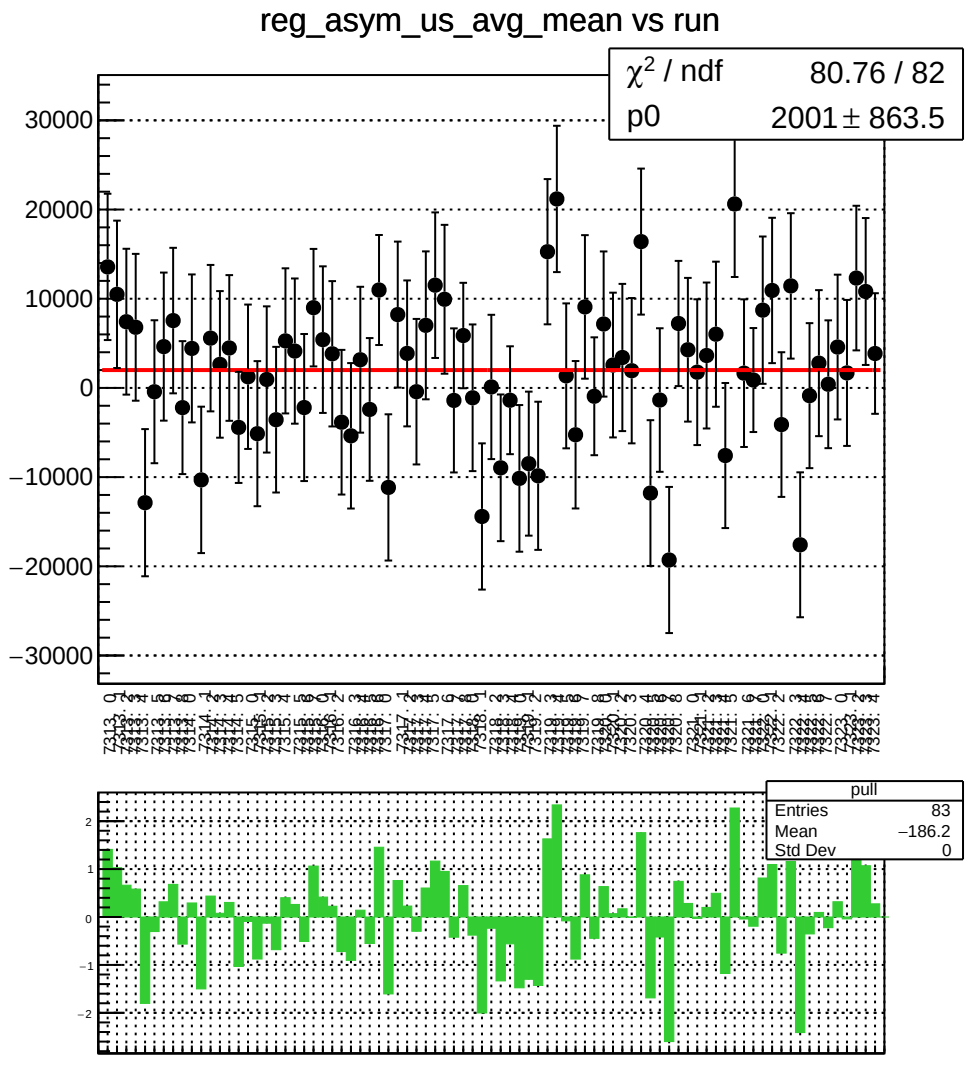
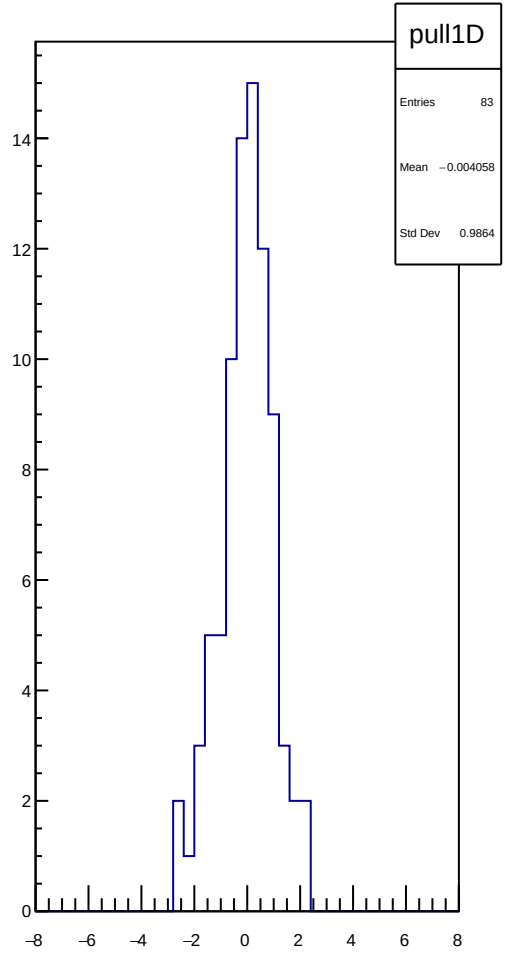
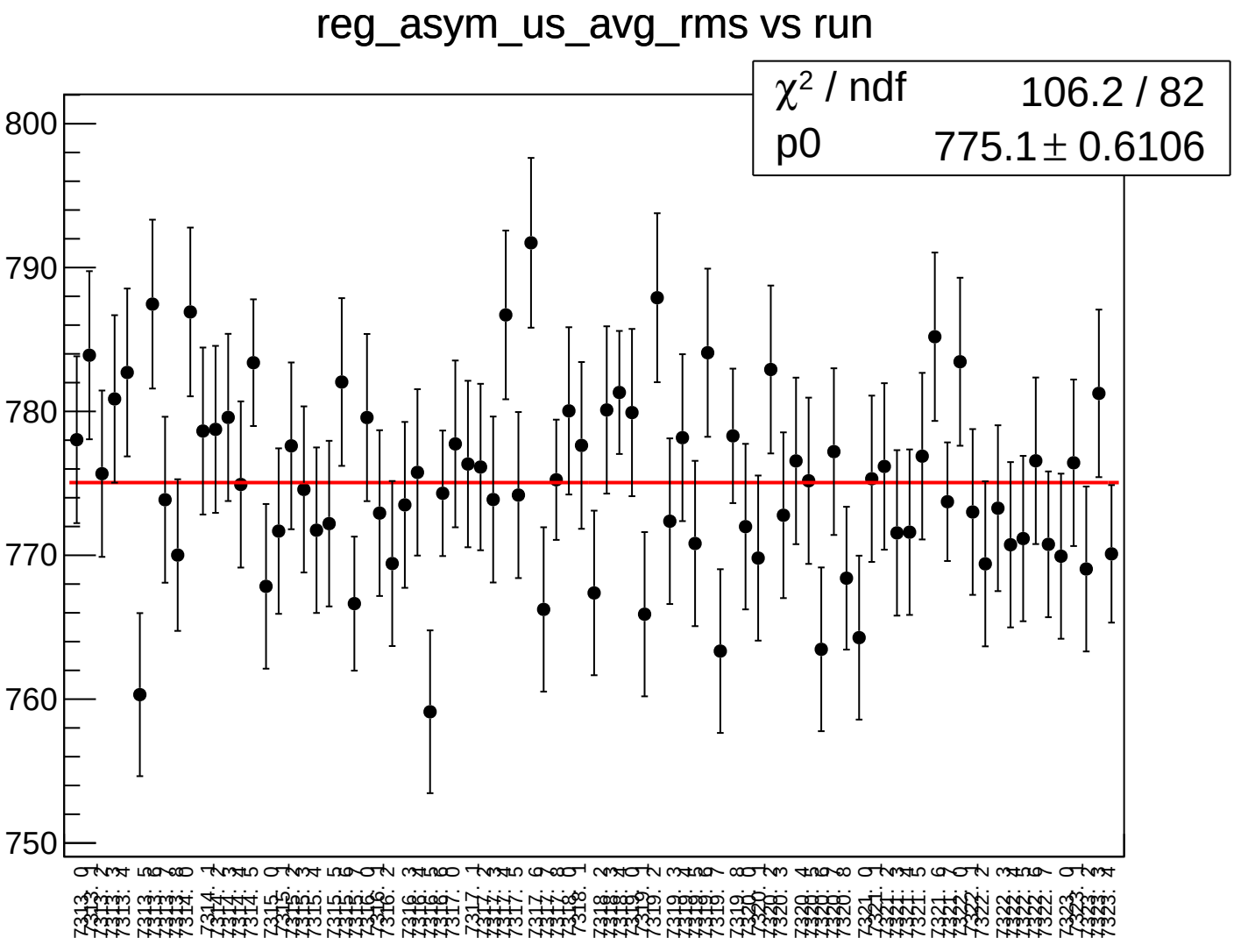
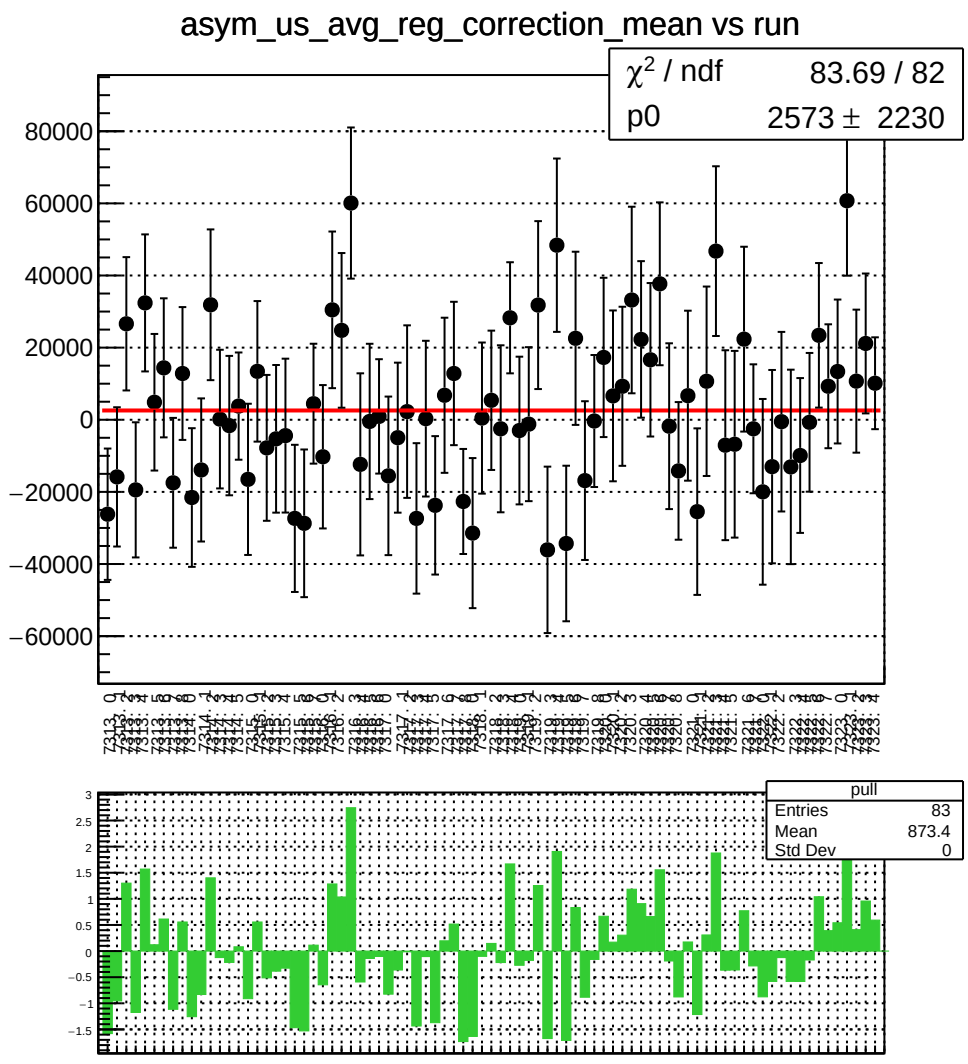
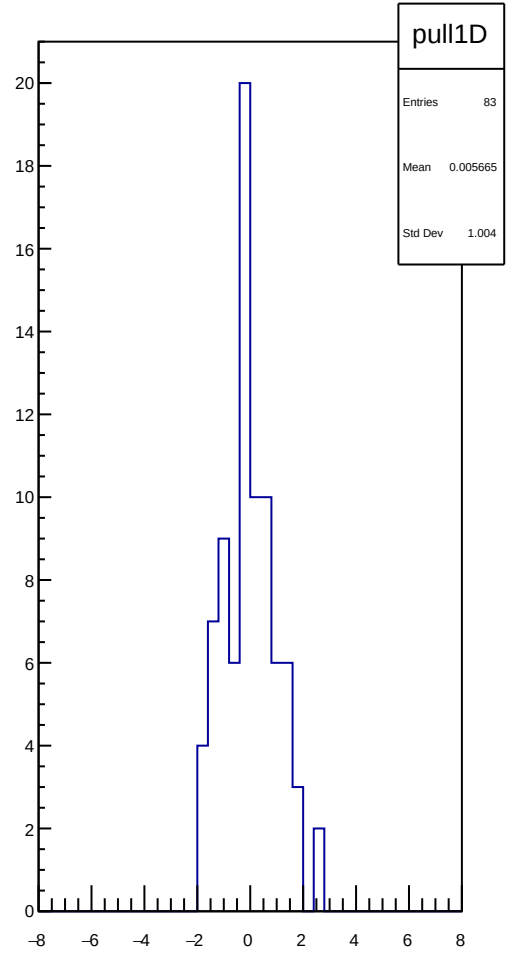
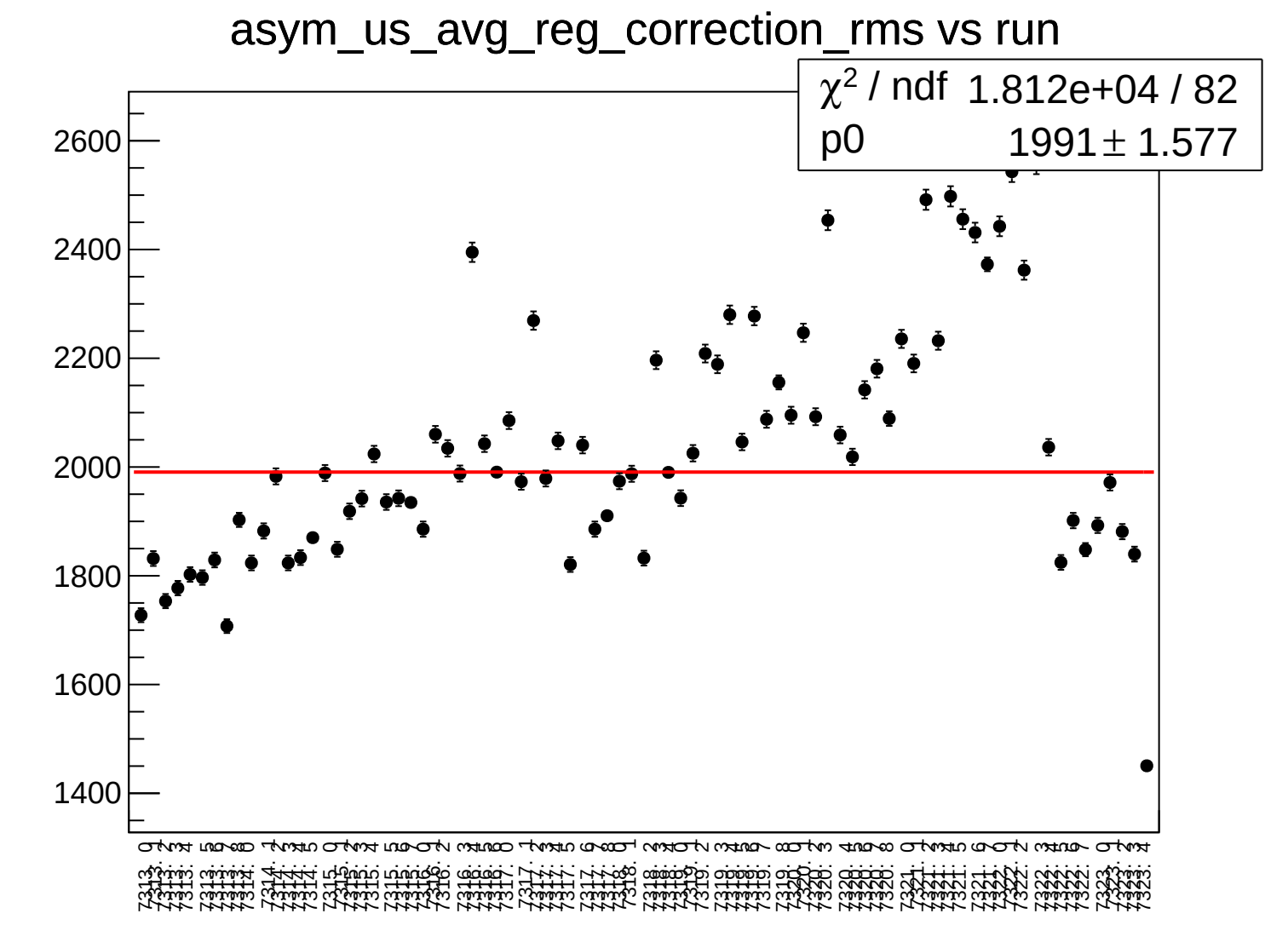

reg_asym_us_avg_mean vs run
χ² / ndf 80.76 / 82
p0 2001 ± 863.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −186.2
Std Dev 0
2
1
0
−1
−2

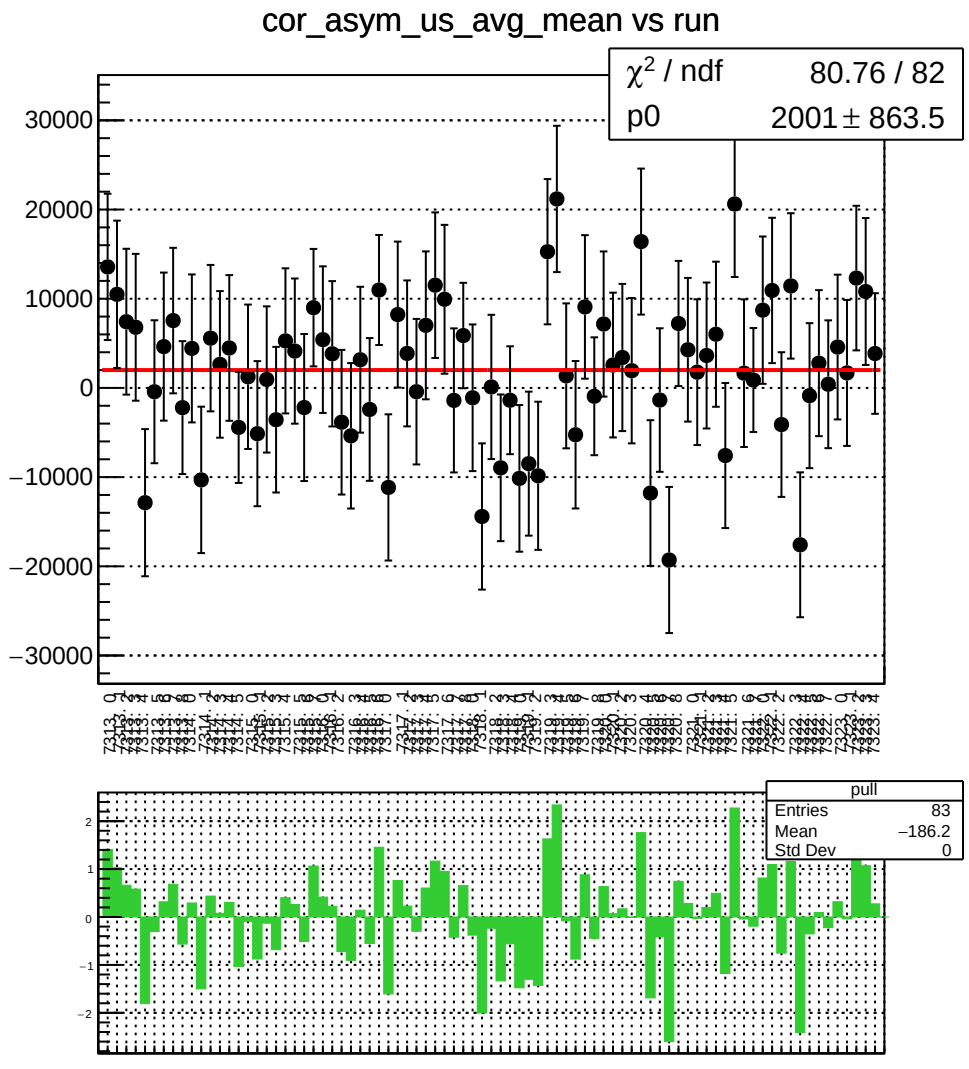

pull1D
Entries 83
Mean −0.004058
Std Dev 0.9864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

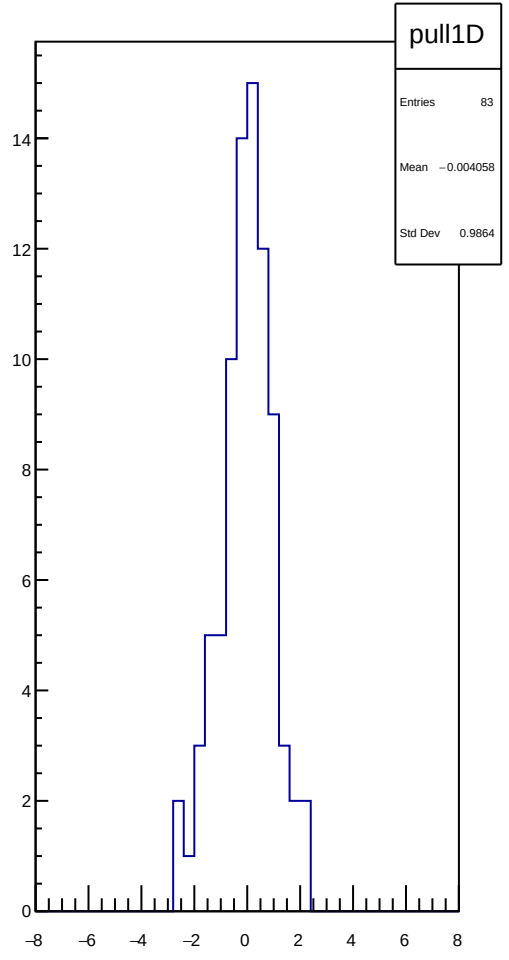

reg_asym_us_avg_rms vs run
χ² / ndf 106.2 / 82
p0 775.1 ± 0.6106
800
790
780
770
760
750

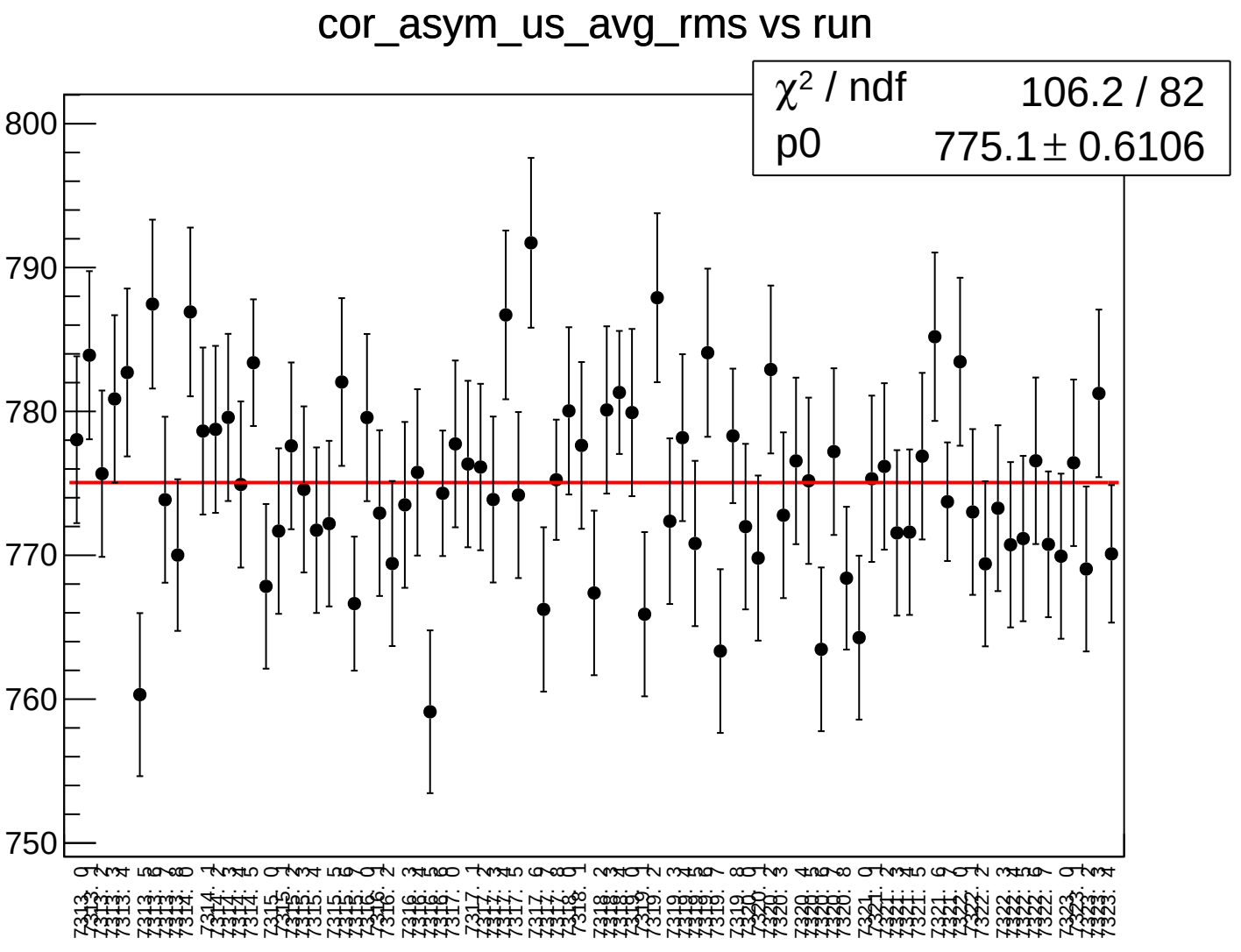

asym_us_avg_reg_correction_mean vs run
χ² / ndf 83.69 / 82
p0 2573 ± 2230
pull
Entries 83
Mean 873.4
Std Dev 0

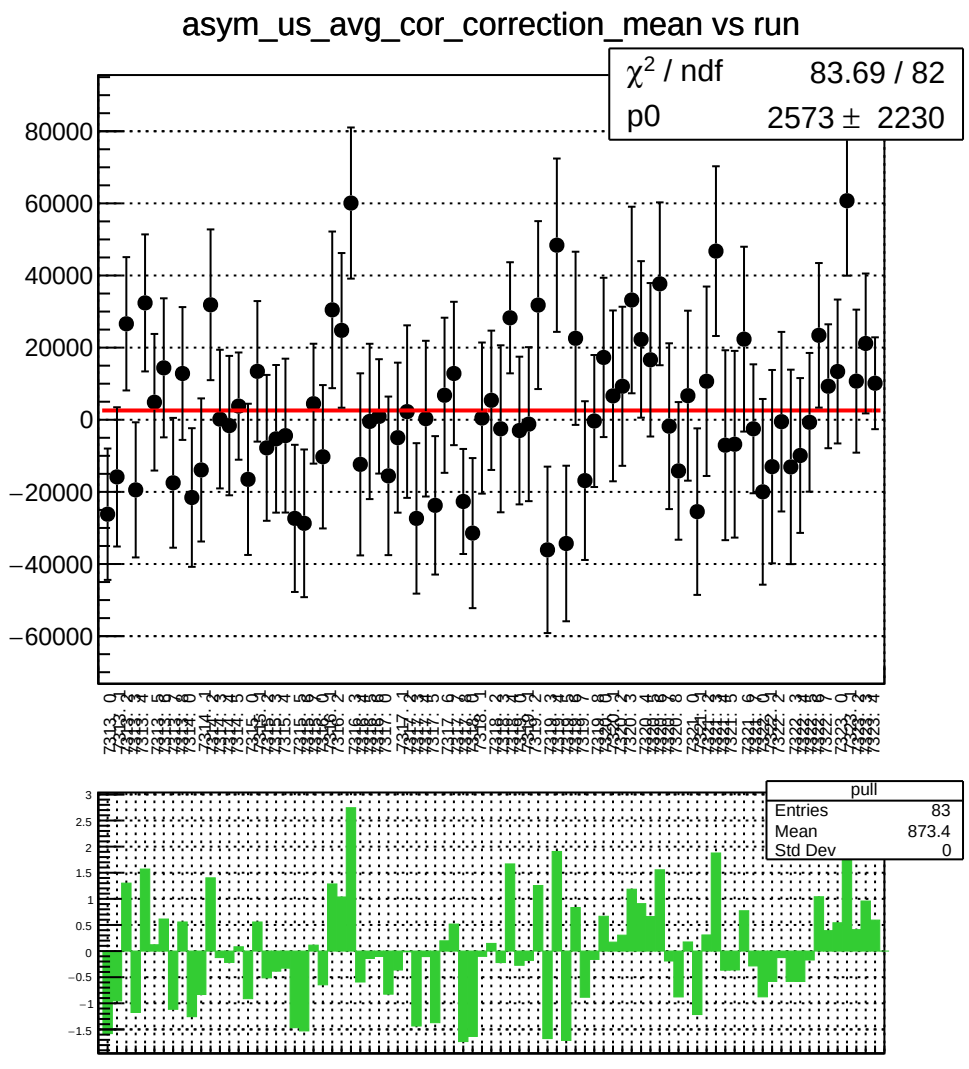

pull1D
Entries 83
Mean 0.005665
Std Dev 1.004

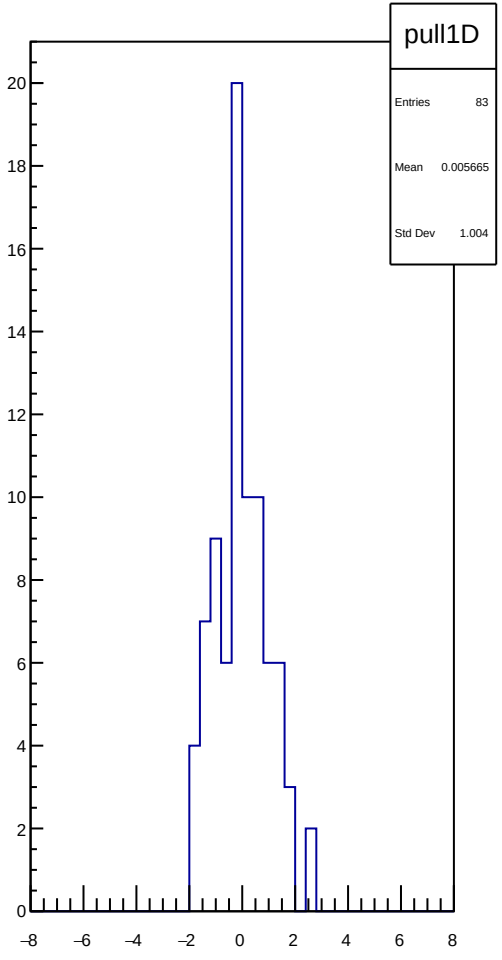

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.812e+04 / 82
p0 1991 ± 1.577
2600
2400
2200
2000
1800
1600
1400

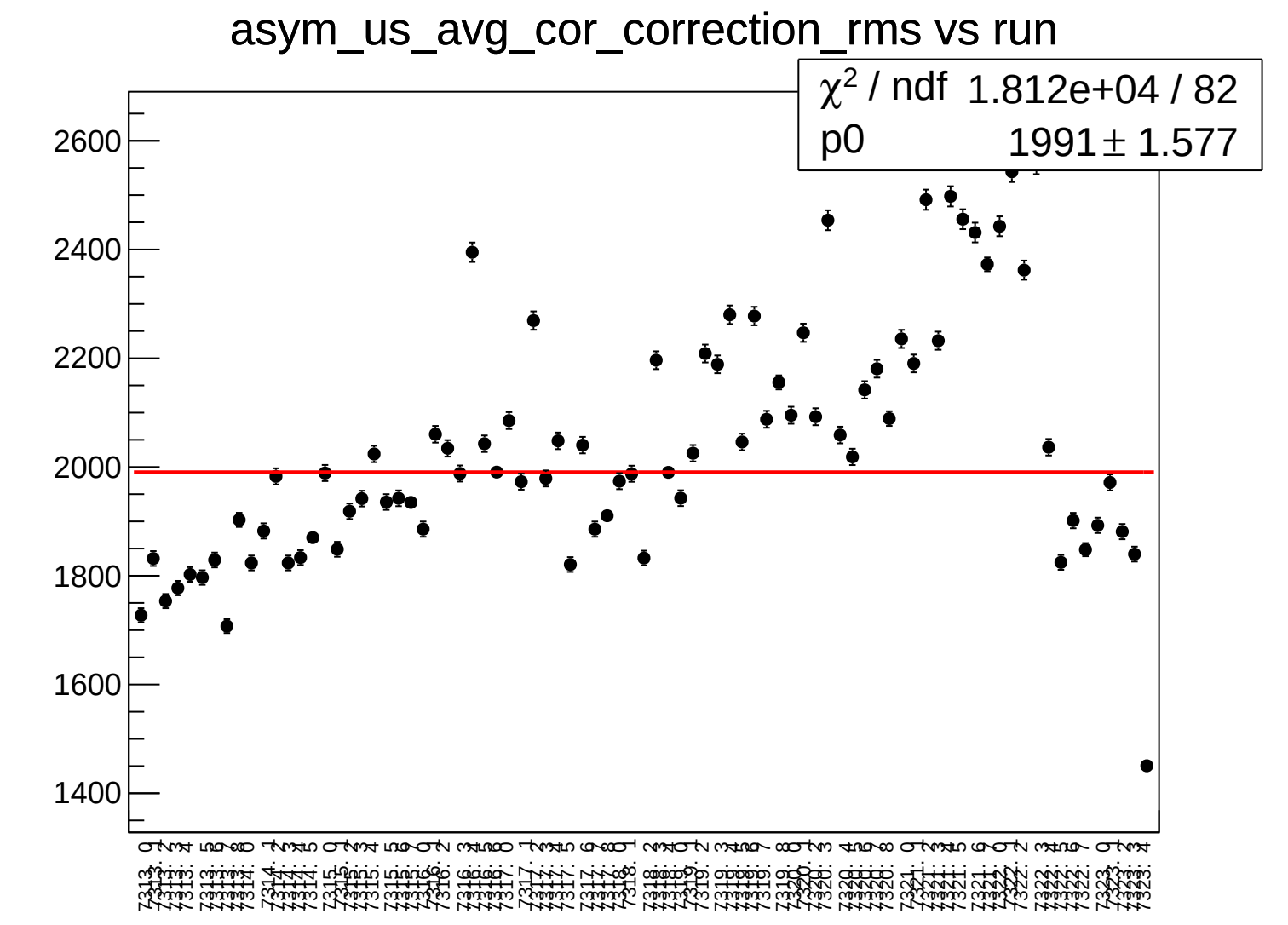

cor_asym_us_avg_mean vs run
χ² / ndf 80.76 / 82
p0 2001 ± 863.5
pull
Entries 83
Mean −186.2
Std Dev 0

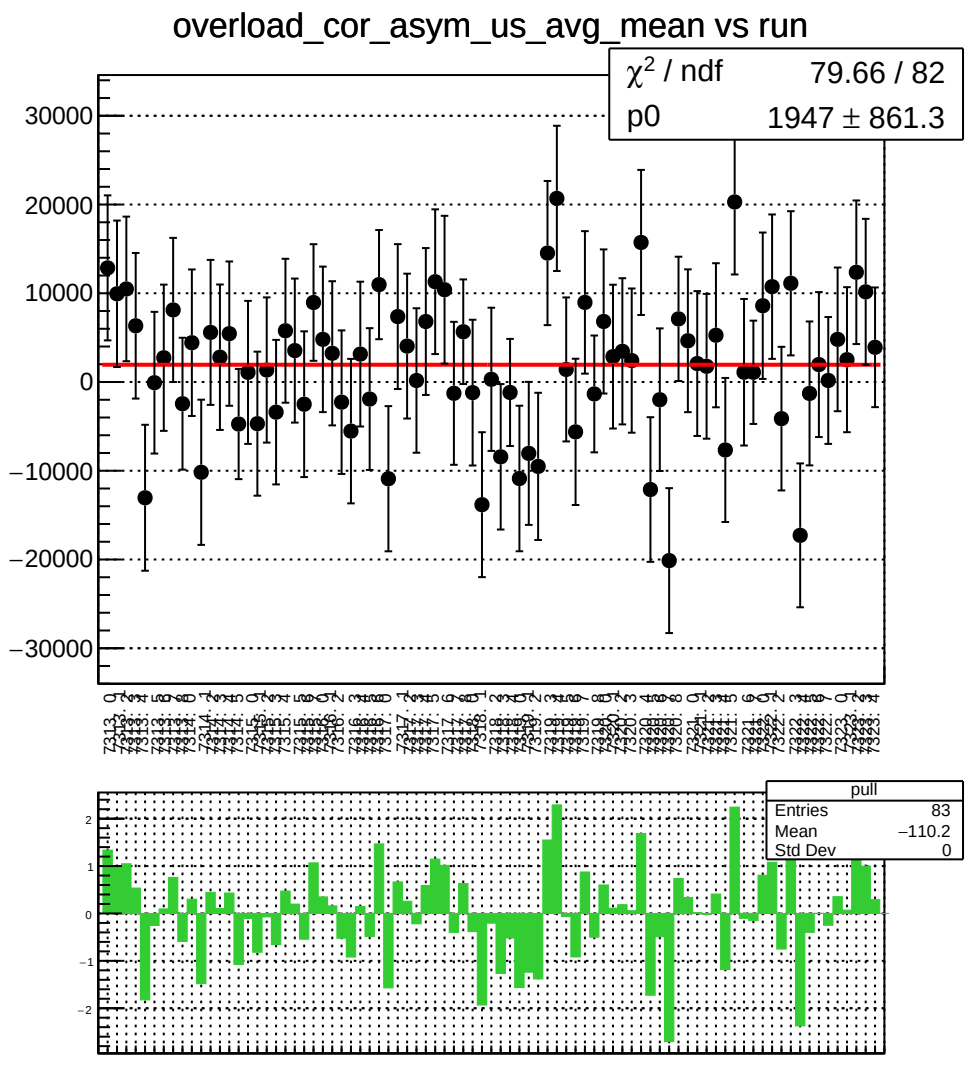

pull1D
Entries 83
Mean −0.004058
Std Dev 0.9864

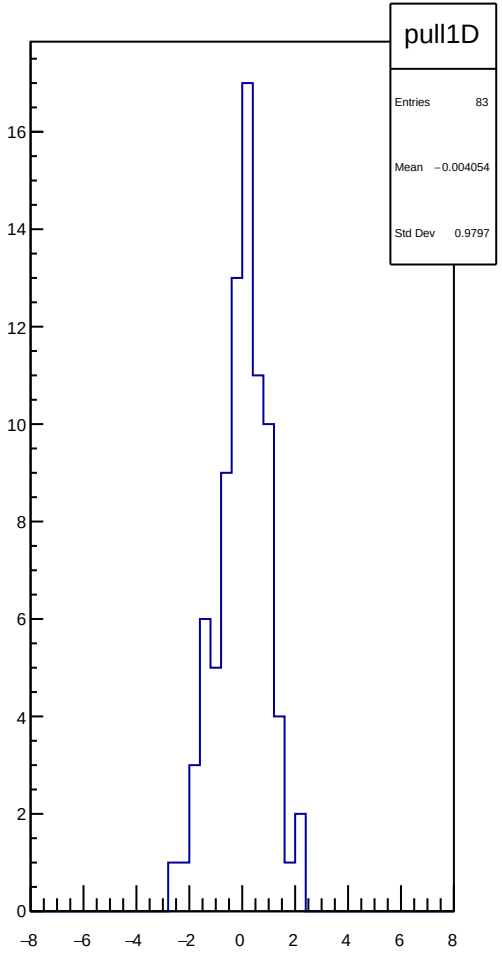

cor_asym_us_avg_rms vs run
χ² / ndf 106.2 / 82
p0 775.1 ± 0.6106
800
790
780
770
760
750

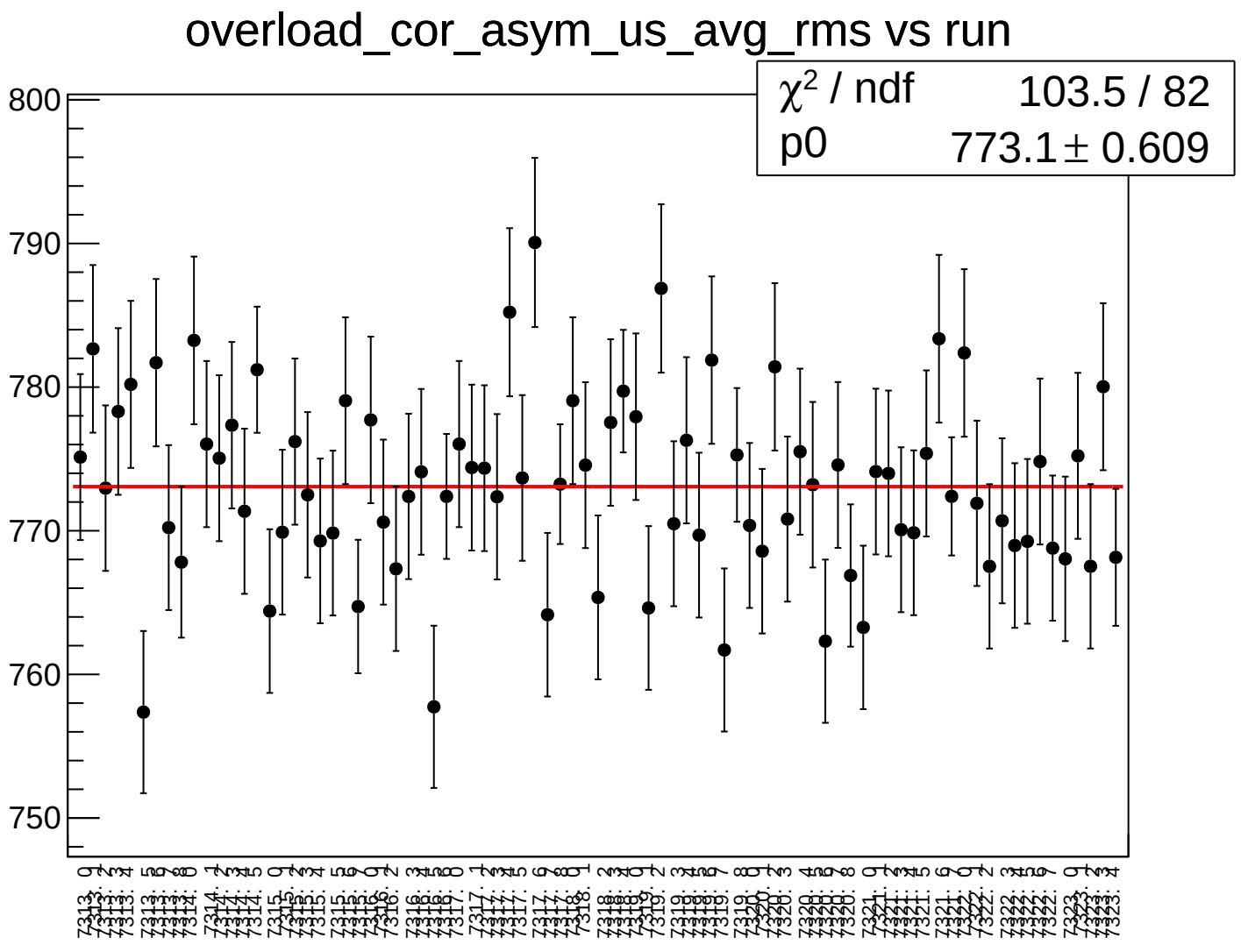

asym_us_avg_cor_correction_mean vs run
χ² / ndf 83.69 / 82
p0 2573 ± 2230
pull
Entries 83
Mean 873.4
Std Dev 0

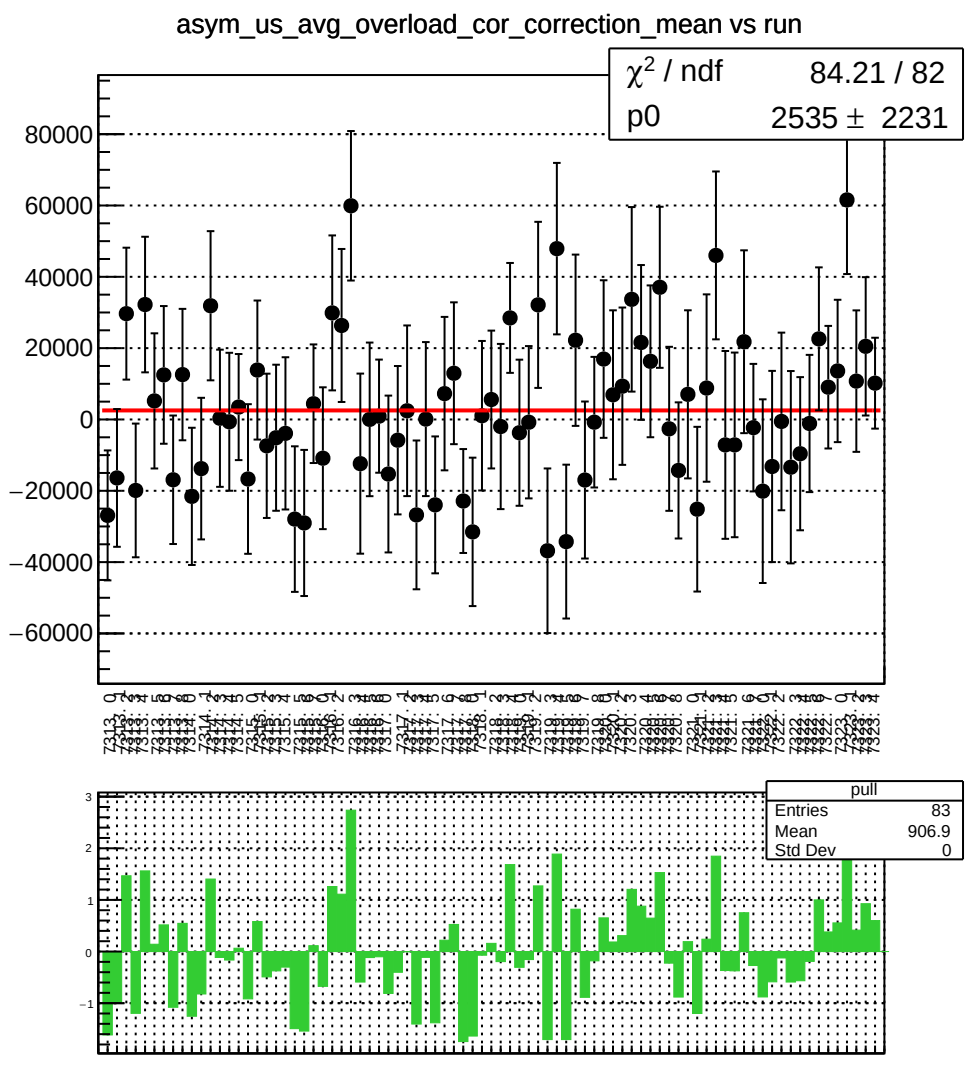

pull1D
Entries 83
Mean 0.005665
Std Dev 1.004

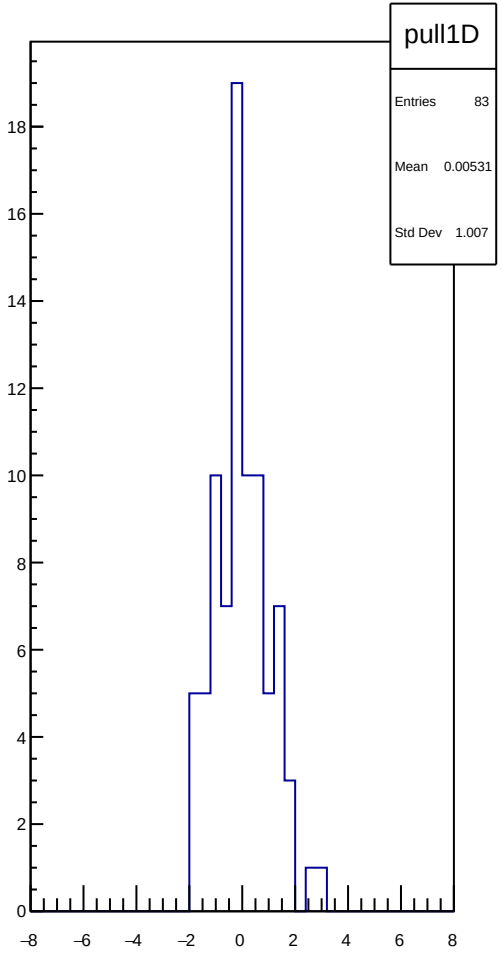

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.812e+04 / 82
p0 1991 ± 1.577
2600
2400
2200
2000
1800
1600
1400

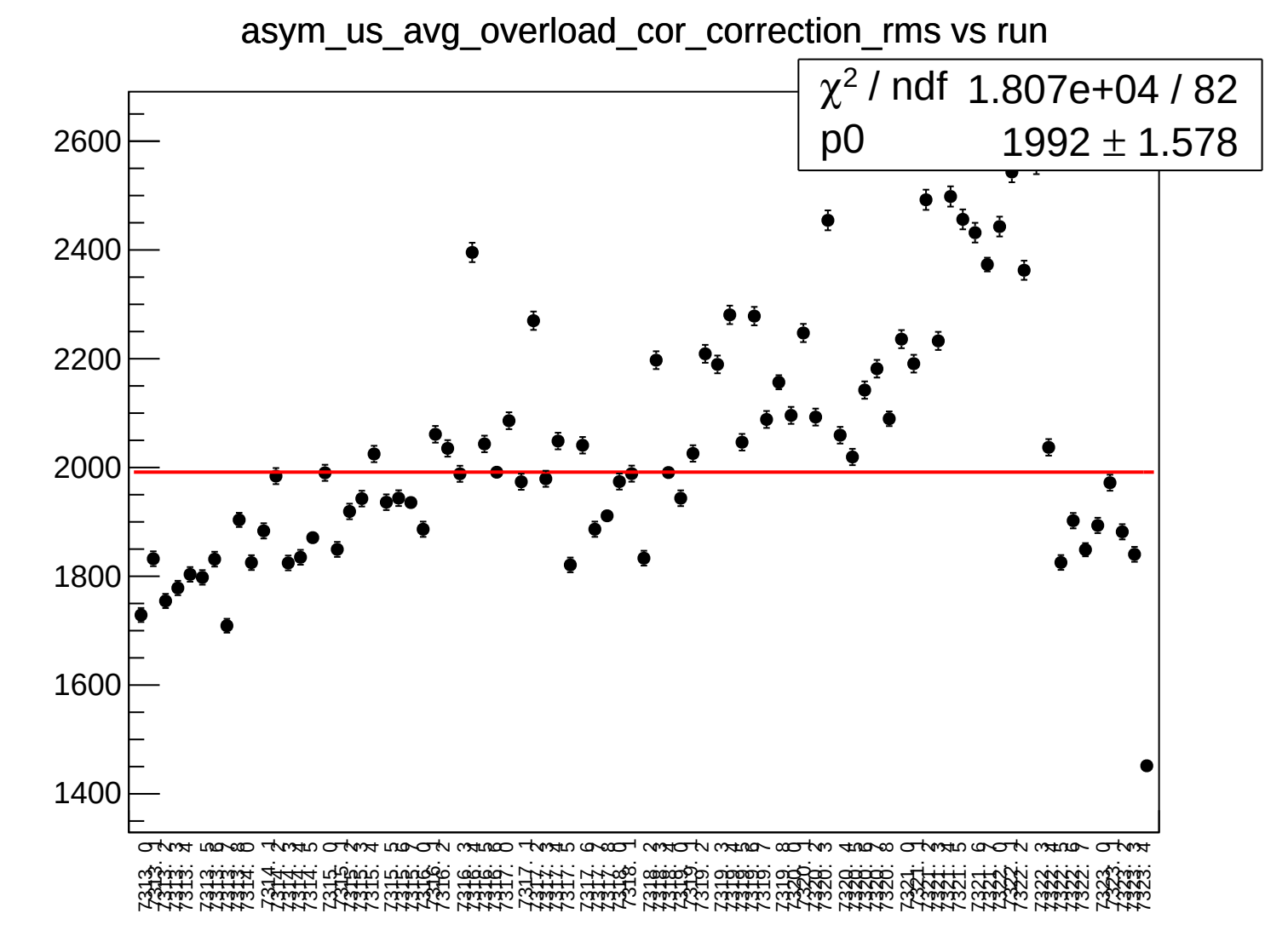

overload_cor_asym_us_avg_mean vs run
χ² / ndf 79.66 / 82
p0 1947 ± 861.3
pull
Entries 83
Mean −110.2
Std Dev 0

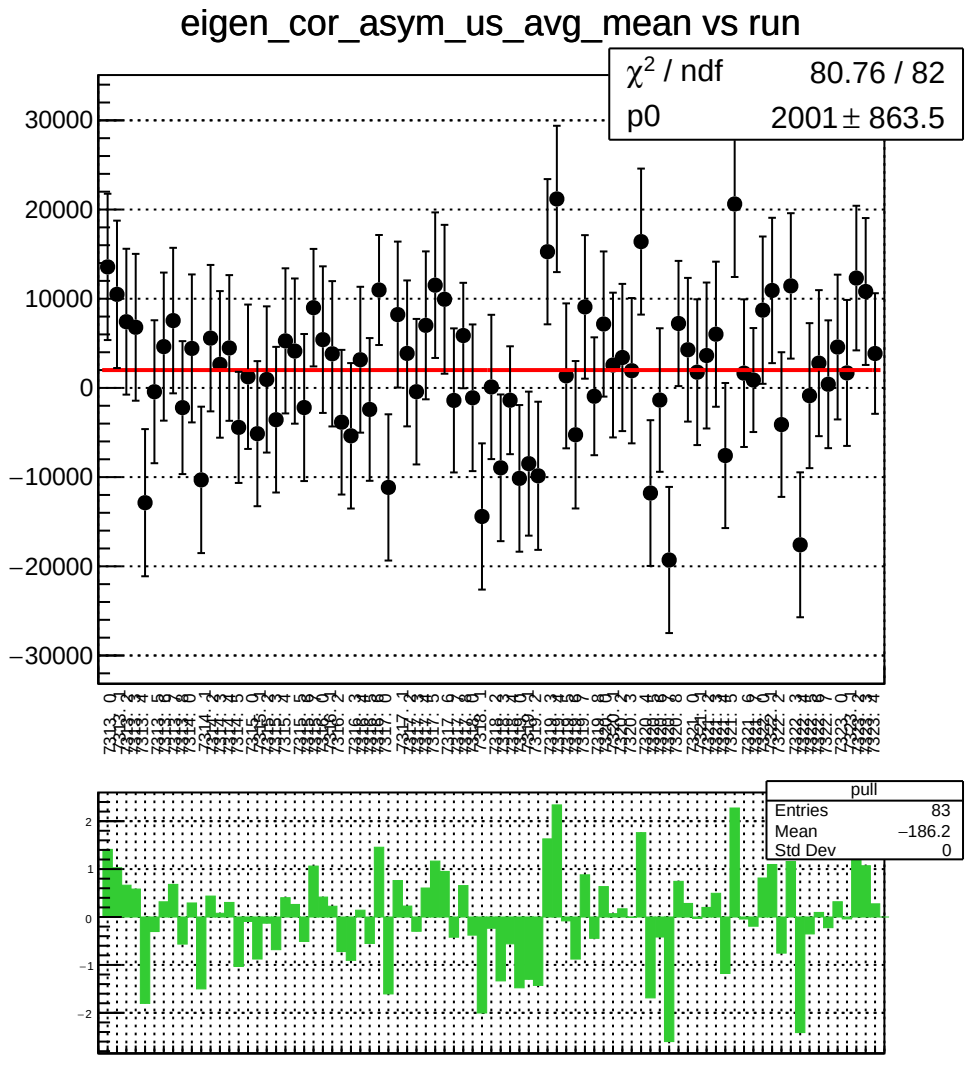

pull1D
Entries 83
Mean −0.004054
Std Dev 0.9797

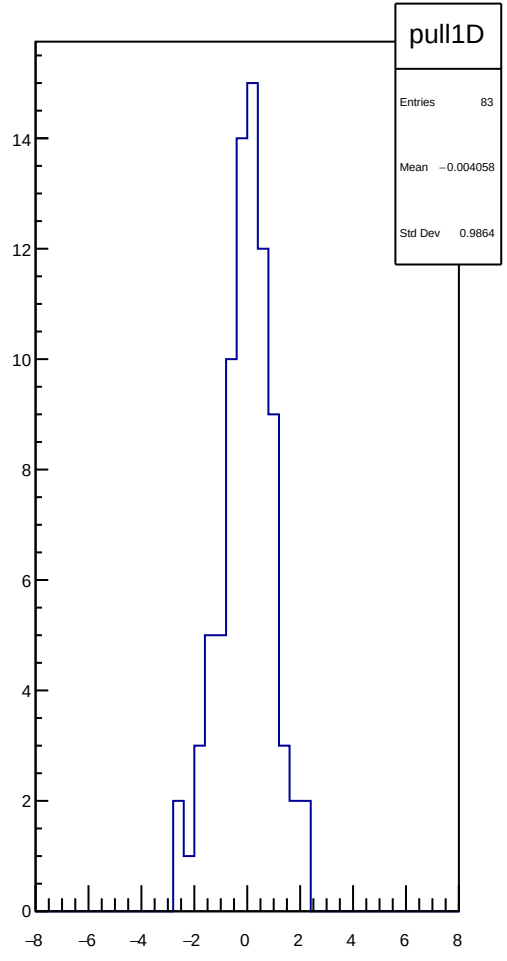

overload_cor_asym_us_avg_rms vs run
χ² / ndf 103.5 / 82
p0 773.1 ± 0.609
800
790
780
770
760
750

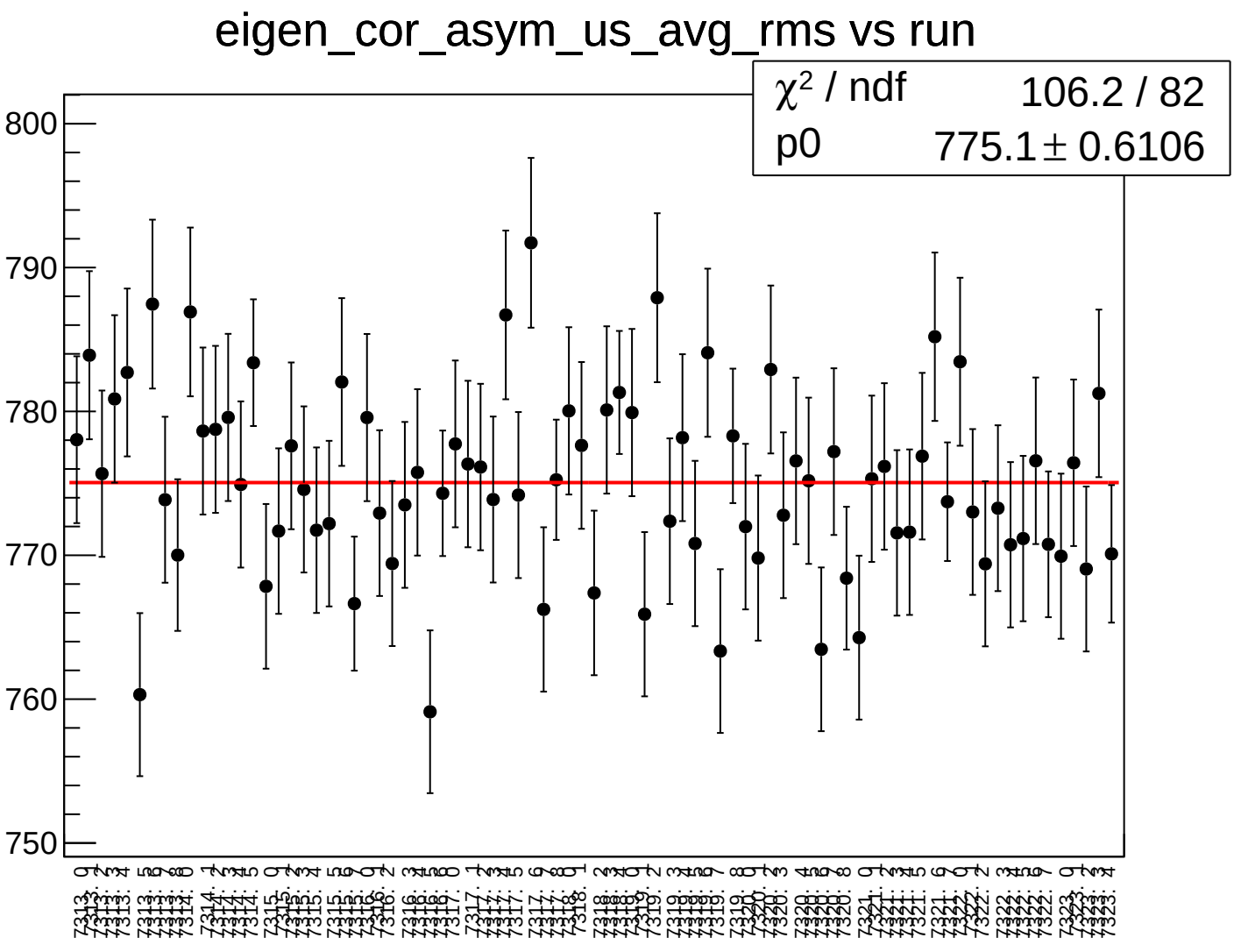

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 84.21 / 82
p0 2535 ± 2231
pull
Entries 83
Mean 906.9
Std Dev 0

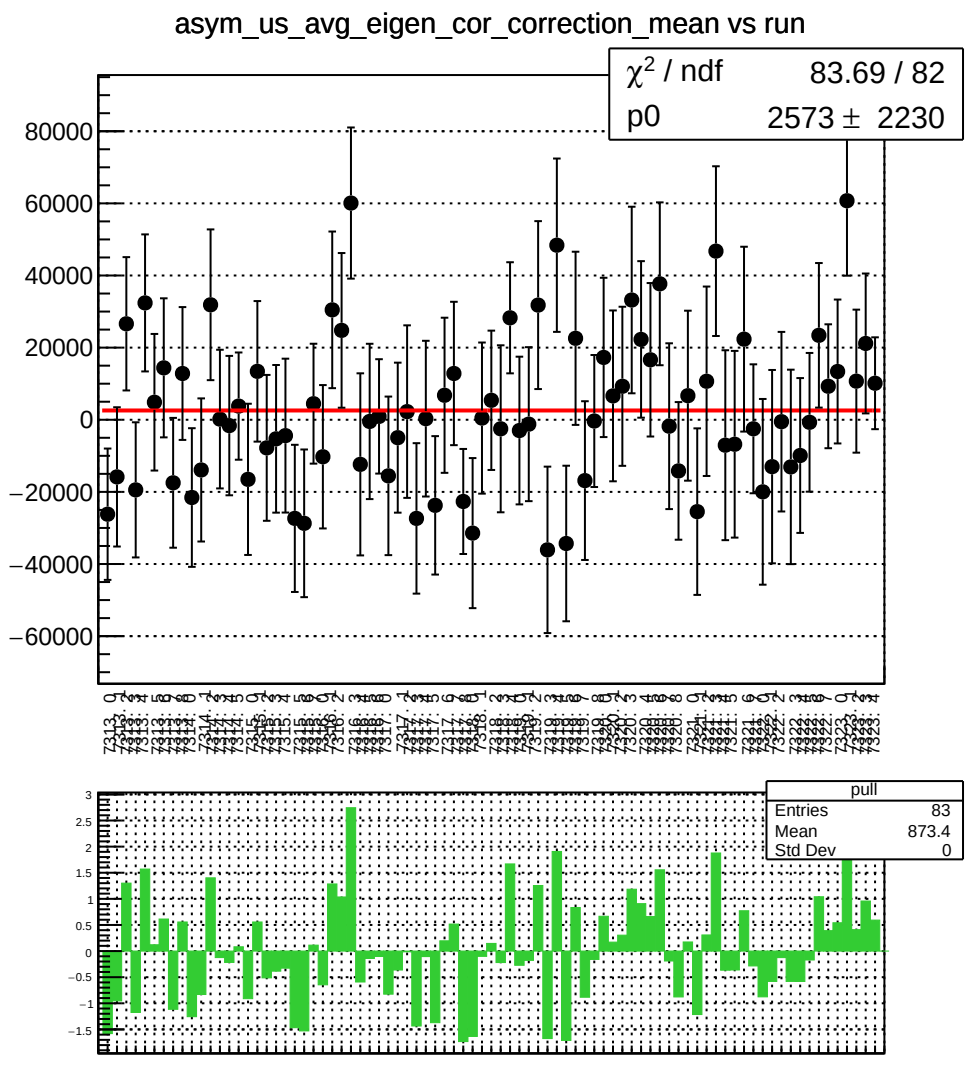

pull1D
Entries 83
Mean 0.00531
Std Dev 1.007

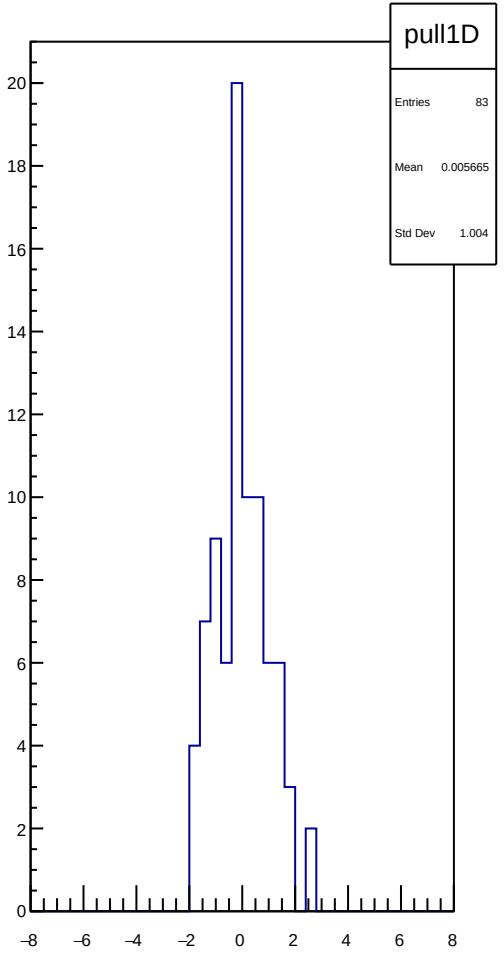

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.807e+04 / 82
p0 1992 ± 1.578
2600
2400
2200
2000
1800
1600
1400

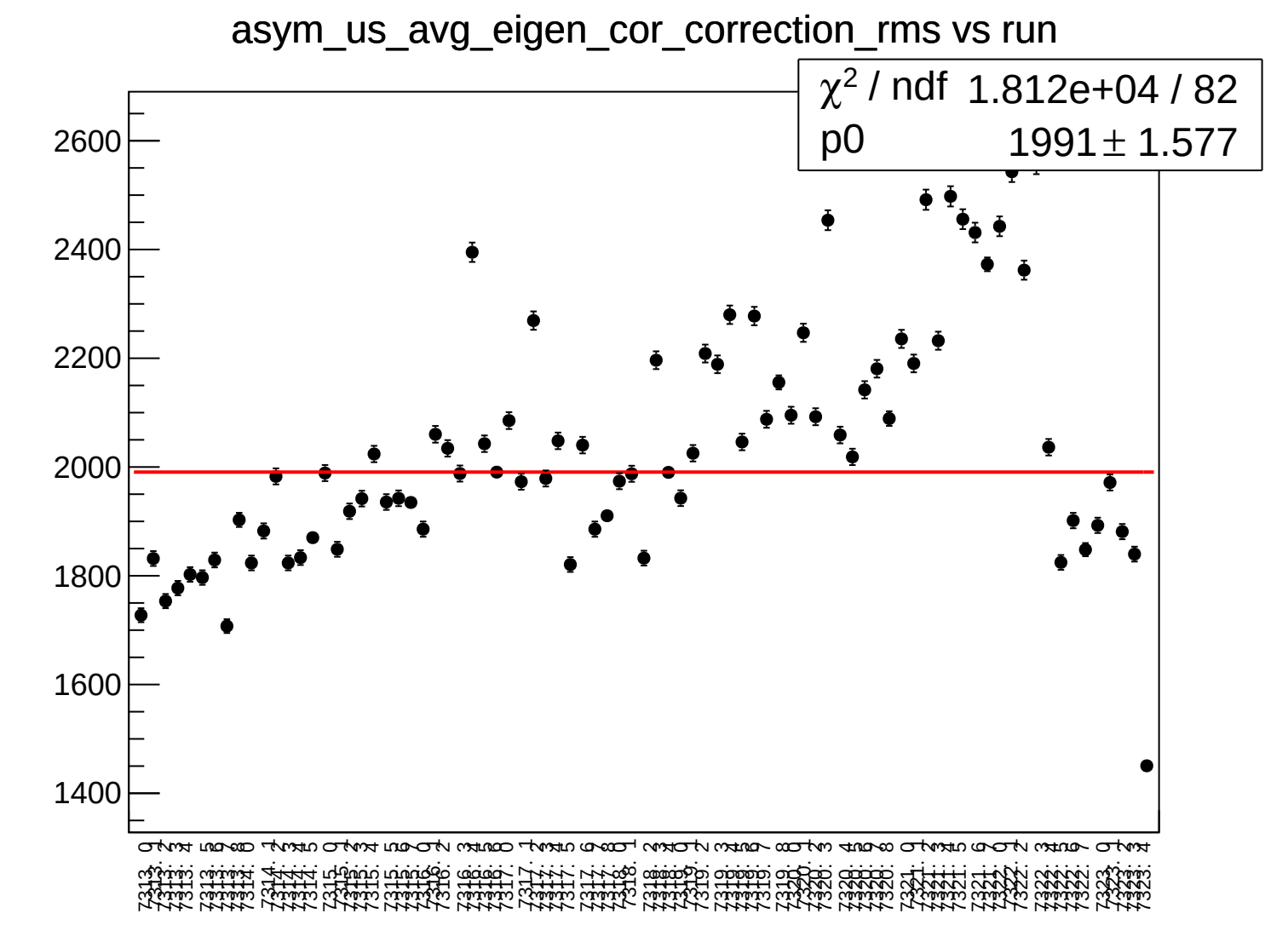

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 80.76 / 82
p0 2001 ± 863.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −186.2
Std Dev 0
2
1
0
−1
−2

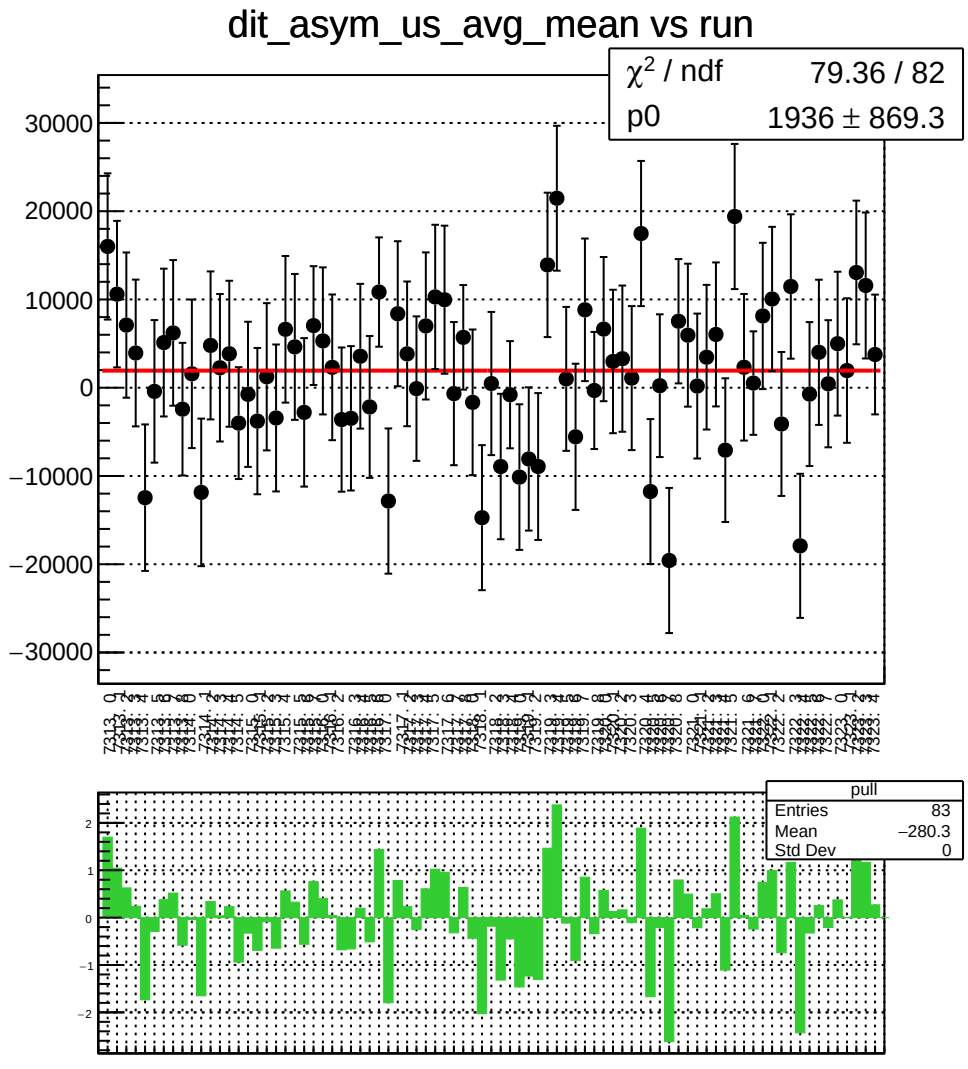

pull1D
Entries 83
Mean −0.004058
Std Dev 0.9864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

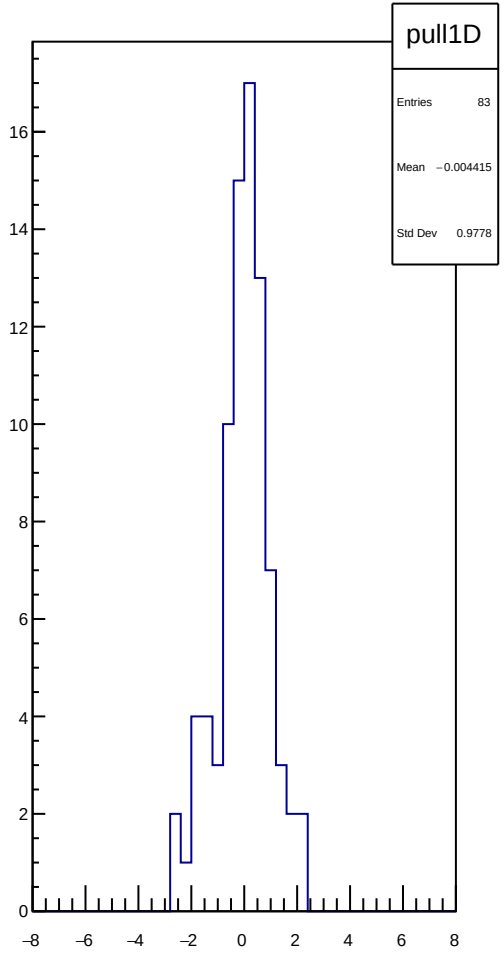

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 106.2 / 82
p0 775.1 ± 0.6106
800
790
780
770
760
750

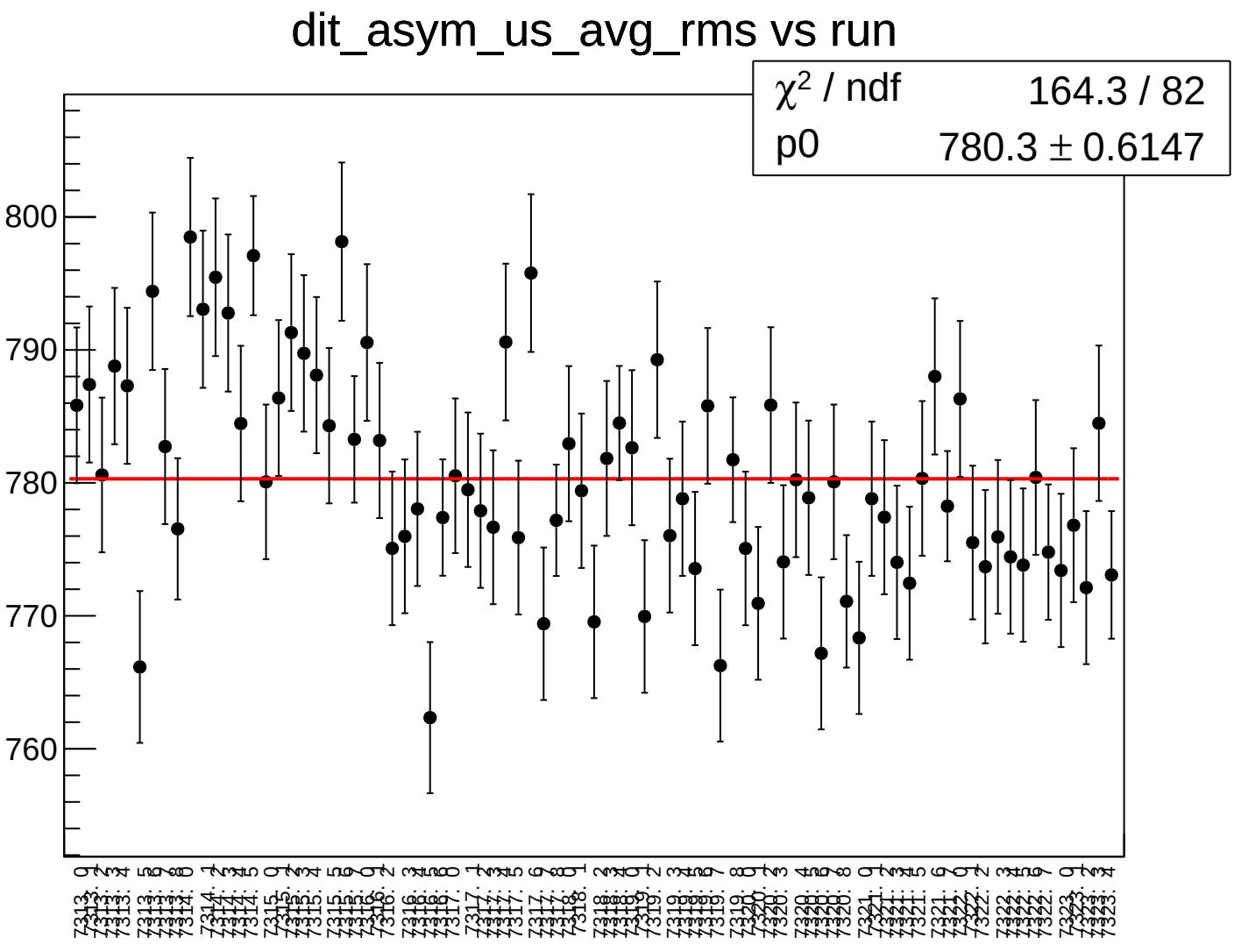

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.69 / 82
p0 2573 ± 2230
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 873.4
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

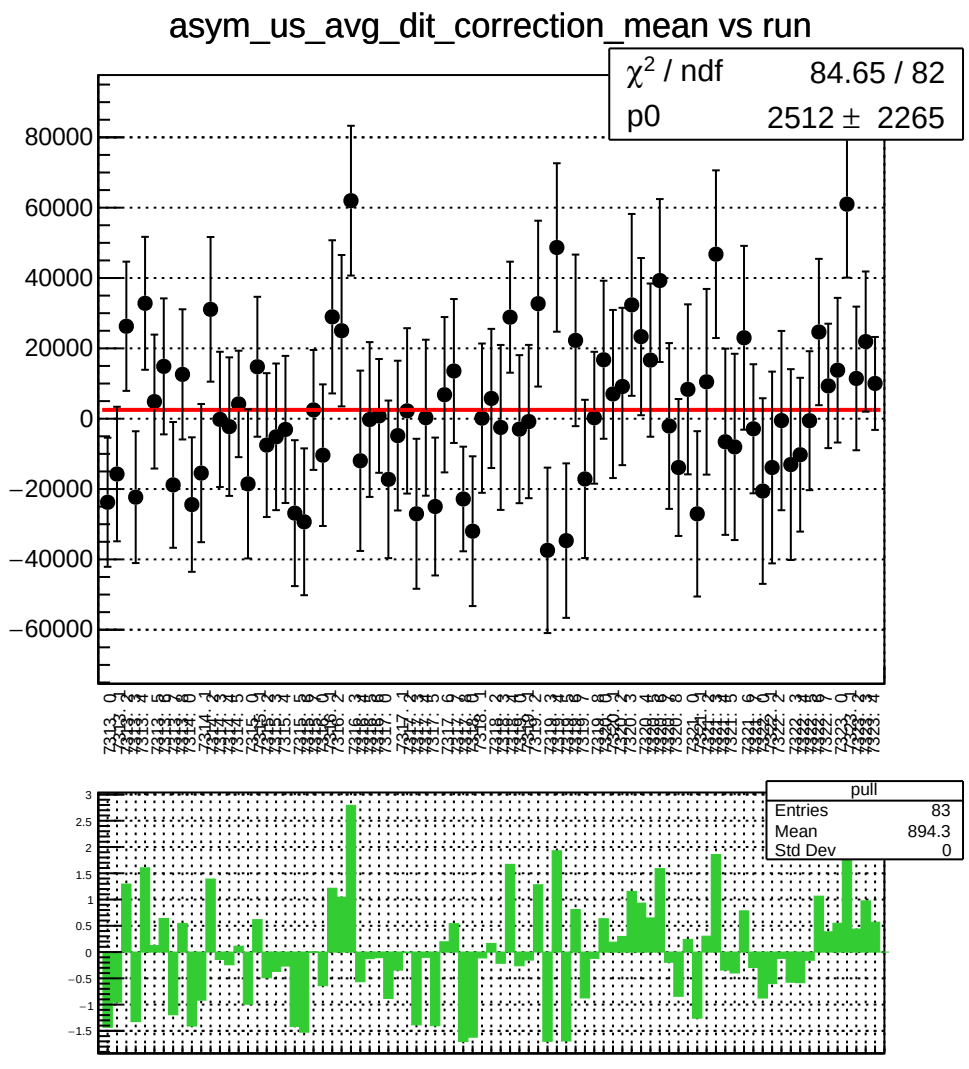

pull1D
Entries 83
Mean 0.005665
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

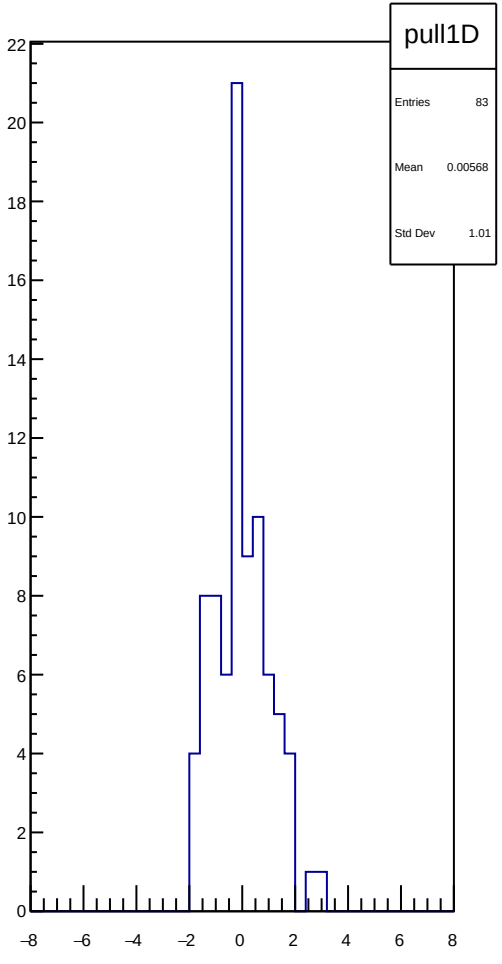

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.812e+04 / 82
p0 1991 ± 1.577
2600
2400
2200
2000
1800
1600
1400

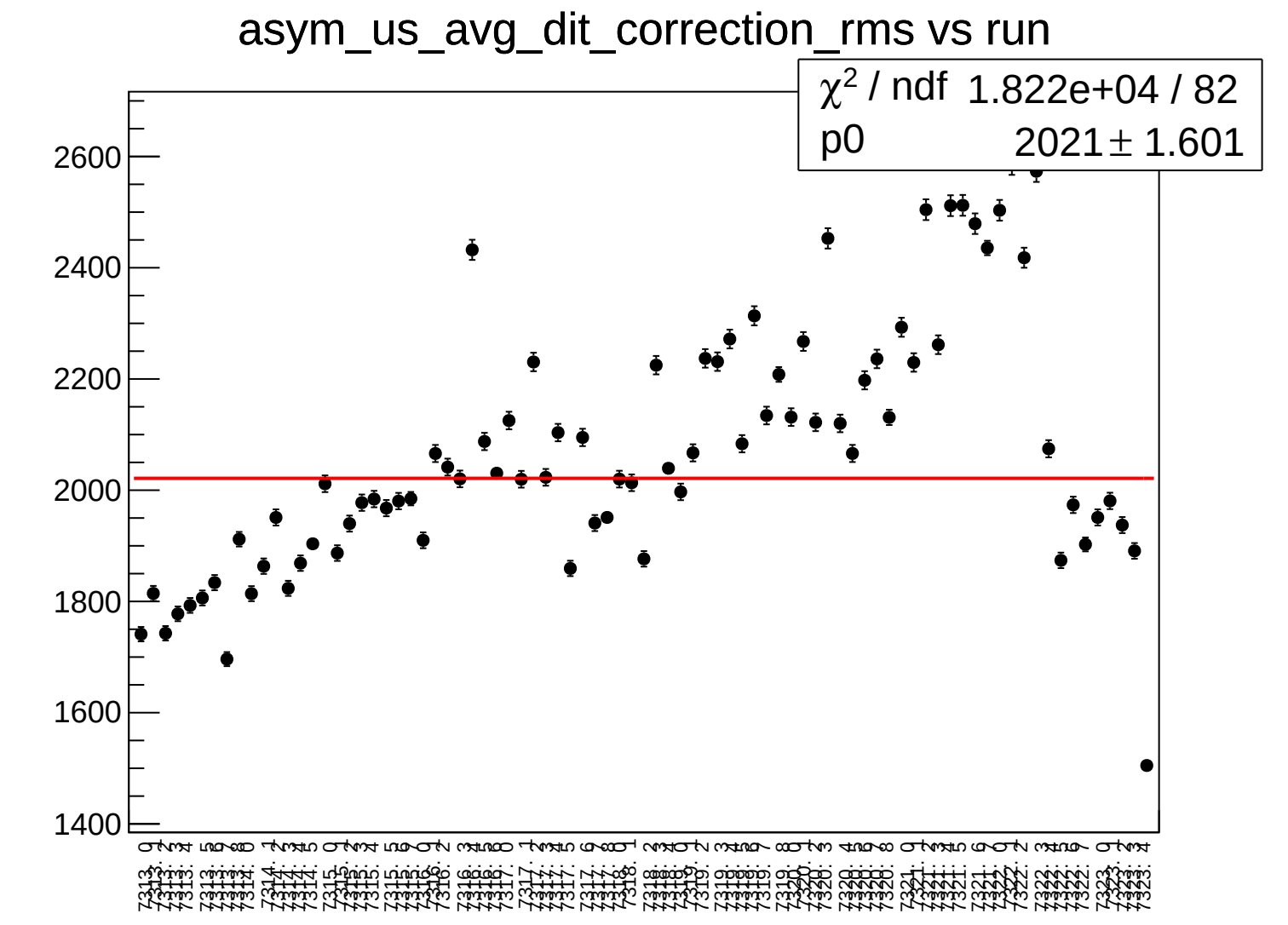

dit_asym_us_avg_mean vs run
χ² / ndf 79.36 / 82
p0 1936 ± 869.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −280.3
Std Dev 0
2
1
0
−1
−2

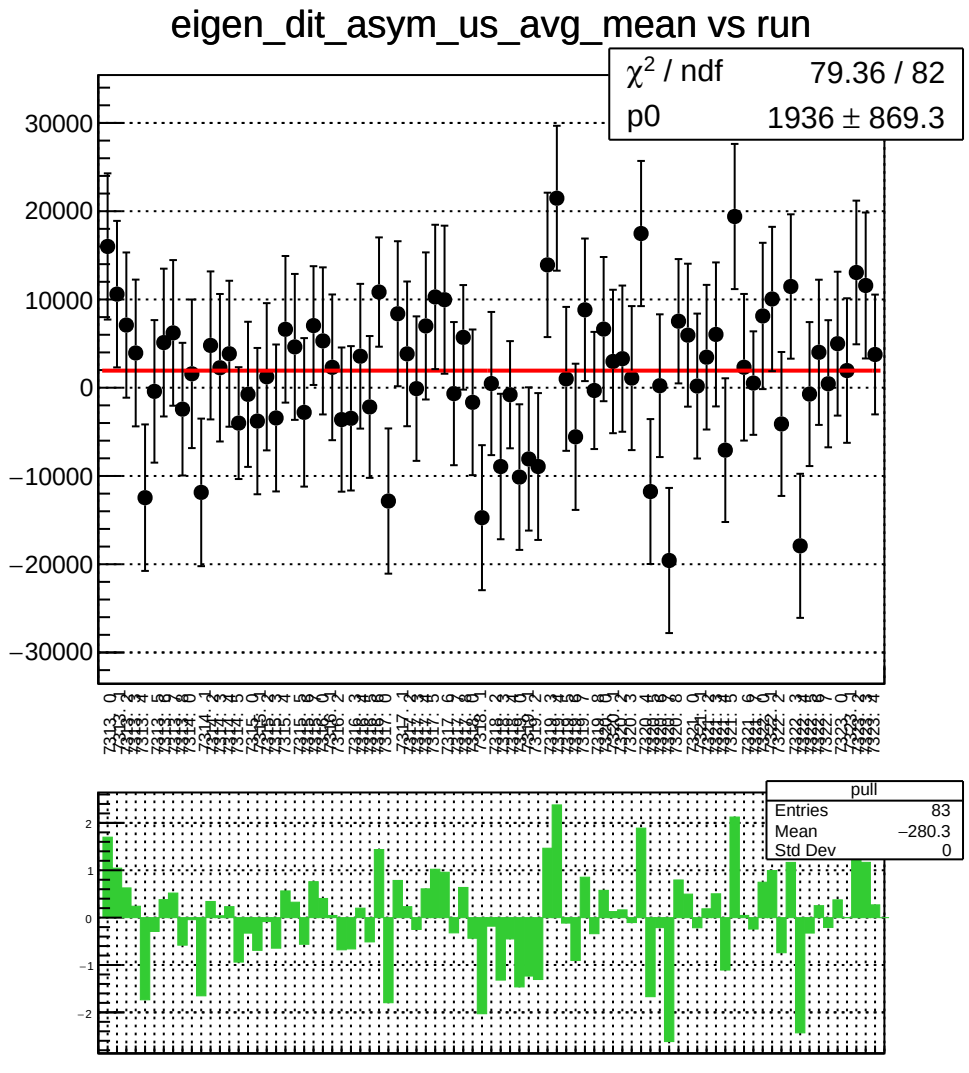

pull1D
Entries 83
Mean −0.004415
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

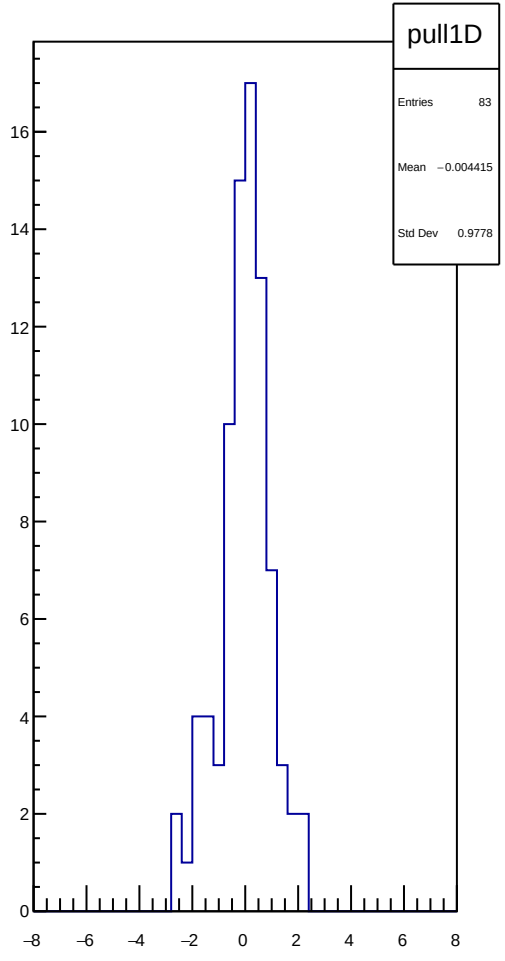

dit_asym_us_avg_rms vs run
χ² / ndf 164.3 / 82
p0 780.3 ± 0.6147
800
790
780
770
760

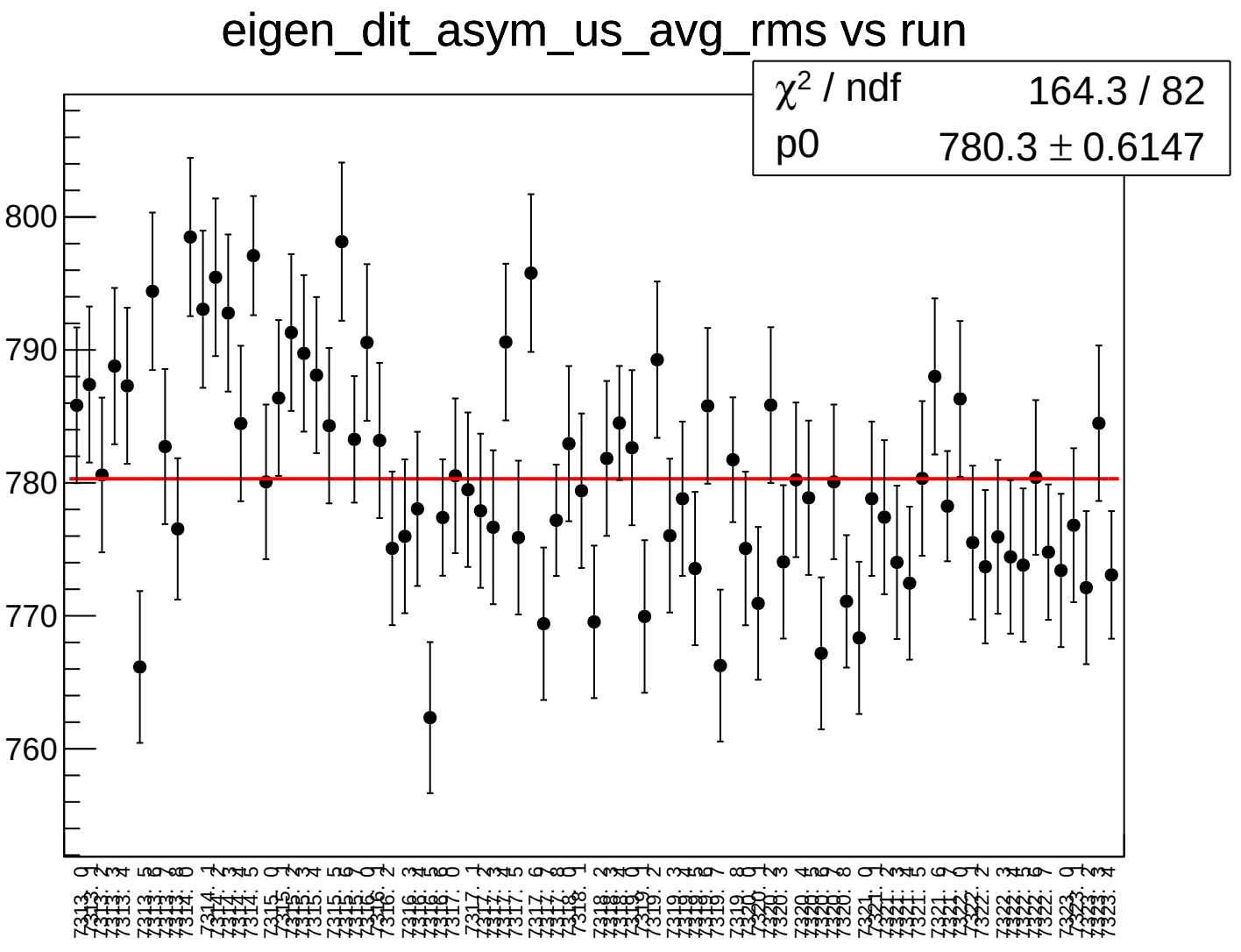

asym_us_avg_dit_correction_mean vs run
χ² / ndf 84.65 / 82
p0 2512 ± 2265
pull
Entries 83
Mean 894.3
Std Dev 0

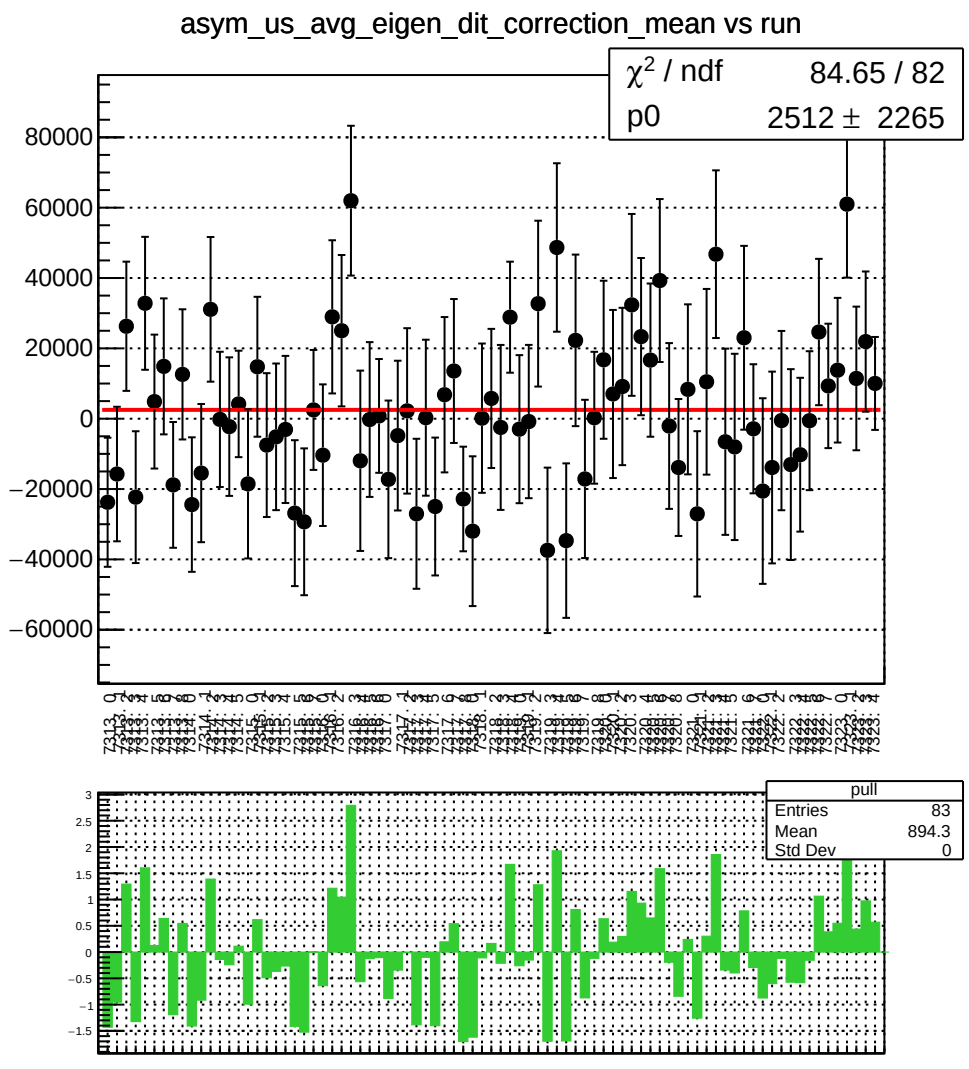

pull1D
Entries 83
Mean 0.00568
Std Dev 1.01

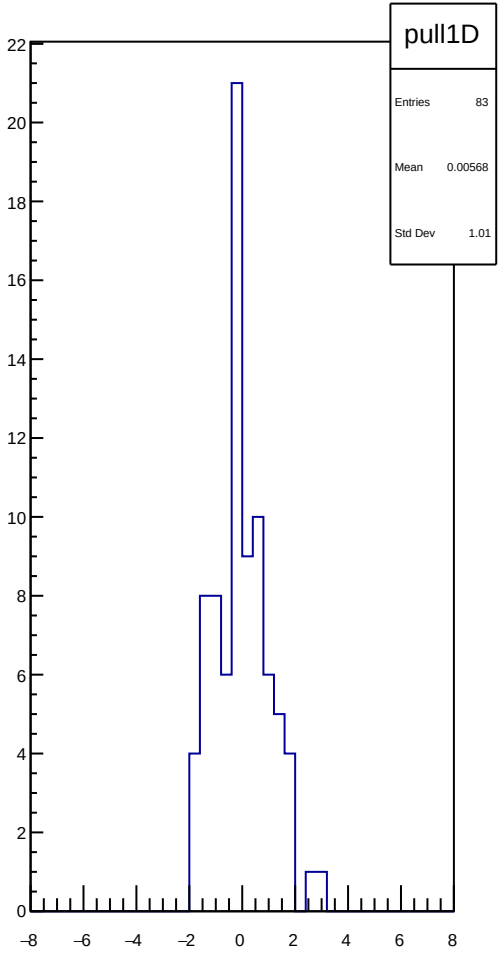

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1.822e+04 / 82
p0 2021 ± 1.601
2600
2400
2200
2000
1800
1600
1400

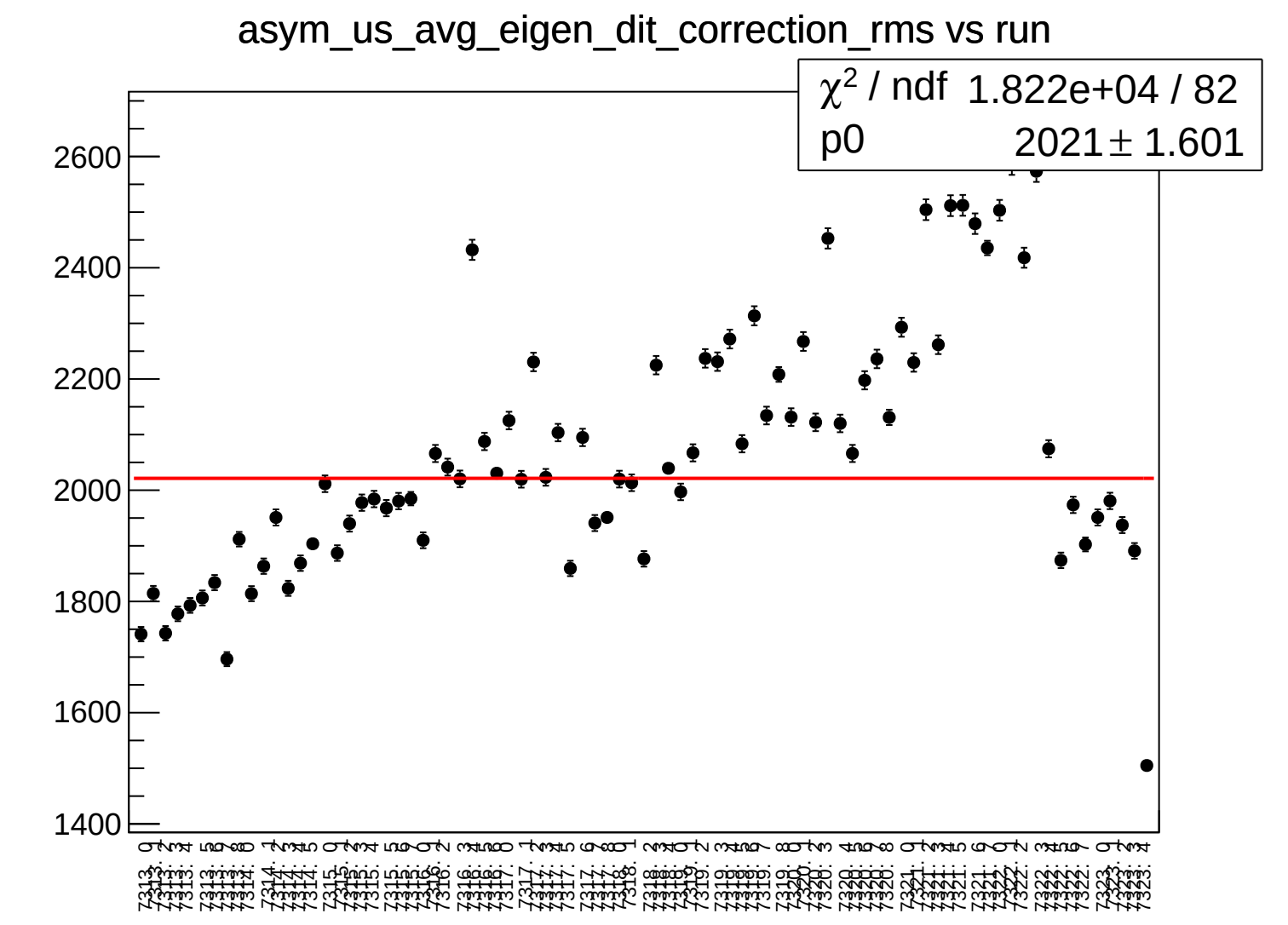

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 79.36 / 82
p0 1936 ± 869.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −280.3
Std Dev 0
2
1
0
−1
−2

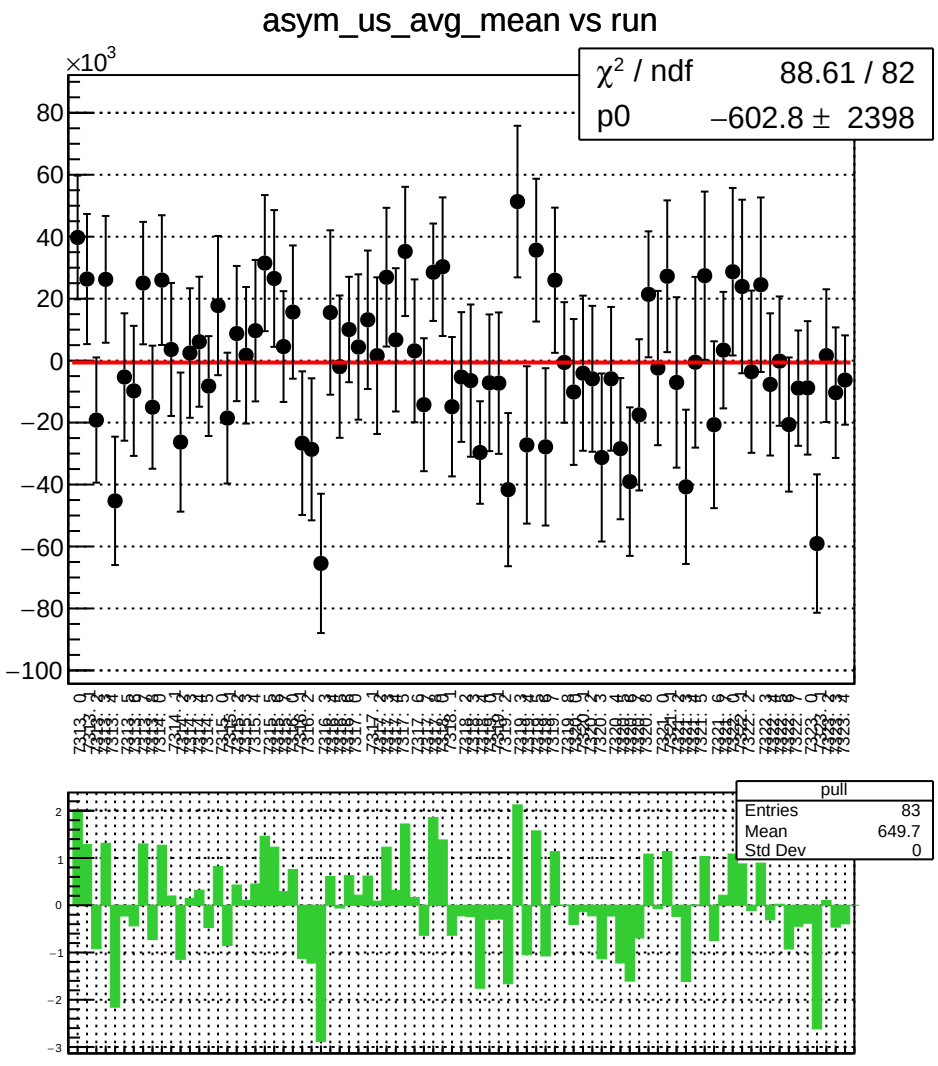

pull1D
Entries 83
Mean −0.004415
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

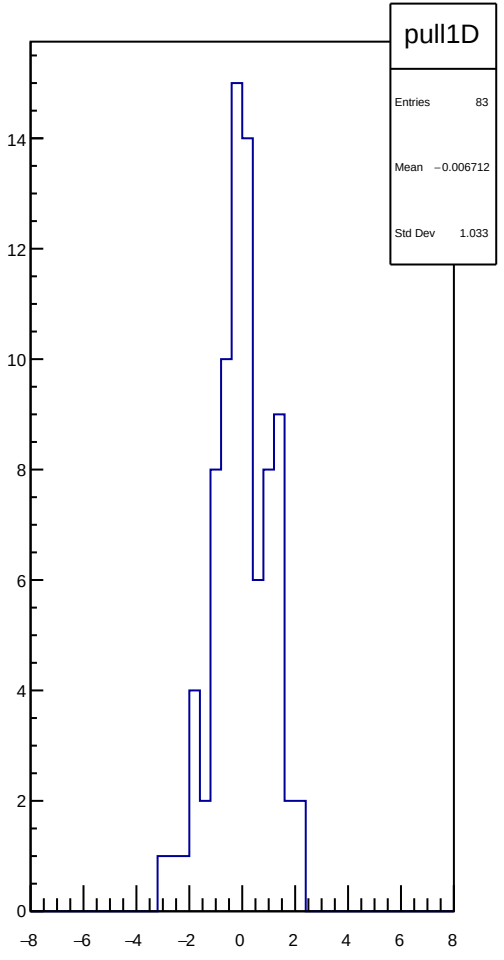

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 164.3 / 82
p0 780.3 ± 0.6147
800
790
780
770
760

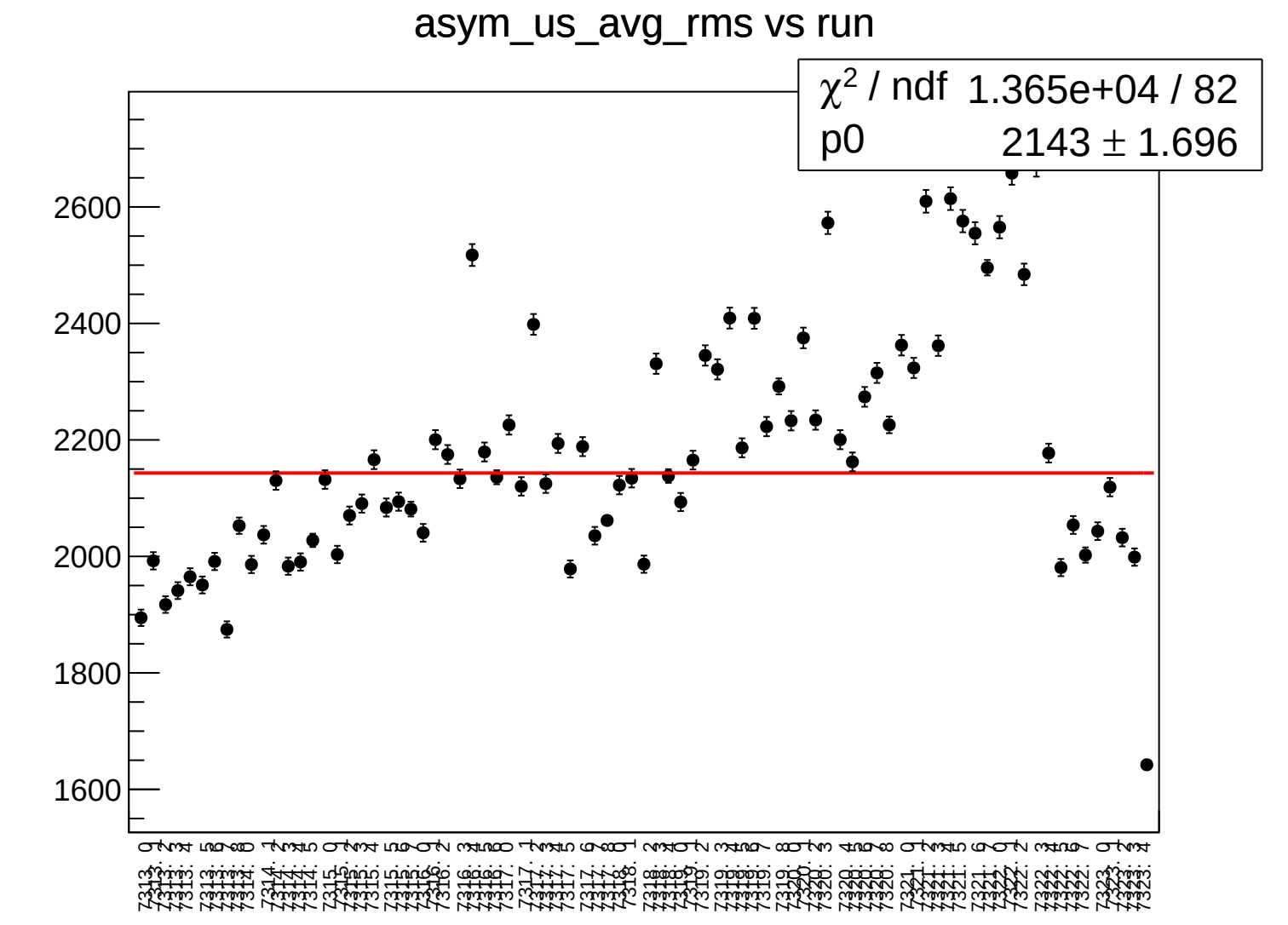

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.65 / 82
p0 2512 ± 2265
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 894.3
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

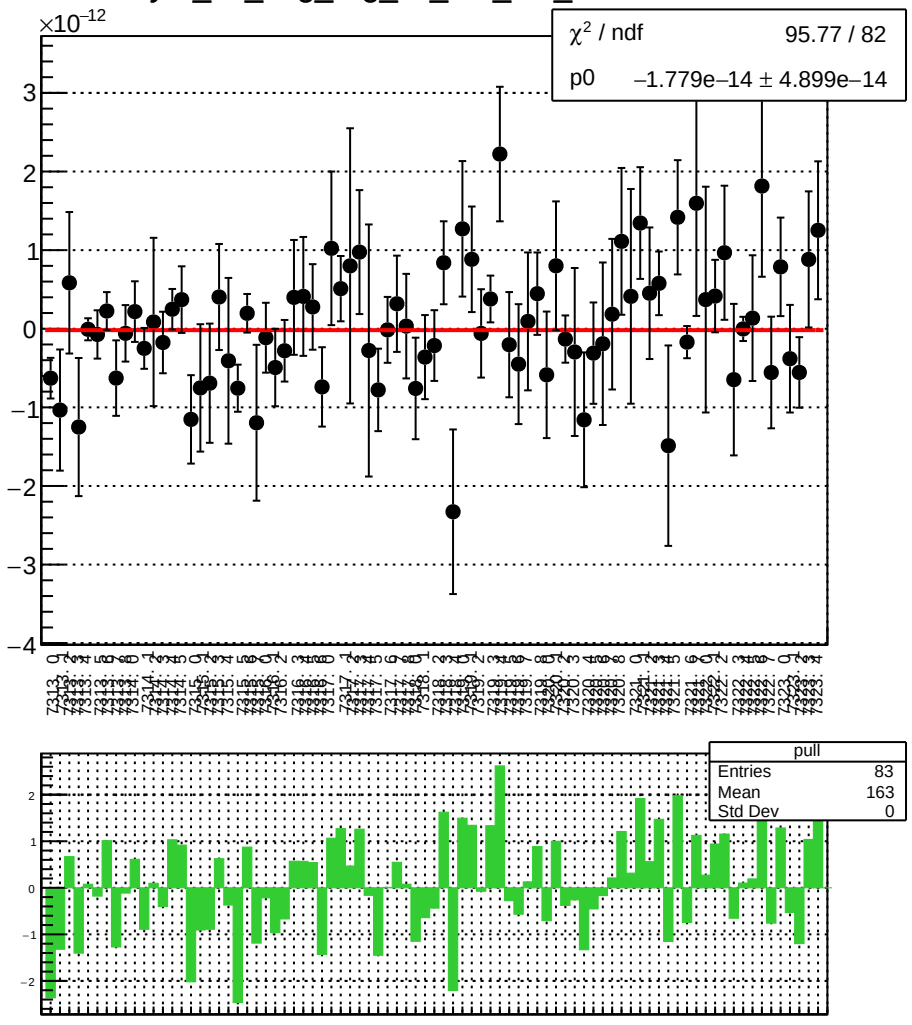

pull1D
Entries 83
Mean 0.00568
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

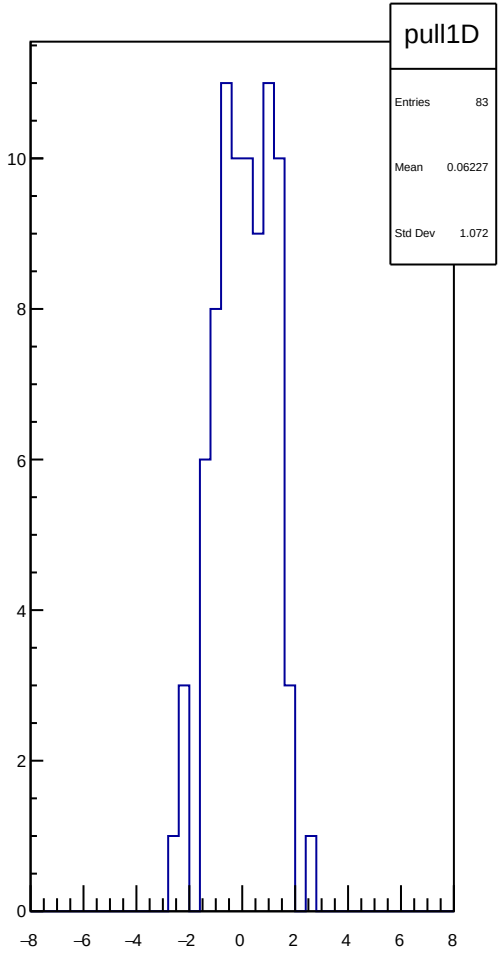

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.822e+04 / 82
p0 2021 ± 1.601
2600
2400
2200
2000
1800
1600
1400

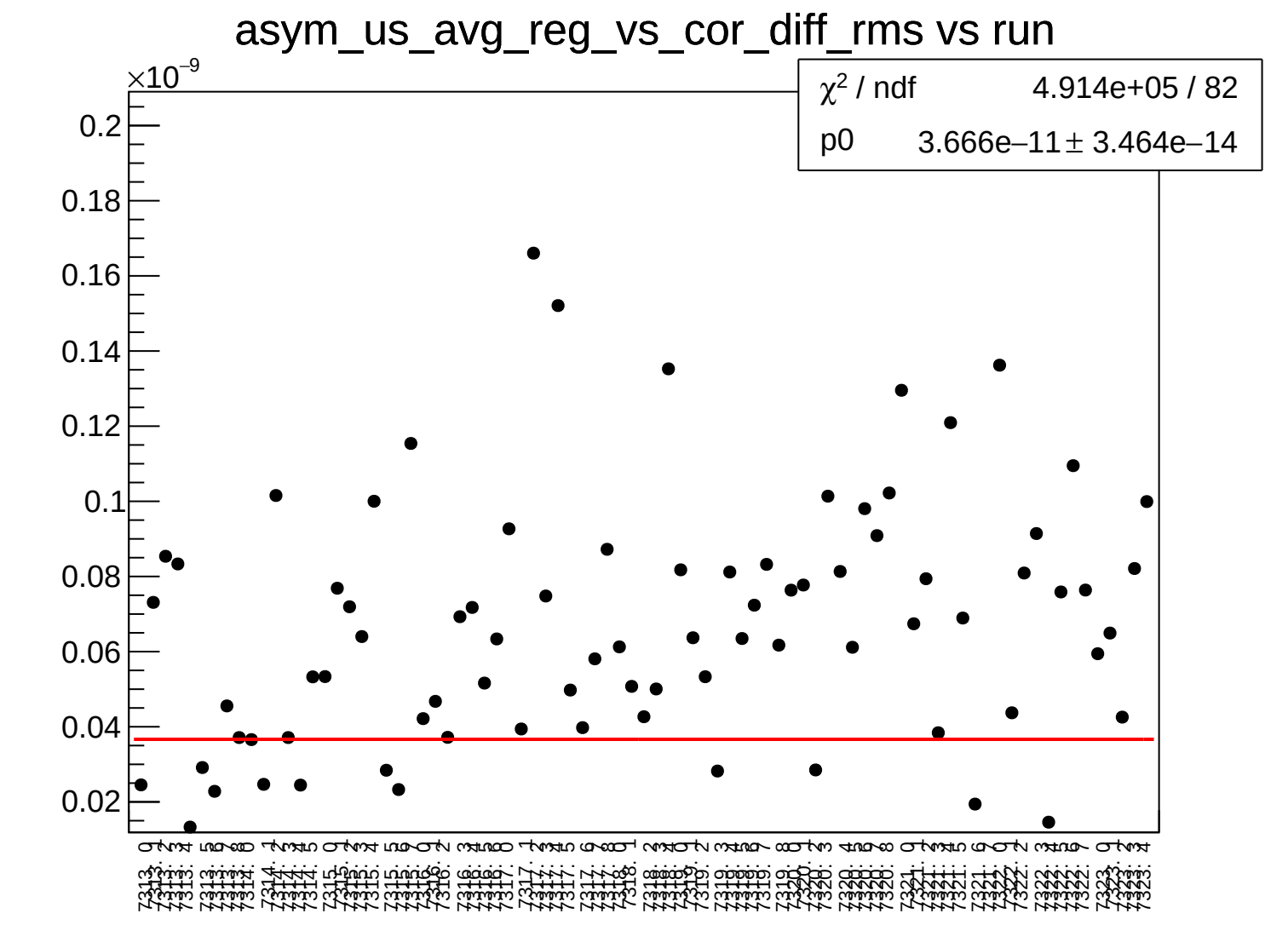

asym_us_avg_mean vs run
×10^3
χ² / ndf 88.61 / 82
p0 −602.8 ± 2398
pull
Entries 83
Mean 649.7
Std Dev 0

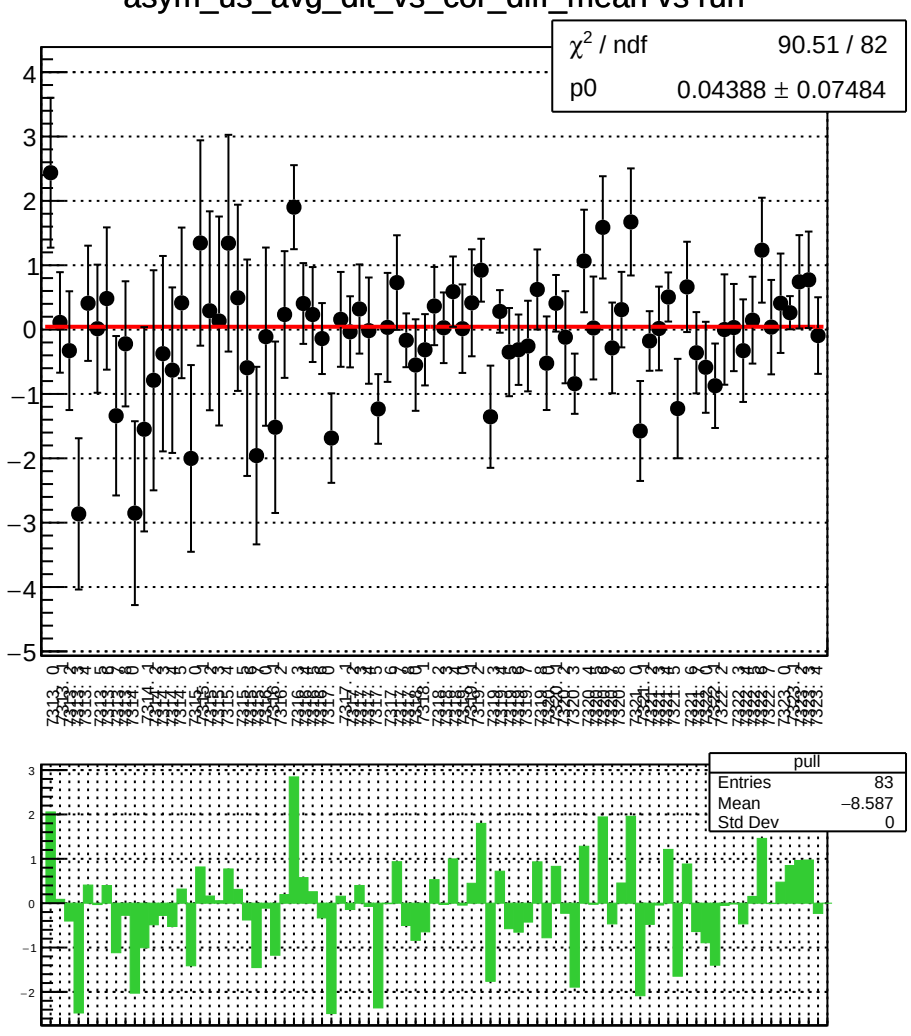

pull1D
Entries 83
Mean −0.006712
Std Dev 1.033

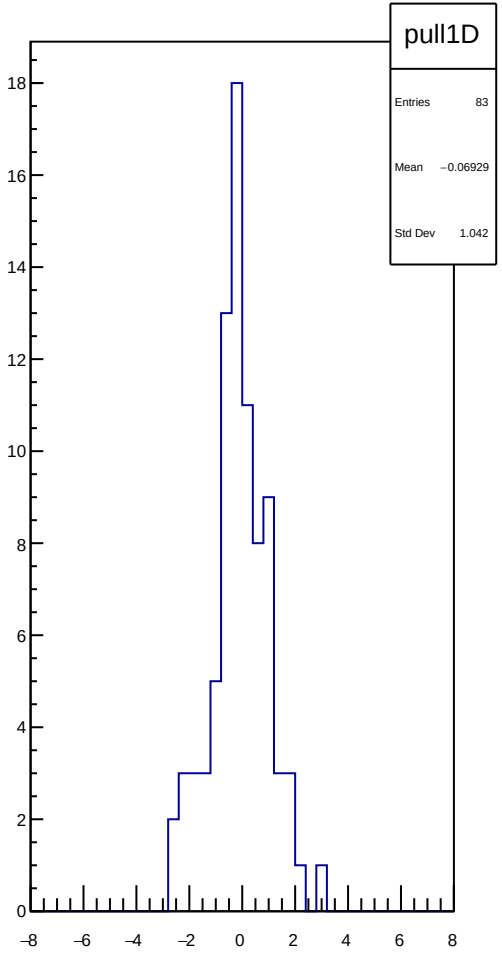

asym_us_avg_rms vs run
χ² / ndf 1.365e+04 / 82
p0 2143 ± 1.696
2600
2400
2200
2000
1800
1600

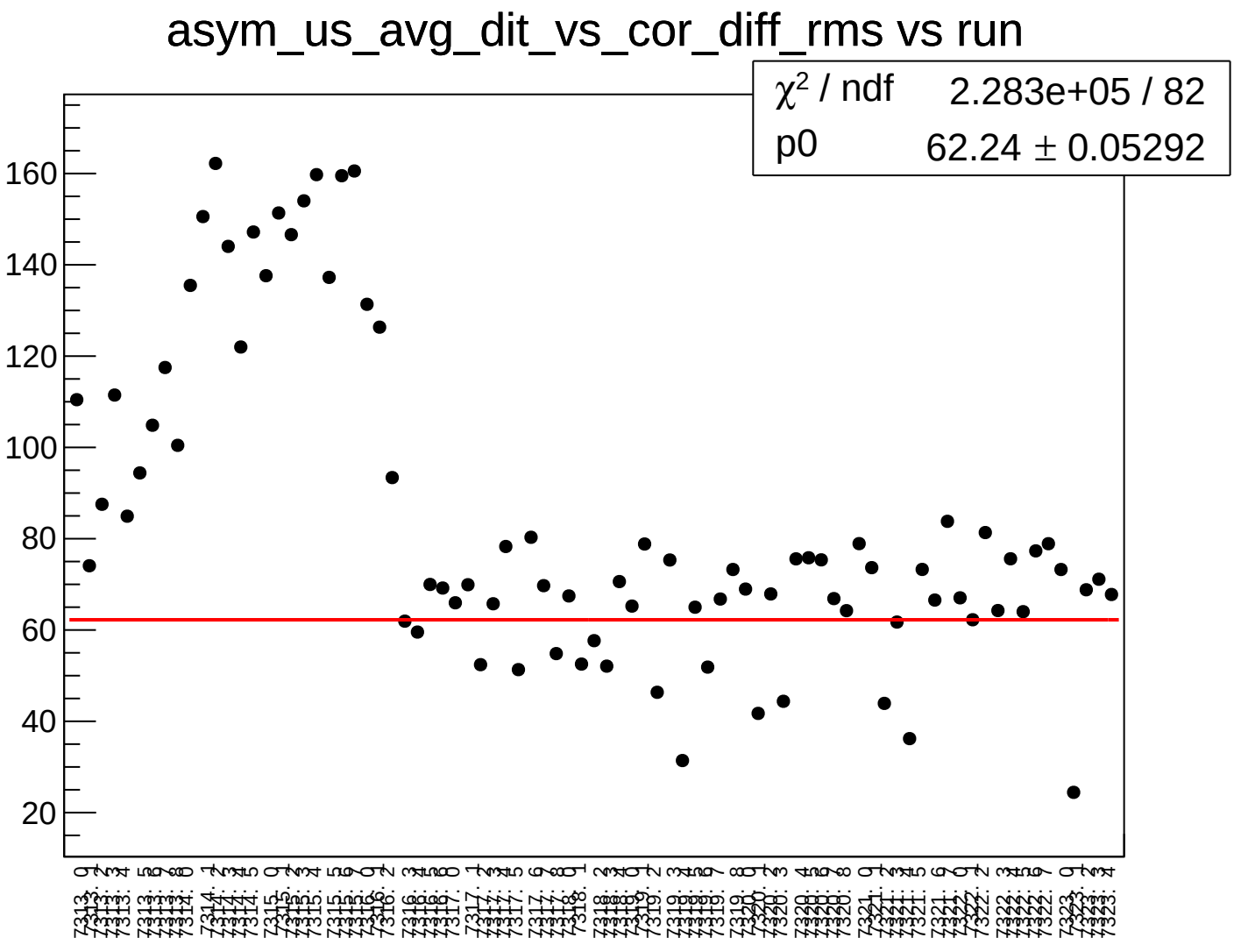

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.77 / 82
p0 −1.779e−14 ± 4.899e−14
pull
Entries 83
Mean 163
Std Dev 0

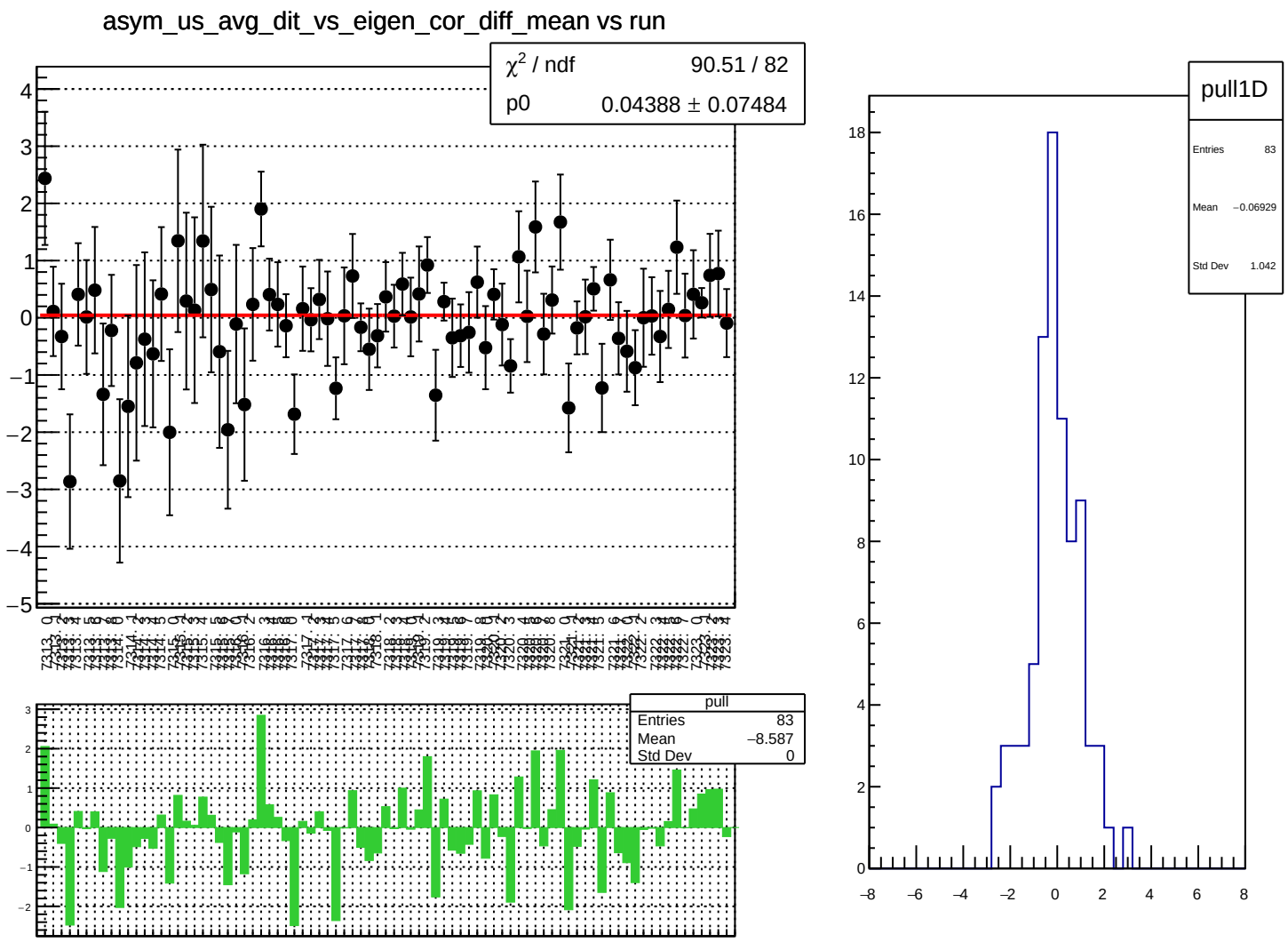

pull1D
Entries 83
Mean 0.06227
Std Dev 1.072

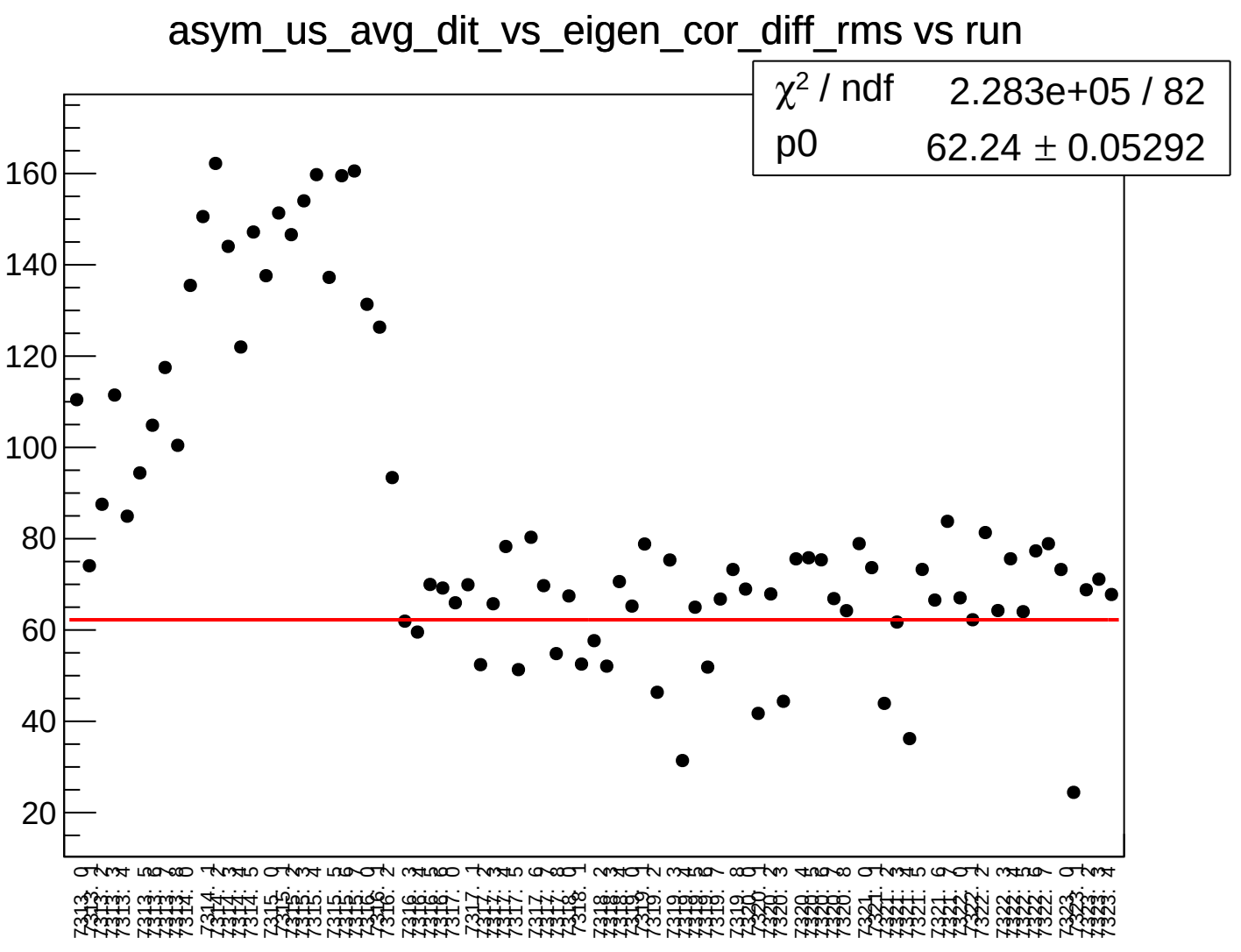

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.914e+05 / 82
p0 3.666e−11 ± 3.464e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

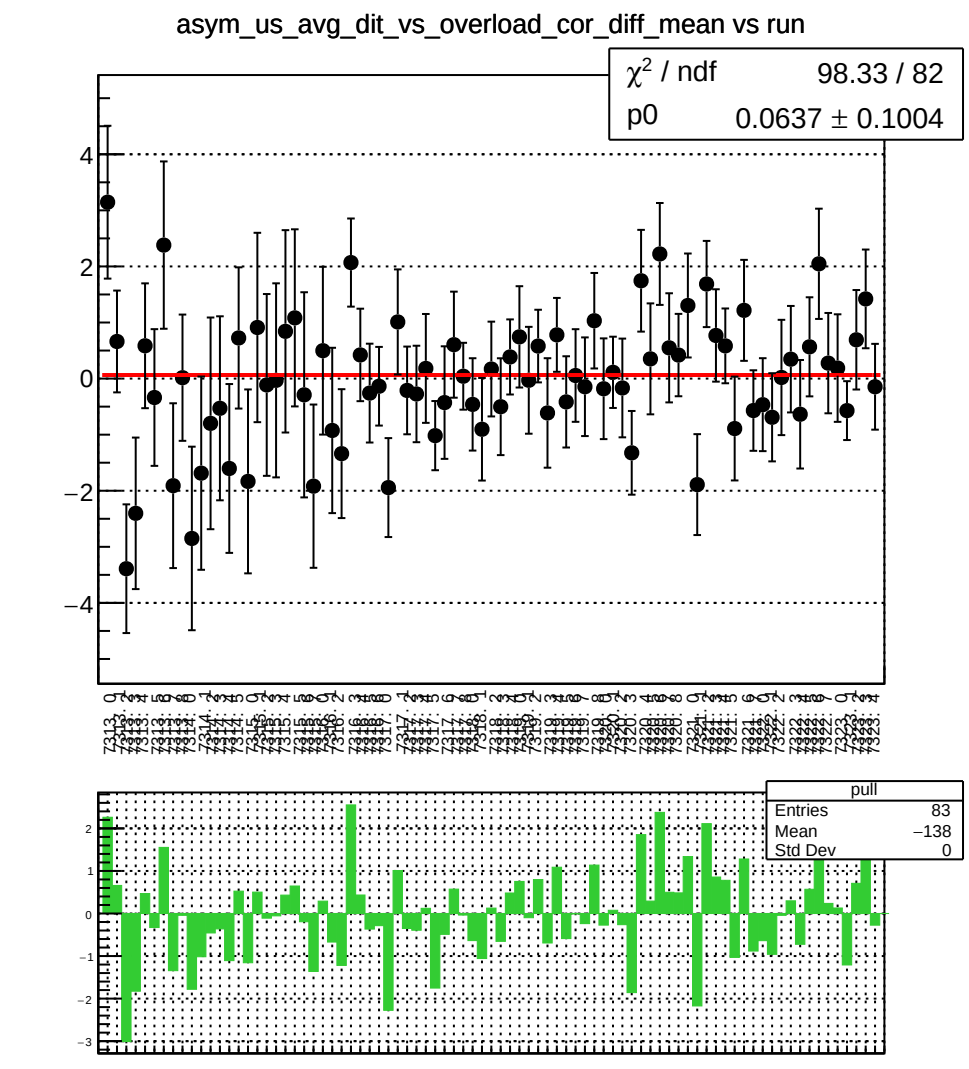

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.51 / 82
p0 0.04388 ± 0.07484
pull
Entries 83
Mean −8.587
Std Dev 0

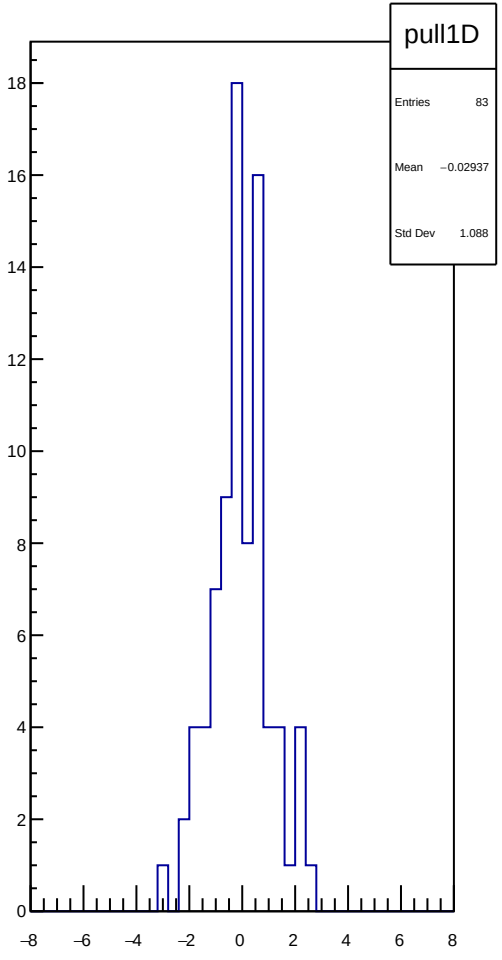

pull1D
Entries 83
Mean −0.06929
Std Dev 1.042

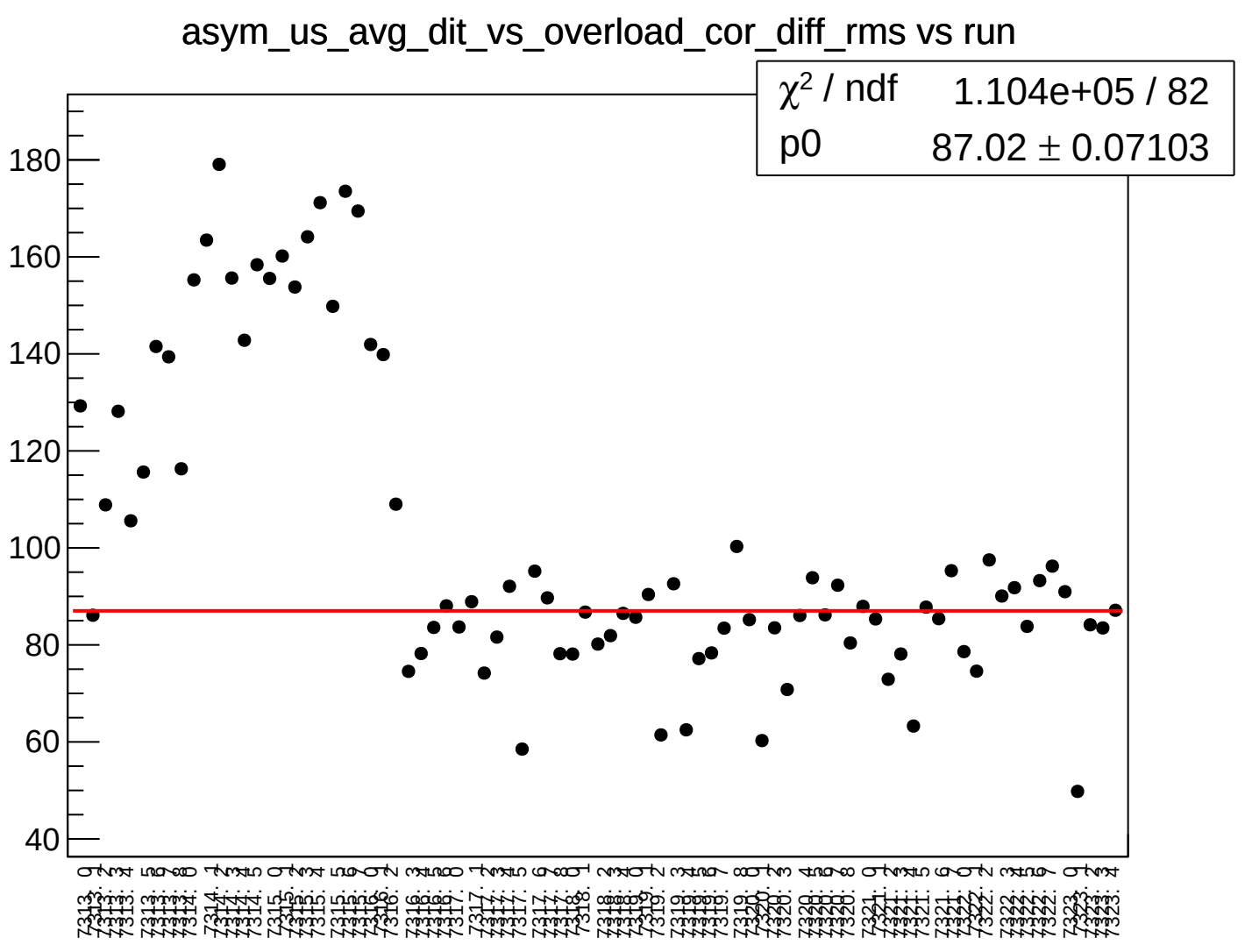

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 82
p0 62.24 ± 0.05292
160
140
120
100
80
60
40
20

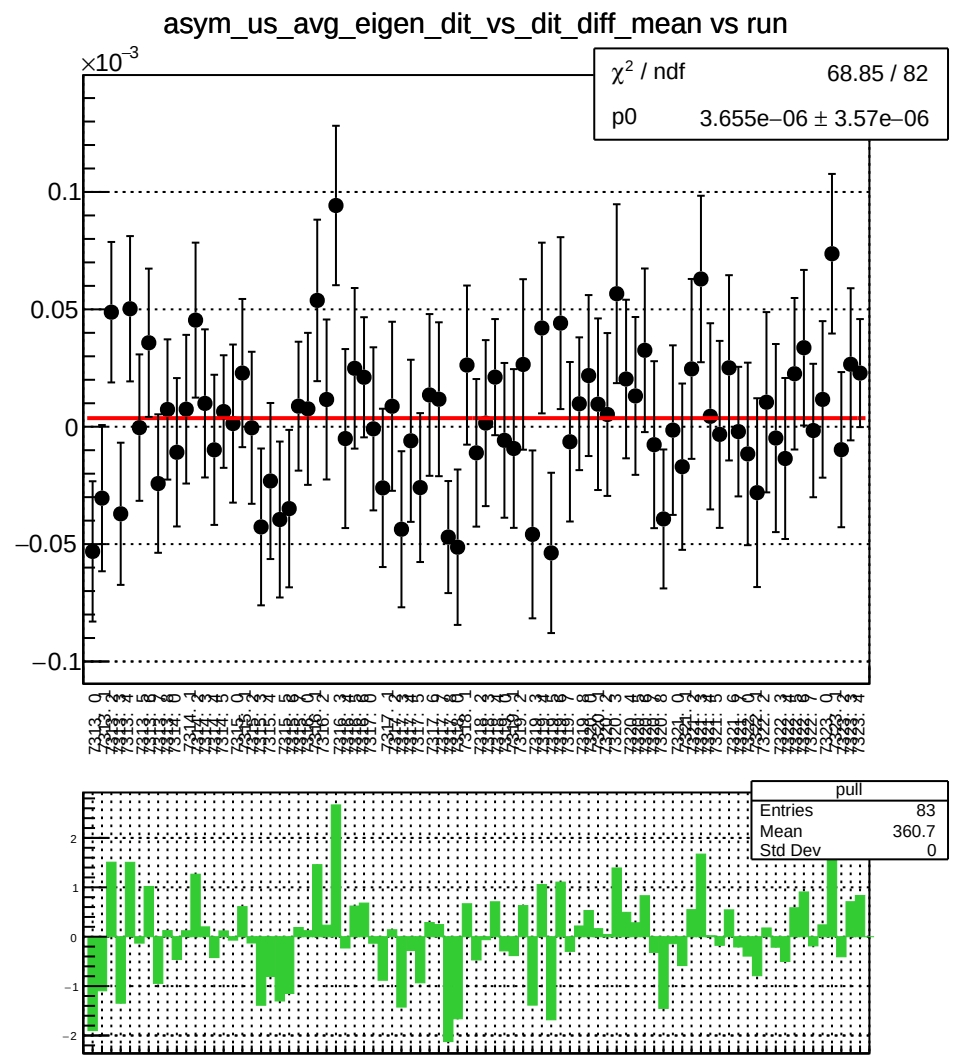

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.51 / 82
p0 0.04388 ± 0.07484
pull
Entries 83
Mean −8.587
Std Dev 0
pull1D
Entries 83
Mean −0.06929
Std Dev 1.042

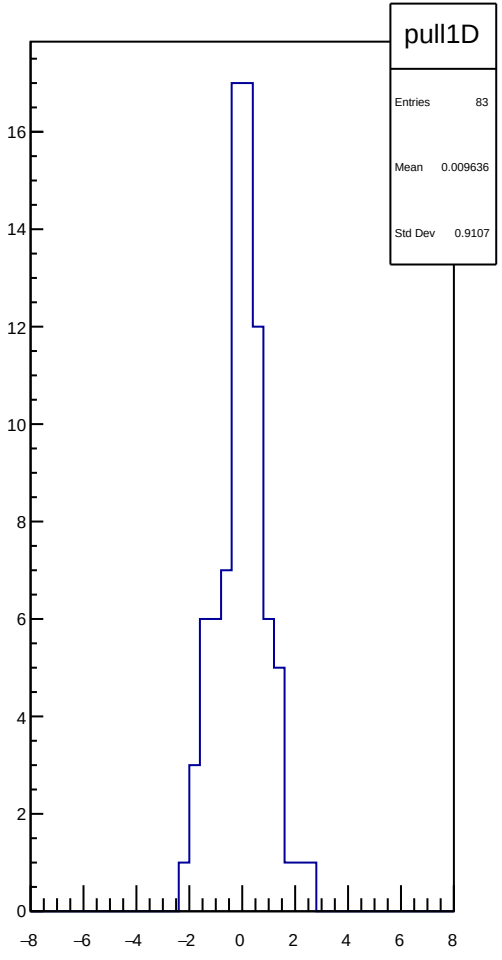

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 82
p0 62.24 ± 0.05292
160
140
120
100
80
60
40
20

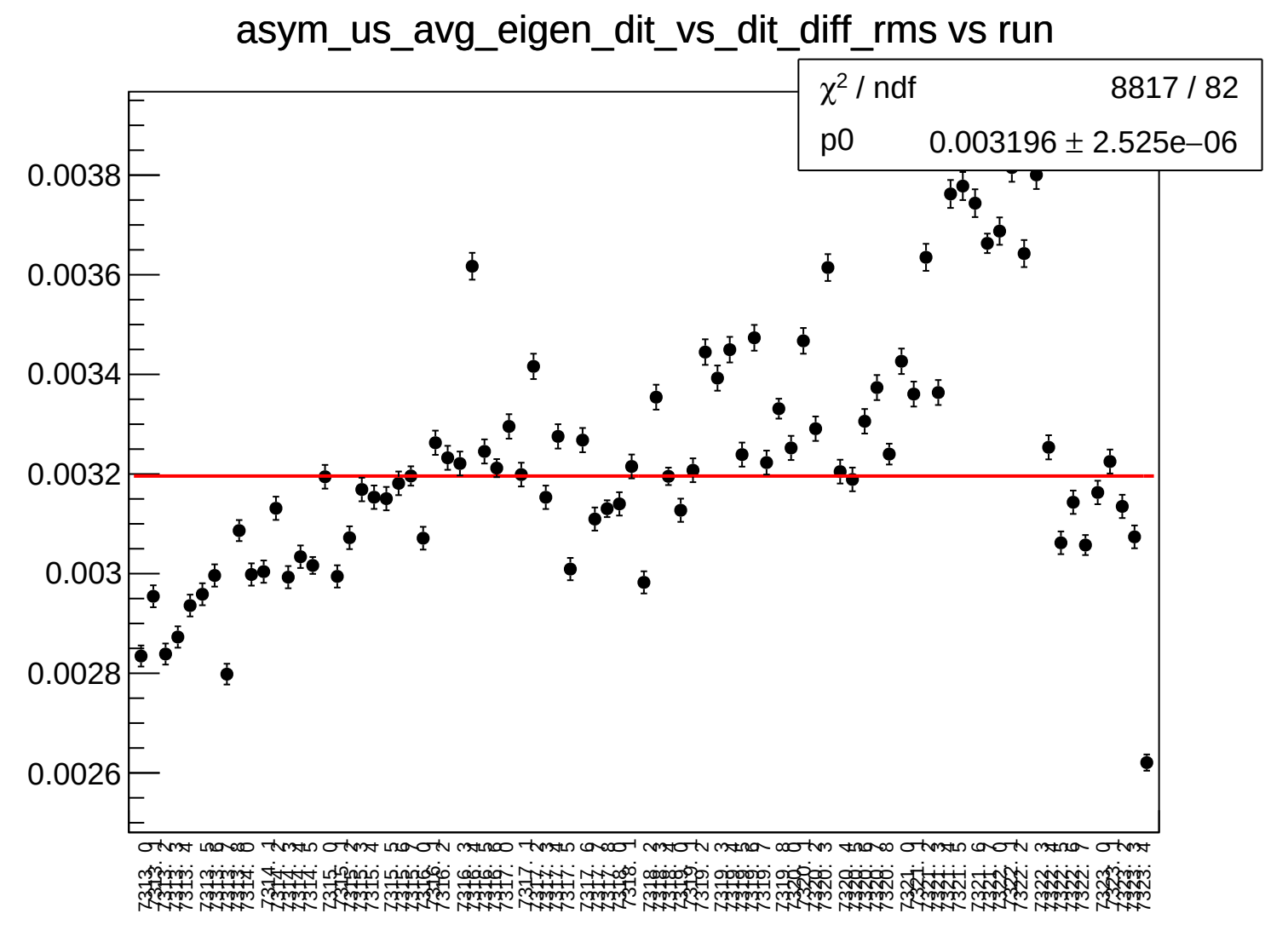

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.33 / 82
p0 0.0637 ± 0.1004
pull
Entries 83
Mean −138
Std Dev 0

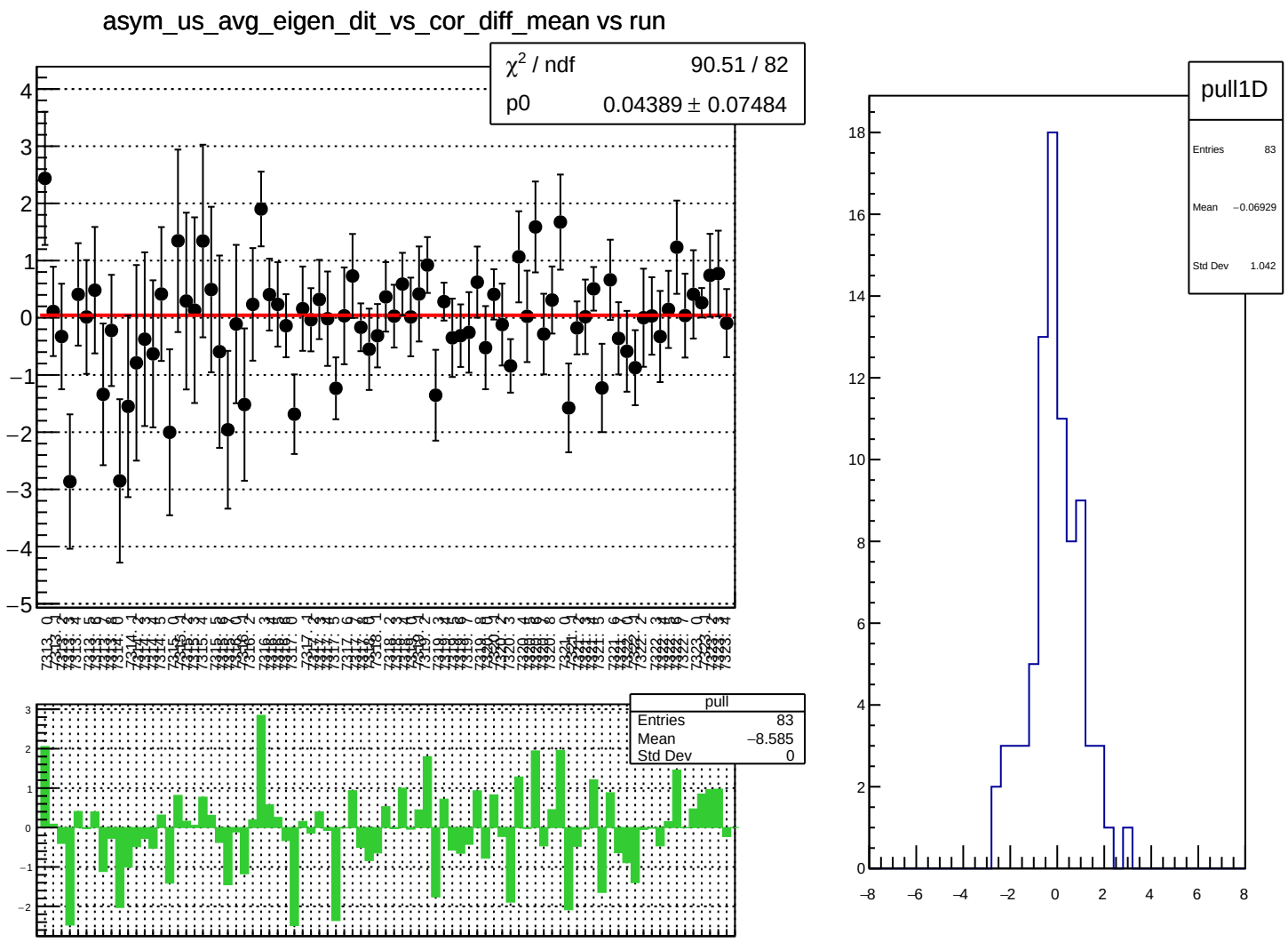

pull1D
Entries 83
Mean −0.02937
Std Dev 1.088

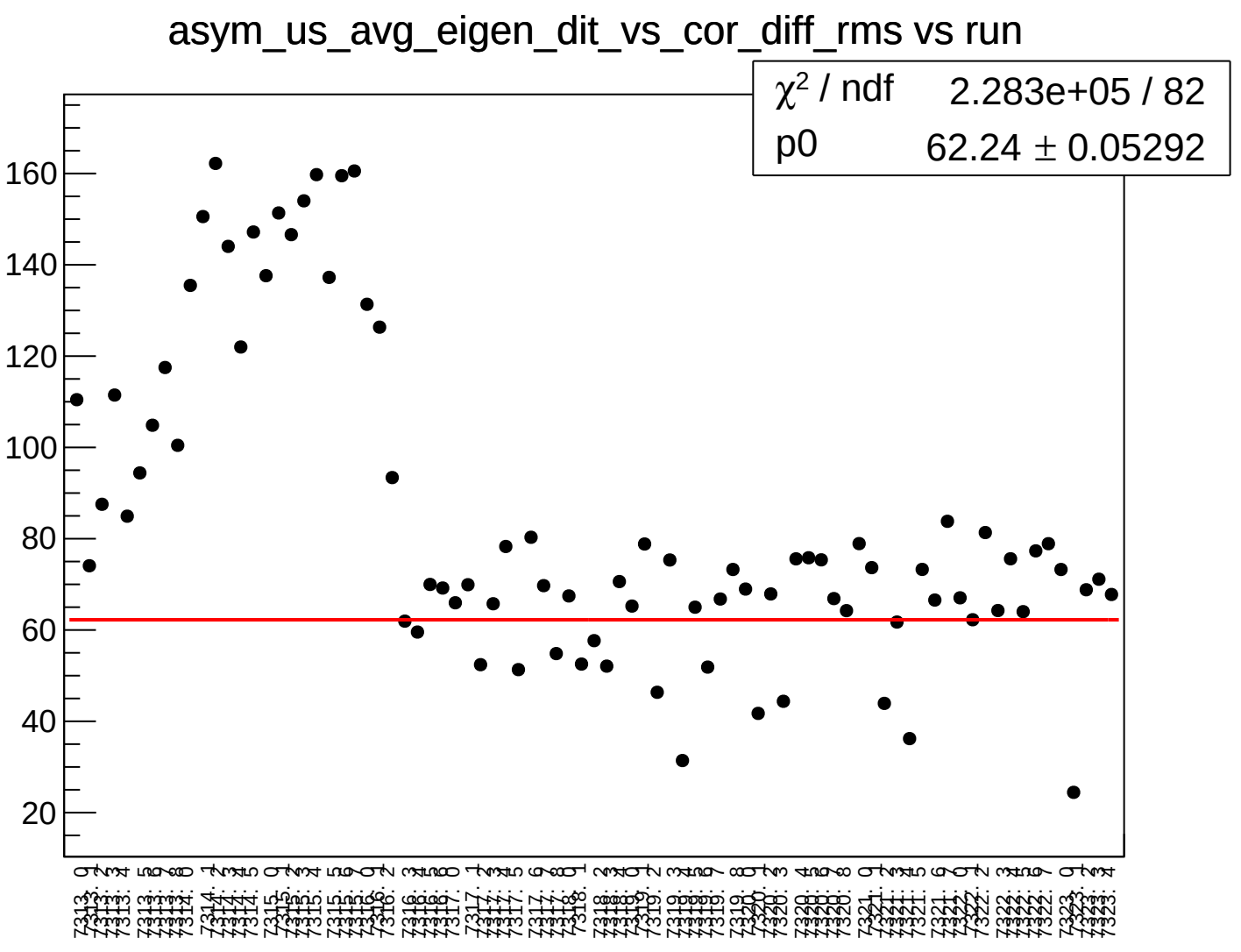

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.104e+05 / 82
p0 87.02 ± 0.07103
180
160
140
120
100
80
60
40

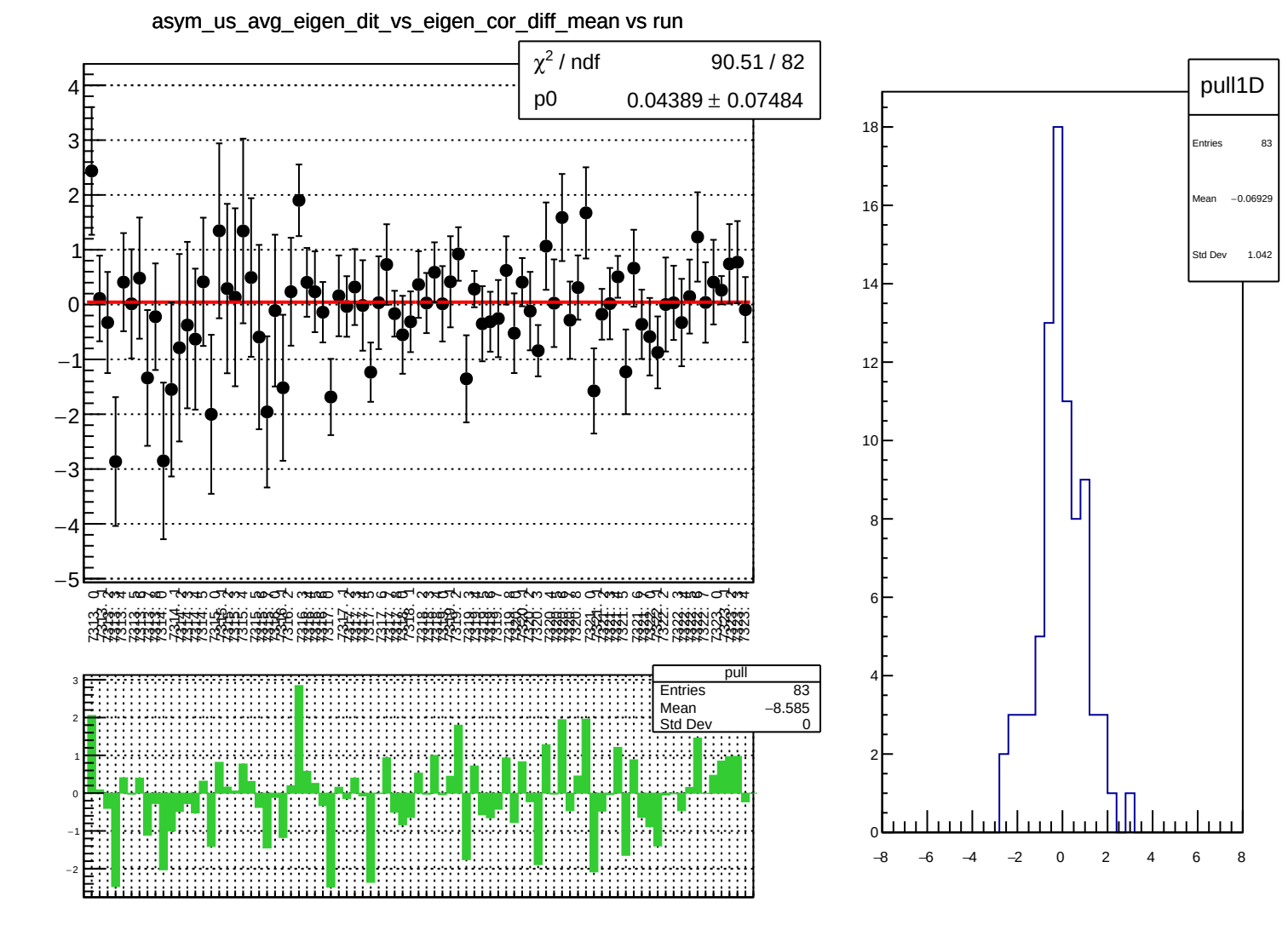

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.85 / 82
p0 3.655e−06 ± 3.57e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean 360.7
Std Dev 0
2
1
0
−1
−2

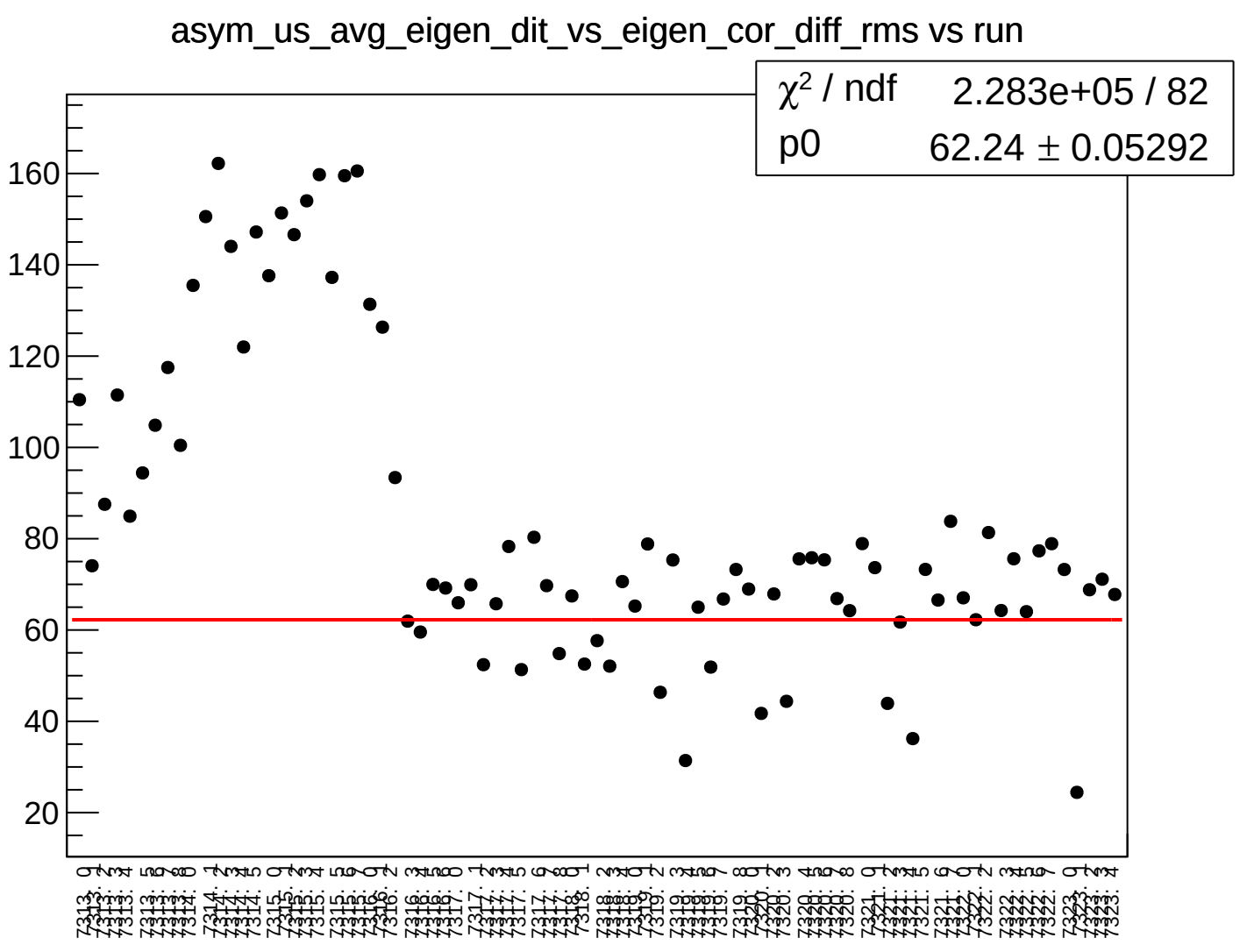

pull1D
Entries 83
Mean 0.009636
Std Dev 0.9107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

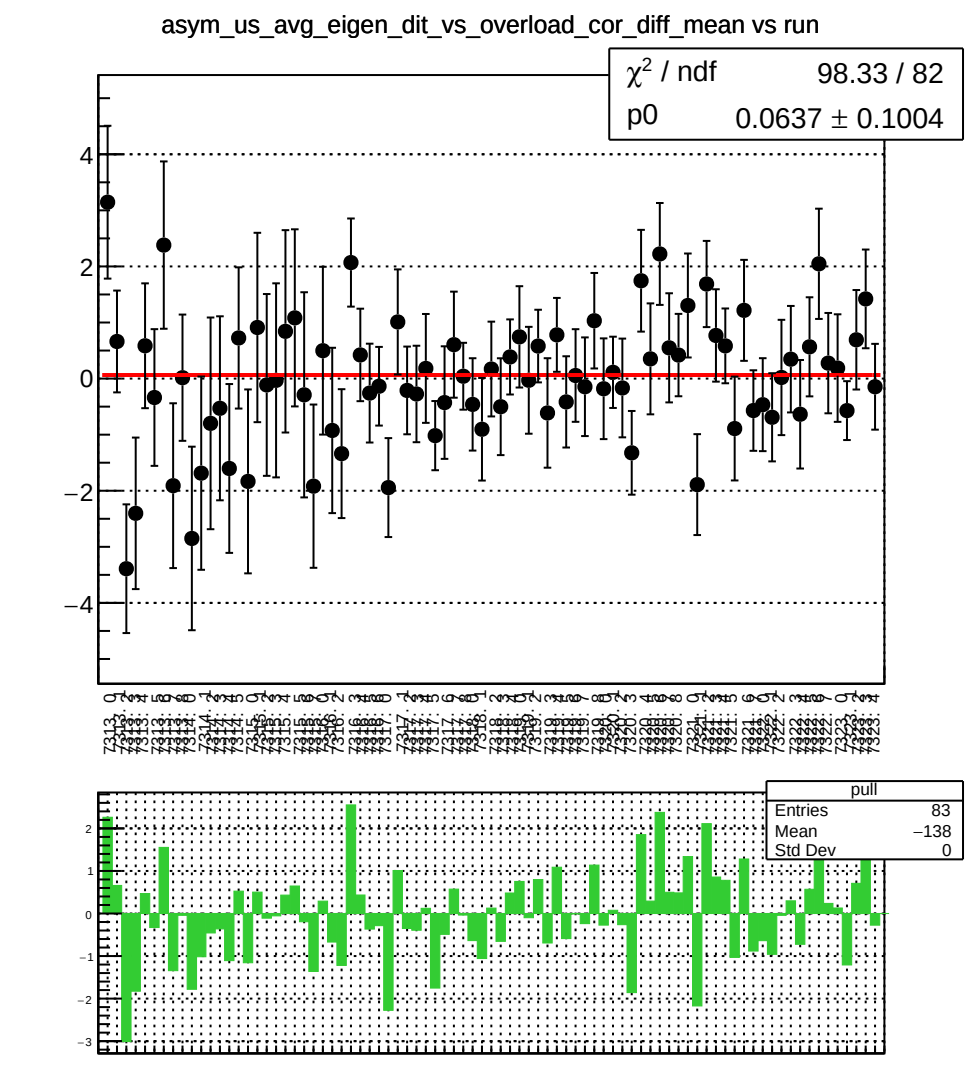

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8817 / 82
p0 0.003196 ± 2.525e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

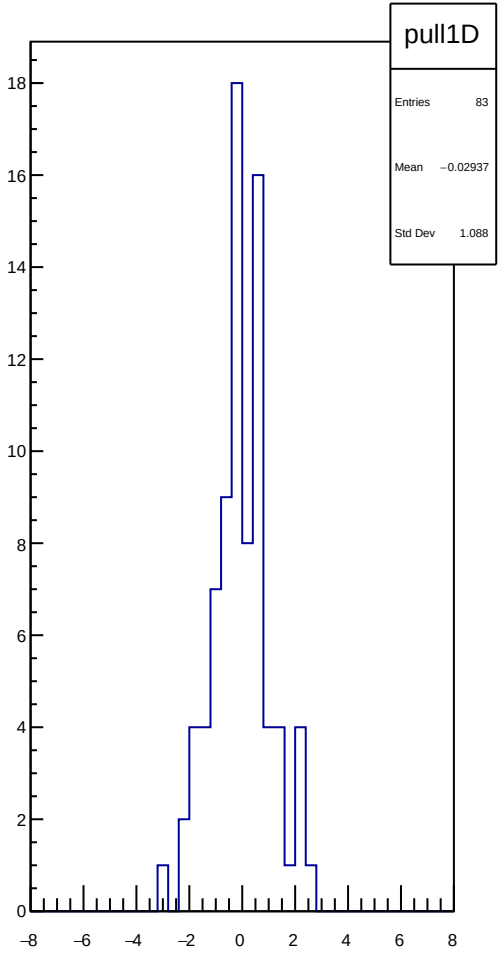

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.51 / 82
p0 0.04389 ± 0.07484
pull
Entries 83
Mean −8.585
Std Dev 0
pull1D
Entries 83
Mean −0.06929
Std Dev 1.042

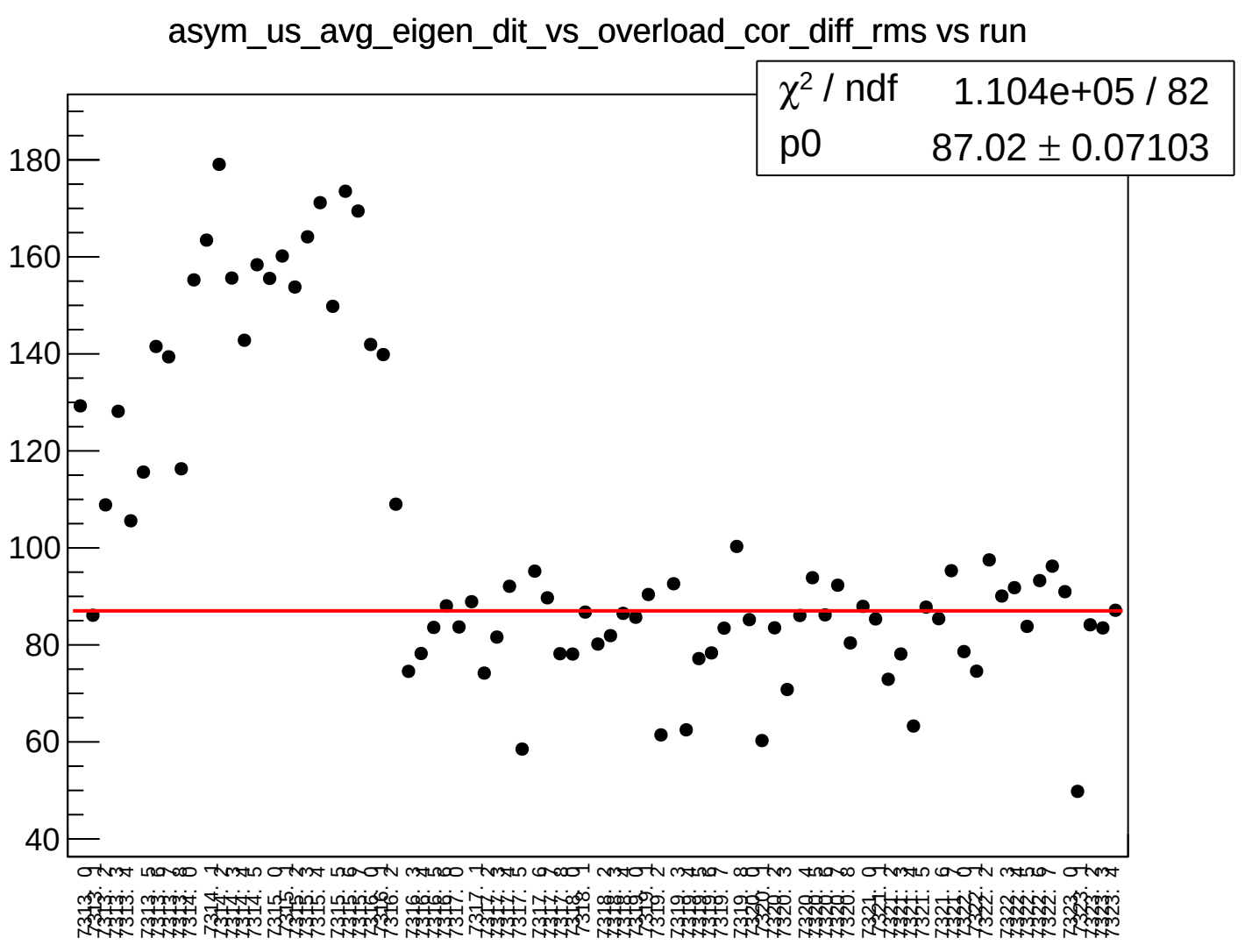

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 82
p0 62.24 ± 0.05292
160
140
120
100
80
60
40
20

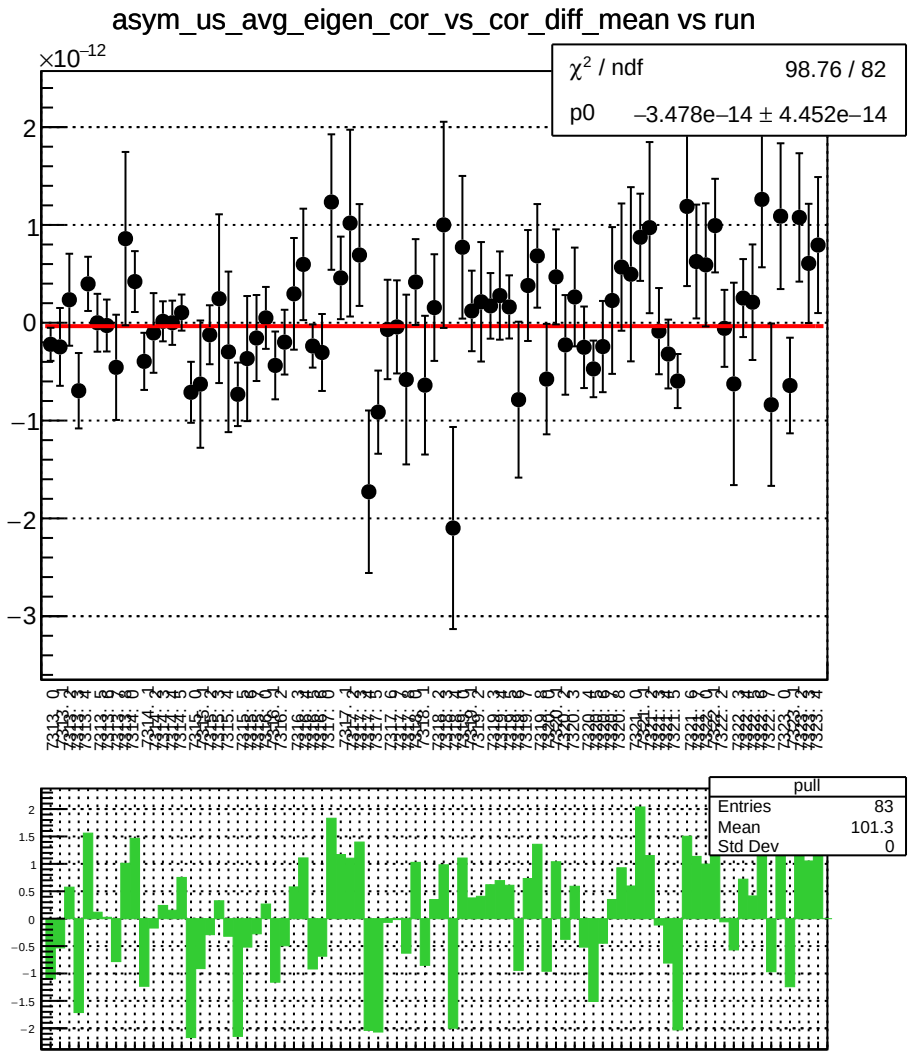

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.51 / 82
p0 0.04389 ± 0.07484
pull
Entries 83
Mean −8.585
Std Dev 0
pull1D
Entries 83
Mean −0.06929
Std Dev 1.042

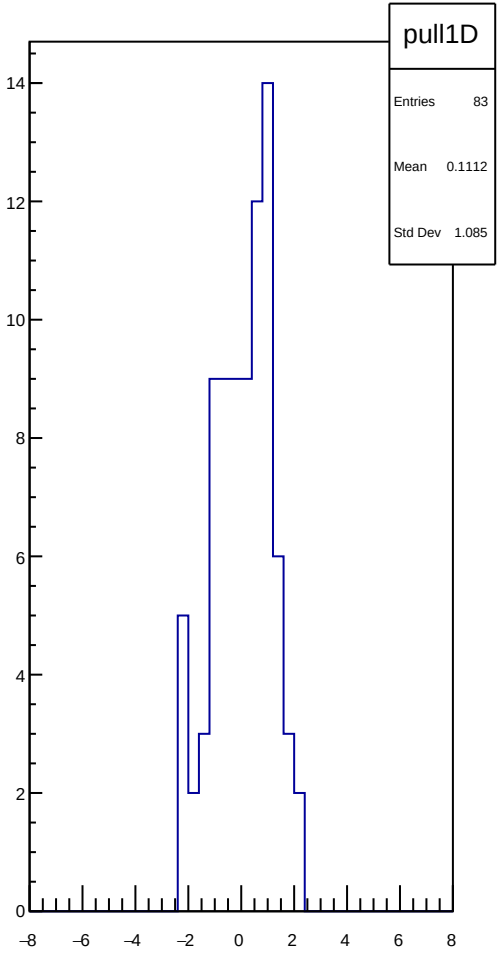

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 82
p0 62.24 ± 0.05292
160
140
120
100
80
60
40
20

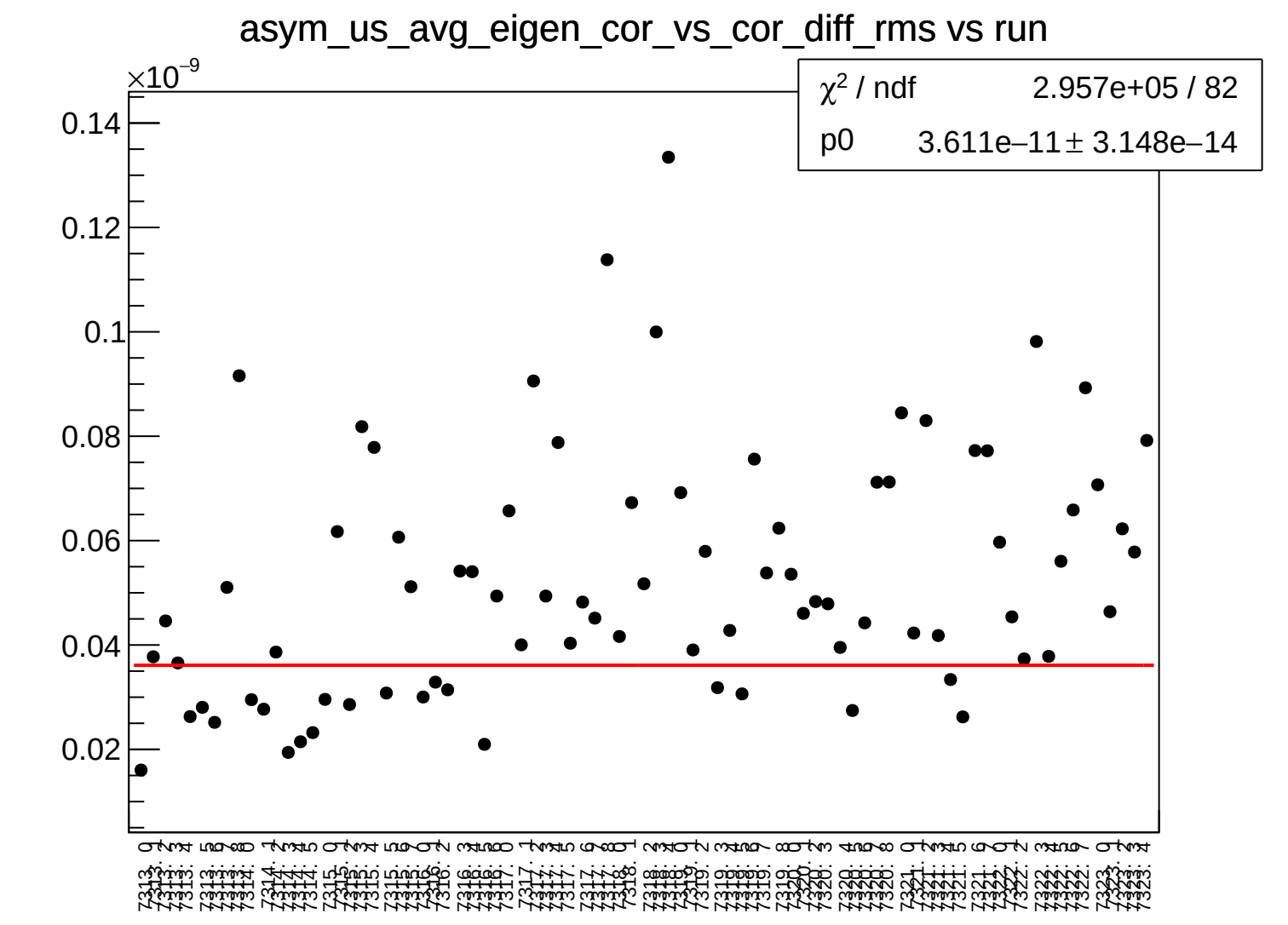

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.33 / 82
p0 0.0637 ± 0.1004
pull
Entries 83
Mean −138
Std Dev 0

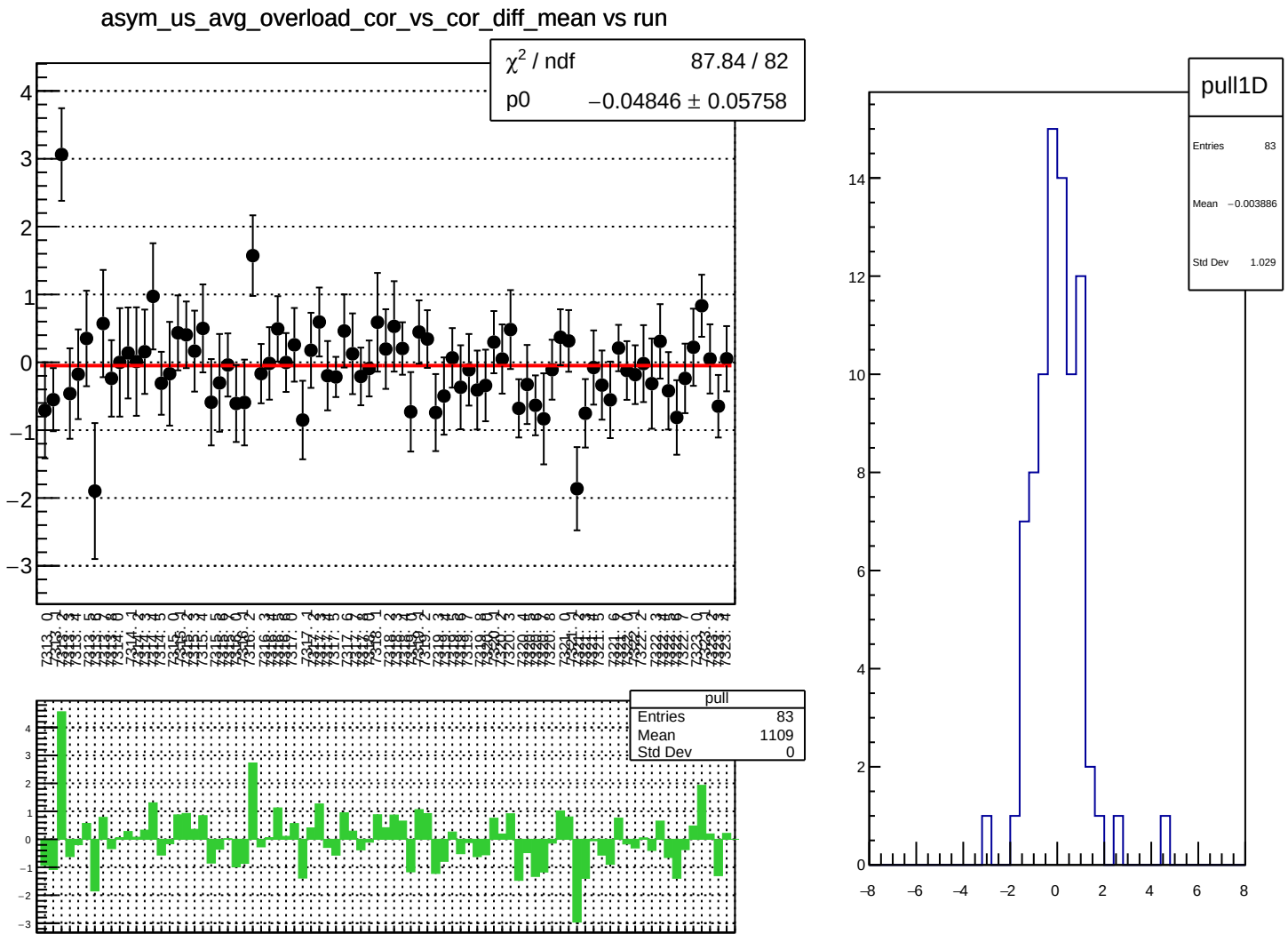

pull1D
Entries 83
Mean −0.02937
Std Dev 1.088

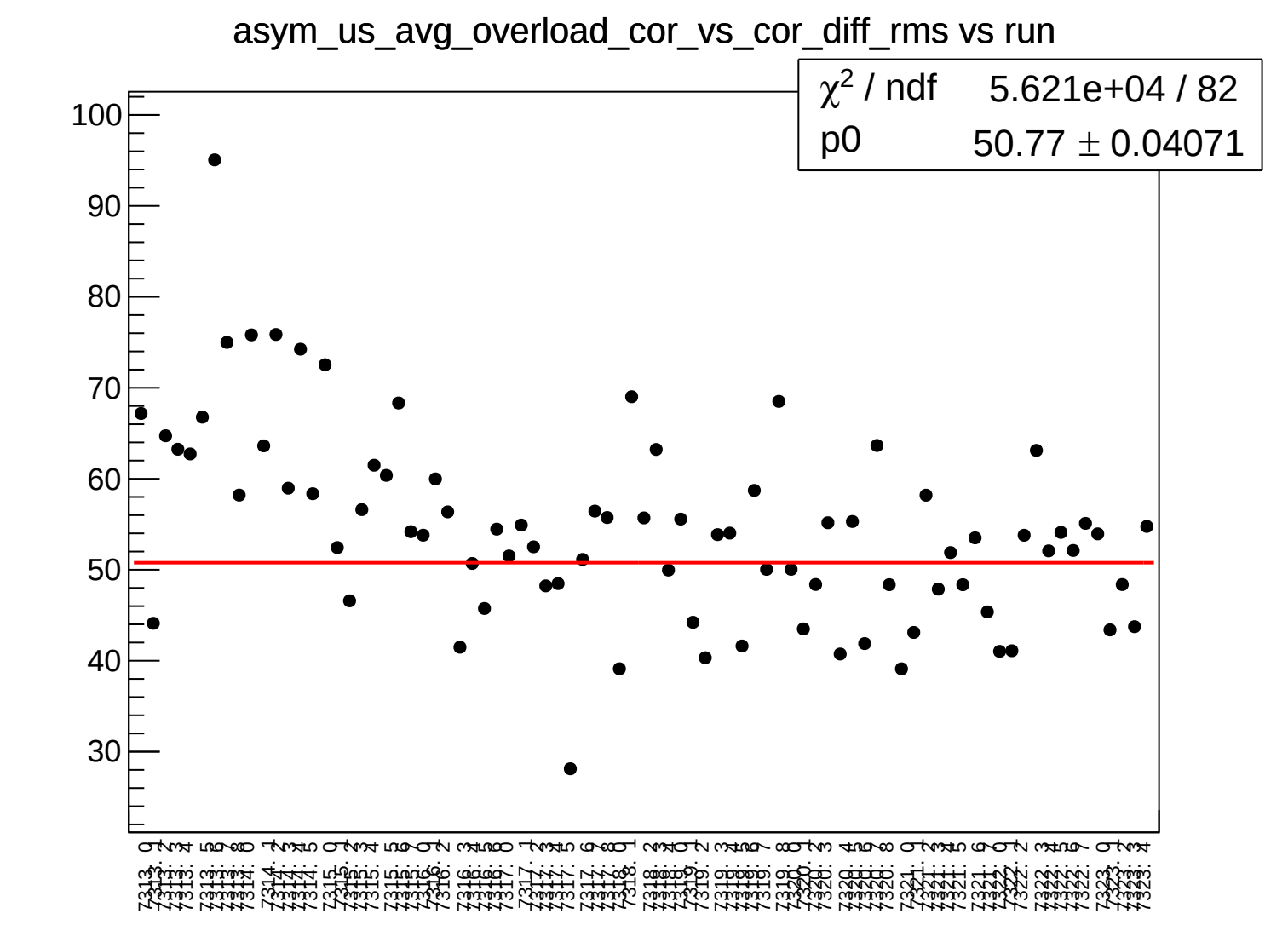

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.104e+05 / 82
p0 87.02 ± 0.07103
180
160
140
120
100
80
60
40

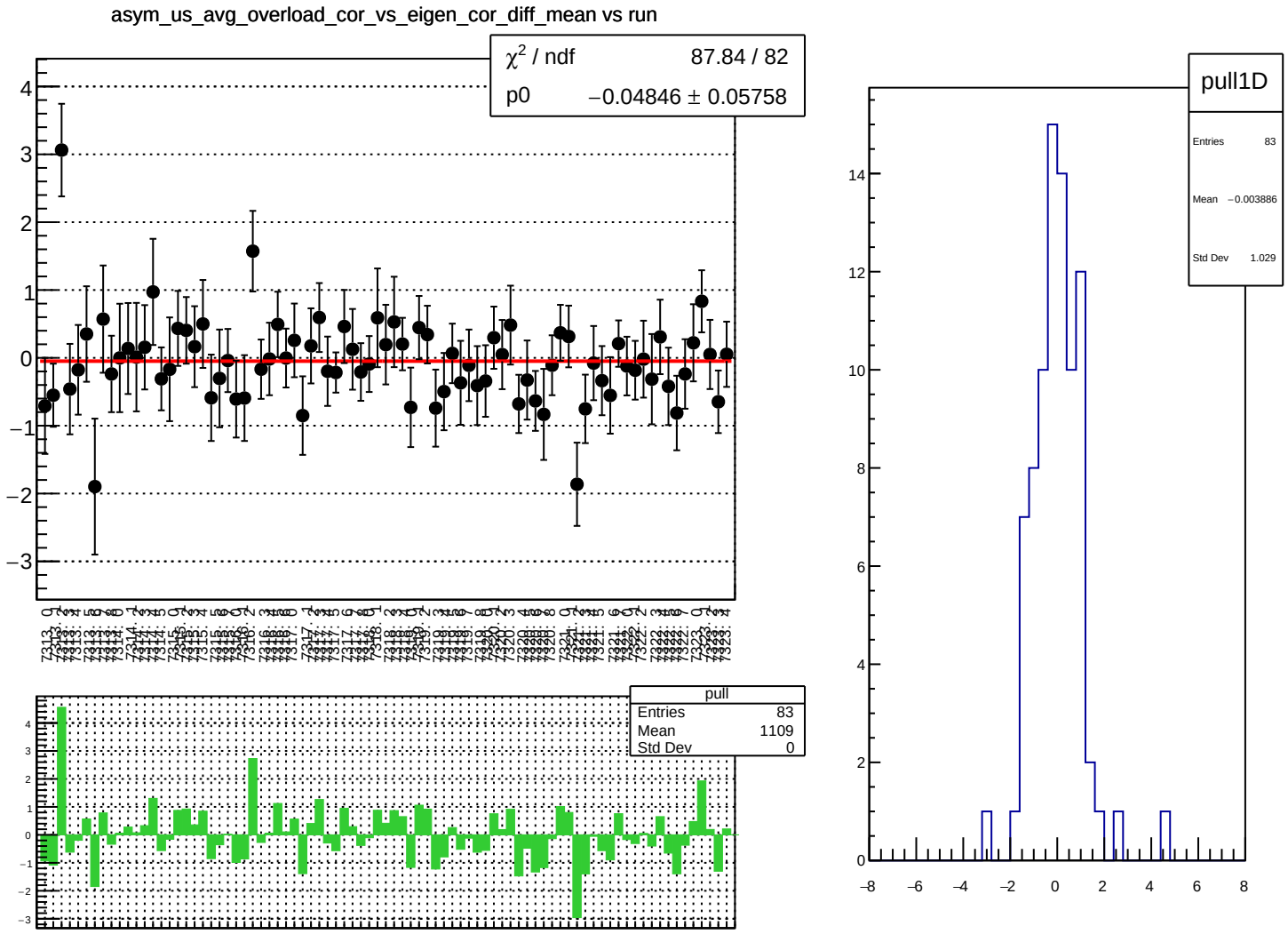

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.76 / 82
p0 −3.478e−14 ± 4.452e−14
pull
Entries 83
Mean 101.3
Std Dev 0

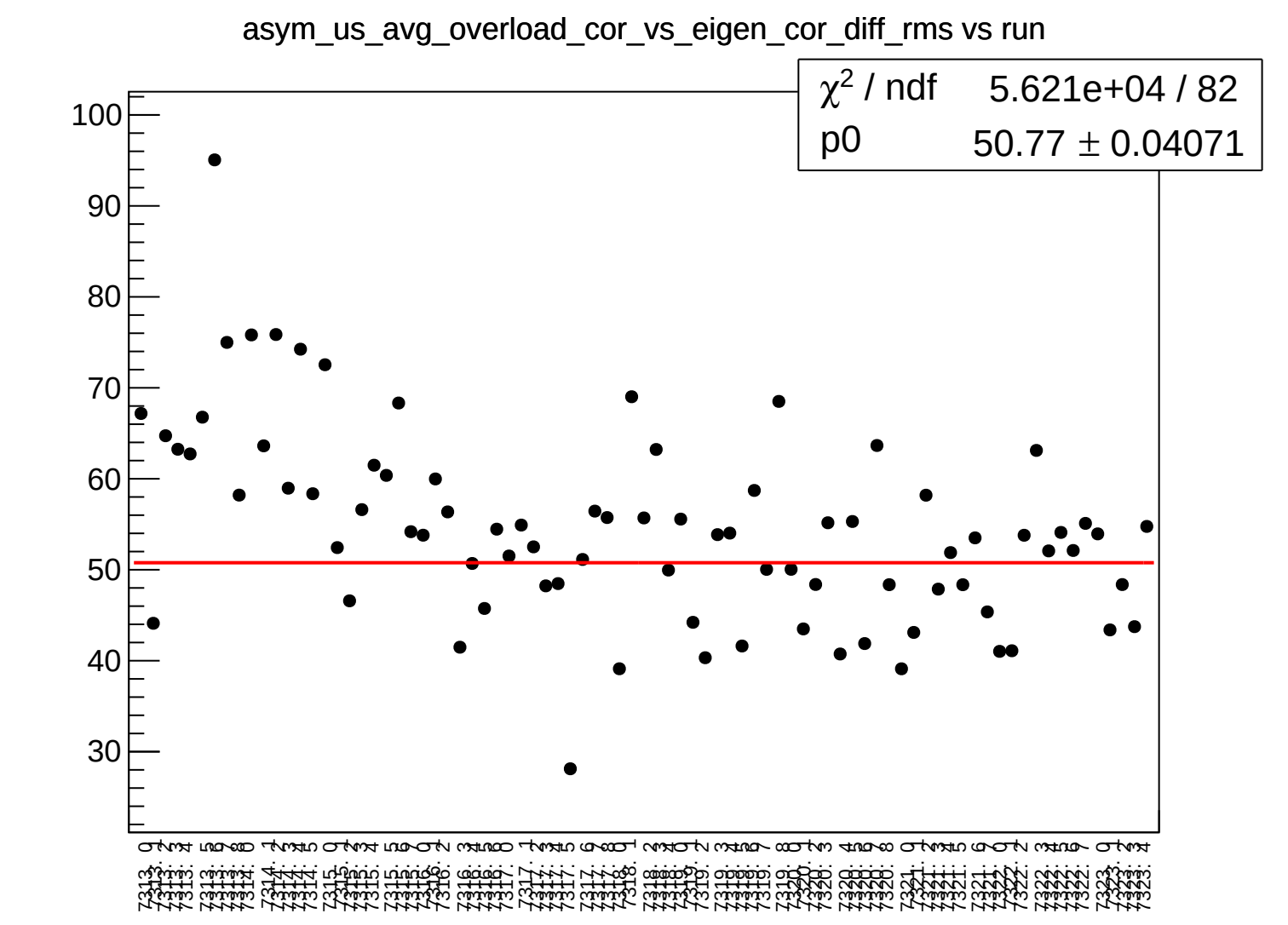

pull1D
Entries 83
Mean 0.1112
Std Dev 1.085

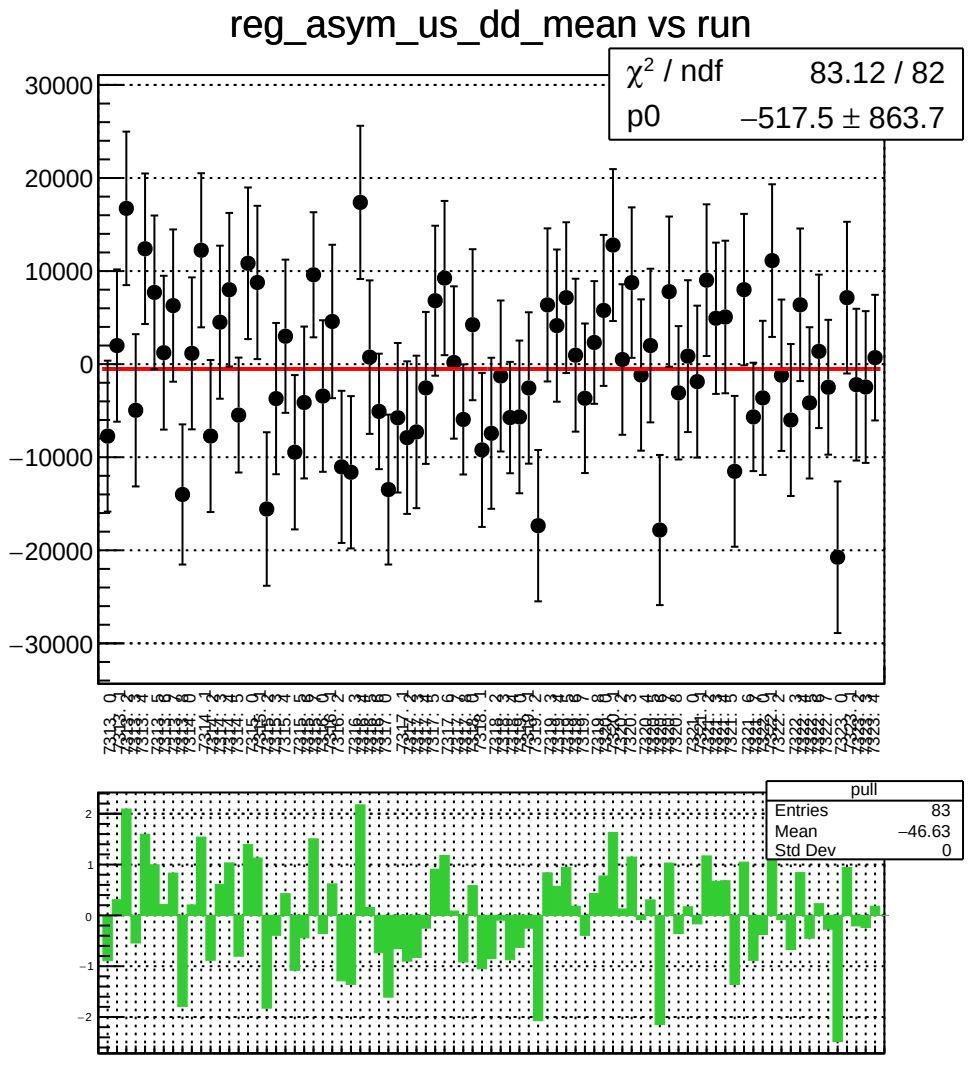

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.957e+05 / 82
p0 3.611e−11 ± 3.148e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

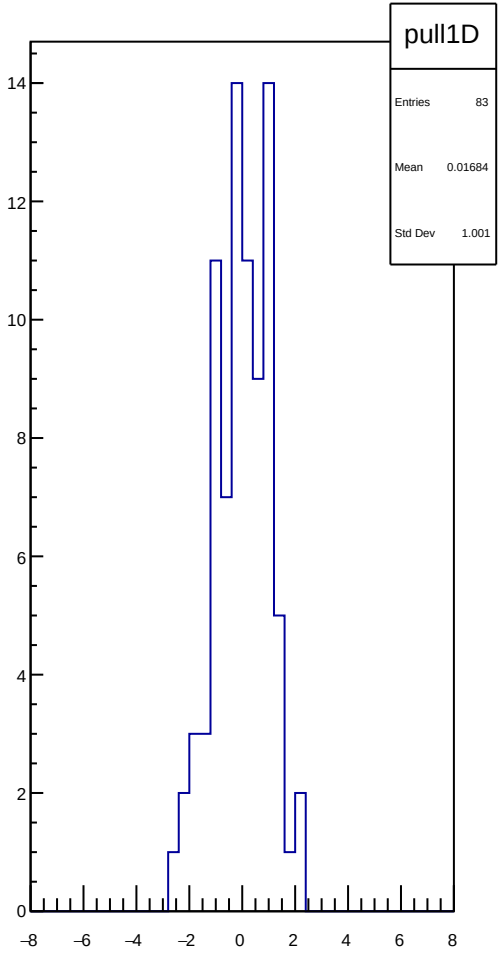

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 82
p0 −0.04846 ± 0.05758
pull
Entries 83
Mean 1109
Std Dev 0
pull1D
Entries 83
Mean −0.003886
Std Dev 1.029

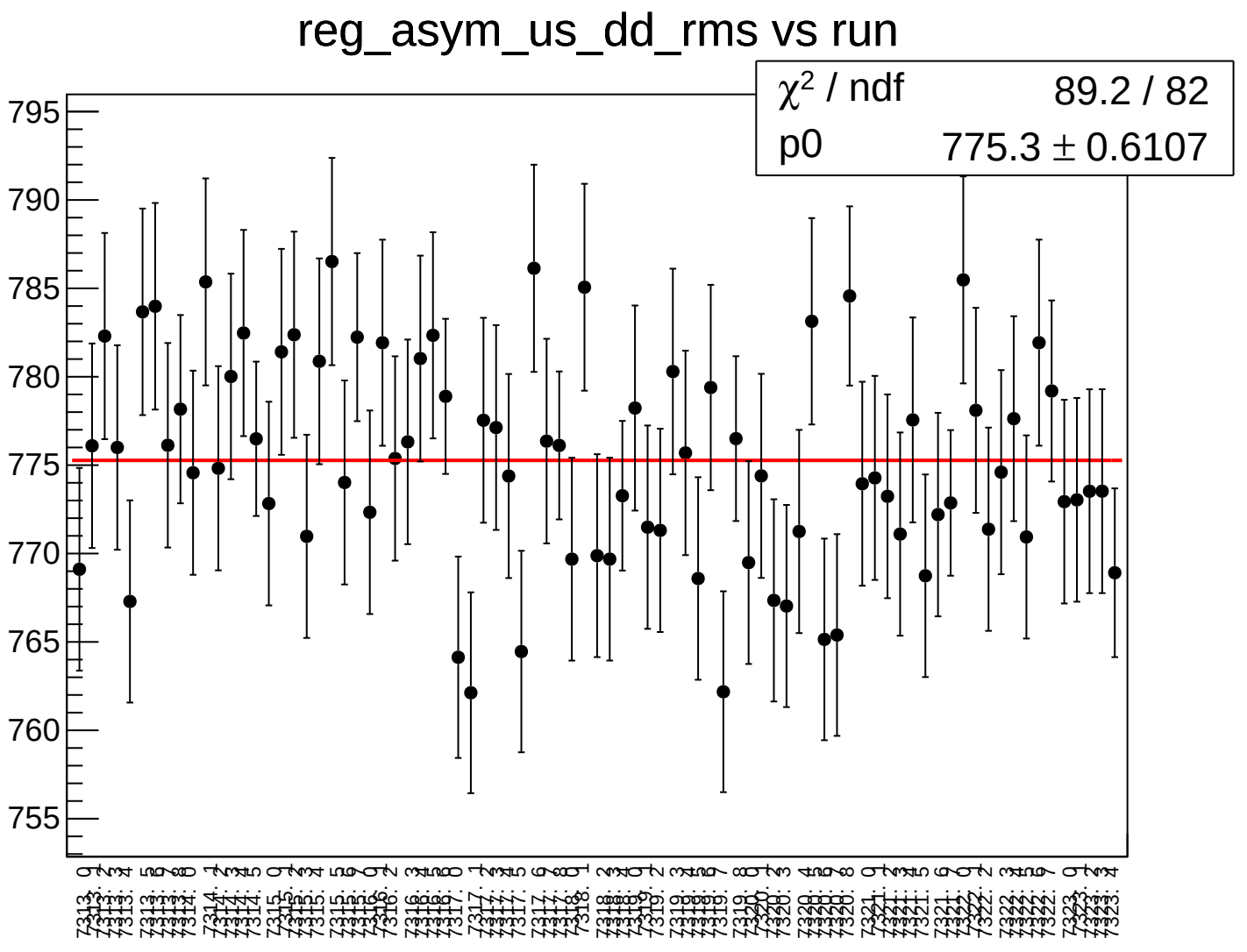

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.621e+04 / 82
p0 50.77 ± 0.04071
100
90
80
70
60
50
40
30

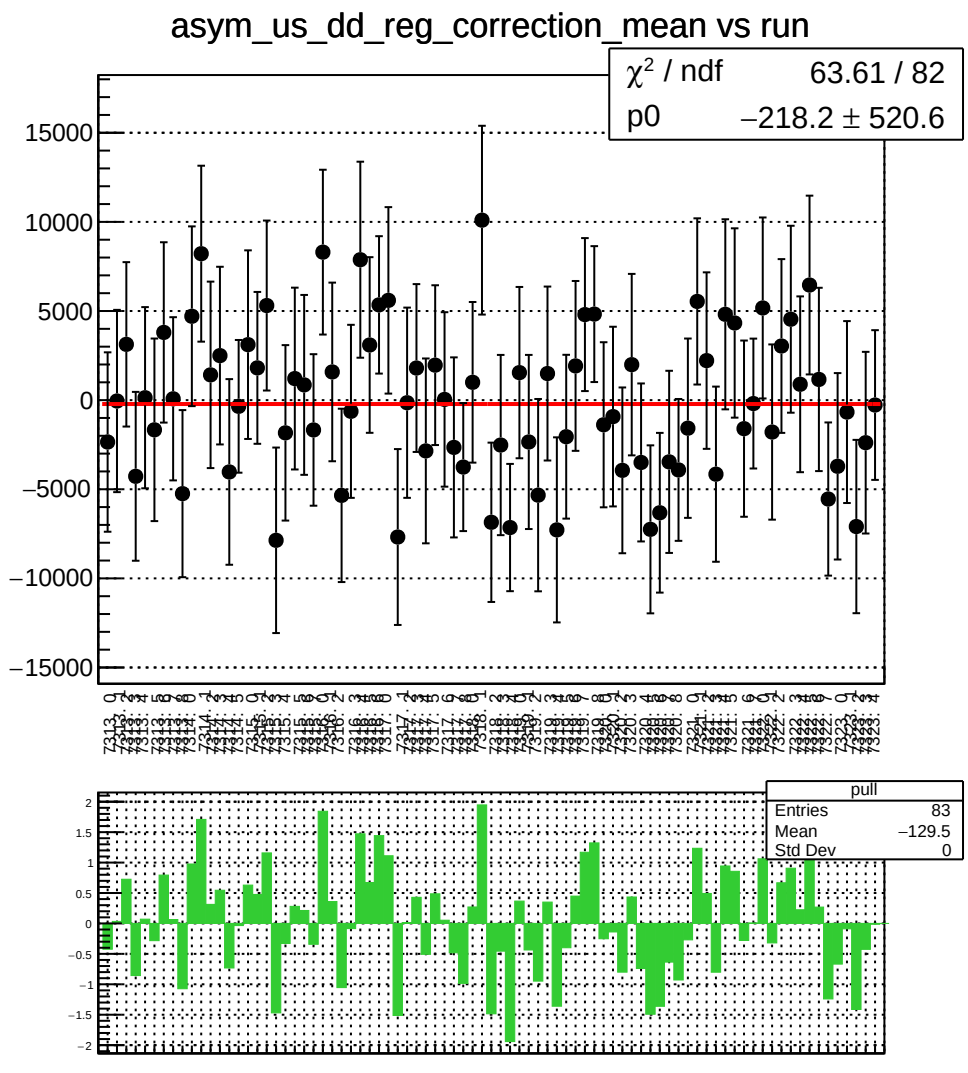

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.84 / 82
p0 −0.04846 ± 0.05758
pull
Entries 83
Mean 1109
Std Dev 0
pull1D
Entries 83
Mean −0.003886
Std Dev 1.029

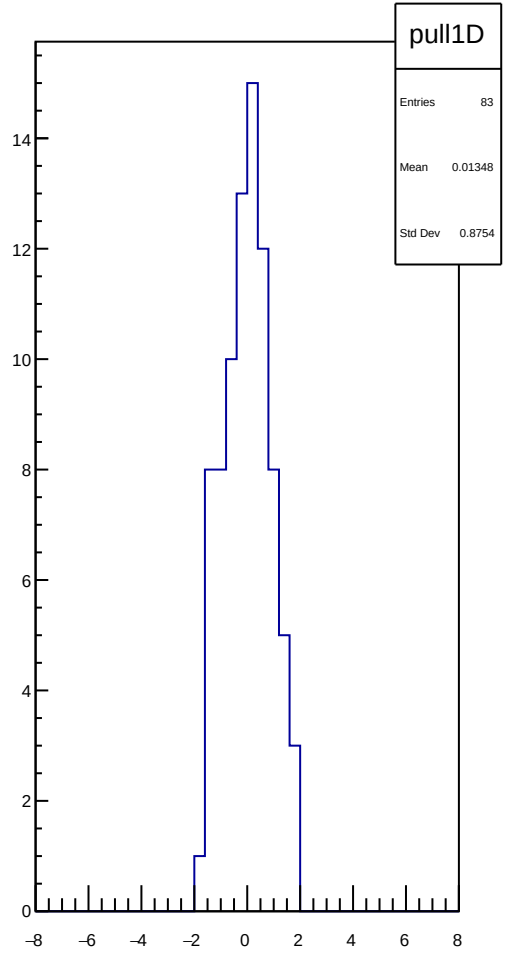

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.621e+04 / 82
p0 50.77 ± 0.04071
100
90
80
70
60
50
40
30

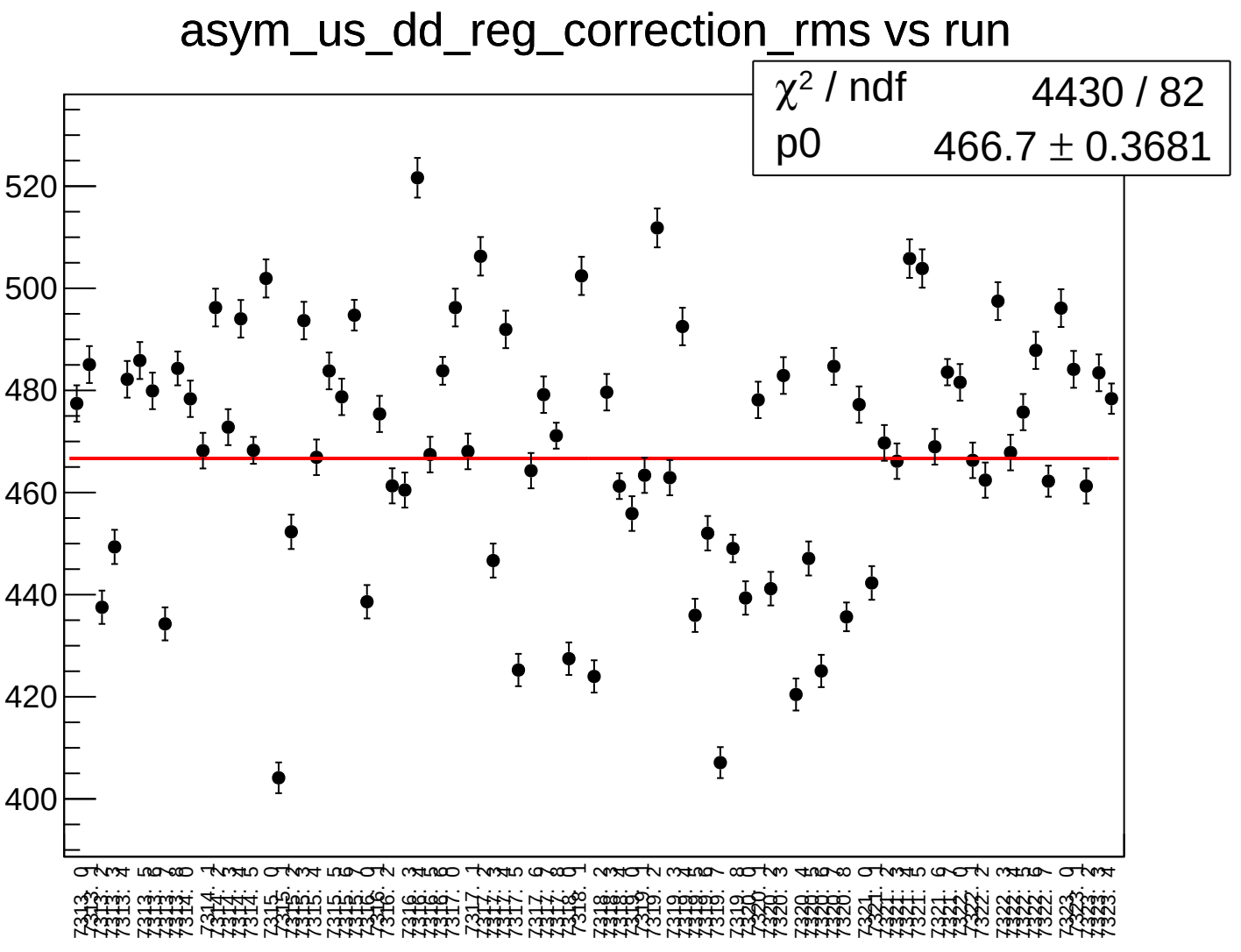

reg_asym_us_dd_mean vs run
χ² / ndf 83.12 / 82
p0 −517.5 ± 863.7
pull
Entries 83
Mean −46.63
Std Dev 0

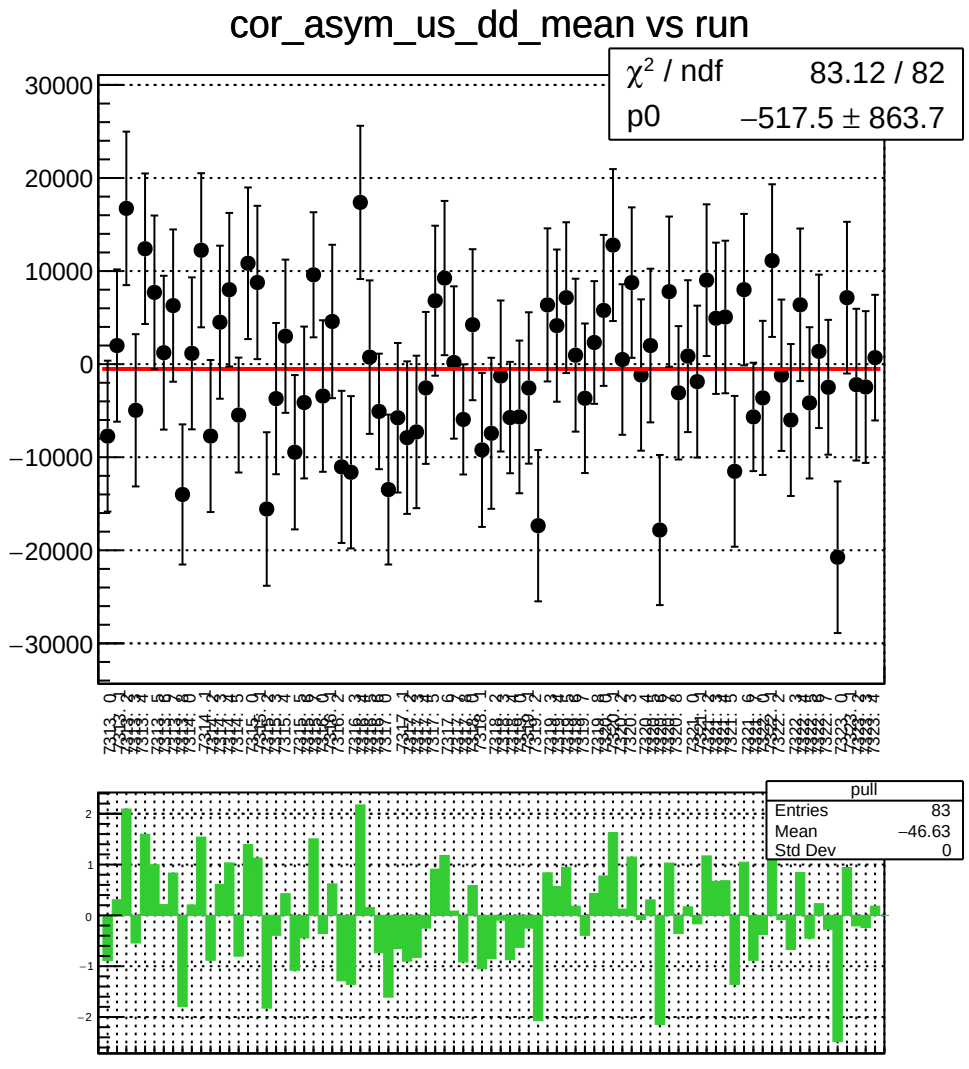

pull1D
Entries 83
Mean 0.01684
Std Dev 1.001

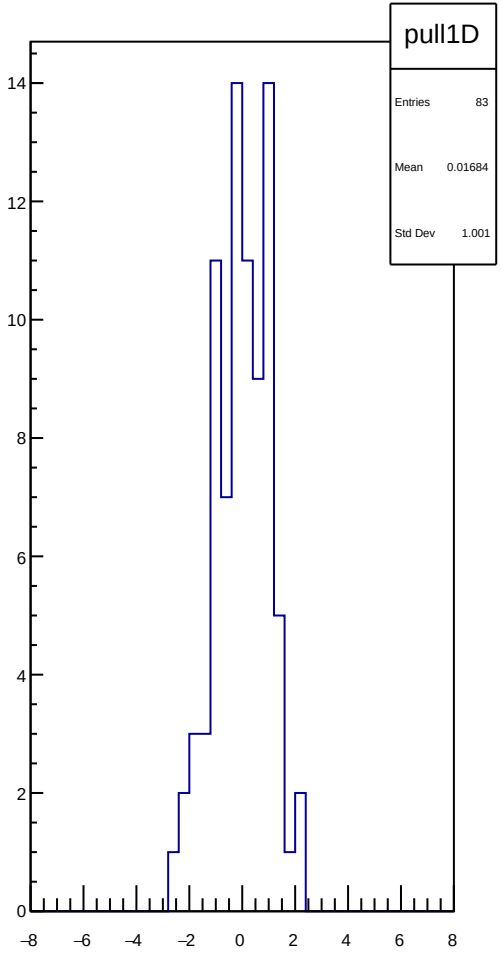

reg_asym_us_dd_rms vs run
χ² / ndf 89.2 / 82
p0 775.3 ± 0.6107
795
790
785
780
775
770
765
760
755

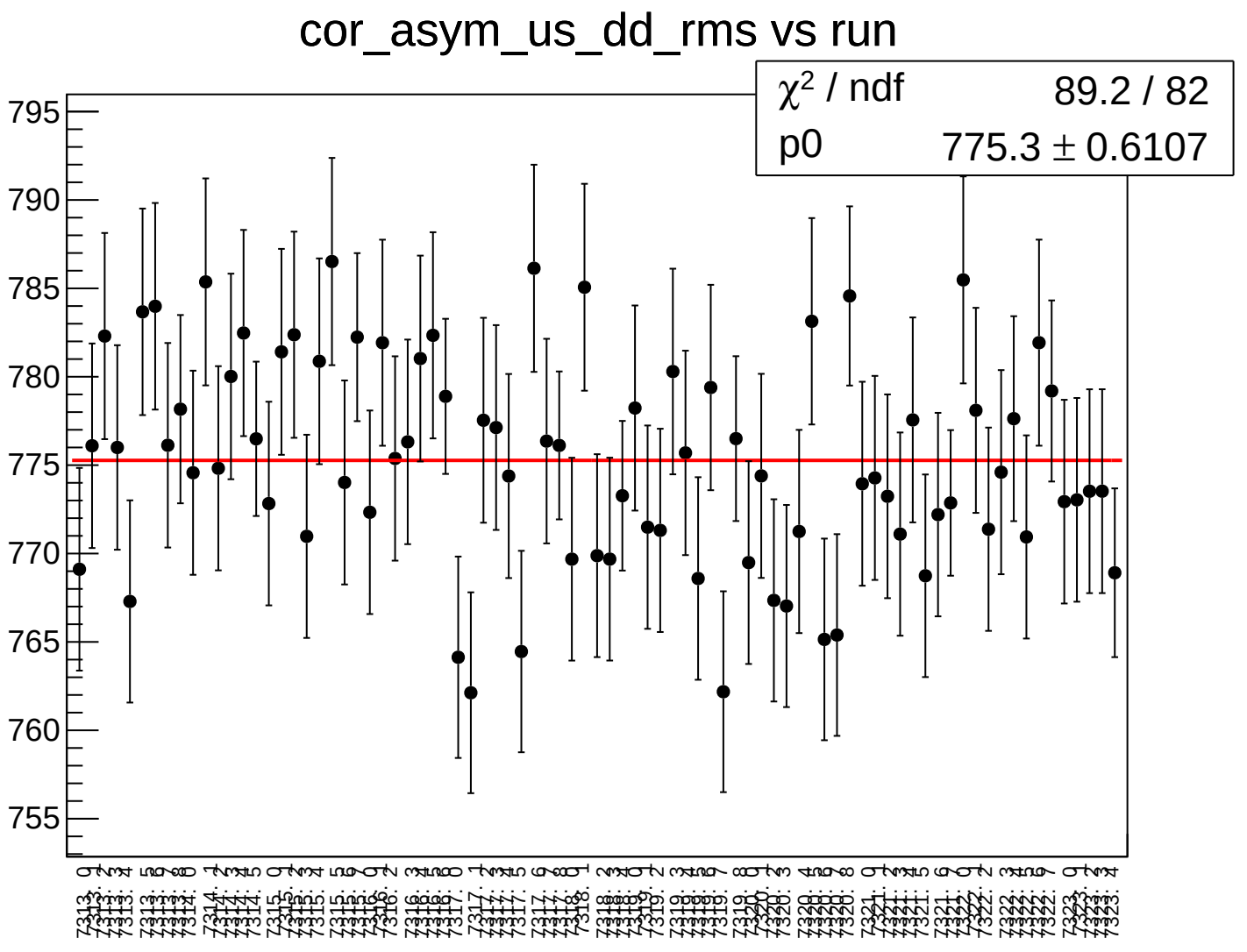

asym_us_dd_reg_correction_mean vs run
χ² / ndf 63.61 / 82
p0 −218.2 ± 520.6
pull
Entries 83
Mean −129.5
Std Dev 0

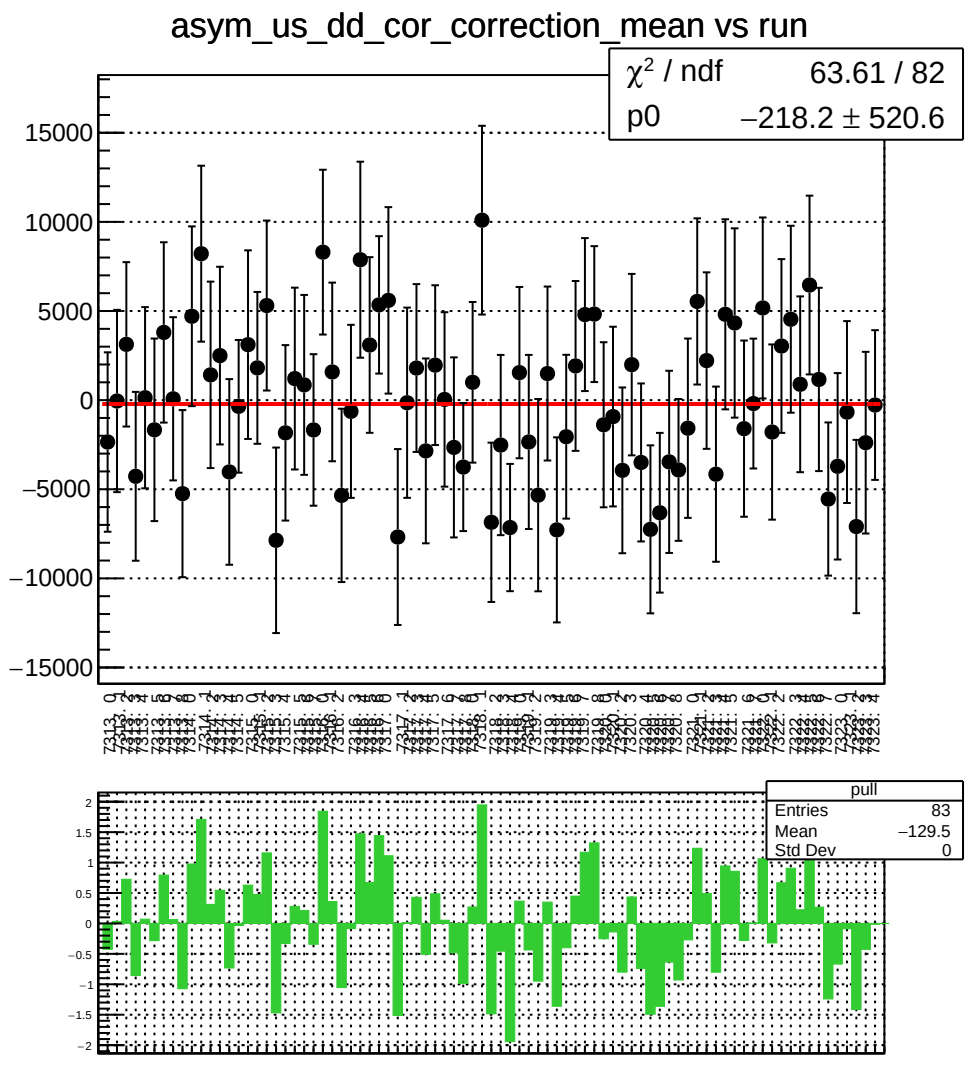

pull1D
Entries 83
Mean 0.01348
Std Dev 0.8754

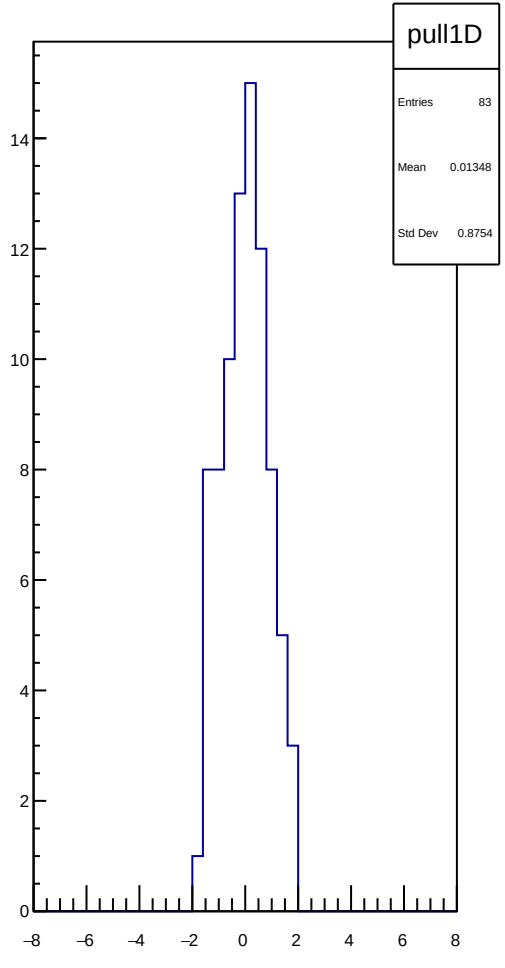

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4430 / 82
p0 466.7 ± 0.3681
520
500
480
460
440
420
400

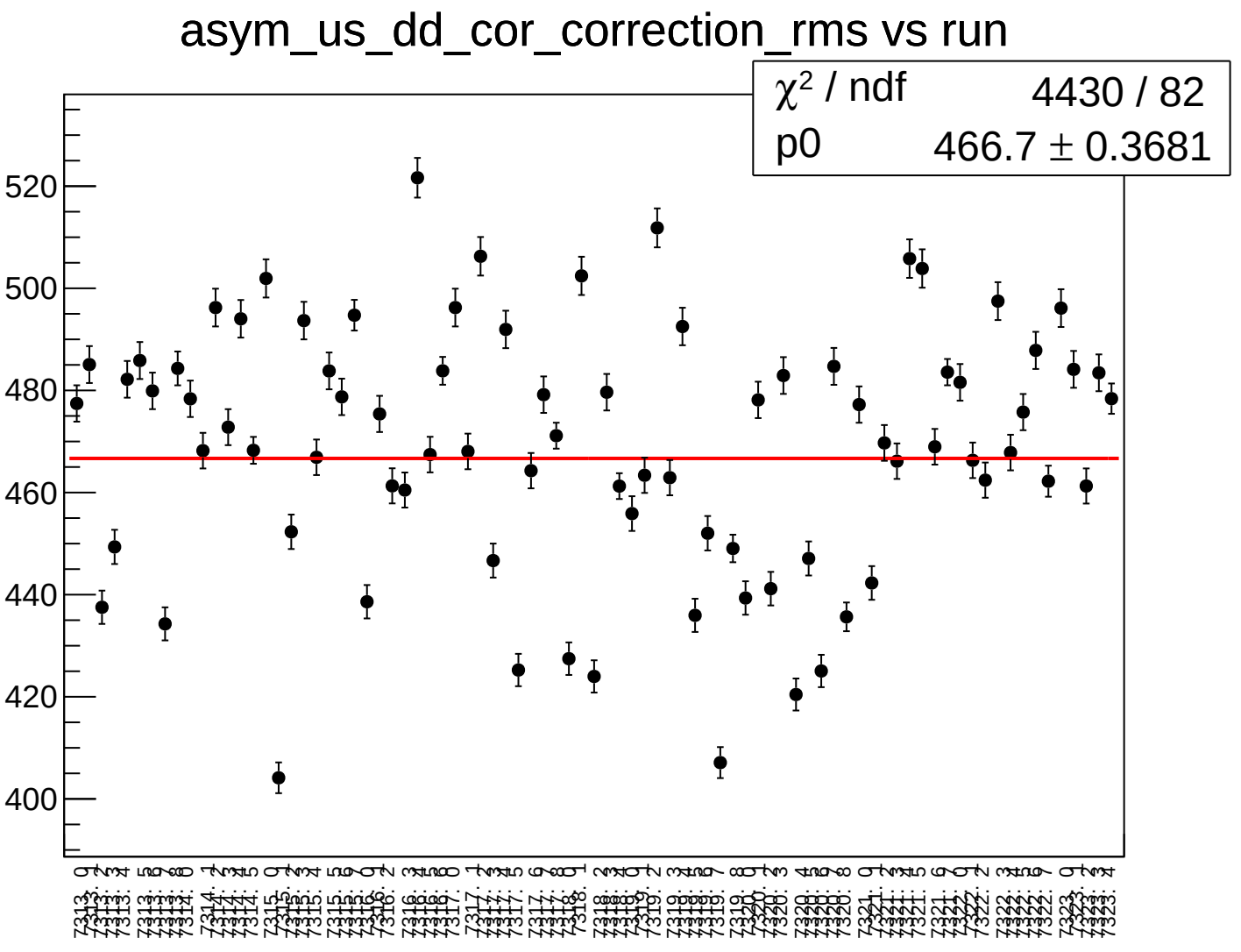

cor_asym_us_dd_mean vs run
χ² / ndf 83.12 / 82
p0 −517.5 ± 863.7
pull
Entries 83
Mean −46.63
Std Dev 0

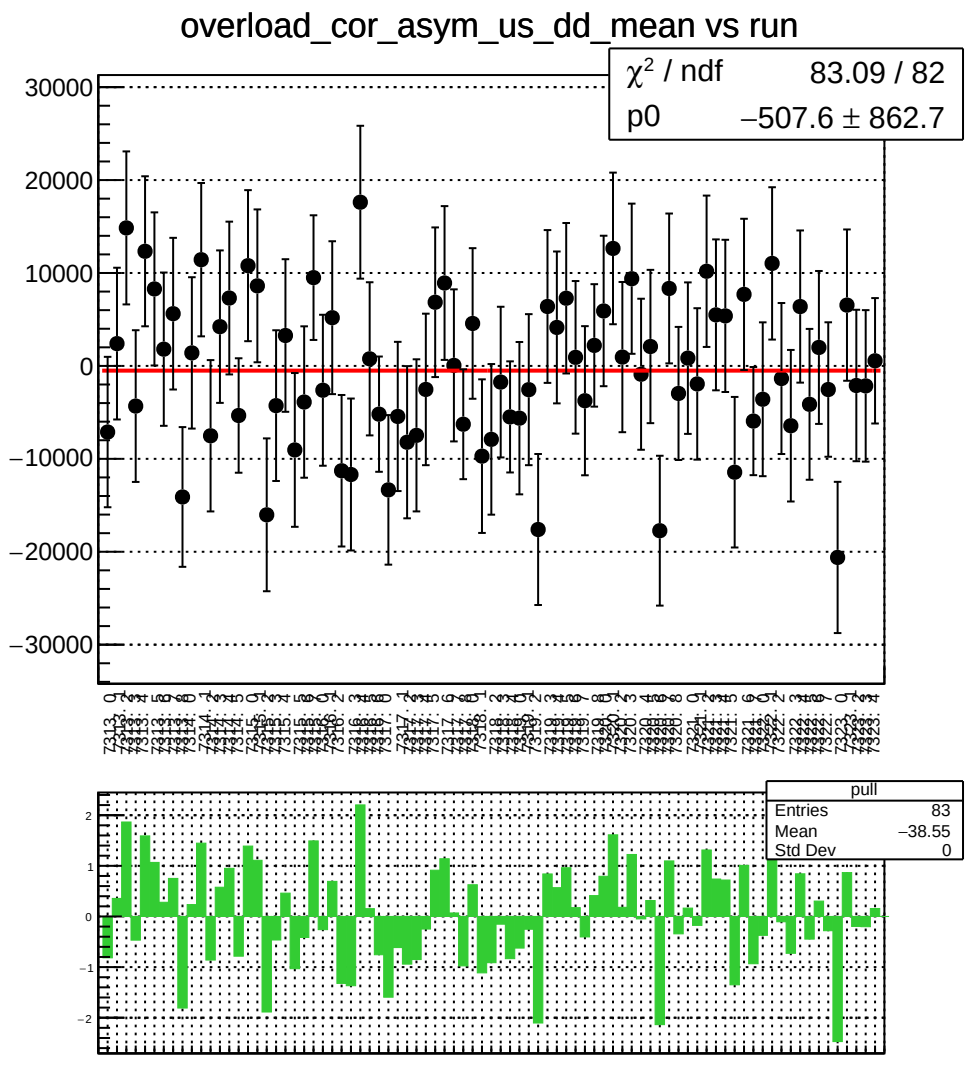

pull1D
Entries 83
Mean 0.01684
Std Dev 1.001

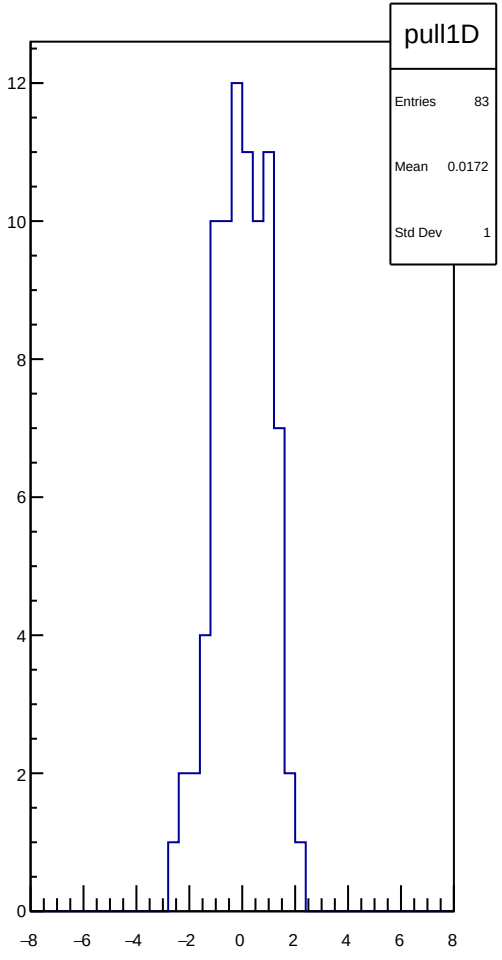

cor_asym_us_dd_rms vs run
χ² / ndf 89.2 / 82
p0 775.3 ± 0.6107
795
790
785
780
775
770
765
760
755

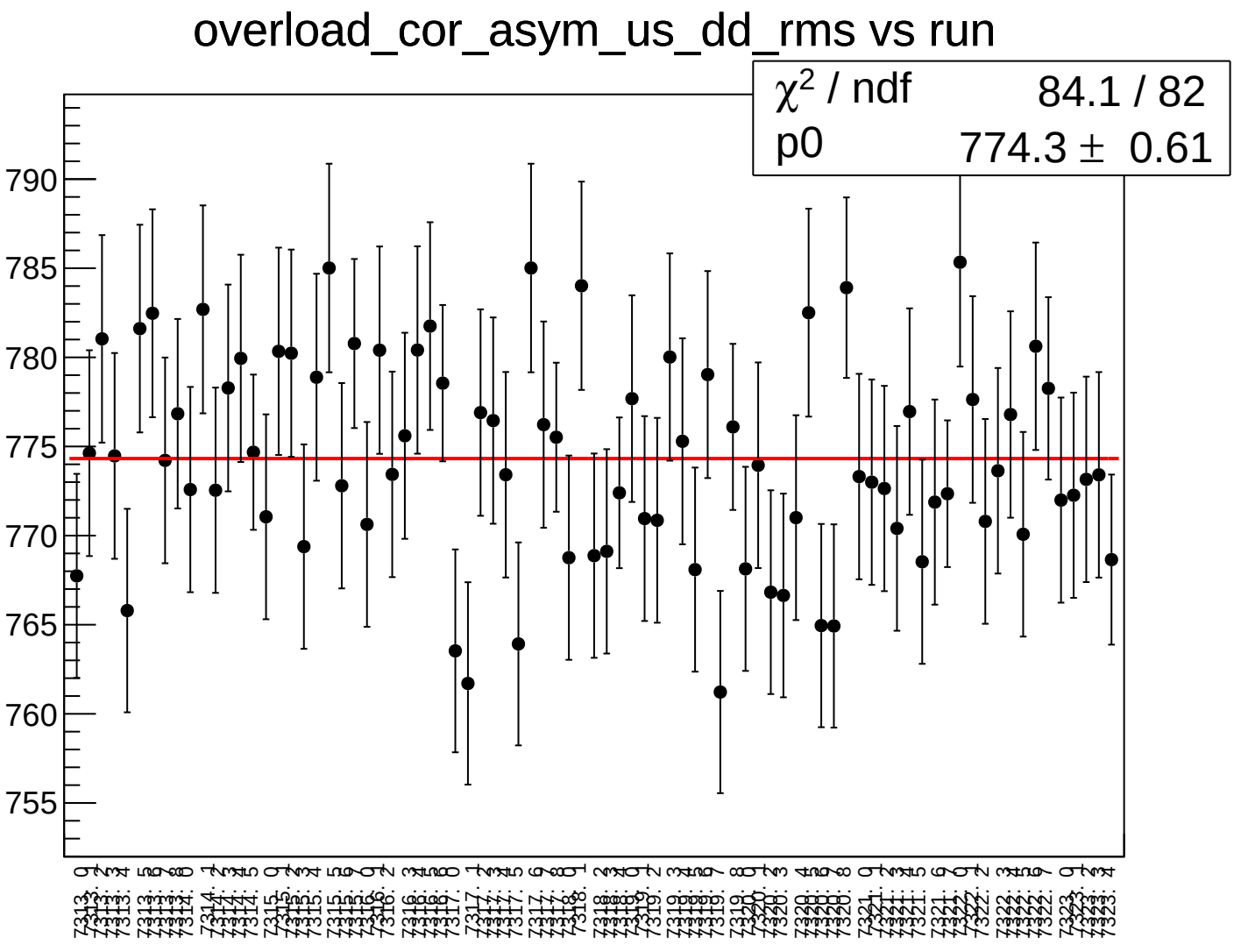

asym_us_dd_cor_correction_mean vs run
χ² / ndf 63.61 / 82
p0 −218.2 ± 520.6
pull
Entries 83
Mean −129.5
Std Dev 0

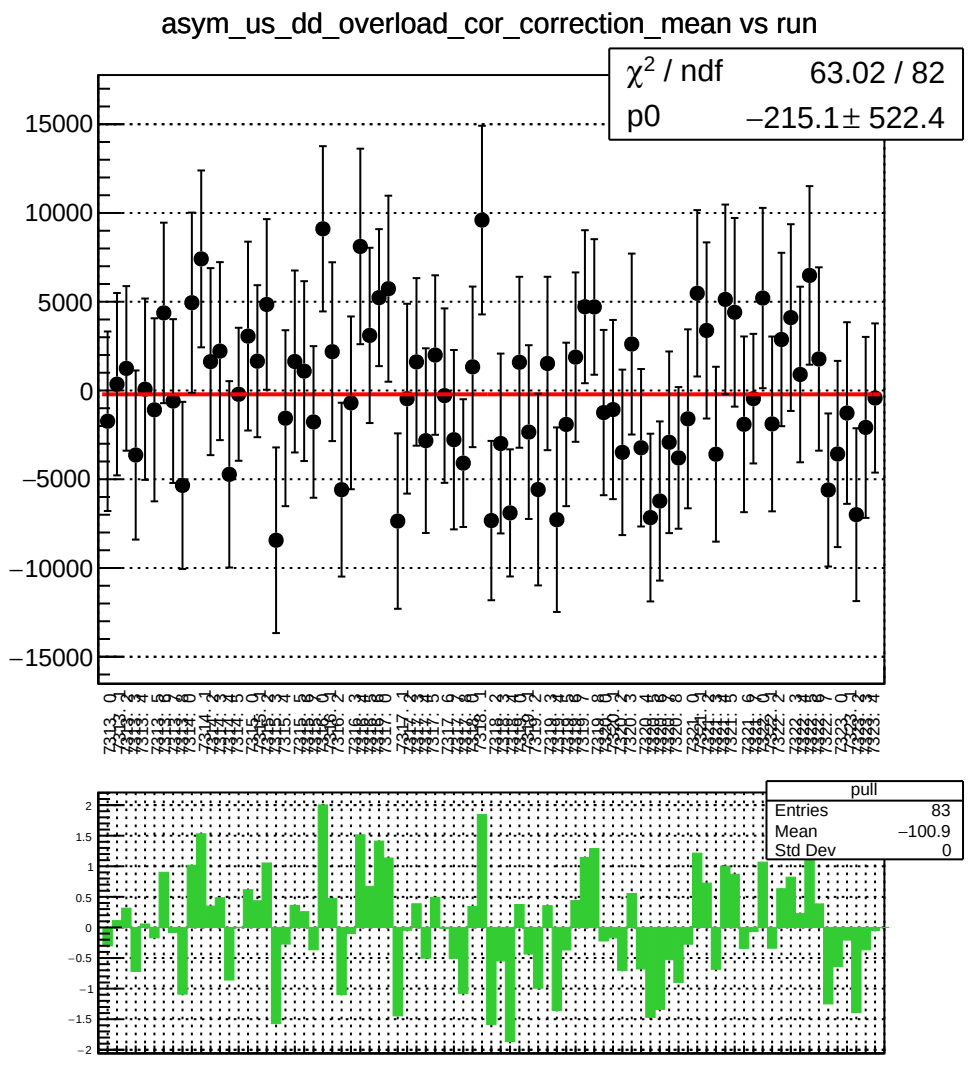

pull1D
Entries 83
Mean 0.01348
Std Dev 0.8754

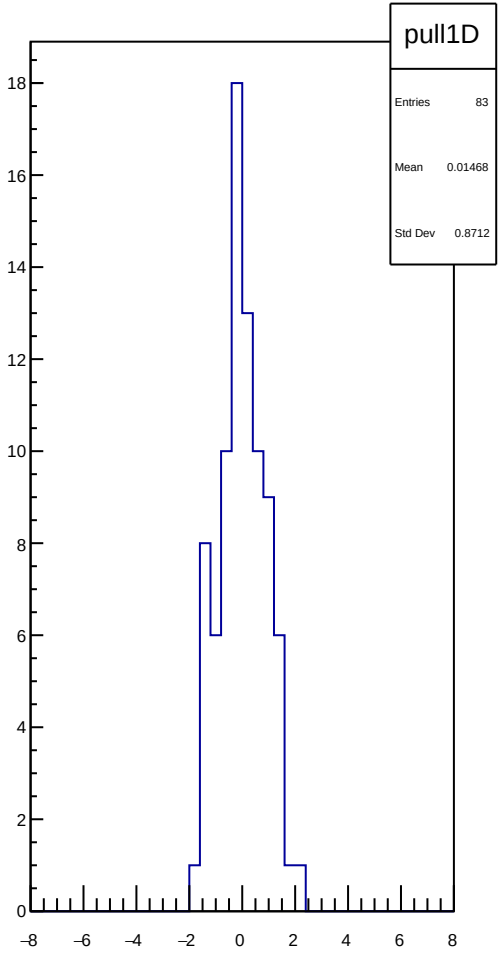

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4430 / 82
p0 466.7 ± 0.3681
520
500
480
460
440
420
400

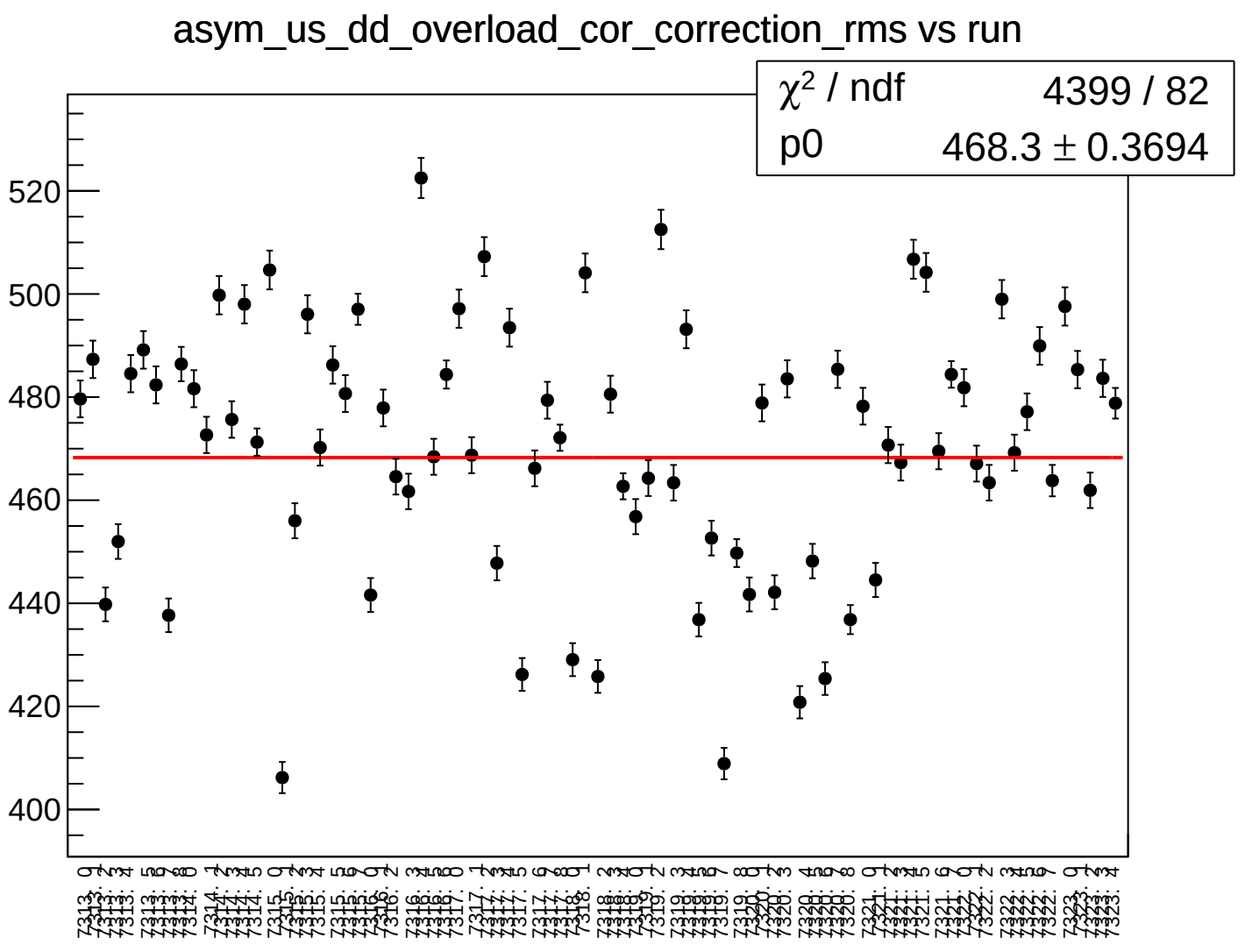

overload_cor_asym_us_dd_mean vs run
χ² / ndf 83.09 / 82
p0 −507.6 ± 862.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −38.55
Std Dev 0
2
1
0
−1
−2

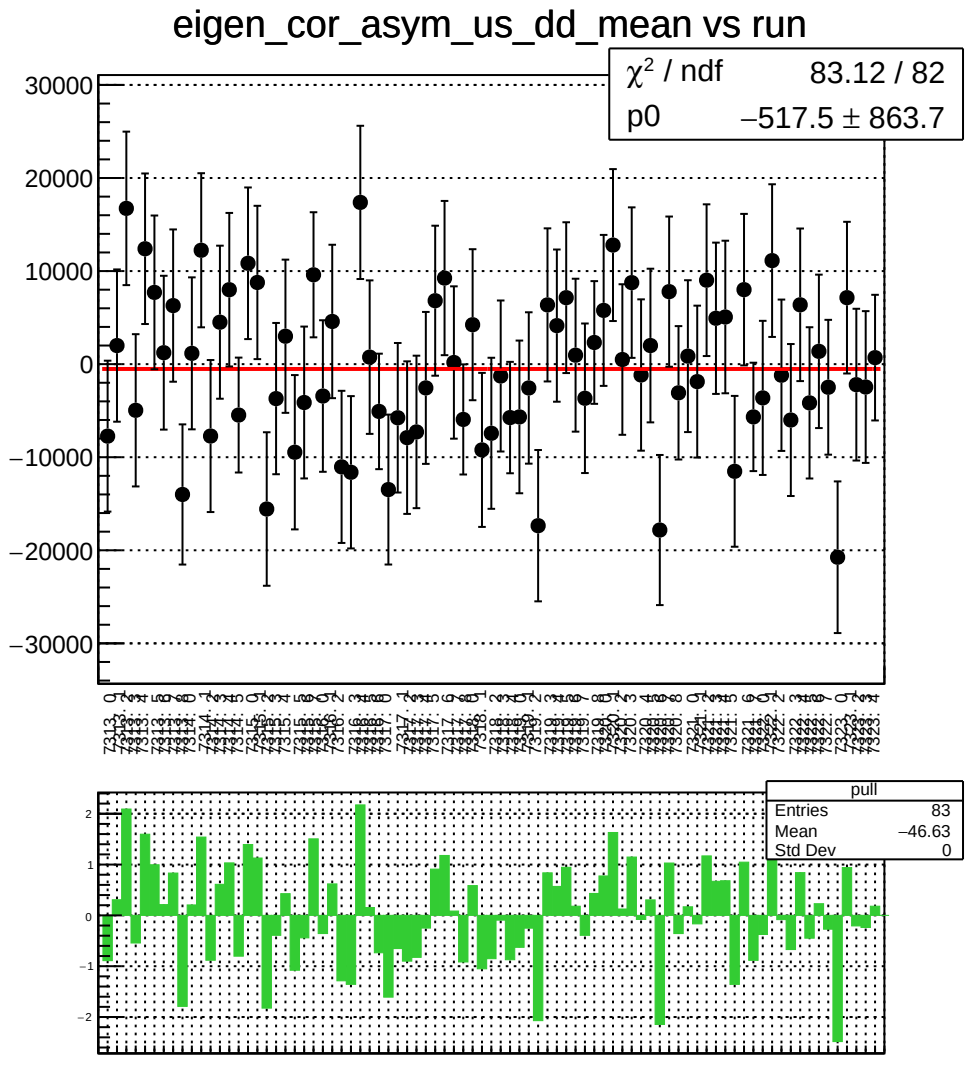

pull1D
Entries 83
Mean 0.0172
Std Dev 1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

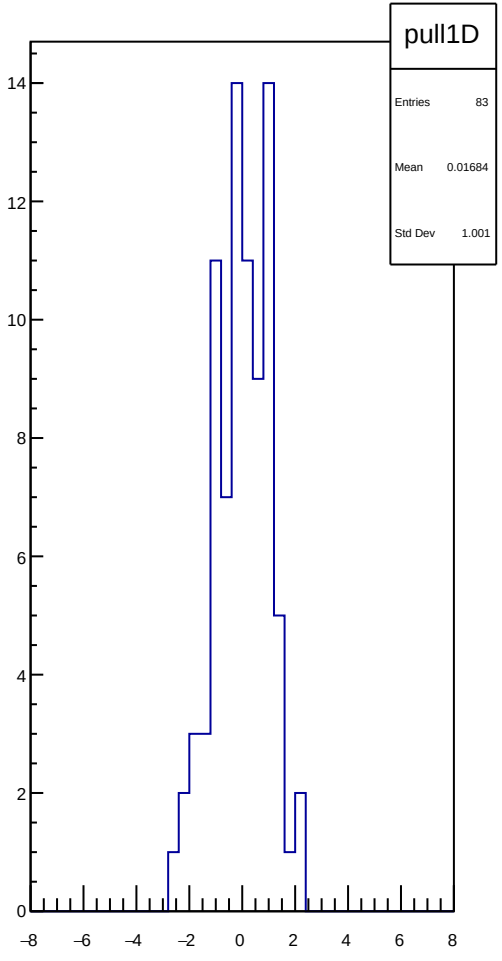

overload_cor_asym_us_dd_rms vs run
χ² / ndf 84.1 / 82
p0 774.3 ± 0.61
790
785
780
775
770
765
760
755

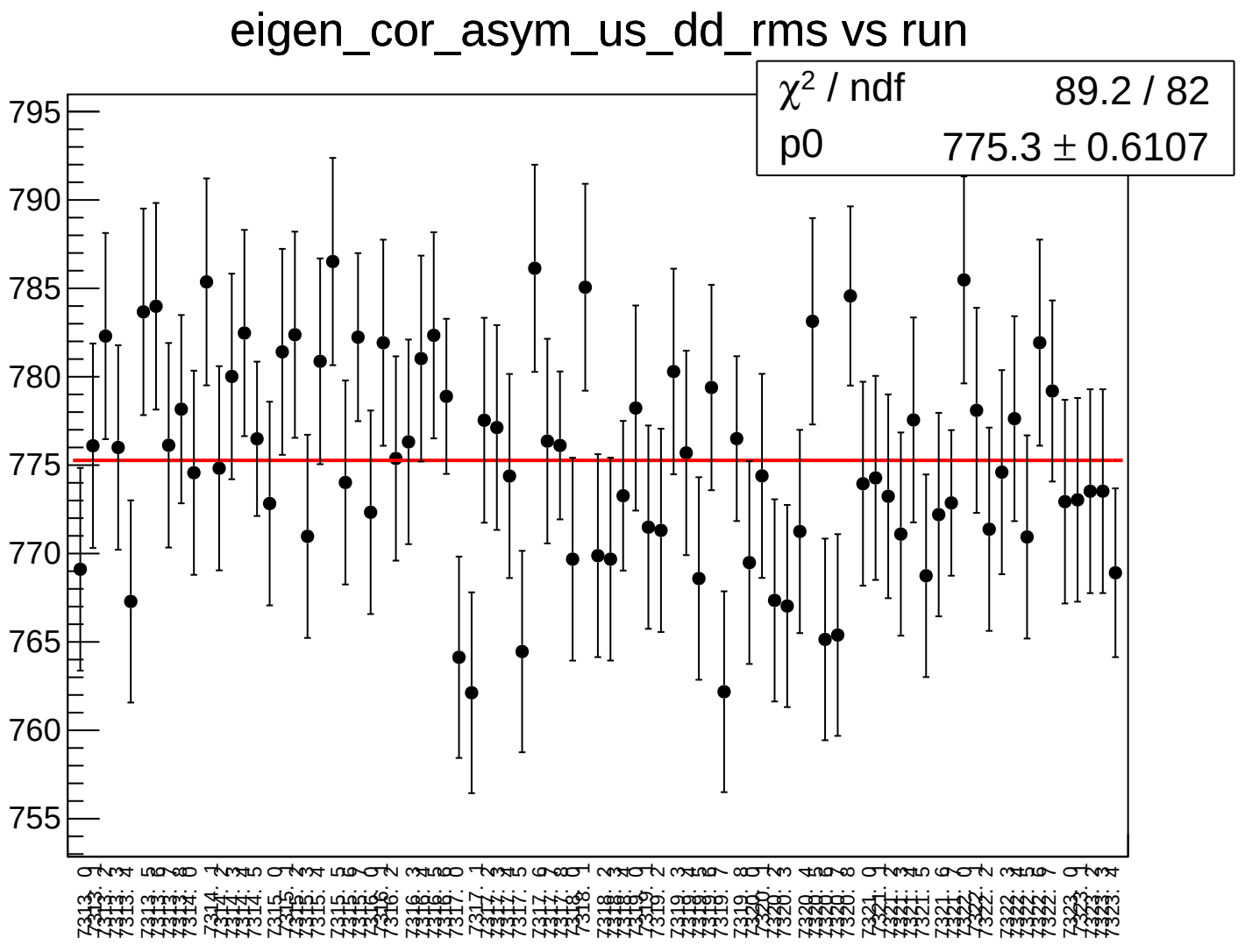

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 63.02 / 82
p0 −215.1 ± 522.4
pull
Entries 83
Mean −100.9
Std Dev 0

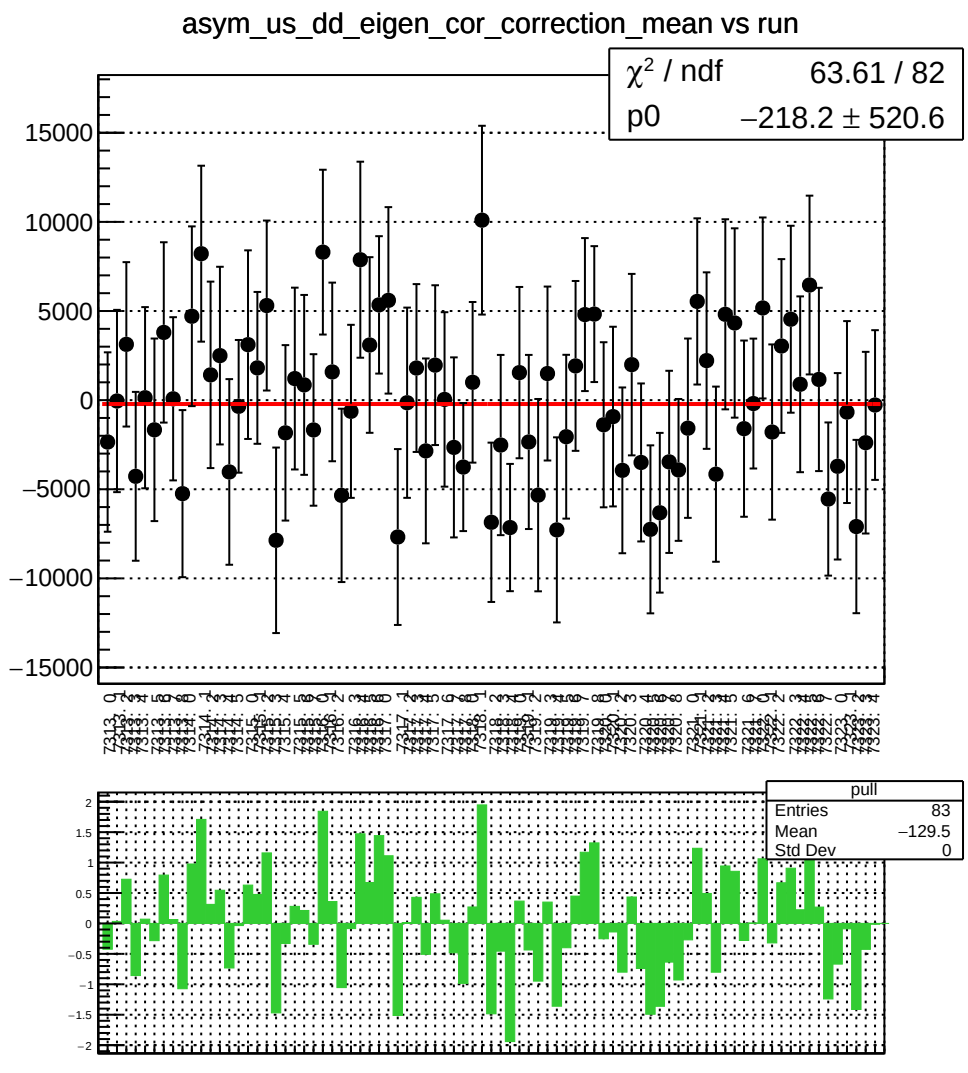

pull1D
Entries 83
Mean 0.01468
Std Dev 0.8712

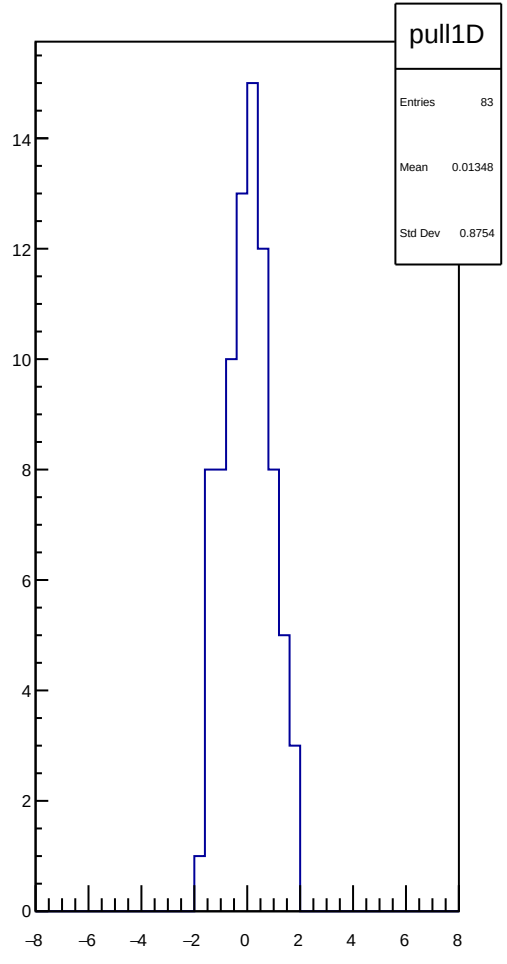

asym_us_dd_overload_cor_correction_rms vs run
χ^2 / ndf 4399 / 82
p0 468.3 ± 0.3694
520
500
480
460
440
420
400

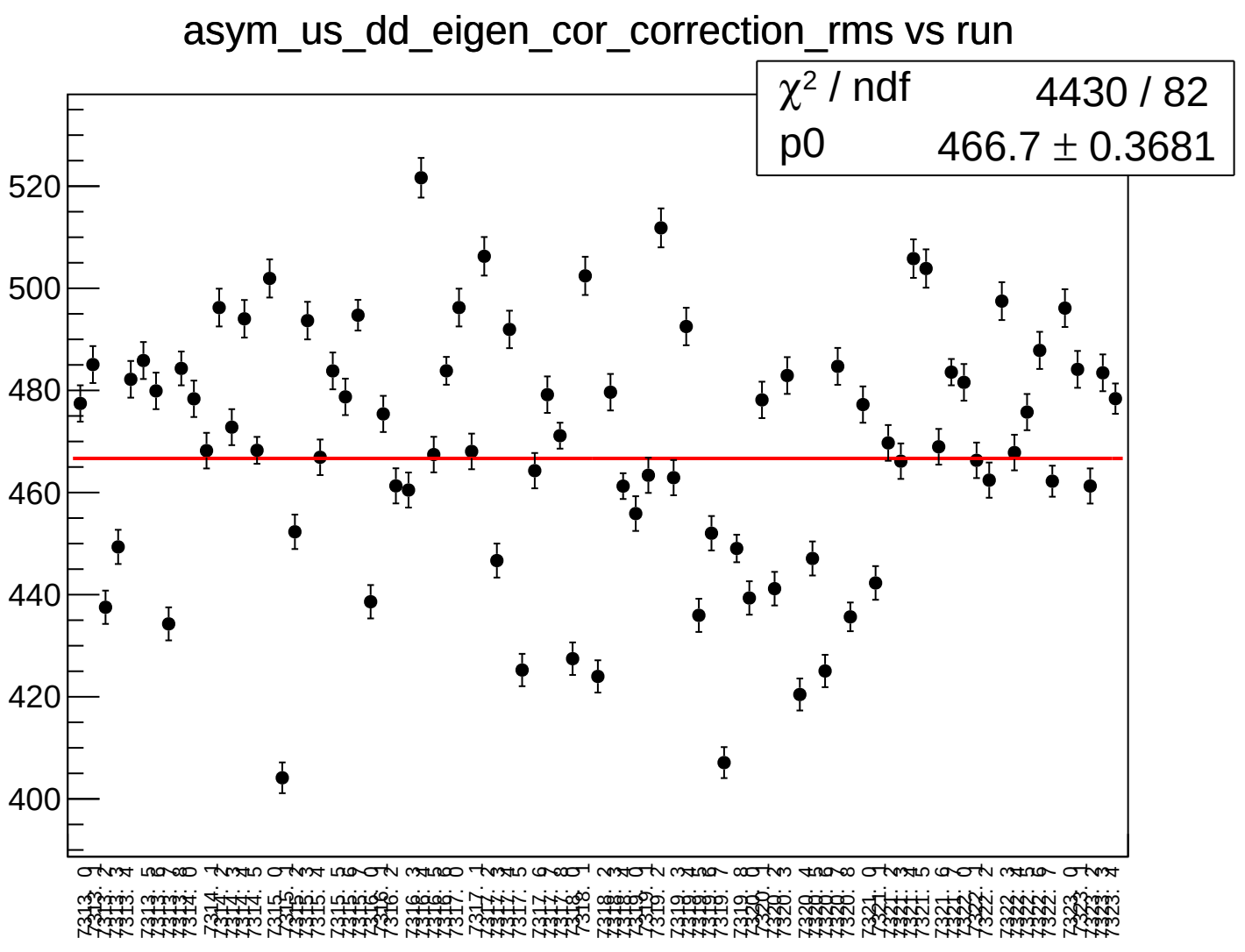

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 83.12 / 82
p0 −517.5 ± 863.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −46.63
Std Dev 0
2
1
0
−1
−2

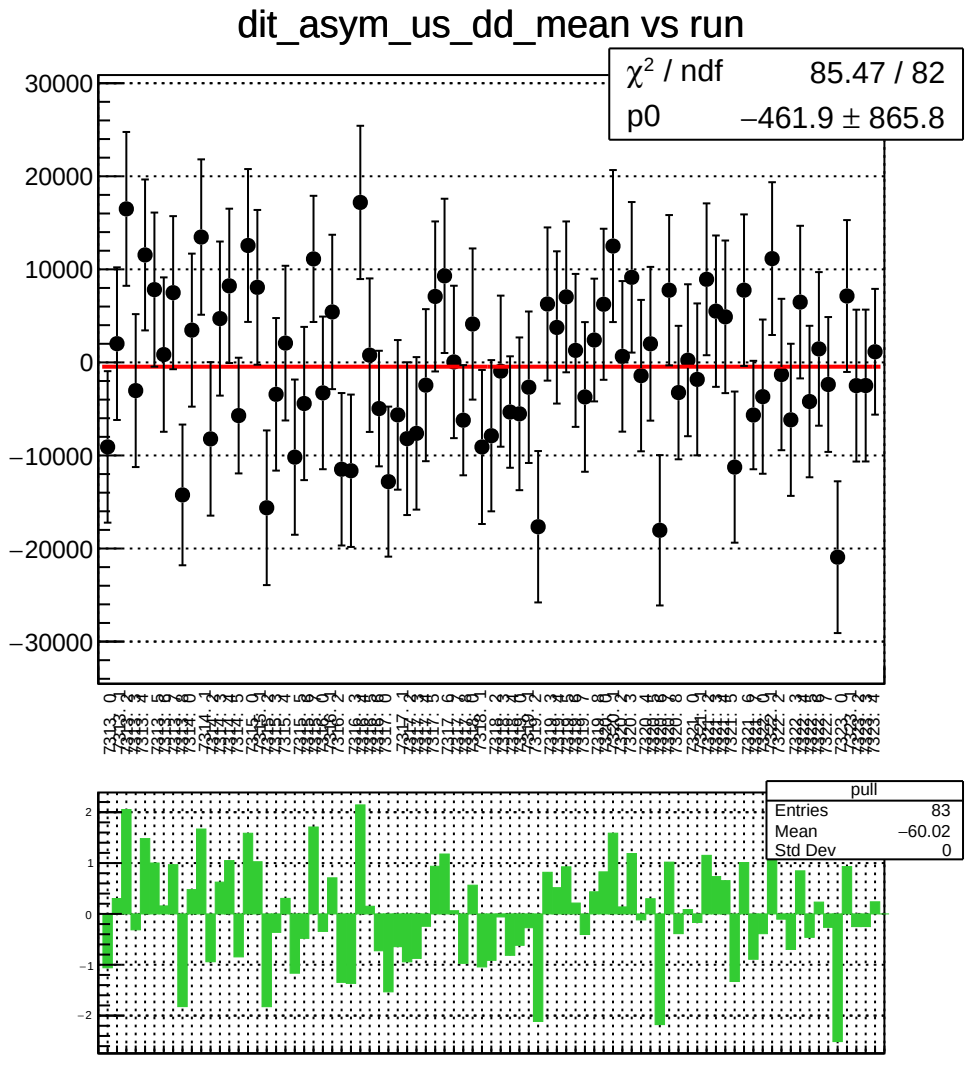

pull1D
Entries 83
Mean 0.01684
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

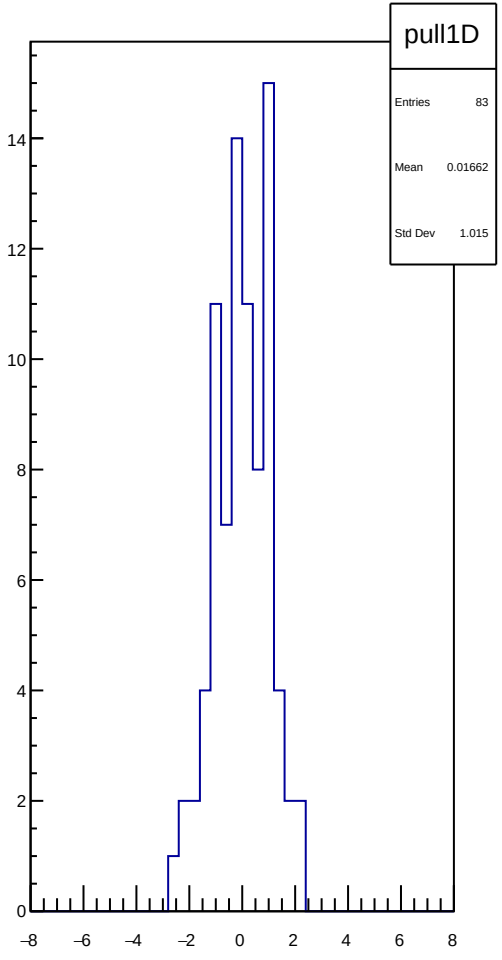

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 89.2 / 82
p0 775.3 ± 0.6107
795
790
785
780
775
770
765
760
755

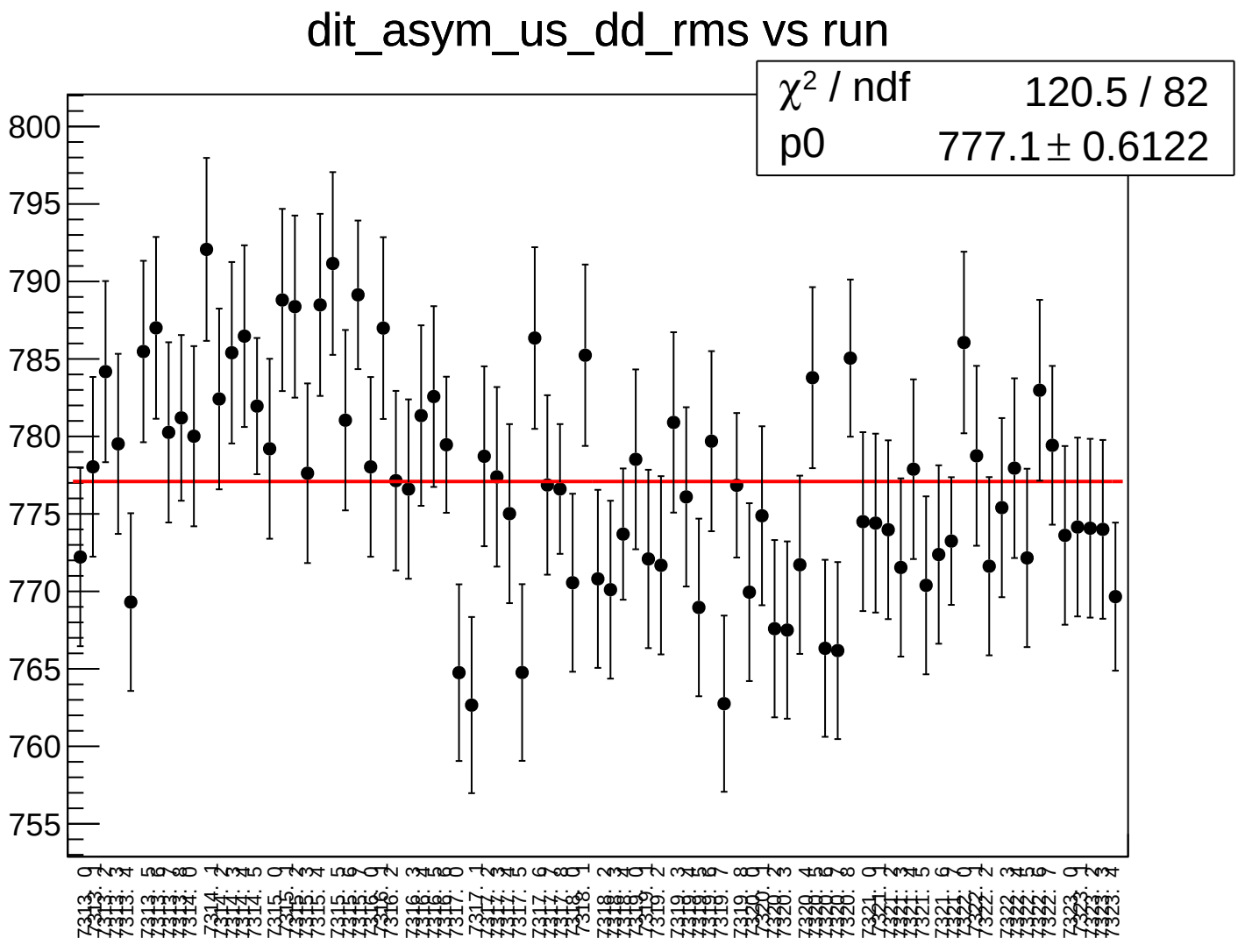

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.61 / 82
p0 −218.2 ± 520.6
pull
Entries 83
Mean −129.5
Std Dev 0

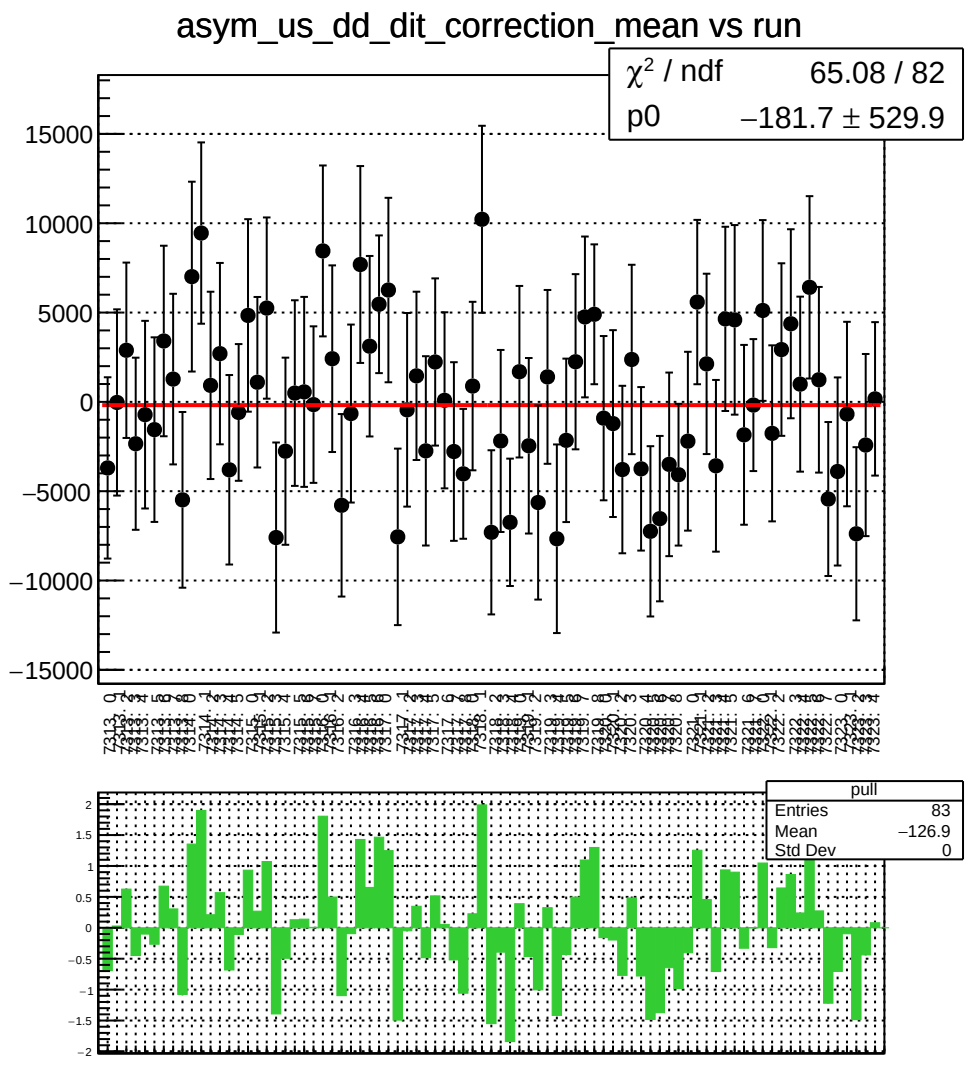

pull1D
Entries 83
Mean 0.01348
Std Dev 0.8754

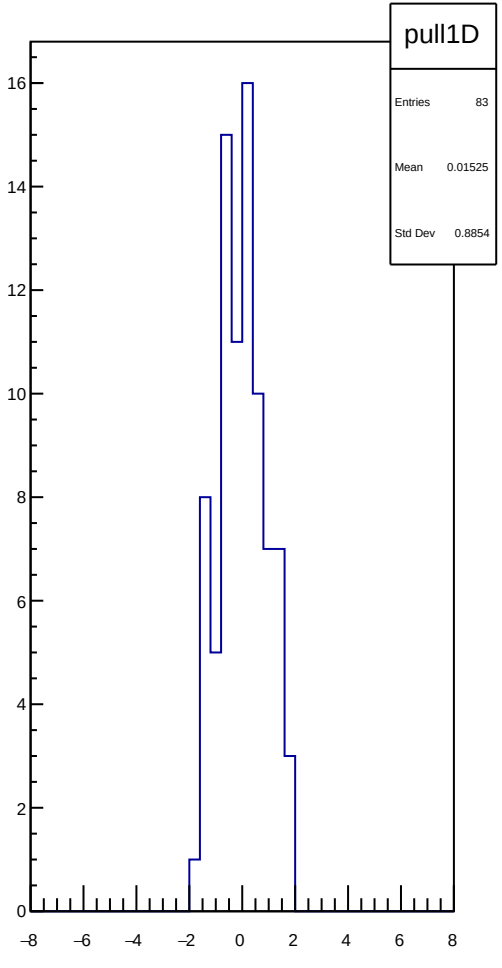

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4430 / 82
p0 466.7 ± 0.3681
520
500
480
460
440
420
400

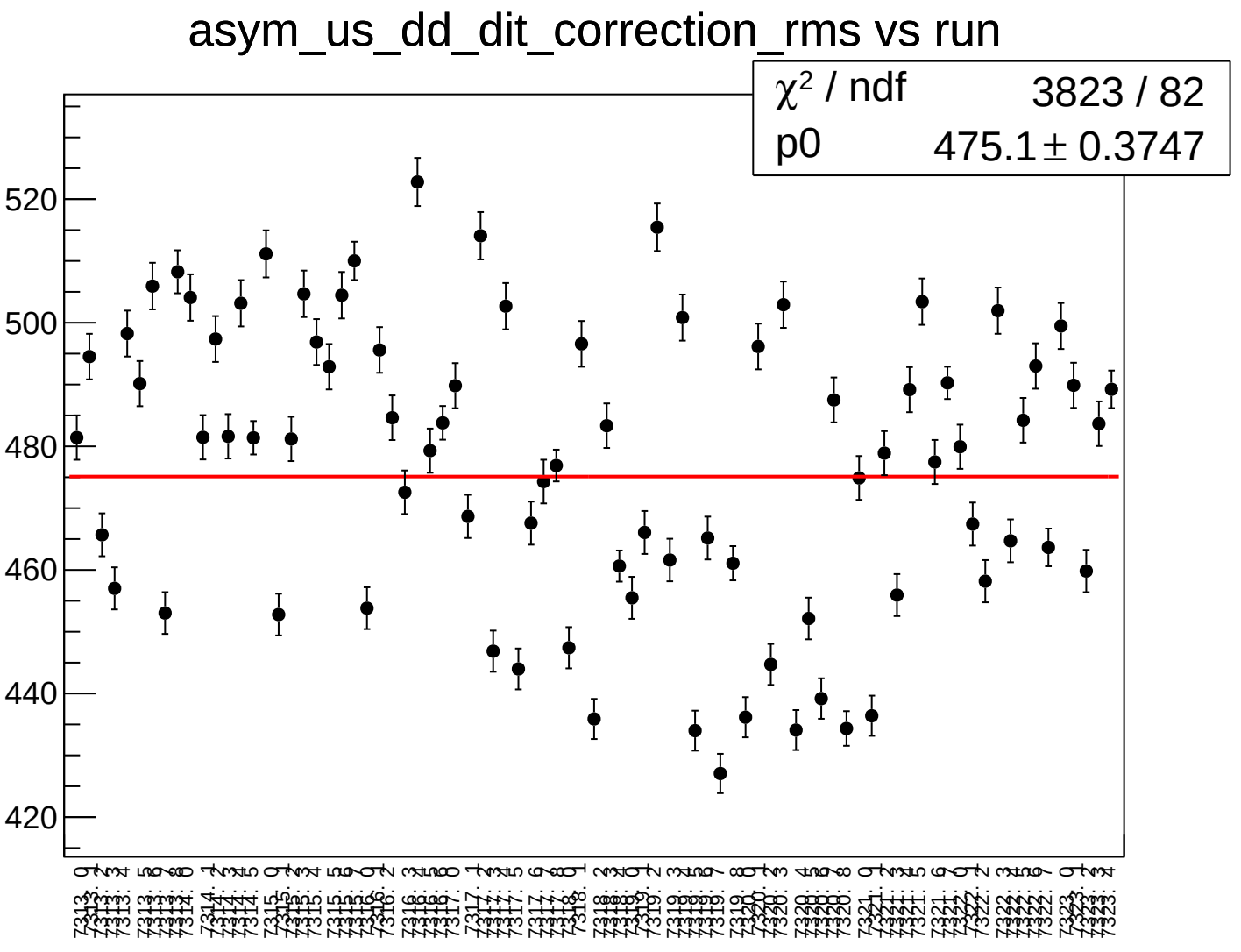

dit_asym_us_dd_mean vs run
χ² / ndf 85.47 / 82
p0 −461.9 ± 865.8
pull
Entries 83
Mean −60.02
Std Dev 0

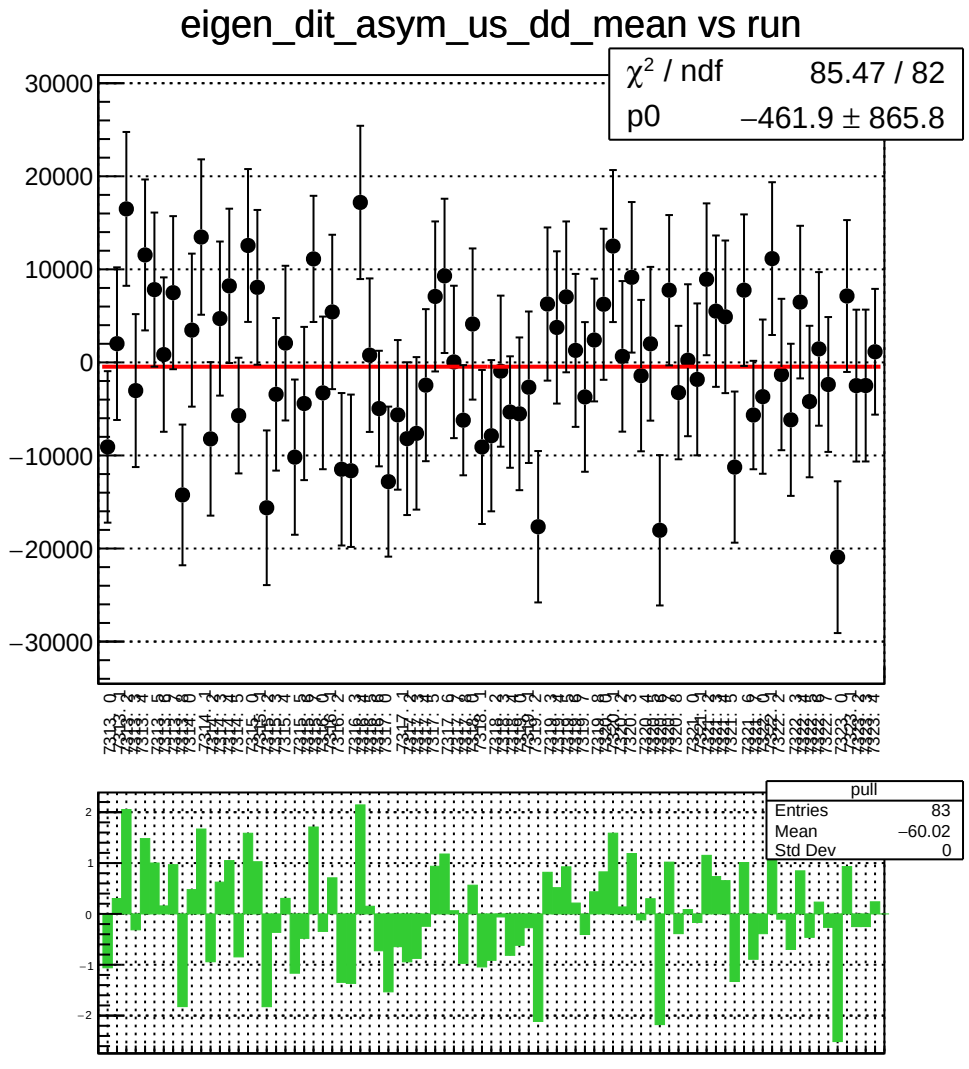

pull1D
Entries 83
Mean 0.01662
Std Dev 1.015

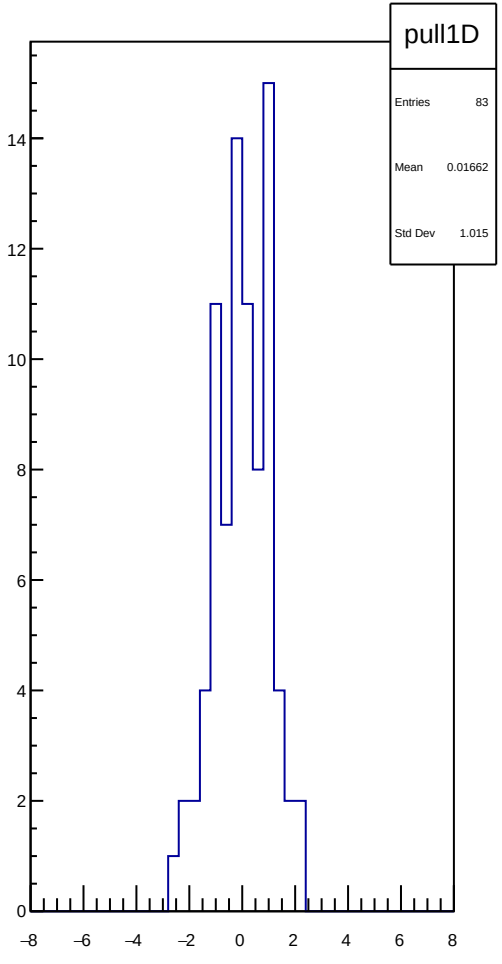

dit_asym_us_dd_rms vs run
χ² / ndf 120.5 / 82
p0 777.1 ± 0.6122
800
795
790
785
780
775
770
765
760
755

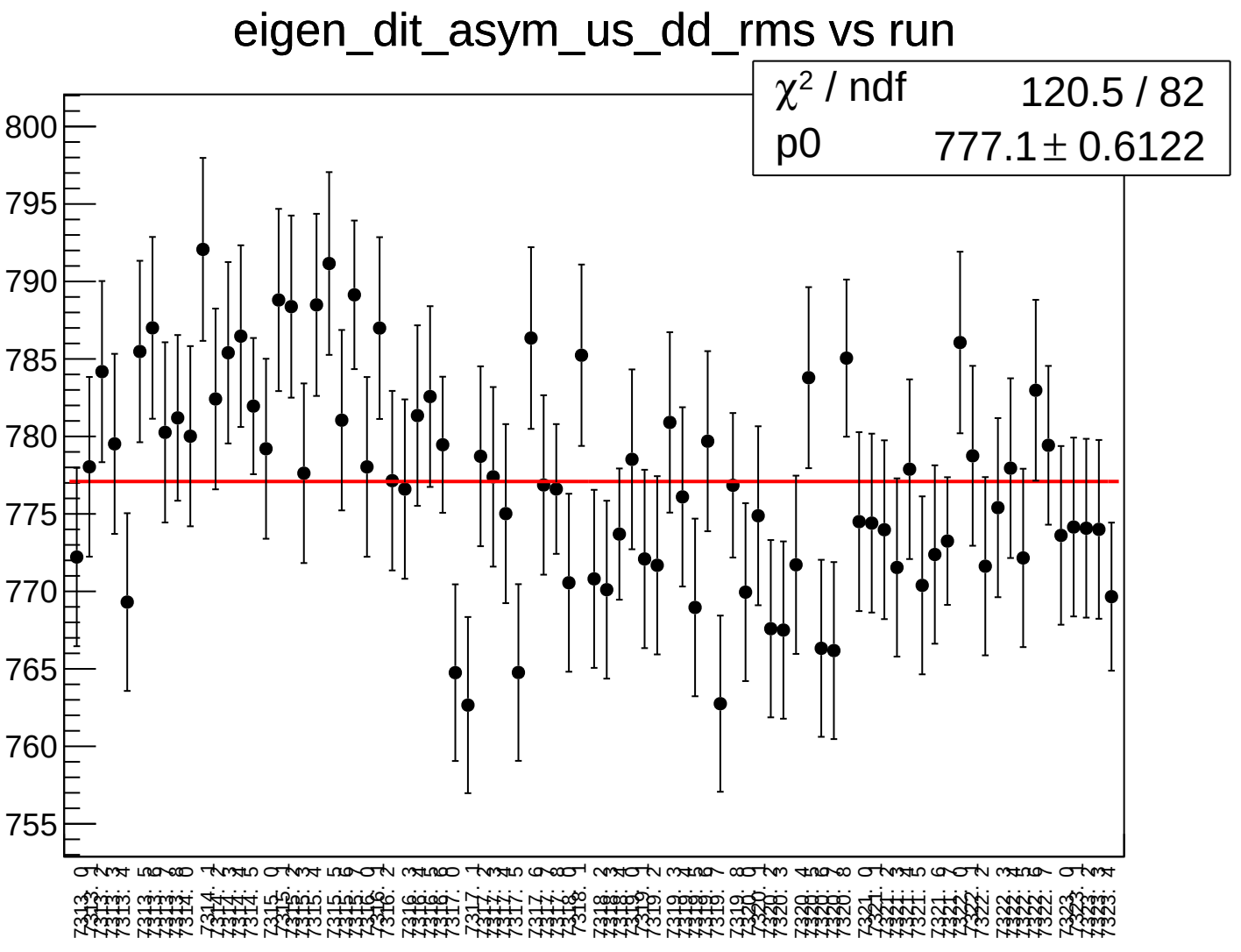

asym_us_dd_dit_correction_mean vs run
χ² / ndf 65.08 / 82
p0 −181.7 ± 529.9
pull
Entries 83
Mean −126.9
Std Dev 0

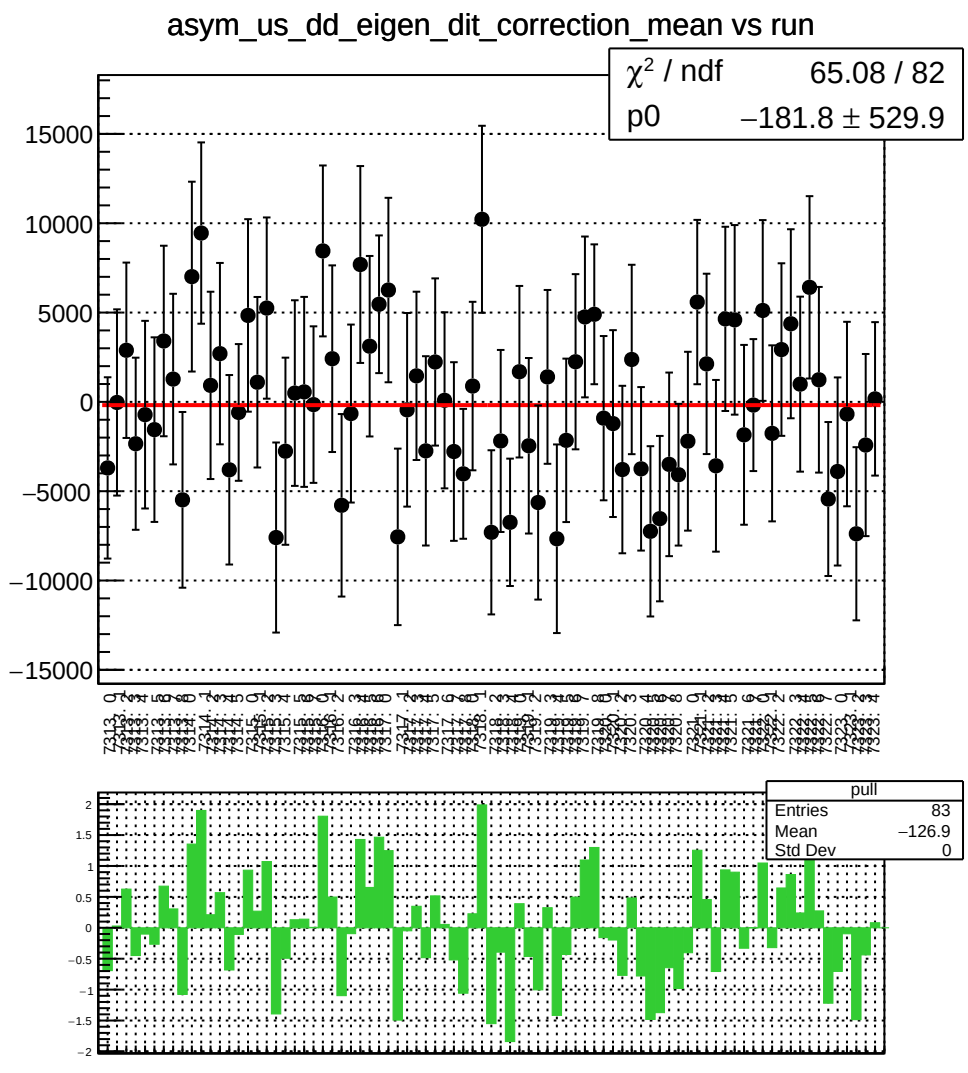

pull1D
Entries 83
Mean 0.01525
Std Dev 0.8854

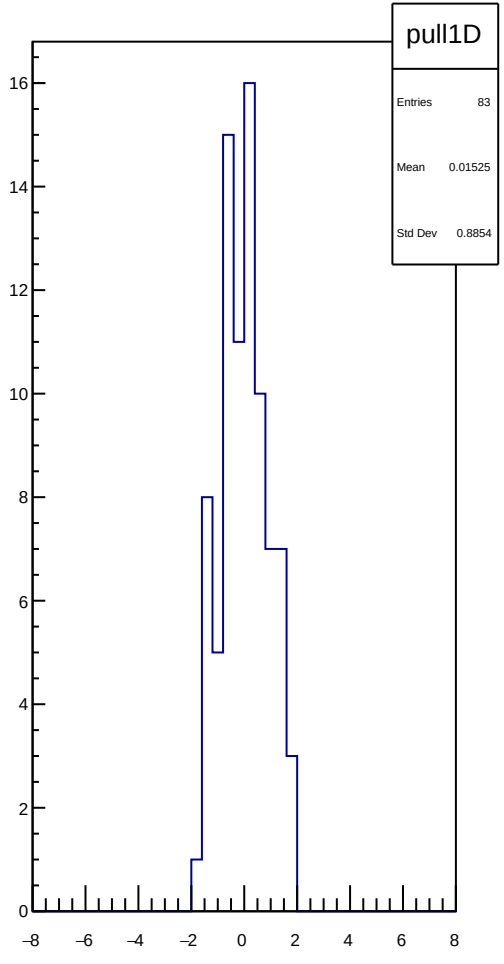

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3823 / 82
p0 475.1 ± 0.3747
520
500
480
460
440
420

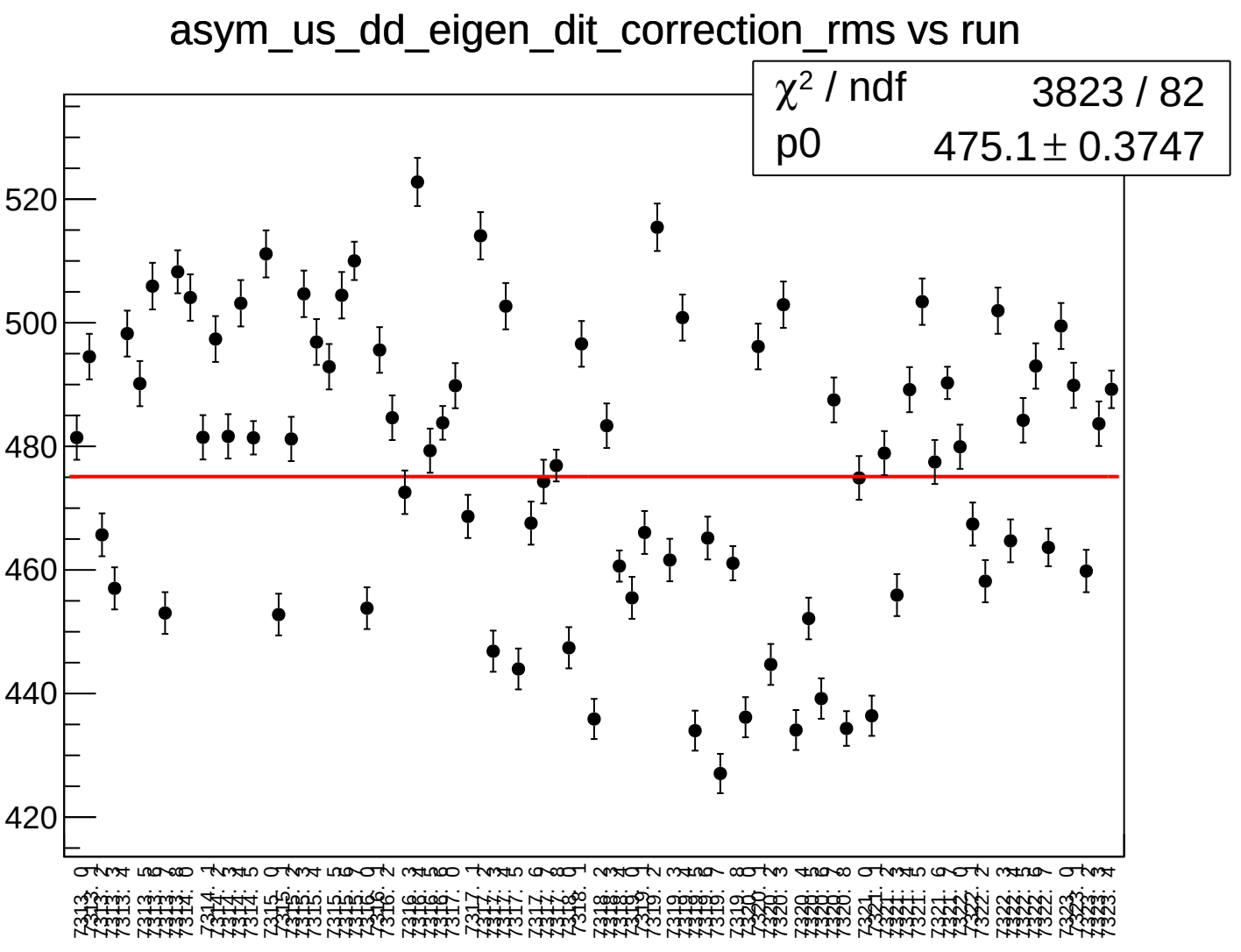

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 85.47 / 82
p0 −461.9 ± 865.8
pull
Entries 83
Mean −60.02
Std Dev 0

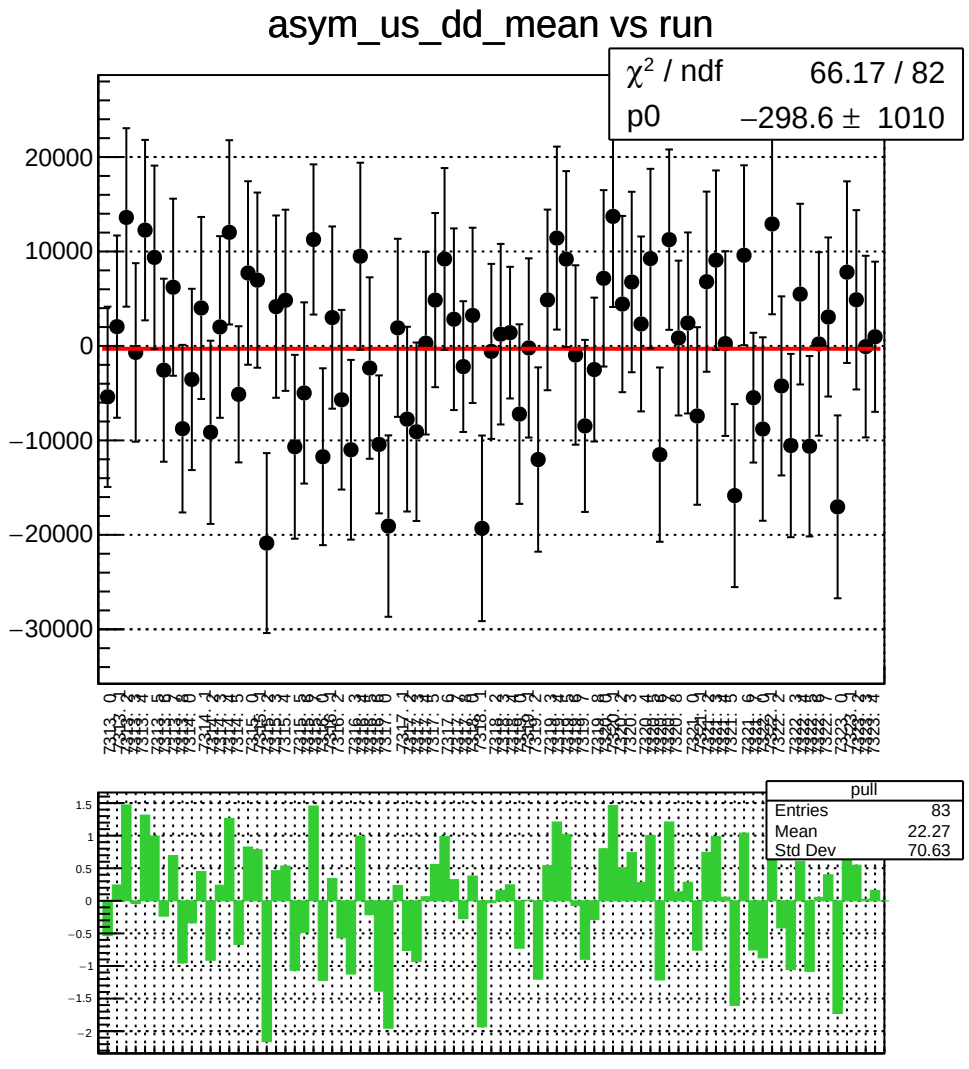

pull1D
Entries 83
Mean 0.01662
Std Dev 1.015

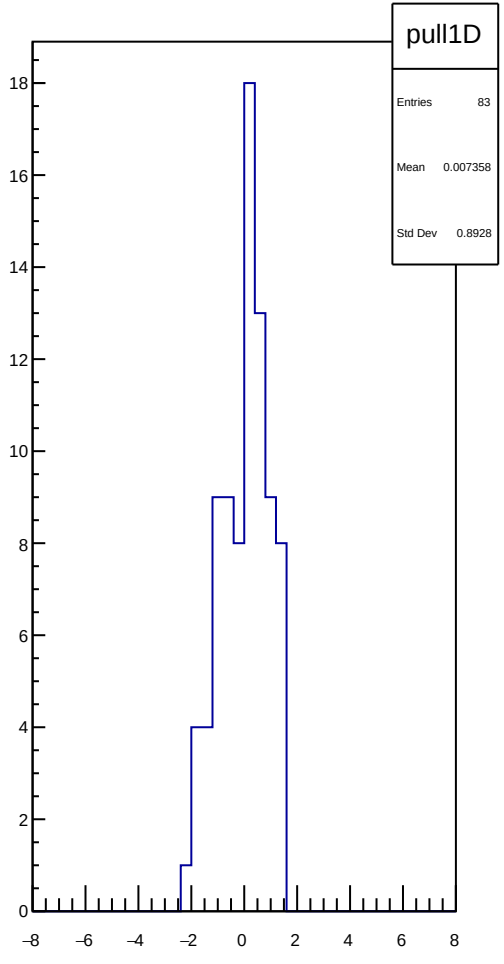

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 120.5 / 82
p0 777.1 ± 0.6122
800
795
790
785
780
775
770
765
760
755

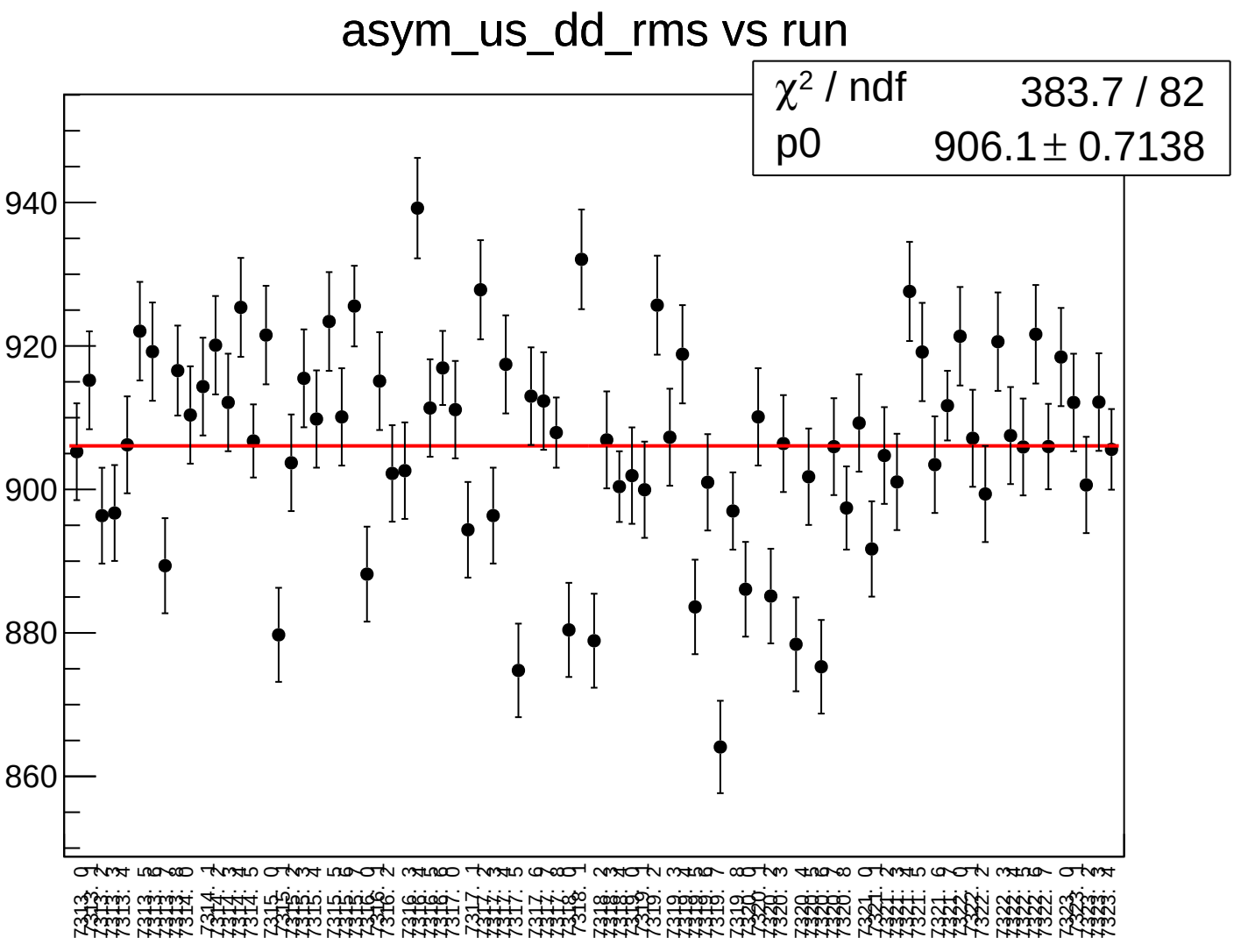

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.08 / 82
p0 −181.8 ± 529.9
pull
Entries 83
Mean −126.9
Std Dev 0

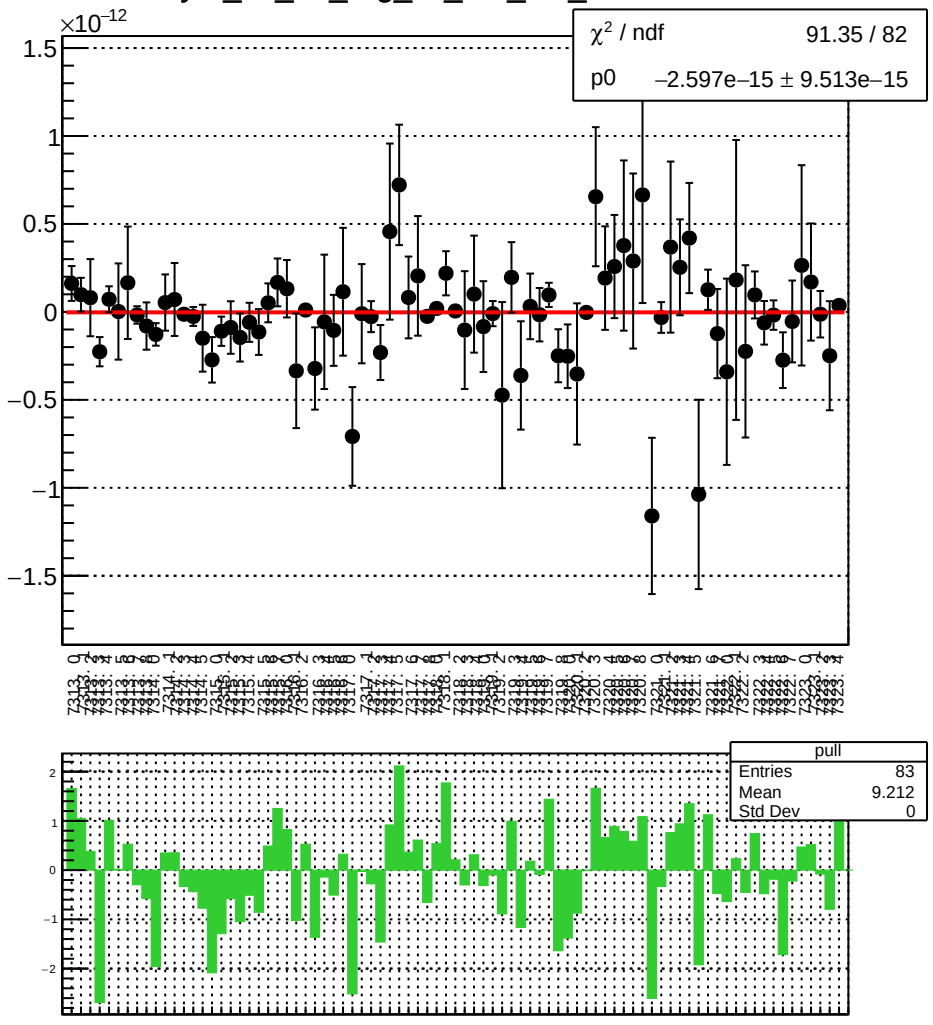

pull1D
Entries 83
Mean 0.01525
Std Dev 0.8854

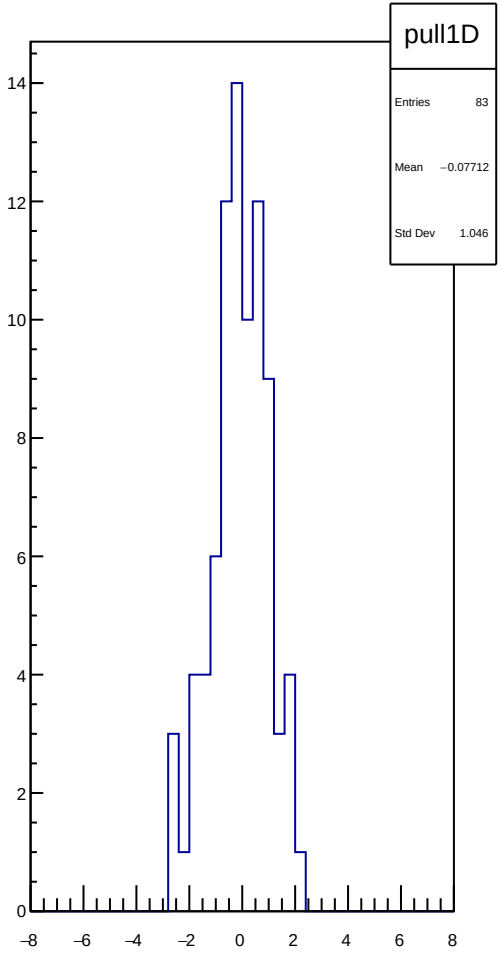

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3823 / 82
p0 475.1 ± 0.3747
520
500
480
460
440
420

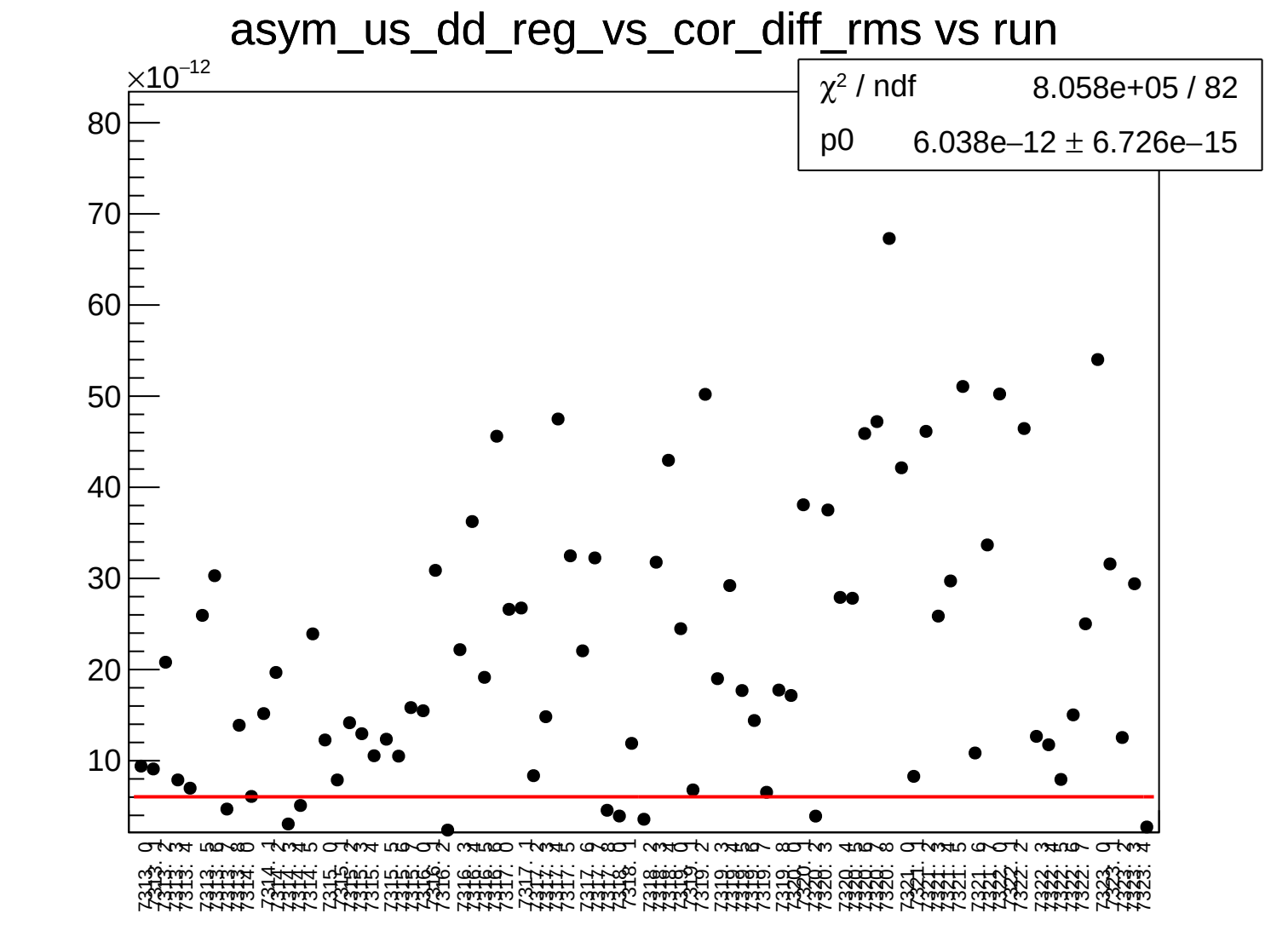

asym_us_dd_mean vs run
χ² / ndf 66.17 / 82
p0 −298.6 ± 1010
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 22.27
Std Dev 70.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

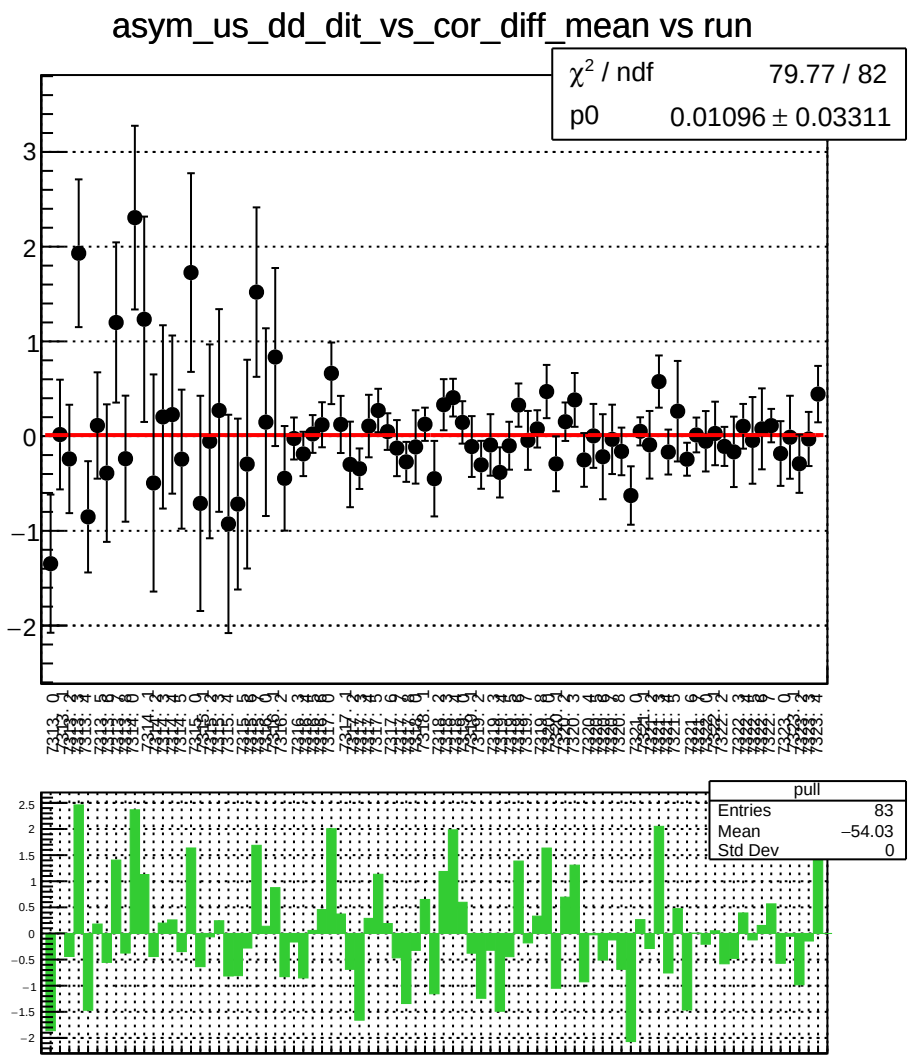

pull1D
Entries 83
Mean 0.007358
Std Dev 0.8928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

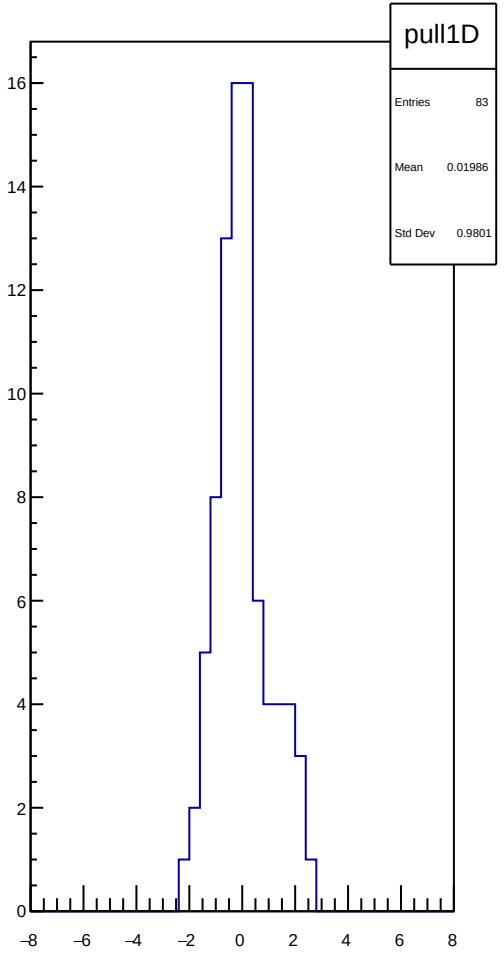

asym_us_dd_rms vs run
χ² / ndf 383.7 / 82
p0 906.1 ± 0.7138
940
920
900
880
860

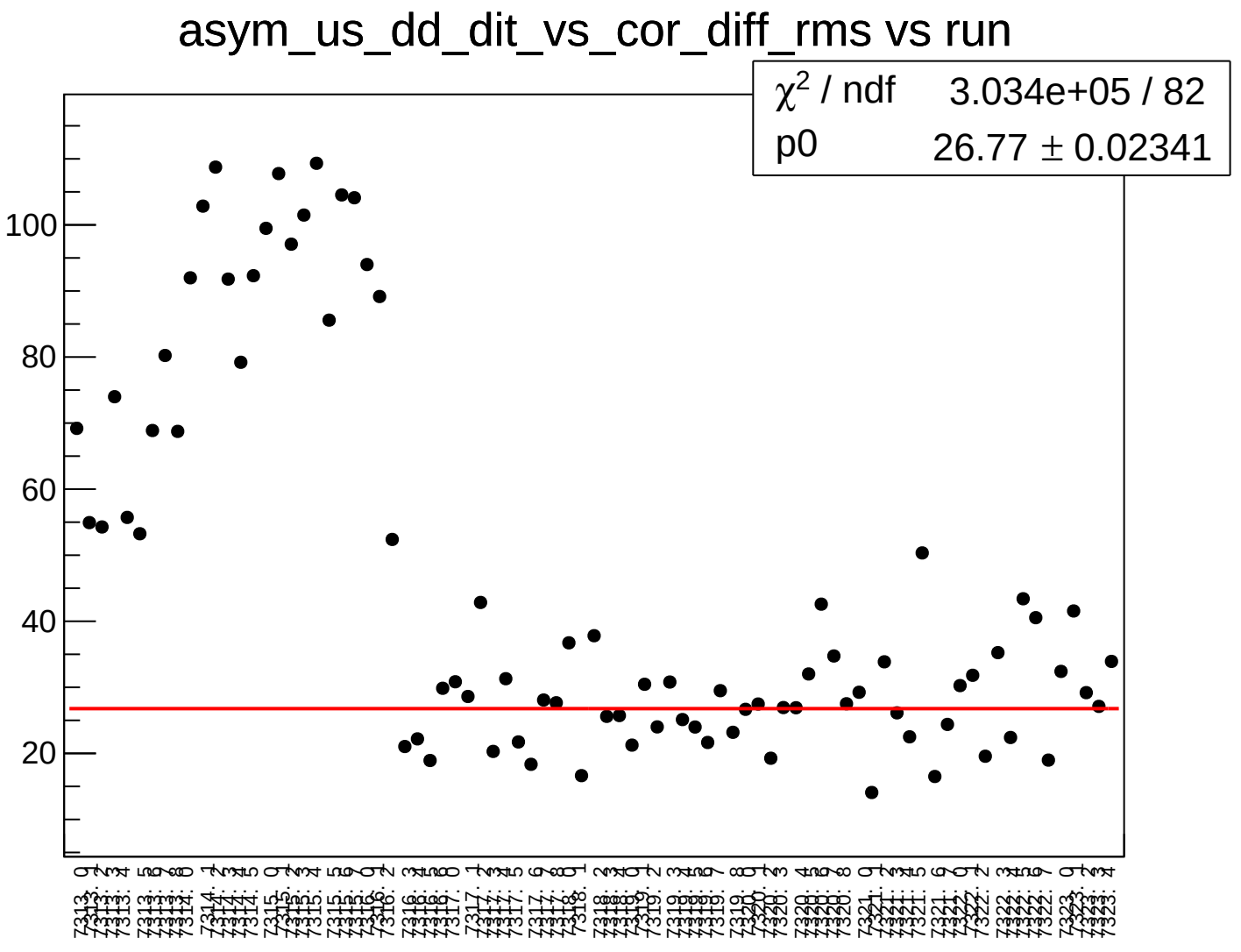

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.35 / 82
p0 −2.597e−15 ± 9.513e−15
pull
Entries 83
Mean 9.212
Std Dev 0

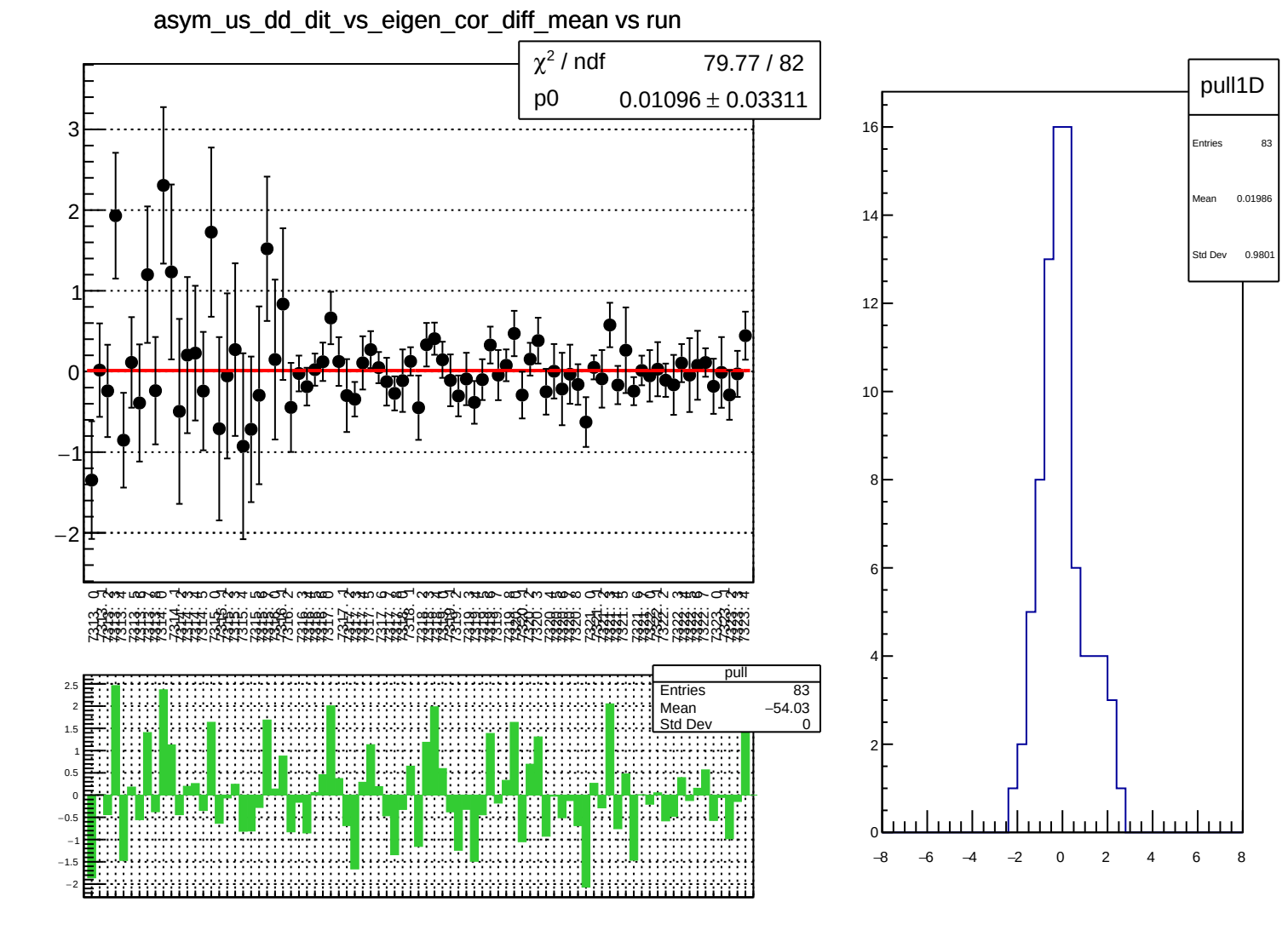

pull1D
Entries 83
Mean −0.07712
Std Dev 1.046

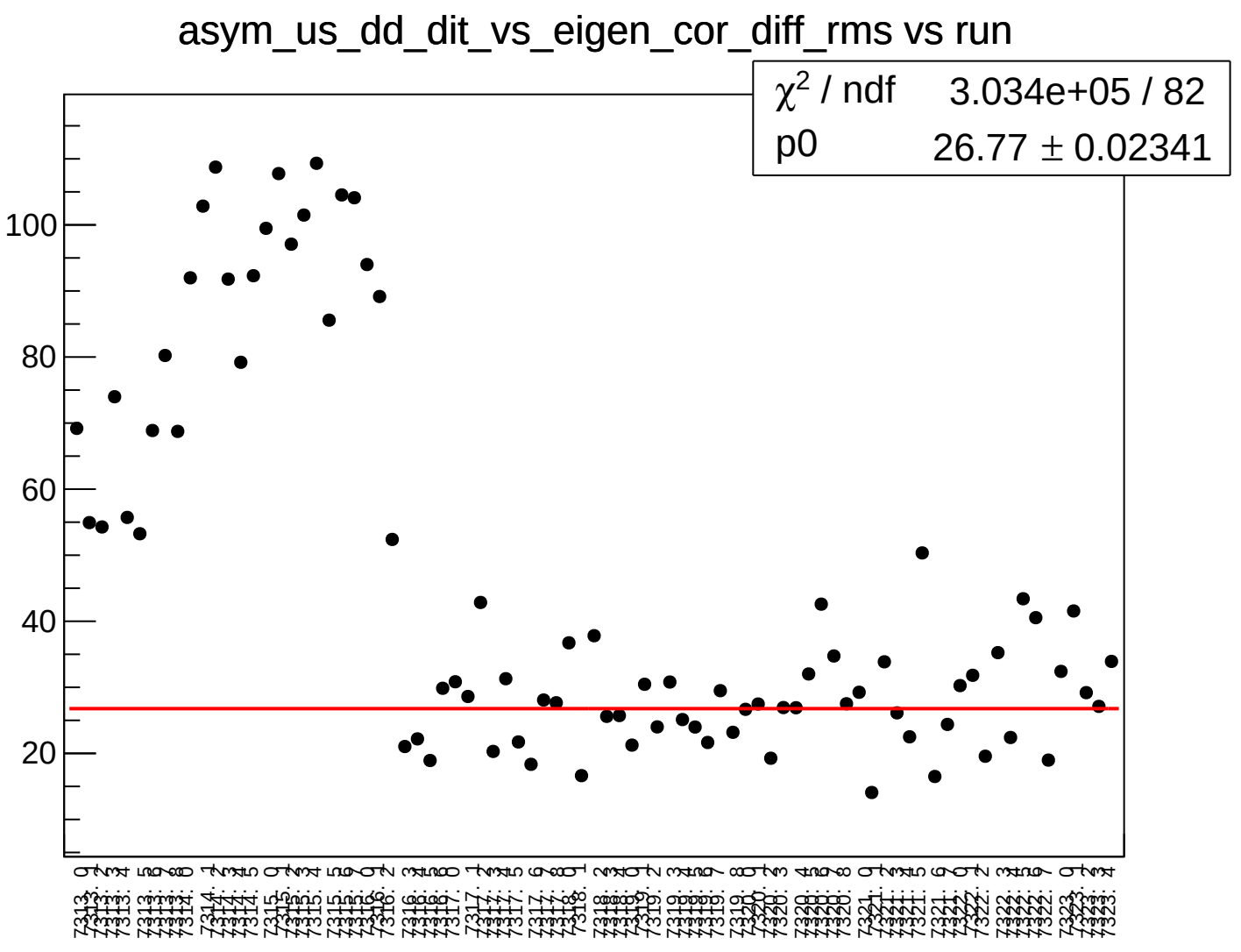

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.058e+05 / 82
p0 6.038e−12 ± 6.726e−15
80
70
60
50
40
30
20
10

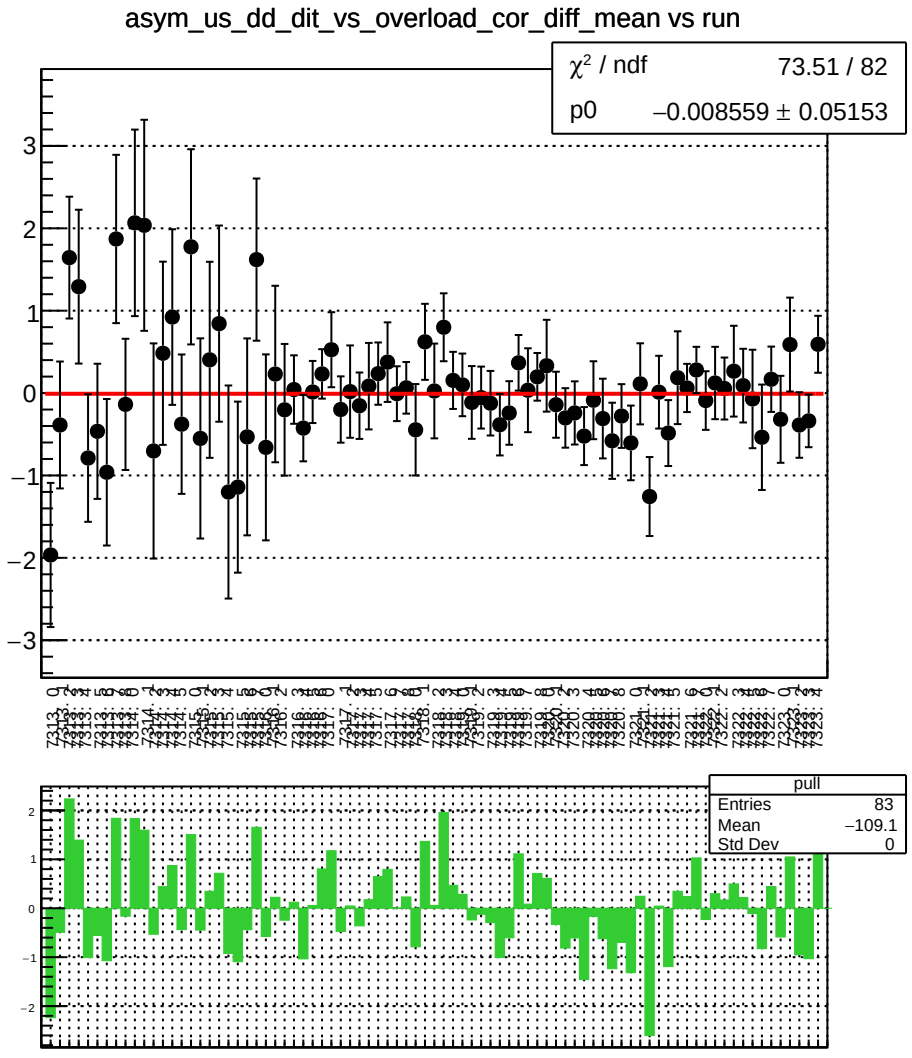

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.77 / 82
p0 0.01096 ± 0.03311
pull
Entries 83
Mean −54.03
Std Dev 0

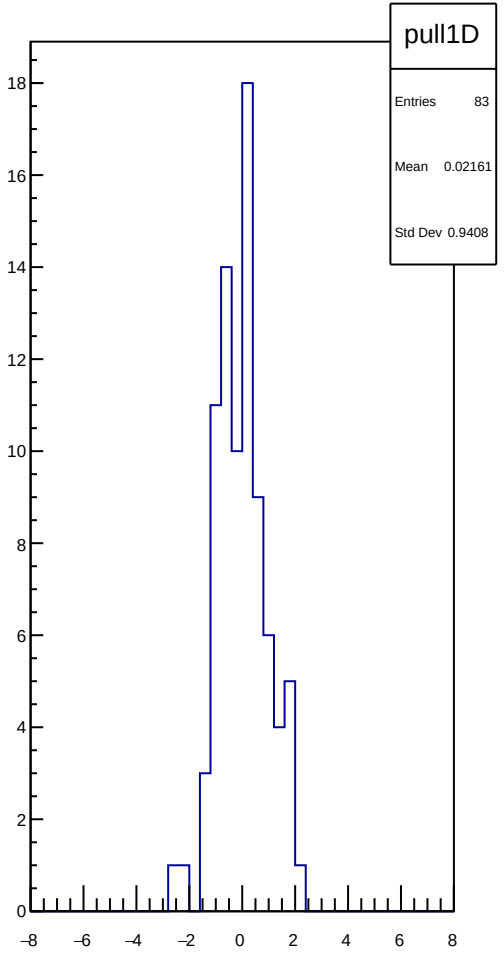

pull1D
Entries 83
Mean 0.01986
Std Dev 0.9801

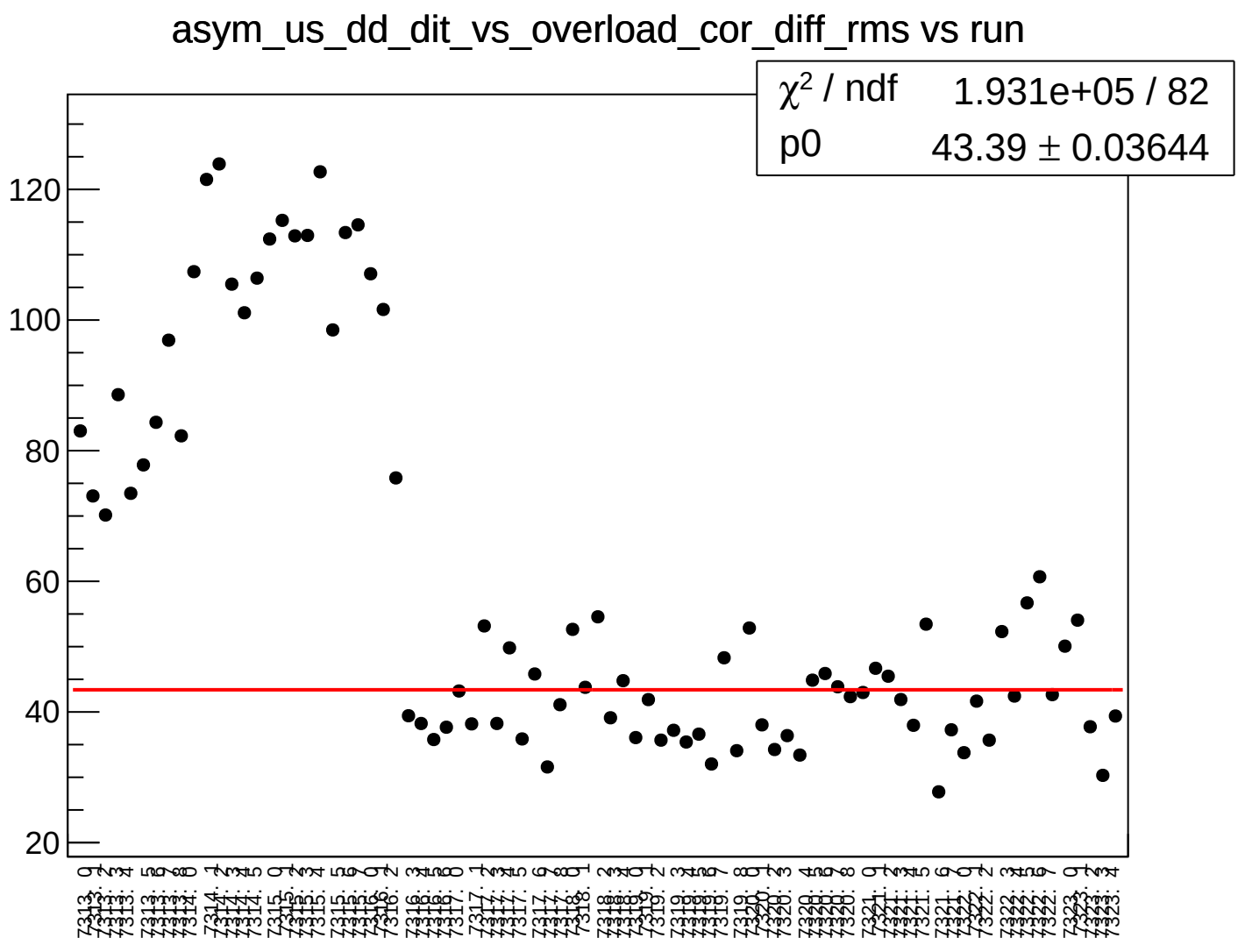

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.034e+05 / 82
p0 26.77 ± 0.02341
100
80
60
40
20

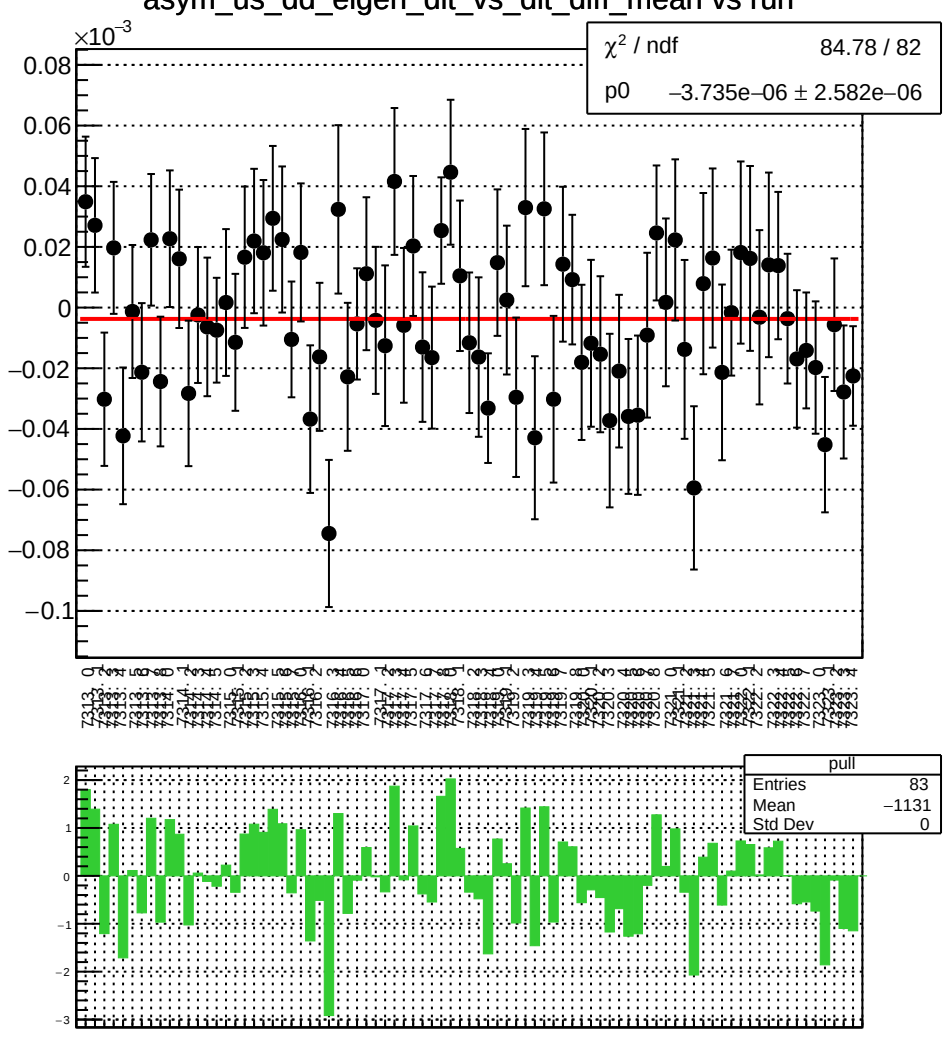

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.77 / 82
p0 0.01096 ± 0.03311
pull
Entries 83
Mean −54.03
Std Dev 0
pull1D
Entries 83
Mean 0.01986
Std Dev 0.9801

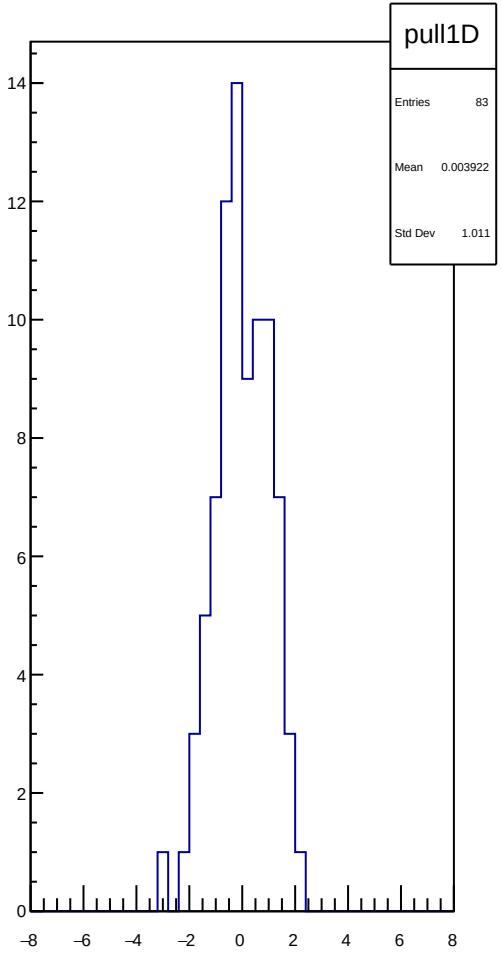

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.034e+05 / 82
p0 26.77 ± 0.02341
100
80
60
40
20

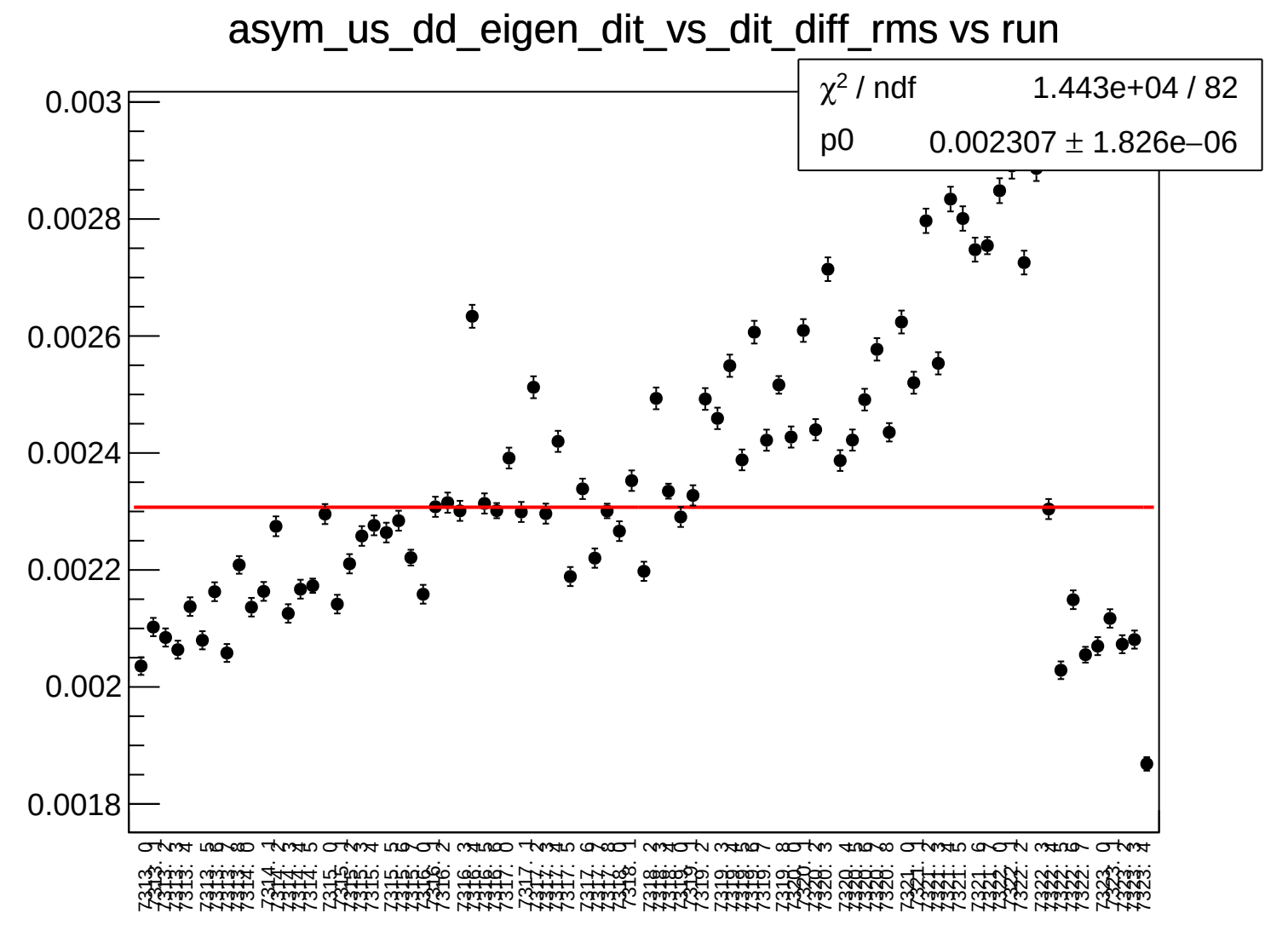

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.51 / 82
p0 −0.008559 ± 0.05153
pull
Entries 83
Mean −109.1
Std Dev 0

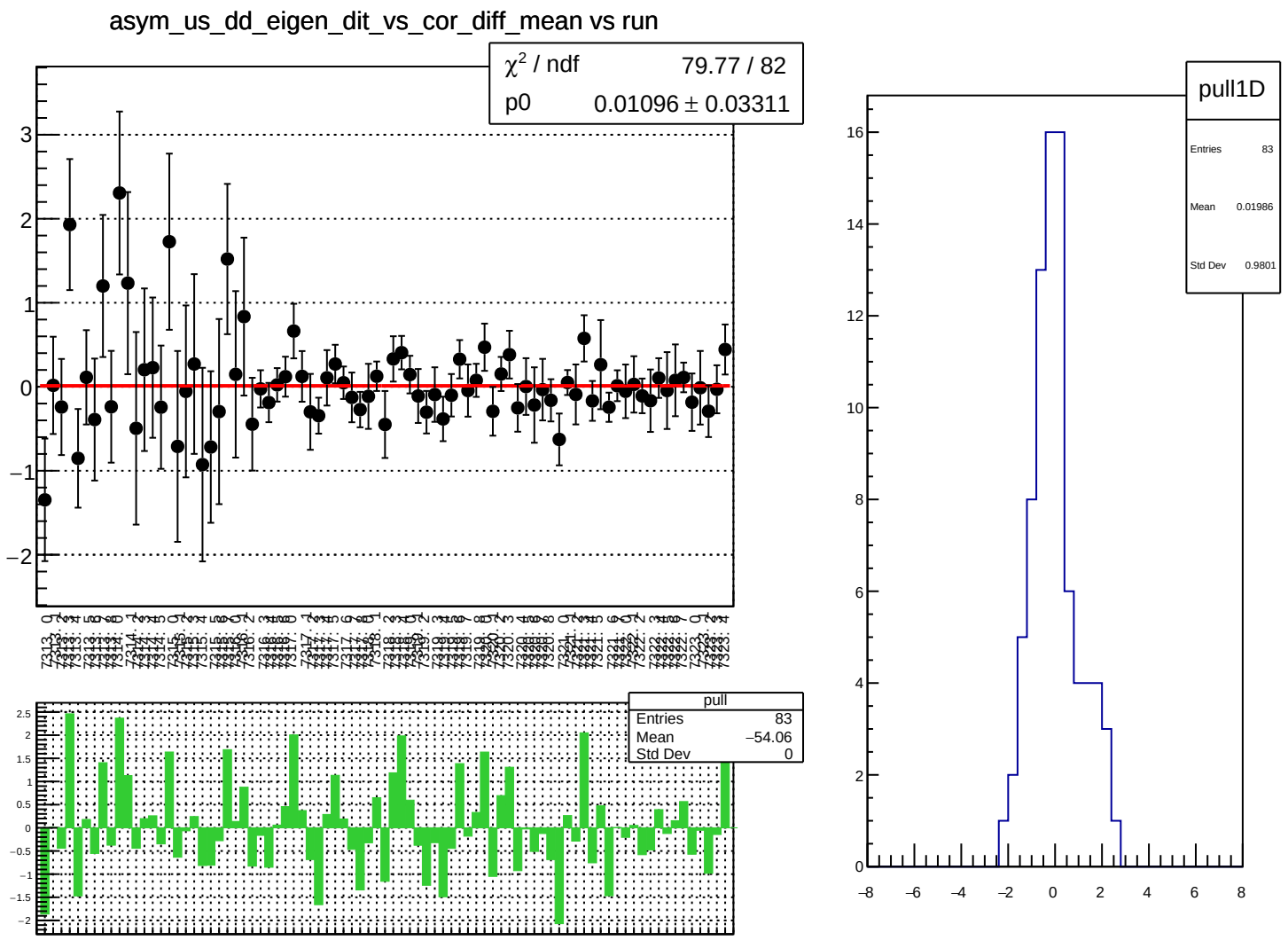

pull1D
Entries 83
Mean 0.02161
Std Dev 0.9408

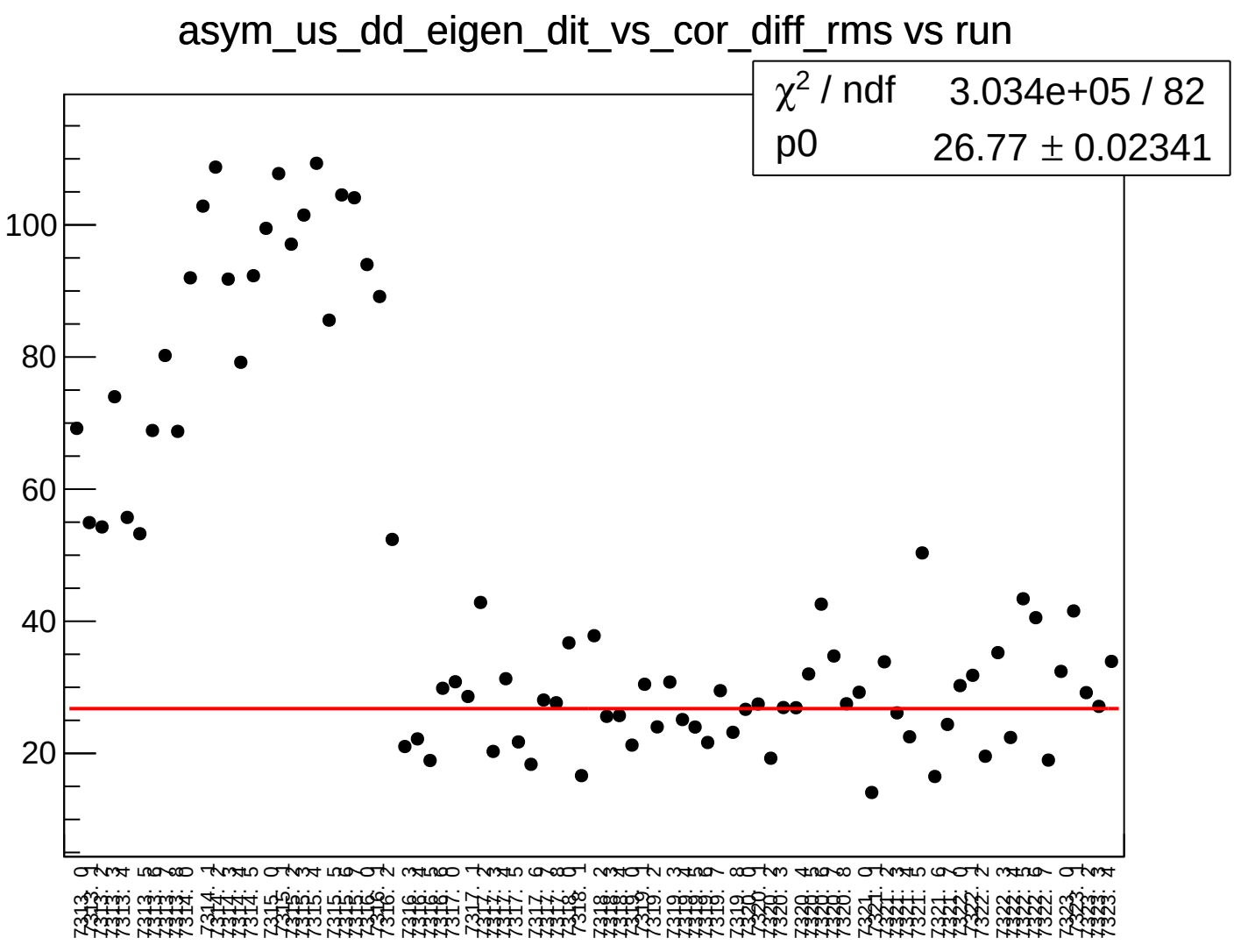

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.931e+05 / 82
p0 43.39 ± 0.03644
120
100
80
60
40
20

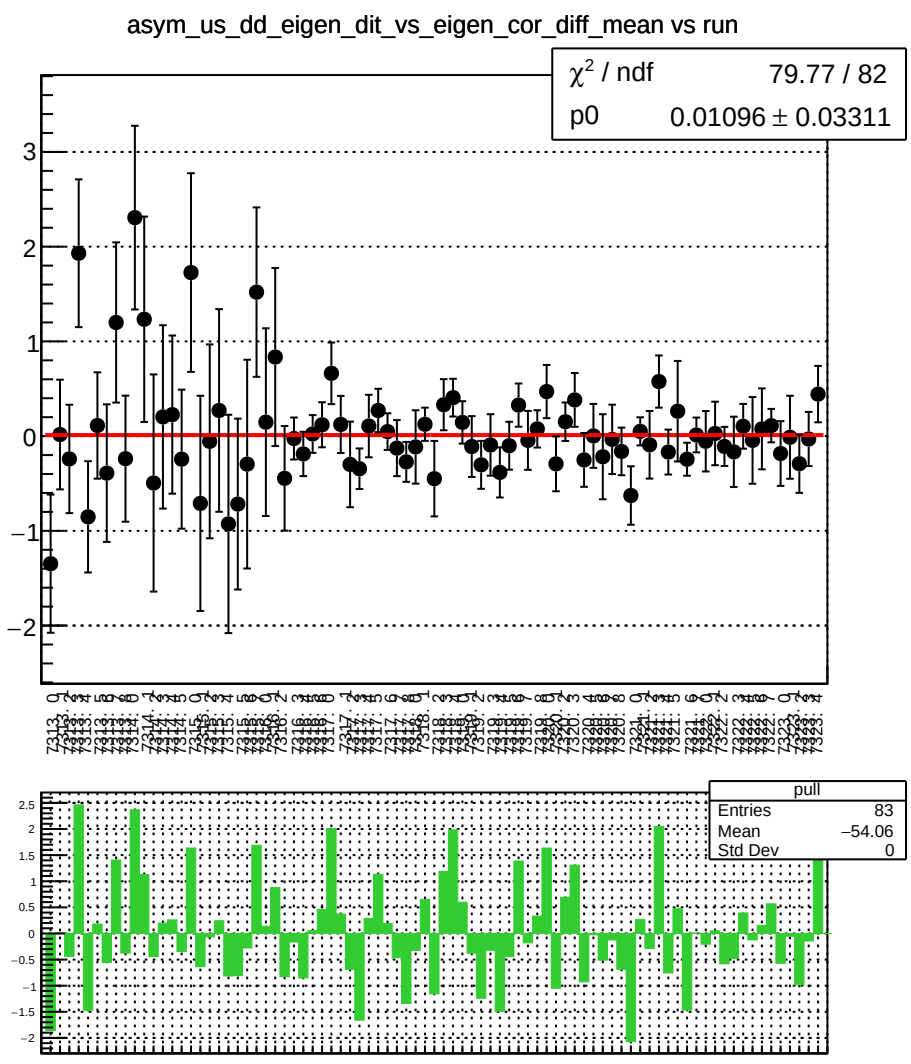

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.78 / 82
p0 −3.735e−06 ± 2.582e−06
pull
Entries 83
Mean −1131
Std Dev 0

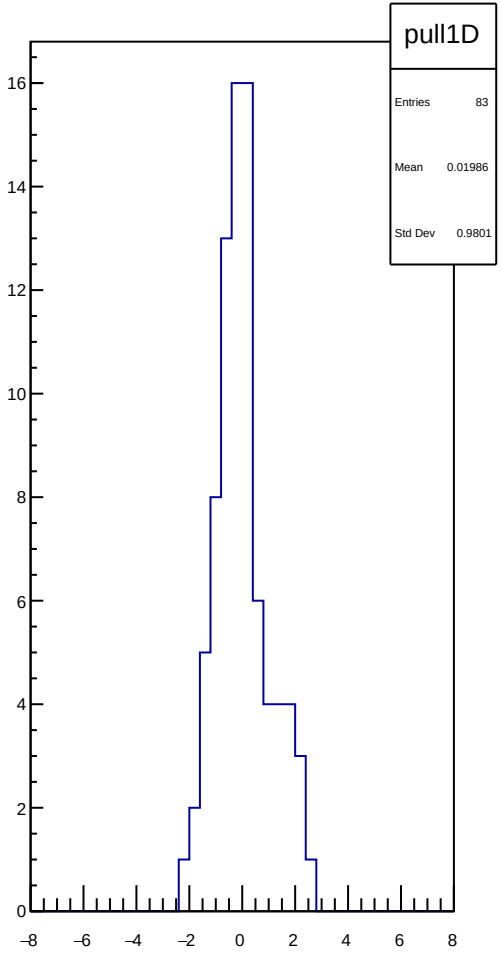

pull1D
Entries 83
Mean 0.003922
Std Dev 1.011

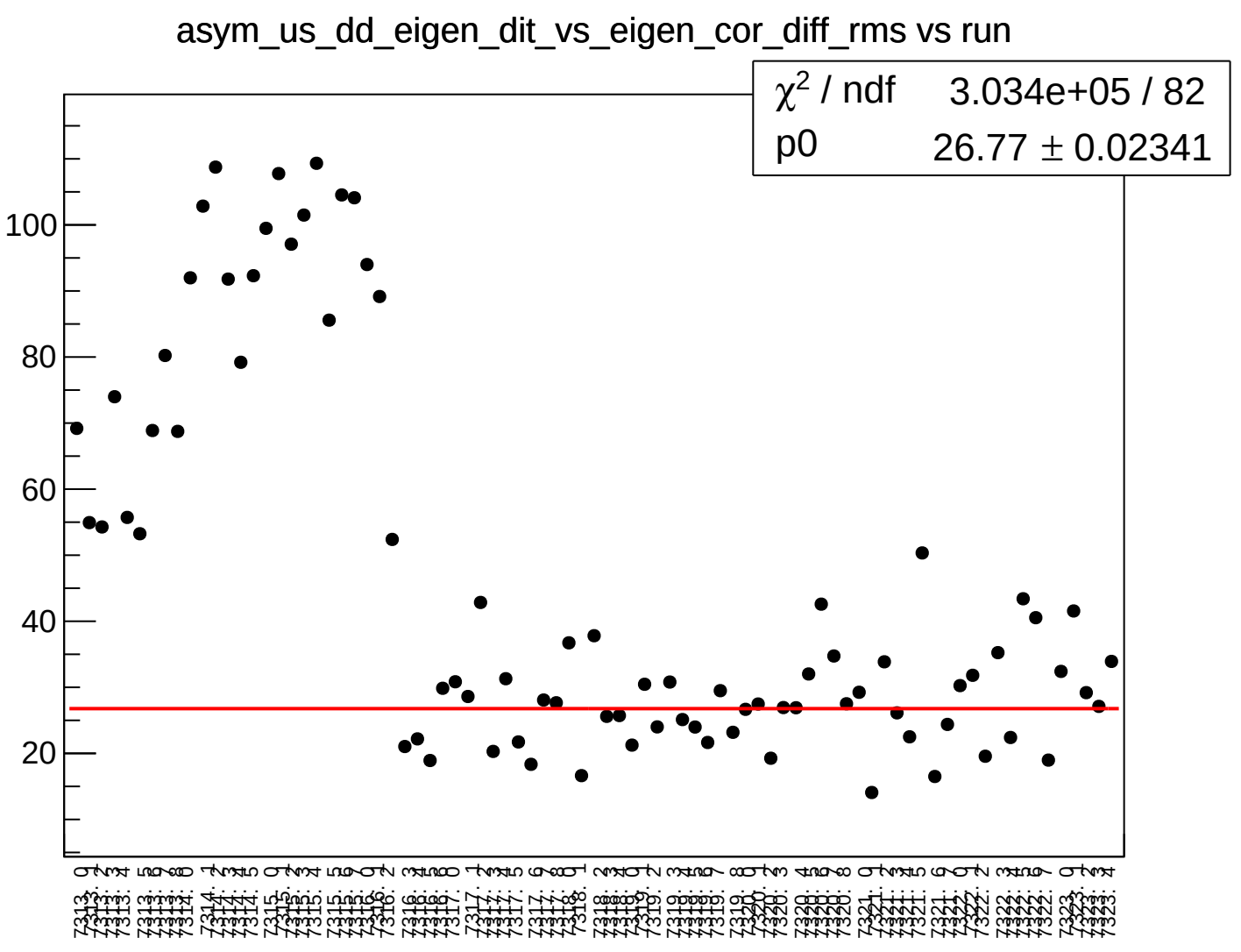

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.443e+04 / 82
p0 0.002307 ± 1.826e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

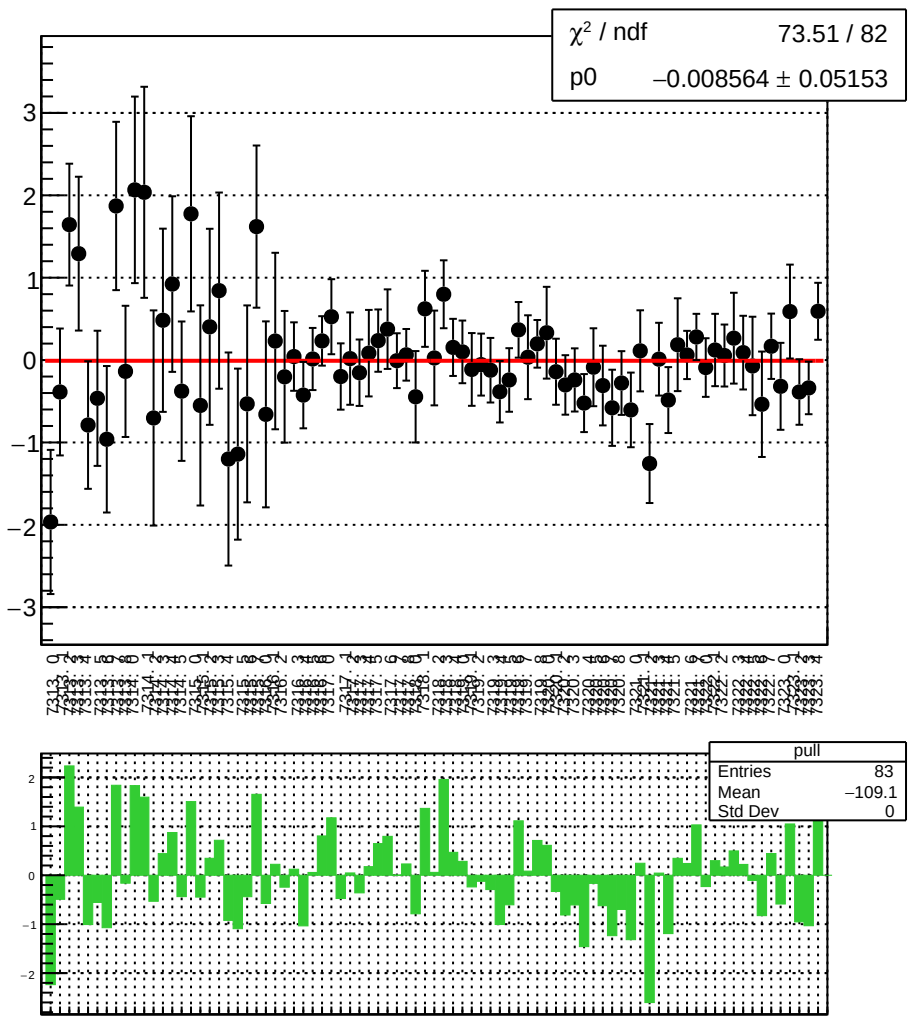

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.77 / 82
p0 0.01096 ± 0.03311
pull
Entries 83
Mean −54.06
Std Dev 0
pull1D
Entries 83
Mean 0.01986
Std Dev 0.9801

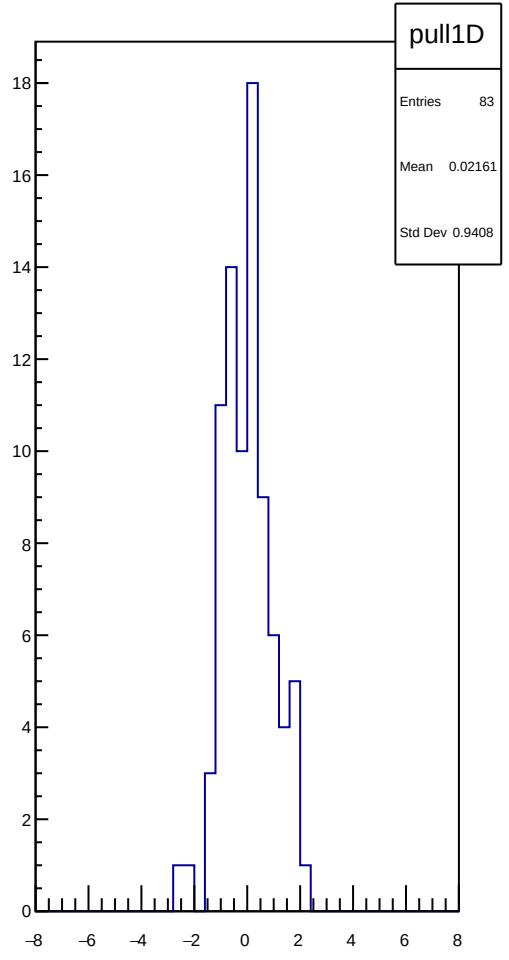

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.034e+05 / 82
p0 26.77 ± 0.02341
100
80
60
40
20

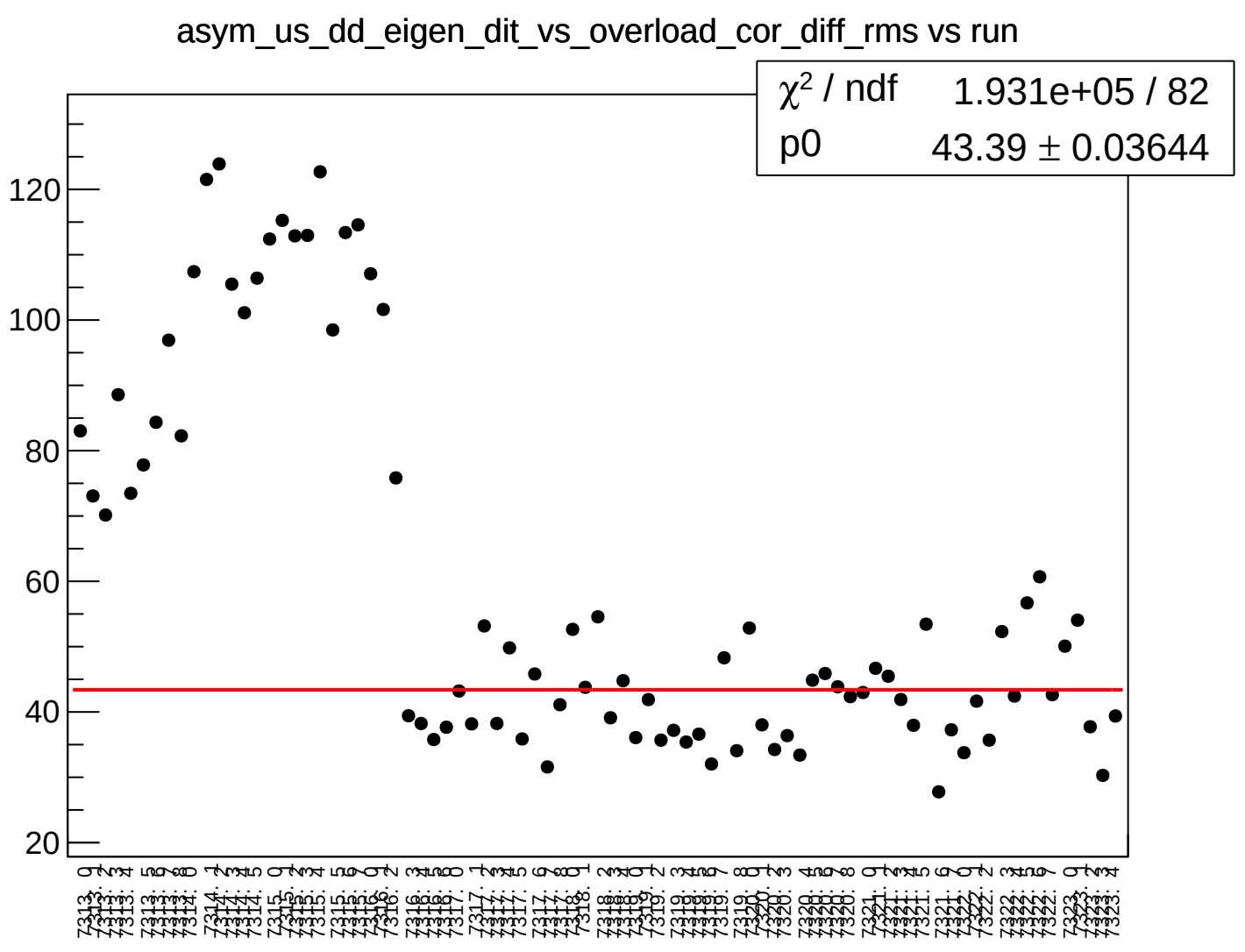

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.77 / 82
p0 0.01096 ± 0.03311
pull
Entries 83
Mean −54.06
Std Dev 0

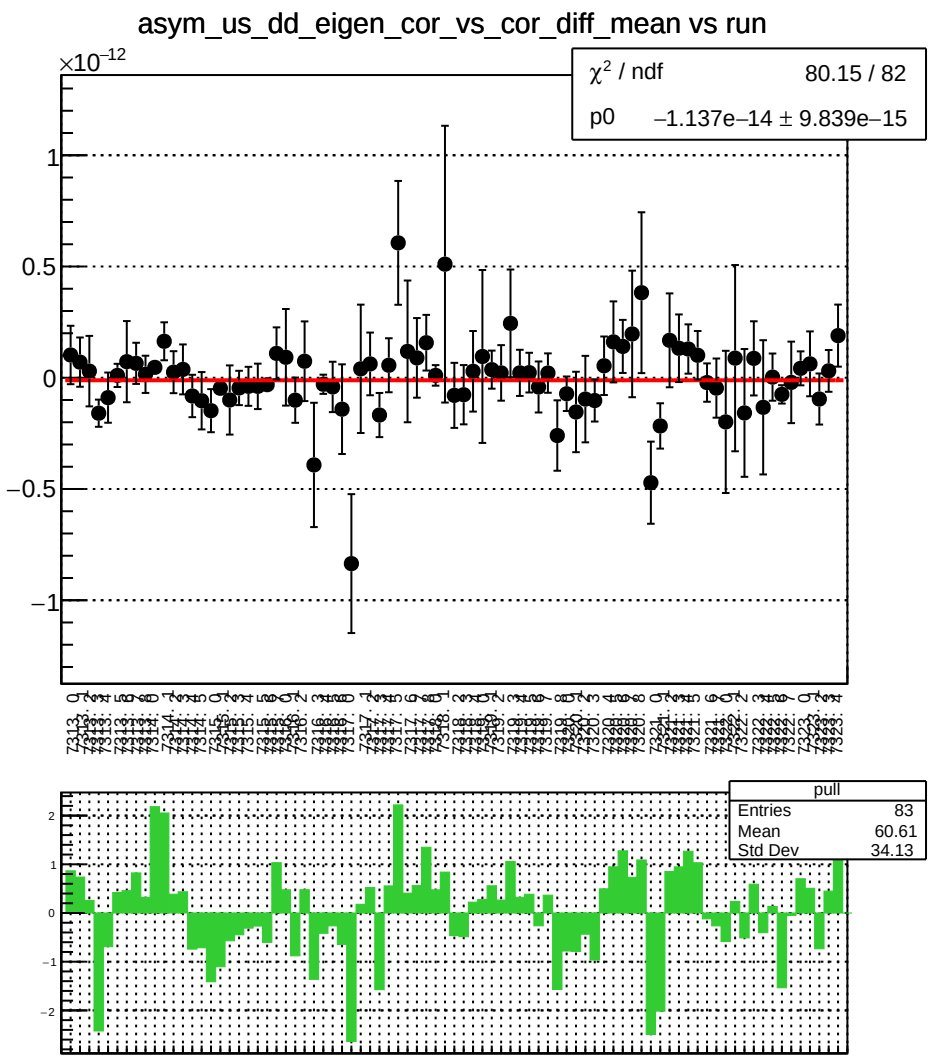

pull1D
Entries 83
Mean 0.01986
Std Dev 0.9801

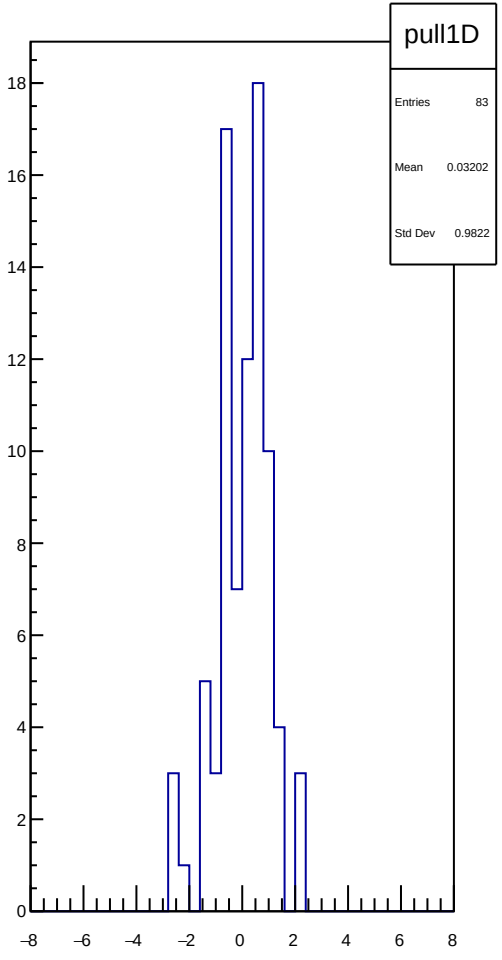

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.034e+05 / 82
p0 26.77 ± 0.02341
100
80
60
40
20

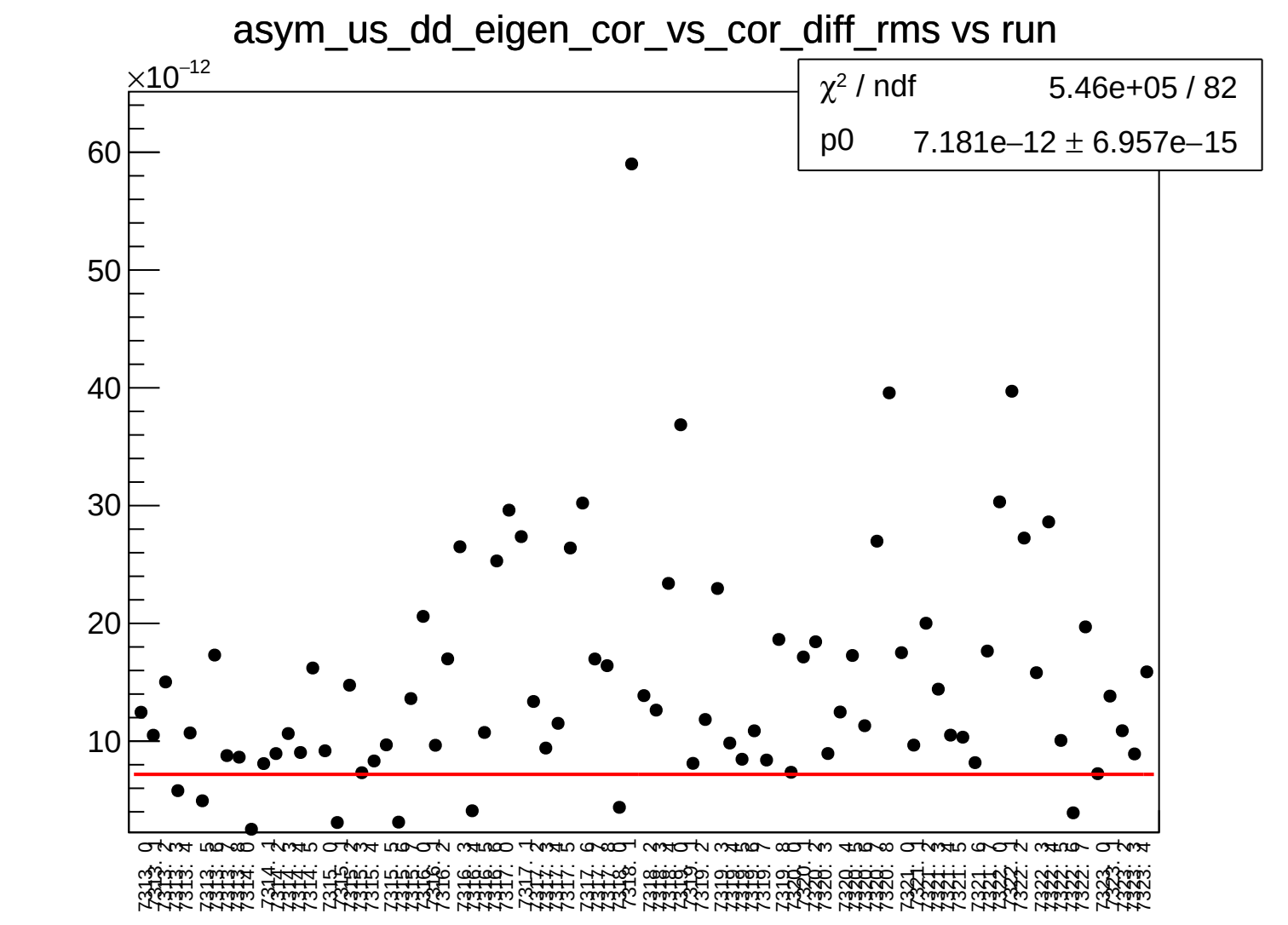

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.51 / 82
p0 −0.008564 ± 0.05153
pull
Entries 83
Mean −109.1
Std Dev 0

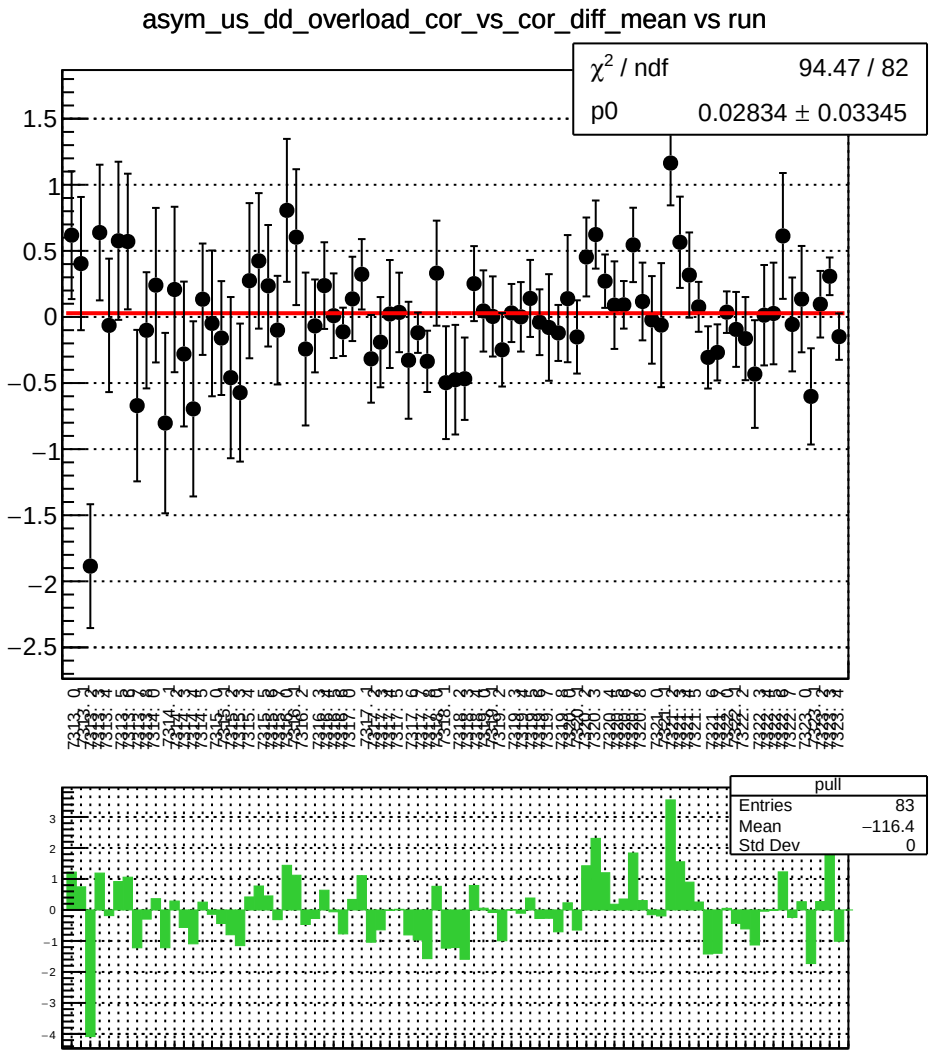

pull1D
Entries 83
Mean 0.02161
Std Dev 0.9408

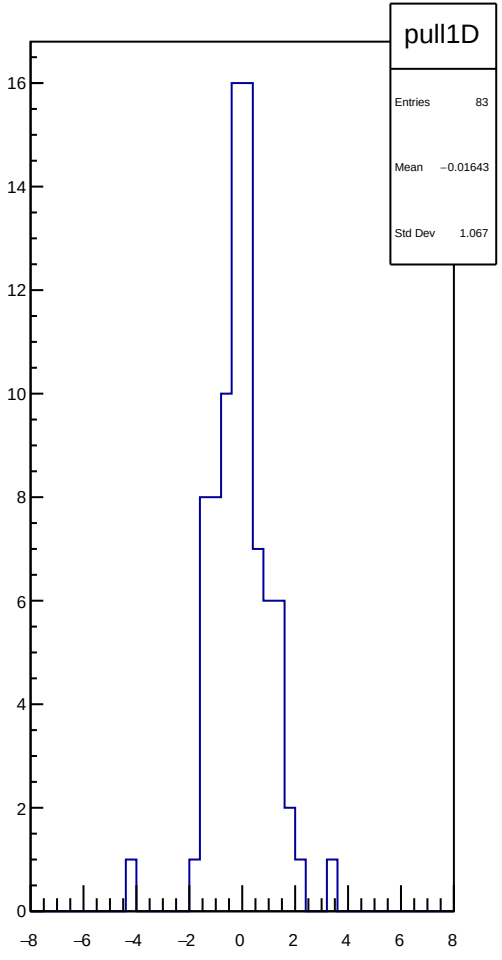

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.931e+05 / 82
p0 43.39 ± 0.03644
120
100
80
60
40
20

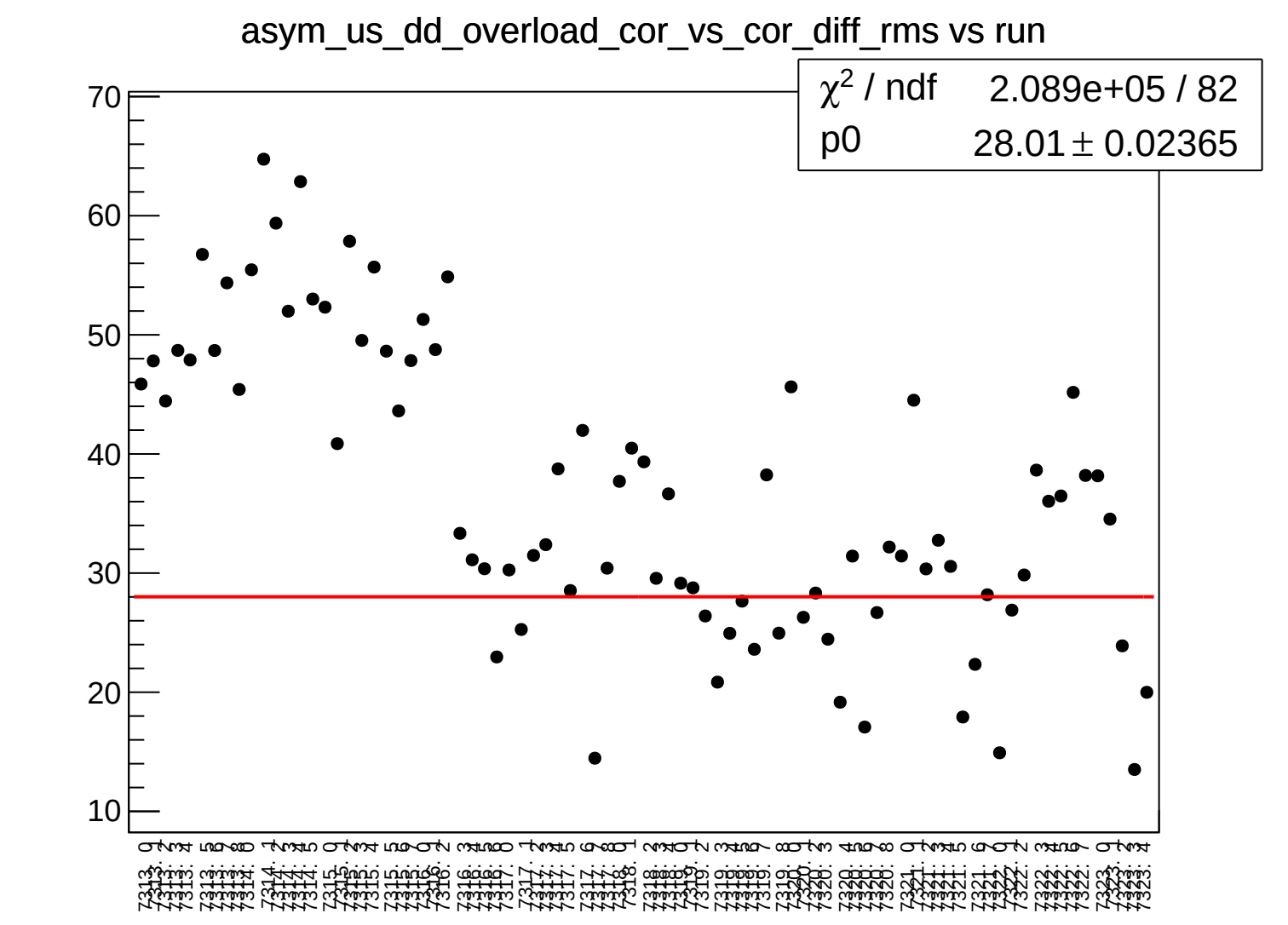

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.15 / 82
p0 −1.137e−14 ± 9.839e−15
pull
Entries 83
Mean 60.61
Std Dev 34.13

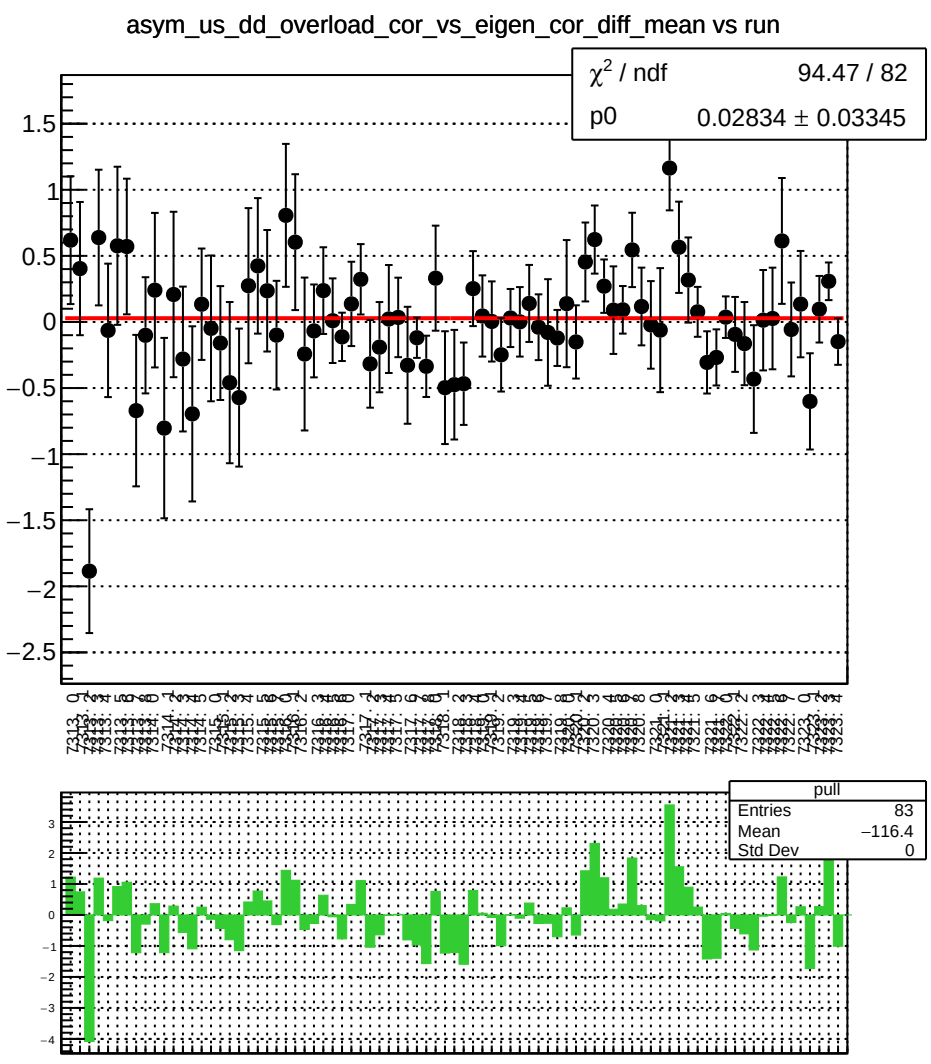

pull1D
Entries 83
Mean 0.03202
Std Dev 0.9822

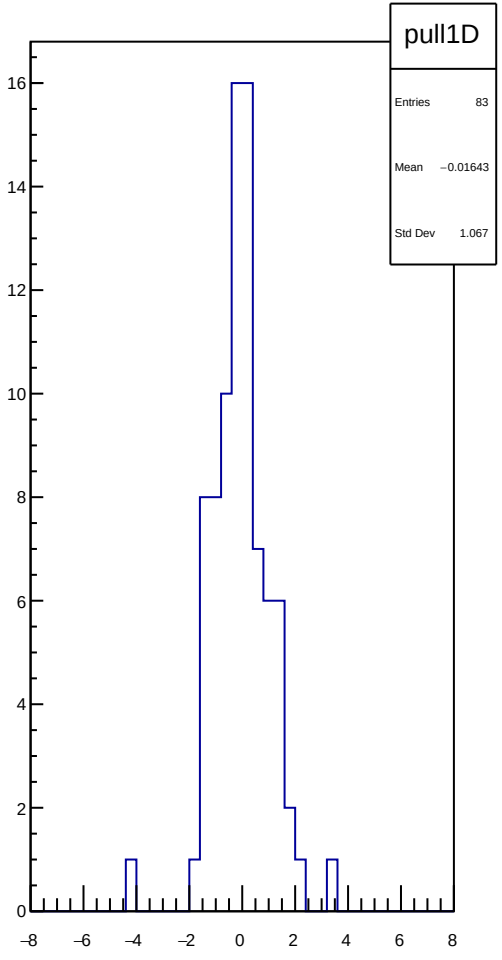

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.46e+05 / 82
p0 7.181e−12 ± 6.957e−15
60
50
40
30
20
10

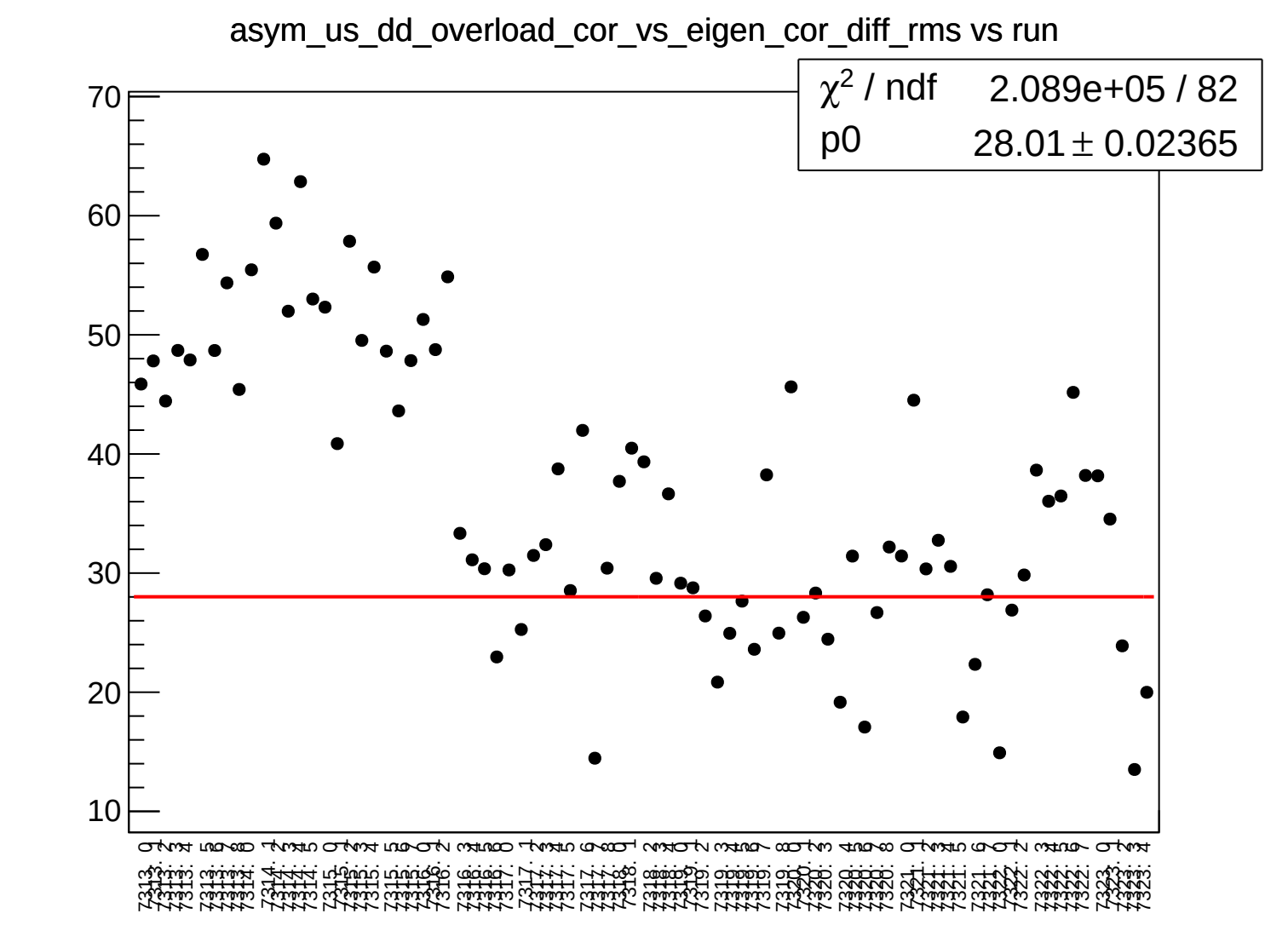

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.47 / 82
p0 0.02834 ± 0.03345
pull
Entries 83
Mean −116.4
Std Dev 0

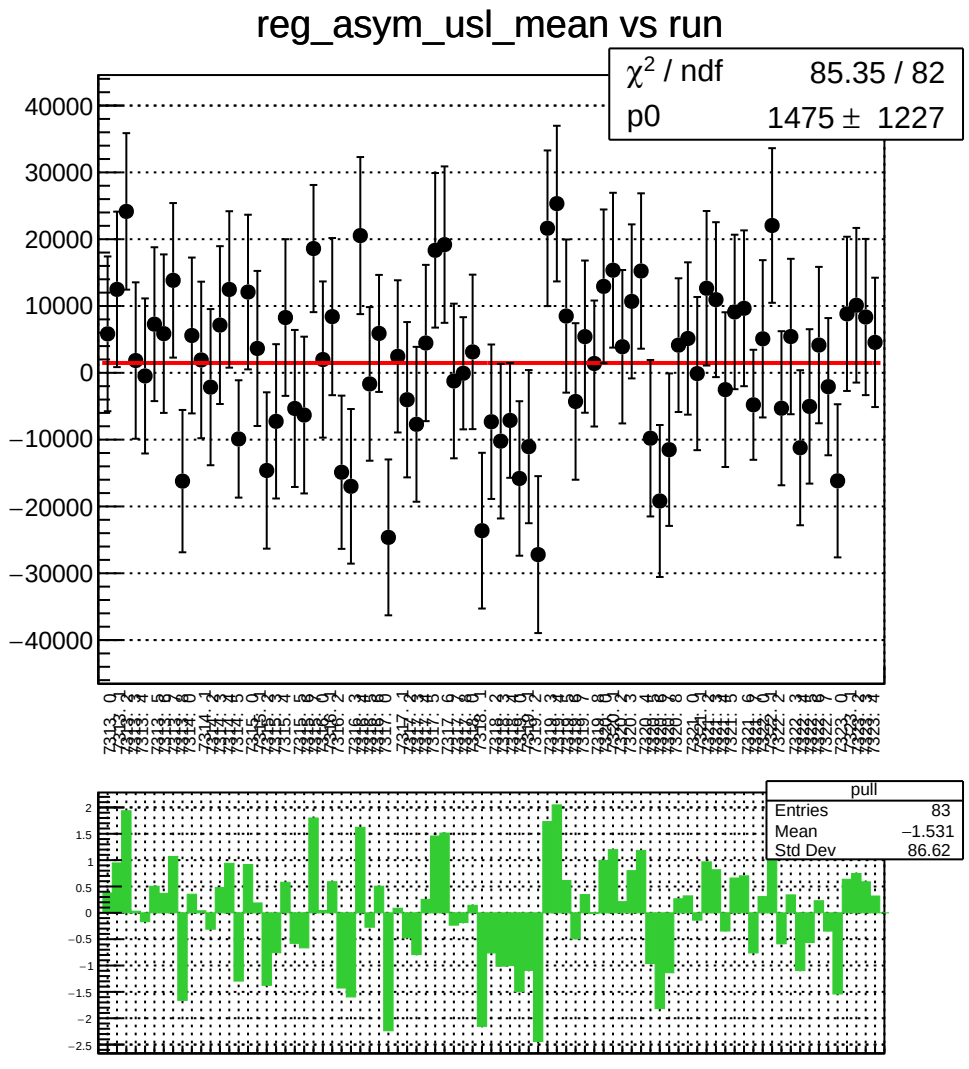

pull1D
Entries 83
Mean −0.01643
Std Dev 1.067

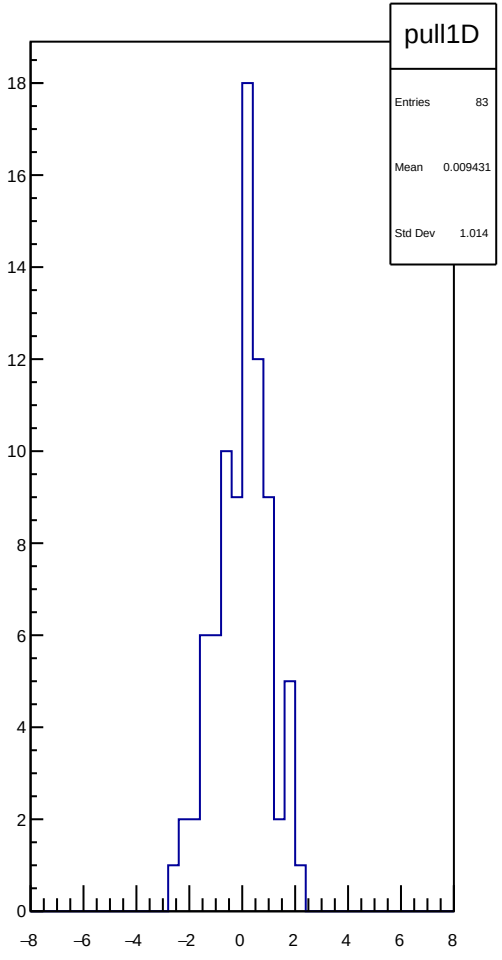

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 2.089e+05 / 82
p0 28.01 ± 0.02365
70
60
50
40
30
20
10

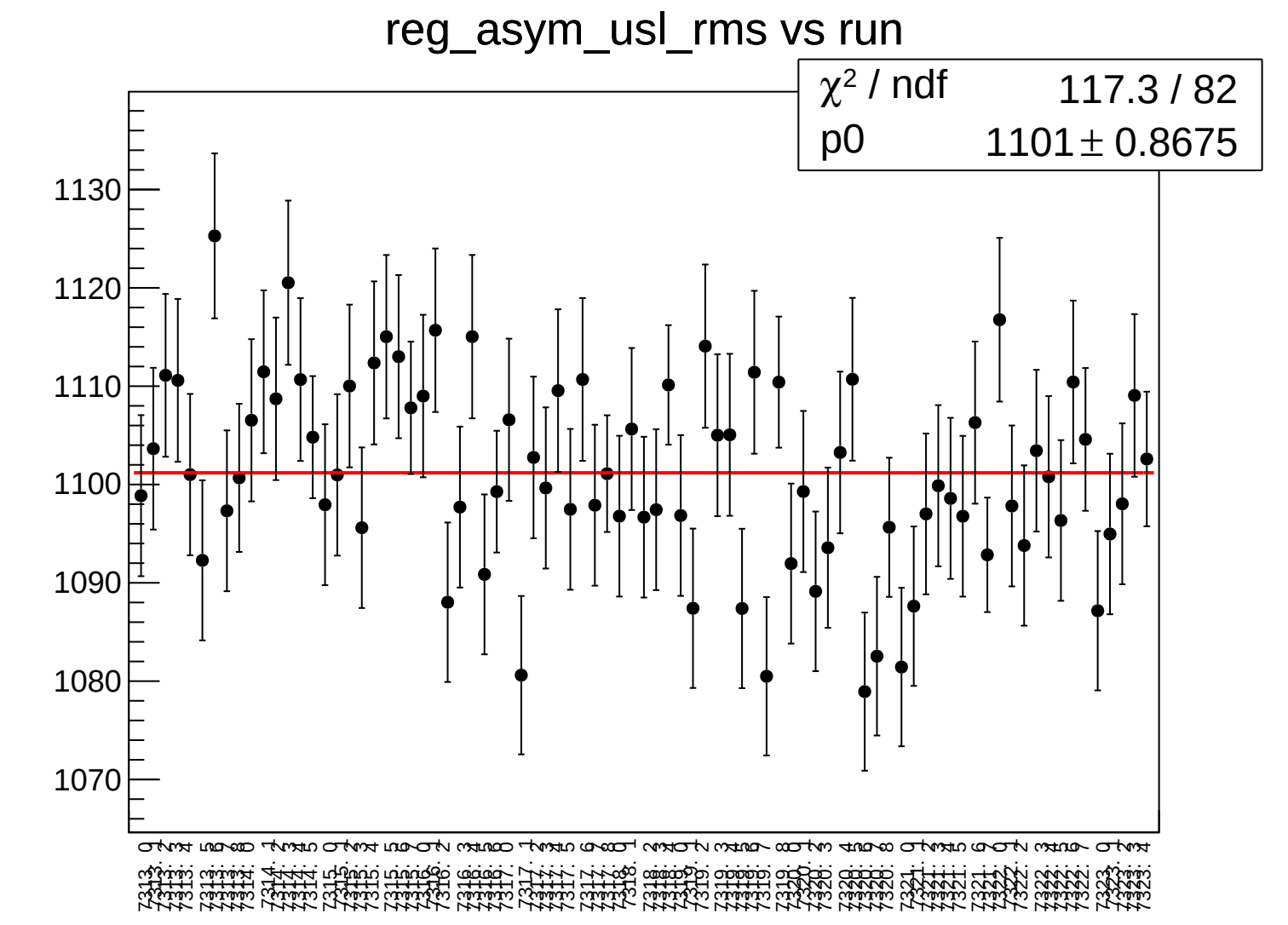

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.47 / 82
p0 0.02834 ± 0.03345
pull
Entries 83
Mean −116.4
Std Dev 0

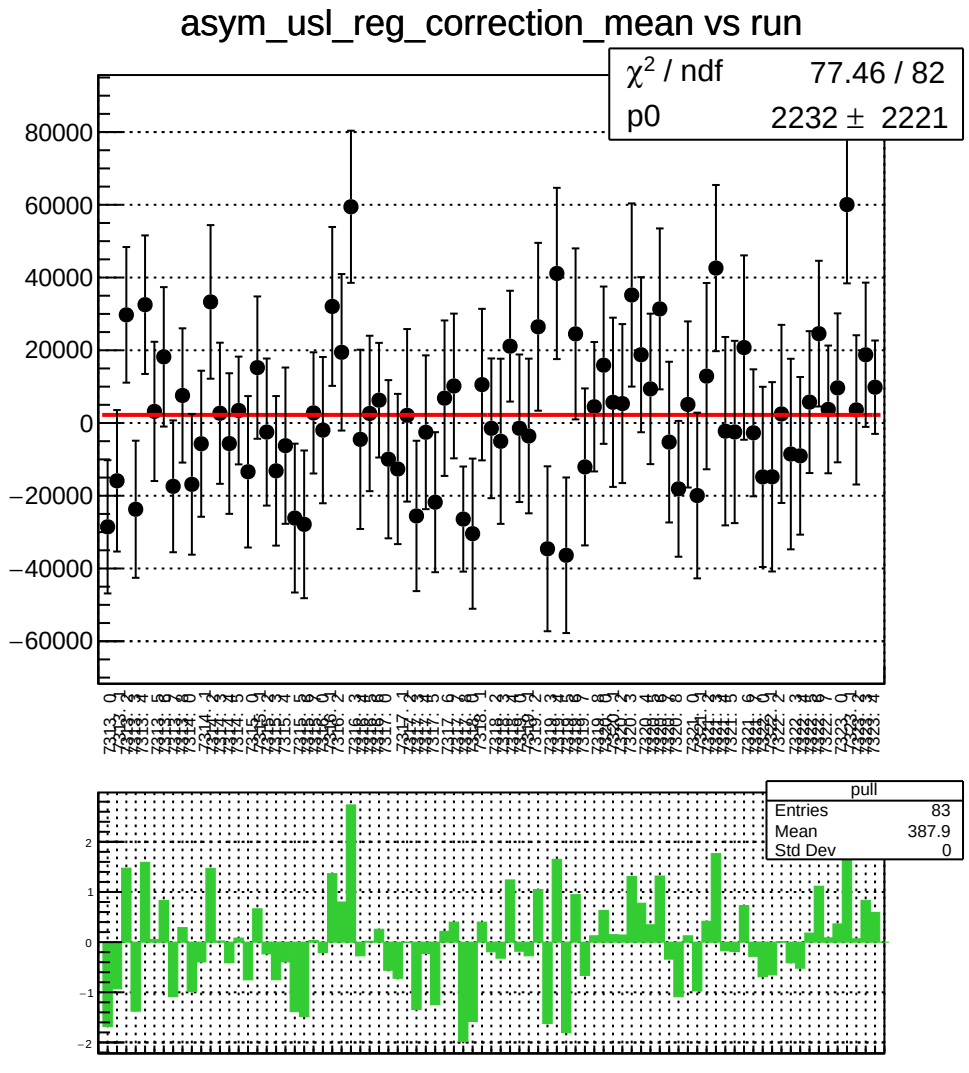

pull1D
Entries 83
Mean −0.01643
Std Dev 1.067

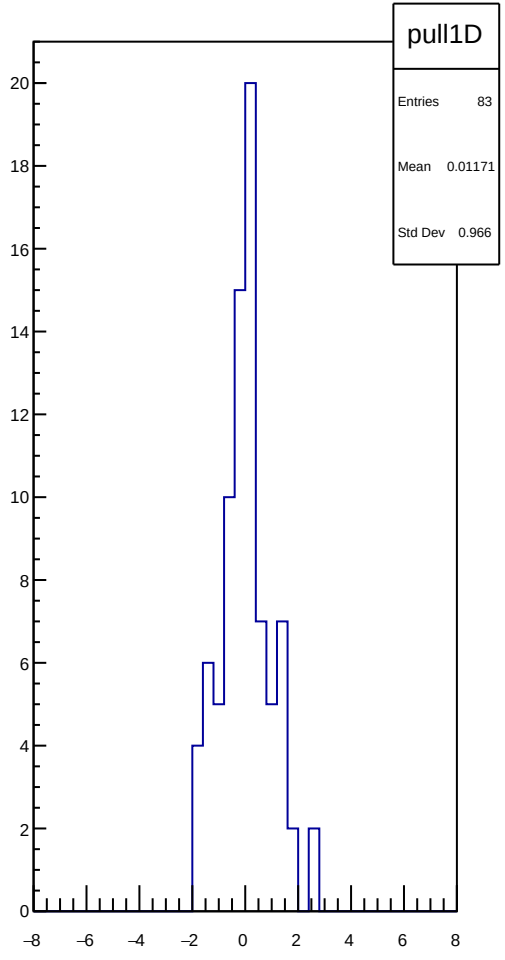

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.089e+05 / 82
p0 28.01 ± 0.02365
70
60
50
40
30
20
10

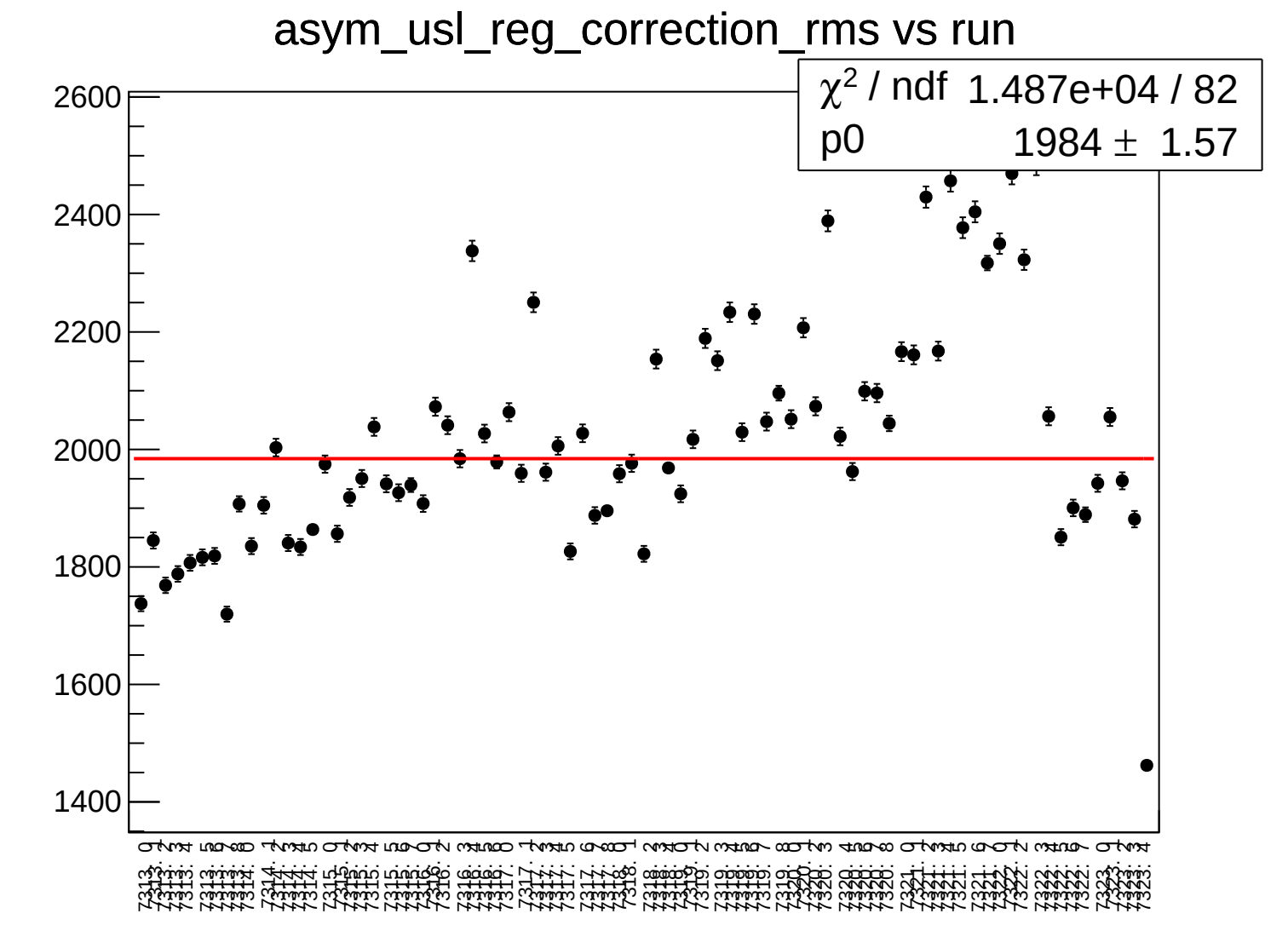

reg_asym_usl_mean vs run
χ² / ndf 85.35 / 82
p0 1475 ± 1227
pull
Entries 83
Mean −1.531
Std Dev 86.62

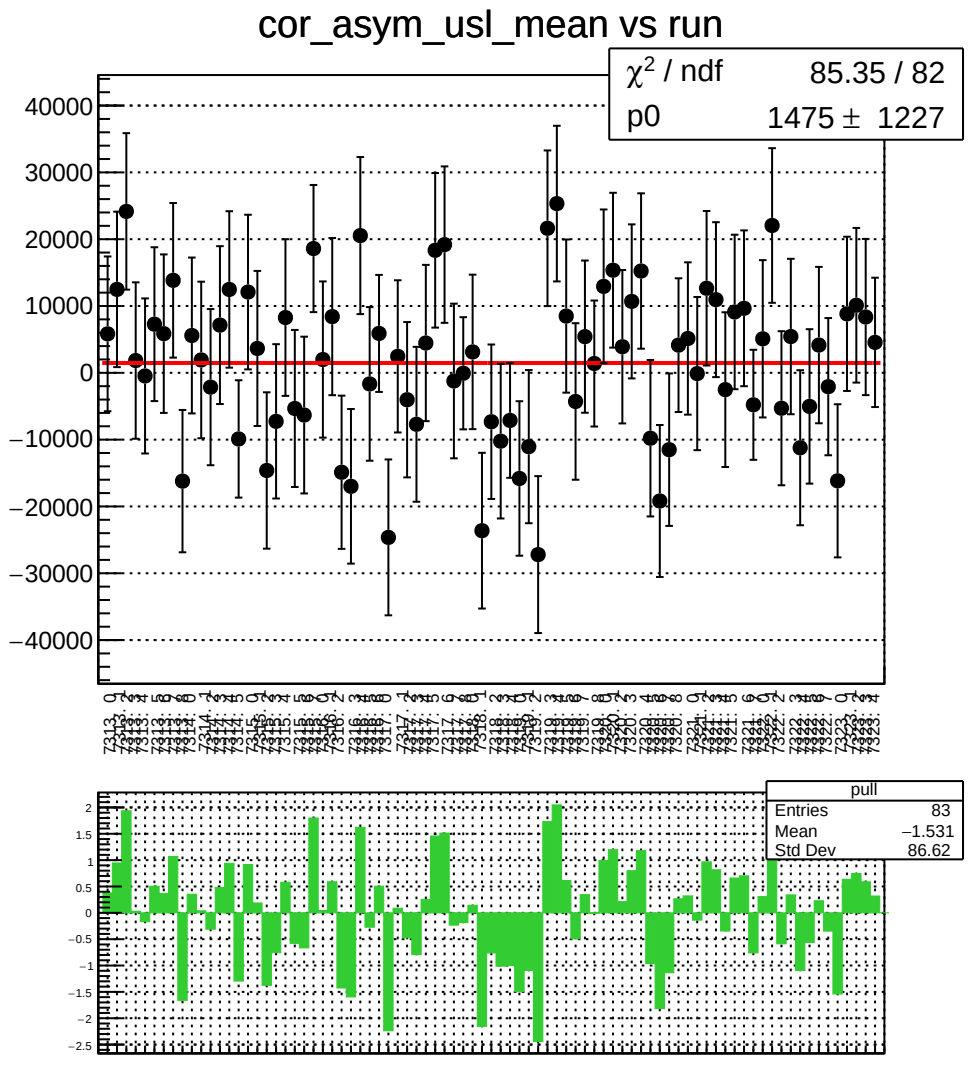

pull1D
Entries 83
Mean 0.009431
Std Dev 1.014

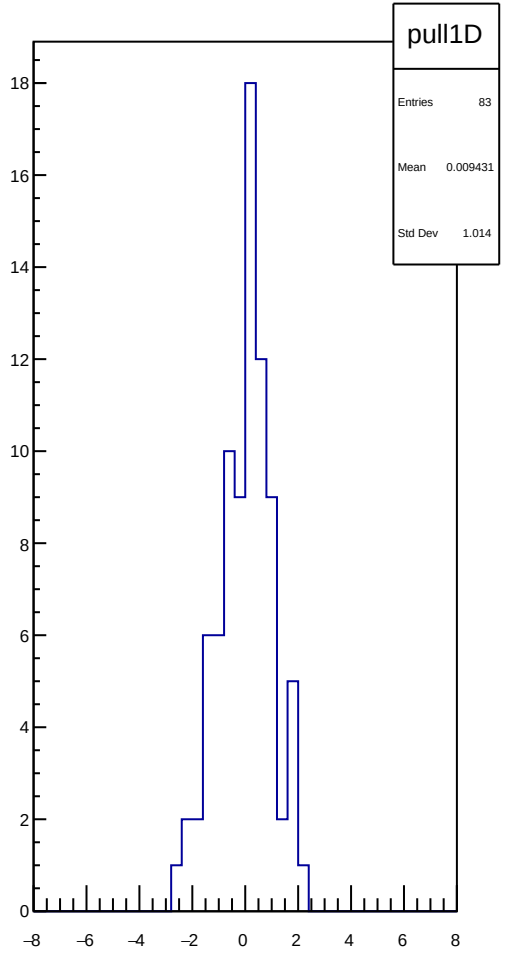

reg_asym_usl_rms vs run
χ² / ndf 117.3 / 82
p0 1101 ± 0.8675
1130
1120
1110
1100
1090
1080
1070

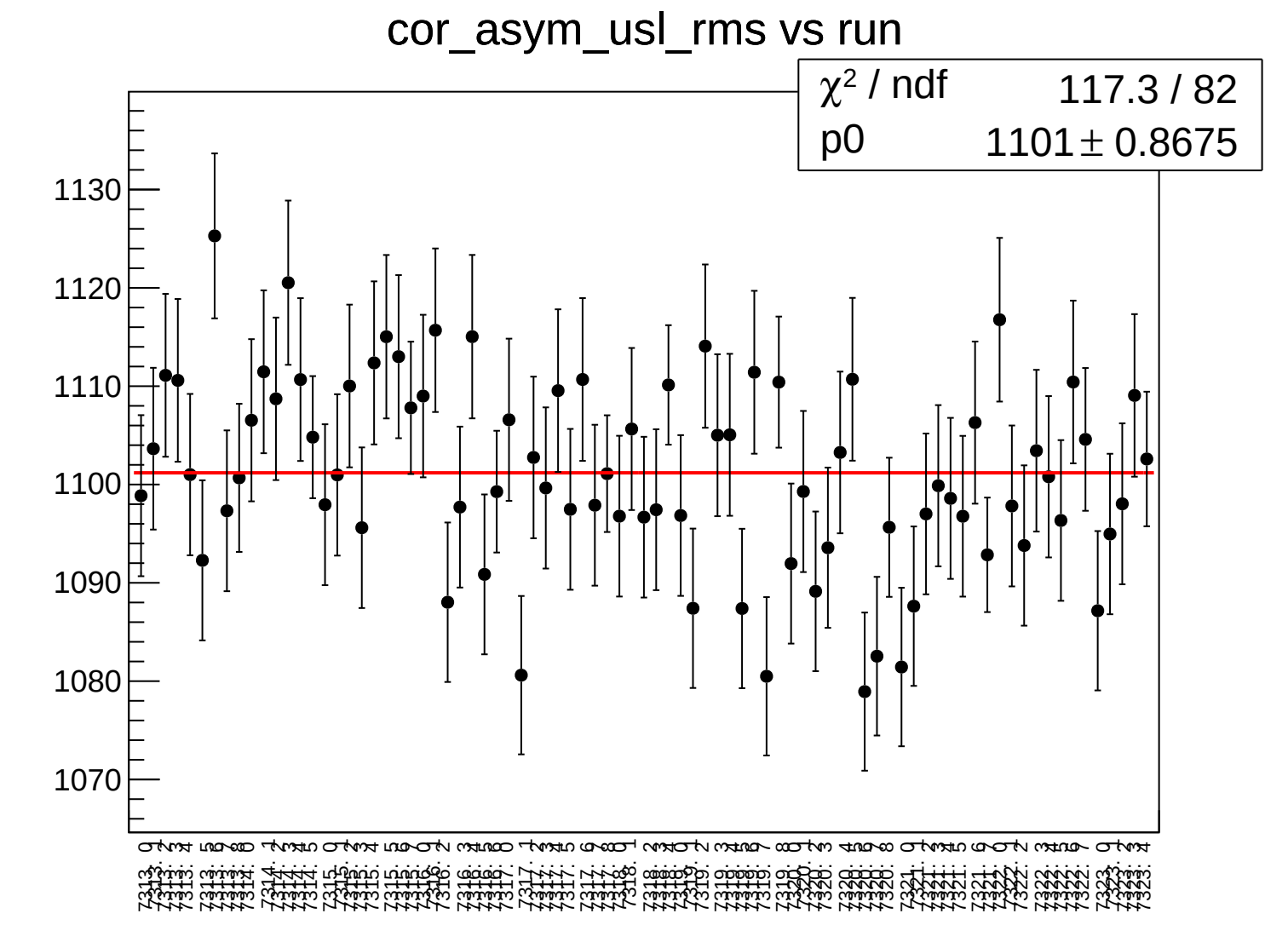

asym_usl_reg_correction_mean vs run
χ² / ndf 77.46 / 82
p0 2232 ± 2221
pull
Entries 83
Mean 387.9
Std Dev 0

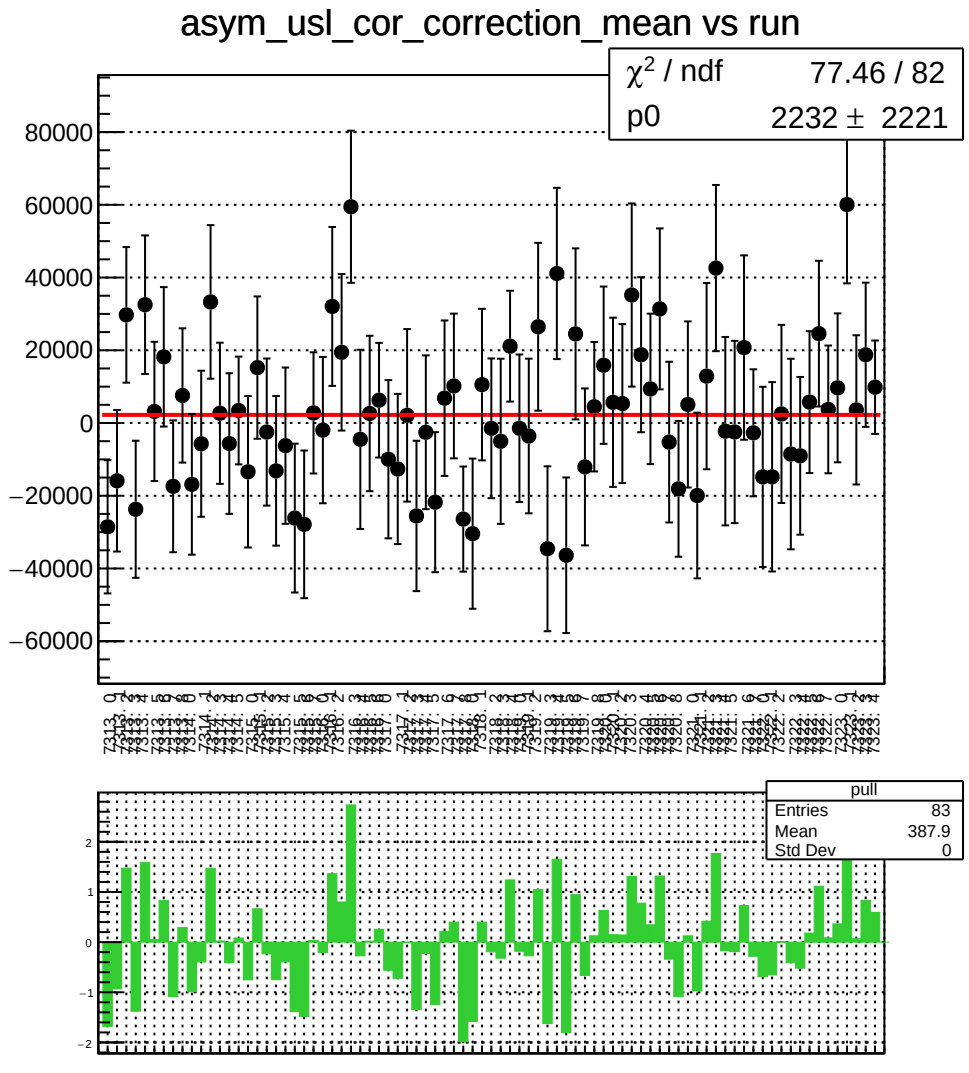

pull1D
Entries 83
Mean 0.01171
Std Dev 0.966

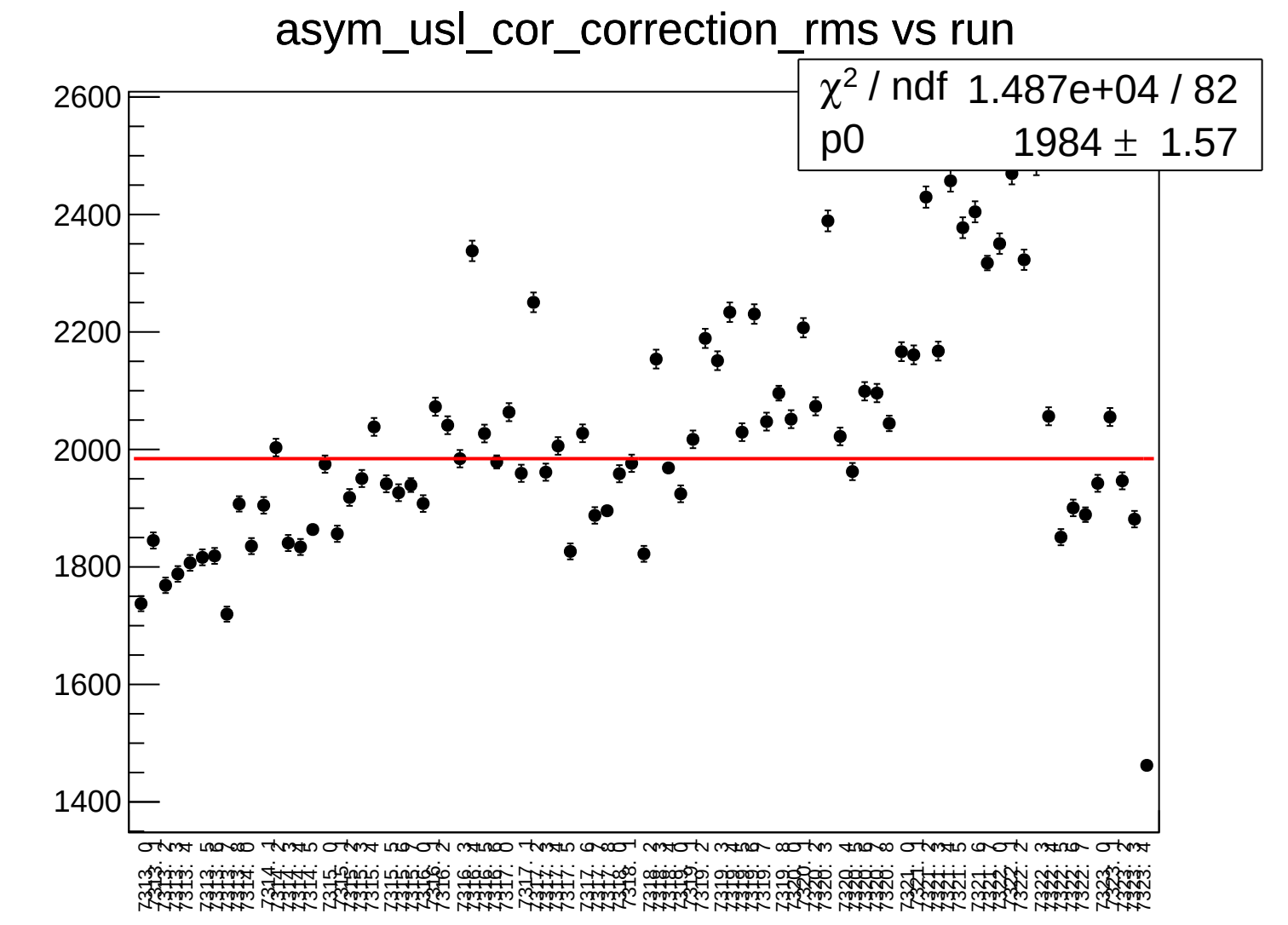

asym_usl_reg_correction_rms vs run
χ² / ndf 1.487e+04 / 82
p0 1984 ± 1.57
2600
2400
2200
2000
1800
1600
1400

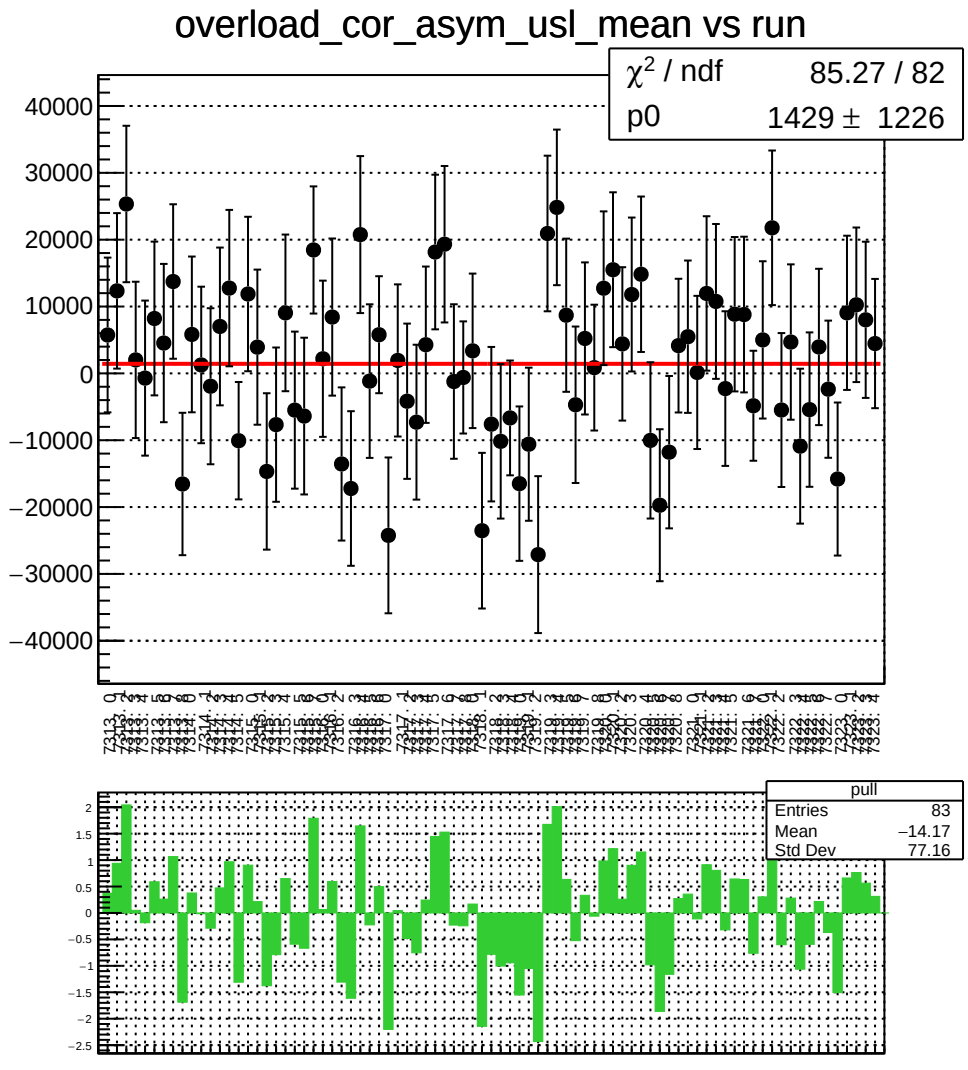

cor_asym_usl_mean vs run
χ² / ndf 85.35 / 82
p0 1475 ± 1227
pull
Entries 83
Mean −1.531
Std Dev 86.62

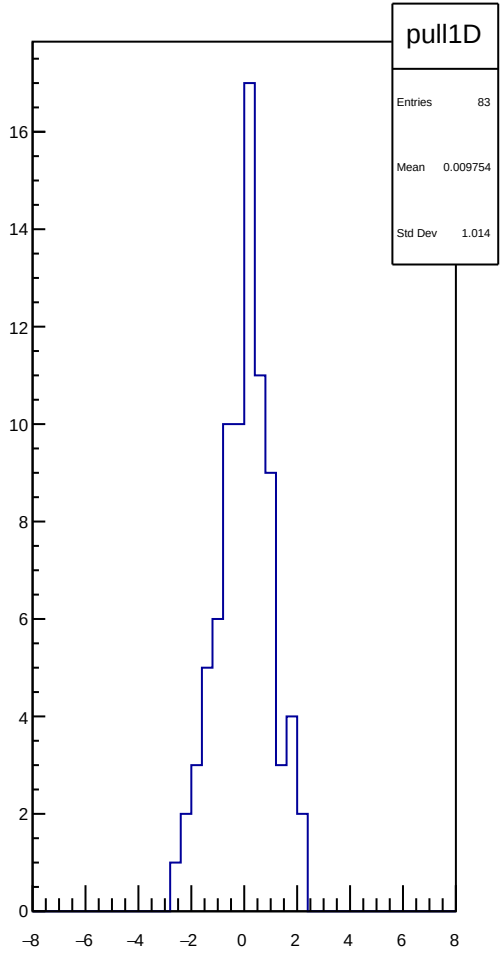

pull1D
Entries 83
Mean 0.009431
Std Dev 1.014

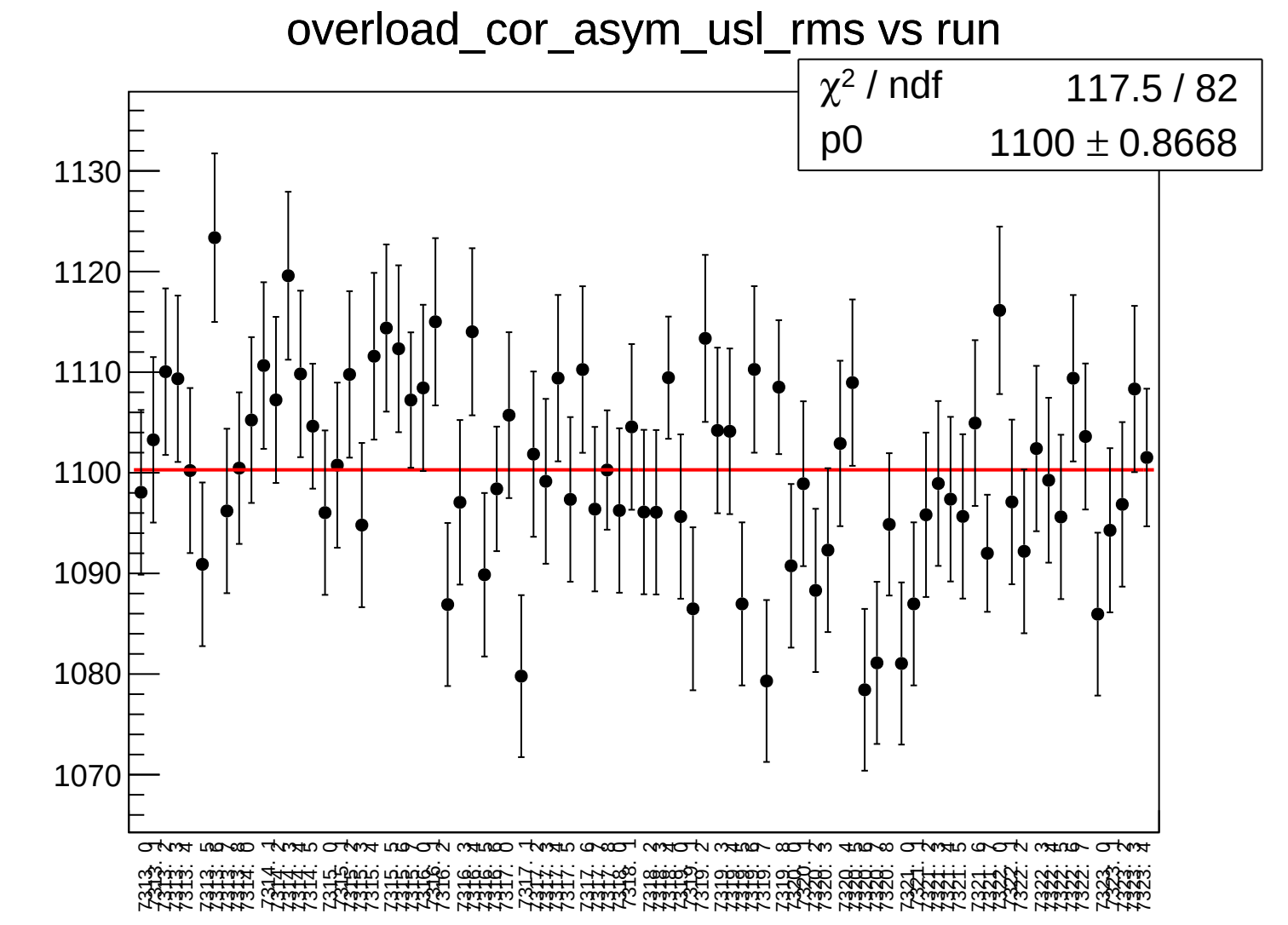

cor_asym_usl_rms vs run
χ² / ndf 117.3 / 82
p0 1101 ± 0.8675
1130
1120
1110
1100
1090
1080
1070

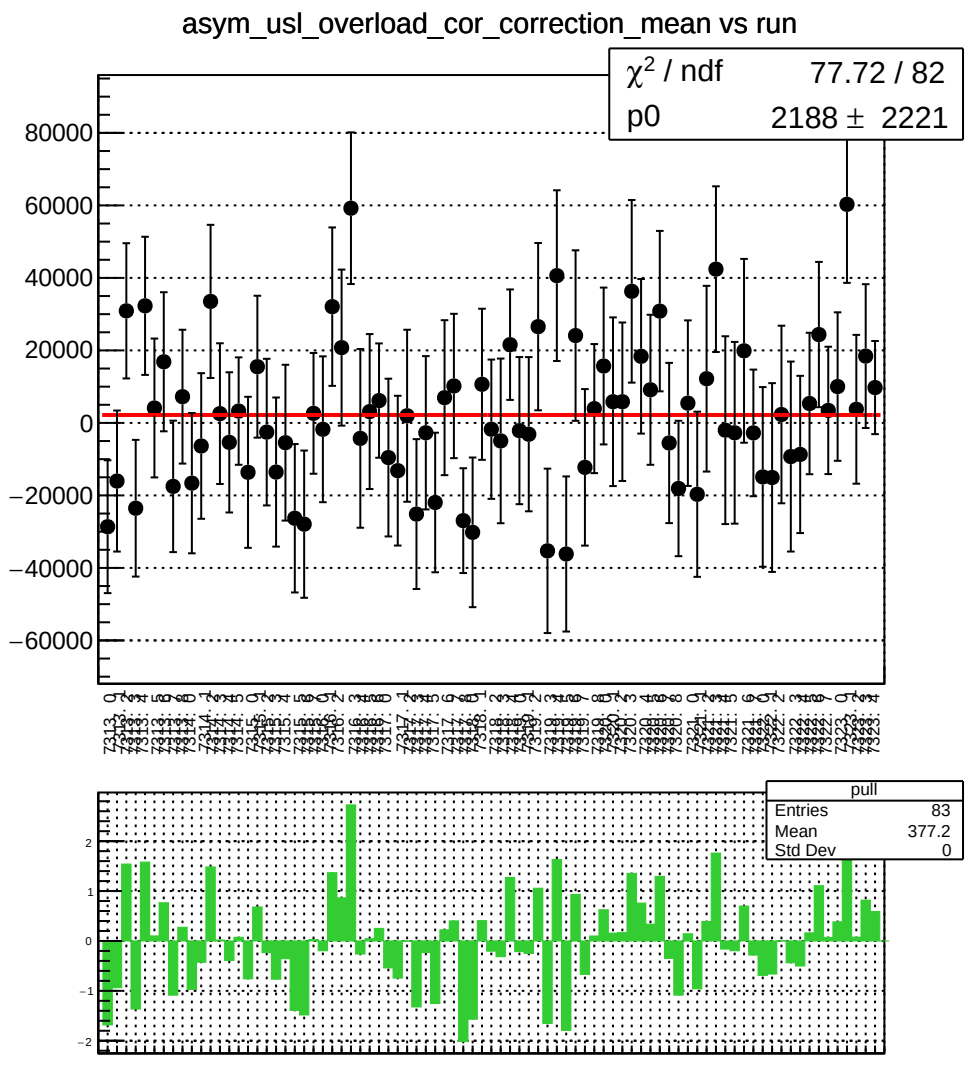

asym_usl_cor_correction_mean vs run
χ² / ndf 77.46 / 82
p0 2232 ± 2221
pull
Entries 83
Mean 387.9
Std Dev 0
pull1D
Entries 83
Mean 0.01171
Std Dev 0.966

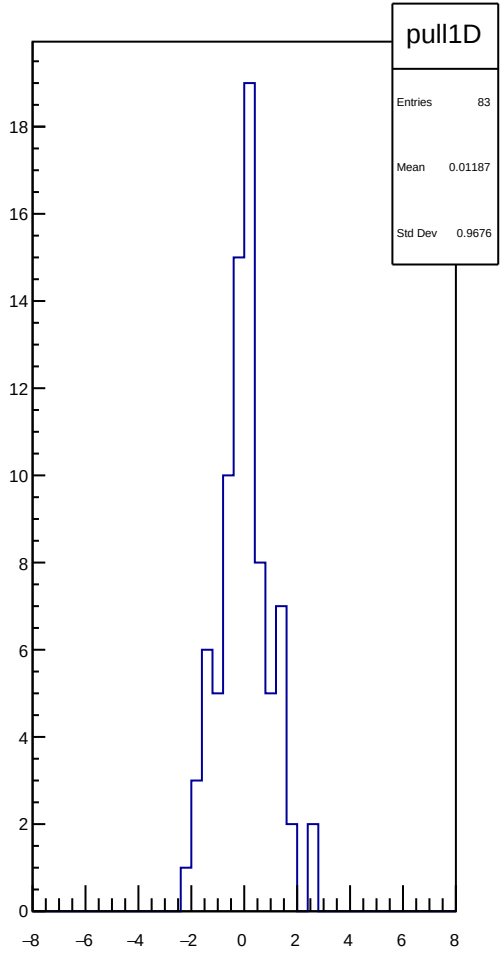

asym_usl_cor_correction_rms vs run
χ² / ndf 1.487e+04 / 82
p0 1984 ± 1.57
2600
2400
2200
2000
1800
1600
1400

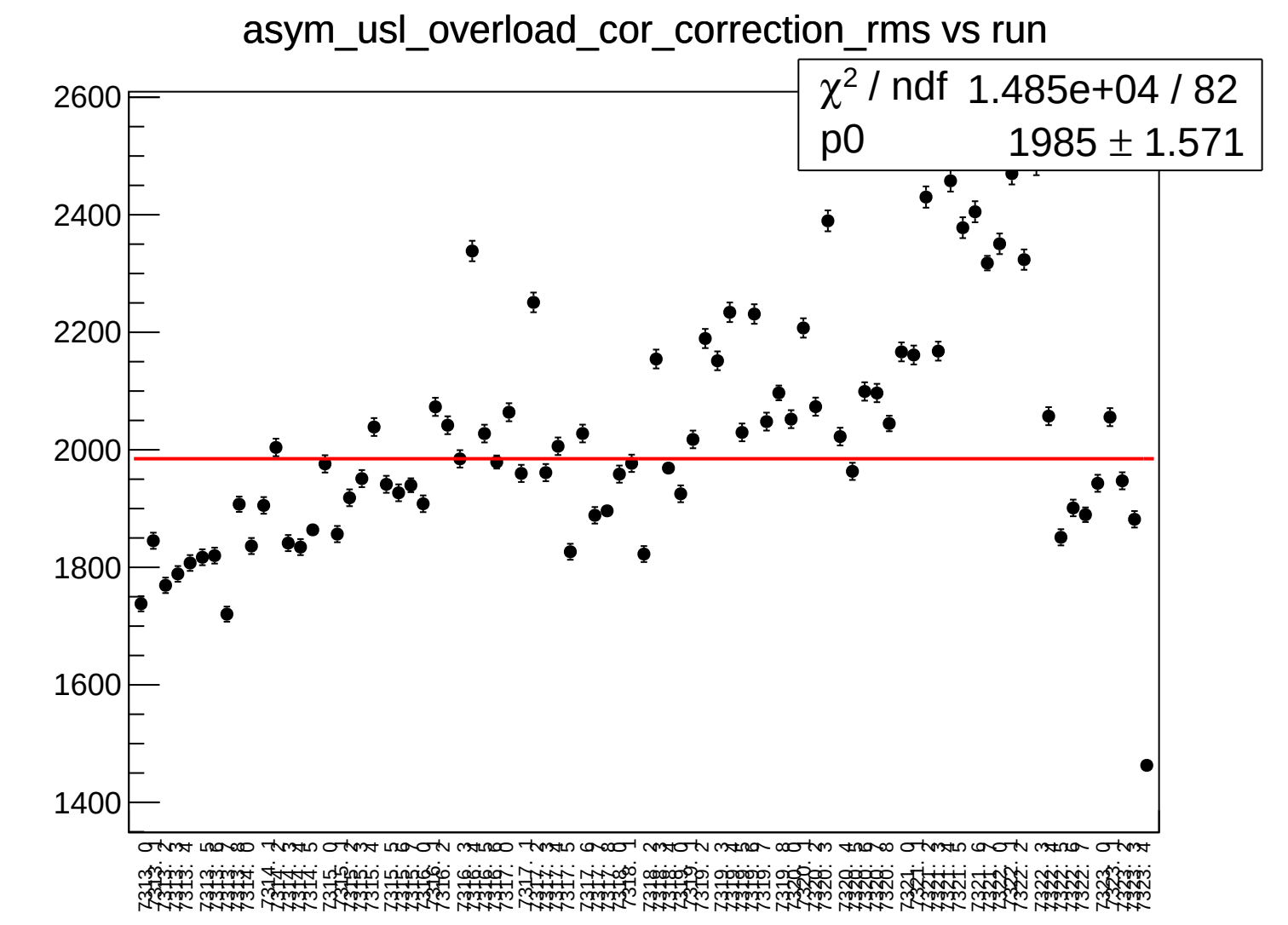

overload_cor_asym_usl_mean vs run
χ² / ndf 85.27 / 82
p0 1429 ± 1226
pull
Entries 83
Mean −14.17
Std Dev 77.16

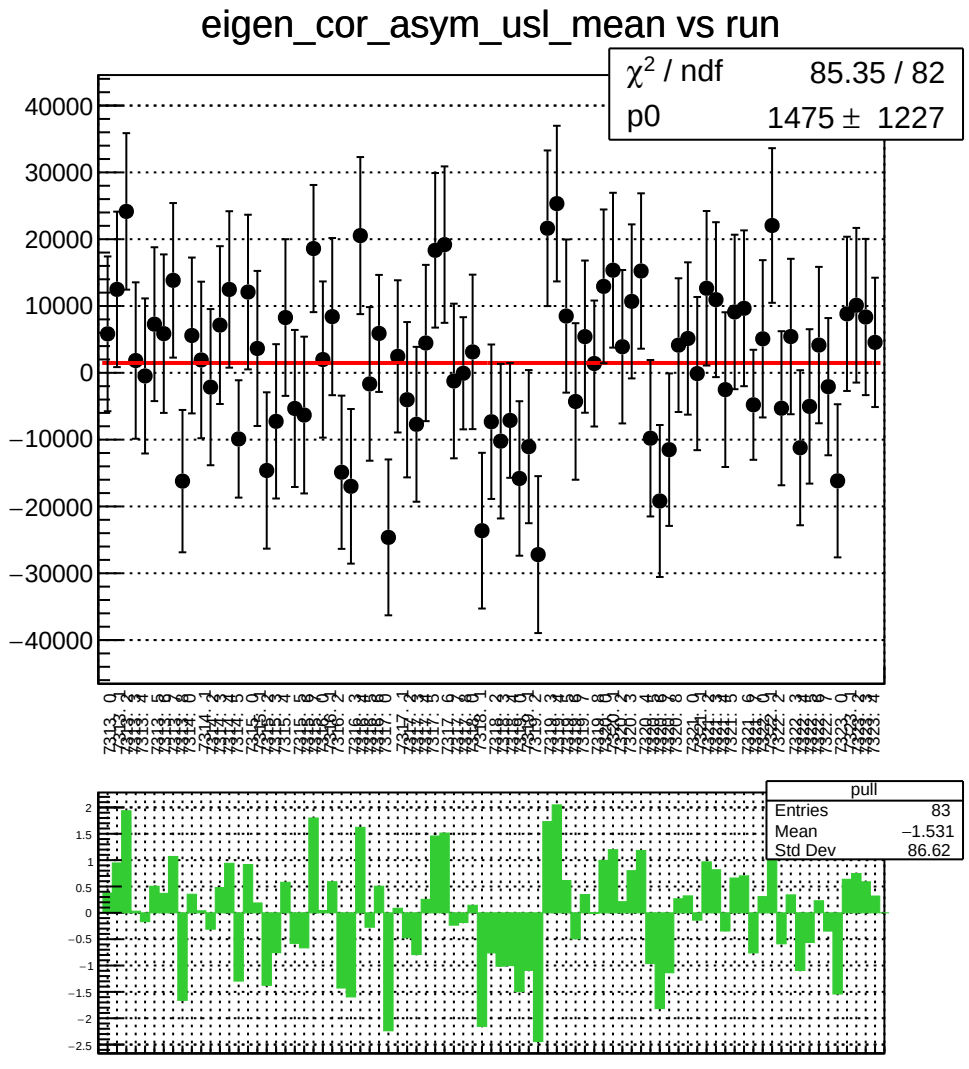

pull1D
Entries 83
Mean 0.009754
Std Dev 1.014

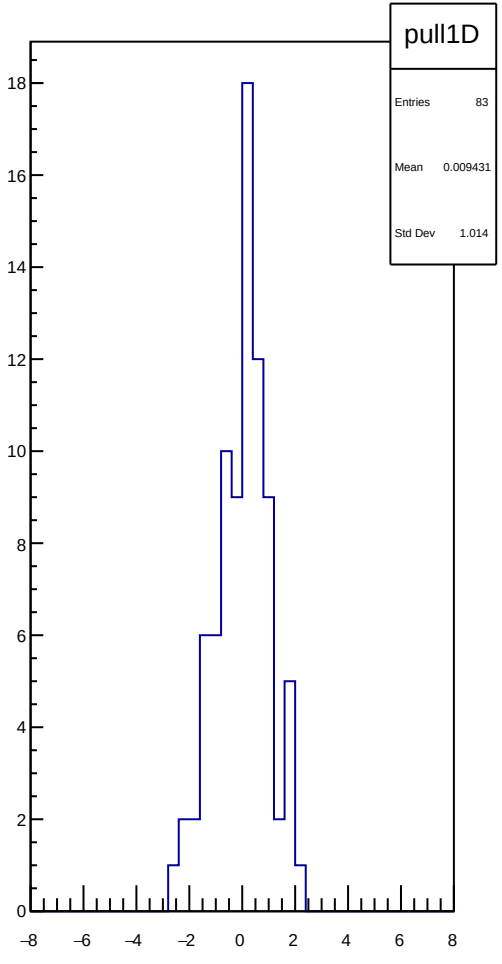

overload_cor_asym_usl_rms vs run
χ² / ndf 117.5 / 82
p0 1100 ± 0.8668
1130
1120
1110
1100
1090
1080
1070

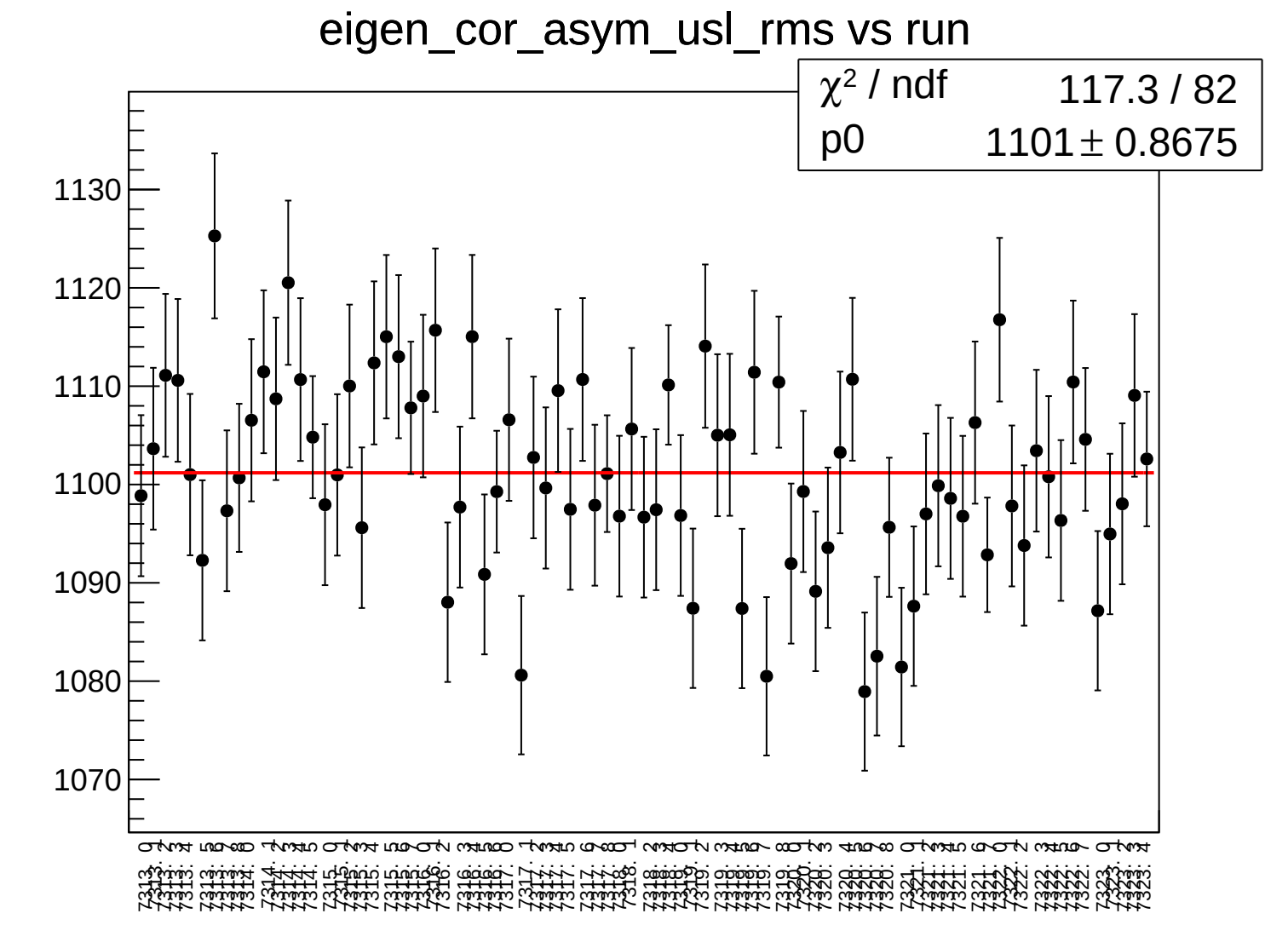

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 77.72 / 82
p0 2188 ± 2221
pull
Entries 83
Mean 377.2
Std Dev 0

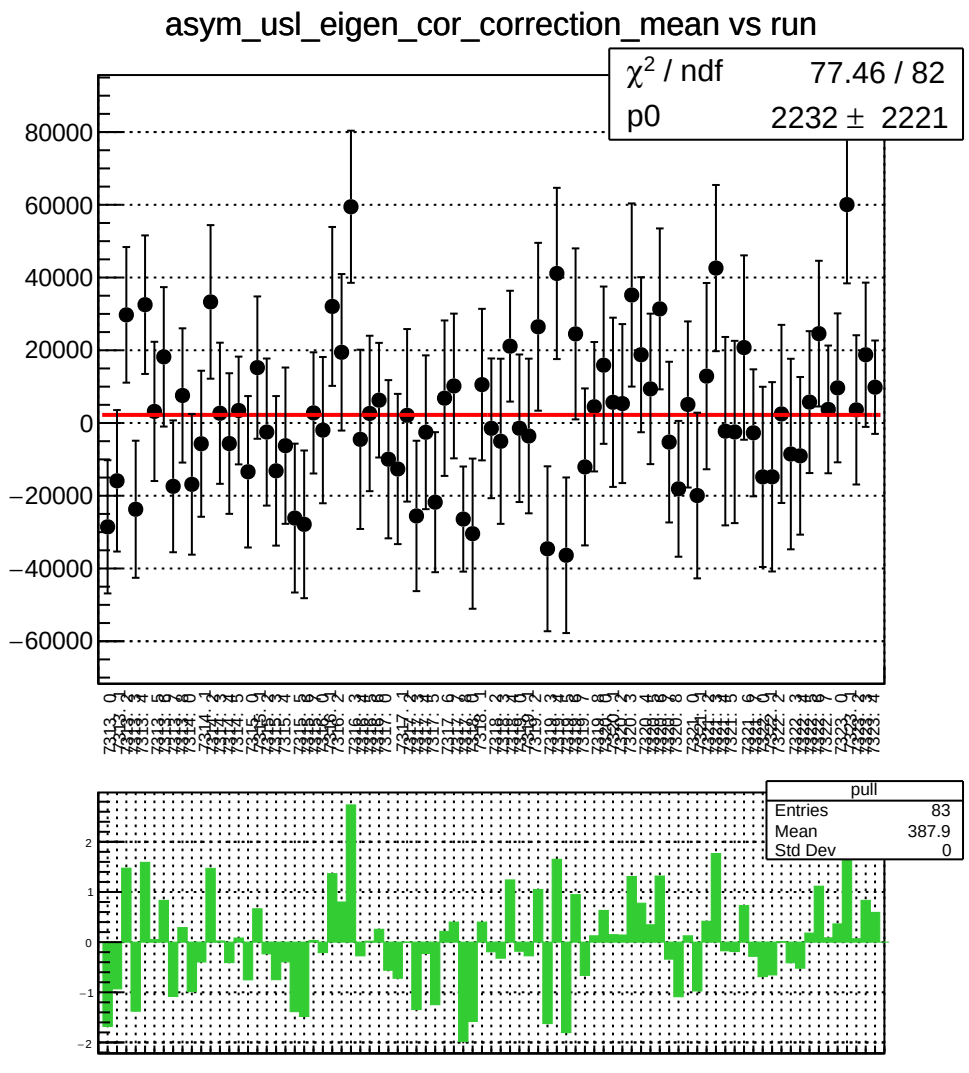

pull1D
Entries 83
Mean 0.01187
Std Dev 0.9676

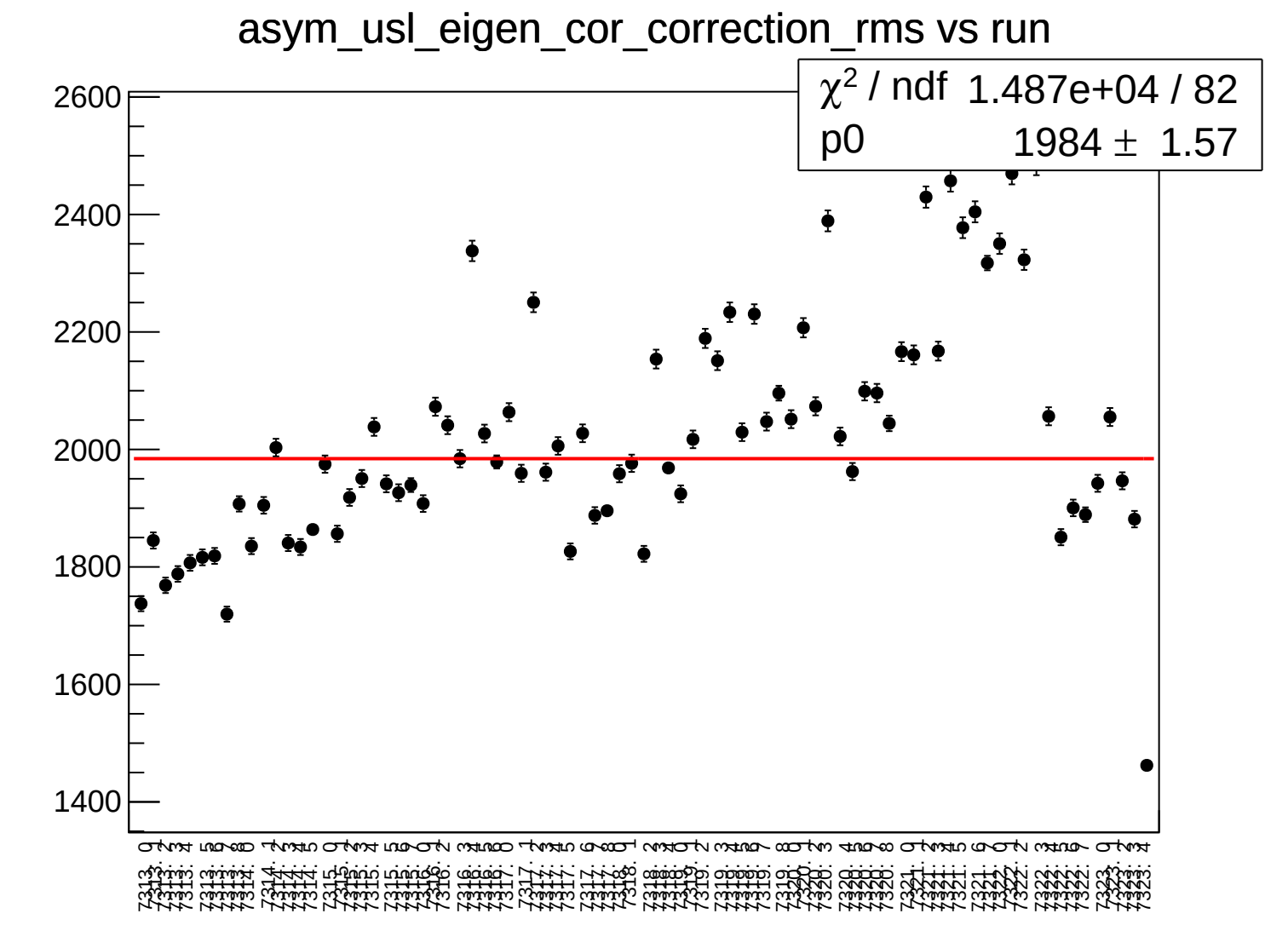

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.485e+04 / 82
p0 1985 ± 1.571
2600
2400
2200
2000
1800
1600
1400

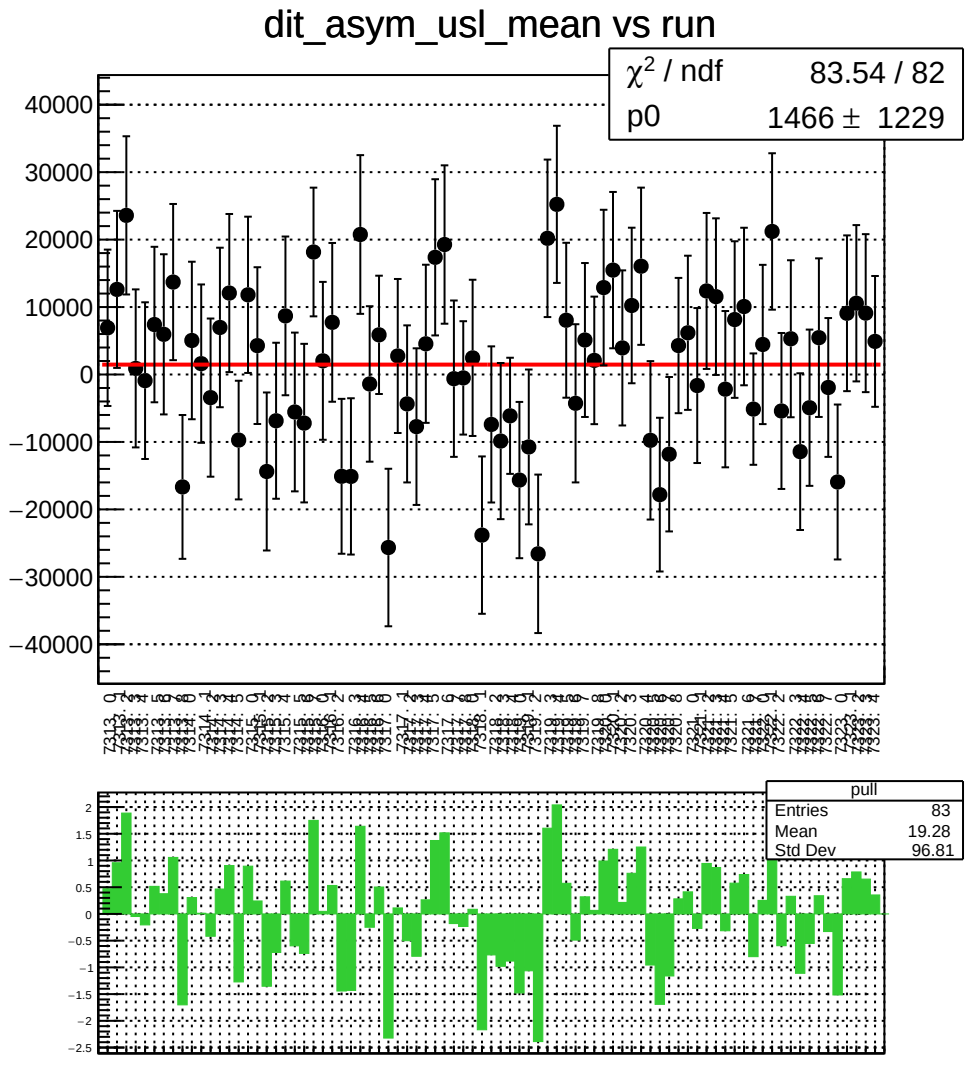

eigen_cor_asym_usl_mean vs run
χ² / ndf 85.35 / 82
p0 1475 ± 1227
pull
Entries 83
Mean −1.531
Std Dev 86.62

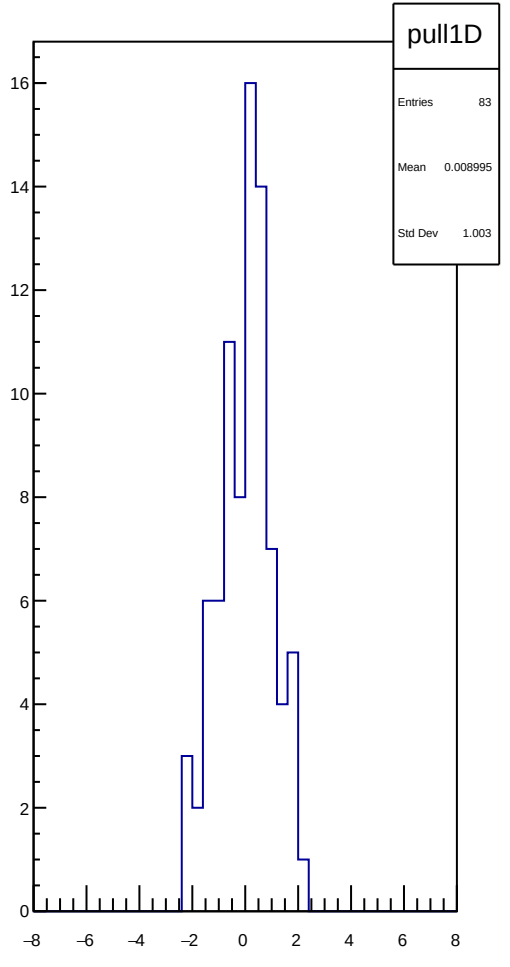

pull1D
Entries 83
Mean 0.009431
Std Dev 1.014

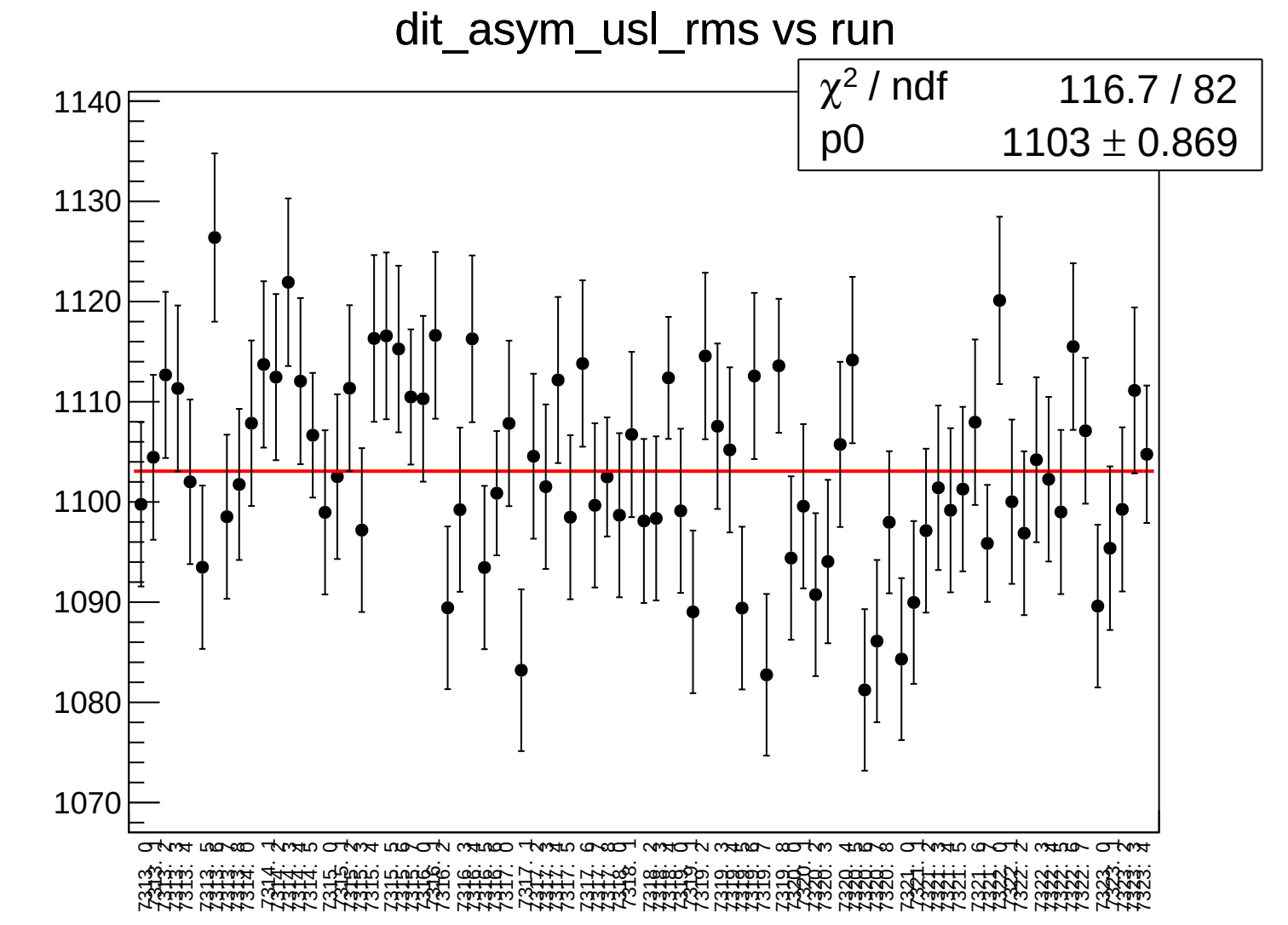

eigen_cor_asym_usl_rms vs run
χ² / ndf 117.3 / 82
p0 1101 ± 0.8675
1130
1120
1110
1100
1090
1080
1070

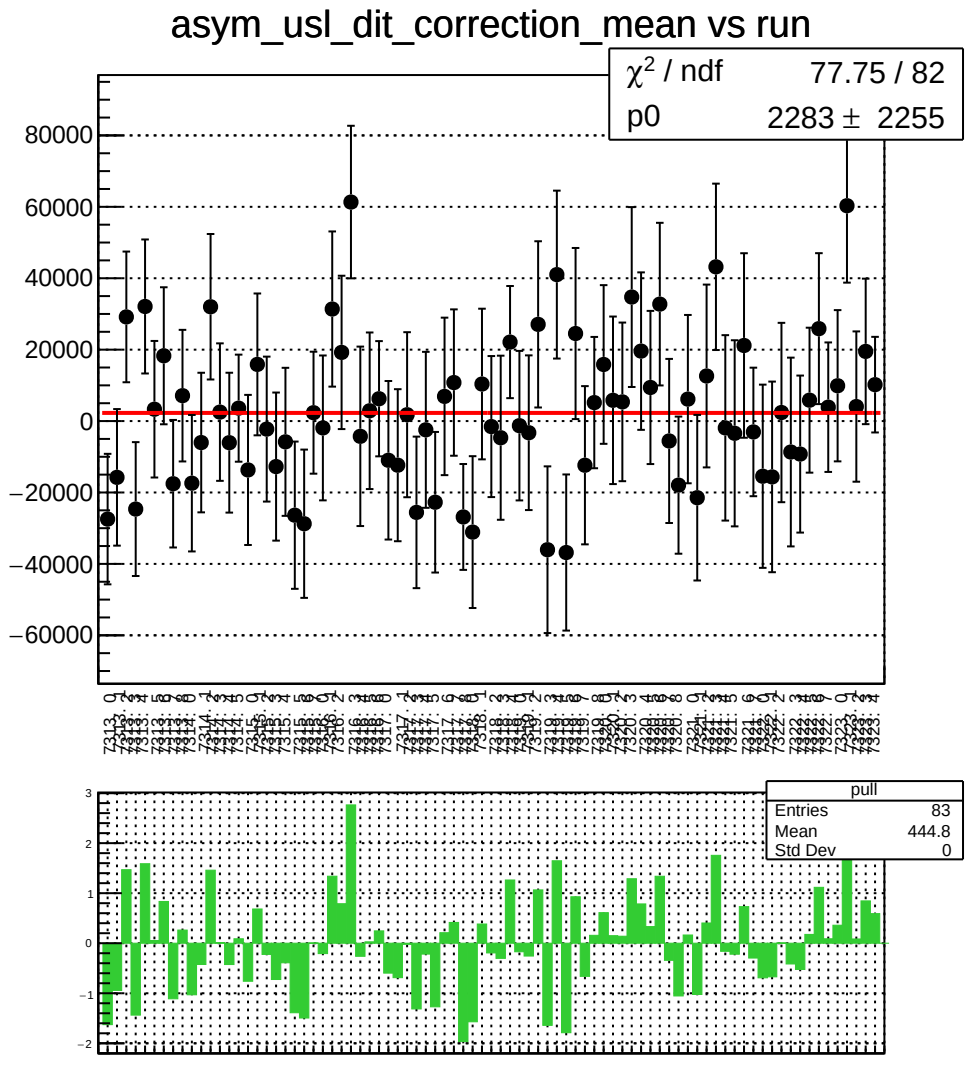

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 77.46 / 82
p0 2232 ± 2221
pull
Entries 83
Mean 387.9
Std Dev 0
pull1D
Entries 83
Mean 0.01171
Std Dev 0.966

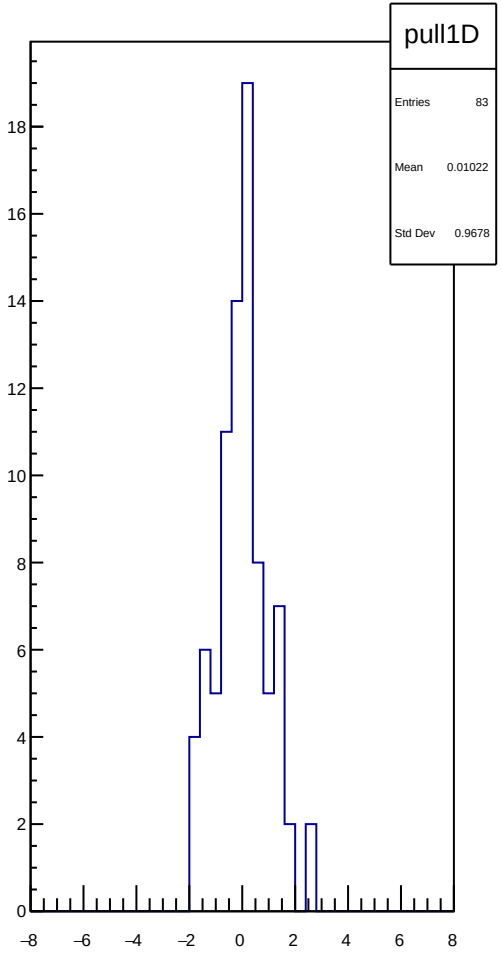

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.487e+04 / 82
p0 1984 ± 1.57
2600
2400
2200
2000
1800
1600
1400

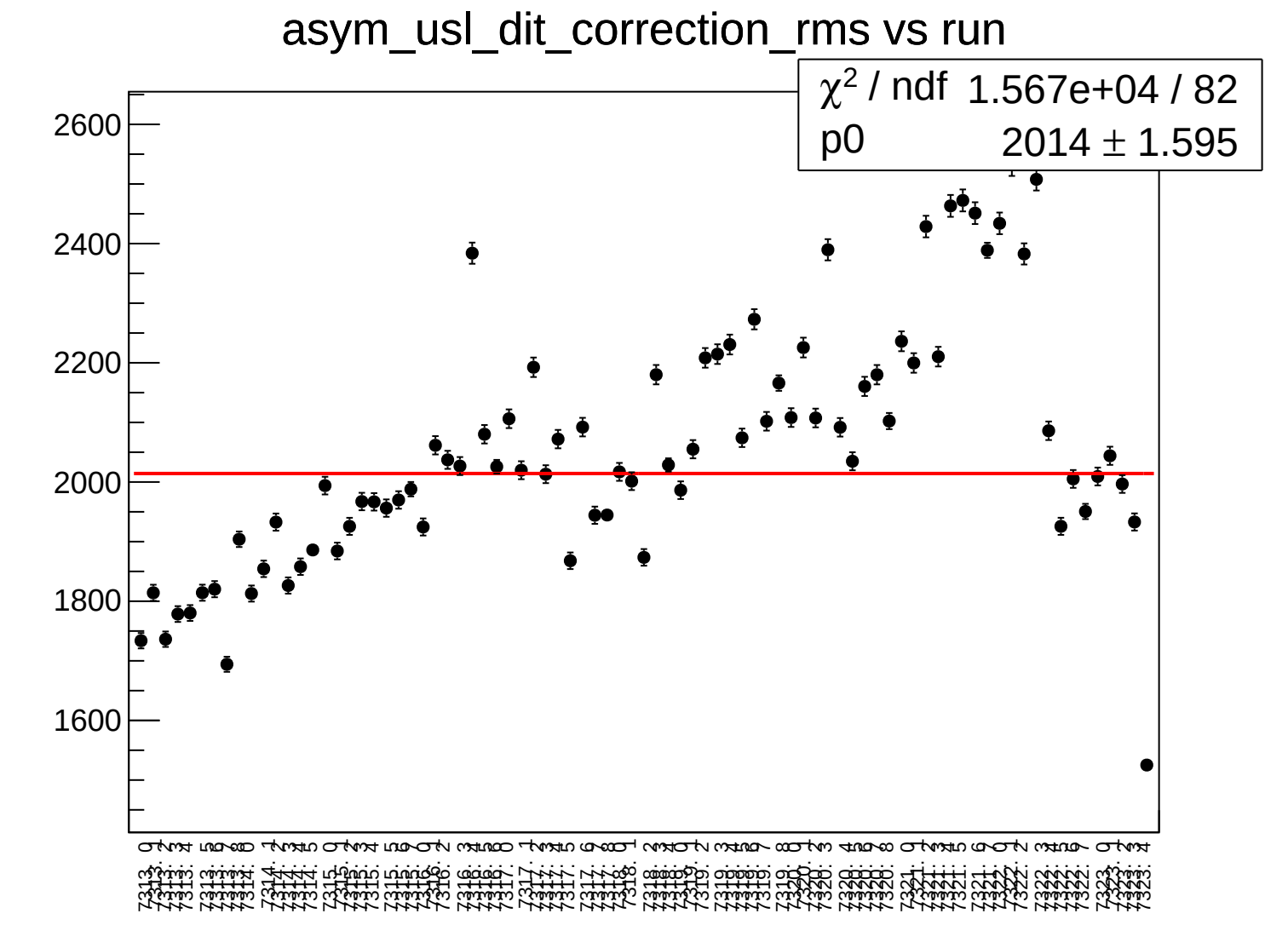

dit_asym_usl_mean vs run
χ² / ndf 83.54 / 82
p0 1466 ± 1229
pull
Entries 83
Mean 19.28
Std Dev 96.81

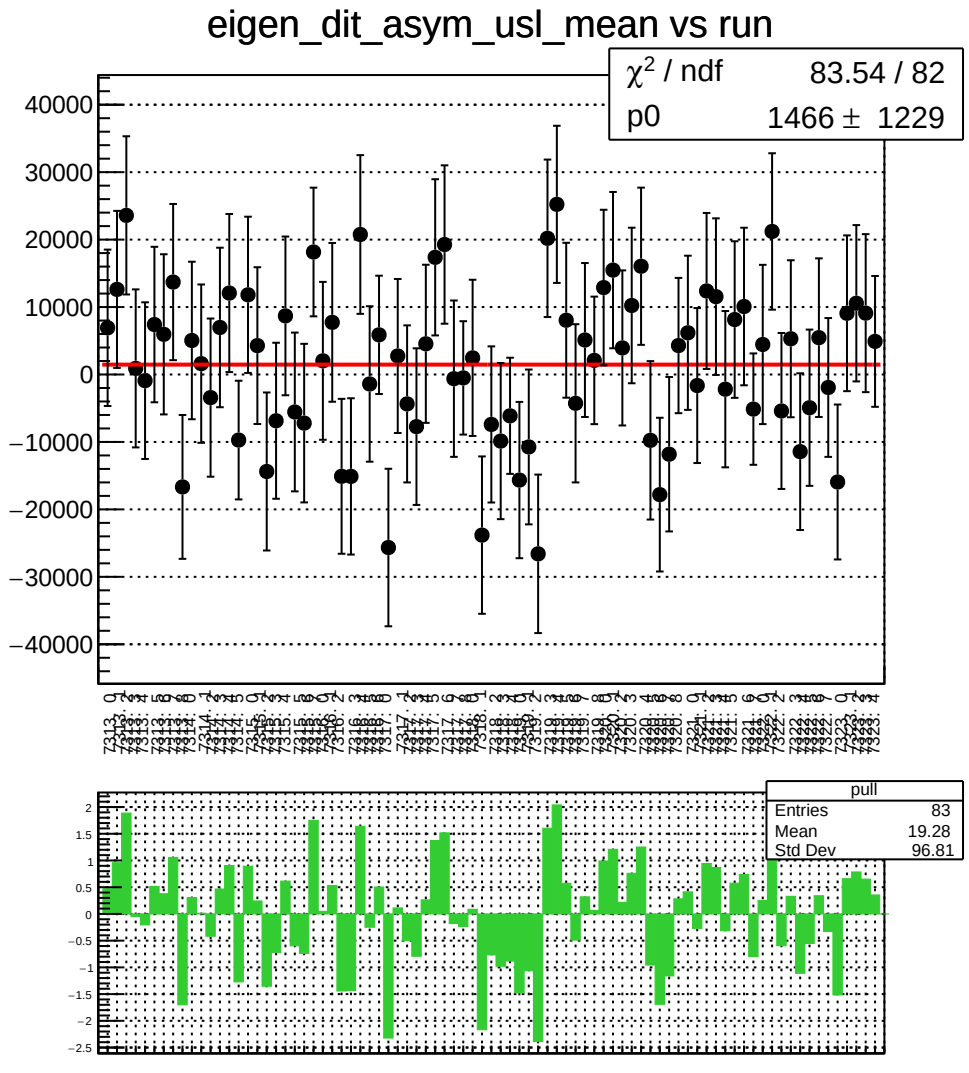

pull1D
Entries 83
Mean 0.008995
Std Dev 1.003

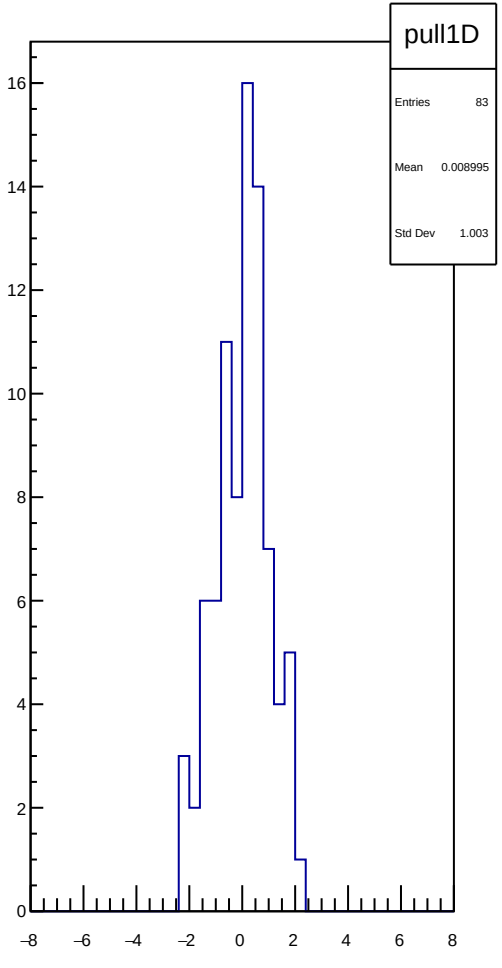

dit_asym_usl_rms vs run
χ² / ndf 116.7 / 82
p0 1103 ± 0.869
1140
1130
1120
1110
1100
1090
1080
1070

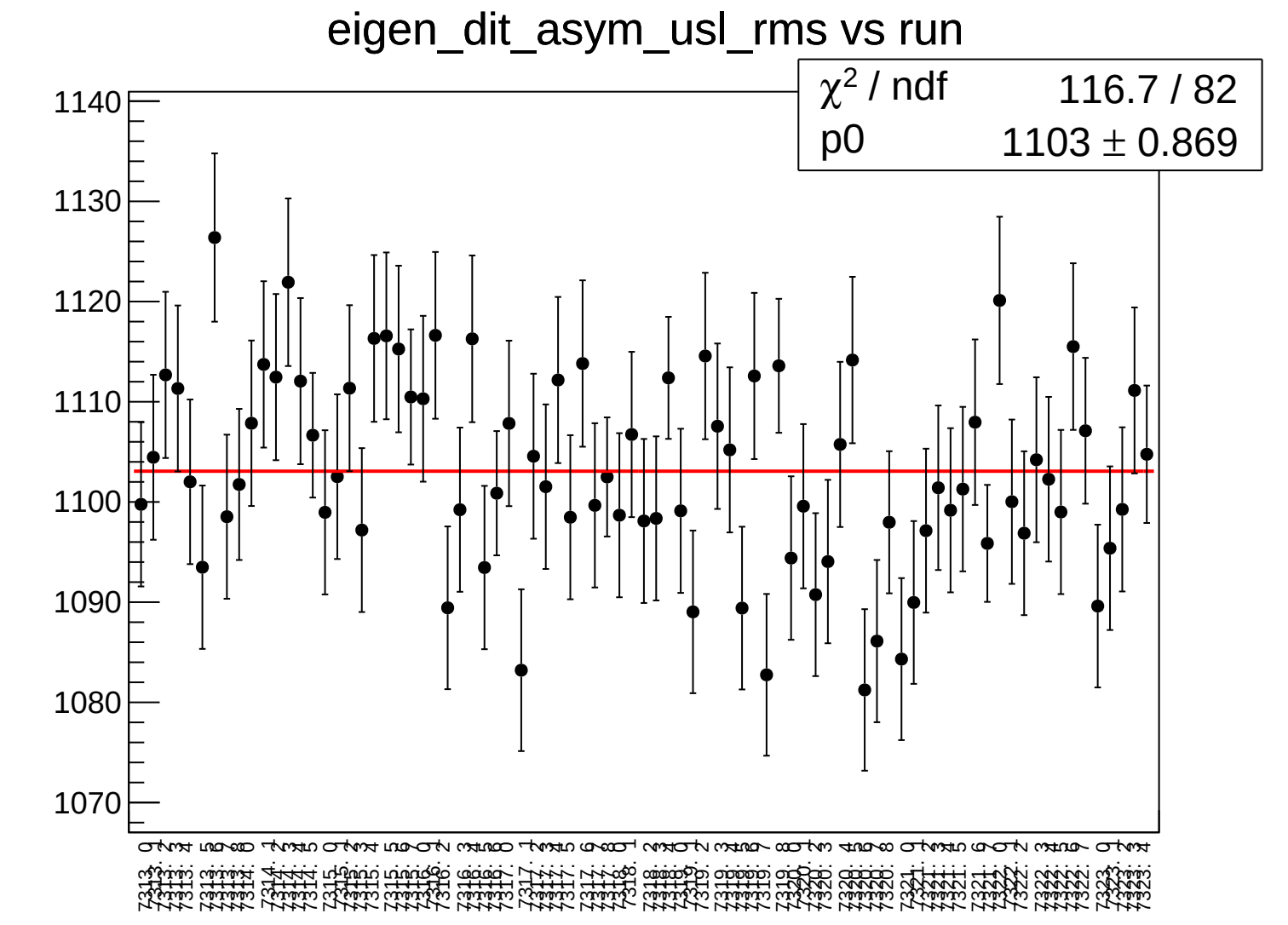

asym_usl_dit_correction_mean vs run
χ² / ndf 77.75 / 82
p0 2283 ± 2255
pull
Entries 83
Mean 444.8
Std Dev 0

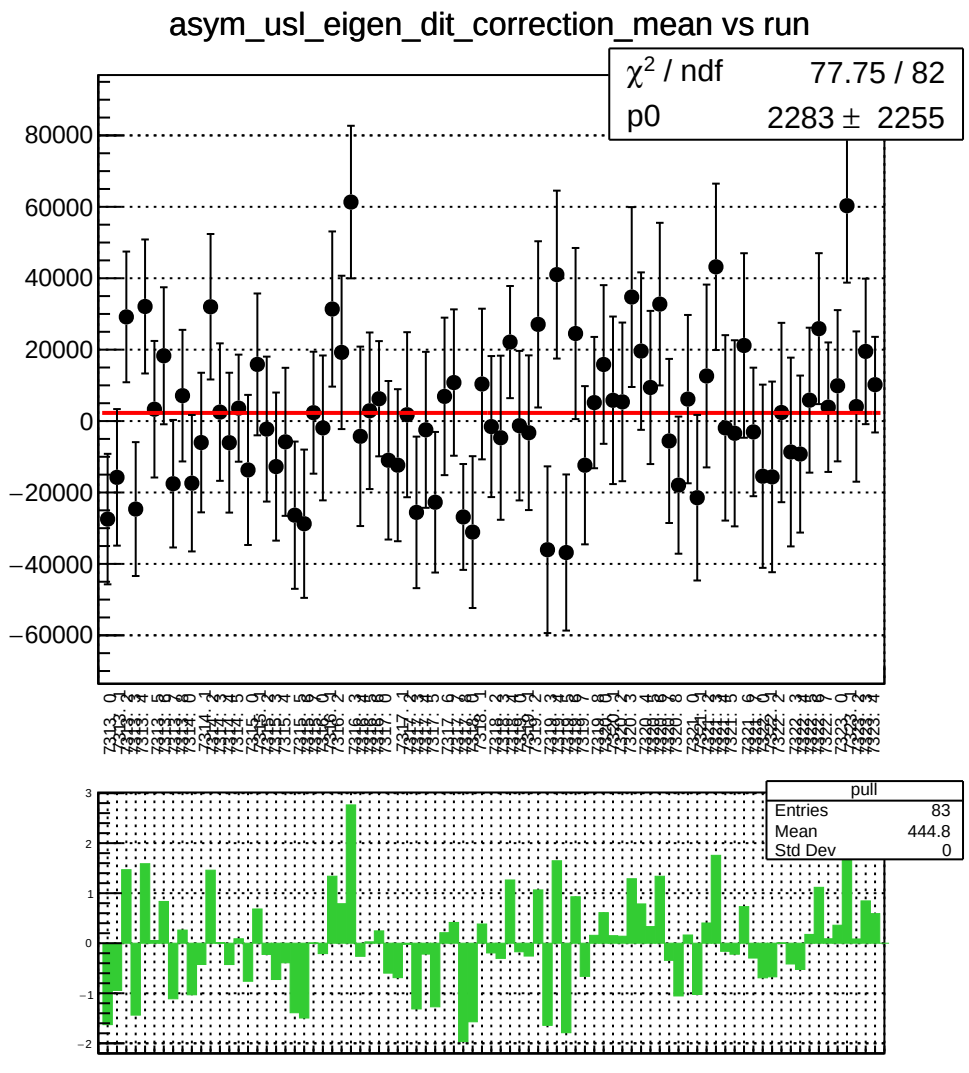

pull1D
Entries 83
Mean 0.01022
Std Dev 0.9678

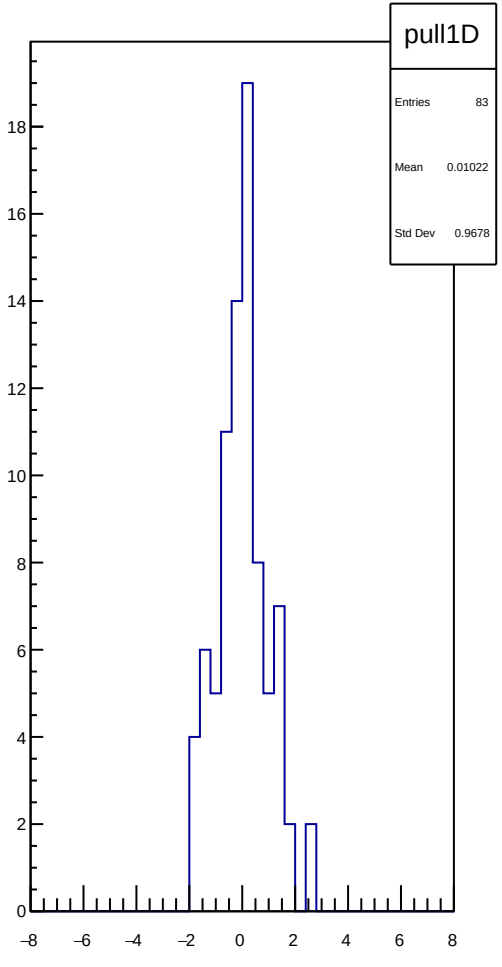

asym_usl_dit_correction_rms vs run
χ² / ndf 1.567e+04 / 82
p0 2014 ± 1.595
2600
2400
2200
2000
1800
1600

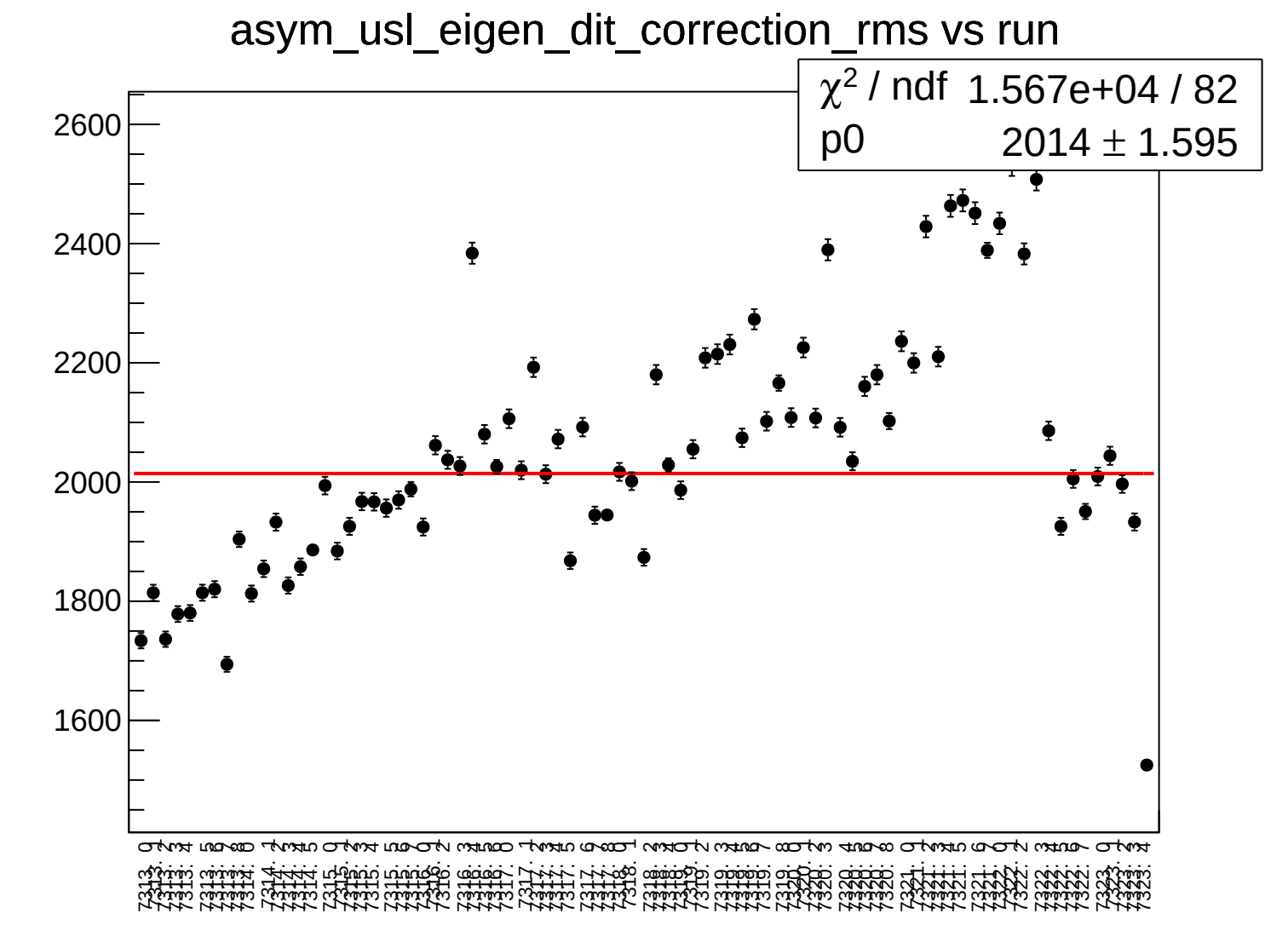

eigen_dit_asym_usl_mean vs run
χ² / ndf 83.54 / 82
p0 1466 ± 1229
pull
Entries 83
Mean 19.28
Std Dev 96.81

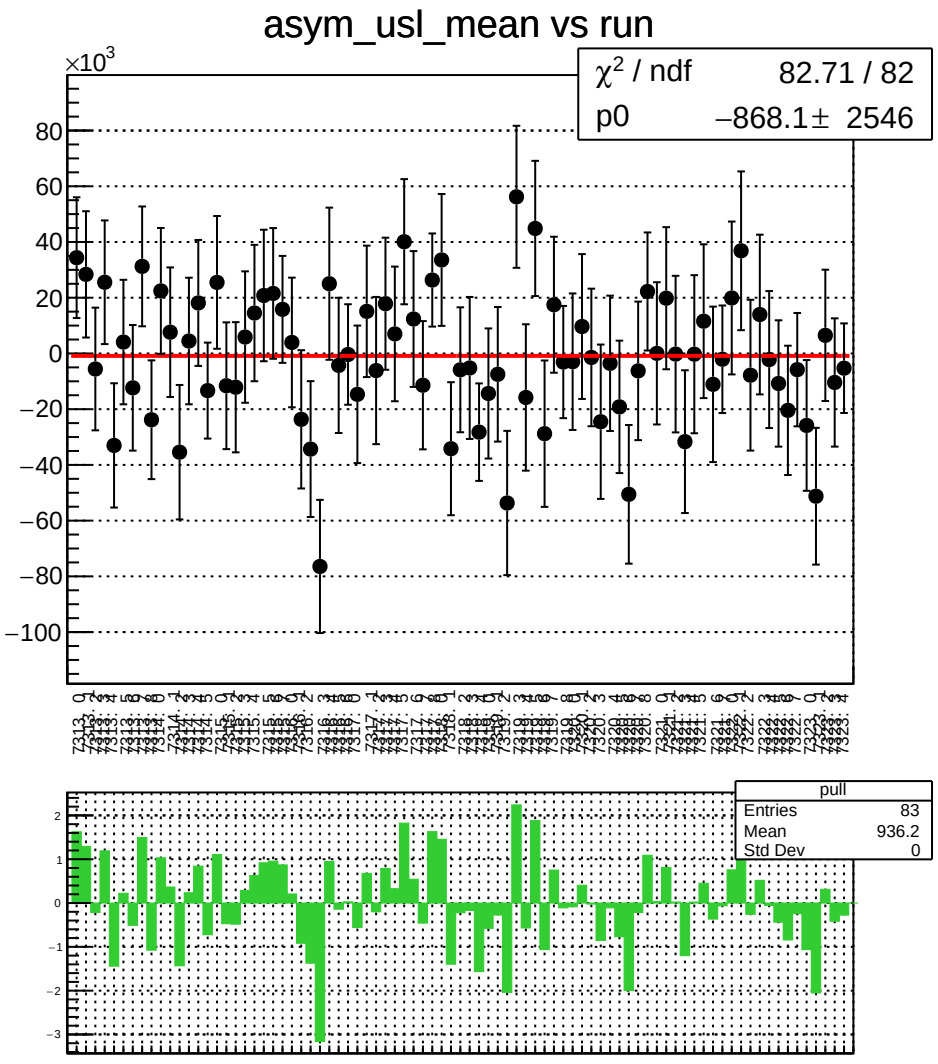

pull1D
Entries 83
Mean 0.008995
Std Dev 1.003

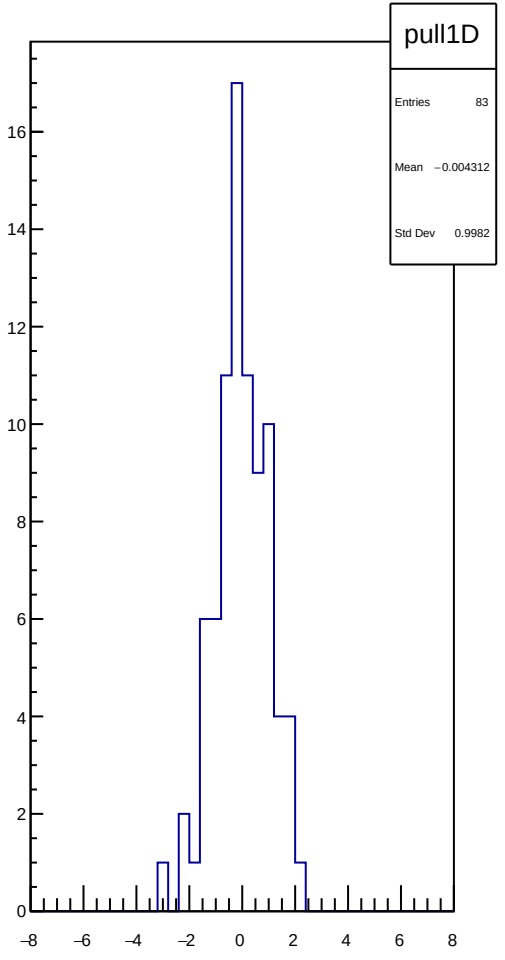

eigen_dit_asym_usl_rms vs run
χ² / ndf 116.7 / 82
p0 1103 ± 0.869
1140
1130
1120
1110
1100
1090
1080
1070

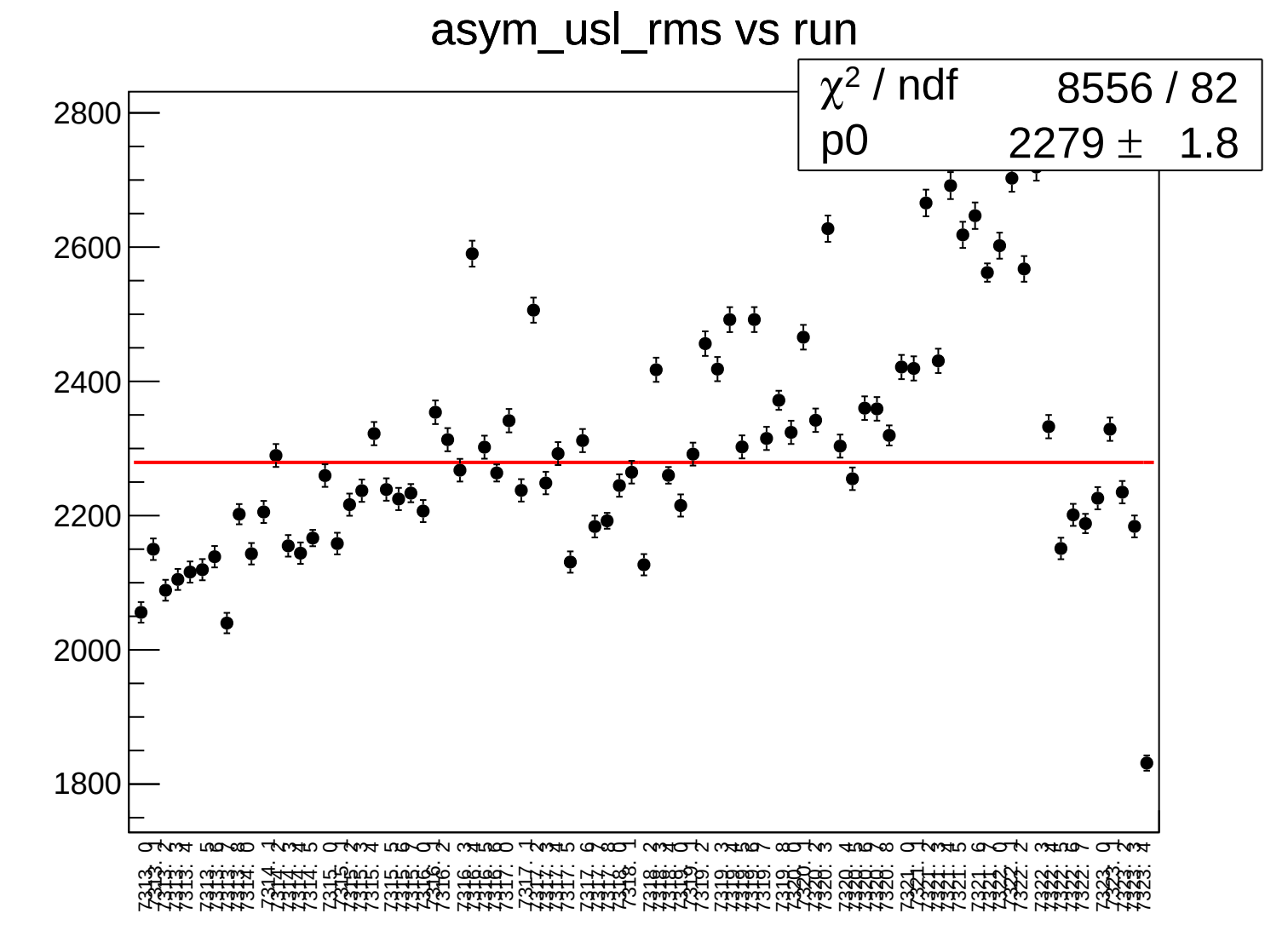

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 77.75 / 82
p0 2283 ± 2255
pull
Entries 83
Mean 444.8
Std Dev 0

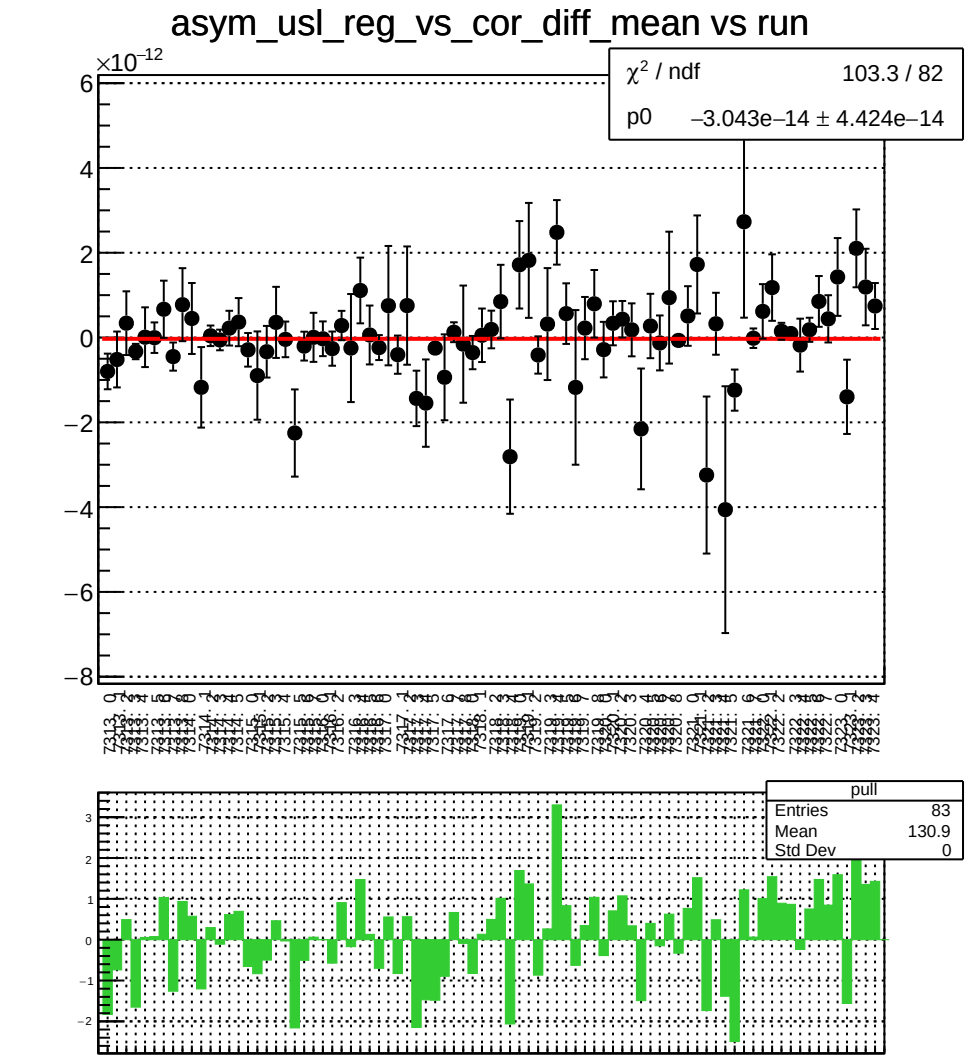

pull1D
Entries 83
Mean 0.01022
Std Dev 0.9678

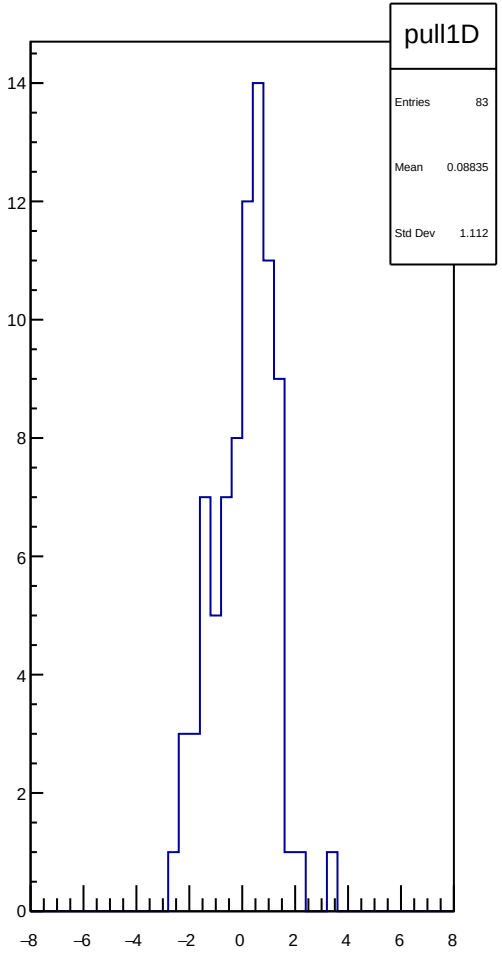

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.567e+04 / 82
p0 2014 ± 1.595
2600
2400
2200
2000
1800
1600

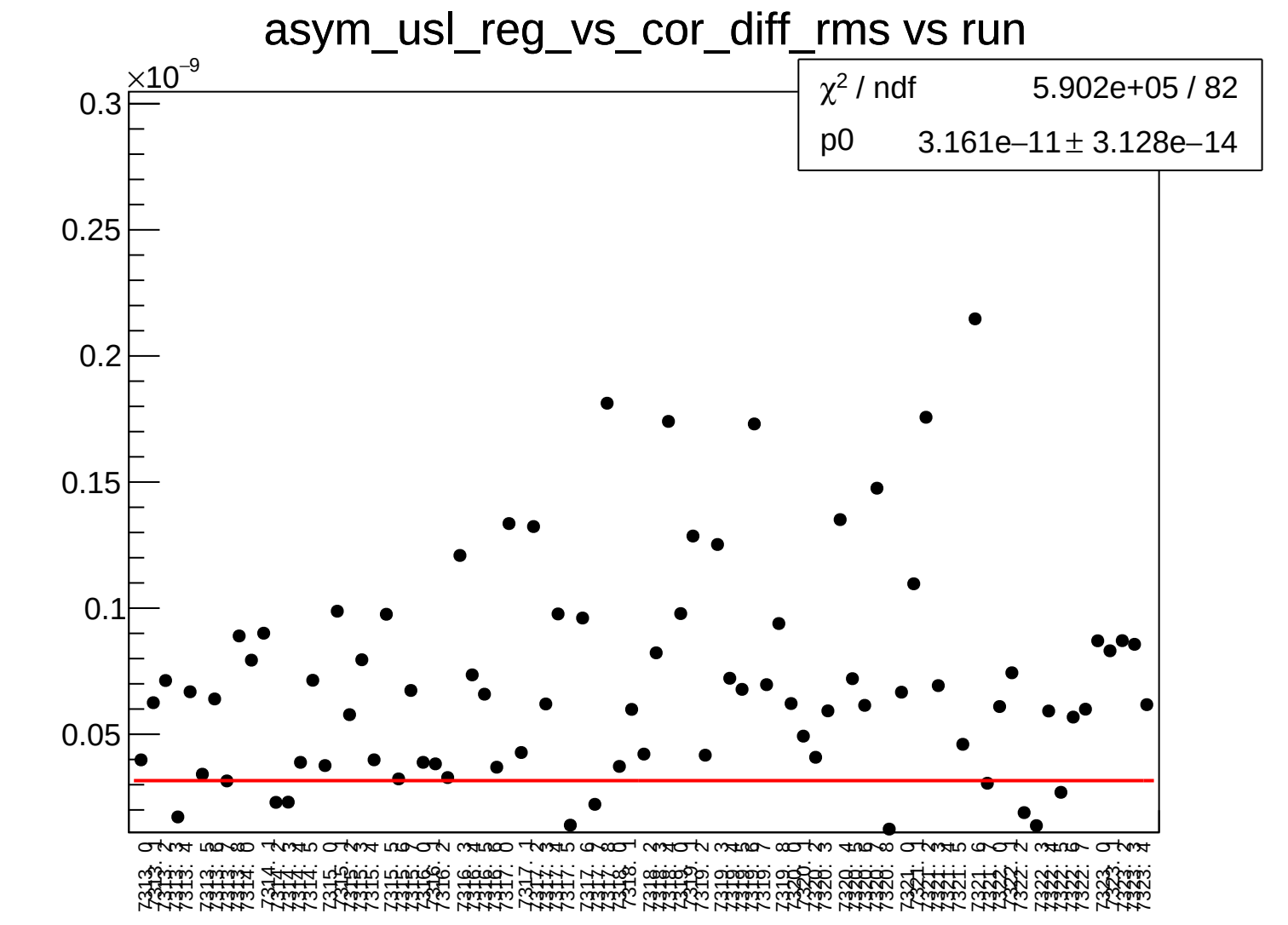

asym_usl_mean vs run
×10^3
χ² / ndf 82.71 / 82
p0 −868.1± 2546
pull
Entries 83
Mean 936.2
Std Dev 0

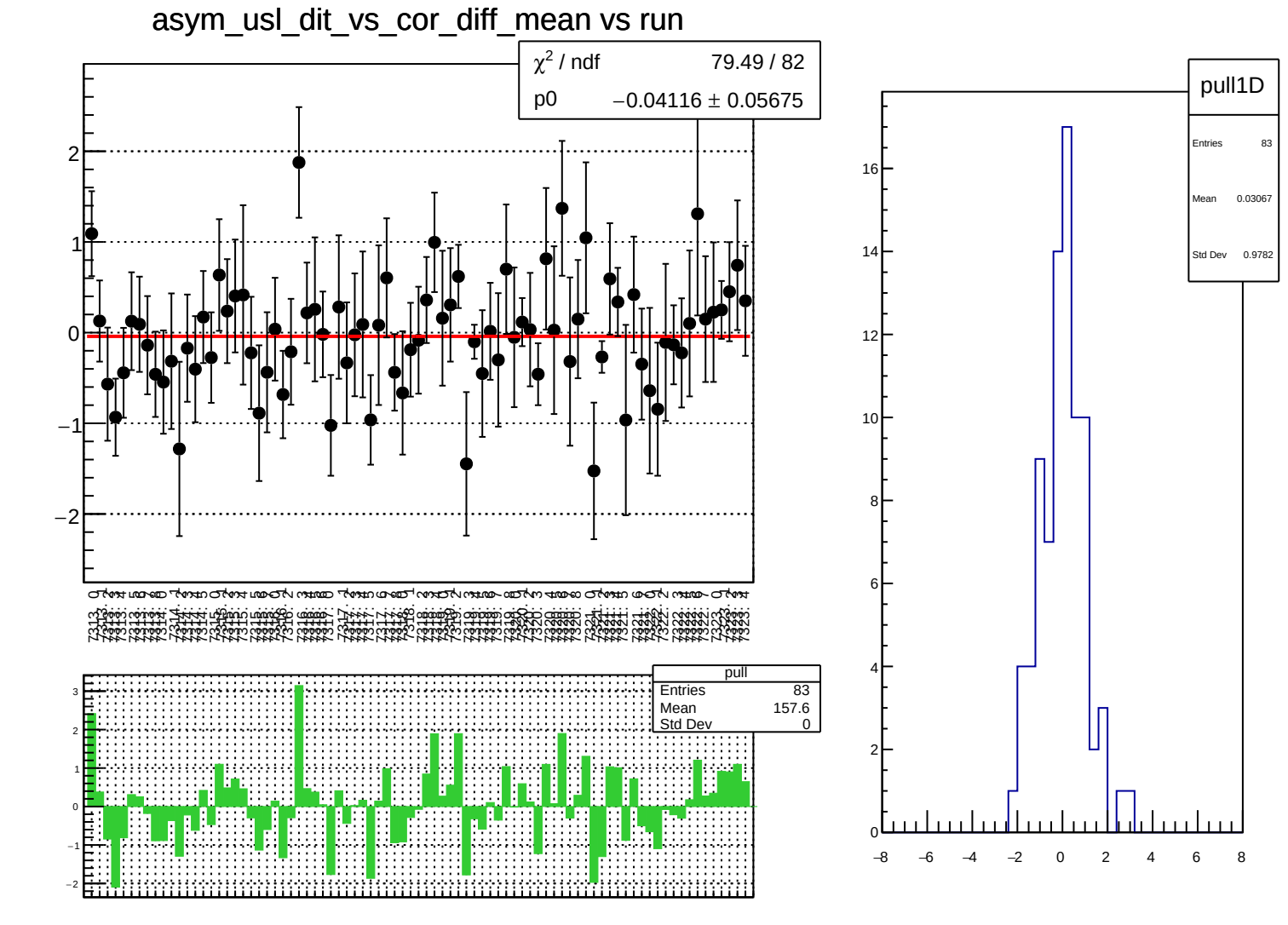

pull1D
Entries 83
Mean −0.004312
Std Dev 0.9982

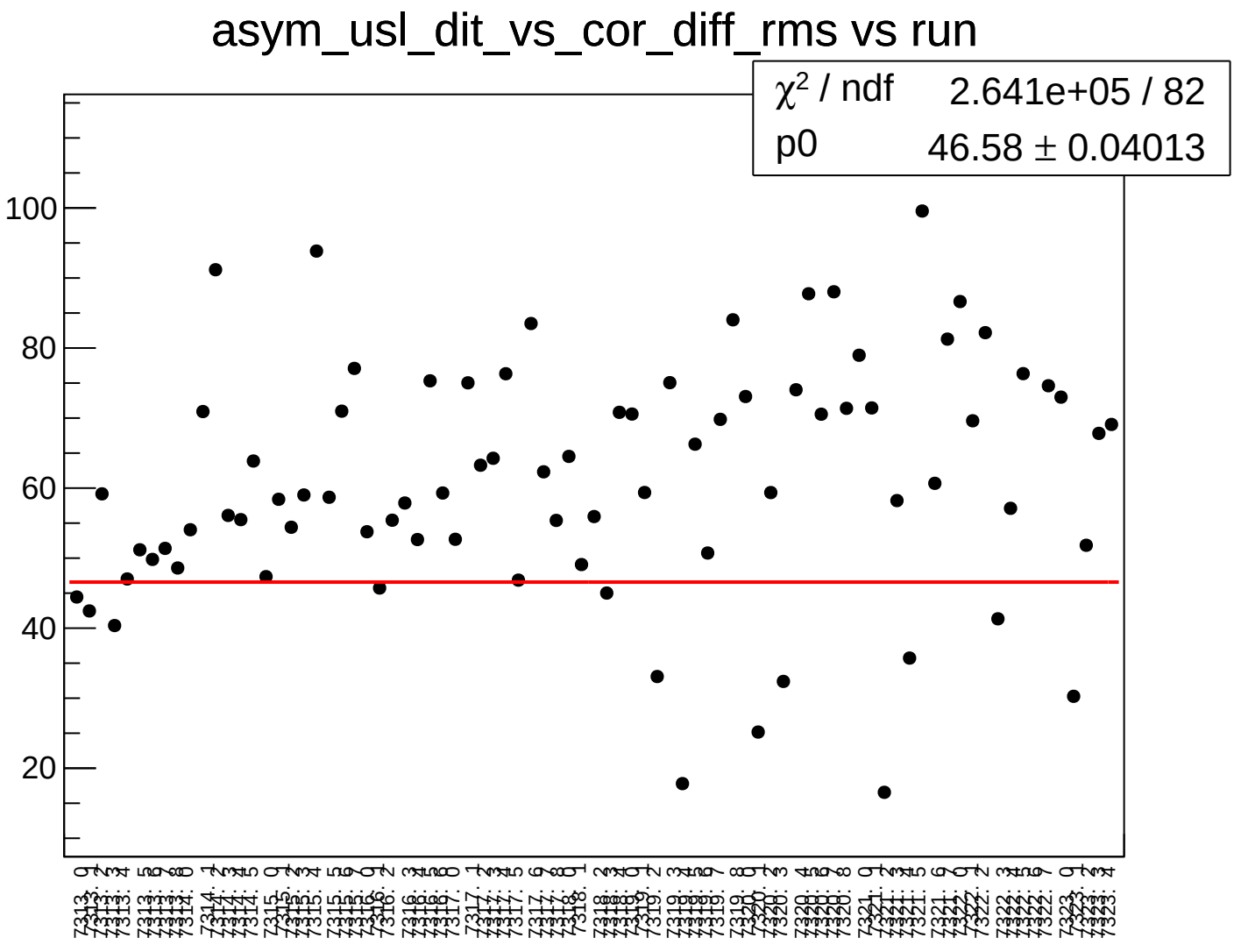

asym_usl_rms vs run
χ² / ndf 8556 / 82
p0 2279 ± 1.8
2800
2600
2400
2200
2000
1800

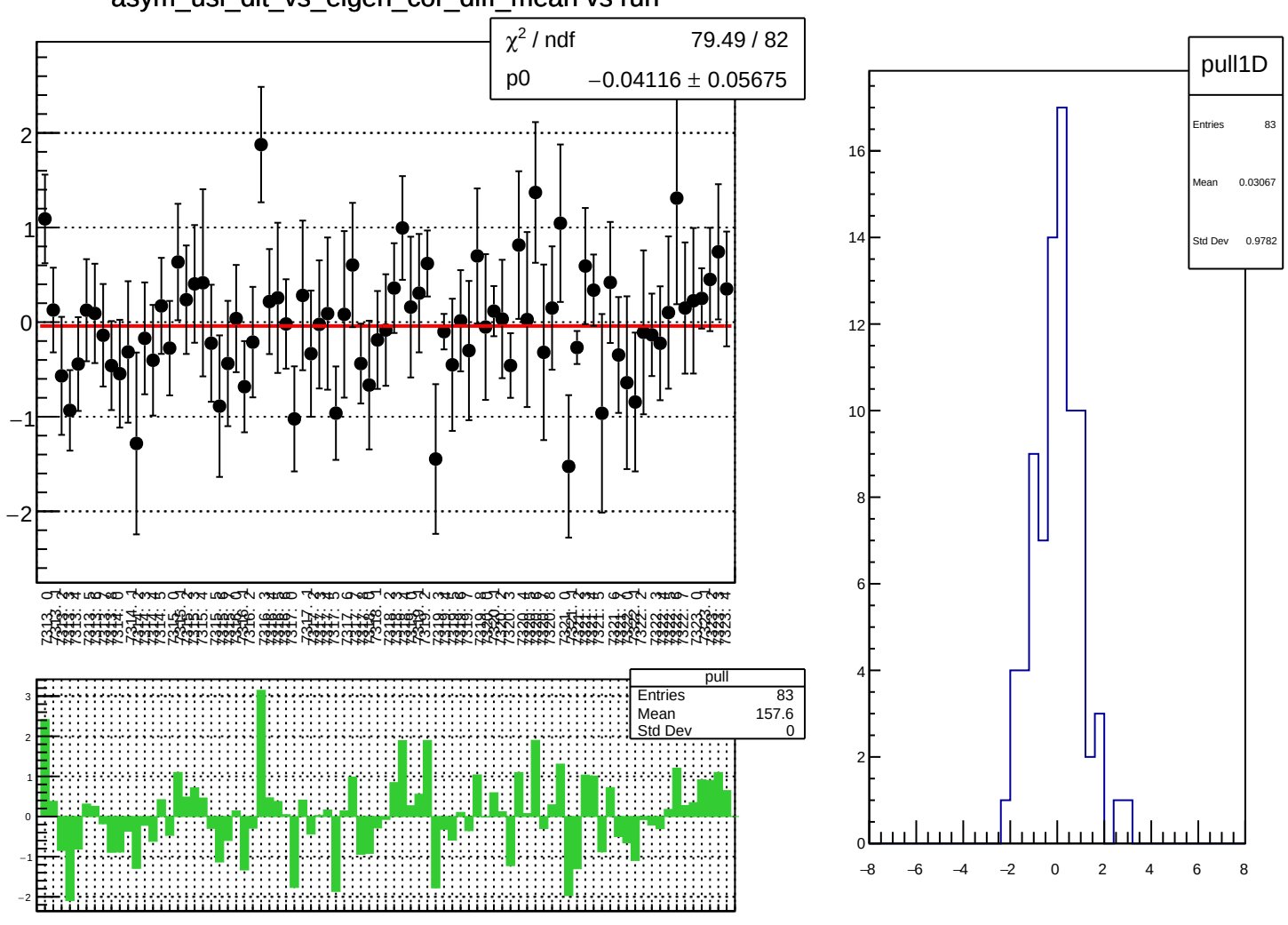

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 82
p0 −3.043e−14 ± 4.424e−14
pull
Entries 83
Mean 130.9
Std Dev 0

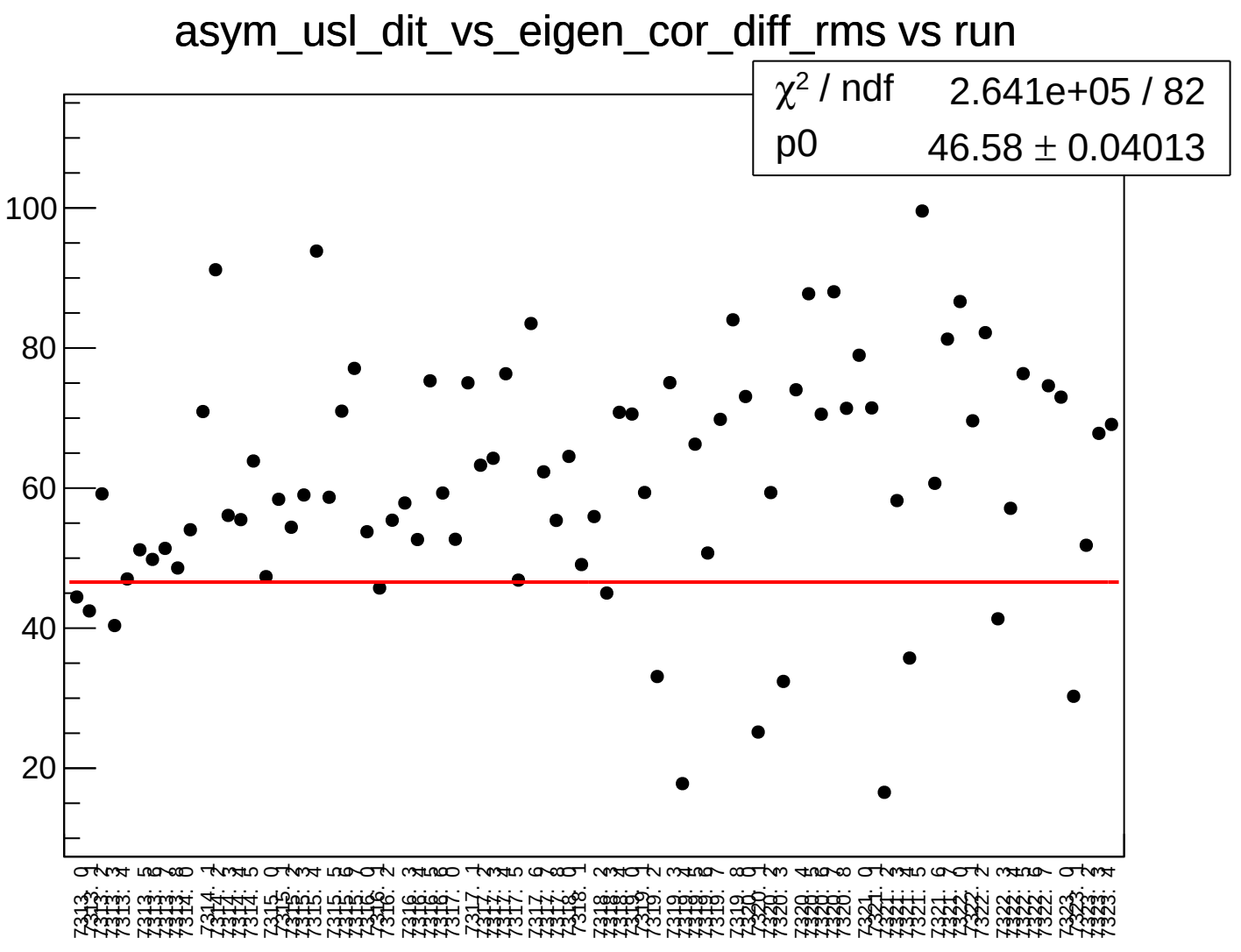

pull1D
Entries 83
Mean 0.08835
Std Dev 1.112

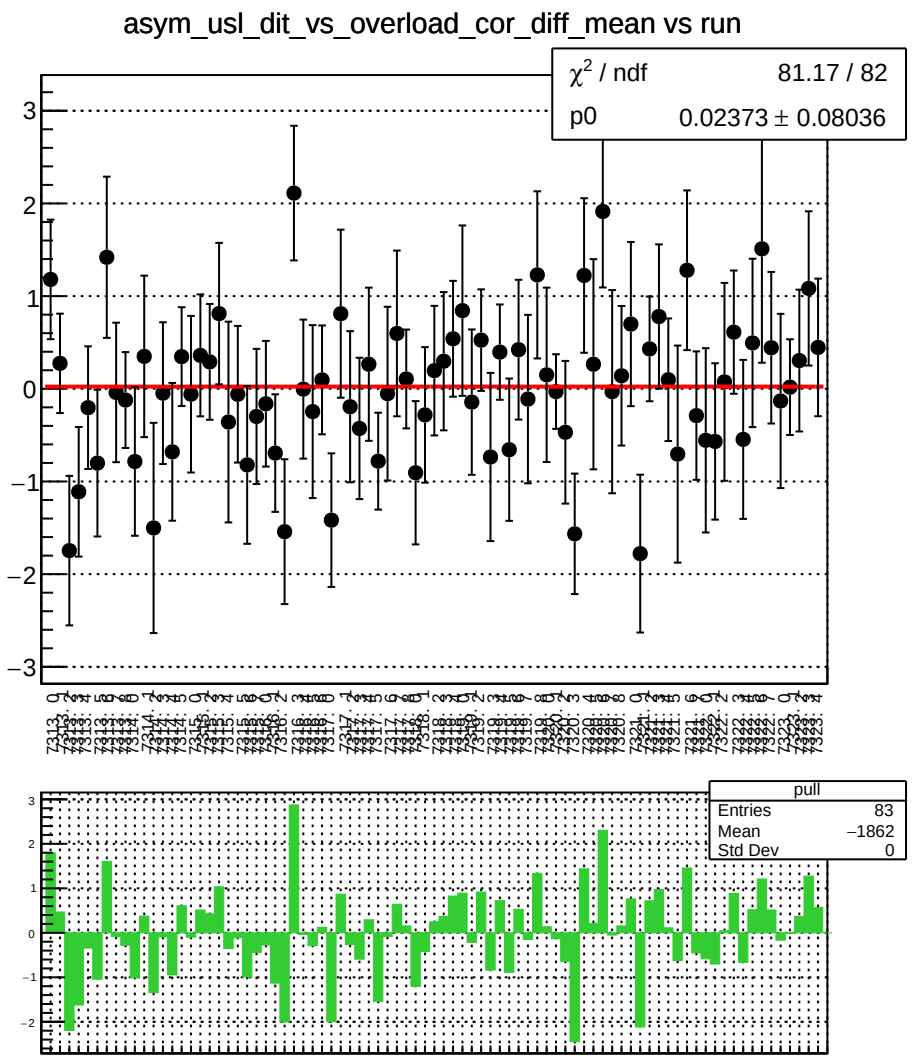

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.902e+05 / 82
p0 3.161e−11 ± 3.128e−14
0.3
0.25
0.2
0.15
0.1
0.05

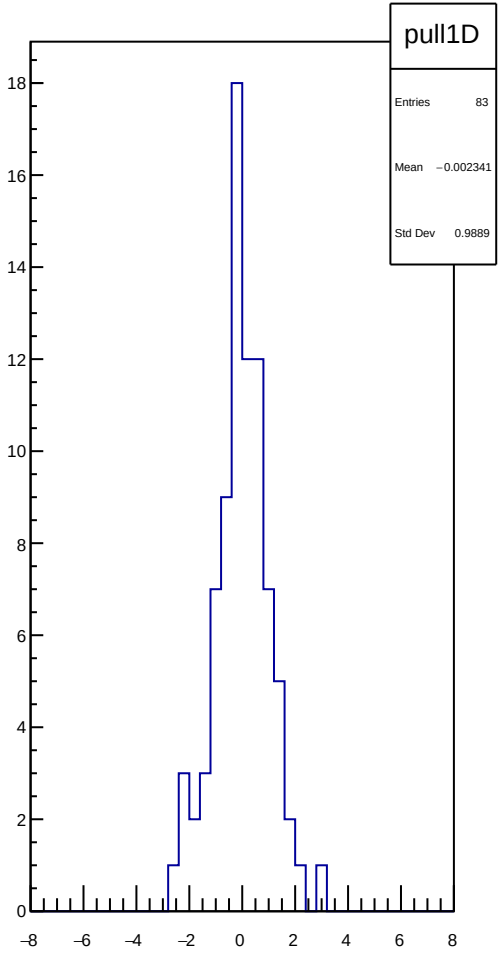

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 79.49 / 82
p0 −0.04116 ± 0.05675
pull
Entries 83
Mean 157.6
Std Dev 0
pull1D
Entries 83
Mean 0.03067
Std Dev 0.9782

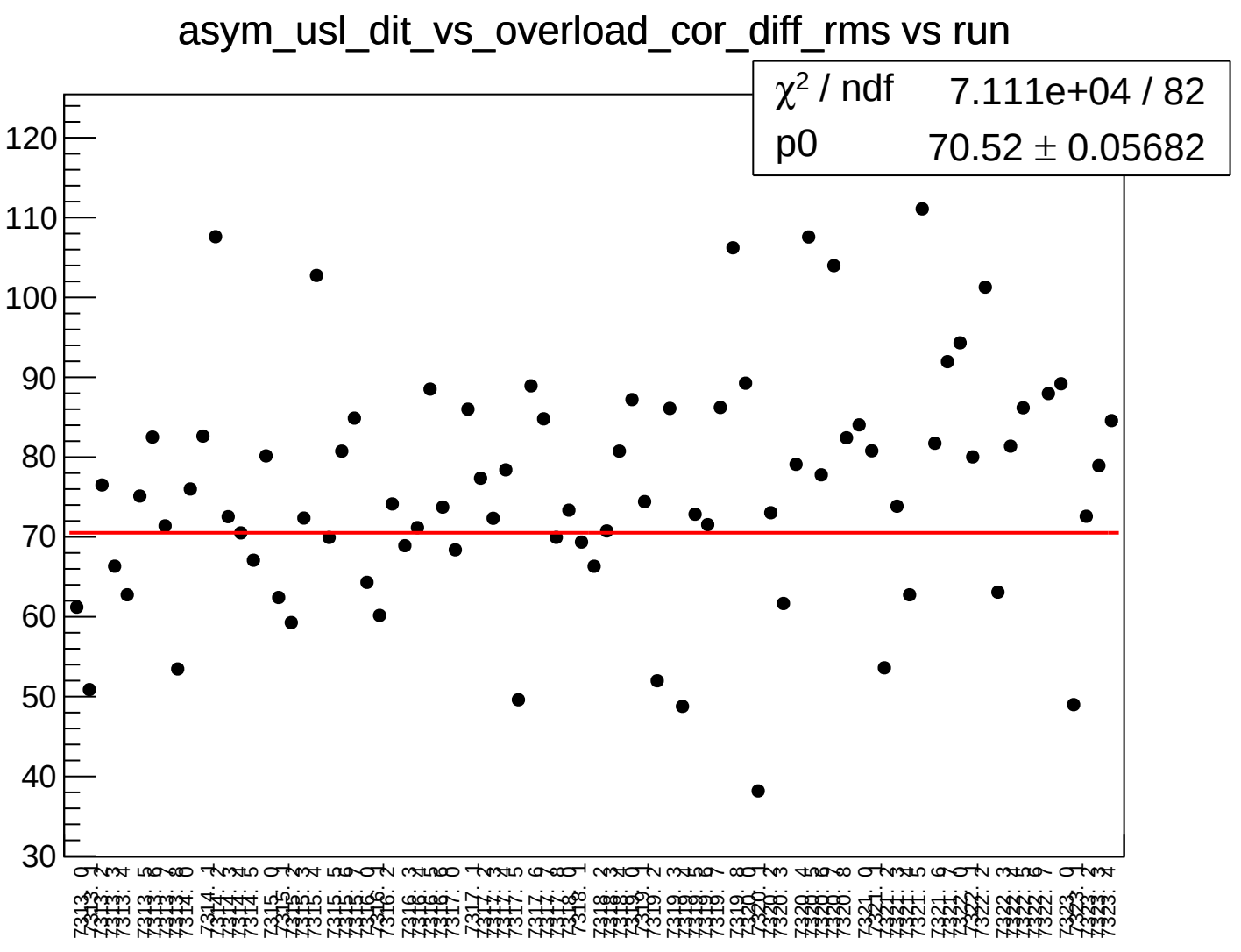

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+05 / 82
p0 46.58 ± 0.04013
100
80
60
40
20

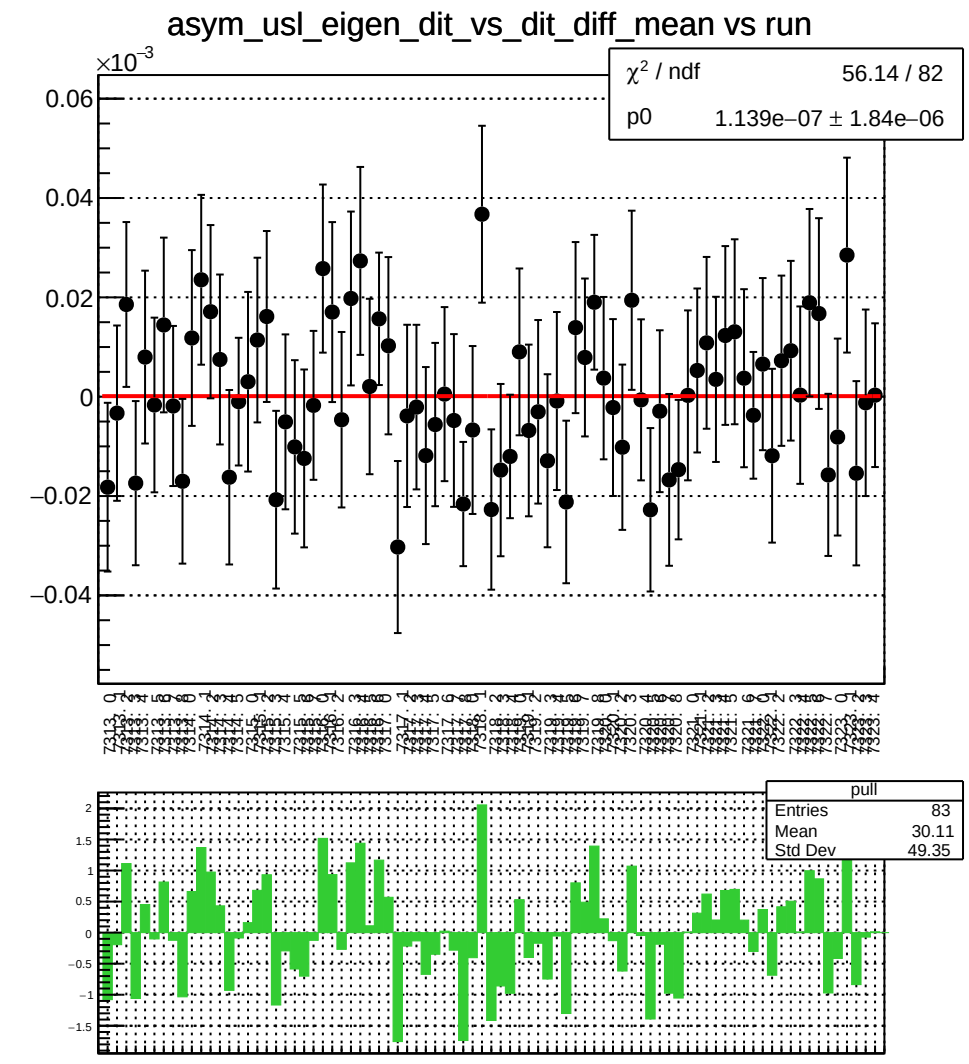

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.49 / 82
p0 −0.04116 ± 0.05675
pull
Entries 83
Mean 157.6
Std Dev 0
pull1D
Entries 83
Mean 0.03067
Std Dev 0.9782

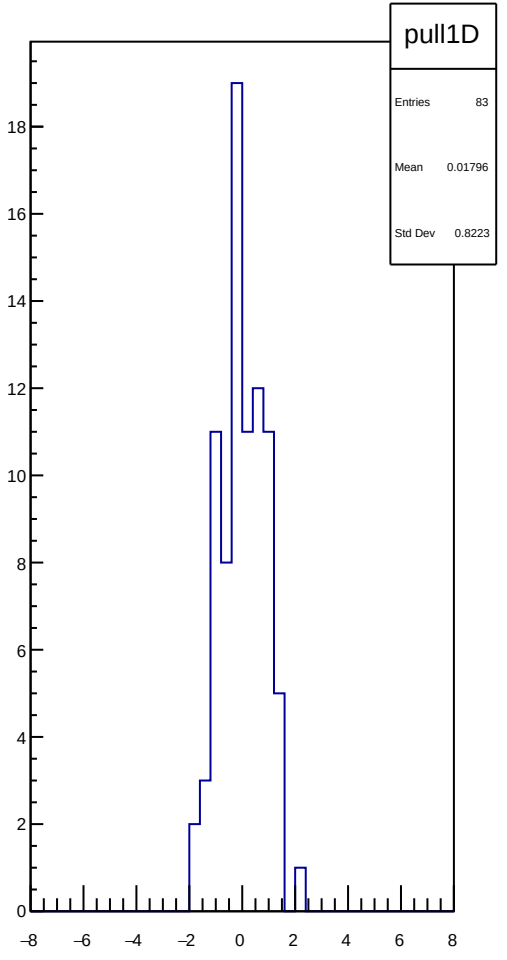

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+05 / 82
p0 46.58 ± 0.04013
100
80
60
40
20

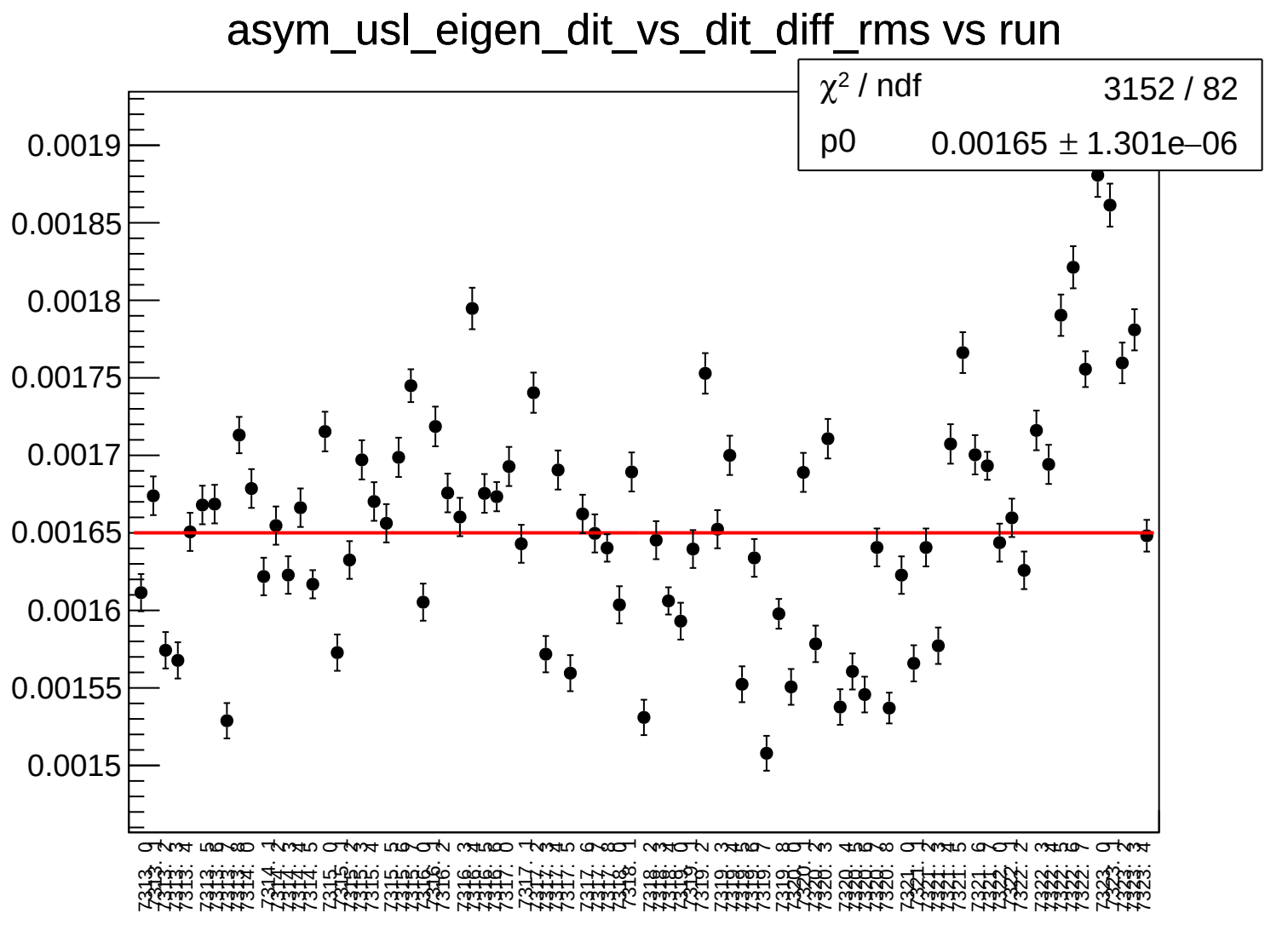

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 81.17 / 82
p0 0.02373 ± 0.08036
pull
Entries 83
Mean −1862
Std Dev 0

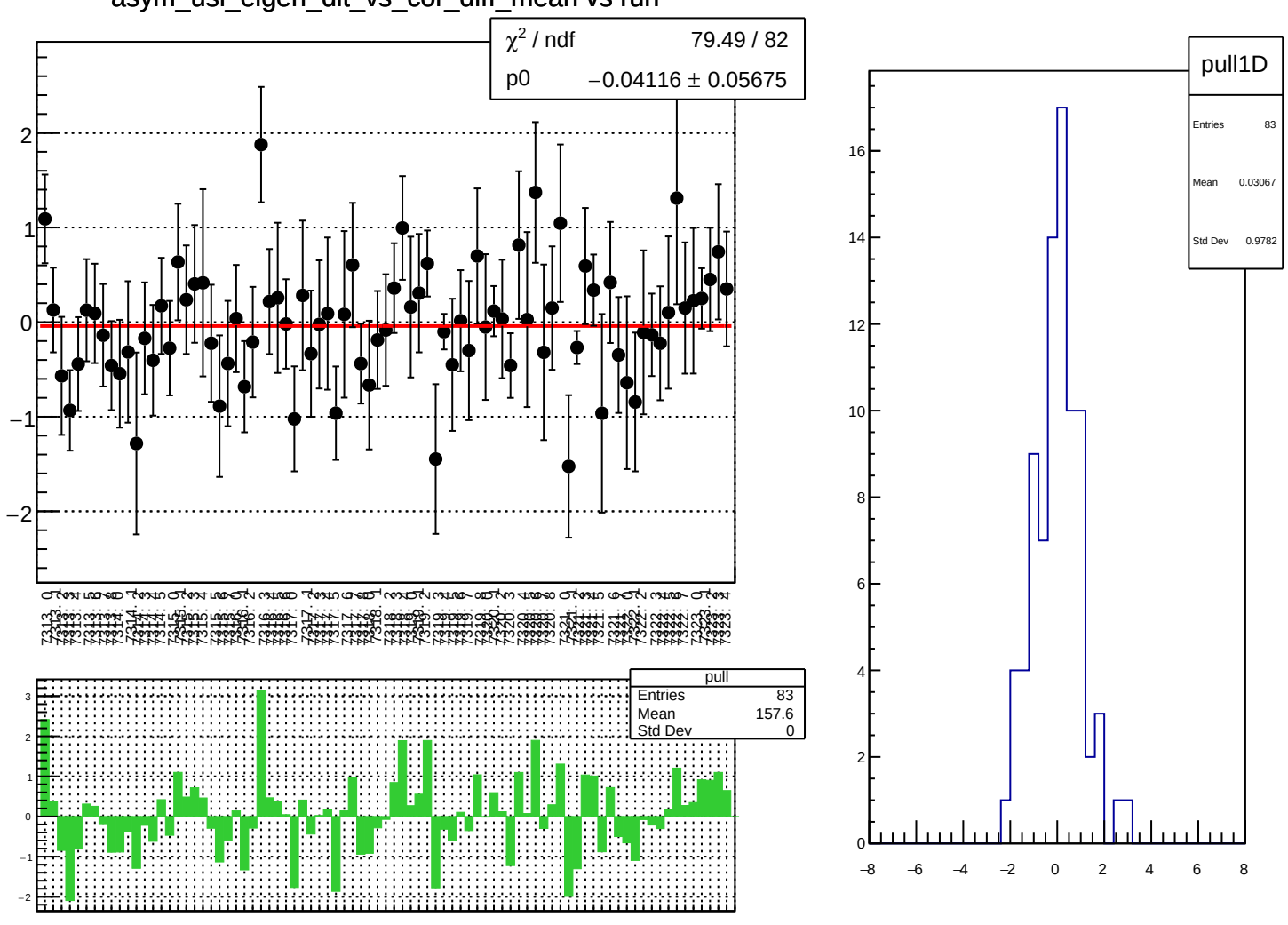

pull1D
Entries 83
Mean −0.002341
Std Dev 0.9889

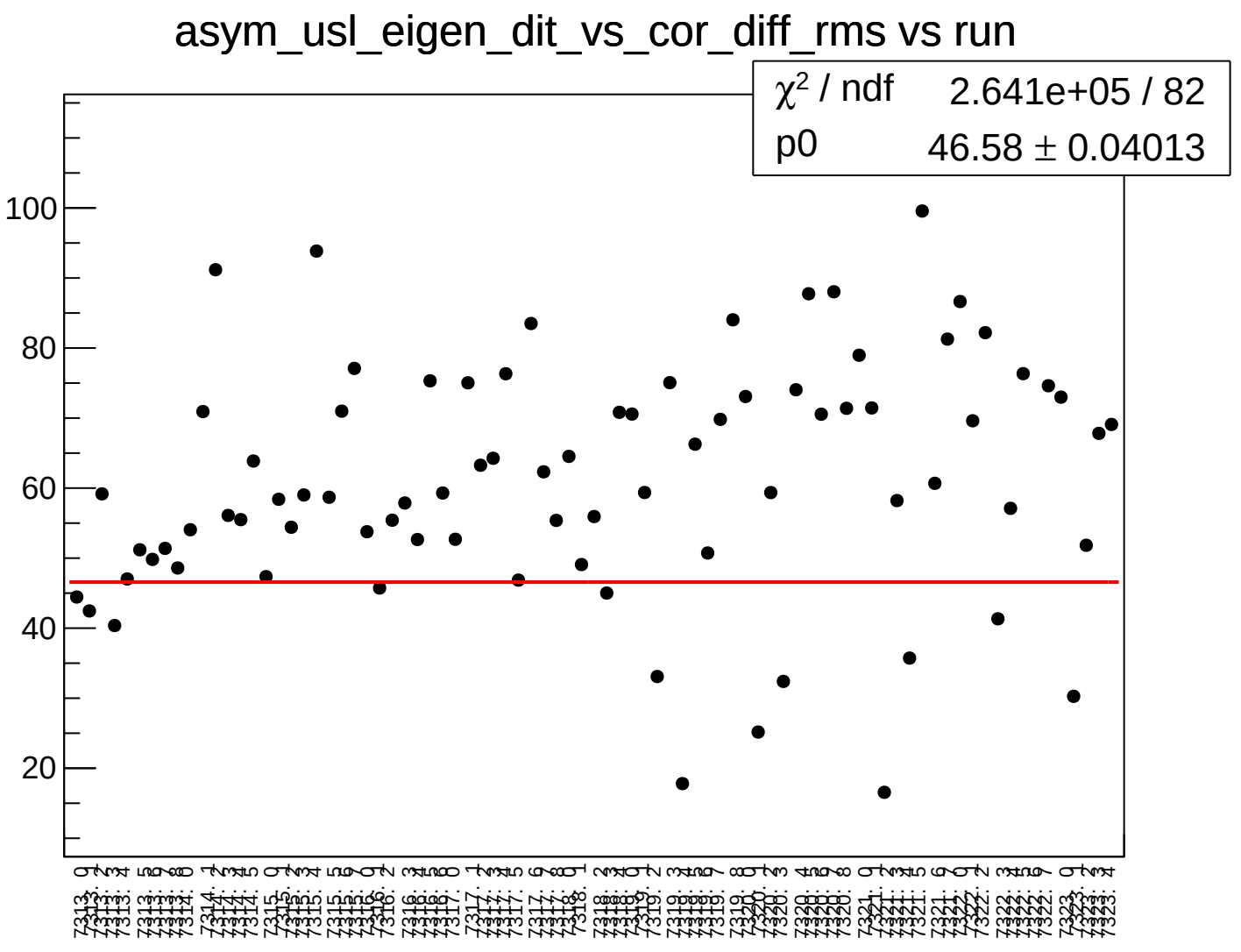

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.111e+04 / 82
p0 70.52 ± 0.05682
120
110
100
90
80
70
60
50
40
30

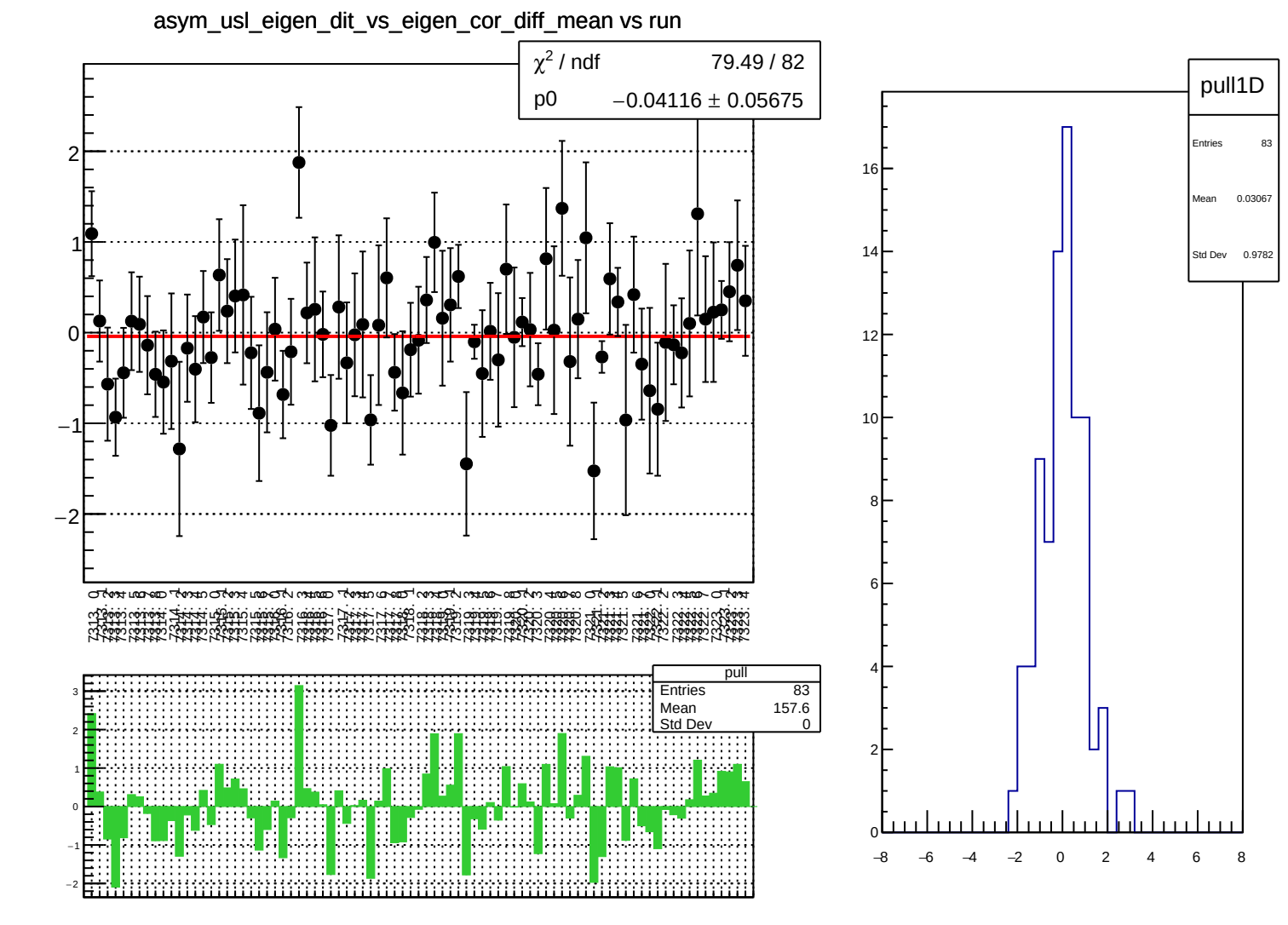

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.14 / 82
p0 1.139e−07 ± 1.84e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 83
Mean 30.11
Std Dev 49.35
2
1.5
1
0.5
0
−0.5
−1
−1.5

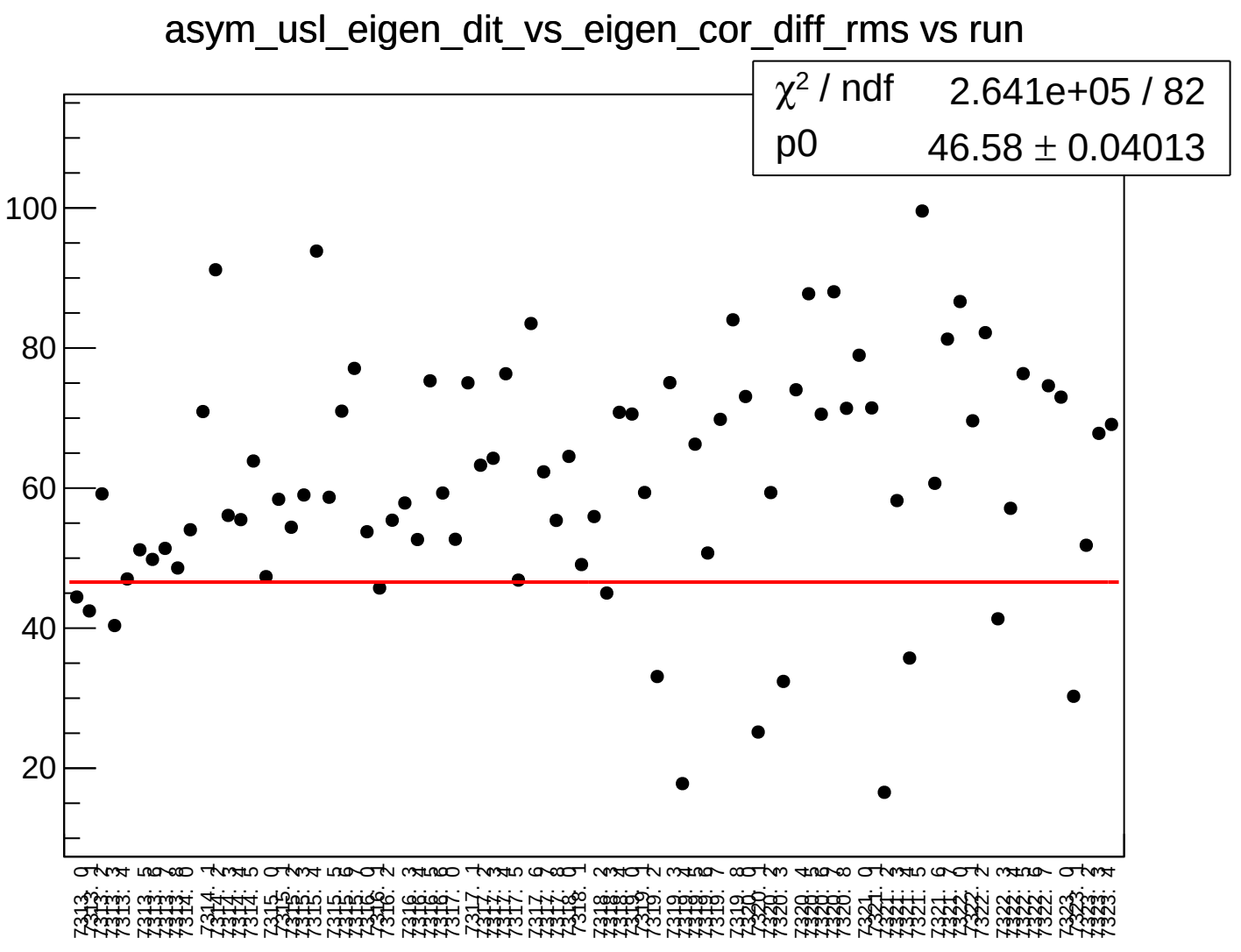

pull1D
Entries 83
Mean 0.01796
Std Dev 0.8223
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

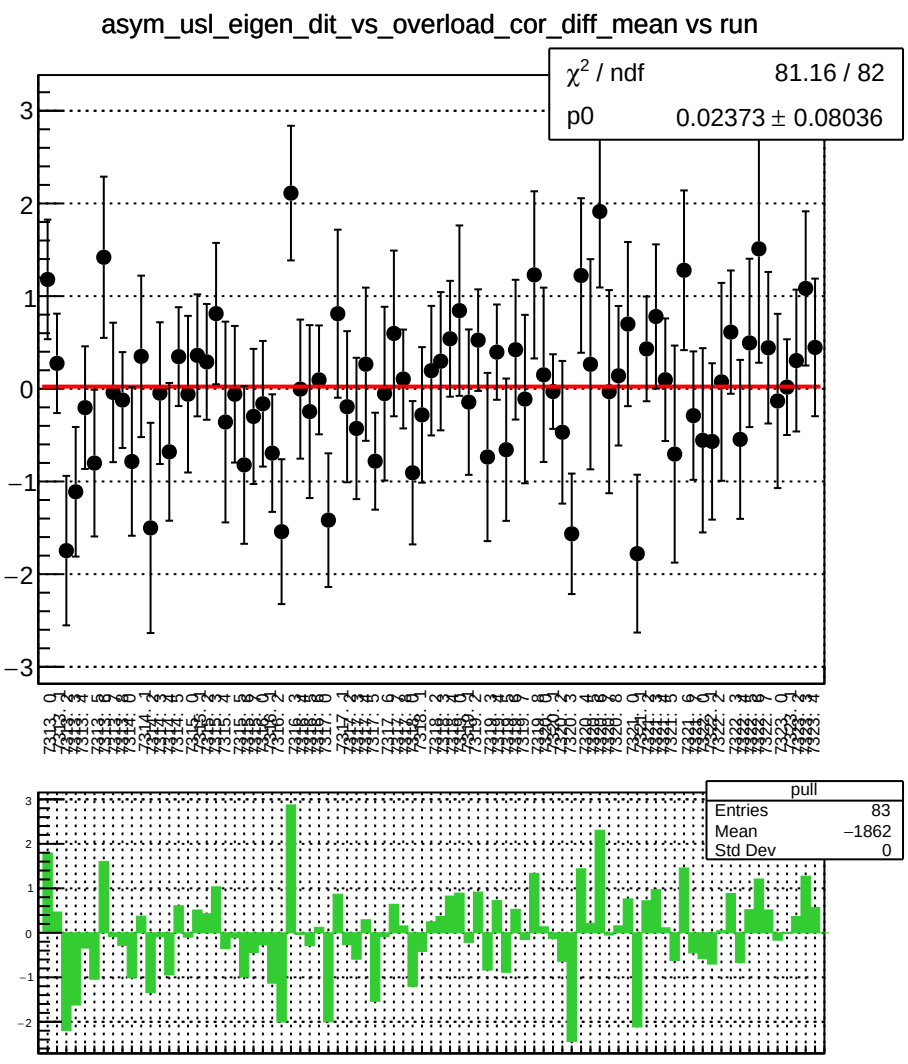

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3152 / 82
p0 0.00165 ± 1.301e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

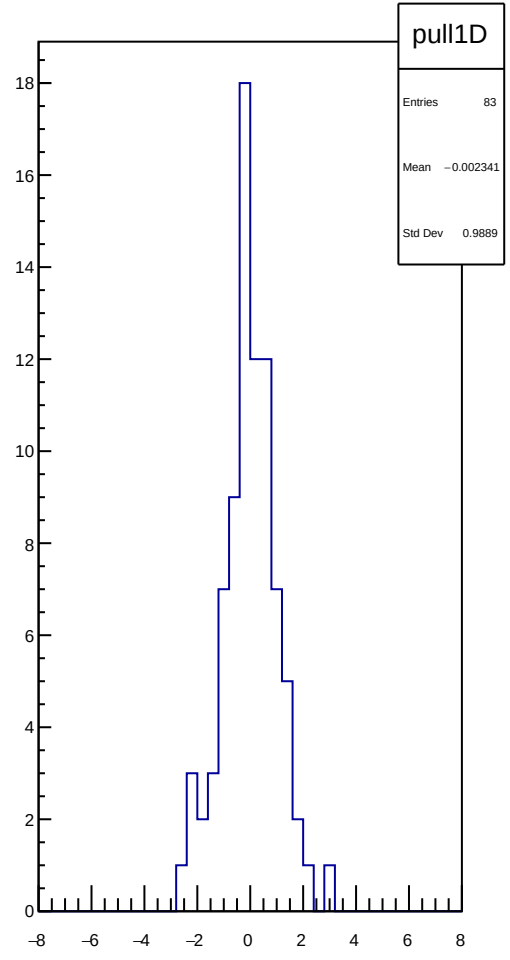

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.49 / 82
p0 −0.04116 ± 0.05675
pull
Entries 83
Mean 157.6
Std Dev 0
pull1D
Entries 83
Mean 0.03067
Std Dev 0.9782

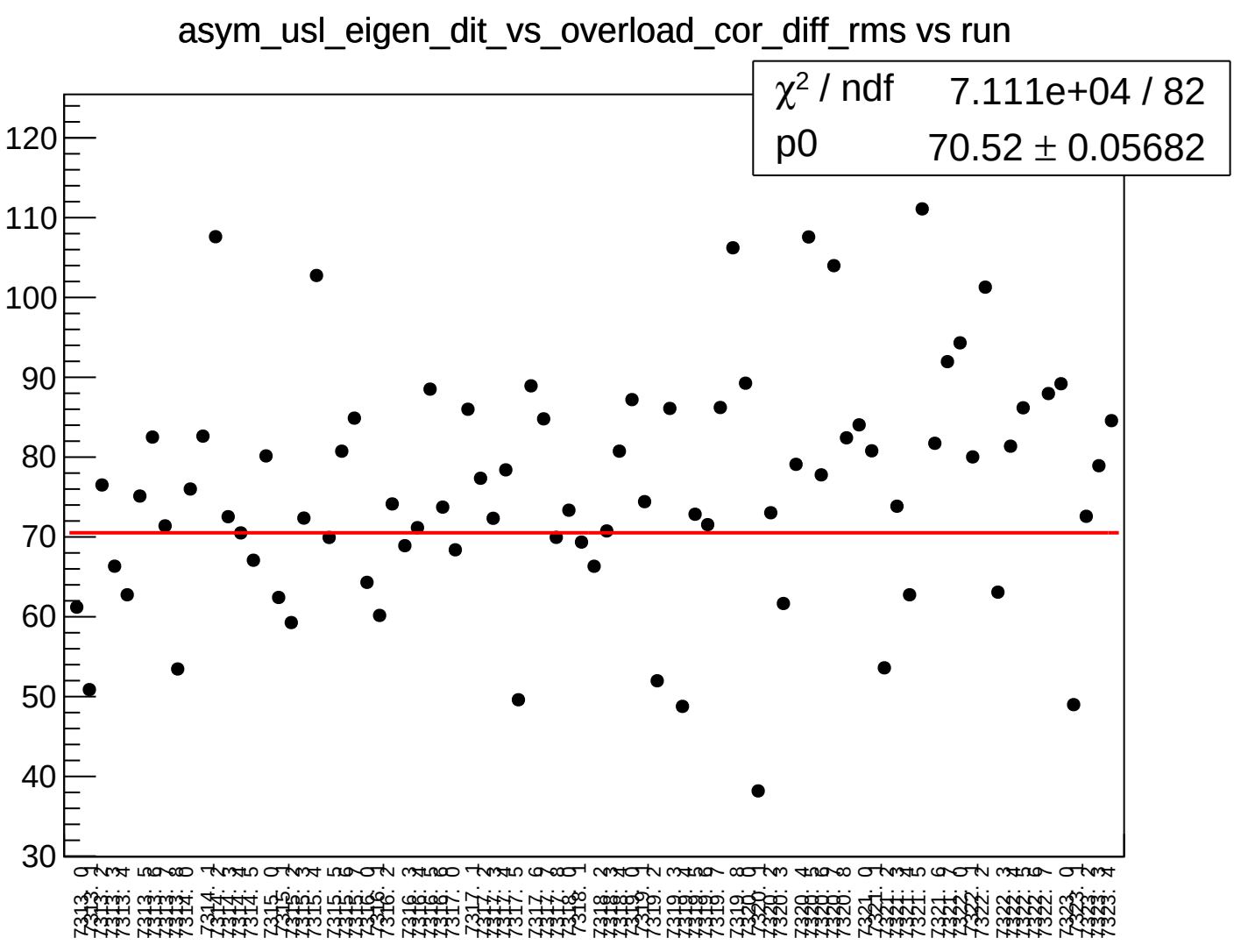

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+05 / 82
p0 46.58 ± 0.04013
100
80
60
40
20

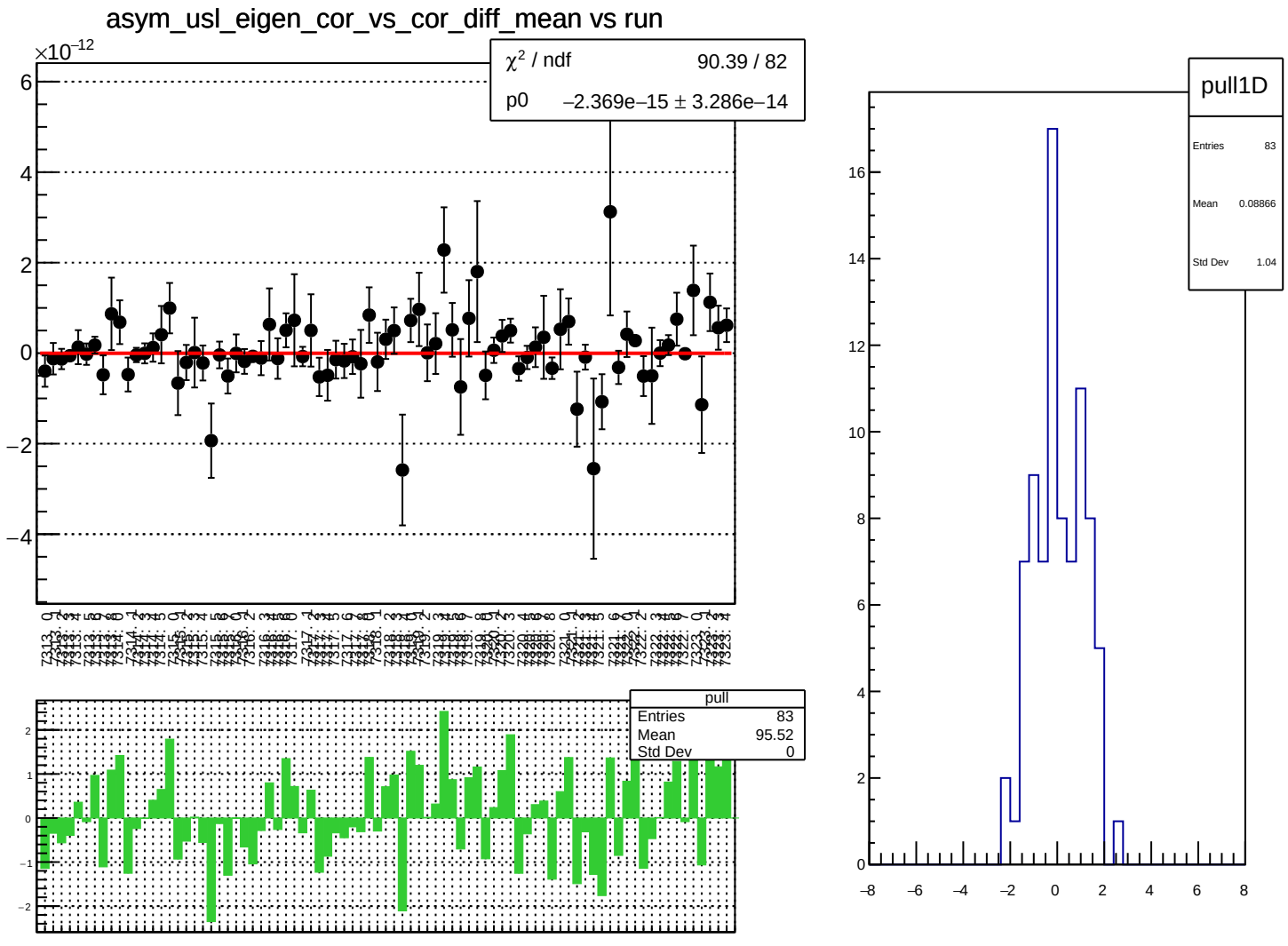

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.49 / 82
p0 −0.04116 ± 0.05675
pull
Entries 83
Mean 157.6
Std Dev 0
pull1D
Entries 83
Mean 0.03067
Std Dev 0.9782

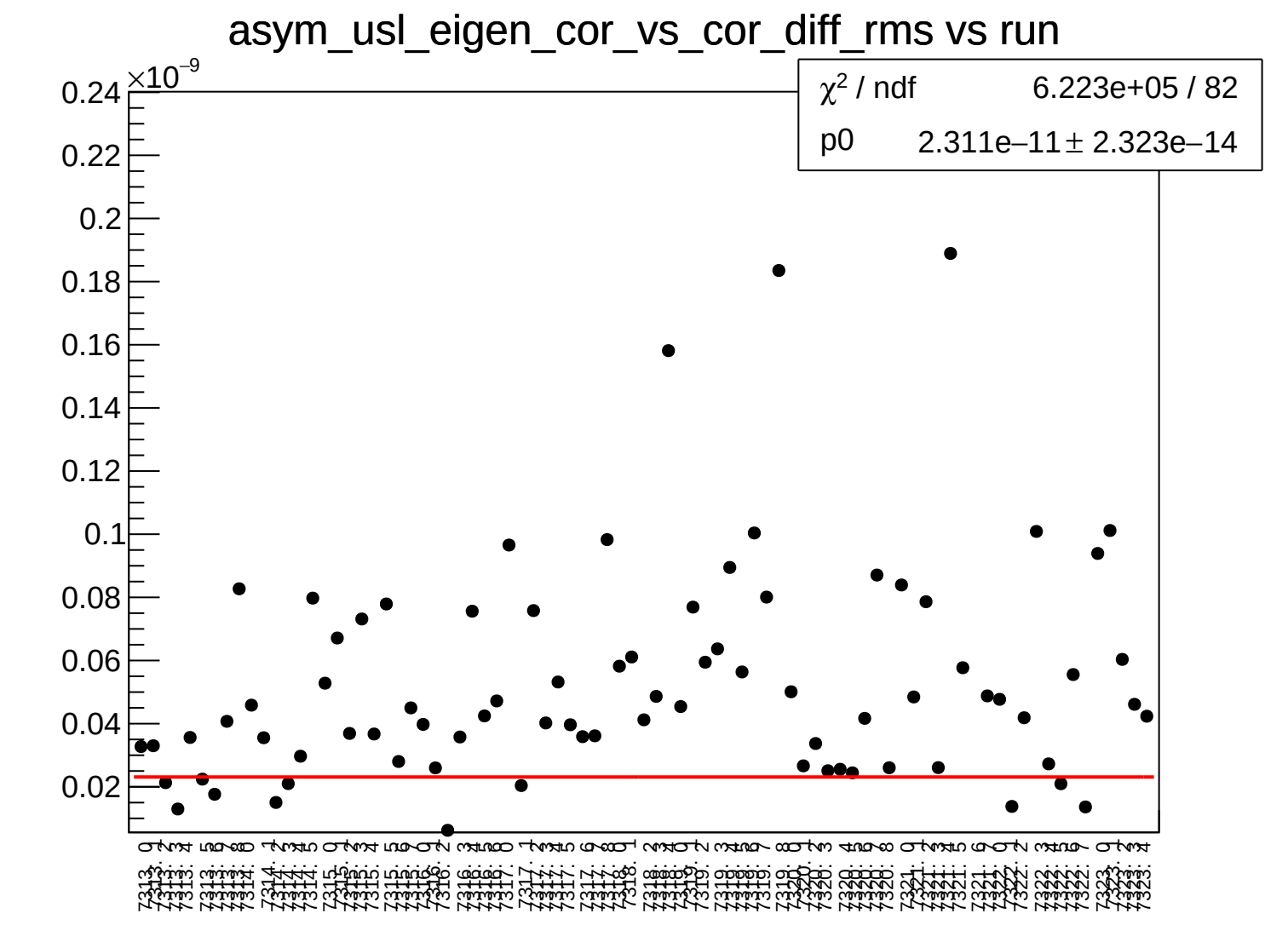

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+05 / 82
p0 46.58 ± 0.04013
100
80
60
40
20

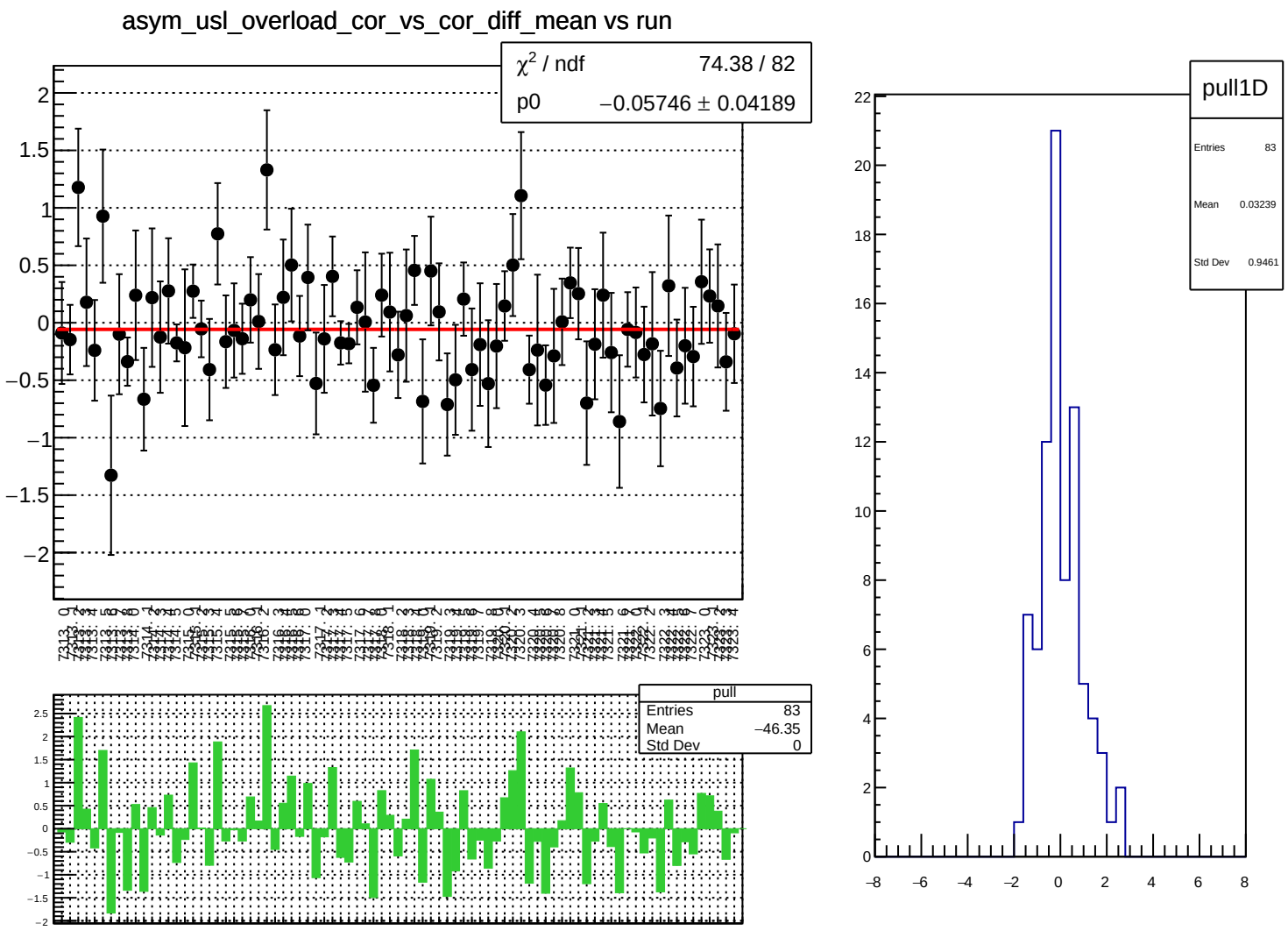

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 81.16 / 82
p0 0.02373 ± 0.08036
pull
Entries 83
Mean −1862
Std Dev 0

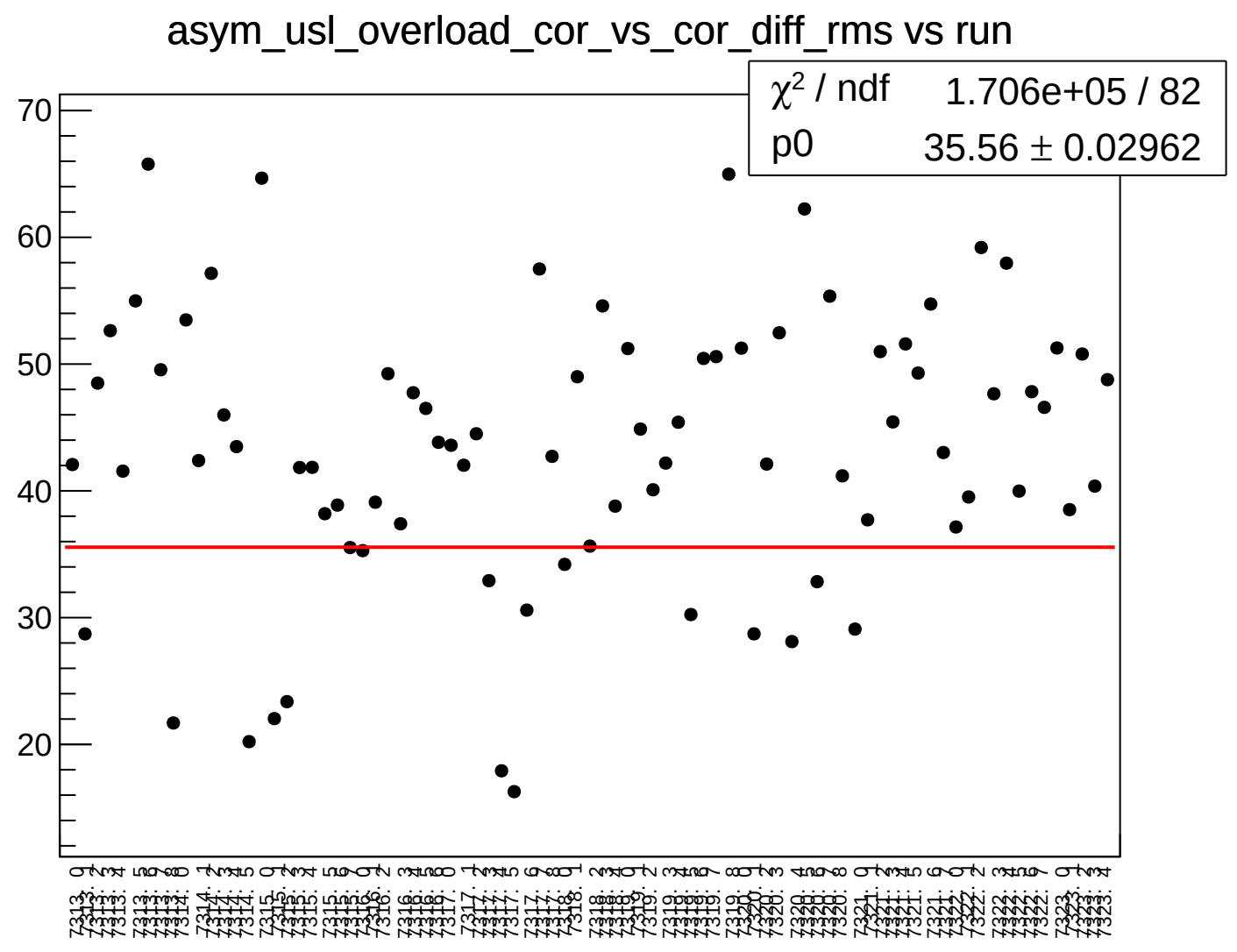

pull1D
Entries 83
Mean −0.002341
Std Dev 0.9889

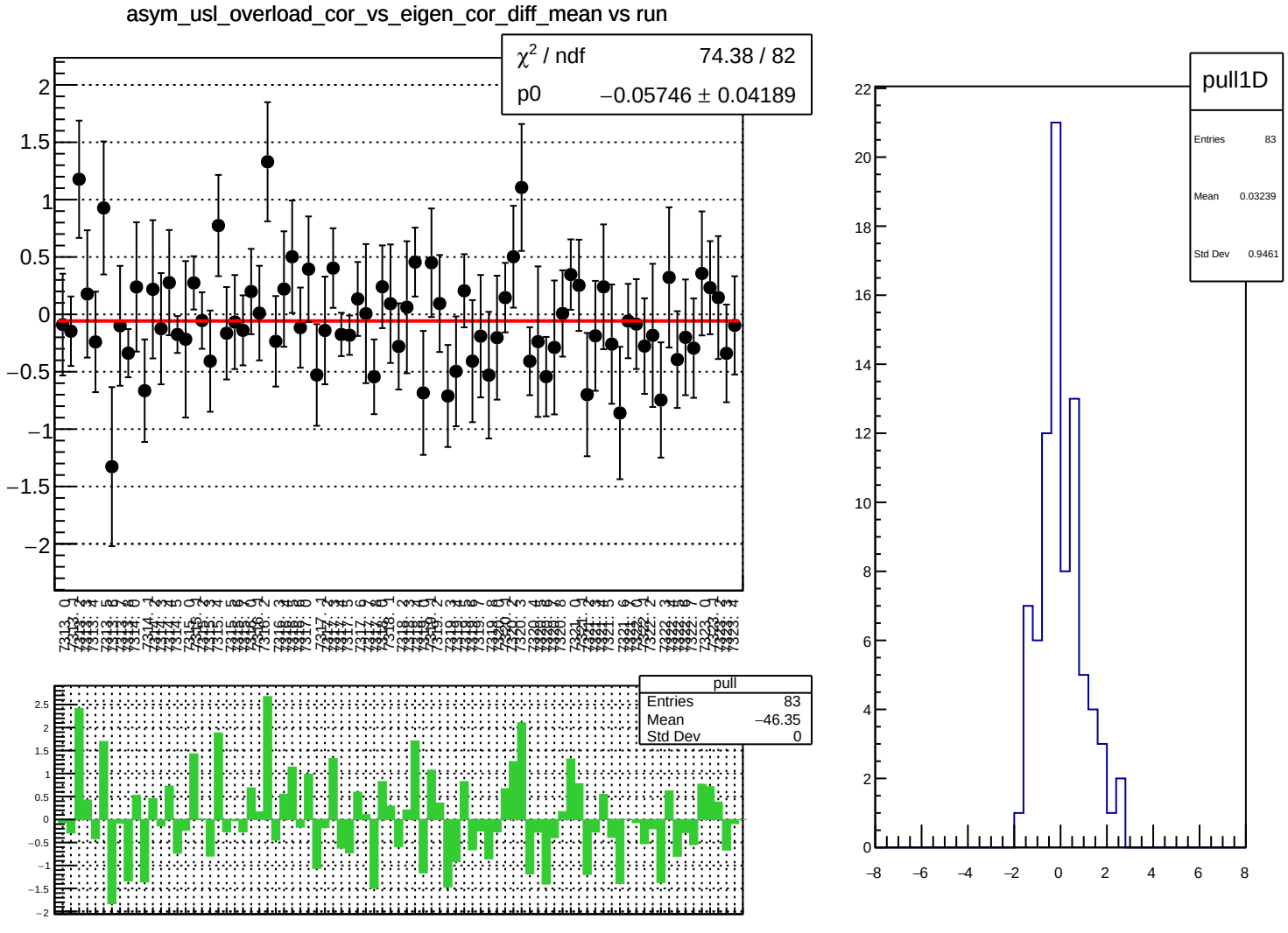

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.111e+04 / 82
p0 70.52 ± 0.05682
120
110
100
90
80
70
60
50
40
30

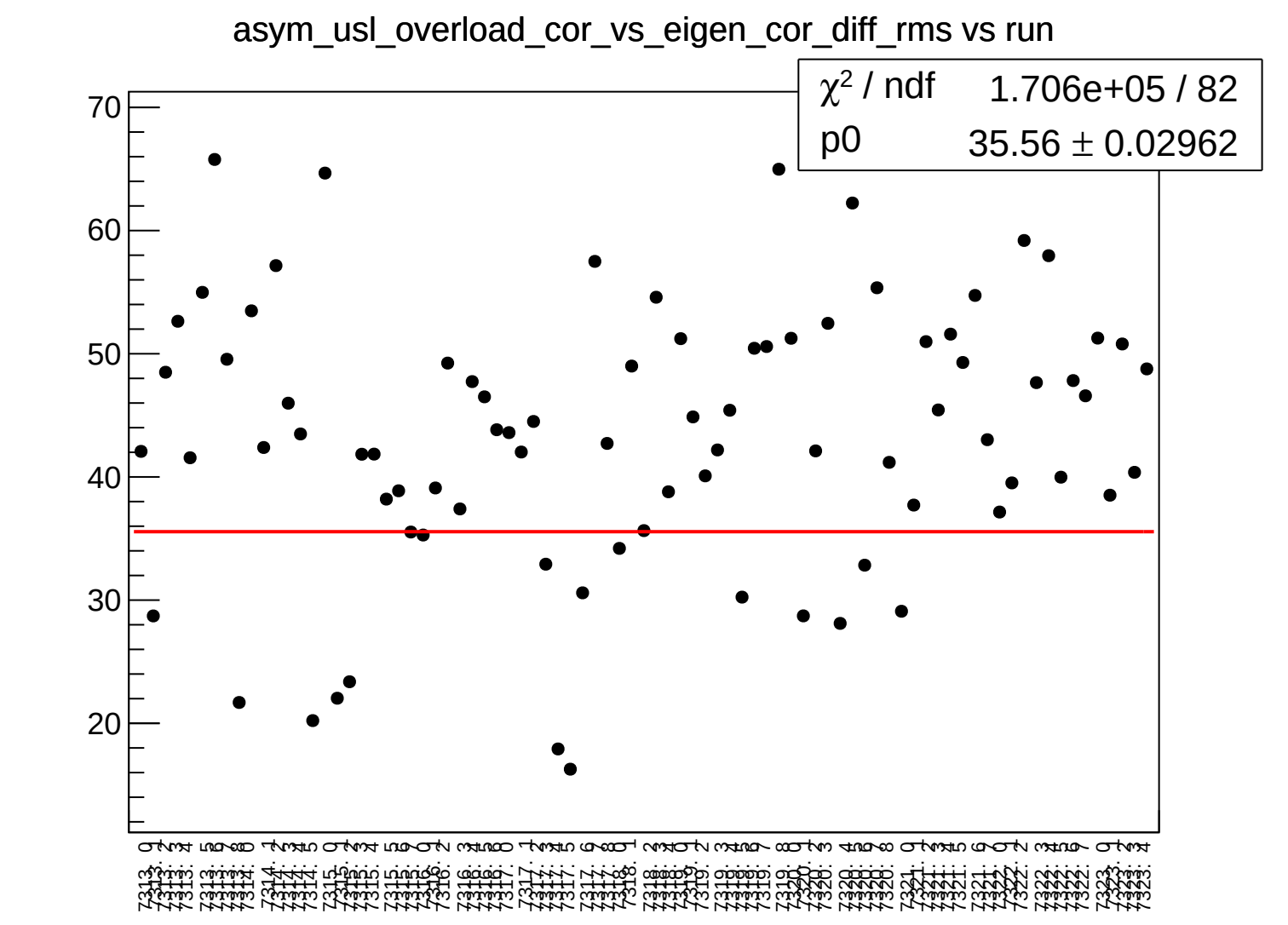

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.39 / 82
p0 −2.369e−15 ± 3.286e−14
pull
Entries 83
Mean 95.52
Std Dev 0
pull1D
Entries 83
Mean 0.08866
Std Dev 1.04

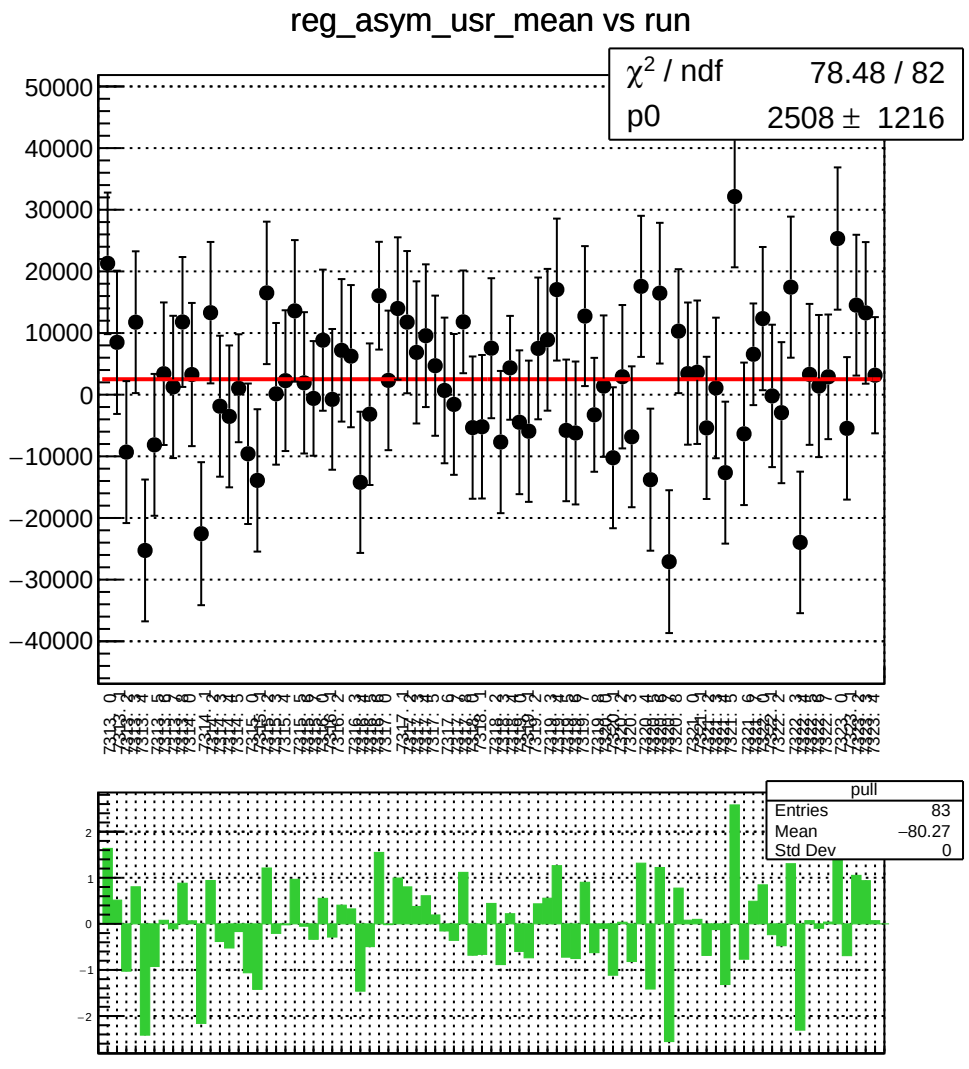

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.223e+05 / 82
p0 2.311e−11 ± 2.323e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

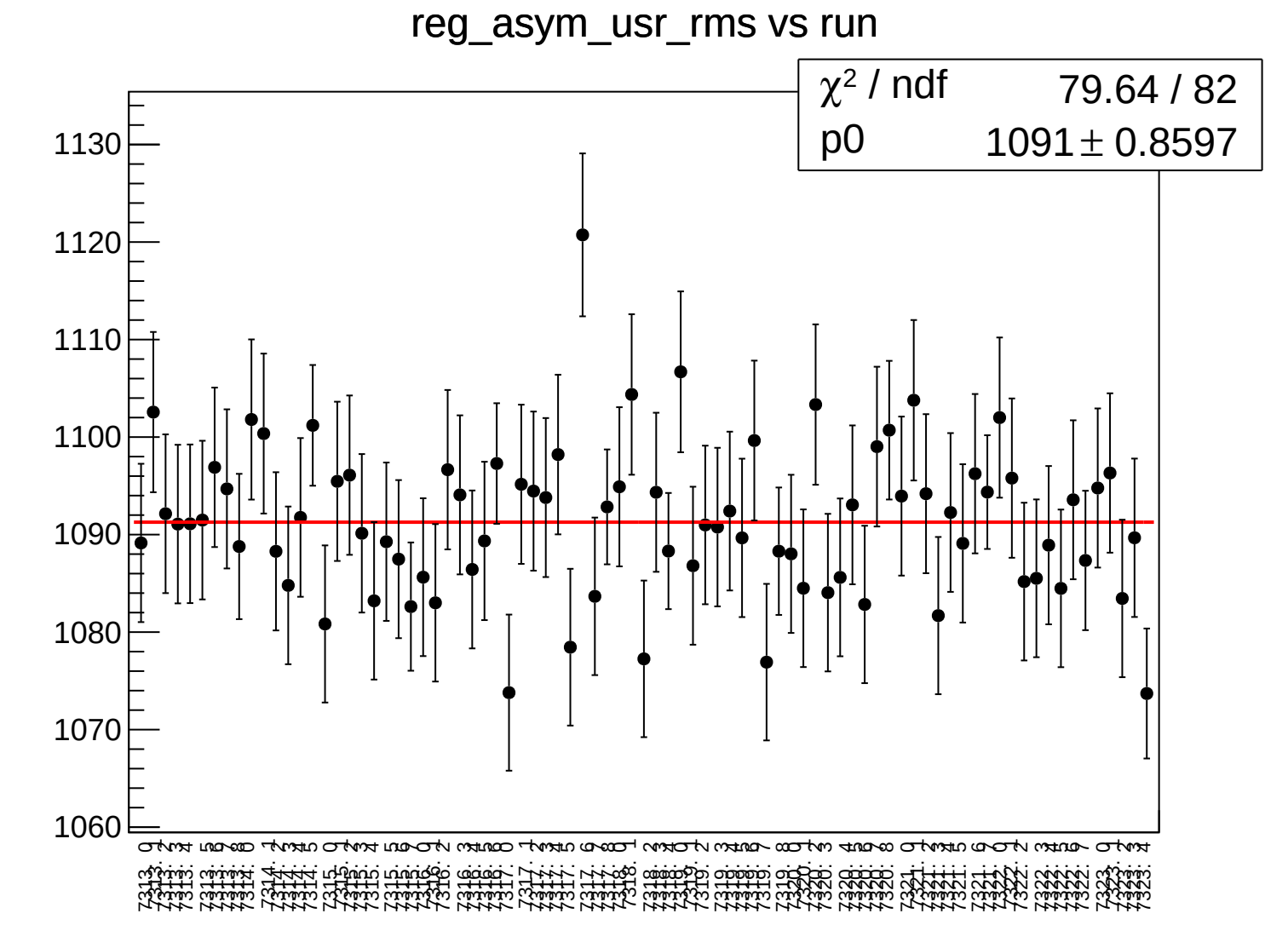

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 82
p0 −0.05746 ± 0.04189
pull
Entries 83
Mean −46.35
Std Dev 0
pull1D
Entries 83
Mean 0.03239
Std Dev 0.9461

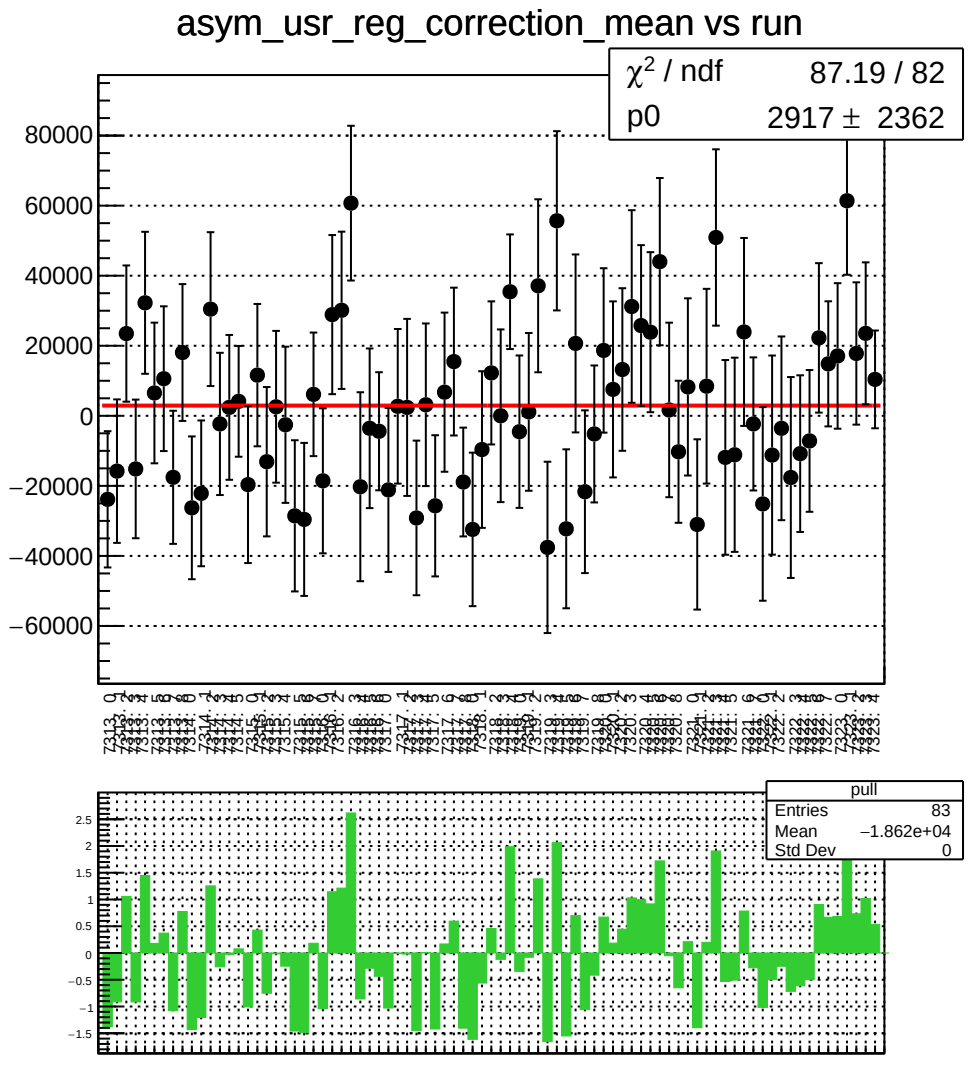

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.706e+05 / 82
p0 35.56 ± 0.02962
70
60
50
40
30
20

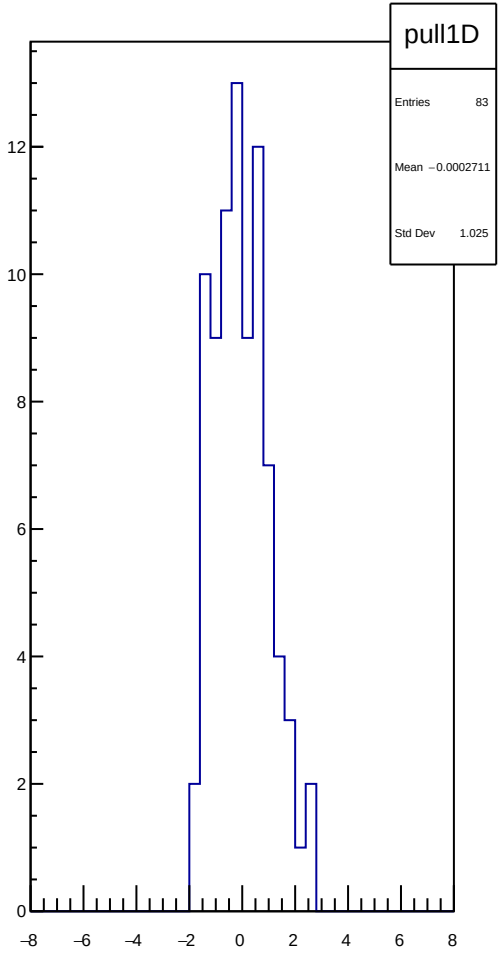

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.38 / 82
p0 −0.05746 ± 0.04189
pull
Entries 83
Mean −46.35
Std Dev 0
pull1D
Entries 83
Mean 0.03239
Std Dev 0.9461

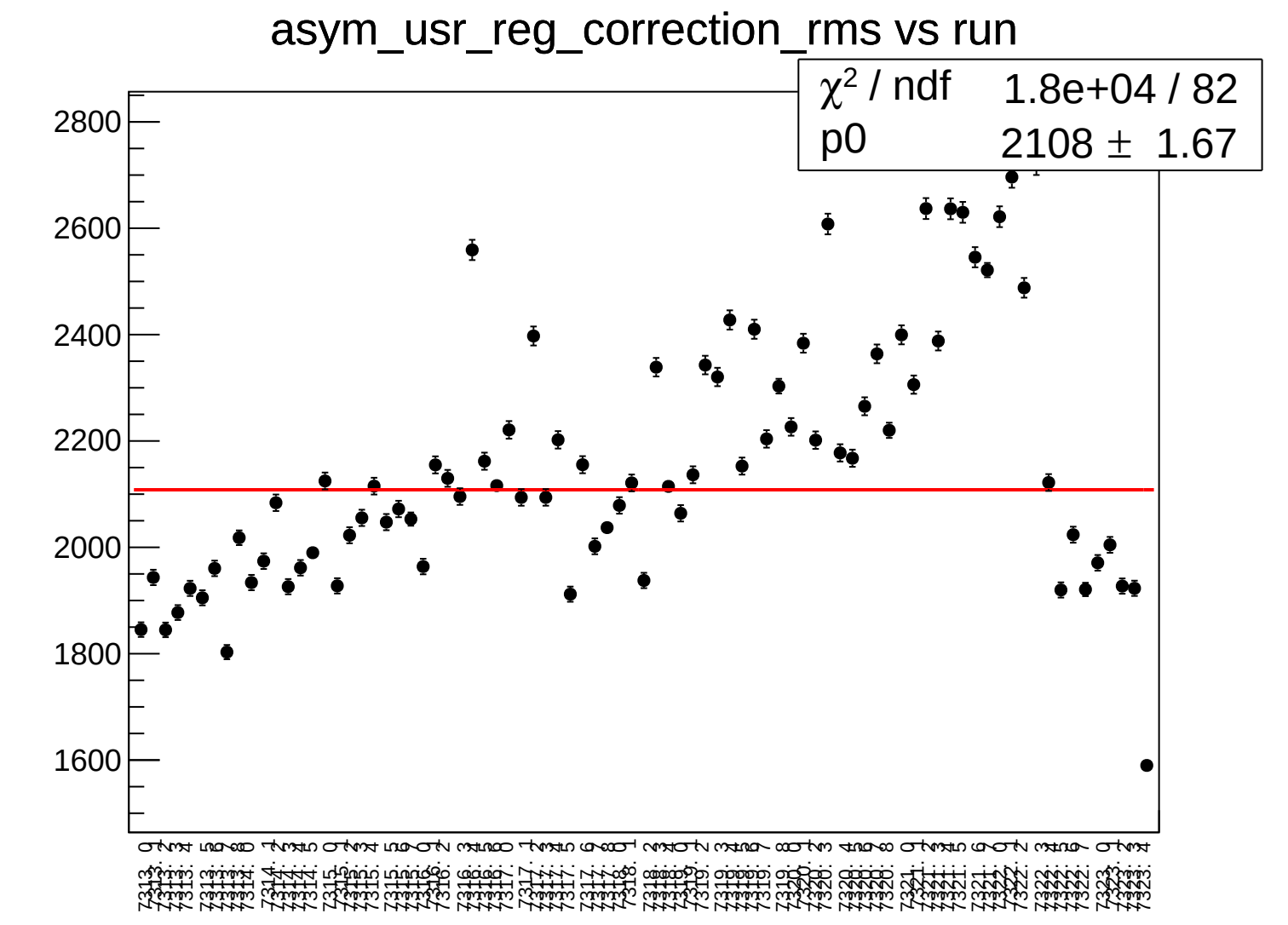

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.706e+05 / 82
p0 35.56 ± 0.02962
70
60
50
40
30
20

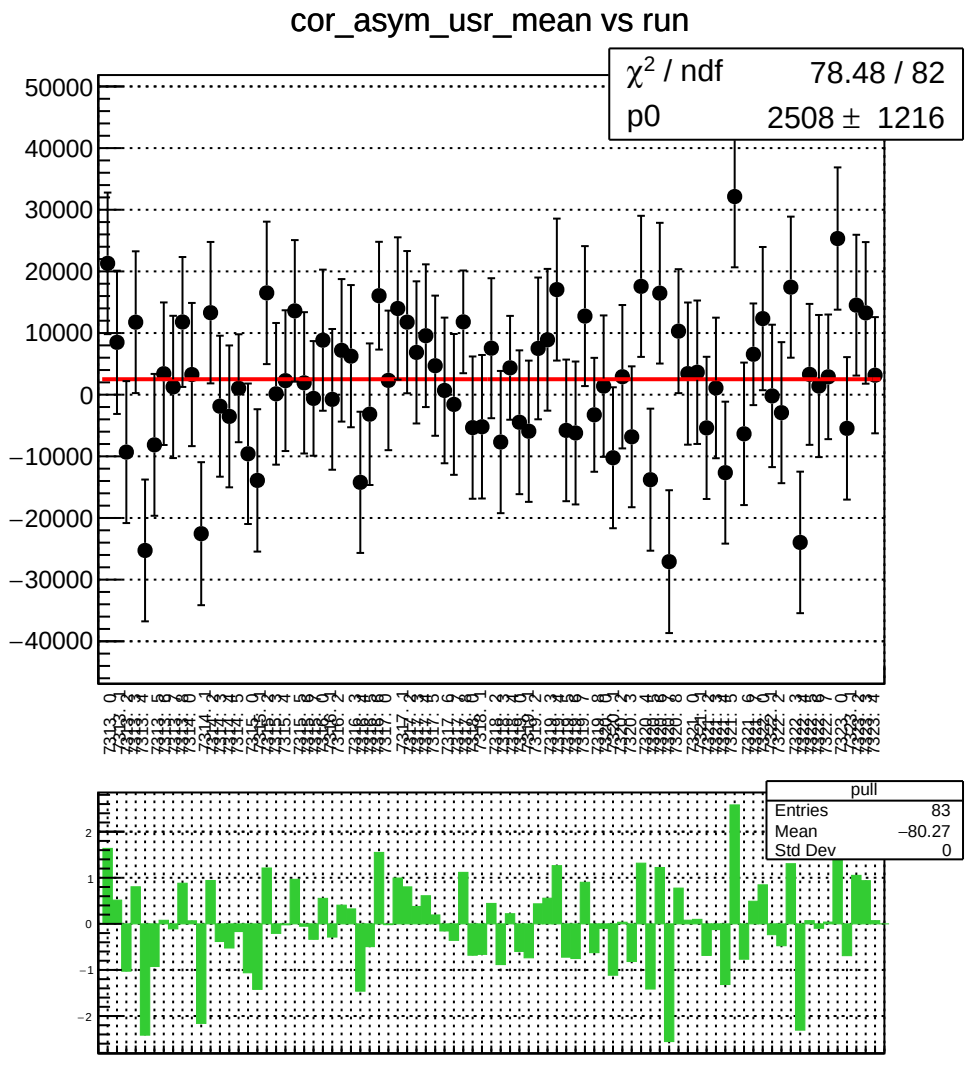

reg_asym_usr_mean vs run
χ² / ndf 78.48 / 82
p0 2508 ± 1216
pull
Entries 83
Mean −80.27
Std Dev 0
pull1D
Entries 83
Mean −0.01421
Std Dev 0.9723

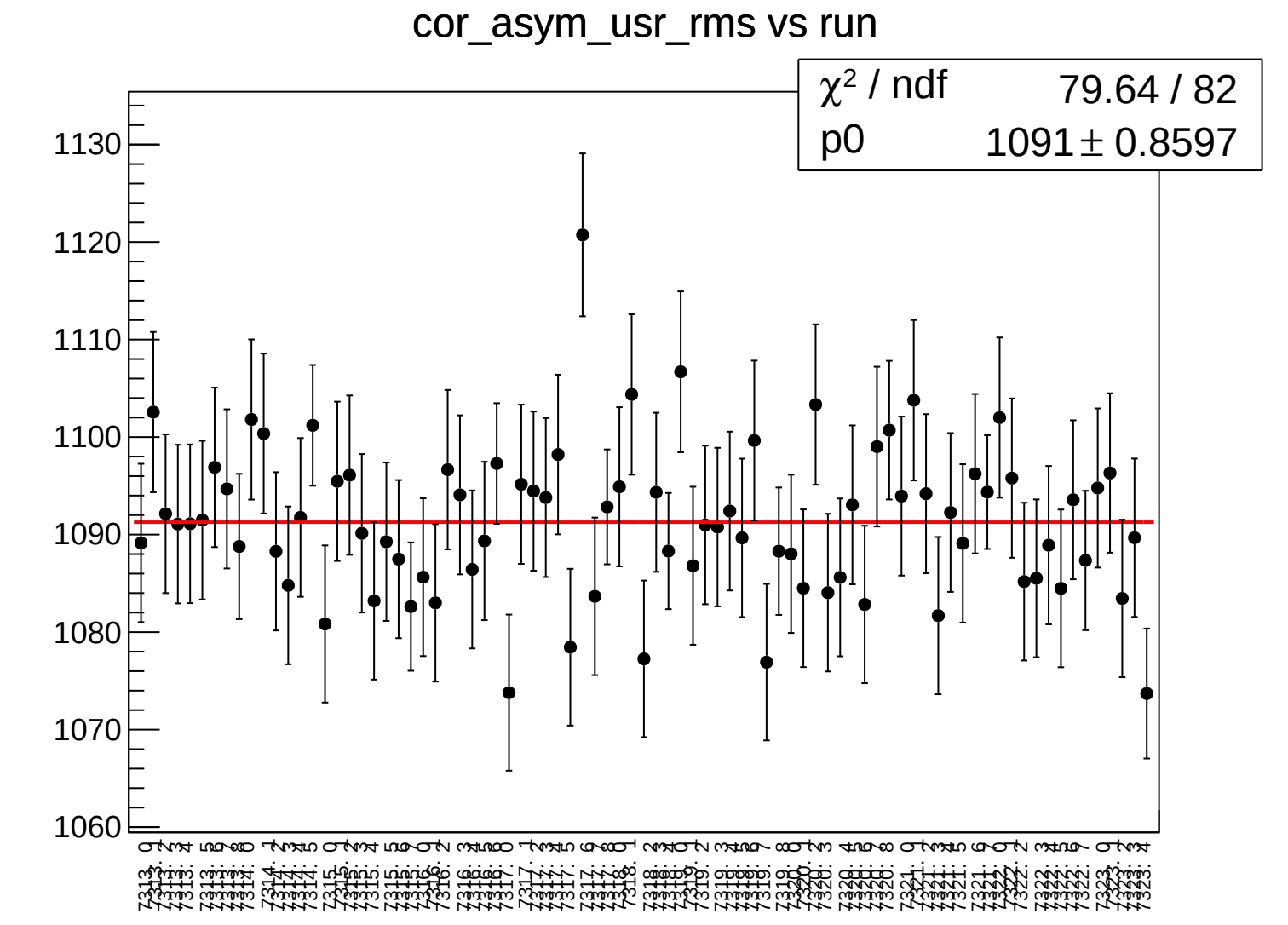

reg_asym_usr_rms vs run
χ² / ndf 79.64 / 82
p0 1091 ± 0.8597
1130
1120
1110
1100
1090
1080
1070
1060

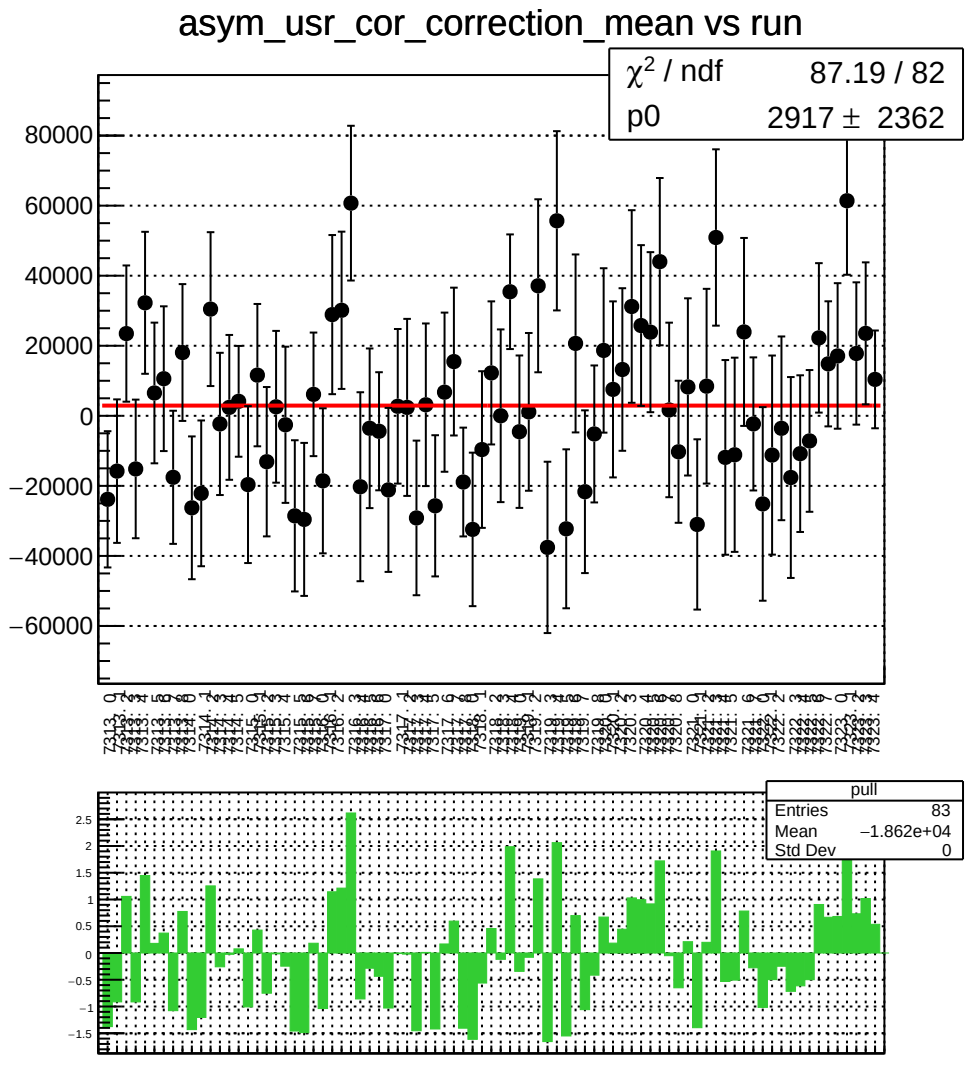

asym_usr_reg_correction_mean vs run
χ² / ndf 87.19 / 82
p0 2917 ± 2362
pull
Entries 83
Mean −1.862e+04
Std Dev 0

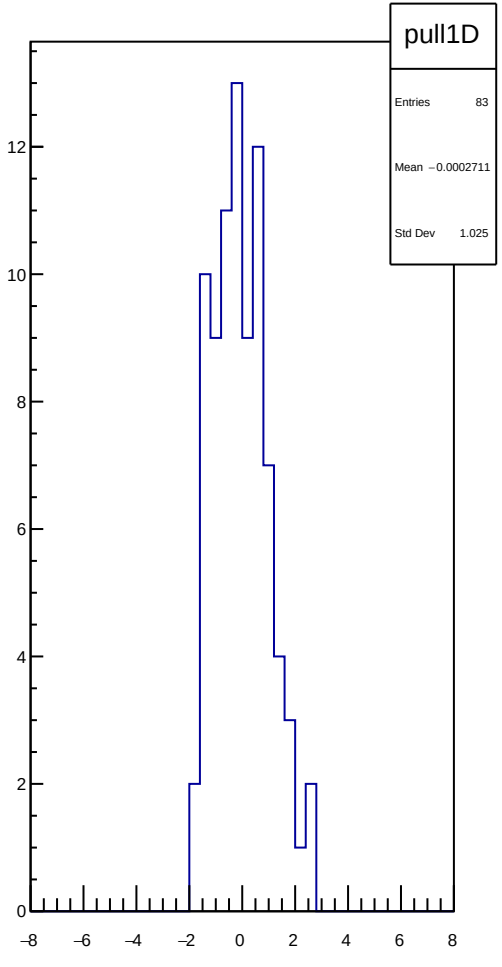

pull1D
Entries 83
Mean −0.0002711
Std Dev 1.025

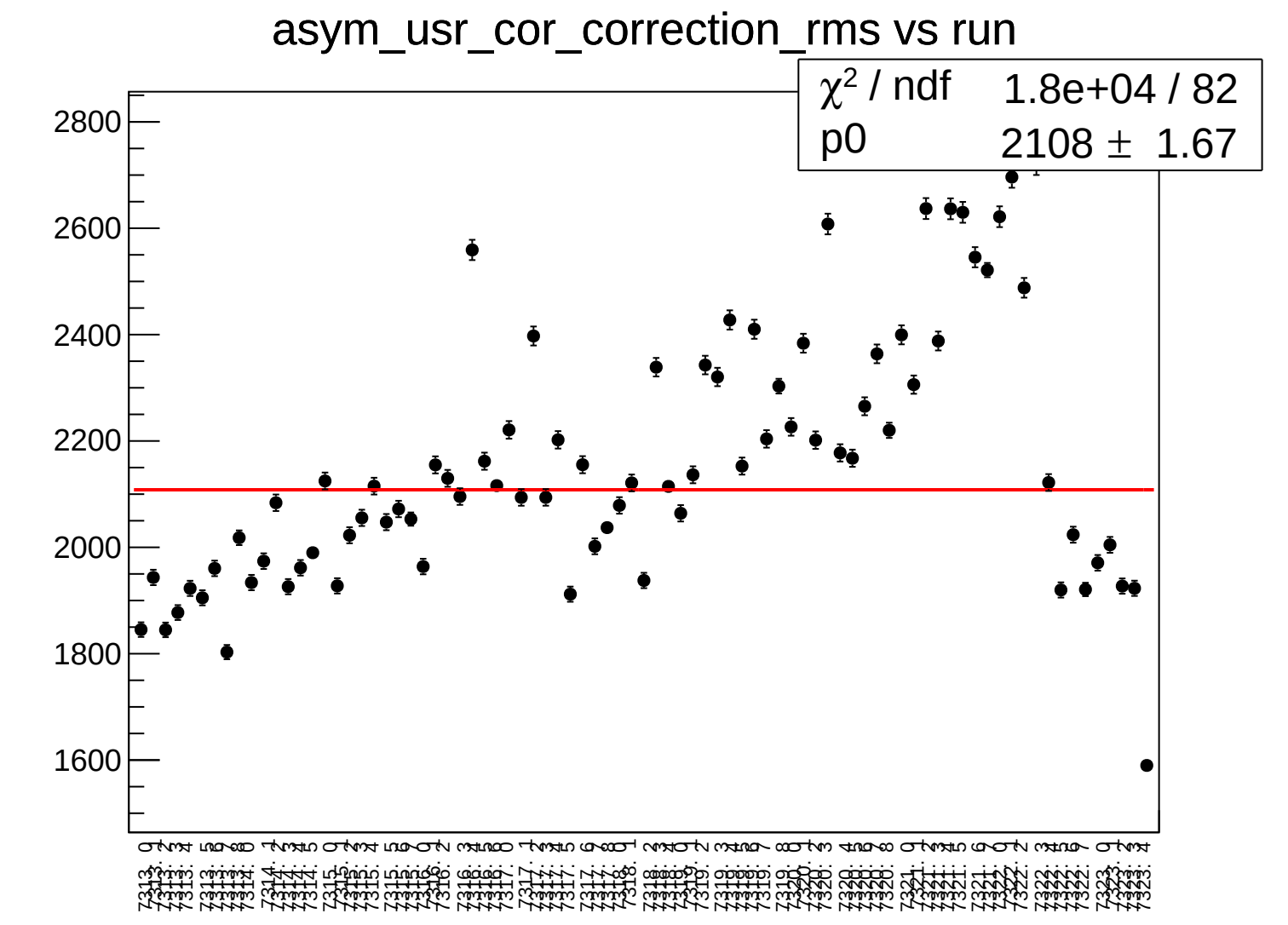

asym_usr_reg_correction_rms vs run
χ² / ndf 1.8e+04 / 82
p0 2108 ± 1.67
2800
2600
2400
2200
2000
1800
1600

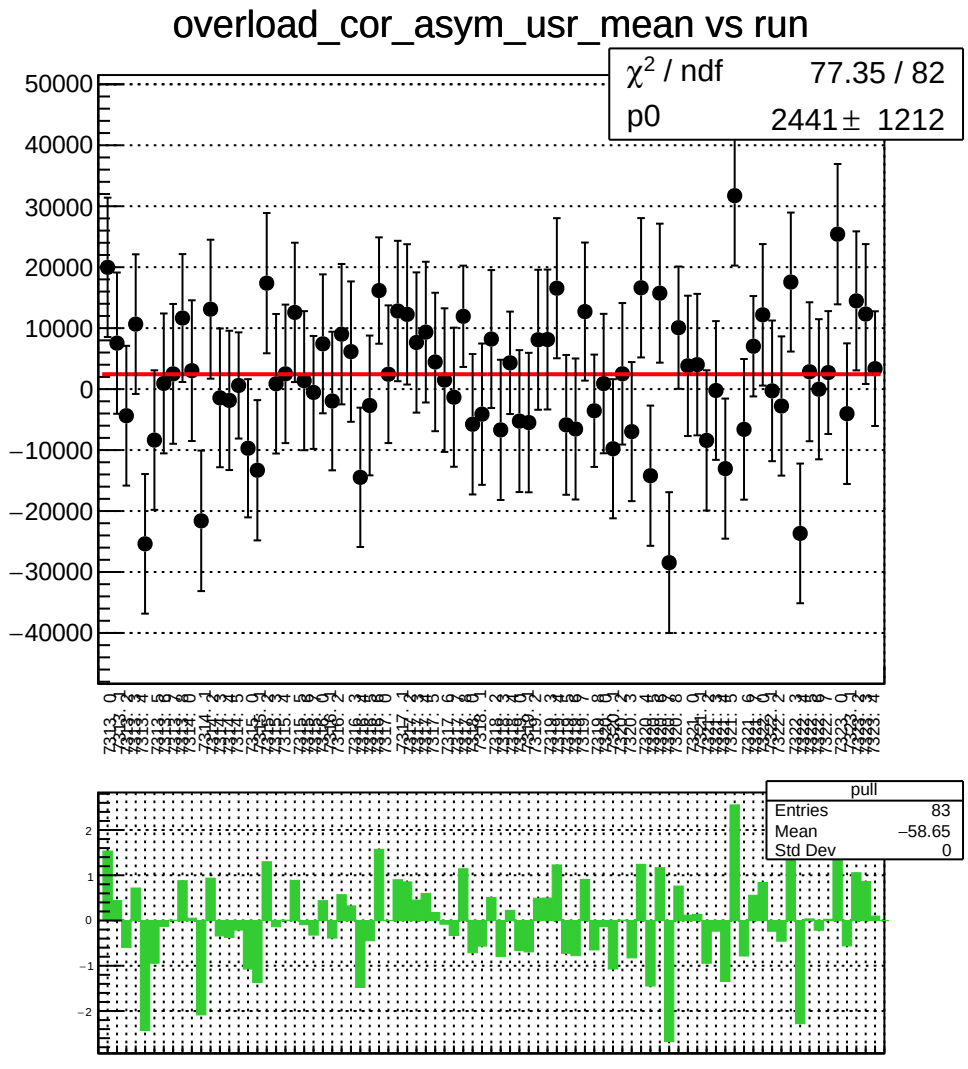

cor_asym_usr_mean vs run
χ² / ndf 78.48 / 82
p0 2508 ± 1216
pull
Entries 83
Mean −80.27
Std Dev 0
pull1D
Entries 83
Mean −0.01421
Std Dev 0.9723

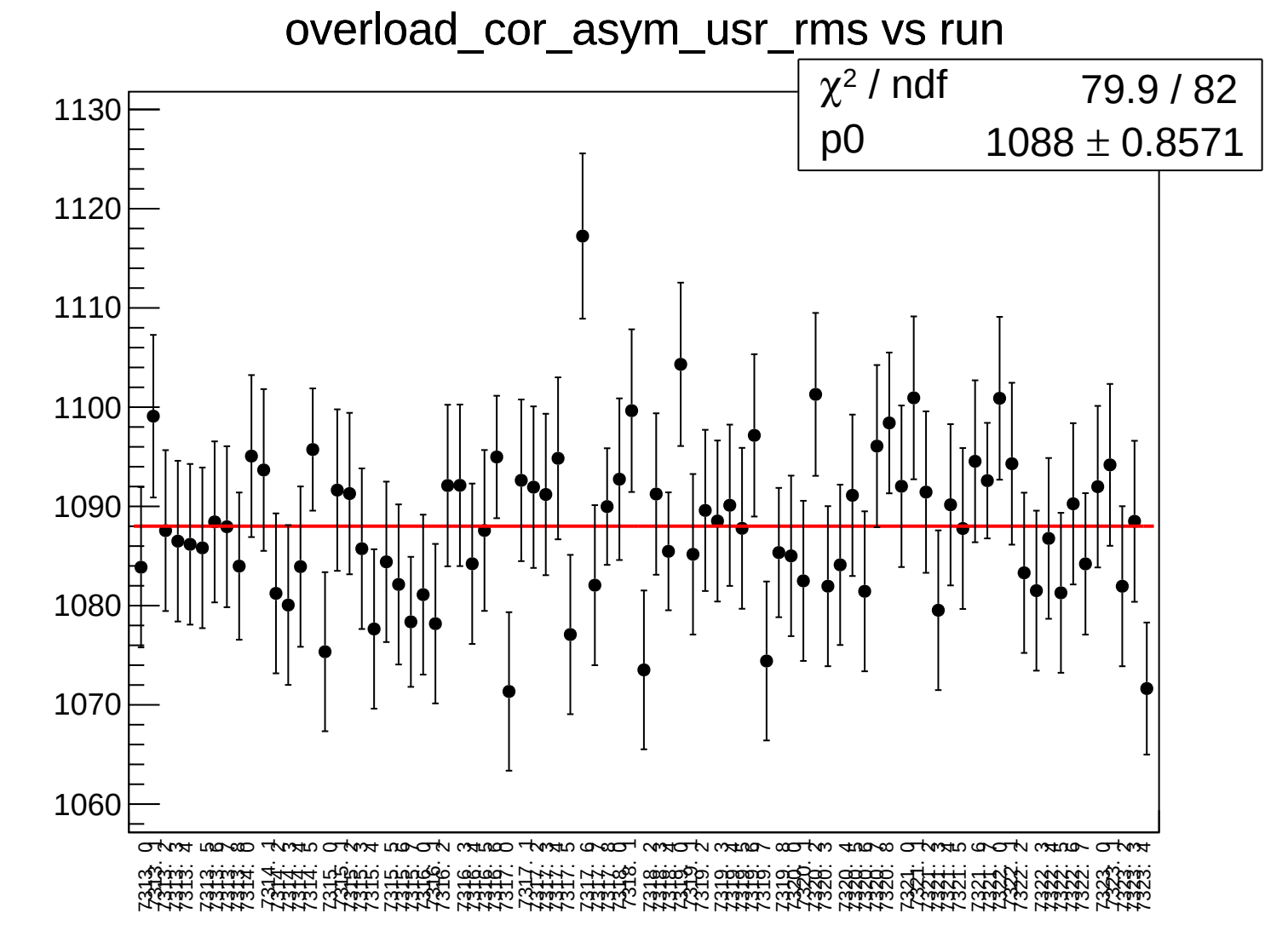

cor_asym_usr_rms vs run
χ² / ndf 79.64 / 82
p0 1091 ± 0.8597
1130
1120
1110
1100
1090
1080
1070
1060

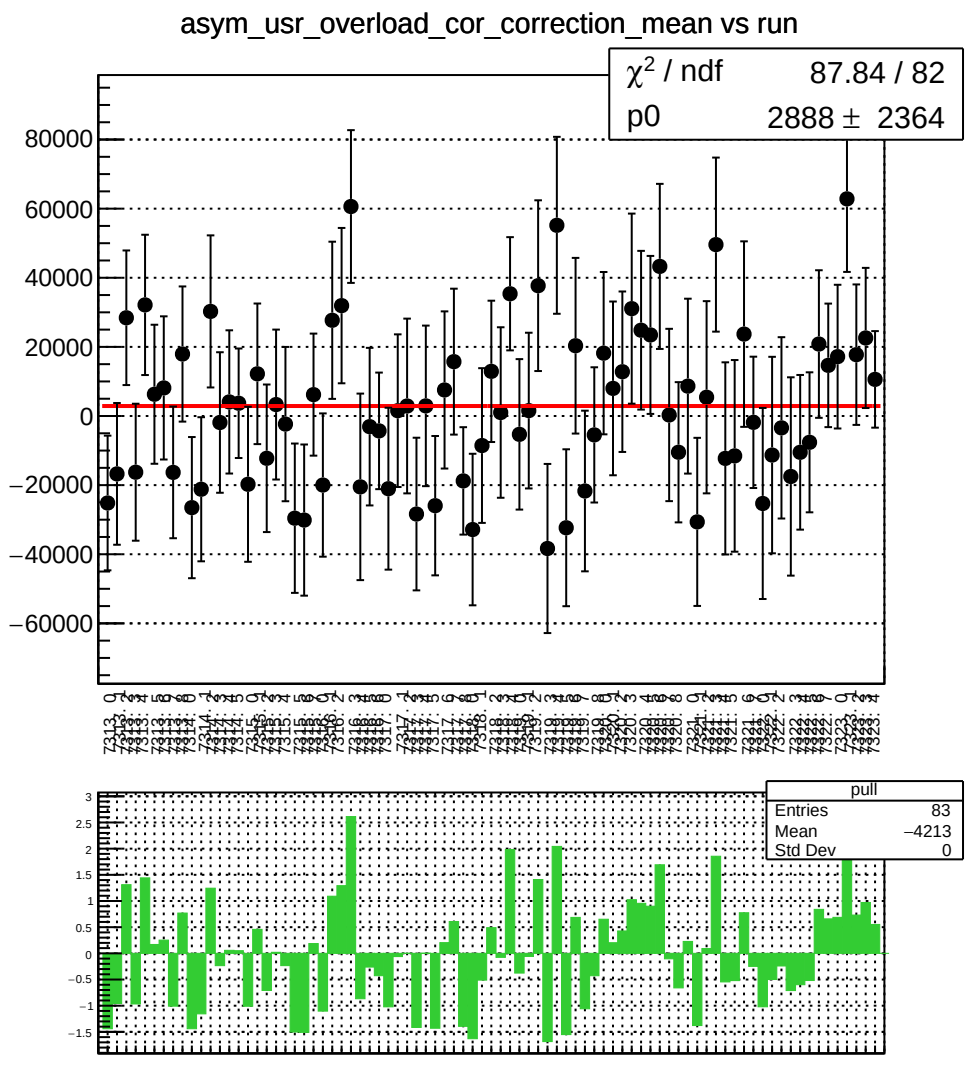

asym_usr_cor_correction_mean vs run
χ² / ndf 87.19 / 82
p0 2917 ± 2362
pull
Entries 83
Mean −1.862e+04
Std Dev 0

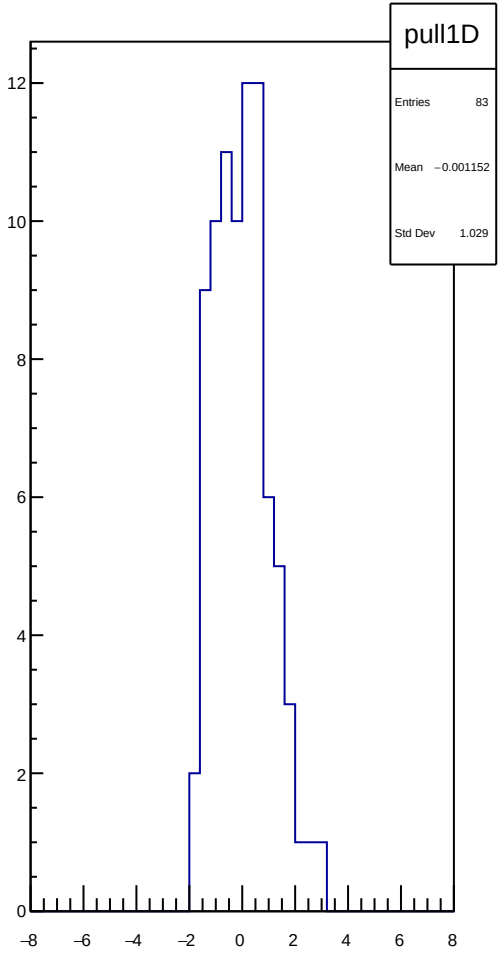

pull1D
Entries 83
Mean −0.0002711
Std Dev 1.025

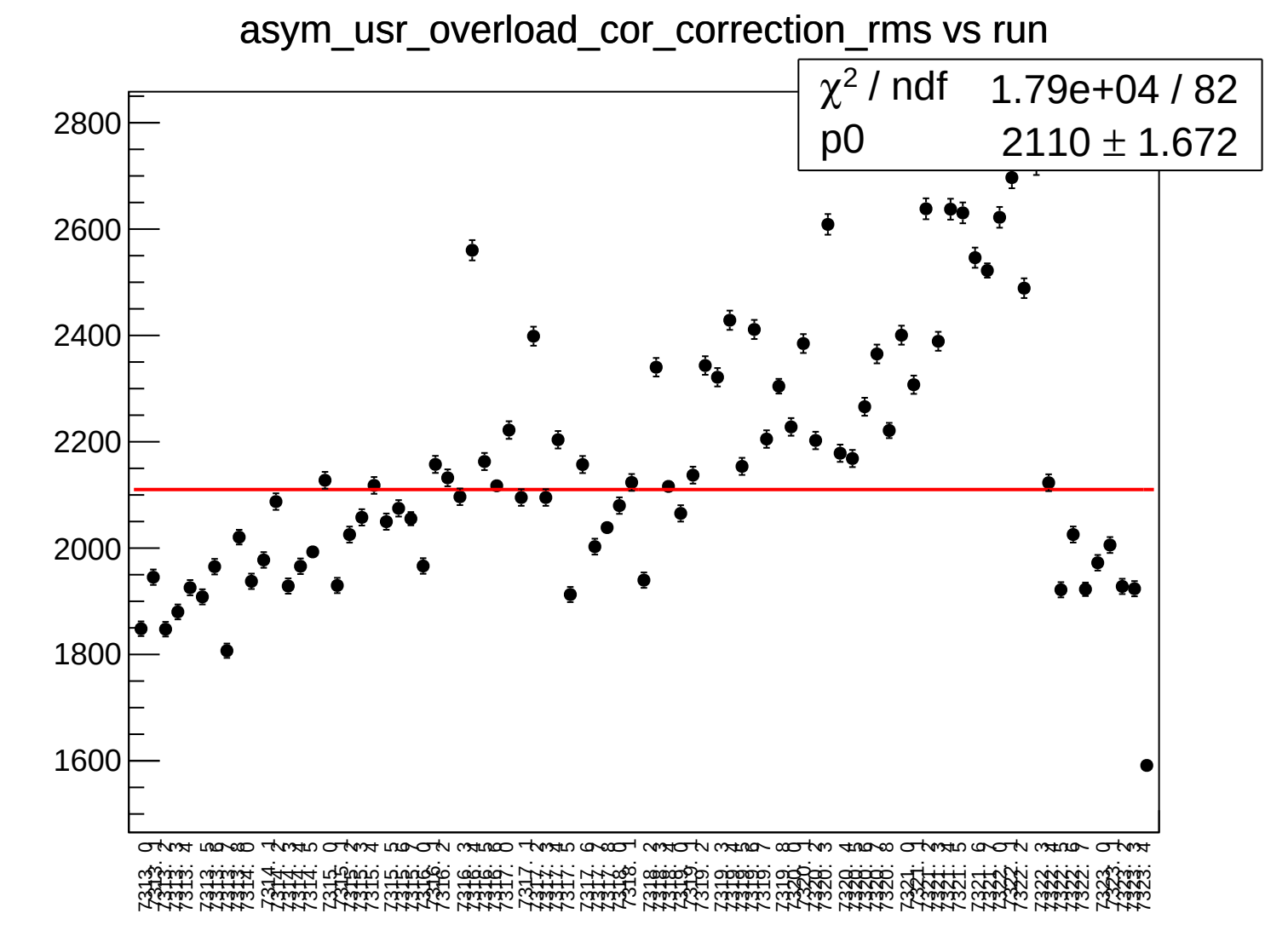

asym_usr_cor_correction_rms vs run
χ² / ndf 1.8e+04 / 82
p0 2108 ± 1.67
2800
2600
2400
2200
2000
1800
1600

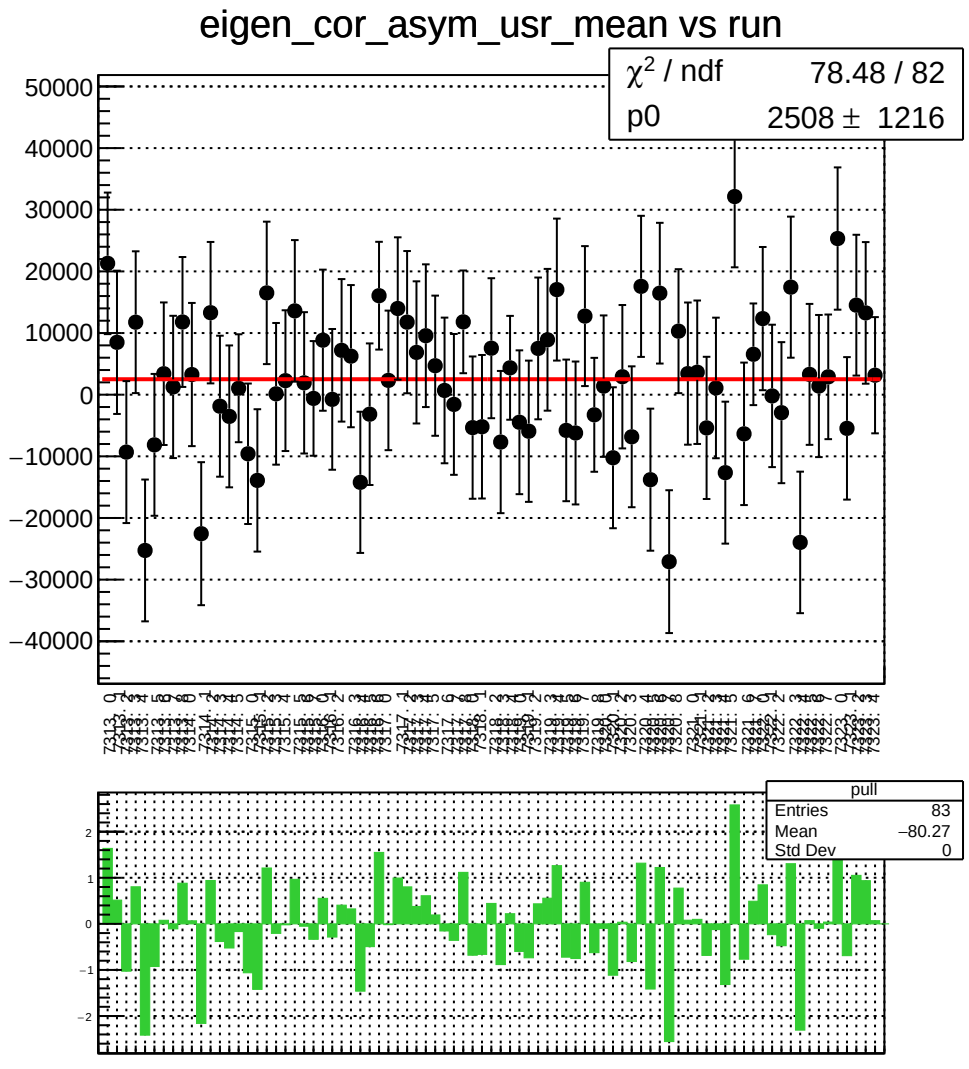

overload_cor_asym_usr_mean vs run
χ² / ndf 77.35 / 82
p0 2441 ± 1212
pull
Entries 83
Mean −58.65
Std Dev 0
pull1D
Entries 83
Mean −0.01437
Std Dev 0.9653

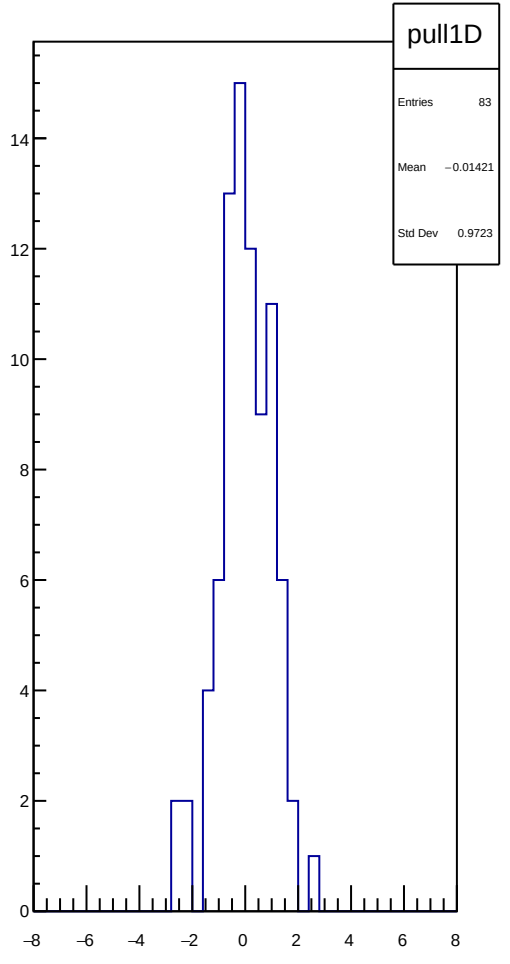

overload_cor_asym_usr_rms vs run
χ² / ndf 79.9 / 82
p0 1088 ± 0.8571
1130
1120
1110
1100
1090
1080
1070
1060

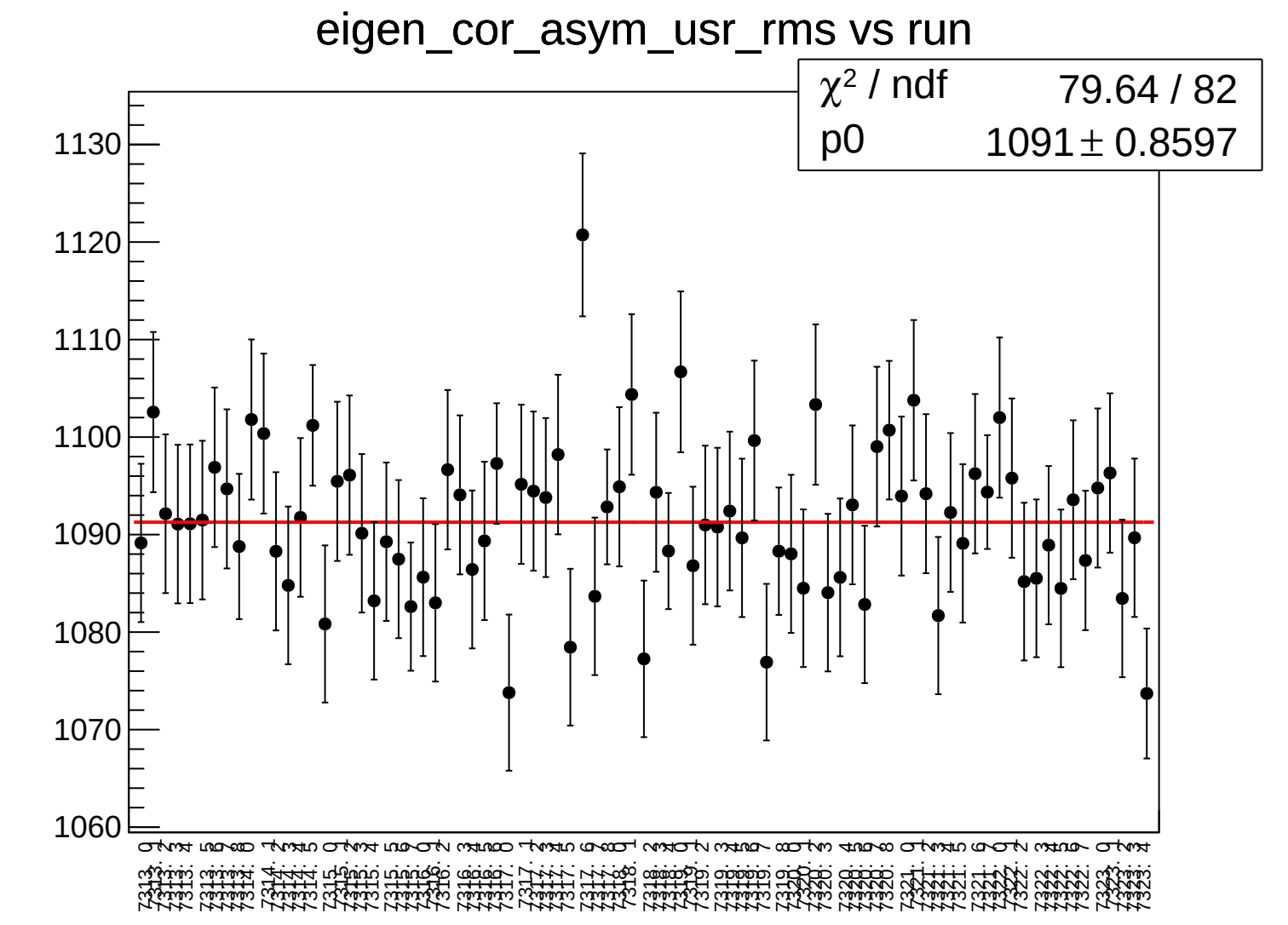

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 87.84 / 82
p0 2888 ± 2364
pull
Entries 83
Mean −4213
Std Dev 0

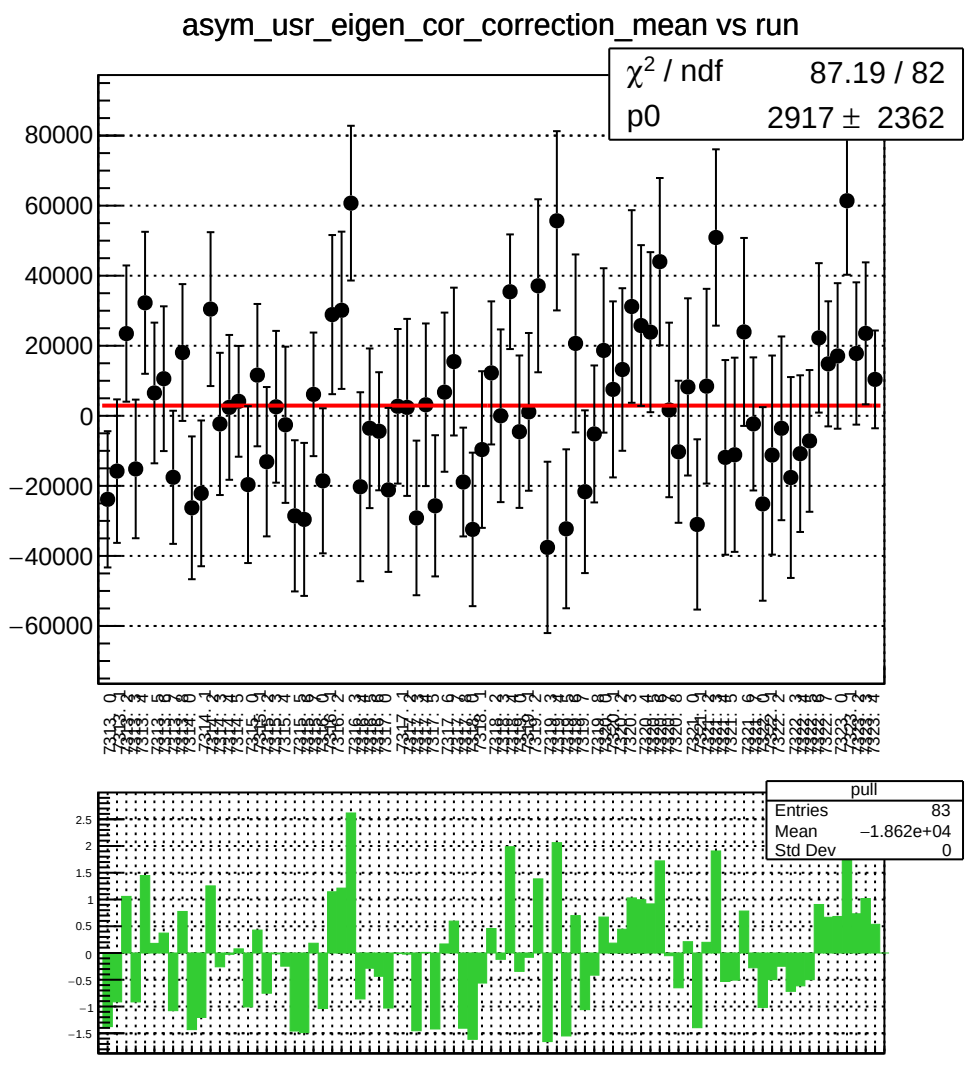

pull1D
Entries 83
Mean −0.001152
Std Dev 1.029

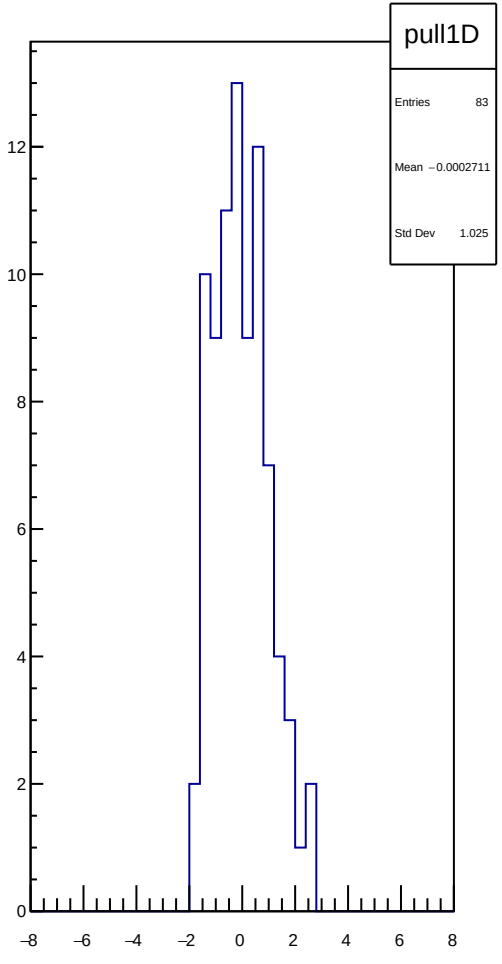

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.79e+04 / 82
p0 2110 ± 1.672
2800
2600
2400
2200
2000
1800
1600

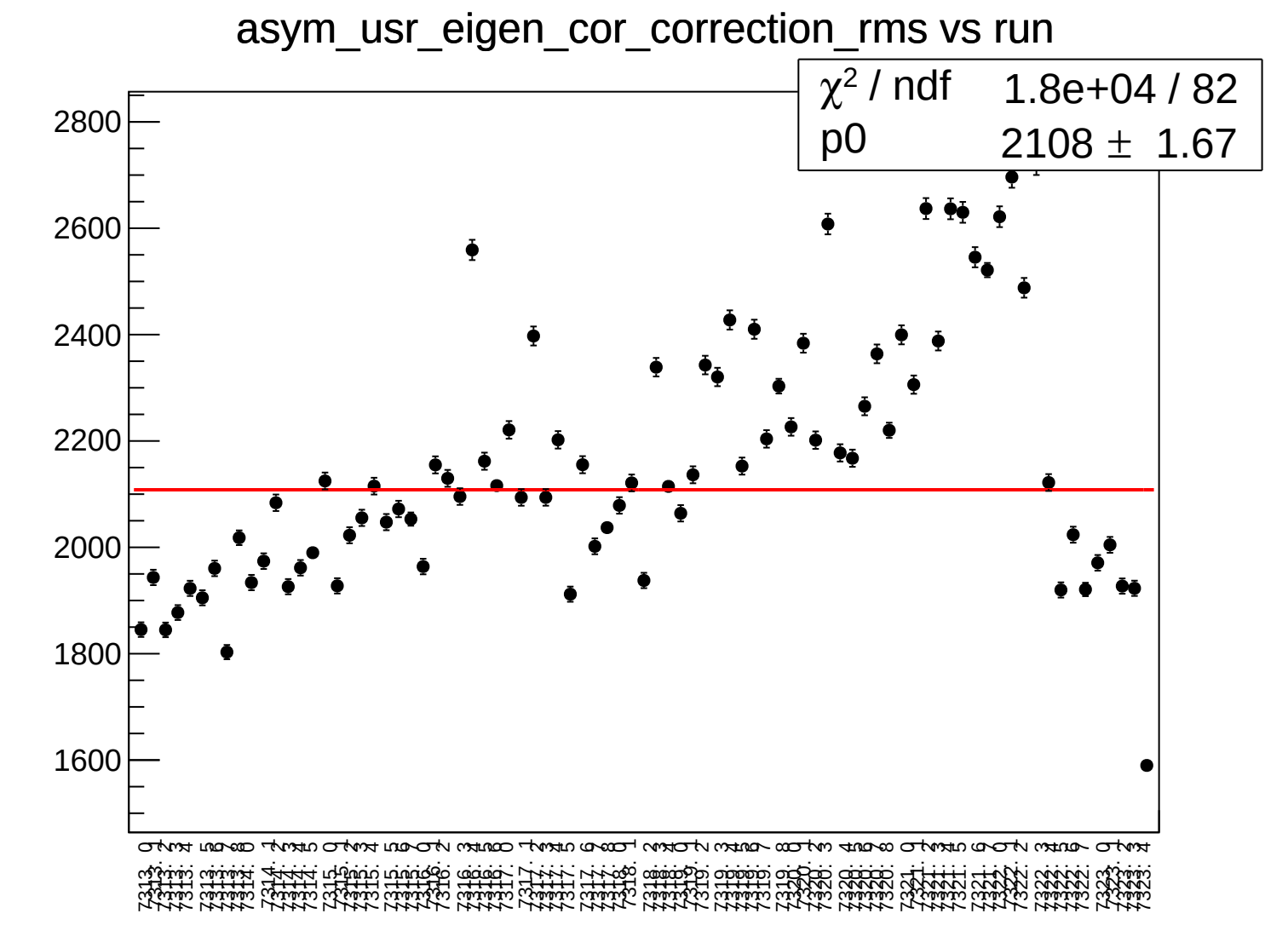

eigen_cor_asym_usr_mean vs run
χ² / ndf 78.48 / 82
p0 2508 ± 1216
pull
Entries 83
Mean −80.27
Std Dev 0

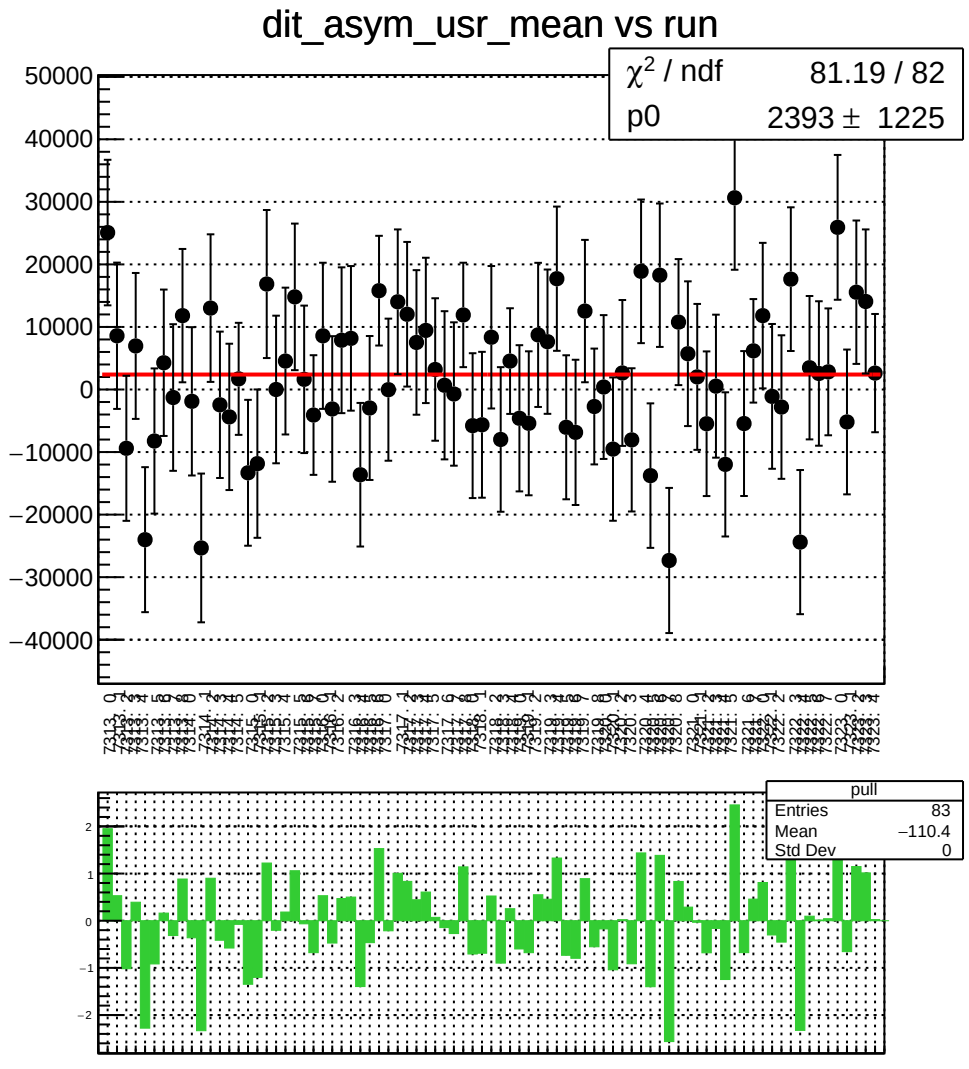

pull1D
Entries 83
Mean −0.01421
Std Dev 0.9723

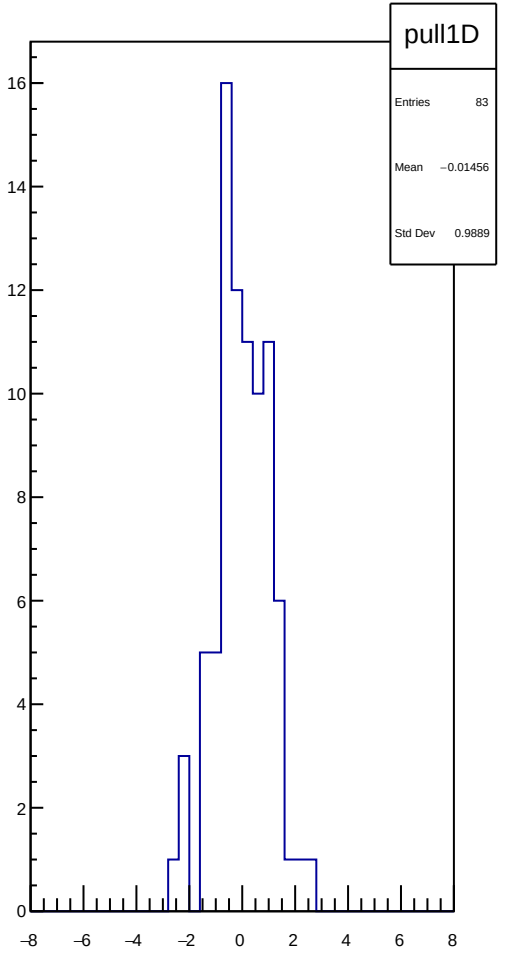

eigen_cor_asym_usr_rms vs run
χ² / ndf 79.64 / 82
p0 1091 ± 0.8597
1130
1120
1110
1100
1090
1080
1070
1060

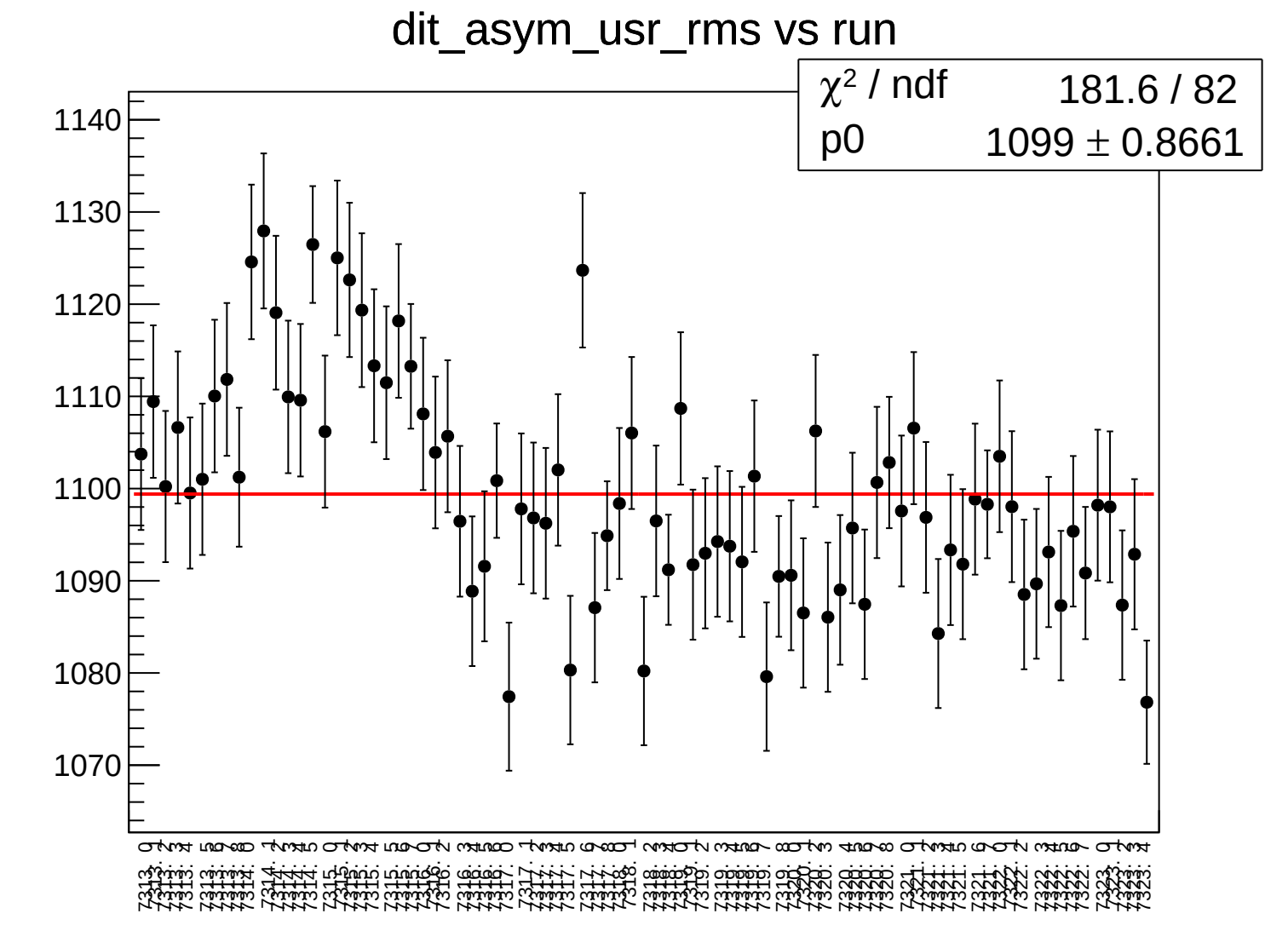

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 87.19 / 82
p0 2917 ± 2362
pull
Entries 83
Mean −1.862e+04
Std Dev 0

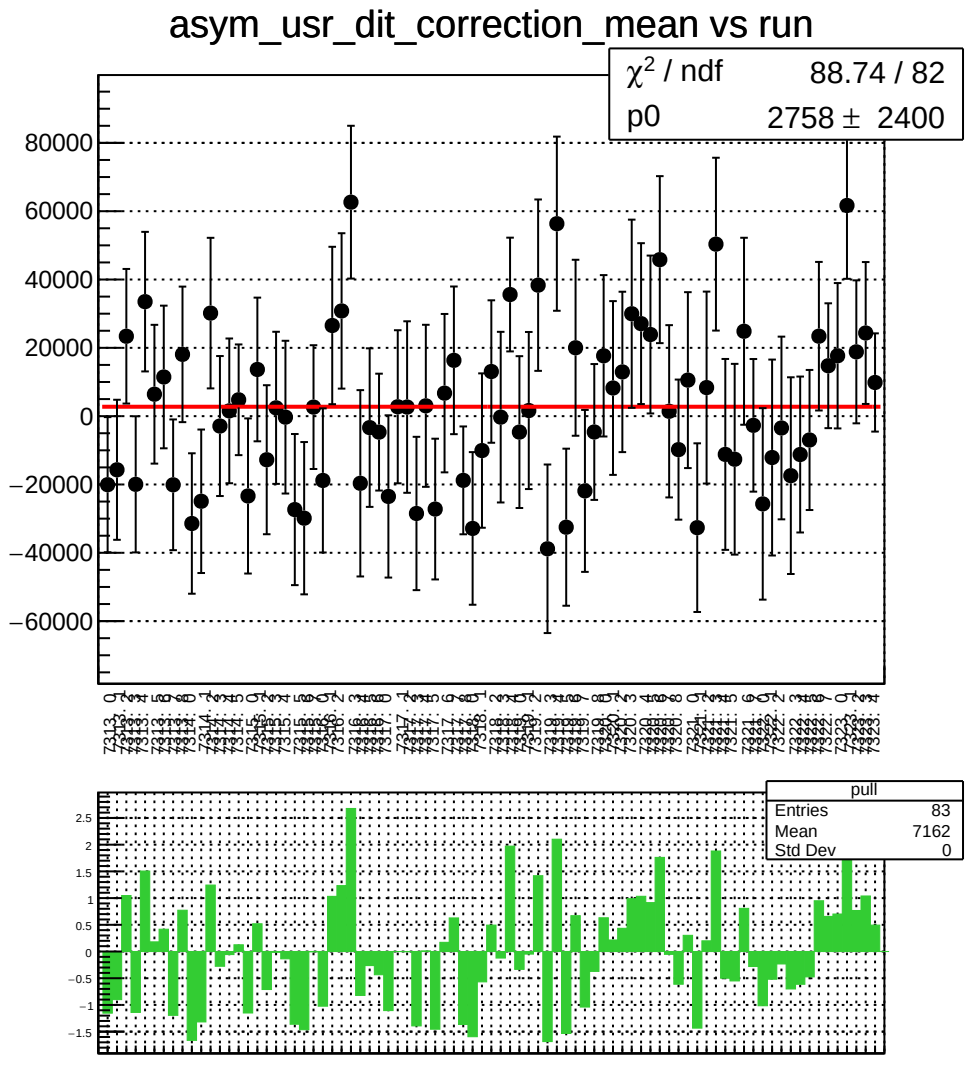

pull1D
Entries 83
Mean −0.0002711
Std Dev 1.025

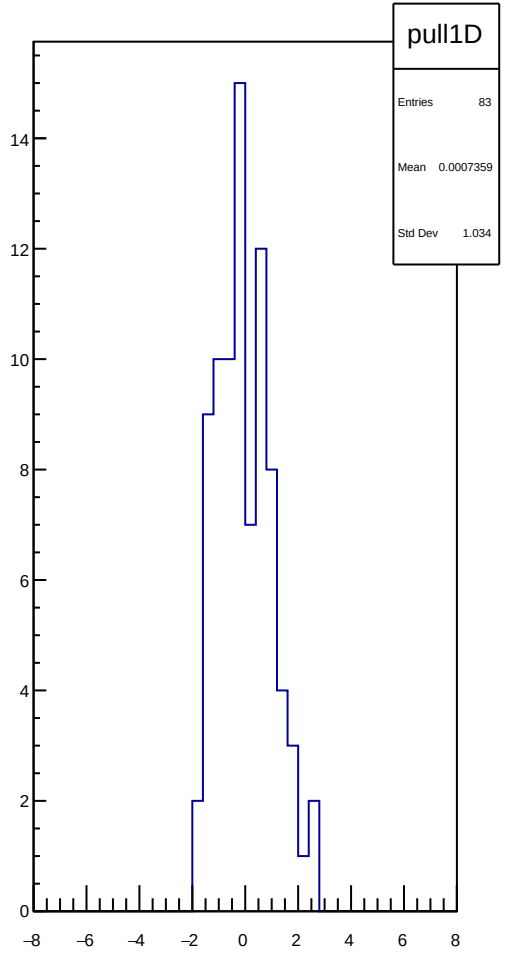

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.8e+04 / 82
p0 2108 ± 1.67
2800
2600
2400
2200
2000
1800
1600

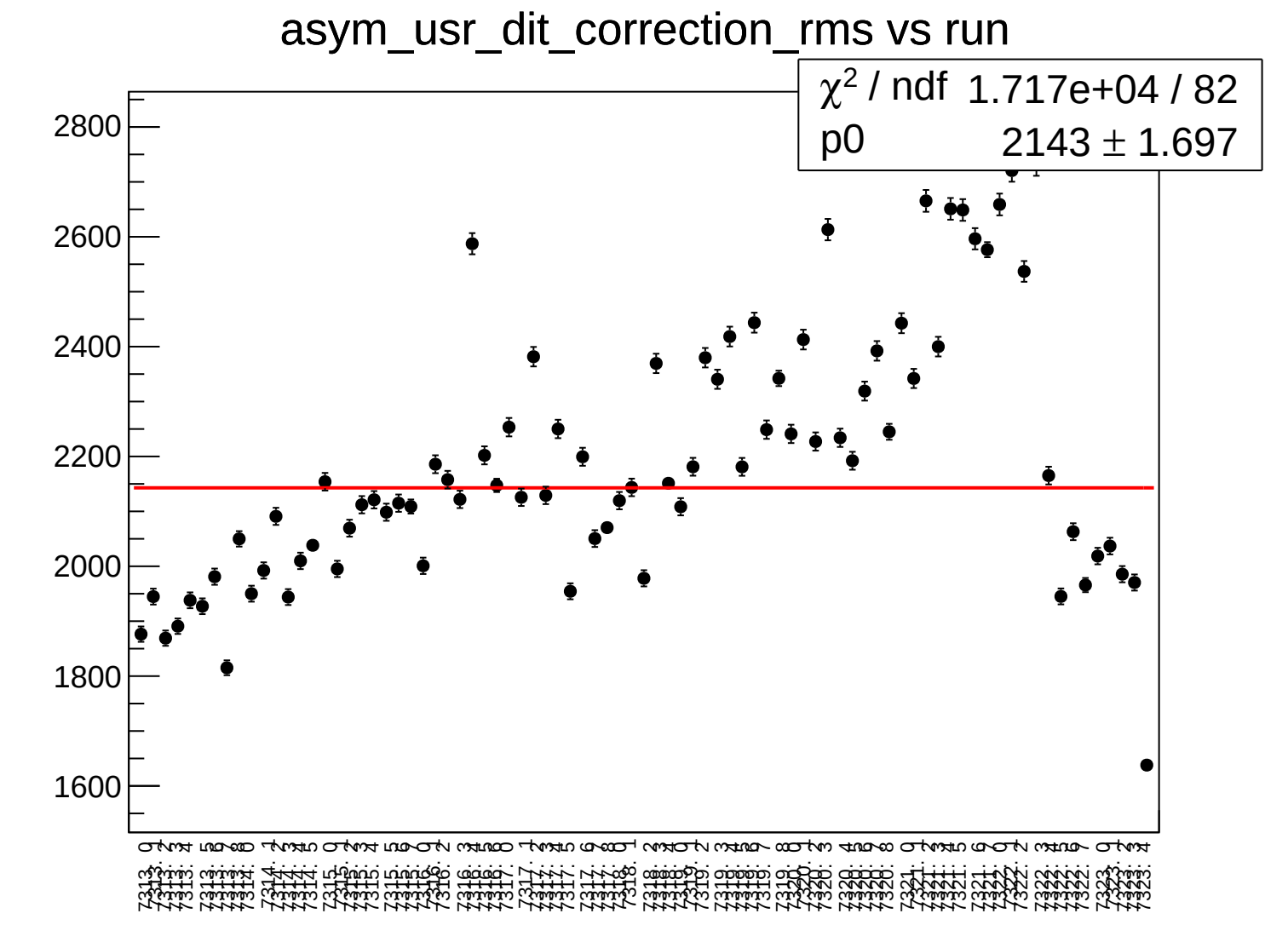

dit_asym_usr_mean vs run
χ² / ndf 81.19 / 82
p0 2393 ± 1225
pull
Entries 83
Mean −110.4
Std Dev 0

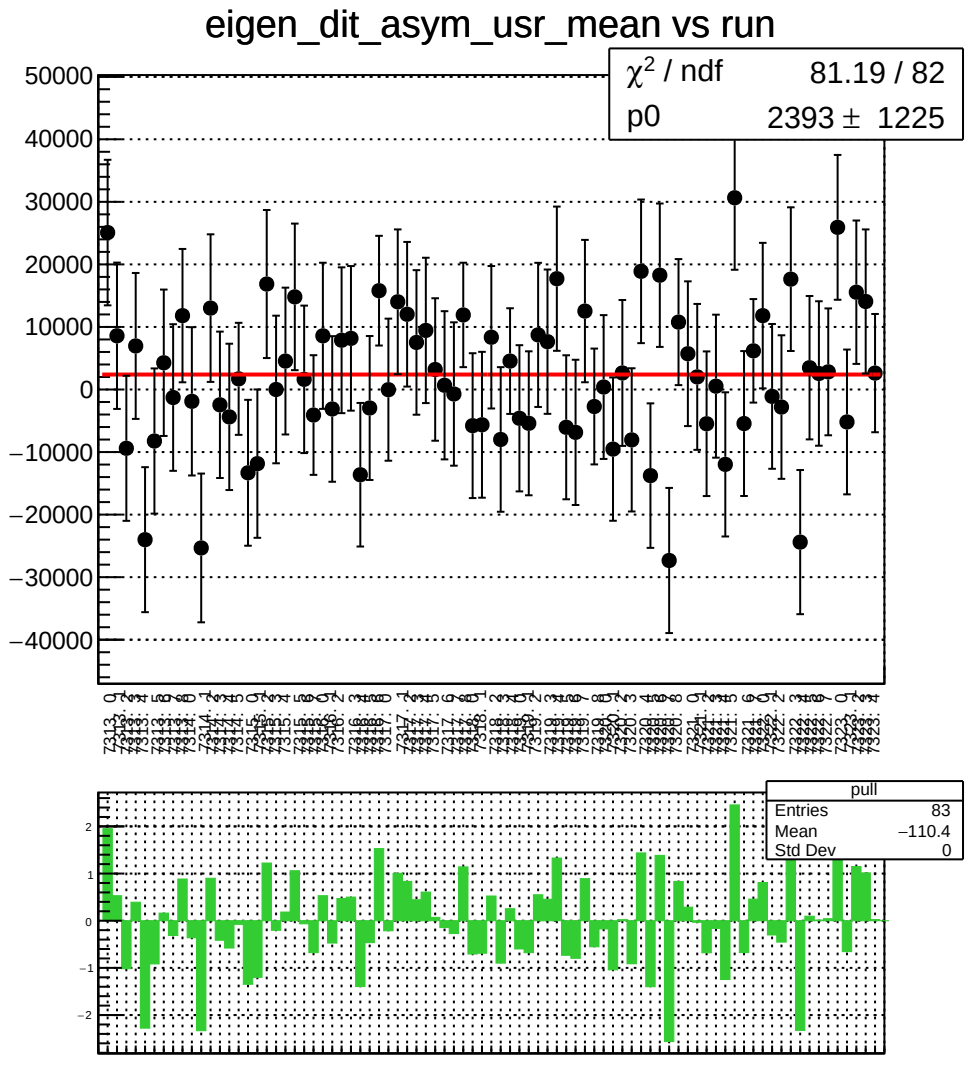

pull1D
Entries 83
Mean −0.01456
Std Dev 0.9889

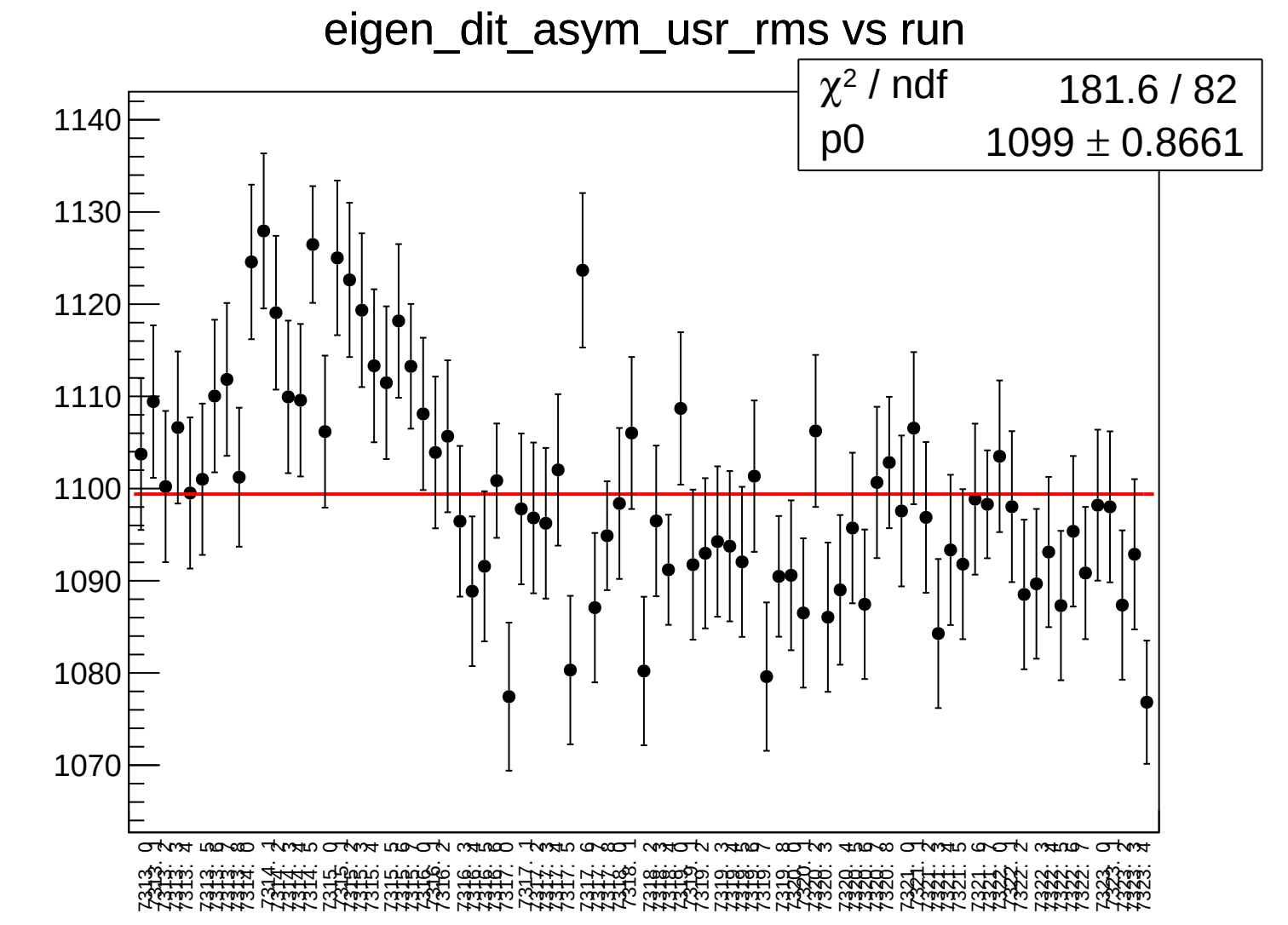

dit_asym_usr_rms vs run
χ² / ndf 181.6 / 82
p0 1099 ± 0.8661
1140
1130
1120
1110
1100
1090
1080
1070

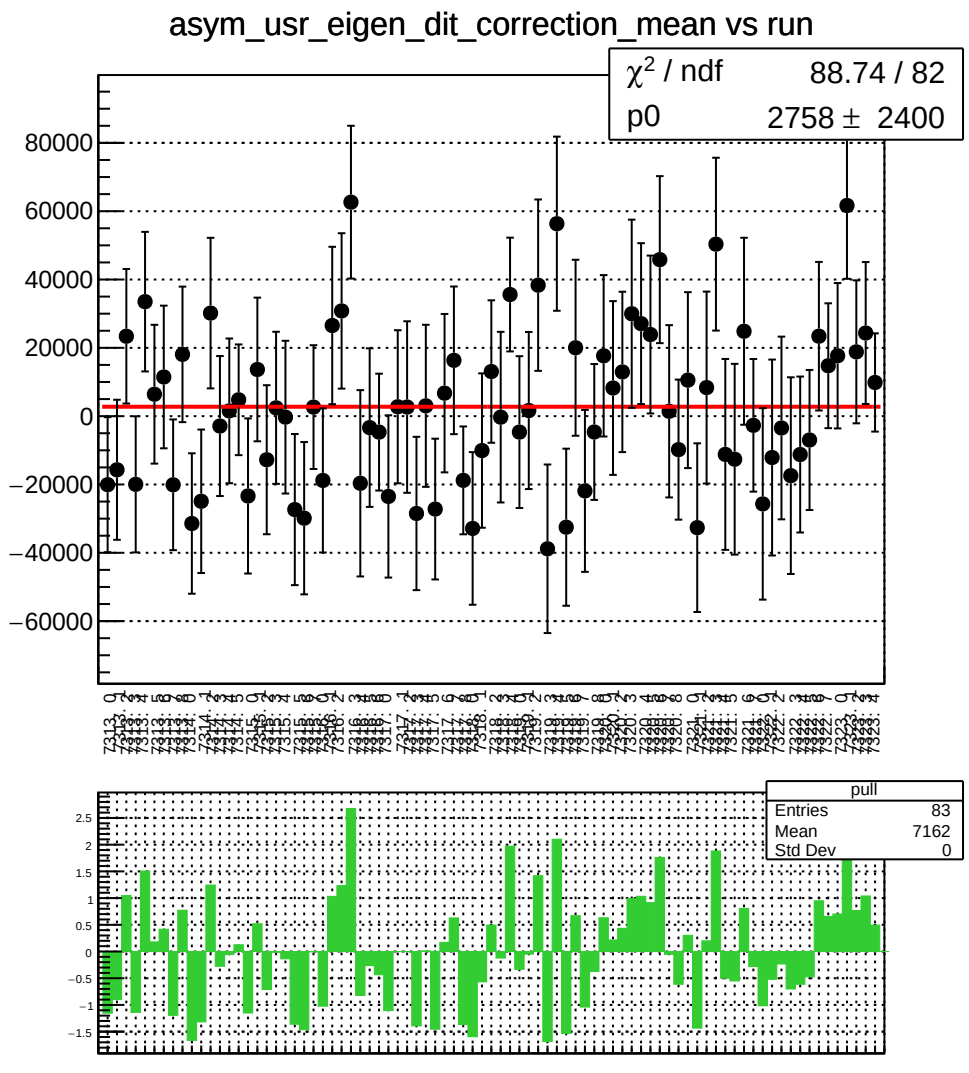

asym_usr_dit_correction_mean vs run
χ² / ndf 88.74 / 82
p0 2758 ± 2400
pull
Entries 83
Mean 7162
Std Dev 0

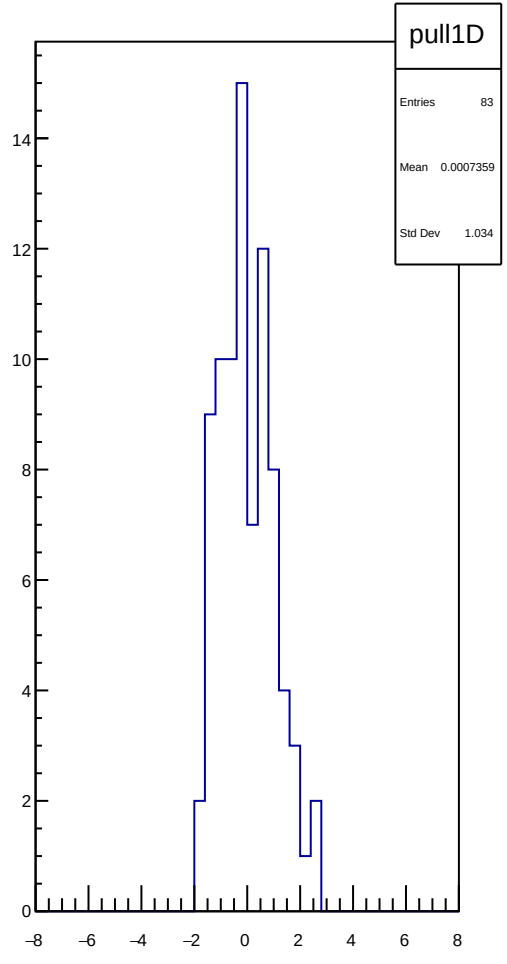

pull1D
Entries 83
Mean 0.0007359
Std Dev 1.034

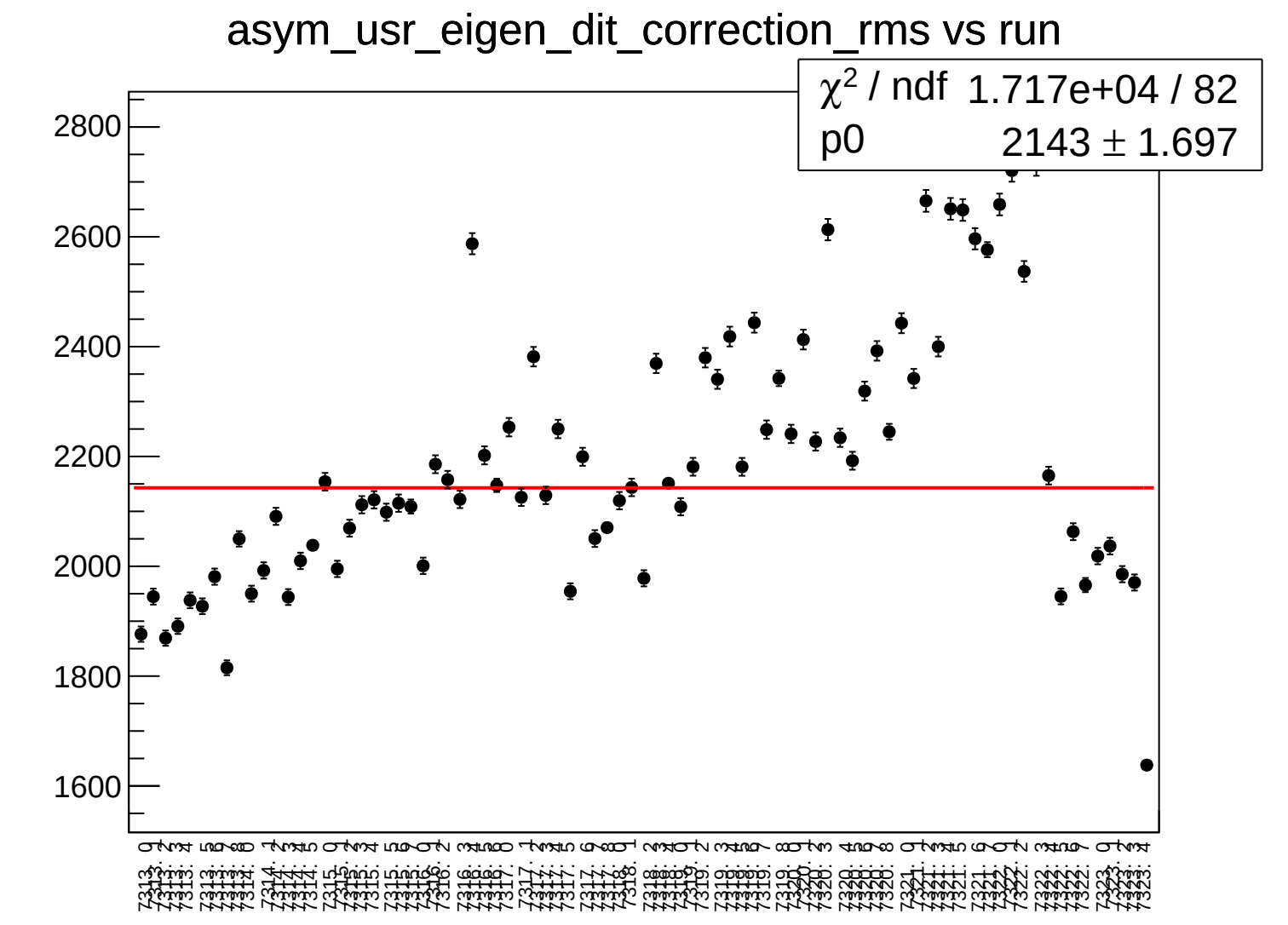

asym_usr_dit_correction_rms vs run
χ² / ndf 1.717e+04 / 82
p0 2143 ± 1.697
2800
2600
2400
2200
2000
1800
1600

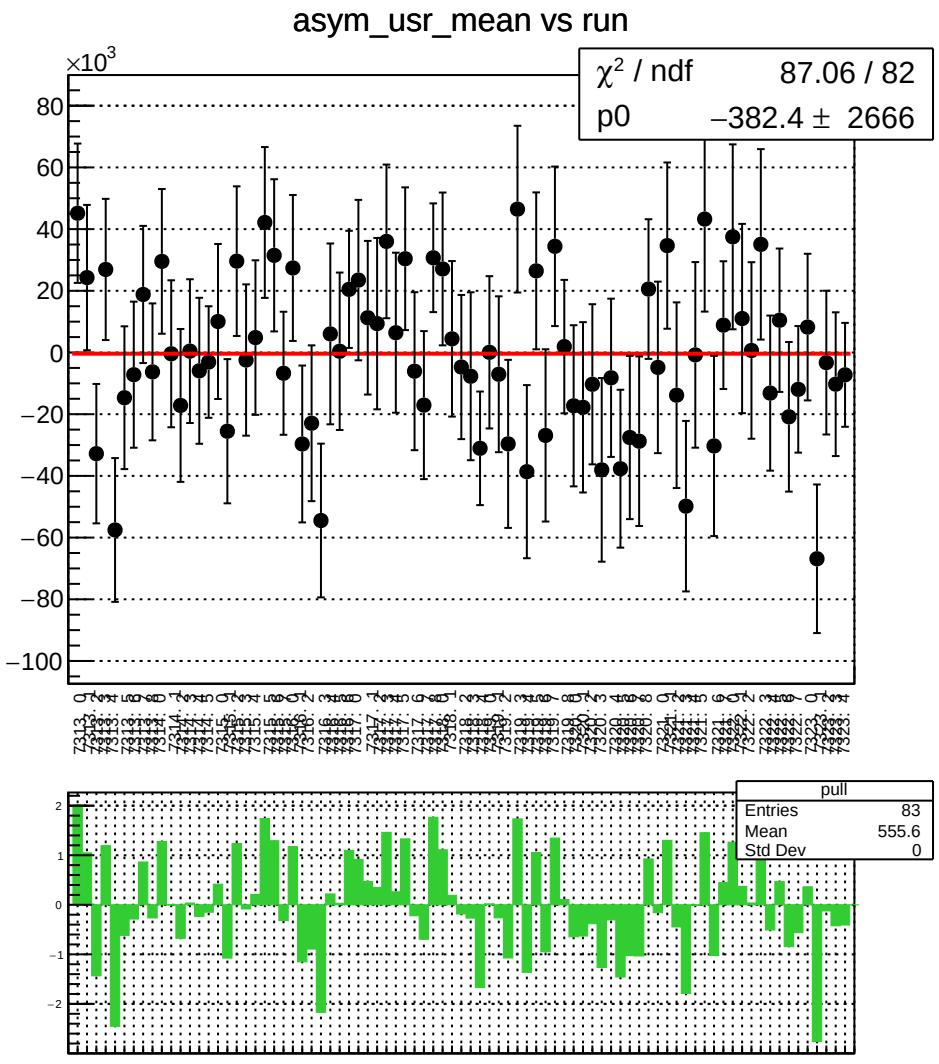

eigen_dit_asym_usr_mean vs run
χ² / ndf 81.19 / 82
p0 2393 ± 1225
pull
Entries 83
Mean −110.4
Std Dev 0
pull1D
Entries 83
Mean −0.01456
Std Dev 0.9889

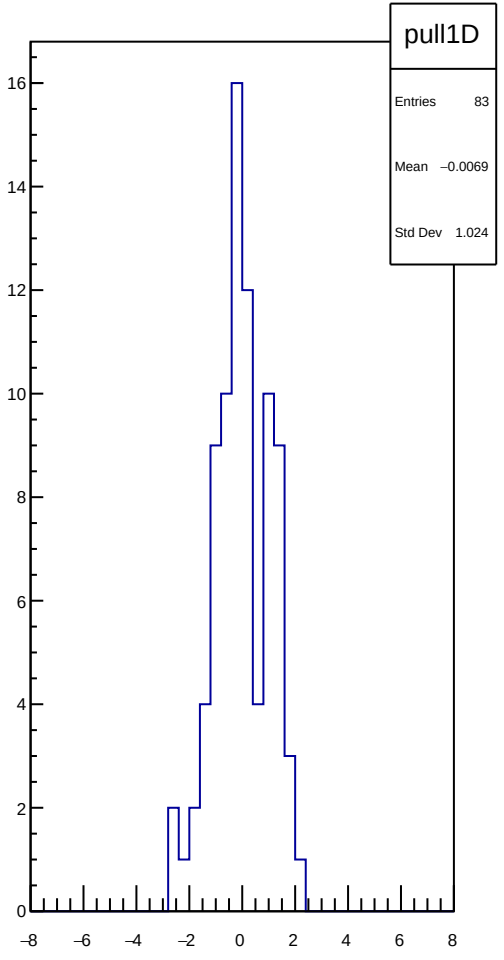

eigen_dit_asym_usr_rms vs run
χ² / ndf 181.6 / 82
p0 1099 ± 0.8661
1140
1130
1120
1110
1100
1090
1080
1070

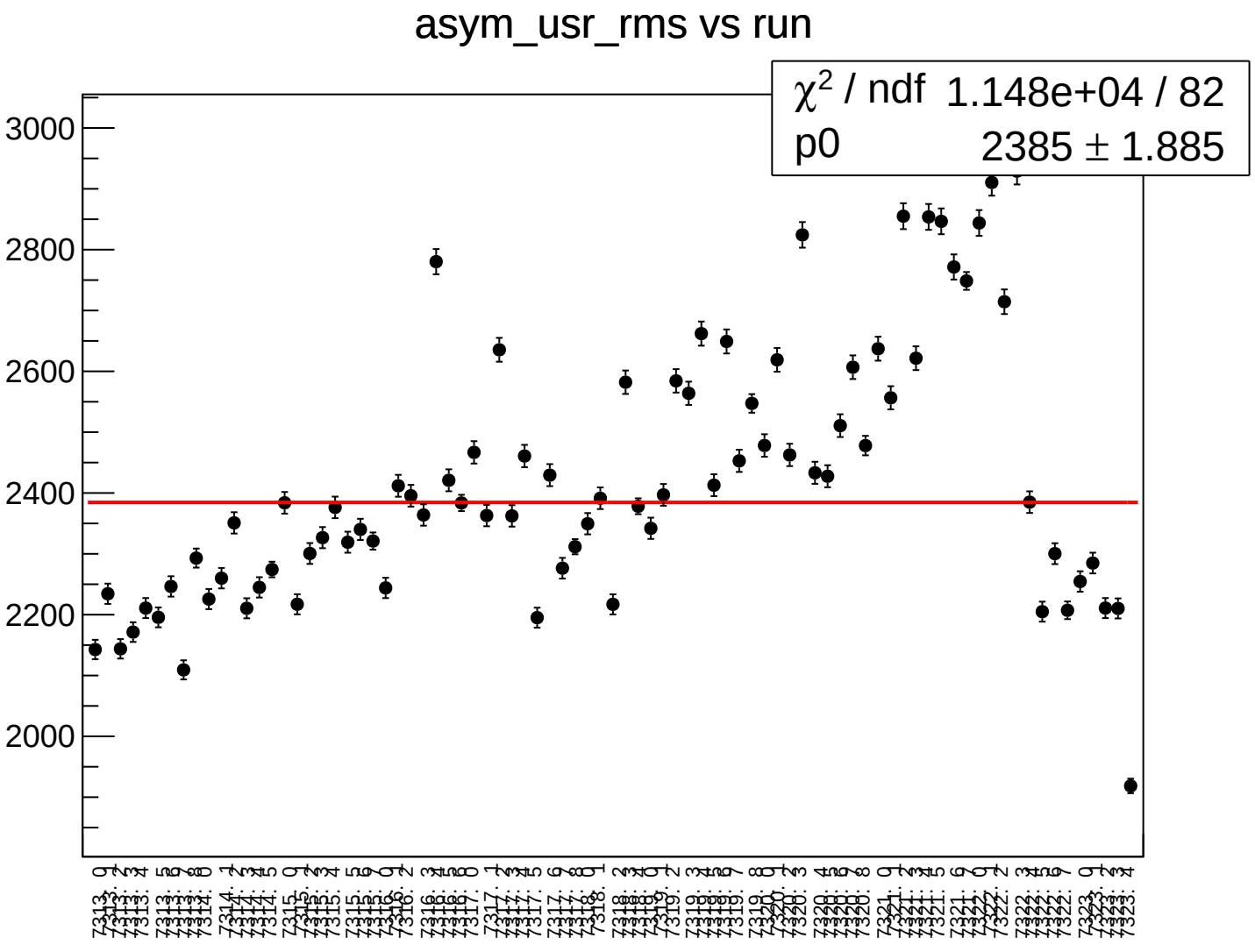

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 88.74 / 82
p0 2758 ± 2400
pull
Entries 83
Mean 7162
Std Dev 0

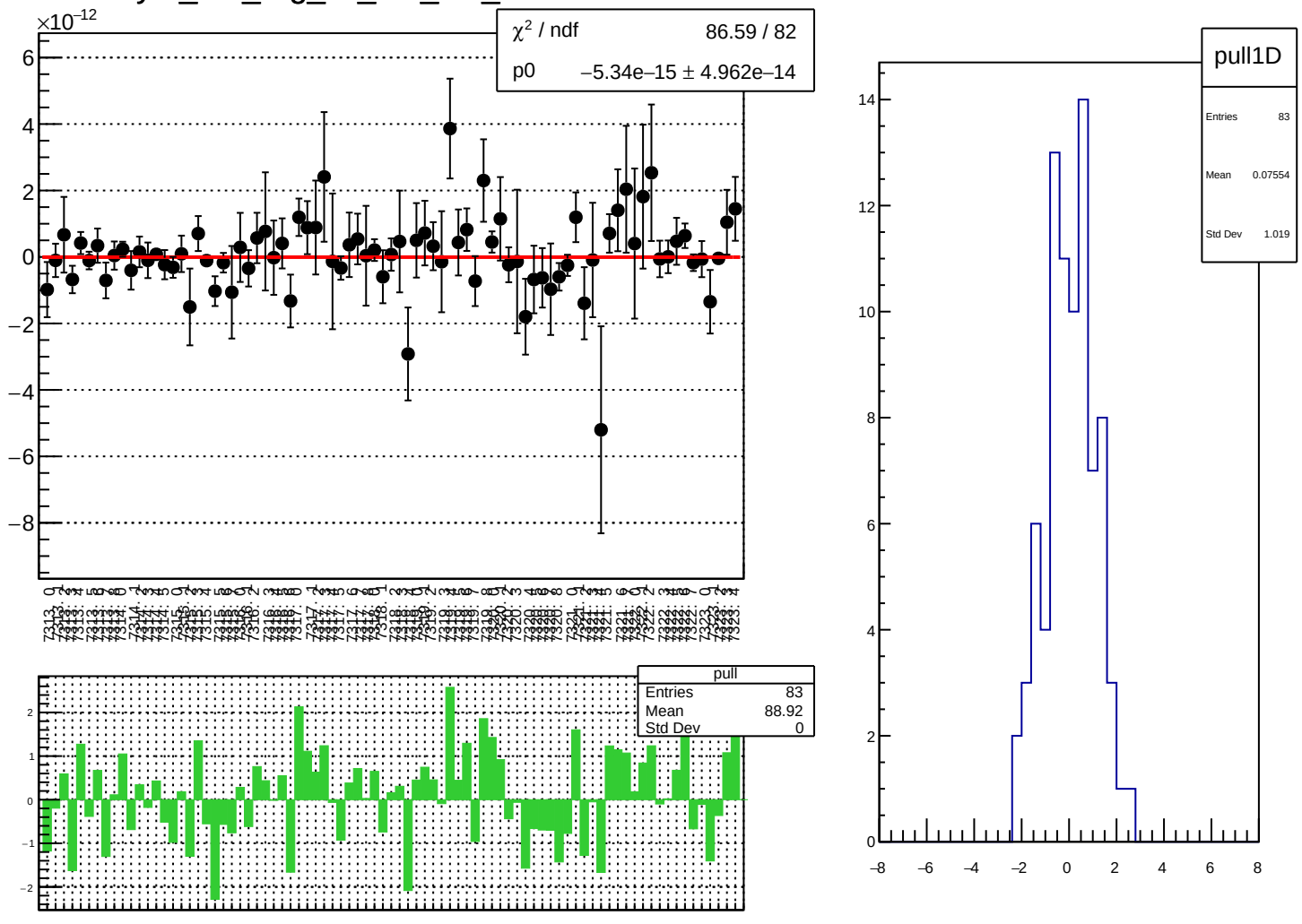

pull1D
Entries 83
Mean 0.0007359
Std Dev 1.034

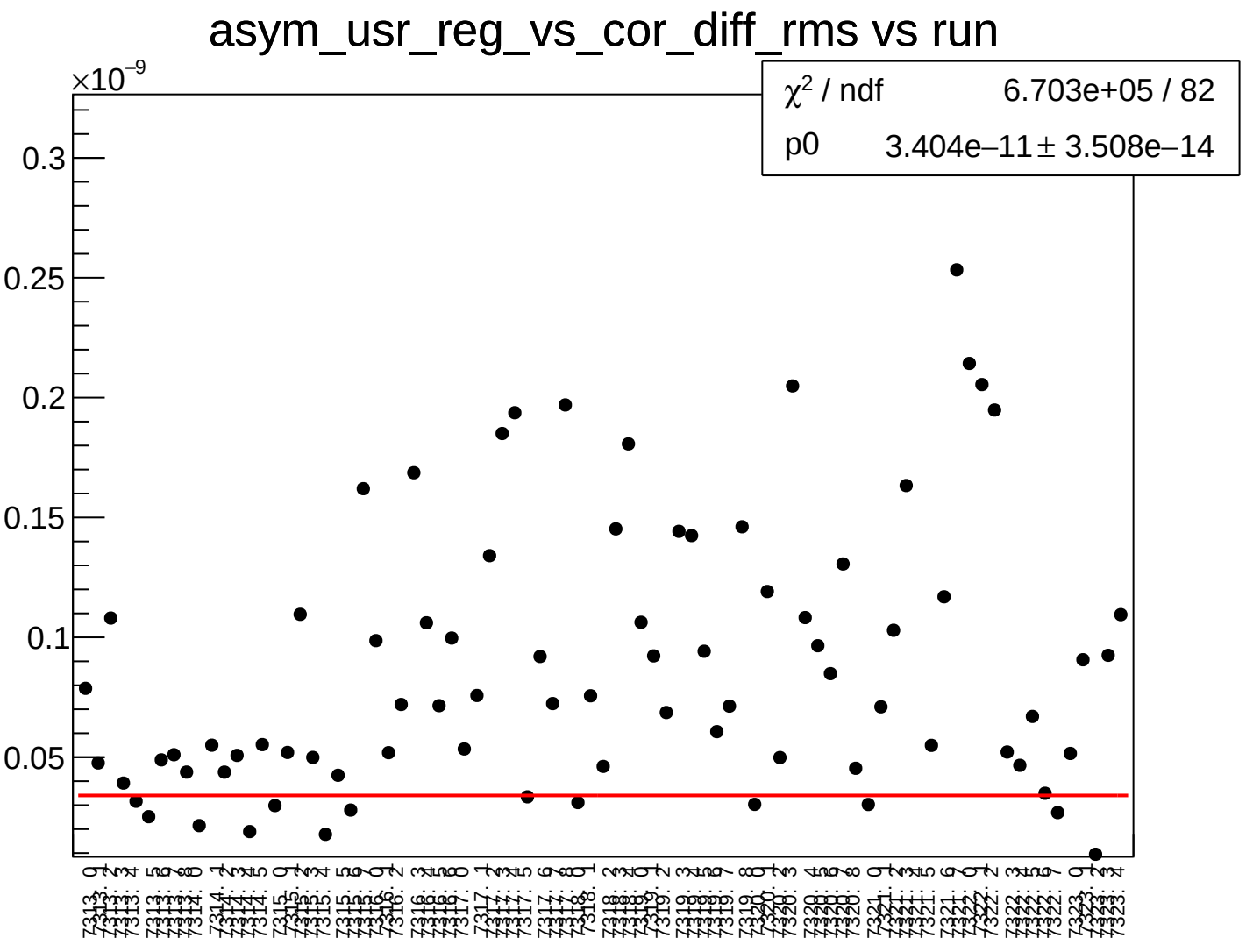

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.717e+04 / 82
p0 2143 ± 1.697
2800
2600
2400
2200
2000
1800
1600

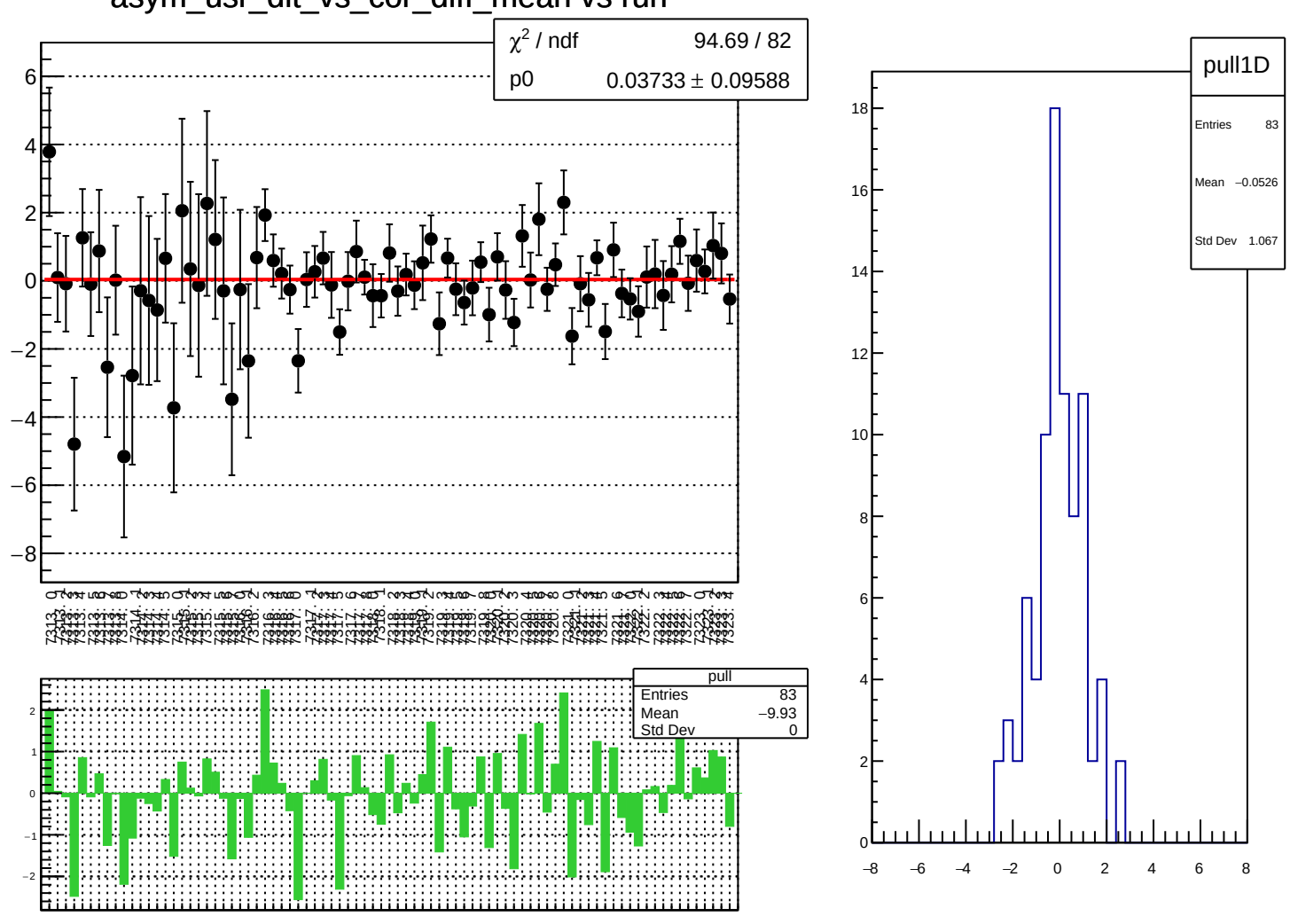

asym_usr_mean vs run
×10^3
χ² / ndf 87.06 / 82
p0 −382.4 ± 2666
pull
Entries 83
Mean 555.6
Std Dev 0

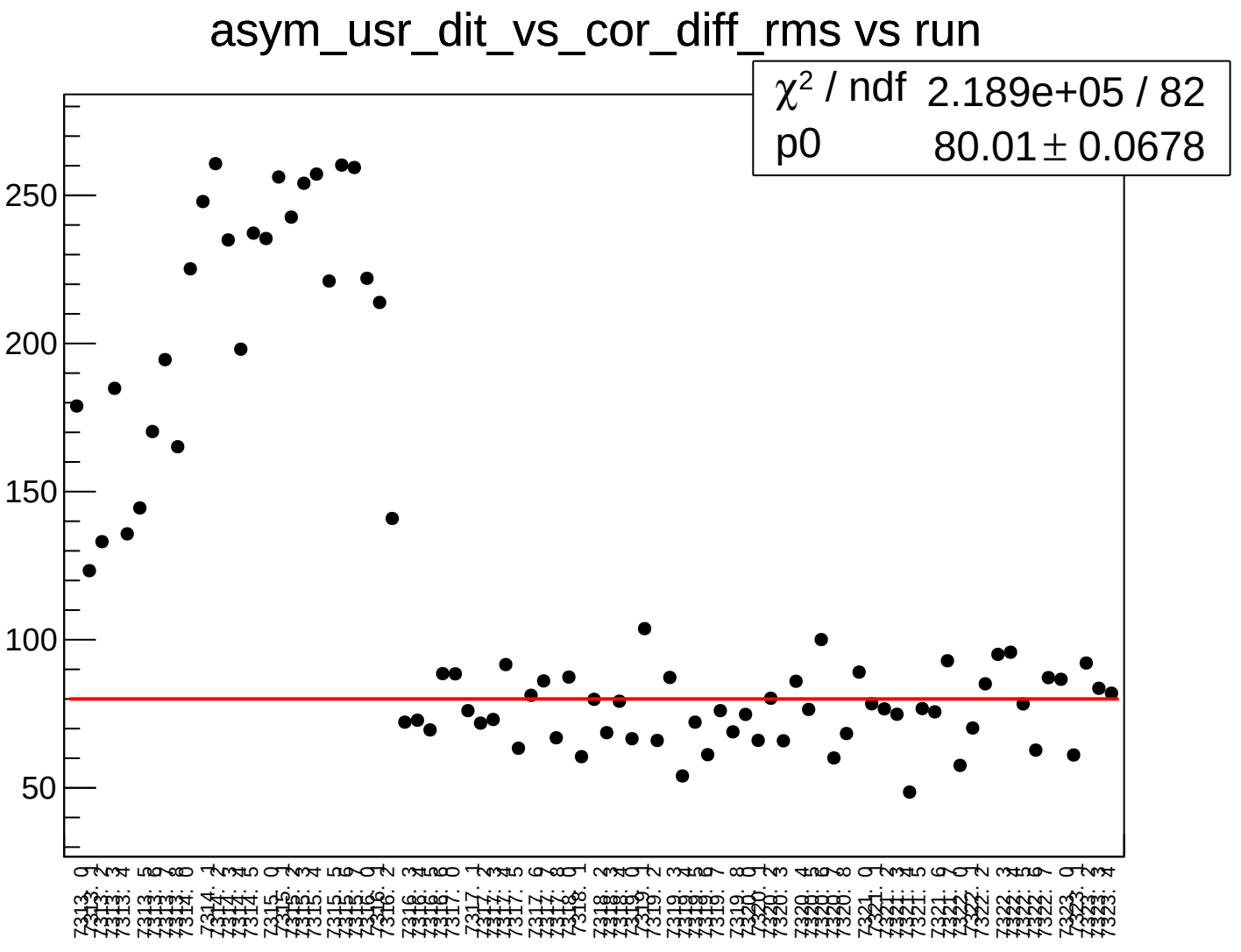

pull1D
Entries 83
Mean −0.0069
Std Dev 1.024

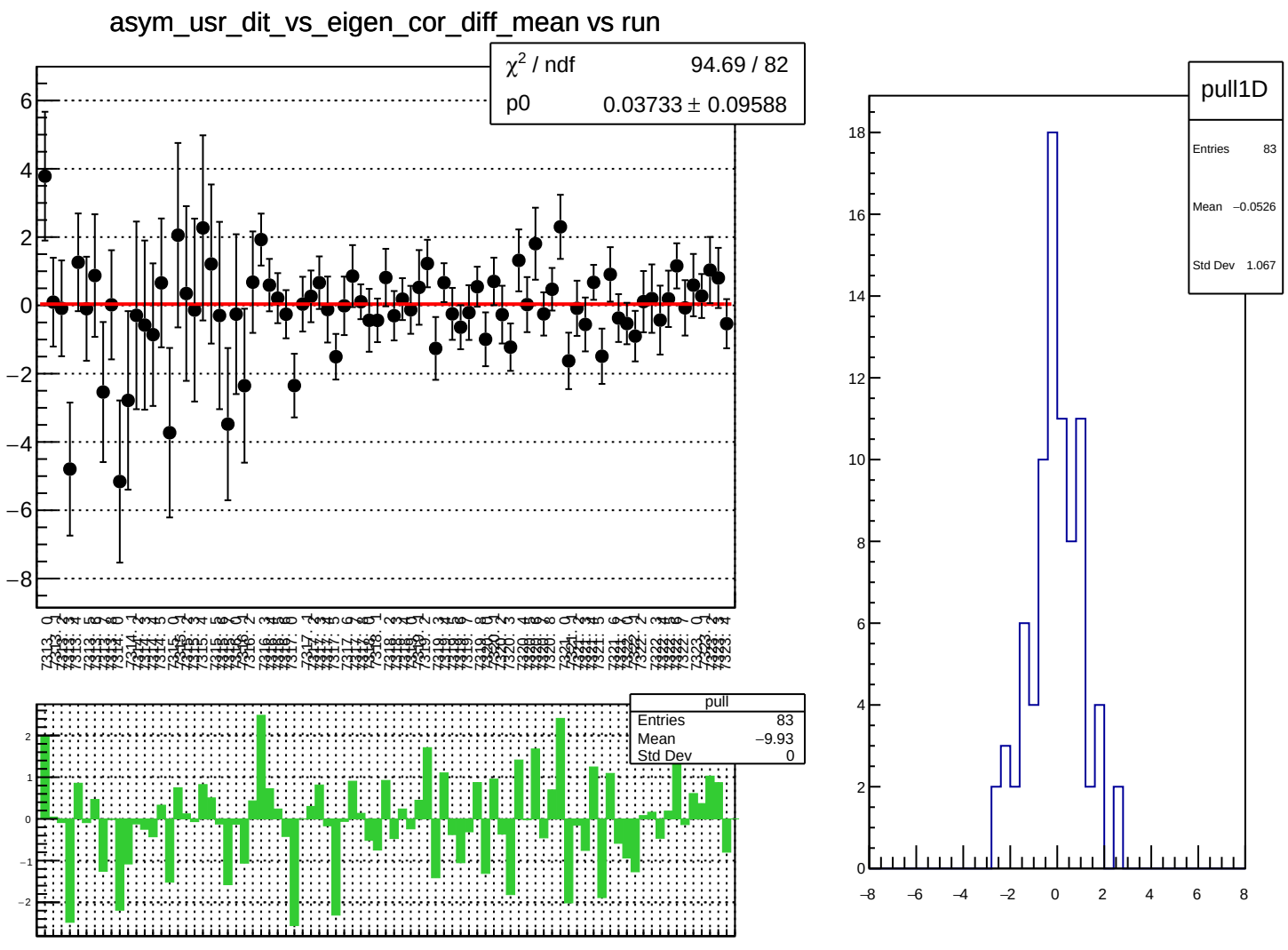

asym_usr_rms vs run
χ² / ndf 1.148e+04 / 82
p0 2385 ± 1.885
3000
2800
2600
2400
2200
2000

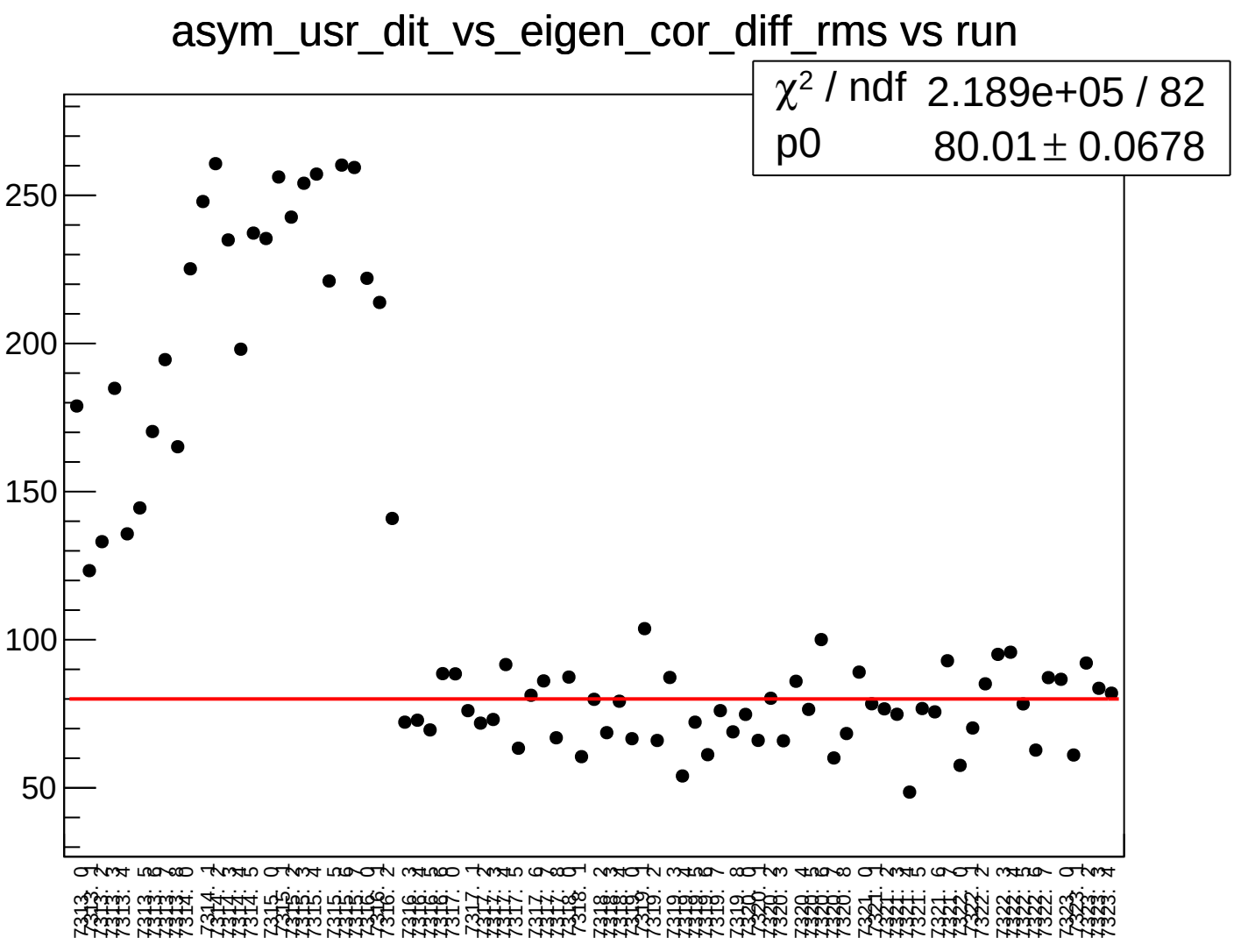

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.59 / 82
p0 −5.34e−15 ± 4.962e−14
pull
Entries 83
Mean 88.92
Std Dev 0
pull1D
Entries 83
Mean 0.07554
Std Dev 1.019

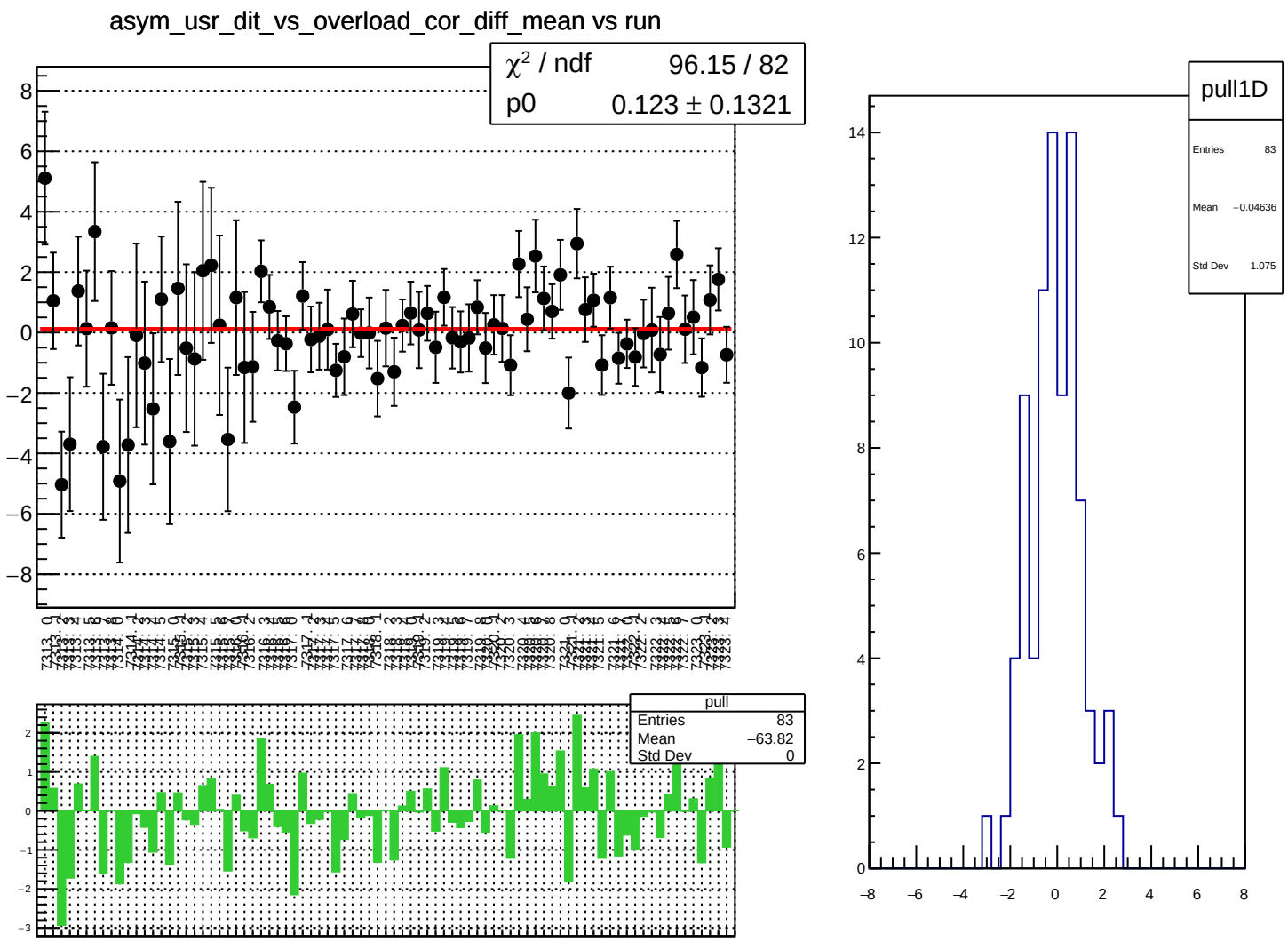

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.703e+05 / 82
p0 3.404e−11 ± 3.508e−14
0.3
0.25
0.2
0.15
0.1
0.05

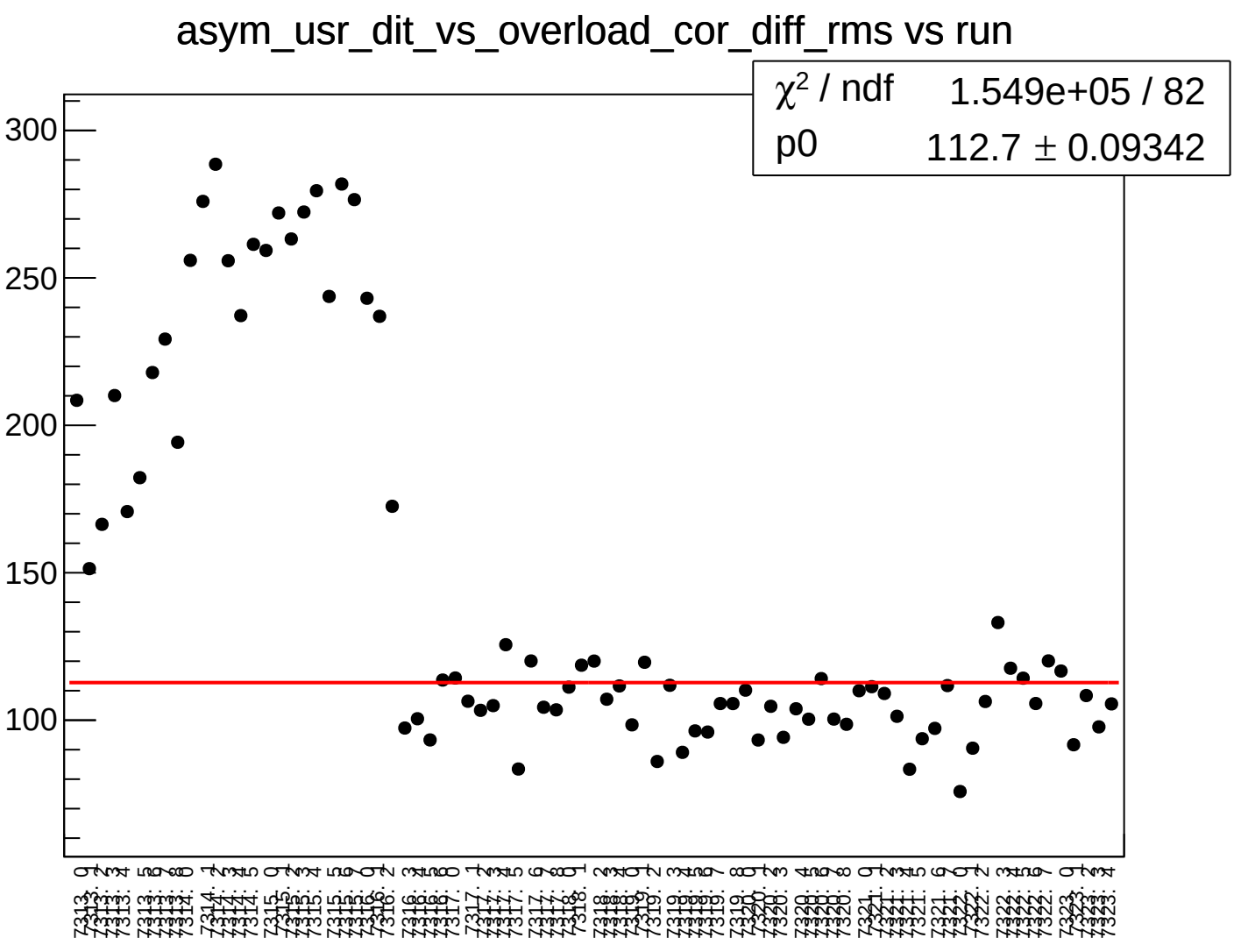

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 94.69 / 82
p0 0.03733 ± 0.09588
pull
Entries 83
Mean −9.93
Std Dev 0
pull1D
Entries 83
Mean −0.0526
Std Dev 1.067

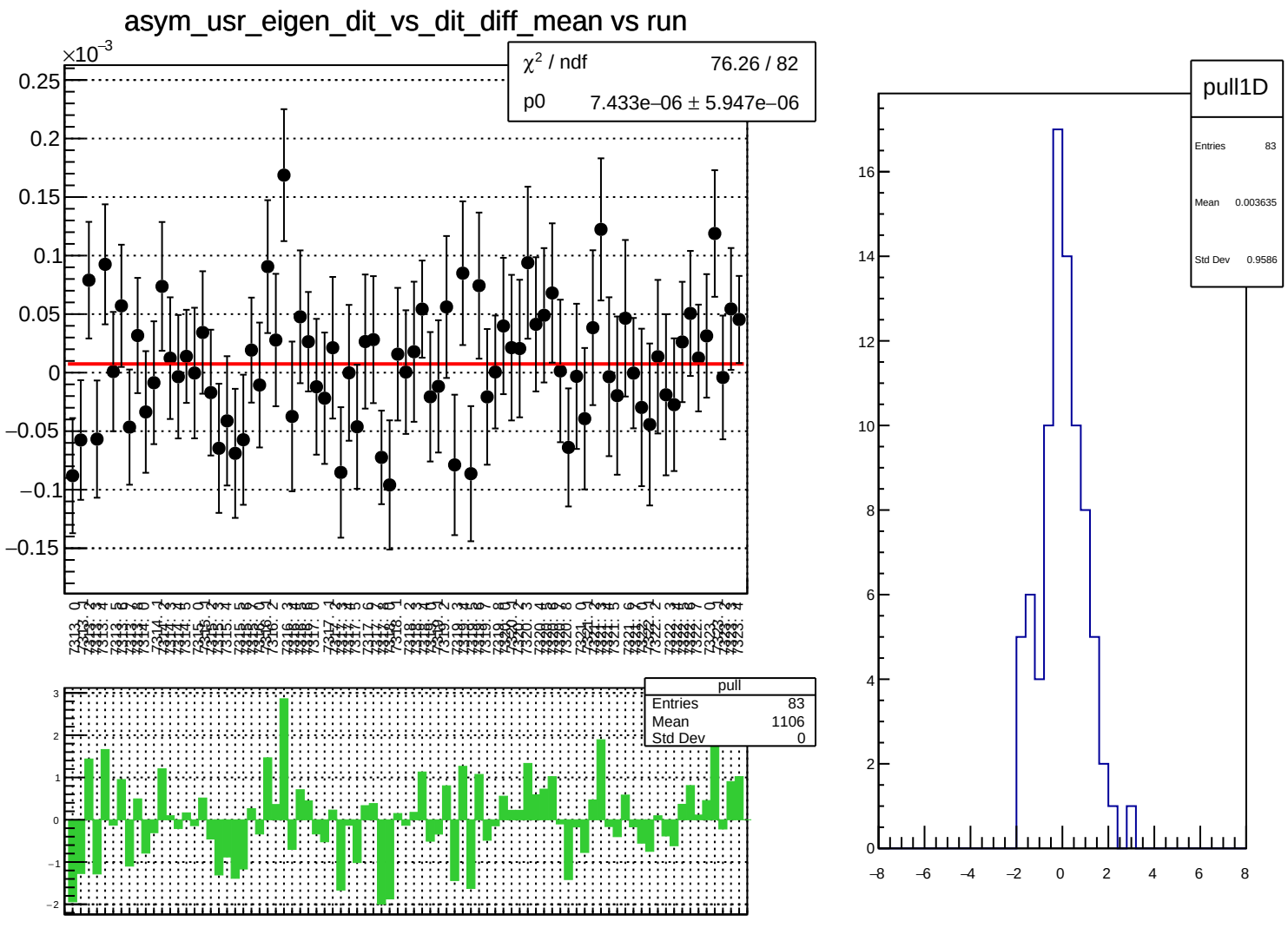

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 2.189e+05 / 82
p0 80.01 ± 0.0678
250
200
150
100
50

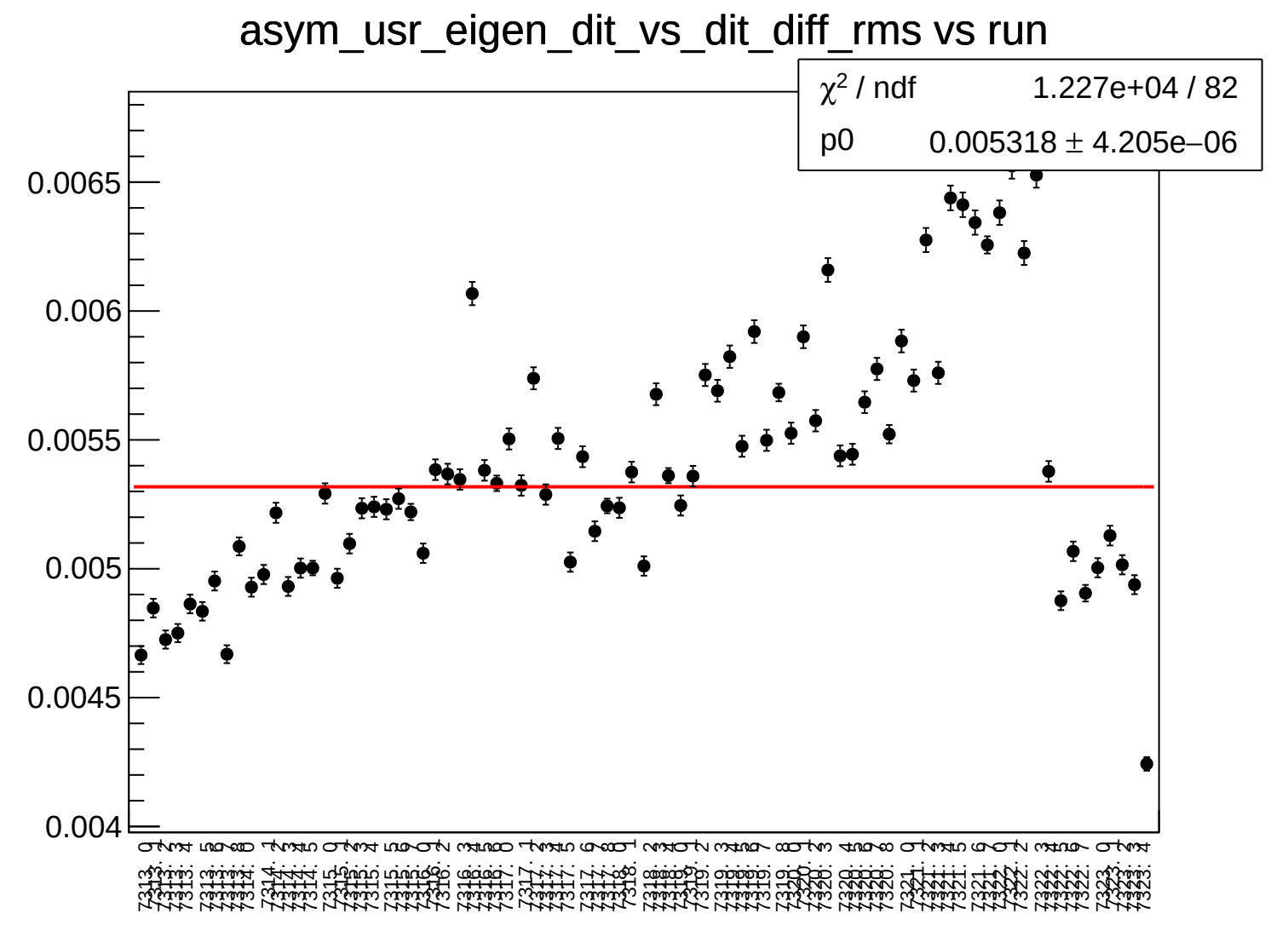

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.69 / 82
p0 0.03733 ± 0.09588
pull
Entries 83
Mean −9.93
Std Dev 0
pull1D
Entries 83
Mean −0.0526
Std Dev 1.067

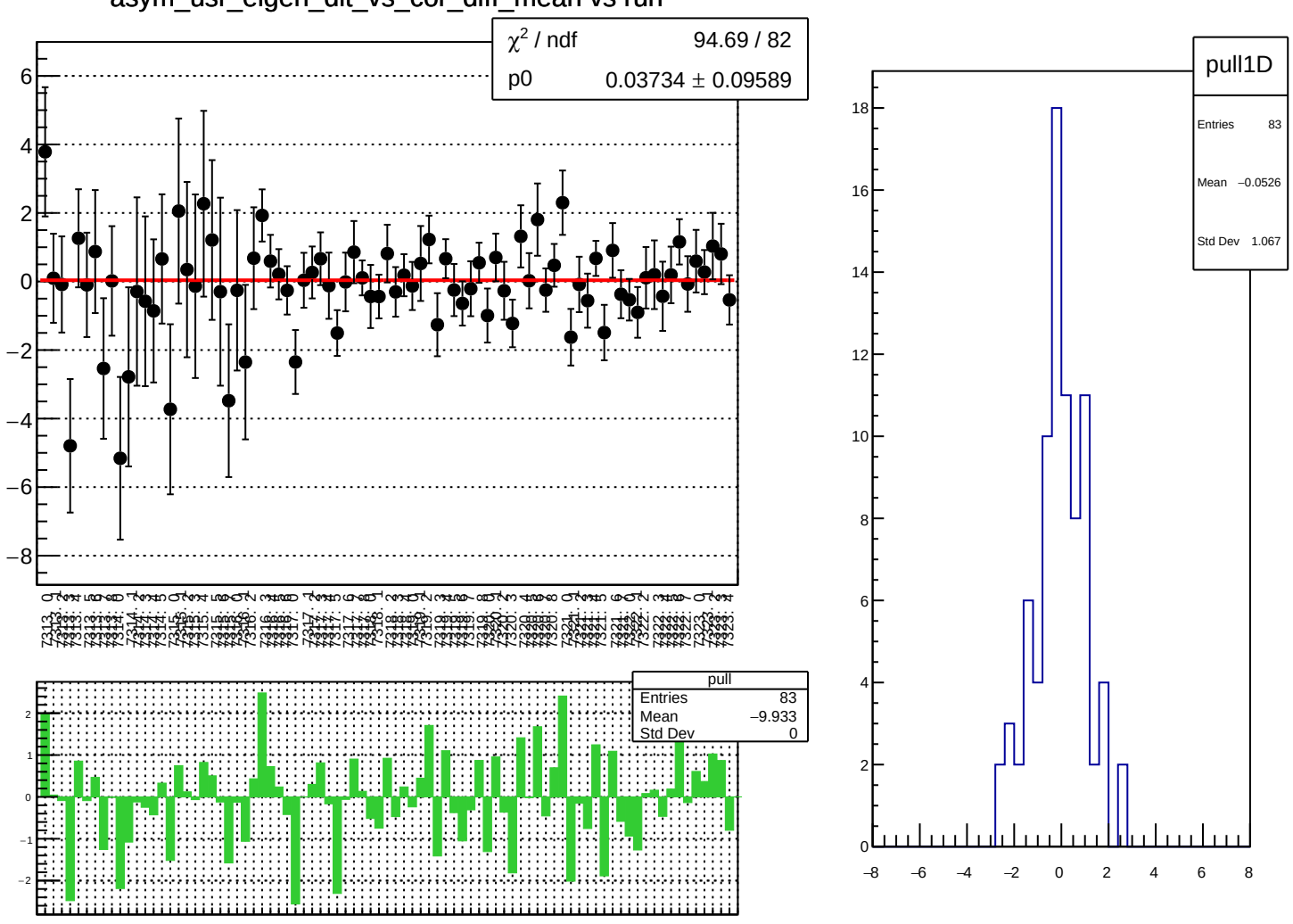

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.189e+05 / 82
p0 80.01 ± 0.0678
250
200
150
100
50

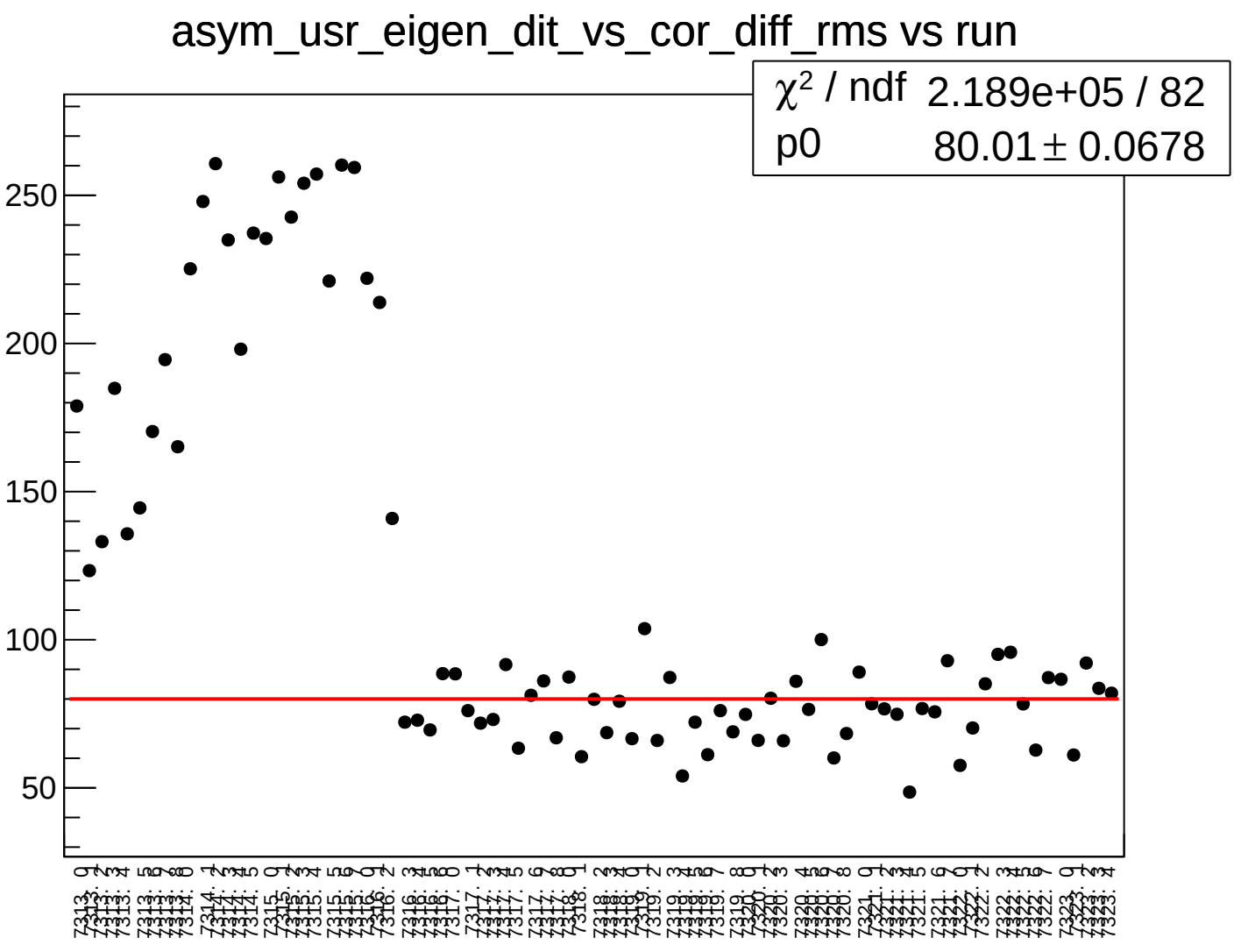

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 96.15 / 82
p0 0.123 ± 0.1321
pull
Entries 83
Mean −63.82
Std Dev 0
pull1D
Entries 83
Mean −0.04636
Std Dev 1.075

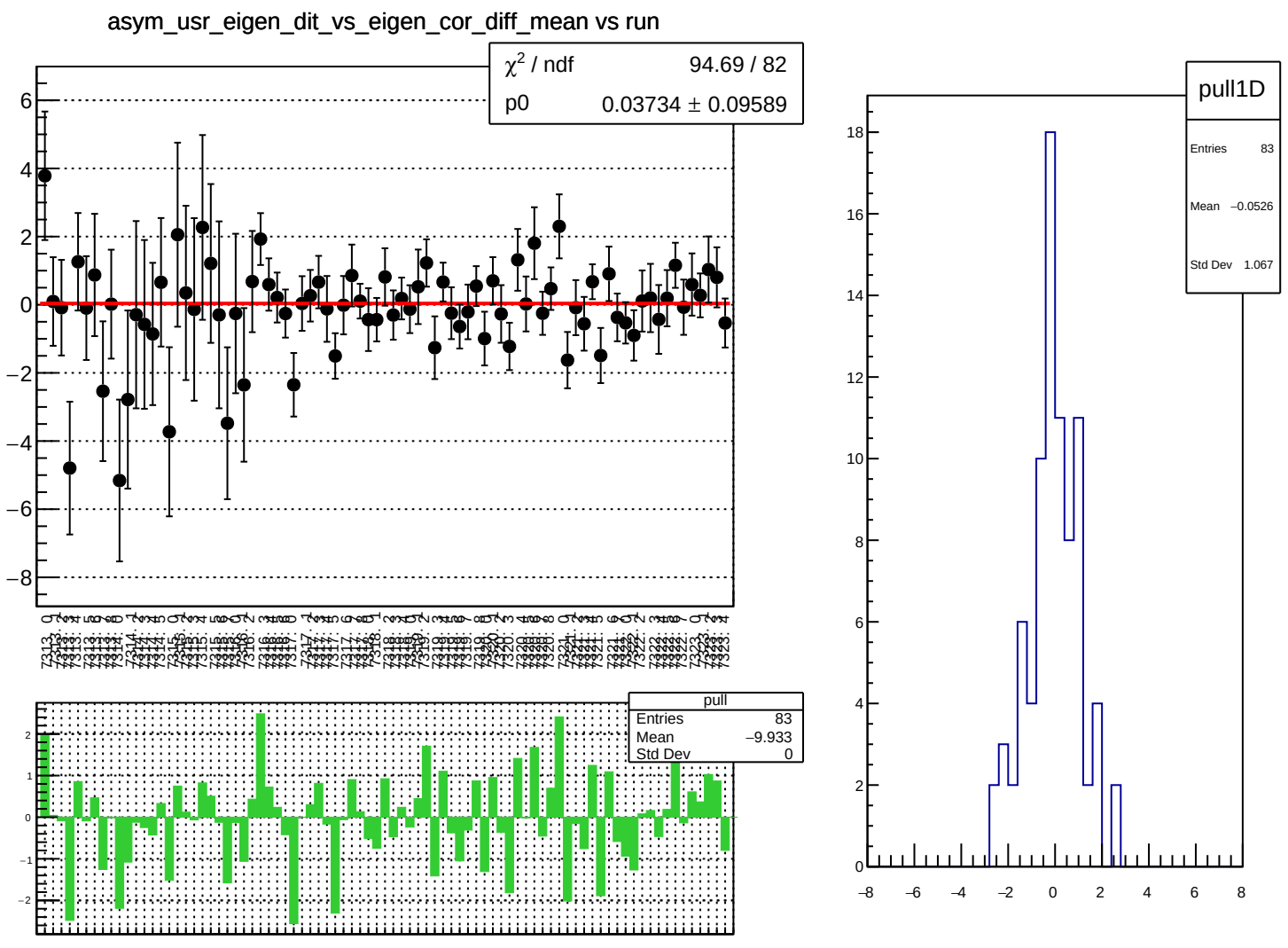

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.549e+05 / 82
p0 112.7 ± 0.09342
300
250
200
150
100

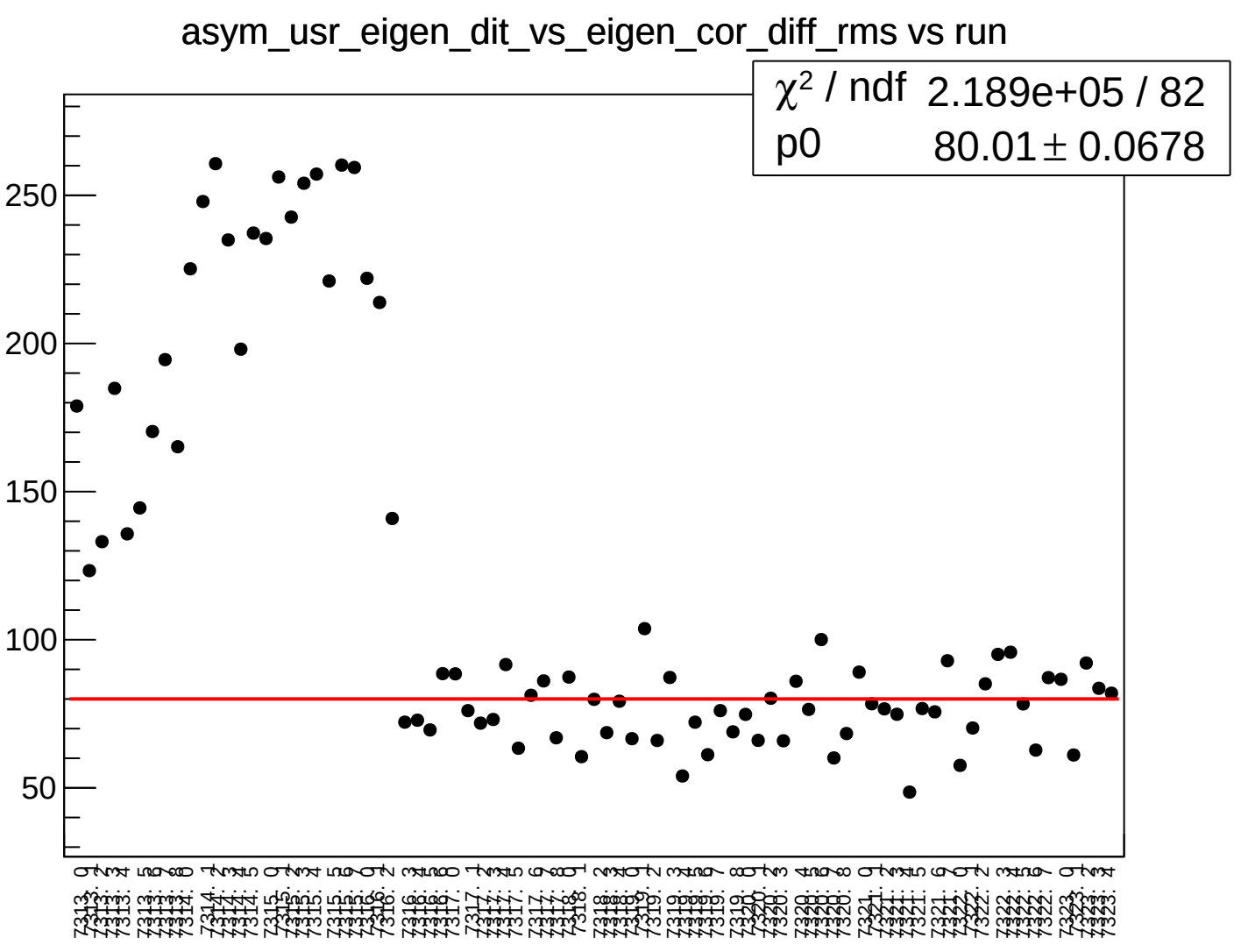

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.26 / 82
p0 7.433e−06 ± 5.947e−06
pull
Entries 83
Mean 1106
Std Dev 0
pull1D
Entries 83
Mean 0.003635
Std Dev 0.9586

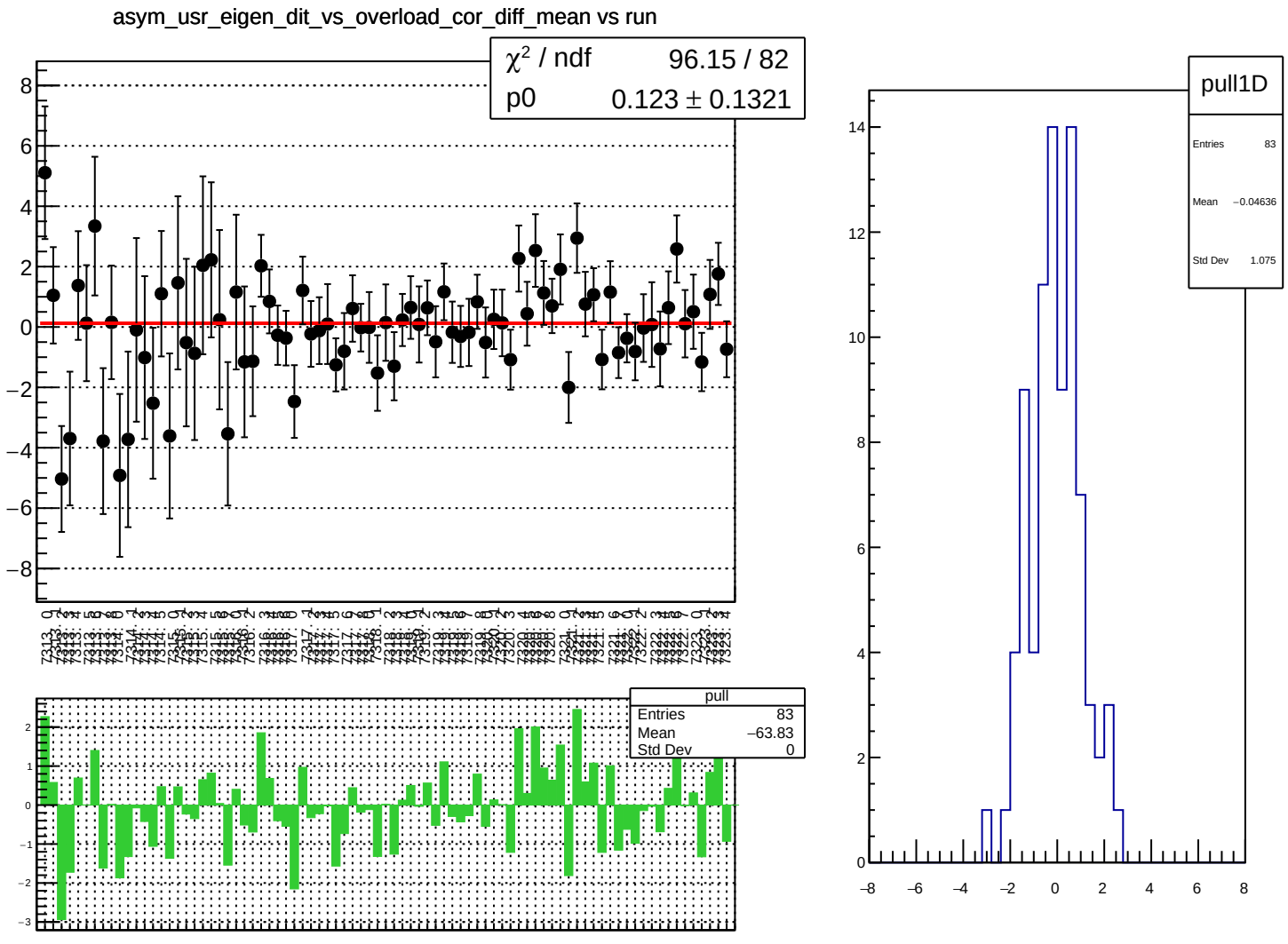

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.227e+04 / 82
p0 0.005318 ± 4.205e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

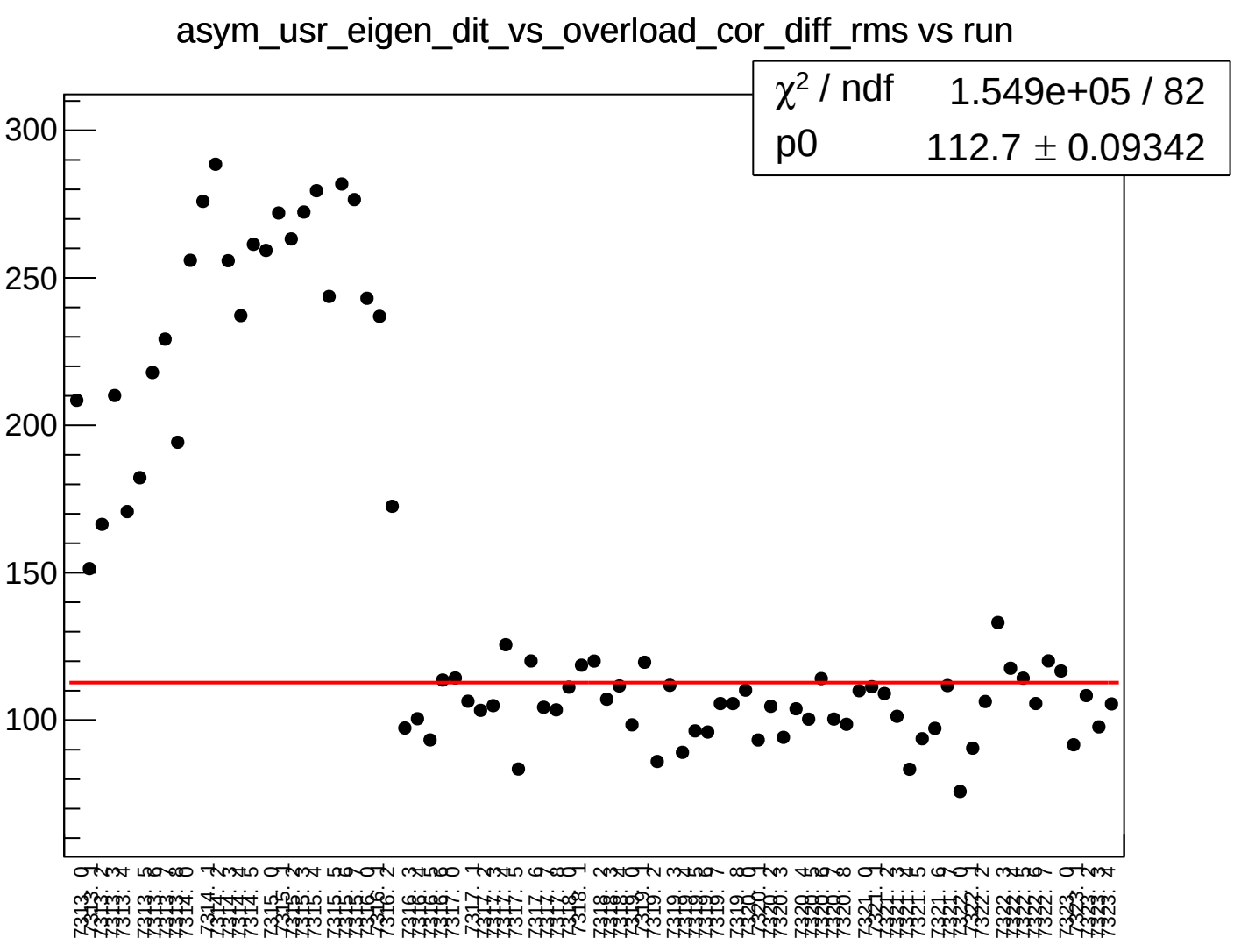

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.69 / 82
p0 0.03734 ± 0.09589
pull
Entries 83
Mean −9.933
Std Dev 0
pull1D
Entries 83
Mean −0.0526
Std Dev 1.067

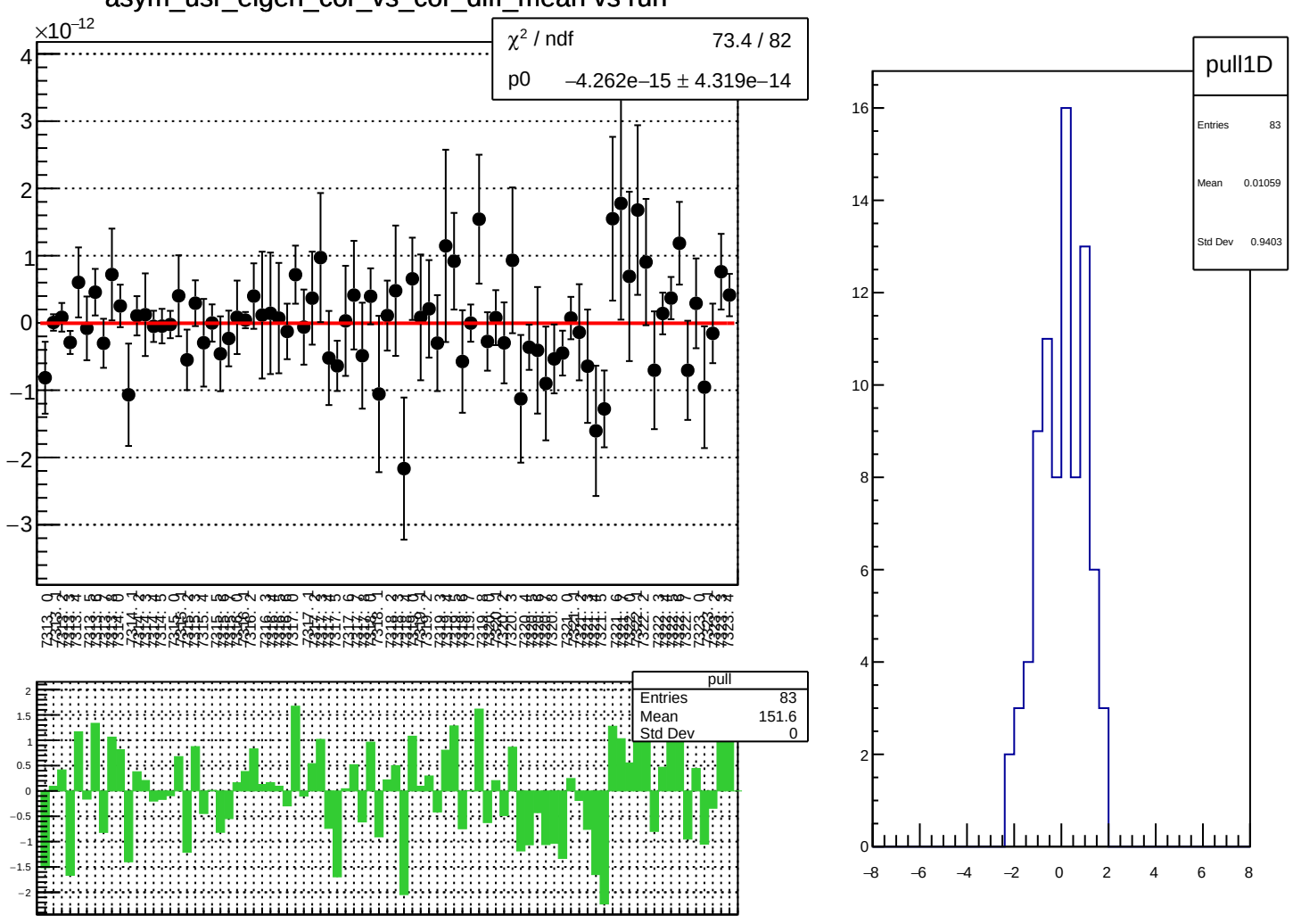

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.189e+05 / 82
p0 80.01 ± 0.0678
250
200
150
100
50

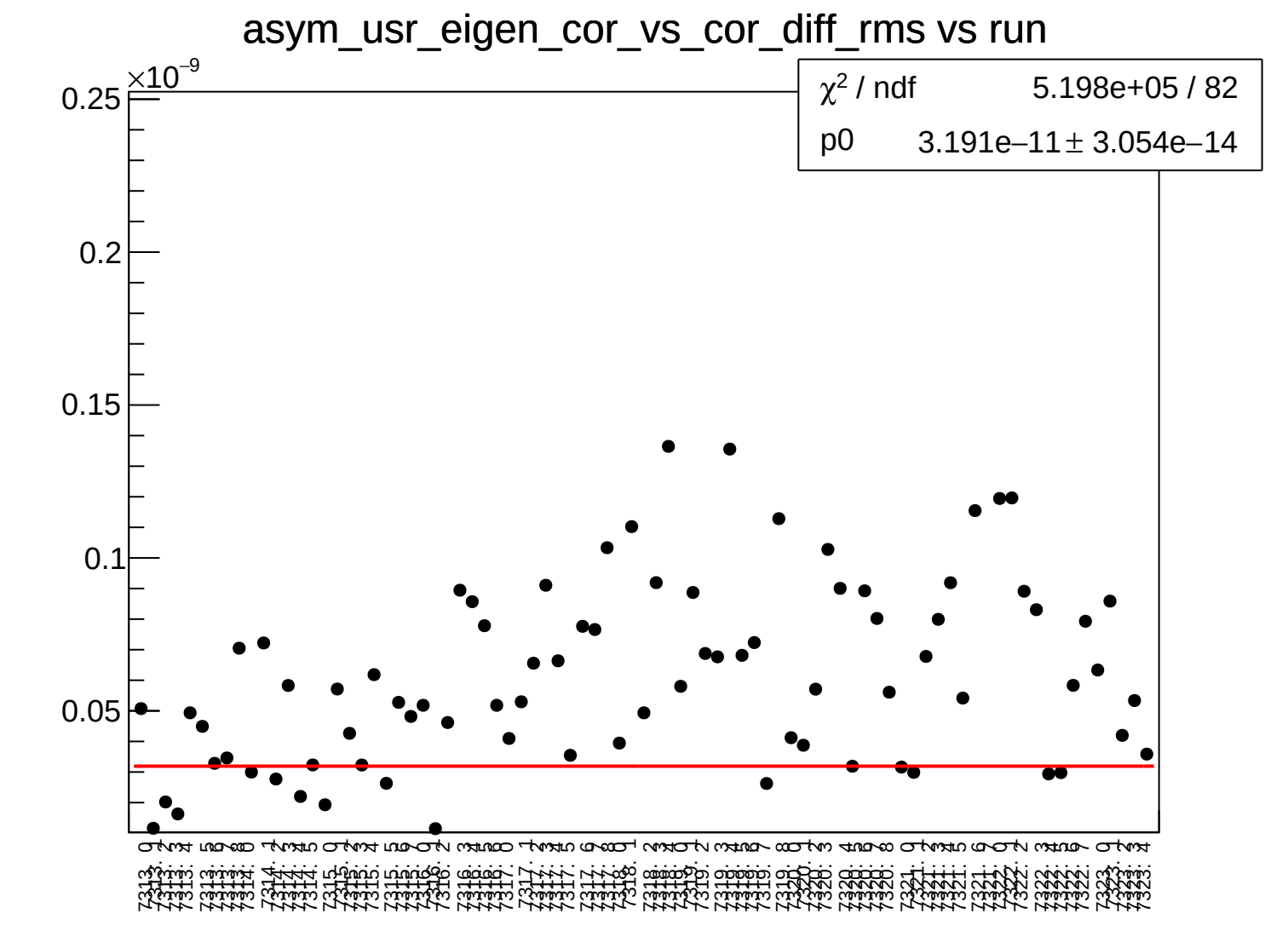

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.69 / 82
p0 0.03734 ± 0.09589
pull
Entries 83
Mean −9.933
Std Dev 0
pull1D
Entries 83
Mean −0.0526
Std Dev 1.067

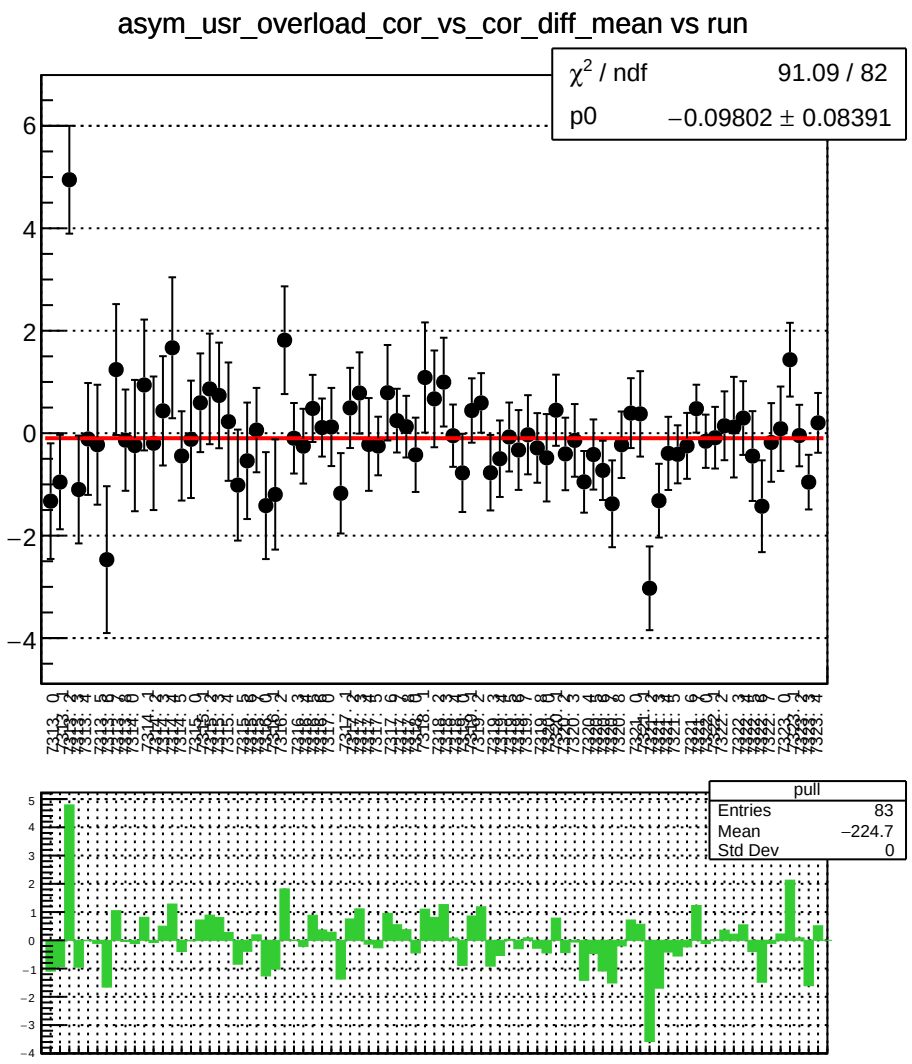

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.189e+05 / 82
p0 80.01 ± 0.0678
250
200
150
100
50

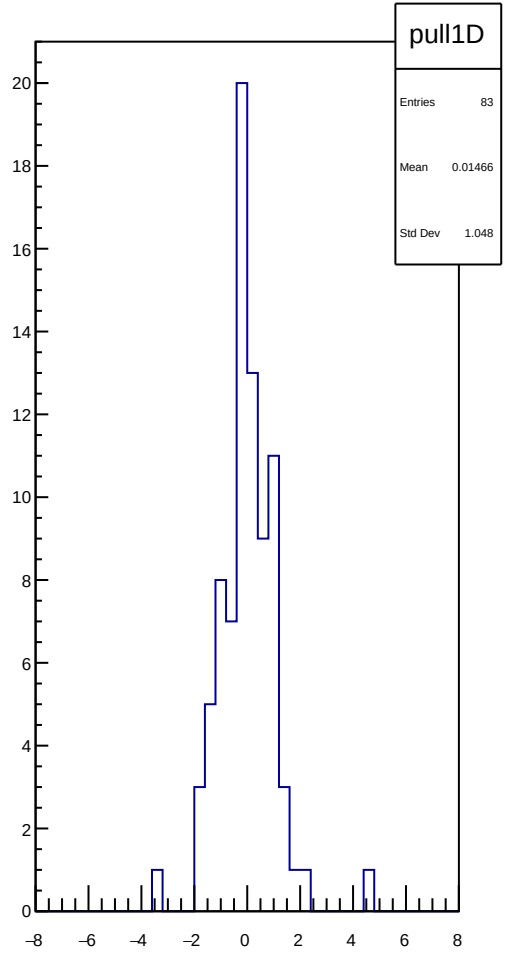

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 96.15 / 82
p0 0.123 ± 0.1321
pull
Entries 83
Mean −63.83
Std Dev 0
pull1D
Entries 83
Mean −0.04636
Std Dev 1.075

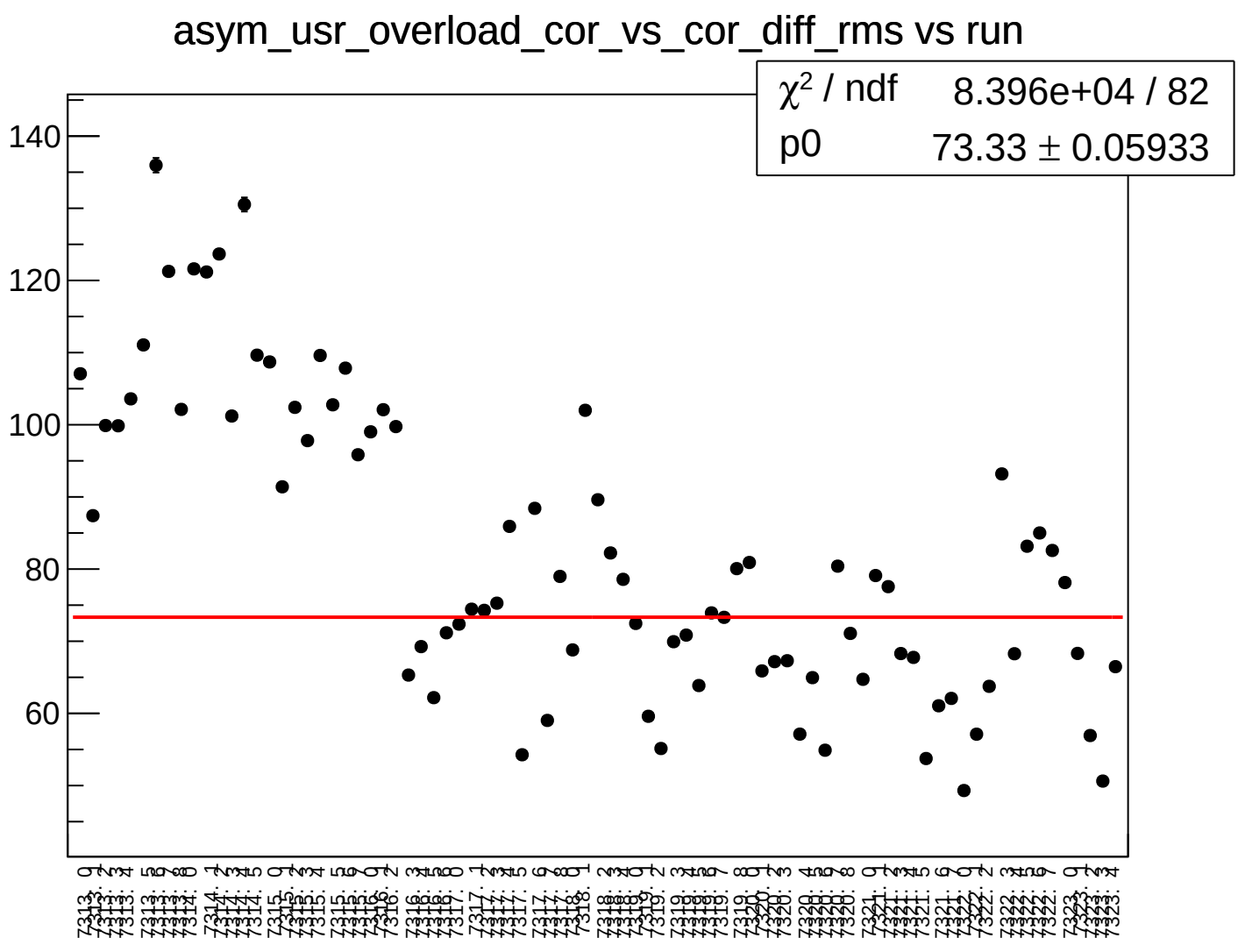

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.549e+05 / 82
p0 112.7 ± 0.09342
300
250
200
150
100

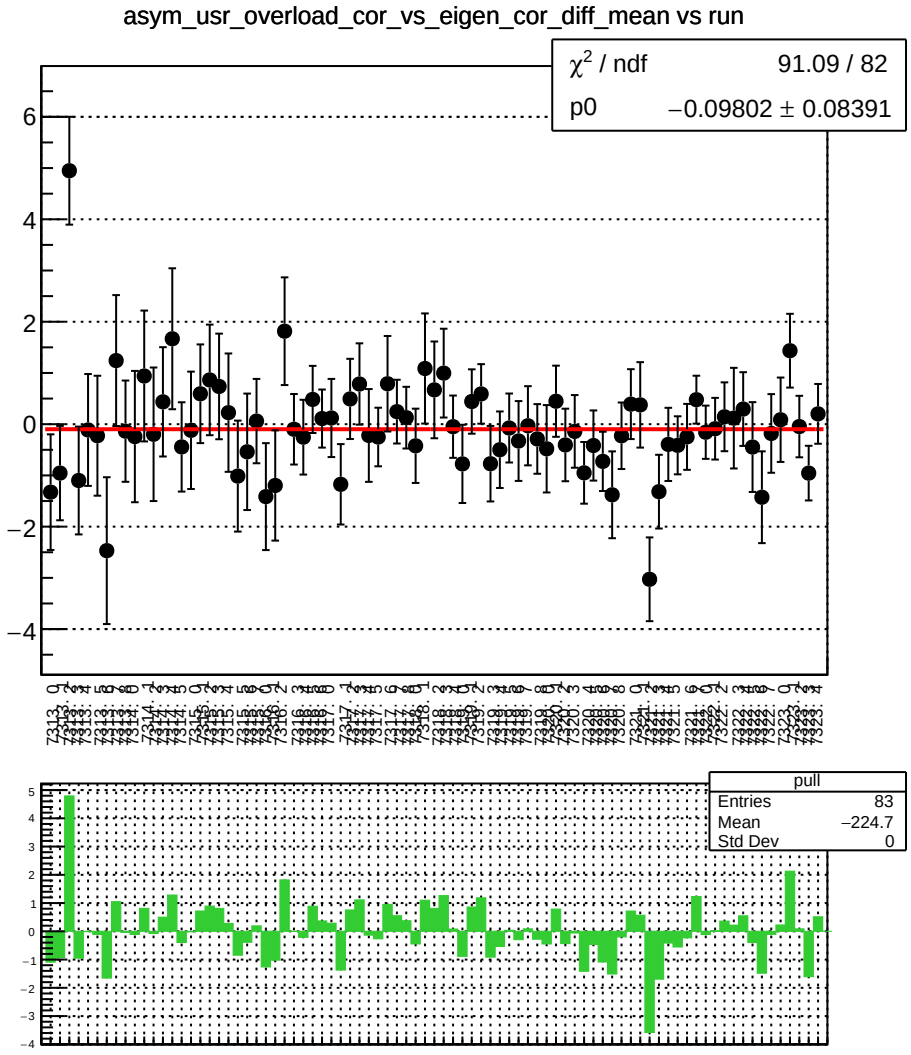

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.4 / 82
p0 −4.262e−15 ± 4.319e−14
pull
Entries 83
Mean 151.6
Std Dev 0
pull1D
Entries 83
Mean 0.01059
Std Dev 0.9403

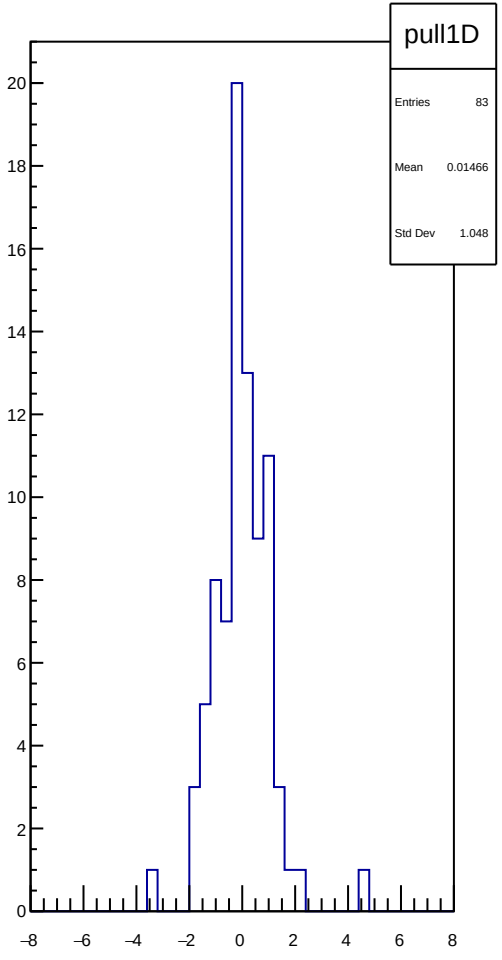

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.198e+05 / 82
p0 3.191e−11 ± 3.054e−14

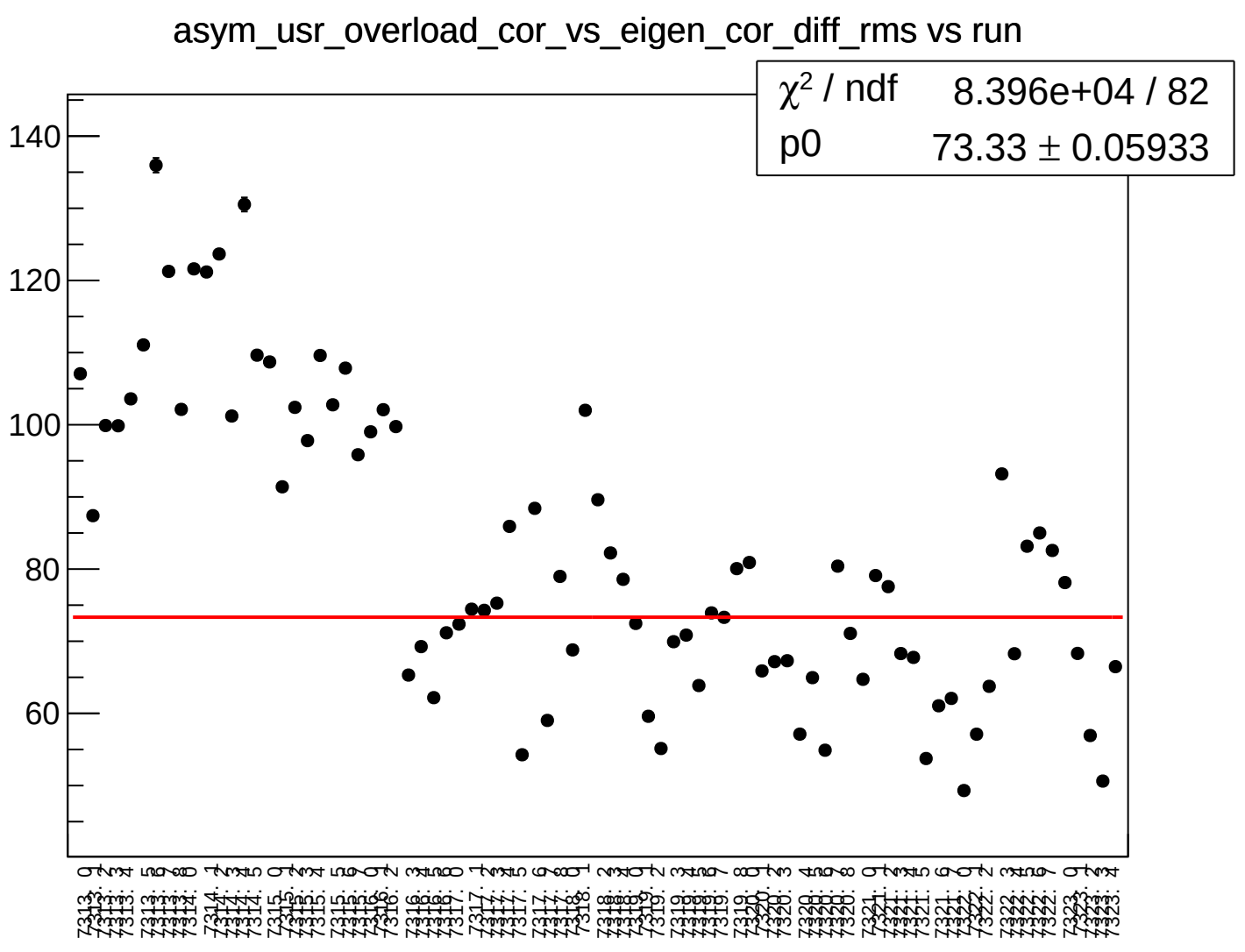

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 91.09 / 82
p0 −0.09802 ± 0.08391
pull
Entries 83
Mean −224.7
Std Dev 0

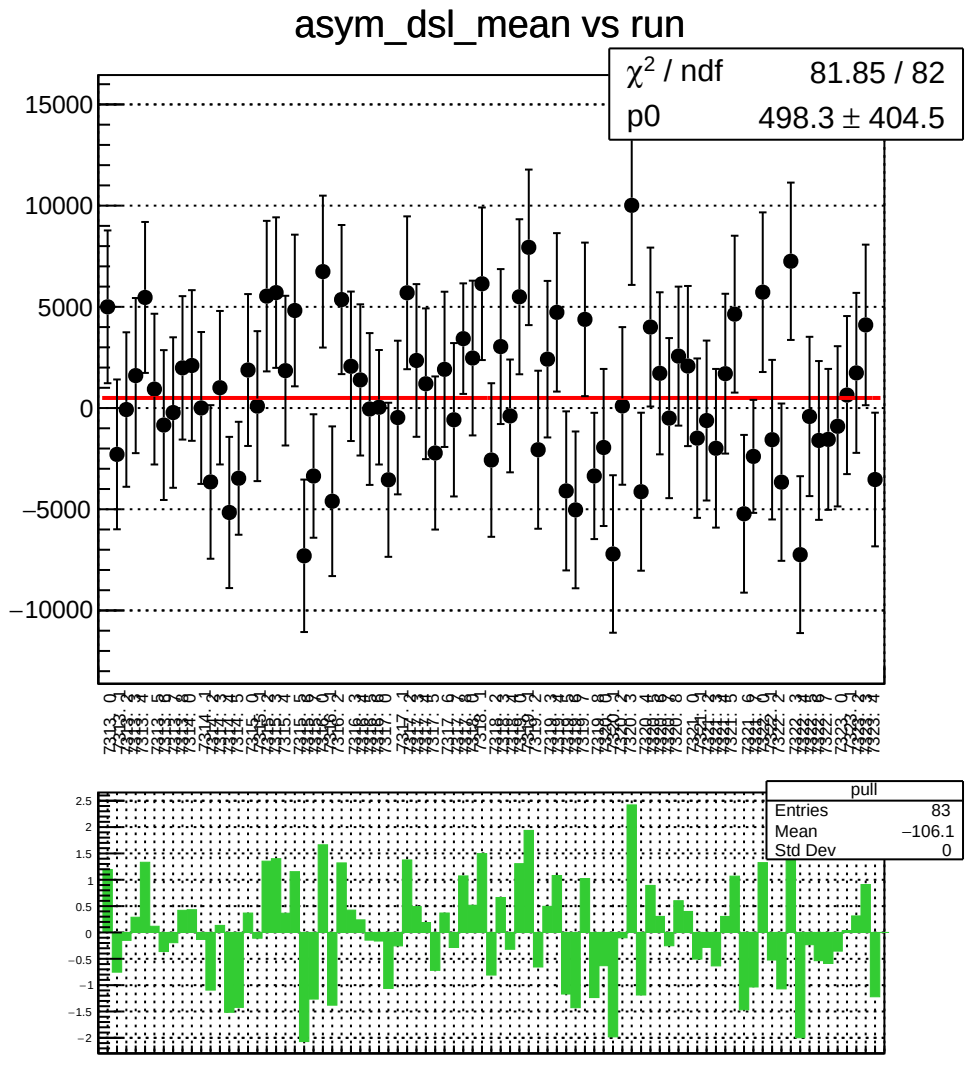

pull1D
Entries 83
Mean 0.01466
Std Dev 1.048

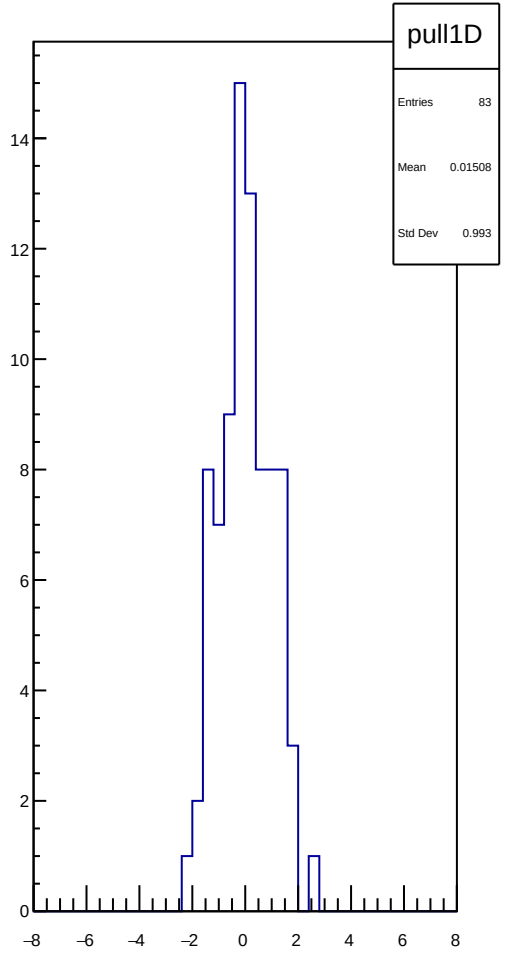

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 8.396e+04 / 82
p0 73.33 ± 0.05933
140
120
100
80
60

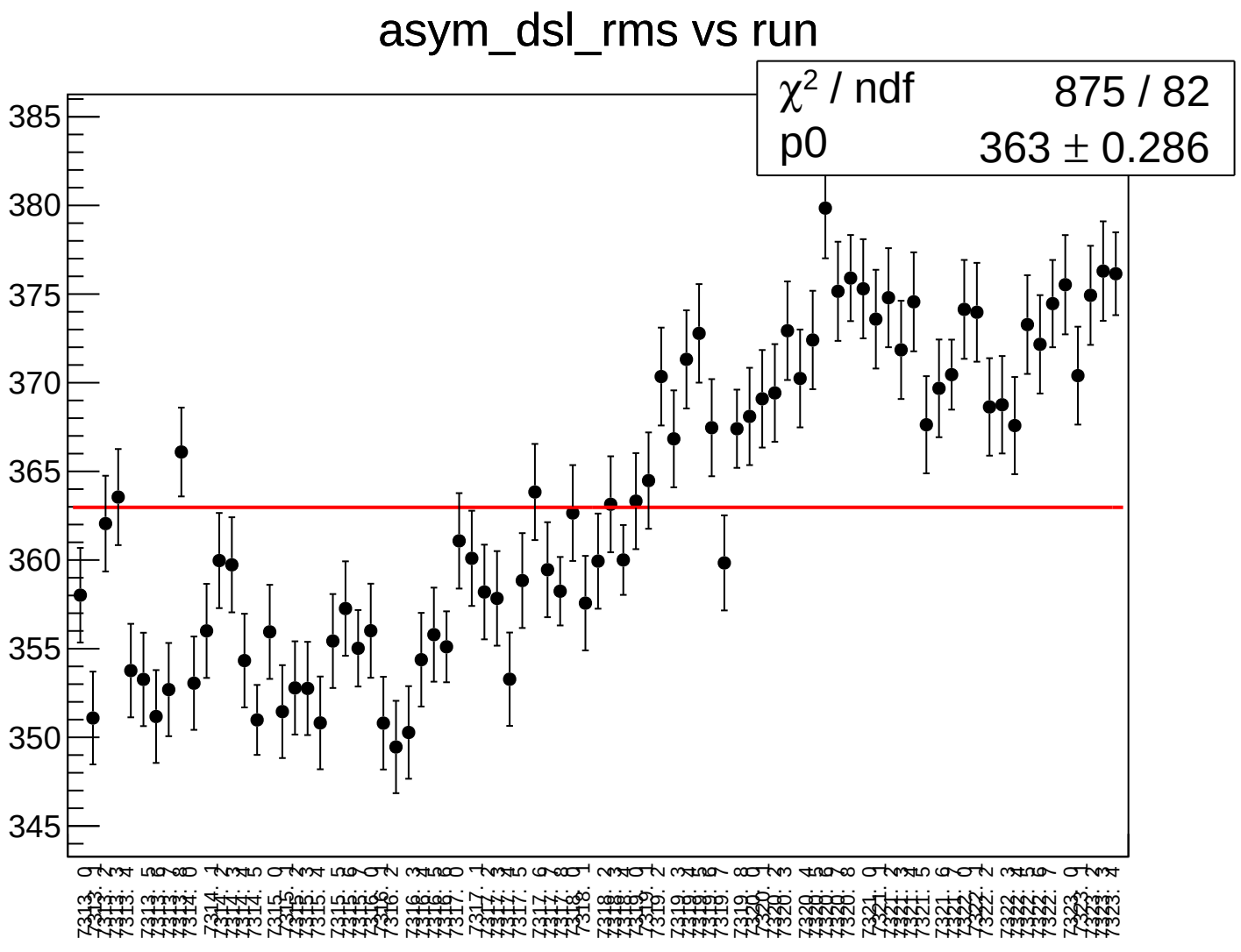

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.09 / 82
p0 −0.09802 ± 0.08391
pull
Entries 83
Mean −224.7
Std Dev 0

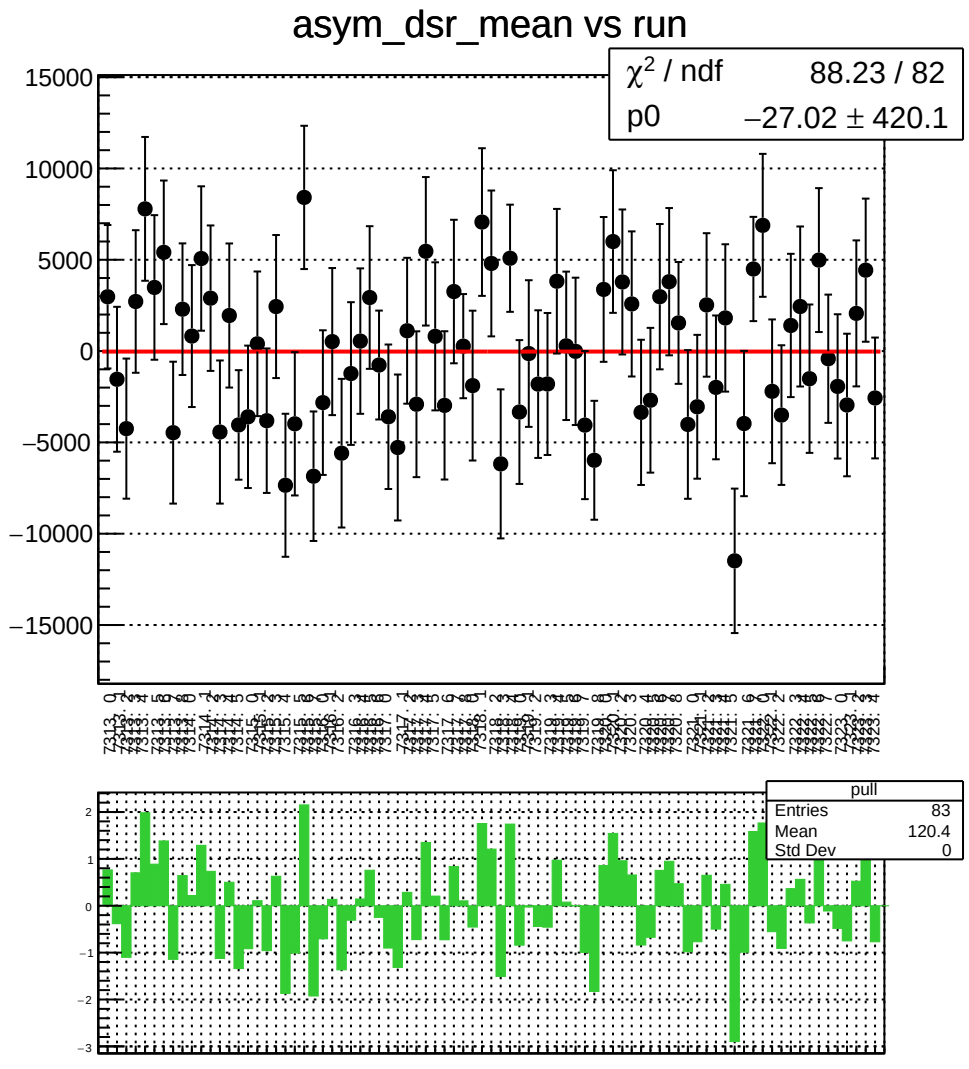

pull1D
Entries 83
Mean 0.01466
Std Dev 1.048

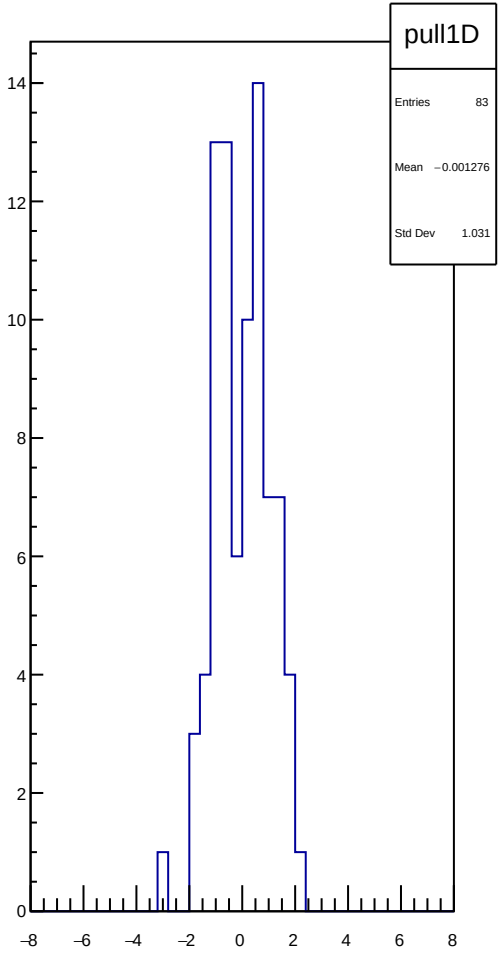

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.396e+04 / 82
p0 73.33 ± 0.05933
140
120
100
80
60

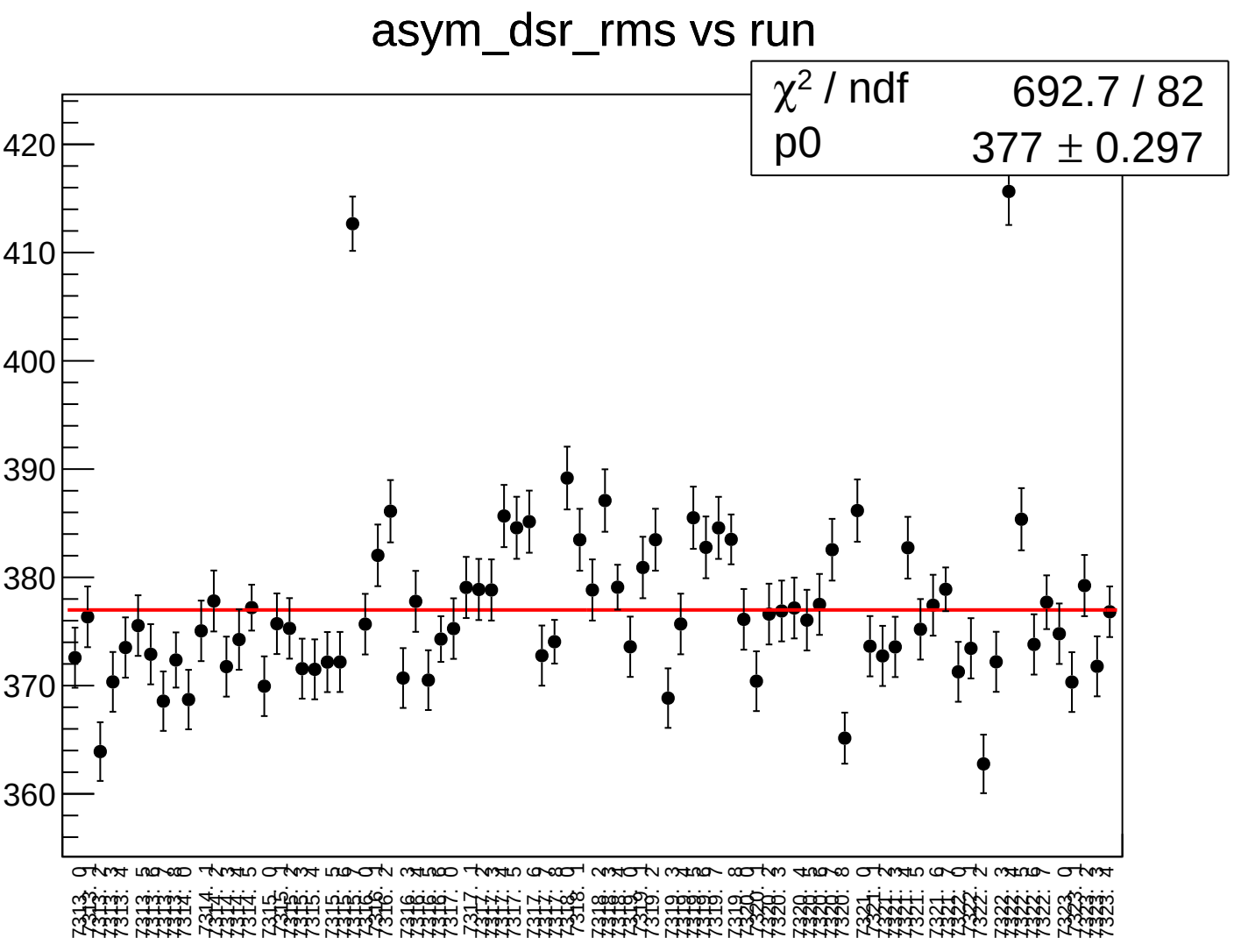

asym_dsl_mean vs run
χ² / ndf 81.85 / 82
p0 498.3 ± 404.5
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −106.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

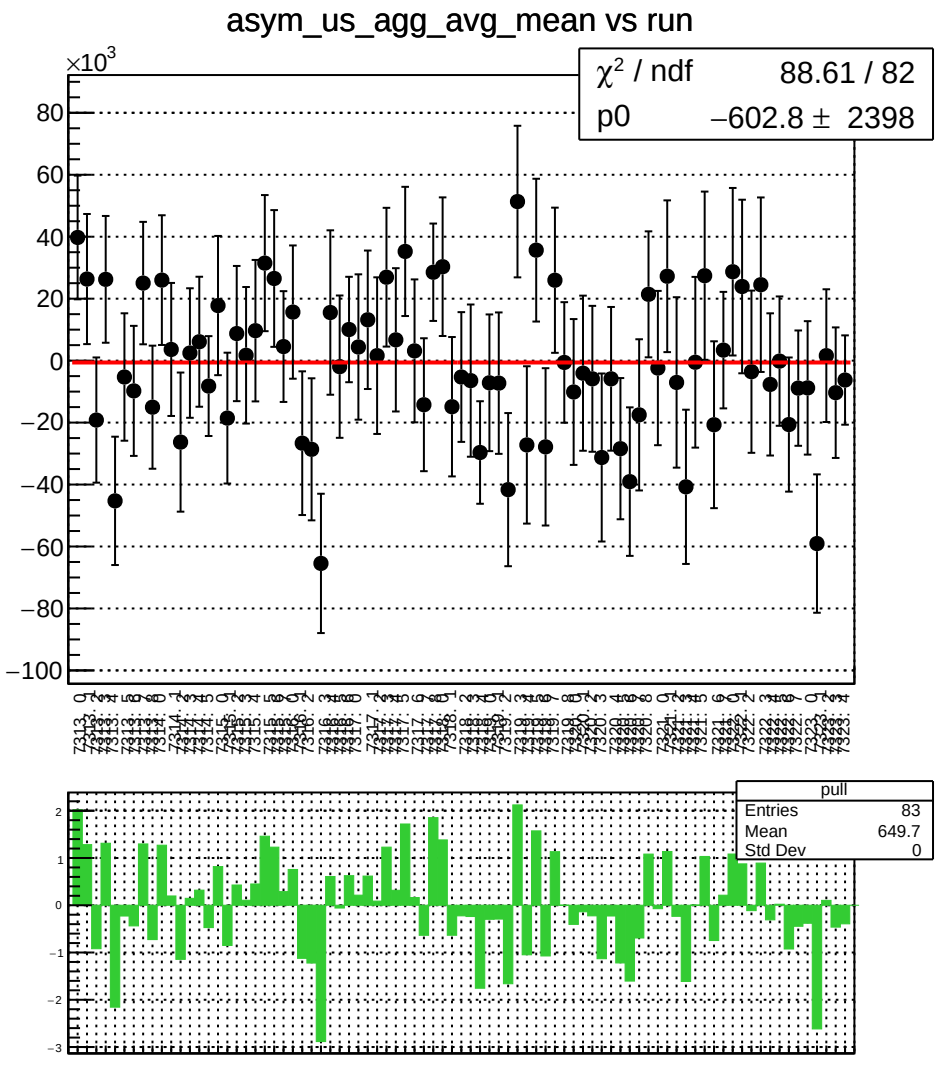

pull1D
Entries 83
Mean 0.01508
Std Dev 0.993
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

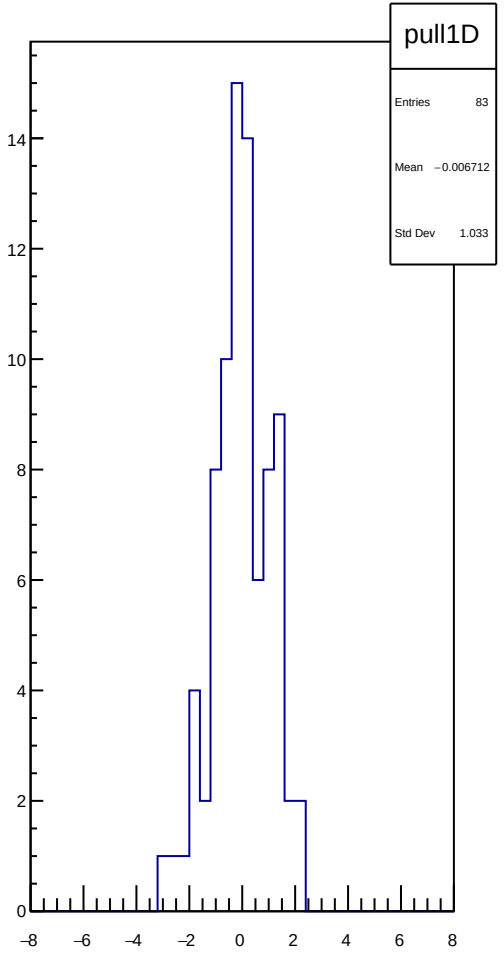

asym_dsl_rms vs run
χ² / ndf 875 / 82
p0 363 ± 0.286
385
380
375
370
365
360
355
350
345

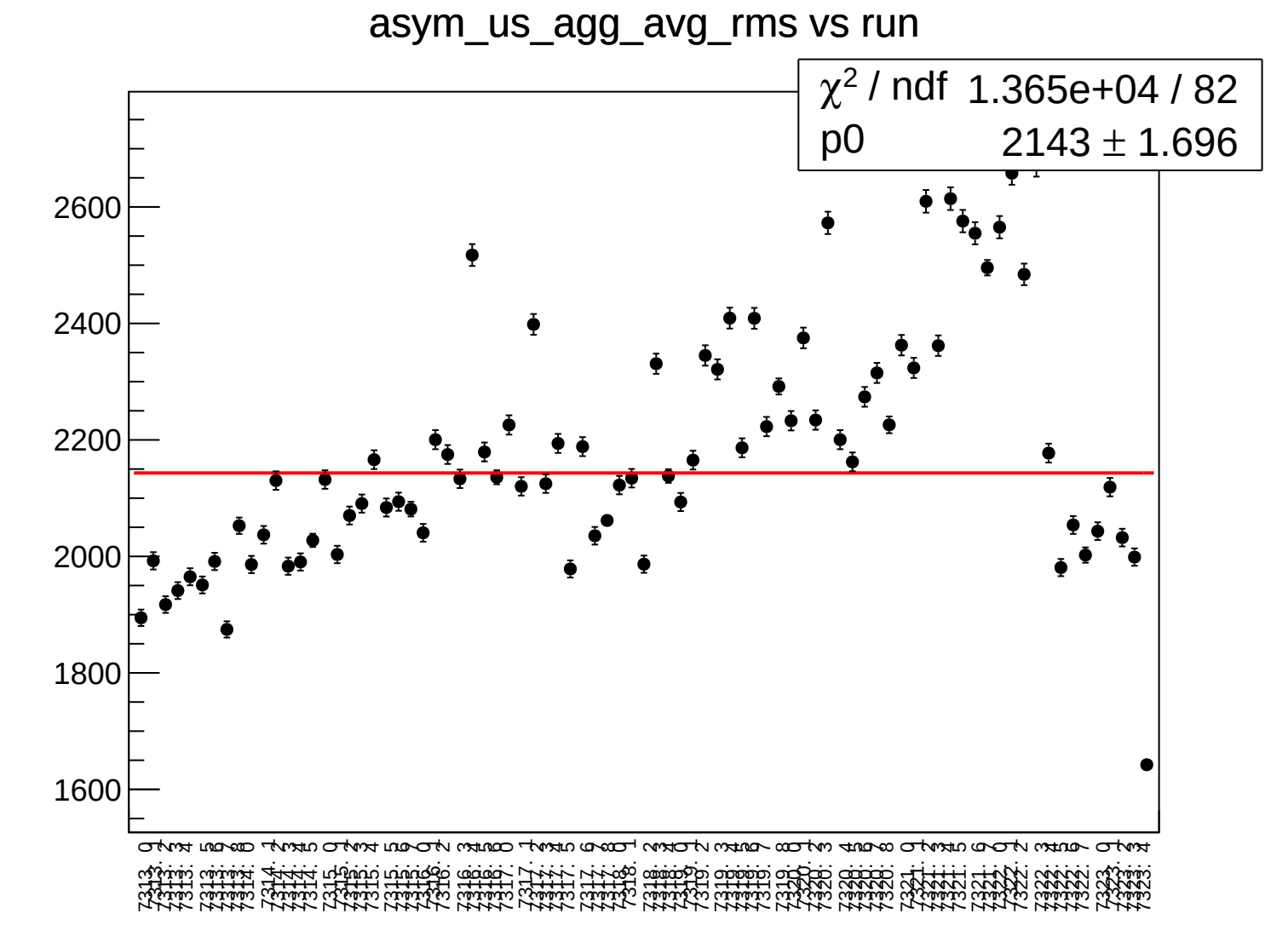

asym_dsr_mean vs run
χ² / ndf 88.23 / 82
p0 −27.02 ± 420.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 120.4
Std Dev 0
2
1
0
−1
−2
−3

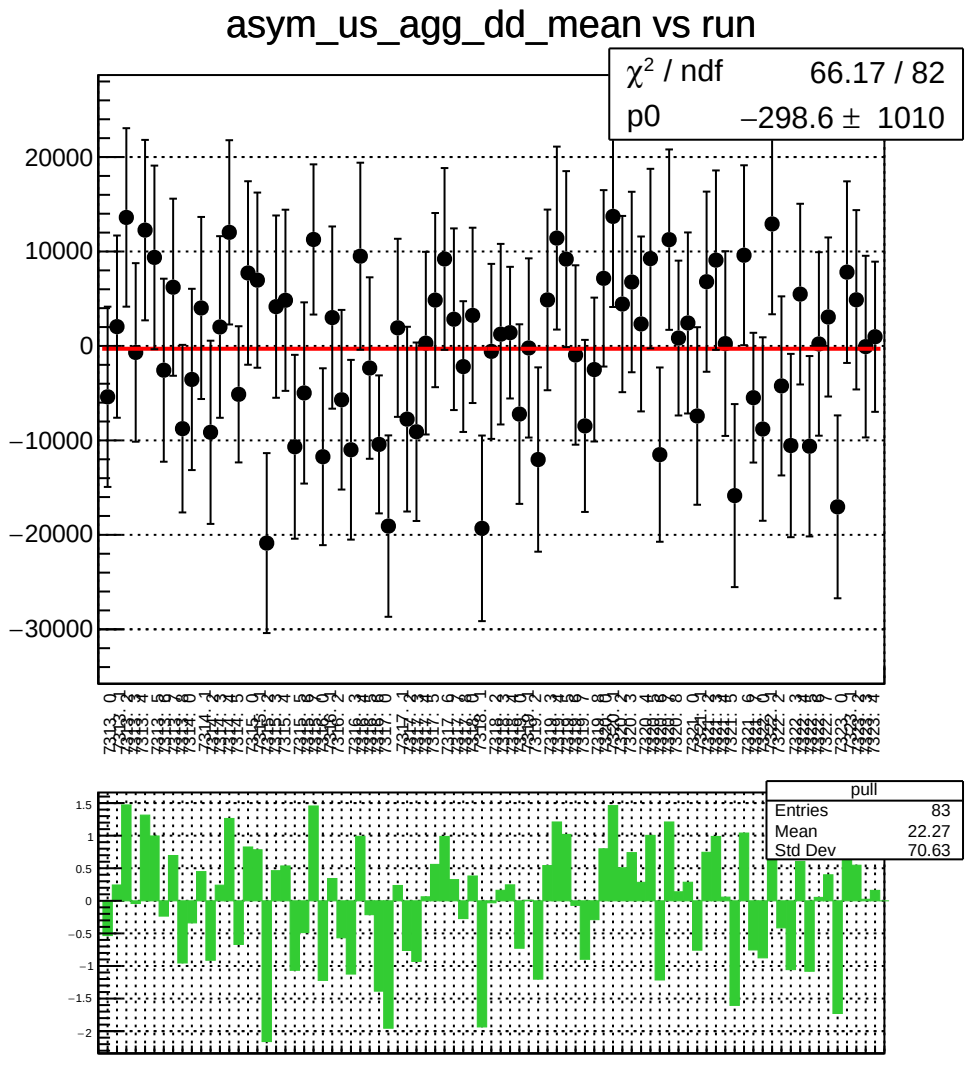

pull1D
Entries 83
Mean −0.001276
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

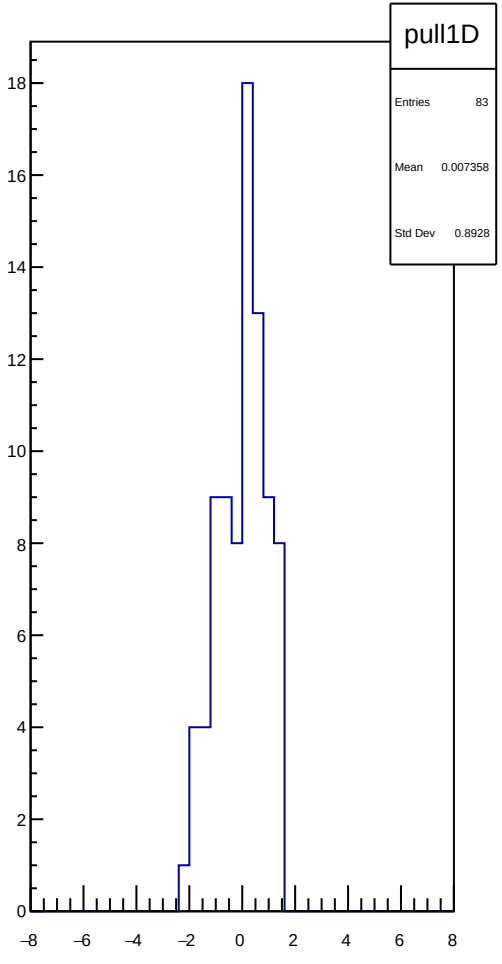

asym_dsr_rms vs run
χ² / ndf 692.7 / 82
p0 377 ± 0.297
420
410
400
390
380
370
360

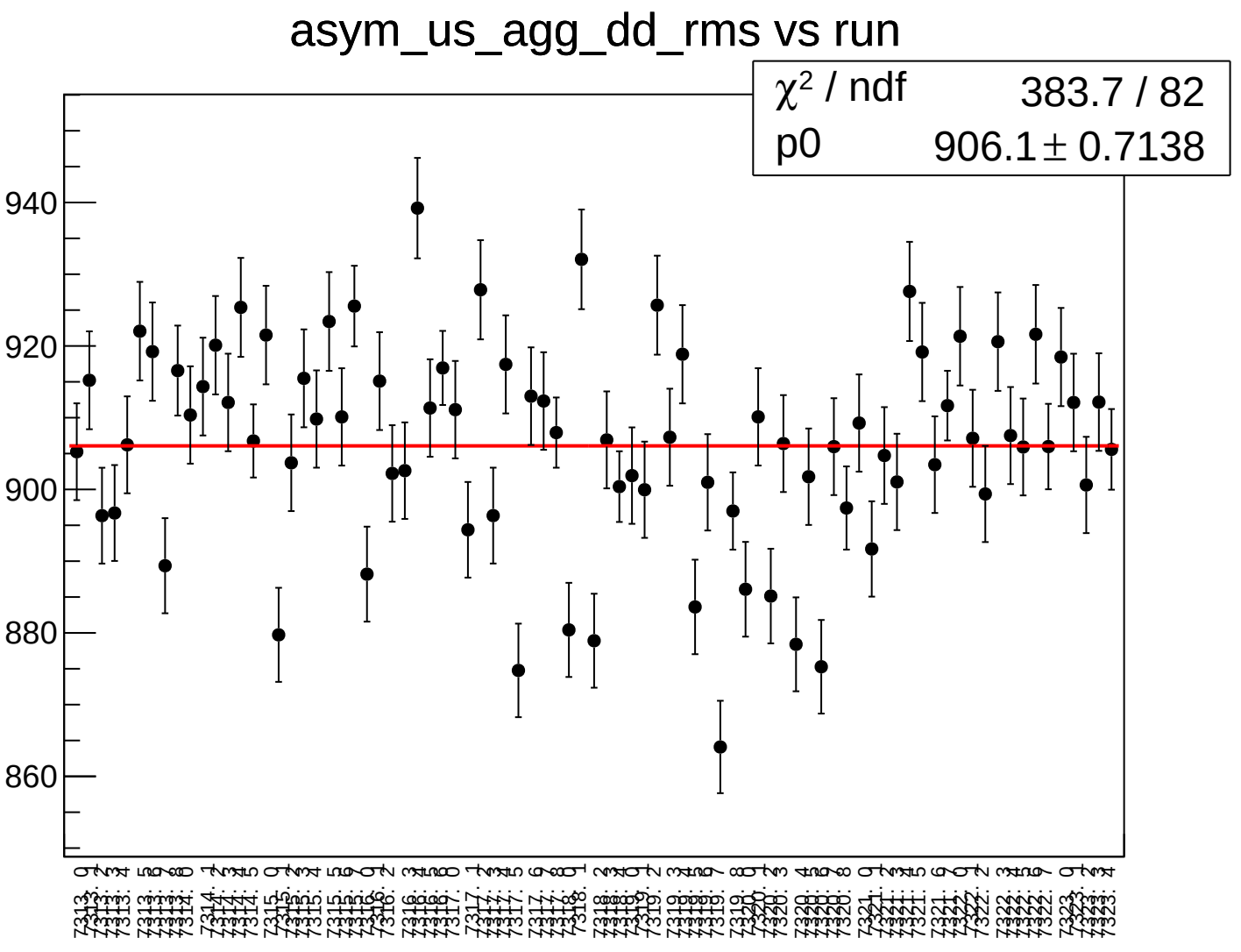

asym_us_agg_avg_mean vs run
×10^3
χ² / ndf 88.61 / 82
p0 −602.8 ± 2398
pull
Entries 83
Mean 649.7
Std Dev 0

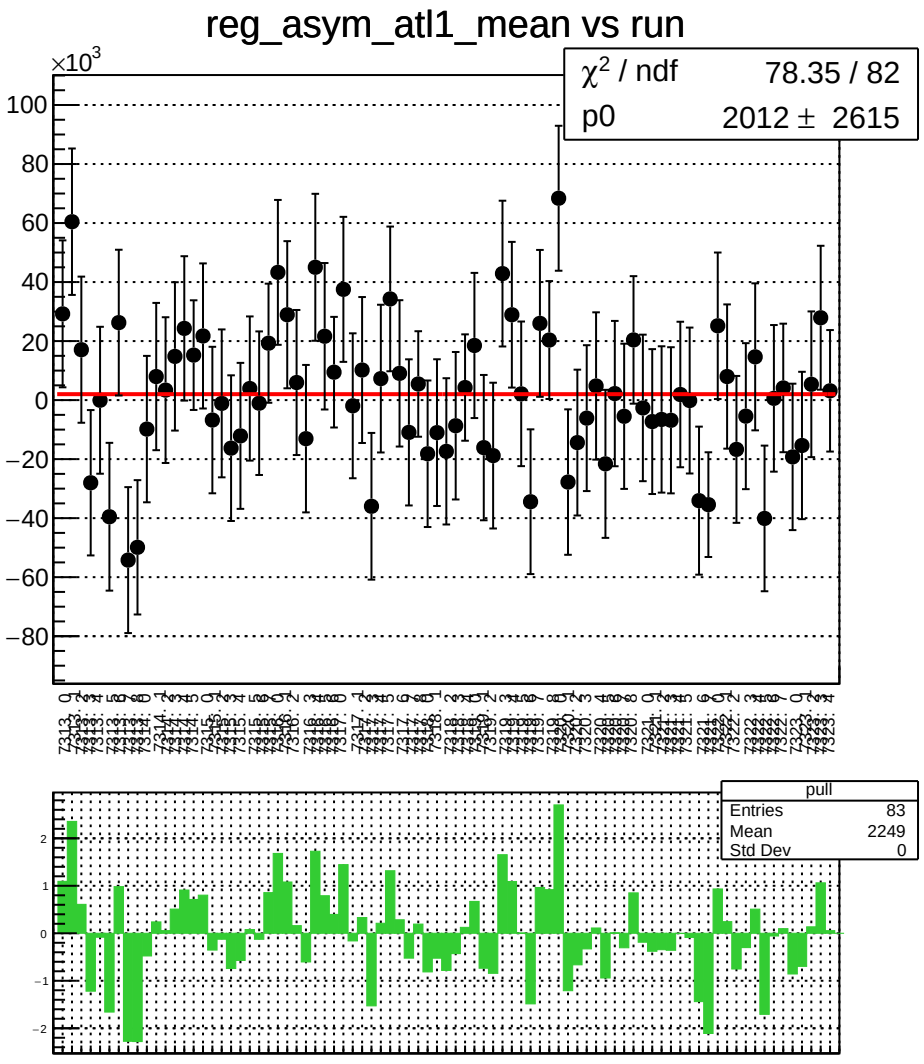

pull1D
Entries 83
Mean −0.006712
Std Dev 1.033

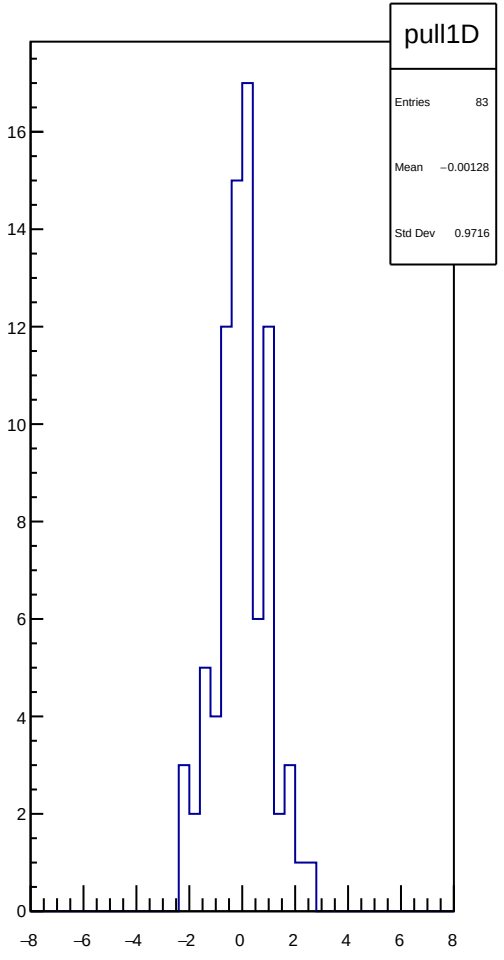

asym_us_agg_avg_rms vs run
χ² / ndf 1.365e+04 / 82
p0 2143 ± 1.696
2600
2400
2200
2000
1800
1600

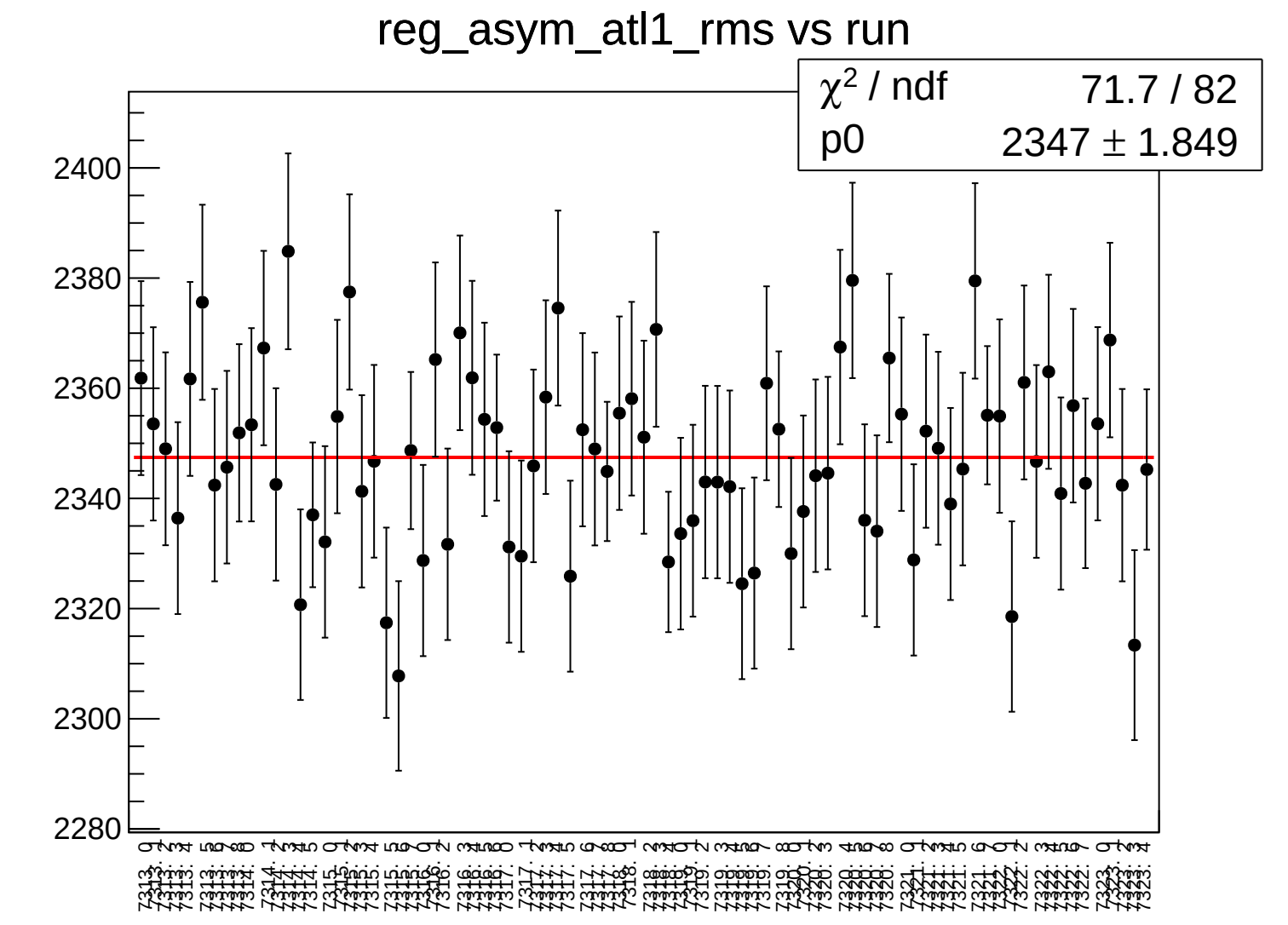

asym_us_agg_dd_mean vs run
χ² / ndf 66.17 / 82
p0 −298.6 ± 1010
pull
Entries 83
Mean 22.27
Std Dev 70.63

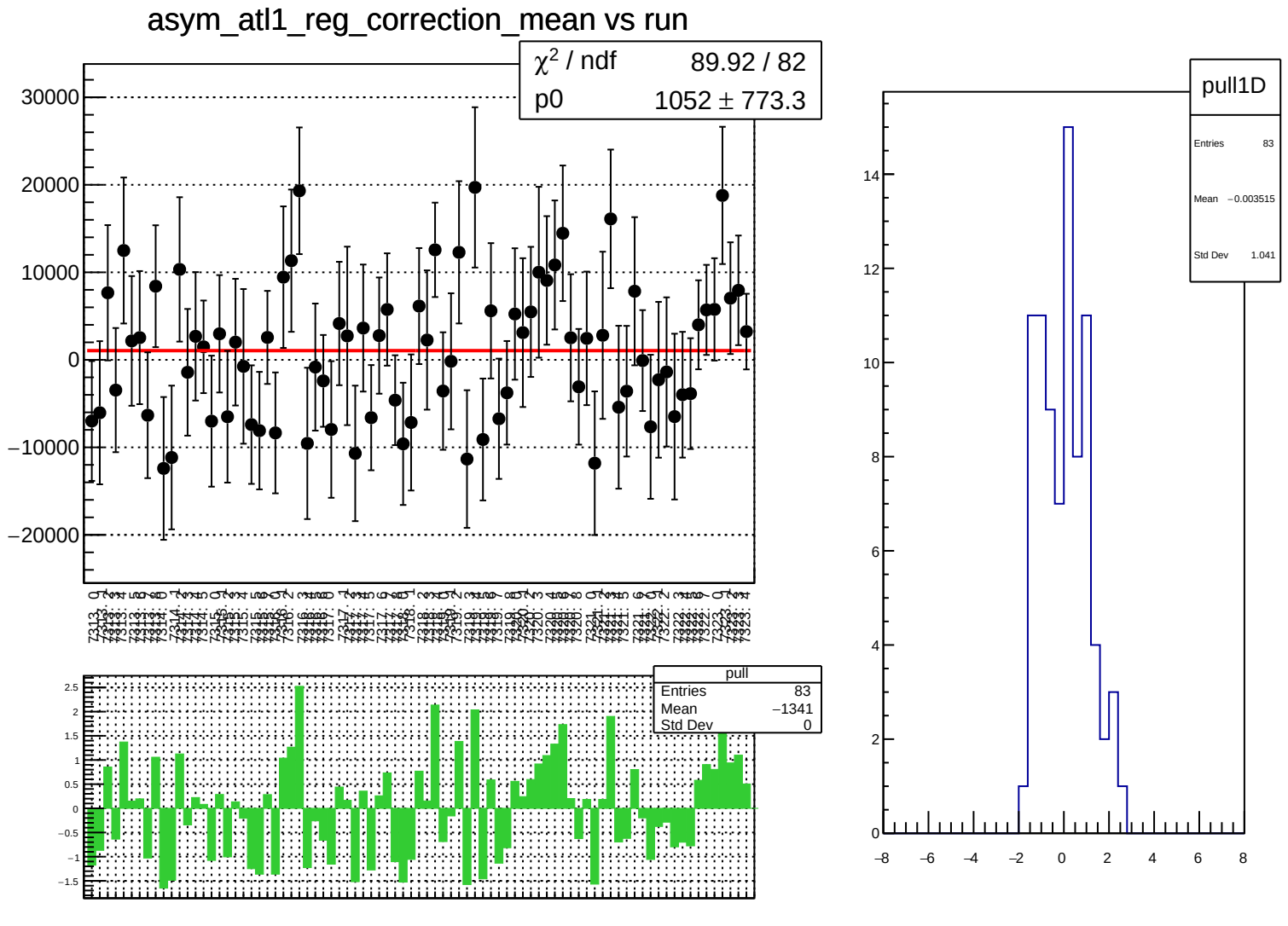

pull1D
Entries 83
Mean 0.007358
Std Dev 0.8928

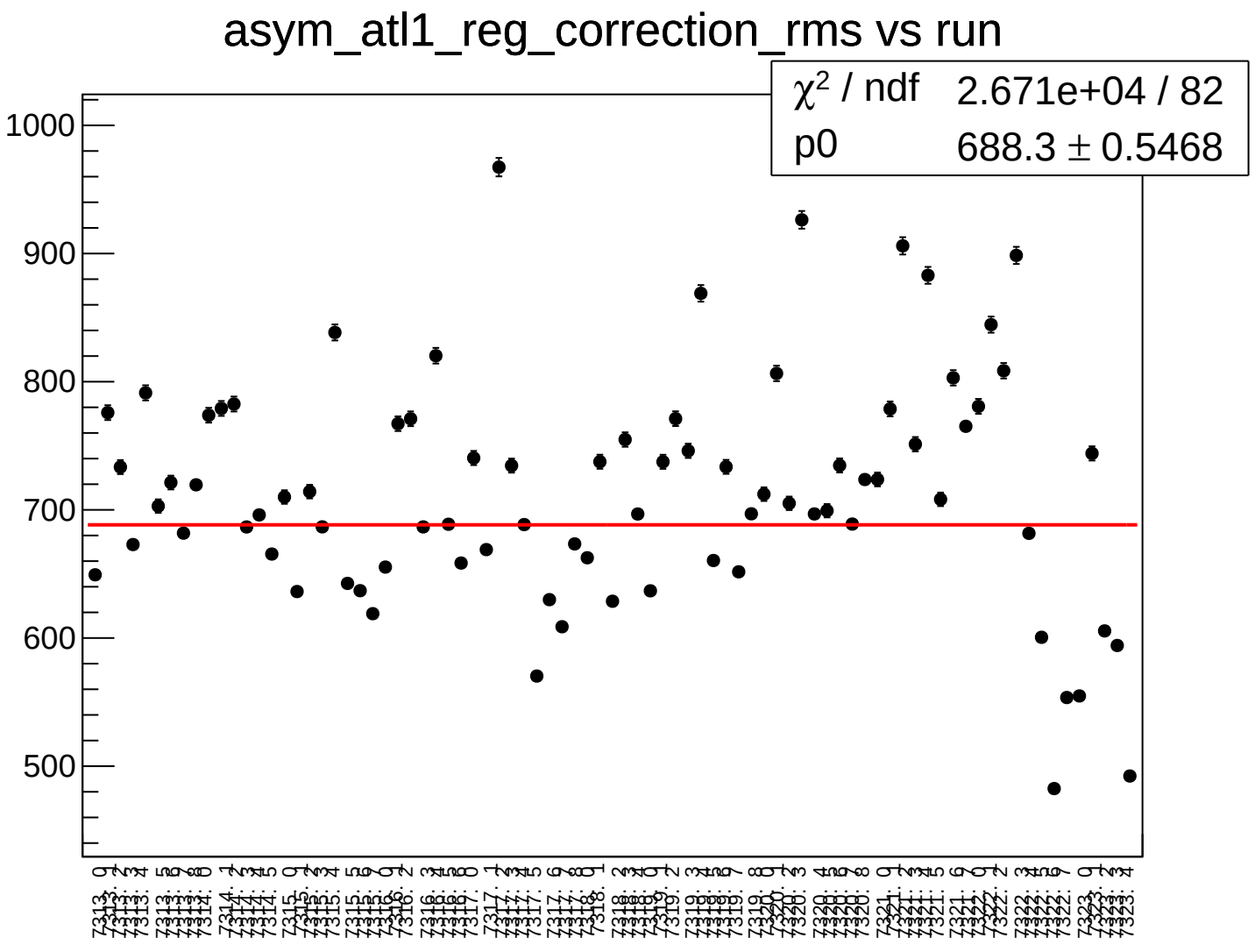

asym_us_agg_dd_rms vs run
χ² / ndf 383.7 / 82
p0 906.1 ± 0.7138
940
920
900
880
860

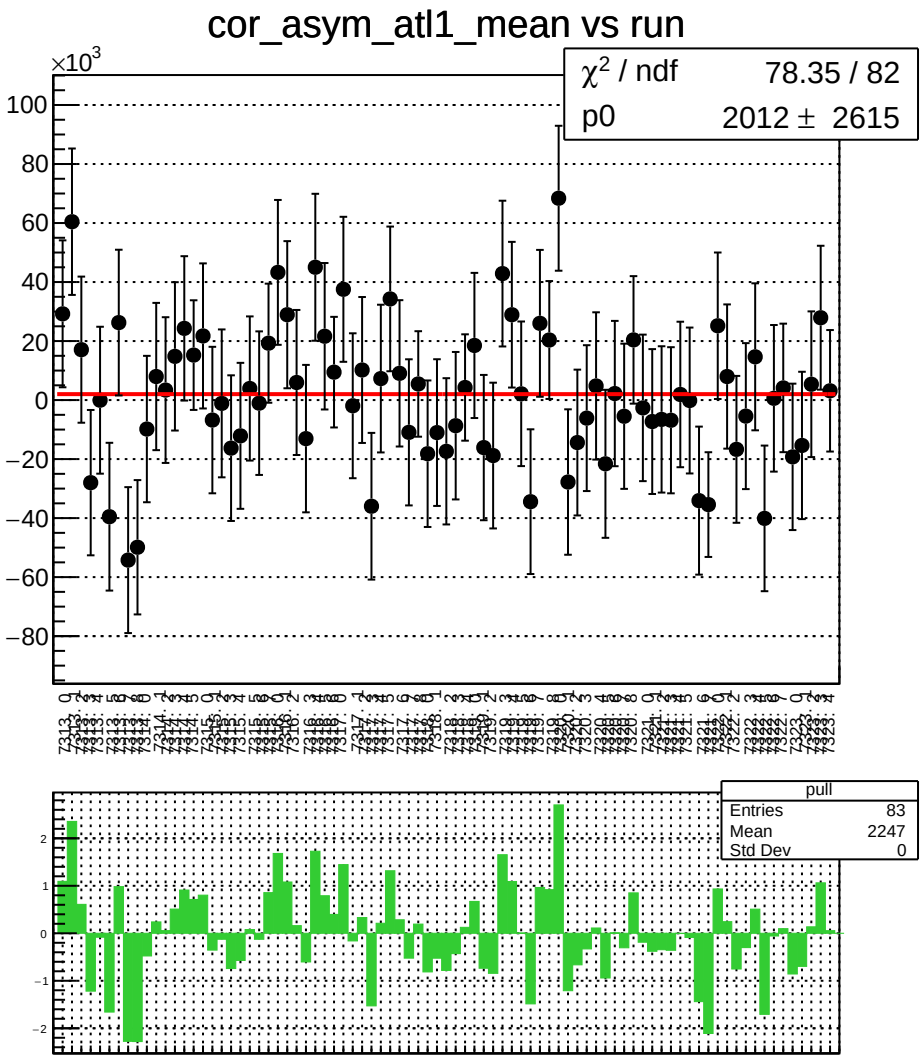

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 78.35 / 82
p0 2012 ± 2615
pull
Entries 83
Mean 2249
Std Dev 0

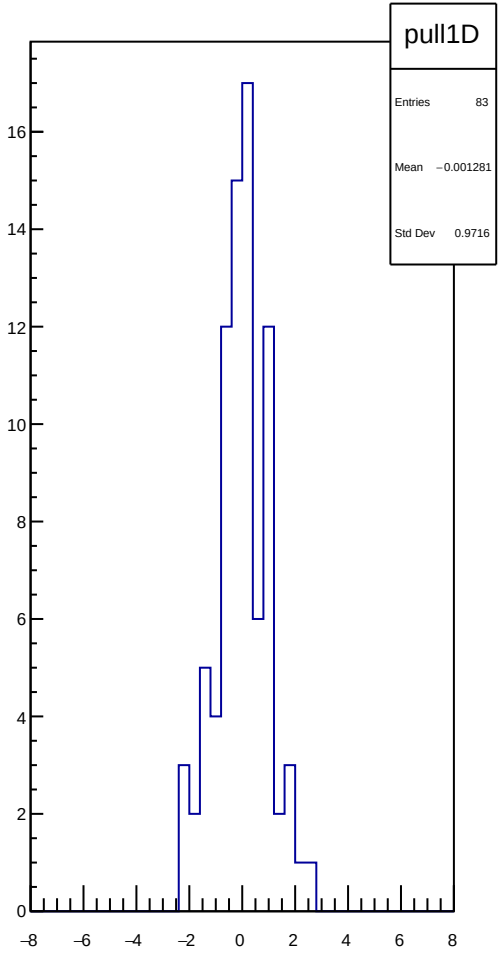

pull1D
Entries 83
Mean −0.00128
Std Dev 0.9716

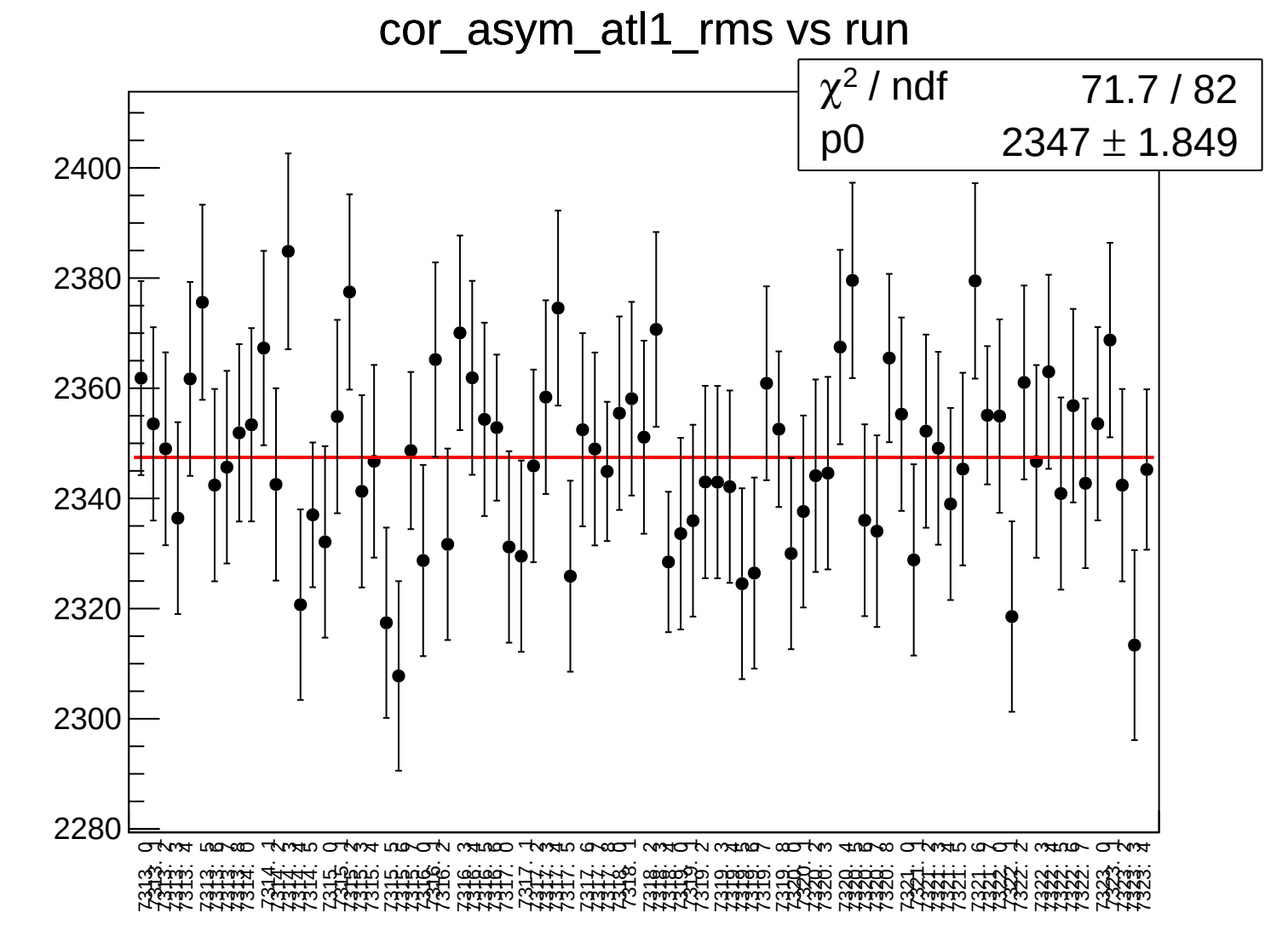

reg_asym_atl1_rms vs run
χ² / ndf 71.7 / 82
p0 2347 ± 1.849
2400
2380
2360
2340
2320
2300
2280

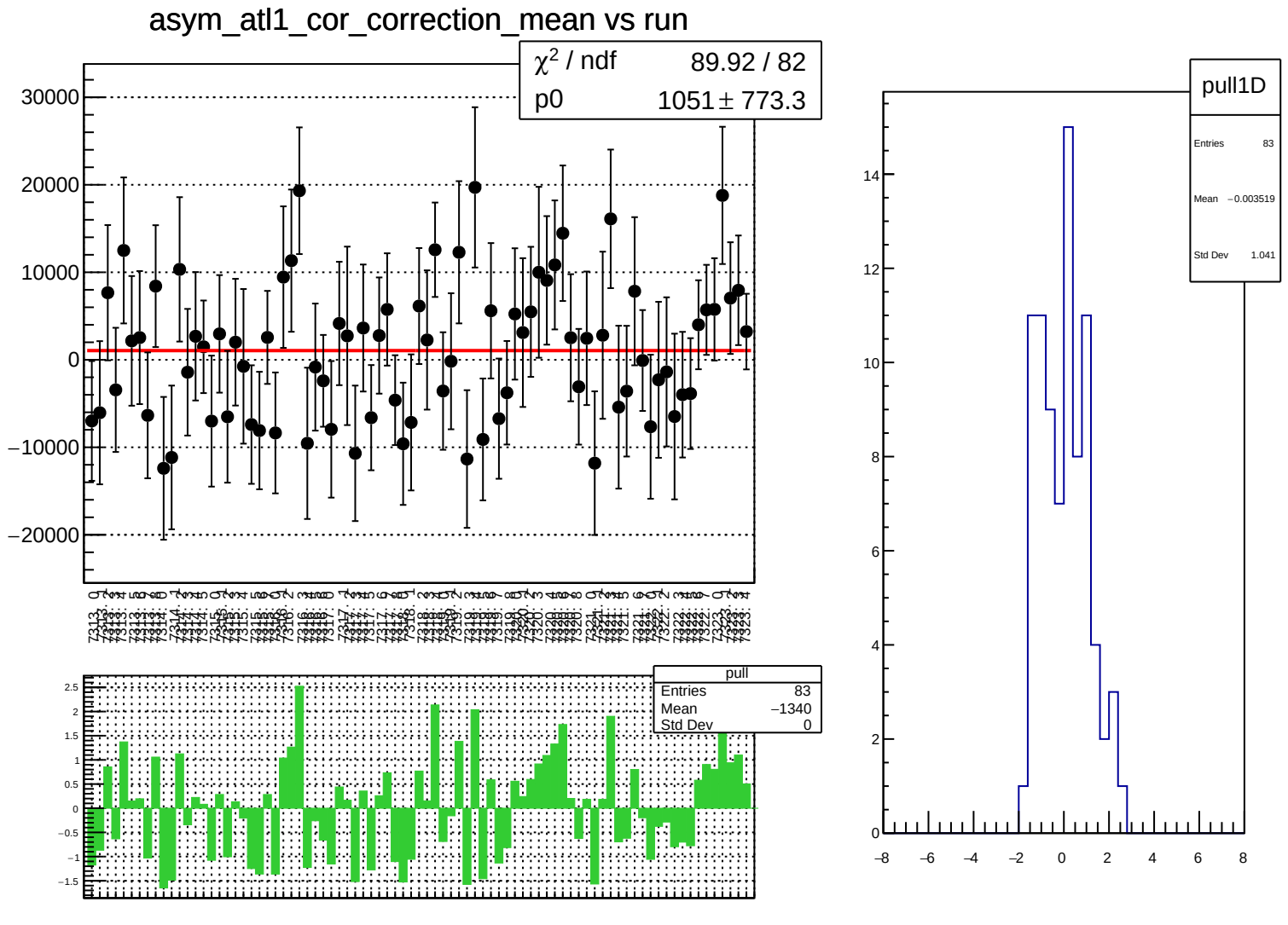

asym_atl1_reg_correction_mean vs run
χ² / ndf 89.92 / 82
p0 1052 ± 773.3
pull
Entries 83
Mean −1341
Std Dev 0
pull1D
Entries 83
Mean −0.003515
Std Dev 1.041

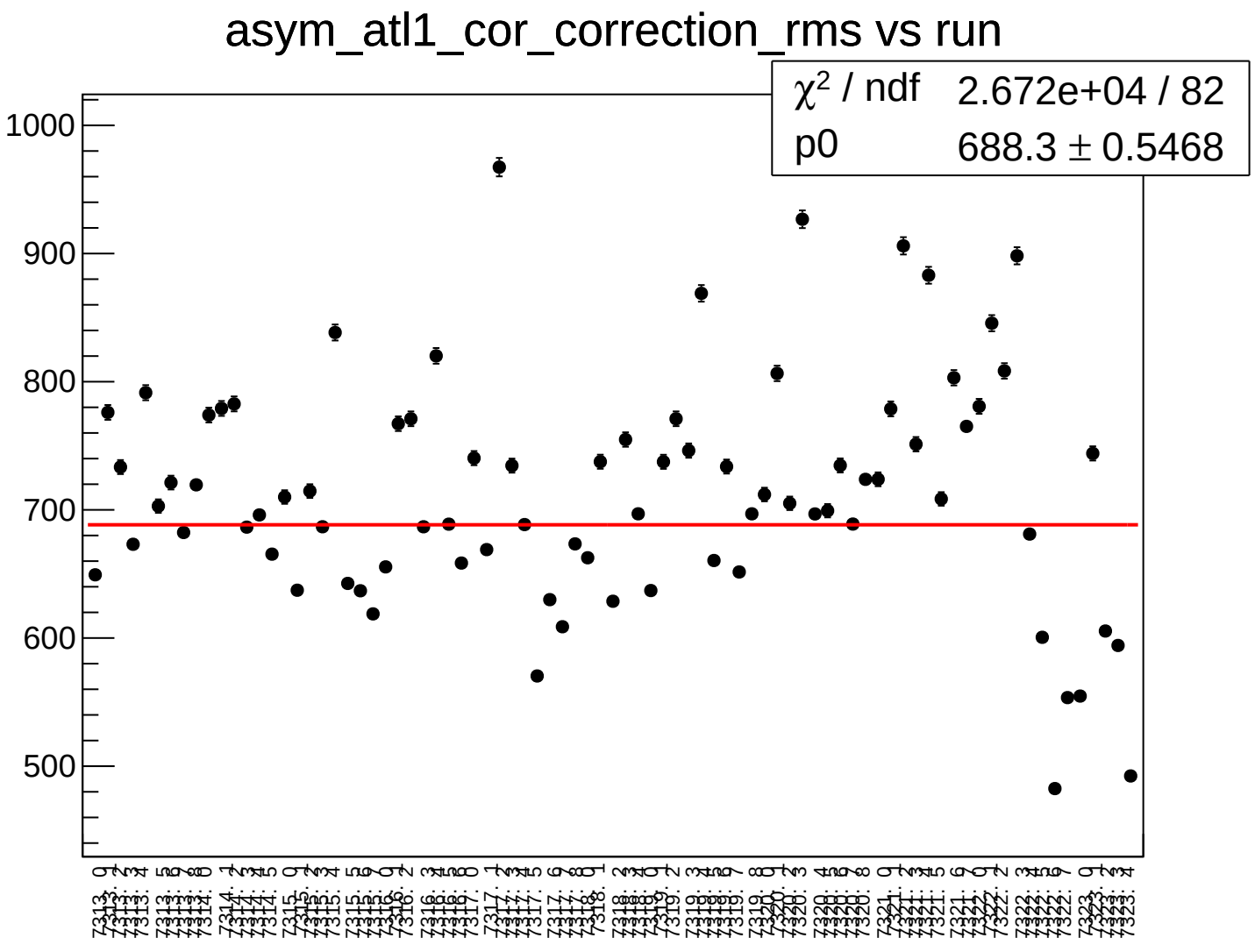

asym_atl1_reg_correction_rms vs run
χ² / ndf 2.671e+04 / 82
p0 688.3 ± 0.5468
1000
900
800
700
600
500

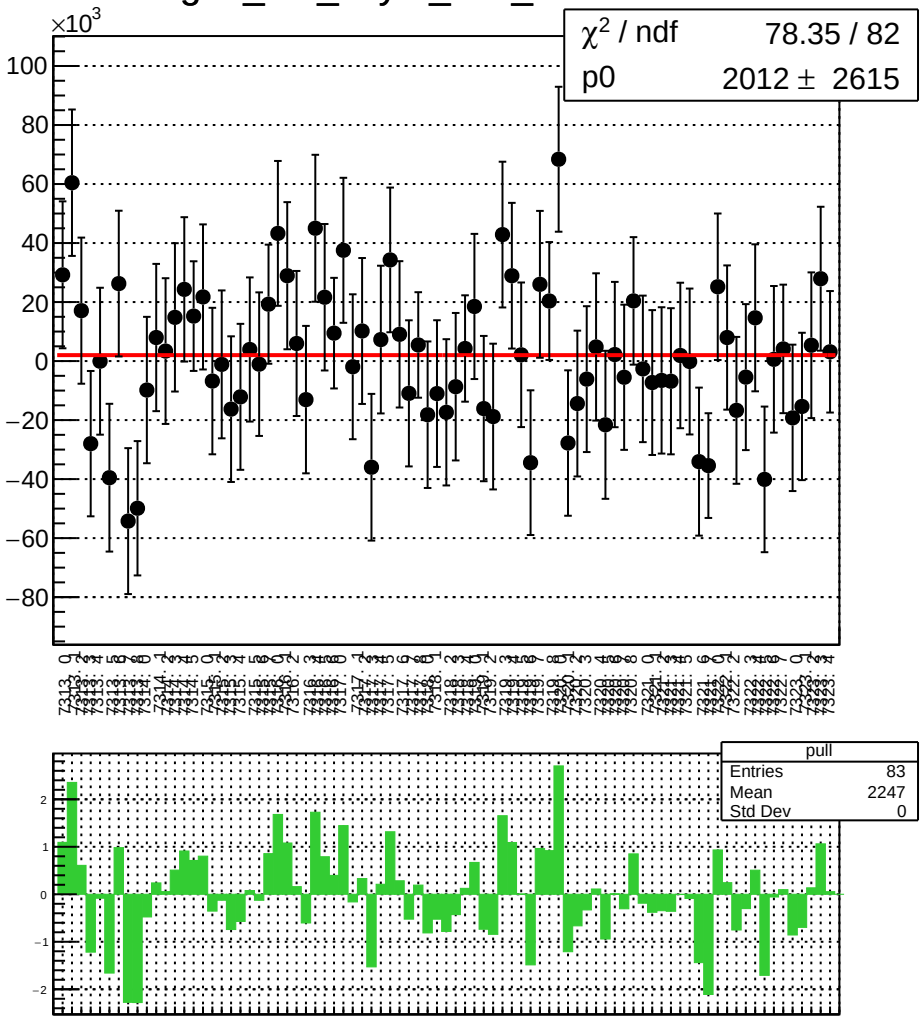

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 78.35 / 82
p0 2012 ± 2615
pull
Entries 83
Mean 2247
Std Dev 0

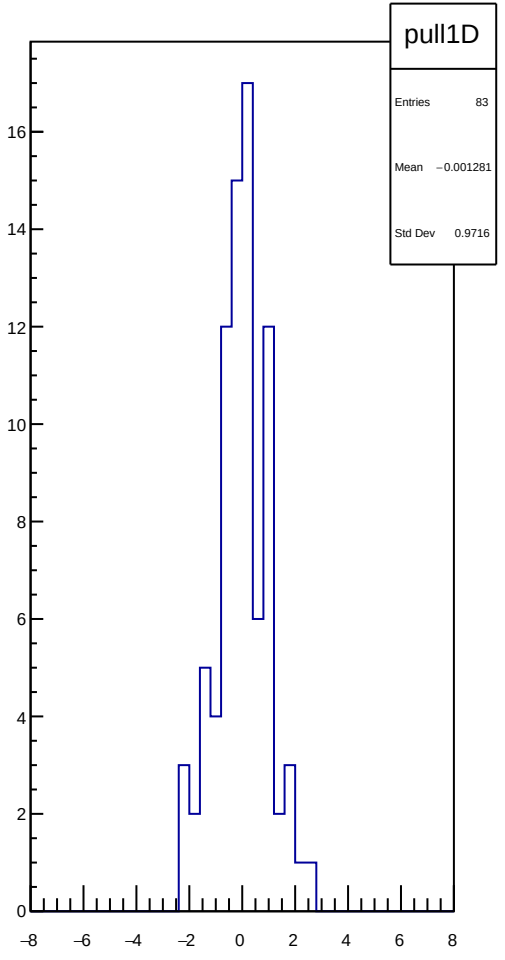

pull1D
Entries 83
Mean −0.001281
Std Dev 0.9716

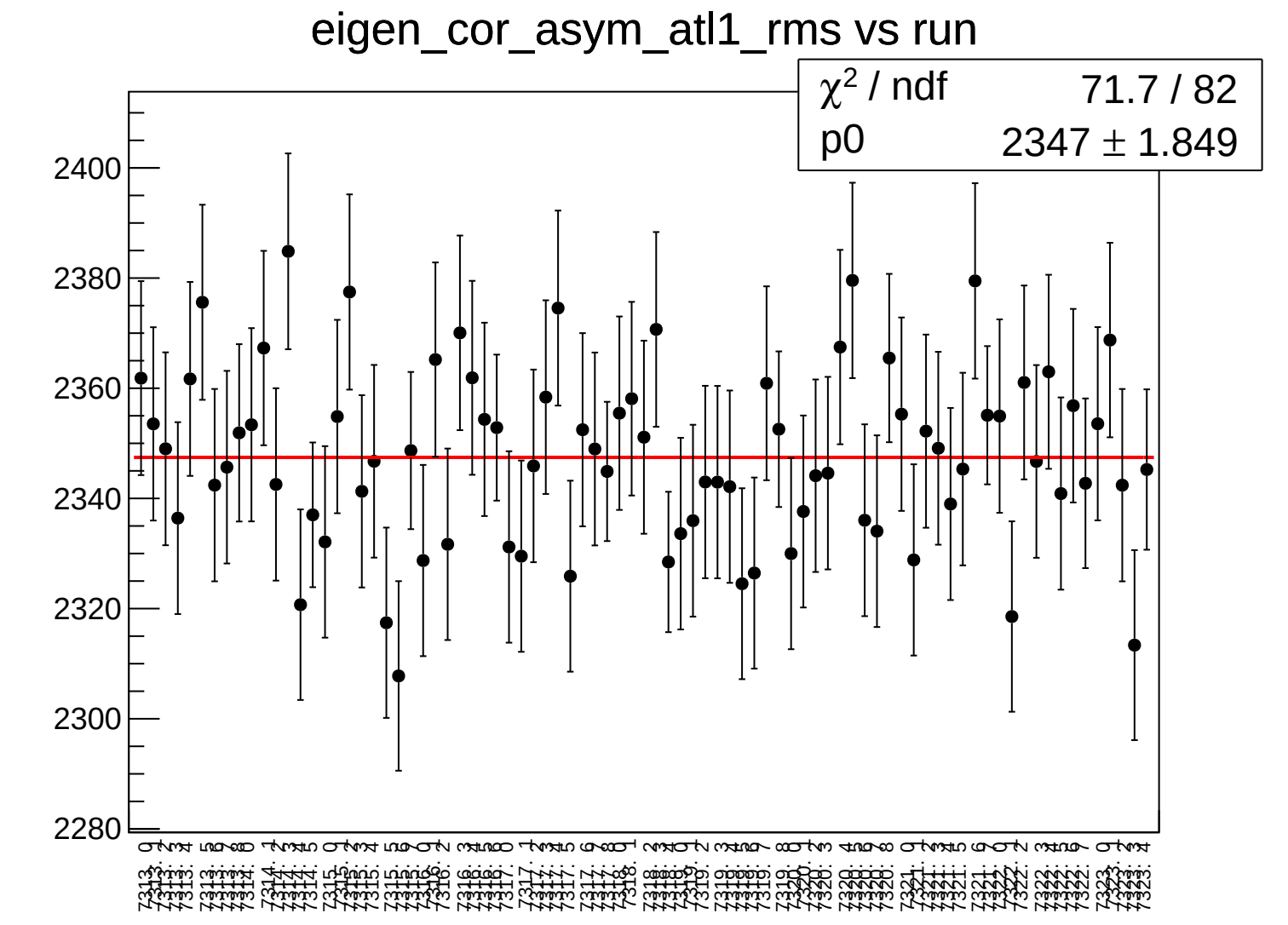

cor_asym_atl1_rms vs run
χ² / ndf 71.7 / 82
p0 2347 ± 1.849
2400
2380
2360
2340
2320
2300
2280

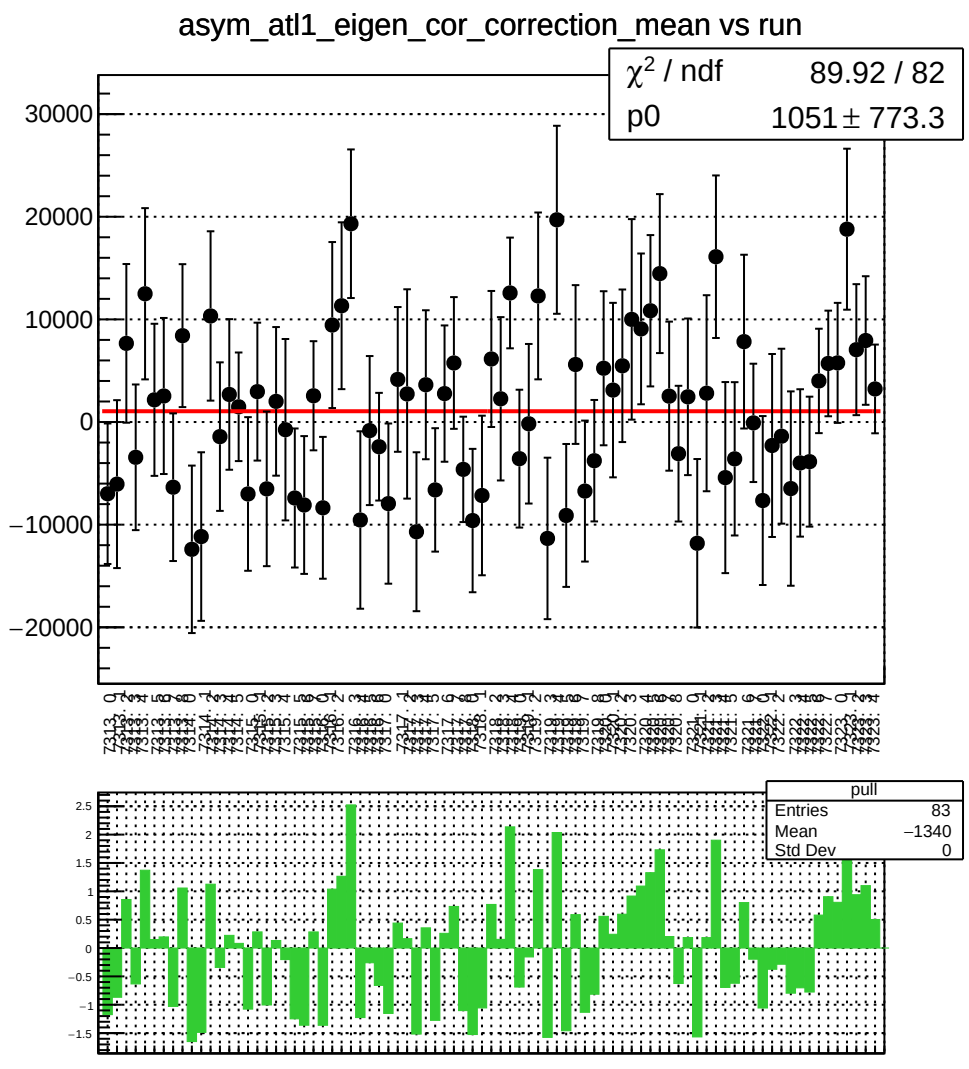

asym_atl1_cor_correction_mean vs run
χ² / ndf 89.92 / 82
p0 1051 ± 773.3
pull
Entries 83
Mean −1340
Std Dev 0
pull1D
Entries 83
Mean −0.003519
Std Dev 1.041

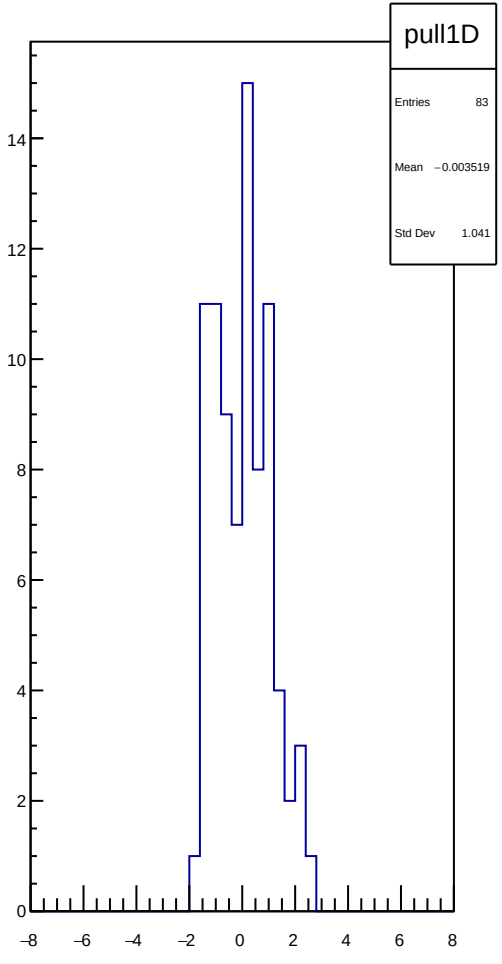

asym_atl1_cor_correction_rms vs run
χ² / ndf 2.672e+04 / 82
p0 688.3 ± 0.5468
1000
900
800
700
600
500

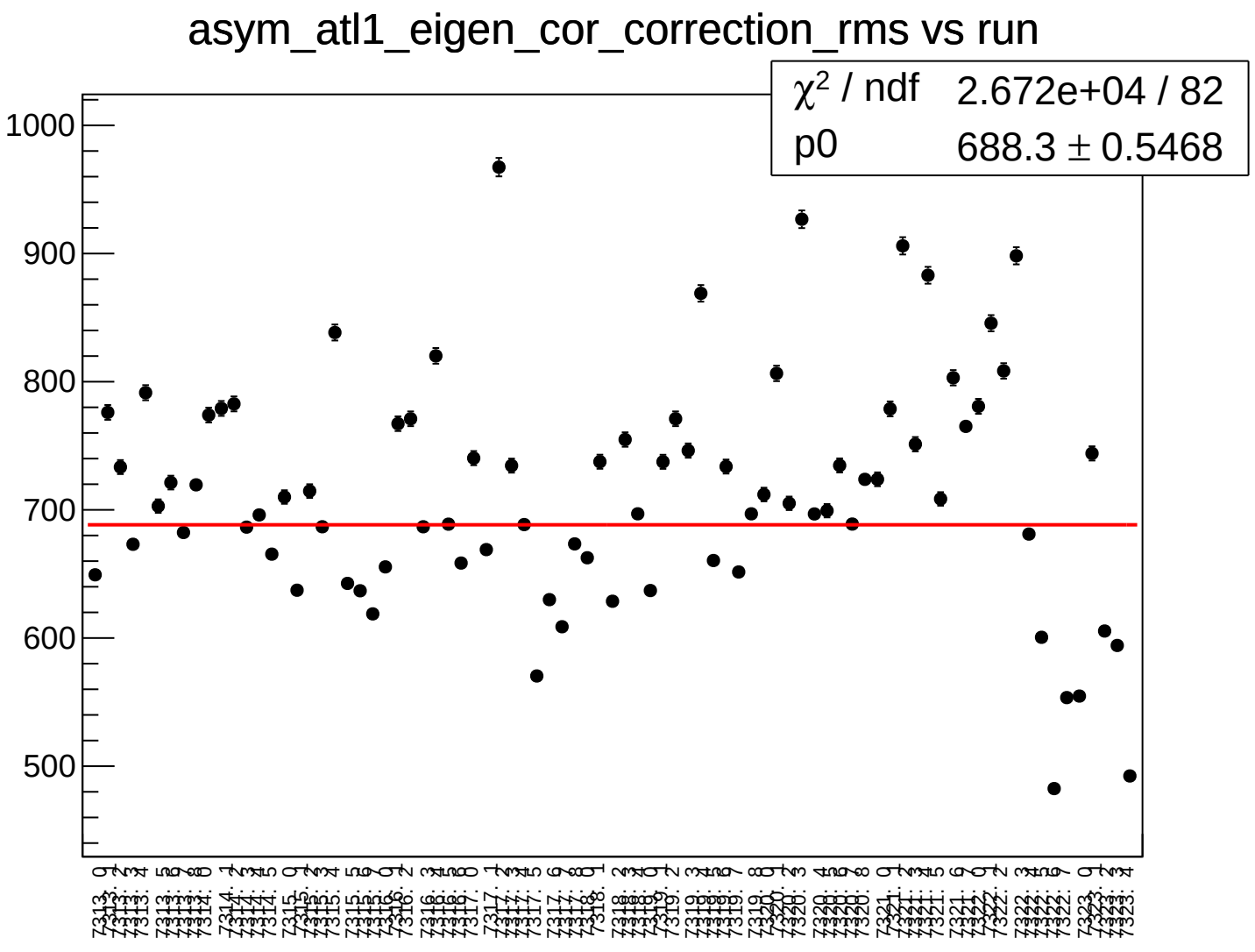

eigen_cor_asym_atl1_mean vs run
χ² / ndf 78.35 / 82
p0 2012 ± 2615
pull
Entries 83
Mean 2247
Std Dev 0

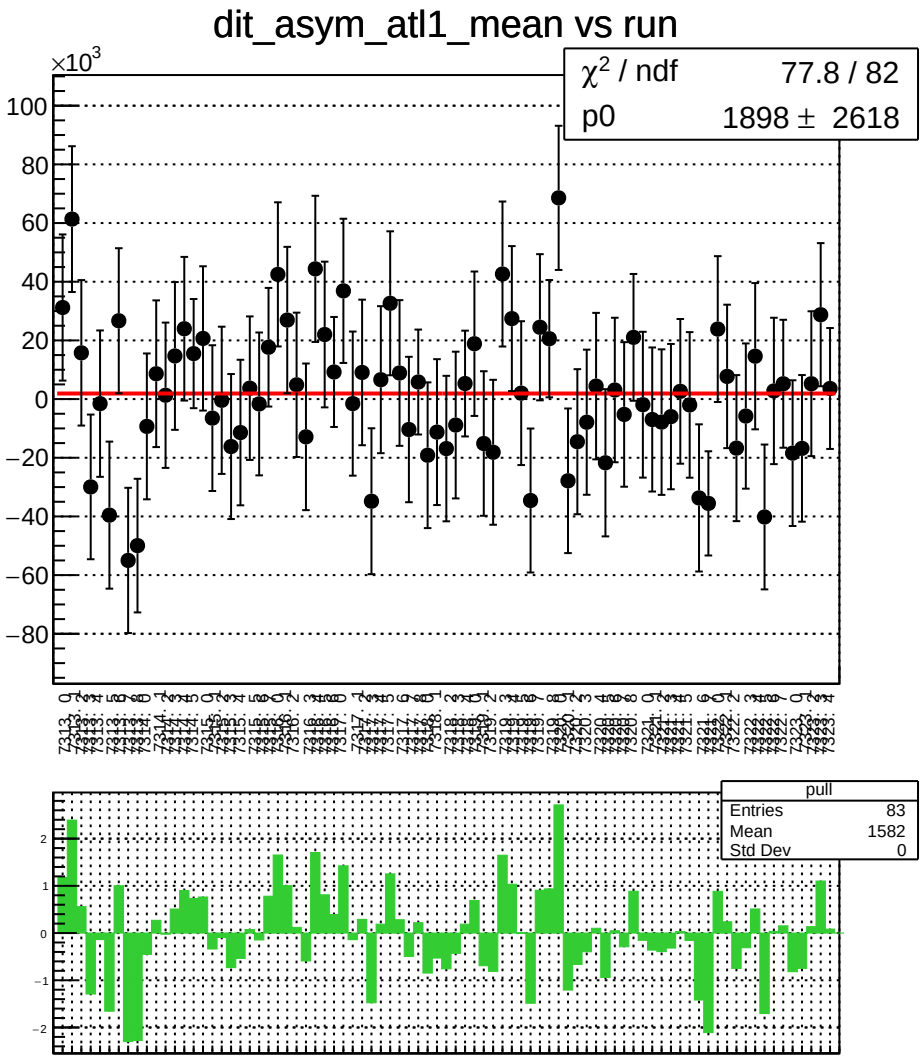

pull1D
Entries 83
Mean −0.001281
Std Dev 0.9716

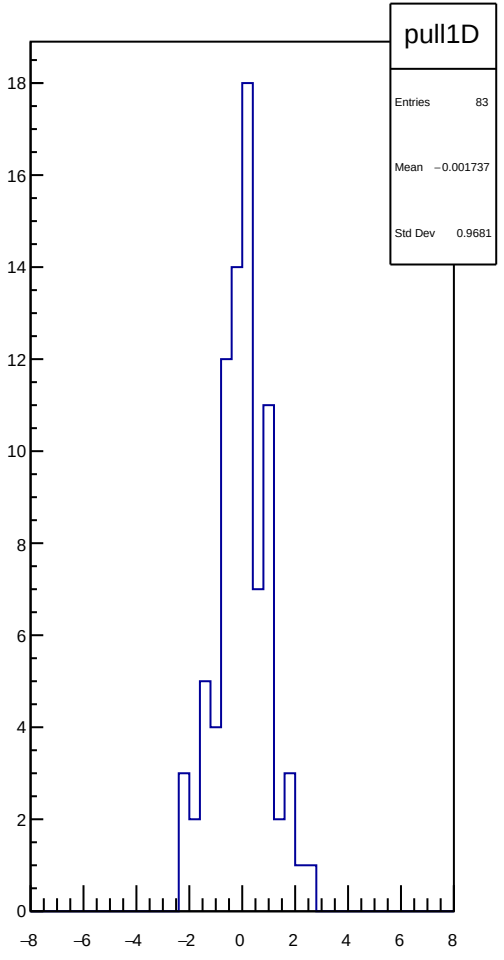

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 71.7 / 82
p0 2347 ± 1.849
2400
2380
2360
2340
2320
2300
2280

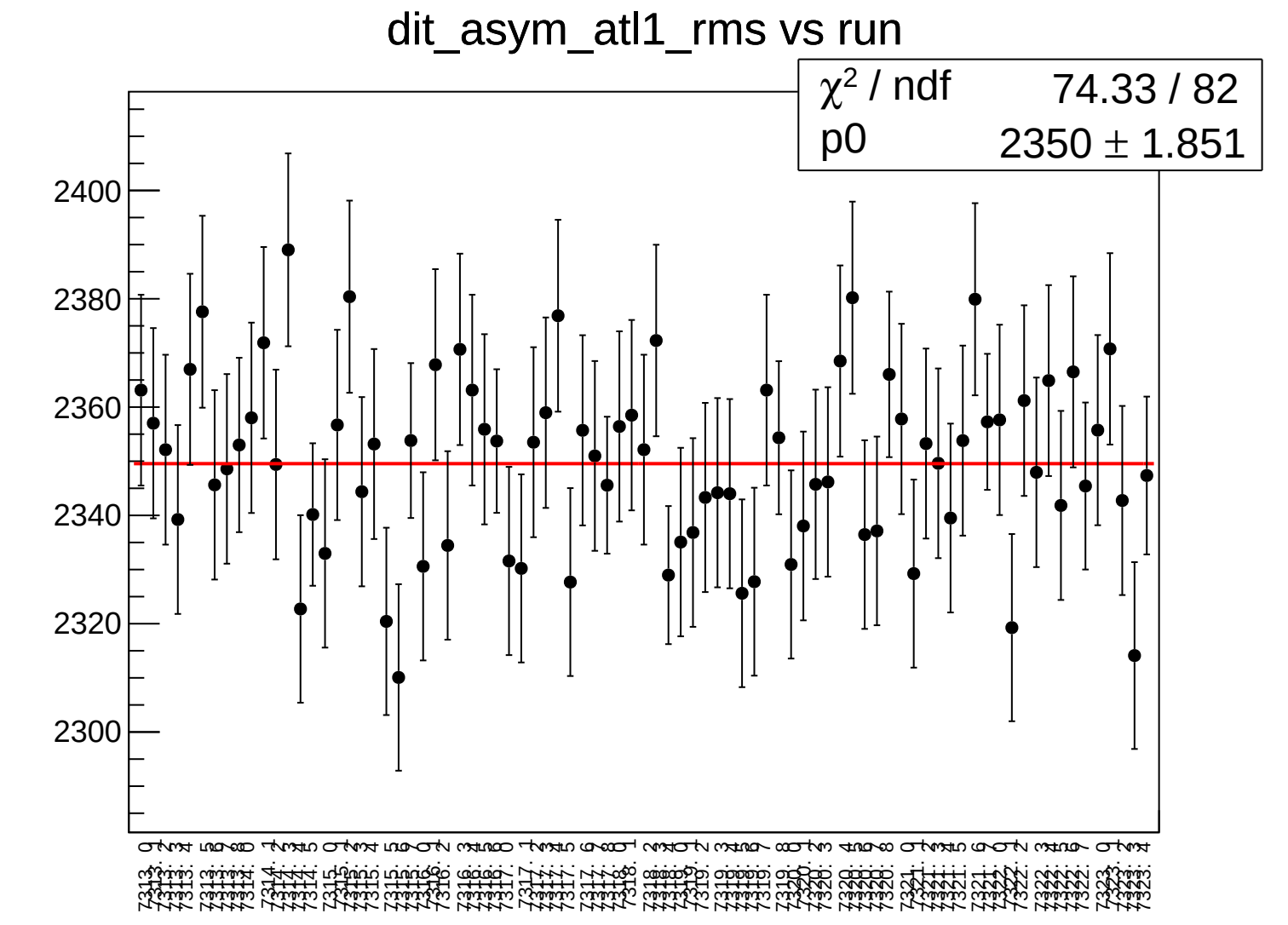

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 89.92 / 82
p0 1051 ± 773.3
pull
Entries 83
Mean −1340
Std Dev 0

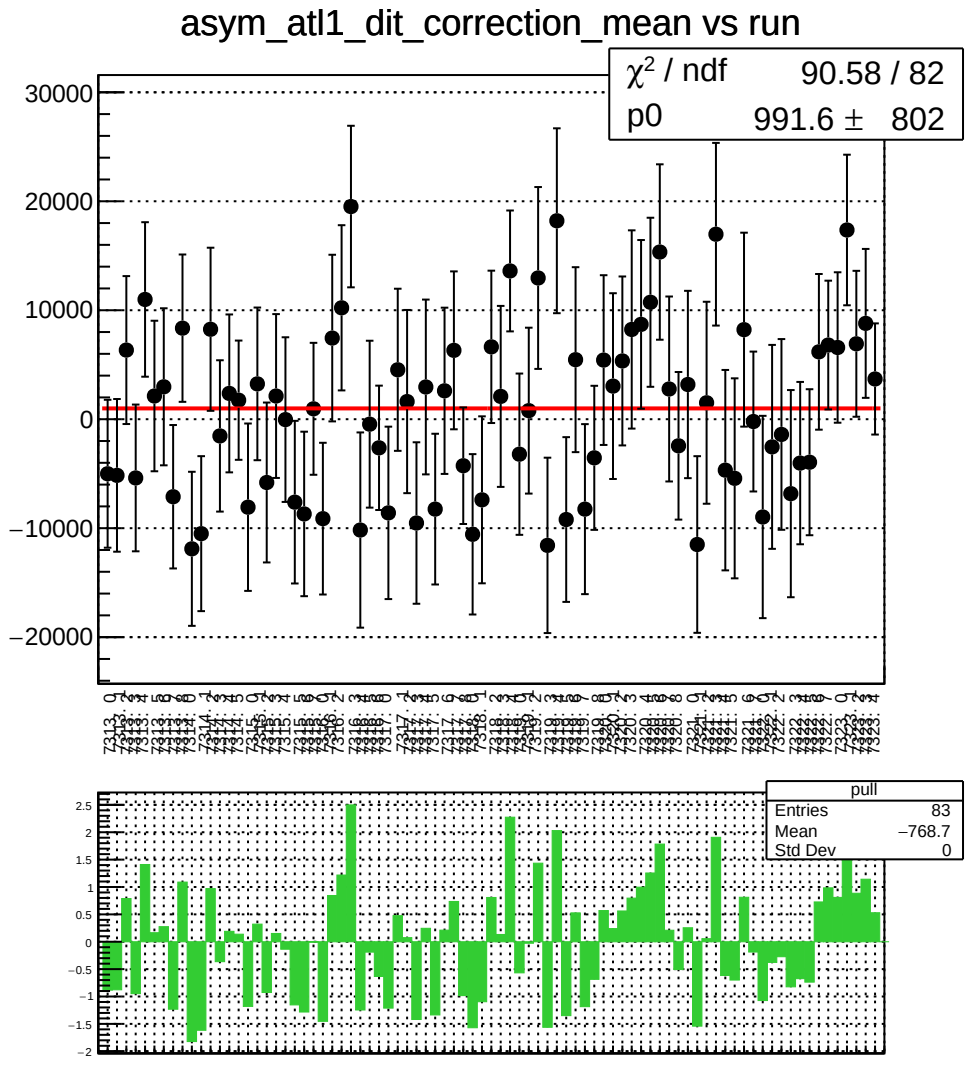

pull1D
Entries 83
Mean −0.003519
Std Dev 1.041

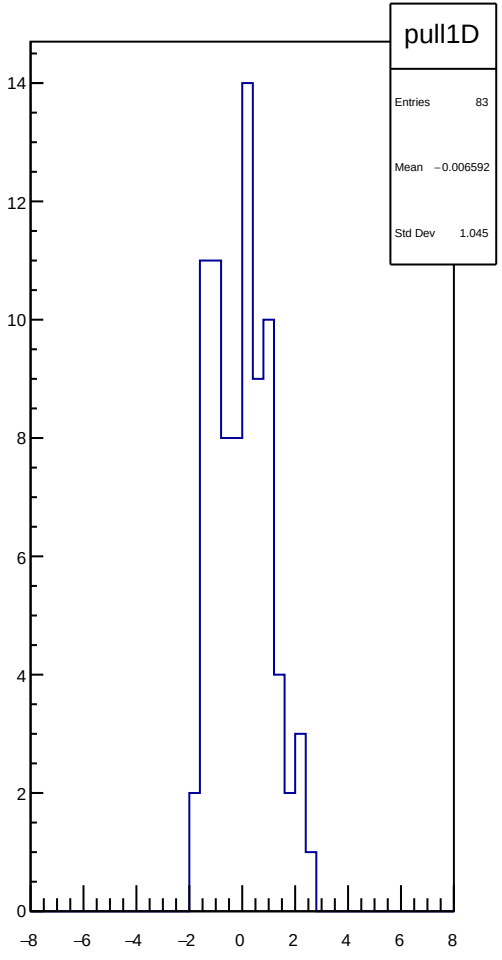

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.672e+04 / 82
p0 688.3 ± 0.5468
1000
900
800
700
600
500

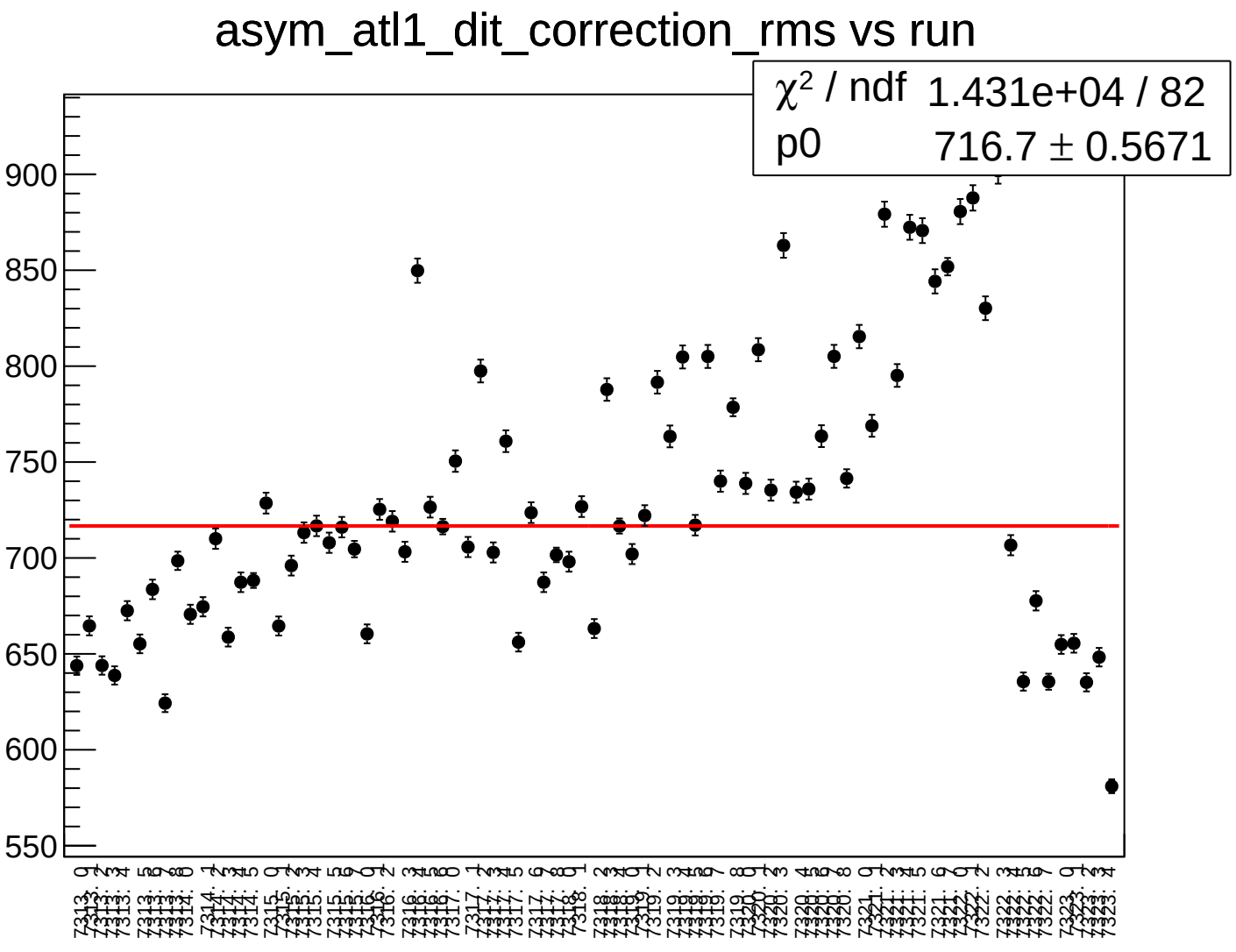

dit_asym_atl1_mean vs run
χ^2 / ndf 77.8 / 82
p0 1898 ± 2618
×10^3
pull
Entries 83
Mean 1582
Std Dev 0

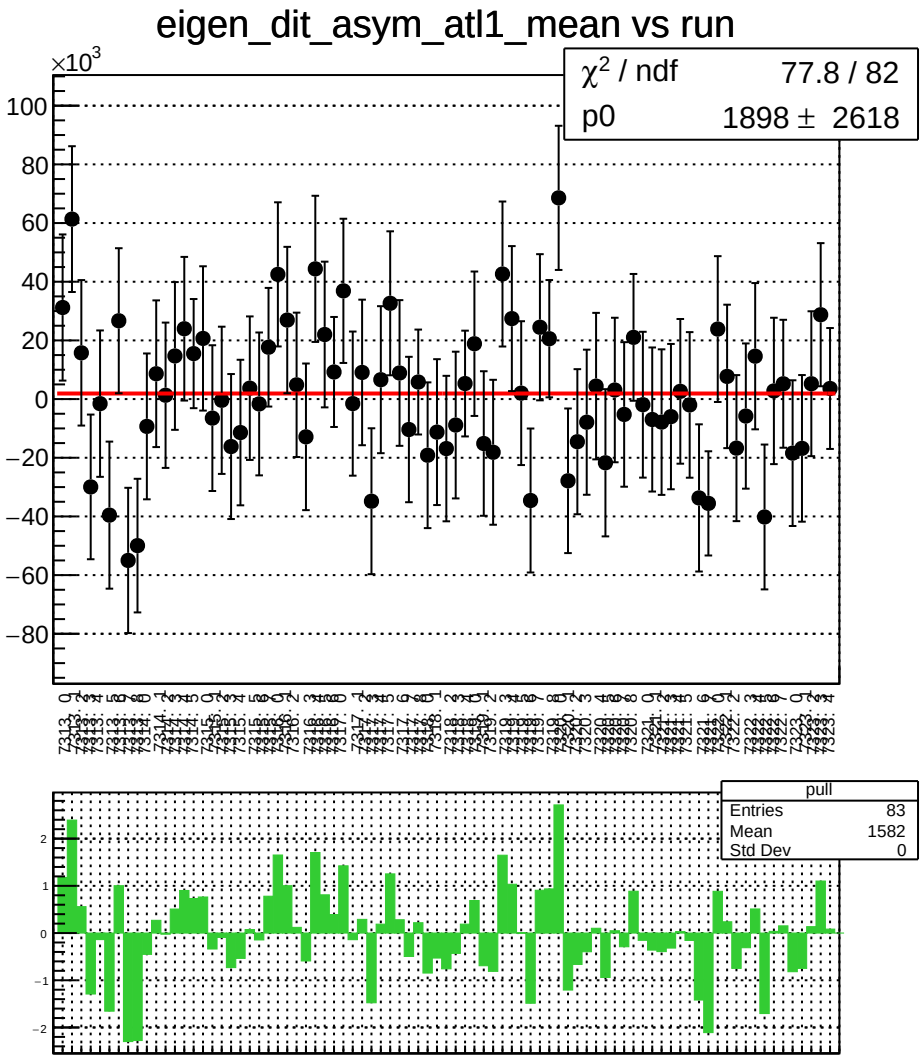

pull1D
Entries 83
Mean −0.001737
Std Dev 0.9681

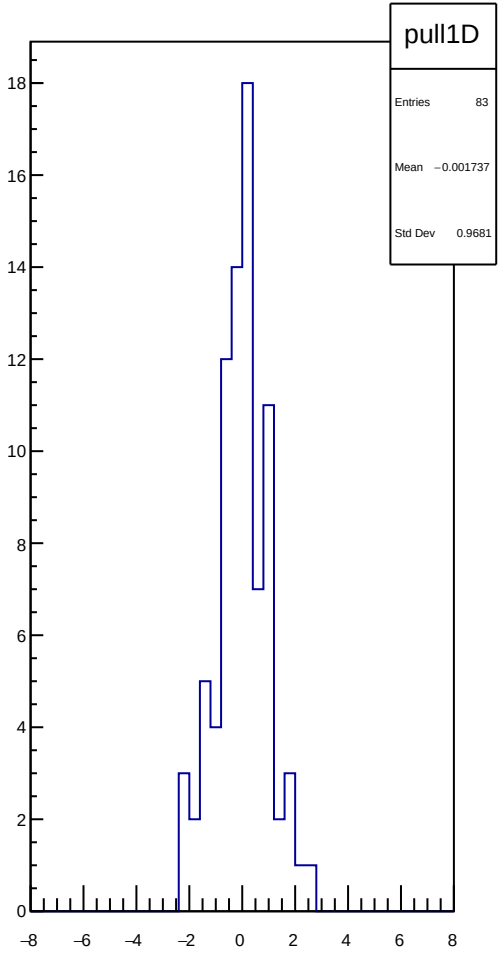

dit_asym_atl1_rms vs run
χ² / ndf 74.33 / 82
p0 2350 ± 1.851
2400
2380
2360
2340
2320
2300

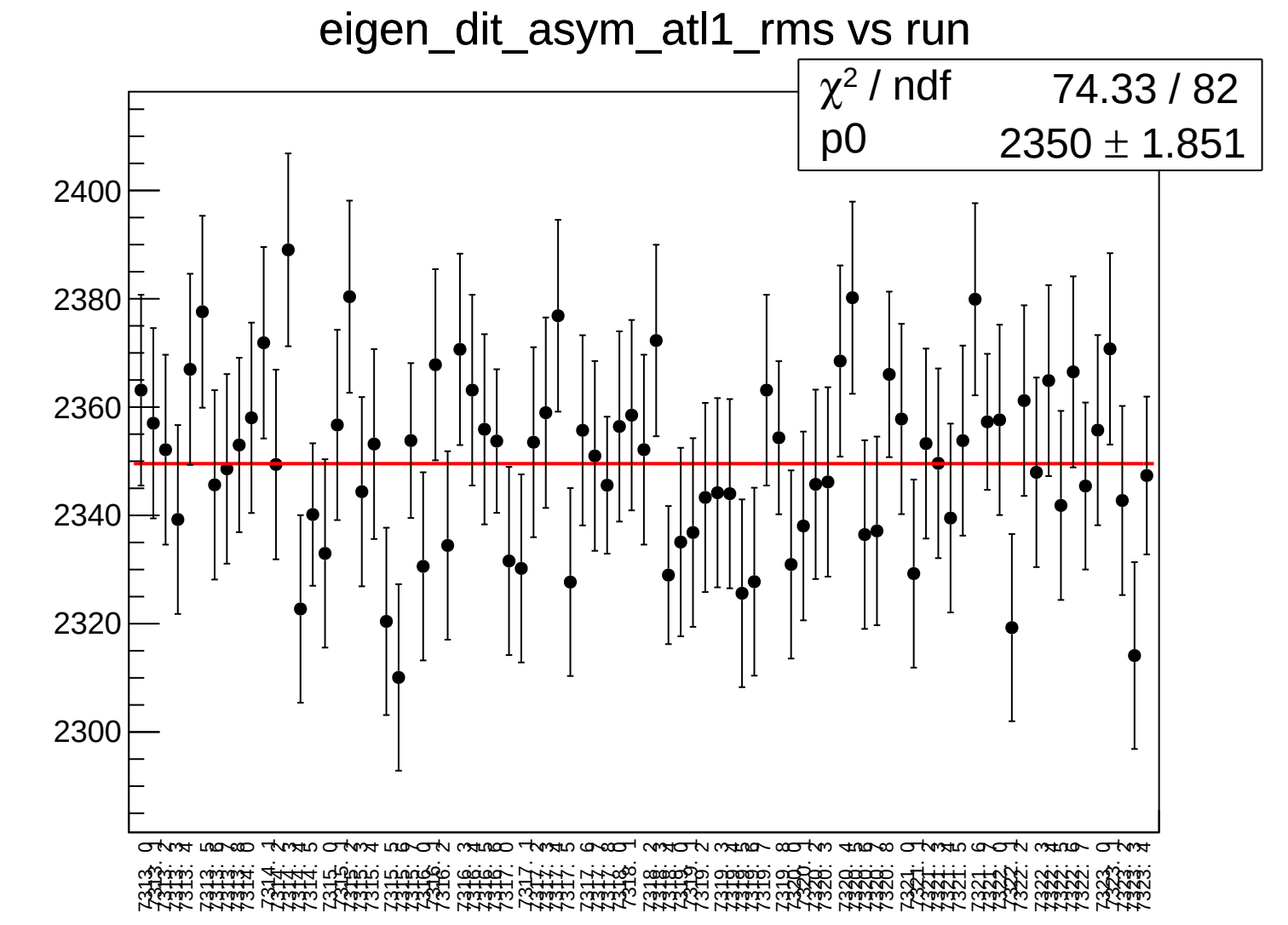

asym_atl1_dit_correction_mean vs run
χ² / ndf 90.58 / 82
p0 991.6 ± 802
pull
Entries 83
Mean −768.7
Std Dev 0

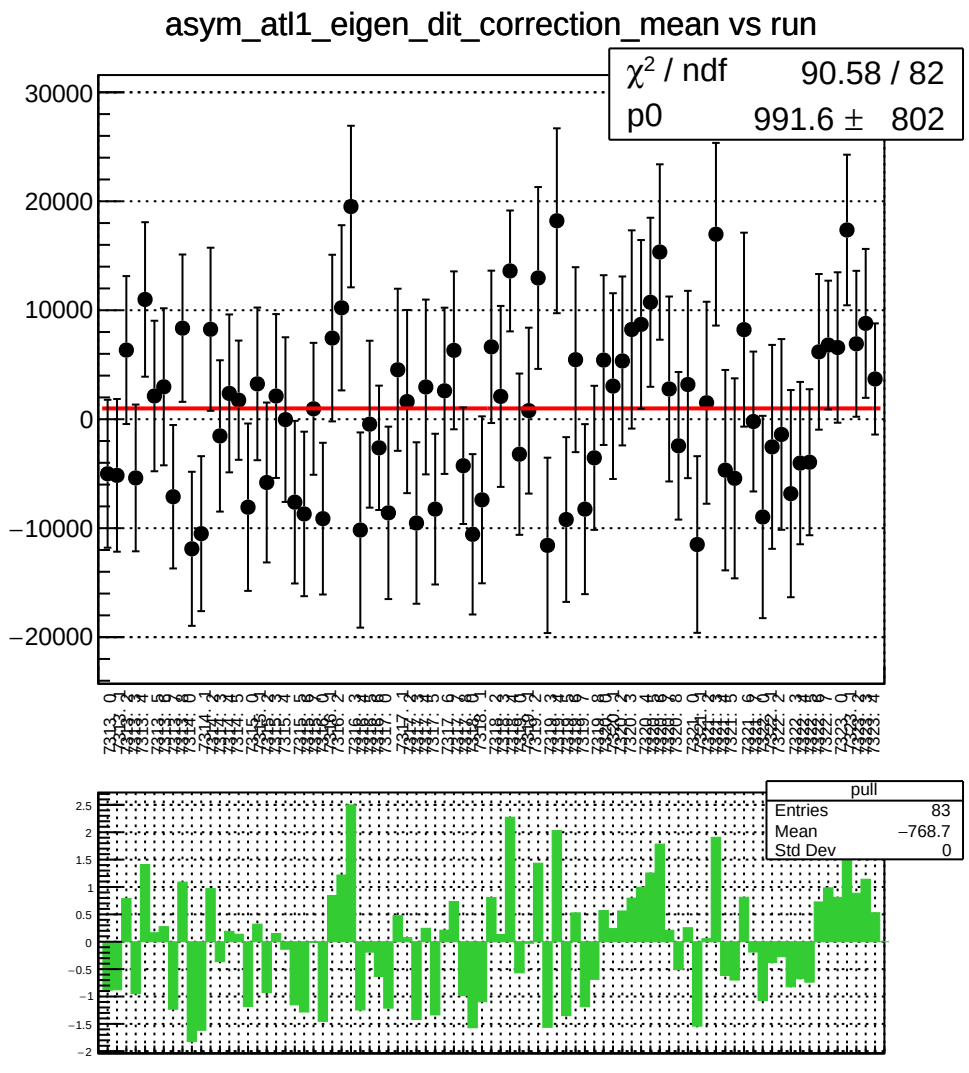

pull1D
Entries 83
Mean −0.006592
Std Dev 1.045

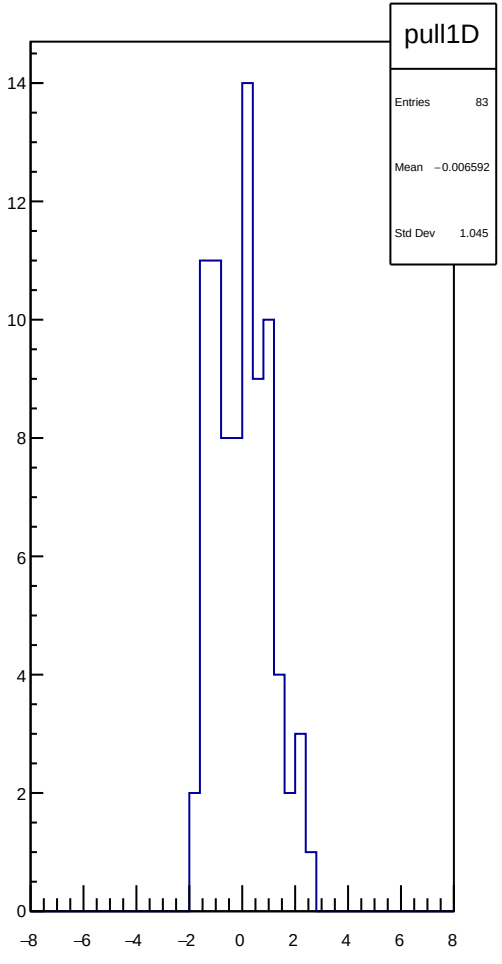

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 82
p0 716.7 ± 0.5671
900
850
800
750
700
650
600
550

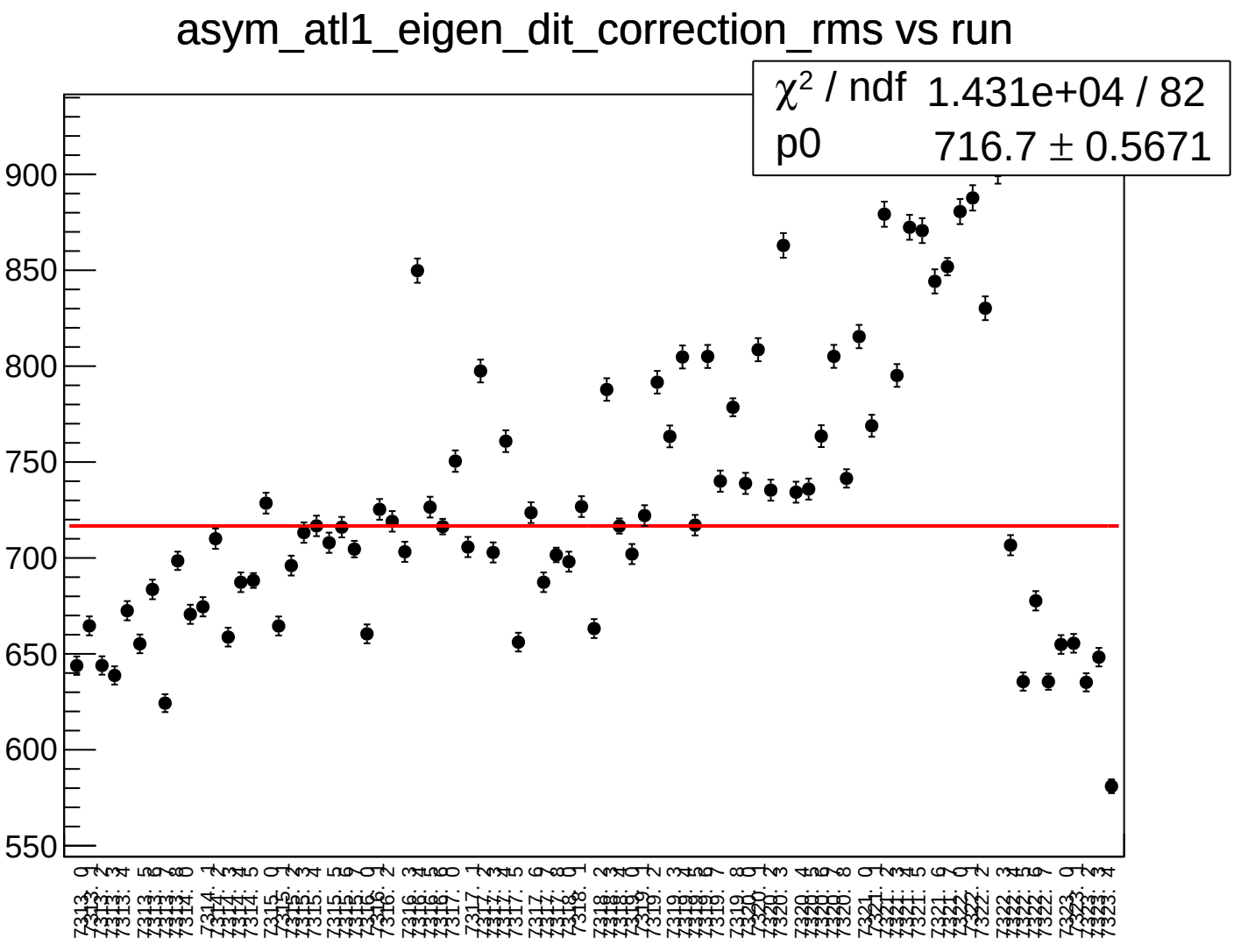

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 77.8 / 82
p0 1898 ± 2618
pull
Entries 83
Mean 1582
Std Dev 0

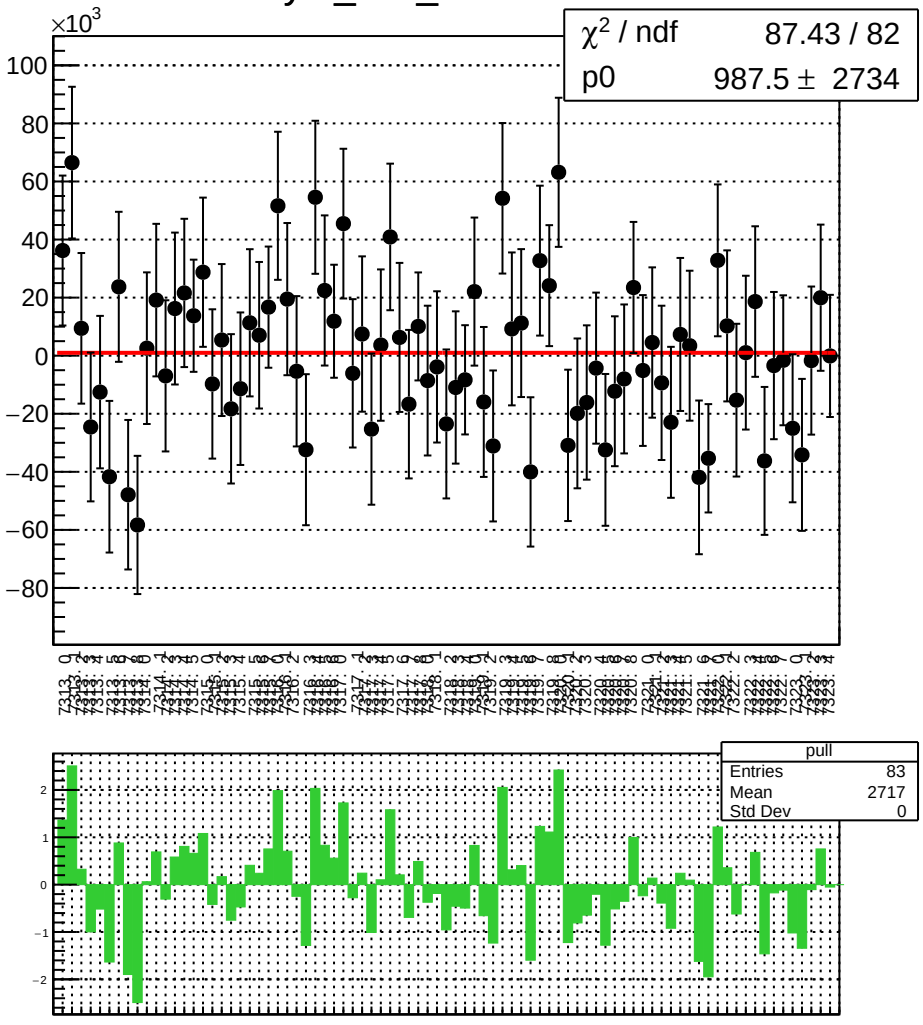

pull1D
Entries 83
Mean −0.001737
Std Dev 0.9681

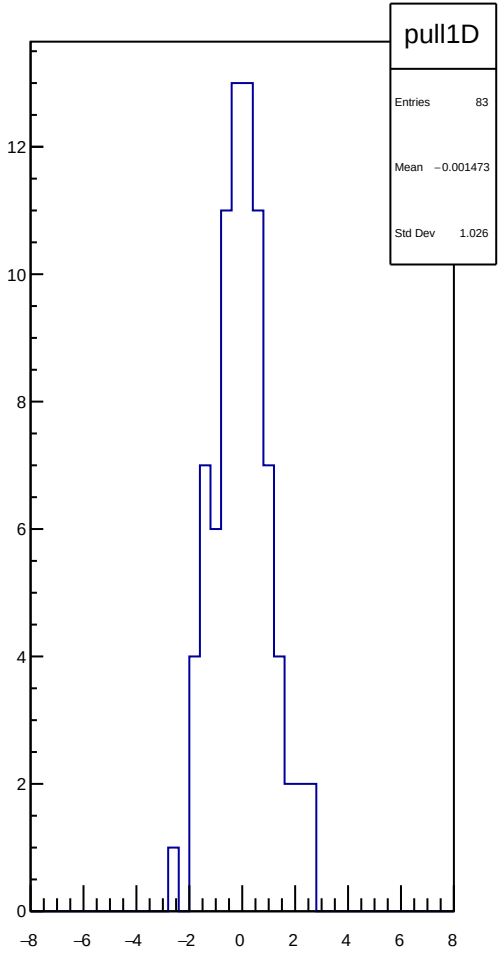

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 74.33 / 82
p0 2350 ± 1.851
2400
2380
2360
2340
2320
2300

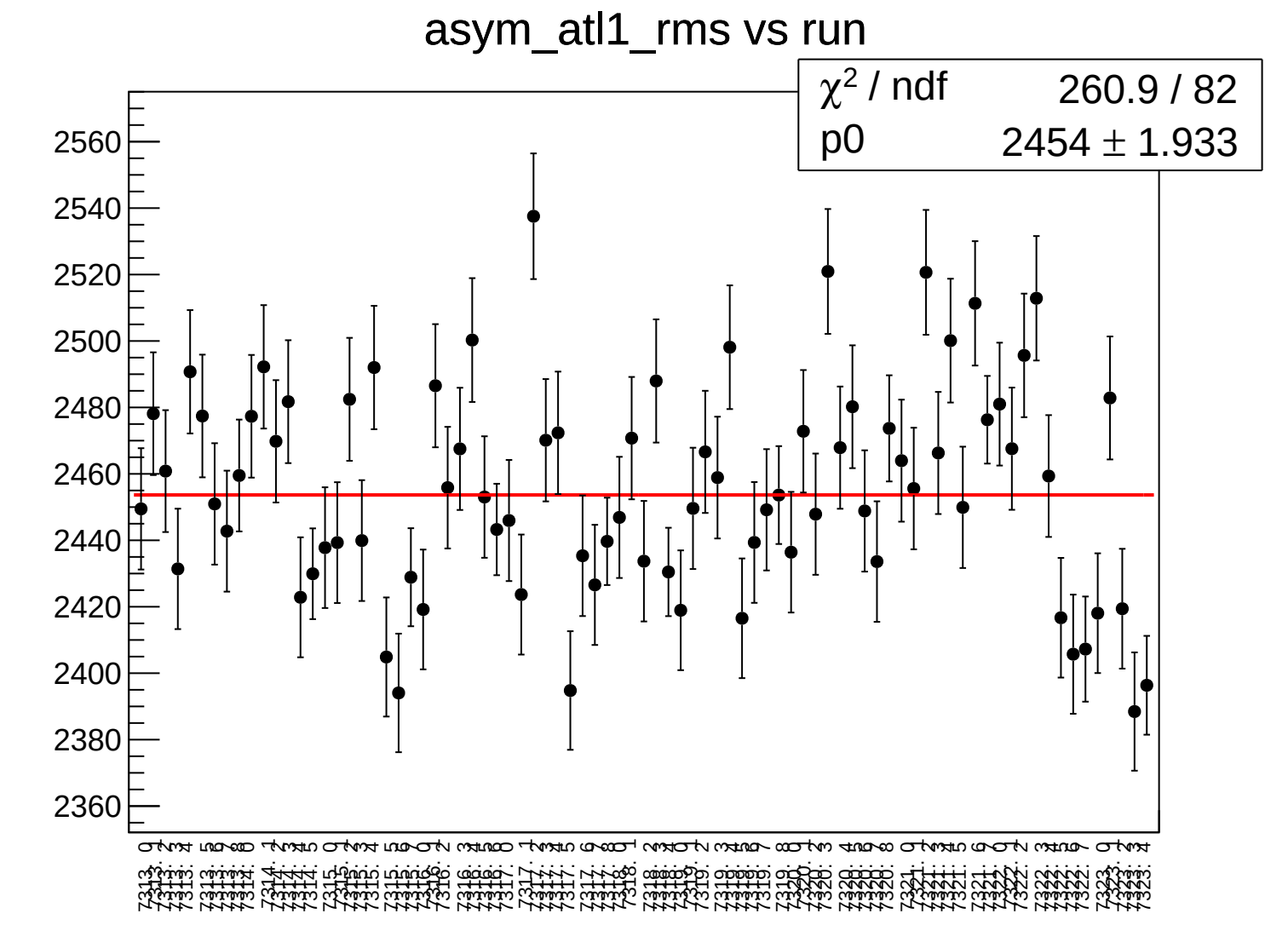

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 90.58 / 82
p0 991.6 ± 802
pull
Entries 83
Mean −768.7
Std Dev 0

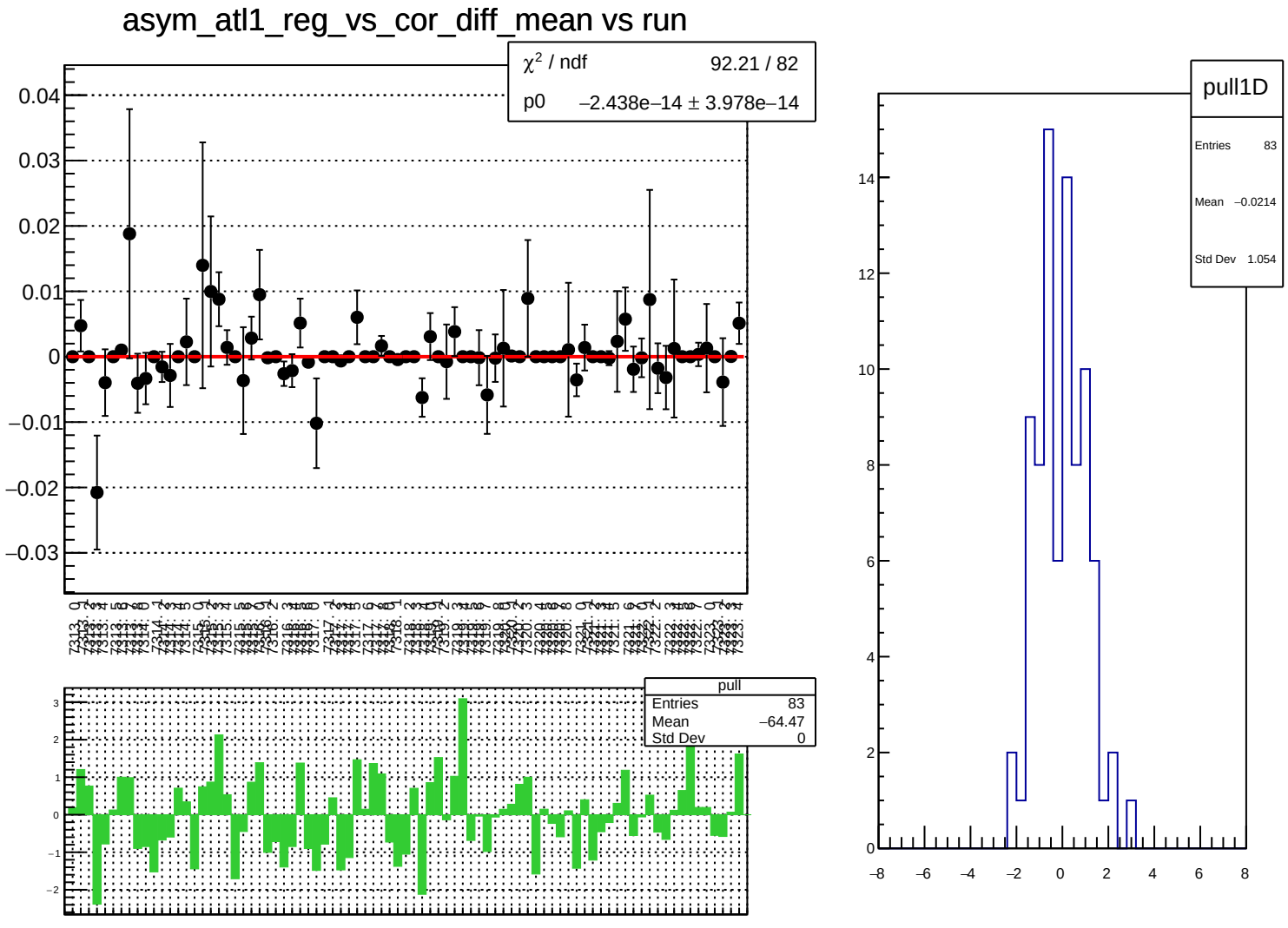

pull1D
Entries 83
Mean −0.006592
Std Dev 1.045

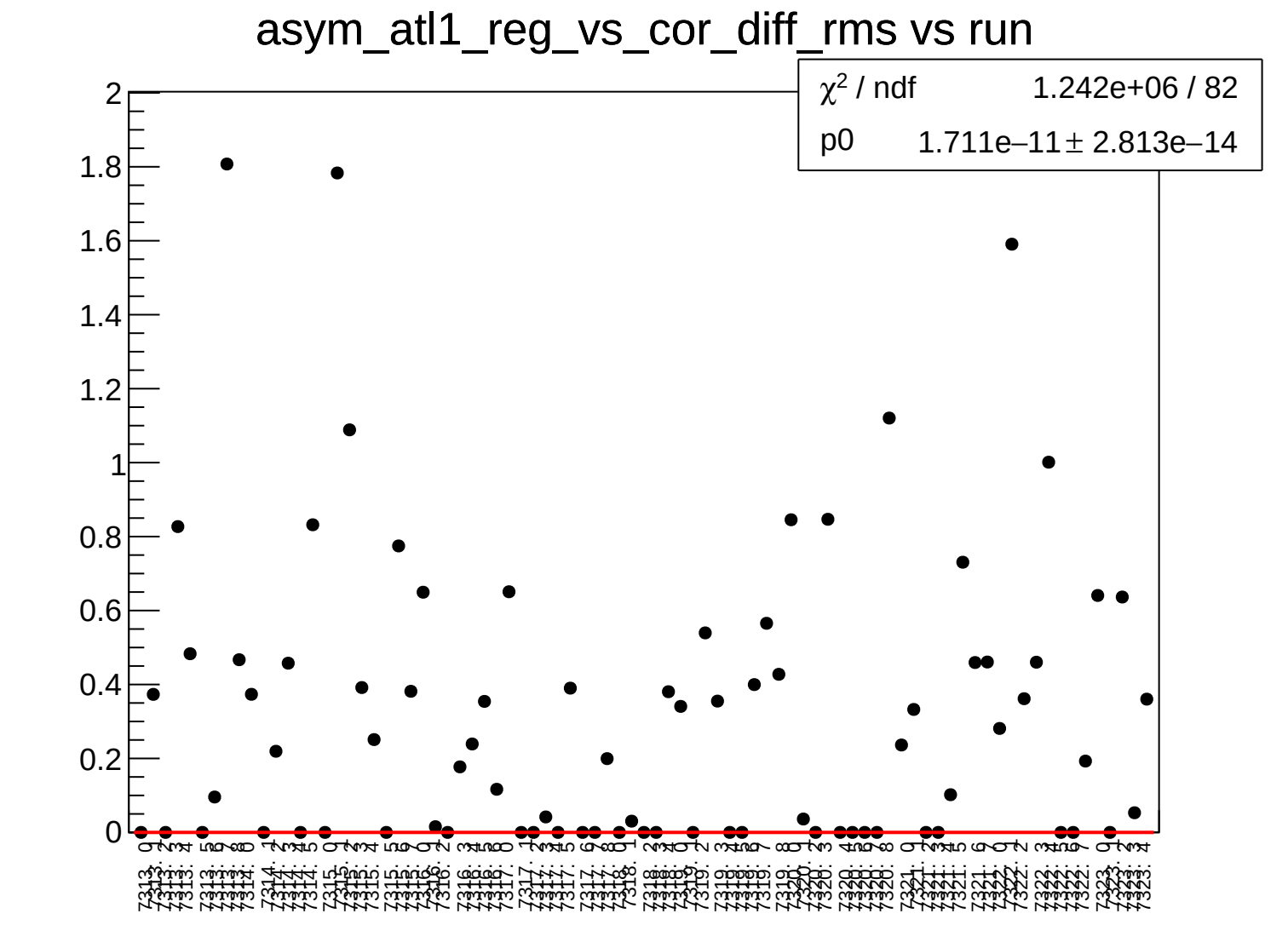

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 82
p0 716.7 ± 0.5671
900
850
800
750
700
650
600
550

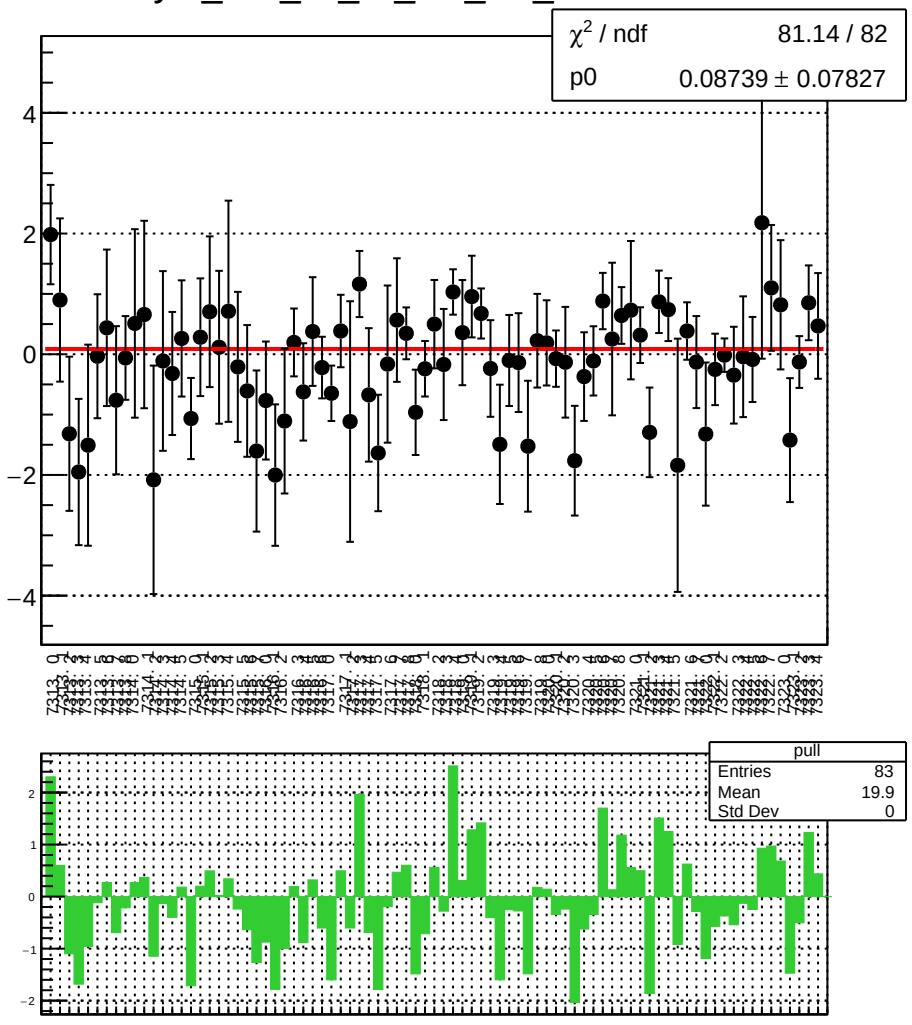

asym_atl1_mean vs run
×10^3
χ² / ndf 87.43 / 82
p0 987.5 ± 2734
pull
Entries 83
Mean 2717
Std Dev 0

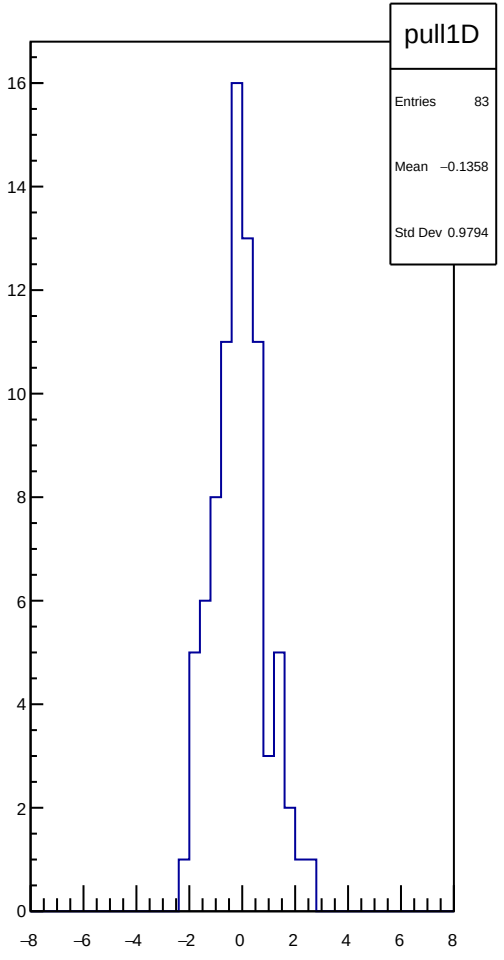

pull1D
Entries 83
Mean −0.001473
Std Dev 1.026

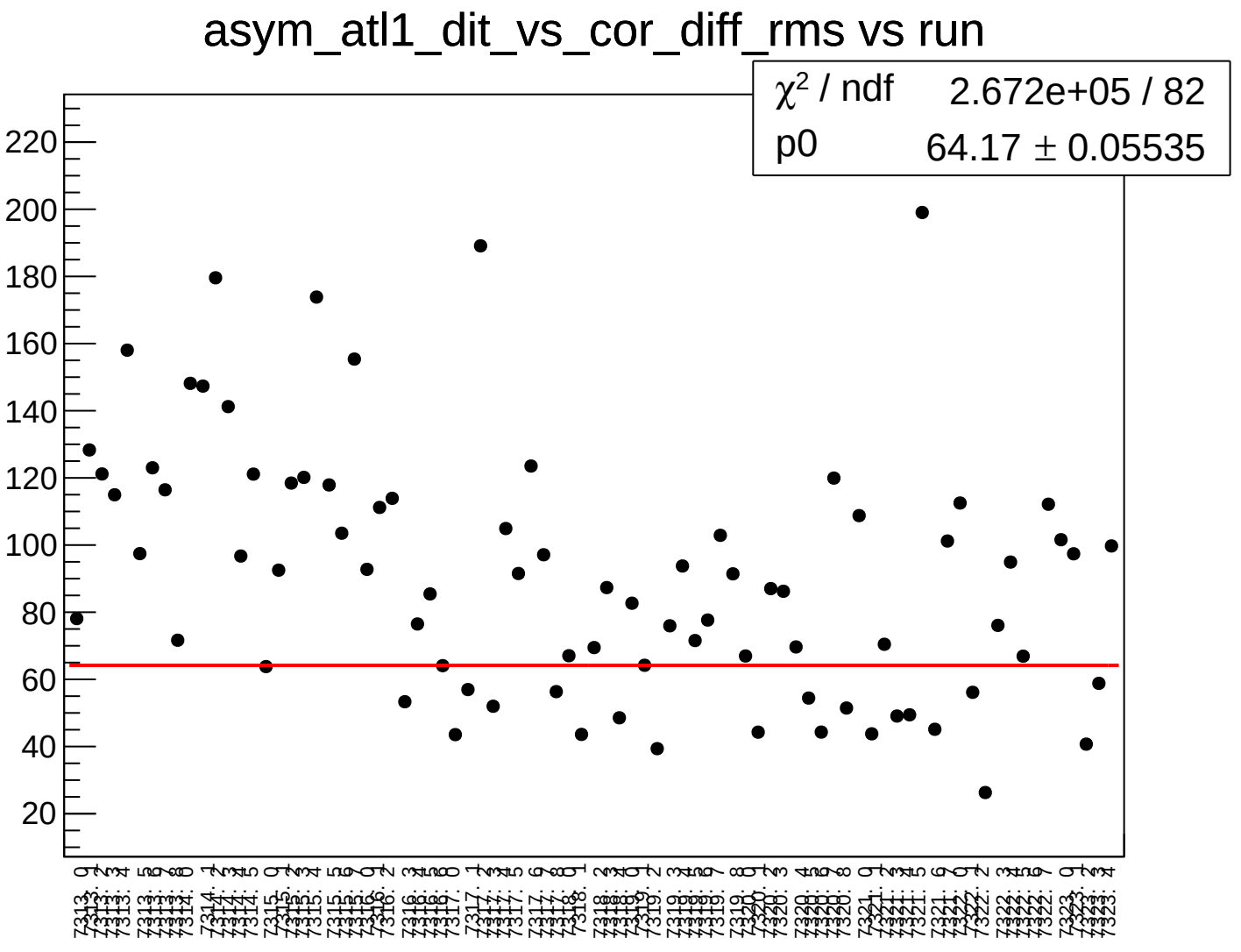

asym_atl1_rms vs run
χ² / ndf 260.9 / 82
p0 2454 ± 1.933
2560
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360

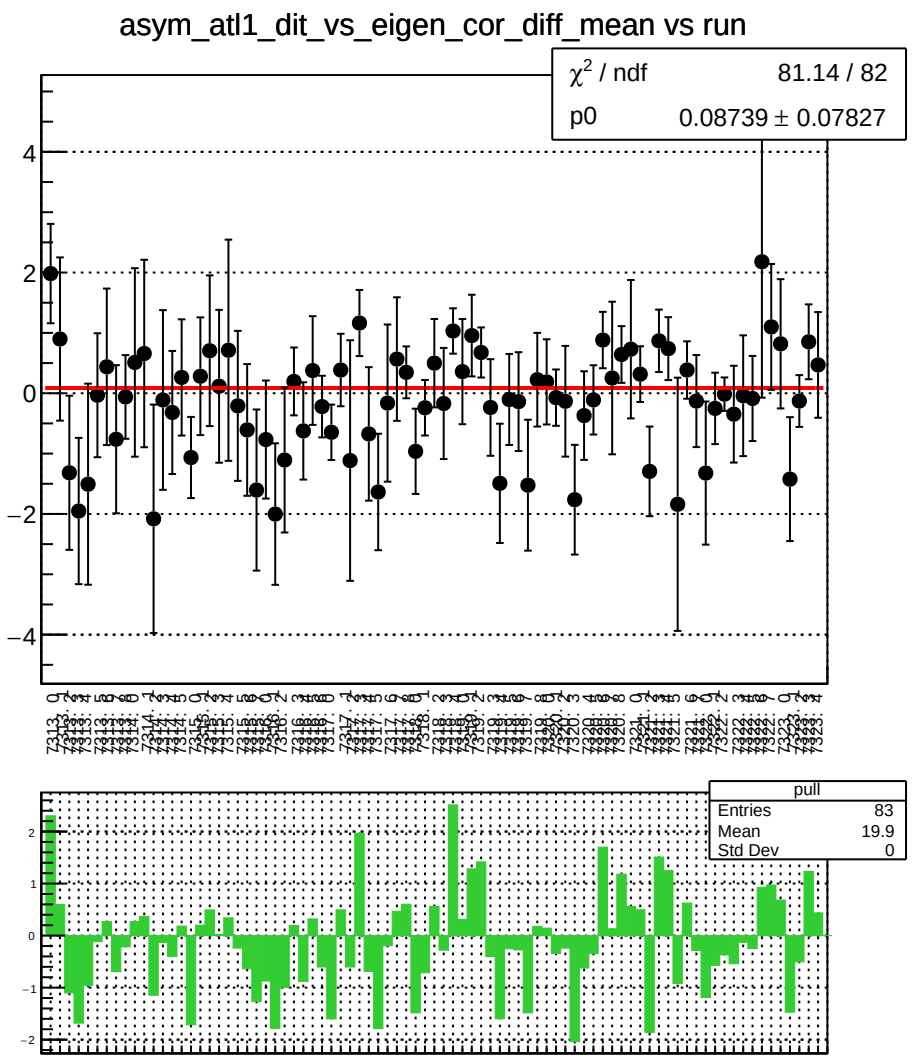

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 82
p0 −2.438e−14 ± 3.978e−14
pull
Entries 83
Mean −64.47
Std Dev 0
pull1D
Entries 83
Mean −0.0214
Std Dev 1.054

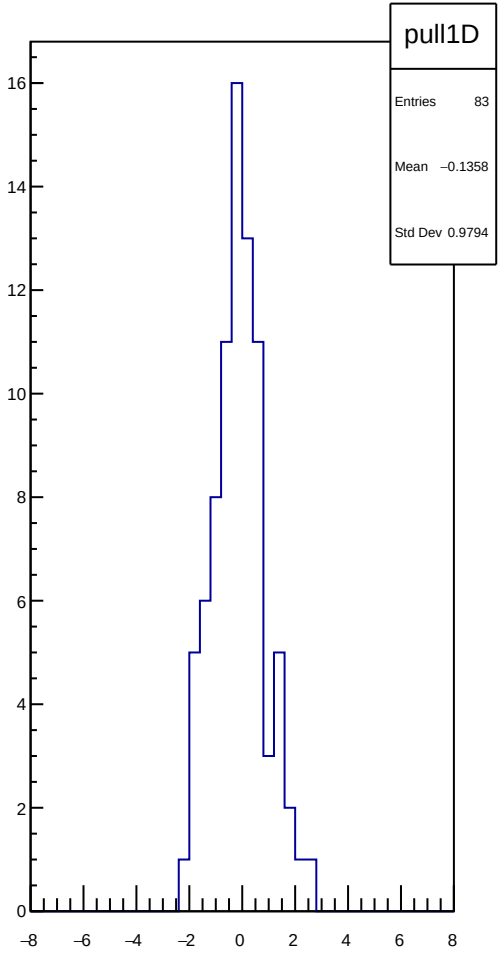

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.242e+06 / 82
p0 1.711e−11 ± 2.813e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

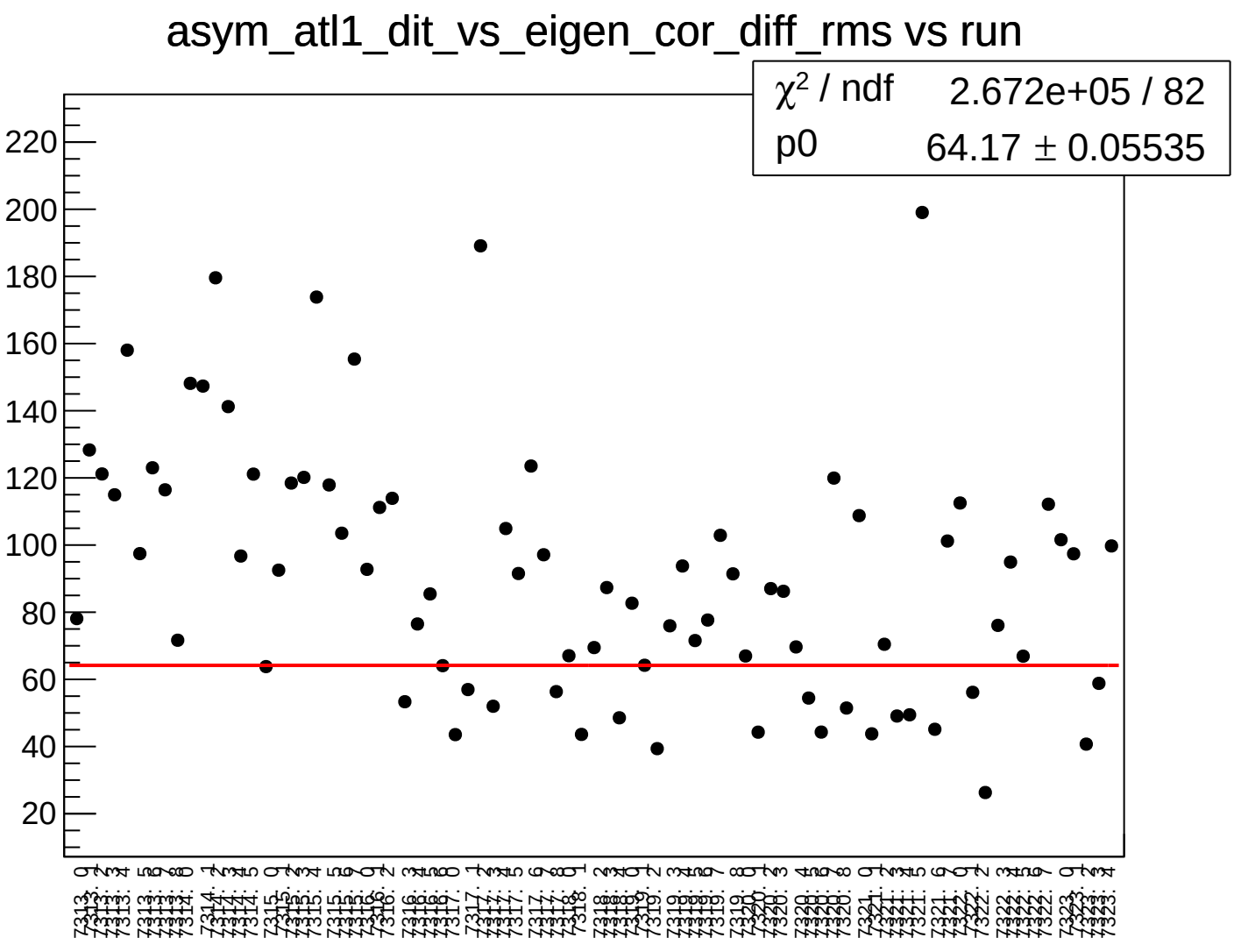

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 81.14 / 82
p0 0.08739 ± 0.07827
pull
Entries 83
Mean 19.9
Std Dev 0

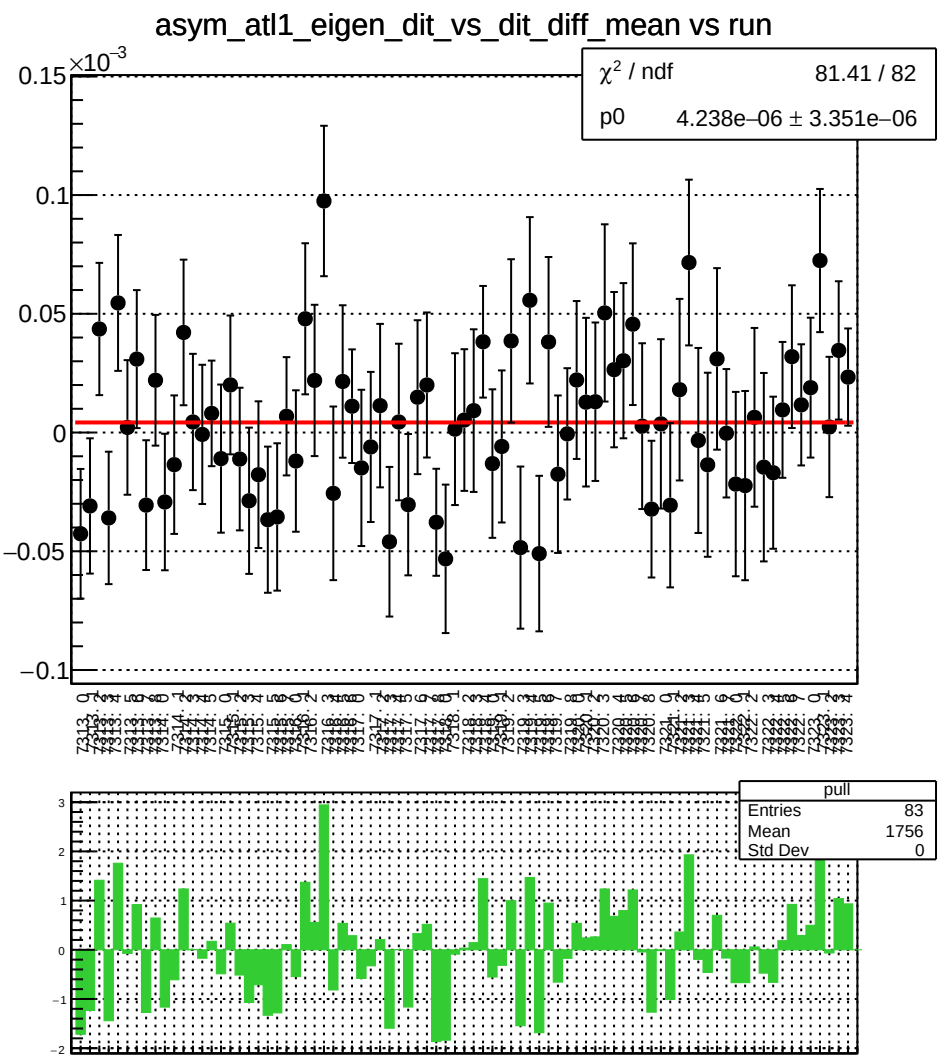

pull1D
Entries 83
Mean −0.1358
Std Dev 0.9794

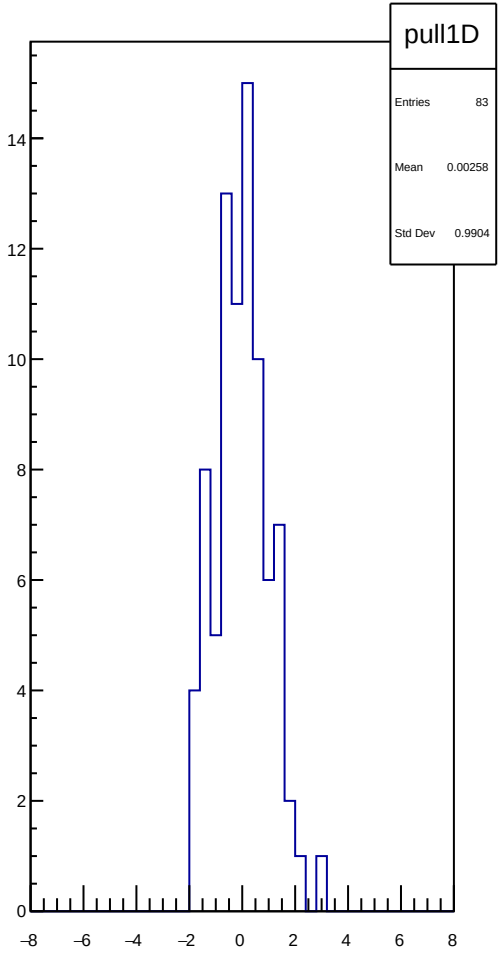

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.672e+05 / 82
p0 64.17 ± 0.05535
220
200
180
160
140
120
100
80
60
40
20

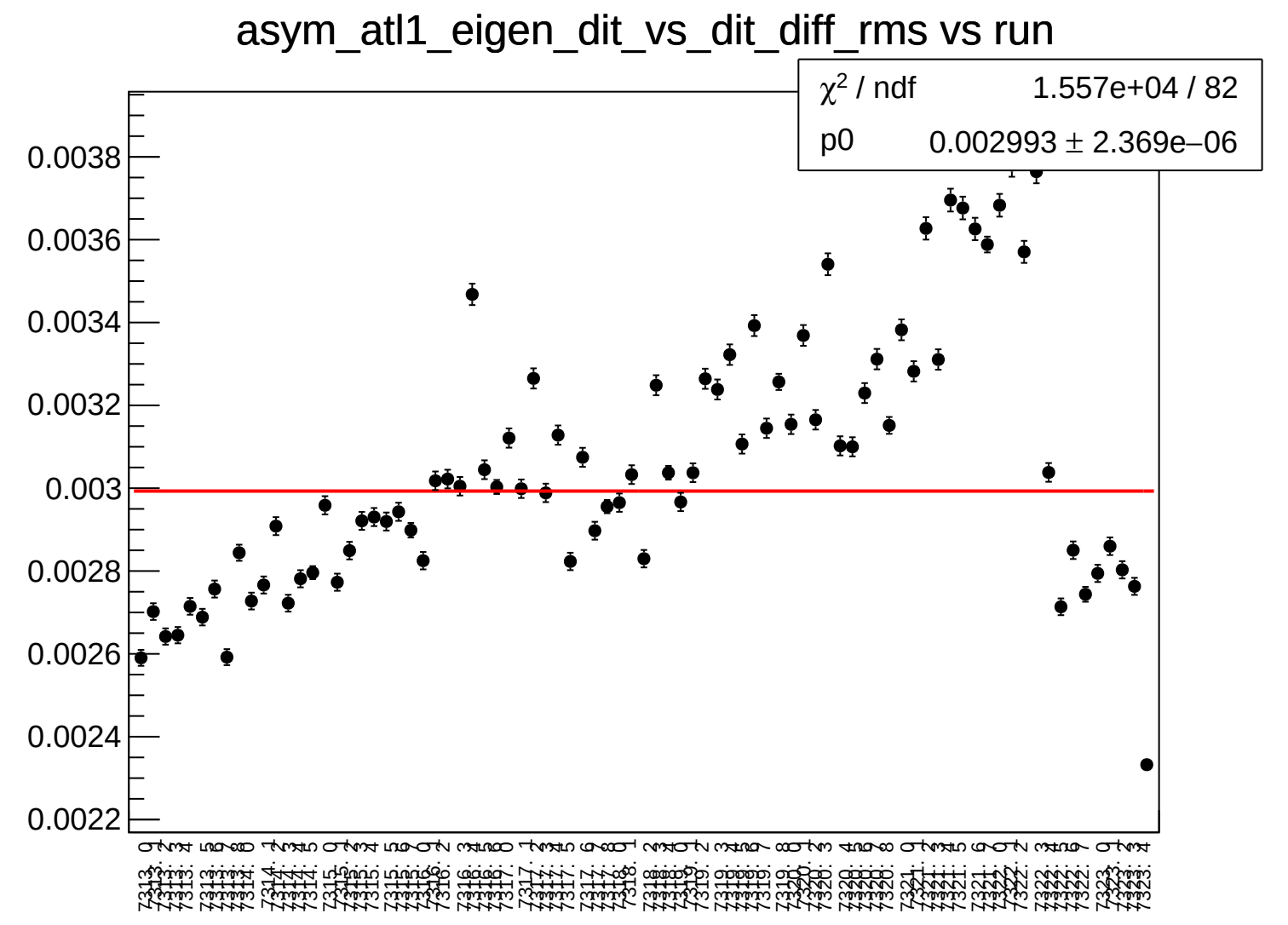

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.14 / 82
p0 0.08739 ± 0.07827
pull
Entries 83
Mean 19.9
Std Dev 0

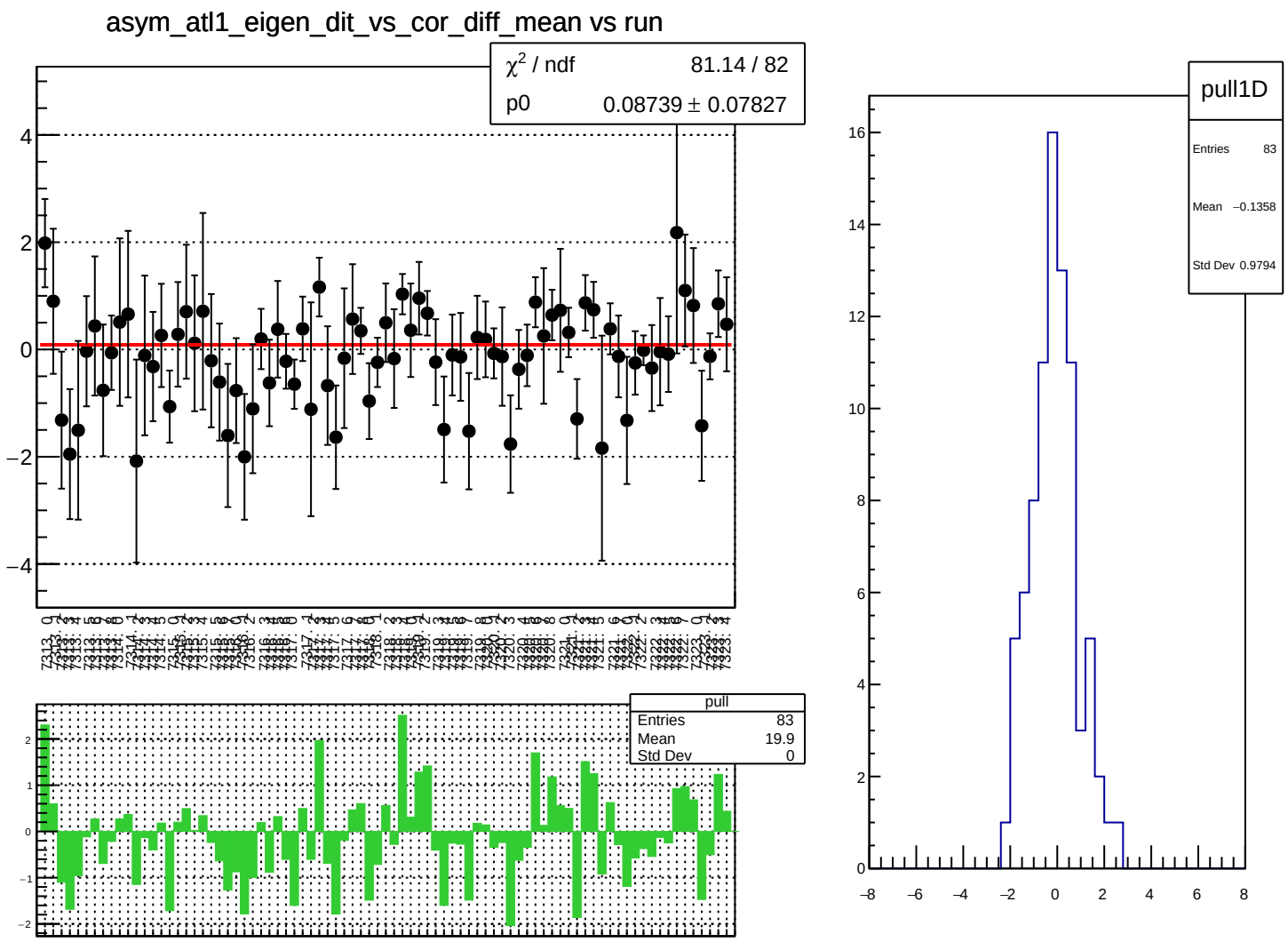

pull1D
Entries 83
Mean −0.1358
Std Dev 0.9794

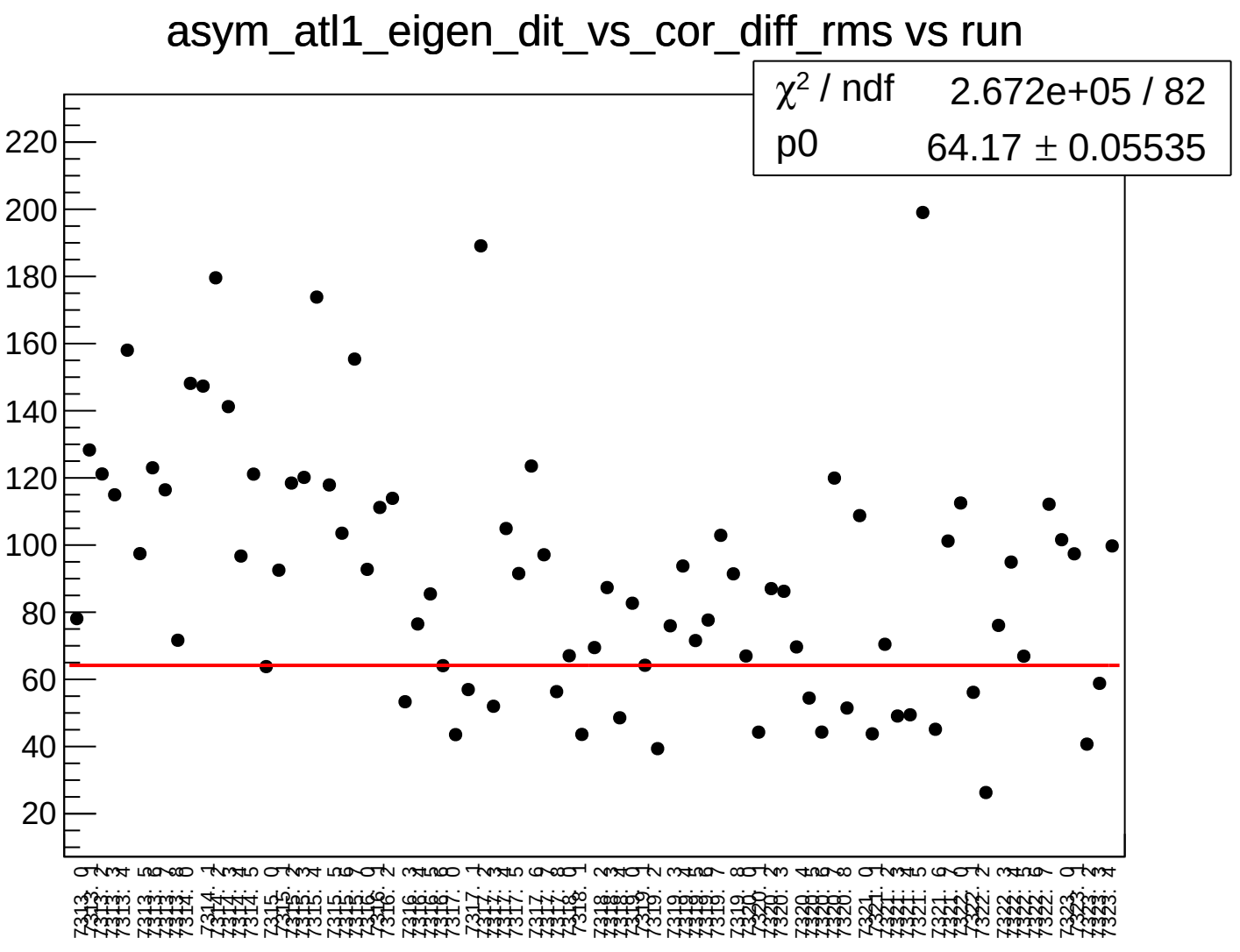

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.672e+05 / 82
p0 64.17 ± 0.05535
220
200
180
160
140
120
100
80
60
40
20

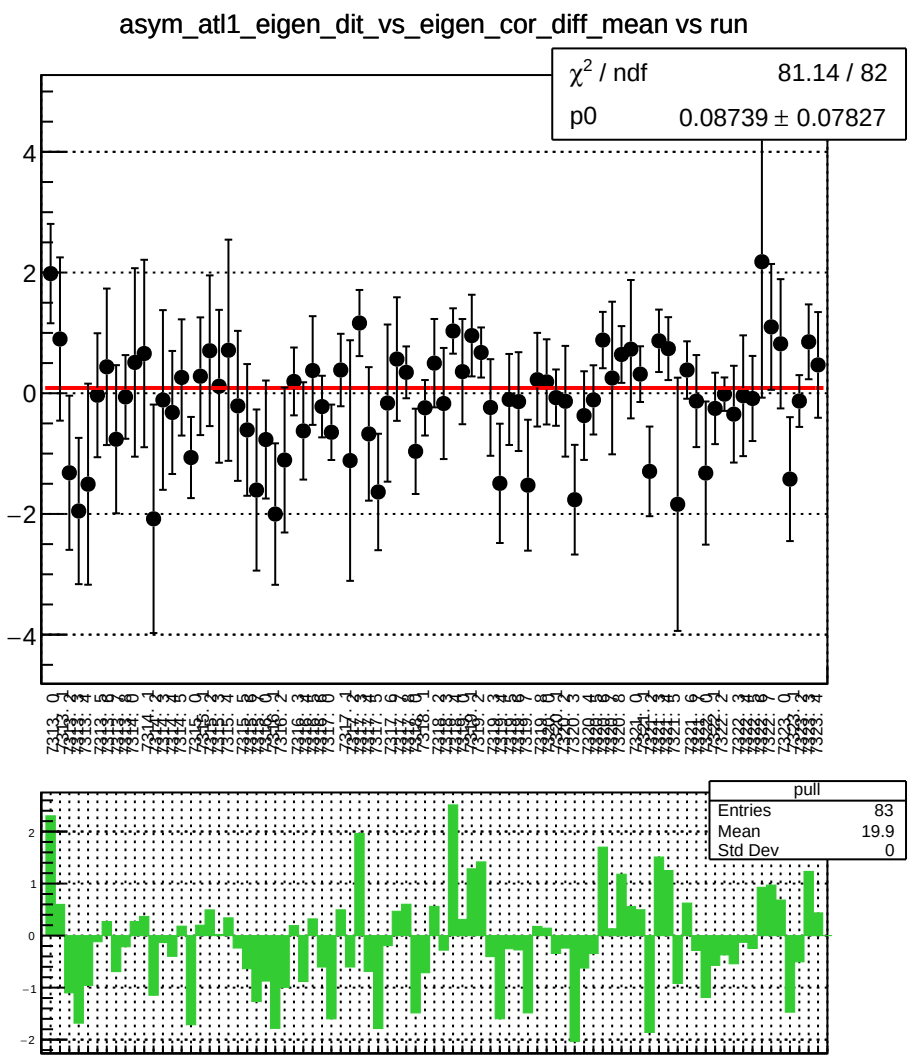

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.41 / 82
p0 4.238e−06 ± 3.351e−06
×10⁻³
pull
Entries 83
Mean 1756
Std Dev 0

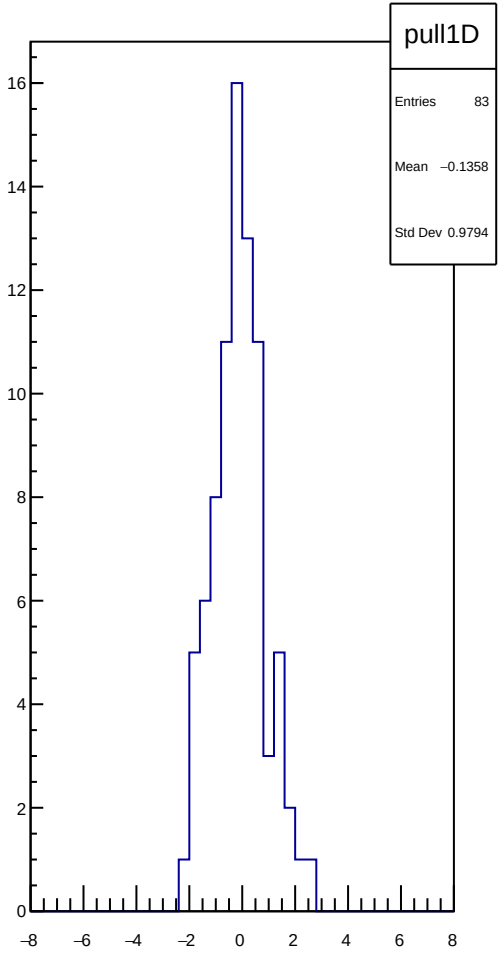

pull1D
Entries 83
Mean 0.00258
Std Dev 0.9904

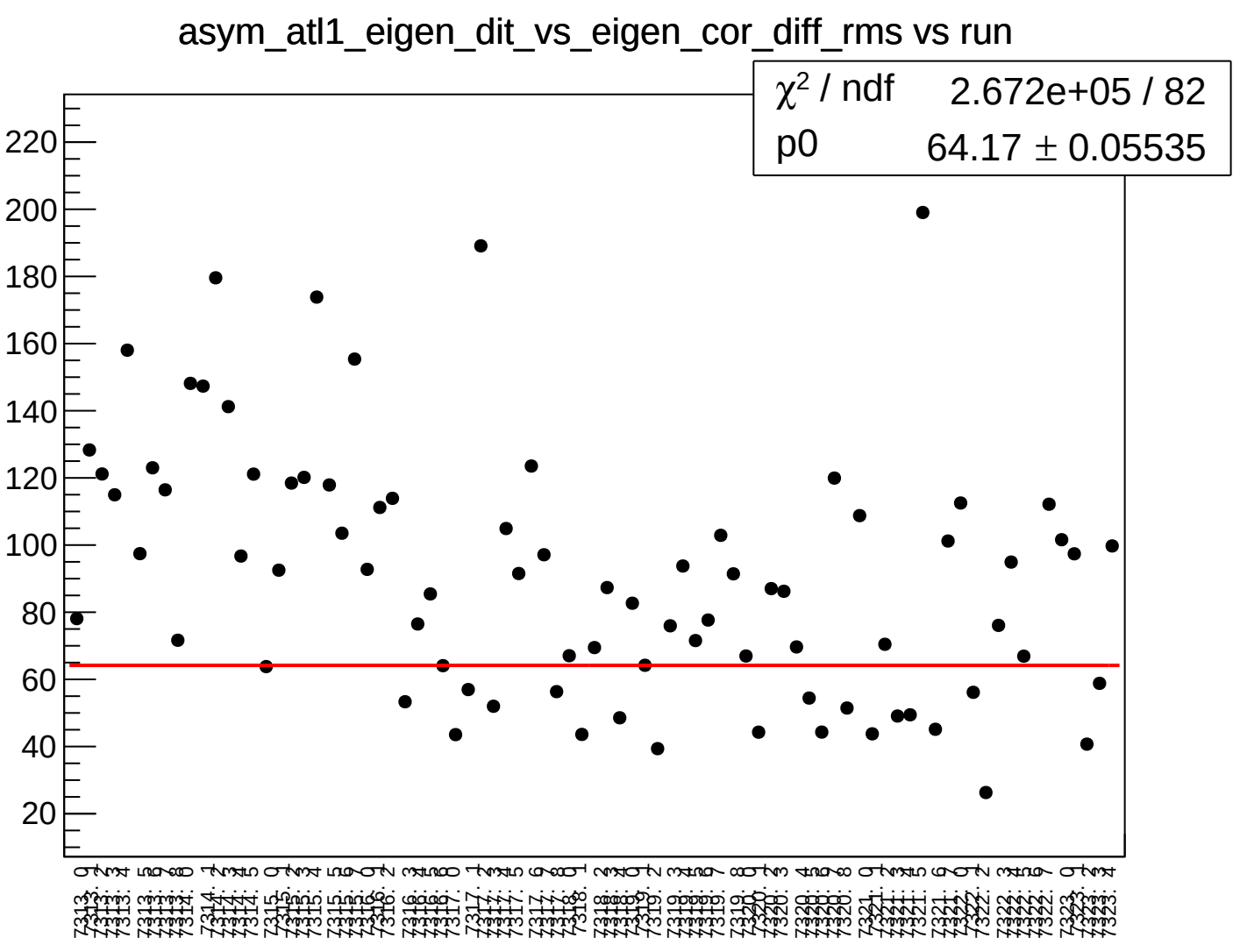

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.557e+04 / 82
p0 0.002993 ± 2.369e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

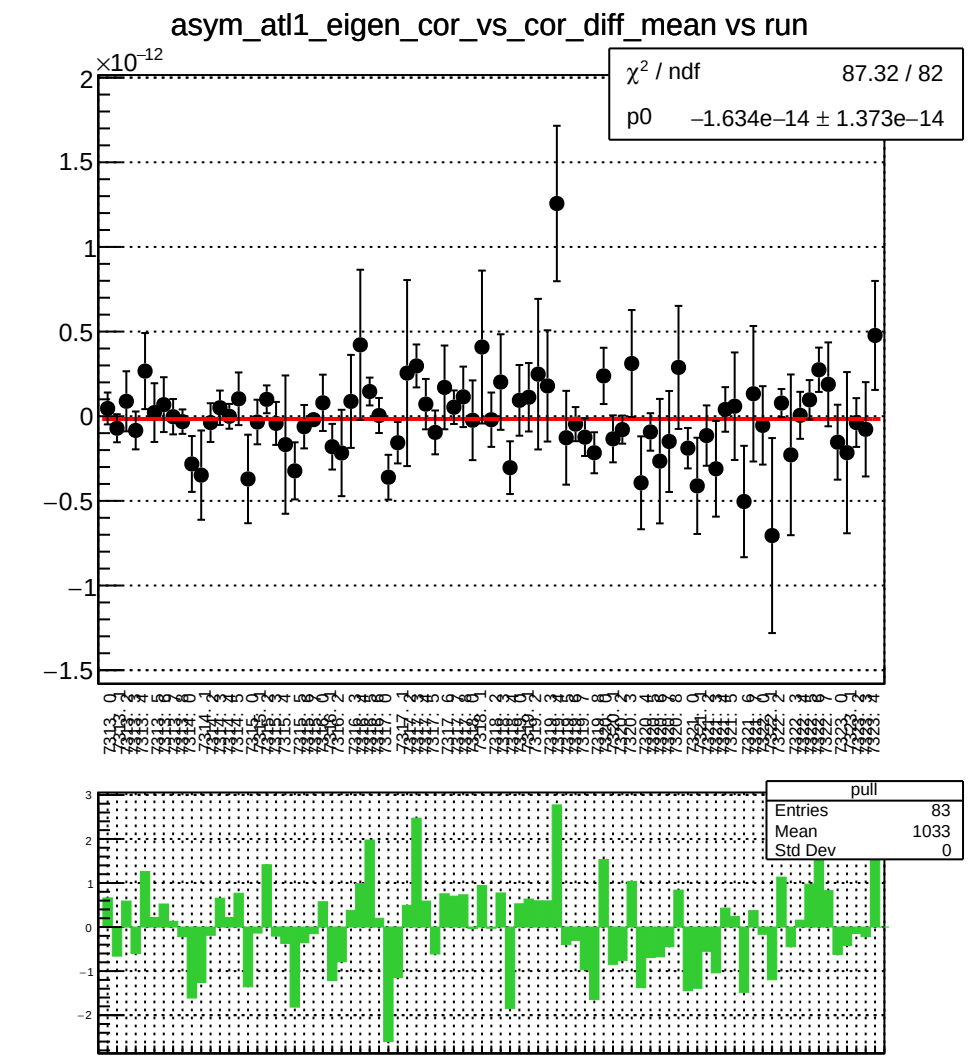

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.14 / 82
p0 0.08739 ± 0.07827
pull
Entries 83
Mean 19.9
Std Dev 0
pull1D
Entries 83
Mean −0.1358
Std Dev 0.9794

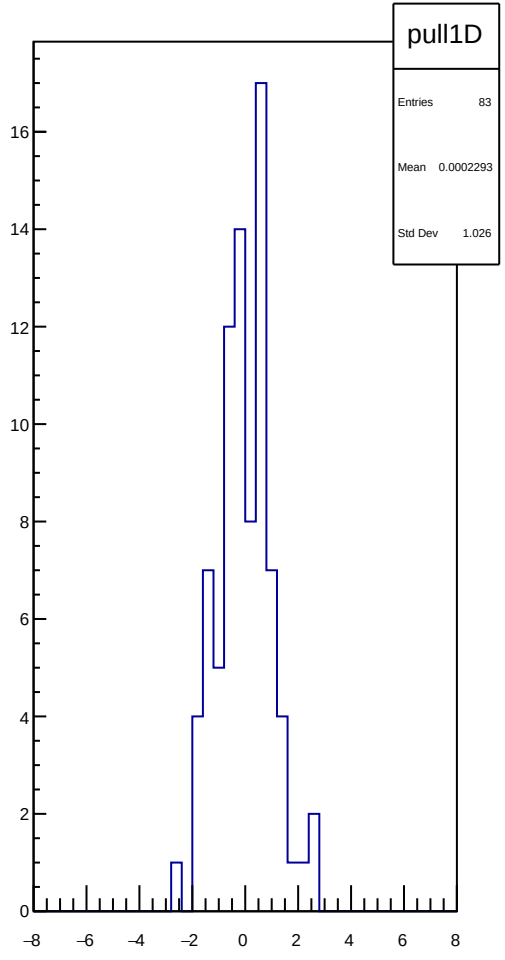

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.672e+05 / 82
p0 64.17 ± 0.05535
220
200
180
160
140
120
100
80
60
40
20

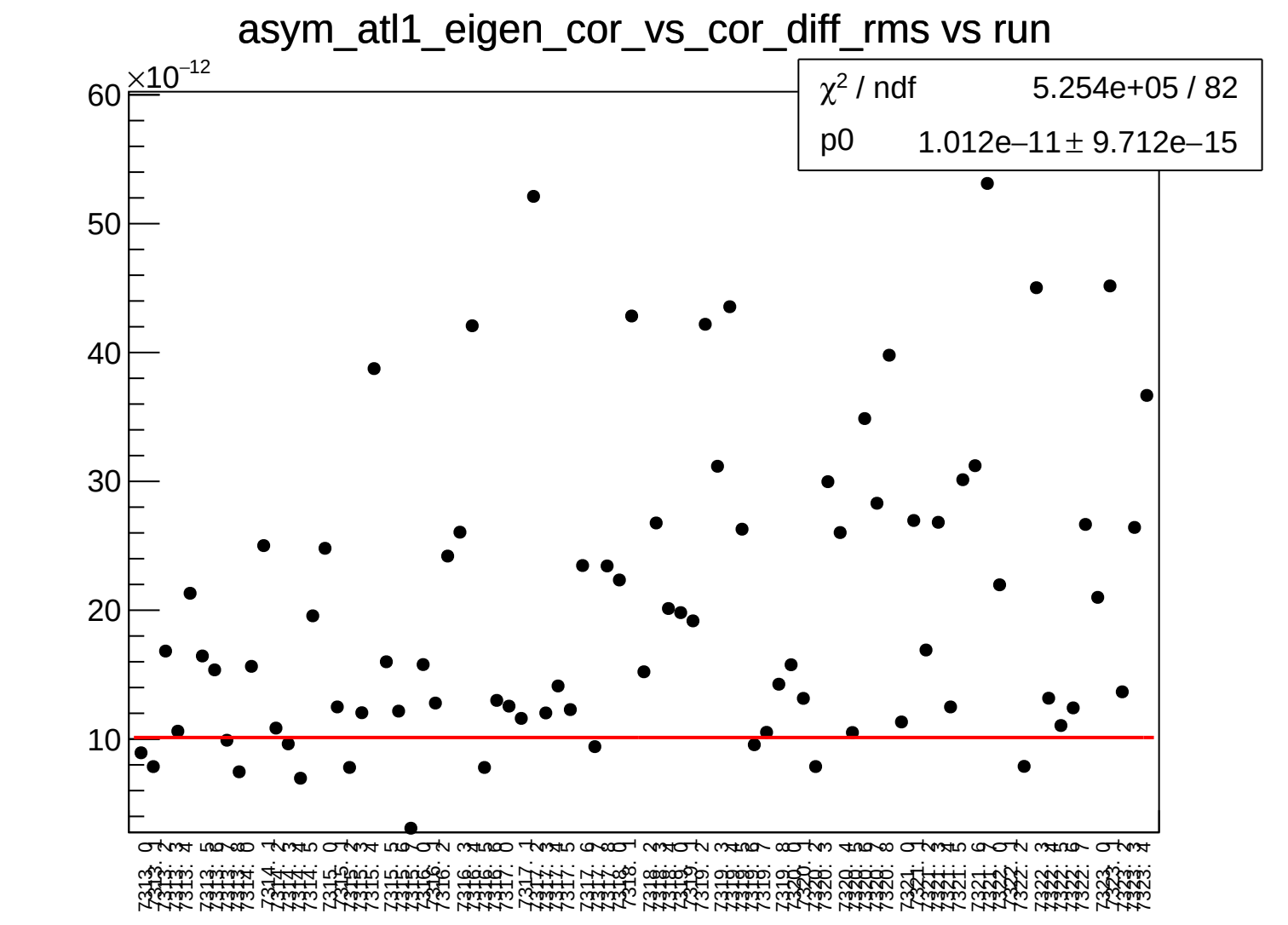

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.14 / 82
p0 0.08739 ± 0.07827
pull
Entries 83
Mean 19.9
Std Dev 0

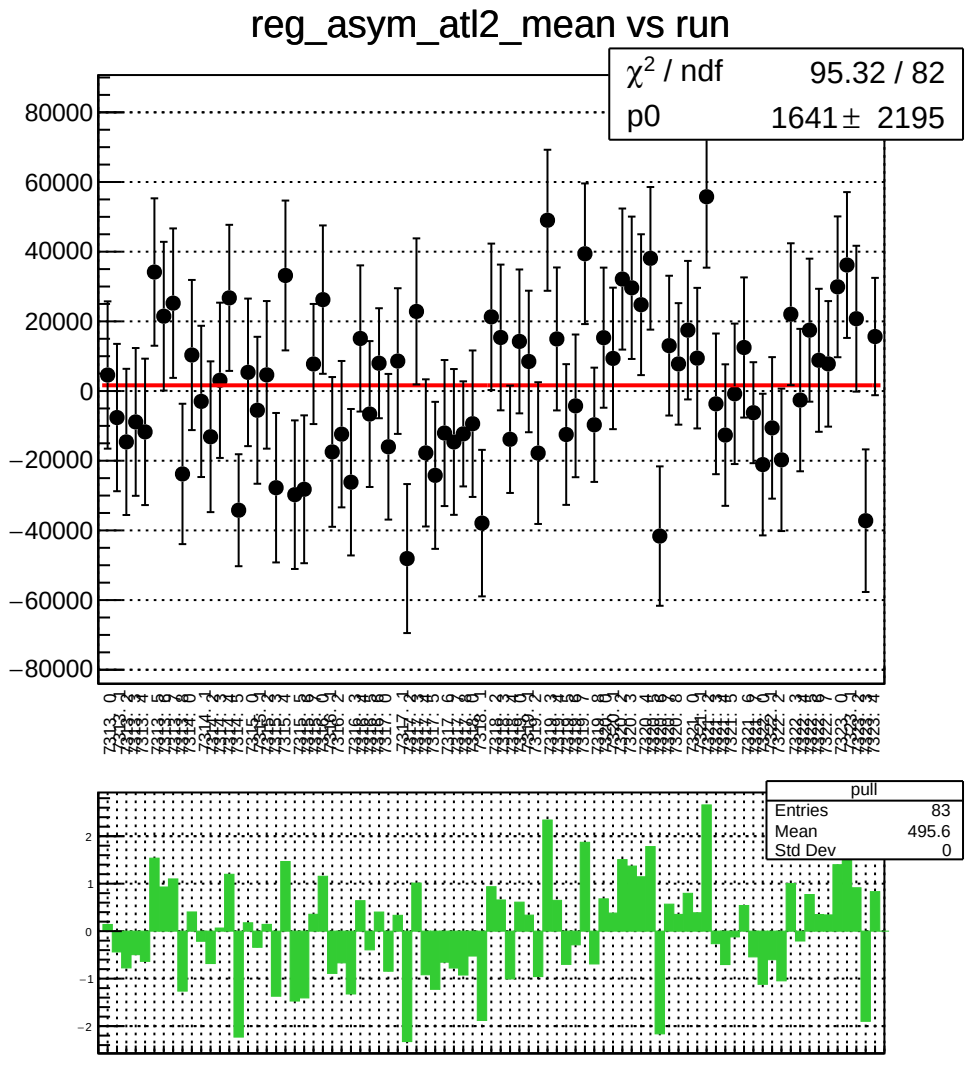

pull1D
Entries 83
Mean −0.1358
Std Dev 0.9794

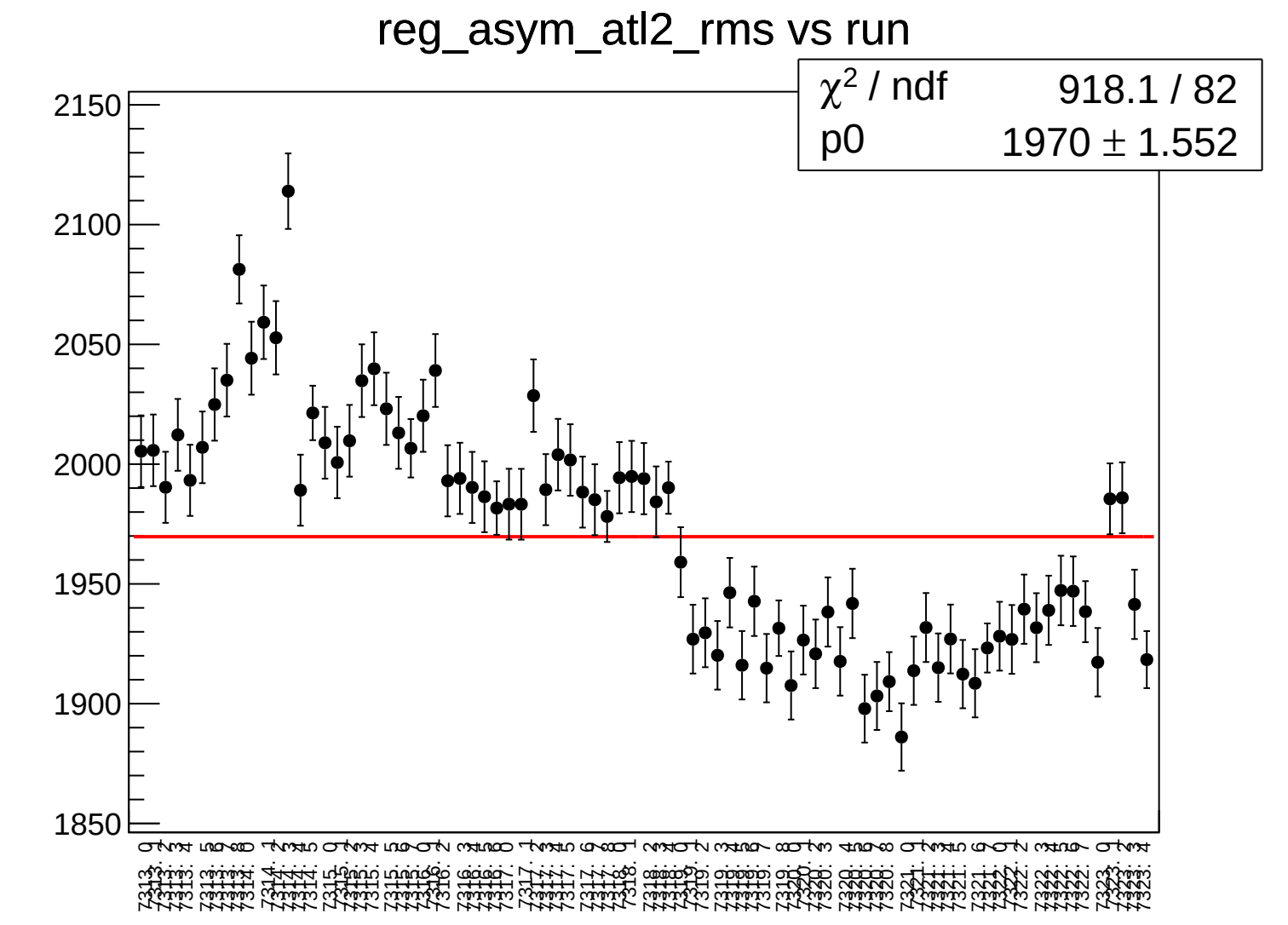

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.672e+05 / 82
p0 64.17 ± 0.05535
220
200
180
160
140
120
100
80
60
40
20

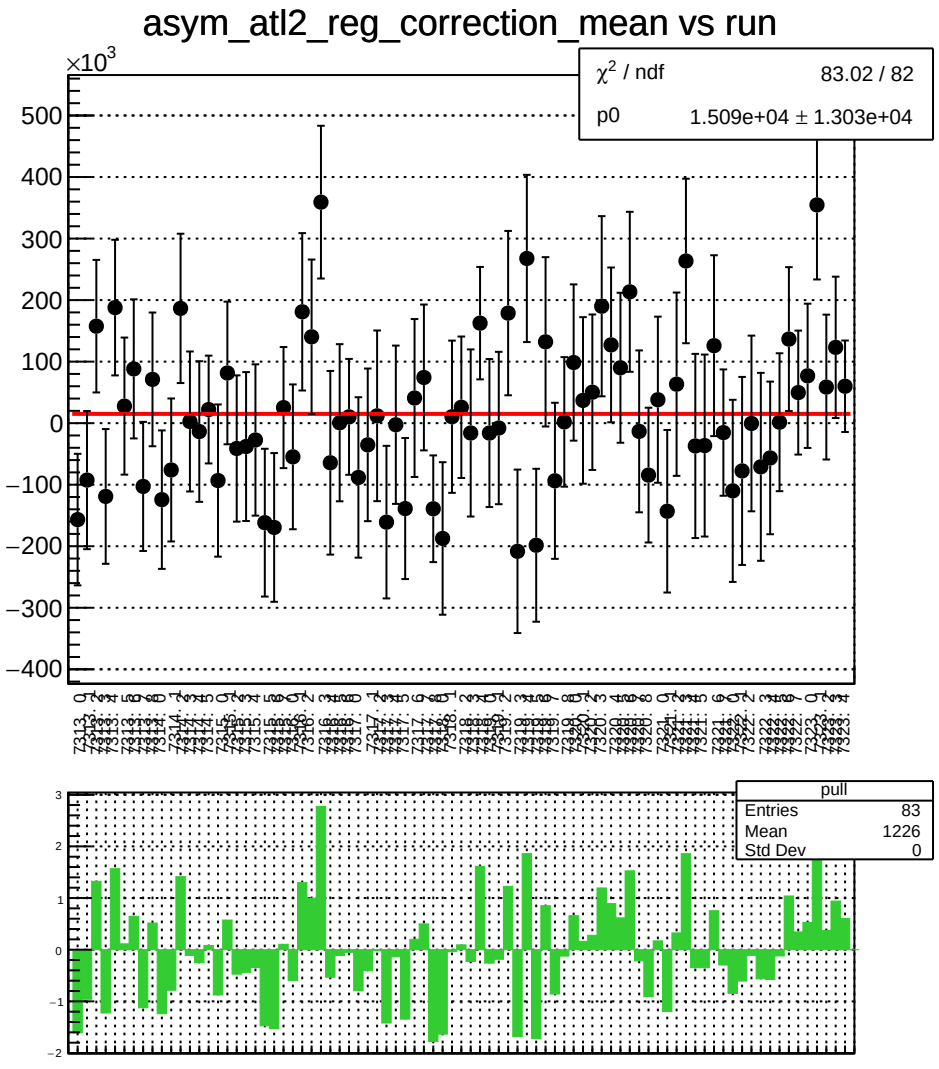

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.32 / 82
p0 −1.634e−14 ± 1.373e−14
pull
Entries 83
Mean 1033
Std Dev 0

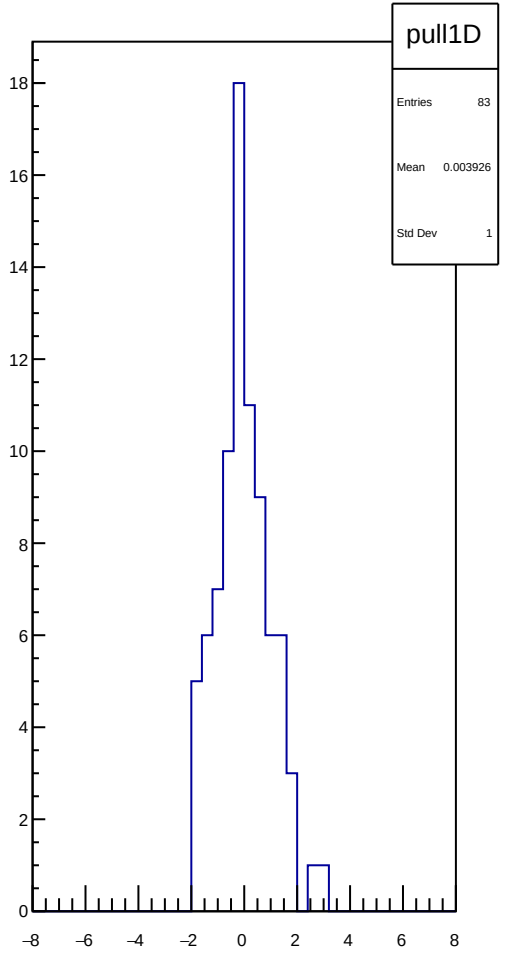

pull1D
Entries 83
Mean 0.0002293
Std Dev 1.026

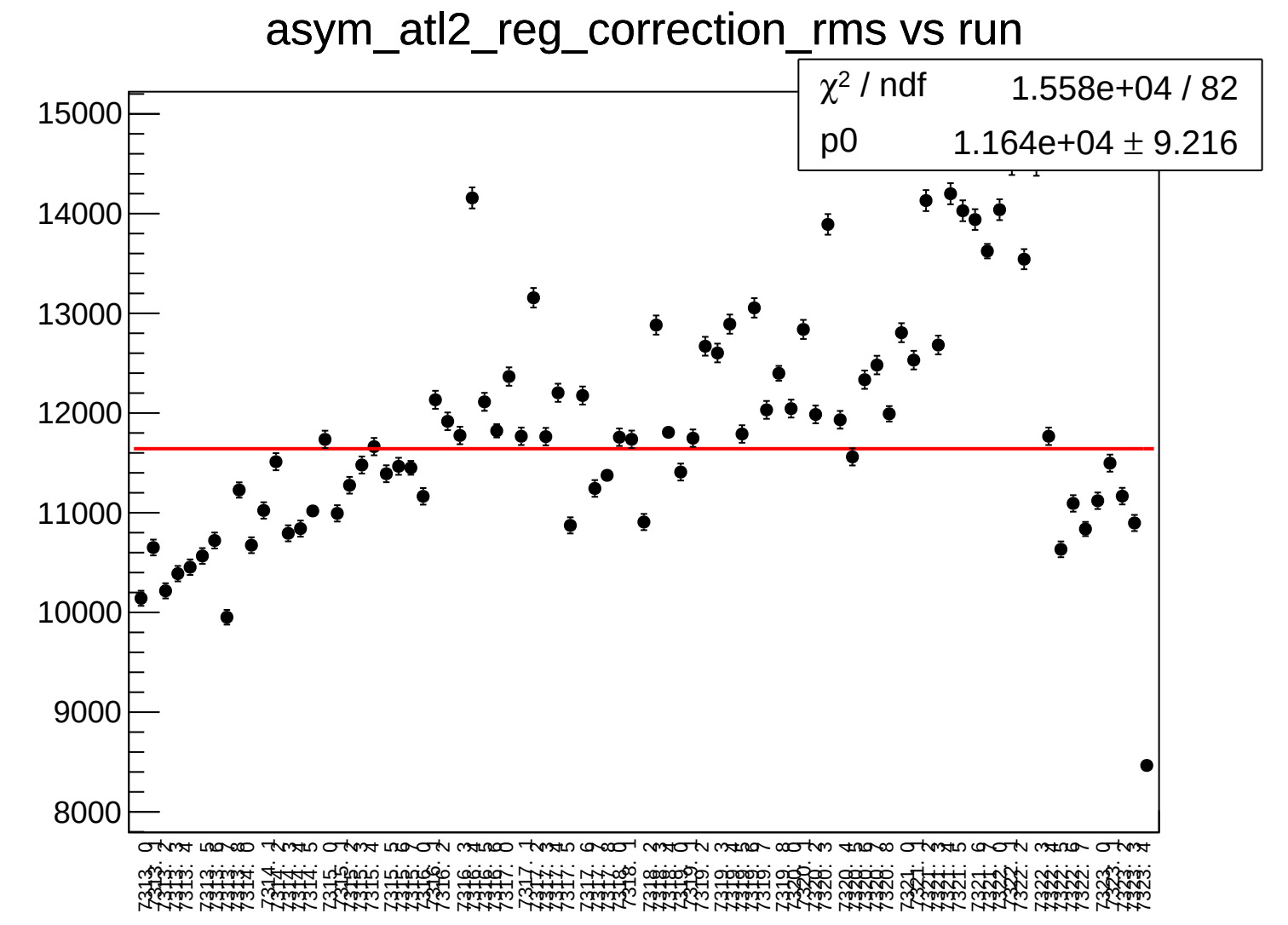

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.254e+05 / 82
p0 1.012e−11 ± 9.712e−15

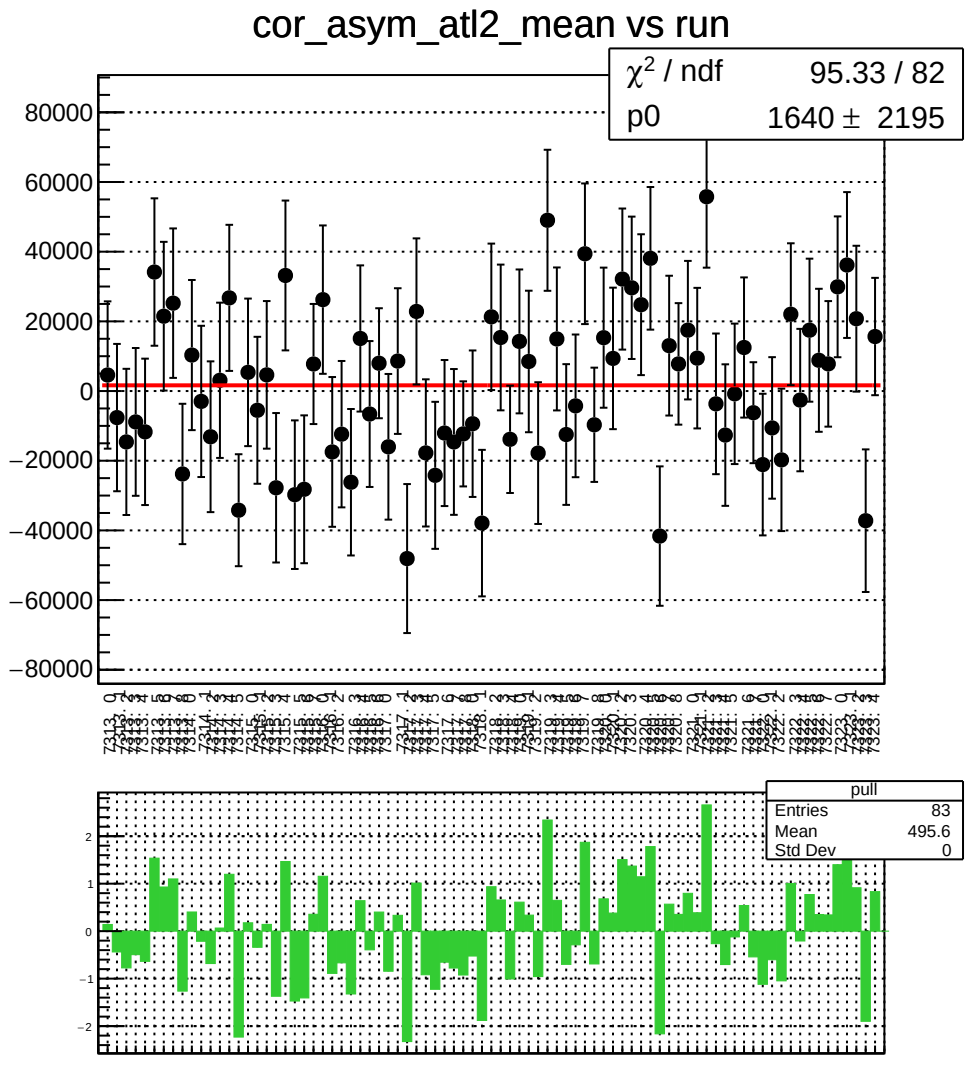

reg_asym_atl2_mean vs run
χ² / ndf 95.32 / 82
p0 1641 ± 2195
pull
Entries 83
Mean 495.6
Std Dev 0
pull1D
Entries 83
Mean 0.01097
Std Dev 1.072

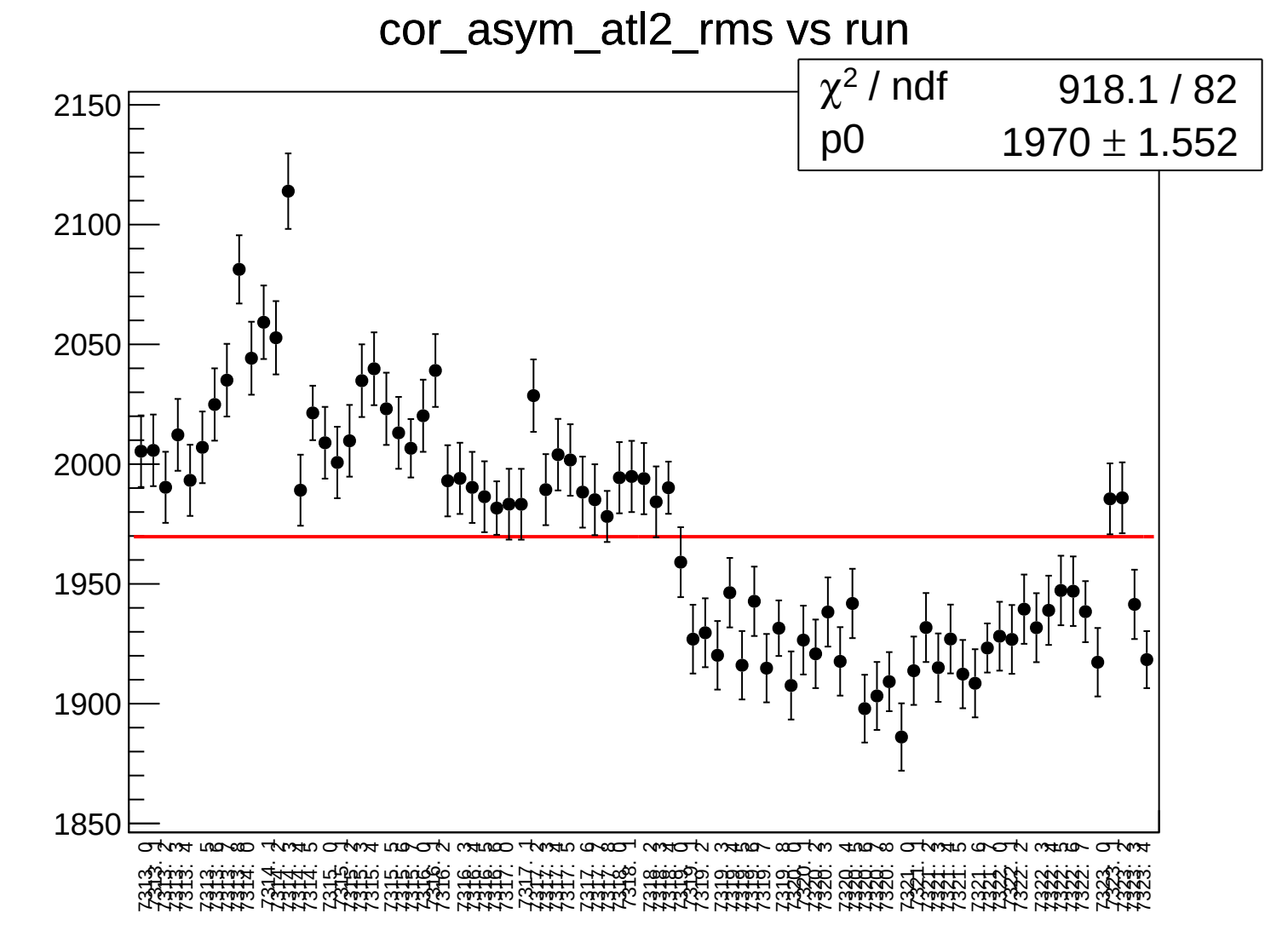

reg_asym_atl2_rms vs run
χ² / ndf 918.1 / 82
p0 1970 ± 1.552
2150
2100
2050
2000
1950
1900
1850

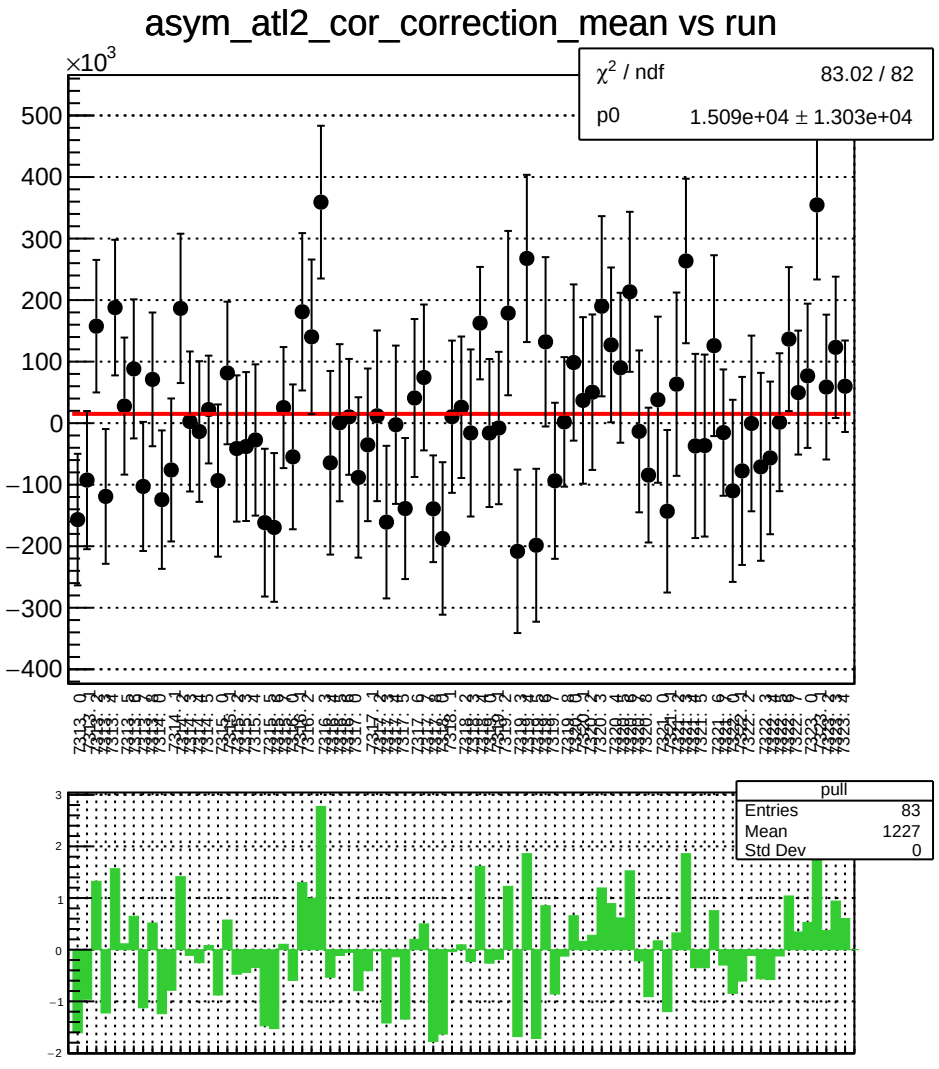

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 83.02 / 82
p0 1.509e+04 ± 1.303e+04
pull
Entries 83
Mean 1226
Std Dev 0

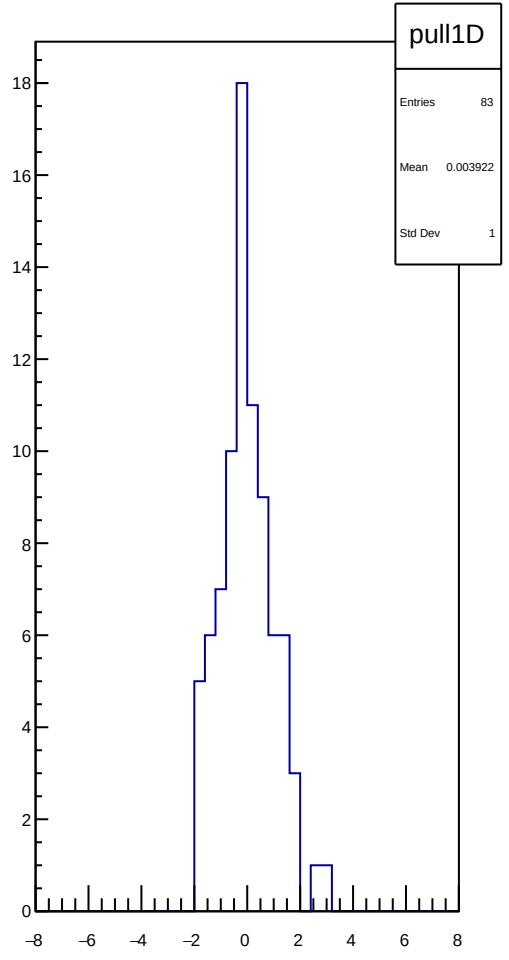

pull1D
Entries 83
Mean 0.003926
Std Dev 1

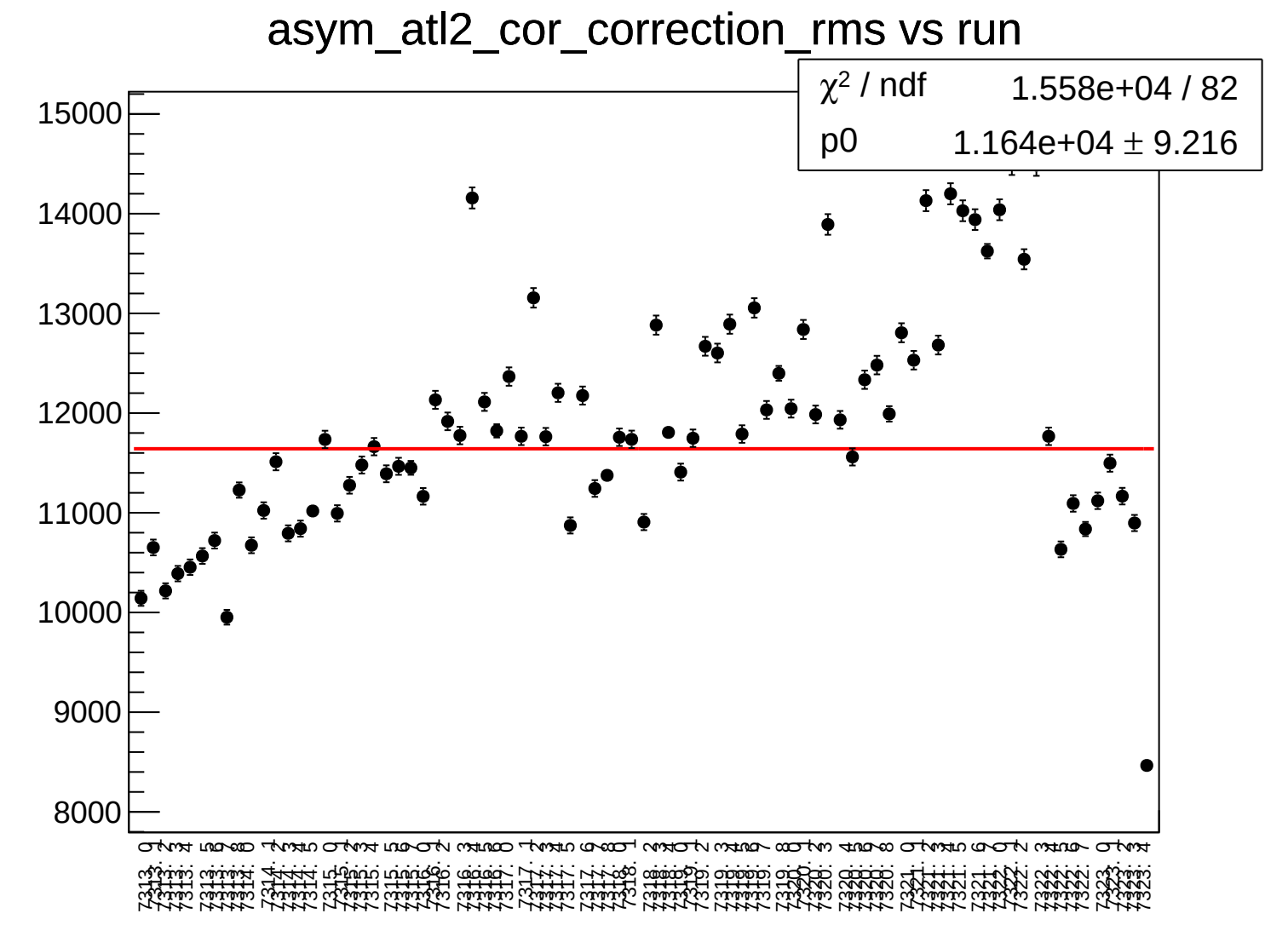

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.558e+04 / 82
p0 1.164e+04 ± 9.216
15000
14000
13000
12000
11000
10000
9000
8000

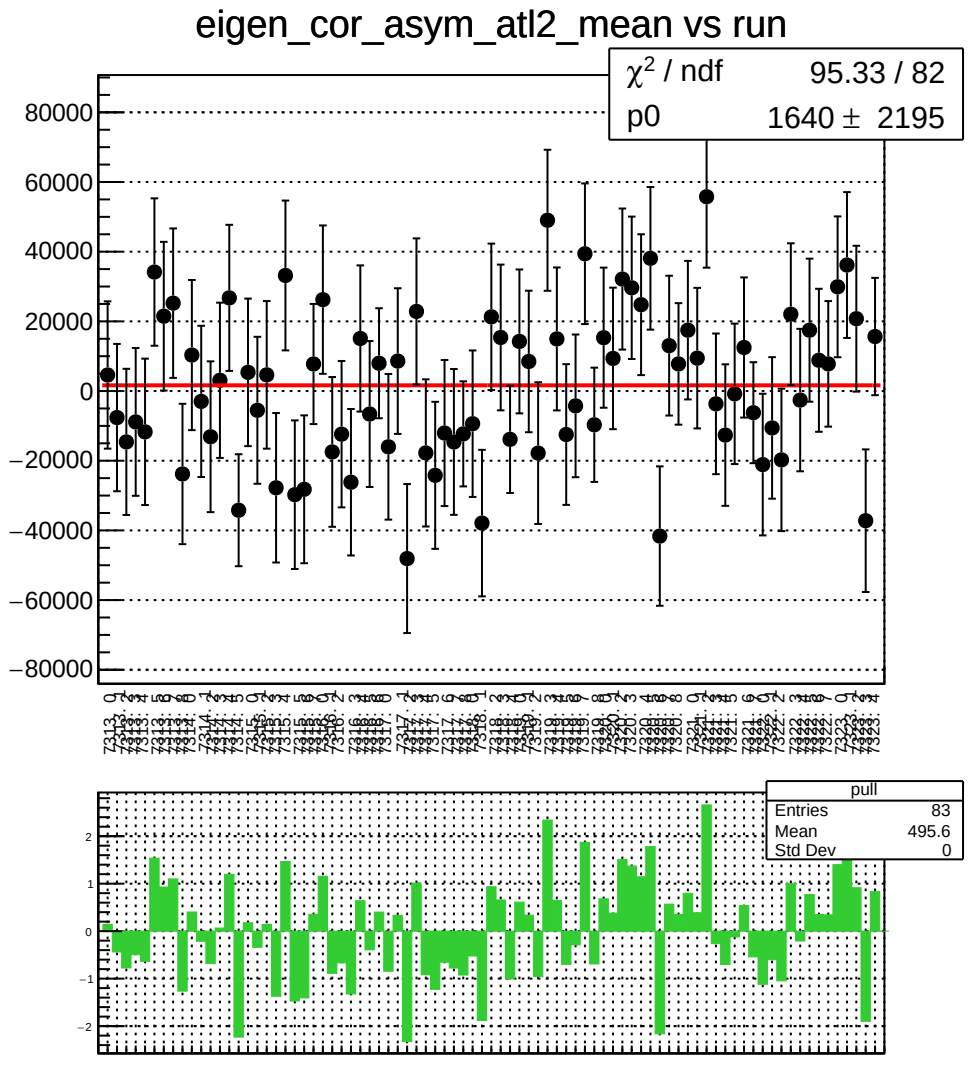

cor_asym_atl2_mean vs run
χ² / ndf 95.33 / 82
p0 1640 ± 2195
pull
Entries 83
Mean 495.6
Std Dev 0
pull1D
Entries 83
Mean 0.01097
Std Dev 1.072

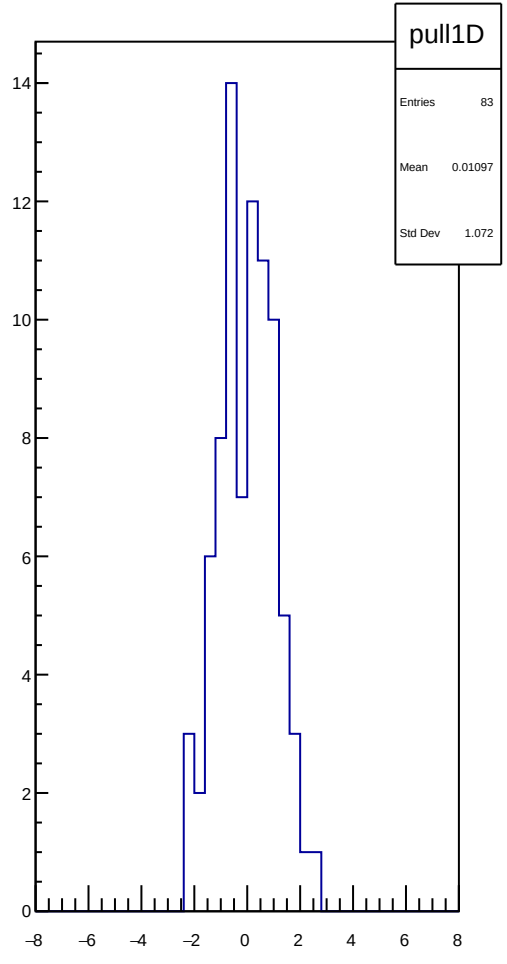

cor_asym_atl2_rms vs run
χ² / ndf 918.1 / 82
p0 1970 ± 1.552
2150
2100
2050
2000
1950
1900
1850

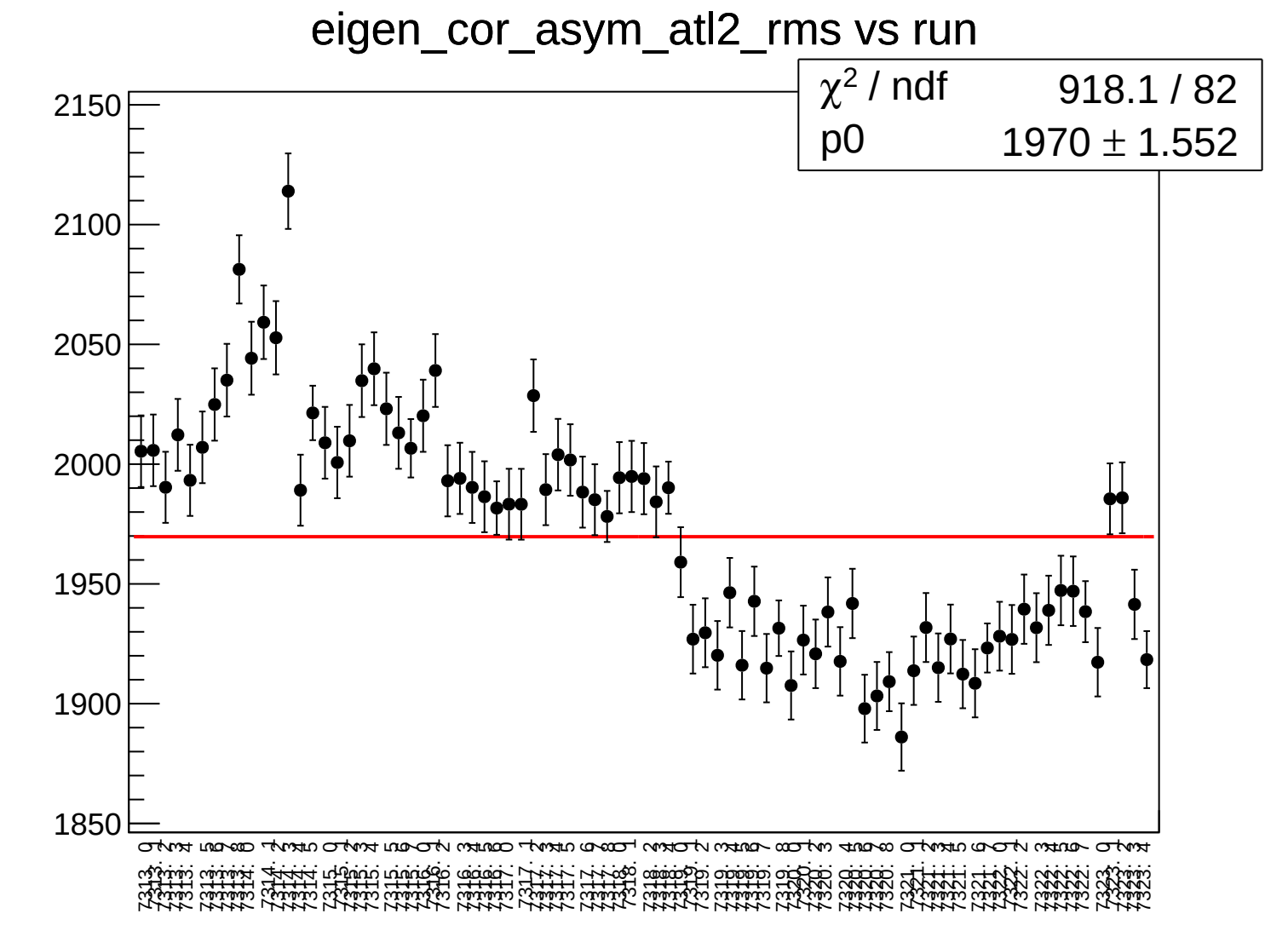

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 83.02 / 82
p0 1.509e+04 ± 1.303e+04
pull
Entries 83
Mean 1227
Std Dev 0

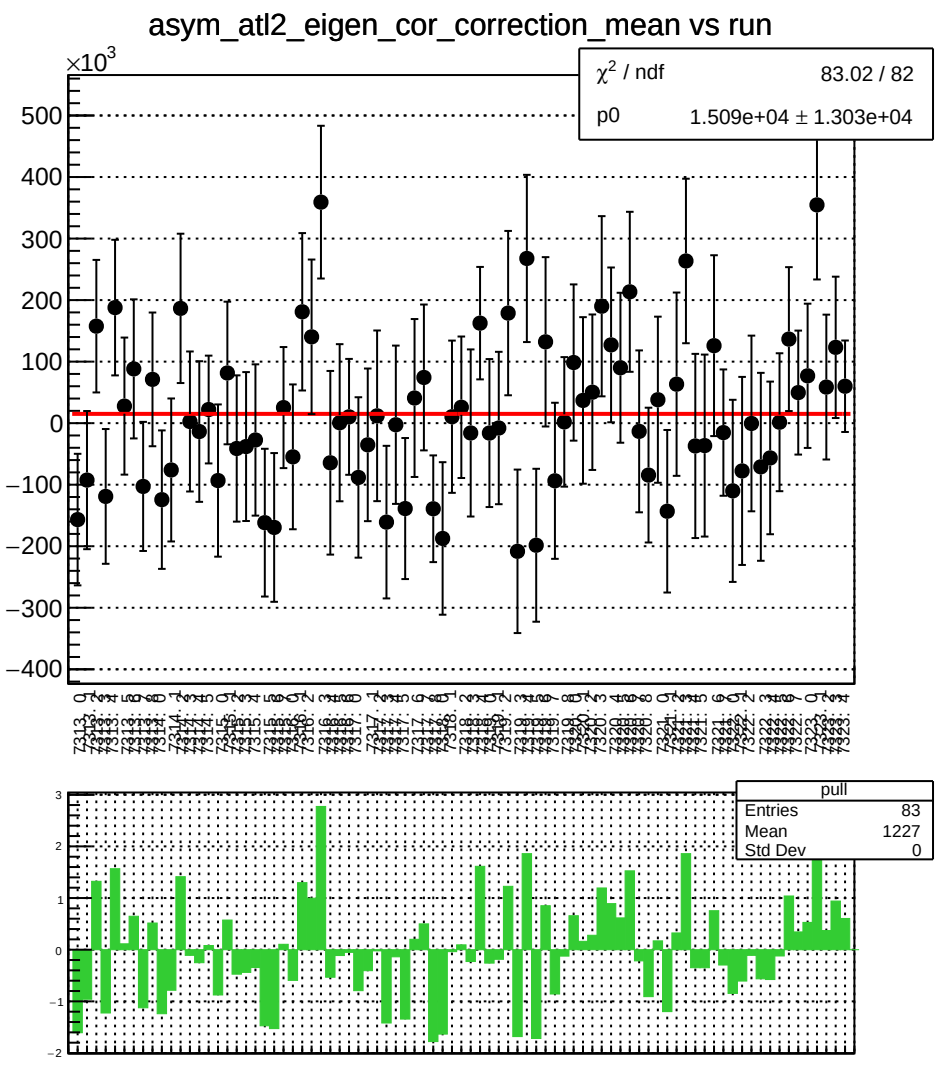

pull1D
Entries 83
Mean 0.003922
Std Dev 1

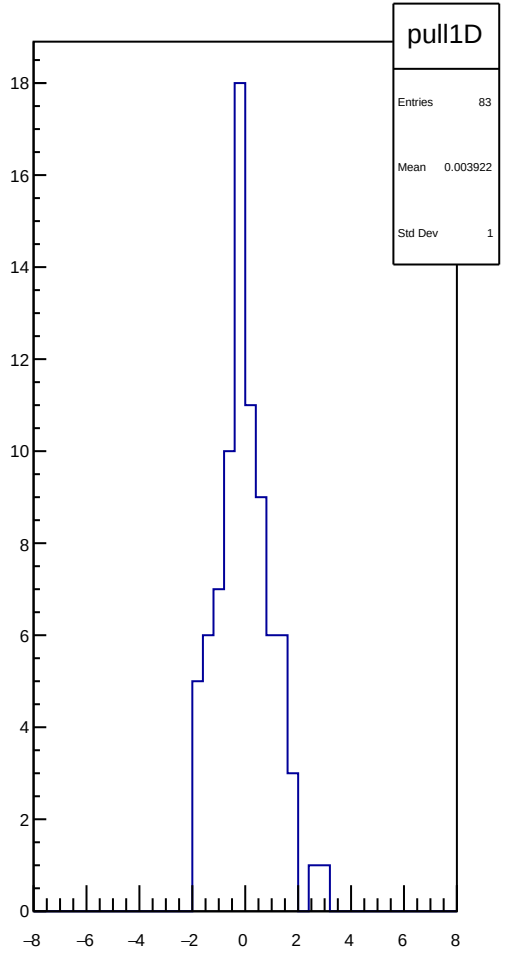

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 82
p0 1.164e+04 ± 9.216
15000
14000
13000
12000
11000
10000
9000
8000

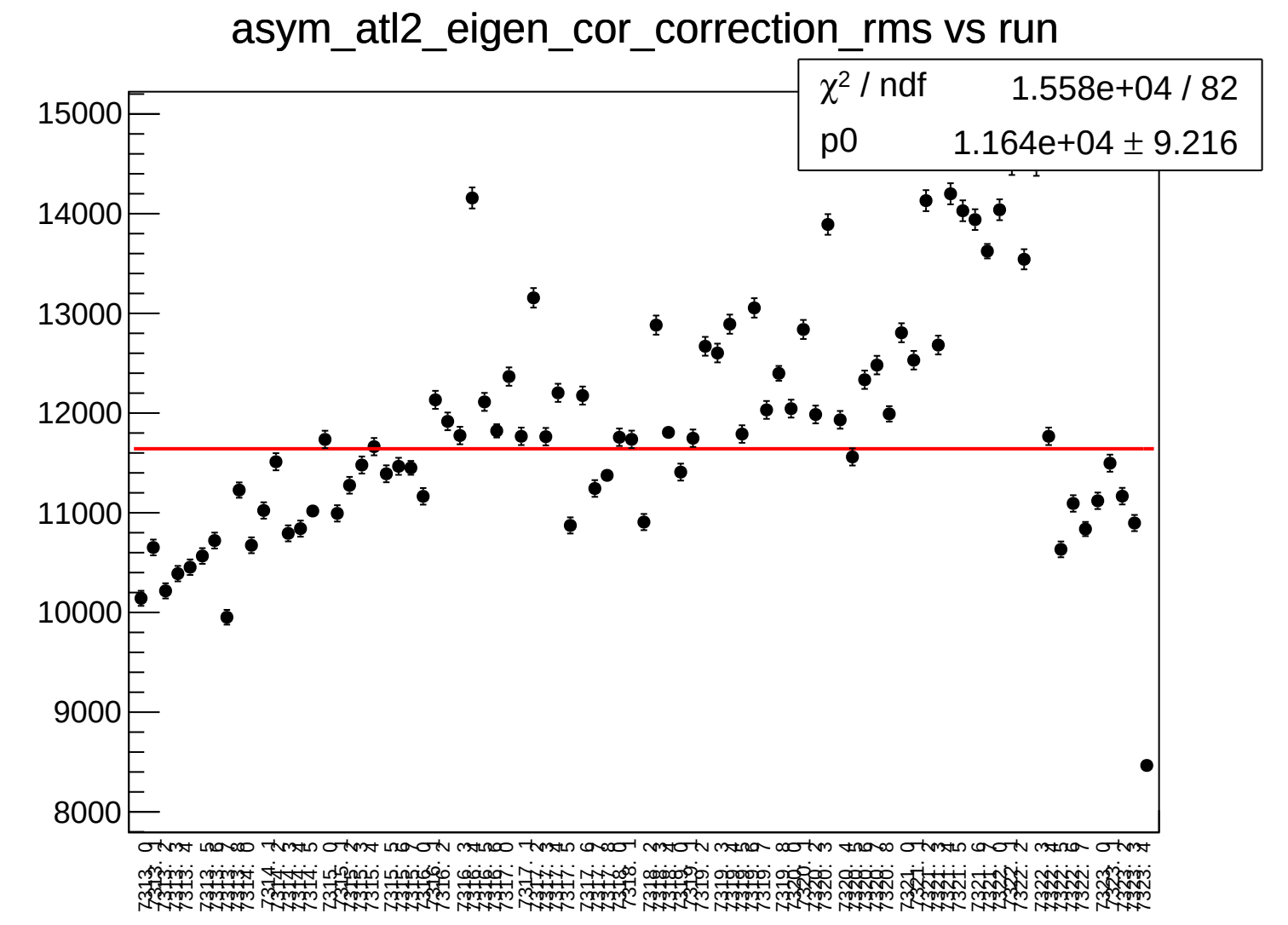

eigen_cor_asym_atl2_mean vs run
χ² / ndf 95.33 / 82
p0 1640 ± 2195
pull
Entries 83
Mean 495.6
Std Dev 0

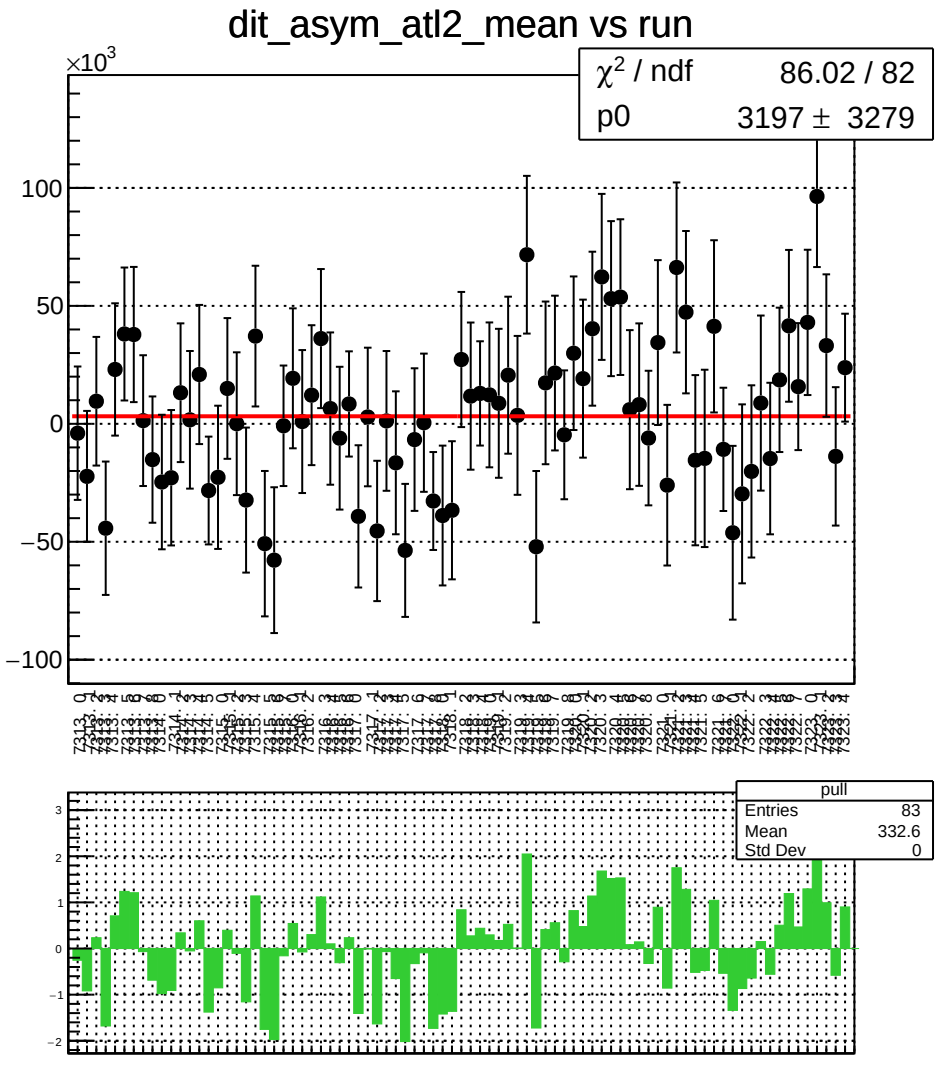

pull1D
Entries 83
Mean 0.01097
Std Dev 1.072

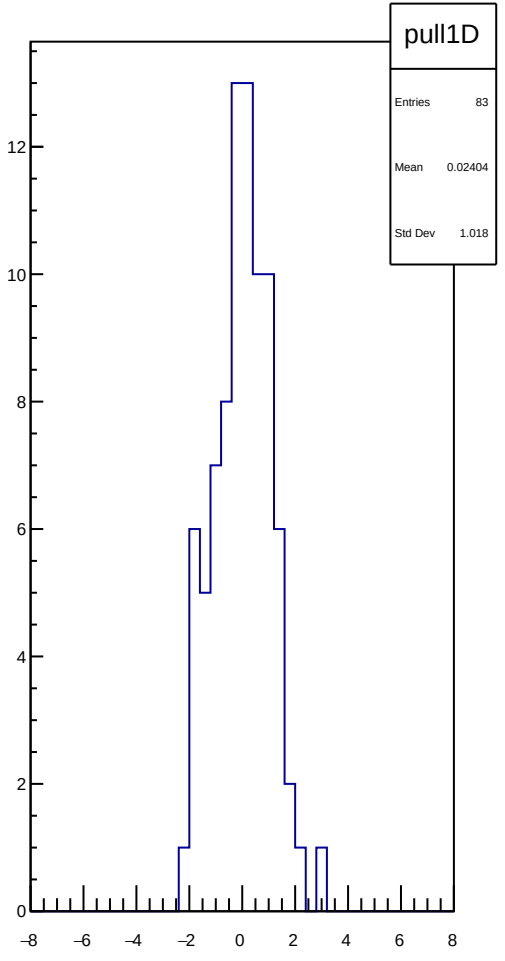

eigen_cor_asym_atl2_rms vs run
χ² / ndf 918.1 / 82
p0 1970 ± 1.552
2150
2100
2050
2000
1950
1900
1850

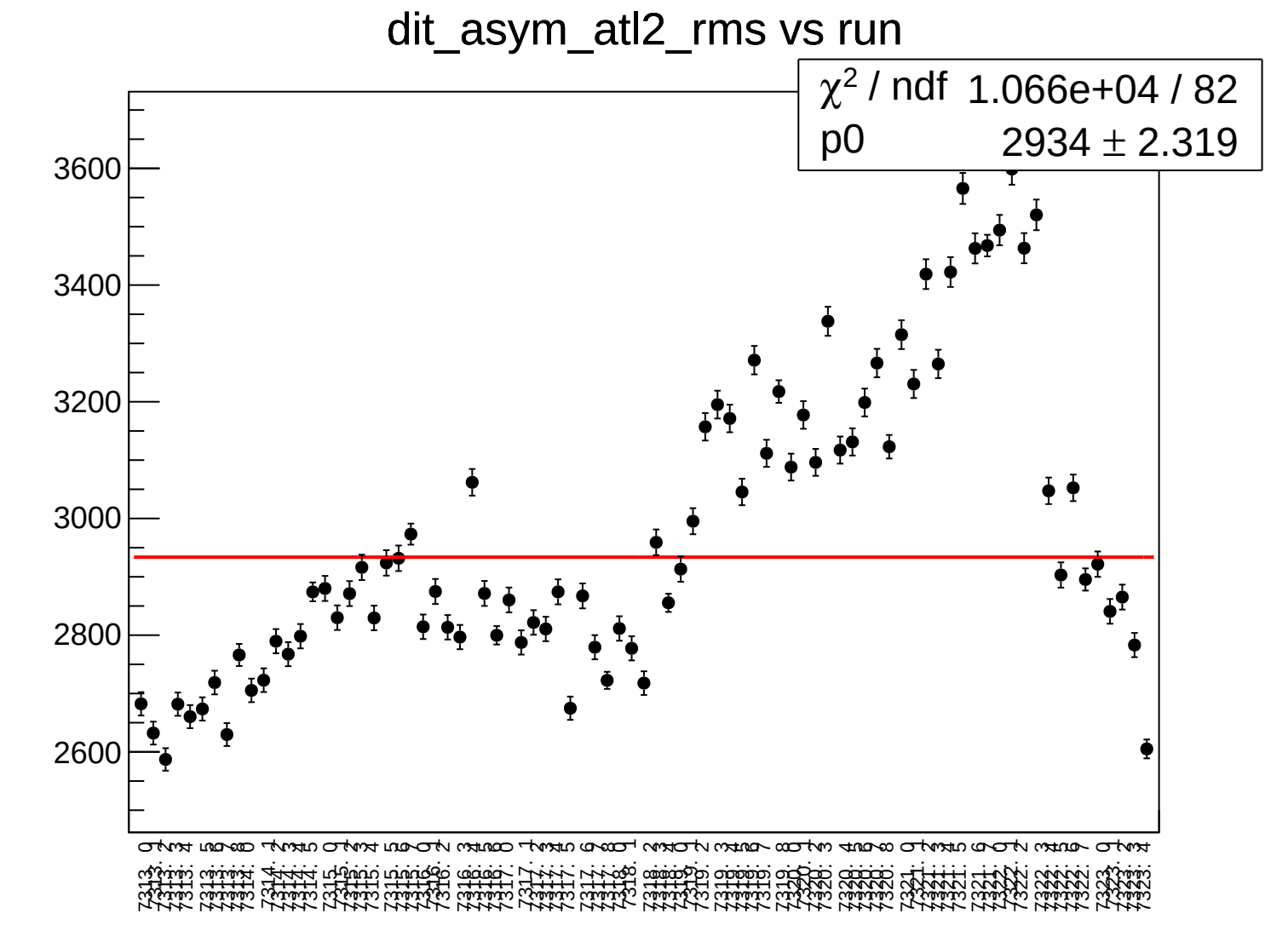

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.02 / 82
p0 1.509e+04 ± 1.303e+04
pull
Entries 83
Mean 1227
Std Dev 0

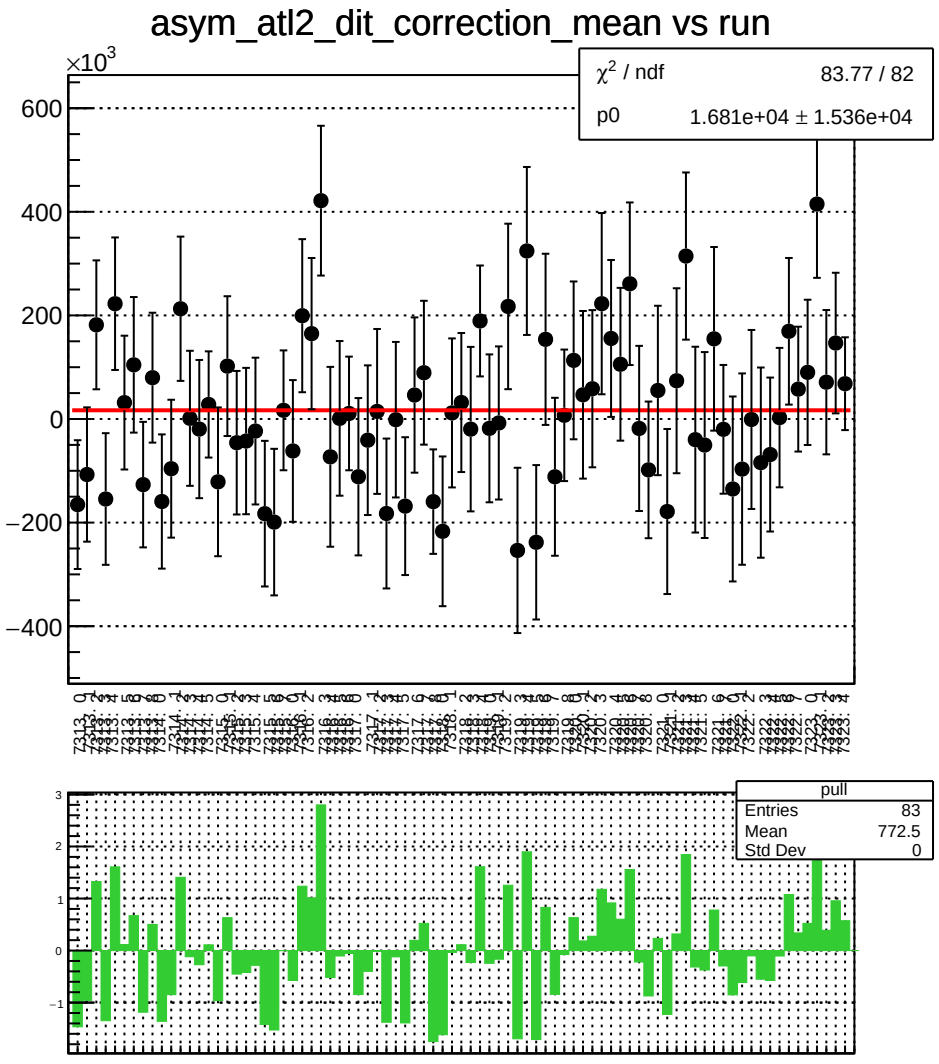

pull1D
Entries 83
Mean 0.003922
Std Dev 1

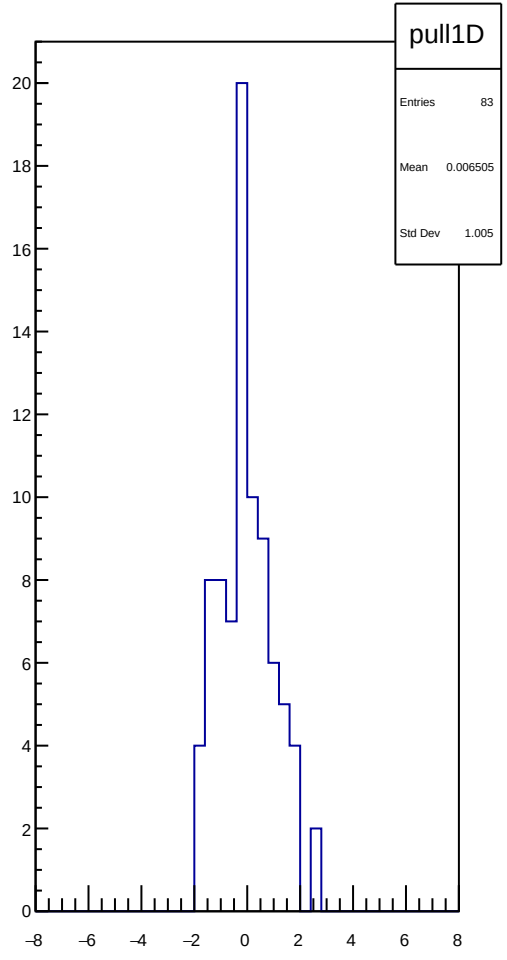

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 82
p0 1.164e+04 ± 9.216
15000
14000
13000
12000
11000
10000
9000
8000

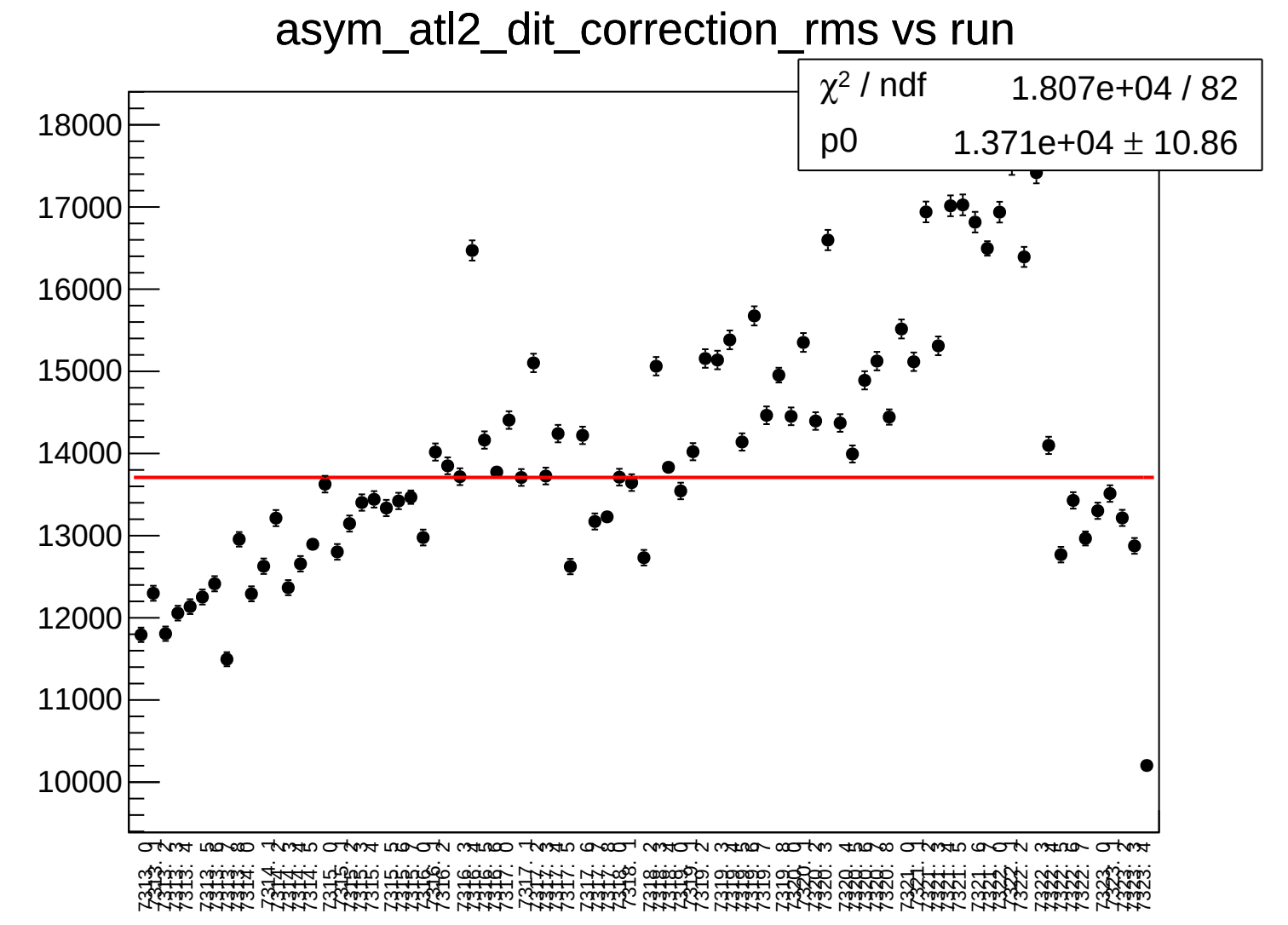

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.02 / 82
p0 3197 ± 3279
100
50
0
−50
−100
pull
Entries 83
Mean 332.6
Std Dev 0
3
2
1
0
−1
−2

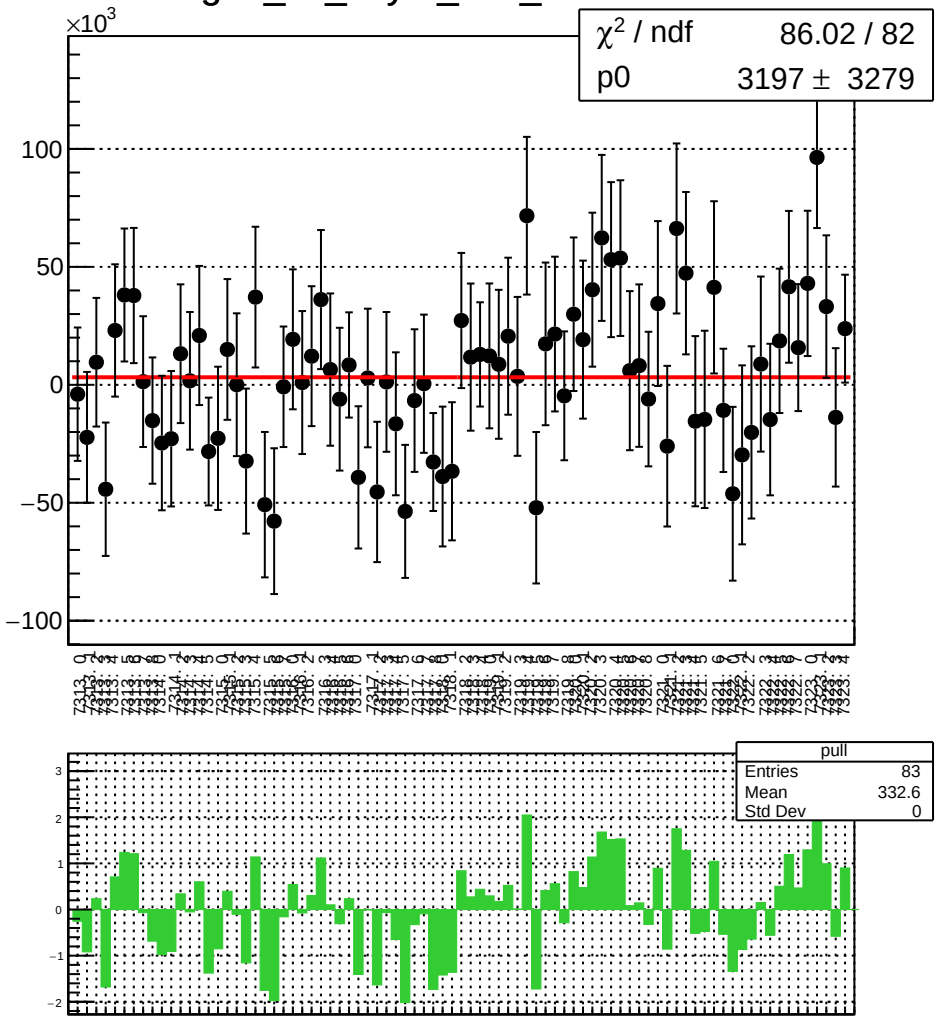

pull1D
Entries 83
Mean 0.02404
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

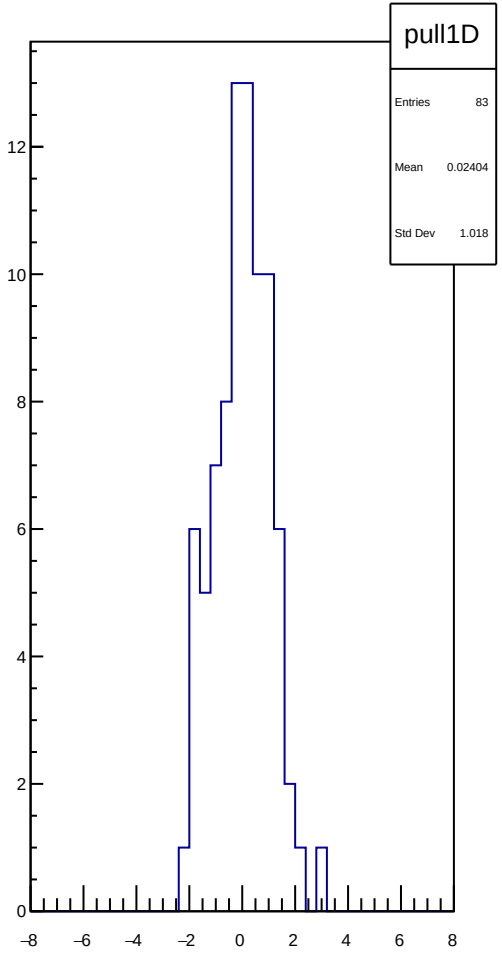

dit_asym_atl2_rms vs run
χ² / ndf 1.066e+04 / 82
p0 2934 ± 2.319
3600
3400
3200
3000
2800
2600

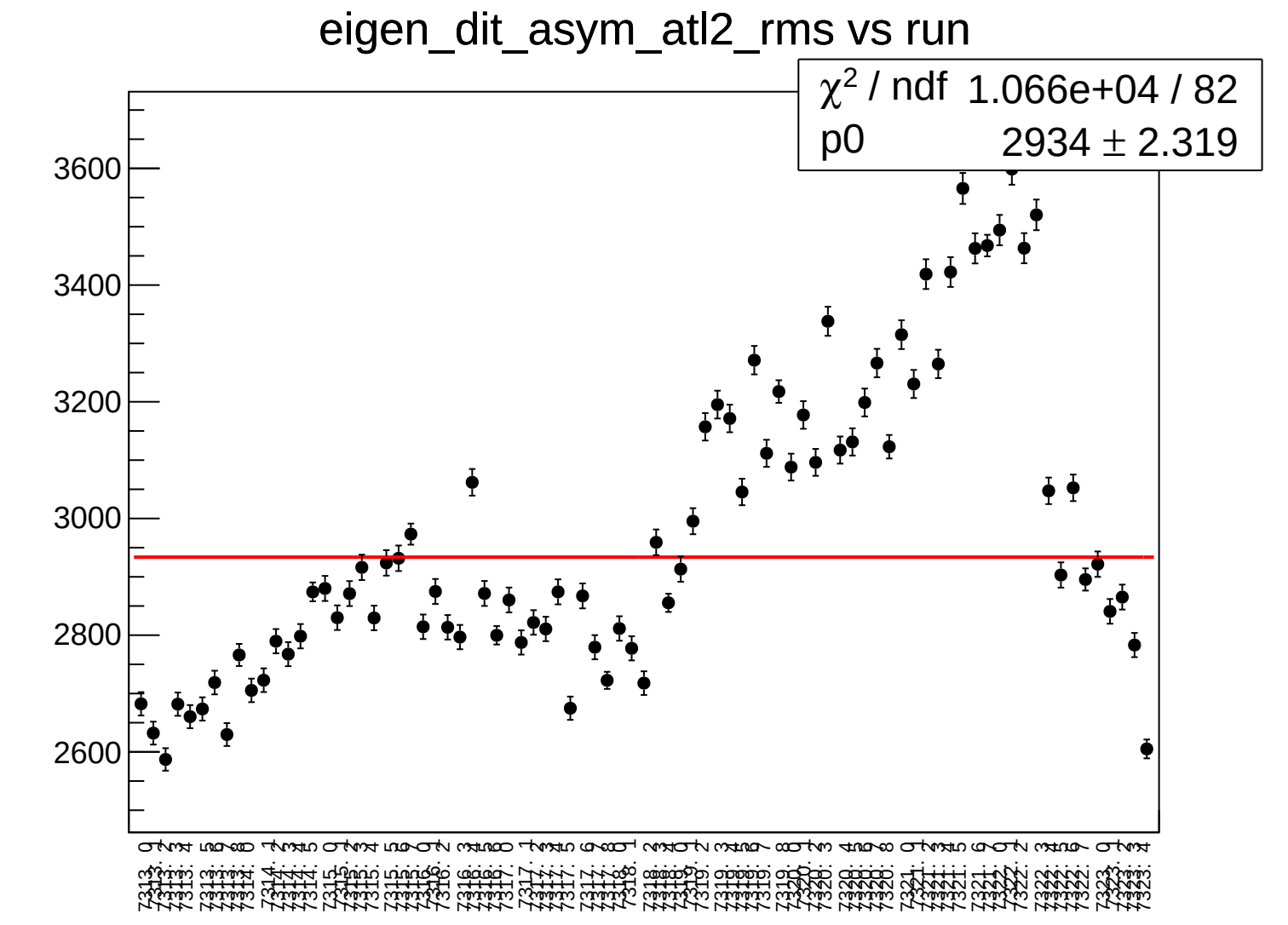

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 83.77 / 82
p0 1.681e+04 ± 1.536e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 772.5
Std Dev 0
3
2
1
0
−1

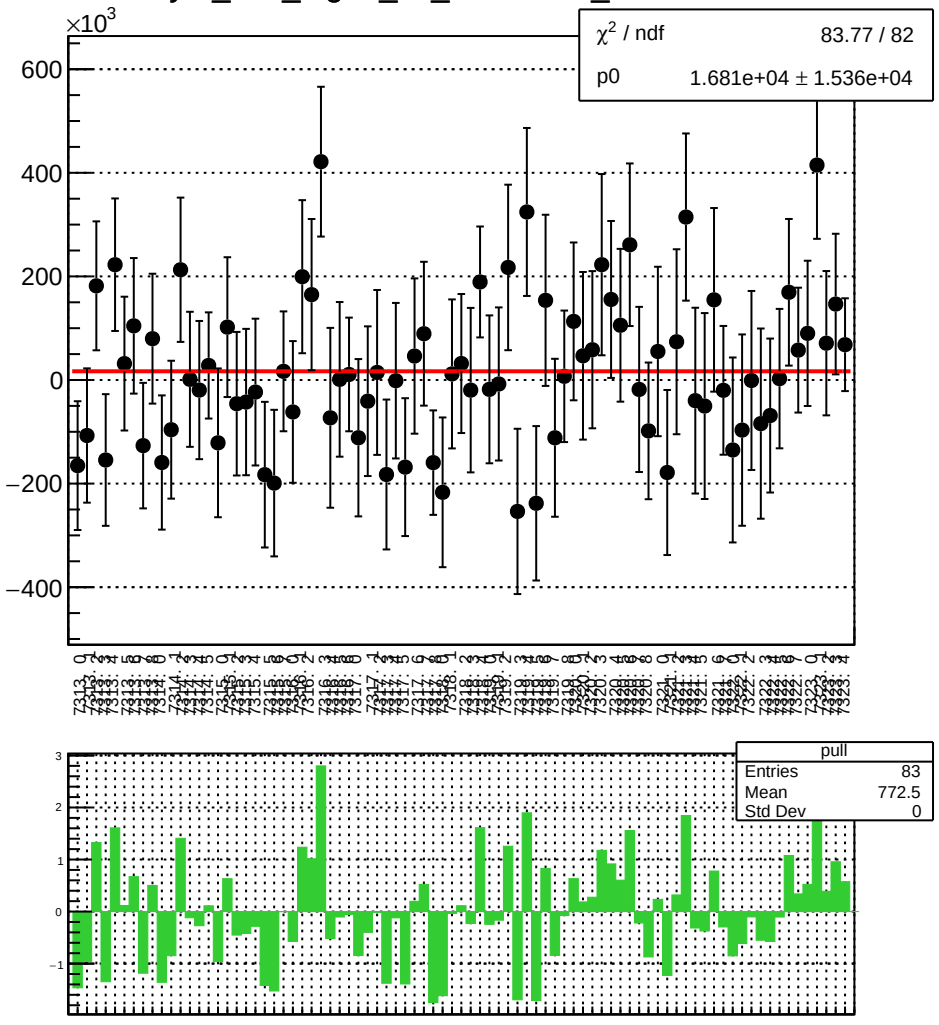

pull1D
Entries 83
Mean 0.006505
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

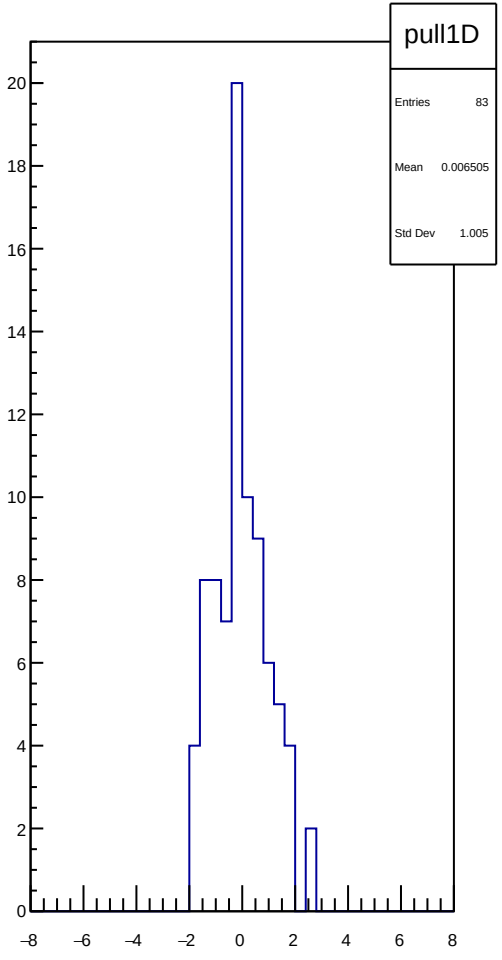

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.807e+04 / 82
p0 1.371e+04 ± 10.86
18000
17000
16000
15000
14000
13000
12000
11000
10000

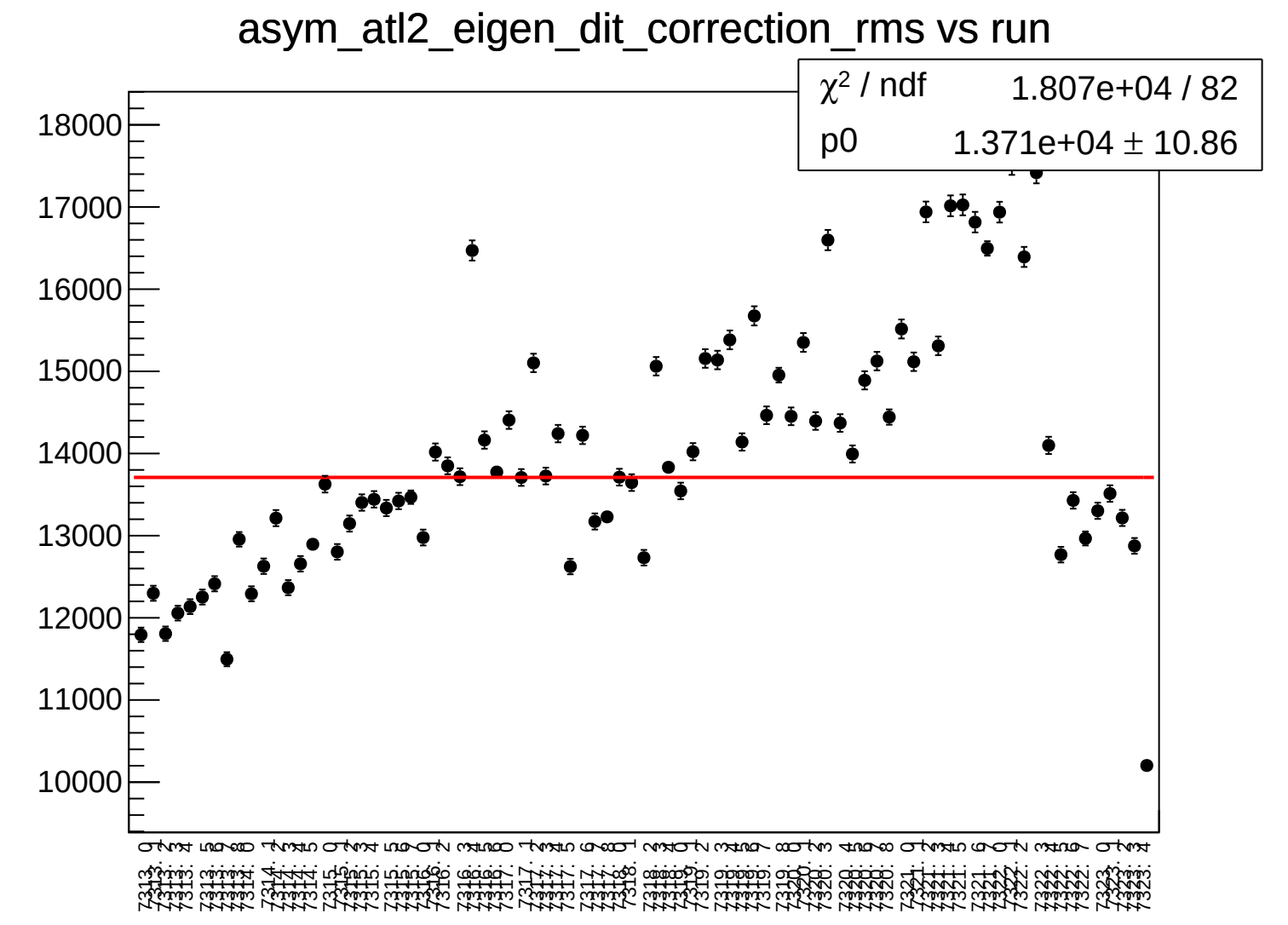

eigen_dit_asym_atl2_mean vs run
χ² / ndf 86.02 / 82
p0 3197 ± 3279
×10³
pull
Entries 83
Mean 332.6
Std Dev 0

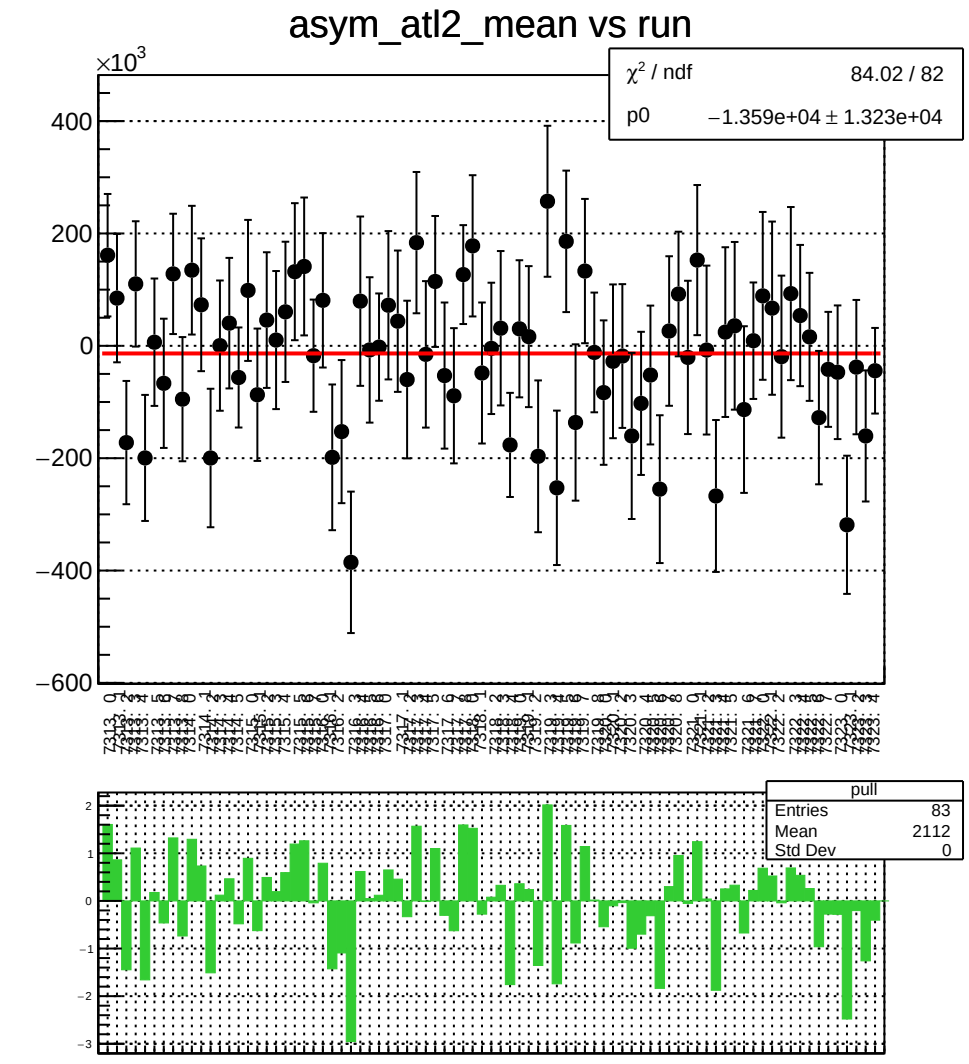

pull1D
Entries 83
Mean 0.02404
Std Dev 1.018

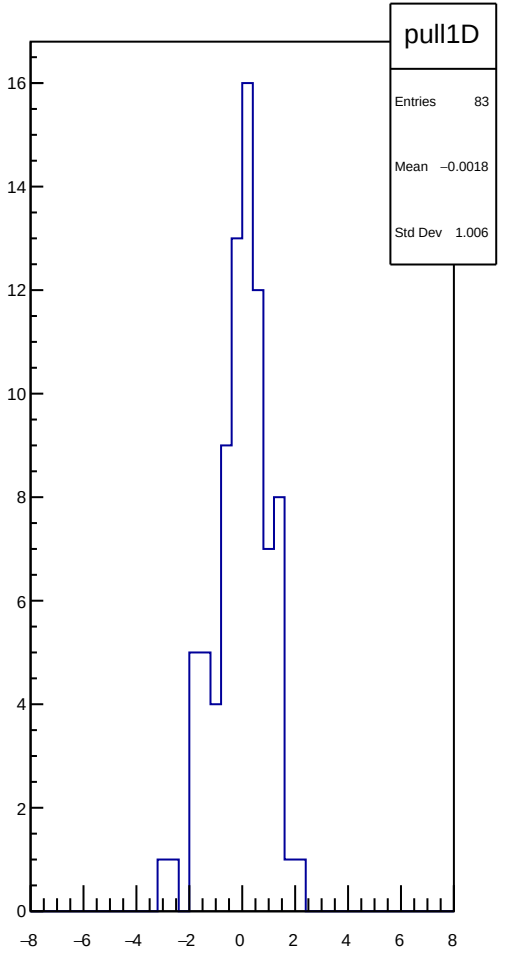

eigen_dit_asym_atl2_rms vs run
χ² / ndf 1.066e+04 / 82
p0 2934 ± 2.319
3600
3400
3200
3000
2800
2600

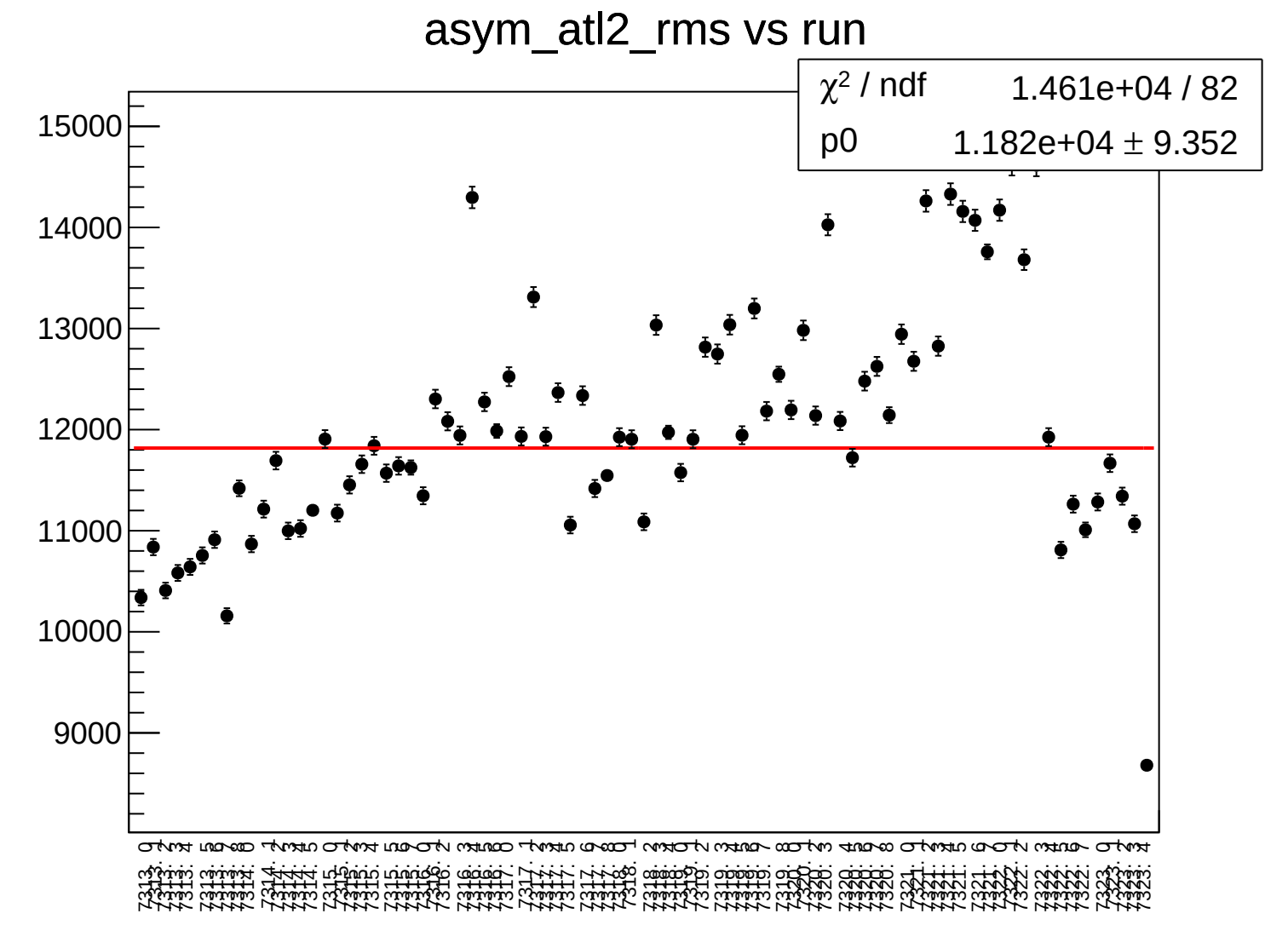

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.77 / 82
p0 1.681e+04 ± 1.536e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 772.5
Std Dev 0
3
2
1
0
−1

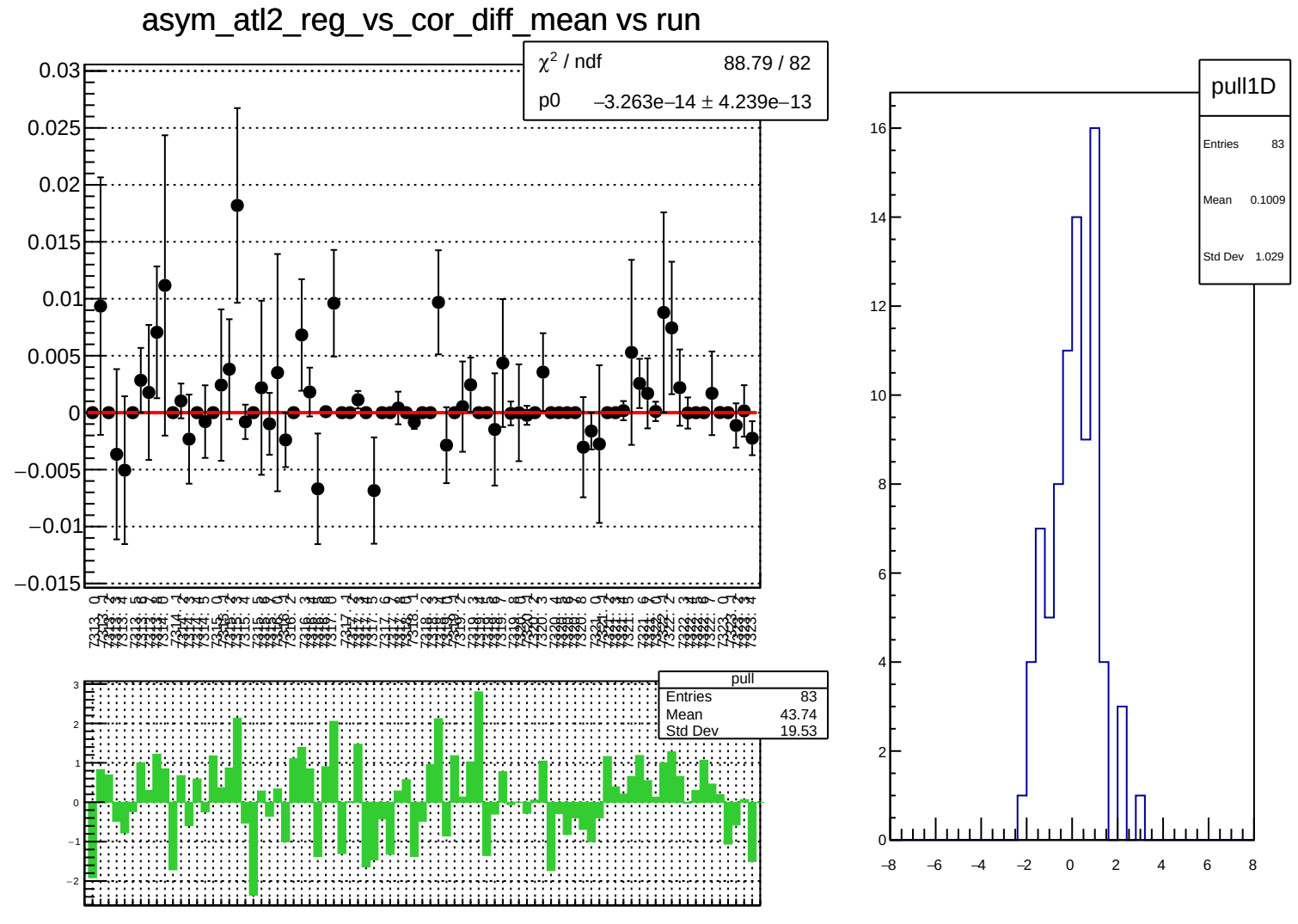

pull1D
Entries 83
Mean 0.006505
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

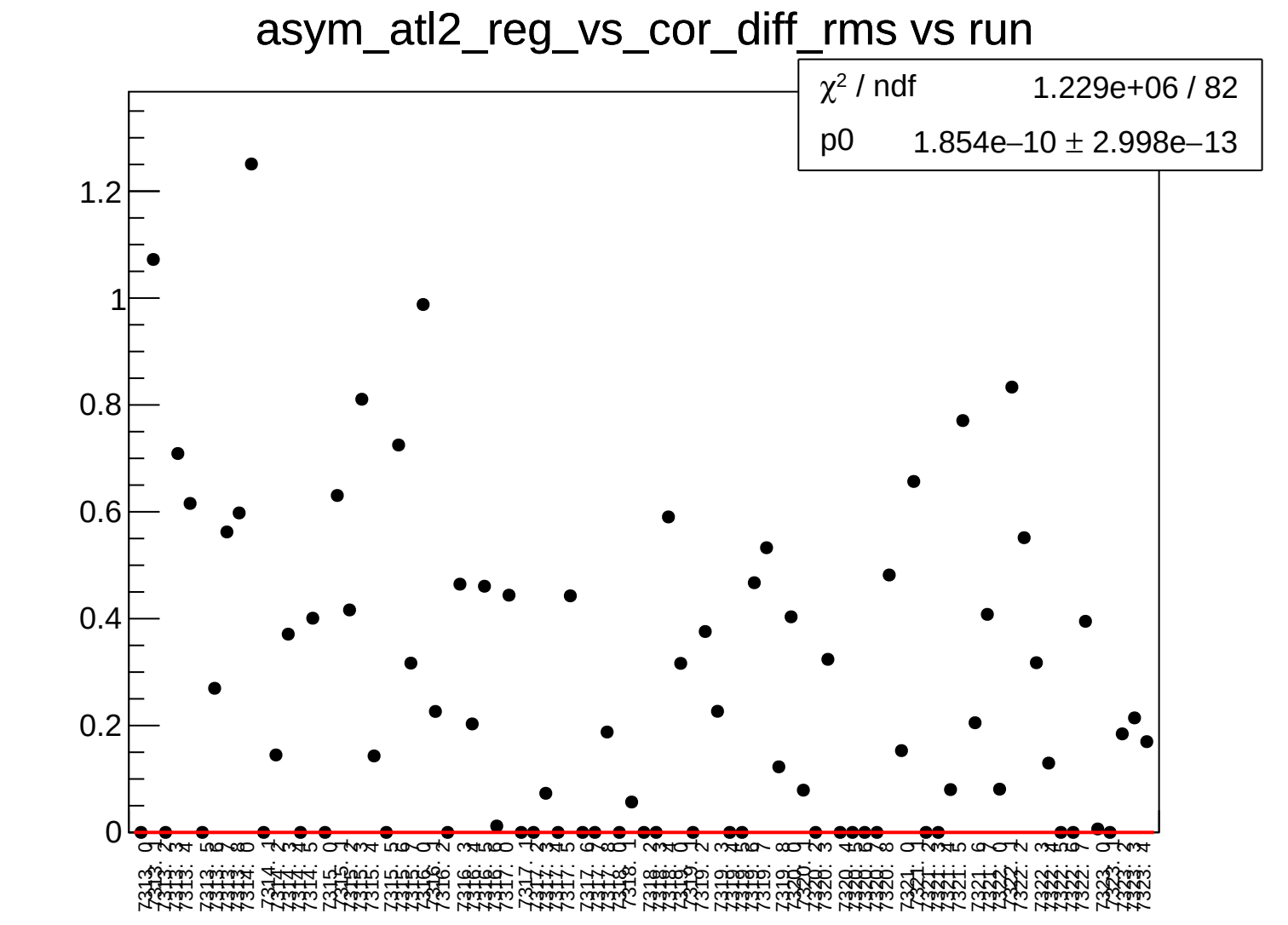

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.807e+04 / 82
p0 1.371e+04 ± 10.86
18000
17000
16000
15000
14000
13000
12000
11000
10000

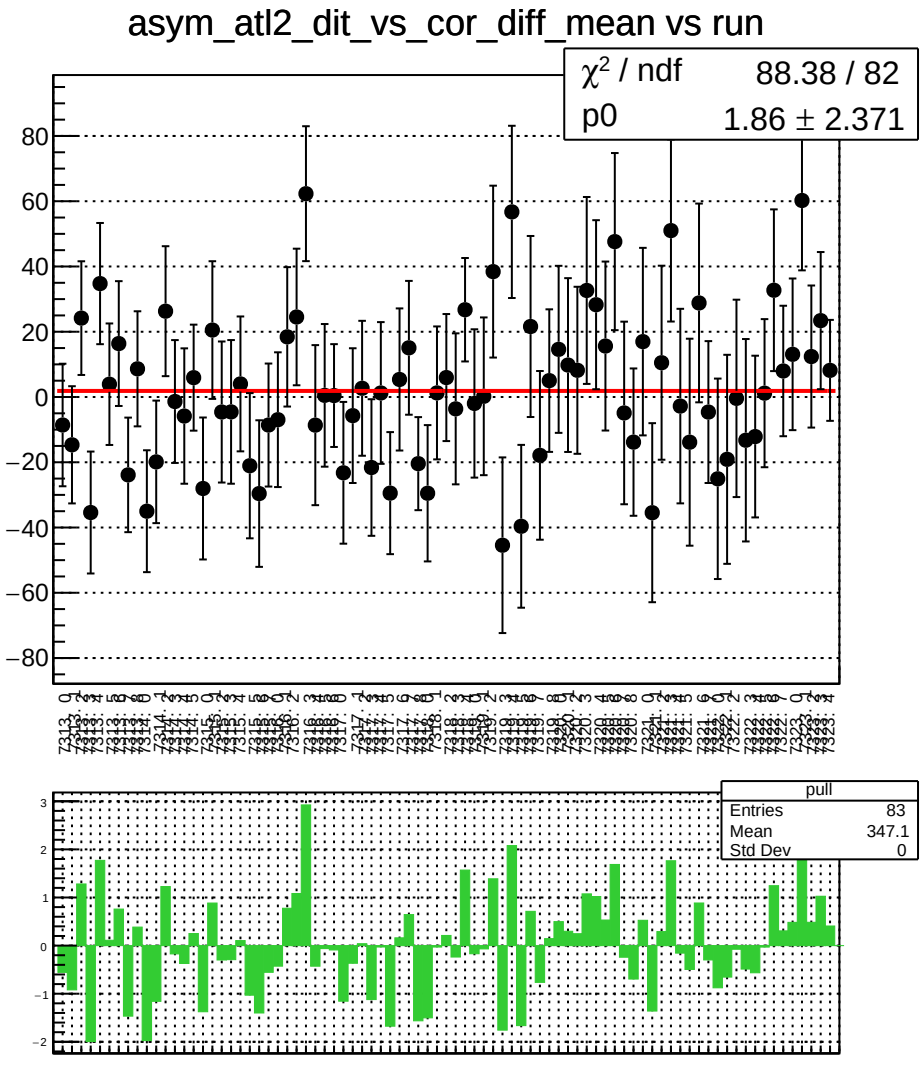

asym_atl2_mean vs run
×10^3
χ² / ndf 84.02 / 82
p0 −1.359e+04 ± 1.323e+04
pull
Entries 83
Mean 2112
Std Dev 0

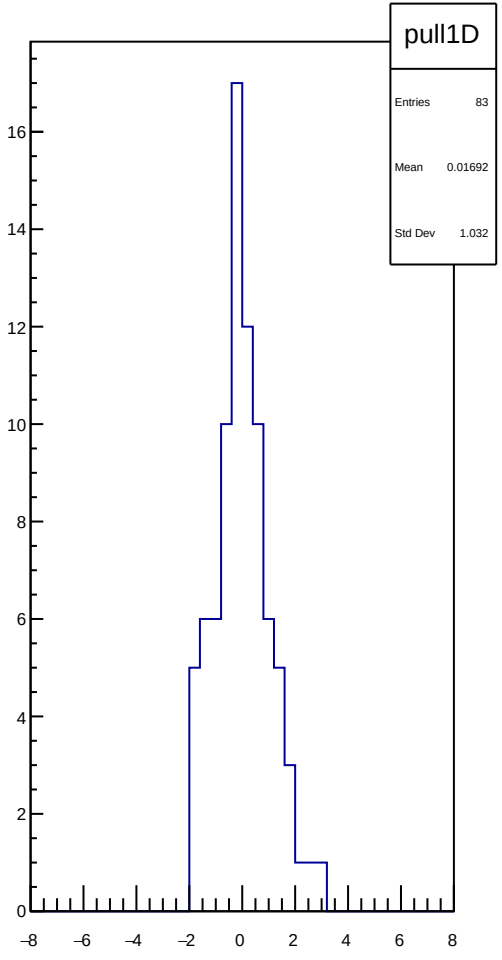

pull1D
Entries 83
Mean −0.0018
Std Dev 1.006

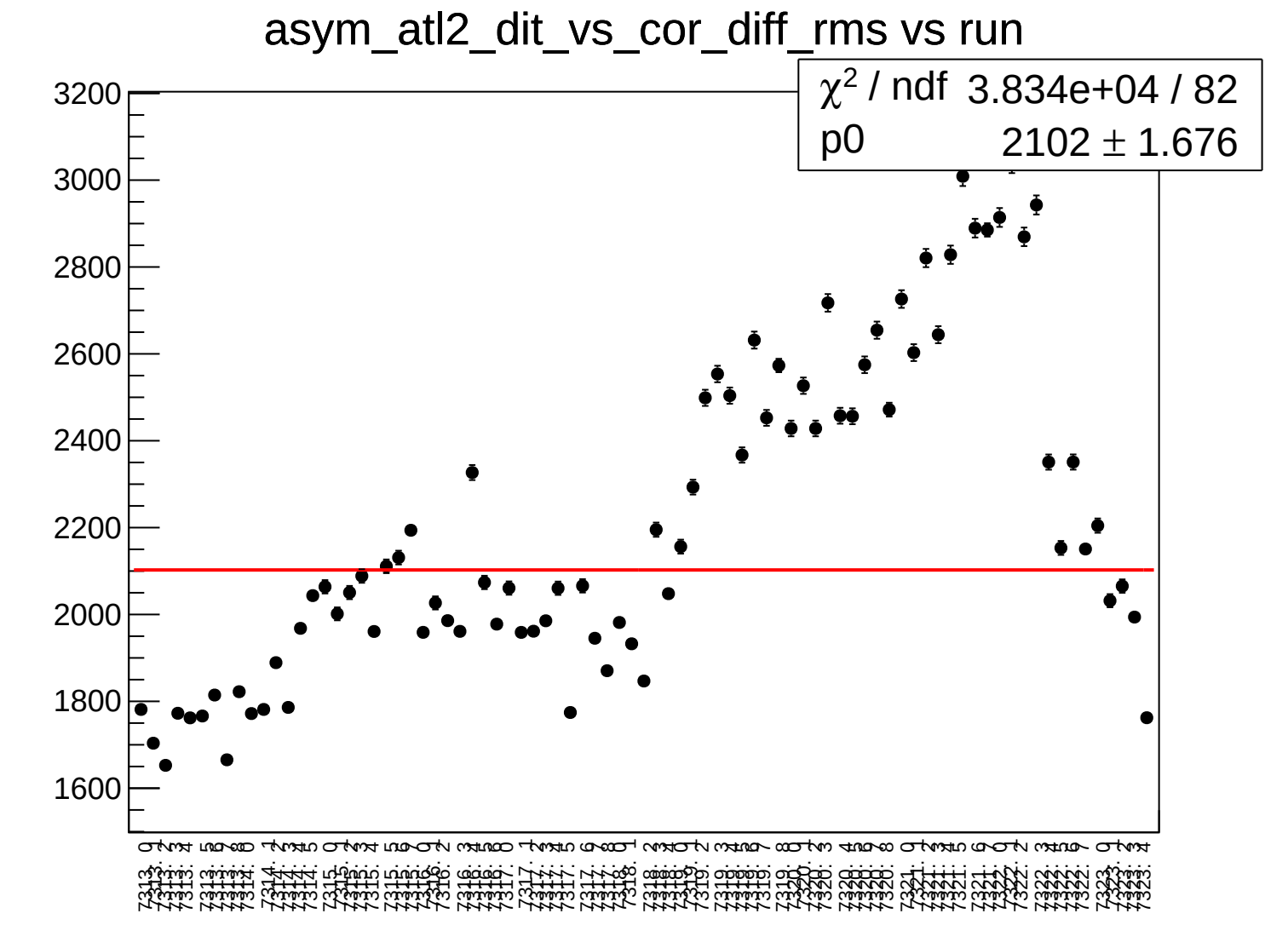

asym_atl2_rms vs run
χ² / ndf 1.461e+04 / 82
p0 1.182e+04 ± 9.352
15000
14000
13000
12000
11000
10000
9000

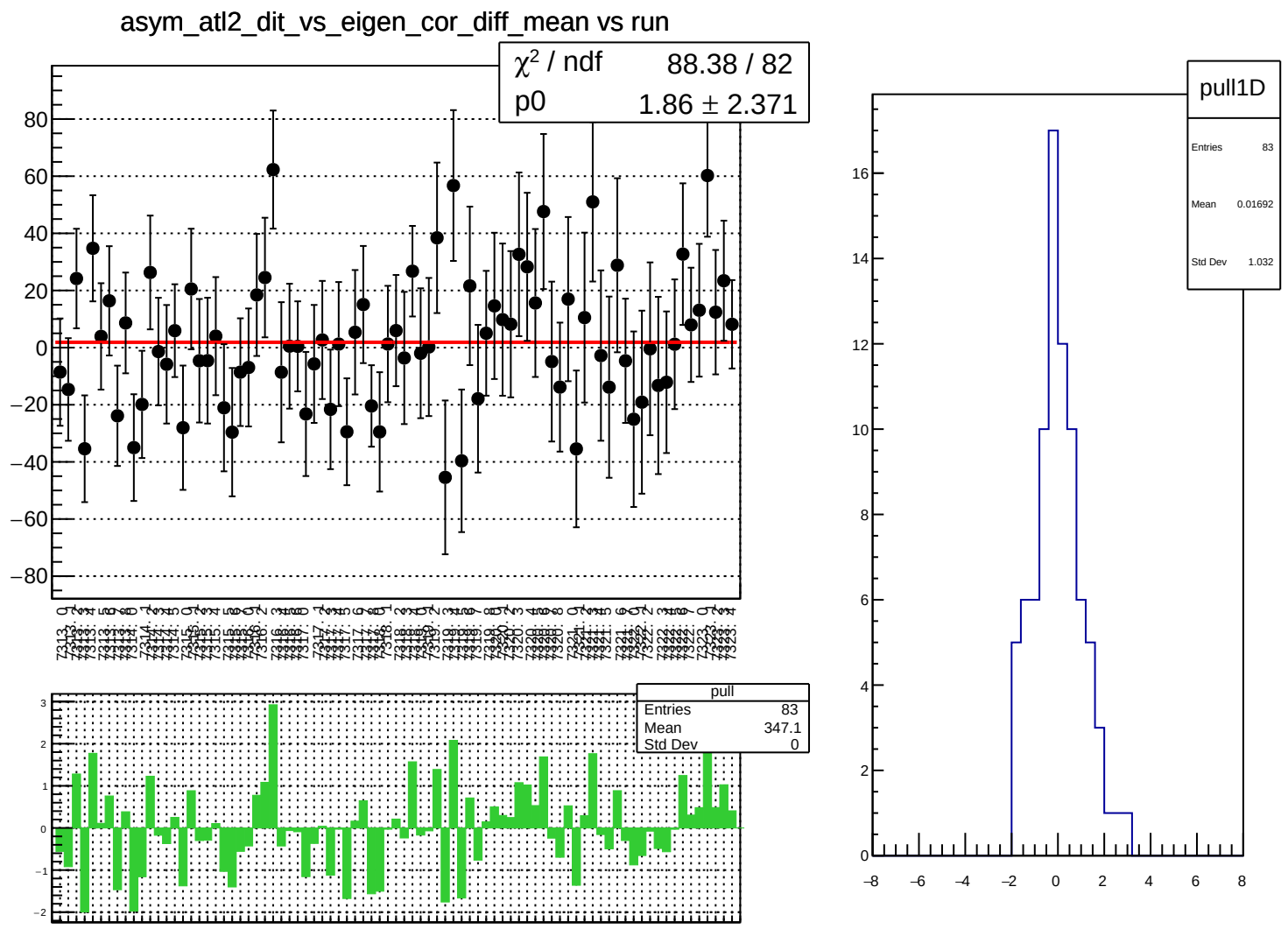

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 88.79 / 82
p0 −3.263e−14 ± 4.239e−13
pull
Entries 83
Mean 43.74
Std Dev 19.53
pull1D
Entries 83
Mean 0.1009
Std Dev 1.029

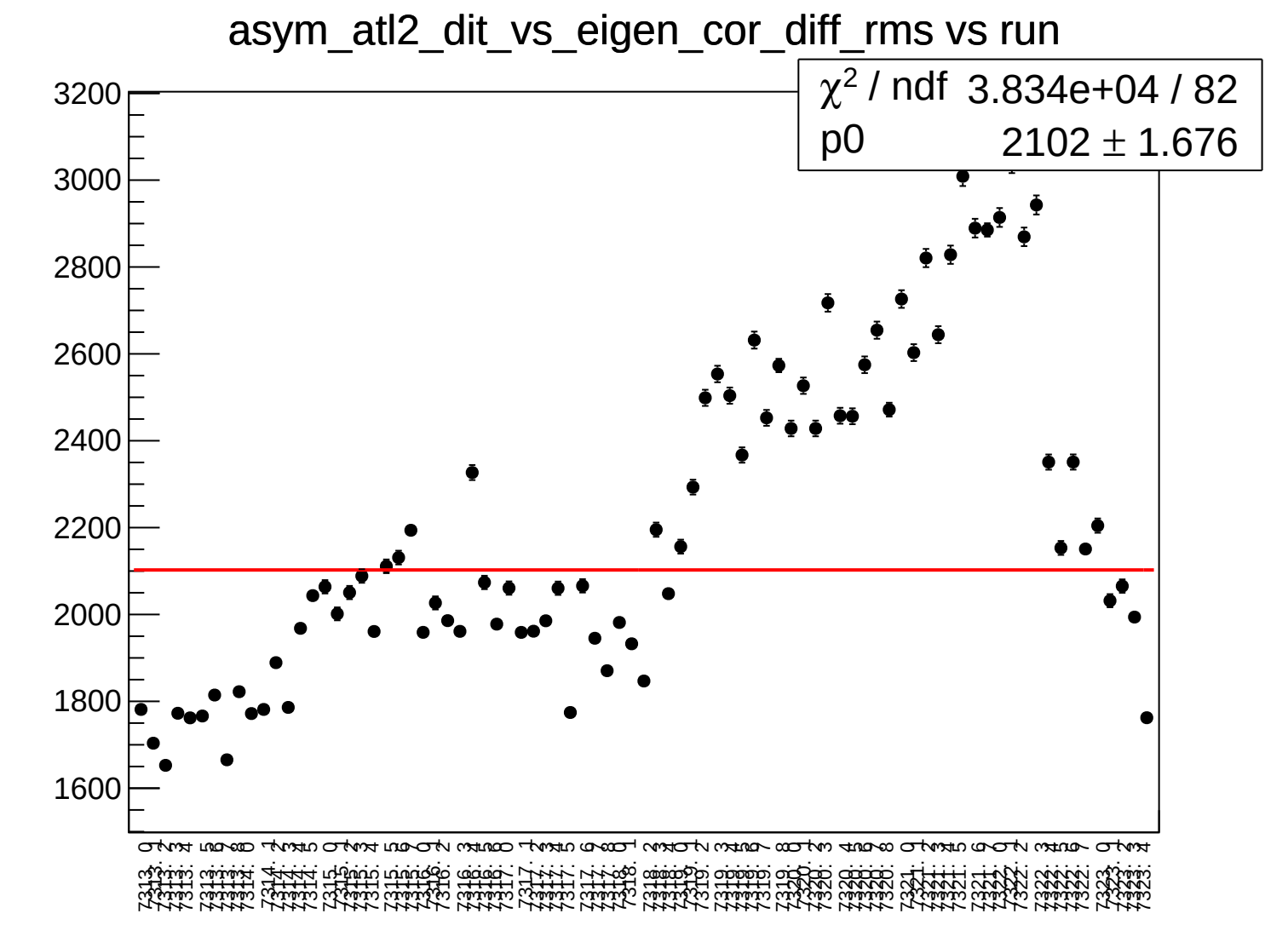

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.229e+06 / 82
p0 1.854e−10 ± 2.998e−13
1.2
1
0.8
0.6
0.4
0.2
0

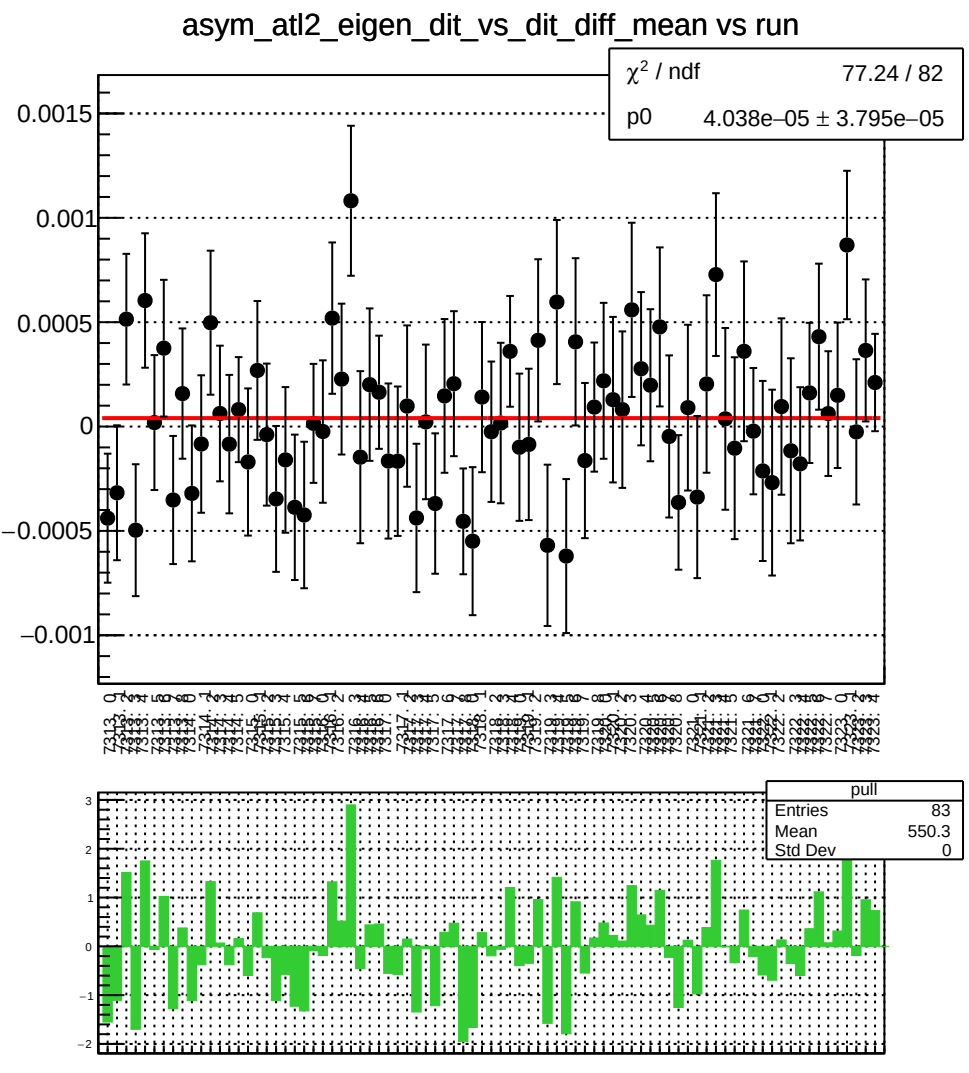

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 82
p0 1.86 ± 2.371
pull
Entries 83
Mean 347.1
Std Dev 0

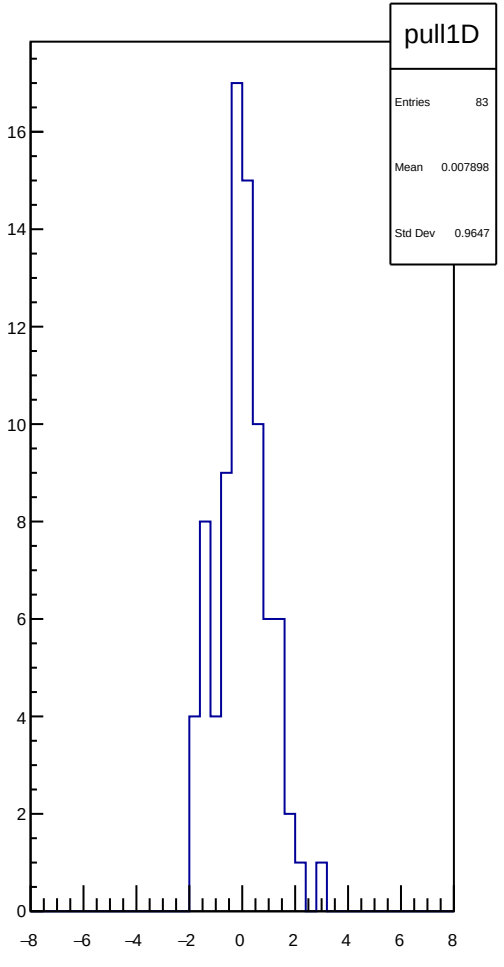

pull1D
Entries 83
Mean 0.01692
Std Dev 1.032

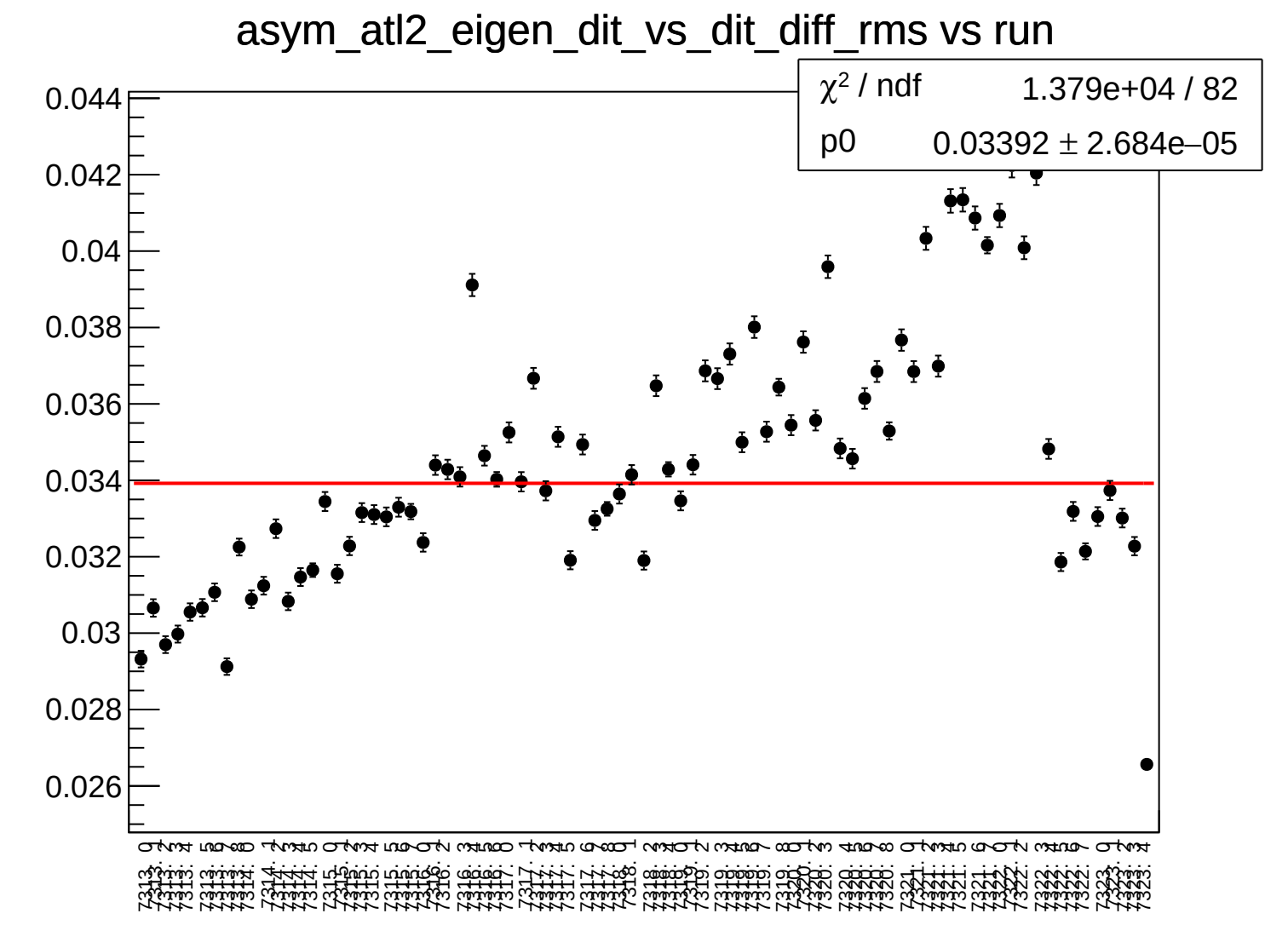

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.834e+04 / 82
p0 2102 ± 1.676
3200
3000
2800
2600
2400
2200
2000
1800
1600

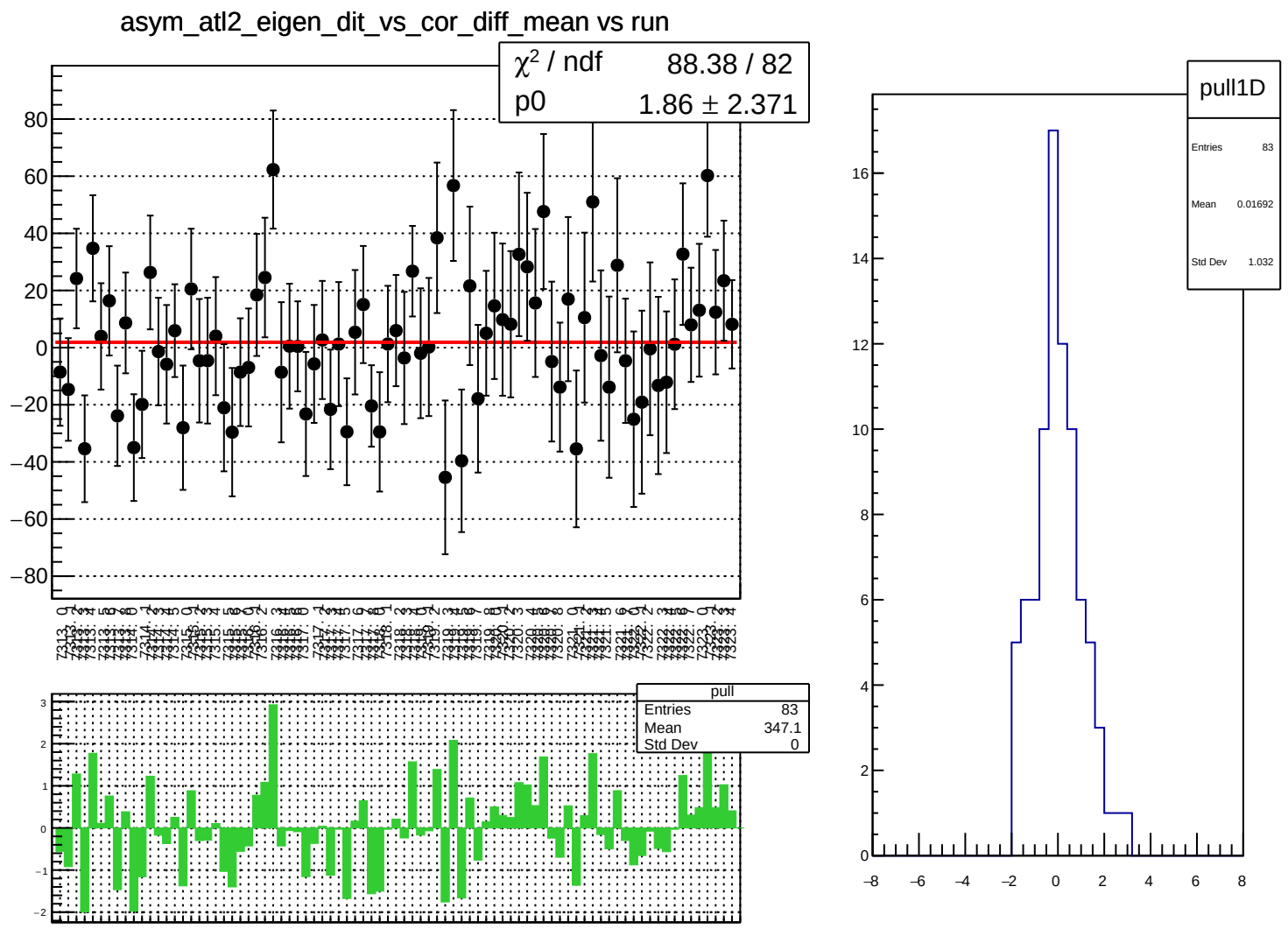

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 82
p0 1.86 ± 2.371
pull
Entries 83
Mean 347.1
Std Dev 0
pull1D
Entries 83
Mean 0.01692
Std Dev 1.032

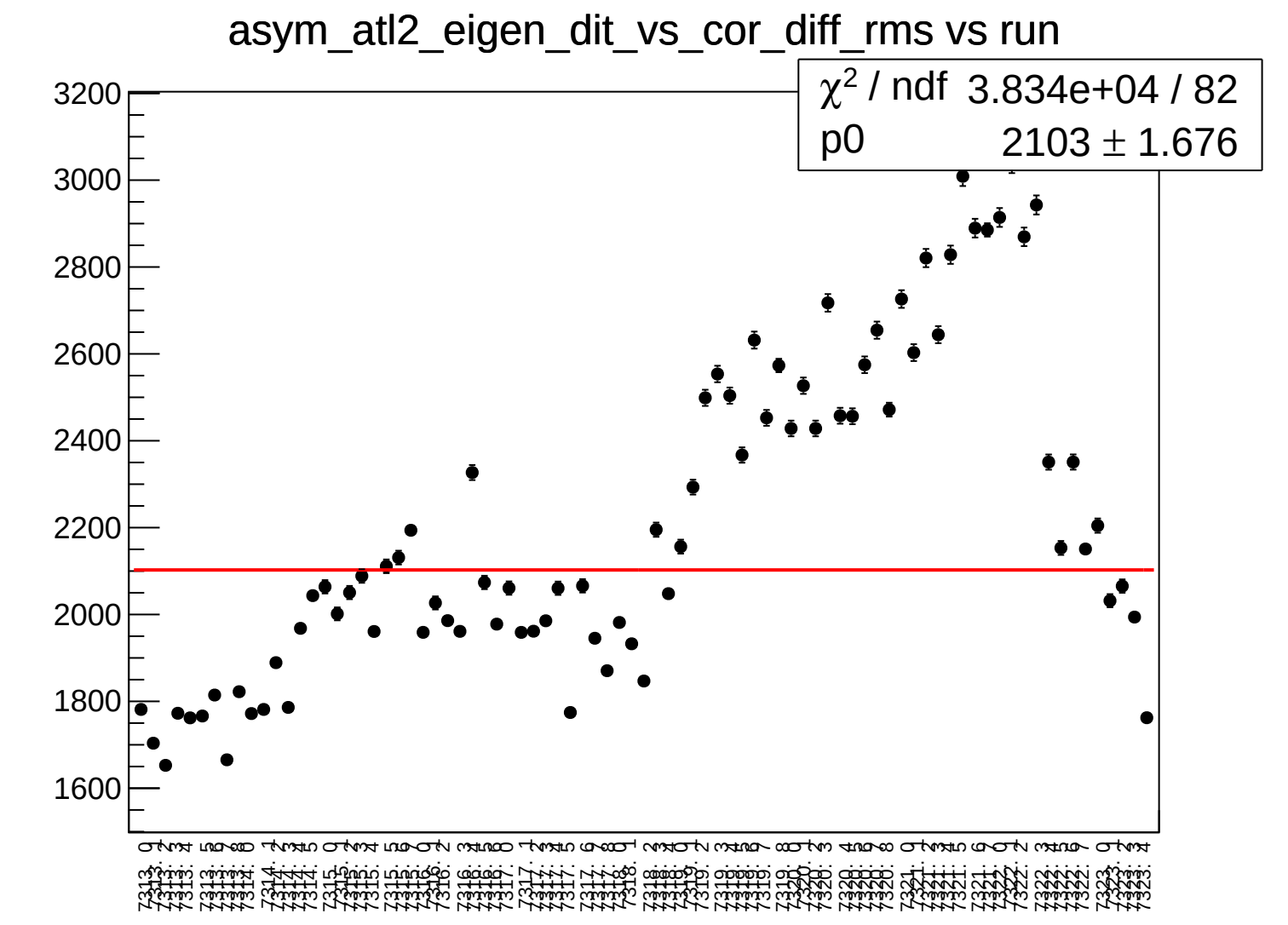

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.834e+04 / 82
p0 2102 ± 1.676
3200
3000
2800
2600
2400
2200
2000
1800
1600

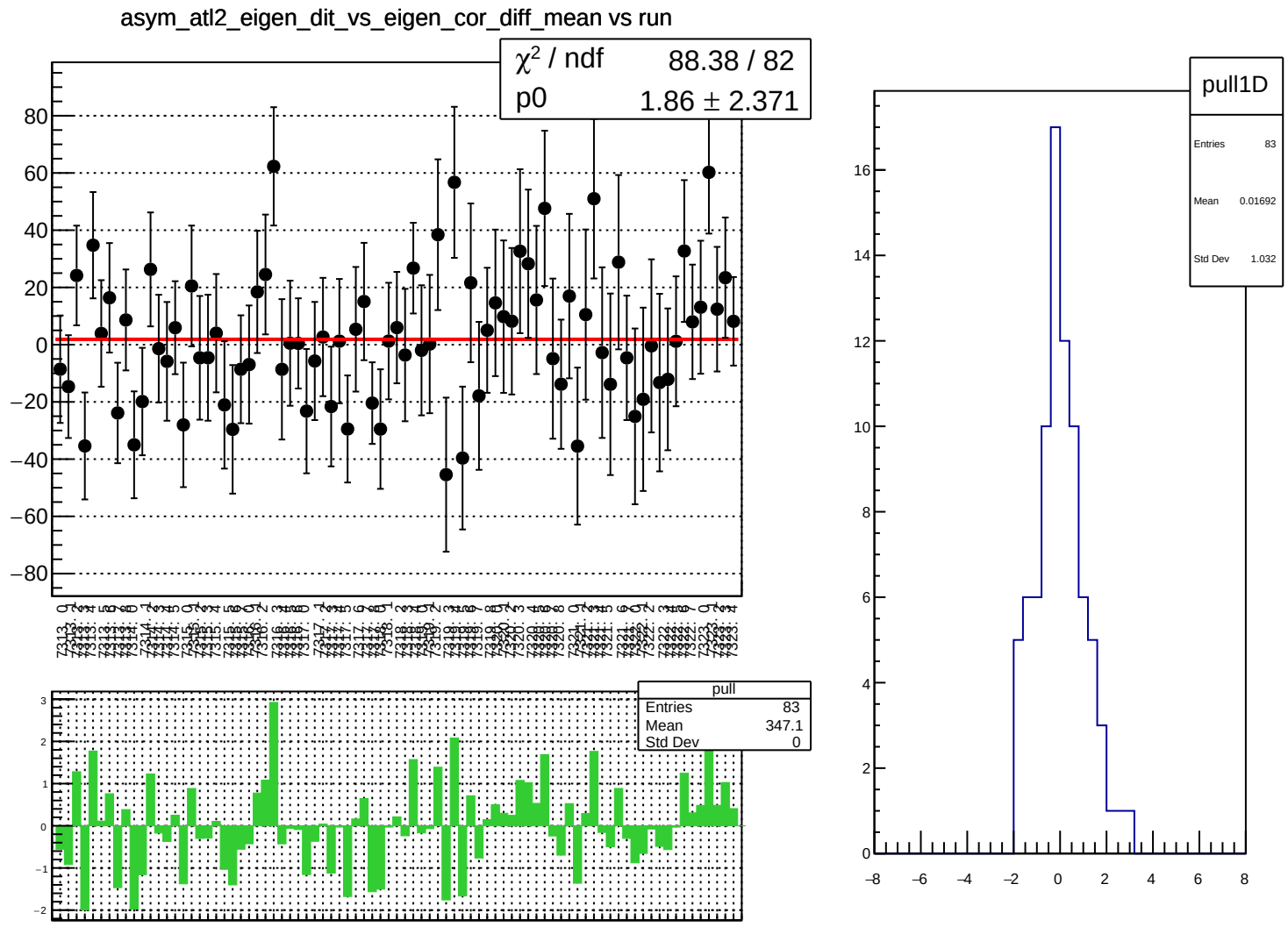

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.24 / 82
p0 4.038e−05 ± 3.795e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 550.3
Std Dev 0
3
2
1
0
−1
−2

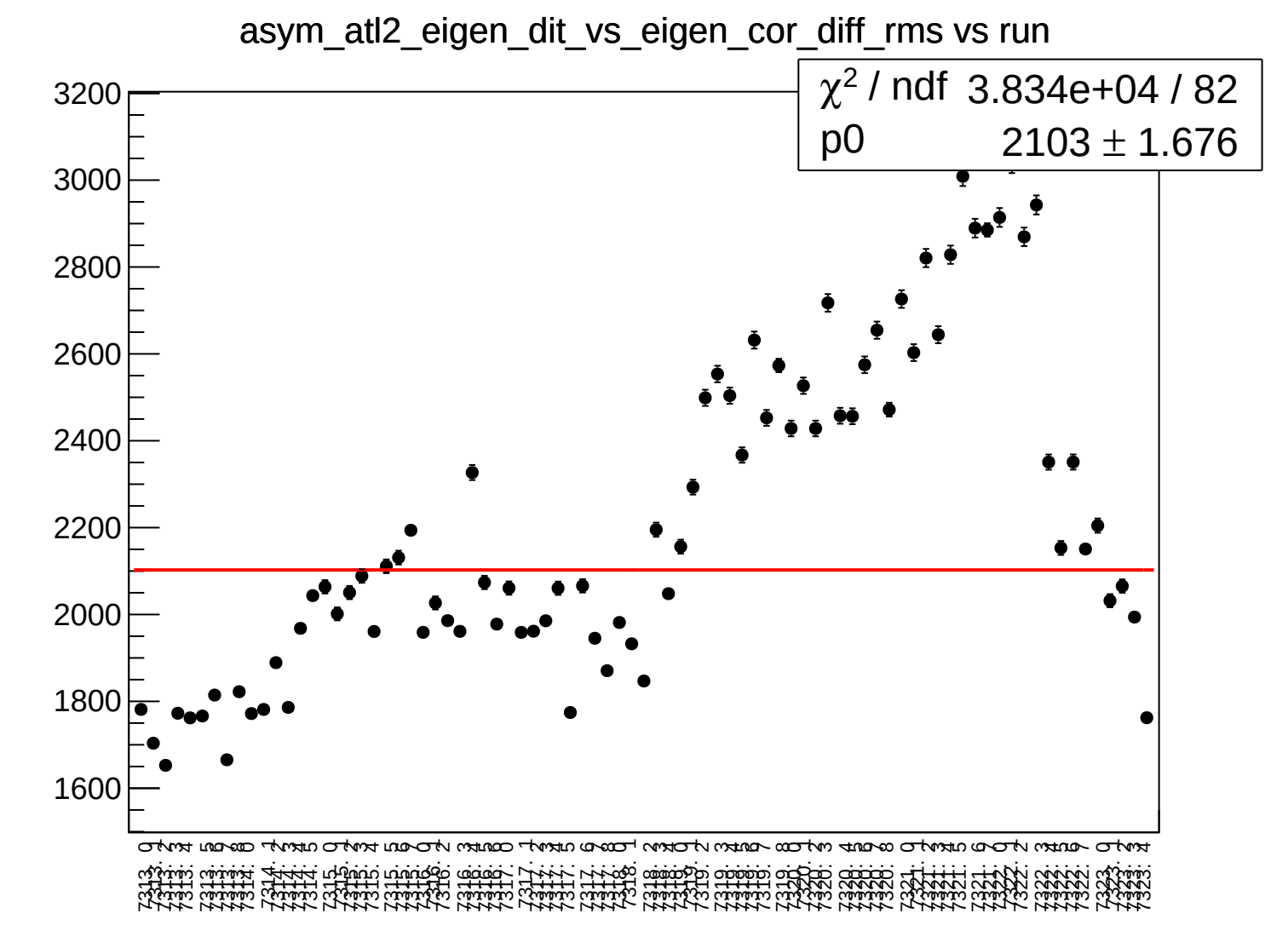

pull1D
Entries 83
Mean 0.007898
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

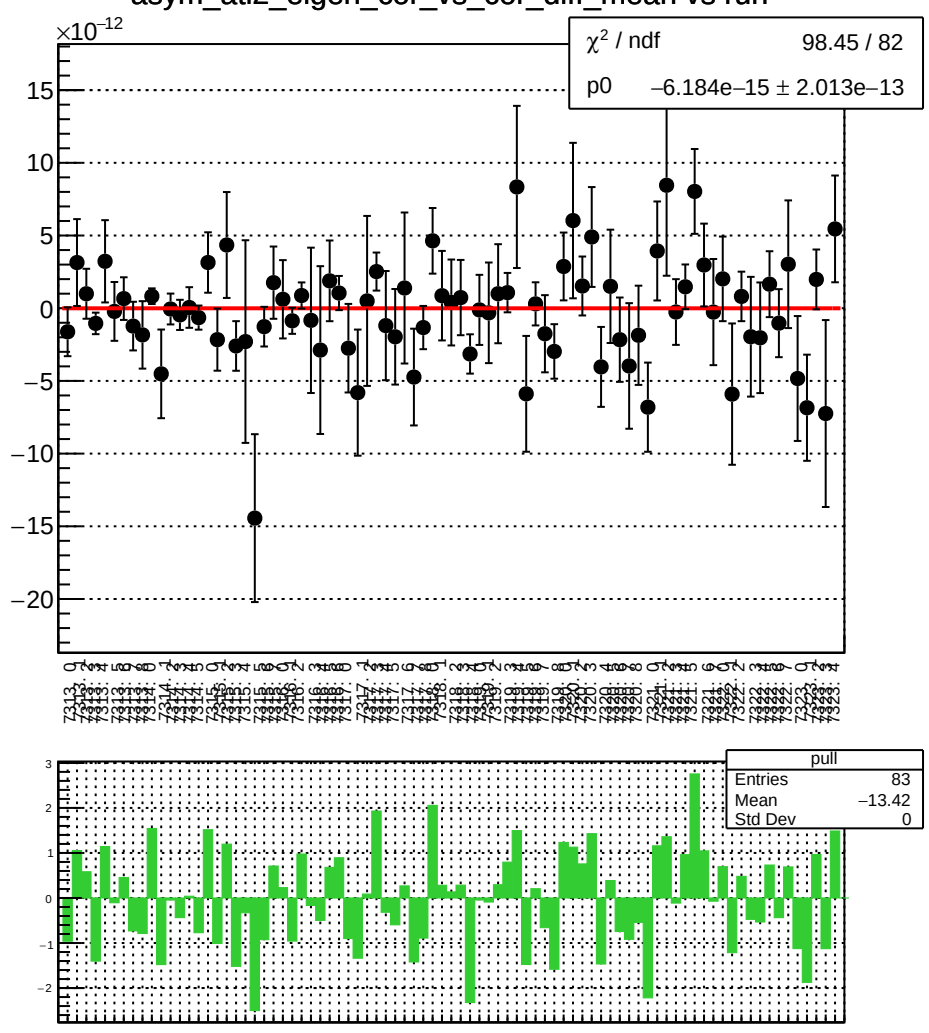

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.379e+04 / 82
p0 0.03392 ± 2.684e−05
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026

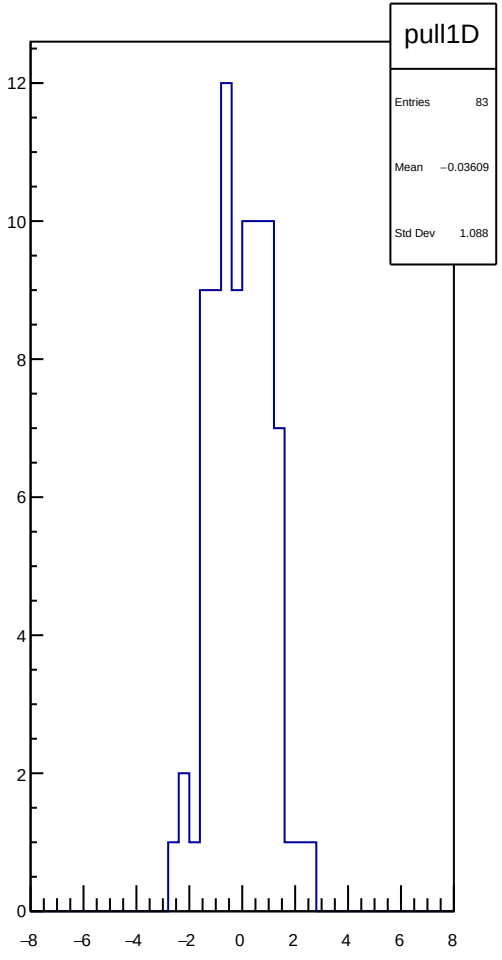

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 82
p0 1.86 ± 2.371
pull
Entries 83
Mean 347.1
Std Dev 0
pull1D
Entries 83
Mean 0.01692
Std Dev 1.032

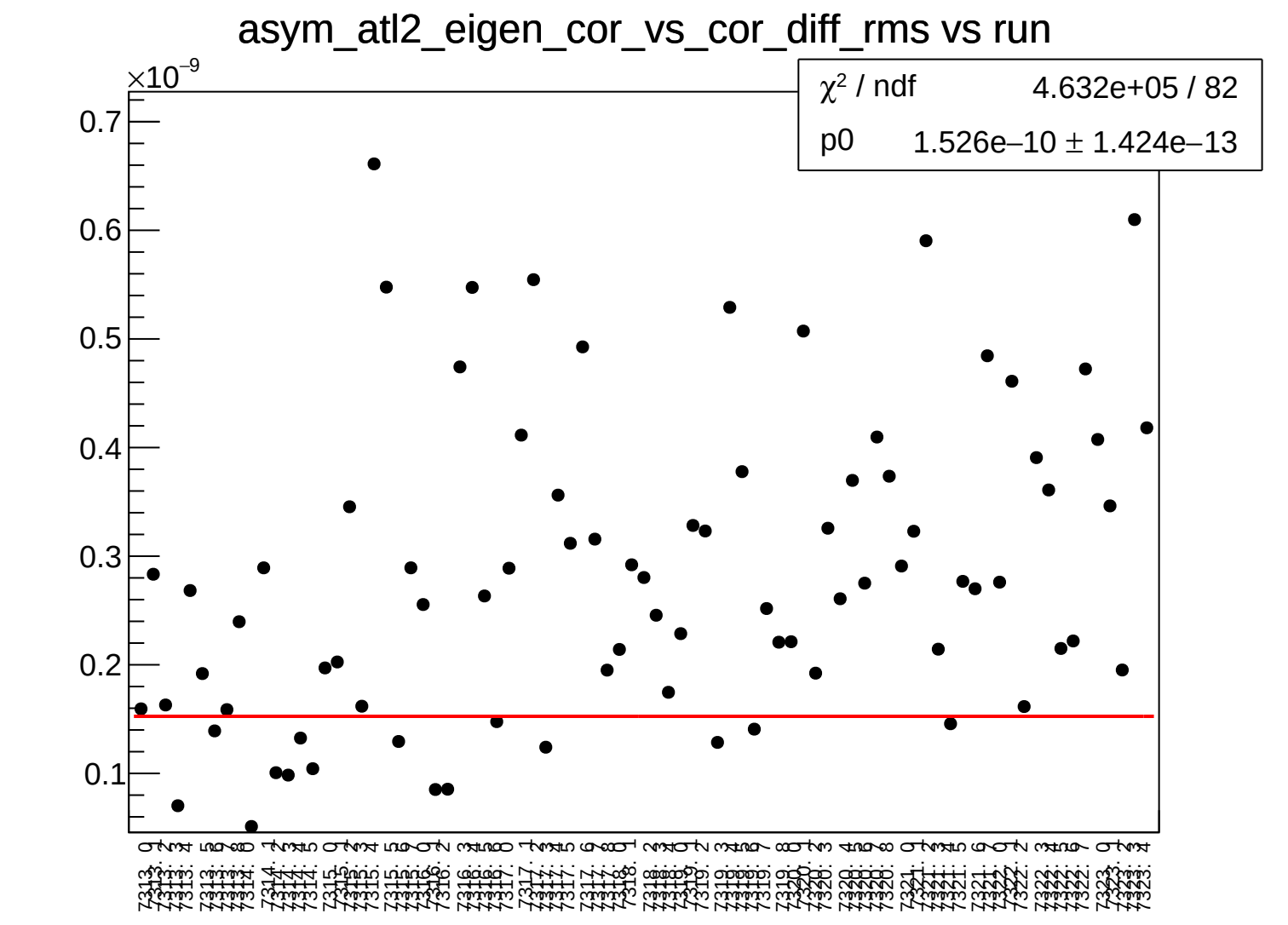

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.834e+04 / 82
p0 2103 ± 1.676
3200
3000
2800
2600
2400
2200
2000
1800
1600

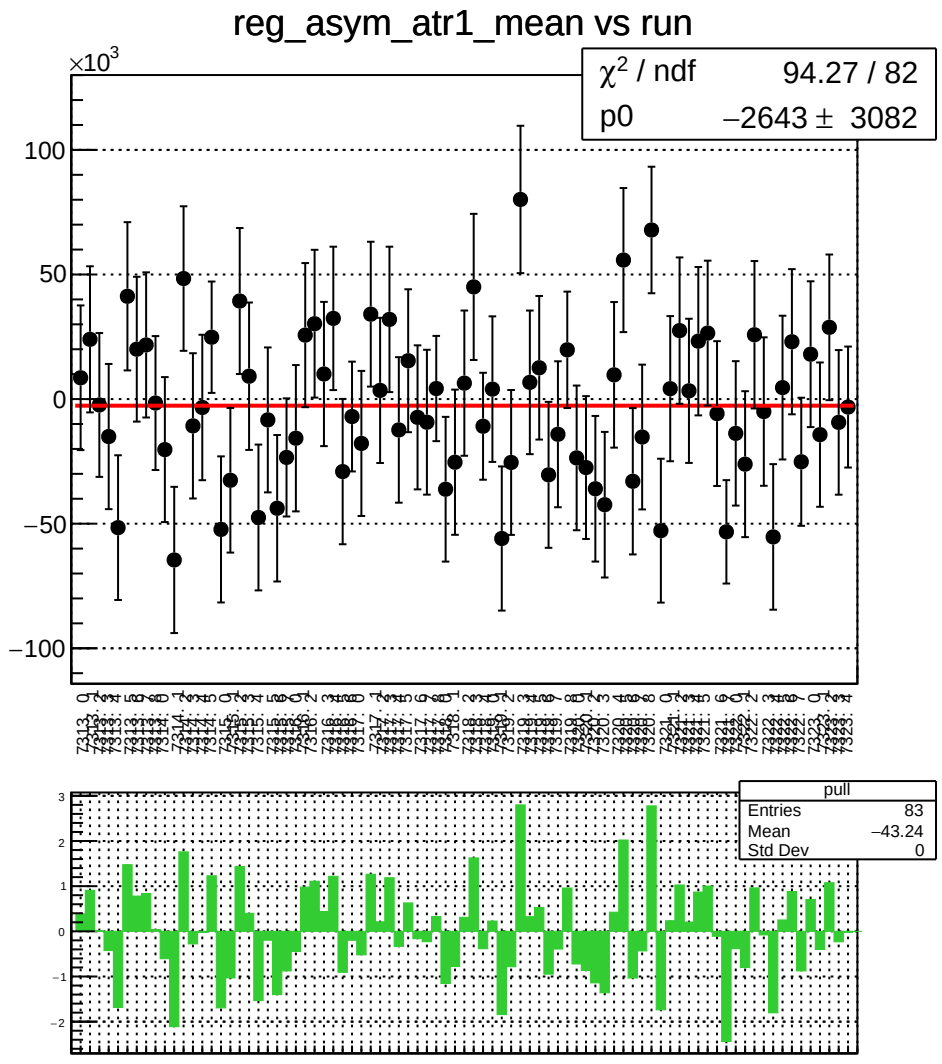

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 82
p0 1.86 ± 2.371
pull
Entries 83
Mean 347.1
Std Dev 0
pull1D
Entries 83
Mean 0.01692
Std Dev 1.032

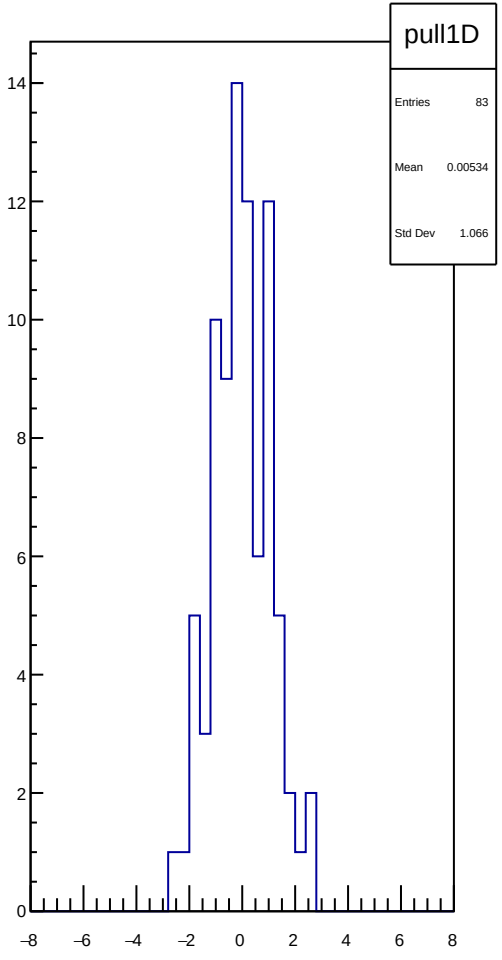

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.834e+04 / 82
p0 2103 ± 1.676
3200
3000
2800
2600
2400
2200
2000
1800
1600

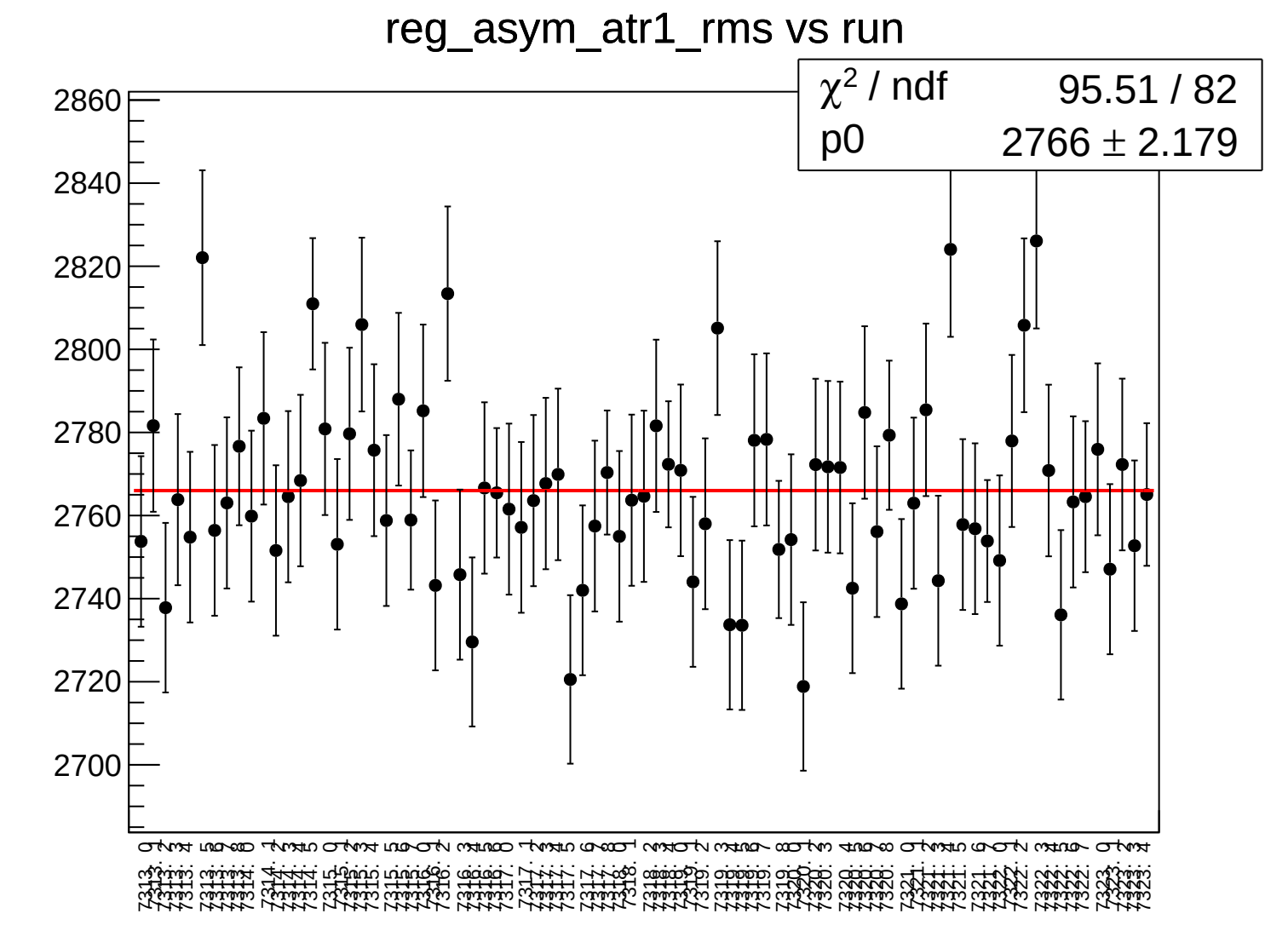

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.45 / 82
p0 −6.184e−15 ± 2.013e−13
pull
Entries 83
Mean −13.42
Std Dev 0

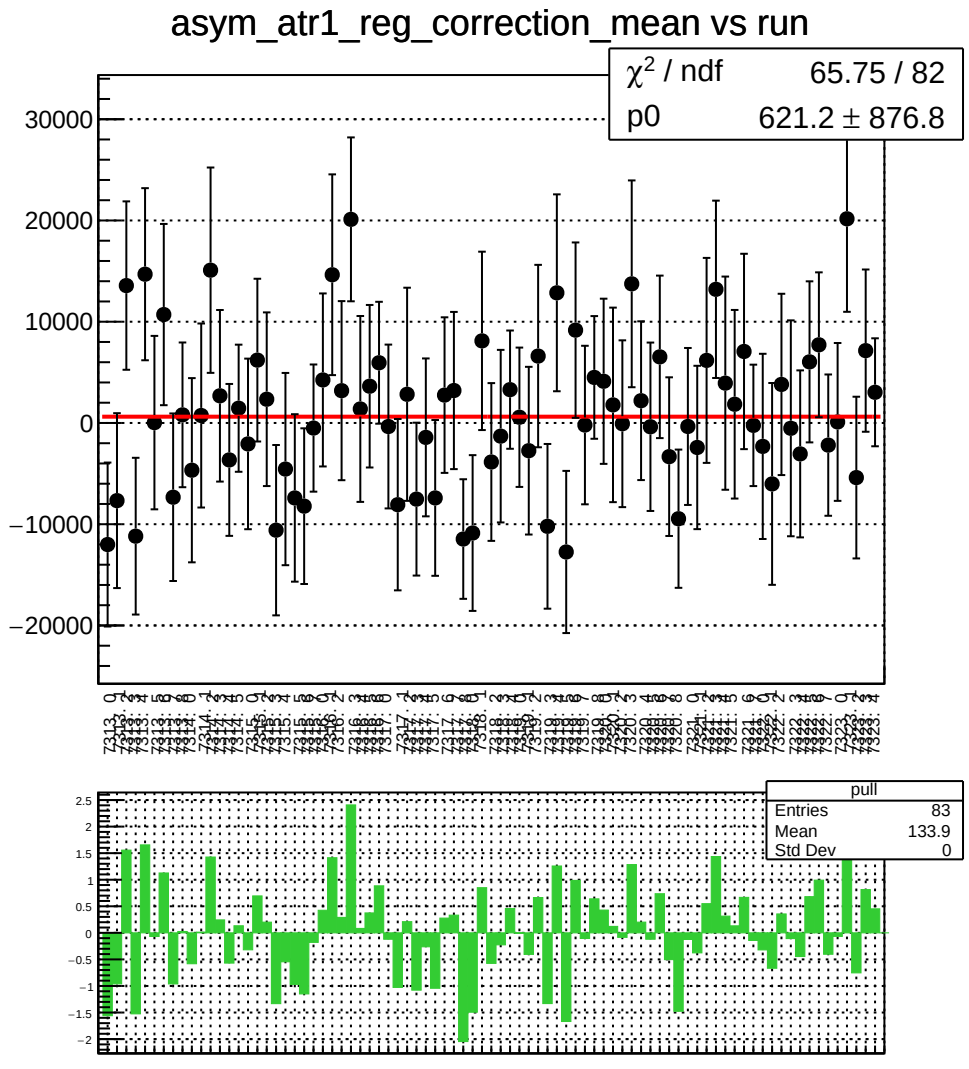

pull1D
Entries 83
Mean −0.03609
Std Dev 1.088

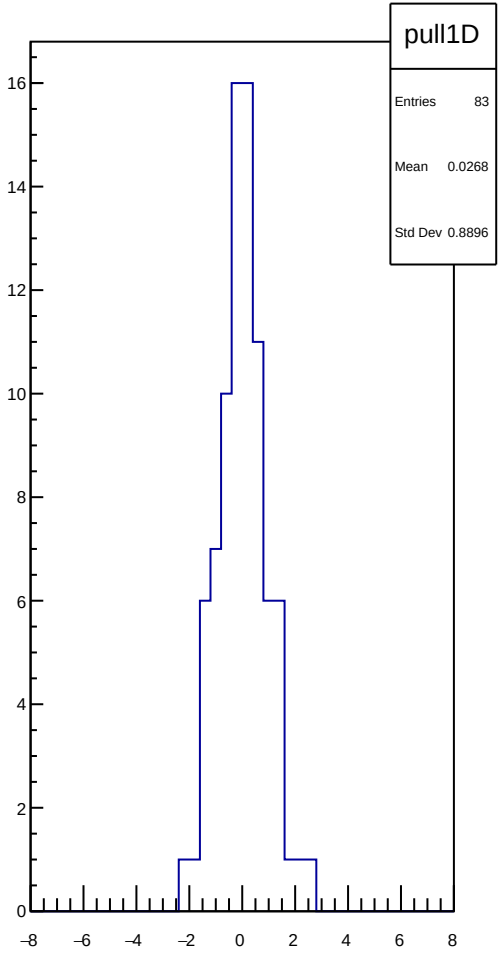

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.632e+05 / 82
p0 1.526e−10 ± 1.424e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

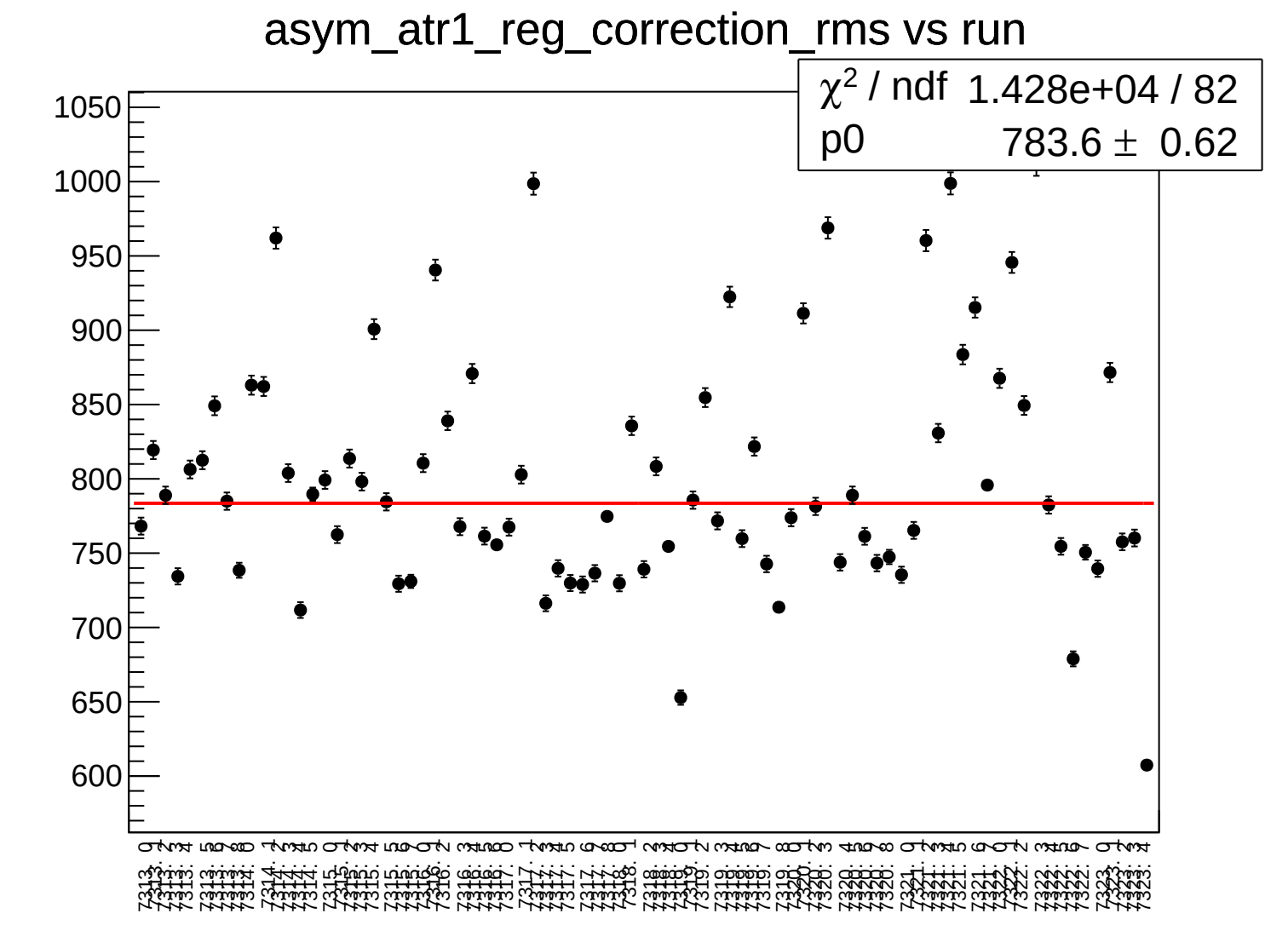

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 94.27 / 82
p0 −2643 ± 3082
100
50
0
−50
−100
pull
Entries 83
Mean −43.24
Std Dev 0
3
2
1
0
−1
−2

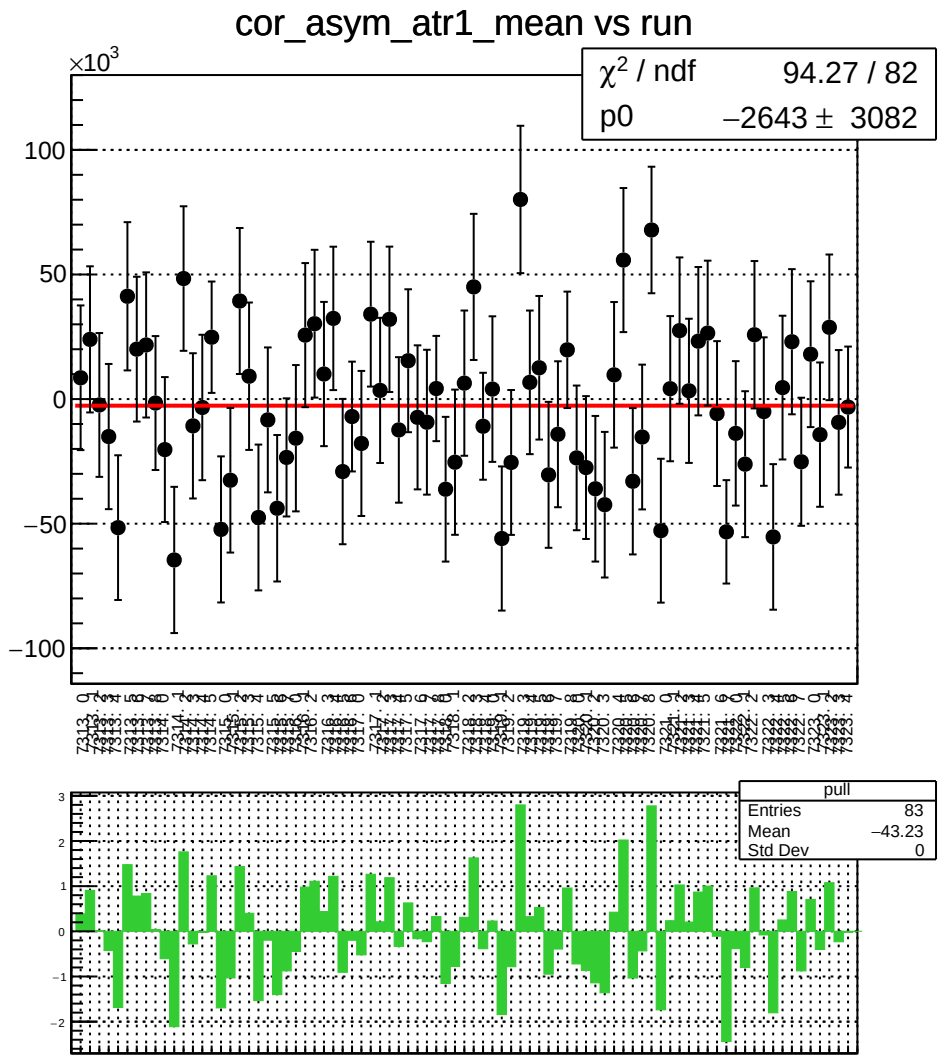

pull1D
Entries 83
Mean 0.00534
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

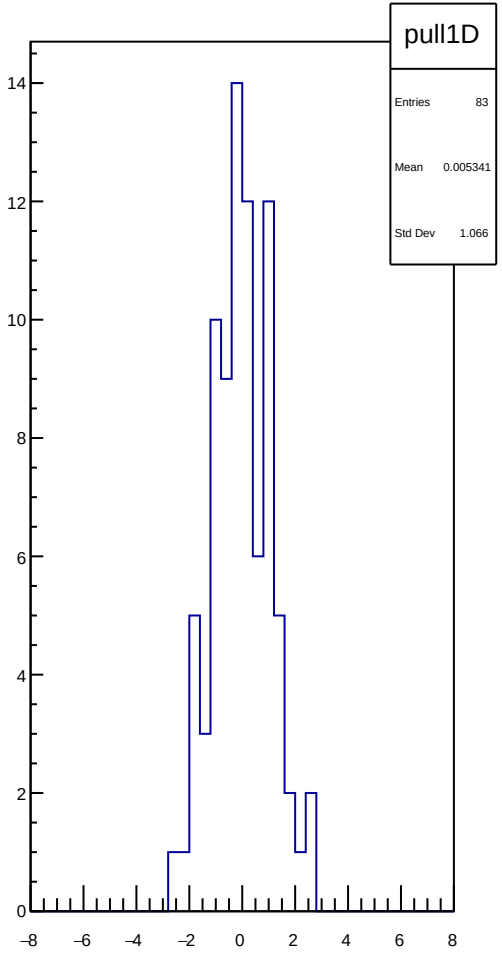

reg_asym_atr1_rms vs run
χ² / ndf 95.51 / 82
p0 2766 ± 2.179
2860
2840
2820
2800
2780
2760
2740
2720
2700

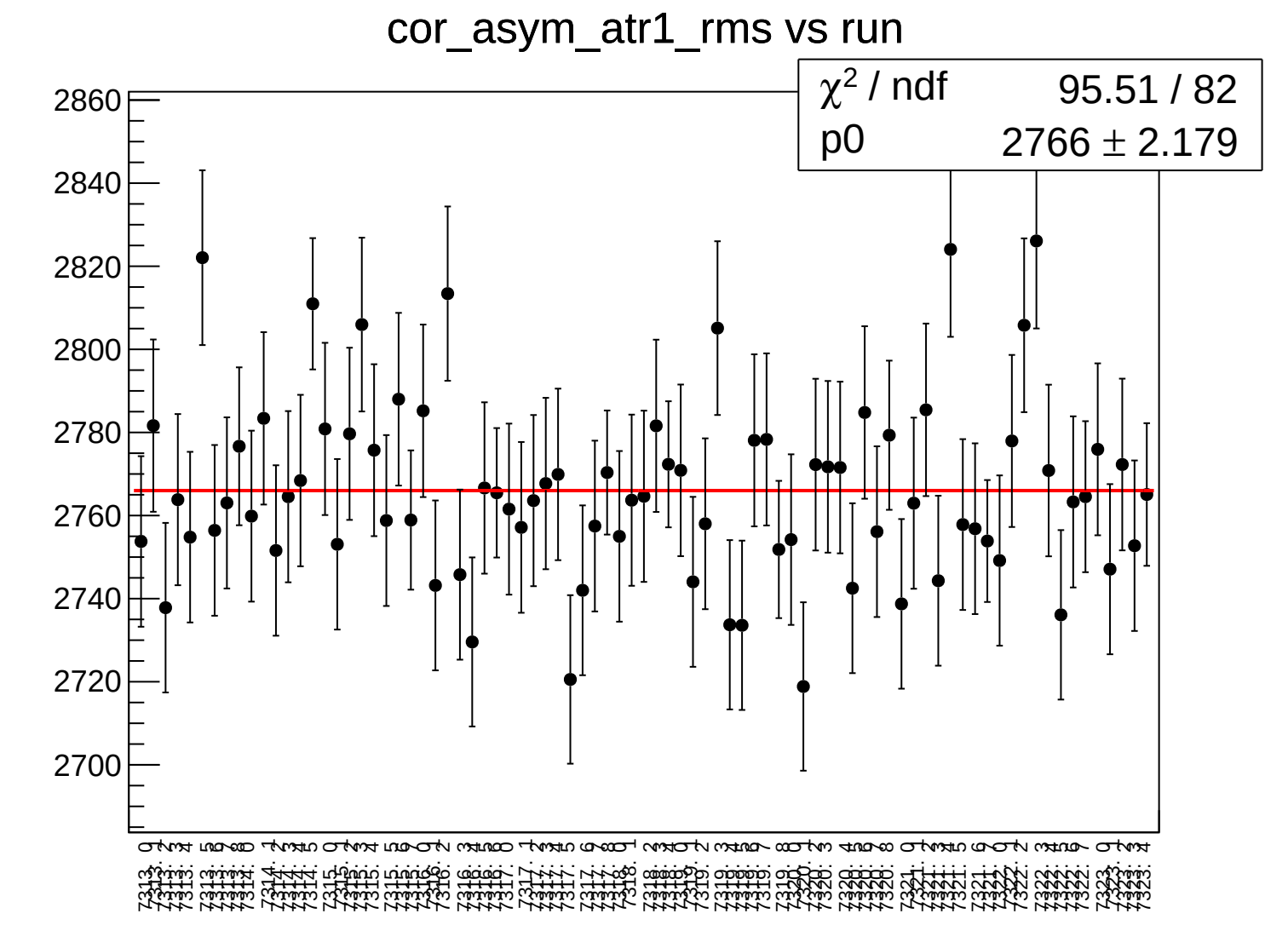

asym_atr1_reg_correction_mean vs run
χ² / ndf 65.75 / 82
p0 621.2 ± 876.8
pull
Entries 83
Mean 133.9
Std Dev 0

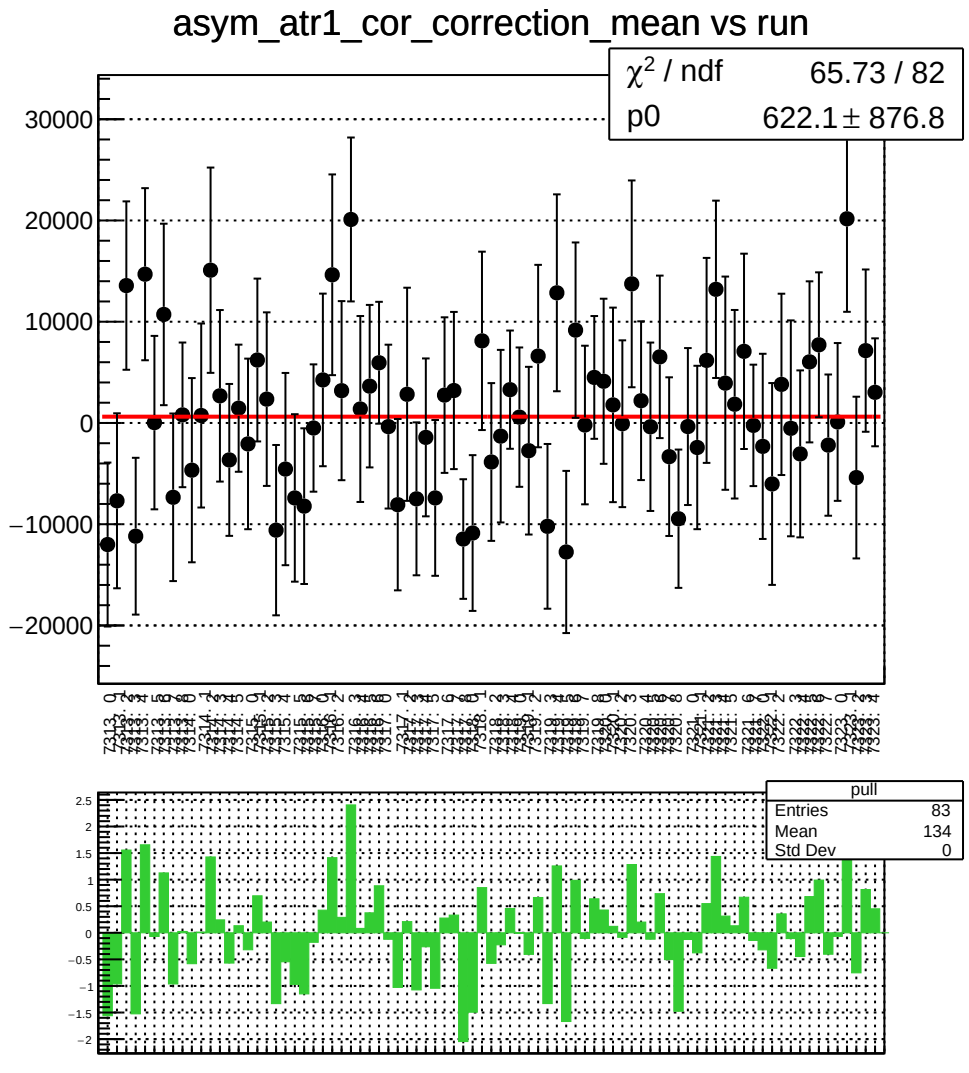

pull1D
Entries 83
Mean 0.0268
Std Dev 0.8896

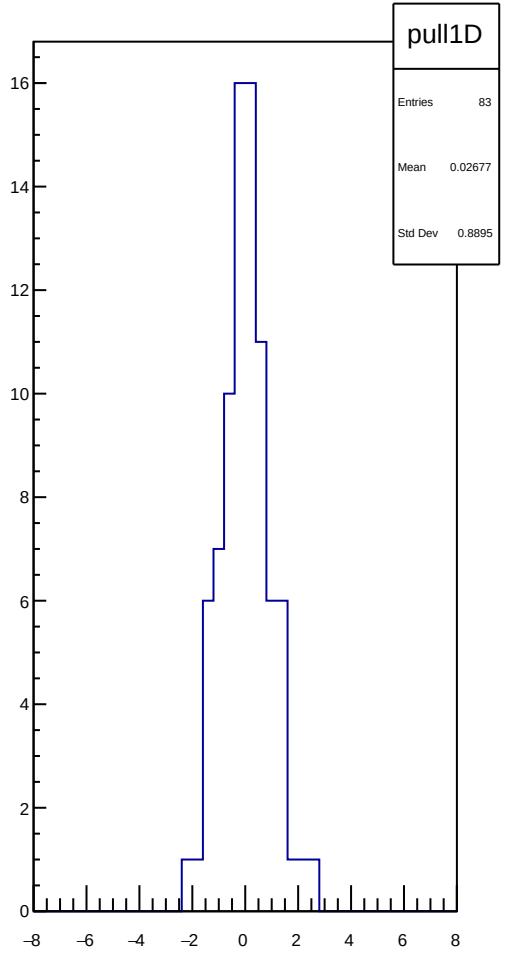

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.428e+04 / 82
p0 783.6 ± 0.62
1050
1000
950
900
850
800
750
700
650
600

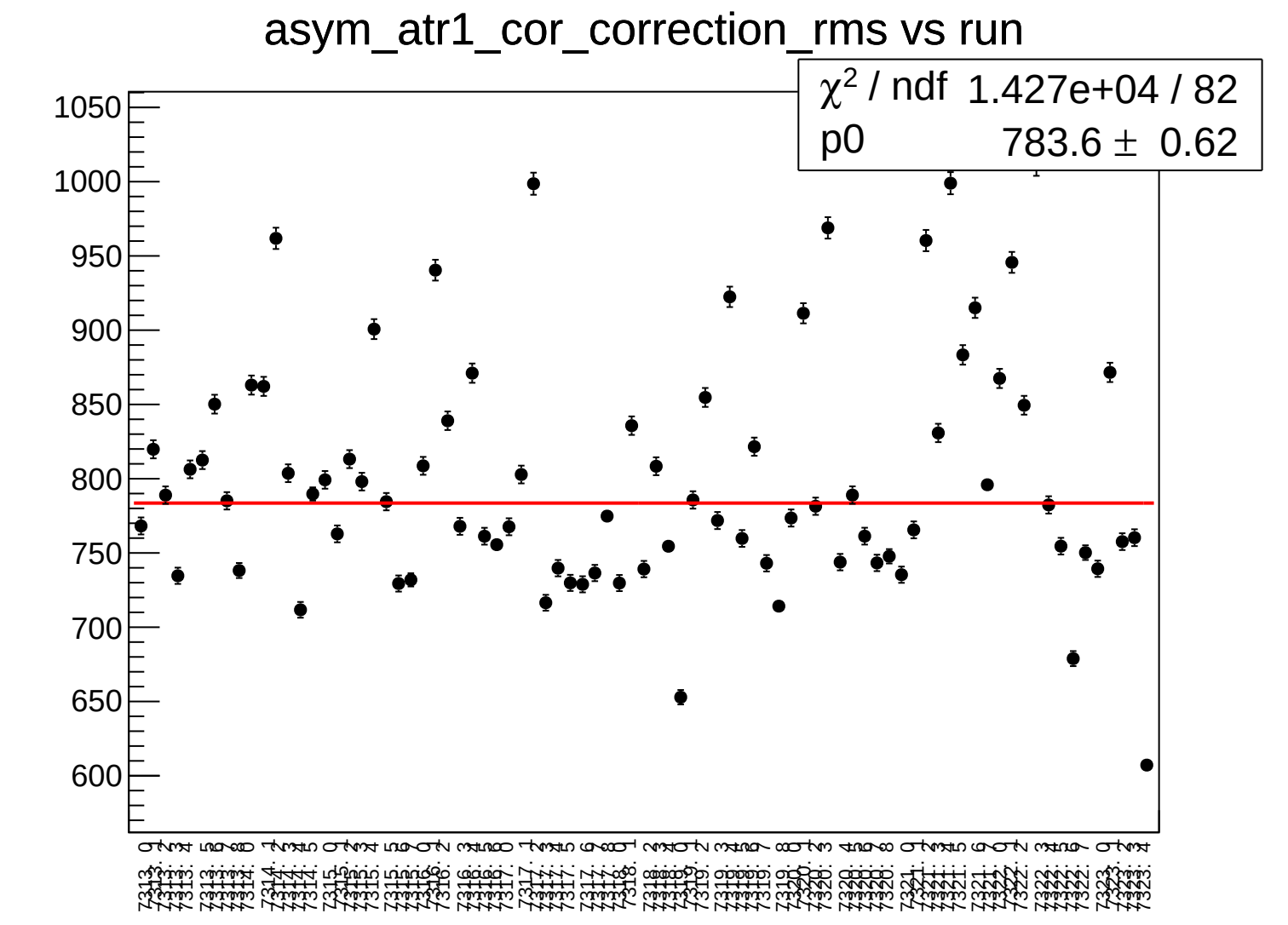

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 94.27 / 82
p0 −2643 ± 3082
100
50
0
−50
−100
pull
Entries 83
Mean −43.23
Std Dev 0
3
2
1
0
−1
−2

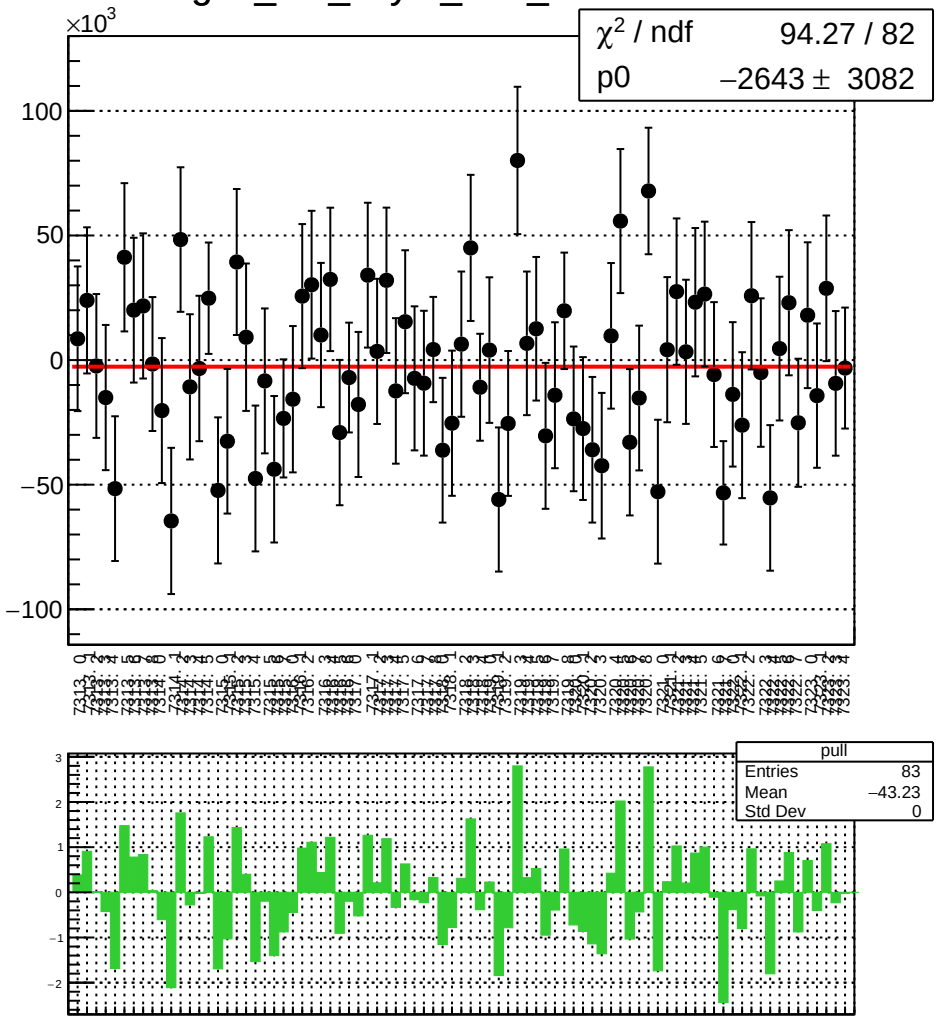

pull1D
Entries 83
Mean 0.005341
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

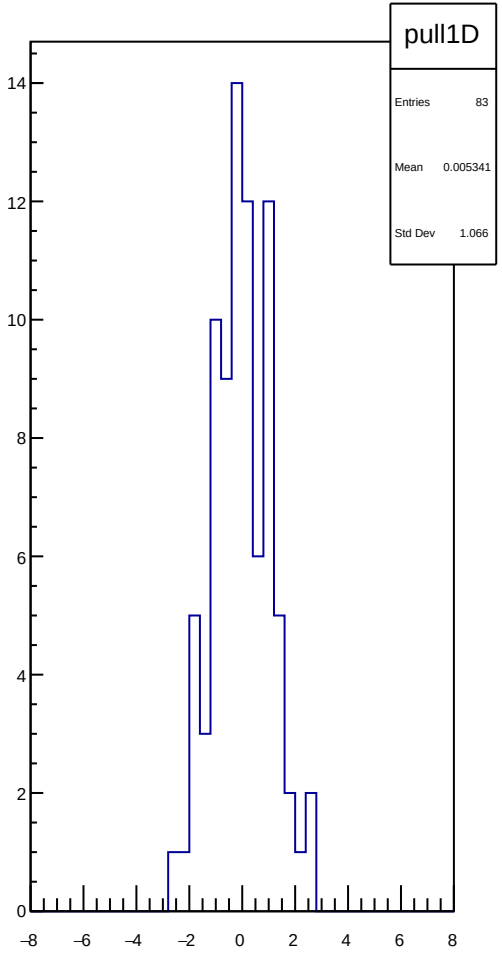

cor_asym_atr1_rms vs run
χ² / ndf 95.51 / 82
p0 2766 ± 2.179
2860
2840
2820
2800
2780
2760
2740
2720
2700

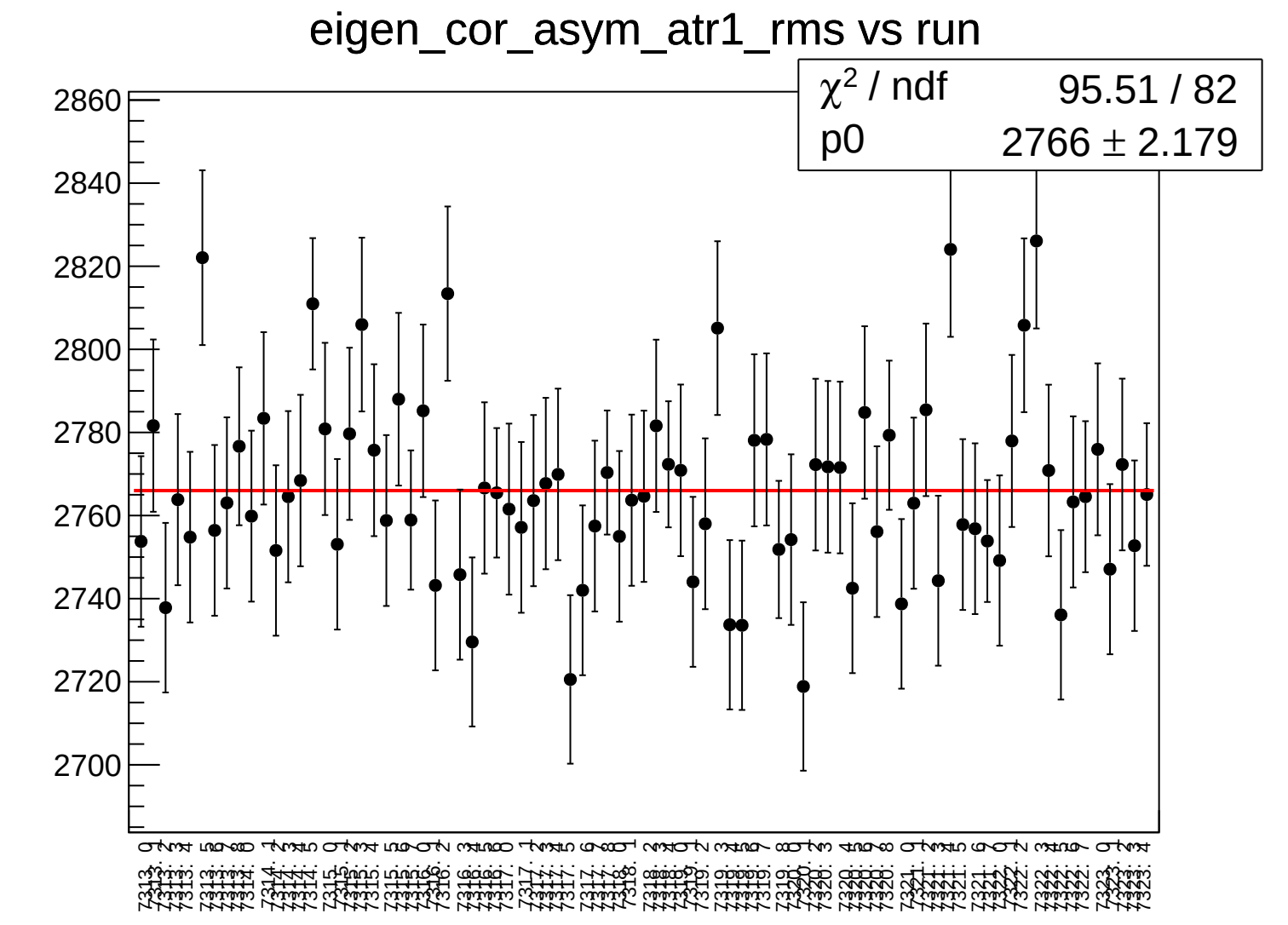

asym_atr1_cor_correction_mean vs run
χ² / ndf 65.73 / 82
p0 622.1 ± 876.8
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 134
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

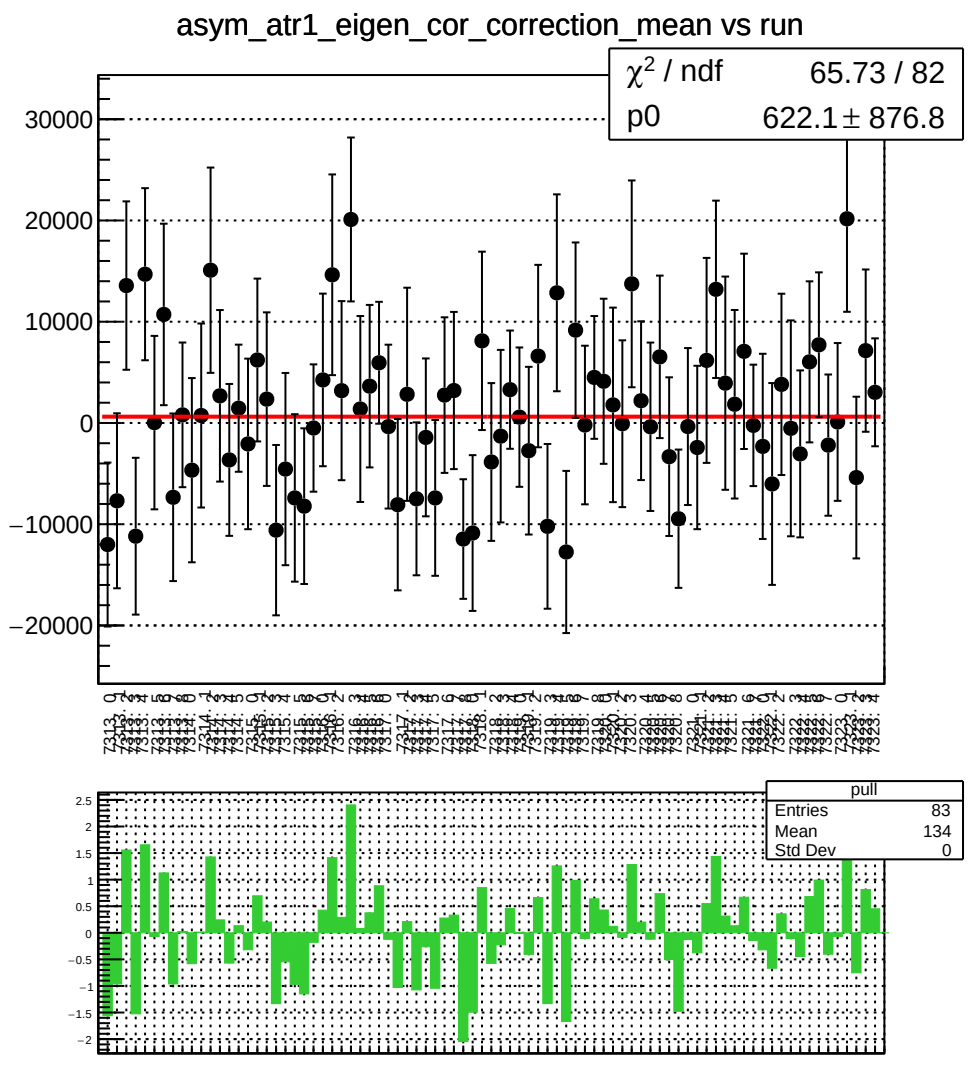

pull1D
Entries 83
Mean 0.02677
Std Dev 0.8895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

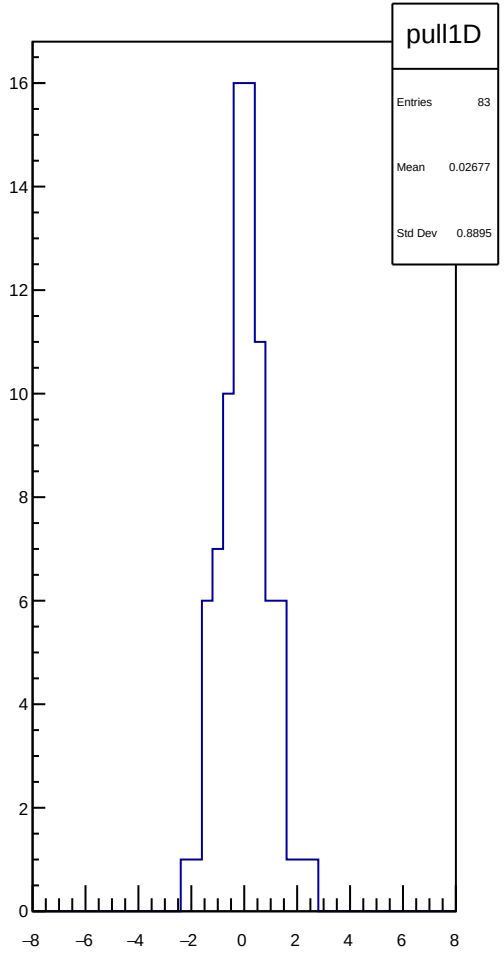

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.427e+04 / 82
p0 783.6 ± 0.62
1050
1000
950
900
850
800
750
700
650
600

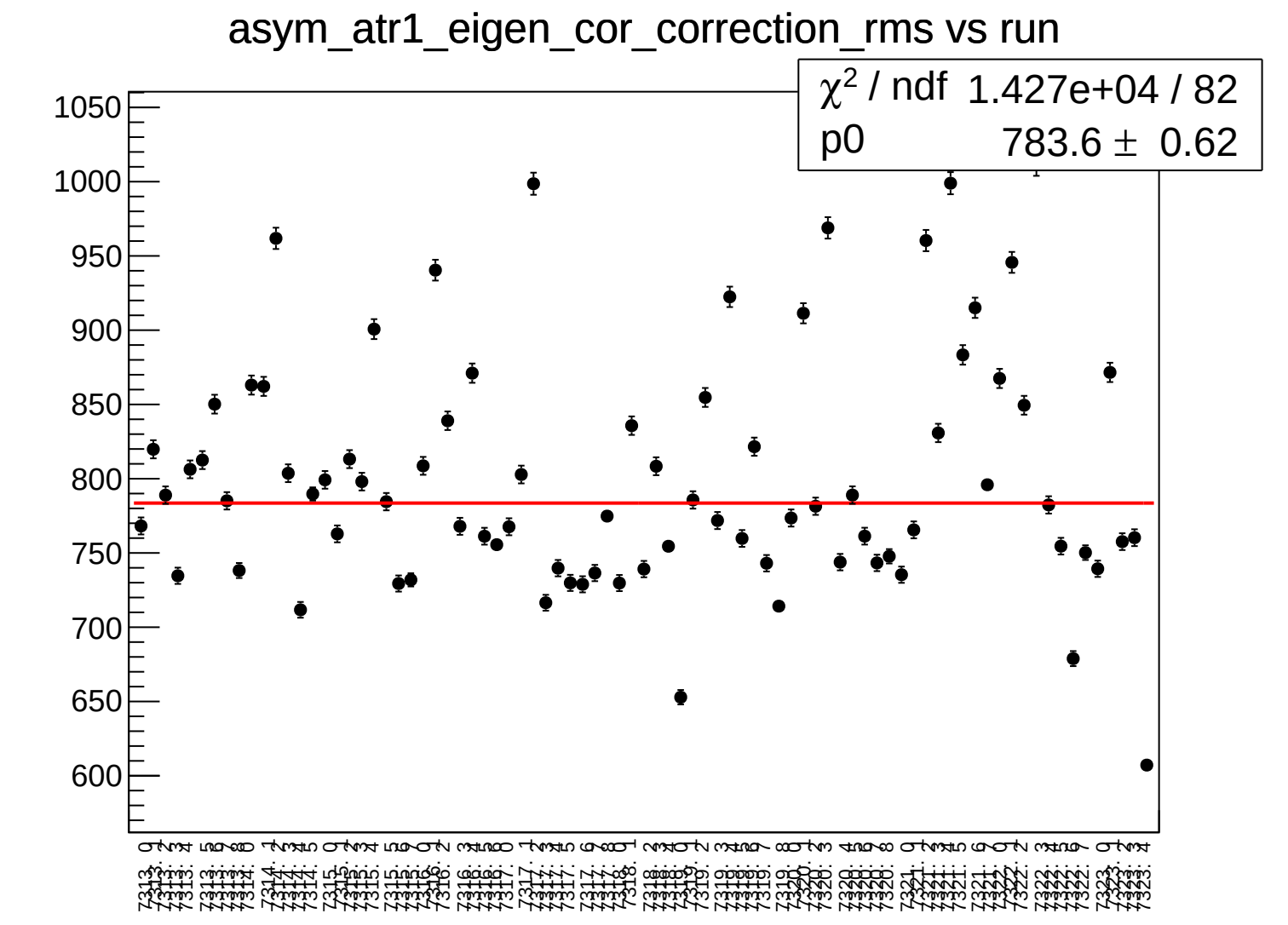

eigen_cor_asym_atr1_mean vs run
χ² / ndf 94.27 / 82
p0 −2643 ± 3082
×10³
100
50
0
−50
−100
pull
Entries 83
Mean −43.23
Std Dev 0
3
2
1
0
−1
−2

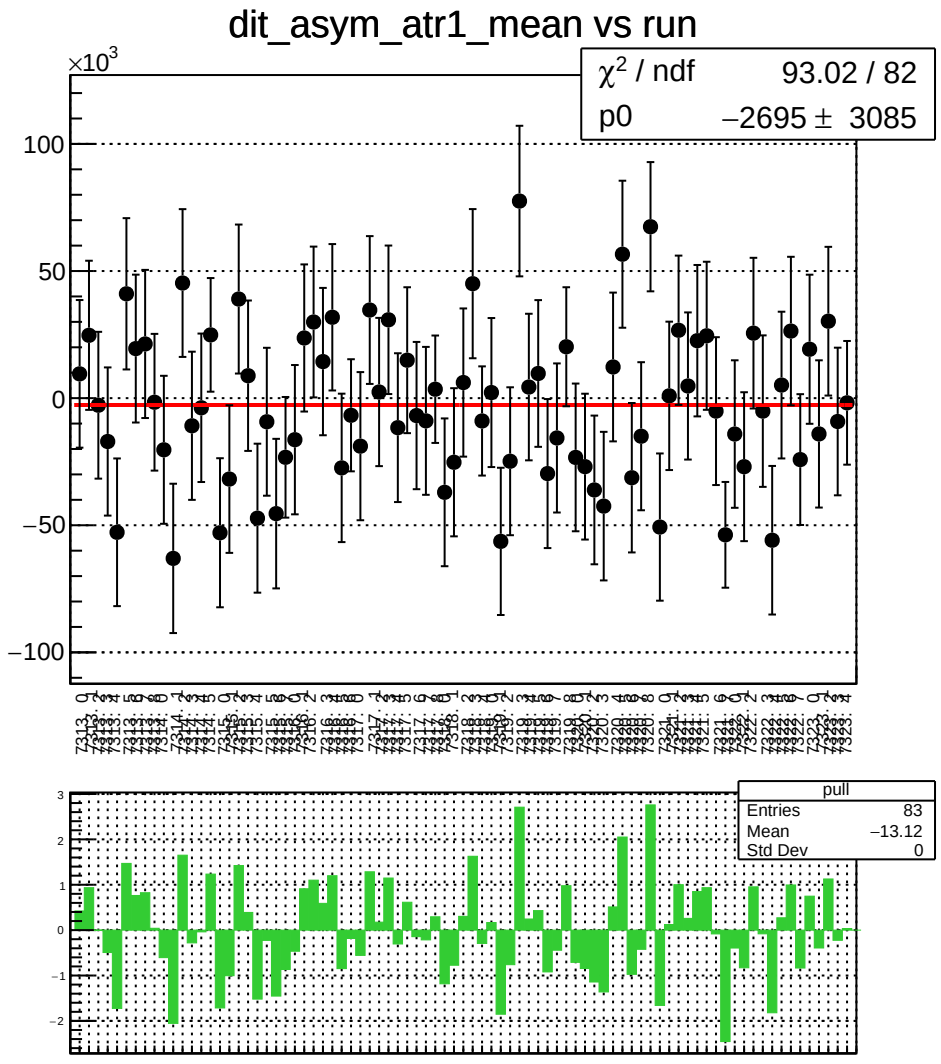

pull1D
Entries 83
Mean 0.005341
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

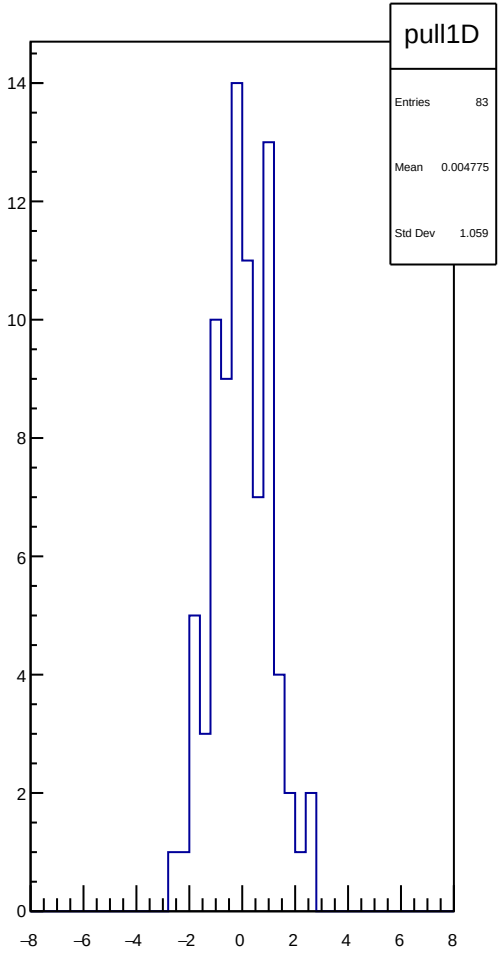

eigen_cor_asym_atr1_rms vs run
χ² / ndf 95.51 / 82
p0 2766 ± 2.179
2860
2840
2820
2800
2780
2760
2740
2720
2700

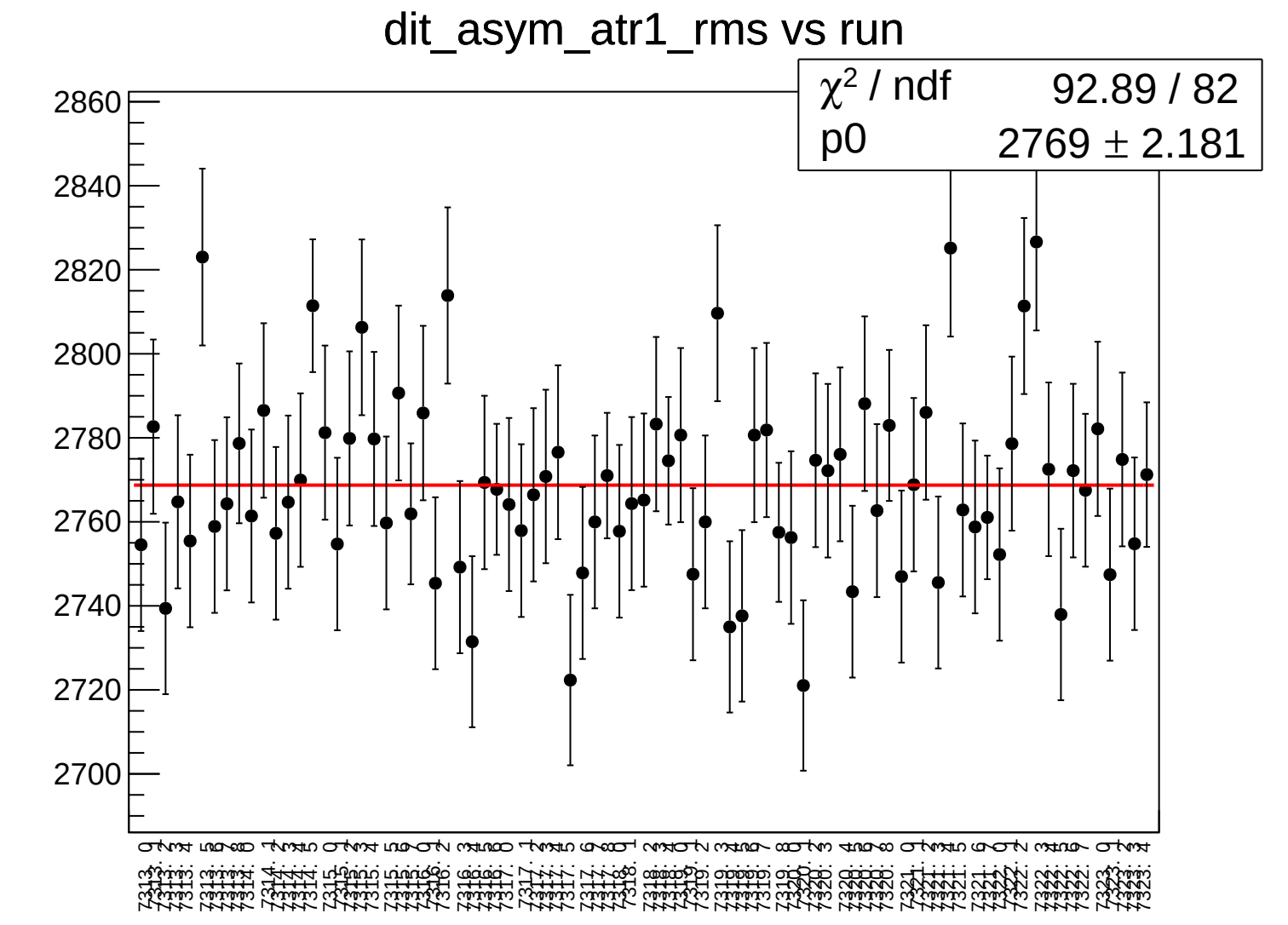

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 65.73 / 82
p0 622.1 ± 876.8
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 134
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

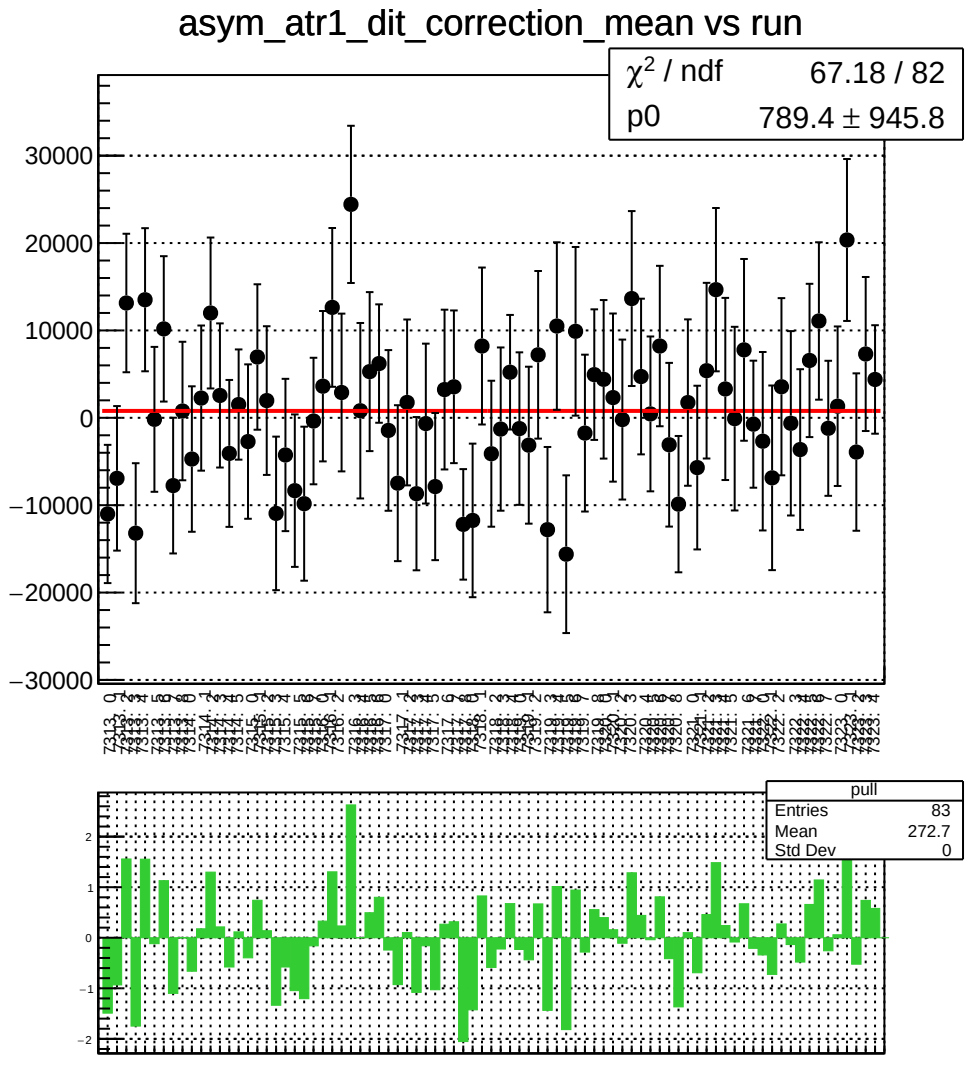

pull1D
Entries 83
Mean 0.02677
Std Dev 0.8895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

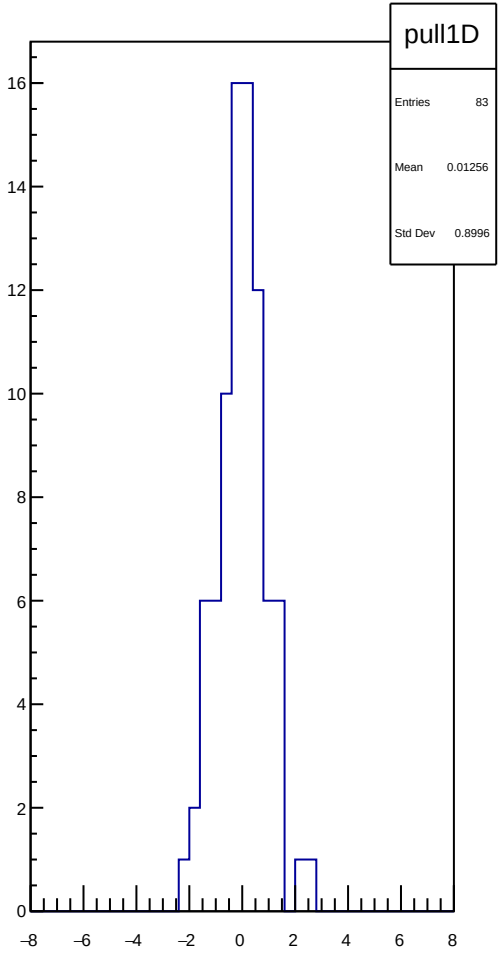

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.427e+04 / 82
p0 783.6 ± 0.62
1050
1000
950
900
850
800
750
700
650
600

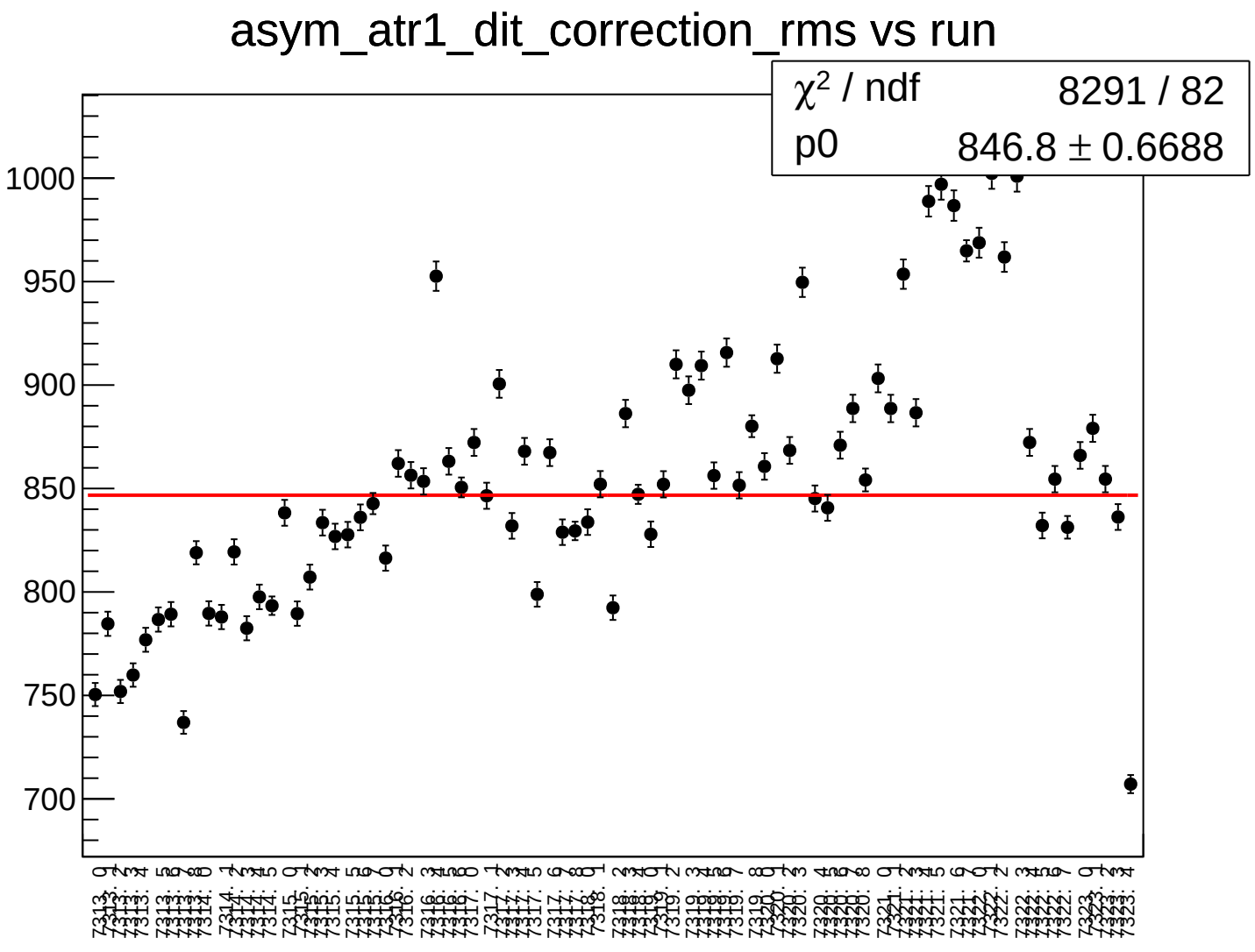

dit_asym_atr1_mean vs run
χ^2 / ndf 93.02 / 82
p0 −2695 ± 3085
×10^3
pull
Entries 83
Mean −13.12
Std Dev 0

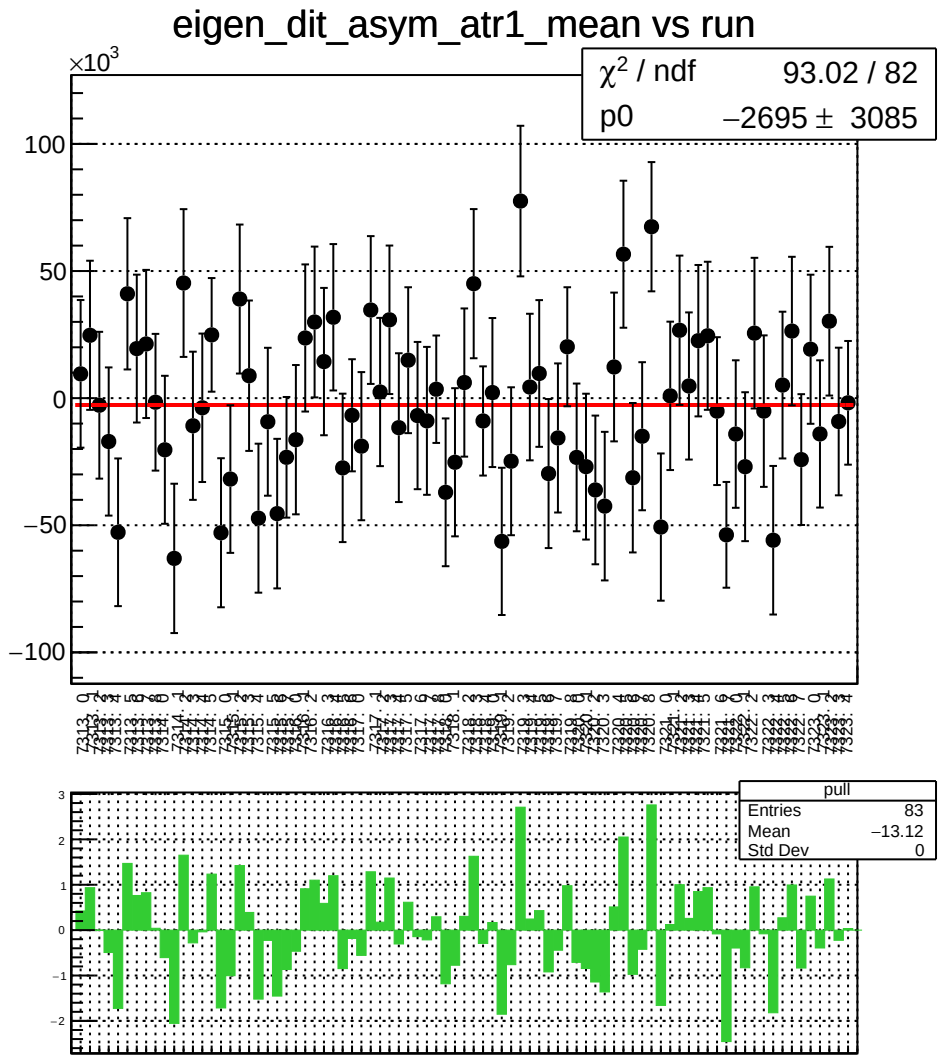

pull1D
Entries 83
Mean 0.004775
Std Dev 1.059

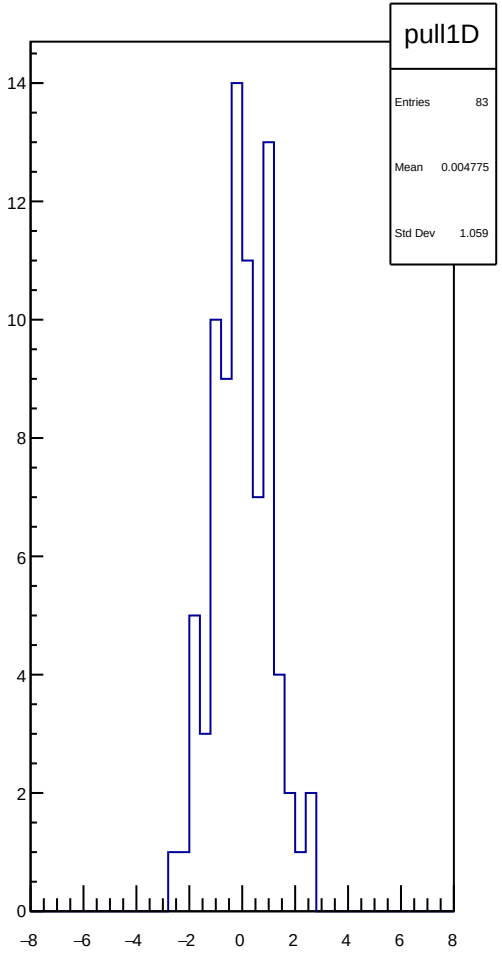

dit_asym_atr1_rms vs run
χ² / ndf 92.89 / 82
p0 2769 ± 2.181
2860
2840
2820
2800
2780
2760
2740
2720
2700

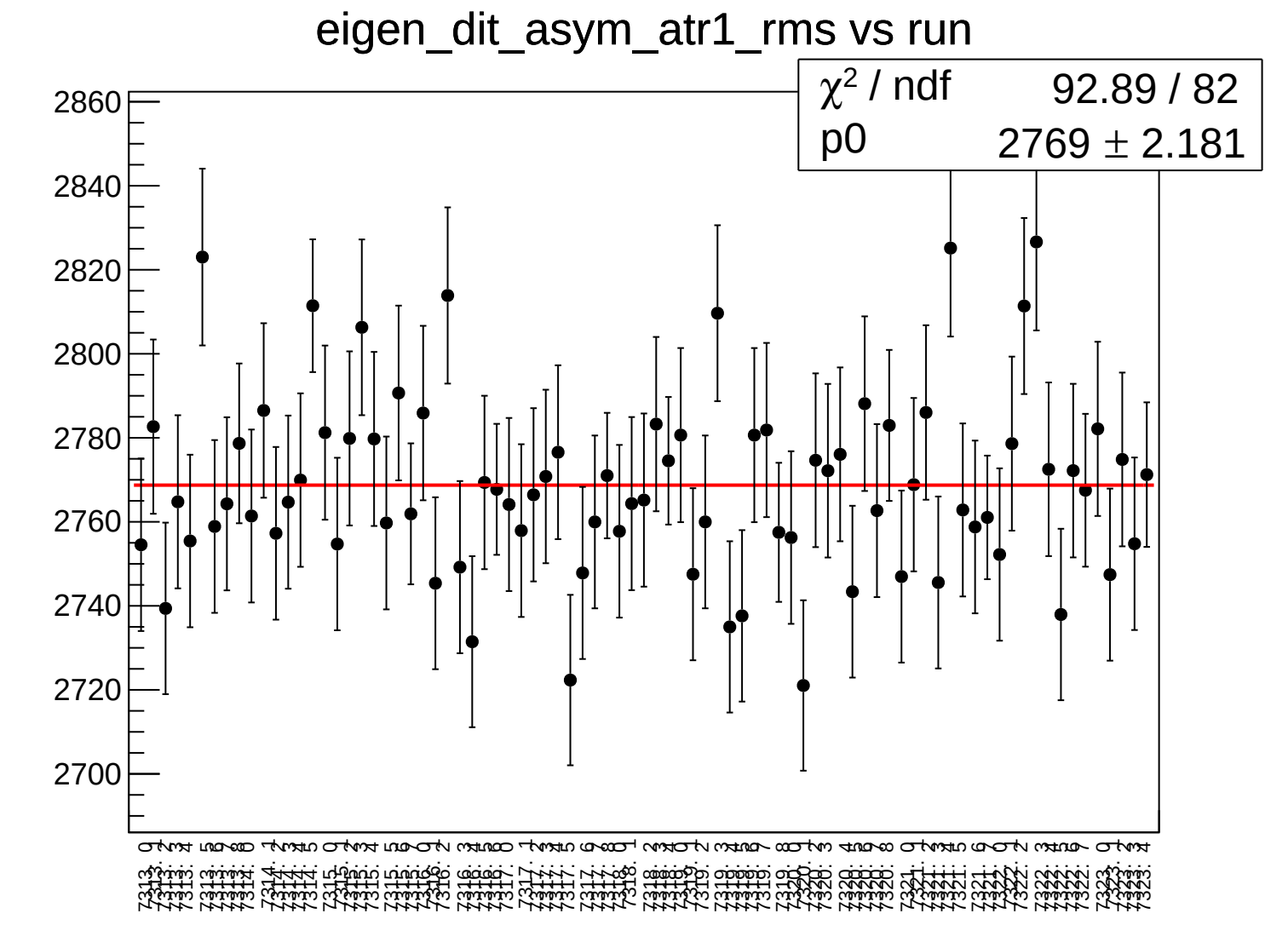

asym_atr1_dit_correction_mean vs run
χ² / ndf 67.18 / 82
p0 789.4 ± 945.8
pull
Entries 83
Mean 272.7
Std Dev 0

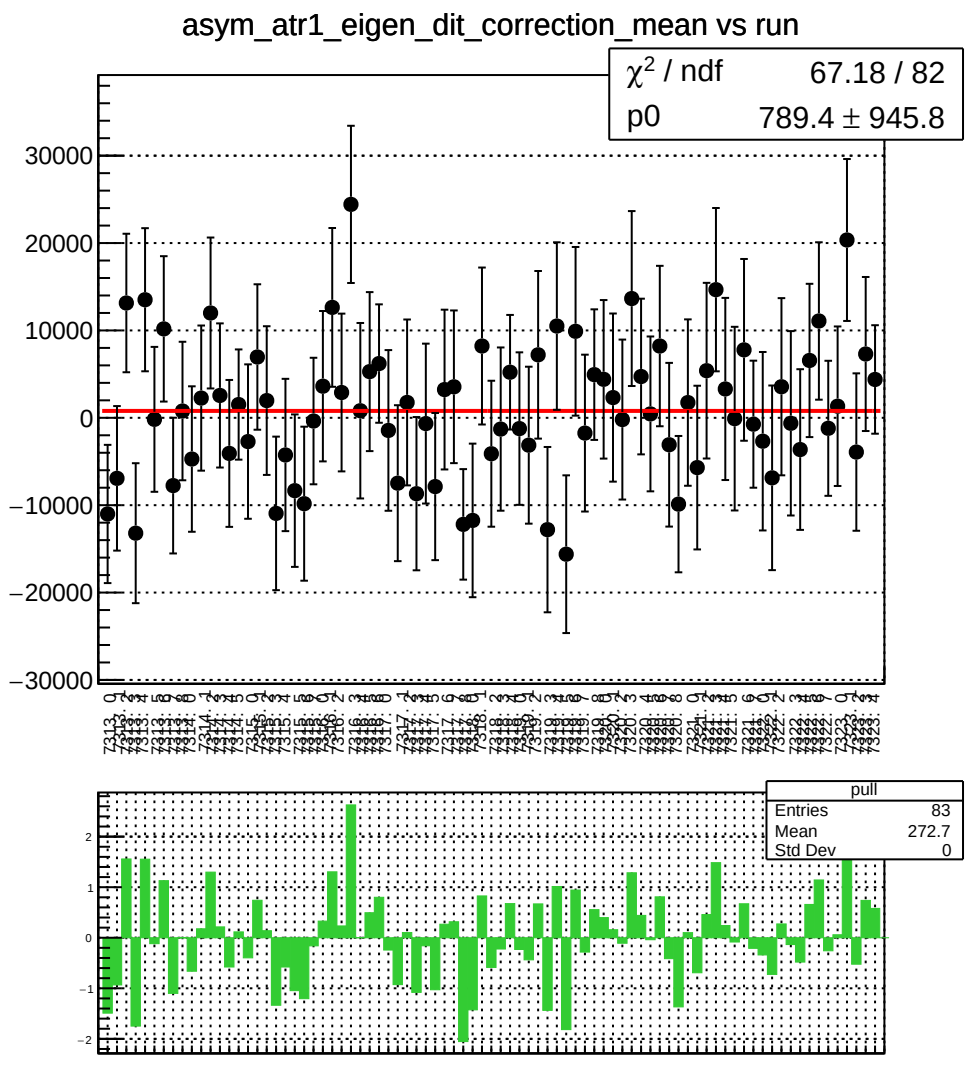

pull1D
Entries 83
Mean 0.01256
Std Dev 0.8996

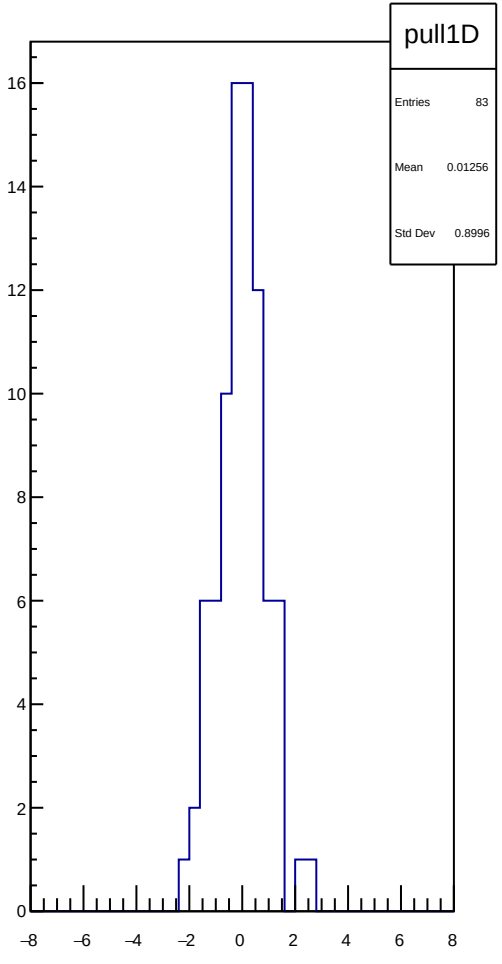

asym_atr1_dit_correction_rms vs run
χ² / ndf 8291 / 82
p0 846.8 ± 0.6688
1000
950
900
850
800
750
700

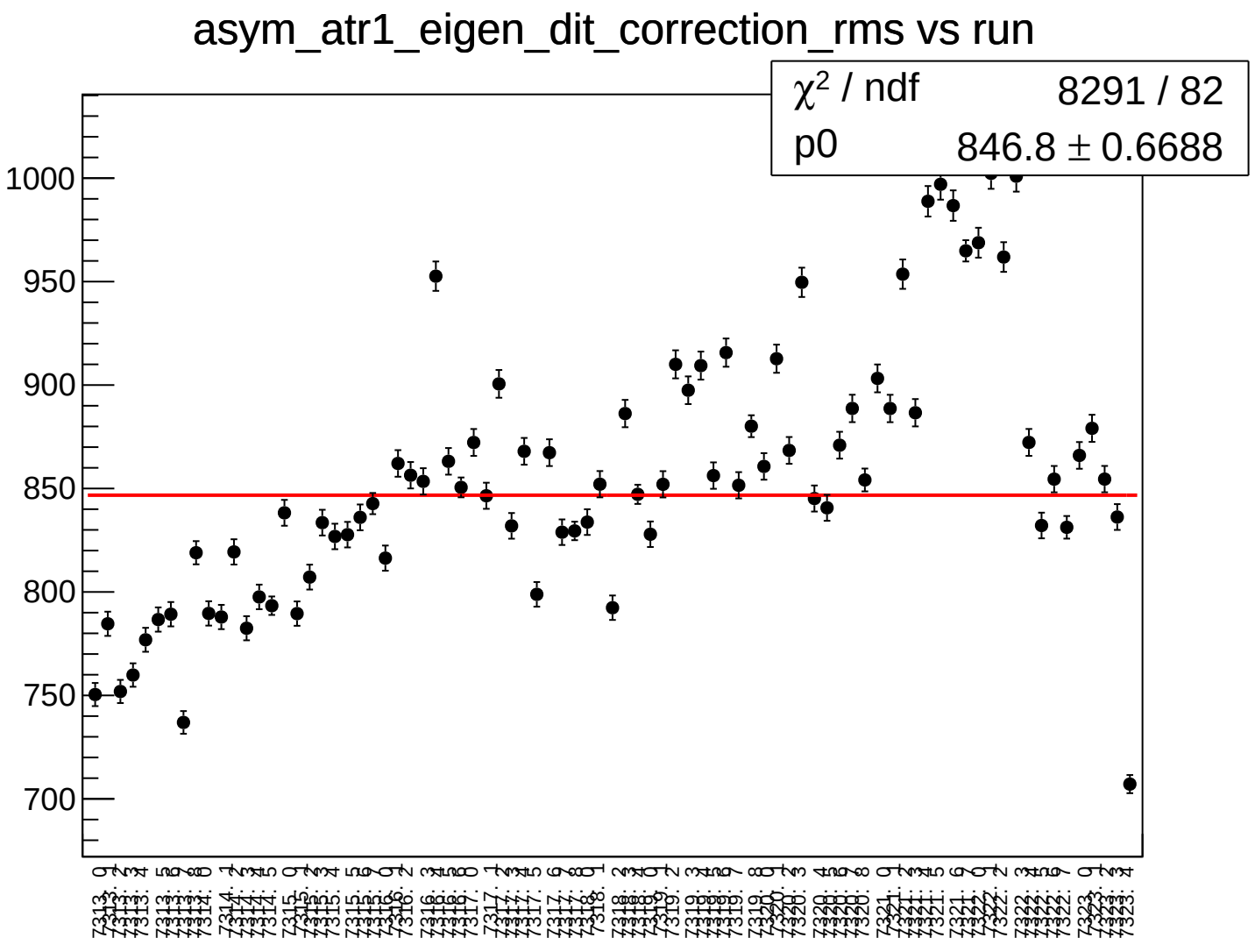

eigen_dit_asym_atr1_mean vs run
χ² / ndf 93.02 / 82
p0 −2695 ± 3085
pull
Entries 83
Mean −13.12
Std Dev 0

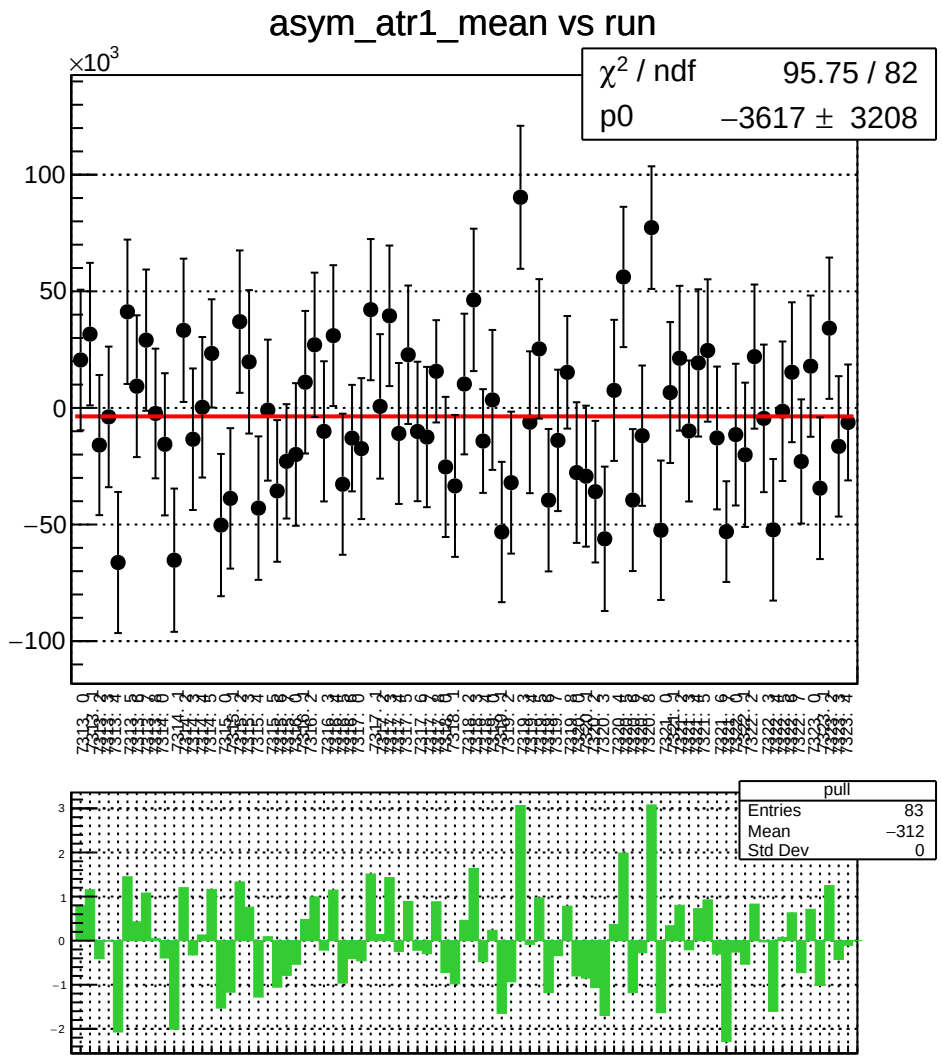

pull1D
Entries 83
Mean 0.004775
Std Dev 1.059

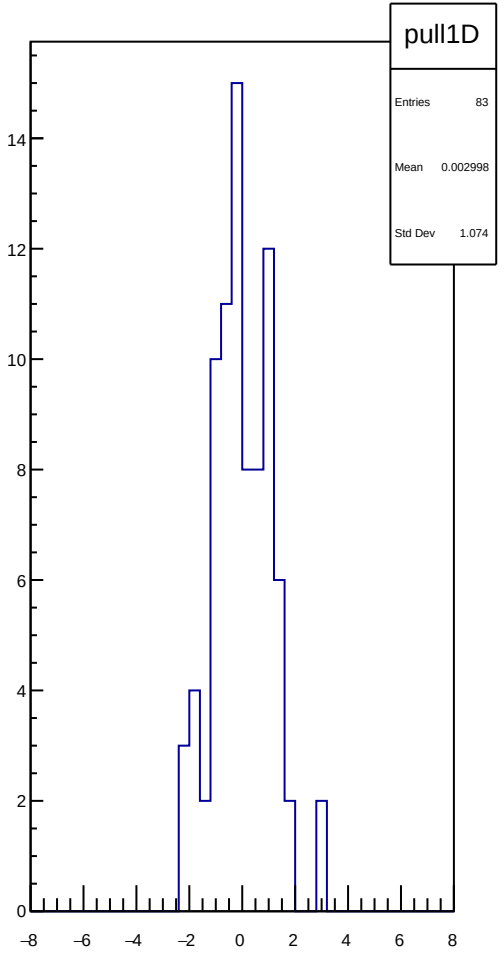

eigen_dit_asym_atr1_rms vs run
χ² / ndf 92.89 / 82
p0 2769 ± 2.181
2860
2840
2820
2800
2780
2760
2740
2720
2700

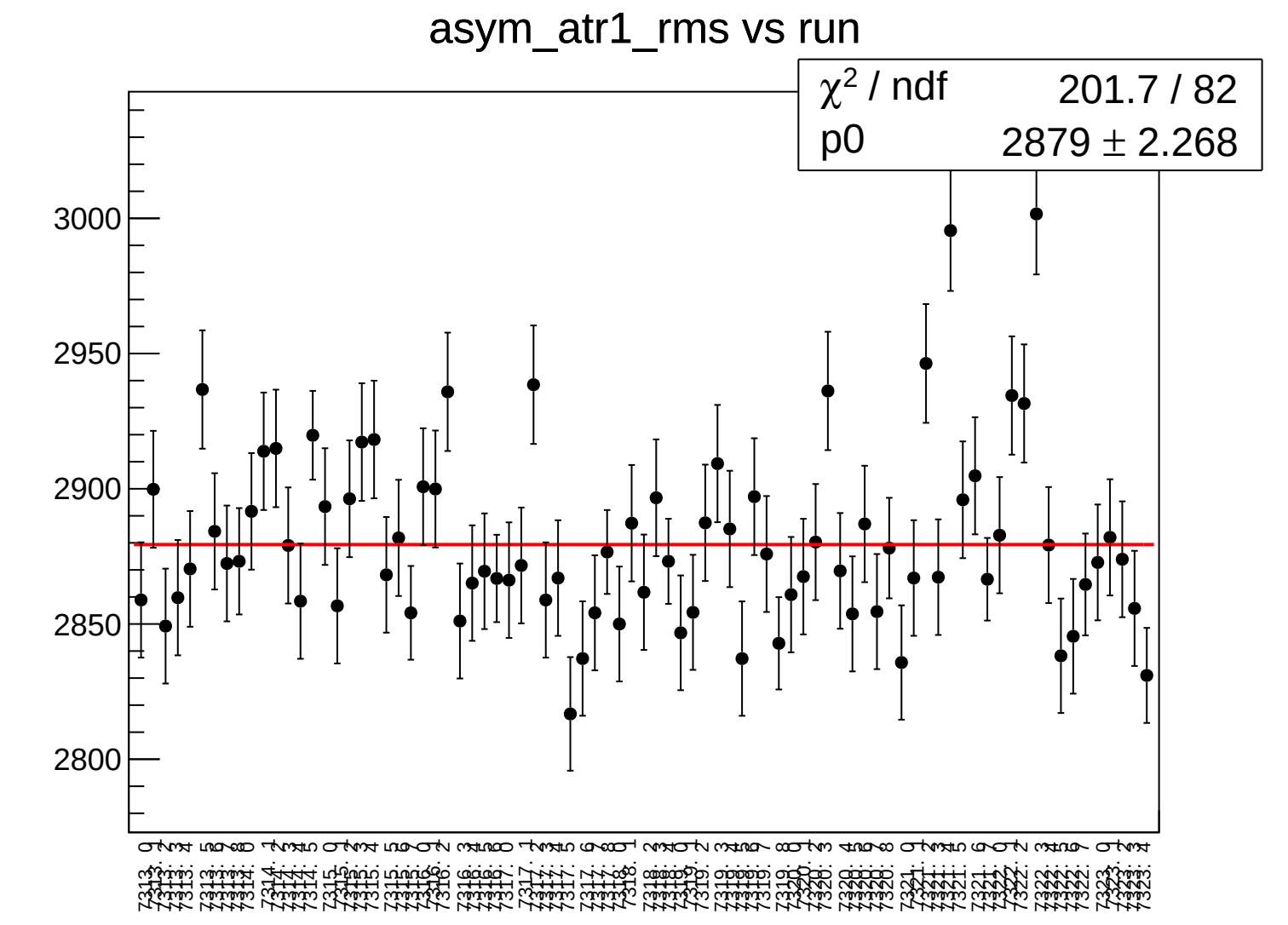

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 67.18 / 82
p0 789.4 ± 945.8
pull
Entries 83
Mean 272.7
Std Dev 0

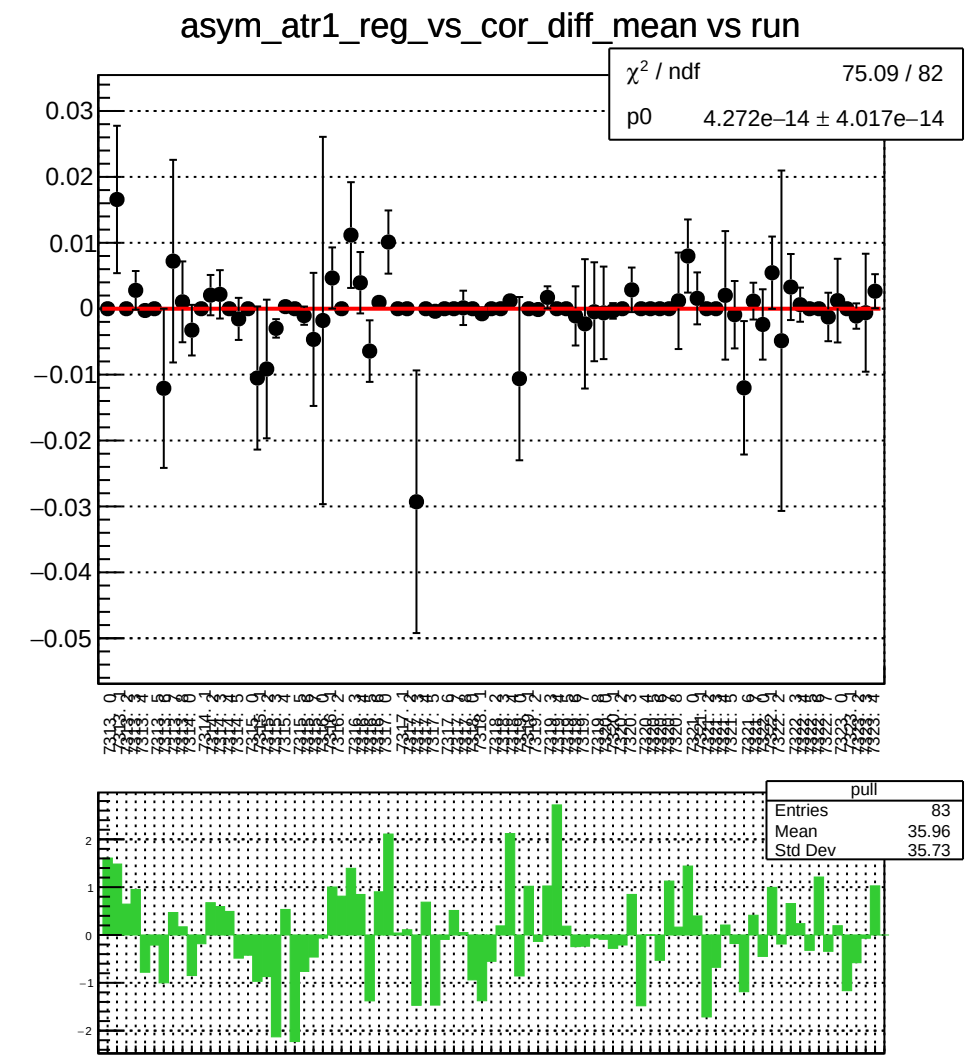

pull1D
Entries 83
Mean 0.01256
Std Dev 0.8996

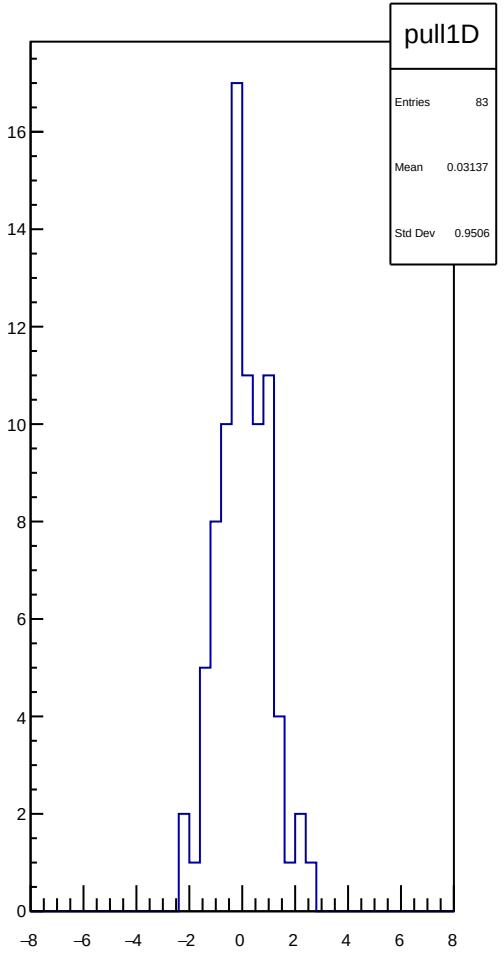

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 8291 / 82
p0 846.8 ± 0.6688
1000
950
900
850
800
750
700

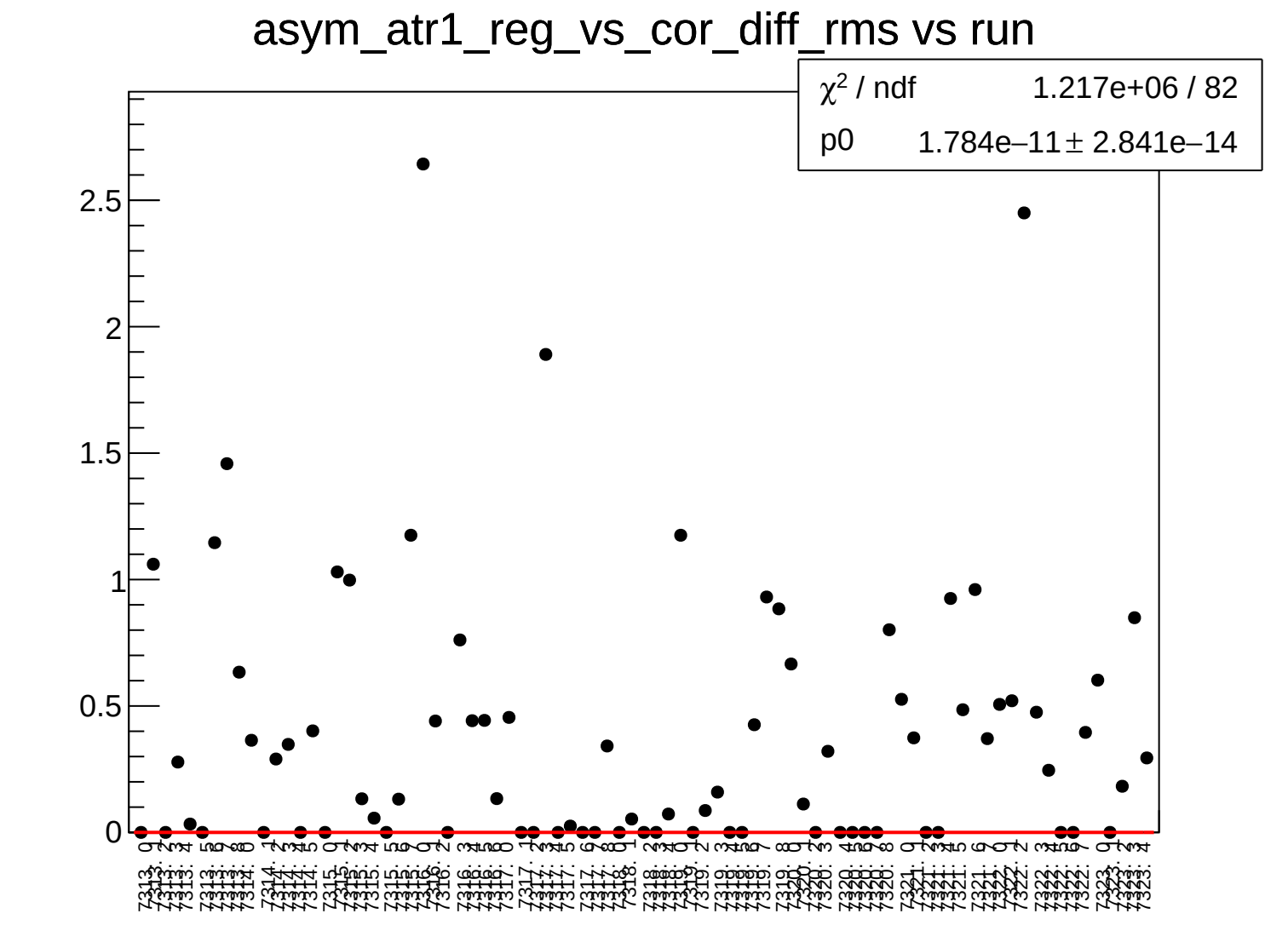

asym_atr1_mean vs run
×10^3
χ² / ndf 95.75 / 82
p0 −3617 ± 3208
100
50
0
−50
−100
pull
Entries 83
Mean −312
Std Dev 0
3
2
1
0
−1
−2

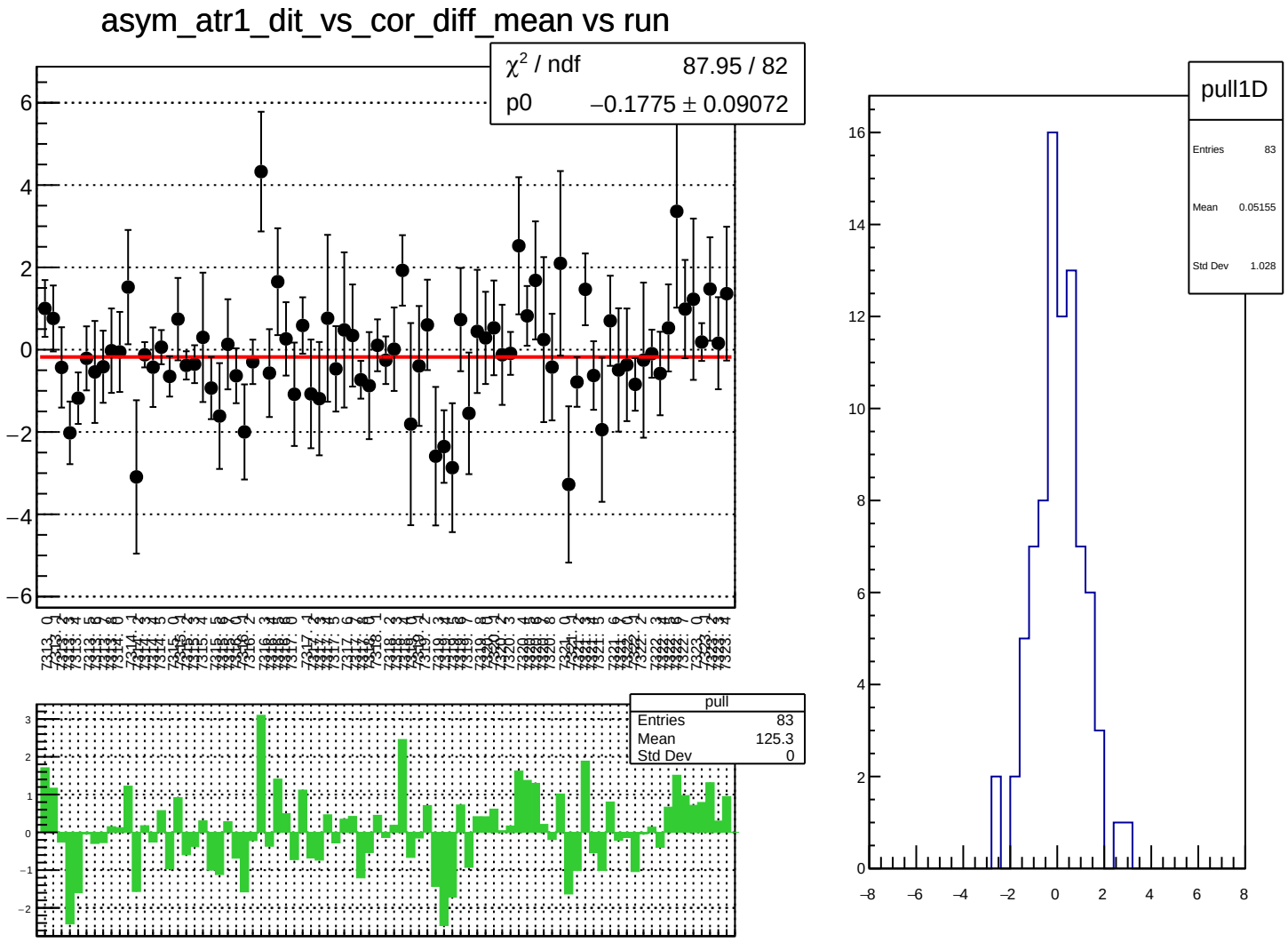

pull1D
Entries 83
Mean 0.002998
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

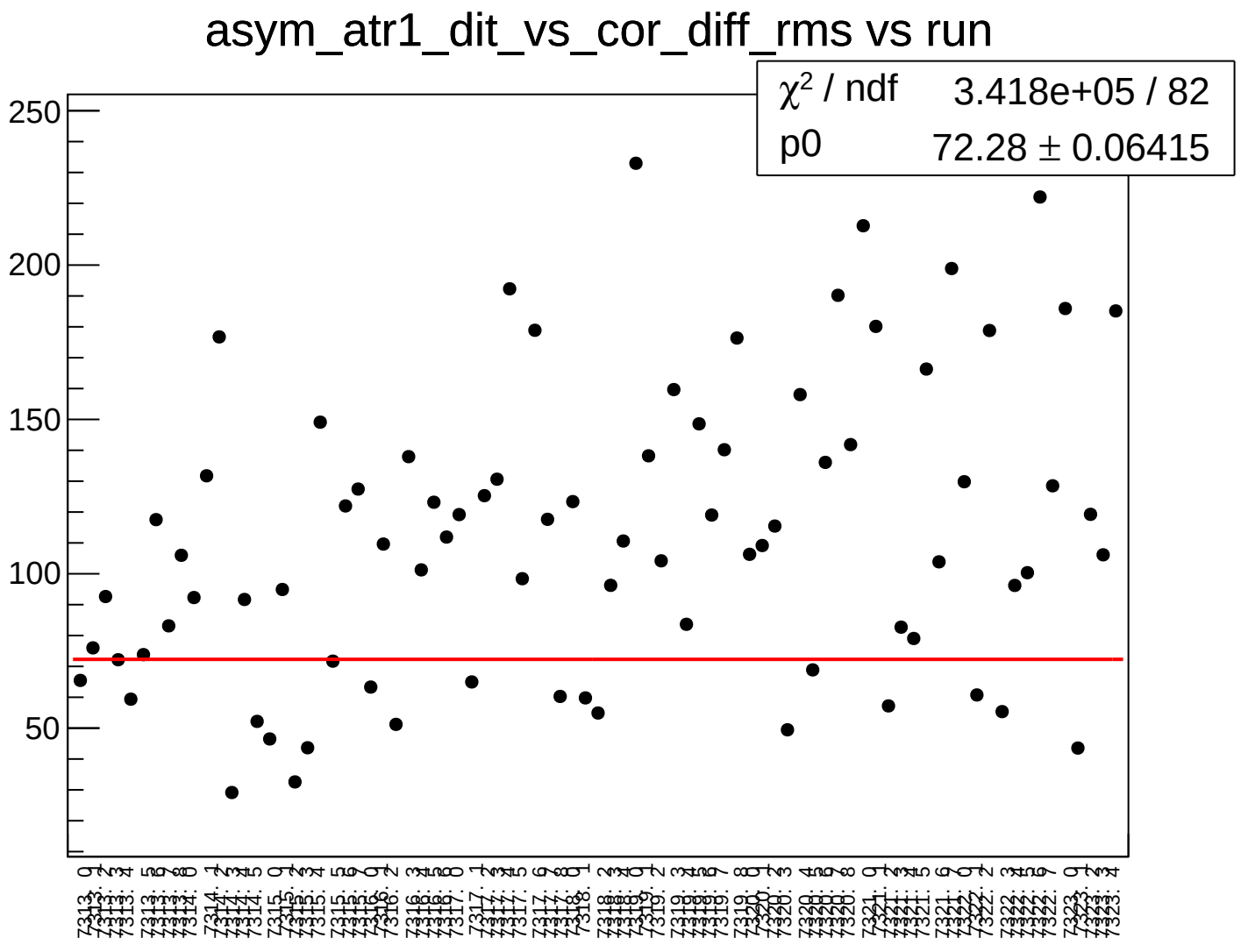

asym_atr1_rms vs run
χ^2 / ndf 201.7 / 82
p0 2879 ± 2.268
3000
2950
2900
2850
2800

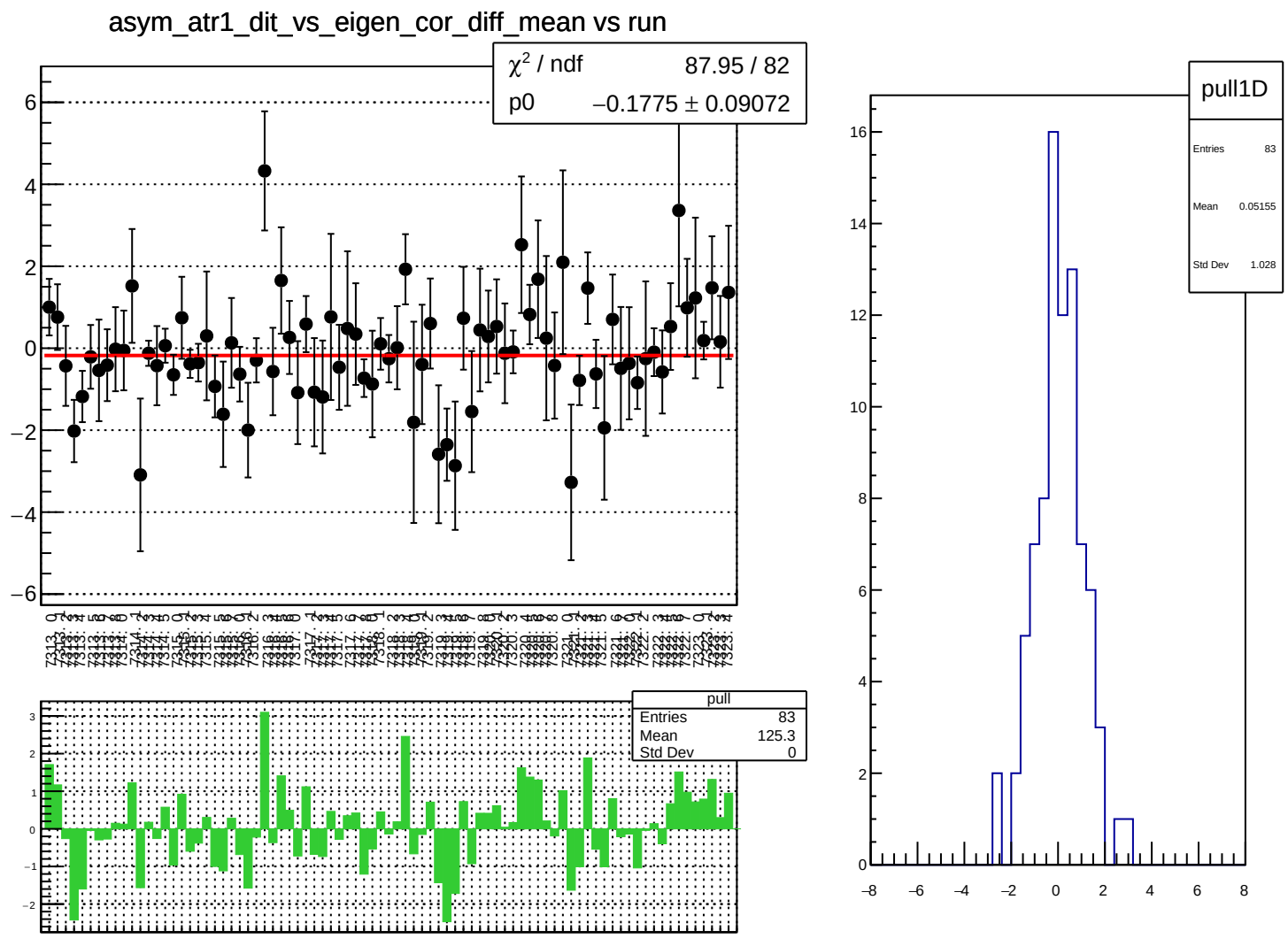

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 75.09 / 82
p0 4.272e−14 ± 4.017e−14
pull
Entries 83
Mean 35.96
Std Dev 35.73

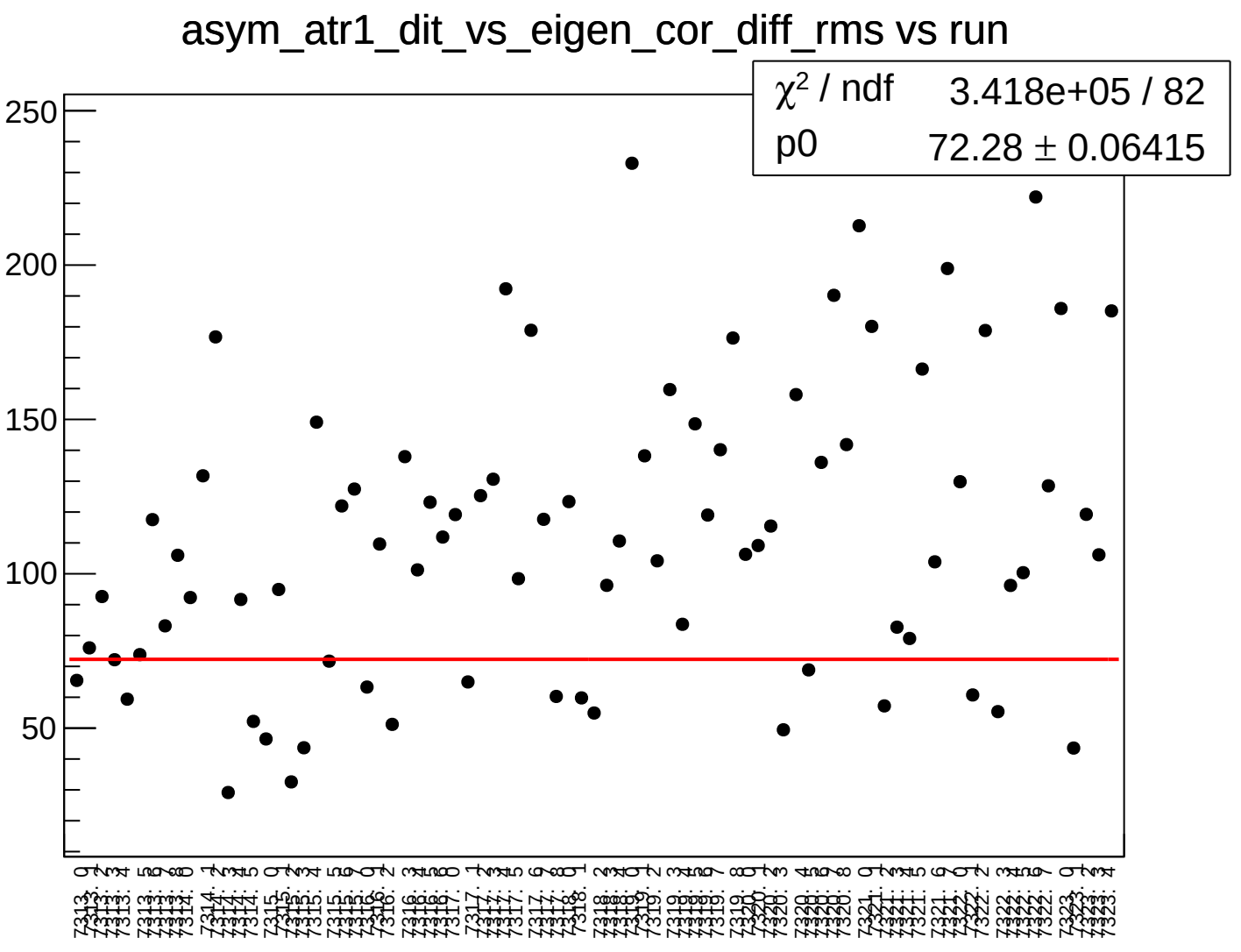

pull1D
Entries 83
Mean 0.03137
Std Dev 0.9506

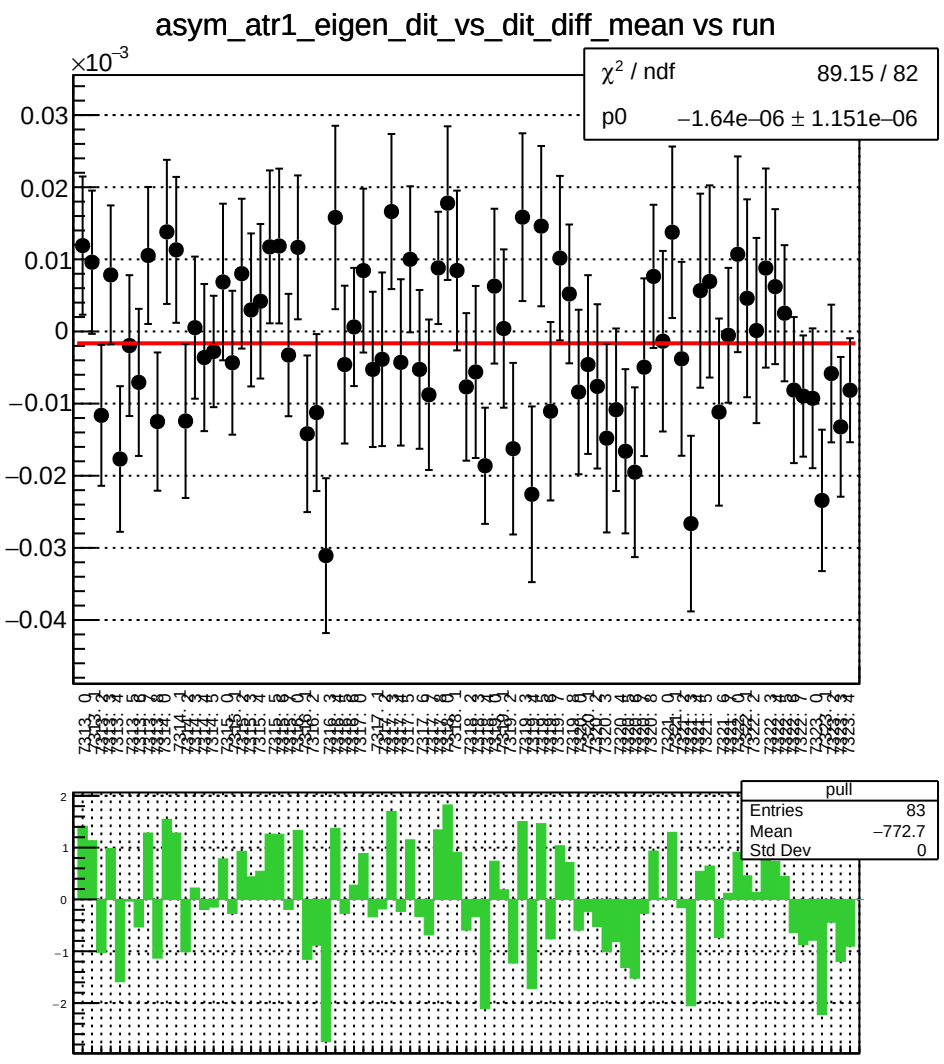

asym_atr1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.217e+06 / 82
p0 1.784e−11 ± 2.841e−14
2.5
2
1.5
1
0.5
0

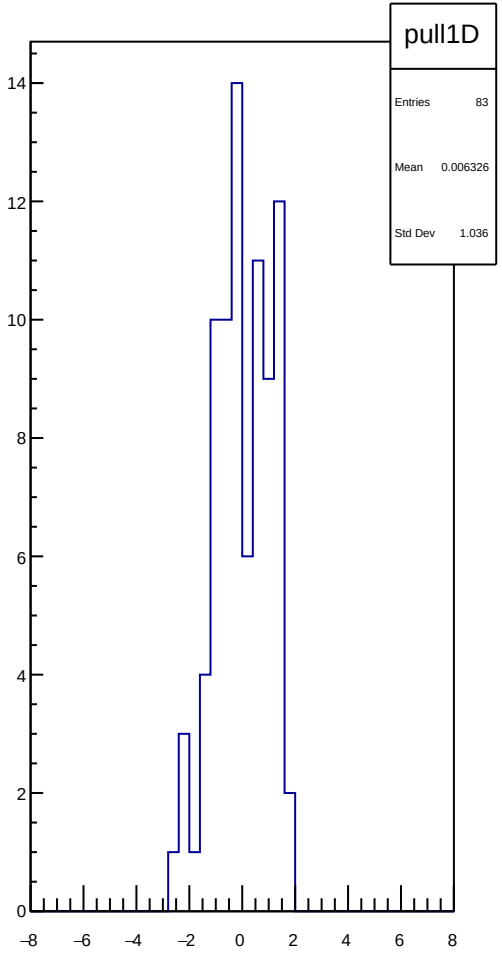

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 87.95 / 82
p0 −0.1775 ± 0.09072
pull
Entries 83
Mean 125.3
Std Dev 0
pull1D
Entries 83
Mean 0.05155
Std Dev 1.028

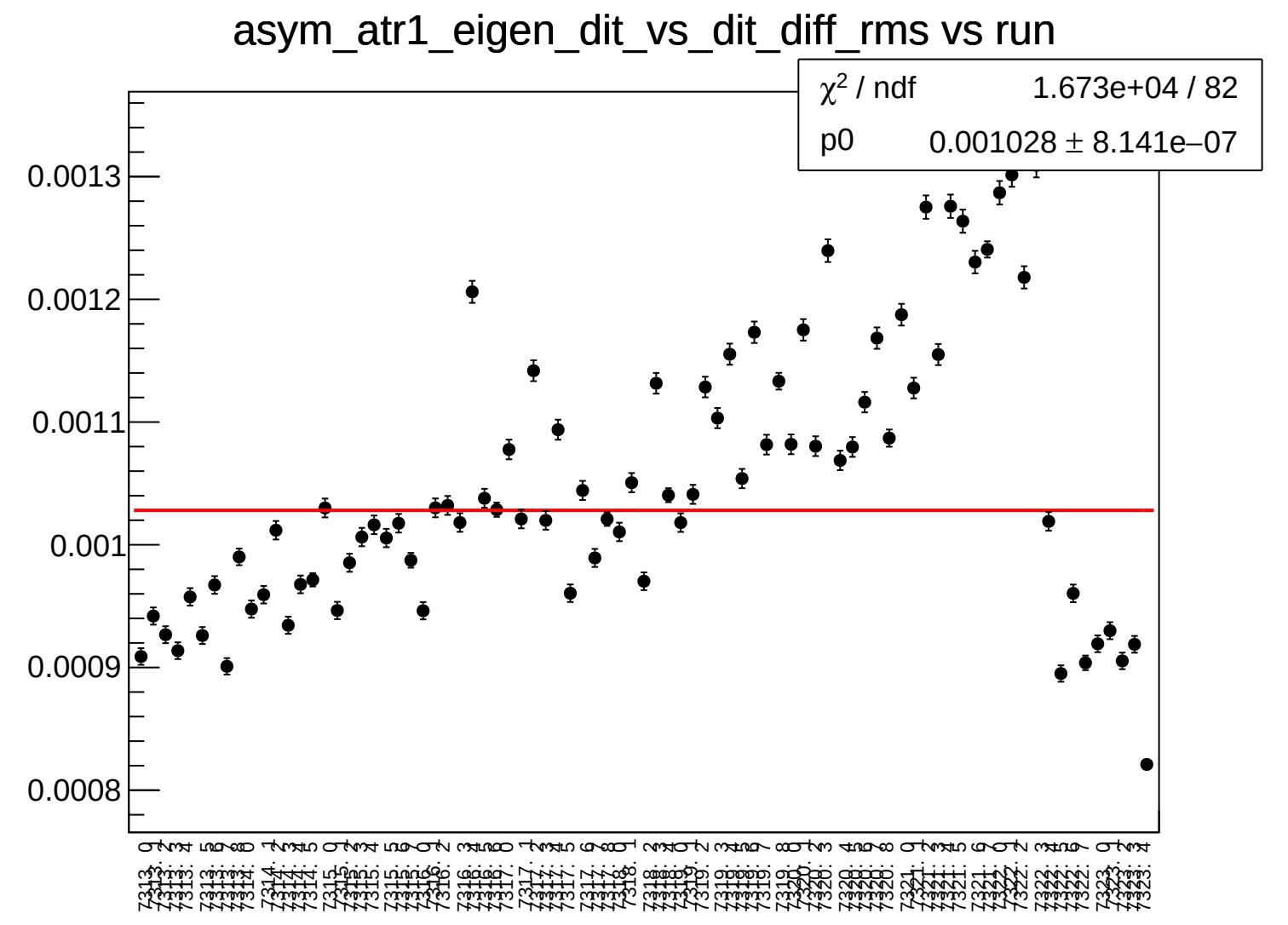

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.418e+05 / 82
p0 72.28 ± 0.06415
250
200
150
100
50

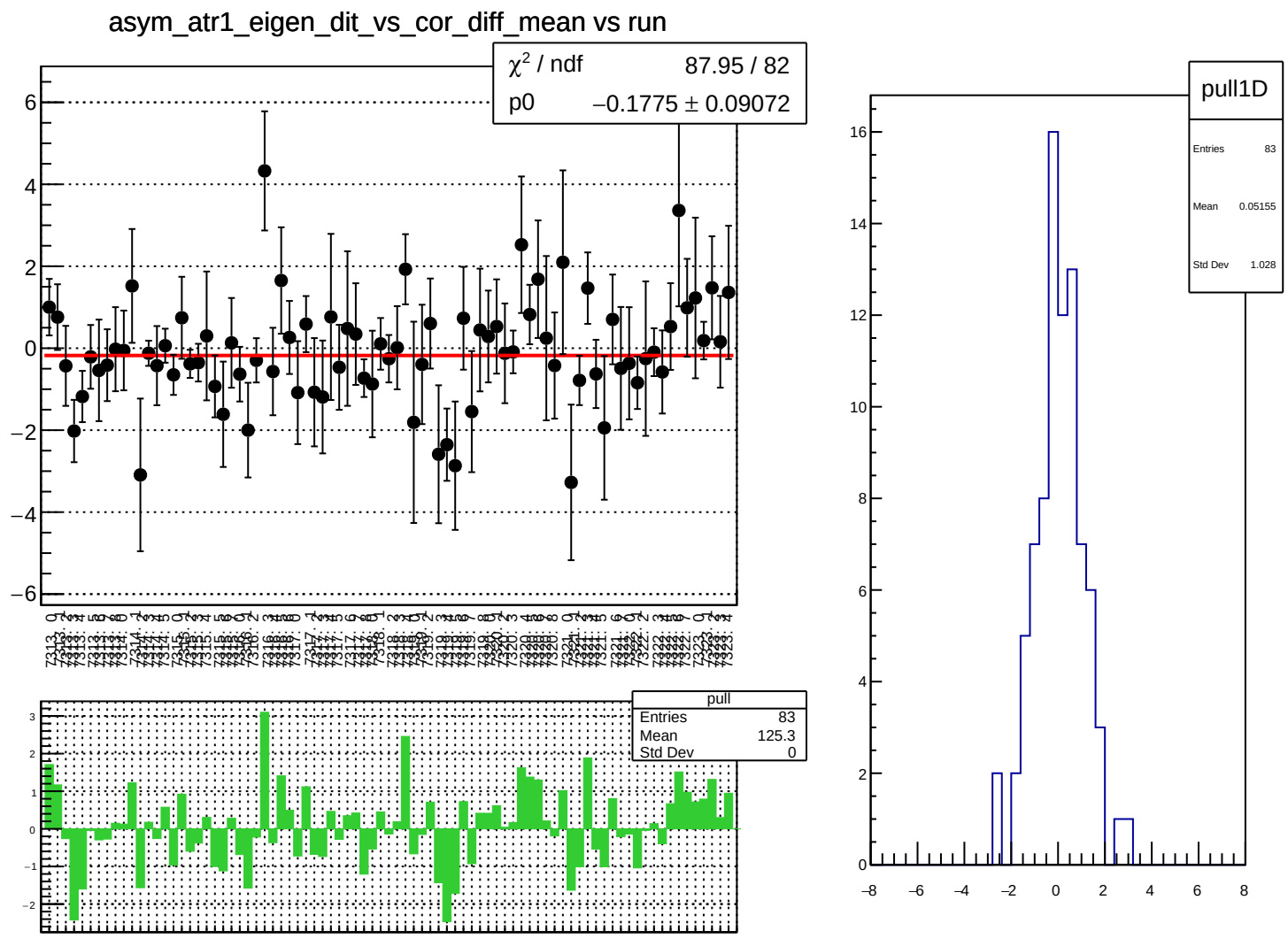

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.95 / 82
p0 −0.1775 ± 0.09072
pull
Entries 83
Mean 125.3
Std Dev 0
pull1D
Entries 83
Mean 0.05155
Std Dev 1.028

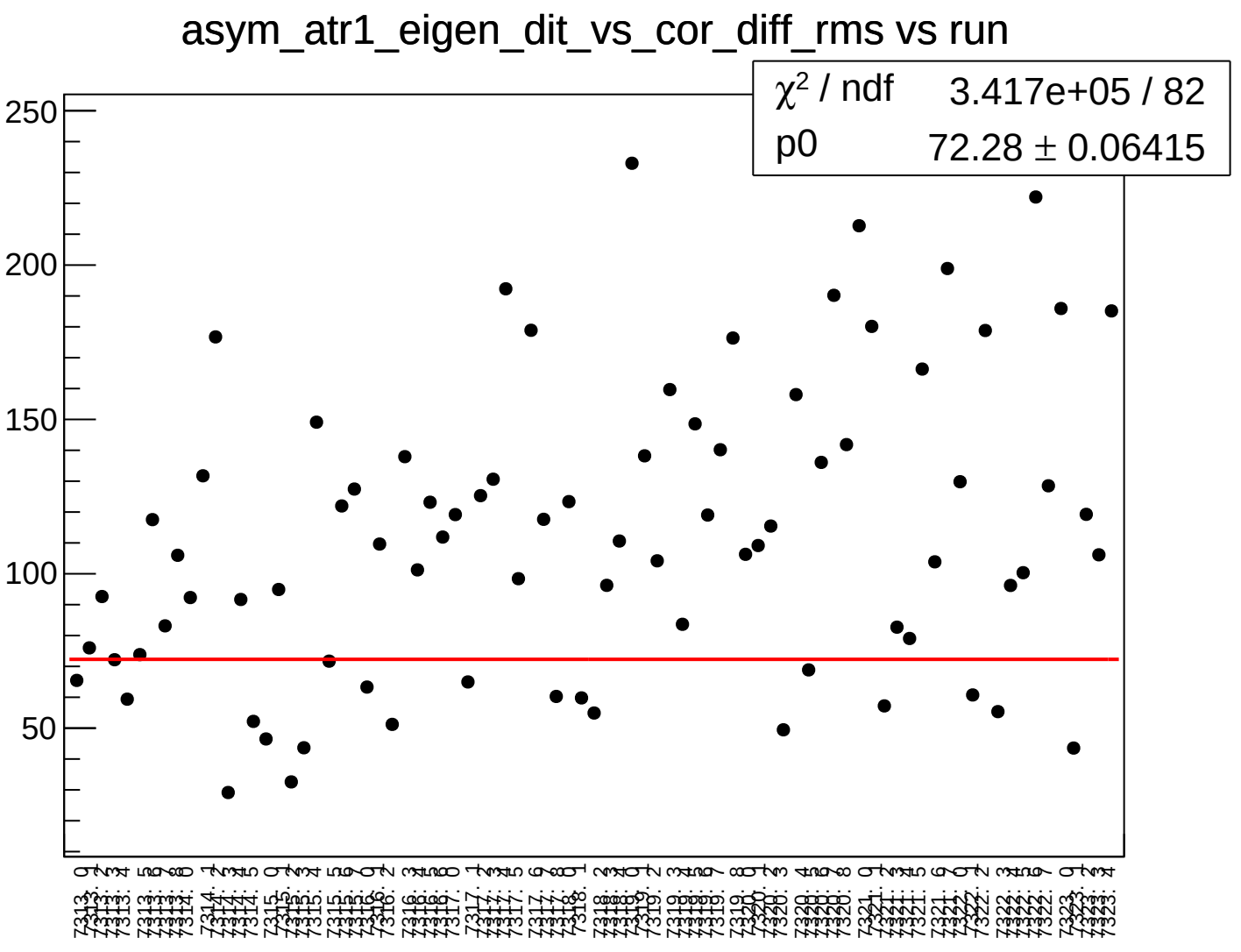

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.418e+05 / 82
p0 72.28 ± 0.06415
250
200
150
100
50

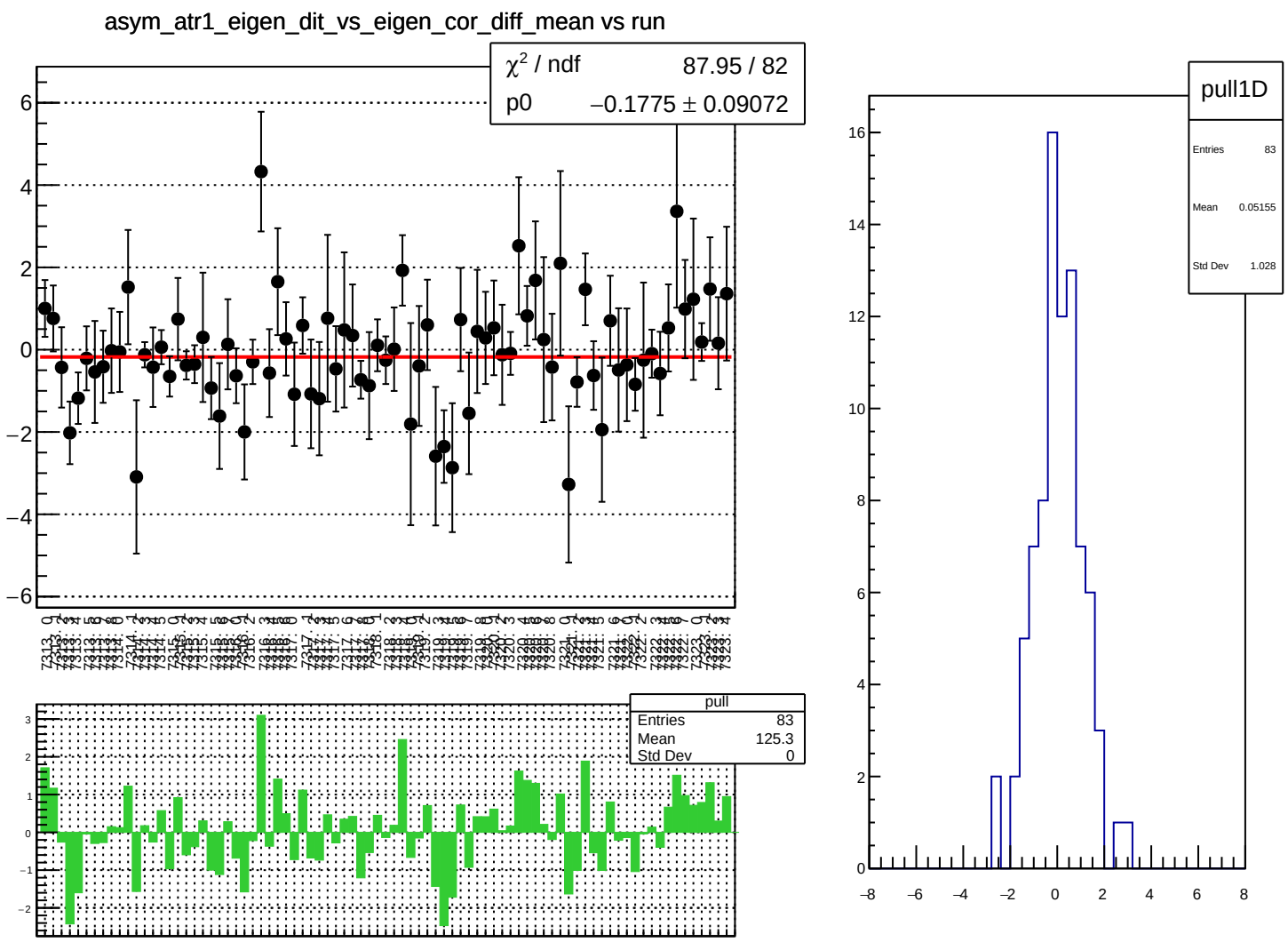

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.15 / 82
p0 −1.64e−06 ± 1.151e−06
pull
Entries 83
Mean −772.7
Std Dev 0

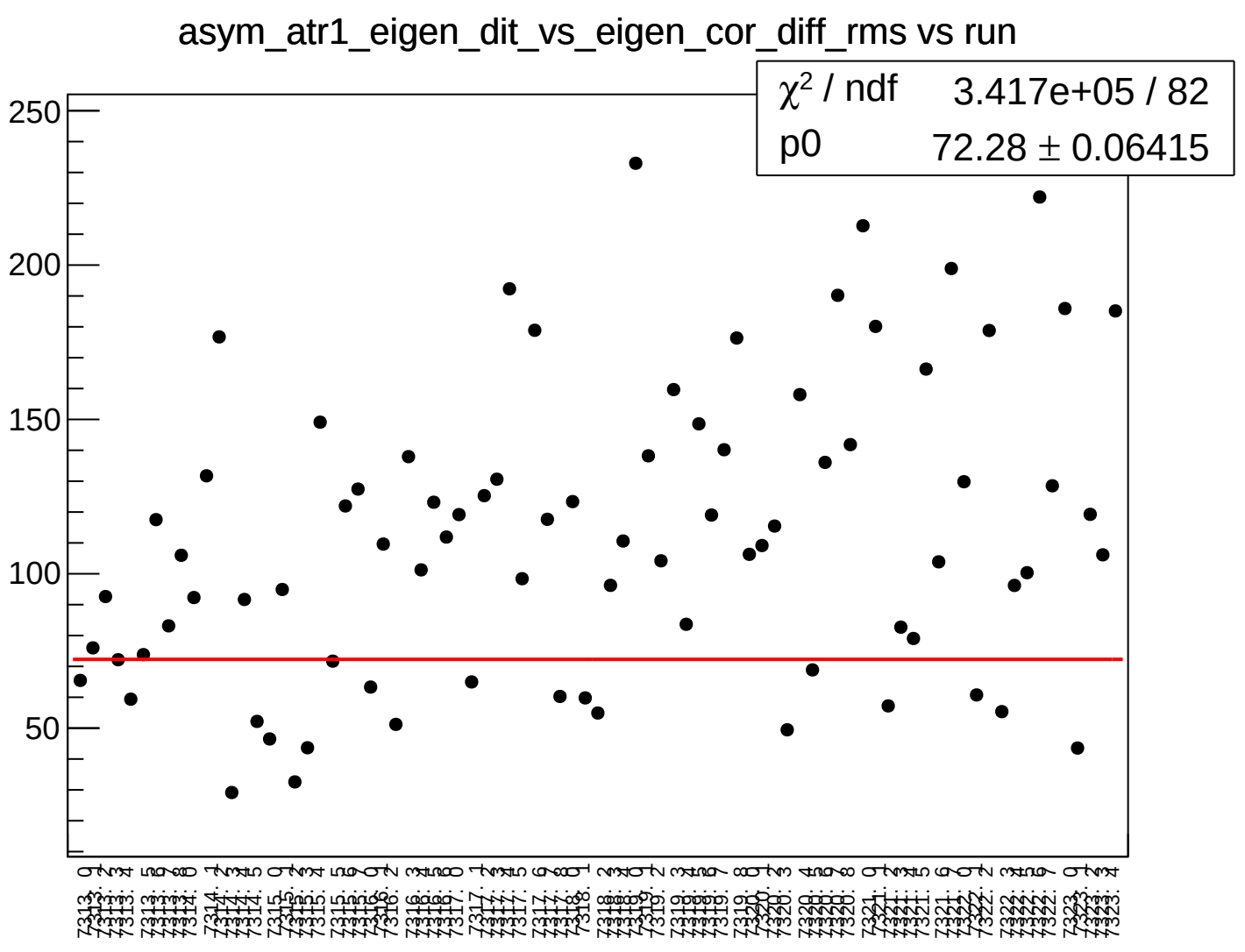

pull1D
Entries 83
Mean 0.006326
Std Dev 1.036

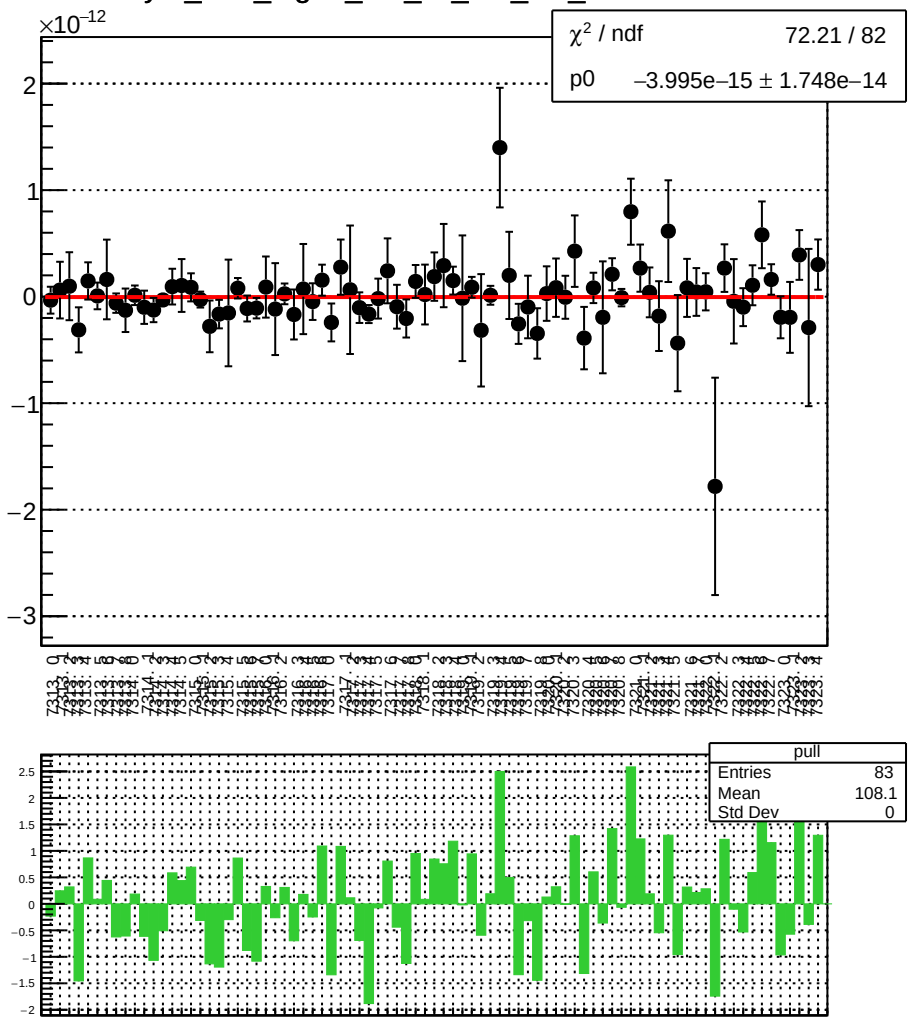

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.673e+04 / 82
p0 0.001028 ± 8.141e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

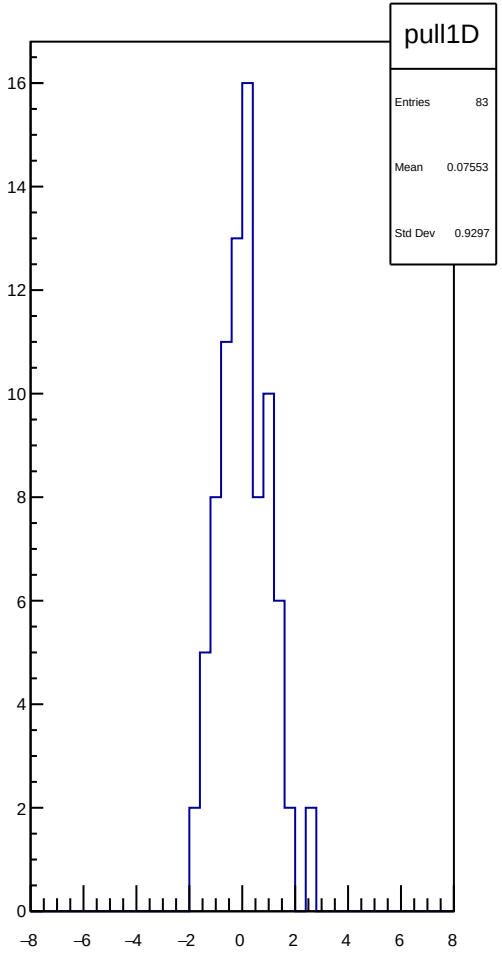

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.95 / 82
p0 −0.1775 ± 0.09072
pull
Entries 83
Mean 125.3
Std Dev 0
pull1D
Entries 83
Mean 0.05155
Std Dev 1.028

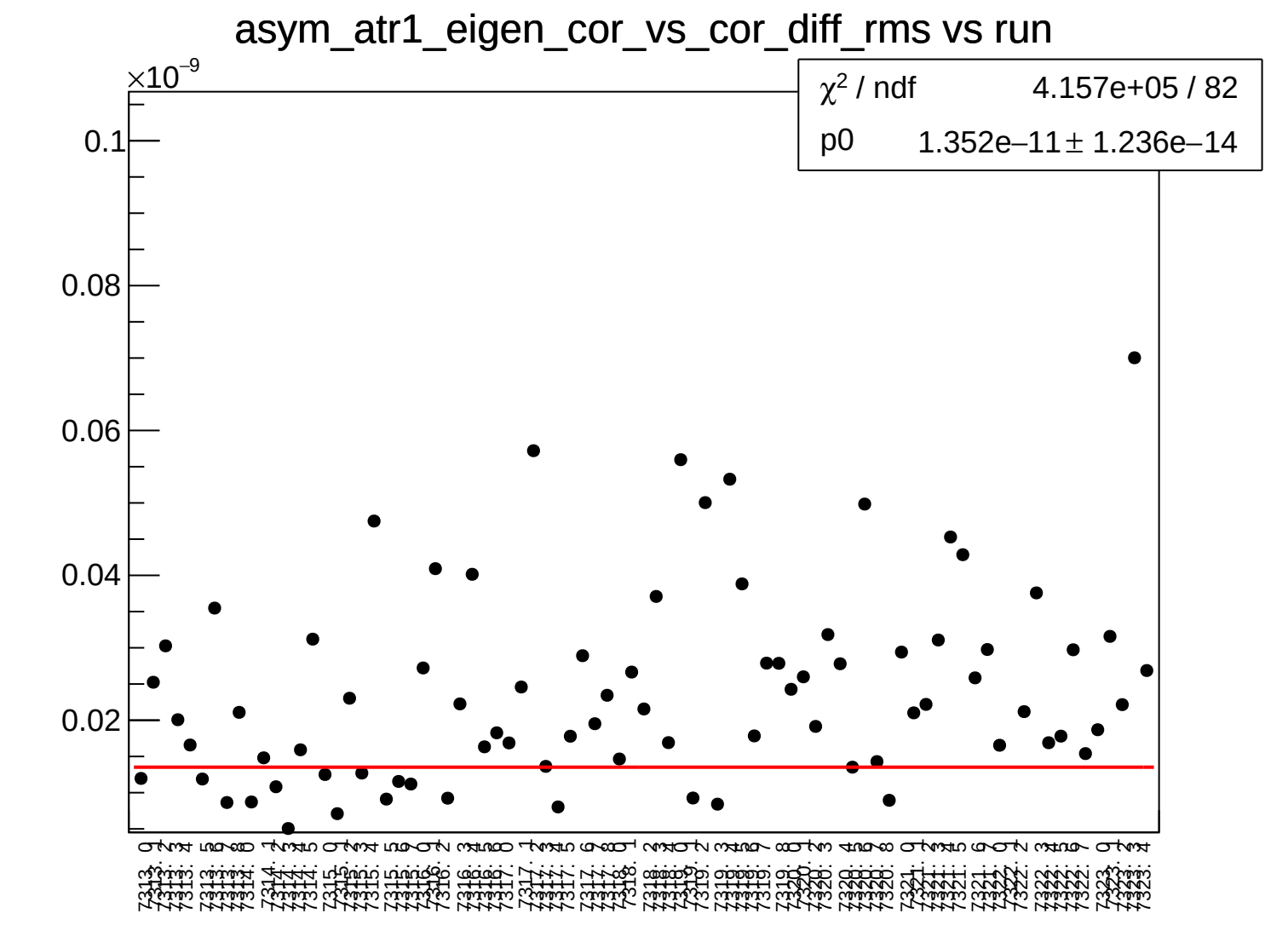

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 82
p0 72.28 ± 0.06415
250
200
150
100
50

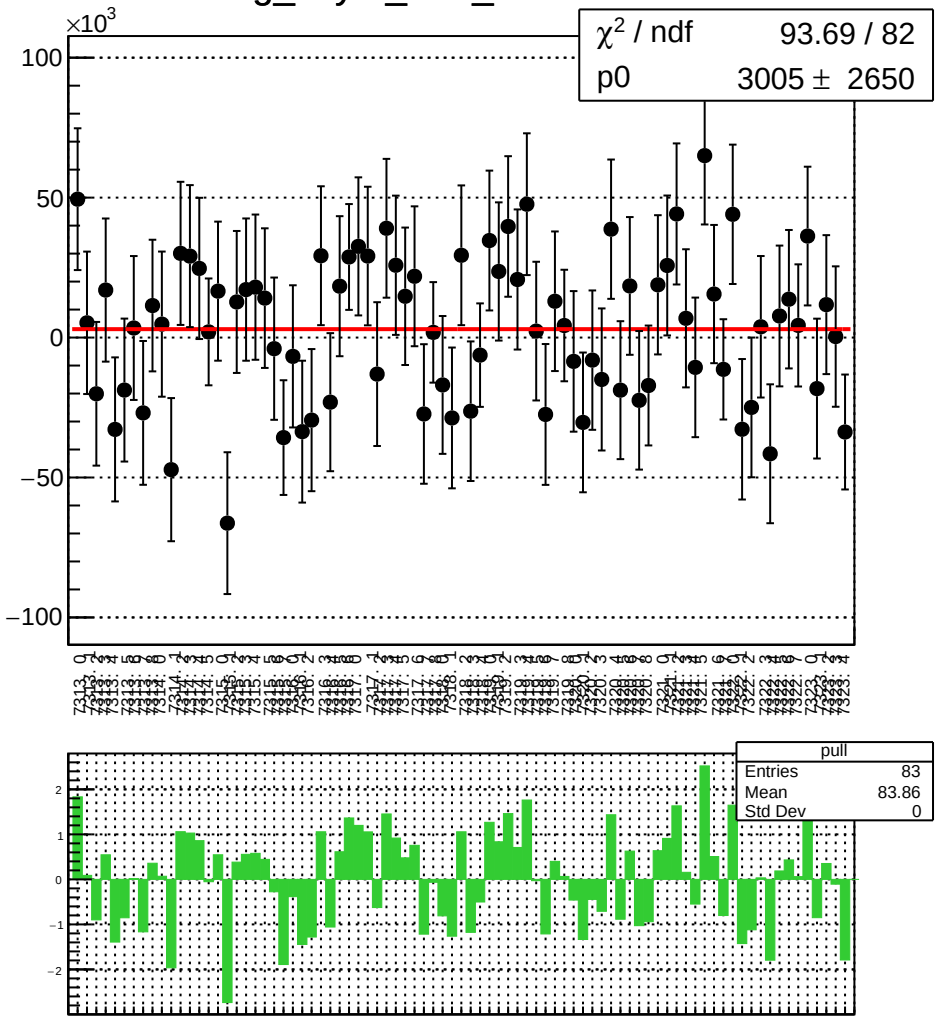

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.95 / 82
p0 −0.1775 ± 0.09072
pull
Entries 83
Mean 125.3
Std Dev 0
pull1D
Entries 83
Mean 0.05155
Std Dev 1.028

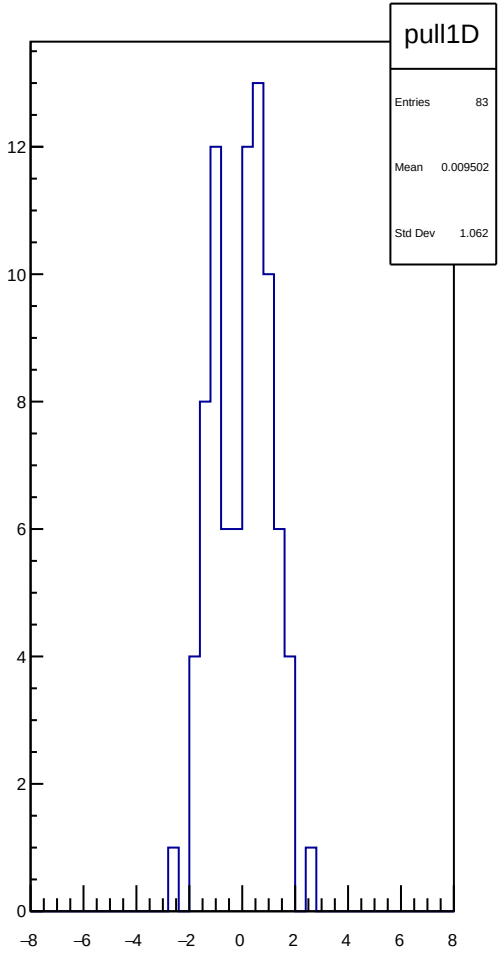

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 82
p0 72.28 ± 0.06415
250
200
150
100
50

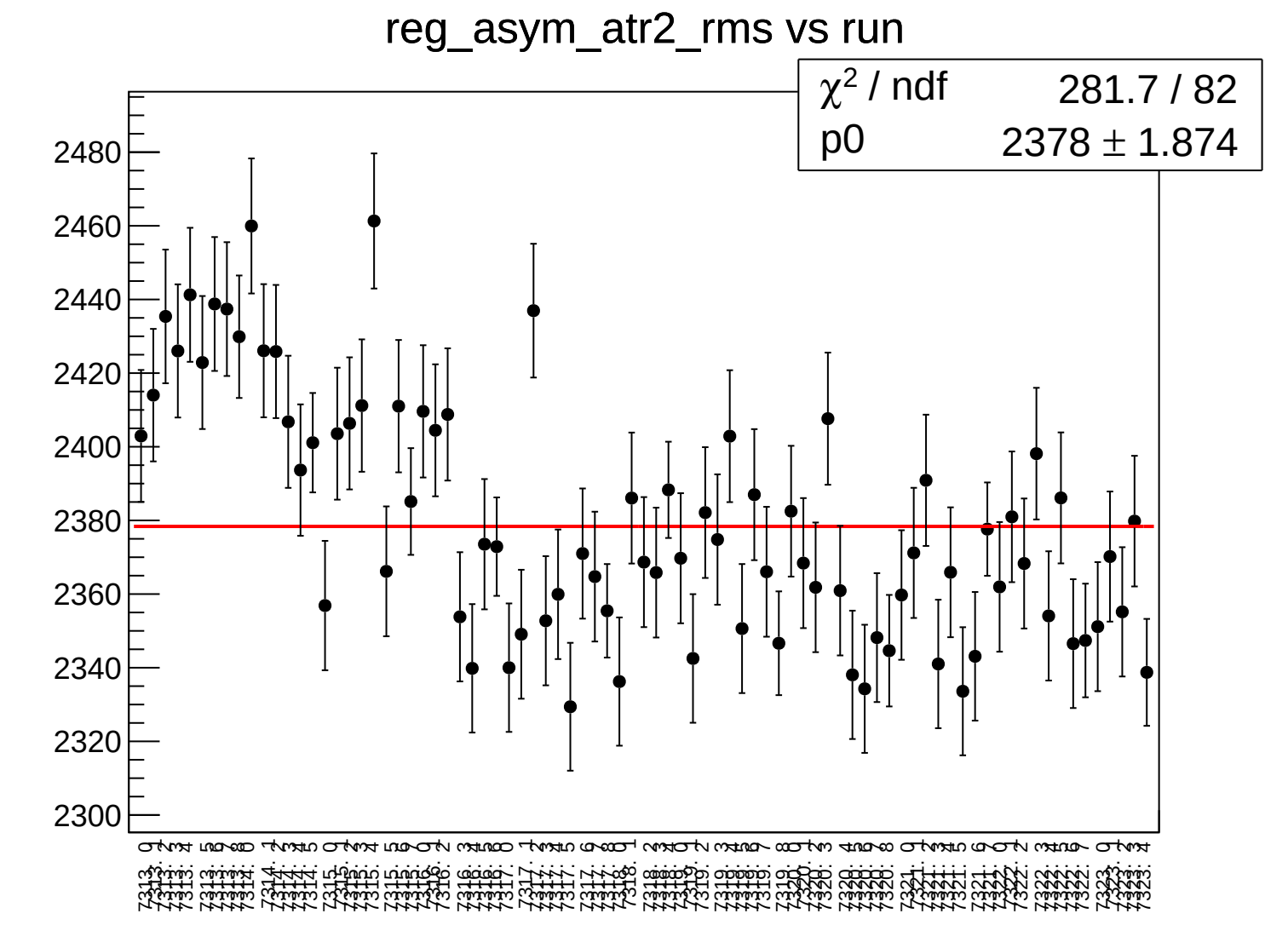

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.21 / 82
p0 −3.995e−15 ± 1.748e−14
pull
Entries 83
Mean 108.1
Std Dev 0

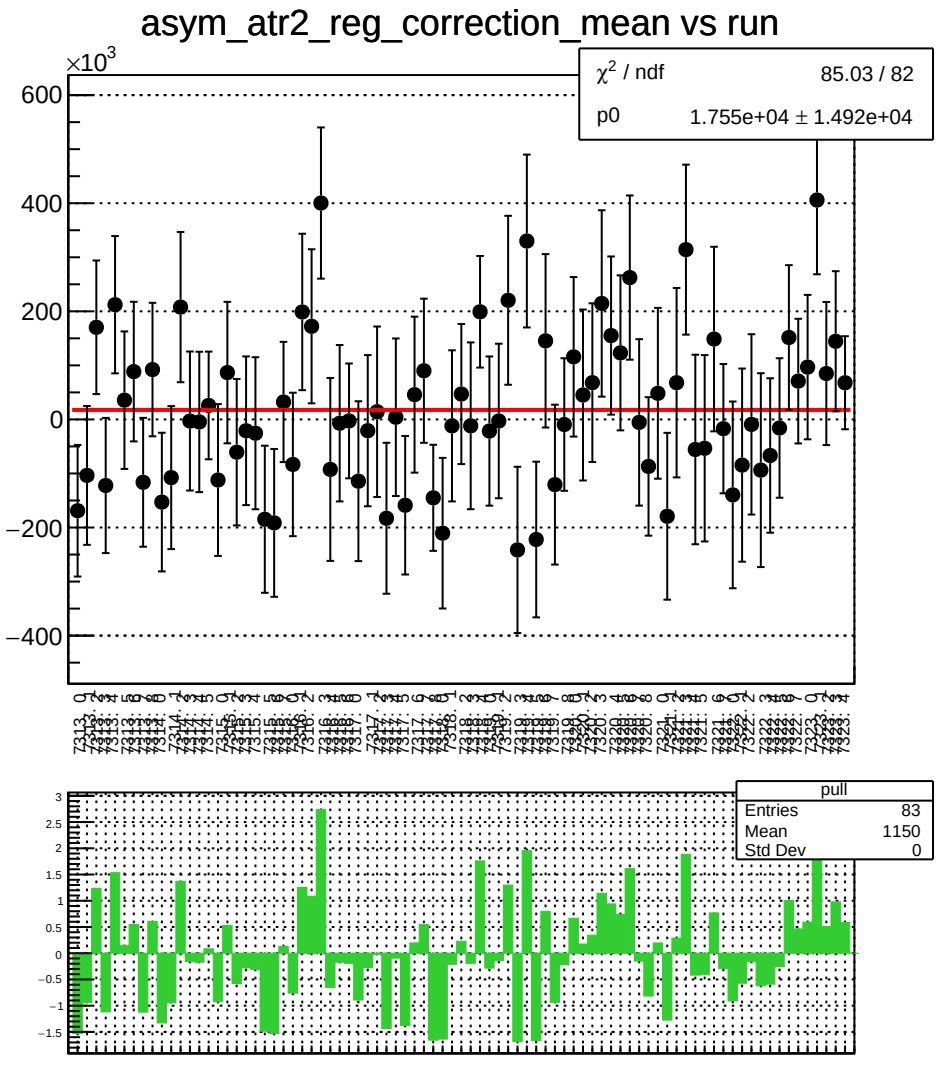

pull1D
Entries 83
Mean 0.07553
Std Dev 0.9297

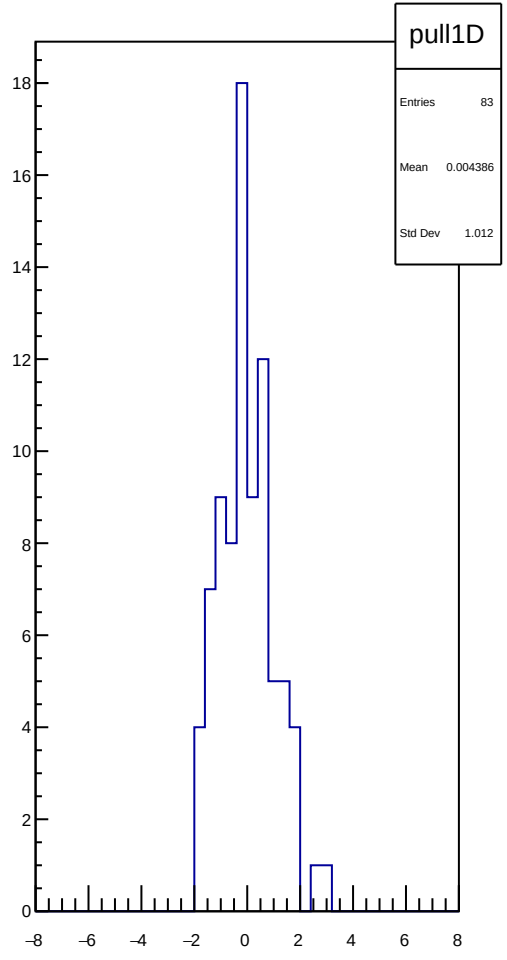

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.157e+05 / 82
p0 1.352e−11 ± 1.236e−14
0.1
0.08
0.06
0.04
0.02

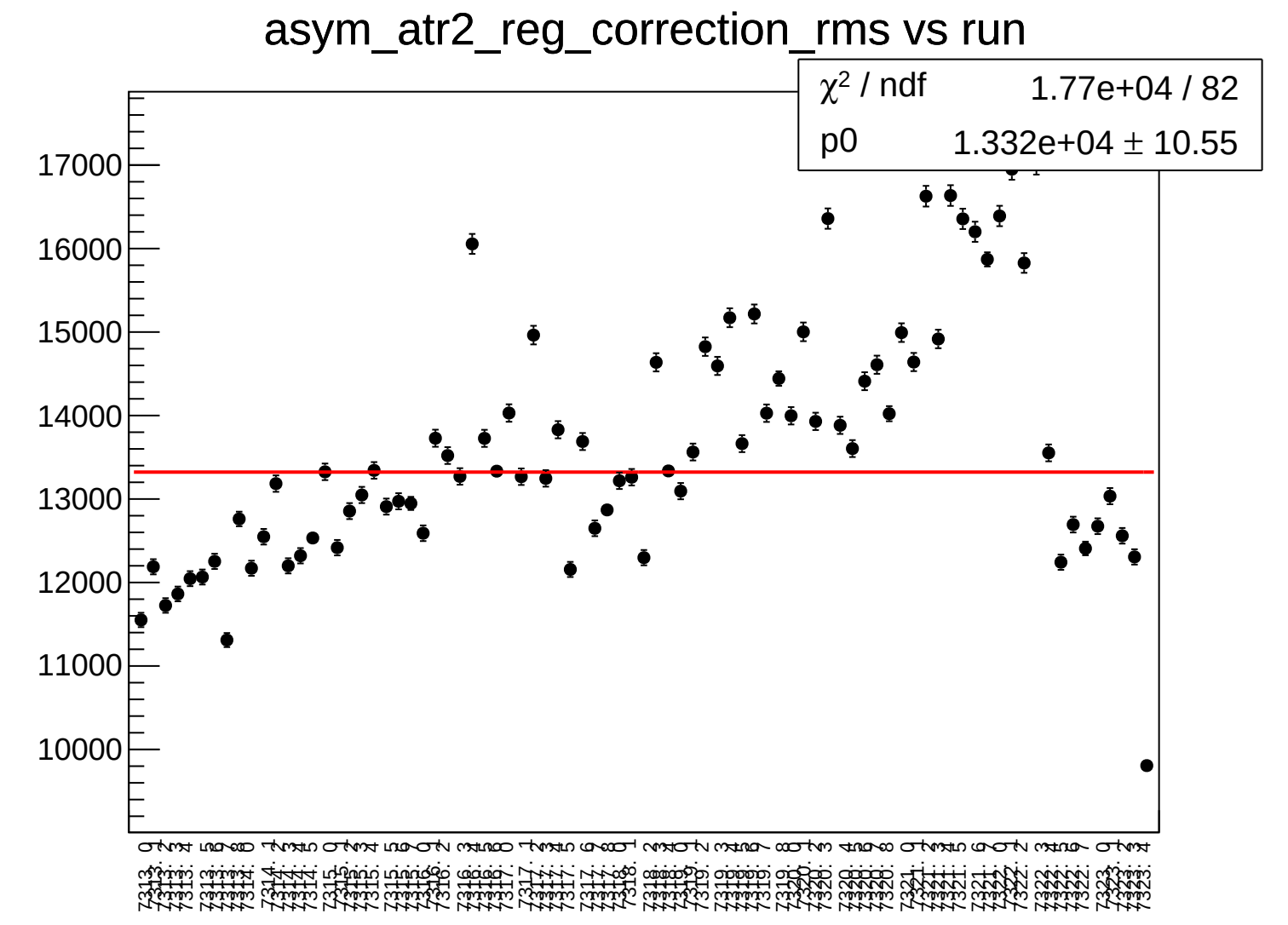

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 93.69 / 82
p0 3005 ± 2650
100
50
0
−50
−100
pull
Entries 83
Mean 83.86
Std Dev 0
2
1
0
−1
−2

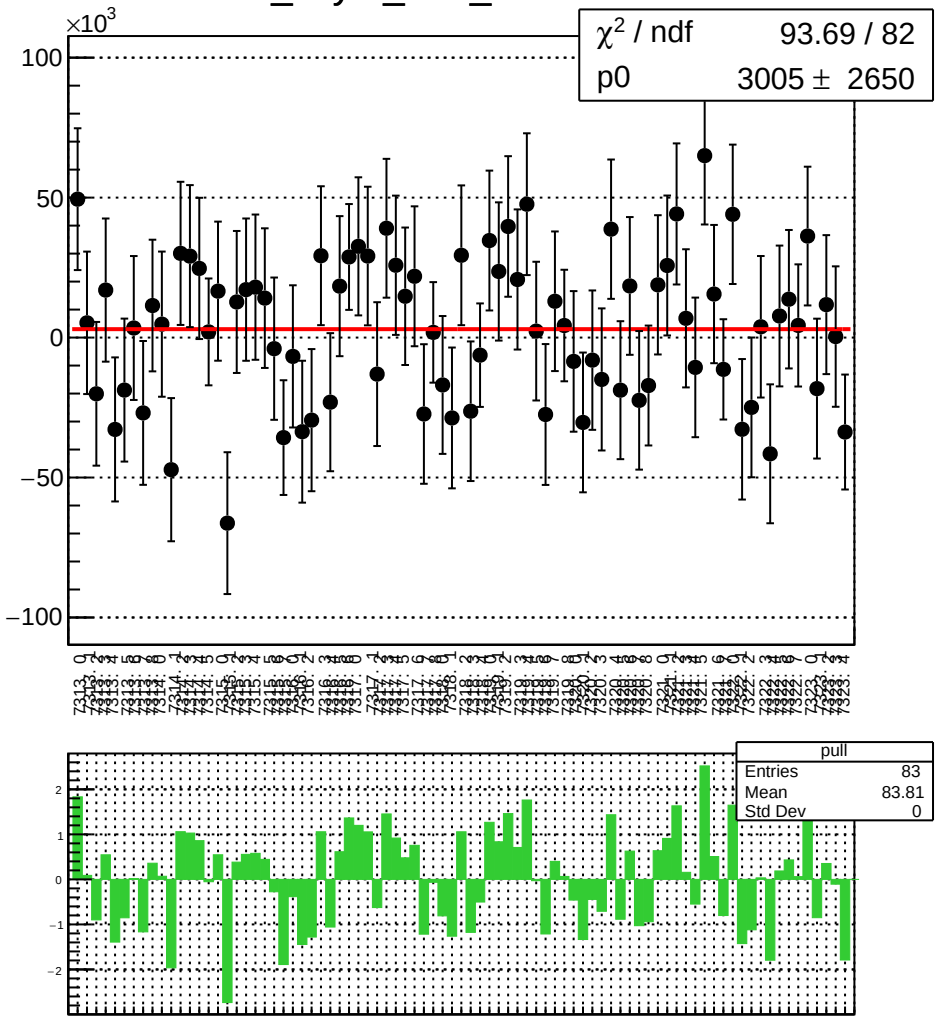

pull1D
Entries 83
Mean 0.009502
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

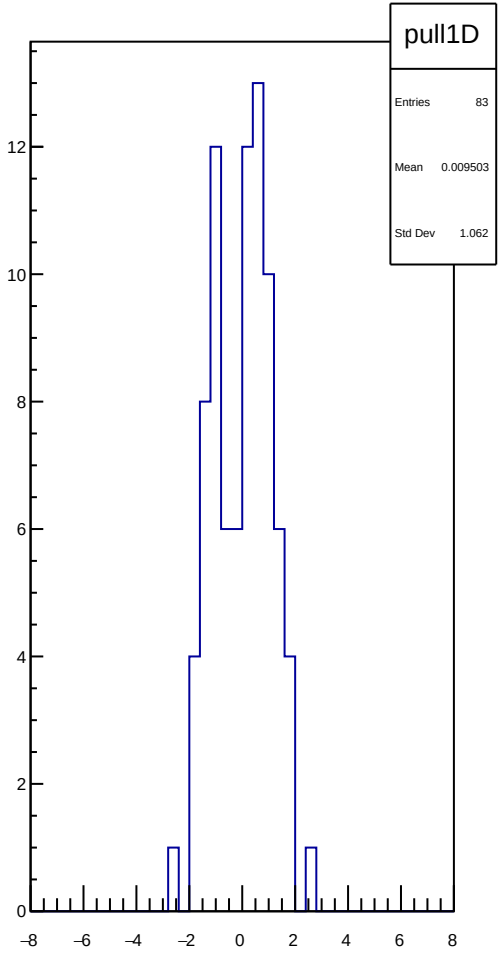

reg_asym_atr2_rms vs run
χ² / ndf 281.7 / 82
p0 2378 ± 1.874
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

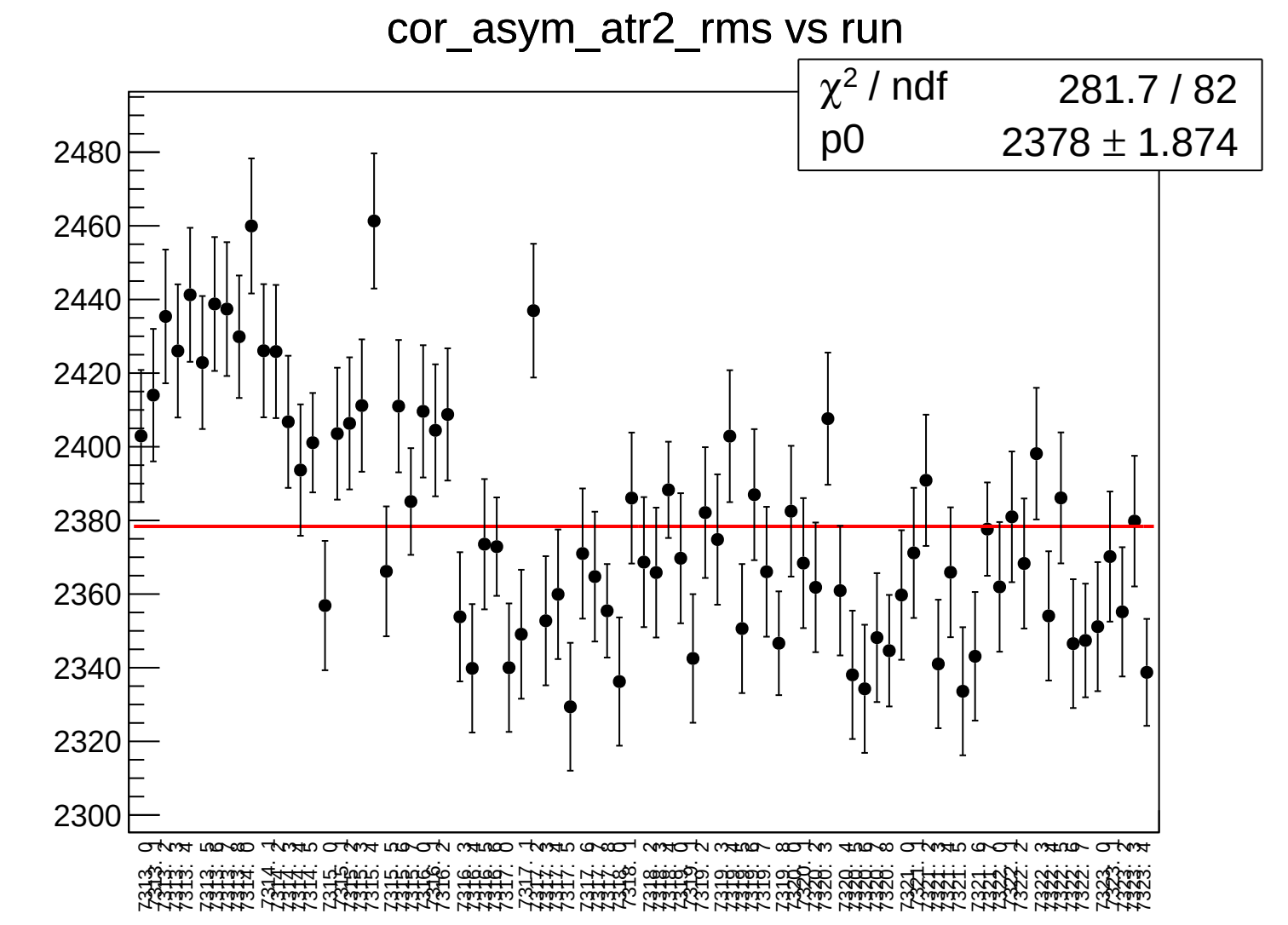

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 85.03 / 82
p0 1.755e+04 ± 1.492e+04
pull
Entries 83
Mean 1150
Std Dev 0

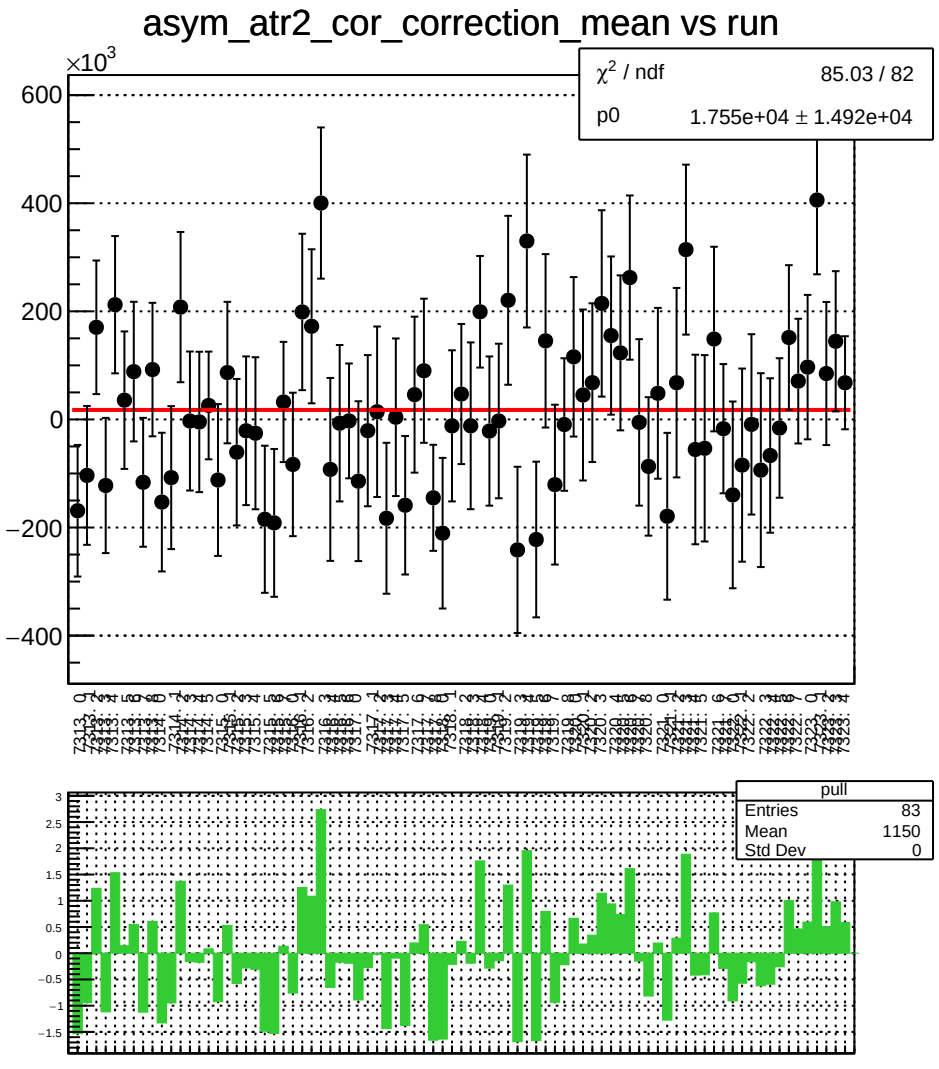

pull1D
Entries 83
Mean 0.004386
Std Dev 1.012

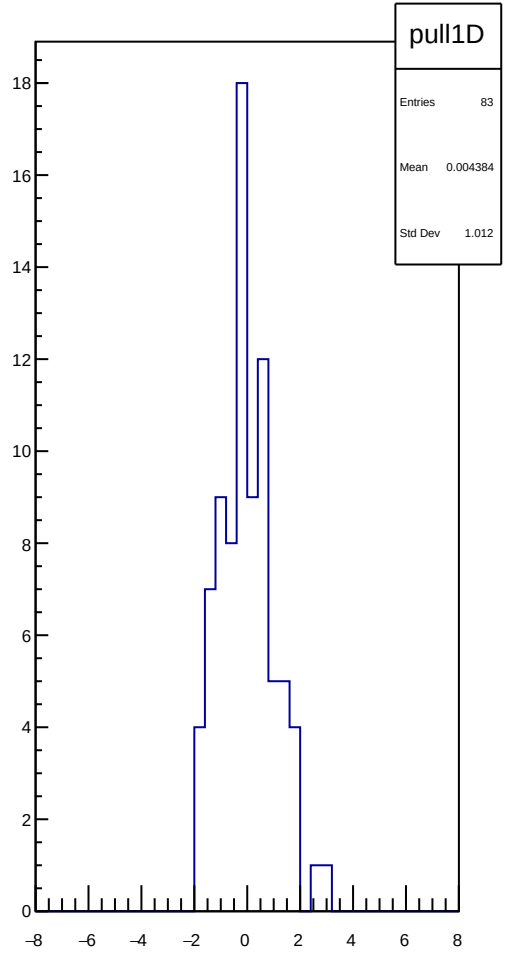

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.77e+04 / 82
p0 1.332e+04 ± 10.55
17000
16000
15000
14000
13000
12000
11000
10000

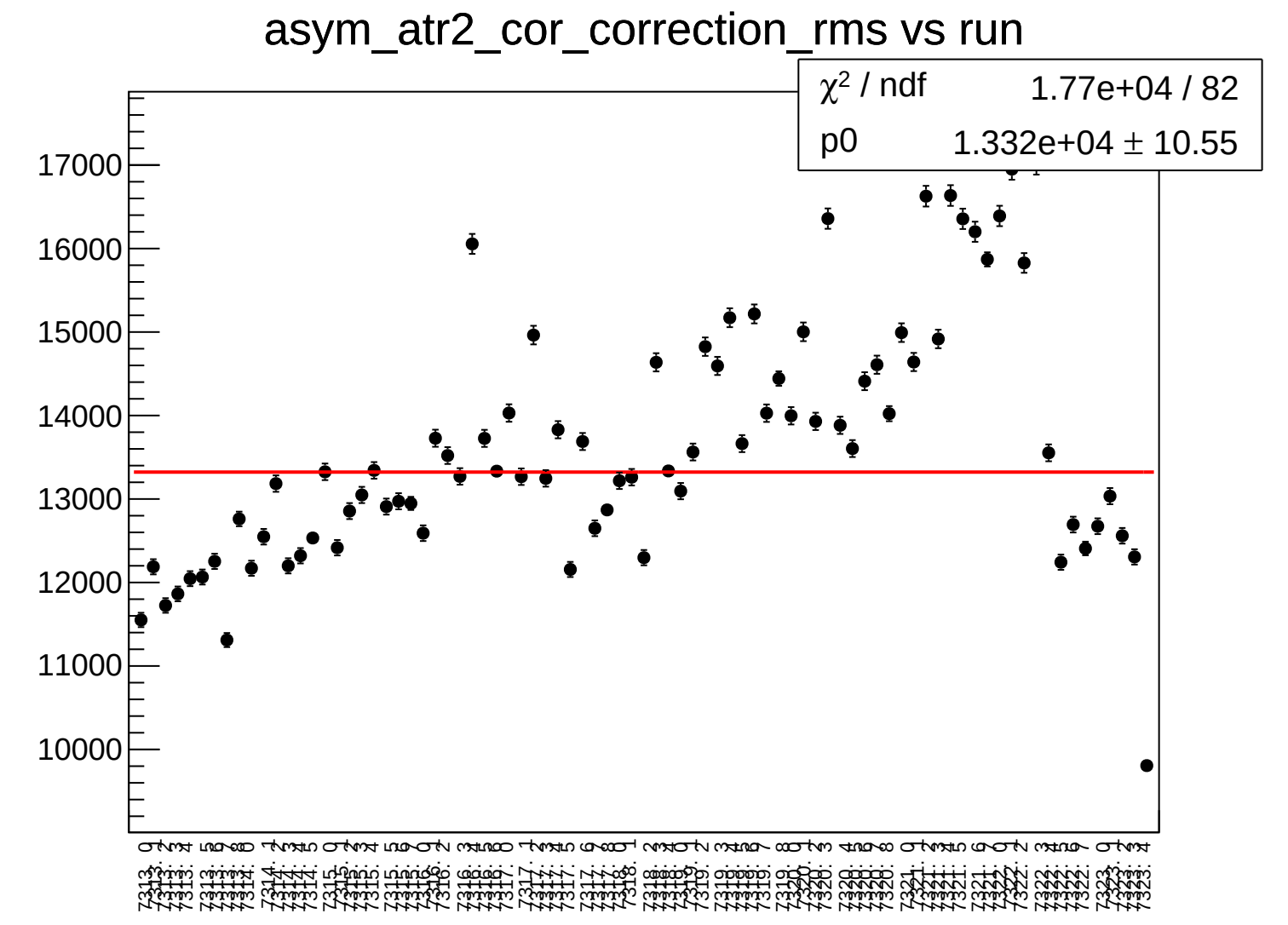

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 93.69 / 82
p0 3005 ± 2650
100
50
0
−50
−100
pull
Entries 83
Mean 83.81
Std Dev 0
2
1
0
−1
−2

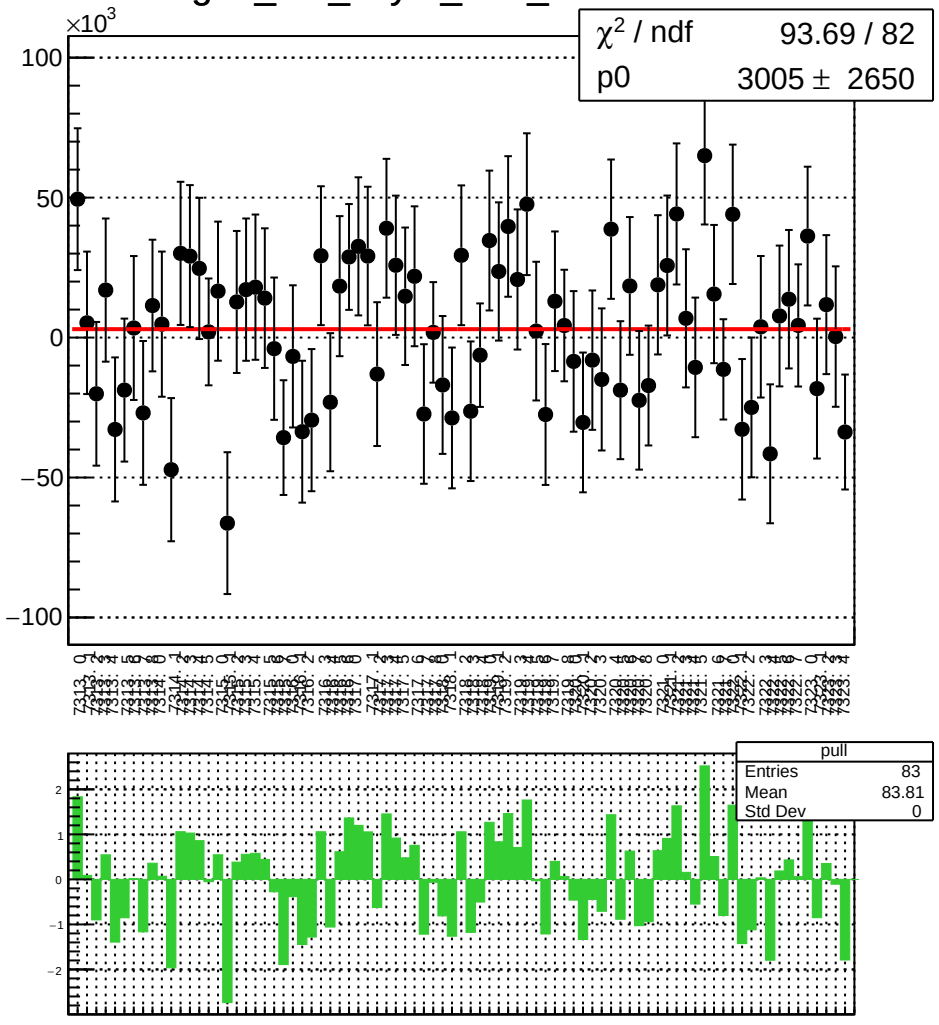

pull1D
Entries 83
Mean 0.009503
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

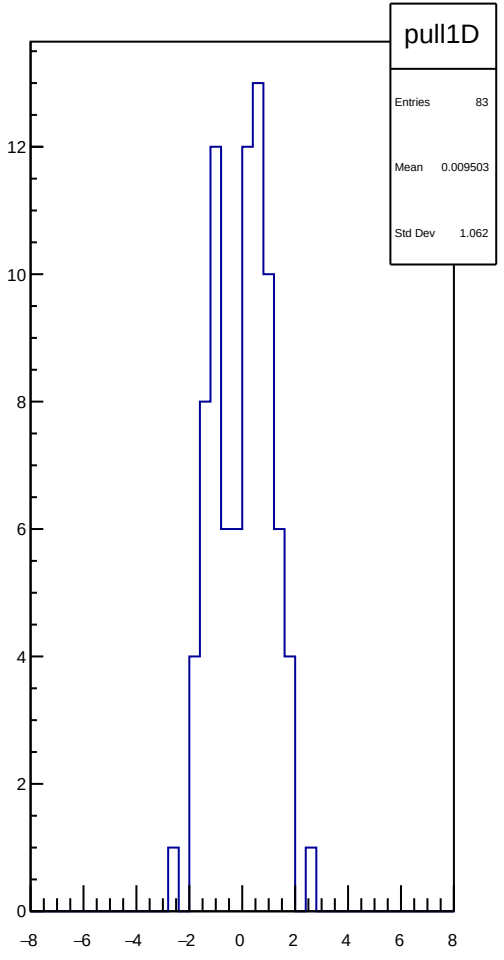

cor_asym_atr2_rms vs run
χ² / ndf 281.7 / 82
p0 2378 ± 1.874
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

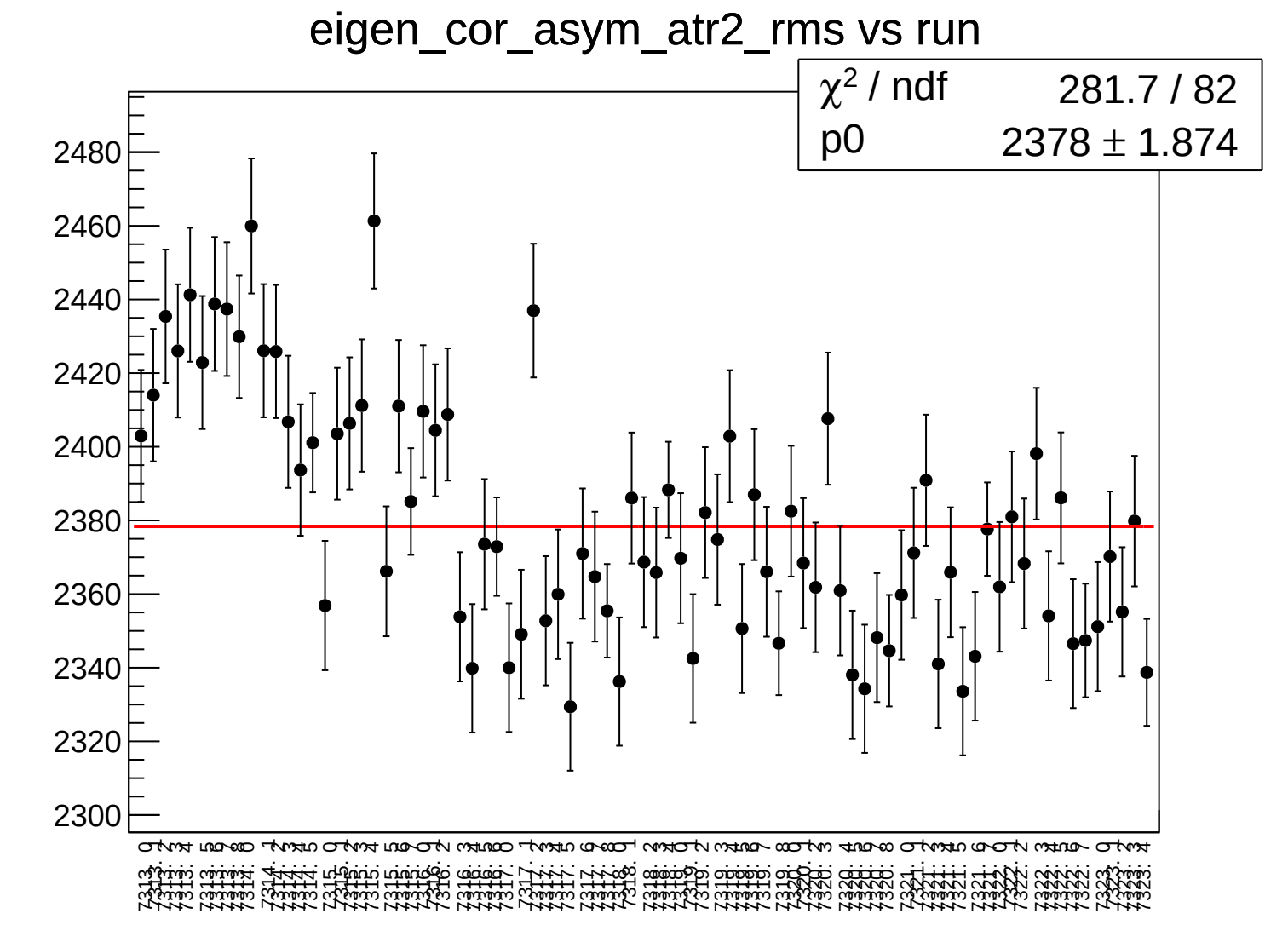

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 85.03 / 82
p0 1.755e+04 ± 1.492e+04
pull
Entries 83
Mean 1150
Std Dev 0

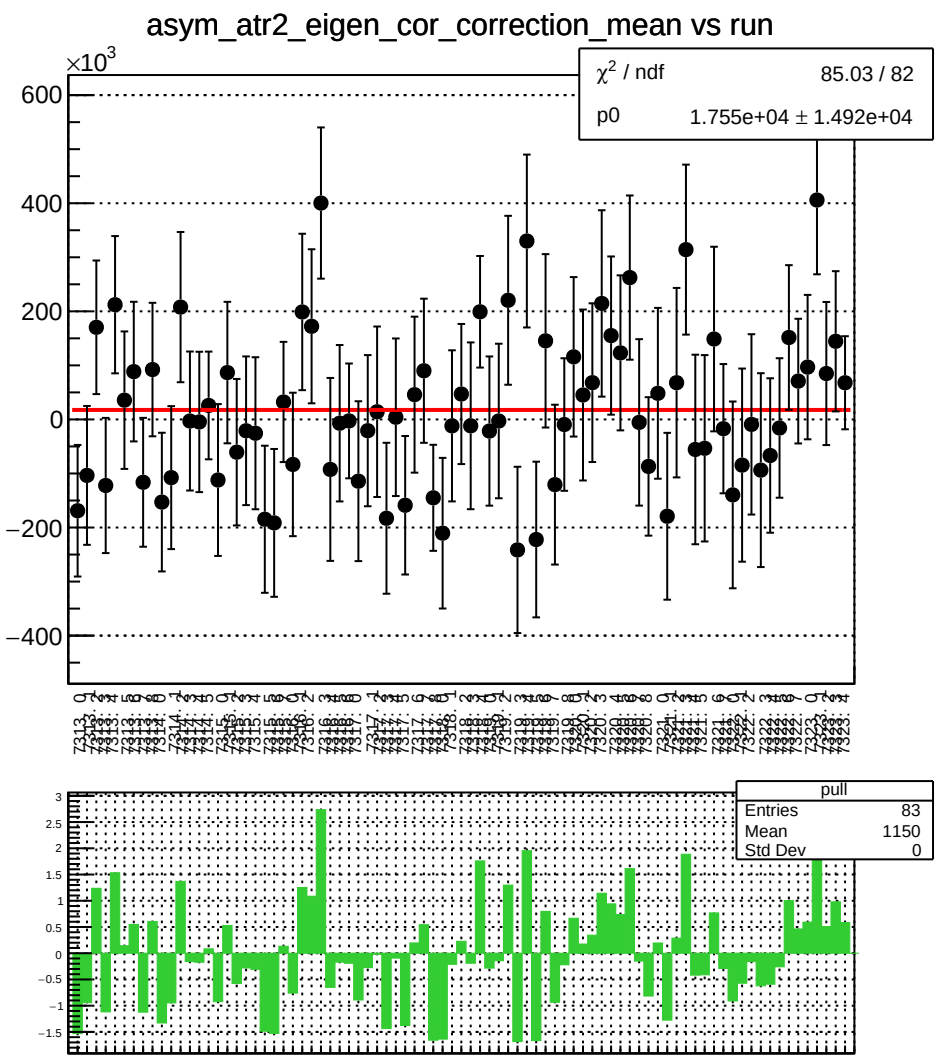

pull1D
Entries 83
Mean 0.004384
Std Dev 1.012

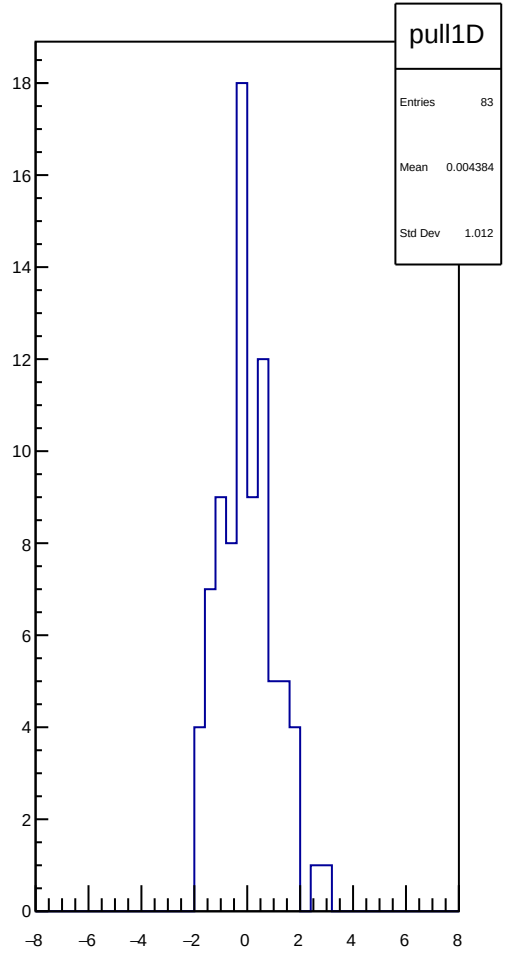

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.77e+04 / 82
p0 1.332e+04 ± 10.55
17000
16000
15000
14000
13000
12000
11000
10000

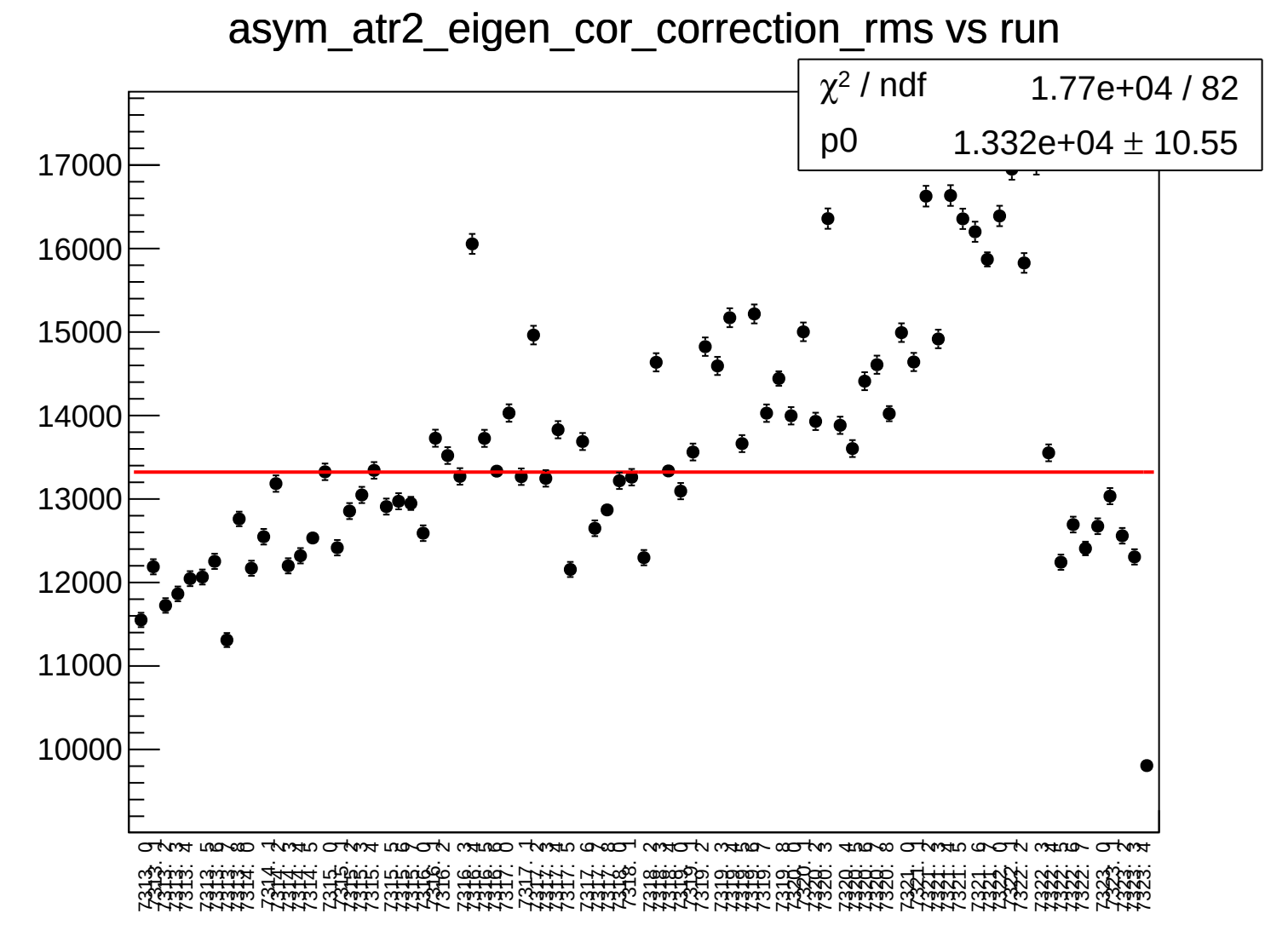

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 93.69 / 82
p0 3005 ± 2650
100
50
0
−50
−100
pull
Entries 83
Mean 83.81
Std Dev 0
2
1
0
−1
−2

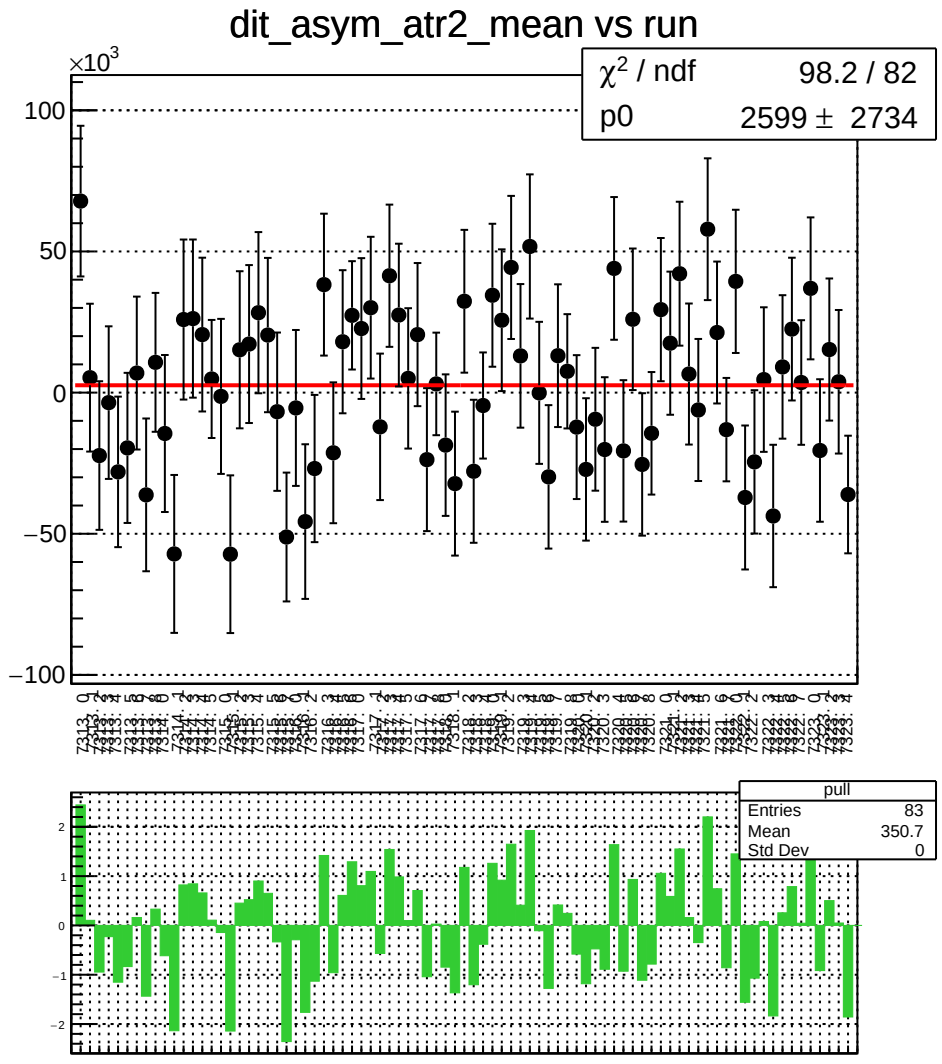

pull1D
Entries 83
Mean 0.009503
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

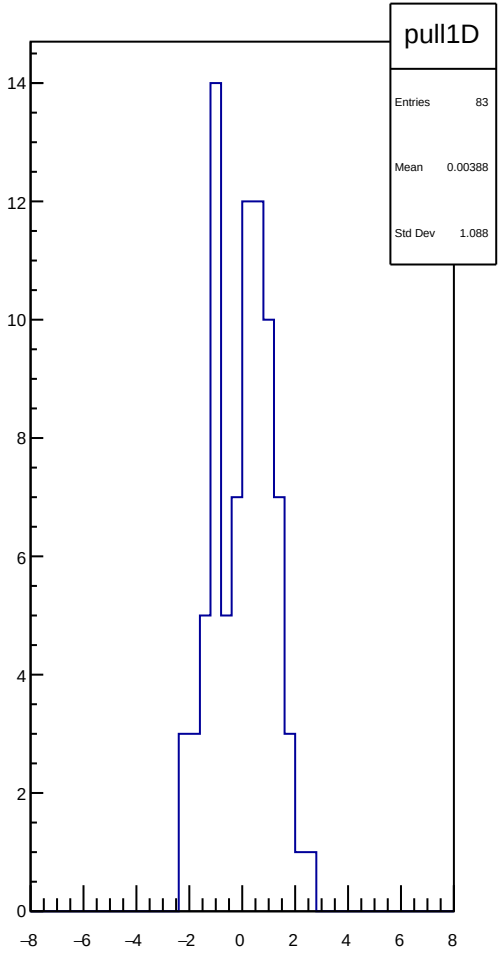

eigen_cor_asym_atr2_rms vs run
χ² / ndf 281.7 / 82
p0 2378 ± 1.874
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

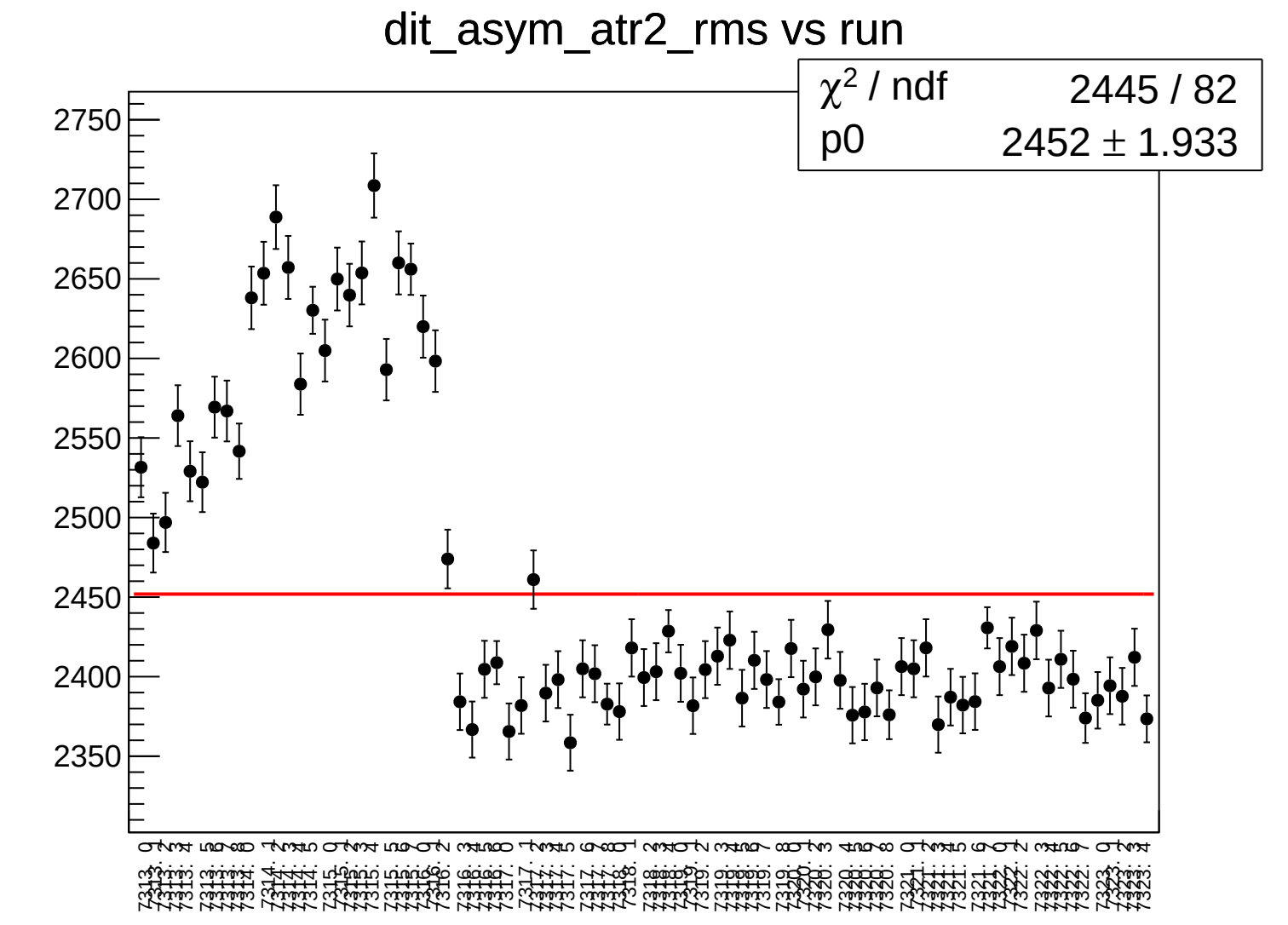

asym_atr2_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 85.03 / 82
p0 1.755e+04 ± 1.492e+04
pull
Entries 83
Mean 1150
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

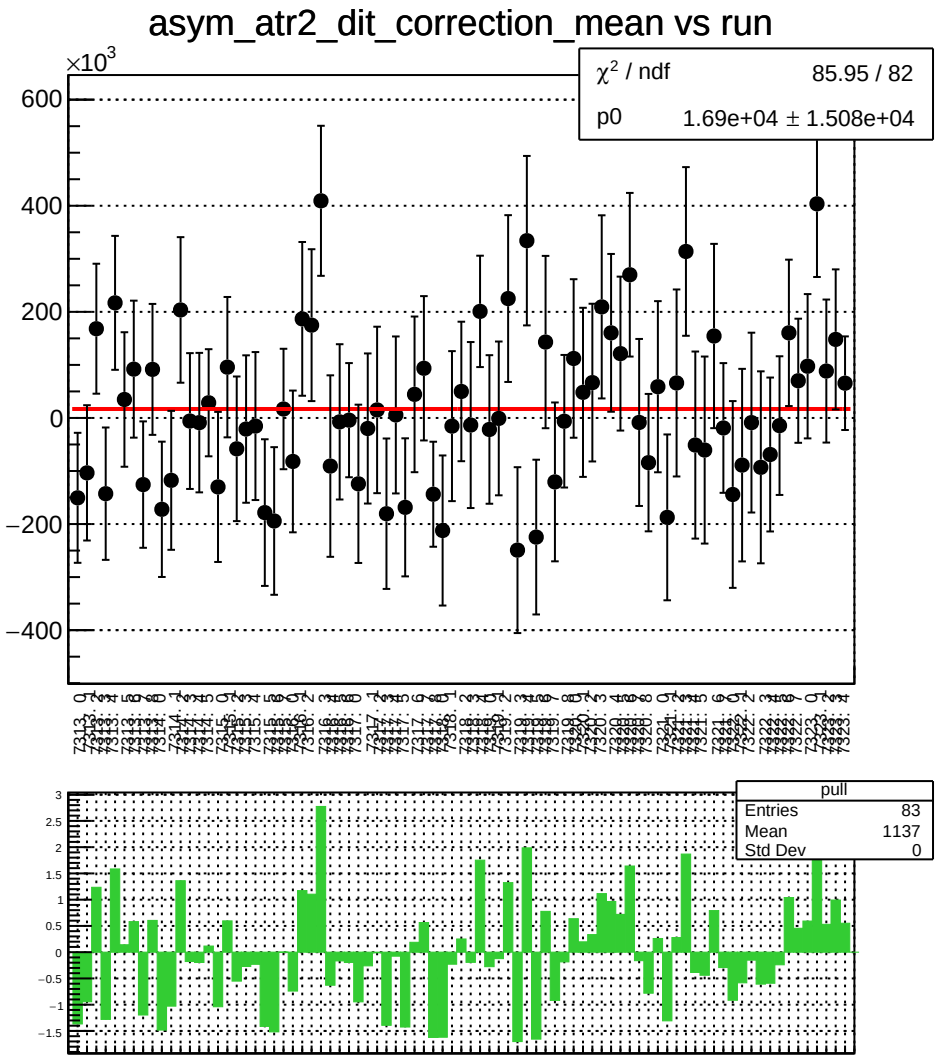

pull1D
Entries 83
Mean 0.004384
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

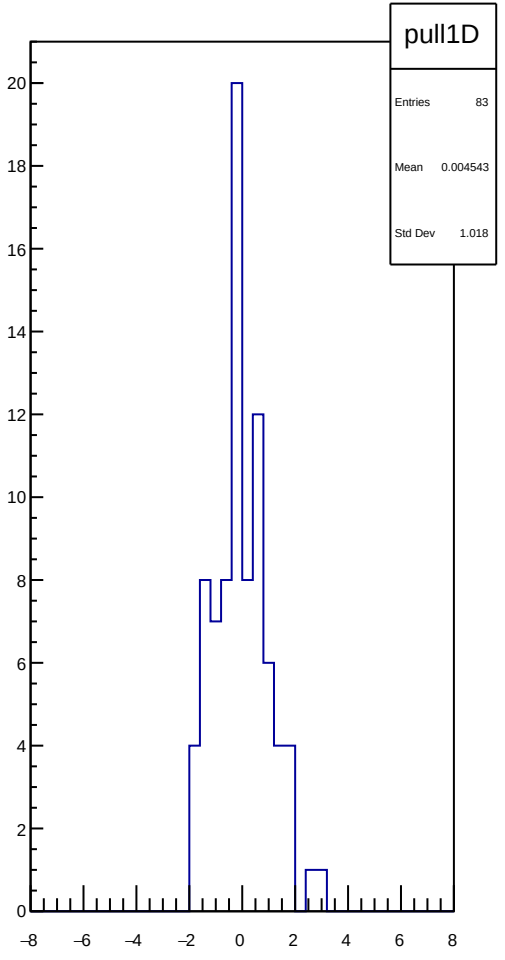

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.77e+04 / 82
p0 1.332e+04 ± 10.55
17000
16000
15000
14000
13000
12000
11000
10000

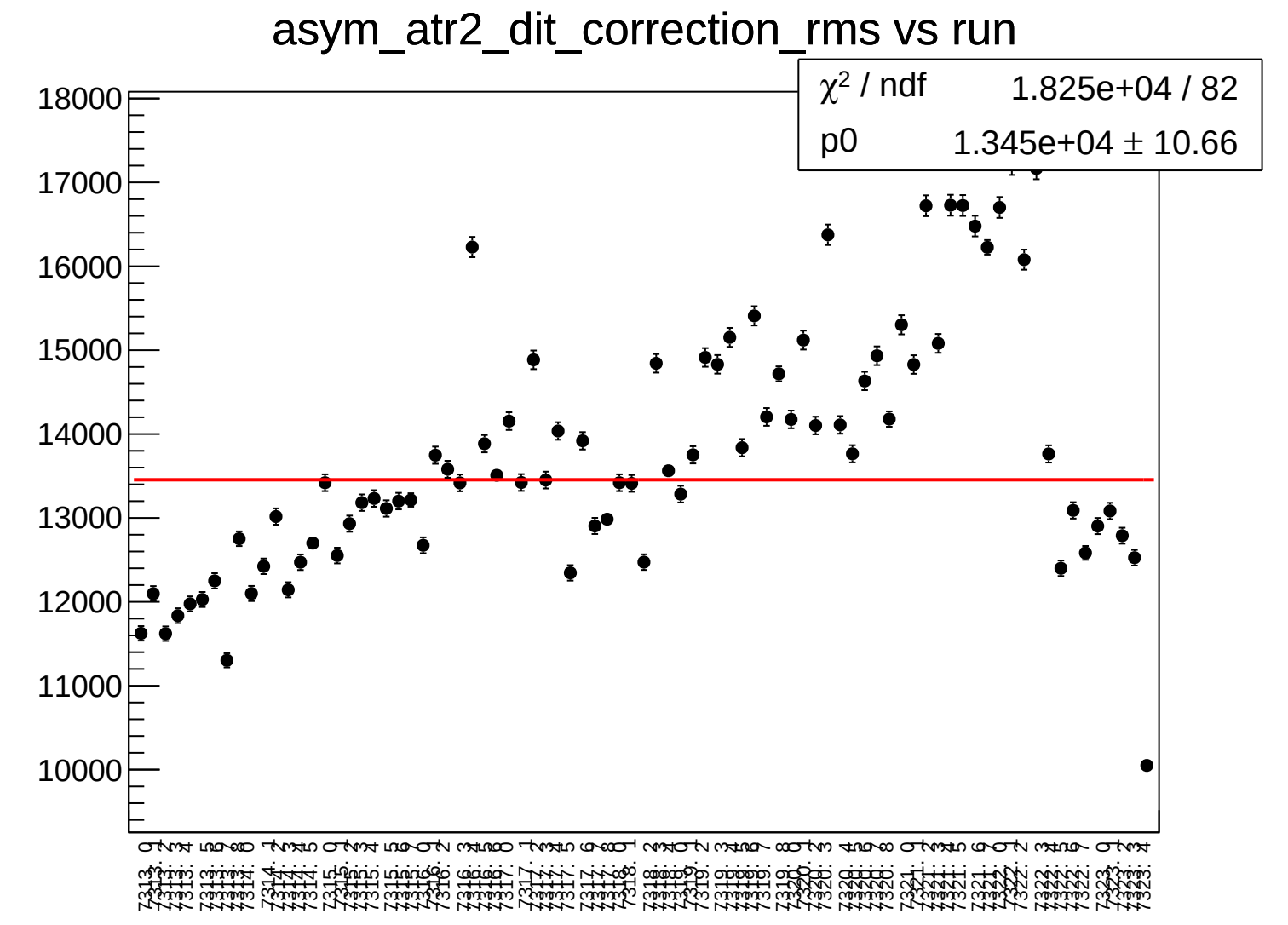

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 98.2 / 82
p0 2599 ± 2734
100
50
0
−50
−100
pull
Entries 83
Mean 350.7
Std Dev 0
2
1
0
−1
−2

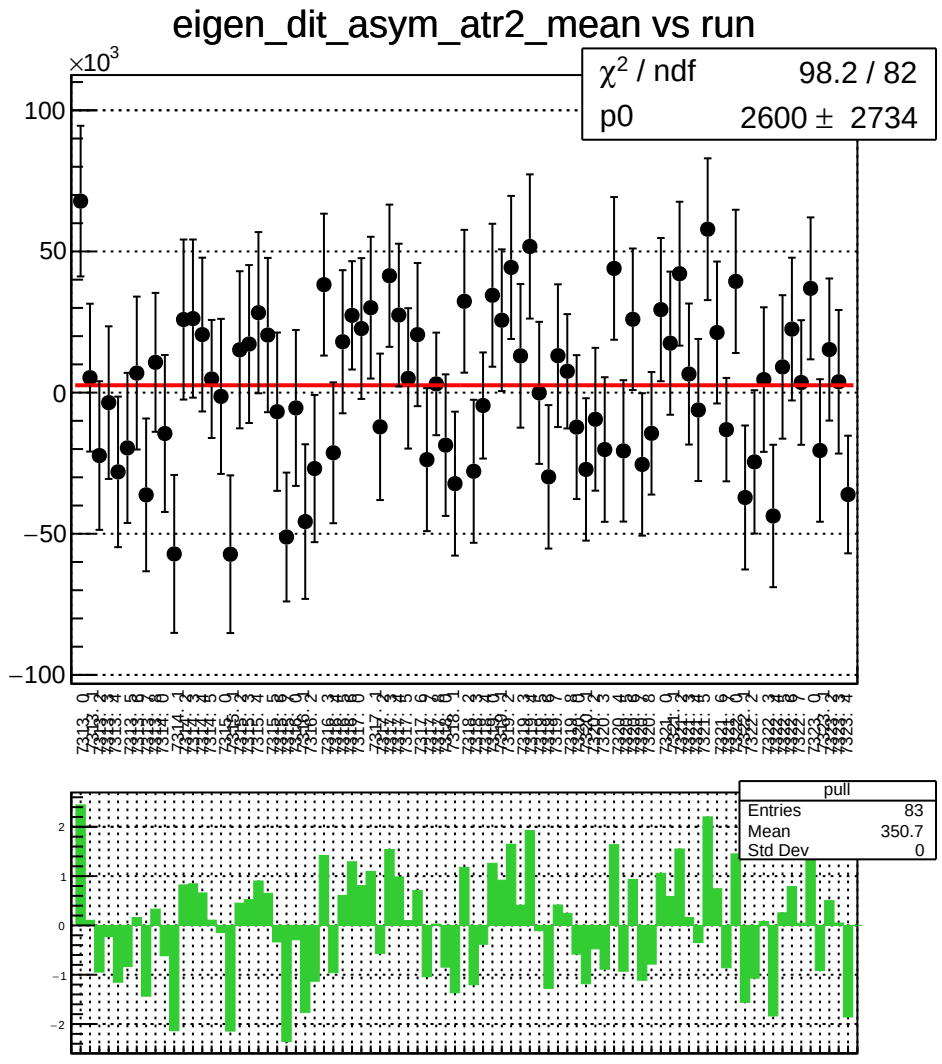

pull1D
Entries 83
Mean 0.00388
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

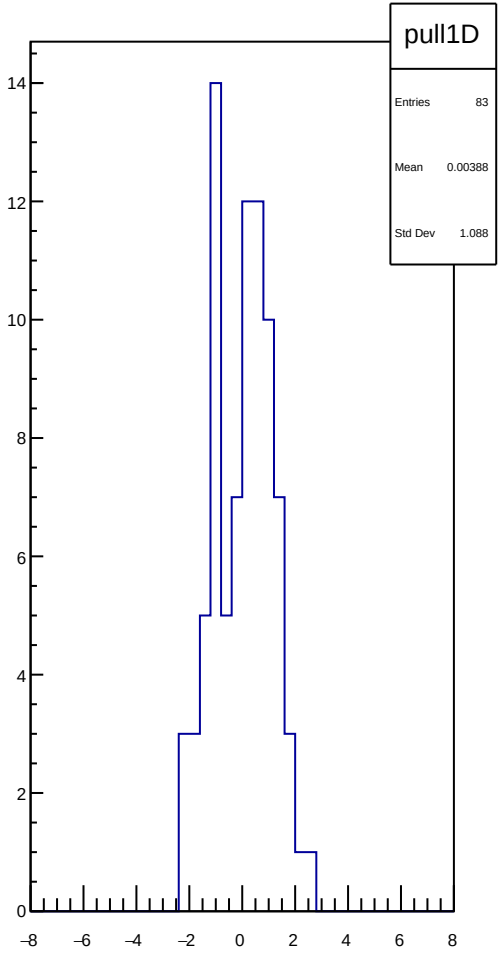

dit_asym_atr2_rms vs run
χ² / ndf 2445 / 82
p0 2452 ± 1.933
2750
2700
2650
2600
2550
2500
2450
2400
2350

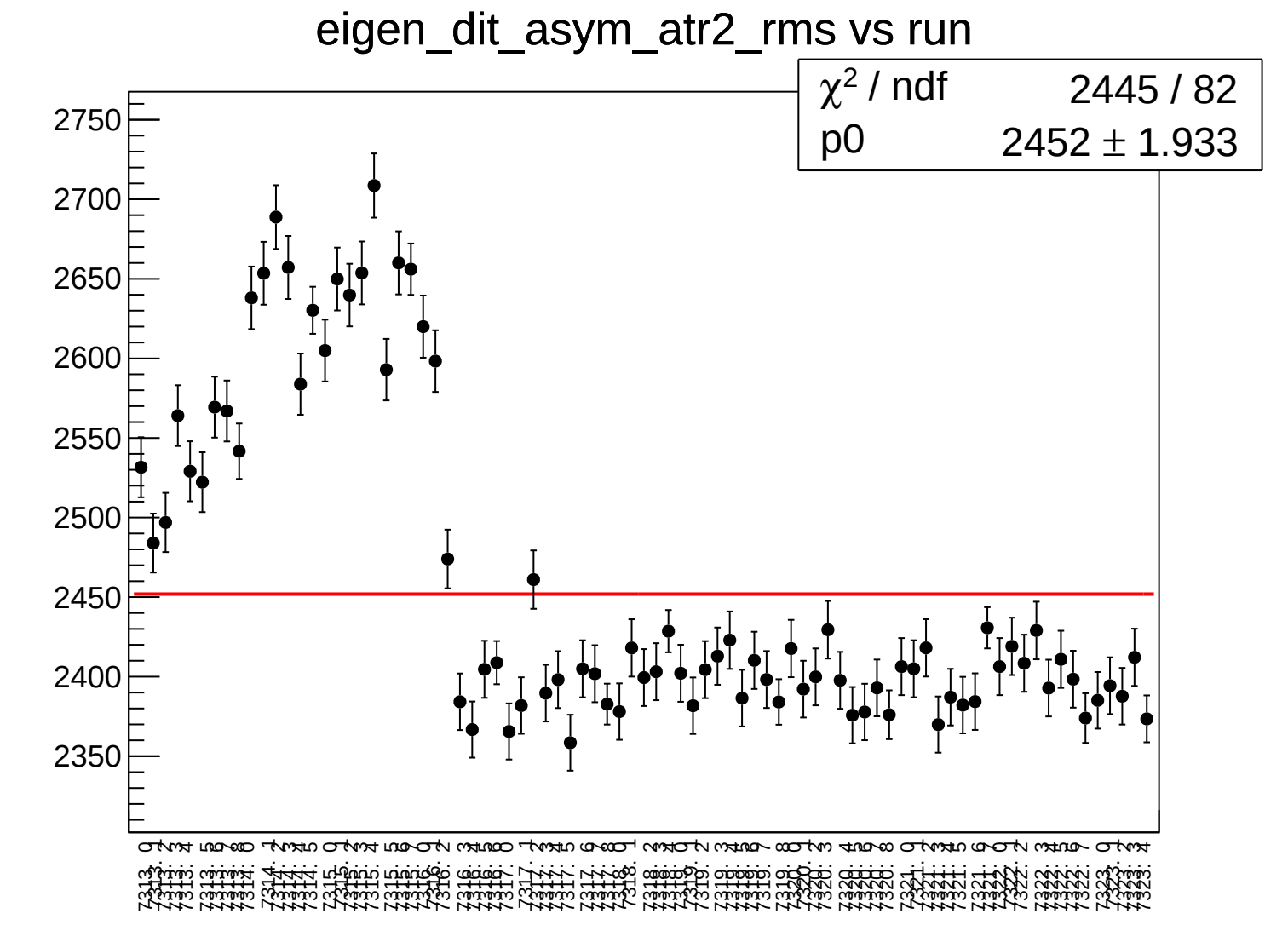

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 85.95 / 82
p0 1.69e+04 ± 1.508e+04
pull
Entries 83
Mean 1137
Std Dev 0

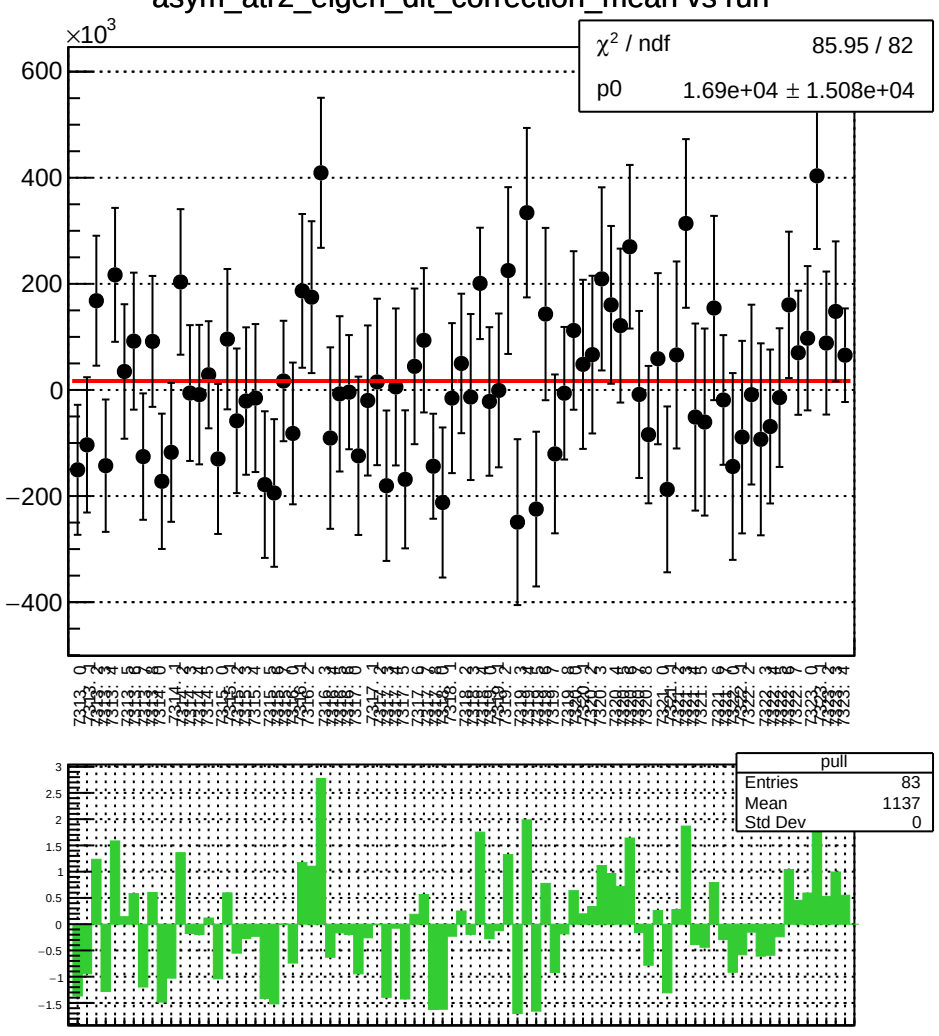

pull1D
Entries 83
Mean 0.004543
Std Dev 1.018

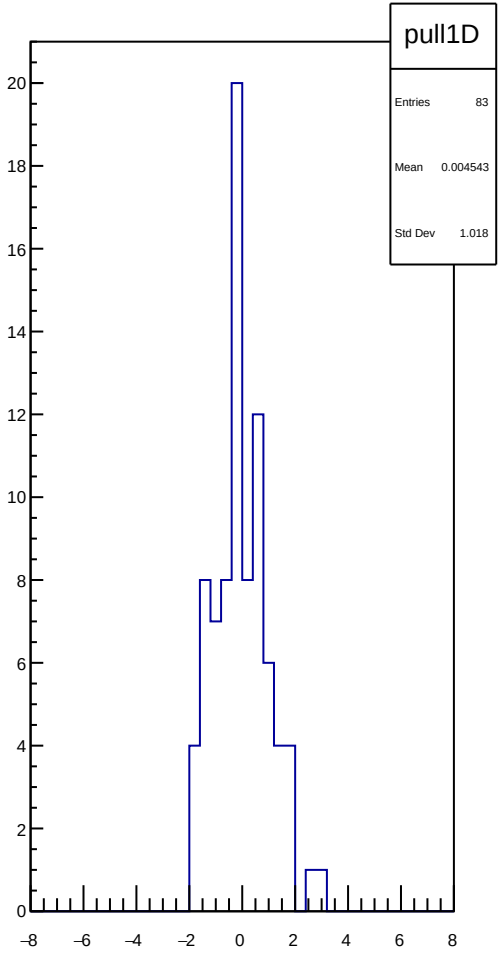

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 1.345e+04 ± 10.66
18000
17000
16000
15000
14000
13000
12000
11000
10000

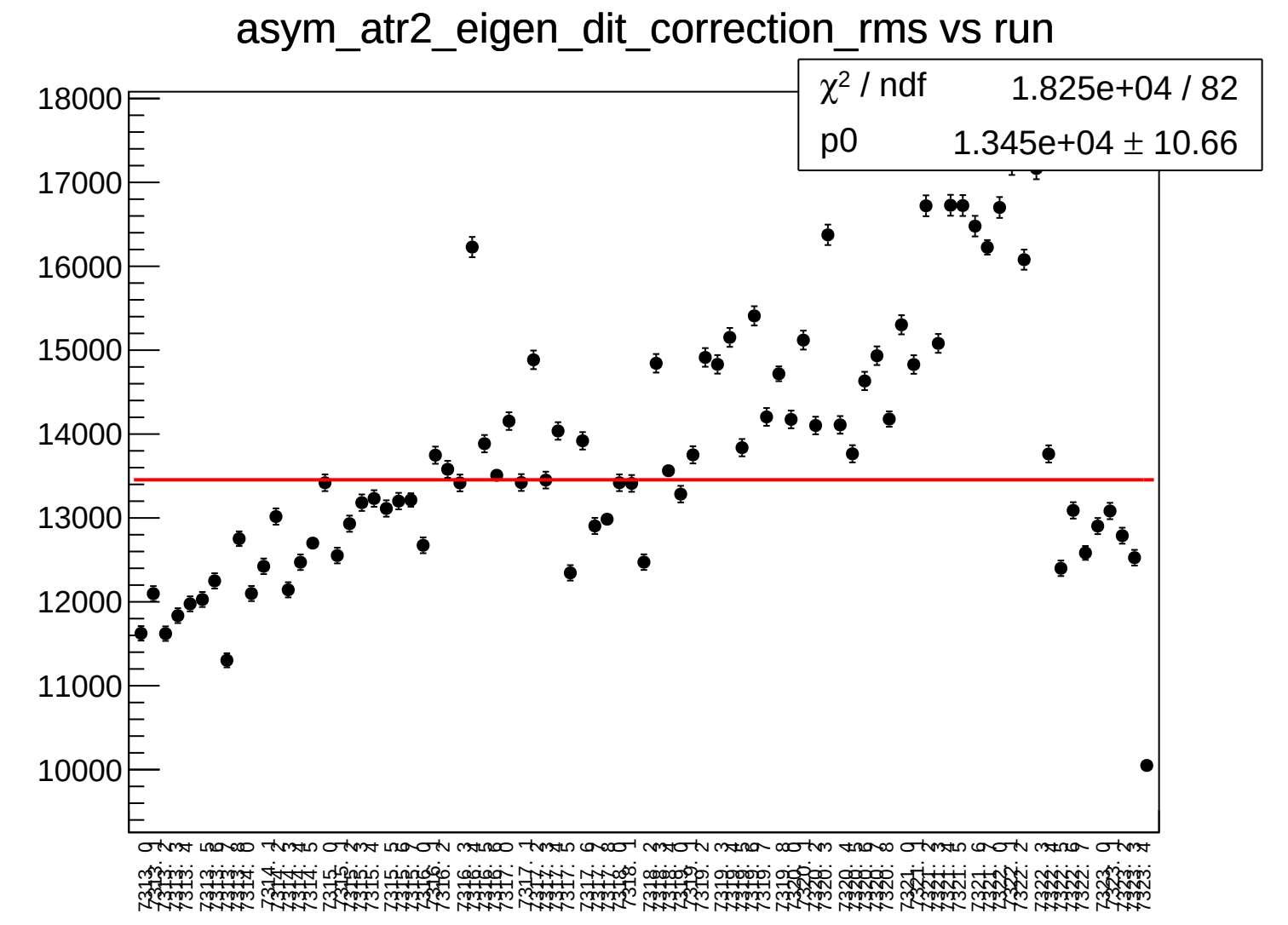

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 98.2 / 82
p0 2600 ± 2734
100
50
0
−50
−100
pull
Entries 83
Mean 350.7
Std Dev 0
2
1
0
−1
−2

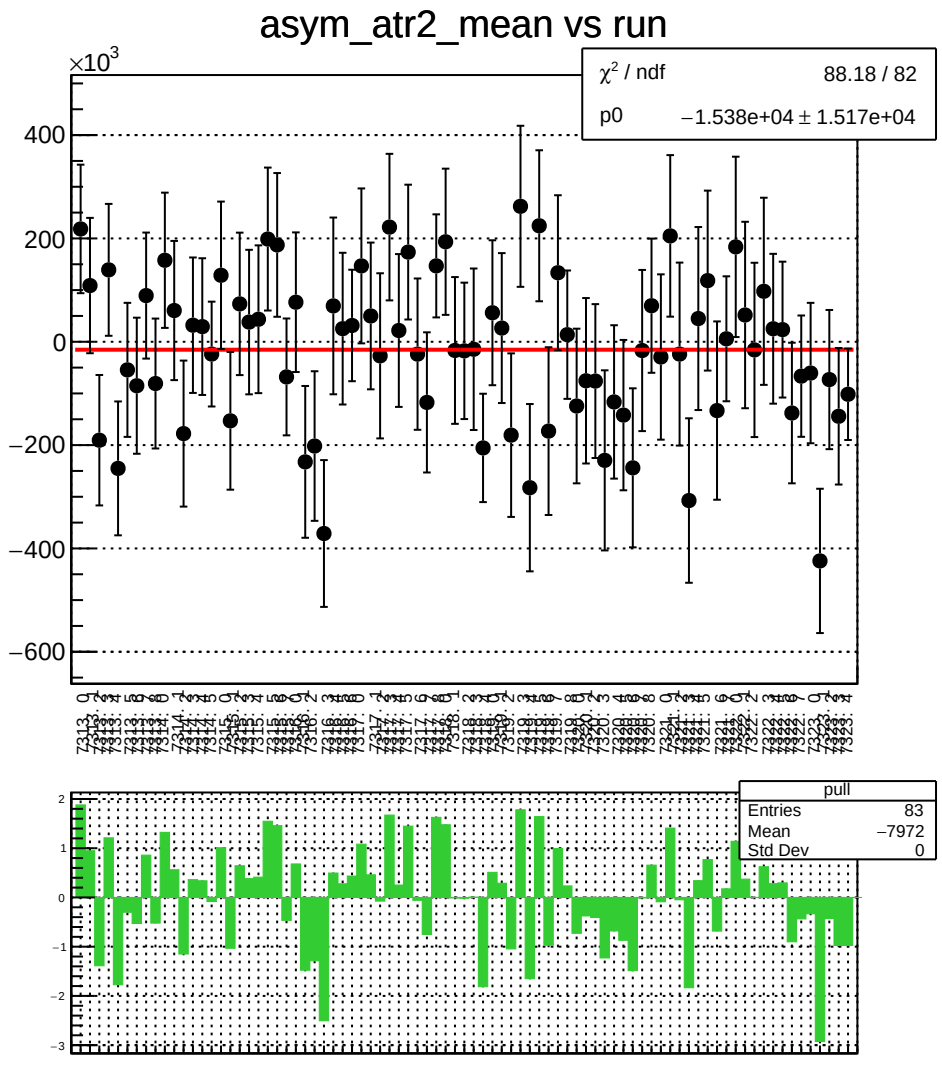

pull1D
Entries 83
Mean 0.00388
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

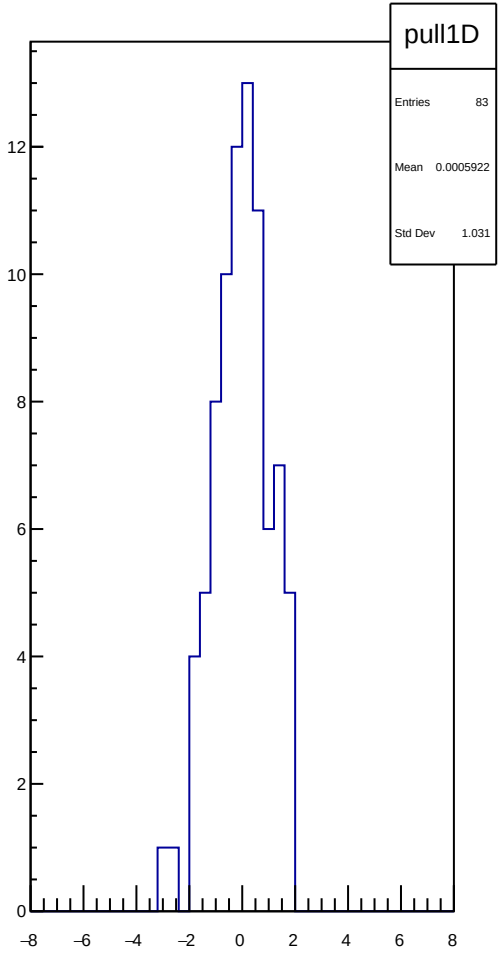

eigen_dit_asym_atr2_rms vs run
χ² / ndf 2445 / 82
p0 2452 ± 1.933
2750
2700
2650
2600
2550
2500
2450
2400
2350

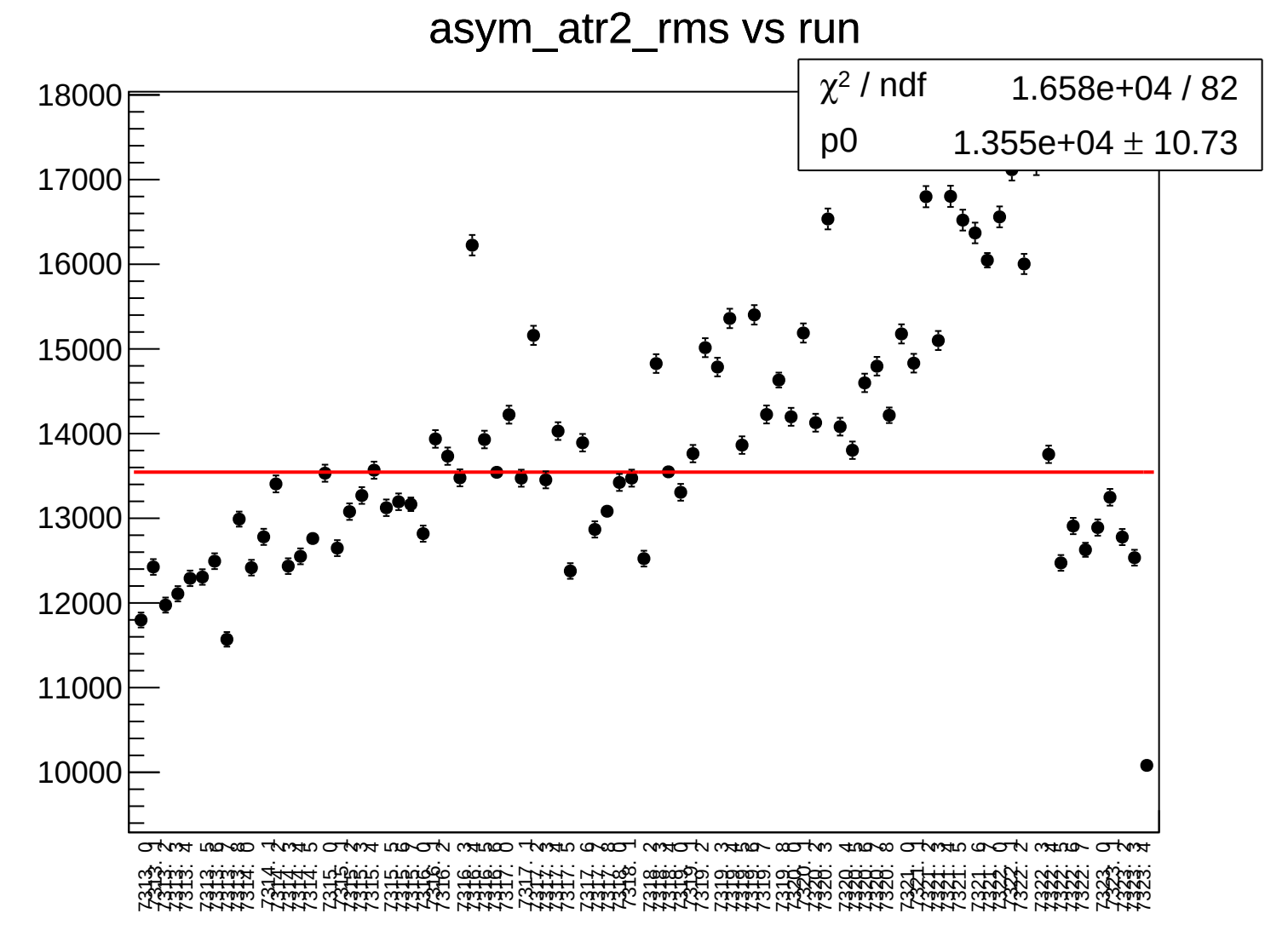

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.95 / 82
p0 1.69e+04 ± 1.508e+04
pull
Entries 83
Mean 1137
Std Dev 0

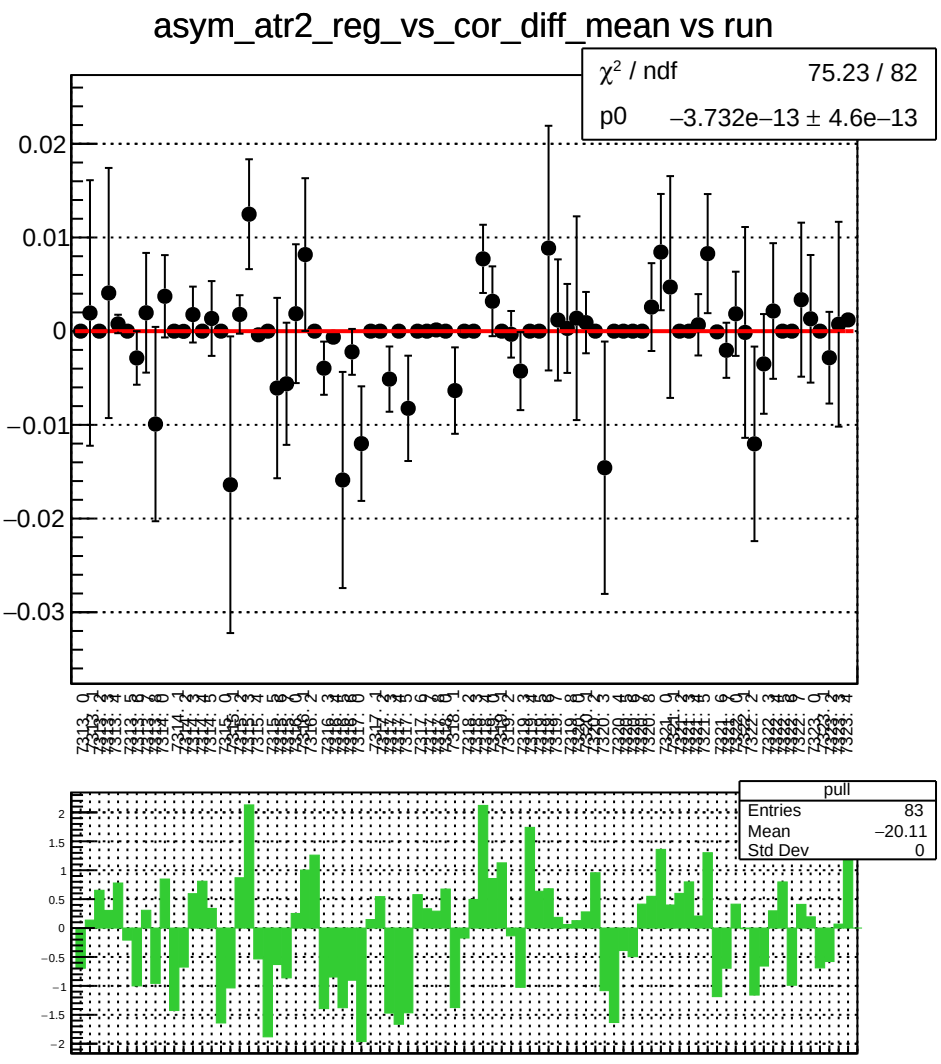

pull1D
Entries 83
Mean 0.004543
Std Dev 1.018

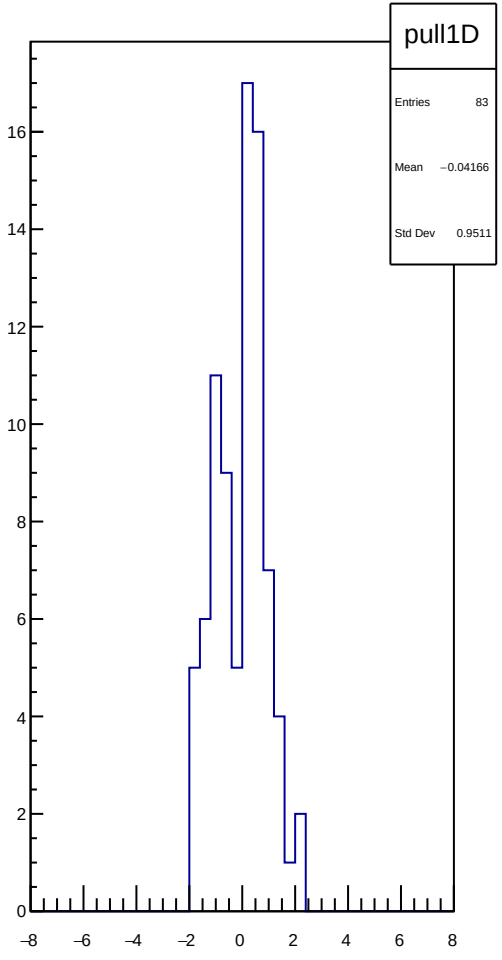

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 1.345e+04 ± 10.66
18000
17000
16000
15000
14000
13000
12000
11000
10000

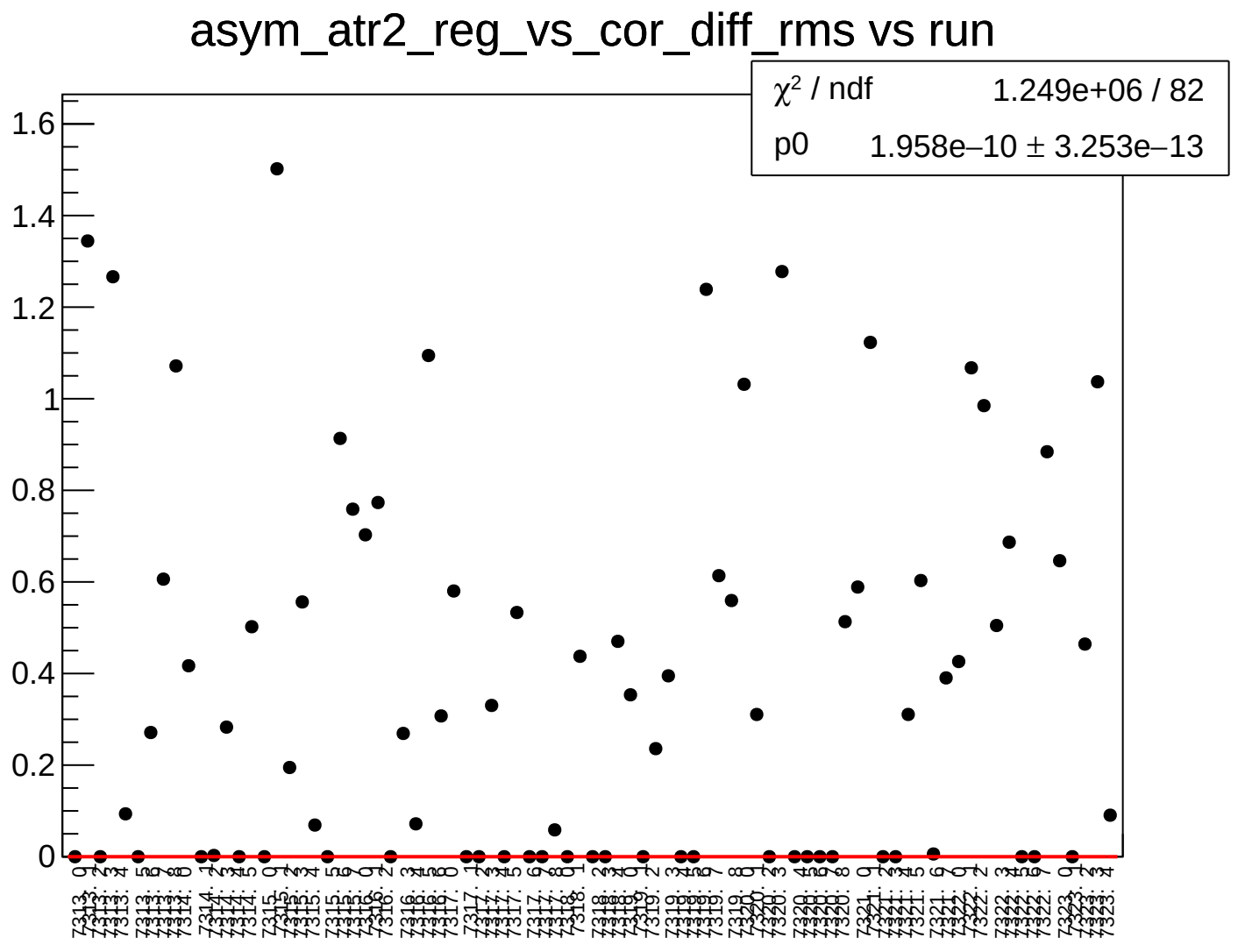

asym_atr2_mean vs run
×10^3
χ² / ndf 88.18 / 82
p0 −1.538e+04 ± 1.517e+04
pull
Entries 83
Mean −7972
Std Dev 0

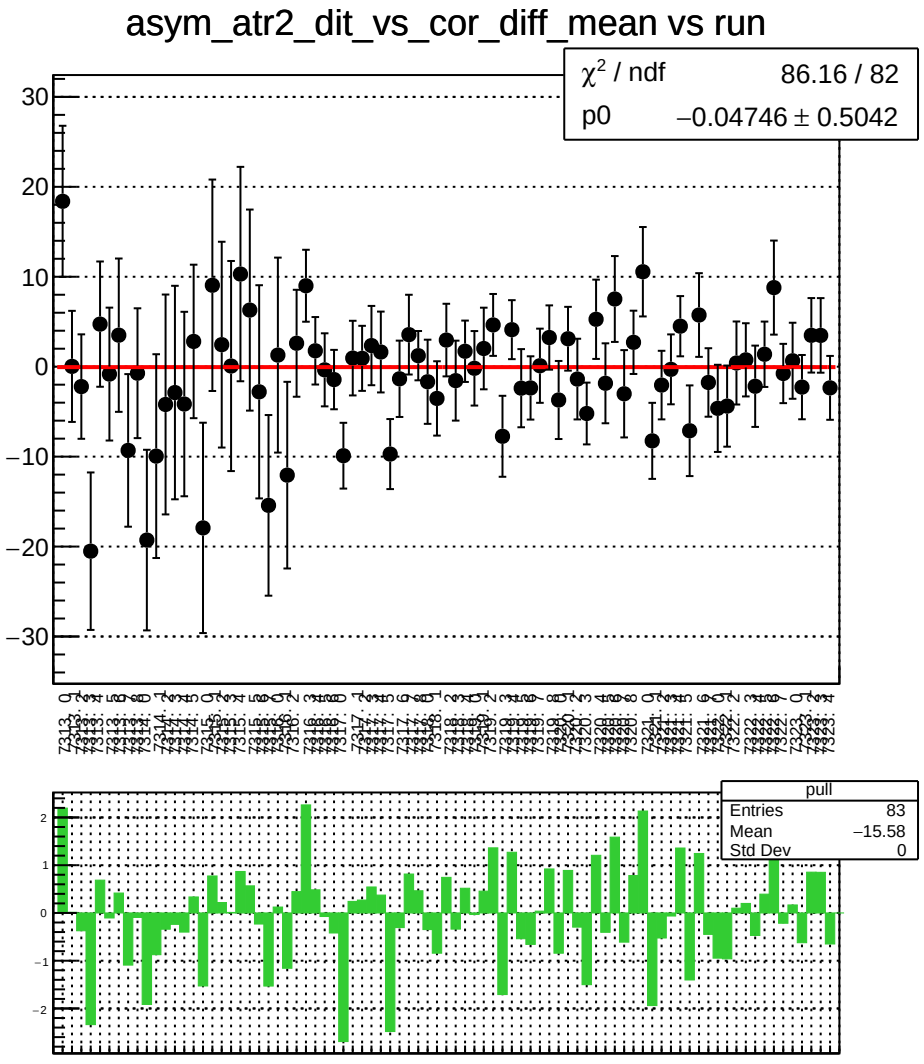

pull1D
Entries 83
Mean 0.0005922
Std Dev 1.031

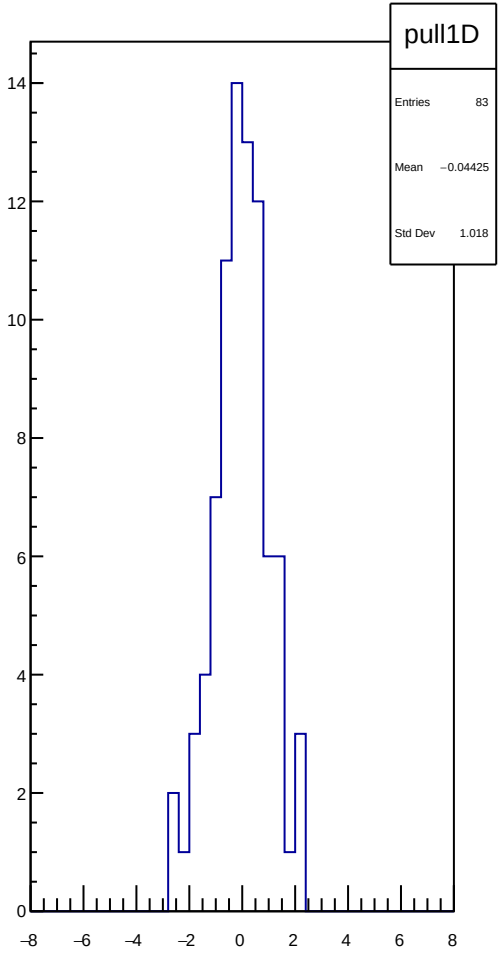

asym_atr2_rms vs run
χ² / ndf 1.658e+04 / 82
p0 1.355e+04 ± 10.73
18000
17000
16000
15000
14000
13000
12000
11000
10000

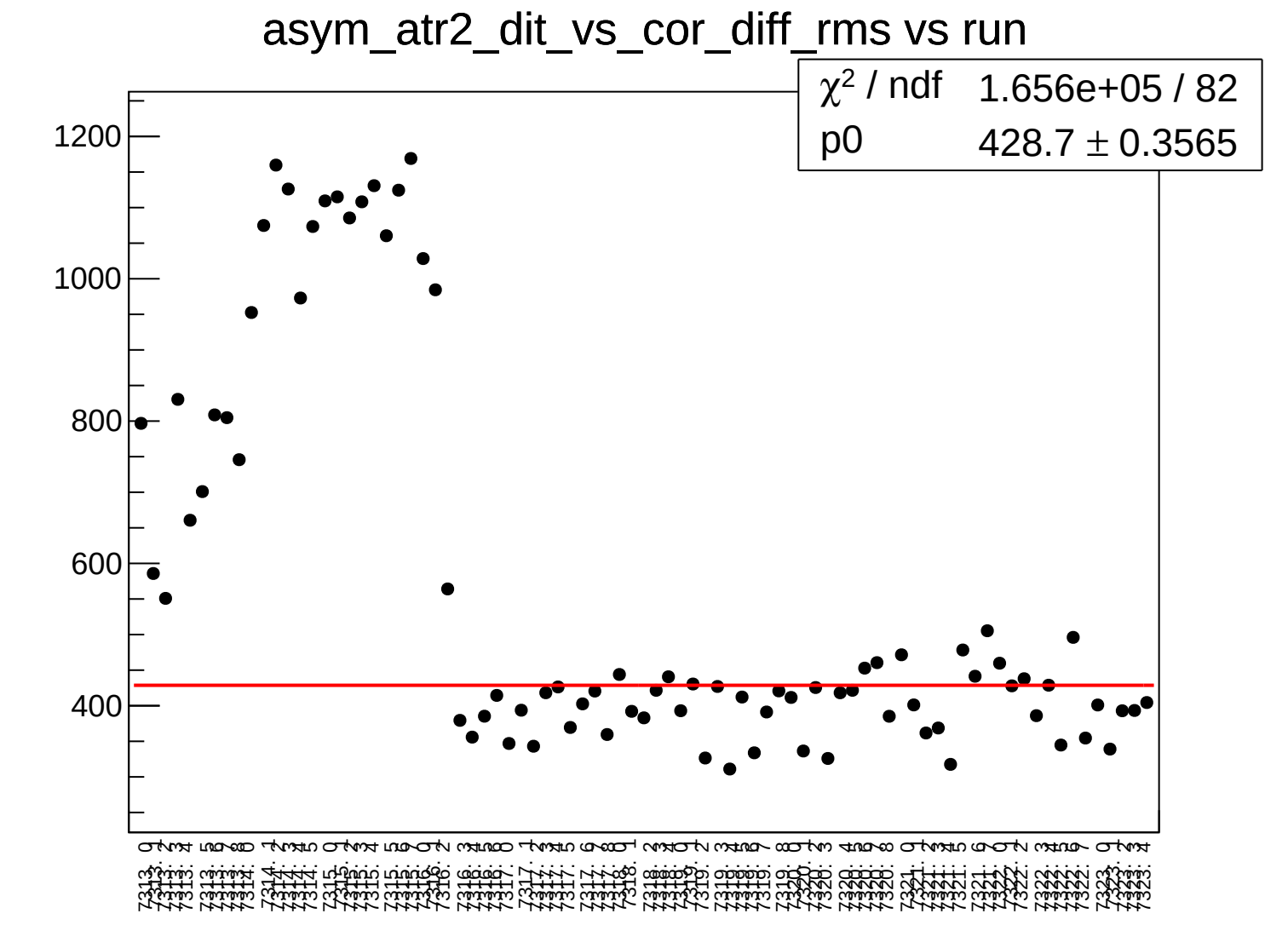

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 75.23 / 82
p0 −3.732e−13 ± 4.6e−13
pull
Entries 83
Mean −20.11
Std Dev 0

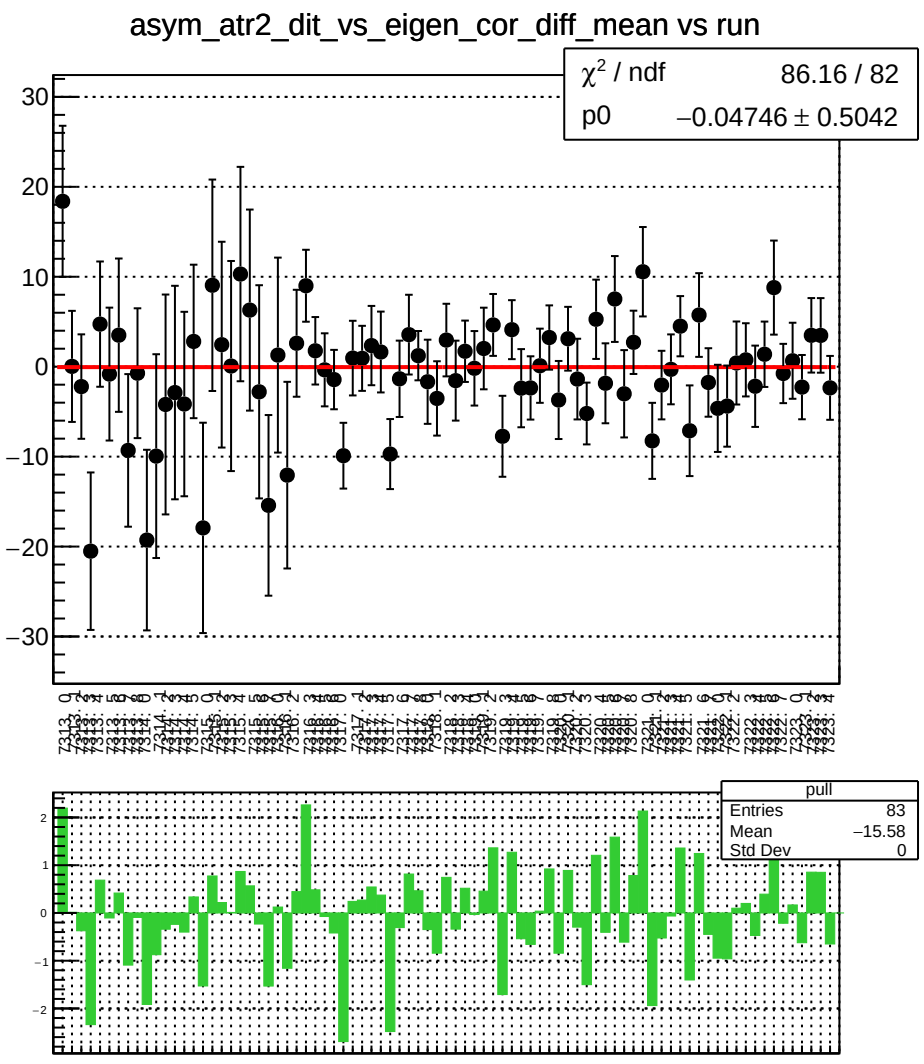

pull1D
Entries 83
Mean −0.04166
Std Dev 0.9511

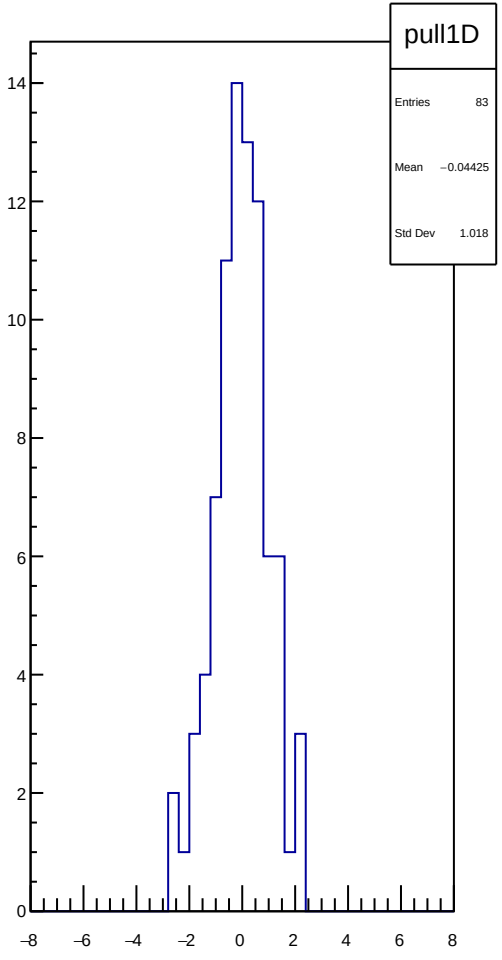

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 82
p0 1.958e−10 ± 3.253e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

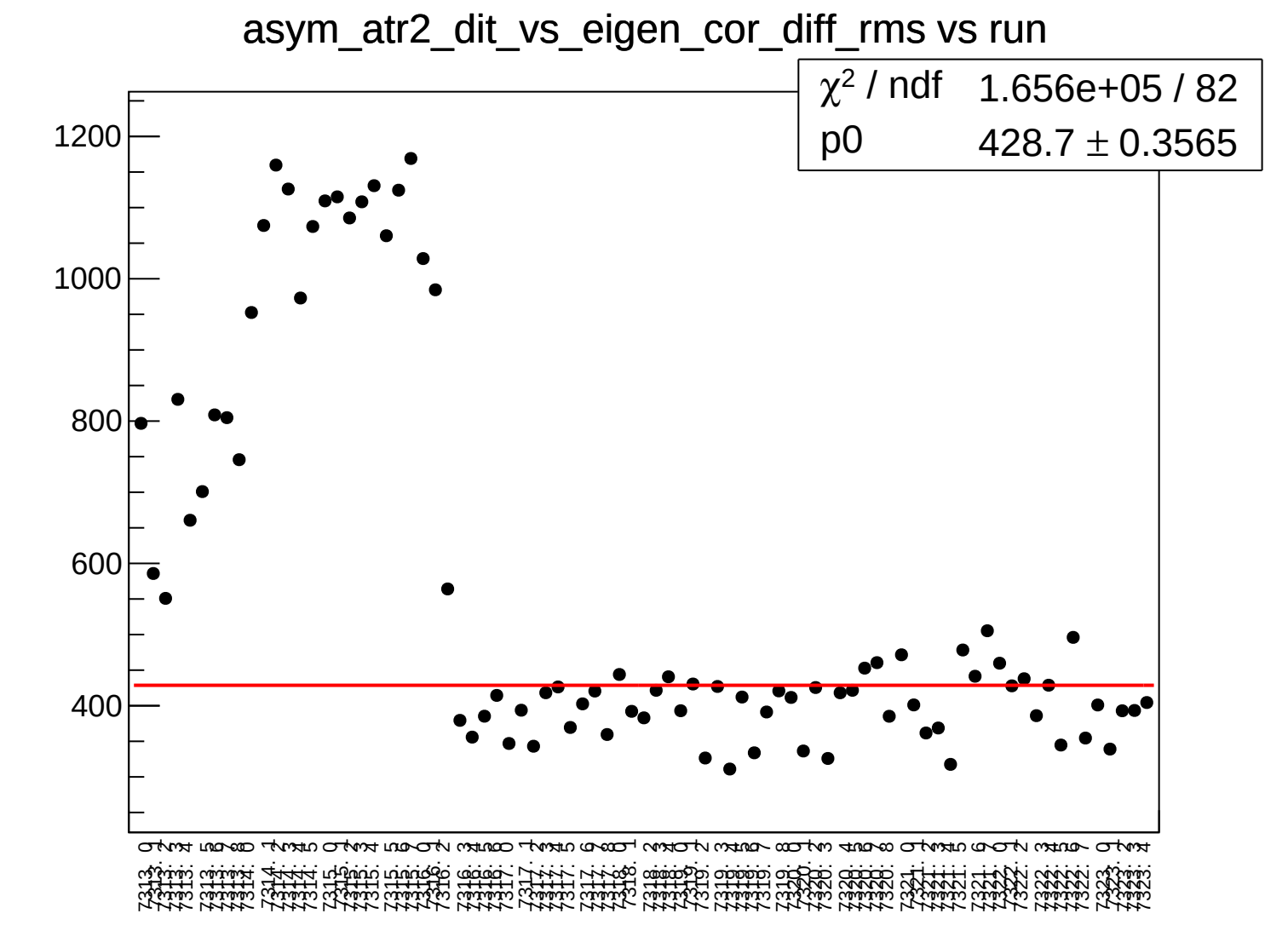

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.16 / 82
p0 −0.04746 ± 0.5042
pull
Entries 83
Mean −15.58
Std Dev 0

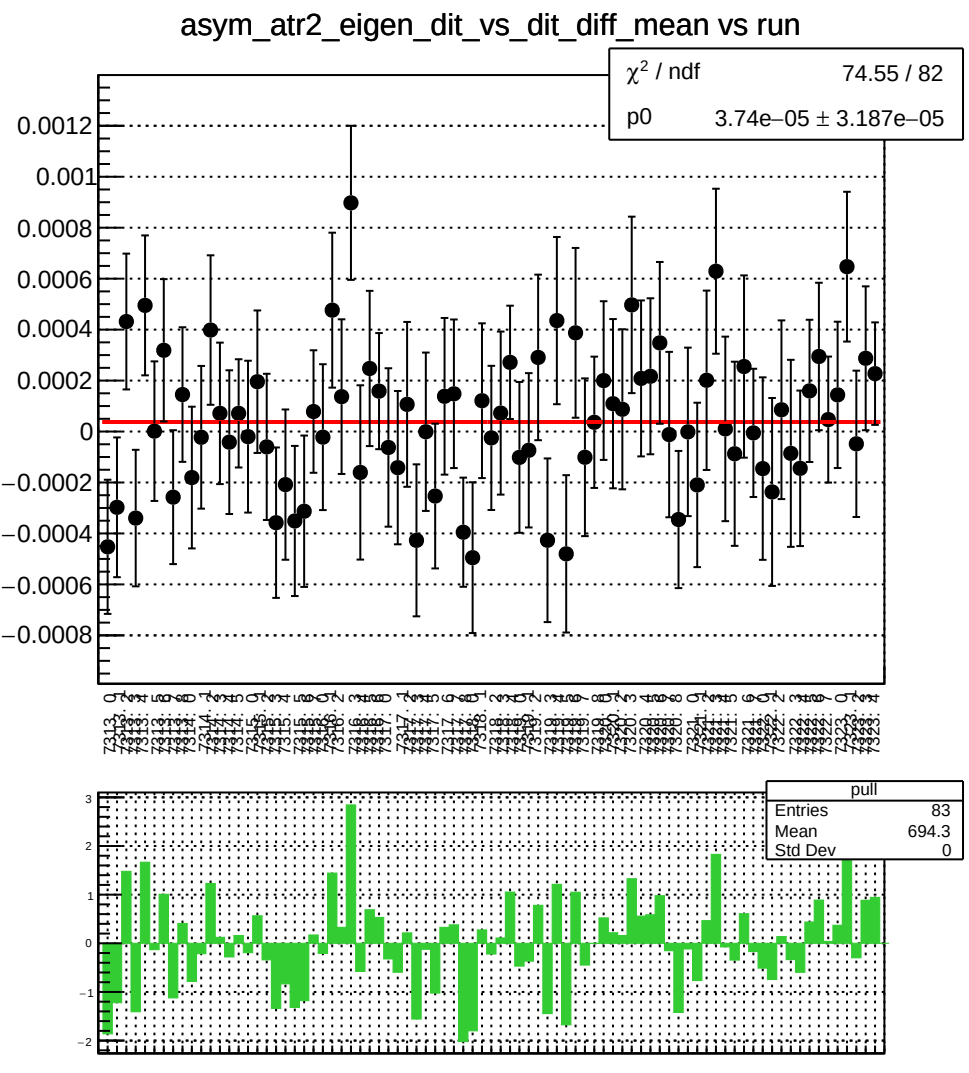

pull1D
Entries 83
Mean −0.04425
Std Dev 1.018

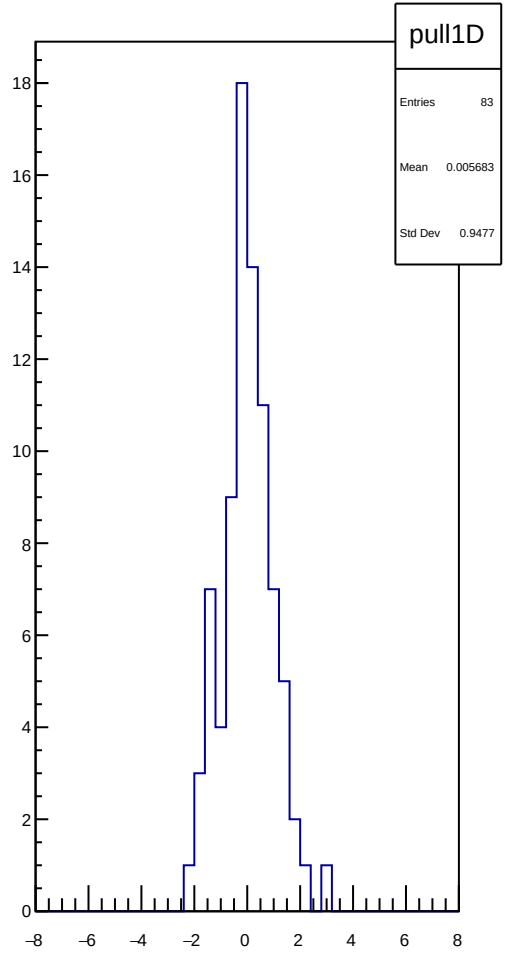

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 82
p0 428.7 ± 0.3565
1200
1000
800
600
400

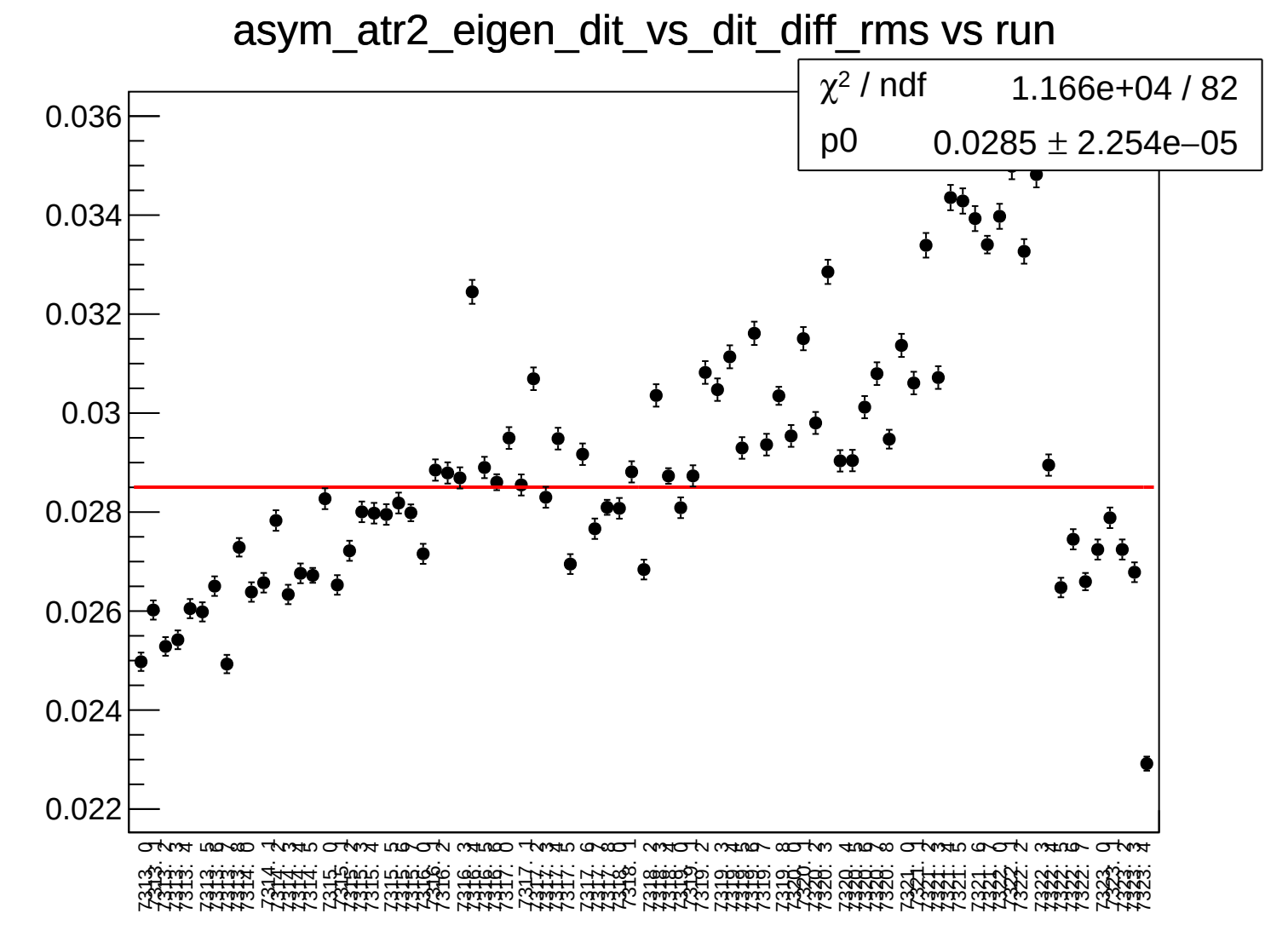

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.16 / 82
p0 −0.04746 ± 0.5042
pull
Entries 83
Mean −15.58
Std Dev 0

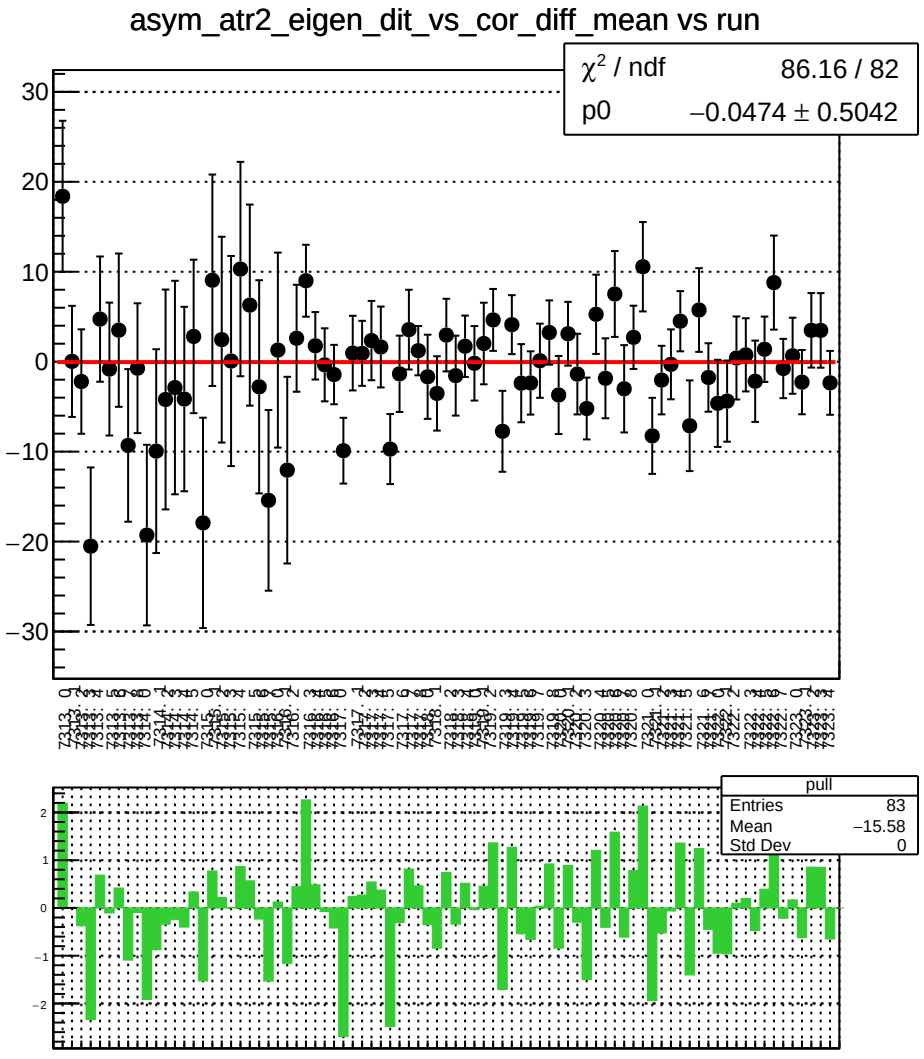

pull1D
Entries 83
Mean −0.04425
Std Dev 1.018

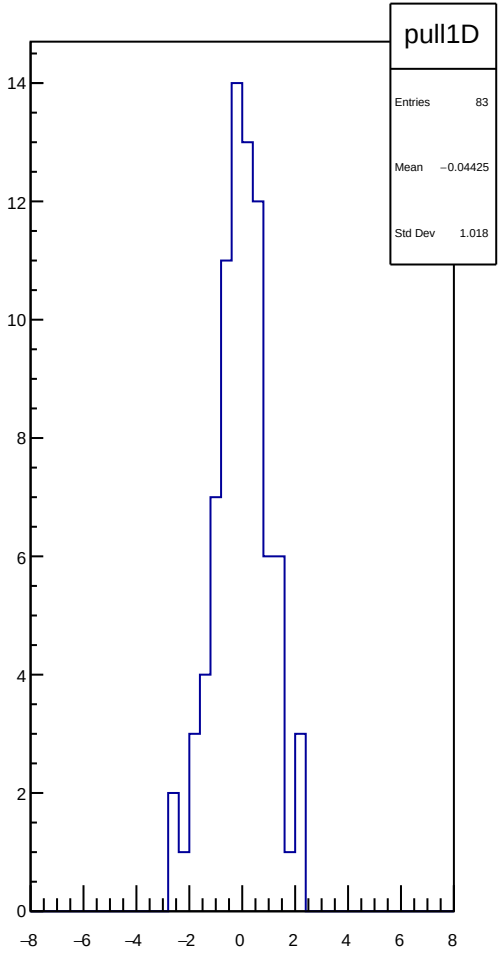

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 82
p0 428.7 ± 0.3565
1200
1000
800
600
400

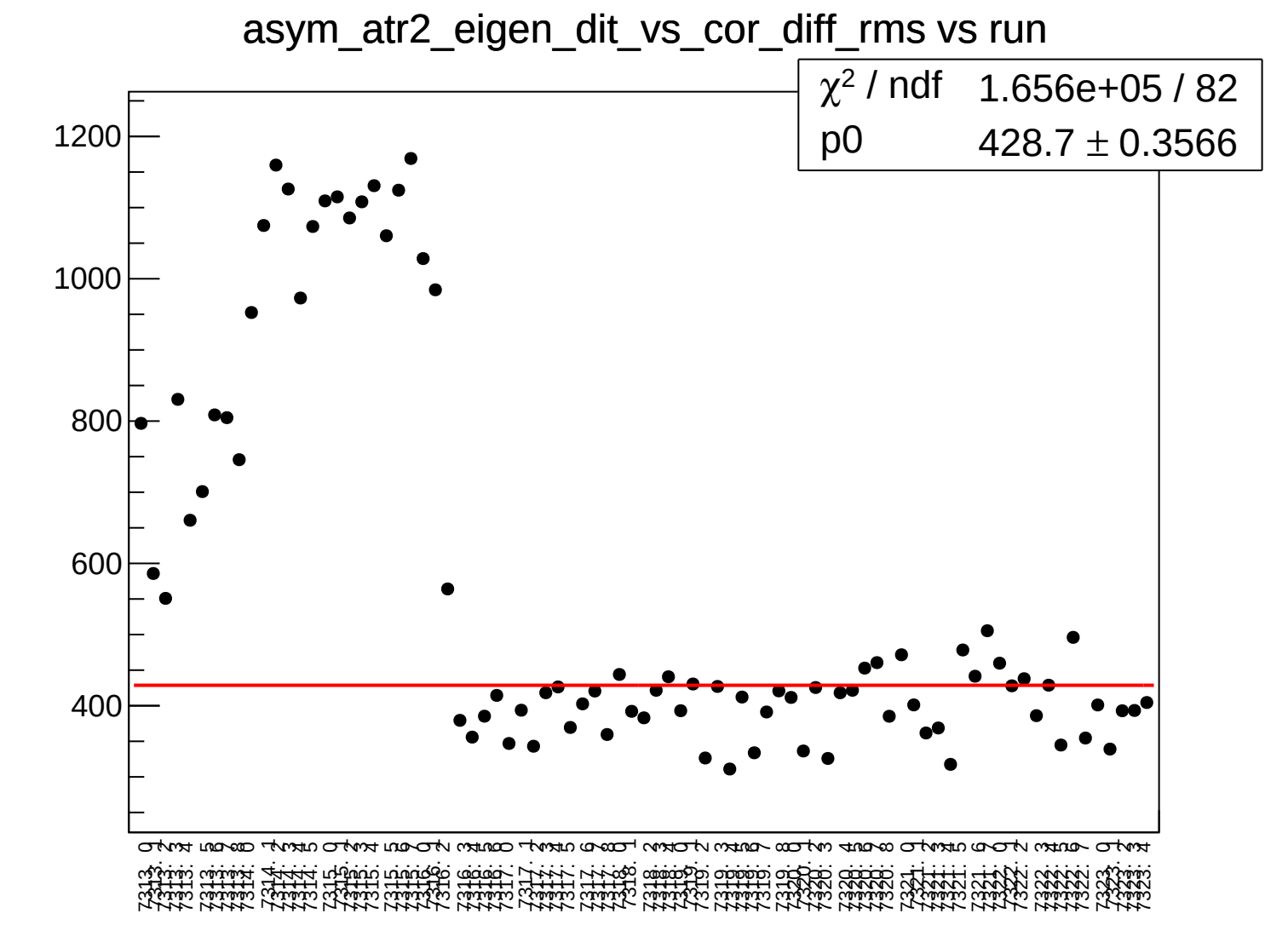

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.55 / 82
p0 3.74e−05 ± 3.187e−05
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 83
Mean 694.3
Std Dev 0

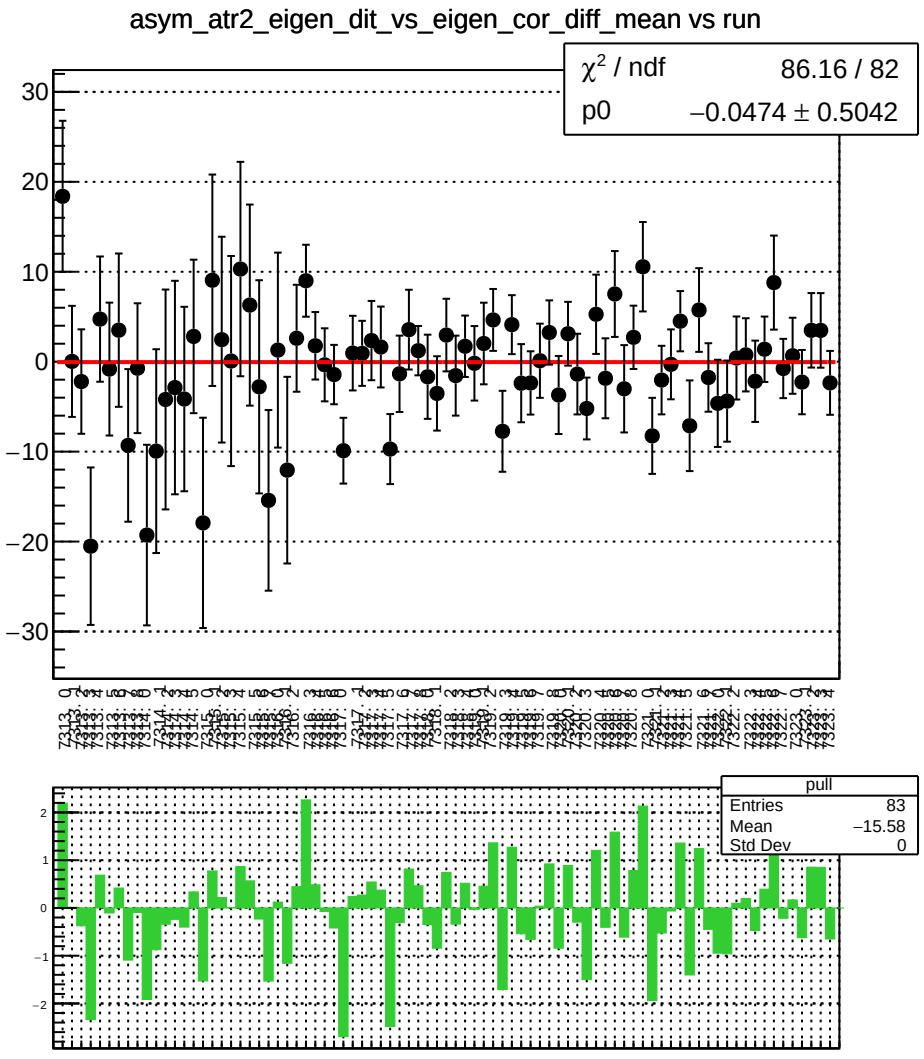

pull1D
Entries 83
Mean 0.005683
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

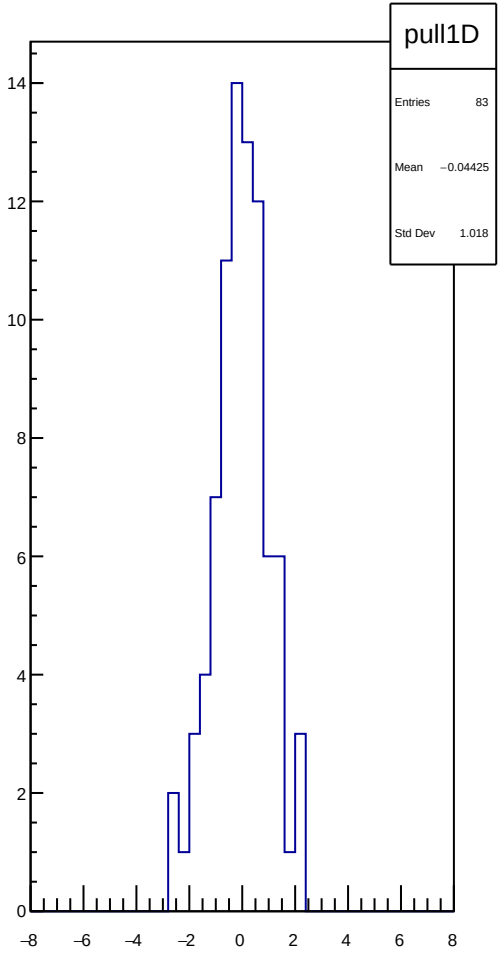

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.166e+04 / 82
p0 0.0285 ± 2.254e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

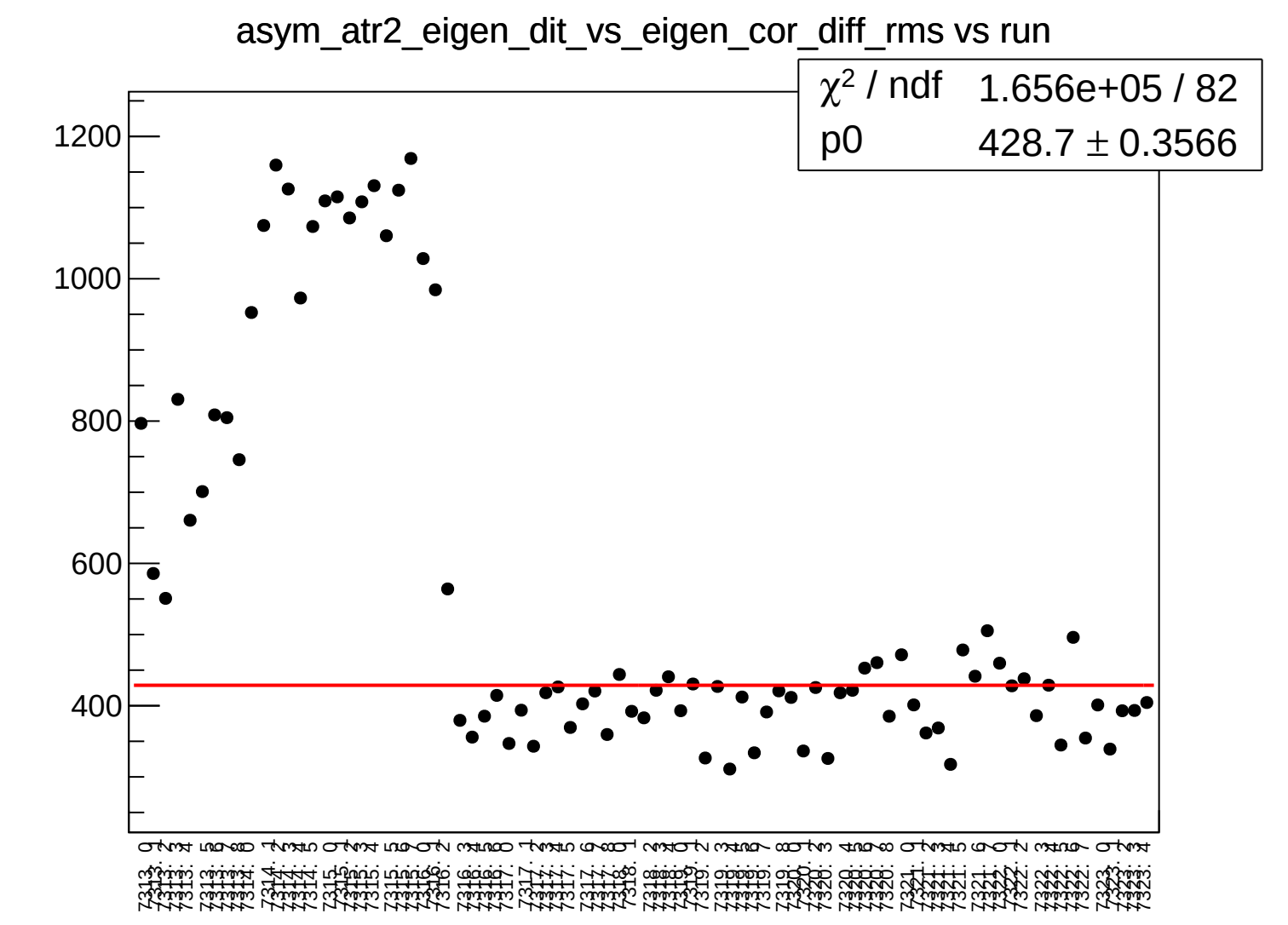

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.16 / 82
p0 −0.0474 ± 0.5042
pull
Entries 83
Mean −15.58
Std Dev 0

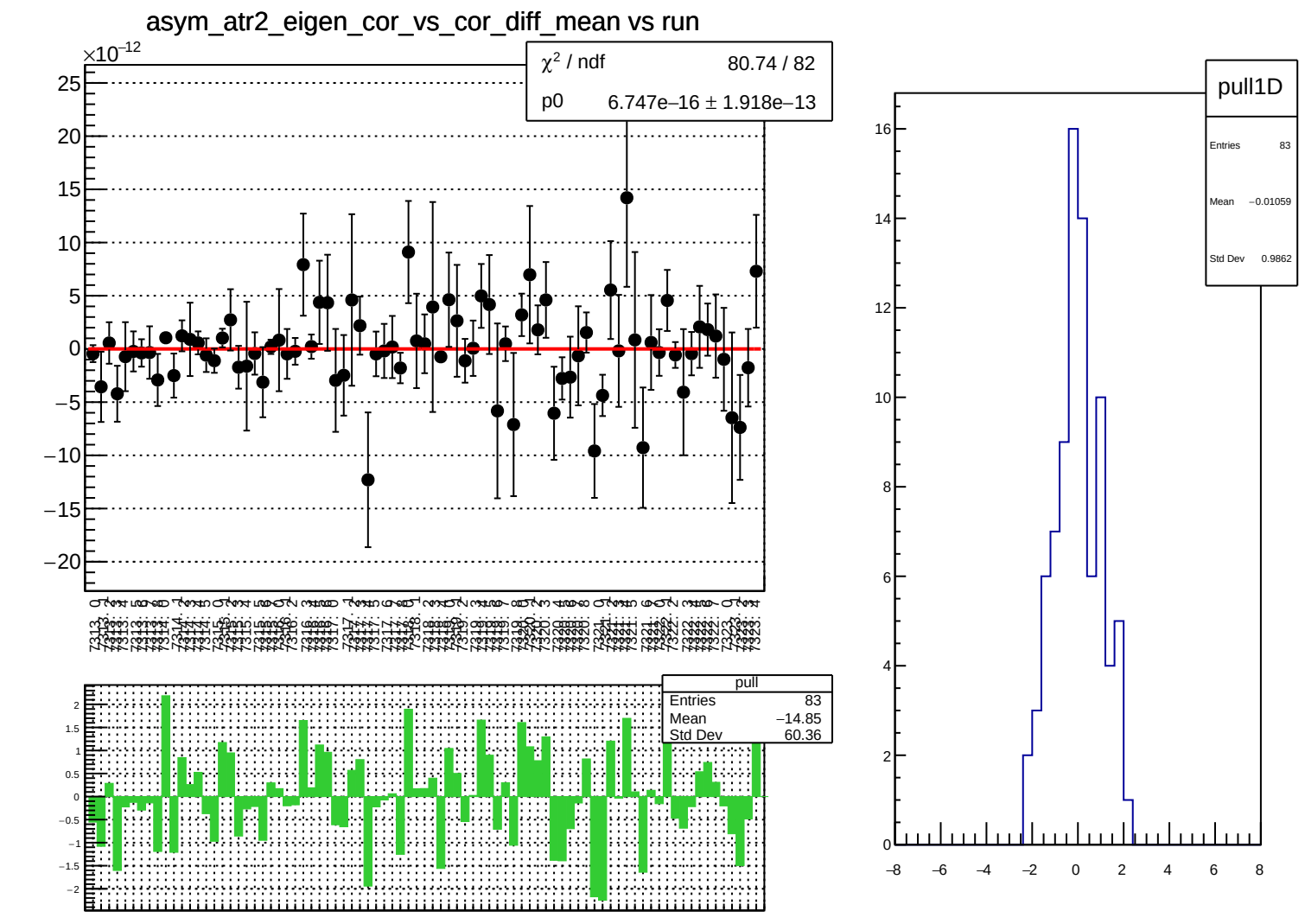

pull1D
Entries 83
Mean −0.04425
Std Dev 1.018

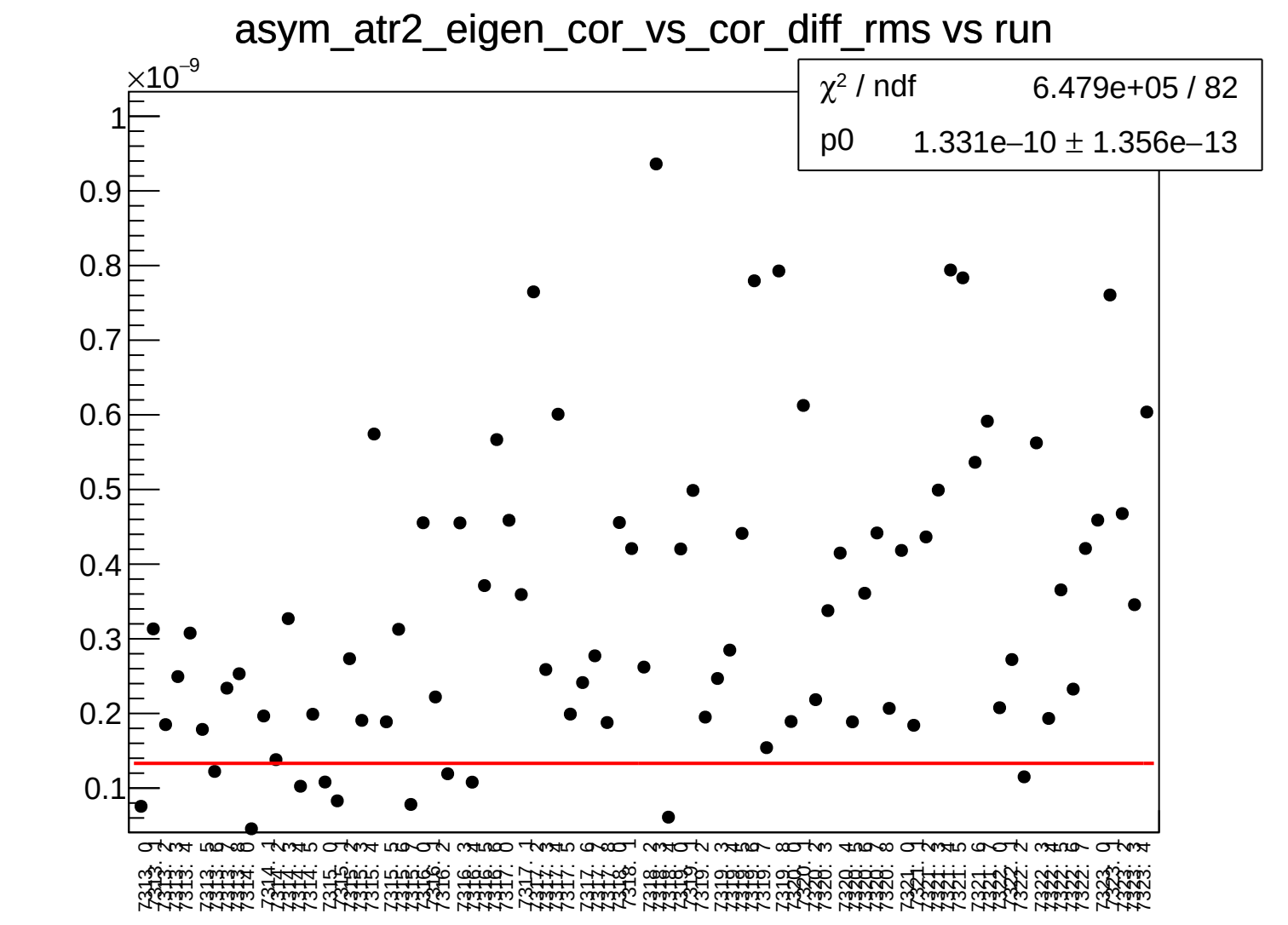

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 82
p0 428.7 ± 0.3566
1200
1000
800
600
400

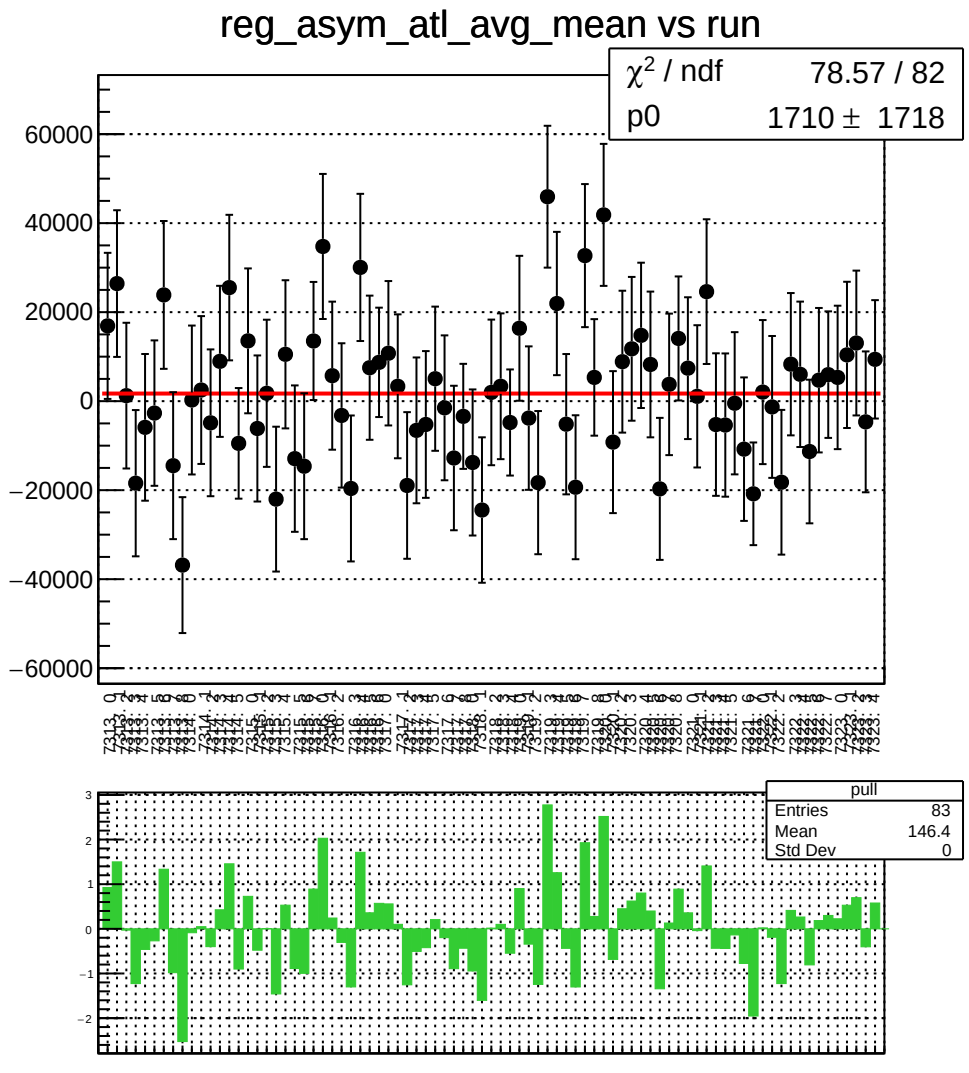

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.16 / 82
p0 −0.0474 ± 0.5042
pull
Entries 83
Mean −15.58
Std Dev 0

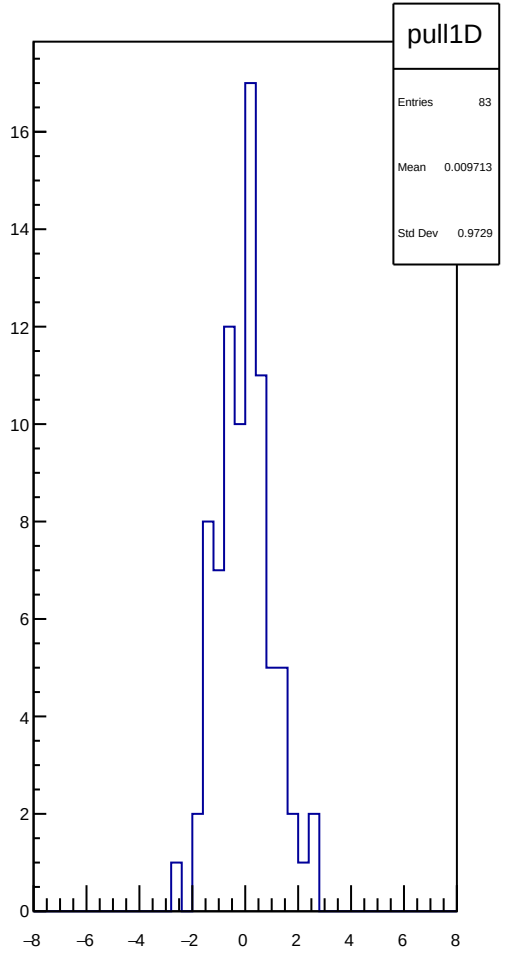

pull1D
Entries 83
Mean −0.04425
Std Dev 1.018

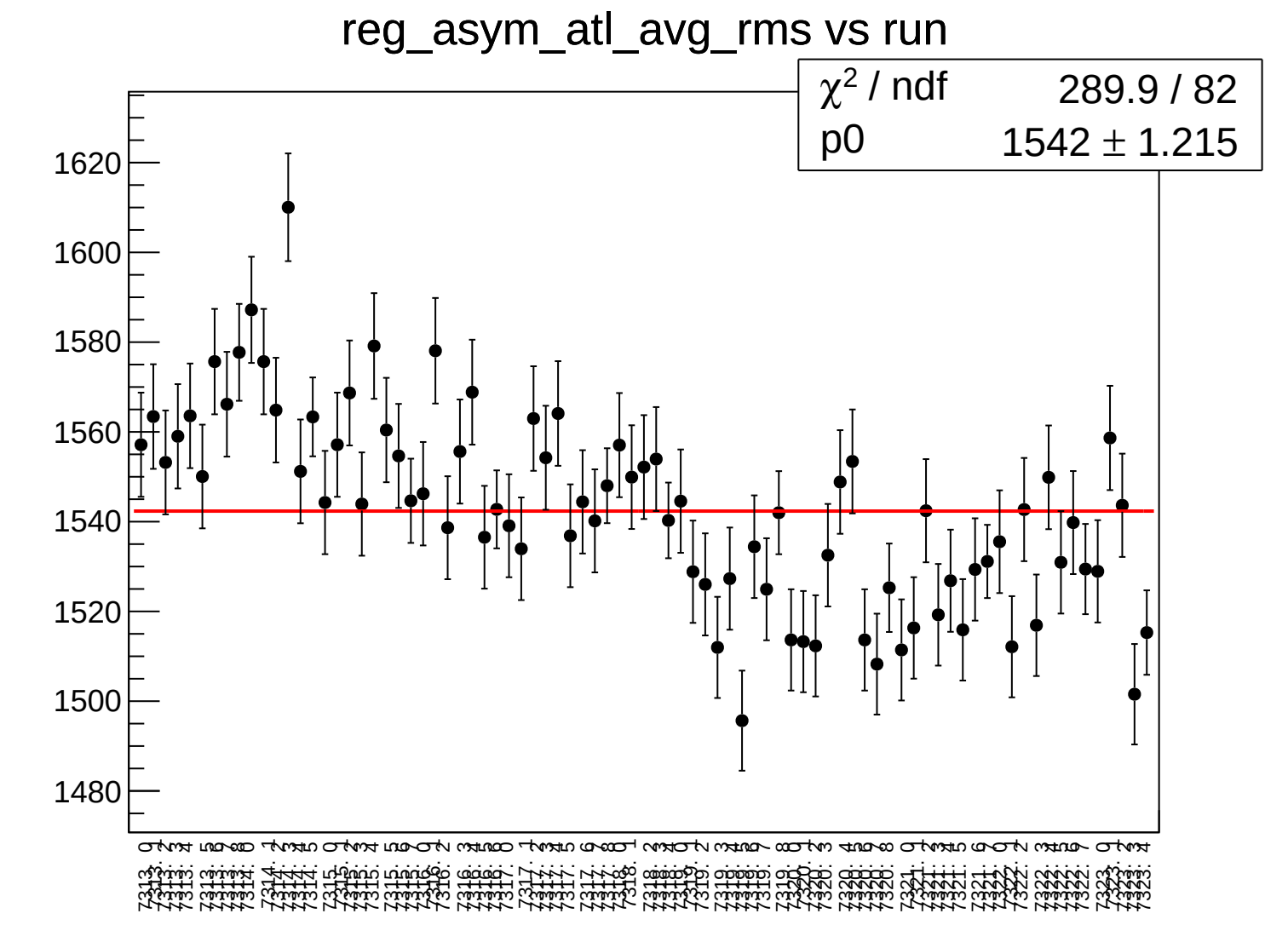

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 82
p0 428.7 ± 0.3566
1200
1000
800
600
400

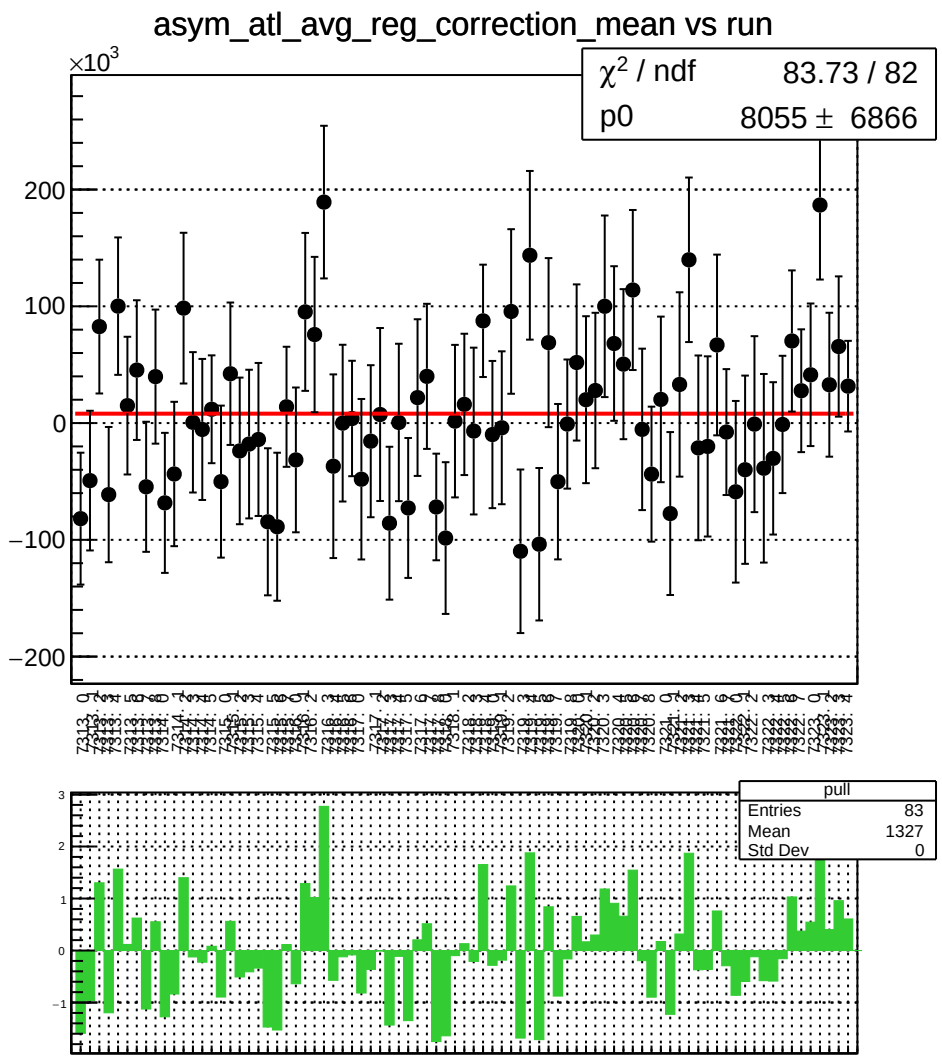

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.74 / 82
p0 6.747e−16 ± 1.918e−13
pull
Entries 83
Mean −14.85
Std Dev 60.36
pull1D
Entries 83
Mean −0.01059
Std Dev 0.9862

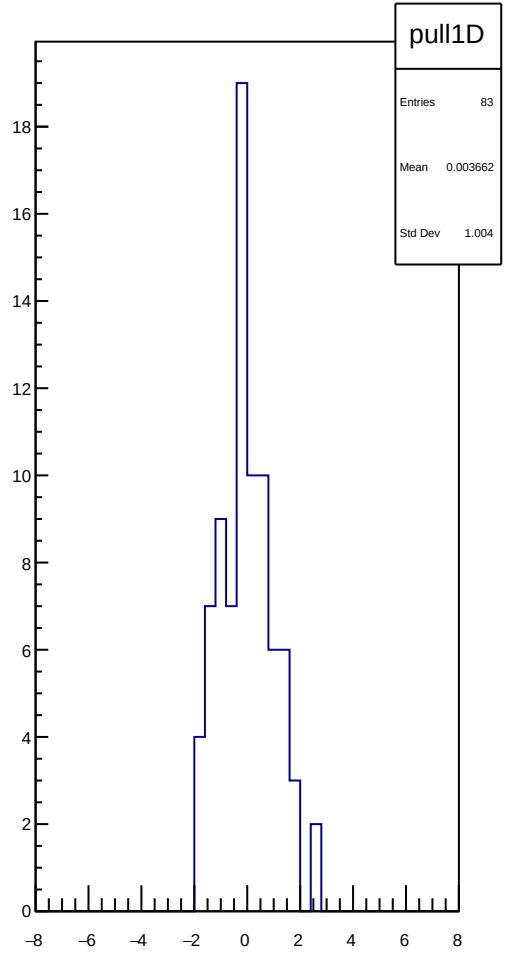

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.479e+05 / 82
p0 1.331e−10 ± 1.356e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

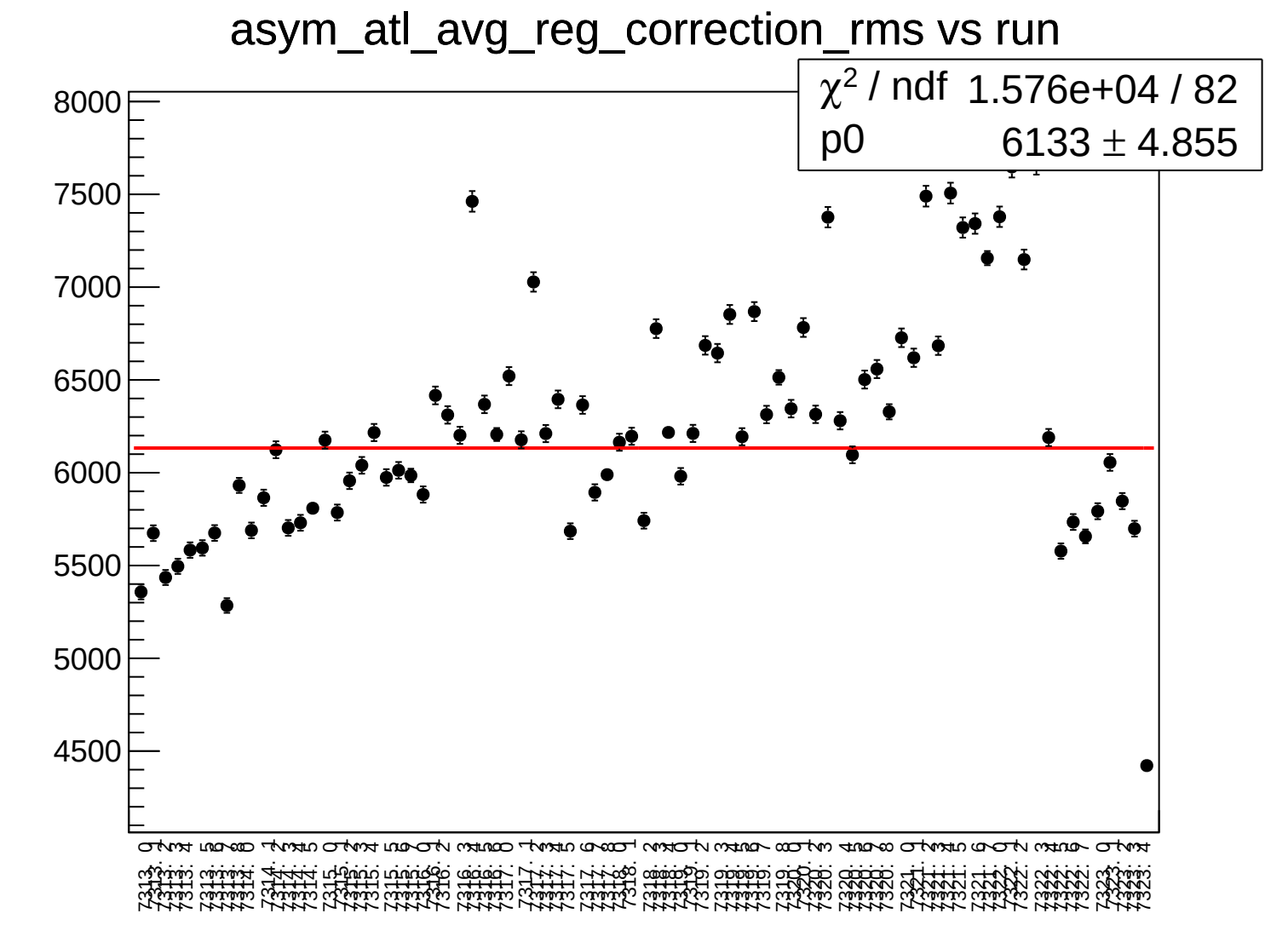

reg_asym_atl_avg_mean vs run
χ² / ndf 78.57 / 82
p0 1710 ± 1718
pull
Entries 83
Mean 146.4
Std Dev 0

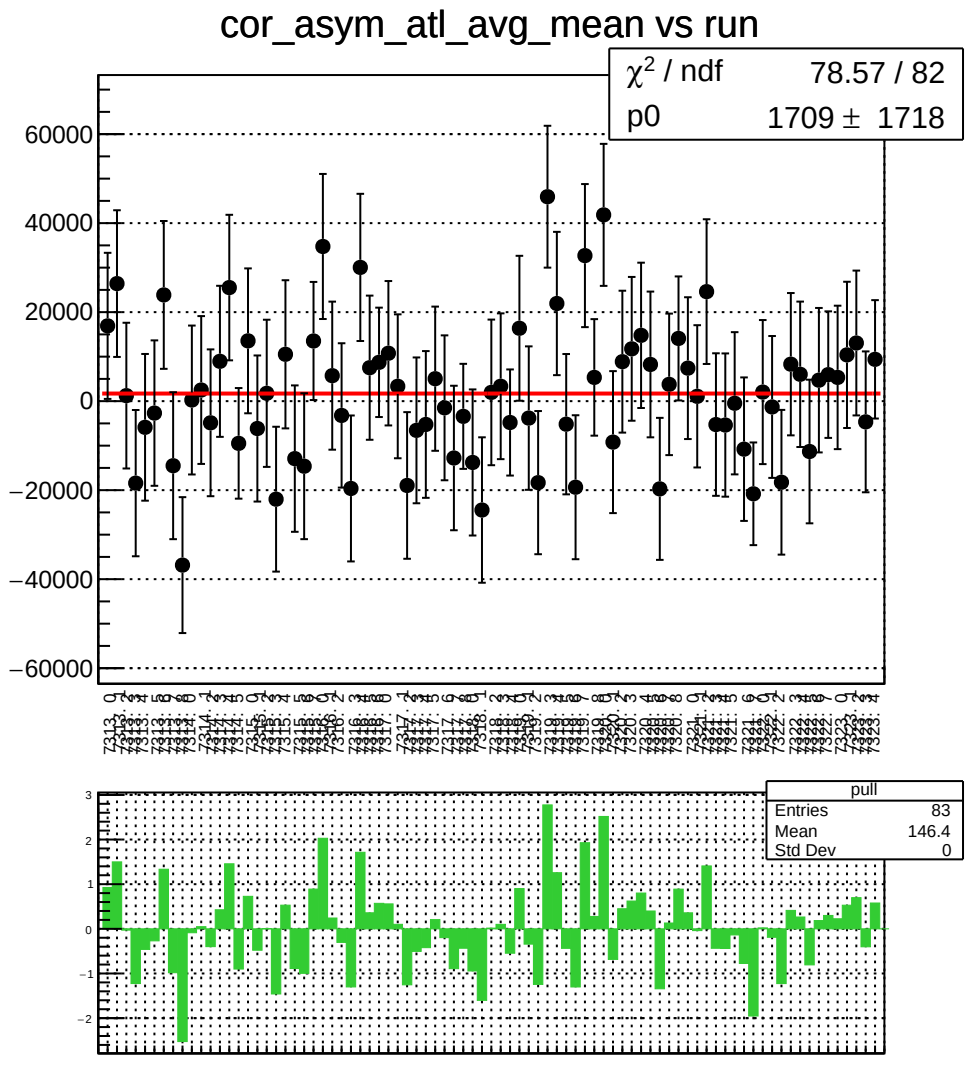

pull1D
Entries 83
Mean 0.009713
Std Dev 0.9729

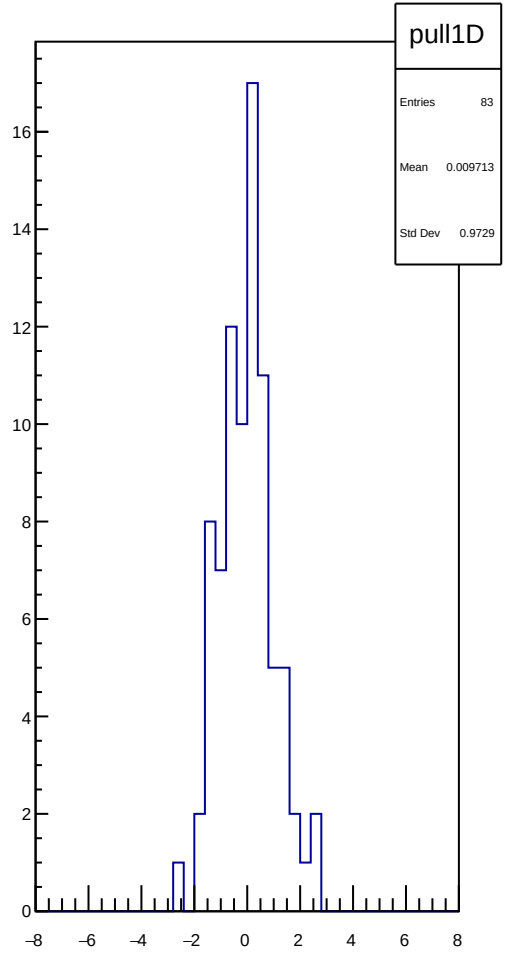

reg_asym_atl_avg_rms vs run
χ^2 / ndf 289.9 / 82
p0 1542 ± 1.215
1620
1600
1580
1560
1540
1520
1500
1480

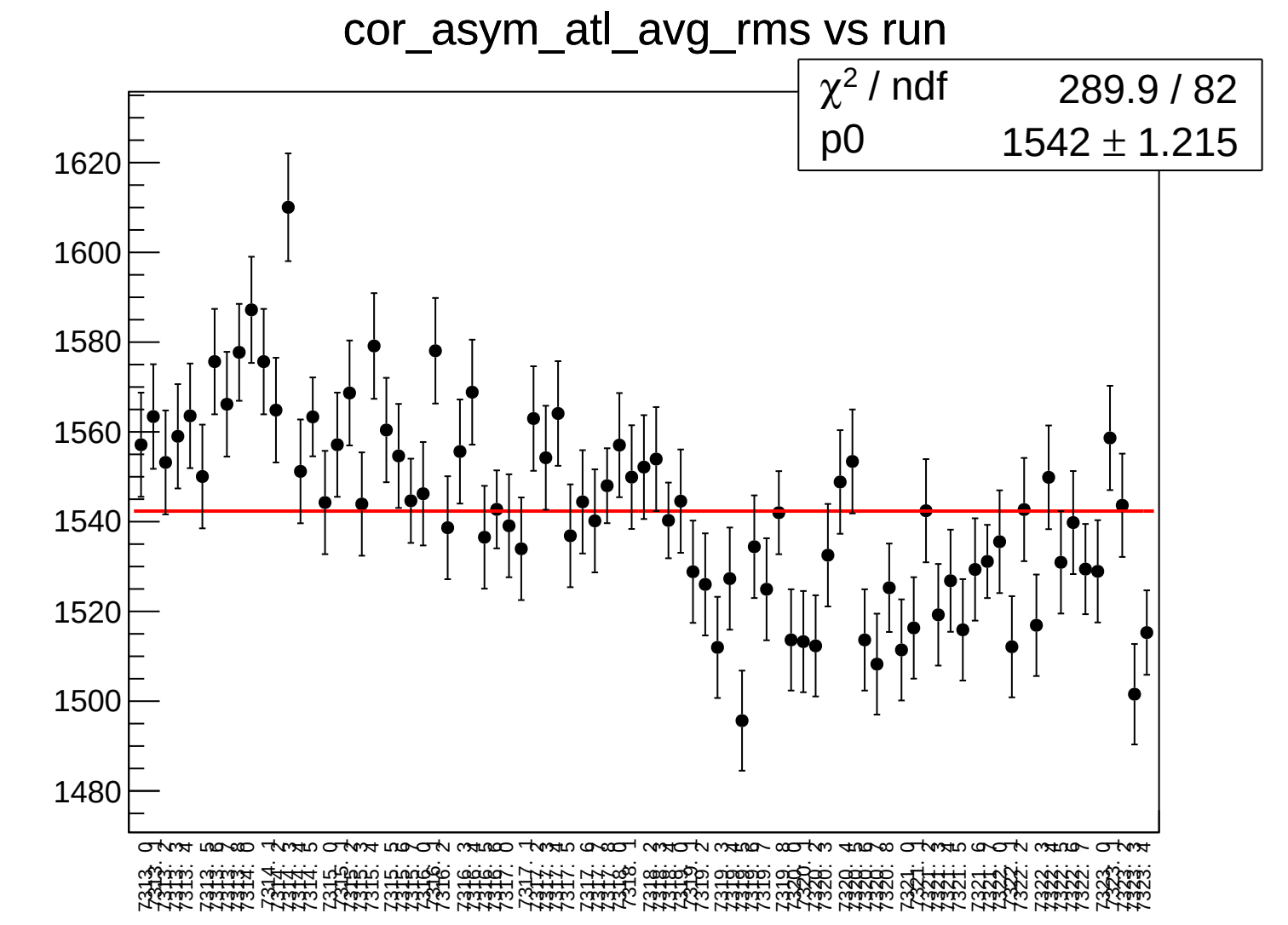

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.73 / 82
p0 8055 ± 6866
200
100
0
−100
−200
pull
Entries 83
Mean 1327
Std Dev 0
3
2
1
0
−1

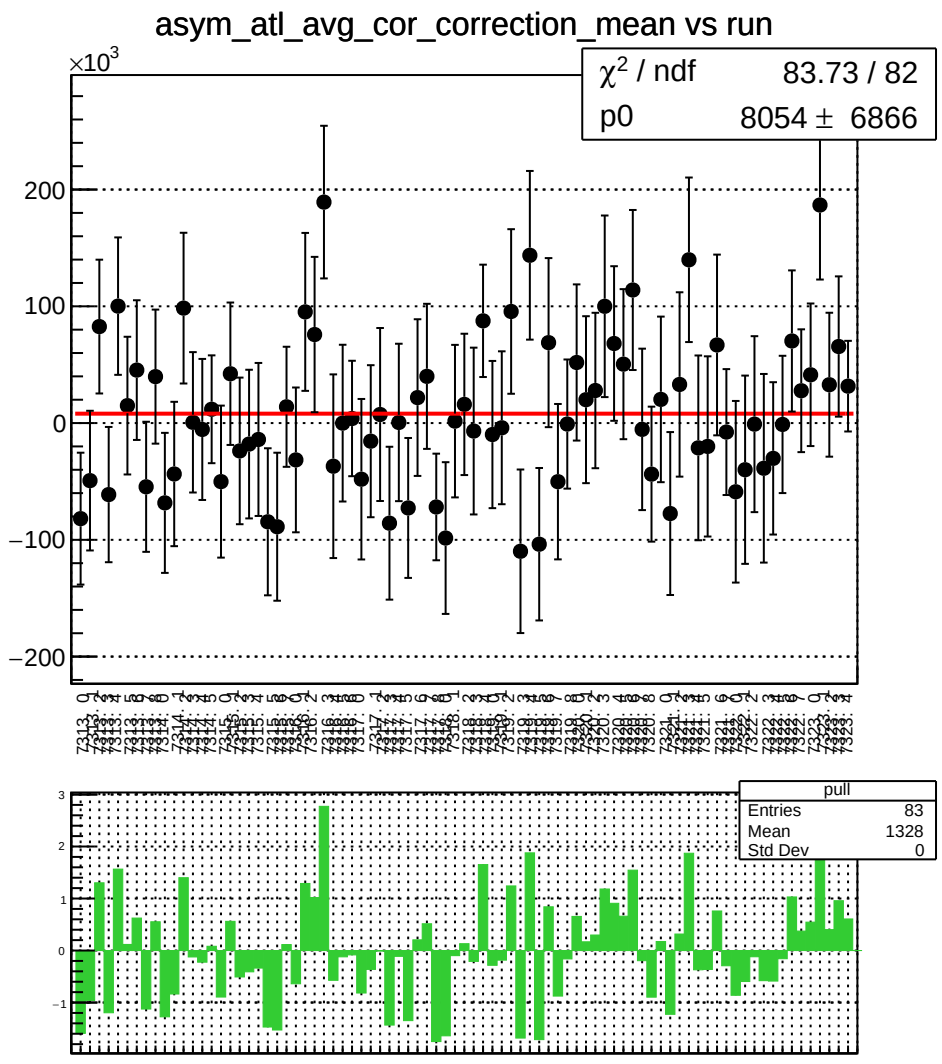

pull1D
Entries 83
Mean 0.003662
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

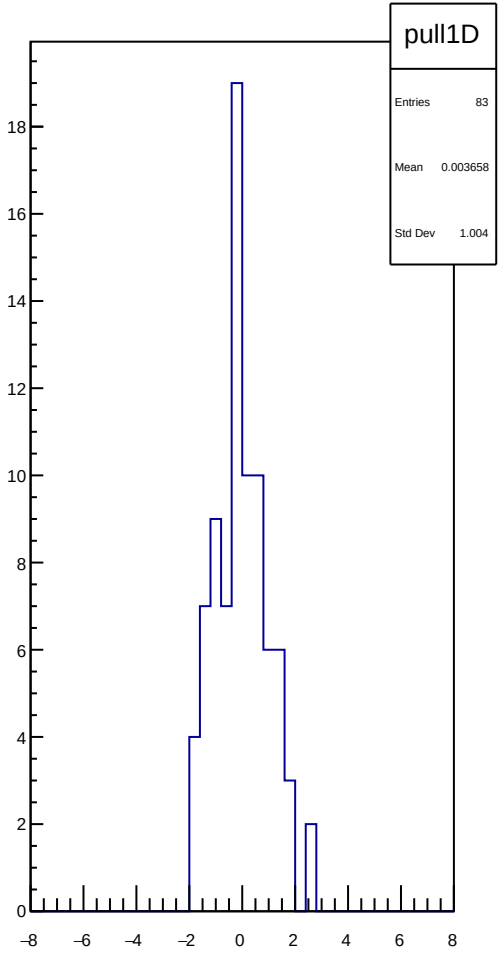

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.576e+04 / 82
p0 6133 ± 4.855
8000
7500
7000
6500
6000
5500
5000
4500

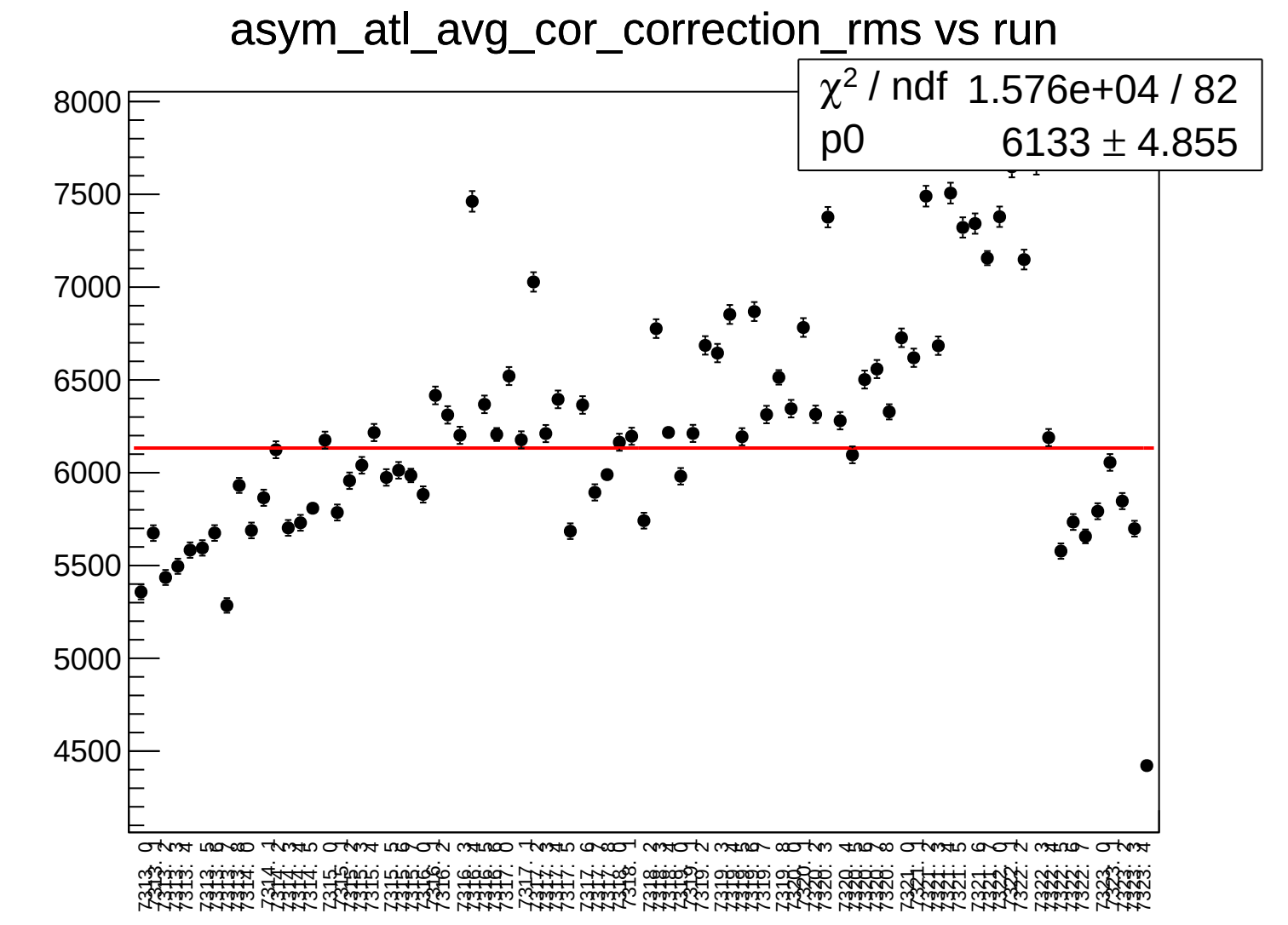

cor_asym_atl_avg_mean vs run
χ² / ndf 78.57 / 82
p0 1709 ± 1718
pull
Entries 83
Mean 146.4
Std Dev 0

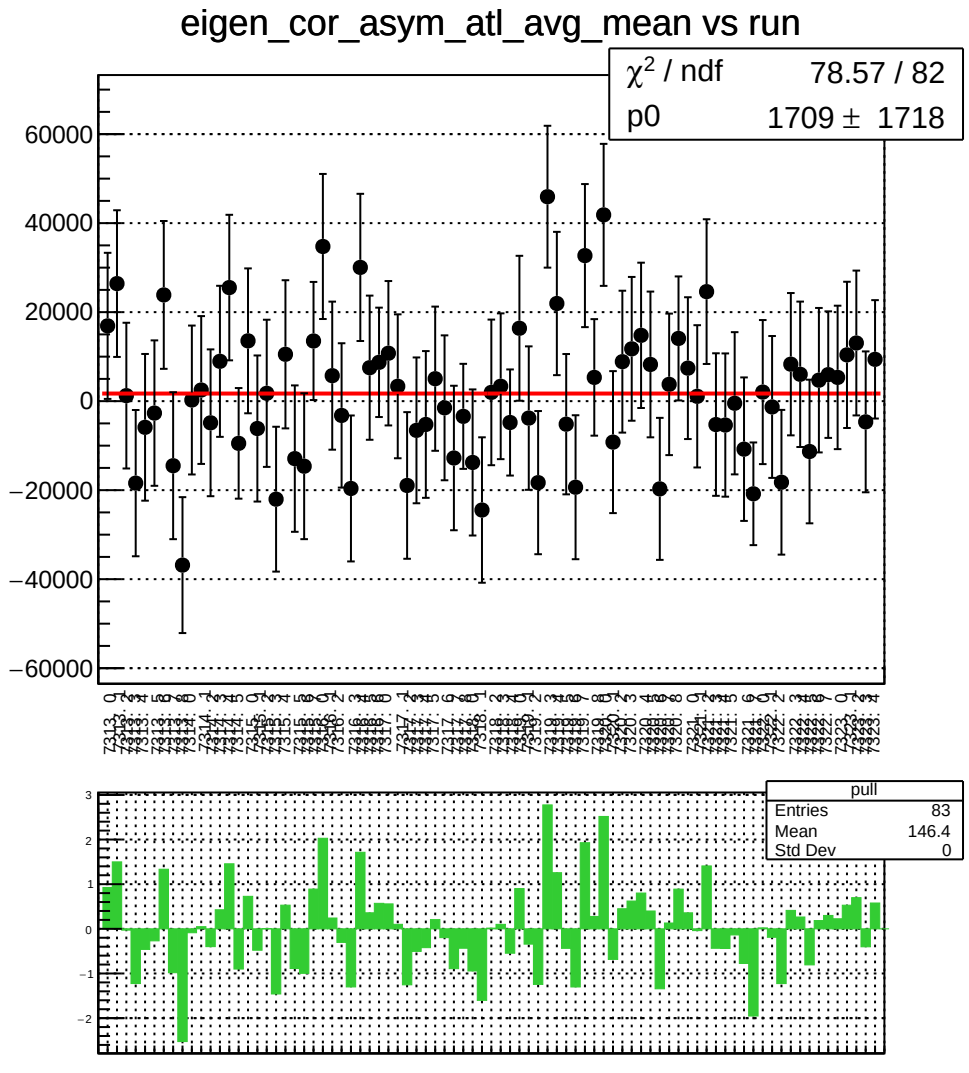

pull1D
Entries 83
Mean 0.009713
Std Dev 0.9729

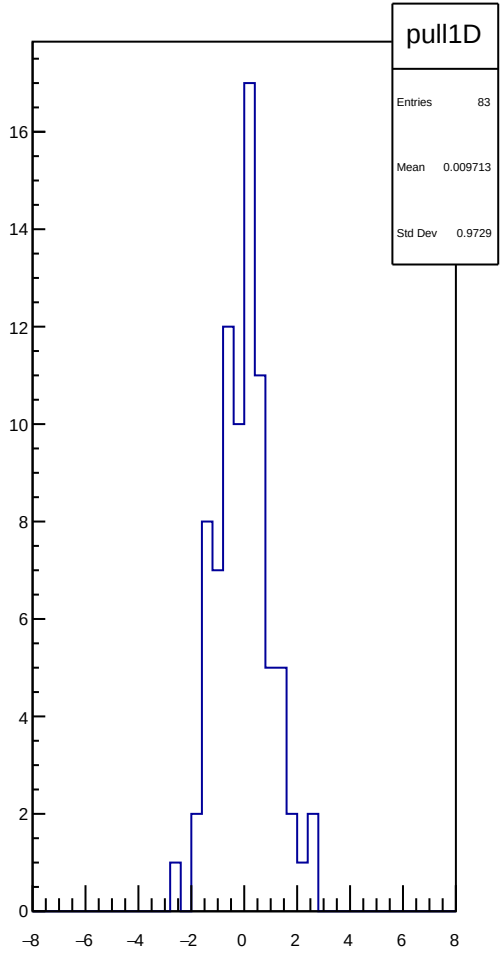

cor_asym_atl_avg_rms vs run
χ² / ndf 289.9 / 82
p0 1542 ± 1.215
1620
1600
1580
1560
1540
1520
1500
1480

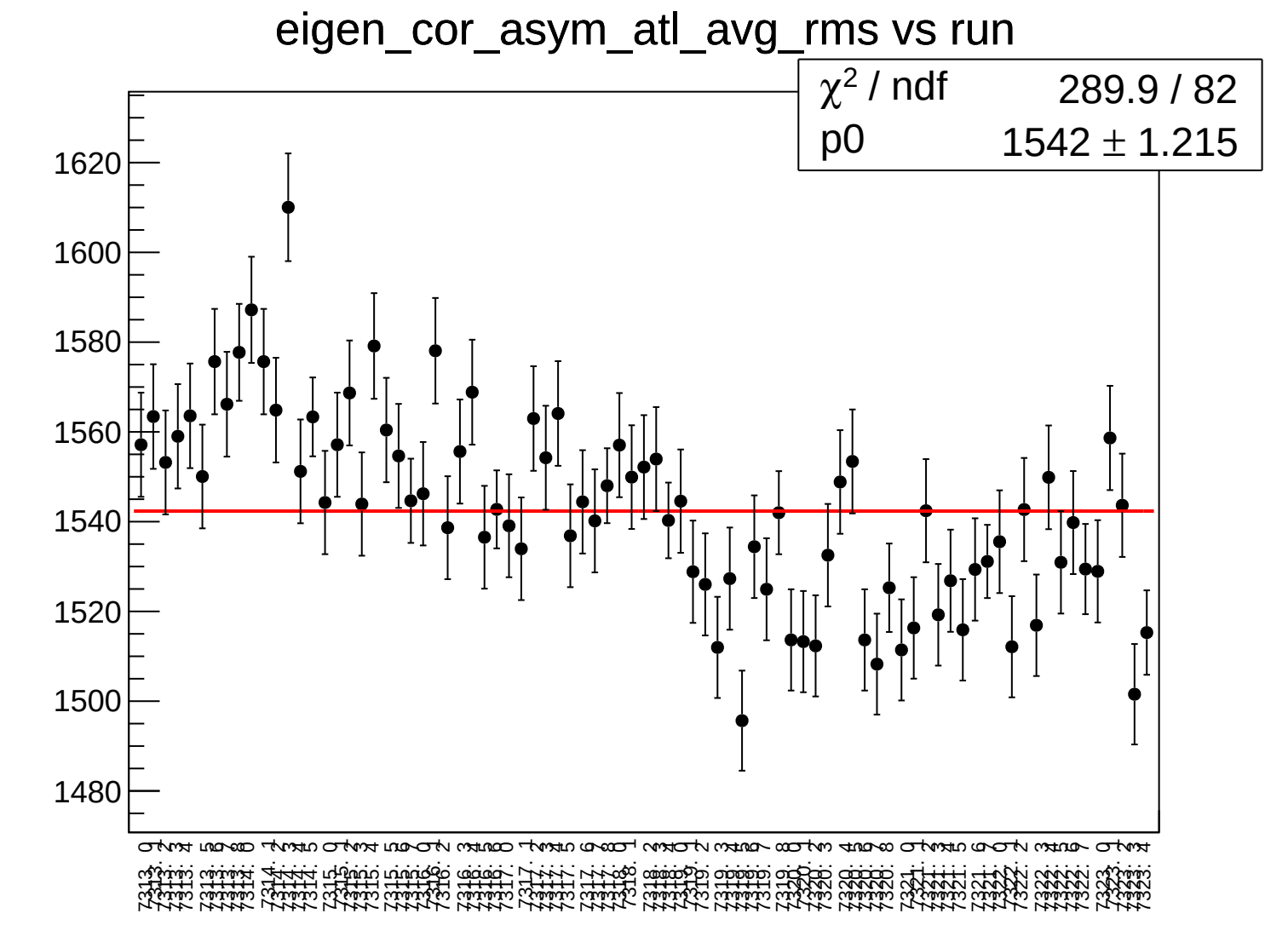

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.73 / 82
p0 8054 ± 6866
200
100
0
−100
−200
pull
Entries 83
Mean 1328
Std Dev 0
3
2
1
0
−1

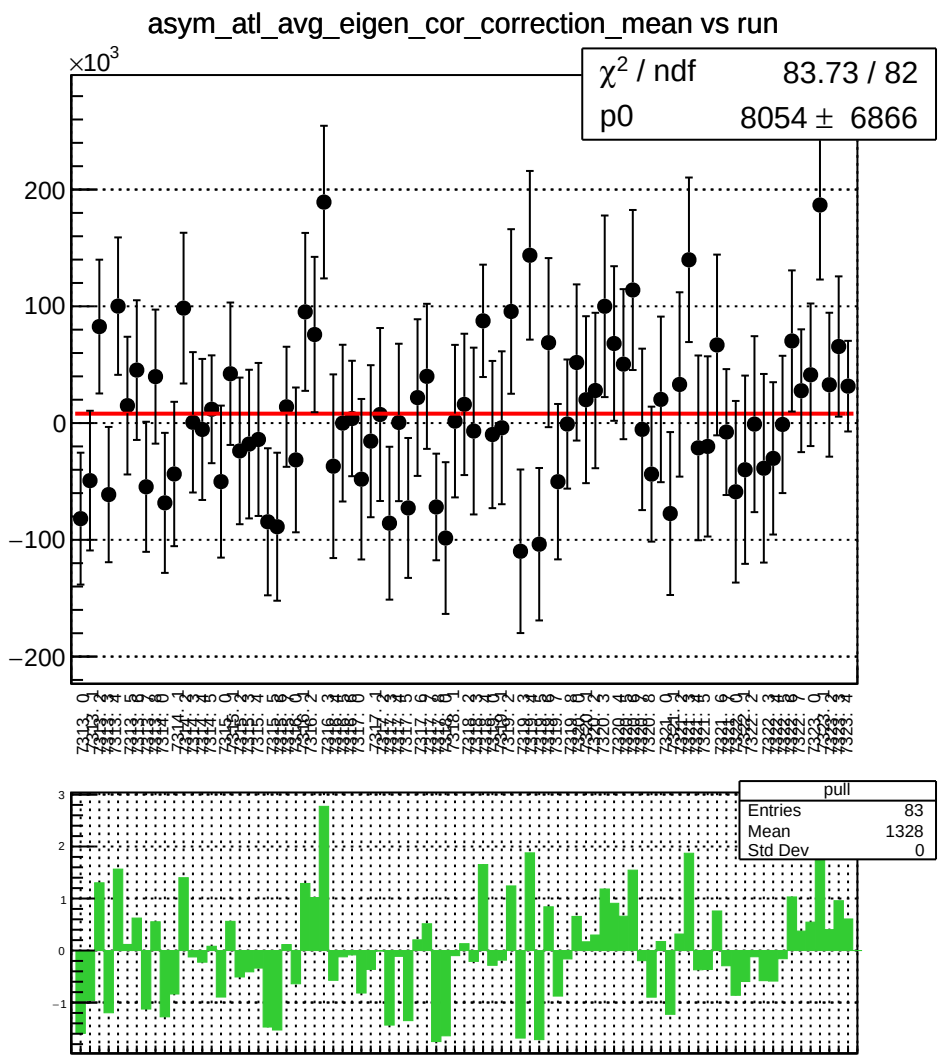

pull1D
Entries 83
Mean 0.003658
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

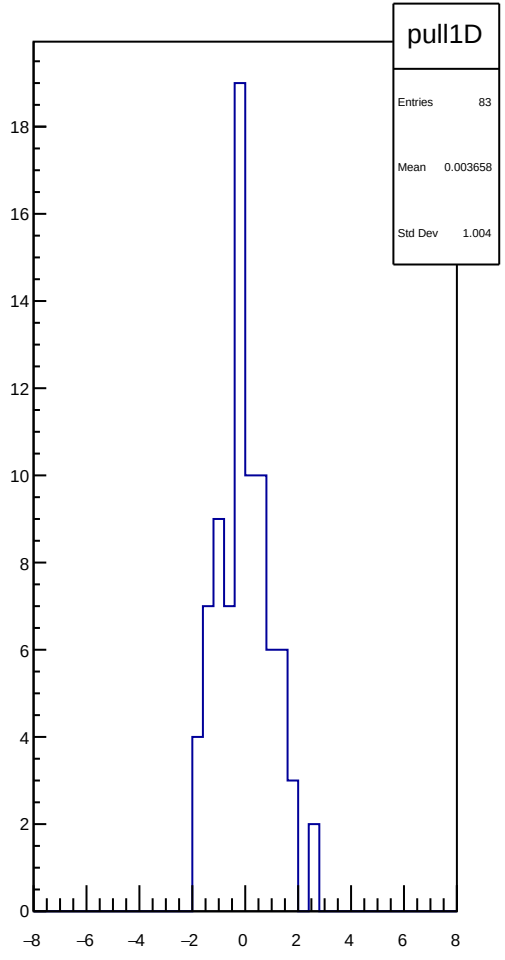

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.576e+04 / 82
p0 6133 ± 4.855
8000
7500
7000
6500
6000
5500
5000
4500


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 78.57 / 82
p0 1709 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 146.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 83
Mean 0.009713
Std Dev 0.9729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 289.9 / 82
p0 1542 ± 1.215
1620
1600
1580
1560
1540
1520
1500
1480


asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.73 / 82
p0 8054 ± 6866
200
100
0
−100
−200
pull
Entries 83
Mean 1328
Std Dev 0
3
2
1
0
−1


pull1D
Entries 83
Mean 0.003658
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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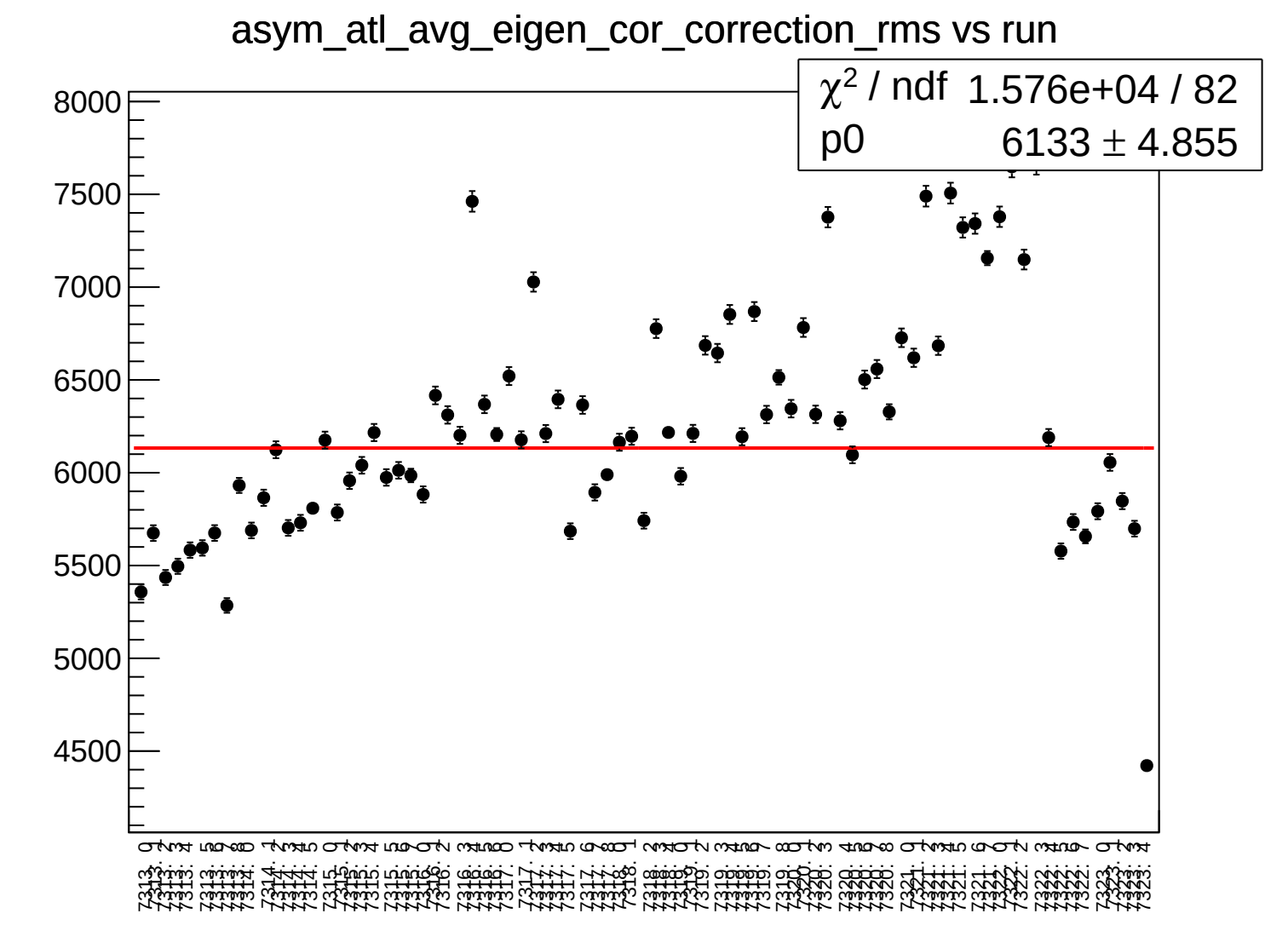
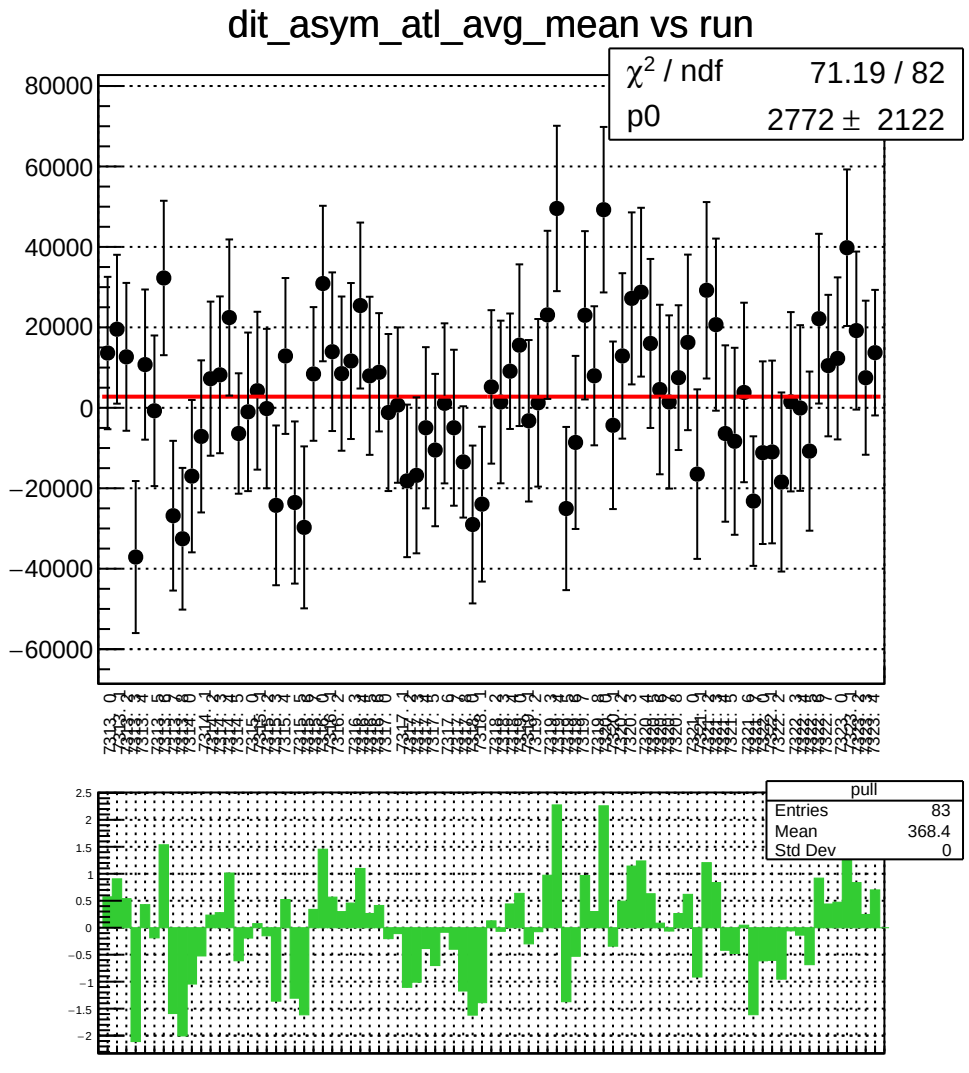
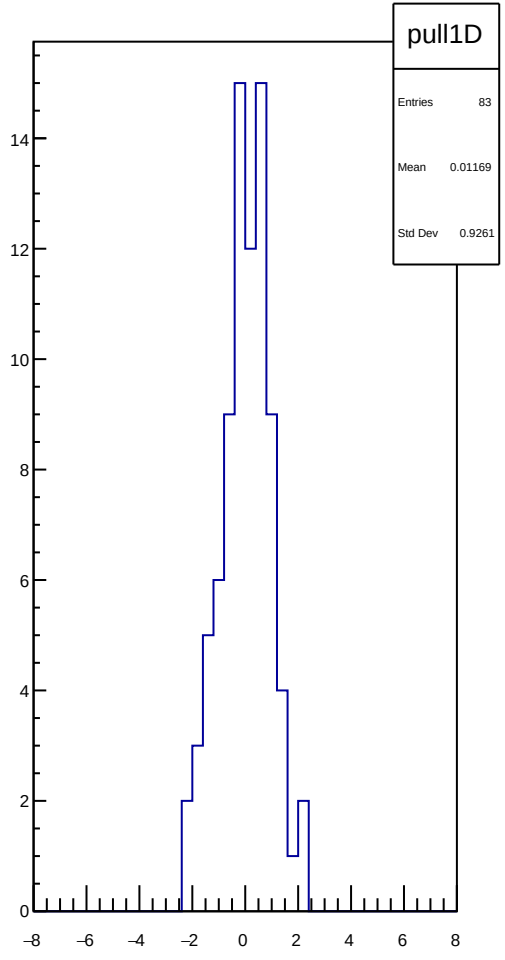
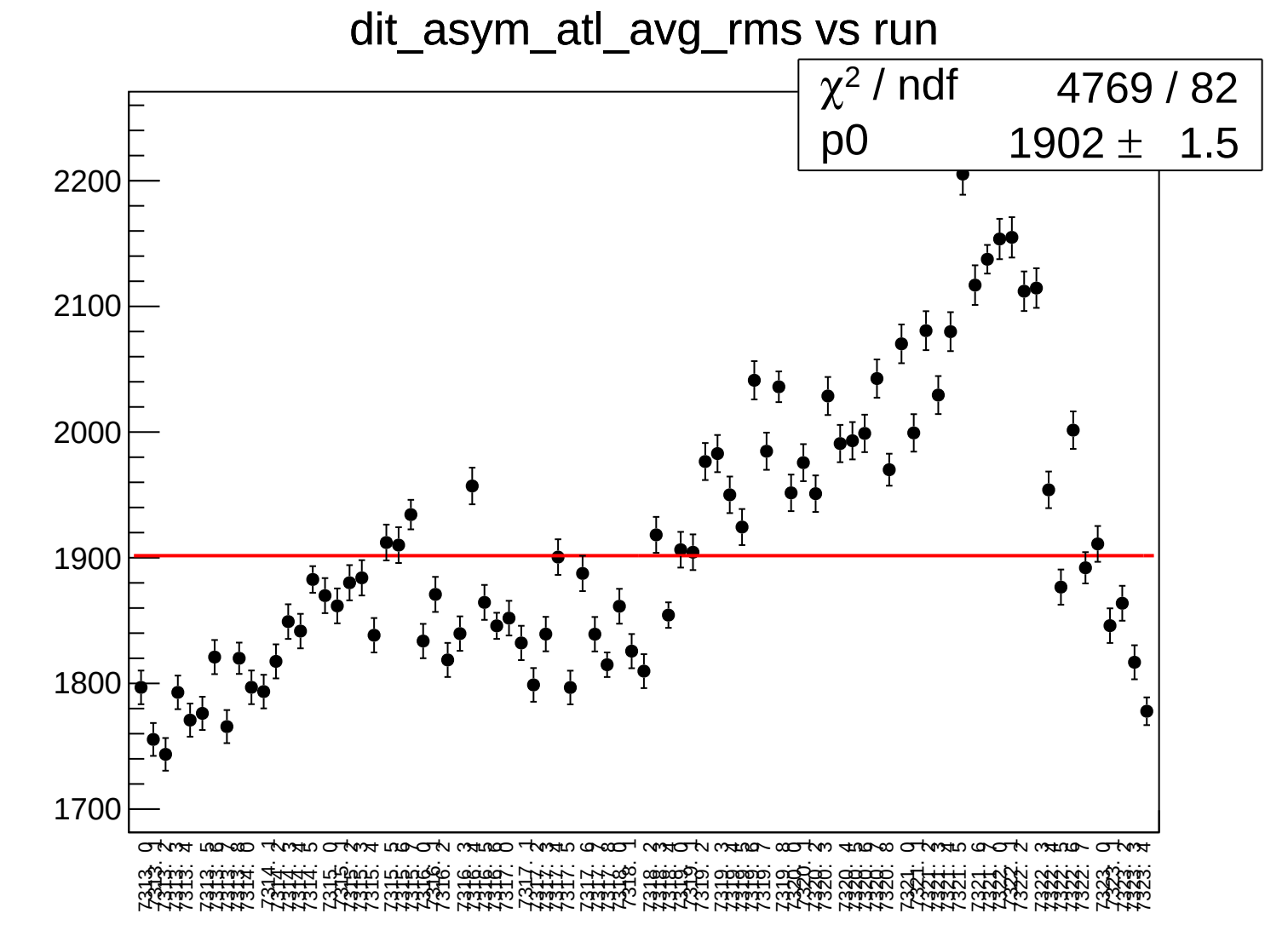
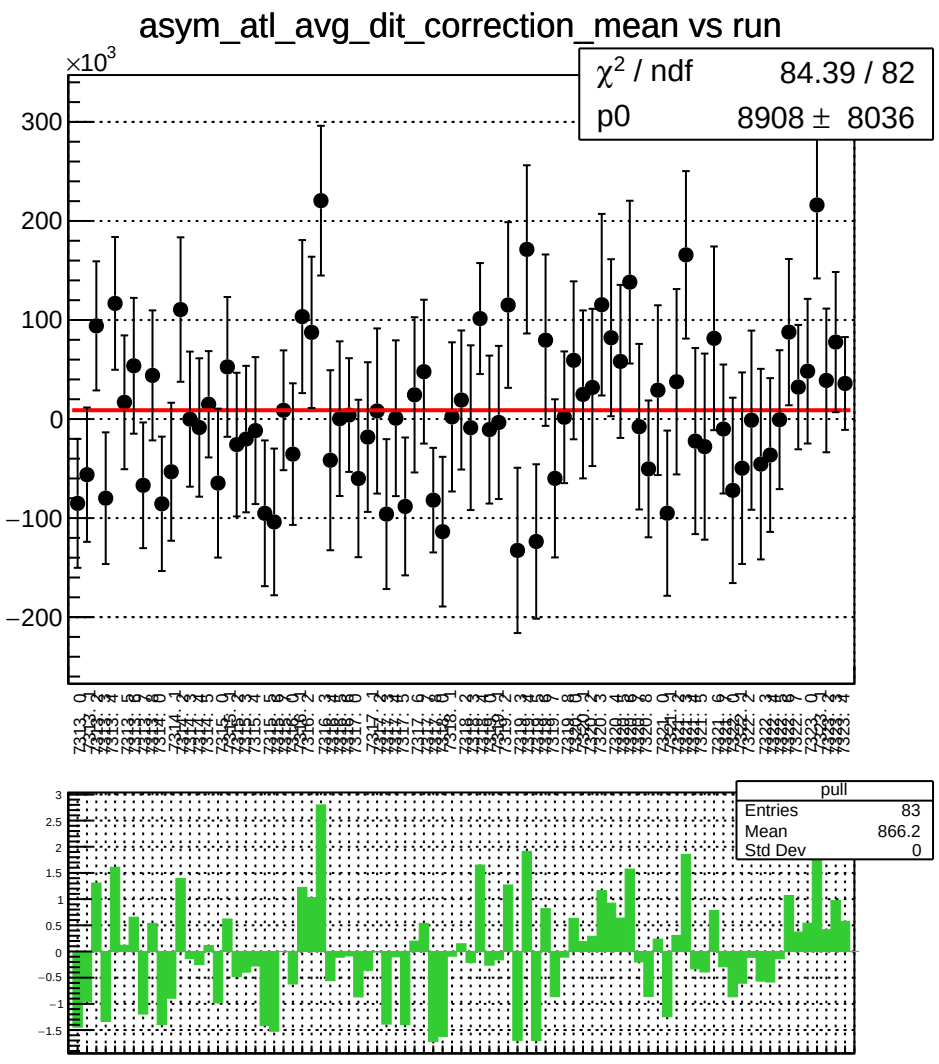
0
2
4
6
8

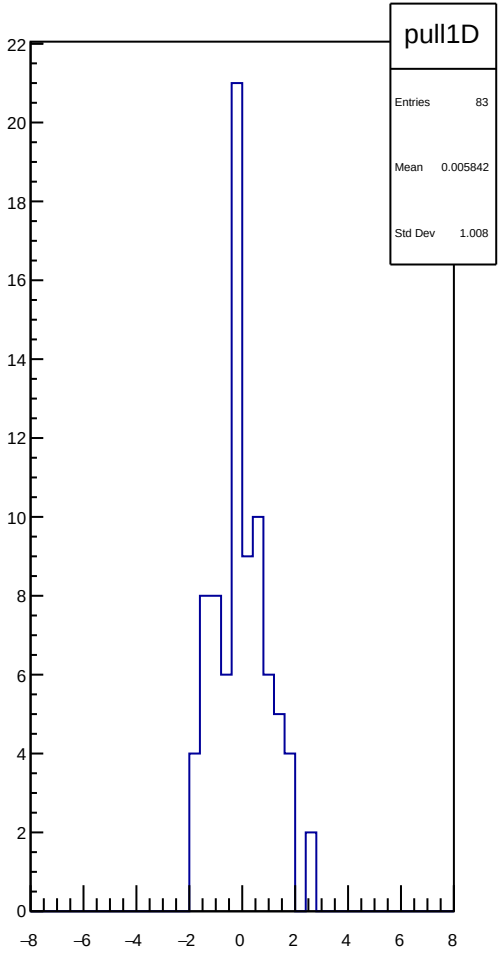

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.576e+04 / 82
p0 6133 ± 4.855
8000
7500
7000
6500
6000
5500
5000
4500

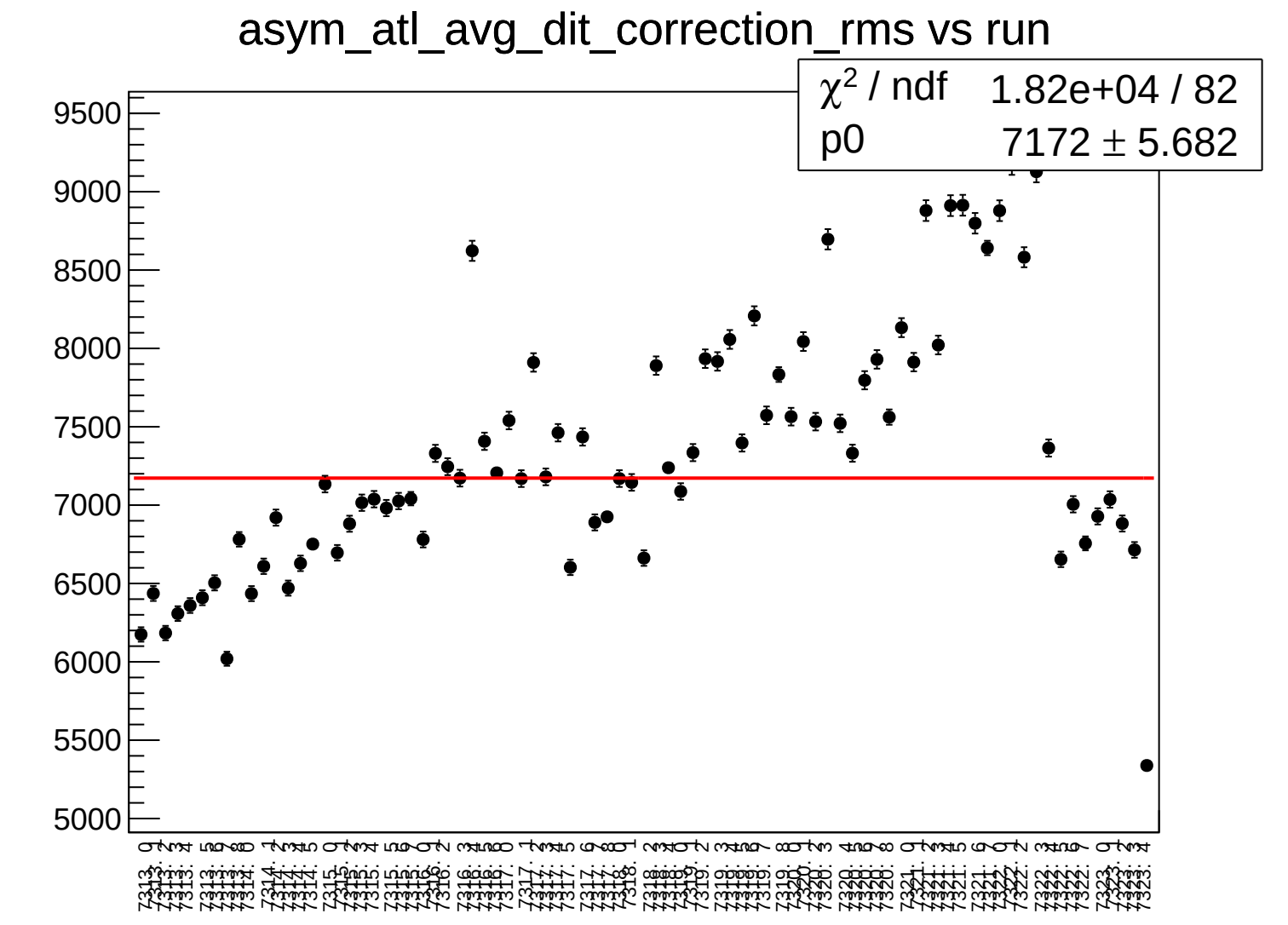

dit_asym_atl_avg_mean vs run
χ² / ndf 71.19 / 82
p0 2772 ± 2122
pull
Entries 83
Mean 368.4
Std Dev 0

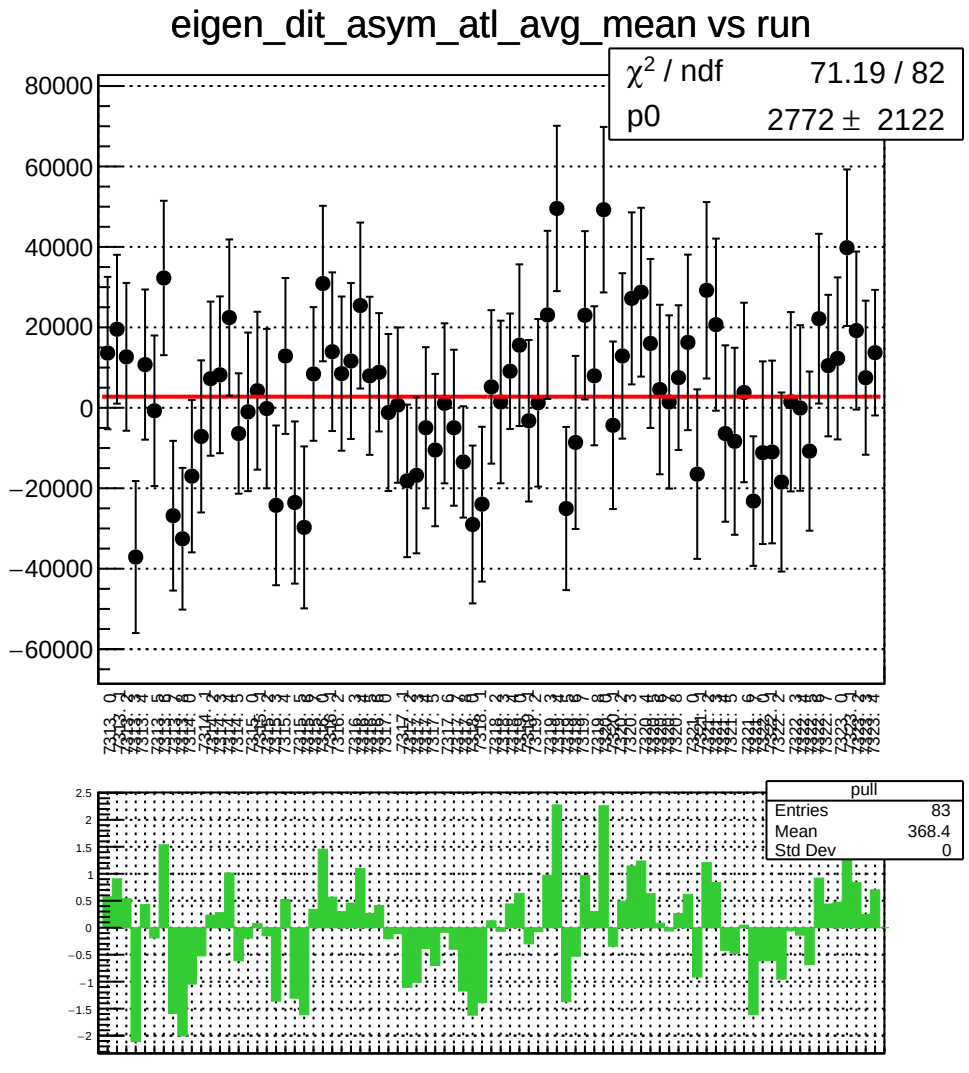

pull1D
Entries 83
Mean 0.01169
Std Dev 0.9261

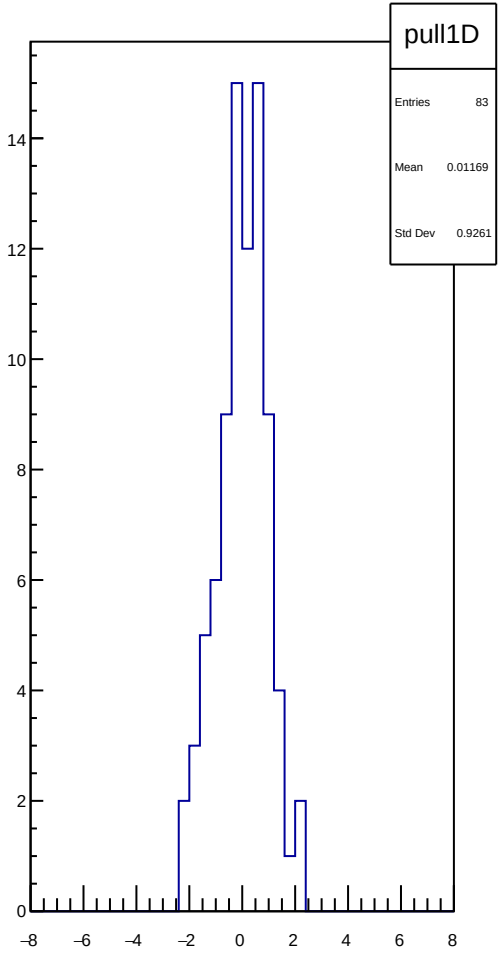

dit_asym_atl_avg_rms vs run
χ² / ndf 4769 / 82
p0 1902 ± 1.5
2200
2100
2000
1900
1800
1700

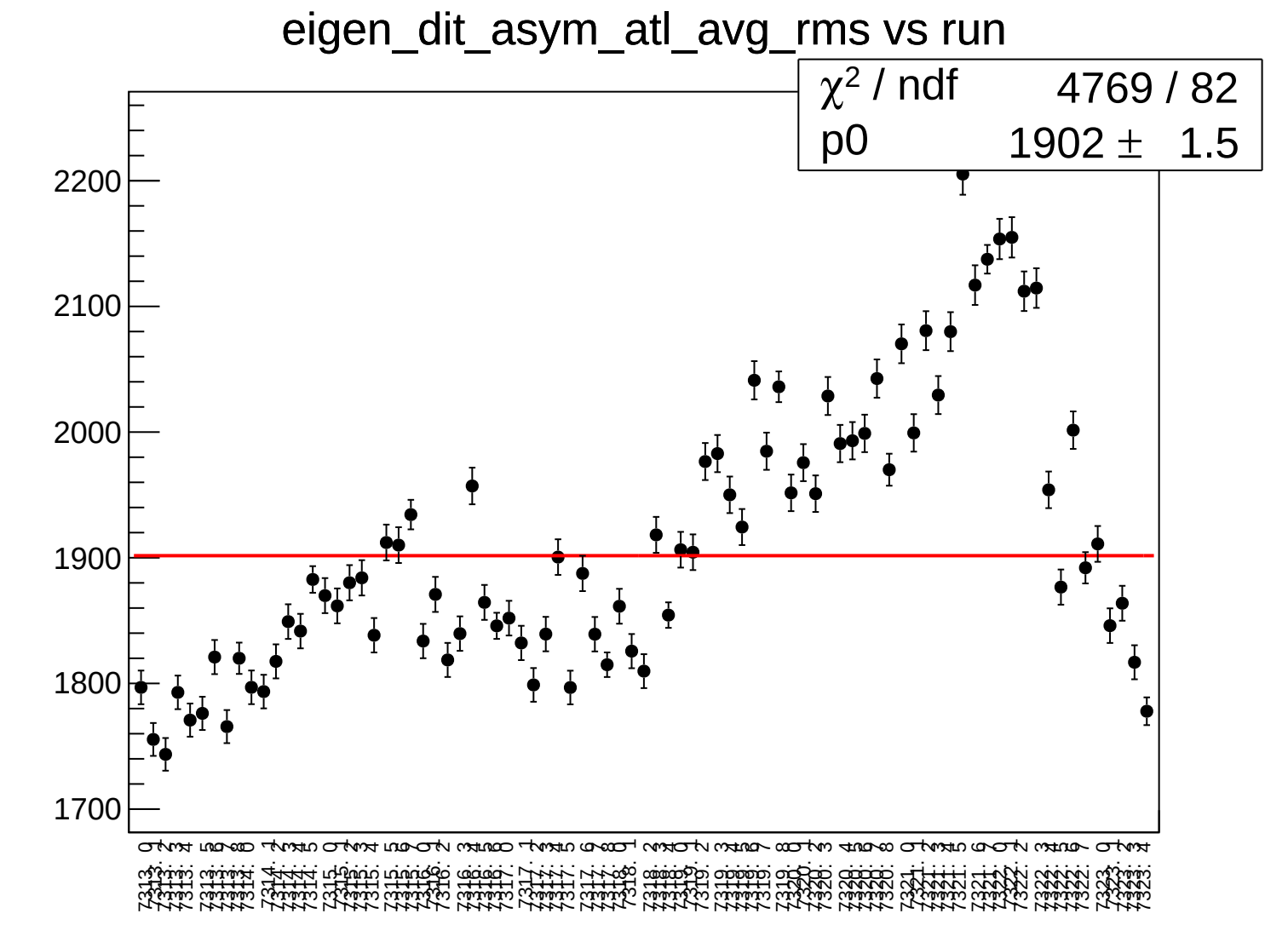

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.39 / 82
p0 8908 ± 8036
pull
Entries 83
Mean 866.2
Std Dev 0

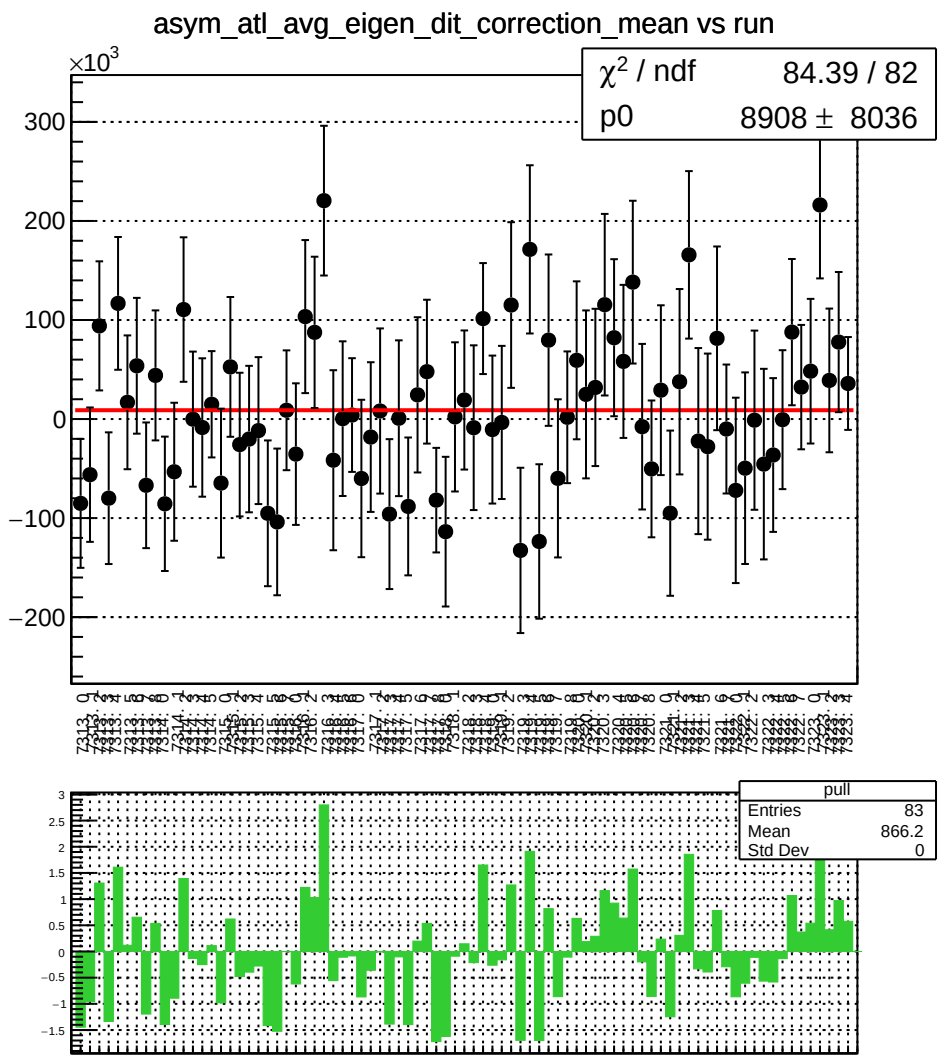

pull1D
Entries 83
Mean 0.005842
Std Dev 1.008

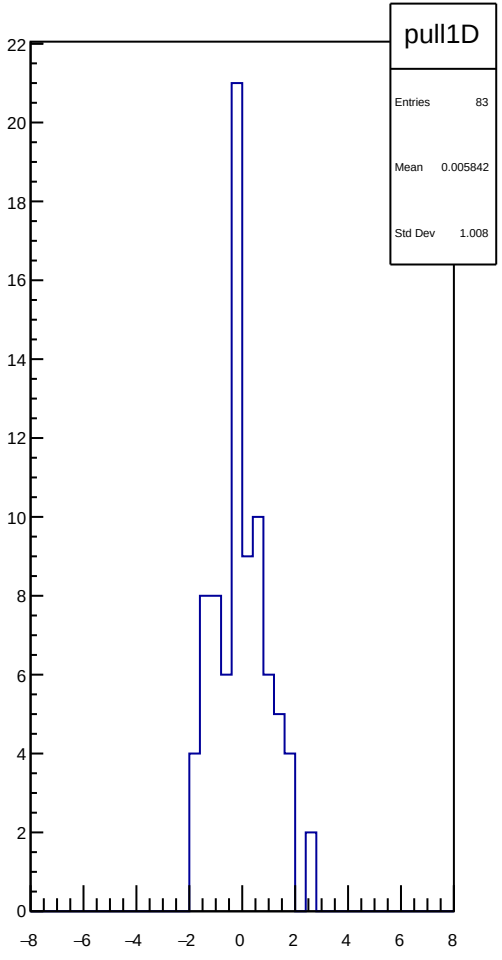

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 7172 ± 5.682
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

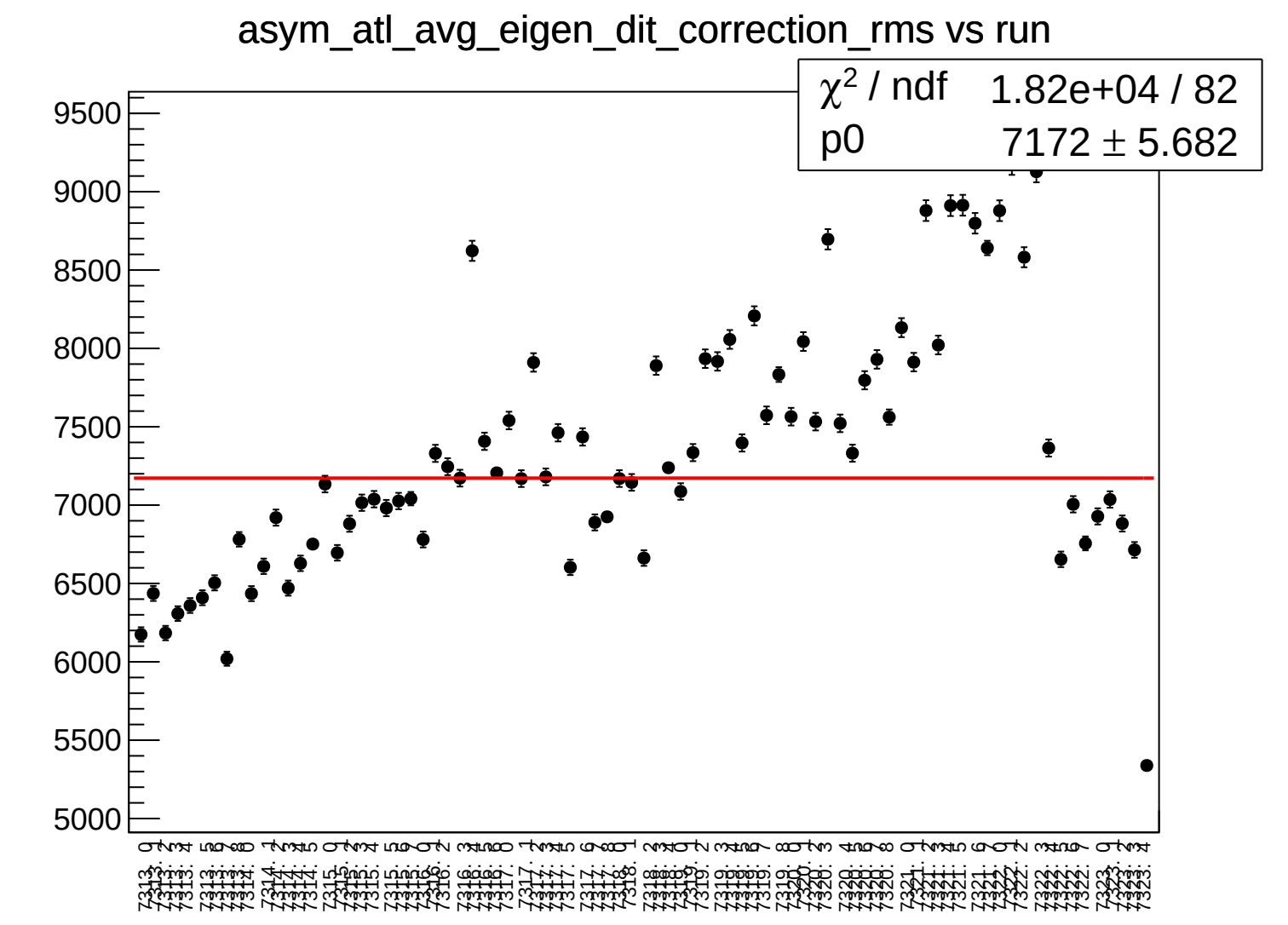

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 71.19 / 82
p0 2772 ± 2122
pull
Entries 83
Mean 368.4
Std Dev 0

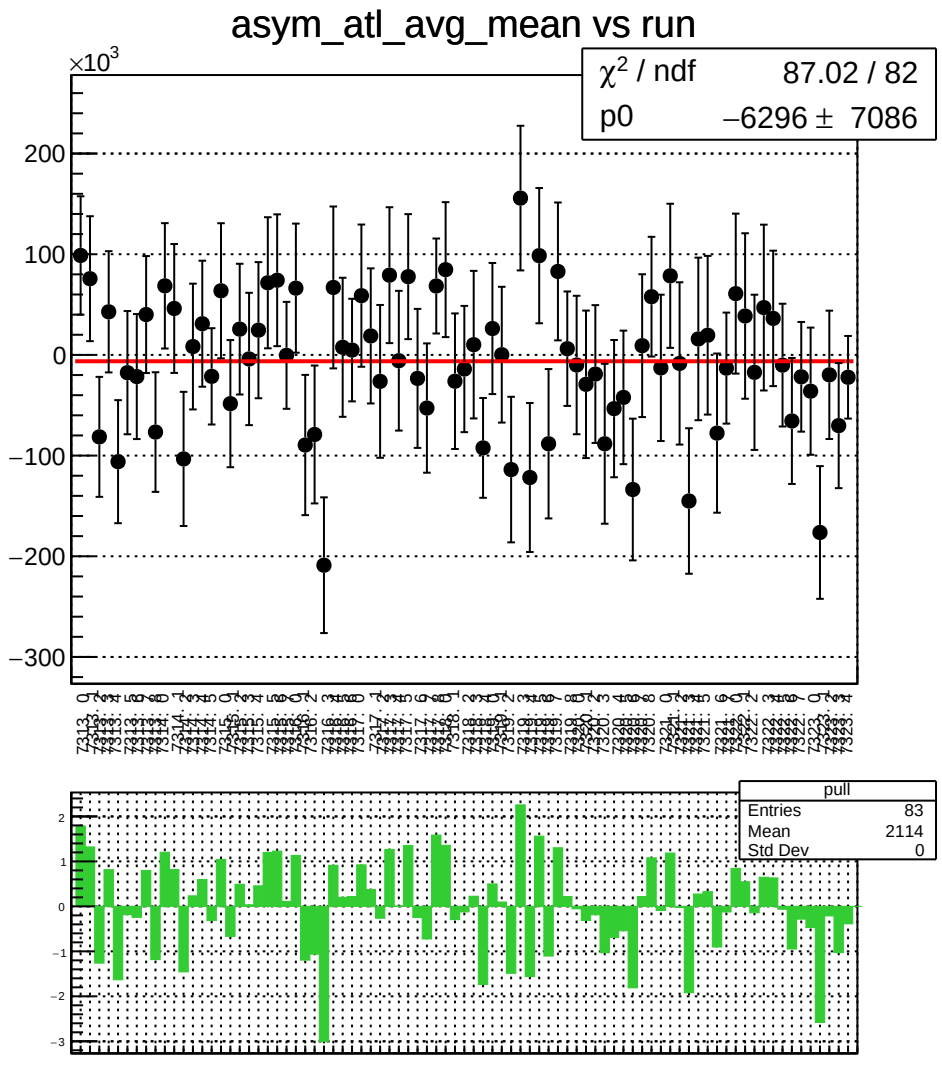

pull1D
Entries 83
Mean 0.01169
Std Dev 0.9261

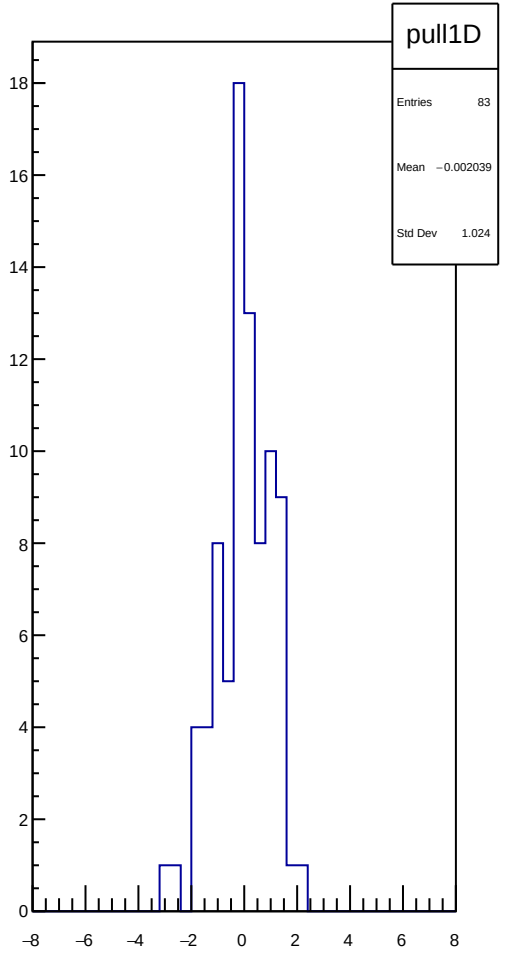

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 4769 / 82
p0 1902 ± 1.5
2200
2100
2000
1900
1800
1700

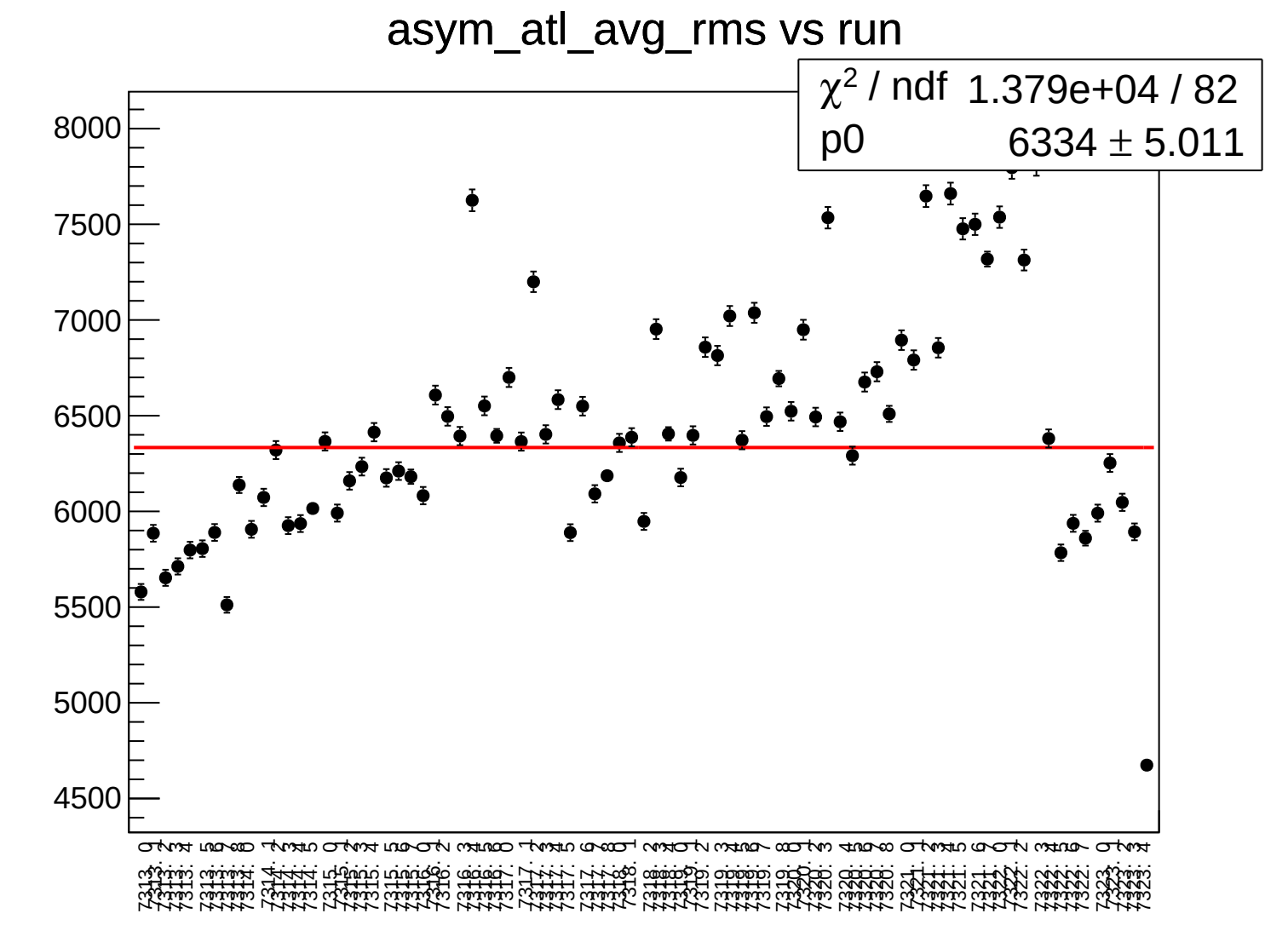

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.39 / 82
p0 8908 ± 8036
pull
Entries 83
Mean 866.2
Std Dev 0

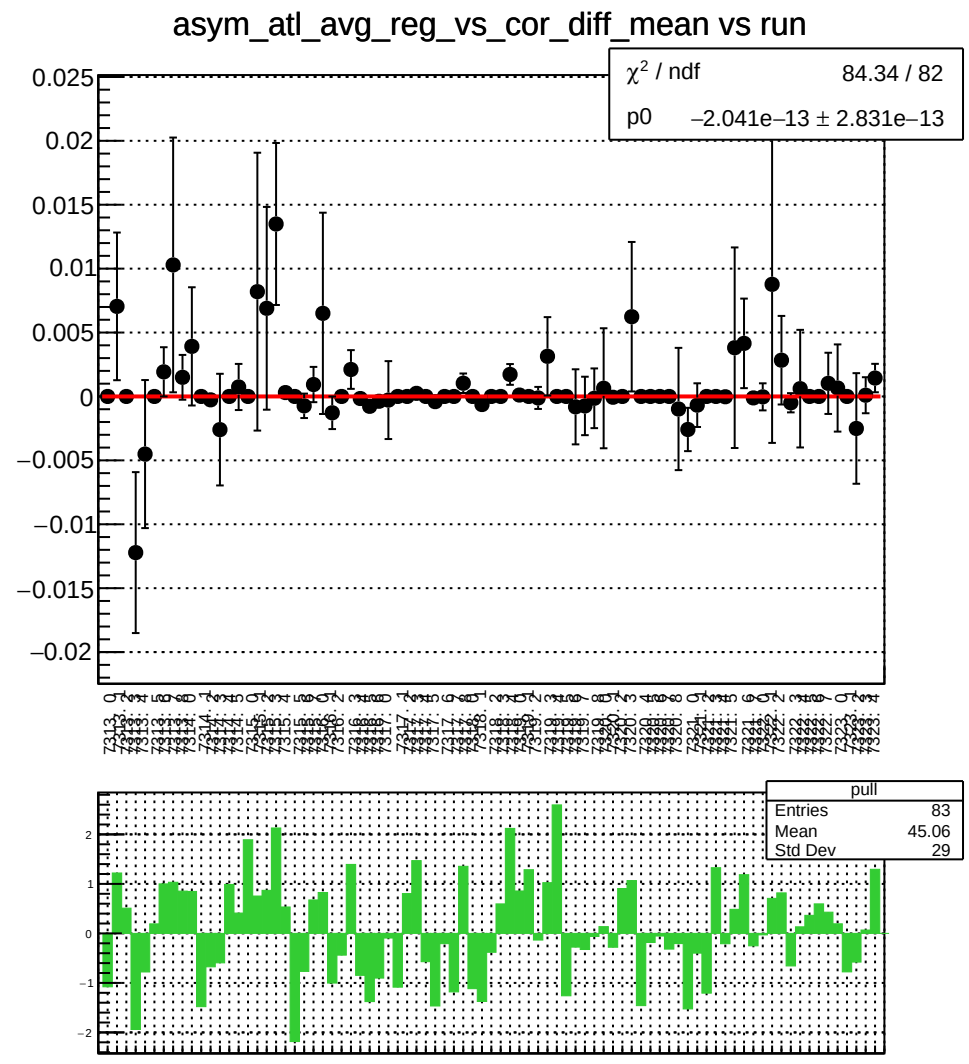

pull1D
Entries 83
Mean 0.005842
Std Dev 1.008

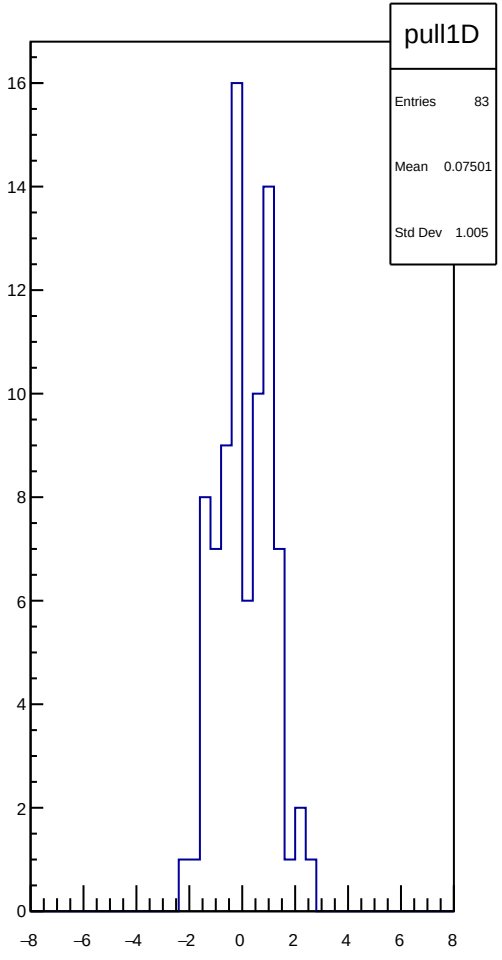

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 7172 ± 5.682
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

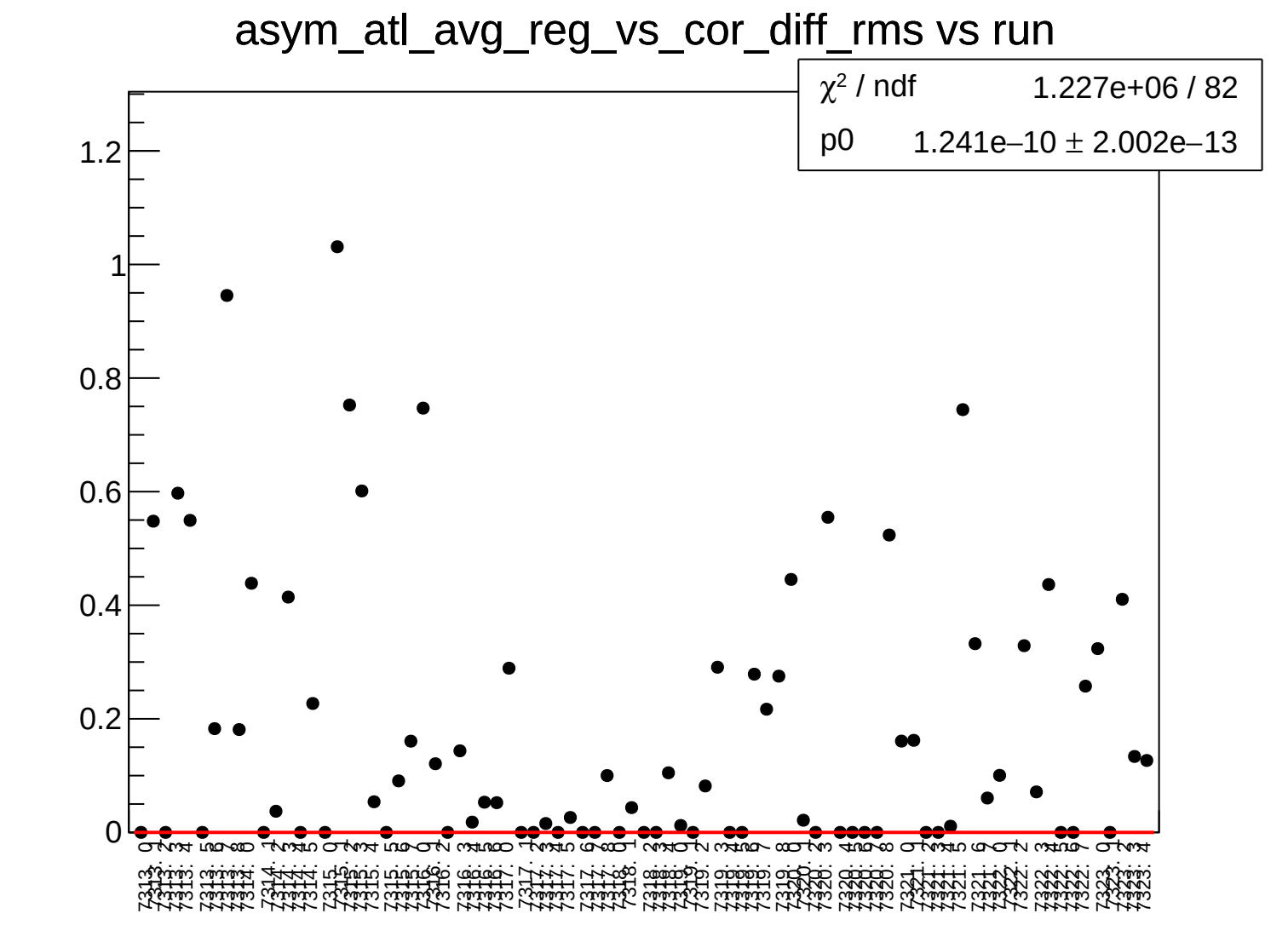

asym_atl_avg_mean vs run
×10^3
χ² / ndf 87.02 / 82
p0 −6296 ± 7086
200
100
0
−100
−200
−300
pull
Entries 83
Mean 2114
Std Dev 0
2
1
0
−1
−2
−3

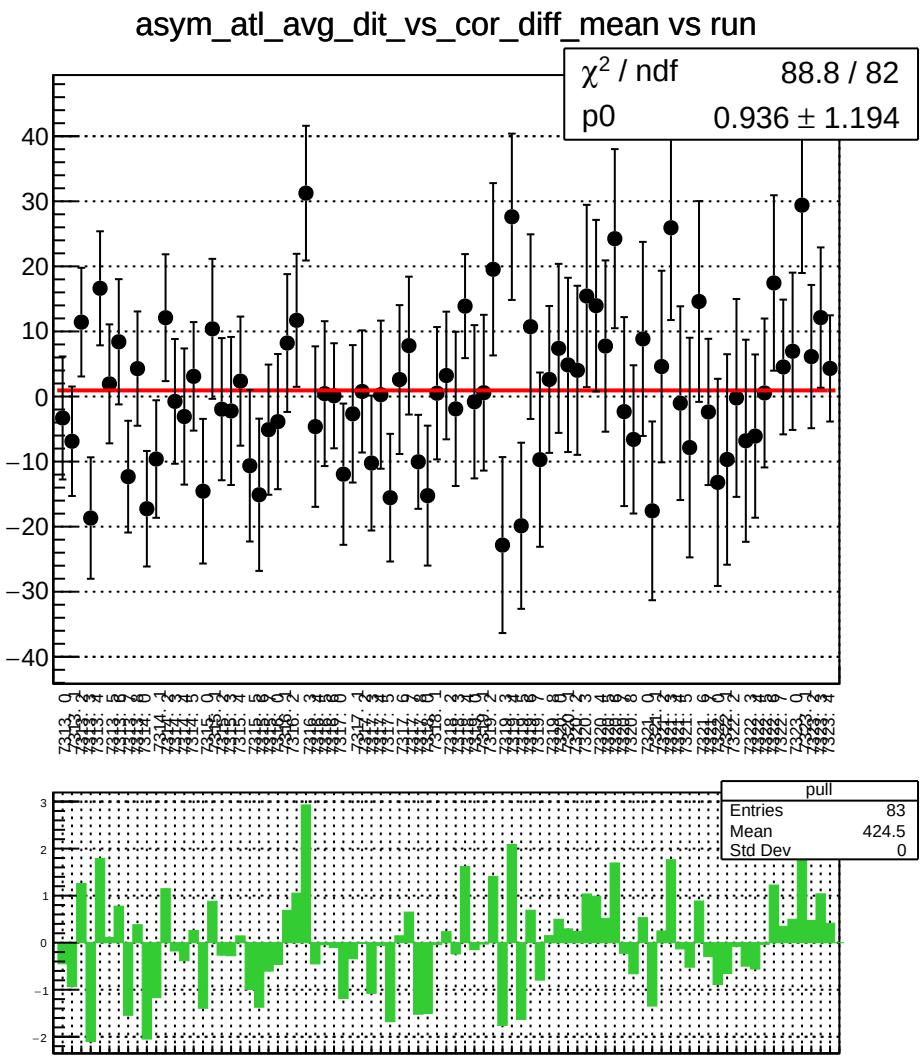

pull1D
Entries 83
Mean −0.002039
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

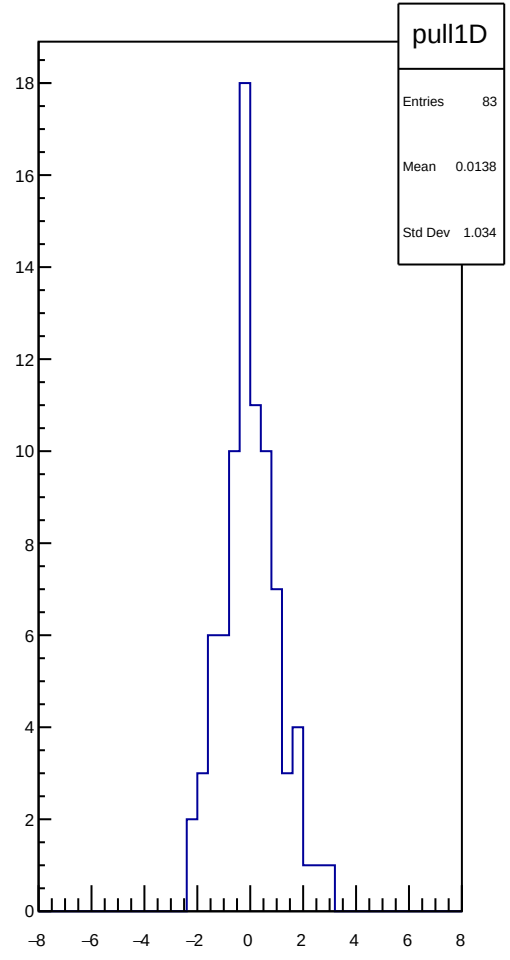

asym_atl_avg_rms vs run
χ² / ndf 1.379e+04 / 82
p0 6334 ± 5.011
8000
7500
7000
6500
6000
5500
5000
4500

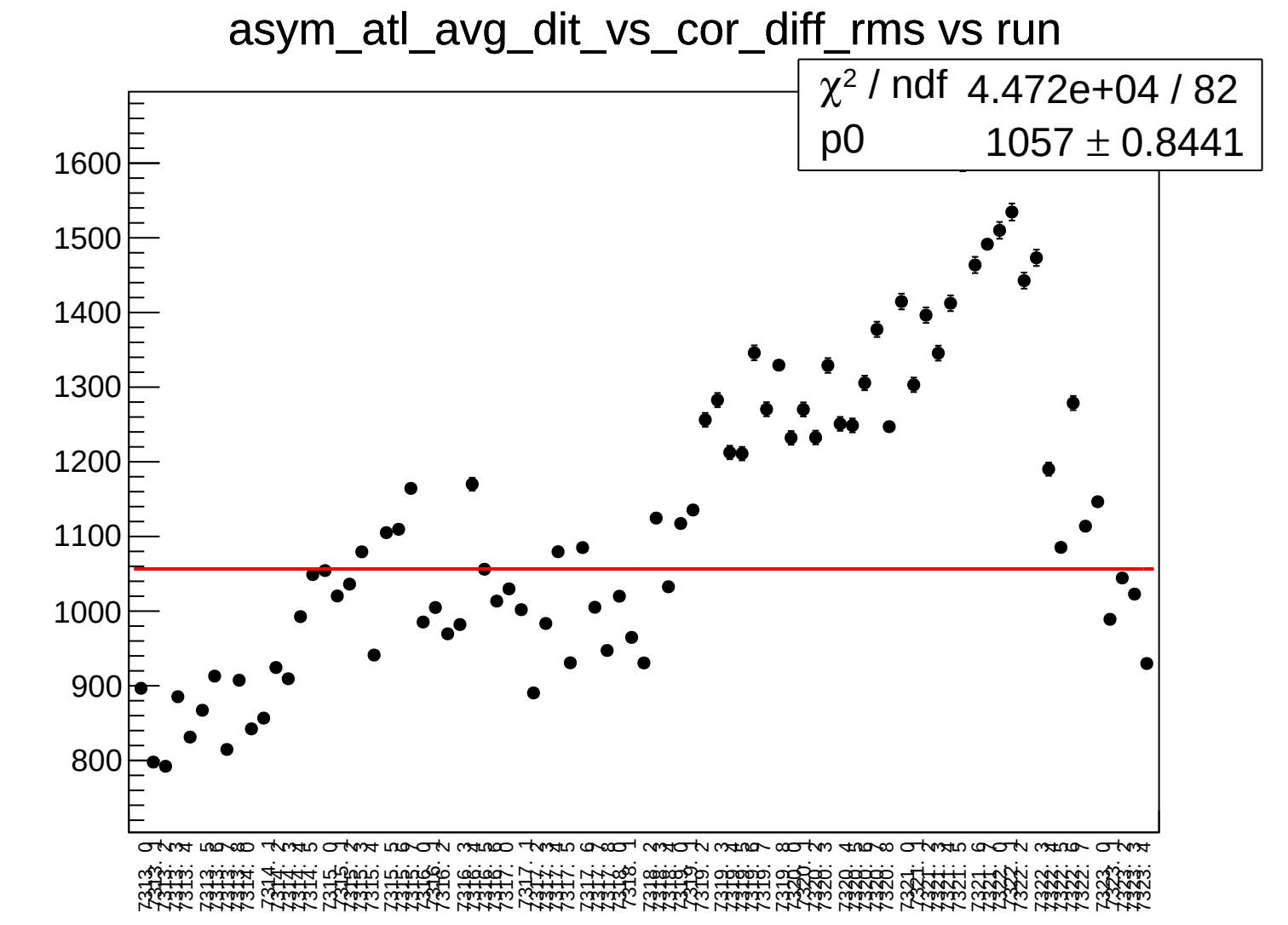

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.34 / 82
p0 −2.041e−13 ± 2.831e−13
pull
Entries 83
Mean 45.06
Std Dev 29

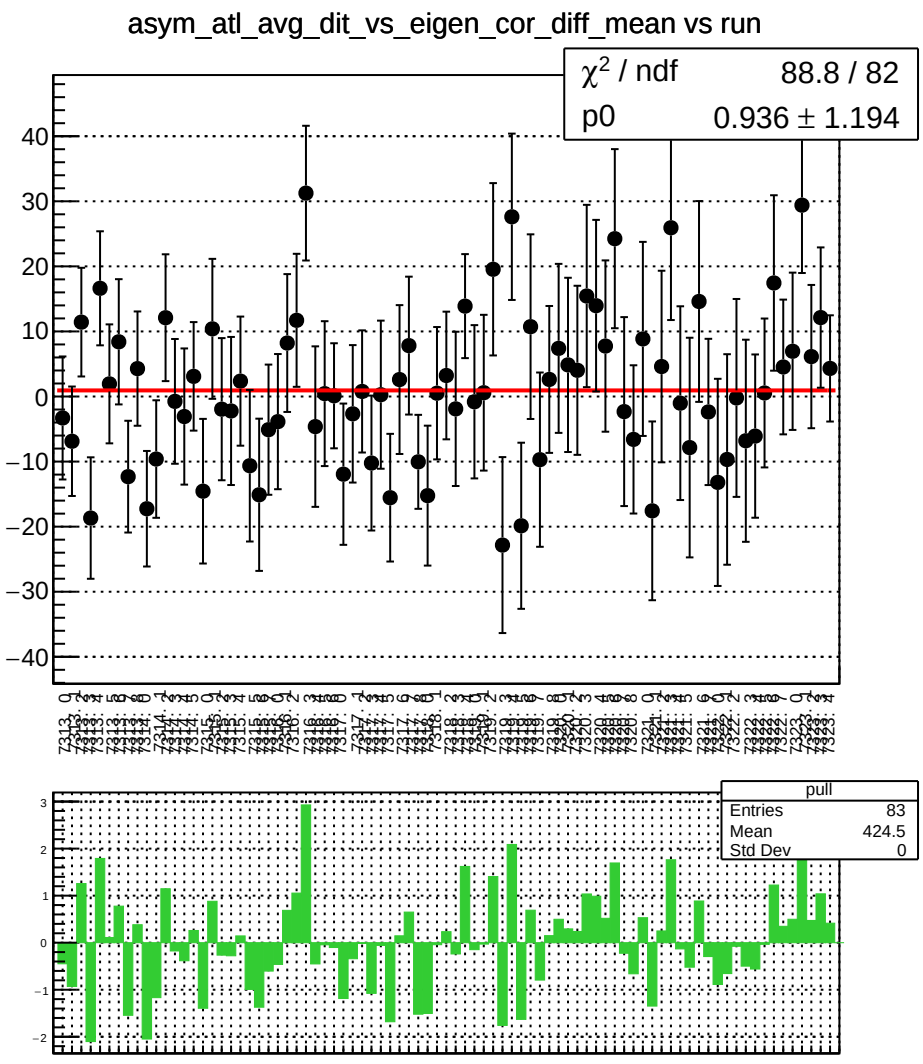

pull1D
Entries 83
Mean 0.07501
Std Dev 1.005

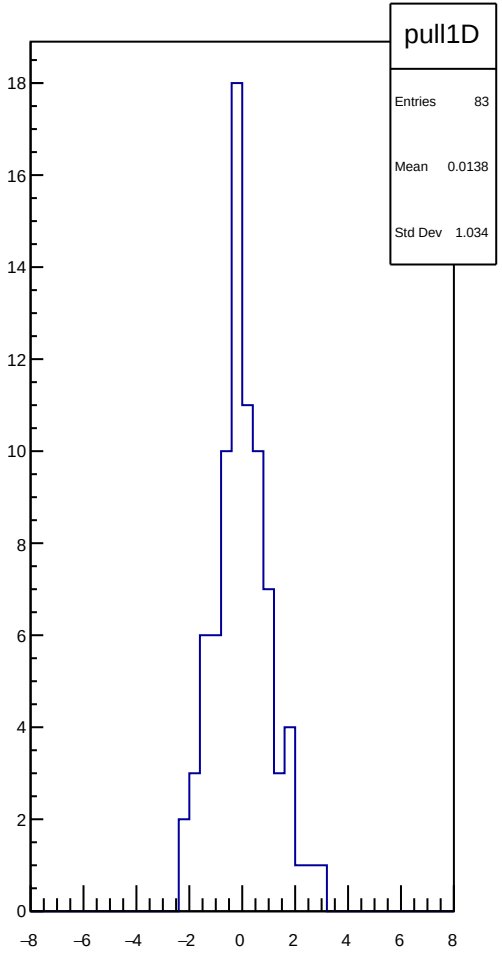

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.227e+06 / 82
p0 1.241e−10 ± 2.002e−13
1.2
1
0.8
0.6
0.4
0.2
0

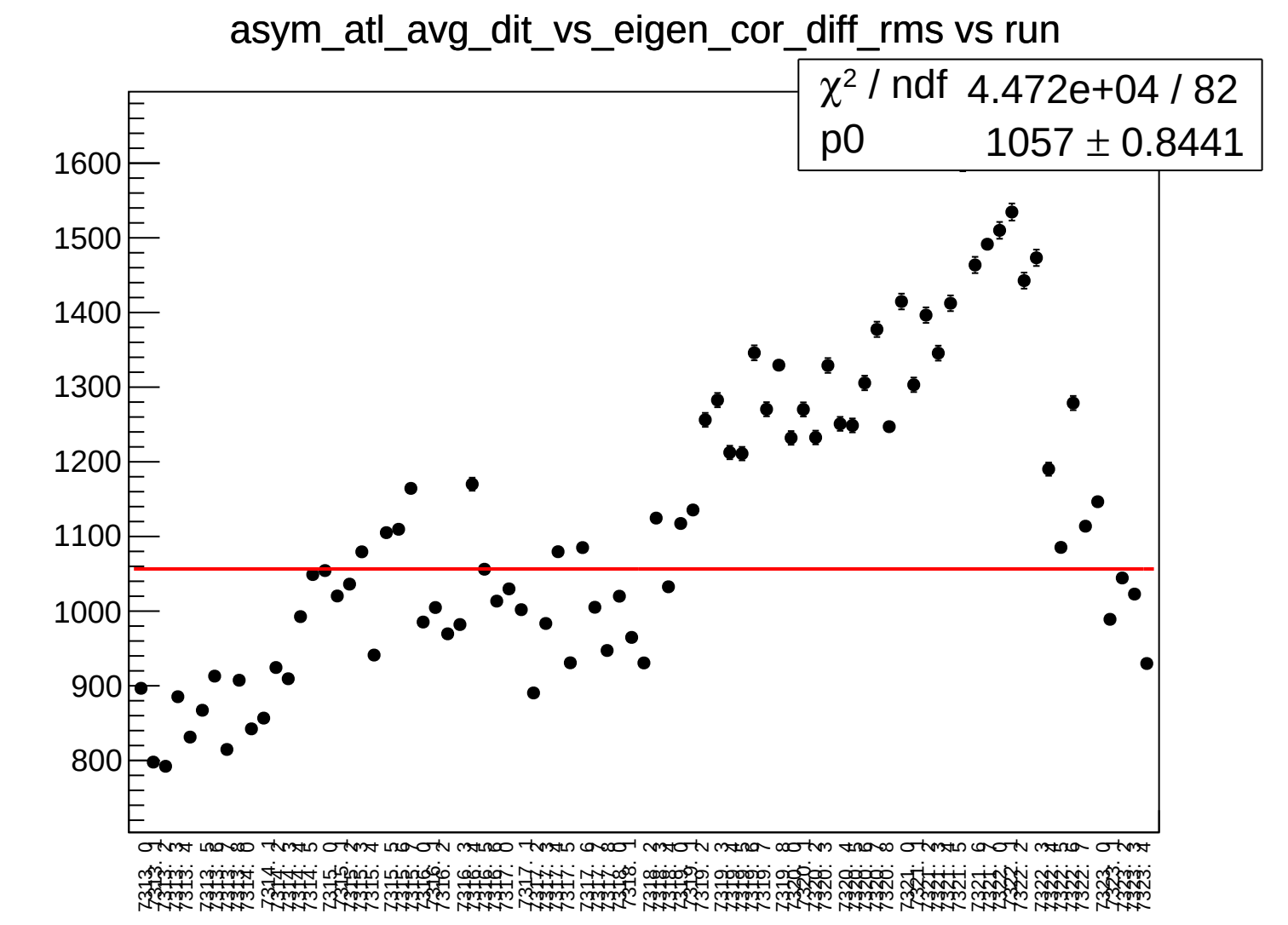

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 82
p0 0.936 ± 1.194
pull
Entries 83
Mean 424.5
Std Dev 0

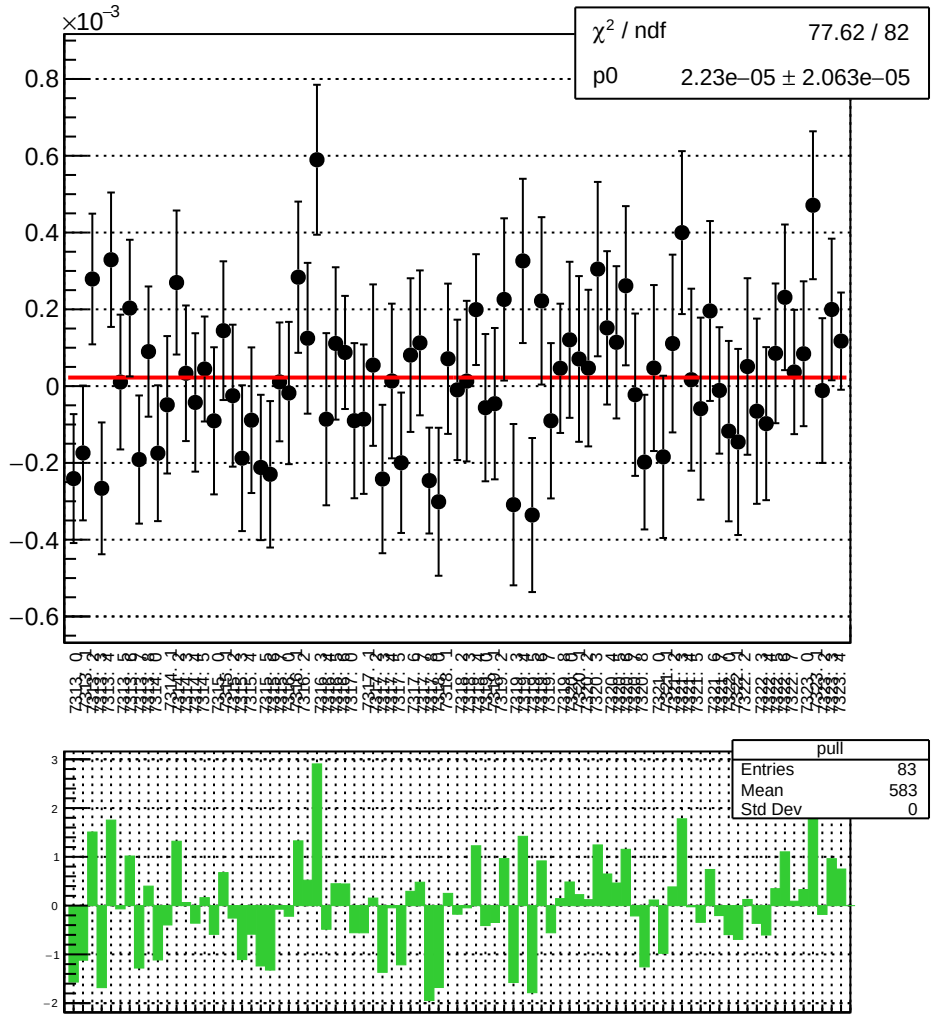

pull1D
Entries 83
Mean 0.0138
Std Dev 1.034

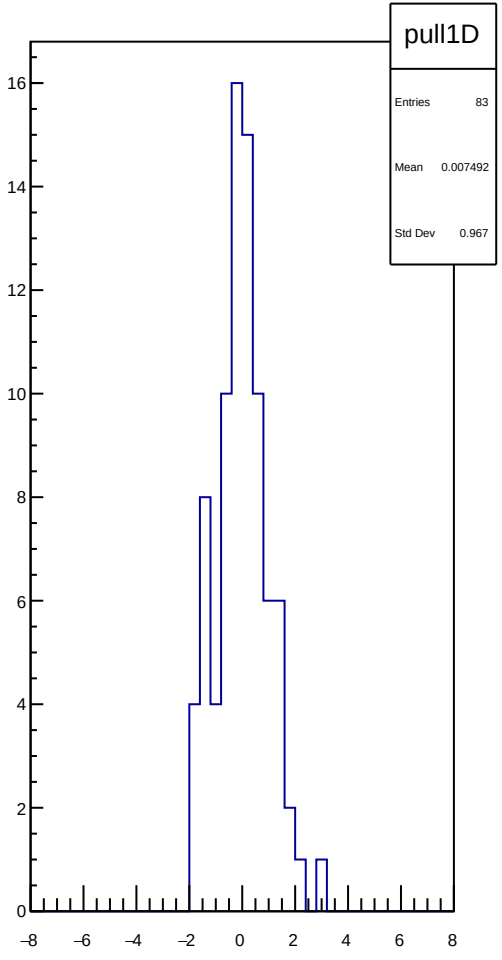

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.472e+04 / 82
p0 1057 ± 0.8441
1600
1500
1400
1300
1200
1100
1000
900
800

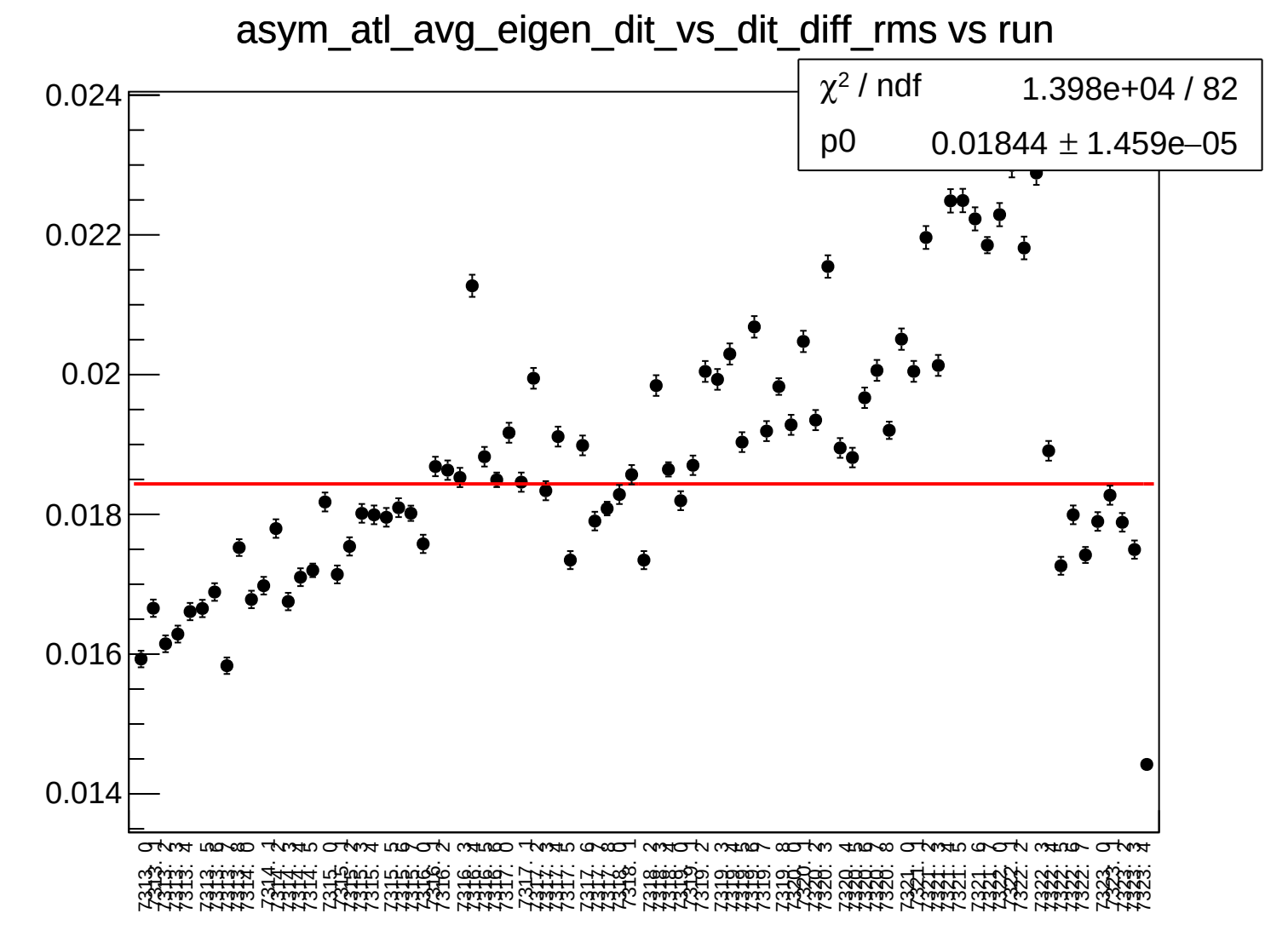

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.8 / 82
p0 0.936 ± 1.194
pull
Entries 83
Mean 424.5
Std Dev 0

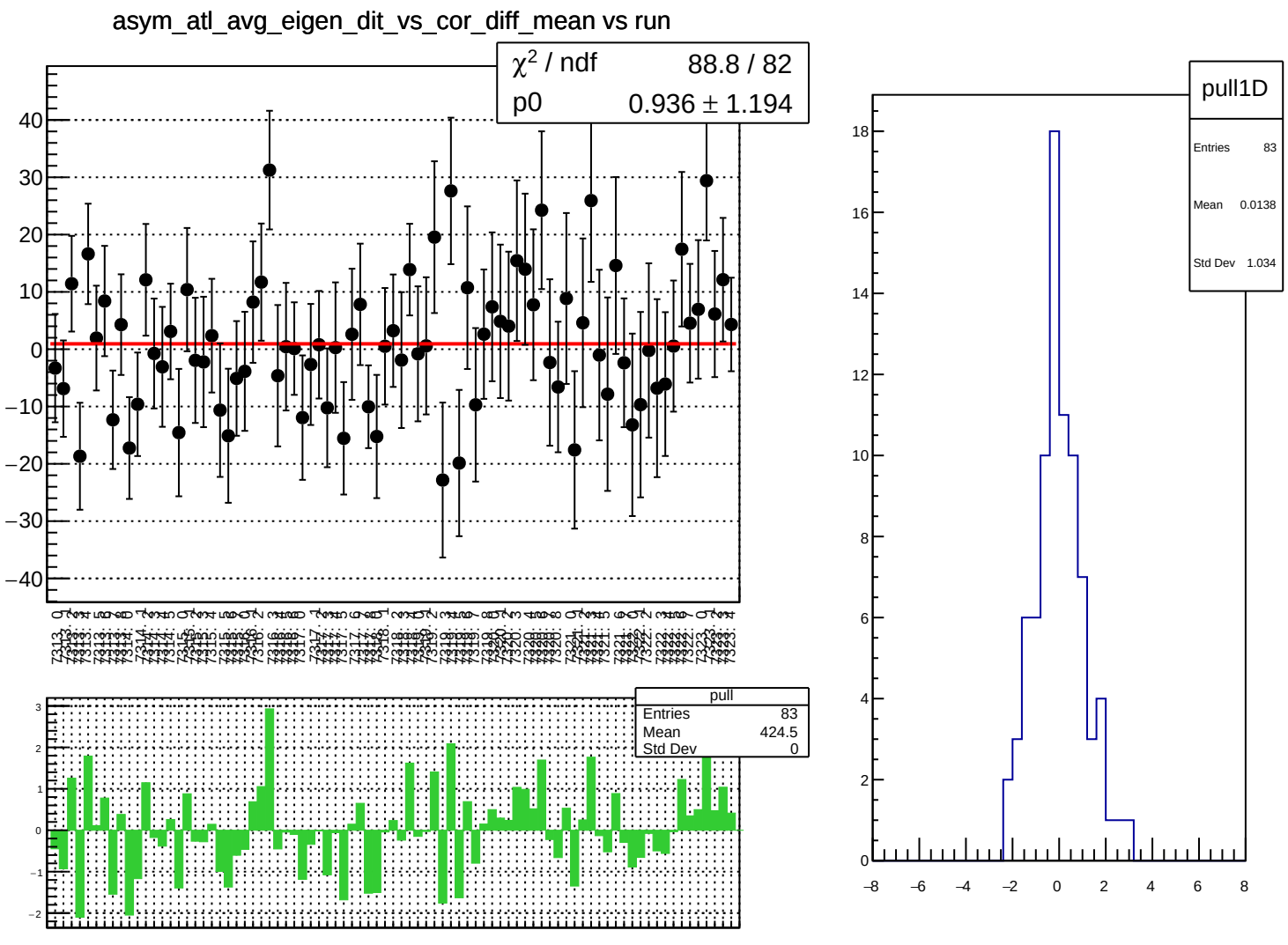

pull1D
Entries 83
Mean 0.0138
Std Dev 1.034

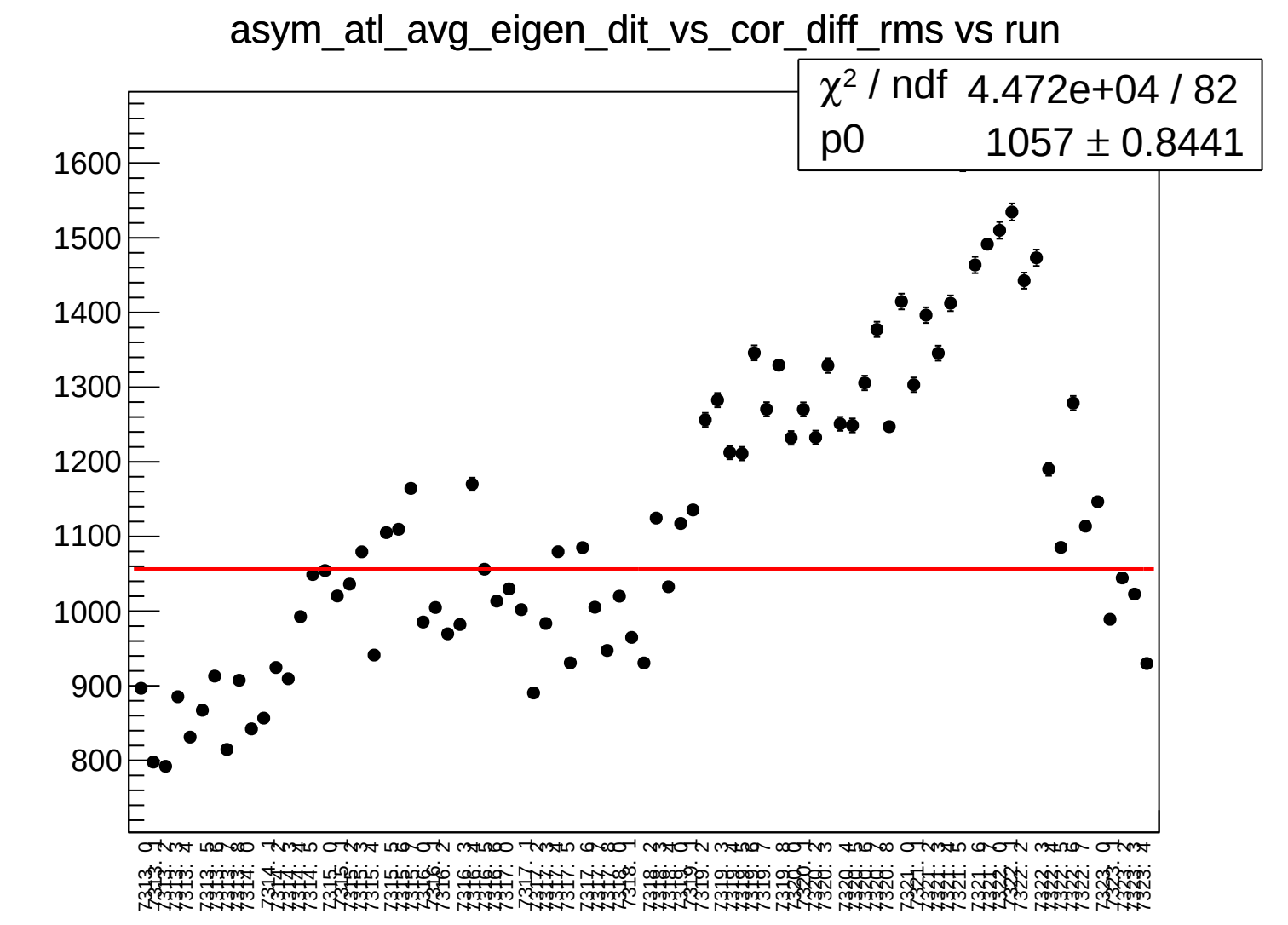

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.472e+04 / 82
p0 1057 ± 0.8441
1600
1500
1400
1300
1200
1100
1000
900
800

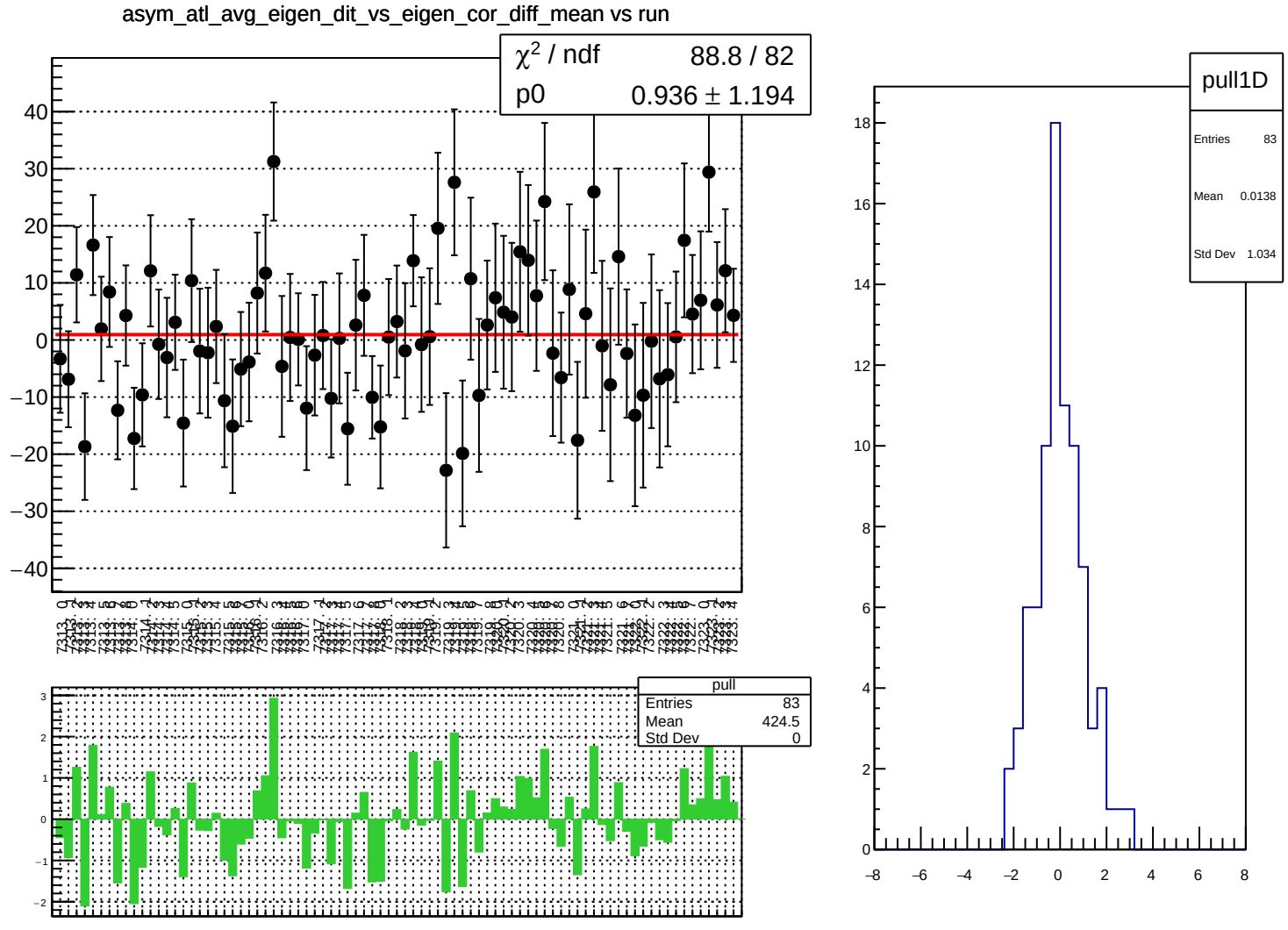

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.62 / 82
p0 2.23e−05 ± 2.063e−05
pull
Entries 83
Mean 583
Std Dev 0

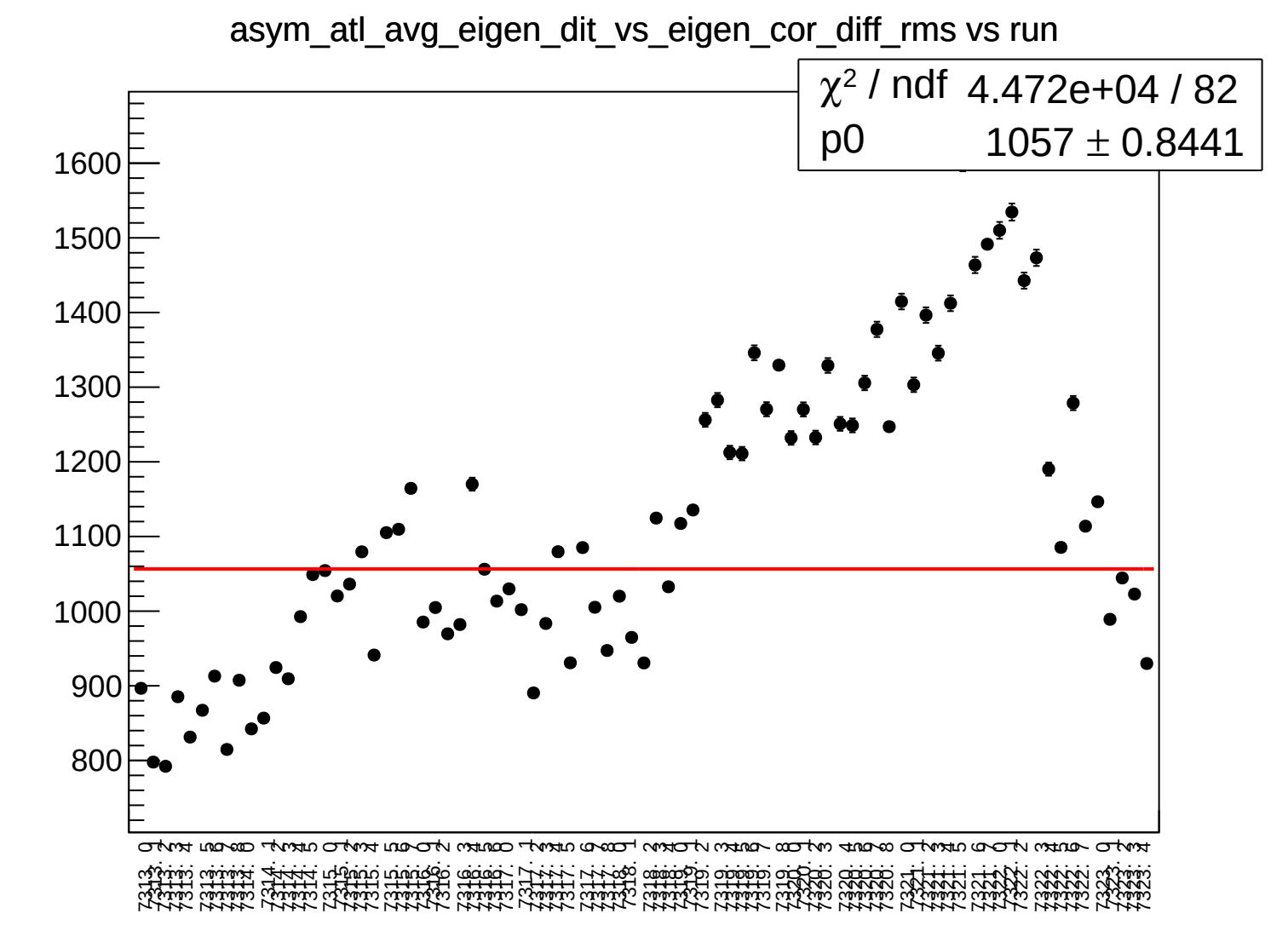

pull1D
Entries 83
Mean 0.007492
Std Dev 0.967

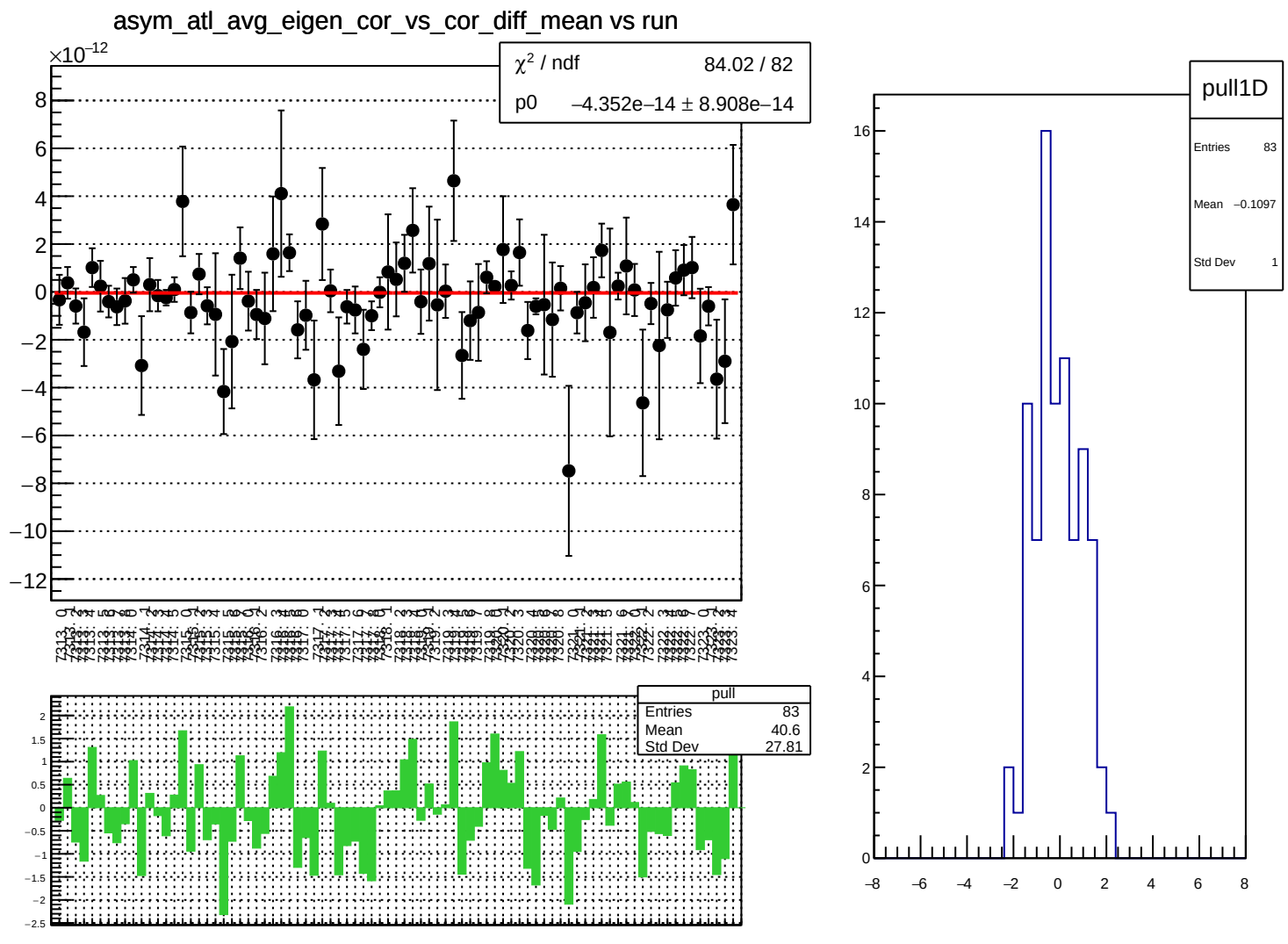

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.398e+04 / 82
p0 0.01844 ± 1.459e−05
0.024
0.022
0.02
0.018
0.016
0.014

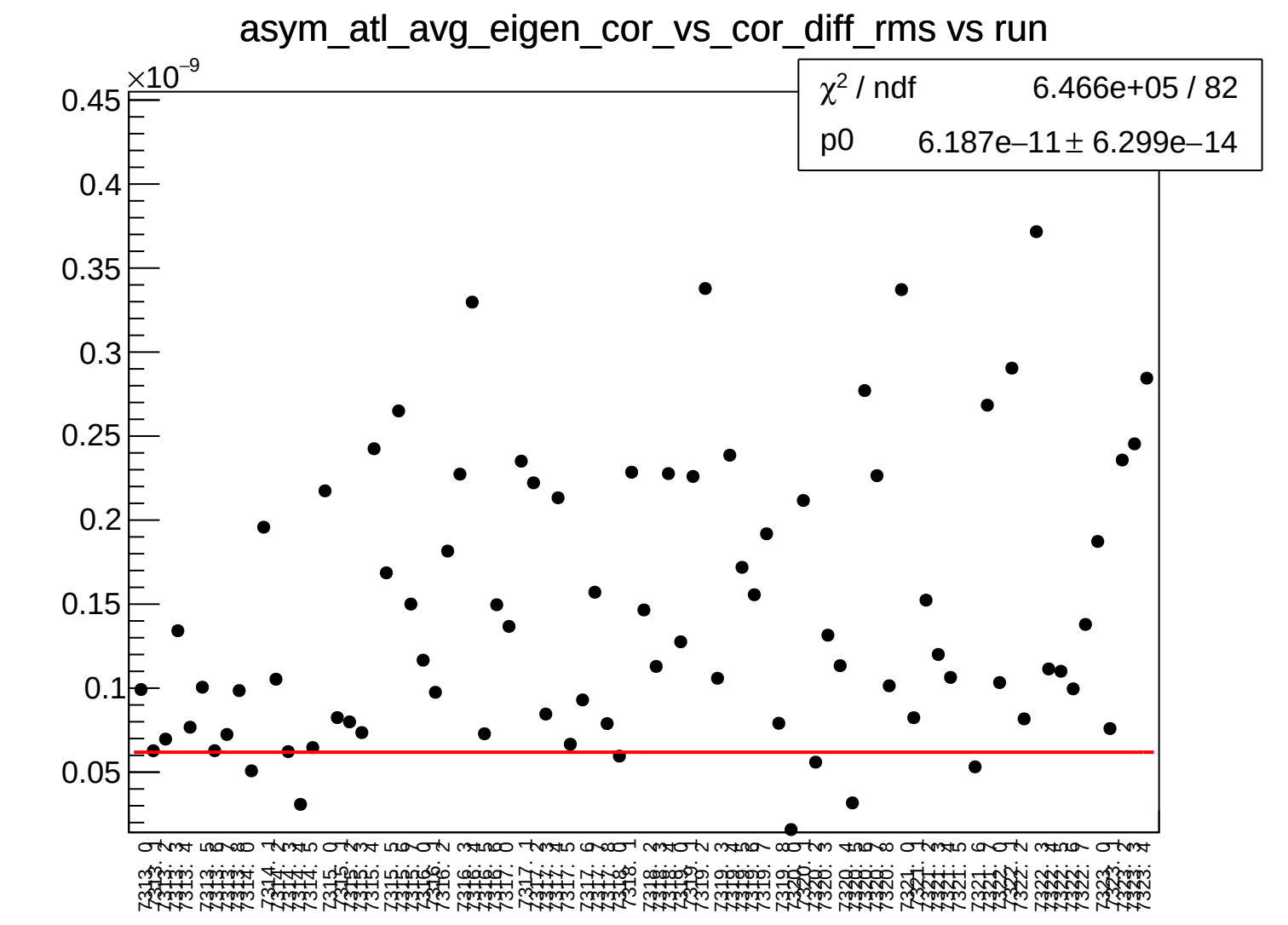

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 82
p0 0.936 ± 1.194
pull
Entries 83
Mean 424.5
Std Dev 0
pull1D
Entries 83
Mean 0.0138
Std Dev 1.034

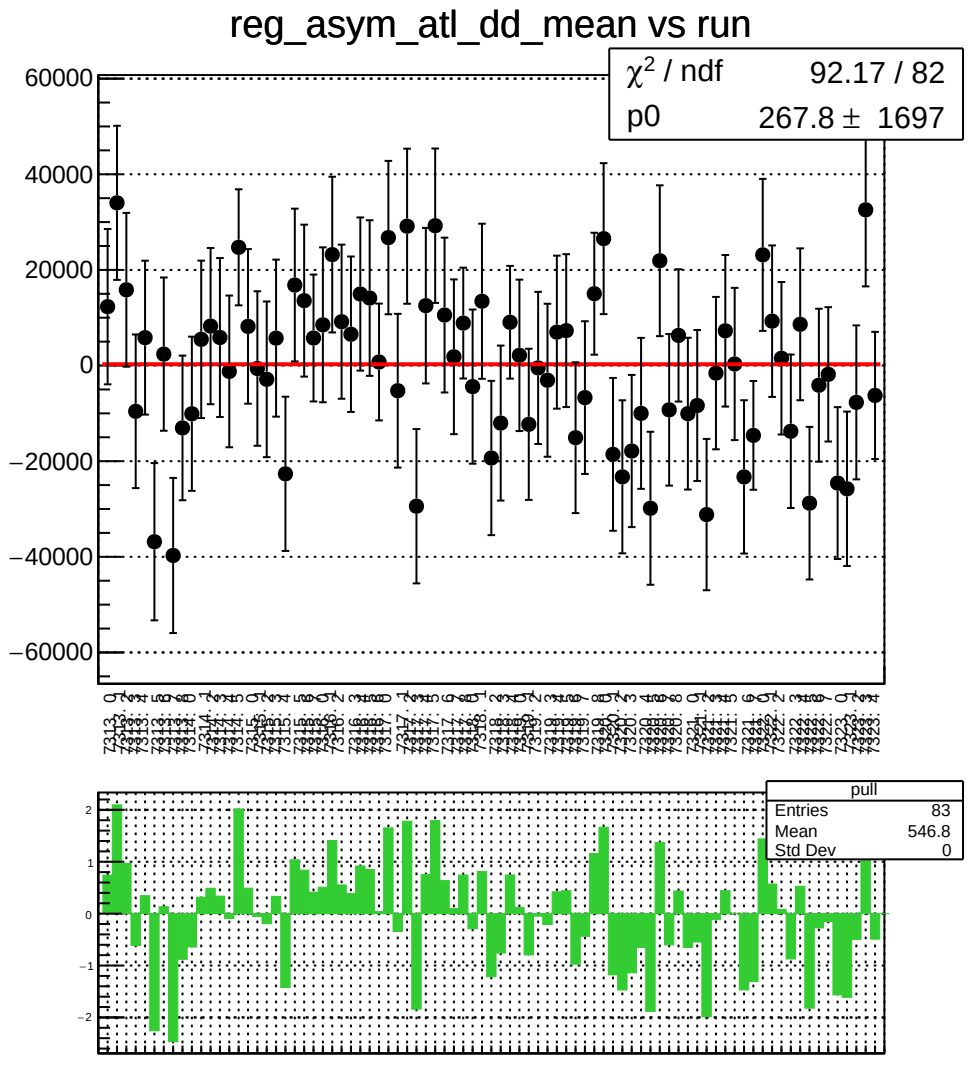

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.472e+04 / 82
p0 1057 ± 0.8441
1600
1500
1400
1300
1200
1100
1000
900
800

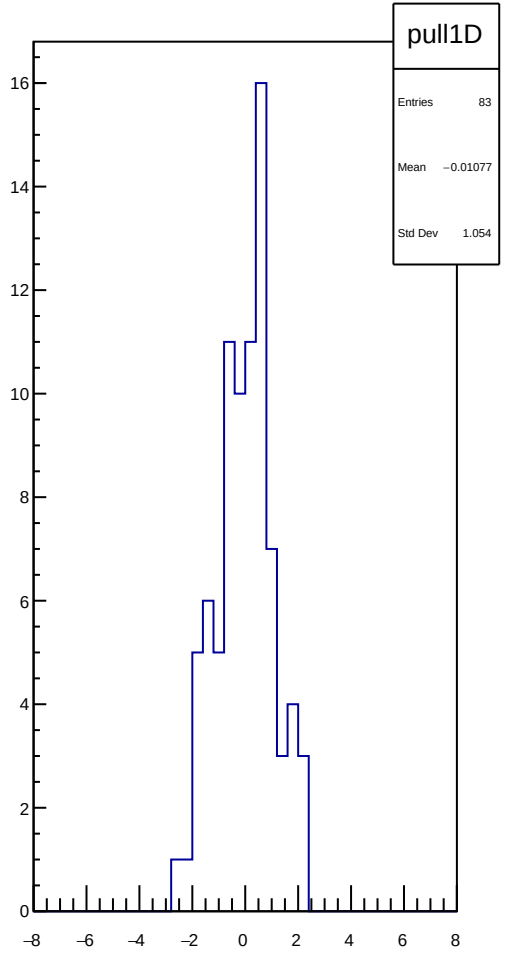

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.8 / 82
p0 0.936 ± 1.194
pull
Entries 83
Mean 424.5
Std Dev 0
pull1D
Entries 83
Mean 0.0138
Std Dev 1.034

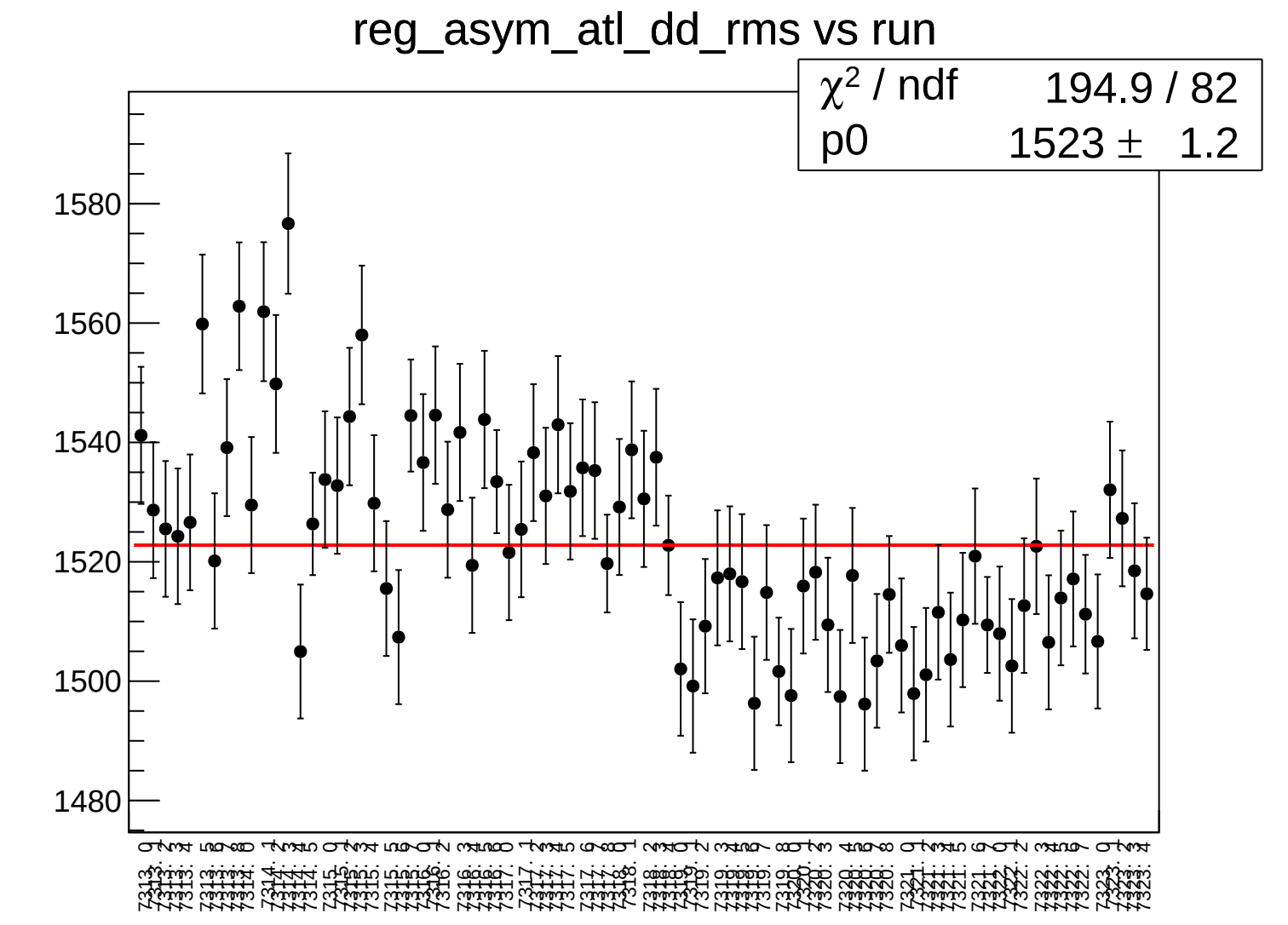

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.472e+04 / 82
p0 1057 ± 0.8441
1600
1500
1400
1300
1200
1100
1000
900
800

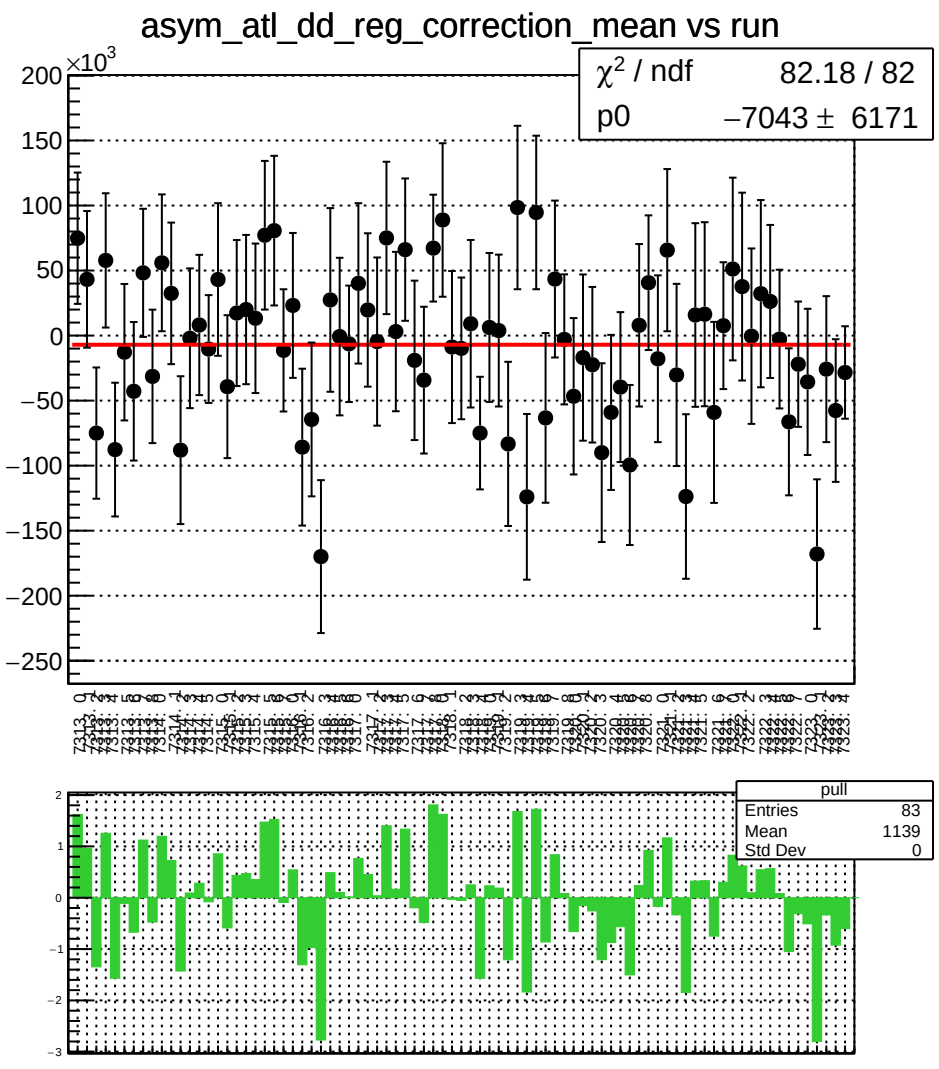

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.02 / 82
p0 −4.352e−14 ± 8.908e−14
pull
Entries 83
Mean 40.6
Std Dev 27.81
pull1D
Entries 83
Mean −0.1097
Std Dev 1

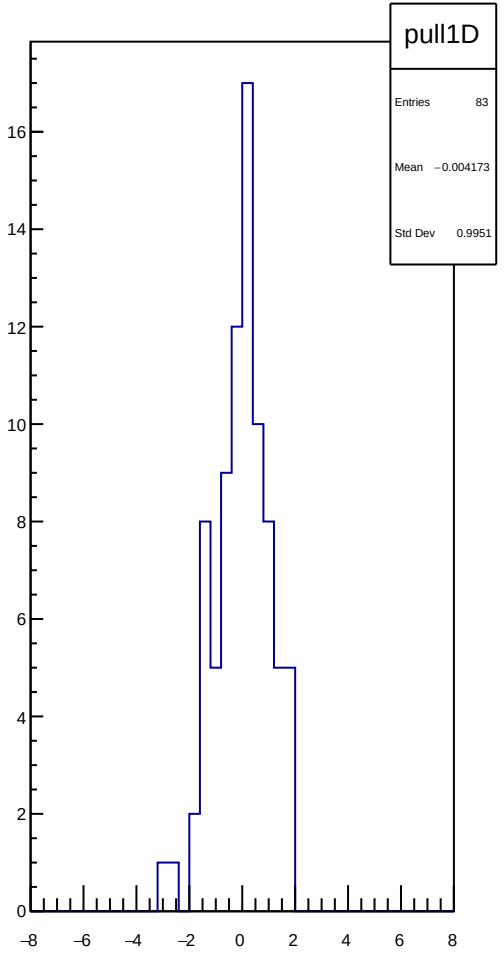

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.466e+05 / 82
p0 6.187e−11 ± 6.299e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

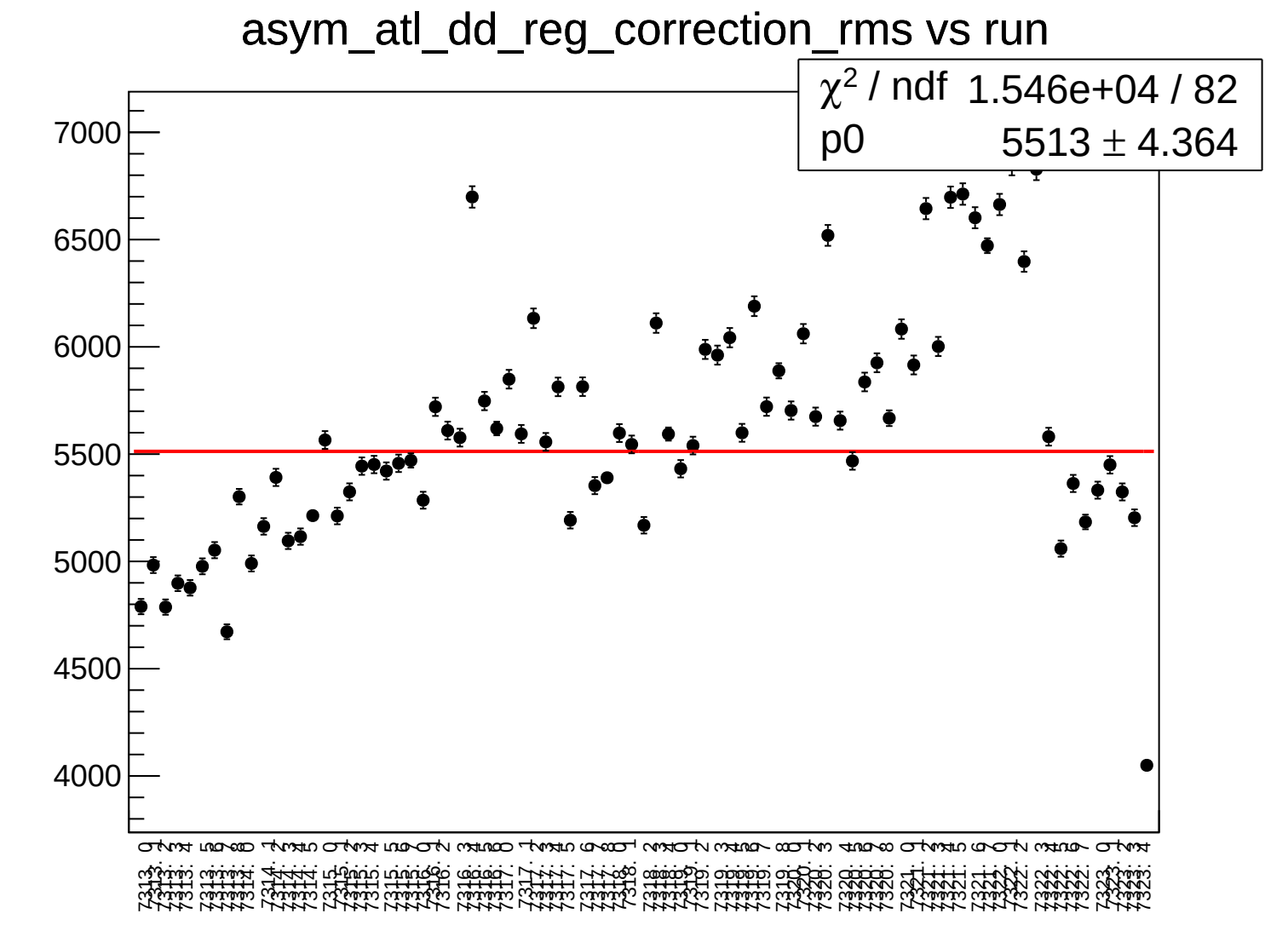

reg_asym_atl_dd_mean vs run
χ² / ndf 92.17 / 82
p0 267.8 ± 1697
pull
Entries 83
Mean 546.8
Std Dev 0

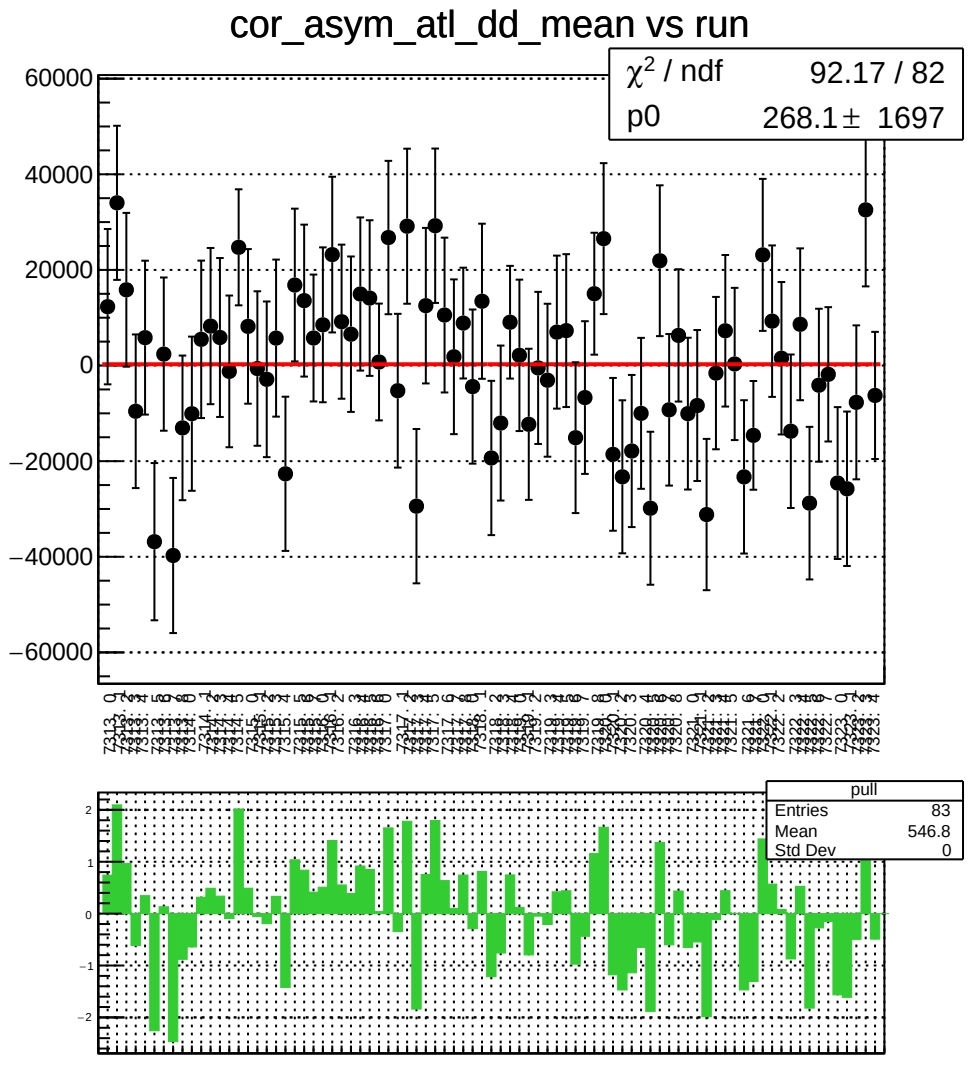

pull1D
Entries 83
Mean −0.01077
Std Dev 1.054

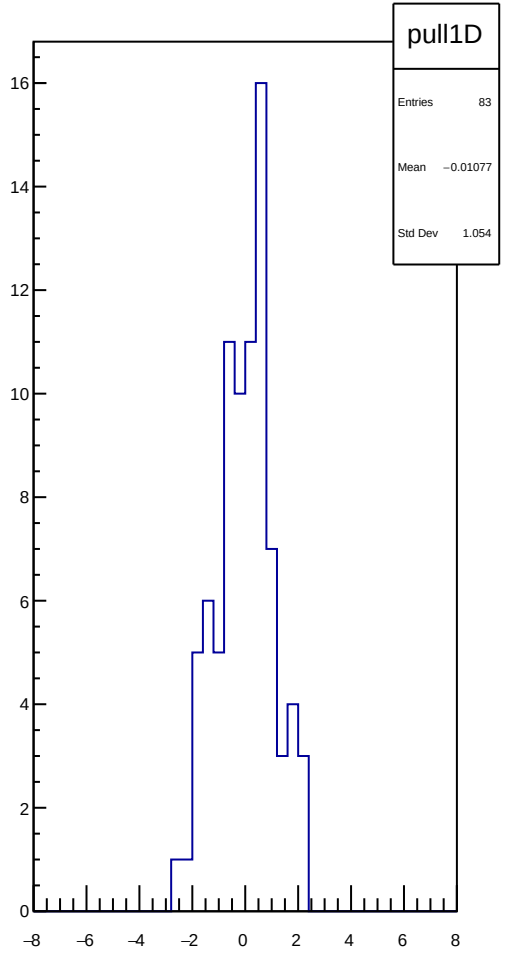

reg_asym_atl_dd_rms vs run
χ² / ndf 194.9 / 82
p0 1523 ± 1.2
1580
1560
1540
1520
1500
1480

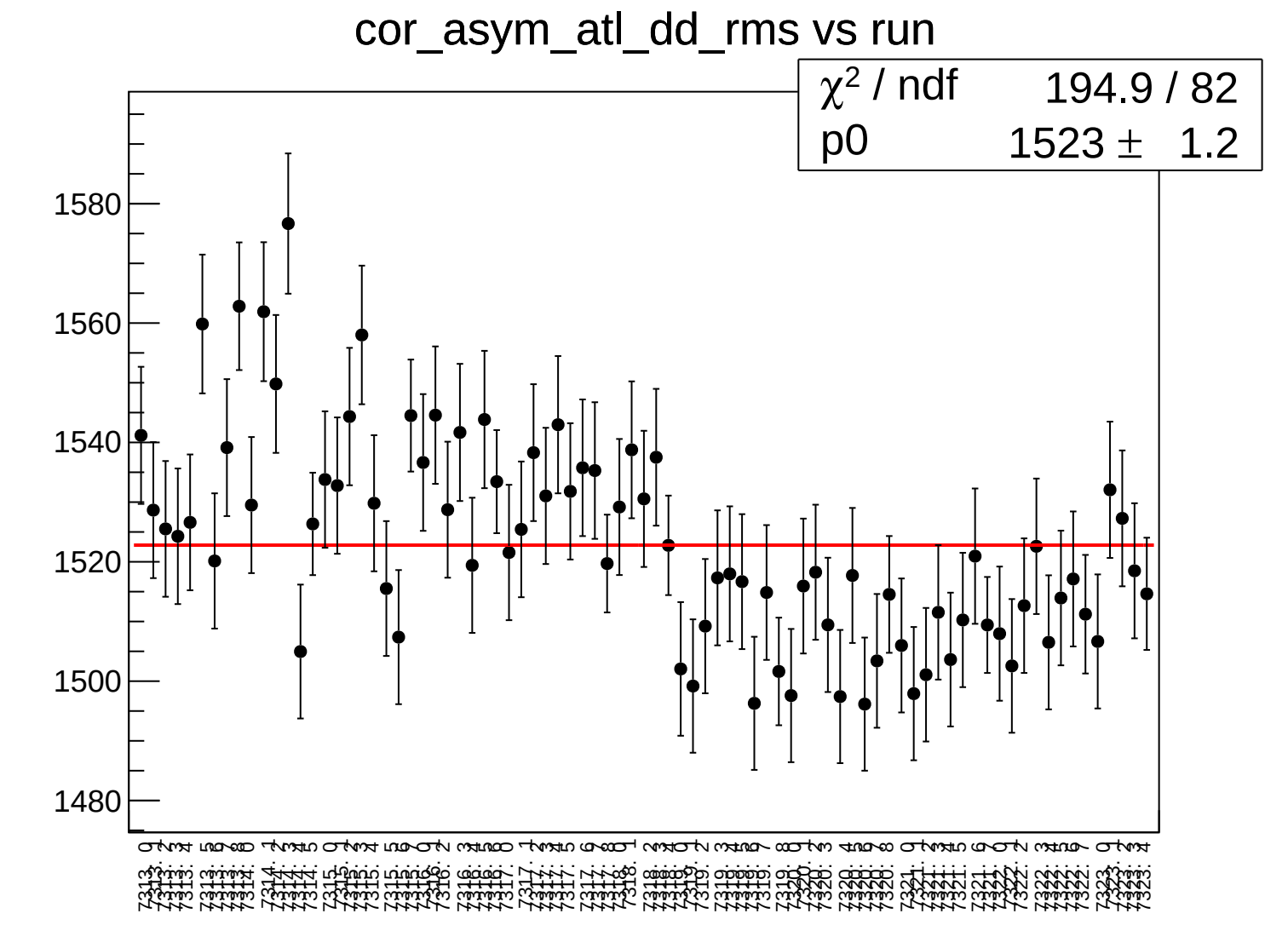

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 82.18 / 82
p0 −7043 ± 6171
×10³
pull
Entries 83
Mean 1139
Std Dev 0

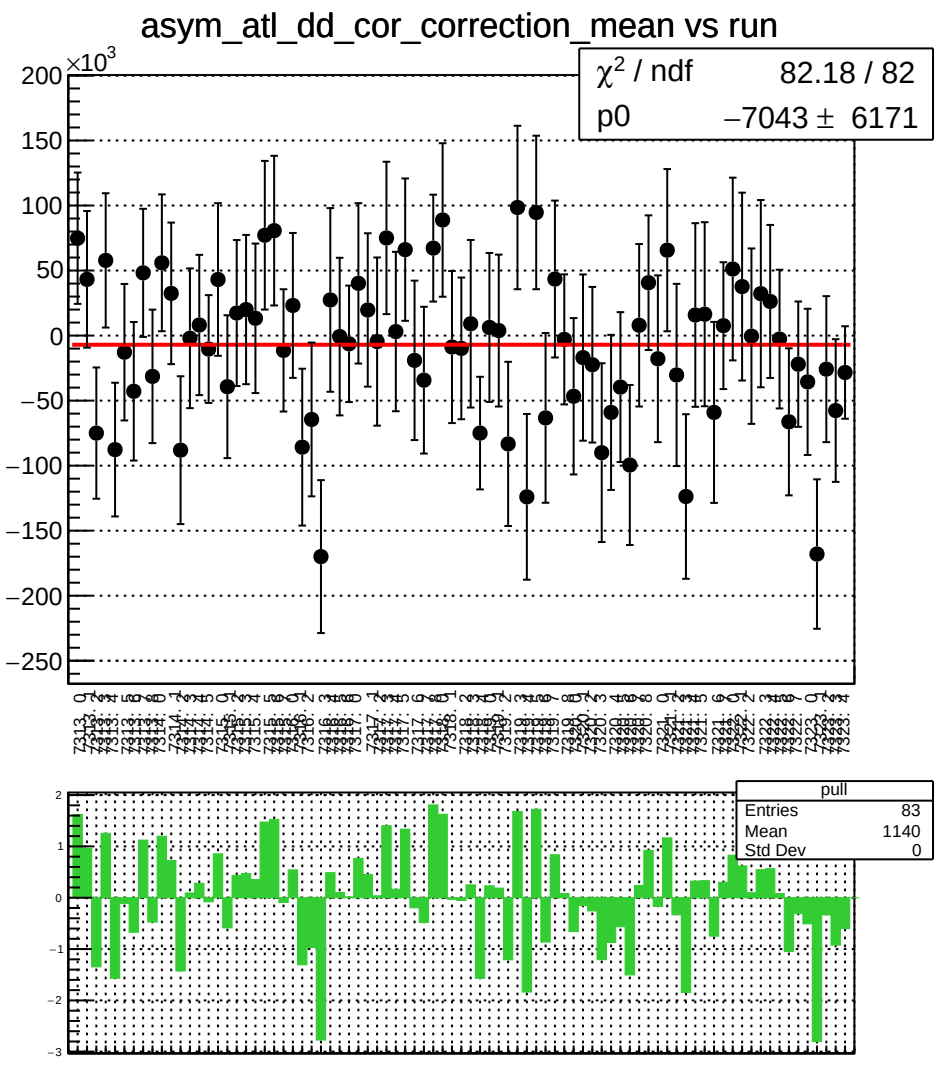

pull1D
Entries 83
Mean −0.004173
Std Dev 0.9951

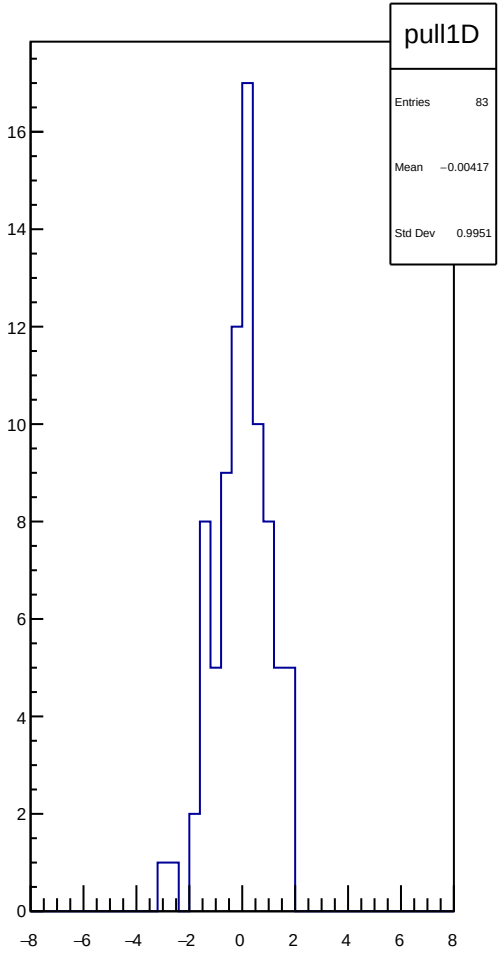

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.546e+04 / 82
p0 5513 ± 4.364
7000
6500
6000
5500
5000
4500
4000

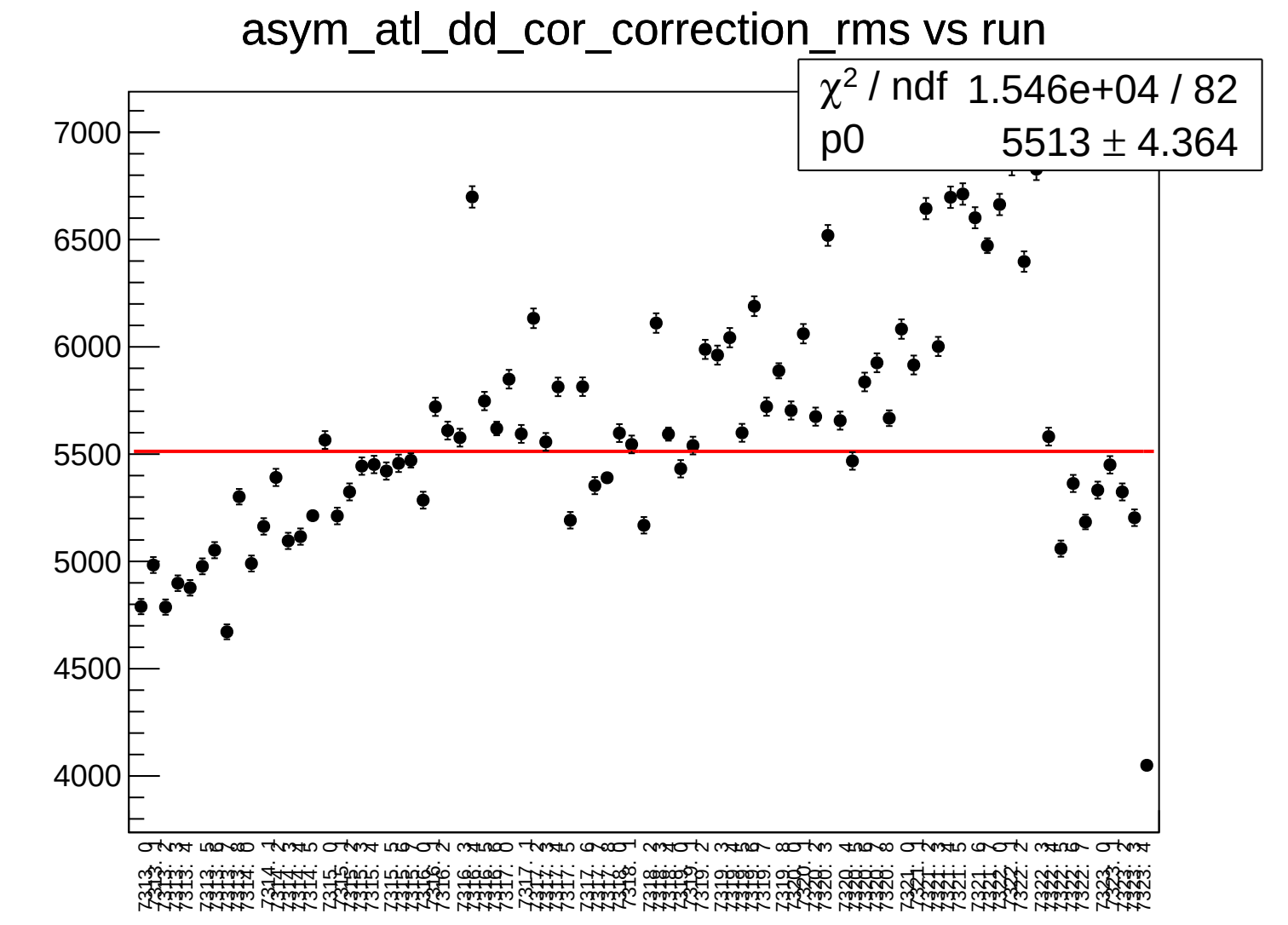

cor_asym_atl_dd_mean vs run
χ² / ndf 92.17 / 82
p0 268.1 ± 1697
pull
Entries 83
Mean 546.8
Std Dev 0

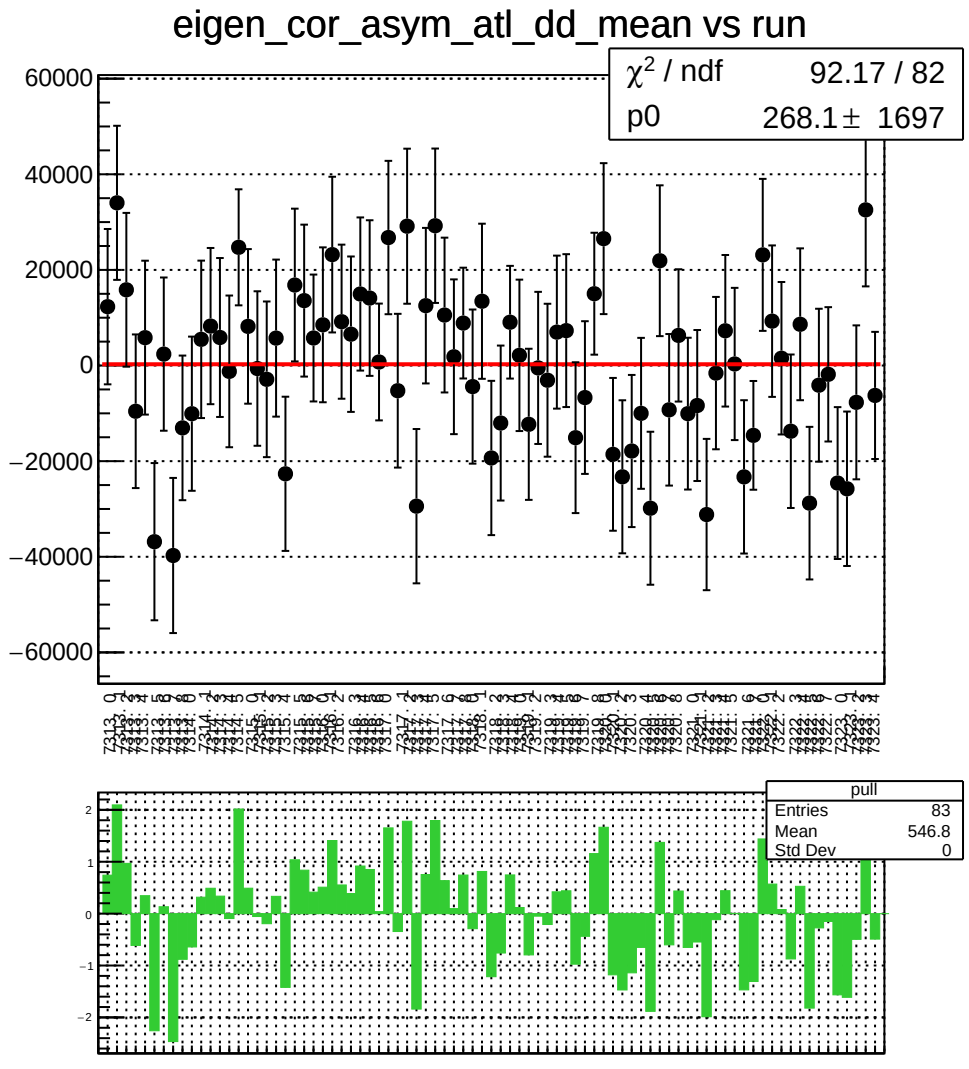

pull1D
Entries 83
Mean −0.01077
Std Dev 1.054

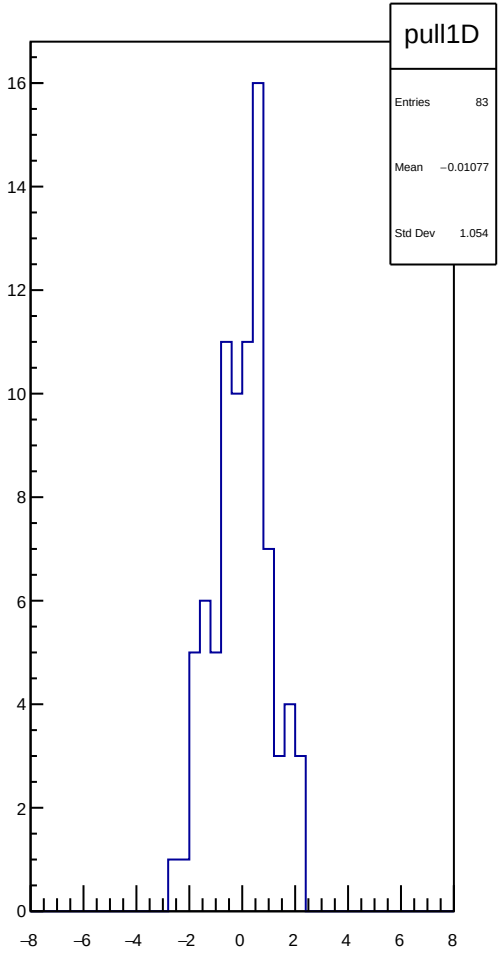

cor_asym_atl_dd_rms vs run
χ² / ndf 194.9 / 82
p0 1523 ± 1.2
1580
1560
1540
1520
1500
1480

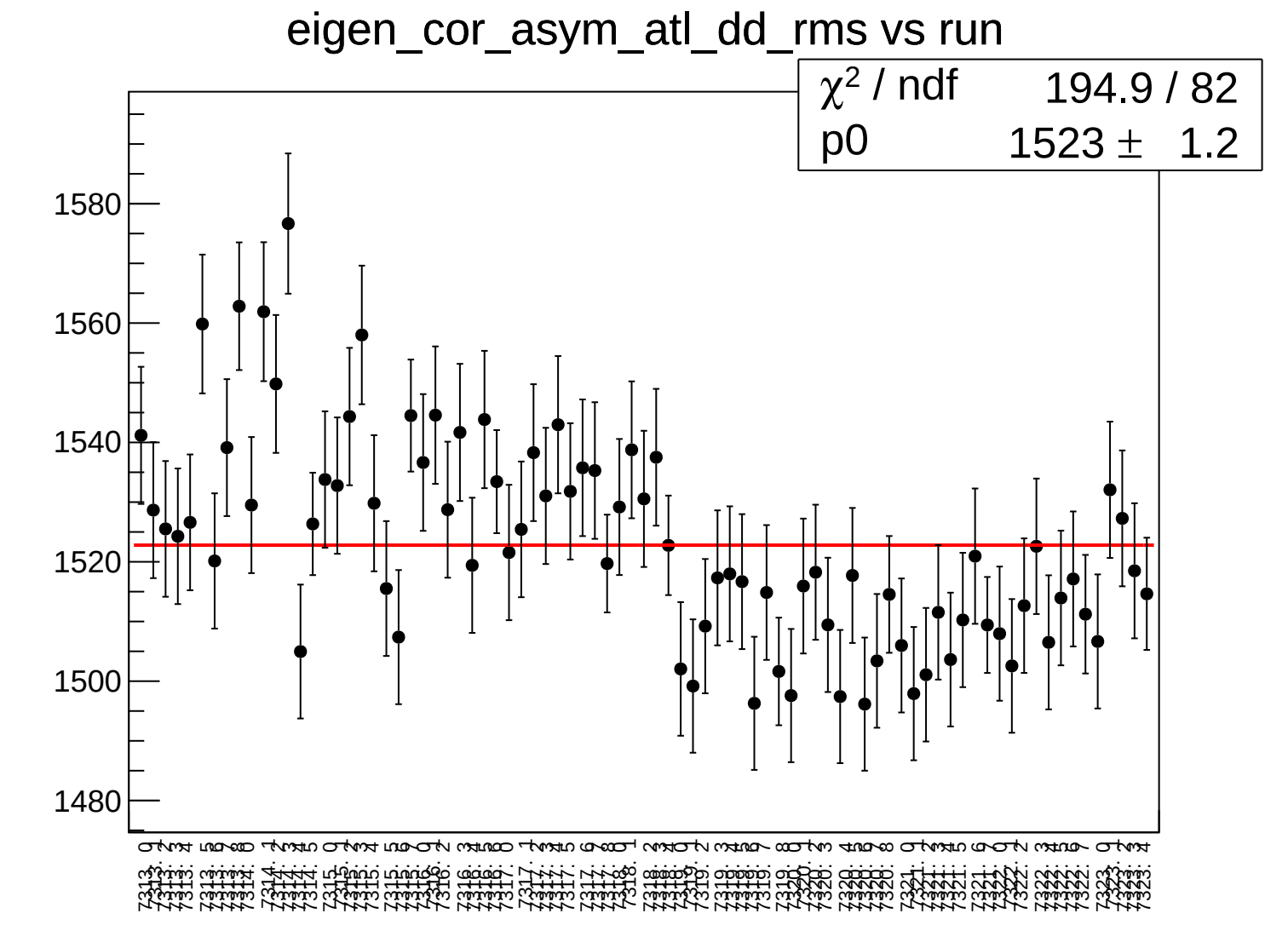

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 82.18 / 82
p0 −7043 ± 6171
×10³
pull
Entries 83
Mean 1140
Std Dev 0

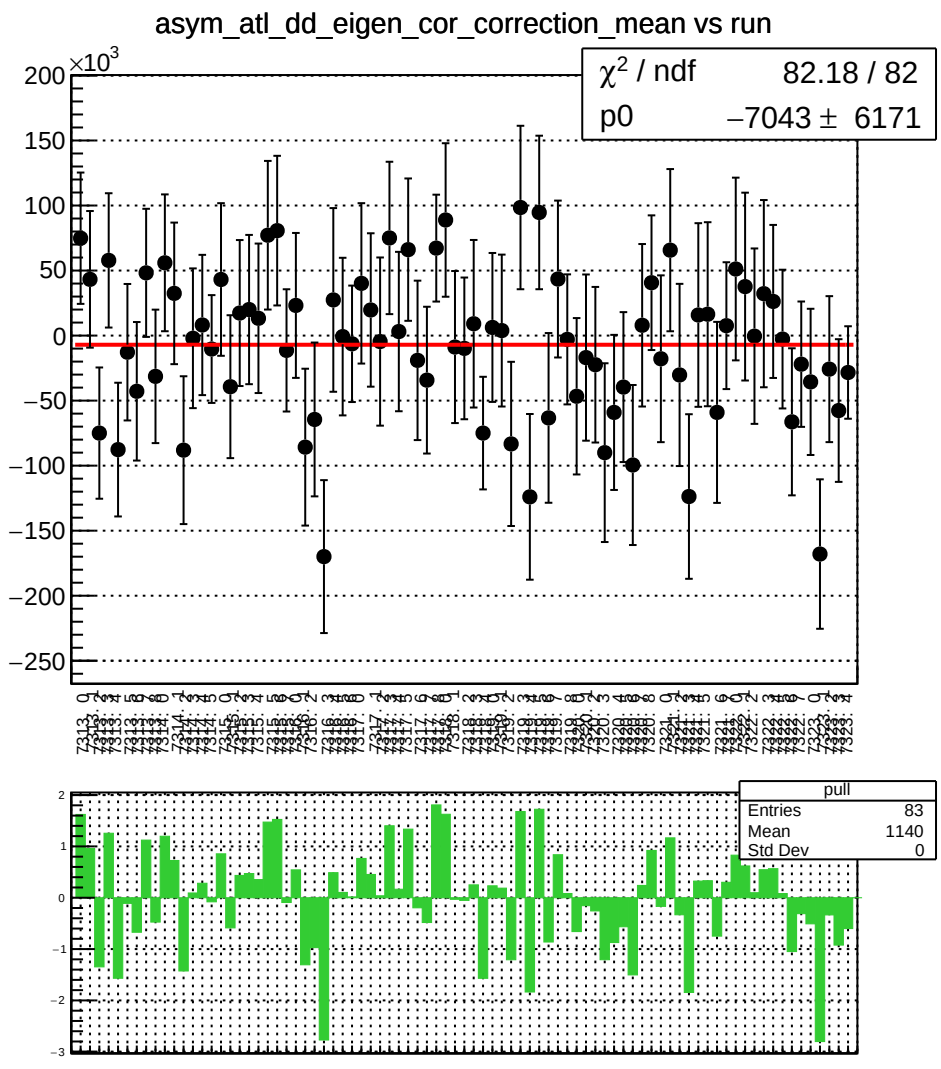

pull1D
Entries 83
Mean −0.00417
Std Dev 0.9951

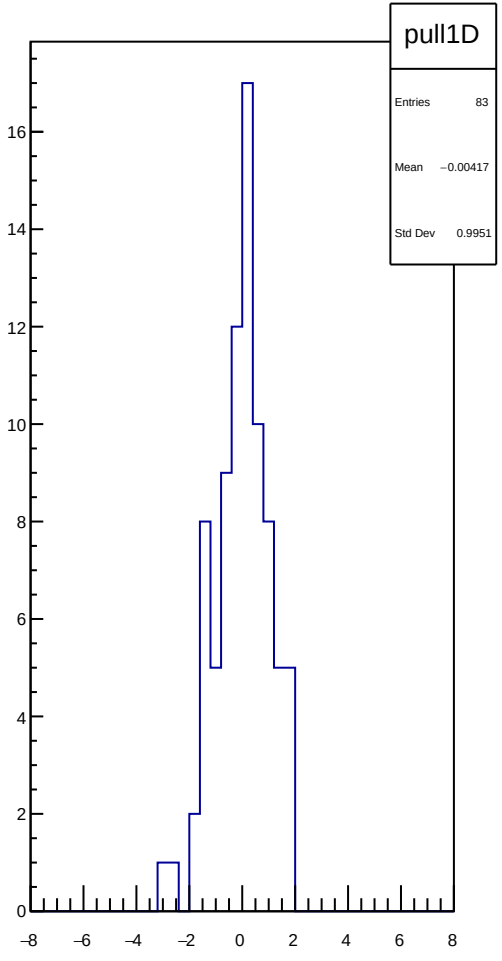

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 82
p0 5513 ± 4.364
7000
6500
6000
5500
5000
4500
4000

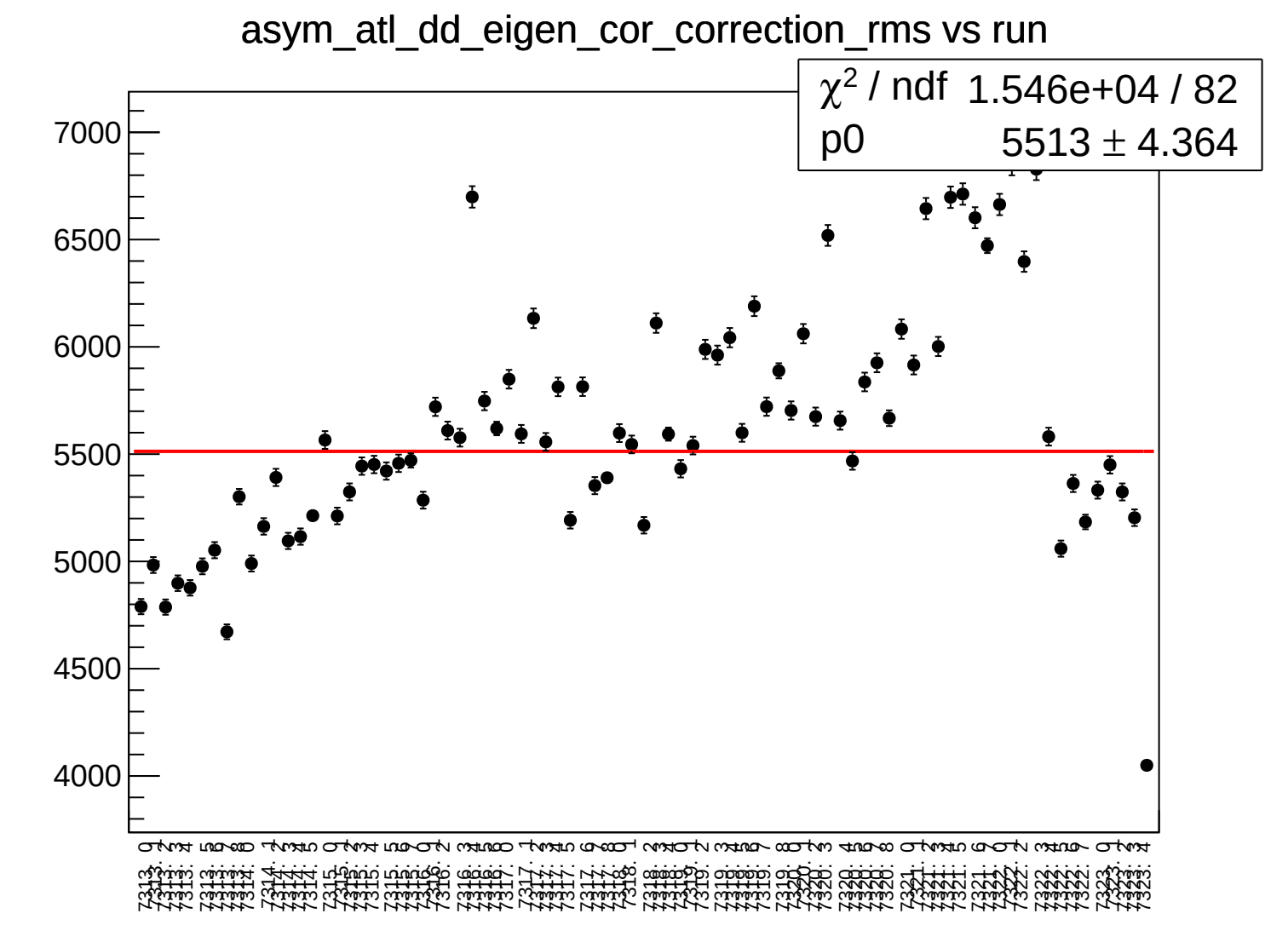

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 92.17 / 82
p0 268.1 ± 1697
pull
Entries 83
Mean 546.8
Std Dev 0

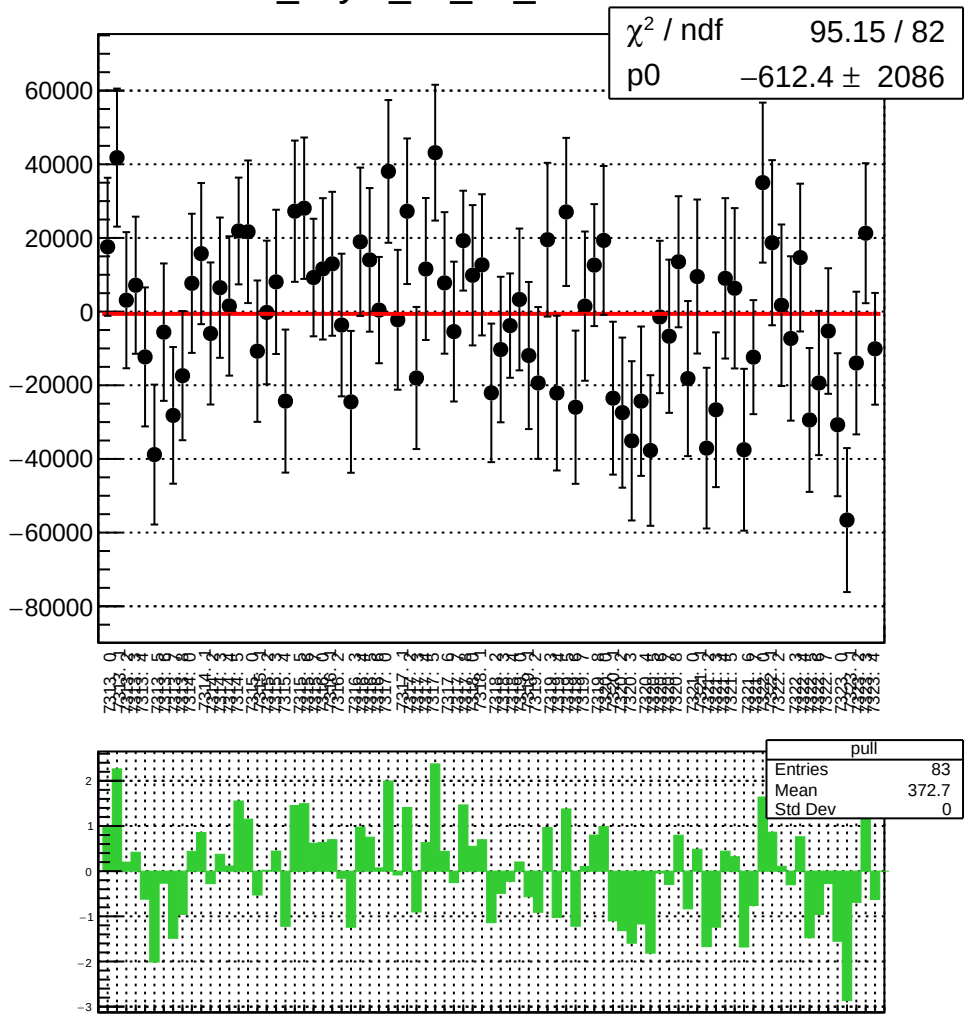

pull1D
Entries 83
Mean −0.01077
Std Dev 1.054

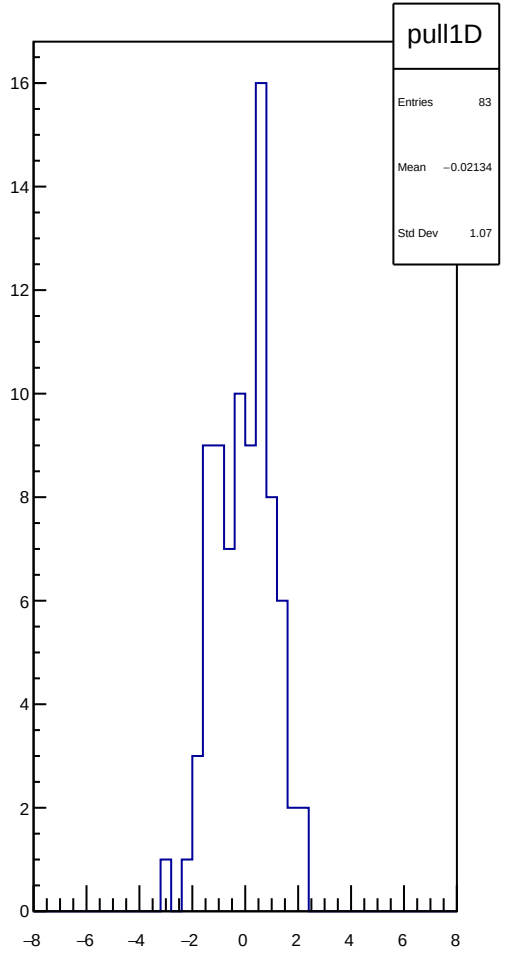

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 194.9 / 82
p0 1523 ± 1.2
1580
1560
1540
1520
1500
1480

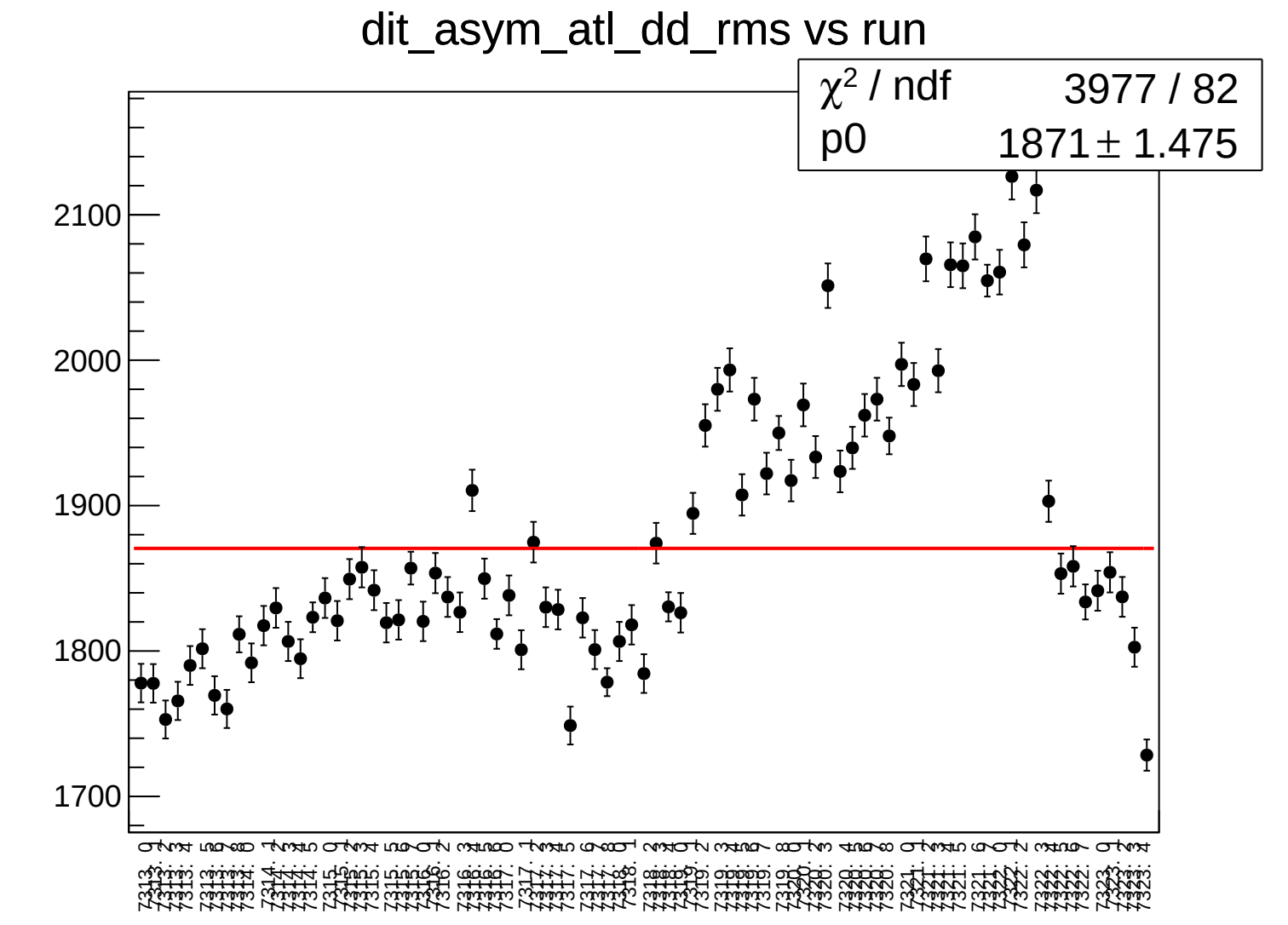

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.18 / 82
p0 −7043 ± 6171
pull
Entries 83
Mean 1140
Std Dev 0

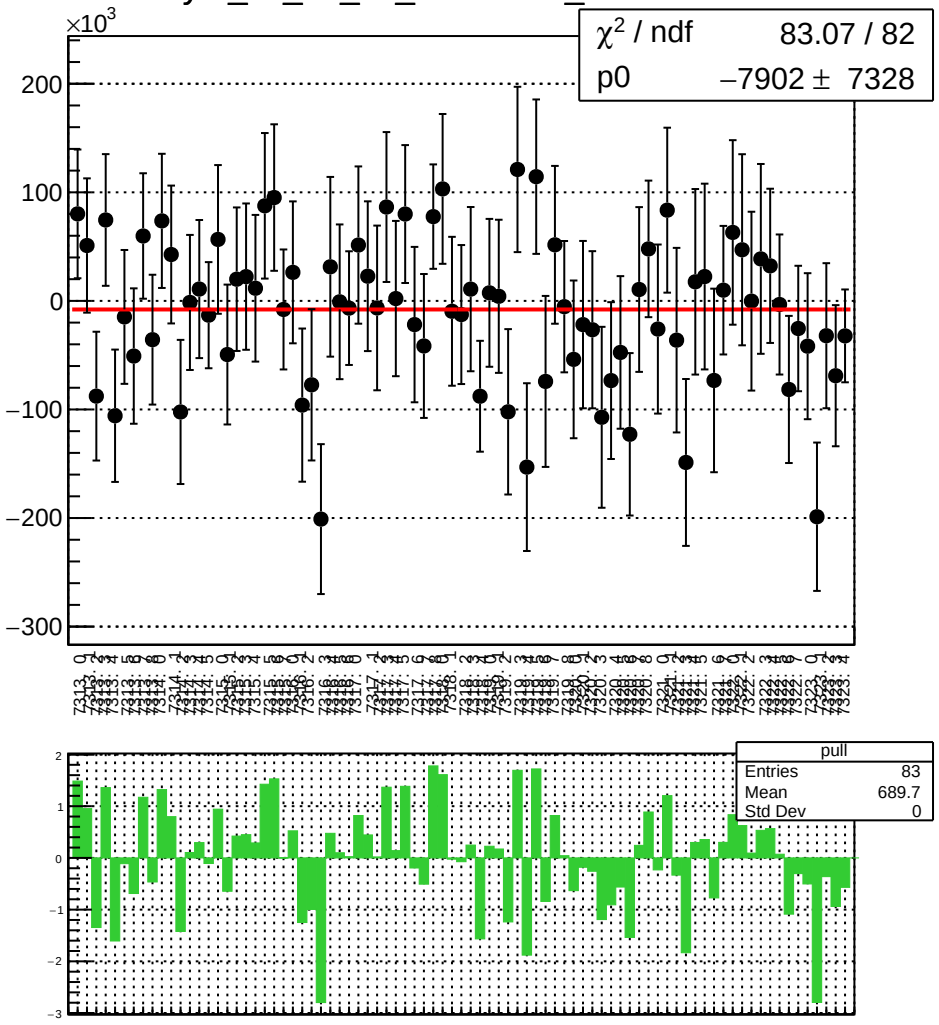

pull1D
Entries 83
Mean −0.00417
Std Dev 0.9951

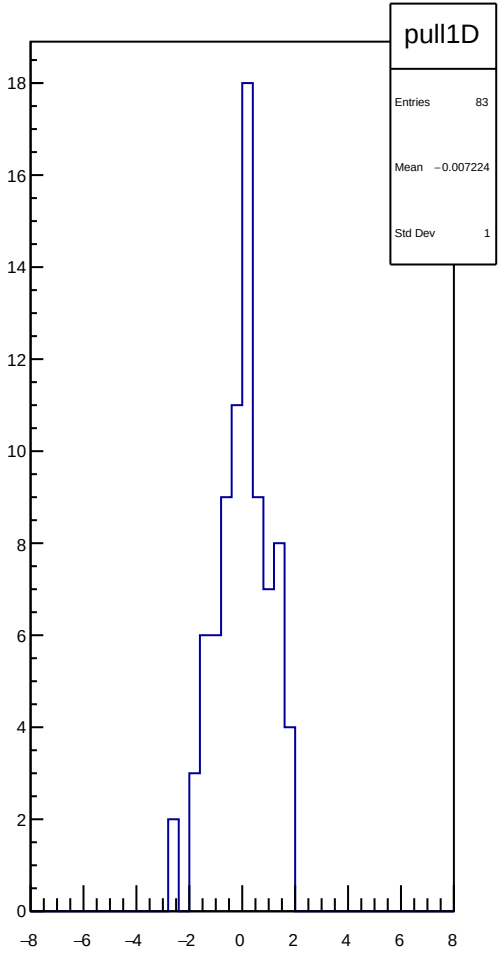

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 82
p0 5513 ± 4.364
7000
6500
6000
5500
5000
4500
4000

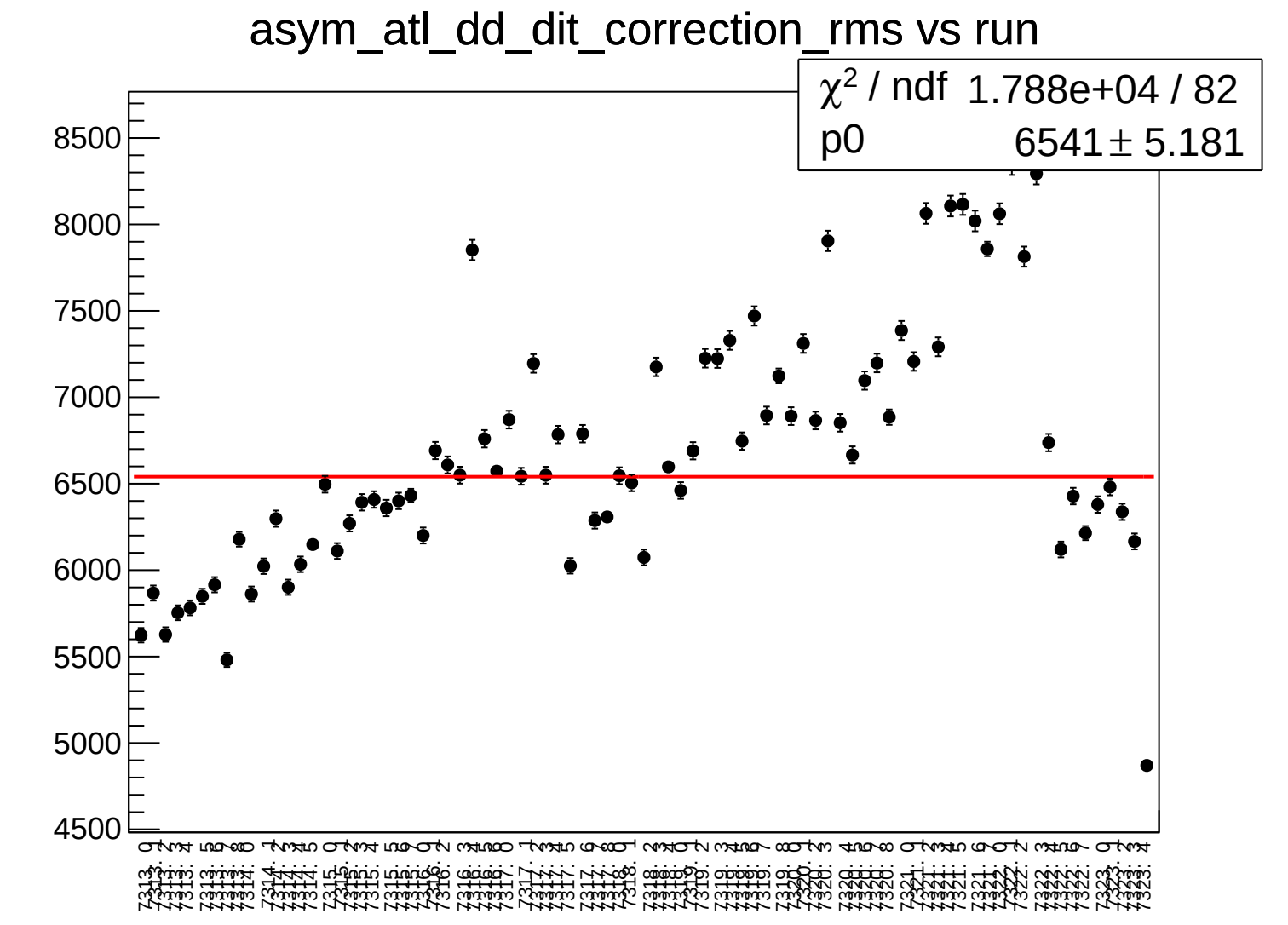

dit_asym_atl_dd_mean vs run
χ² / ndf 95.15 / 82
p0 −612.4 ± 2086
pull
Entries 83
Mean 372.7
Std Dev 0

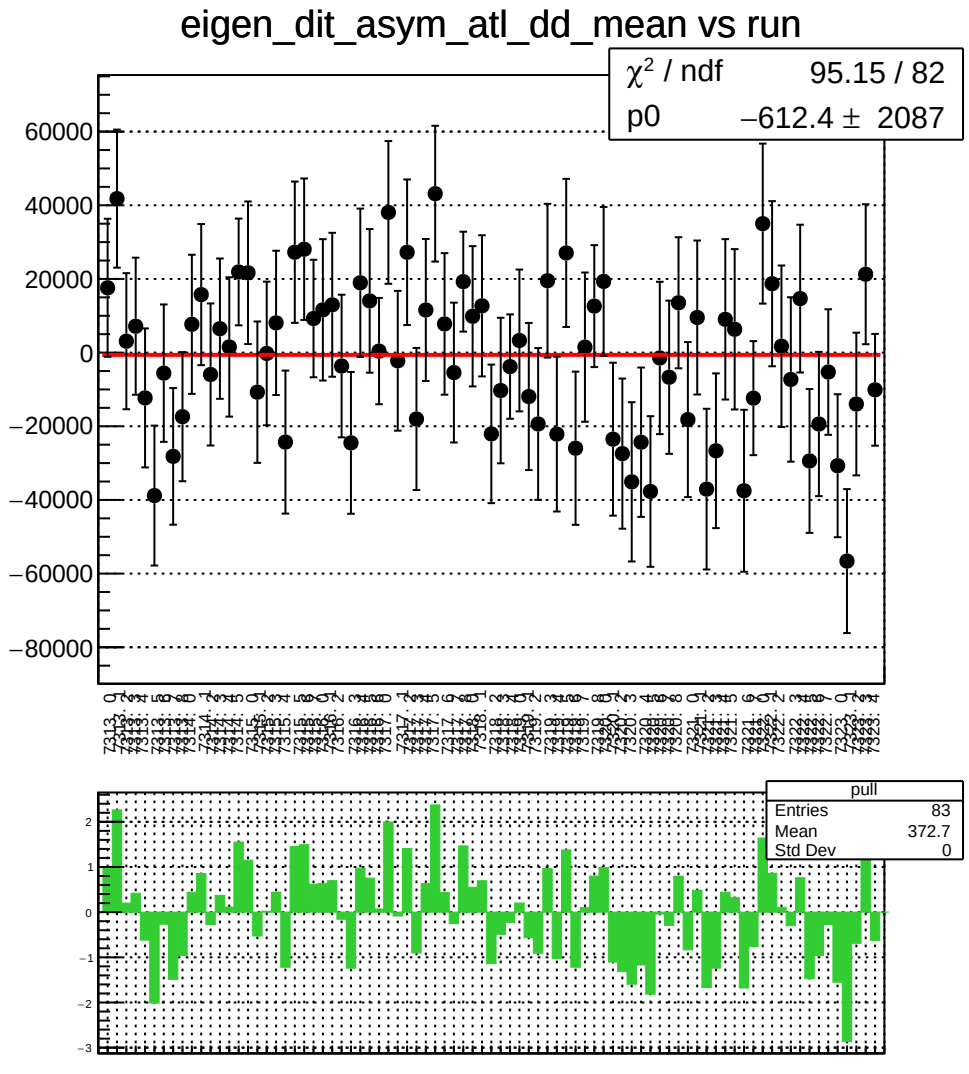

pull1D
Entries 83
Mean −0.02134
Std Dev 1.07

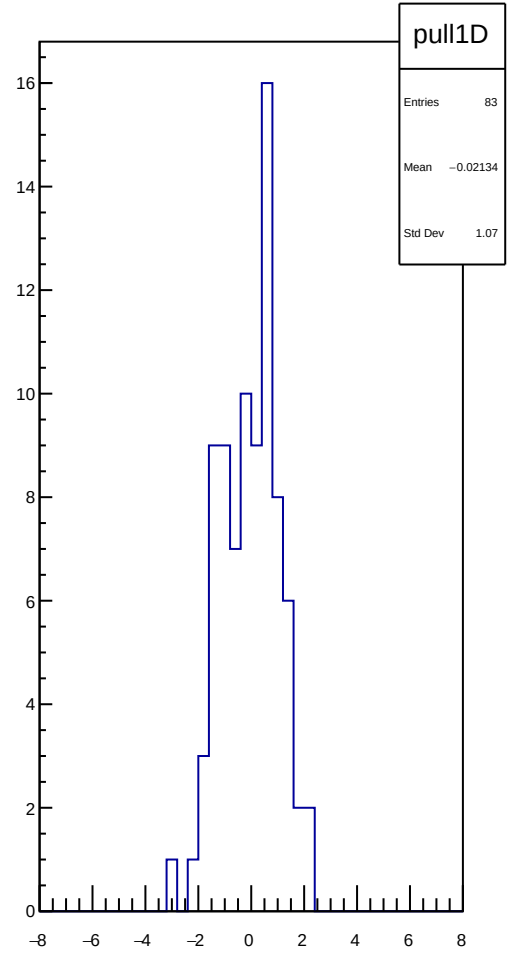

dit_asym_atl_dd_rms vs run
χ² / ndf 3977 / 82
p0 1871 ± 1.475
2100
2000
1900
1800
1700

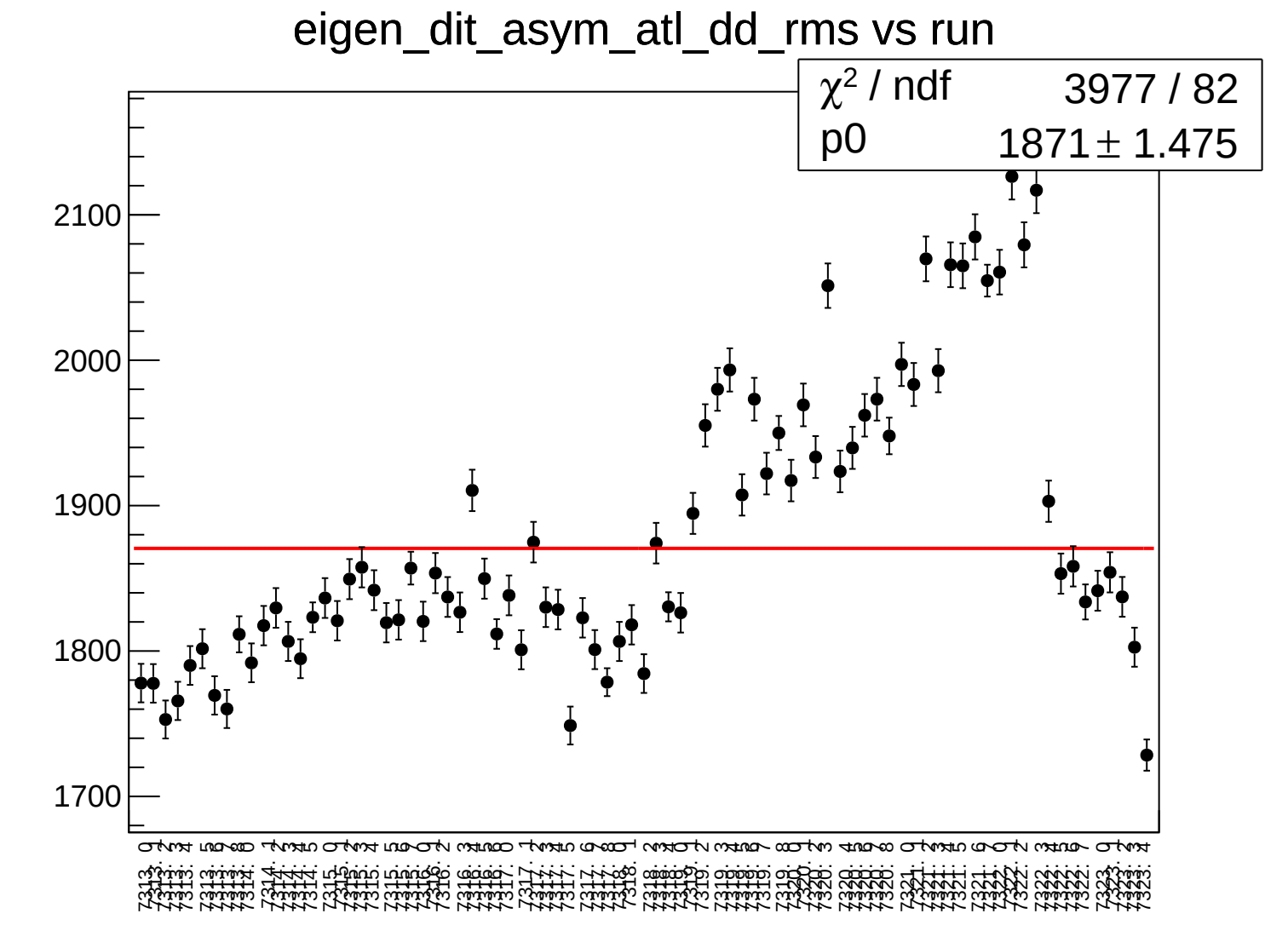

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.07 / 82
p0 −7902 ± 7328
200
100
0
−100
−200
−300
pull
Entries 83
Mean 689.7
Std Dev 0
2
1
0
−1
−2
−3

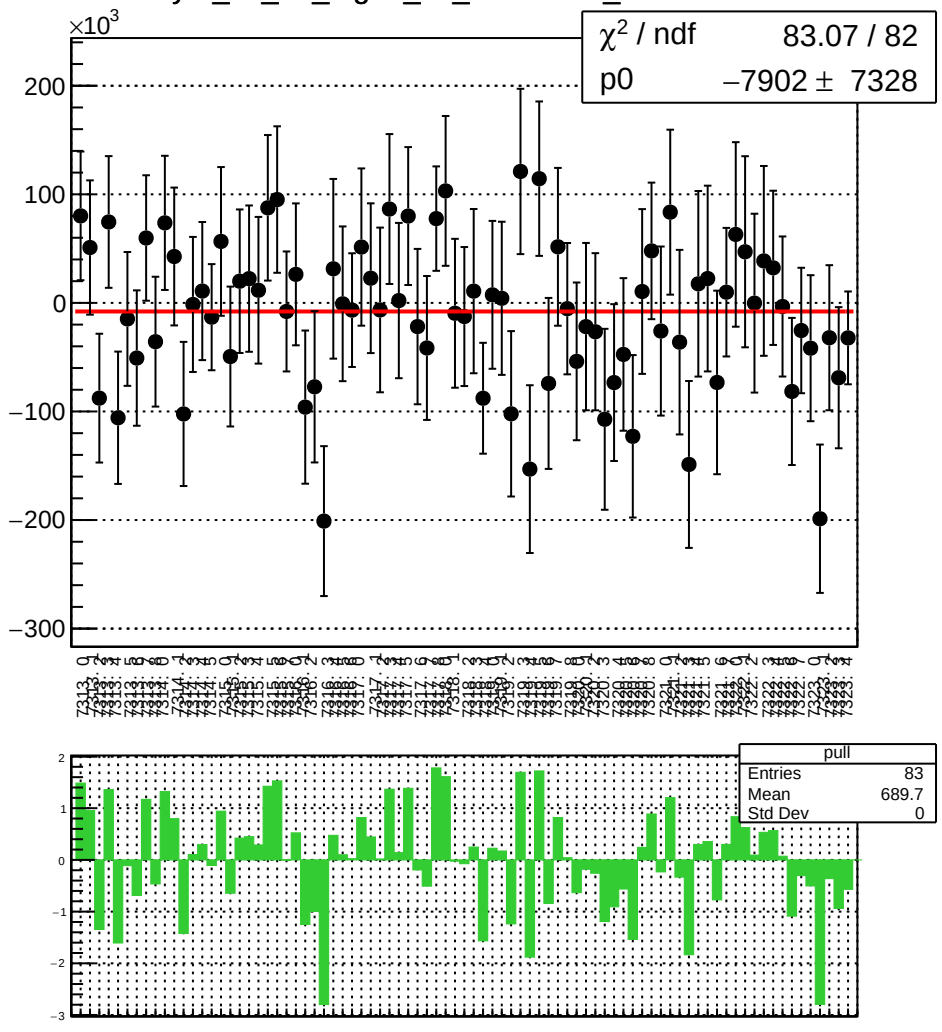

pull1D
Entries 83
Mean −0.007224
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

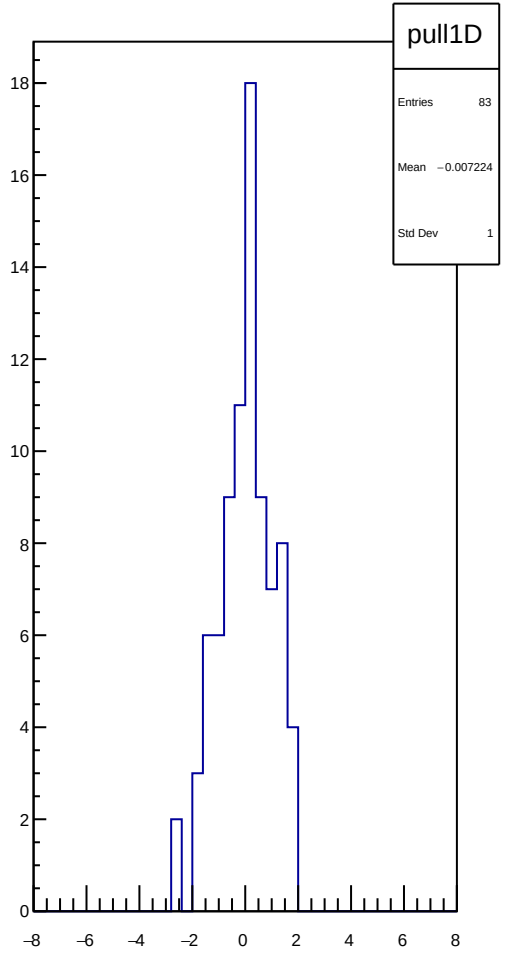

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.788e+04 / 82
p0 6541 ± 5.181
8500
8000
7500
7000
6500
6000
5500
5000
4500

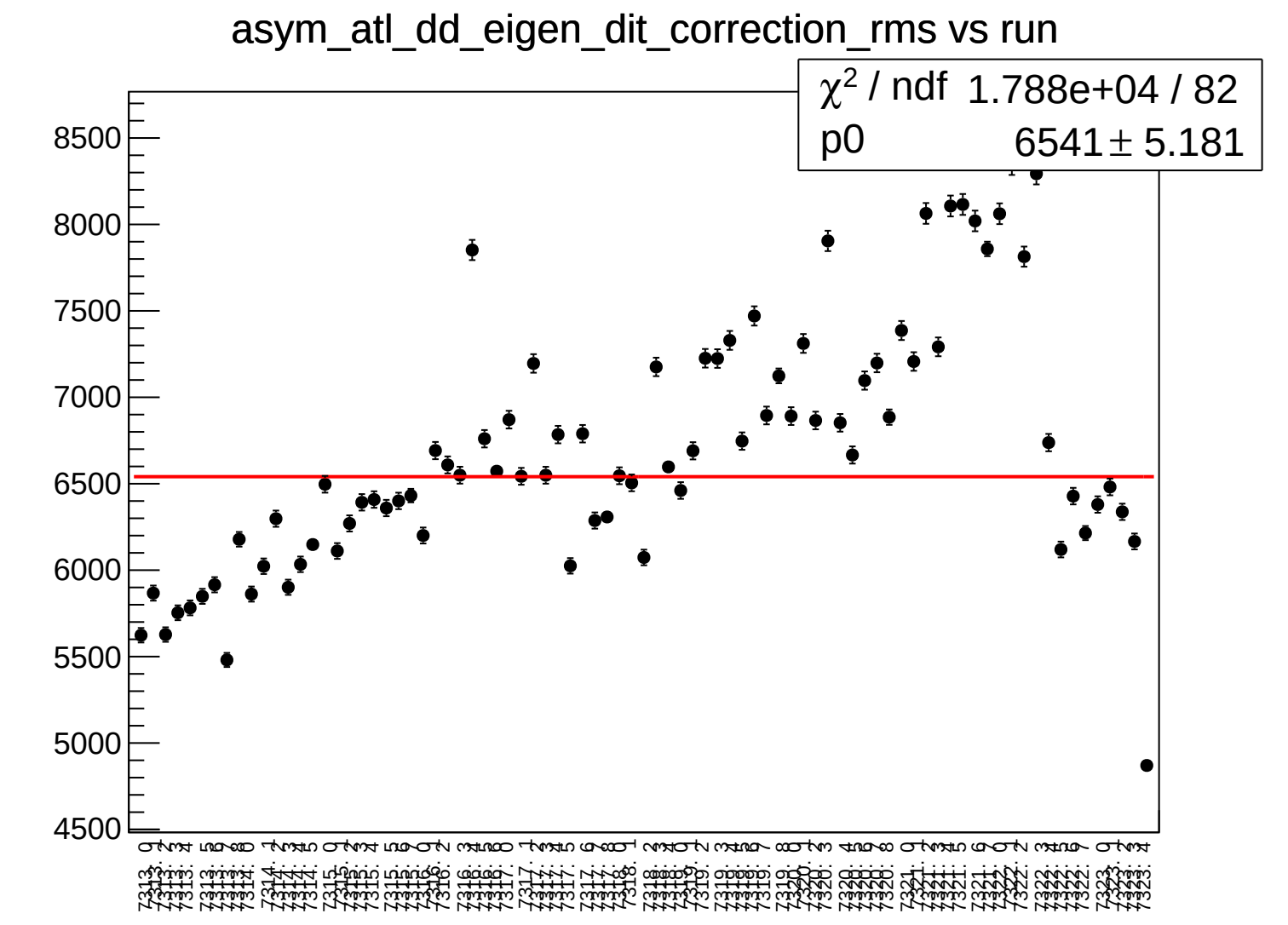

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 95.15 / 82
p0 −612.4 ± 2087
pull
Entries 83
Mean 372.7
Std Dev 0

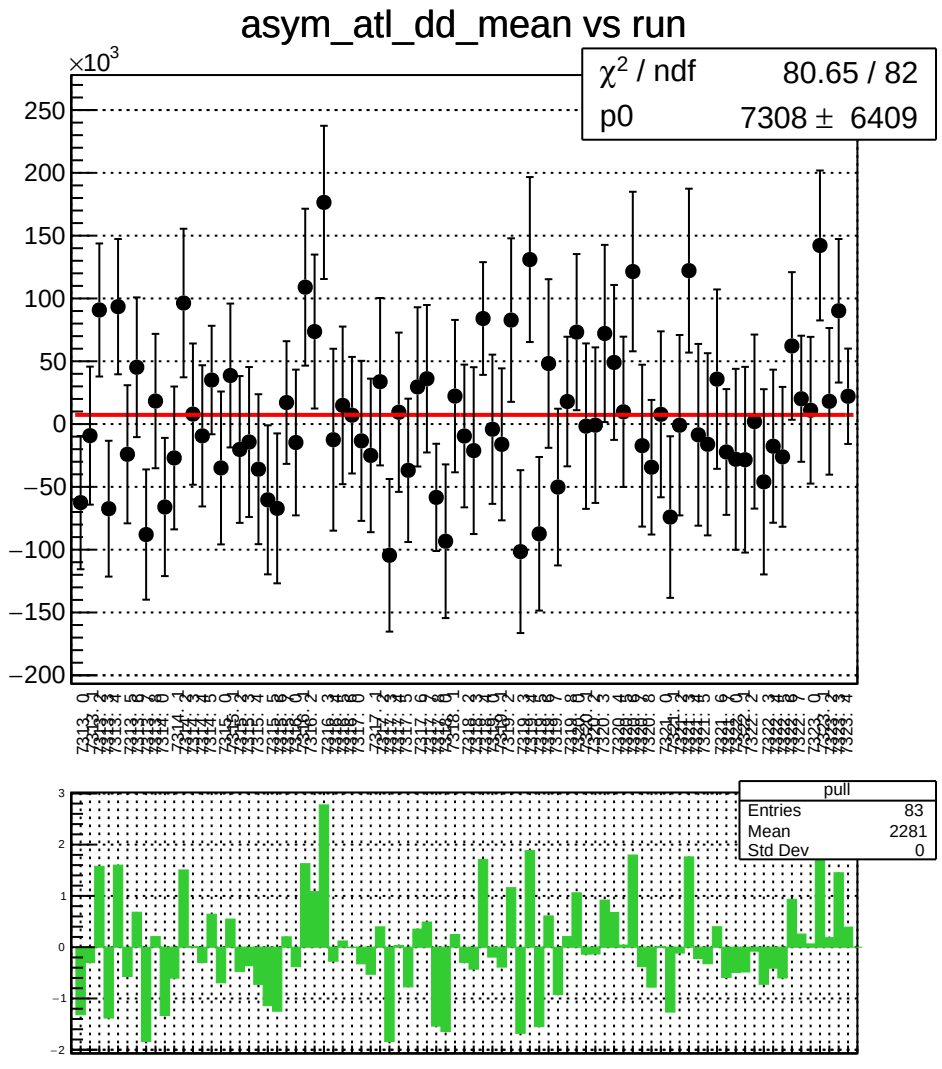

pull1D
Entries 83
Mean −0.02134
Std Dev 1.07

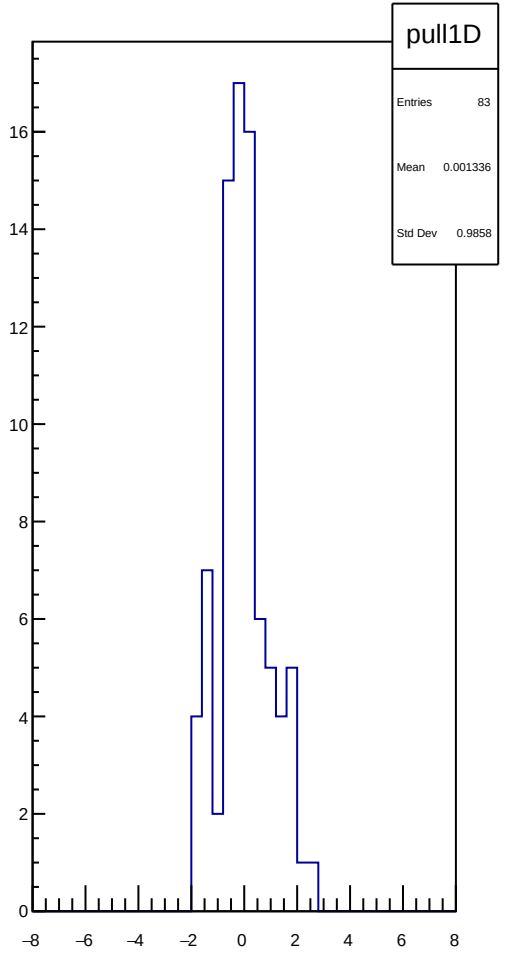

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 3977 / 82
p0 1871 ± 1.475
2100
2000
1900
1800
1700

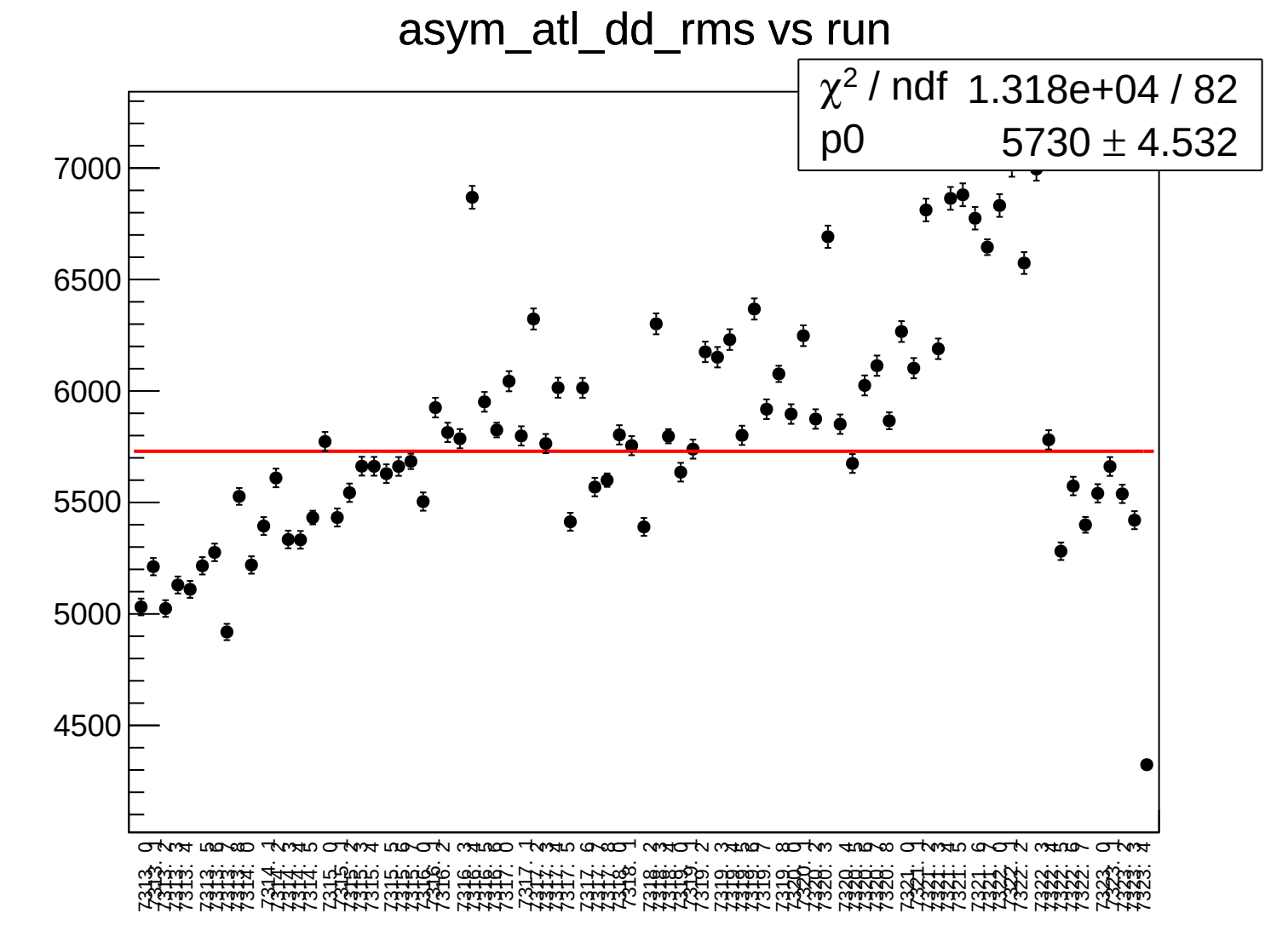

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.07 / 82
p0 −7902 ± 7328
200
100
0
−100
−200
−300
pull
Entries 83
Mean 689.7
Std Dev 0
2
1
0
−1
−2
−3

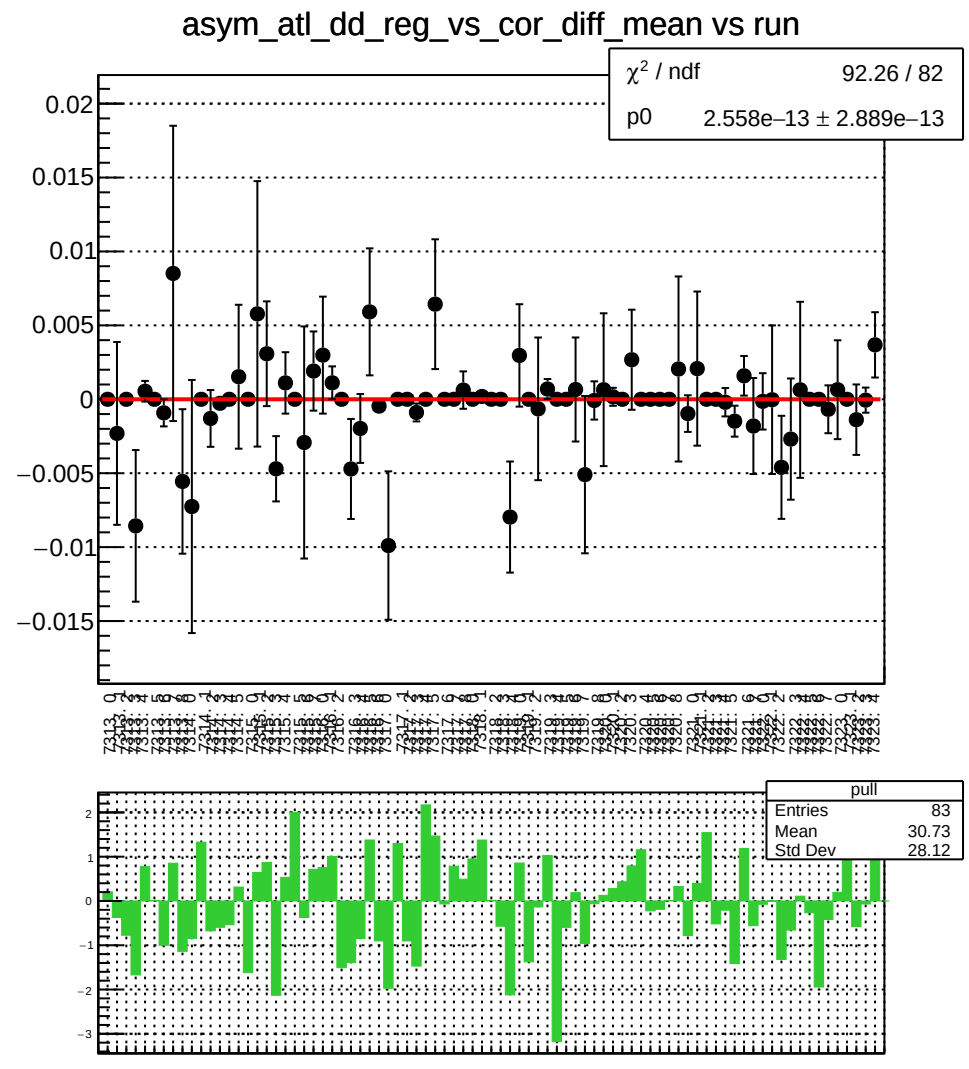

pull1D
Entries 83
Mean −0.007224
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

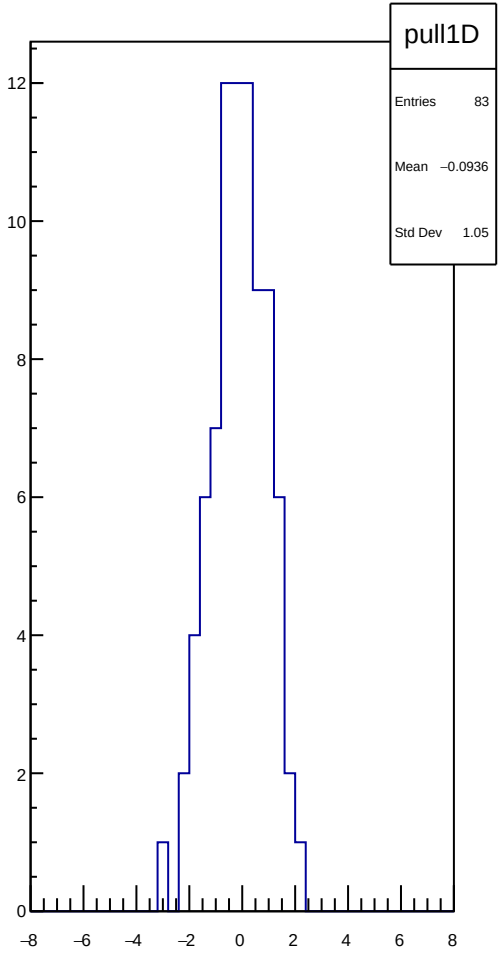

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.788e+04 / 82
p0 6541 ± 5.181
8500
8000
7500
7000
6500
6000
5500
5000
4500

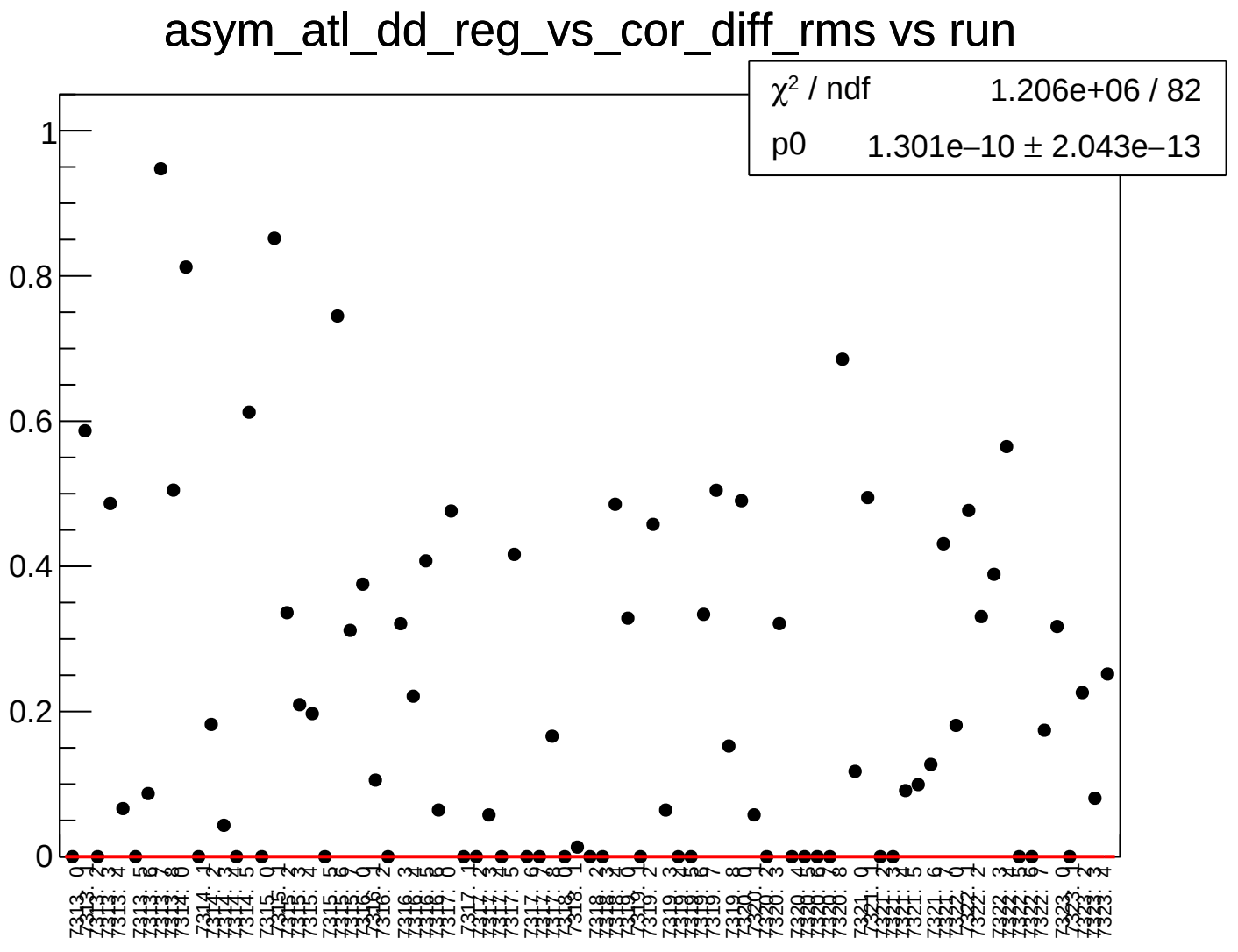

asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.65 / 82
p0 7308 ± 6409
pull
Entries 83
Mean 2281
Std Dev 0

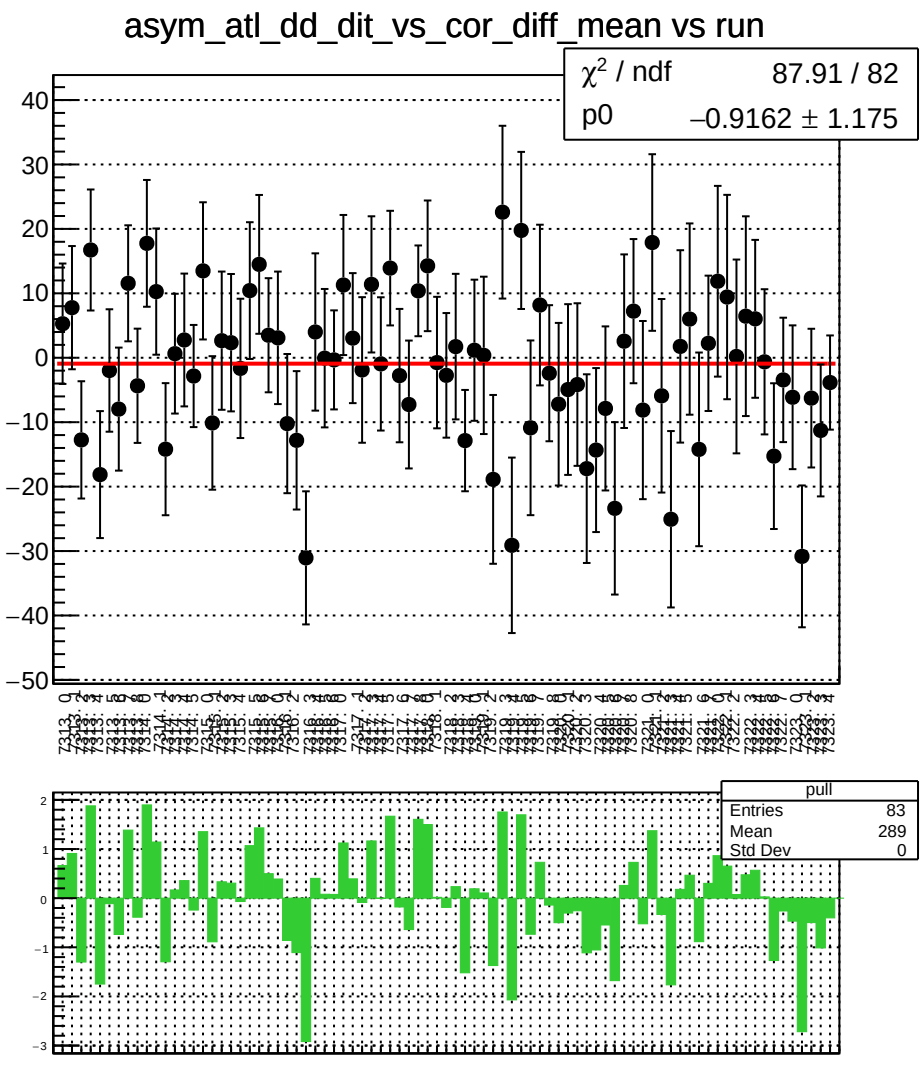

pull1D
Entries 83
Mean 0.001336
Std Dev 0.9858

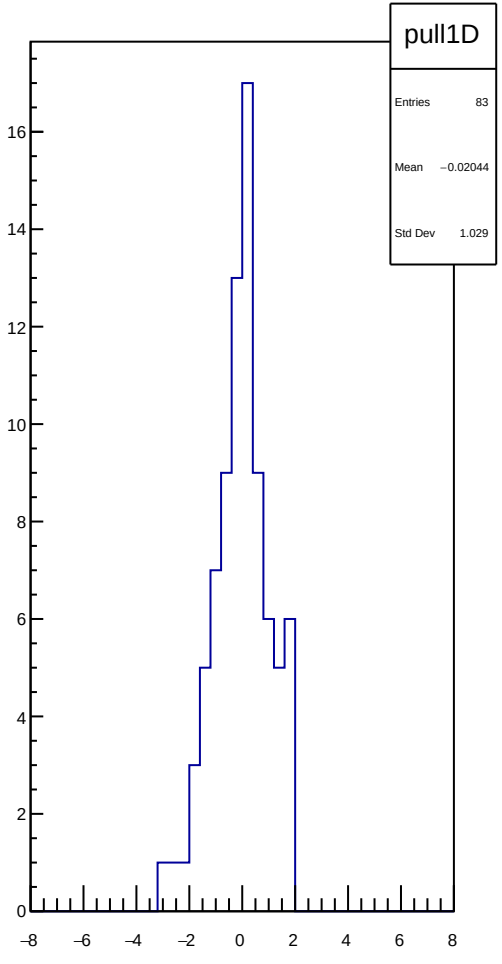

asym_atl_dd_rms vs run
χ² / ndf 1.318e+04 / 82
p0 5730 ± 4.532
7000
6500
6000
5500
5000
4500

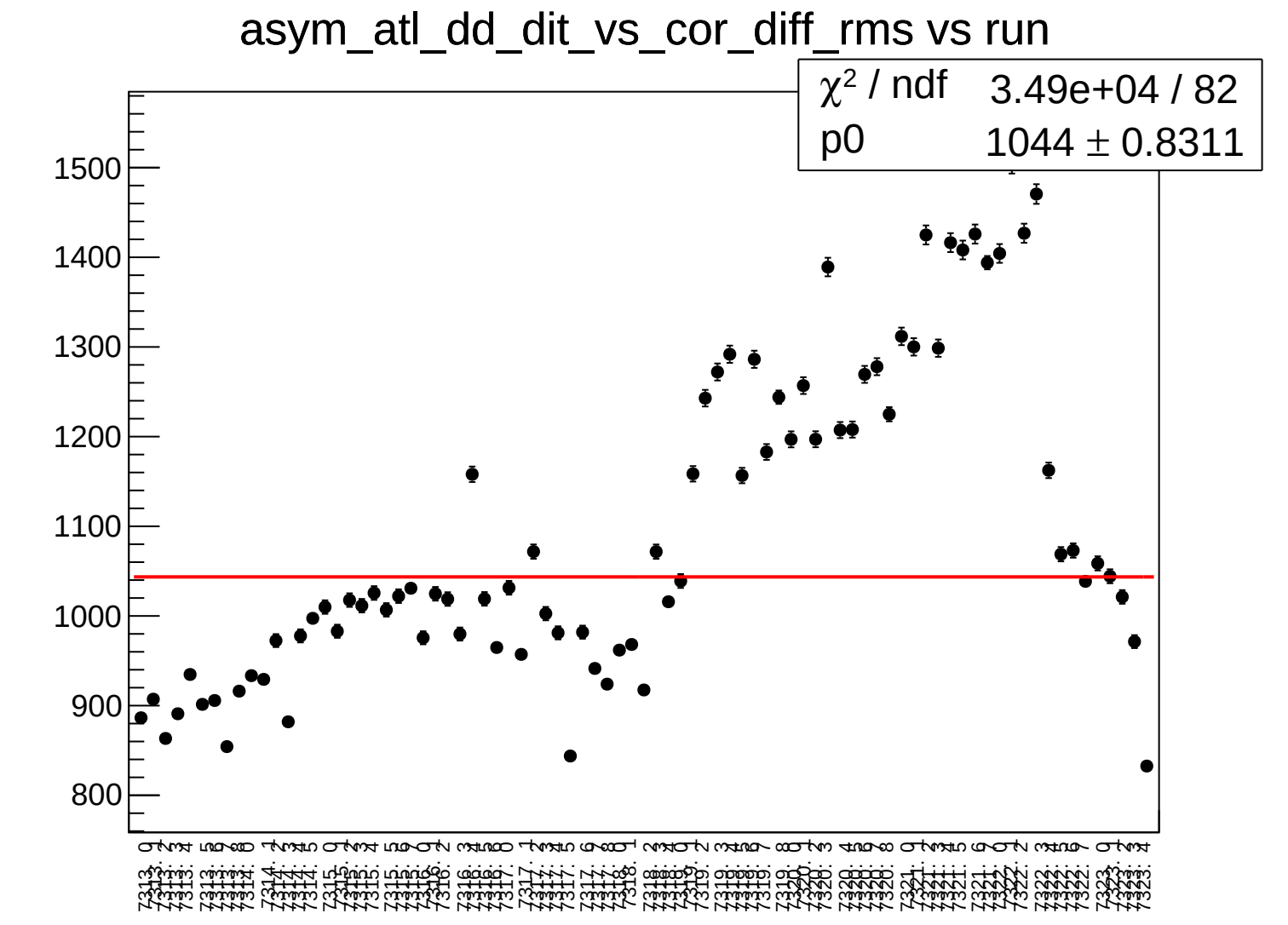

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.26 / 82
p0 2.558e−13 ± 2.889e−13
pull
Entries 83
Mean 30.73
Std Dev 28.12

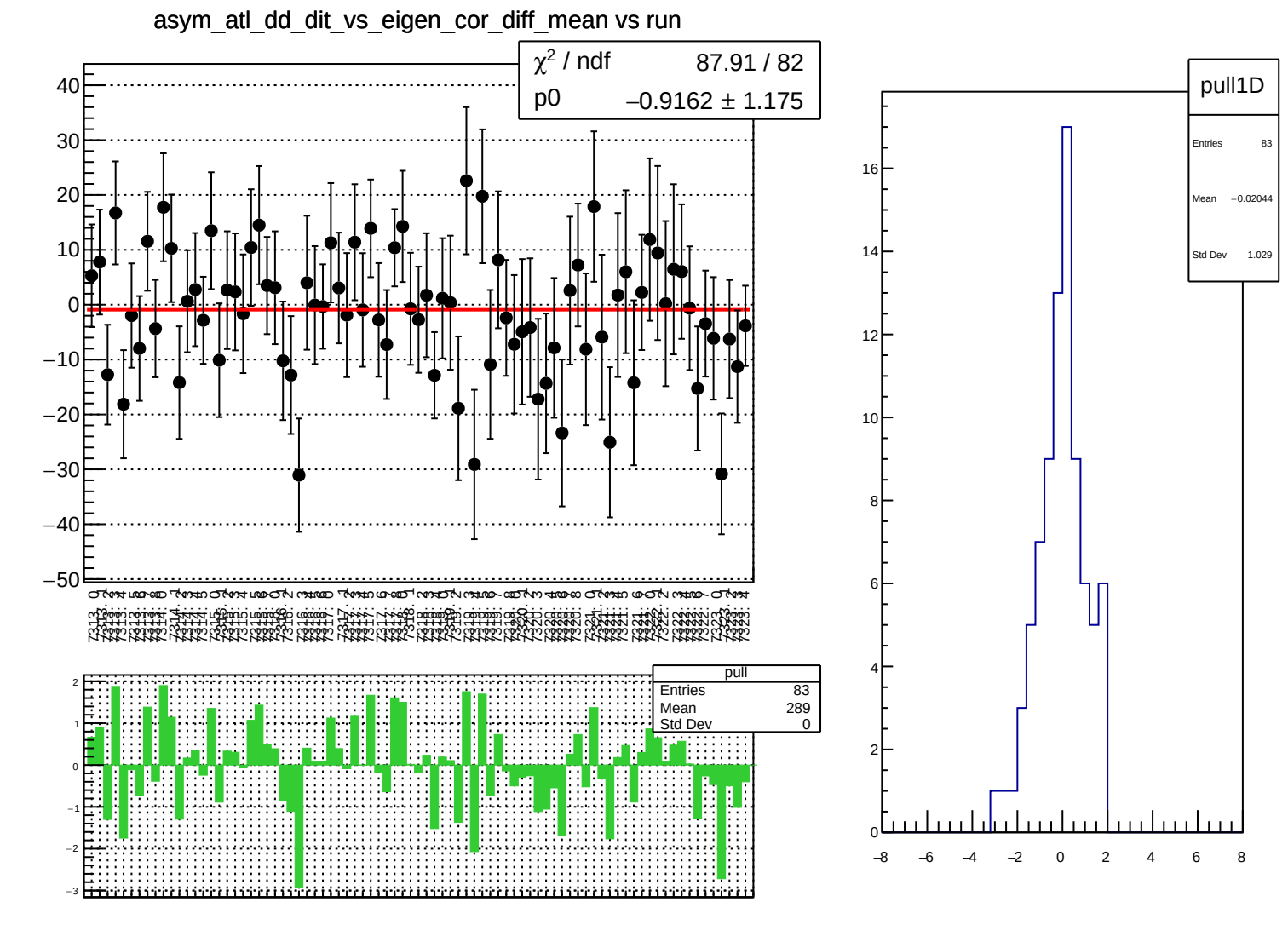

pull1D
Entries 83
Mean −0.0936
Std Dev 1.05

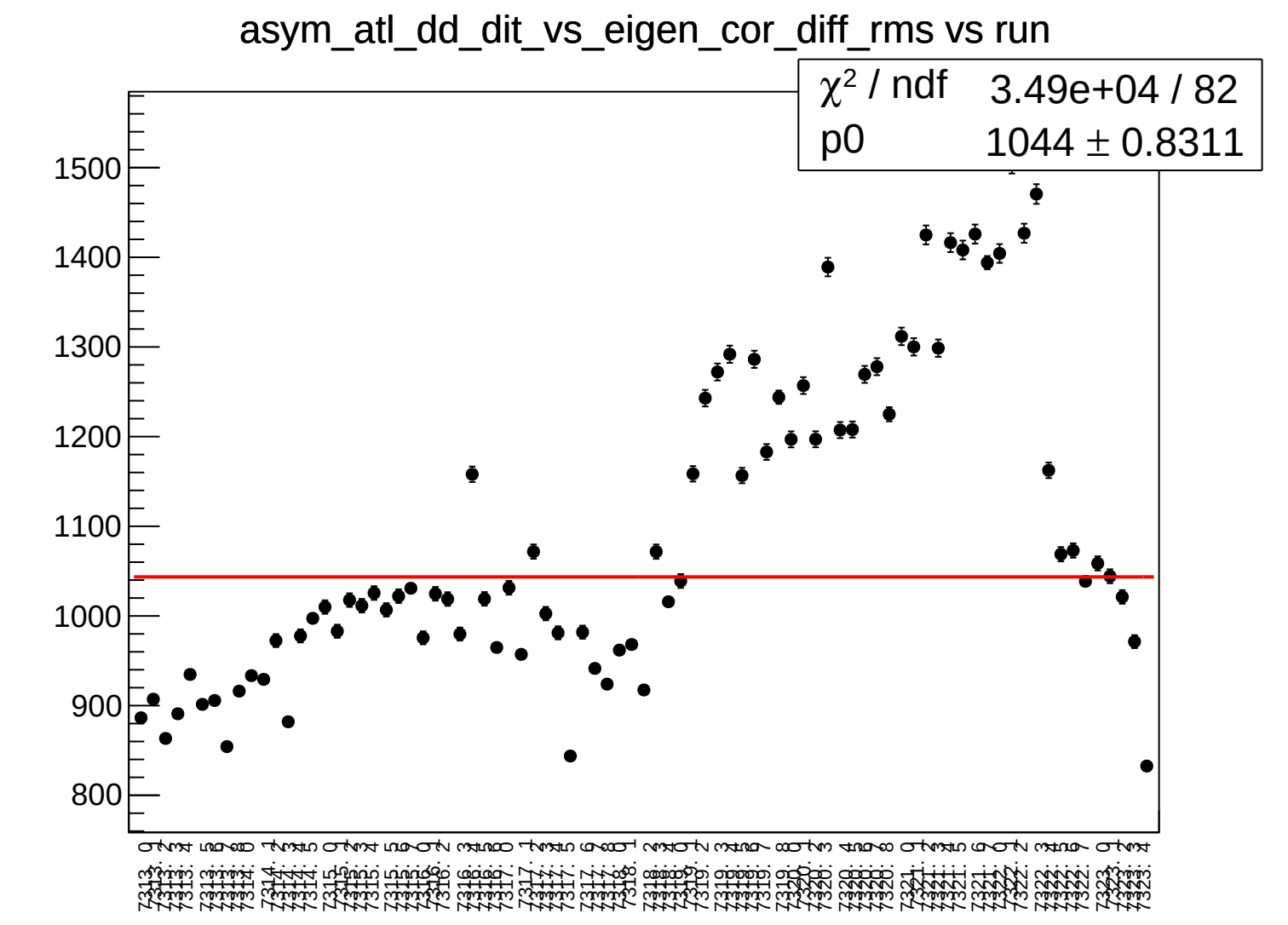

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.206e+06 / 82
p0 1.301e−10 ± 2.043e−13
1
0.8
0.6
0.4
0.2
0

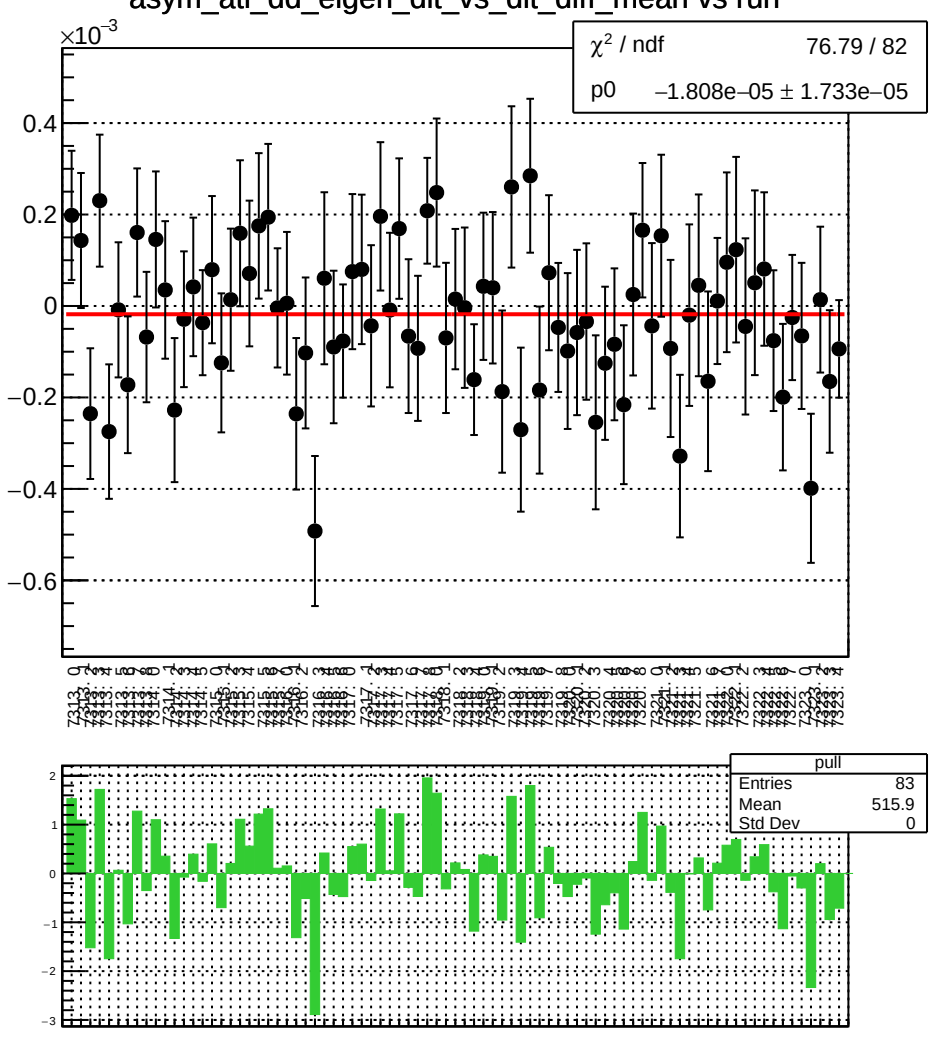

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.91 / 82
p0 −0.9162 ± 1.175
pull
Entries 83
Mean 289
Std Dev 0

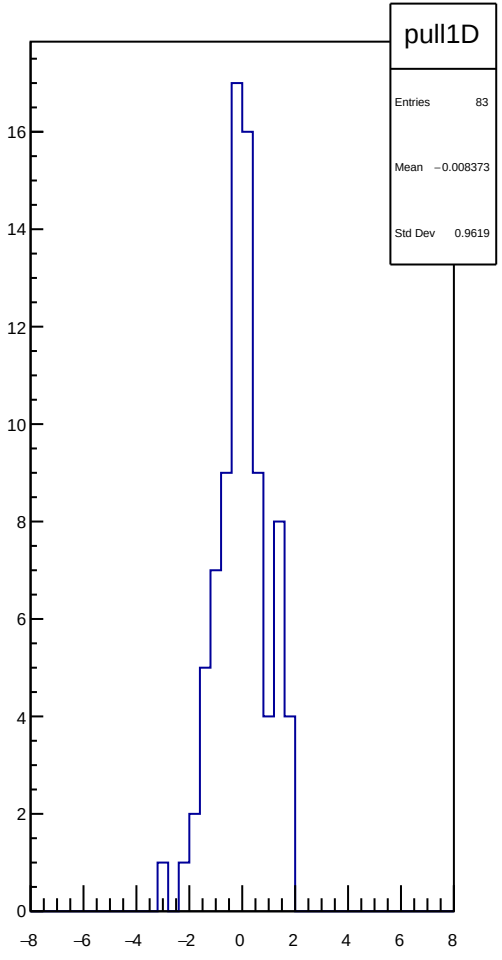

pull1D
Entries 83
Mean −0.02044
Std Dev 1.029

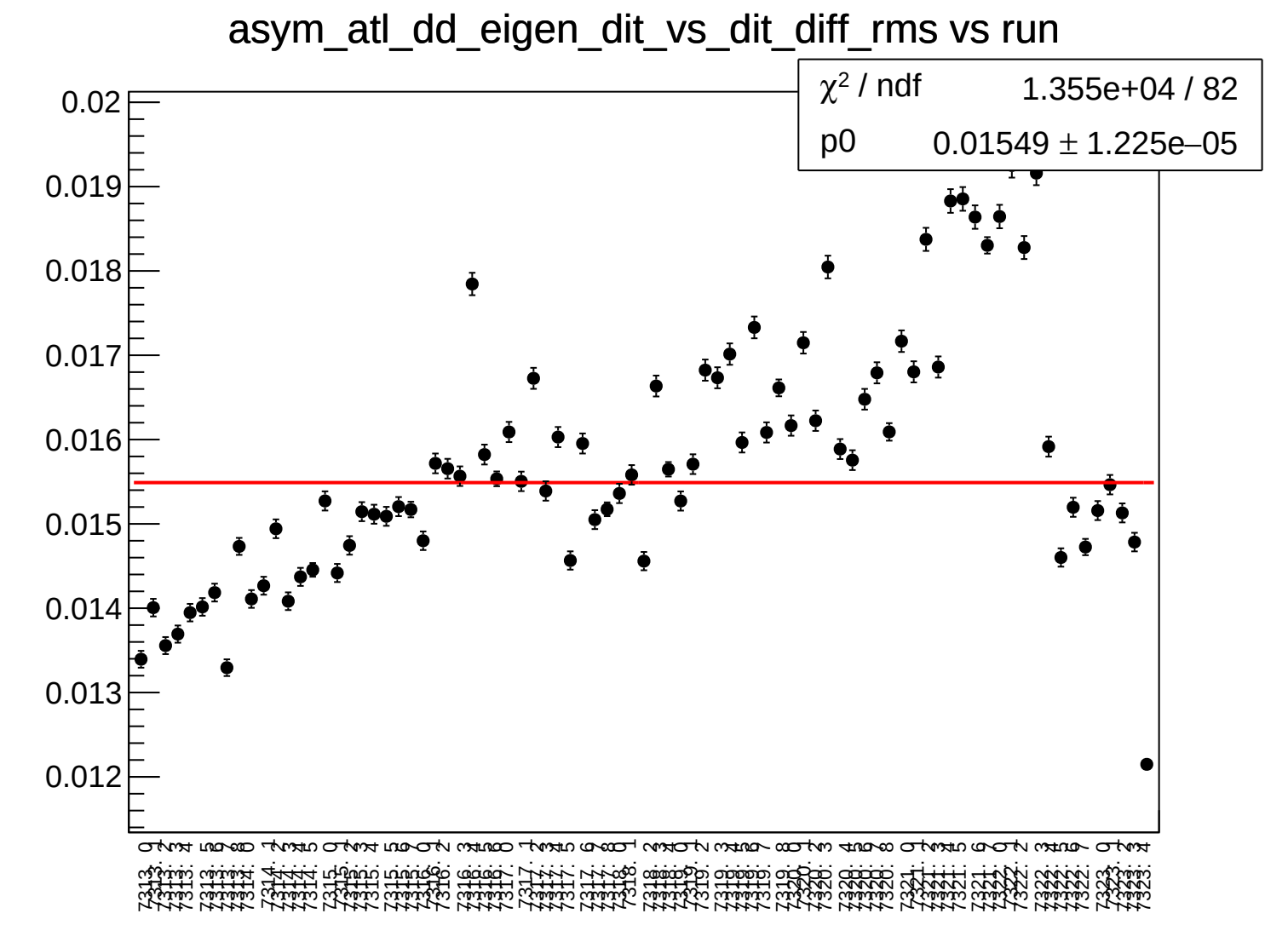

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.49e+04 / 82
p0 1044 ± 0.8311
1500
1400
1300
1200
1100
1000
900
800

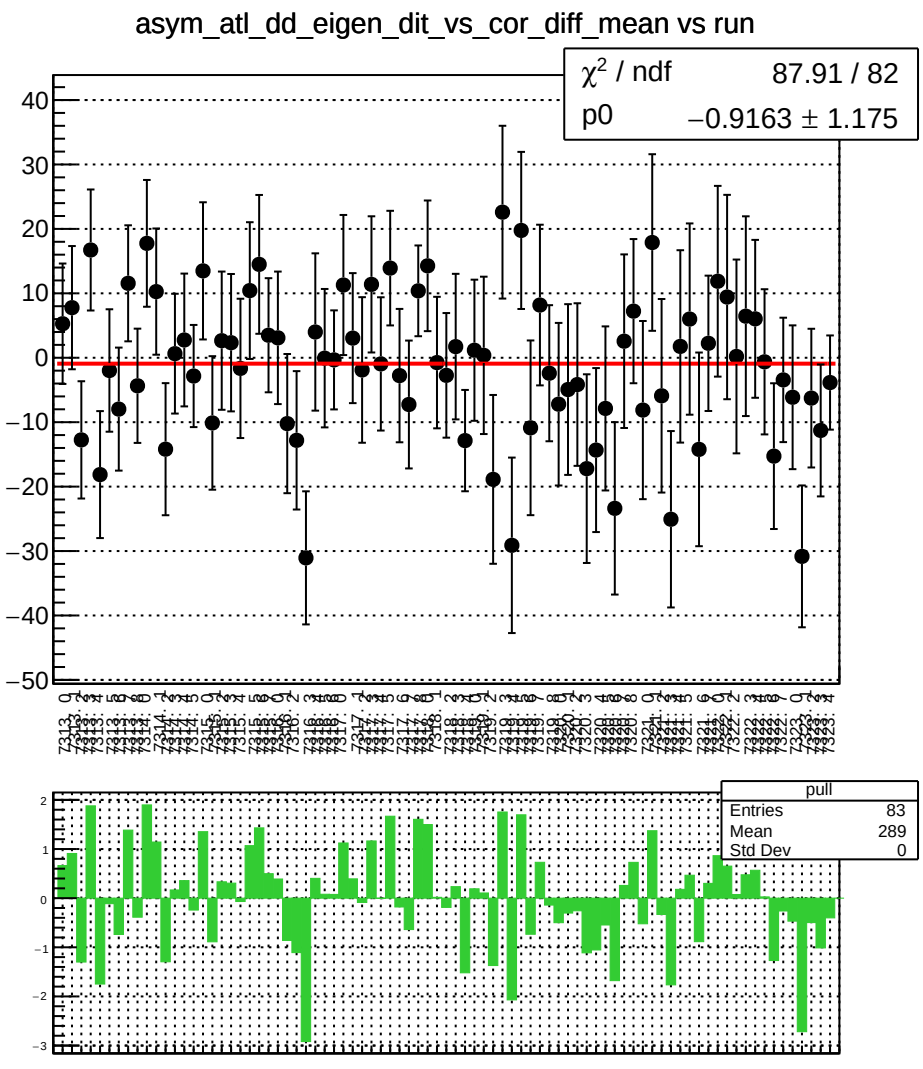

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.91 / 82
p0 −0.9162 ± 1.175
pull
Entries 83
Mean 289
Std Dev 0
pull1D
Entries 83
Mean −0.02044
Std Dev 1.029

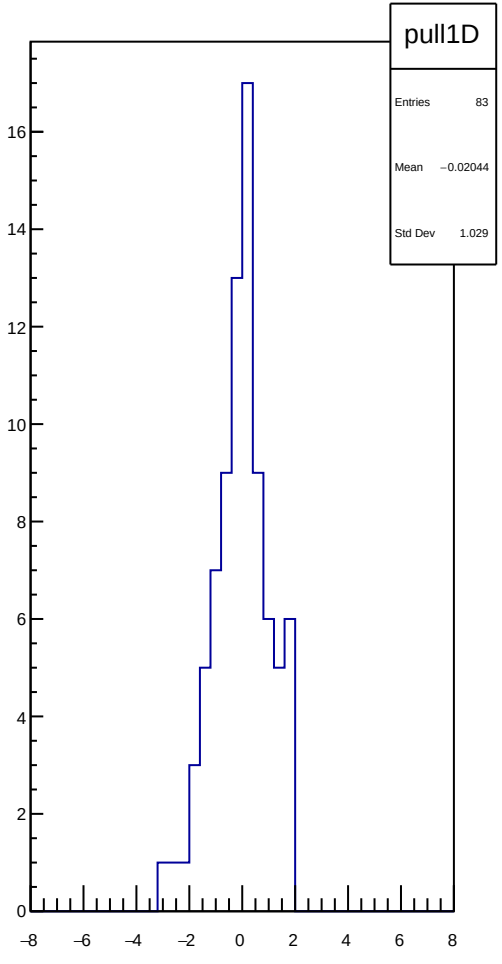

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.49e+04 / 82
p0 1044 ± 0.8311
1500
1400
1300
1200
1100
1000
900
800

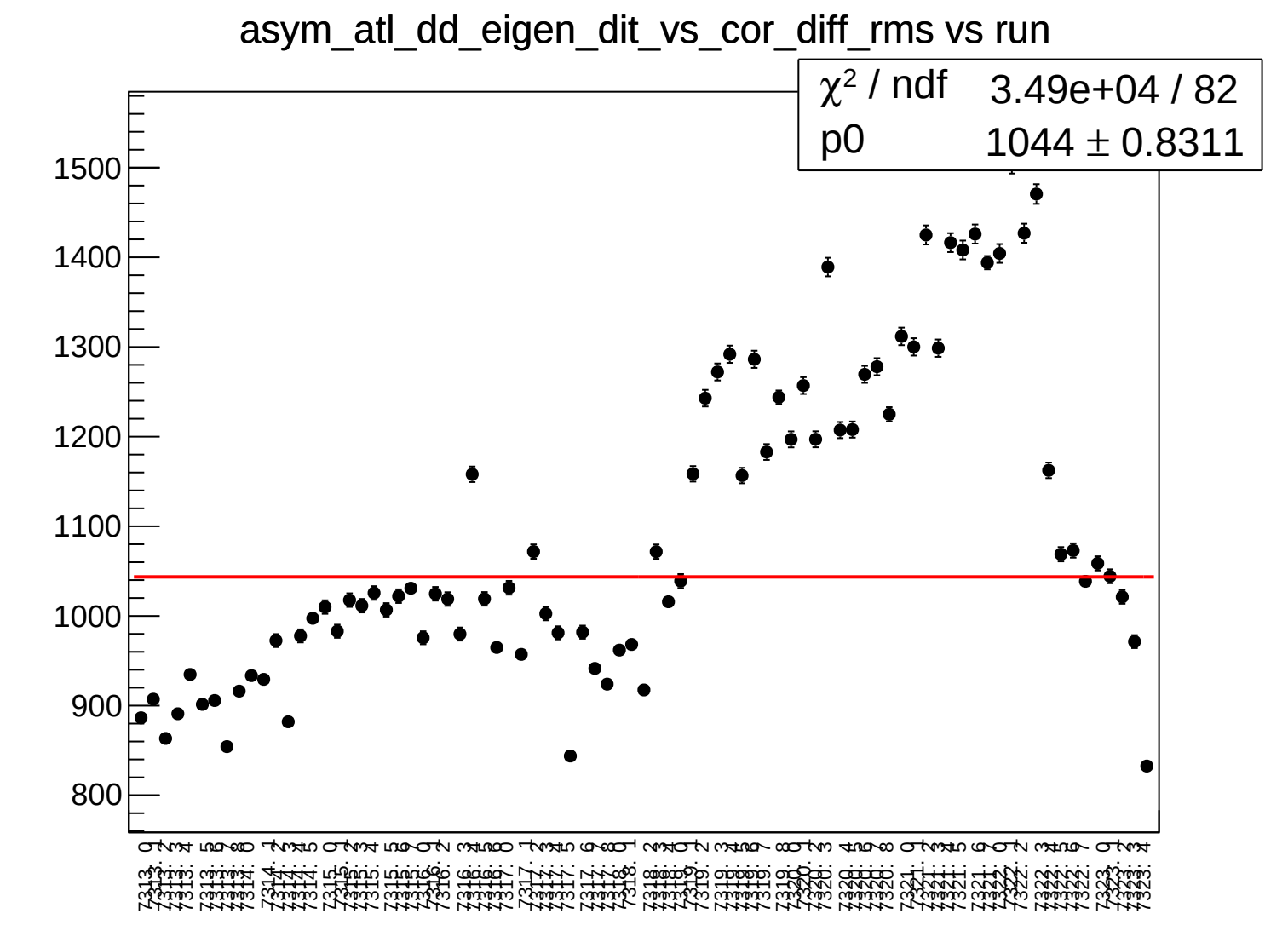

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.79 / 82
p0 −1.808e−05 ± 1.733e−05
pull
Entries 83
Mean 515.9
Std Dev 0

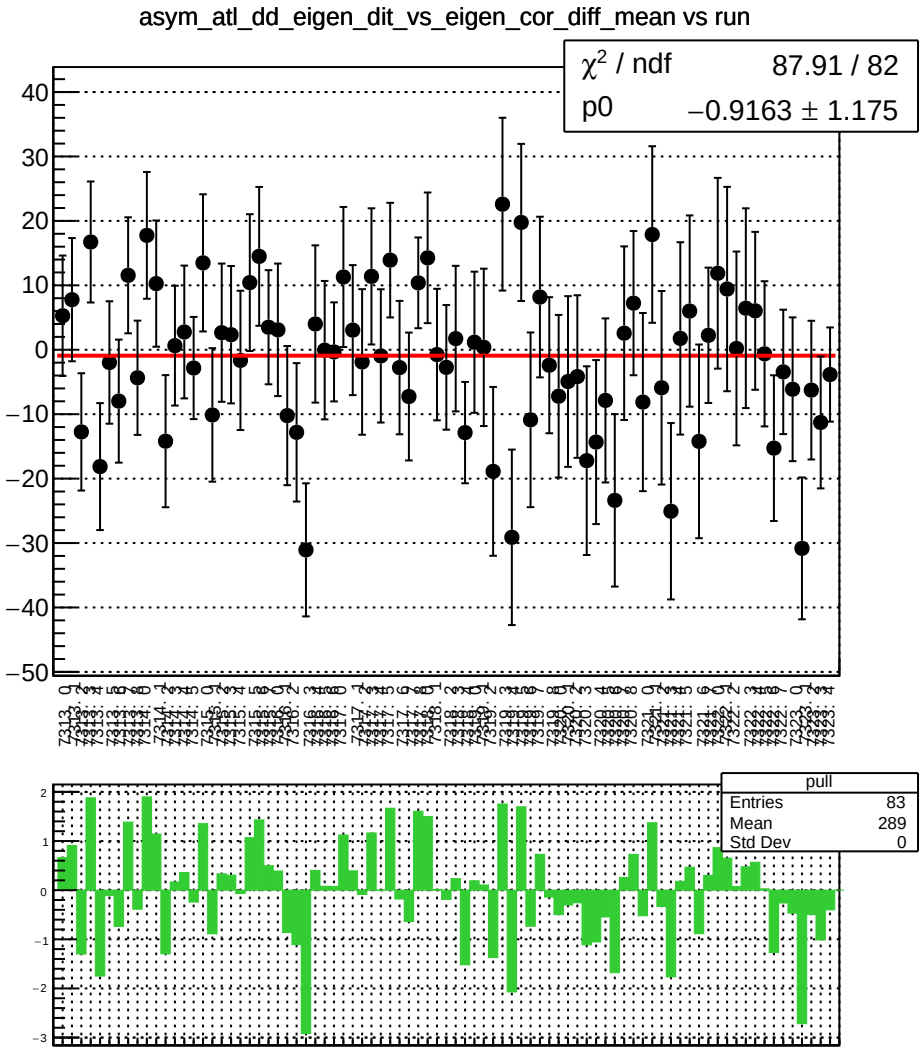

pull1D
Entries 83
Mean −0.008373
Std Dev 0.9619

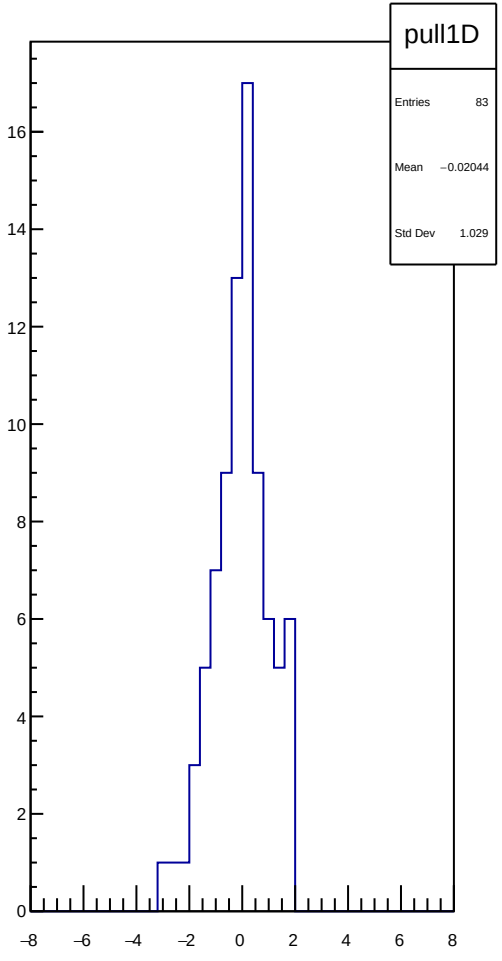

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.355e+04 / 82
p0 0.01549 ± 1.225e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

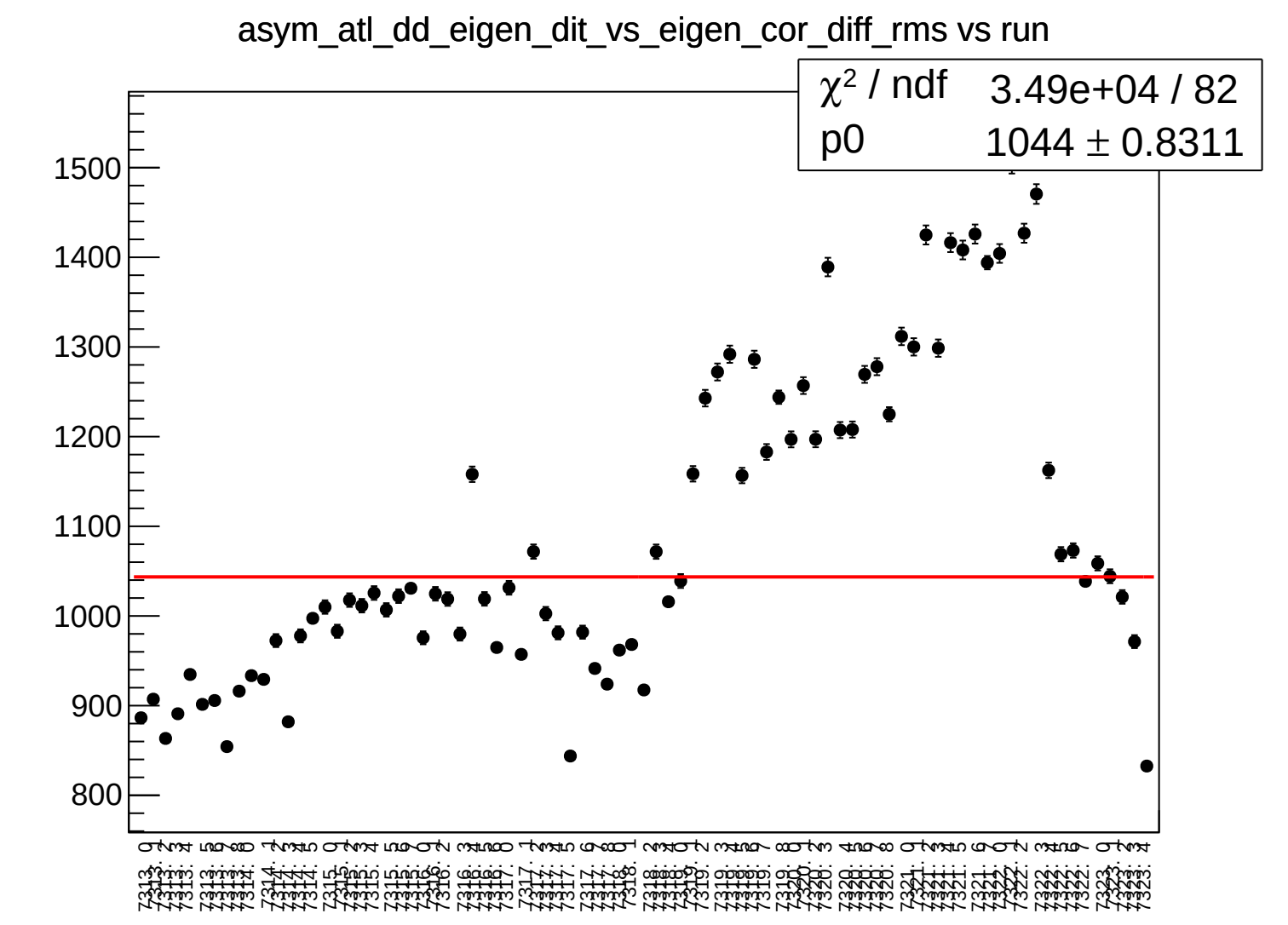

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.91 / 82
p0 −0.9163 ± 1.175
pull
Entries 83
Mean 289
Std Dev 0

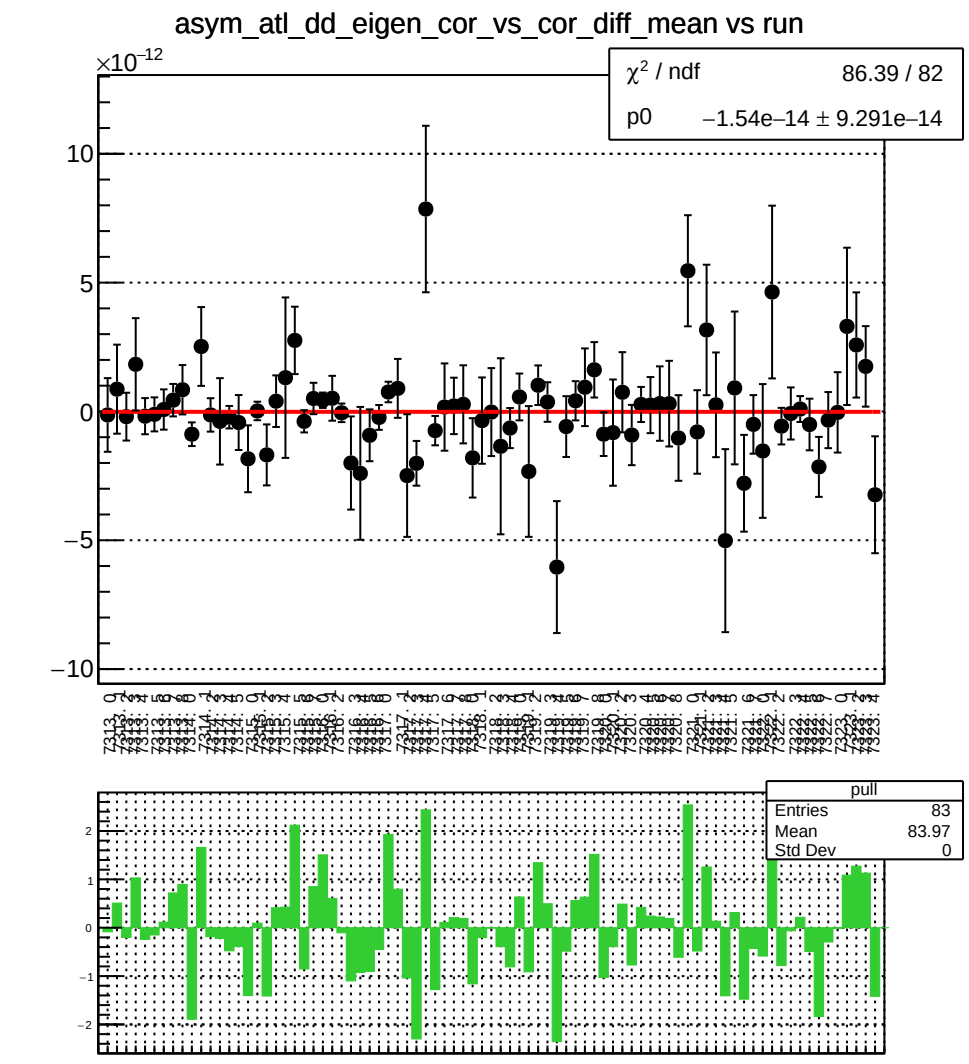

pull1D
Entries 83
Mean −0.02044
Std Dev 1.029

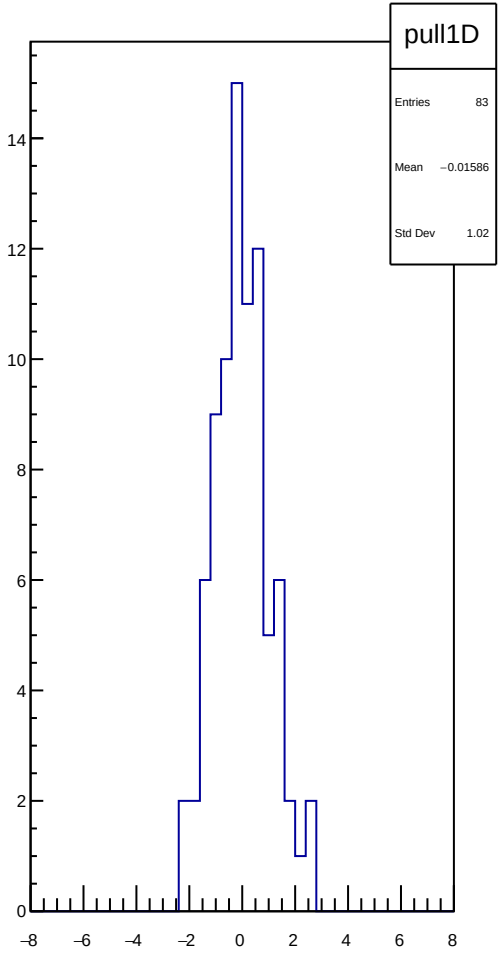

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.49e+04 / 82
p0 1044 ± 0.8311
1500
1400
1300
1200
1100
1000
900
800

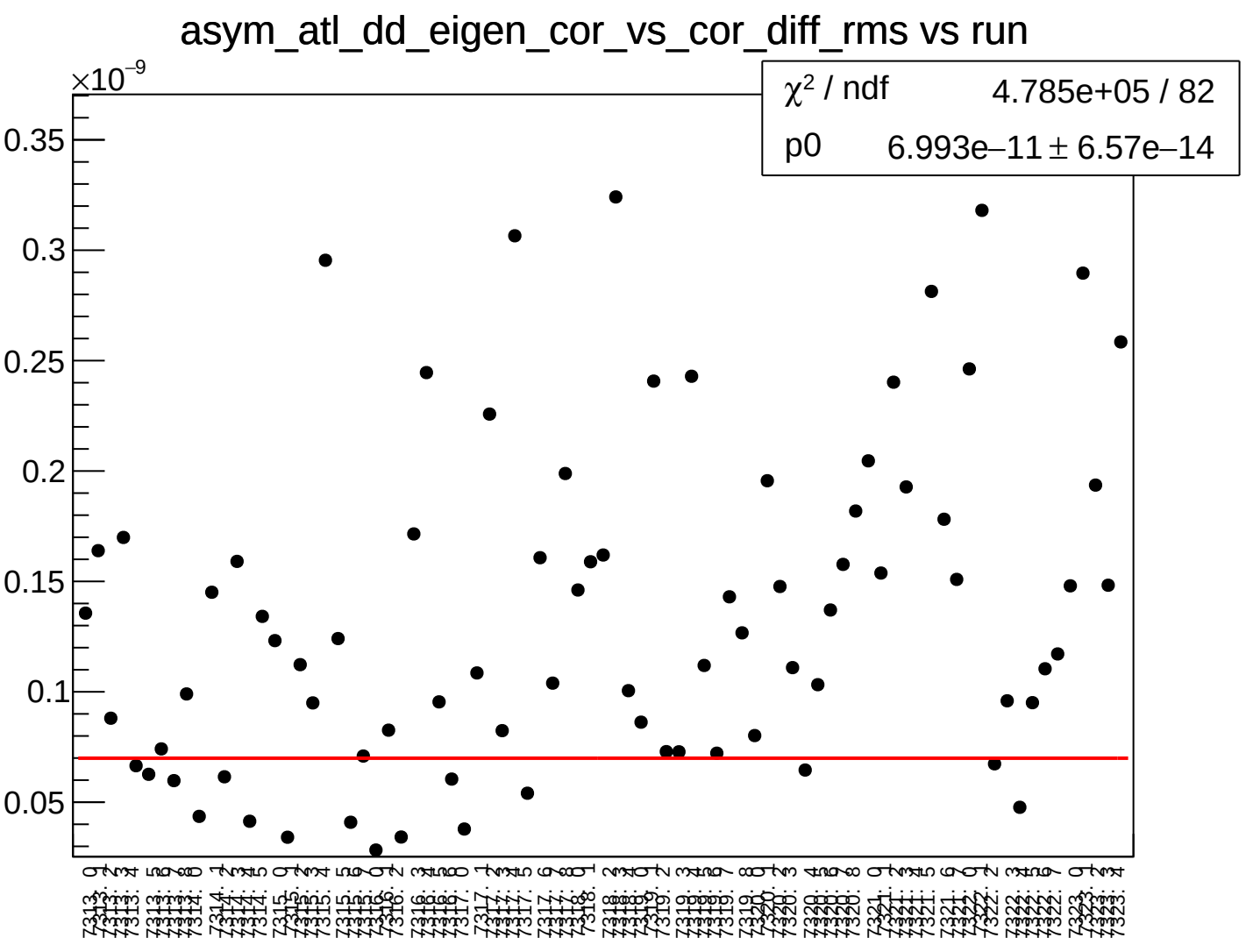

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.91 / 82
p0 −0.9163 ± 1.175
pull
Entries 83
Mean 289
Std Dev 0

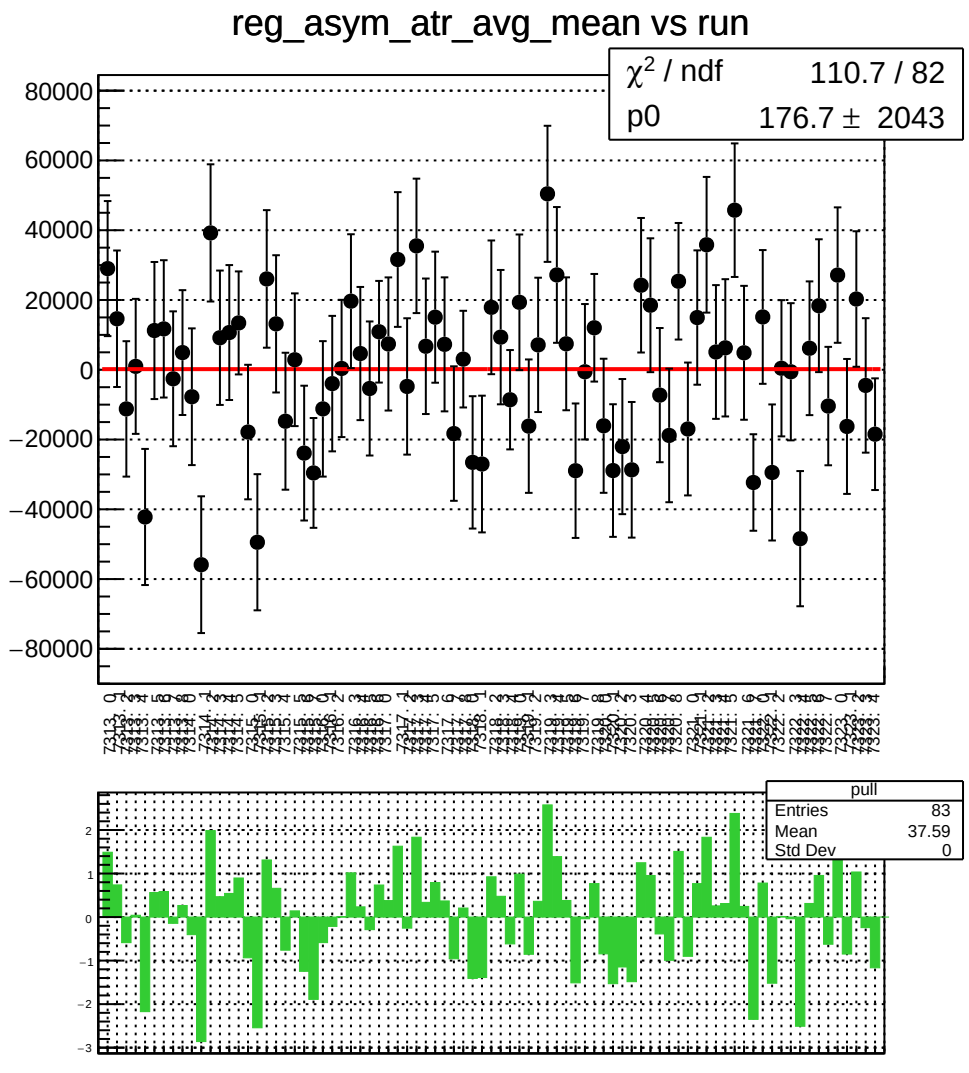

pull1D
Entries 83
Mean −0.02044
Std Dev 1.029

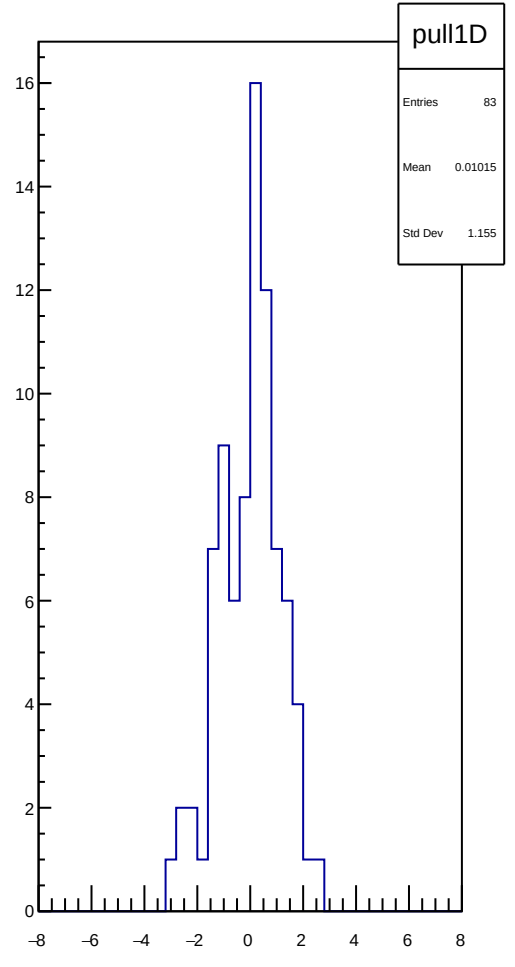

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.49e+04 / 82
p0 1044 ± 0.8311
1500
1400
1300
1200
1100
1000
900
800

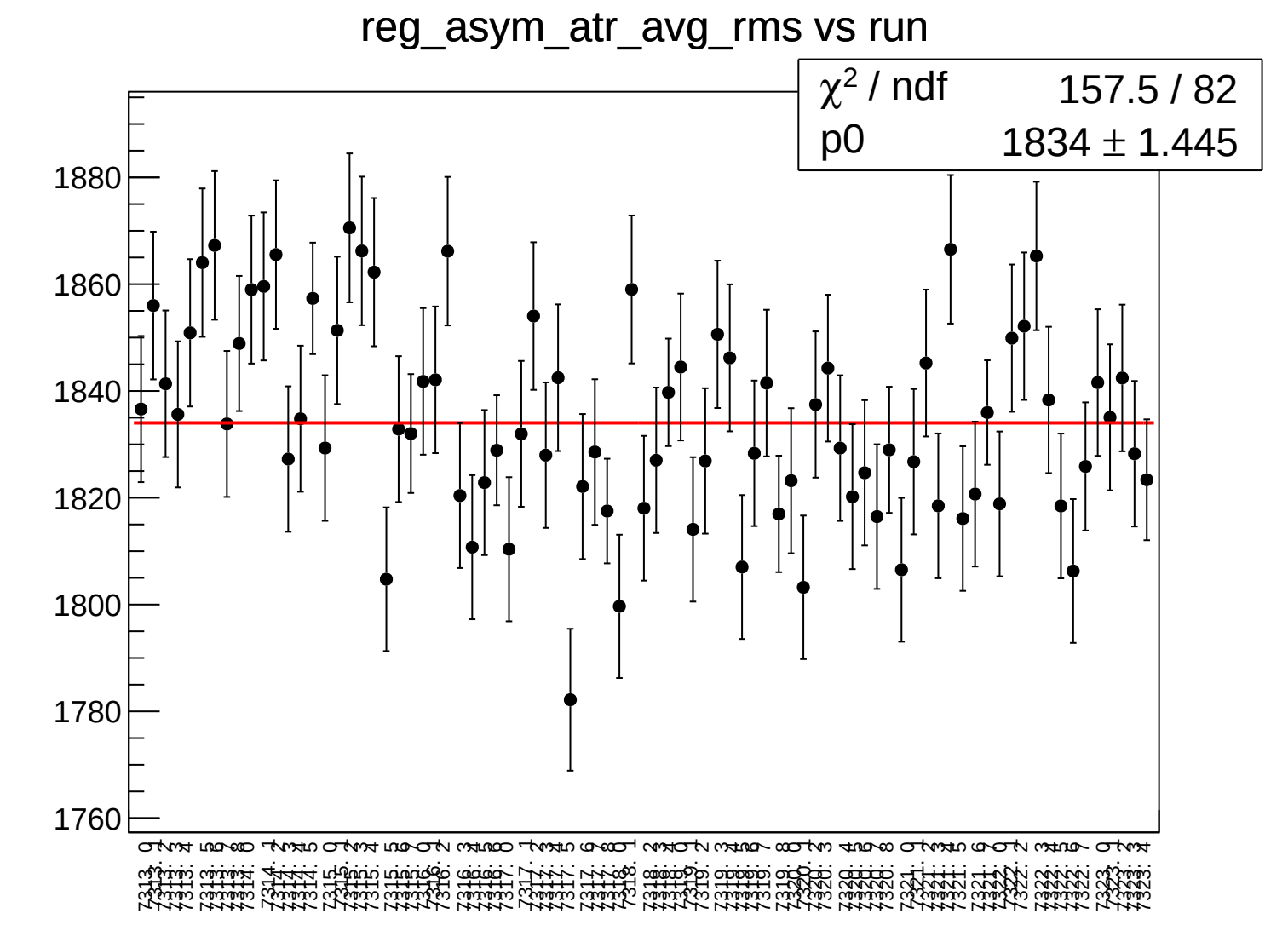

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.39 / 82
p0 −1.54e−14 ± 9.291e−14
pull
Entries 83
Mean 83.97
Std Dev 0

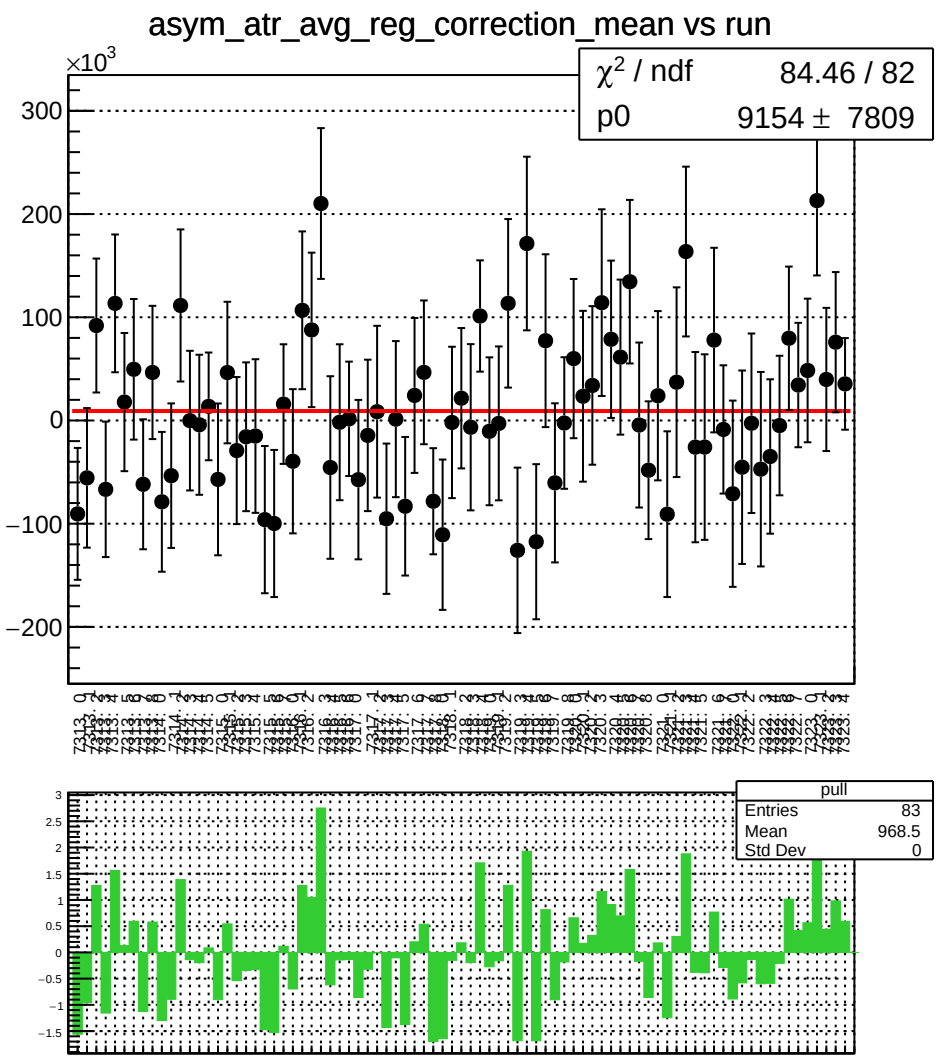

pull1D
Entries 83
Mean −0.01586
Std Dev 1.02

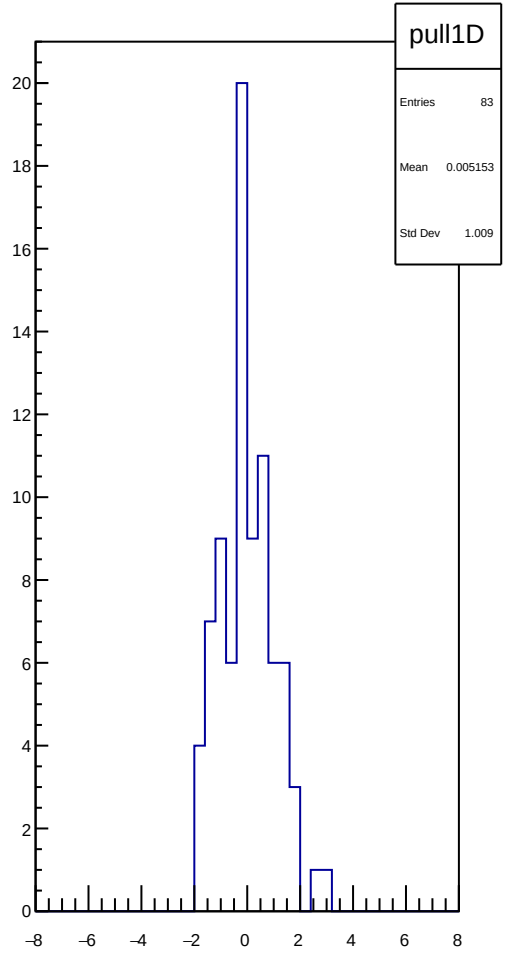

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.785e+05 / 82
p0 6.993e−11 ± 6.57e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

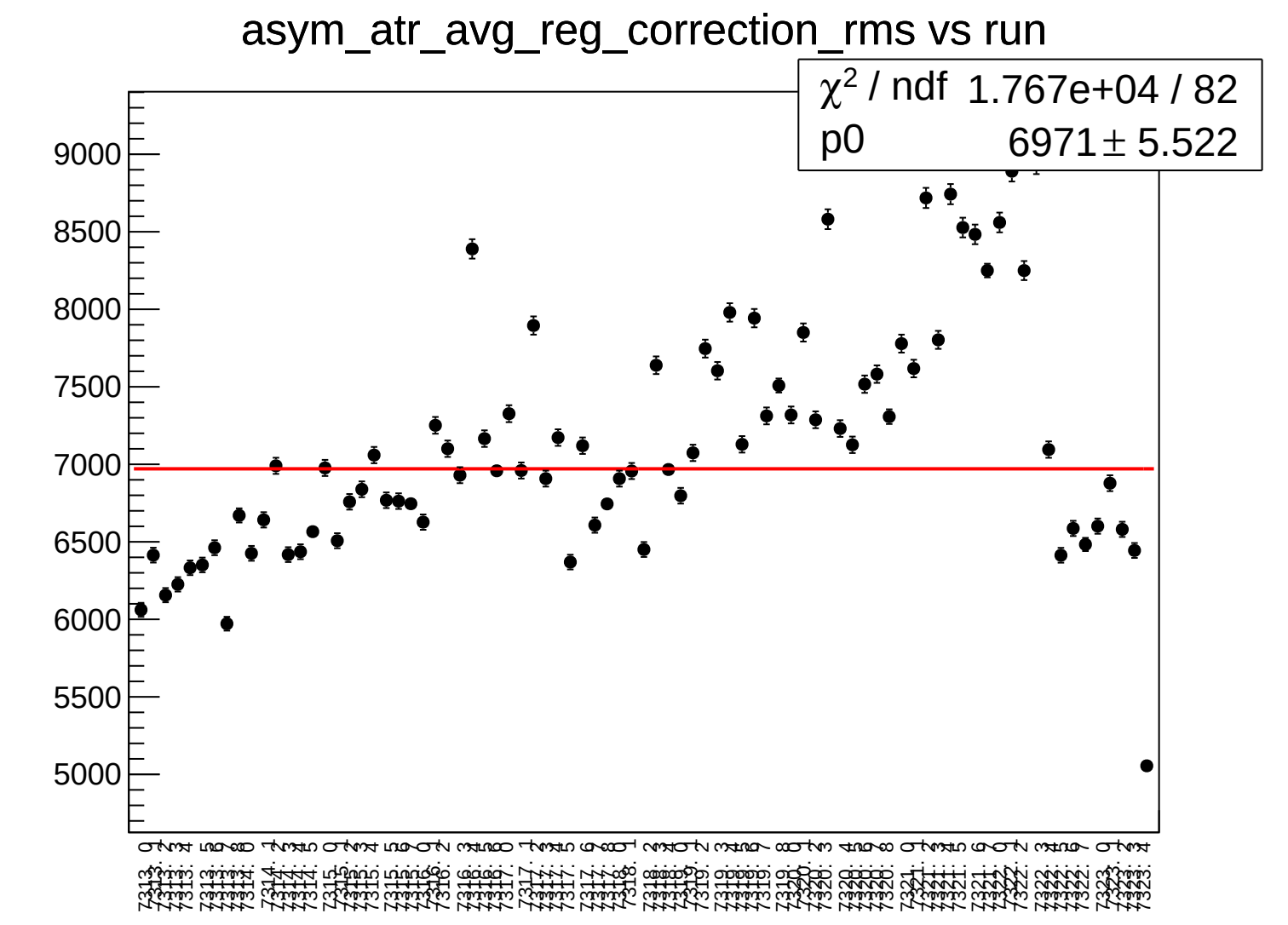

reg_asym_atr_avg_mean vs run
χ² / ndf 110.7 / 82
p0 176.7 ± 2043
pull
Entries 83
Mean 37.59
Std Dev 0

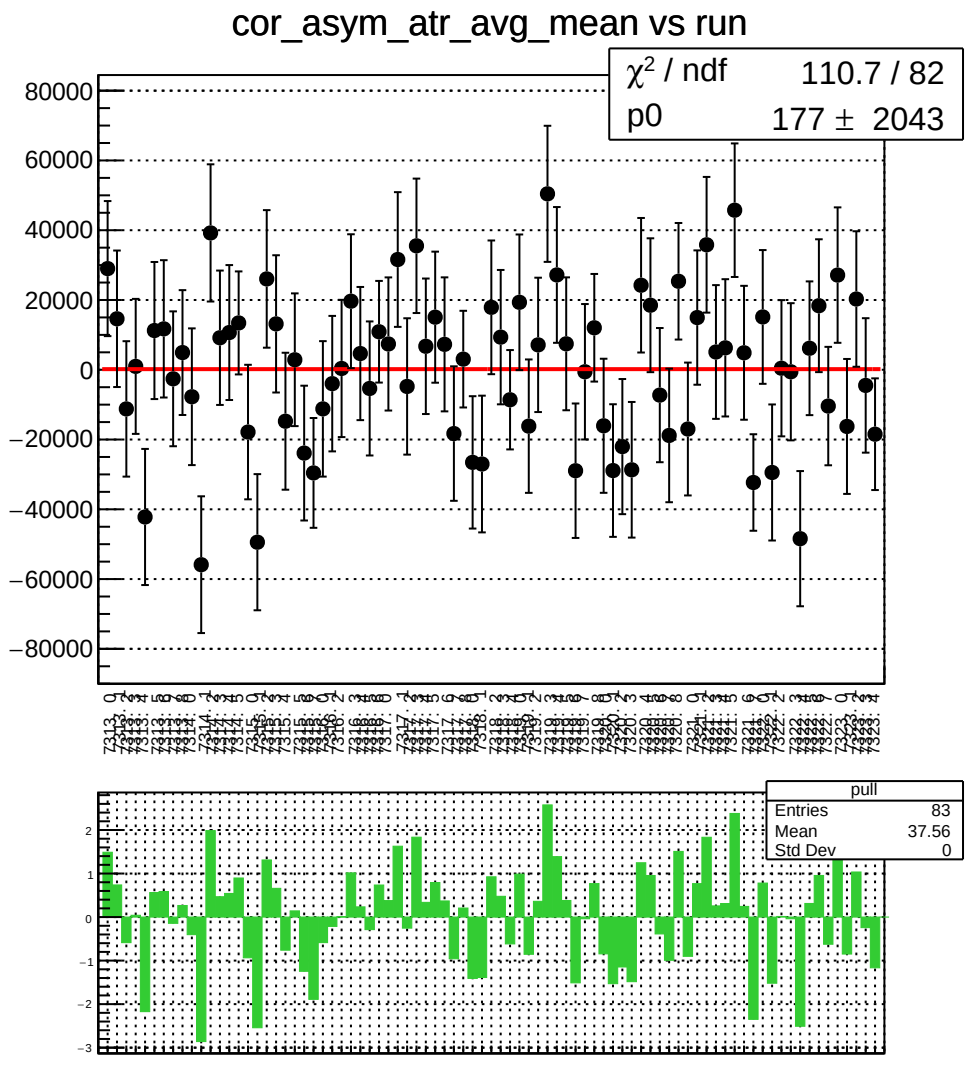

pull1D
Entries 83
Mean 0.01015
Std Dev 1.155

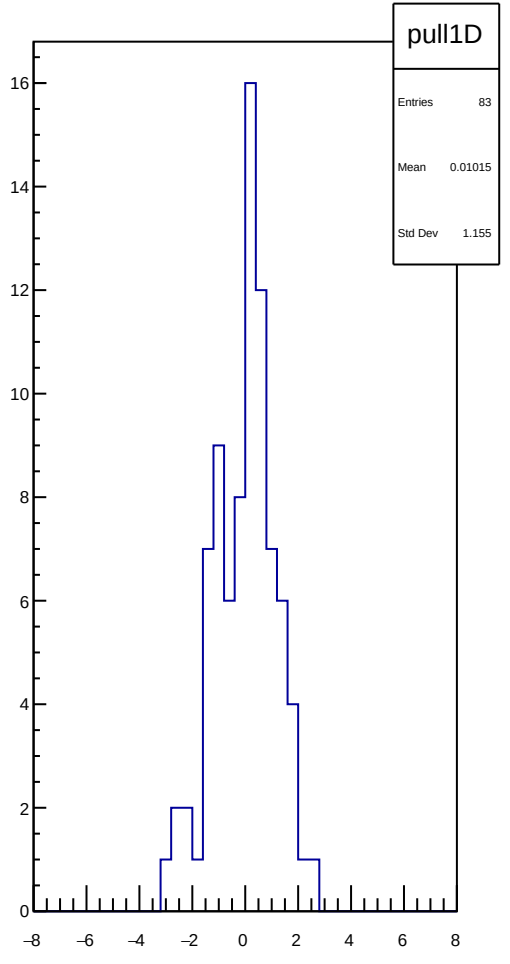

reg_asym_atr_avg_rms vs run
χ^2 / ndf 157.5 / 82
p0 1834 ± 1.445
1880
1860
1840
1820
1800
1780
1760

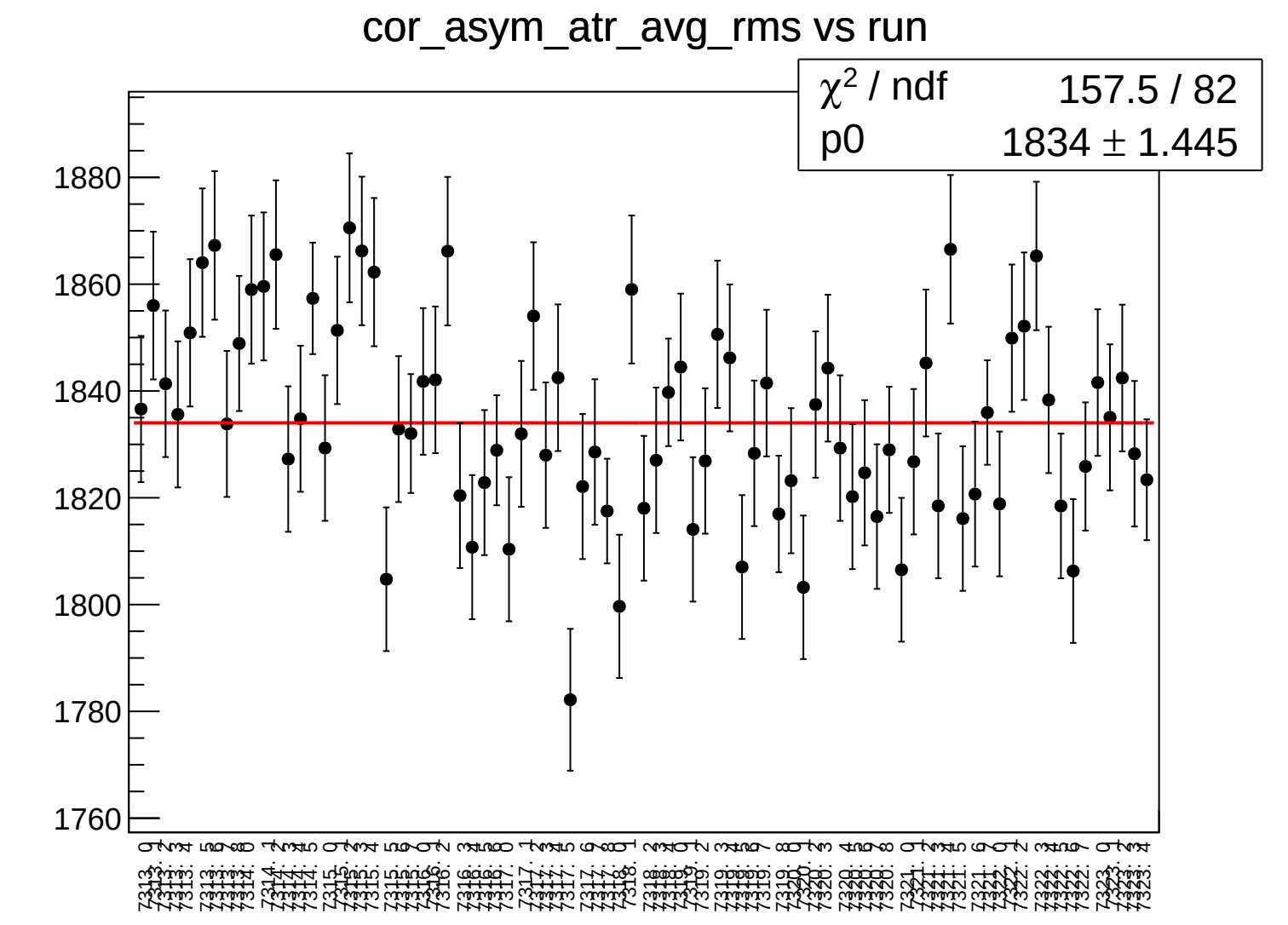

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.46 / 82
p0 9154 ± 7809
300
200
100
0
−100
−200
pull
Entries 83
Mean 968.5
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

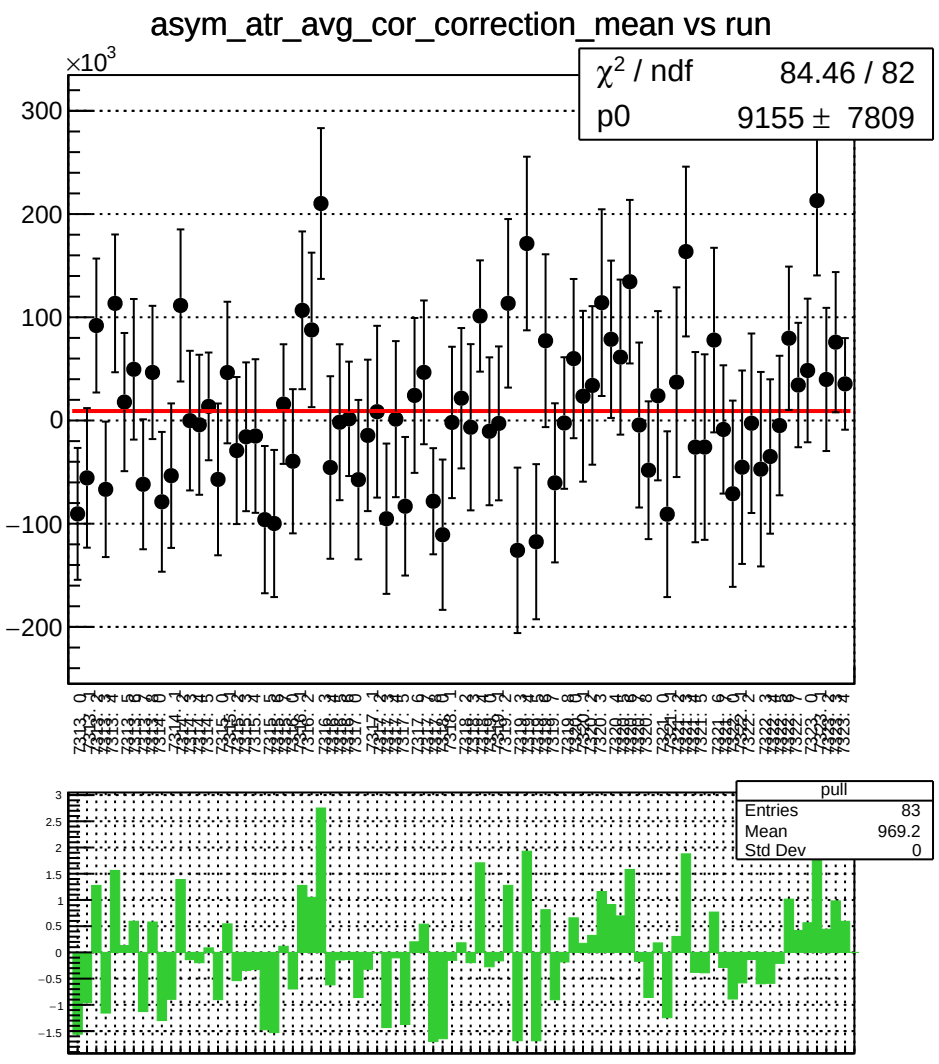

pull1D
Entries 83
Mean 0.005153
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

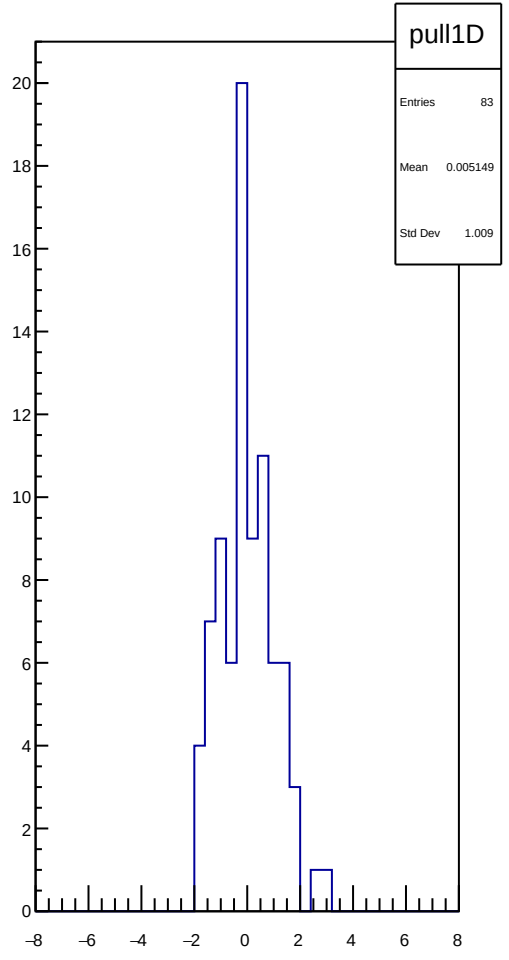

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 1.767e+04 / 82
p0 6971 ± 5.522
9000
8500
8000
7500
7000
6500
6000
5500
5000

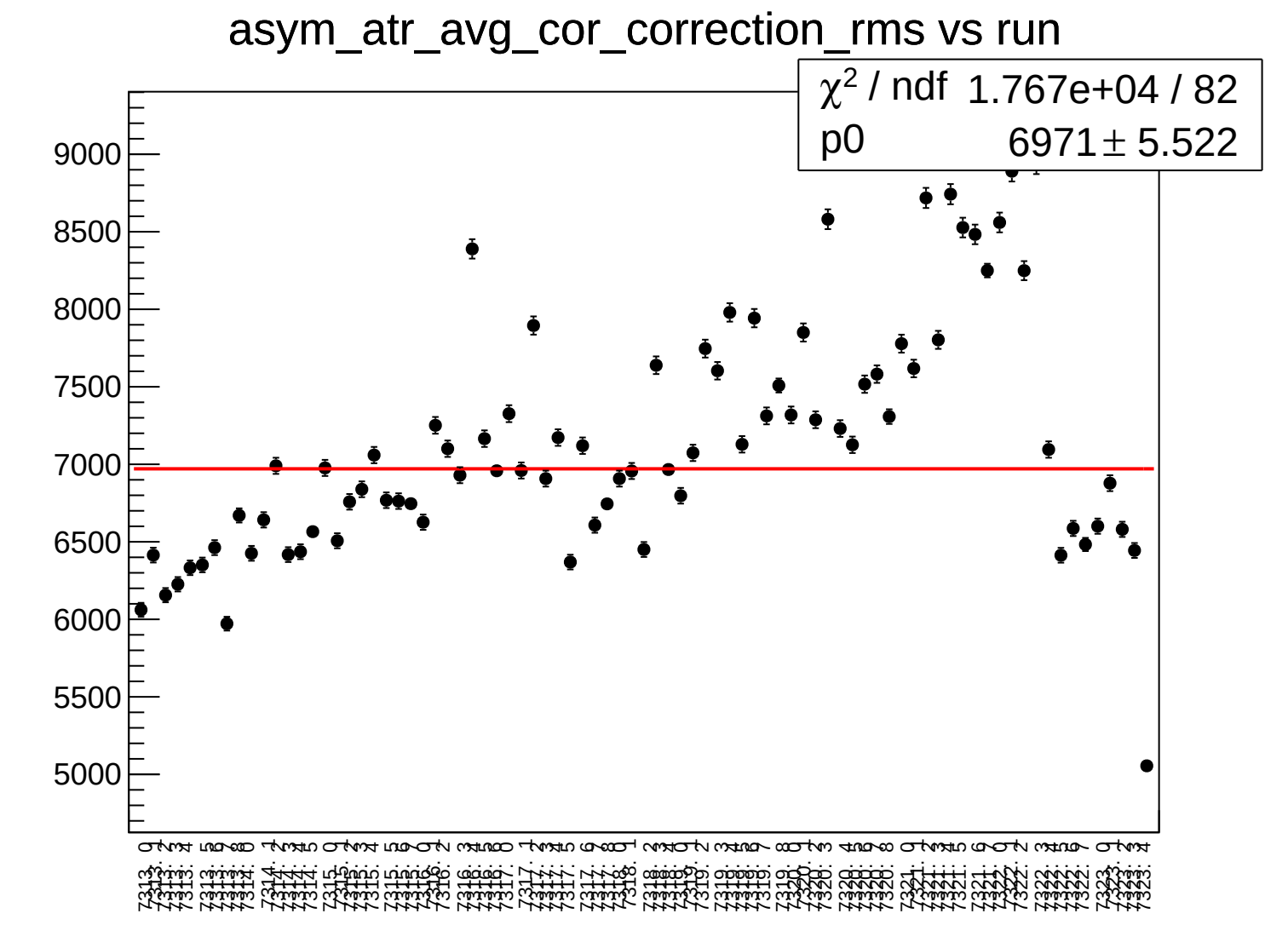

cor_asym_atr_avg_mean vs run
χ² / ndf 110.7 / 82
p0 177 ± 2043
pull
Entries 83
Mean 37.56
Std Dev 0

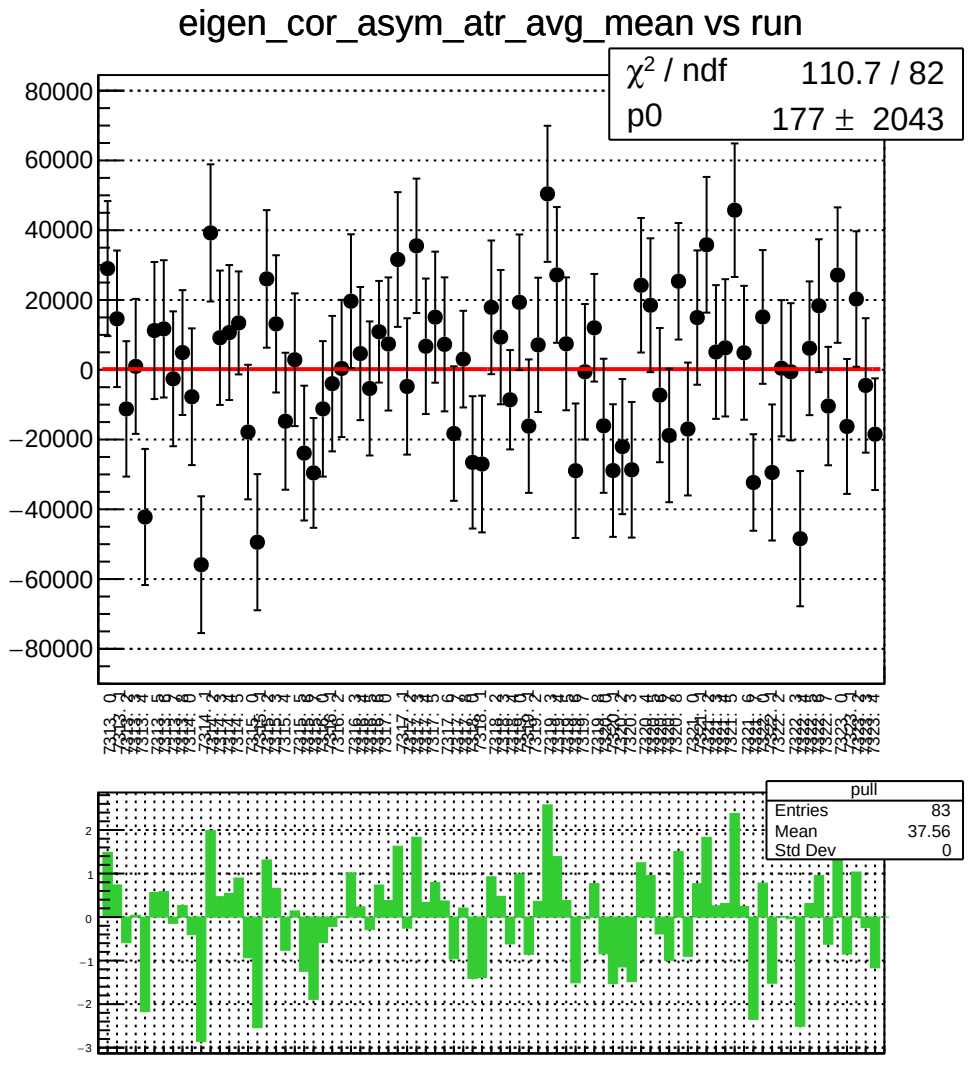

pull1D
Entries 83
Mean 0.01015
Std Dev 1.155

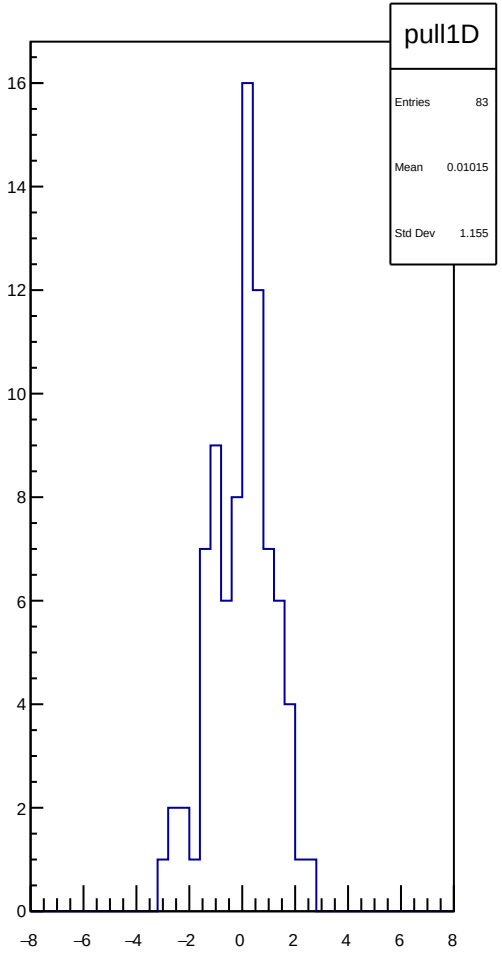

cor_asym_atr_avg_rms vs run
χ^2 / ndf 157.5 / 82
p0 1834 ± 1.445
1880
1860
1840
1820
1800
1780
1760

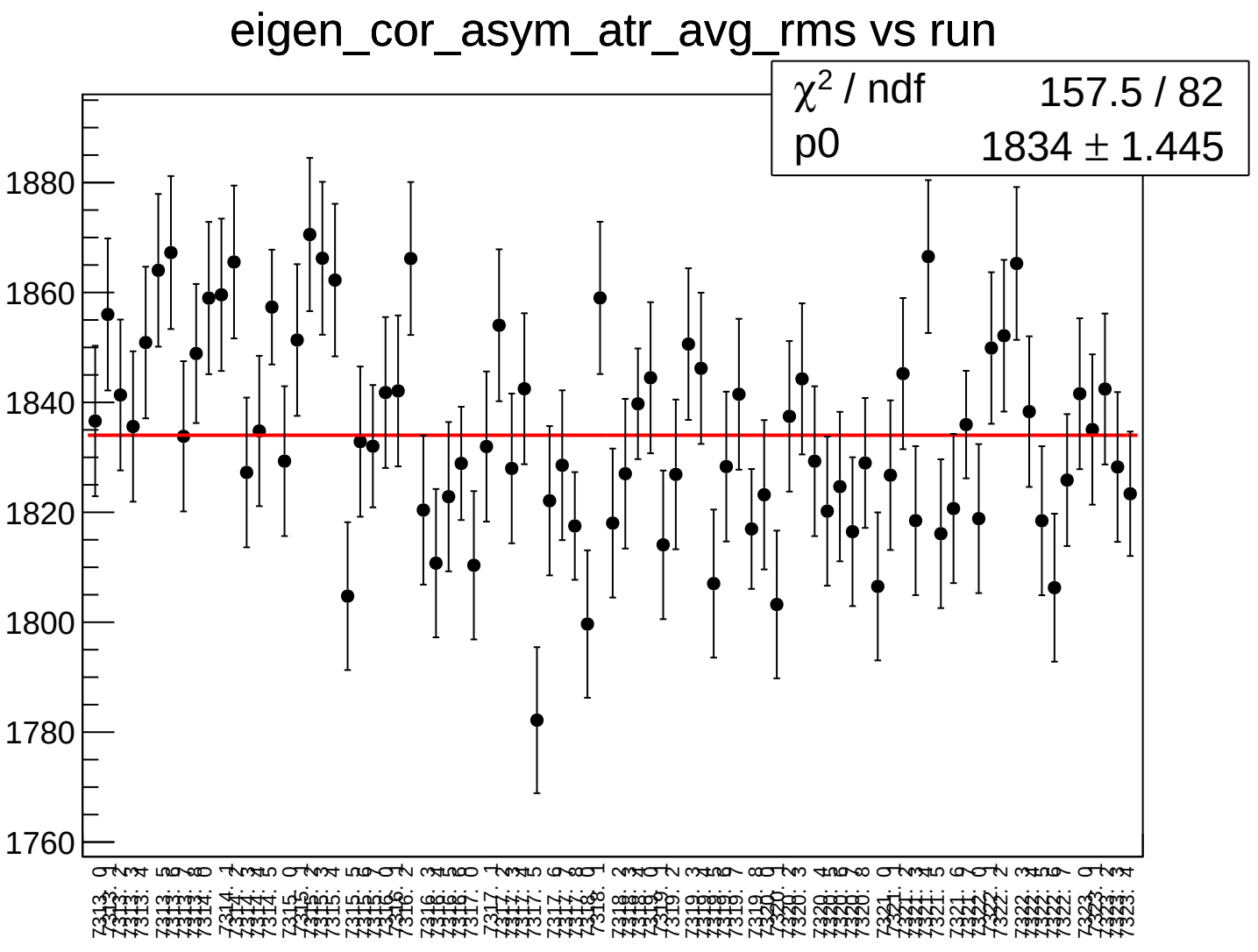

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.46 / 82
p0 9155 ± 7809
300
200
100
0
−100
−200
pull
Entries 83
Mean 969.2
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

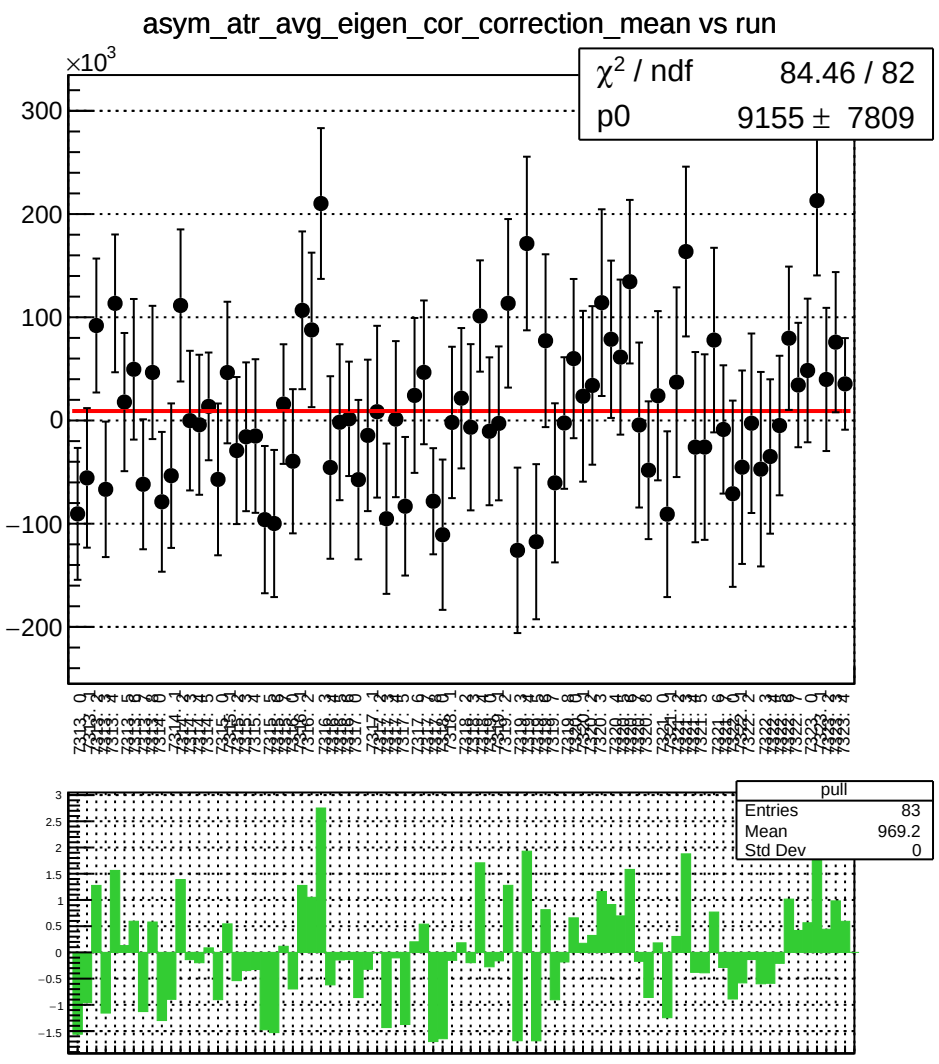

pull1D
Entries 83
Mean 0.005149
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

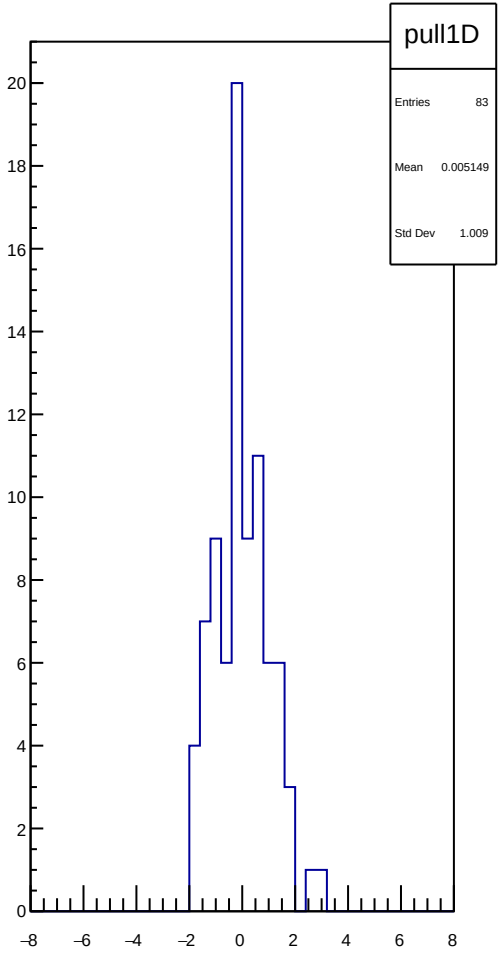

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 1.767e+04 / 82
p0 6971 ± 5.522
9000
8500
8000
7500
7000
6500
6000
5500
5000

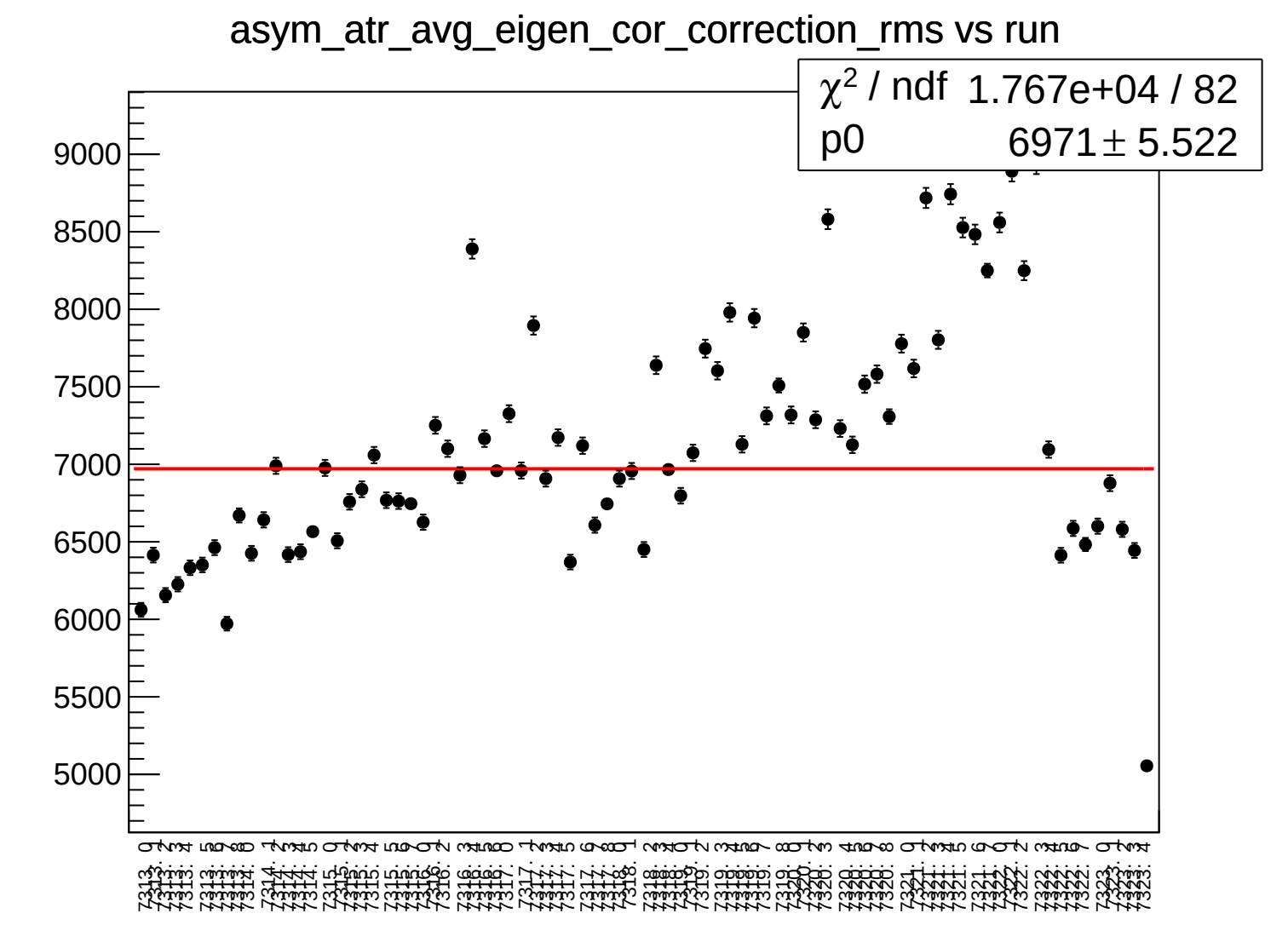

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 110.7 / 82
p0 177 ± 2043
pull
Entries 83
Mean 37.56
Std Dev 0

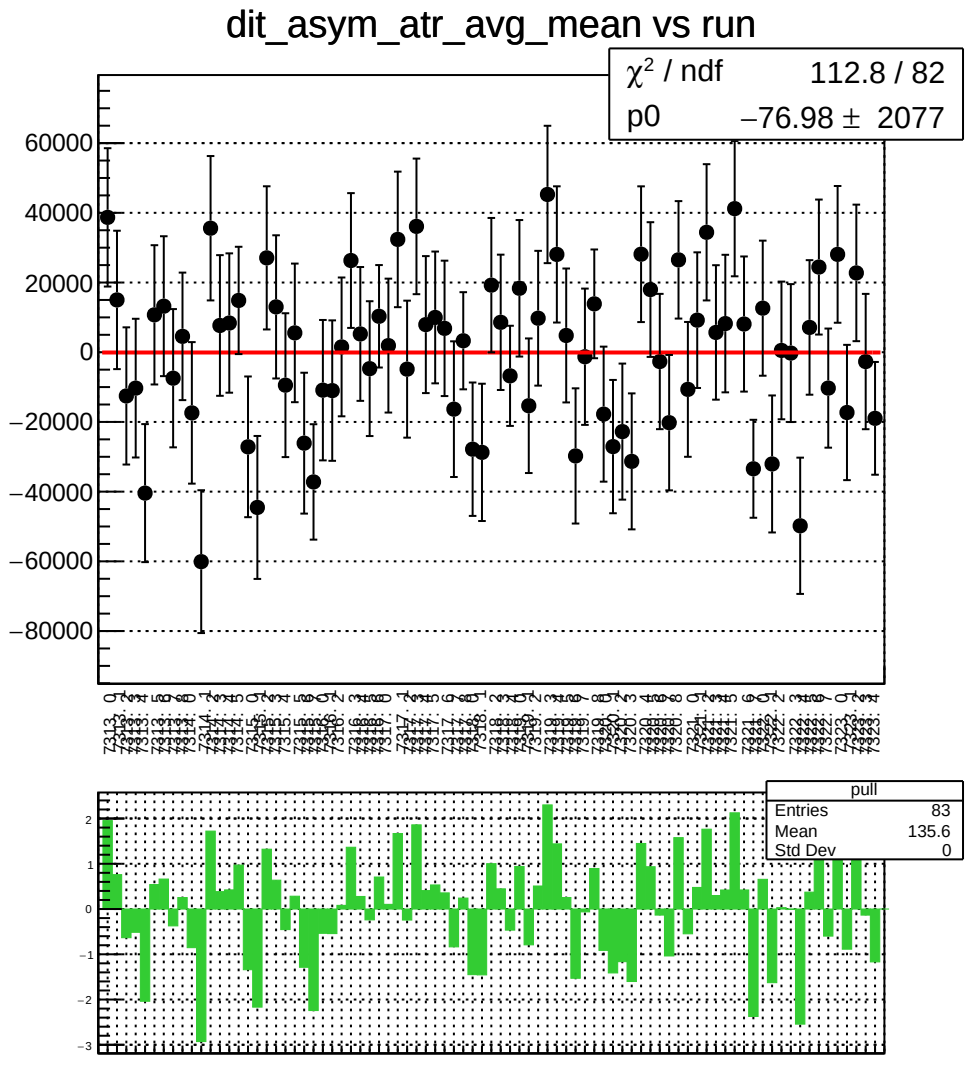

pull1D
Entries 83
Mean 0.01015
Std Dev 1.155

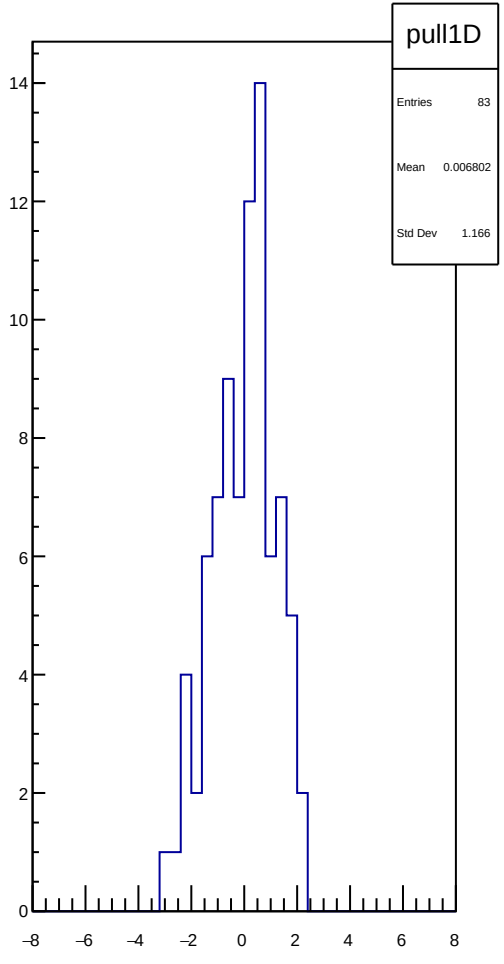

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 157.5 / 82
p0 1834 ± 1.445
1880
1860
1840
1820
1800
1780
1760

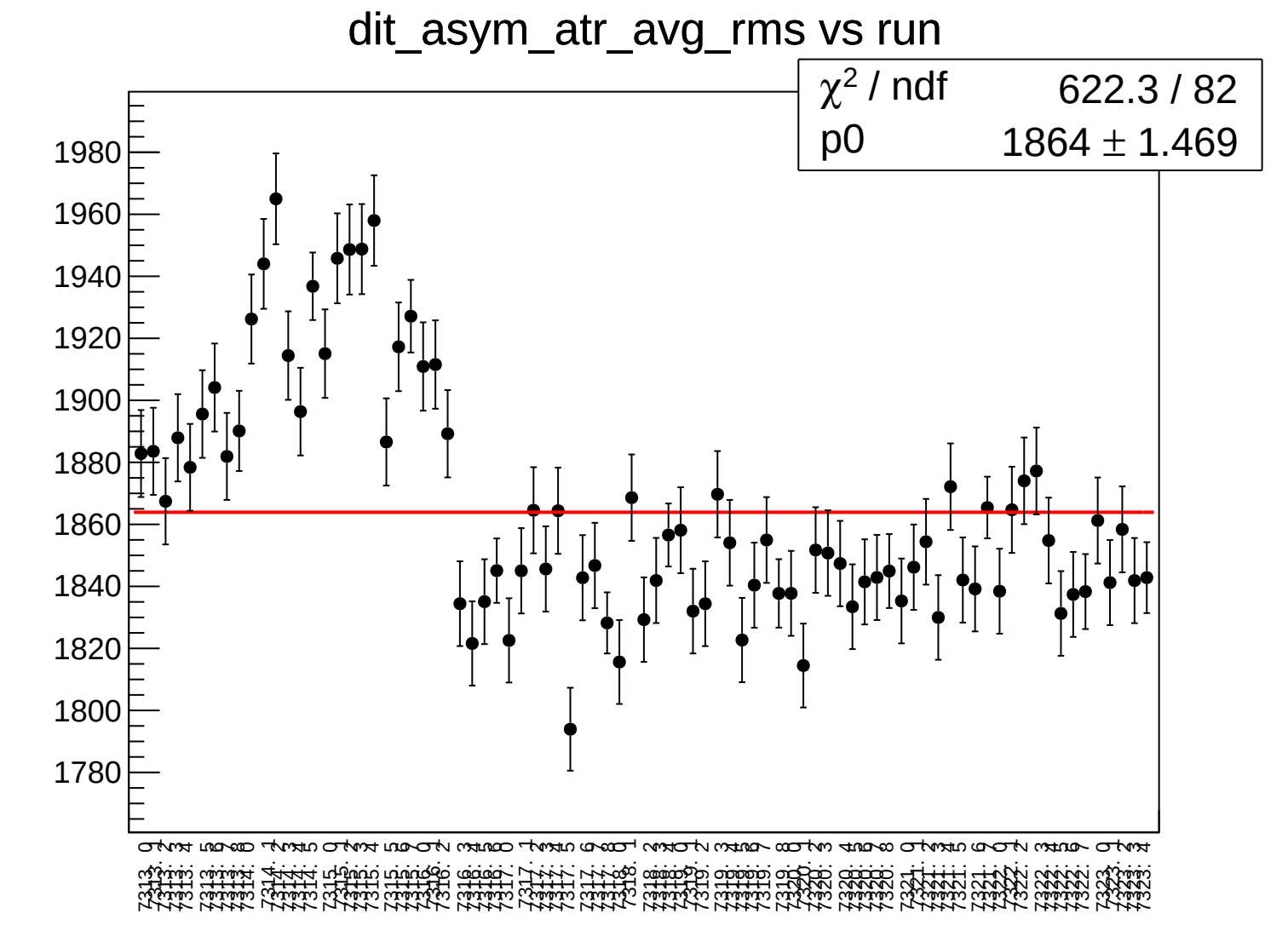

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.46 / 82
p0 9155 ± 7809
pull
Entries 83
Mean 969.2
Std Dev 0

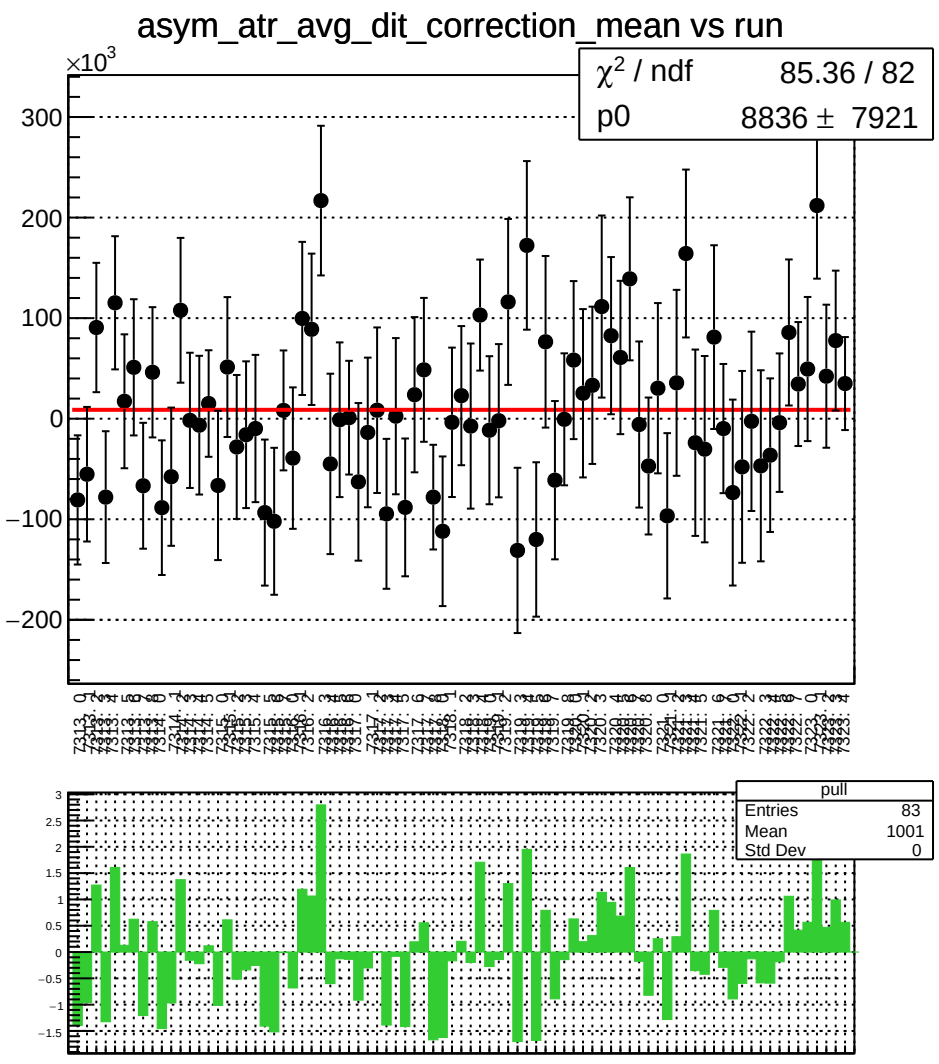

pull1D
Entries 83
Mean 0.005149
Std Dev 1.009

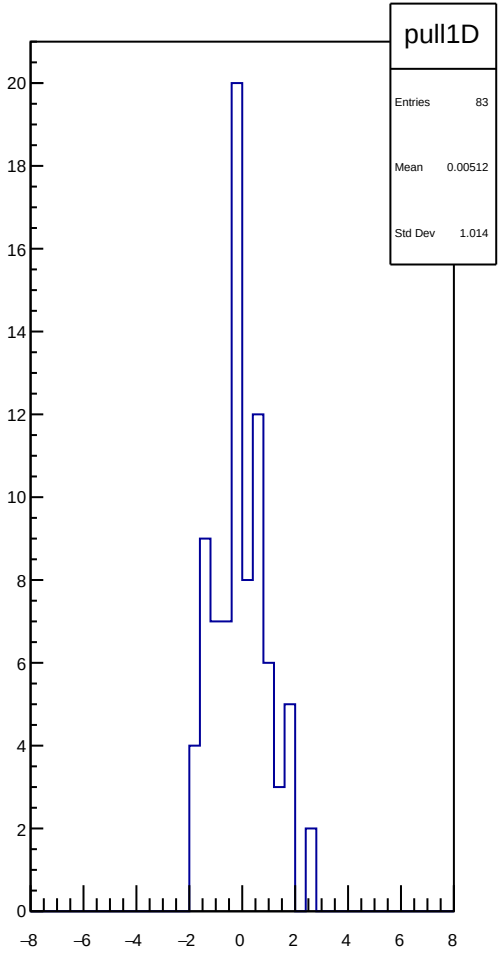

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.767e+04 / 82
p0 6971 ± 5.522
9000
8500
8000
7500
7000
6500
6000
5500
5000

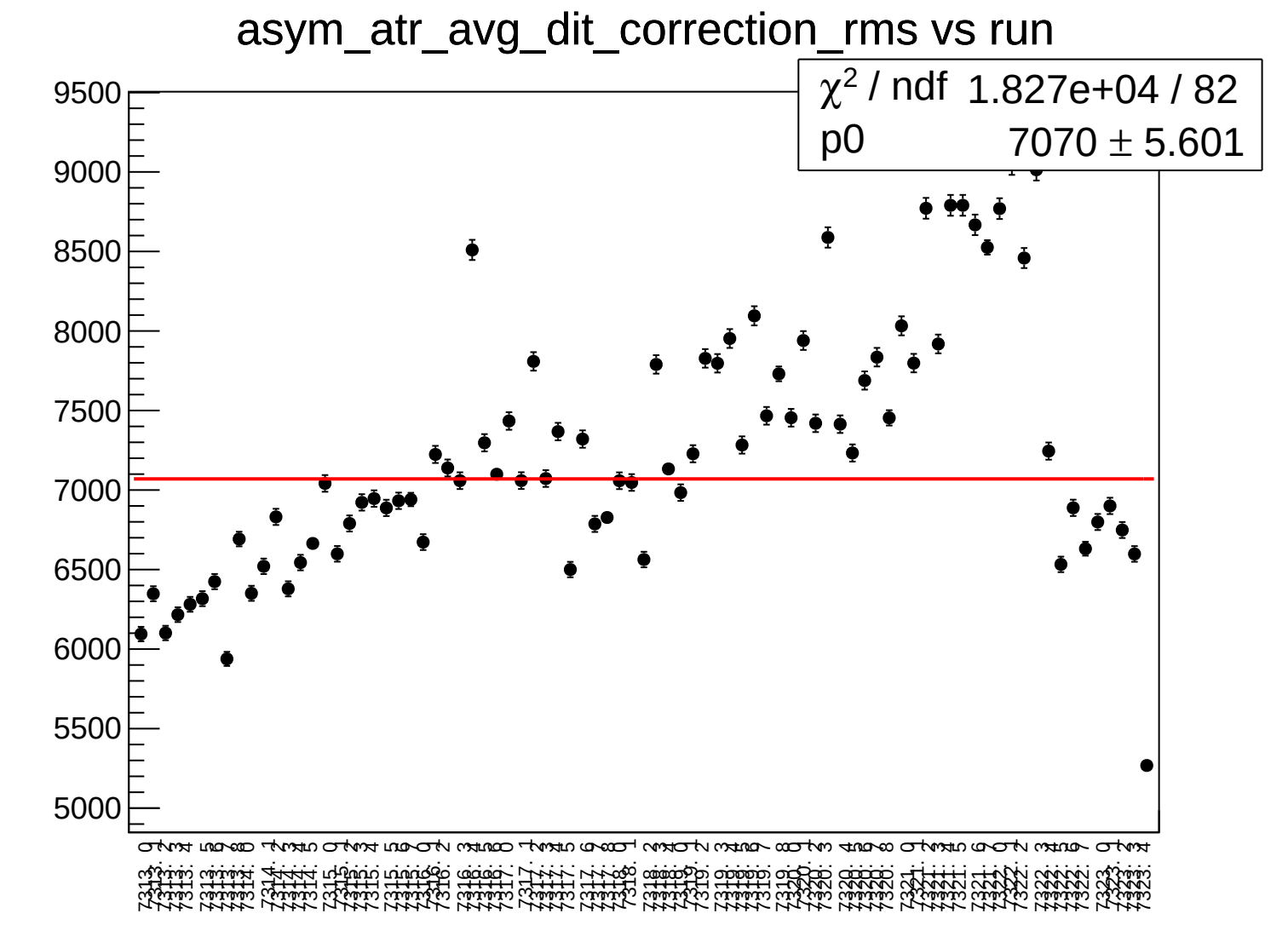

dit_asym_atr_avg_mean vs run
χ² / ndf 112.8 / 82
p0 −76.98 ± 2077
pull
Entries 83
Mean 135.6
Std Dev 0

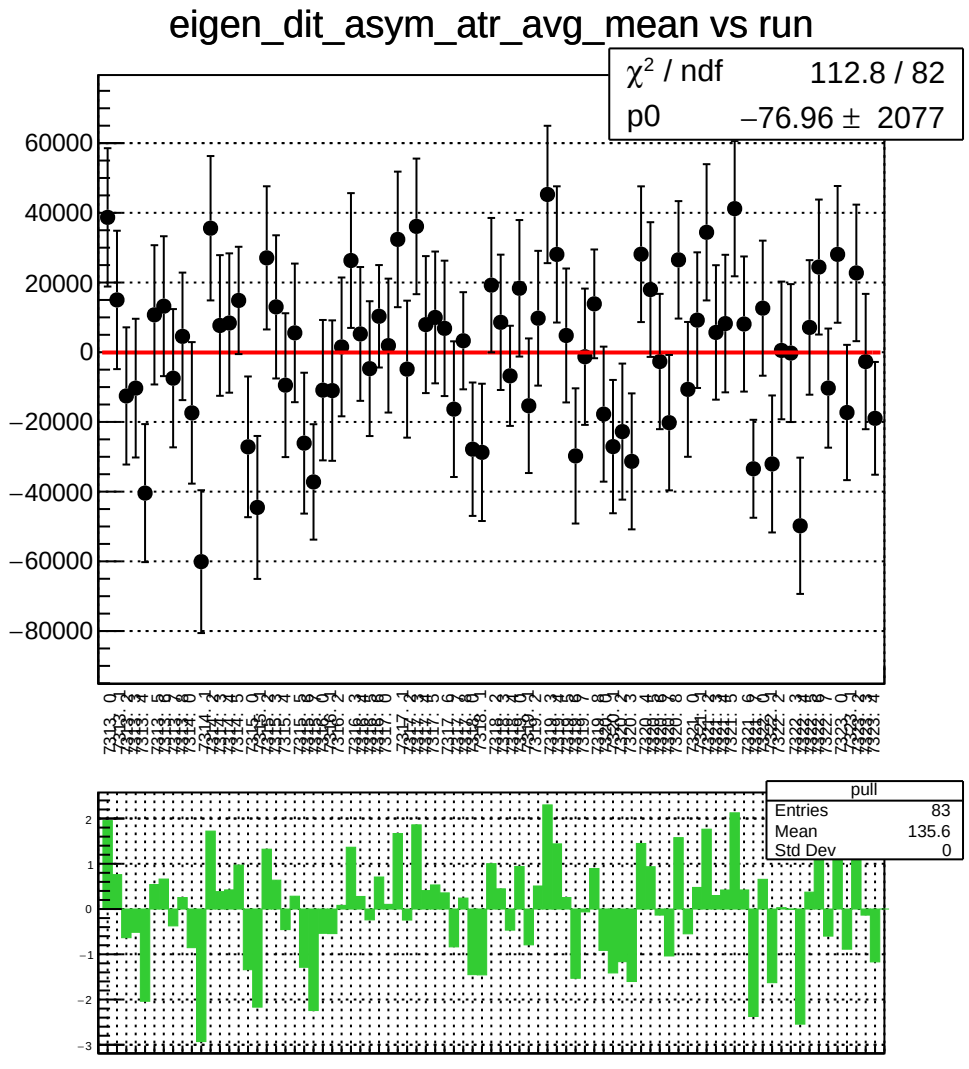

pull1D
Entries 83
Mean 0.006802
Std Dev 1.166

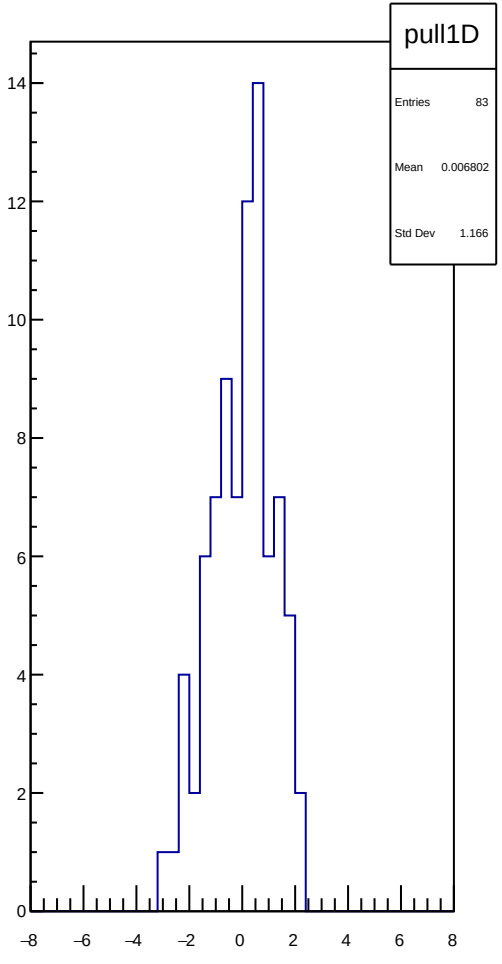

dit_asym_atr_avg_rms vs run
χ² / ndf 622.3 / 82
p0 1864 ± 1.469
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

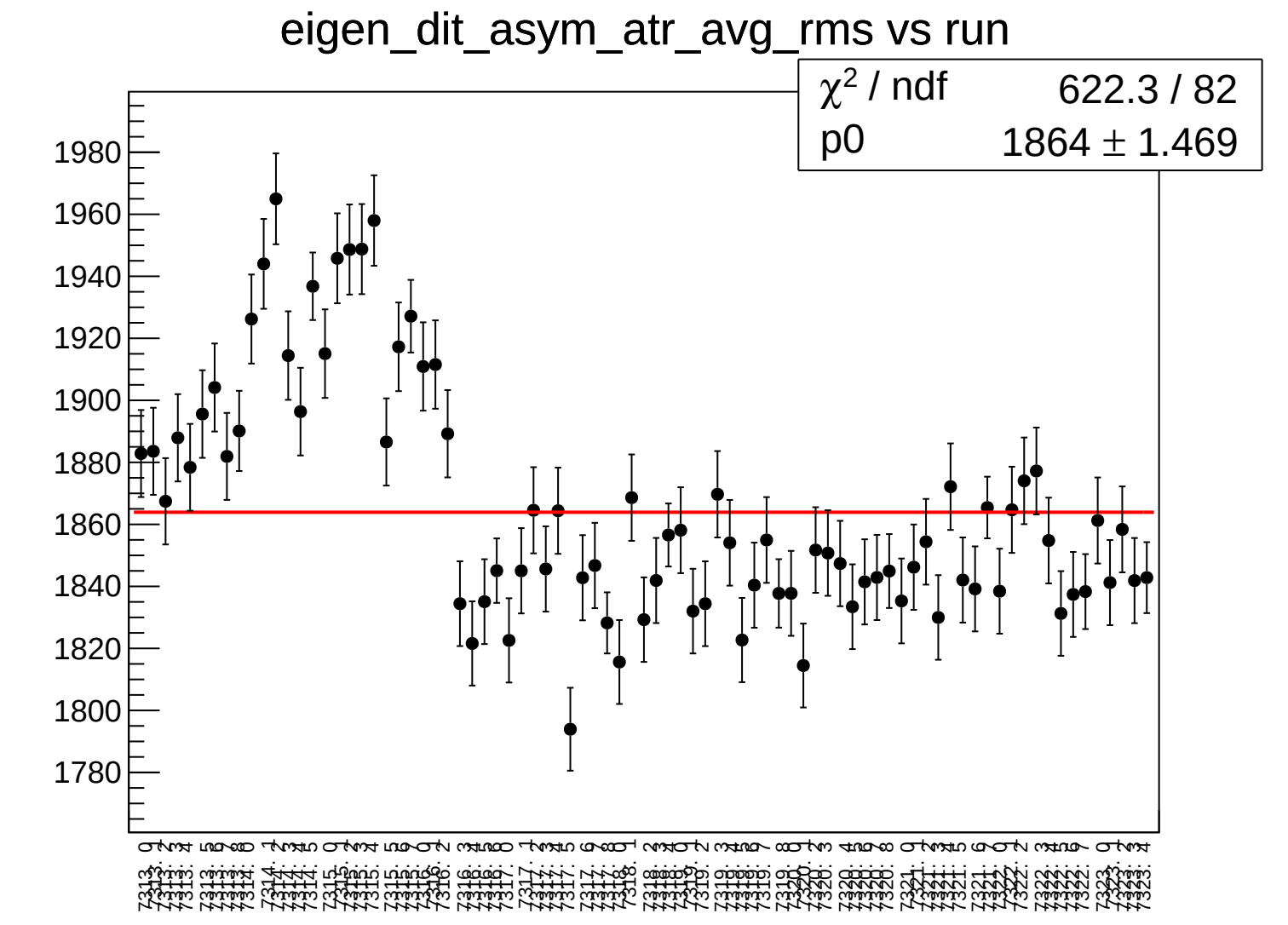

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.36 / 82
p0 8836 ± 7921
pull
Entries 83
Mean 1001
Std Dev 0

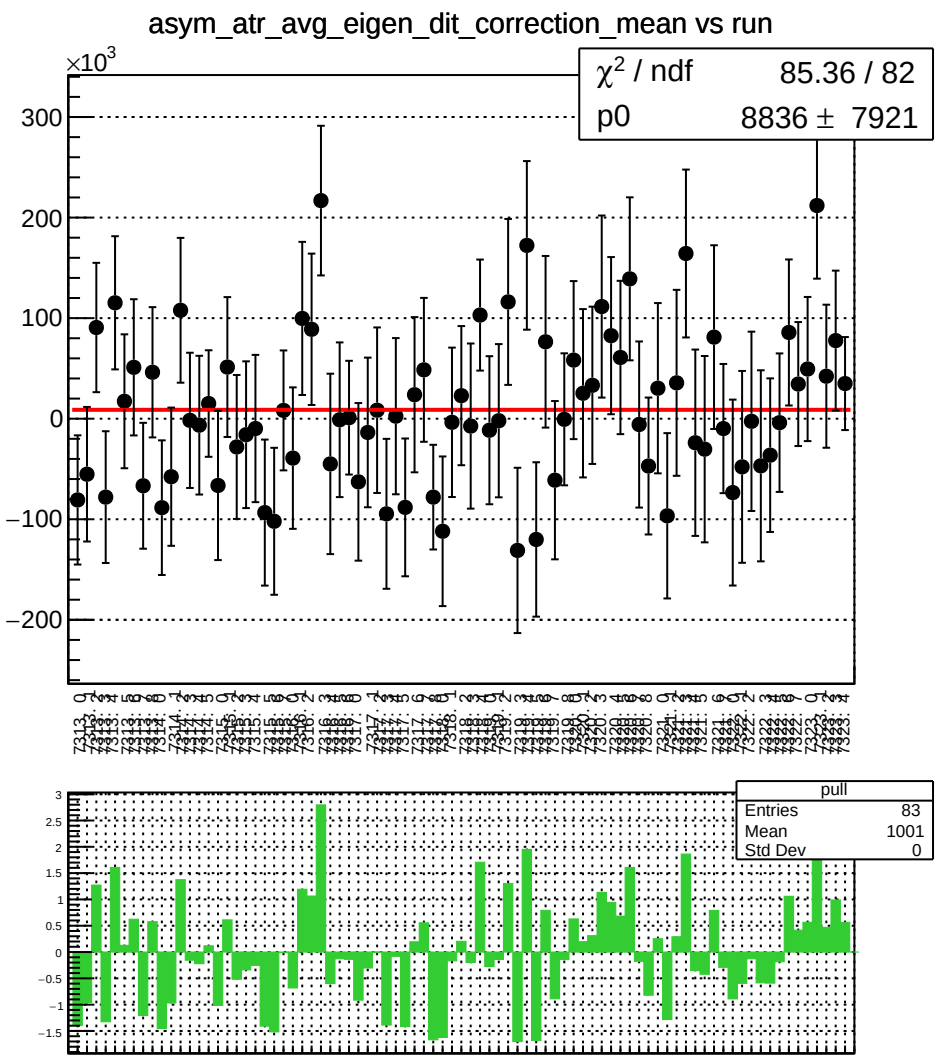

pull1D
Entries 83
Mean 0.00512
Std Dev 1.014

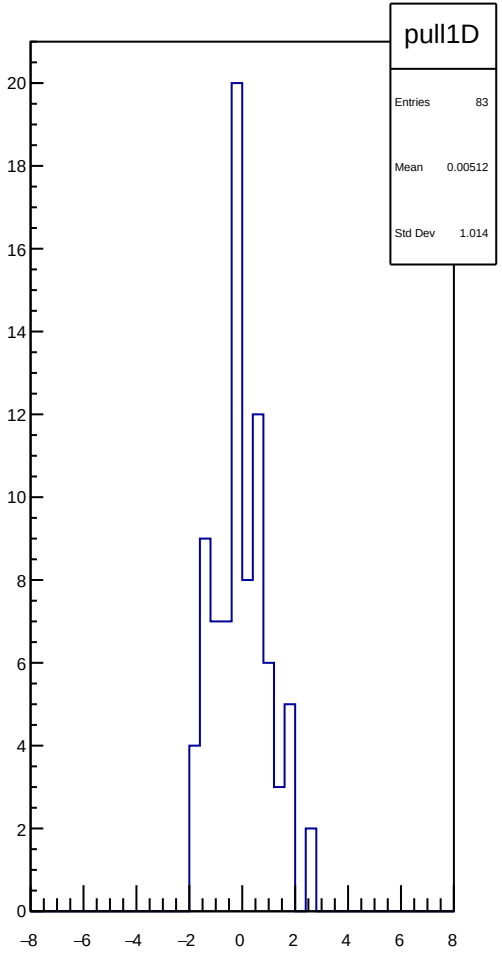

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.827e+04 / 82
p0 7070 ± 5.601
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

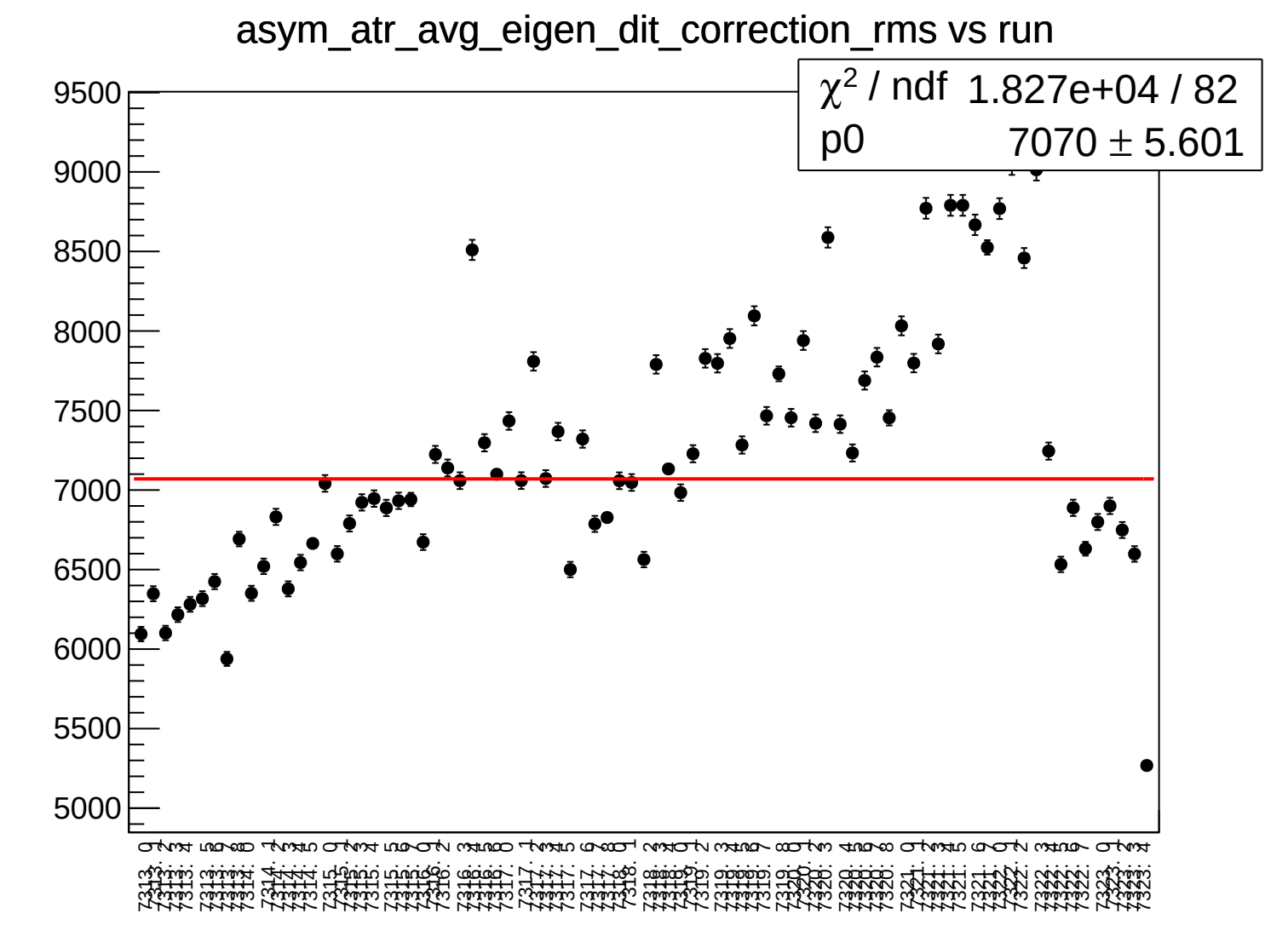

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 112.8 / 82
p0 −76.96 ± 2077
pull
Entries 83
Mean 135.6
Std Dev 0

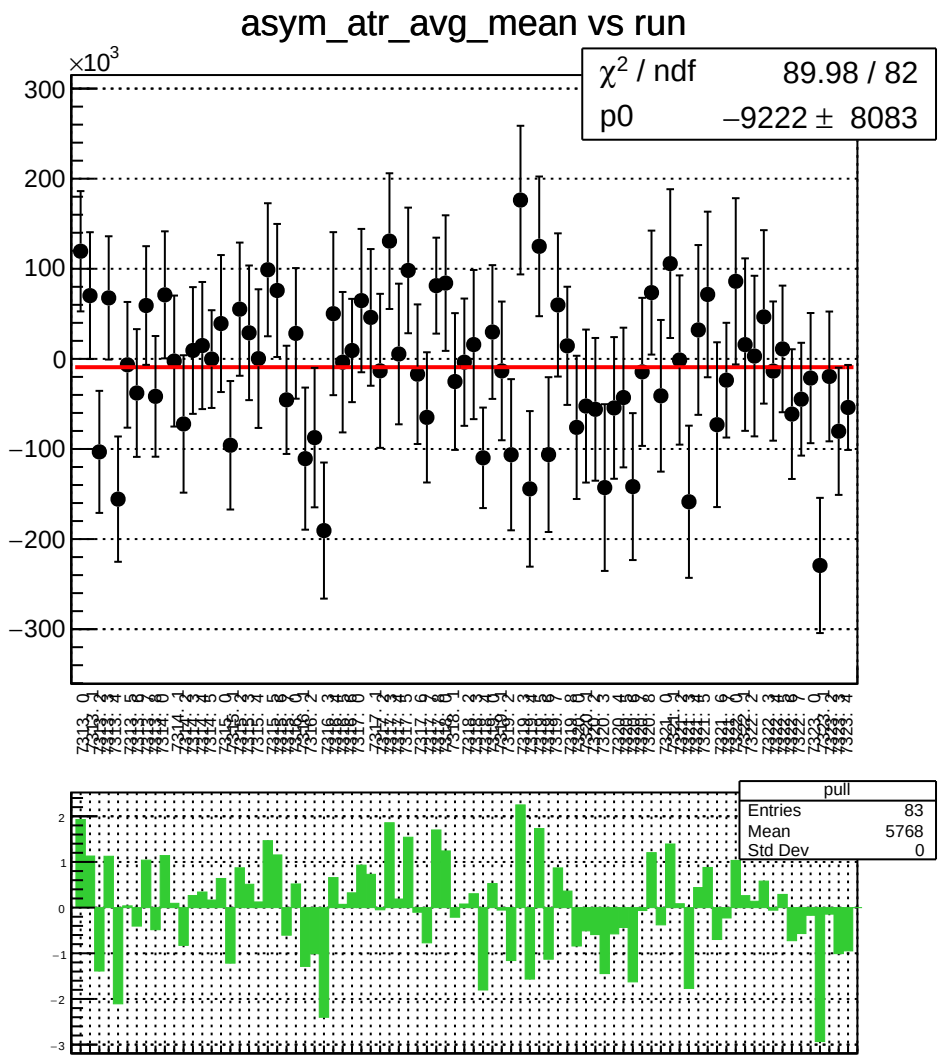

pull1D
Entries 83
Mean 0.006802
Std Dev 1.166

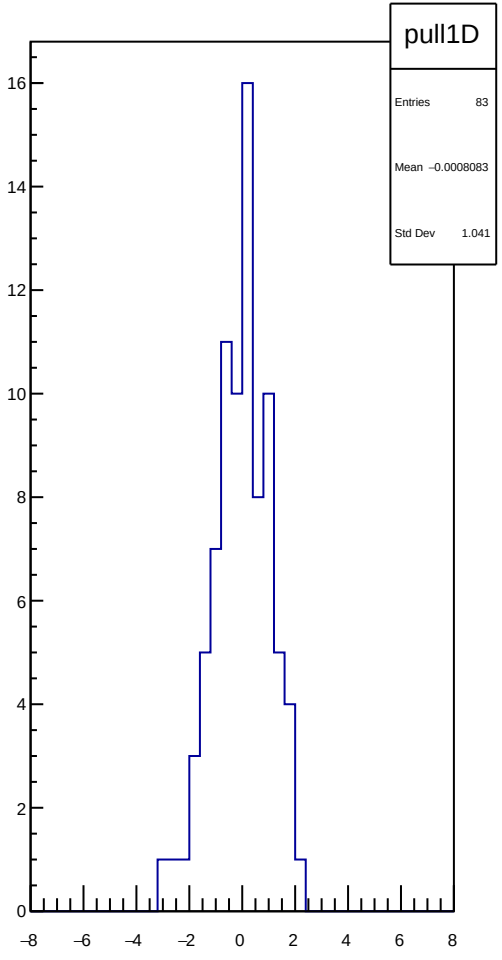

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 622.3 / 82
p0 1864 ± 1.469
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

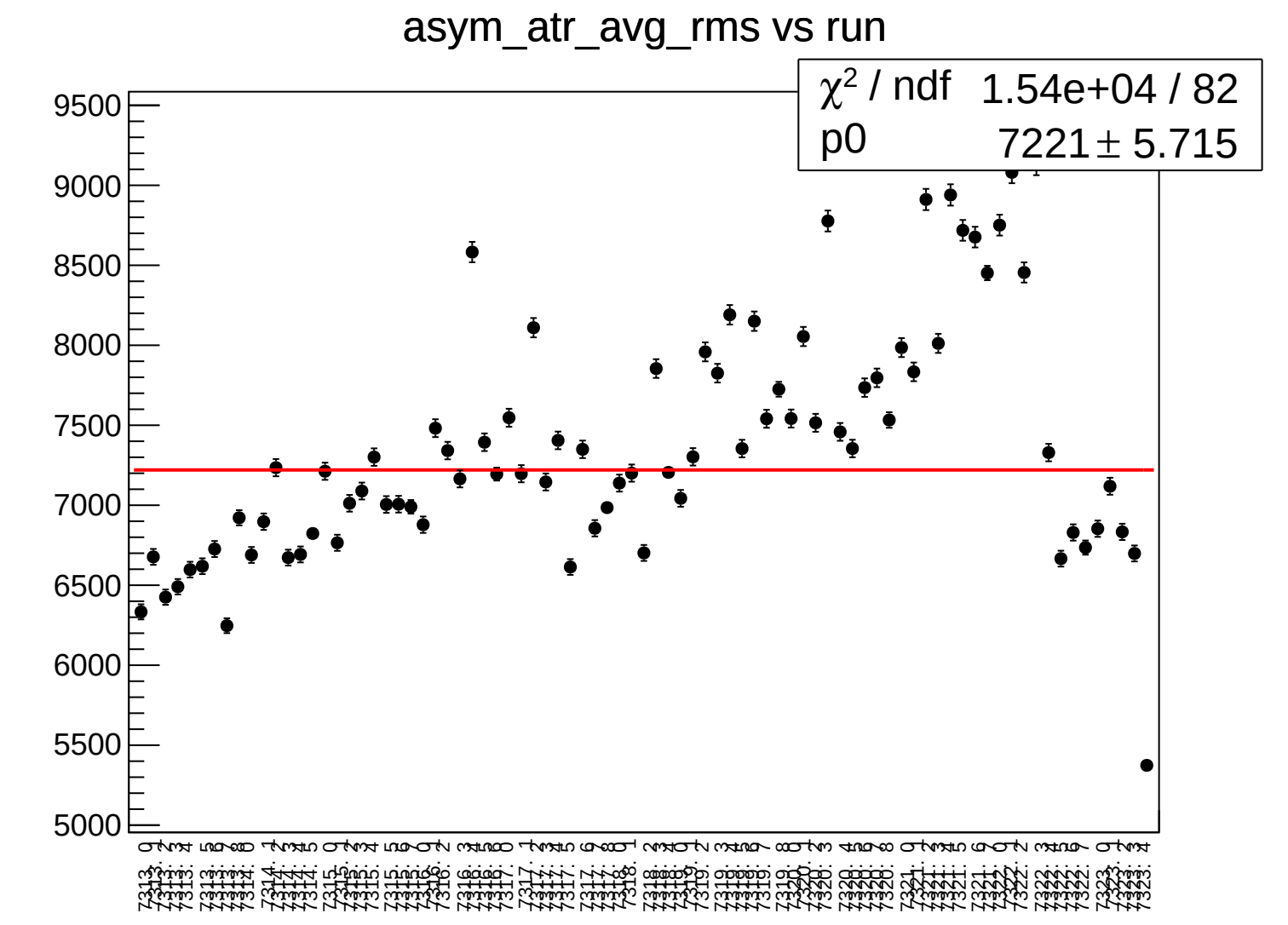

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.36 / 82
p0 8836 ± 7921
pull
Entries 83
Mean 1001
Std Dev 0

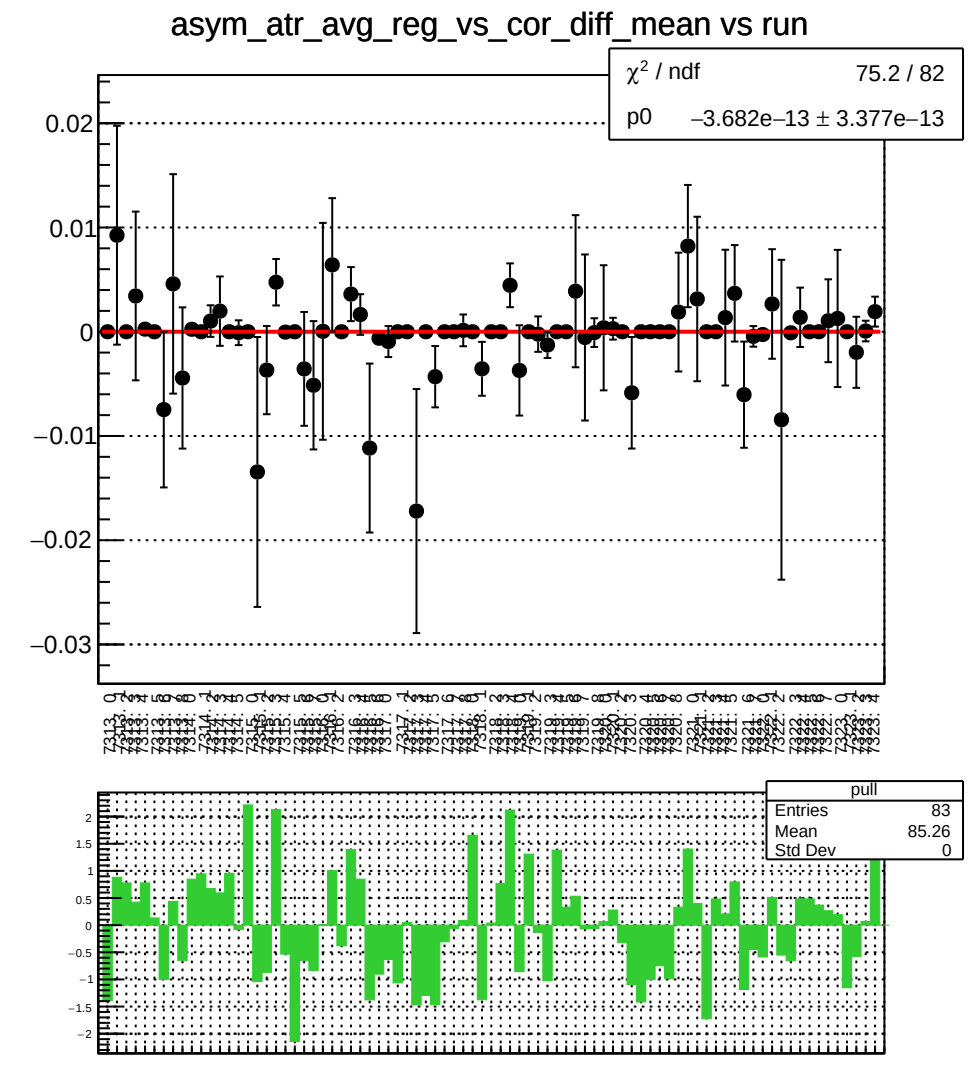

pull1D
Entries 83
Mean 0.00512
Std Dev 1.014

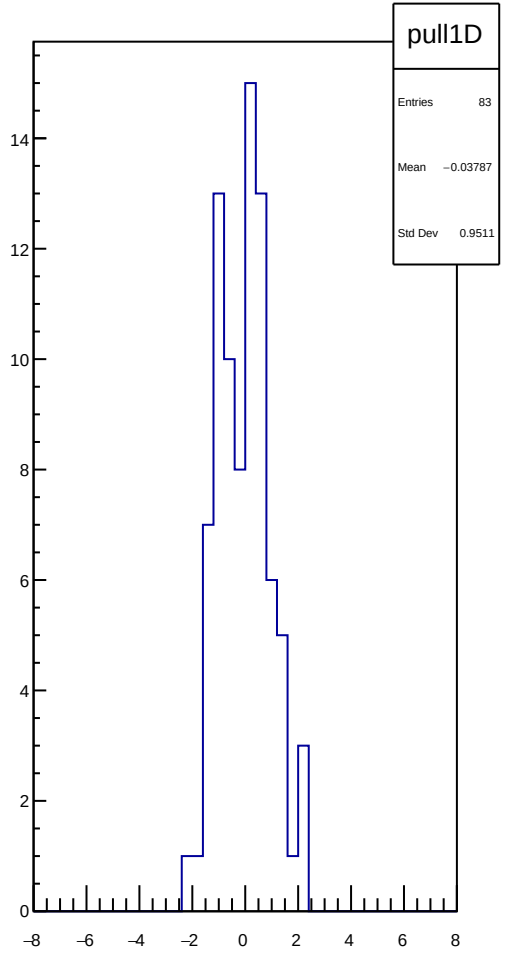

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.827e+04 / 82
p0 7070 ± 5.601
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

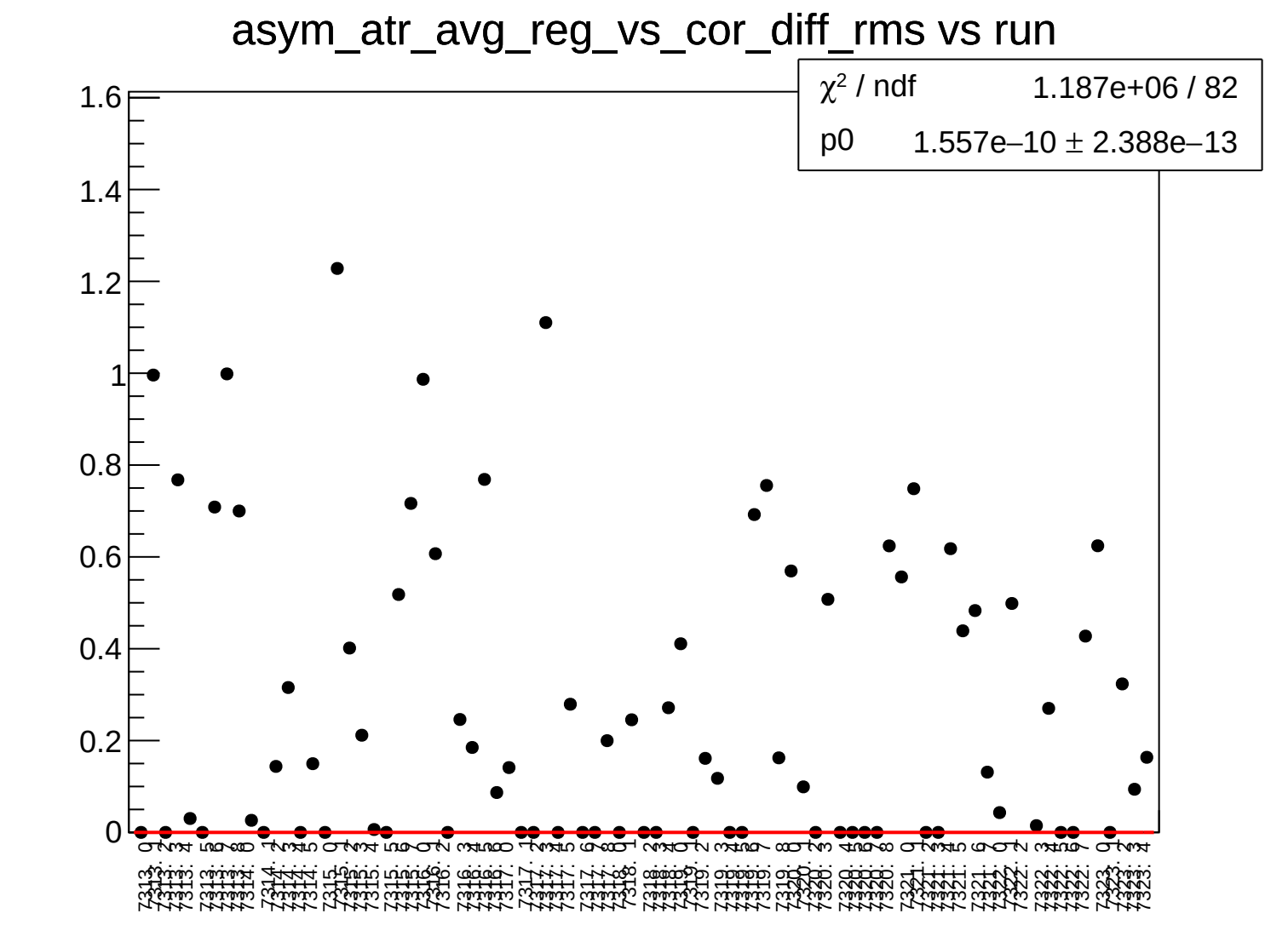

asym_atr_avg_mean vs run
×10^3
χ² / ndf 89.98 / 82
p0 −9222 ± 8083
pull
Entries 83
Mean 5768
Std Dev 0

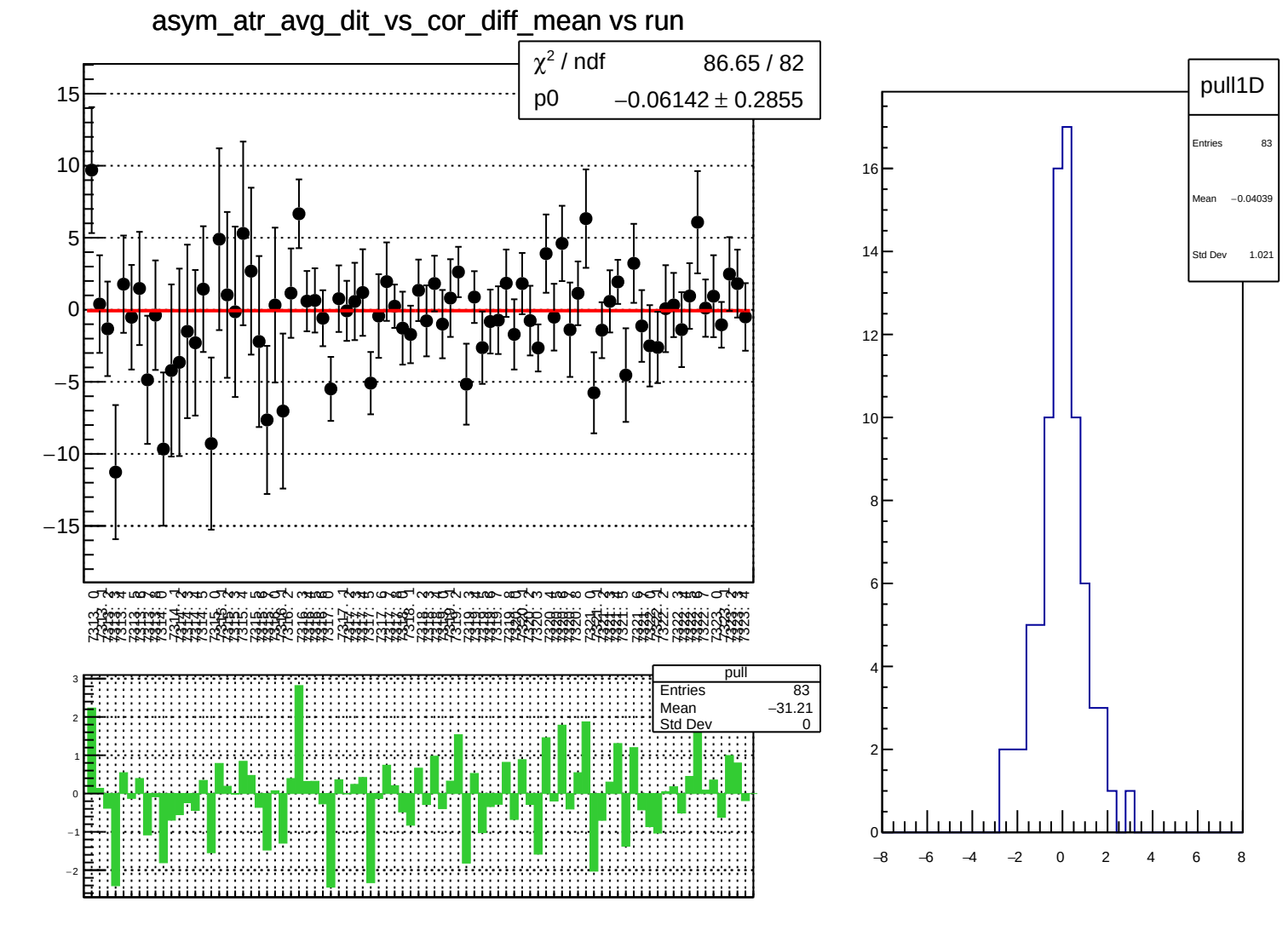

pull1D
Entries 83
Mean −0.0008083
Std Dev 1.041

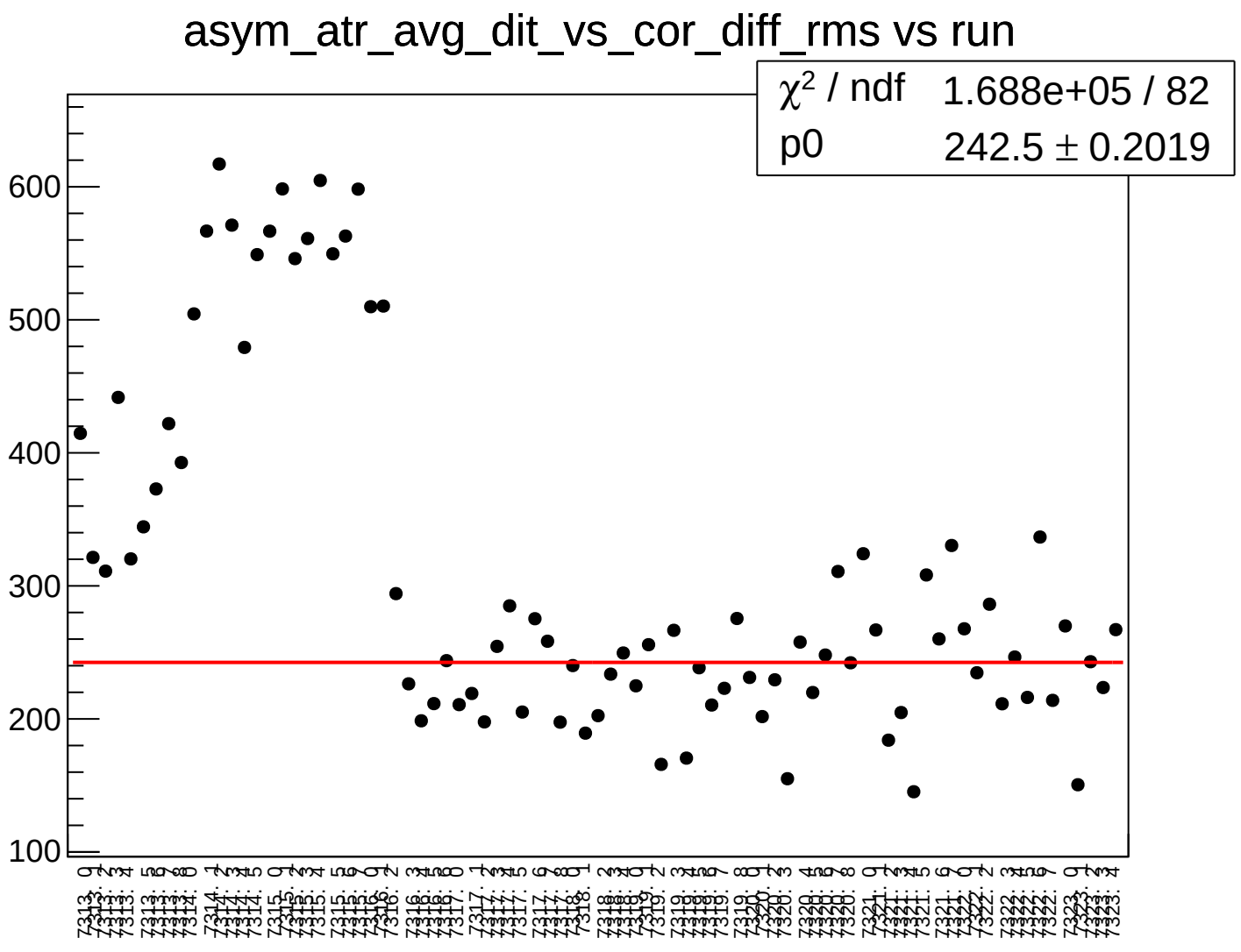

asym_atr_avg_rms vs run
χ² / ndf 1.54e+04 / 82
p0 7221 ± 5.715
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

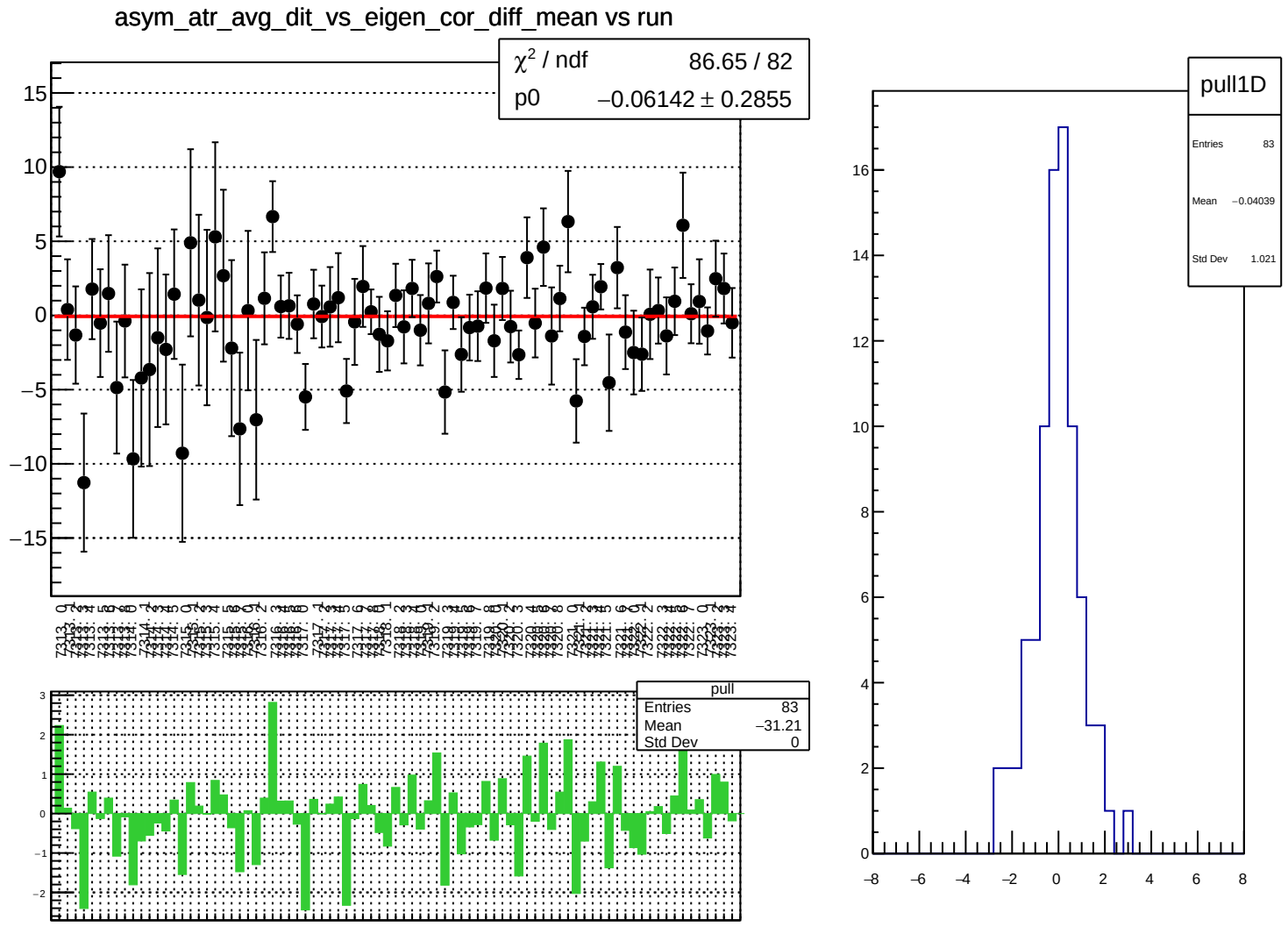

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.2 / 82
p0 −3.682e−13 ± 3.377e−13
pull
Entries 83
Mean 85.26
Std Dev 0

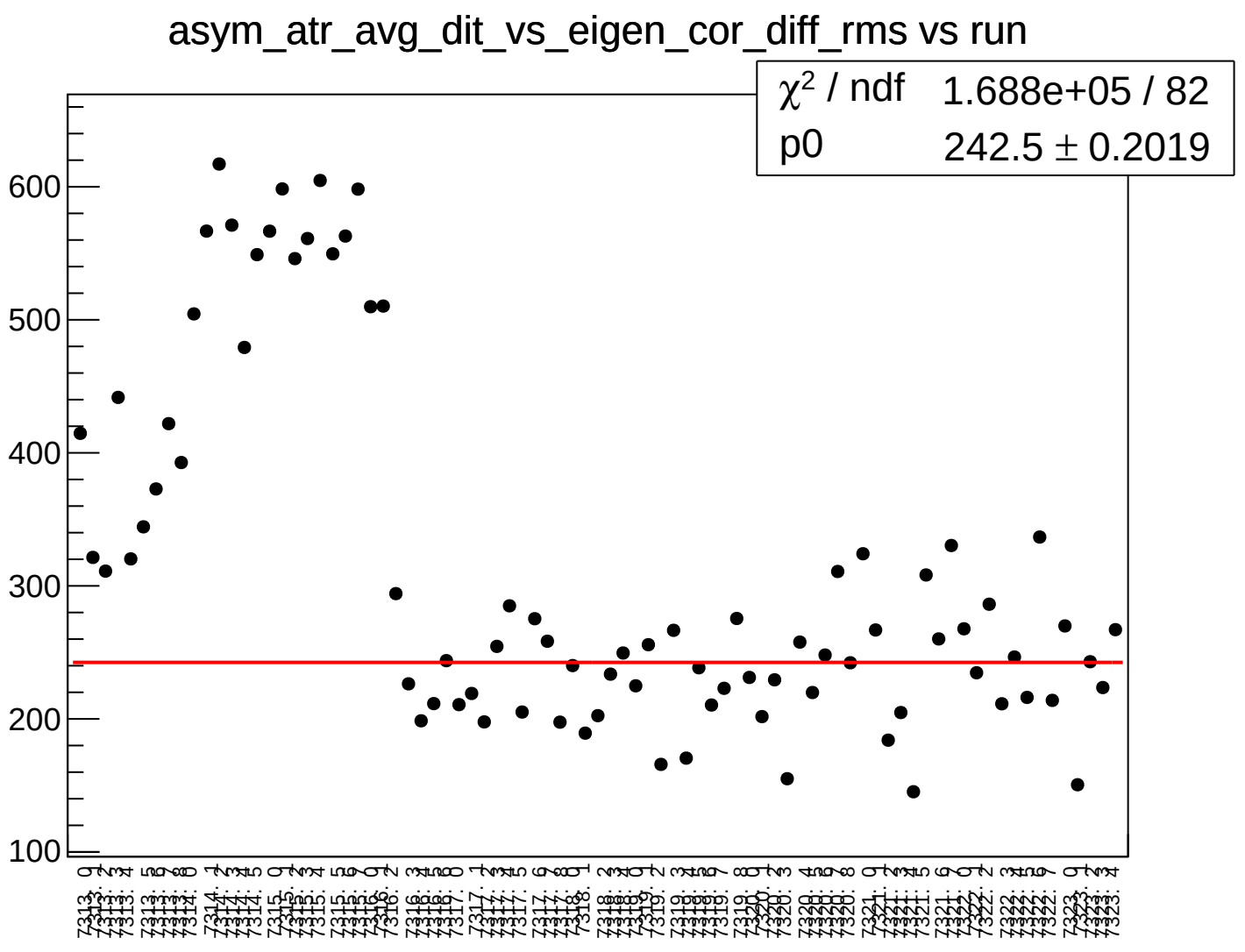

pull1D
Entries 83
Mean −0.03787
Std Dev 0.9511

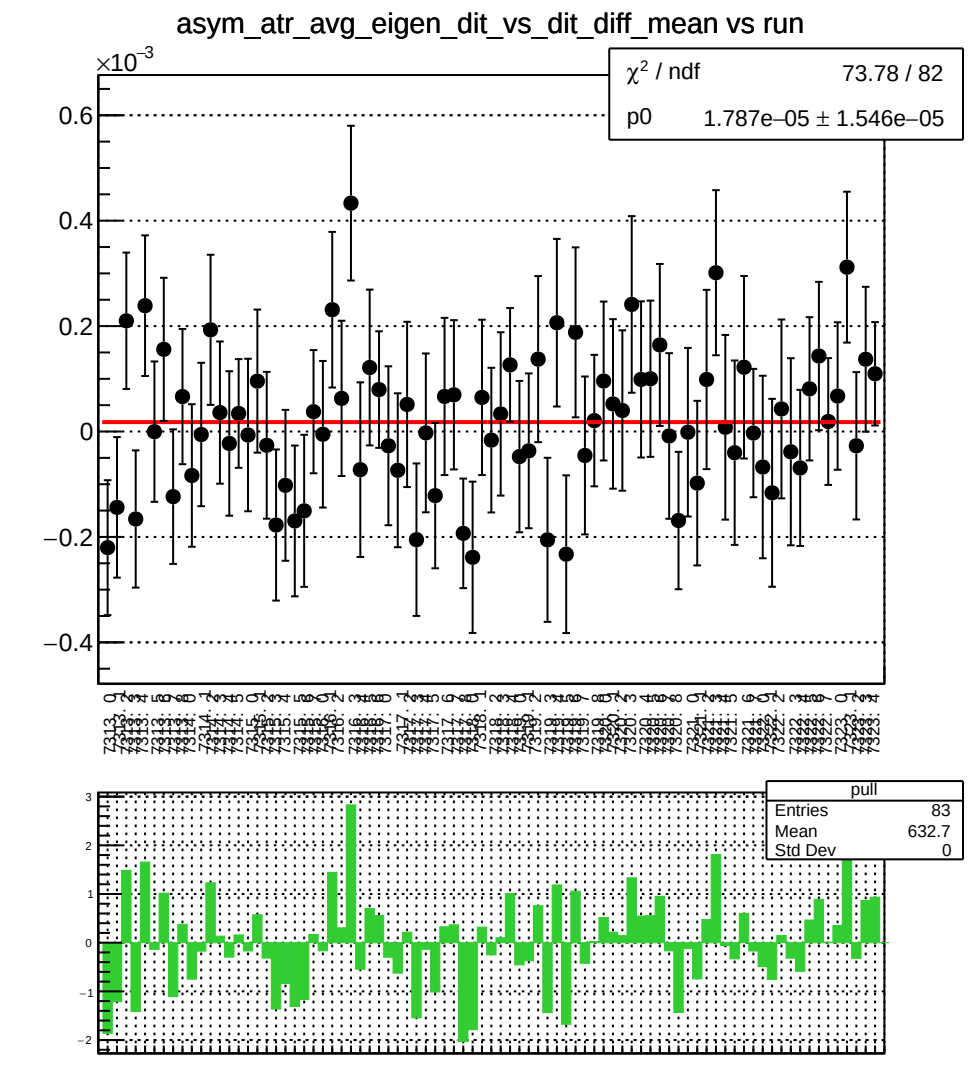

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.187e+06 / 82
p0 1.557e−10 ± 2.388e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

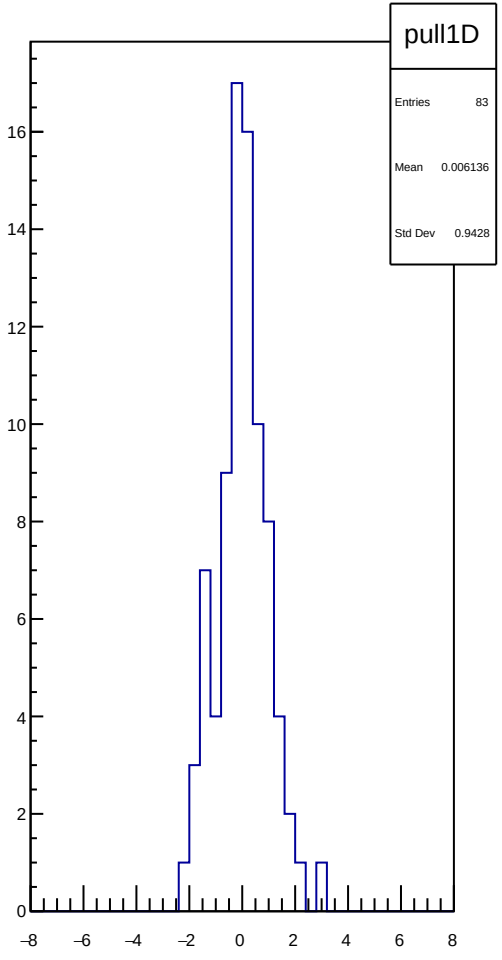

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 82
p0 −0.06142 ± 0.2855
pull
Entries 83
Mean −31.21
Std Dev 0
pull1D
Entries 83
Mean −0.04039
Std Dev 1.021

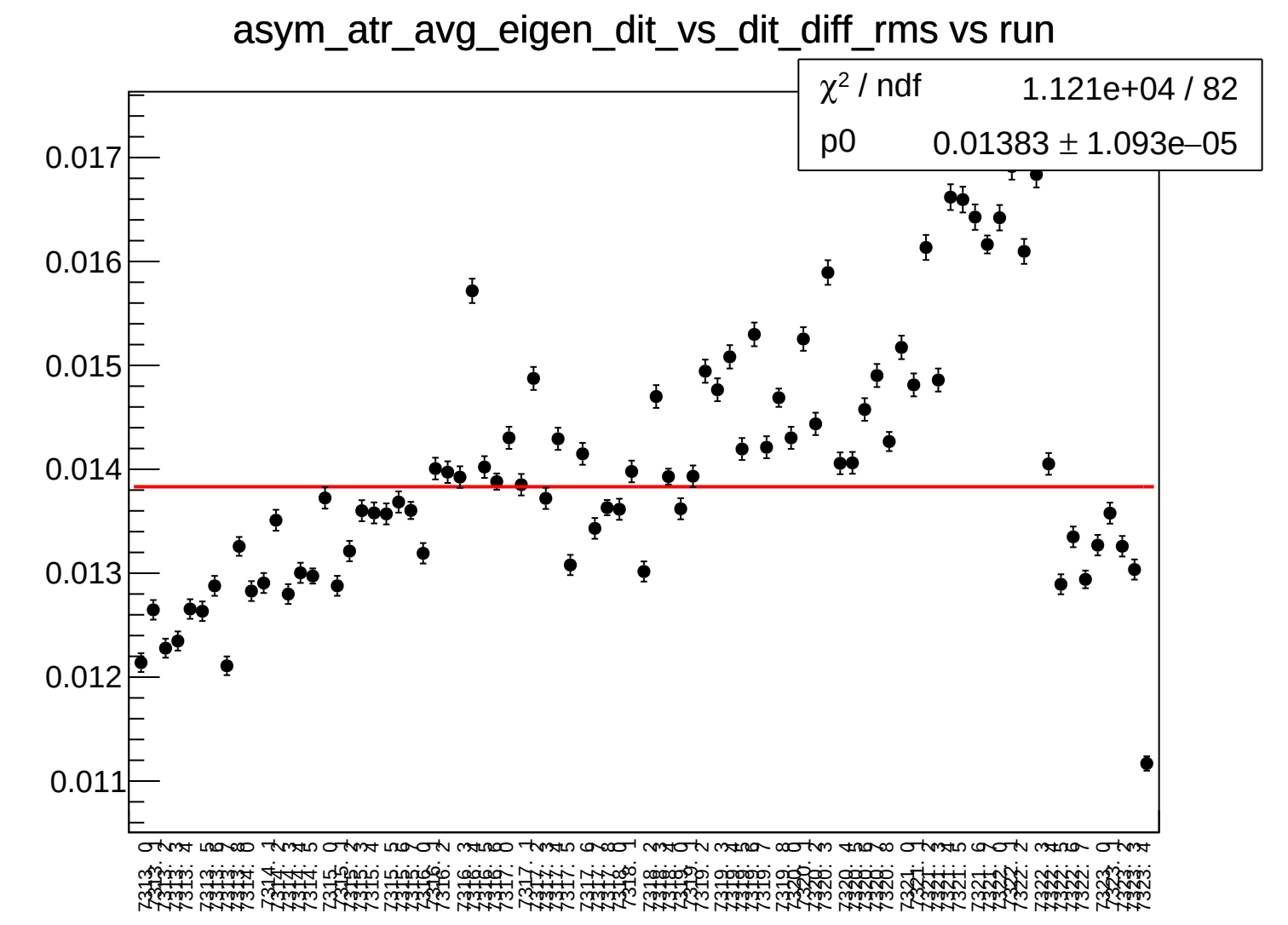

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 82
p0 242.5 ± 0.2019
600
500
400
300
200
100

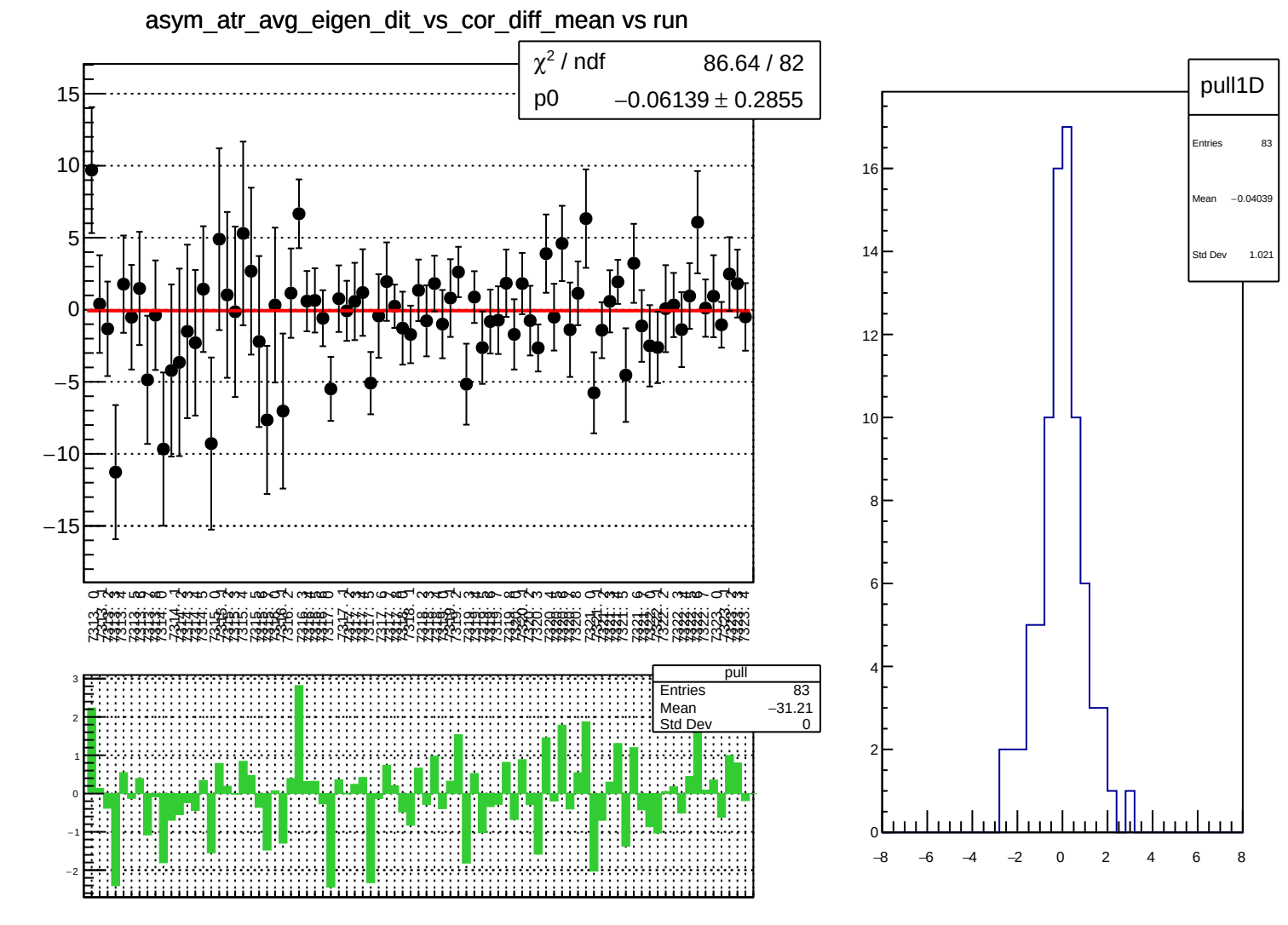

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 82
p0 −0.06142 ± 0.2855
pull
Entries 83
Mean −31.21
Std Dev 0
pull1D
Entries 83
Mean −0.04039
Std Dev 1.021

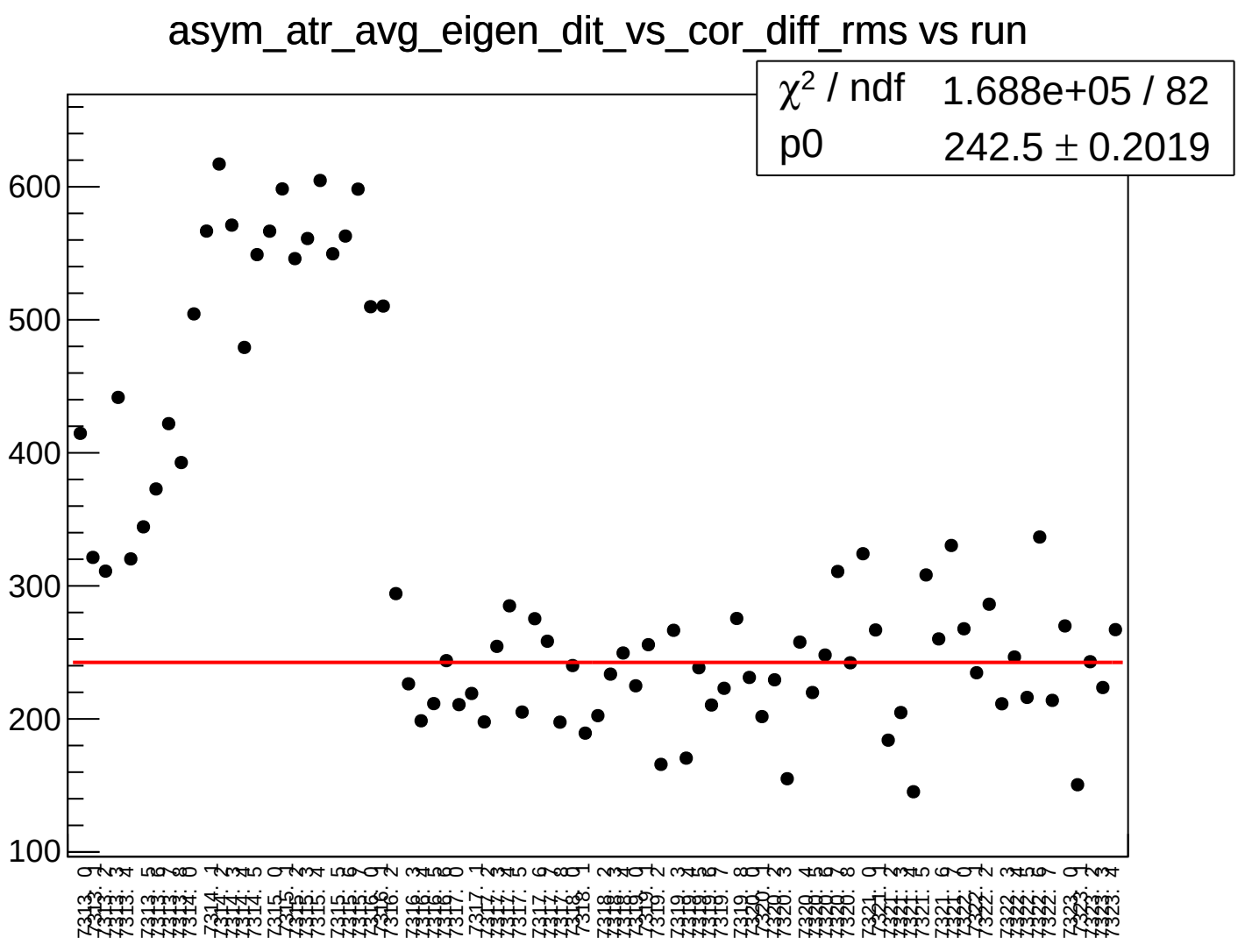

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 82
p0 242.5 ± 0.2019
600
500
400
300
200
100

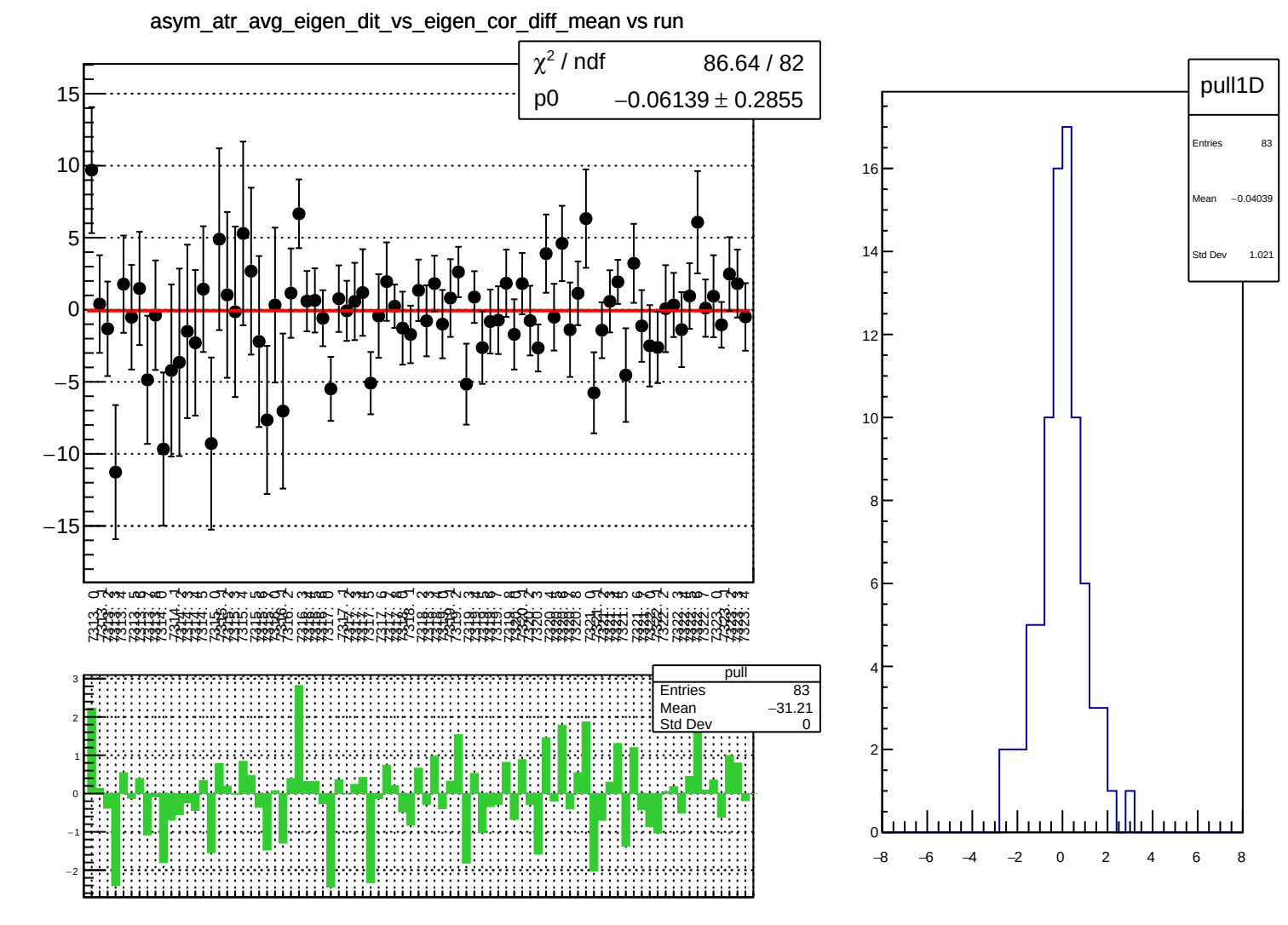

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.78 / 82
p0 1.787e−05 ± 1.546e−05
pull
Entries 83
Mean 632.7
Std Dev 0

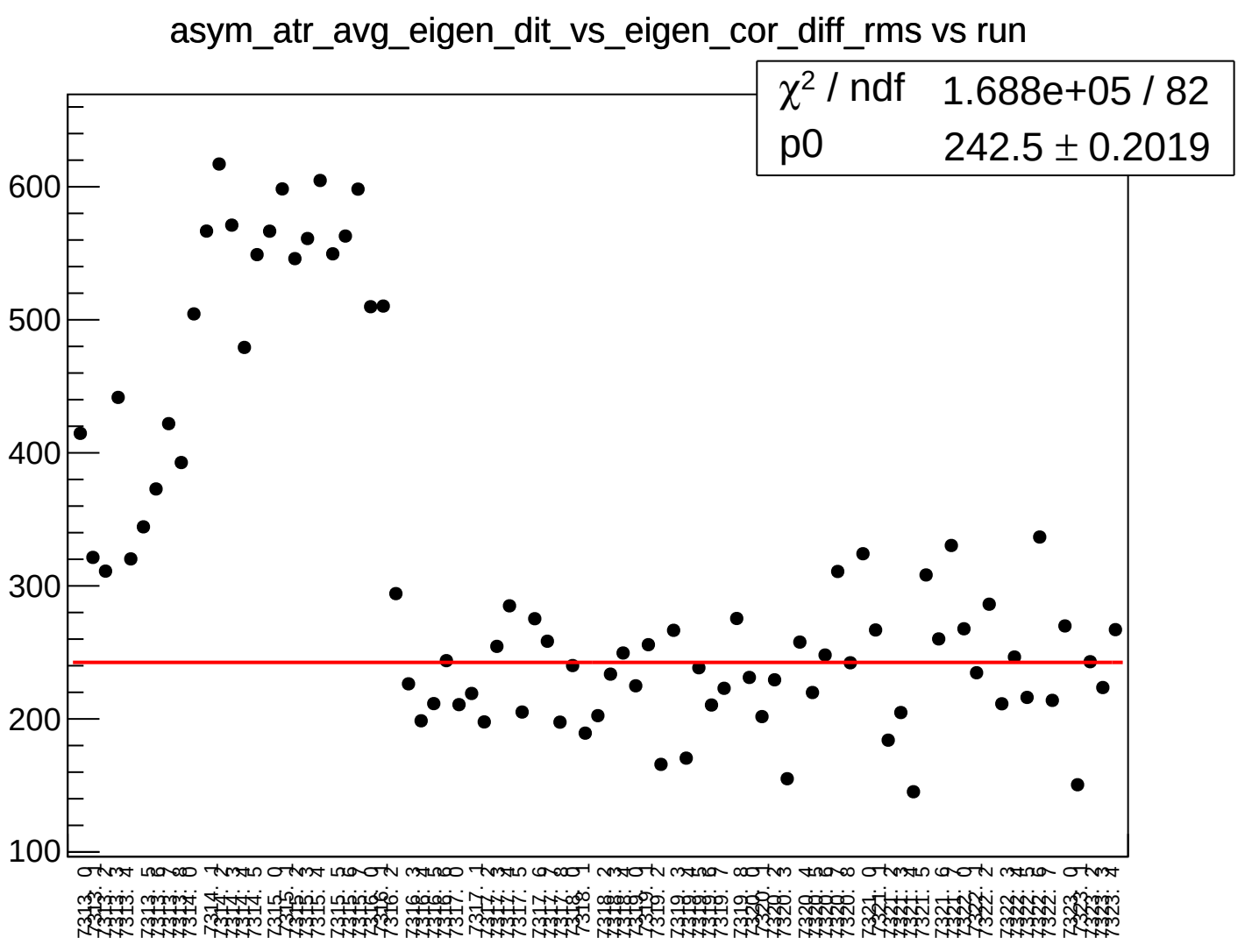

pull1D
Entries 83
Mean 0.006136
Std Dev 0.9428

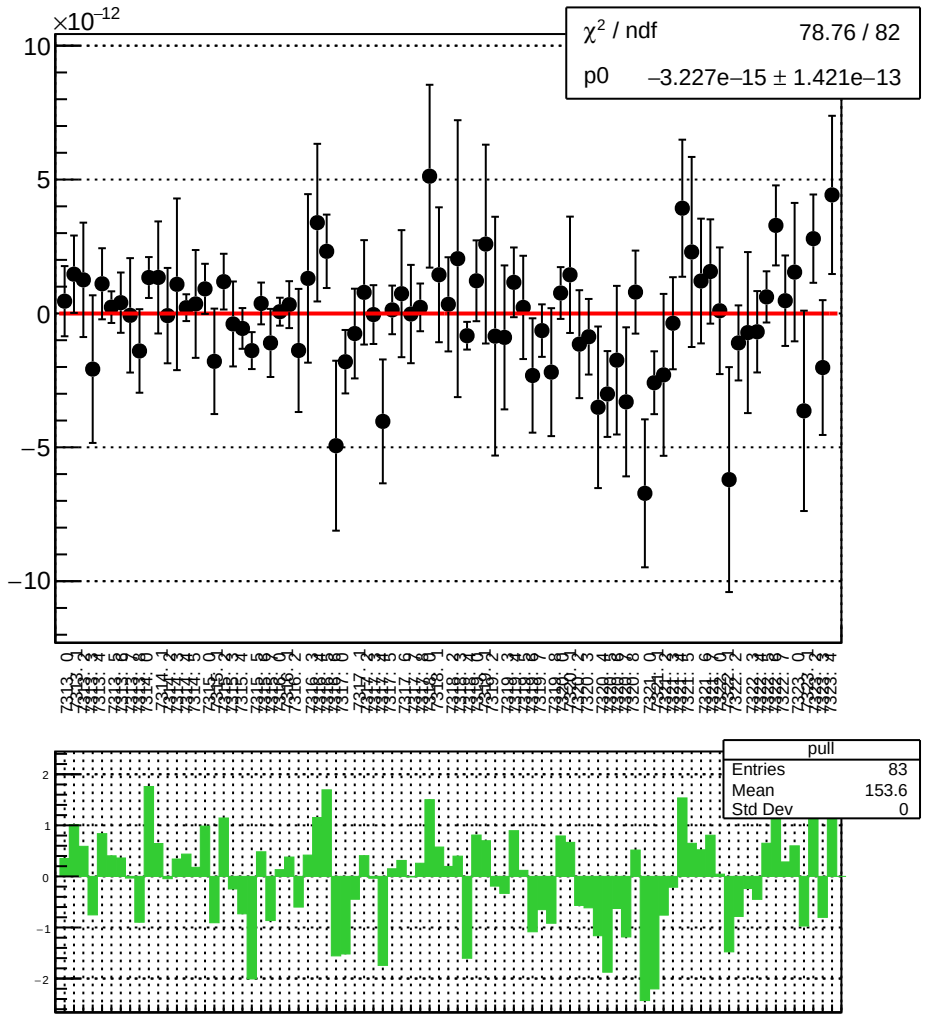

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.121e+04 / 82
p0 0.01383 ± 1.093e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

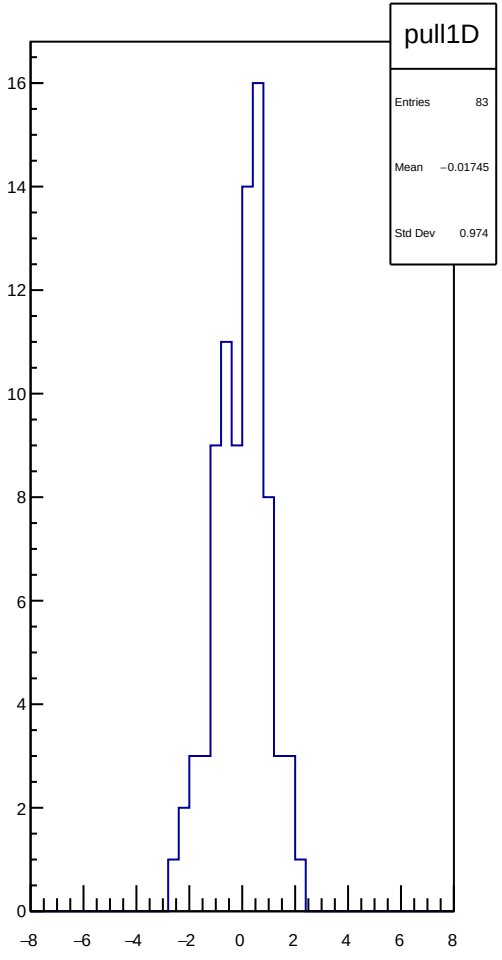

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 82
p0 −0.06139 ± 0.2855
pull
Entries 83
Mean −31.21
Std Dev 0
pull1D
Entries 83
Mean −0.04039
Std Dev 1.021

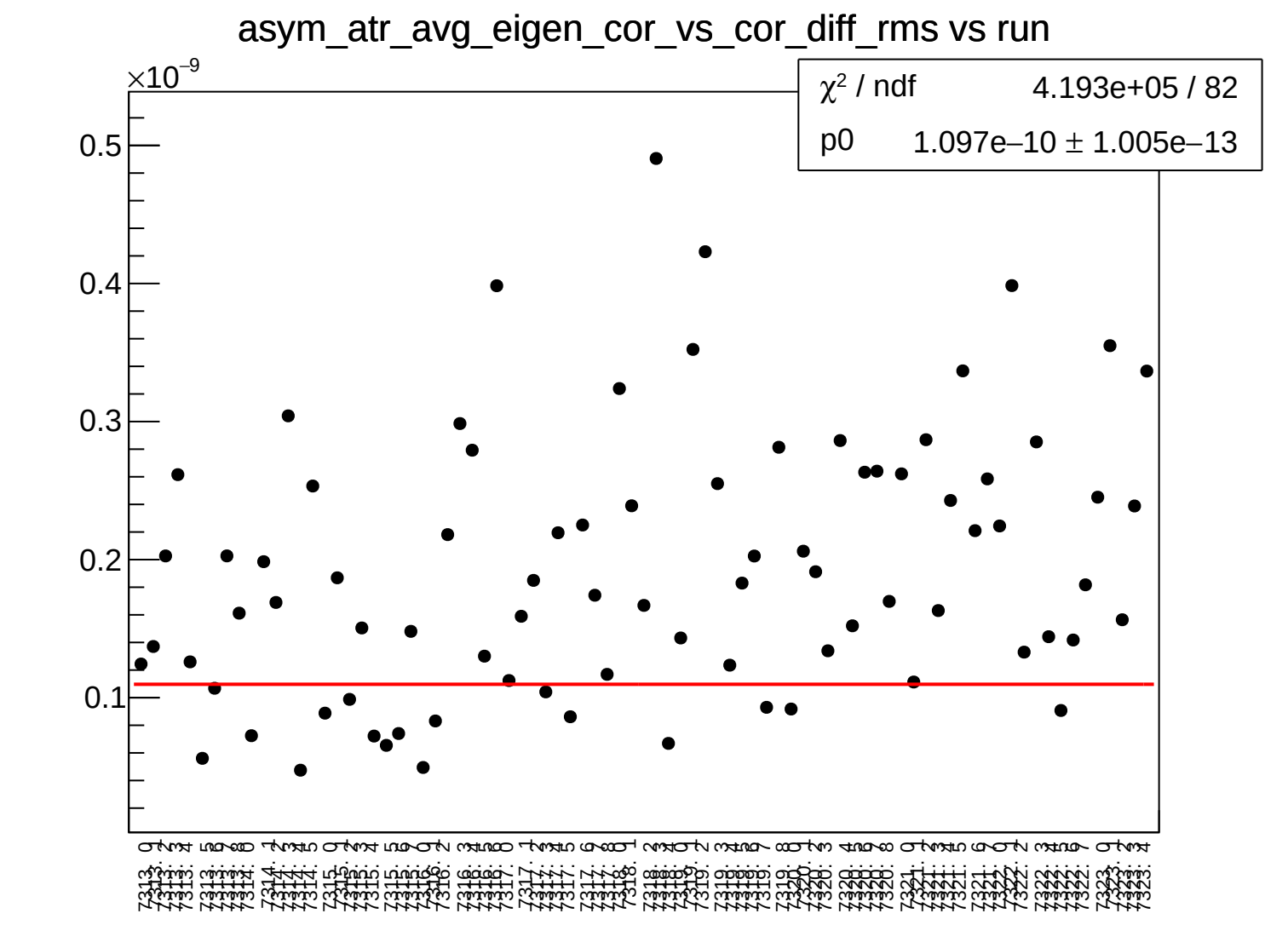

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 82
p0 242.5 ± 0.2019
600
500
400
300
200
100

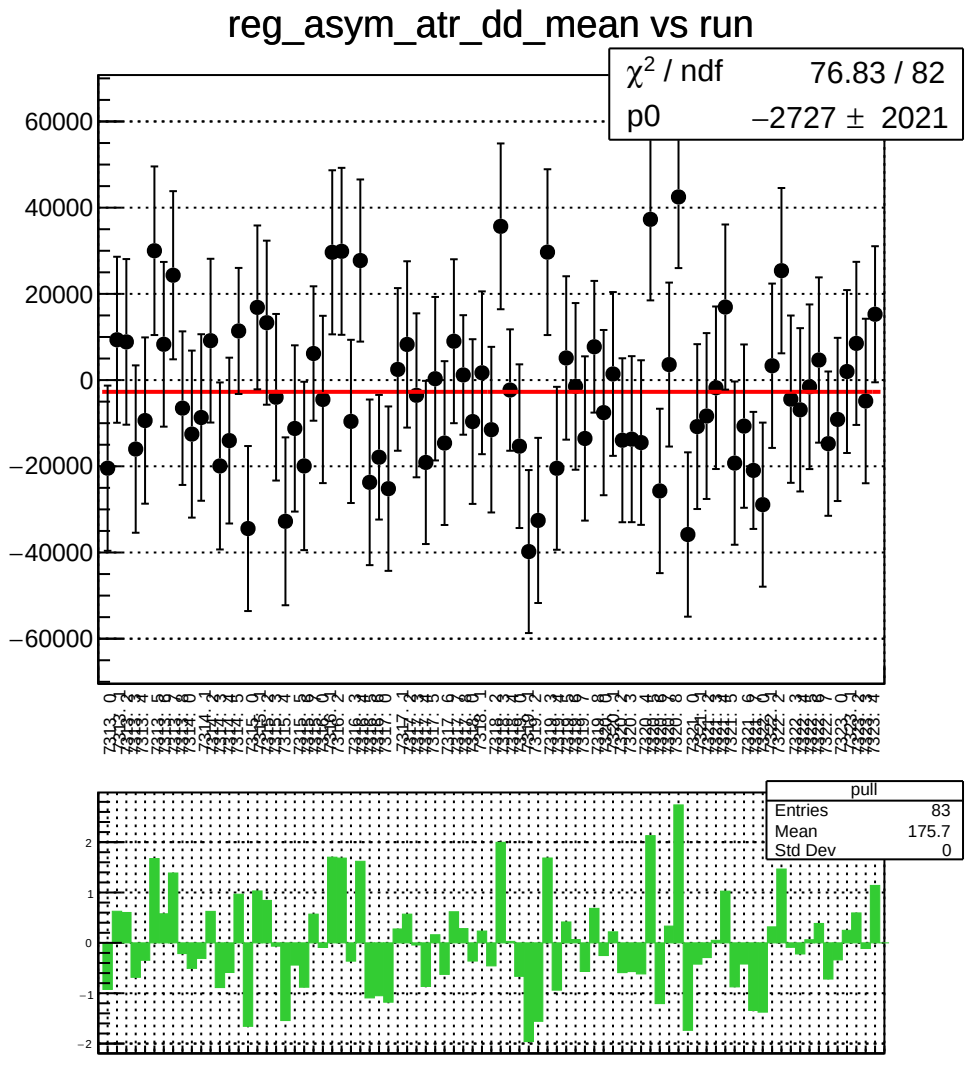

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 82
p0 −0.06139 ± 0.2855
pull
Entries 83
Mean −31.21
Std Dev 0
pull1D
Entries 83
Mean −0.04039
Std Dev 1.021

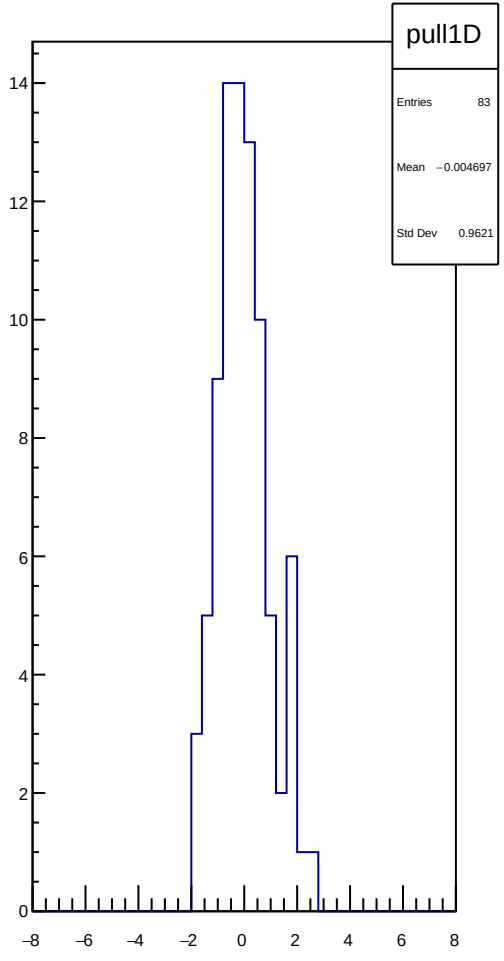

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 82
p0 242.5 ± 0.2019
600
500
400
300
200
100

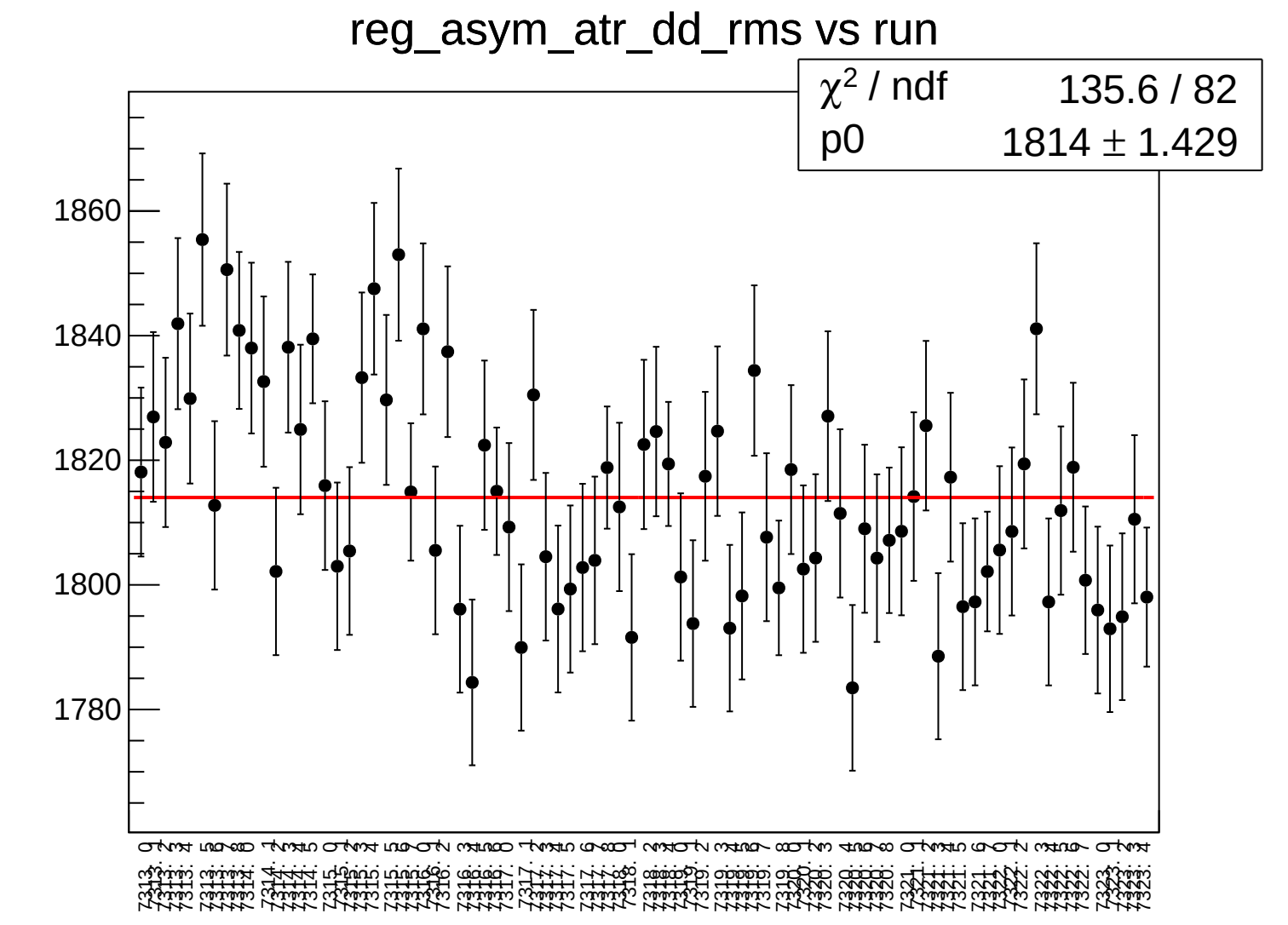

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.76 / 82
p0 −3.227e−15 ± 1.421e−13
pull
Entries 83
Mean 153.6
Std Dev 0

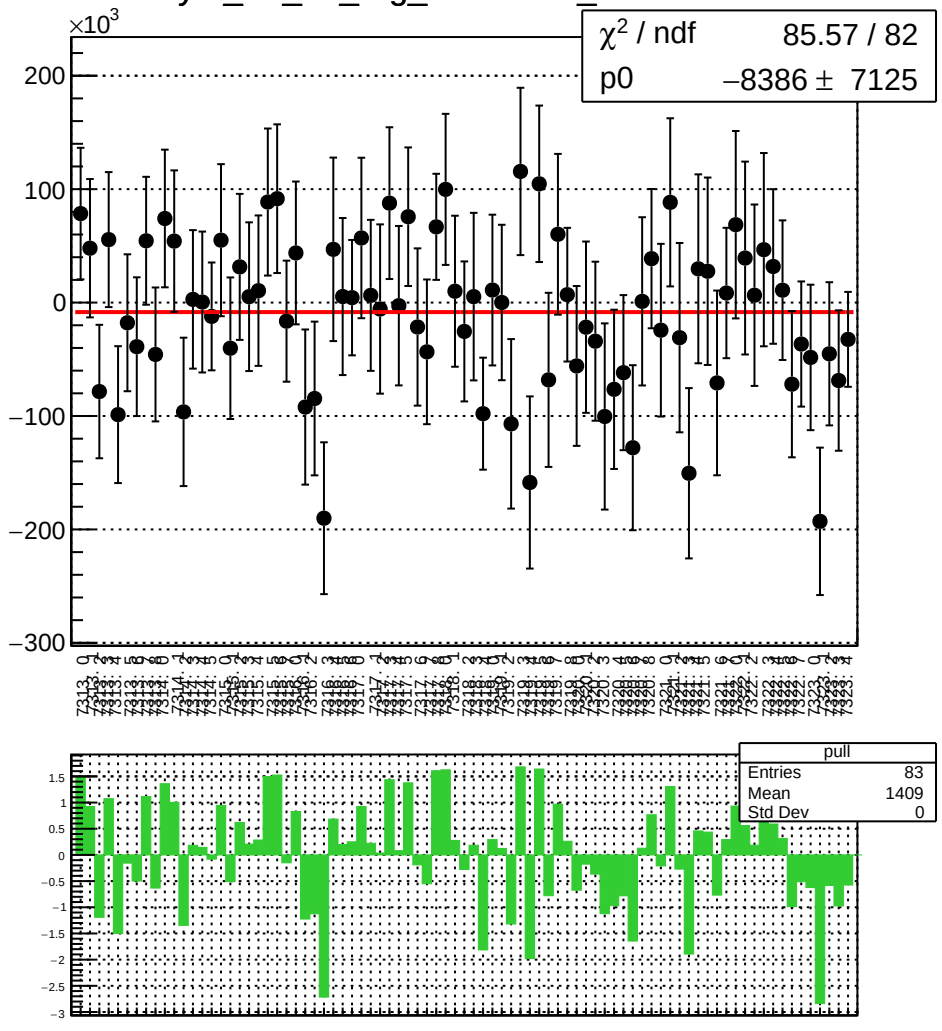

pull1D
Entries 83
Mean −0.01745
Std Dev 0.974

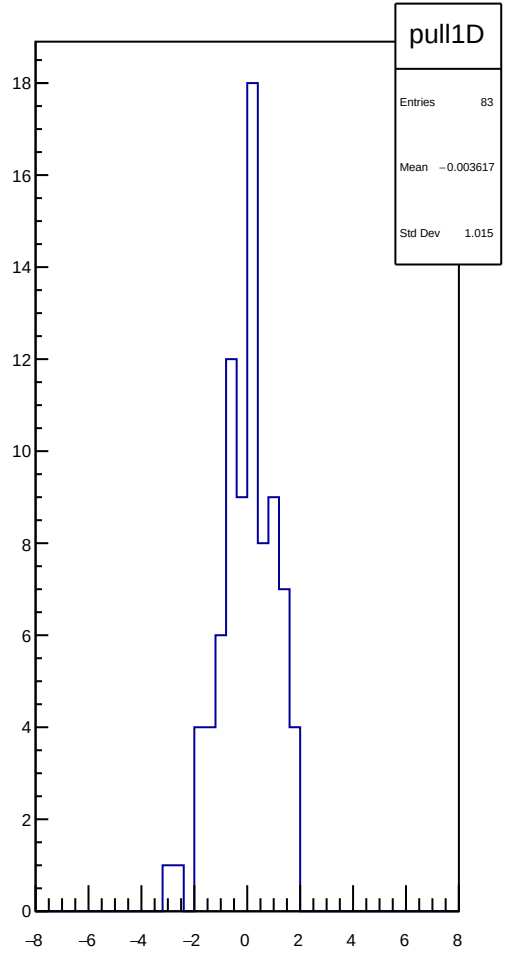

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.193e+05 / 82
p0 1.097e−10 ± 1.005e−13
0.5
0.4
0.3
0.2
0.1

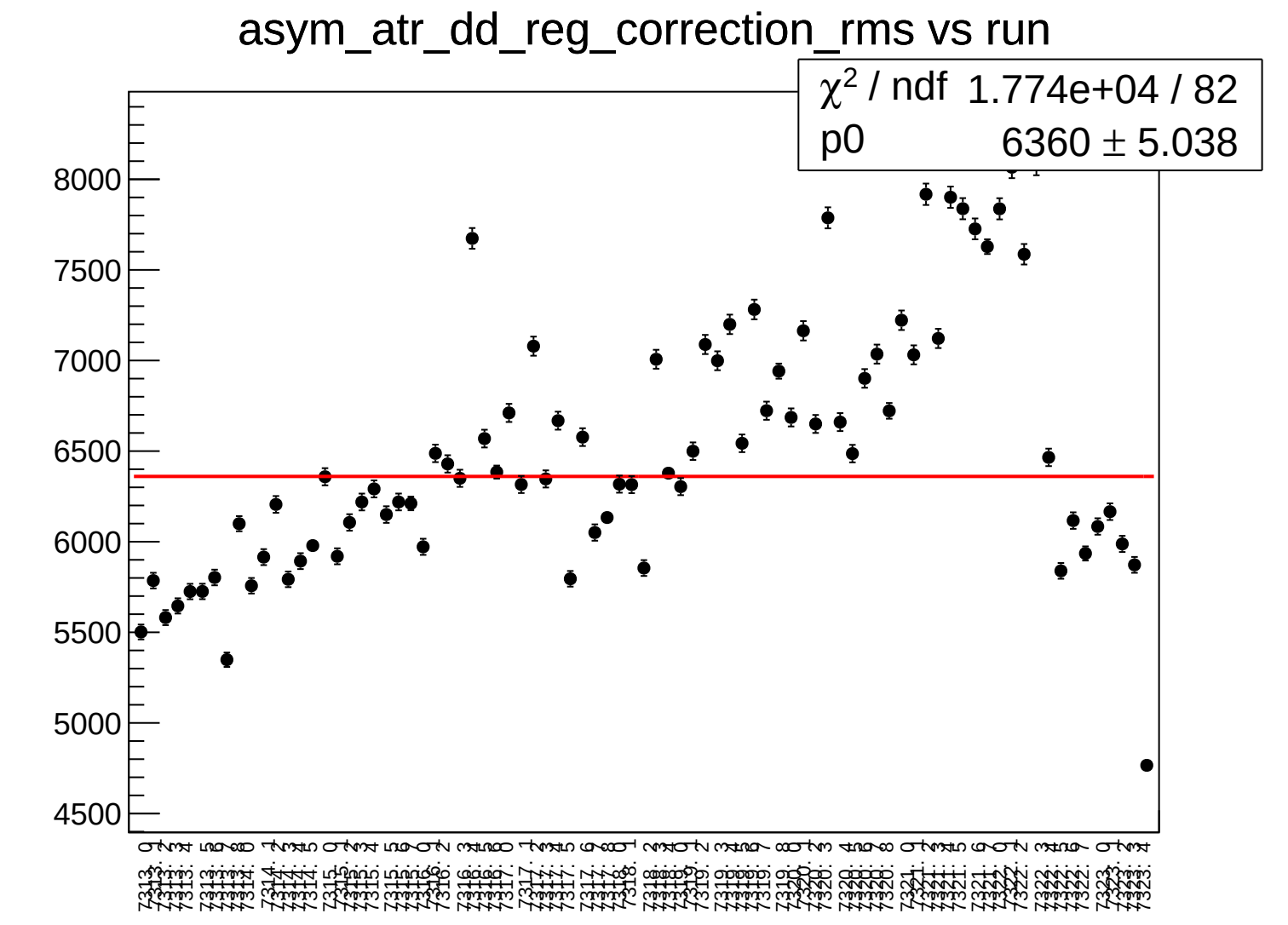

reg_asym_atr_dd_mean vs run
χ² / ndf 76.83 / 82
p0 −2727 ± 2021
pull
Entries 83
Mean 175.7
Std Dev 0

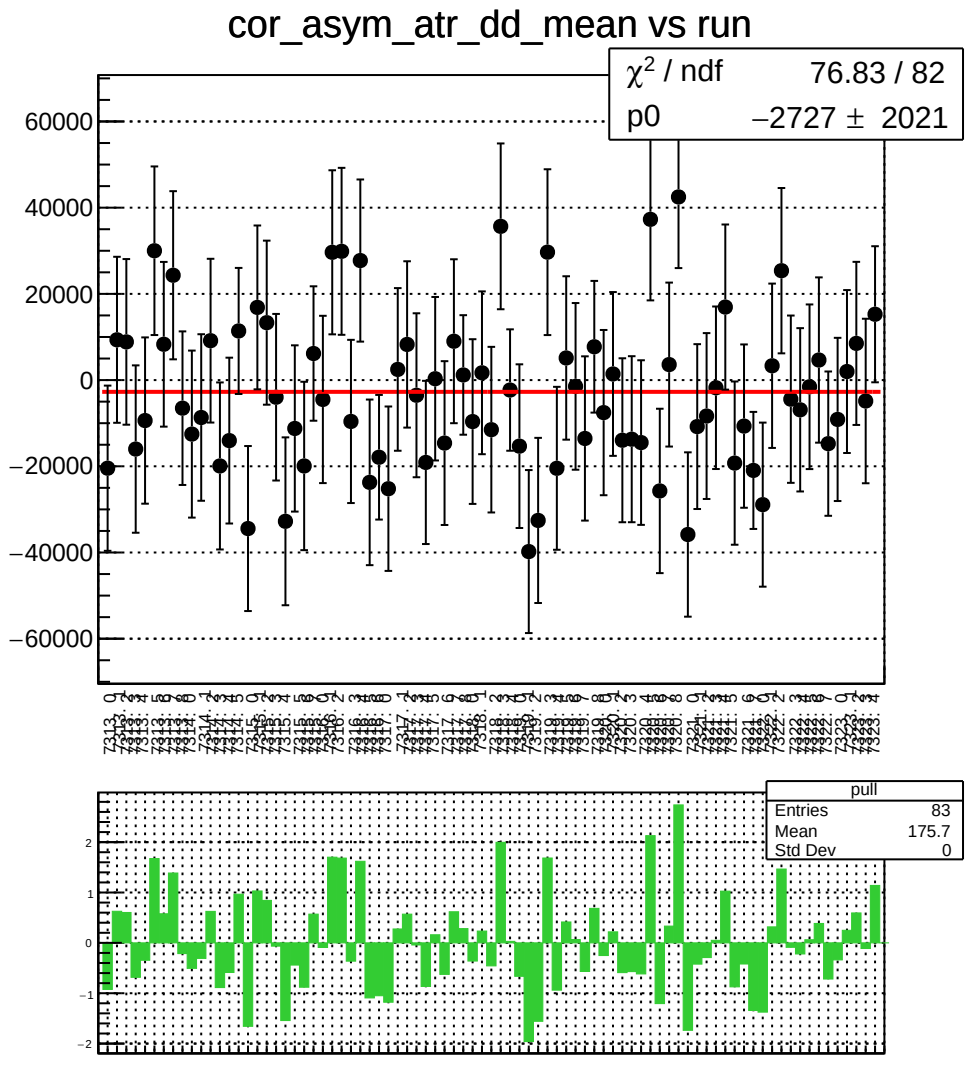

pull1D
Entries 83
Mean −0.004697
Std Dev 0.9621

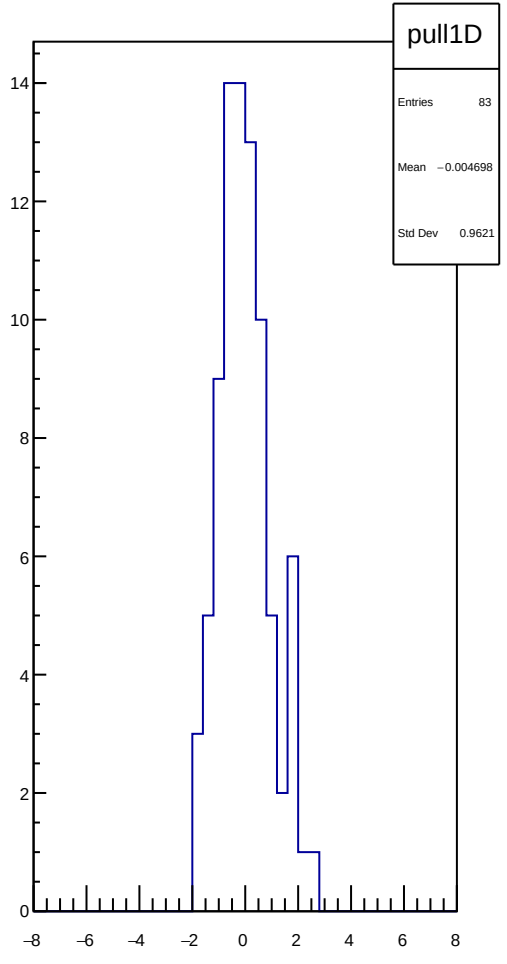

reg_asym_atr_dd_rms vs run
χ² / ndf 135.6 / 82
p0 1814 ± 1.429
1860
1840
1820
1800
1780

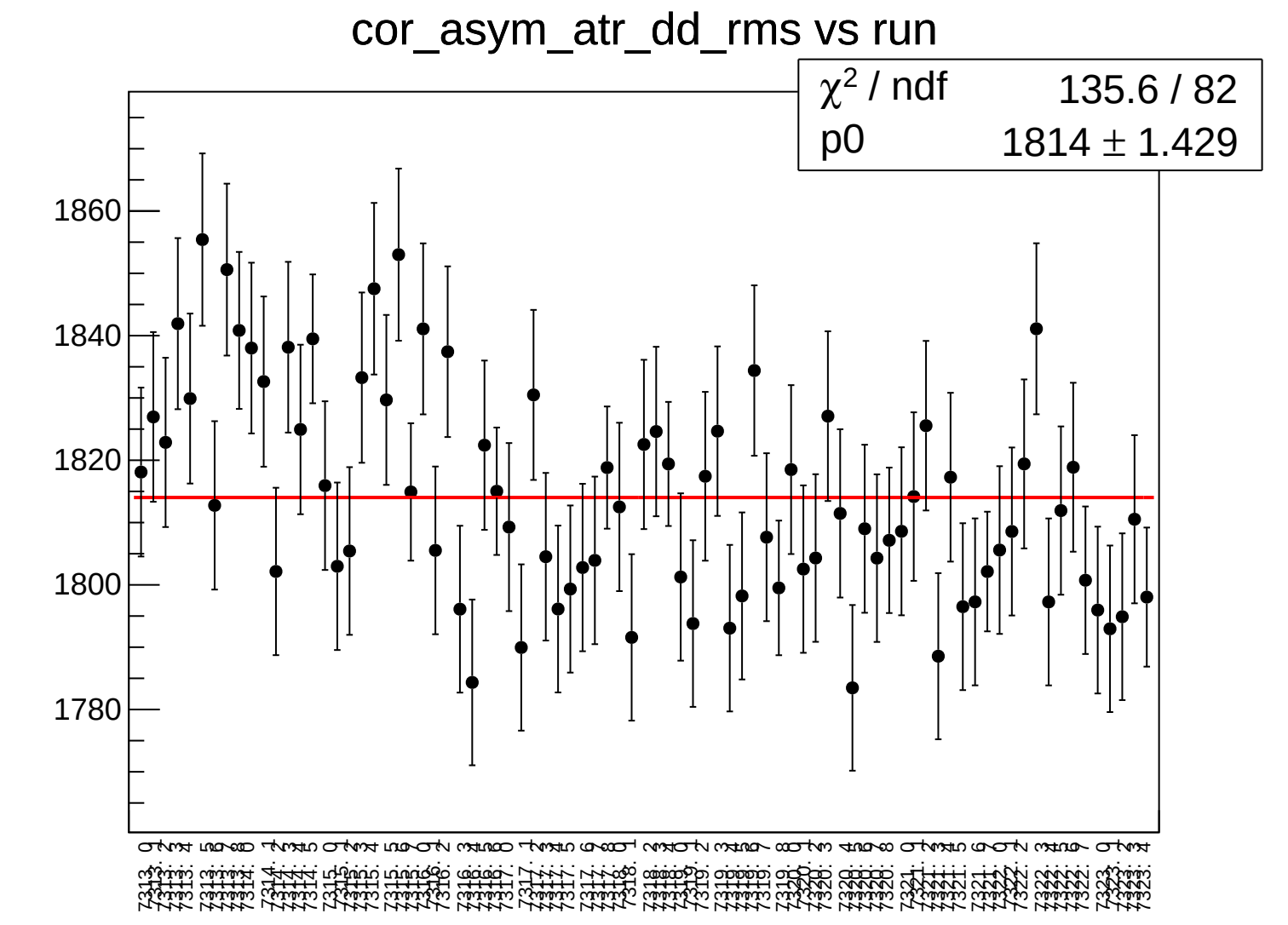

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.57 / 82
p0 −8386 ± 7125
pull
Entries 83
Mean 1409
Std Dev 0

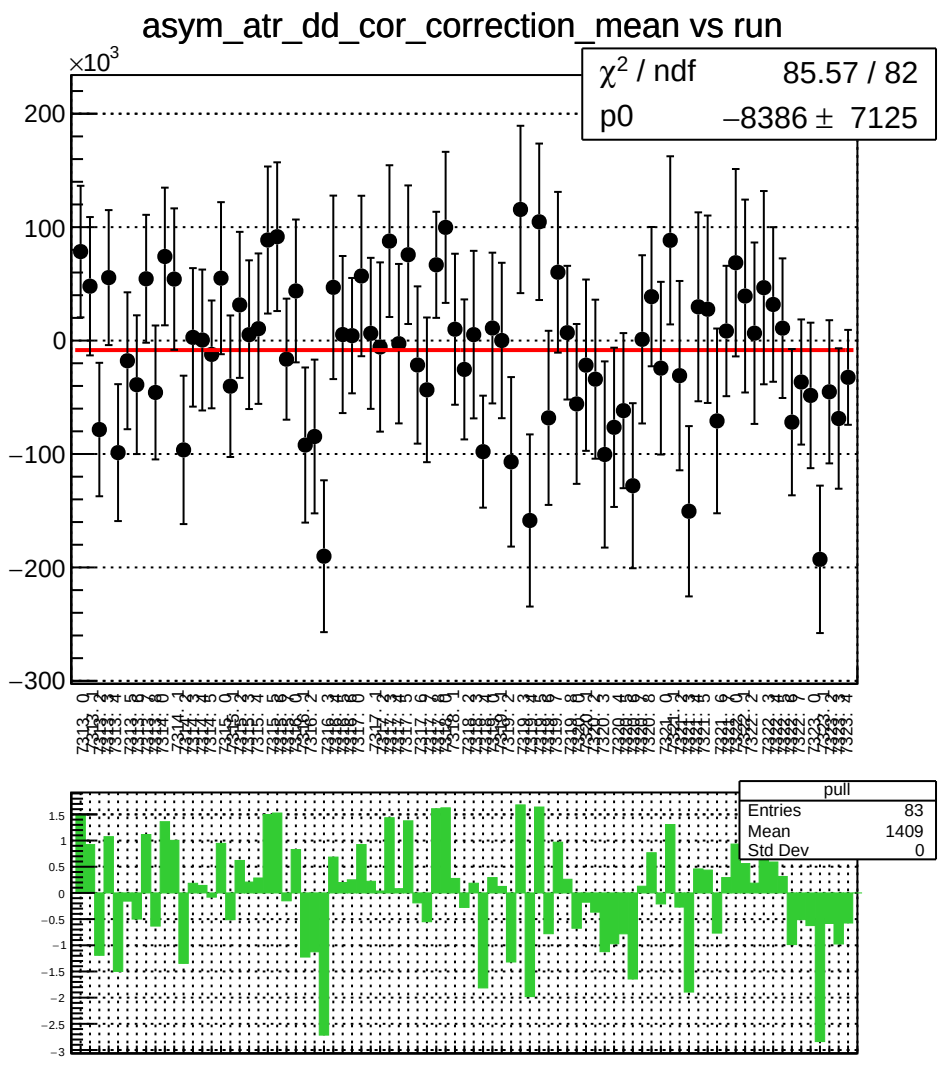

pull1D
Entries 83
Mean −0.003617
Std Dev 1.015

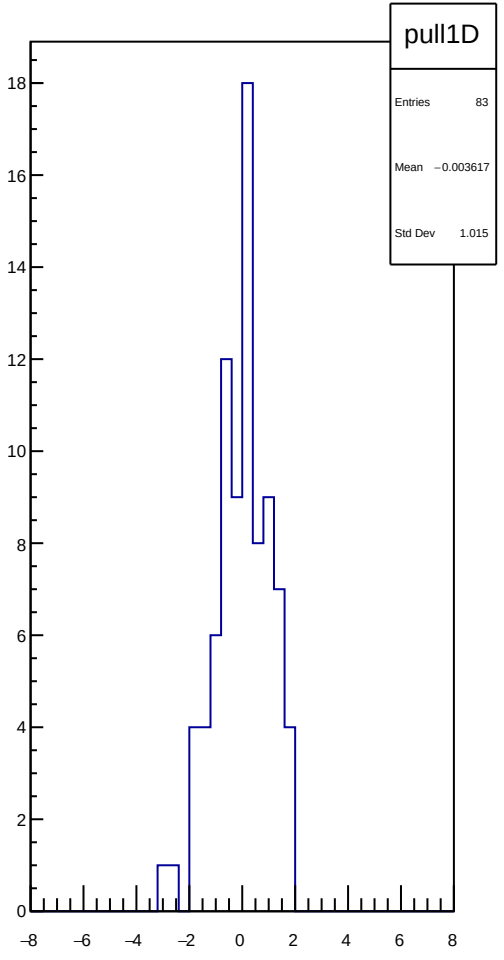

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.774e+04 / 82
p0 6360 ± 5.038
8000
7500
7000
6500
6000
5500
5000
4500

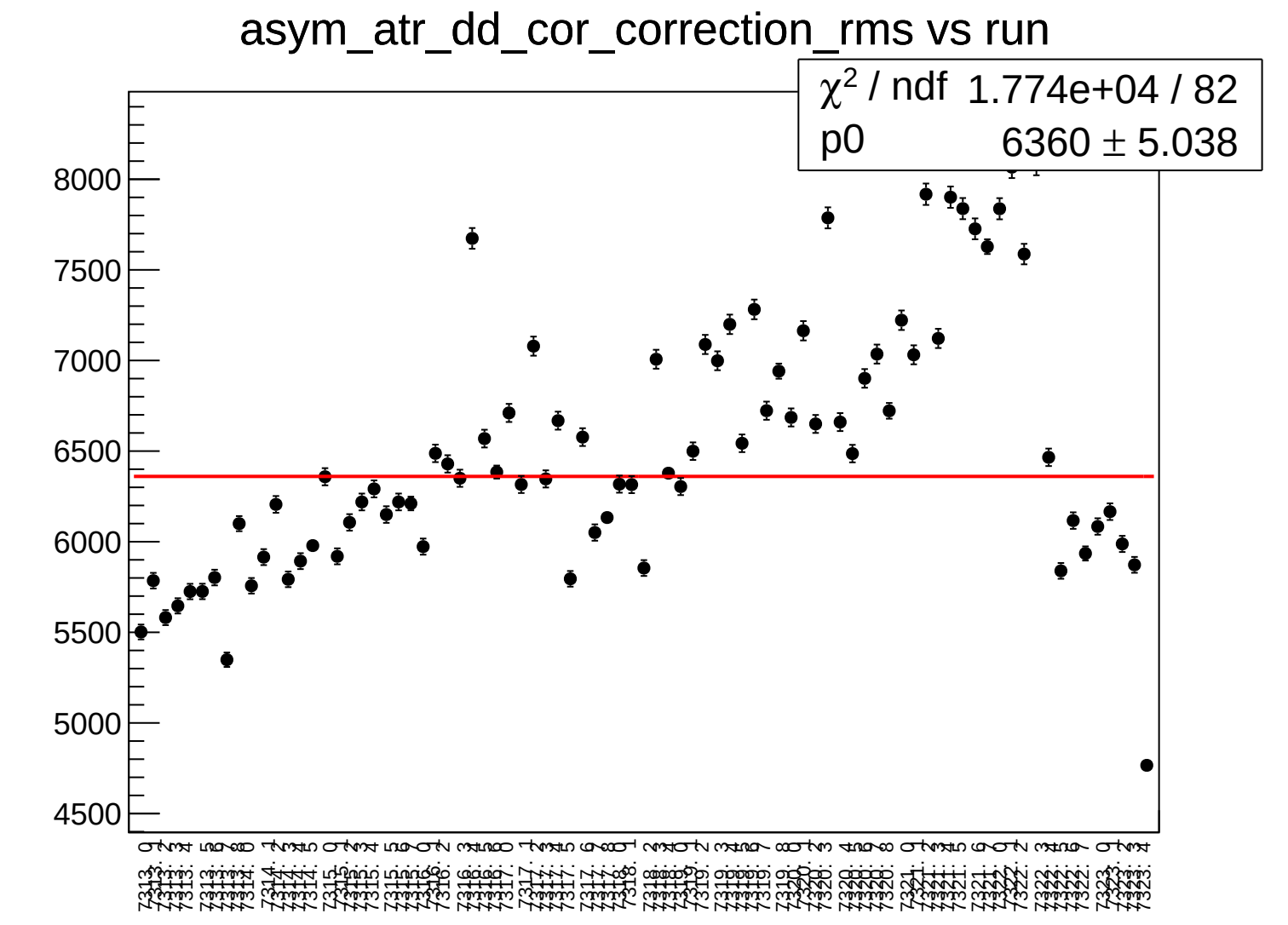

cor_asym_atr_dd_mean vs run
χ² / ndf 76.83 / 82
p0 −2727 ± 2021
pull
Entries 83
Mean 175.7
Std Dev 0

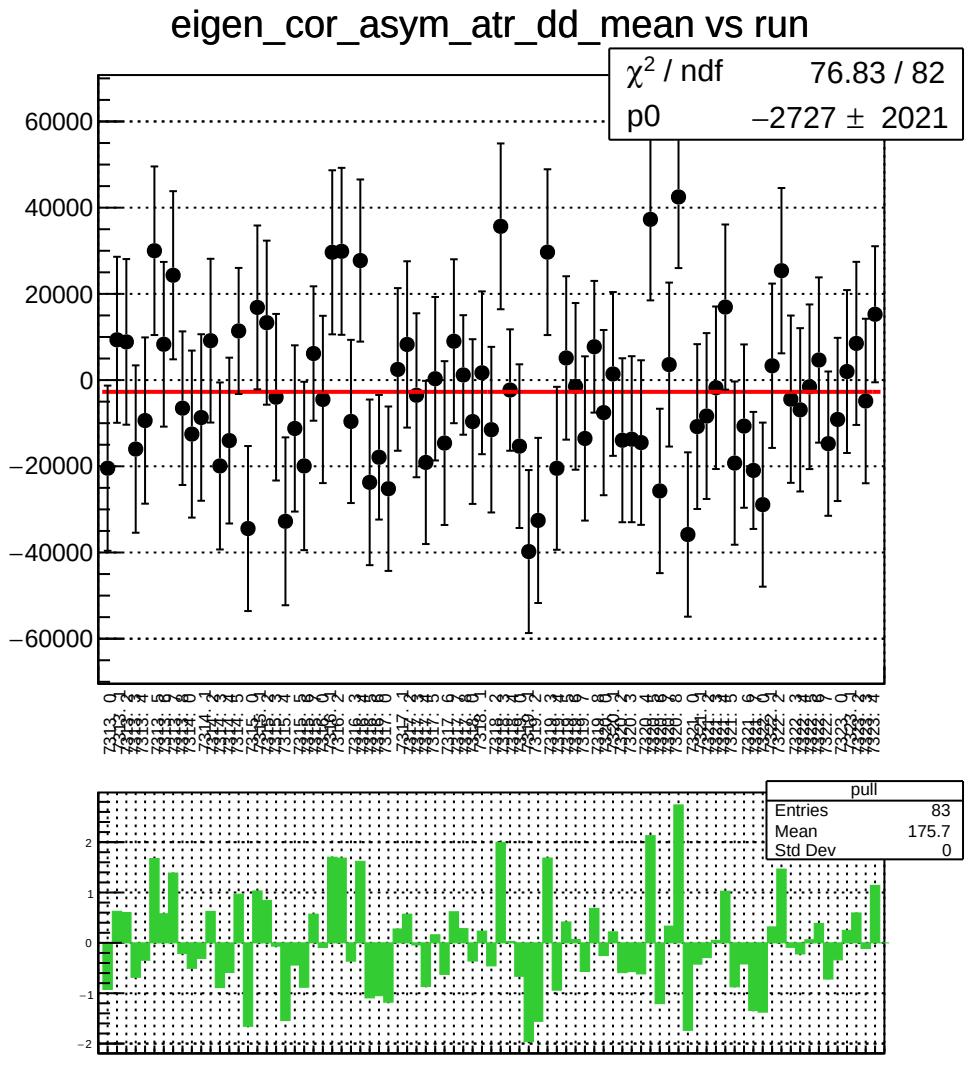

pull1D
Entries 83
Mean −0.004698
Std Dev 0.9621

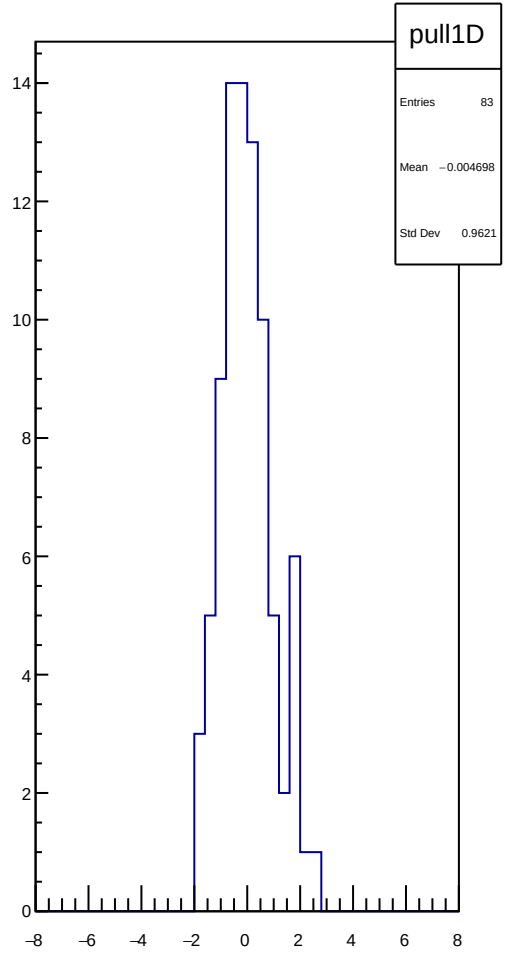

cor_asym_atr_dd_rms vs run
χ^2 / ndf 135.6 / 82
p0 1814 ± 1.429
1860
1840
1820
1800
1780

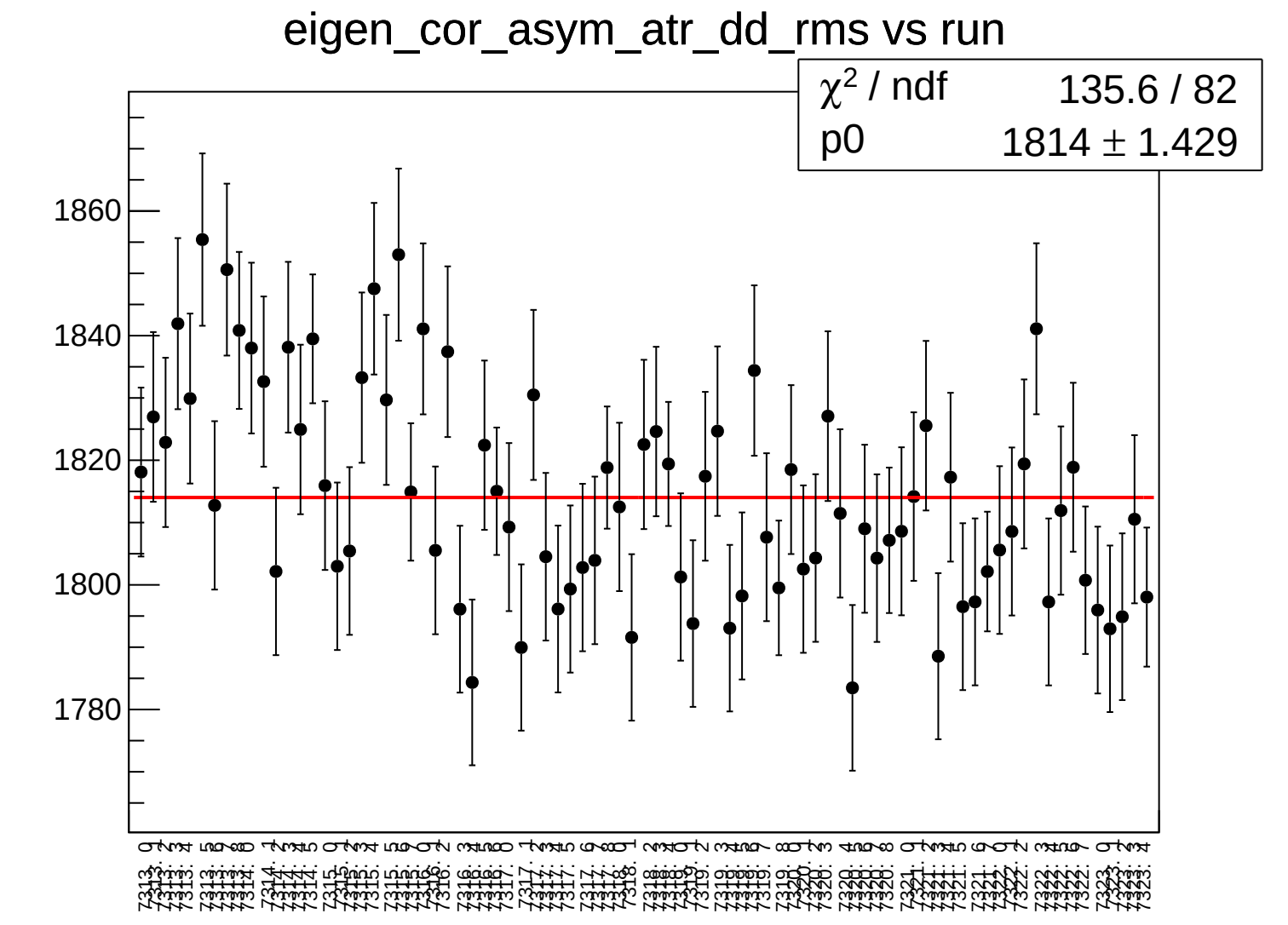

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 85.57 / 82
p0 −8386 ± 7125
pull
Entries 83
Mean 1409
Std Dev 0

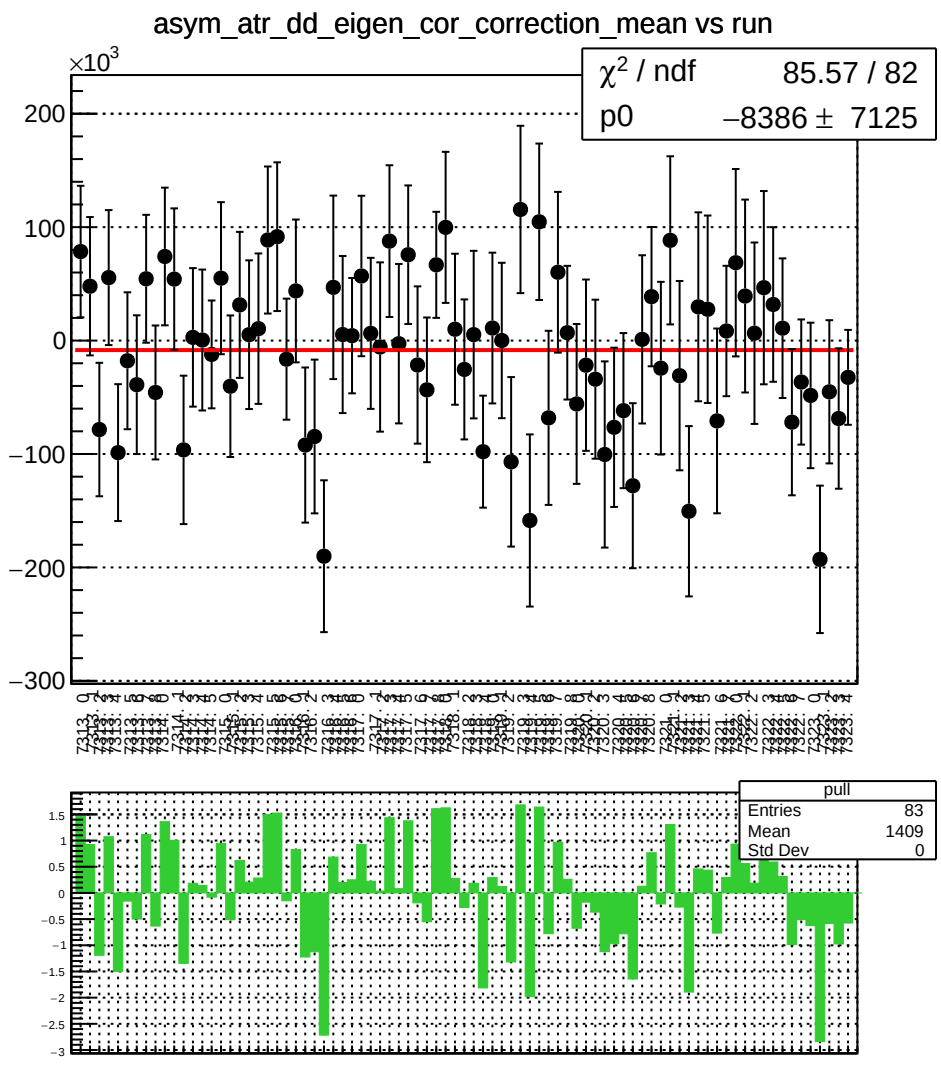

pull1D
Entries 83
Mean −0.003617
Std Dev 1.015

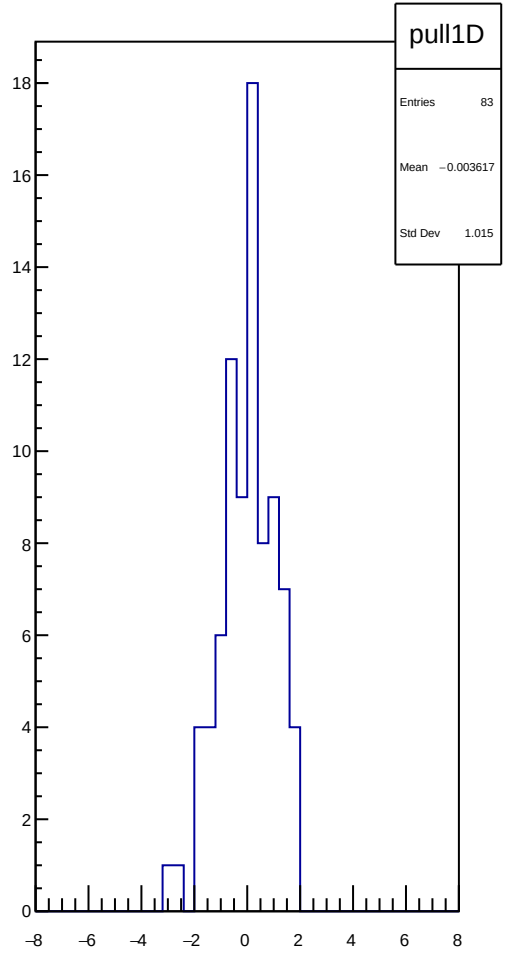

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.774e+04 / 82
p0 6360 ± 5.038
8000
7500
7000
6500
6000
5500
5000
4500

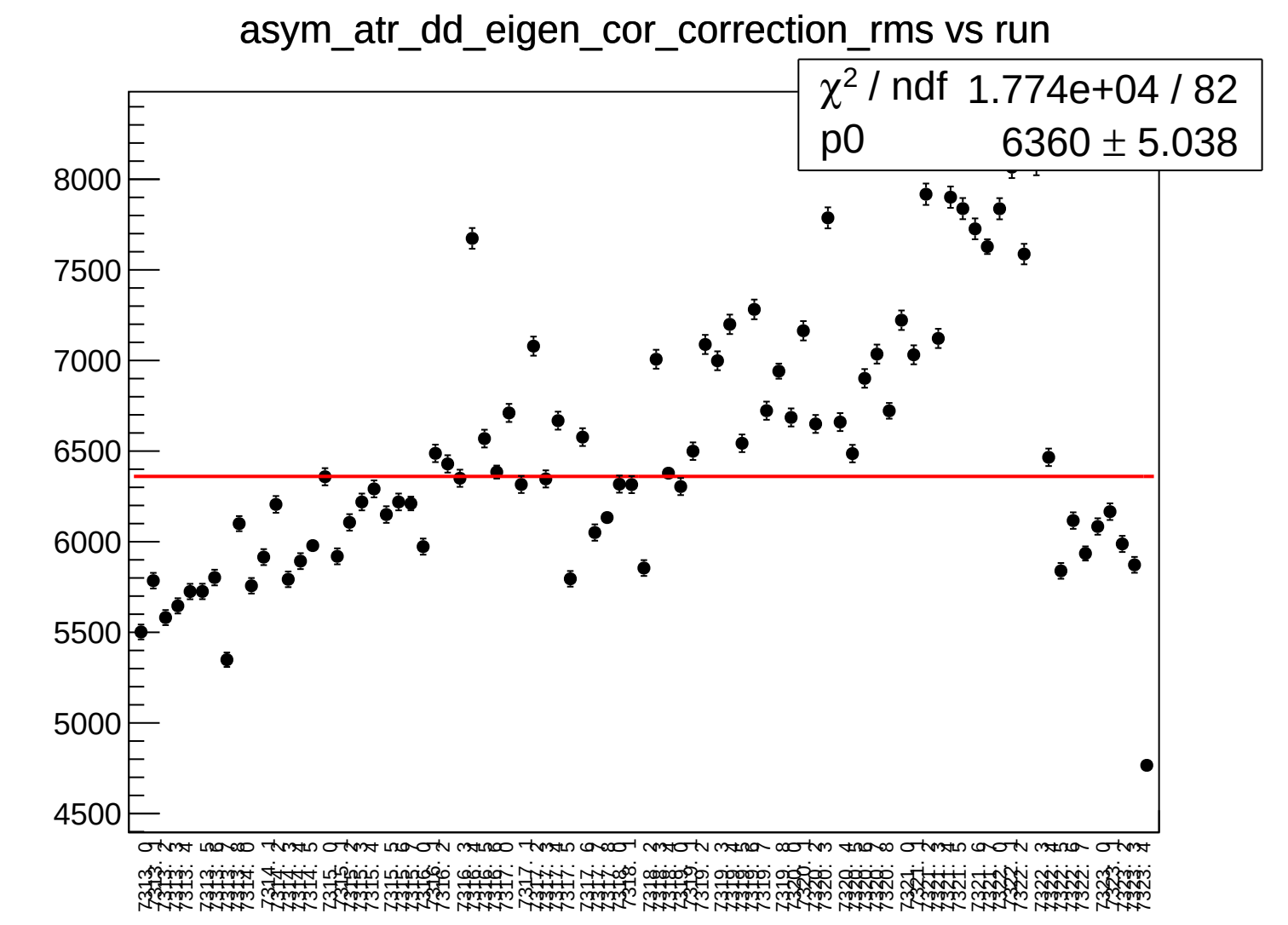

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 76.83 / 82
p0 −2727 ± 2021
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 175.7
Std Dev 0
2
1
0
−1
−2

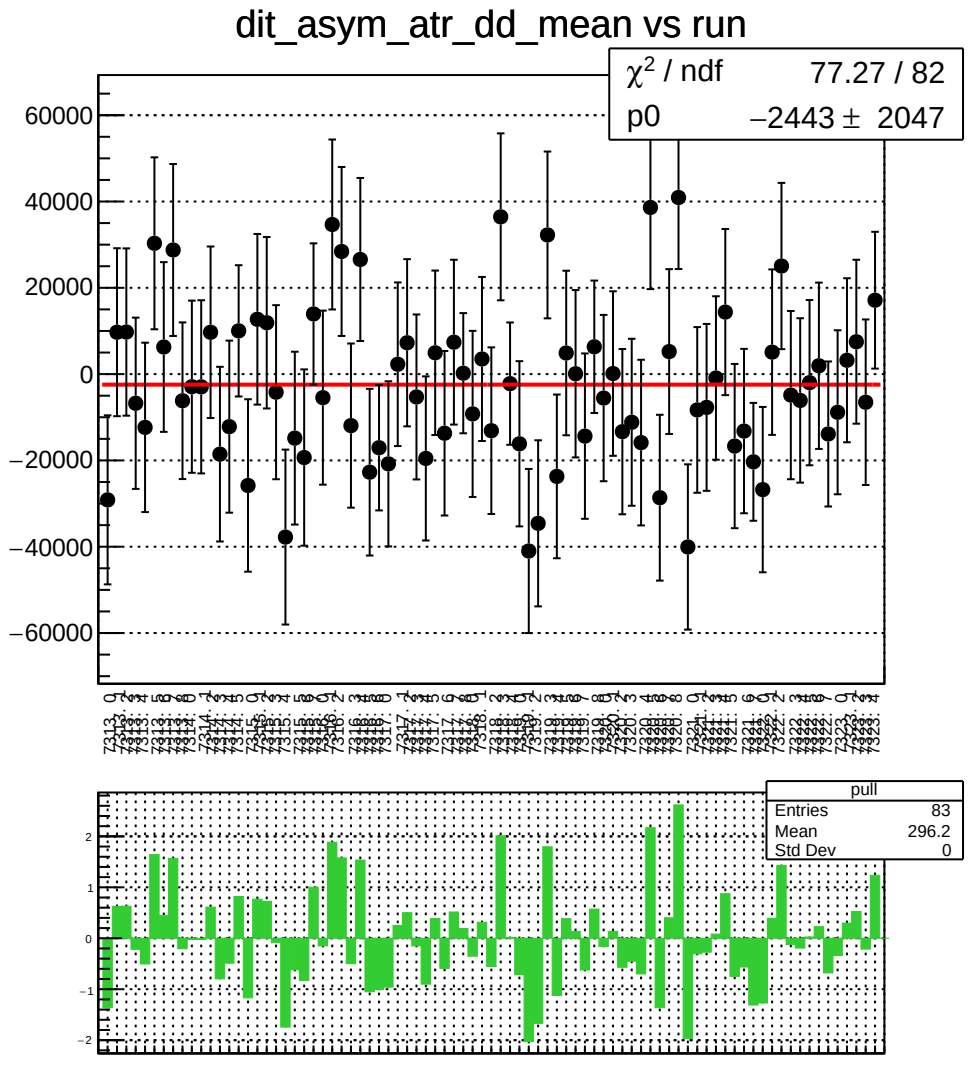

pull1D
Entries 83
Mean −0.004698
Std Dev 0.9621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

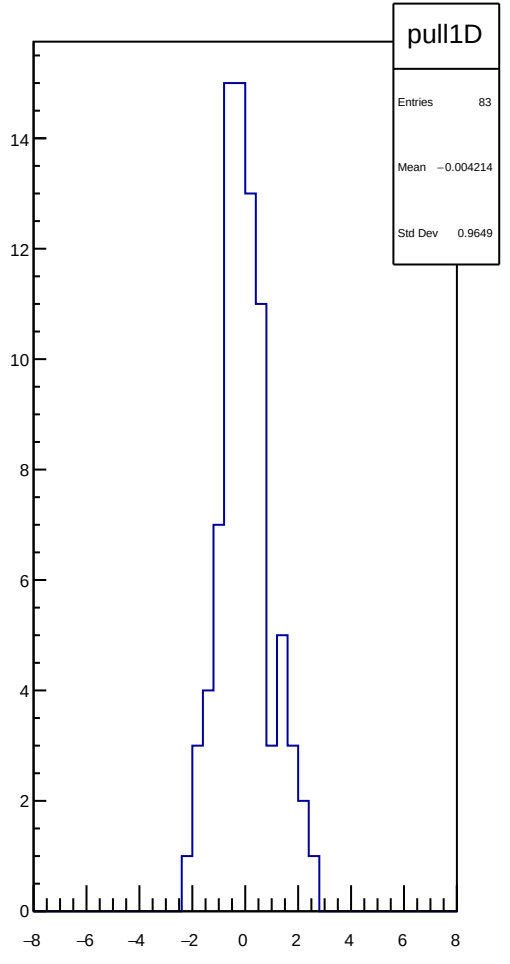

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 135.6 / 82
p0 1814 ± 1.429
1860
1840
1820
1800
1780

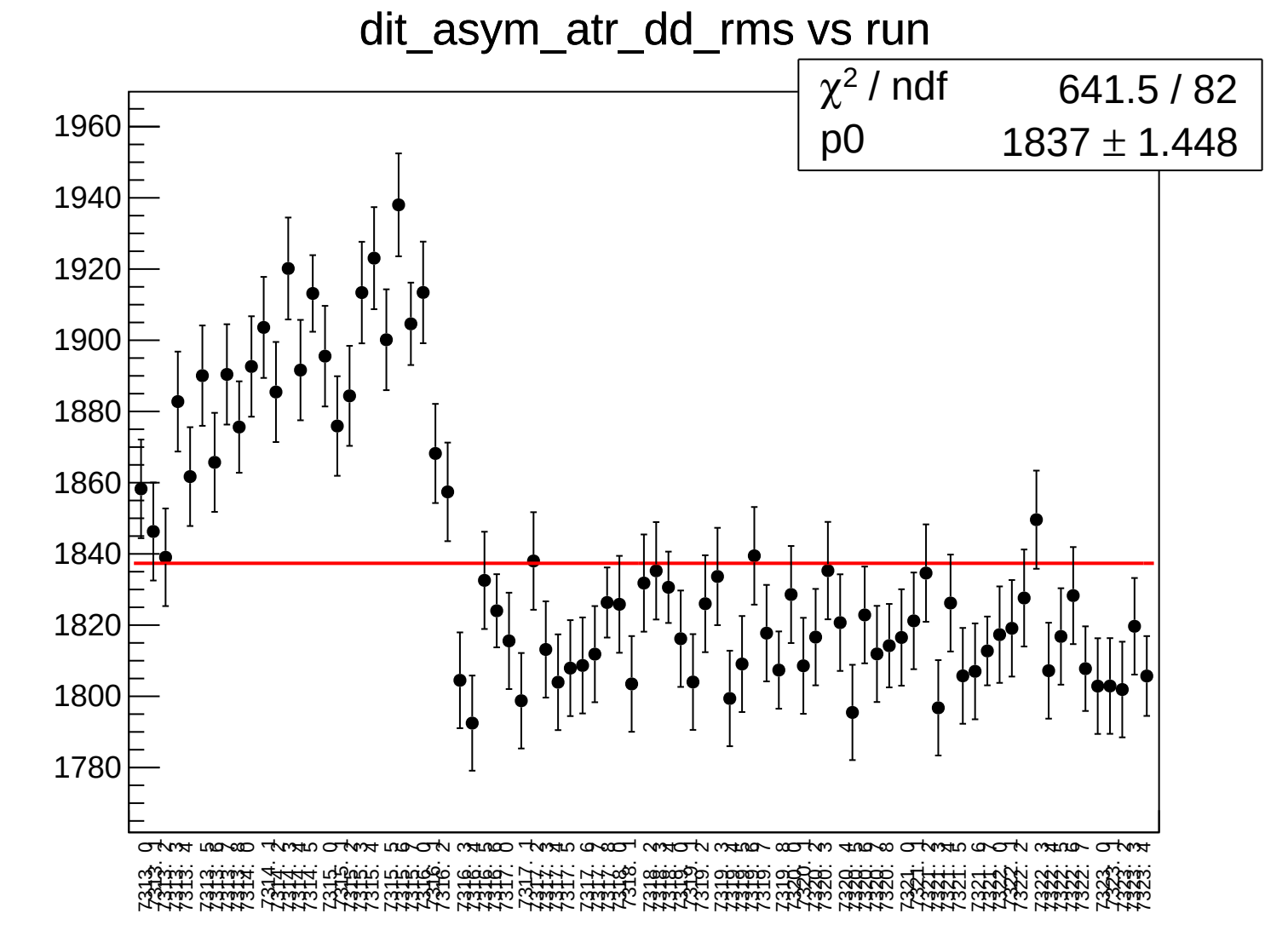

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.57 / 82
p0 −8386 ± 7125
pull
Entries 83
Mean 1409
Std Dev 0

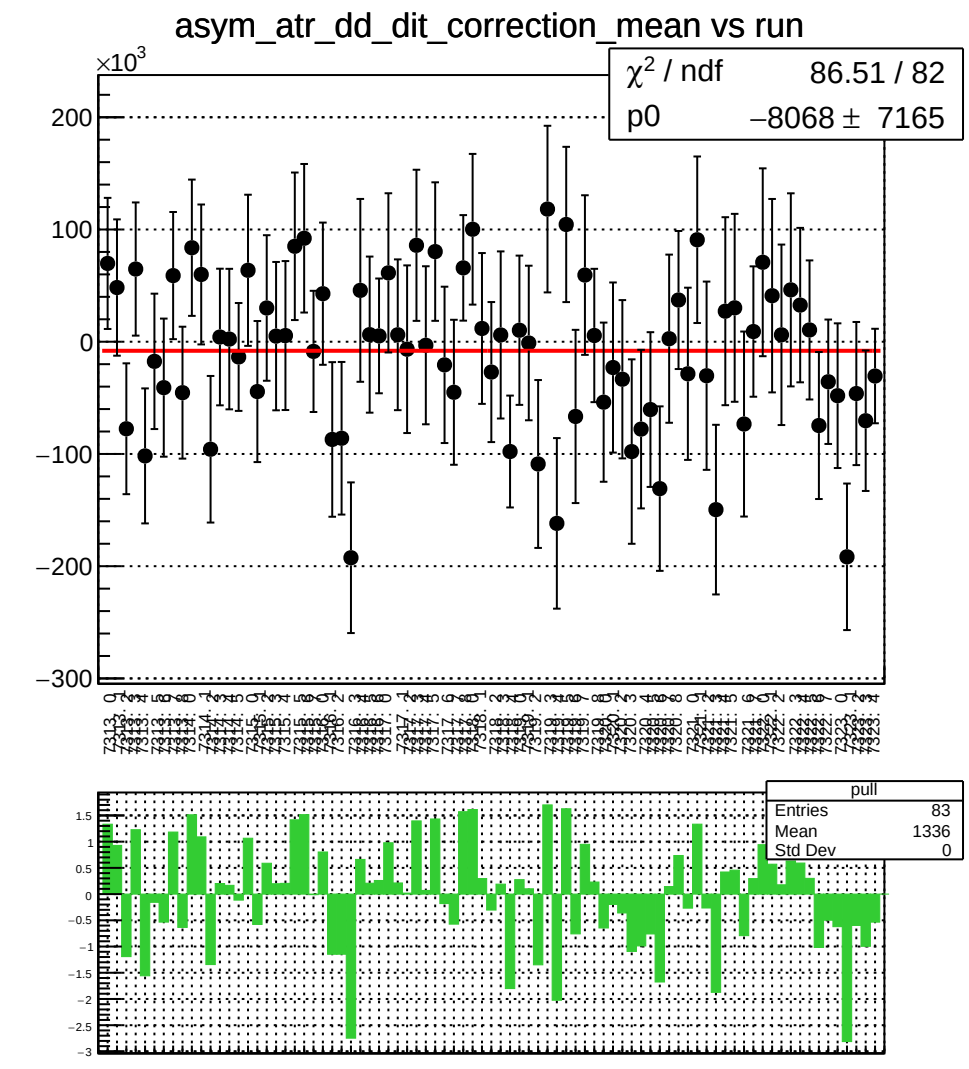

pull1D
Entries 83
Mean −0.003617
Std Dev 1.015

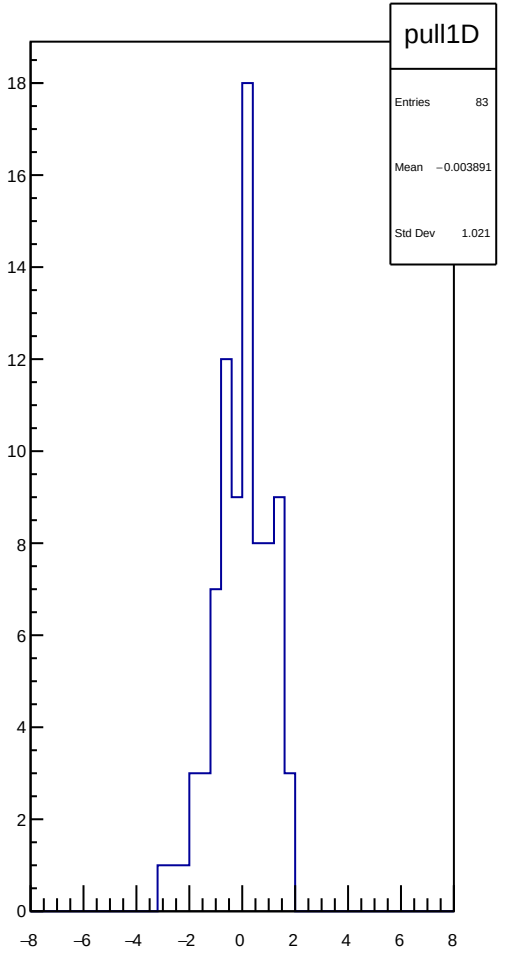

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.774e+04 / 82
p0 6360 ± 5.038
8000
7500
7000
6500
6000
5500
5000
4500

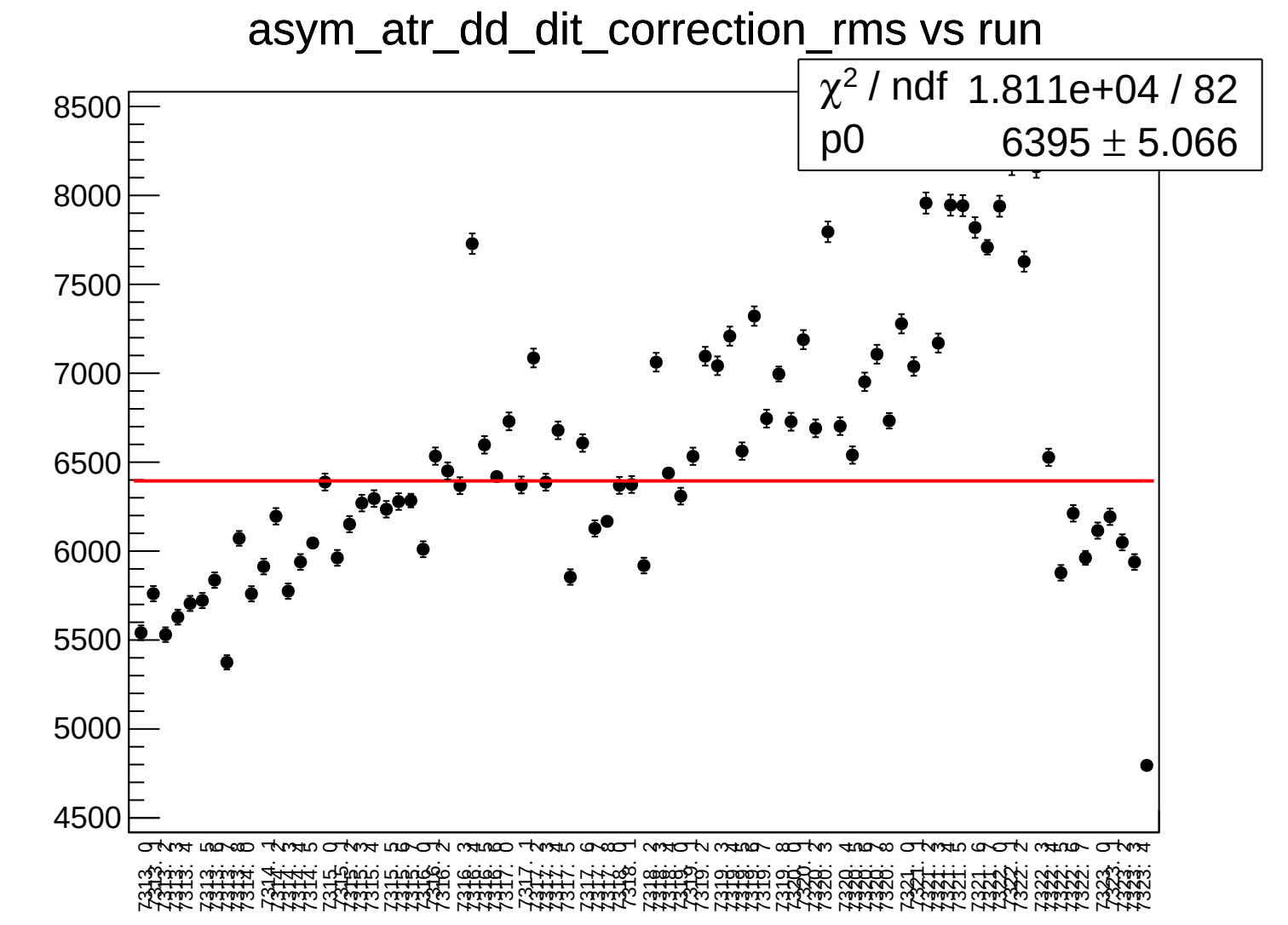

dit_asym_atr_dd_mean vs run
χ² / ndf 77.27 / 82
p0 −2443 ± 2047
pull
Entries 83
Mean 296.2
Std Dev 0

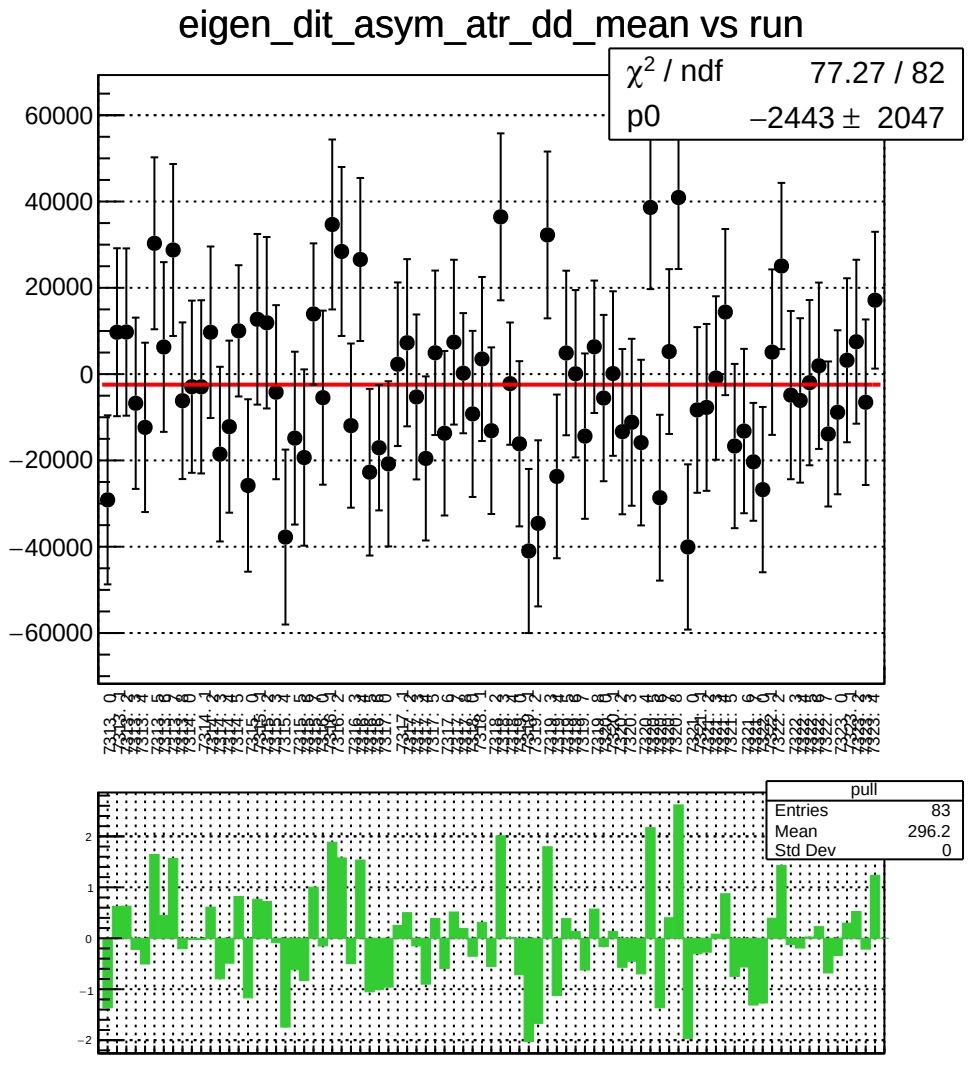

pull1D
Entries 83
Mean −0.004214
Std Dev 0.9649

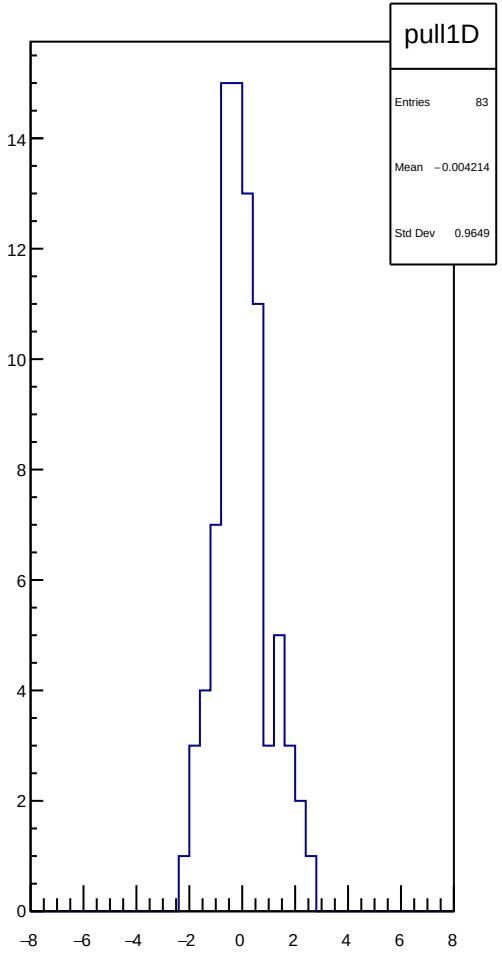

dit_asym_atr_dd_rms vs run
χ² / ndf 641.5 / 82
p0 1837 ± 1.448
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

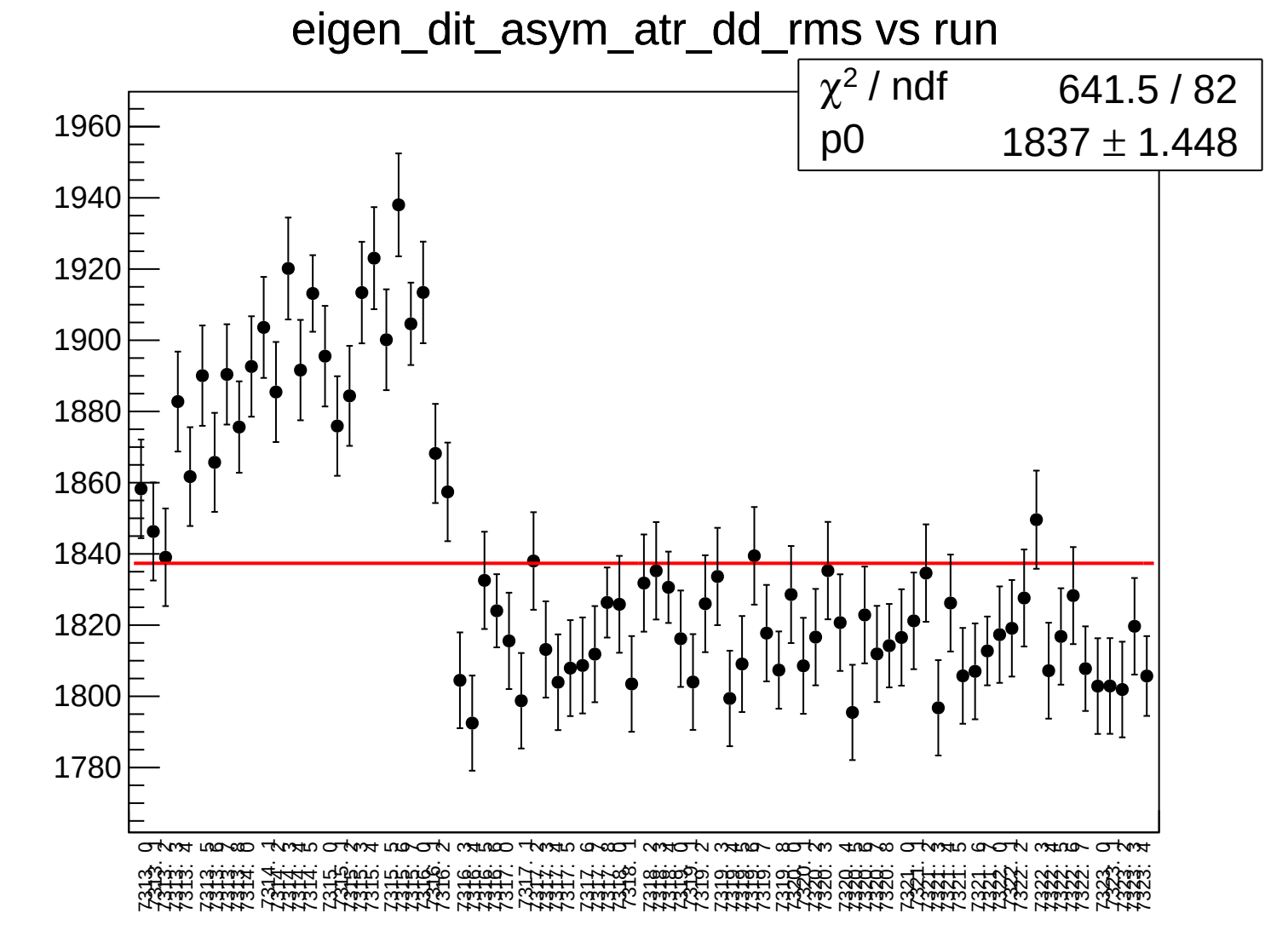

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.51 / 82
p0 −8068 ± 7165
pull
Entries 83
Mean 1336
Std Dev 0

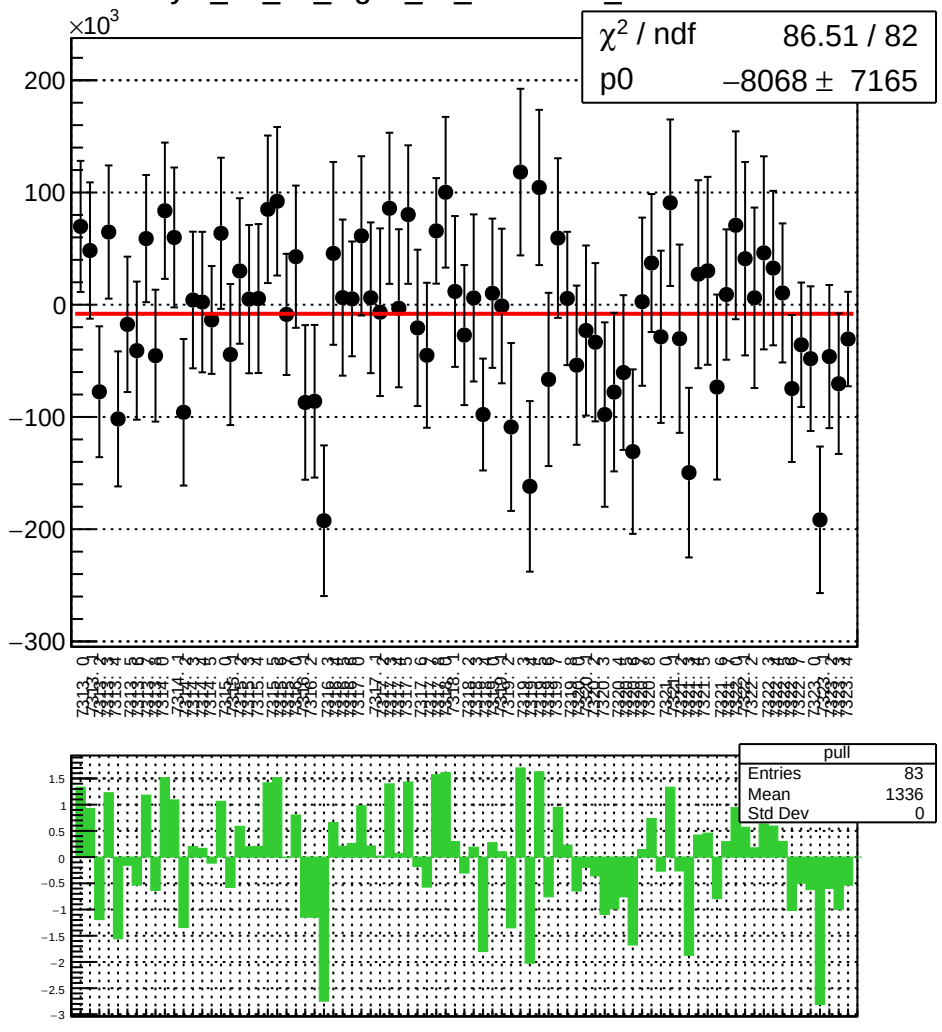

pull1D
Entries 83
Mean −0.003891
Std Dev 1.021

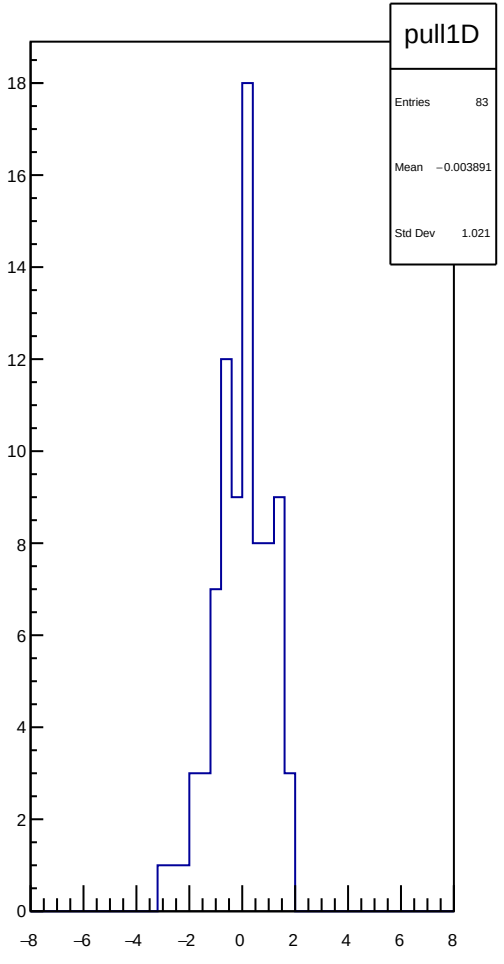

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.811e+04 / 82
p0 6395 ± 5.066
8500
8000
7500
7000
6500
6000
5500
5000
4500

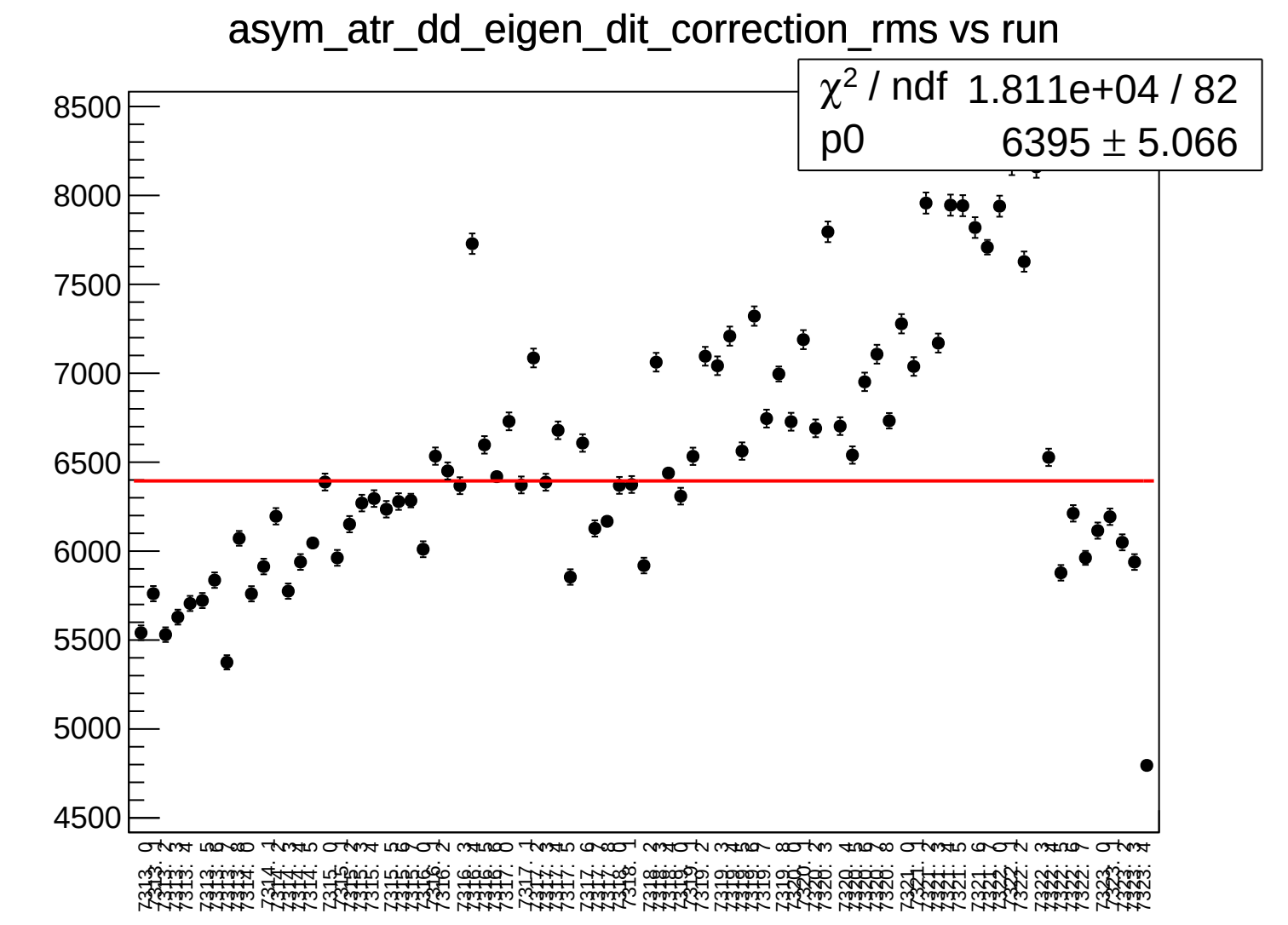

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 77.27 / 82
p0 −2443 ± 2047
pull
Entries 83
Mean 296.2
Std Dev 0

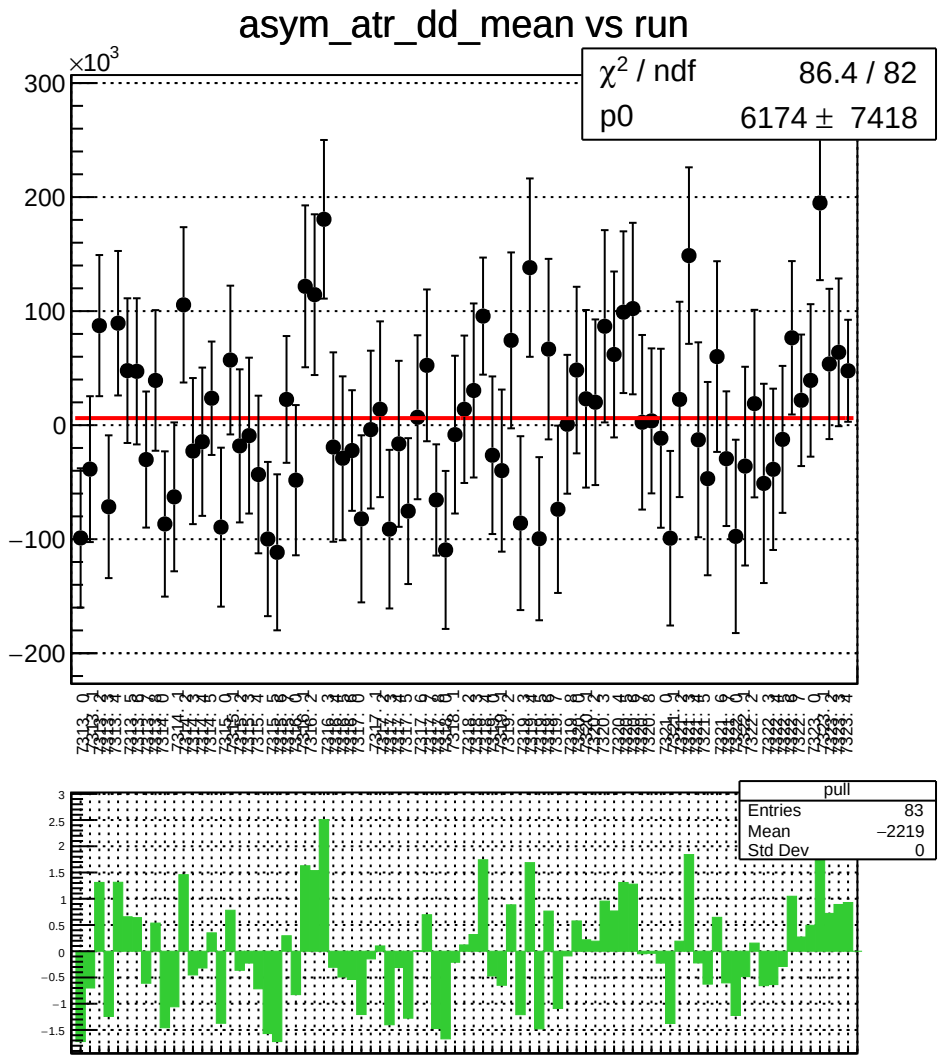

pull1D
Entries 83
Mean −0.004214
Std Dev 0.9649

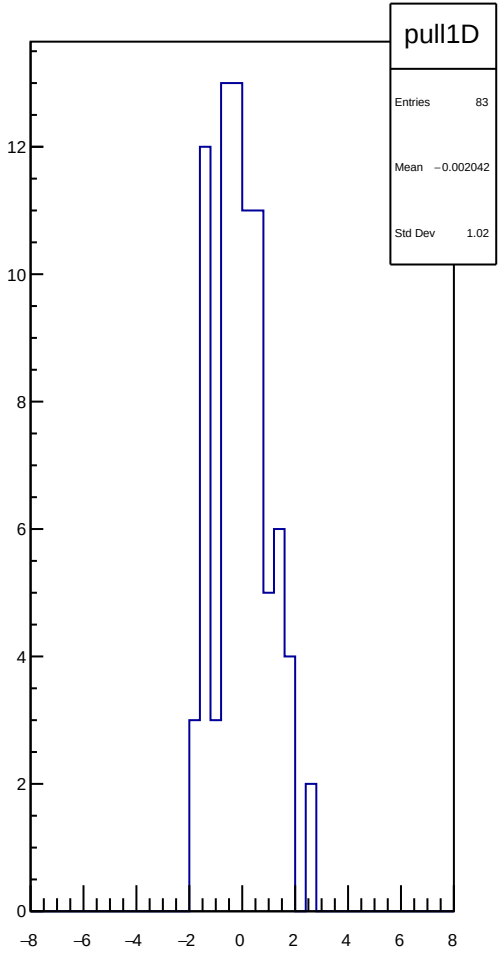

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 641.5 / 82
p0 1837 ± 1.448
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

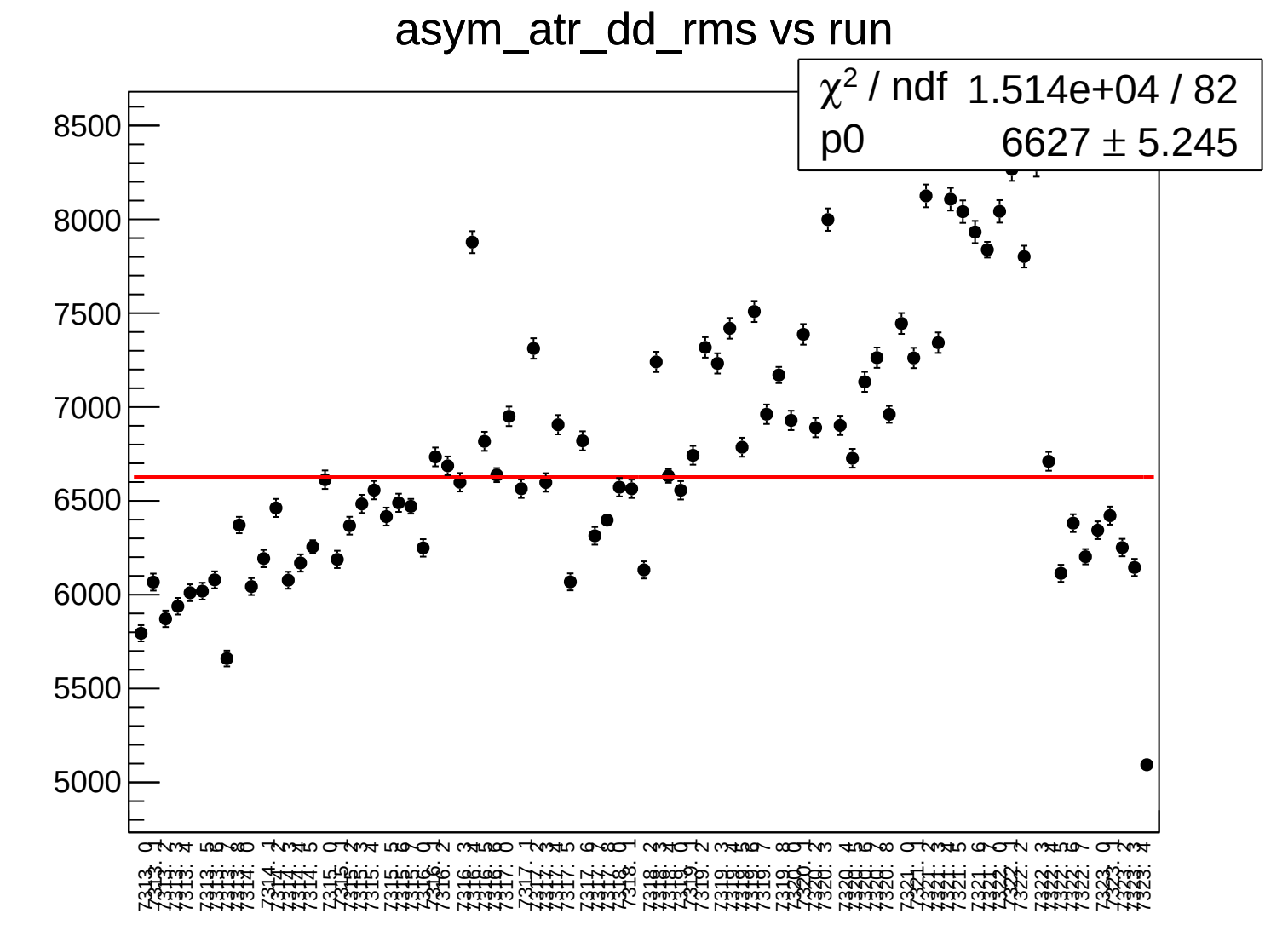

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.51 / 82
p0 −8068 ± 7165
pull
Entries 83
Mean 1336
Std Dev 0

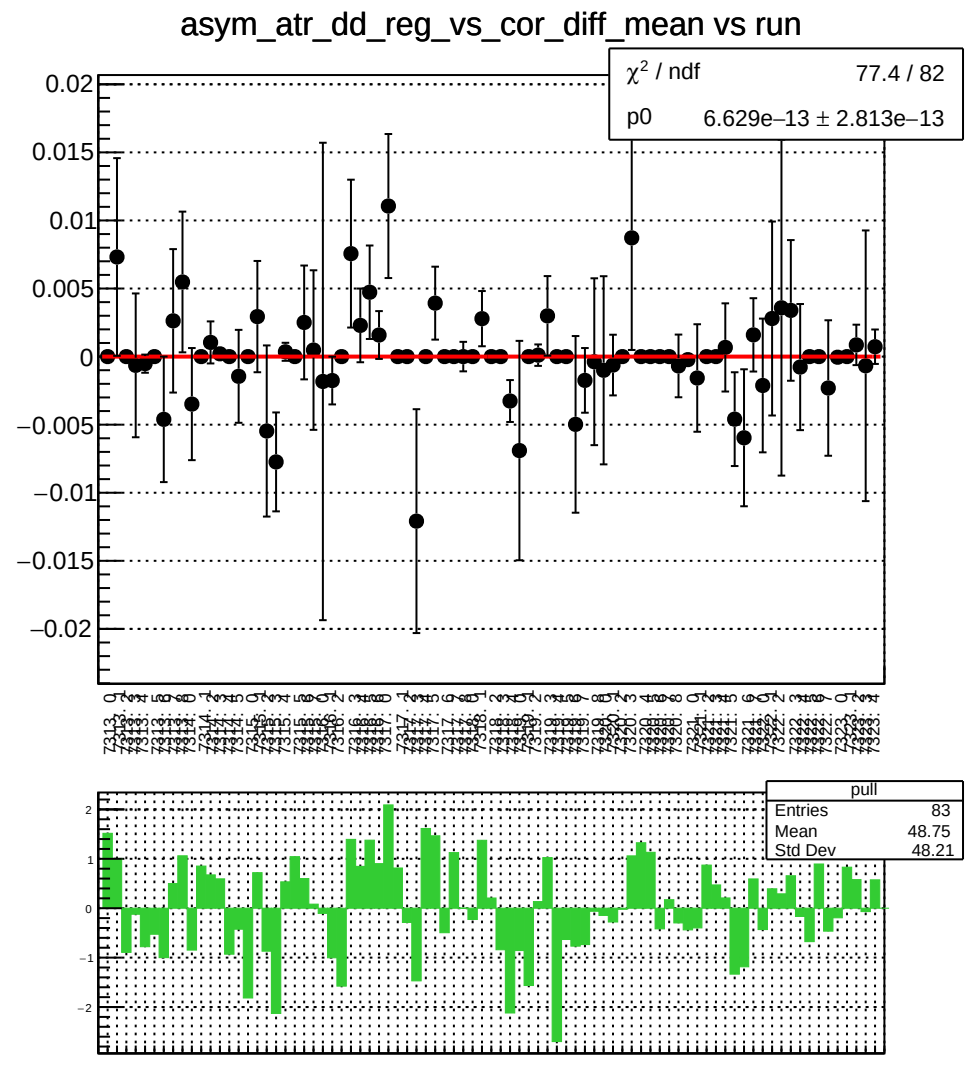

pull1D
Entries 83
Mean −0.003891
Std Dev 1.021

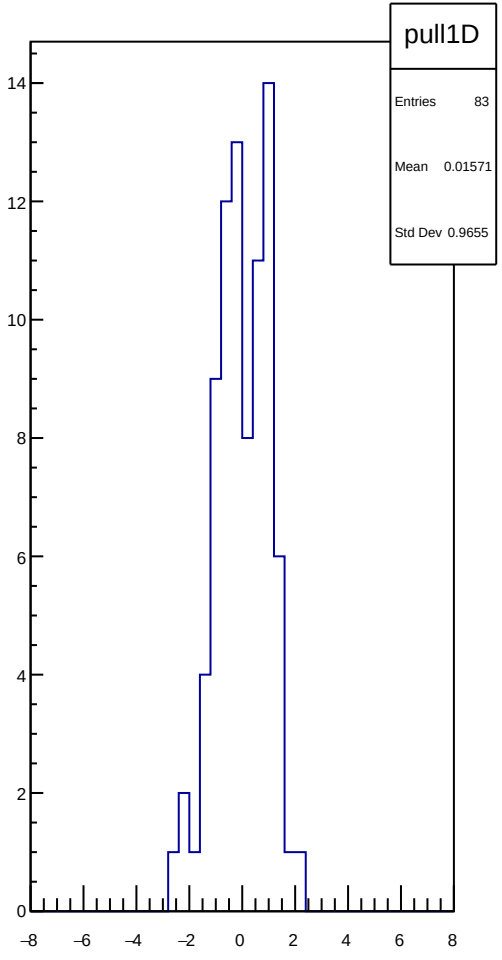

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.811e+04 / 82
p0 6395 ± 5.066
8500
8000
7500
7000
6500
6000
5500
5000
4500

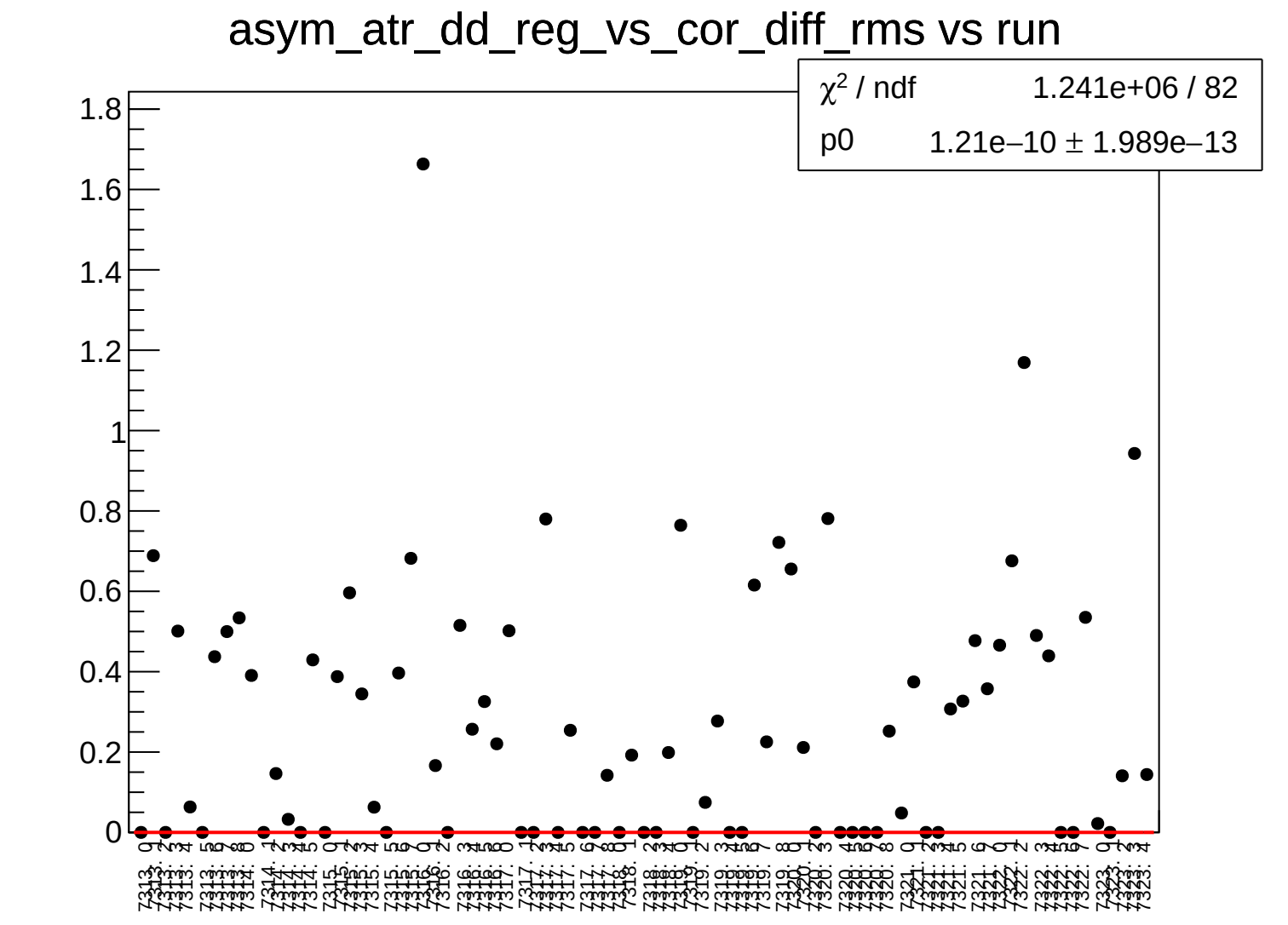

asym_atr_dd_mean vs run
×10^3
χ² / ndf 86.4 / 82
p0 6174 ± 7418
pull
Entries 83
Mean −2219
Std Dev 0

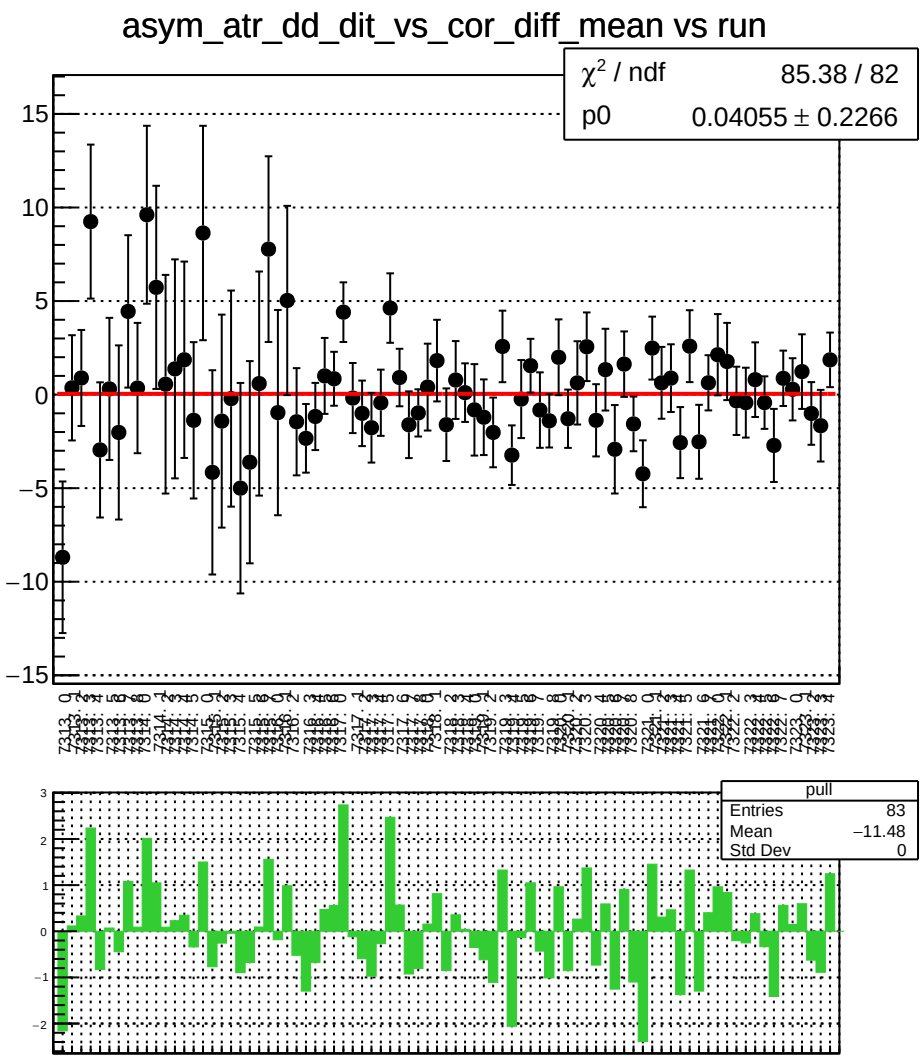

pull1D
Entries 83
Mean −0.002042
Std Dev 1.02

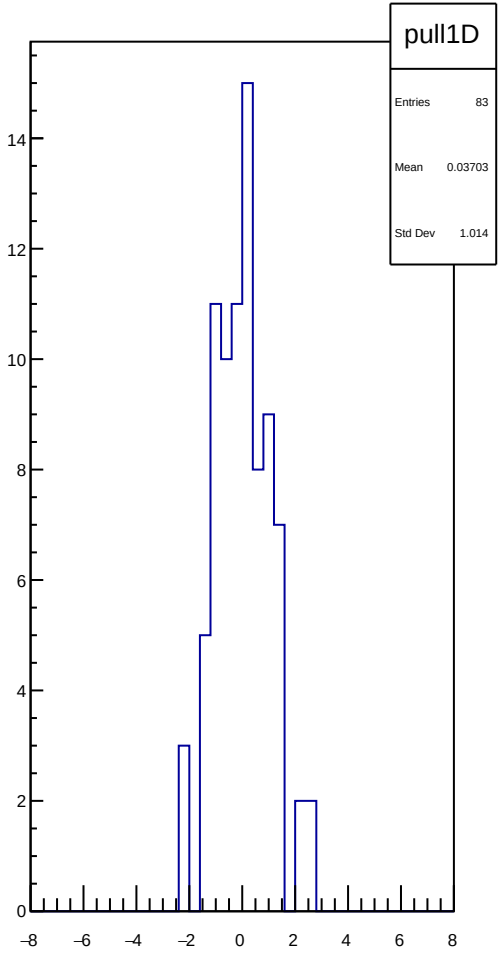

asym_atr_dd_rms vs run
χ² / ndf 1.514e+04 / 82
p0 6627 ± 5.245
8500
8000
7500
7000
6500
6000
5500
5000

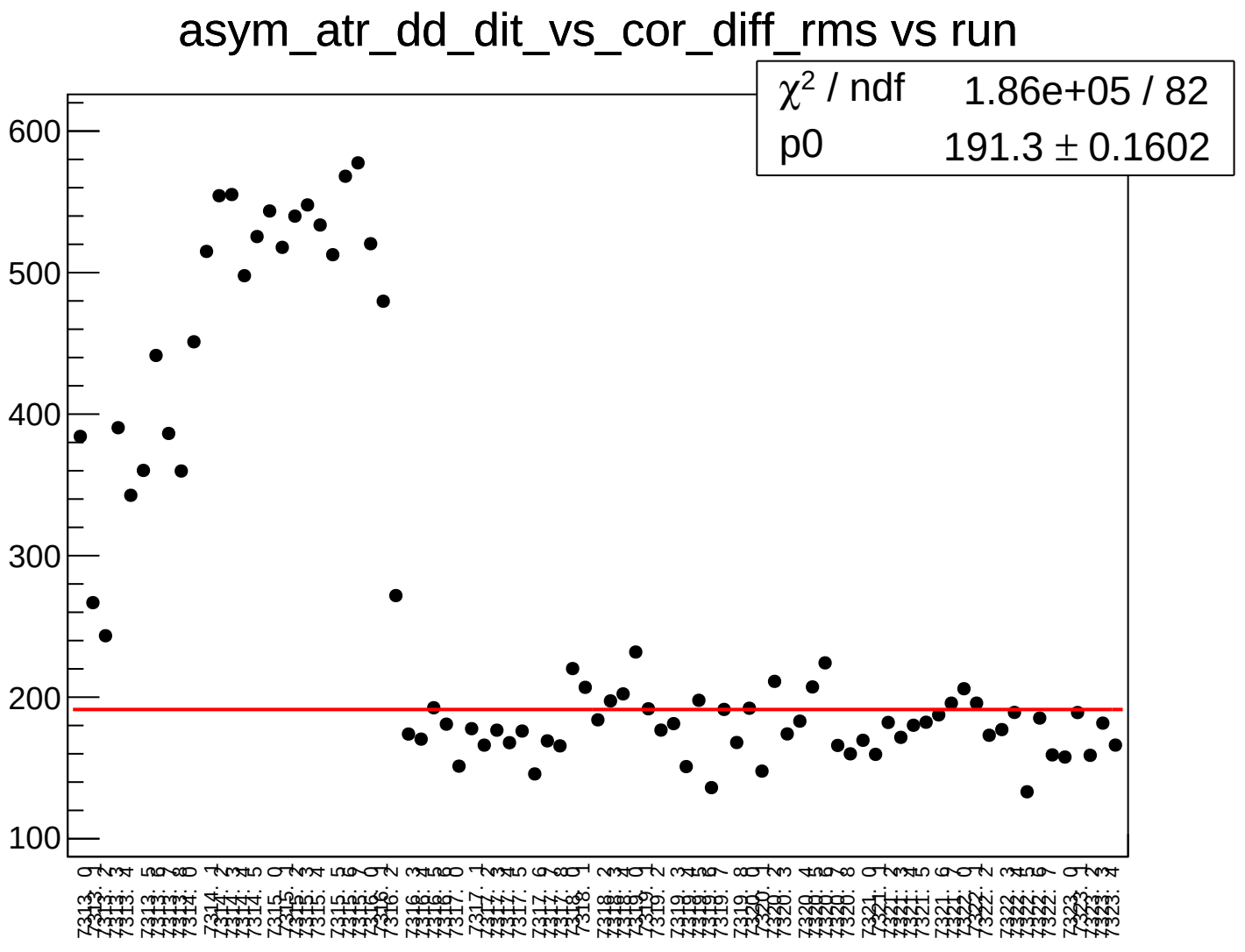

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.4 / 82
p0 6.629e−13 ± 2.813e−13
pull
Entries 83
Mean 48.75
Std Dev 48.21

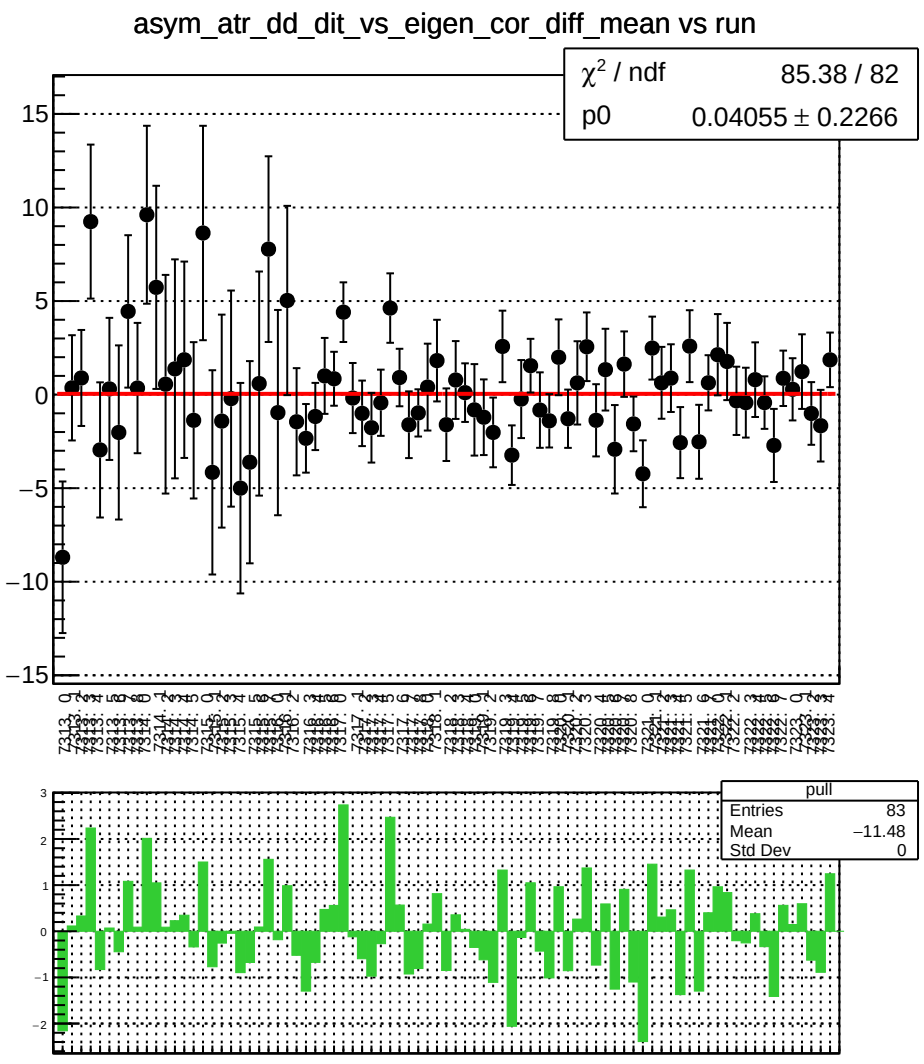

pull1D
Entries 83
Mean 0.01571
Std Dev 0.9655

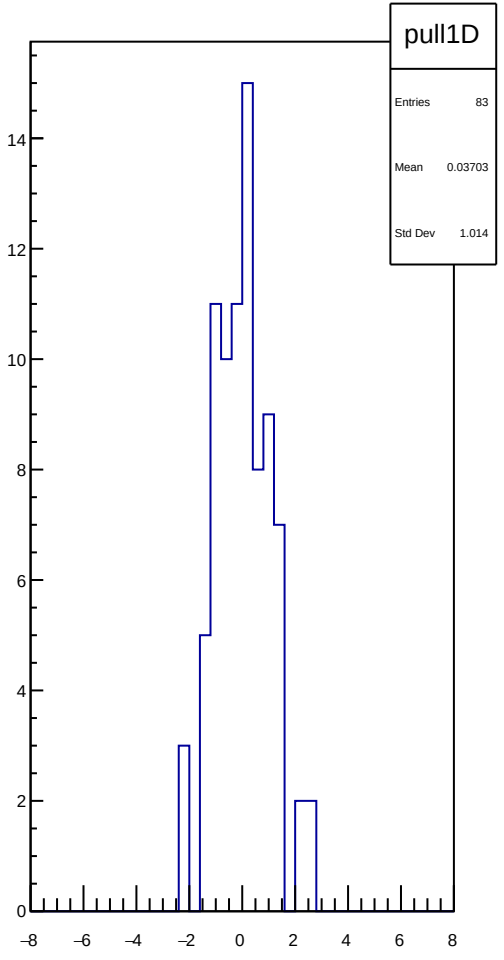

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.241e+06 / 82
p0 1.21e−10 ± 1.989e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

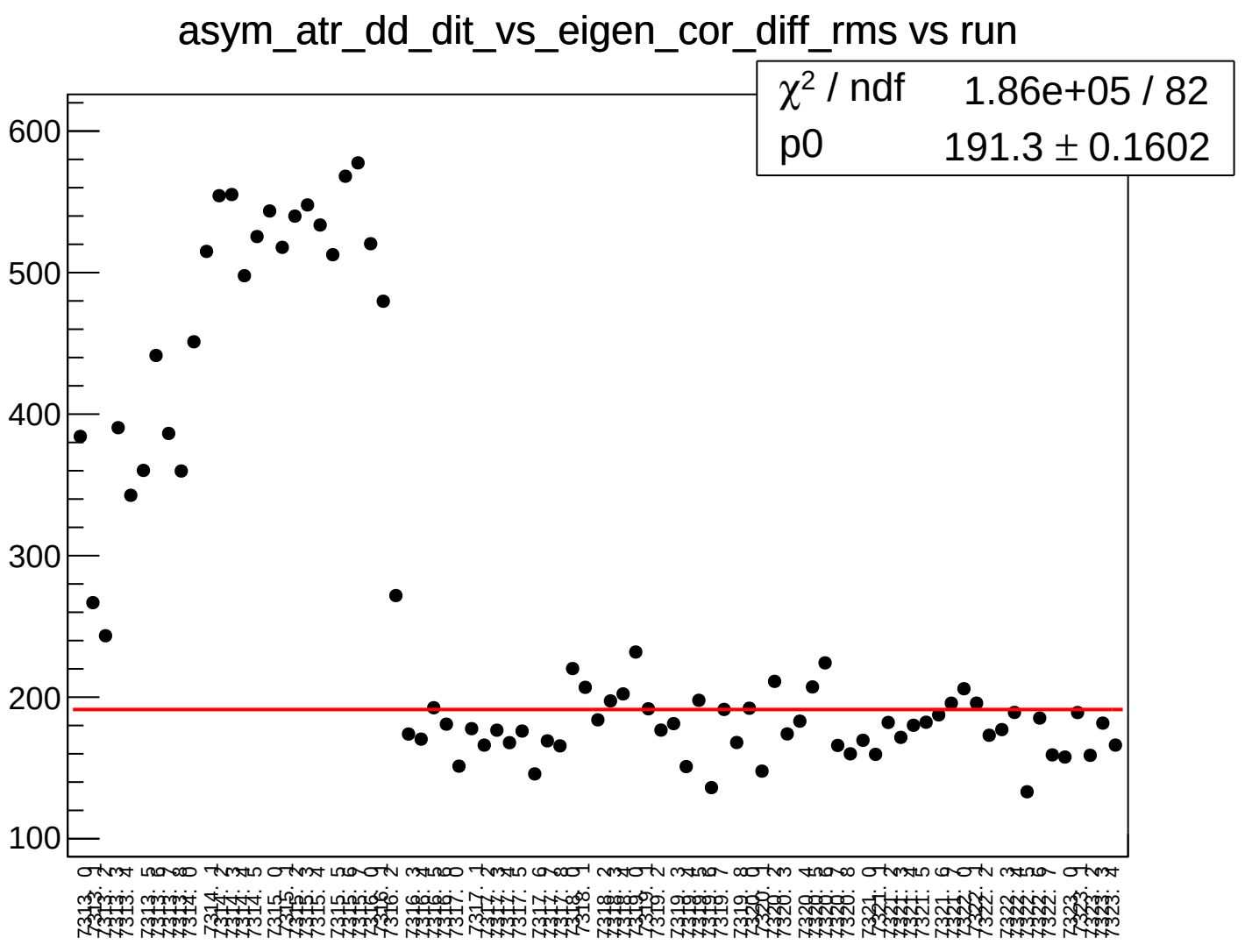

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.38 / 82
p0 0.04055 ± 0.2266
pull
Entries 83
Mean −11.48
Std Dev 0

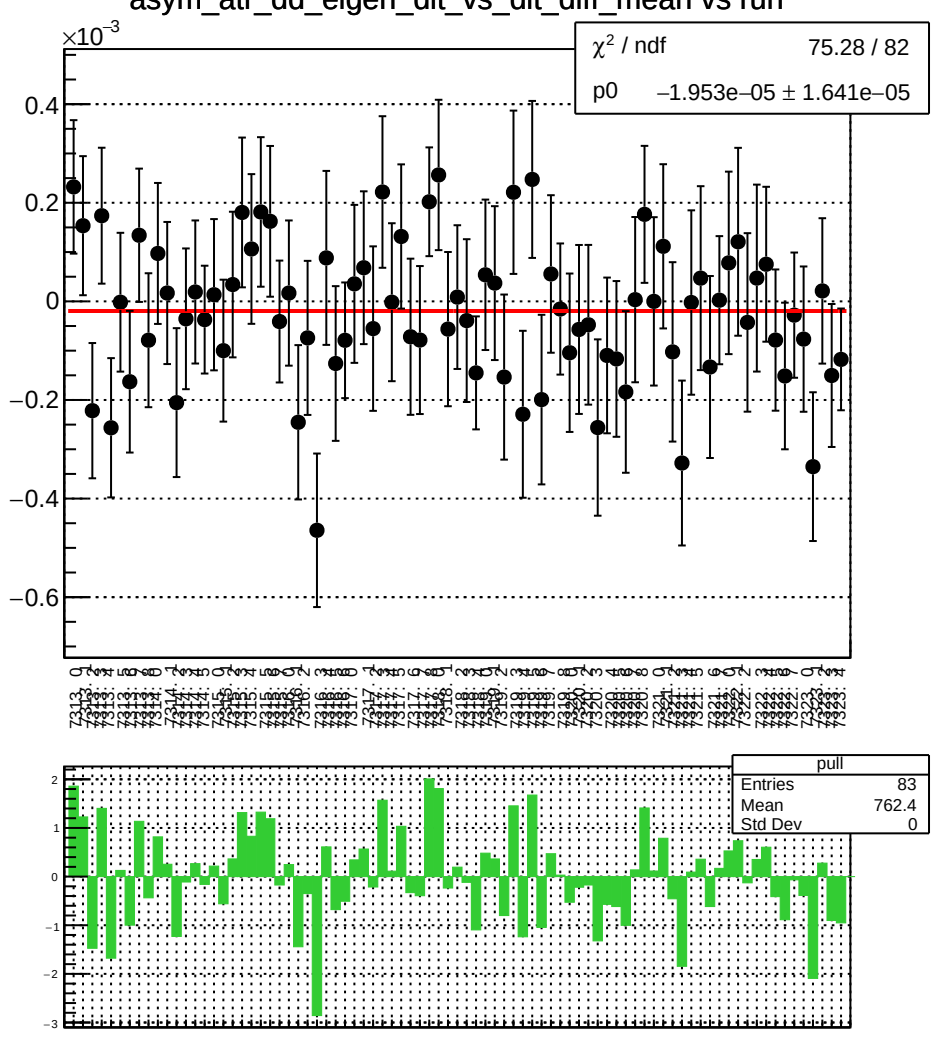

pull1D
Entries 83
Mean 0.03703
Std Dev 1.014

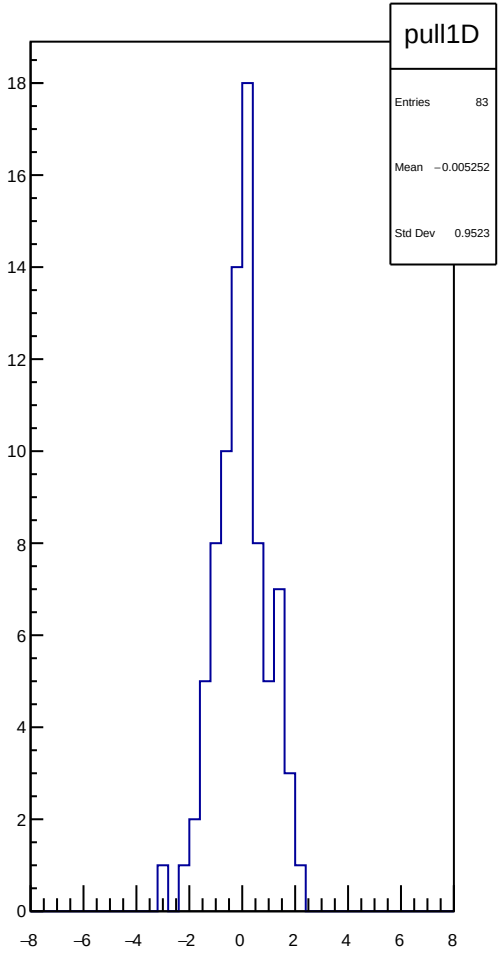

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.86e+05 / 82
p0 191.3 ± 0.1602
600
500
400
300
200
100

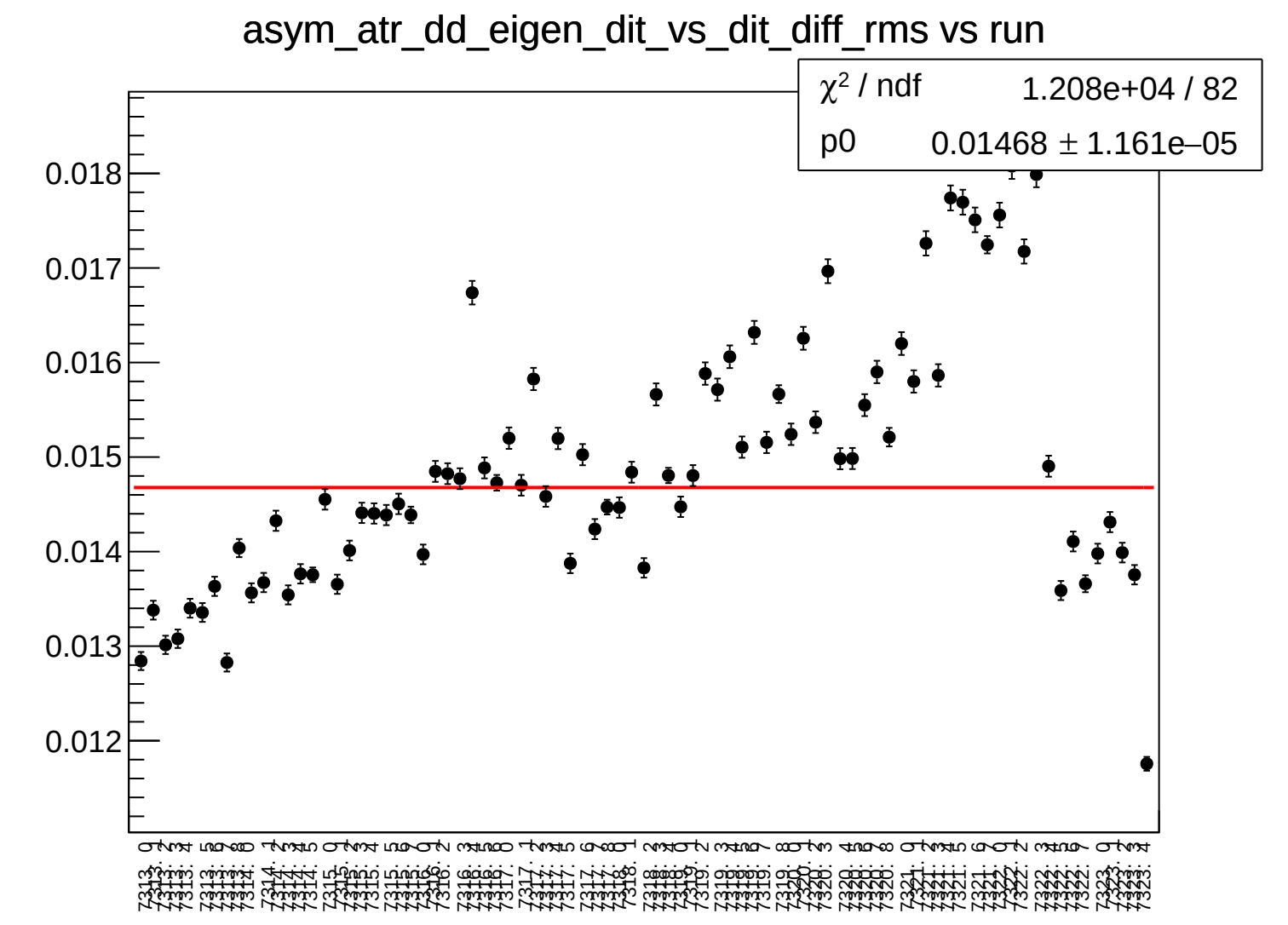

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.38 / 82
p0 0.04055 ± 0.2266
pull
Entries 83
Mean −11.48
Std Dev 0

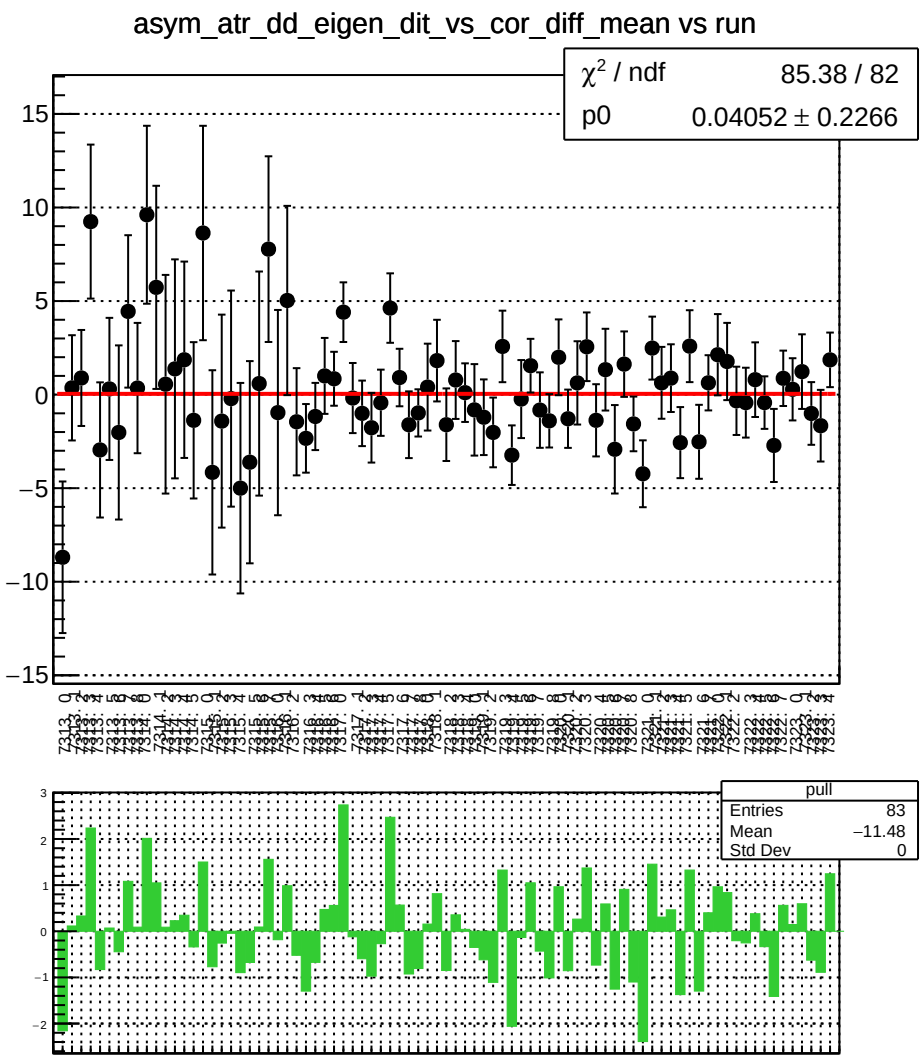

pull1D
Entries 83
Mean 0.03703
Std Dev 1.014

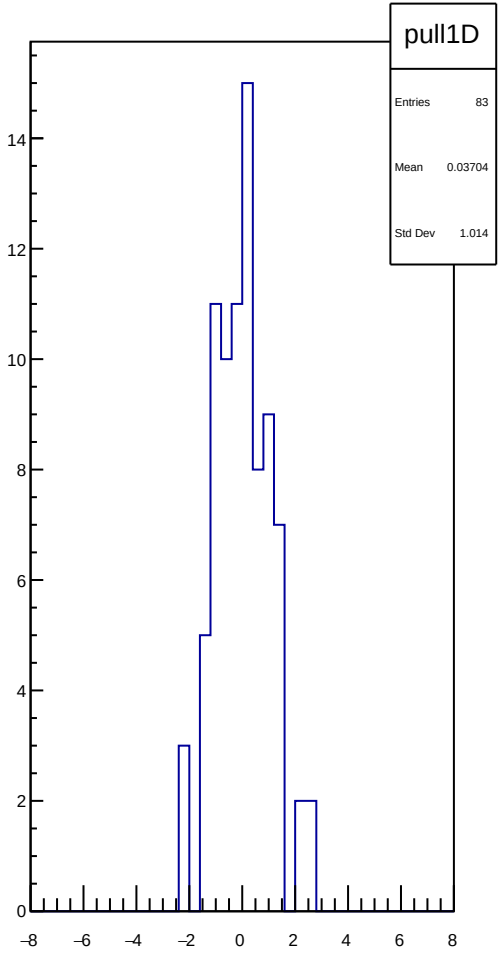

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.86e+05 / 82
p0 191.3 ± 0.1602
600
500
400
300
200
100

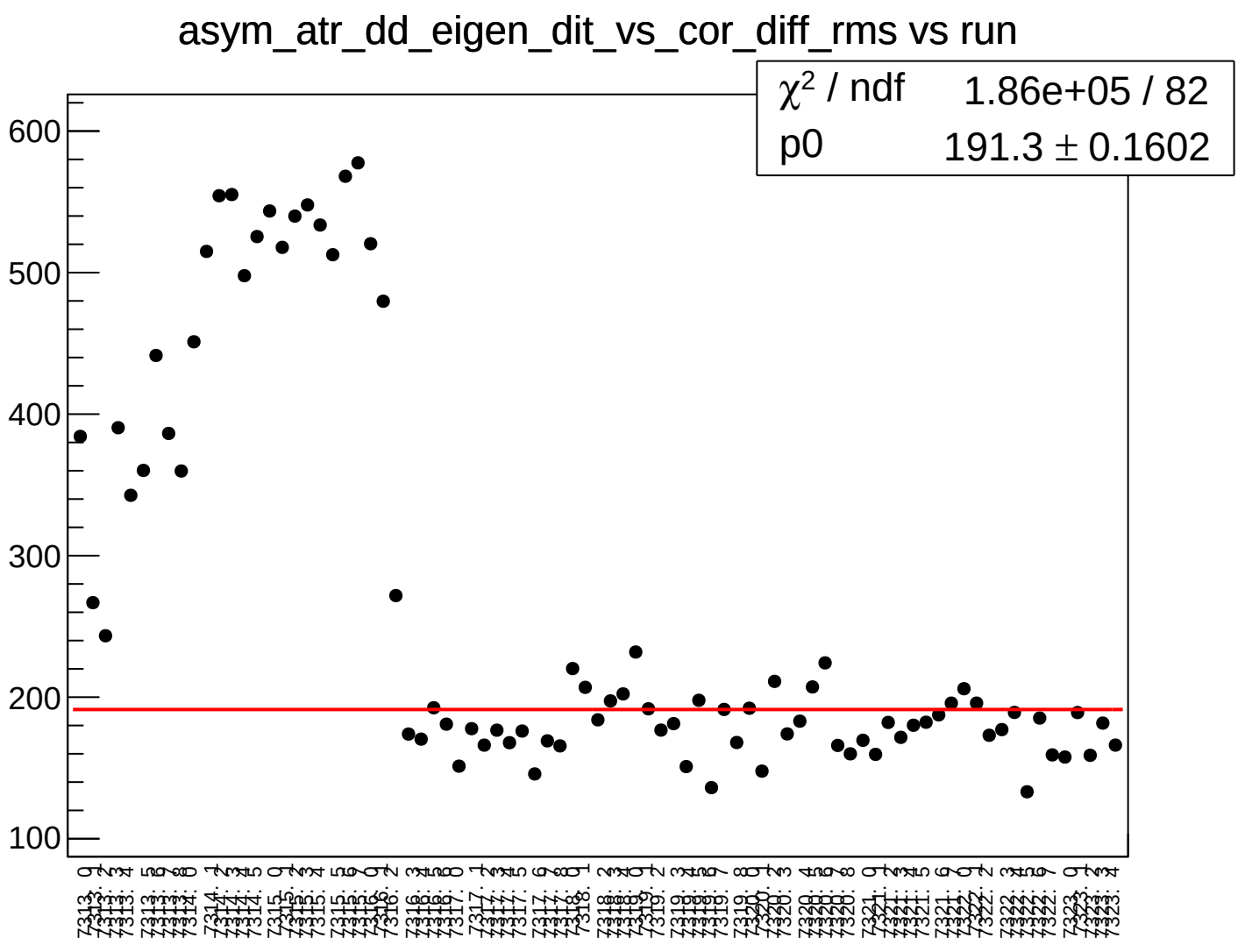

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.28 / 82
p0 −1.953e−05 ± 1.641e−05
pull
Entries 83
Mean 762.4
Std Dev 0

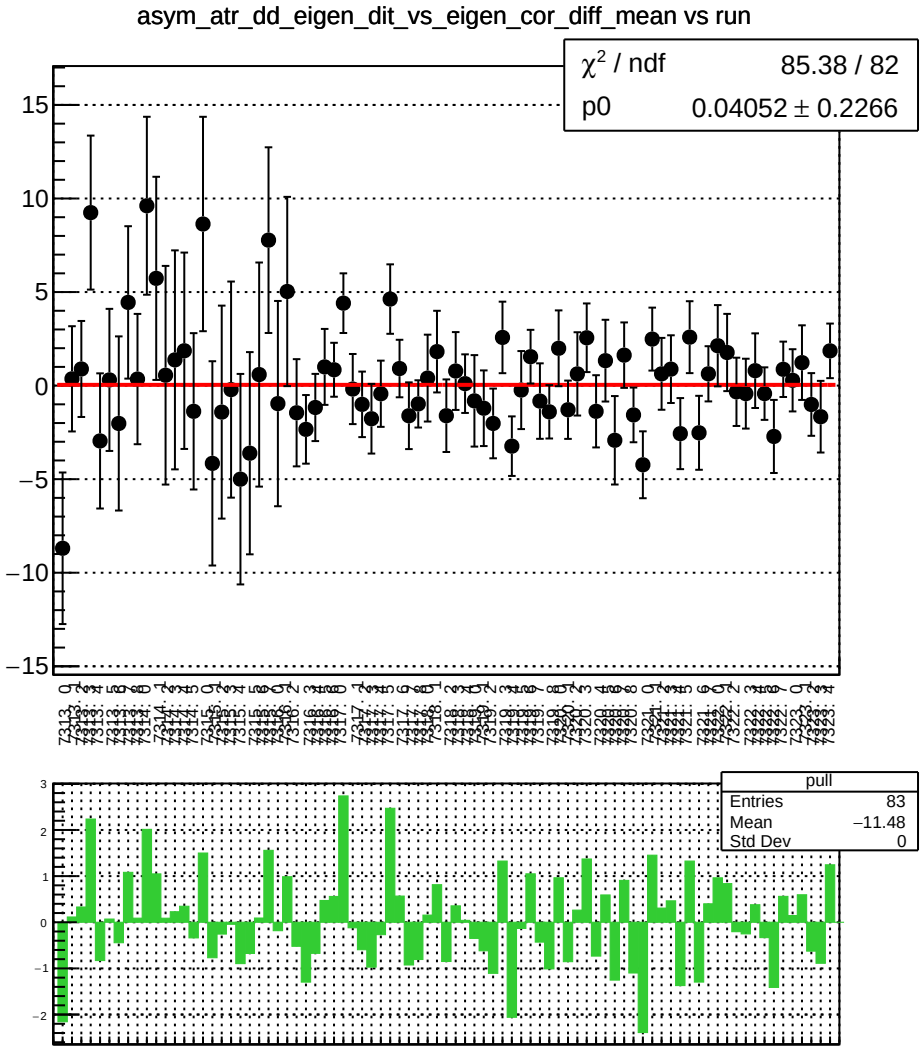

pull1D
Entries 83
Mean −0.005252
Std Dev 0.9523

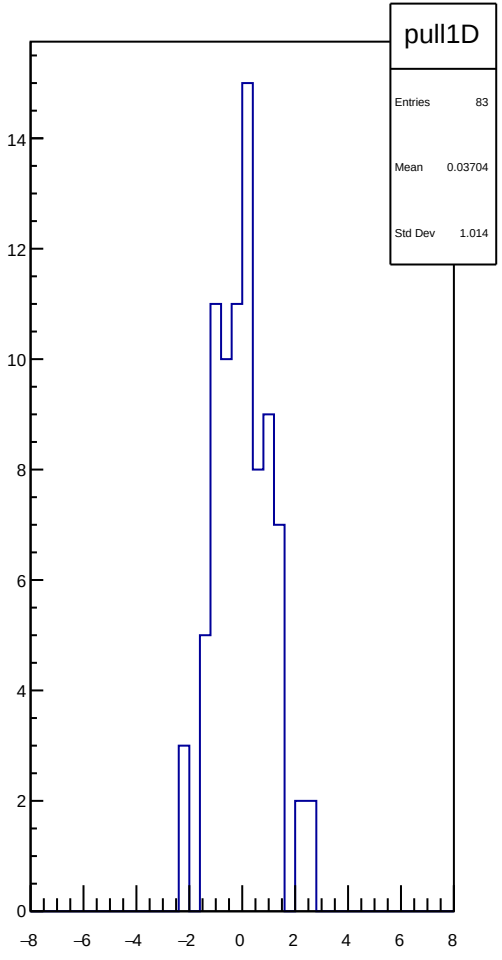

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.208e+04 / 82
p0 0.01468 ± 1.161e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012

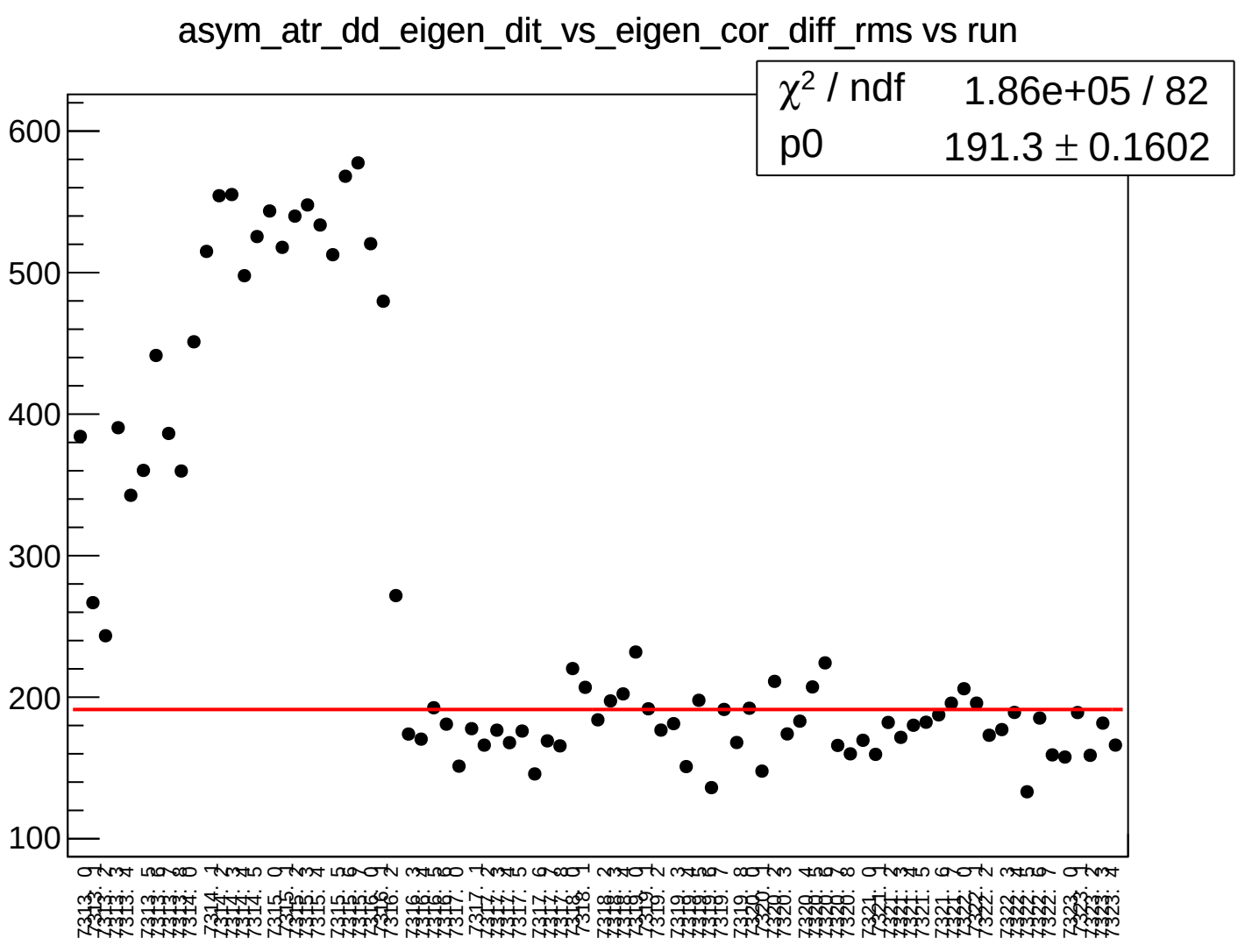

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.38 / 82
p0 0.04052 ± 0.2266
pull
Entries 83
Mean −11.48
Std Dev 0

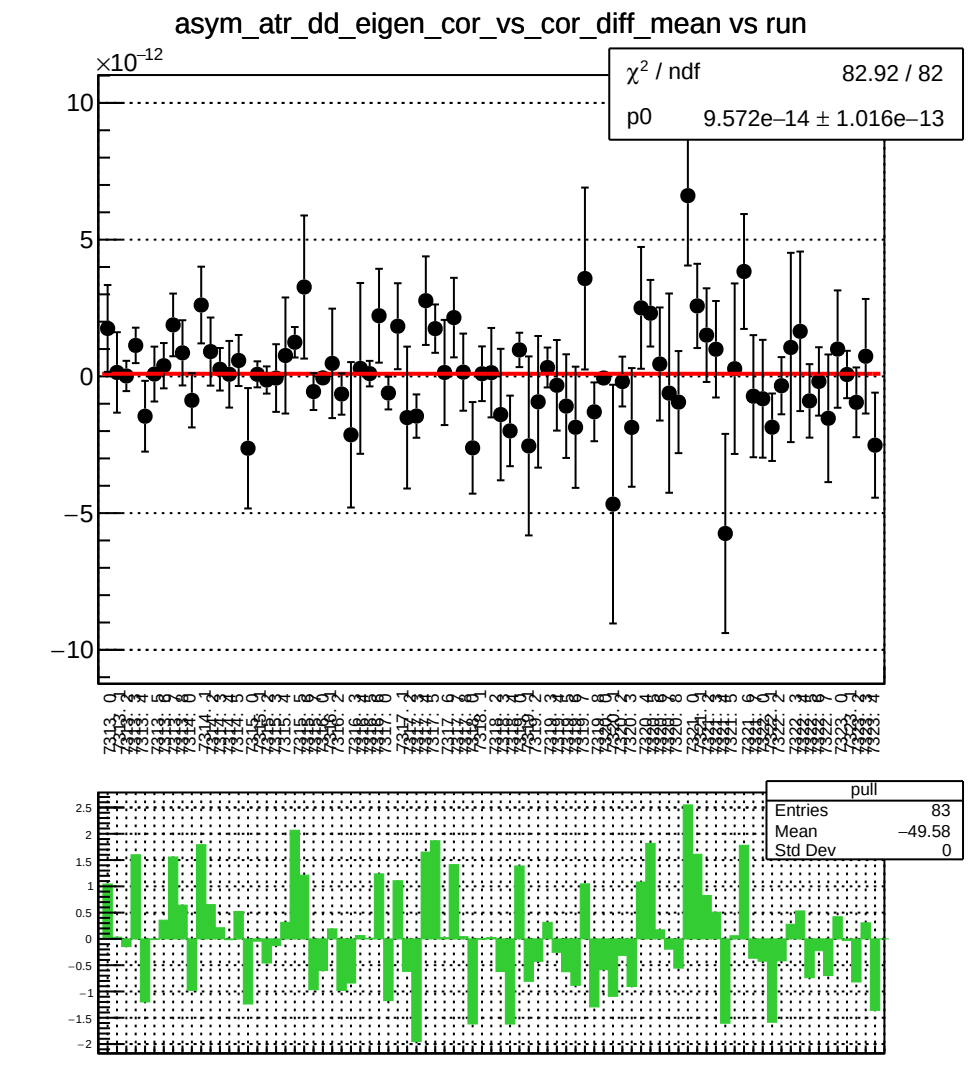

pull1D
Entries 83
Mean 0.03704
Std Dev 1.014

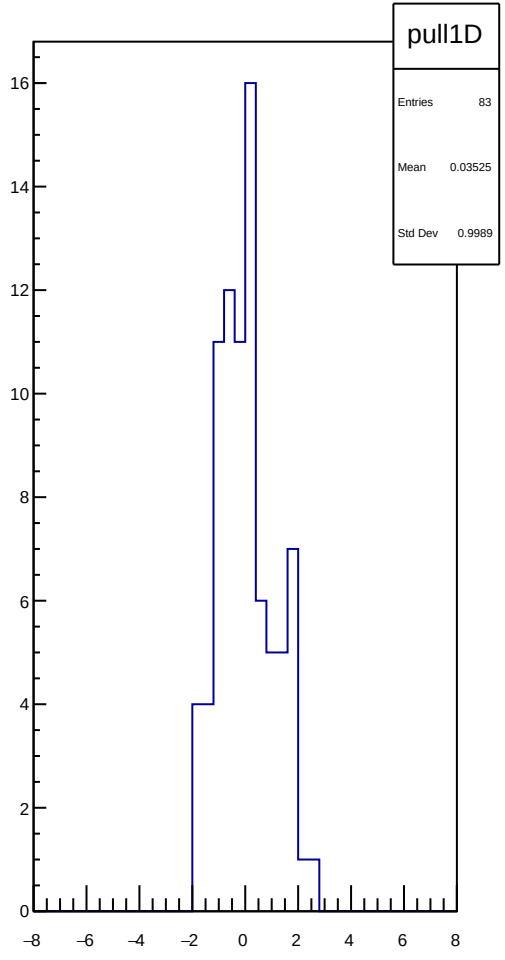

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.86e+05 / 82
p0 191.3 ± 0.1602
600
500
400
300
200
100

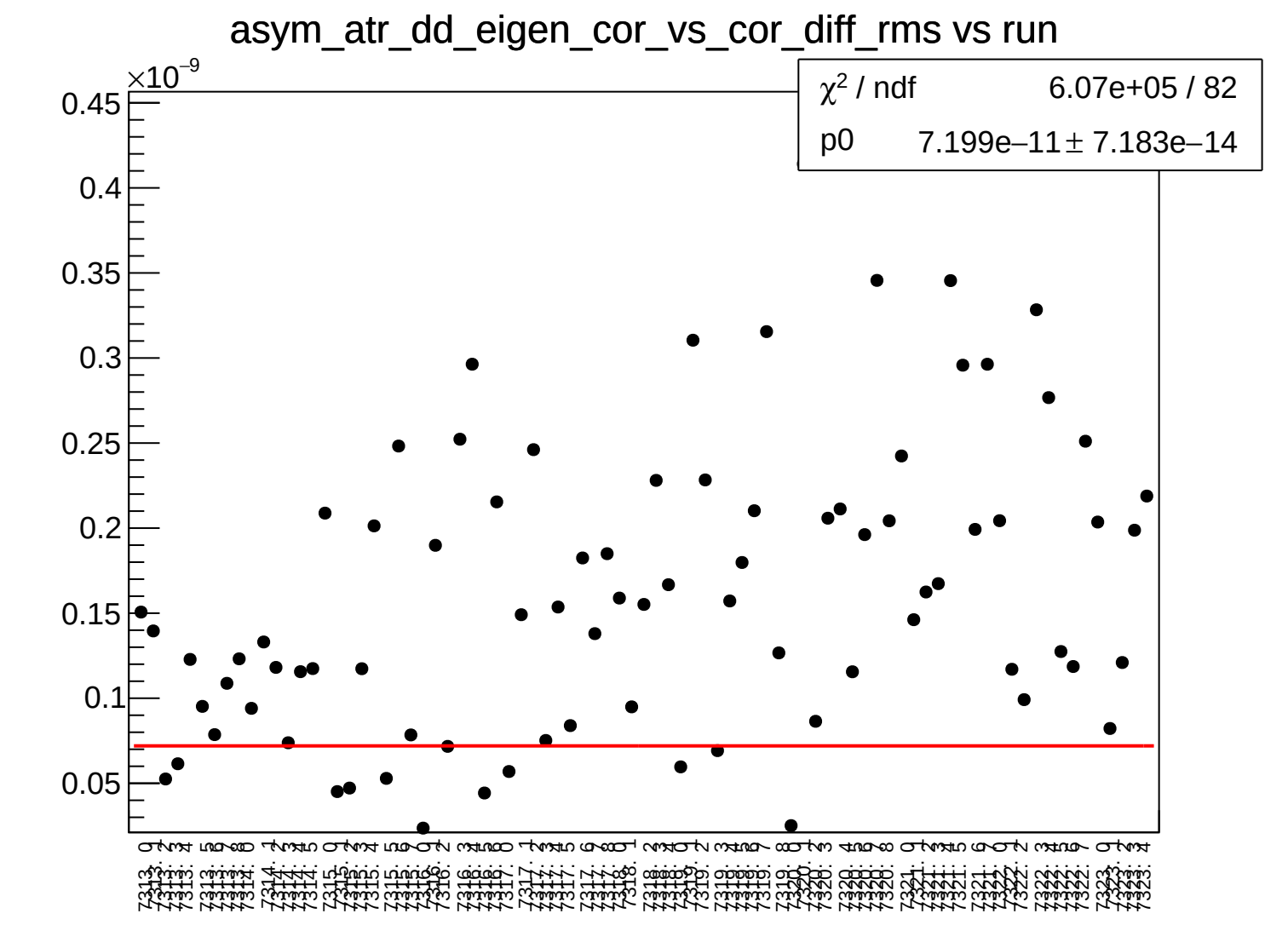

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.38 / 82
p0 0.04052 ± 0.2266
pull
Entries 83
Mean −11.48
Std Dev 0

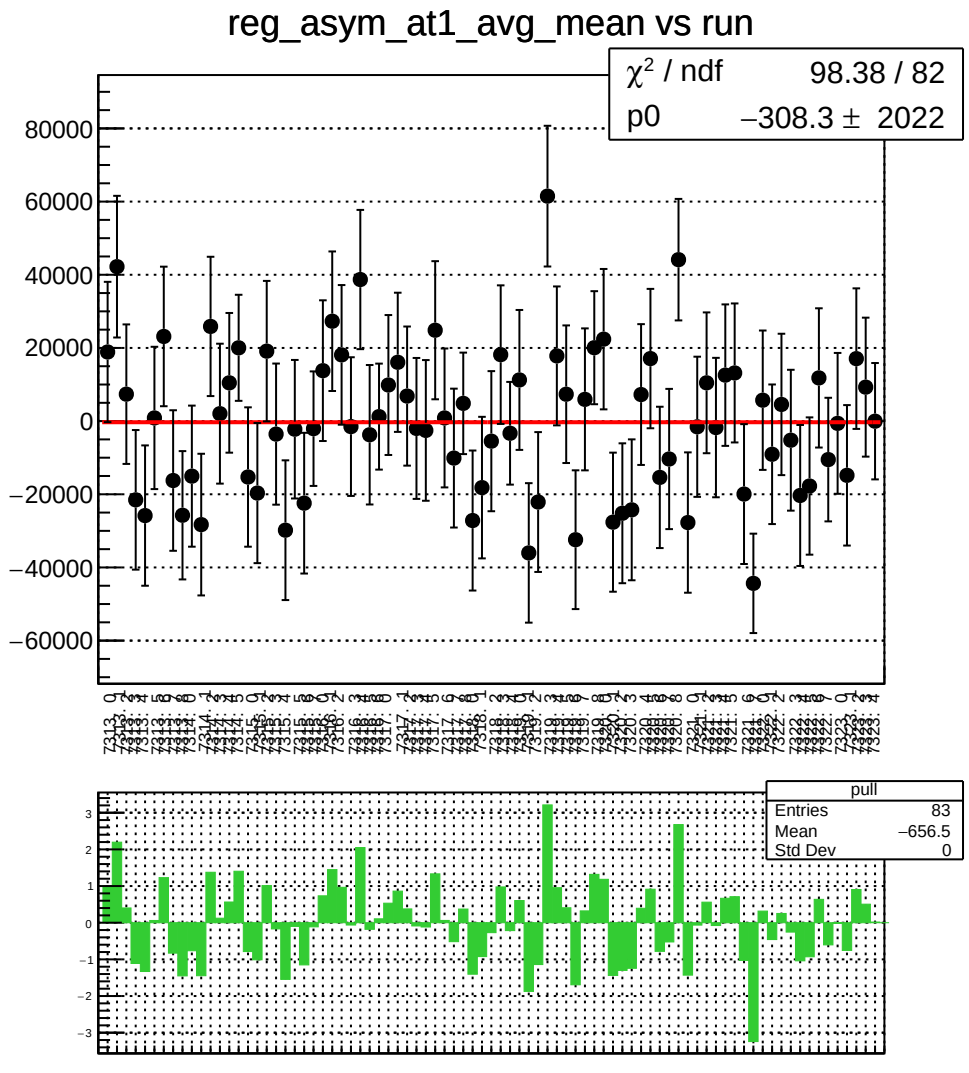

pull1D
Entries 83
Mean 0.03704
Std Dev 1.014

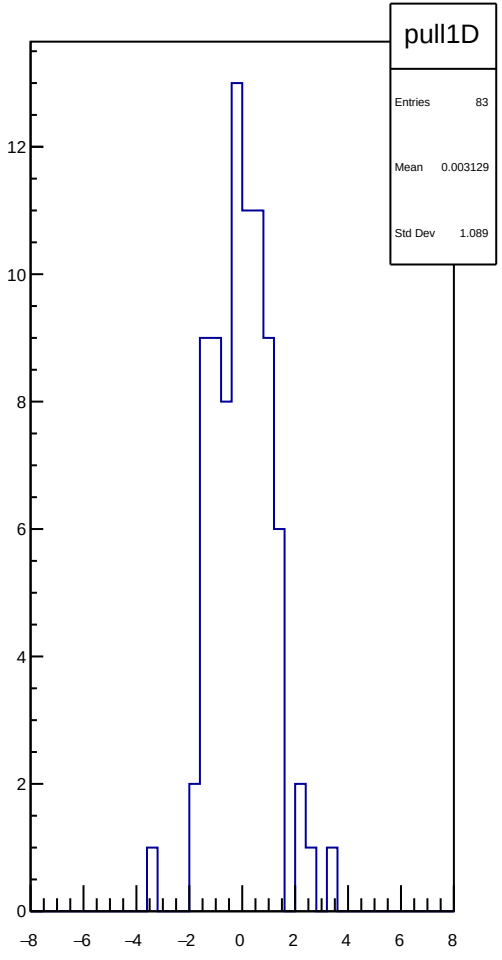

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.86e+05 / 82
p0 191.3 ± 0.1602
600
500
400
300
200
100

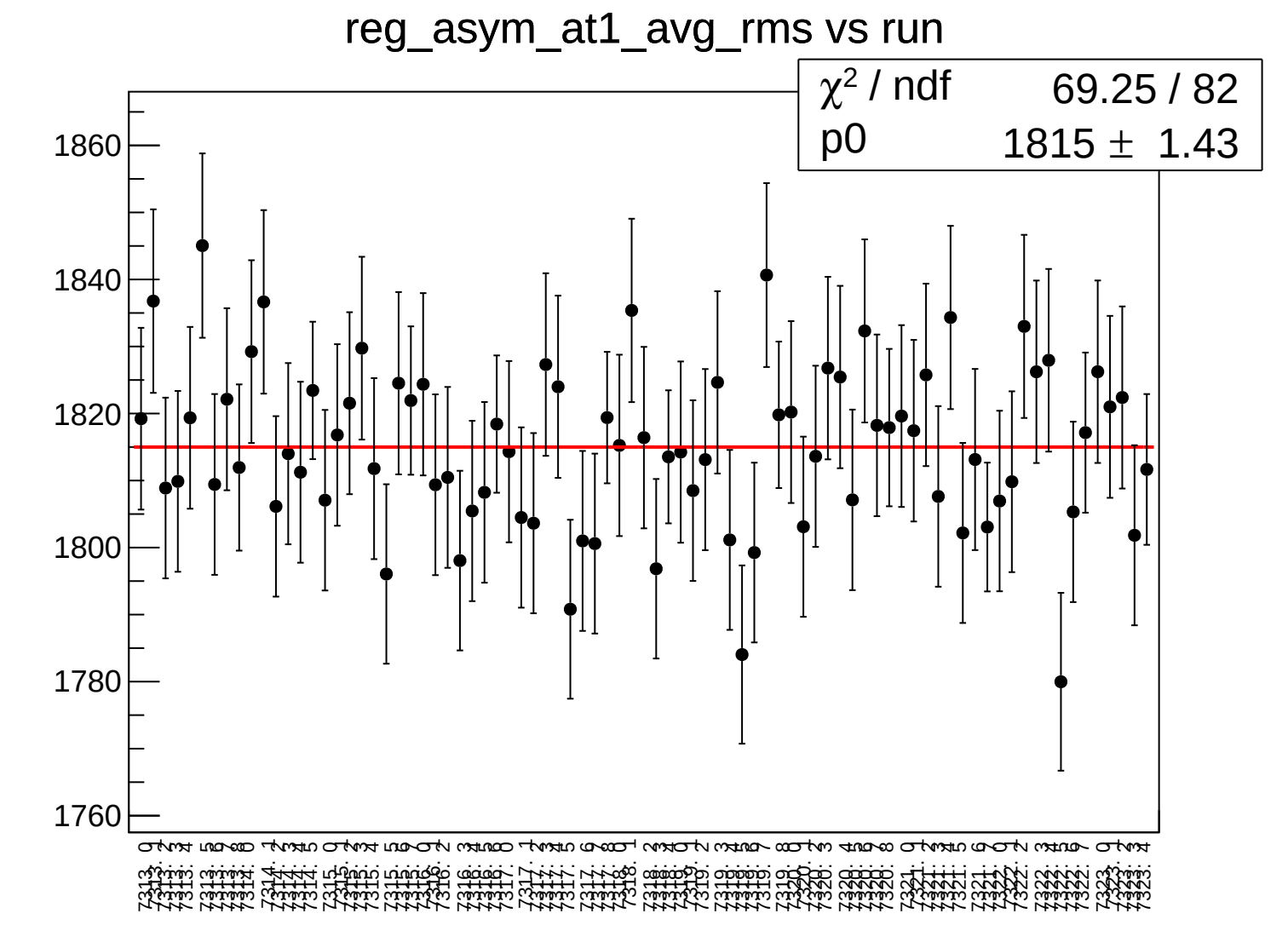

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.92 / 82
p0 9.572e−14 ± 1.016e−13
pull
Entries 83
Mean −49.58
Std Dev 0

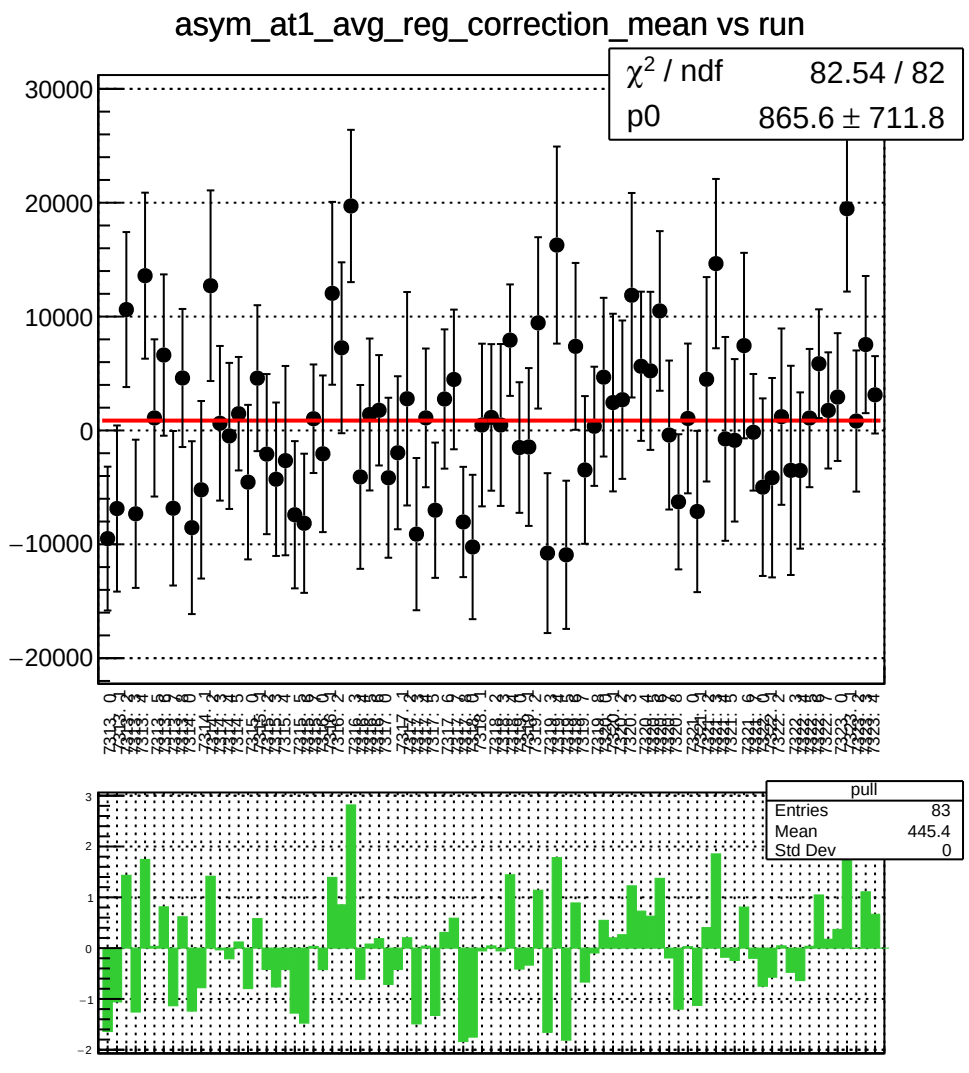

pull1D
Entries 83
Mean 0.03525
Std Dev 0.9989

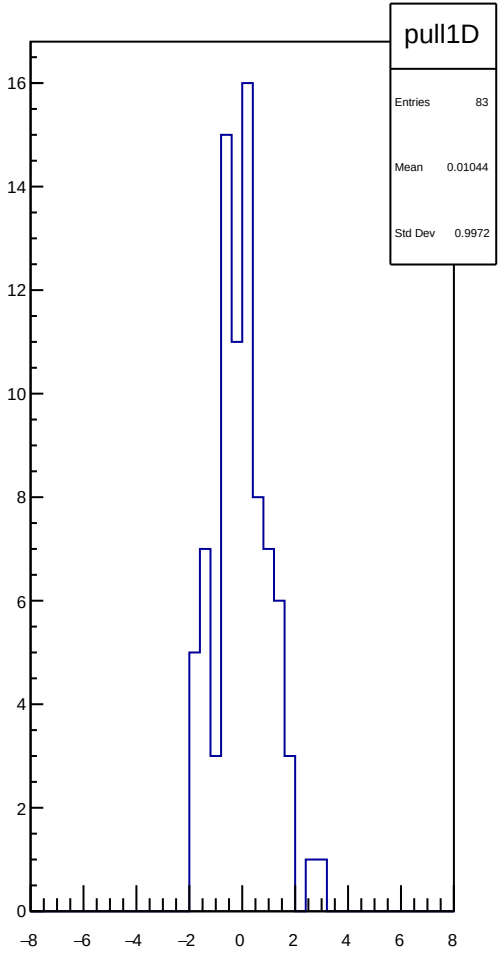

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.07e+05 / 82
p0 7.199e−11 ± 7.183e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

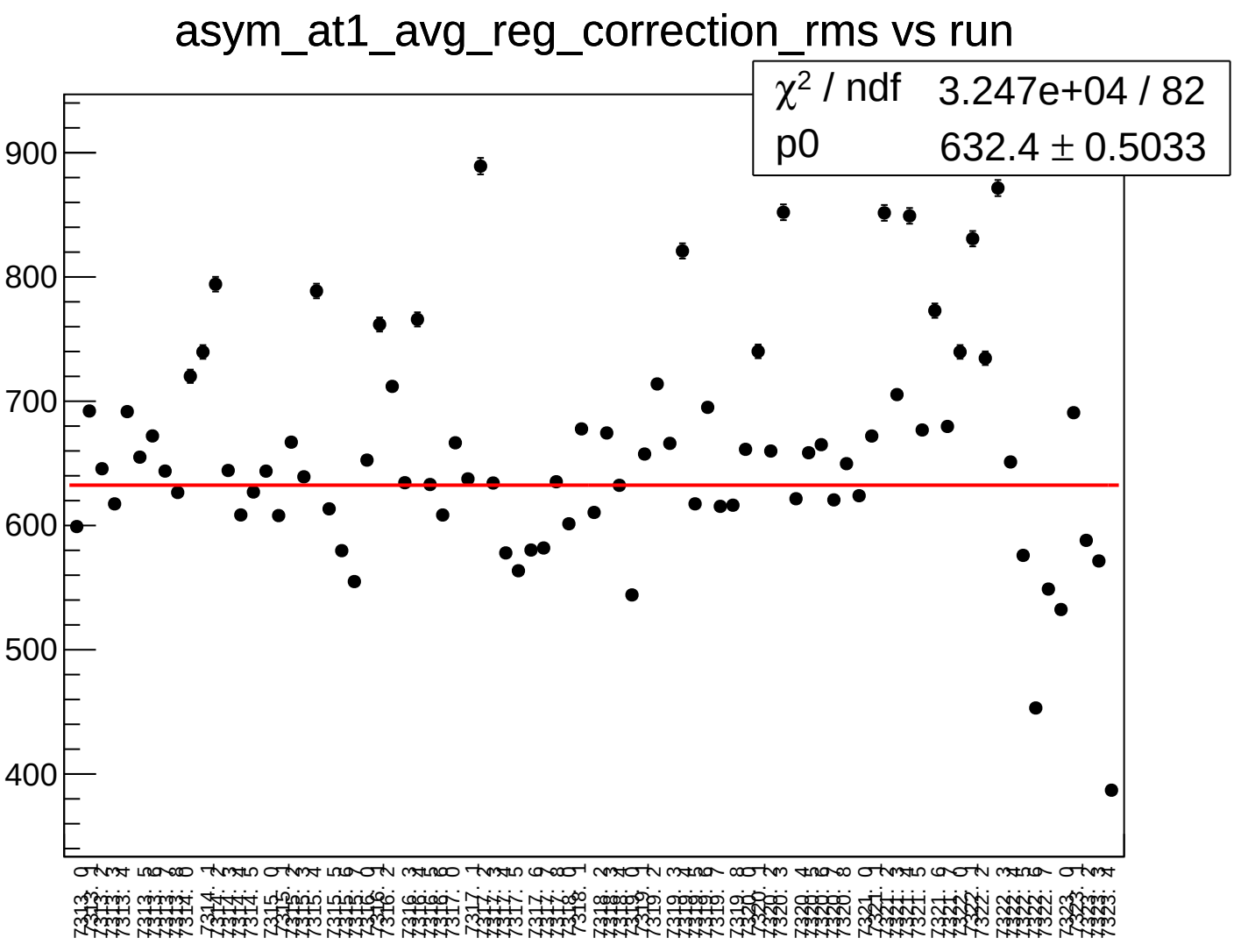

reg_asym_at1_avg_mean vs run
χ² / ndf 98.38 / 82
p0 −308.3 ± 2022
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −656.5
Std Dev 0
3
2
1
0
−1
−2
−3

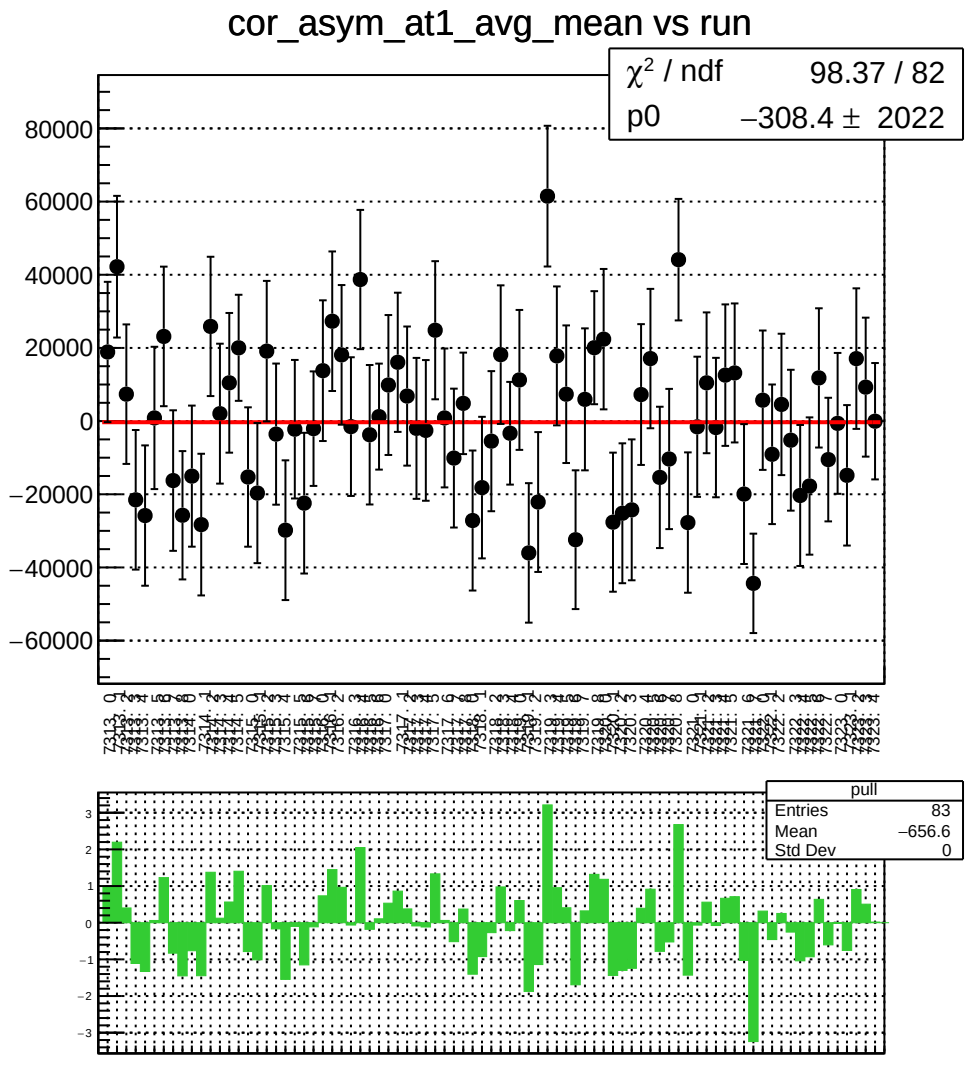

pull1D
Entries 83
Mean 0.003129
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

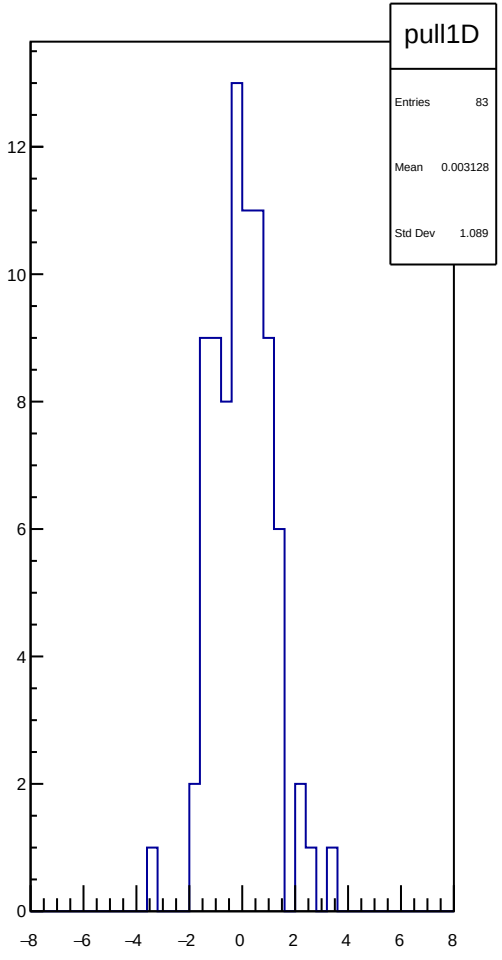

reg_asym_at1_avg_rms vs run
χ² / ndf 69.25 / 82
p0 1815 ± 1.43
1860
1840
1820
1800
1780
1760

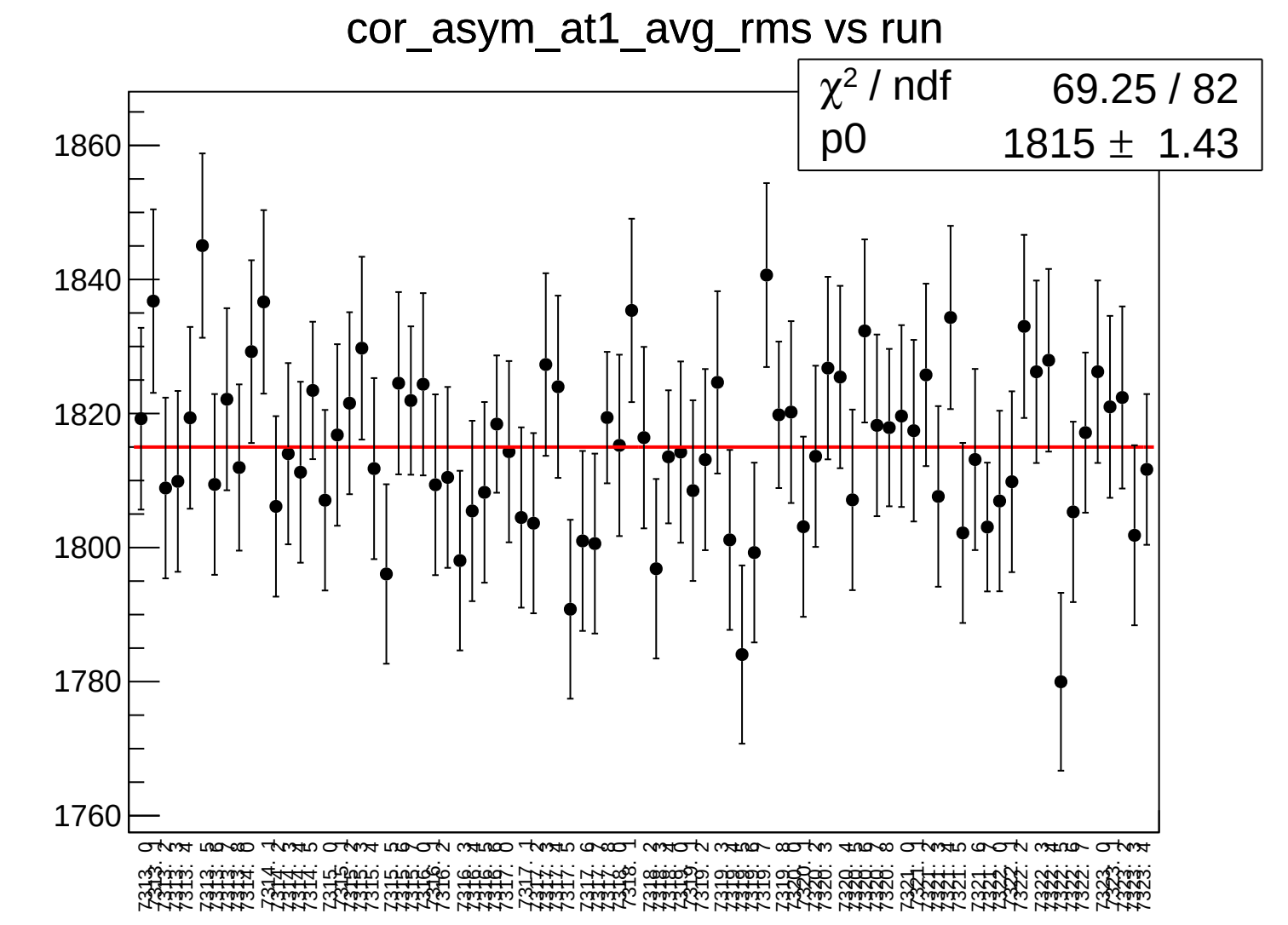

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 82.54 / 82
p0 865.6 ± 711.8
pull
Entries 83
Mean 445.4
Std Dev 0

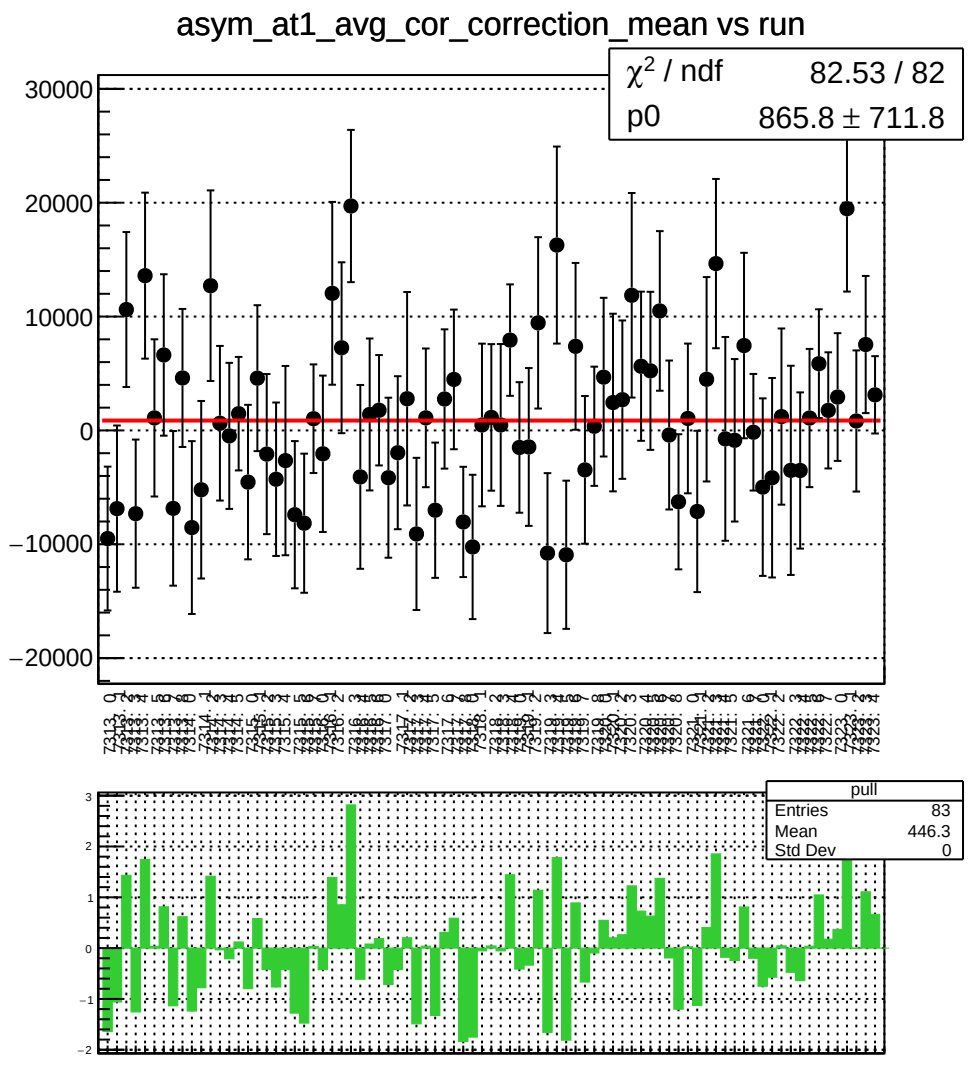

pull1D
Entries 83
Mean 0.01044
Std Dev 0.9972

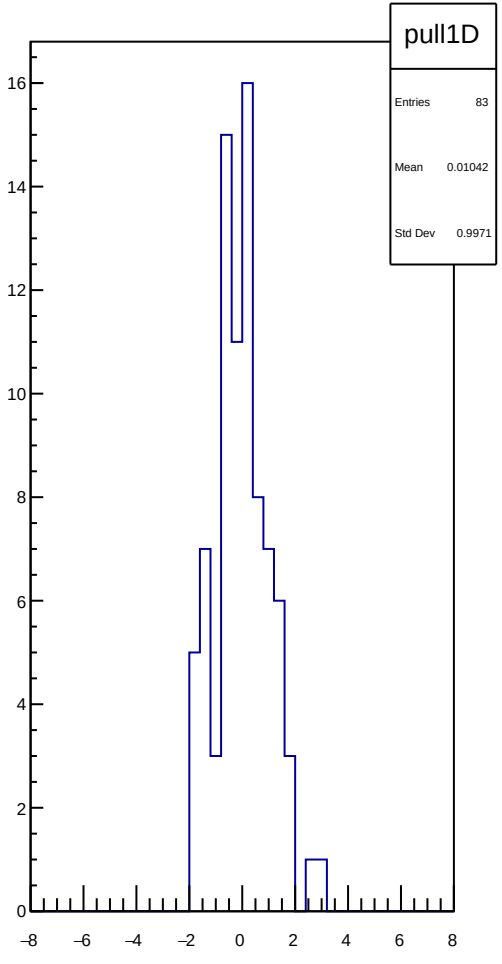

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 3.247e+04 / 82
p0 632.4 ± 0.5033
900
800
700
600
500
400

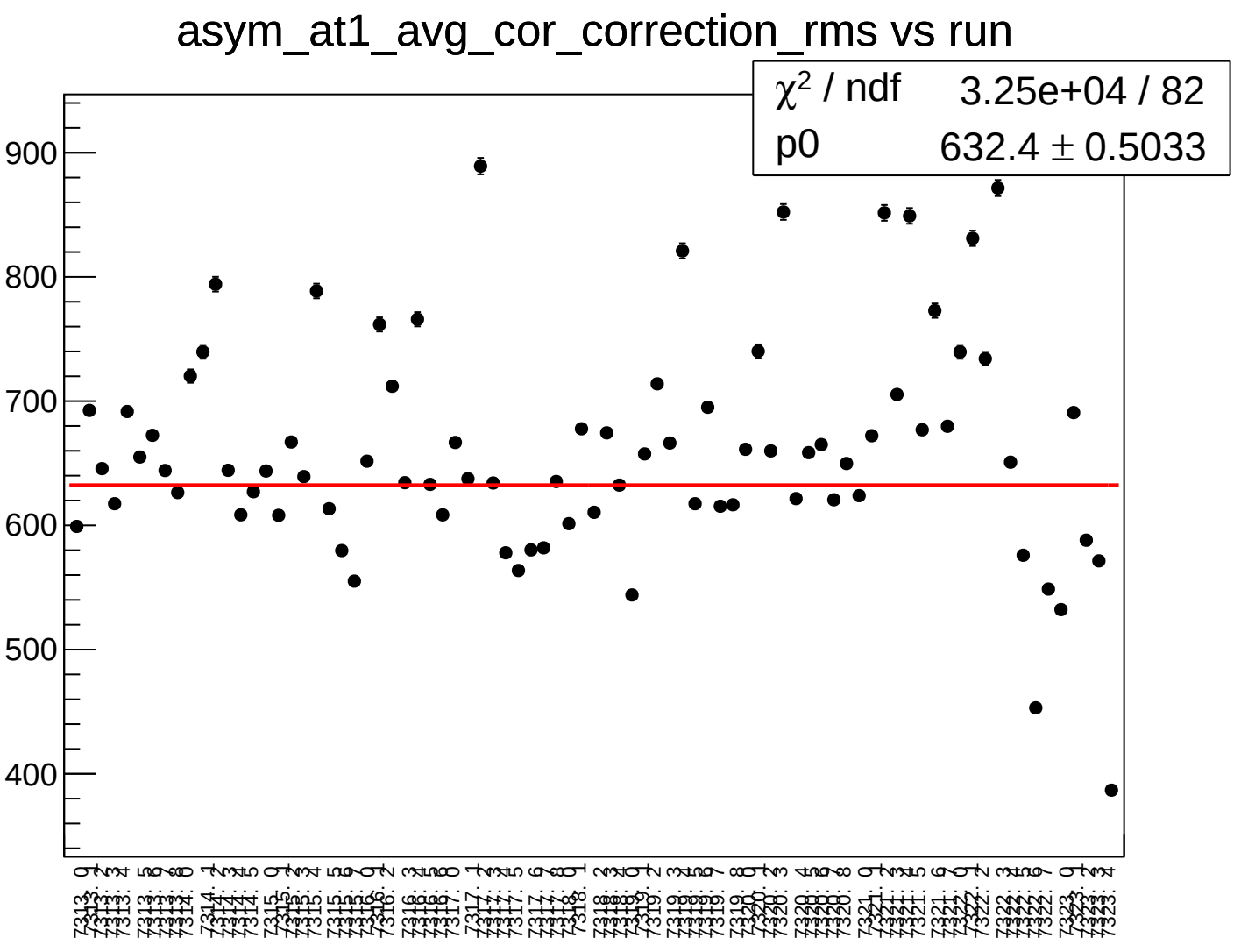

cor_asym_at1_avg_mean vs run
χ² / ndf 98.37 / 82
p0 −308.4 ± 2022
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −656.6
Std Dev 0
3
2
1
0
−1
−2
−3

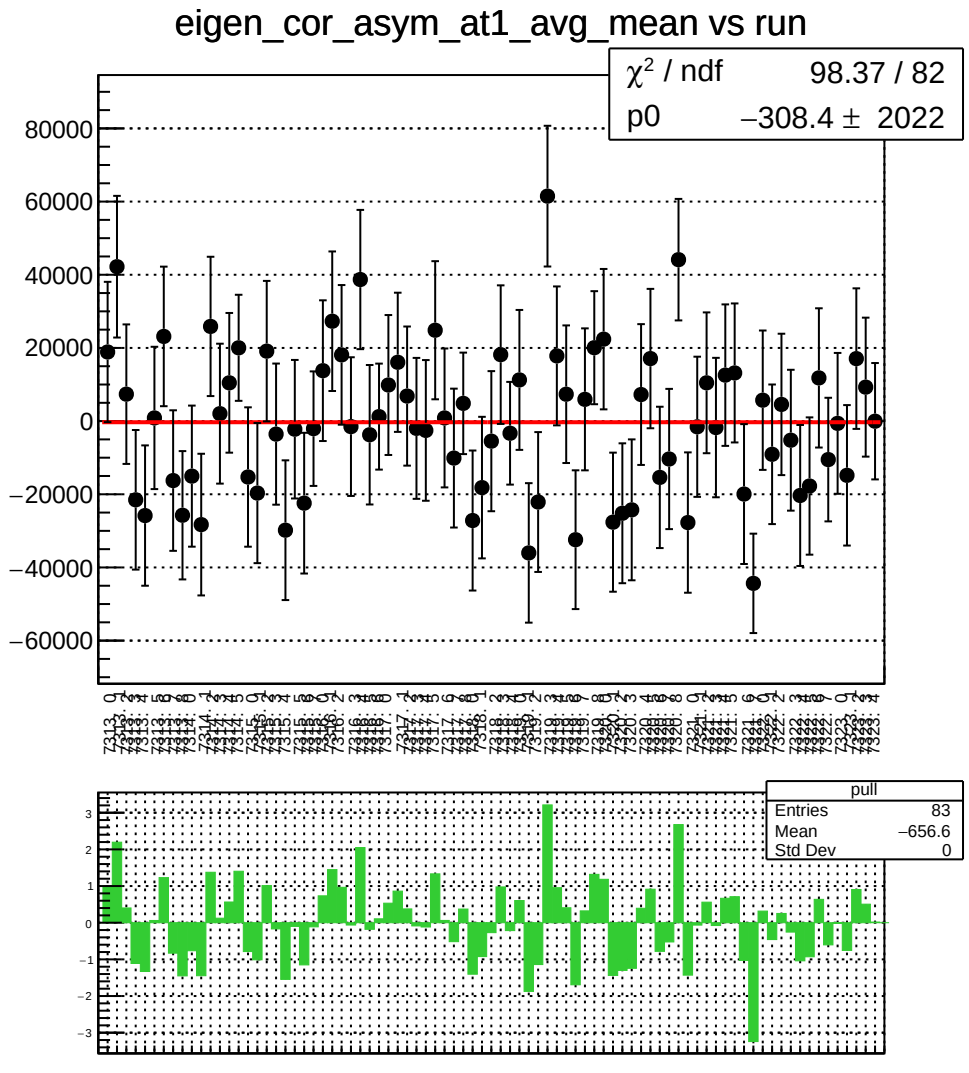

pull1D
Entries 83
Mean 0.003128
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

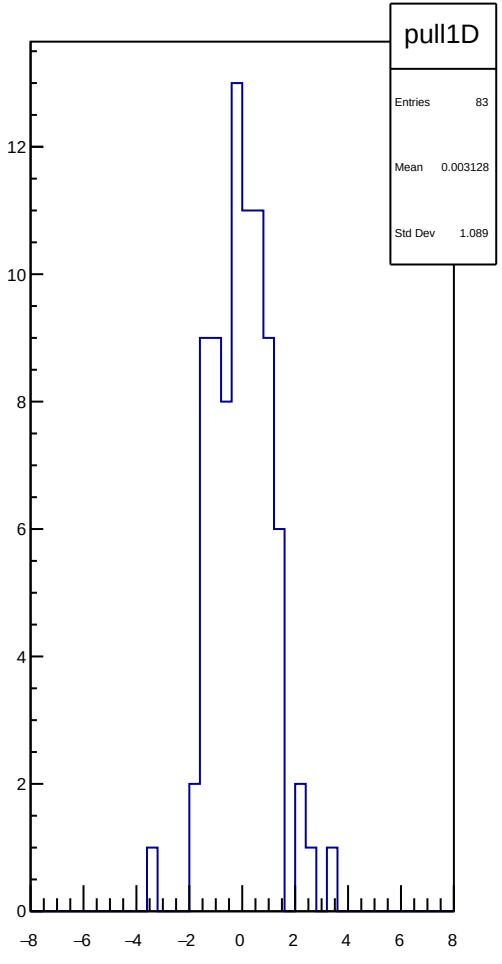

cor_asym_at1_avg_rms vs run
χ² / ndf 69.25 / 82
p0 1815 ± 1.43
1860
1840
1820
1800
1780
1760

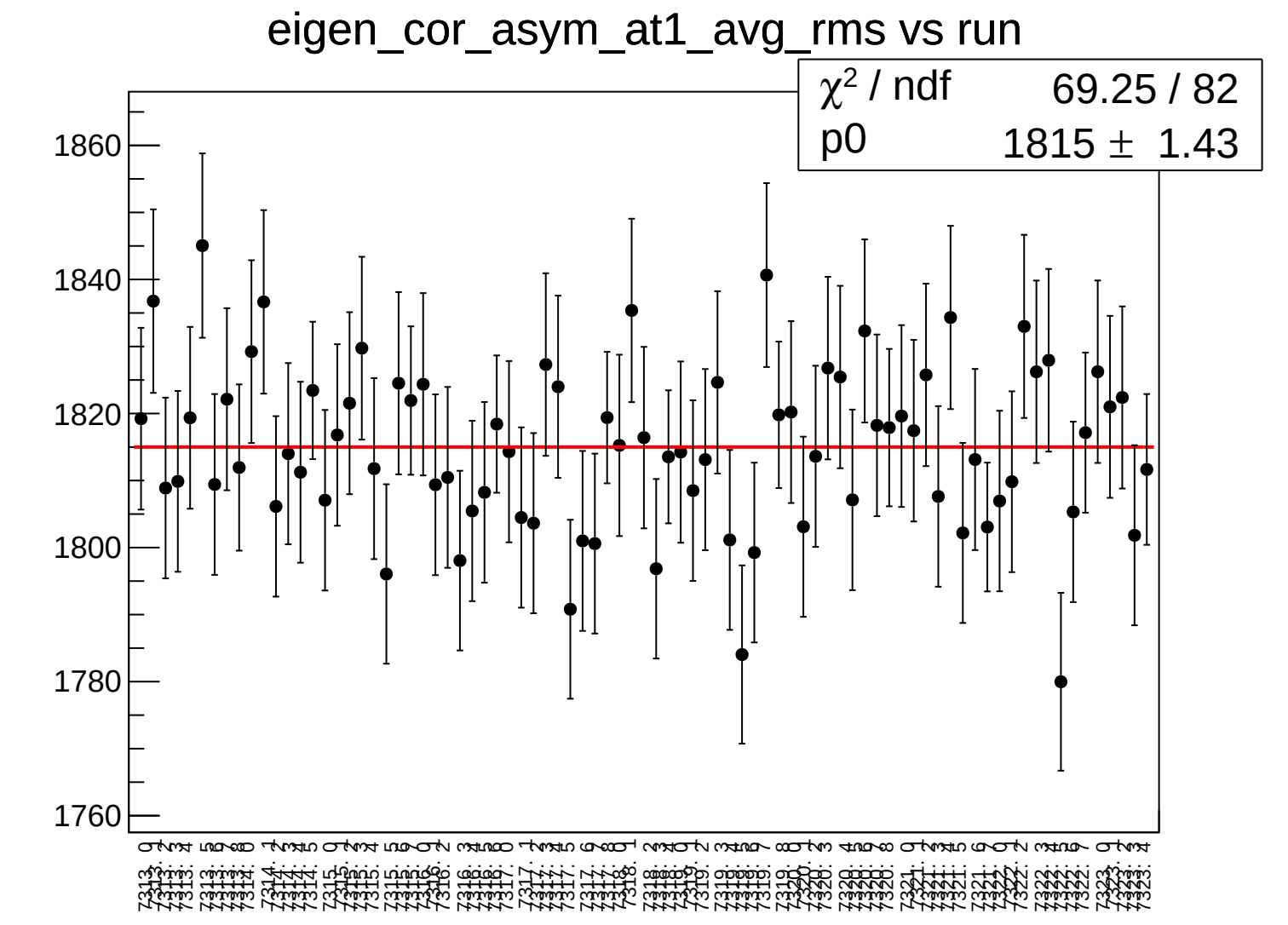

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 82.53 / 82
p0 865.8 ± 711.8
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 446.3
Std Dev 0
3
2
1
0
−1
−2

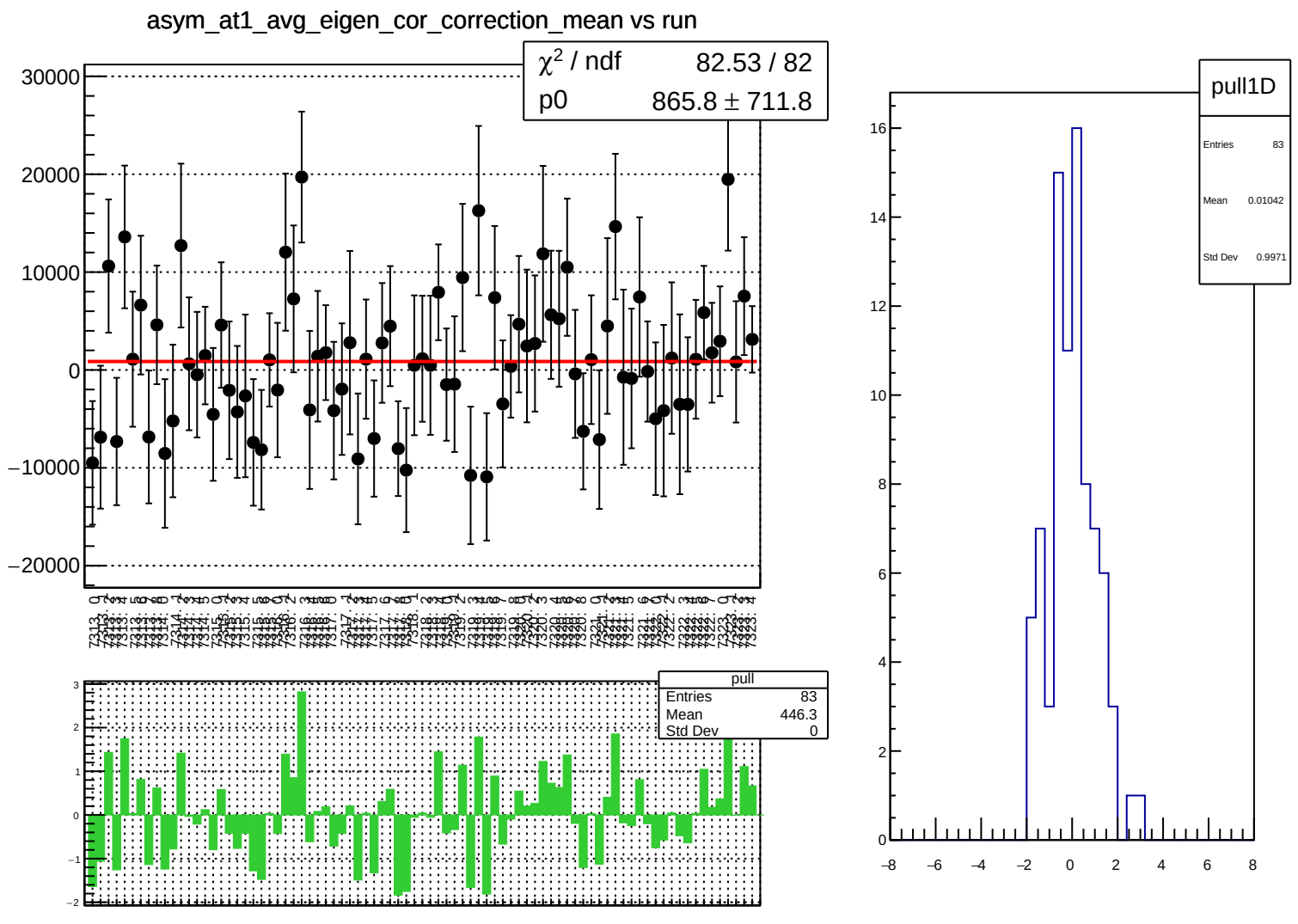

pull1D
Entries 83
Mean 0.01042
Std Dev 0.9971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

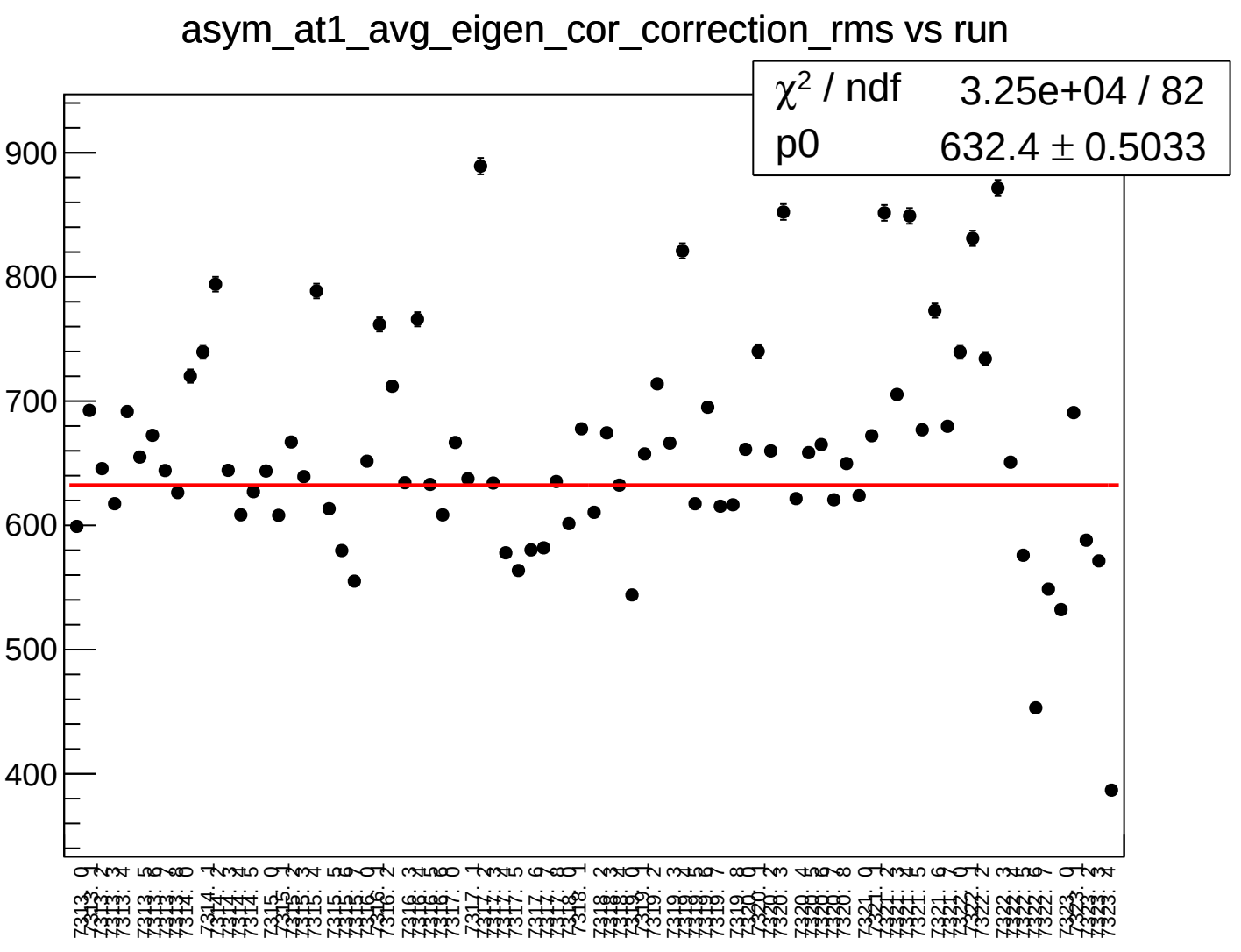

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 3.25e+04 / 82
p0 632.4 ± 0.5033
900
800
700
600
500
400

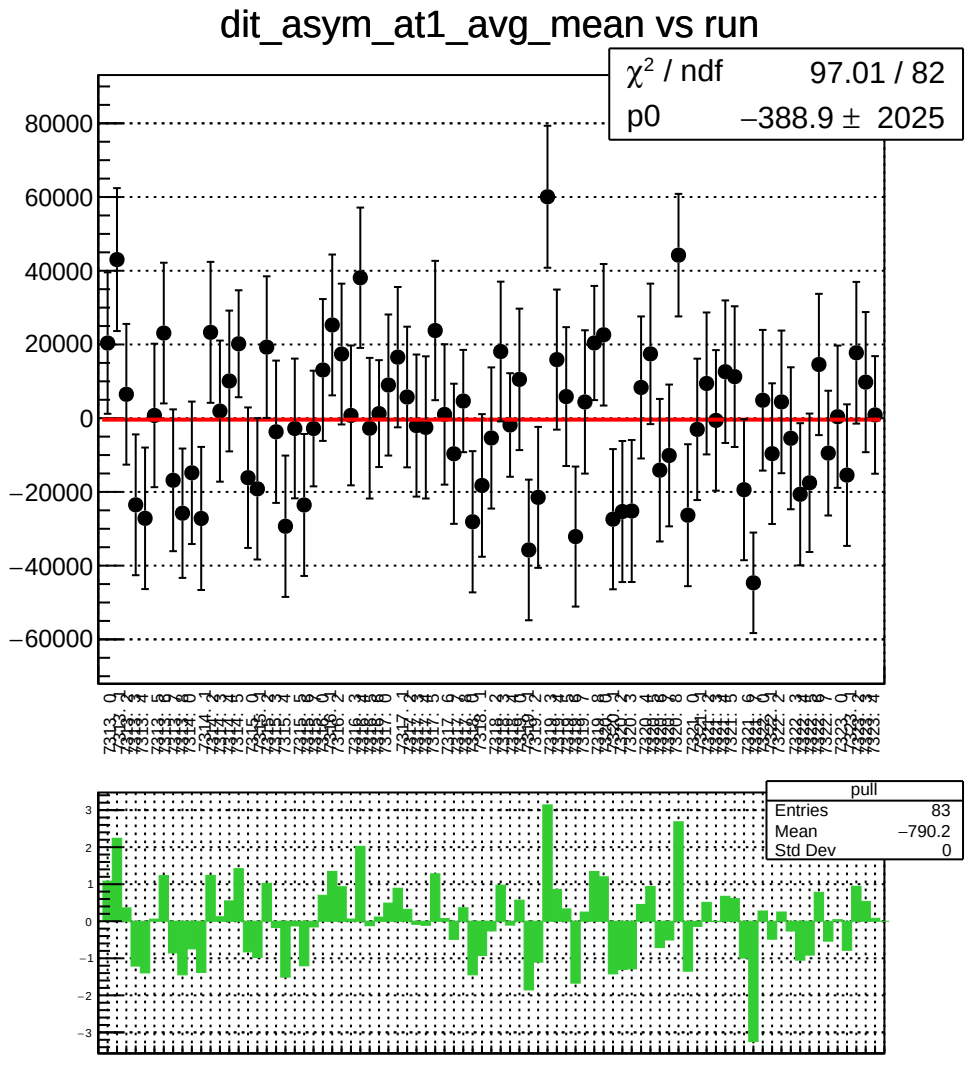

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 98.37 / 82
p0 −308.4 ± 2022
pull
Entries 83
Mean −656.6
Std Dev 0

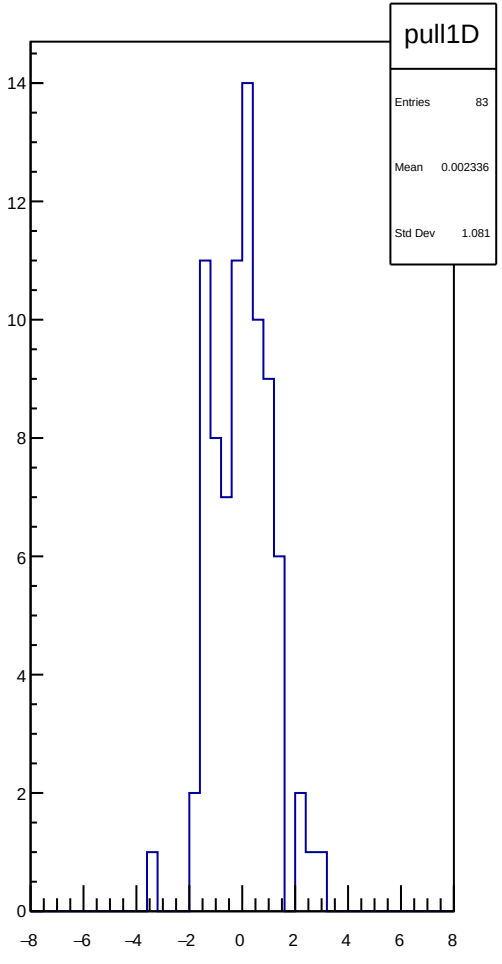

pull1D
Entries 83
Mean 0.003128
Std Dev 1.089

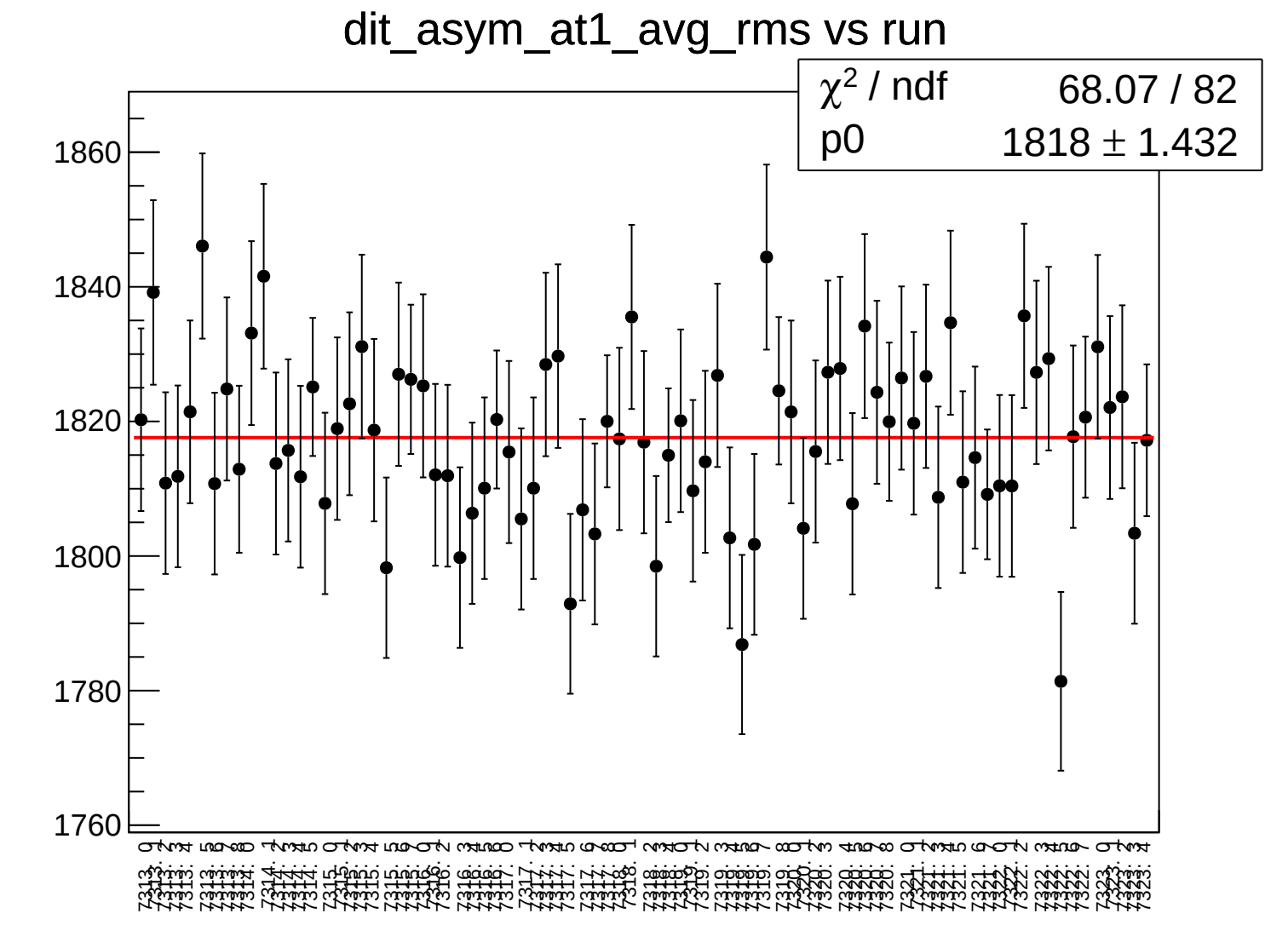

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 69.25 / 82
p0 1815 ± 1.43
1860
1840
1820
1800
1780
1760

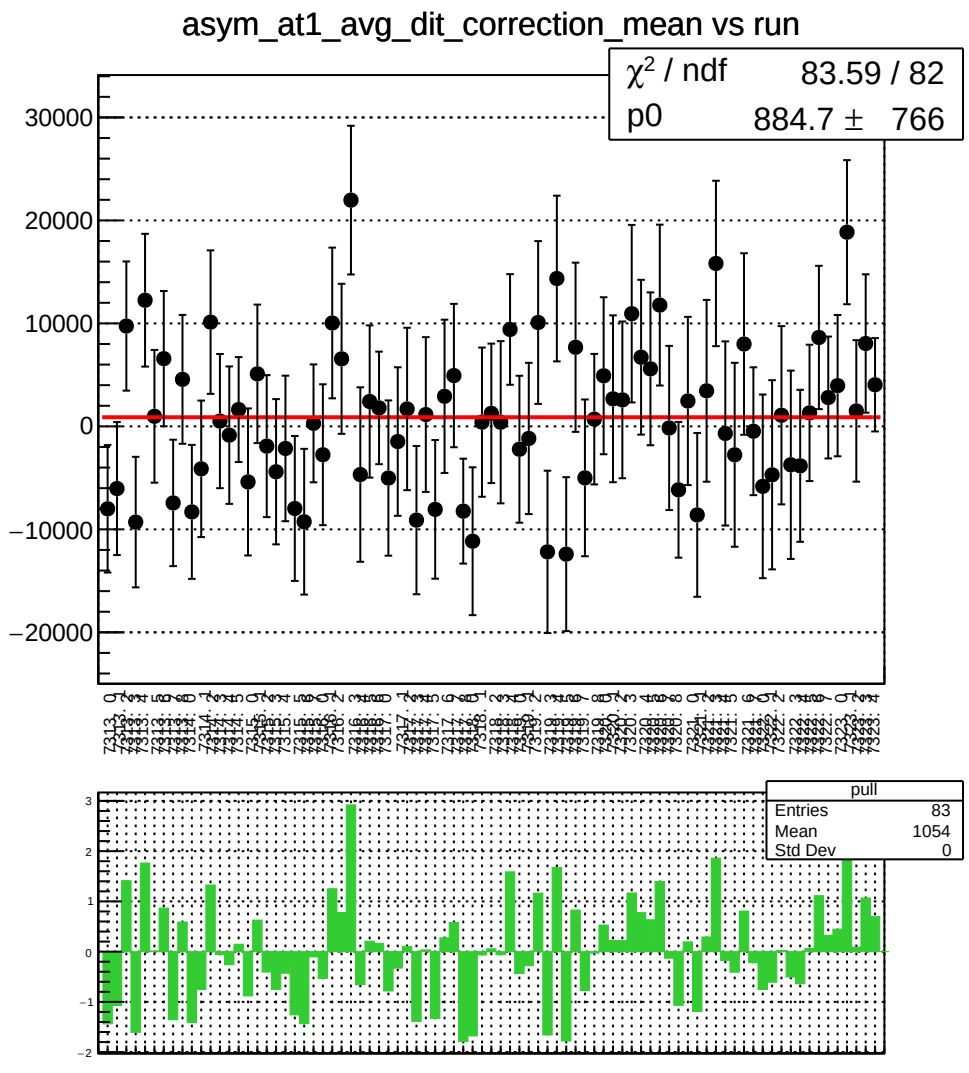

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.53 / 82
p0 865.8 ± 711.8
pull
Entries 83
Mean 446.3
Std Dev 0
pull1D
Entries 83
Mean 0.01042
Std Dev 0.9971

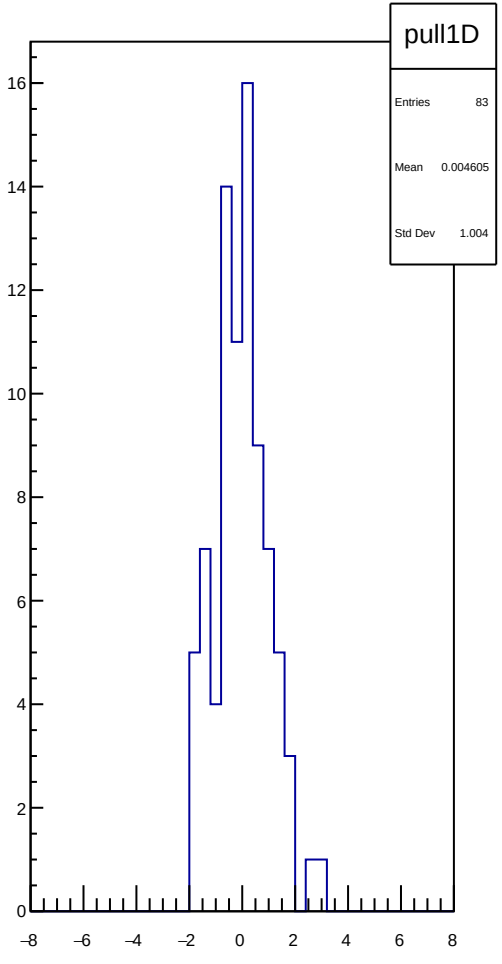

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.25e+04 / 82
p0 632.4 ± 0.5033
900
800
700
600
500
400

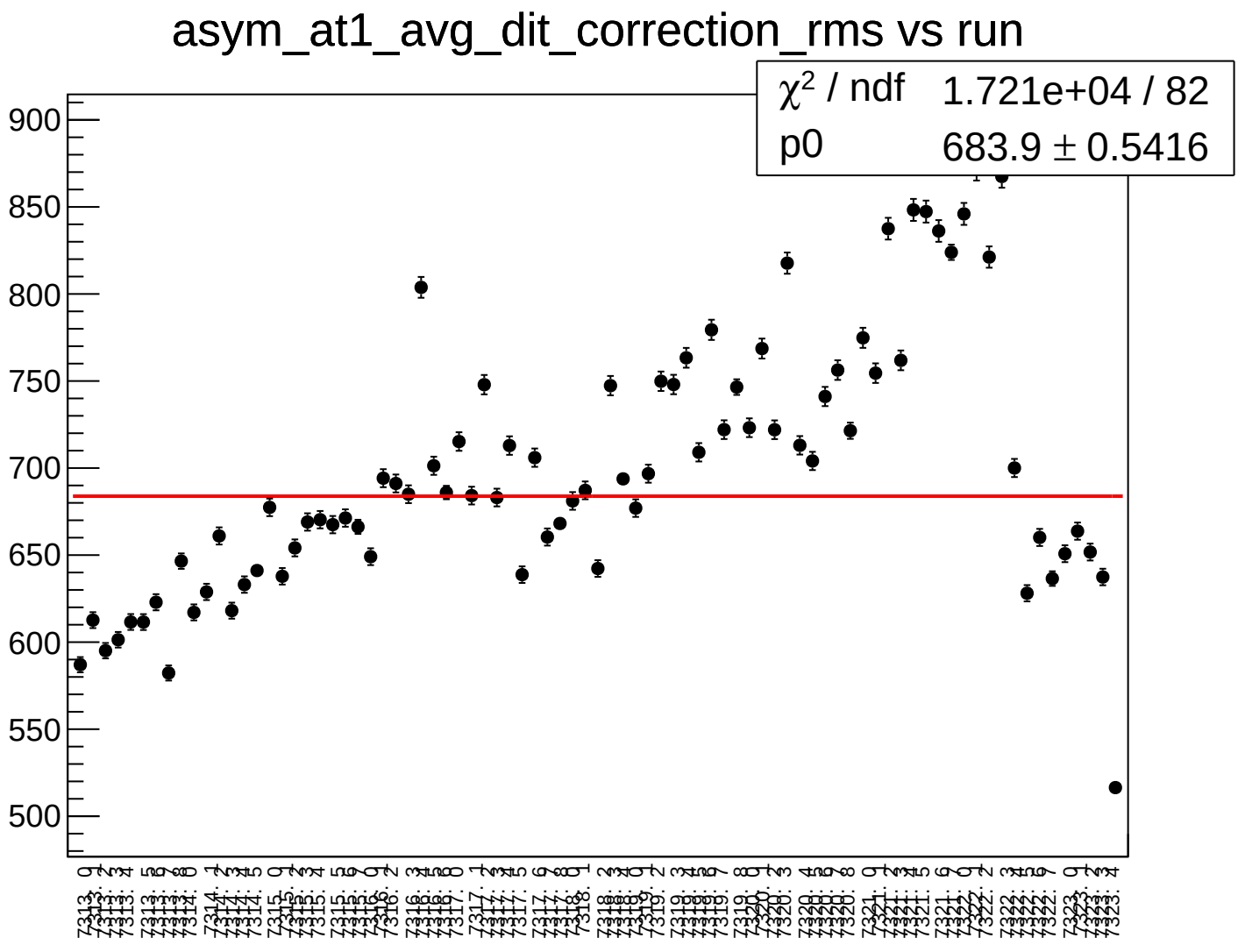

dit_asym_at1_avg_mean vs run
χ² / ndf 97.01 / 82
p0 −388.9 ± 2025
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −790.2
Std Dev 0
3
2
1
0
−1
−2
−3

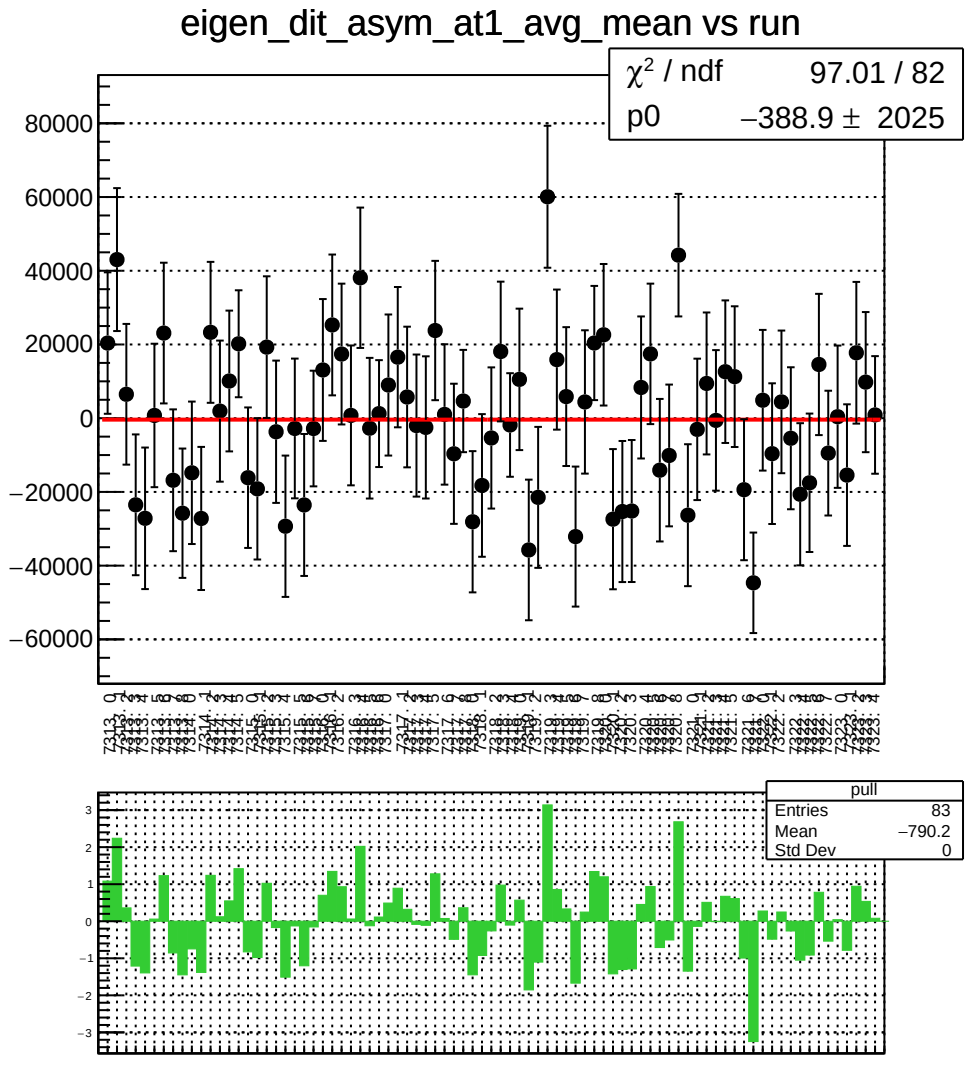

pull1D
Entries 83
Mean 0.002336
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

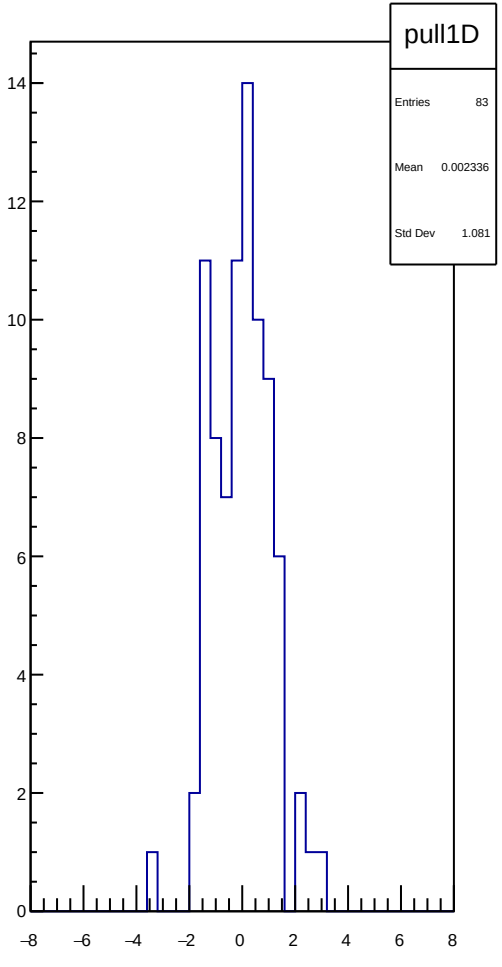

dit_asym_at1_avg_rms vs run
χ² / ndf 68.07 / 82
p0 1818 ± 1.432
1860
1840
1820
1800
1780
1760

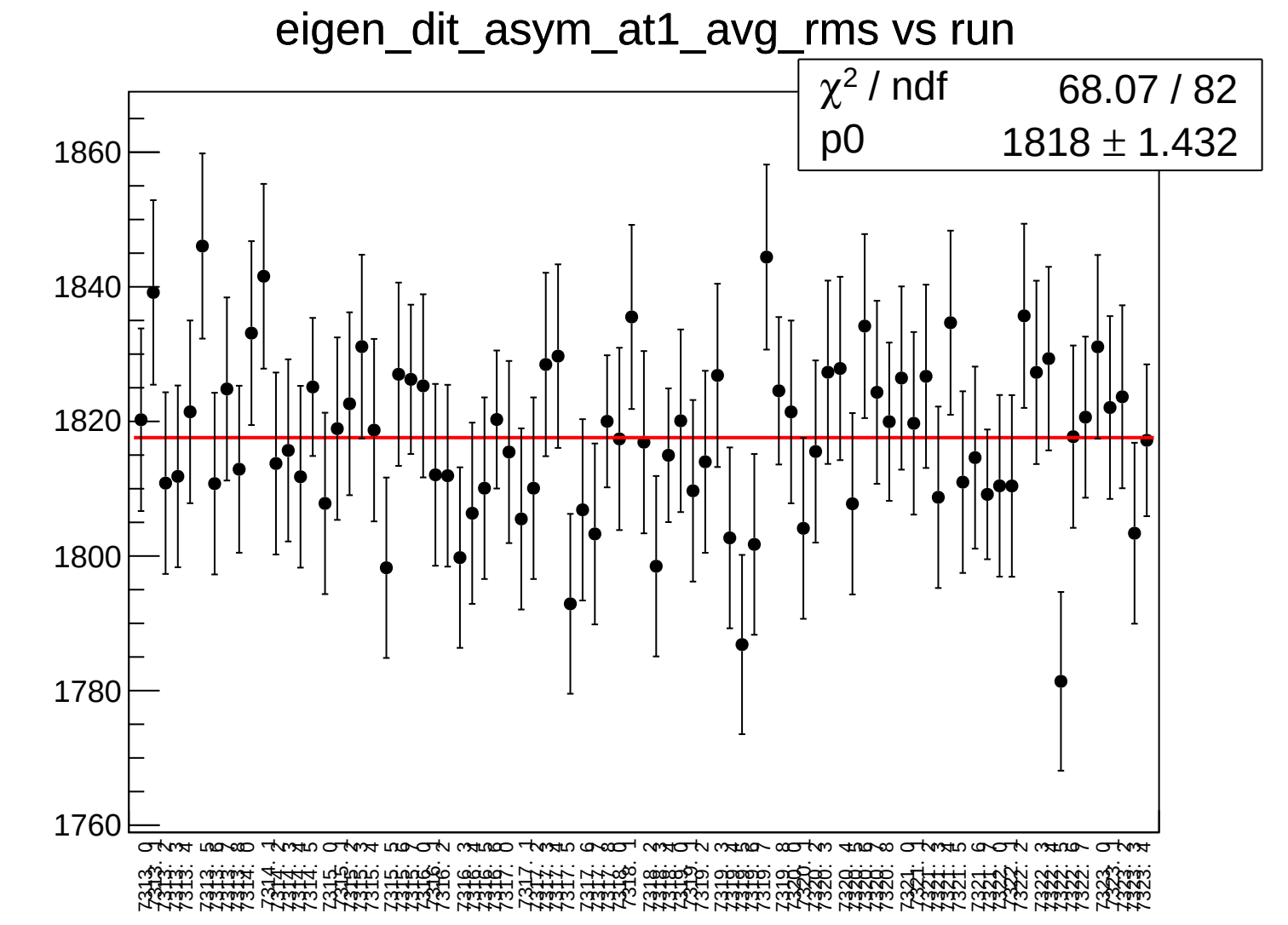

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 83.59 / 82
p0 884.7 ± 766
pull
Entries 83
Mean 1054
Std Dev 0

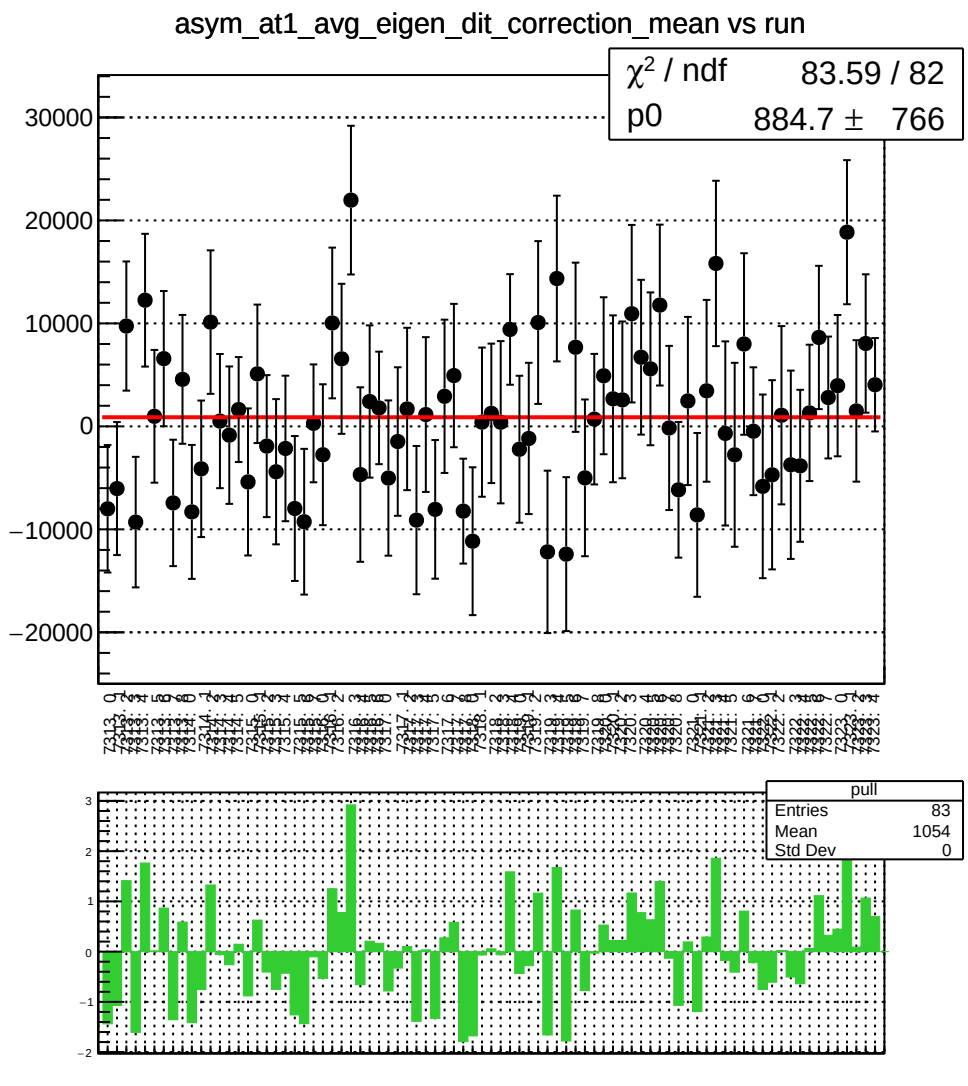

pull1D
Entries 83
Mean 0.004605
Std Dev 1.004

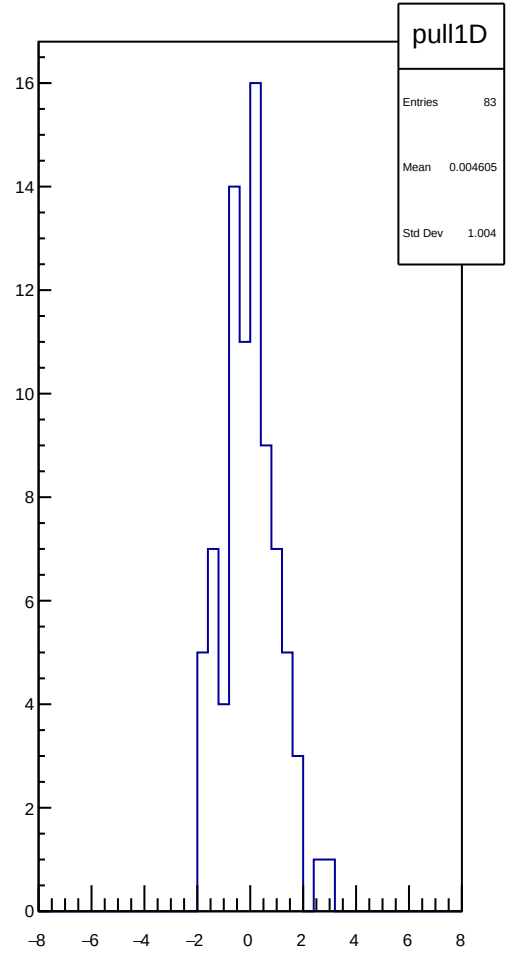

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.721e+04 / 82
p0 683.9 ± 0.5416
900
850
800
750
700
650
600
550
500

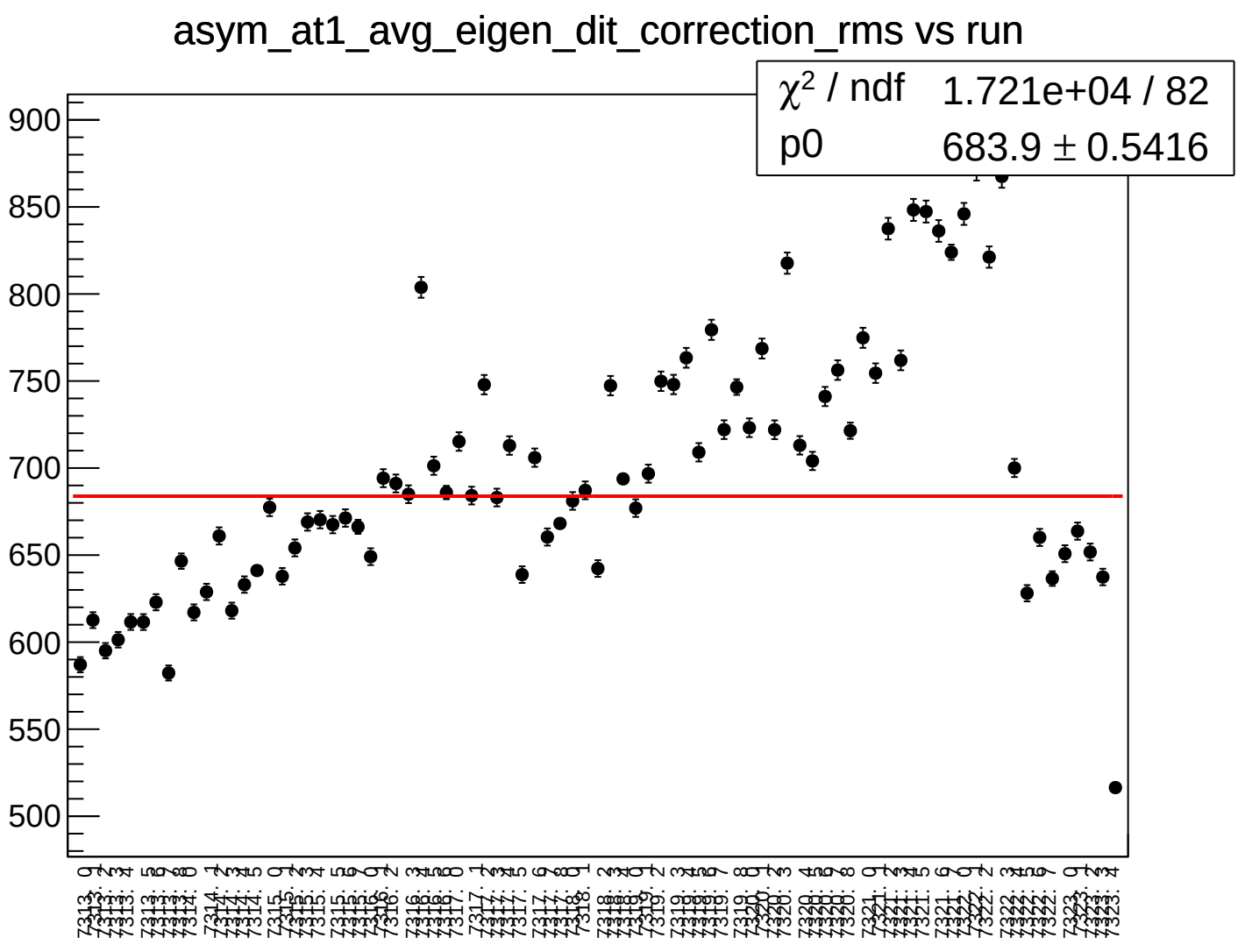

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 97.01 / 82
p0 −388.9 ± 2025
pull
Entries 83
Mean −790.2
Std Dev 0

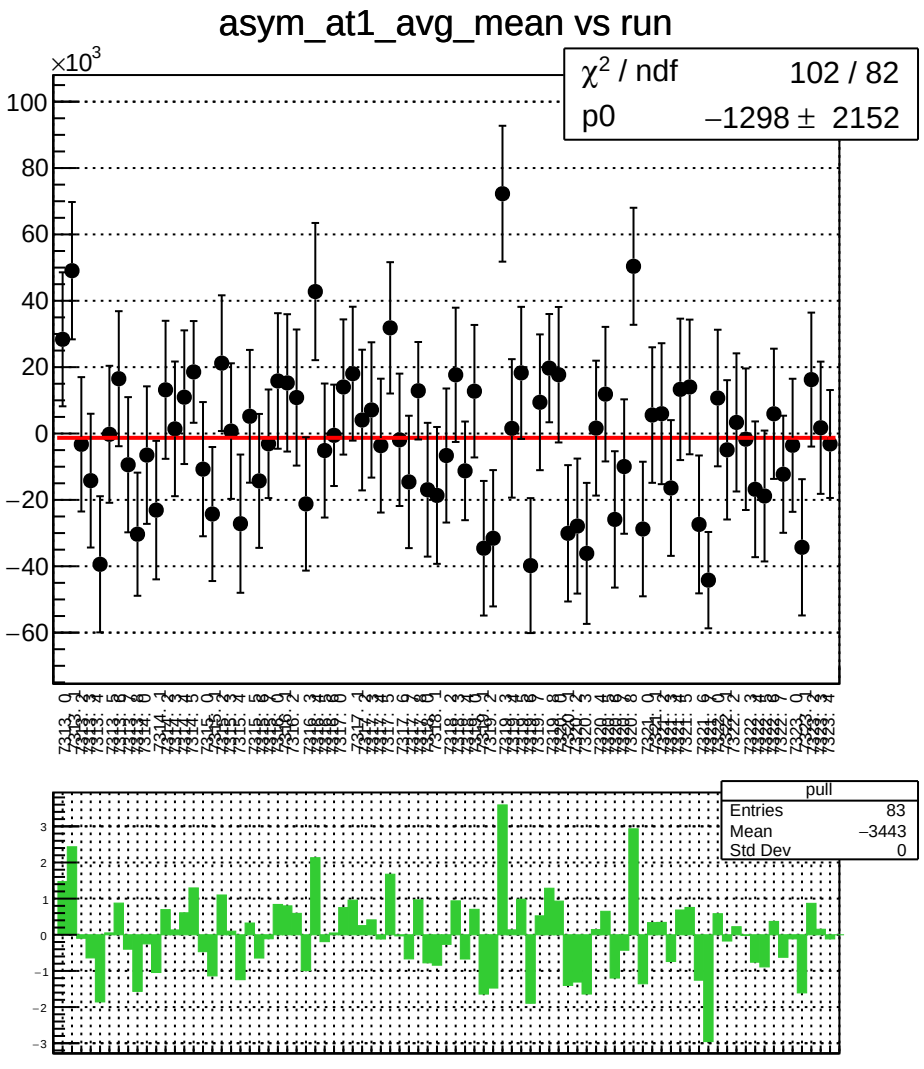

pull1D
Entries 83
Mean 0.002336
Std Dev 1.081

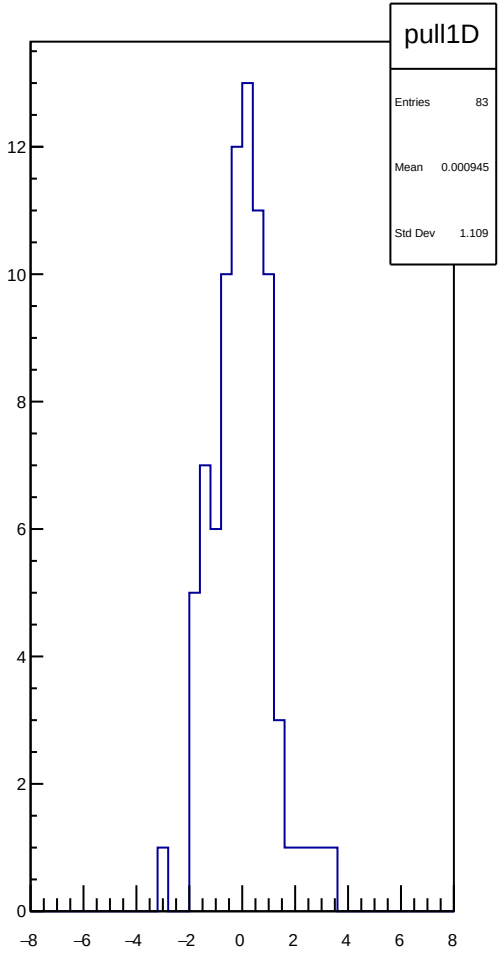

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 68.07 / 82
p0 1818 ± 1.432
1860
1840
1820
1800
1780
1760

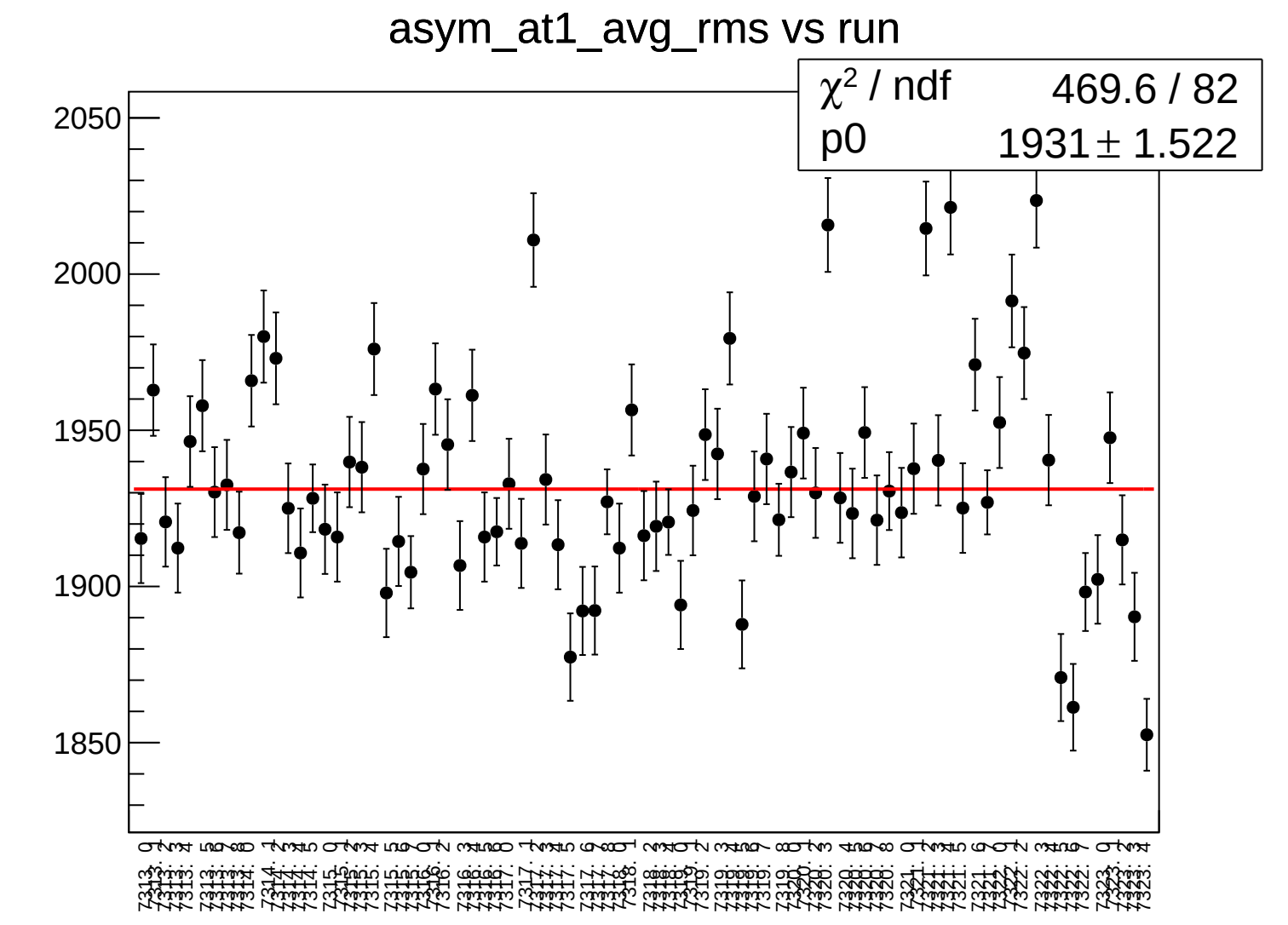

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.59 / 82
p0 884.7 ± 766
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 1054
Std Dev 0
3
2
1
0
−1
−2

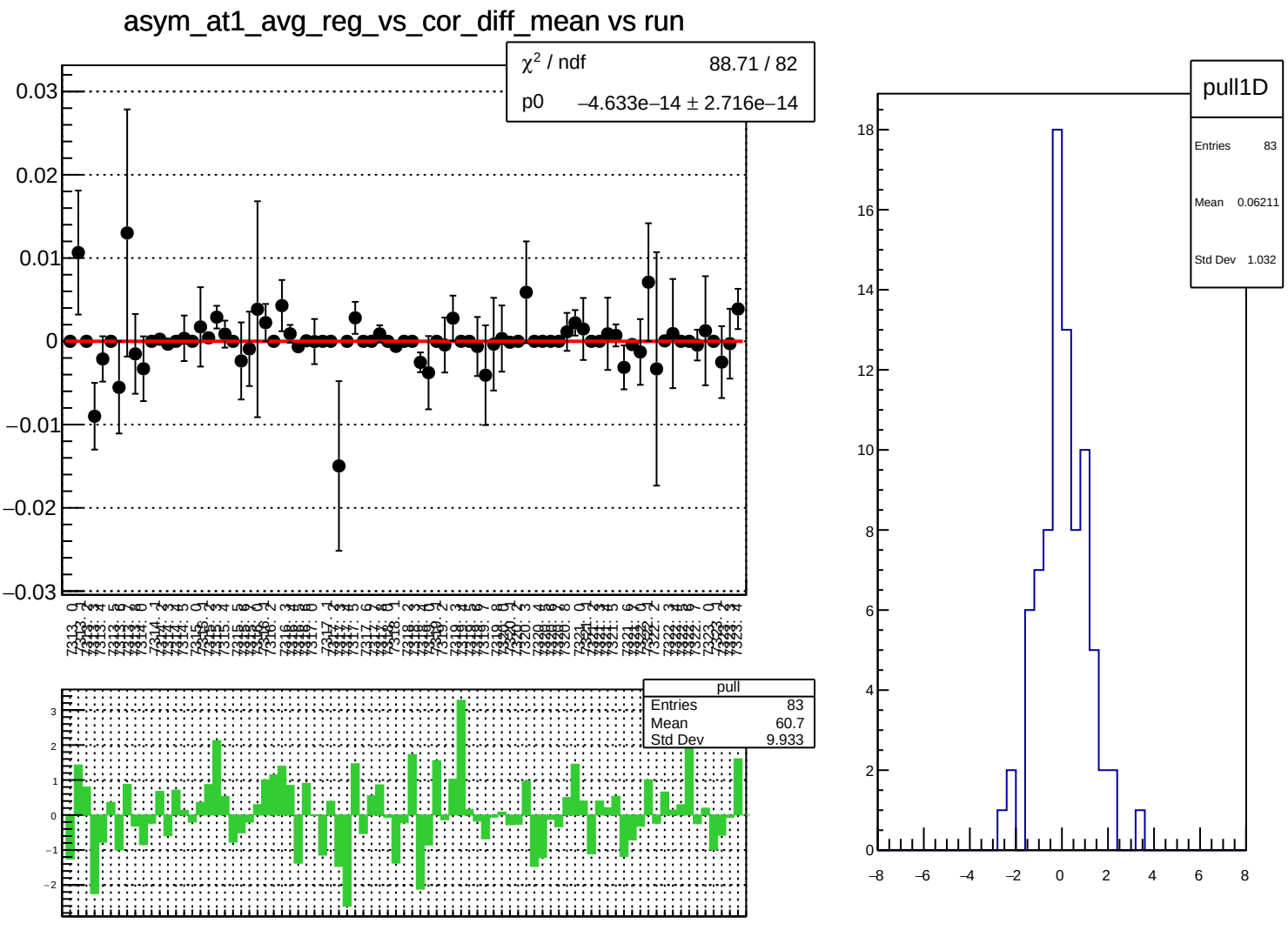

pull1D
Entries 83
Mean 0.004605
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

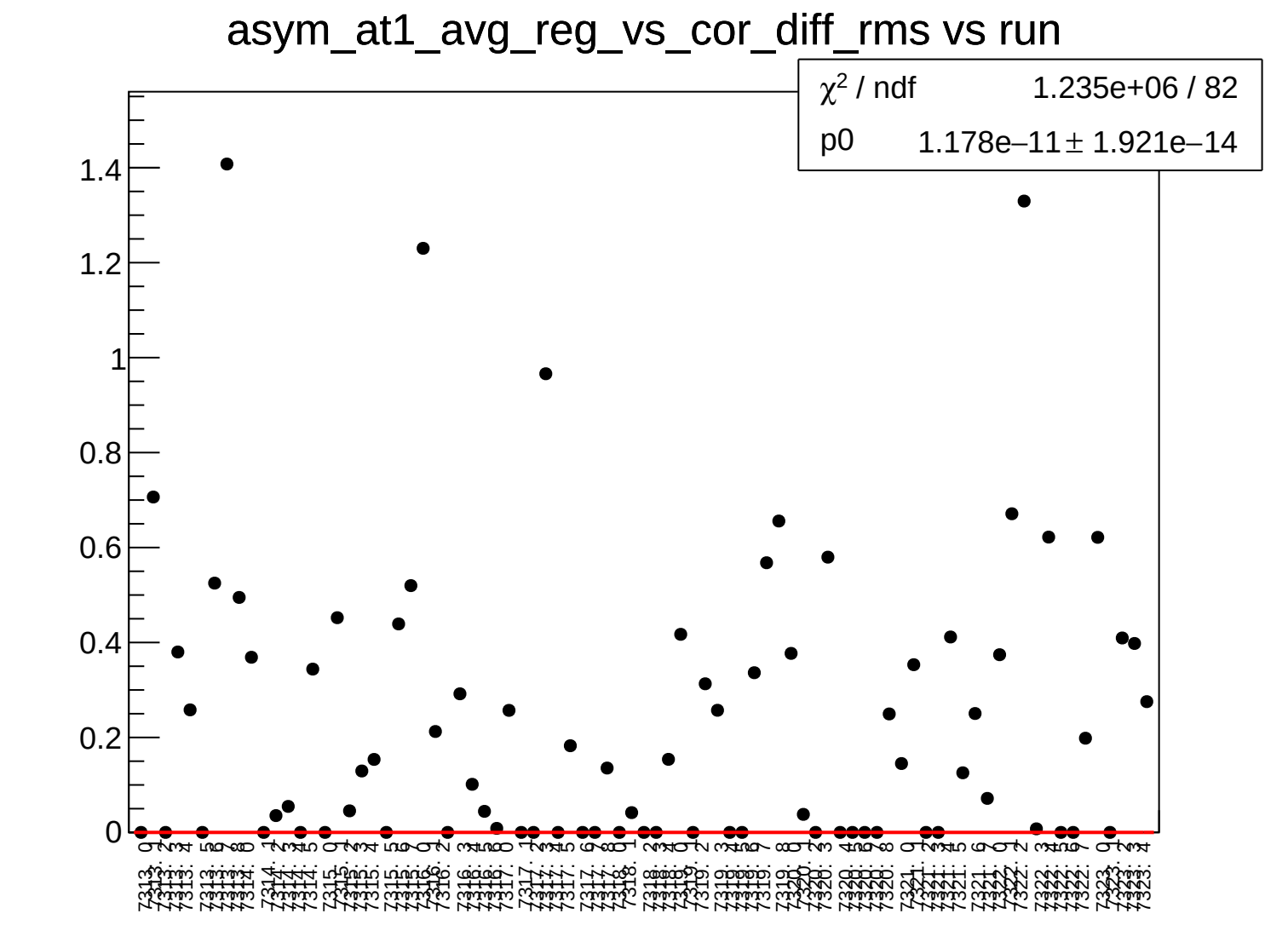

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.721e+04 / 82
p0 683.9 ± 0.5416
900
850
800
750
700
650
600
550
500

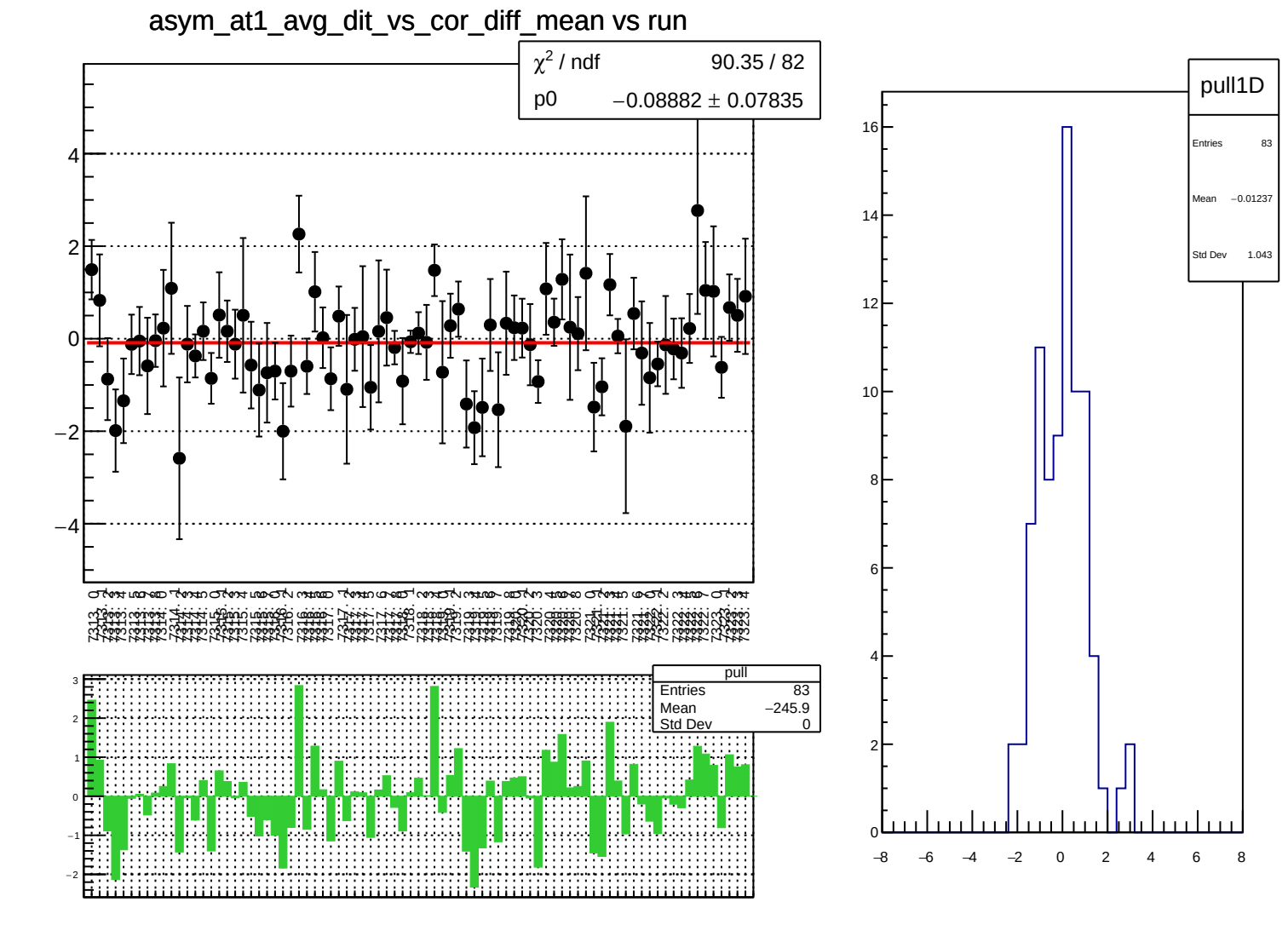

asym_at1_avg_mean vs run
×10^3
χ² / ndf 102 / 82
p0 −1298 ± 2152
pull
Entries 83
Mean −3443
Std Dev 0

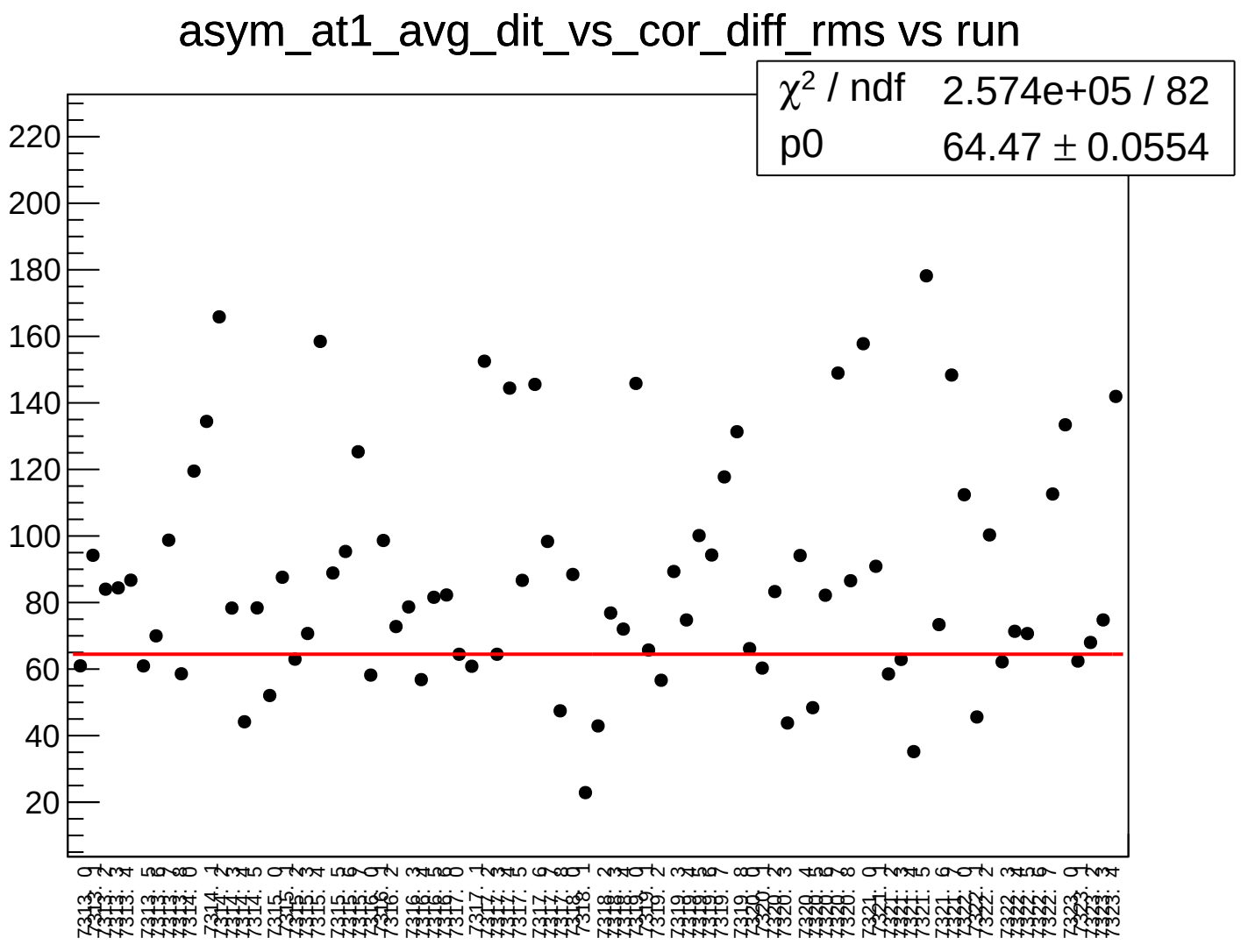

pull1D
Entries 83
Mean 0.000945
Std Dev 1.109

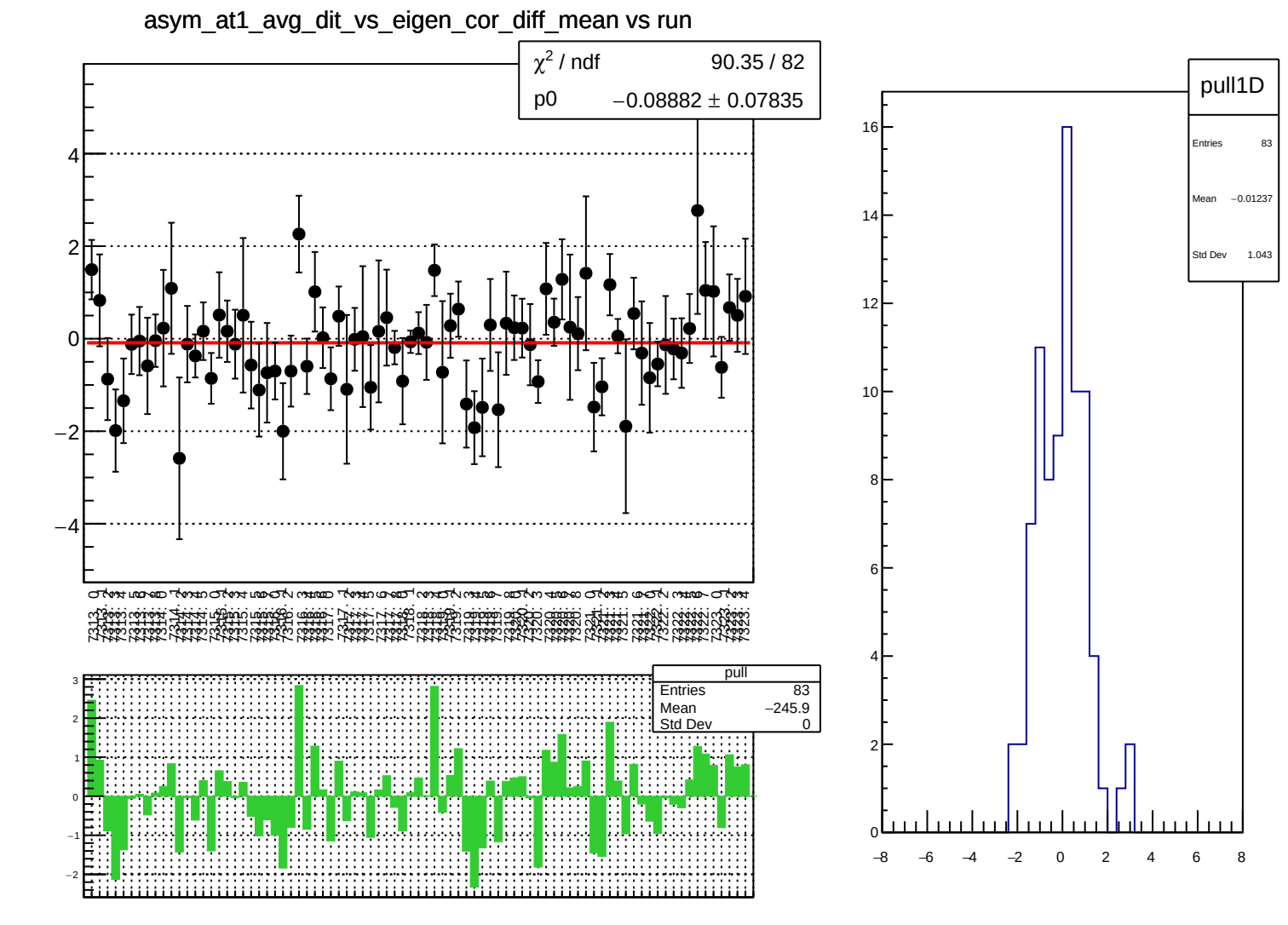

asym_at1_avg_rms vs run
χ² / ndf 469.6 / 82
p0 1931 ± 1.522
2050
2000
1950
1900
1850

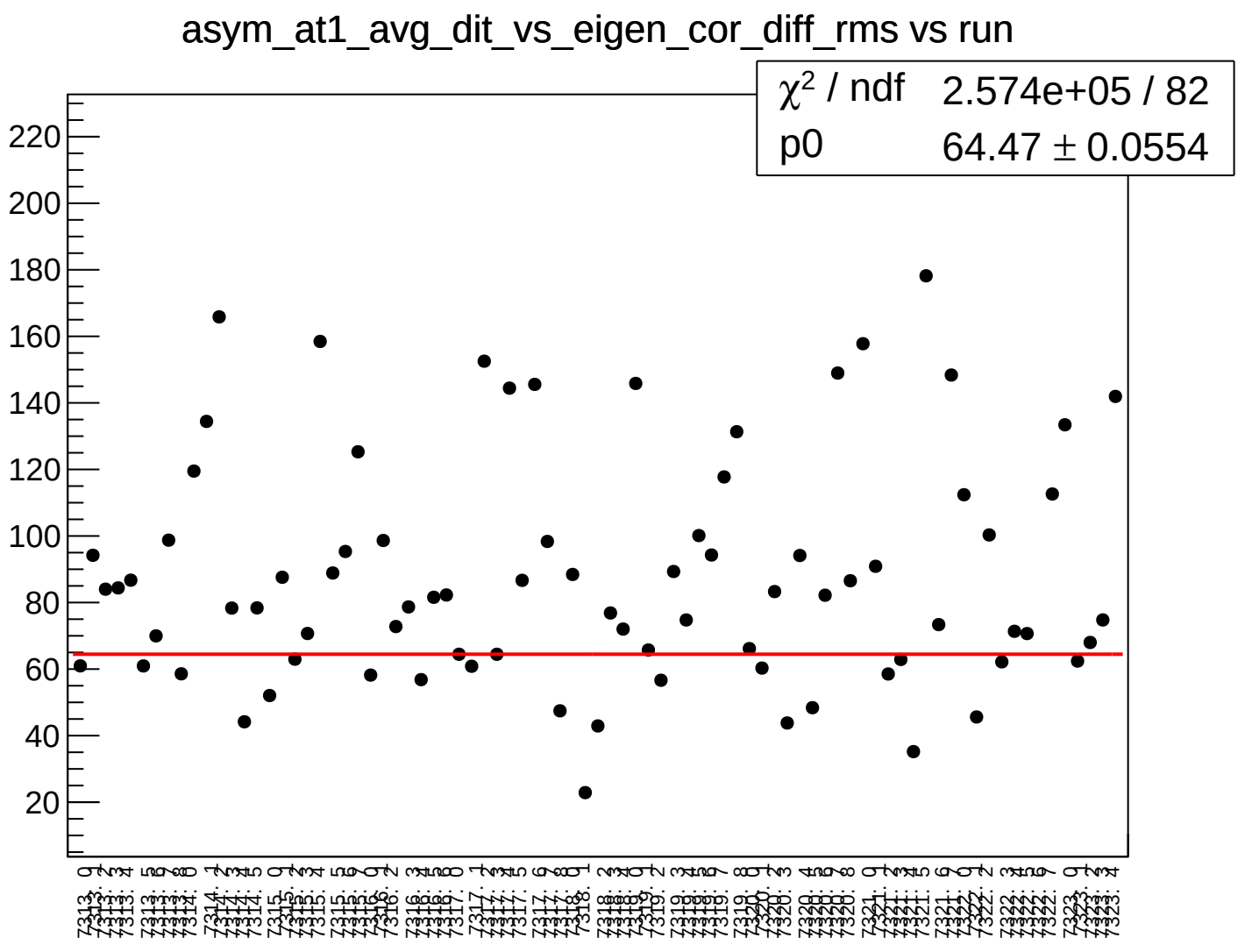

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.71 / 82
p0 −4.633e−14 ± 2.716e−14
pull
Entries 83
Mean 60.7
Std Dev 9.933
pull1D
Entries 83
Mean 0.06211
Std Dev 1.032

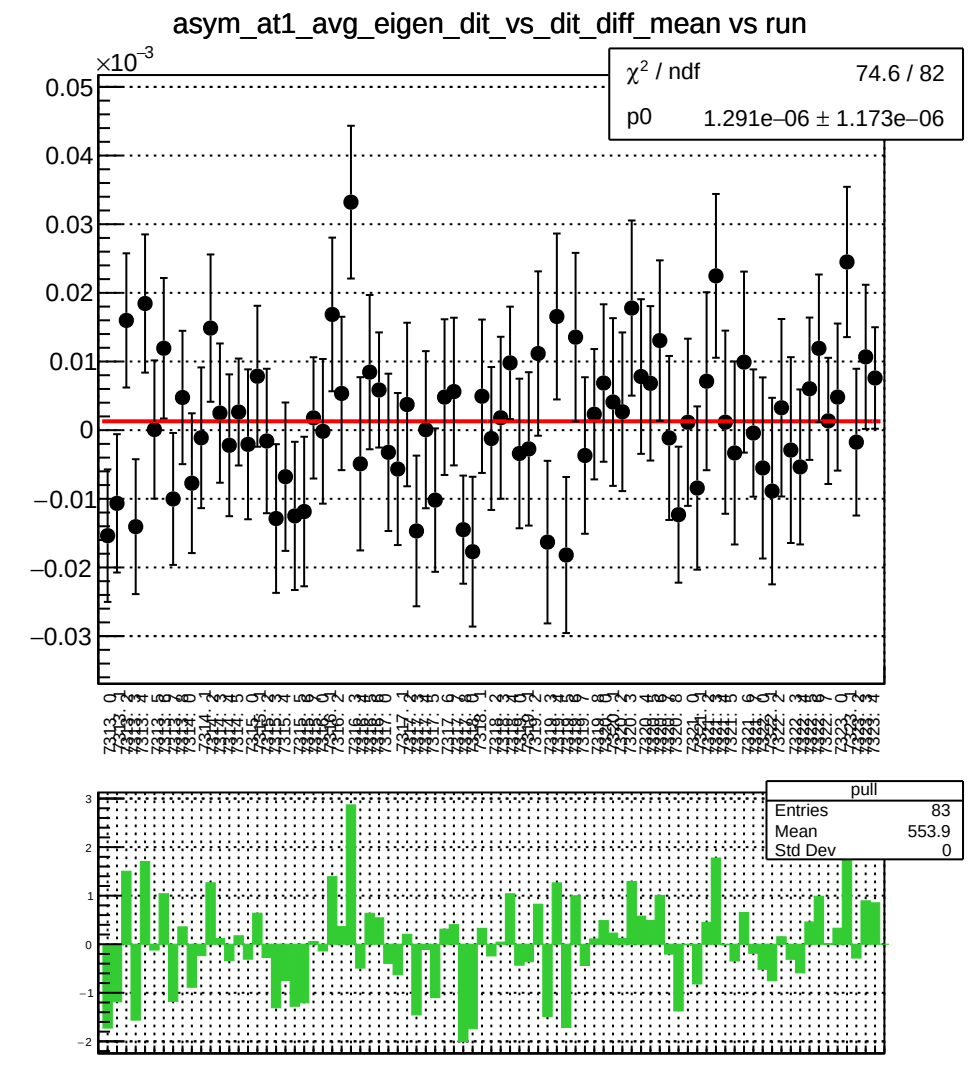

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.235e+06 / 82
p0 1.178e−11 ± 1.921e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

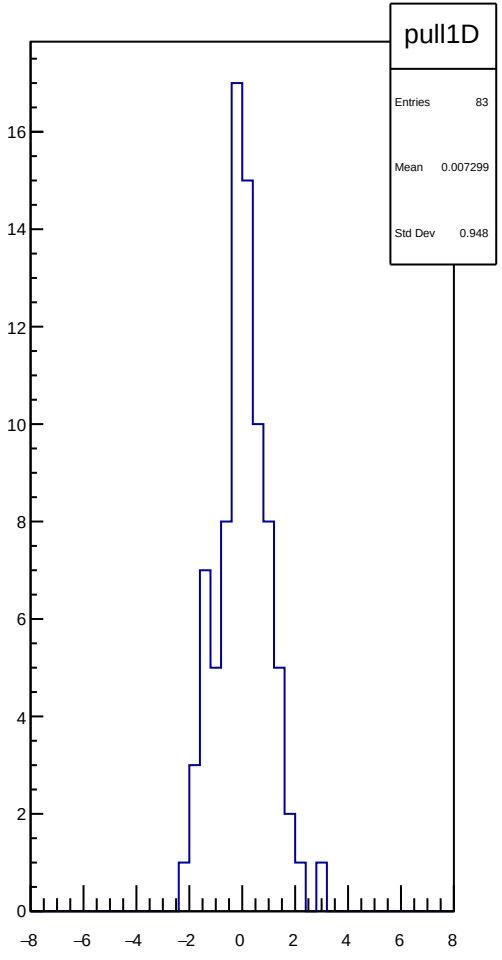

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.35 / 82
p0 −0.08882 ± 0.07835
pull
Entries 83
Mean −245.9
Std Dev 0
pull1D
Entries 83
Mean −0.01237
Std Dev 1.043

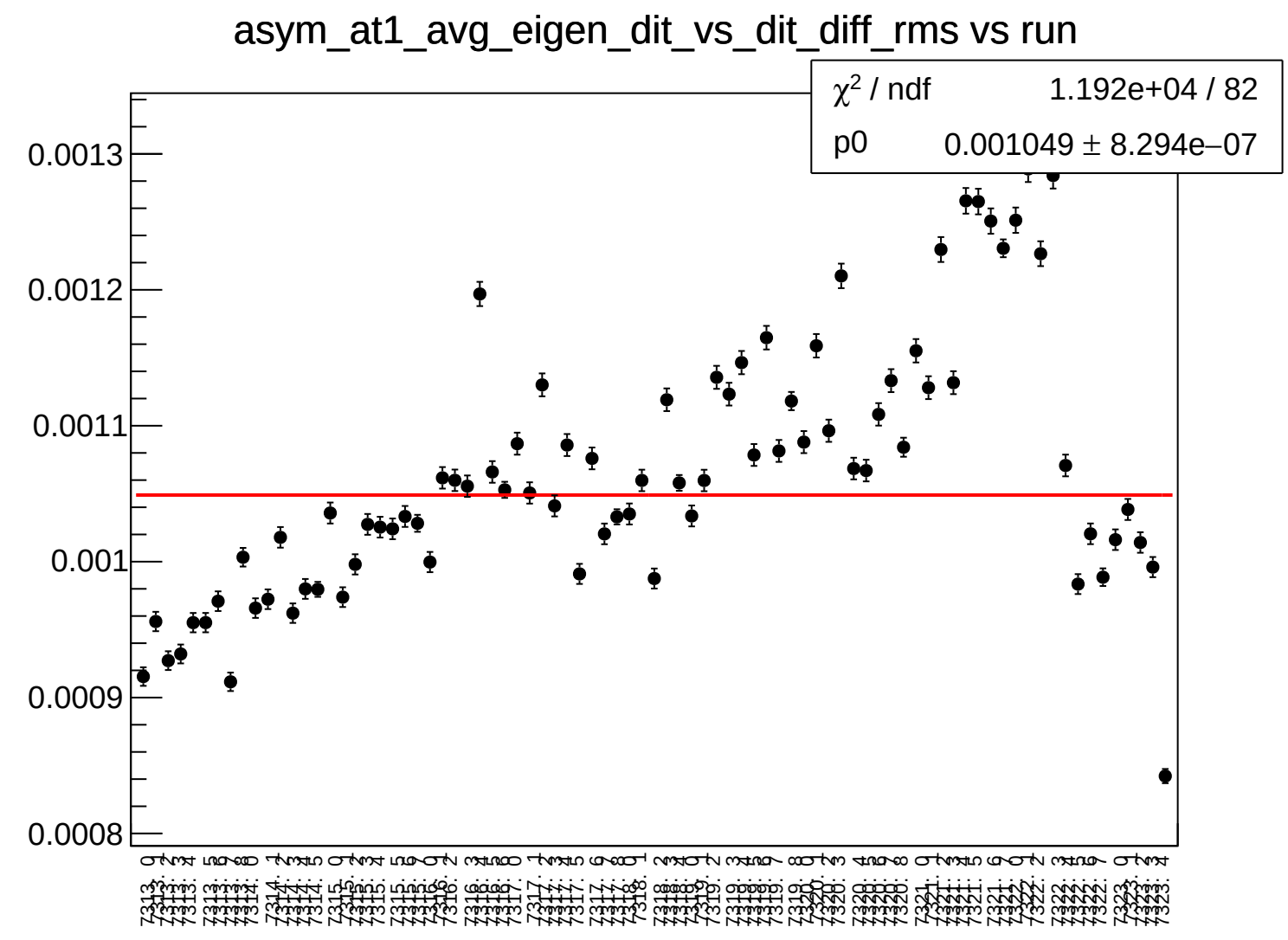

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.574e+05 / 82
p0 64.47 ± 0.0554
220
200
180
160
140
120
100
80
60
40
20

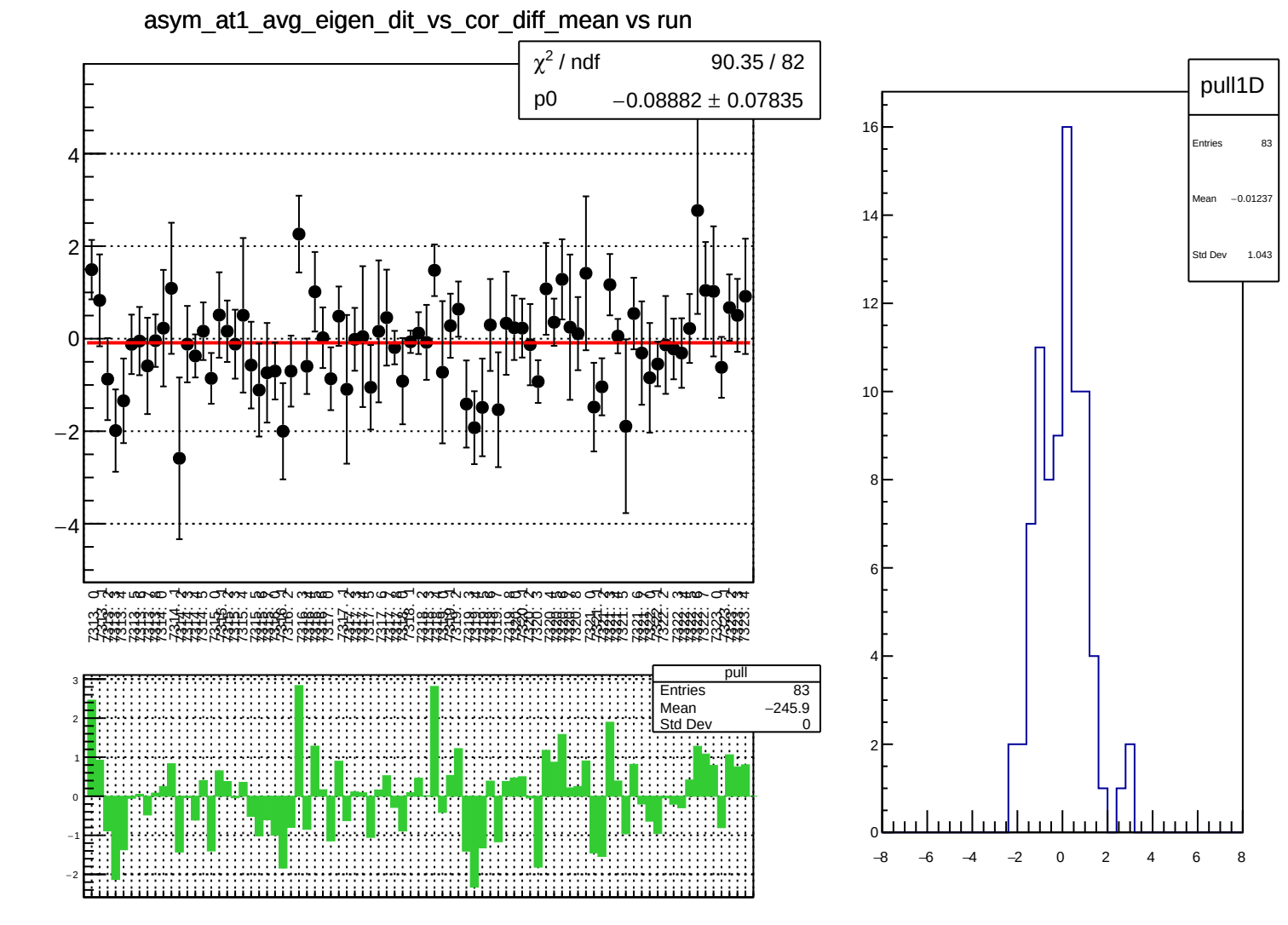

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.35 / 82
p0 −0.08882 ± 0.07835
pull
Entries 83
Mean −245.9
Std Dev 0
pull1D
Entries 83
Mean −0.01237
Std Dev 1.043

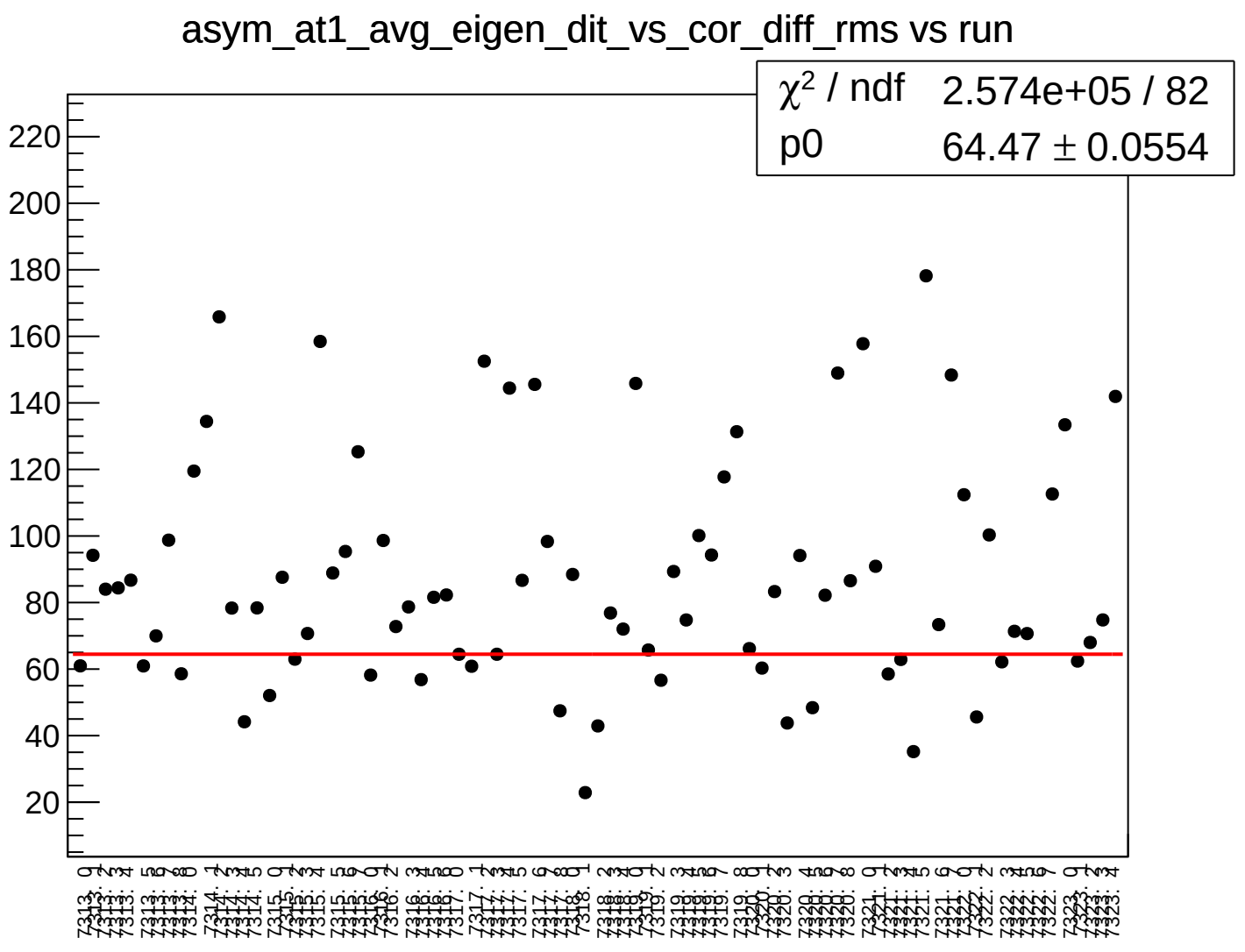

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.574e+05 / 82
p0 64.47 ± 0.0554
220
200
180
160
140
120
100
80
60
40
20

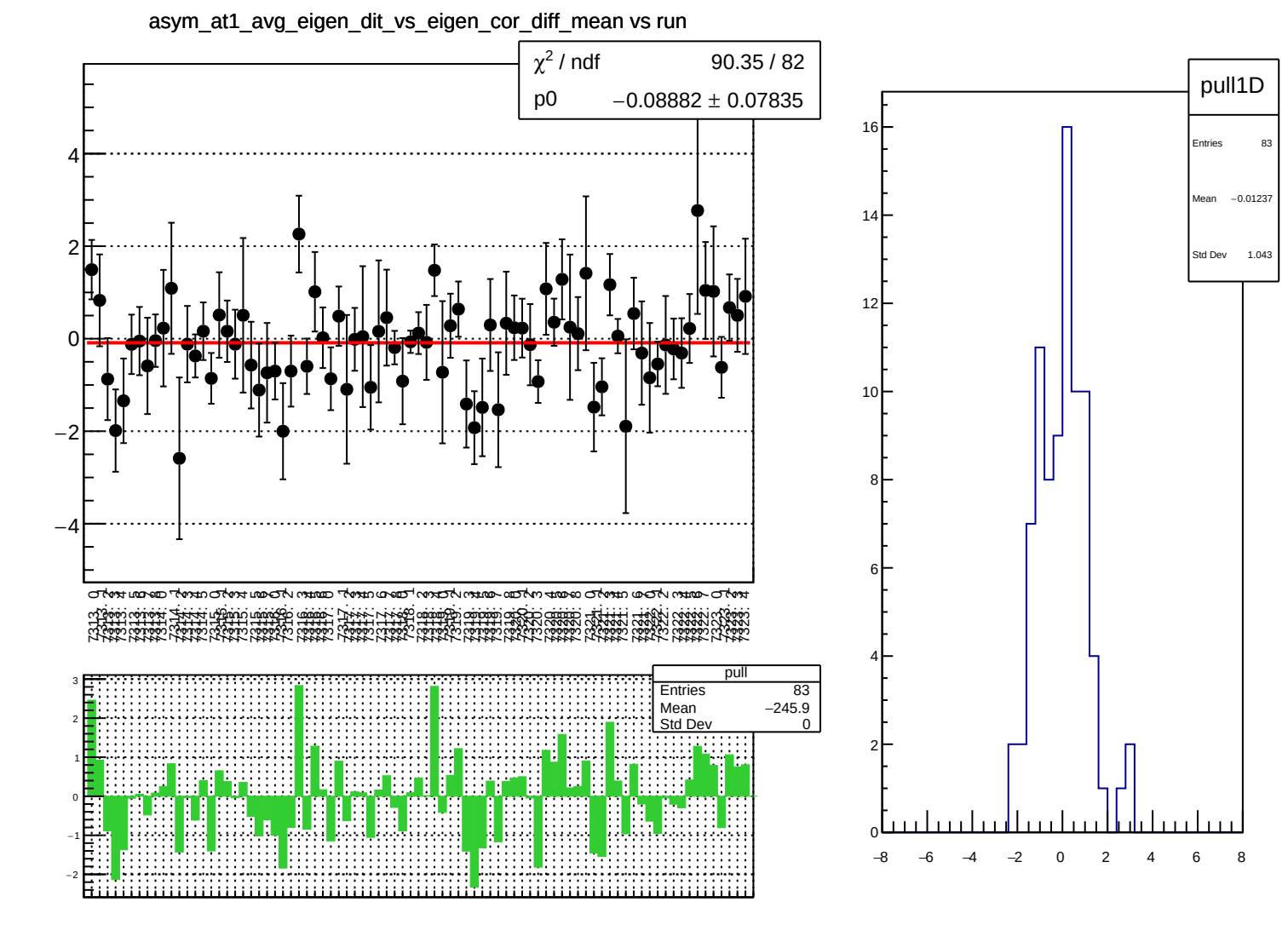

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.6 / 82
p0 1.291e−06 ± 1.173e−06
pull
Entries 83
Mean 553.9
Std Dev 0

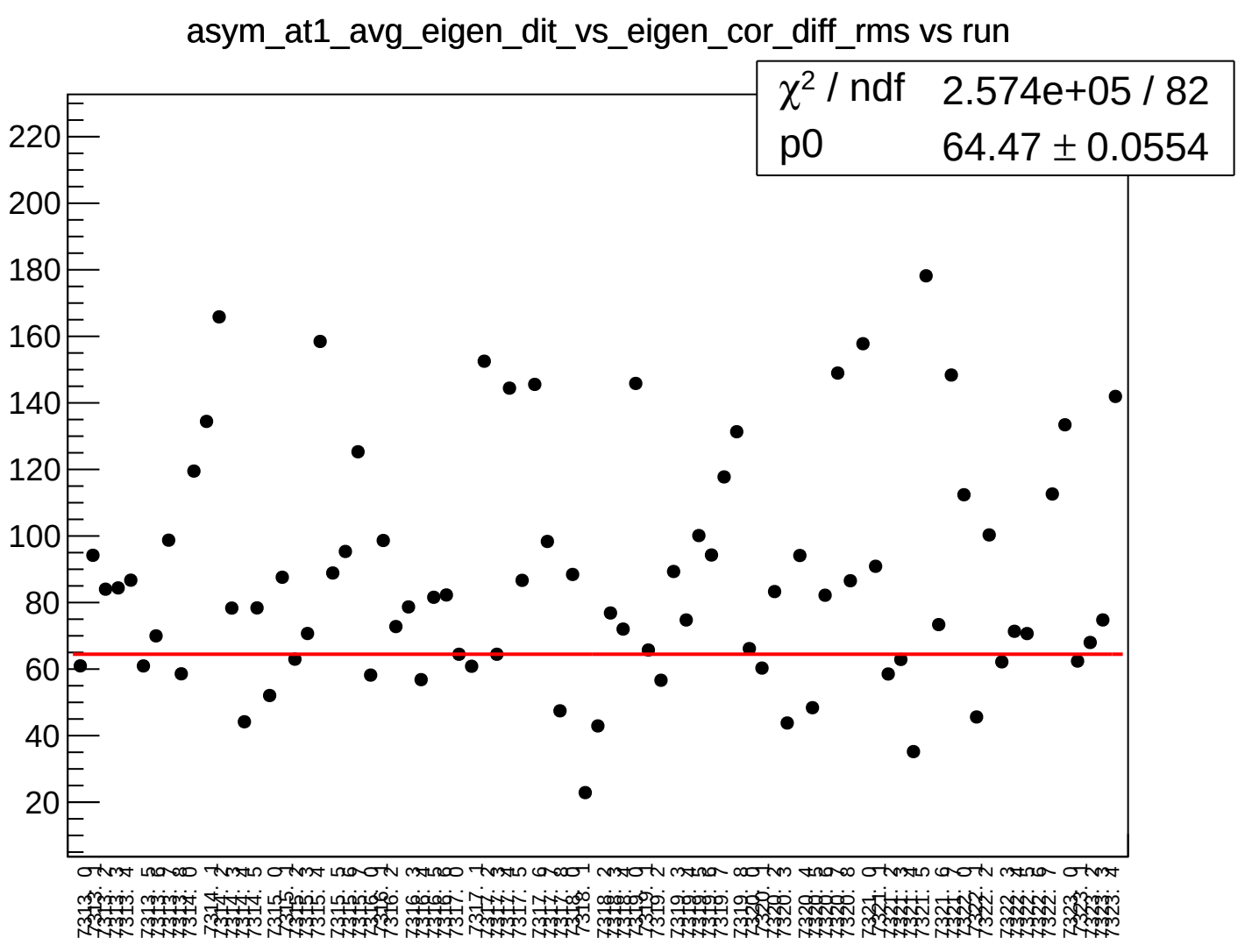

pull1D
Entries 83
Mean 0.007299
Std Dev 0.948

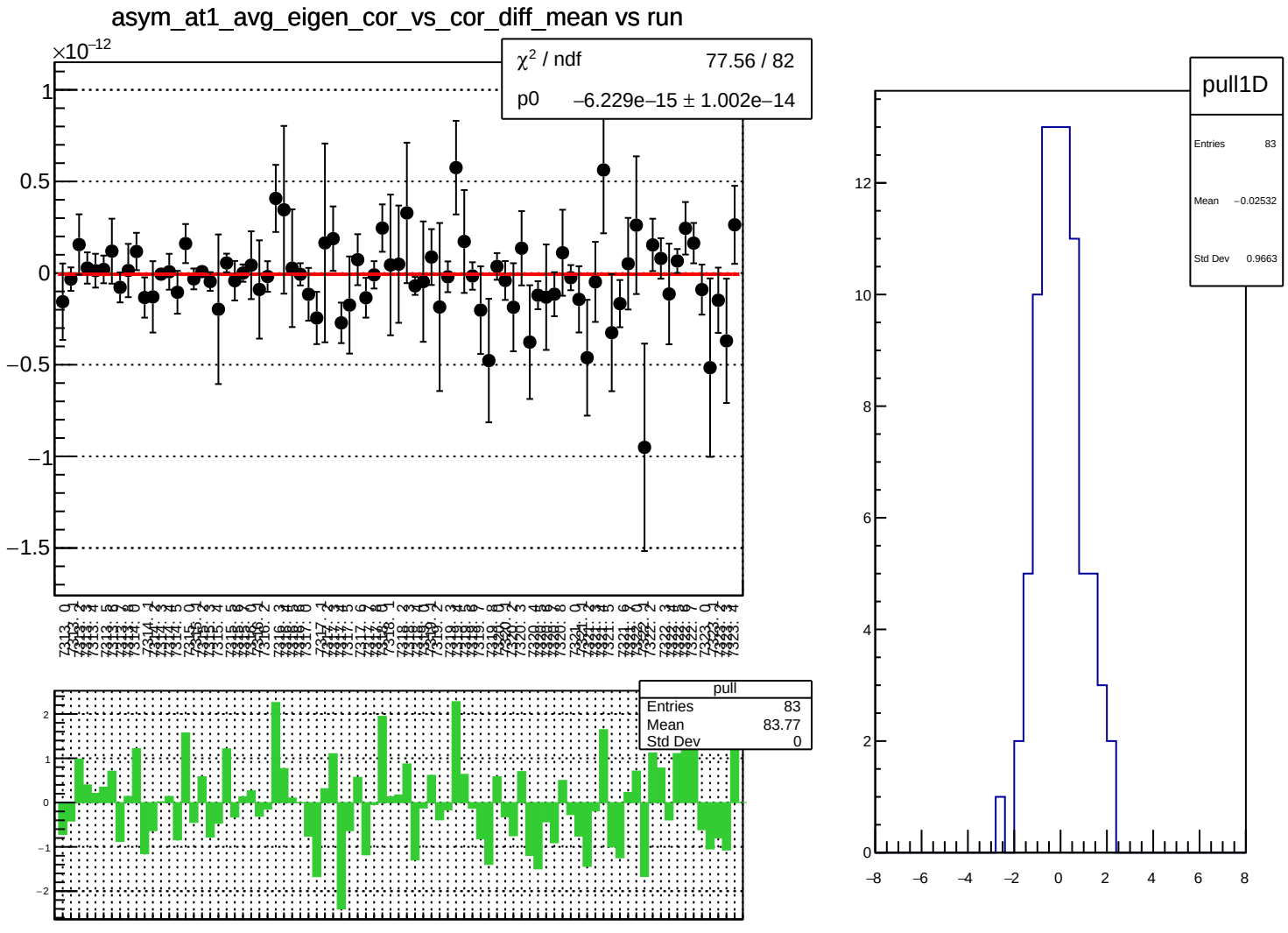

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.192e+04 / 82
p0 0.001049 ± 8.294e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

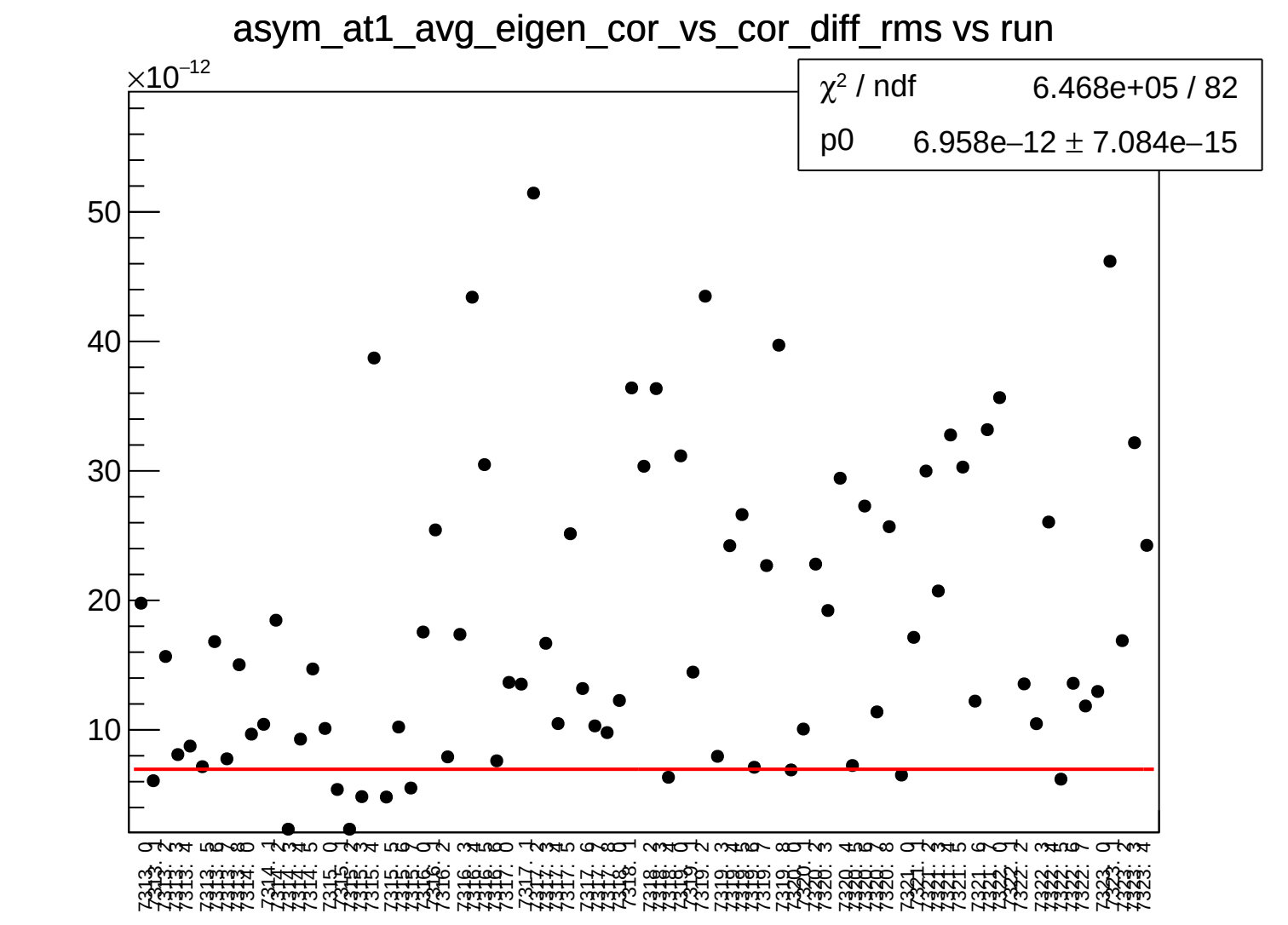

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.35 / 82
p0 −0.08882 ± 0.07835
pull
Entries 83
Mean −245.9
Std Dev 0
pull1D
Entries 83
Mean −0.01237
Std Dev 1.043

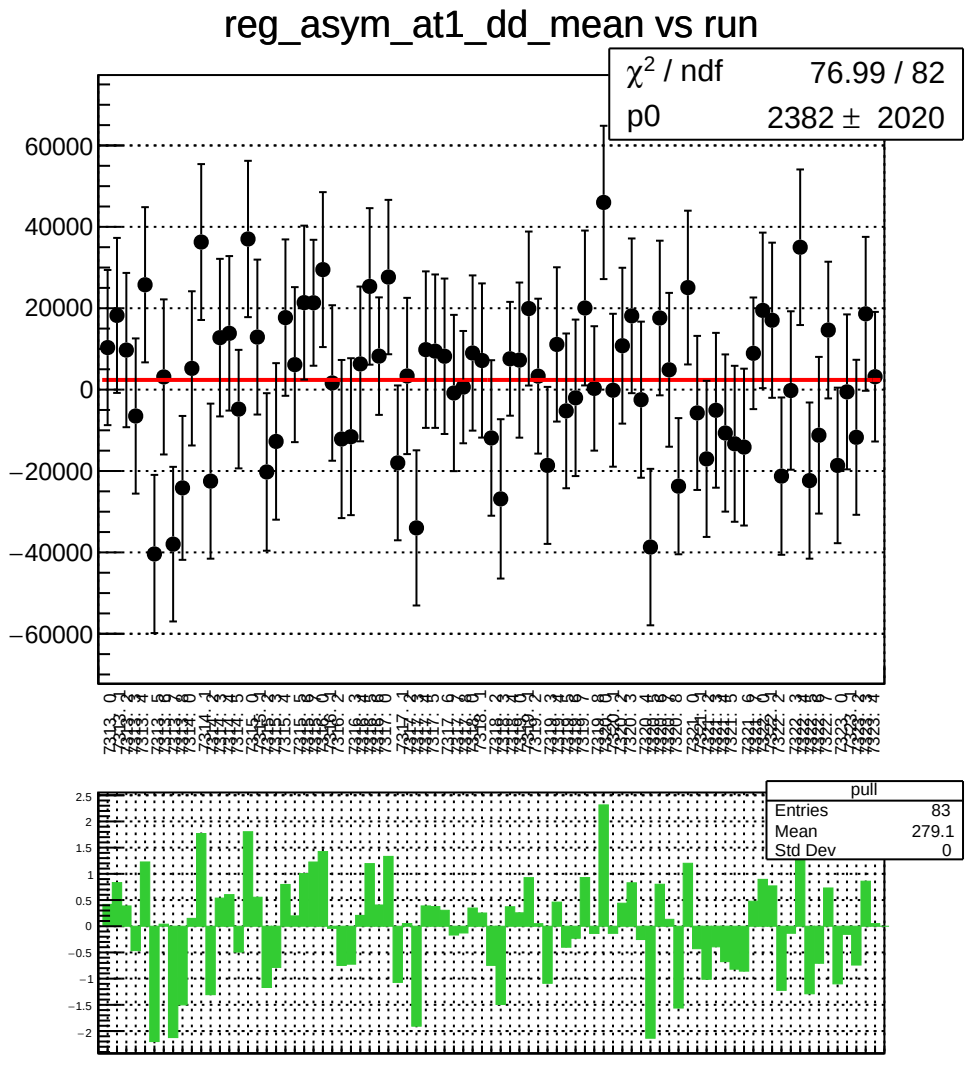

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.574e+05 / 82
p0 64.47 ± 0.0554
220
200
180
160
140
120
100
80
60
40
20

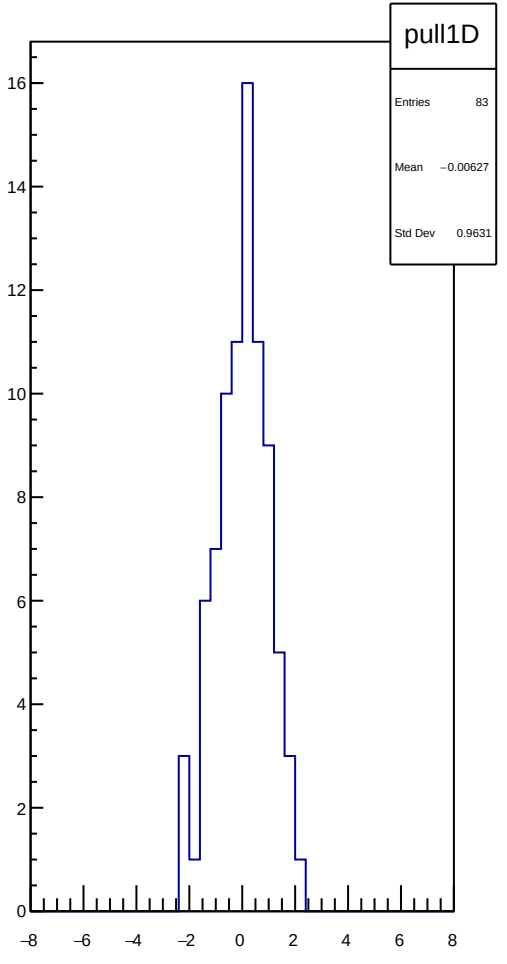

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.35 / 82
p0 −0.08882 ± 0.07835
pull
Entries 83
Mean −245.9
Std Dev 0
pull1D
Entries 83
Mean −0.01237
Std Dev 1.043

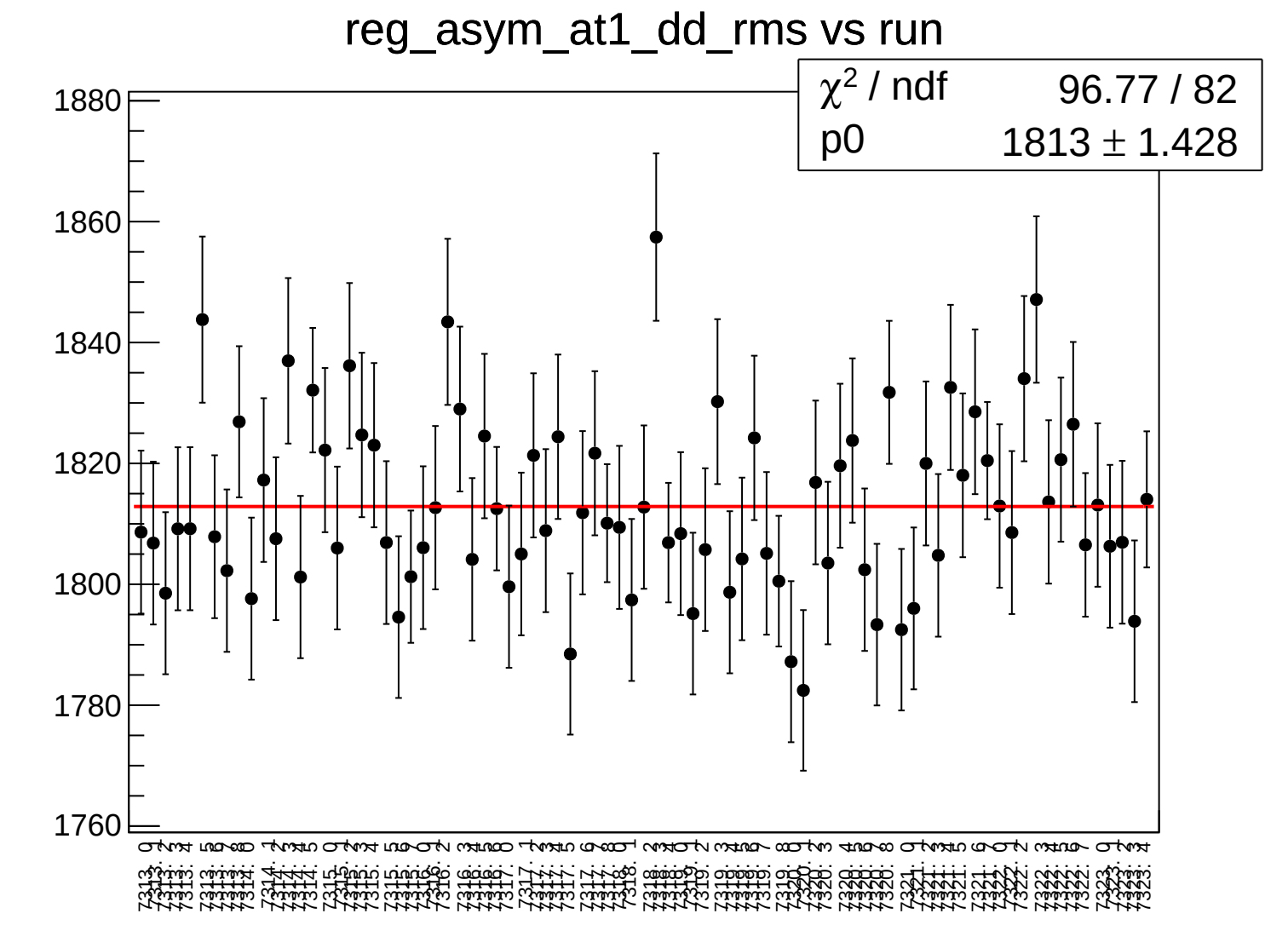

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.574e+05 / 82
p0 64.47 ± 0.0554
220
200
180
160
140
120
100
80
60
40
20

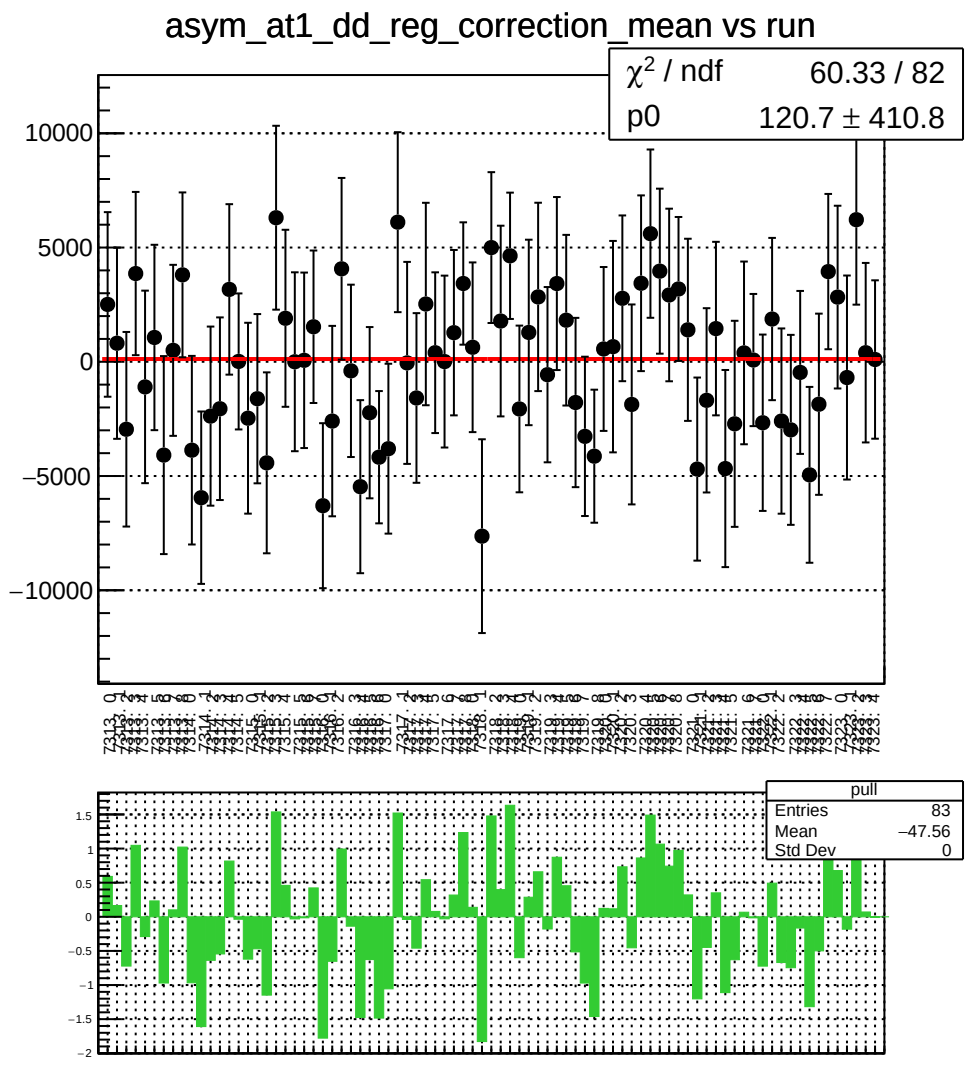

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.56 / 82
p0 −6.229e−15 ± 1.002e−14
pull
Entries 83
Mean 83.77
Std Dev 0
pull1D
Entries 83
Mean −0.02532
Std Dev 0.9663

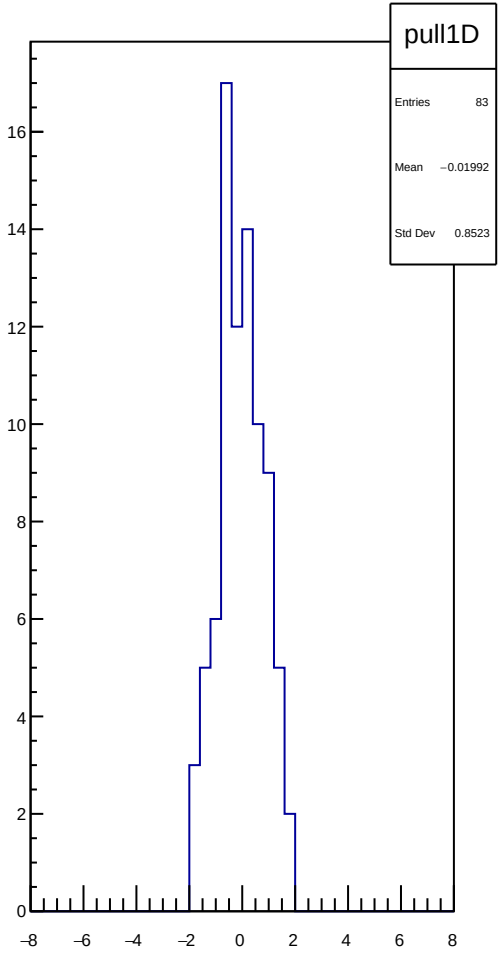

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.468e+05 / 82
p0 6.958e−12 ± 7.084e−15
50
40
30
20
10

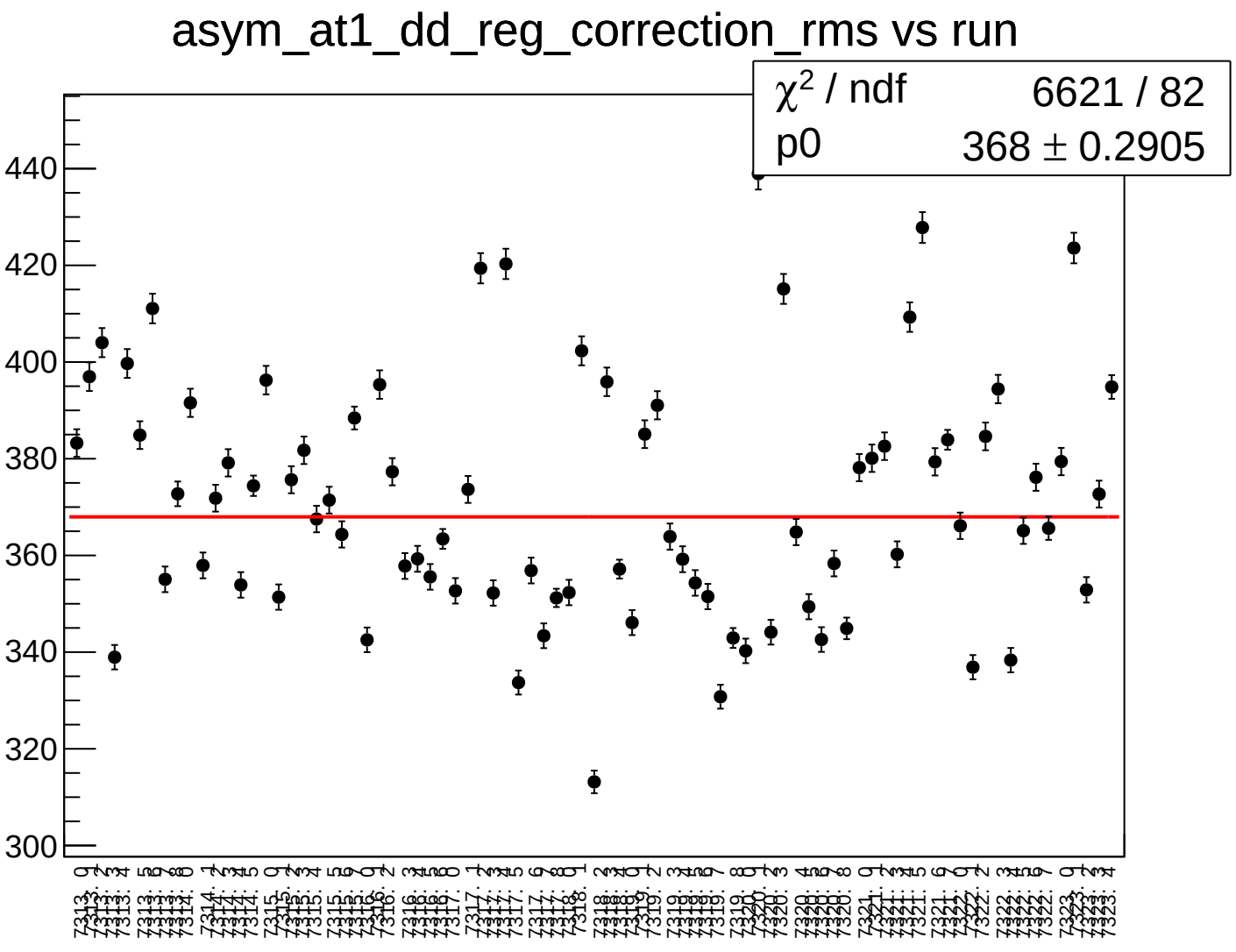

reg_asym_at1_dd_mean vs run
χ^2 / ndf 76.99 / 82
p0 2382 ± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 279.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

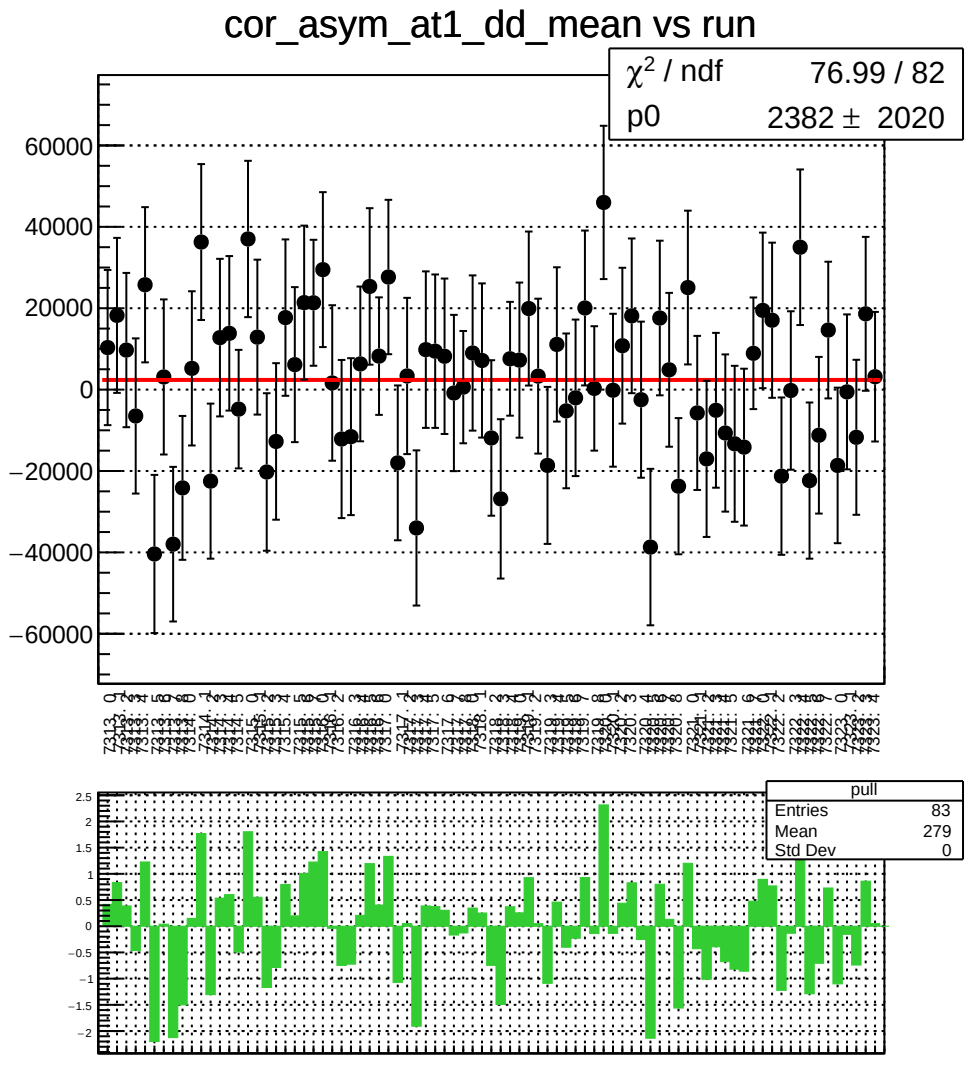

pull1D
Entries 83
Mean −0.00627
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

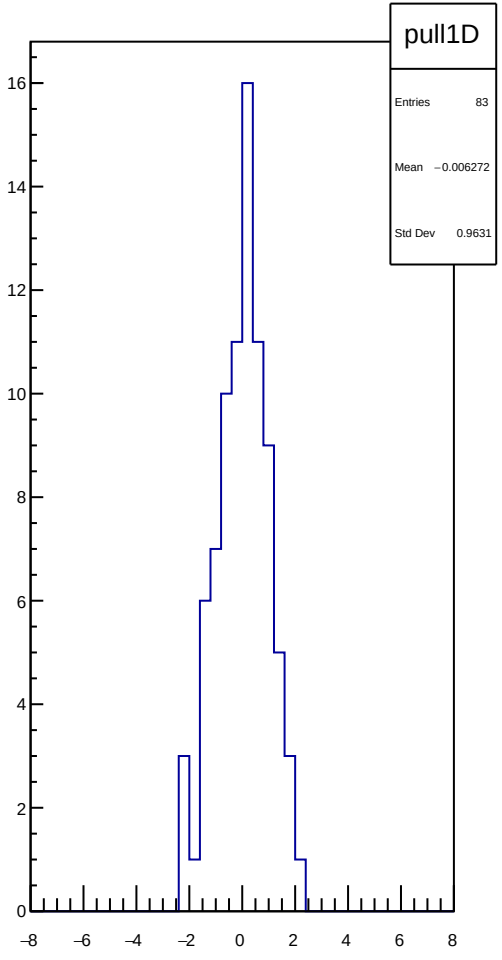

reg_asym_at1_dd_rms vs run
χ² / ndf 96.77 / 82
p0 1813 ± 1.428
1880
1860
1840
1820
1800
1780
1760

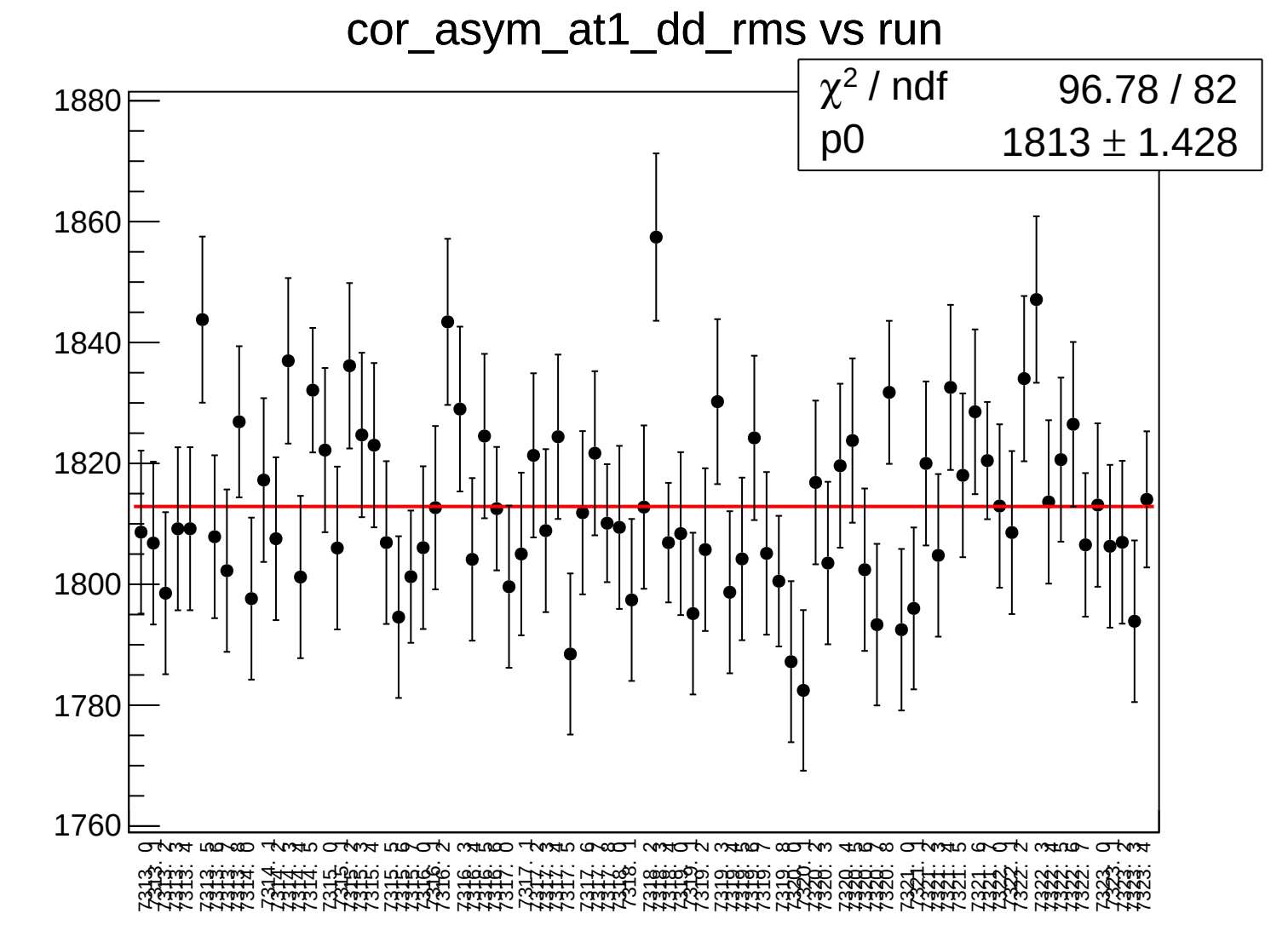

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 60.33 / 82
p0 120.7 ± 410.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −47.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

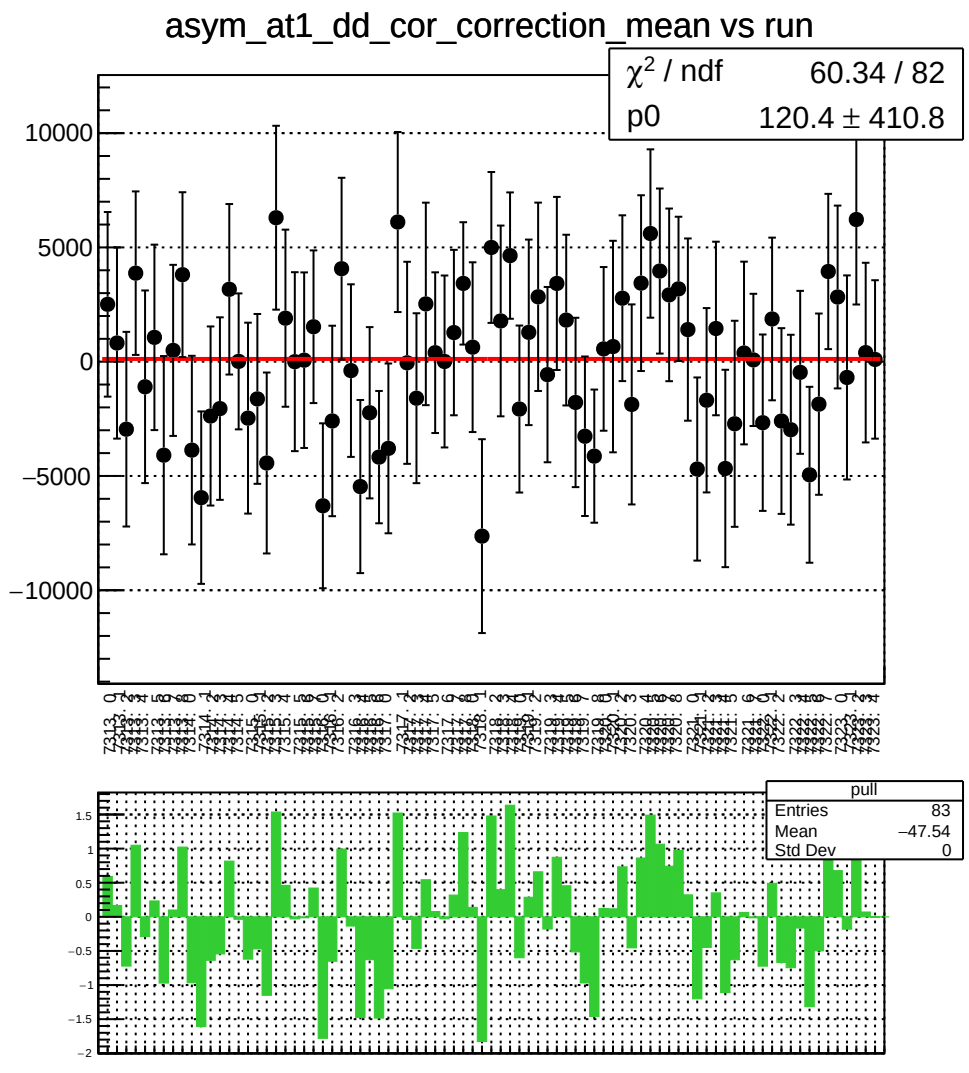

pull1D
Entries 83
Mean −0.01992
Std Dev 0.8523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

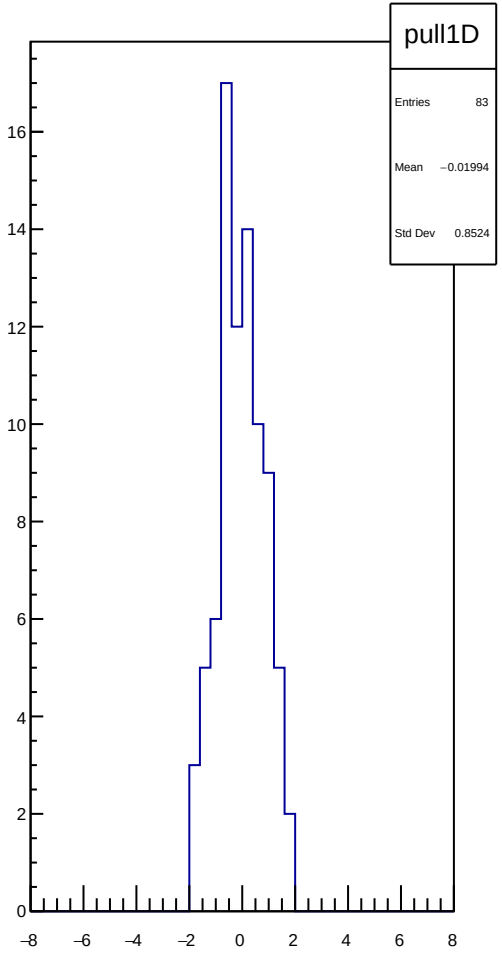

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 6621 / 82
p0 368 ± 0.2905
440
420
400
380
360
340
320
300

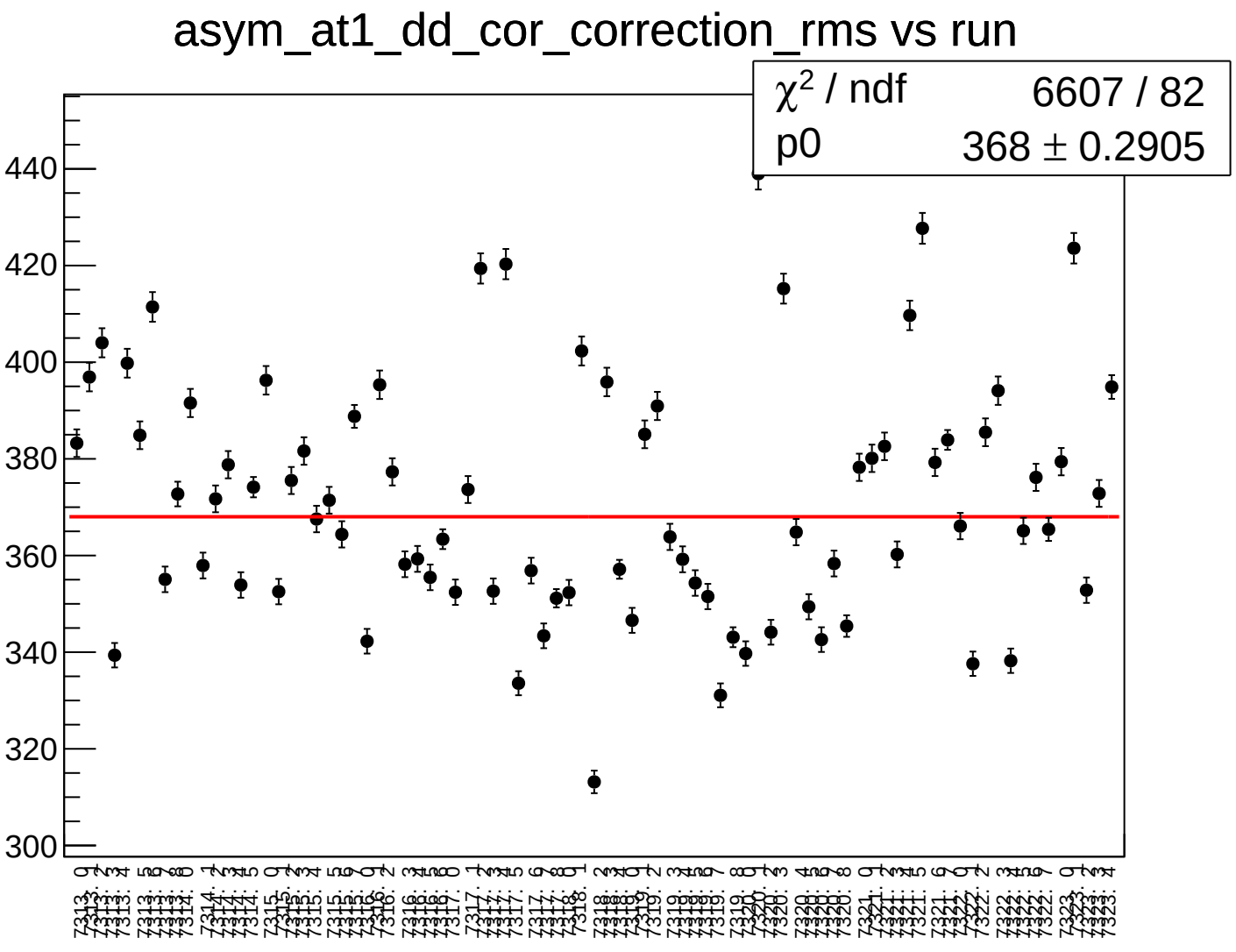

cor_asym_at1_dd_mean vs run
χ² / ndf 76.99 / 82
p0 2382 ± 2020
pull
Entries 83
Mean 279
Std Dev 0

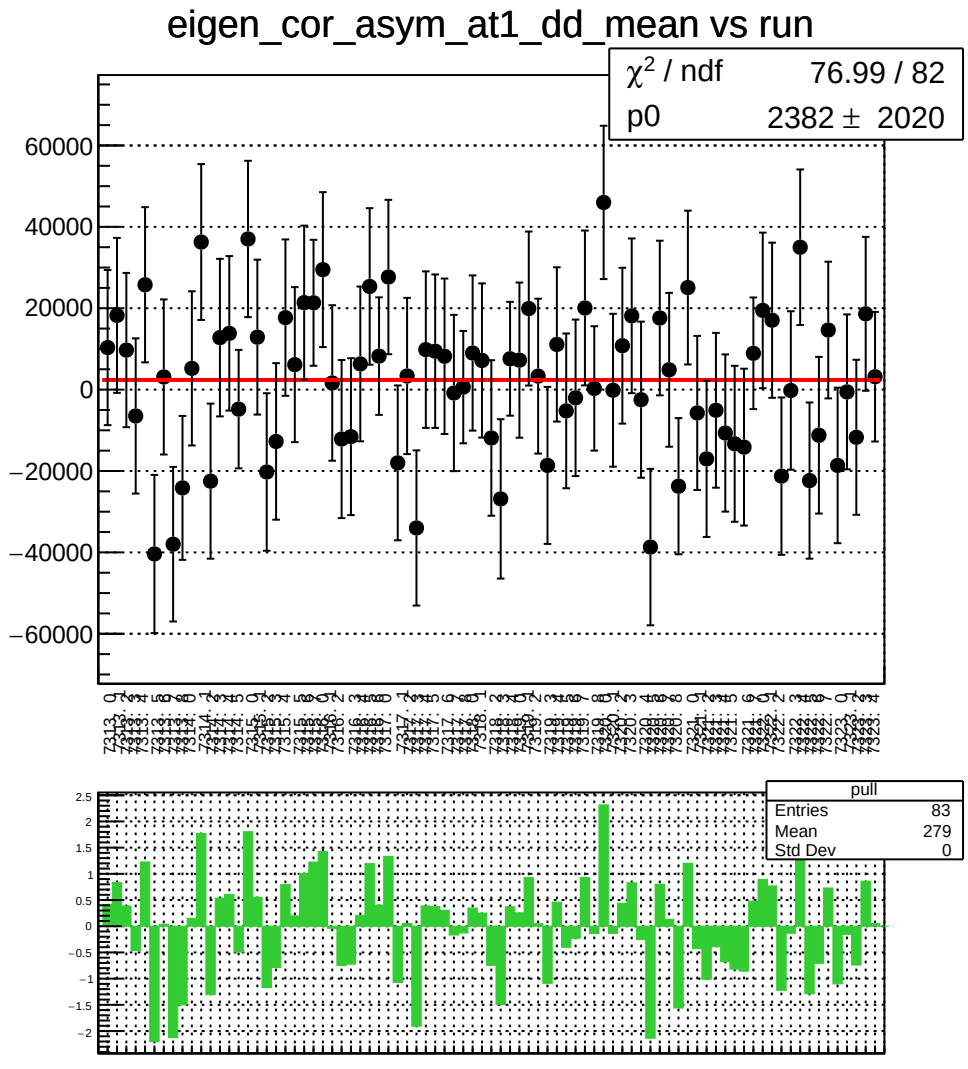

pull1D
Entries 83
Mean −0.006272
Std Dev 0.9631

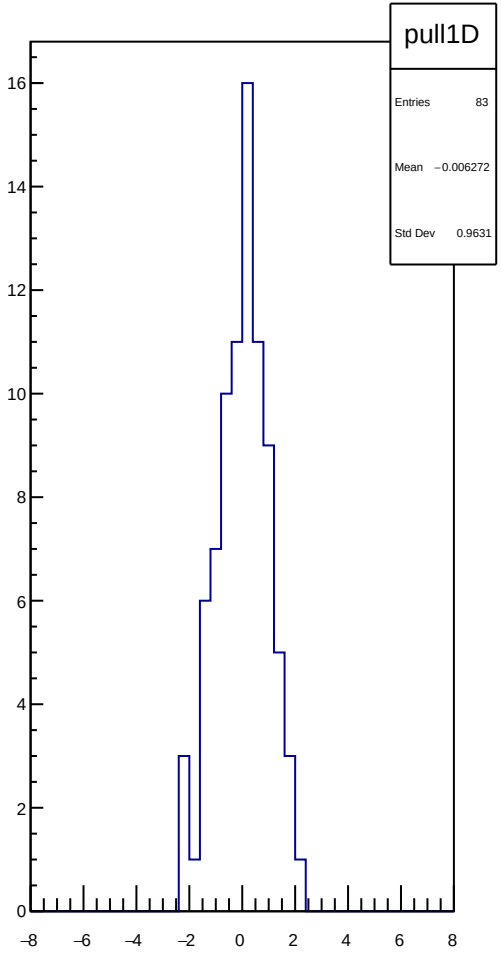

cor_asym_at1_dd_rms vs run
χ² / ndf 96.78 / 82
p0 1813 ± 1.428
1880
1860
1840
1820
1800
1780
1760

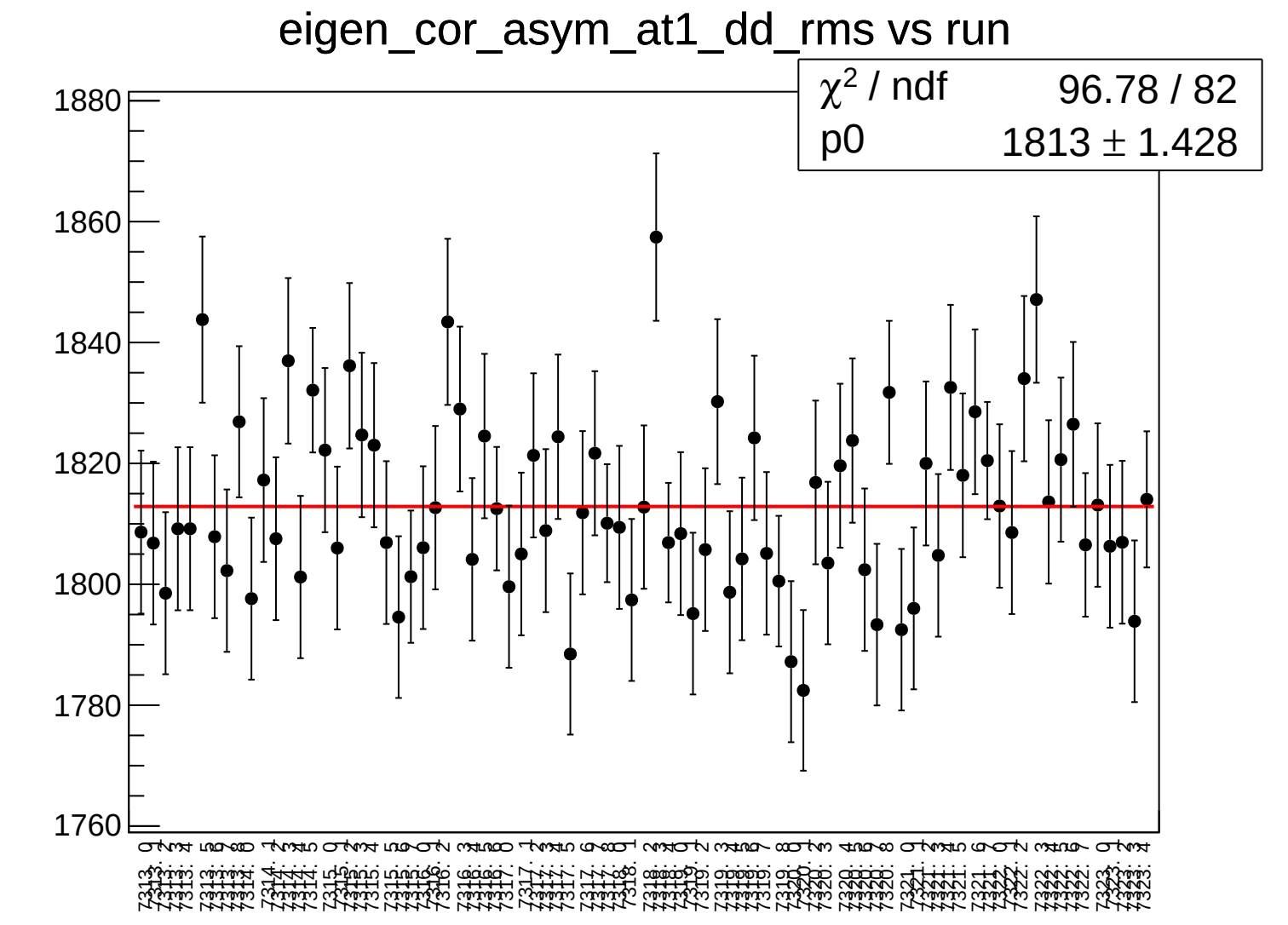

asym_at1_dd_cor_correction_mean vs run
χ^2 / ndf 60.34 / 82
p0 120.4 ± 410.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −47.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

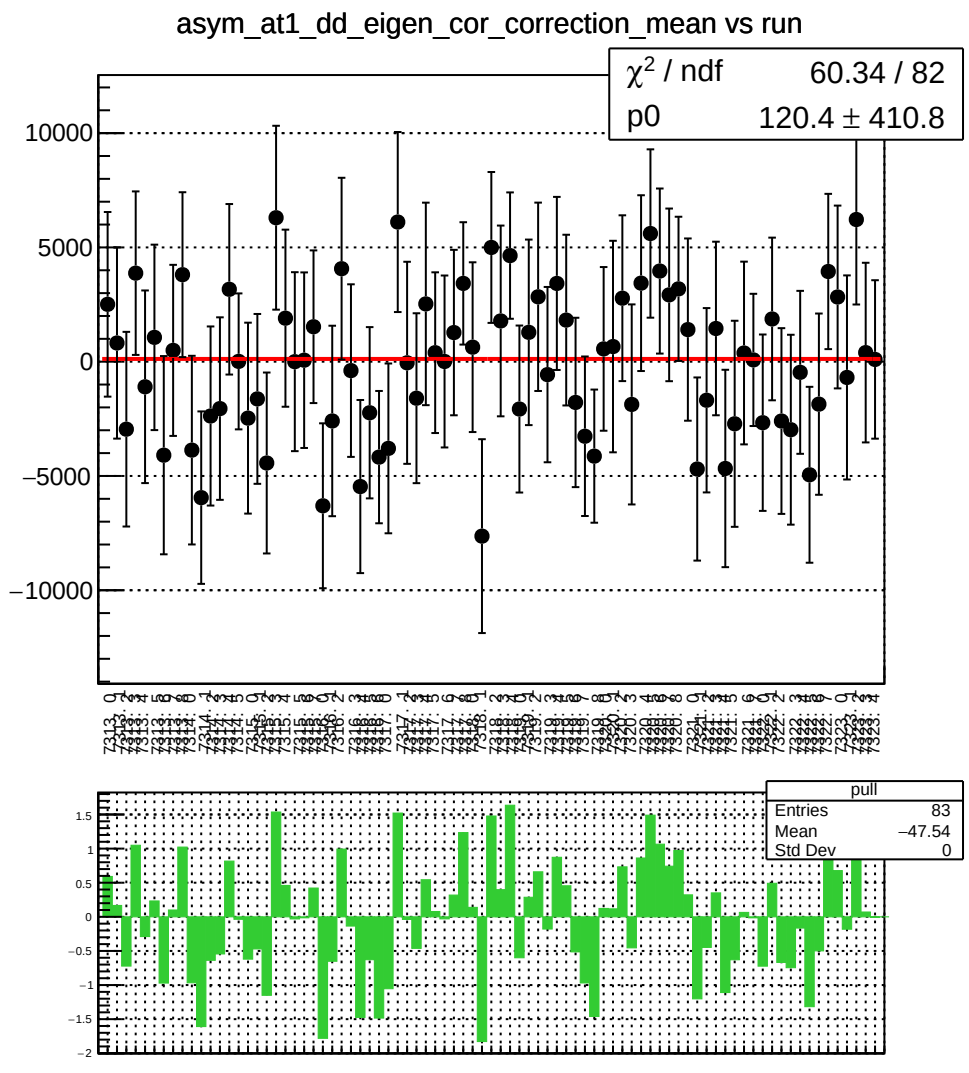

pull1D
Entries 83
Mean −0.01994
Std Dev 0.8524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

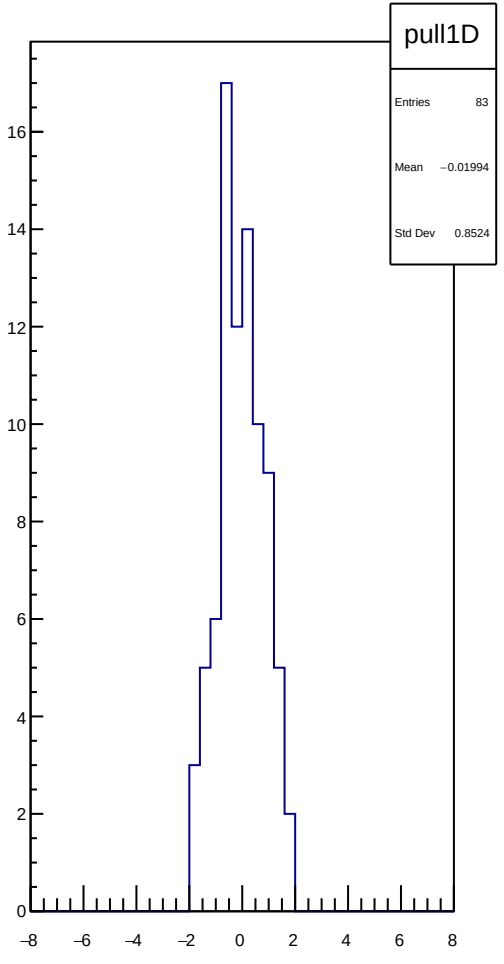

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 6607 / 82
p0 368 ± 0.2905
440
420
400
380
360
340
320
300

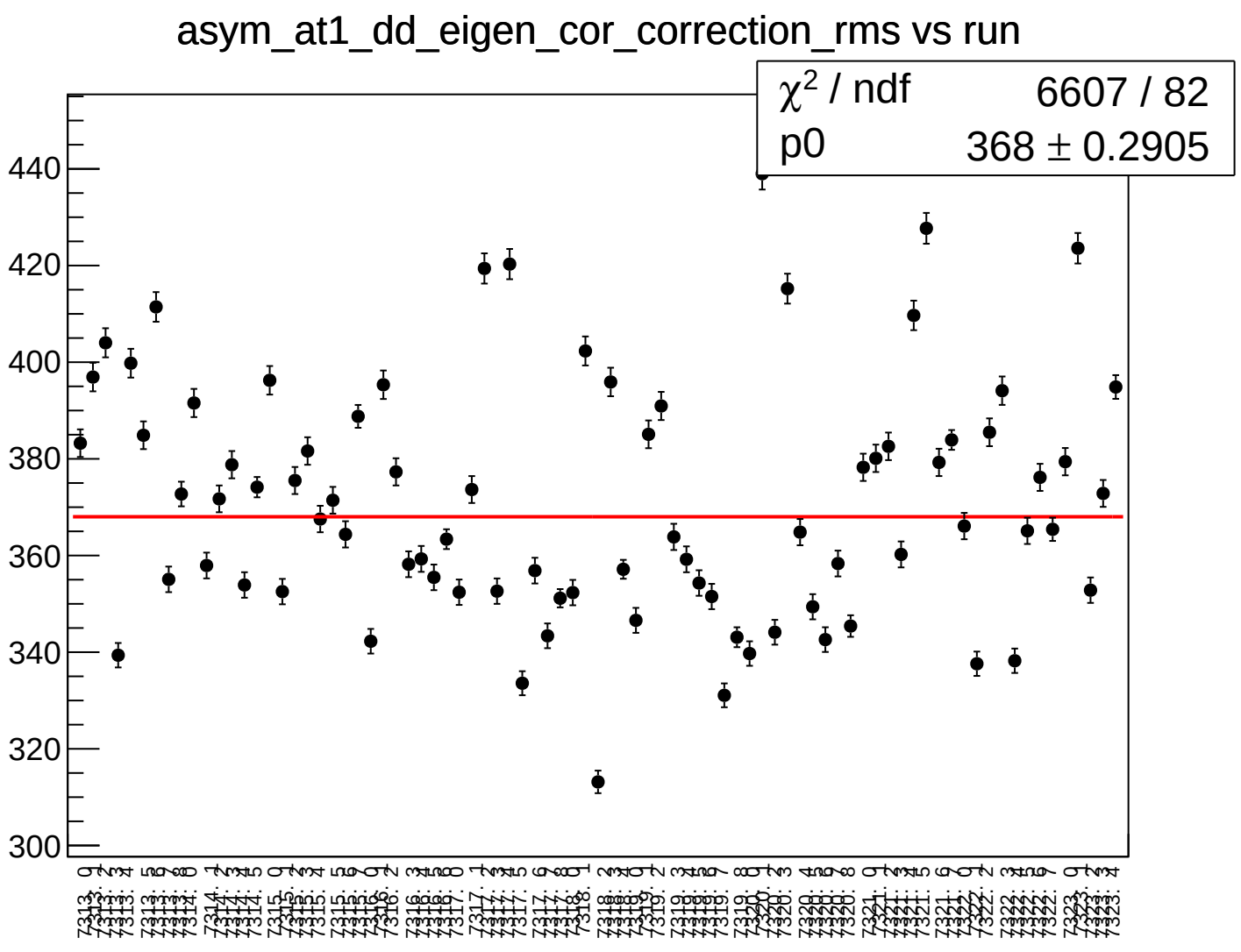

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 76.99 / 82
p0 2382 ± 2020
pull
Entries 83
Mean 279
Std Dev 0

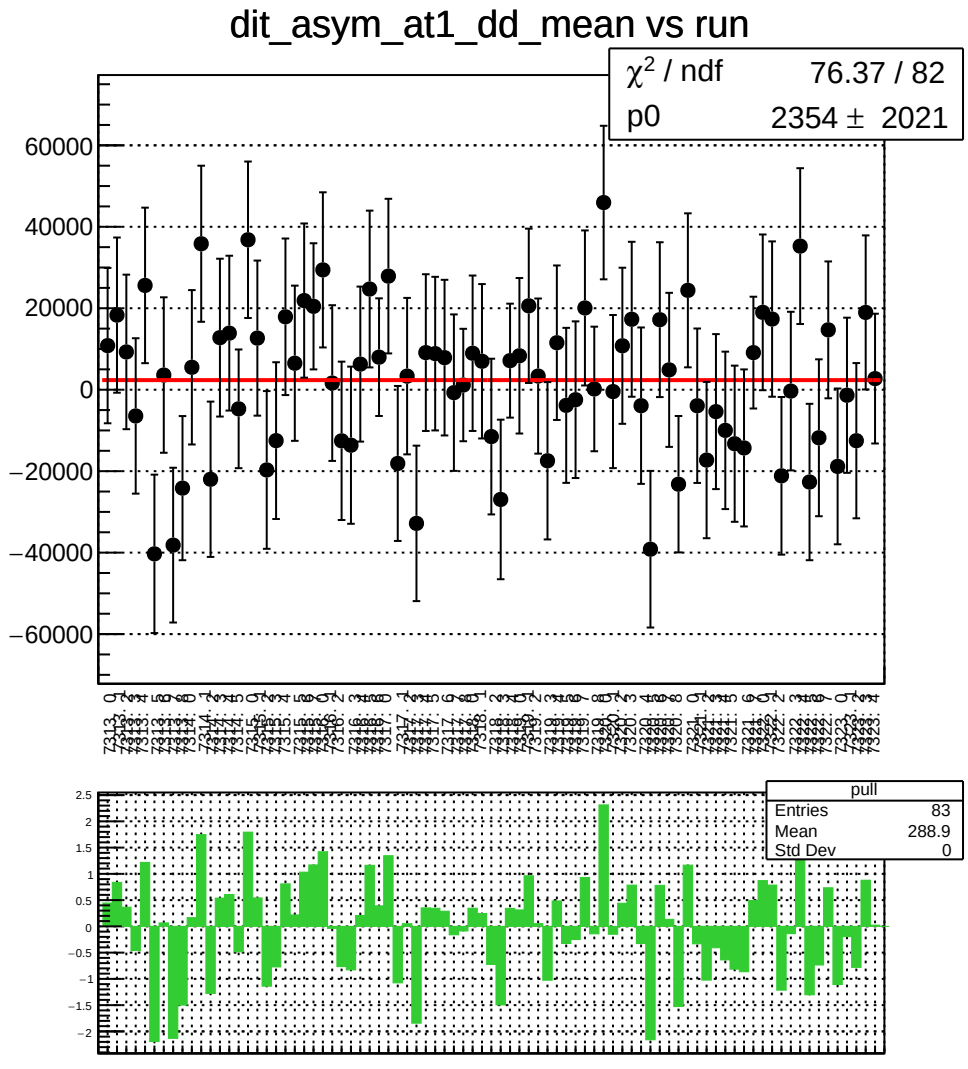

pull1D
Entries 83
Mean −0.006272
Std Dev 0.9631

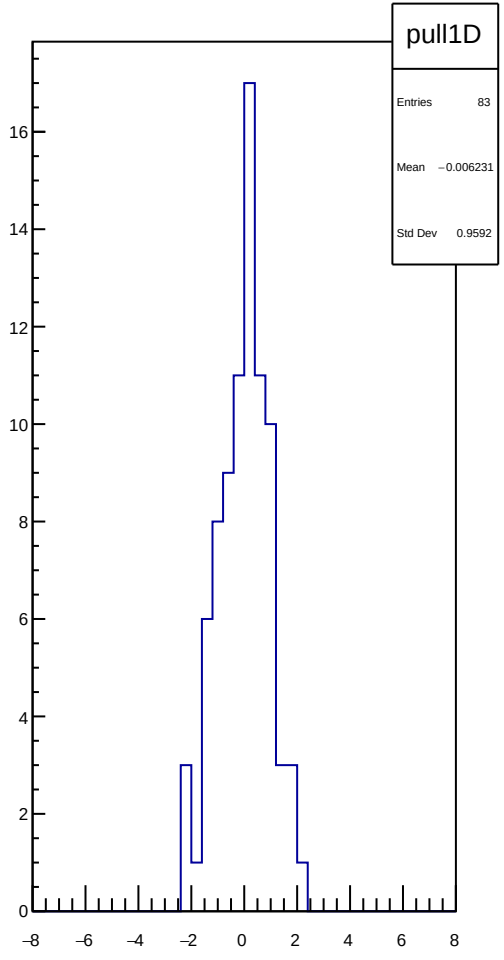

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 96.78 / 82
p0 1813 ± 1.428
1880
1860
1840
1820
1800
1780
1760

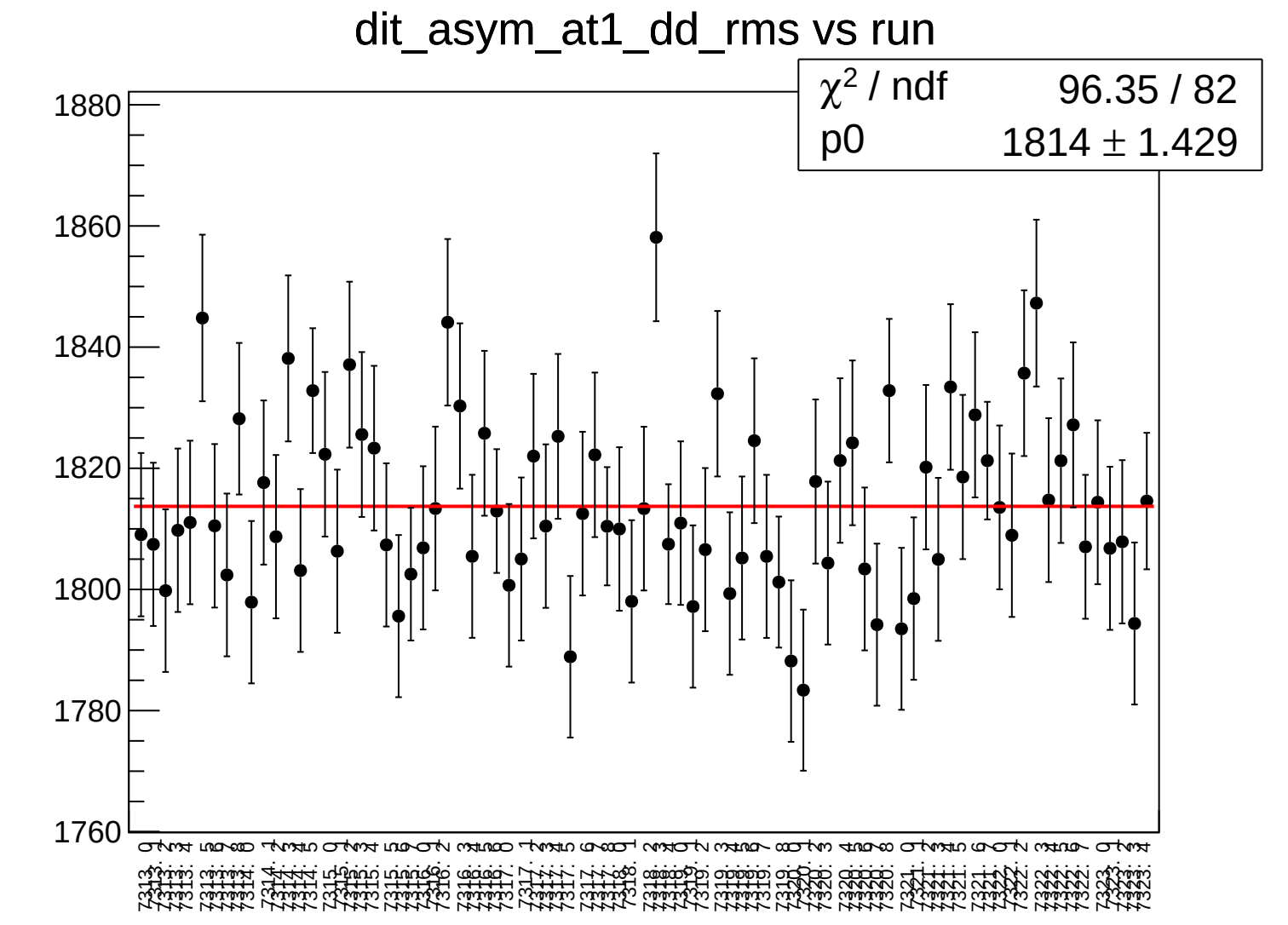

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.34 / 82
p0 120.4 ± 410.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −47.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

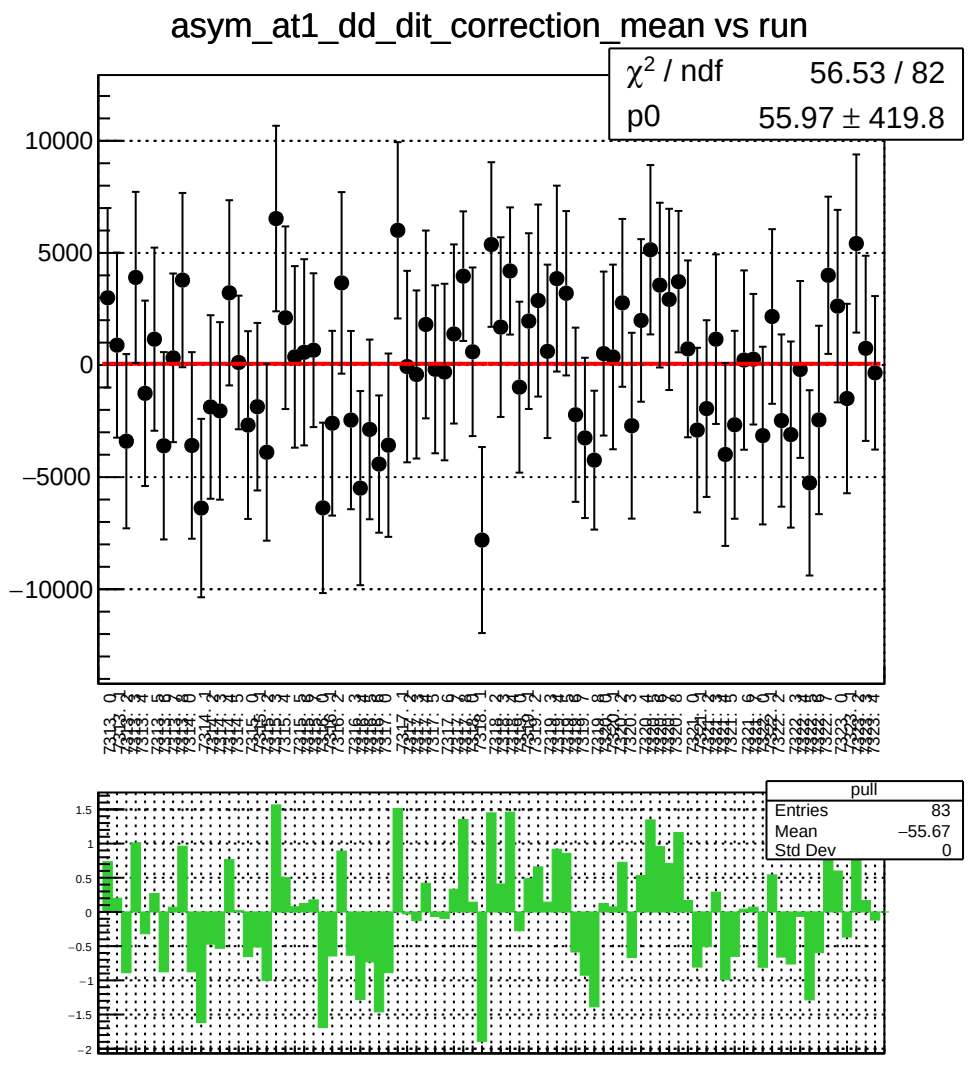

pull1D
Entries 83
Mean −0.01994
Std Dev 0.8524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

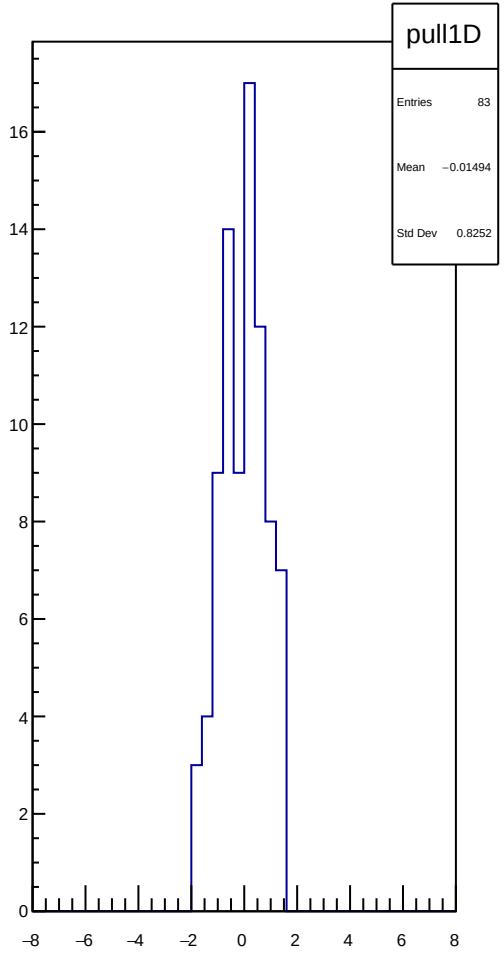

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6607 / 82
p0 368 ± 0.2905
440
420
400
380
360
340
320
300

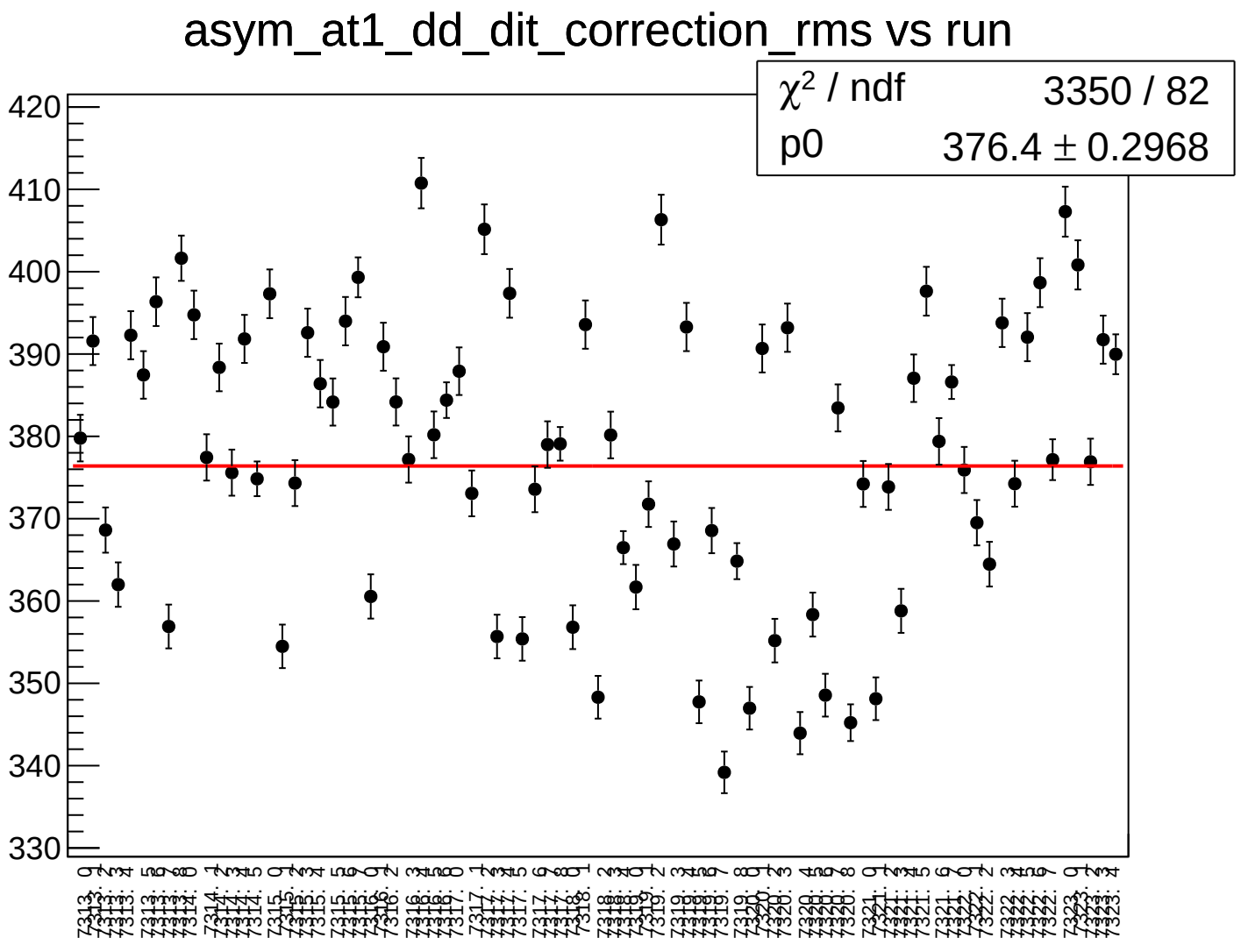

dit_asym_at1_dd_mean vs run
χ² / ndf 76.37 / 82
p0 2354 ± 2021
pull
Entries 83
Mean 288.9
Std Dev 0

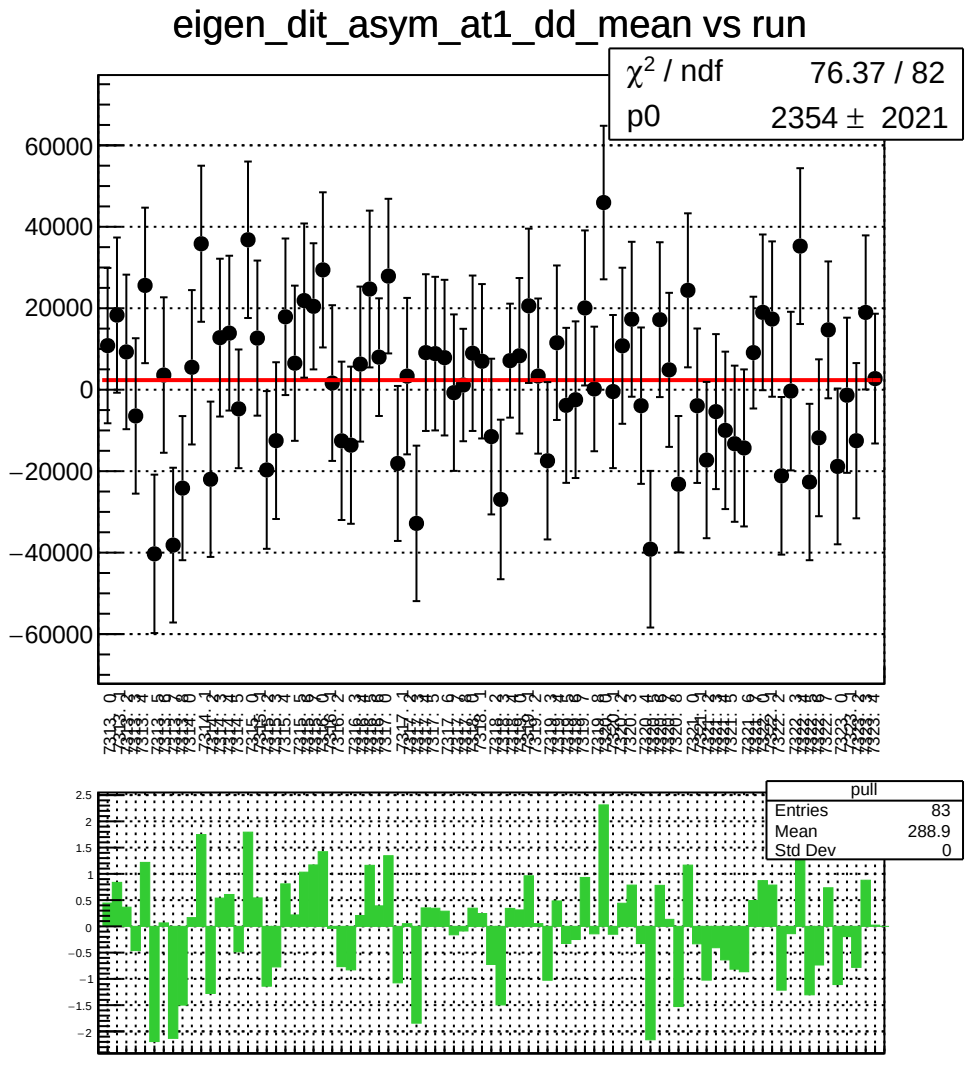

pull1D
Entries 83
Mean −0.006231
Std Dev 0.9592

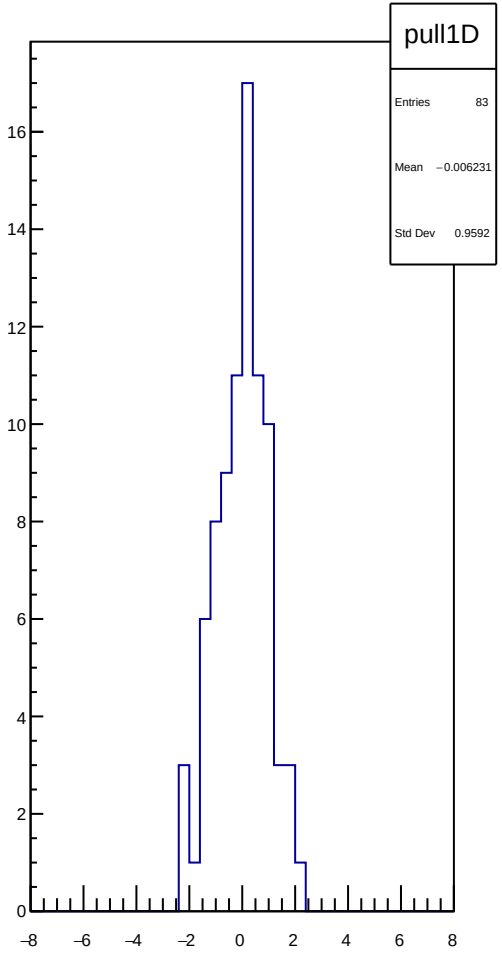

dit_asym_at1_dd_rms vs run
χ² / ndf 96.35 / 82
p0 1814 ± 1.429
1880
1860
1840
1820
1800
1780
1760

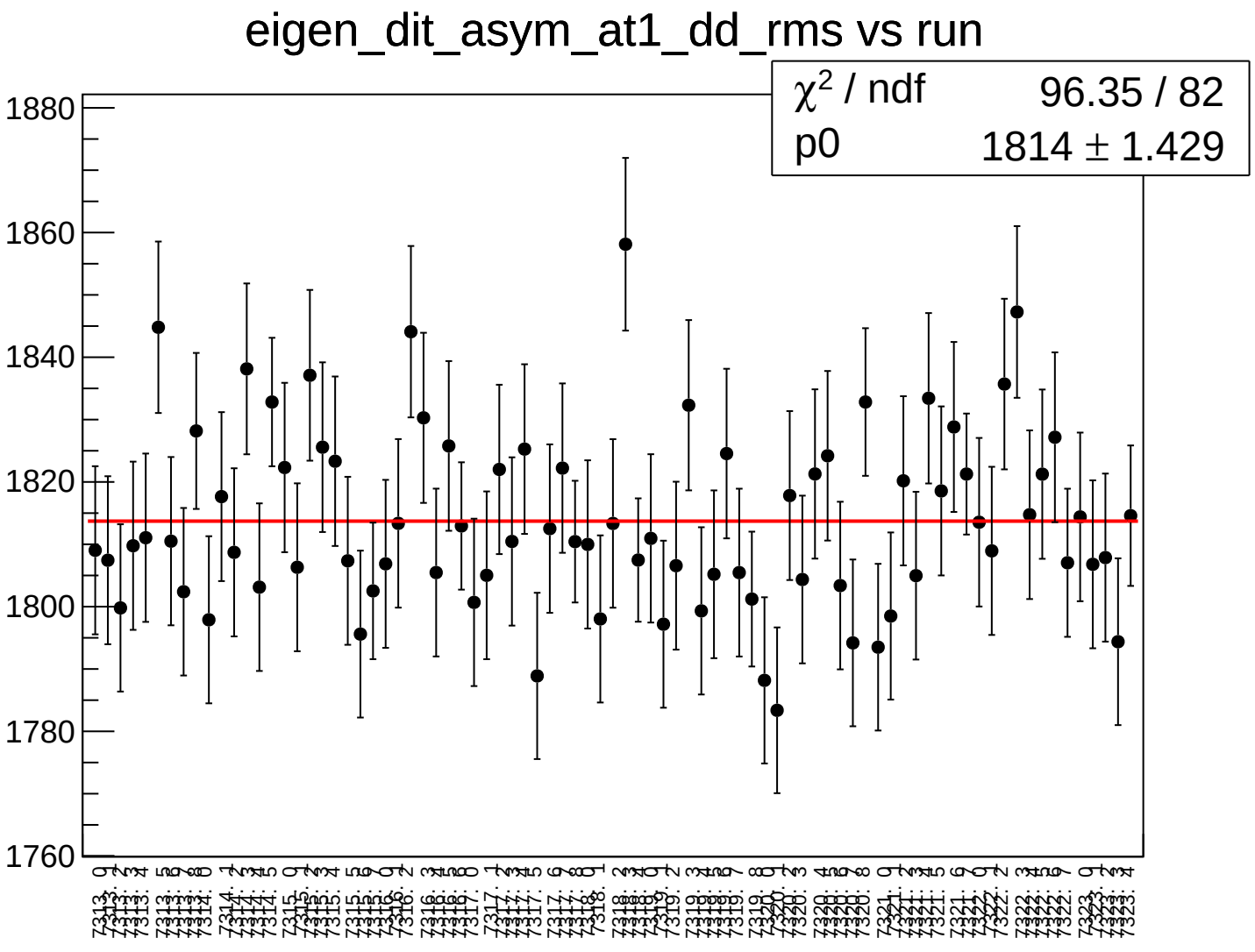

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 56.53 / 82
p0 55.97 ± 419.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −55.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

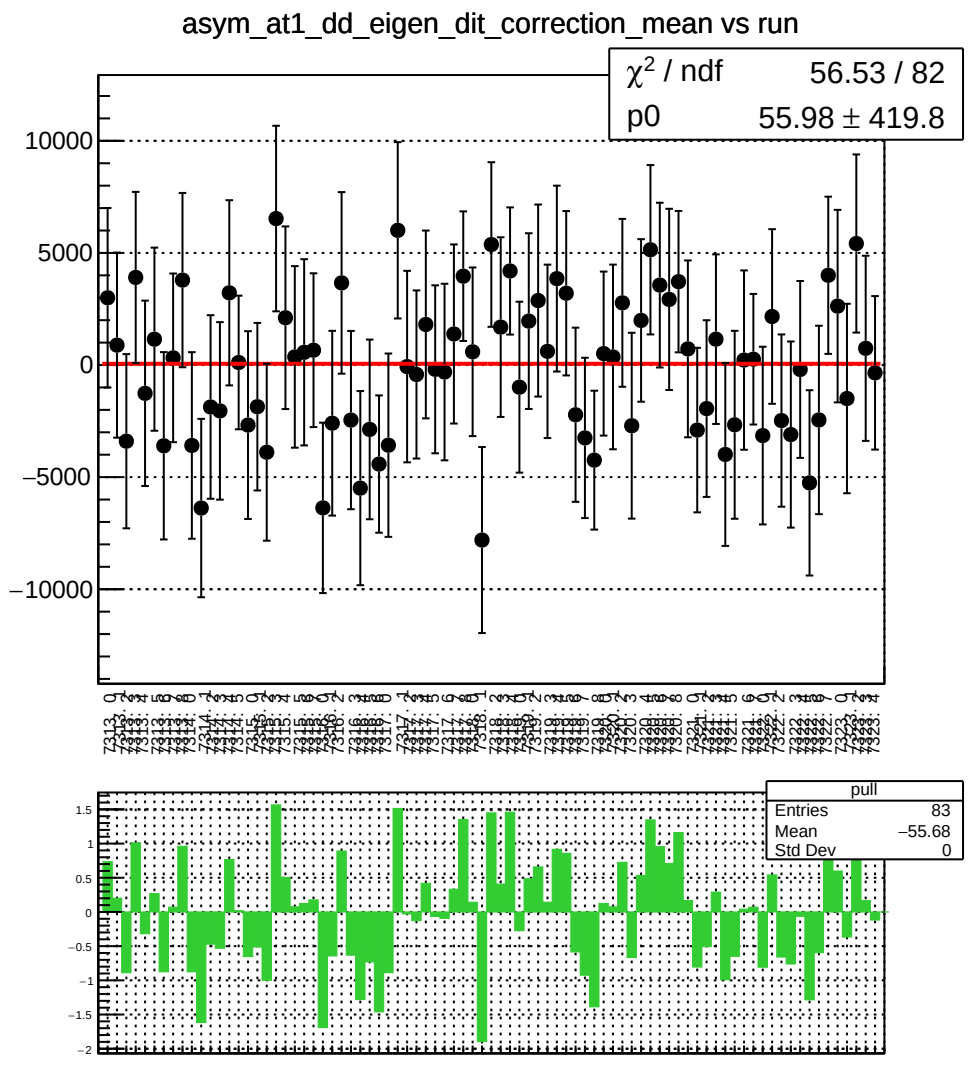

pull1D
Entries 83
Mean −0.01494
Std Dev 0.8252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

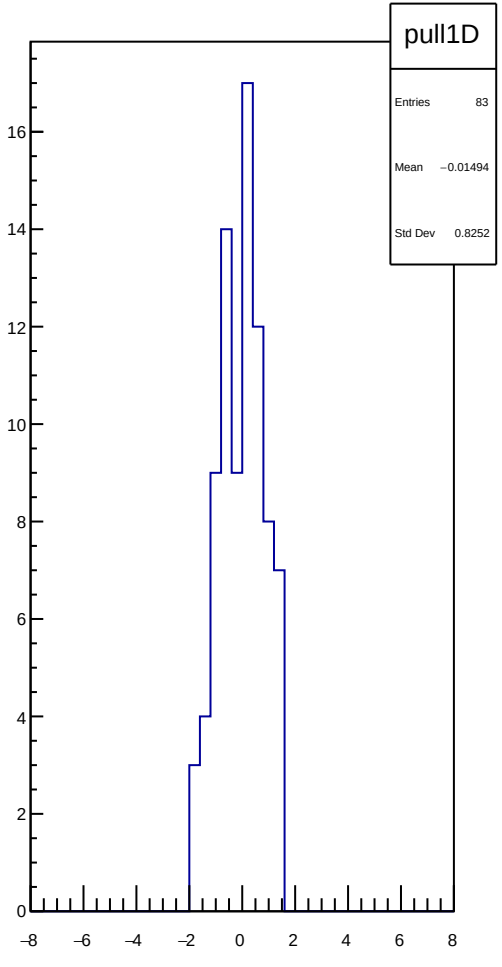

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3350 / 82
p0 376.4 ± 0.2968
420
410
400
390
380
370
360
350
340
330

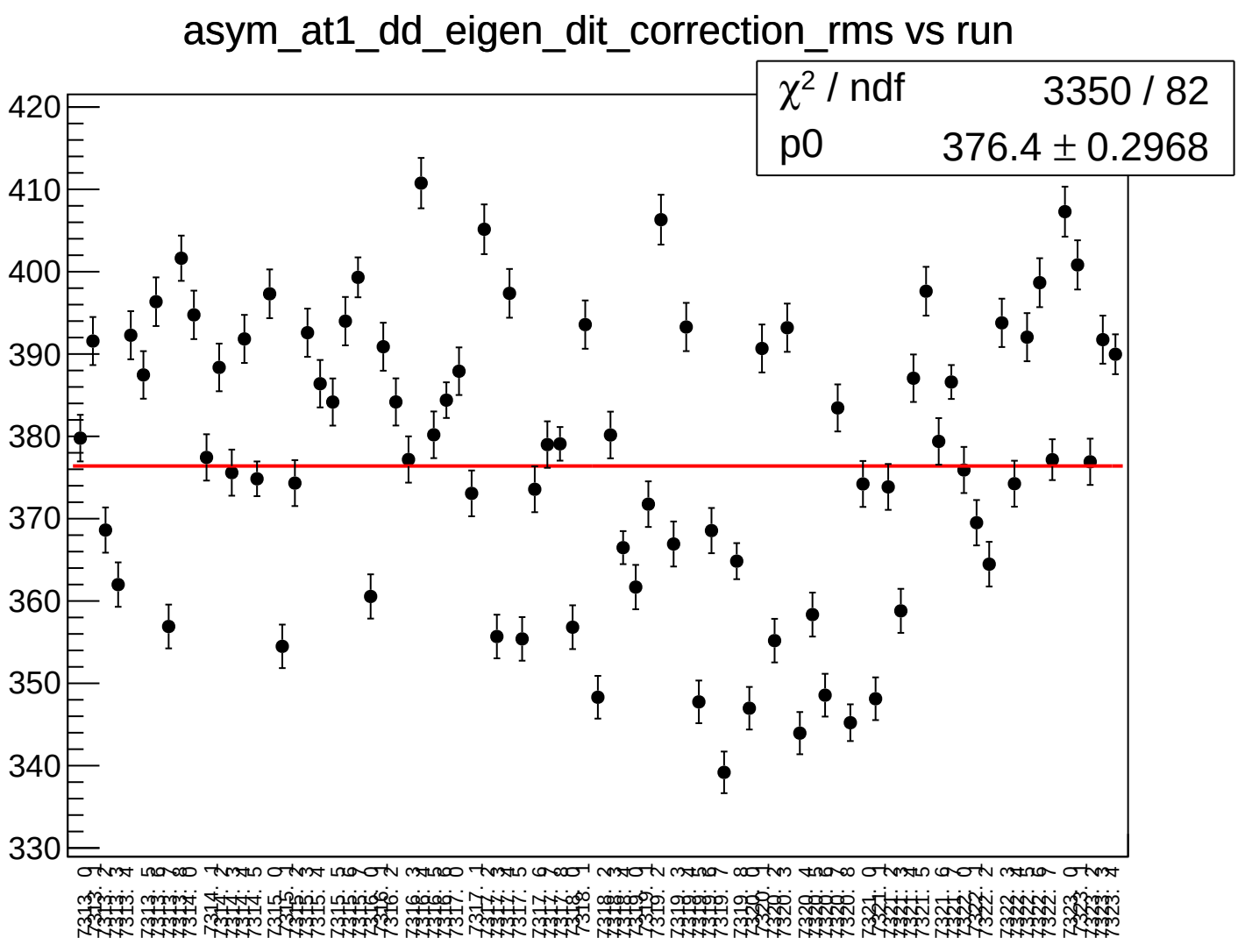

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 76.37 / 82
p0 2354 ± 2021
pull
Entries 83
Mean 288.9
Std Dev 0

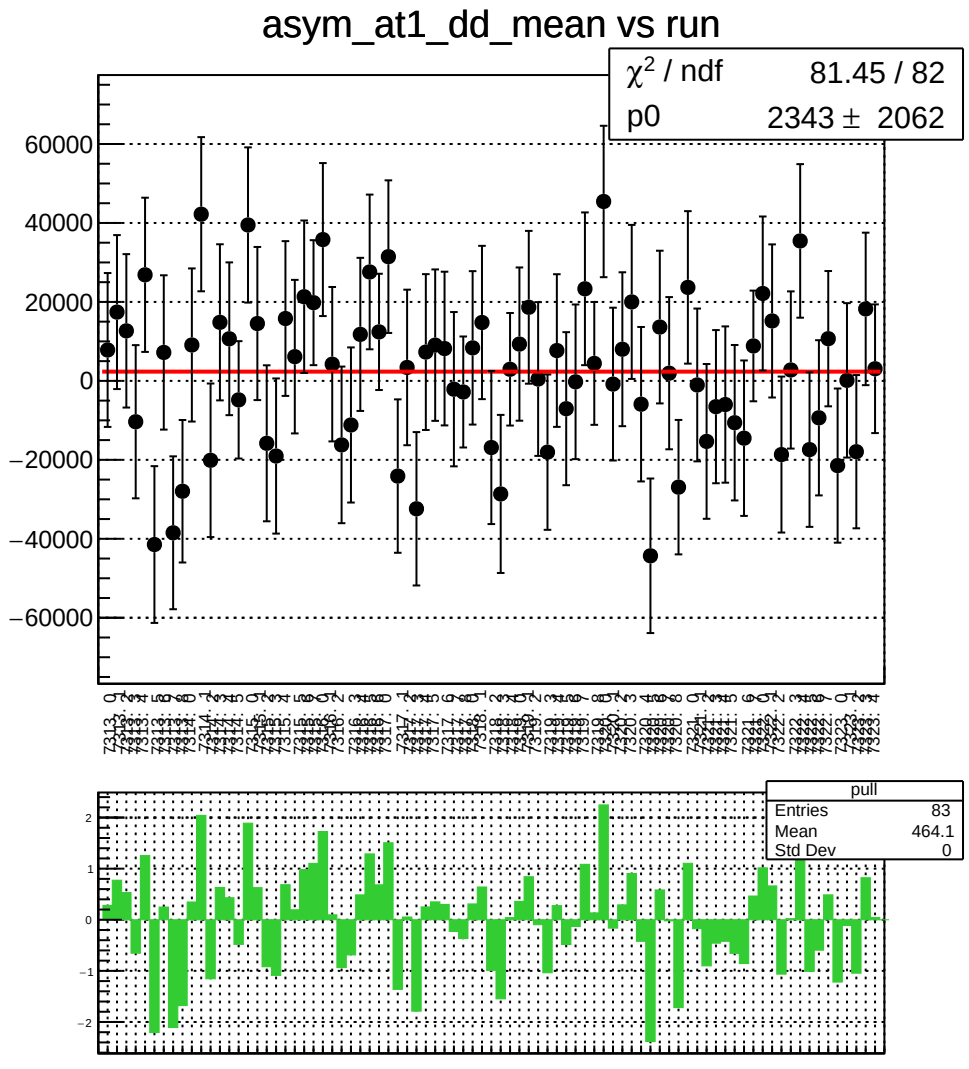

pull1D
Entries 83
Mean −0.006231
Std Dev 0.9592

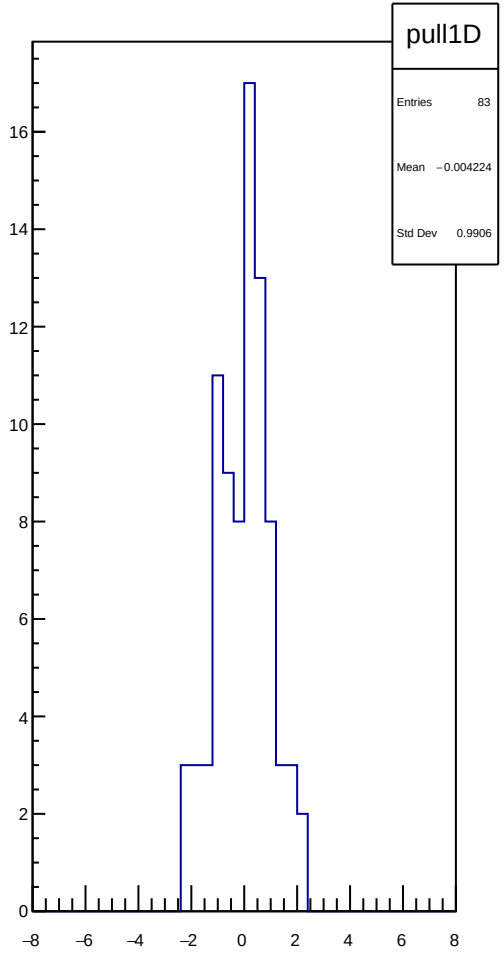

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 96.35 / 82
p0 1814 ± 1.429
1880
1860
1840
1820
1800
1780
1760

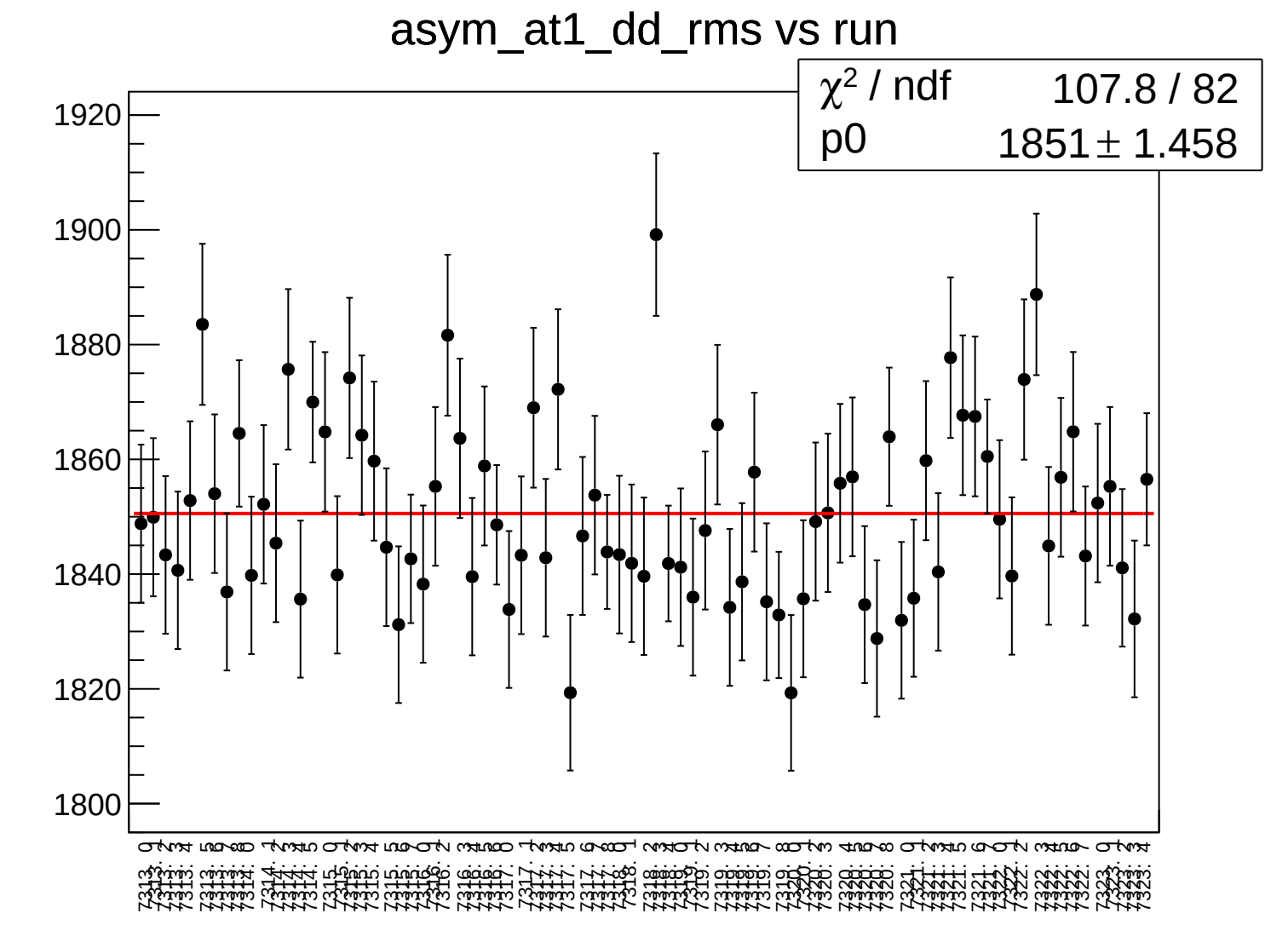

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.53 / 82
p0 55.98 ± 419.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −55.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

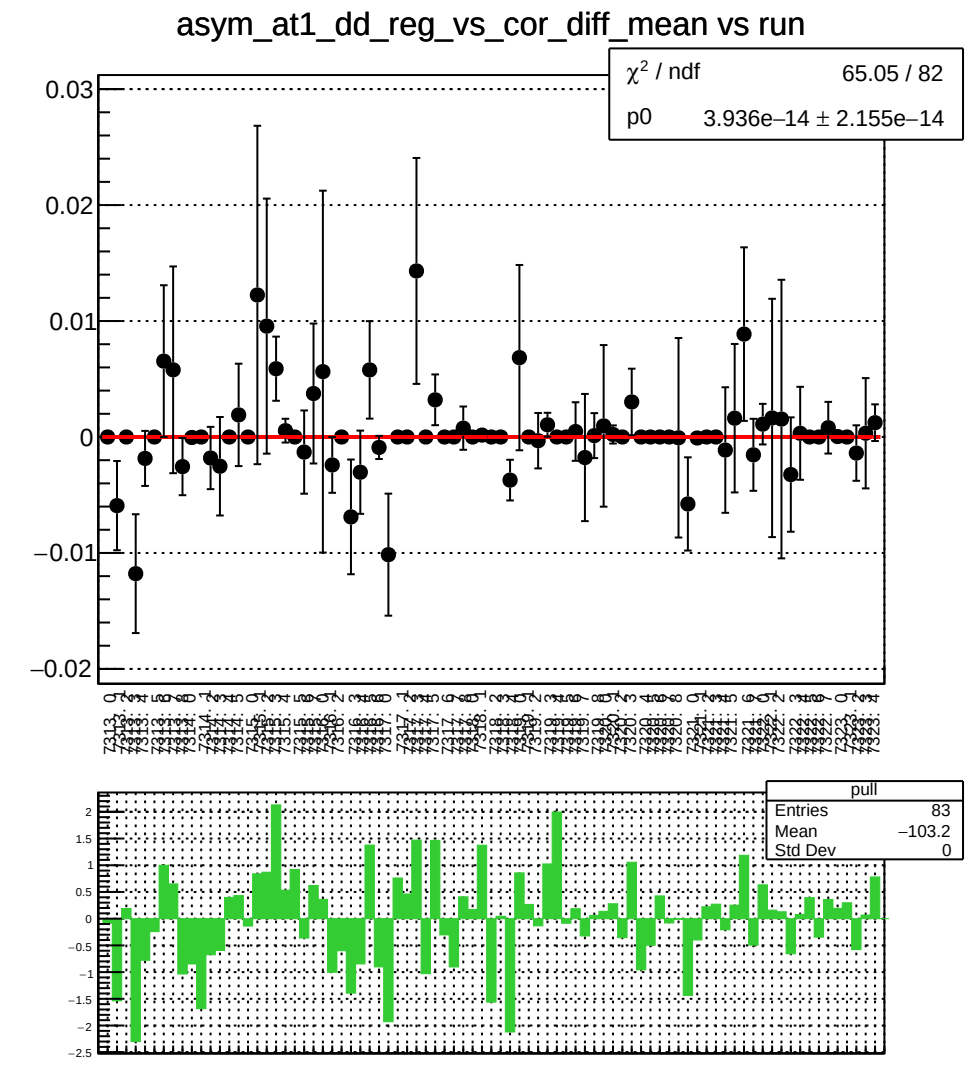

pull1D
Entries 83
Mean −0.01494
Std Dev 0.8252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

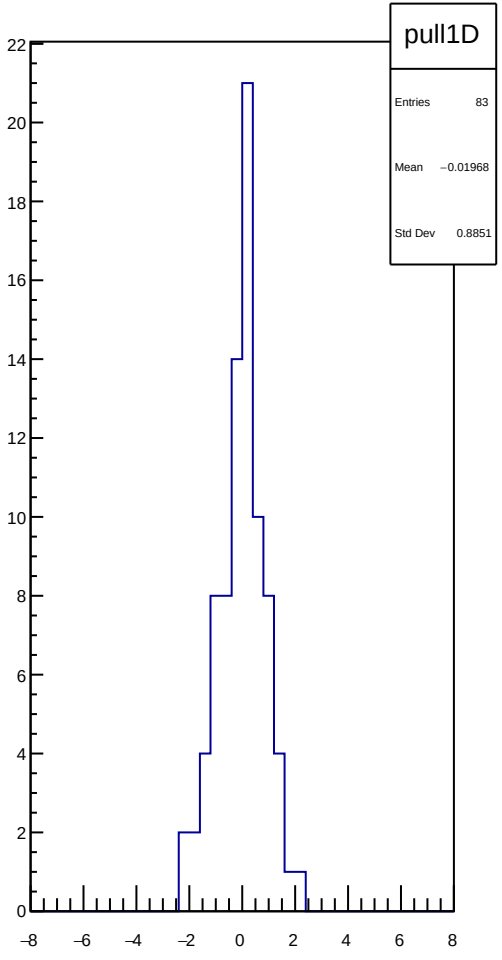

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3350 / 82
p0 376.4 ± 0.2968
420
410
400
390
380
370
360
350
340
330

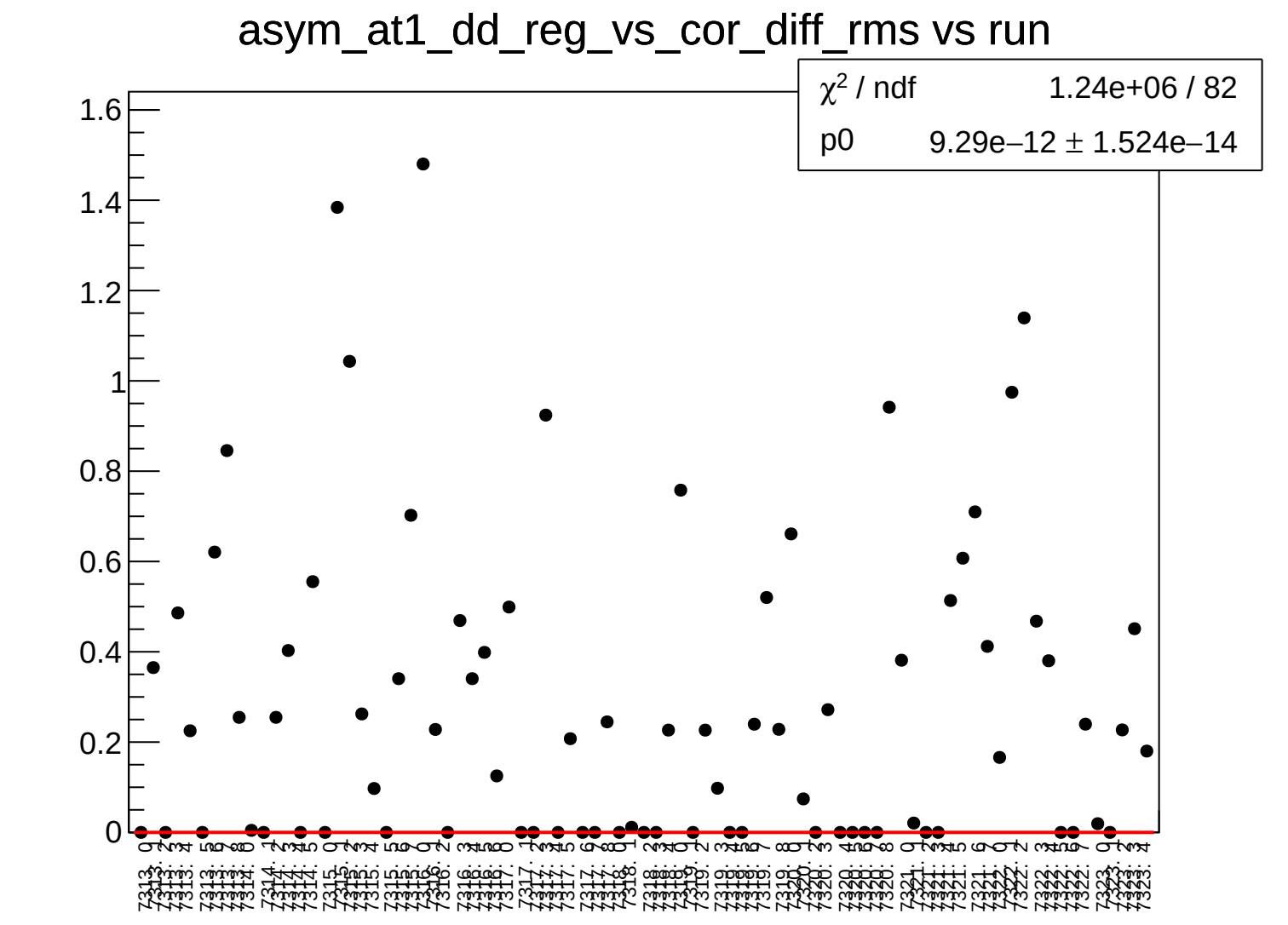

asym_at1_dd_mean vs run
χ^2 / ndf 81.45 / 82
p0 2343 ± 2062
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 464.1
Std Dev 0
2
1
0
−1
−2

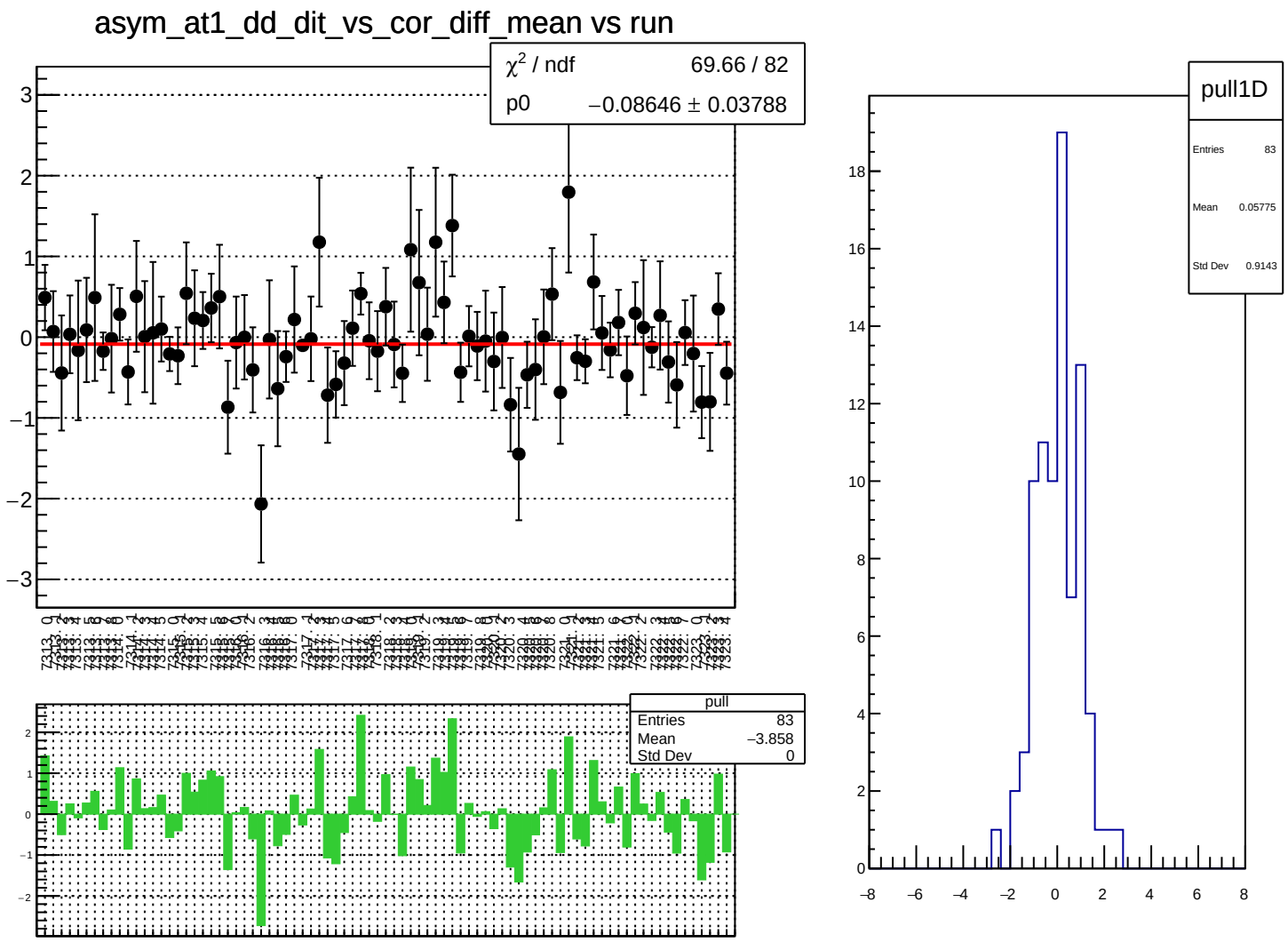

pull1D
Entries 83
Mean −0.004224
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

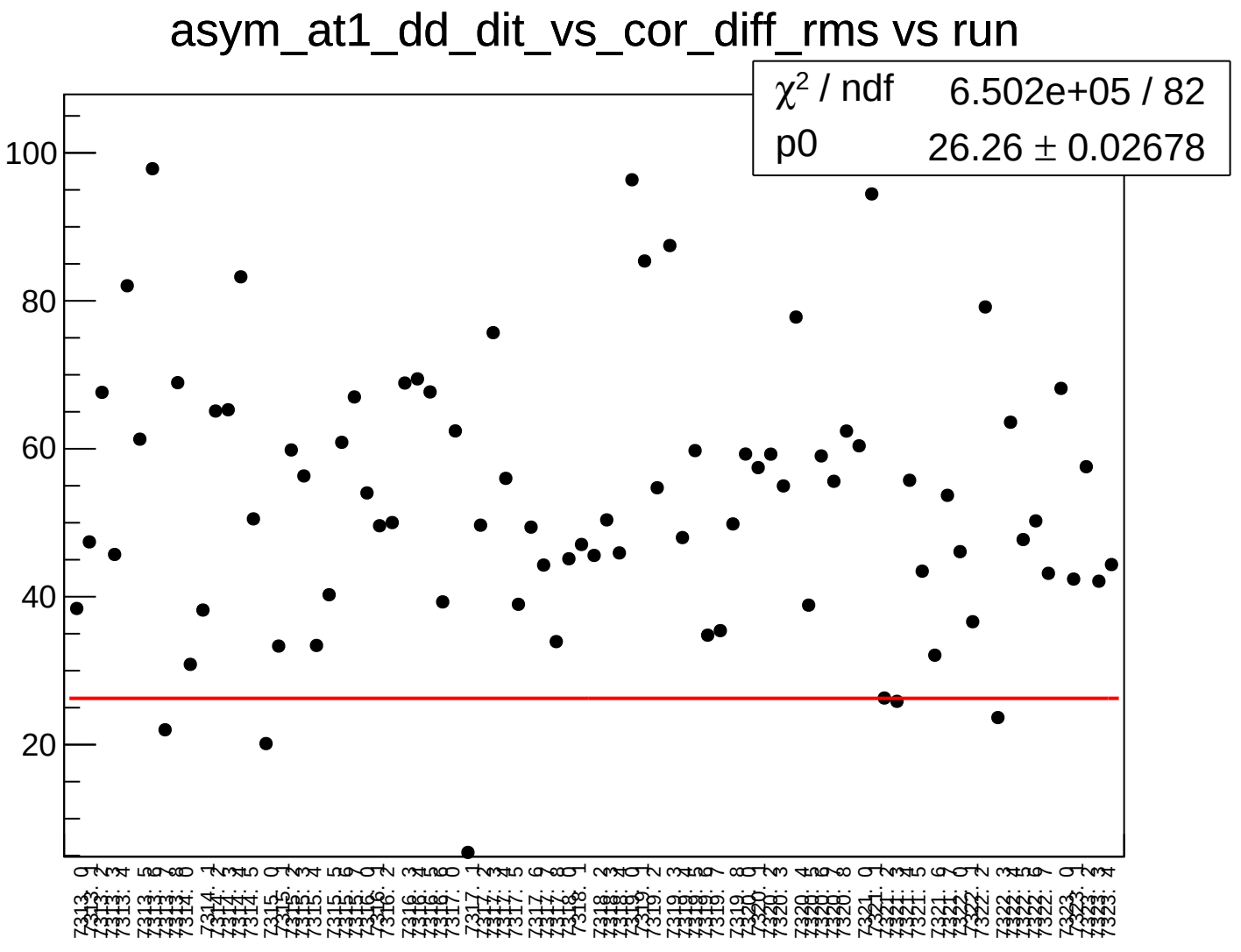

asym_at1_dd_rms vs run
χ² / ndf 107.8 / 82
p0 1851 ± 1.458
1920
1900
1880
1860
1840
1820
1800

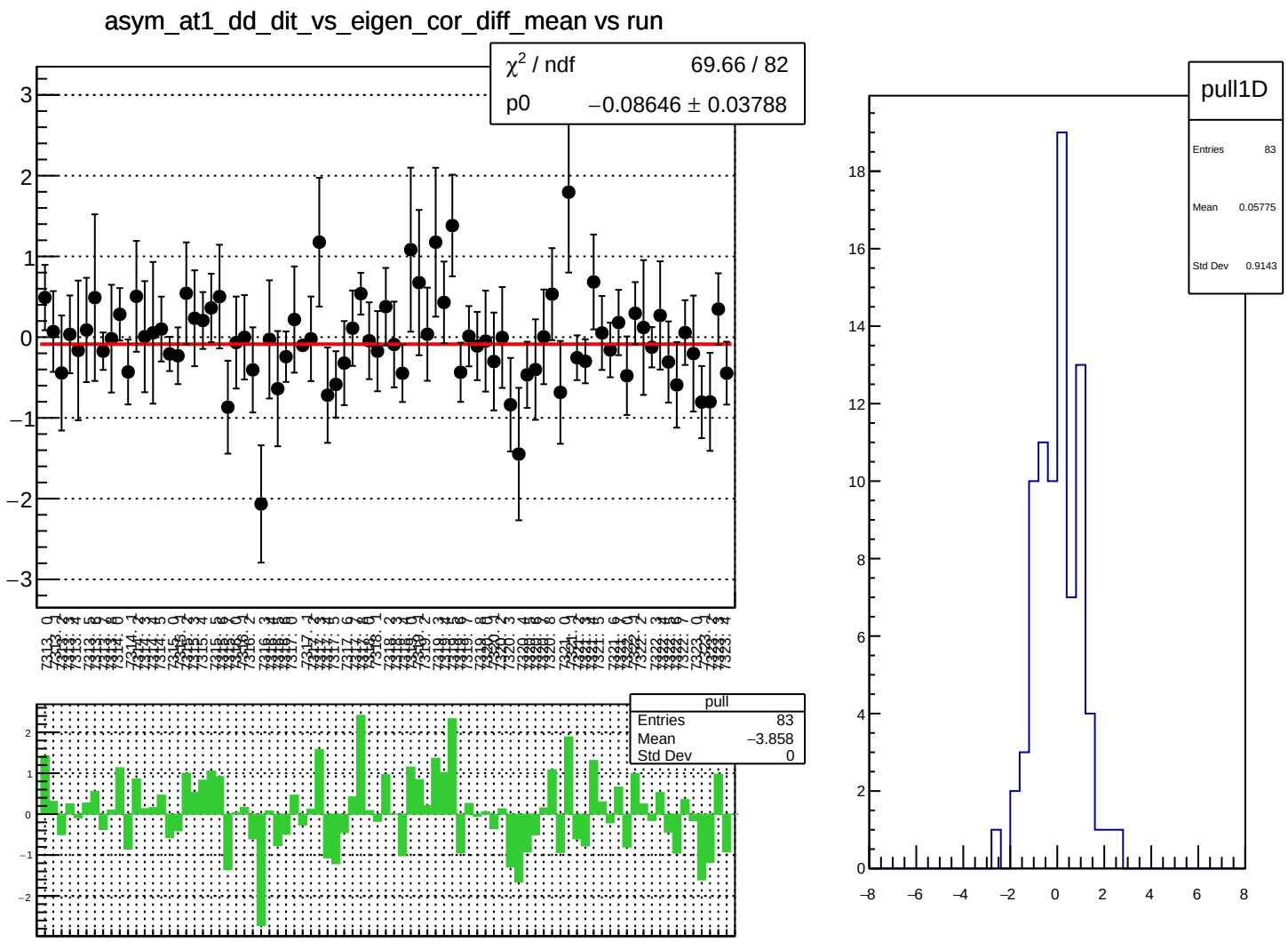

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.05 / 82
p0 3.936e−14 ± 2.155e−14
pull
Entries 83
Mean −103.2
Std Dev 0

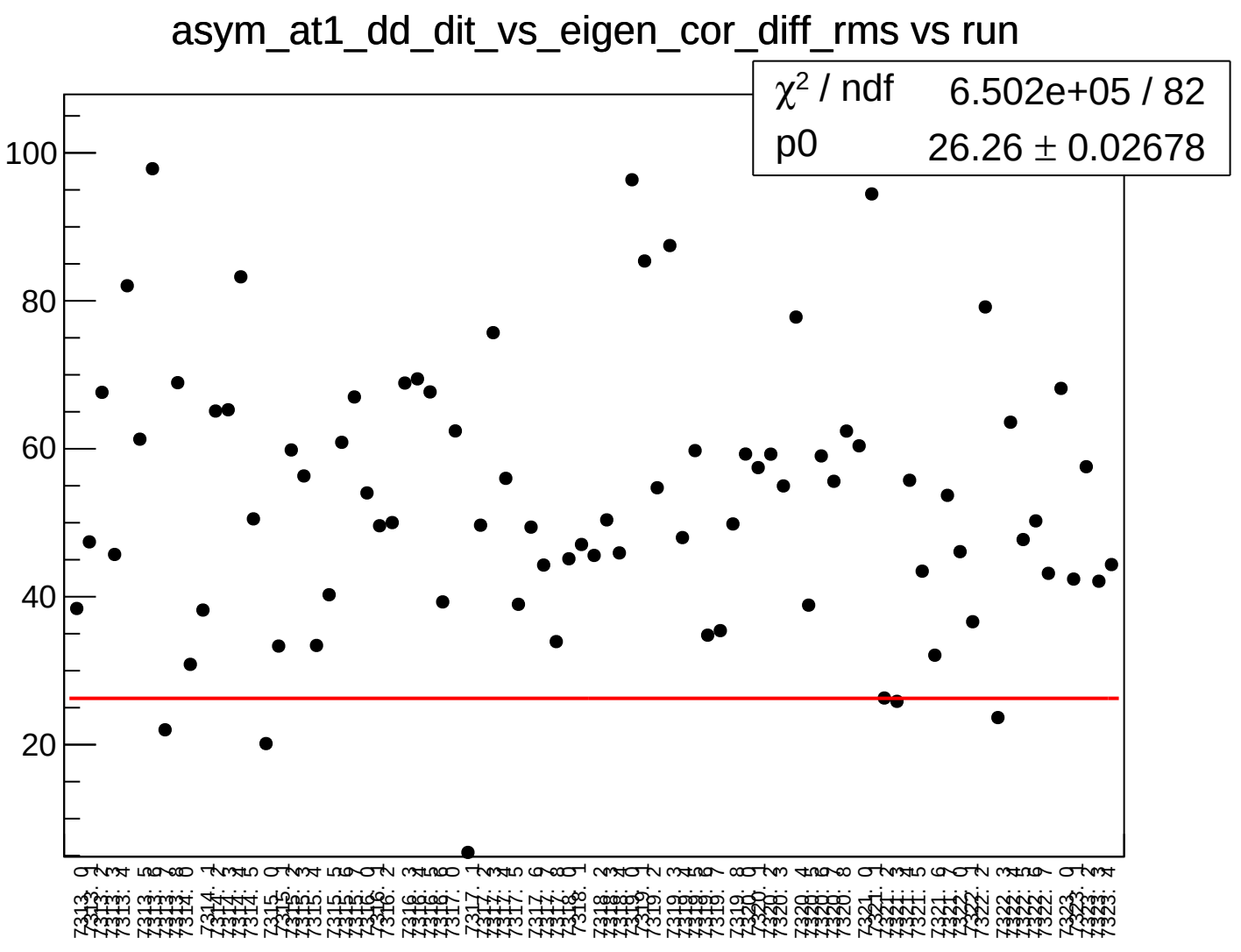

pull1D
Entries 83
Mean −0.01968
Std Dev 0.8851

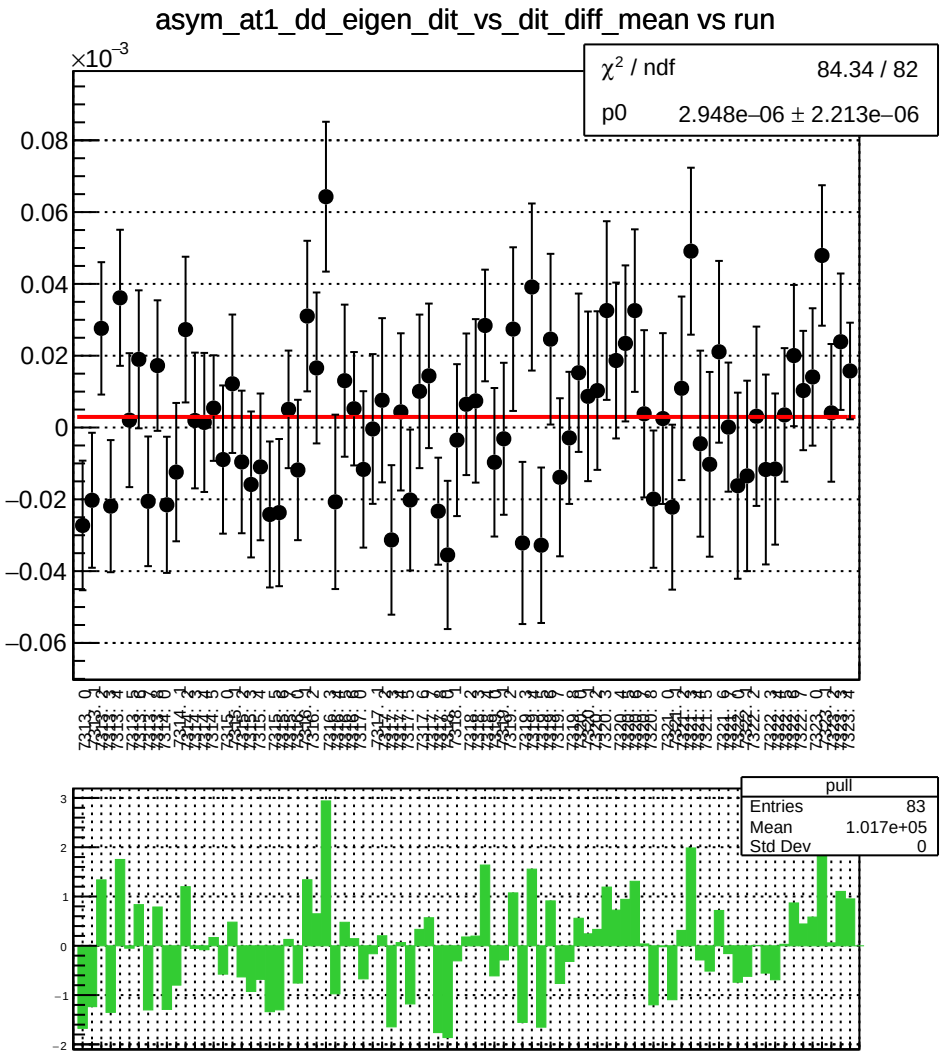

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.24e+06 / 82
p0 9.29e−12 ± 1.524e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

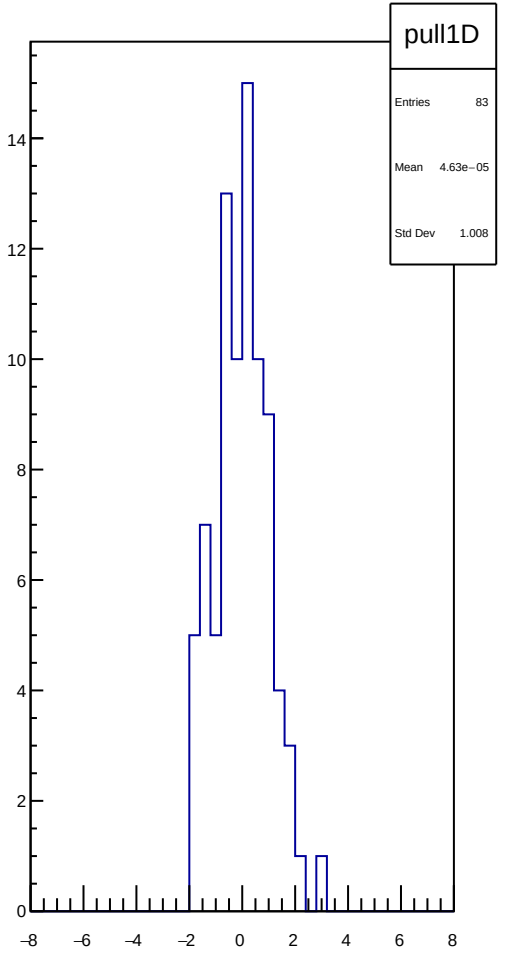

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 82
p0 −0.08646 ± 0.03788
pull
Entries 83
Mean −3.858
Std Dev 0
pull1D
Entries 83
Mean 0.05775
Std Dev 0.9143

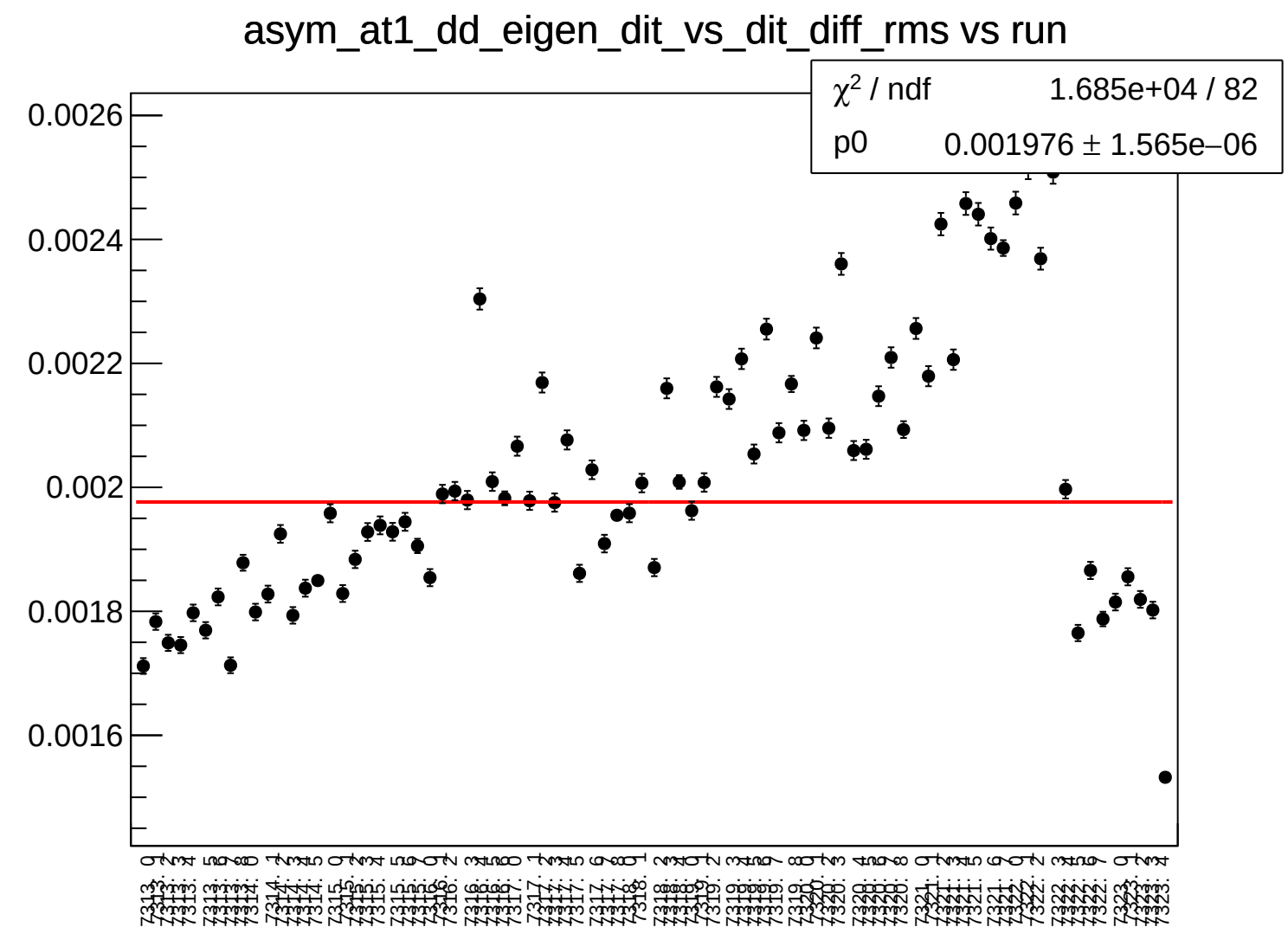

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.502e+05 / 82
p0 26.26 ± 0.02678
100
80
60
40
20

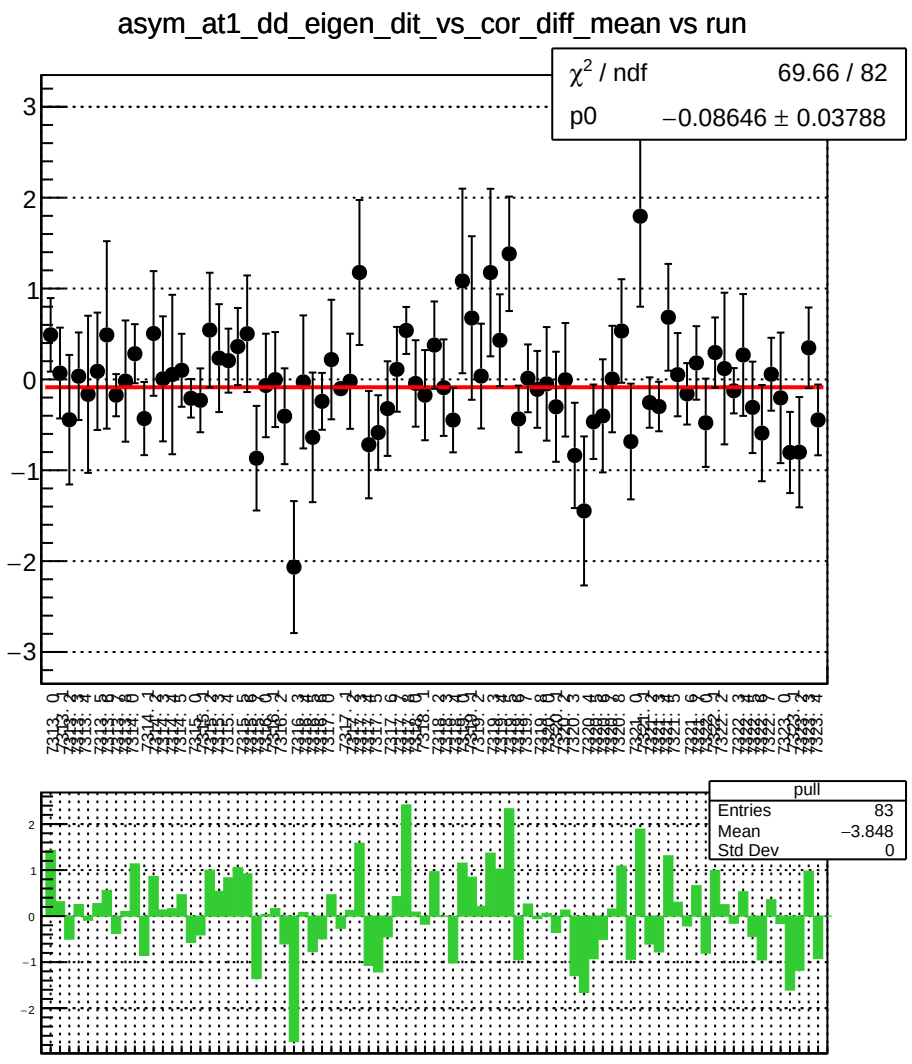

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.66 / 82
p0 −0.08646 ± 0.03788
pull
Entries 83
Mean −3.858
Std Dev 0
pull1D
Entries 83
Mean 0.05775
Std Dev 0.9143

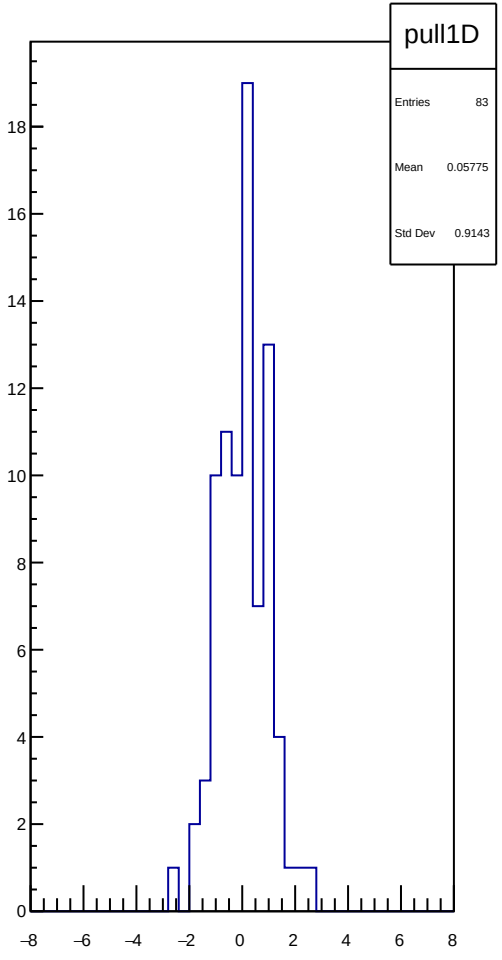

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.502e+05 / 82
p0 26.26 ± 0.02678
100
80
60
40
20

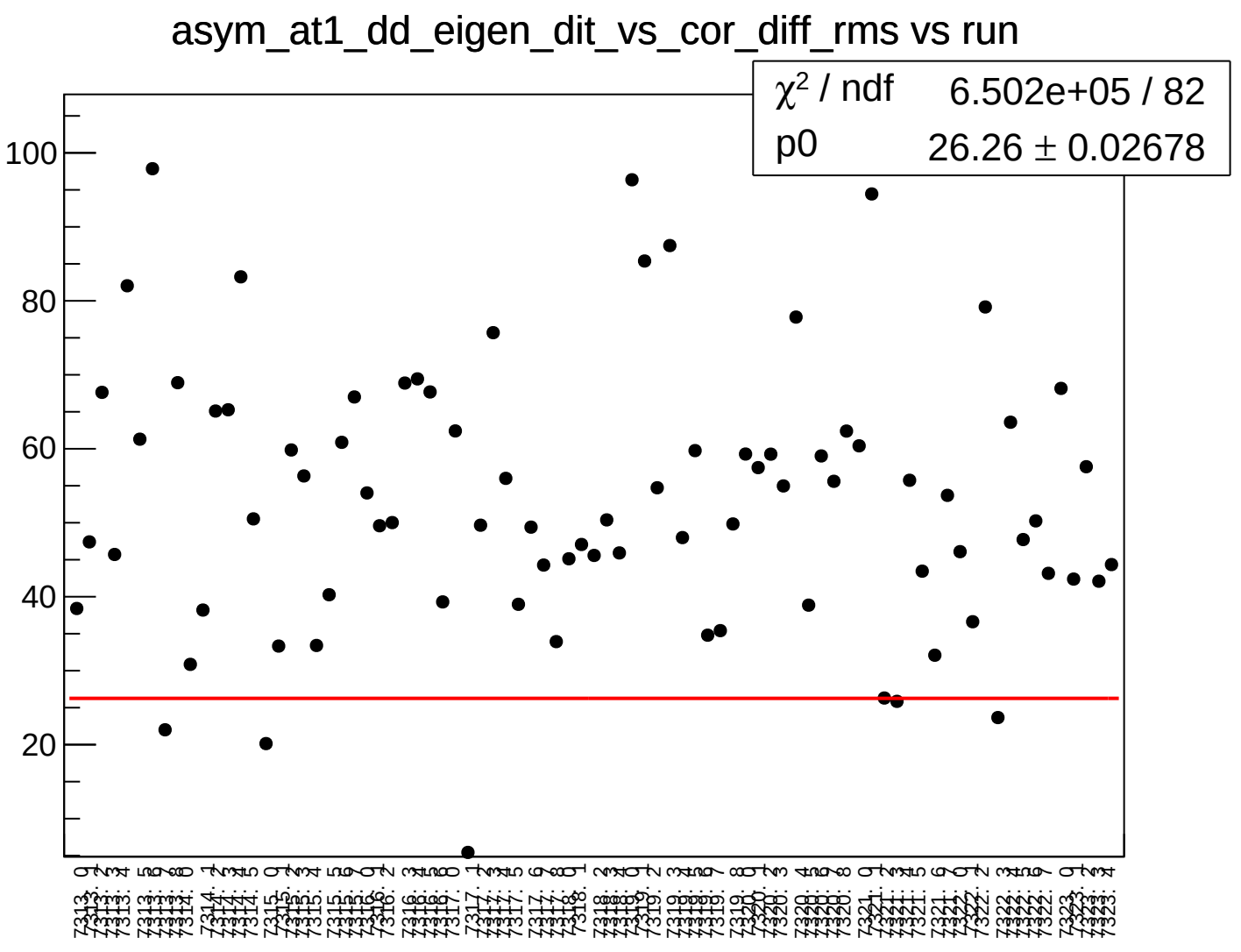

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.34 / 82
p0 2.948e−06 ± 2.213e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean 1.017e+05
Std Dev 0
3
2
1
0
−1
−2

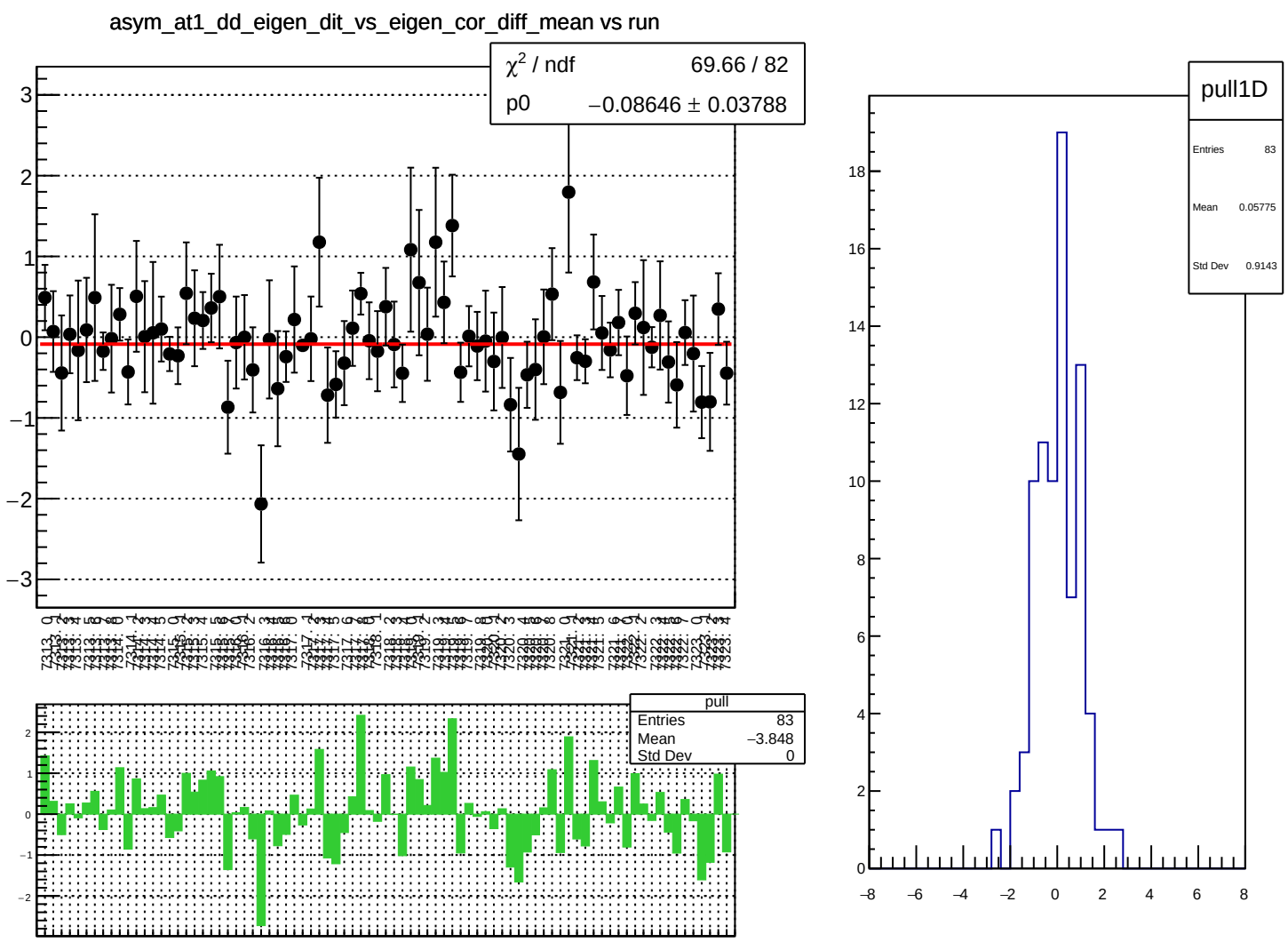

pull1D
Entries 83
Mean 4.63e−05
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

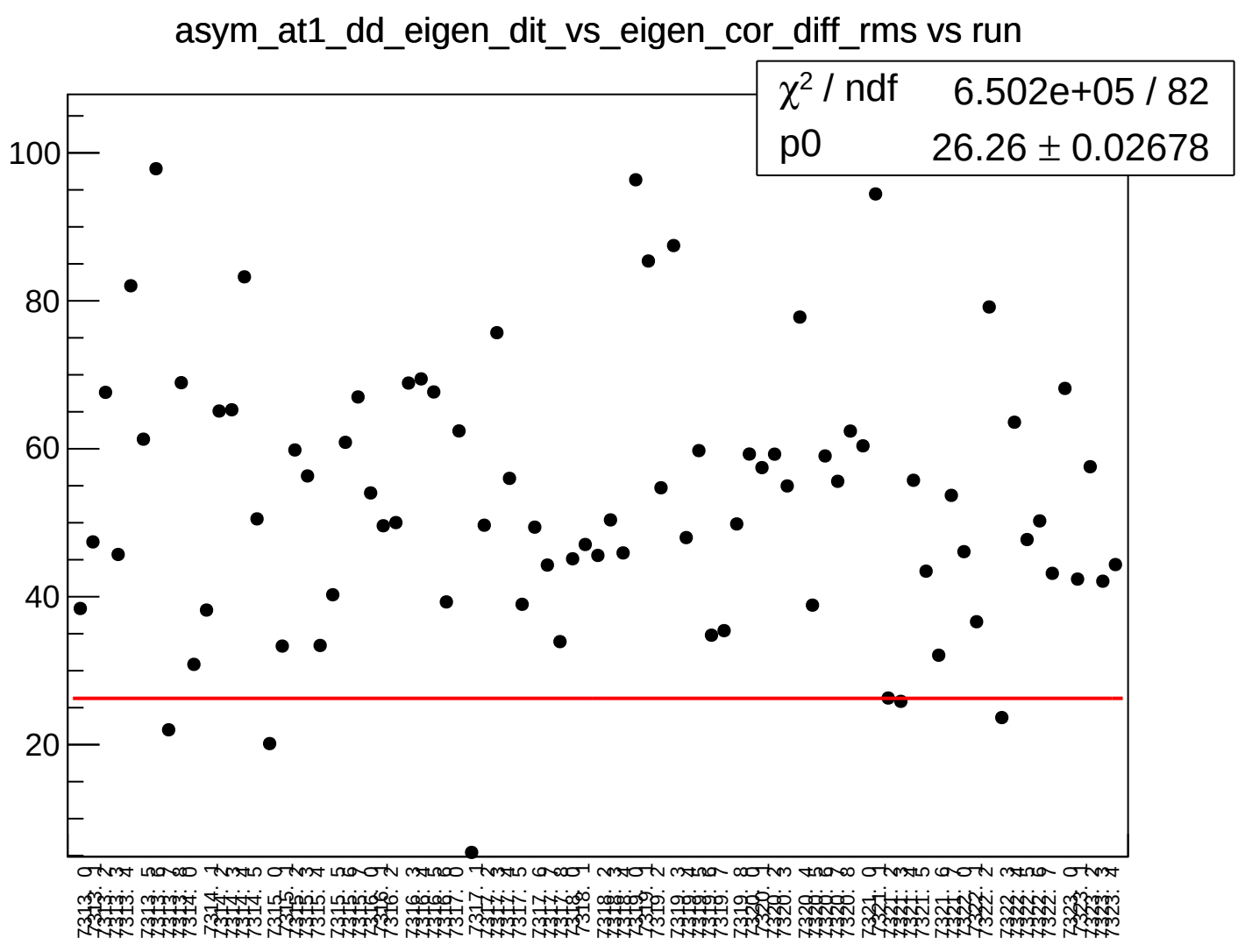

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.685e+04 / 82
p0 0.001976 ± 1.565e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

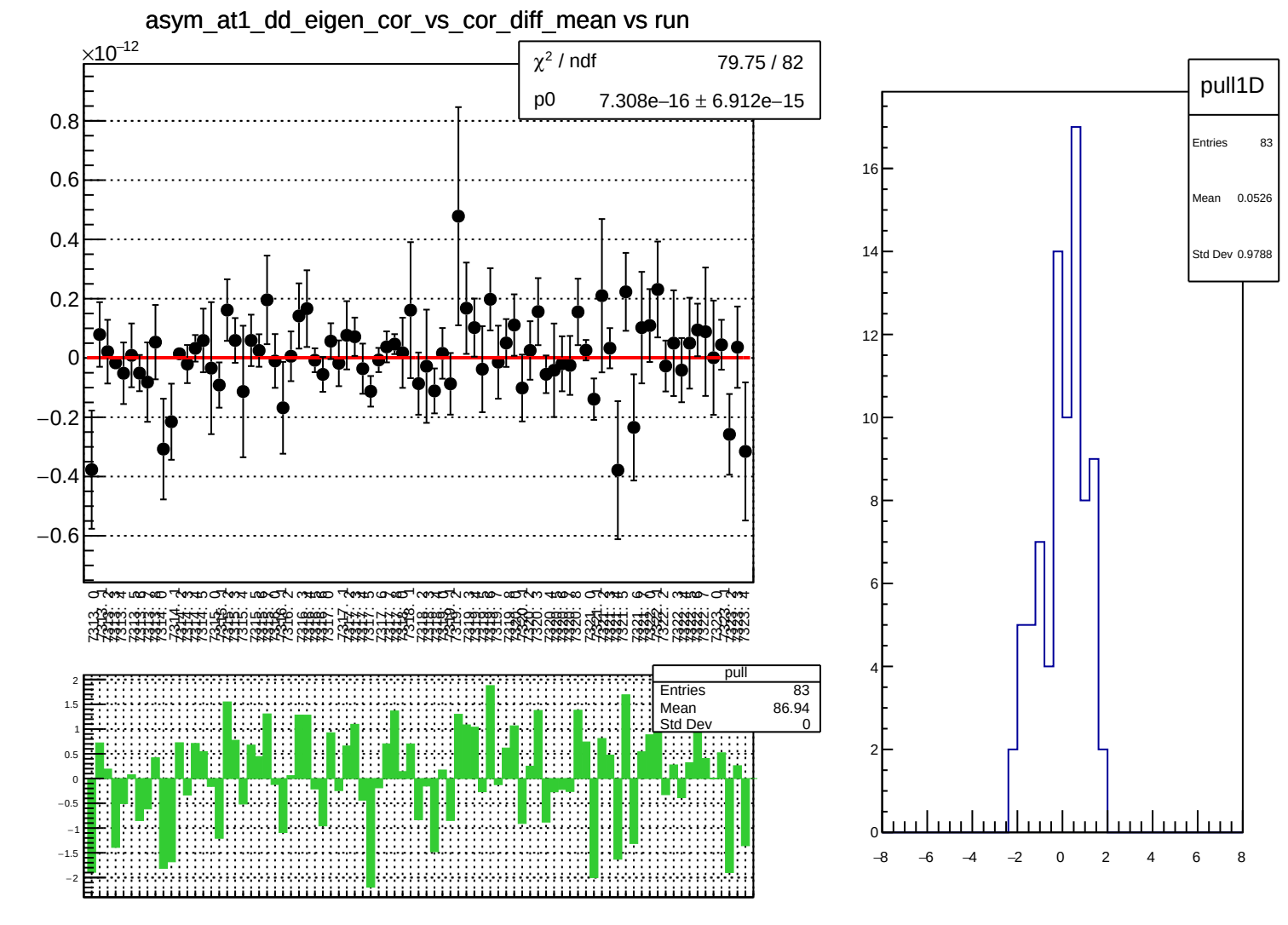

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 82
p0 −0.08646 ± 0.03788
pull
Entries 83
Mean −3.848
Std Dev 0

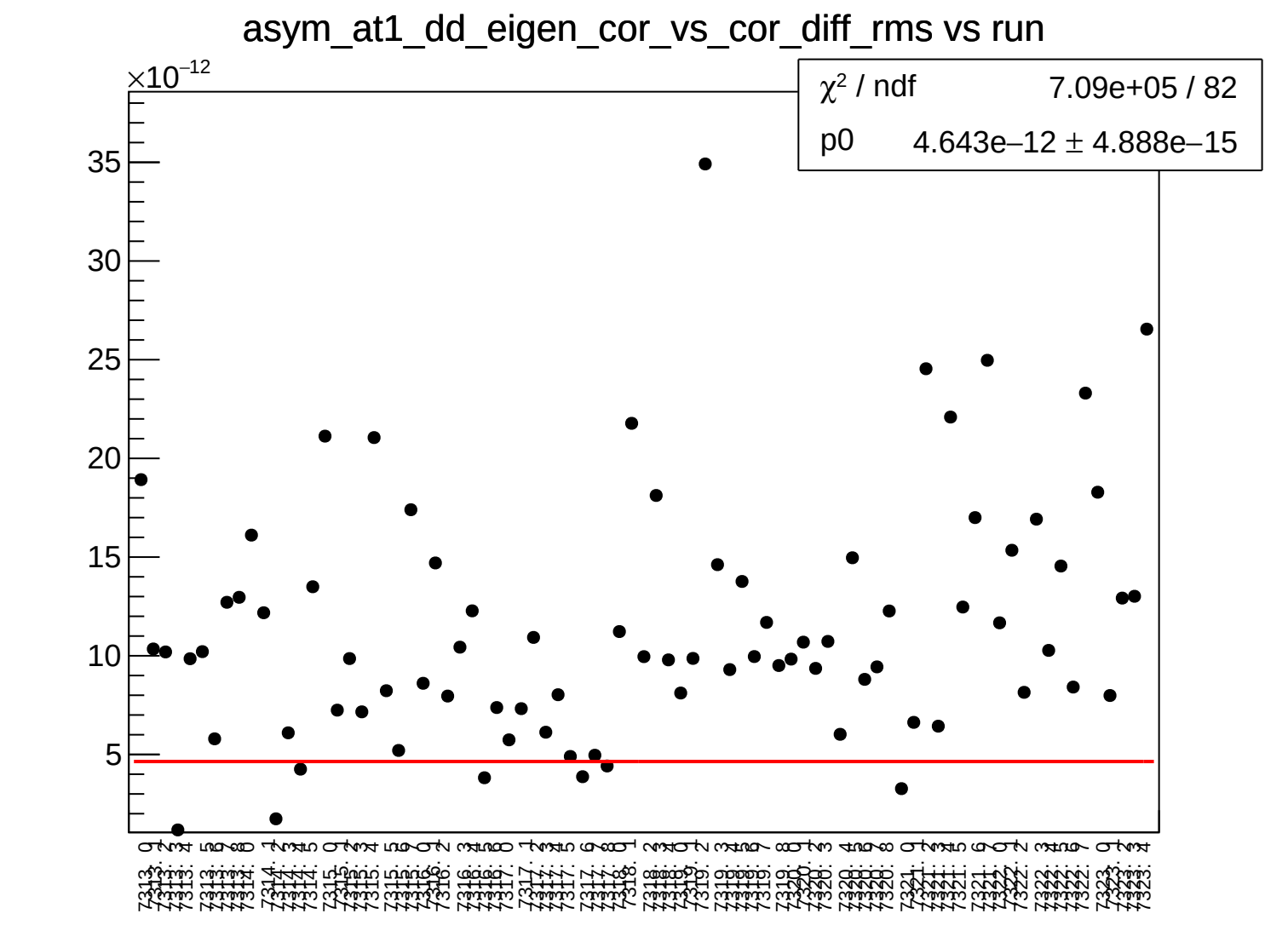

pull1D
Entries 83
Mean 0.05775
Std Dev 0.9143

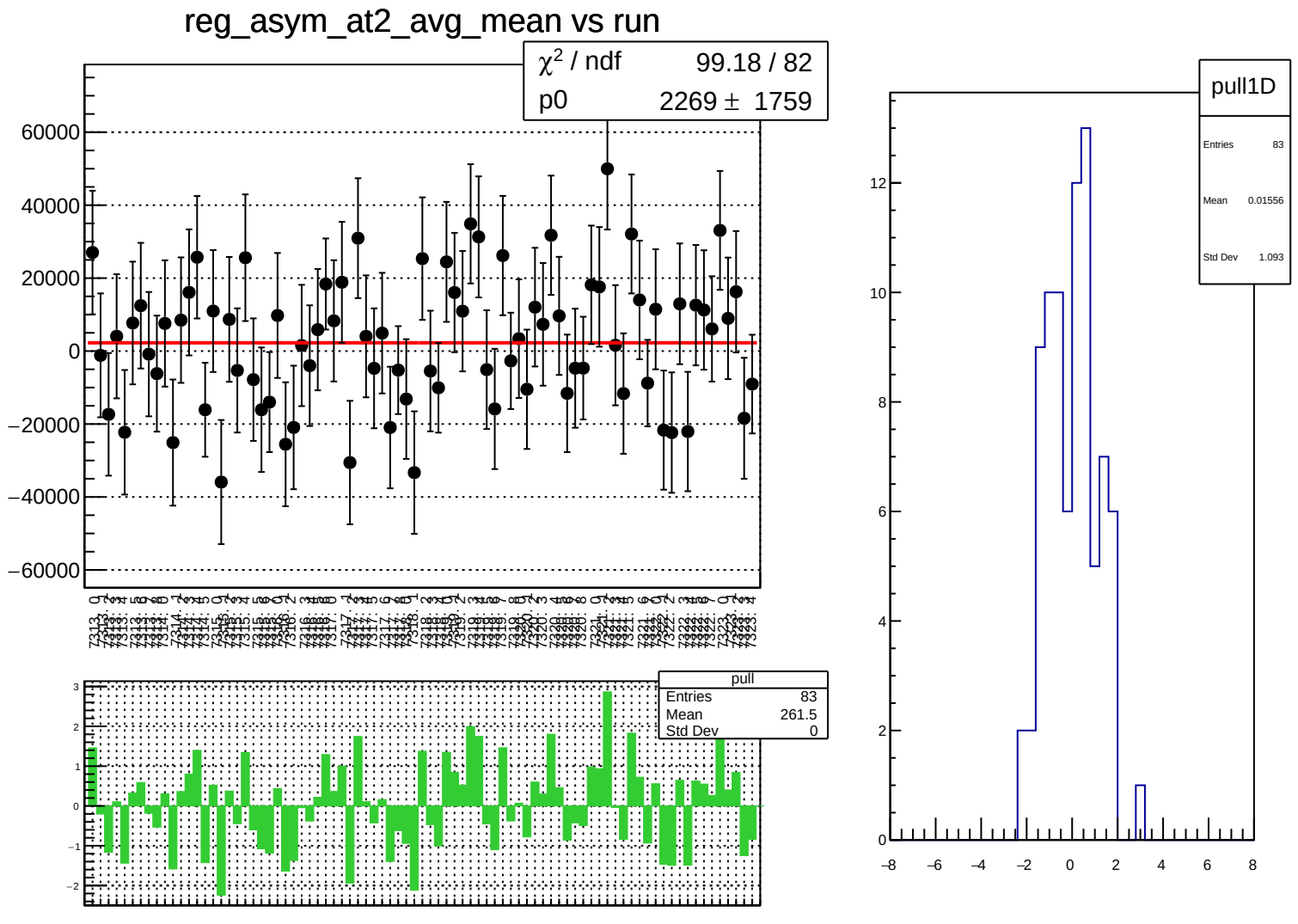

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.502e+05 / 82
p0 26.26 ± 0.02678
100
80
60
40
20

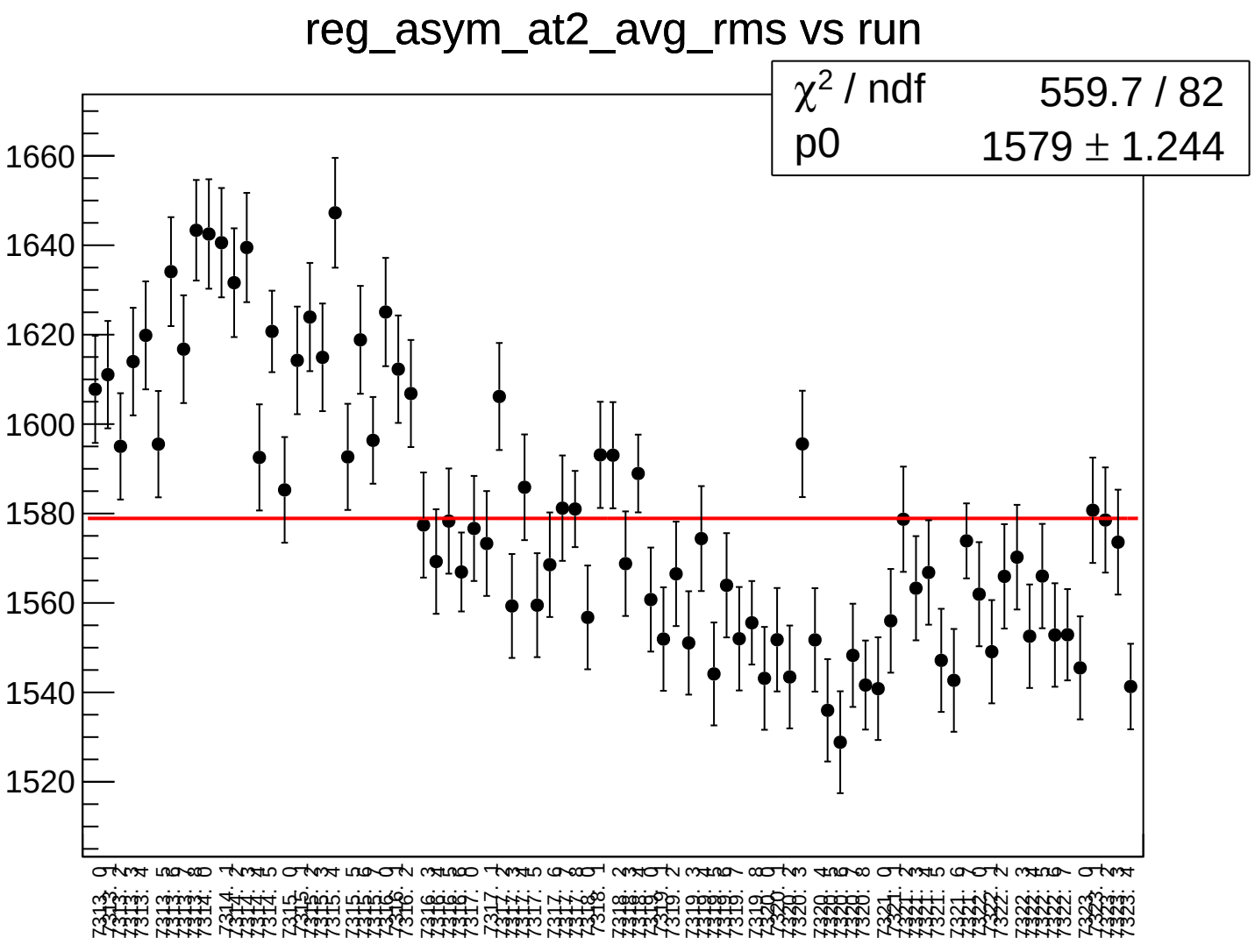

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.66 / 82
p0 −0.08646 ± 0.03788
pull
Entries 83
Mean −3.848
Std Dev 0
pull1D
Entries 83
Mean 0.05775
Std Dev 0.9143

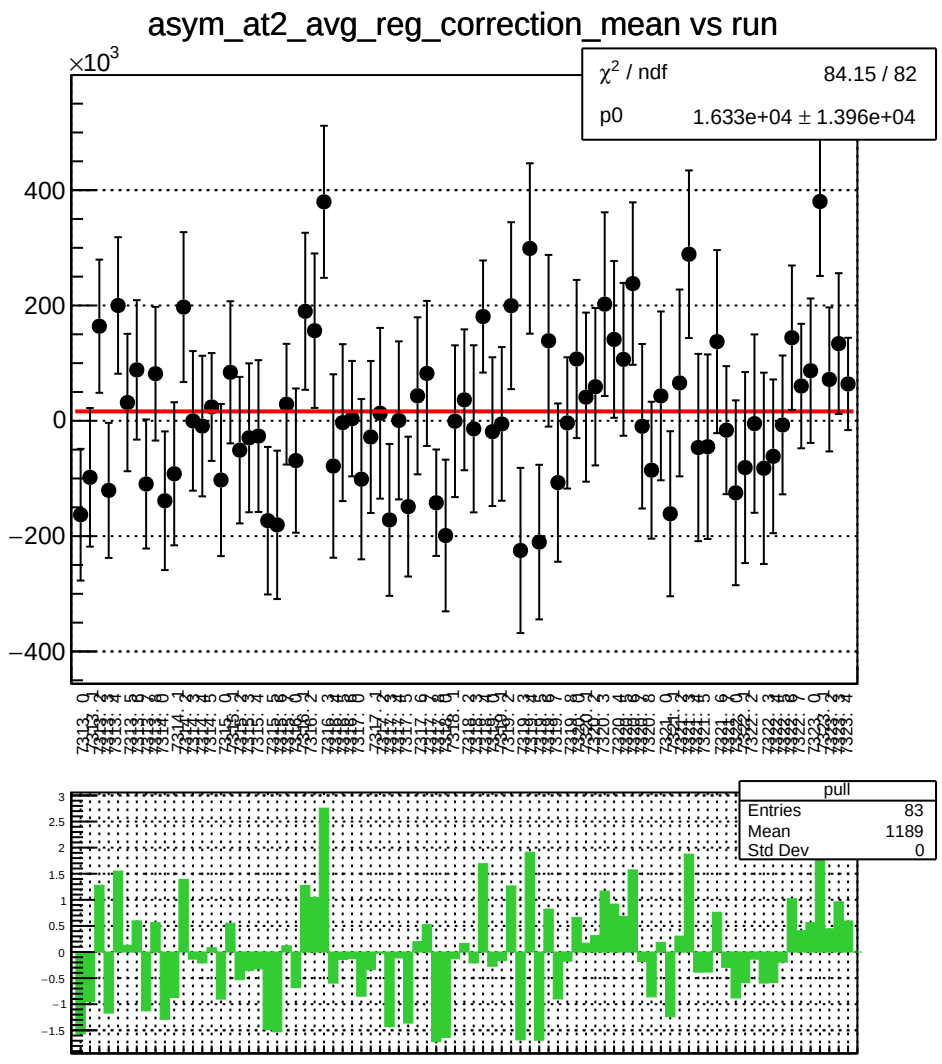

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.502e+05 / 82
p0 26.26 ± 0.02678
100
80
60
40
20

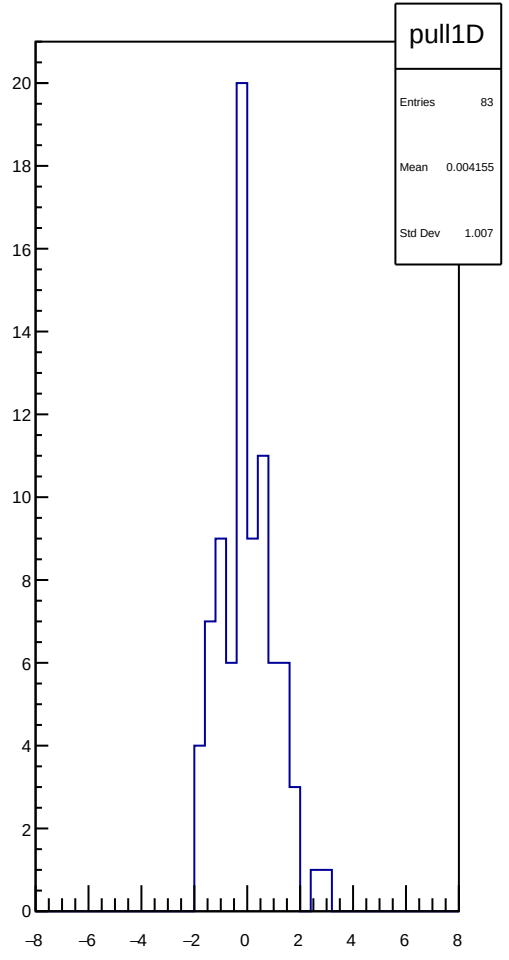

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.75 / 82
p0 7.308e−16 ± 6.912e−15
pull
Entries 83
Mean 86.94
Std Dev 0
pull1D
Entries 83
Mean 0.0526
Std Dev 0.9788

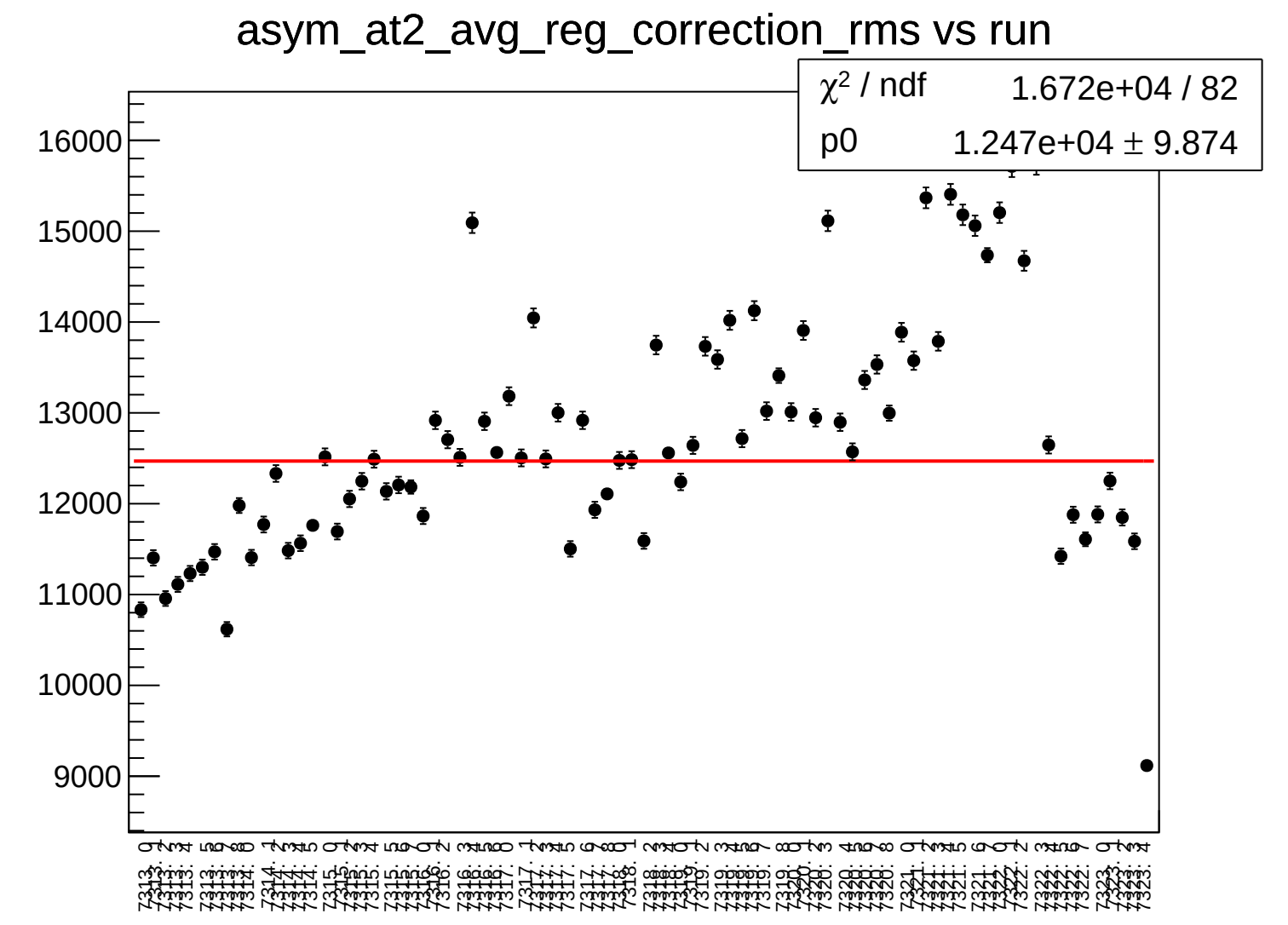

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.09e+05 / 82
p0 4.643e−12 ± 4.888e−15
35
30
25
20
15
10
5

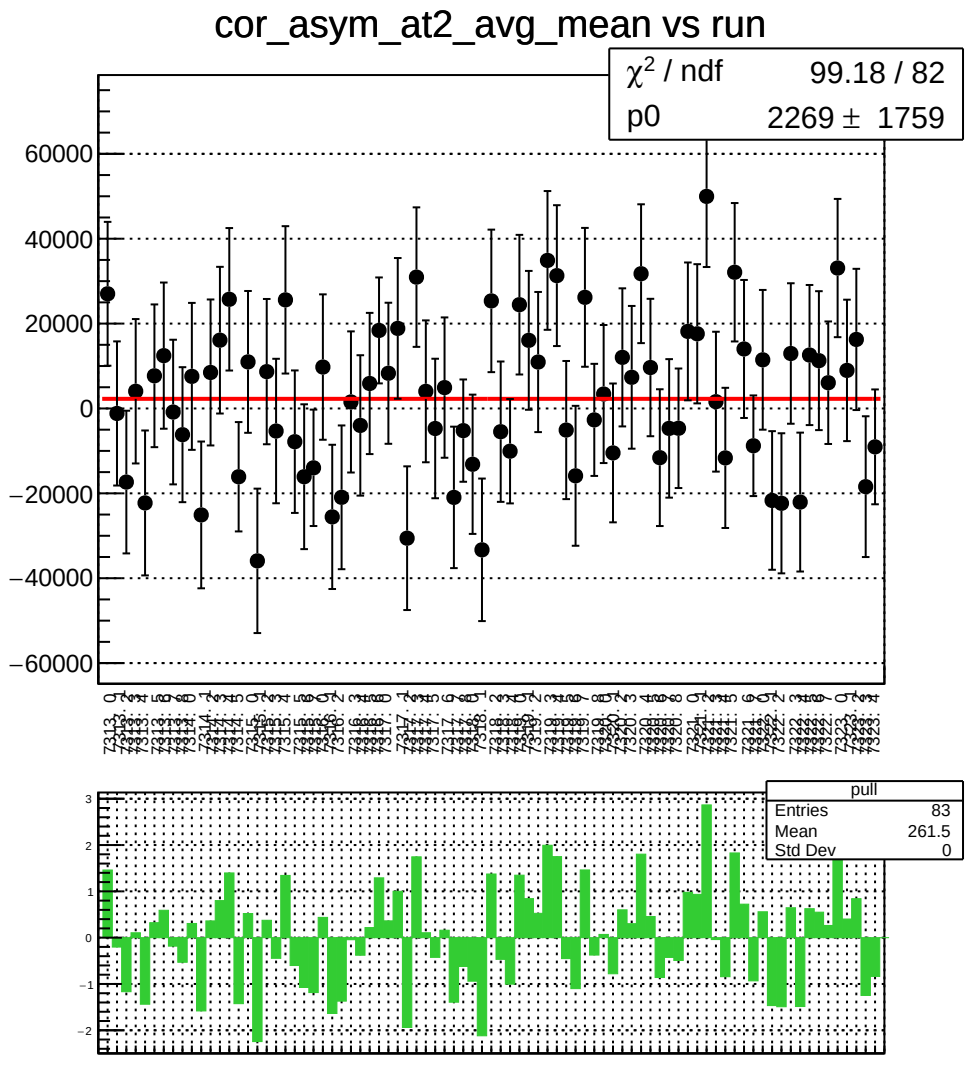

reg_asym_at2_avg_mean vs run
χ^2 / ndf 99.18 / 82
p0 2269 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 261.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.01556
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

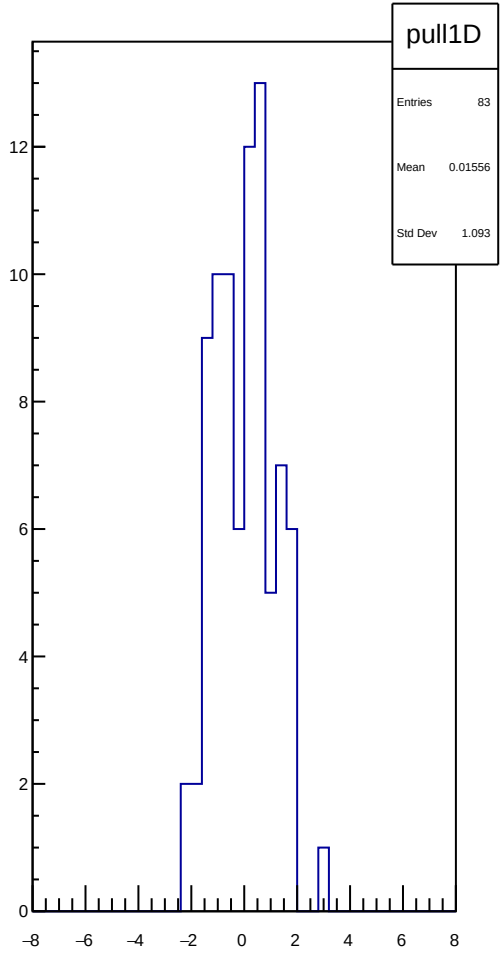

reg_asym_at2_avg_rms vs run
χ² / ndf 559.7 / 82
p0 1579 ± 1.244
1660
1640
1620
1600
1580
1560
1540
1520

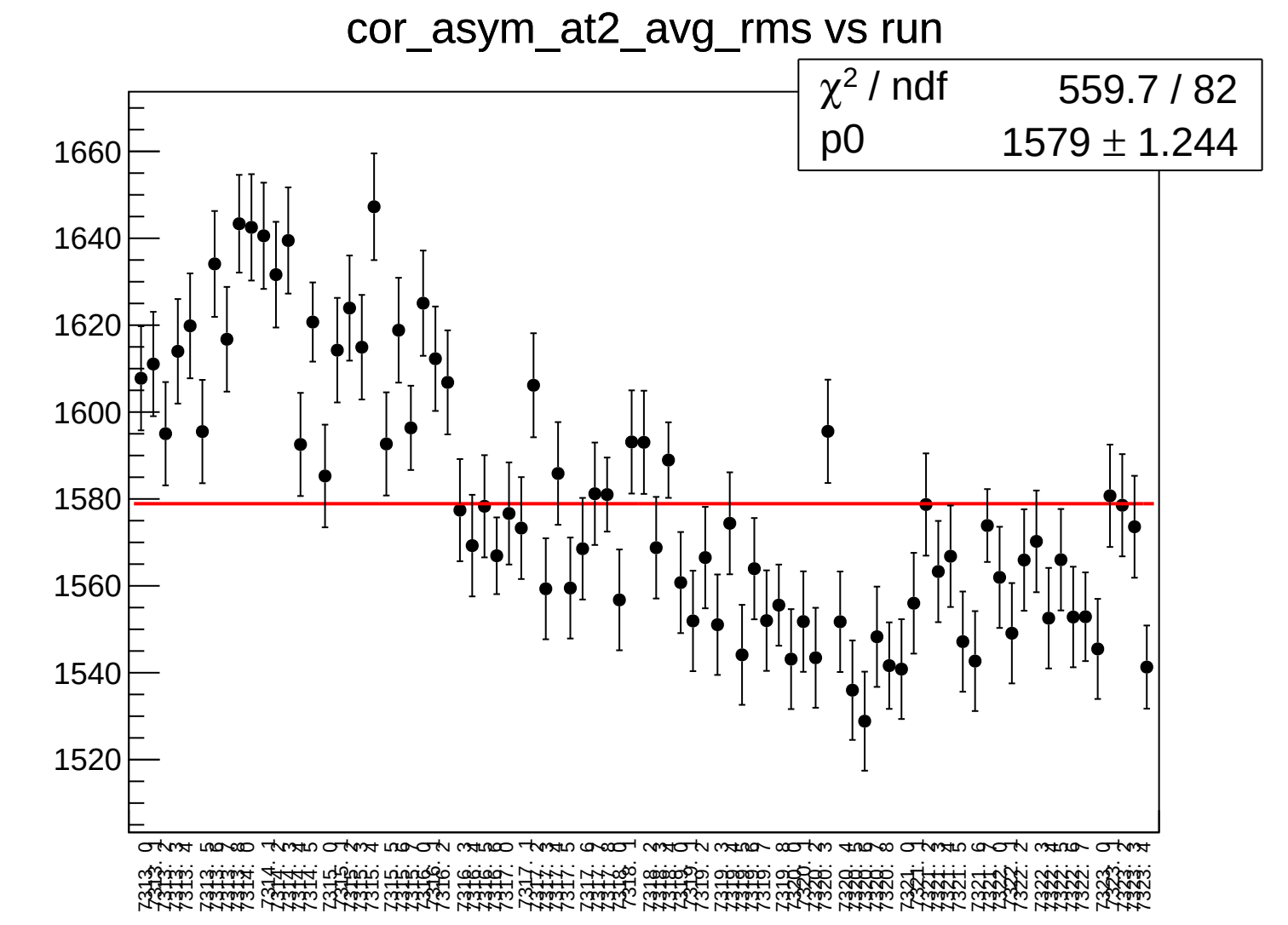

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.15 / 82
p0 1.633e+04 ± 1.396e+04
400
200
0
−200
−400
pull
Entries 83
Mean 1189
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

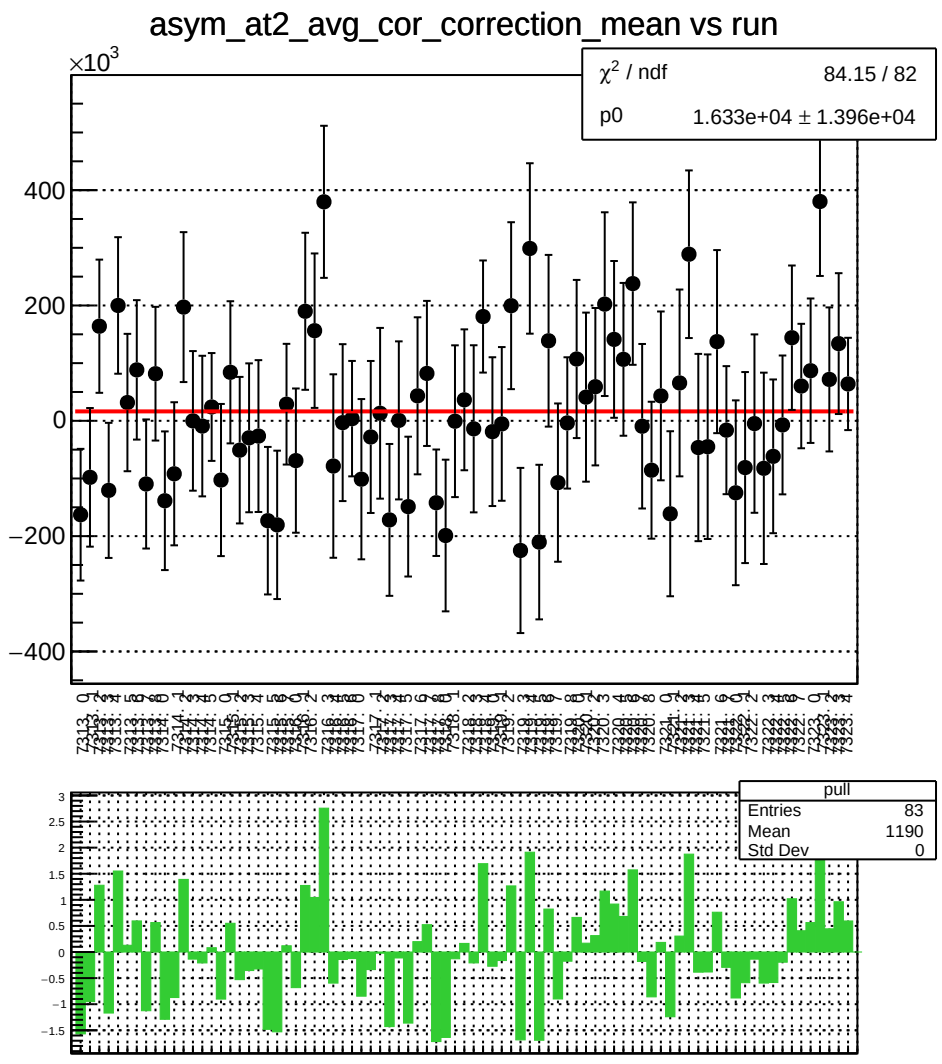

pull1D
Entries 83
Mean 0.004155
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

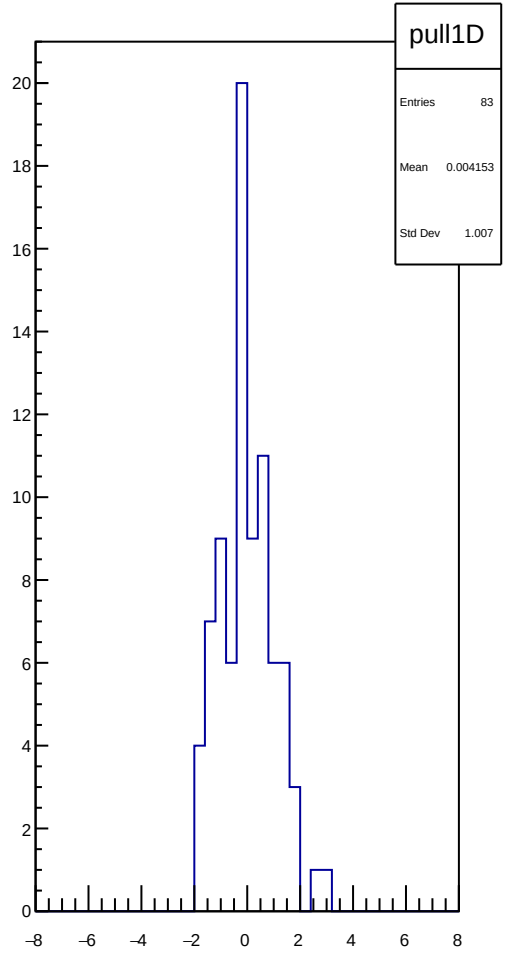

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.672e+04 / 82
p0 1.247e+04 ± 9.874
16000
15000
14000
13000
12000
11000
10000
9000

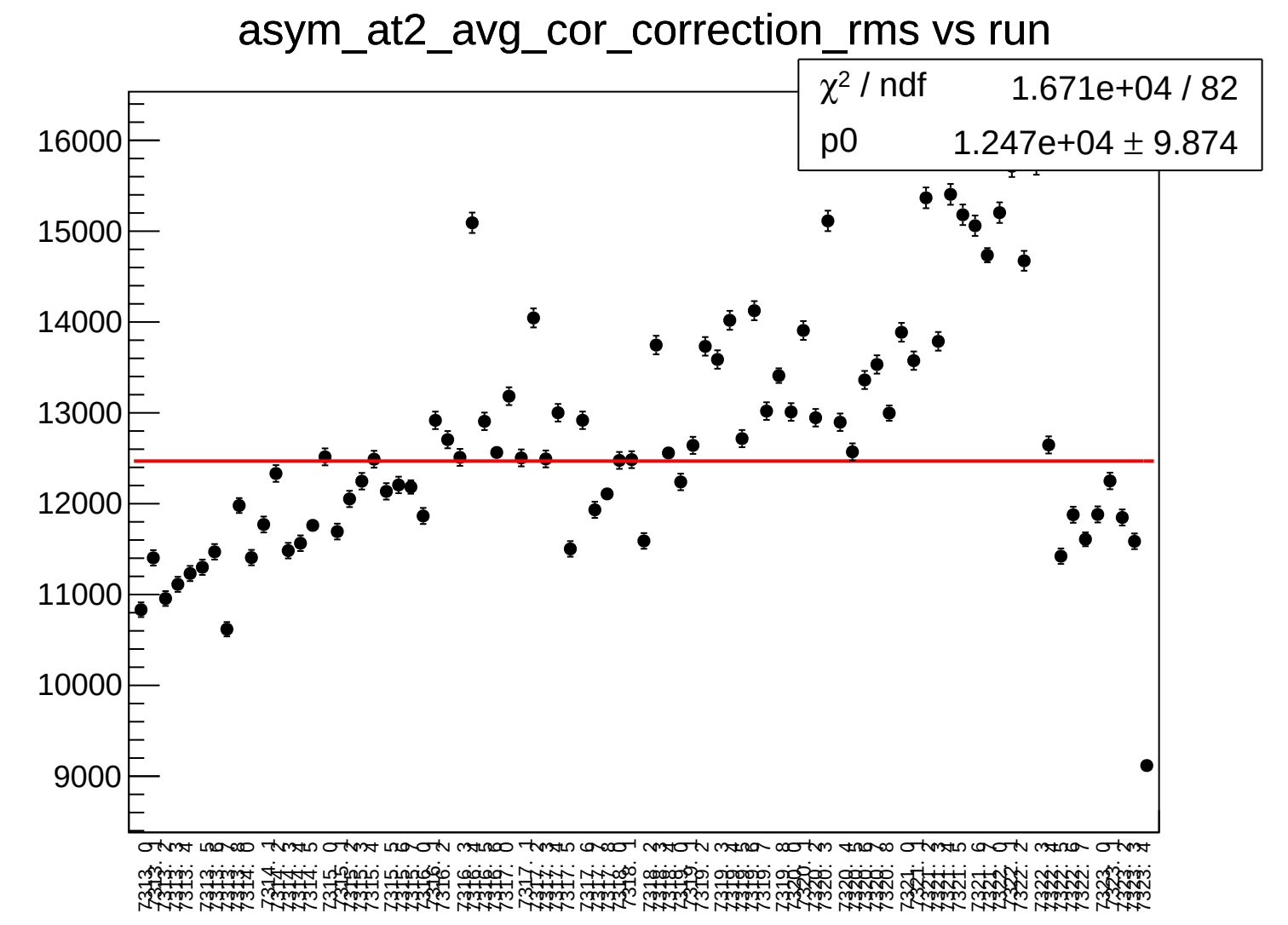

cor_asym_at2_avg_mean vs run
χ² / ndf 99.18 / 82
p0 2269 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 261.5
Std Dev 0
3
2
1
0
−1
−2

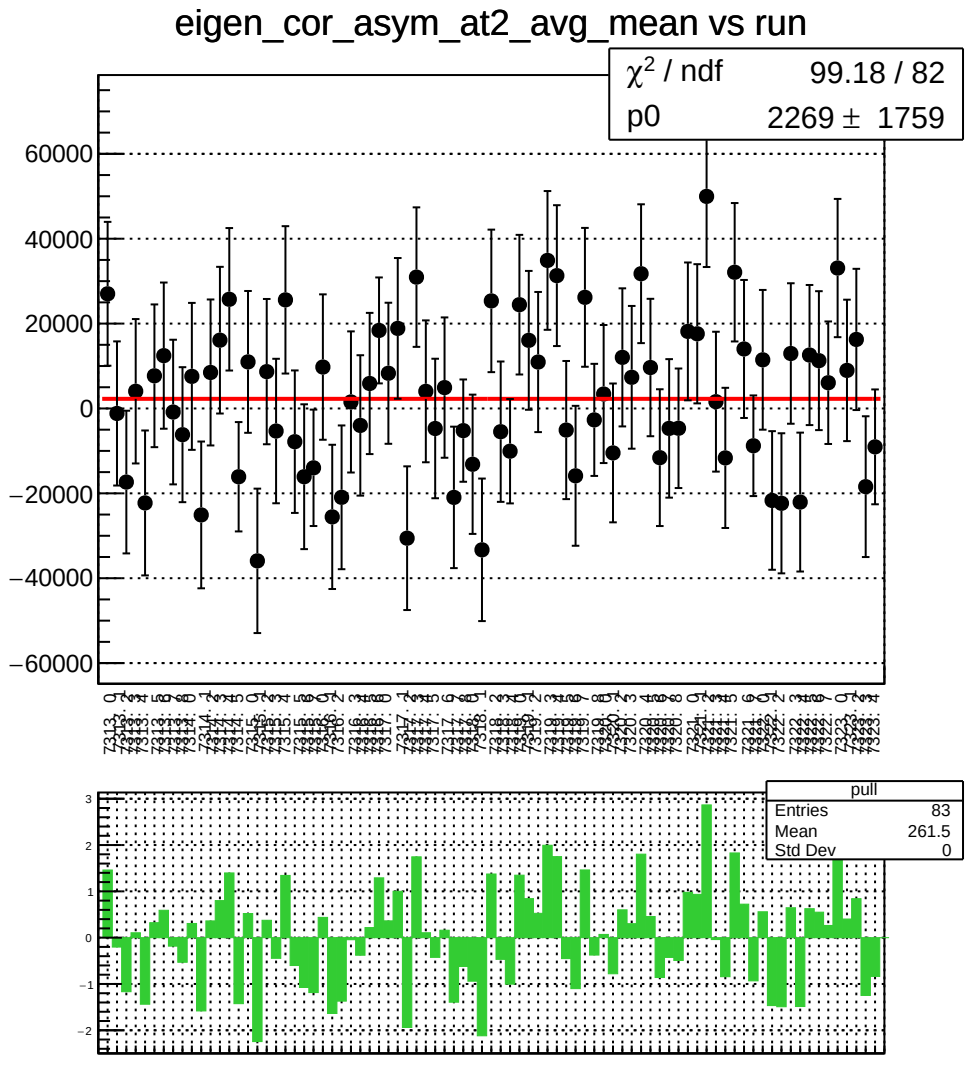

pull1D
Entries 83
Mean 0.01556
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

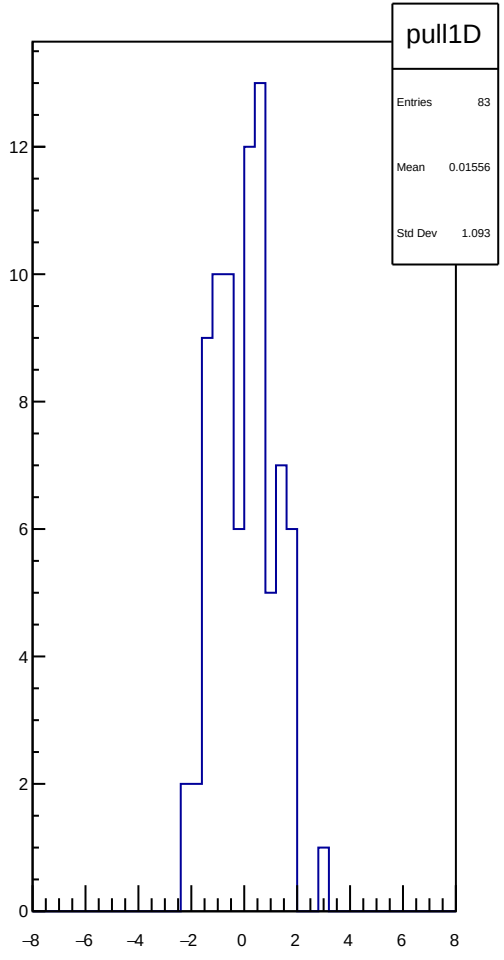

cor_asym_at2_avg_rms vs run
χ² / ndf 559.7 / 82
p0 1579 ± 1.244
1660
1640
1620
1600
1580
1560
1540
1520

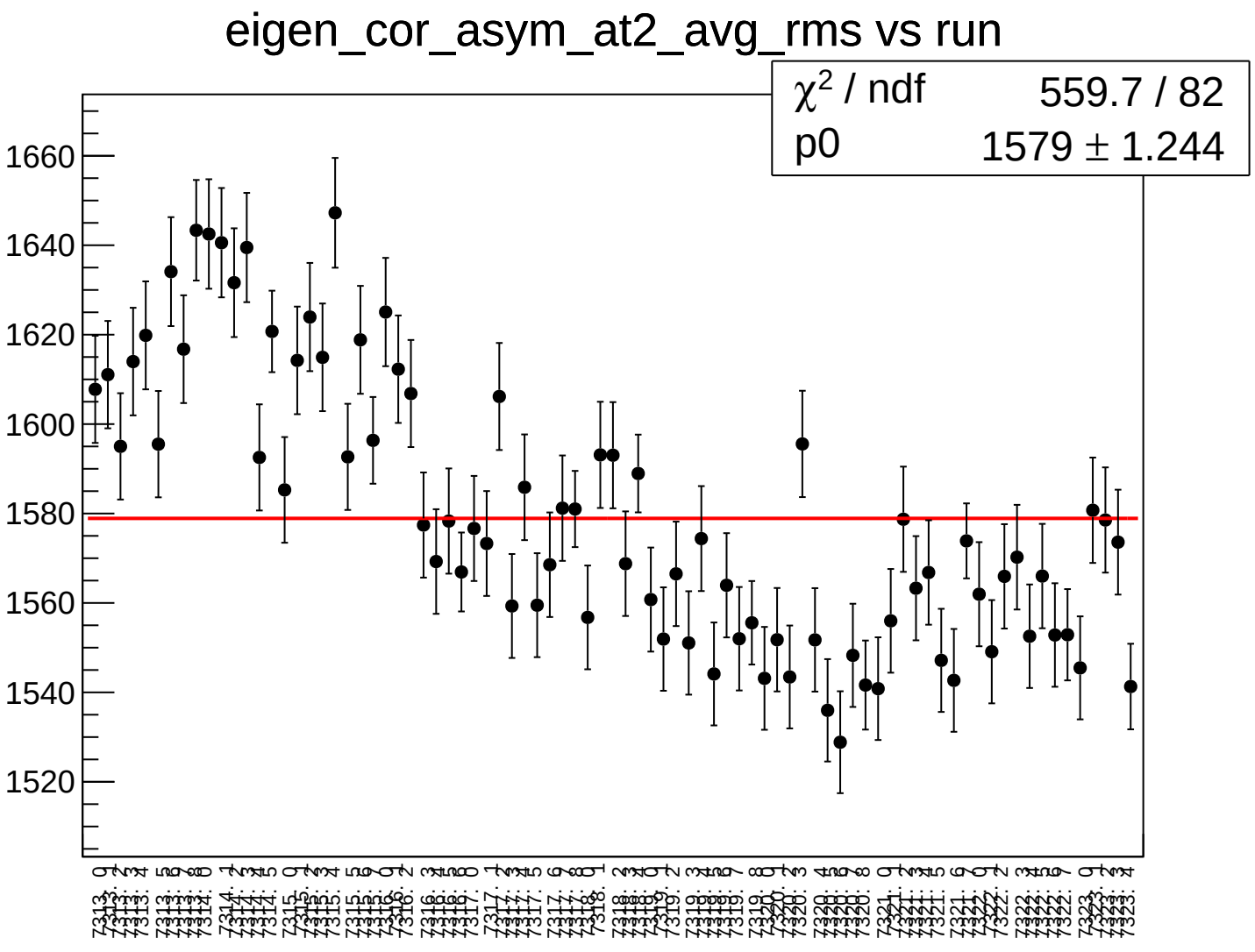

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.15 / 82
p0 1.633e+04 ± 1.396e+04
400
200
0
−200
−400
pull
Entries 83
Mean 1190
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

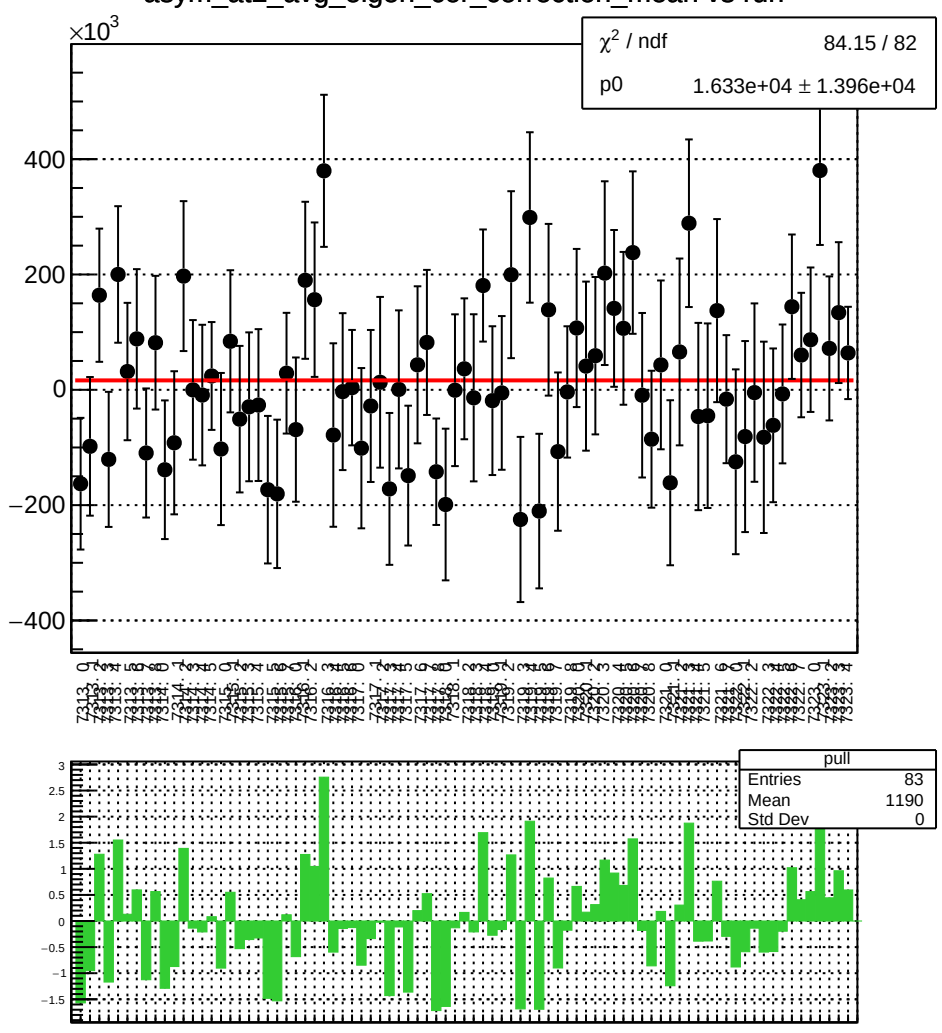

pull1D
Entries 83
Mean 0.004153
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

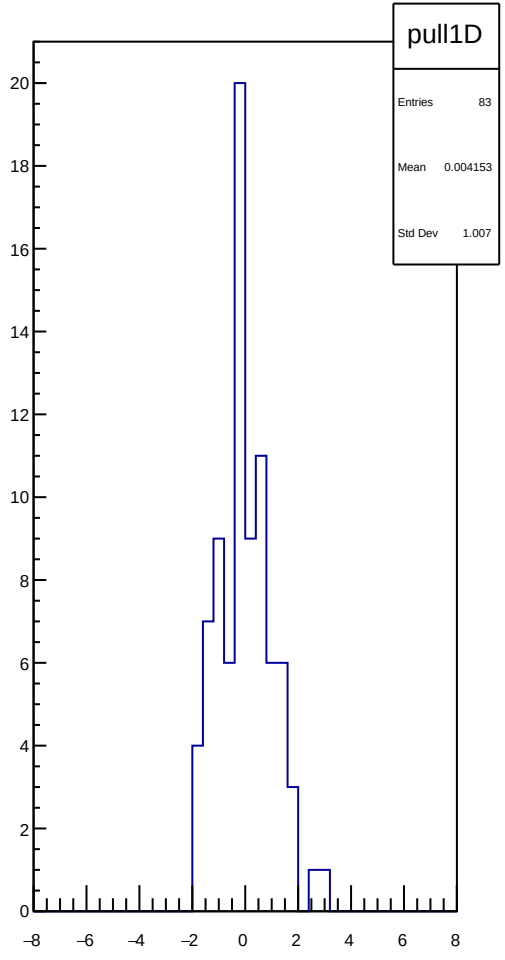

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.671e+04 / 82
p0 1.247e+04 ± 9.874
16000
15000
14000
13000
12000
11000
10000
9000

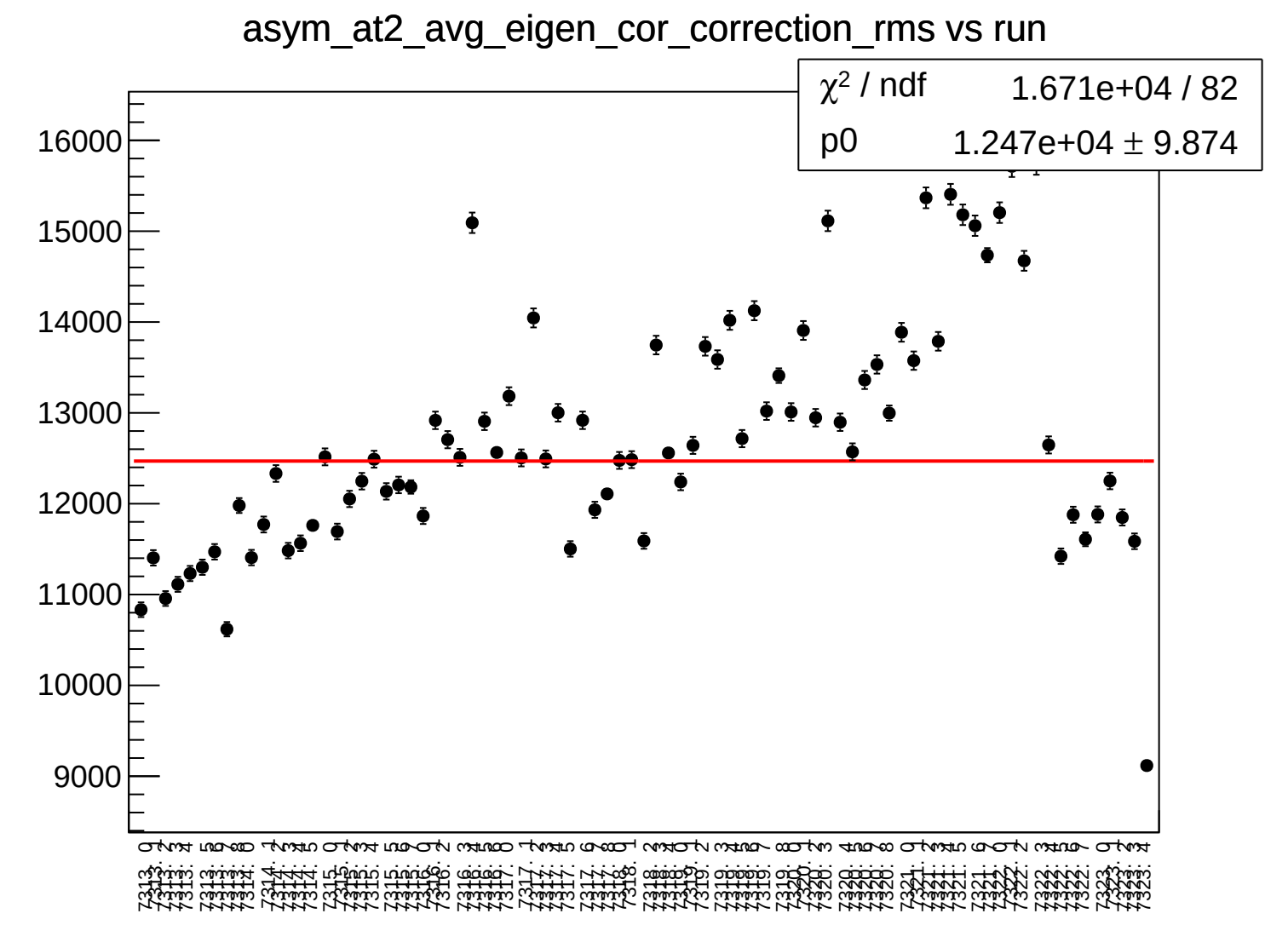

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 99.18 / 82
p0 2269 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 261.5
Std Dev 0
3
2
1
0
−1
−2

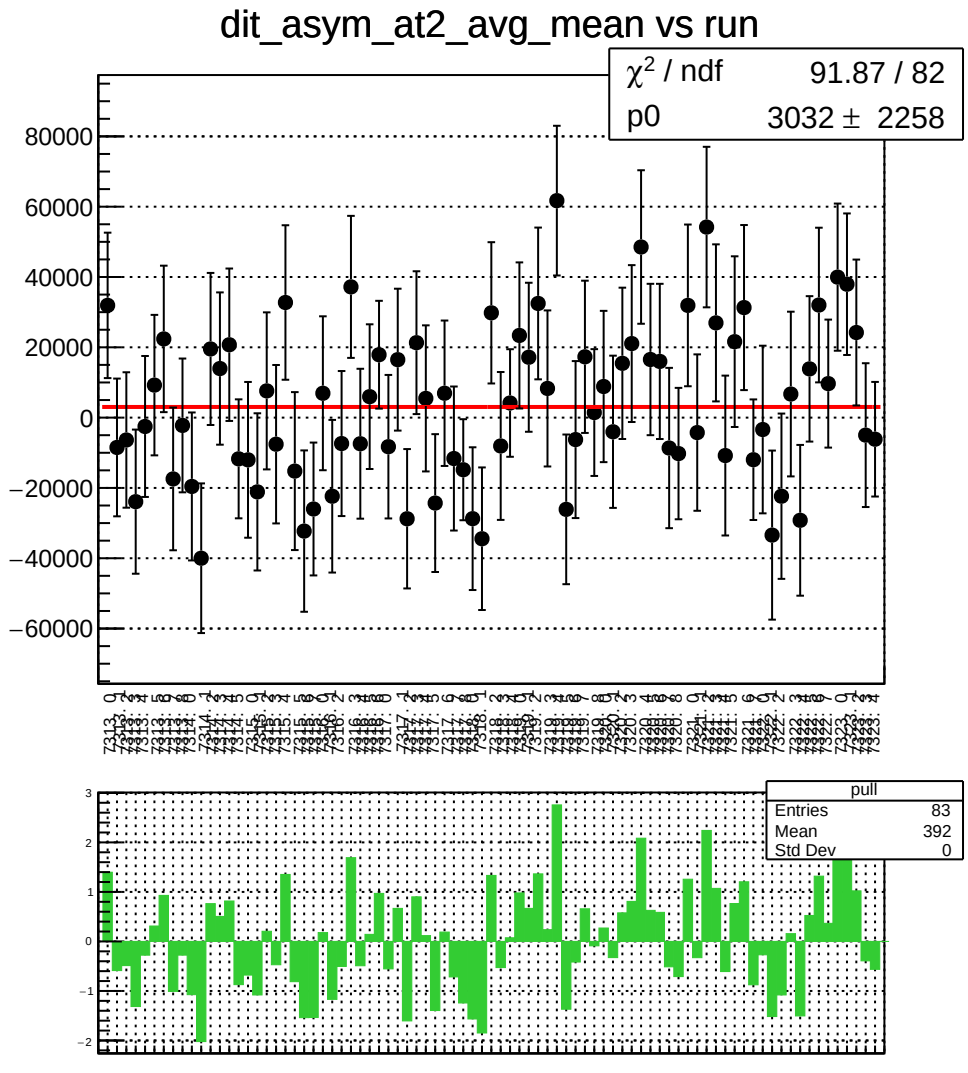

pull1D
Entries 83
Mean 0.01556
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

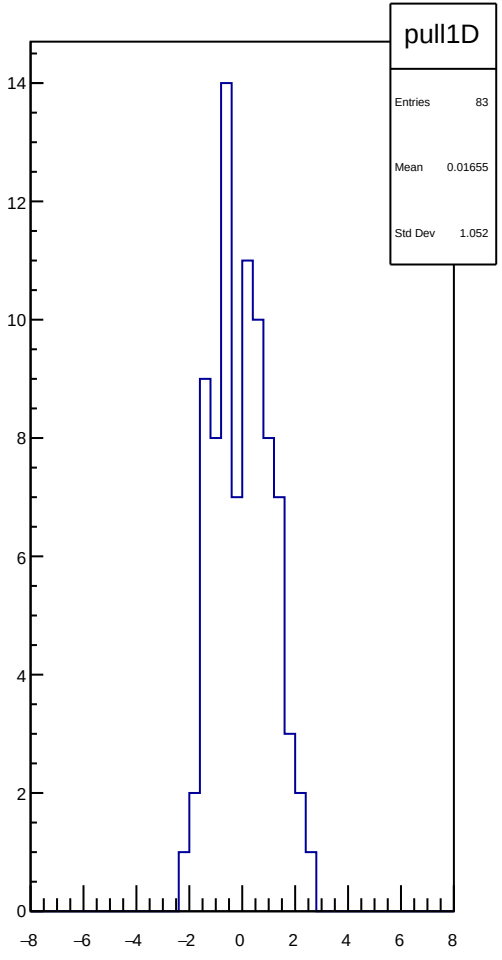

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 559.7 / 82
p0 1579 ± 1.244
1660
1640
1620
1600
1580
1560
1540
1520

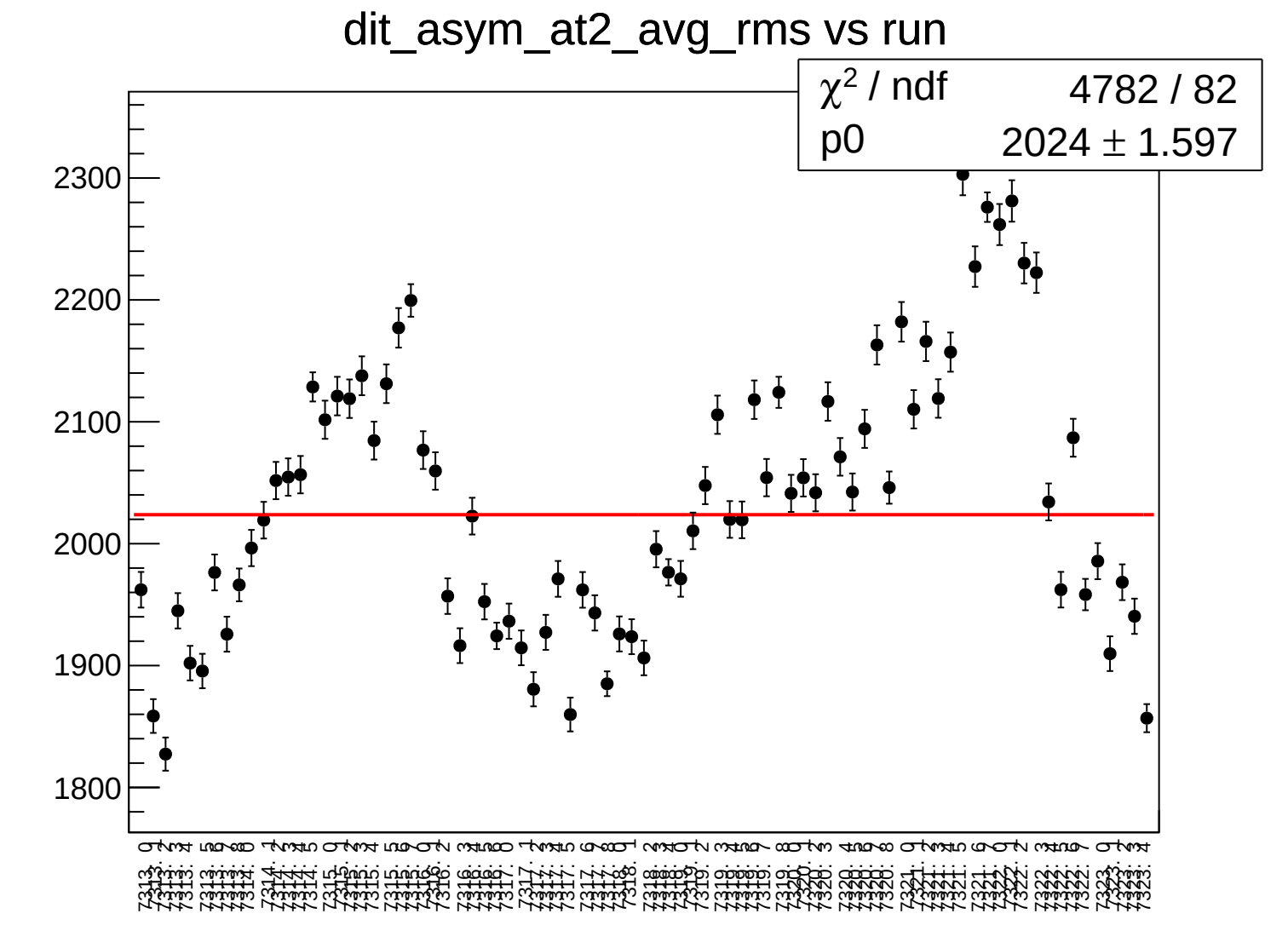

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.15 / 82
p0 1.633e+04 ± 1.396e+04
400
200
0
−200
−400
pull
Entries 83
Mean 1190
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

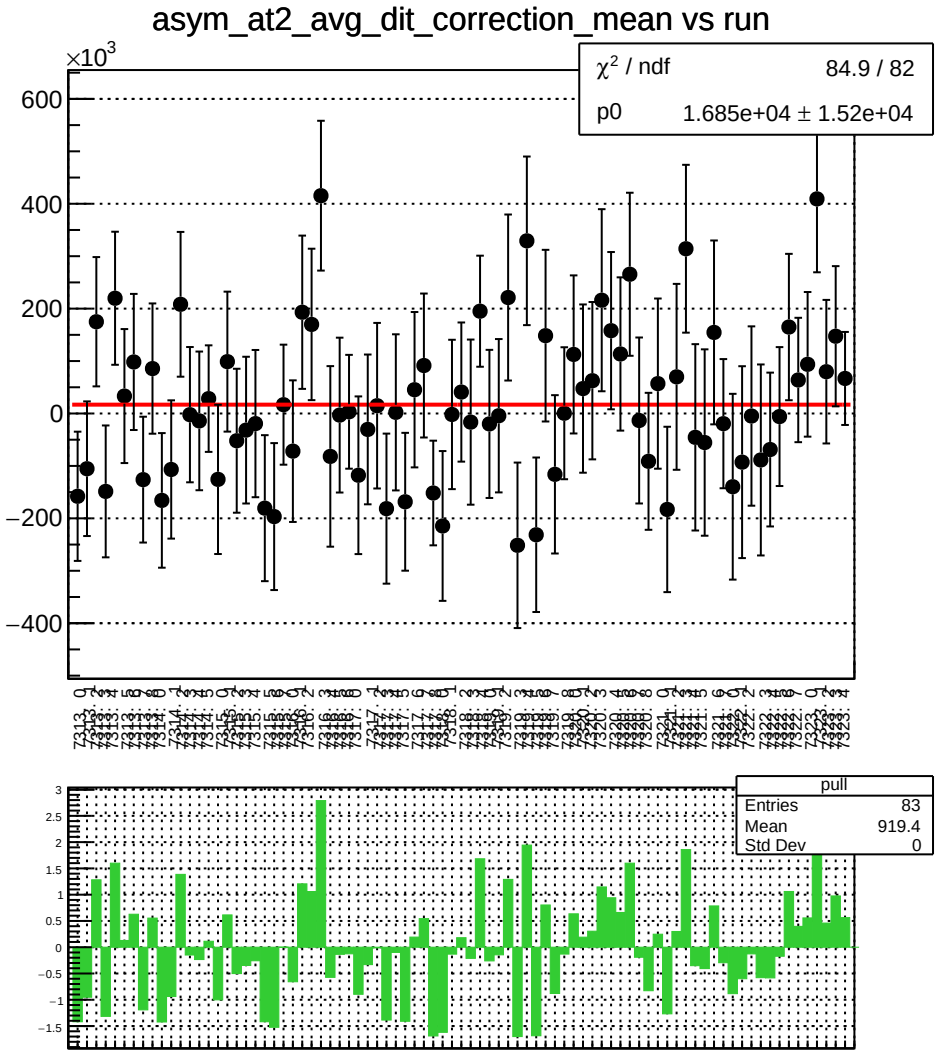

pull1D
Entries 83
Mean 0.004153
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

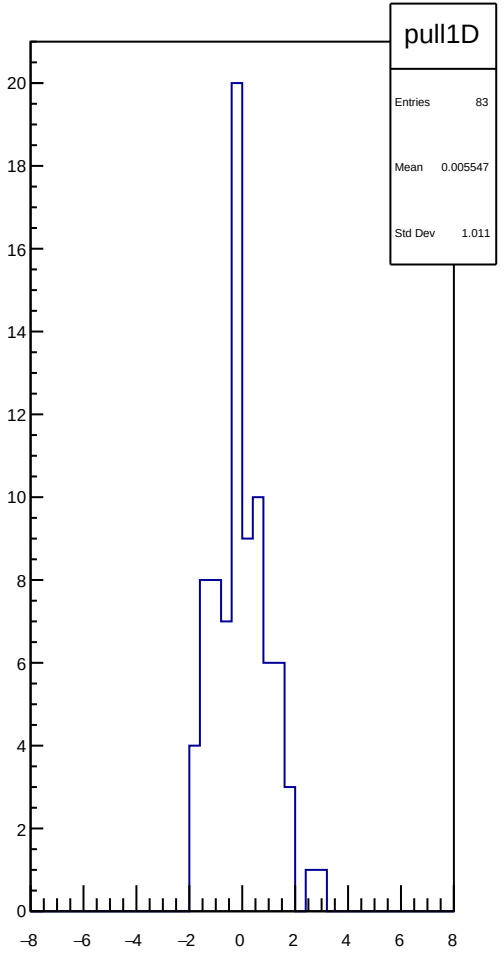

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.671e+04 / 82
p0 1.247e+04 ± 9.874
16000
15000
14000
13000
12000
11000
10000
9000

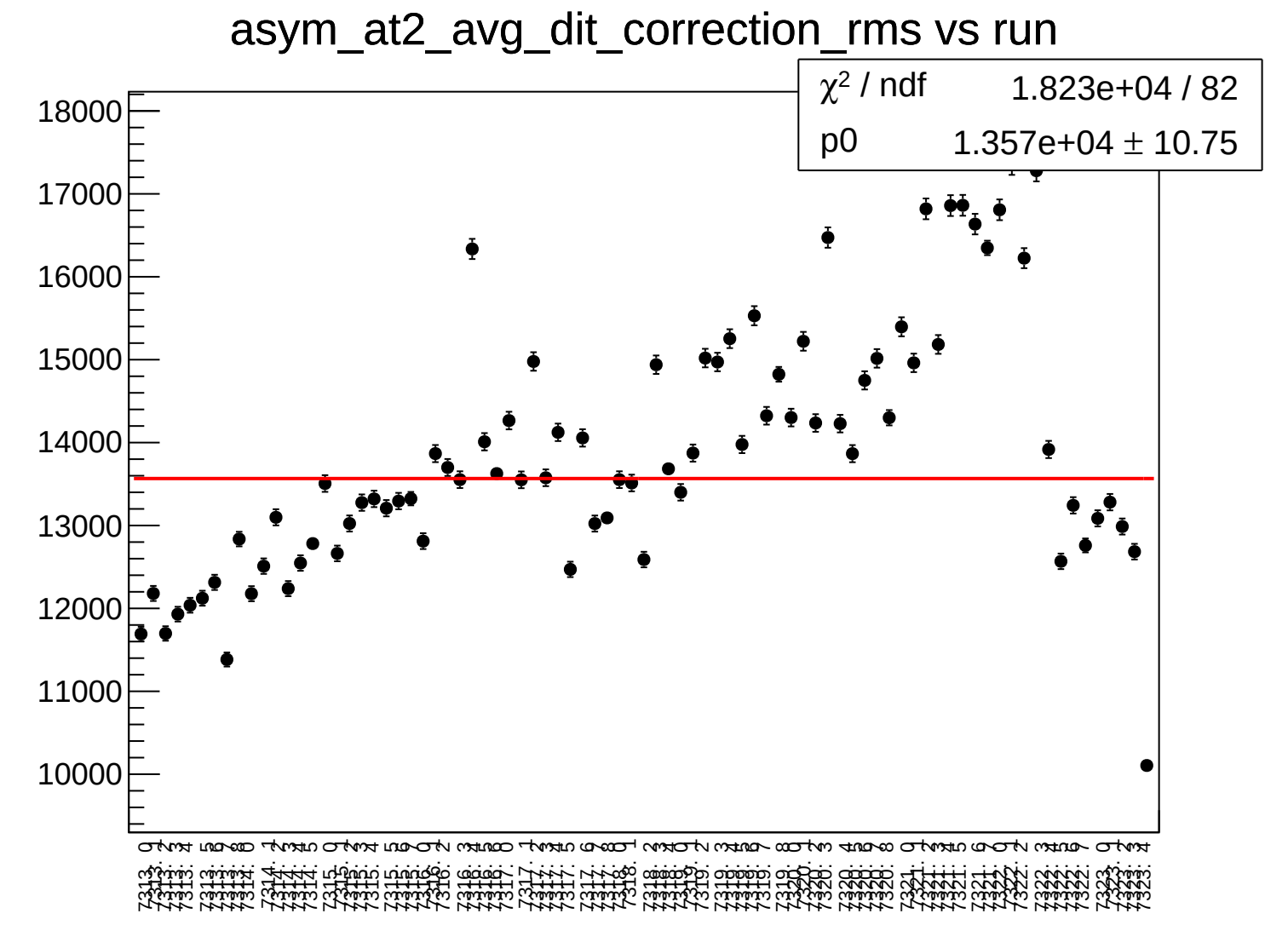

dit_asym_at2_avg_mean vs run
χ² / ndf 91.87 / 82
p0 3032 ± 2258
pull
Entries 83
Mean 392
Std Dev 0

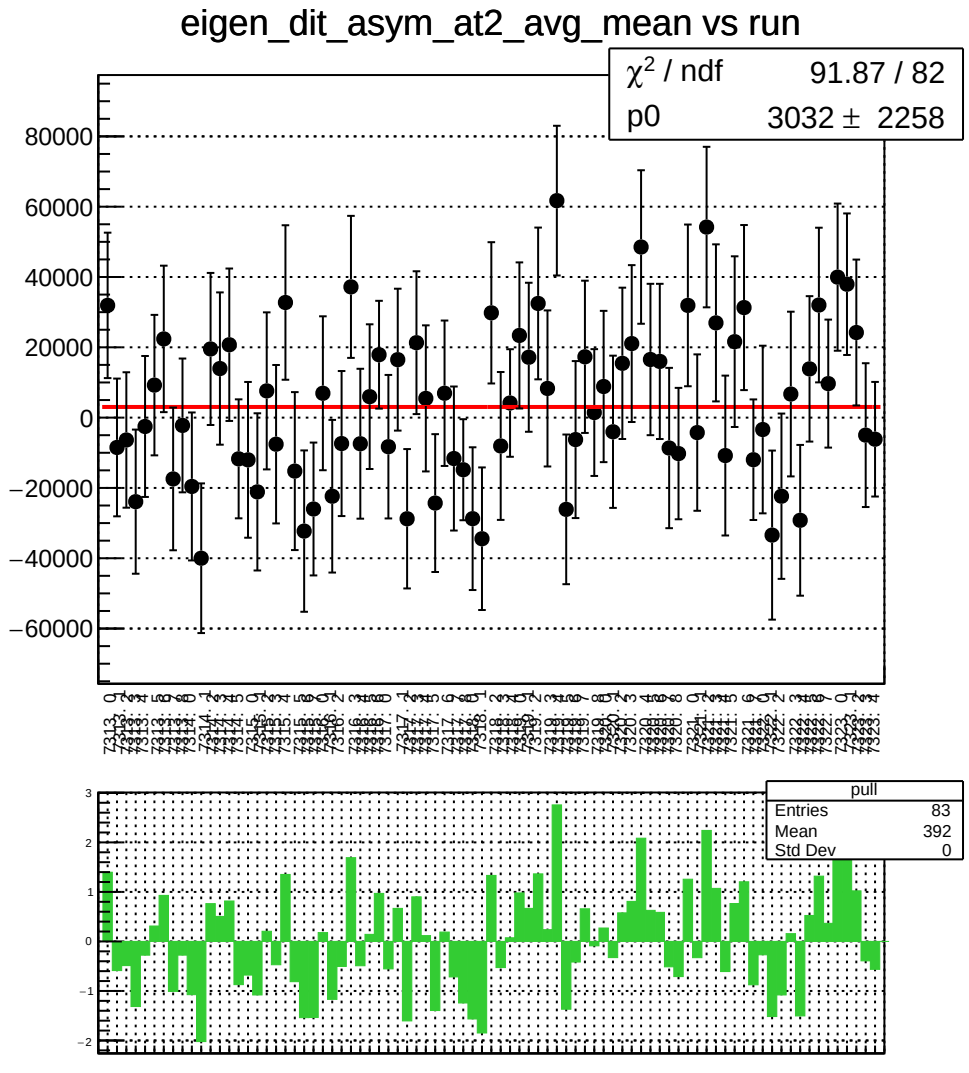

pull1D
Entries 83
Mean 0.01655
Std Dev 1.052

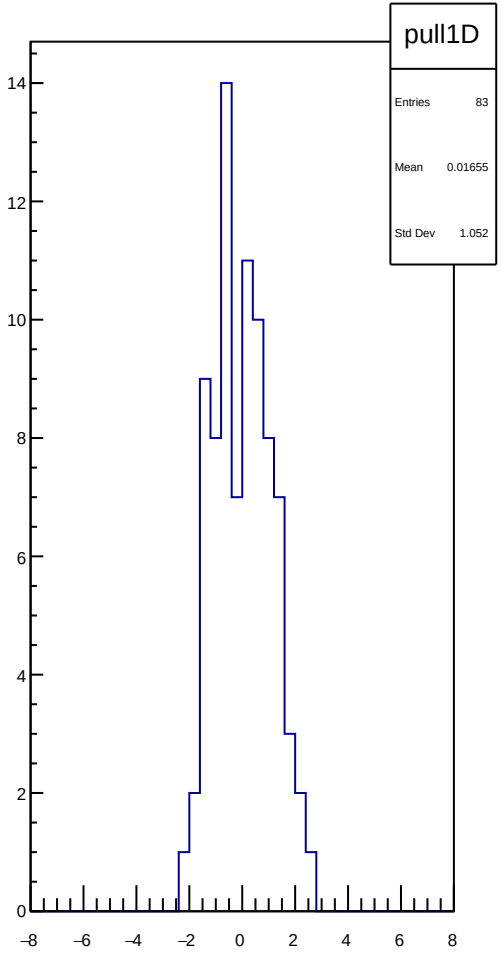

dit_asym_at2_avg_rms vs run
χ² / ndf 4782 / 82
p0 2024 ± 1.597
2300
2200
2100
2000
1900
1800

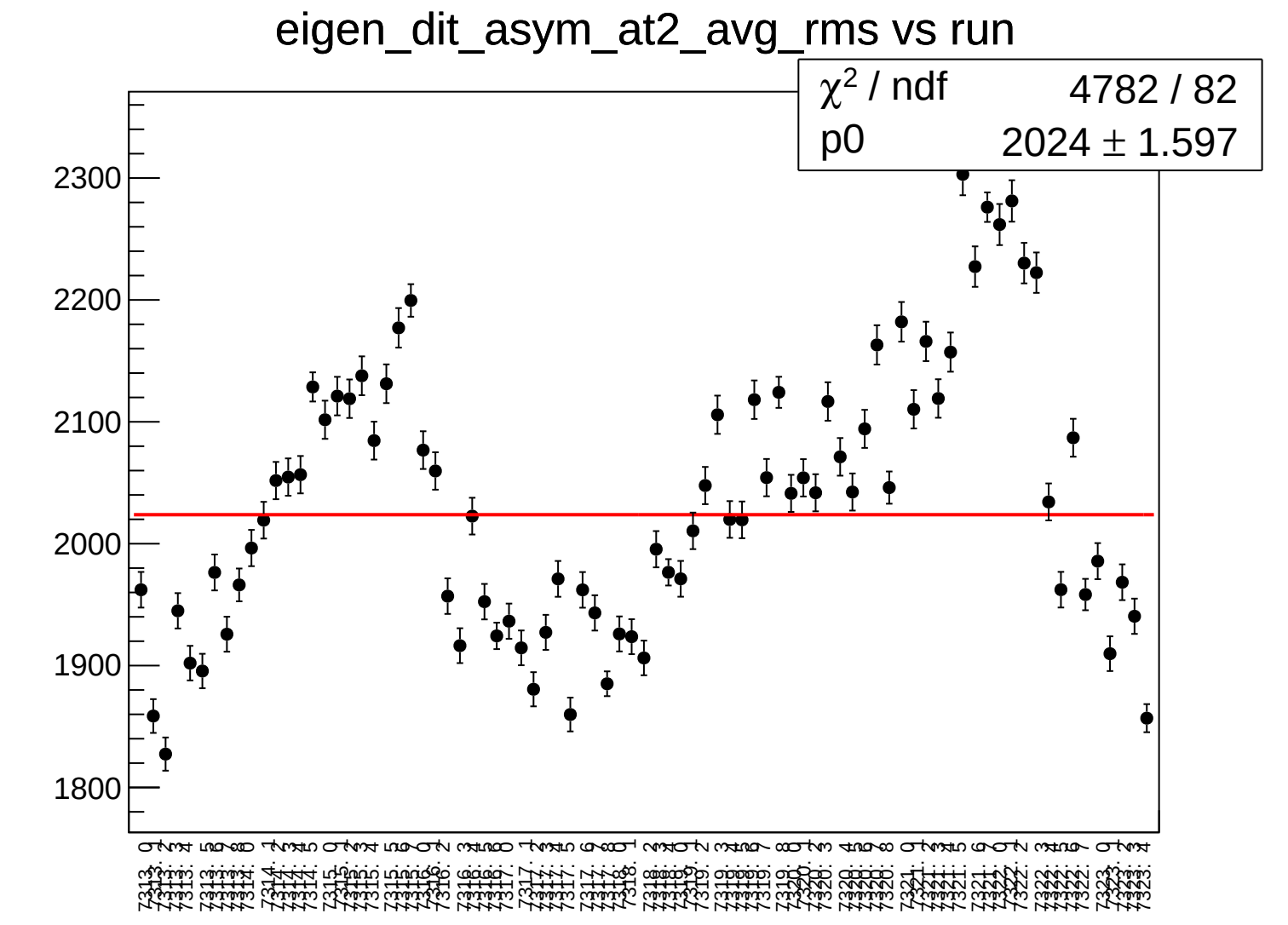

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.9 / 82
p0 1.685e+04 ± 1.52e+04
pull
Entries 83
Mean 919.4
Std Dev 0

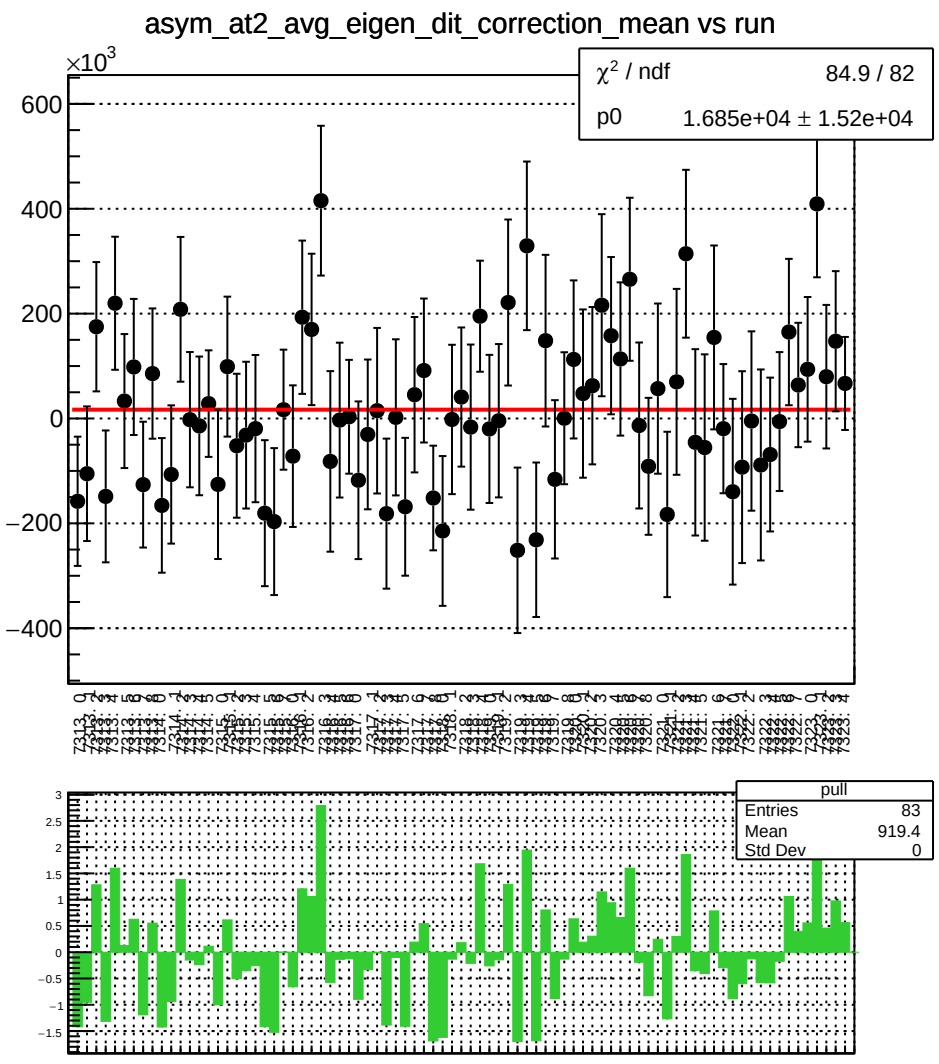

pull1D
Entries 83
Mean 0.005547
Std Dev 1.011

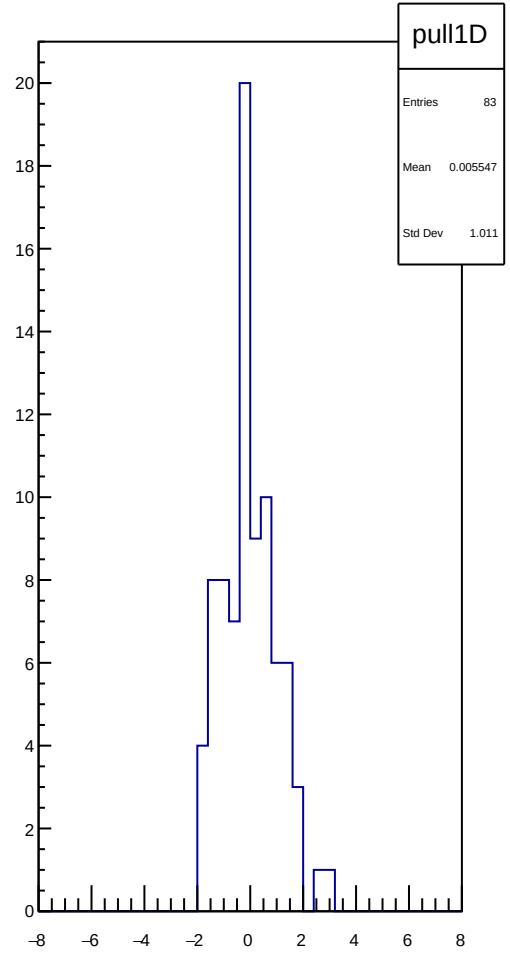

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.823e+04 / 82
p0 1.357e+04 ± 10.75
18000
17000
16000
15000
14000
13000
12000
11000
10000

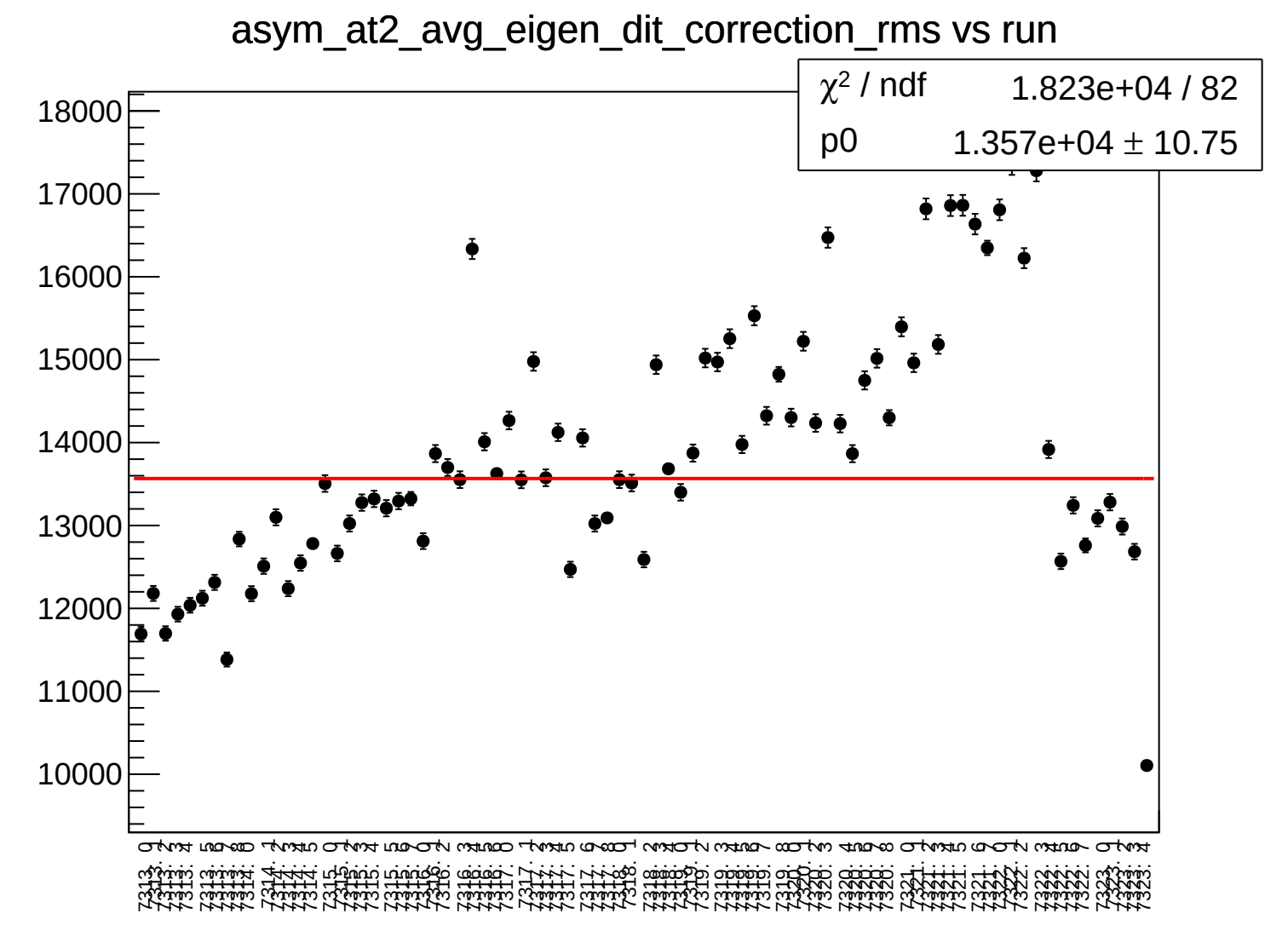

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 91.87 / 82
p0 3032 ± 2258
pull
Entries 83
Mean 392
Std Dev 0

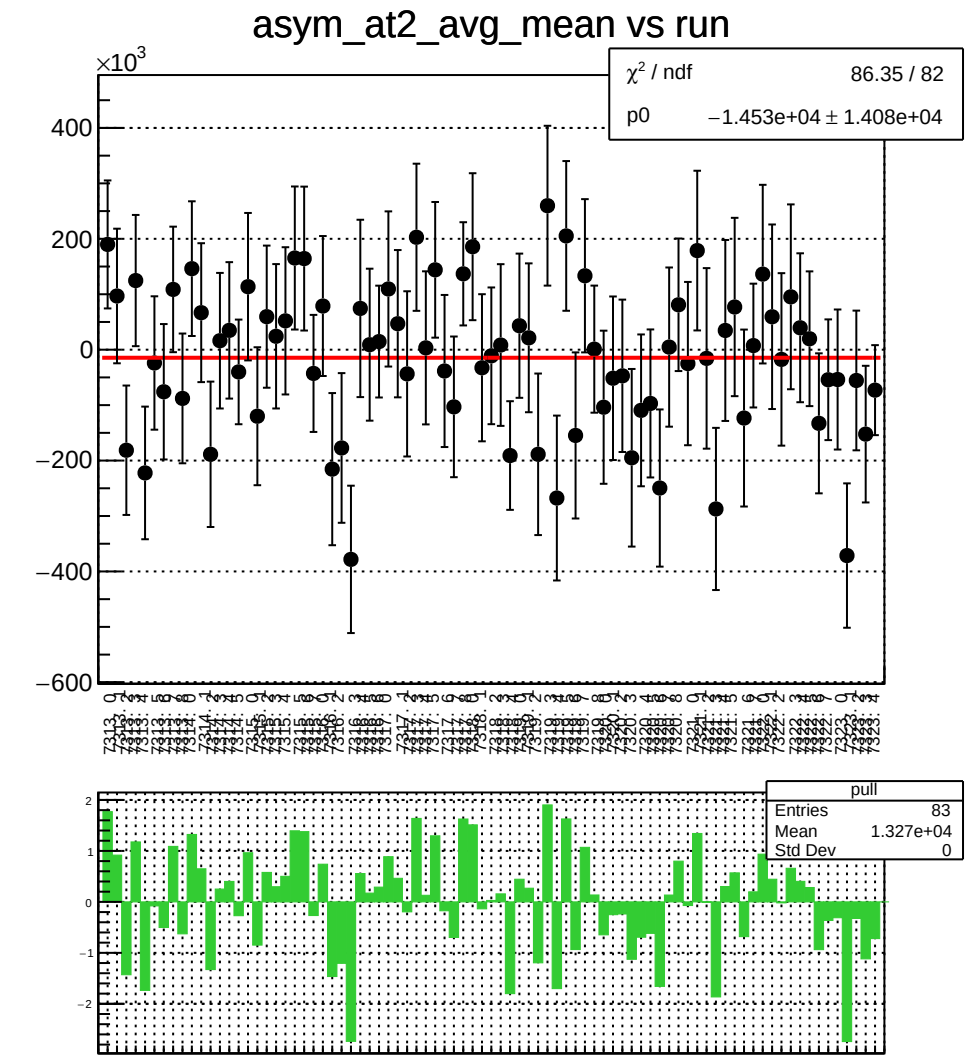

pull1D
Entries 83
Mean 0.01655
Std Dev 1.052

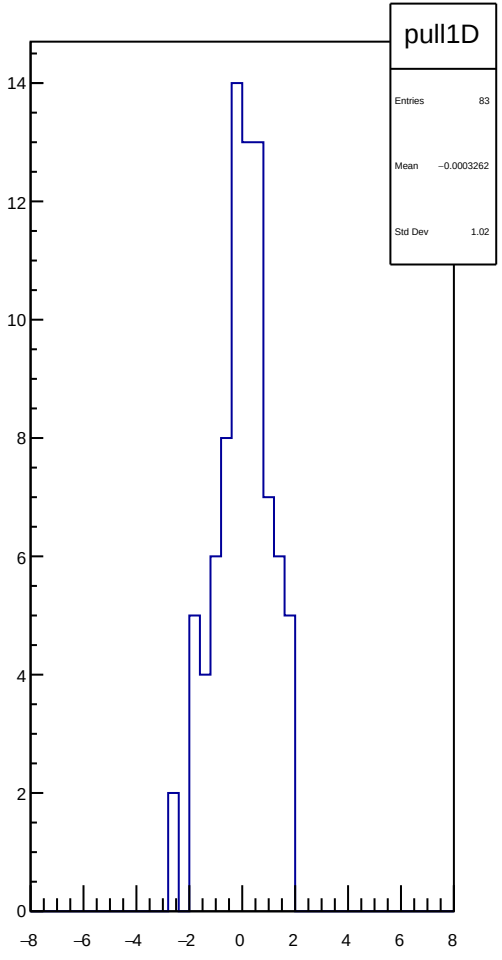

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 4782 / 82
p0 2024 ± 1.597
2300
2200
2100
2000
1900
1800

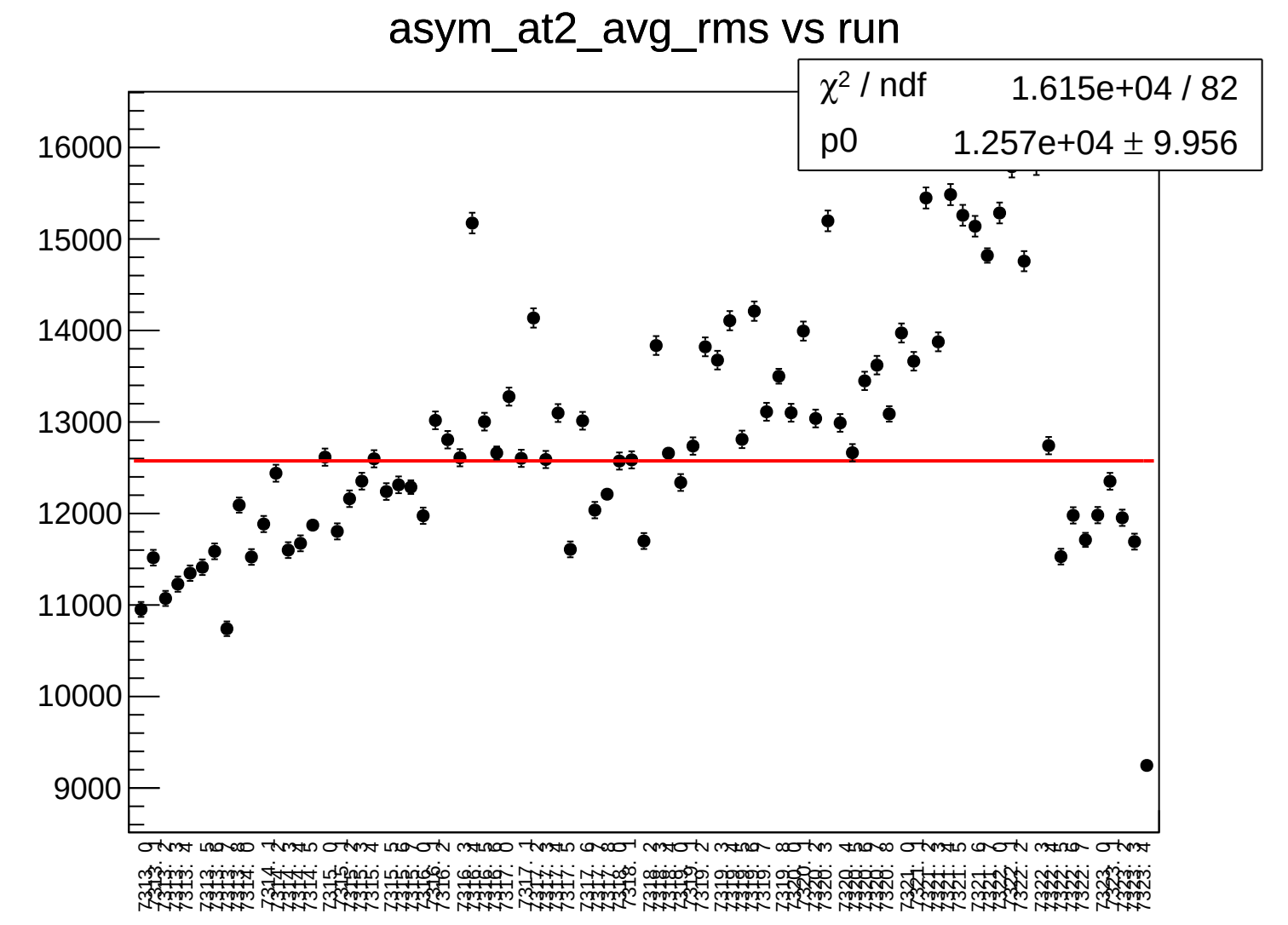

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.9 / 82
p0 1.685e+04 ± 1.52e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 919.4
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

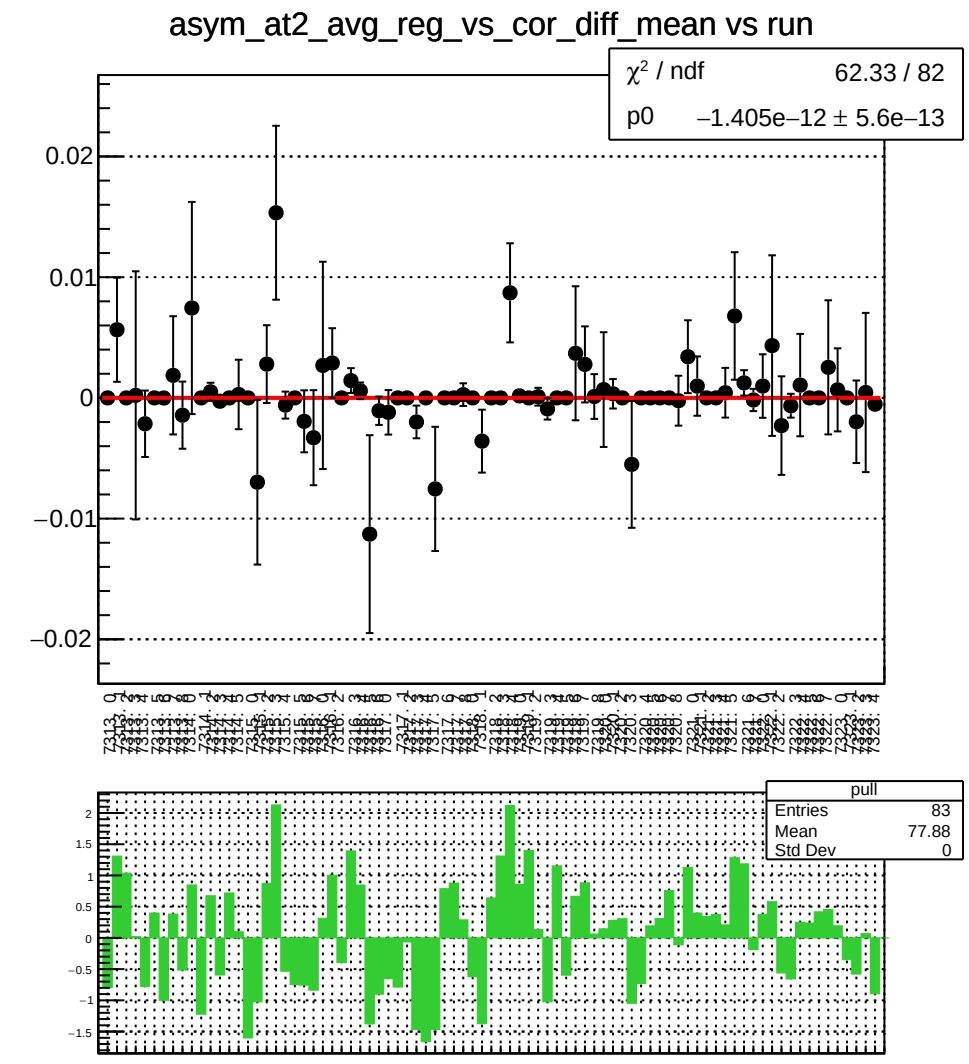

pull1D
Entries 83
Mean 0.005547
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

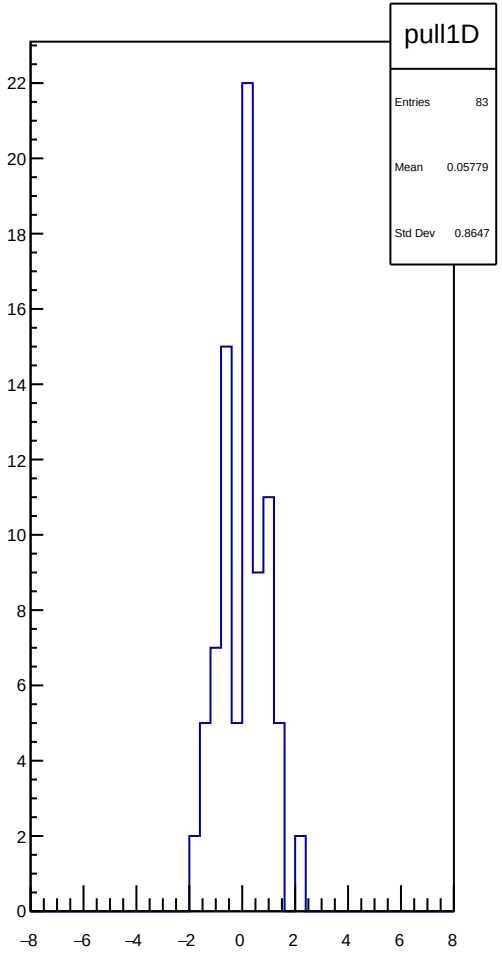

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.823e+04 / 82
p0 1.357e+04 ± 10.75
18000
17000
16000
15000
14000
13000
12000
11000
10000

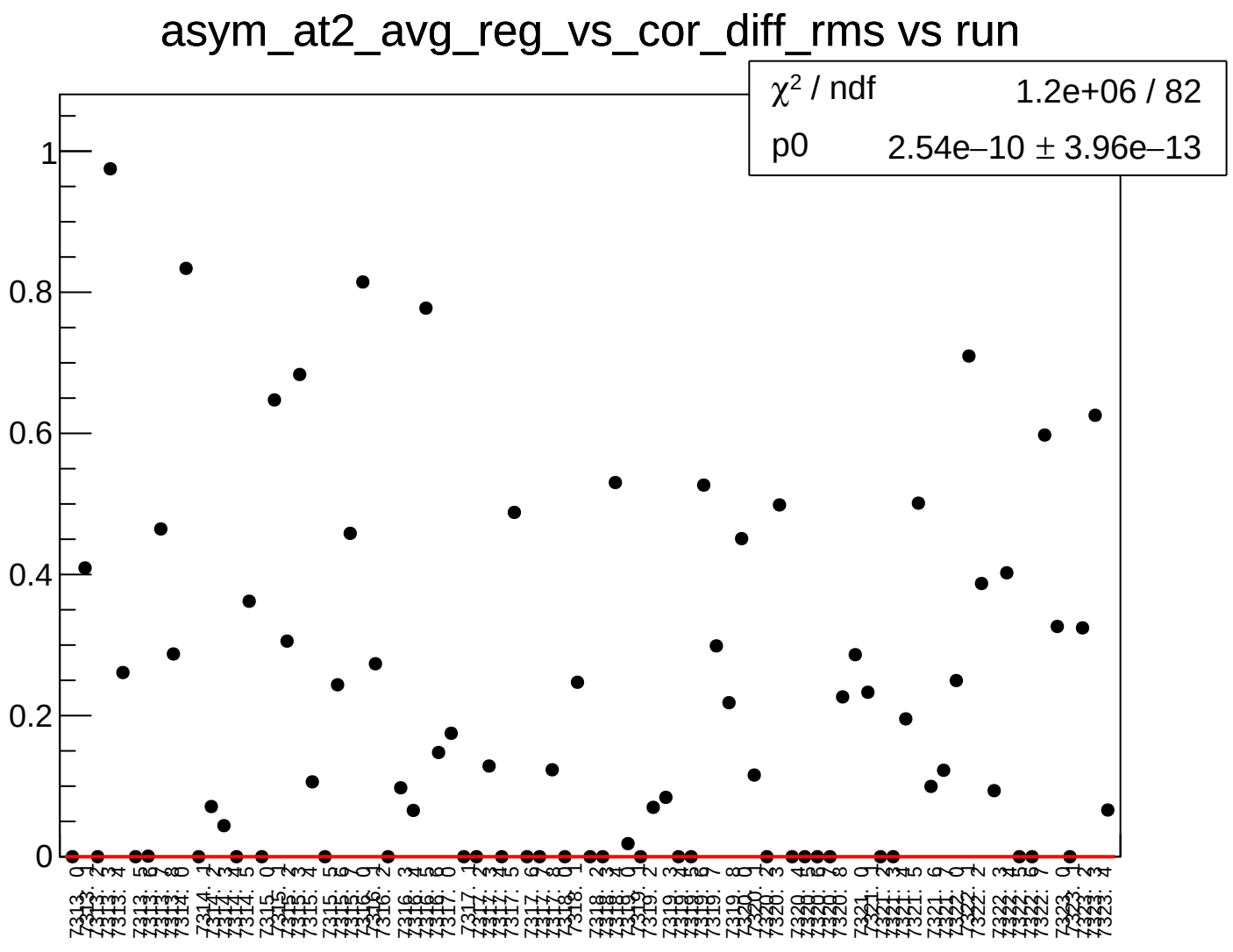

asym_at2_avg_mean vs run
×10^3
χ² / ndf 86.35 / 82
p0 −1.453e+04 ± 1.408e+04
pull
Entries 83
Mean 1.327e+04
Std Dev 0

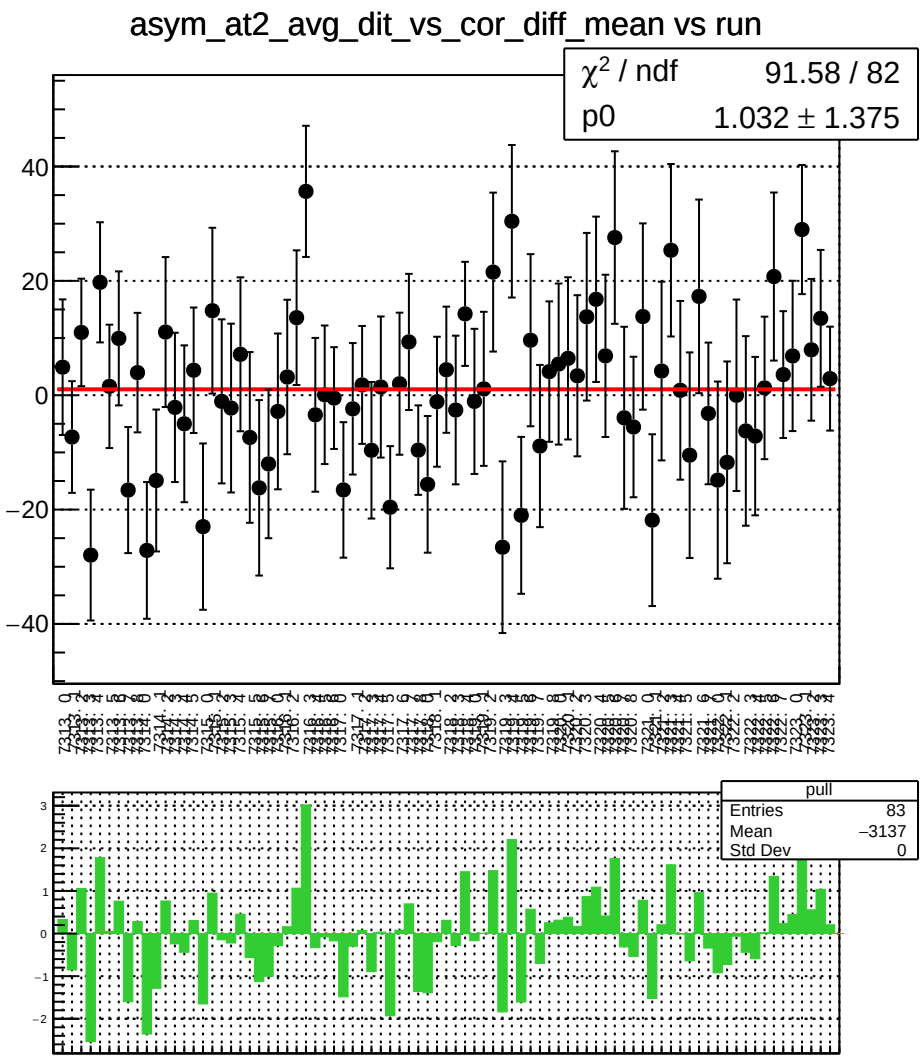

pull1D
Entries 83
Mean −0.0003262
Std Dev 1.02

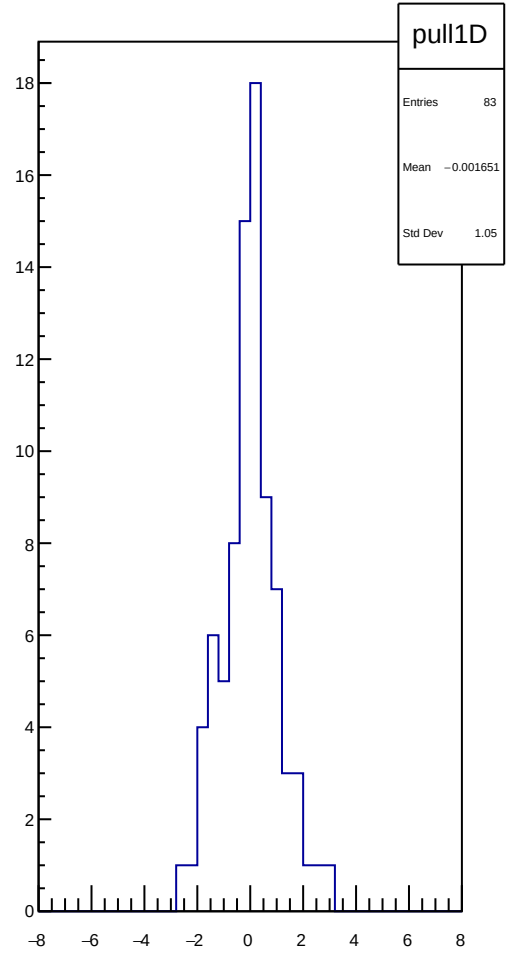

asym_at2_avg_rms vs run
χ² / ndf 1.615e+04 / 82
p0 1.257e+04 ± 9.956
16000
15000
14000
13000
12000
11000
10000
9000

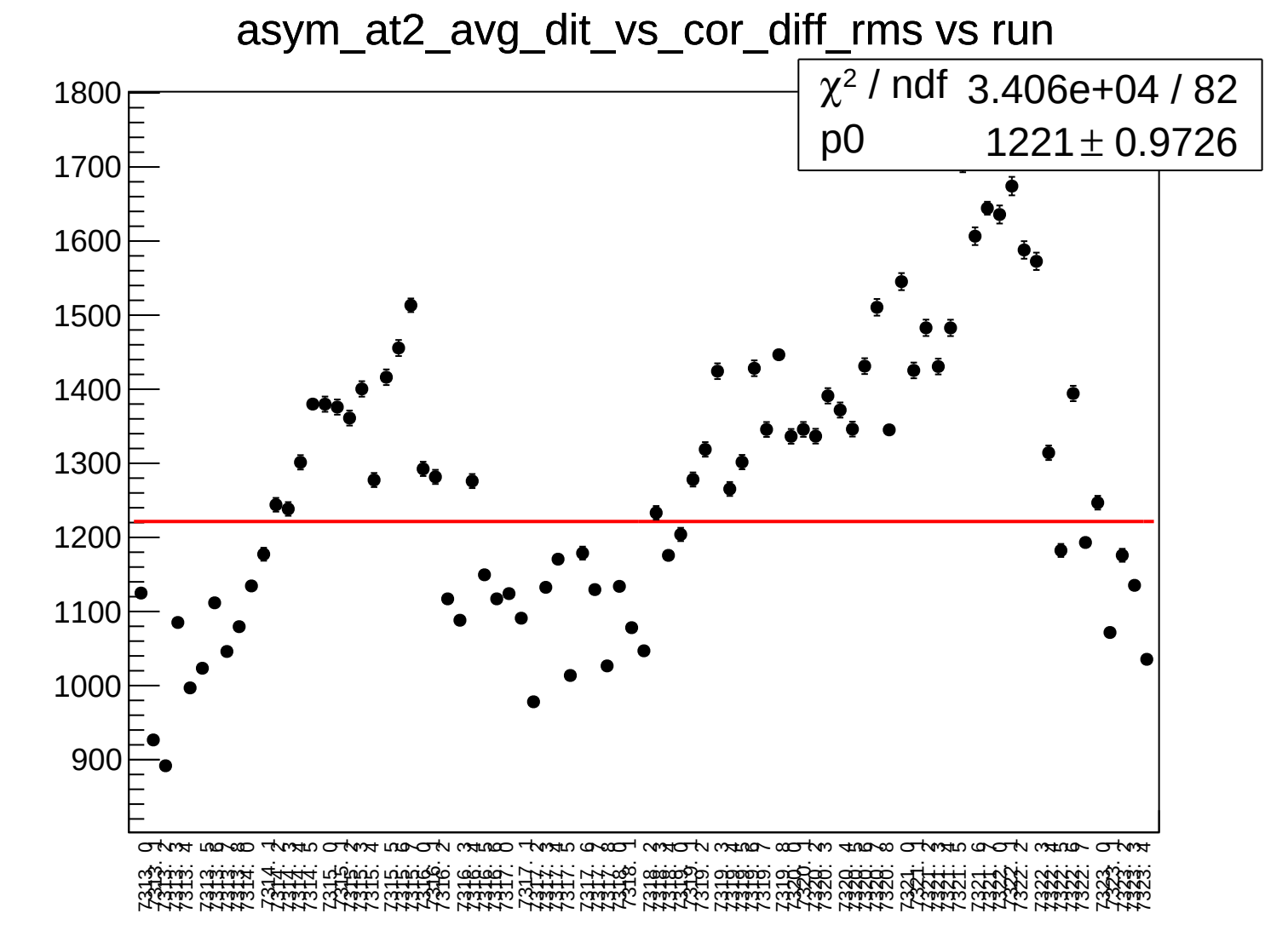

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.33 / 82
p0 −1.405e−12 ± 5.6e−13
pull
Entries 83
Mean 77.88
Std Dev 0

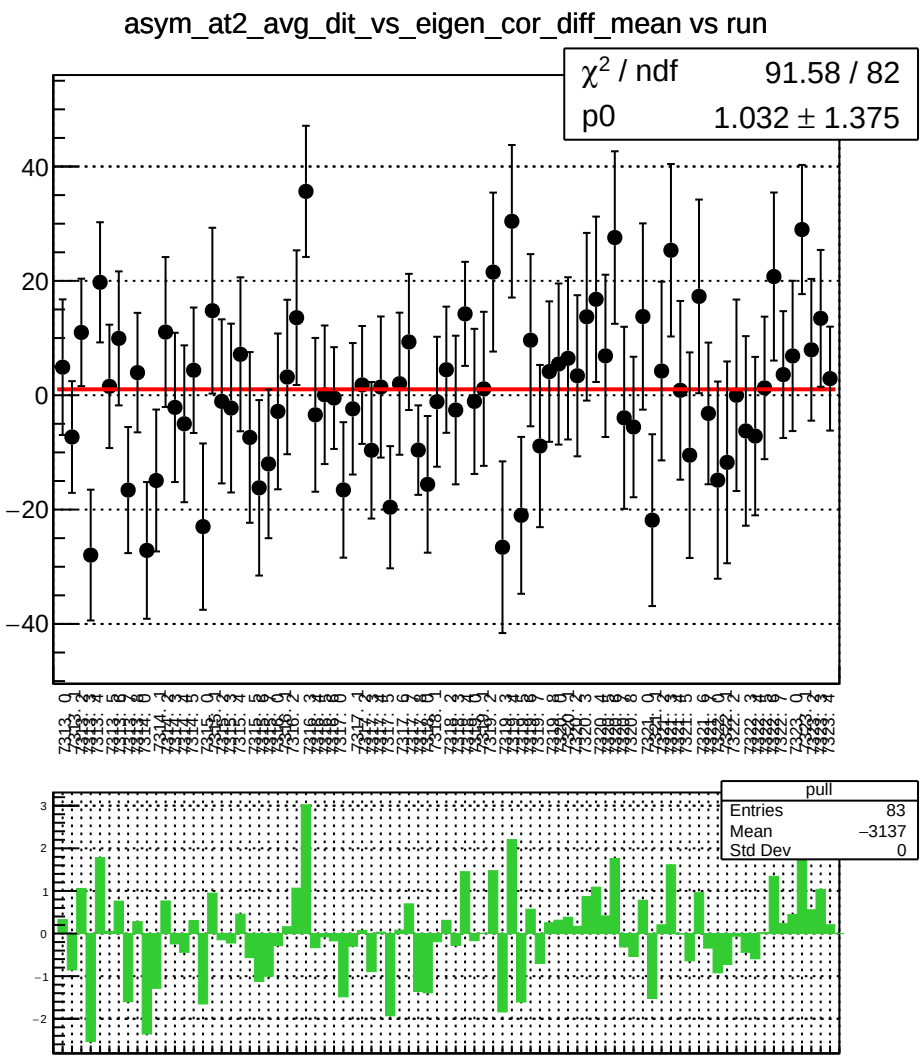

pull1D
Entries 83
Mean 0.05779
Std Dev 0.8647

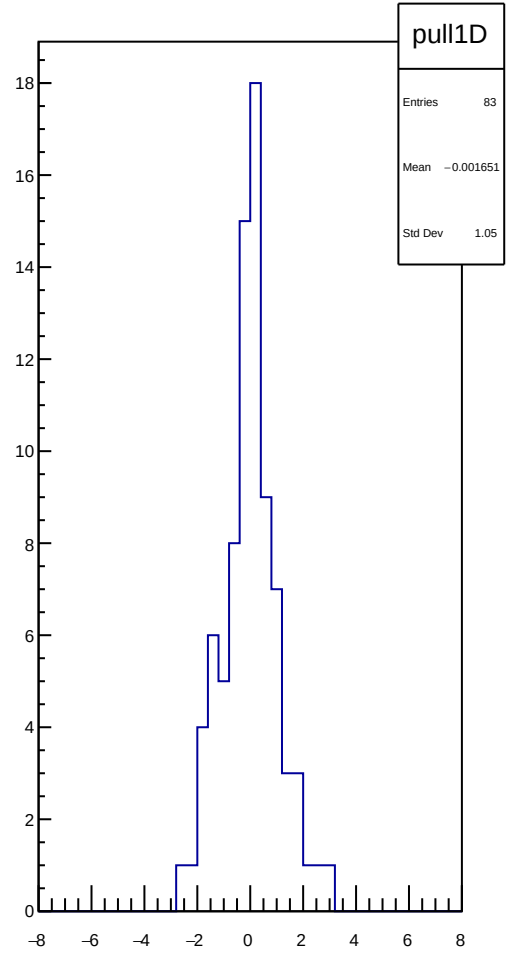

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.2e+06 / 82
p0 2.54e−10 ± 3.96e−13
1
0.8
0.6
0.4
0.2
0

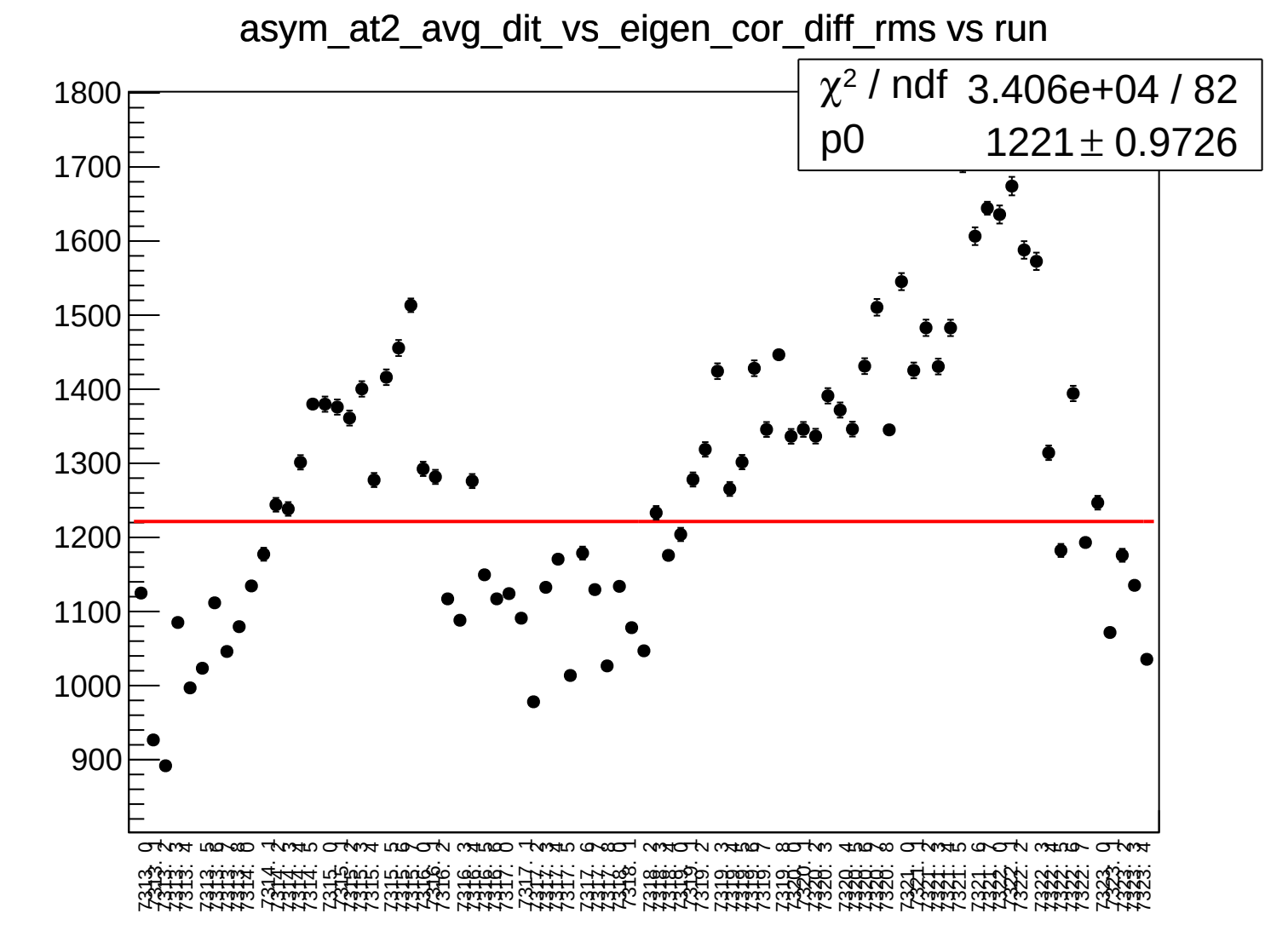

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ^2 / ndf 91.58 / 82
p0 1.032 ± 1.375
pull
Entries 83
Mean −3137
Std Dev 0

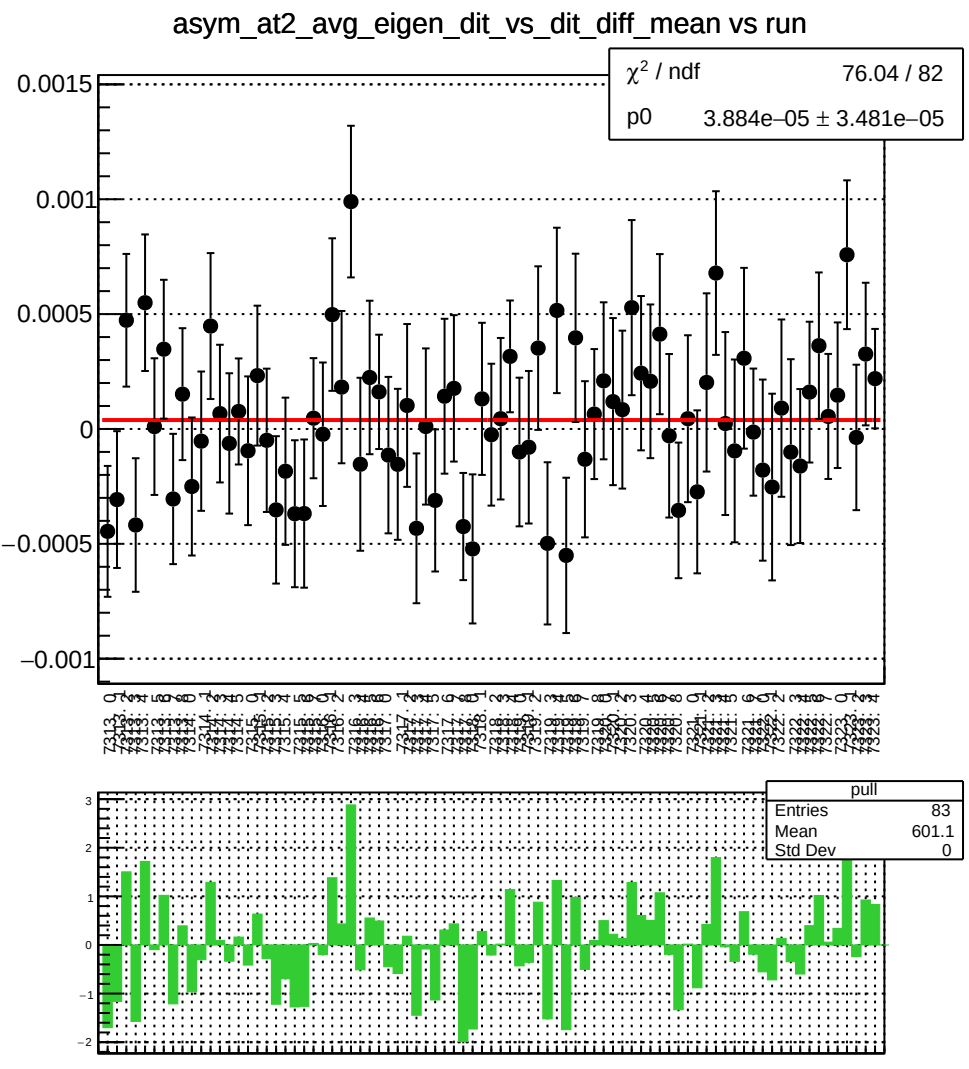

pull1D
Entries 83
Mean −0.001651
Std Dev 1.05

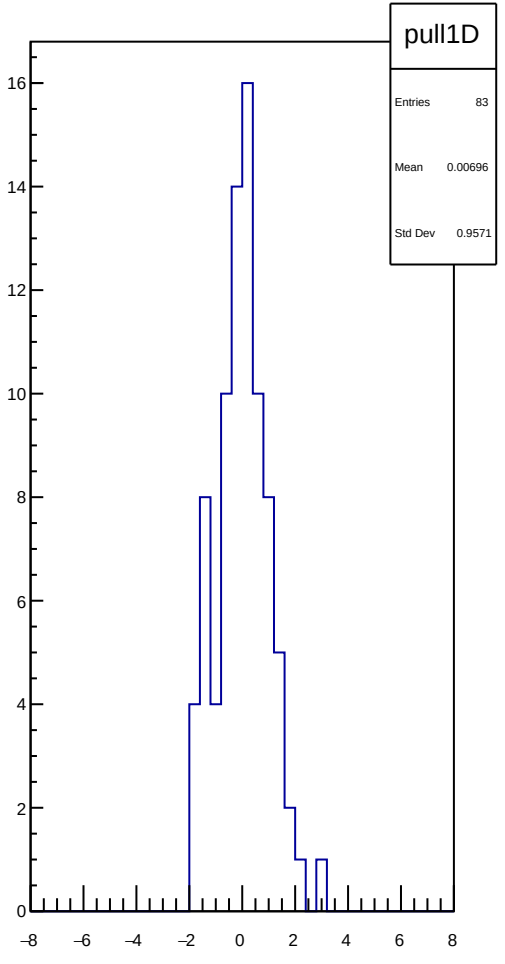

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.406e+04 / 82
p0 1221 ± 0.9726
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

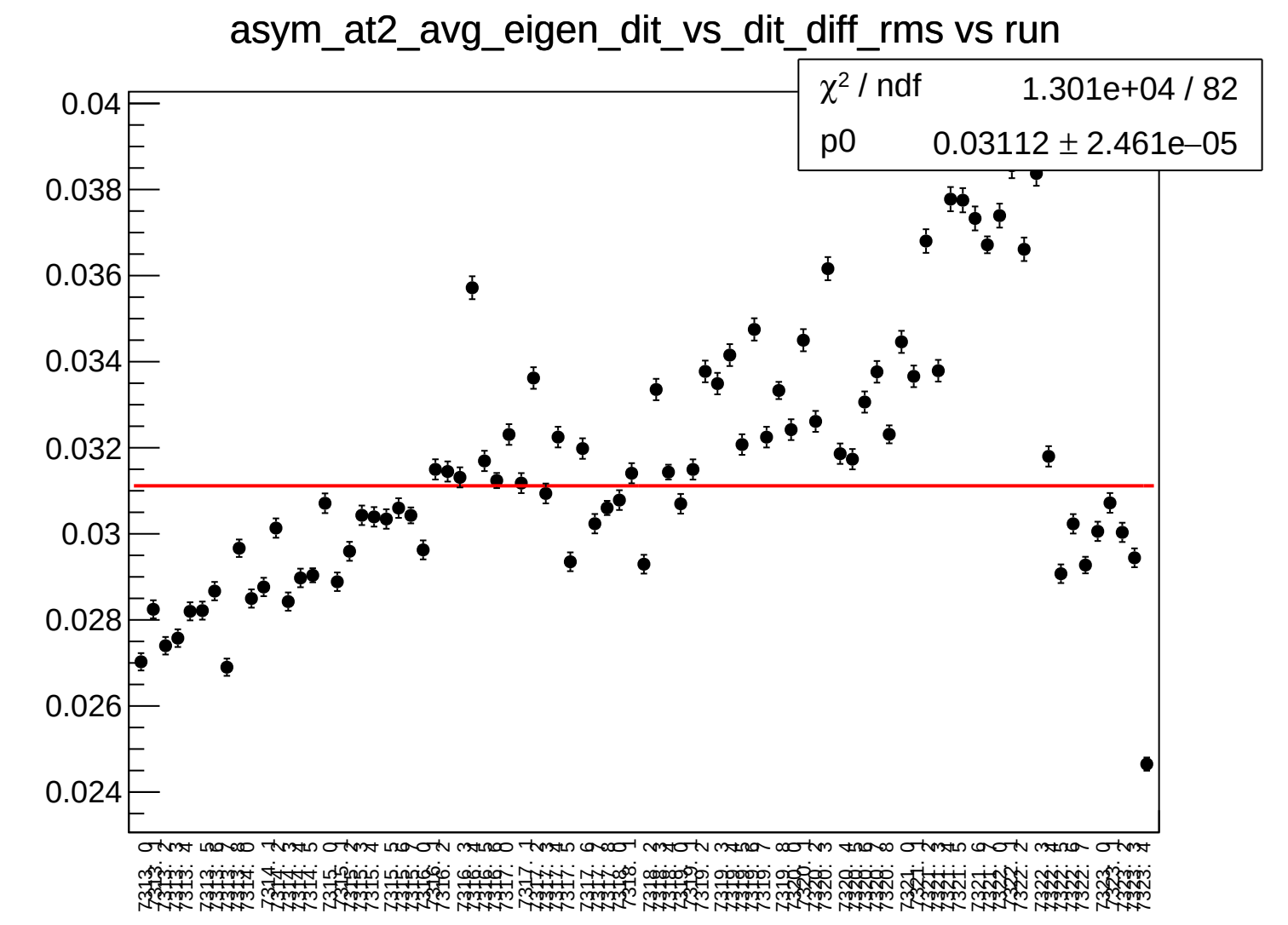

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.58 / 82
p0 1.032 ± 1.375
pull
Entries 83
Mean −3137
Std Dev 0

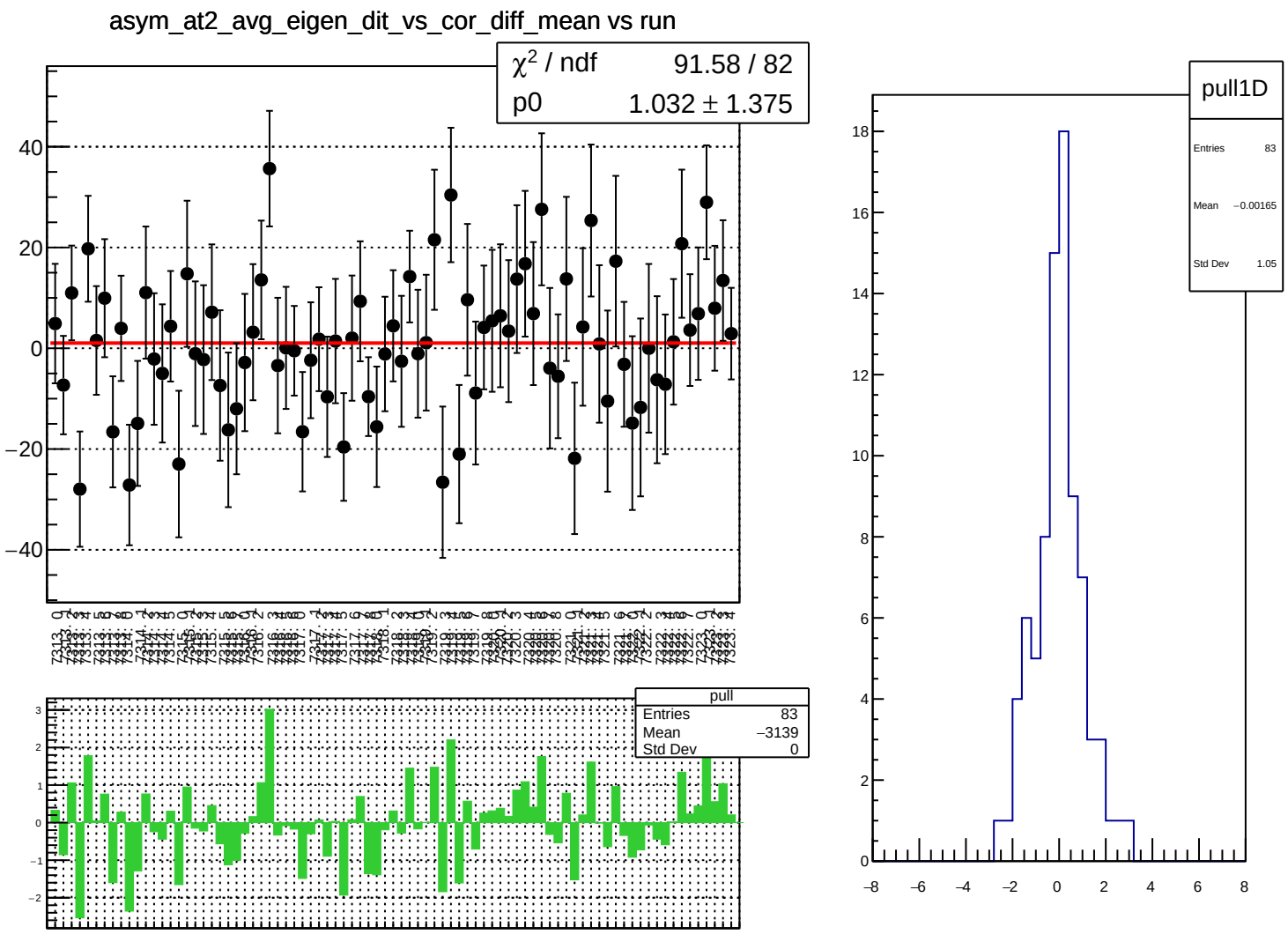

pull1D
Entries 83
Mean −0.001651
Std Dev 1.05

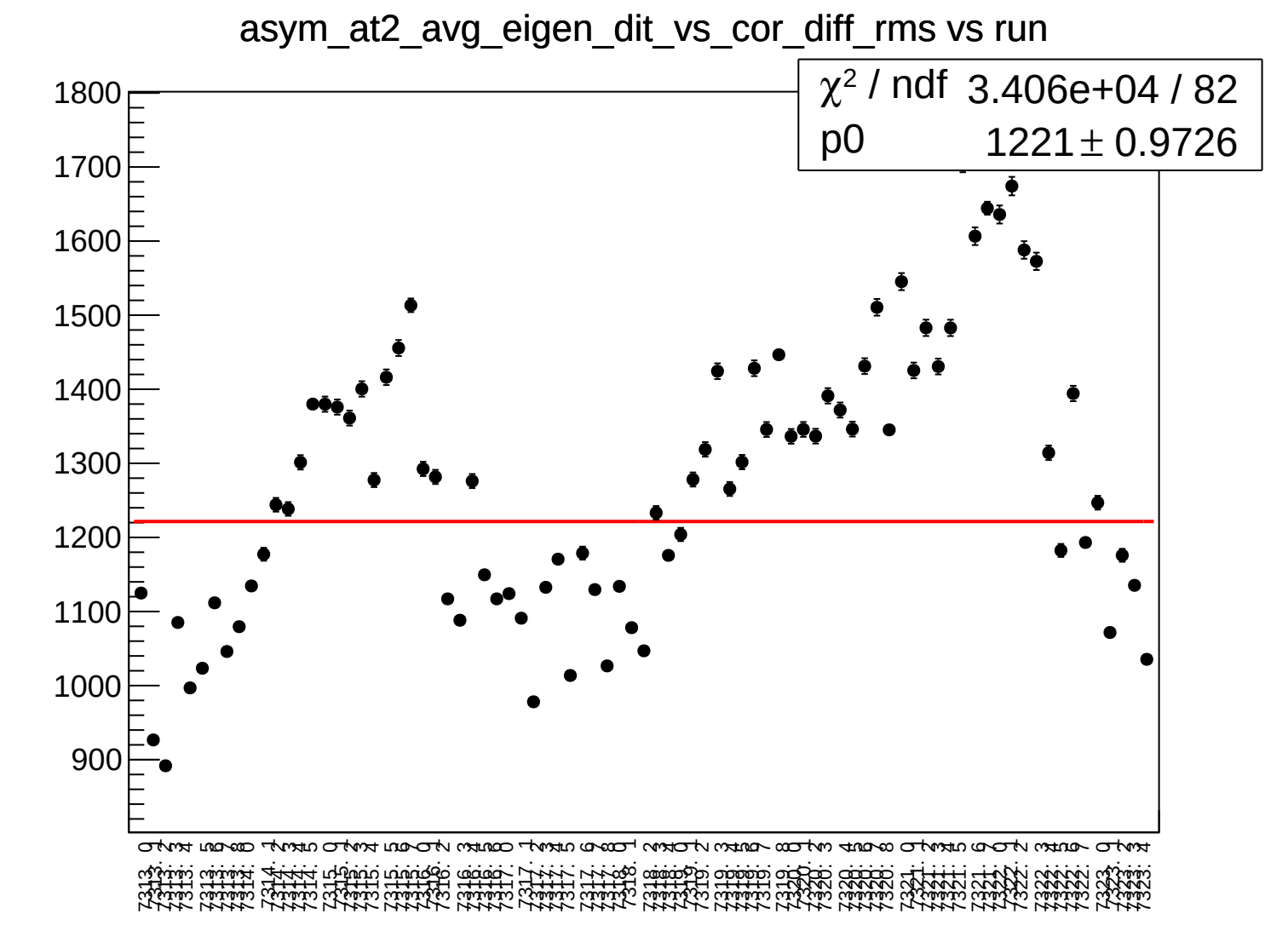

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.406e+04 / 82
p0 1221 ± 0.9726
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

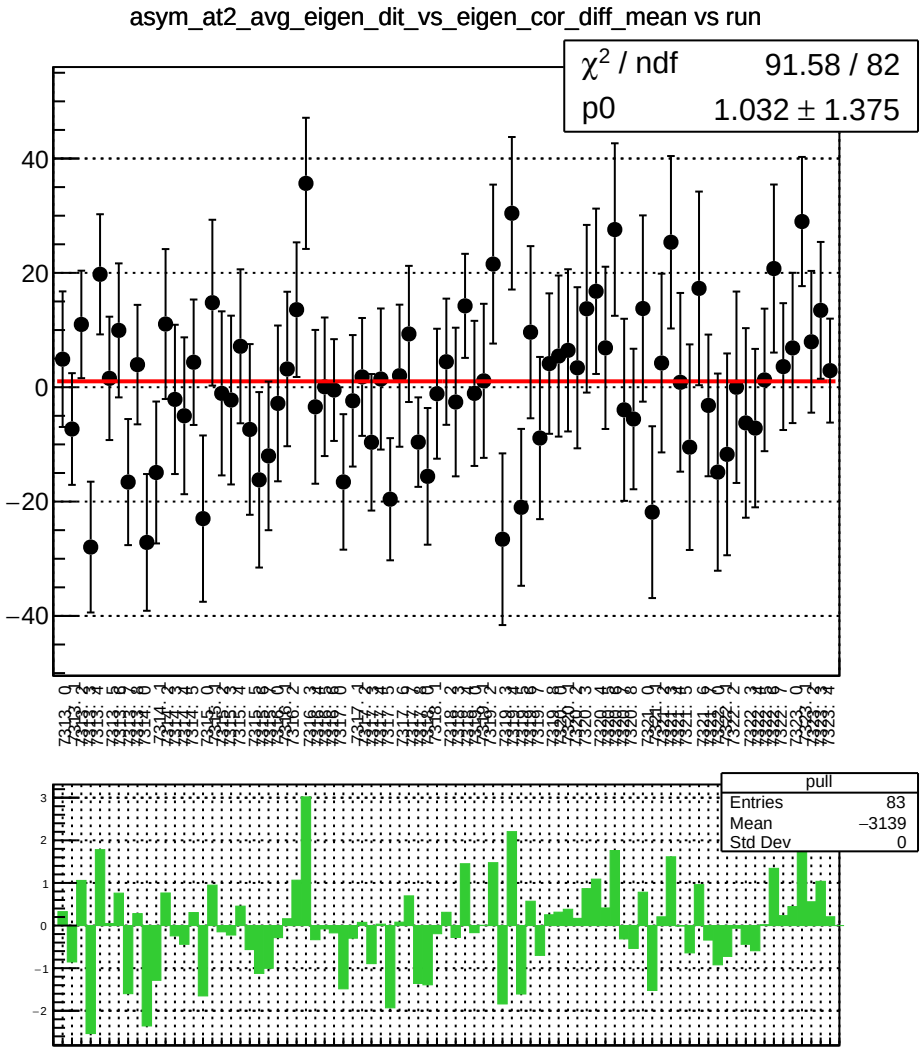

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.04 / 82
p0 3.884e−05 ± 3.481e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 601.1
Std Dev 0
3
2
1
0
−1
−2

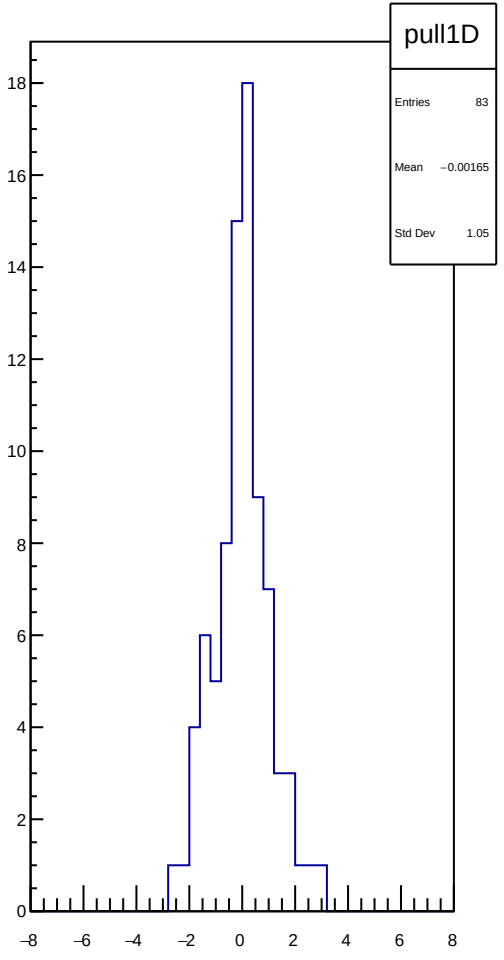

pull1D
Entries 83
Mean 0.00696
Std Dev 0.9571
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

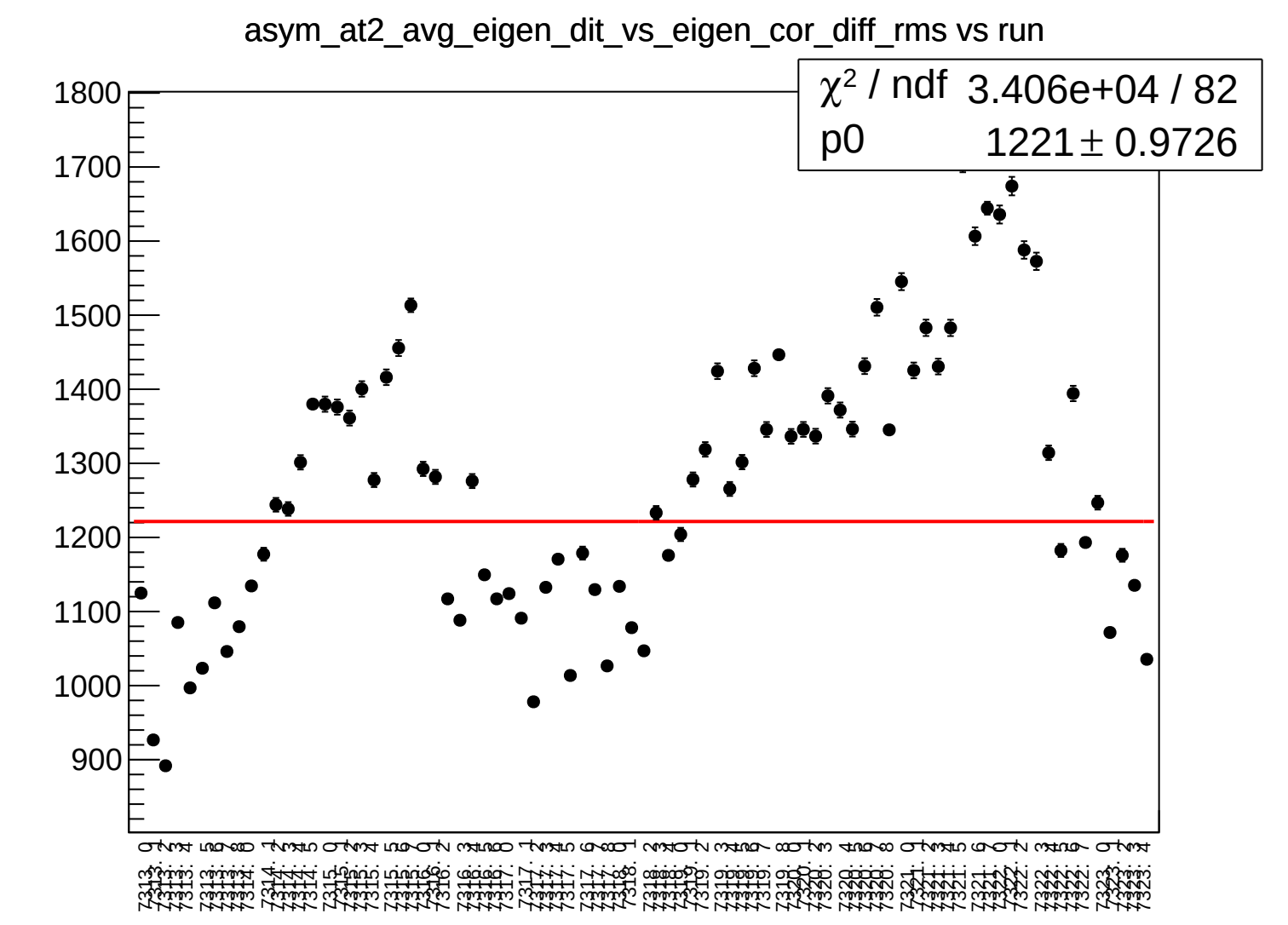

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.301e+04 / 82
p0 0.03112 ± 2.461e−05
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024

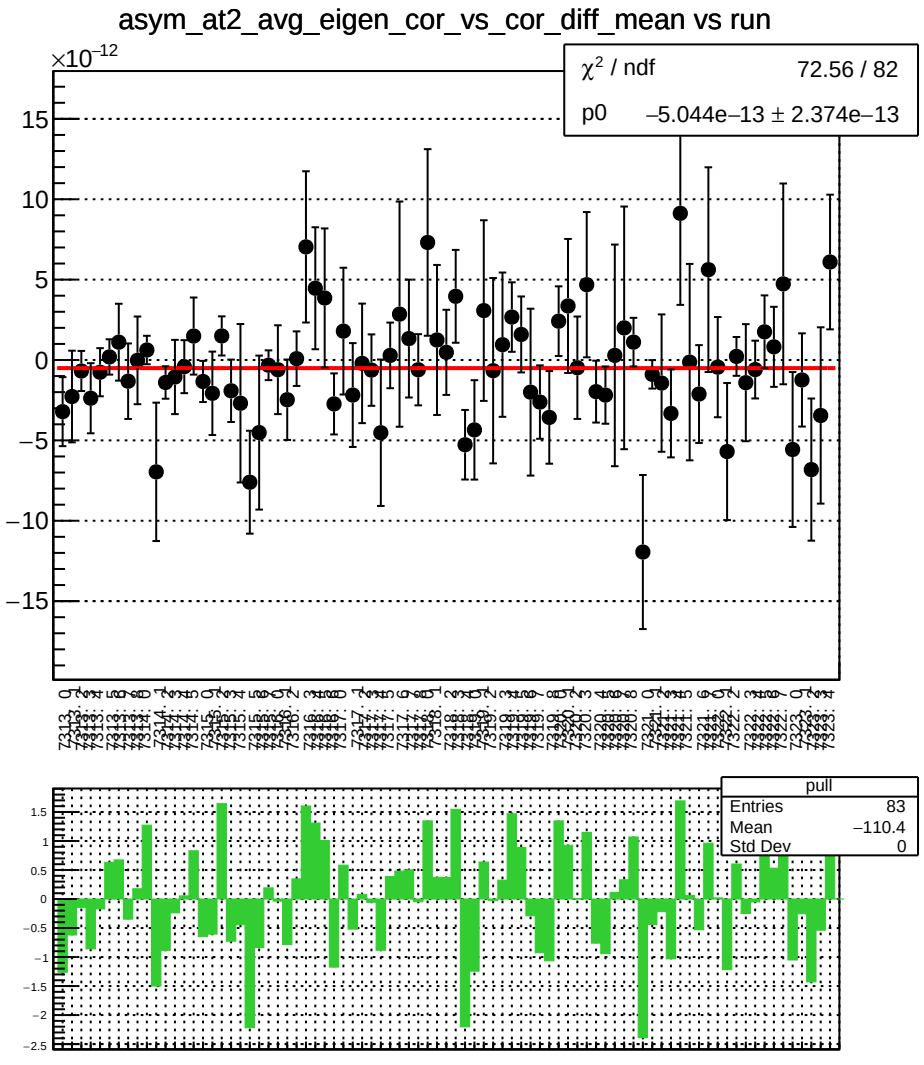

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 82
p0 1.032 ± 1.375
pull
Entries 83
Mean −3139
Std Dev 0
pull1D
Entries 83
Mean −0.00165
Std Dev 1.05

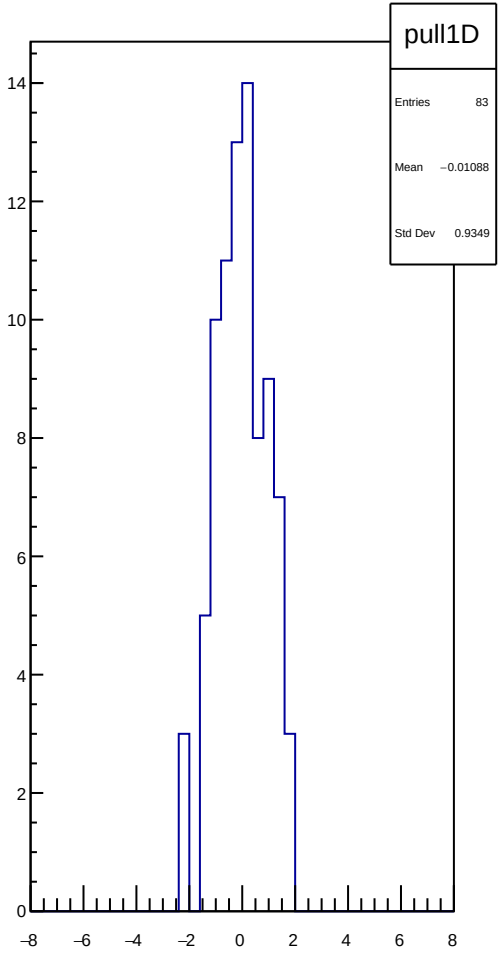

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.406e+04 / 82
p0 1221 ± 0.9726
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

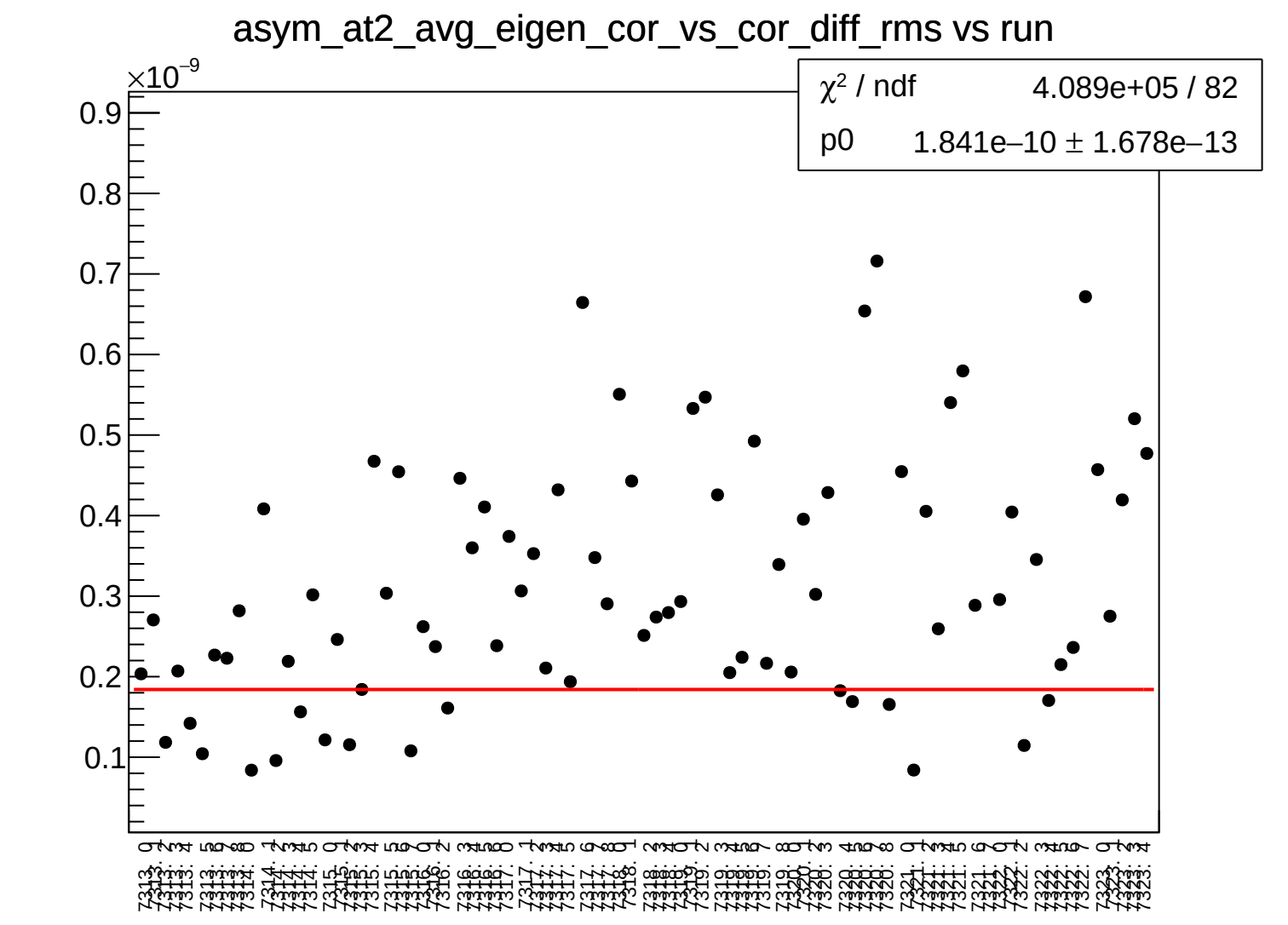

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 91.58 / 82
p0 1.032 ± 1.375
pull
Entries 83
Mean −3139
Std Dev 0

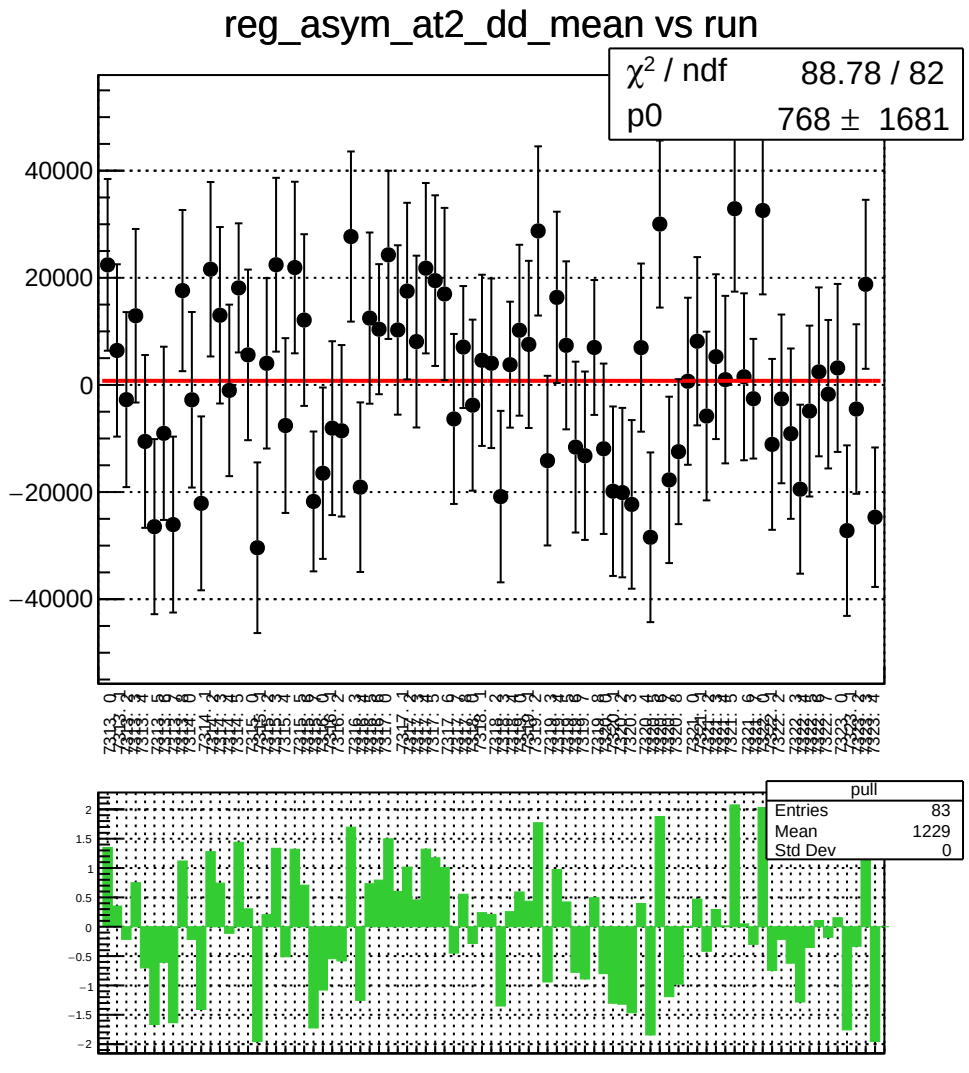

pull1D
Entries 83
Mean −0.00165
Std Dev 1.05

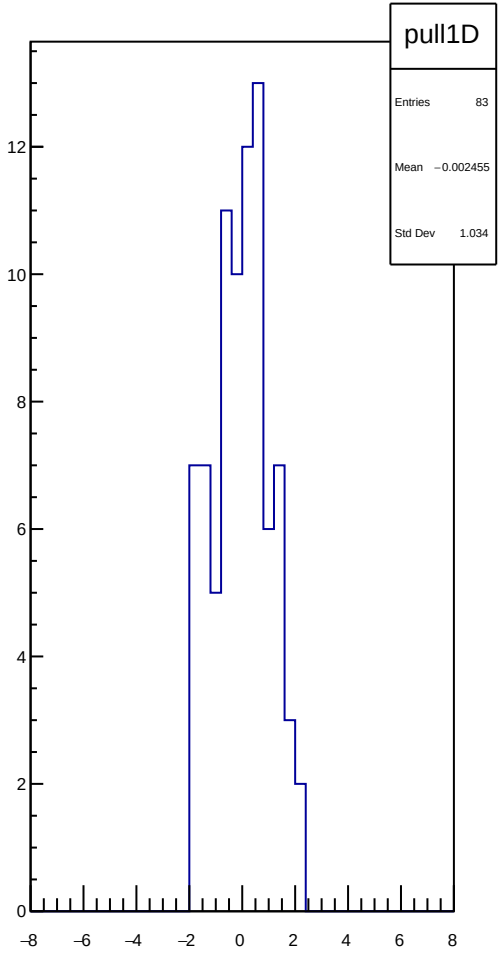

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.406e+04 / 82
p0 1221 ± 0.9726
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

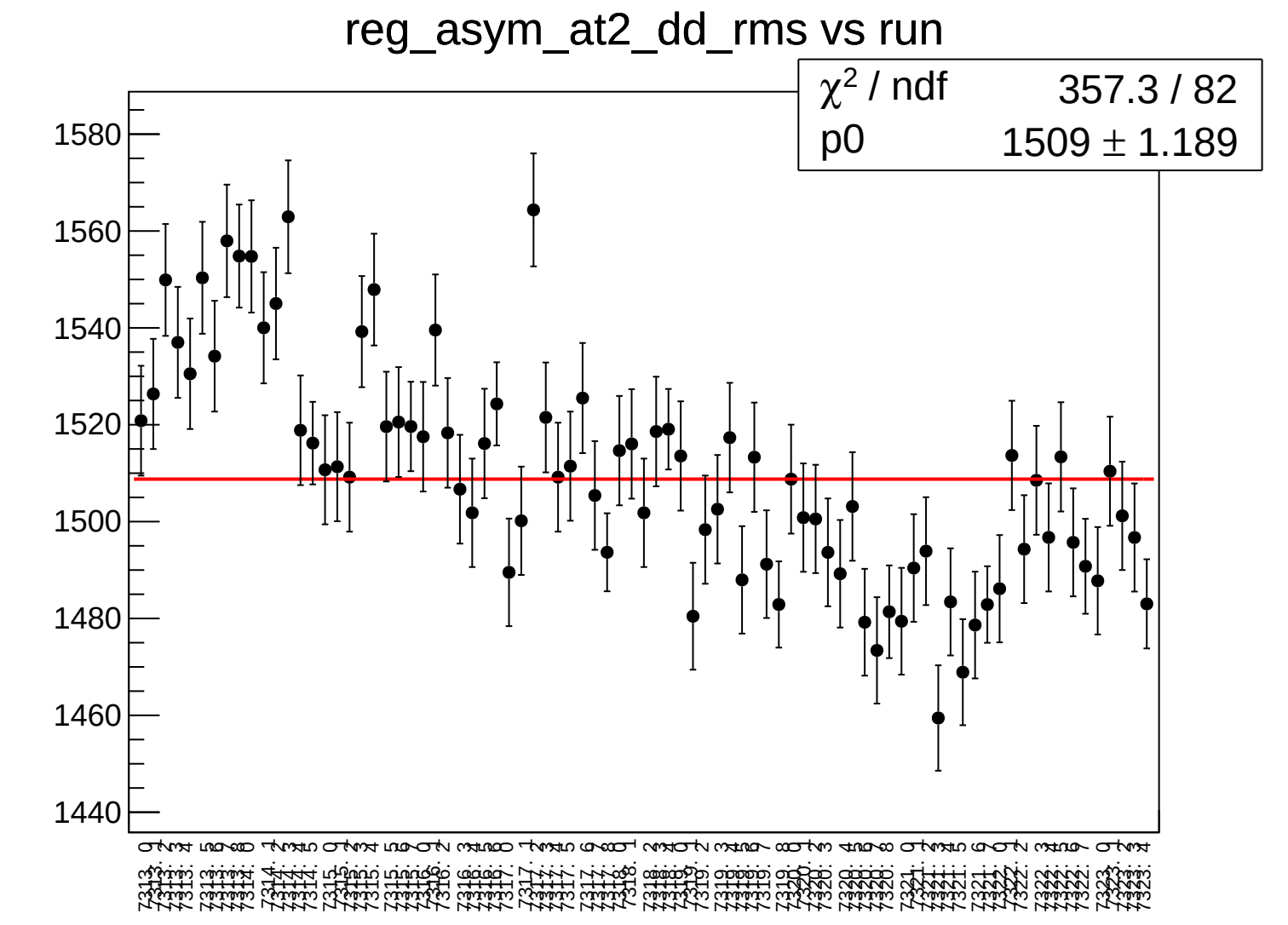

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.56 / 82
p0 −5.044e−13 ± 2.374e−13
pull
Entries 83
Mean −110.4
Std Dev 0

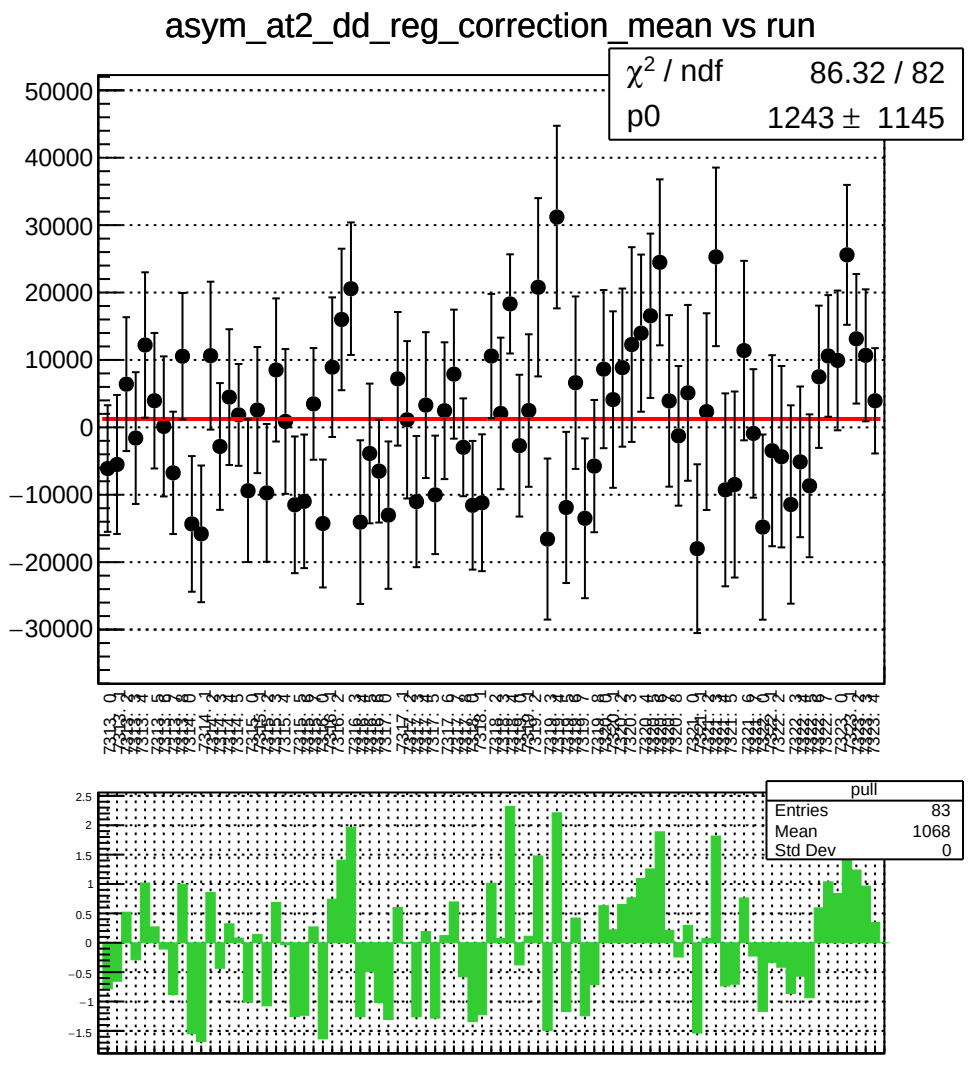

pull1D
Entries 83
Mean −0.01088
Std Dev 0.9349

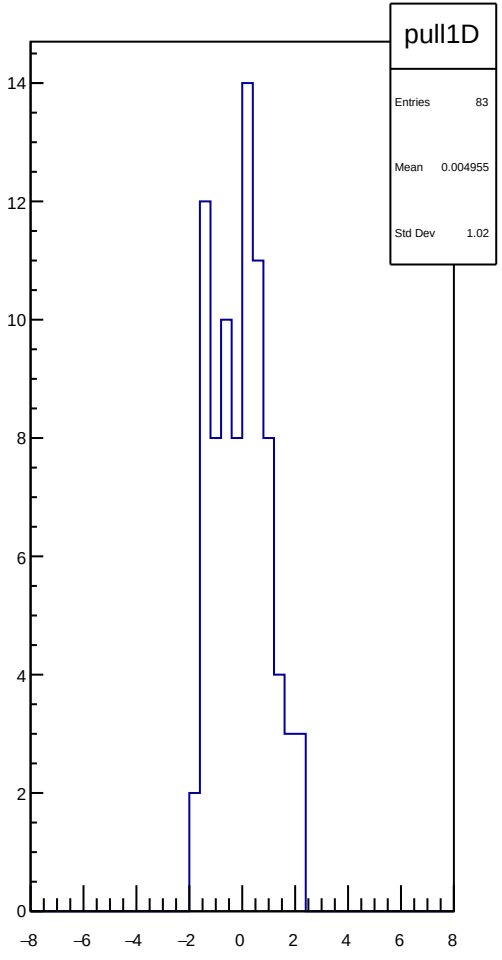

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.089e+05 / 82
p0 1.841e−10 ± 1.678e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

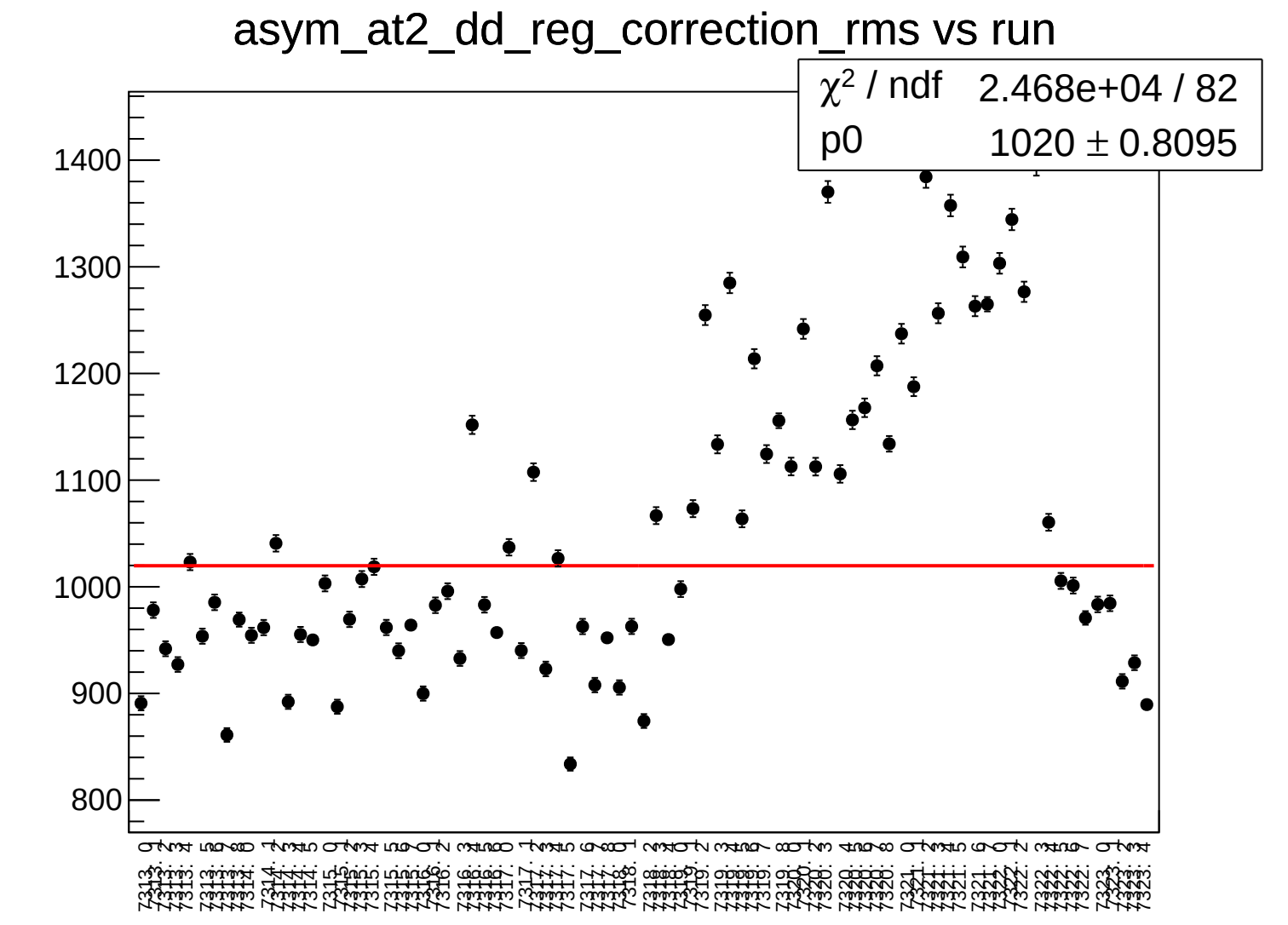

reg_asym_at2_dd_mean vs run
χ² / ndf 88.78 / 82
p0 768 ± 1681
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1229
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

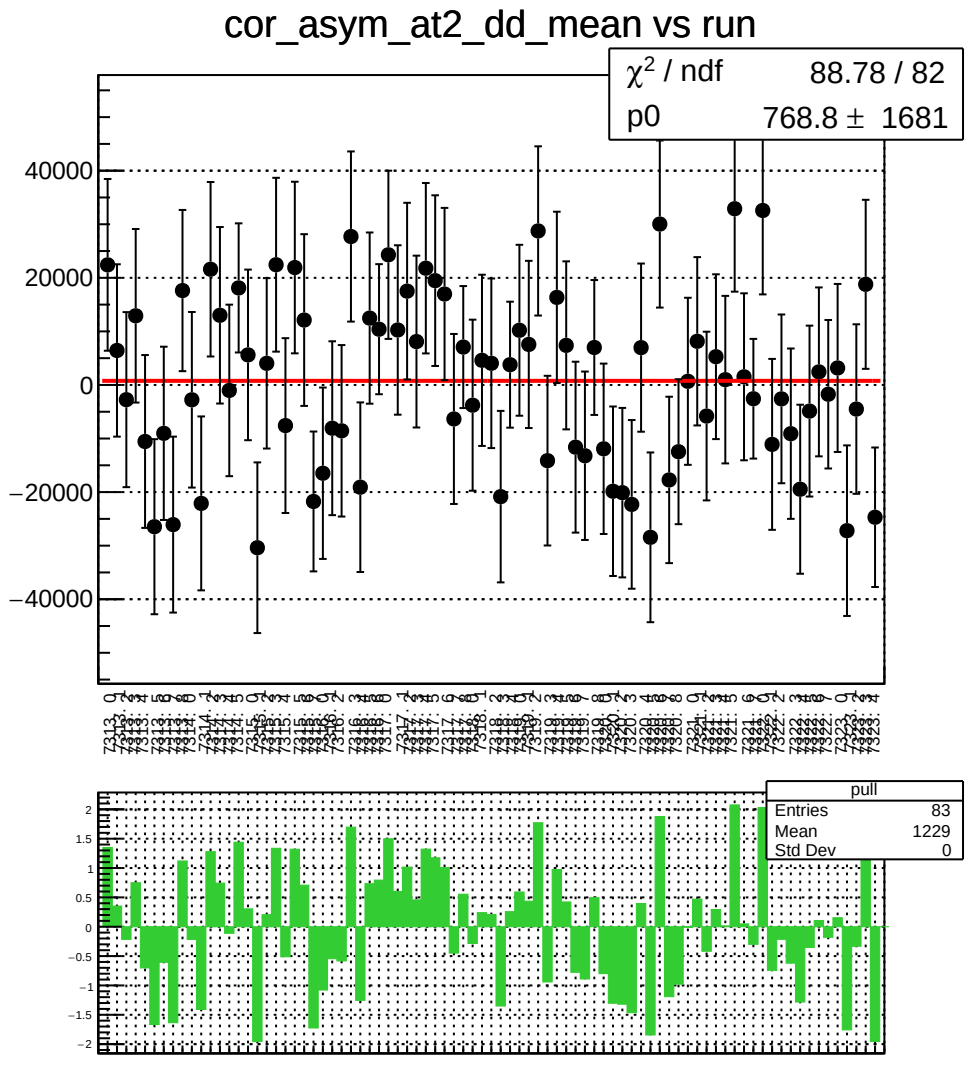

pull1D
Entries 83
Mean −0.002455
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

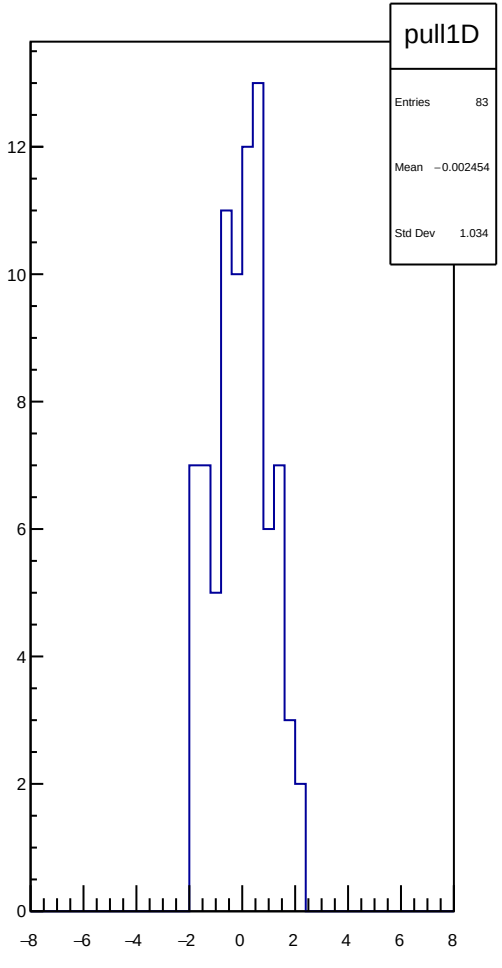

reg_asym_at2_dd_rms vs run
χ² / ndf 357.3 / 82
p0 1509 ± 1.189
1580
1560
1540
1520
1500
1480
1460
1440

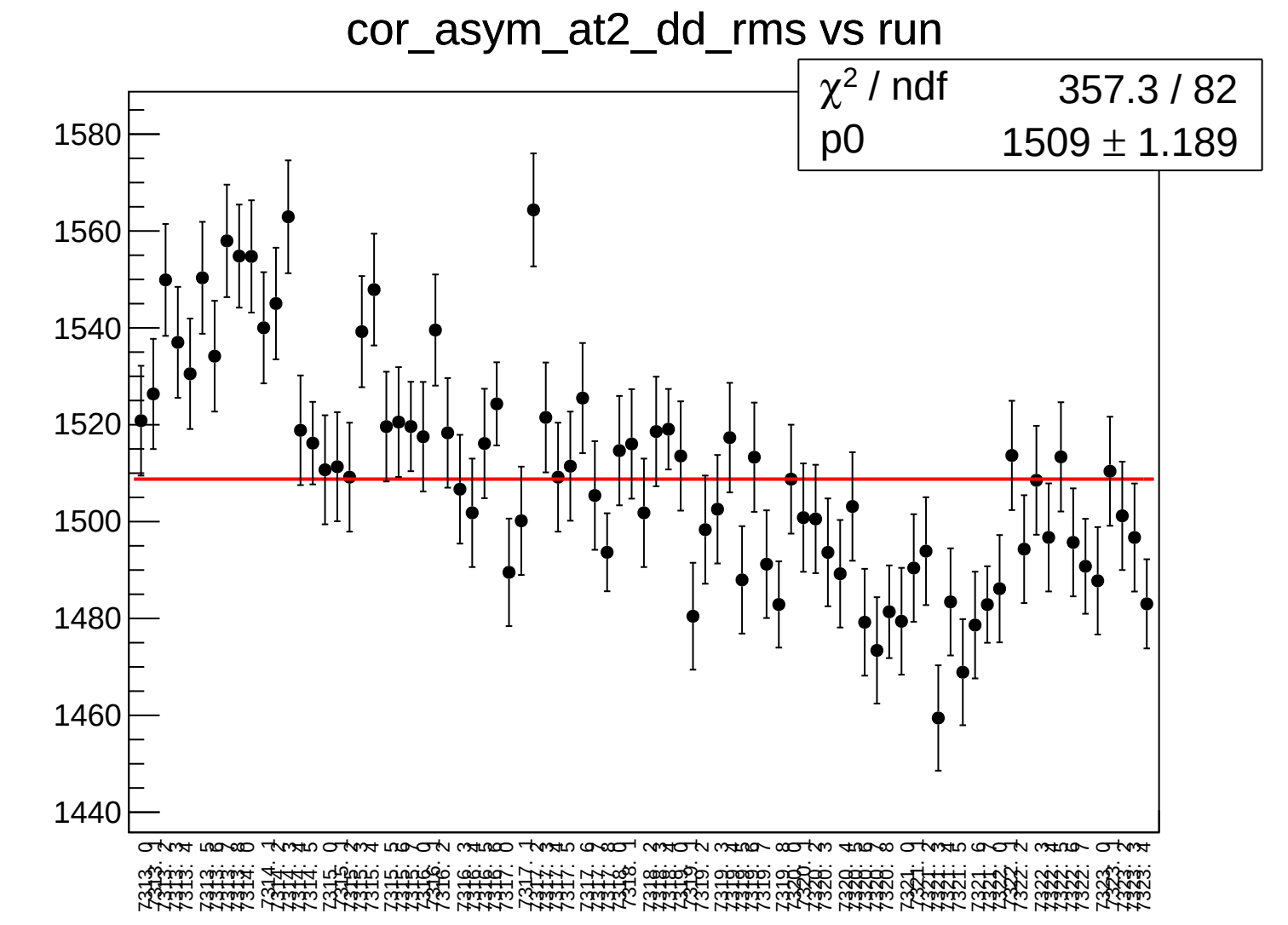

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 86.32 / 82
p0 1243 ± 1145
pull
Entries 83
Mean 1068
Std Dev 0

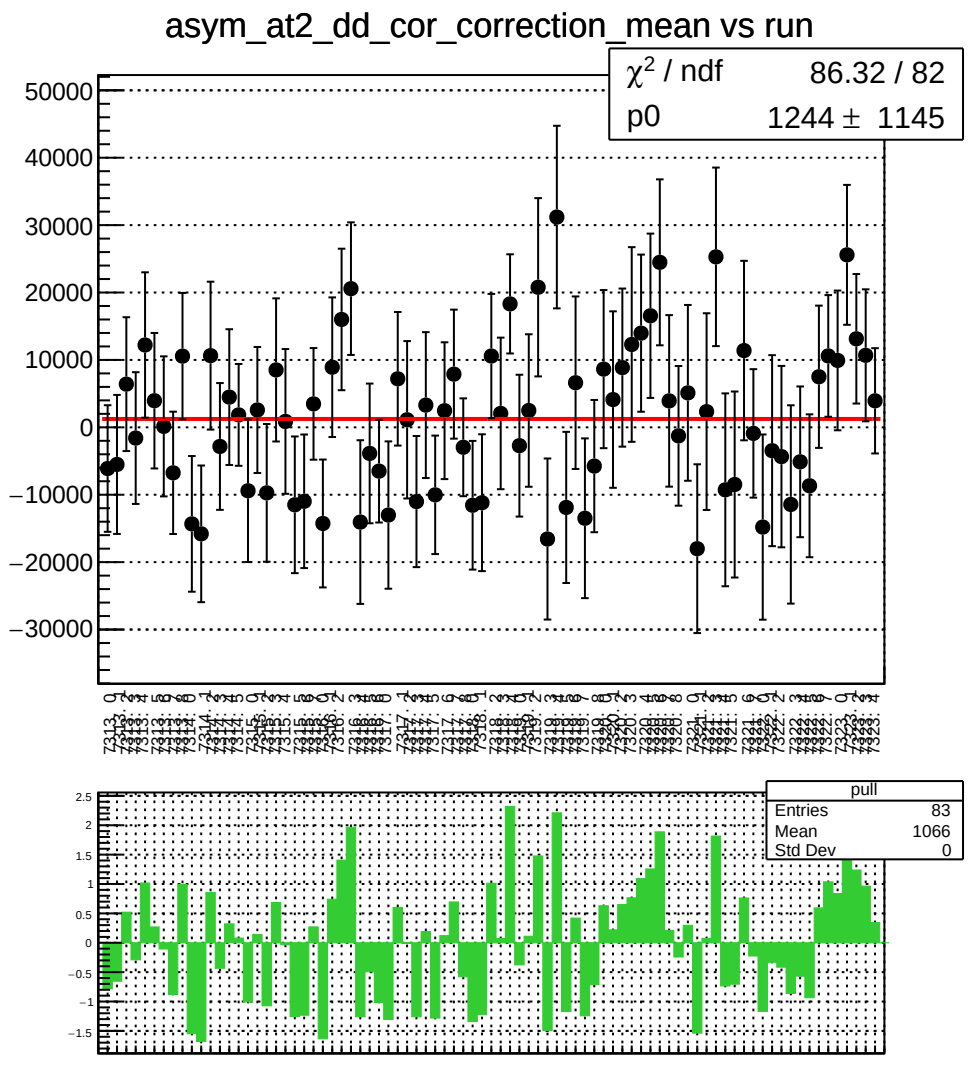

pull1D
Entries 83
Mean 0.004955
Std Dev 1.02

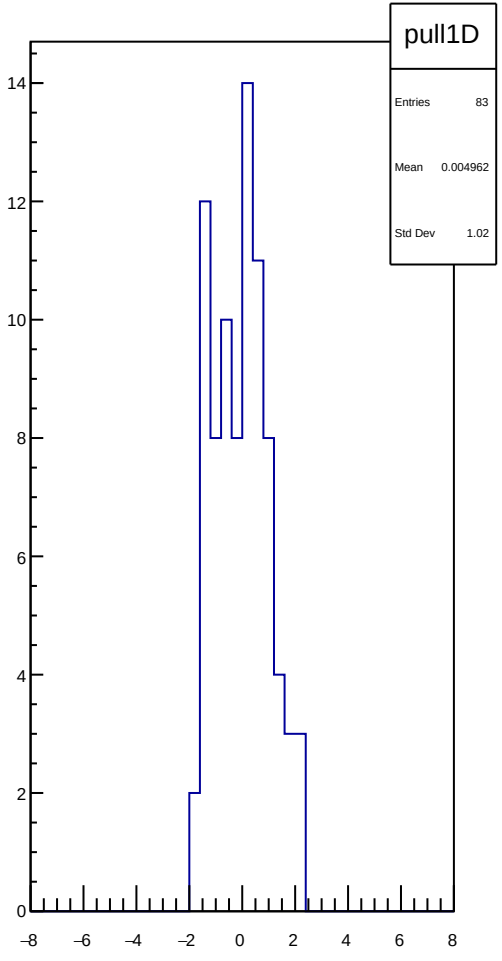

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.468e+04 / 82
p0 1020 ± 0.8095
1400
1300
1200
1100
1000
900
800

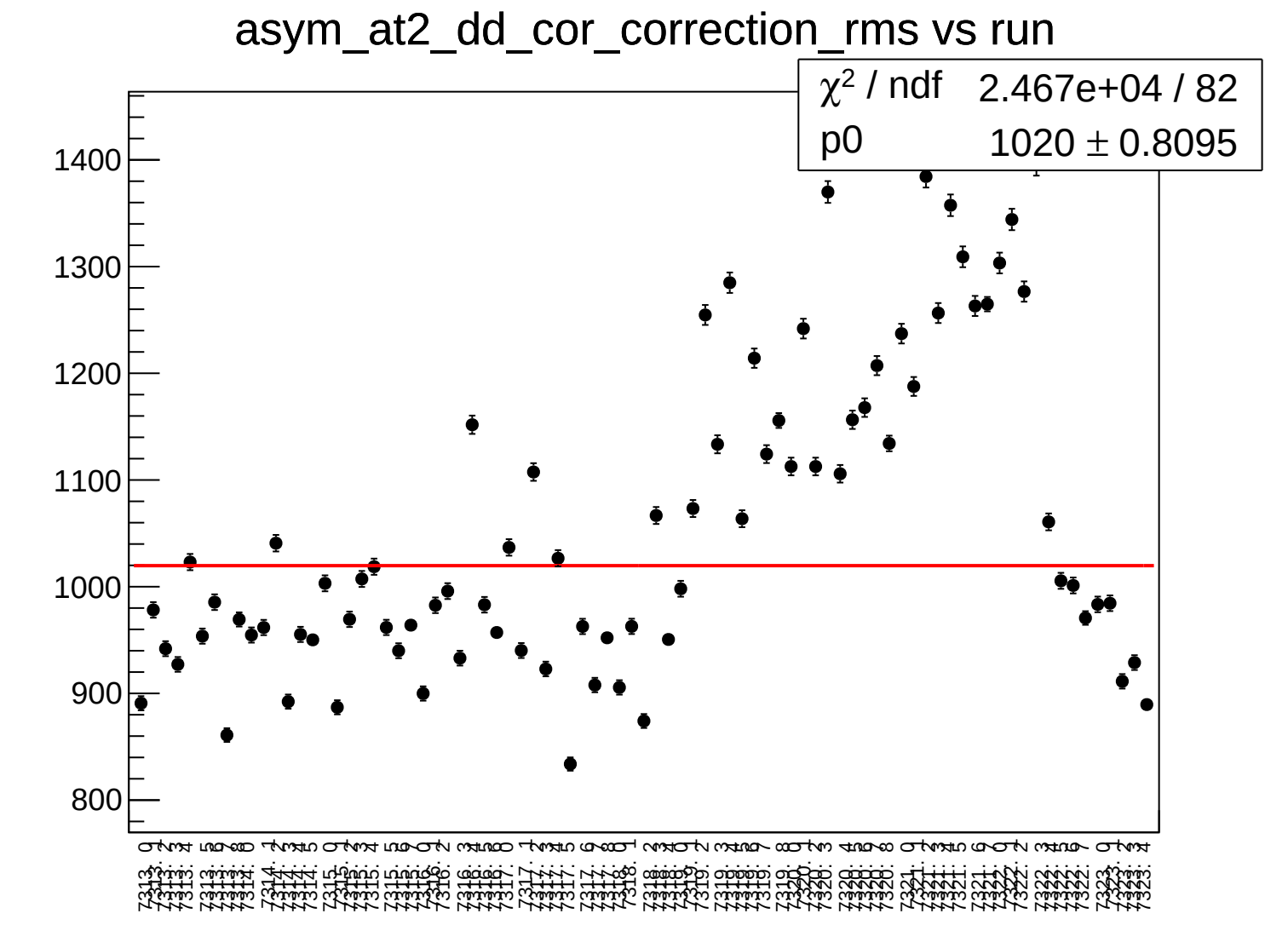

cor_asym_at2_dd_mean vs run
χ² / ndf 88.78 / 82
p0 768.8 ± 1681
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1229
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

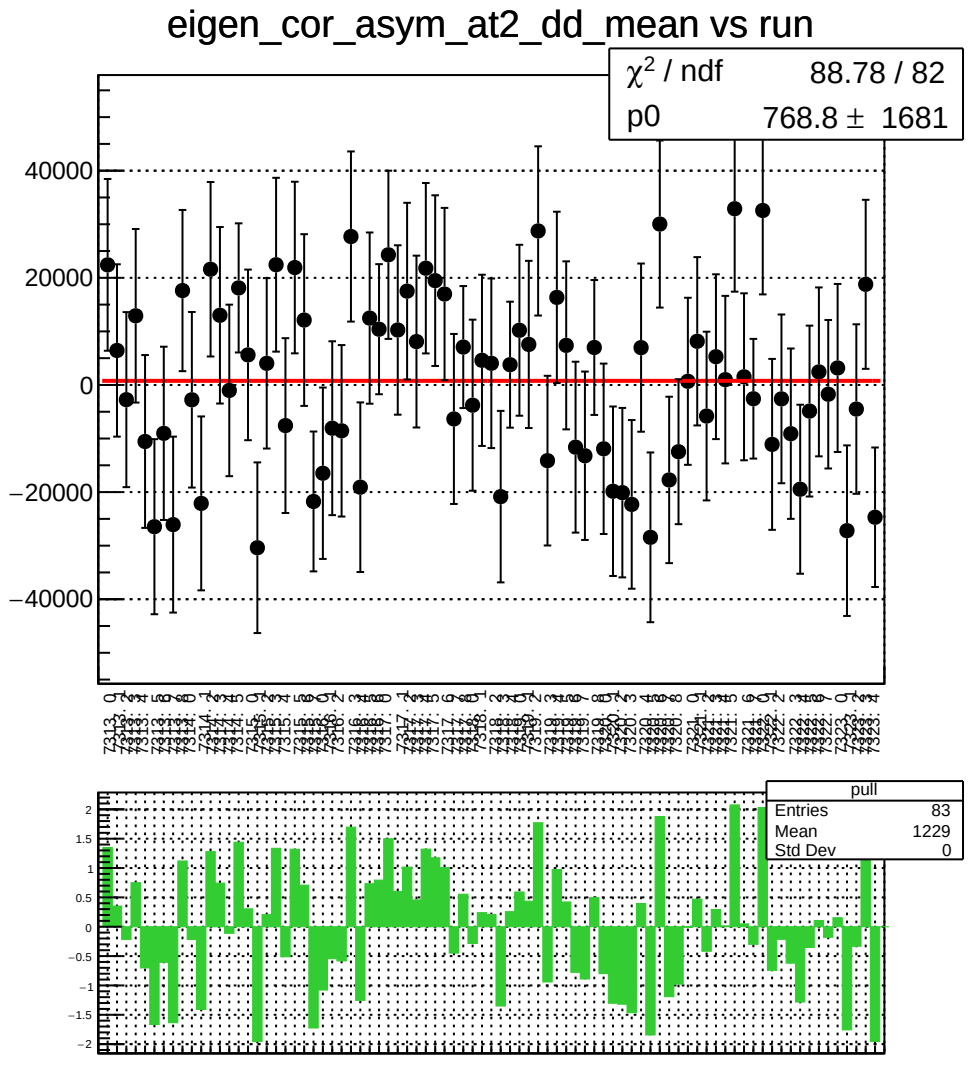

pull1D
Entries 83
Mean −0.002454
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

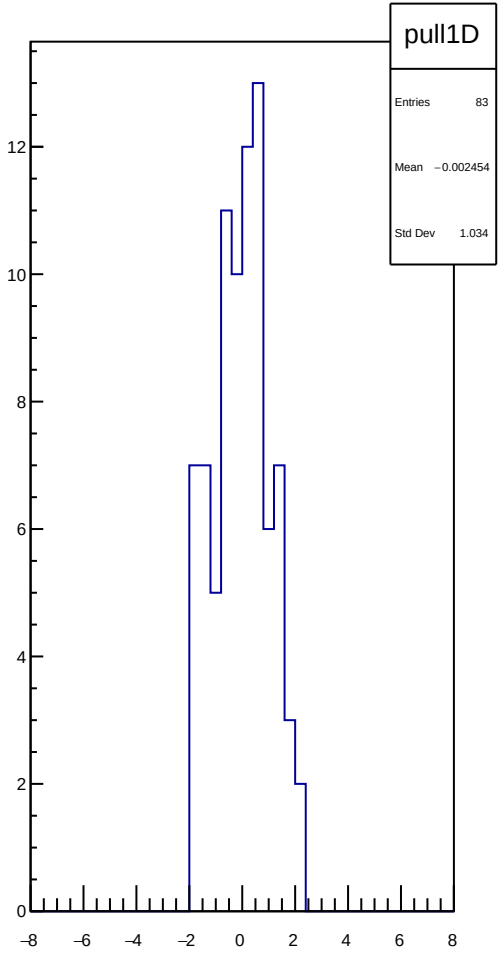

cor_asym_at2_dd_rms vs run
χ² / ndf 357.3 / 82
p0 1509 ± 1.189
1580
1560
1540
1520
1500
1480
1460
1440

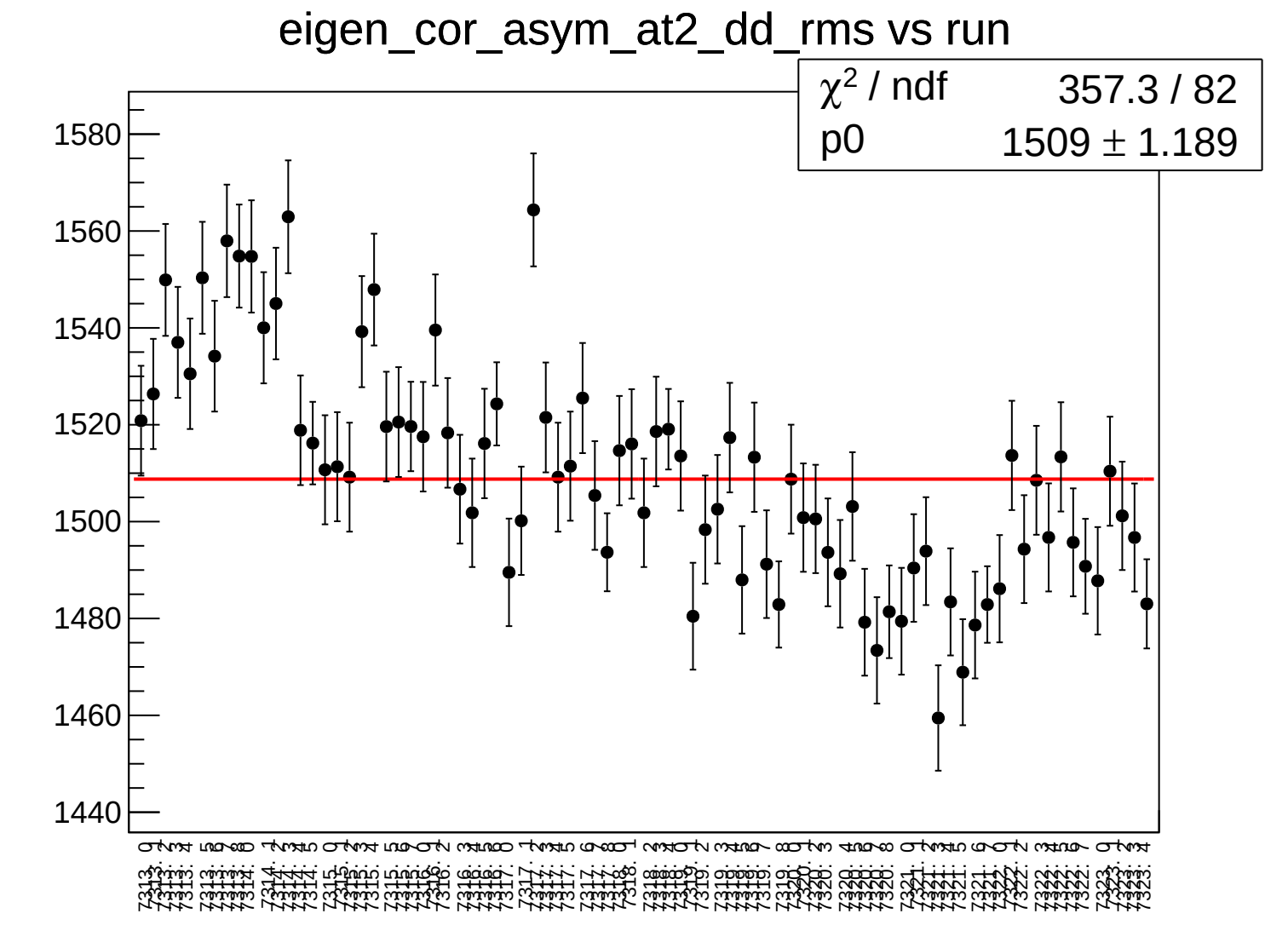

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 86.32 / 82
p0 1244 ± 1145
pull
Entries 83
Mean 1066
Std Dev 0

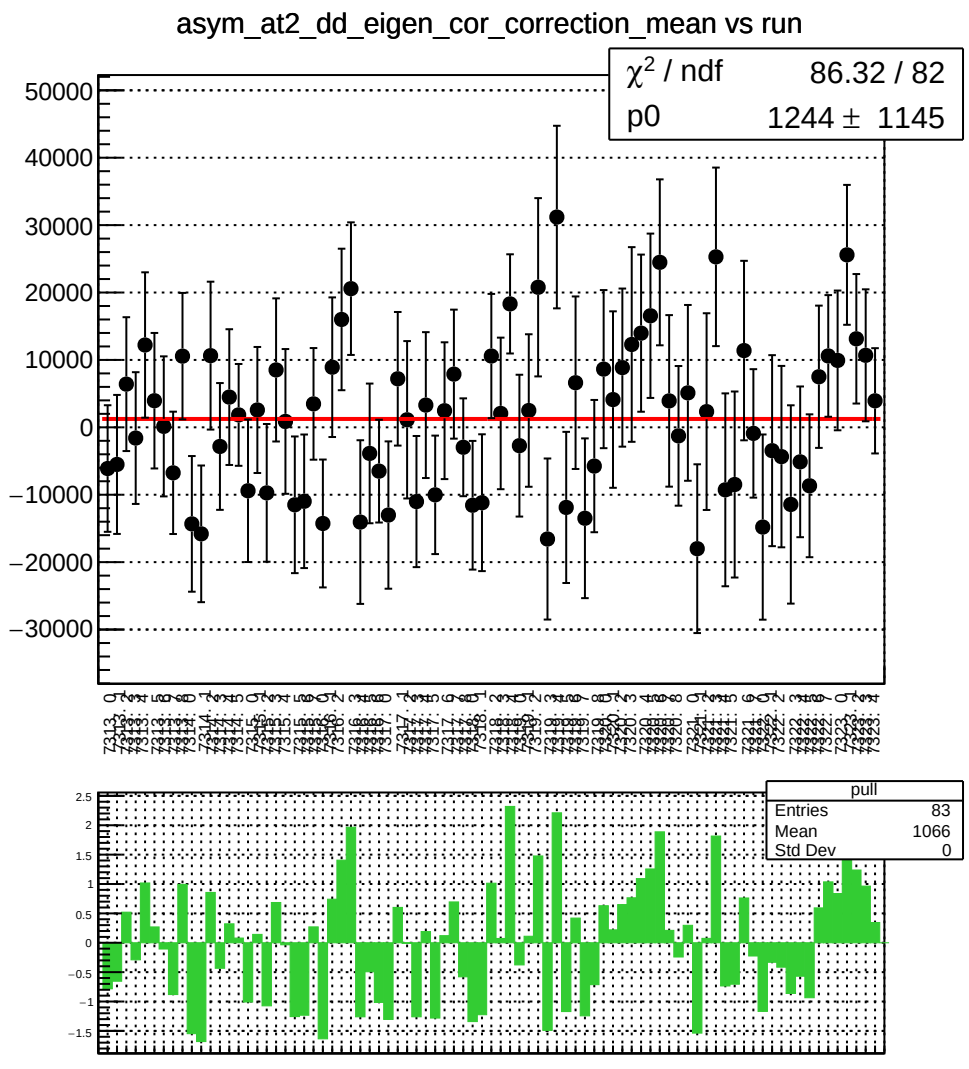

pull1D
Entries 83
Mean 0.004962
Std Dev 1.02

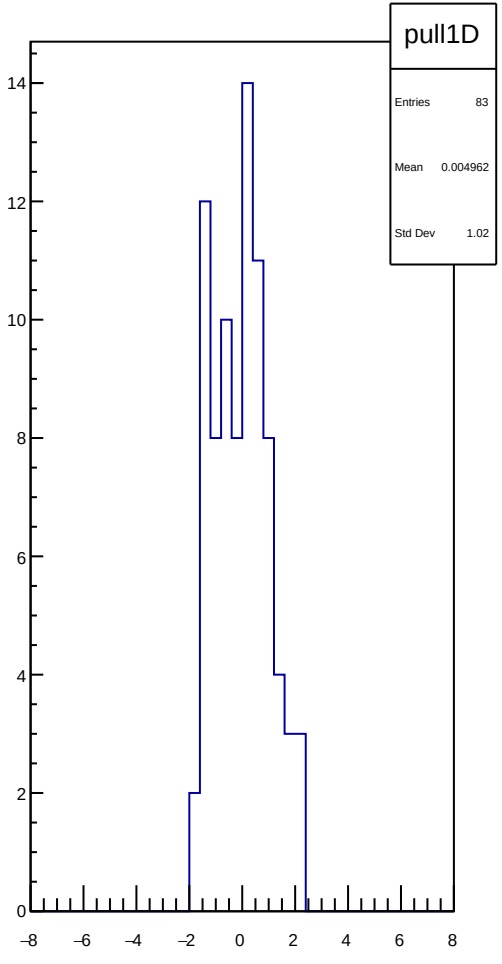

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.467e+04 / 82
p0 1020 ± 0.8095
1400
1300
1200
1100
1000
900
800

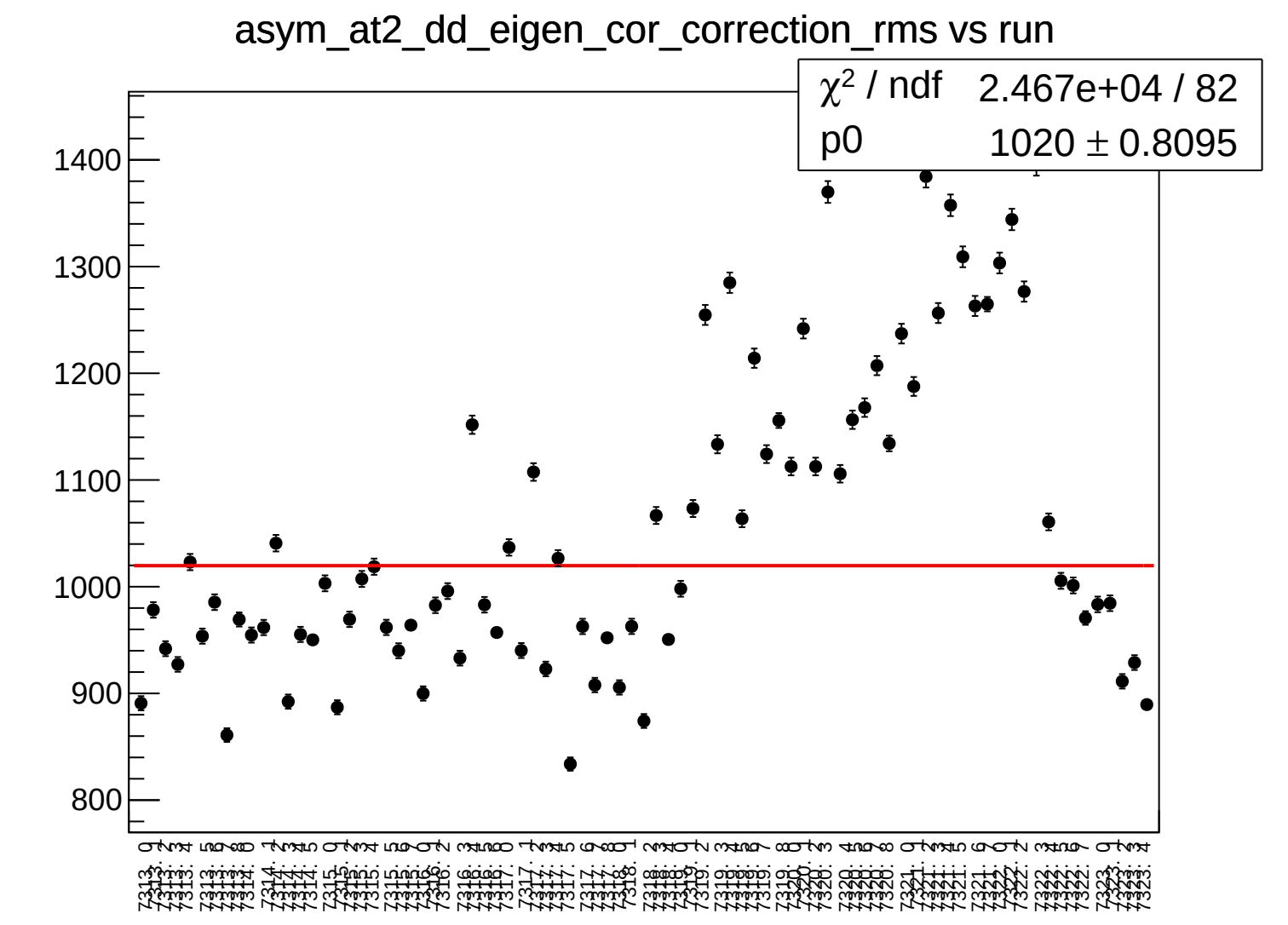

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 88.78 / 82
p0 768.8 ± 1681
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1229
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

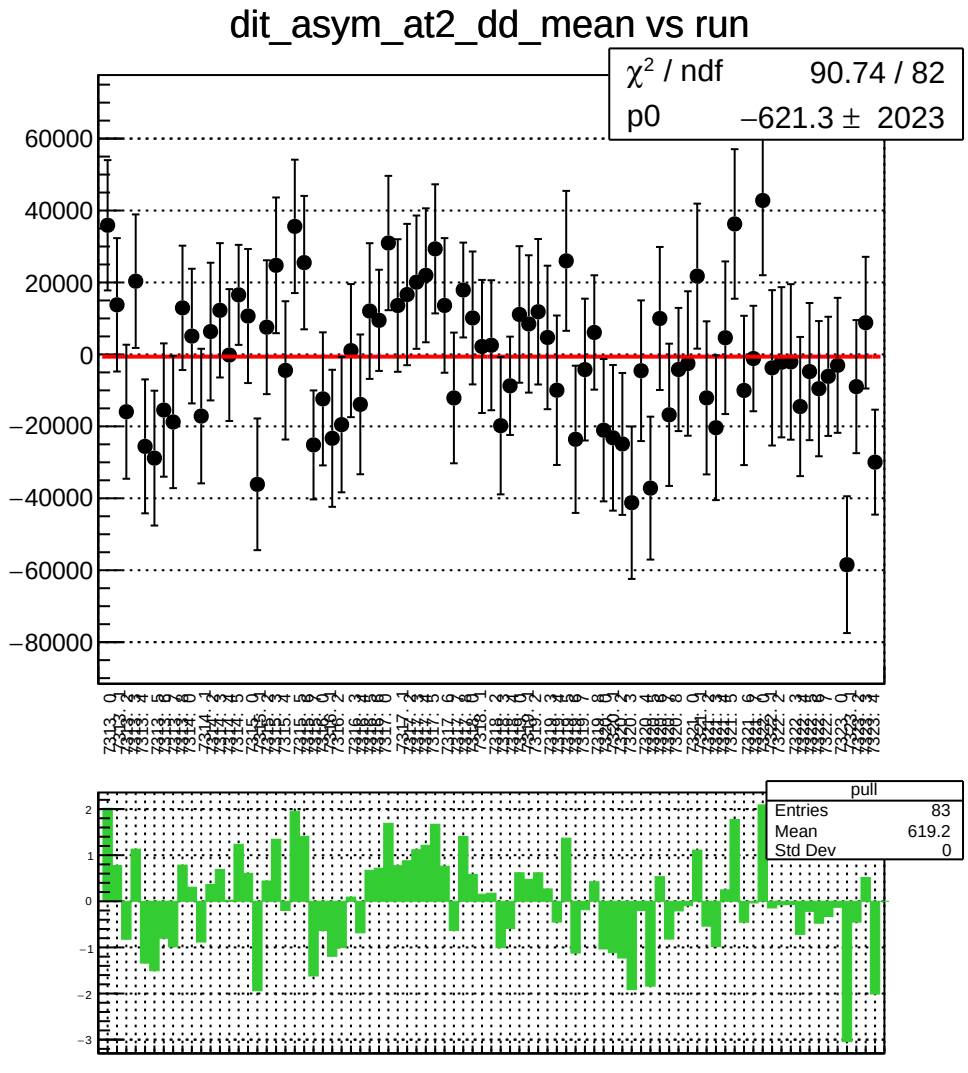

pull1D
Entries 83
Mean −0.002454
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

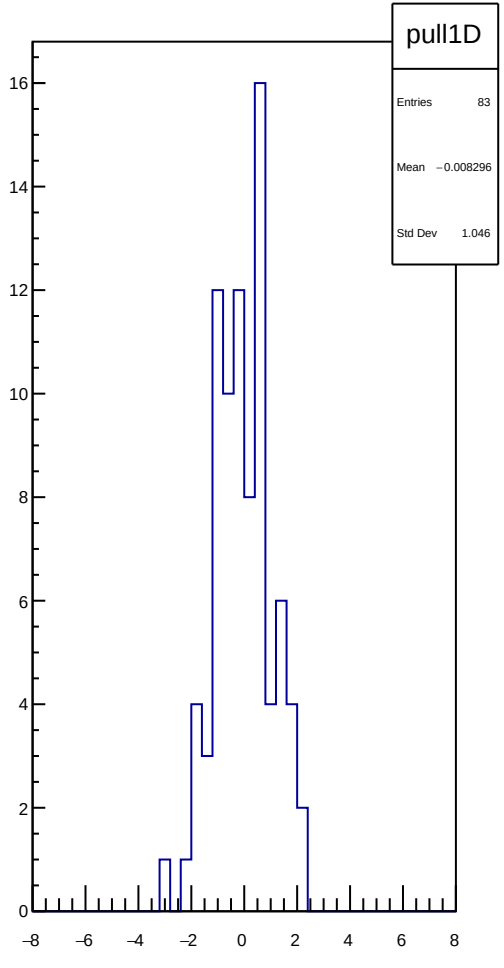

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 357.3 / 82
p0 1509 ± 1.189
1580
1560
1540
1520
1500
1480
1460
1440

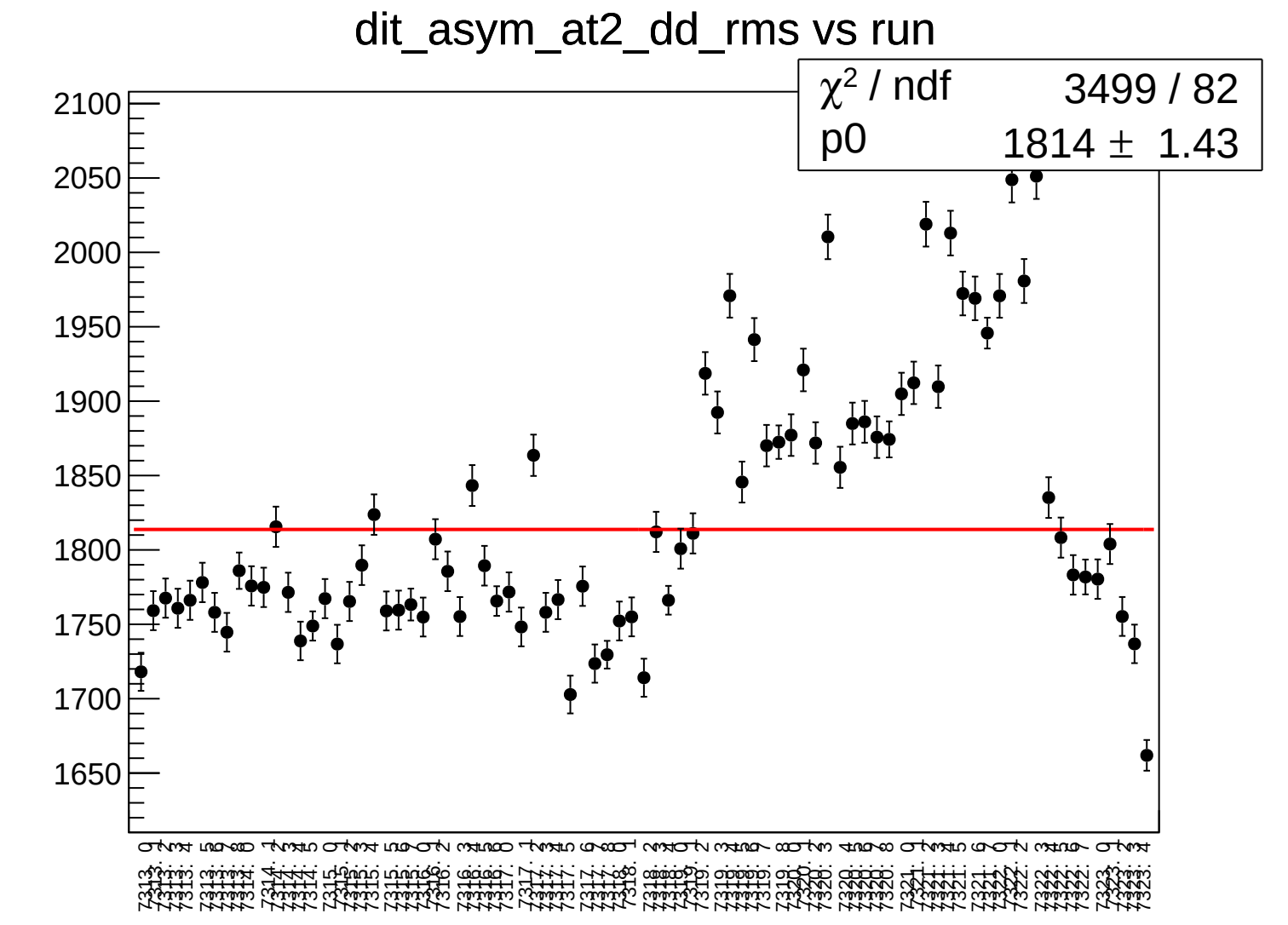

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.32 / 82
p0 1244 ± 1145
pull
Entries 83
Mean 1066
Std Dev 0

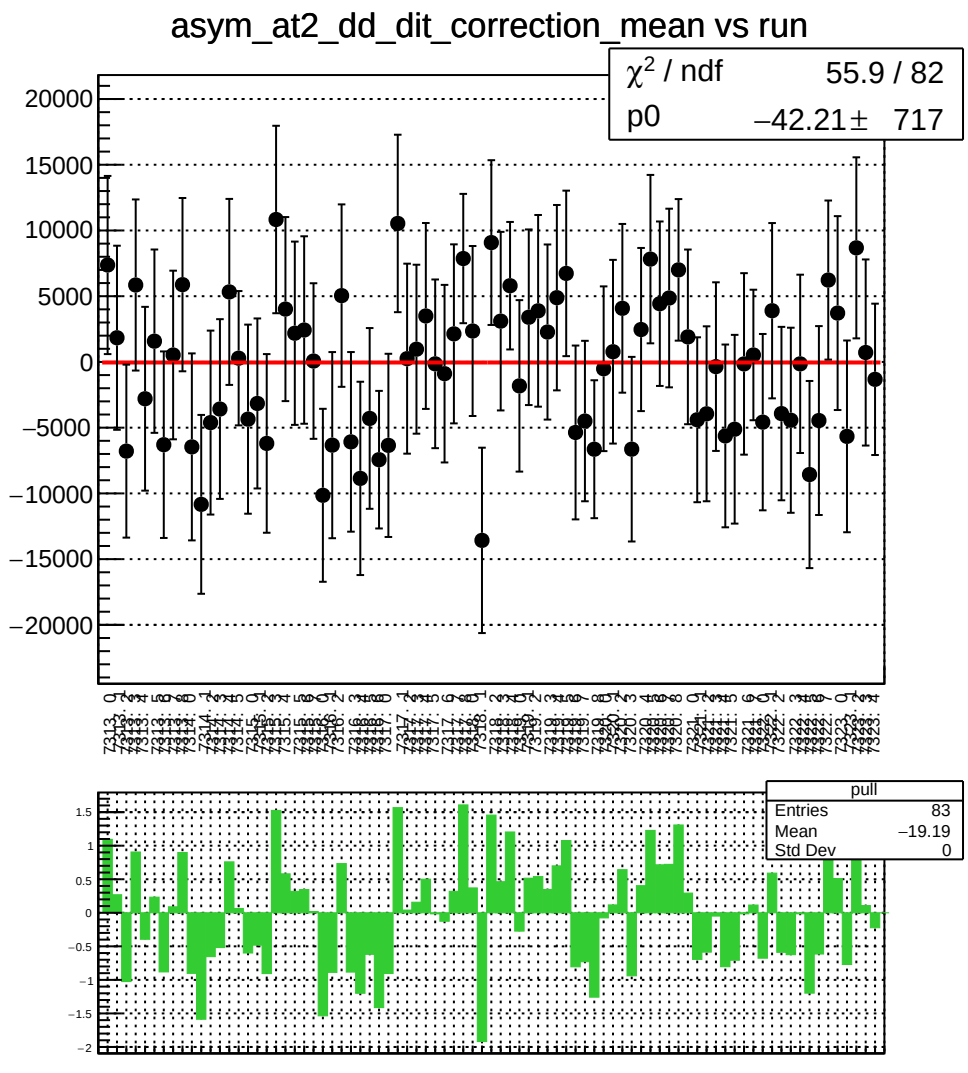

pull1D
Entries 83
Mean 0.004962
Std Dev 1.02

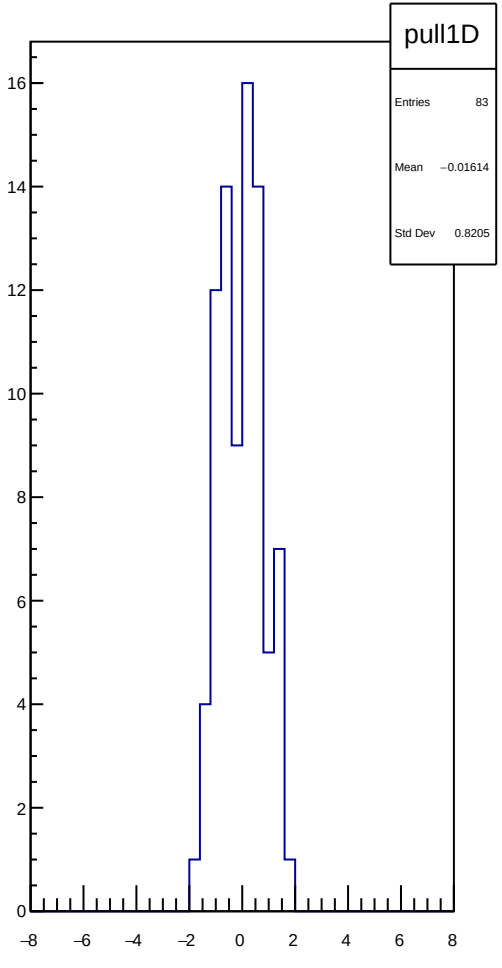

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.467e+04 / 82
p0 1020 ± 0.8095
1400
1300
1200
1100
1000
900
800

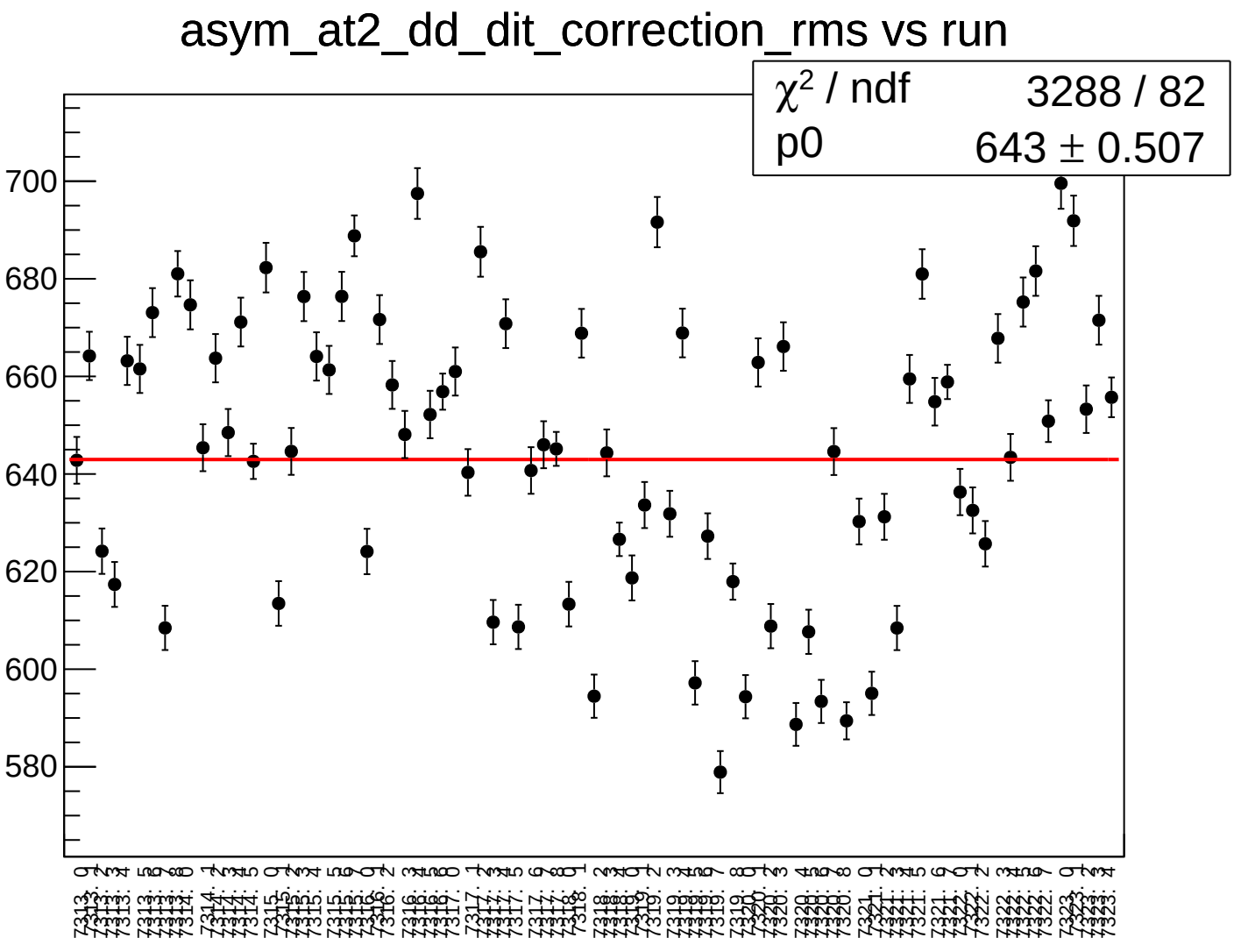

dit_asym_at2_dd_mean vs run
χ² / ndf 90.74 / 82
p0 −621.3 ± 2023
pull
Entries 83
Mean 619.2
Std Dev 0

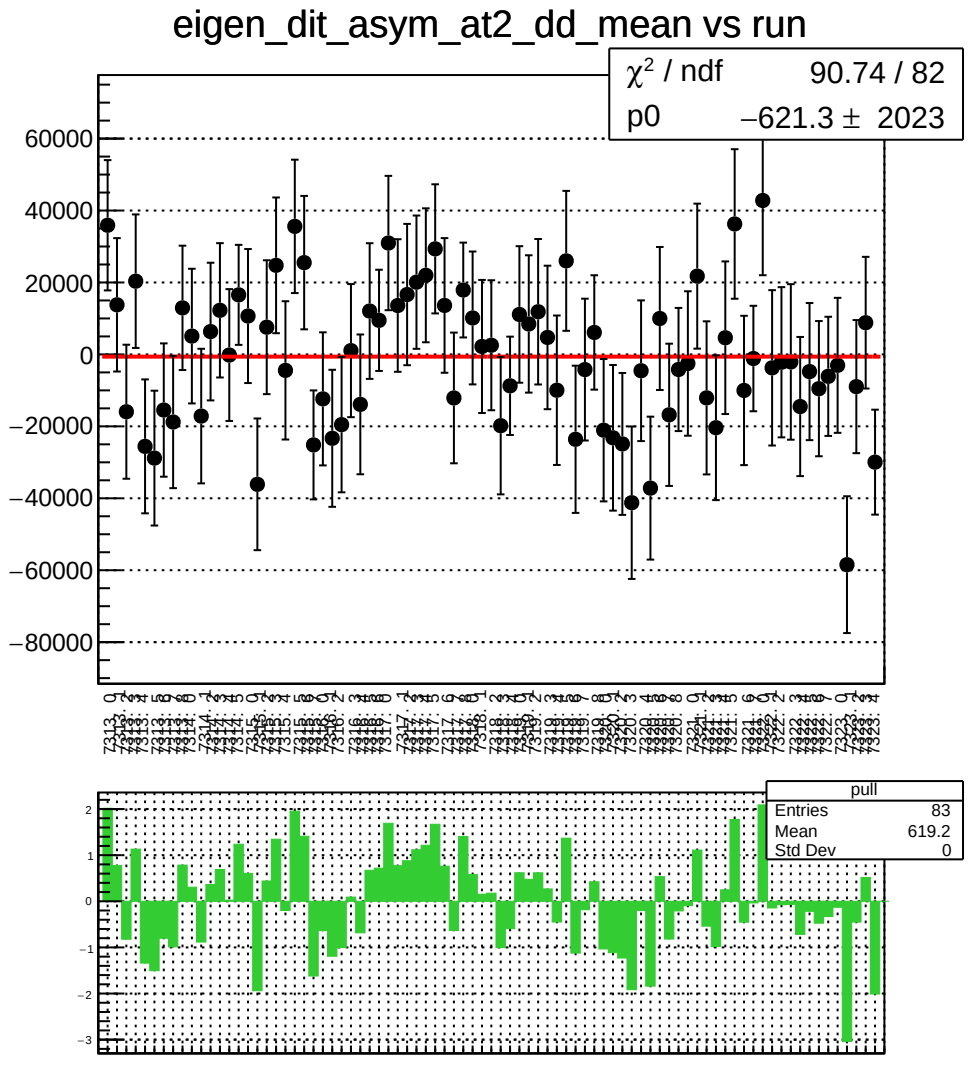

pull1D
Entries 83
Mean −0.008296
Std Dev 1.046

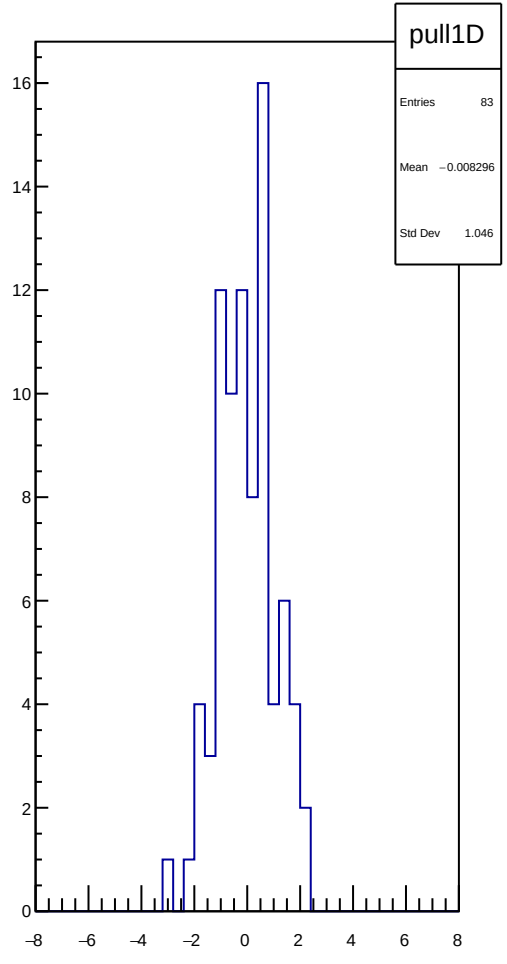

dit_asym_at2_dd_rms vs run
χ² / ndf 3499 / 82
p0 1814 ± 1.43
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

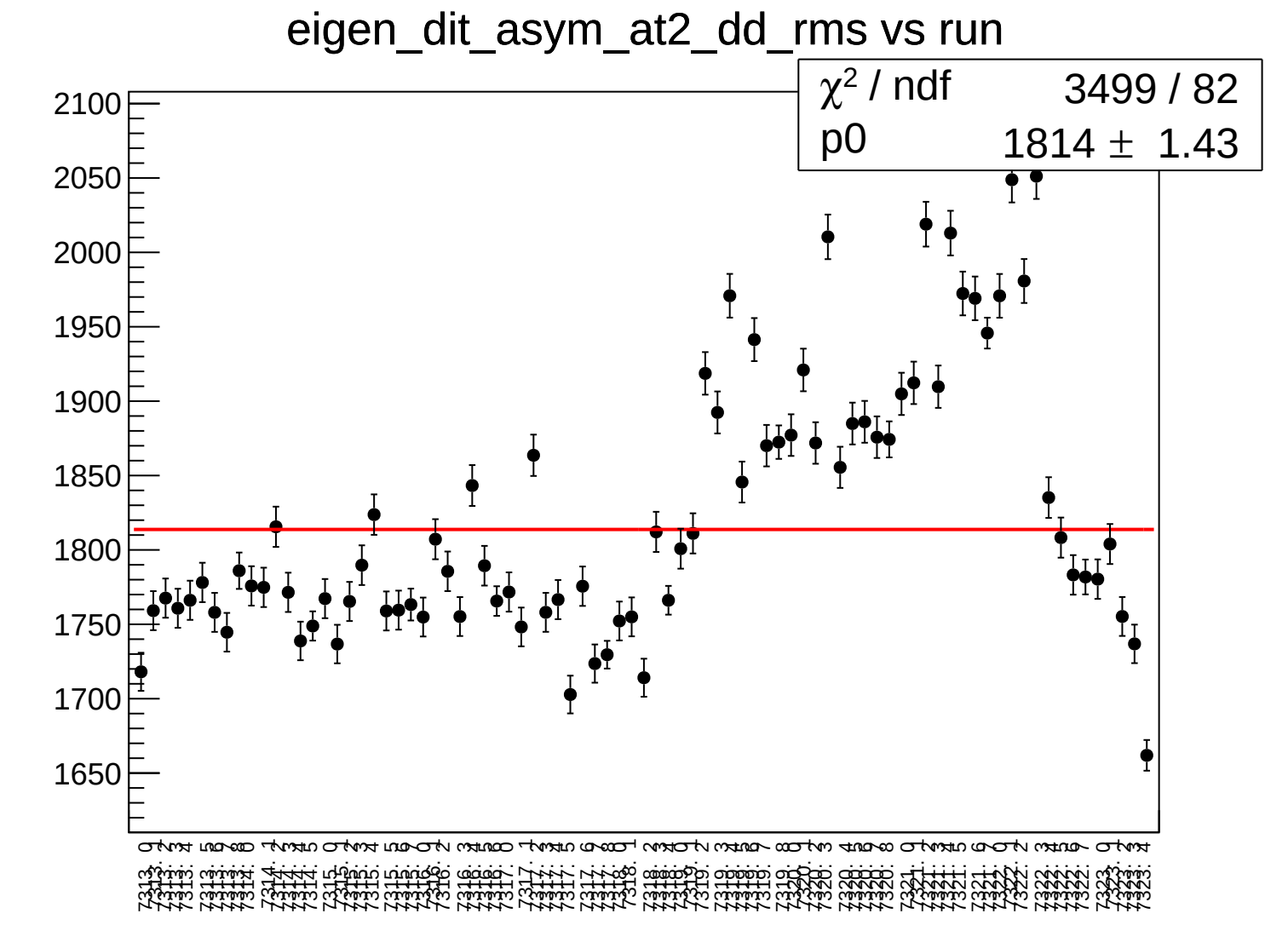

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 55.9 / 82
p0 −42.21 ± 717
pull
Entries 83
Mean −19.19
Std Dev 0

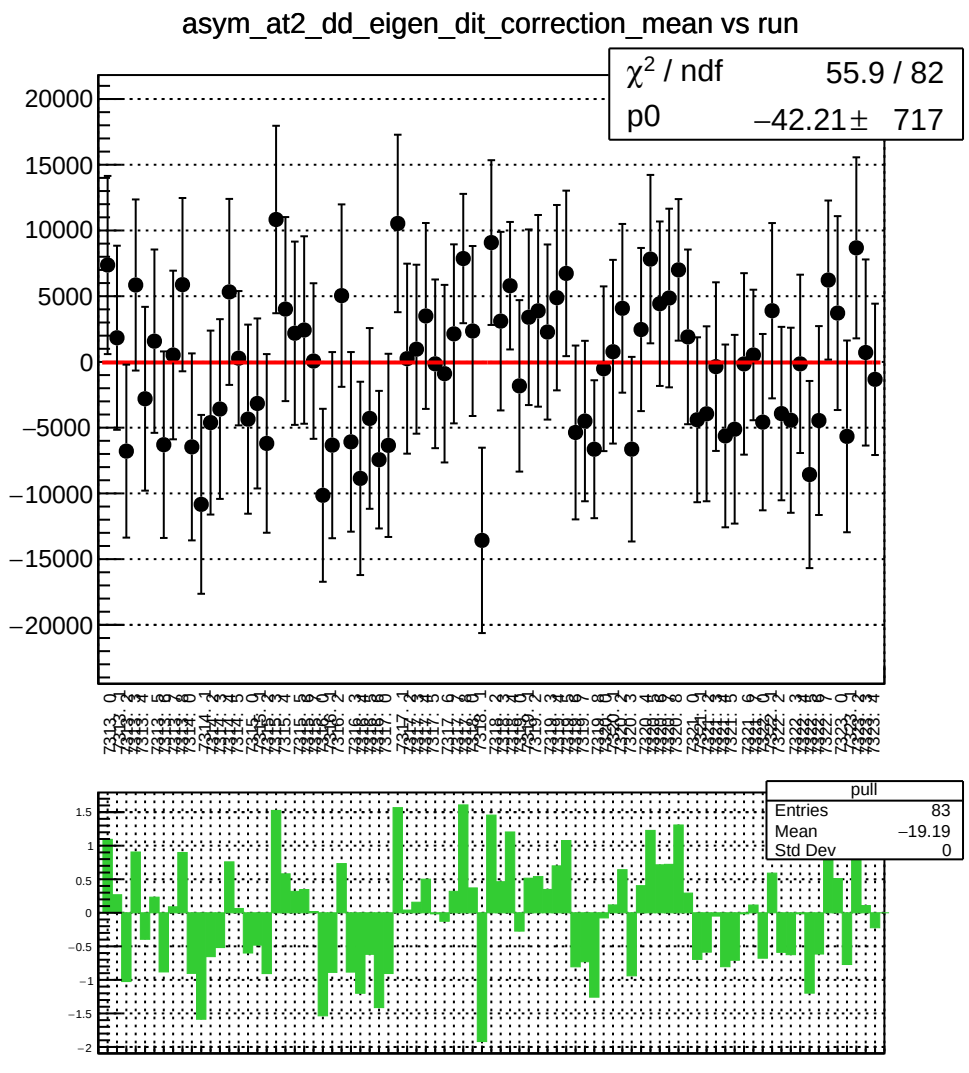

pull1D
Entries 83
Mean −0.01614
Std Dev 0.8205

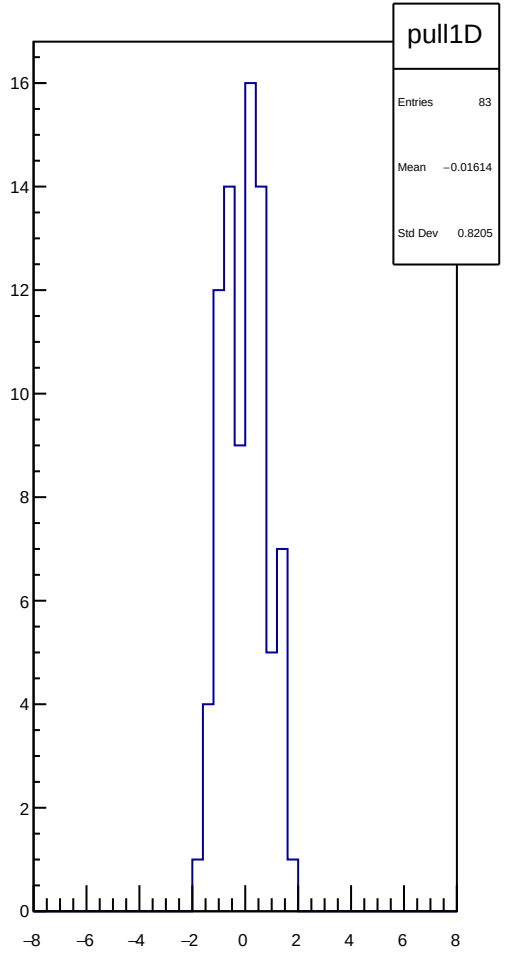

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3288 / 82
p0 643 ± 0.507
700
680
660
640
620
600
580

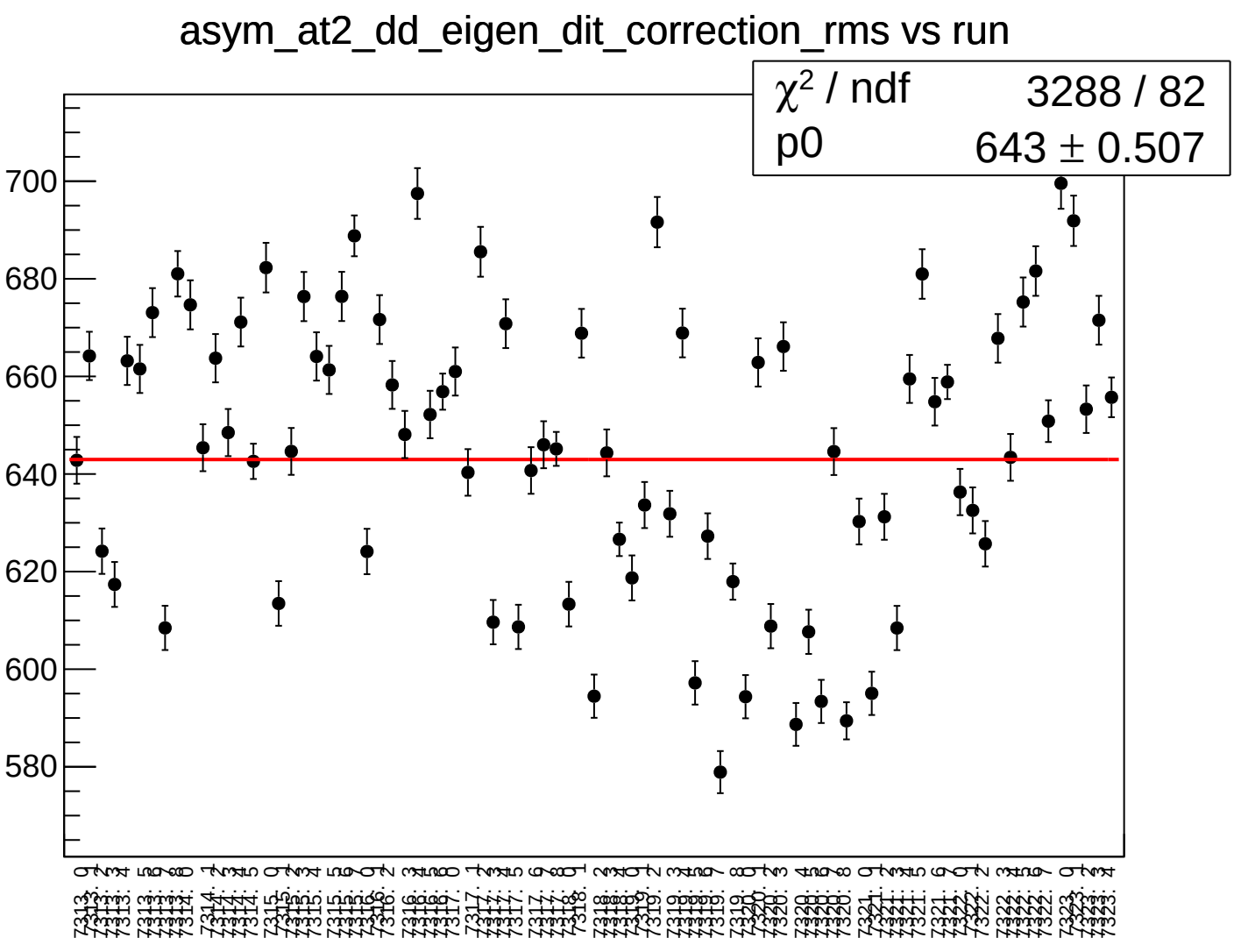

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 90.74 / 82
p0 −621.3 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean 619.2
Std Dev 0
2
1
0
−1
−2
−3

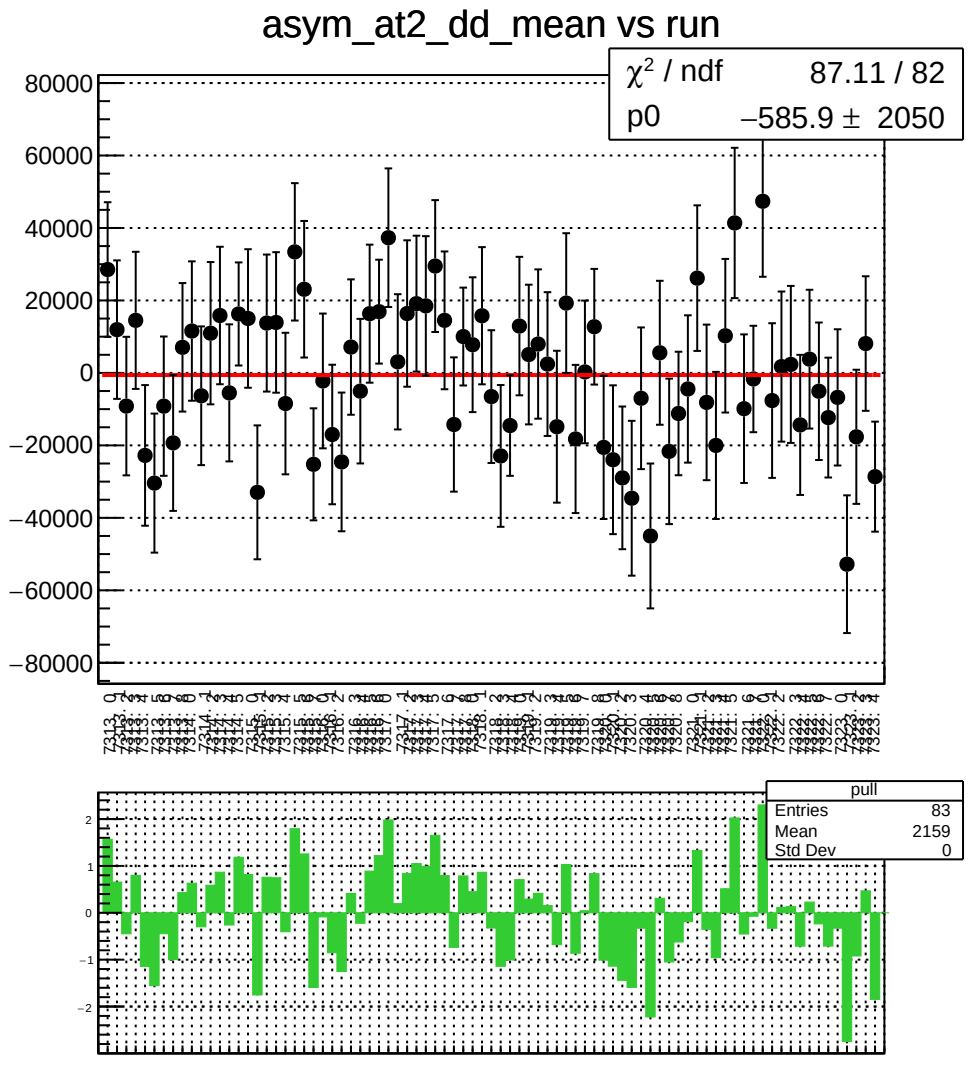

pull1D
Entries 83
Mean −0.008296
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

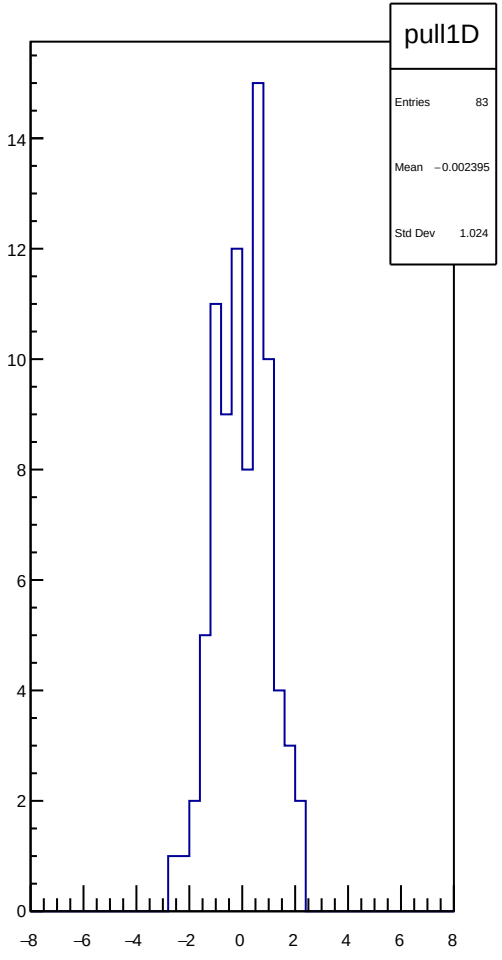

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 3499 / 82
p0 1814 ± 1.43
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

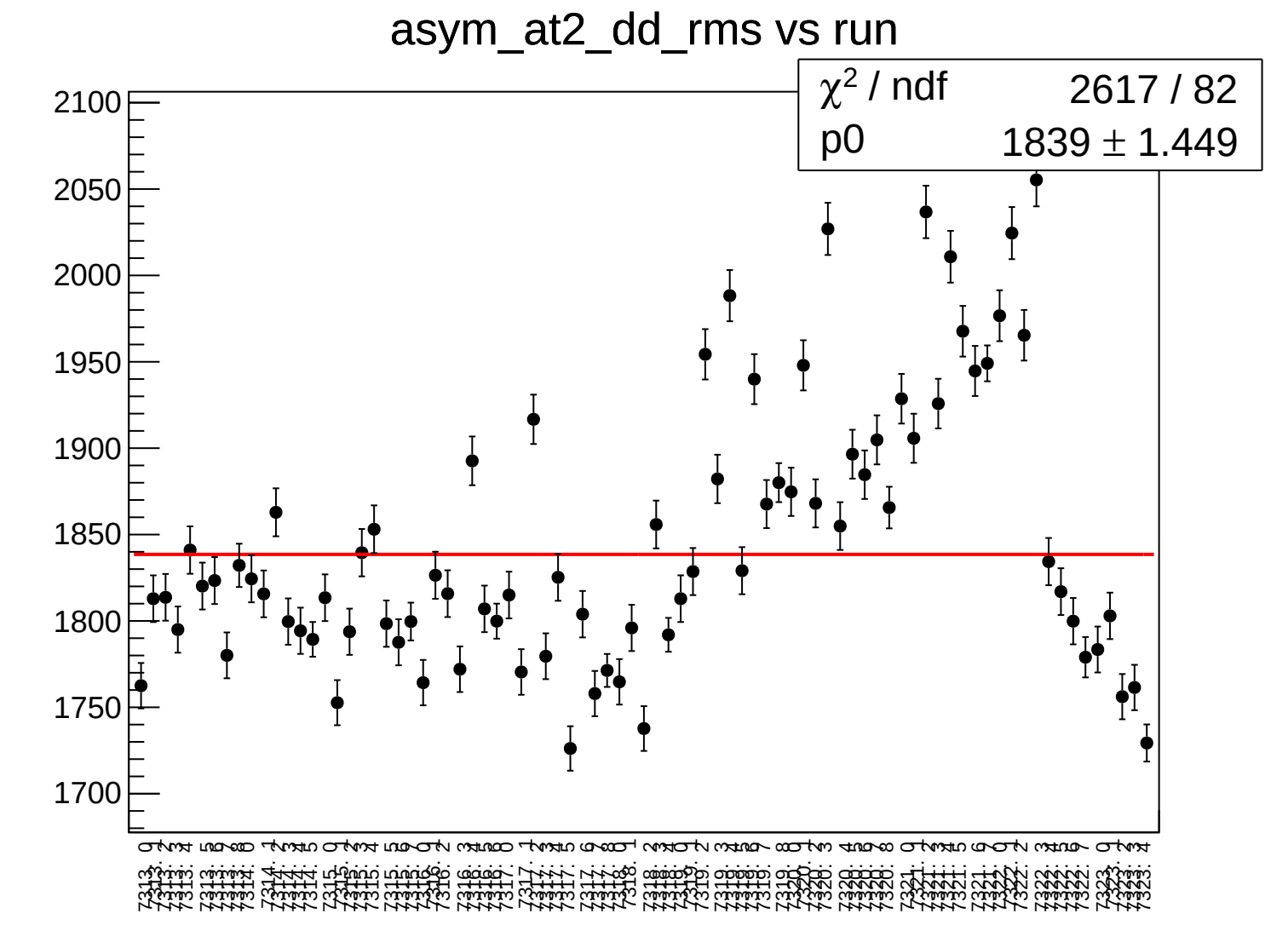

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 55.9 / 82
p0 −42.21 ± 717
pull
Entries 83
Mean −19.19
Std Dev 0

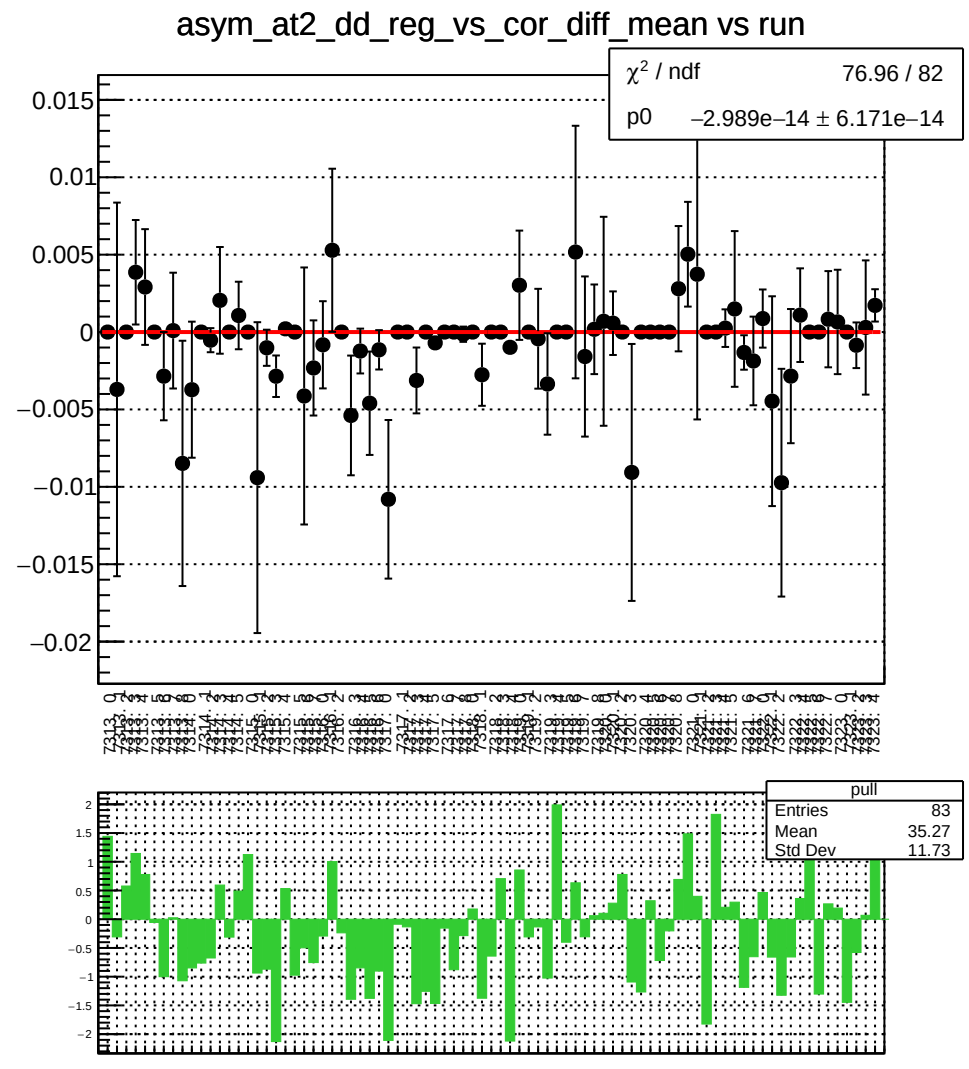

pull1D
Entries 83
Mean −0.01614
Std Dev 0.8205

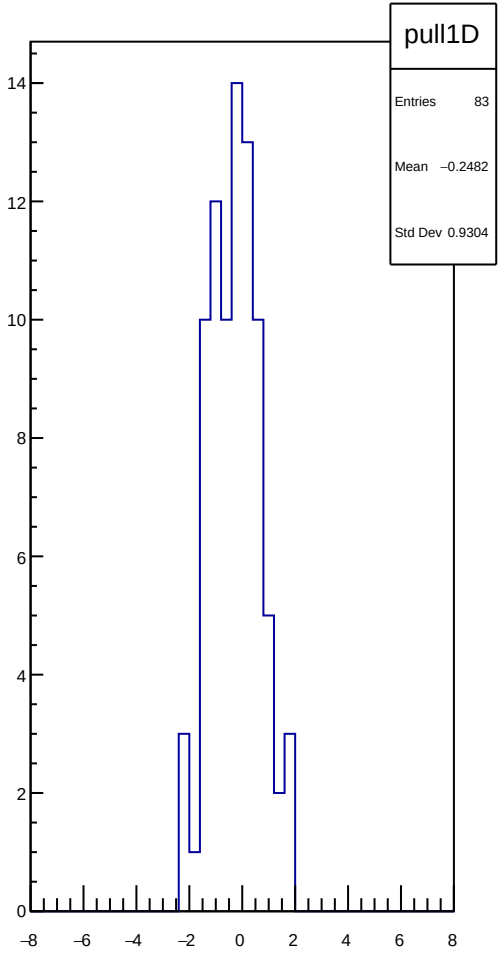

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3288 / 82
p0 643 ± 0.507
700
680
660
640
620
600
580

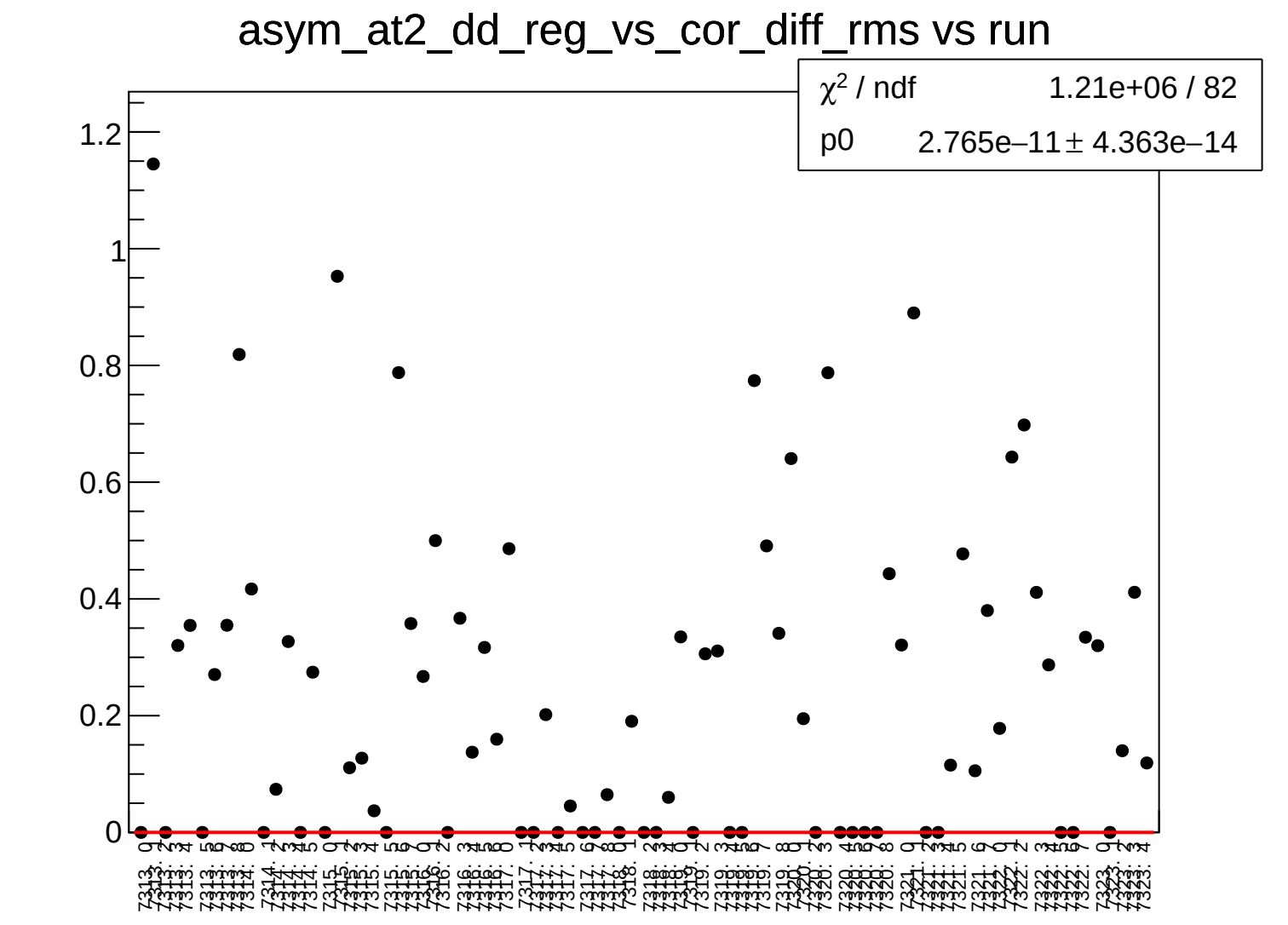

asym_at2_dd_mean vs run
χ² / ndf 87.11 / 82
p0 −585.9 ± 2050
pull
Entries 83
Mean 2159
Std Dev 0

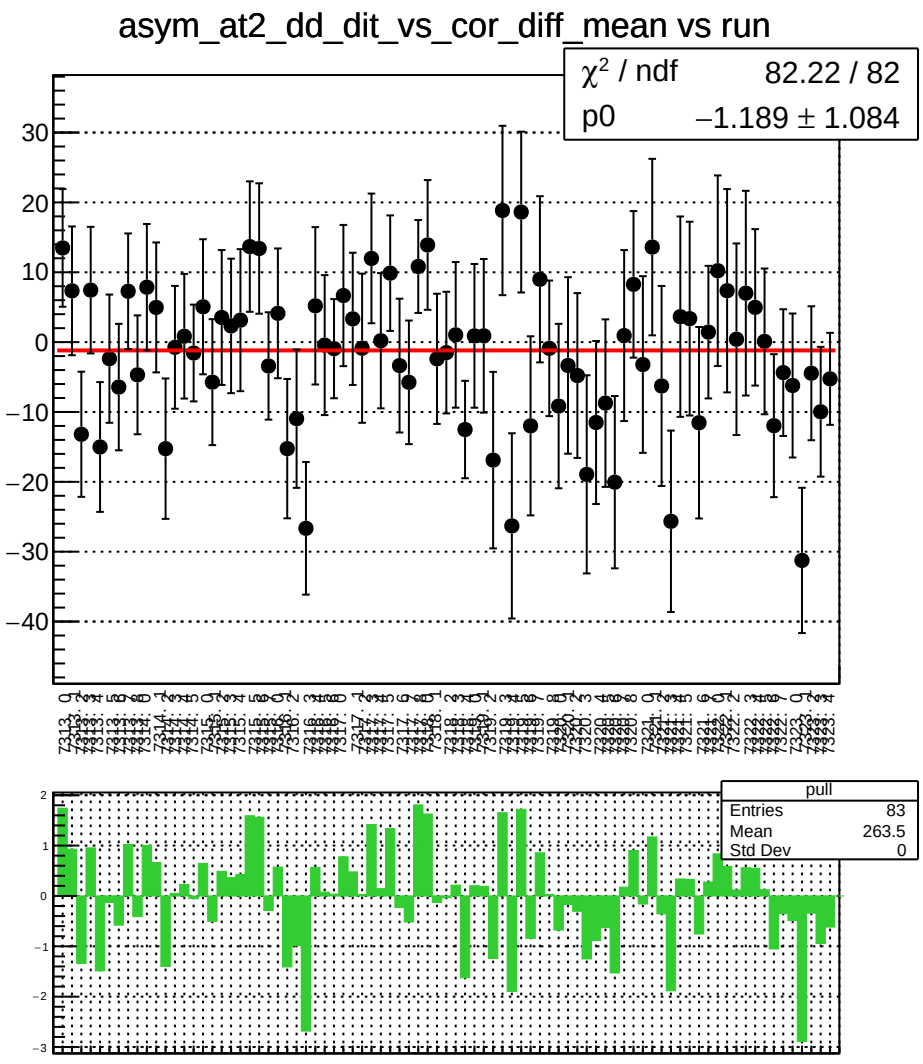

pull1D
Entries 83
Mean −0.002395
Std Dev 1.024

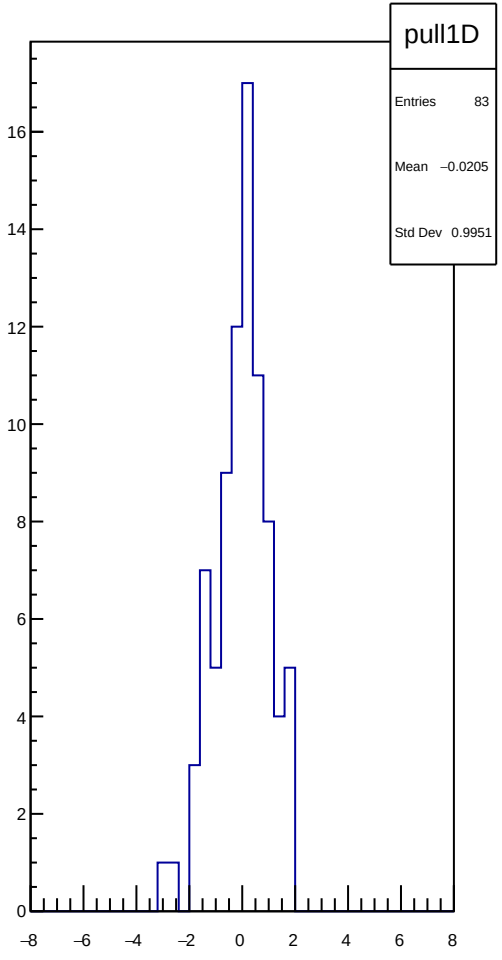

asym_at2_dd_rms vs run
χ² / ndf 2617 / 82
p0 1839 ± 1.449
2100
2050
2000
1950
1900
1850
1800
1750
1700

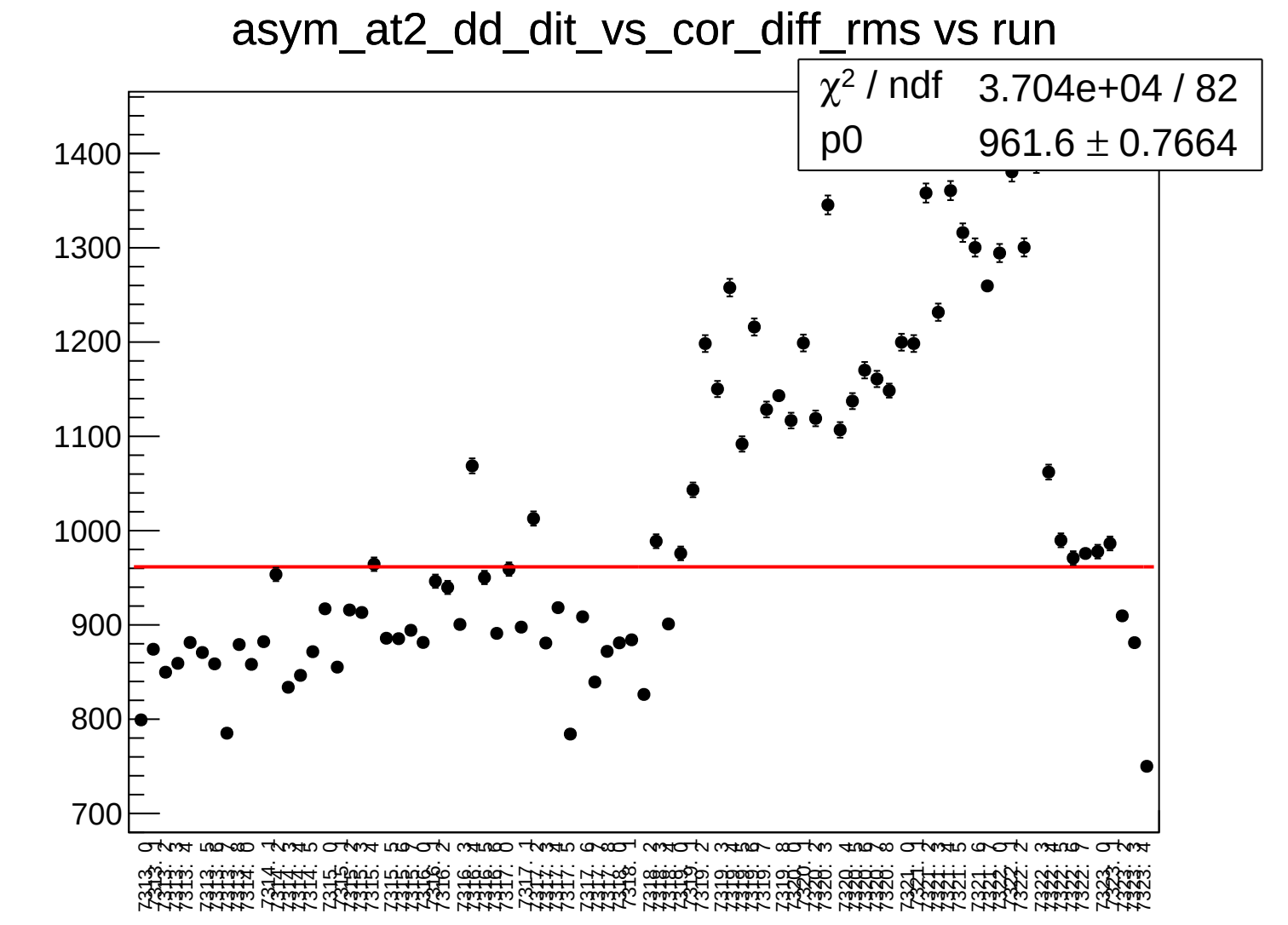

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.96 / 82
p0 −2.989e−14 ± 6.171e−14
pull
Entries 83
Mean 35.27
Std Dev 11.73

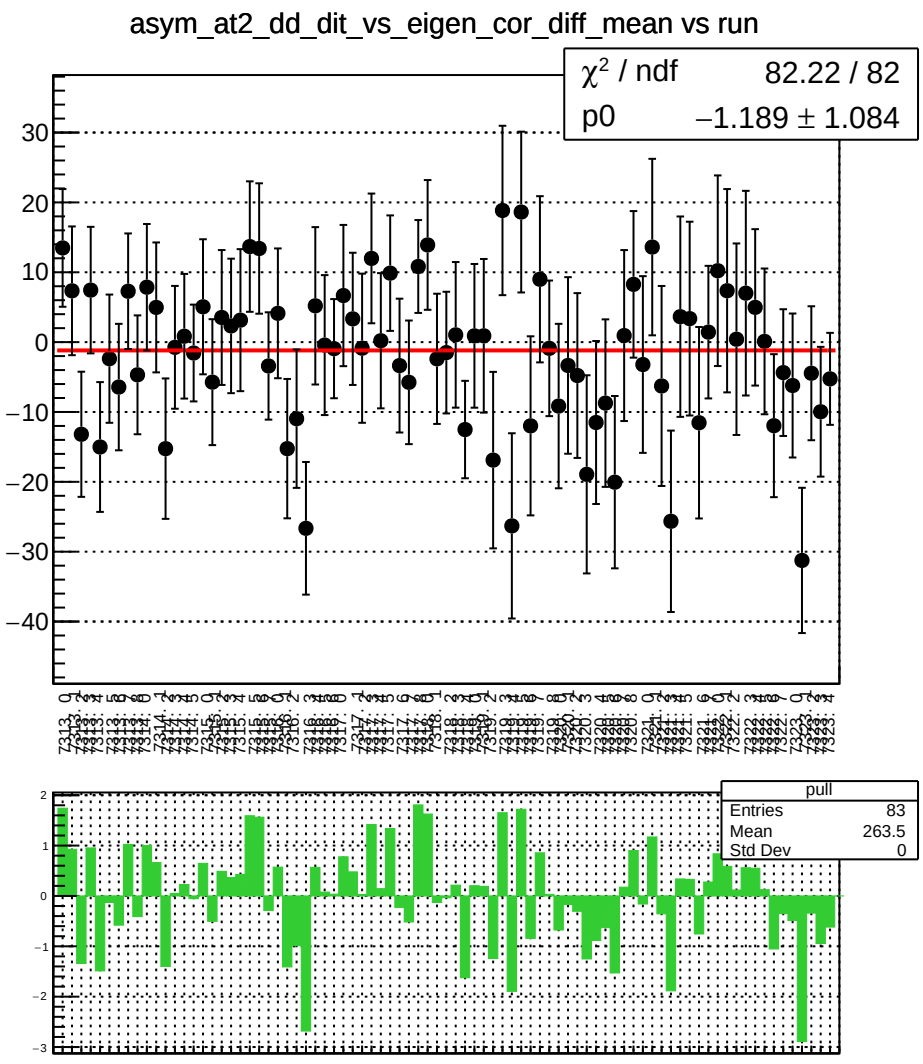

pull1D
Entries 83
Mean −0.2482
Std Dev 0.9304

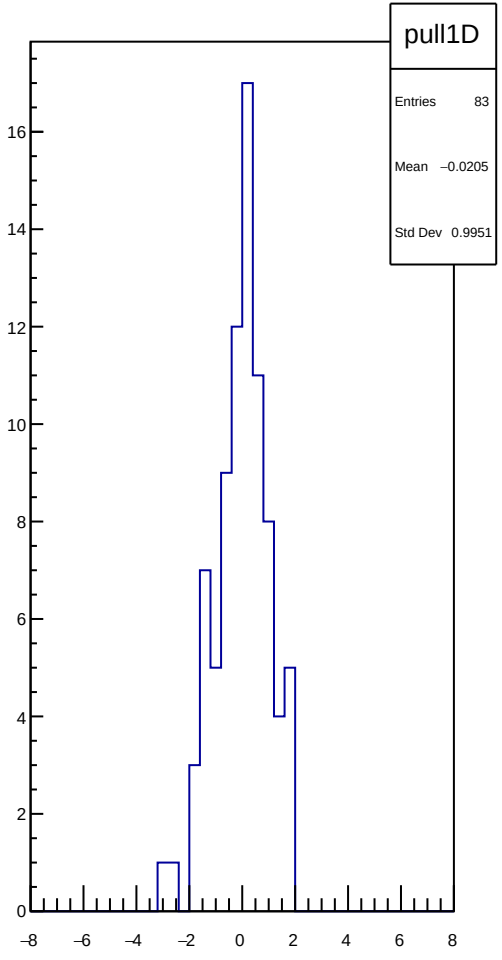

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 82
p0 2.765e−11 ± 4.363e−14
1.2
1
0.8
0.6
0.4
0.2
0

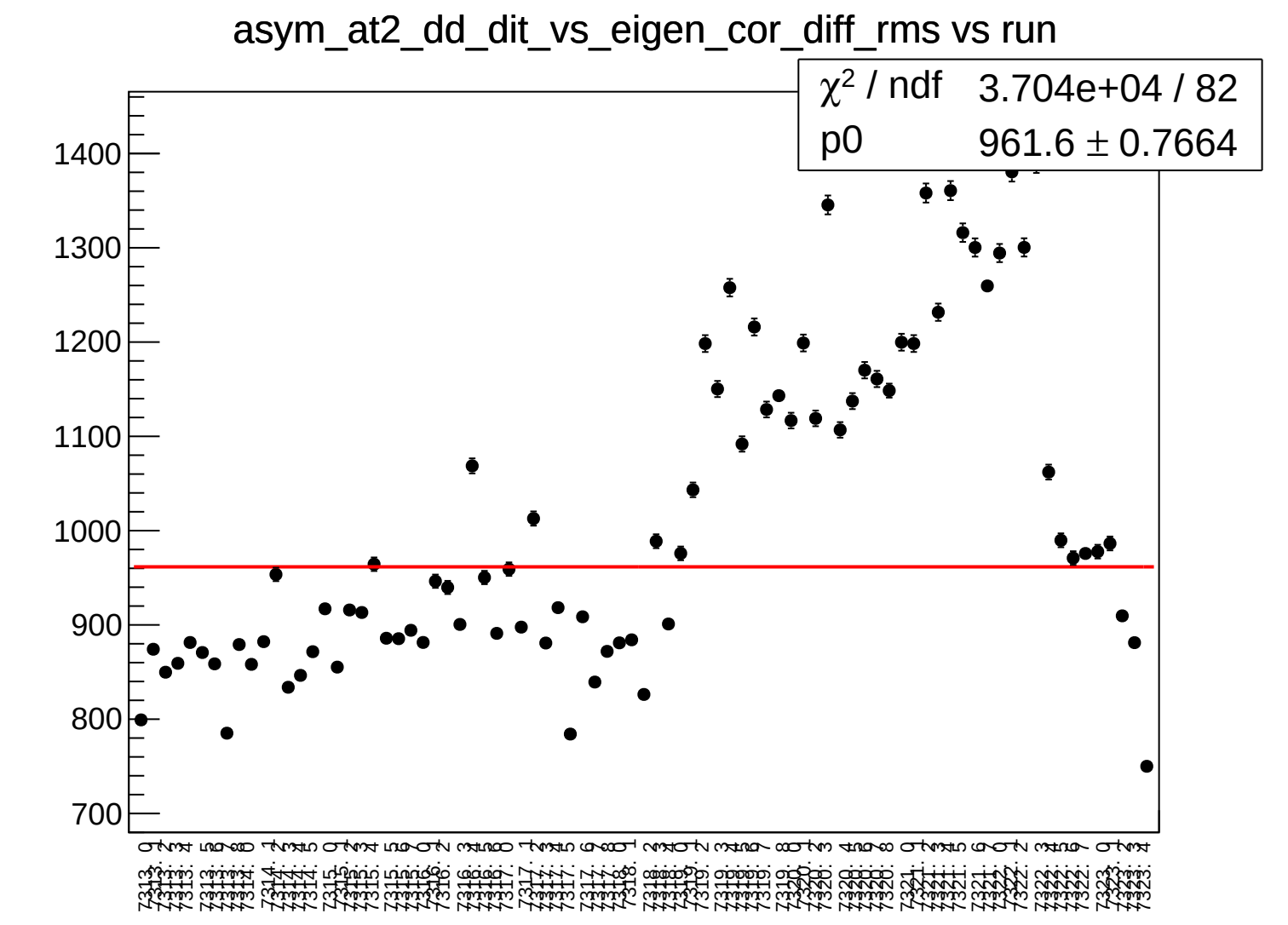

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −1.189 ± 1.084
pull
Entries 83
Mean 263.5
Std Dev 0

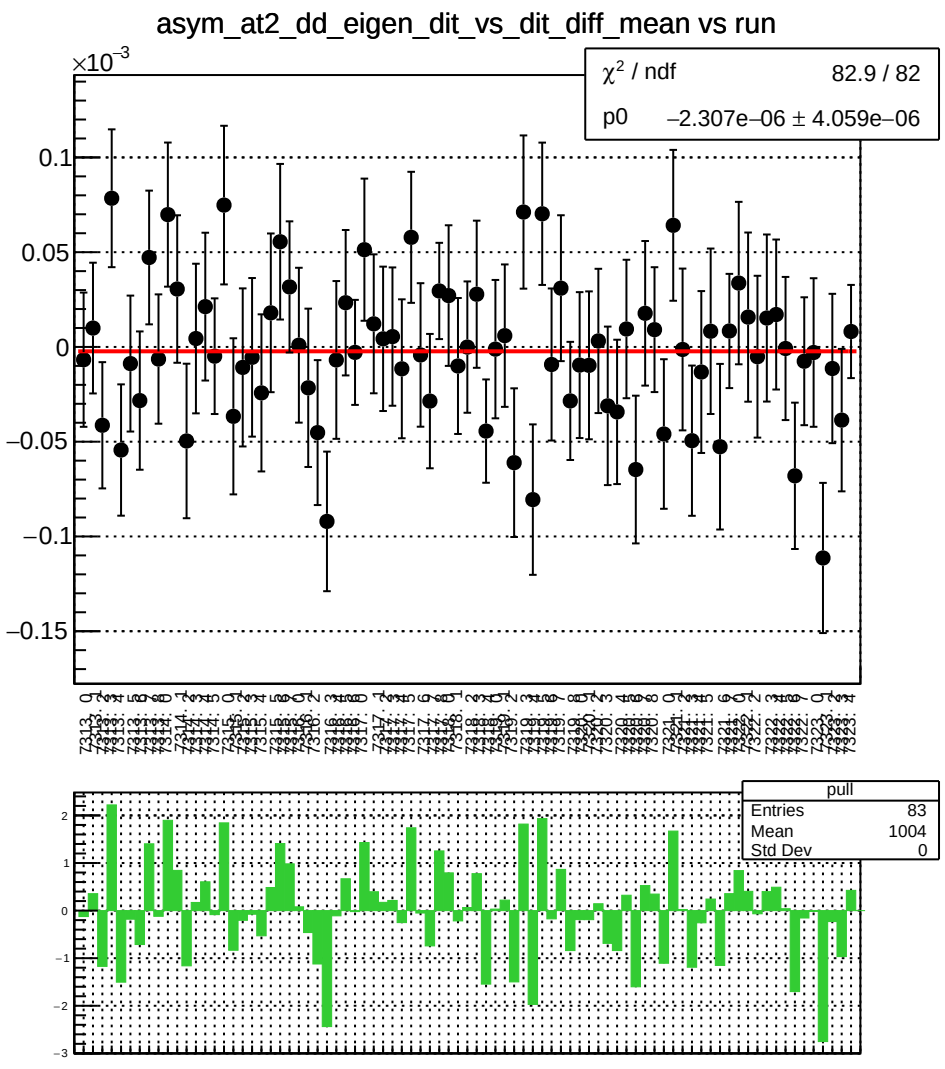

pull1D
Entries 83
Mean −0.0205
Std Dev 0.9951

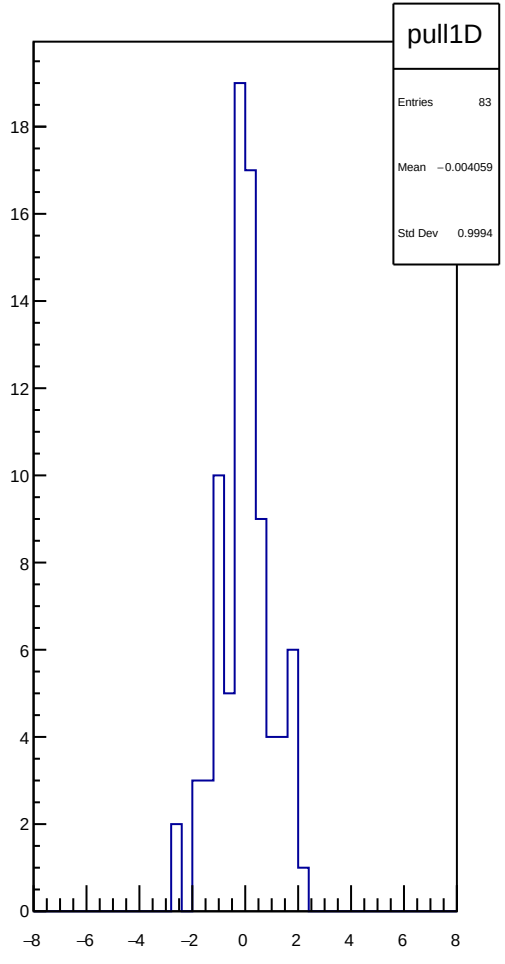

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.704e+04 / 82
p0 961.6 ± 0.7664
1400
1300
1200
1100
1000
900
800
700

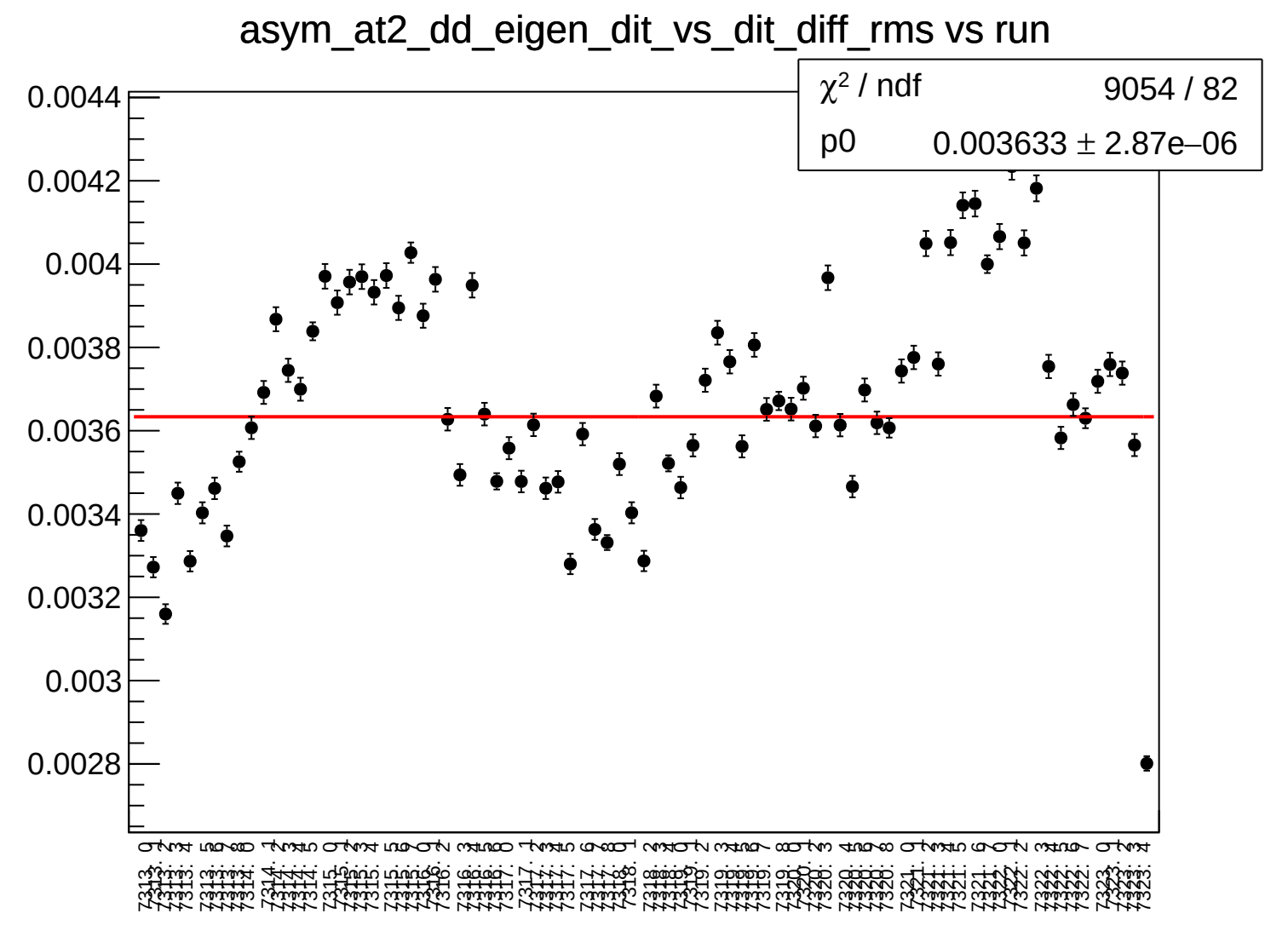

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −1.189 ± 1.084
pull
Entries 83
Mean 263.5
Std Dev 0

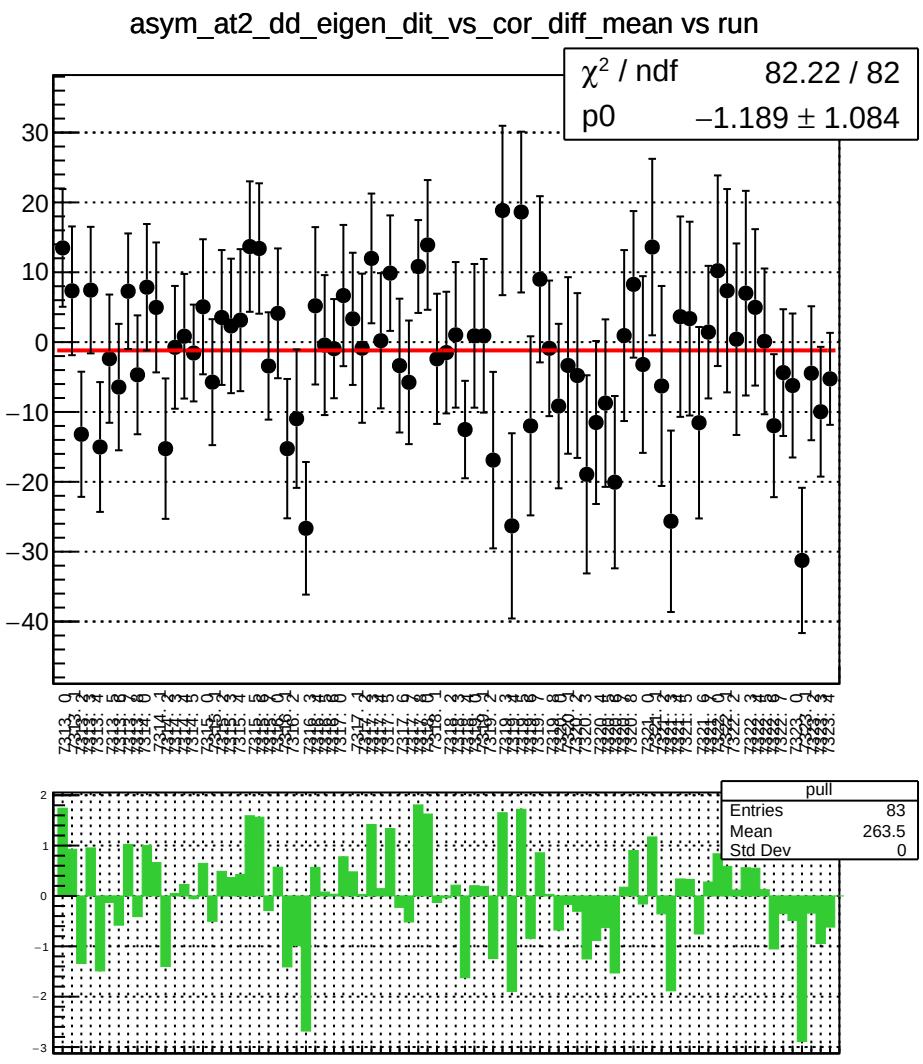

pull1D
Entries 83
Mean −0.0205
Std Dev 0.9951

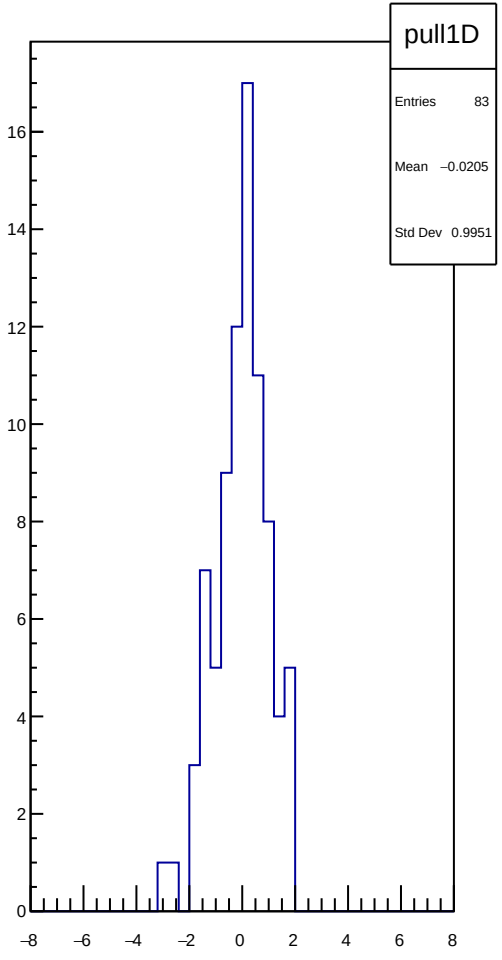

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.704e+04 / 82
p0 961.6 ± 0.7664
1400
1300
1200
1100
1000
900
800
700

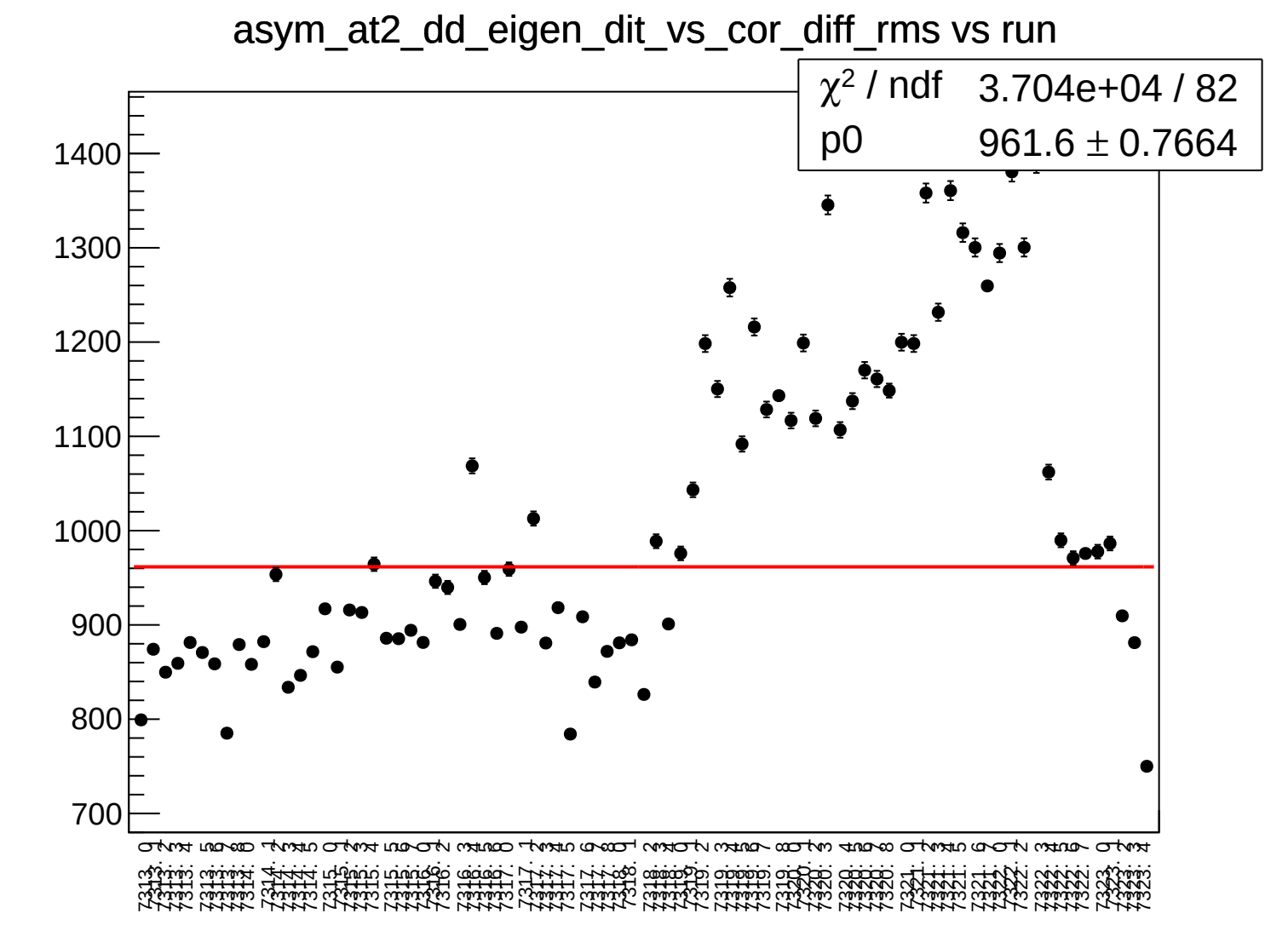

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.9 / 82
p0 −2.307e−06 ± 4.059e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 83
Mean 1004
Std Dev 0
2
1
0
−1
−2
−3

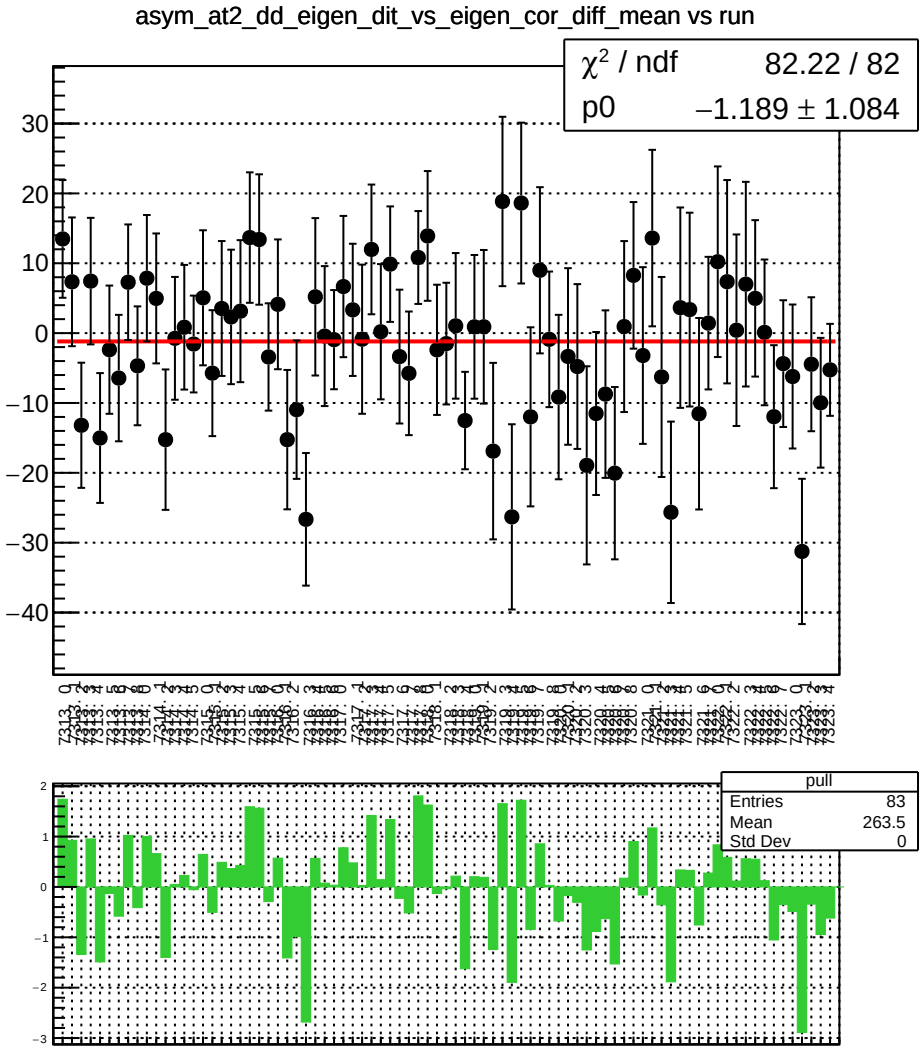

pull1D
Entries 83
Mean −0.004059
Std Dev 0.9994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

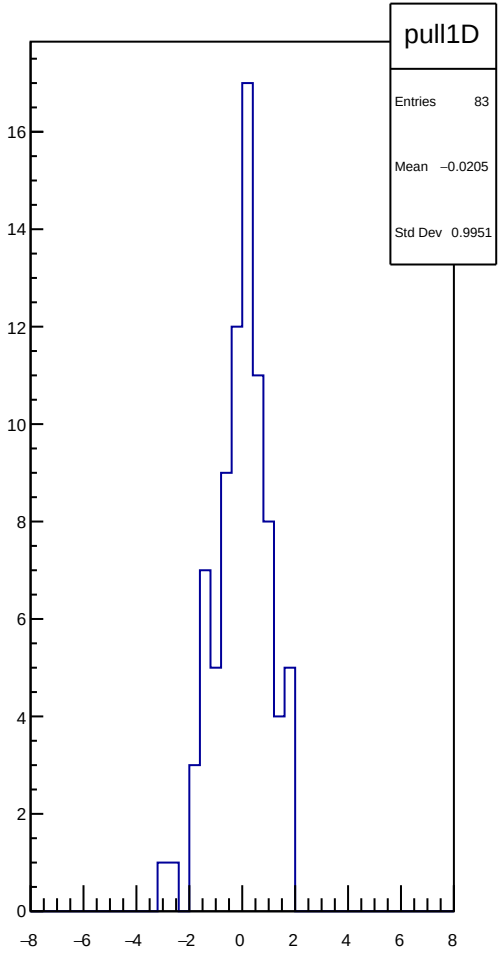

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9054 / 82
p0 0.003633 ± 2.87e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

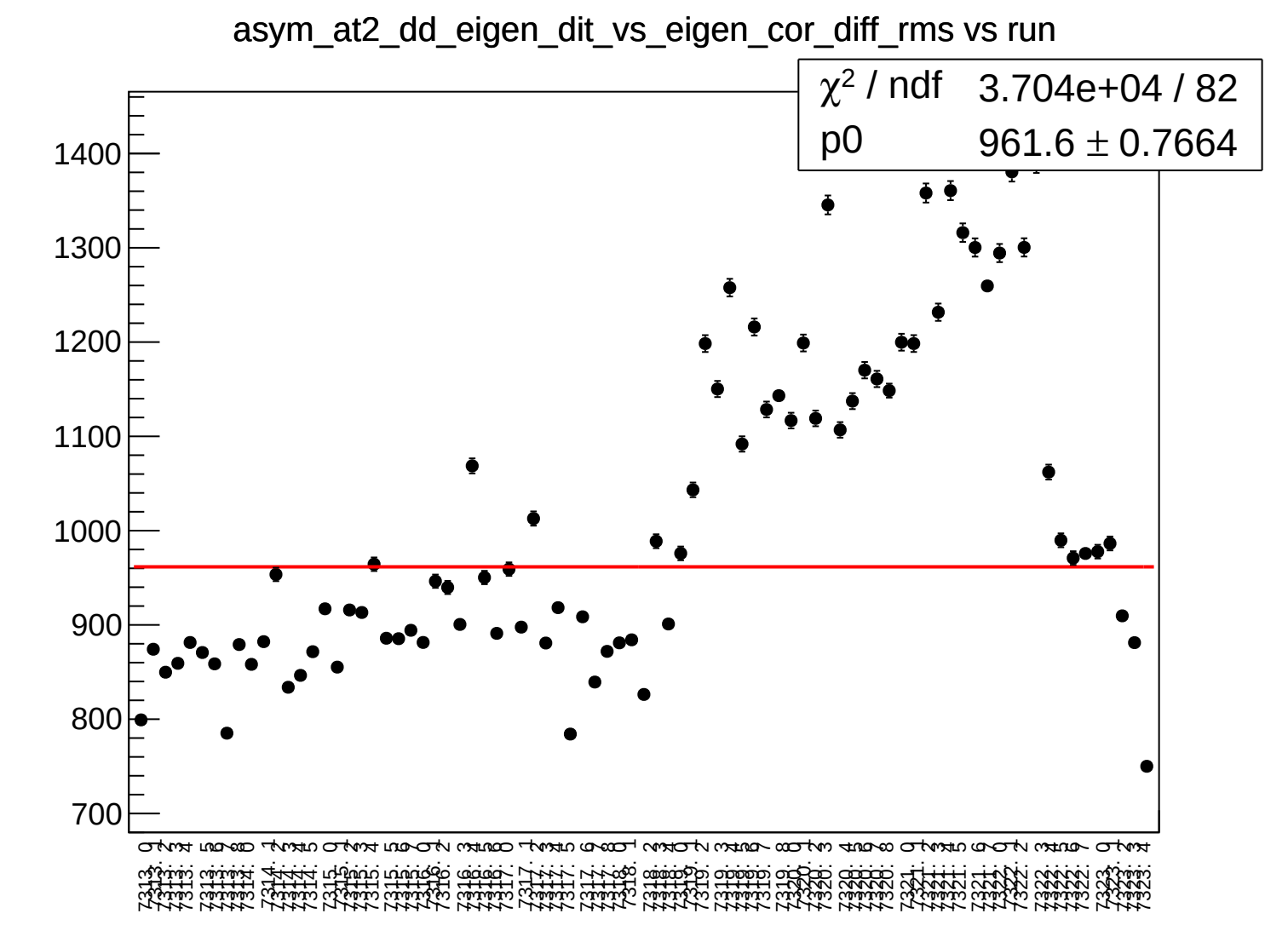

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −1.189 ± 1.084
pull
Entries 83
Mean 263.5
Std Dev 0

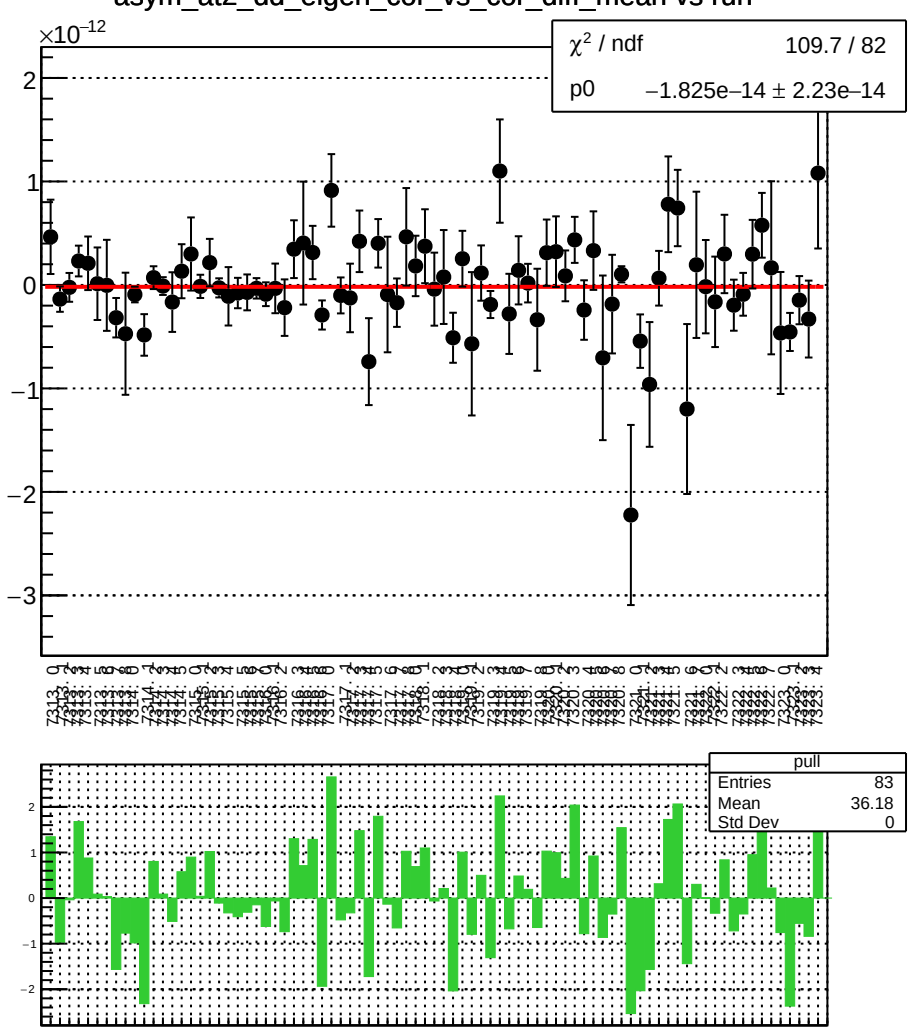

pull1D
Entries 83
Mean −0.0205
Std Dev 0.9951

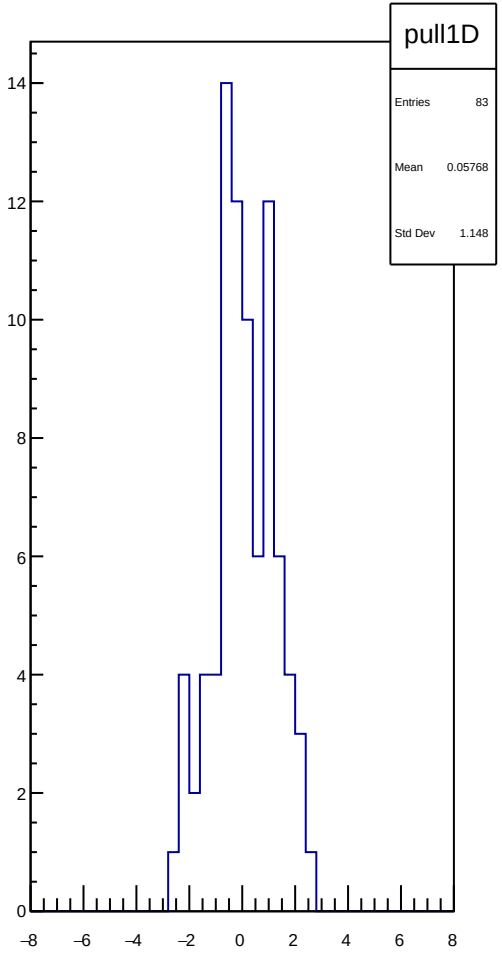

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.704e+04 / 82
p0 961.6 ± 0.7664
1400
1300
1200
1100
1000
900
800
700

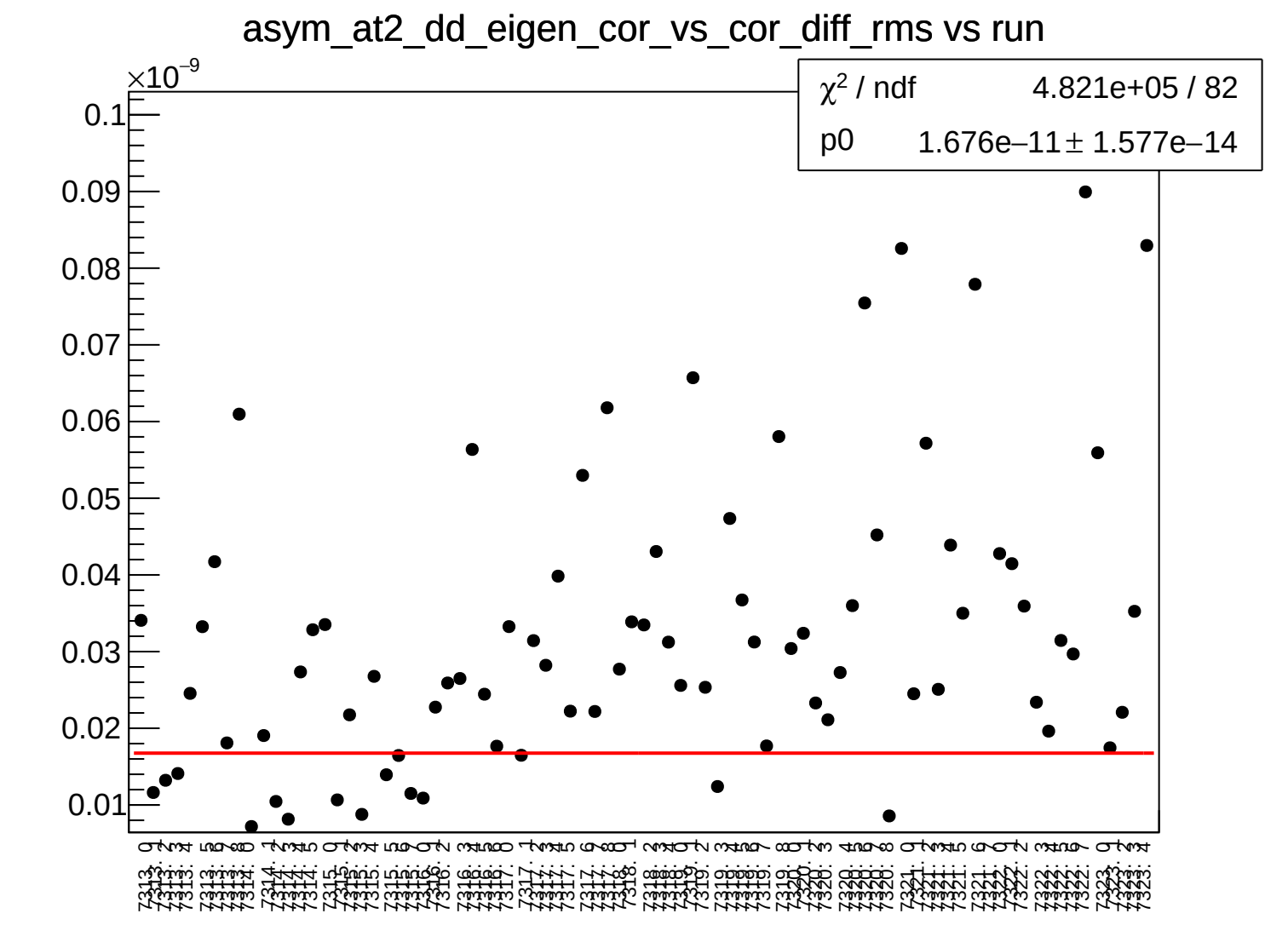

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −1.189 ± 1.084
pull
Entries 83
Mean 263.5
Std Dev 0

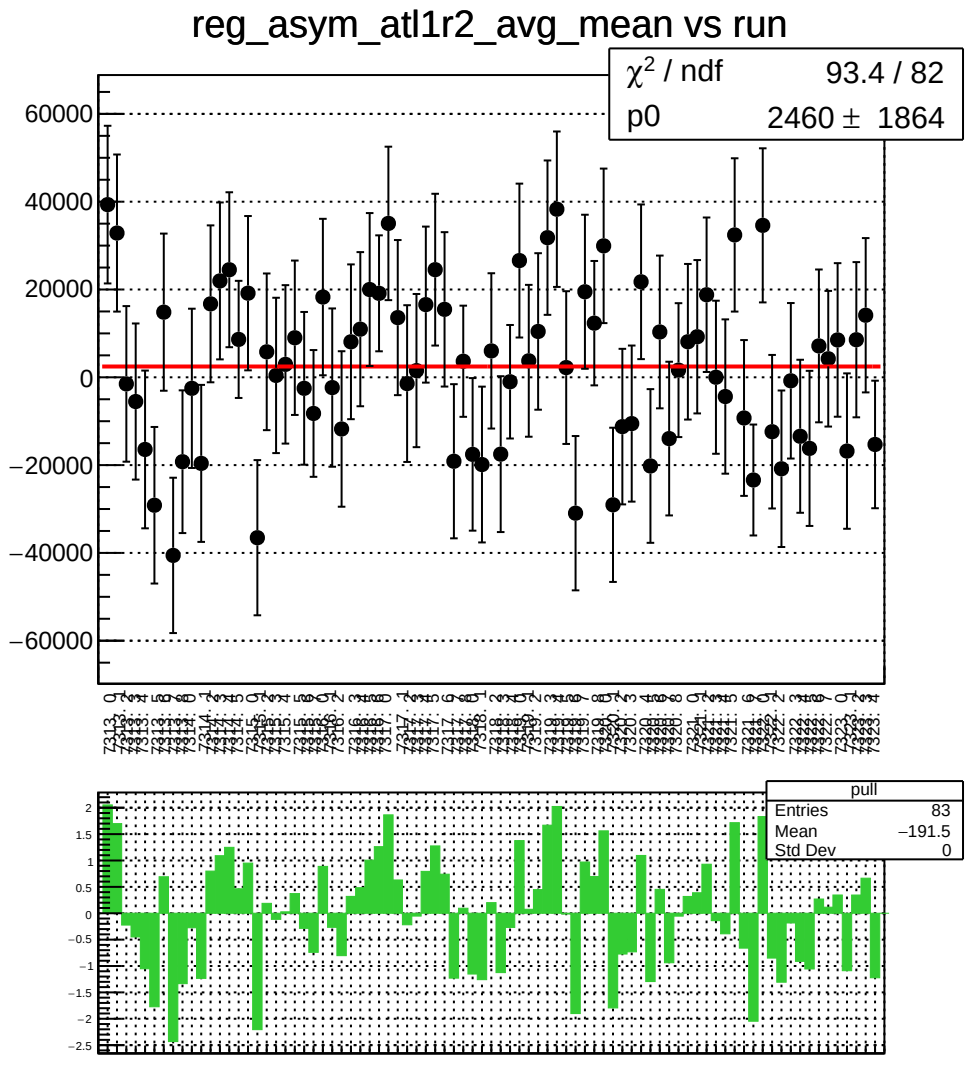

pull1D
Entries 83
Mean −0.0205
Std Dev 0.9951

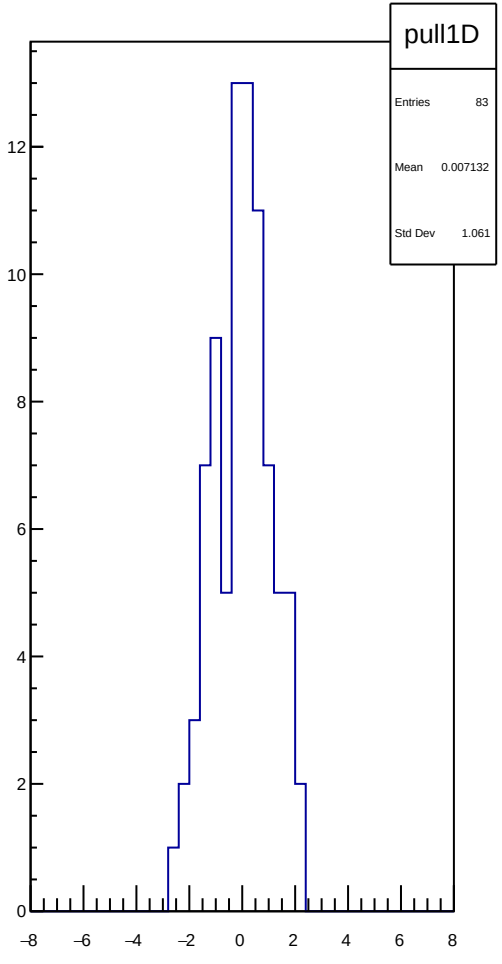

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.704e+04 / 82
p0 961.6 ± 0.7664
1400
1300
1200
1100
1000
900
800
700

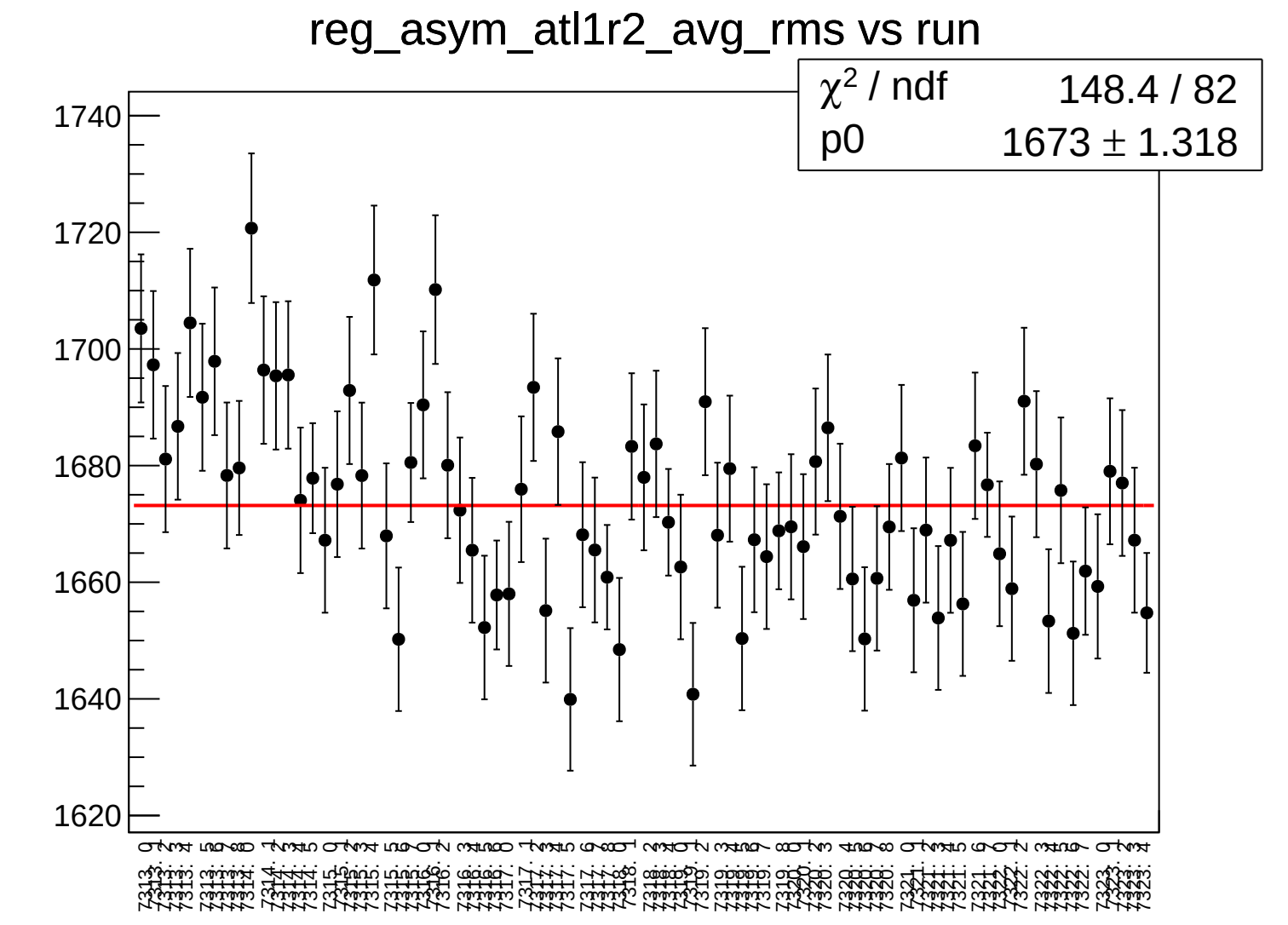

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.7 / 82
p0 −1.825e−14 ± 2.23e−14
pull
Entries 83
Mean 36.18
Std Dev 0

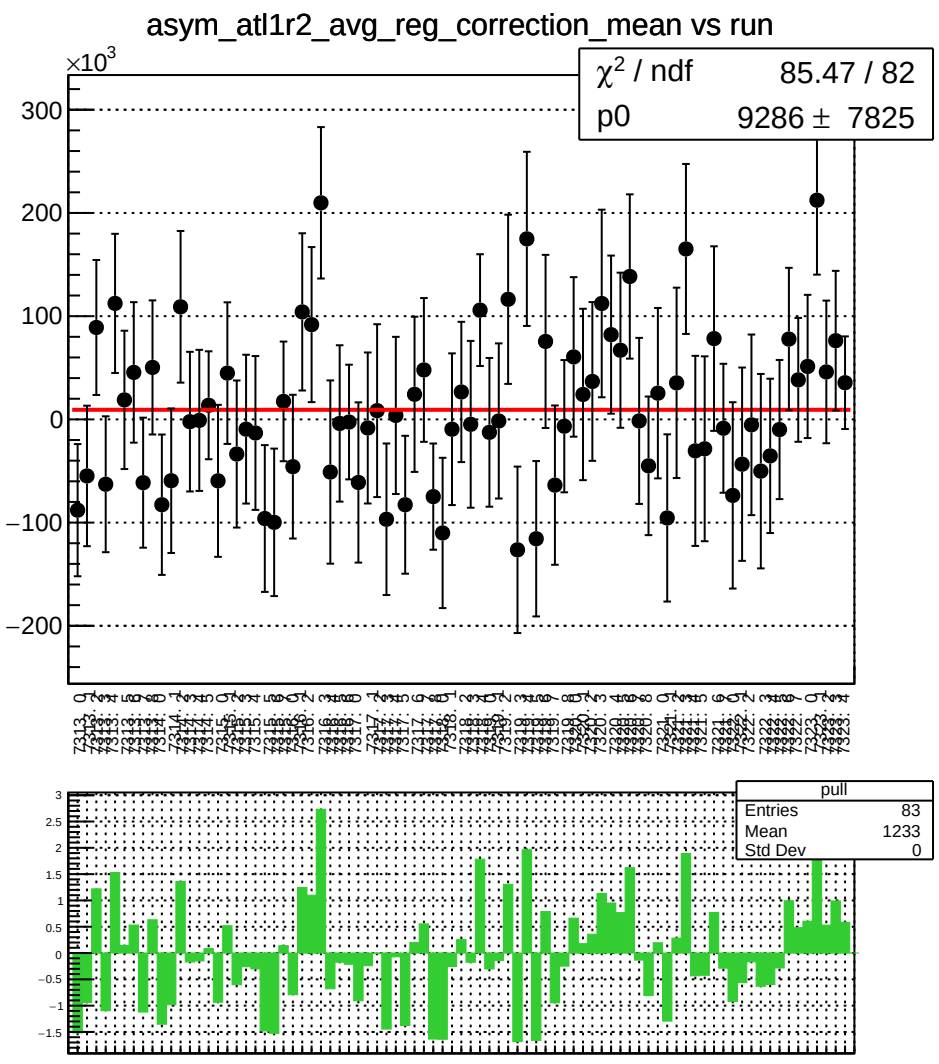

pull1D
Entries 83
Mean 0.05768
Std Dev 1.148

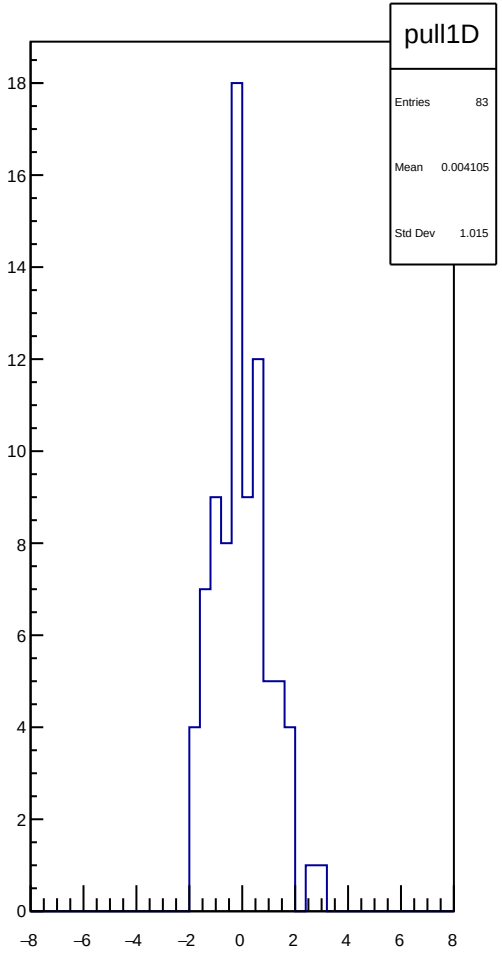

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.821e+05 / 82
p0 1.676e−11 ± 1.577e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

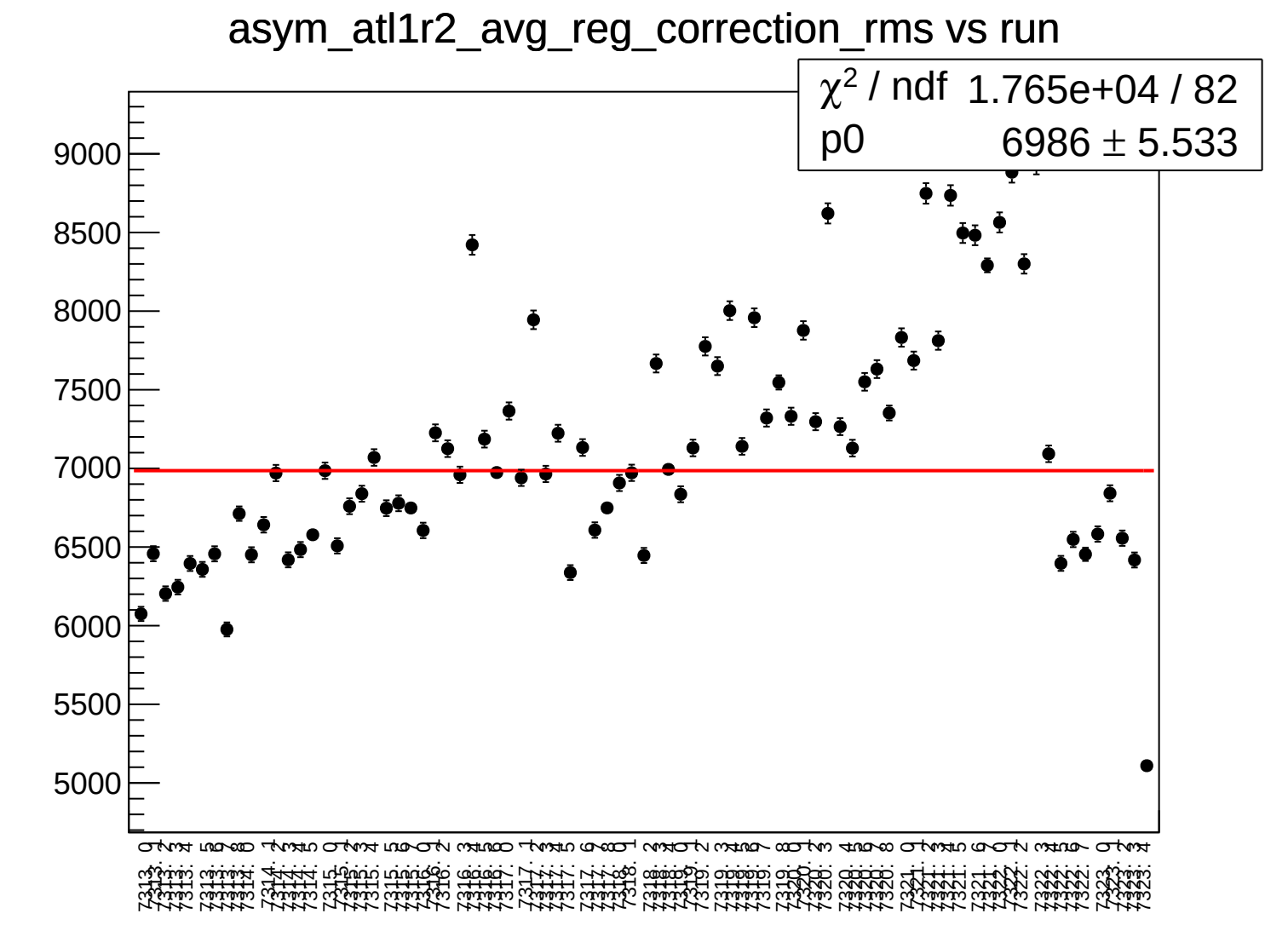

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 93.4 / 82
p0 2460 ± 1864
pull
Entries 83
Mean −191.5
Std Dev 0

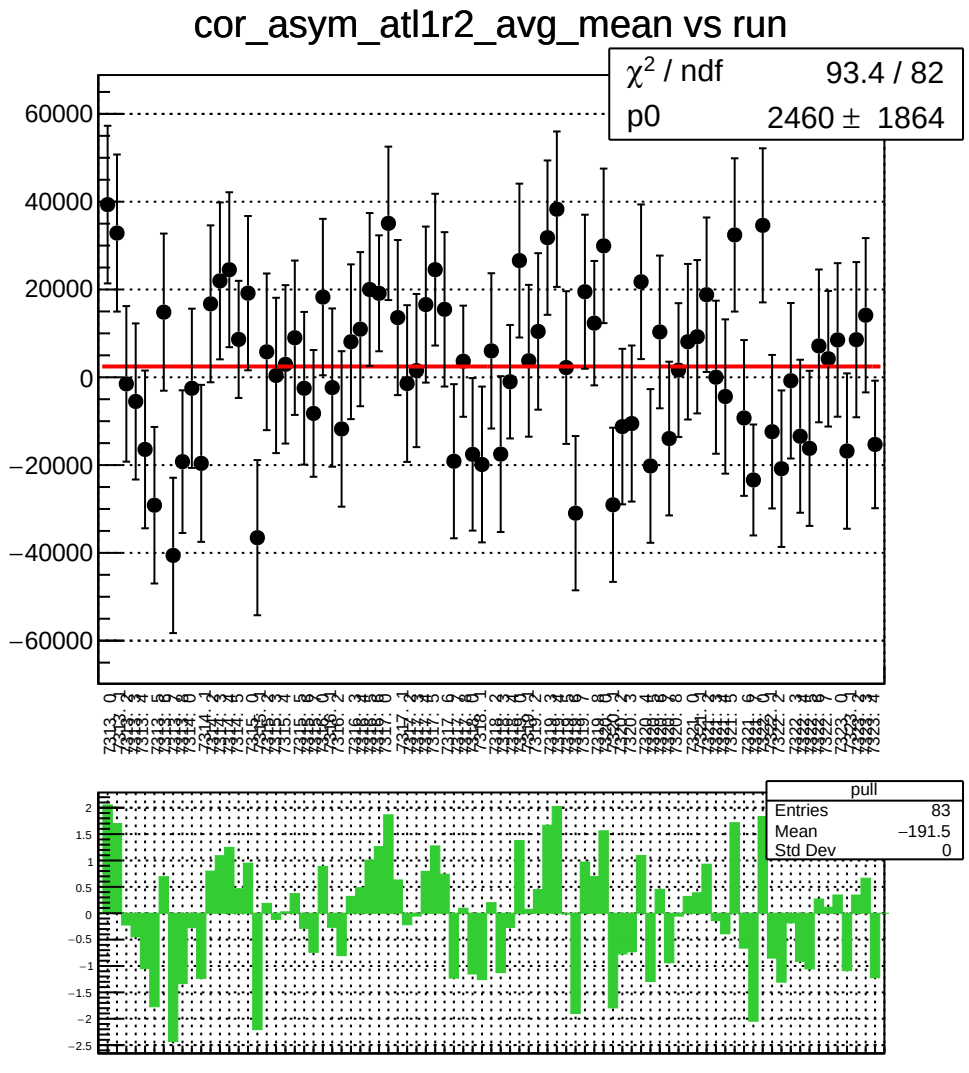

pull1D
Entries 83
Mean 0.007132
Std Dev 1.061

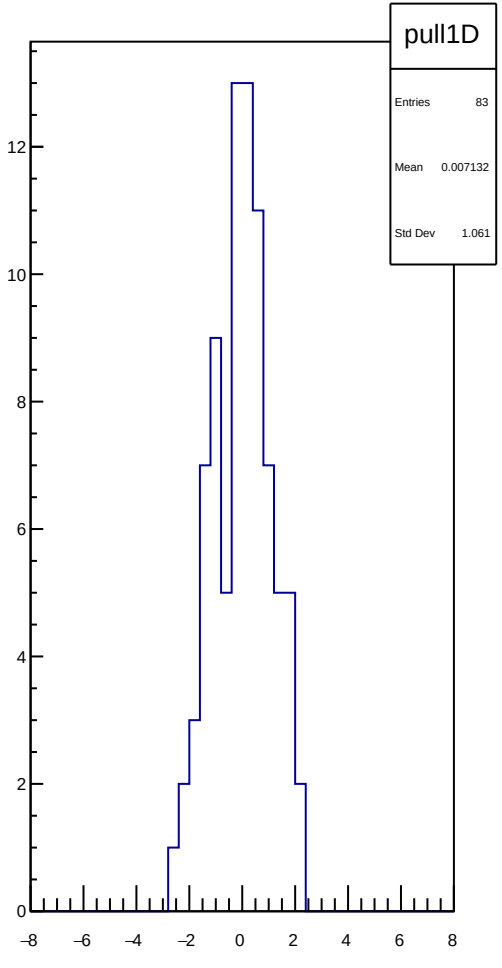

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 148.4 / 82
p0 1673 ± 1.318
1740
1720
1700
1680
1660
1640
1620

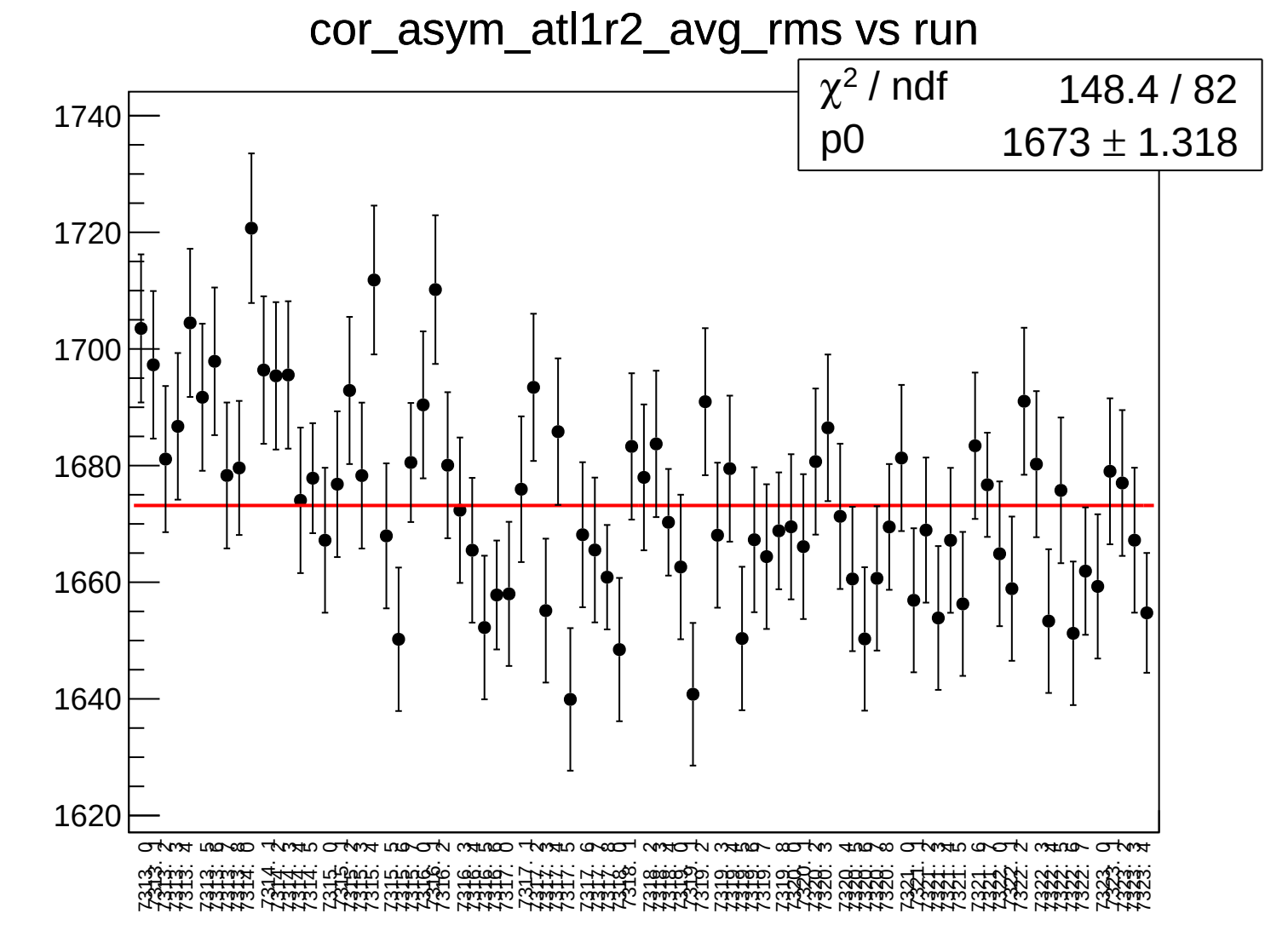

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.47 / 82
p0 9286 ± 7825
pull
Entries 83
Mean 1233
Std Dev 0

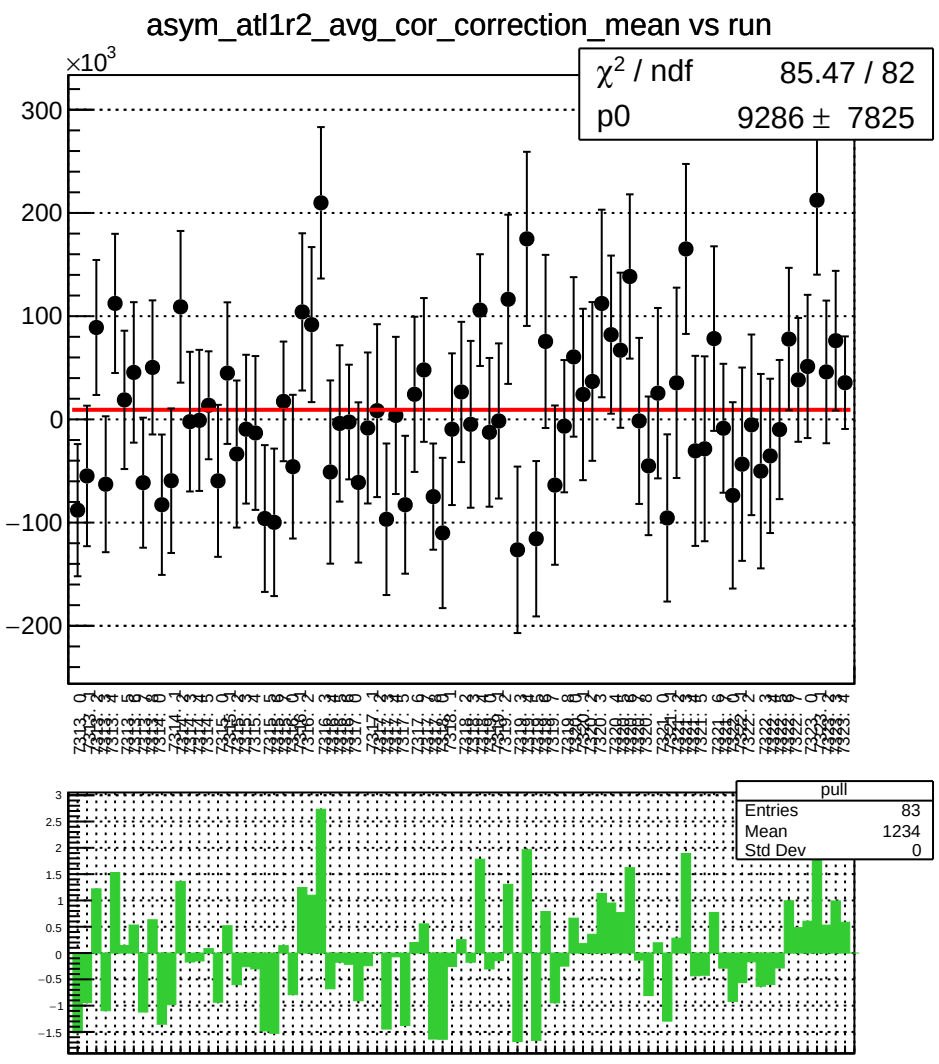

pull1D
Entries 83
Mean 0.004105
Std Dev 1.015

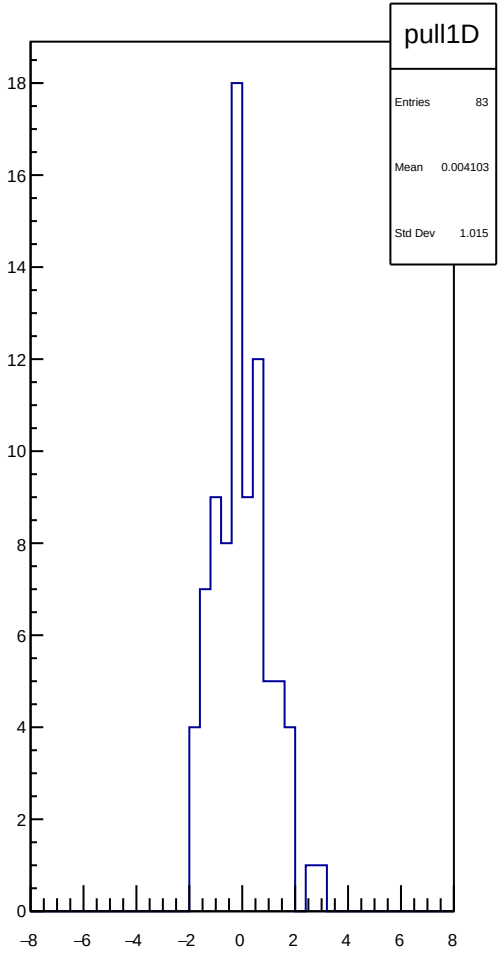

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.765e+04 / 82
p0 6986 ± 5.533
9000
8500
8000
7500
7000
6500
6000
5500
5000

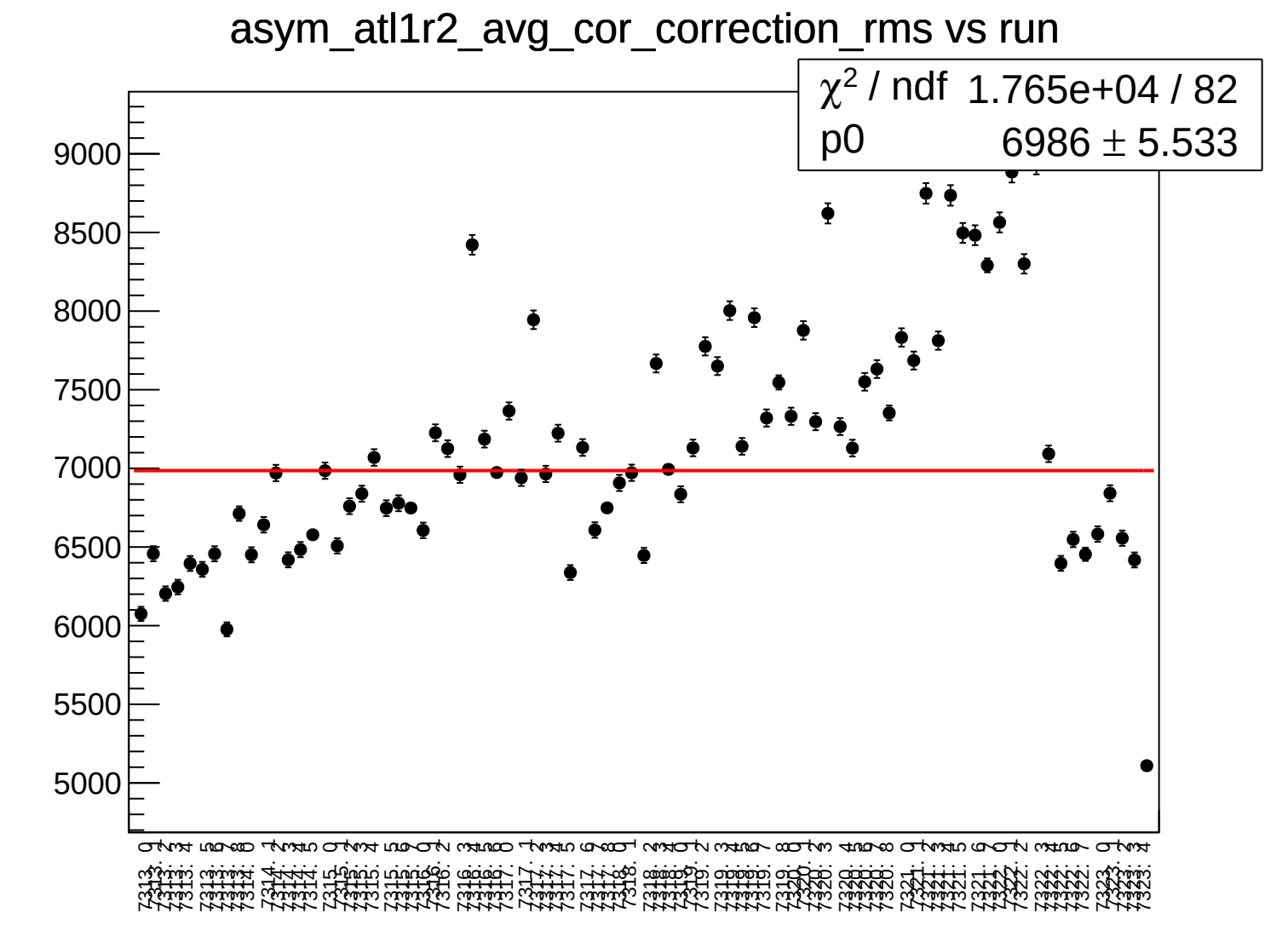

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 93.4 / 82
p0 2460 ± 1864
pull
Entries 83
Mean −191.5
Std Dev 0

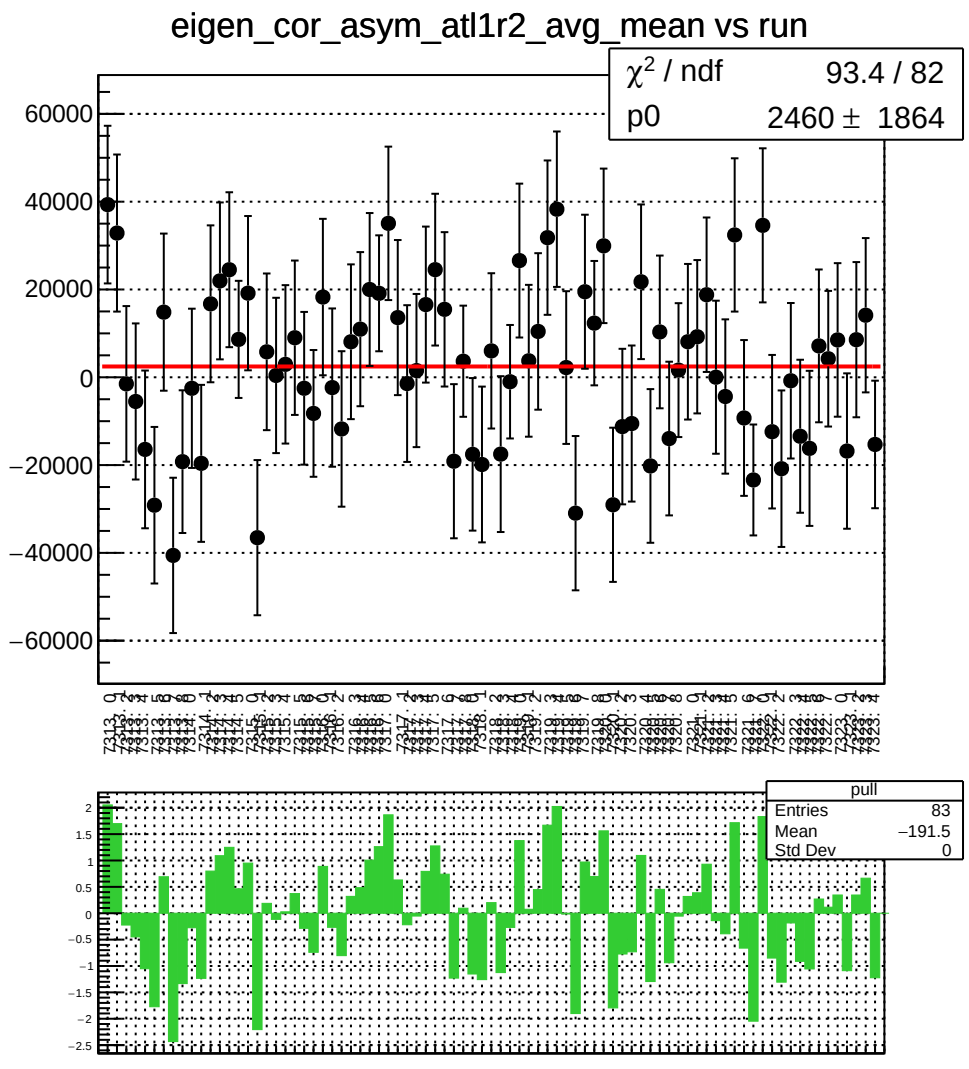

pull1D
Entries 83
Mean 0.007132
Std Dev 1.061

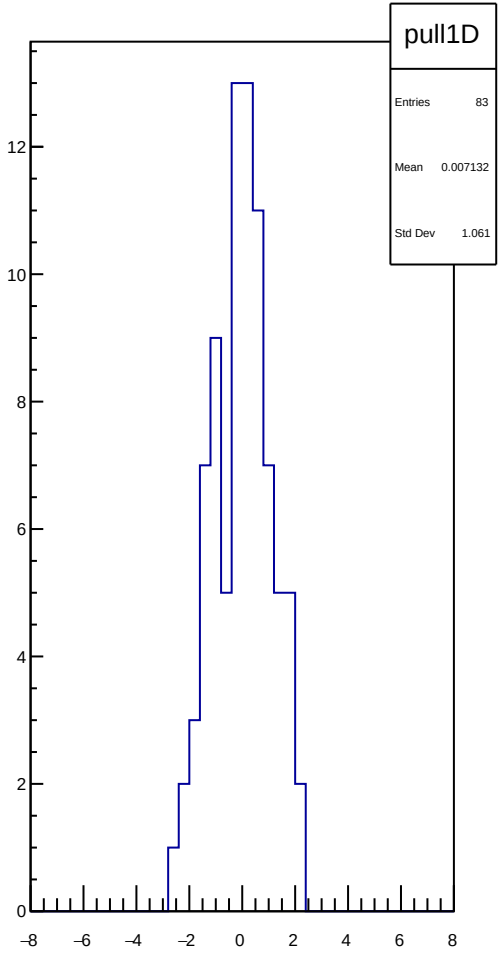

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 148.4 / 82
p0 1673 ± 1.318
1740
1720
1700
1680
1660
1640
1620

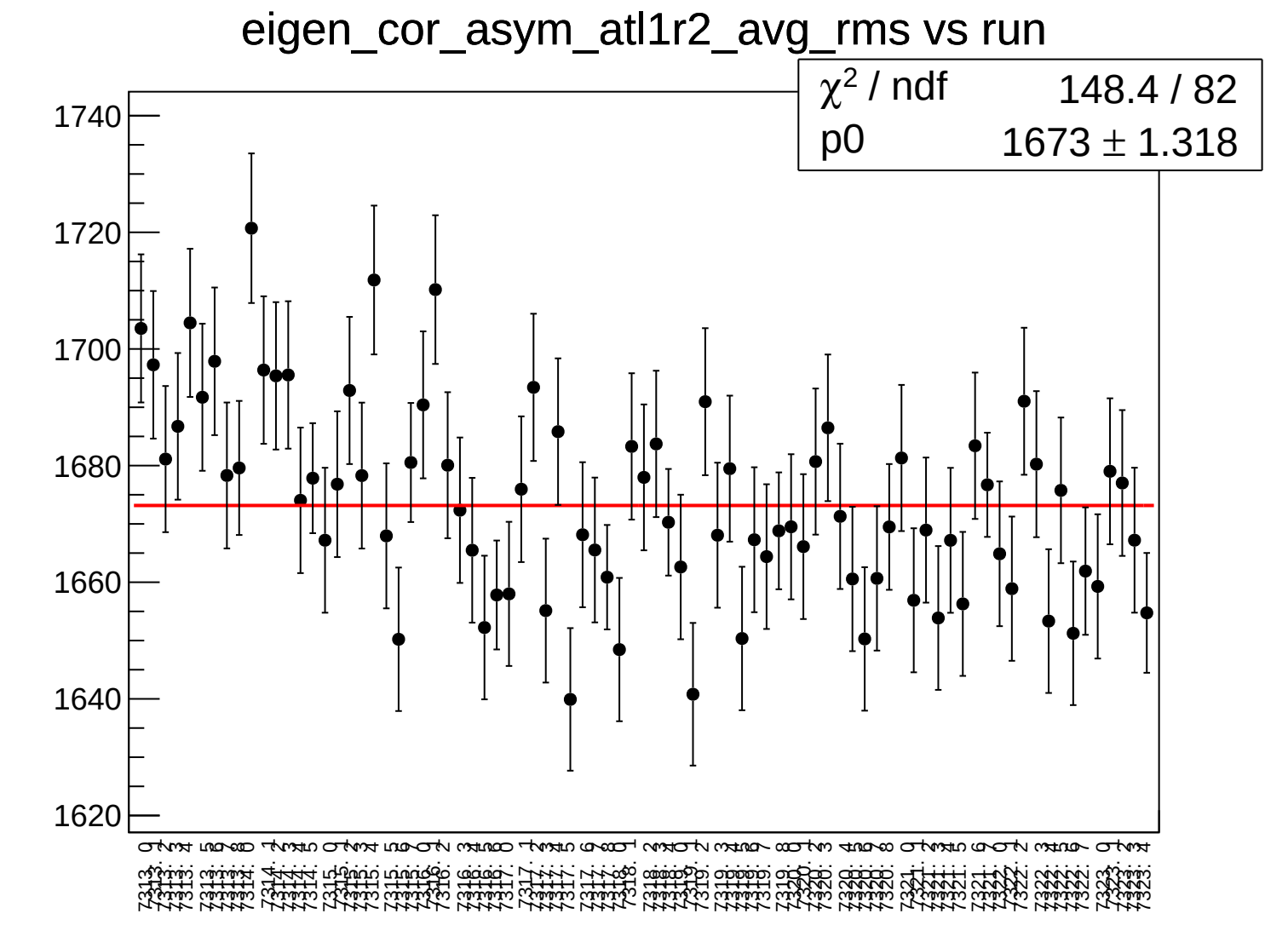

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.47 / 82
p0 9286 ± 7825
pull
Entries 83
Mean 1234
Std Dev 0

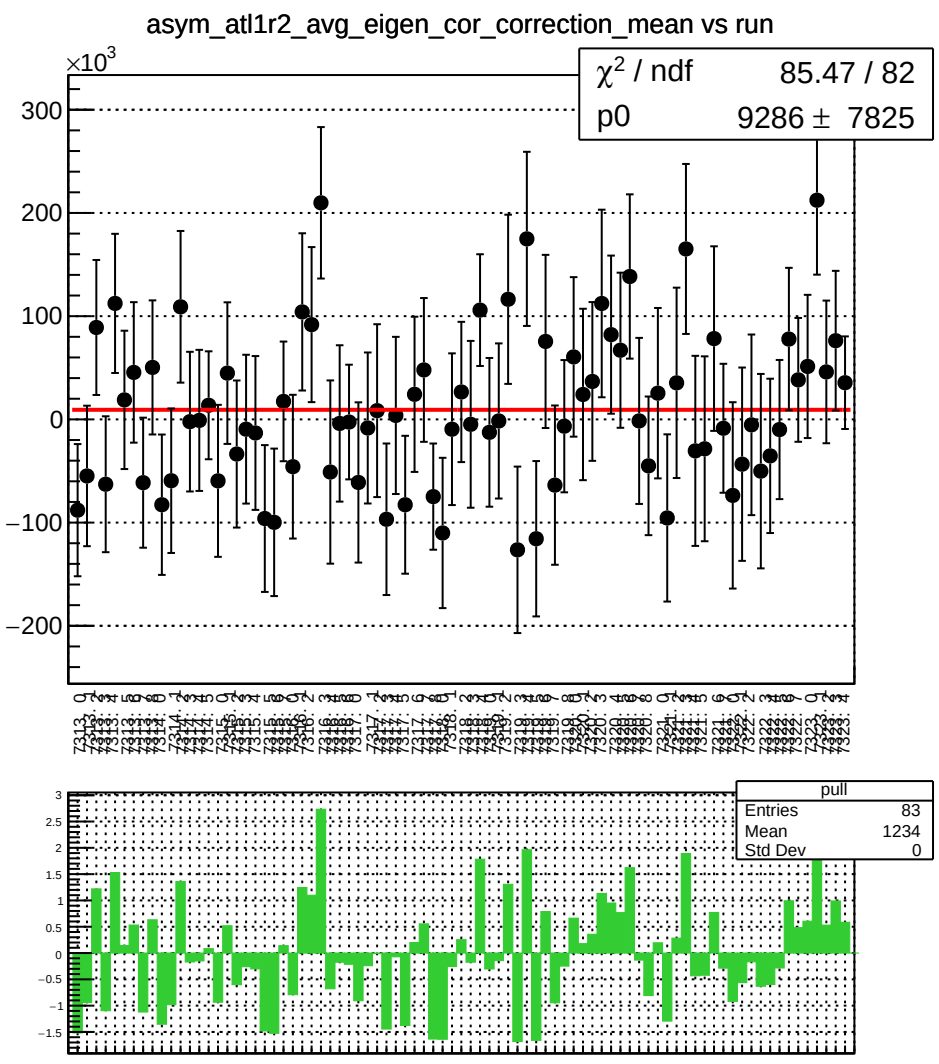

pull1D
Entries 83
Mean 0.004103
Std Dev 1.015

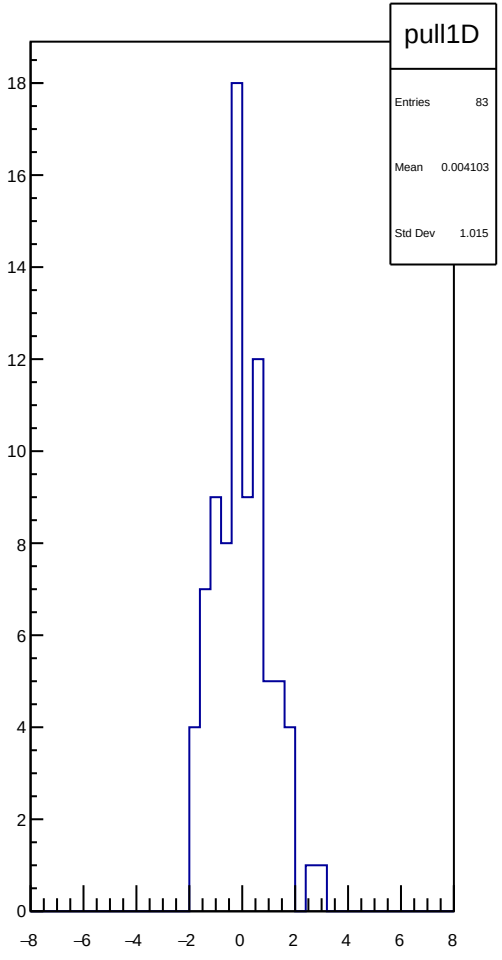

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.765e+04 / 82
p0 6986 ± 5.533
9000
8500
8000
7500
7000
6500
6000
5500
5000

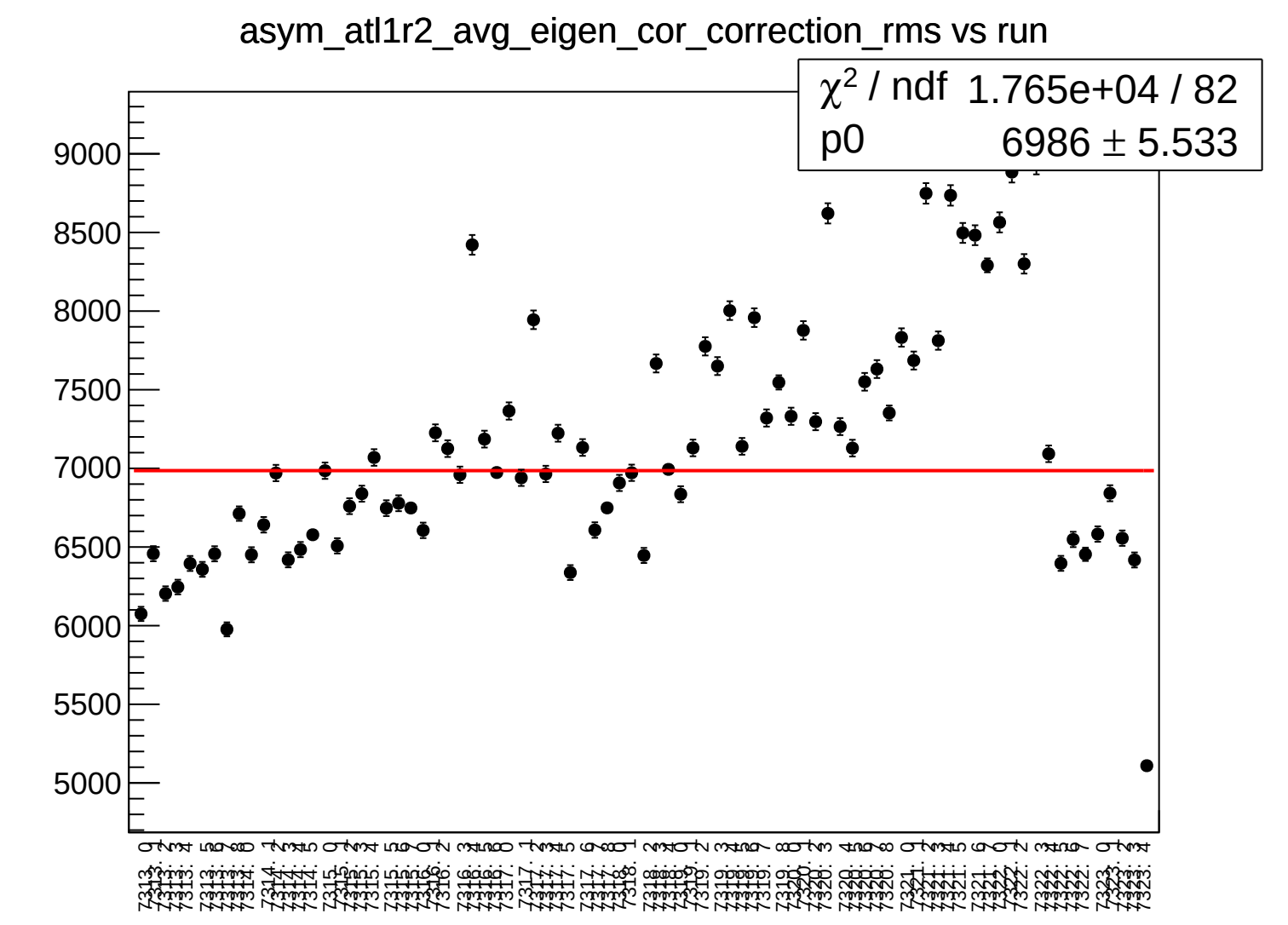

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 93.4 / 82
p0 2460 ± 1864
pull
Entries 83
Mean −191.5
Std Dev 0

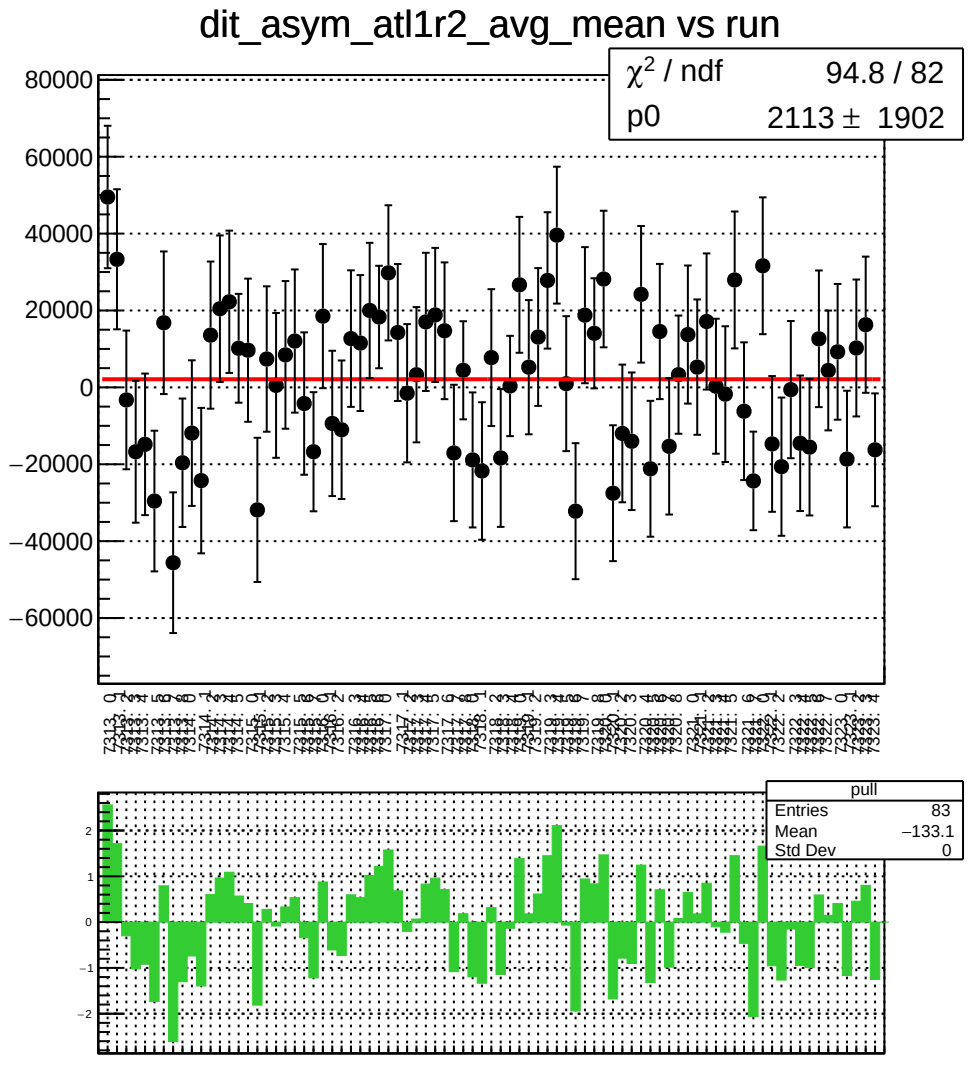

pull1D
Entries 83
Mean 0.007132
Std Dev 1.061

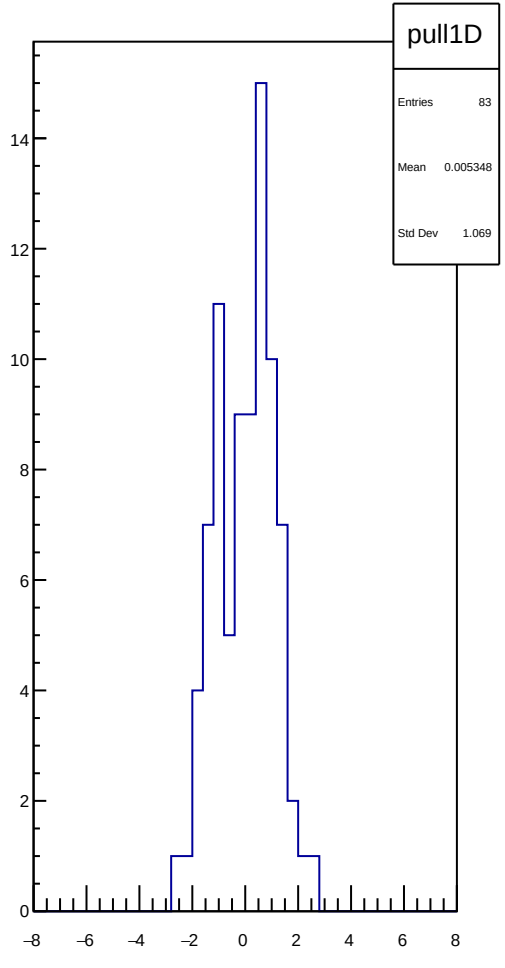

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 148.4 / 82
p0 1673 ± 1.318
1740
1720
1700
1680
1660
1640
1620

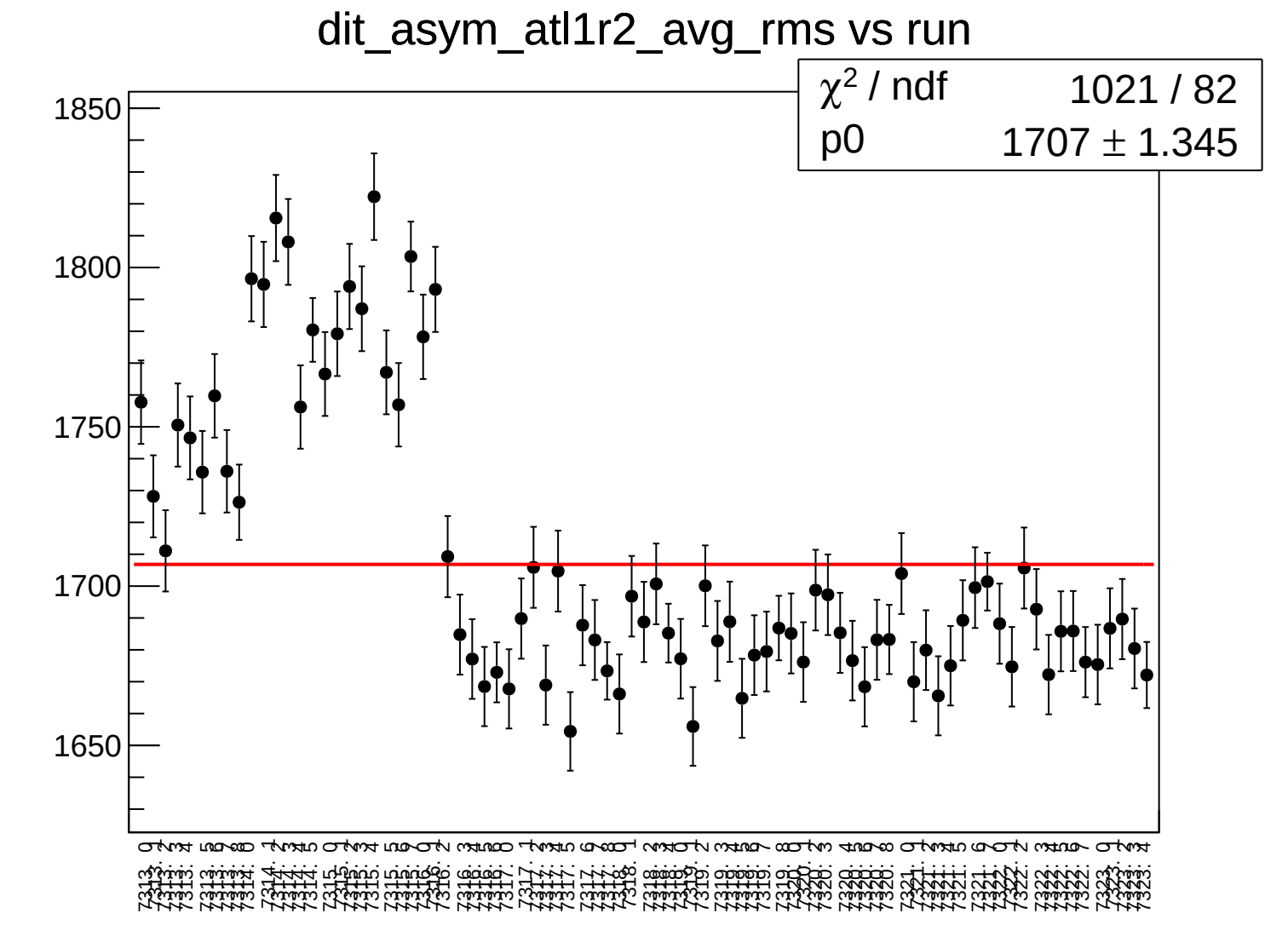

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.47 / 82
p0 9286 ± 7825
pull
Entries 83
Mean 1234
Std Dev 0

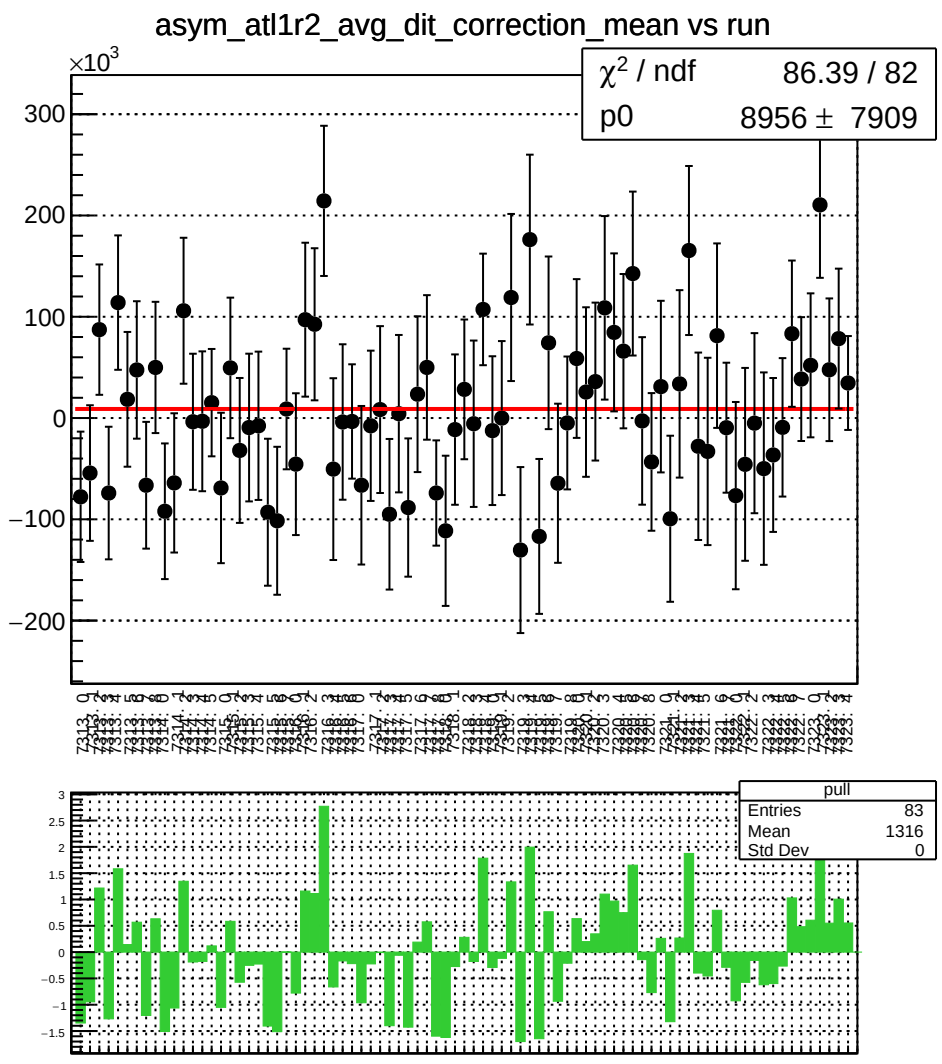

pull1D
Entries 83
Mean 0.004103
Std Dev 1.015

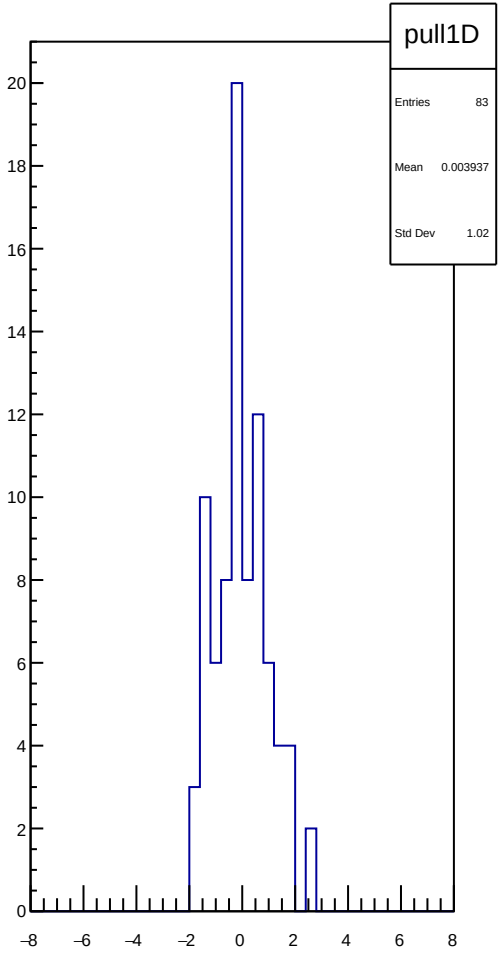

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.765e+04 / 82
p0 6986 ± 5.533
9000
8500
8000
7500
7000
6500
6000
5500
5000

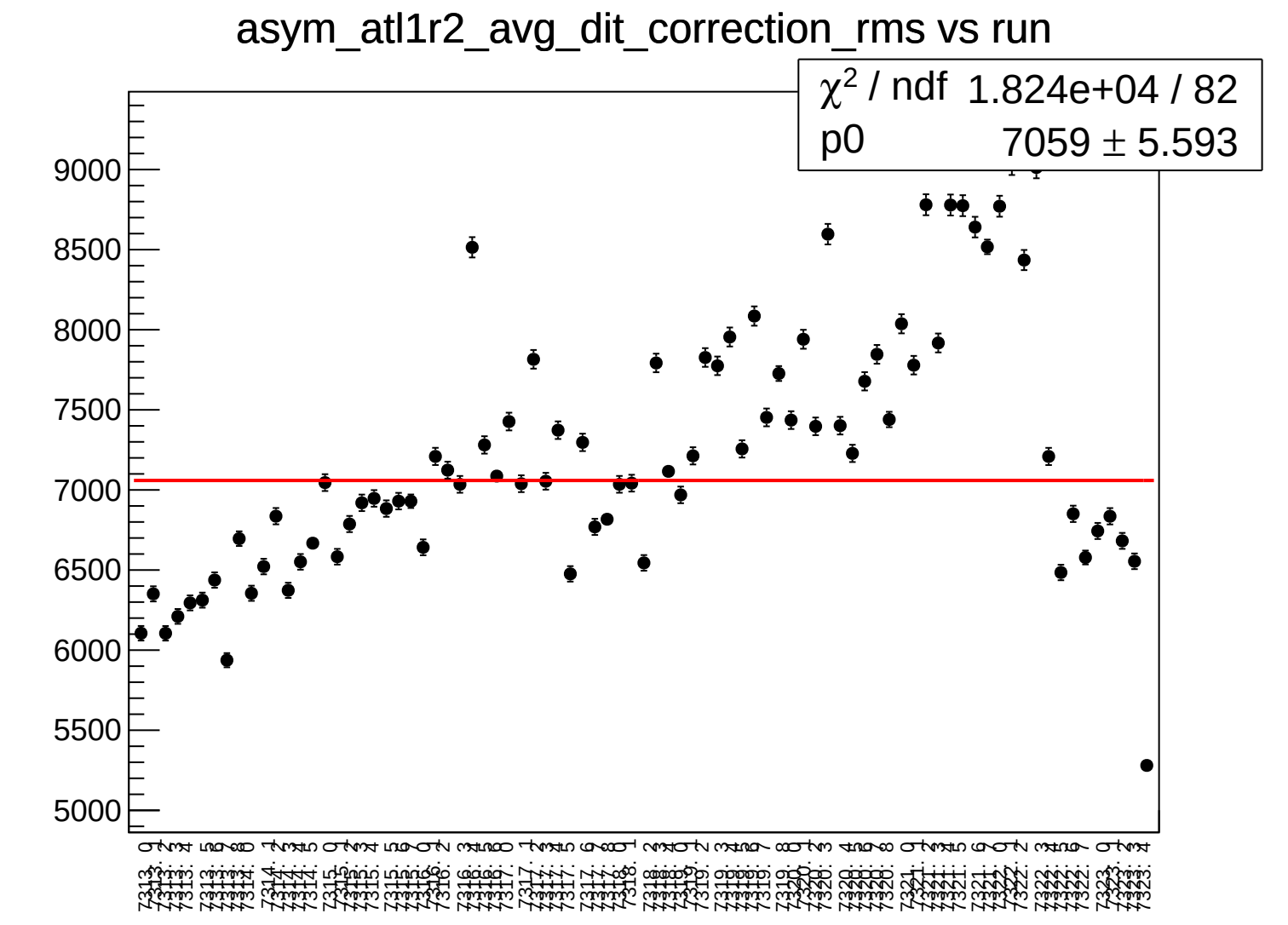

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 94.8 / 82
p0 2113 ± 1902
pull
Entries 83
Mean −133.1
Std Dev 0

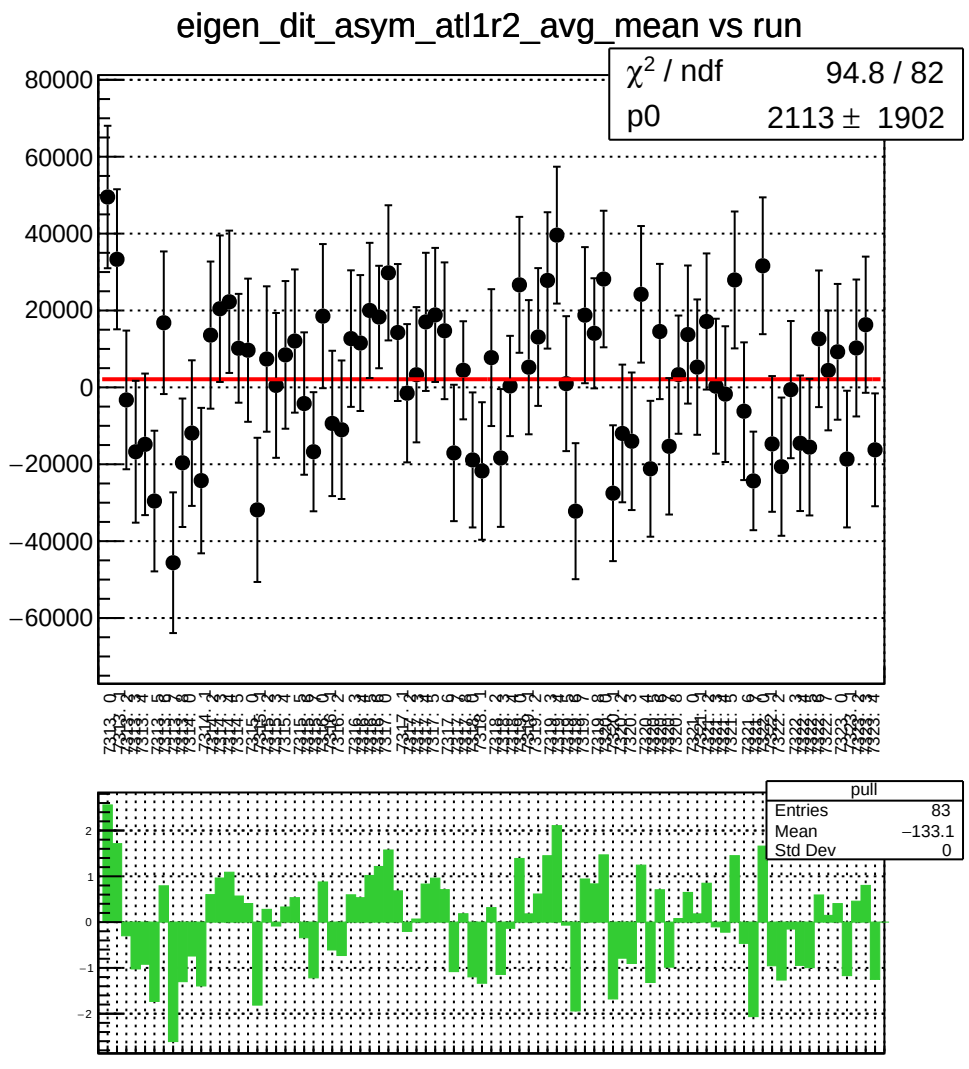

pull1D
Entries 83
Mean 0.005348
Std Dev 1.069

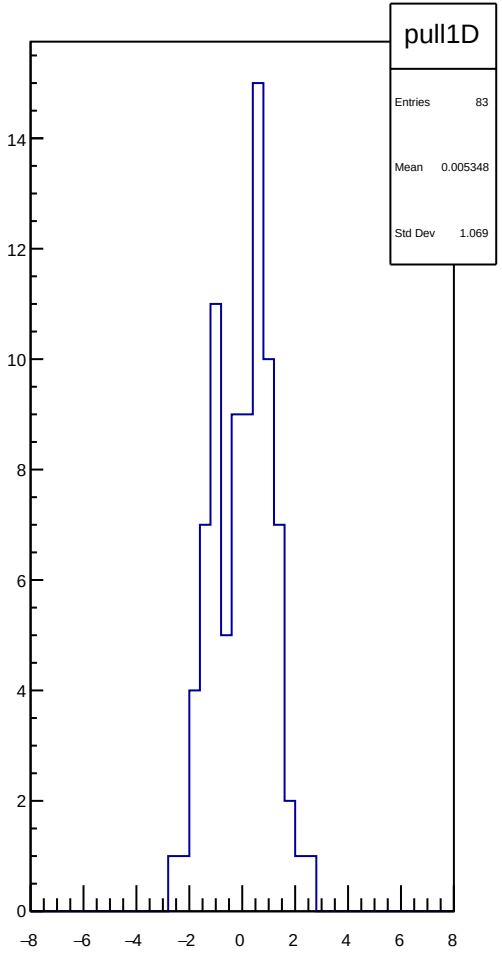

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1021 / 82
p0 1707 ± 1.345
1850
1800
1750
1700
1650

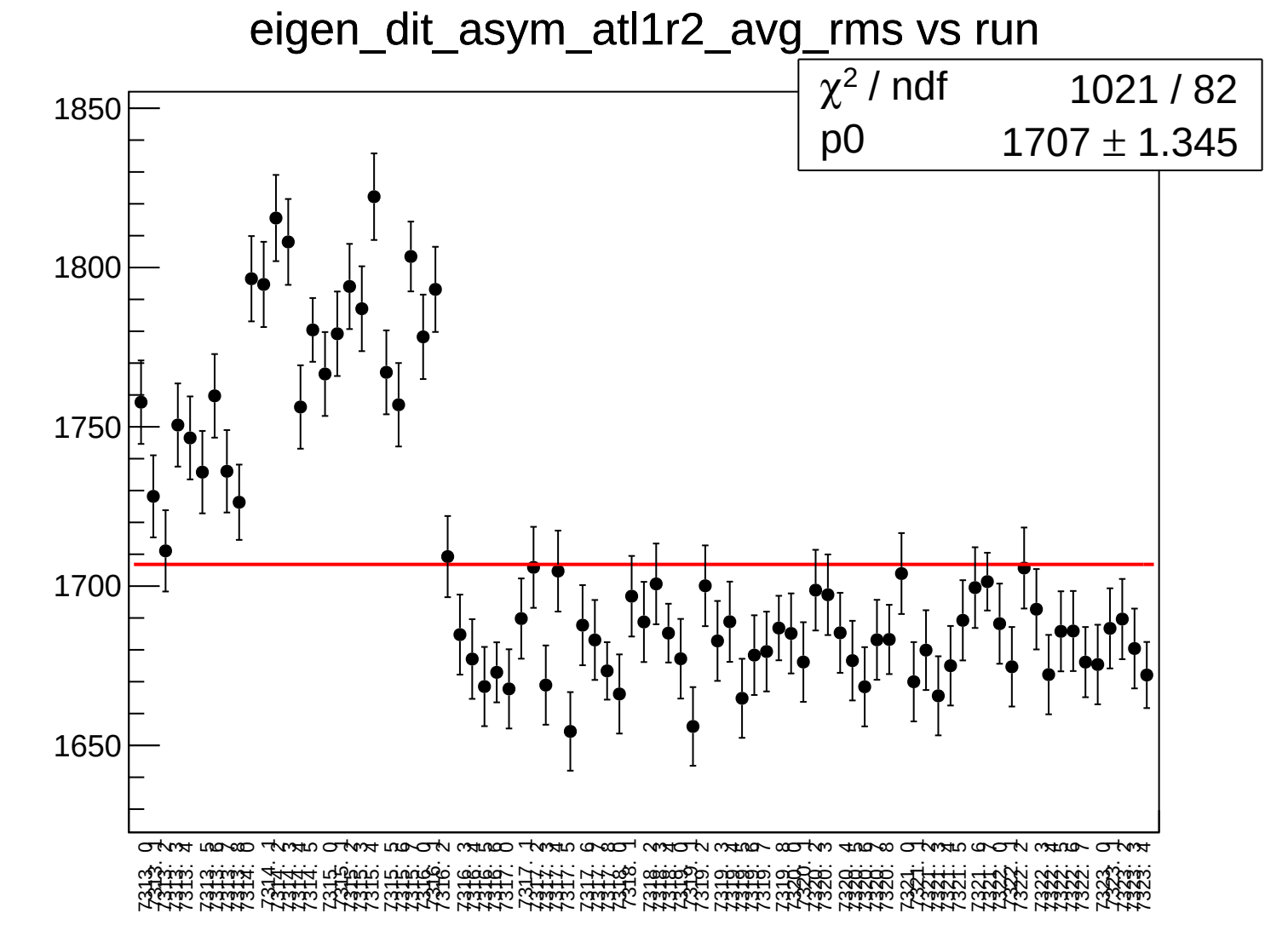

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.39 / 82
p0 8956 ± 7909
pull
Entries 83
Mean 1316
Std Dev 0

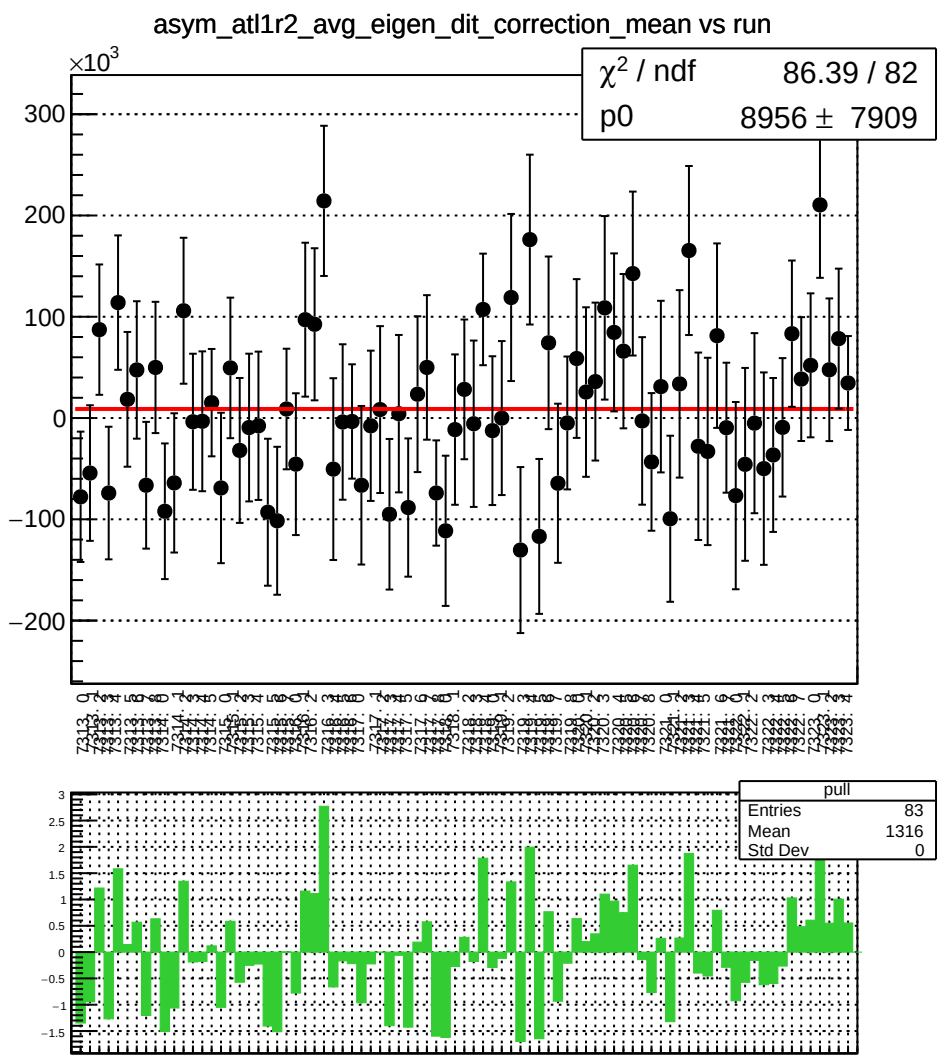

pull1D
Entries 83
Mean 0.003937
Std Dev 1.02

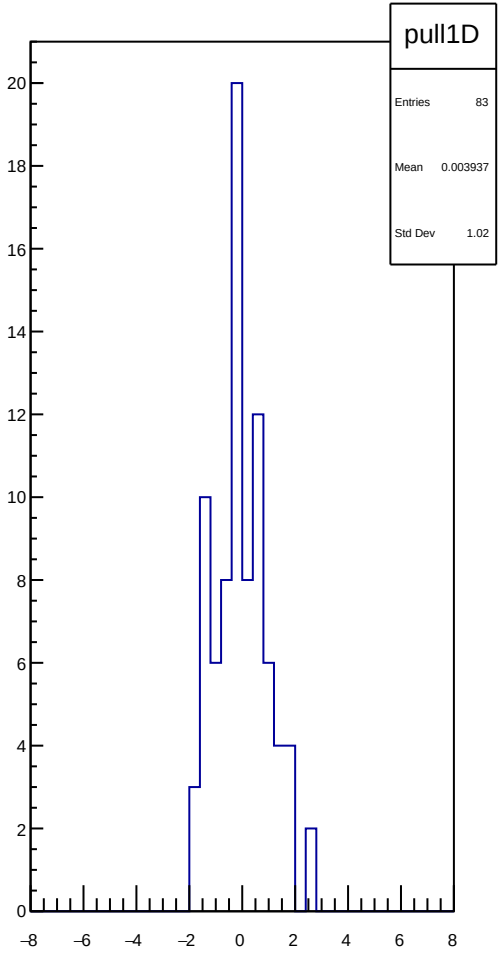

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.824e+04 / 82
p0 7059 ± 5.593
9000
8500
8000
7500
7000
6500
6000
5500
5000

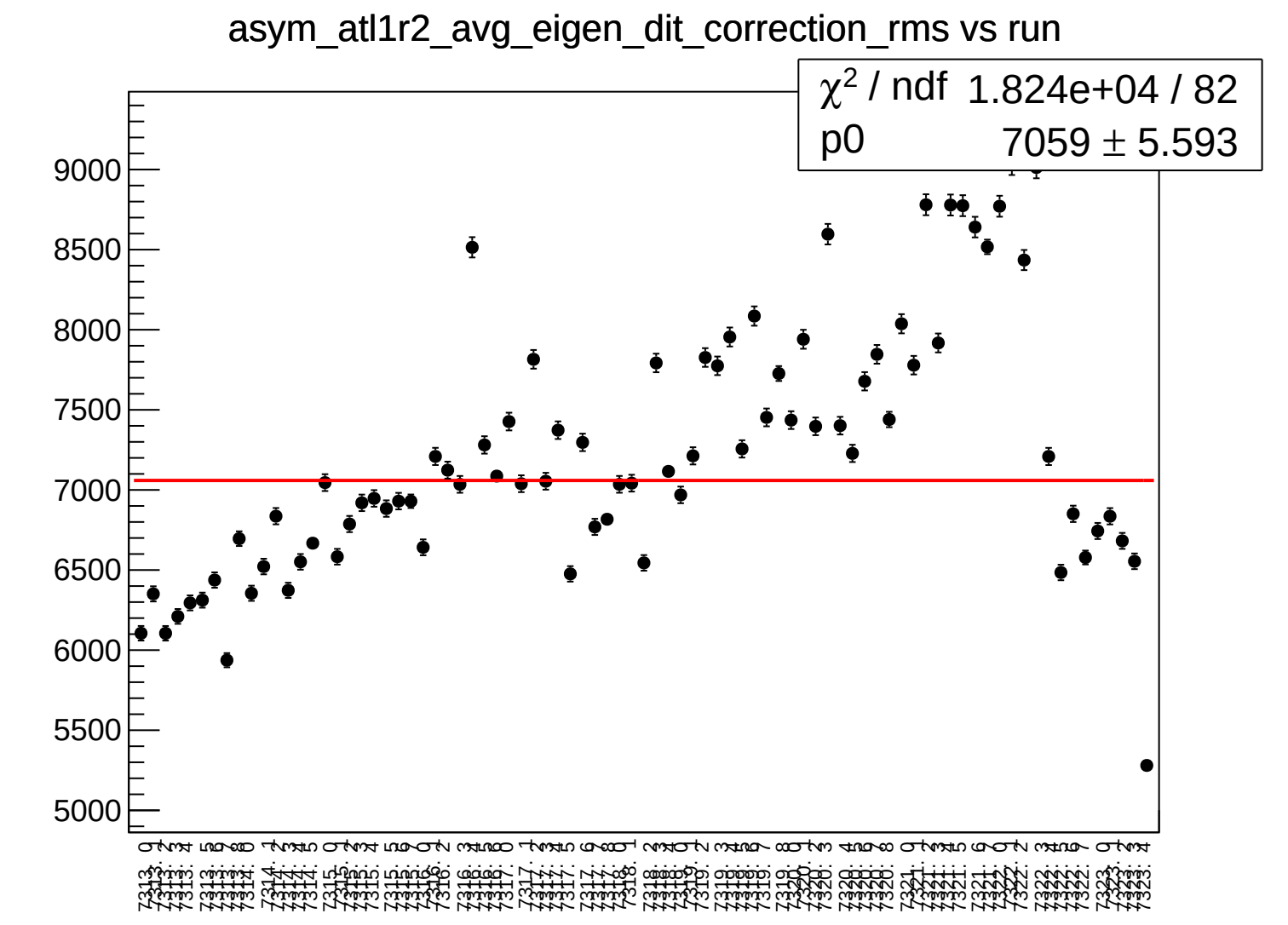

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 94.8 / 82
p0 2113 ± 1902
pull
Entries 83
Mean −133.1
Std Dev 0

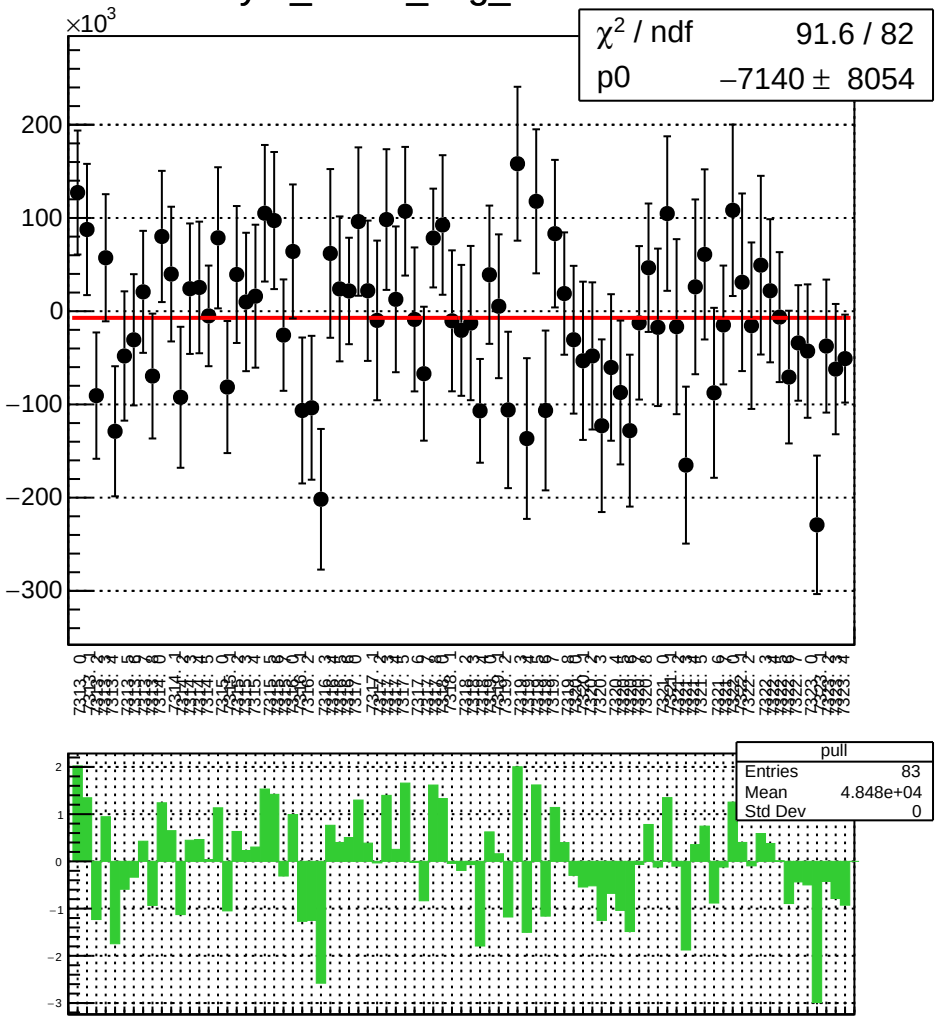

pull1D
Entries 83
Mean 0.005348
Std Dev 1.069

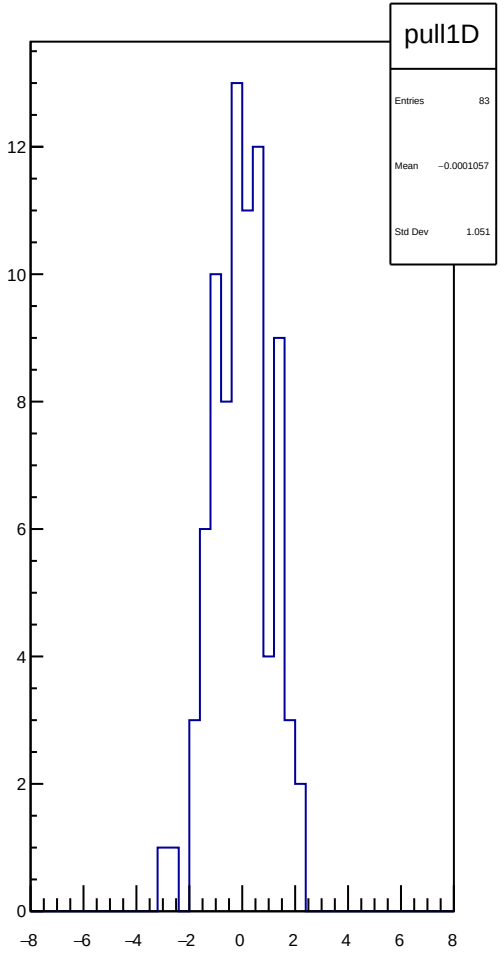

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1021 / 82
p0 1707 ± 1.345
1850
1800
1750
1700
1650

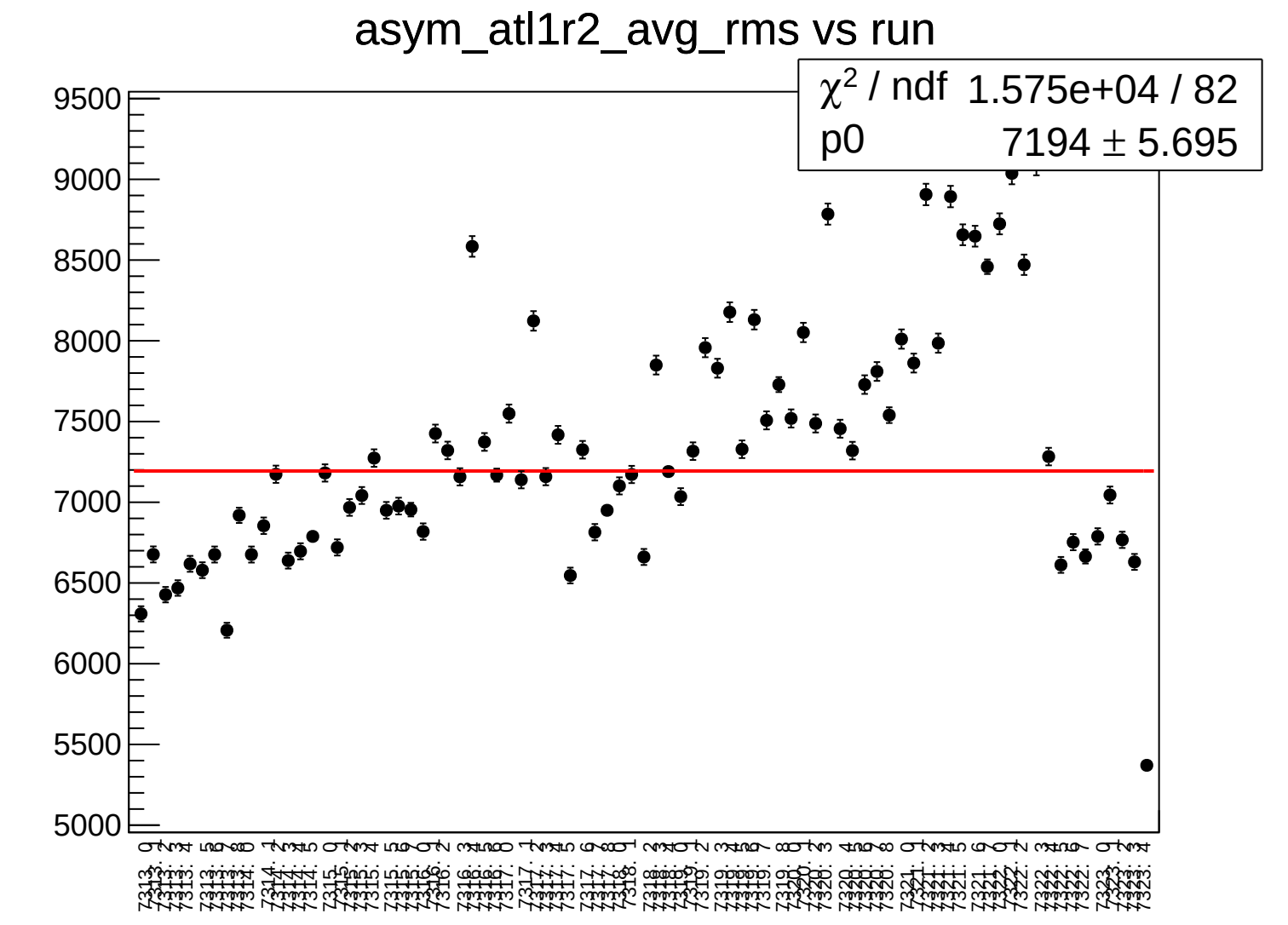

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.39 / 82
p0 8956 ± 7909
pull
Entries 83
Mean 1316
Std Dev 0

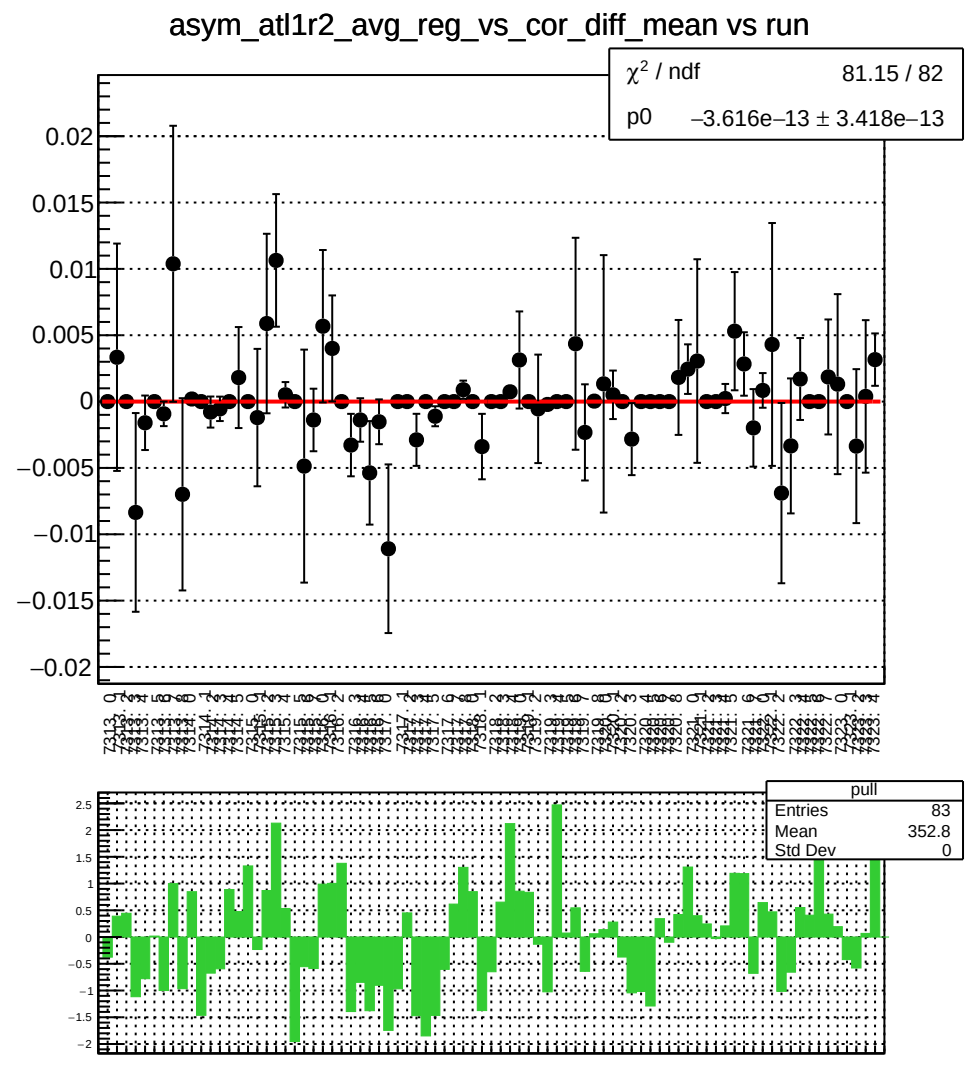

pull1D
Entries 83
Mean 0.003937
Std Dev 1.02

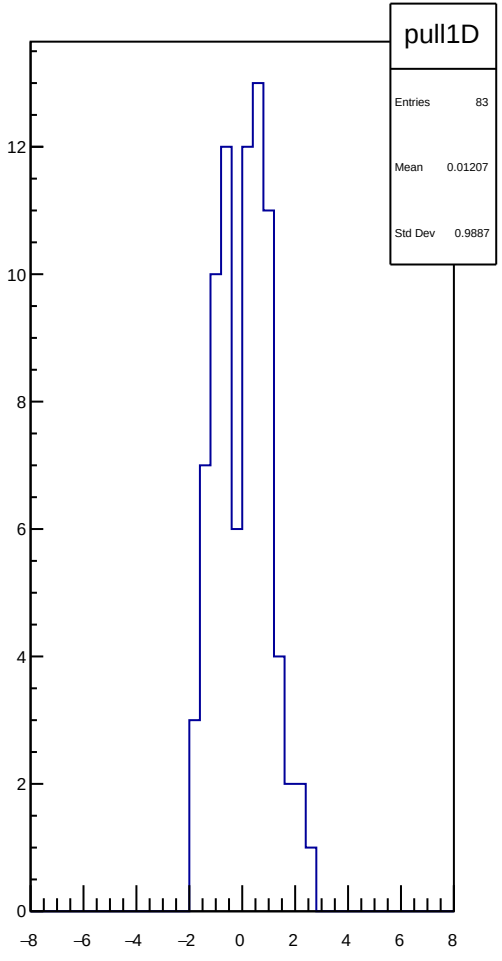

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.824e+04 / 82
p0 7059 ± 5.593
9000
8500
8000
7500
7000
6500
6000
5500
5000

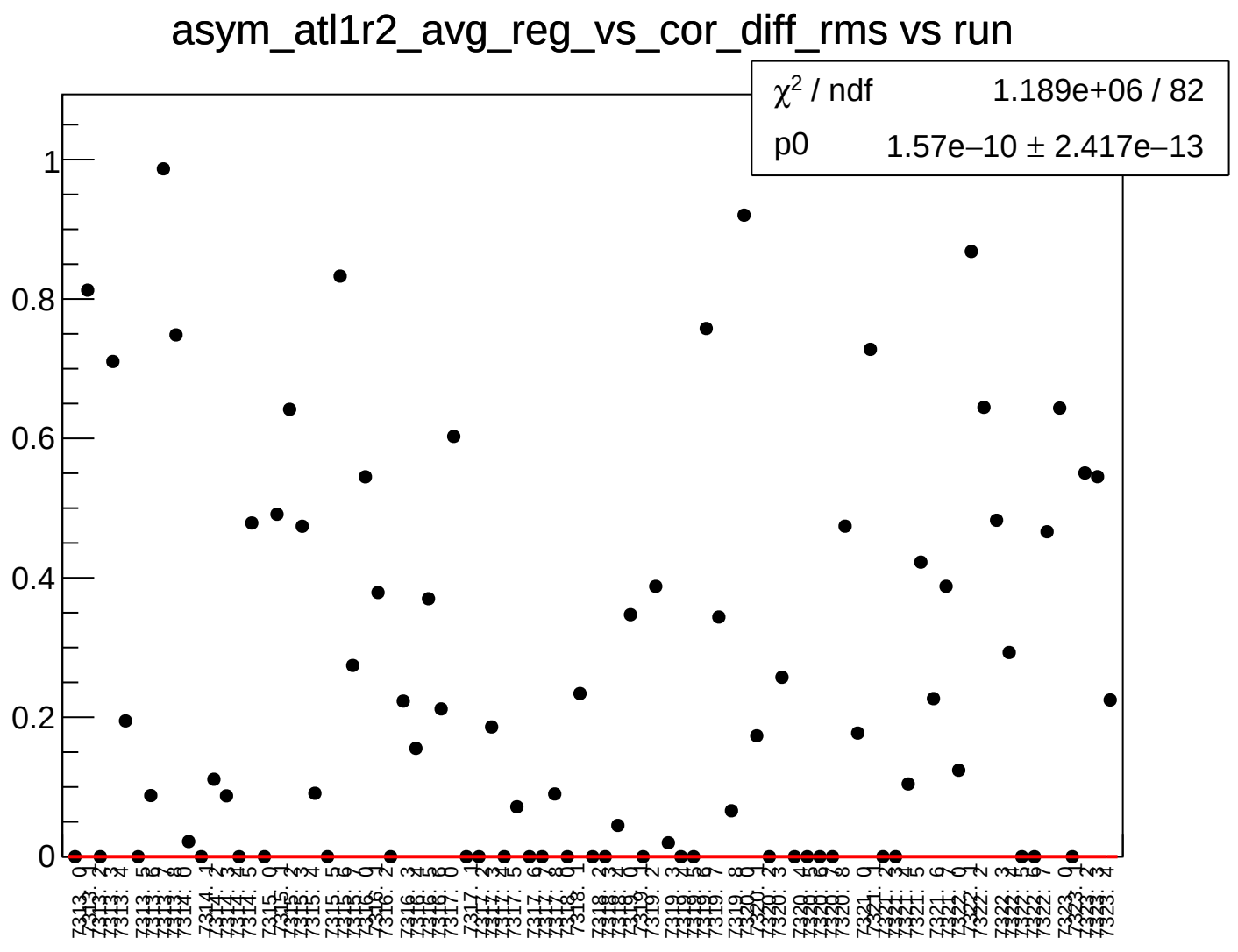

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 91.6 / 82
p0 −7140 ± 8054
200
100
0
−100
−200
−300
pull
Entries 83
Mean 4.848e+04
Std Dev 0
2
1
0
−1
−2
−3

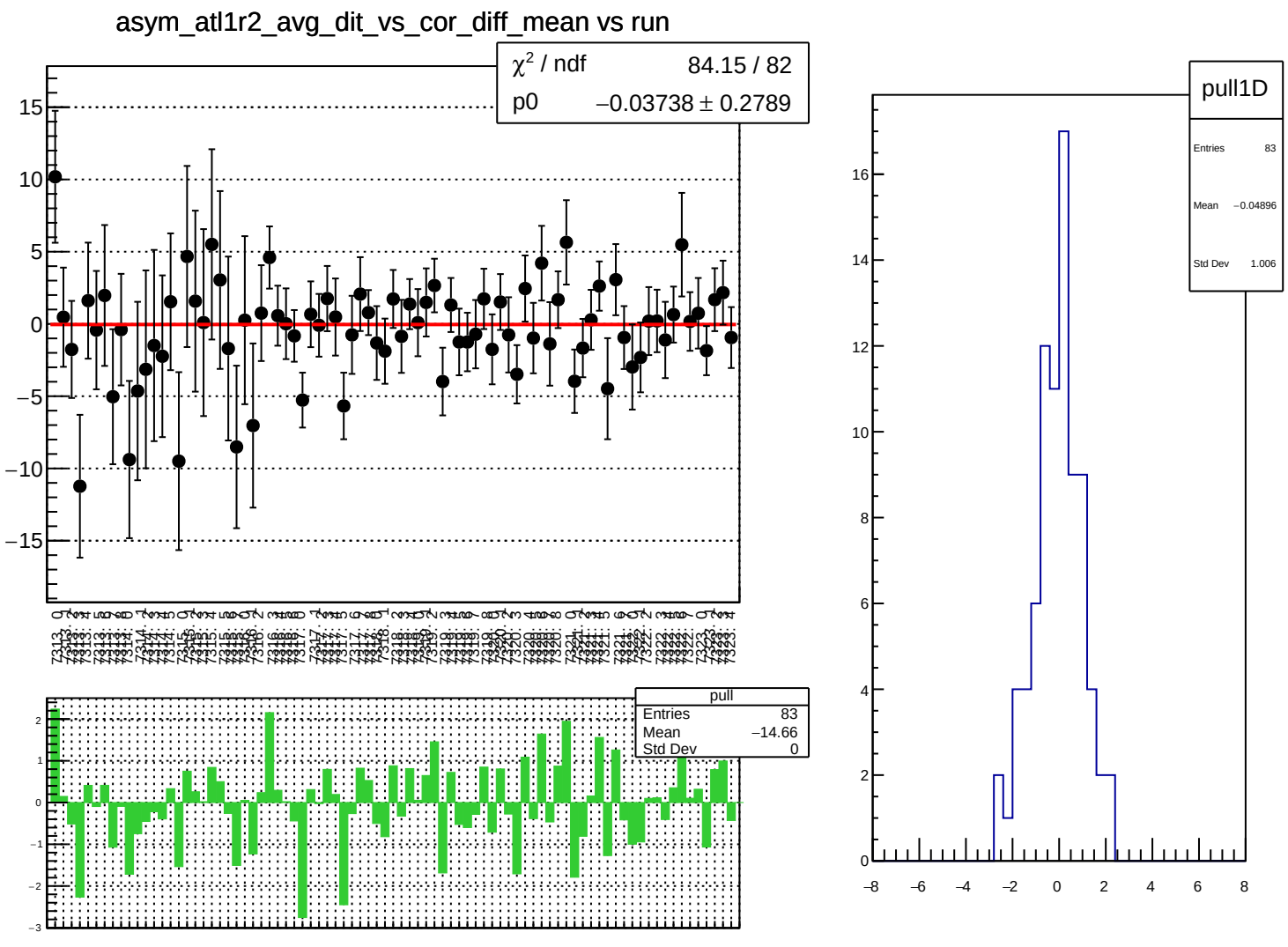

pull1D
Entries 83
Mean −0.0001057
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

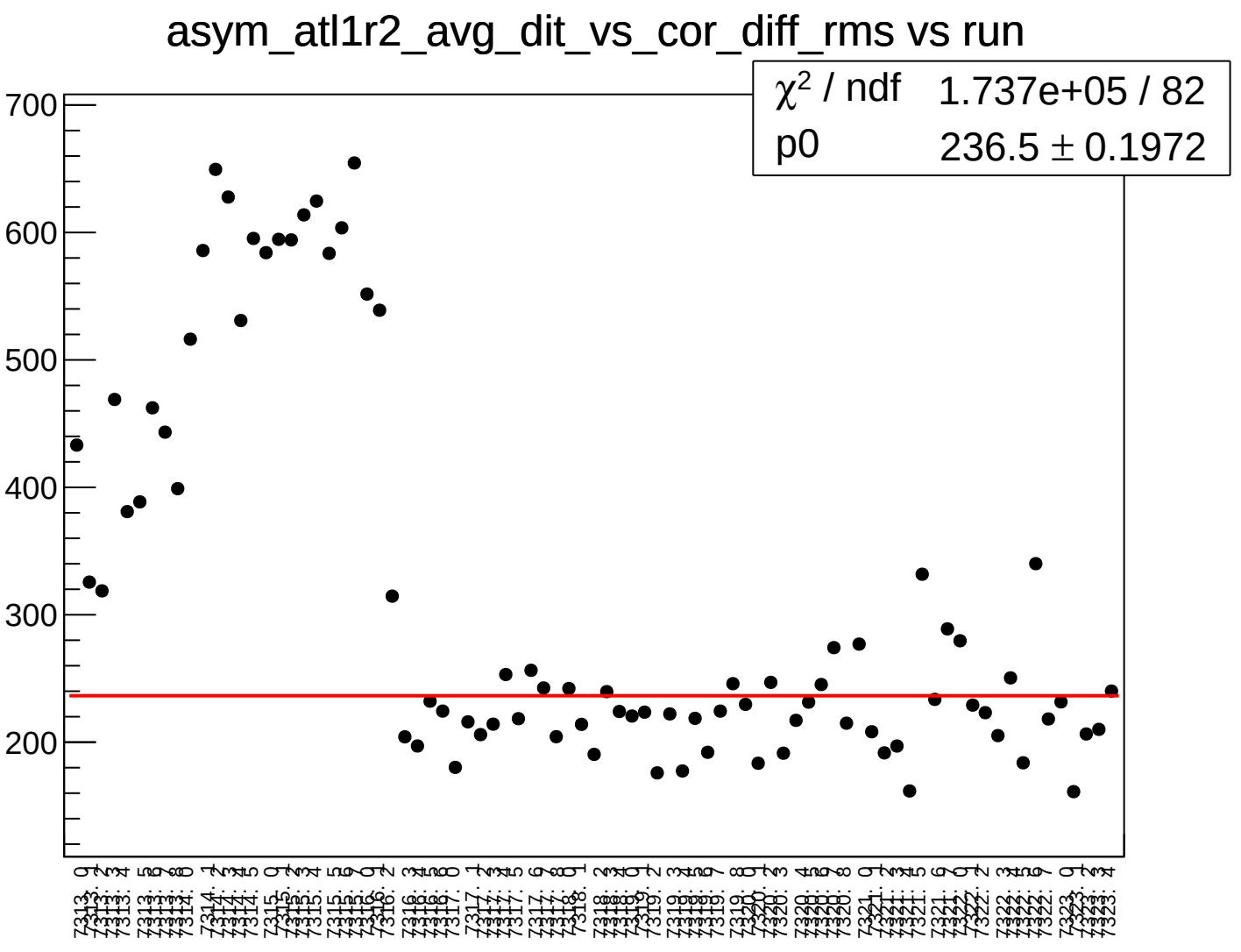

asym_atl1r2_avg_rms vs run
χ² / ndf 1.575e+04 / 82
p0 7194 ± 5.695
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

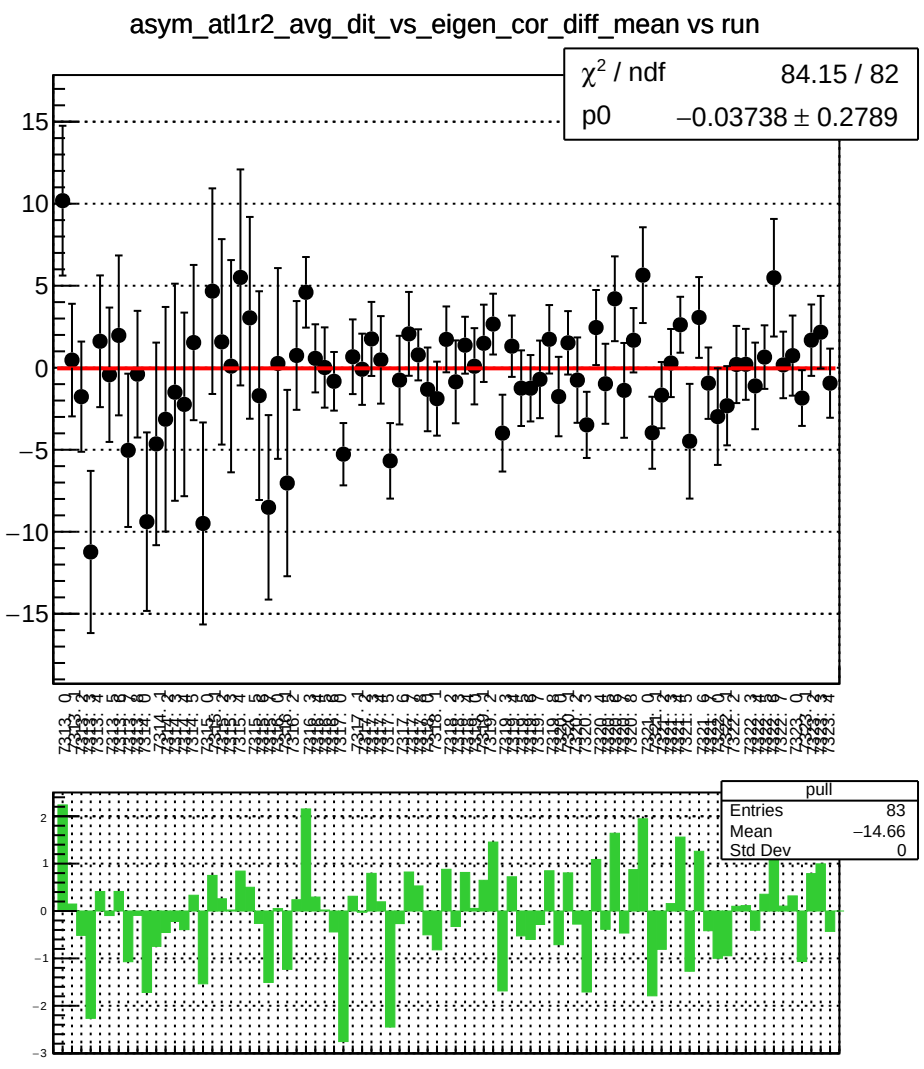

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.15 / 82
p0 −3.616e−13 ± 3.418e−13
pull
Entries 83
Mean 352.8
Std Dev 0

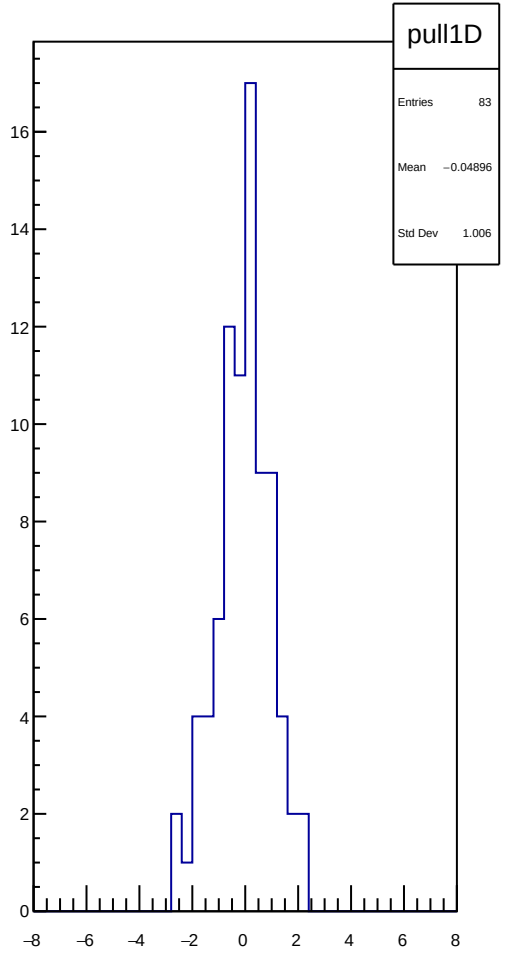

pull1D
Entries 83
Mean 0.01207
Std Dev 0.9887

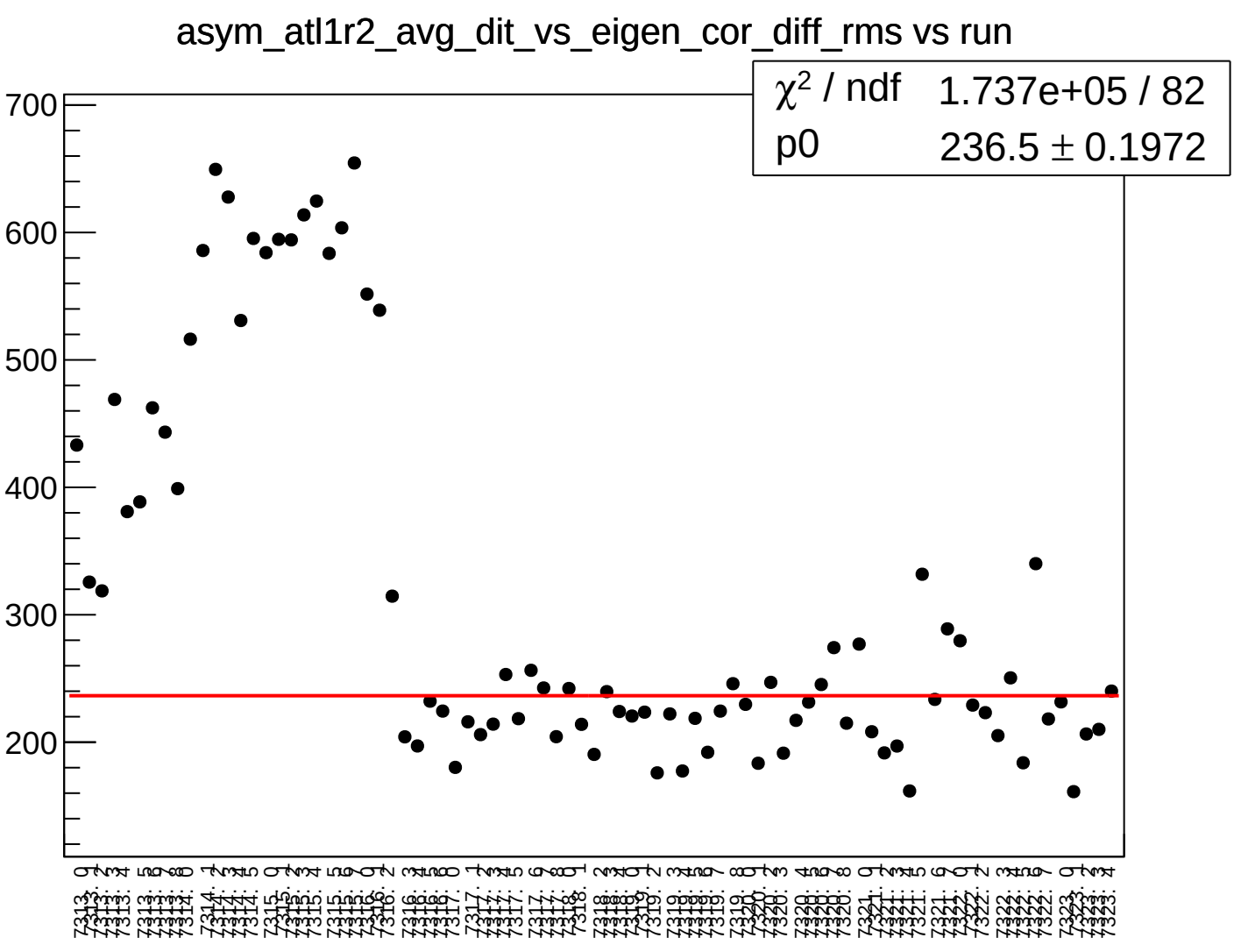

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.189e+06 / 82
p0 1.57e−10 ± 2.417e−13
1
0.8
0.6
0.4
0.2
0

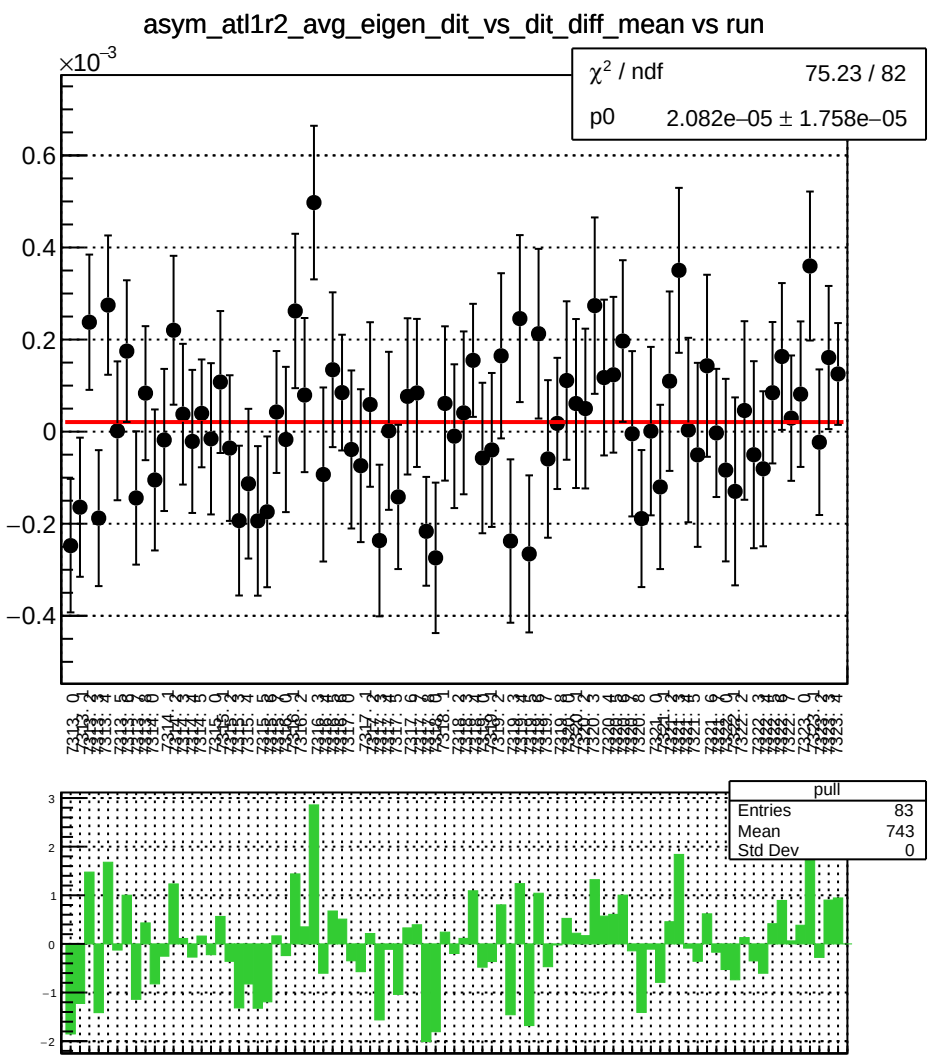

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 82
p0 −0.03738 ± 0.2789
pull
Entries 83
Mean −14.66
Std Dev 0
pull1D
Entries 83
Mean −0.04896
Std Dev 1.006

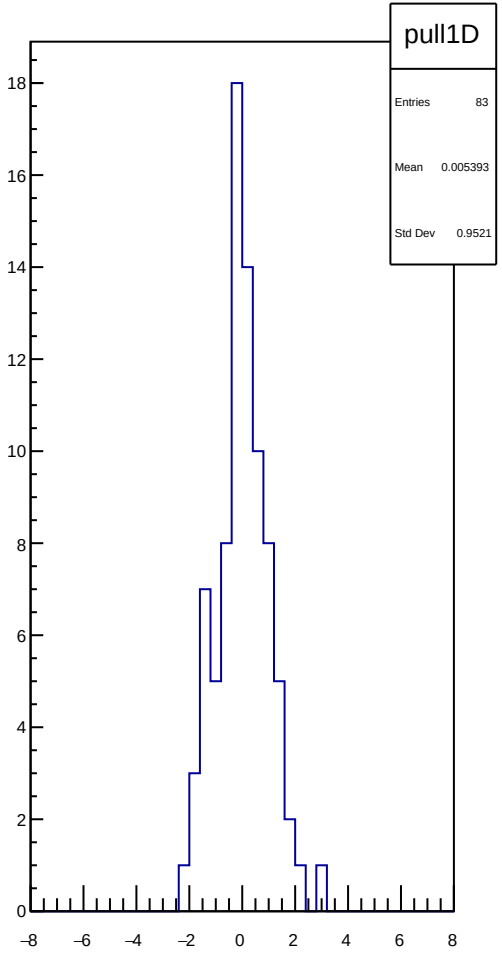

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.737e+05 / 82
p0 236.5 ± 0.1972
700
600
500
400
300
200

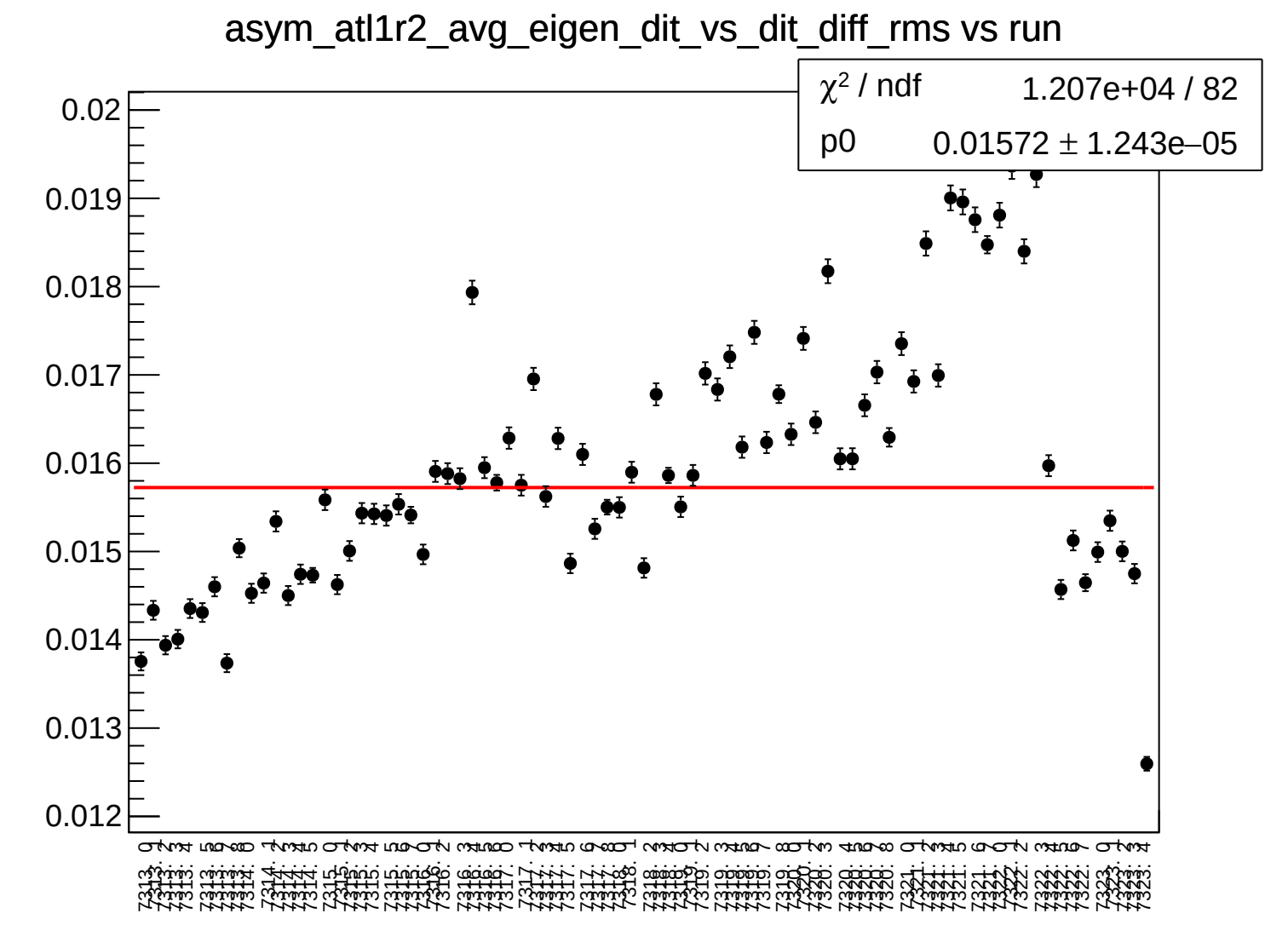

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 82
p0 −0.03738 ± 0.2789
pull
Entries 83
Mean −14.66
Std Dev 0

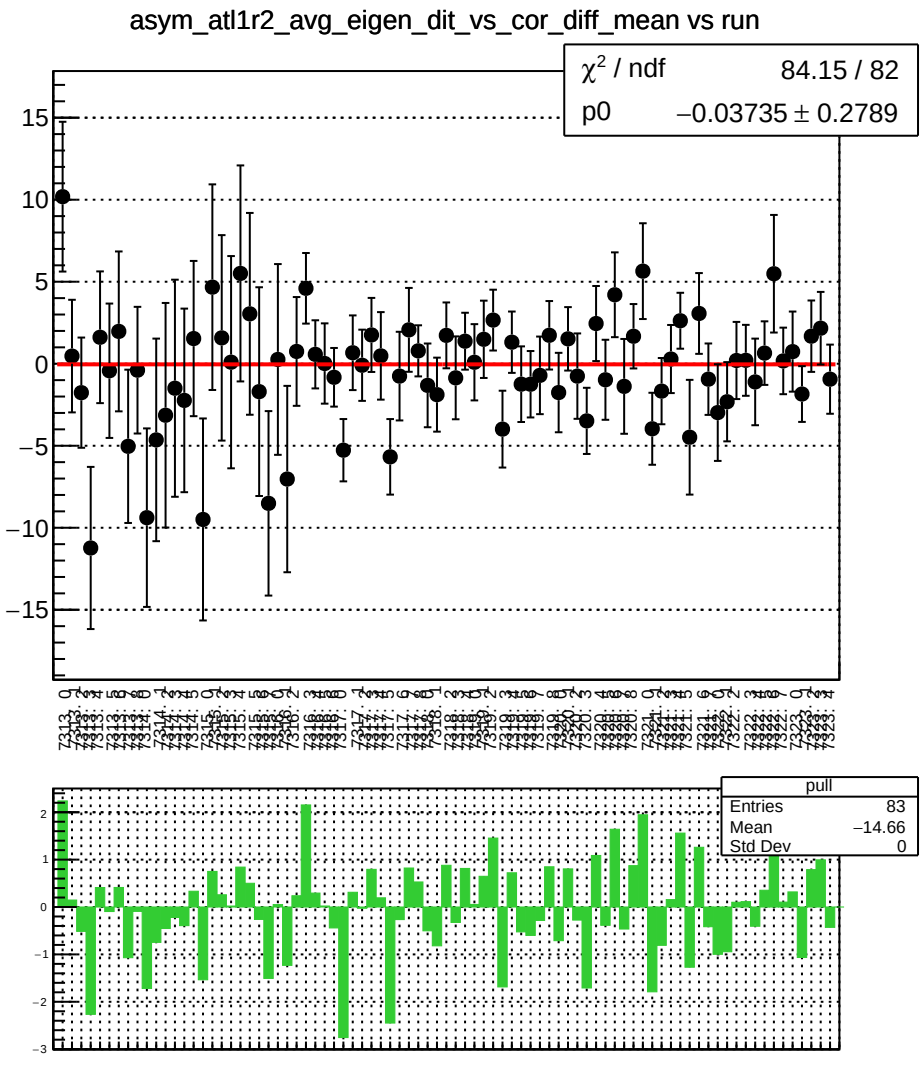

pull1D
Entries 83
Mean −0.04896
Std Dev 1.006

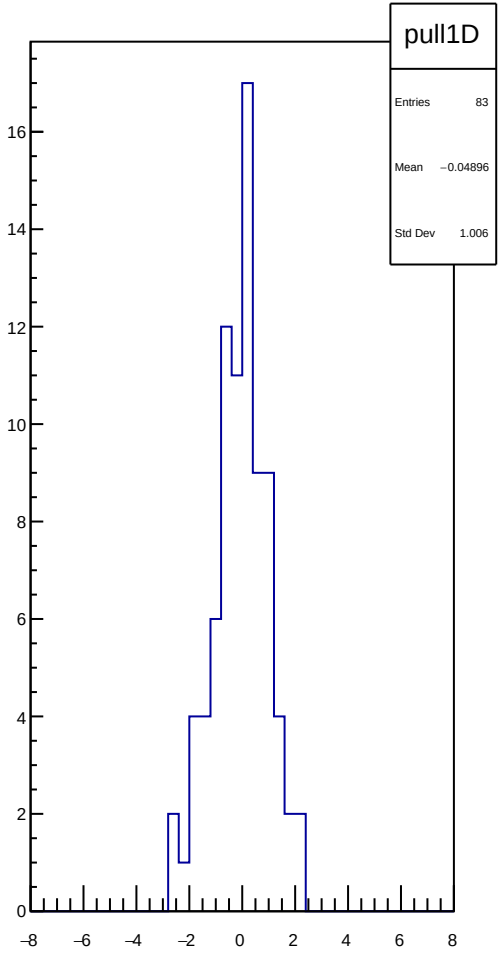

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.737e+05 / 82
p0 236.5 ± 0.1972
700
600
500
400
300
200

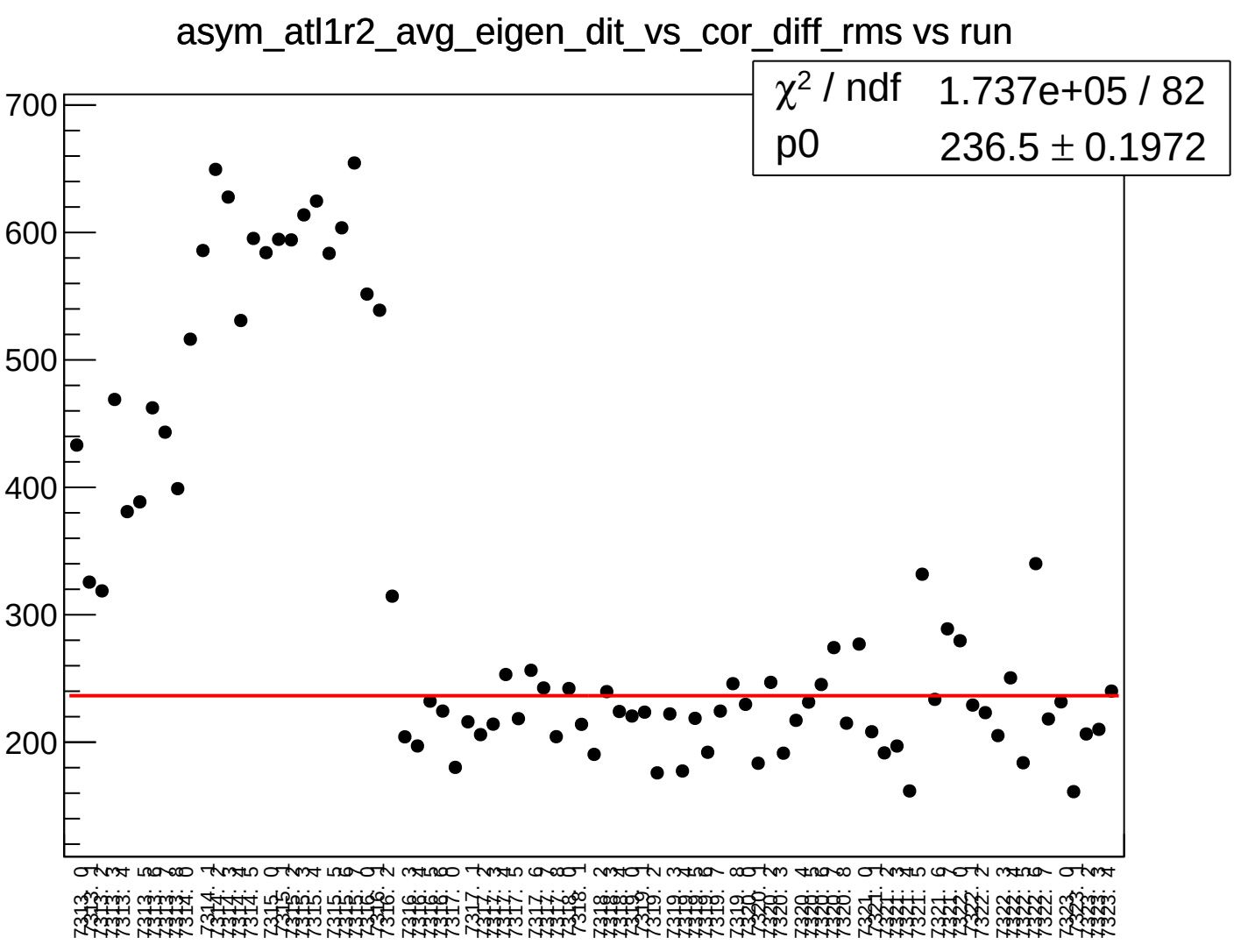

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.23 / 82
p0 2.082e−05 ± 1.758e−05
pull
Entries 83
Mean 743
Std Dev 0

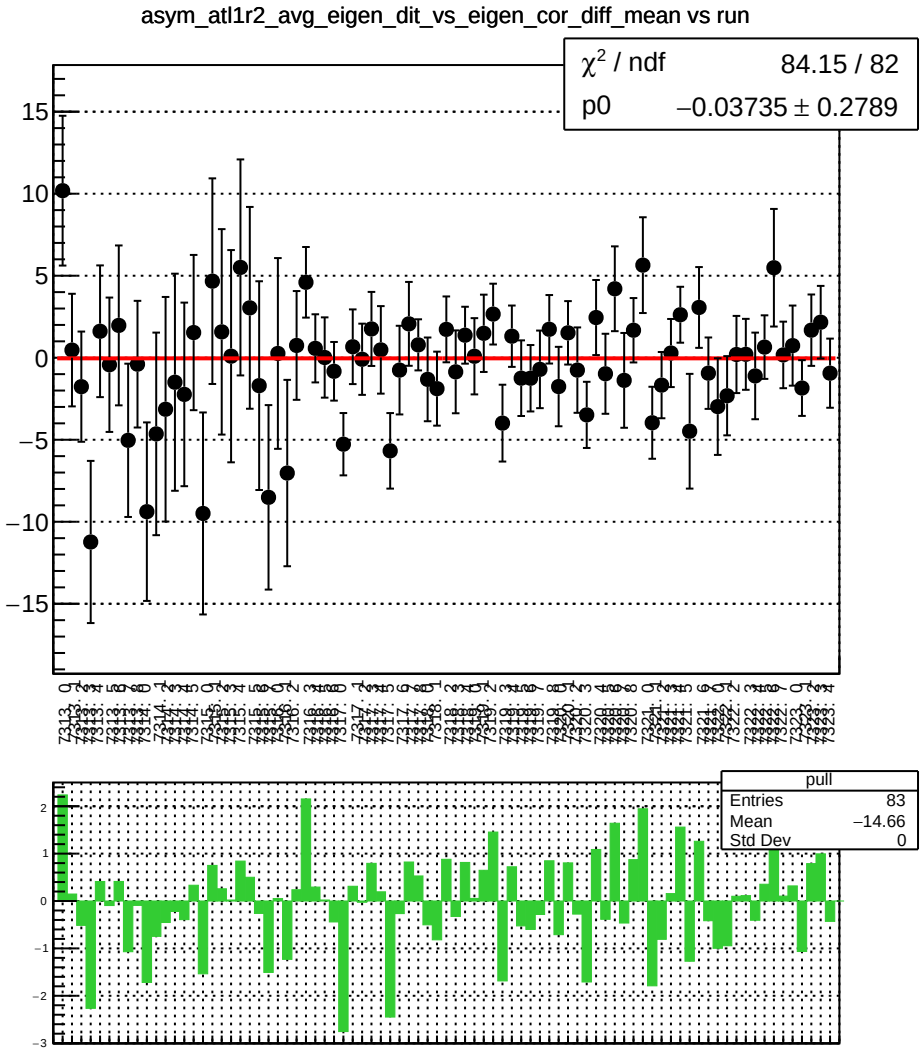

pull1D
Entries 83
Mean 0.005393
Std Dev 0.9521

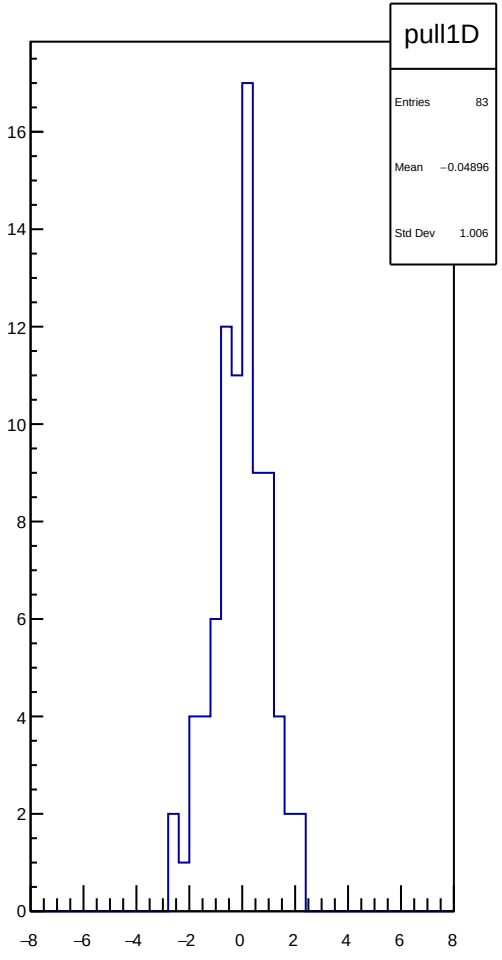

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.207e+04 / 82
p0 0.01572 ± 1.243e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

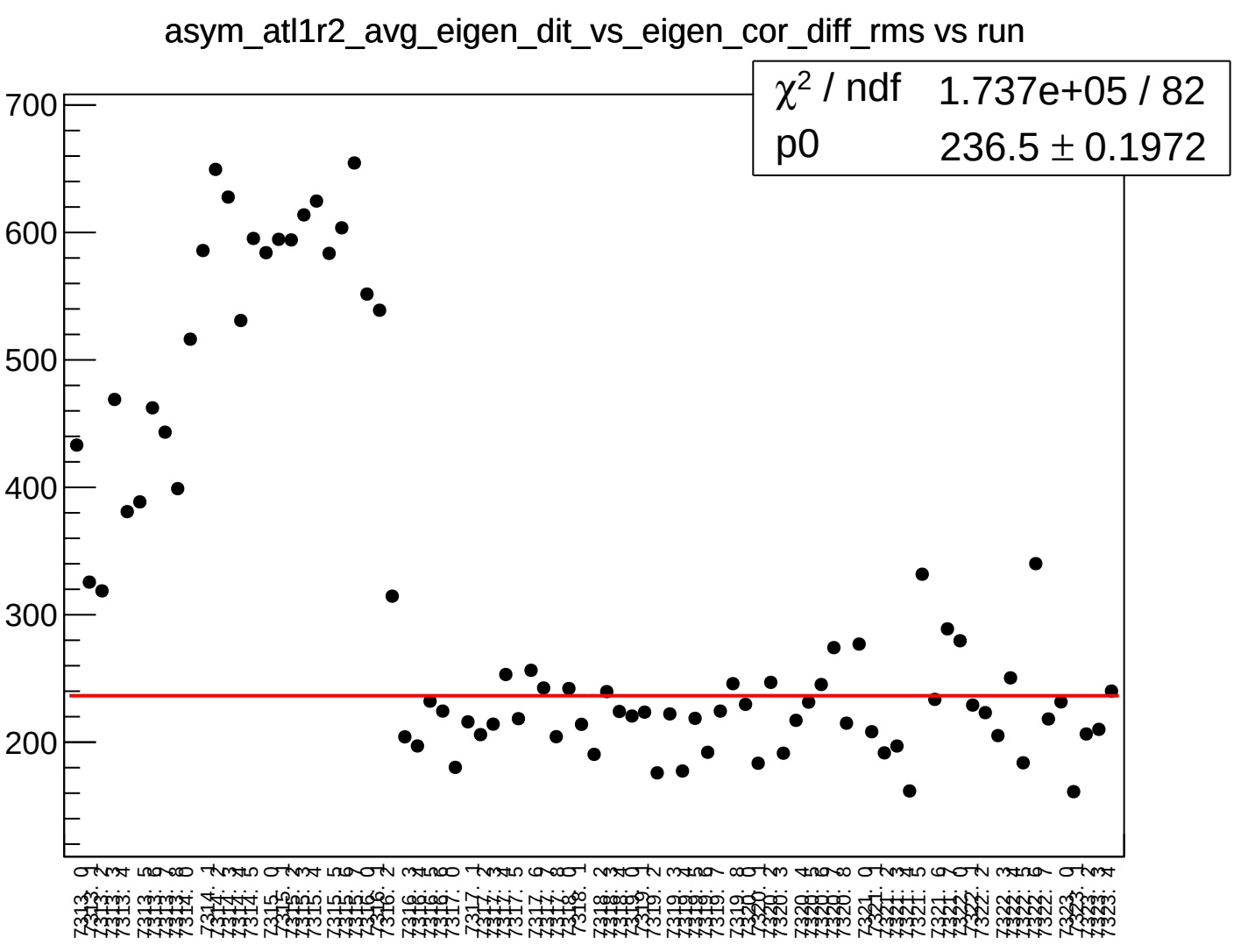

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 82
p0 −0.03735 ± 0.2789
pull
Entries 83
Mean −14.66
Std Dev 0

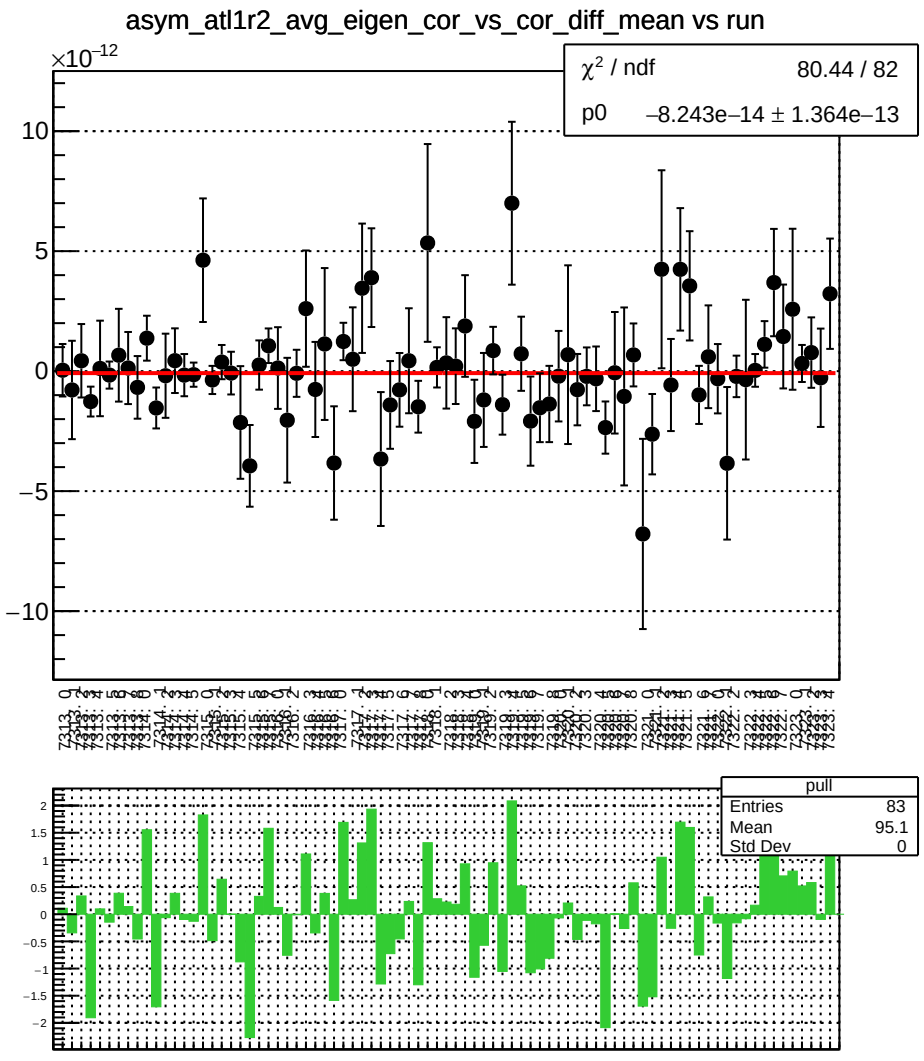

pull1D
Entries 83
Mean −0.04896
Std Dev 1.006

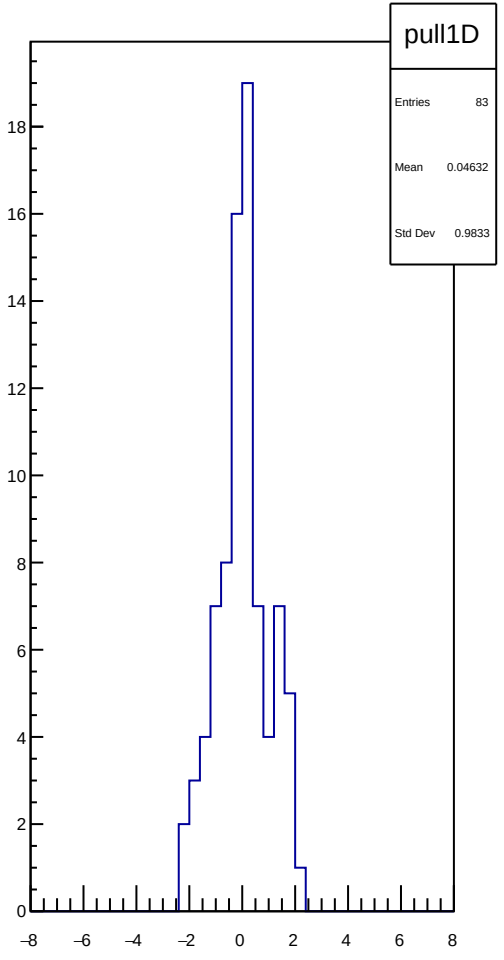

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.737e+05 / 82
p0 236.5 ± 0.1972
700
600
500
400
300
200

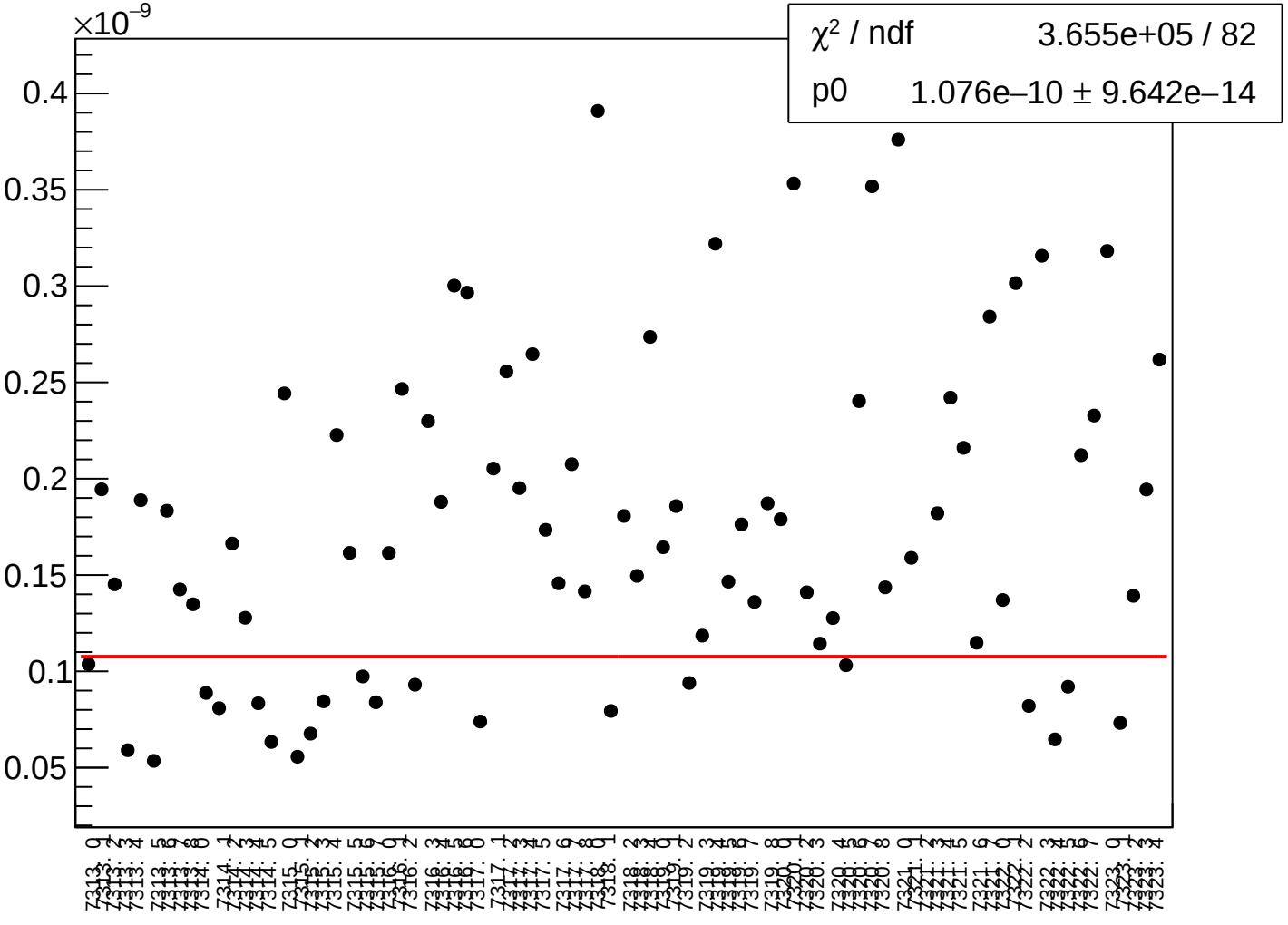

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 82
p0 −0.03735 ± 0.2789
pull
Entries 83
Mean −14.66
Std Dev 0

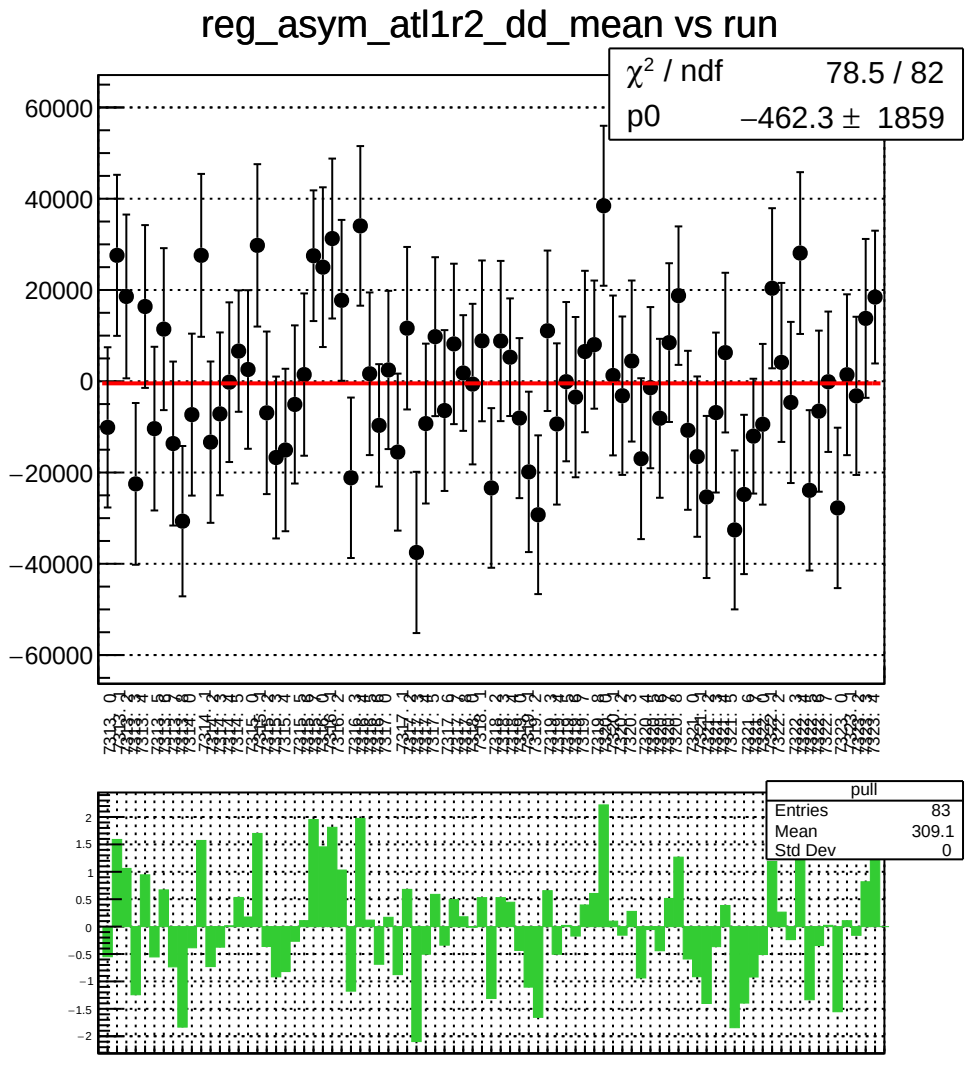

pull1D
Entries 83
Mean −0.04896
Std Dev 1.006

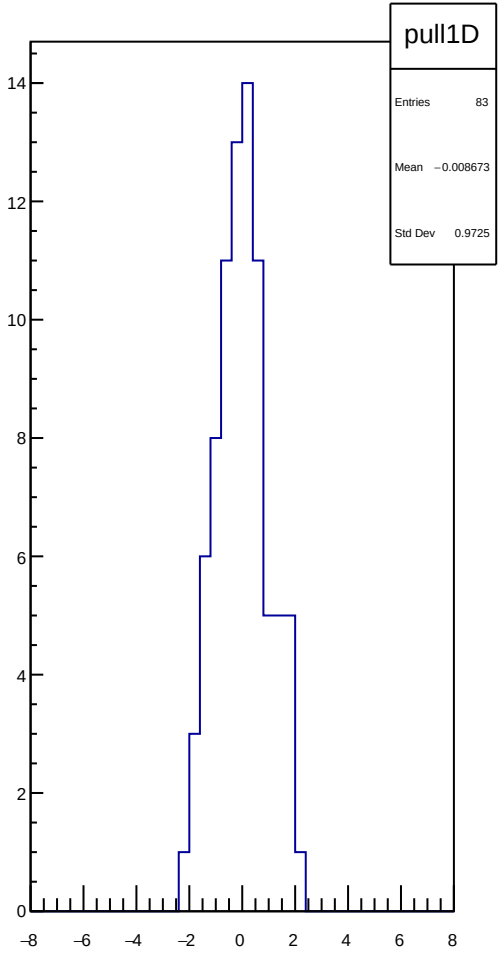

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.737e+05 / 82
p0 236.5 ± 0.1972
700
600
500
400
300
200

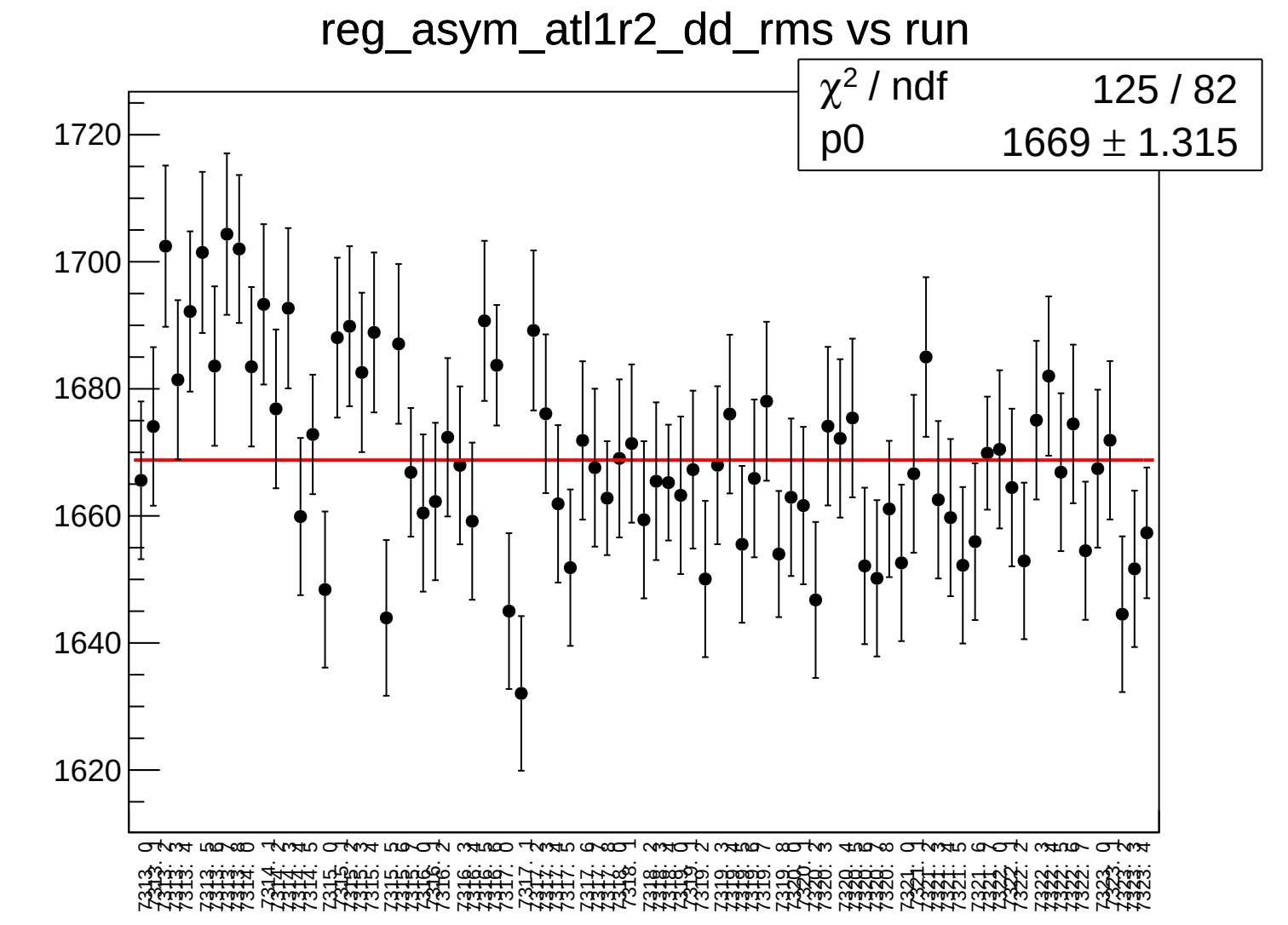

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.44 / 82
p0 −8.243e−14 ± 1.364e−13
pull
Entries 83
Mean 95.1
Std Dev 0

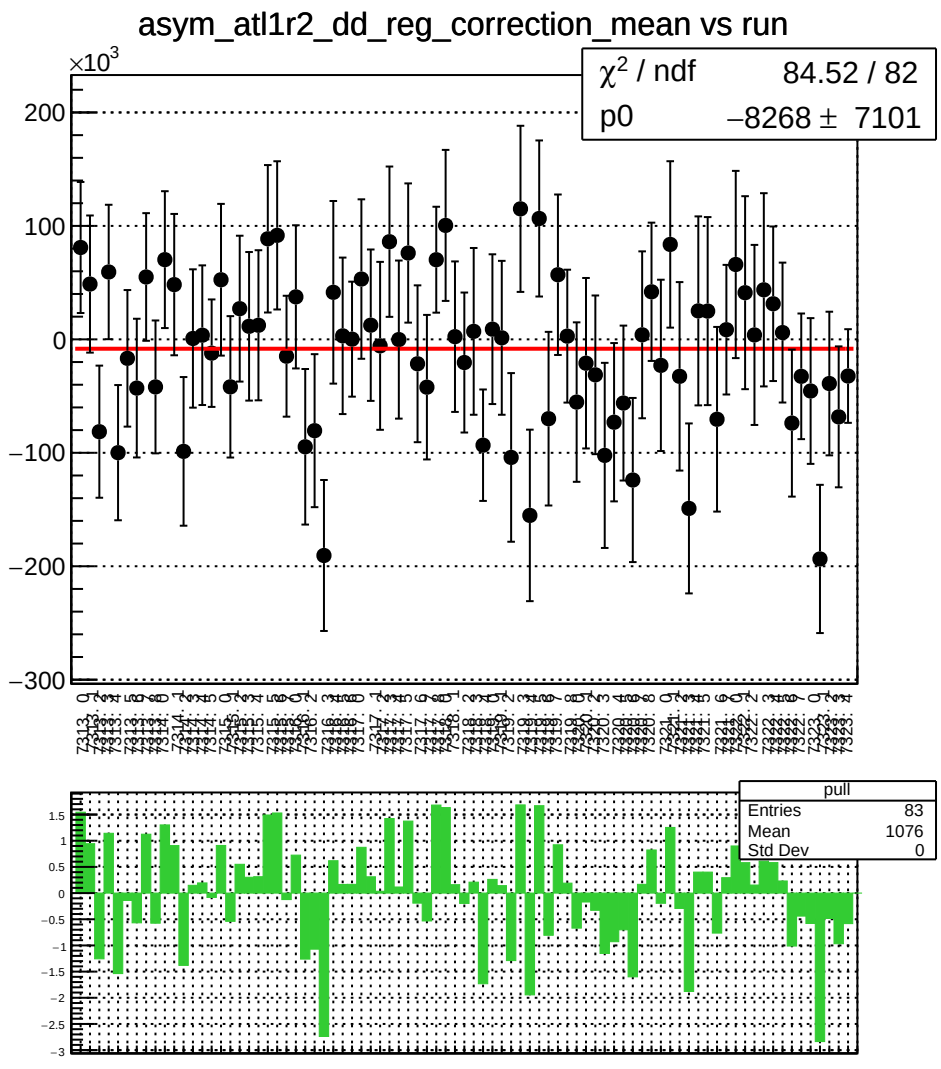

pull1D
Entries 83
Mean 0.04632
Std Dev 0.9833

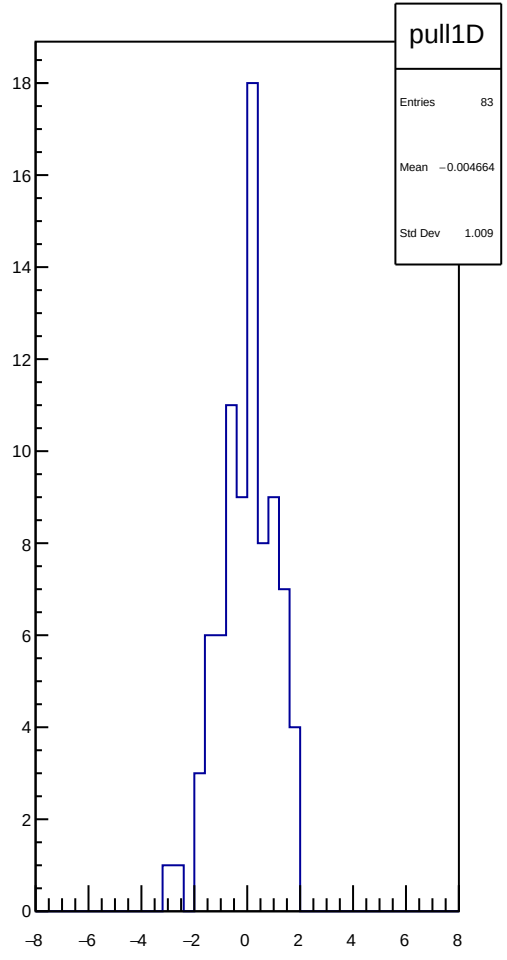

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.655e+05 / 82
p0 1.076e−10 ± 9.642e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

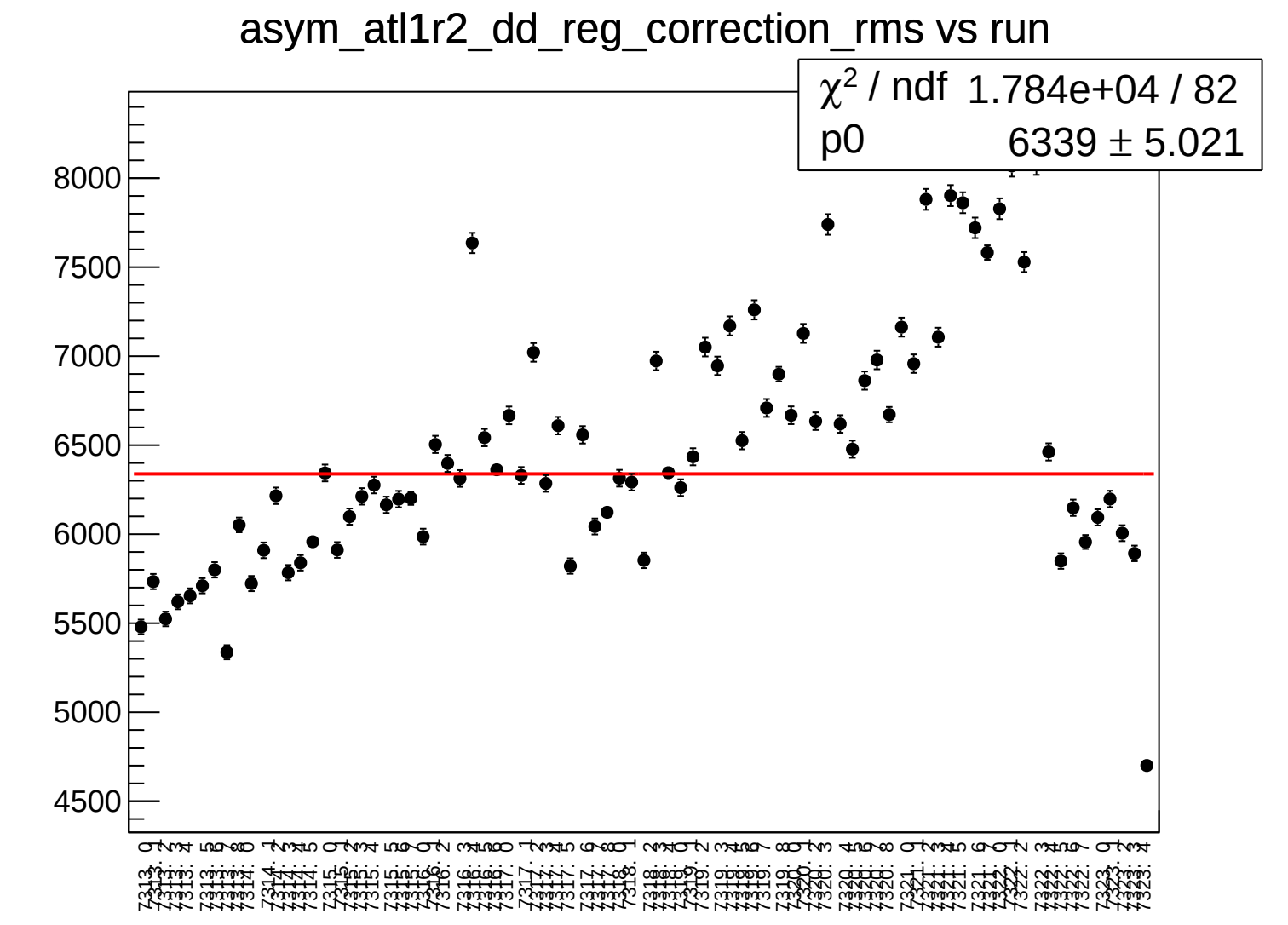

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 78.5 / 82
p0 −462.3 ± 1859
pull
Entries 83
Mean 309.1
Std Dev 0

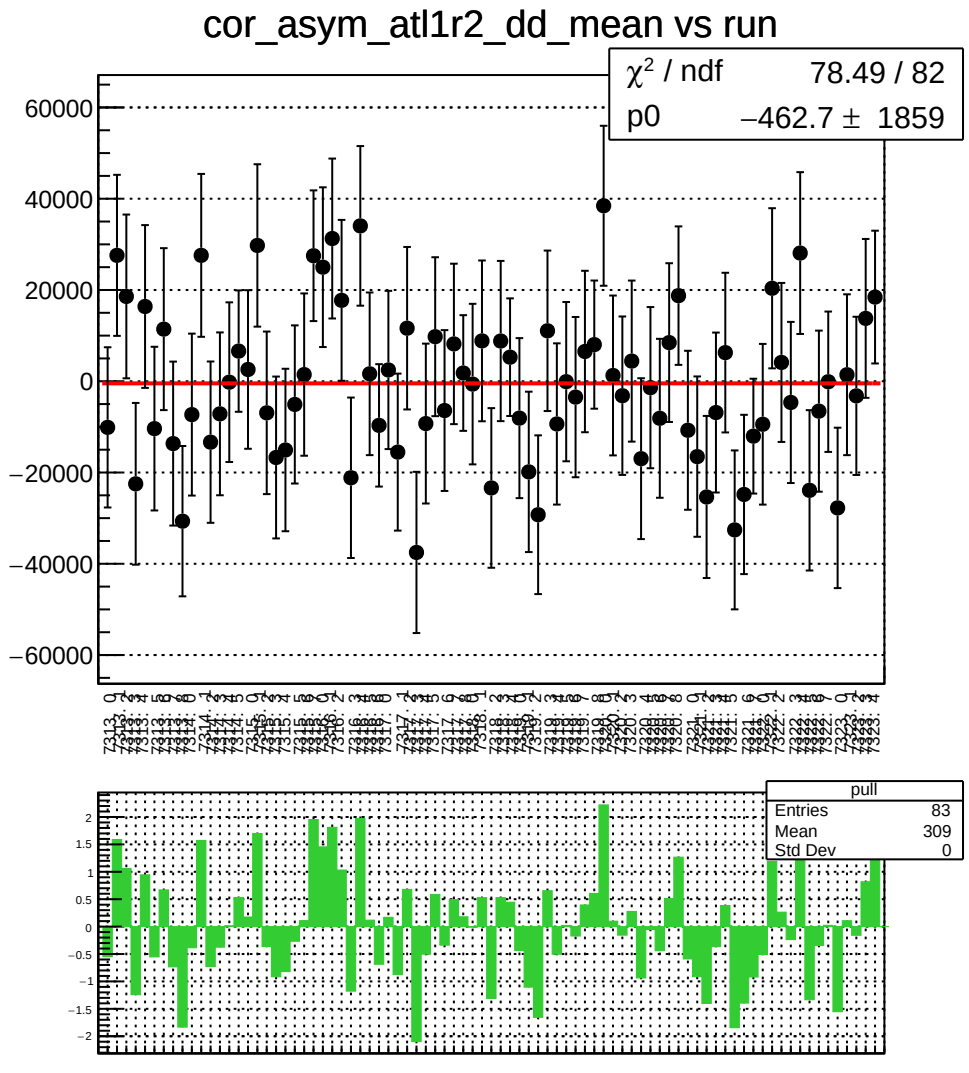

pull1D
Entries 83
Mean −0.008673
Std Dev 0.9725

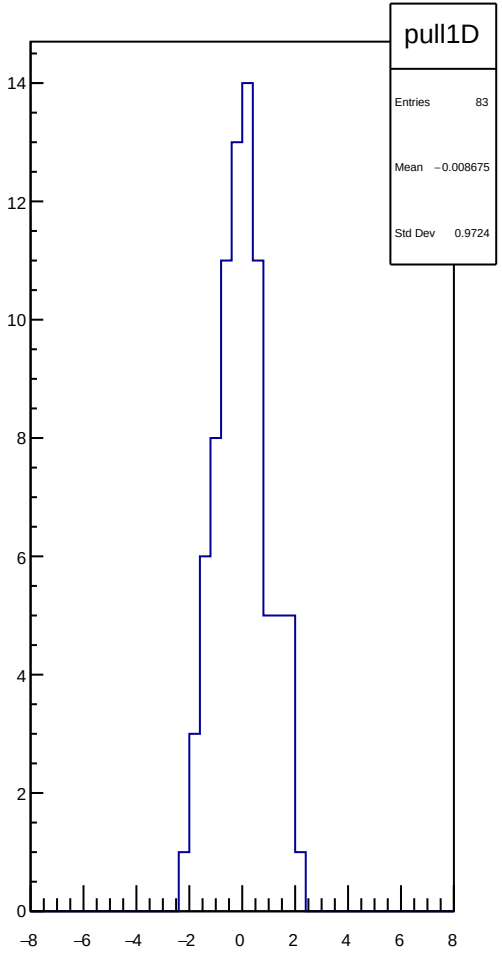

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 125 / 82
p0 1669 ± 1.315
1720
1700
1680
1660
1640
1620

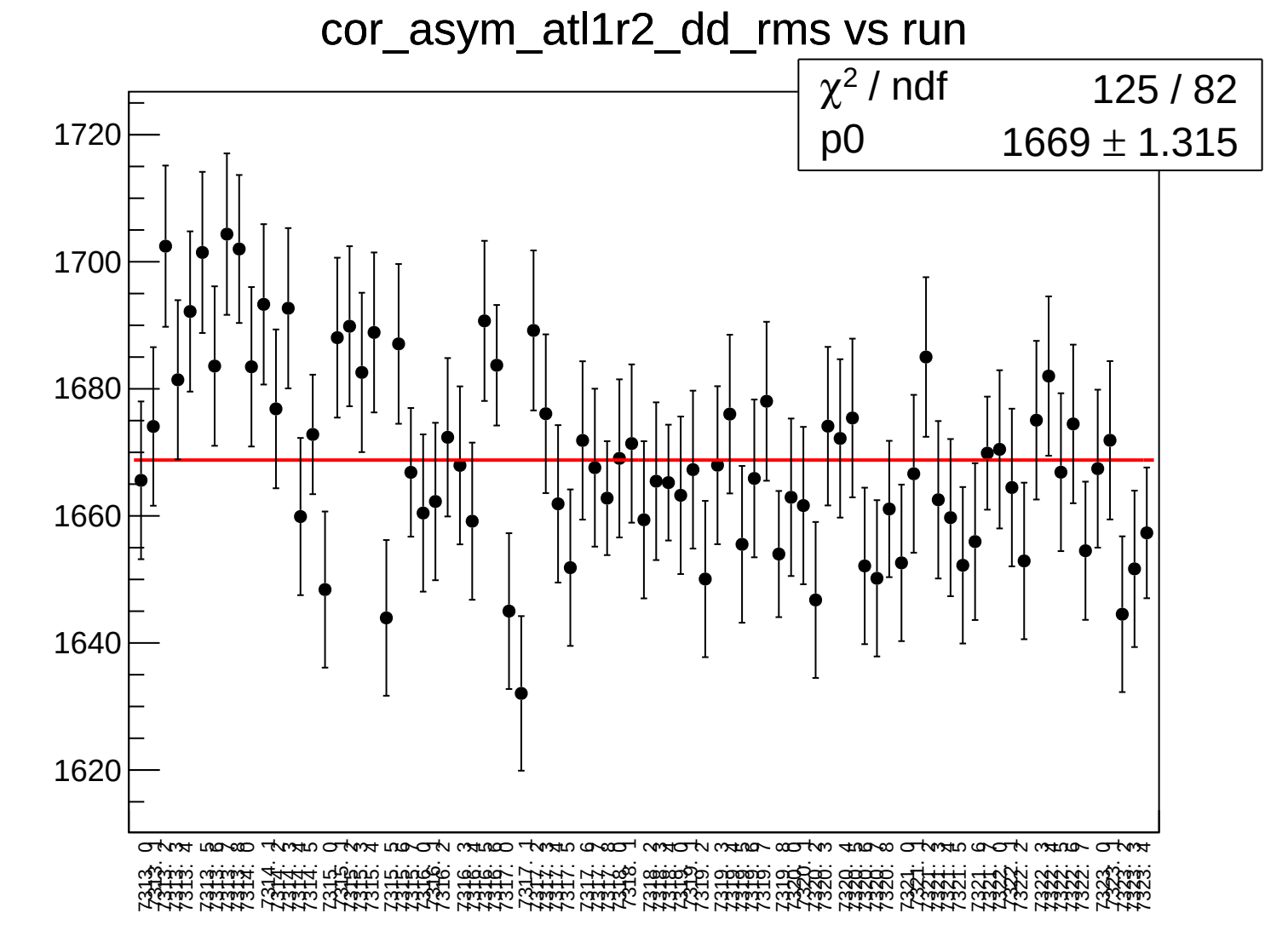

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.52 / 82
p0 −8268 ± 7101
pull
Entries 83
Mean 1076
Std Dev 0

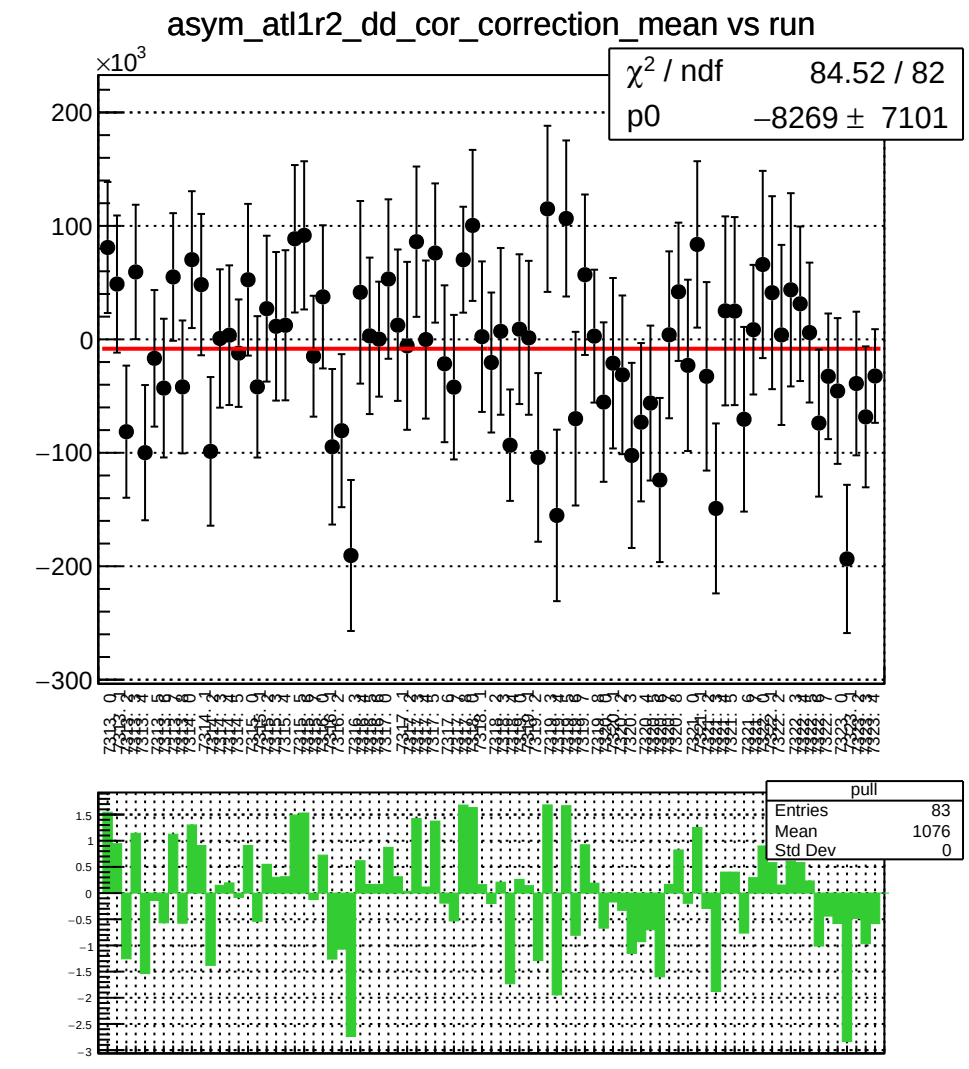

pull1D
Entries 83
Mean −0.004664
Std Dev 1.009

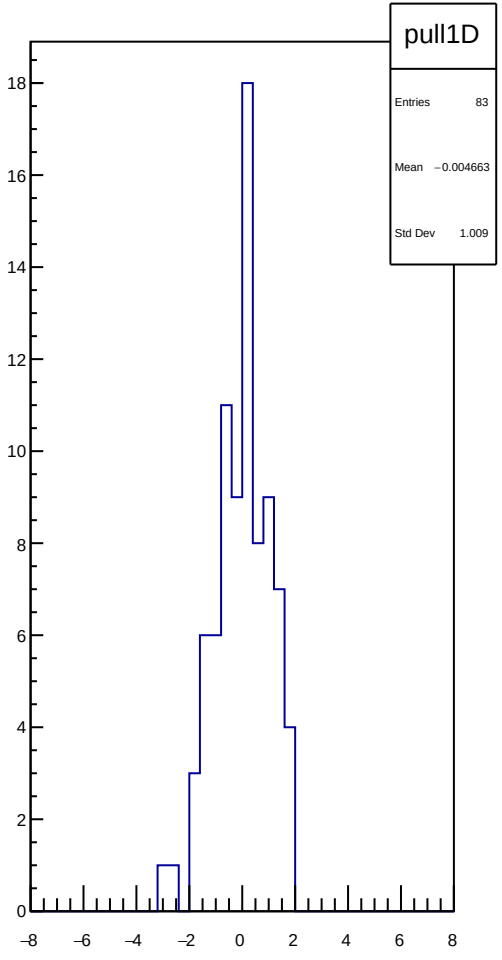

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.784e+04 / 82
p0 6339 ± 5.021
8000
7500
7000
6500
6000
5500
5000
4500

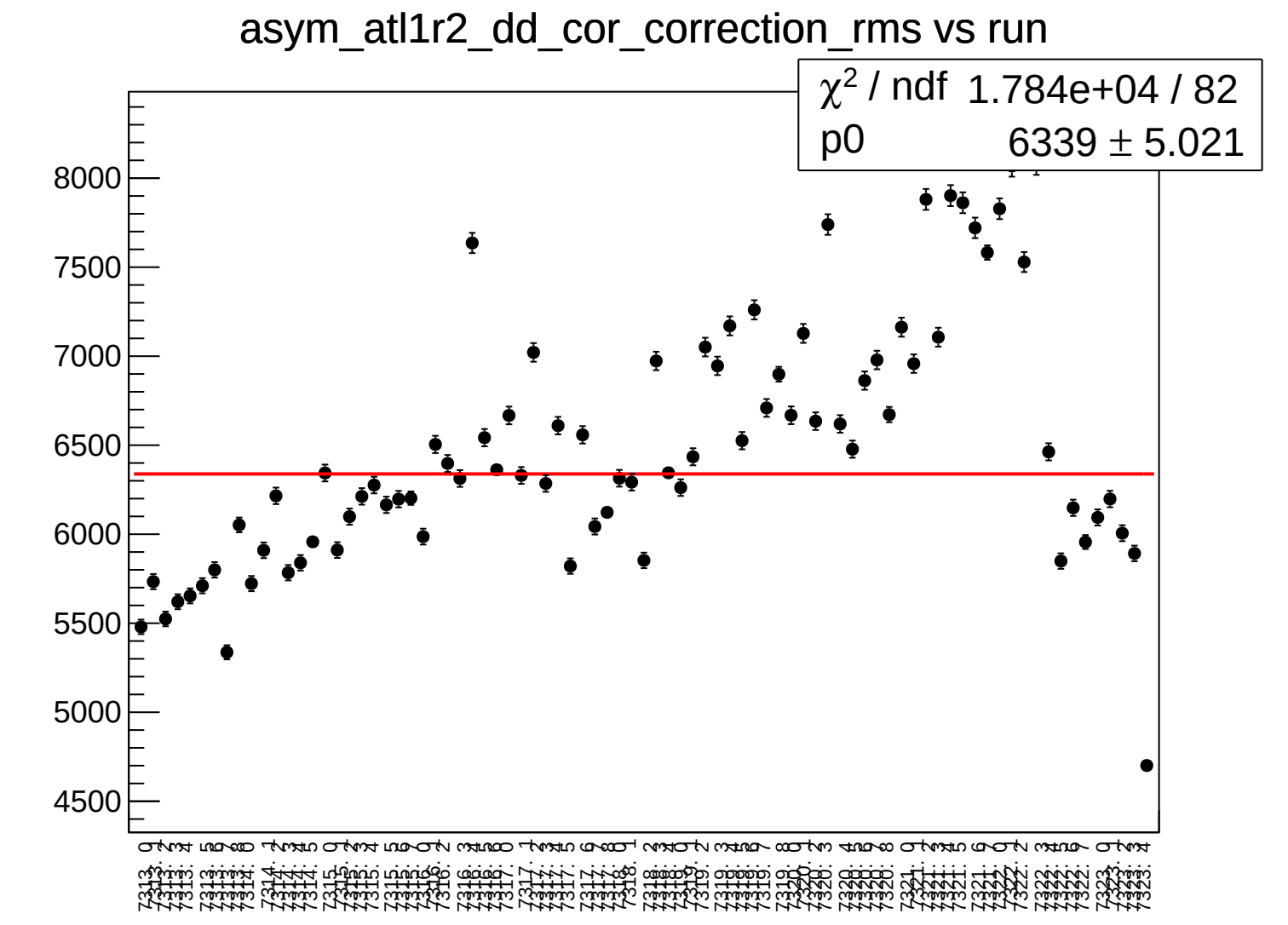

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 78.49 / 82
p0 −462.7 ± 1859
pull
Entries 83
Mean 309
Std Dev 0

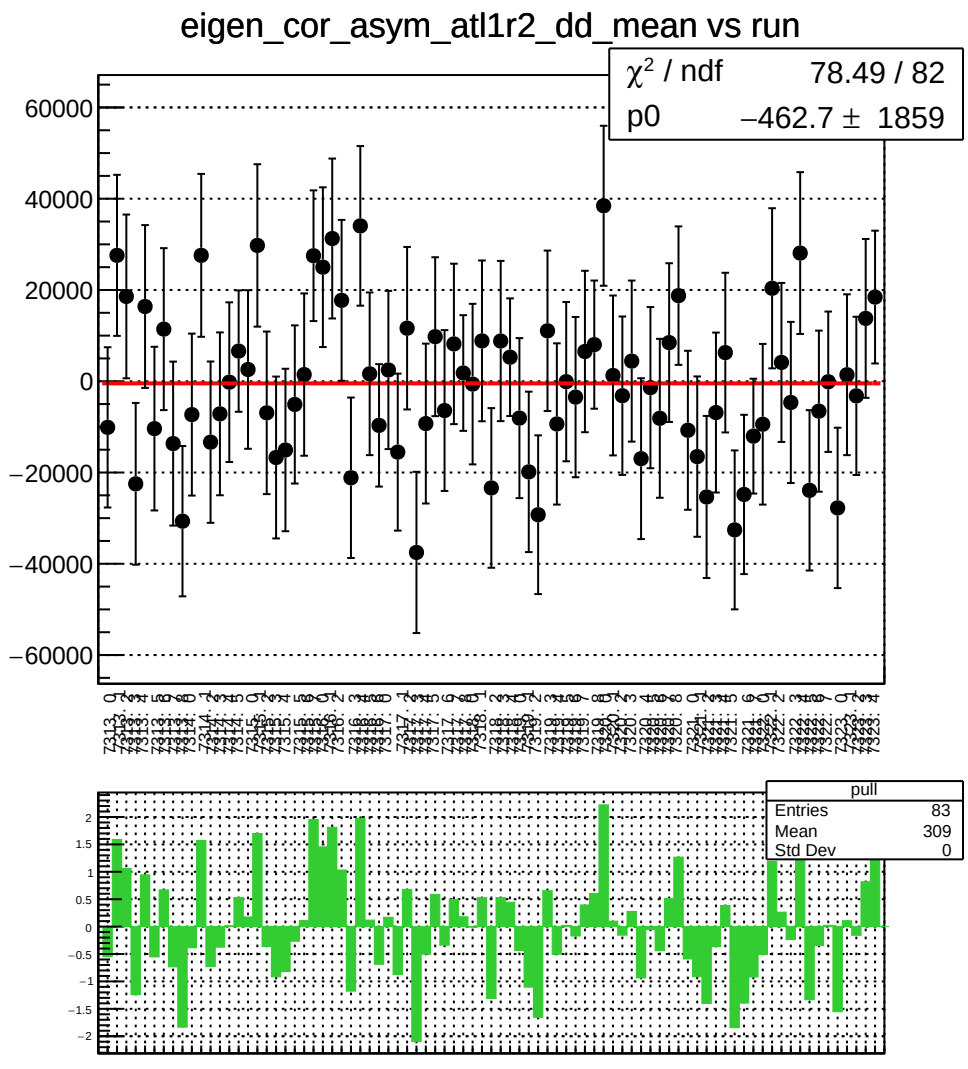

pull1D
Entries 83
Mean −0.008675
Std Dev 0.9724

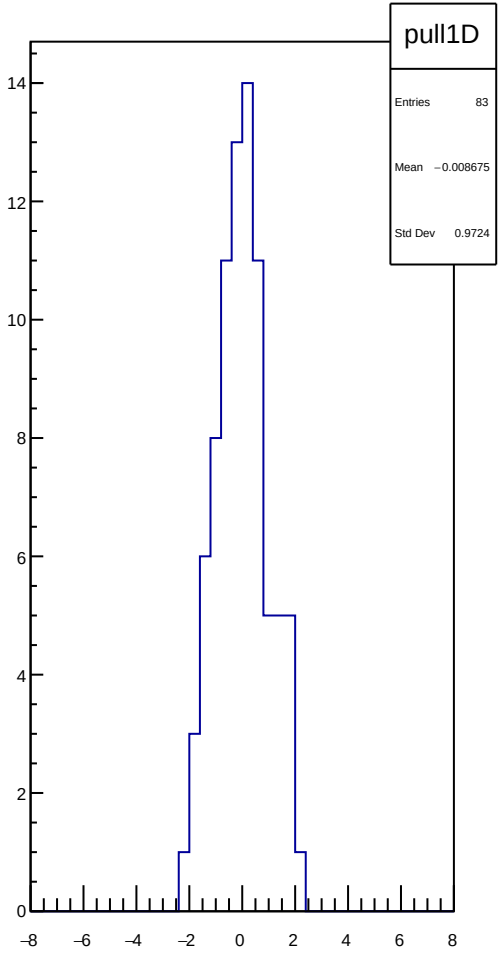

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 125 / 82
p0 1669 ± 1.315
1720
1700
1680
1660
1640
1620

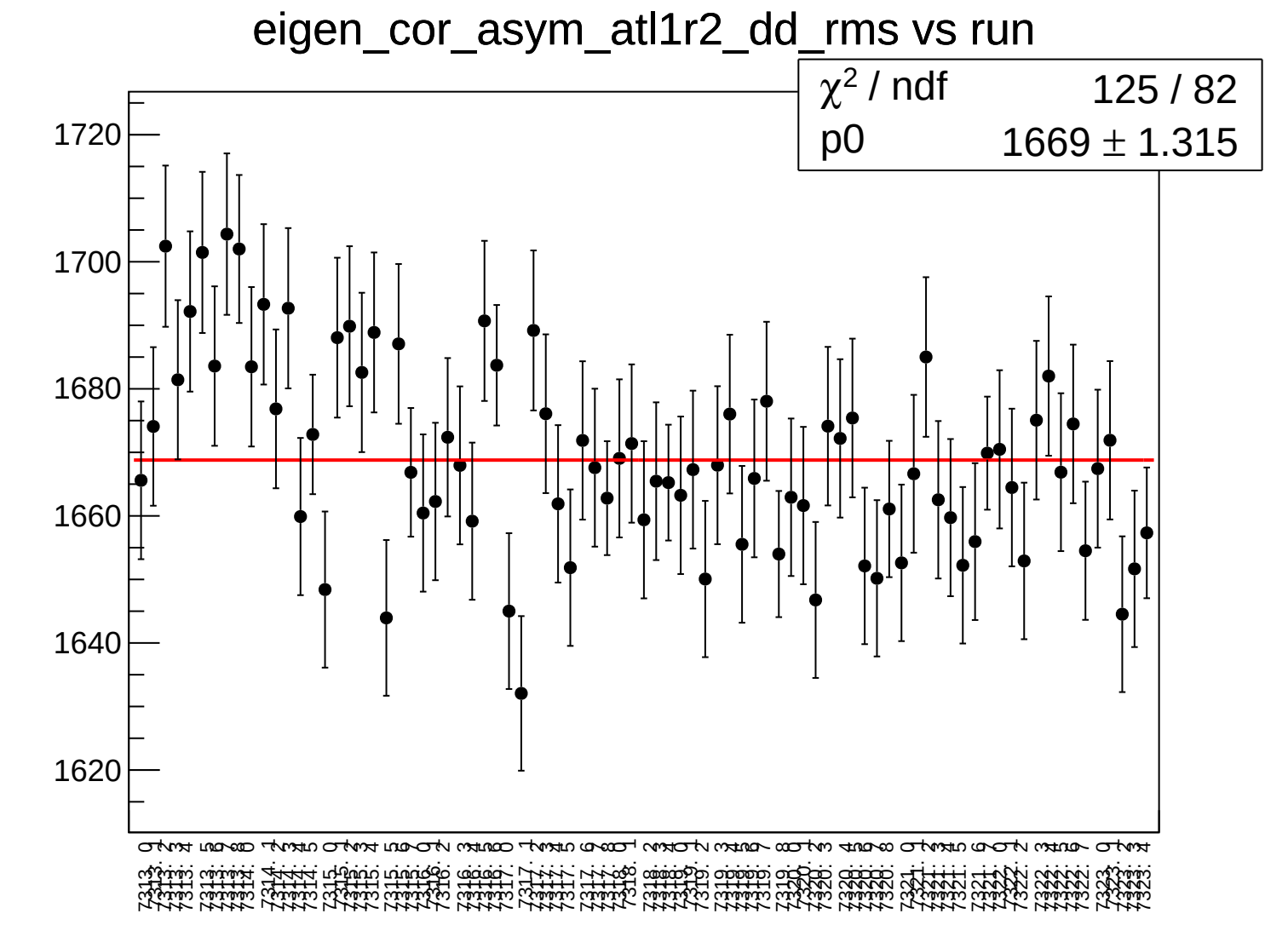

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.52 / 82
p0 −8269 ± 7101
pull
Entries 83
Mean 1076
Std Dev 0

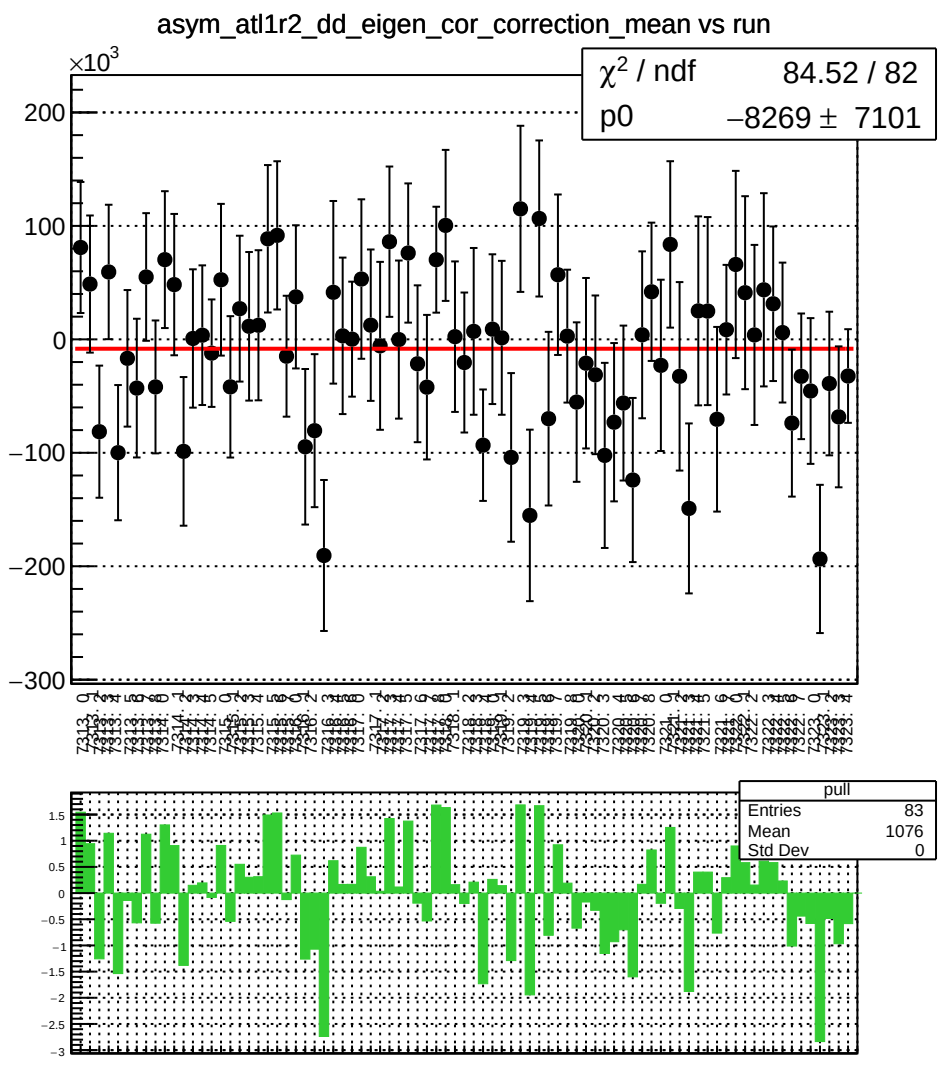

pull1D
Entries 83
Mean −0.004663
Std Dev 1.009

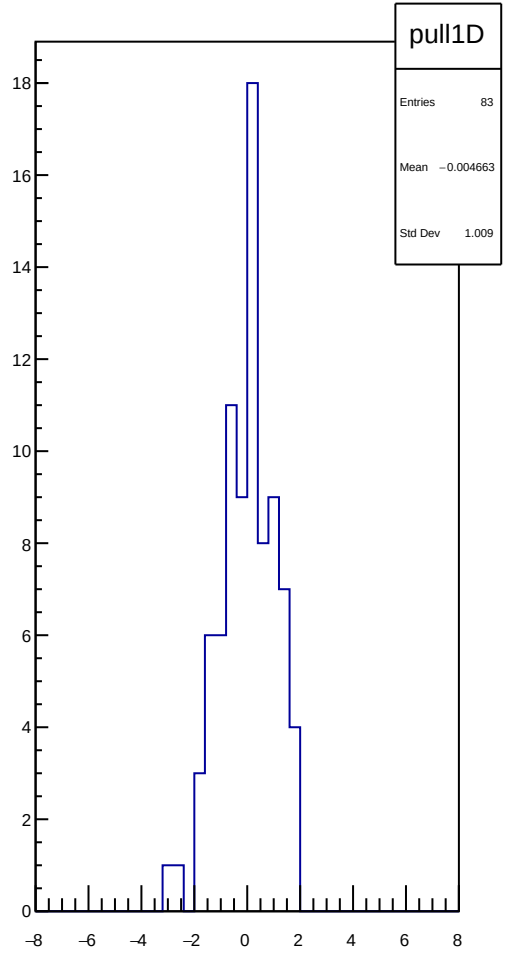

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.784e+04 / 82
p0 6339 ± 5.021
8000
7500
7000
6500
6000
5500
5000
4500

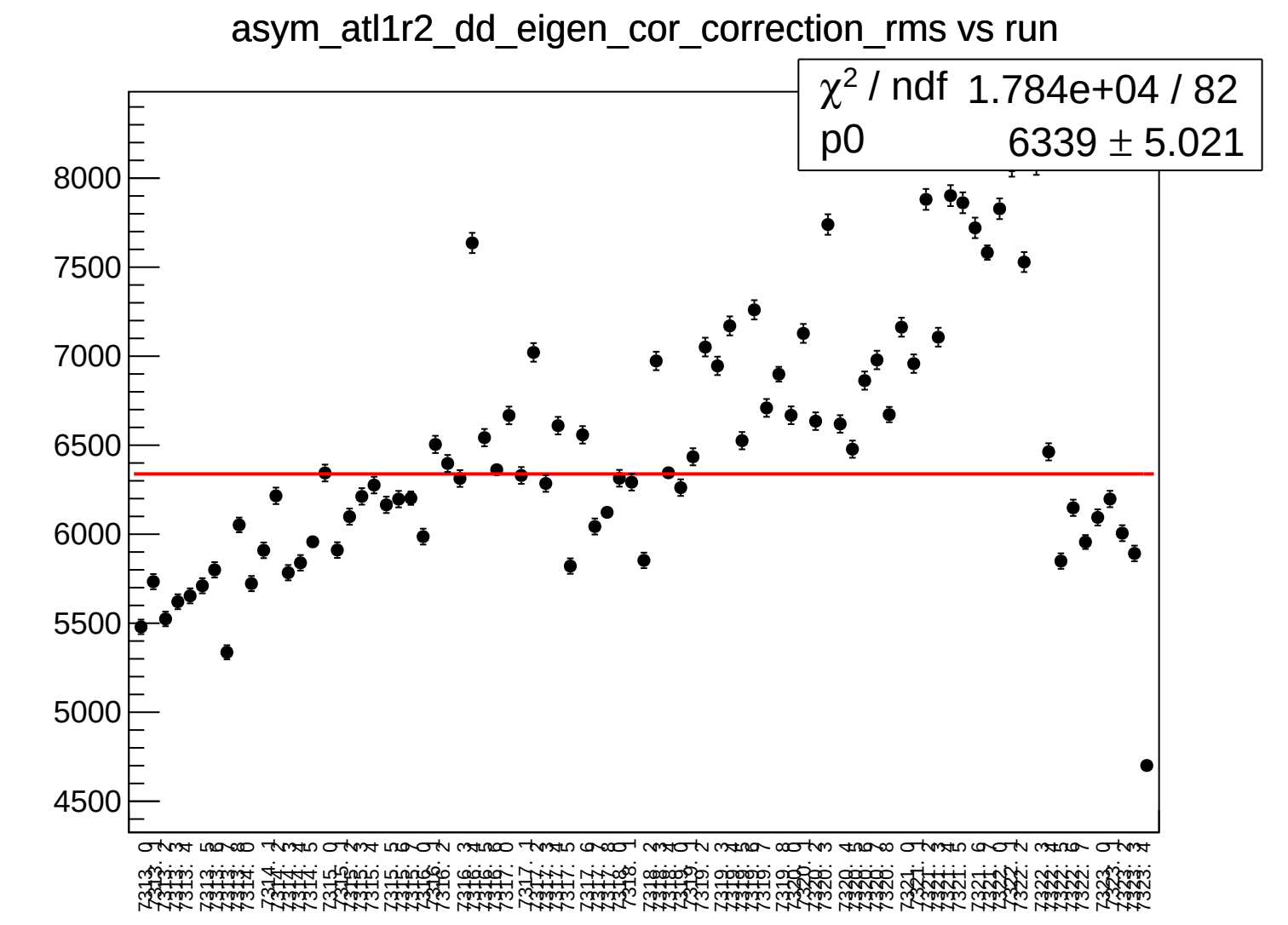

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 78.49 / 82
p0 −462.7 ± 1859
pull
Entries 83
Mean 309
Std Dev 0

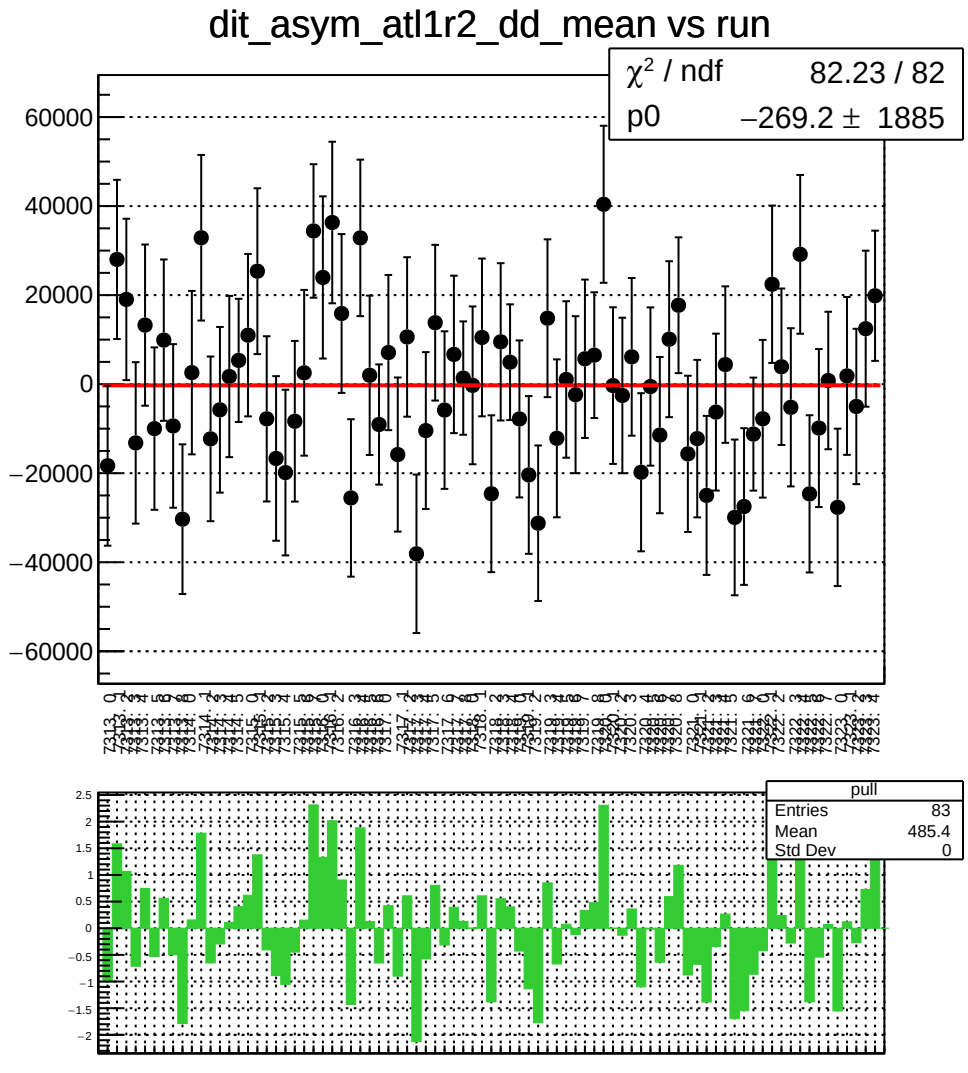

pull1D
Entries 83
Mean −0.008675
Std Dev 0.9724

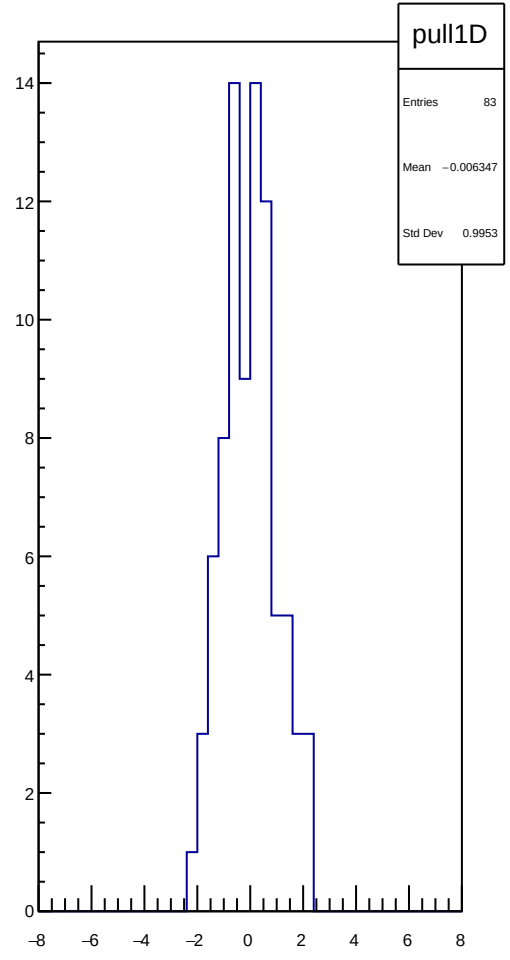

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 125 / 82
p0 1669 ± 1.315
1720
1700
1680
1660
1640
1620

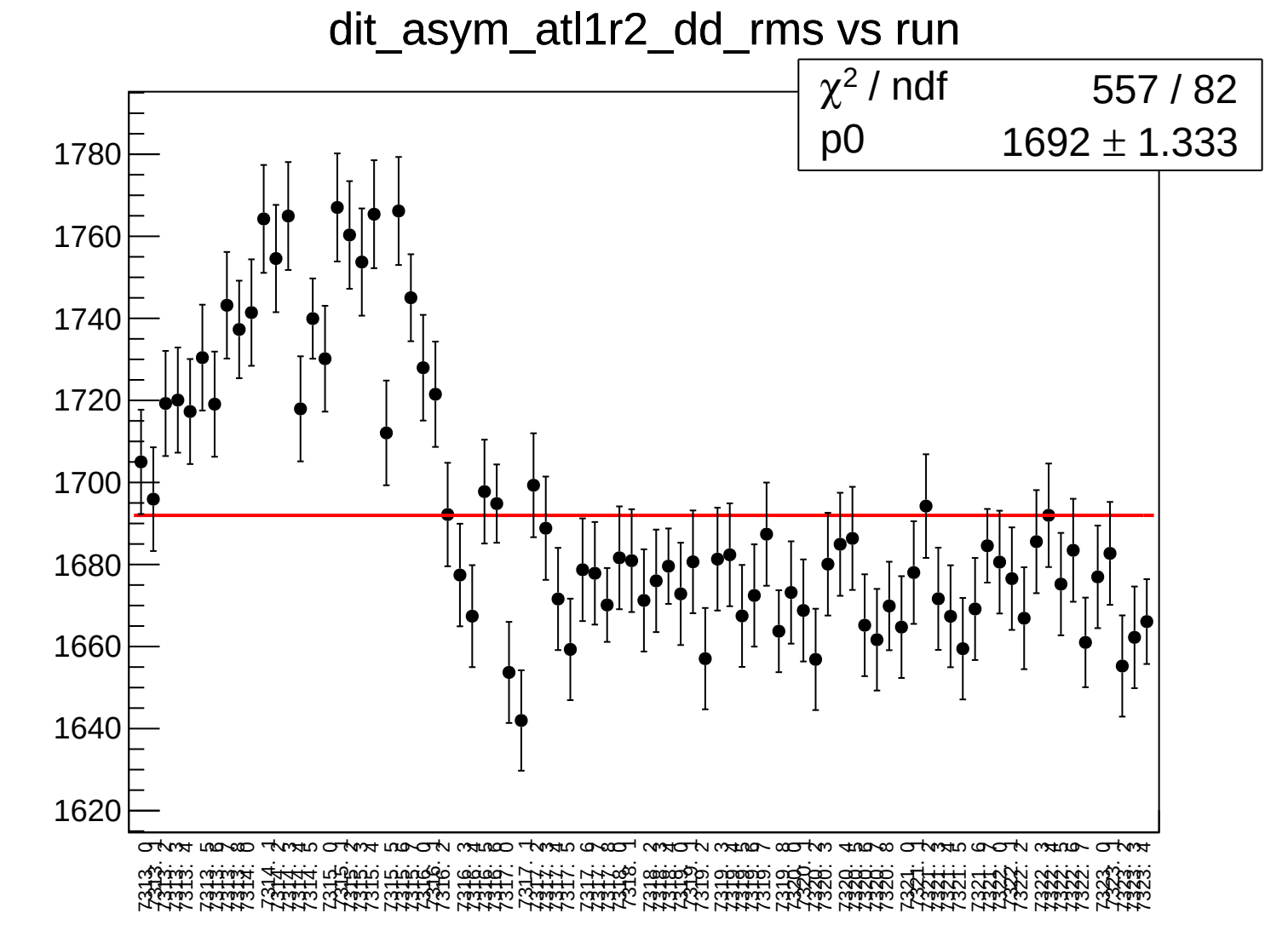

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.52 / 82
p0 −8269 ± 7101
pull
Entries 83
Mean 1076
Std Dev 0

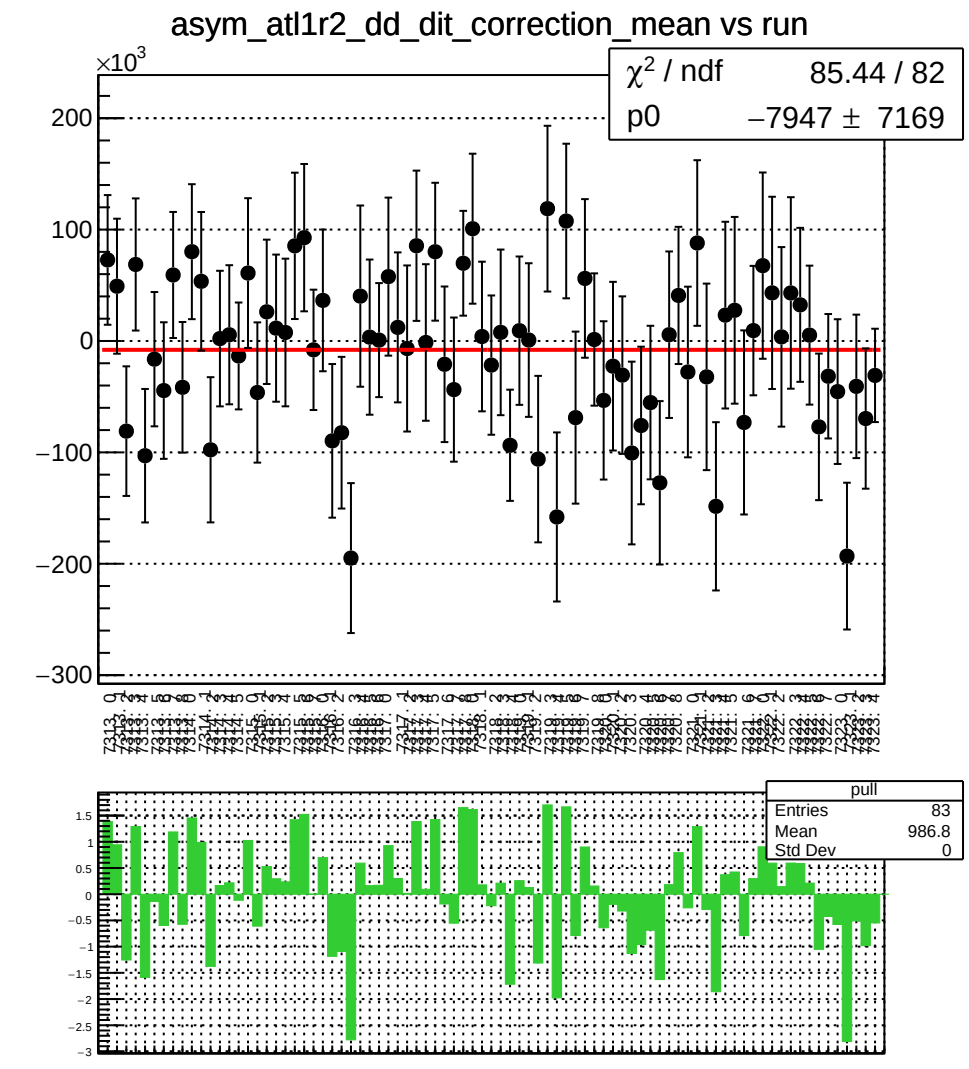

pull1D
Entries 83
Mean −0.004663
Std Dev 1.009

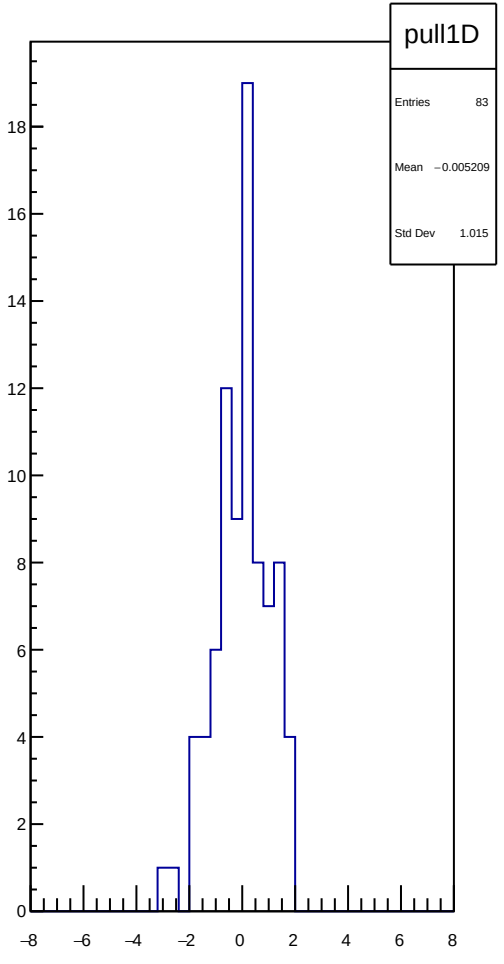

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.784e+04 / 82
p0 6339 ± 5.021
8000
7500
7000
6500
6000
5500
5000
4500

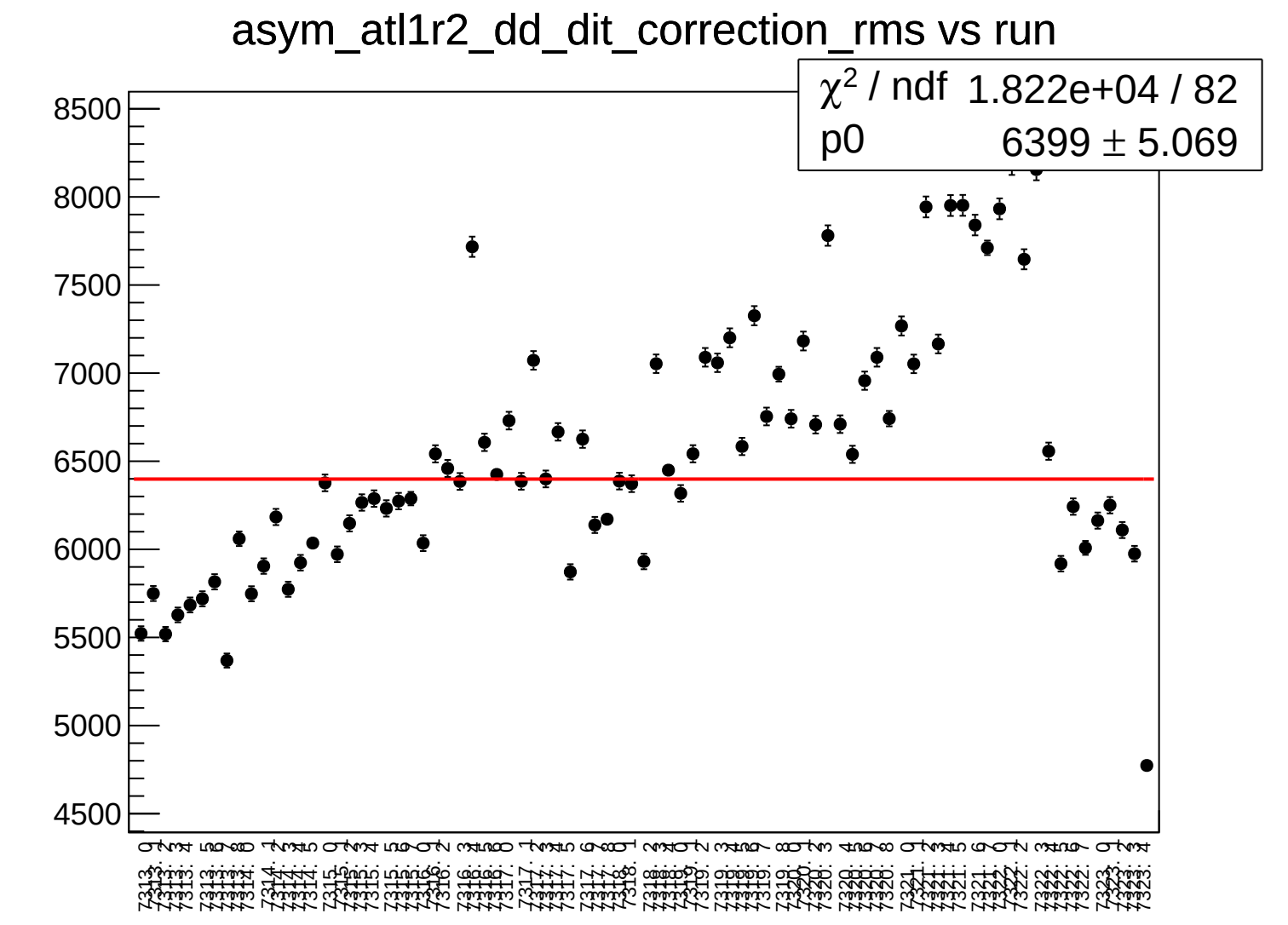

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 82.23 / 82
p0 −269.2 ± 1885
pull
Entries 83
Mean 485.4
Std Dev 0

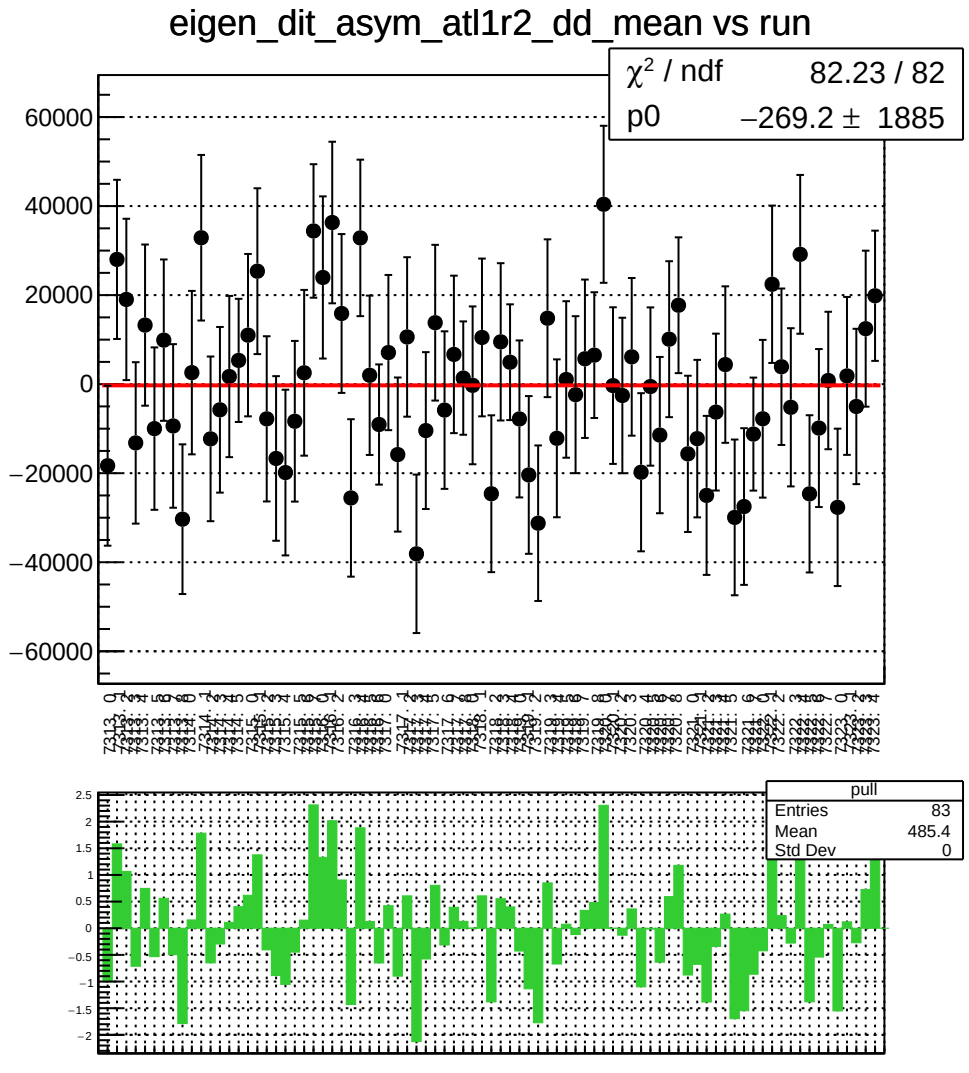

pull1D
Entries 83
Mean −0.006347
Std Dev 0.9953

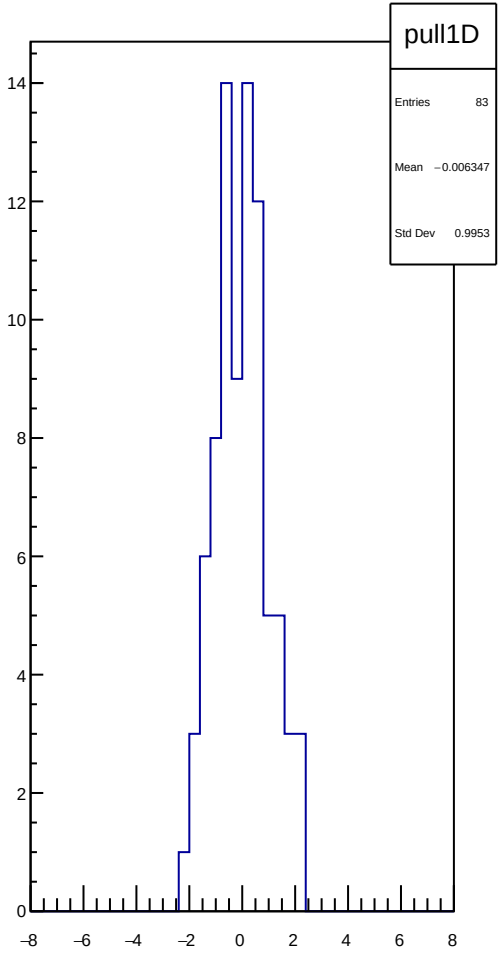

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 557 / 82
p0 1692 ± 1.333
1780
1760
1740
1720
1700
1680
1660
1640
1620

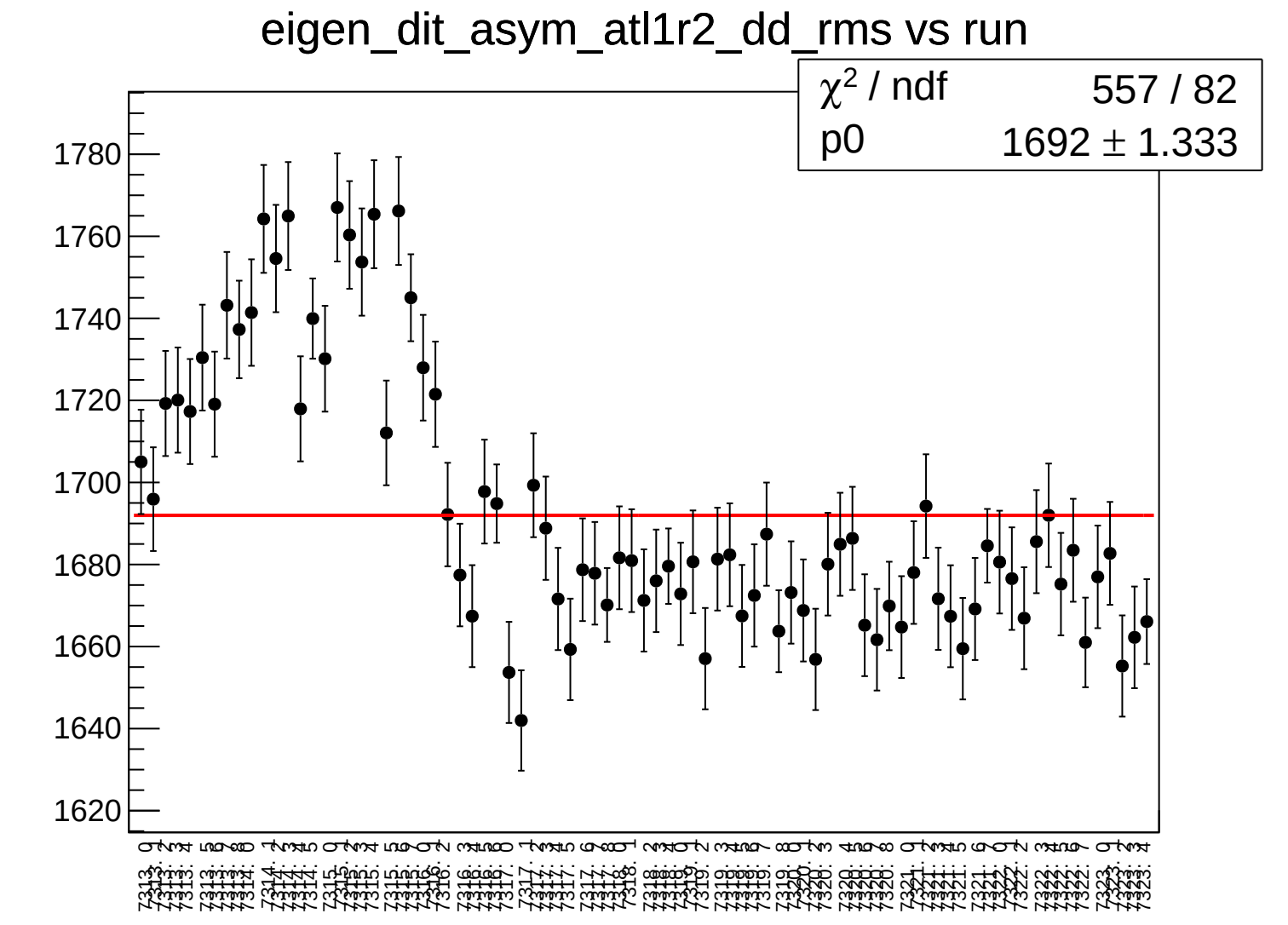

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.44 / 82
p0 −7947 ± 7169
pull
Entries 83
Mean 986.8
Std Dev 0

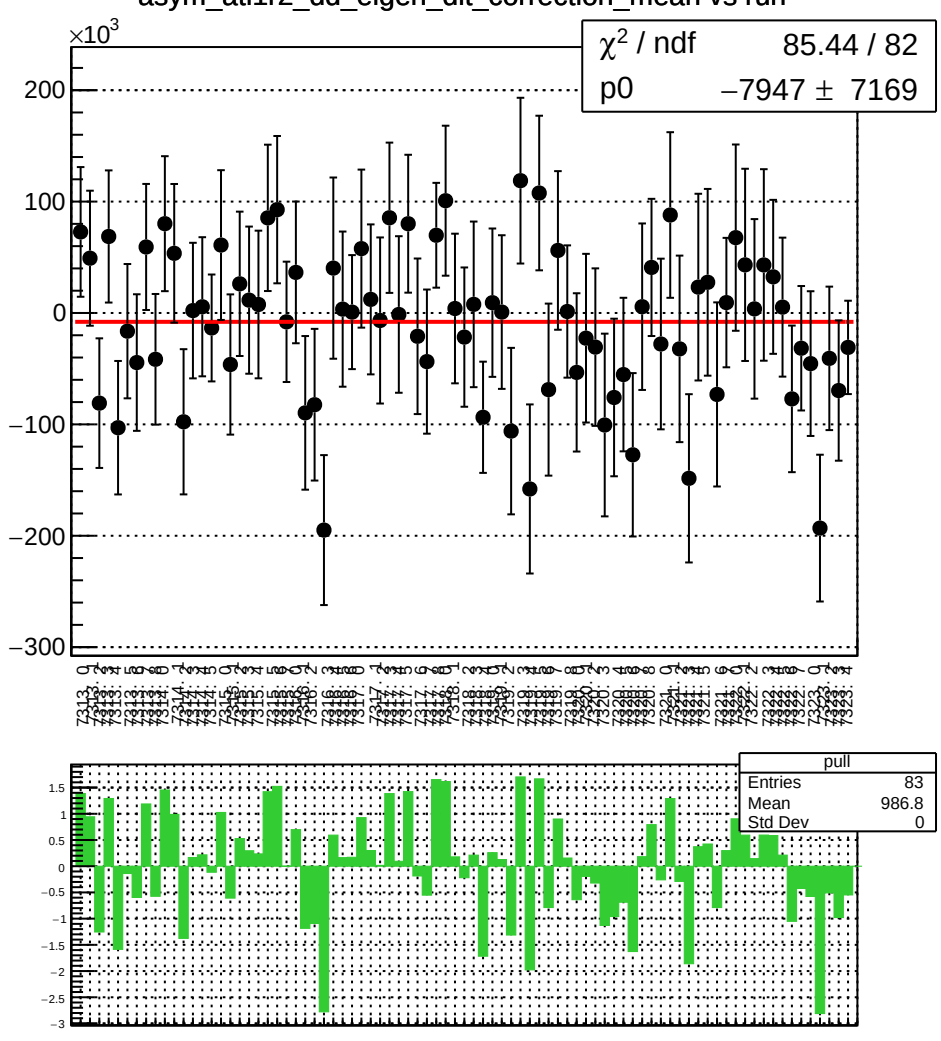

pull1D
Entries 83
Mean −0.005209
Std Dev 1.015

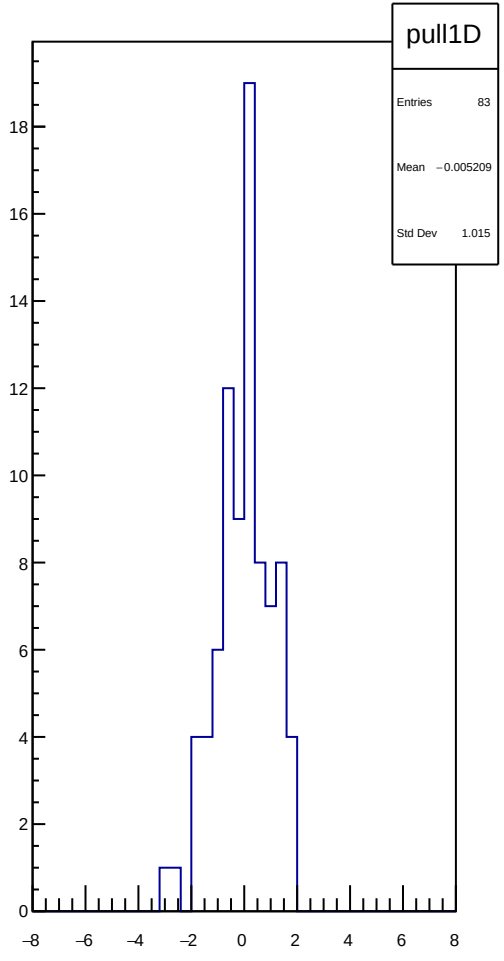

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.822e+04 / 82
p0 6399 ± 5.069
8500
8000
7500
7000
6500
6000
5500
5000
4500

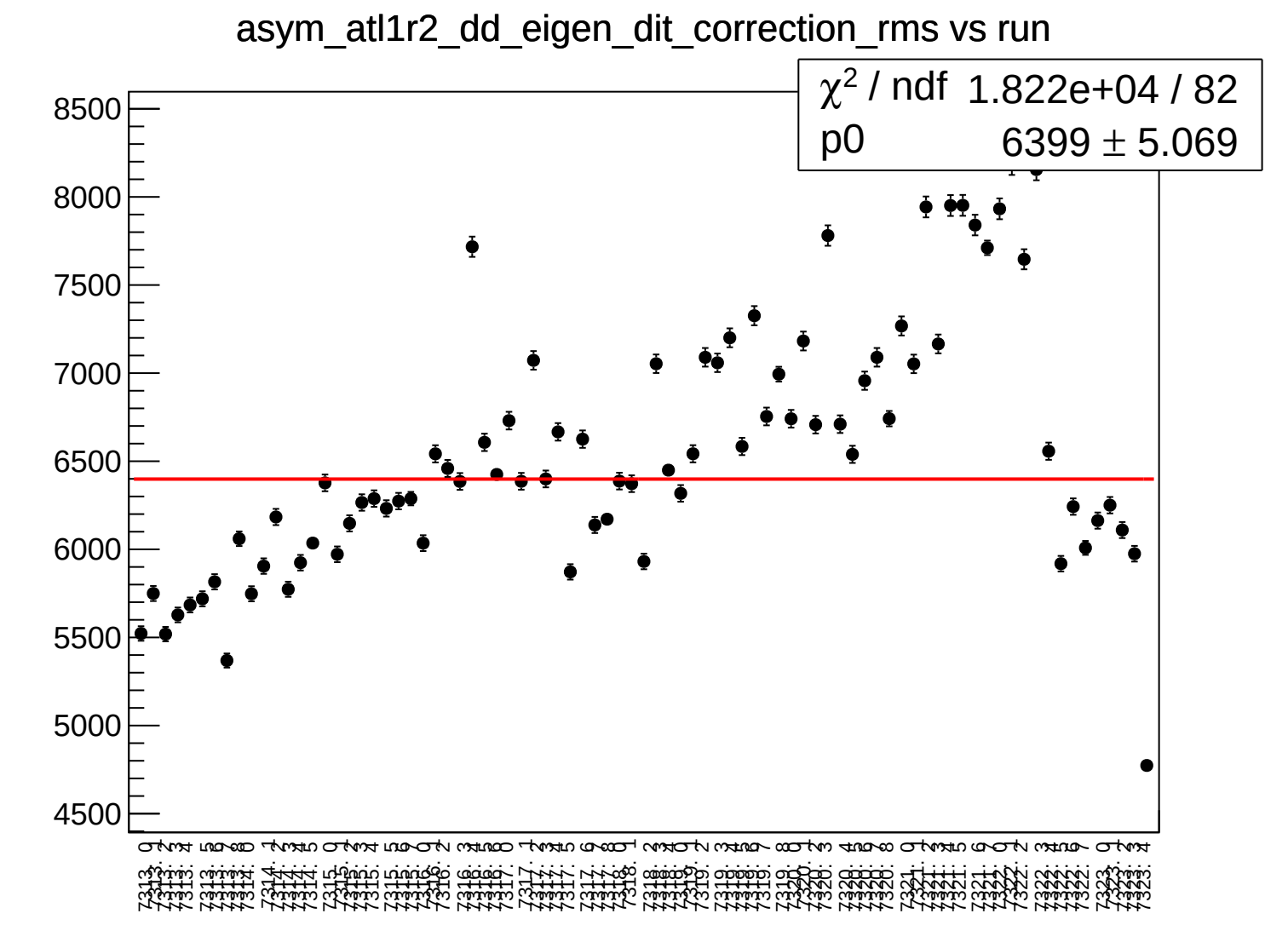

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 82.23 / 82
p0 −269.2 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 485.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

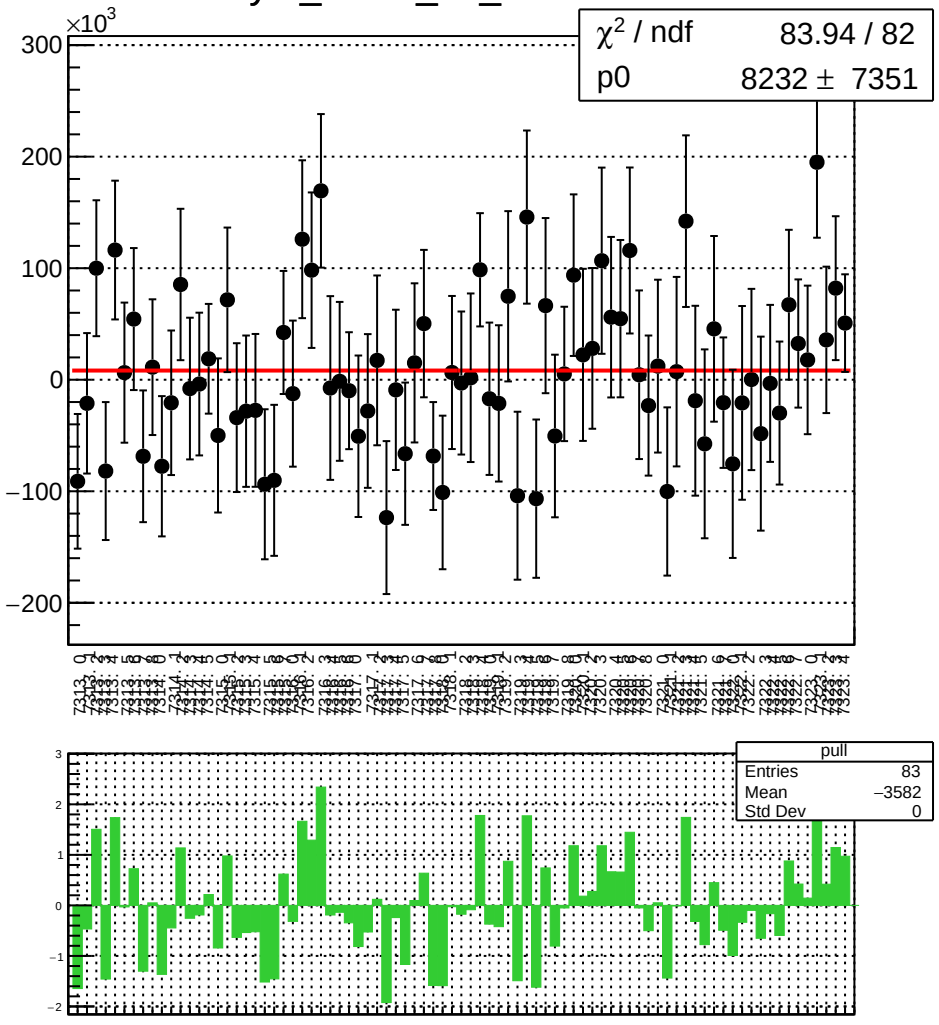

pull1D
Entries 83
Mean −0.006347
Std Dev 0.9953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

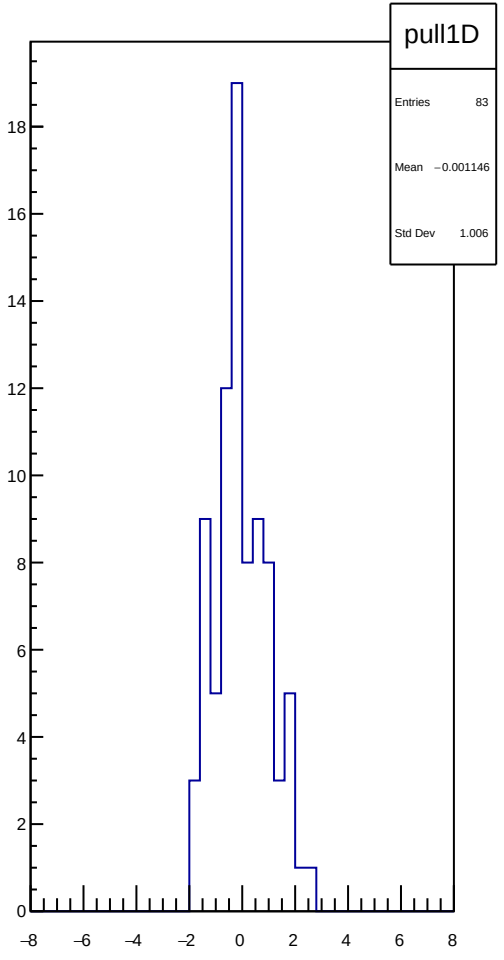

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 557 / 82
p0 1692 ± 1.333
1780
1760
1740
1720
1700
1680
1660
1640
1620

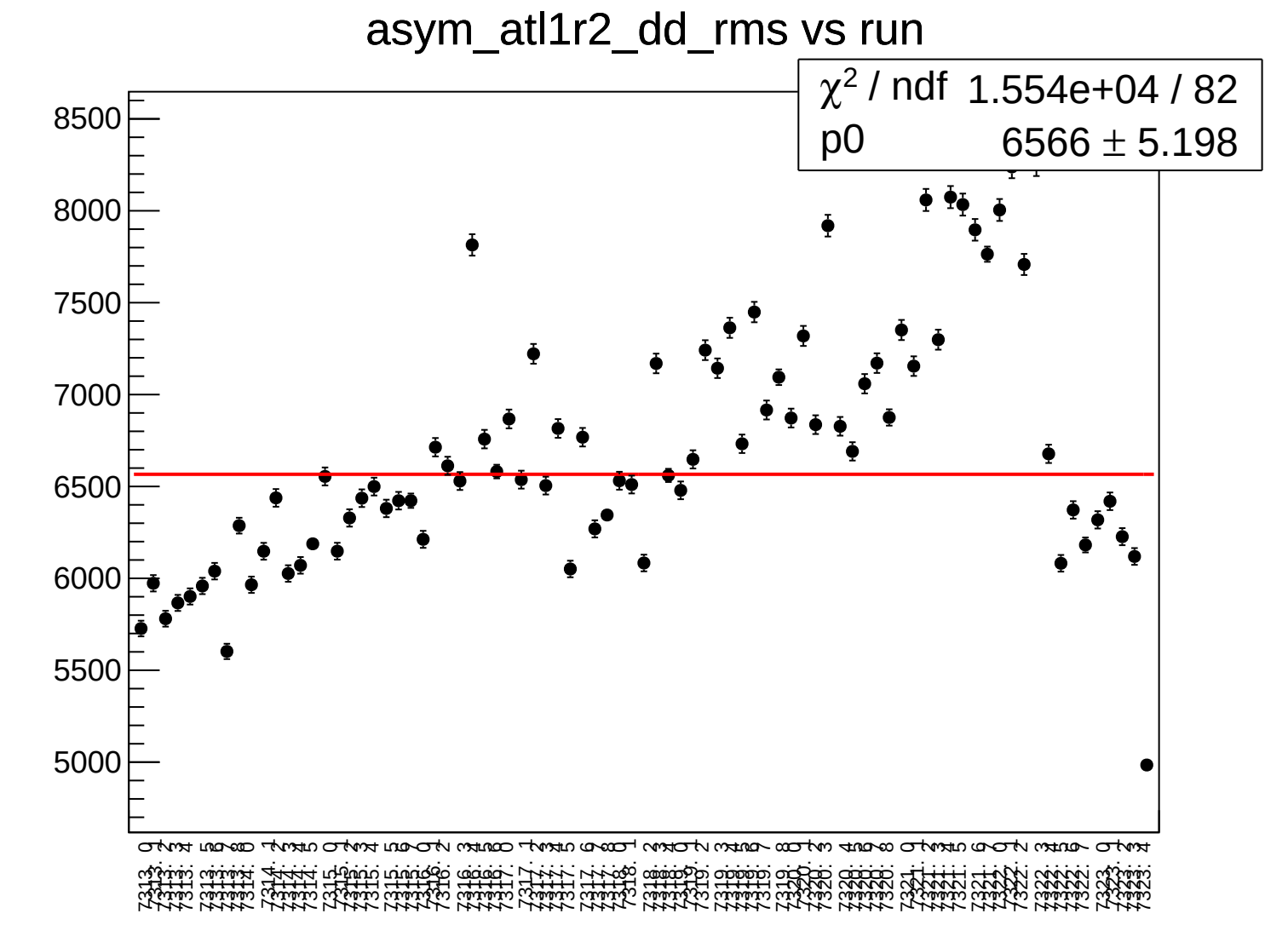

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.44 / 82
p0 −7947 ± 7169
pull
Entries 83
Mean 986.8
Std Dev 0

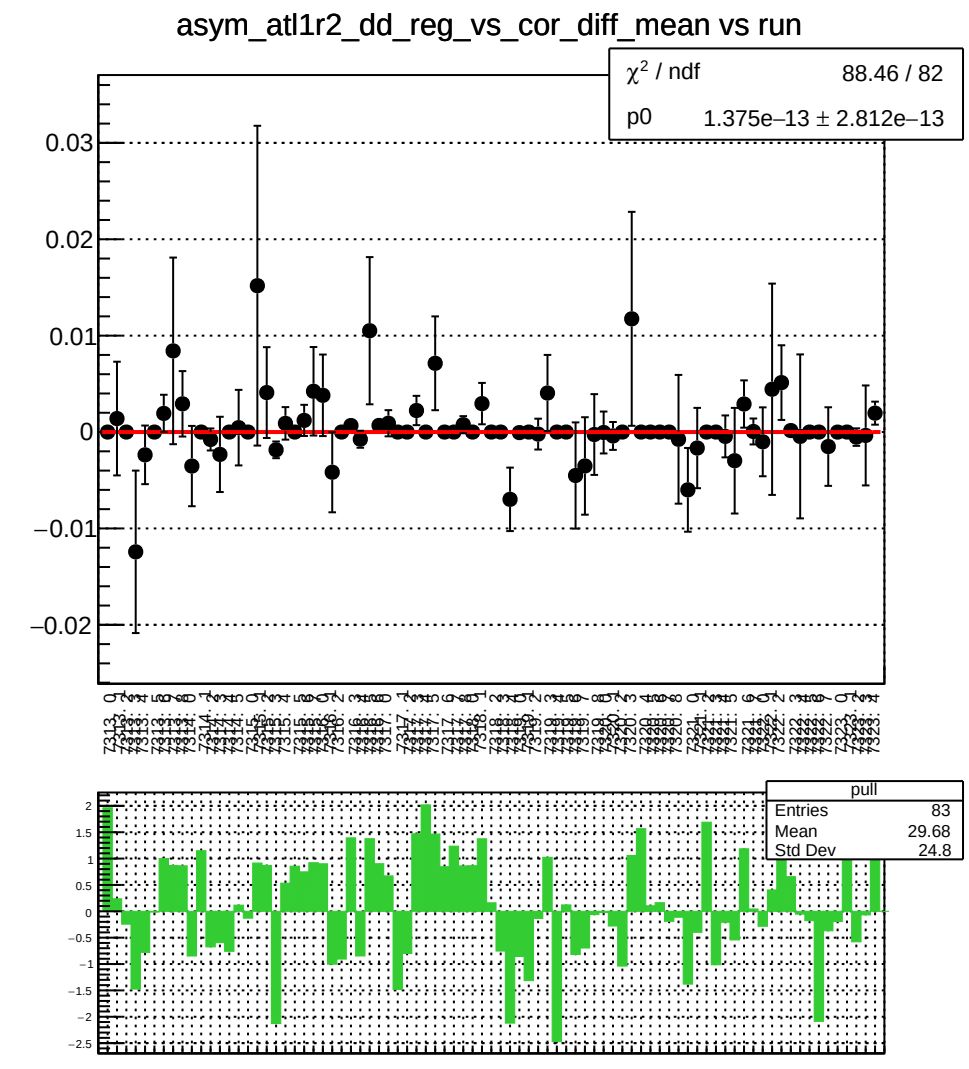

pull1D
Entries 83
Mean −0.005209
Std Dev 1.015

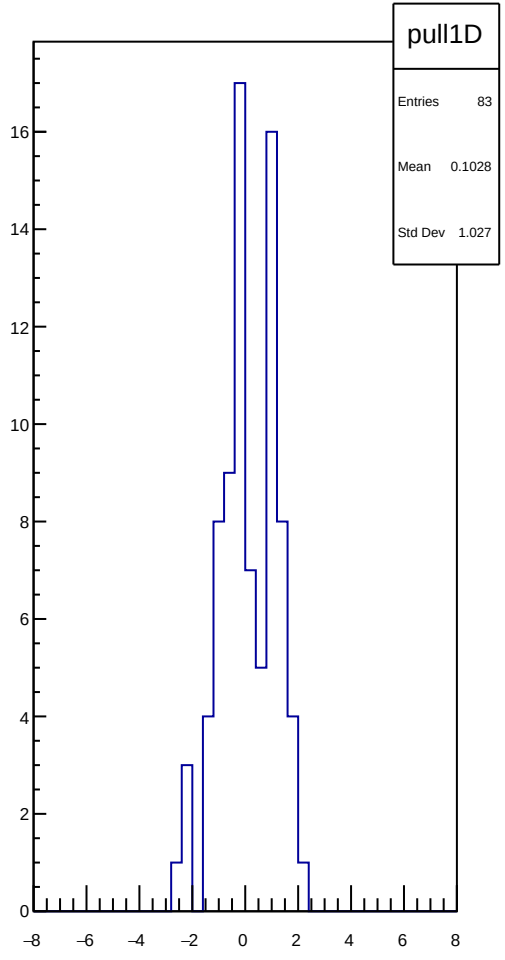

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.822e+04 / 82
p0 6399 ± 5.069
8500
8000
7500
7000
6500
6000
5500
5000
4500

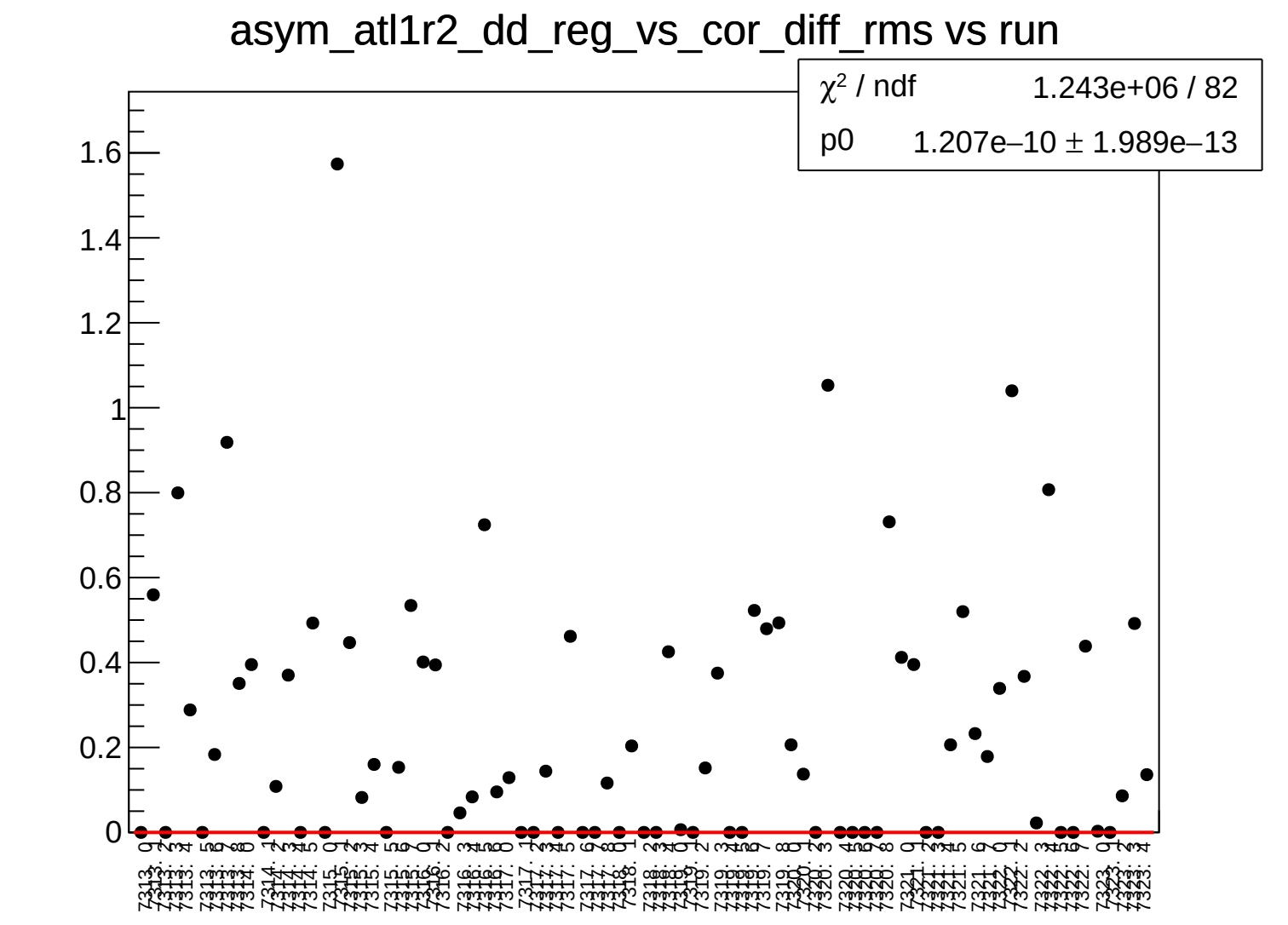

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.94 / 82
p0 8232 ± 7351
pull
Entries 83
Mean −3582
Std Dev 0

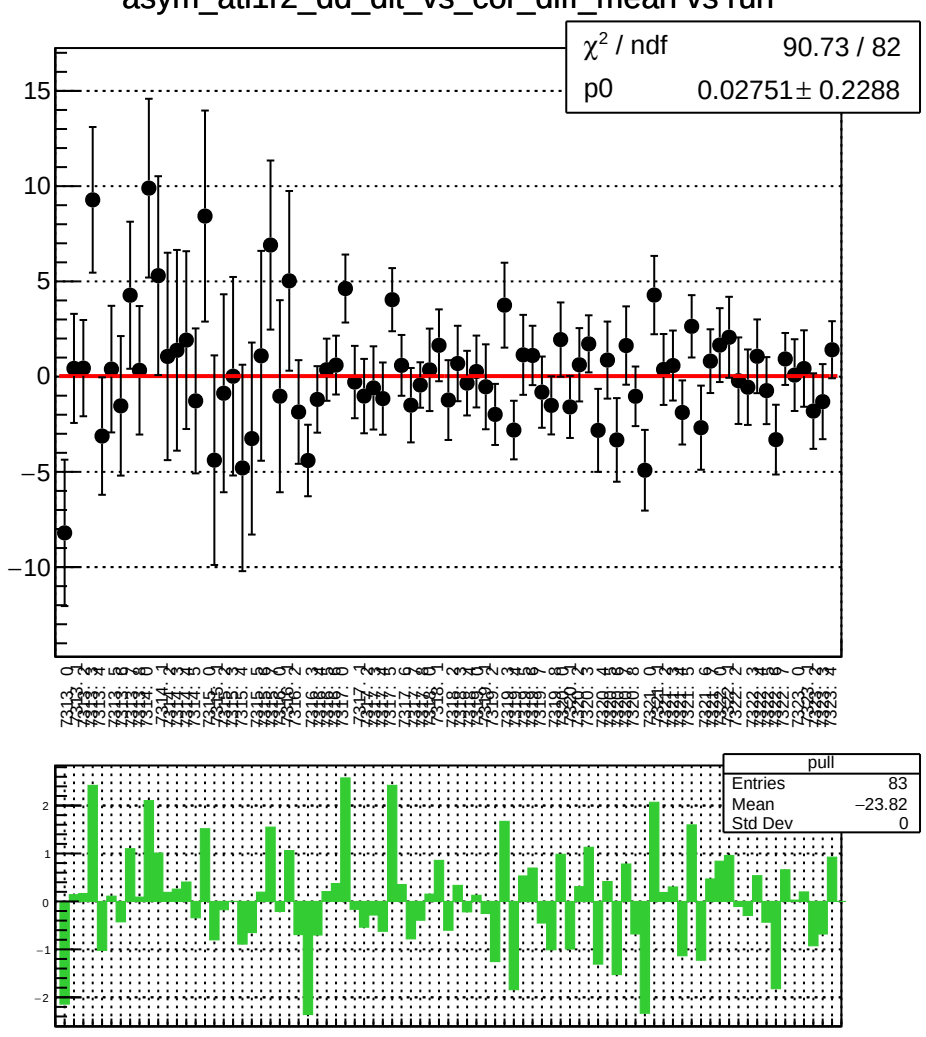

pull1D
Entries 83
Mean −0.001146
Std Dev 1.006

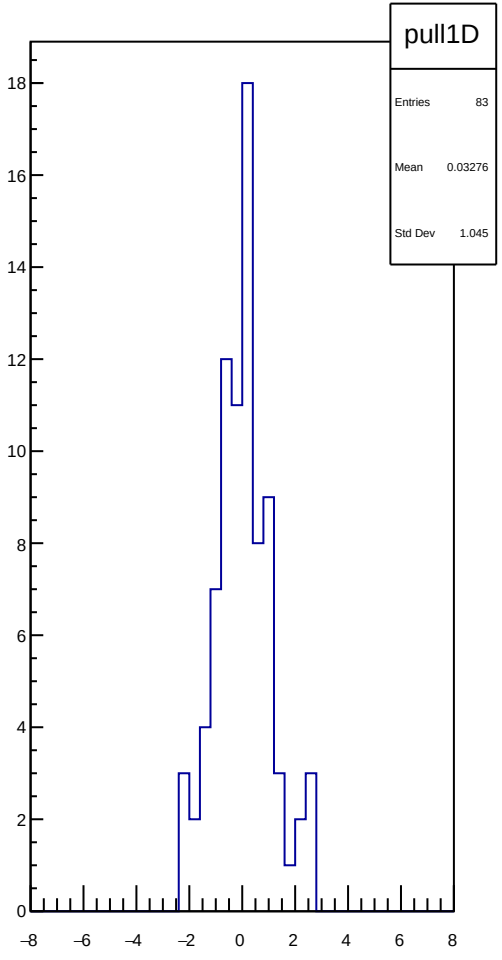

asym_atl1r2_dd_rms vs run
χ² / ndf 1.554e+04 / 82
p0 6566 ± 5.198
8500
8000
7500
7000
6500
6000
5500
5000

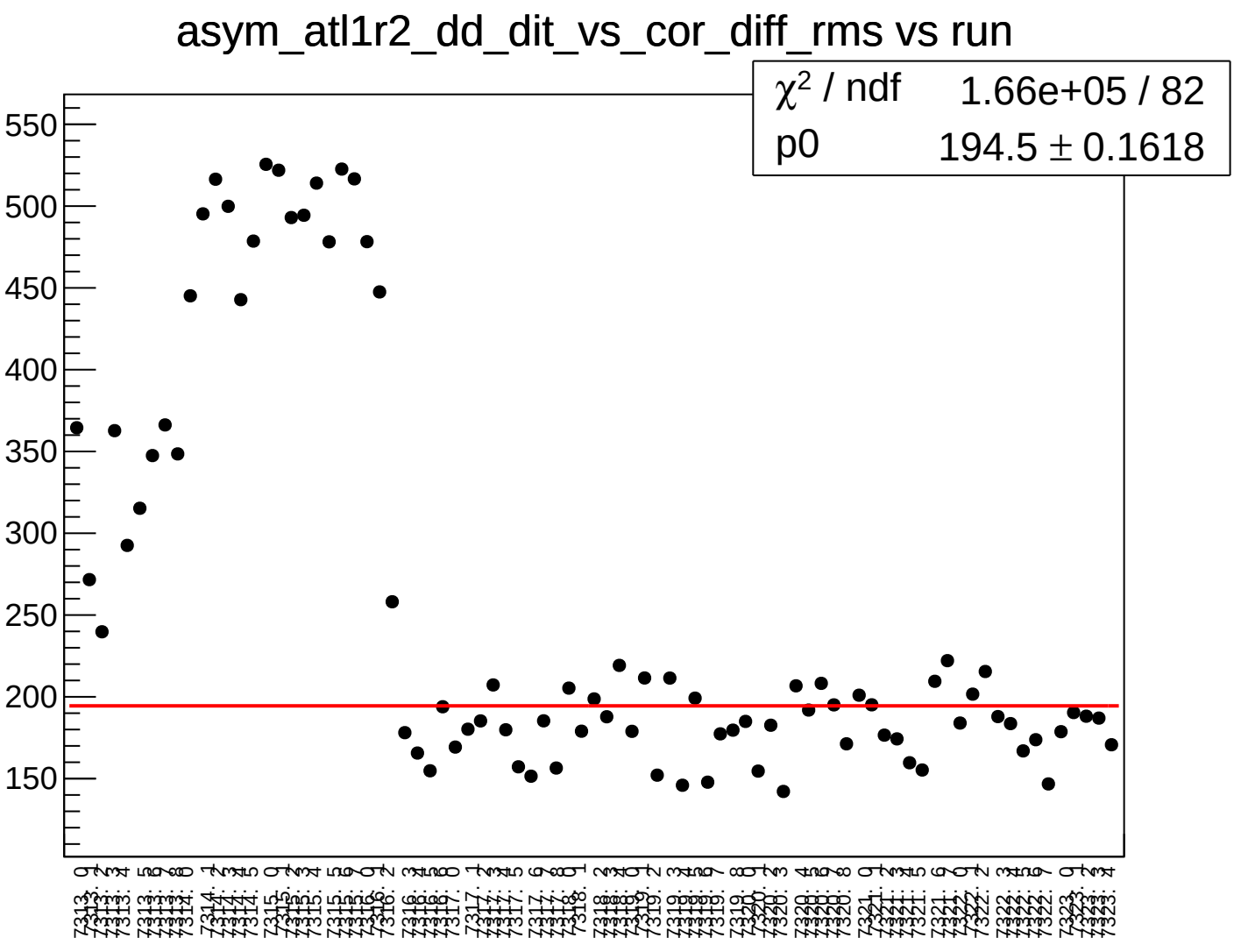

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.46 / 82
p0 1.375e−13 ± 2.812e−13
pull
Entries 83
Mean 29.68
Std Dev 24.8

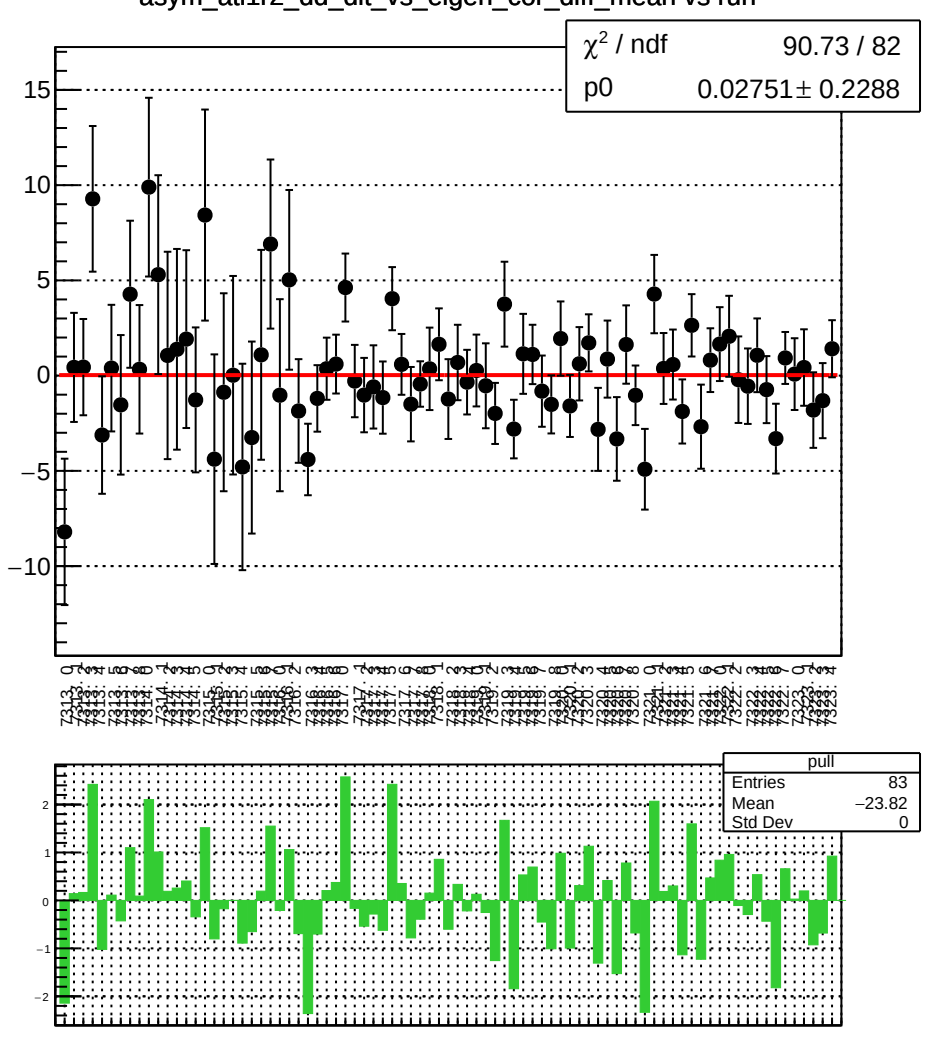

pull1D
Entries 83
Mean 0.1028
Std Dev 1.027

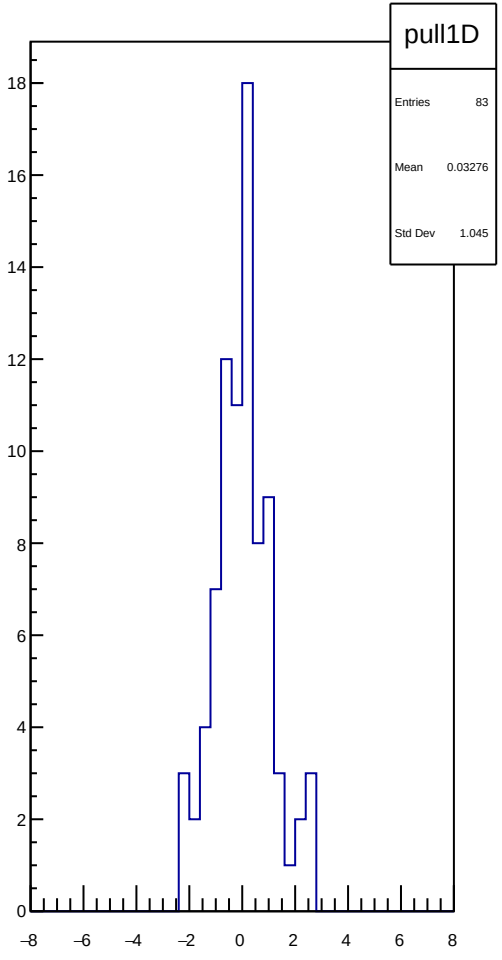

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.243e+06 / 82
p0 1.207e−10 ± 1.989e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

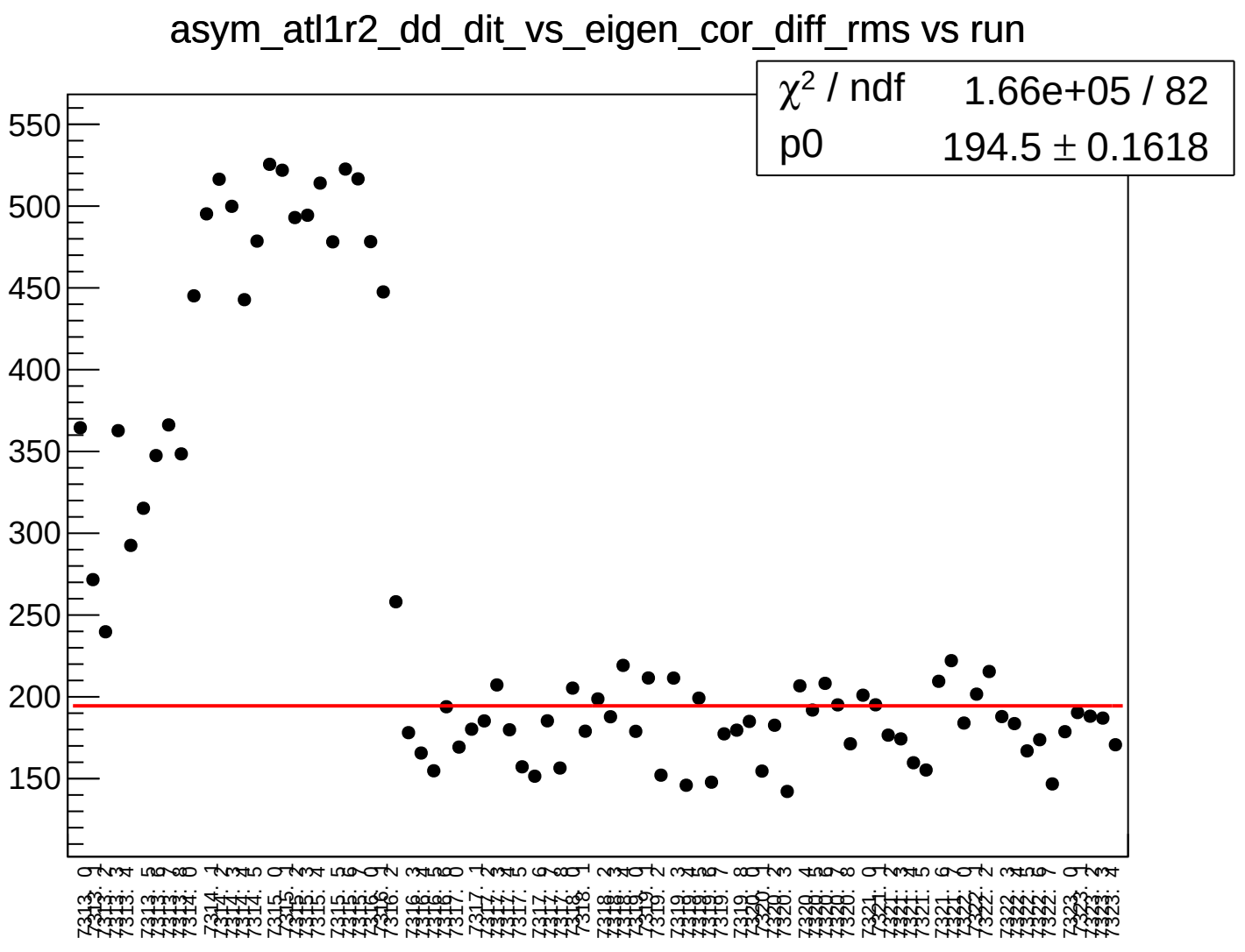

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 82
p0 0.02751 ± 0.2288
pull
Entries 83
Mean −23.82
Std Dev 0

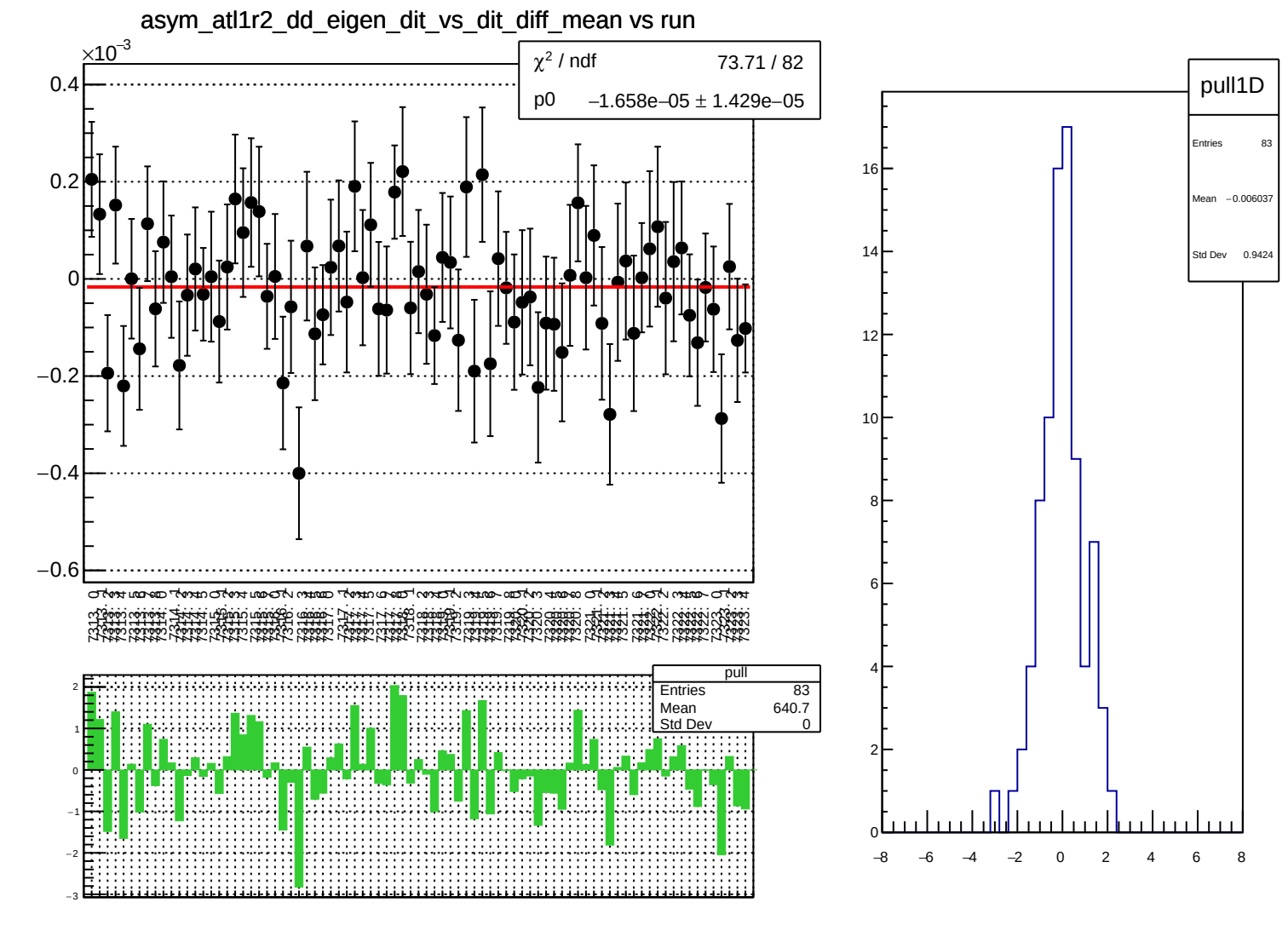

pull1D
Entries 83
Mean 0.03276
Std Dev 1.045

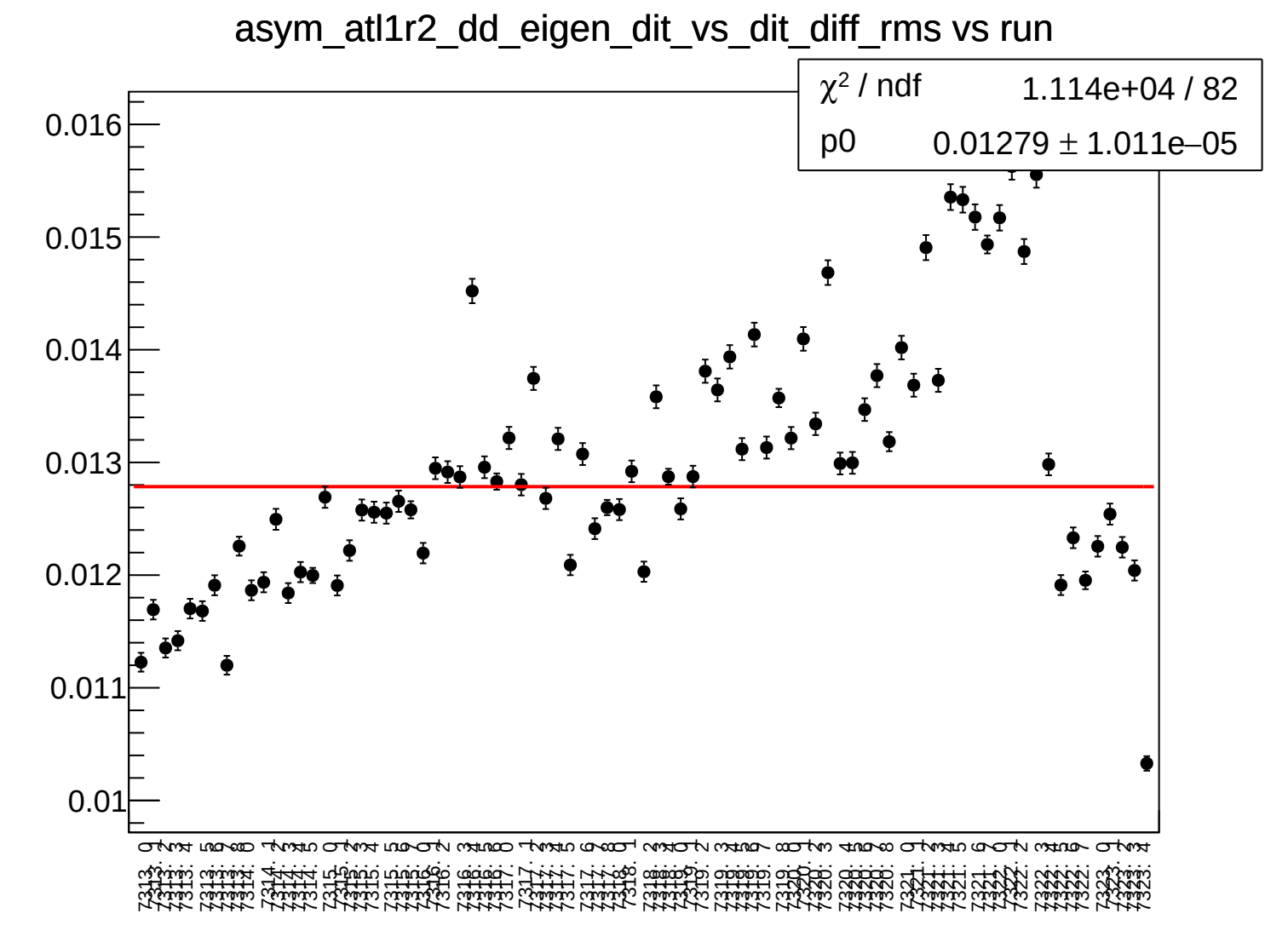

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 82
p0 194.5 ± 0.1618
550
500
450
400
350
300
250
200
150

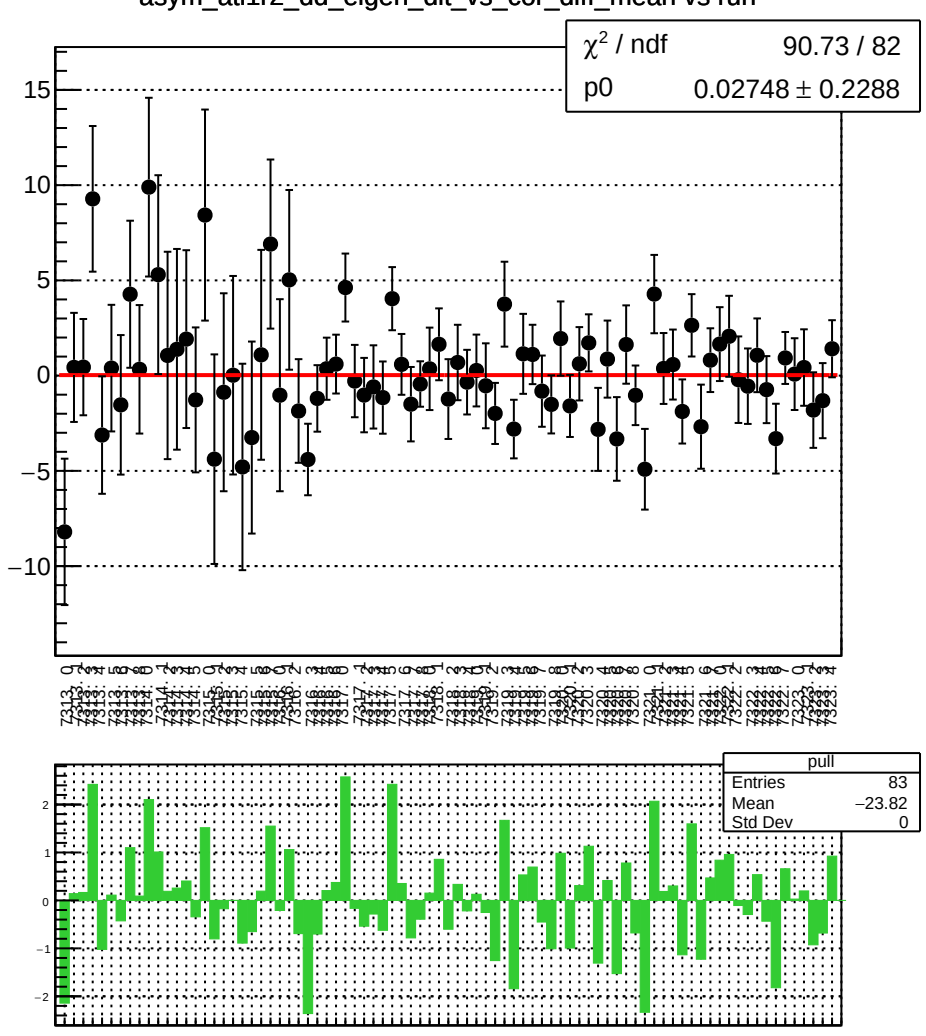

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.73 / 82
p0 0.02751 ± 0.2288
pull
Entries 83
Mean −23.82
Std Dev 0

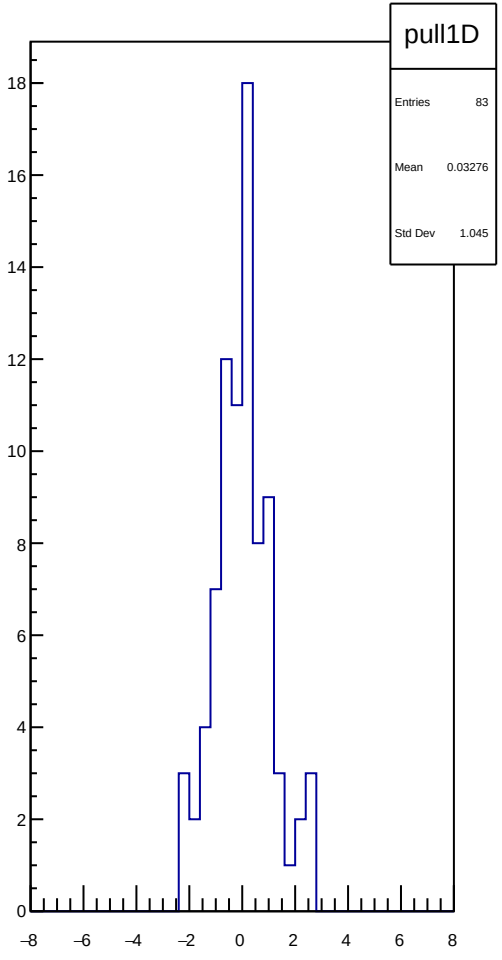

pull1D
Entries 83
Mean 0.03276
Std Dev 1.045

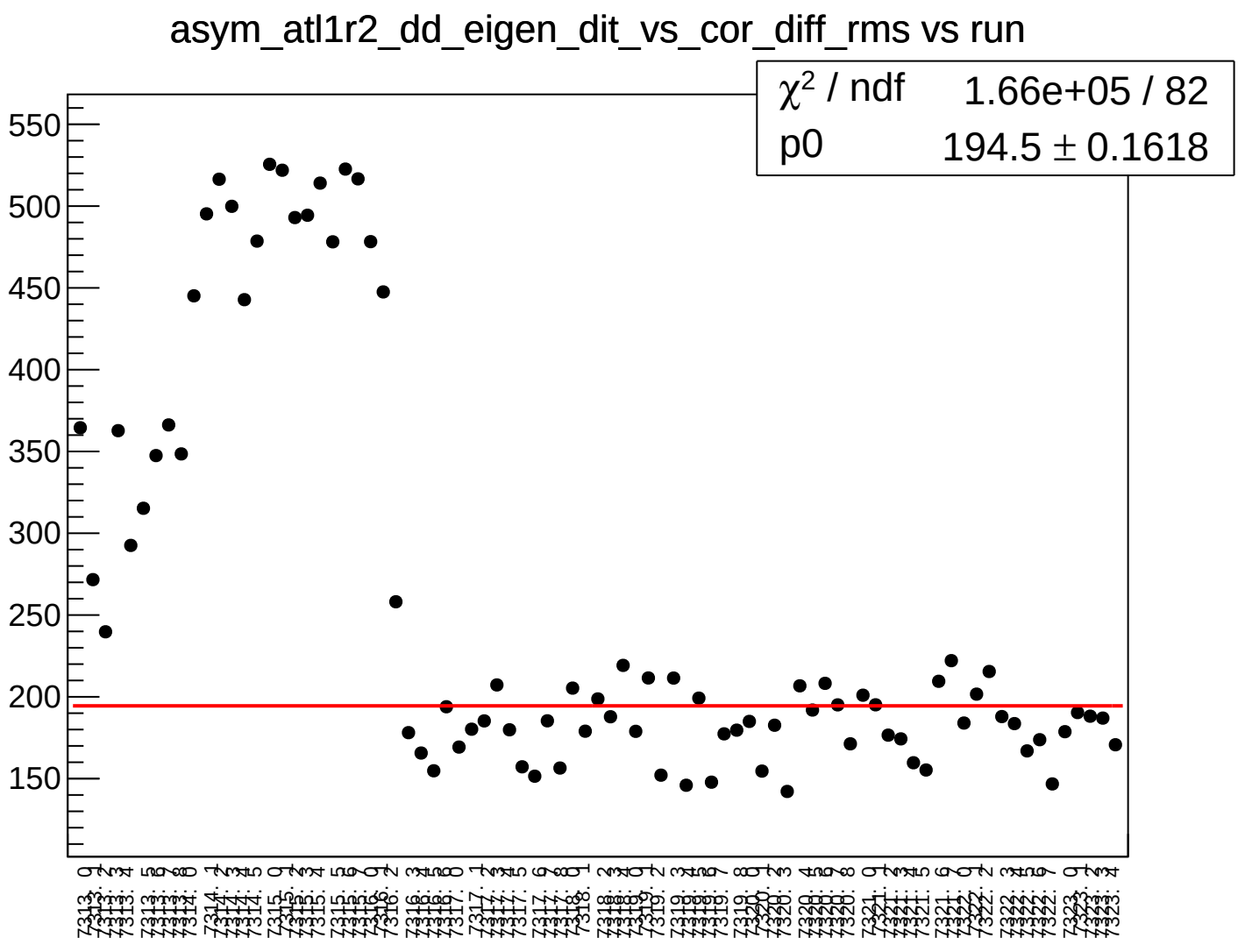

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 82
p0 194.5 ± 0.1618
550
500
450
400
350
300
250
200
150

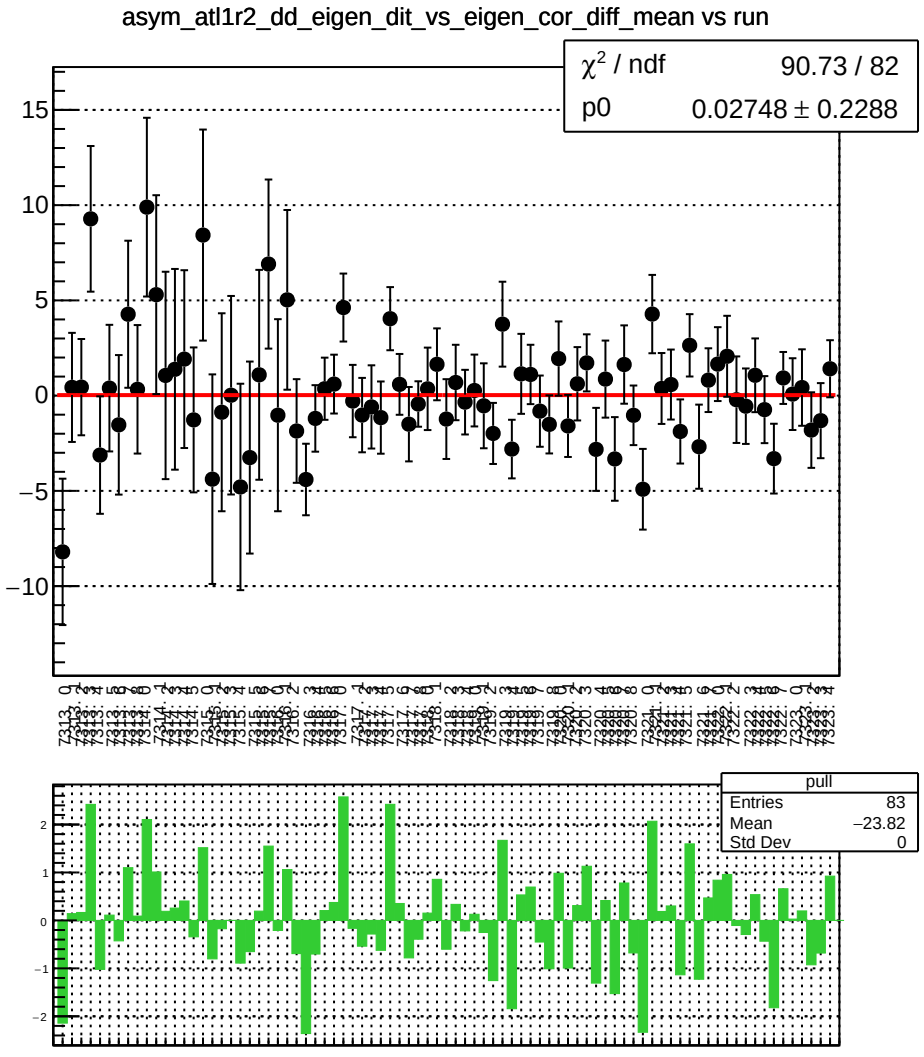

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.71 / 82
p0 −1.658e−05 ± 1.429e−05
pull
Entries 83
Mean 640.7
Std Dev 0
pull1D
Entries 83
Mean −0.006037
Std Dev 0.9424

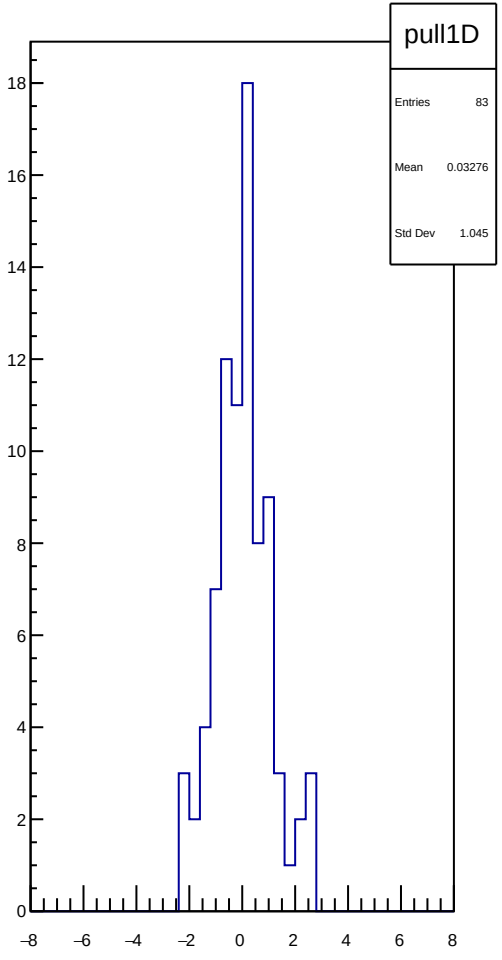

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.114e+04 / 82
p0 0.01279 ± 1.011e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01

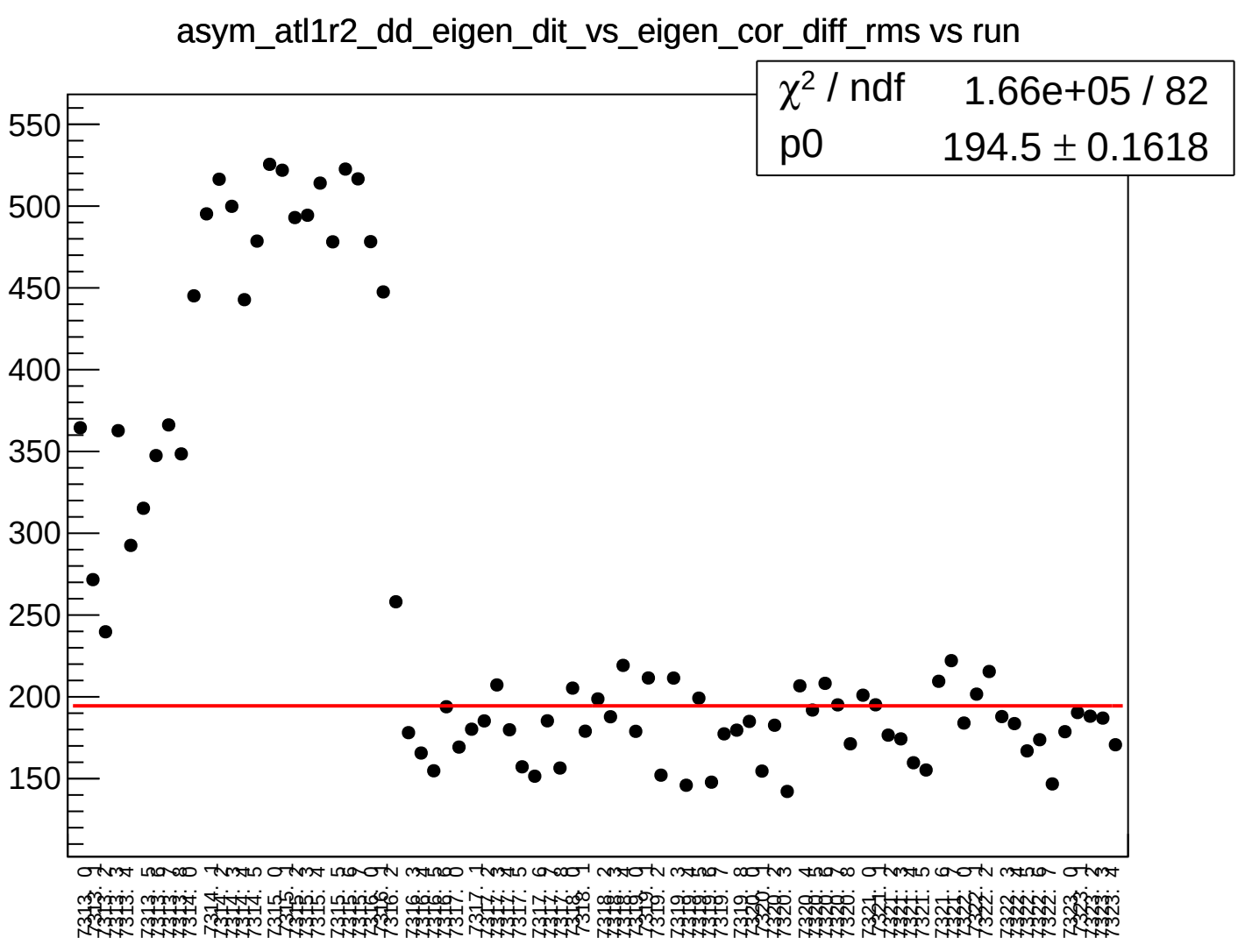

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 82
p0 0.02748 ± 0.2288
pull
Entries 83
Mean −23.82
Std Dev 0

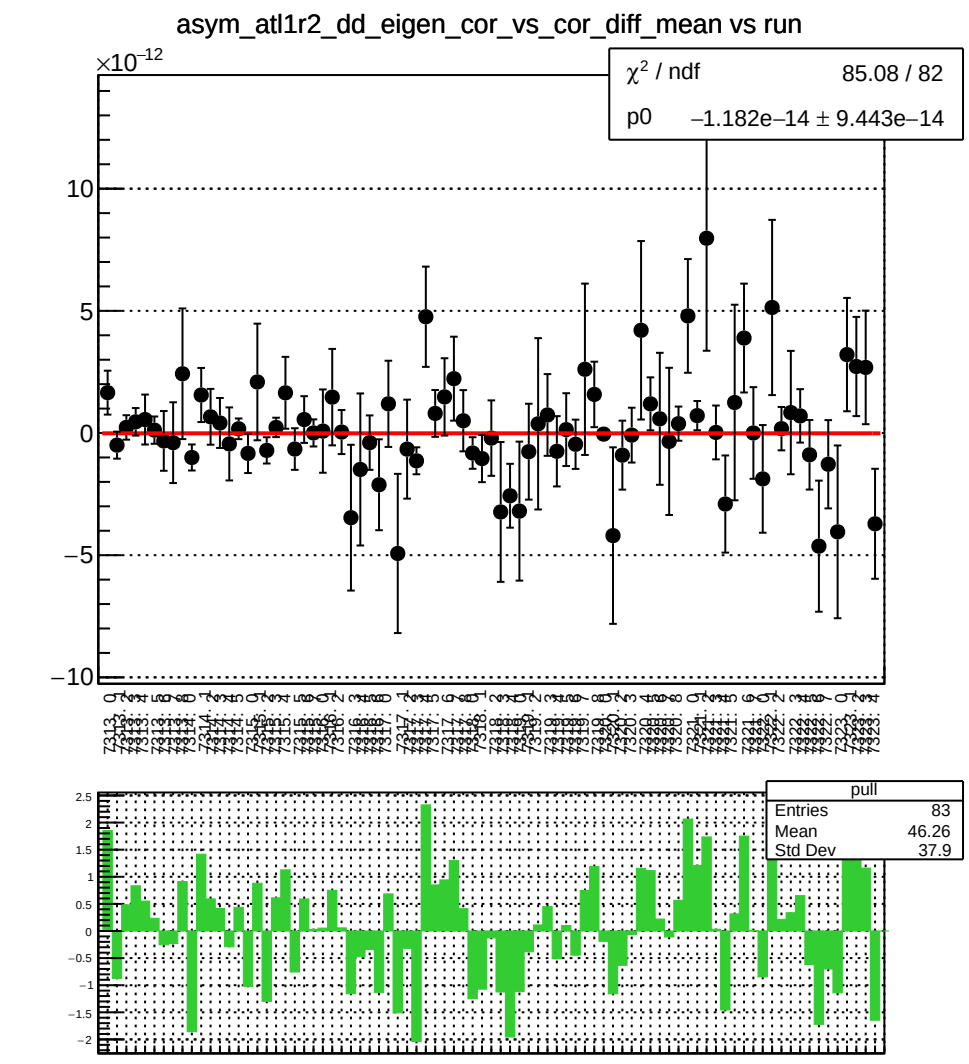

pull1D
Entries 83
Mean 0.03276
Std Dev 1.045

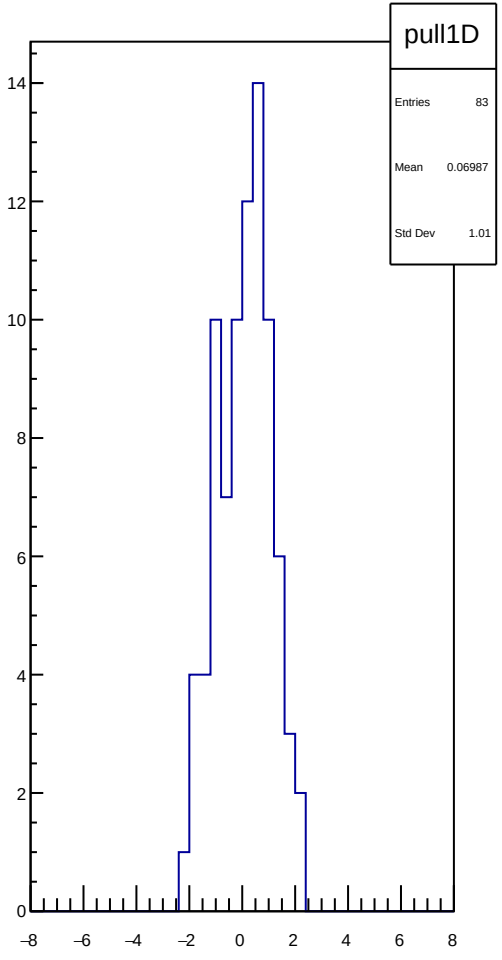

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 82
p0 194.5 ± 0.1618
550
500
450
400
350
300
250
200
150

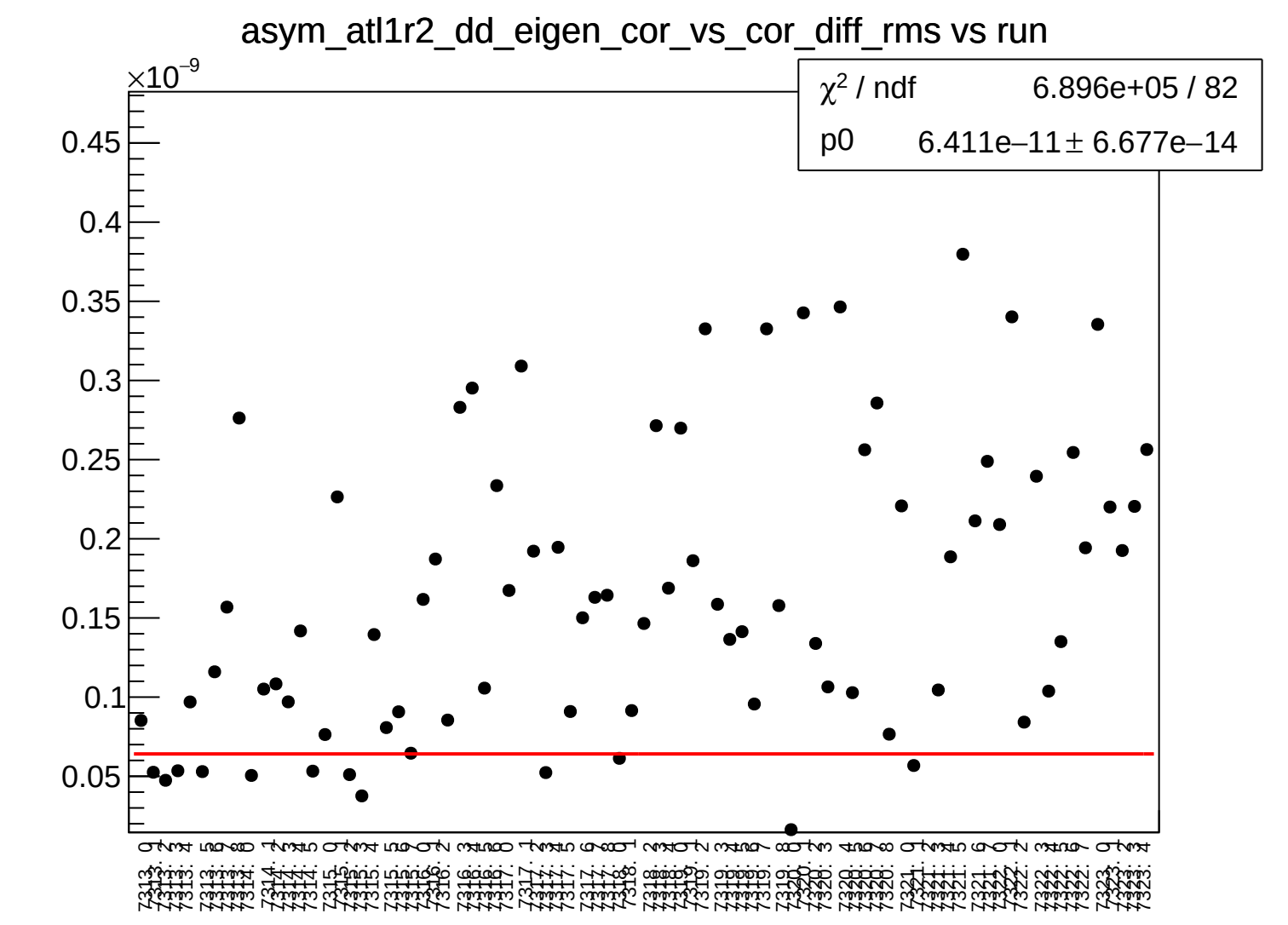

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.73 / 82
p0 0.02748 ± 0.2288
pull
Entries 83
Mean −23.82
Std Dev 0

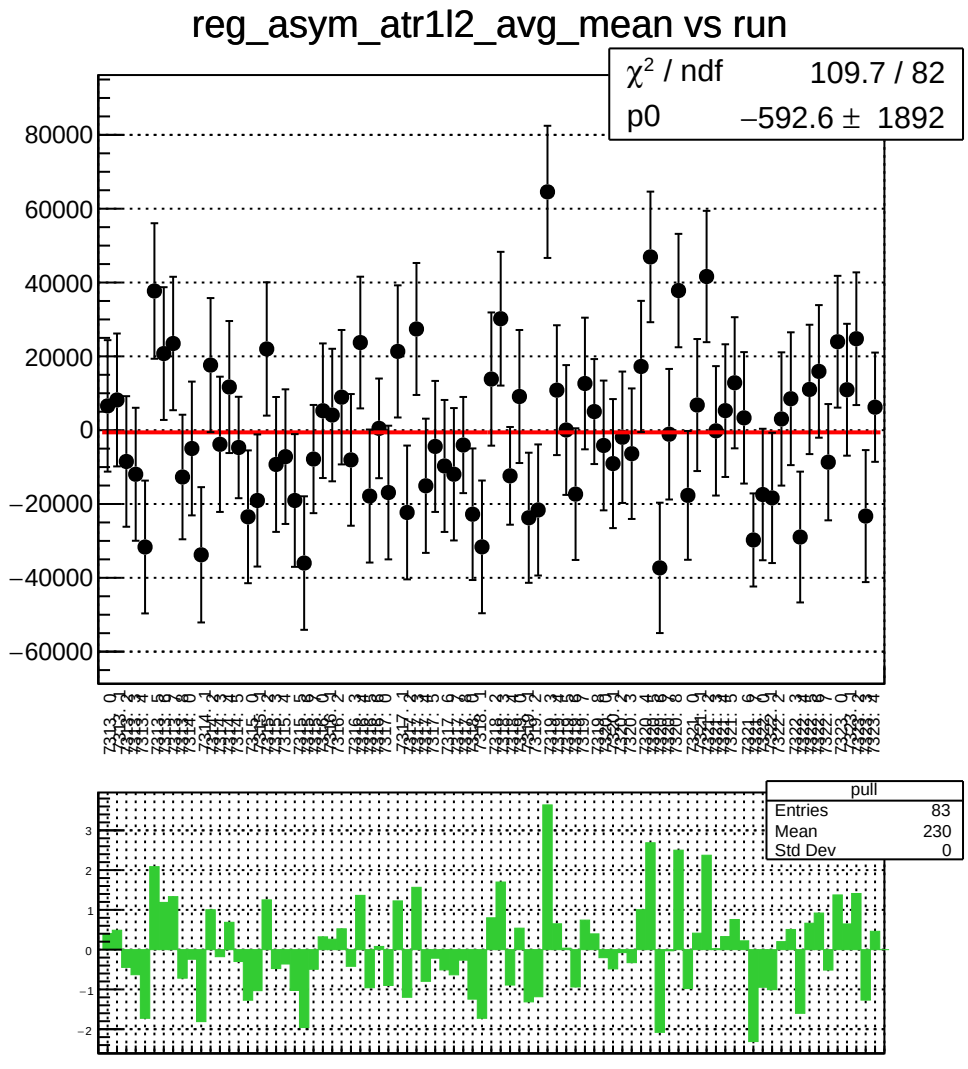

pull1D
Entries 83
Mean 0.03276
Std Dev 1.045

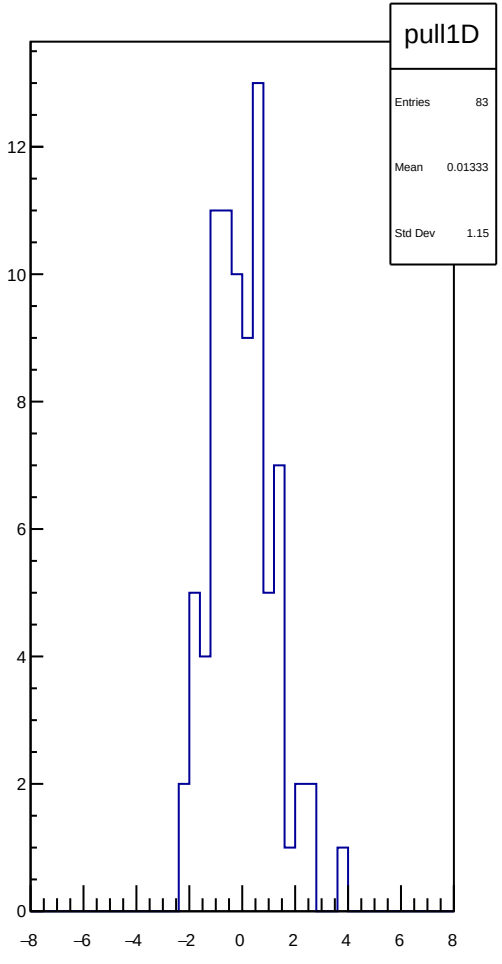

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 82
p0 194.5 ± 0.1618
550
500
450
400
350
300
250
200
150

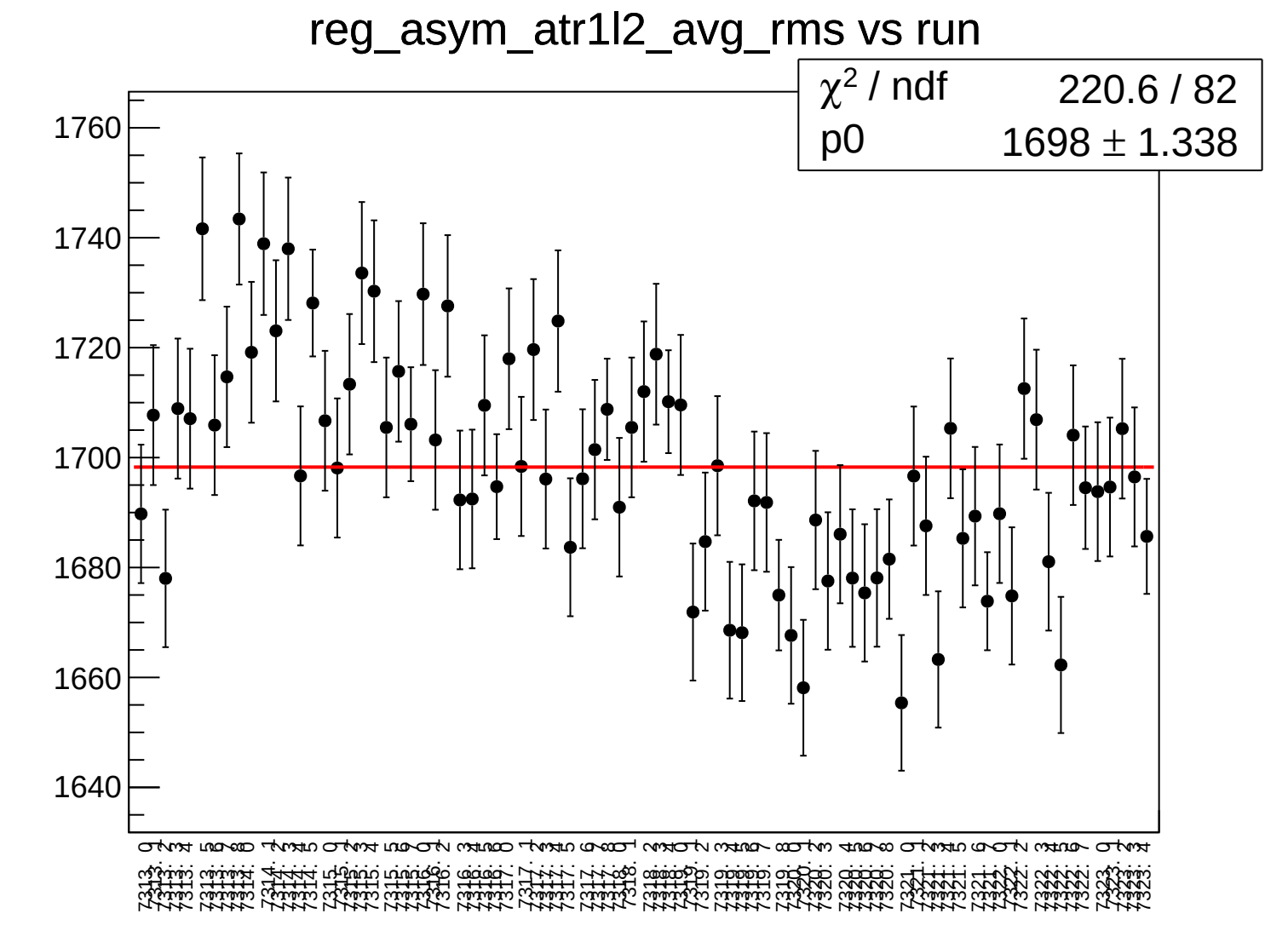

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.08 / 82
p0 −1.182e−14 ± 9.443e−14
pull
Entries 83
Mean 46.26
Std Dev 37.9

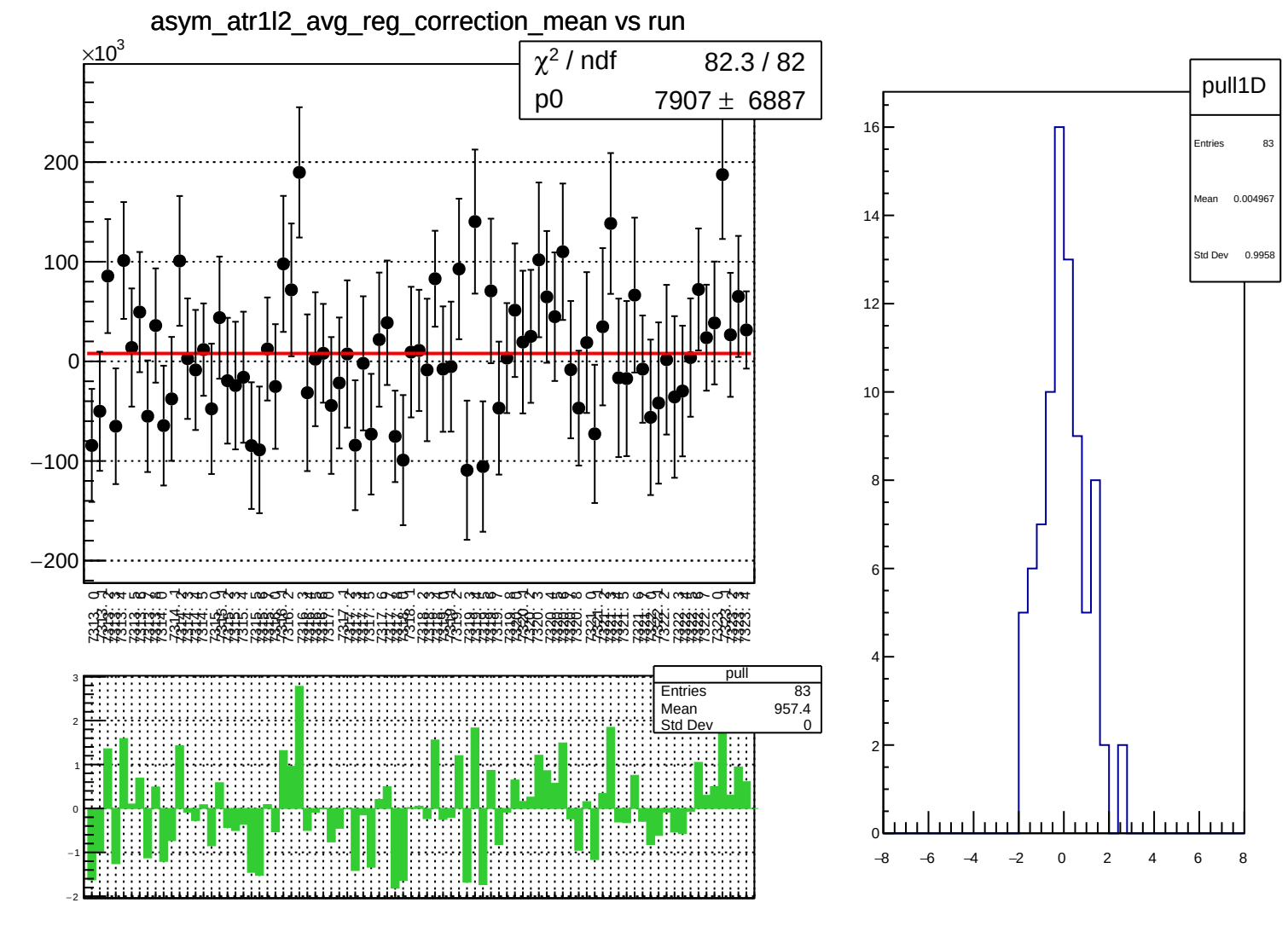

pull1D
Entries 83
Mean 0.06987
Std Dev 1.01

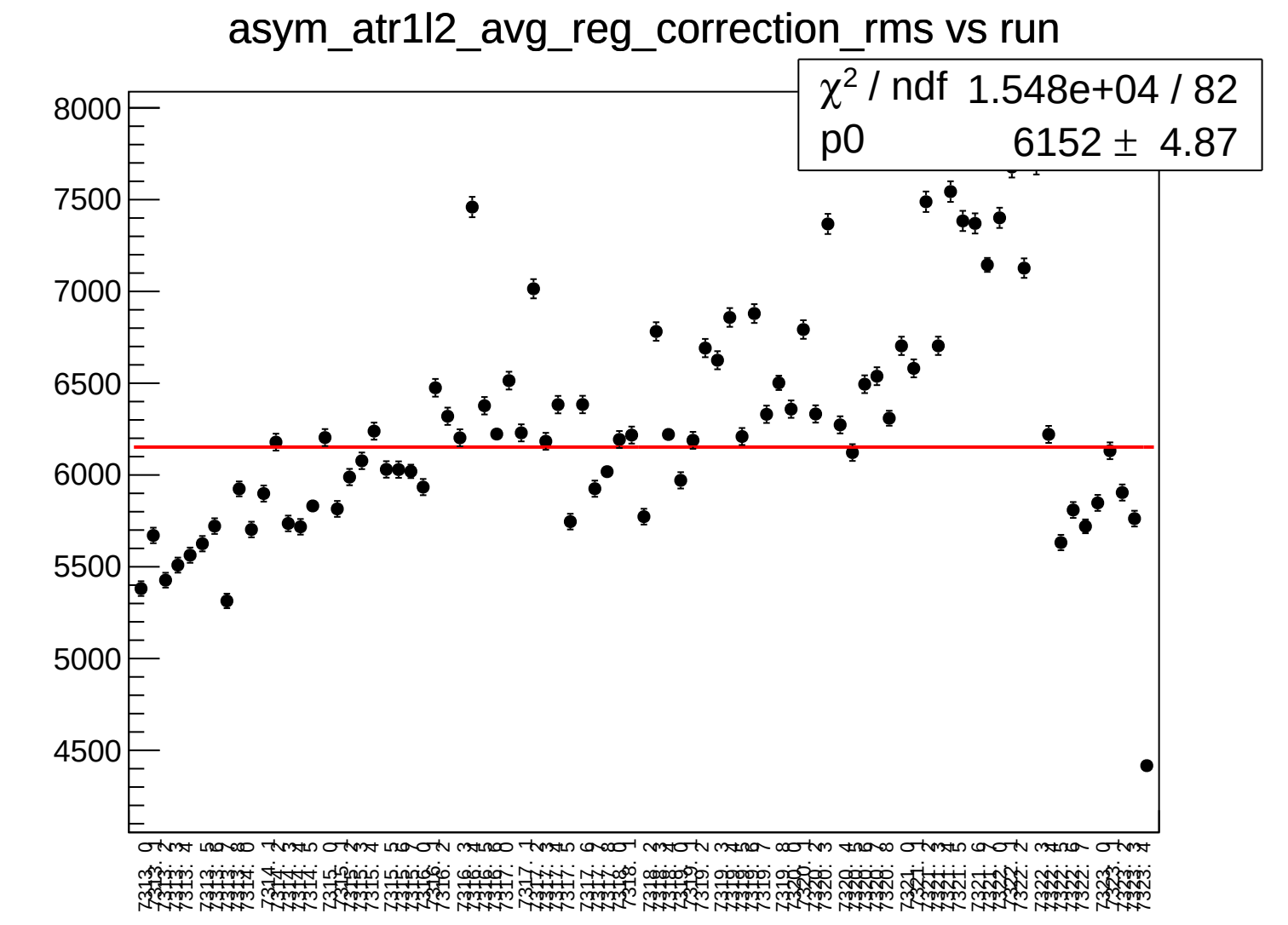

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.896e+05 / 82
p0 6.411e−11 ± 6.677e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

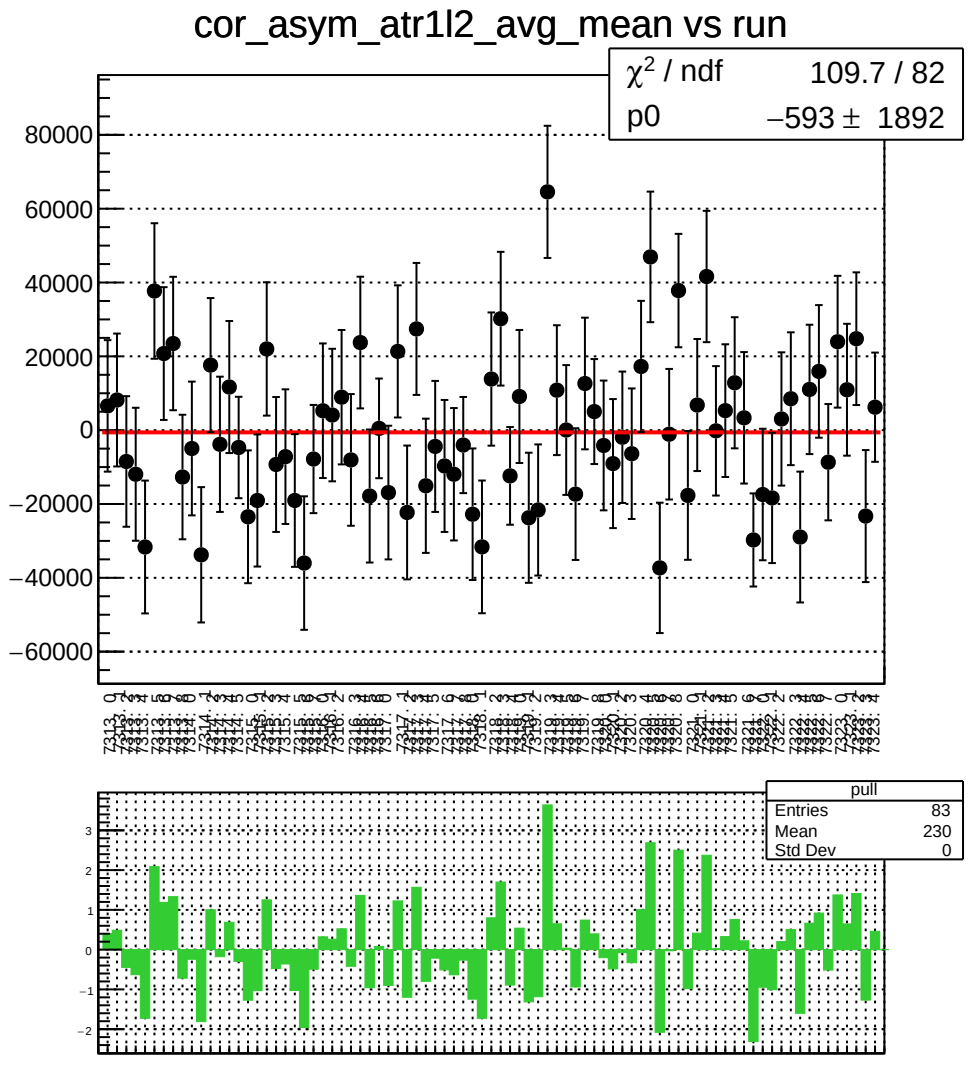

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 109.7 / 82
p0 −592.6 ± 1892
pull
Entries 83
Mean 230
Std Dev 0

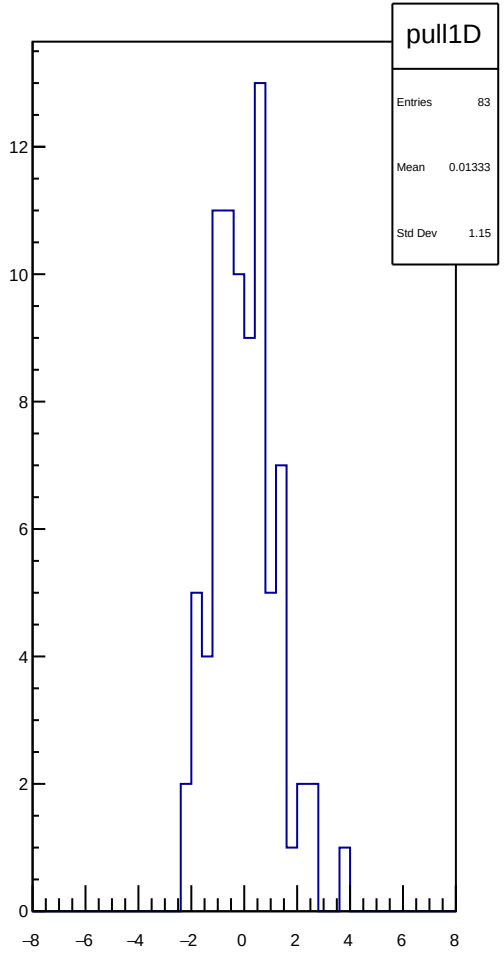

pull1D
Entries 83
Mean 0.01333
Std Dev 1.15

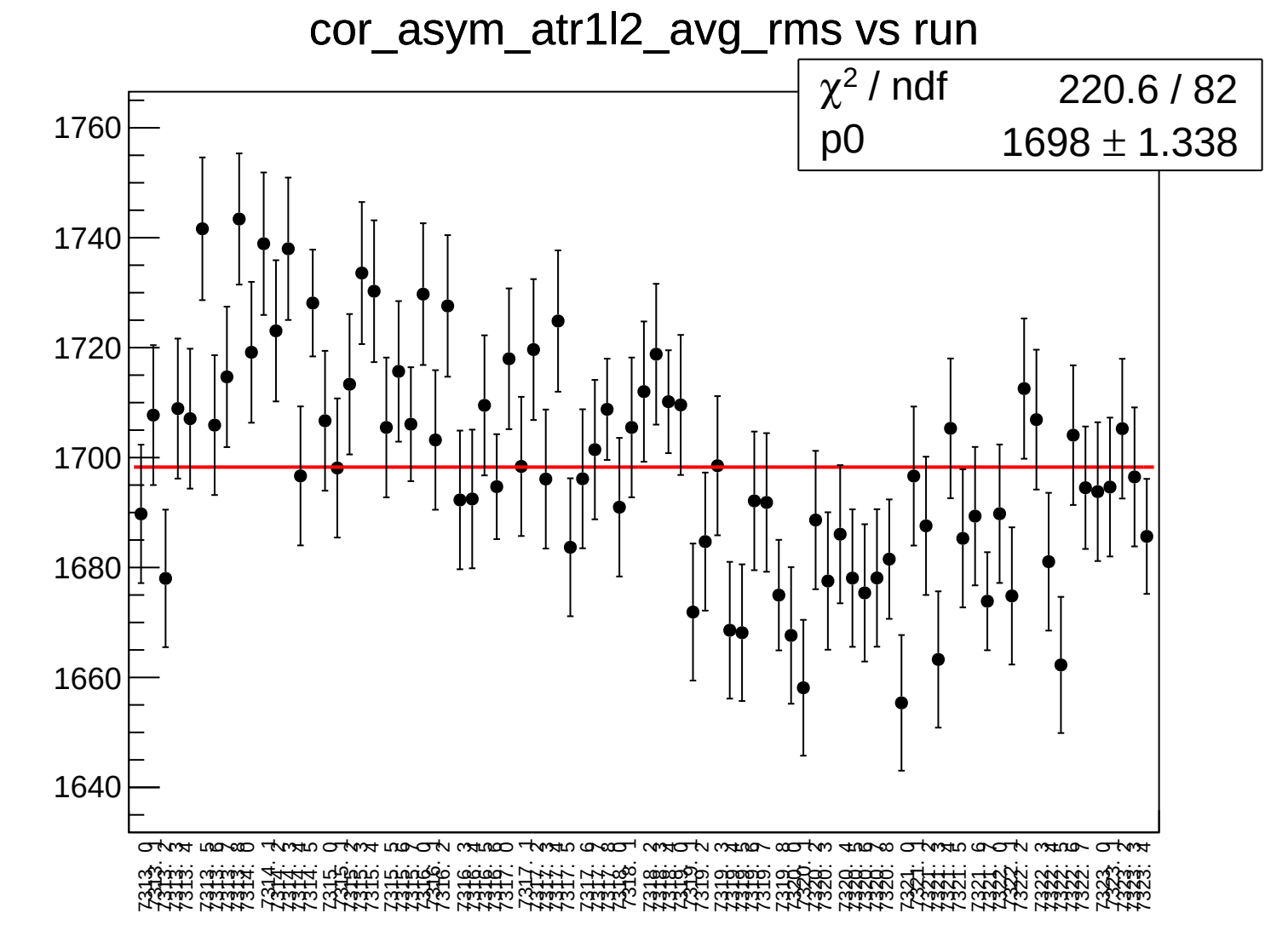

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 220.6 / 82
p0 1698 ± 1.338
1760
1740
1720
1700
1680
1660
1640

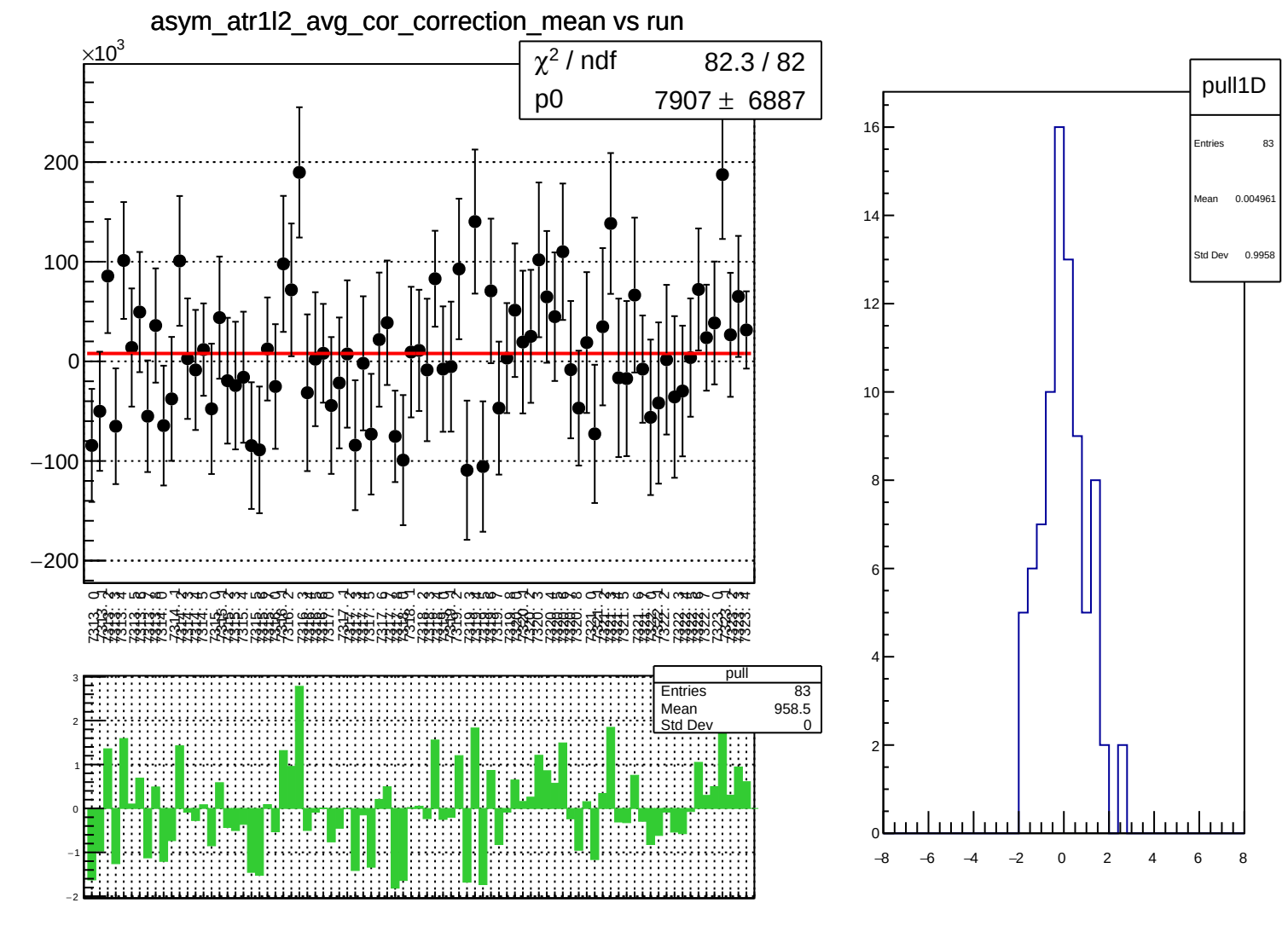

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.3 / 82
p0 7907 ± 6887
200
100
0
−100
−200
pull
Entries 83
Mean 957.4
Std Dev 0
pull1D
Entries 83
Mean 0.004967
Std Dev 0.9958

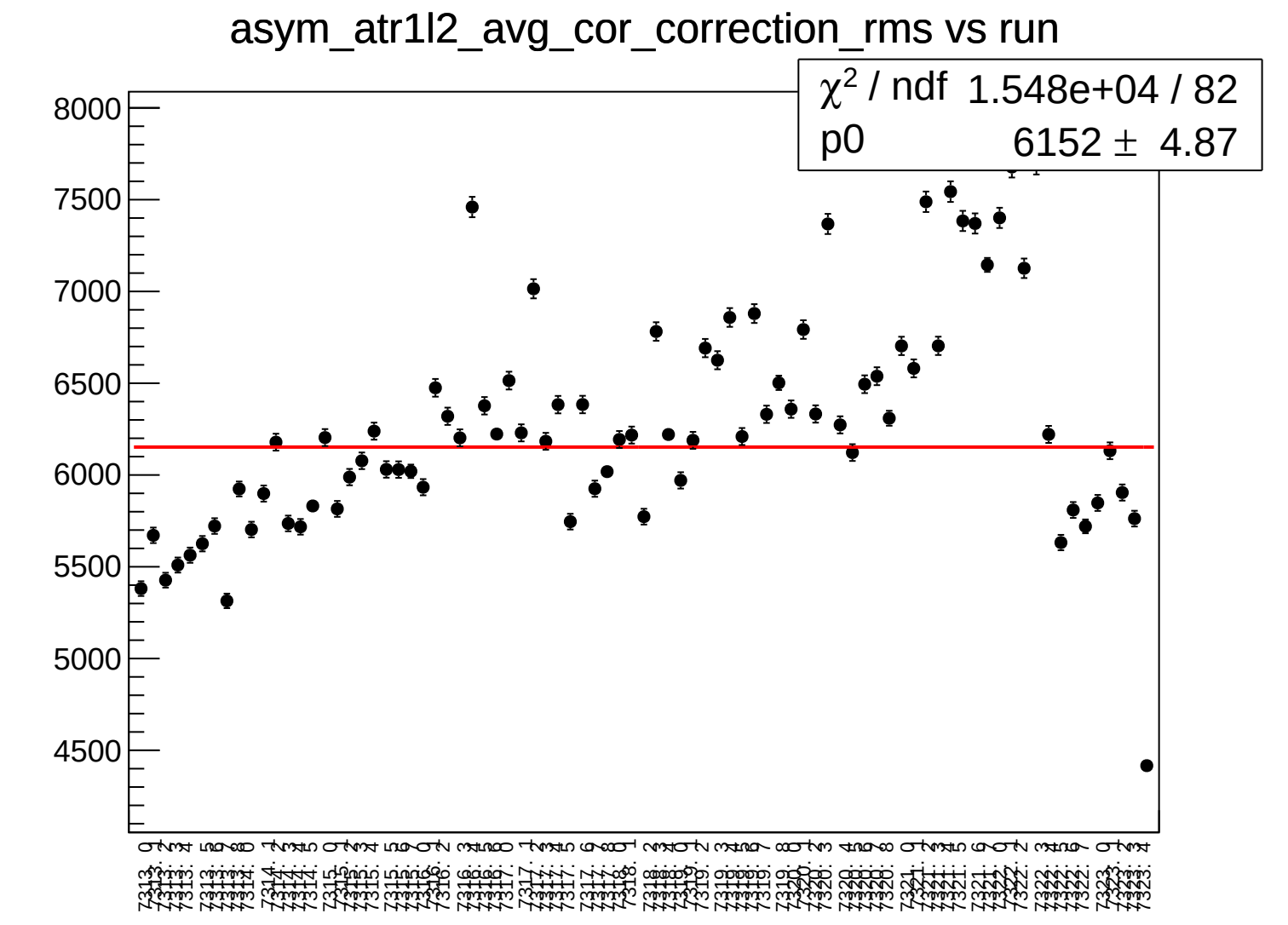

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.548e+04 / 82
p0 6152 ± 4.87
8000
7500
7000
6500
6000
5500
5000
4500

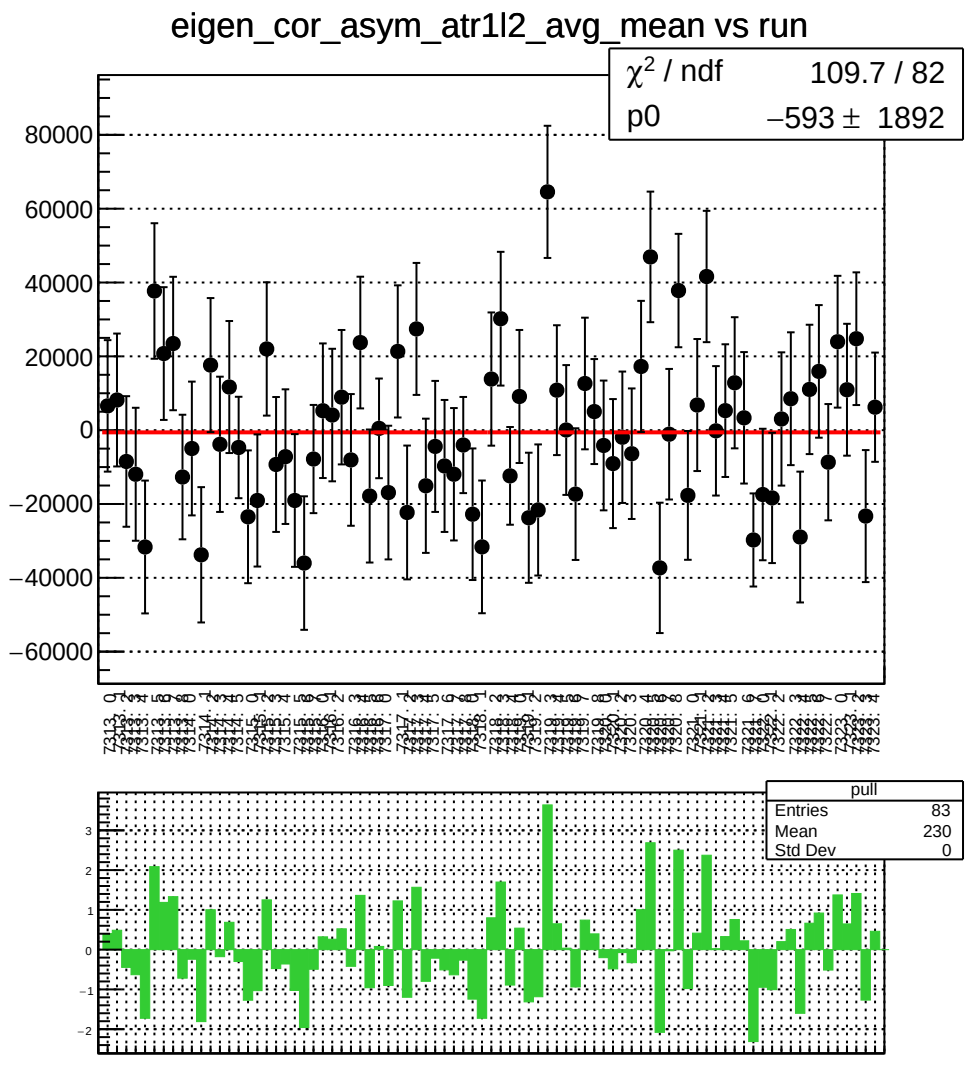

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 109.7 / 82
p0 −593 ± 1892
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 230
Std Dev 0
3
2
1
0
−1
−2

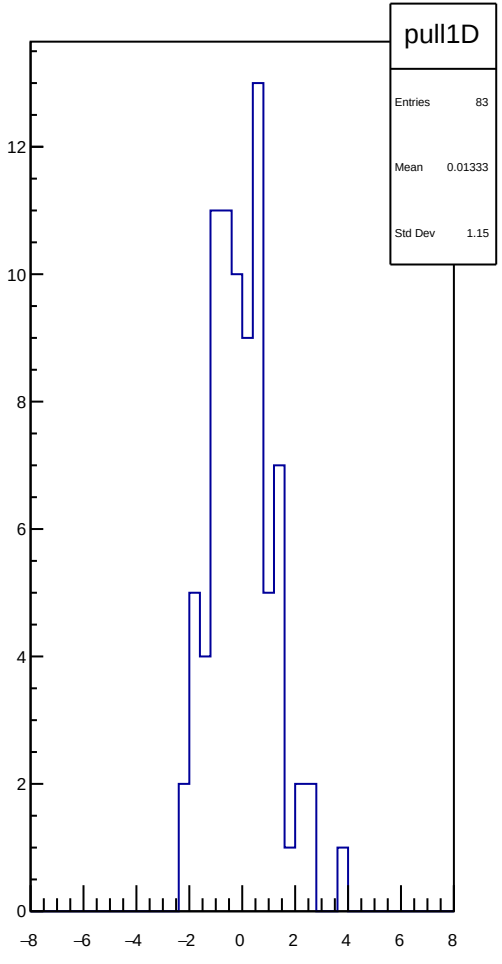

pull1D
Entries 83
Mean 0.01333
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

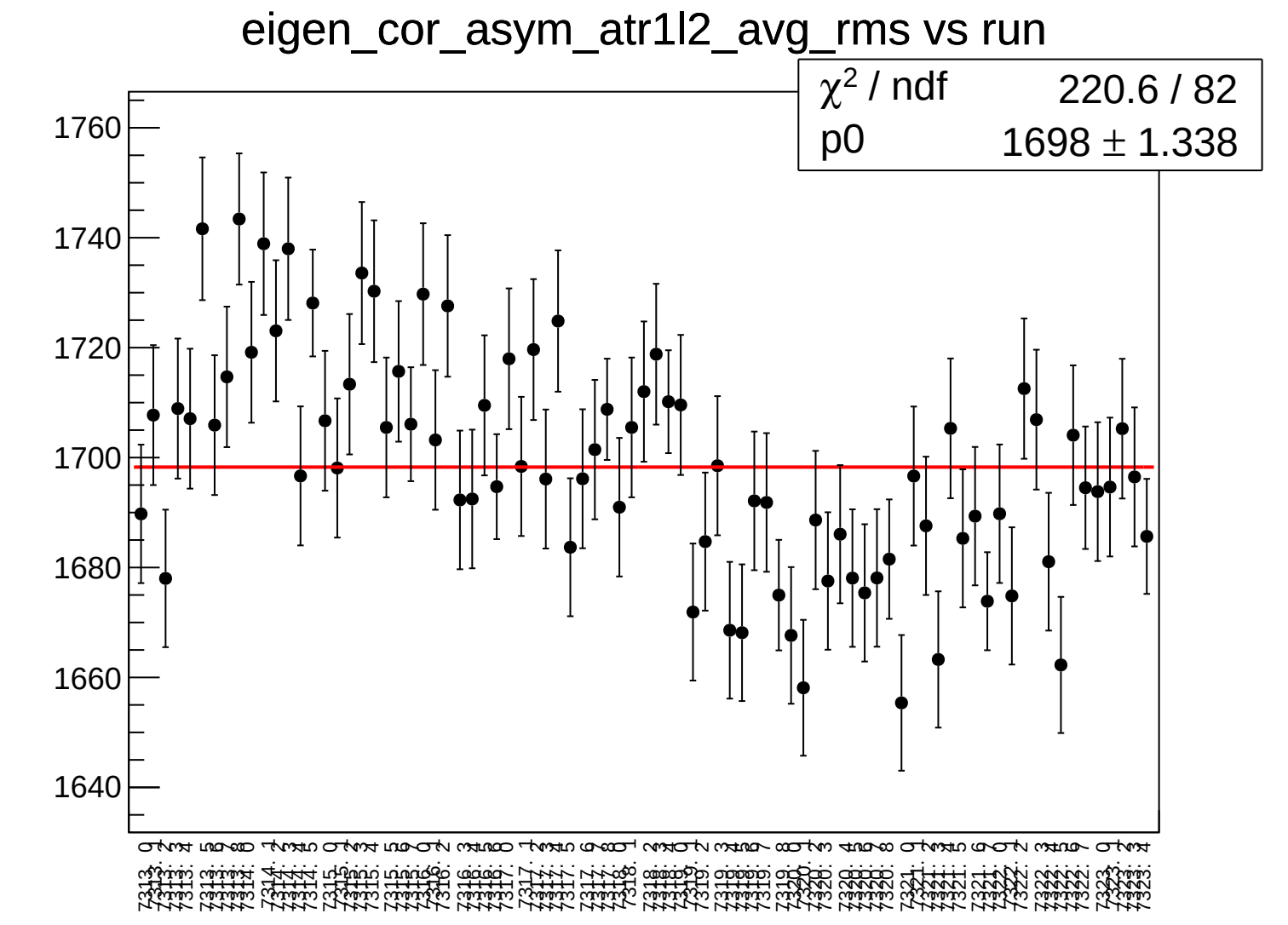

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 220.6 / 82
p0 1698 ± 1.338
1760
1740
1720
1700
1680
1660
1640

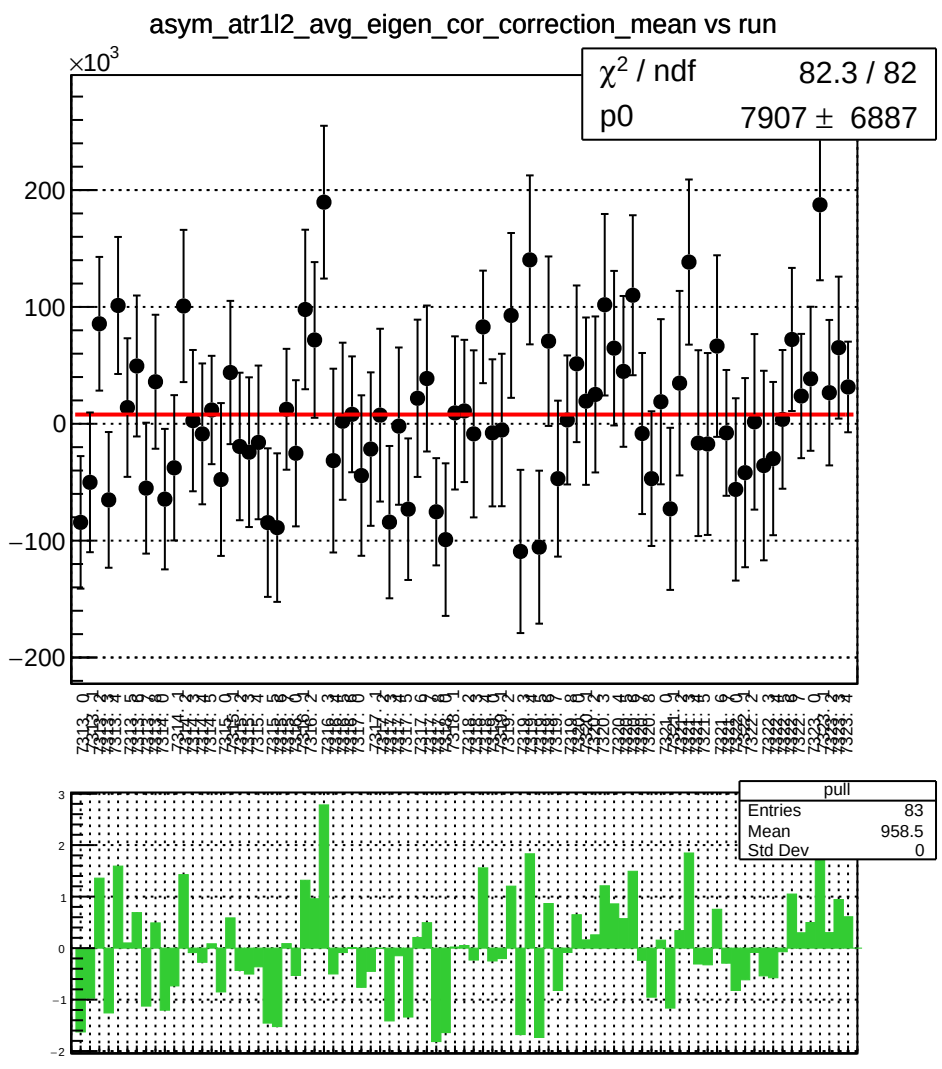

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.3 / 82
p0 7907 ± 6887
200
100
0
−100
−200
pull
Entries 83
Mean 958.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.004961
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

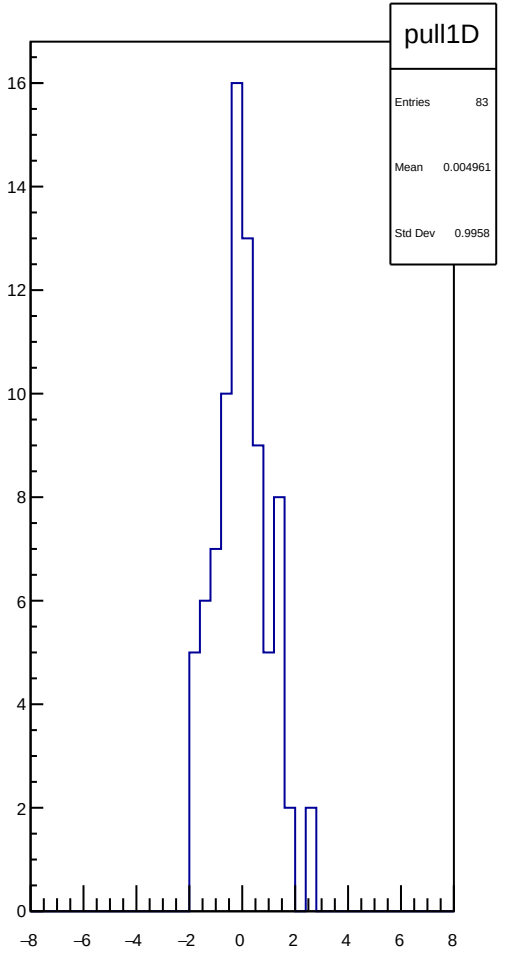

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.548e+04 / 82
p0 6152 ± 4.87
8000
7500
7000
6500
6000
5500
5000
4500

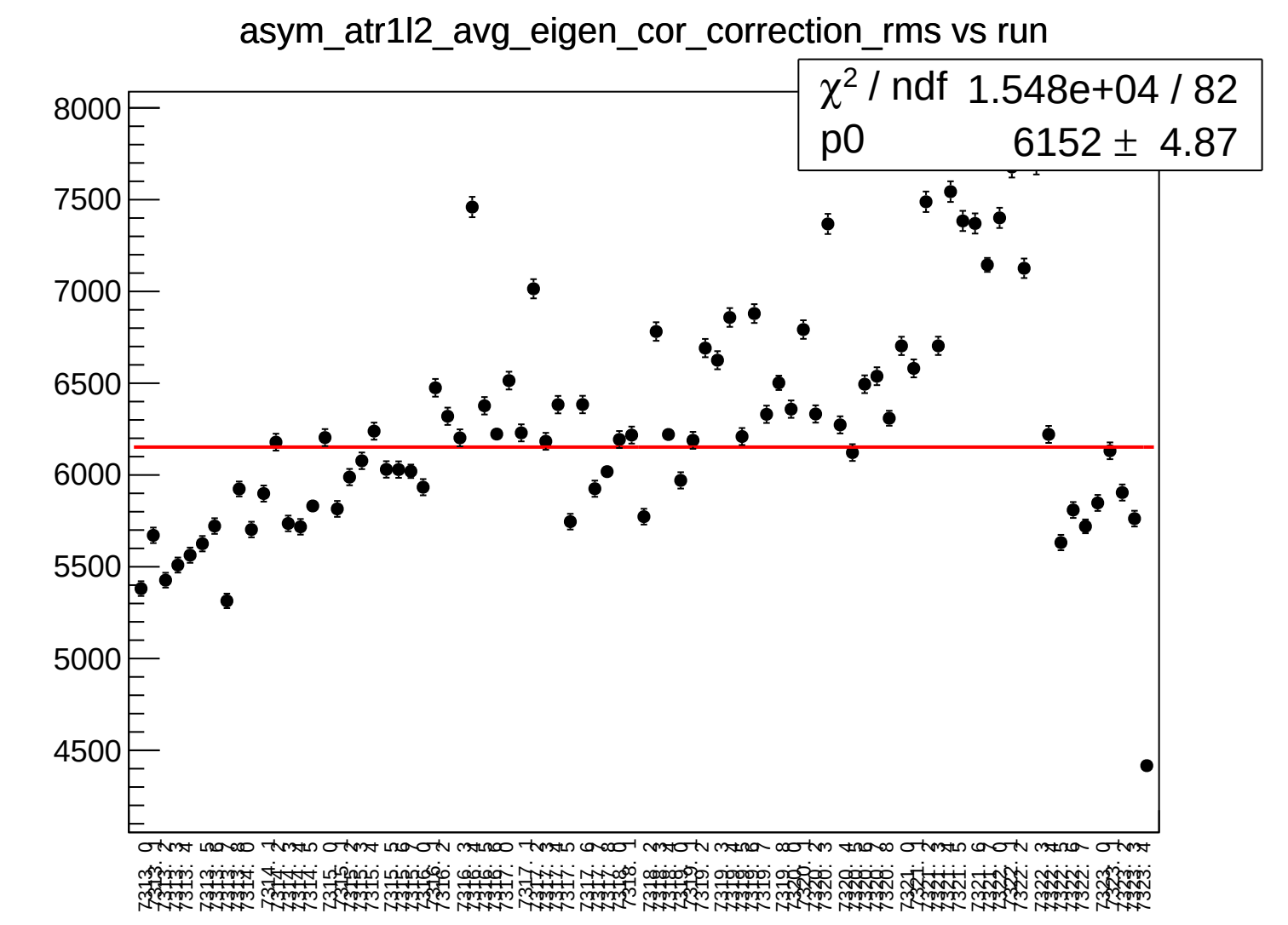

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 109.7 / 82
p0 −593 ± 1892
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 230
Std Dev 0
3
2
1
0
−1
−2

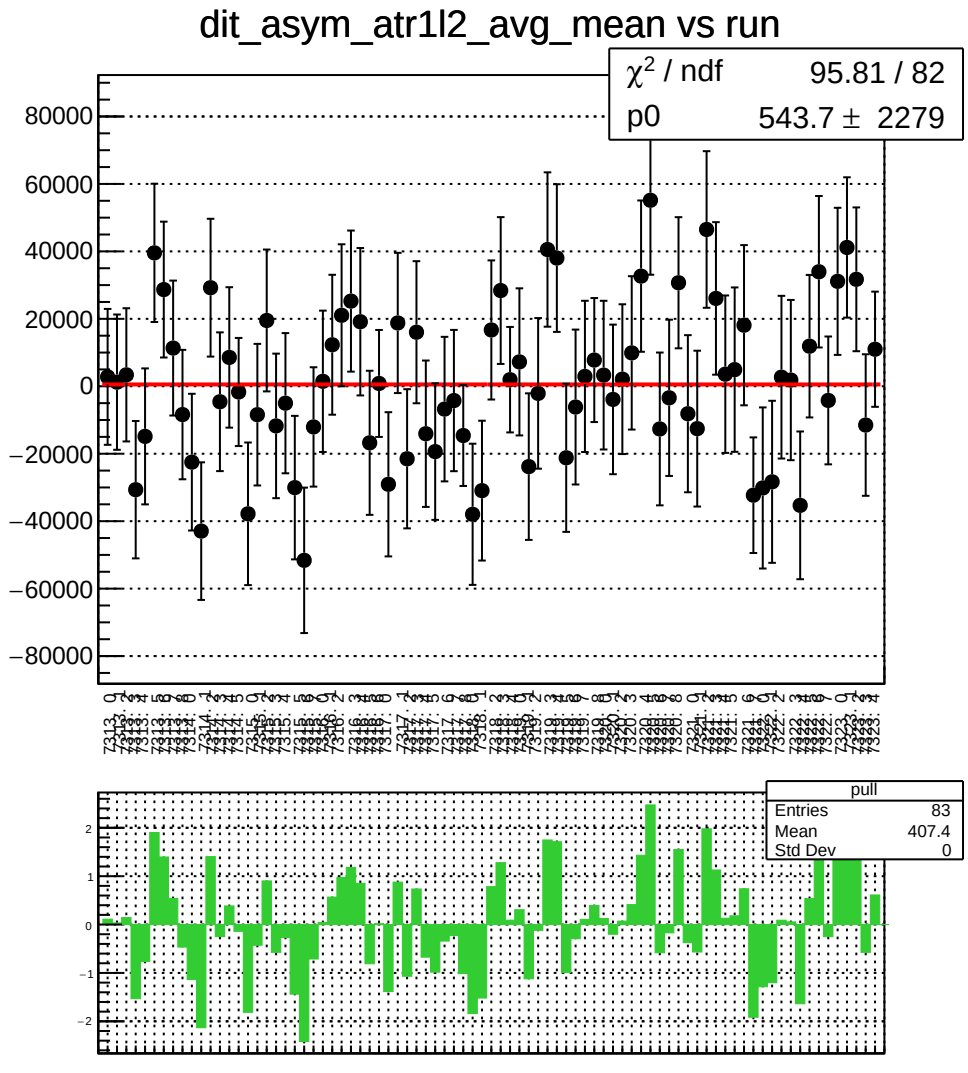

pull1D
Entries 83
Mean 0.01333
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

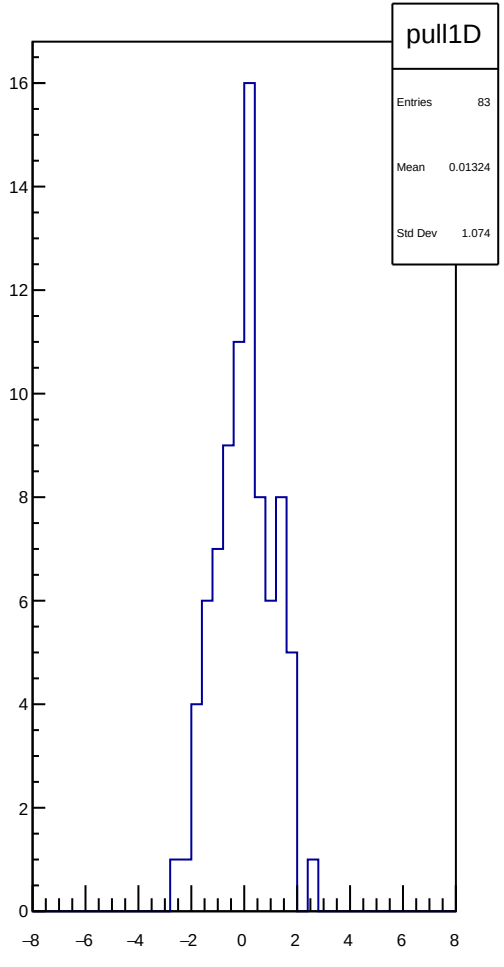

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 220.6 / 82
p0 1698 ± 1.338
1760
1740
1720
1700
1680
1660
1640

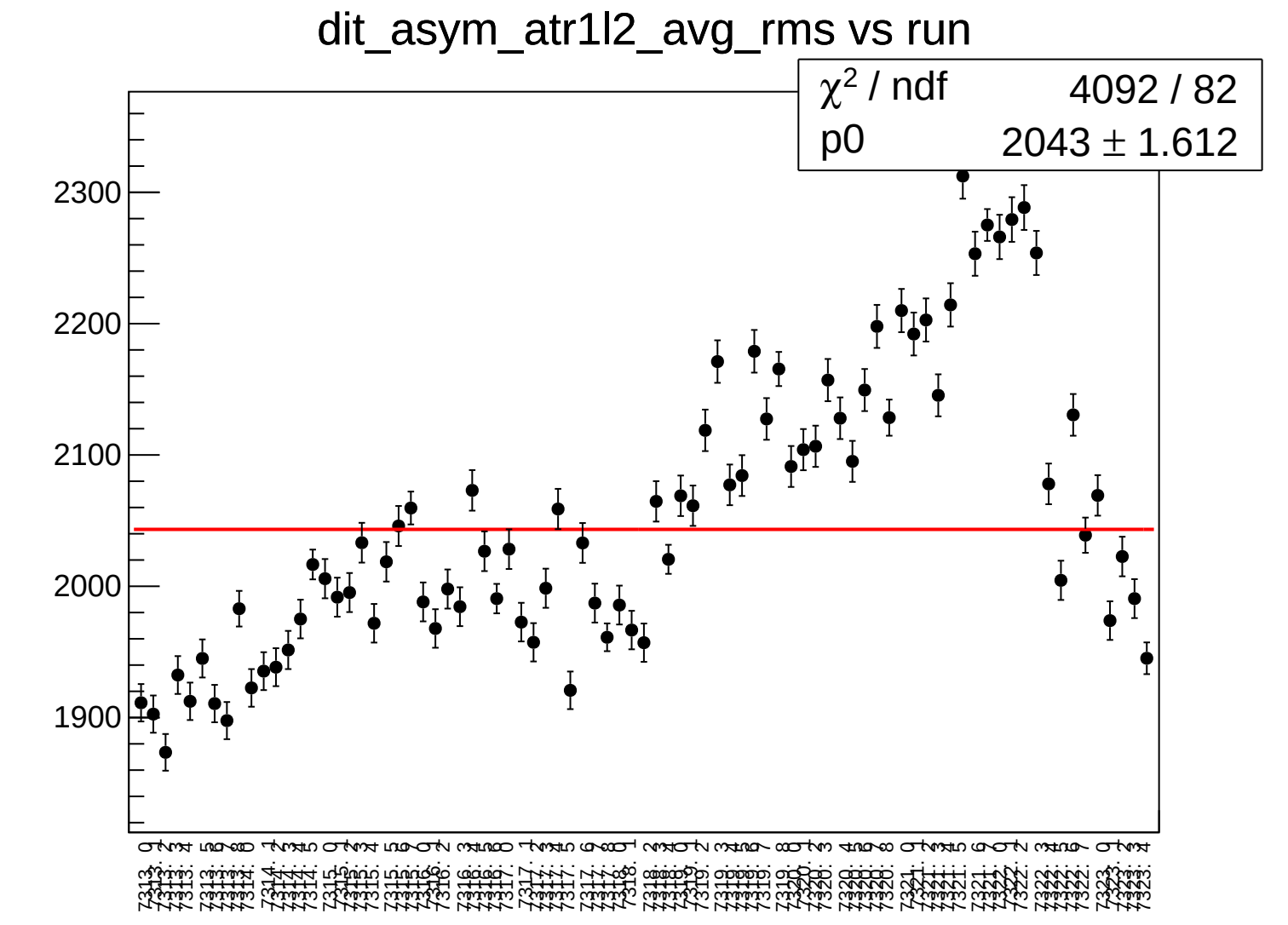

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 82
p0 7907 ± 6887
200
100
0
−100
−200
pull
Entries 83
Mean 958.5
Std Dev 0
3
2
1
0
−1
−2

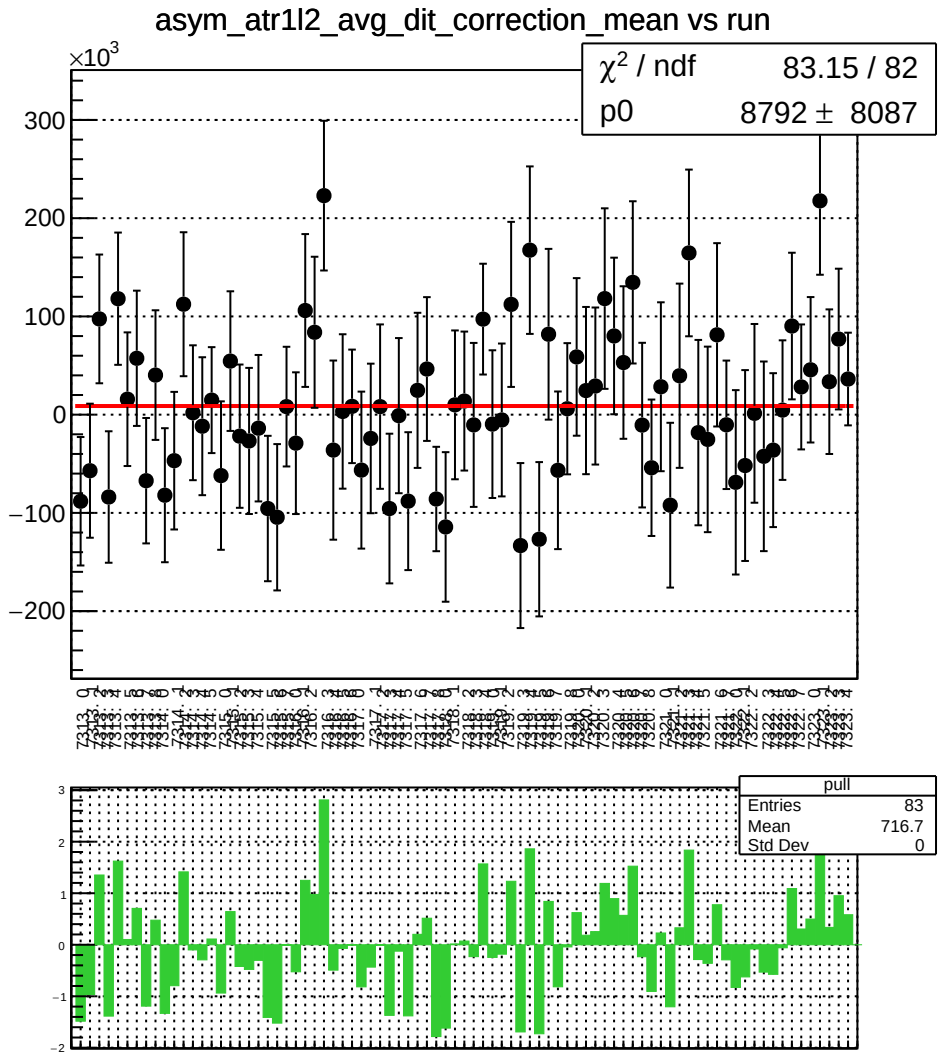

pull1D
Entries 83
Mean 0.004961
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

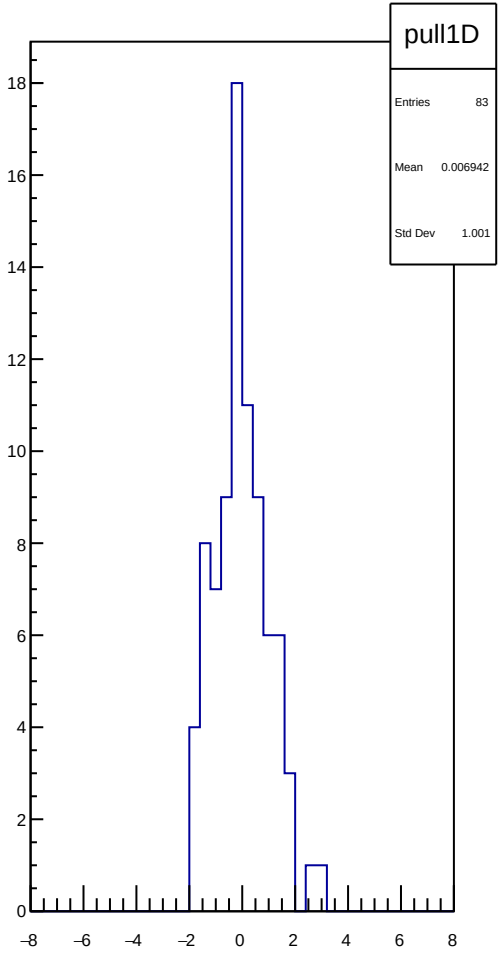

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.548e+04 / 82
p0 6152 ± 4.87
8000
7500
7000
6500
6000
5500
5000
4500

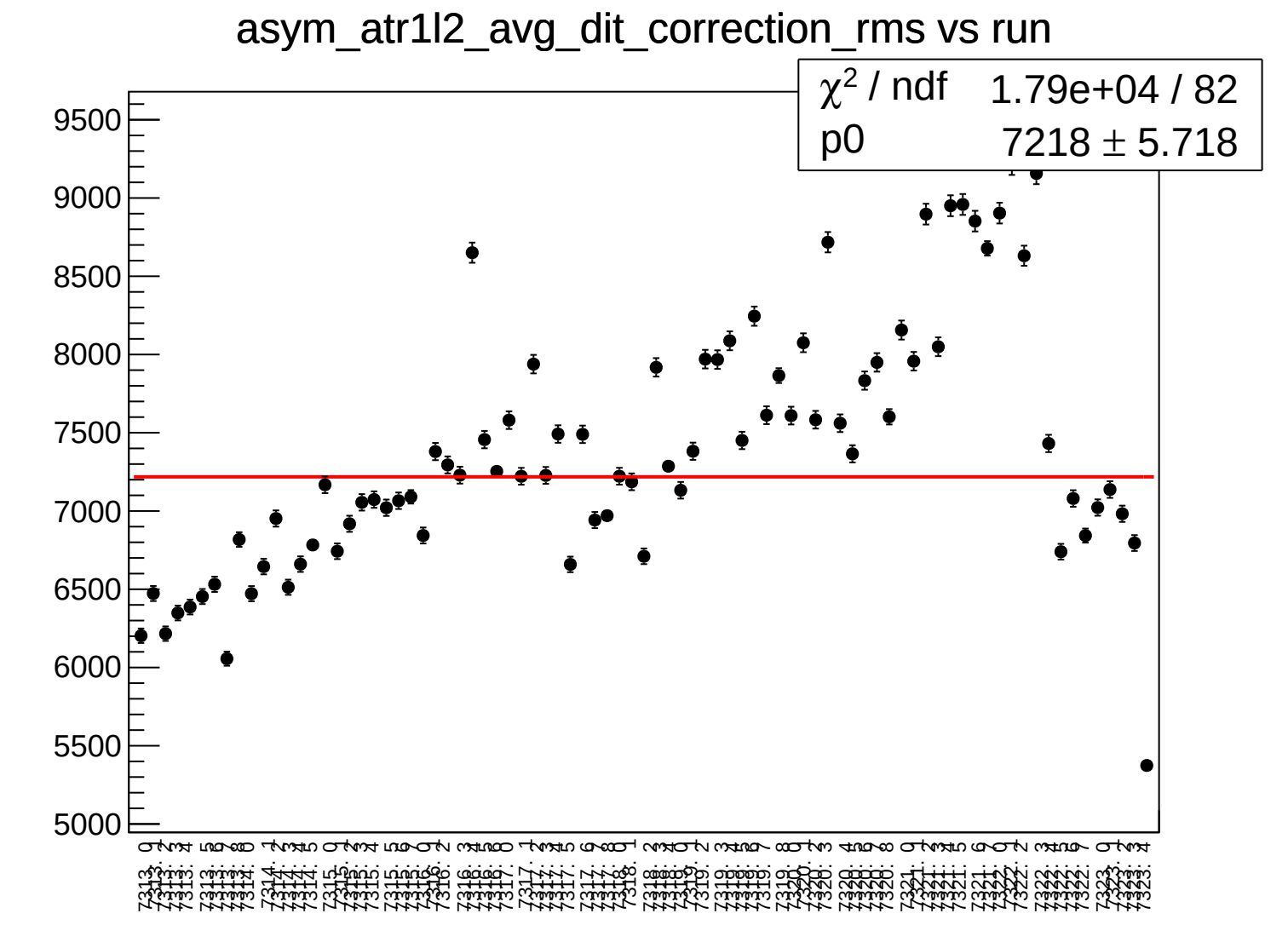

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.81 / 82
p0 543.7 ± 2279
pull
Entries 83
Mean 407.4
Std Dev 0

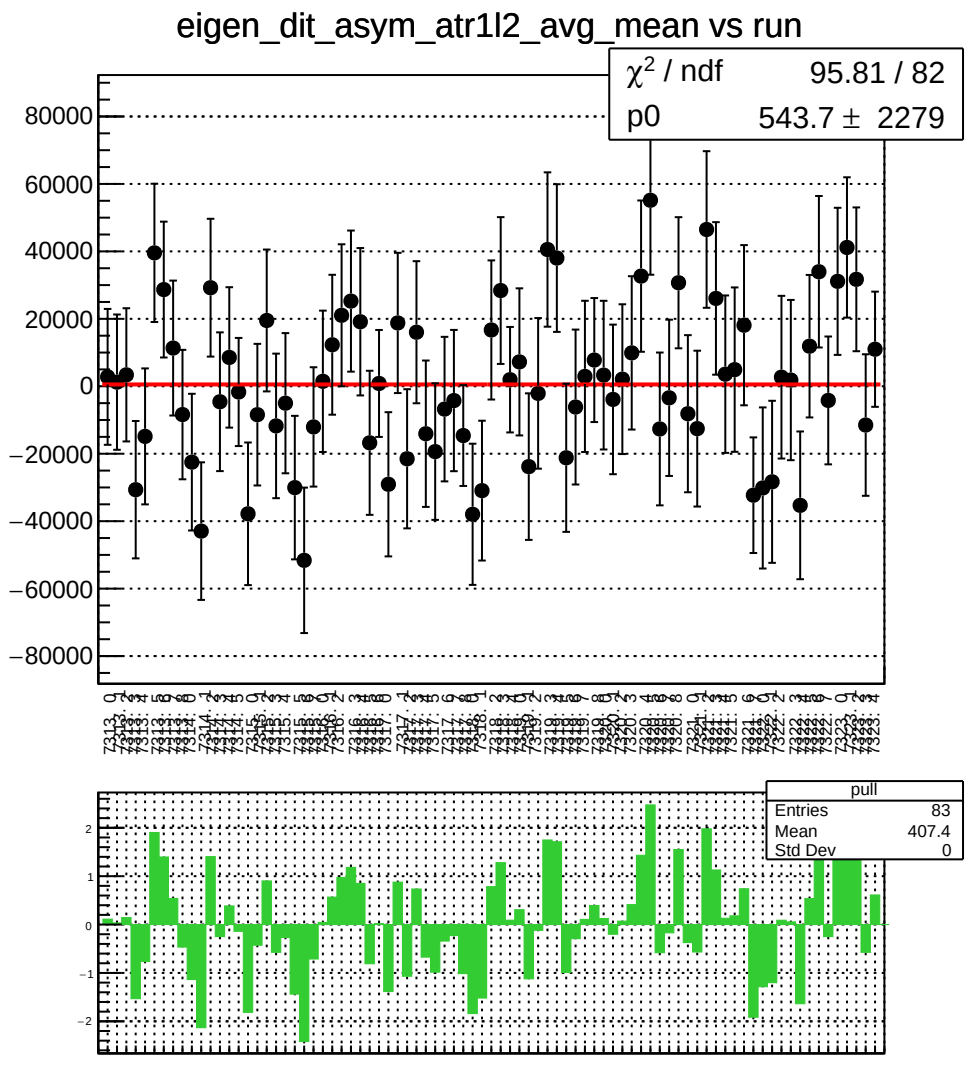

pull1D
Entries 83
Mean 0.01324
Std Dev 1.074

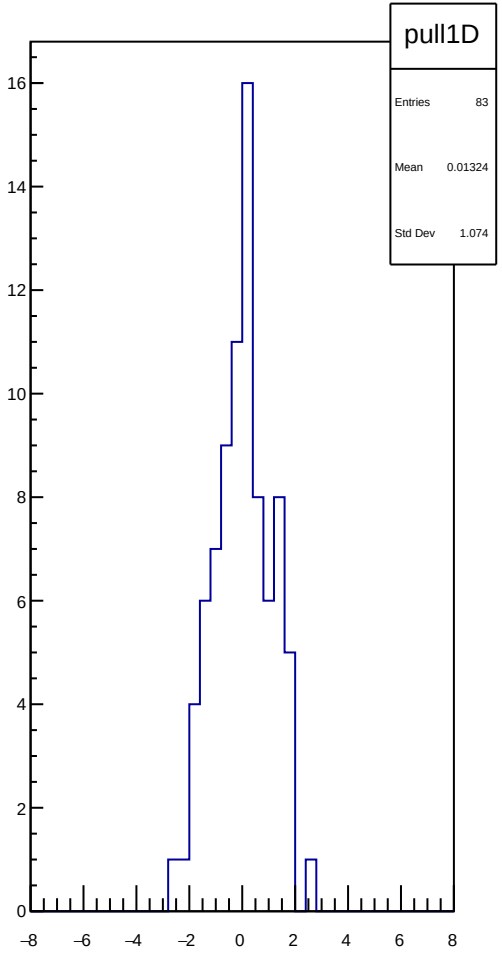

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 4092 / 82
p0 2043 ± 1.612
2300
2200
2100
2000
1900

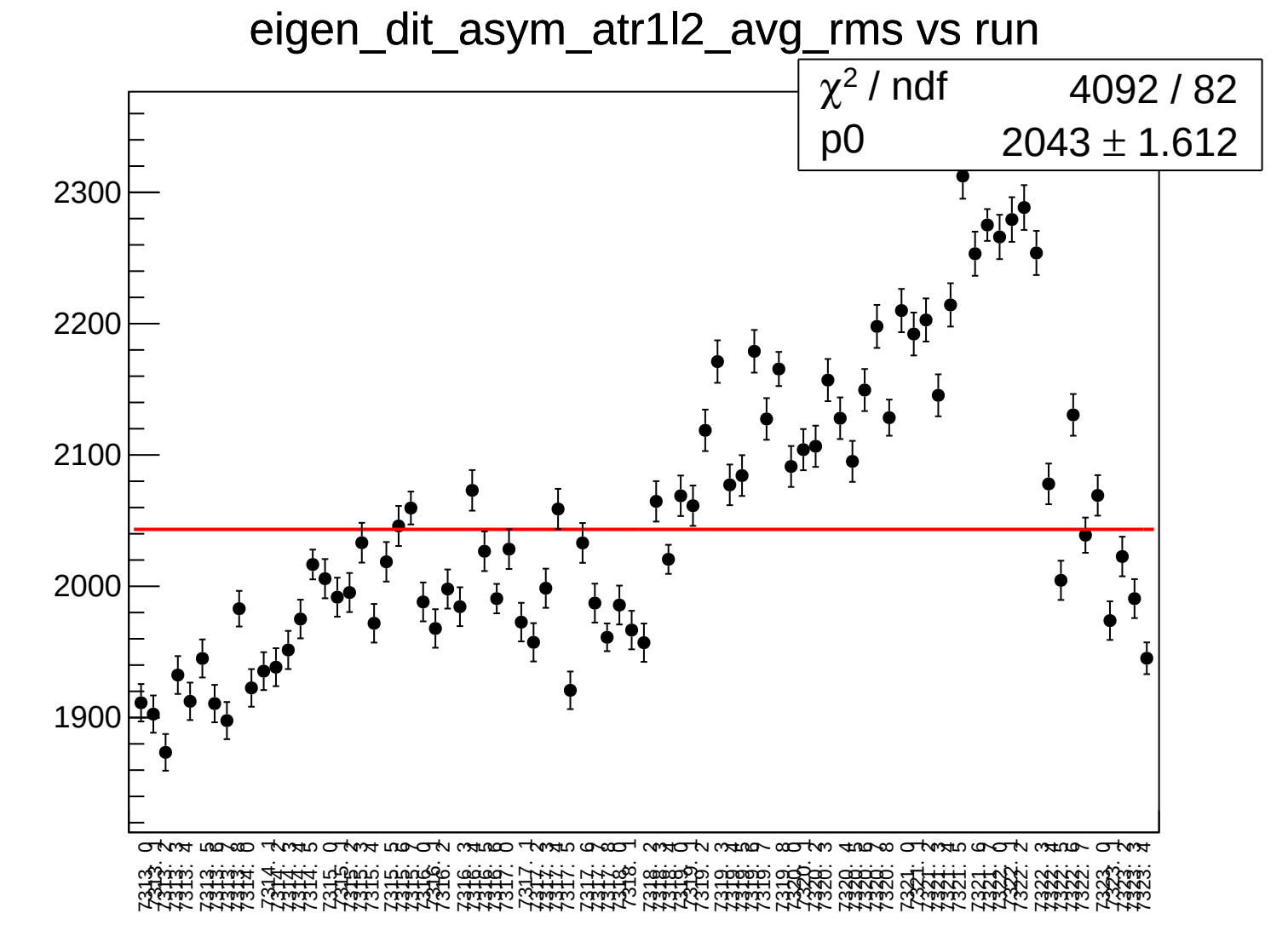

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.15 / 82
p0 8792 ± 8087
pull
Entries 83
Mean 716.7
Std Dev 0

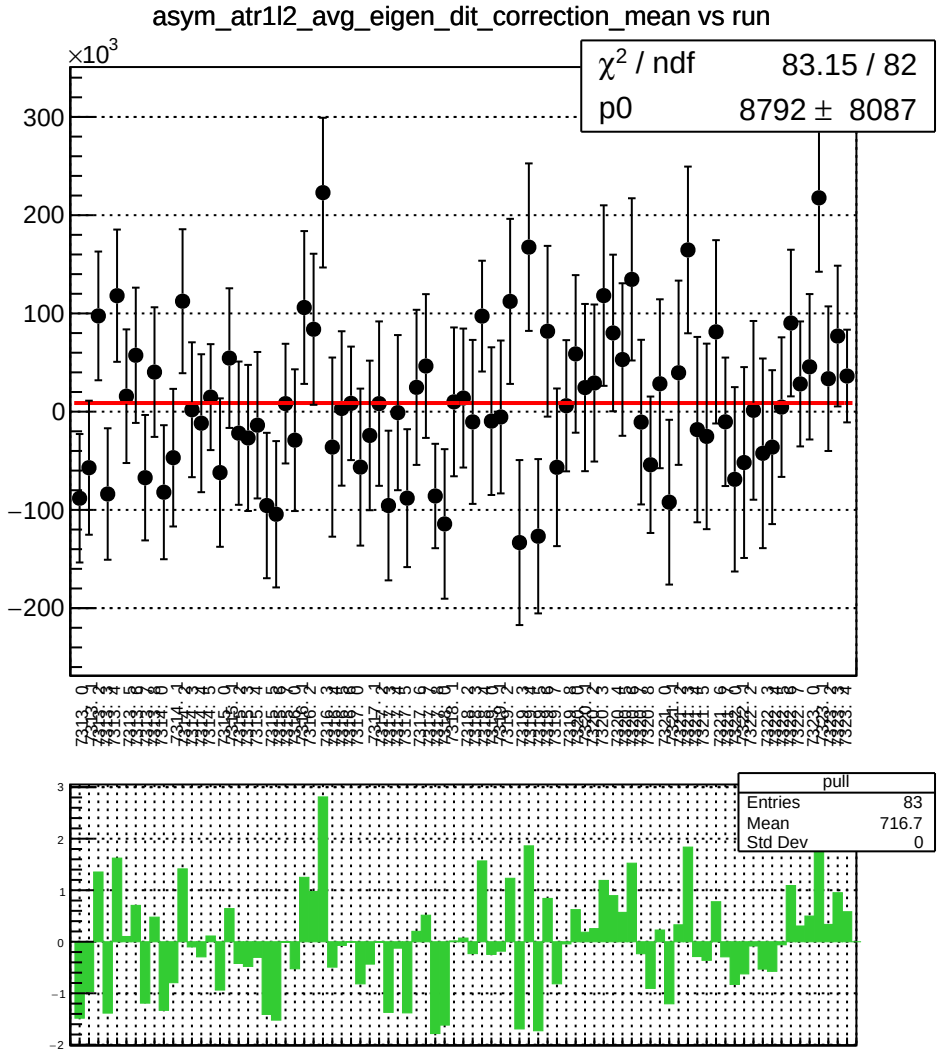

pull1D
Entries 83
Mean 0.006942
Std Dev 1.001

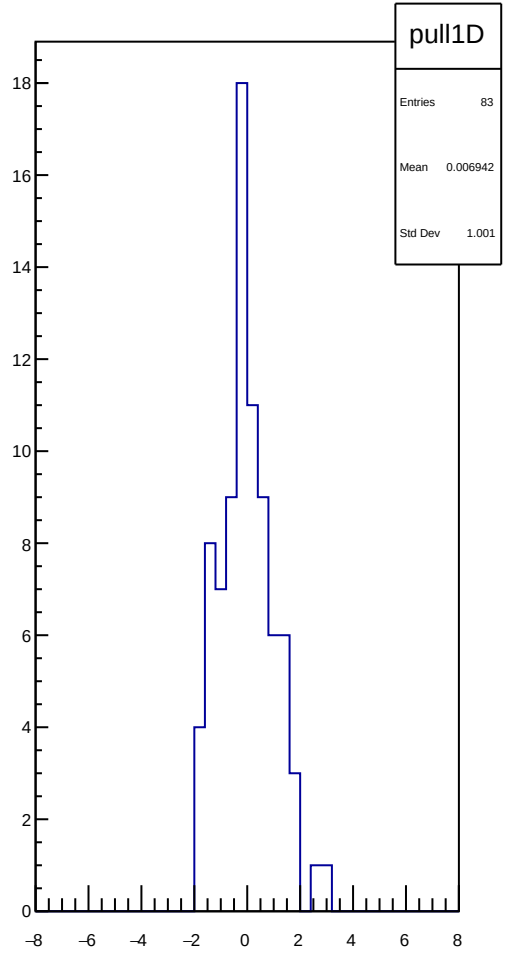

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.79e+04 / 82
p0 7218 ± 5.718
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

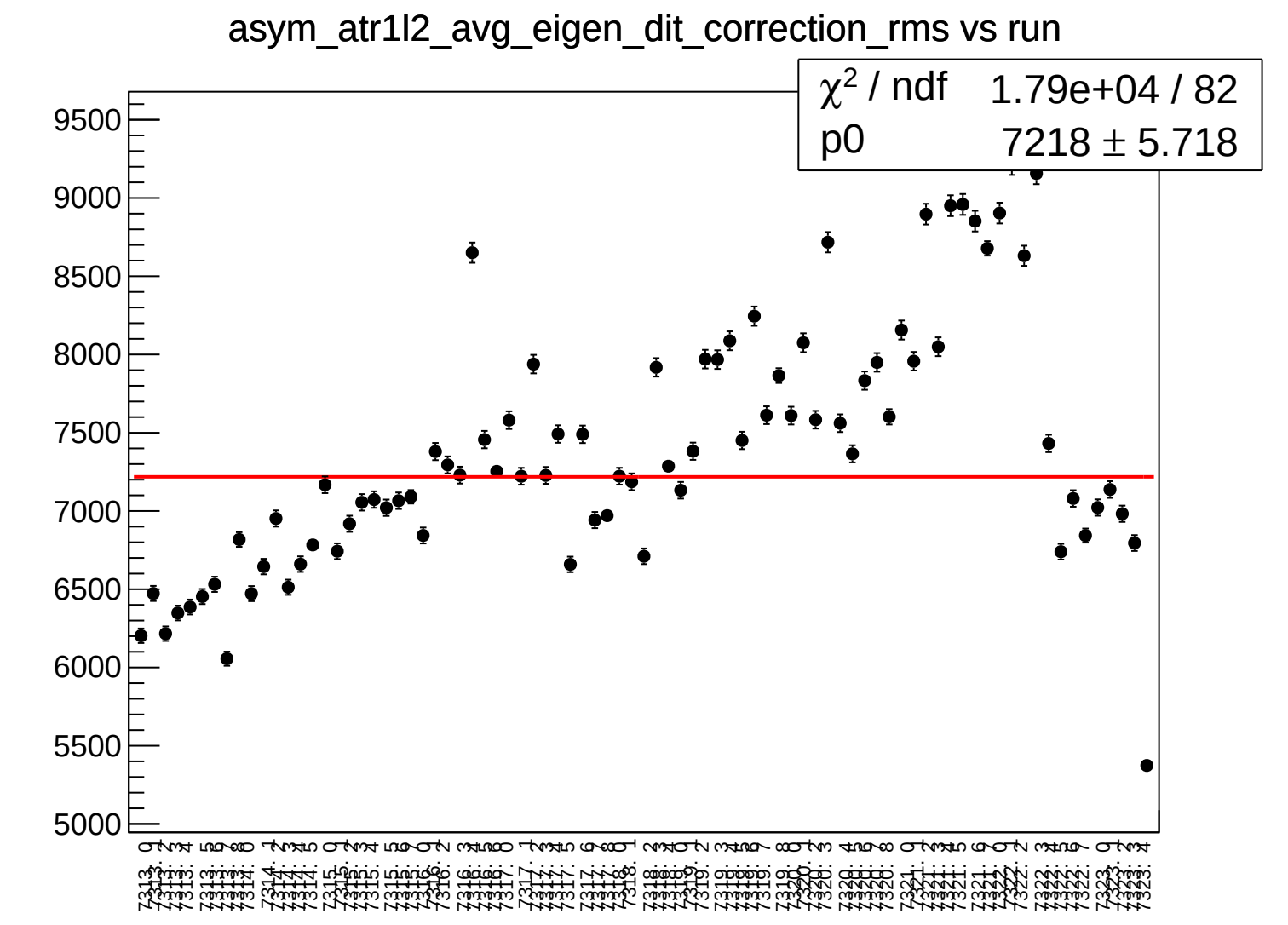

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.81 / 82
p0 543.7 ± 2279
pull
Entries 83
Mean 407.4
Std Dev 0

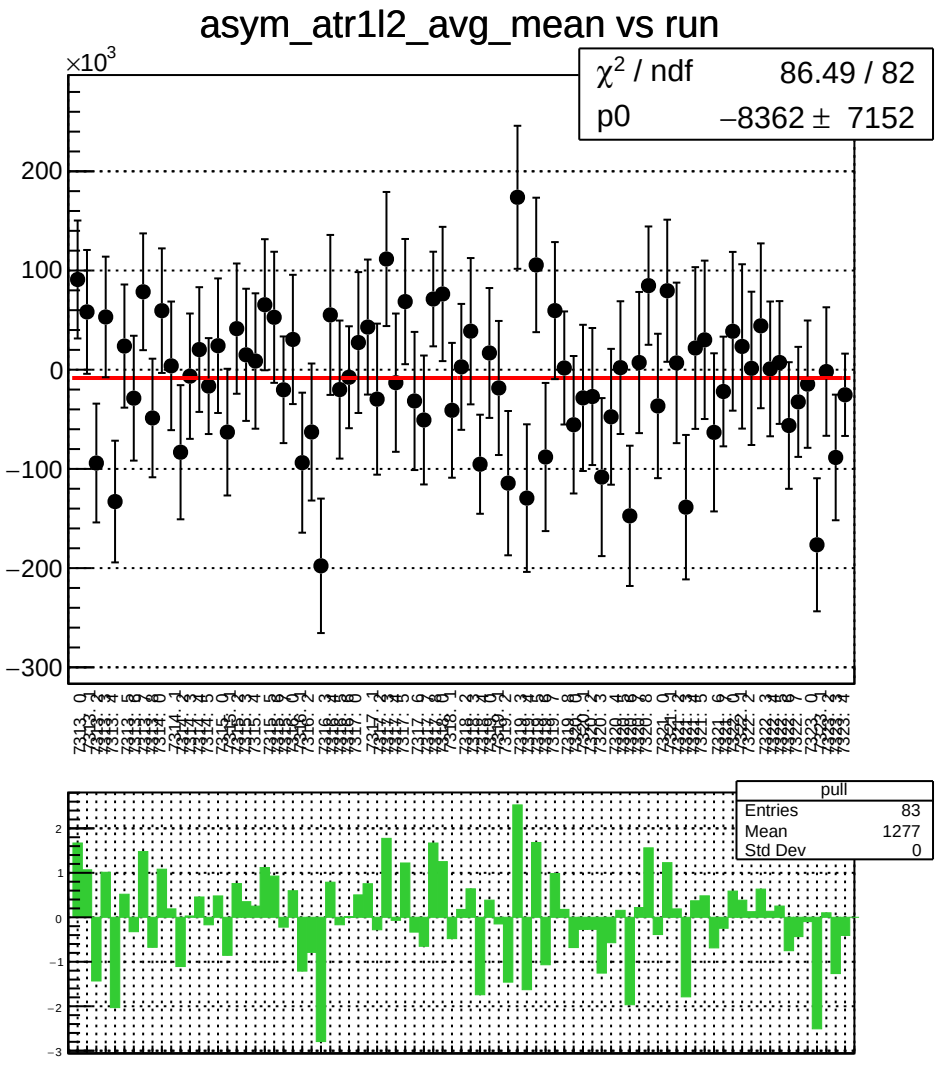

pull1D
Entries 83
Mean 0.01324
Std Dev 1.074

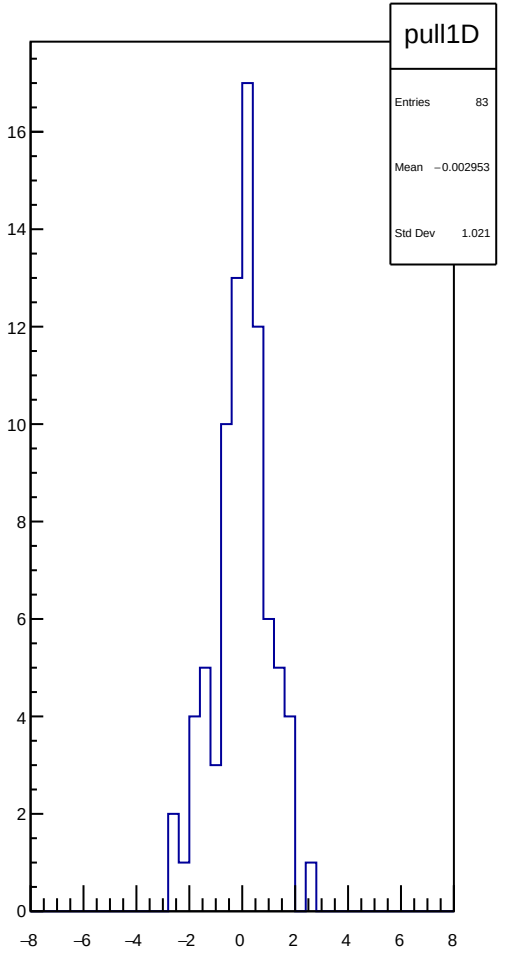

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 4092 / 82
p0 2043 ± 1.612
2300
2200
2100
2000
1900

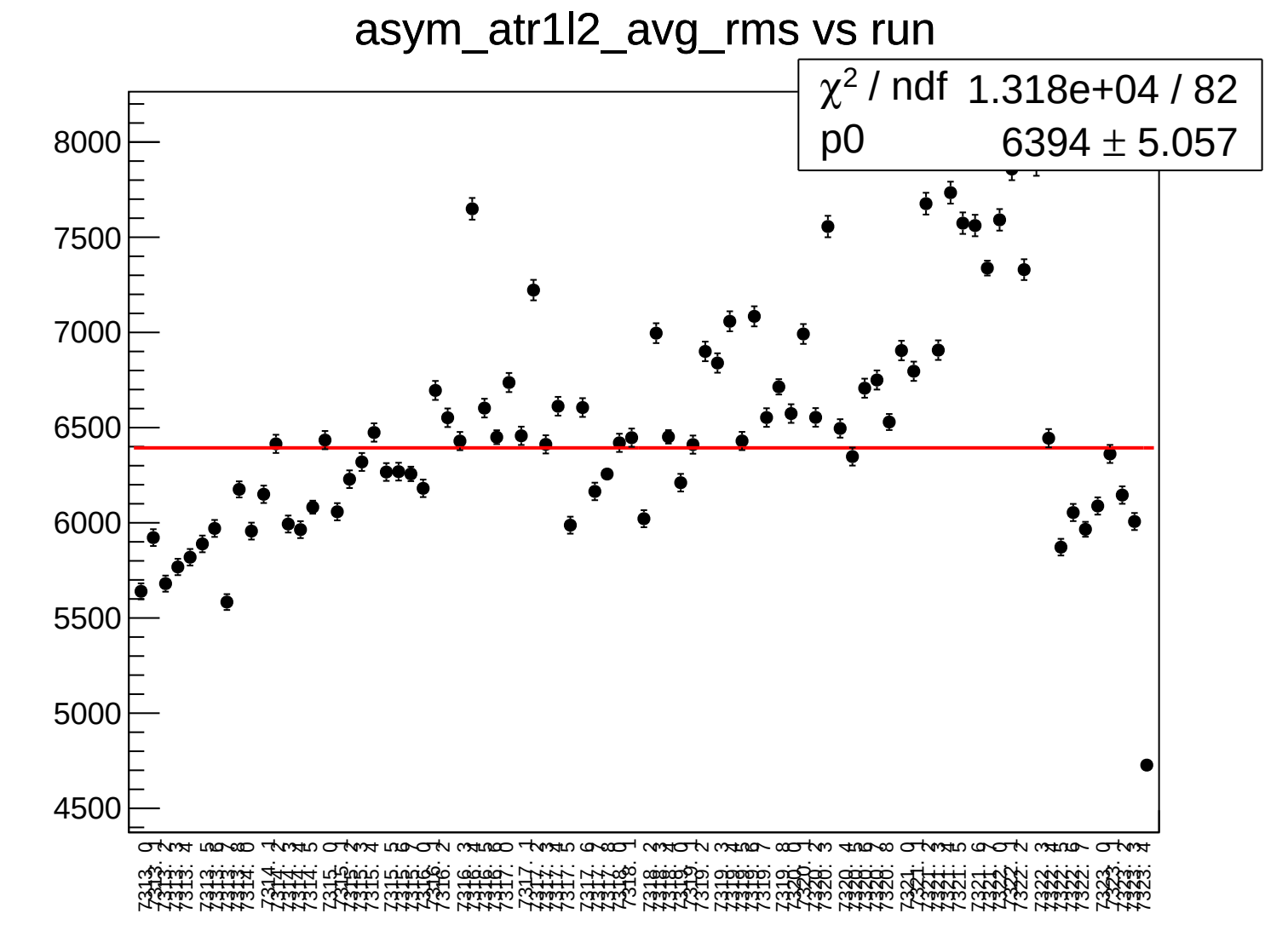

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.15 / 82
p0 8792 ± 8087
pull
Entries 83
Mean 716.7
Std Dev 0

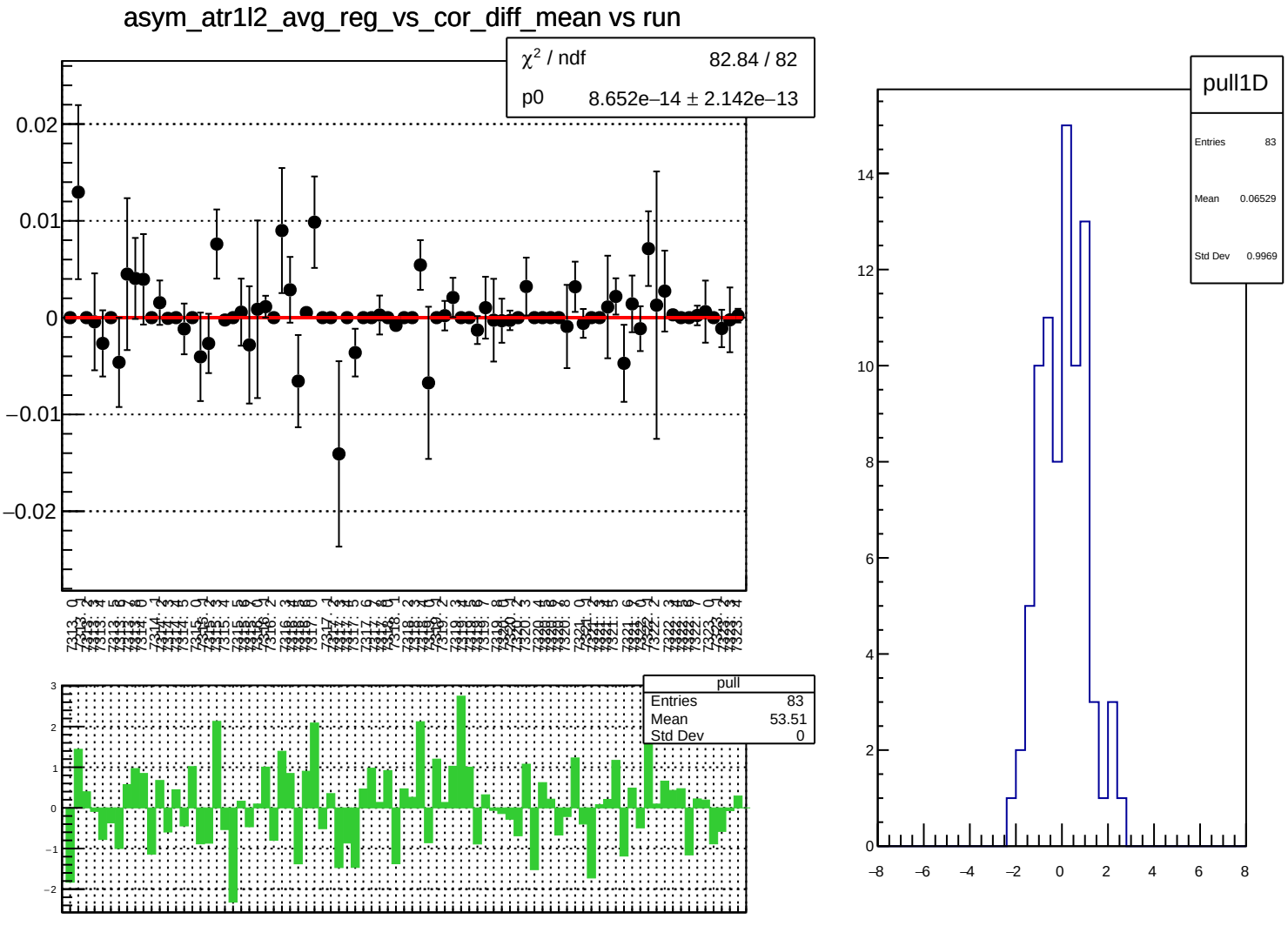

pull1D
Entries 83
Mean 0.006942
Std Dev 1.001

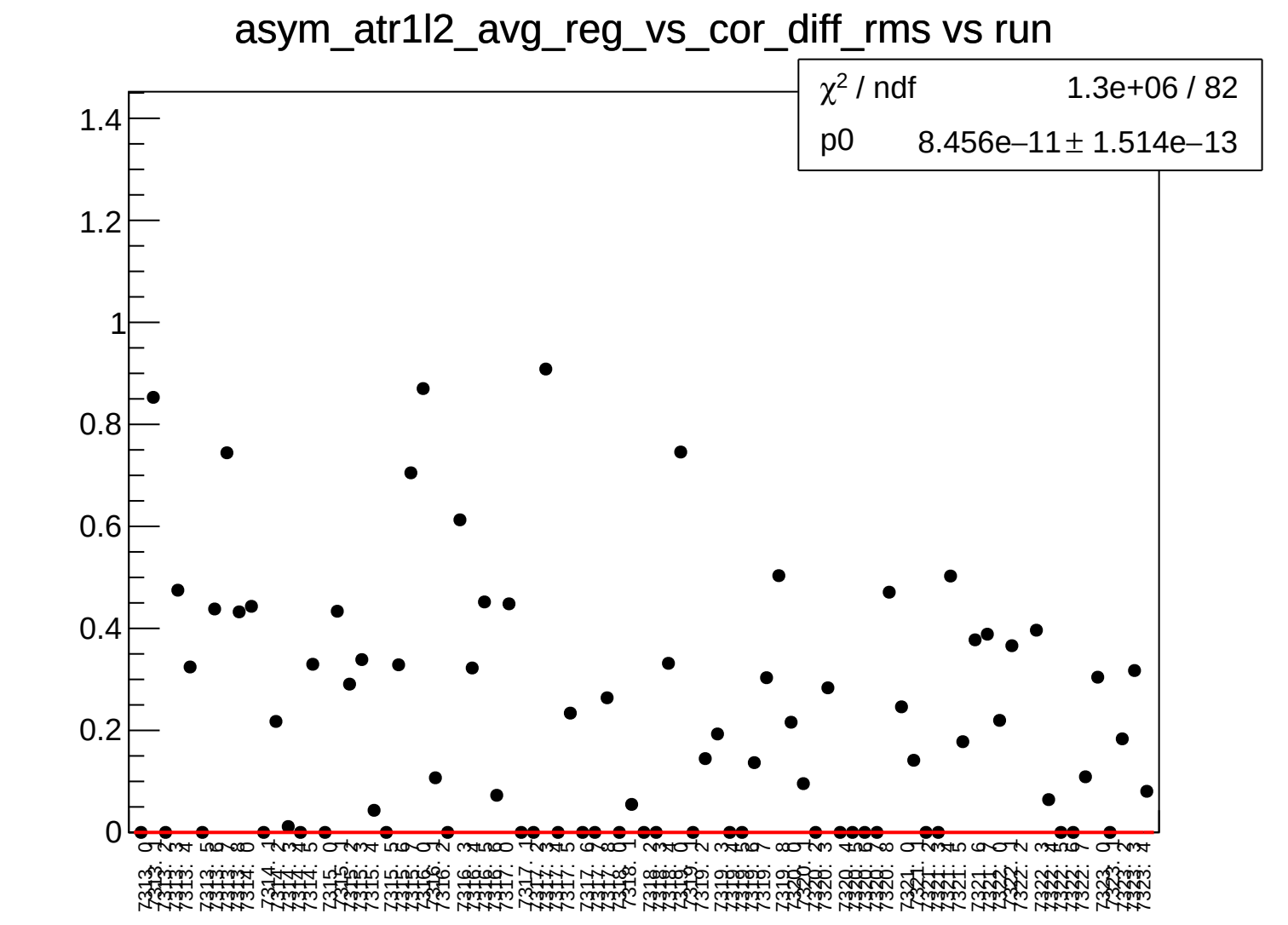

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.79e+04 / 82
p0 7218 ± 5.718
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

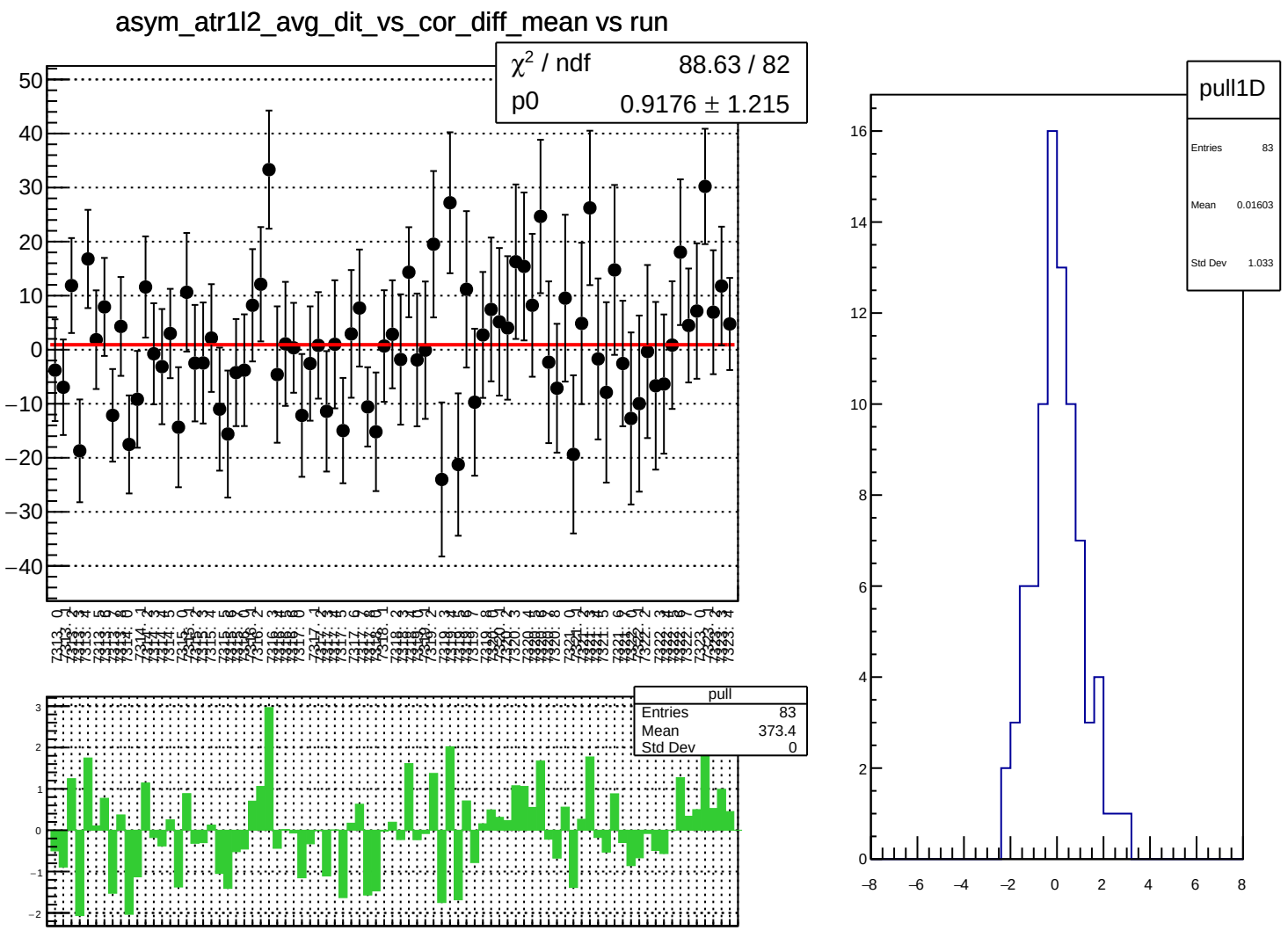

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 86.49 / 82
p0 −8362 ± 7152
200
100
0
−100
−200
−300
pull
Entries 83
Mean 1277
Std Dev 0
2
1
0
−1
−2
−3

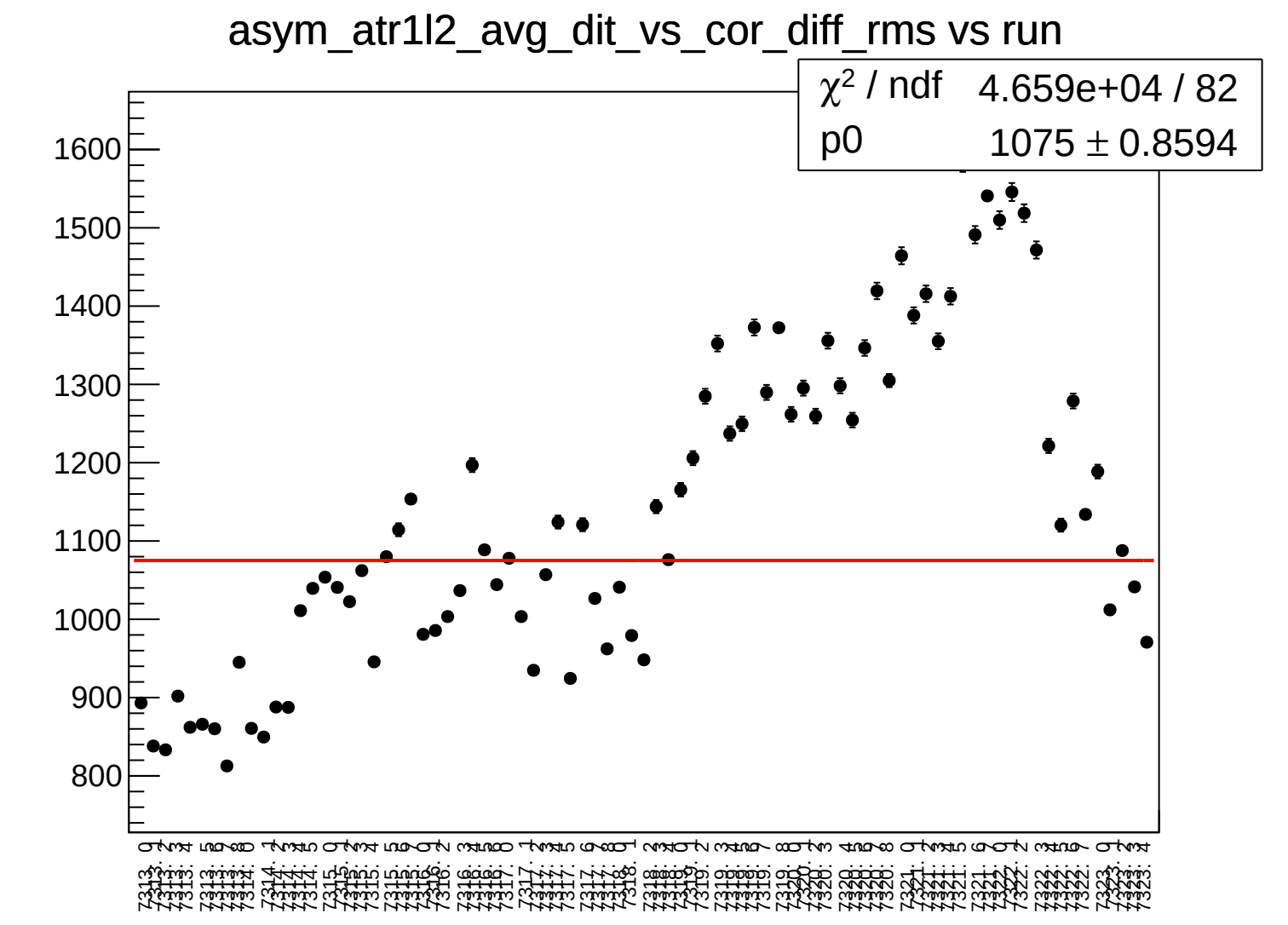

pull1D
Entries 83
Mean −0.002953
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

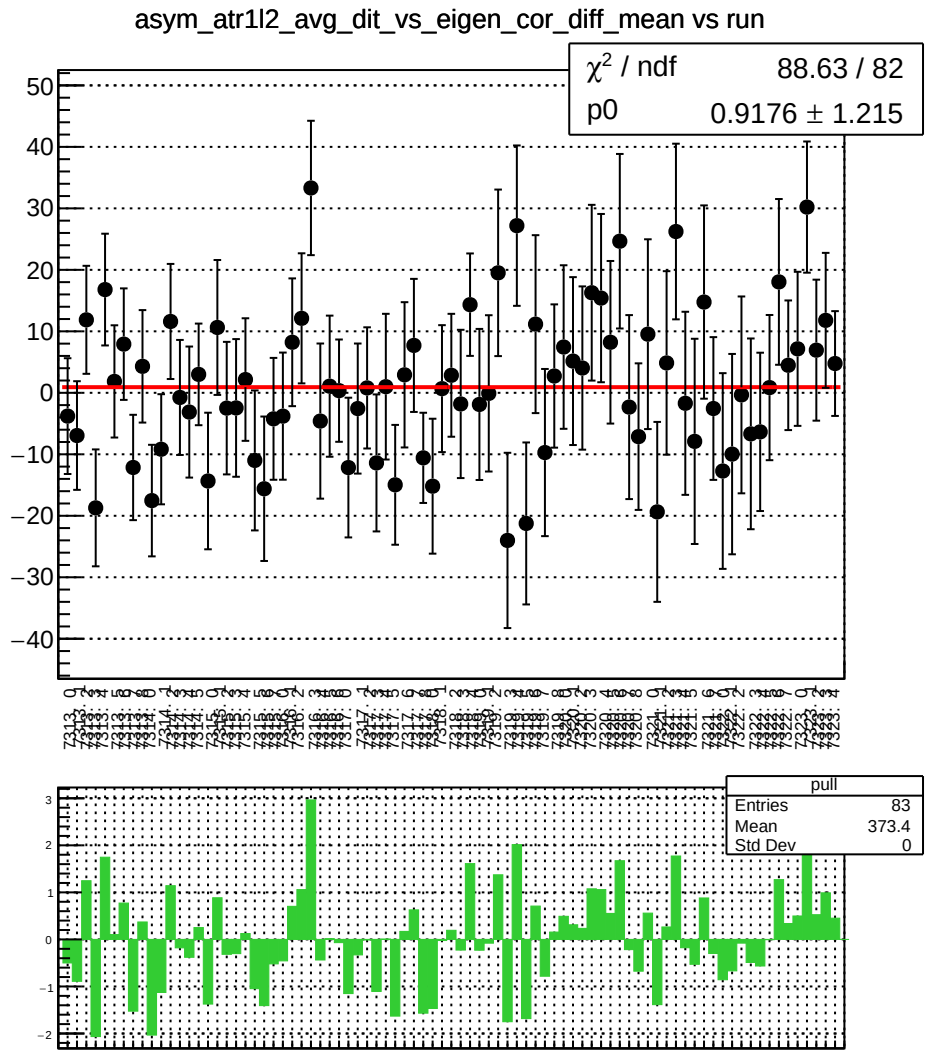

asym_atr1l2_avg_rms vs run
χ² / ndf 1.318e+04 / 82
p0 6394 ± 5.057
8000
7500
7000
6500
6000
5500
5000
4500

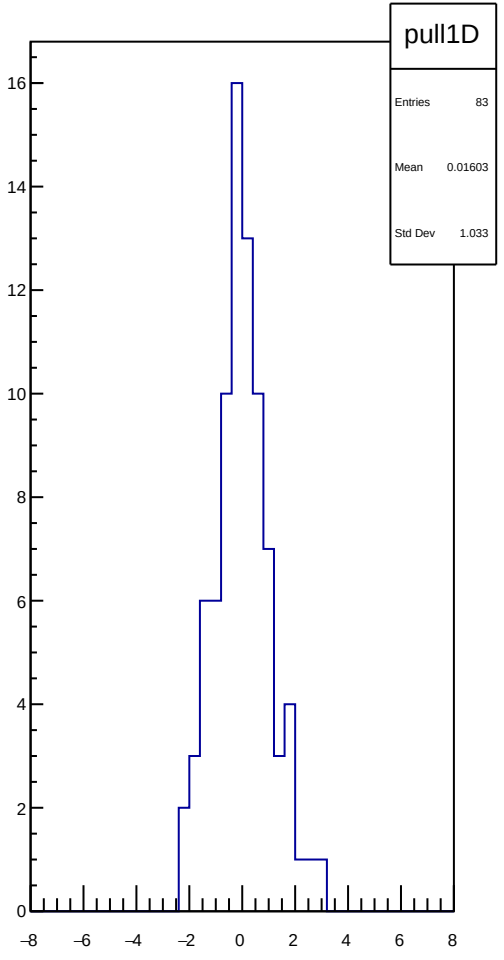

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.84 / 82
p0 8.652e−14 ± 2.142e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean 53.51
Std Dev 0
pull1D
Entries 83
Mean 0.06529
Std Dev 0.9969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

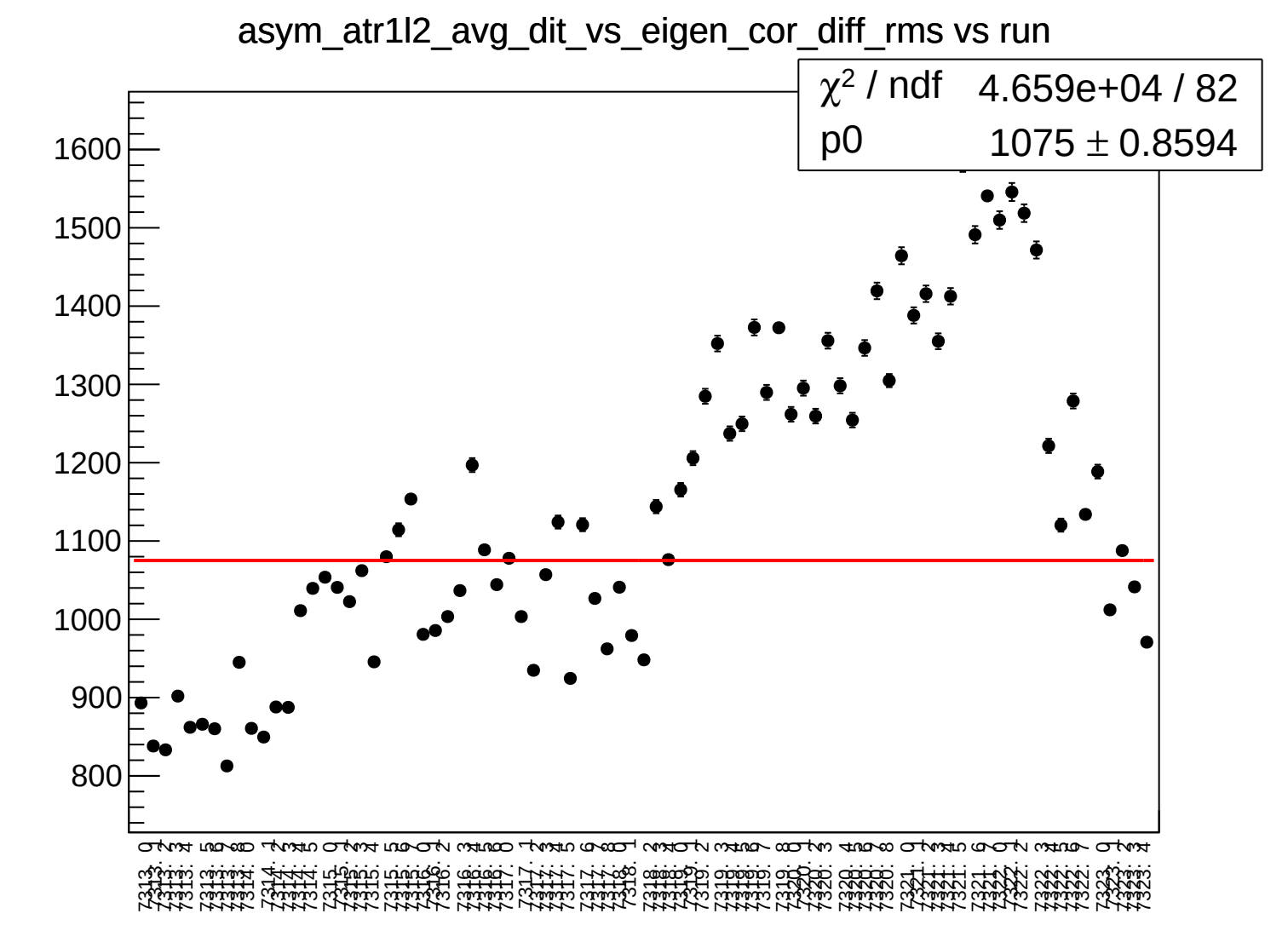

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.3e+06 / 82
p0 8.456e−11 ± 1.514e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

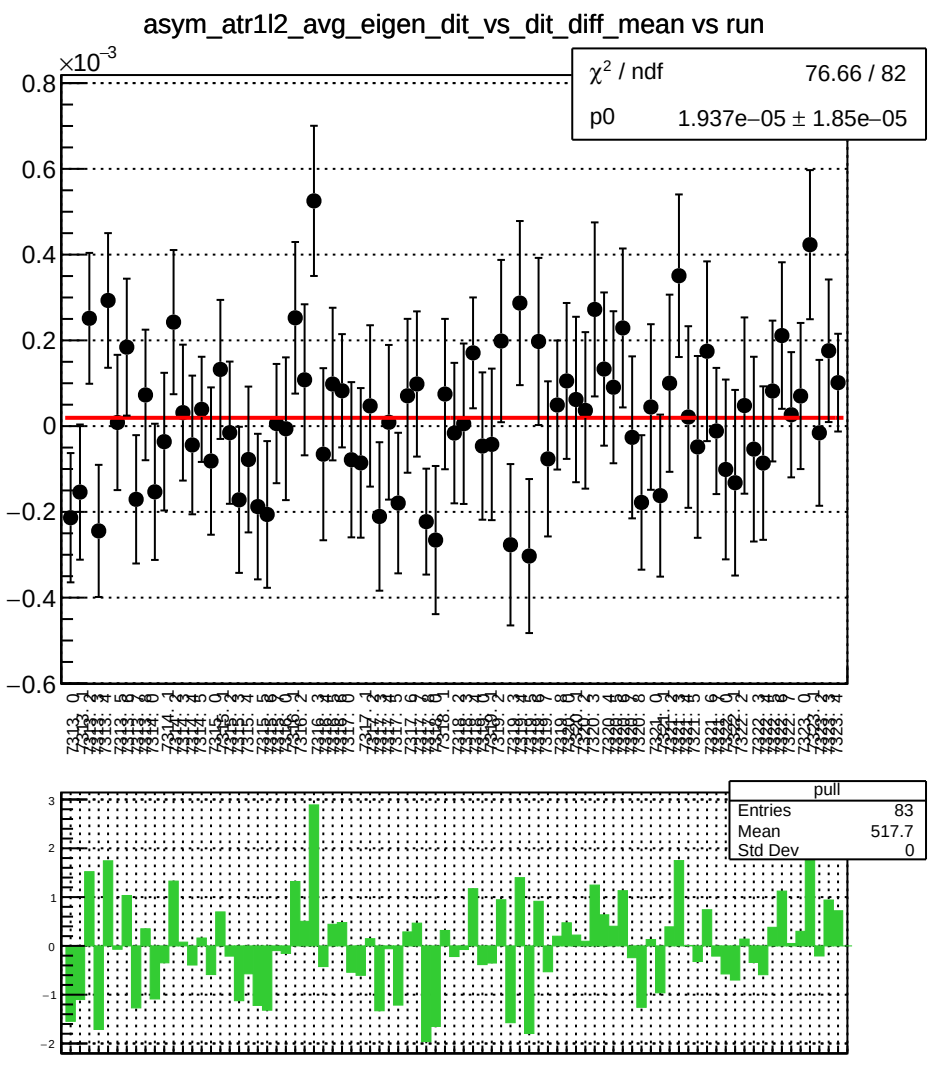

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.63 / 82
p0 0.9176 ± 1.215
pull
Entries 83
Mean 373.4
Std Dev 0
pull1D
Entries 83
Mean 0.01603
Std Dev 1.033

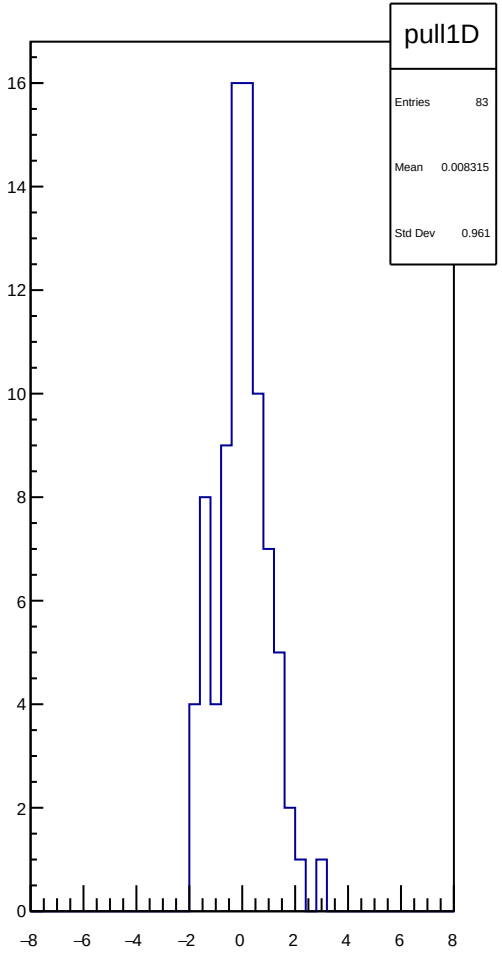

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.659e+04 / 82
p0 1075 ± 0.8594
1600
1500
1400
1300
1200
1100
1000
900
800

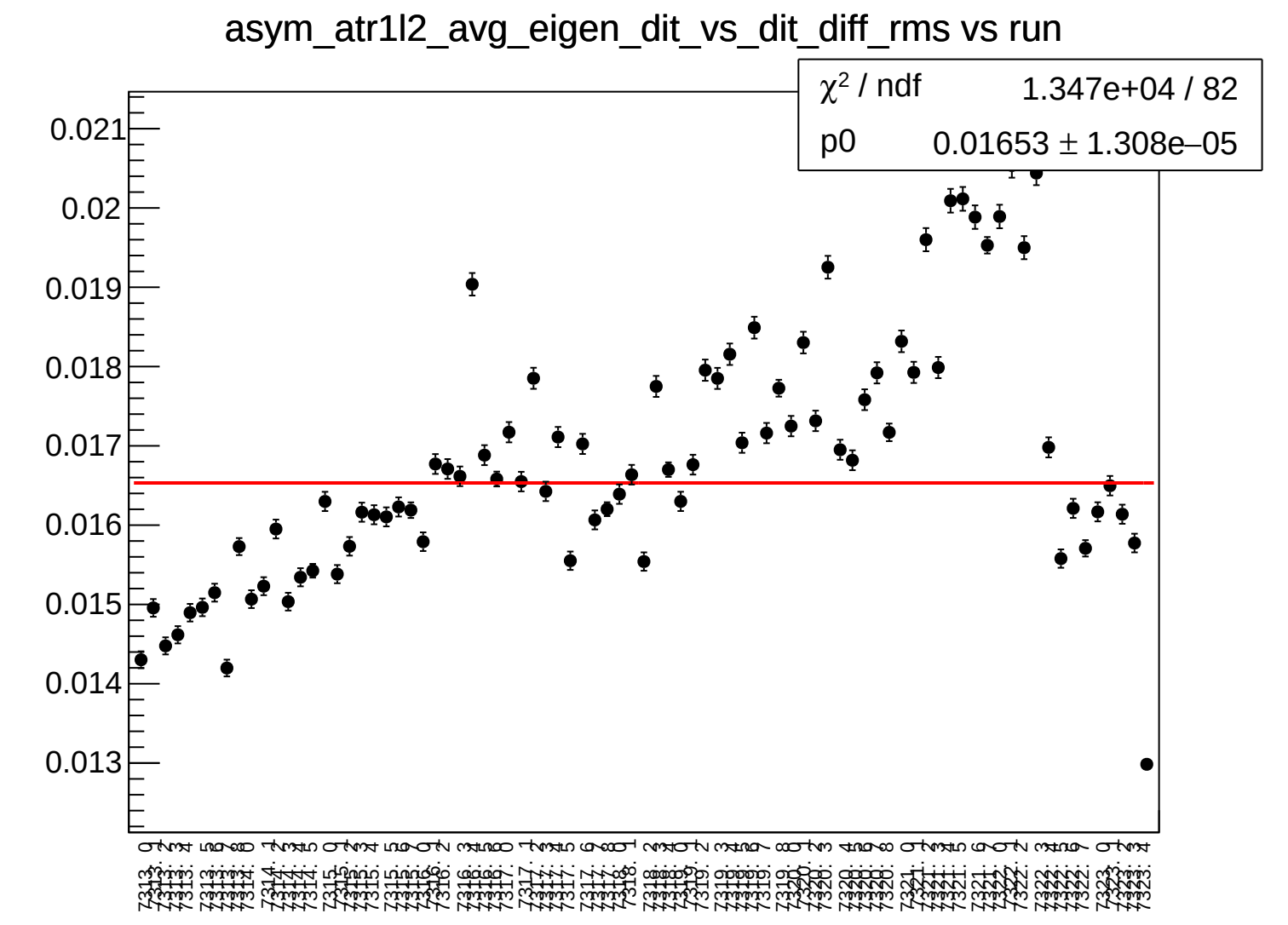

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.63 / 82
p0 0.9176 ± 1.215
pull
Entries 83
Mean 373.4
Std Dev 0

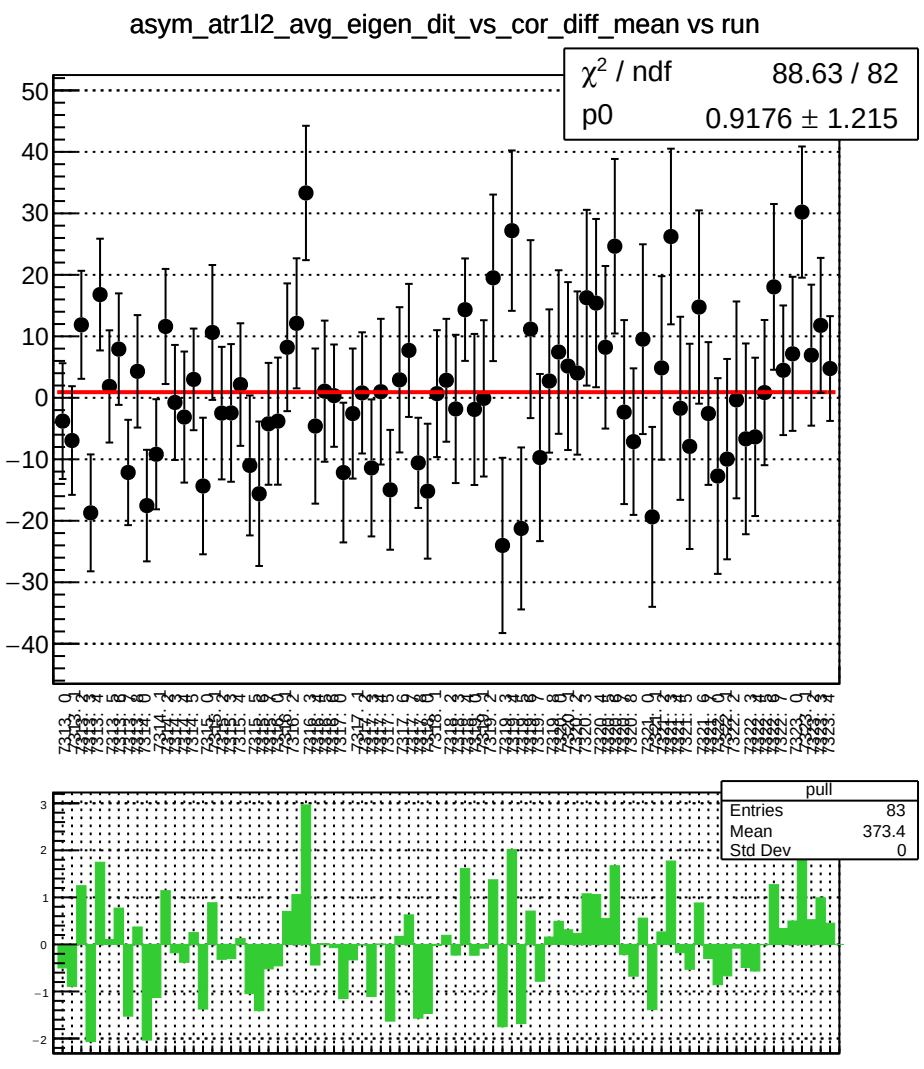

pull1D
Entries 83
Mean 0.01603
Std Dev 1.033

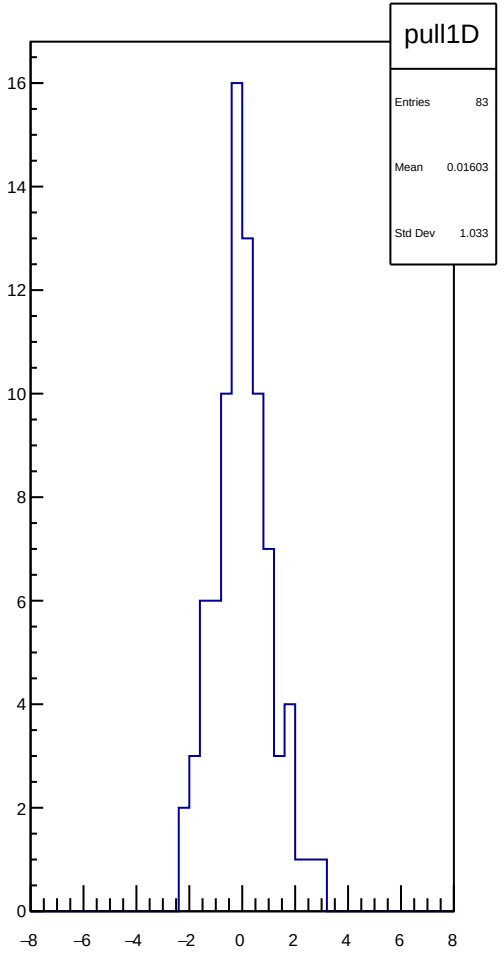

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.659e+04 / 82
p0 1075 ± 0.8594
1600
1500
1400
1300
1200
1100
1000
900
800

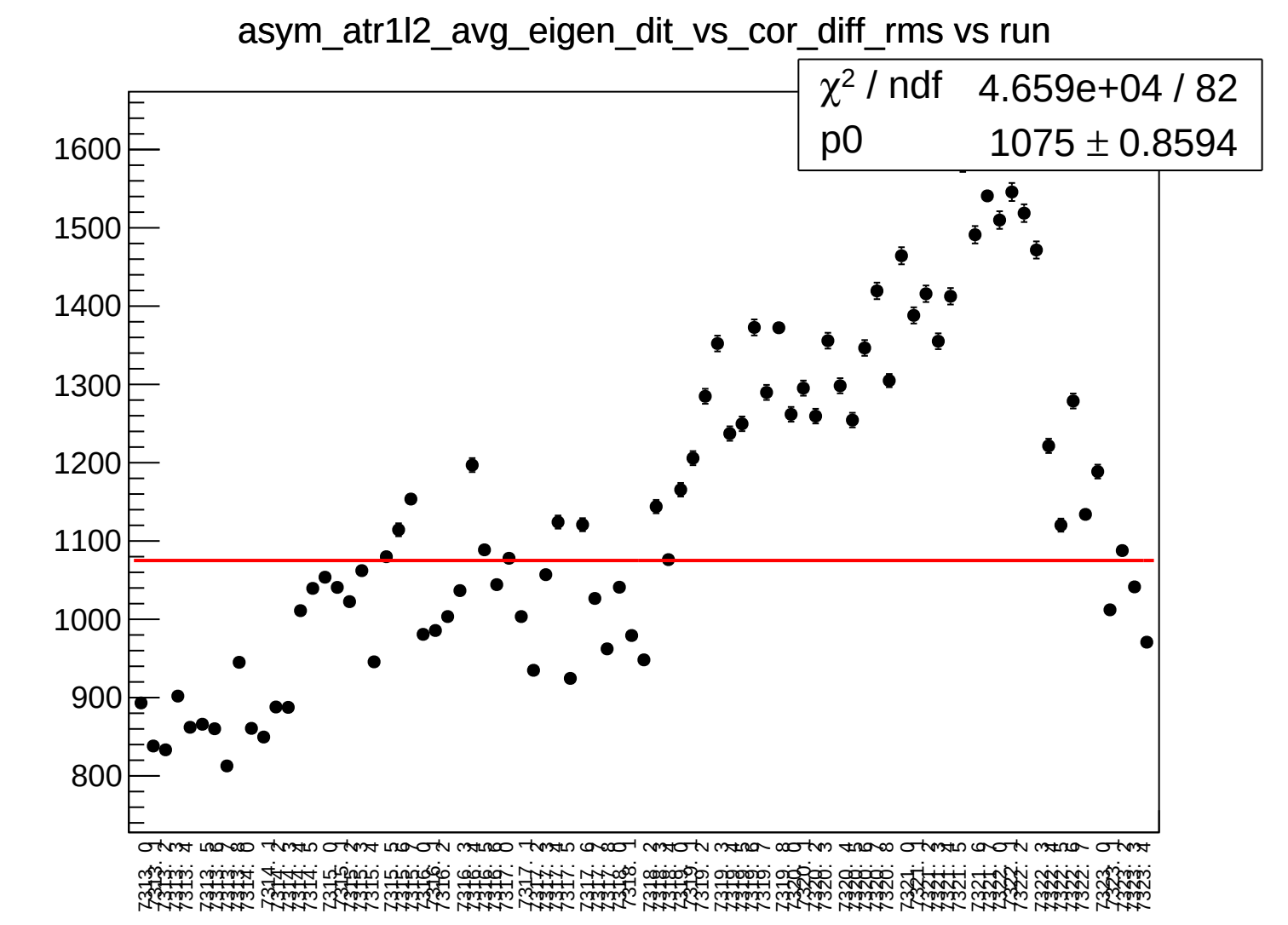

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.66 / 82
p0 1.937e−05 ± 1.85e−05
pull
Entries 83
Mean 517.7
Std Dev 0

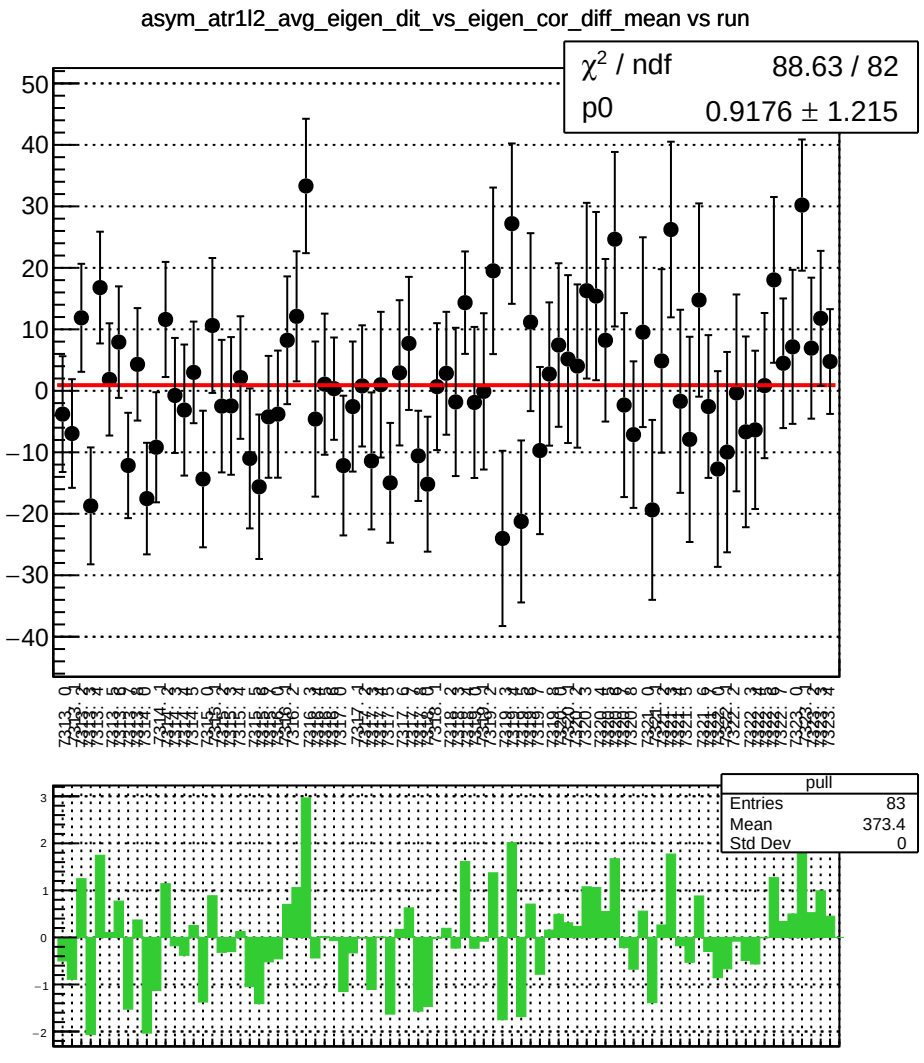

pull1D
Entries 83
Mean 0.008315
Std Dev 0.961

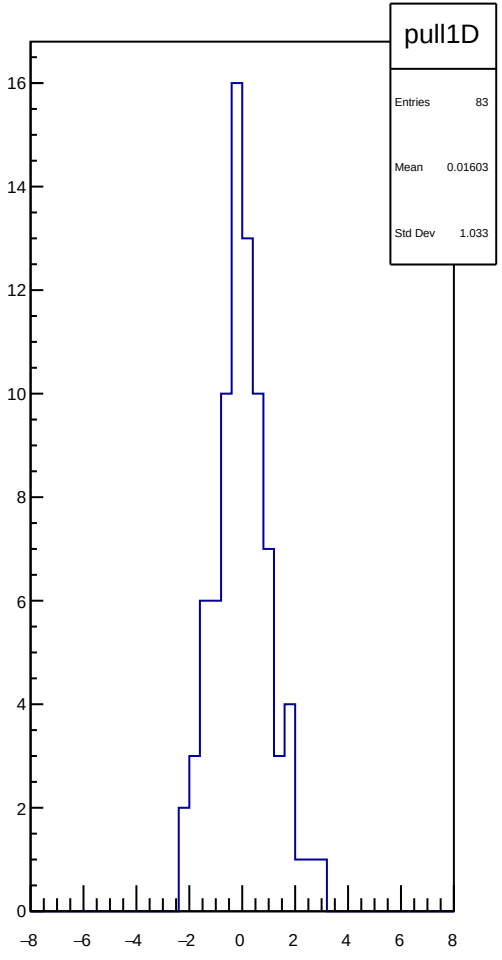

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.347e+04 / 82
p0 0.01653 ± 1.308e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

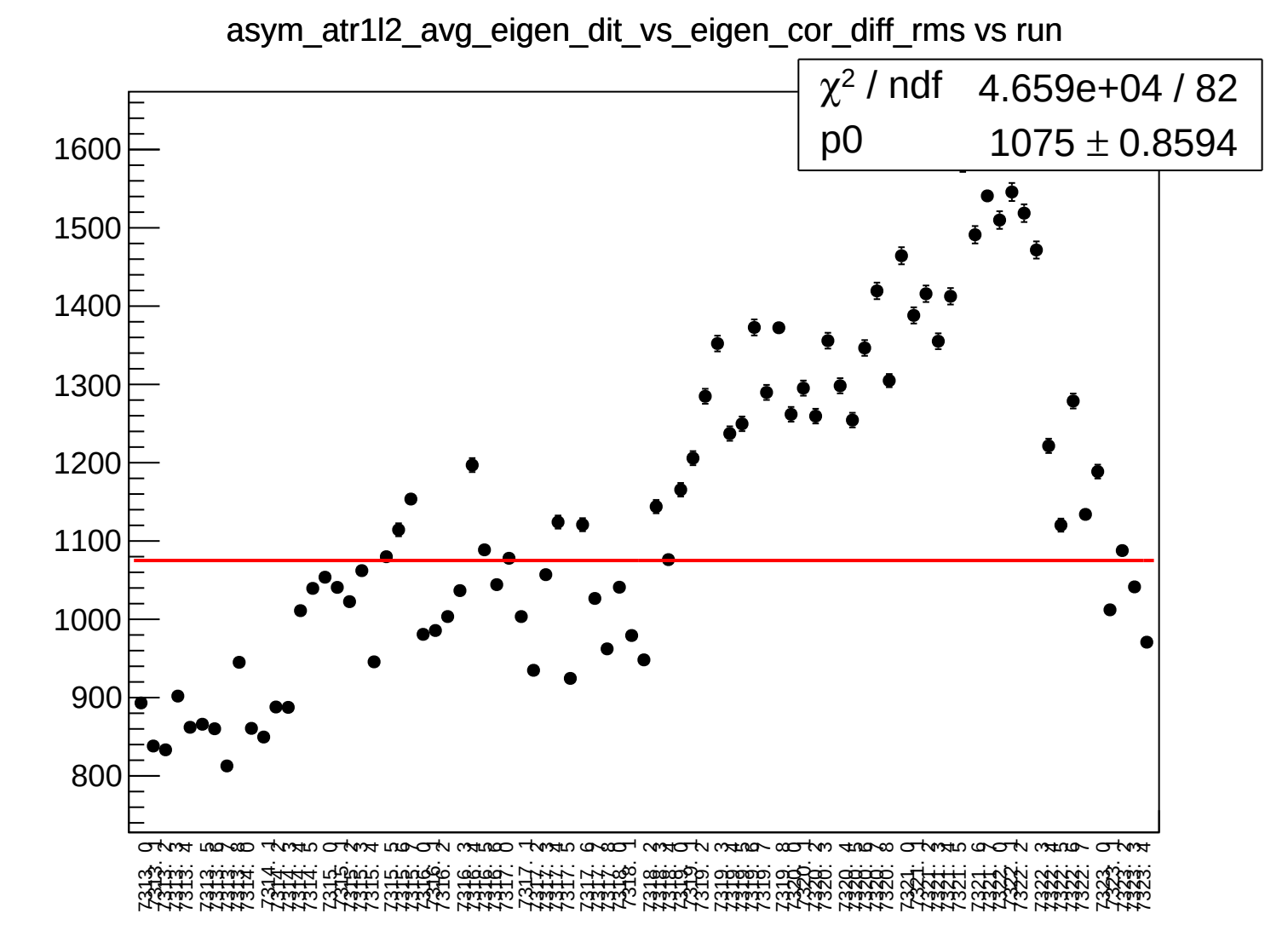

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.63 / 82
p0 0.9176 ± 1.215
pull
Entries 83
Mean 373.4
Std Dev 0

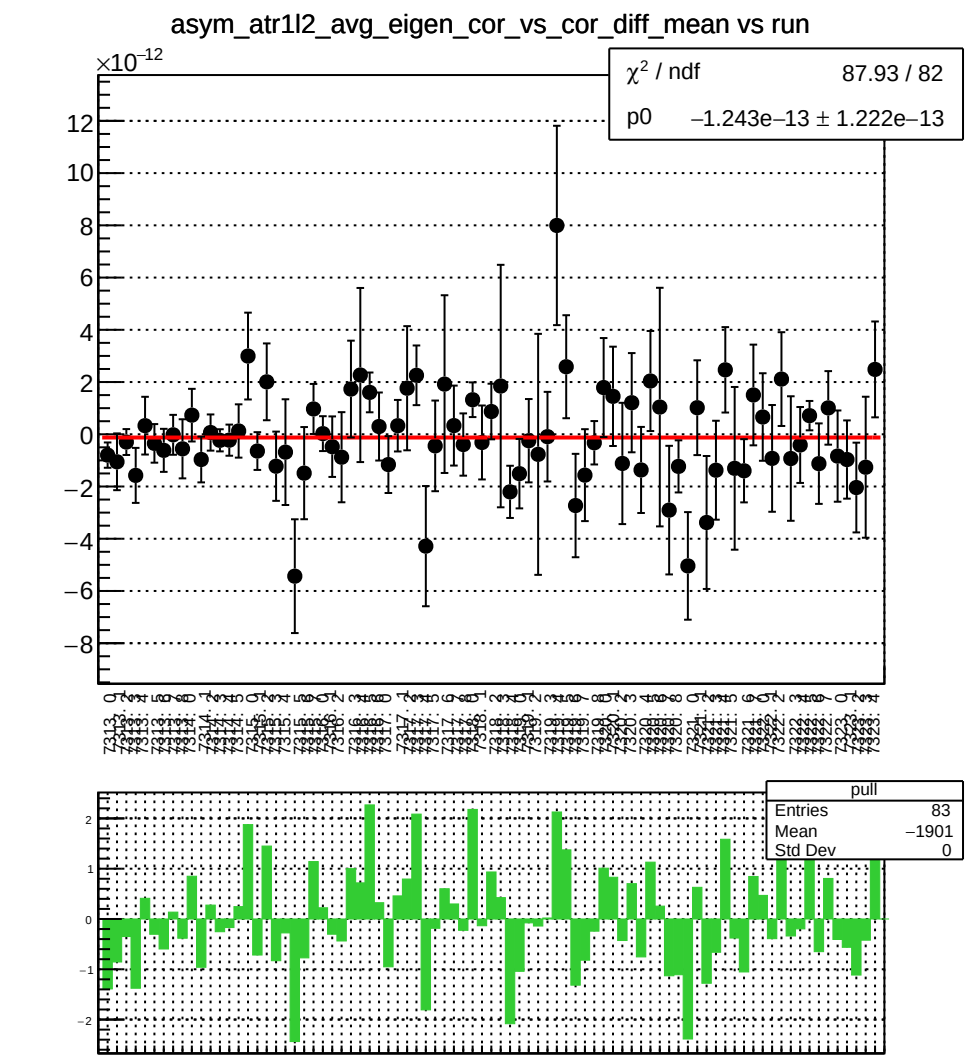

pull1D
Entries 83
Mean 0.01603
Std Dev 1.033

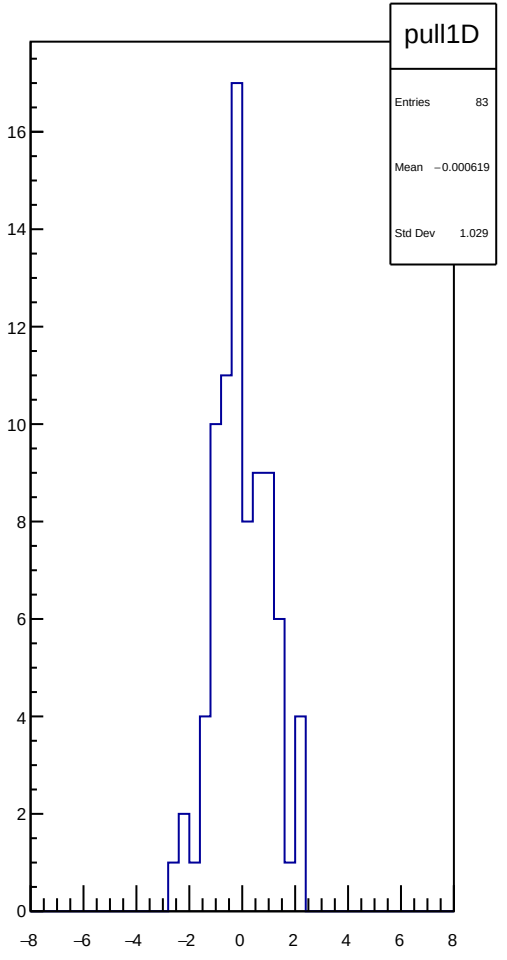

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.659e+04 / 82
p0 1075 ± 0.8594
1600
1500
1400
1300
1200
1100
1000
900
800

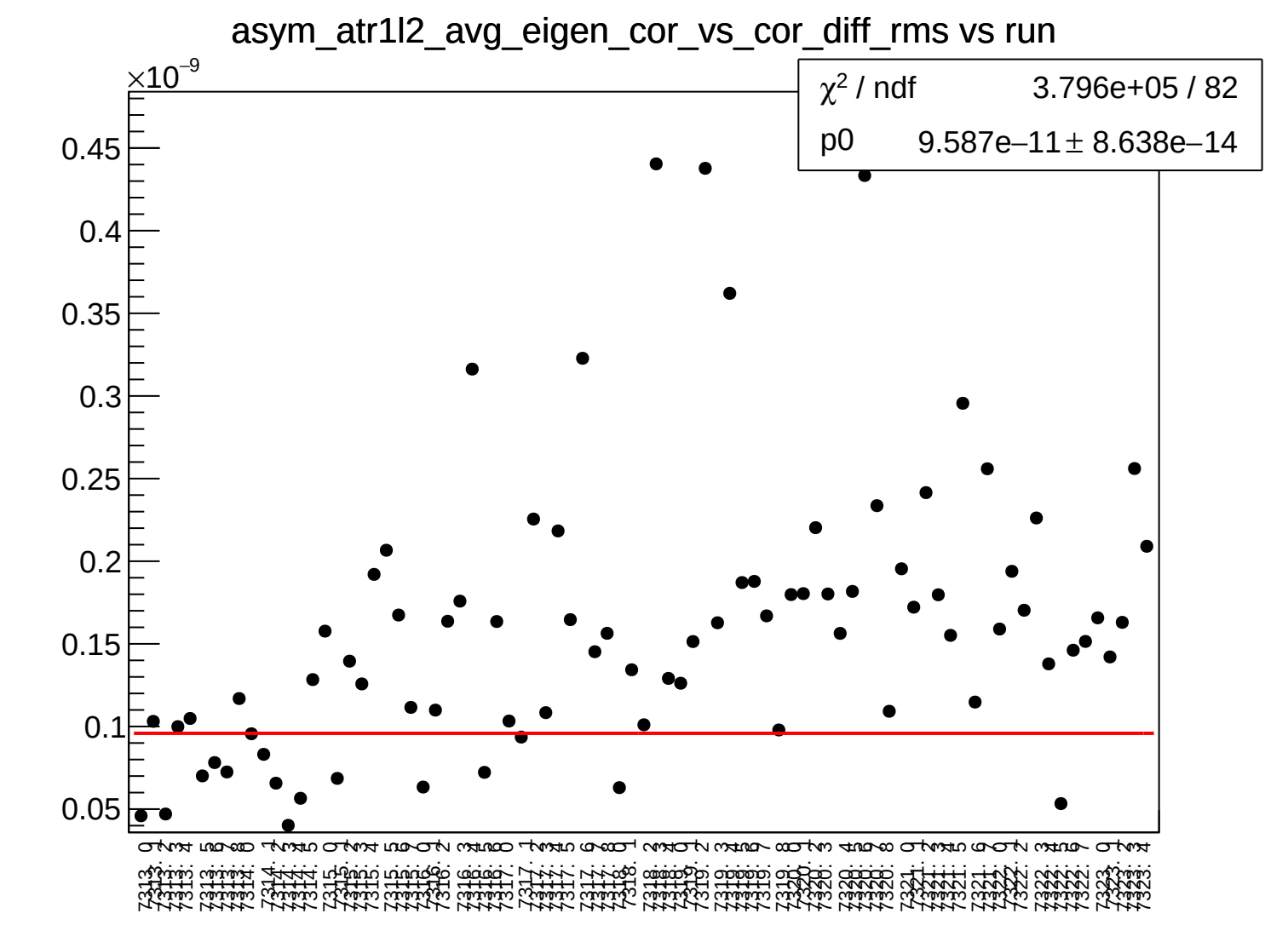

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.63 / 82
p0 0.9176 ± 1.215
pull
Entries 83
Mean 373.4
Std Dev 0

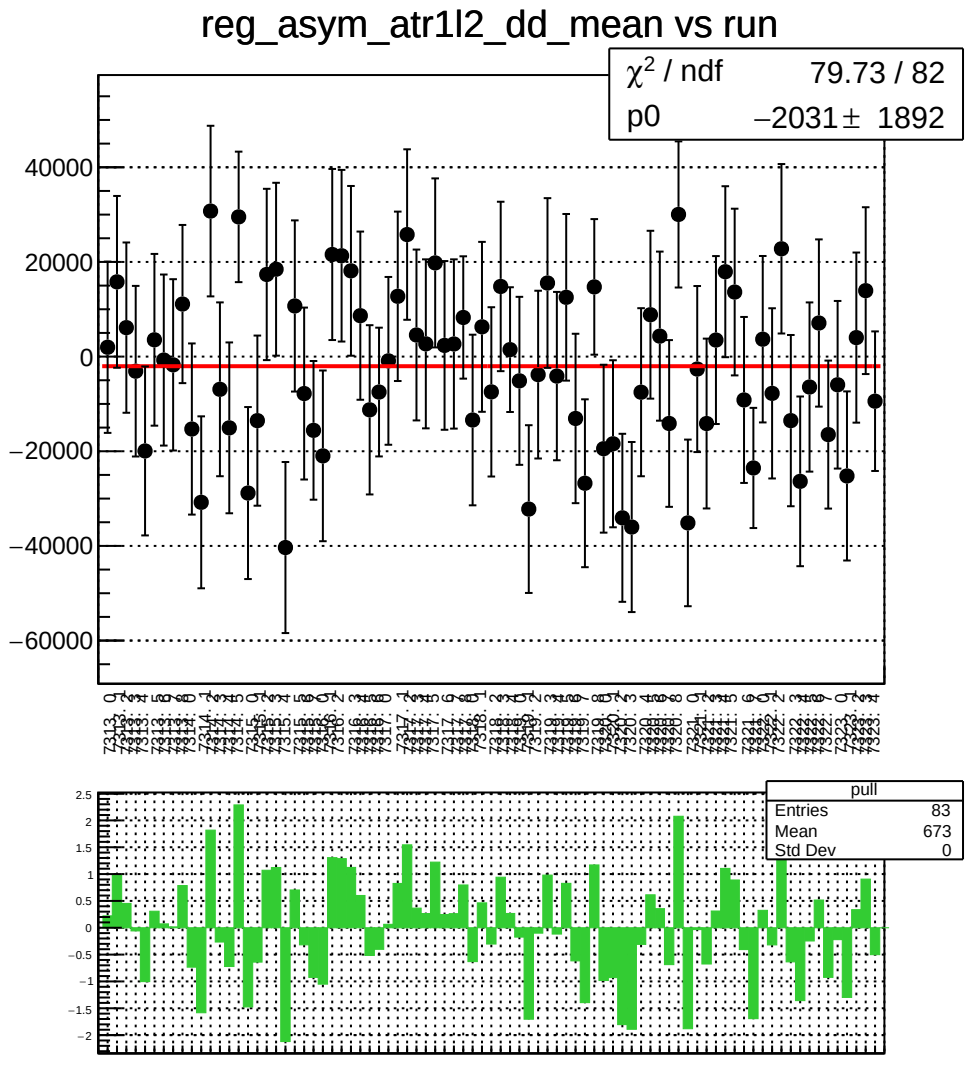

pull1D
Entries 83
Mean 0.01603
Std Dev 1.033

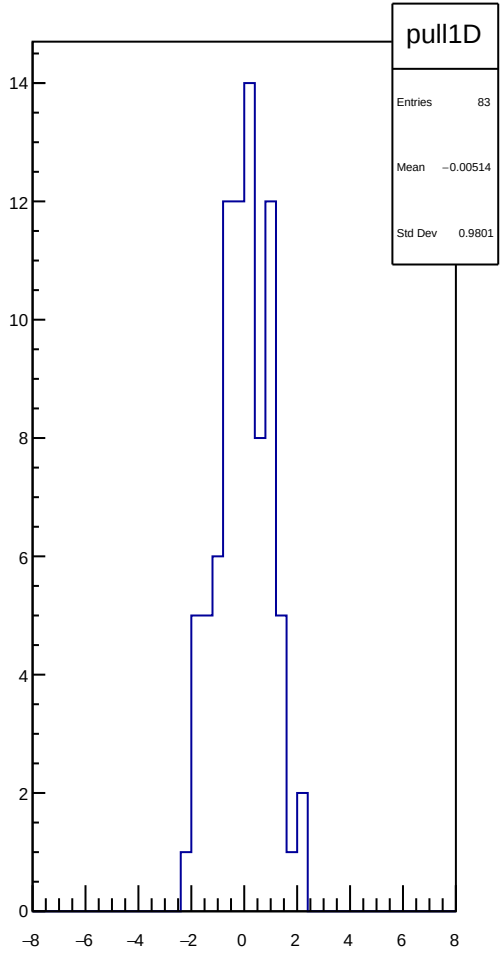

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.659e+04 / 82
p0 1075 ± 0.8594
1600
1500
1400
1300
1200
1100
1000
900
800

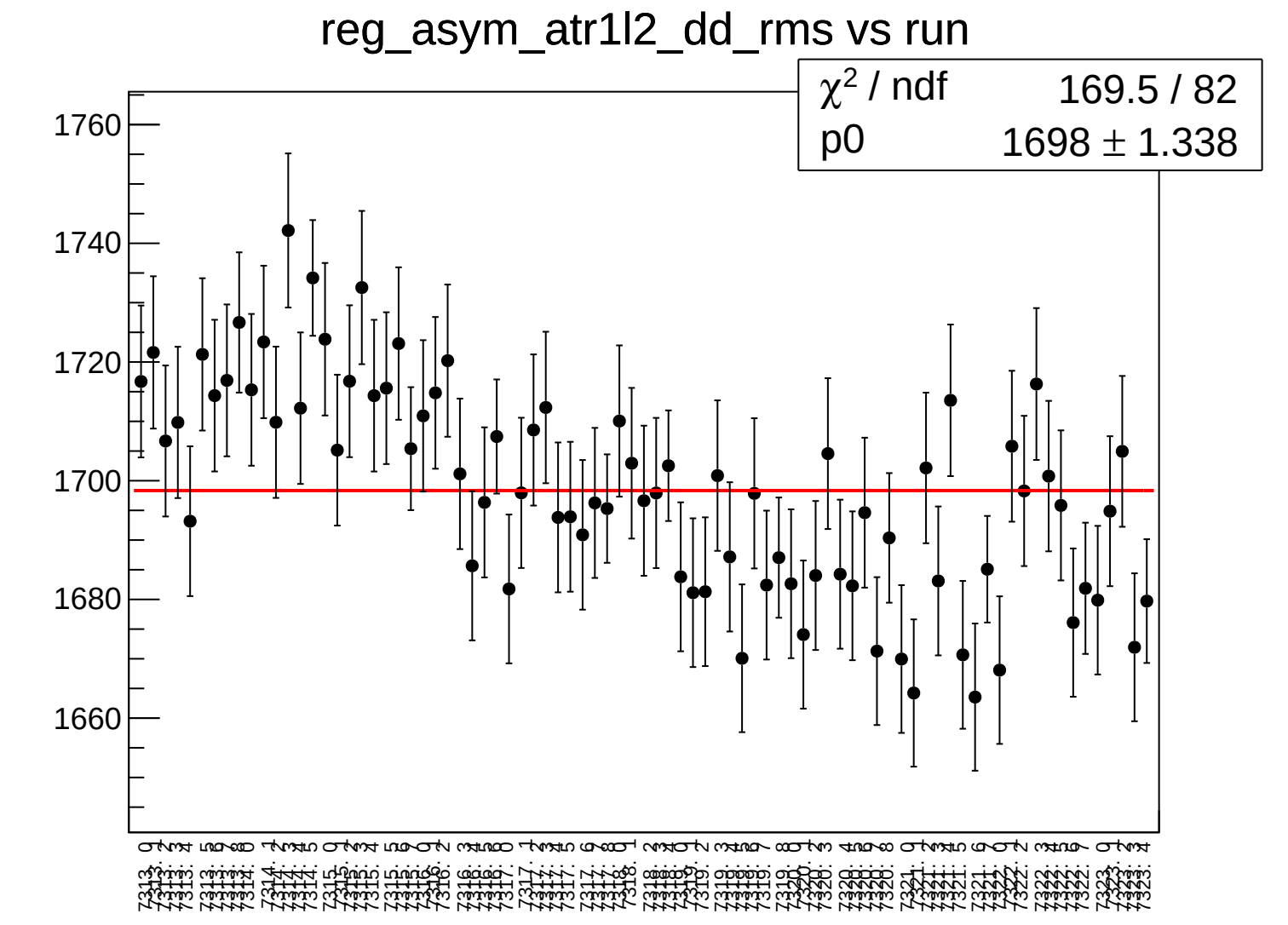

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.93 / 82
p0 −1.243e−13 ± 1.222e−13
pull
Entries 83
Mean −1901
Std Dev 0

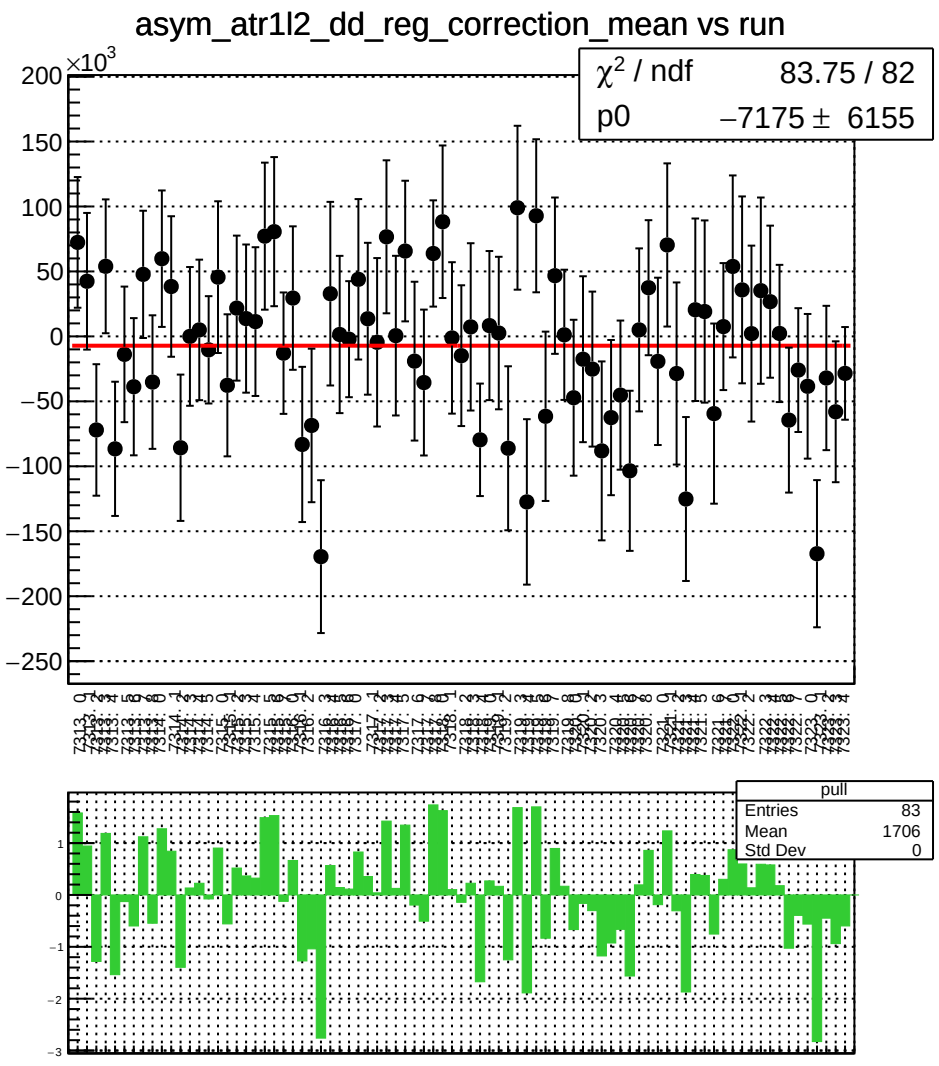

pull1D
Entries 83
Mean −0.000619
Std Dev 1.029

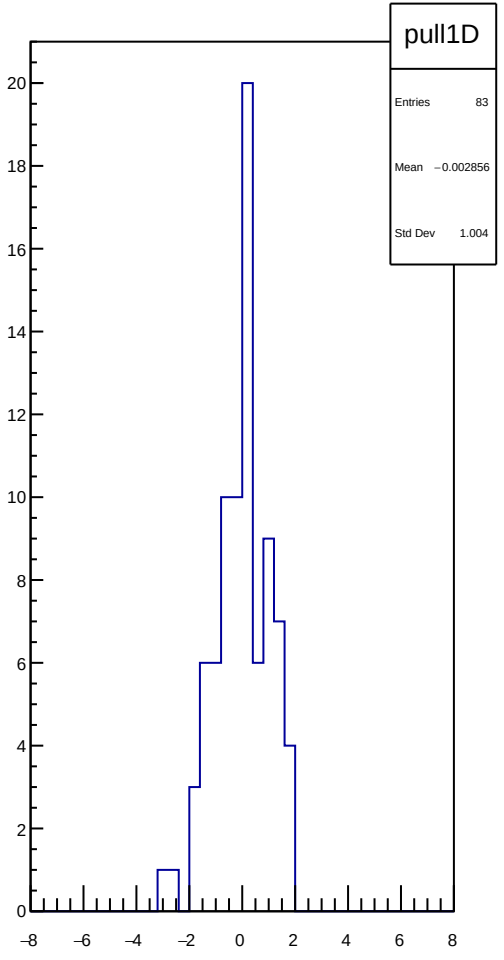

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.796e+05 / 82
p0 9.587e−11 ± 8.638e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

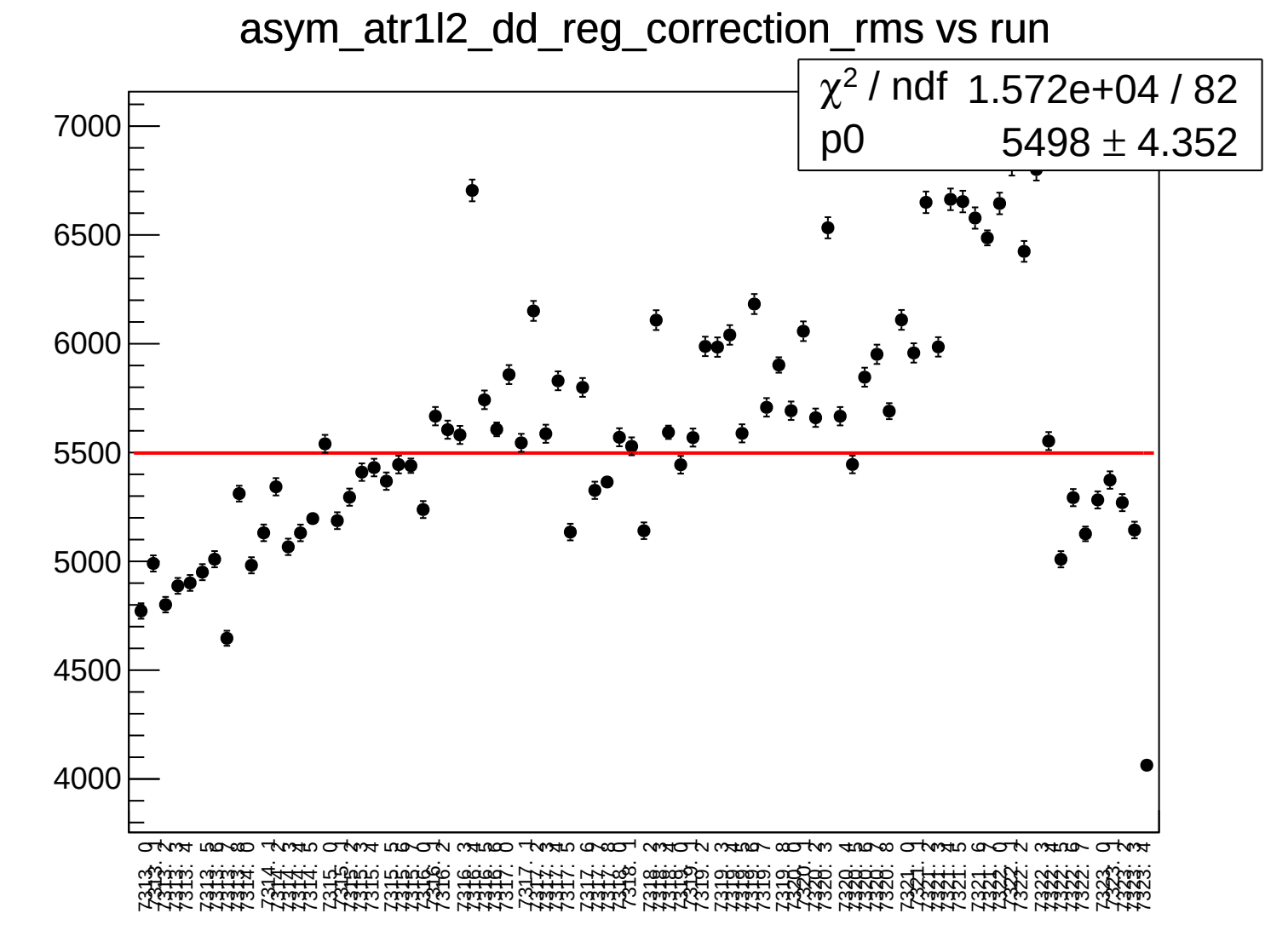

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 79.73 / 82
p0 −2031 ± 1892
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 673
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

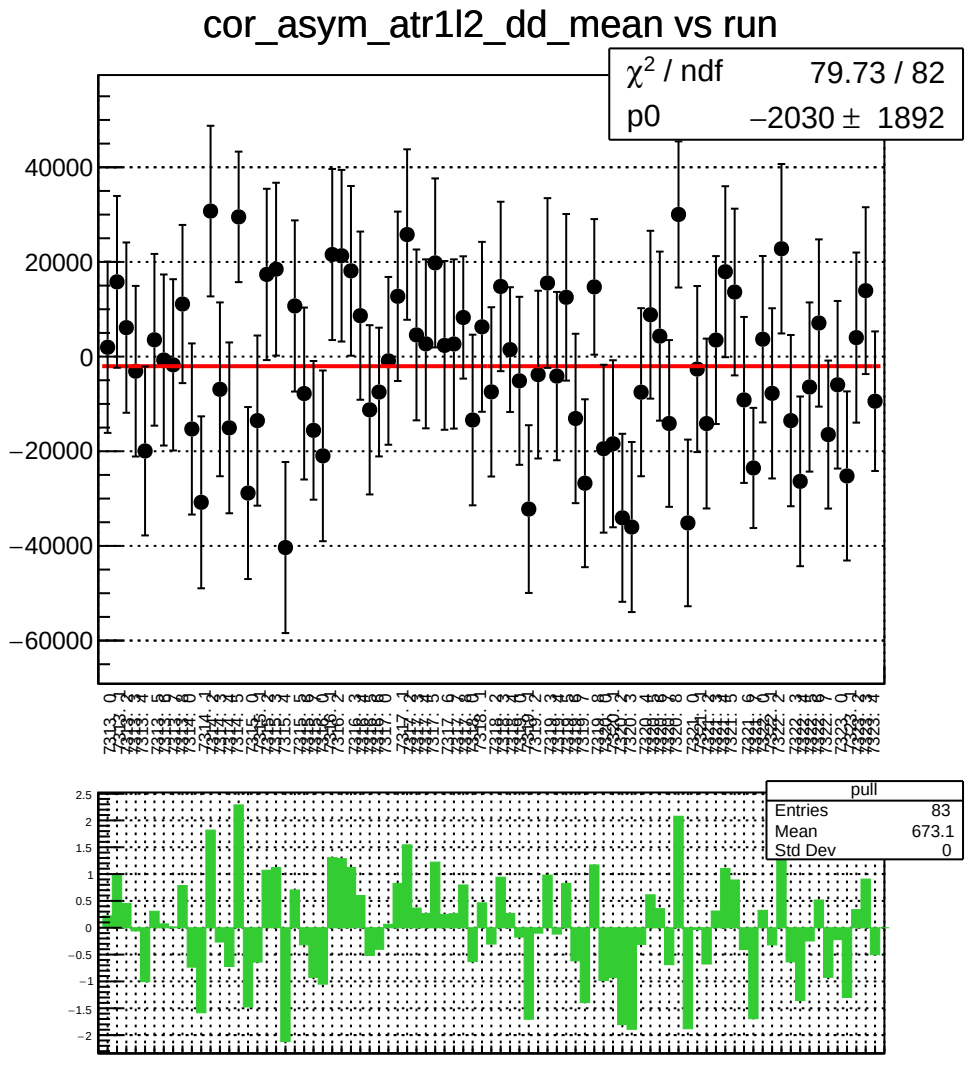

pull1D
Entries 83
Mean −0.00514
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

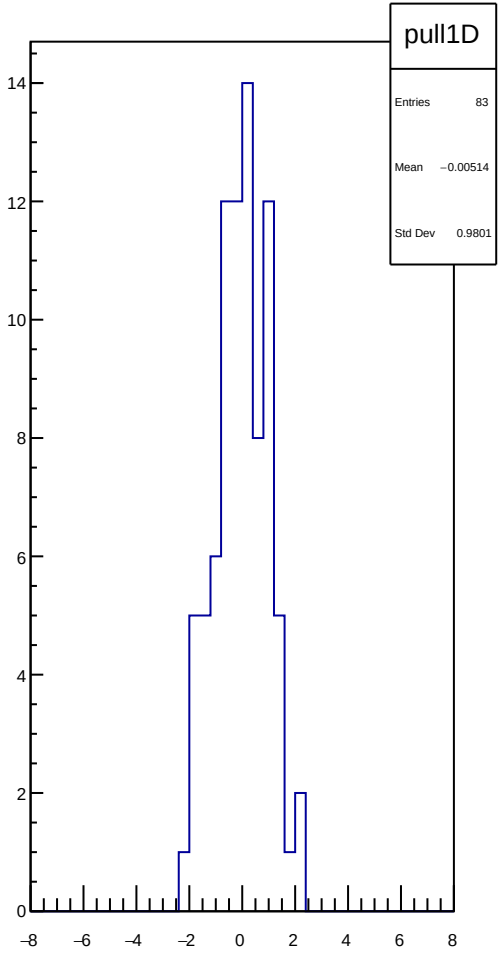

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 169.5 / 82
p0 1698 ± 1.338
1760
1740
1720
1700
1680
1660

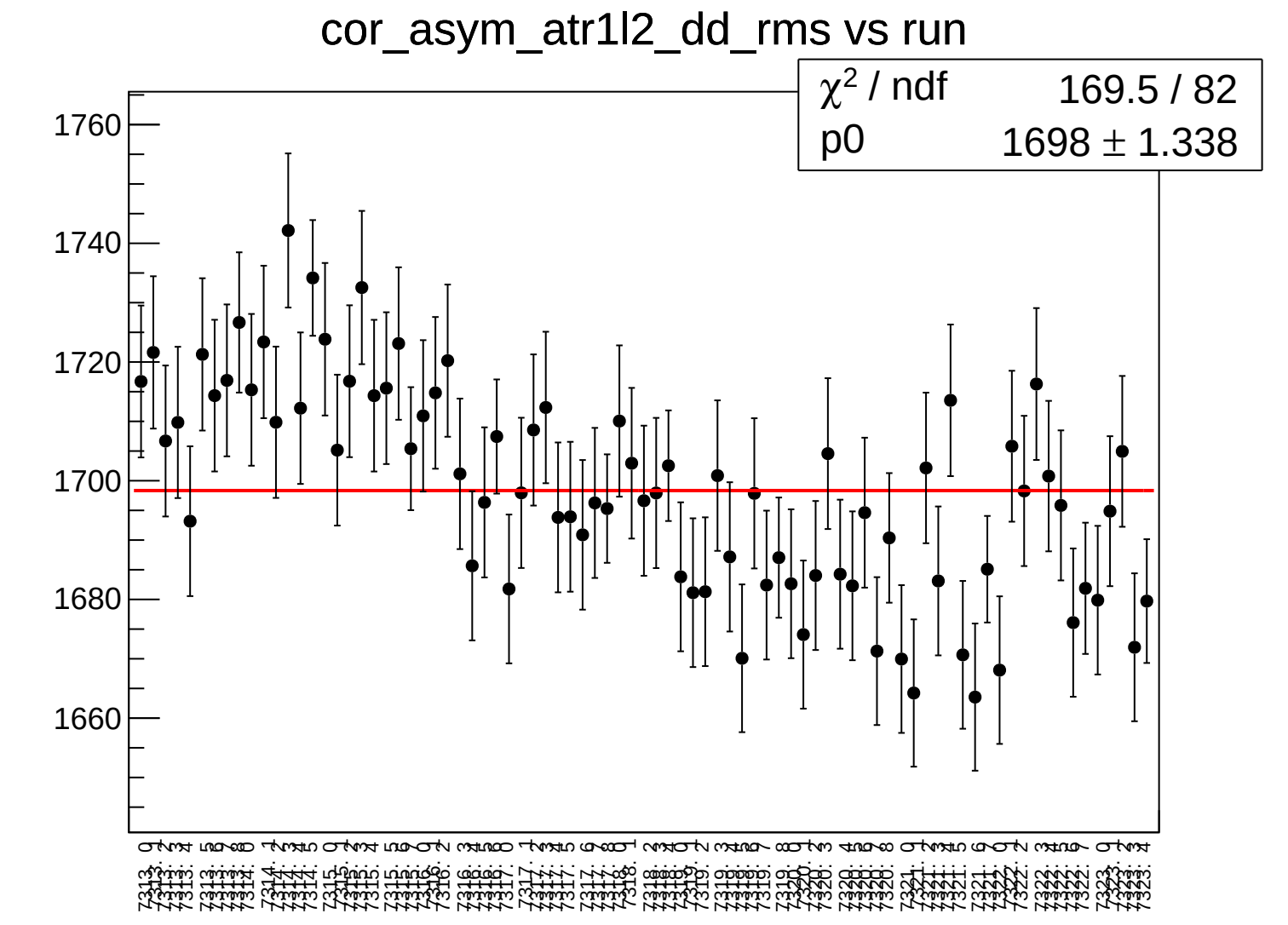

asym_atr1l2_dd_reg_correction_mean vs run
χ² / ndf 83.75 / 82
p0 −7175 ± 6155
pull
Entries 83
Mean 1706
Std Dev 0

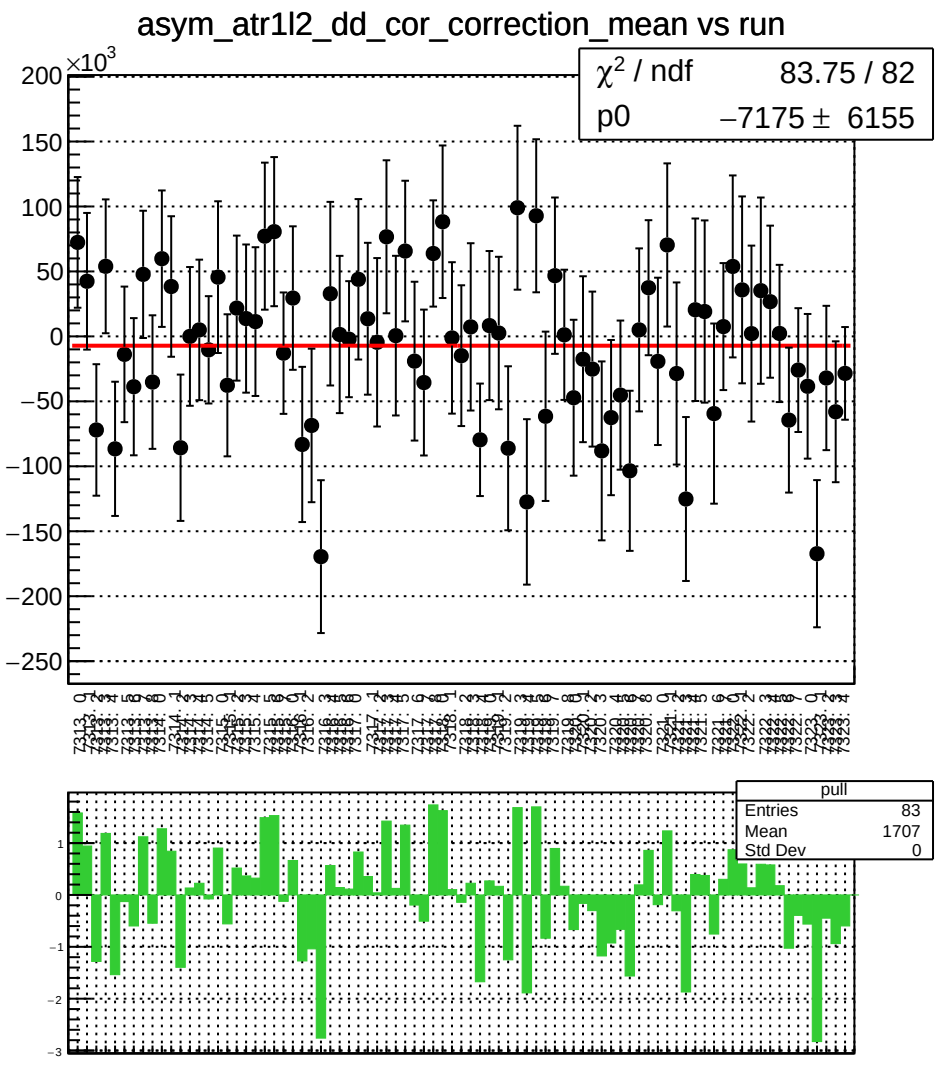

pull1D
Entries 83
Mean −0.002856
Std Dev 1.004

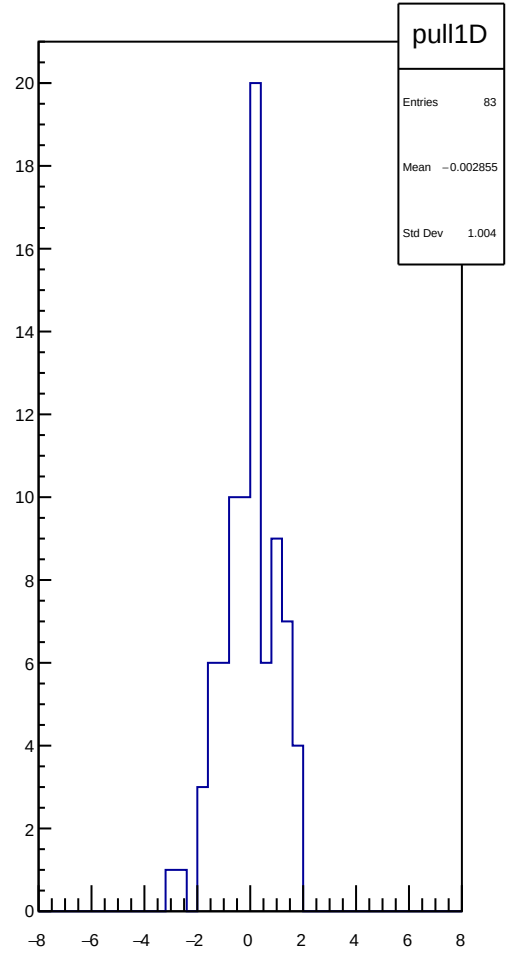

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.572e+04 / 82
p0 5498 ± 4.352
7000
6500
6000
5500
5000
4500
4000

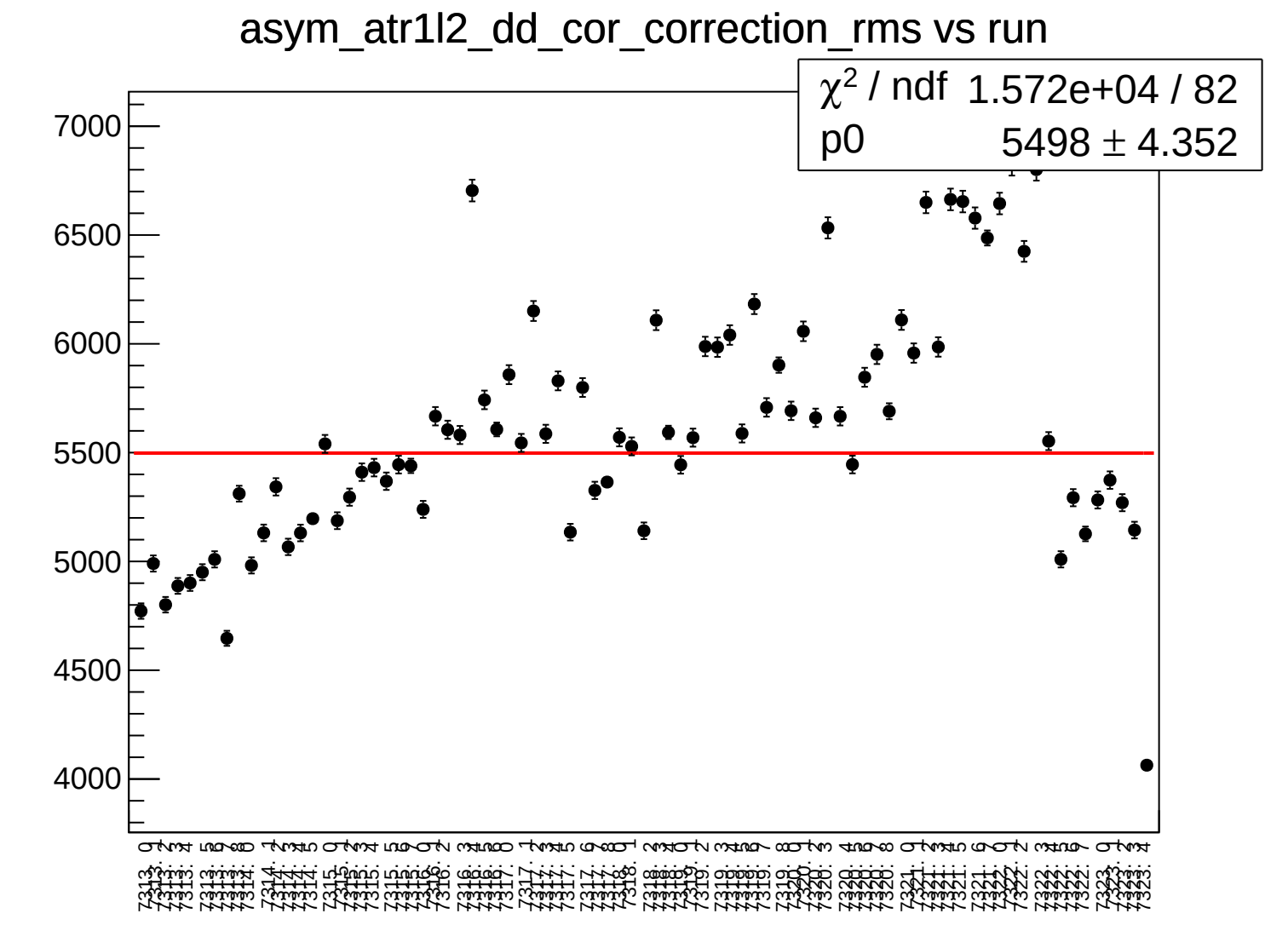

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.73 / 82
p0 −2030 ± 1892
pull
Entries 83
Mean 673.1
Std Dev 0

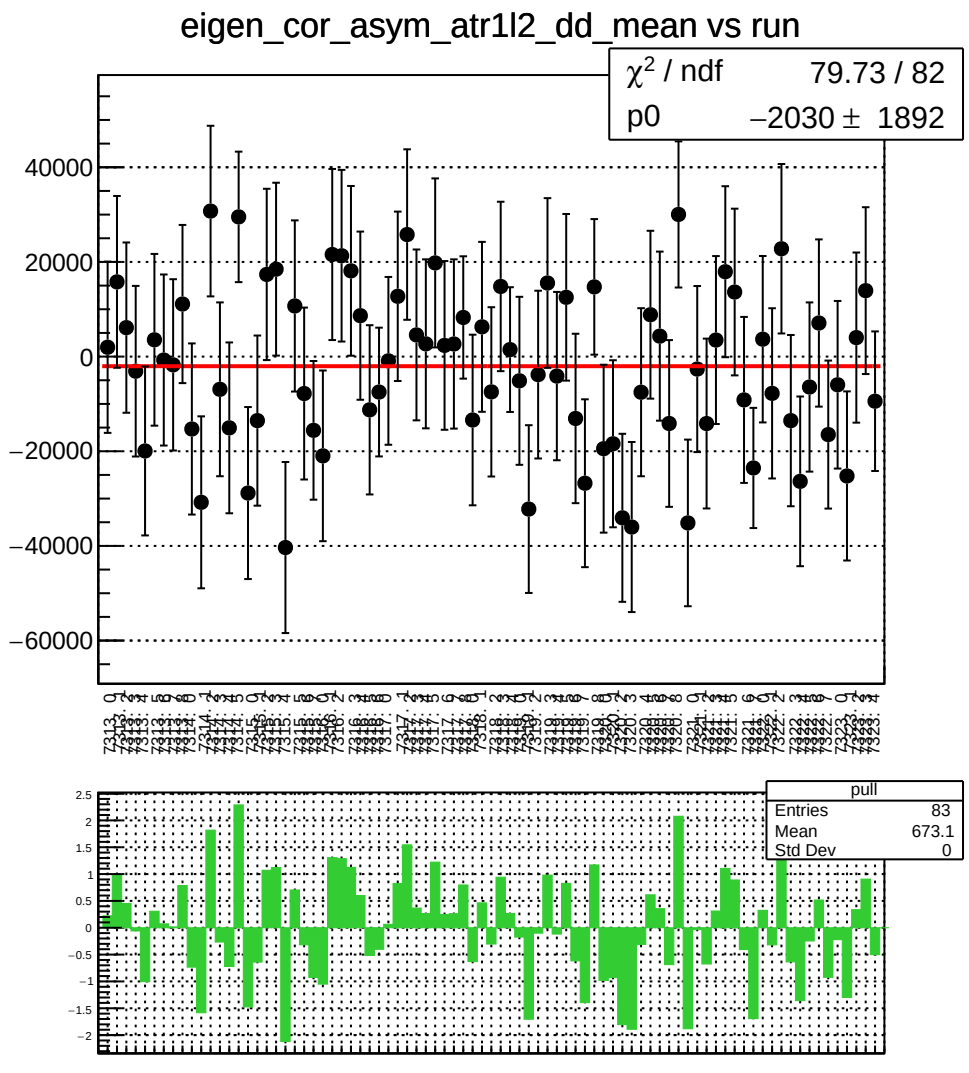

pull1D
Entries 83
Mean −0.00514
Std Dev 0.9801

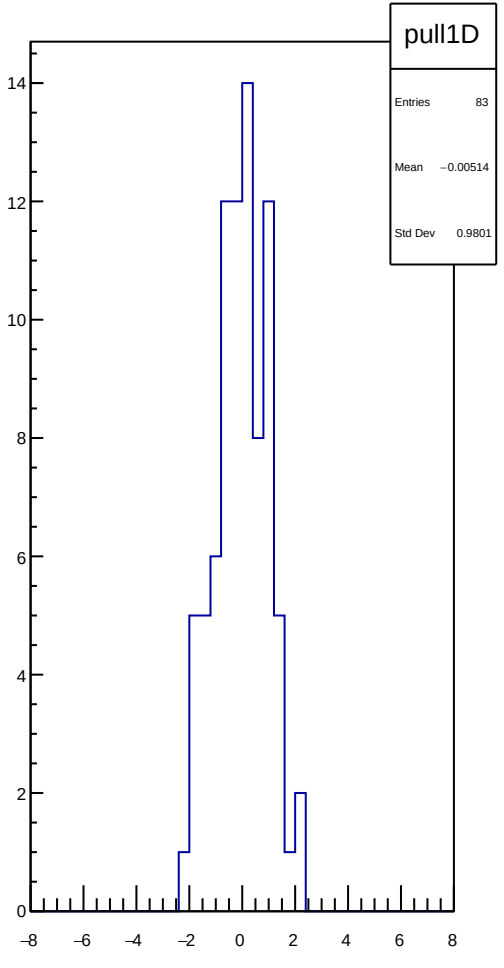

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 169.5 / 82
p0 1698 ± 1.338
1760
1740
1720
1700
1680
1660

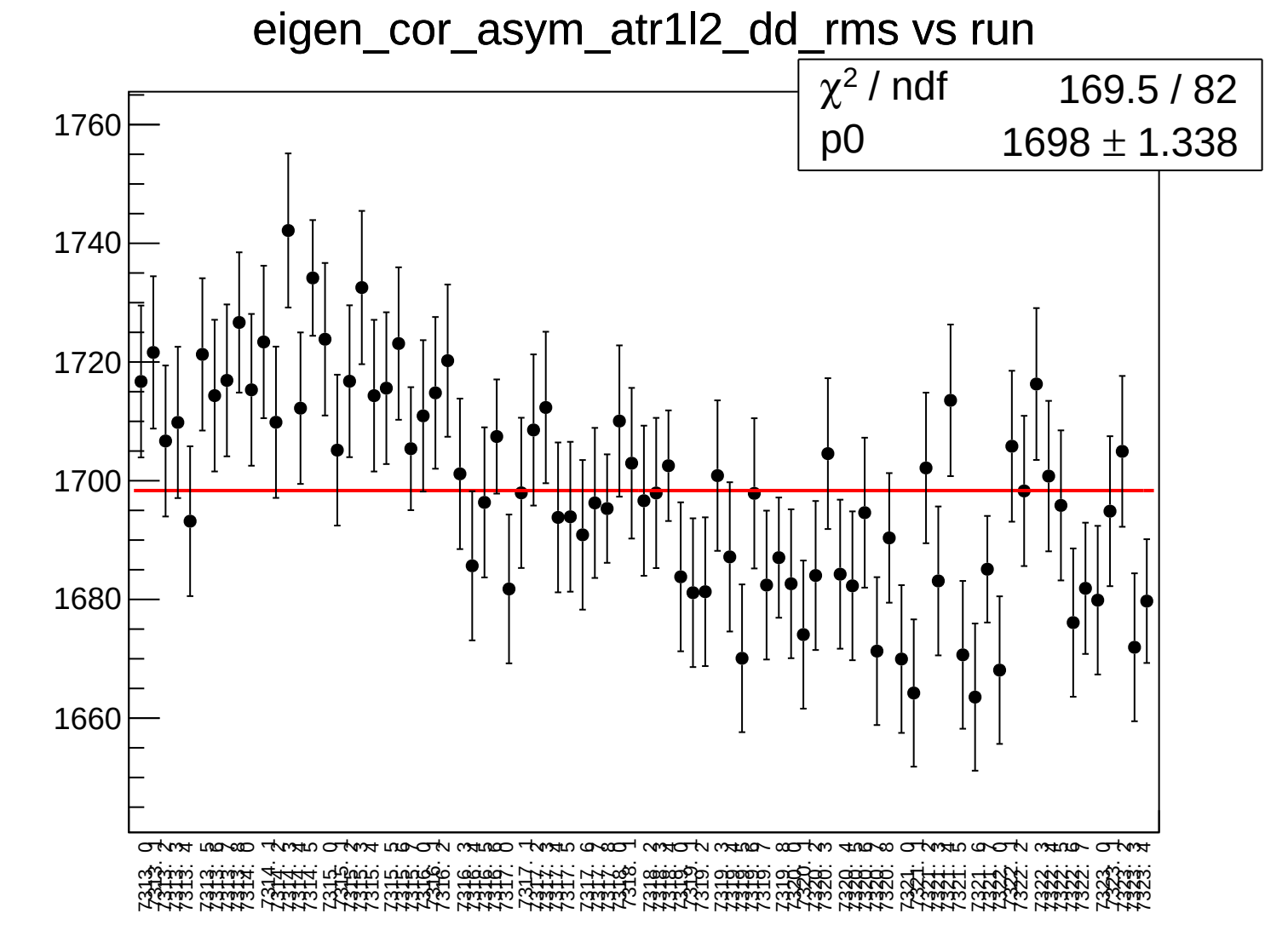

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.75 / 82
p0 −7175 ± 6155
pull
Entries 83
Mean 1707
Std Dev 0

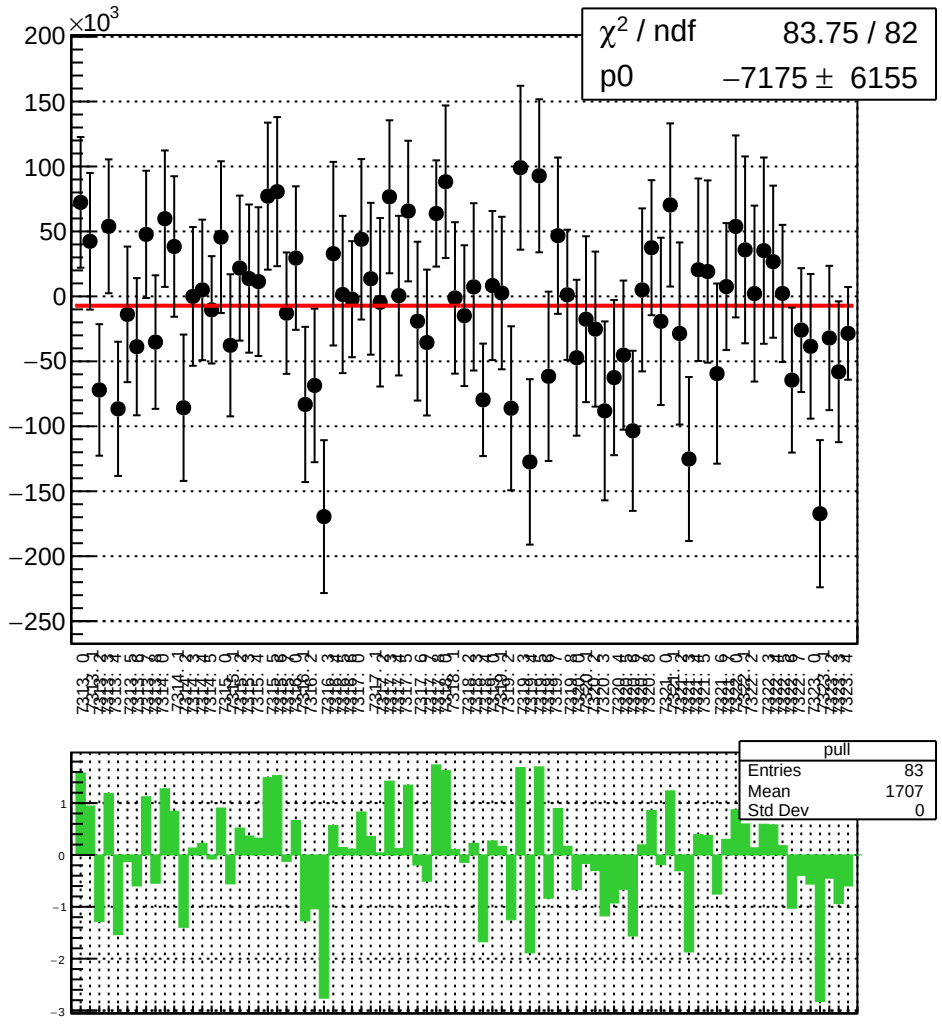

pull1D
Entries 83
Mean −0.002855
Std Dev 1.004

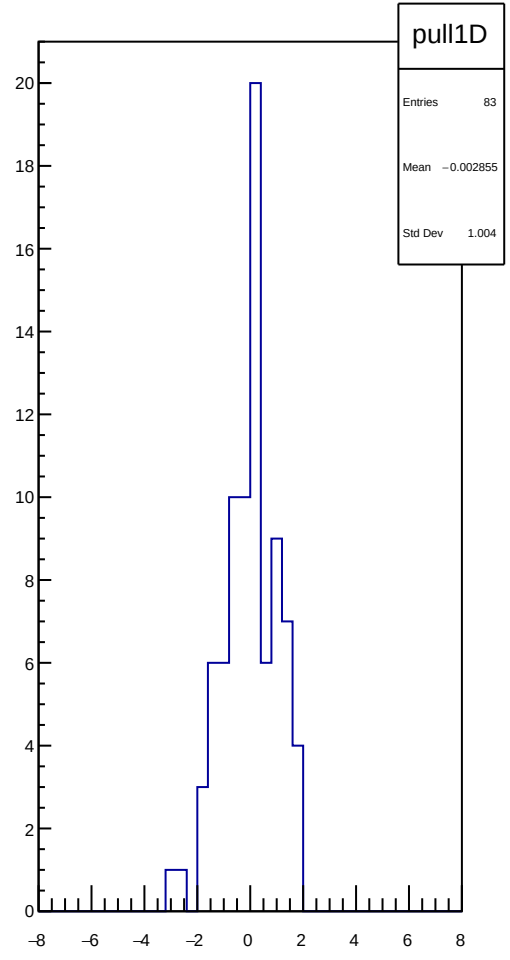

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.572e+04 / 82
p0 5498 ± 4.352
7000
6500
6000
5500
5000
4500
4000

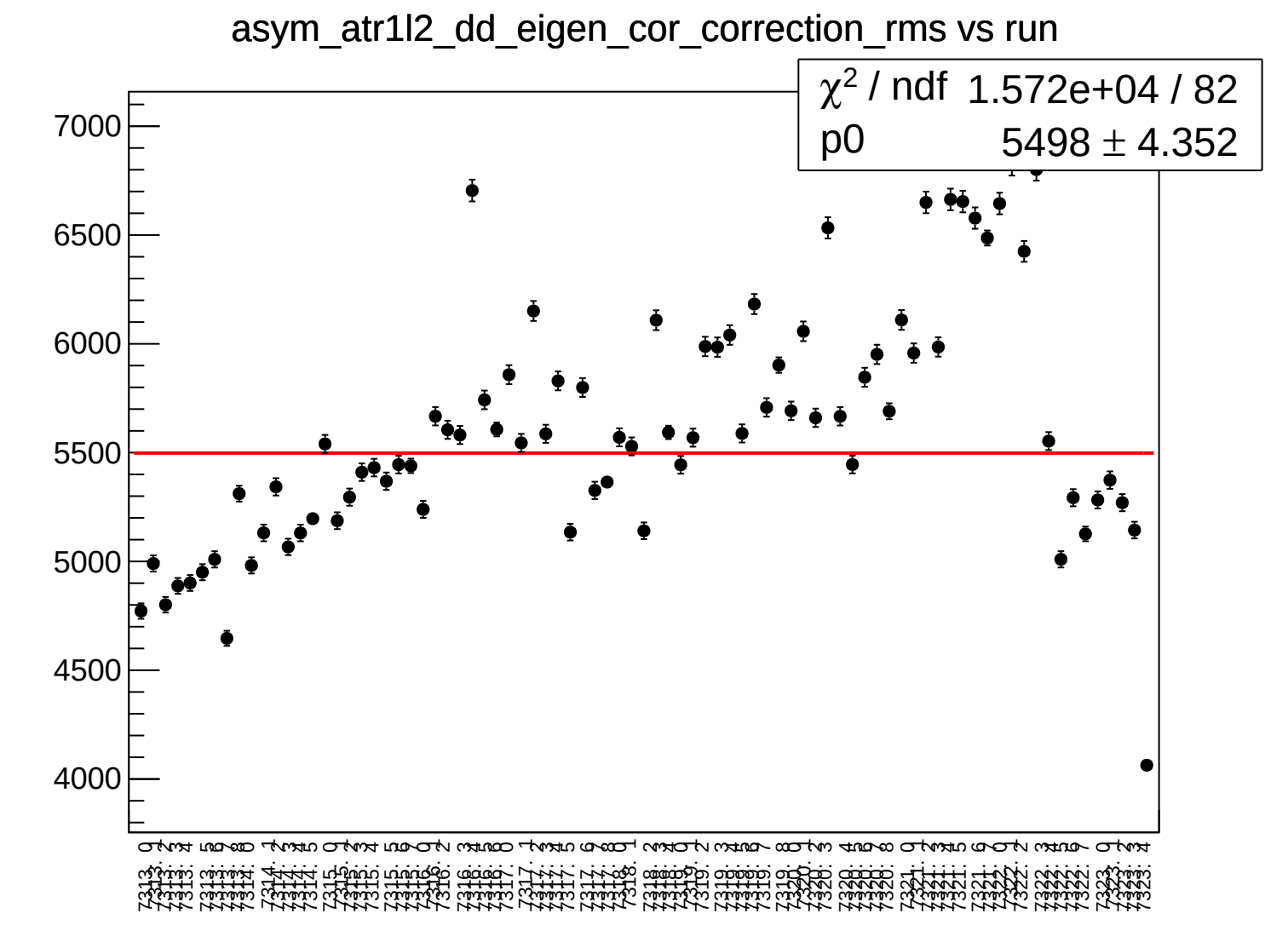

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.73 / 82
p0 −2030 ± 1892
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 673.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

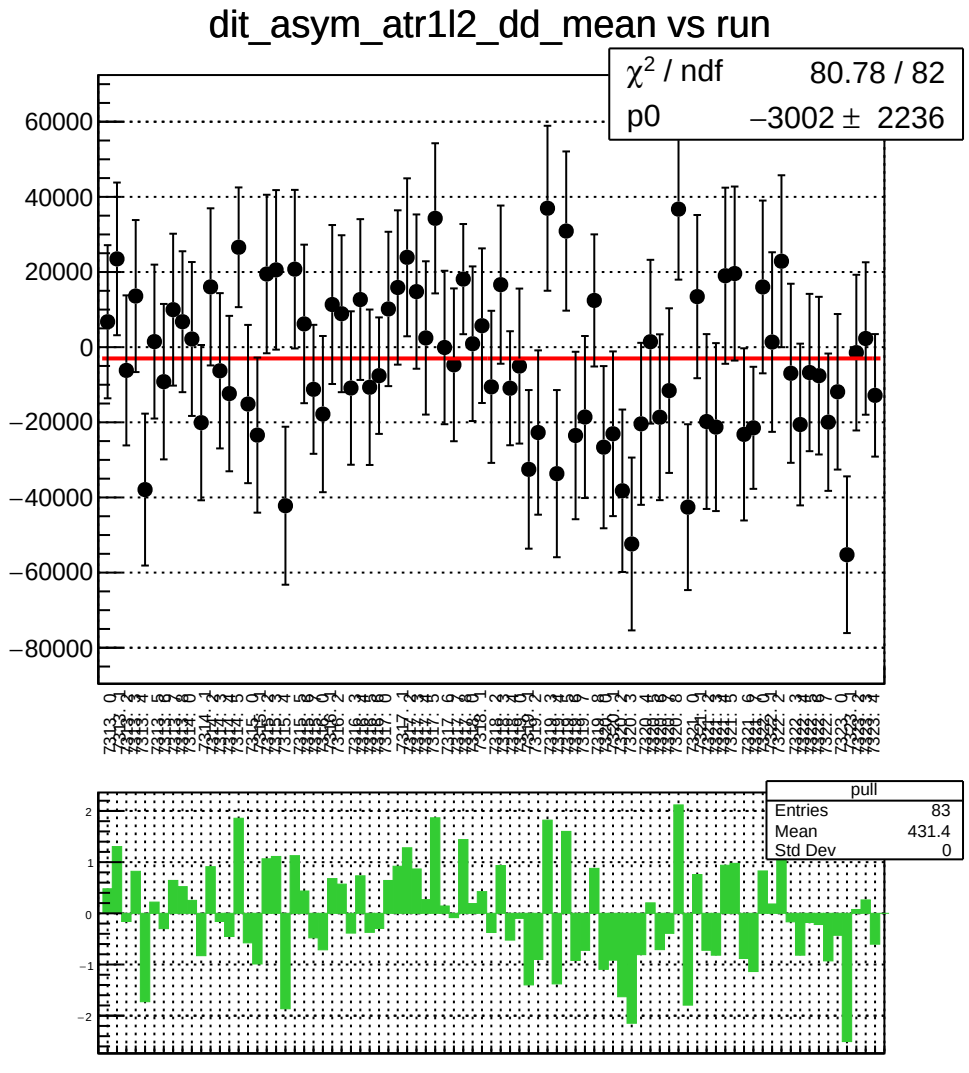

pull1D
Entries 83
Mean −0.00514
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

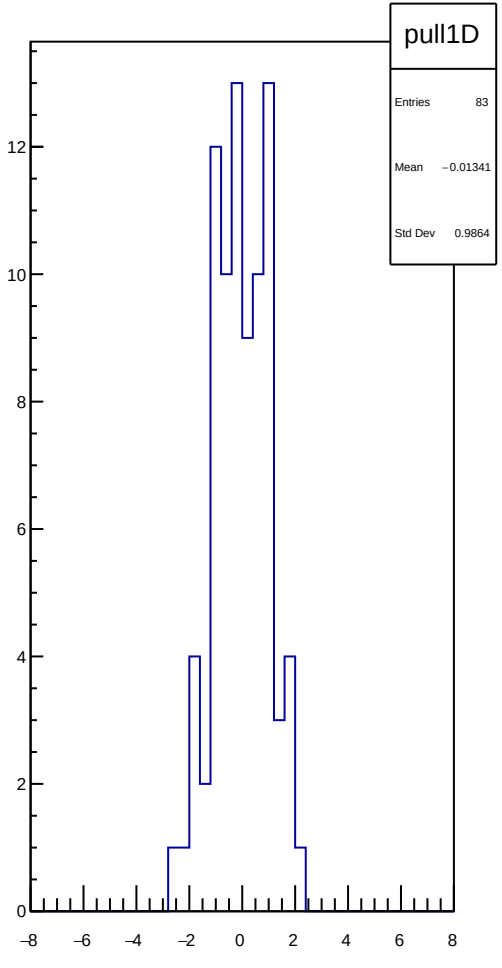

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 169.5 / 82
p0 1698 ± 1.338
1760
1740
1720
1700
1680
1660

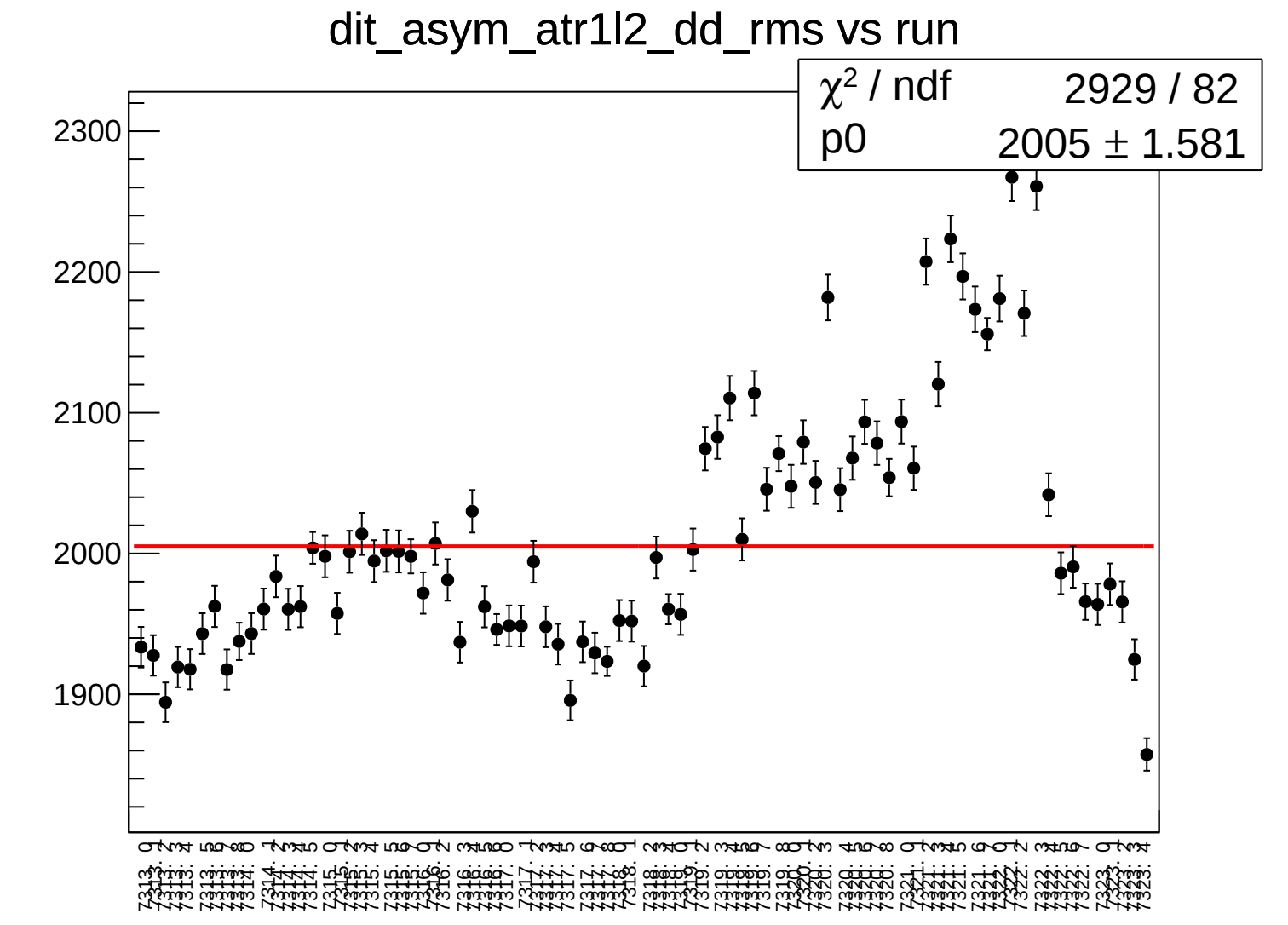

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.75 / 82
p0 −7175 ± 6155
pull
Entries 83
Mean 1707
Std Dev 0

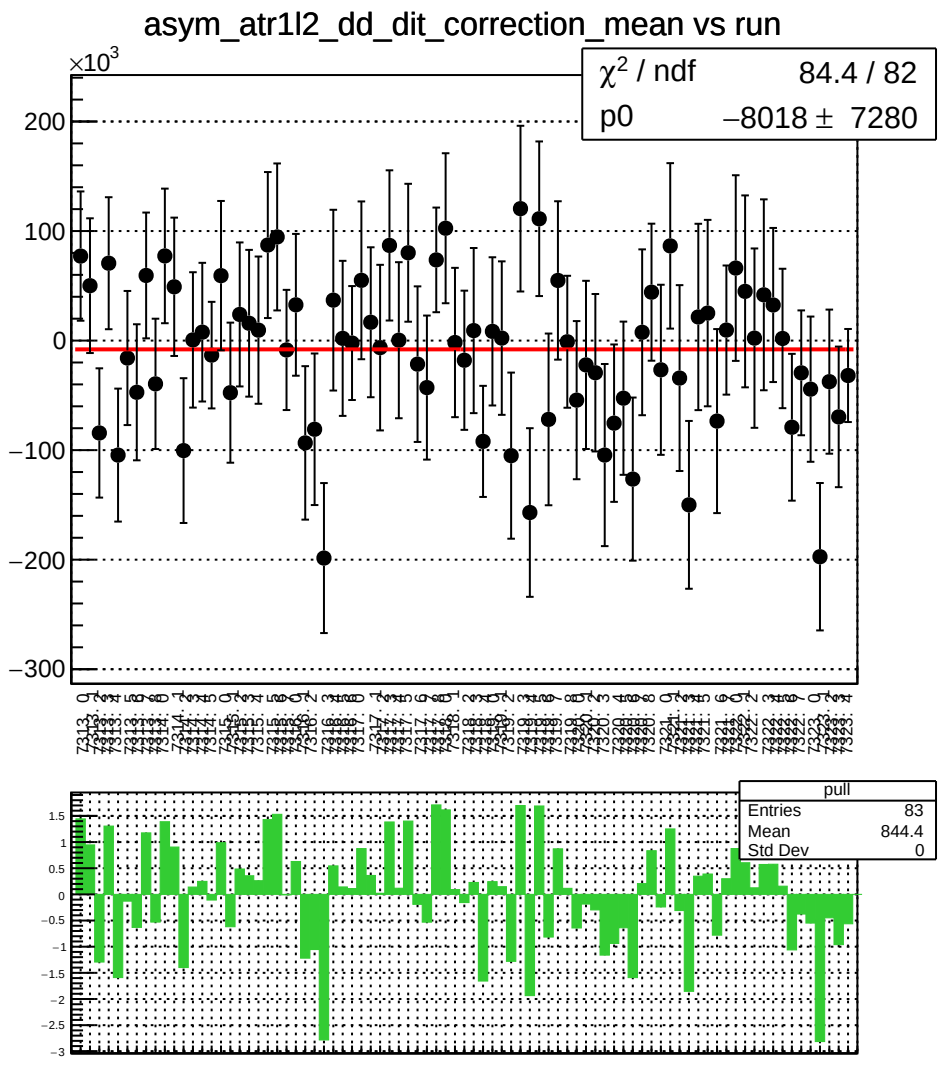

pull1D
Entries 83
Mean −0.002855
Std Dev 1.004

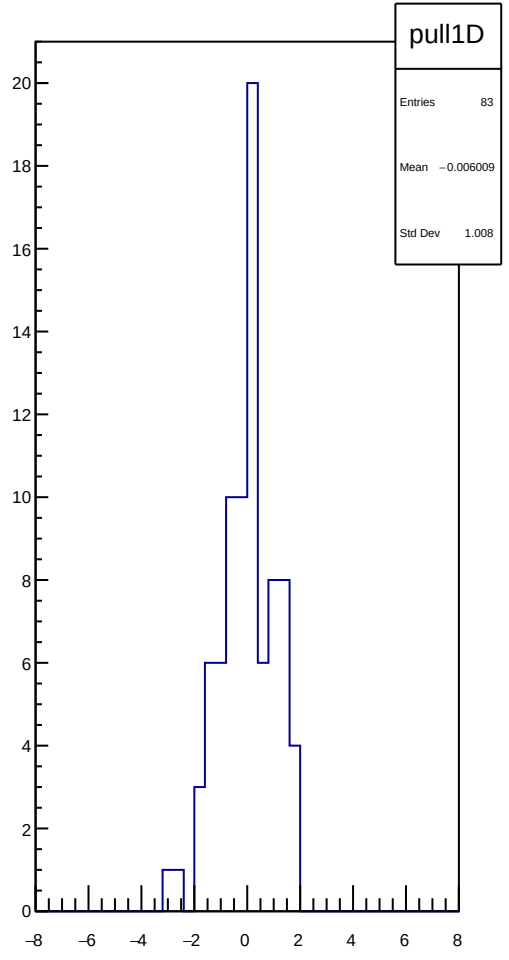

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.572e+04 / 82
p0 5498 ± 4.352
7000
6500
6000
5500
5000
4500
4000

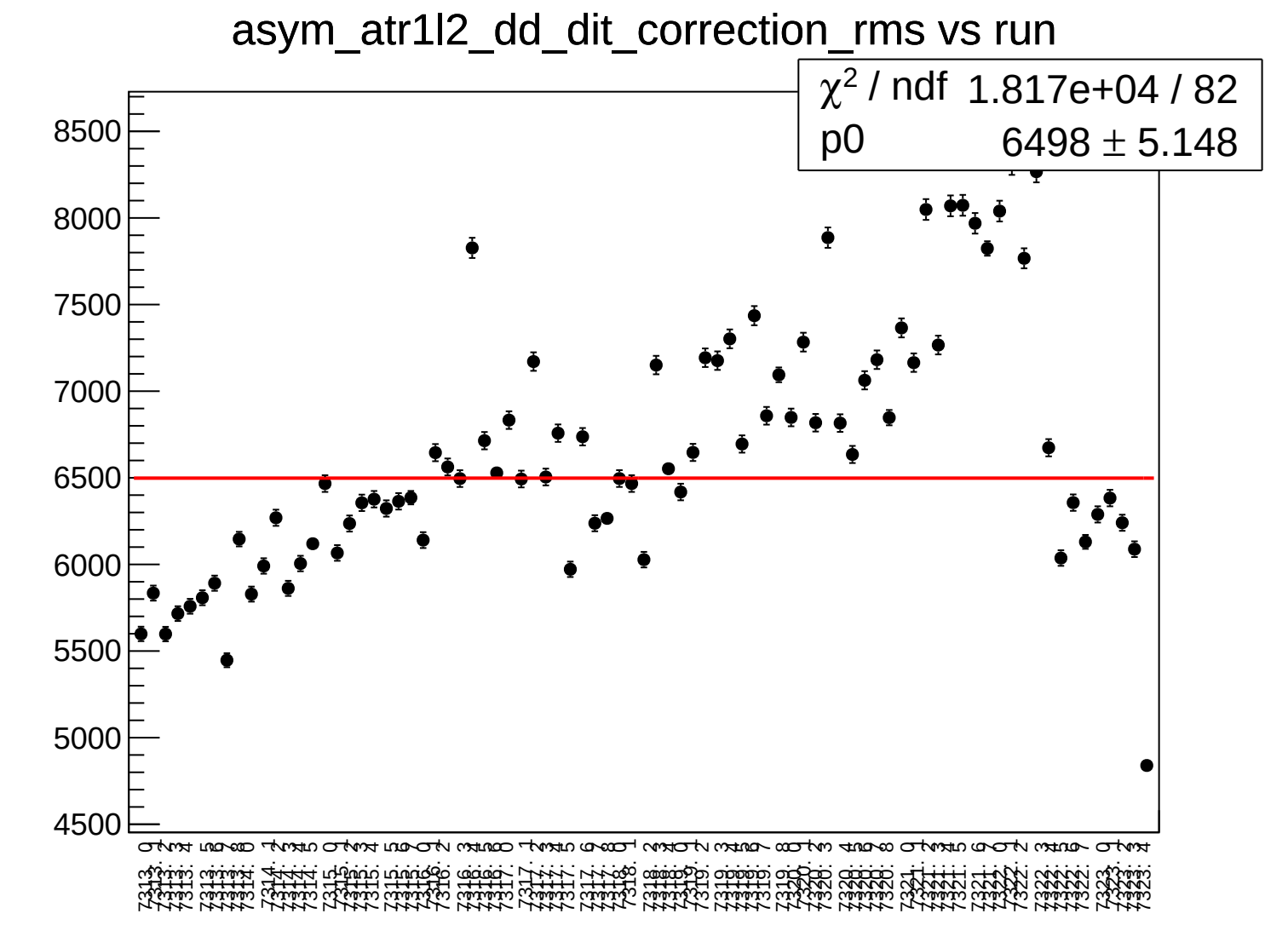

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 80.78 / 82
p0 −3002 ± 2236
pull
Entries 83
Mean 431.4
Std Dev 0

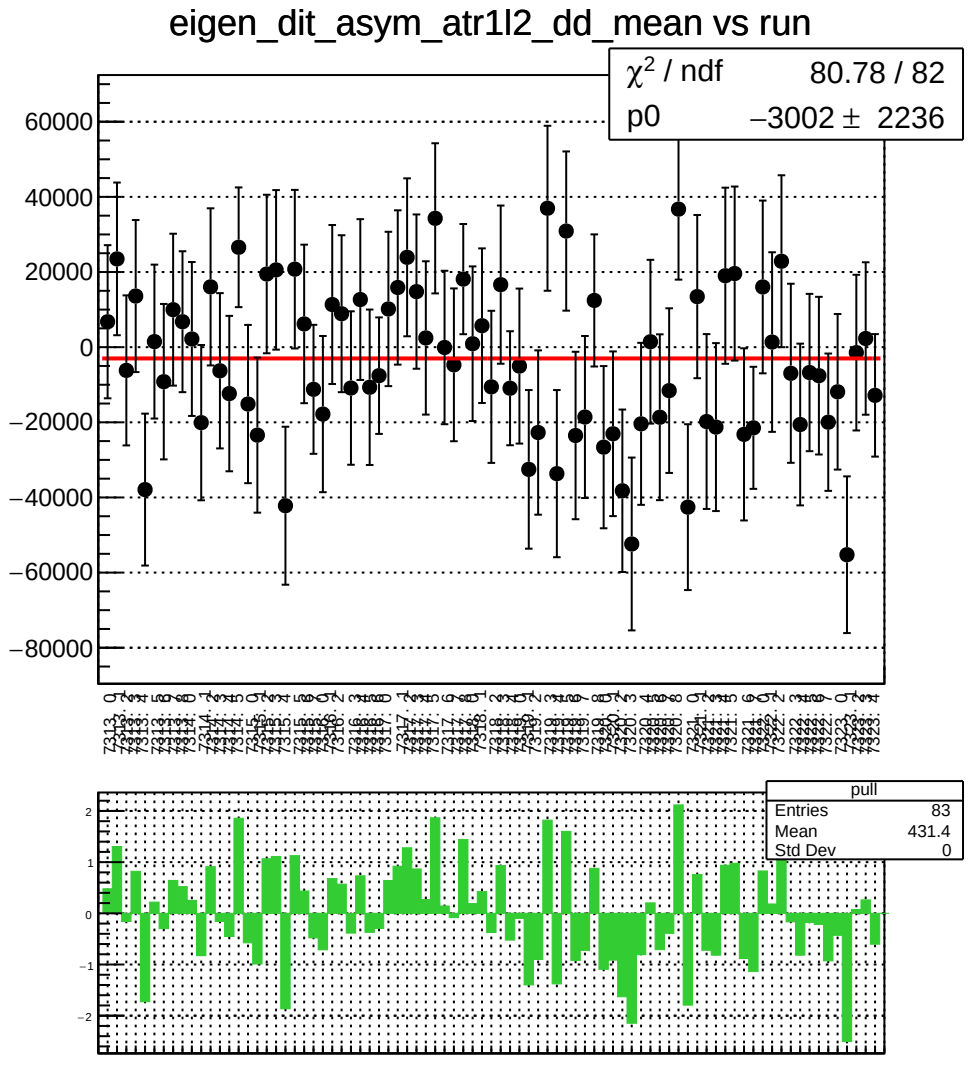

pull1D
Entries 83
Mean −0.01341
Std Dev 0.9864

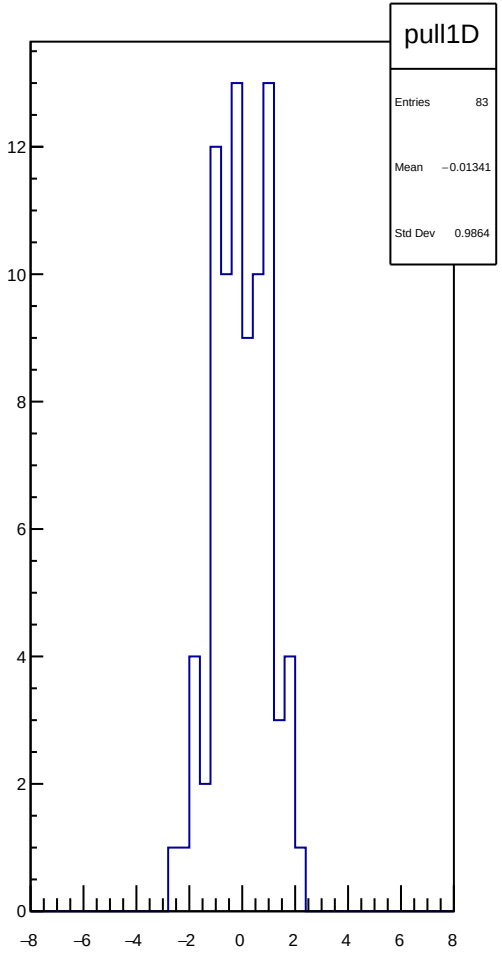

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2929 / 82
p0 2005 ± 1.581
2300
2200
2100
2000
1900

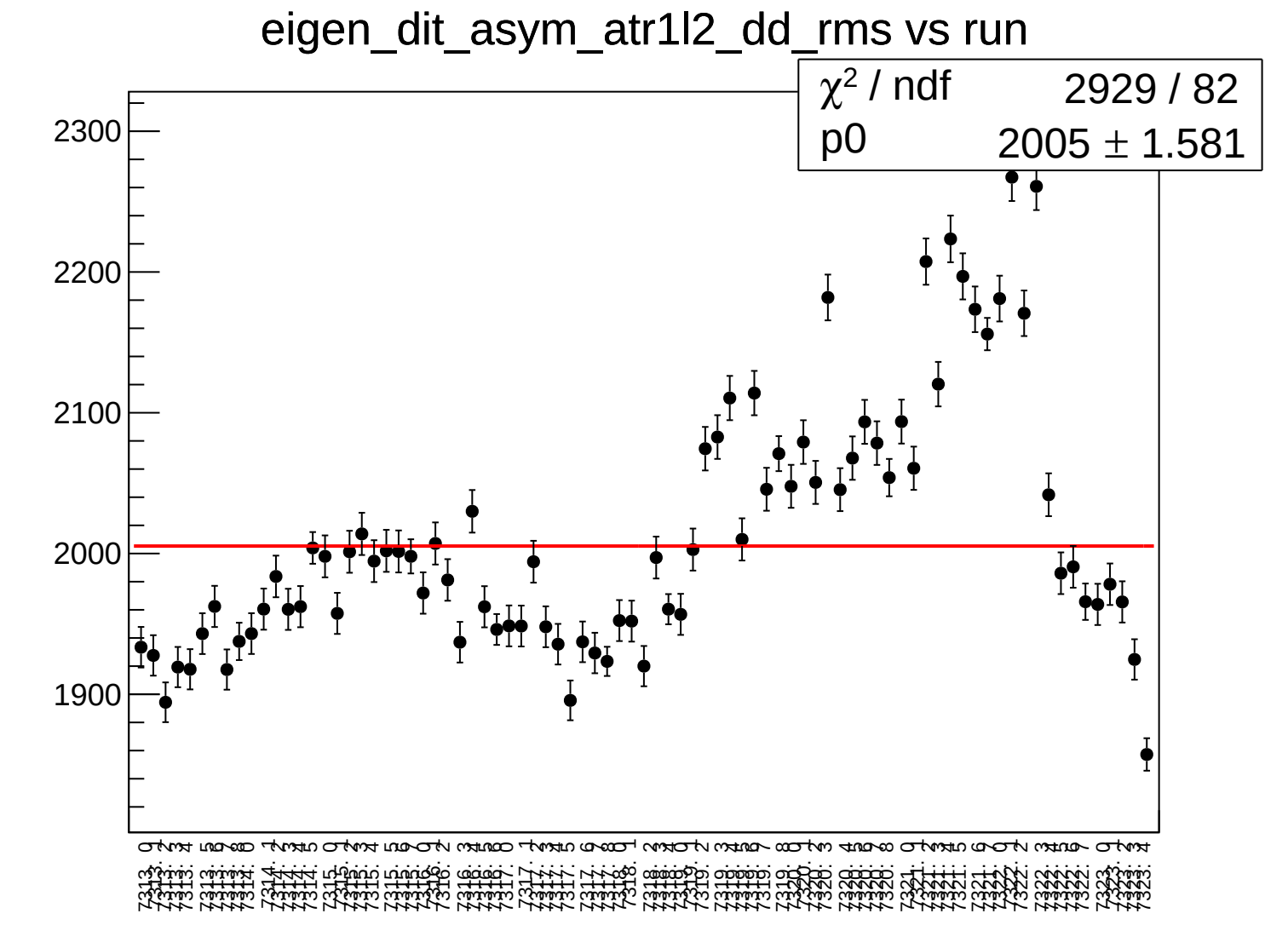

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.4 / 82
p0 −8018 ± 7280
200
100
0
−100
−200
−300
pull
Entries 83
Mean 844.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

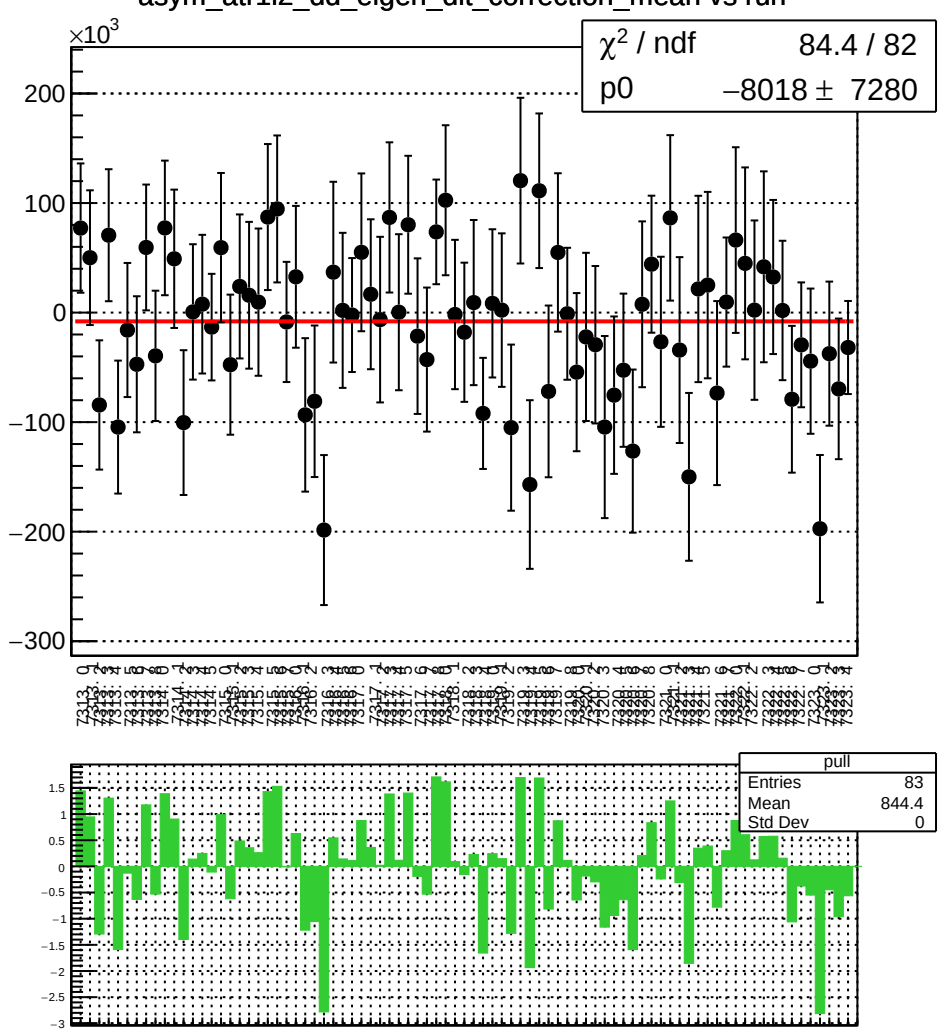

pull1D
Entries 83
Mean −0.006009
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

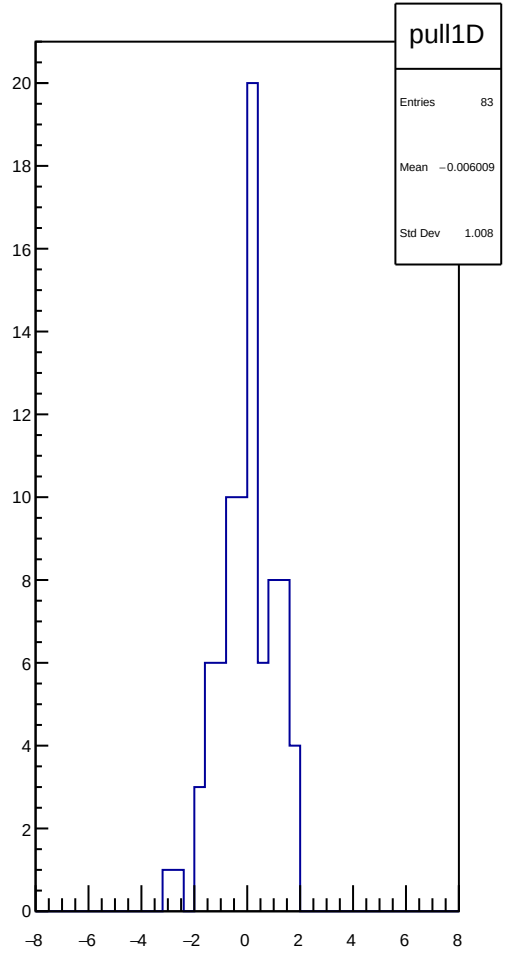

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.817e+04 / 82
p0 6498 ± 5.148
8500
8000
7500
7000
6500
6000
5500
5000
4500

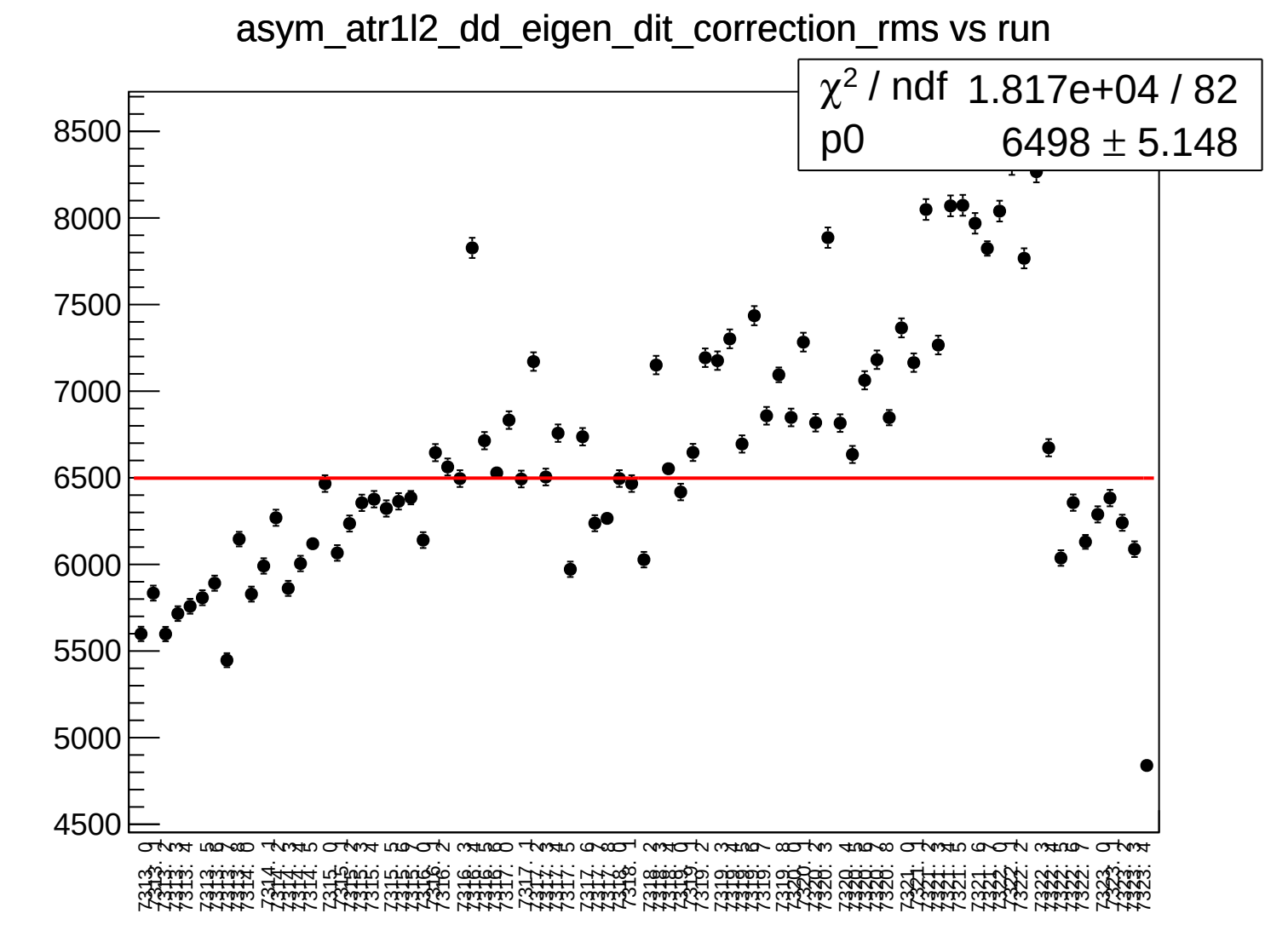

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 80.78 / 82
p0 −3002 ± 2236
pull
Entries 83
Mean 431.4
Std Dev 0

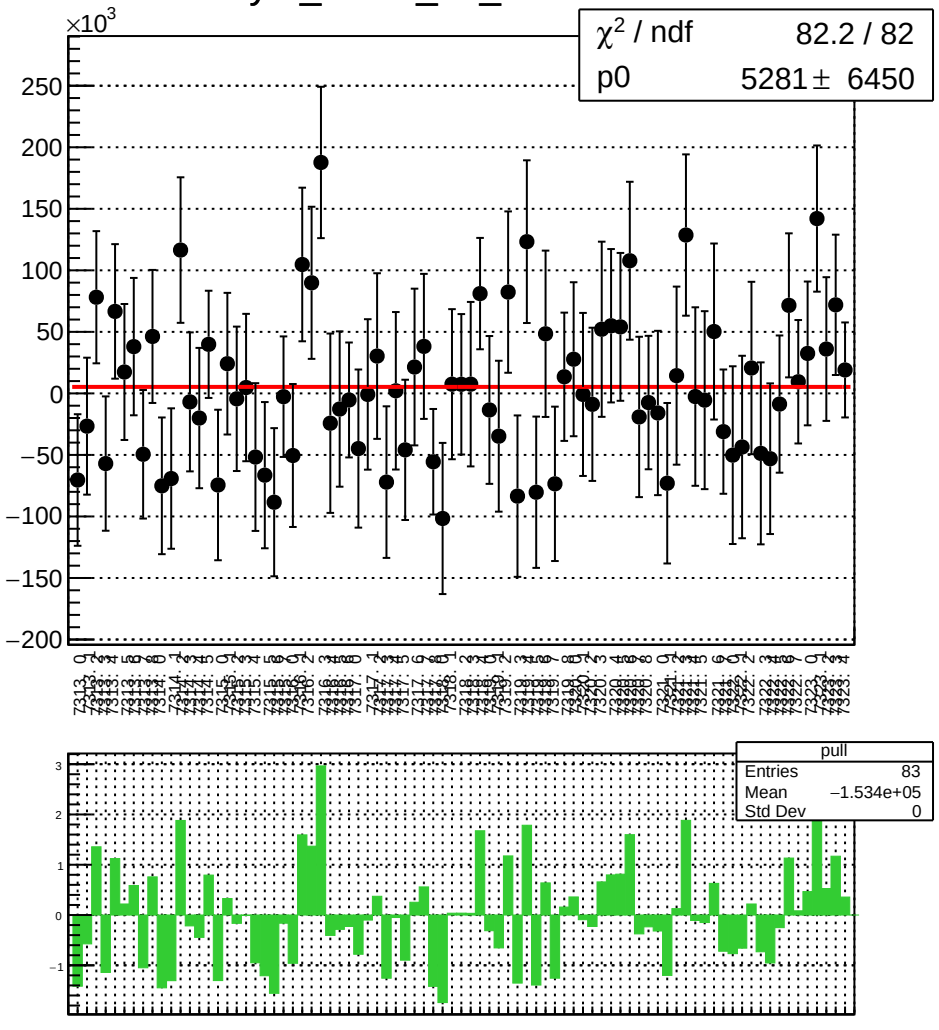

pull1D
Entries 83
Mean −0.01341
Std Dev 0.9864

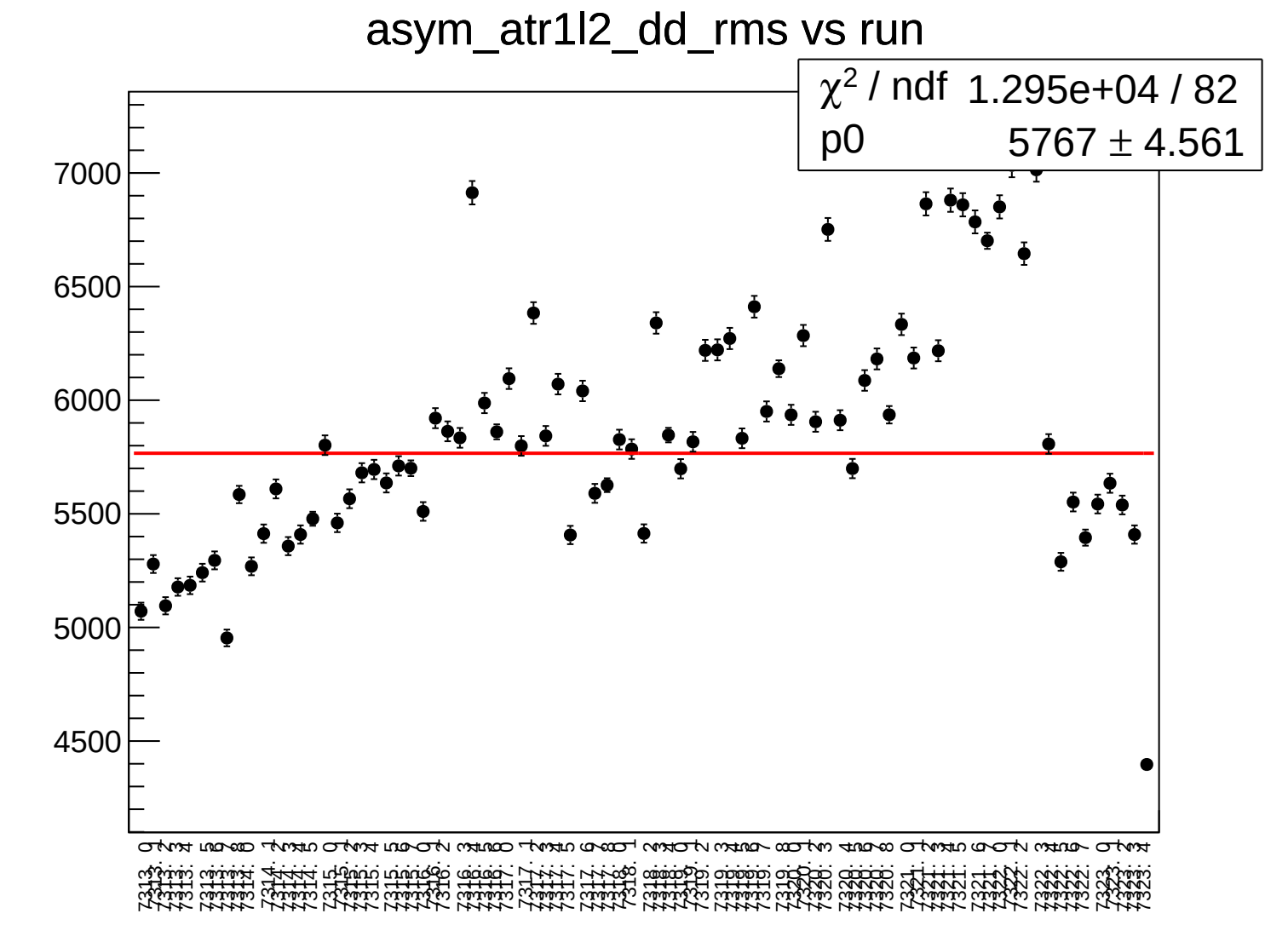

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2929 / 82
p0 2005 ± 1.581
2300
2200
2100
2000
1900

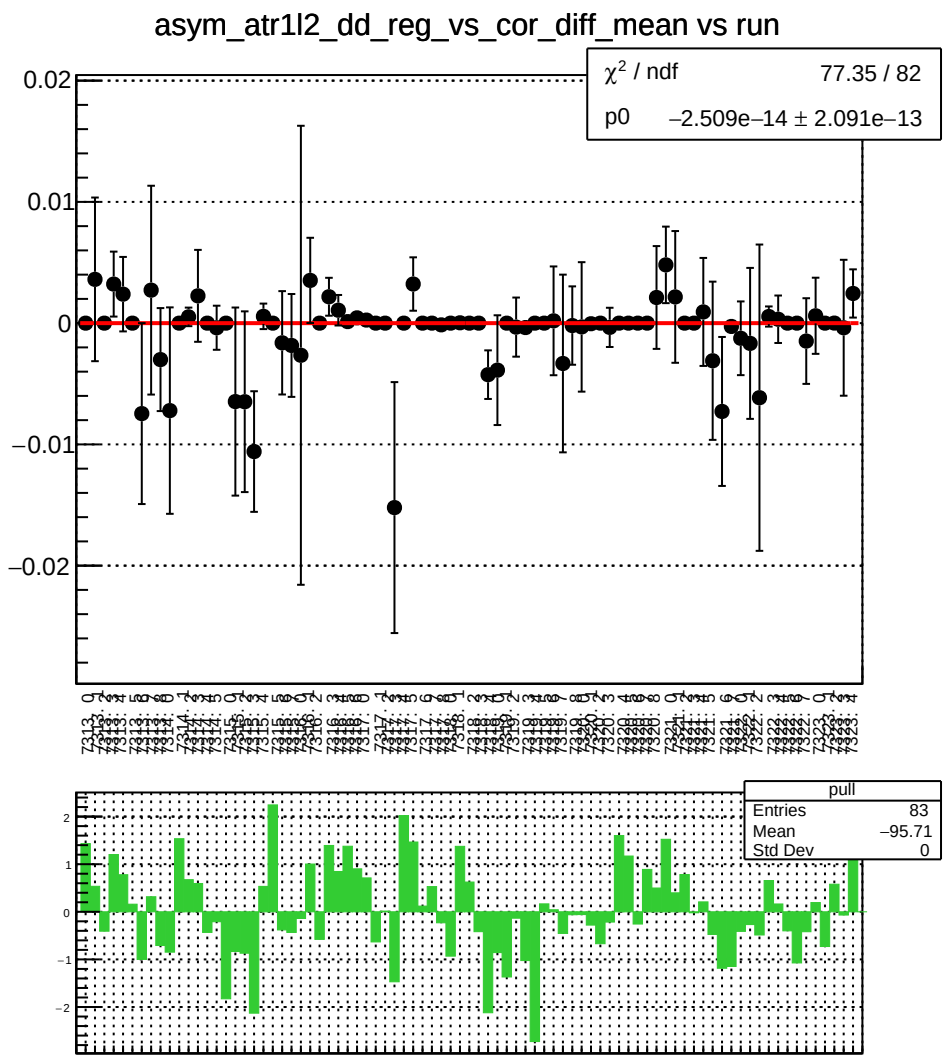

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.4 / 82
p0 −8018 ± 7280
pull
Entries 83
Mean 844.4
Std Dev 0

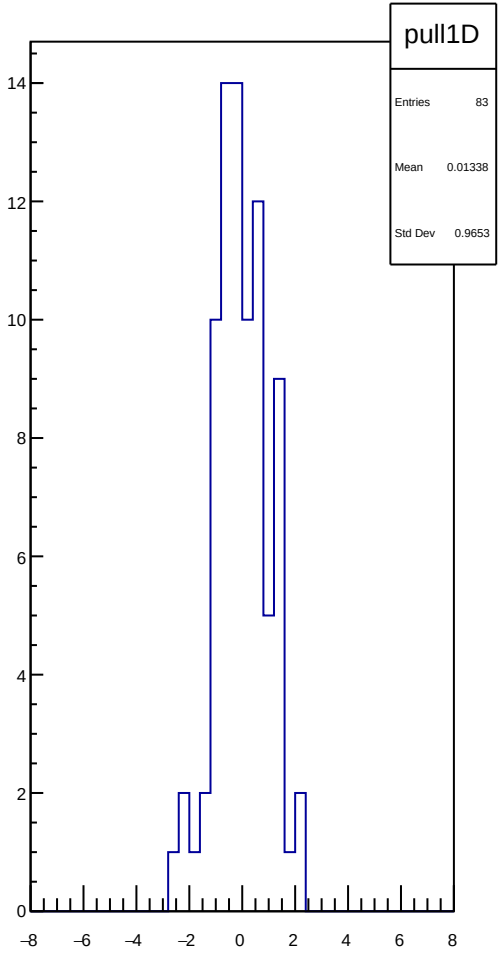

pull1D
Entries 83
Mean −0.006009
Std Dev 1.008

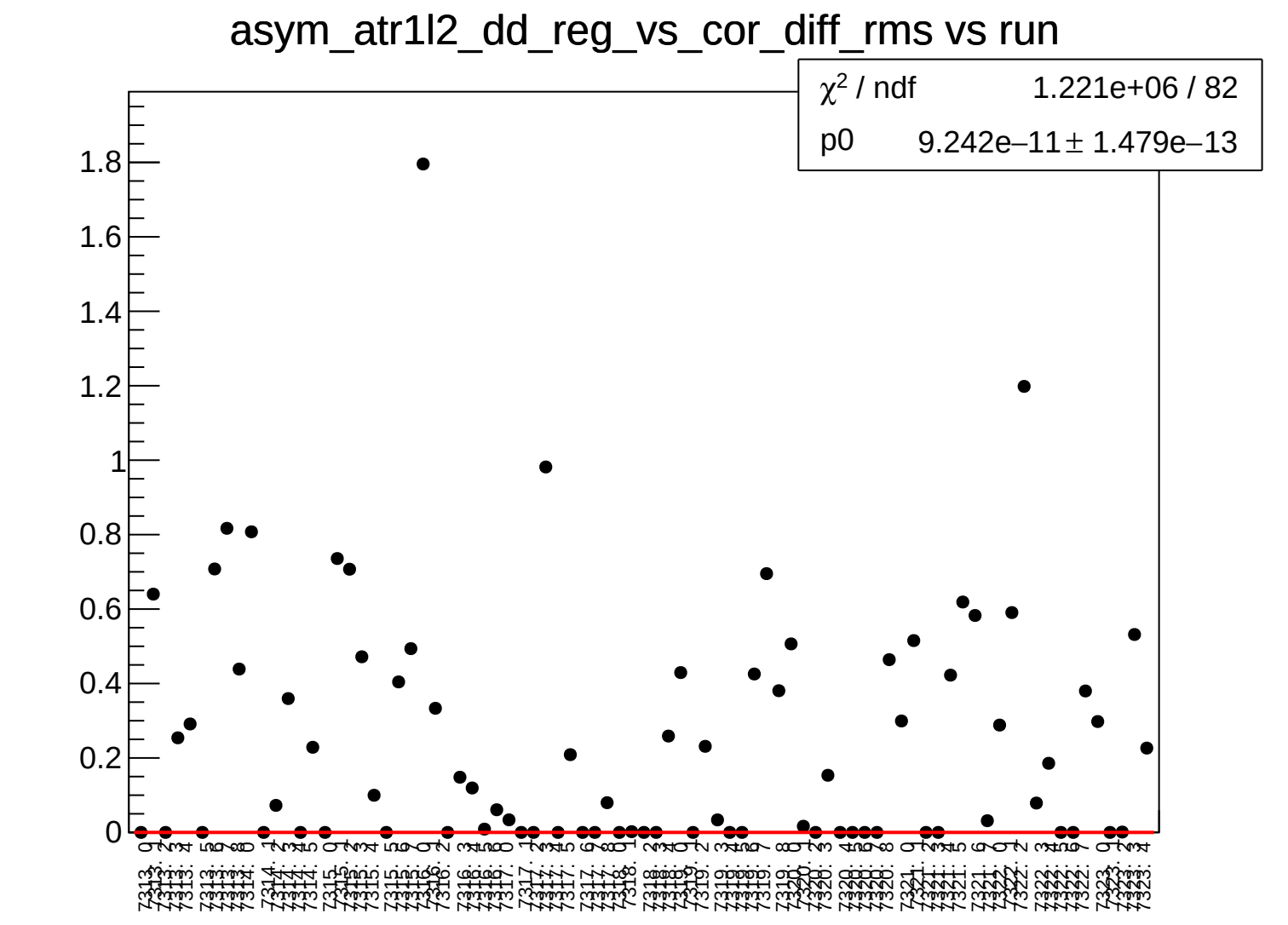

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.817e+04 / 82
p0 6498 ± 5.148
8500
8000
7500
7000
6500
6000
5500
5000
4500

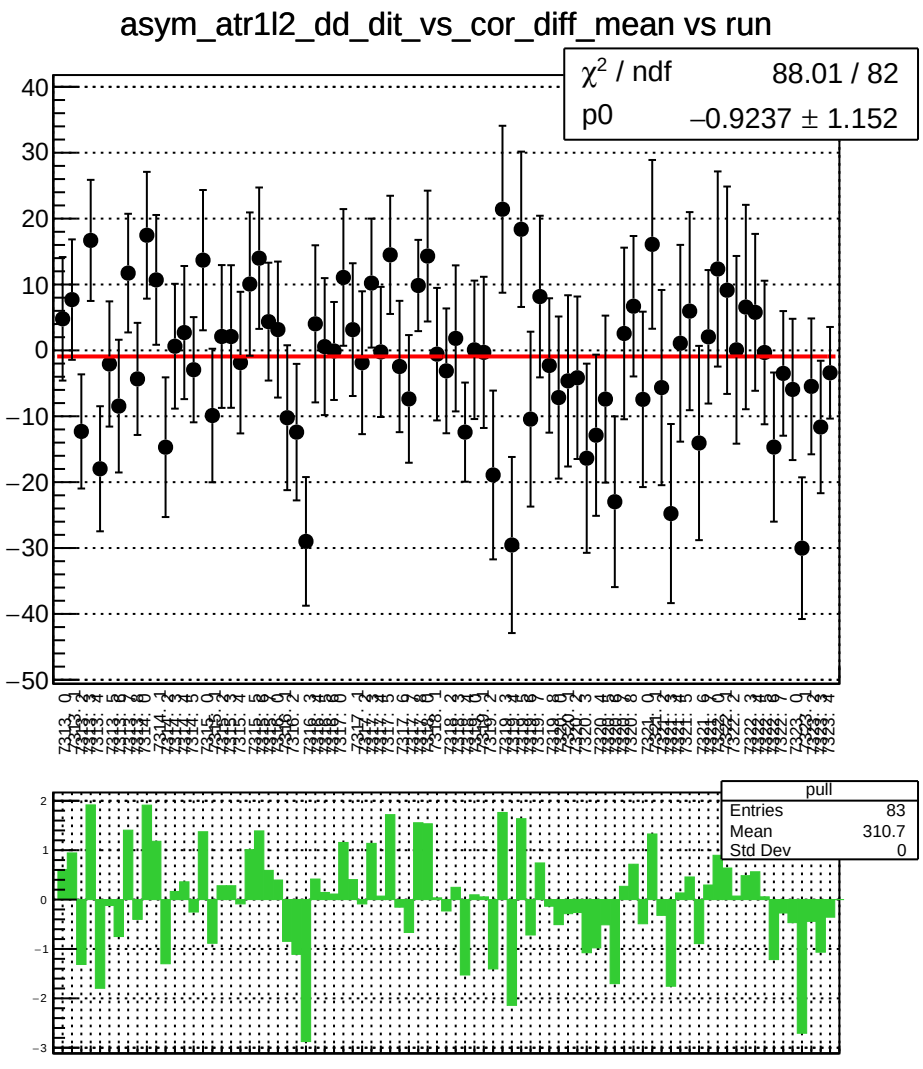

asym_atr1l2_dd_mean vs run
χ² / ndf 82.2 / 82
p0 5281 ± 6450
×10³
pull
Entries 83
Mean −1.534e+05
Std Dev 0
pull1D
Entries 83
Mean −2.319e−05
Std Dev 0.9952

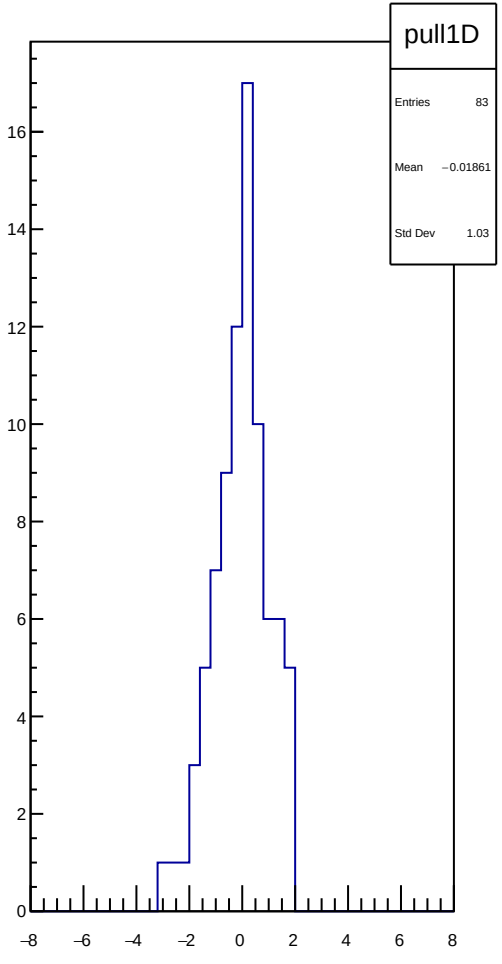

asym_atr1l2_dd_rms vs run
χ² / ndf 1.295e+04 / 82
p0 5767 ± 4.561
7000
6500
6000
5500
5000
4500

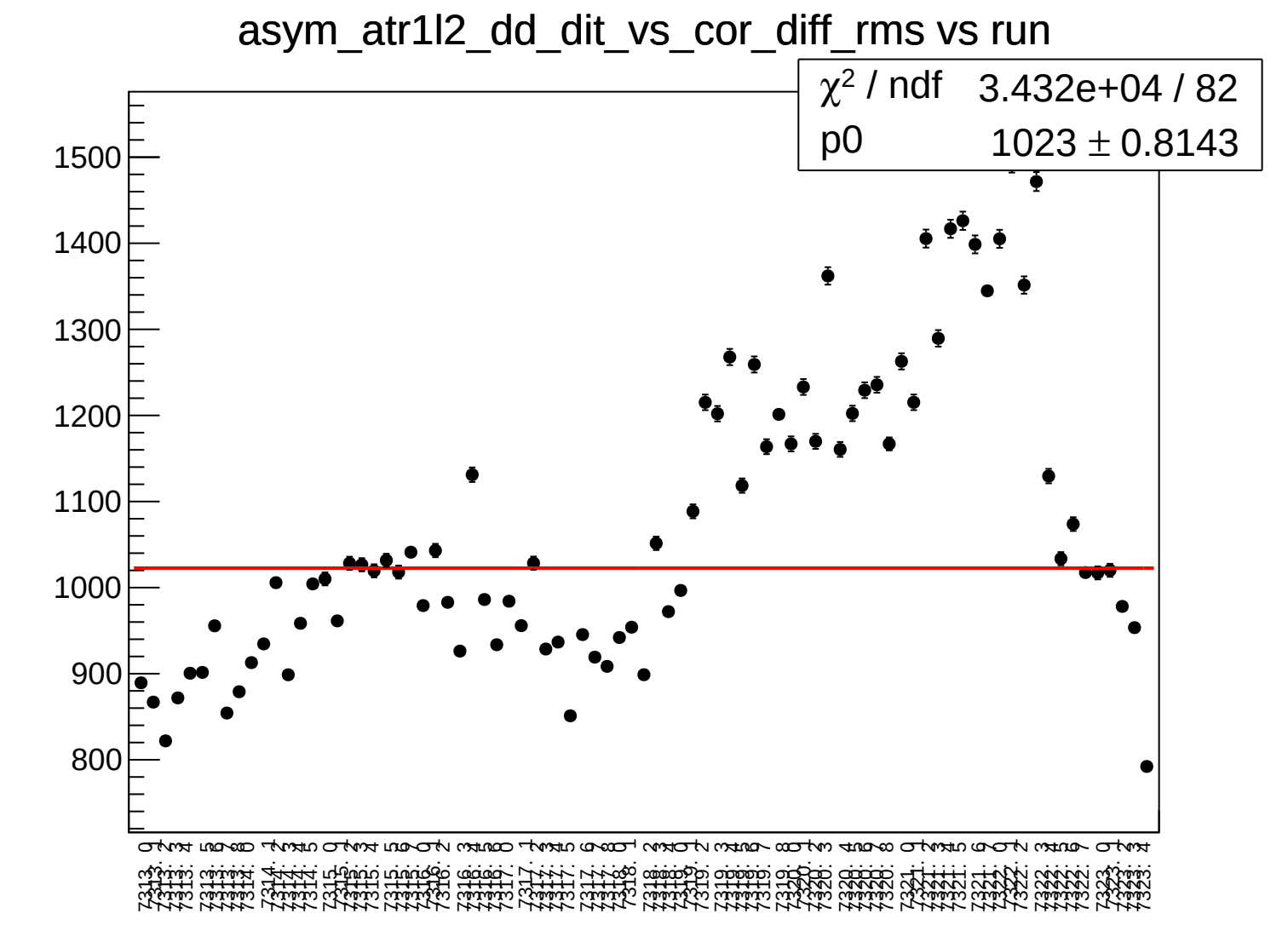

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.35 / 82
p0 −2.509e−14 ± 2.091e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean −95.71
Std Dev 0
2
1
0
−1
−2

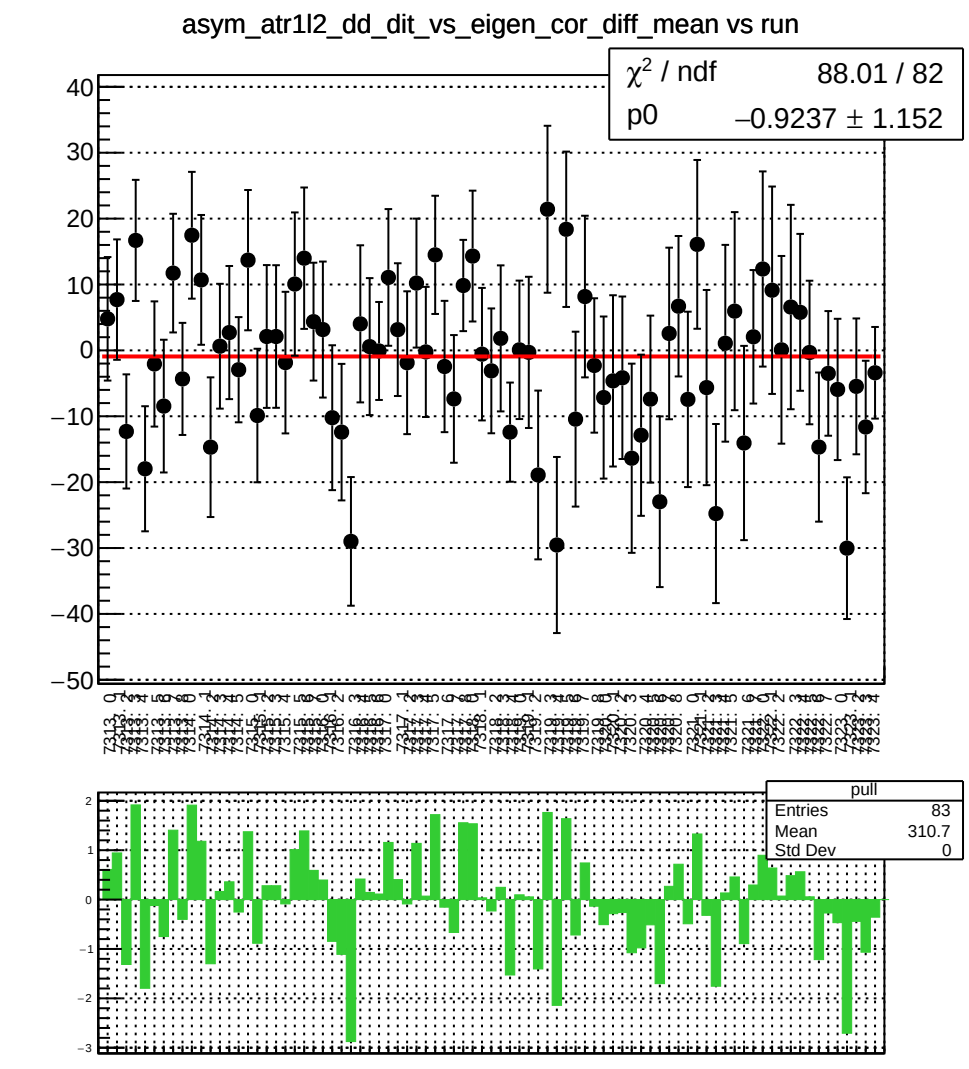

pull1D
Entries 83
Mean 0.01338
Std Dev 0.9653
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

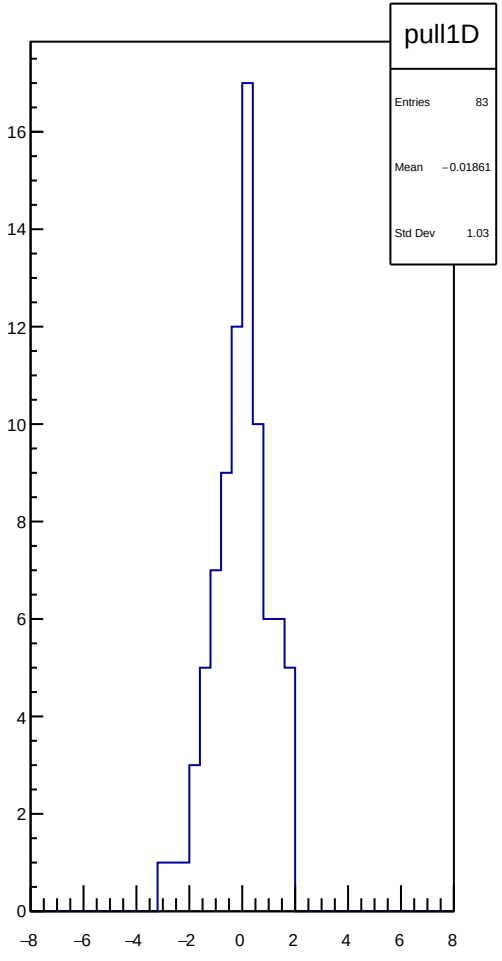

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.221e+06 / 82
p0 9.242e−11 ± 1.479e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

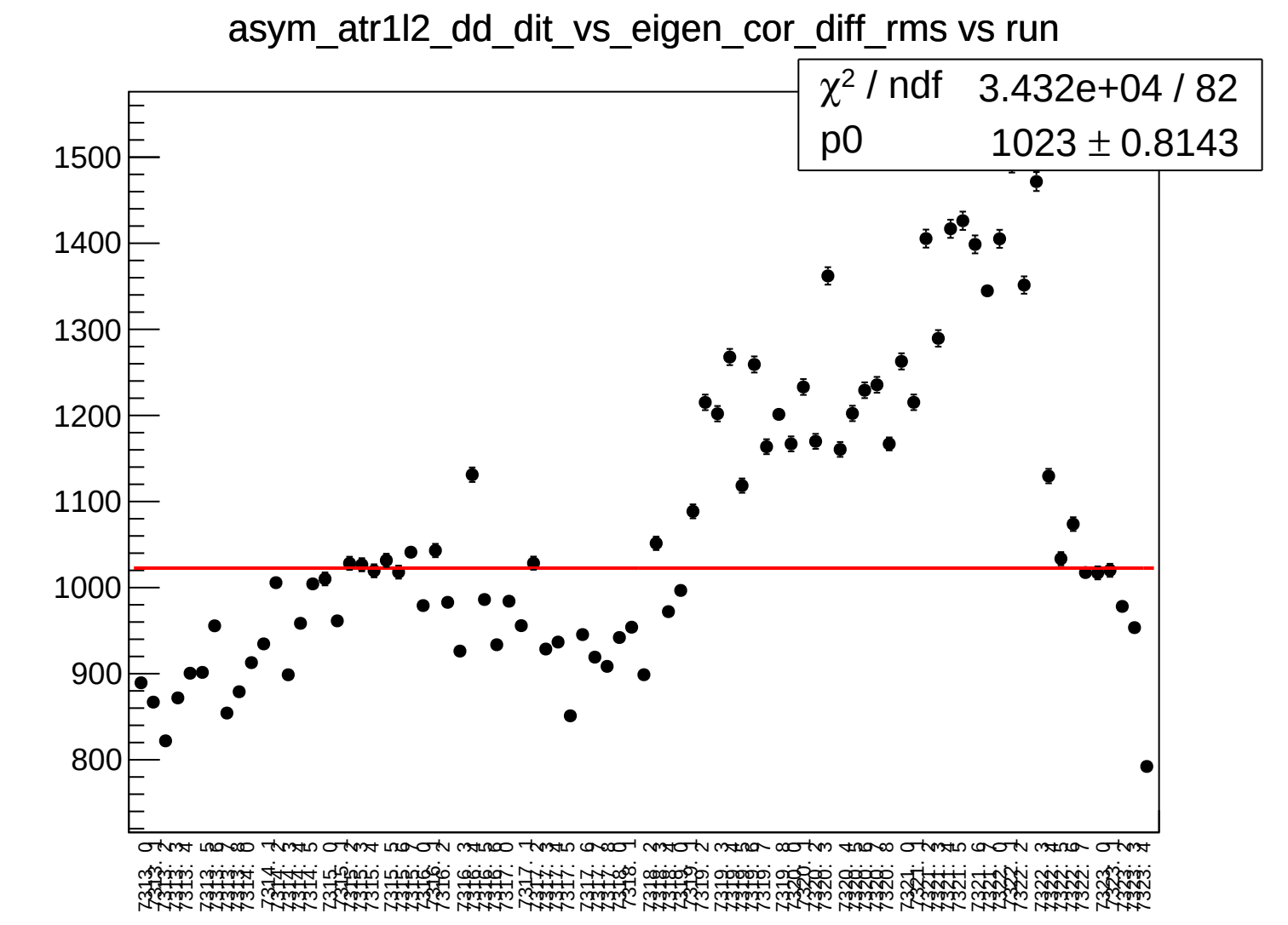

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.01 / 82
p0 −0.9237 ± 1.152
pull
Entries 83
Mean 310.7
Std Dev 0

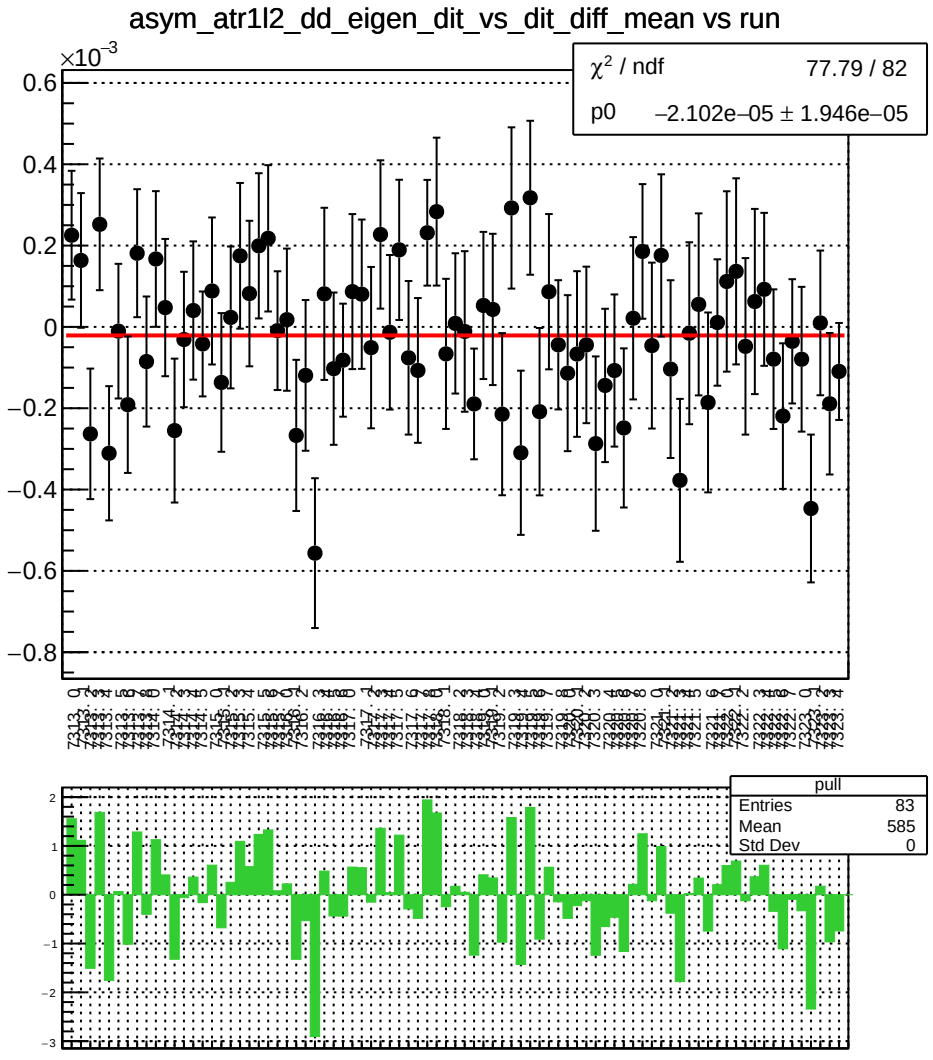

pull1D
Entries 83
Mean −0.01861
Std Dev 1.03

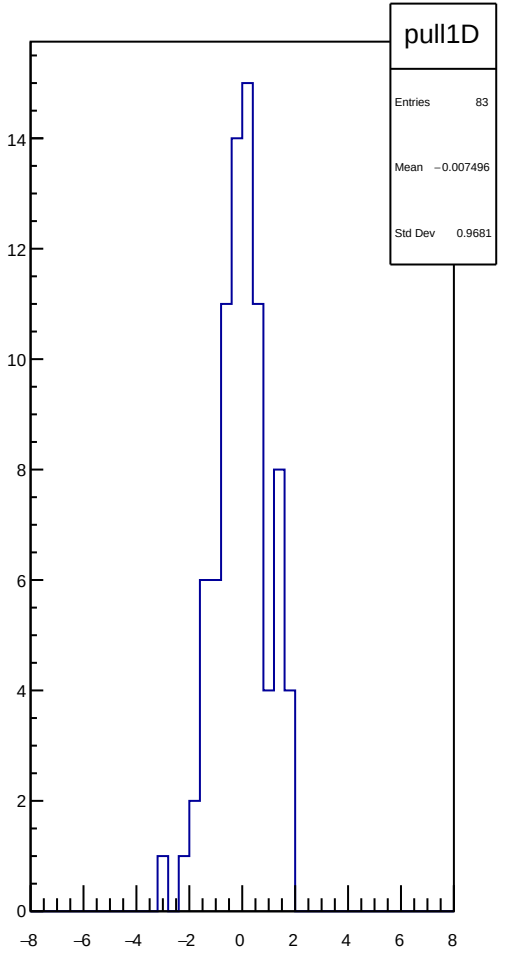

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.432e+04 / 82
p0 1023 ± 0.8143
1500
1400
1300
1200
1100
1000
900
800

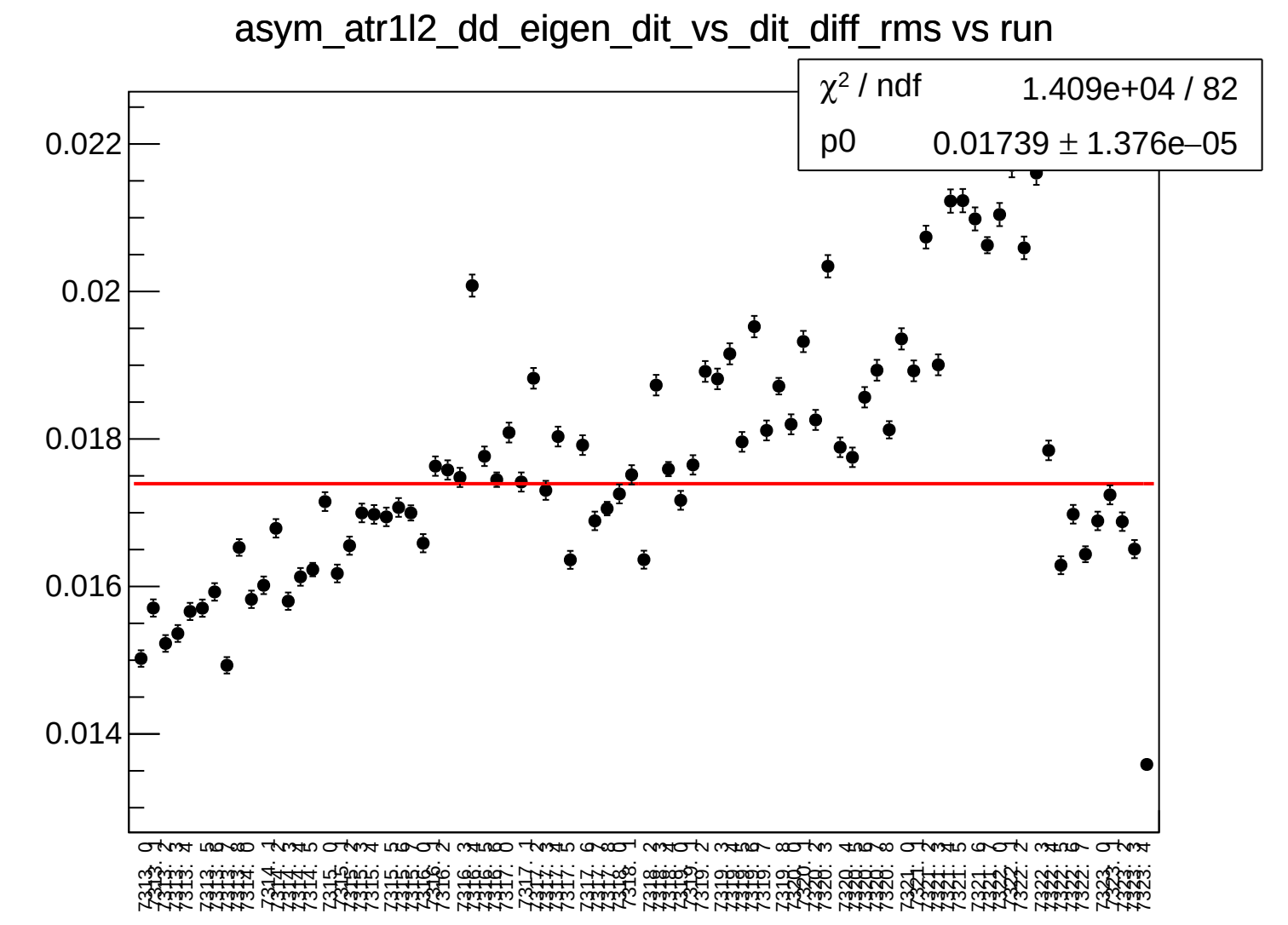

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.01 / 82
p0 −0.9237 ± 1.152
pull
Entries 83
Mean 310.7
Std Dev 0

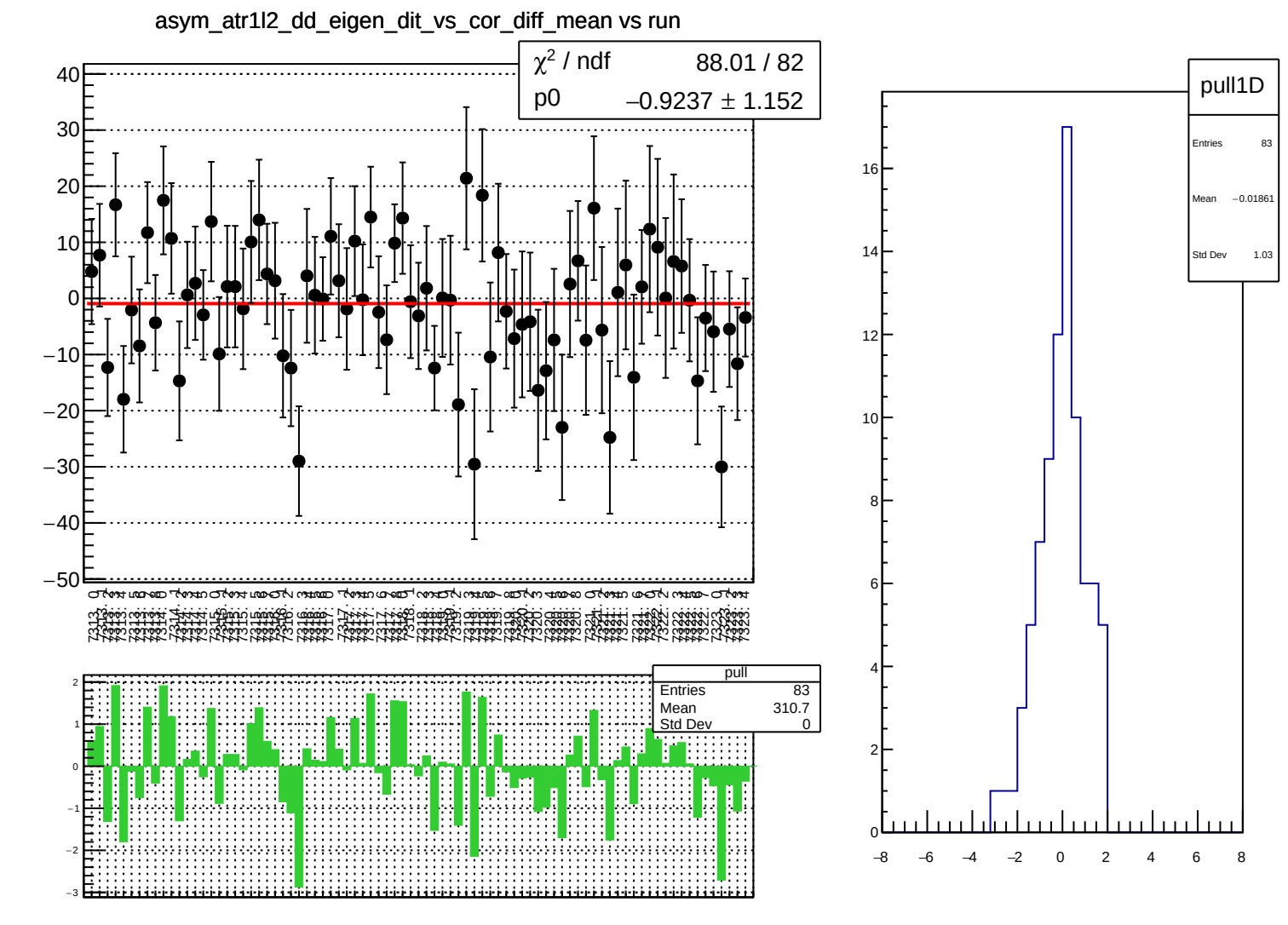

pull1D
Entries 83
Mean −0.01861
Std Dev 1.03

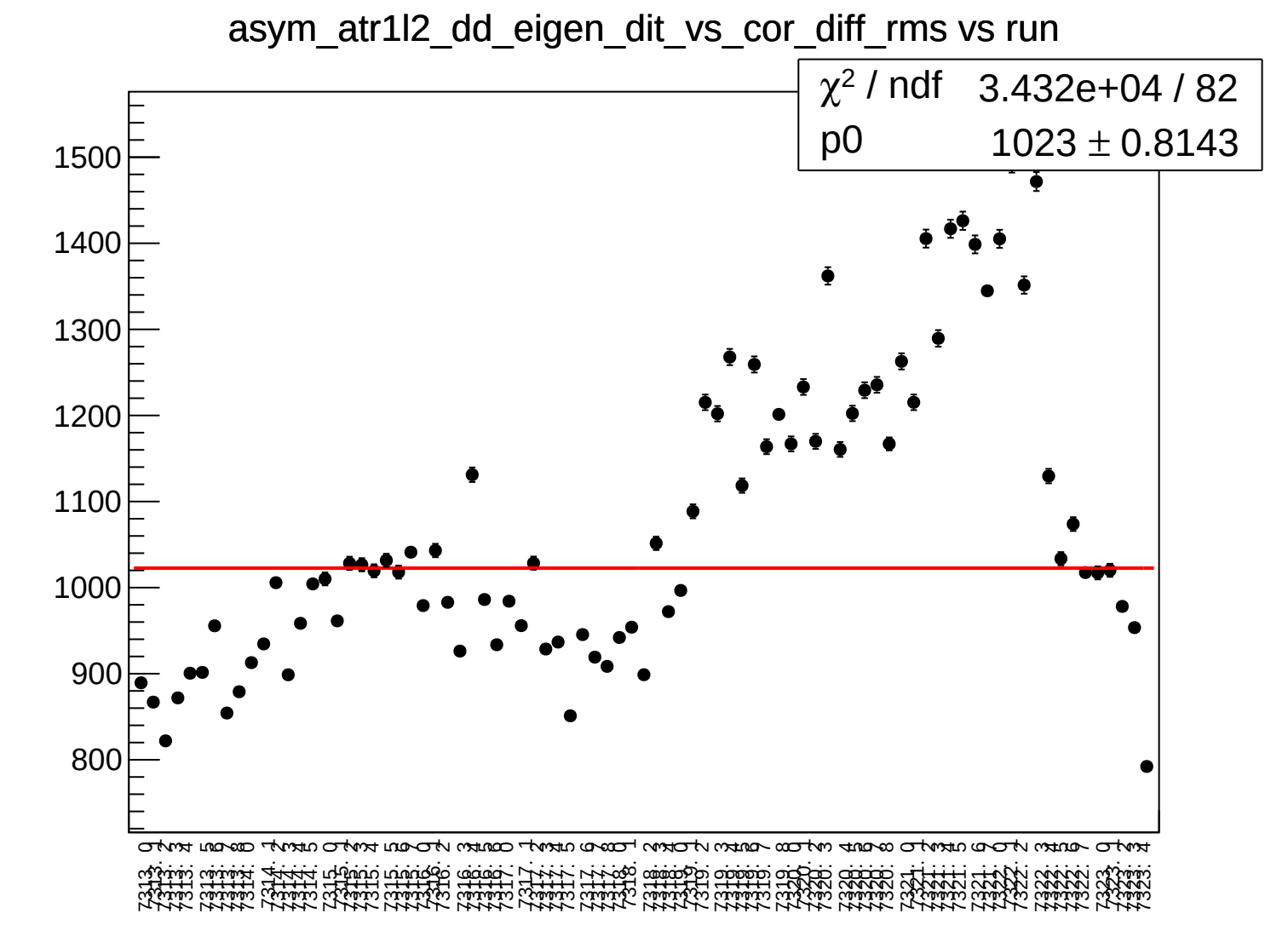

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.432e+04 / 82
p0 1023 ± 0.8143
1500
1400
1300
1200
1100
1000
900
800

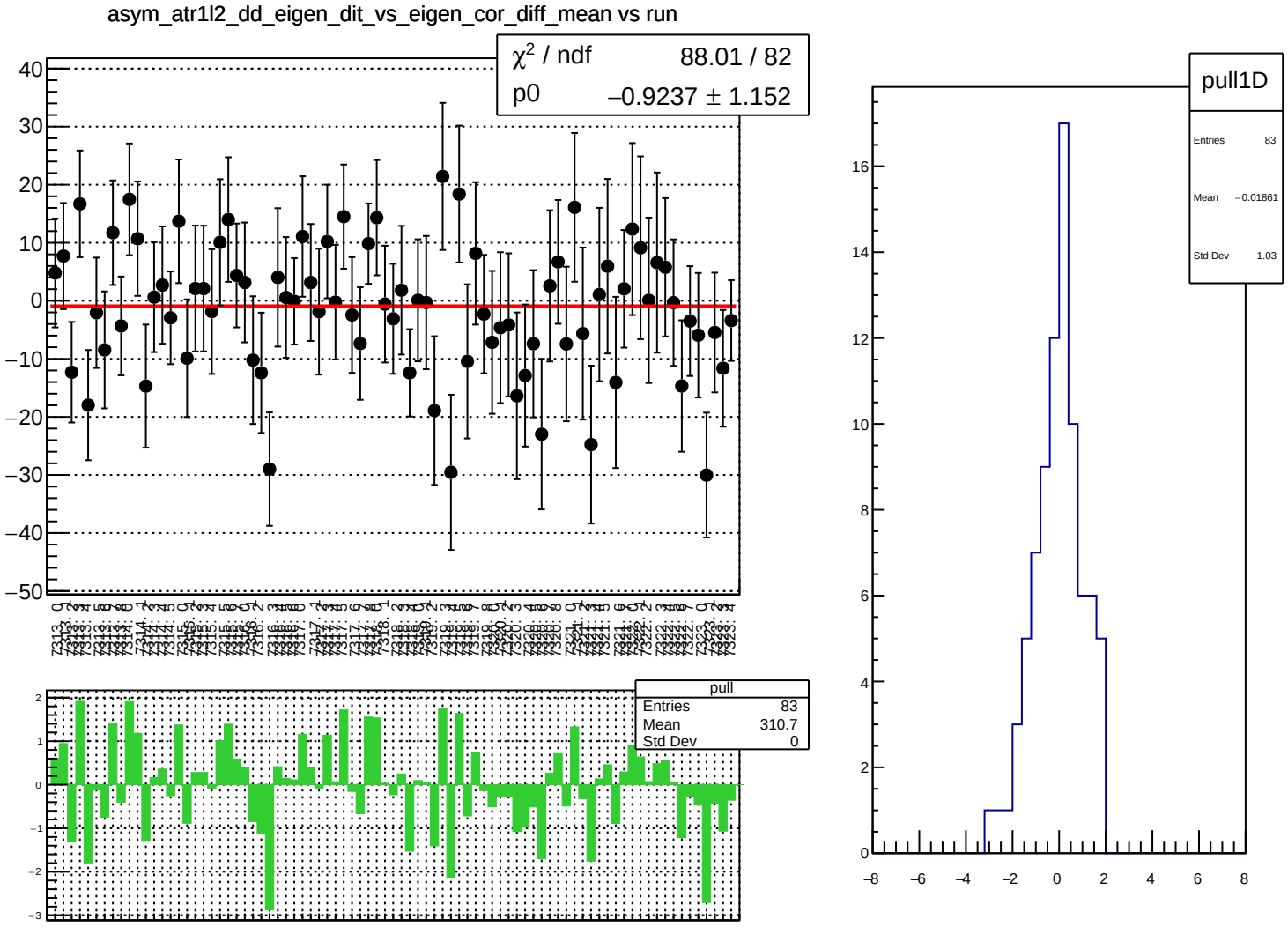

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.79 / 82
p0 −2.102e−05 ± 1.946e−05
pull
Entries 83
Mean 585
Std Dev 0

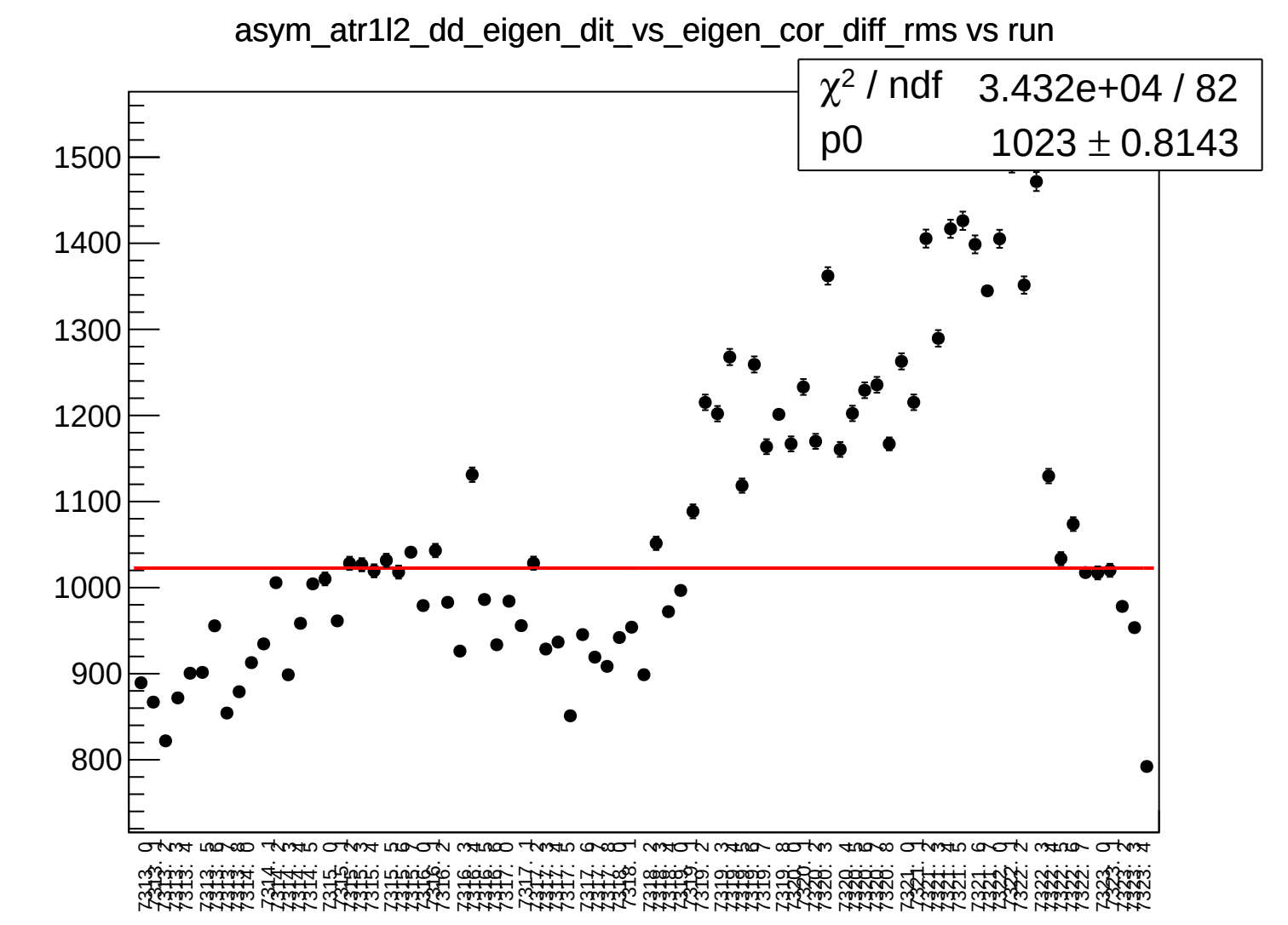

pull1D
Entries 83
Mean −0.007496
Std Dev 0.9681

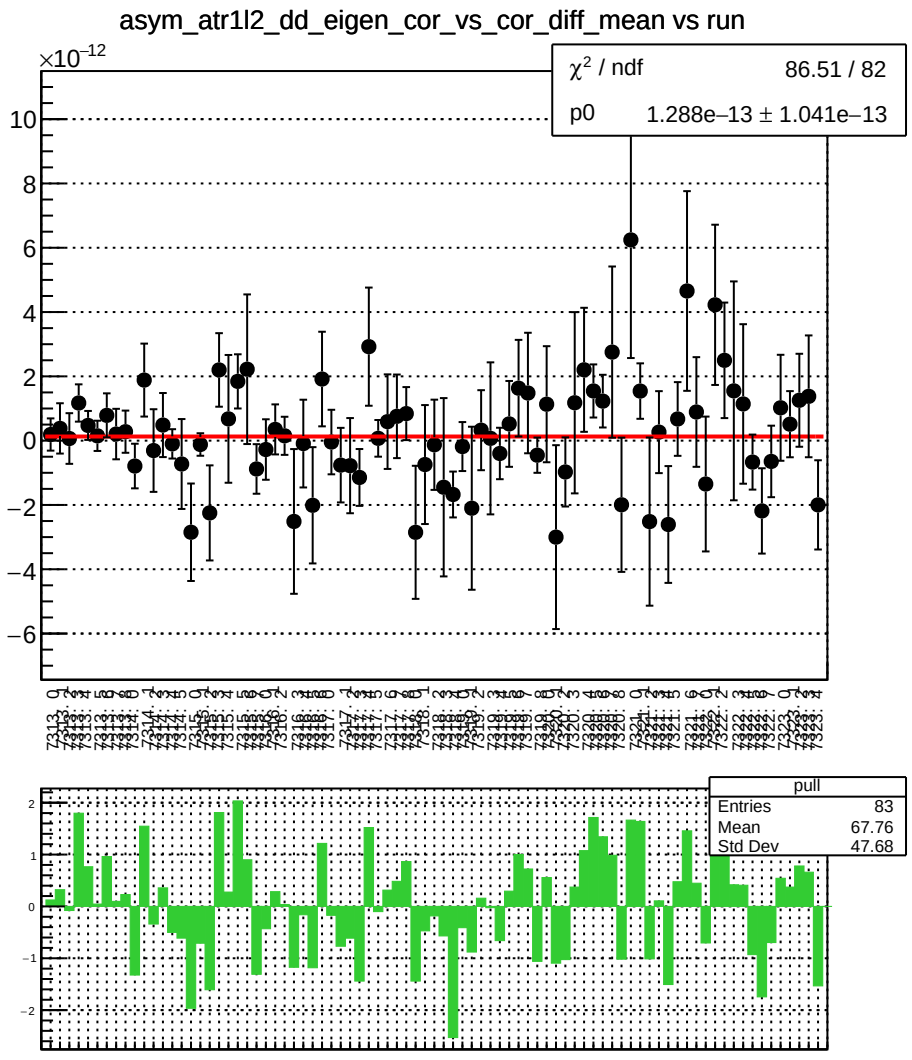

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.409e+04 / 82
p0 0.01739 ± 1.376e−05
0.022
0.02
0.018
0.016
0.014

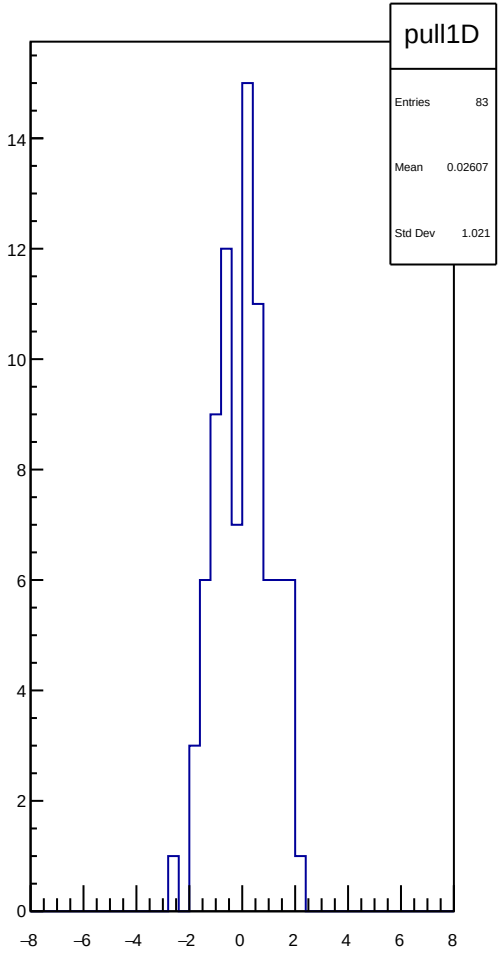

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.01 / 82
p0 −0.9237 ± 1.152
pull
Entries 83
Mean 310.7
Std Dev 0
pull1D
Entries 83
Mean −0.01861
Std Dev 1.03

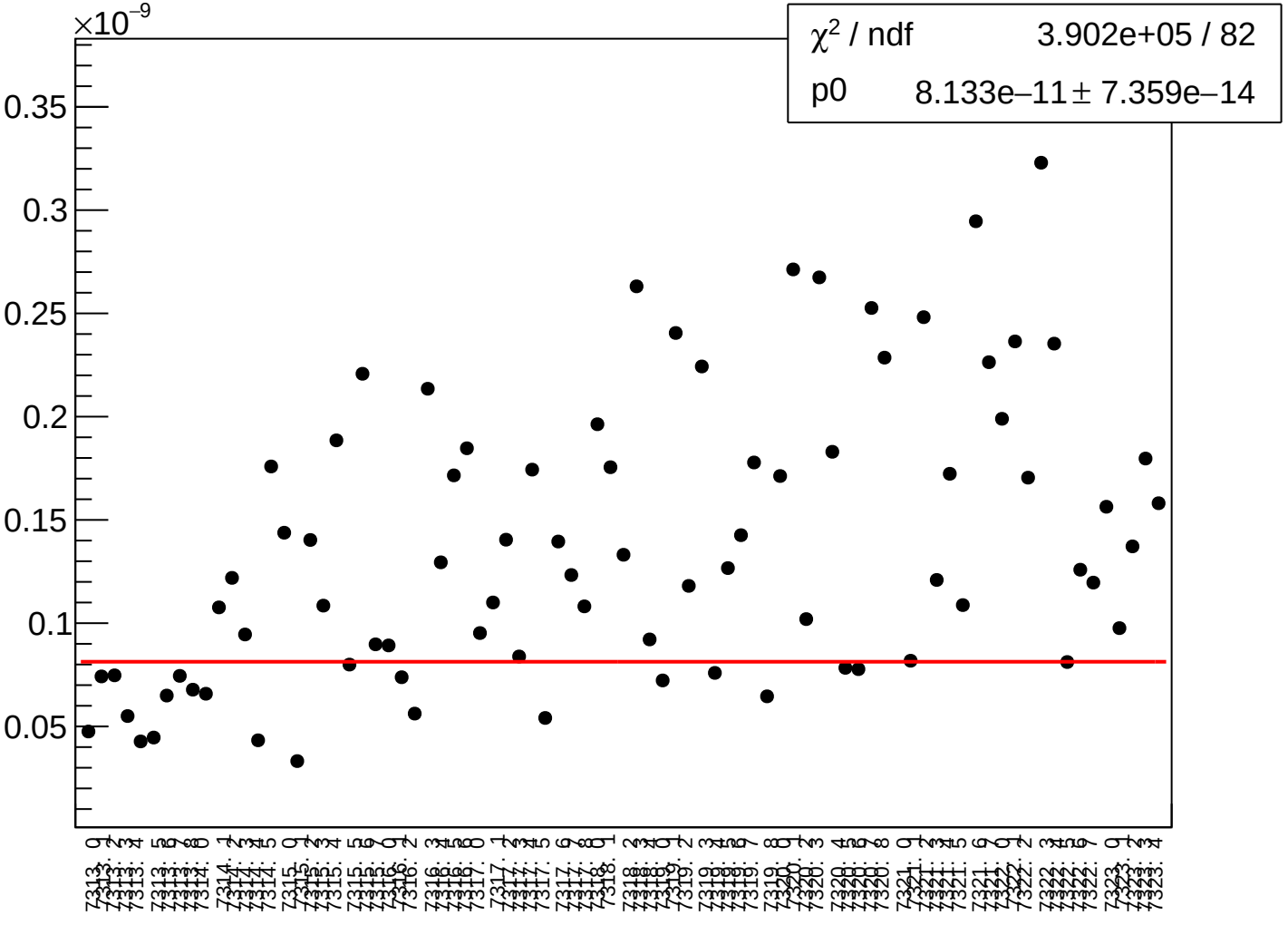

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.432e+04 / 82
p0 1023 ± 0.8143
1500
1400
1300
1200
1100
1000
900
800

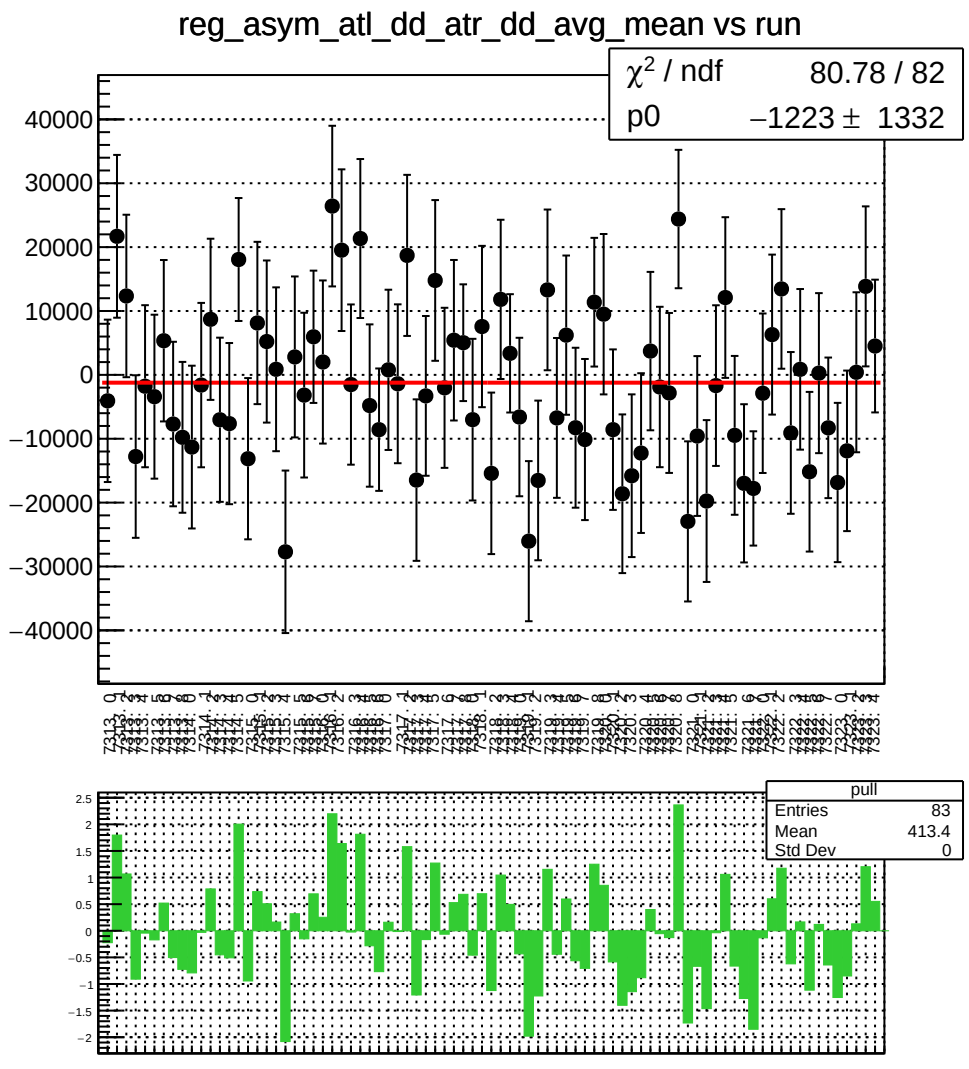

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.01 / 82
p0 −0.9237 ± 1.152
pull
Entries 83
Mean 310.7
Std Dev 0
pull1D
Entries 83
Mean −0.01861
Std Dev 1.03

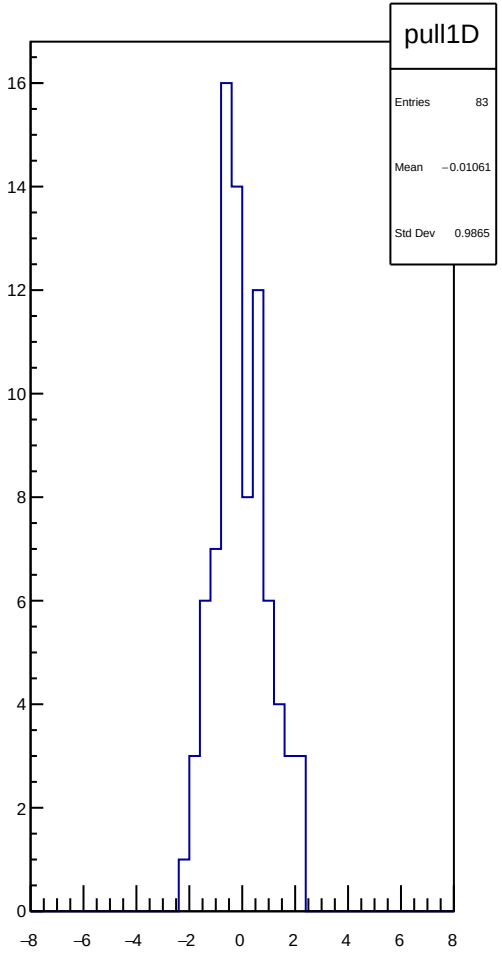

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.432e+04 / 82
p0 1023 ± 0.8143
1500
1400
1300
1200
1100
1000
900
800

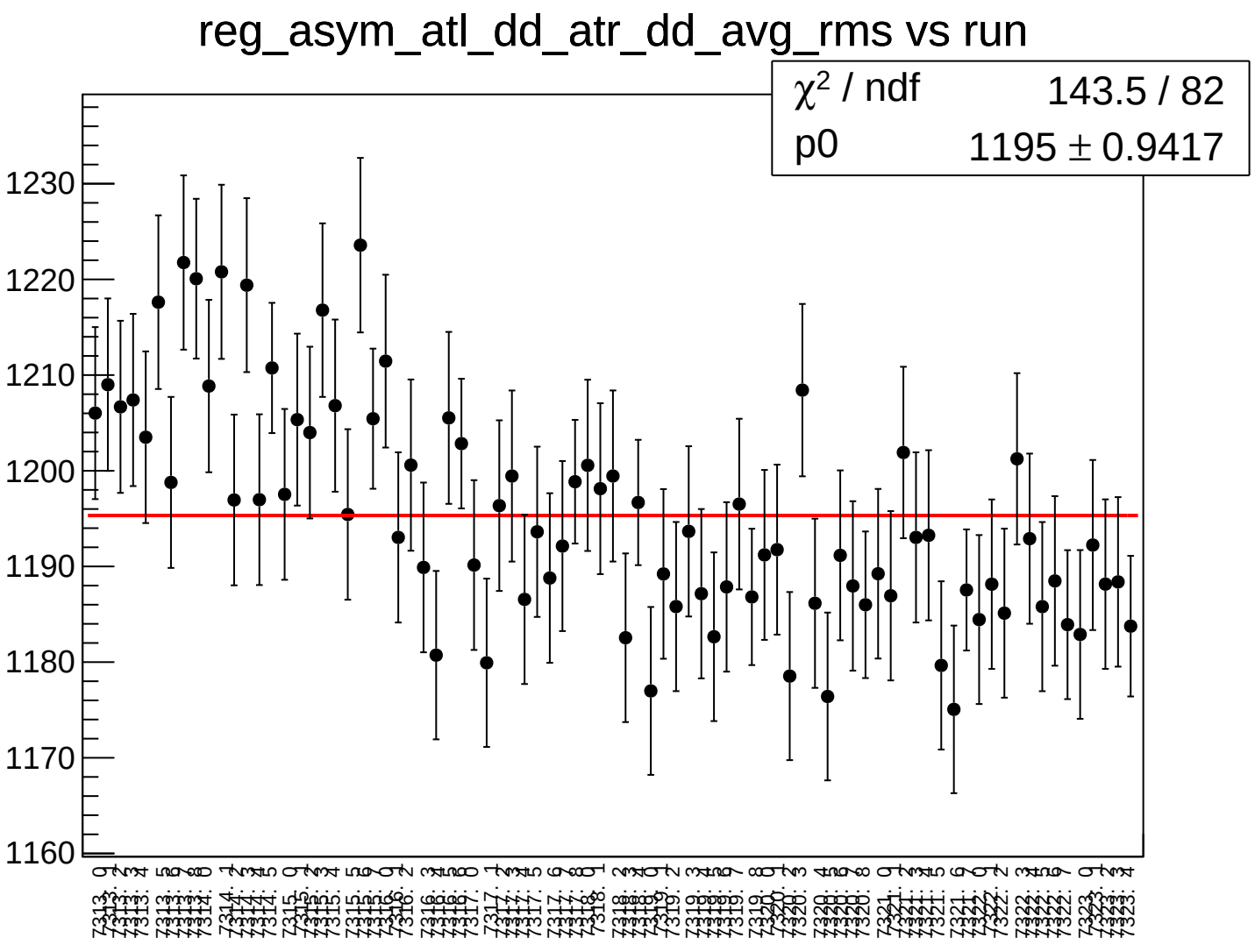

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.51 / 82
p0 1.288e−13 ± 1.041e−13
pull
Entries 83
Mean 67.76
Std Dev 47.68

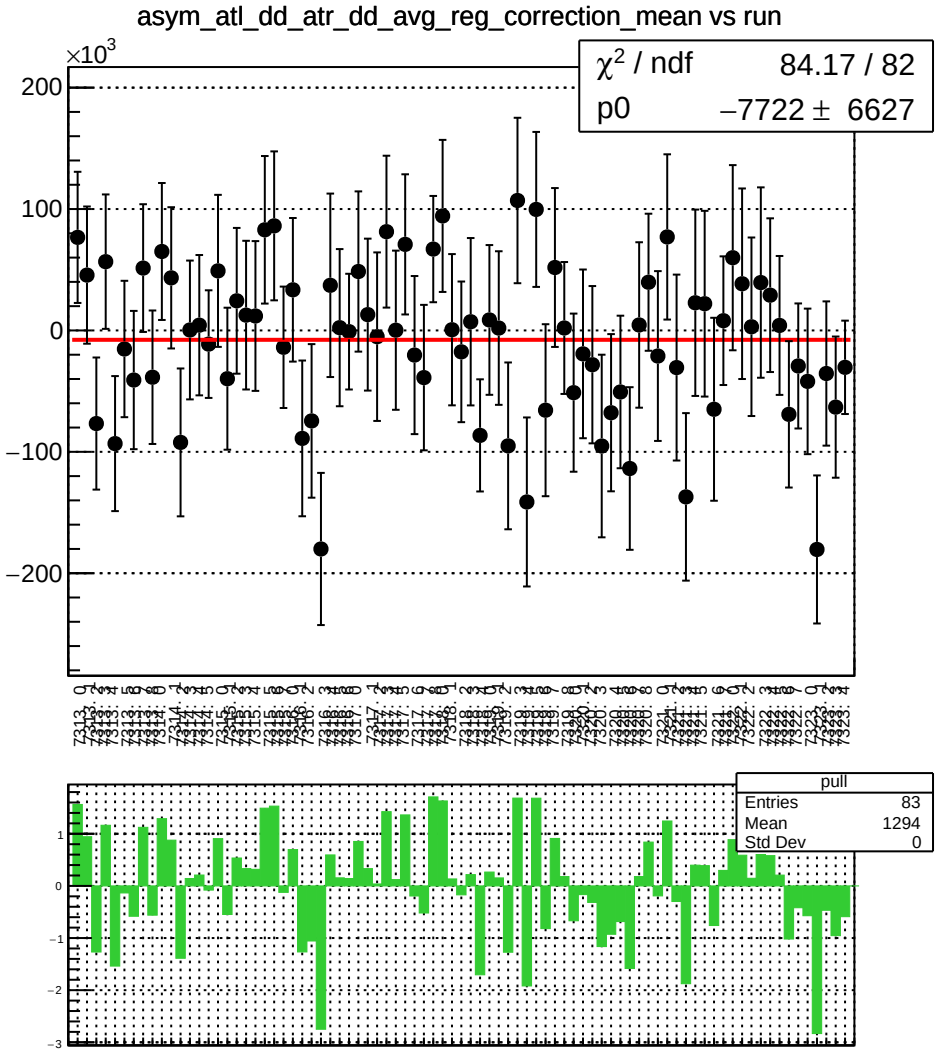

pull1D
Entries 83
Mean 0.02607
Std Dev 1.021

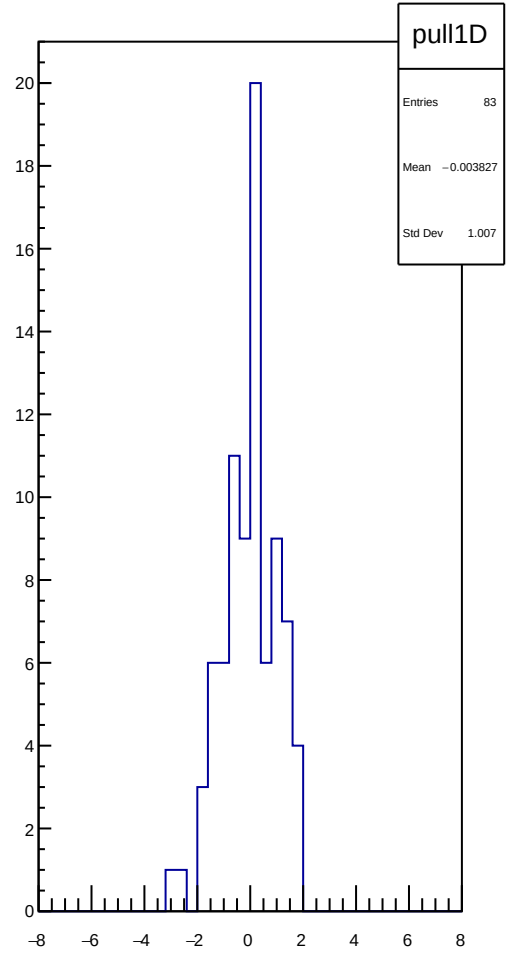

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.902e+05 / 82
p0 8.133e−11 ± 7.359e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

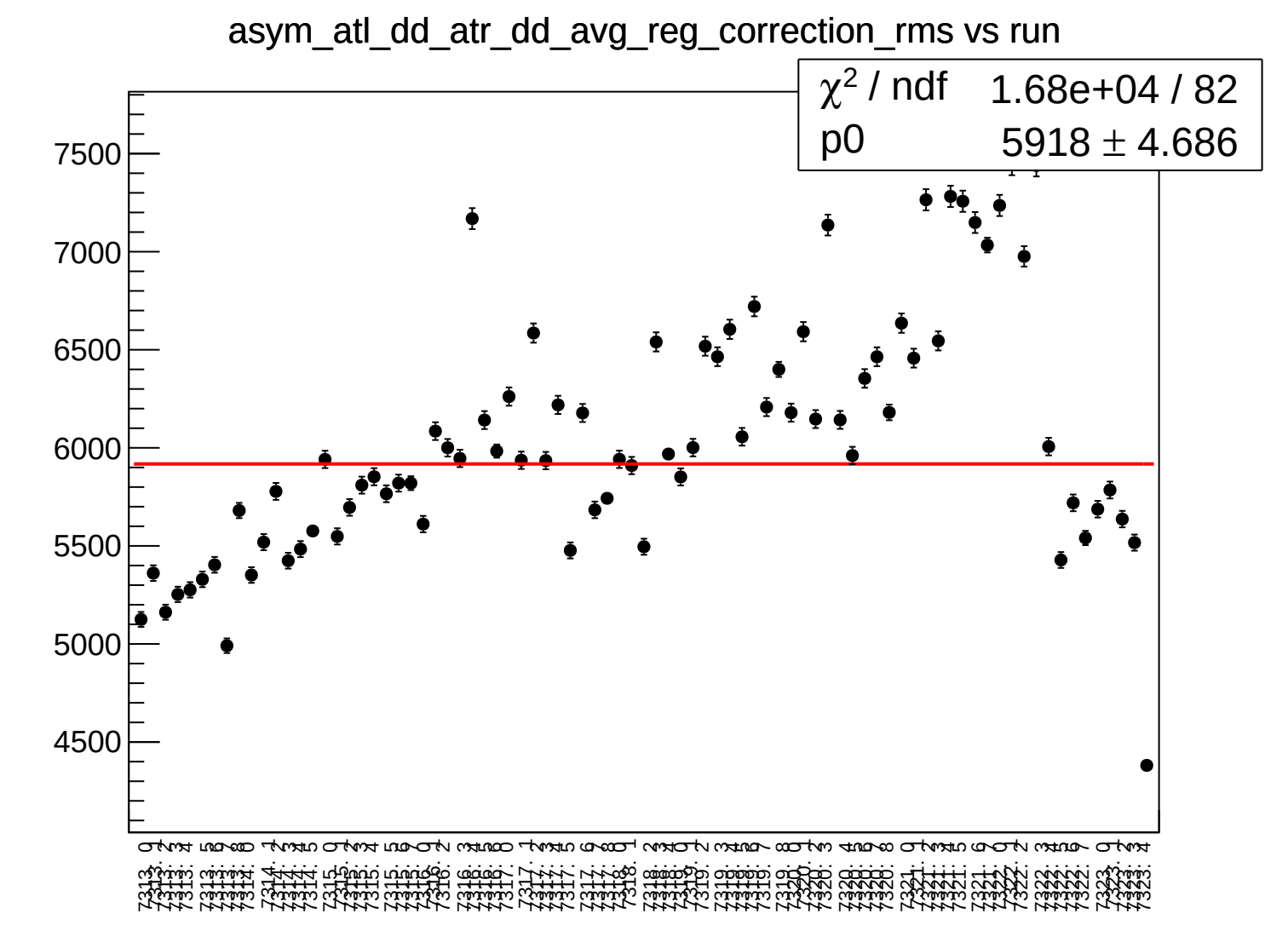

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 80.78 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.4
Std Dev 0

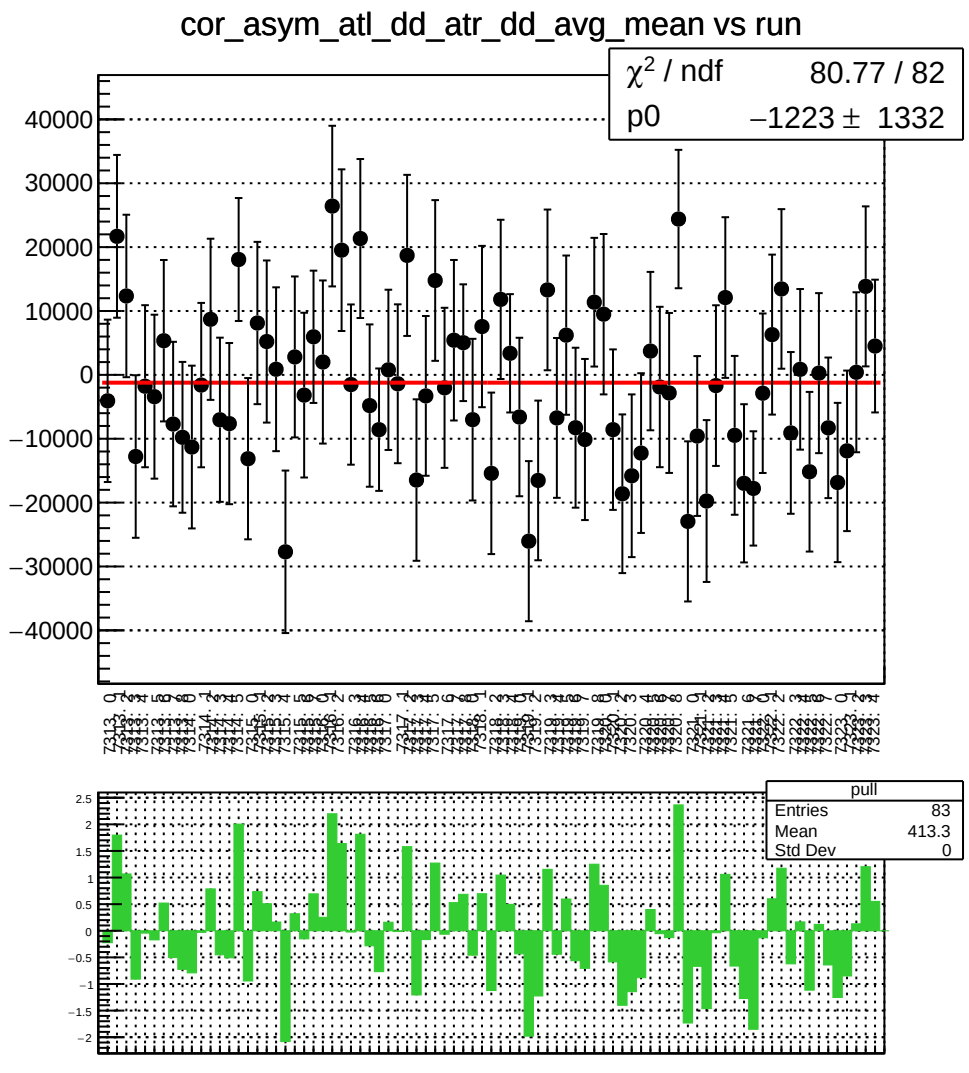

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9865

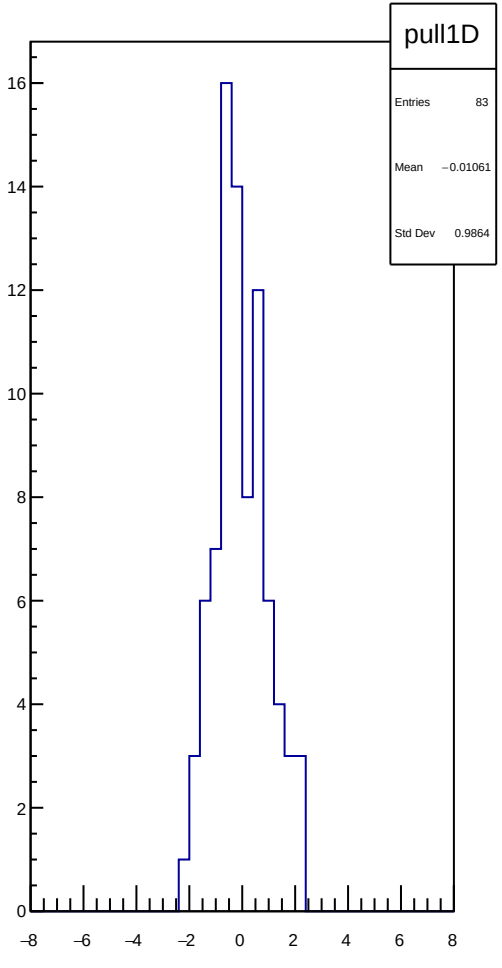

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

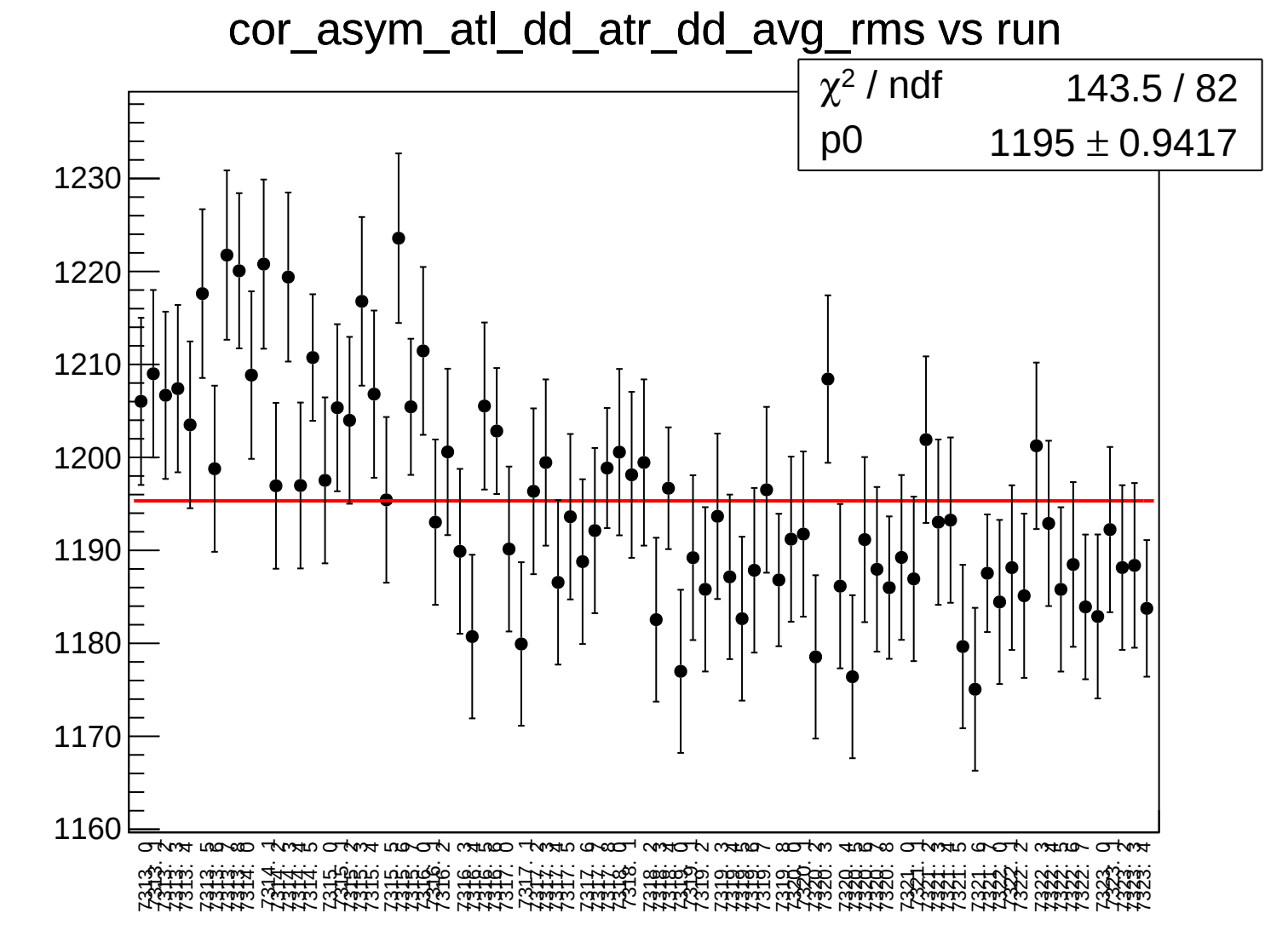

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1294
Std Dev 0

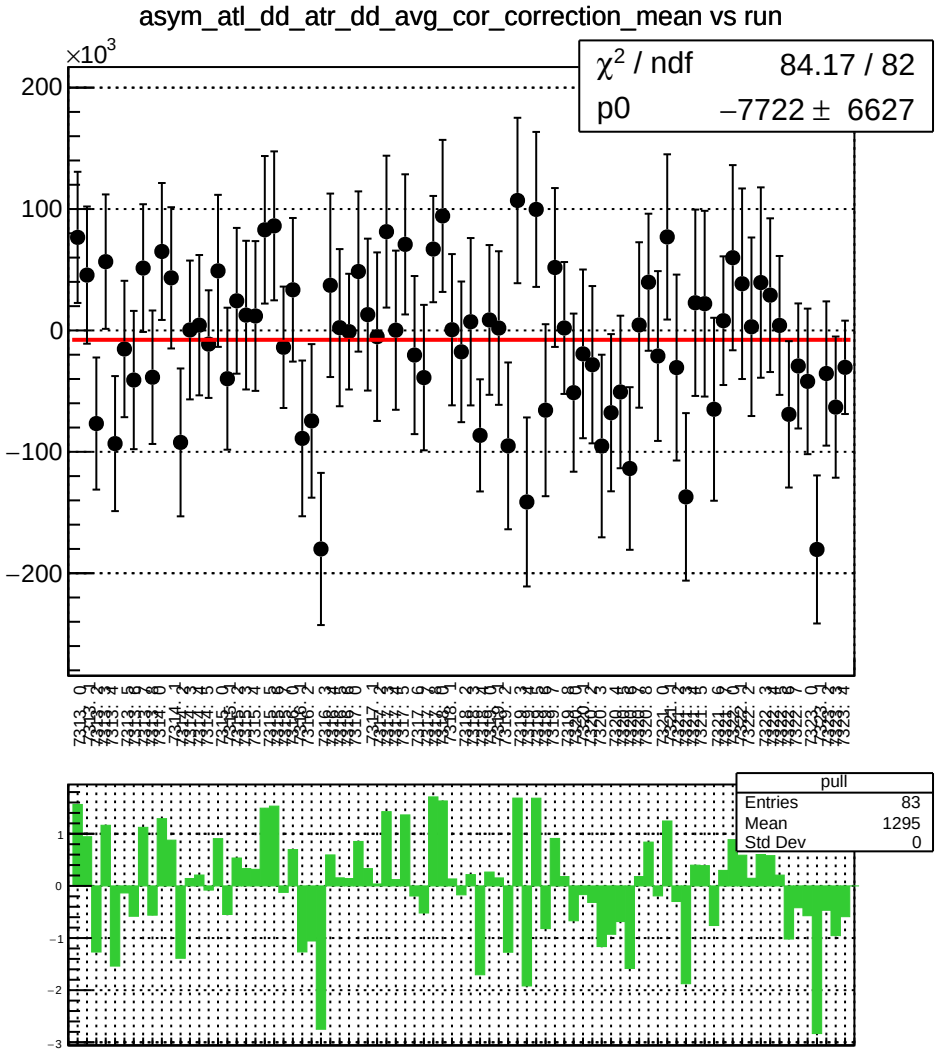

pull1D
Entries 83
Mean −0.003827
Std Dev 1.007

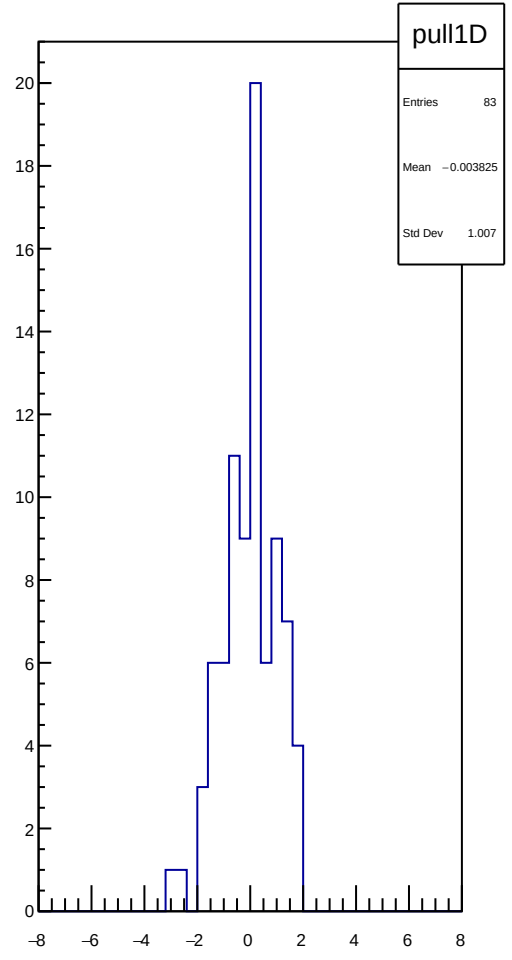

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

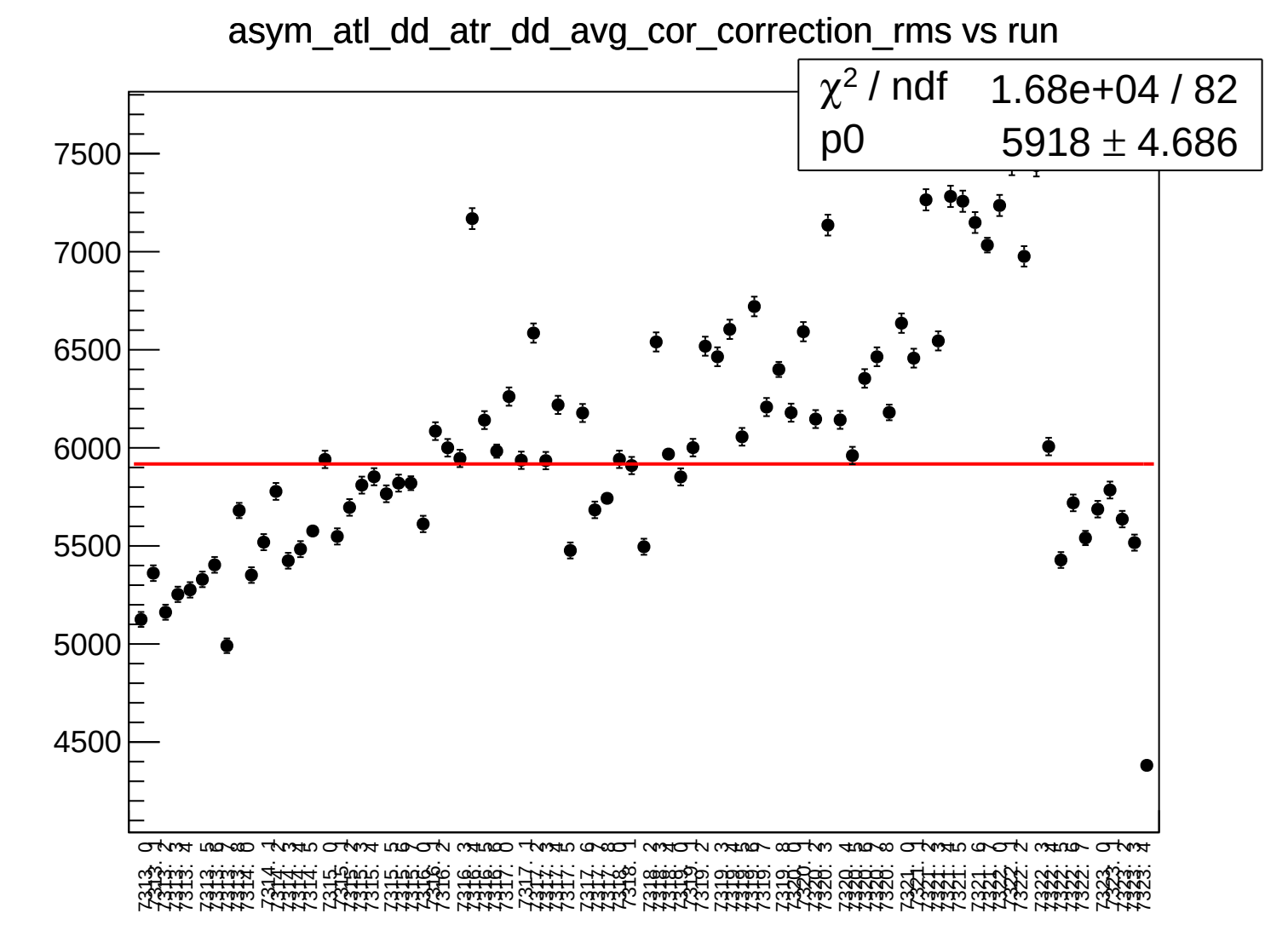

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 80.77 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.3
Std Dev 0

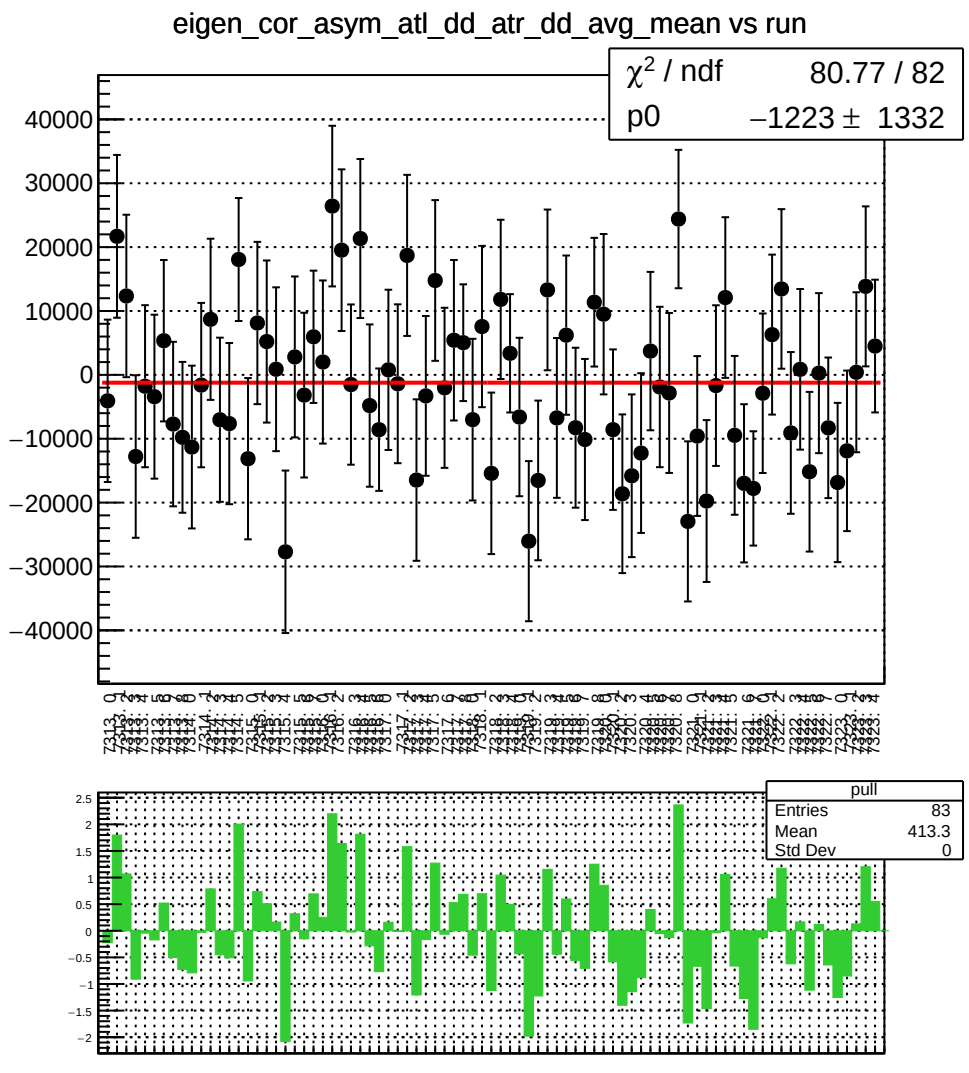

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9864

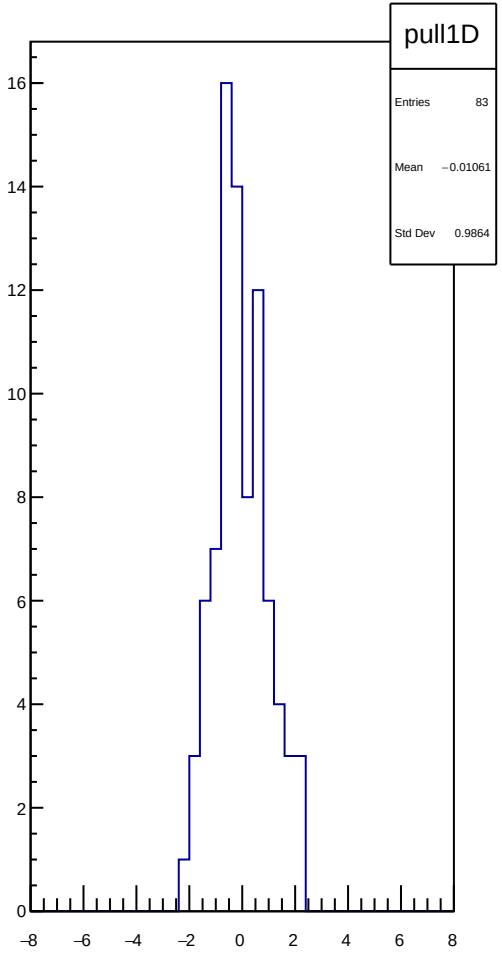

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

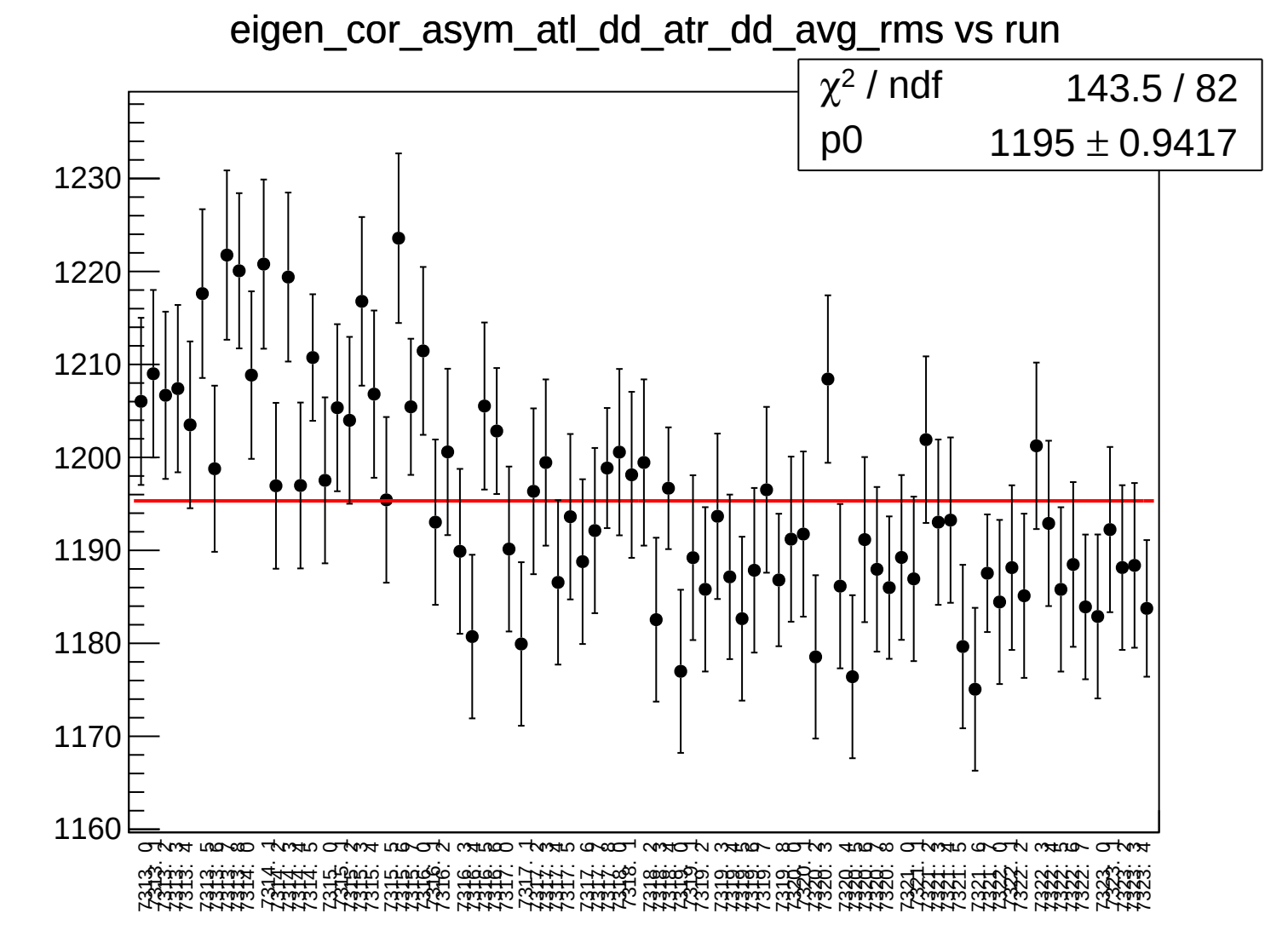

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1295
Std Dev 0

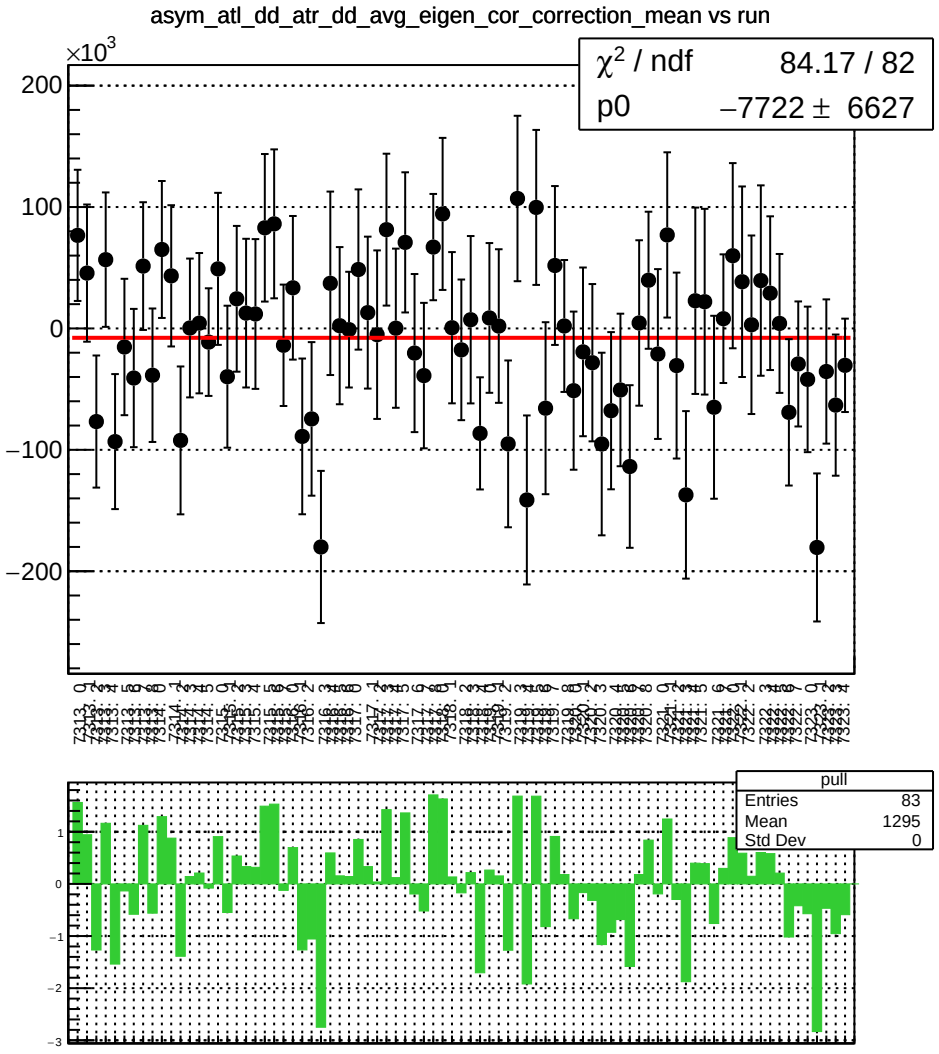

pull1D
Entries 83
Mean −0.003825
Std Dev 1.007

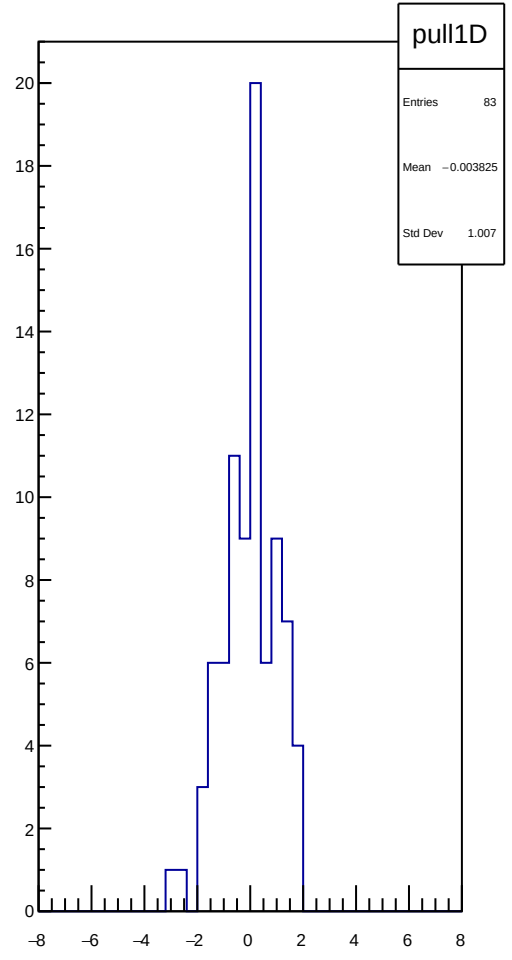

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

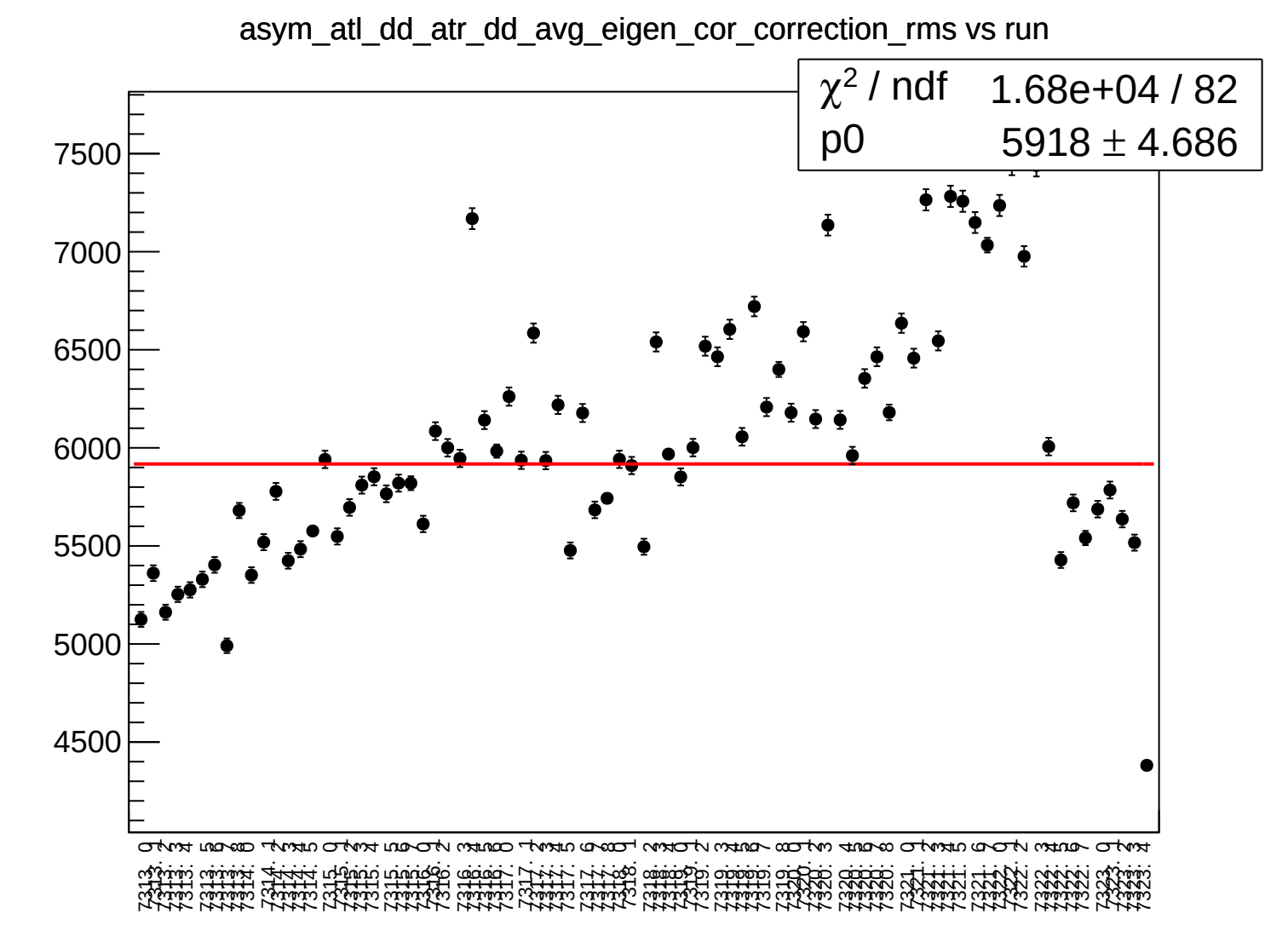

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 80.77 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.3
Std Dev 0

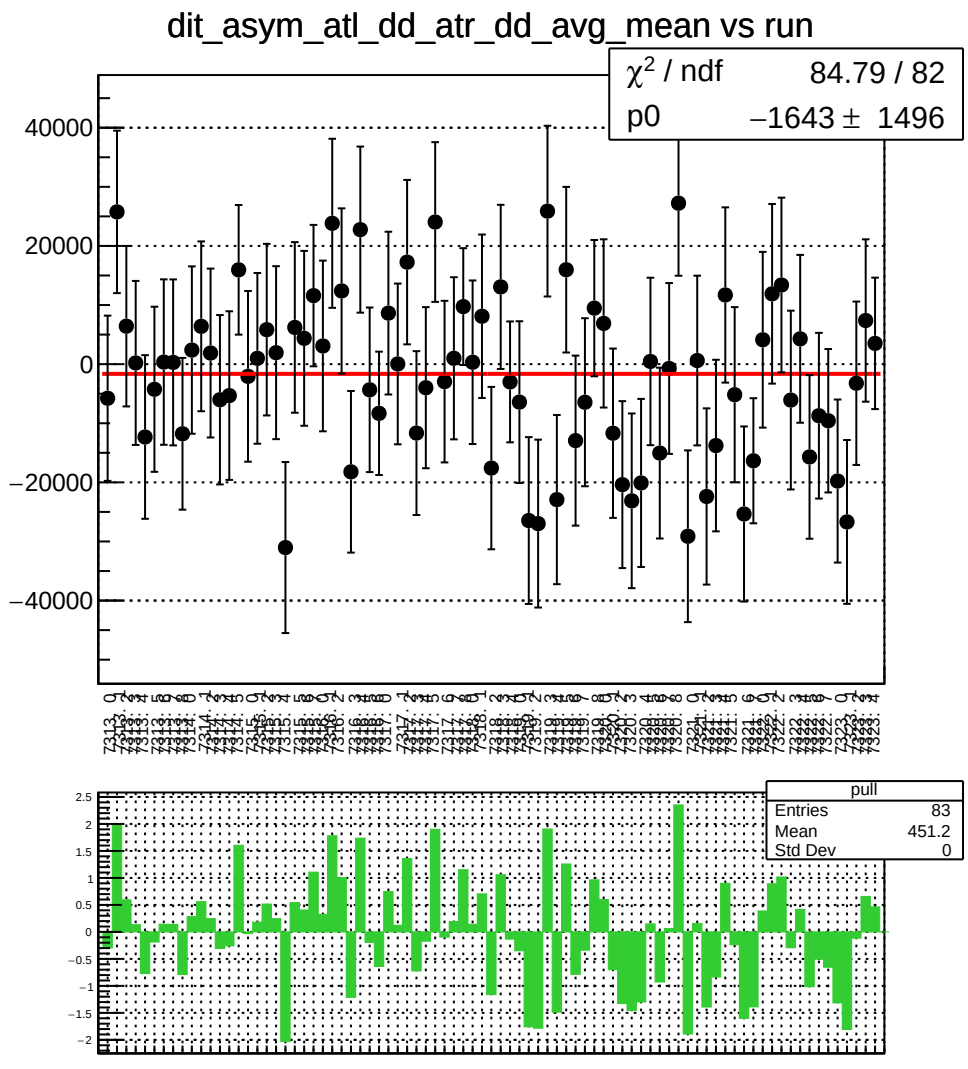

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9864

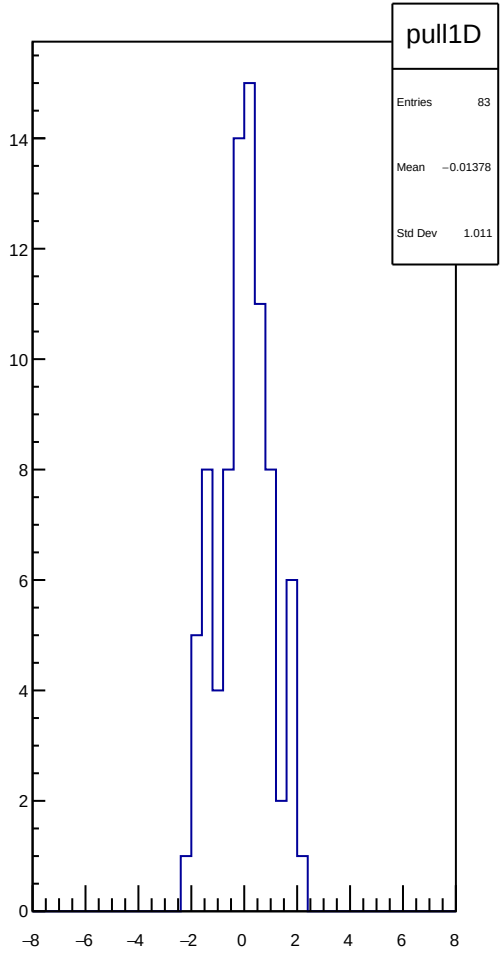

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

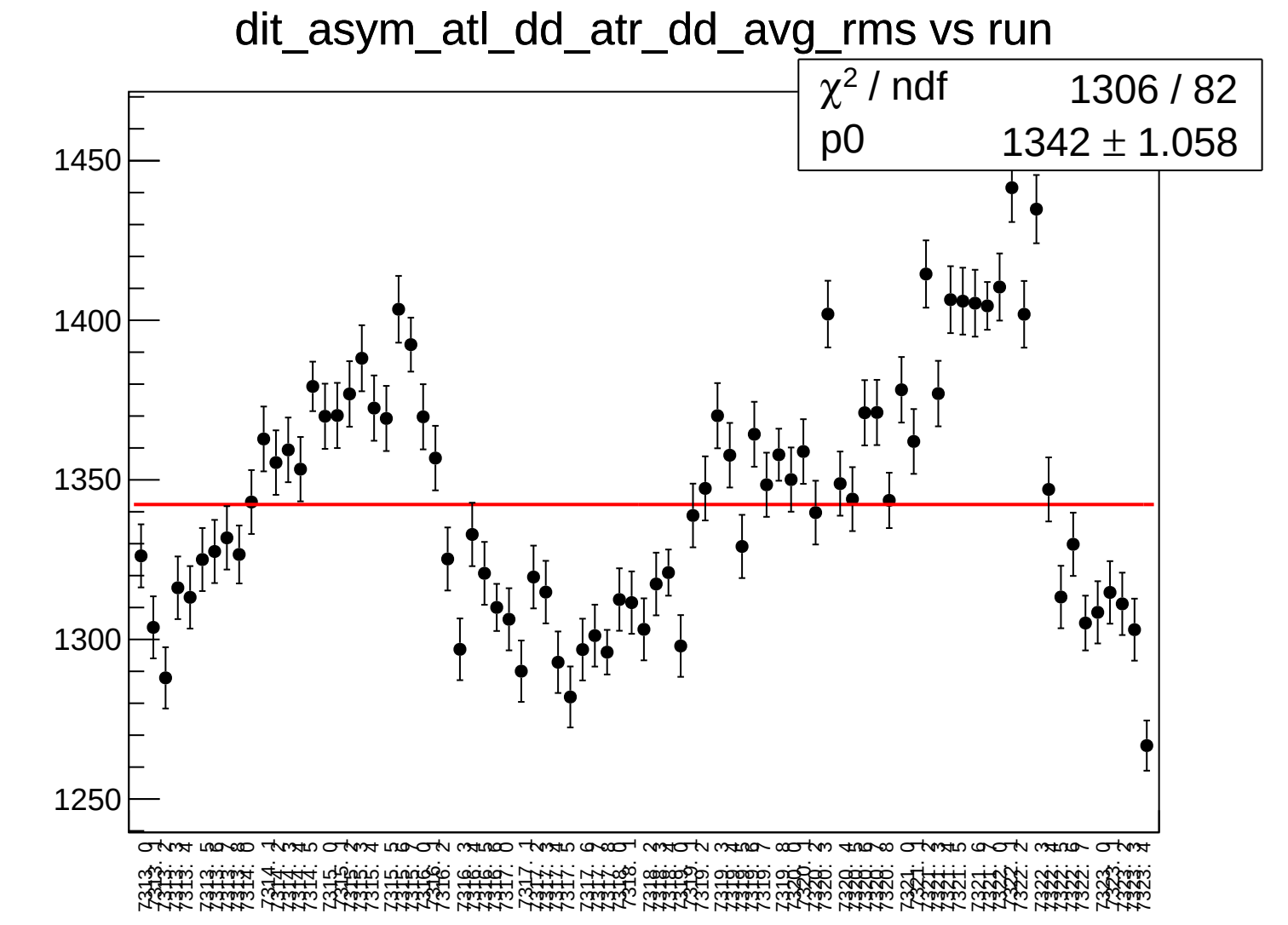

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1295
Std Dev 0

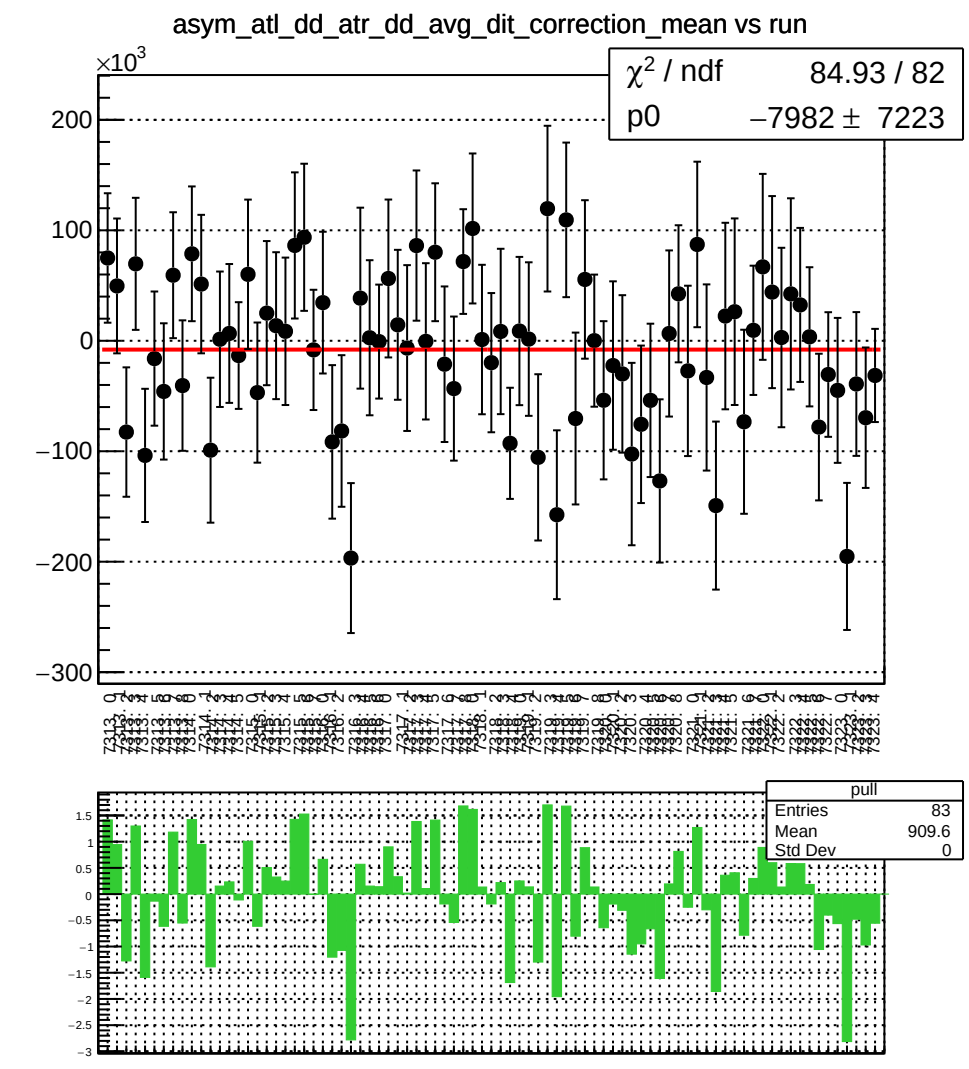

pull1D
Entries 83
Mean −0.003825
Std Dev 1.007

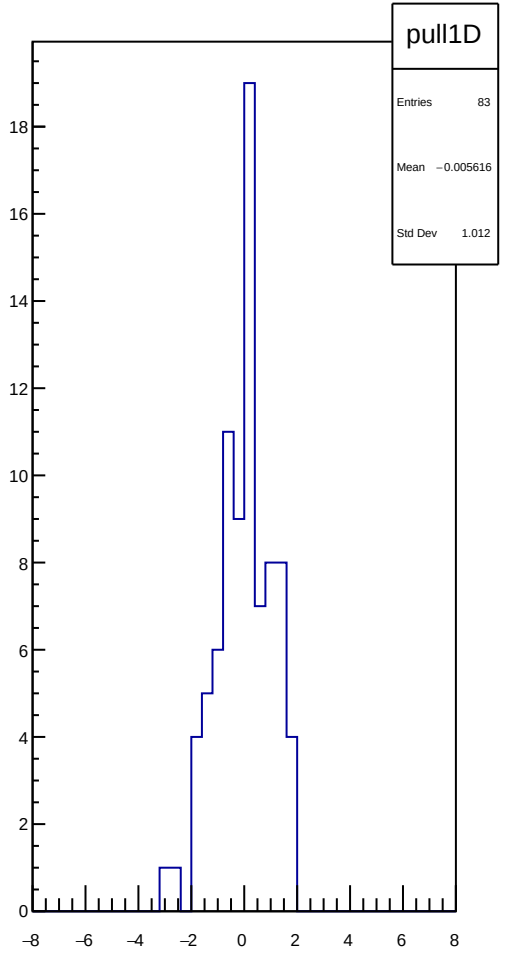

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

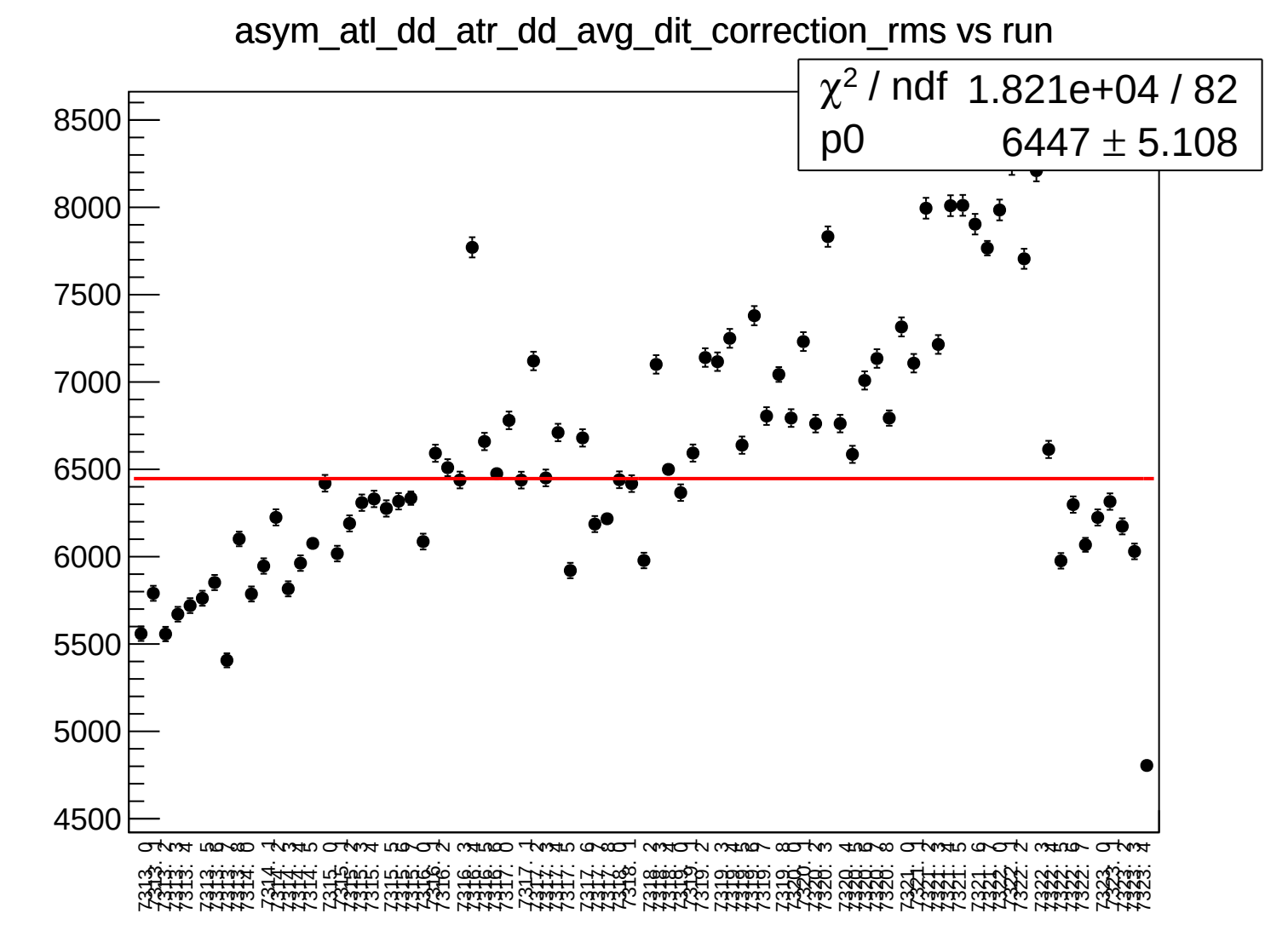

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.79 / 82
p0 −1643 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 451.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

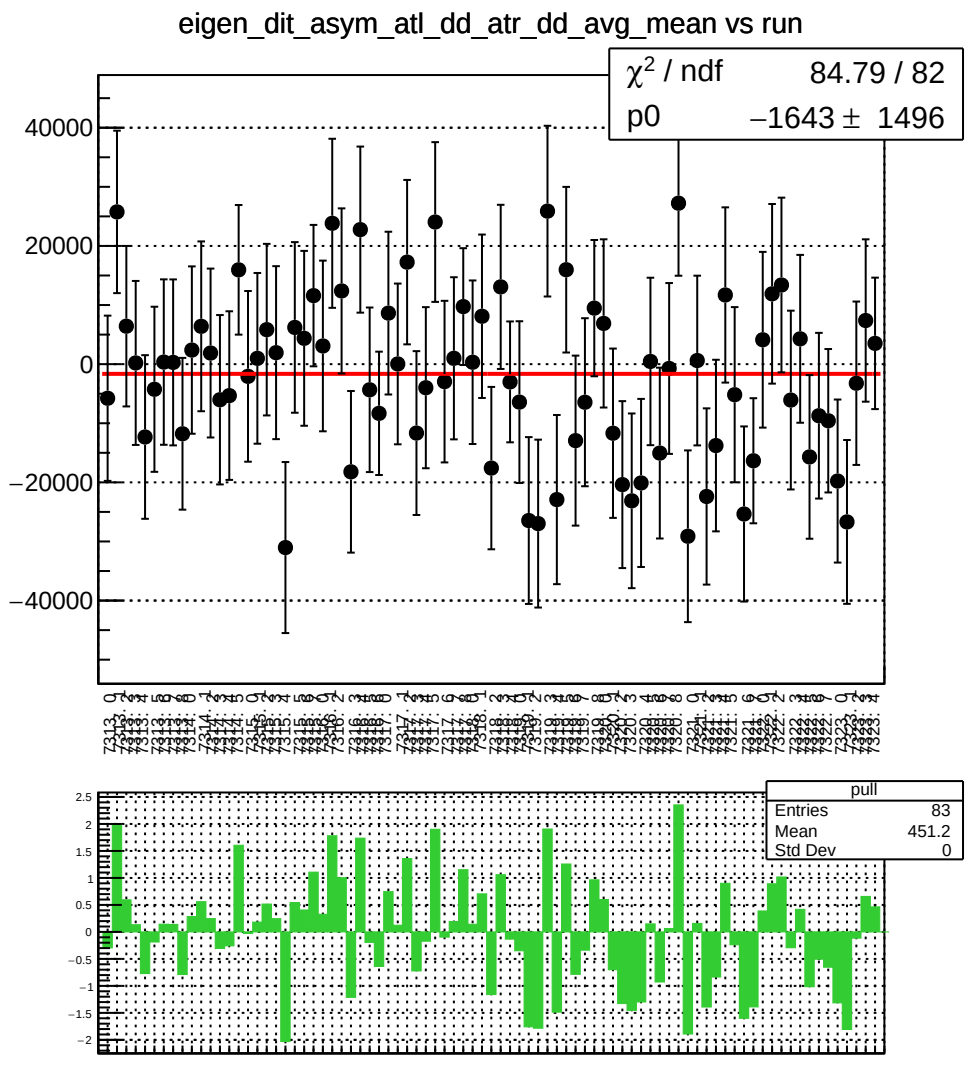

pull1D
Entries 83
Mean −0.01378
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

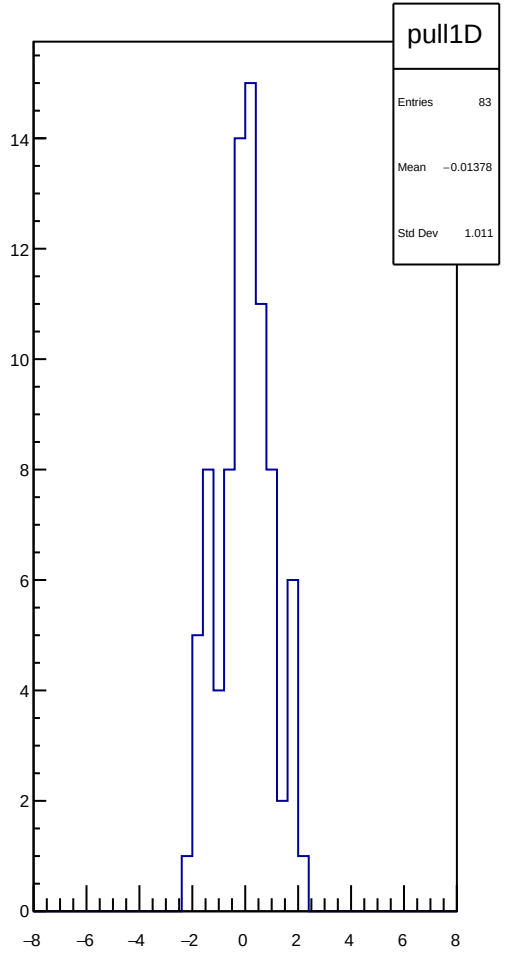

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1306 / 82
p0 1342 ± 1.058
1450
1400
1350
1300
1250

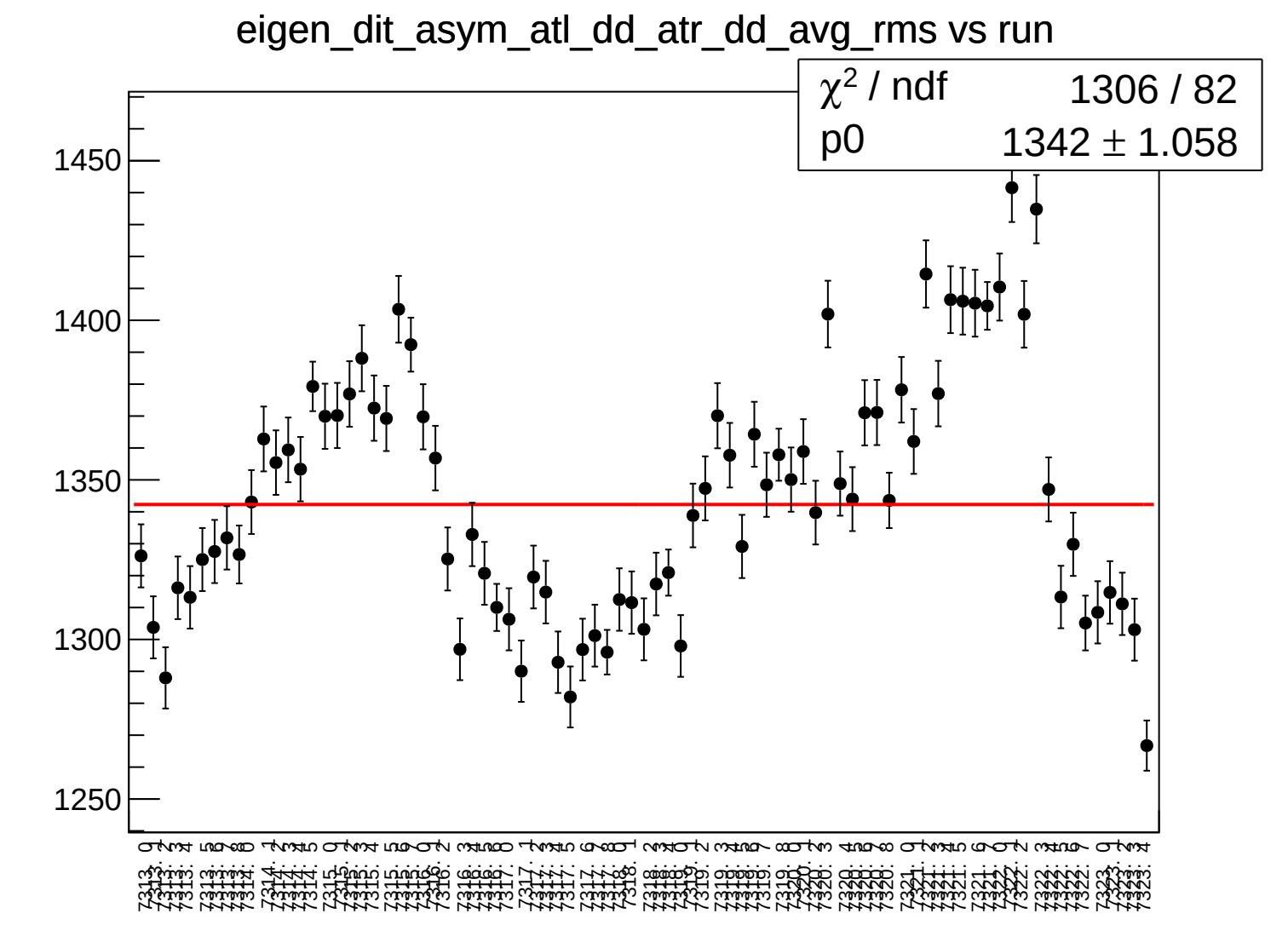

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.93 / 82
p0 −7982 ± 7223
200
100
0
−100
−200
−300
pull
Entries 83
Mean 909.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

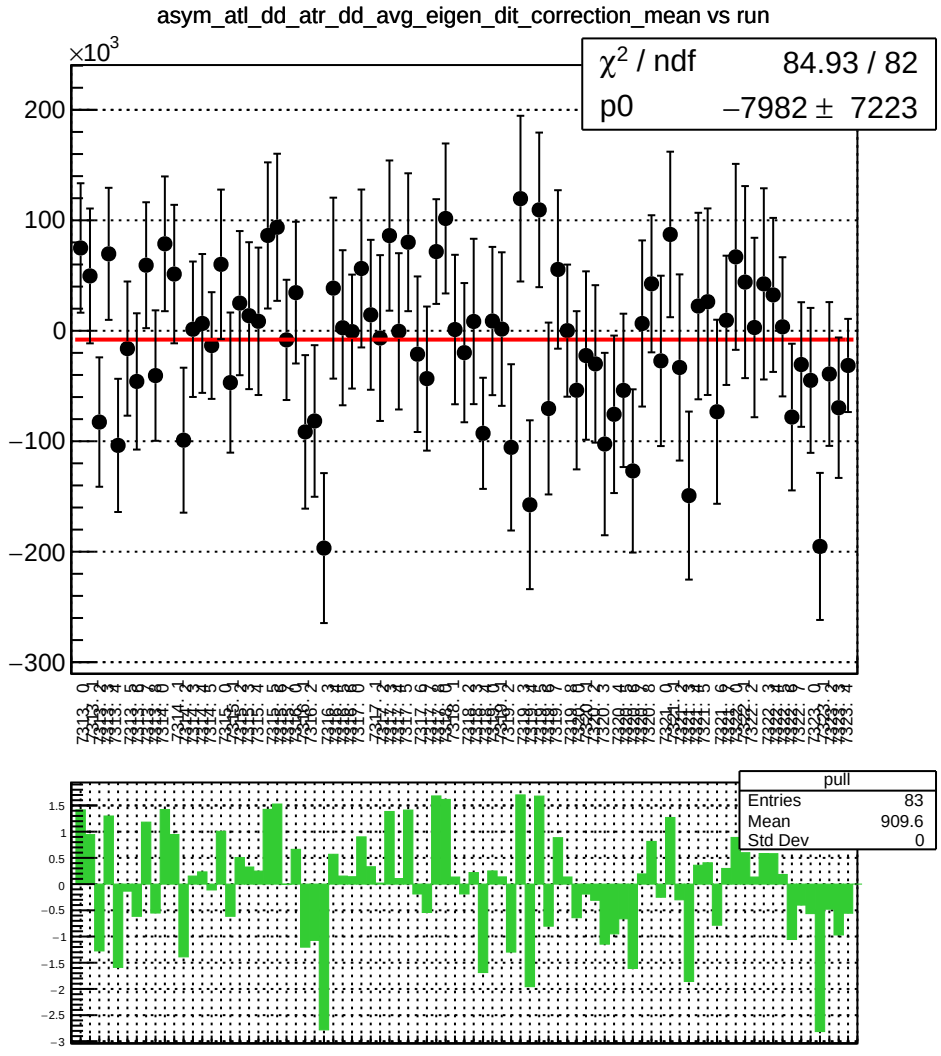

pull1D
Entries 83
Mean −0.005616
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

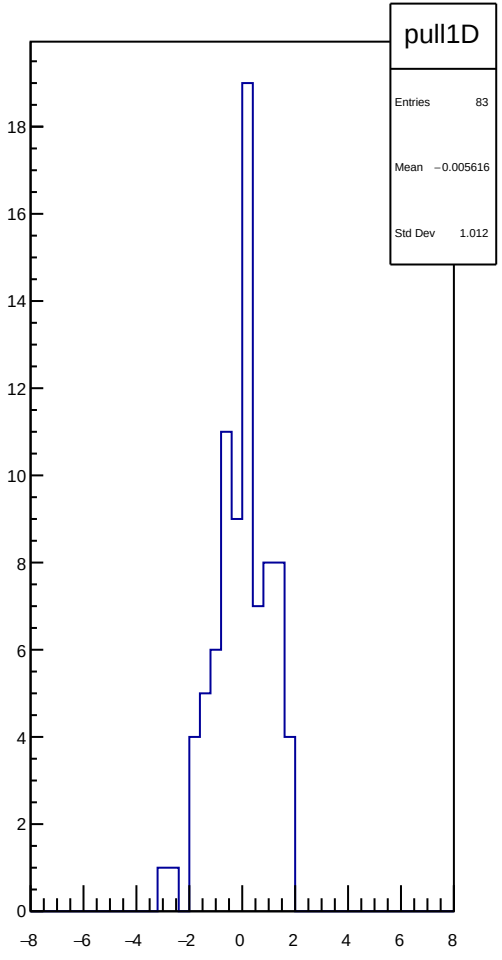

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 82
p0 6447 ± 5.108
8500
8000
7500
7000
6500
6000
5500
5000
4500

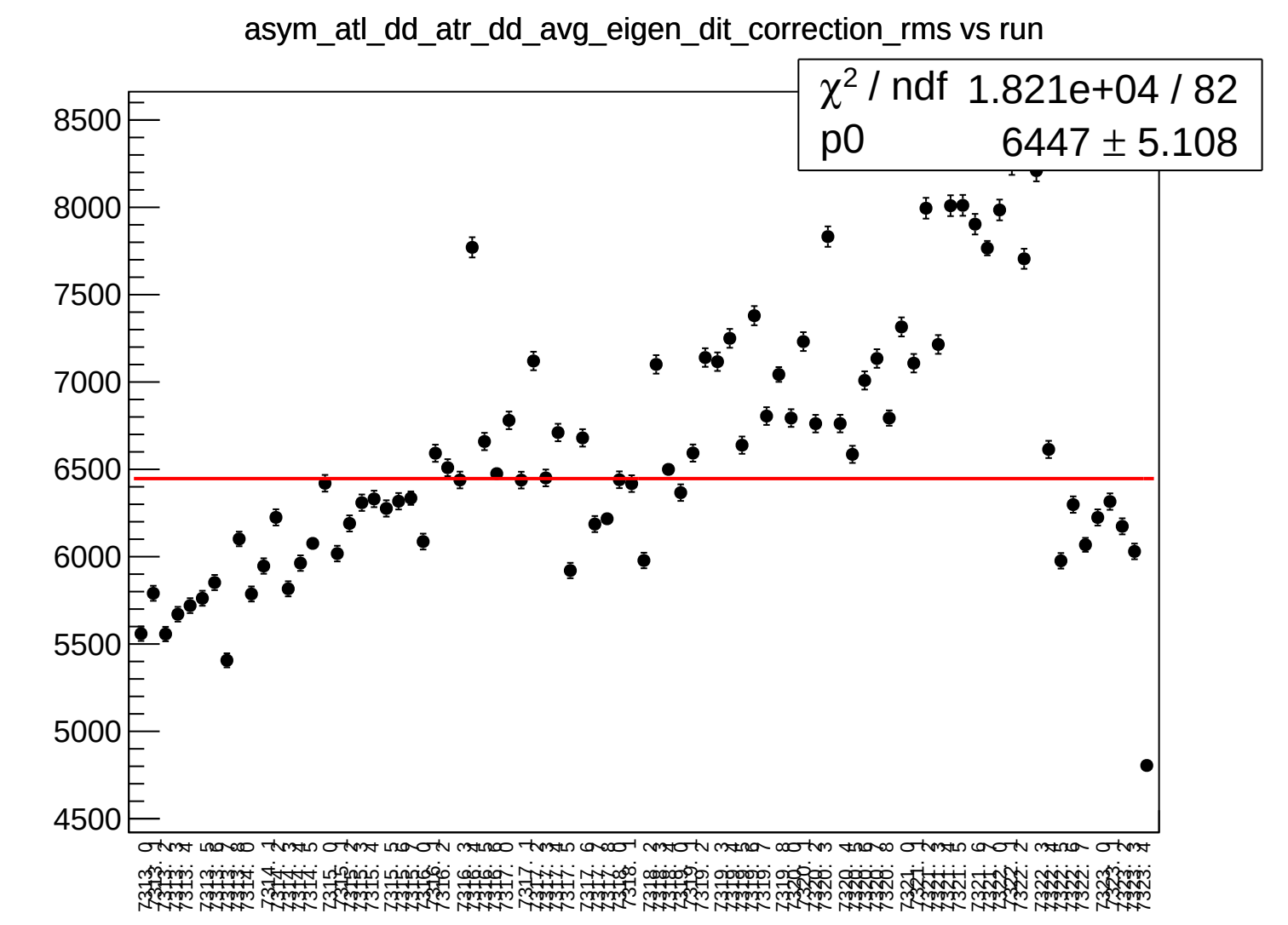

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.79 / 82
p0 −1643 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 451.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

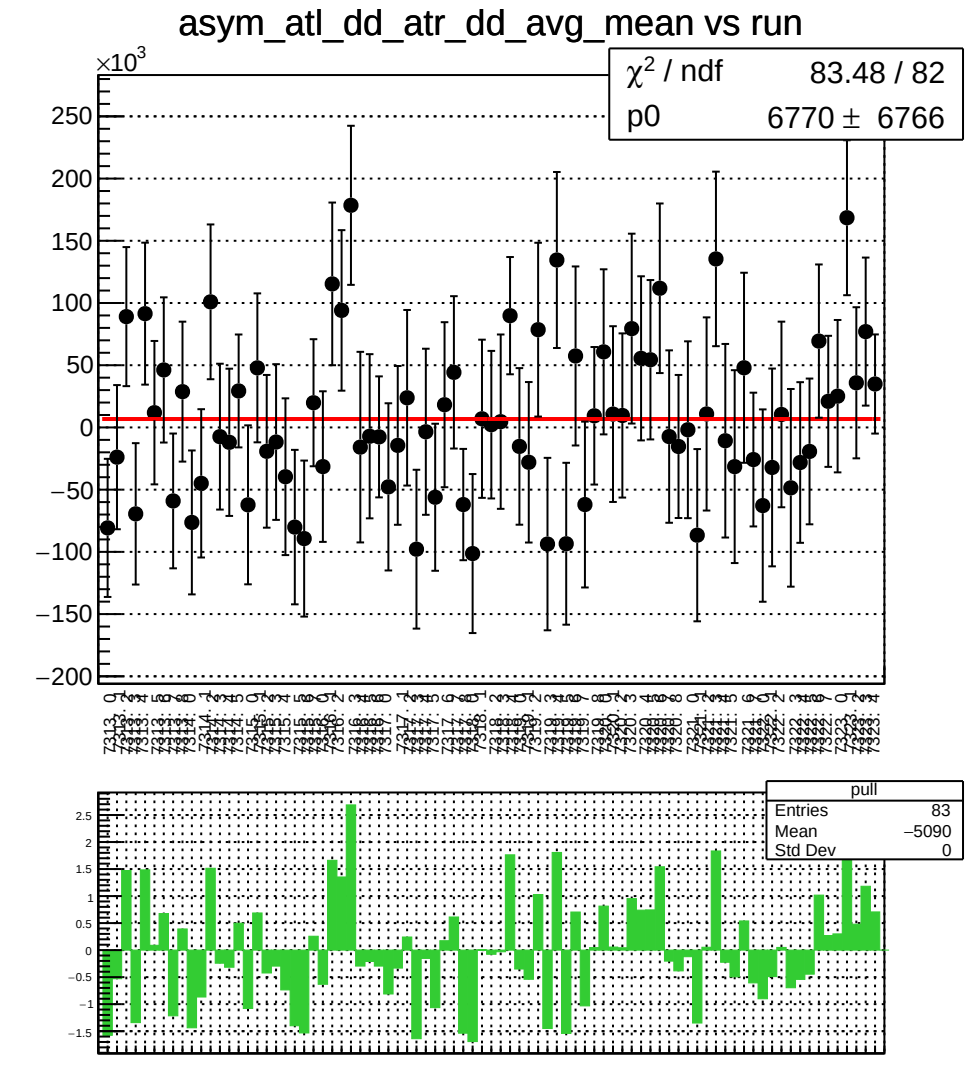

pull1D
Entries 83
Mean −0.01378
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

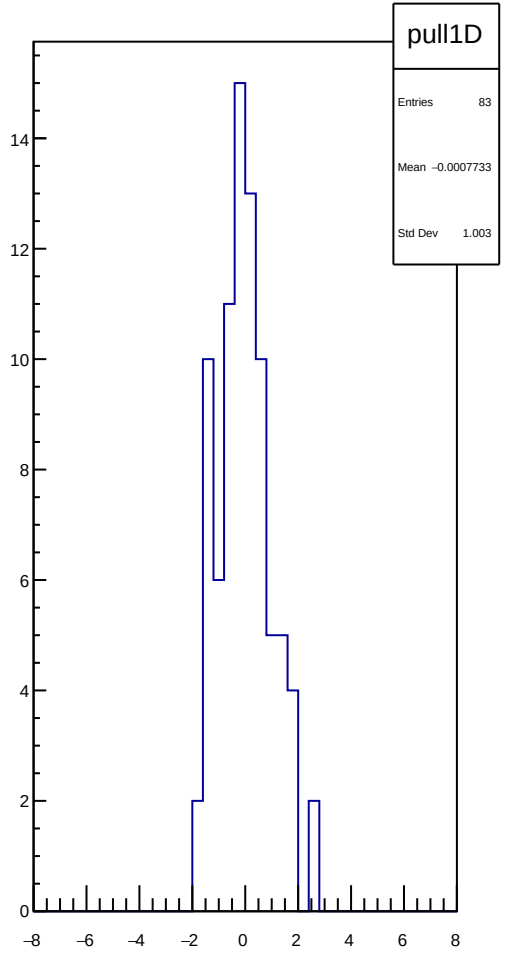

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1306 / 82
p0 1342 ± 1.058
1450
1400
1350
1300
1250

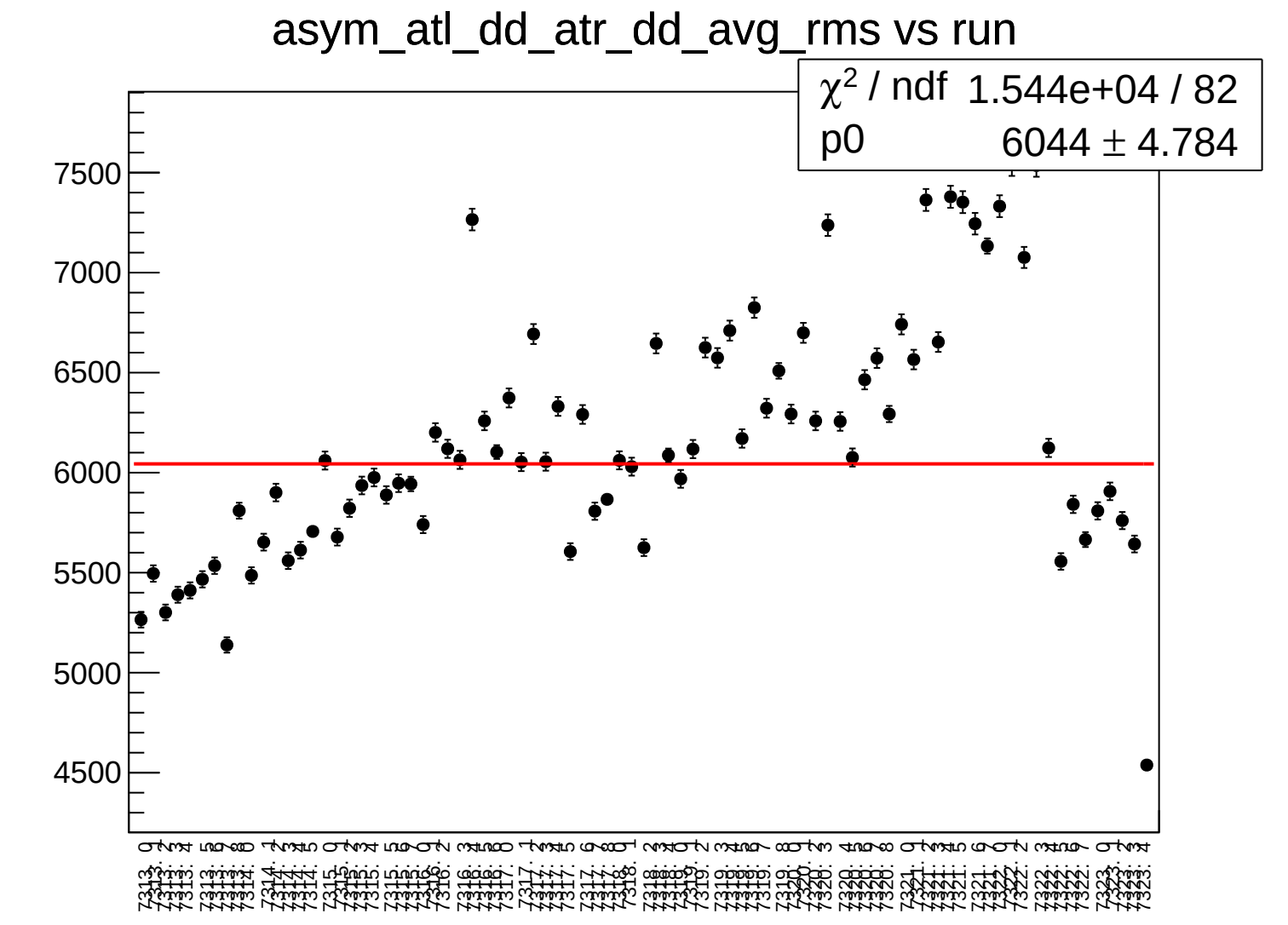

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.93 / 82
p0 −7982 ± 7223
pull
Entries 83
Mean 909.6
Std Dev 0

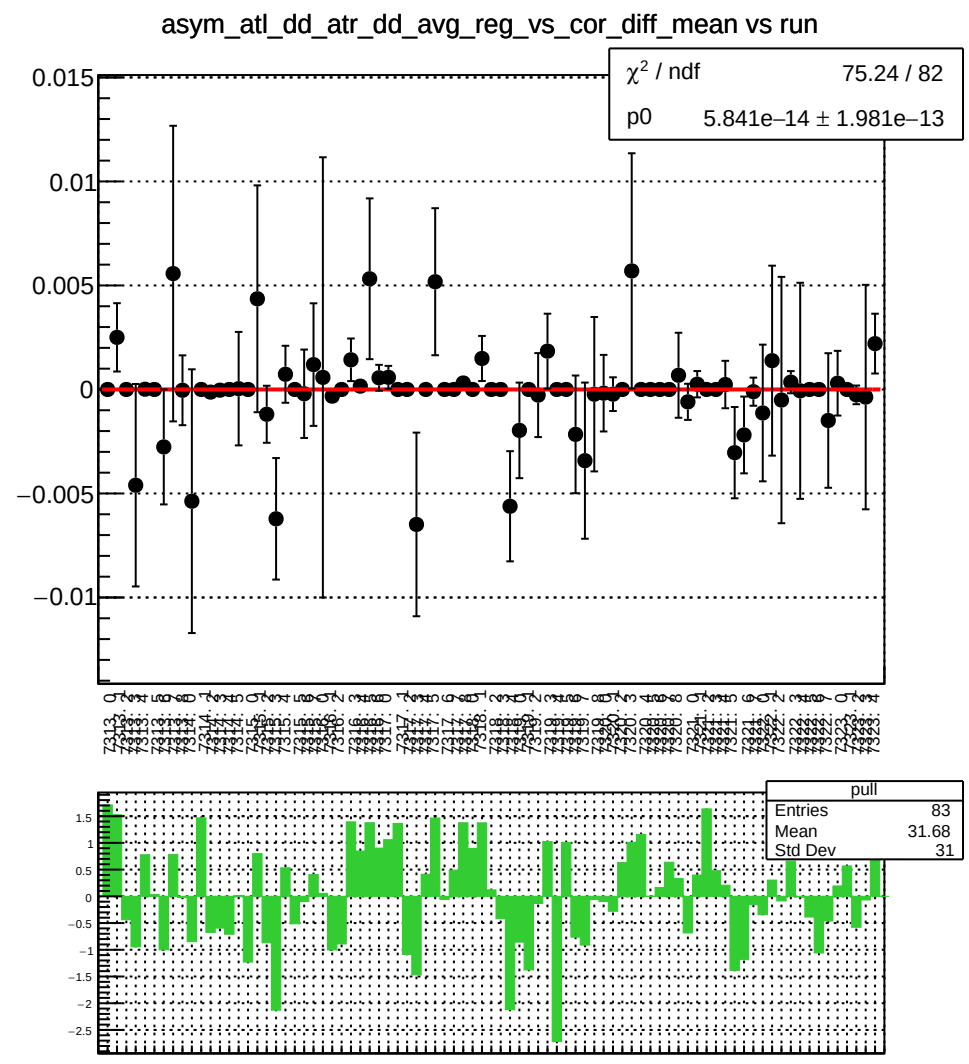

pull1D
Entries 83
Mean −0.005616
Std Dev 1.012

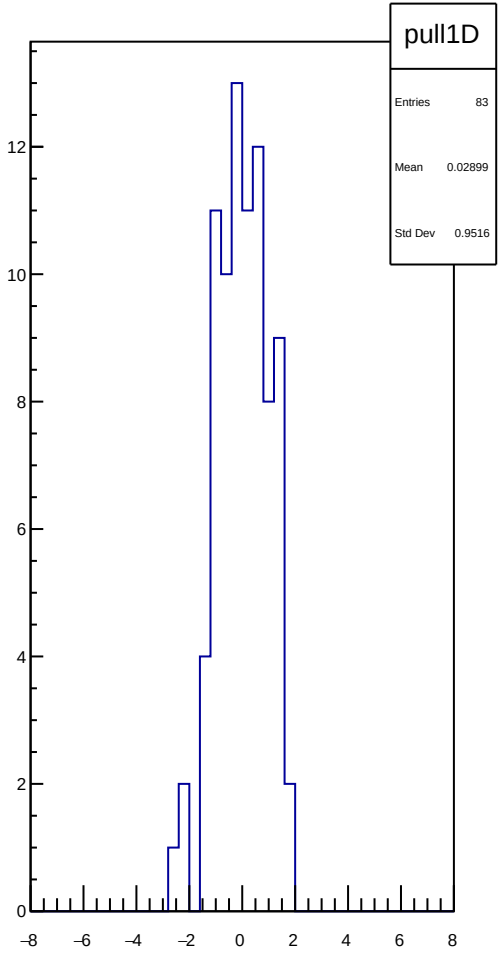

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 82
p0 6447 ± 5.108
8500
8000
7500
7000
6500
6000
5500
5000
4500

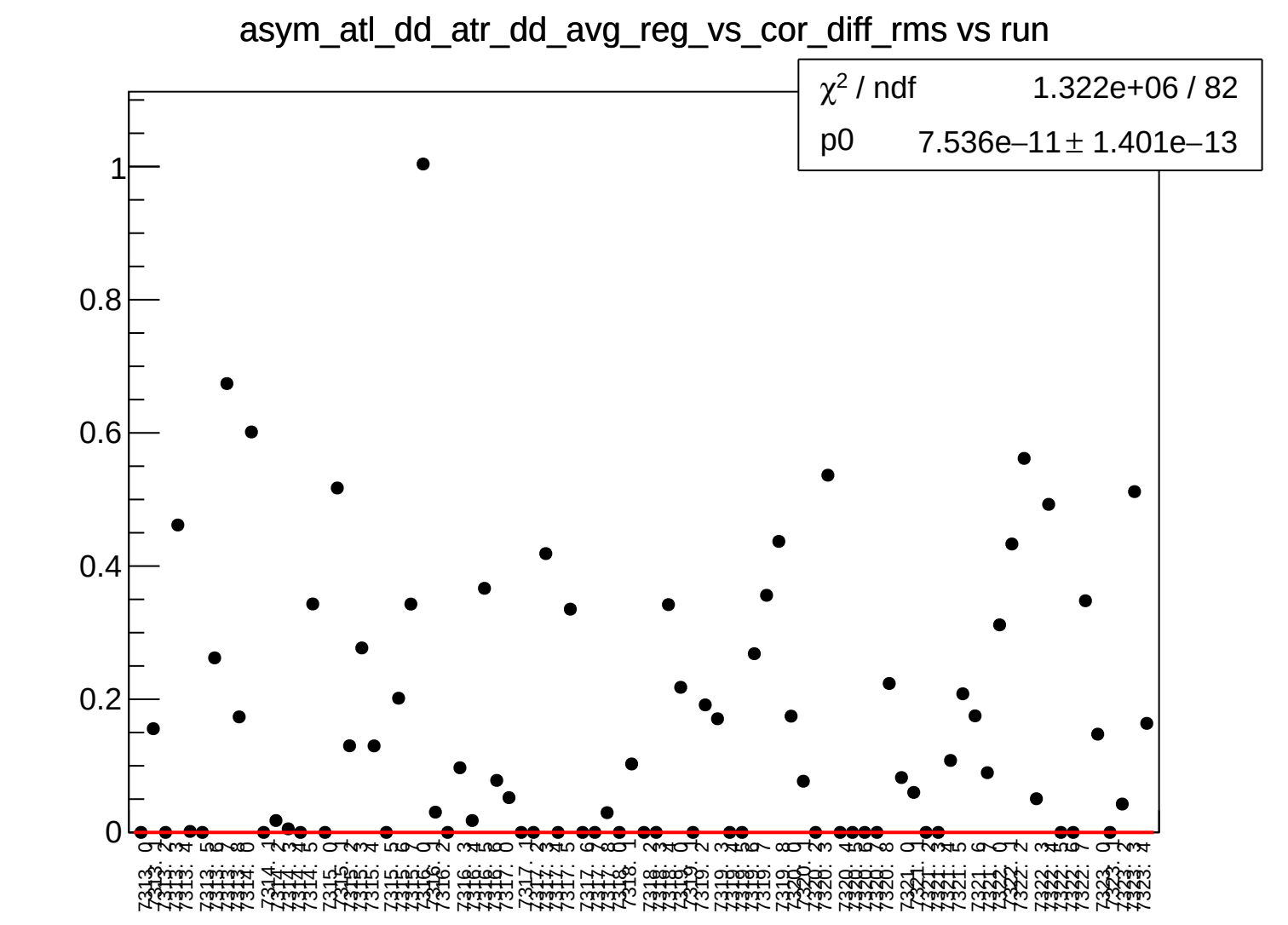

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 83.48 / 82
p0 6770 ± 6766
pull
Entries 83
Mean −5090
Std Dev 0

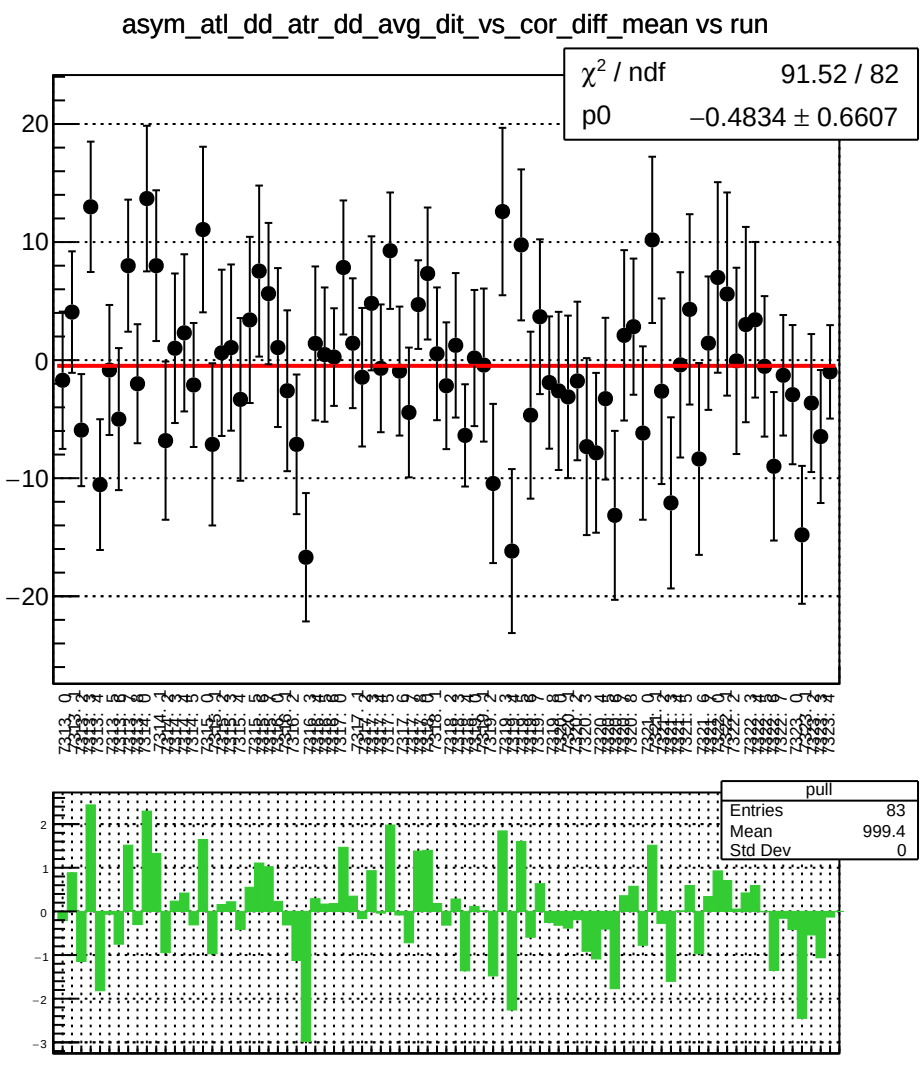

pull1D
Entries 83
Mean −0.0007733
Std Dev 1.003

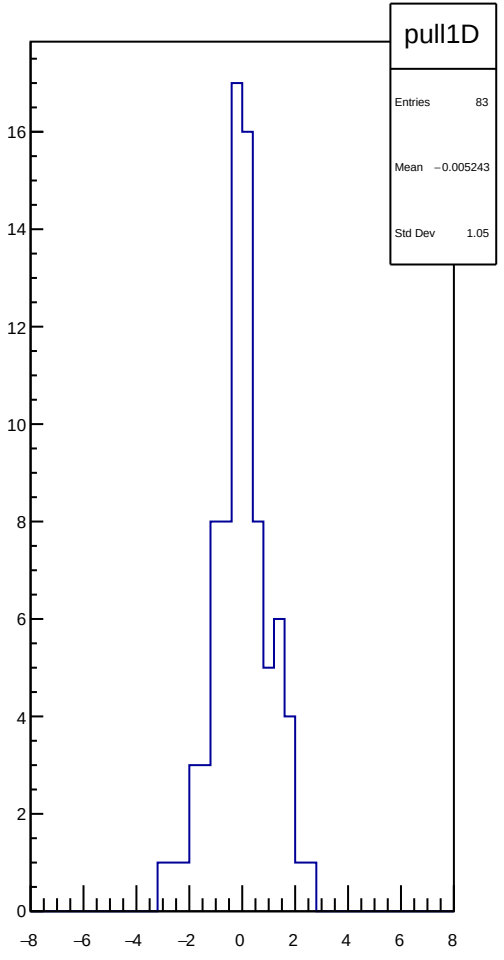

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.544e+04 / 82
p0 6044 ± 4.784
7500
7000
6500
6000
5500
5000
4500

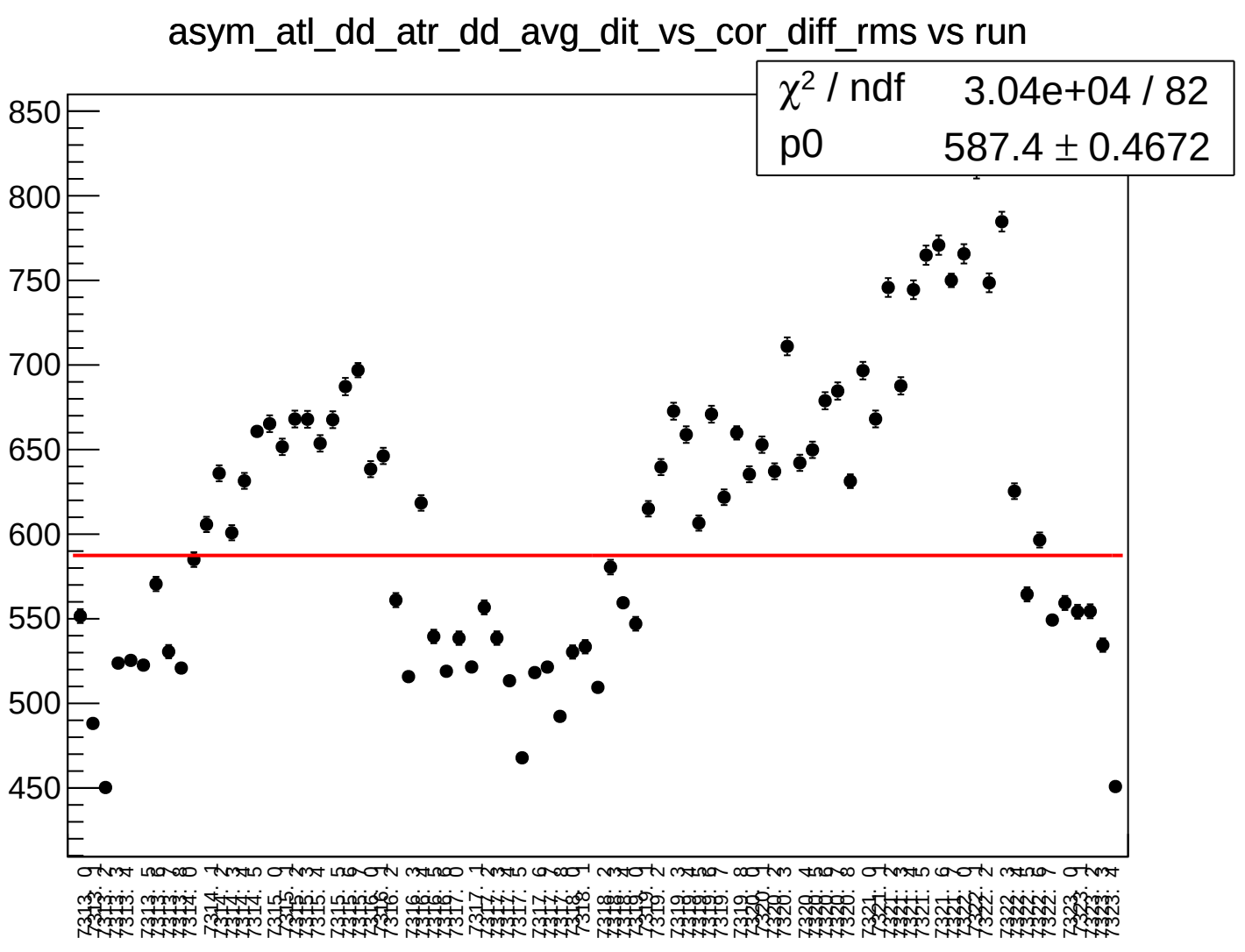

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.24 / 82
p0 5.841e−14 ± 1.981e−13
pull
Entries 83
Mean 31.68
Std Dev 31

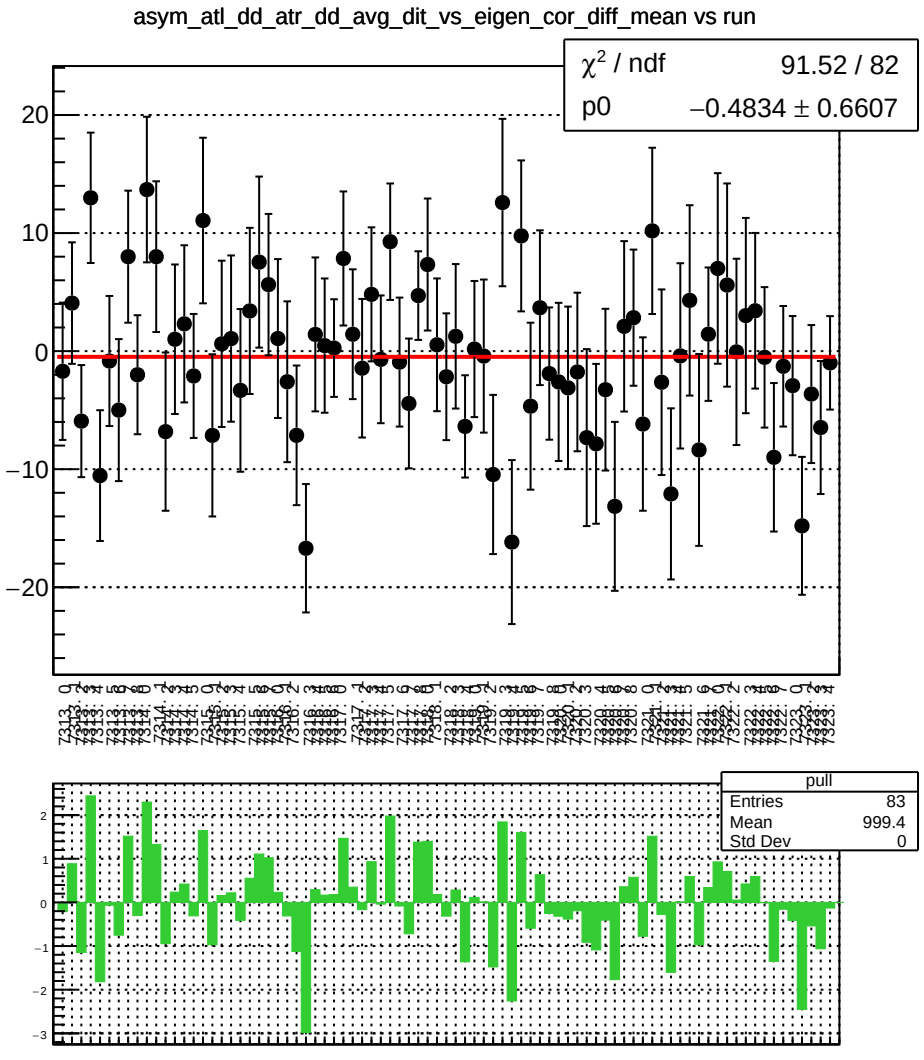

pull1D
Entries 83
Mean 0.02899
Std Dev 0.9516

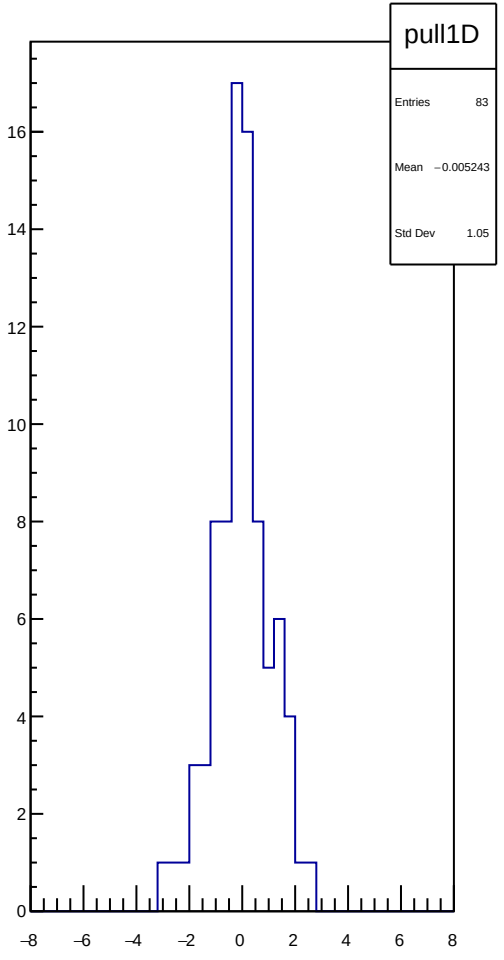

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.322e+06 / 82
p0 7.536e−11 ± 1.401e−13
1
0.8
0.6
0.4
0.2
0

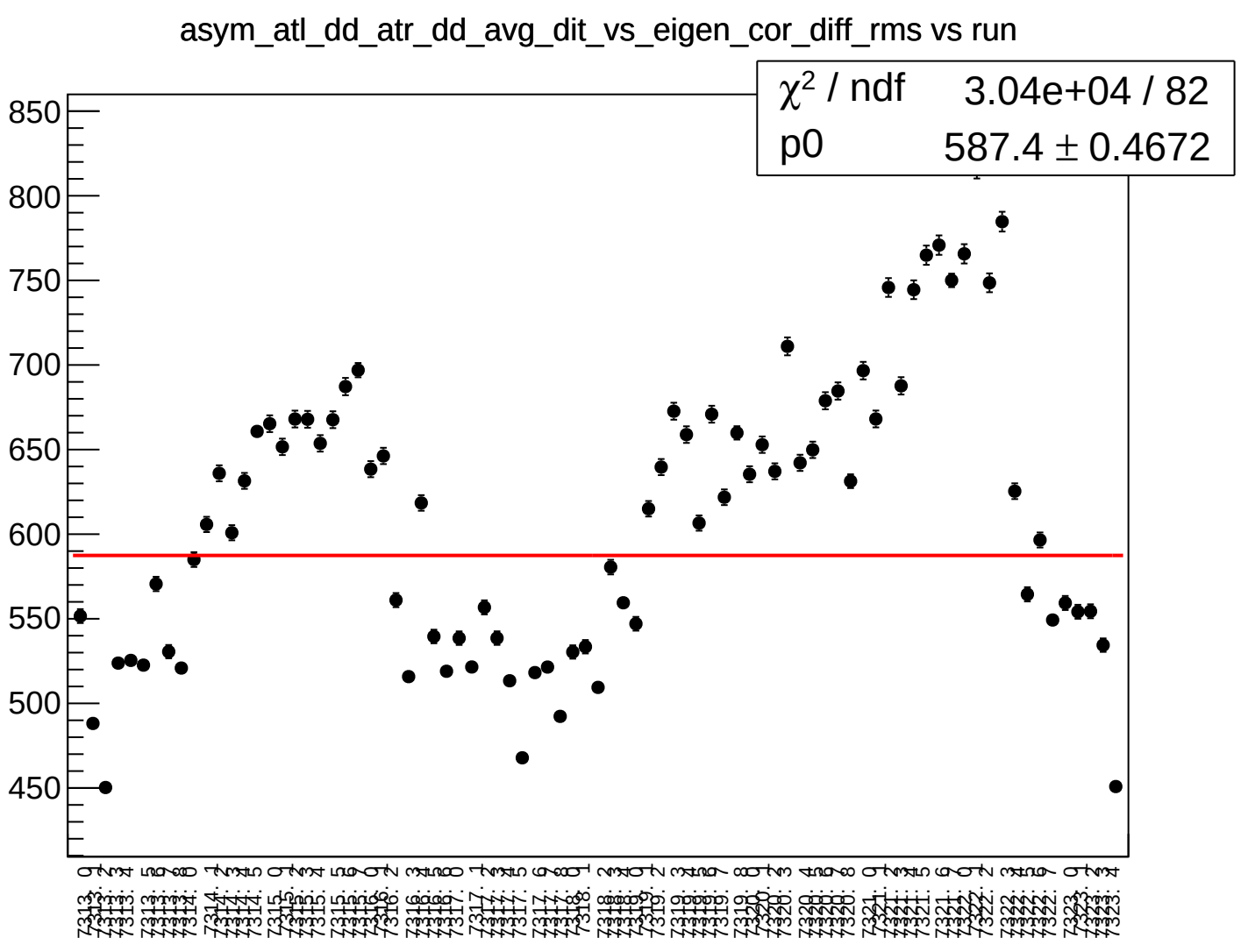

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.4
Std Dev 0

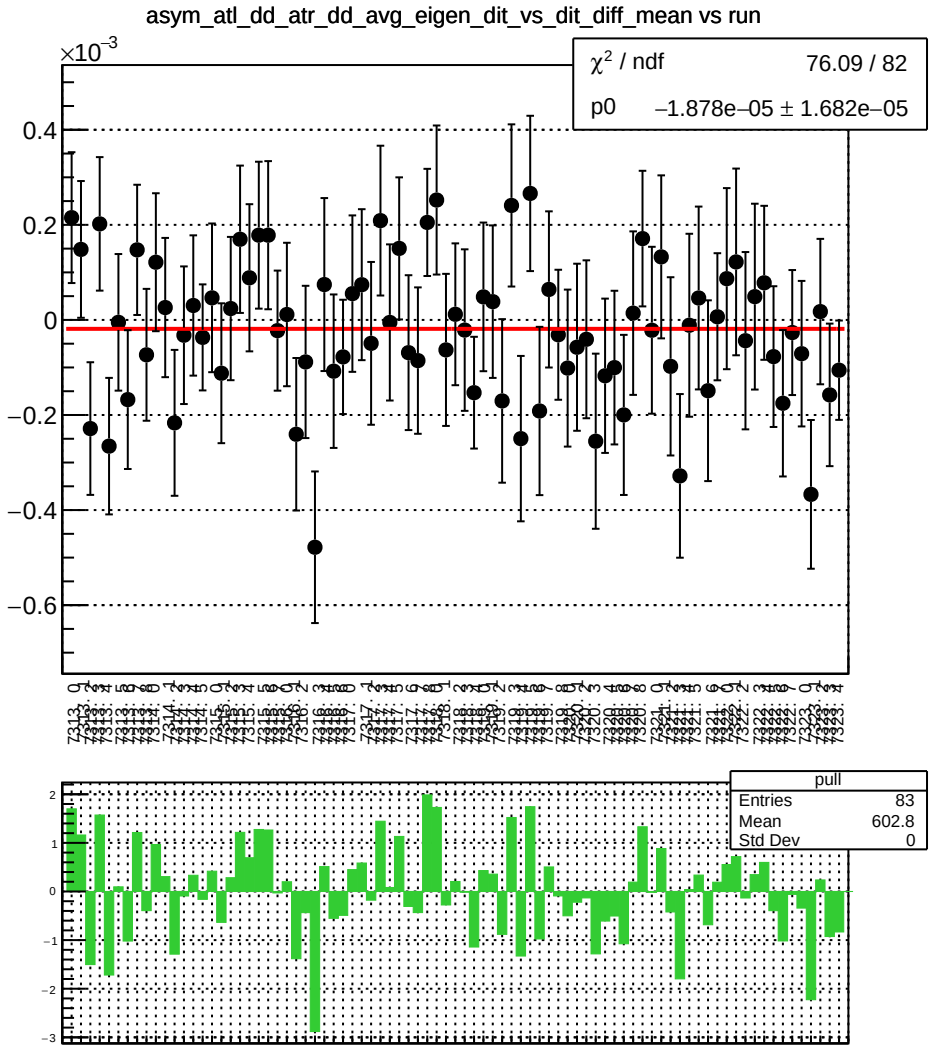

pull1D
Entries 83
Mean −0.005243
Std Dev 1.05

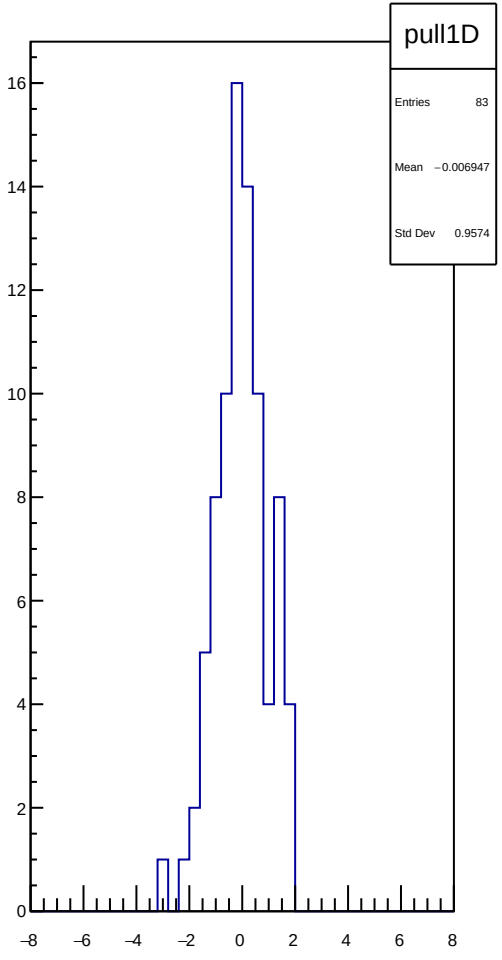

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

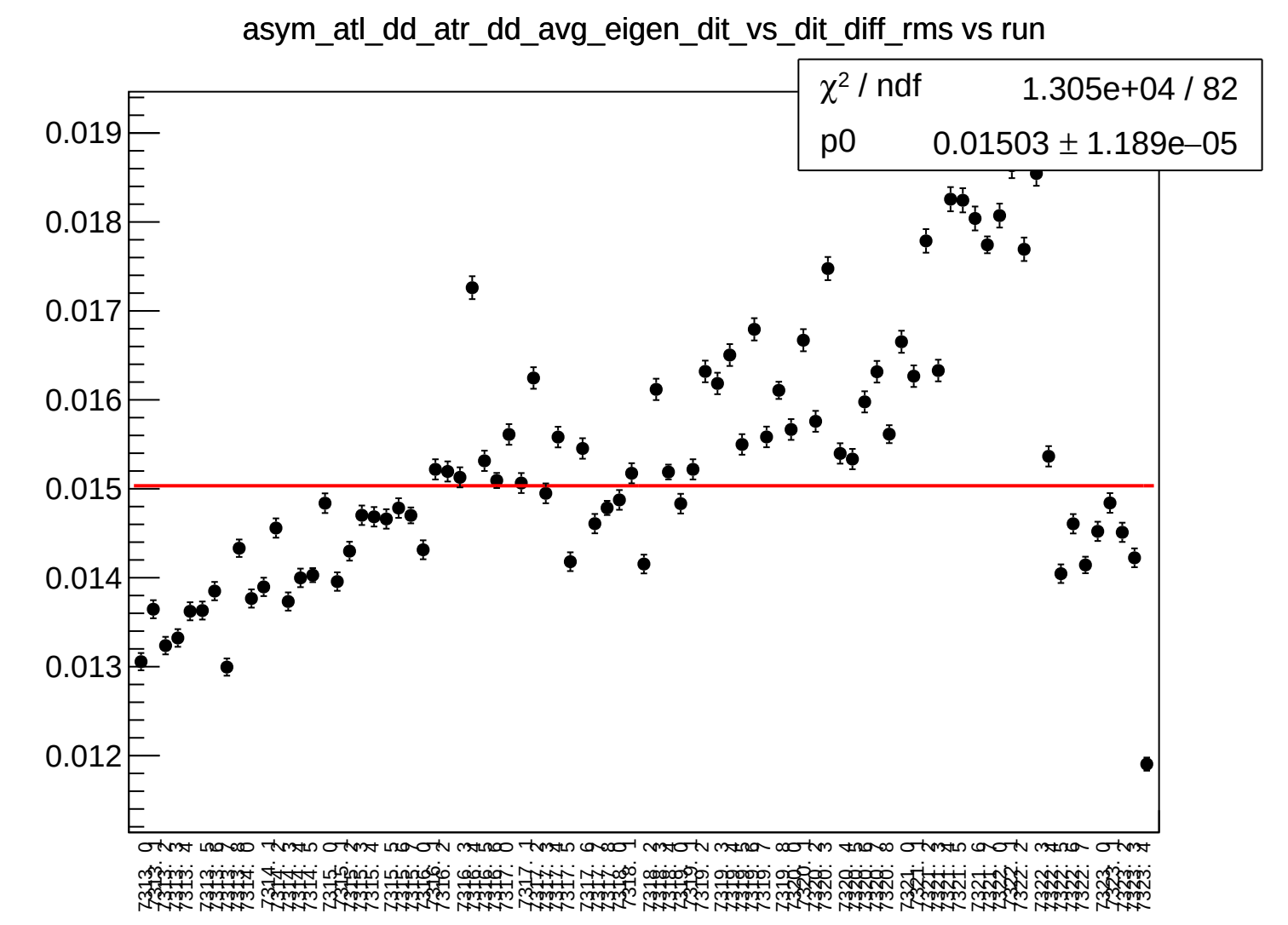

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.4
Std Dev 0

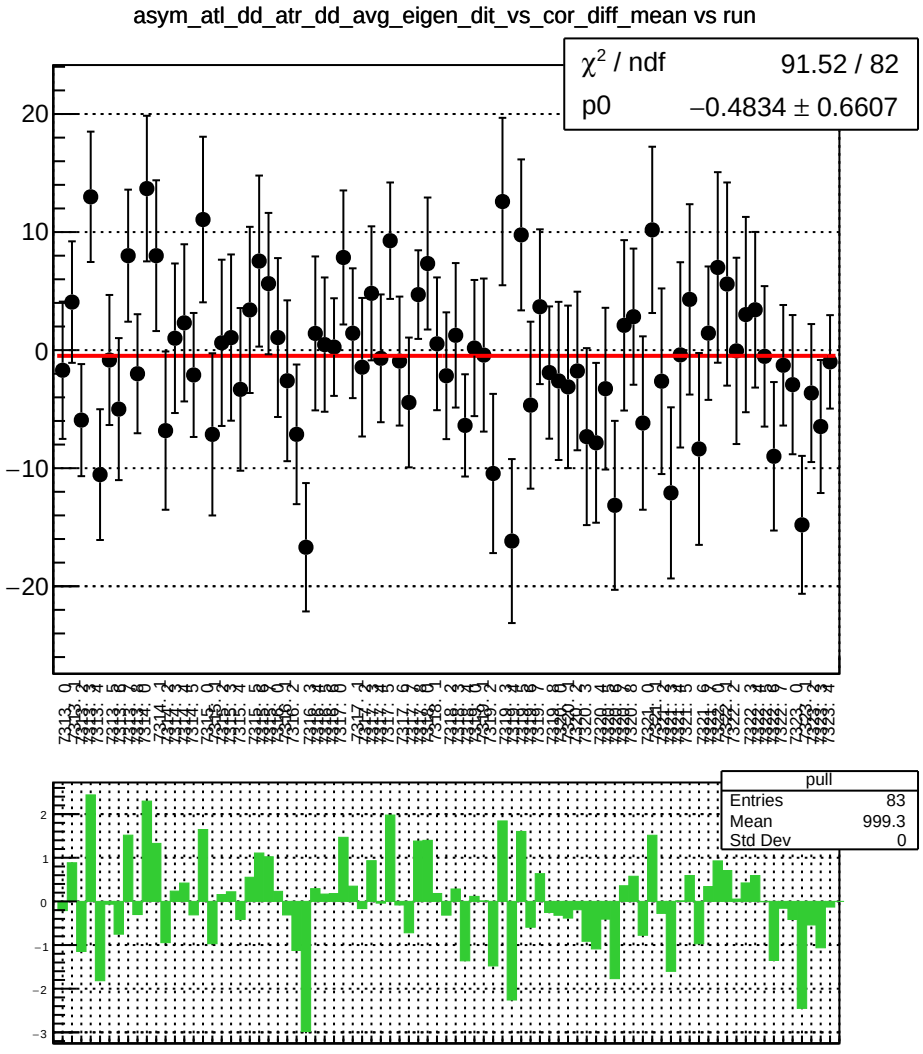

pull1D
Entries 83
Mean −0.005243
Std Dev 1.05

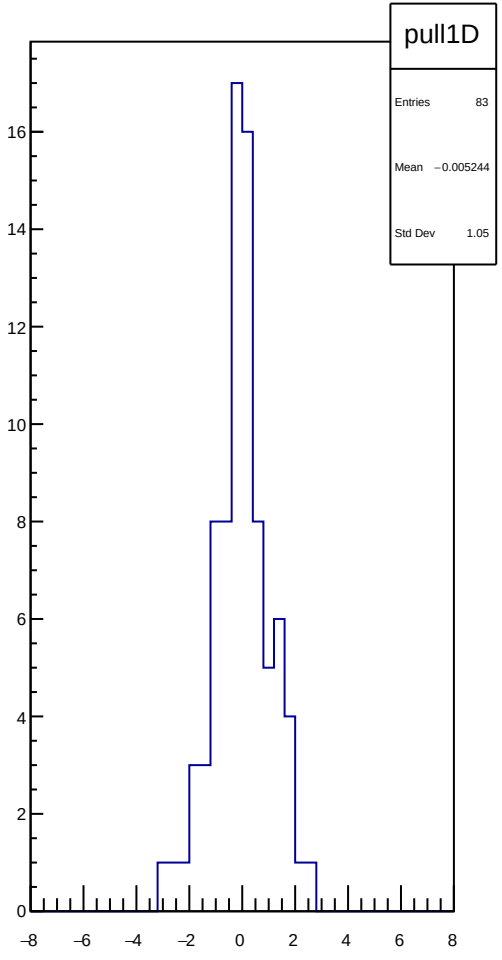

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

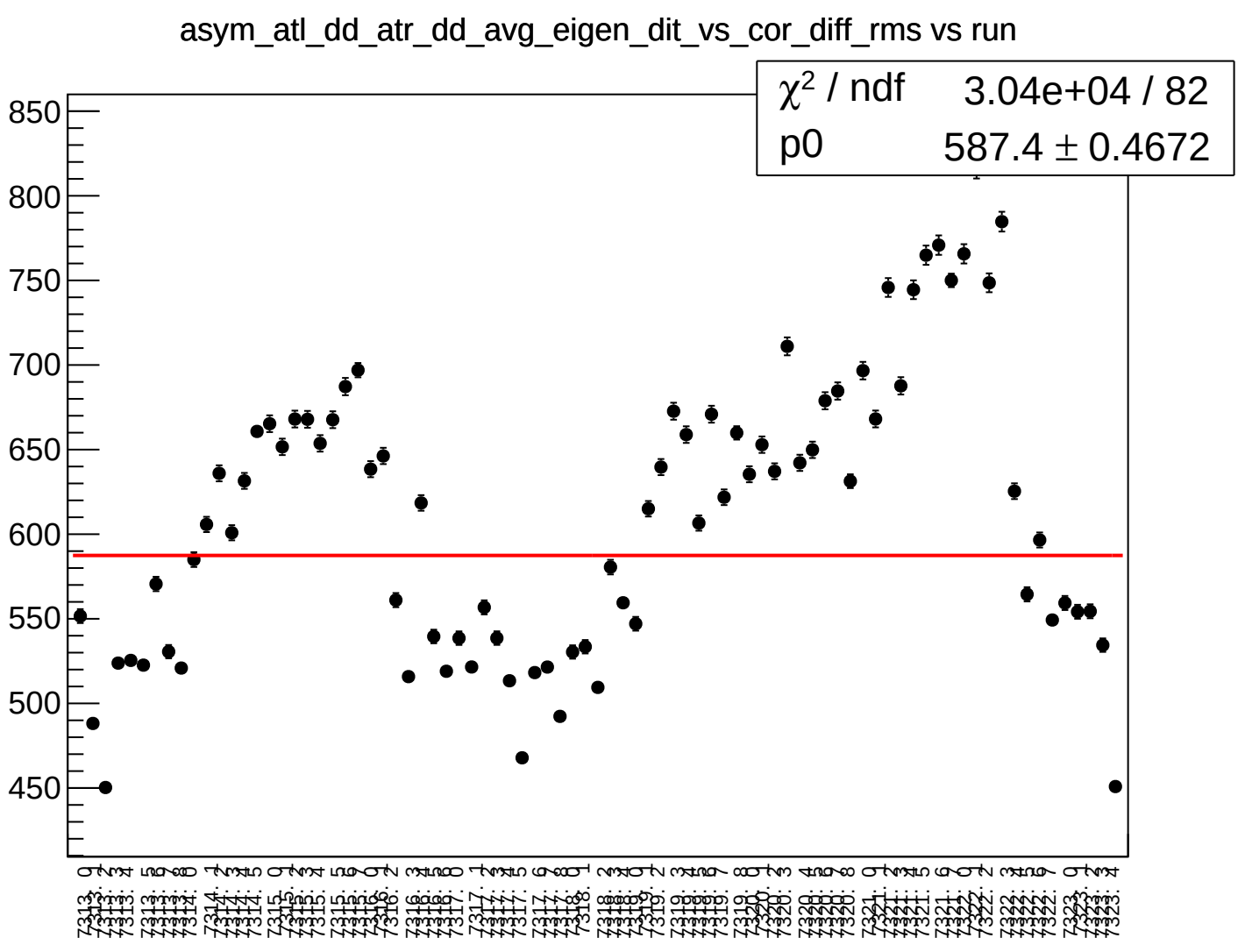

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.09 / 82
p0 −1.878e−05 ± 1.682e−05
pull
Entries 83
Mean 602.8
Std Dev 0

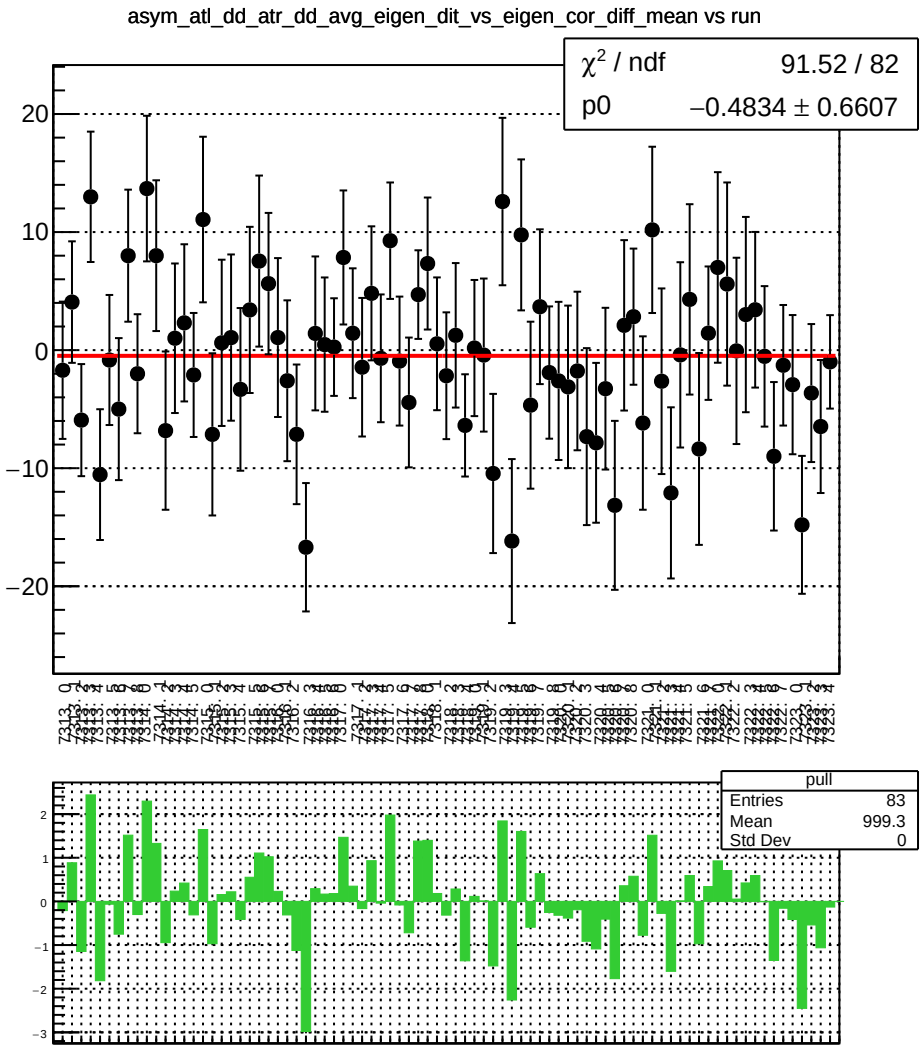

pull1D
Entries 83
Mean −0.006947
Std Dev 0.9574

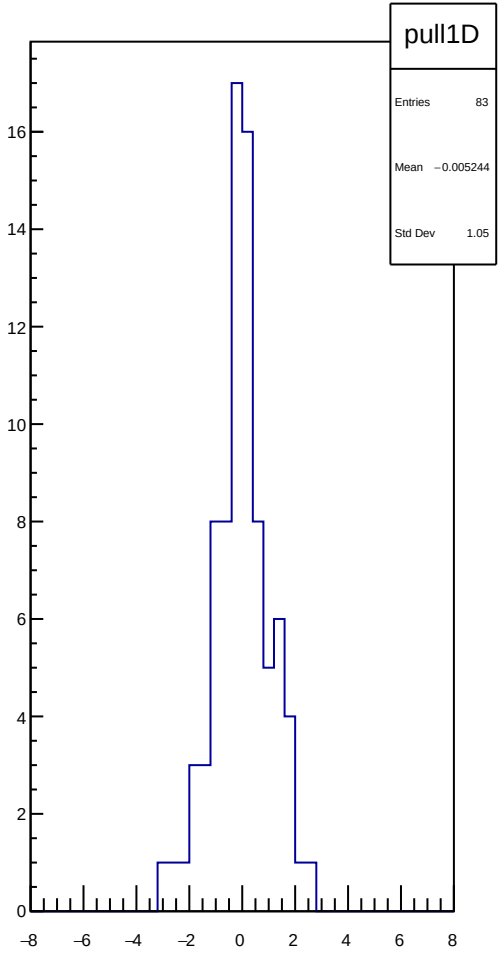

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.305e+04 / 82
p0 0.01503 ± 1.189e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

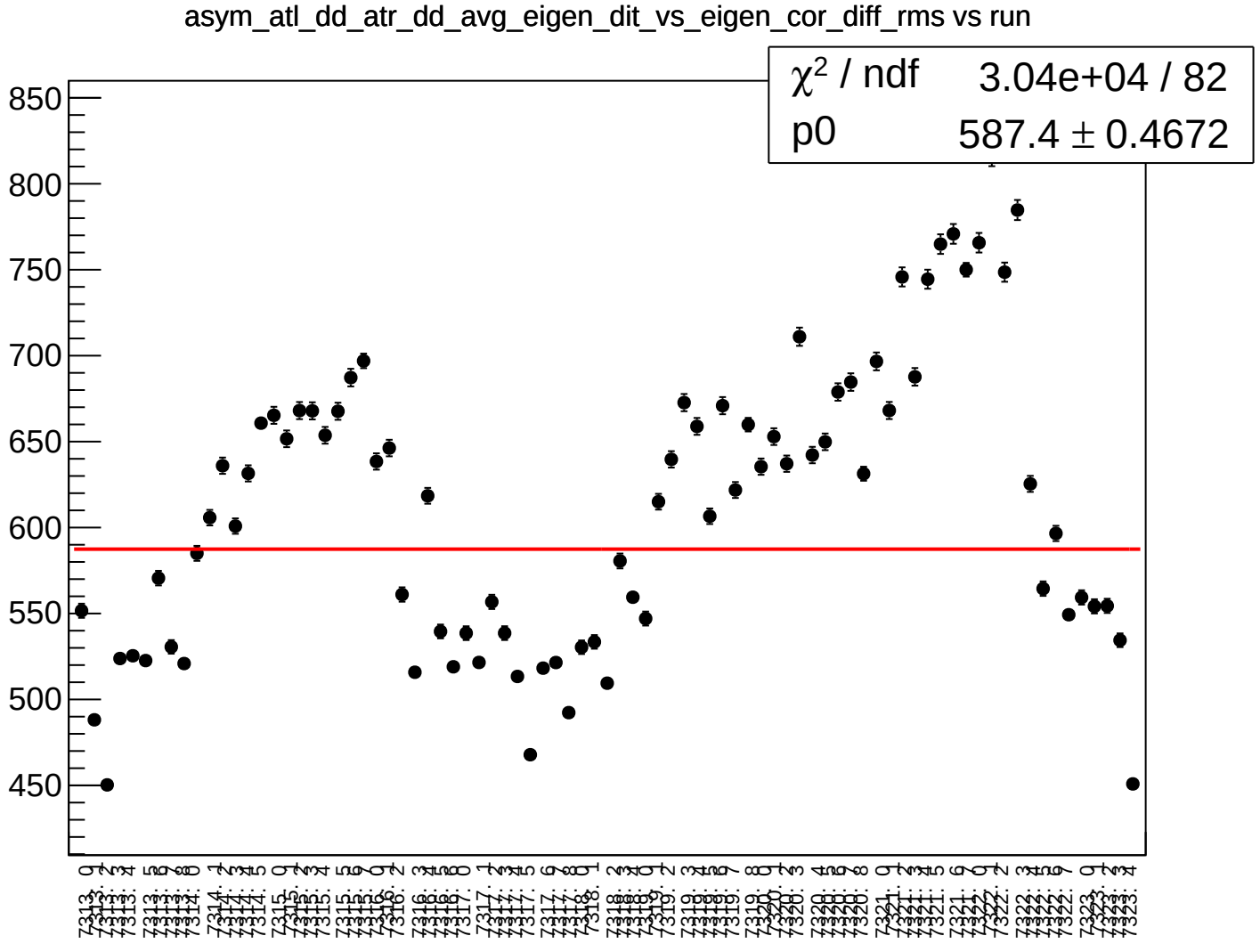

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.3
Std Dev 0

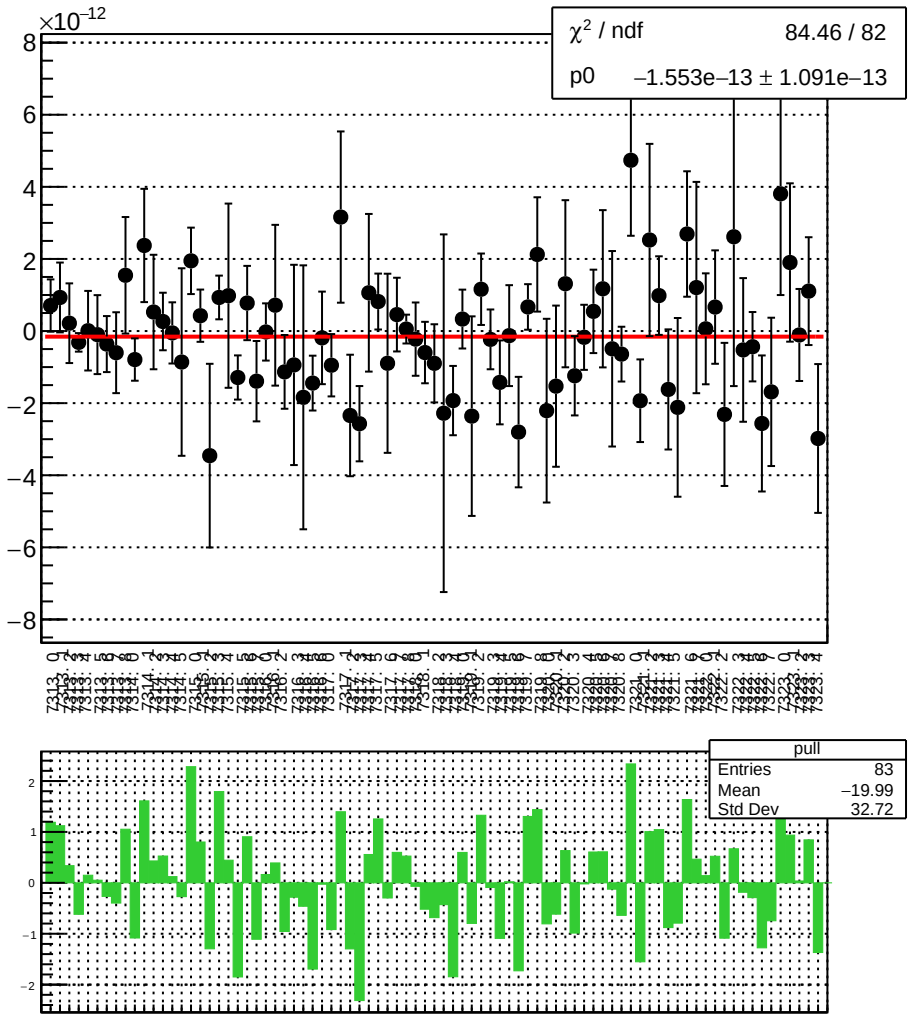

pull1D
Entries 83
Mean −0.005244
Std Dev 1.05

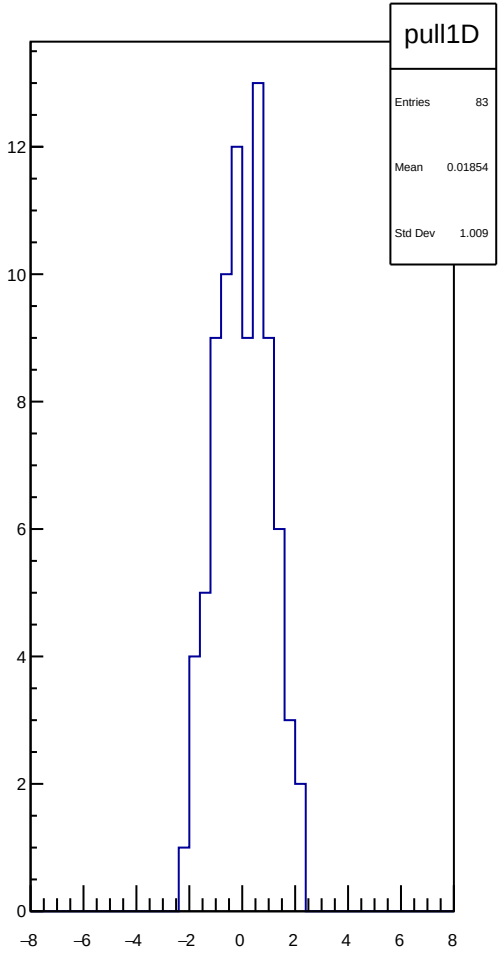

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

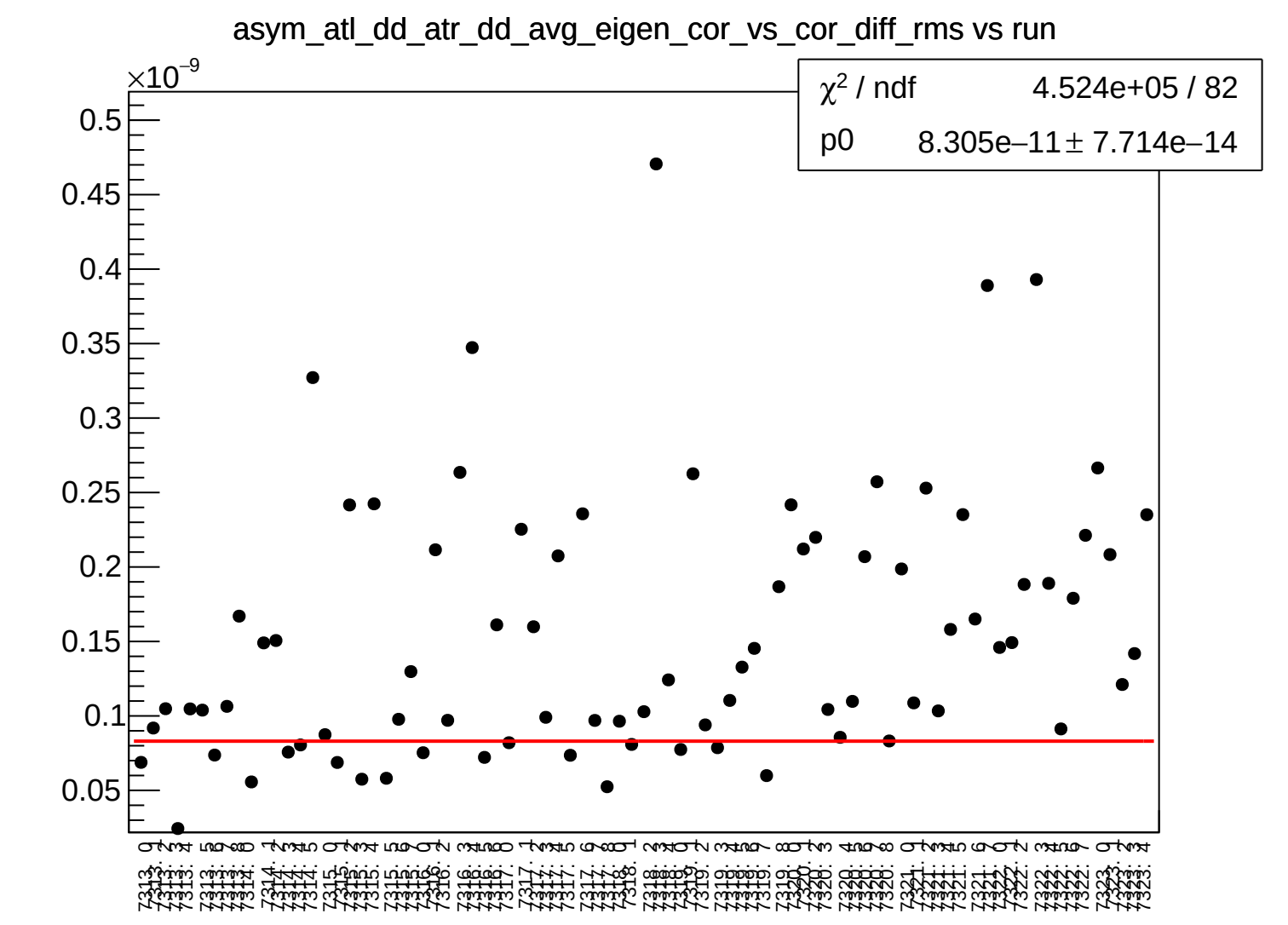

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.3
Std Dev 0

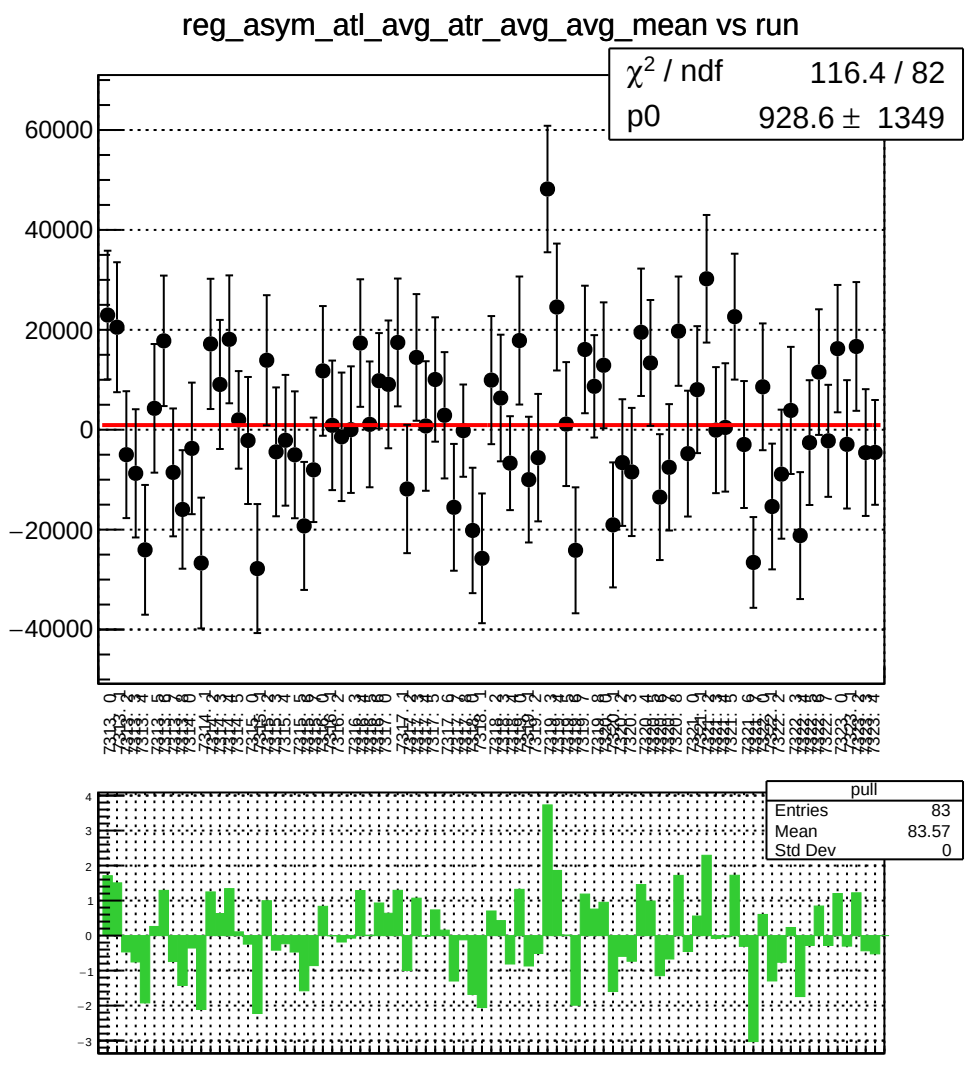

pull1D
Entries 83
Mean −0.005244
Std Dev 1.05

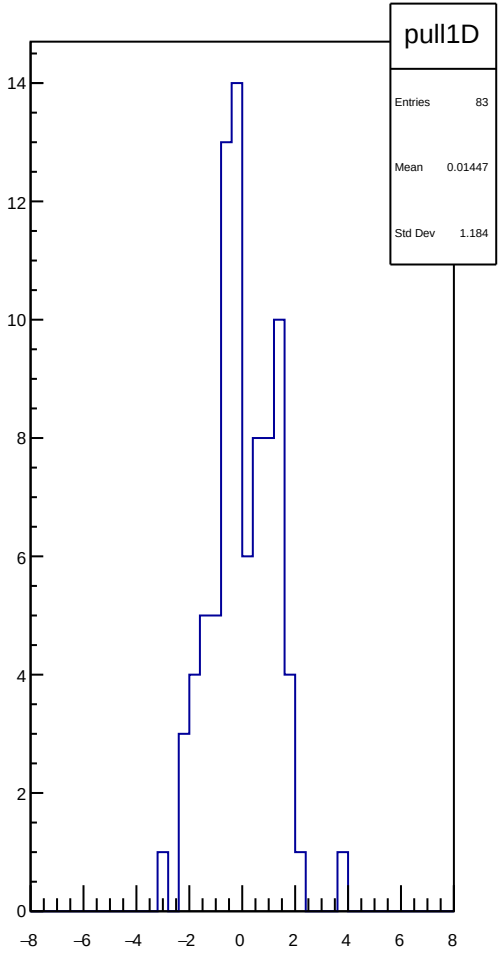

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

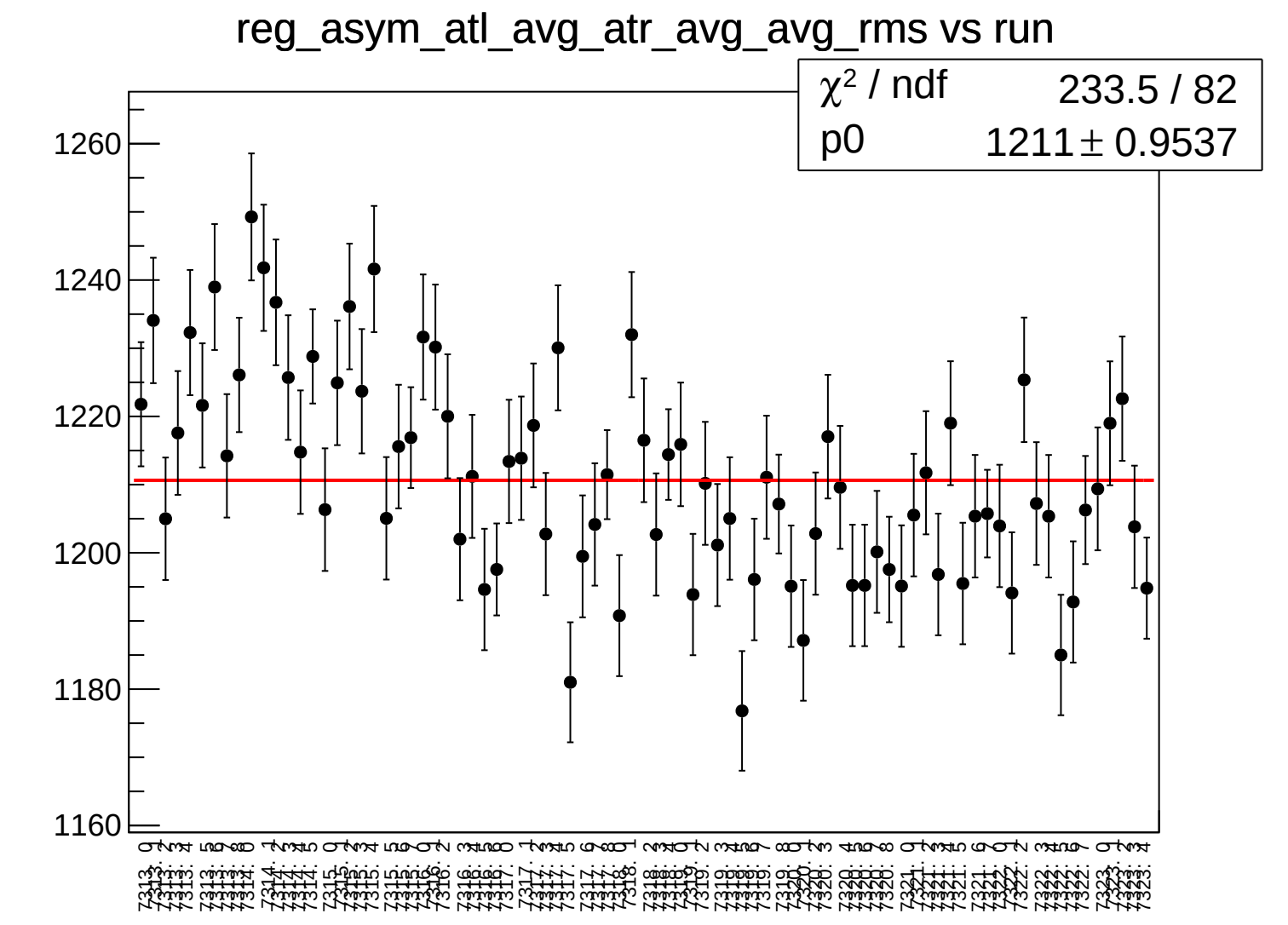

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.46 / 82
p0 −1.553e−13 ± 1.091e−13
pull
Entries 83
Mean −19.99
Std Dev 32.72

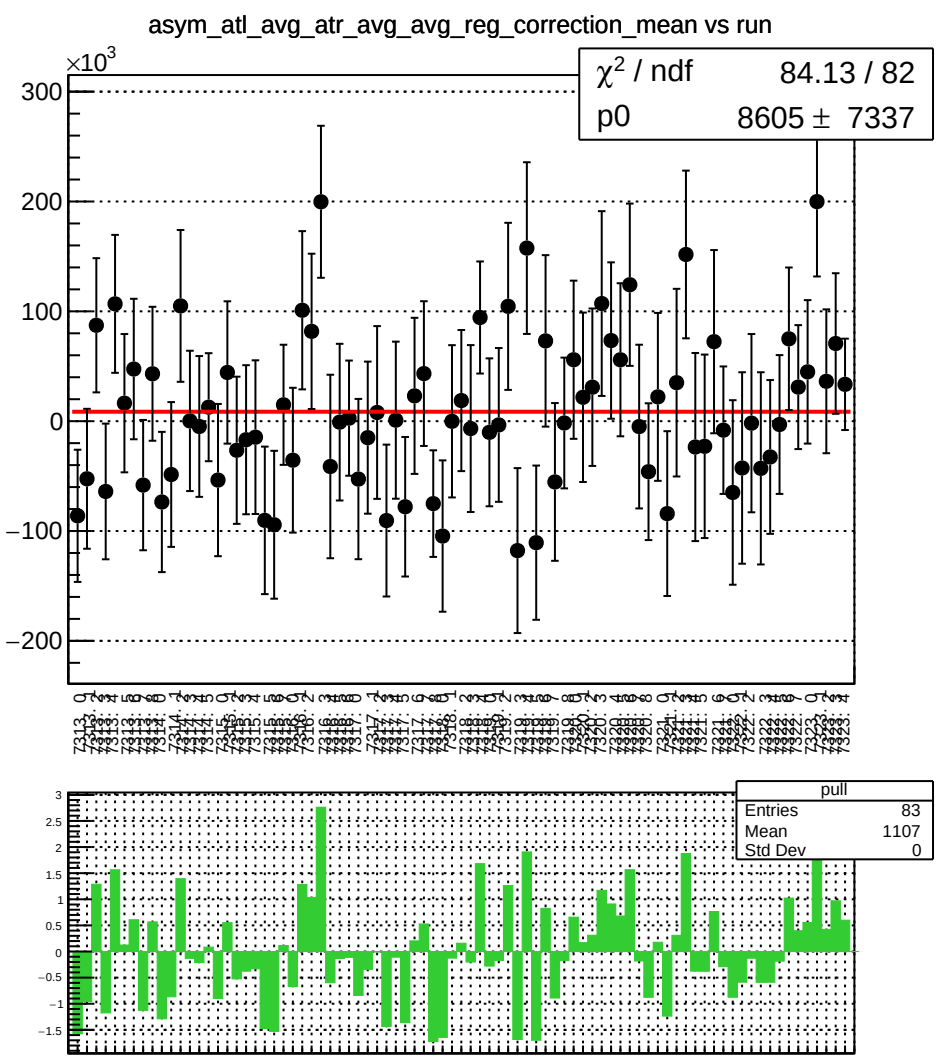

pull1D
Entries 83
Mean 0.01854
Std Dev 1.009

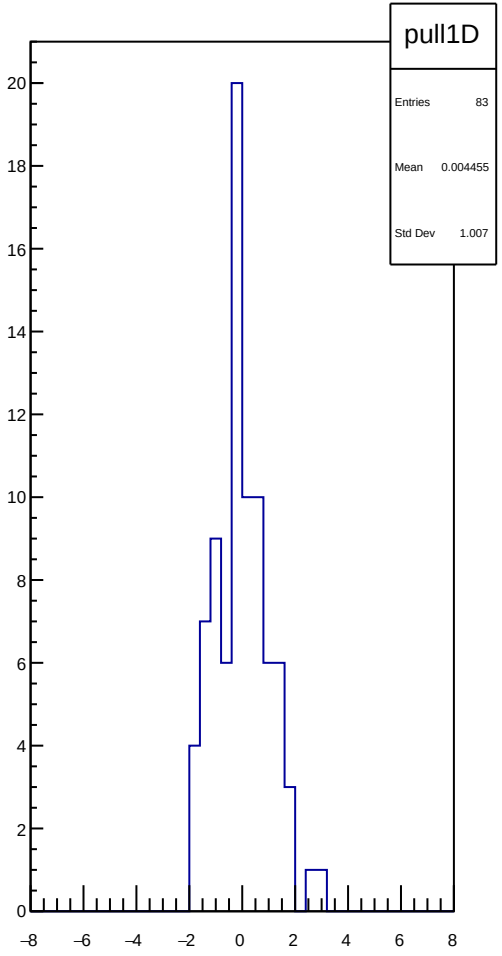

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.524e+05 / 82
p0 8.305e−11 ± 7.714e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

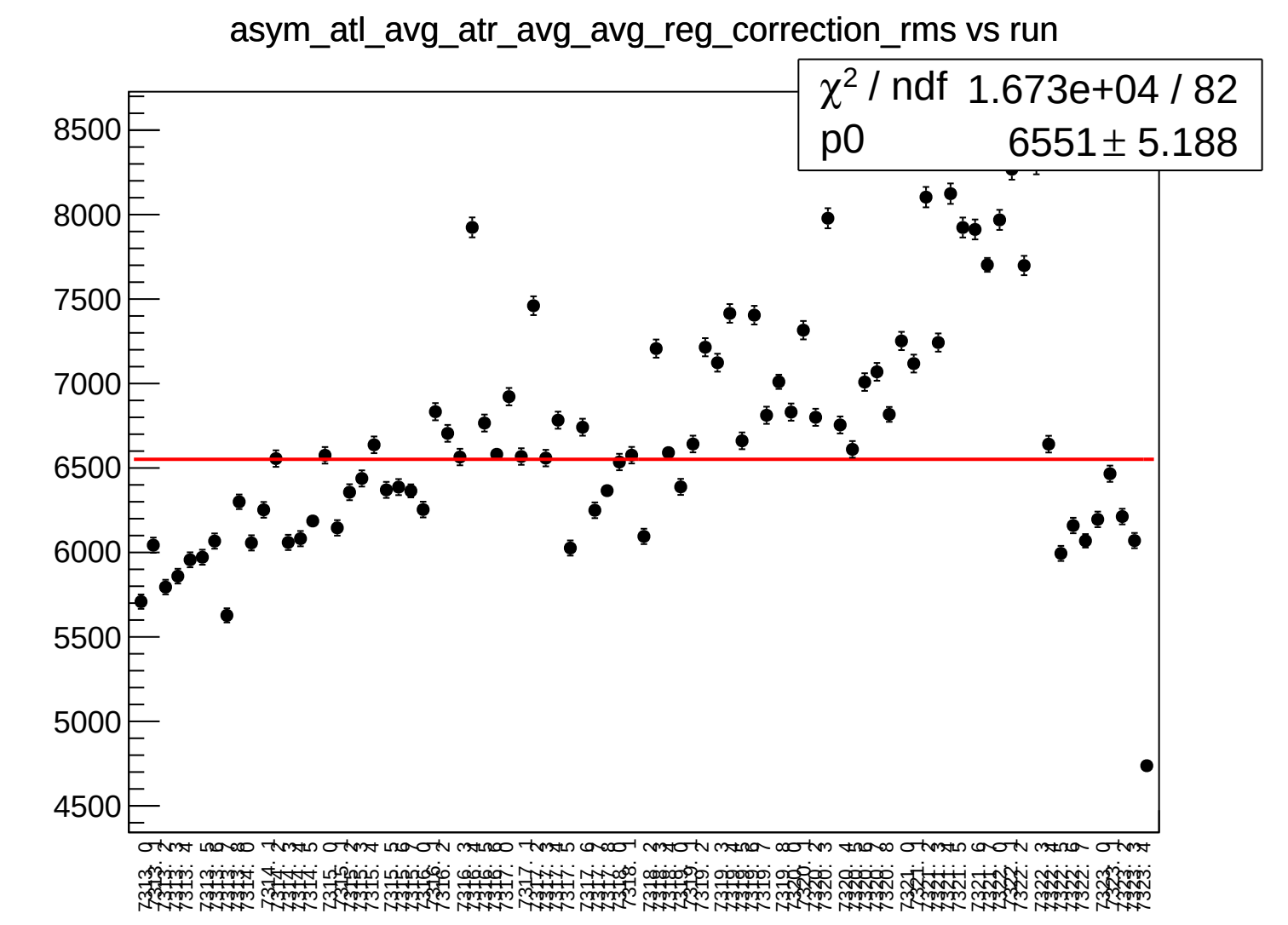

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 116.4 / 82
p0 928.6 ± 1349
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 83.57
Std Dev 0
4
3
2
1
0
−1
−2
−3

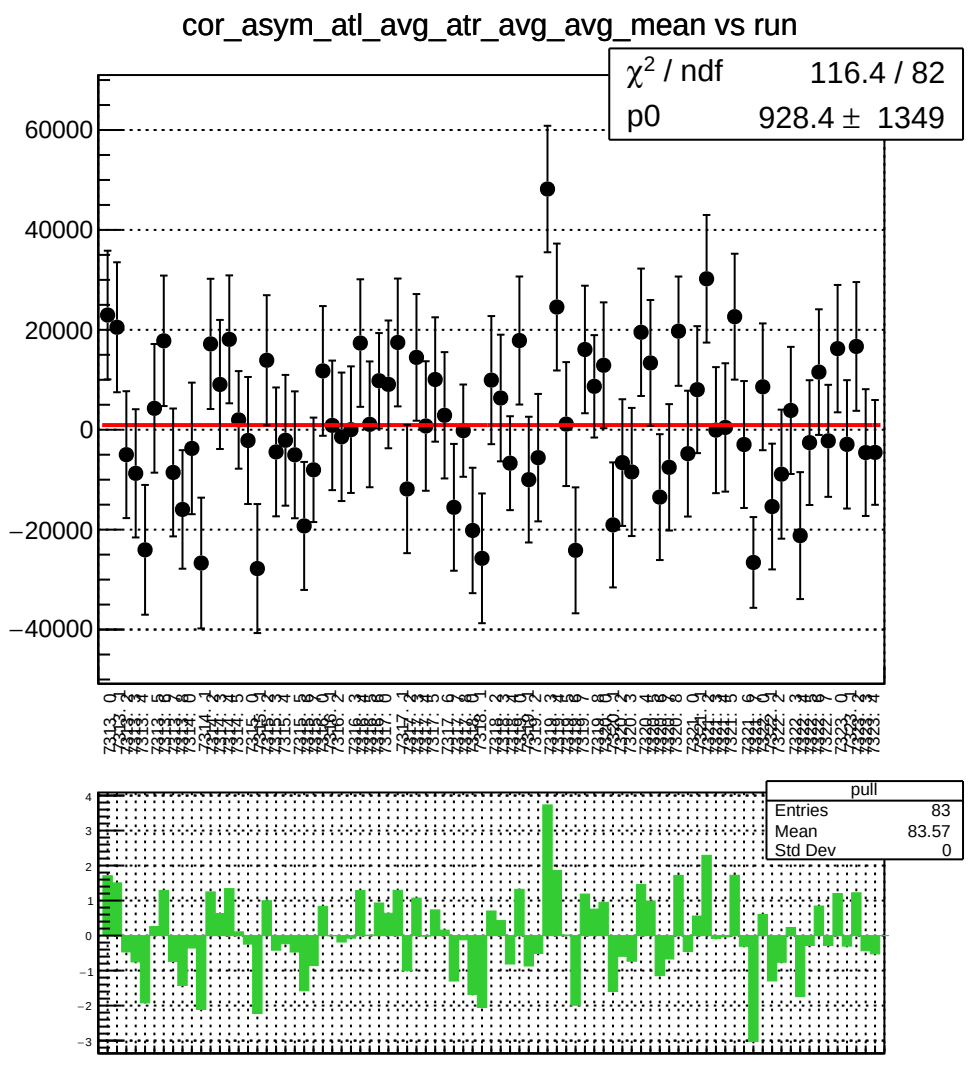

pull1D
Entries 83
Mean 0.01447
Std Dev 1.184
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

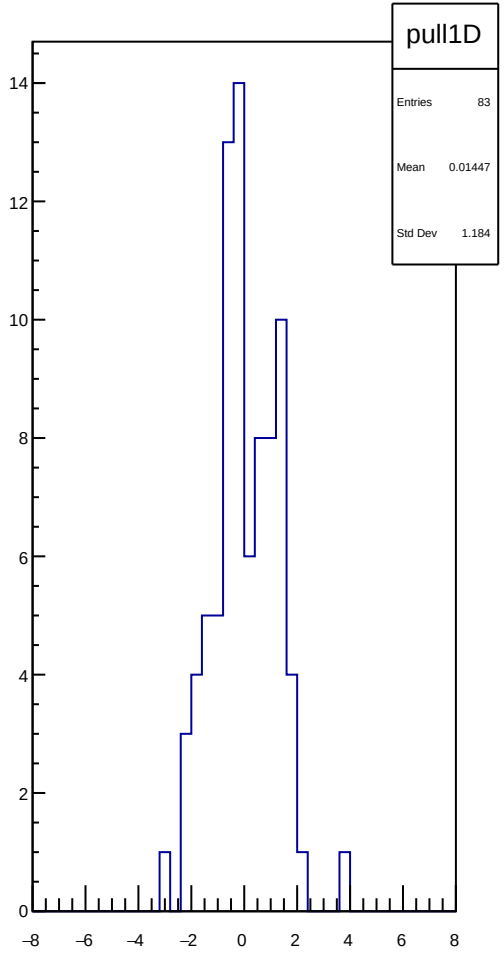

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 233.5 / 82
p0 1211 ± 0.9537
1260
1240
1220
1200
1180
1160

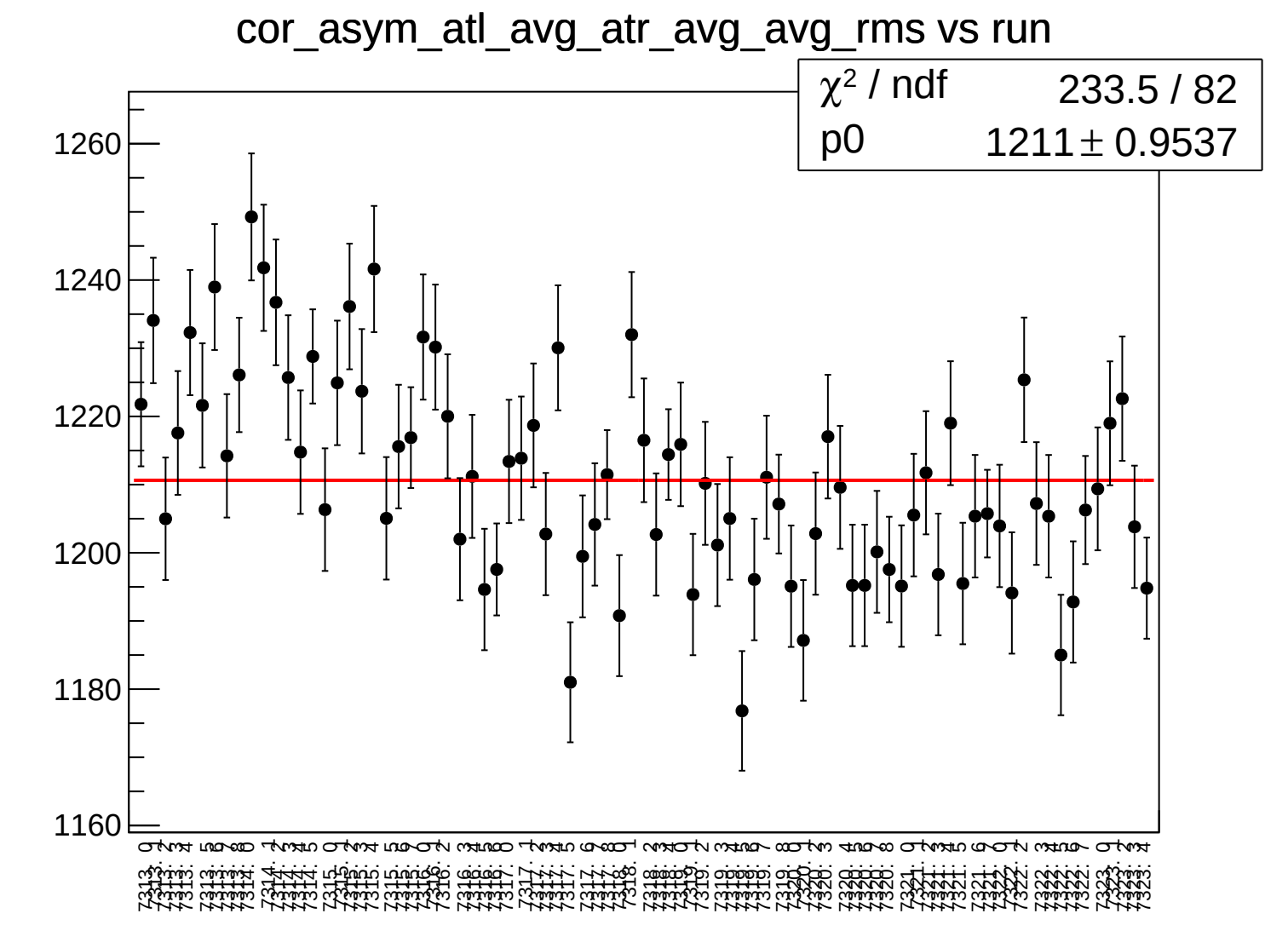

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.13 / 82
p0 8605 ± 7337
pull
Entries 83
Mean 1107
Std Dev 0

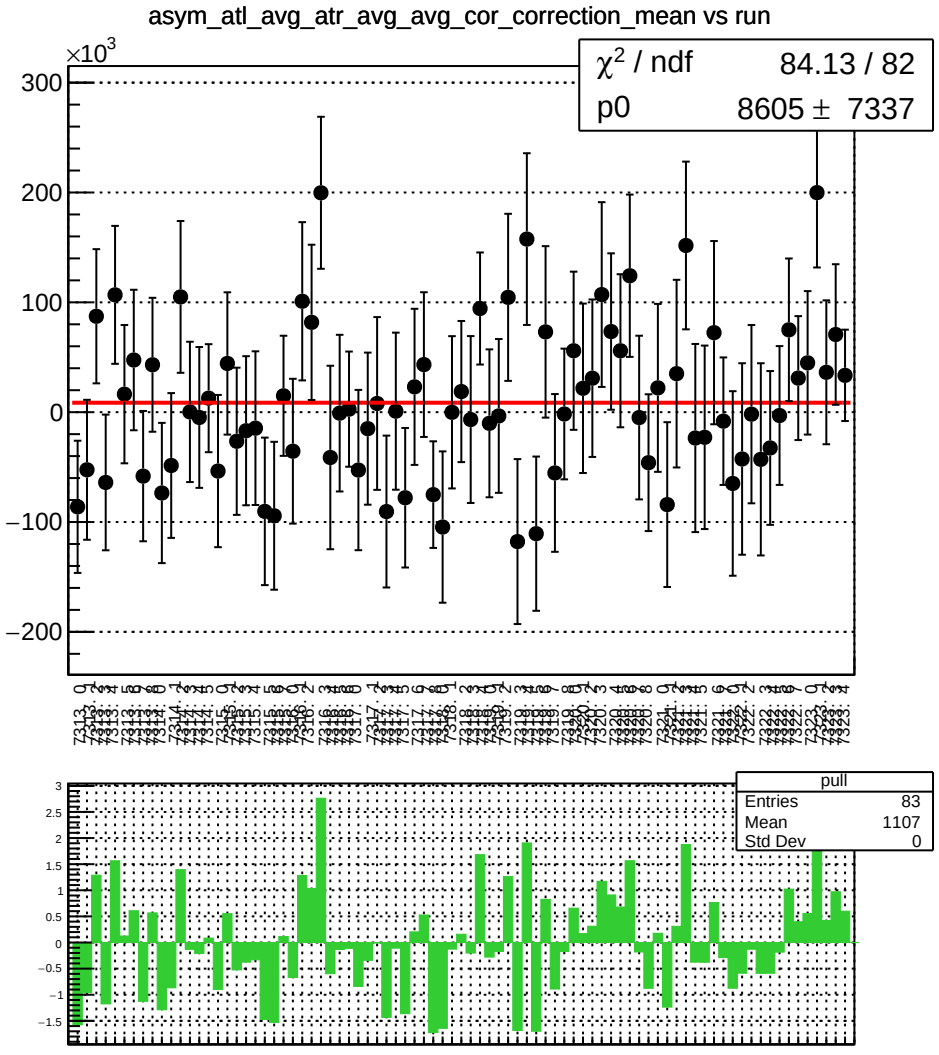

pull1D
Entries 83
Mean 0.004455
Std Dev 1.007

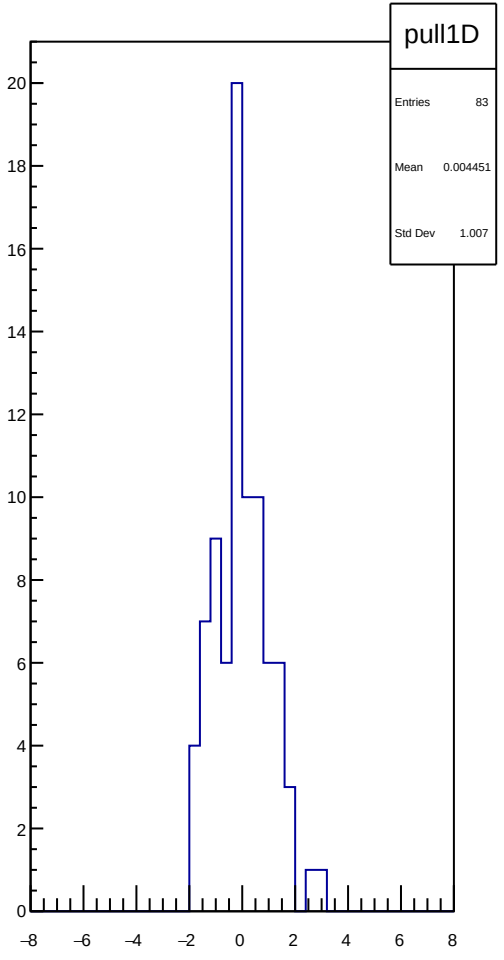

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.673e+04 / 82
p0 6551 ± 5.188
8500
8000
7500
7000
6500
6000
5500
5000
4500

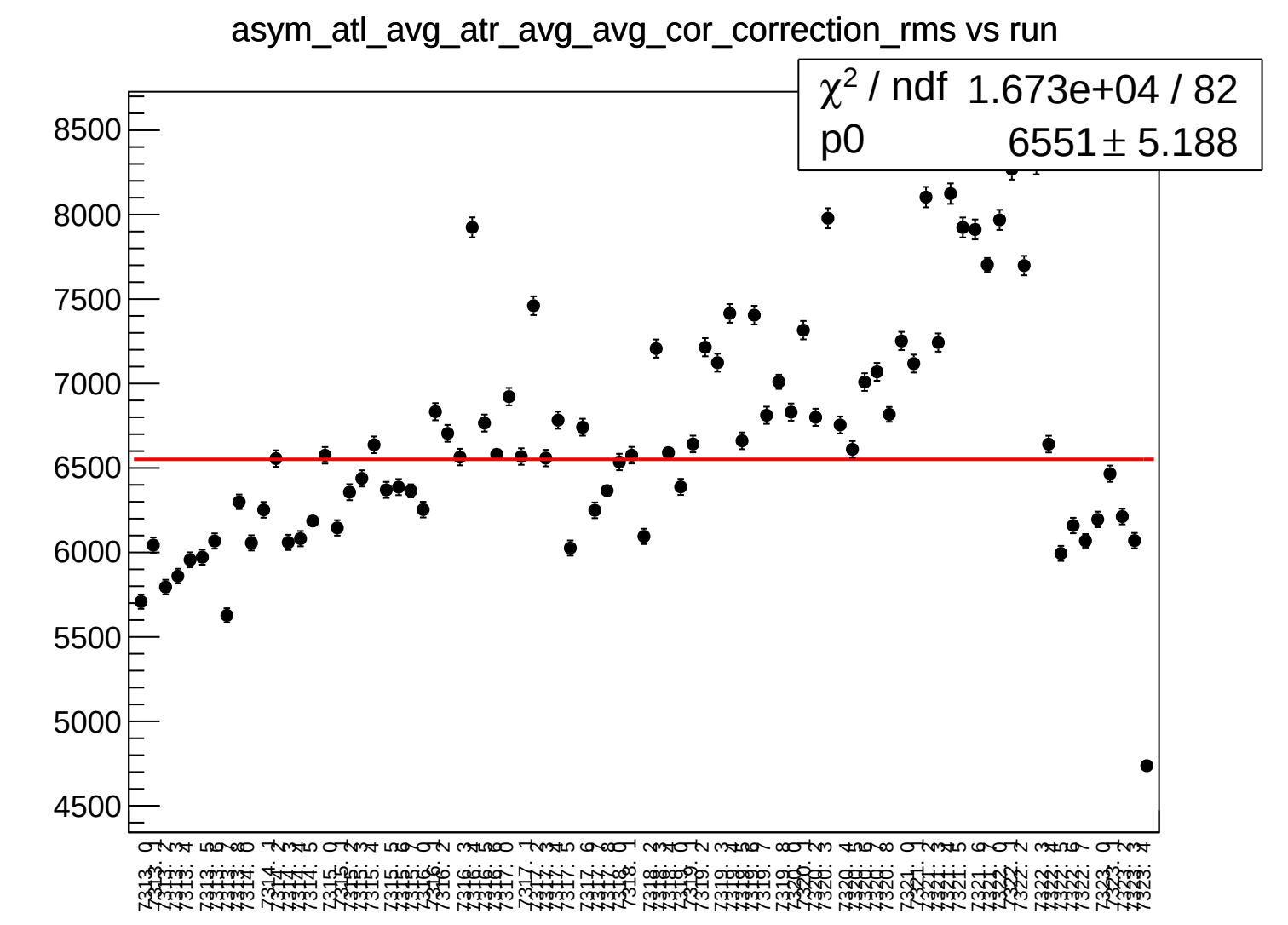

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 116.4 / 82
p0 928.4 ± 1349
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 83.57
Std Dev 0
4
3
2
1
0
−1
−2
−3

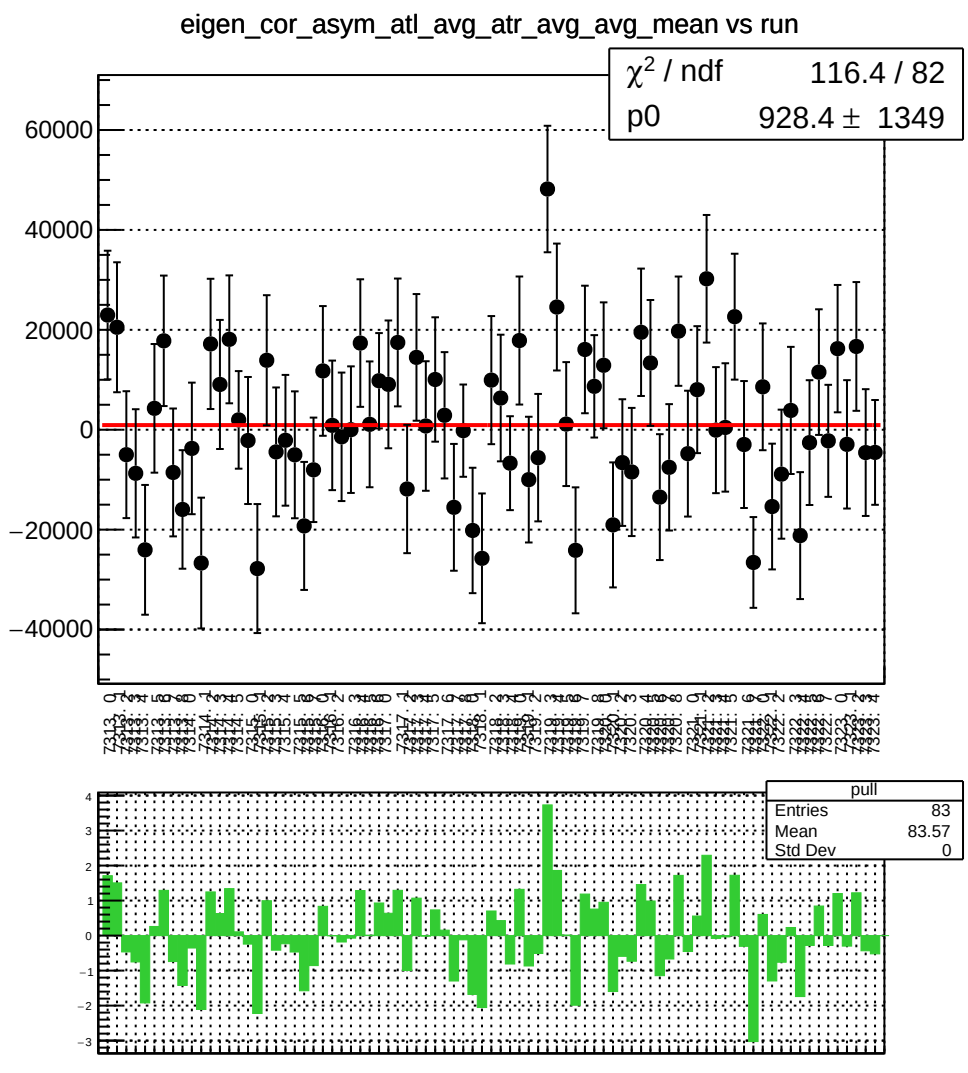

pull1D
Entries 83
Mean 0.01447
Std Dev 1.184
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

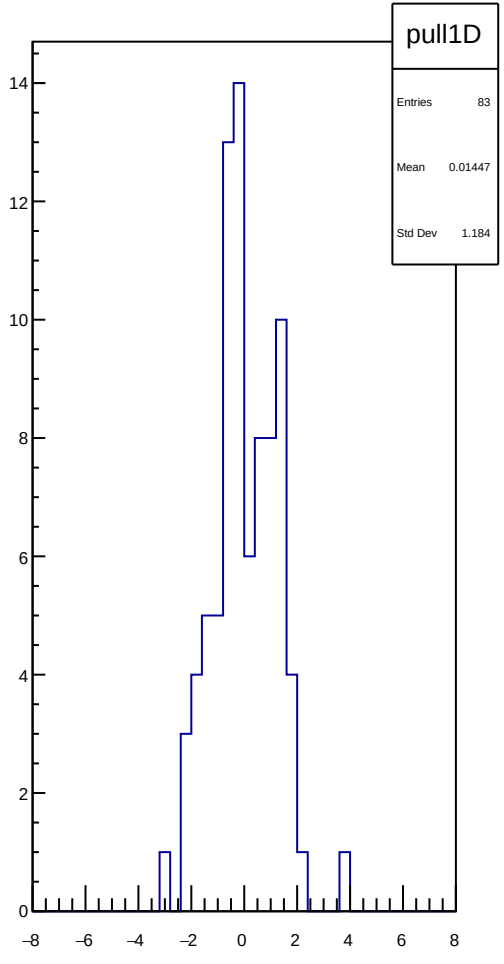

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 233.5 / 82
p0 1211 ± 0.9537
1260
1240
1220
1200
1180
1160

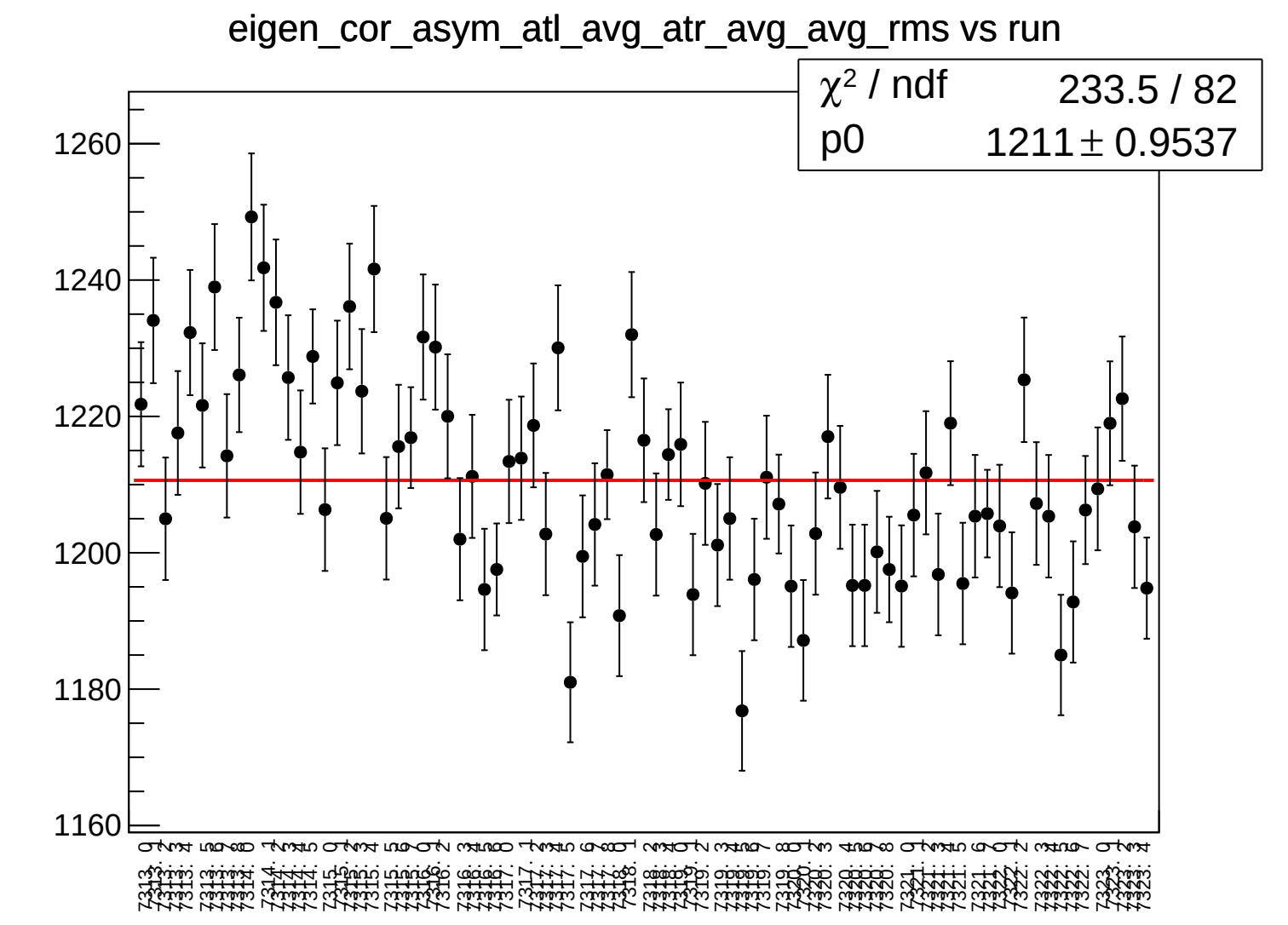

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.13 / 82
p0 8605 ± 7337
pull
Entries 83
Mean 1107
Std Dev 0

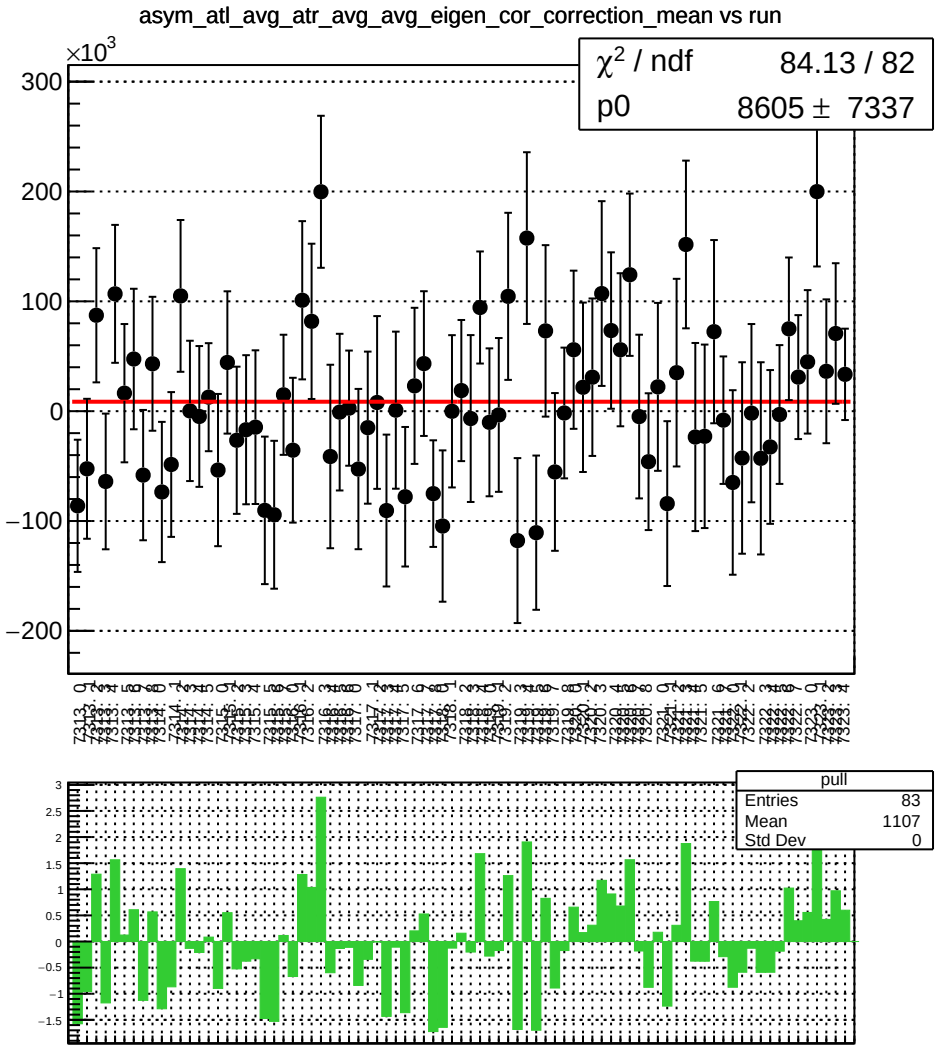

pull1D
Entries 83
Mean 0.004451
Std Dev 1.007

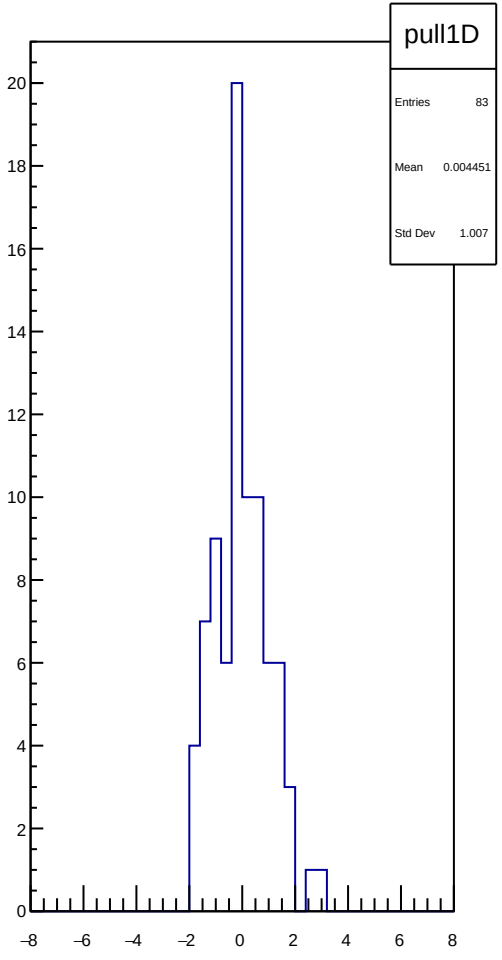

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.673e+04 / 82
p0 6551 ± 5.188
8500
8000
7500
7000
6500
6000
5500
5000
4500

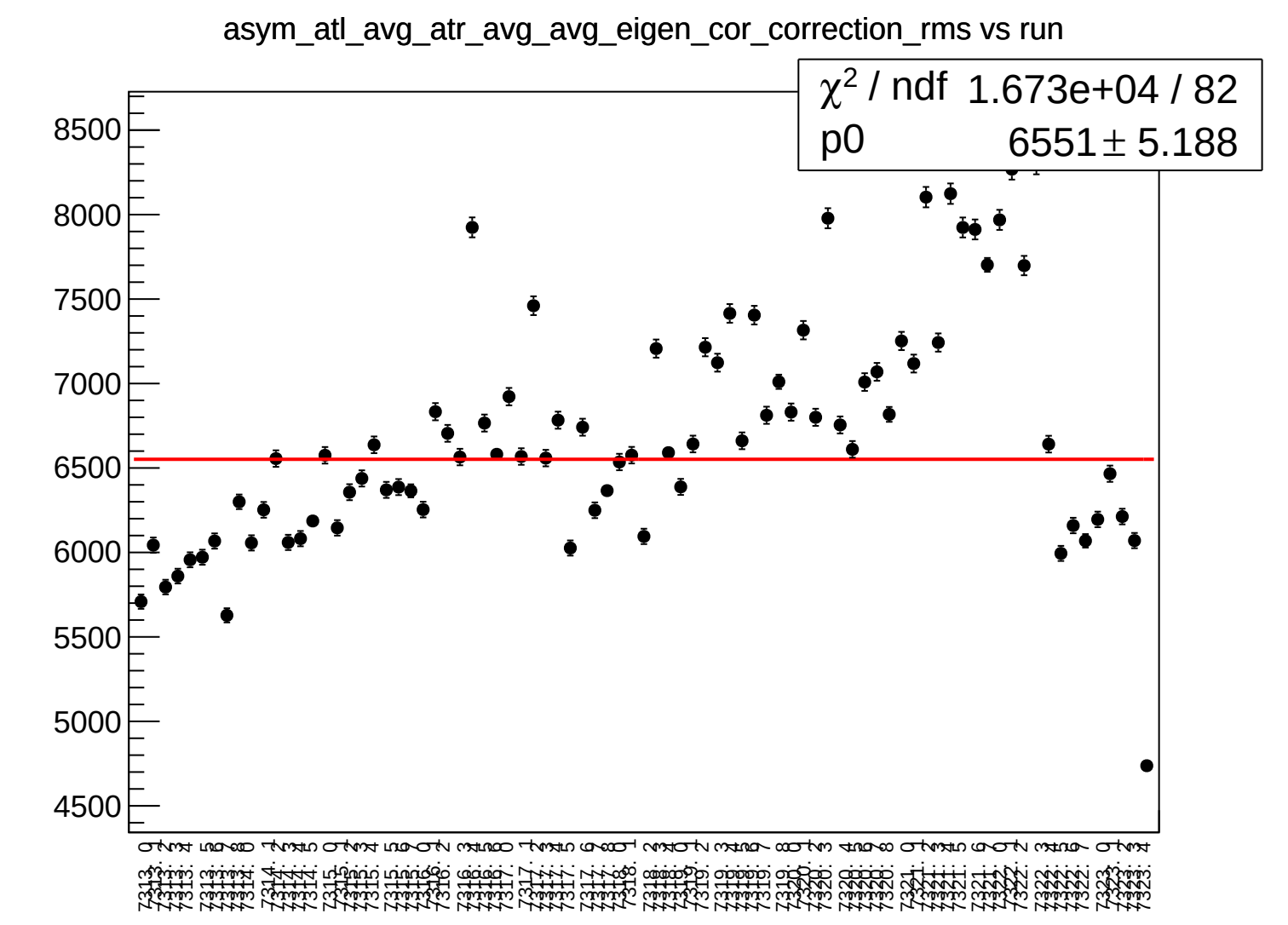

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 116.4 / 82
p0 928.4 ± 1349
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 83.57
Std Dev 0
4
3
2
1
0
−1
−2
−3

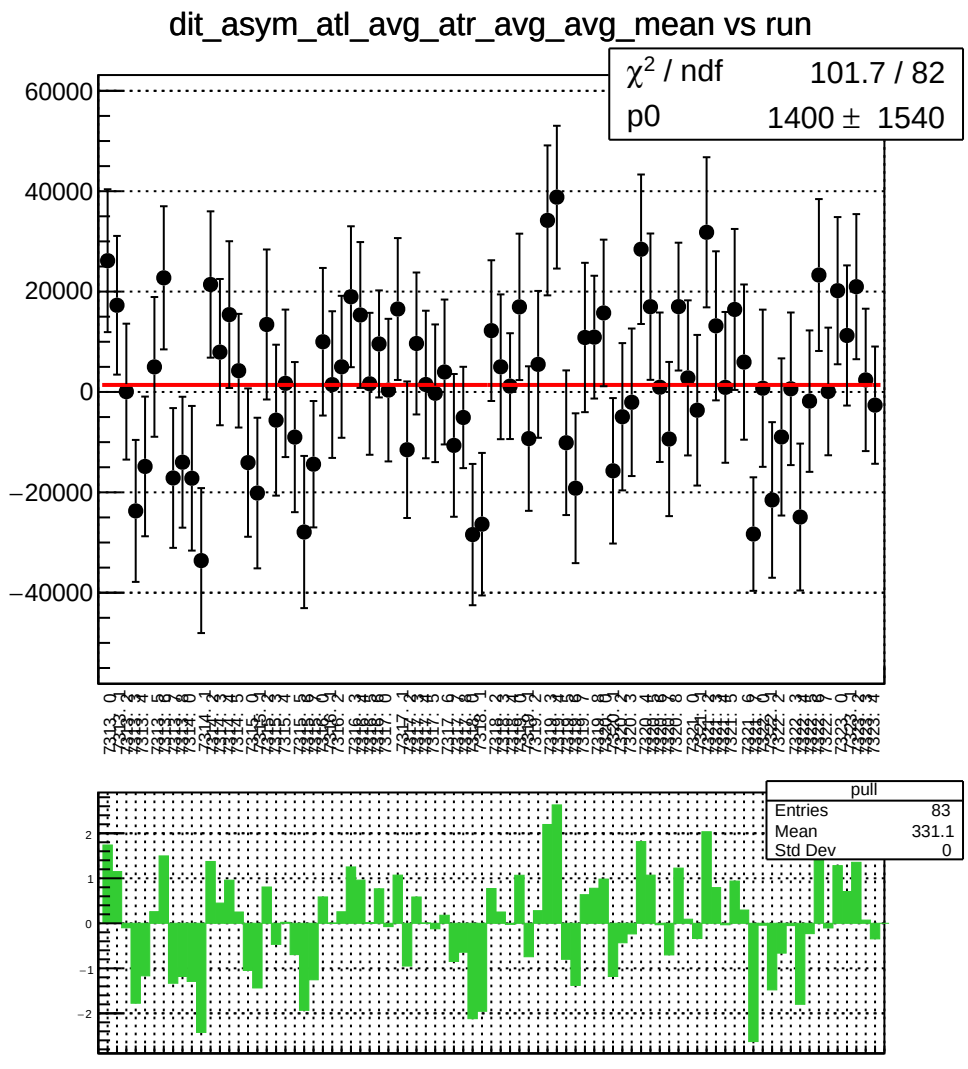

pull1D
Entries 83
Mean 0.01447
Std Dev 1.184
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

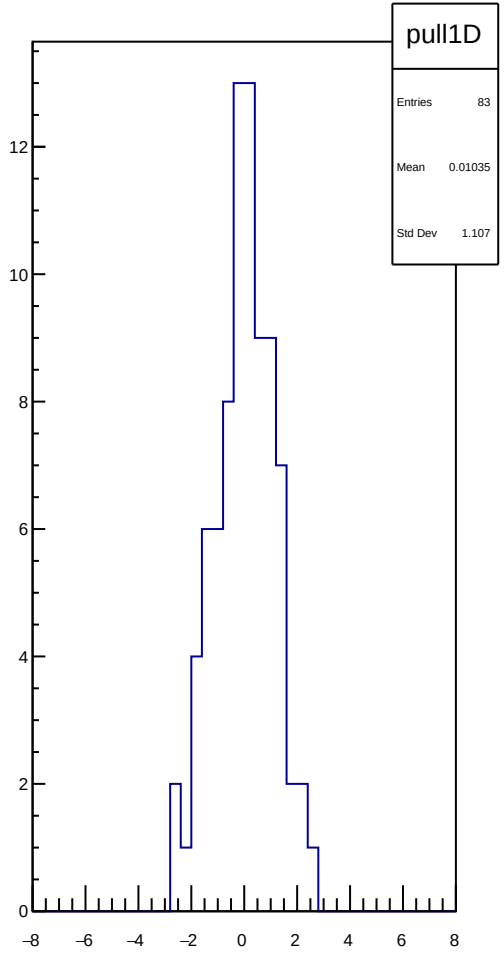

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 233.5 / 82
p0 1211 ± 0.9537
1260
1240
1220
1200
1180
1160

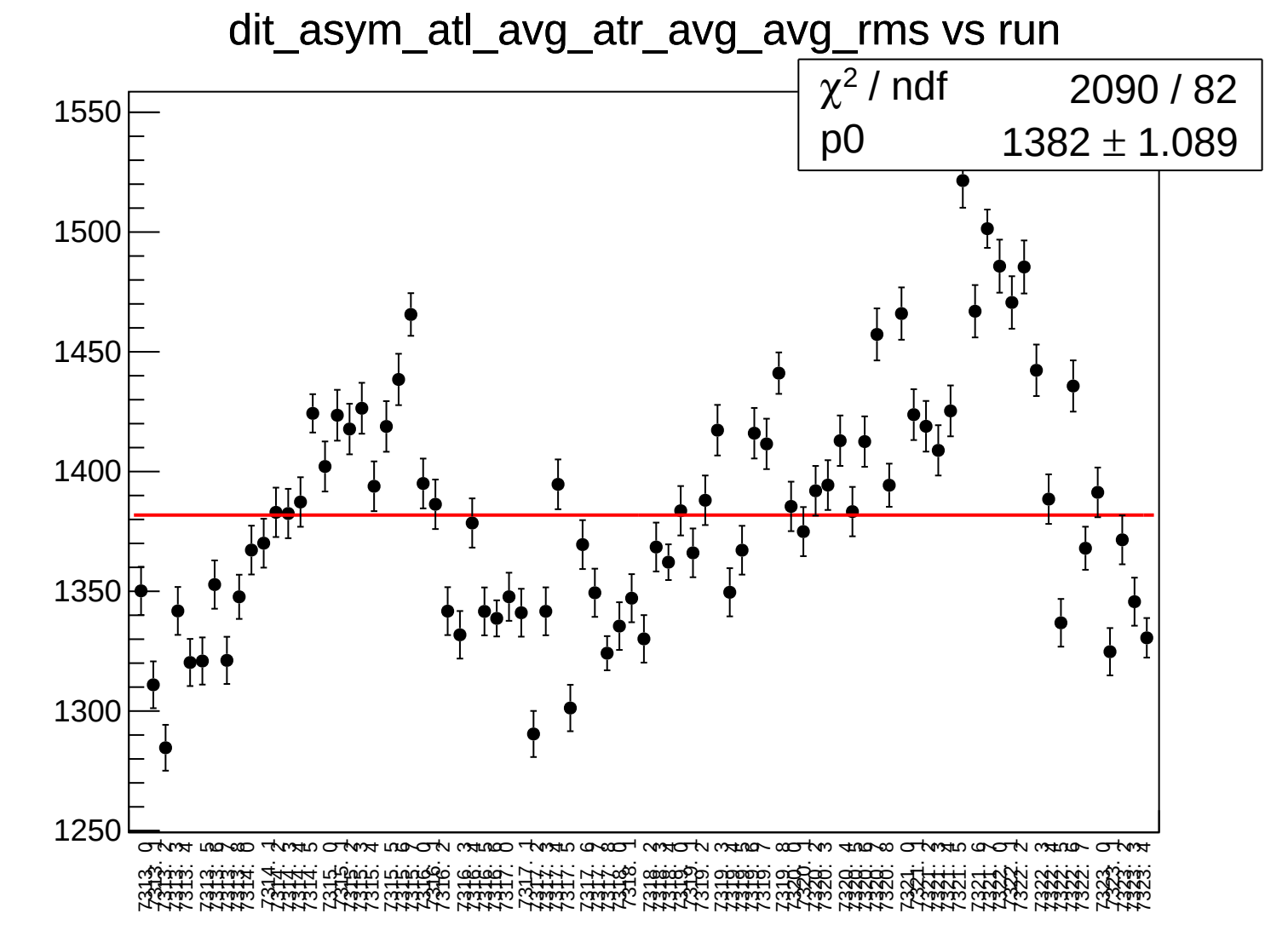

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.13 / 82
p0 8605 ± 7337
pull
Entries 83
Mean 1107
Std Dev 0

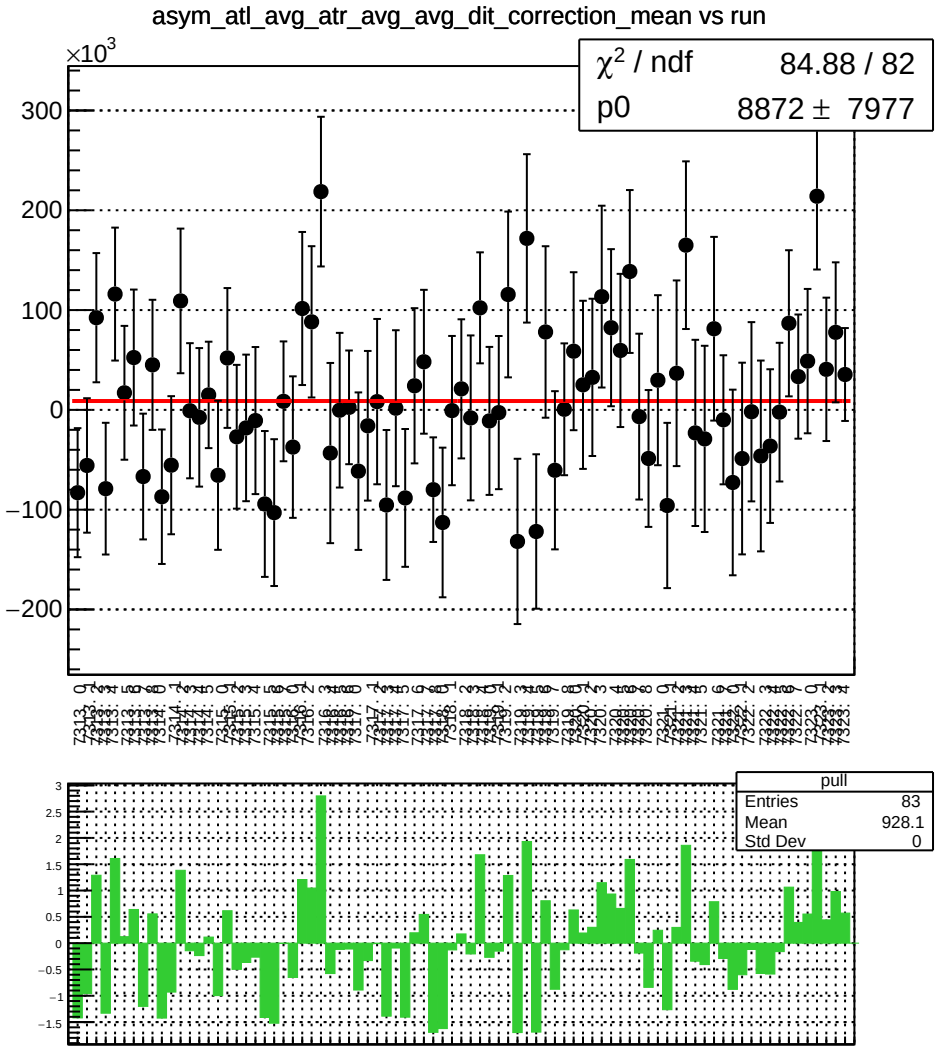

pull1D
Entries 83
Mean 0.004451
Std Dev 1.007

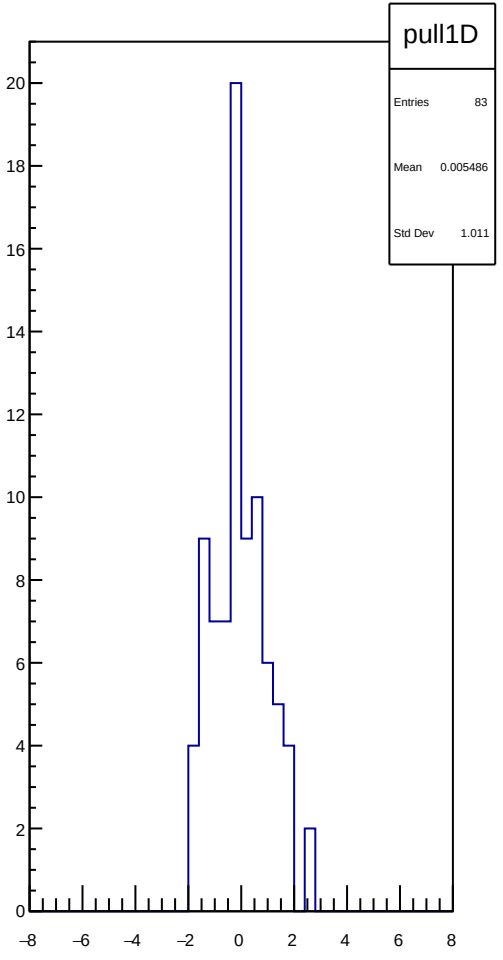

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.673e+04 / 82
p0 6551 ± 5.188
8500
8000
7500
7000
6500
6000
5500
5000
4500

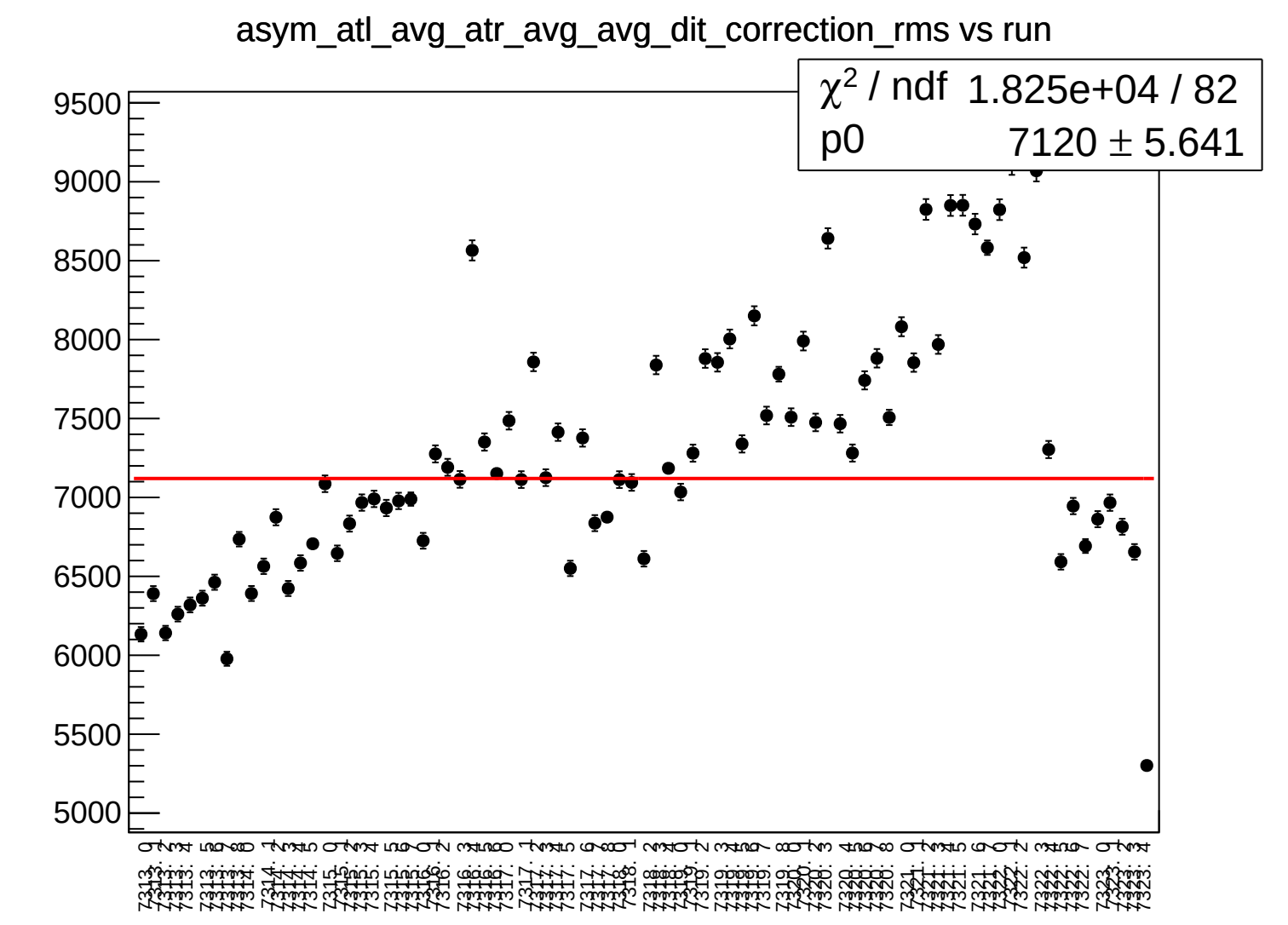

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 101.7 / 82
p0 1400 ± 1540
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 331.1
Std Dev 0
2
1
0
−1
−2

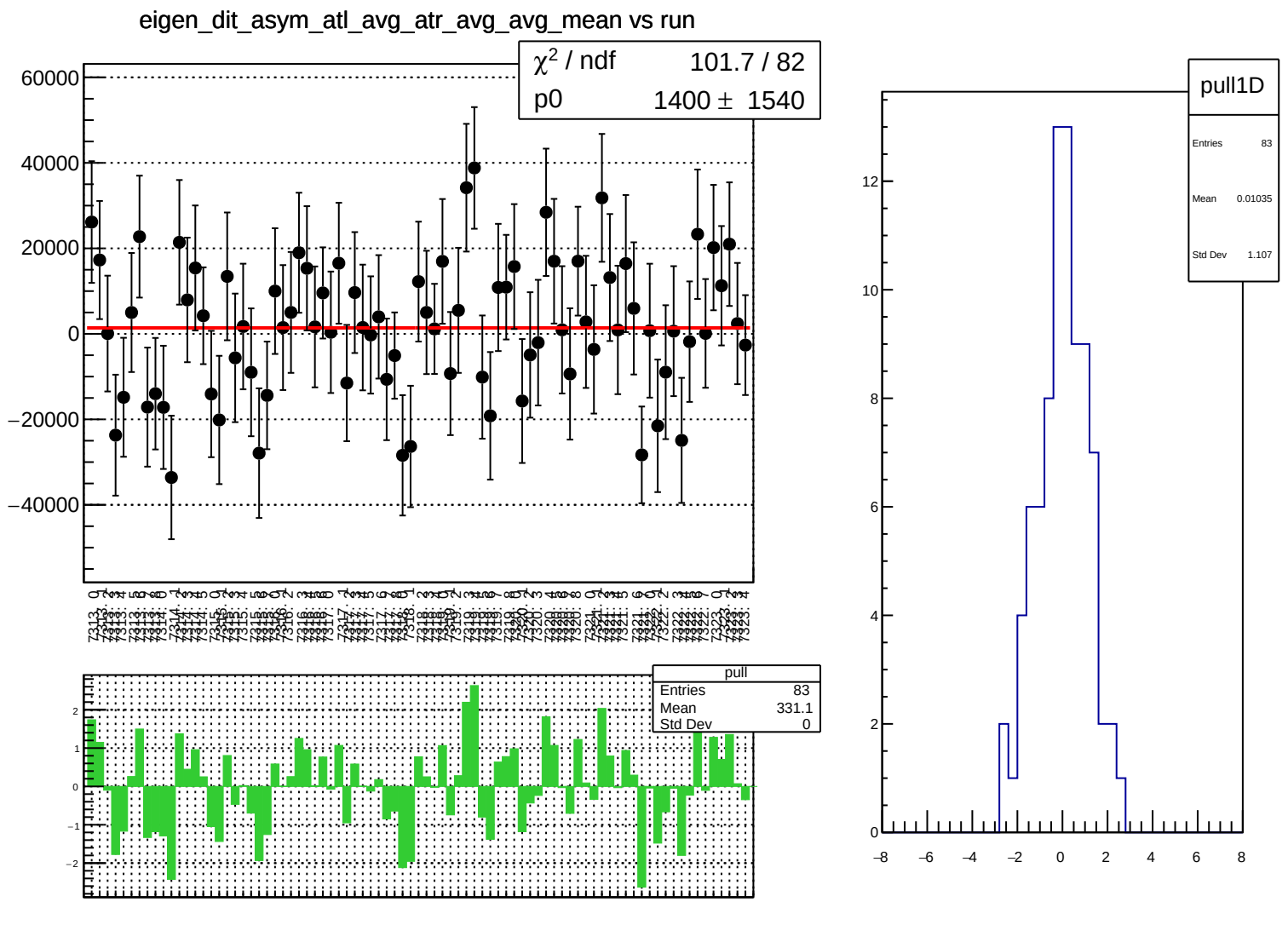

pull1D
Entries 83
Mean 0.01035
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

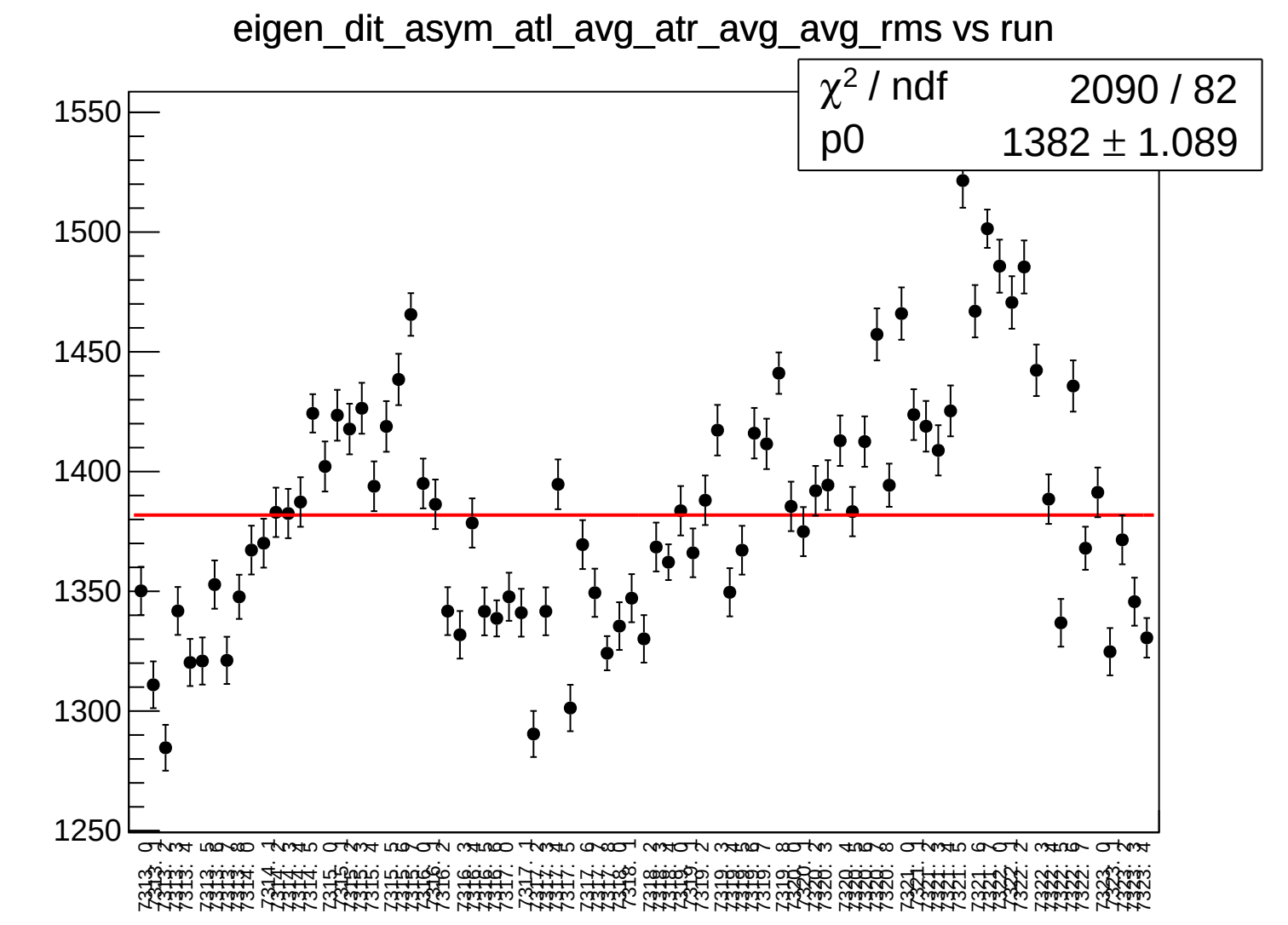

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2090 / 82
p0 1382 ± 1.089
1550
1500
1450
1400
1350
1300
1250

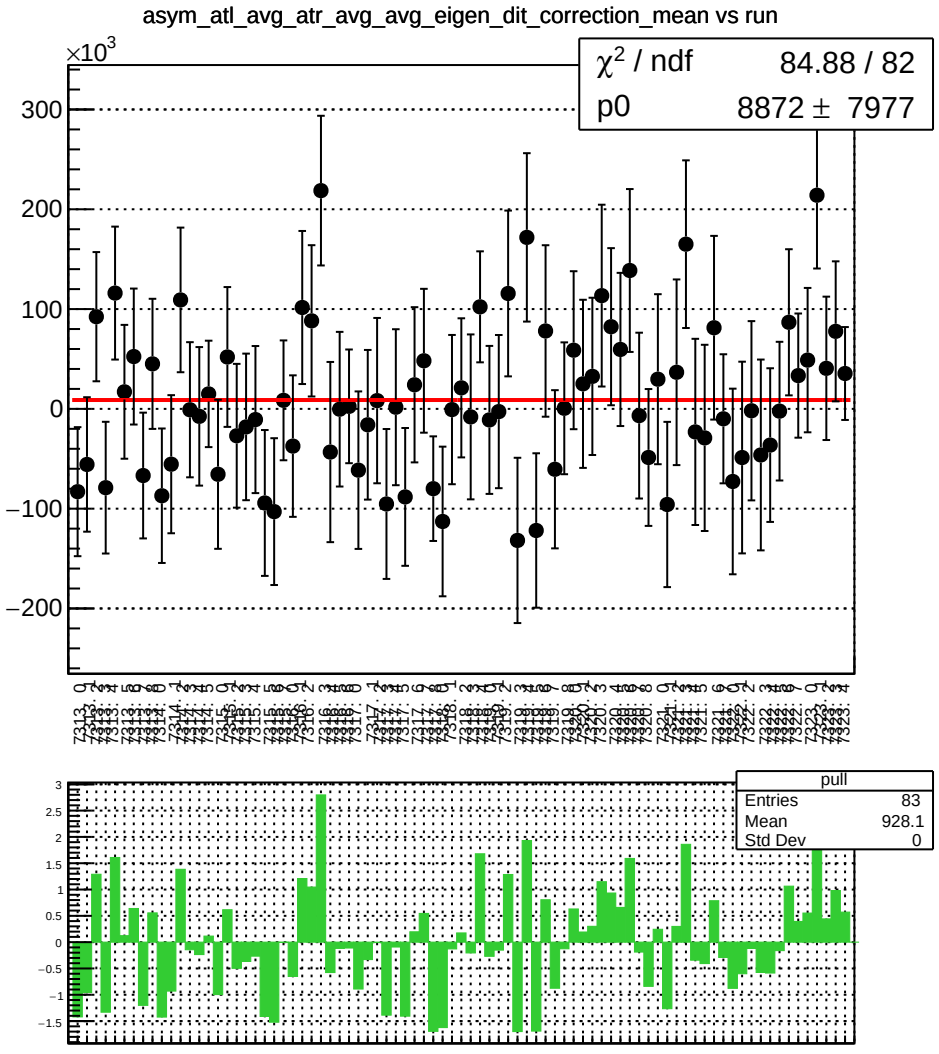

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.88 / 82
p0 8872 ± 7977
pull
Entries 83
Mean 928.1
Std Dev 0

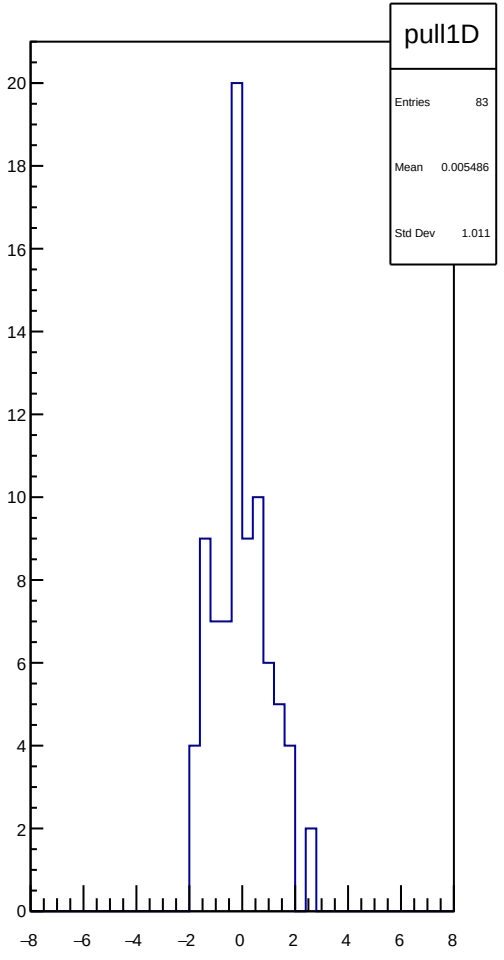

pull1D
Entries 83
Mean 0.005486
Std Dev 1.011

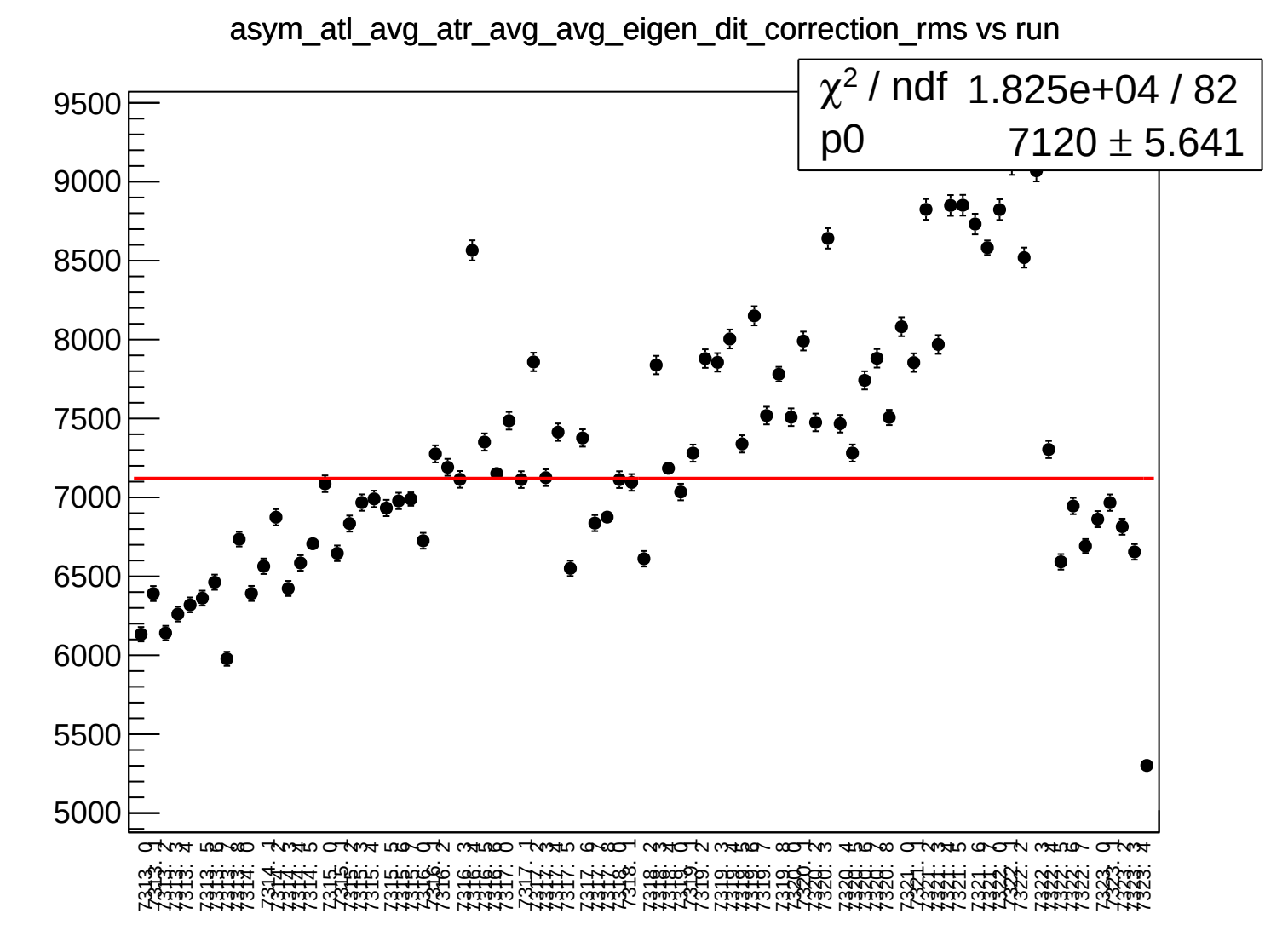

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 7120 ± 5.641
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

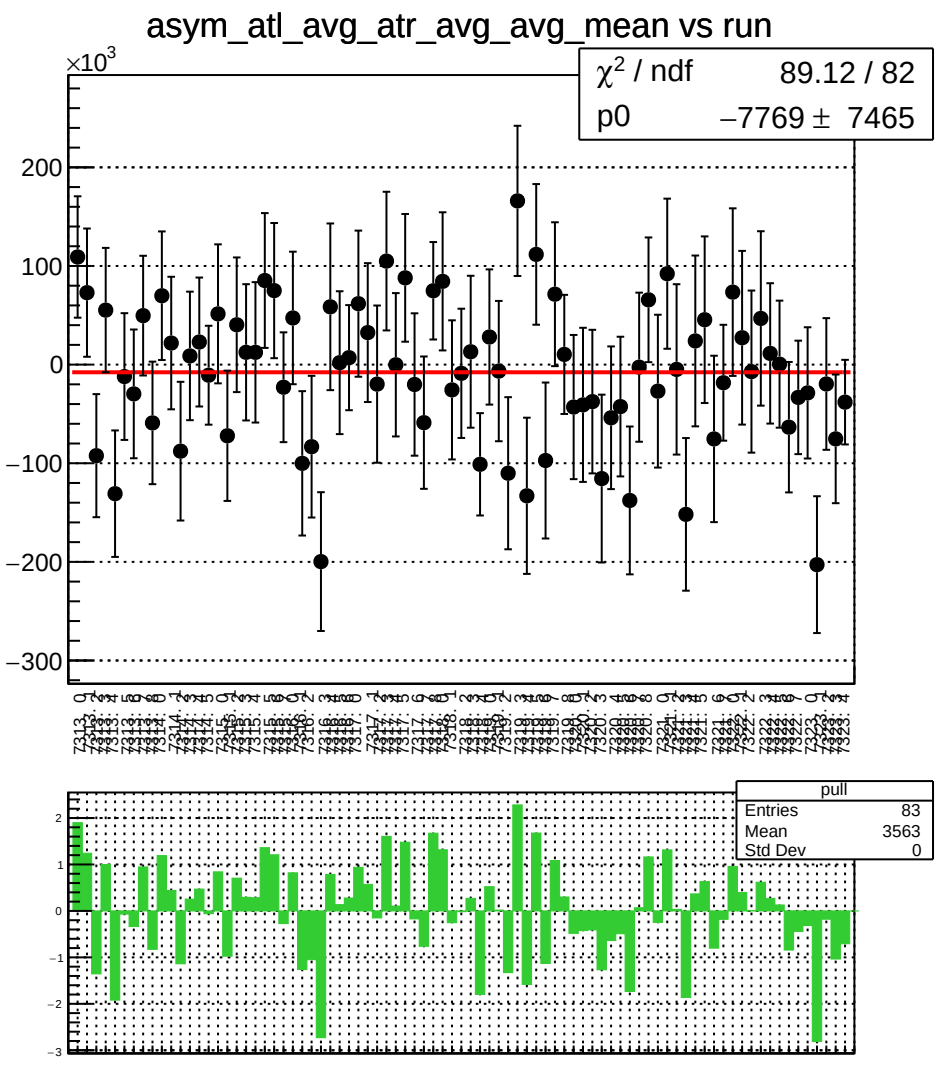

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 101.7 / 82
p0 1400 ± 1540
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 331.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.01035
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

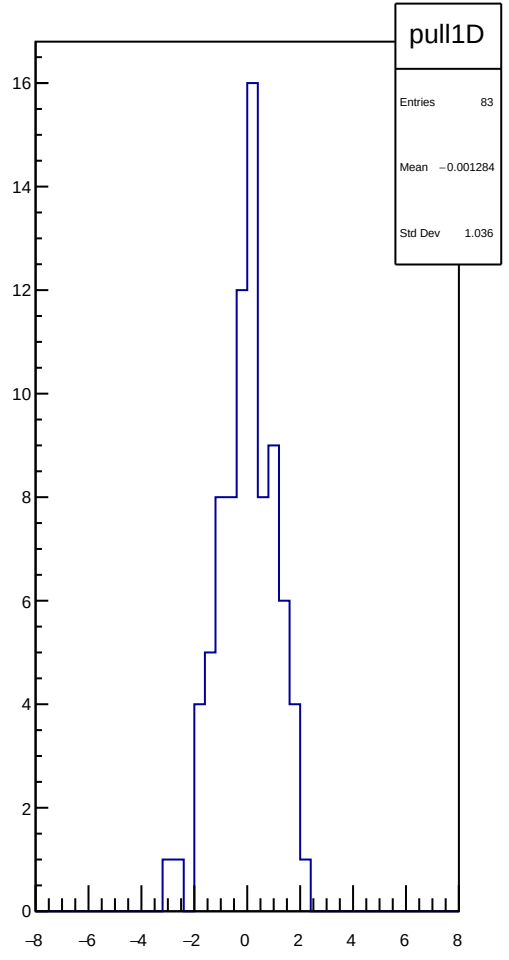

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2090 / 82
p0 1382 ± 1.089
1550
1500
1450
1400
1350
1300
1250

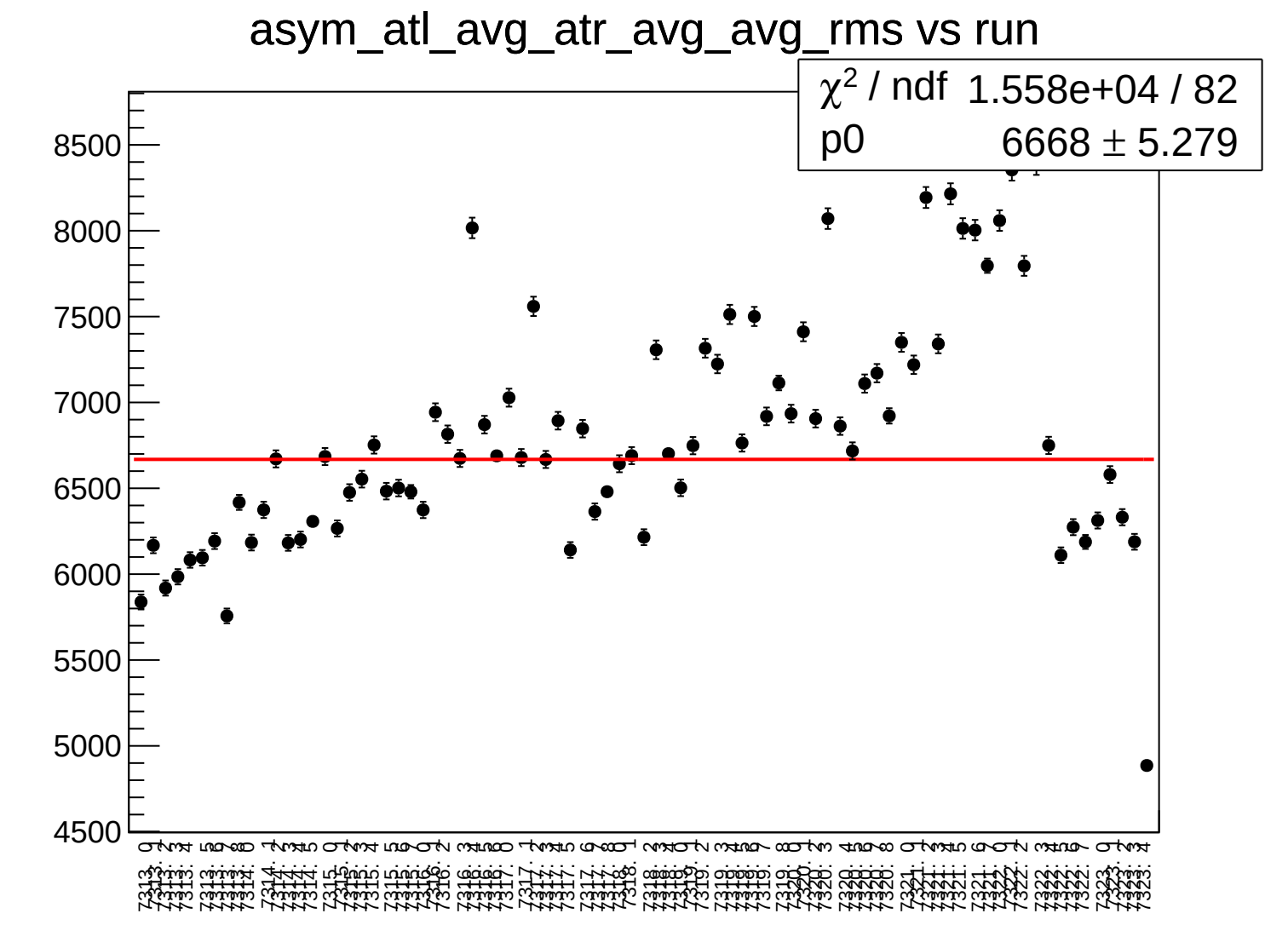

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.88 / 82
p0 8872 ± 7977
pull
Entries 83
Mean 928.1
Std Dev 0

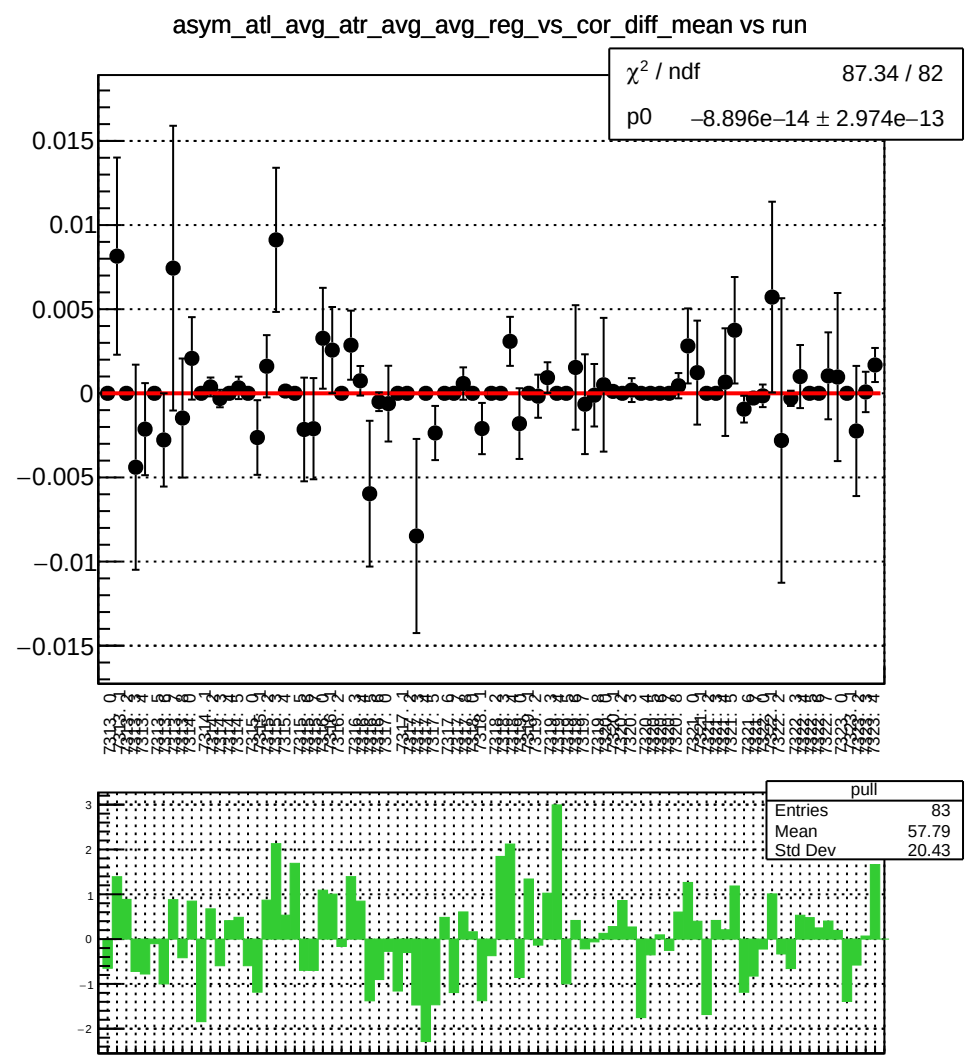

pull1D
Entries 83
Mean 0.005486
Std Dev 1.011

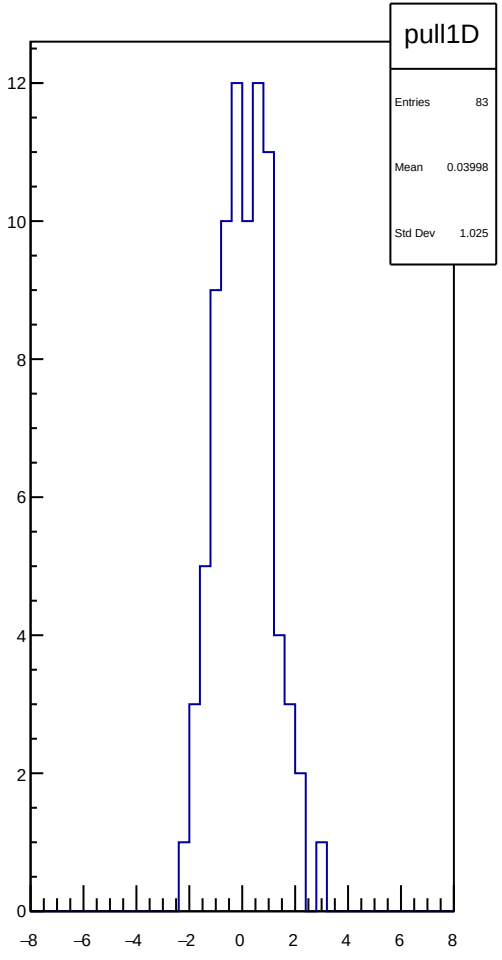

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 7120 ± 5.641
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

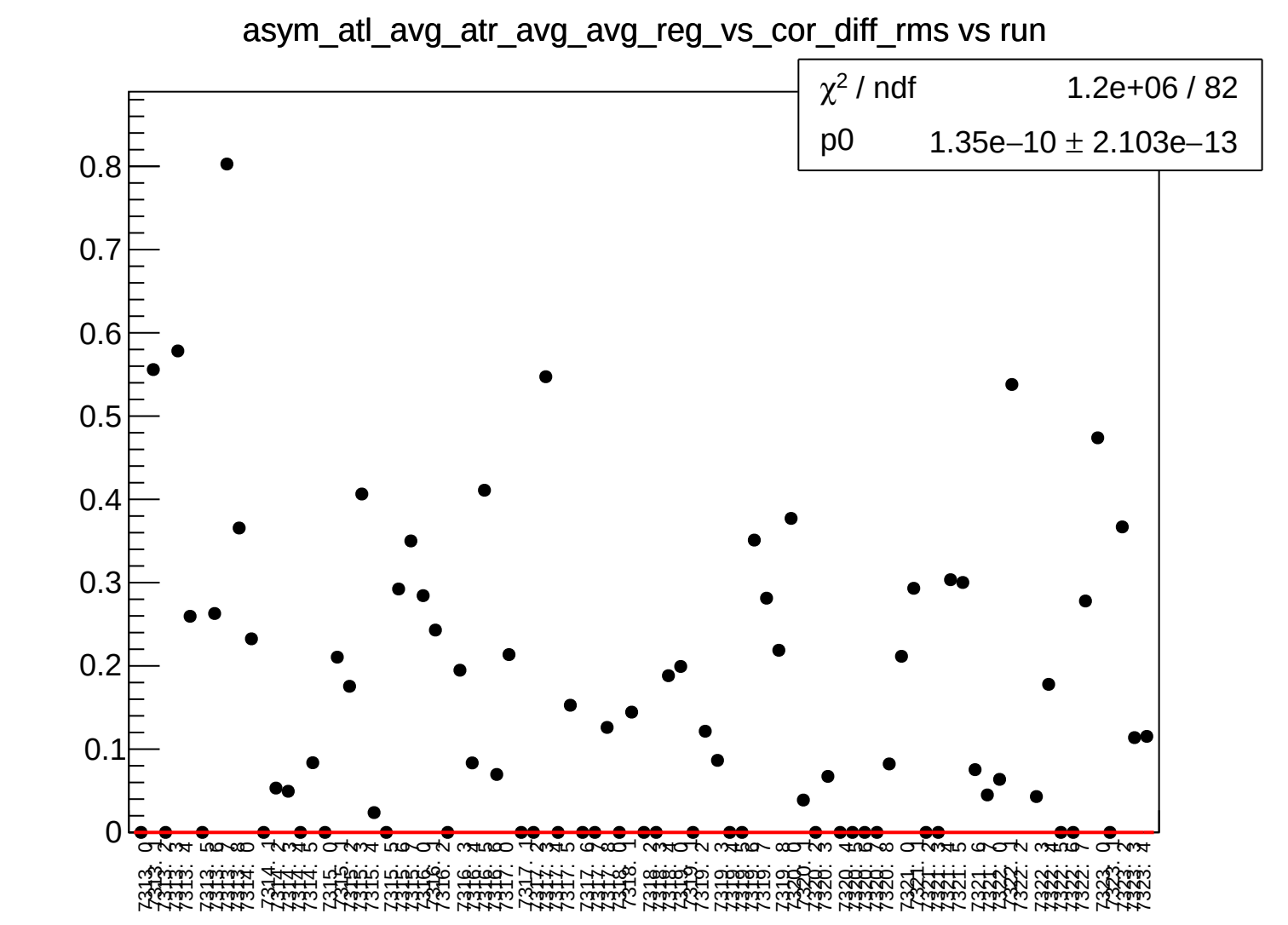

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 89.12 / 82
p0 −7769 ± 7465
200
100
0
−100
−200
−300
pull
Entries 83
Mean 3563
Std Dev 0
2
1
0
−1
−2
−3

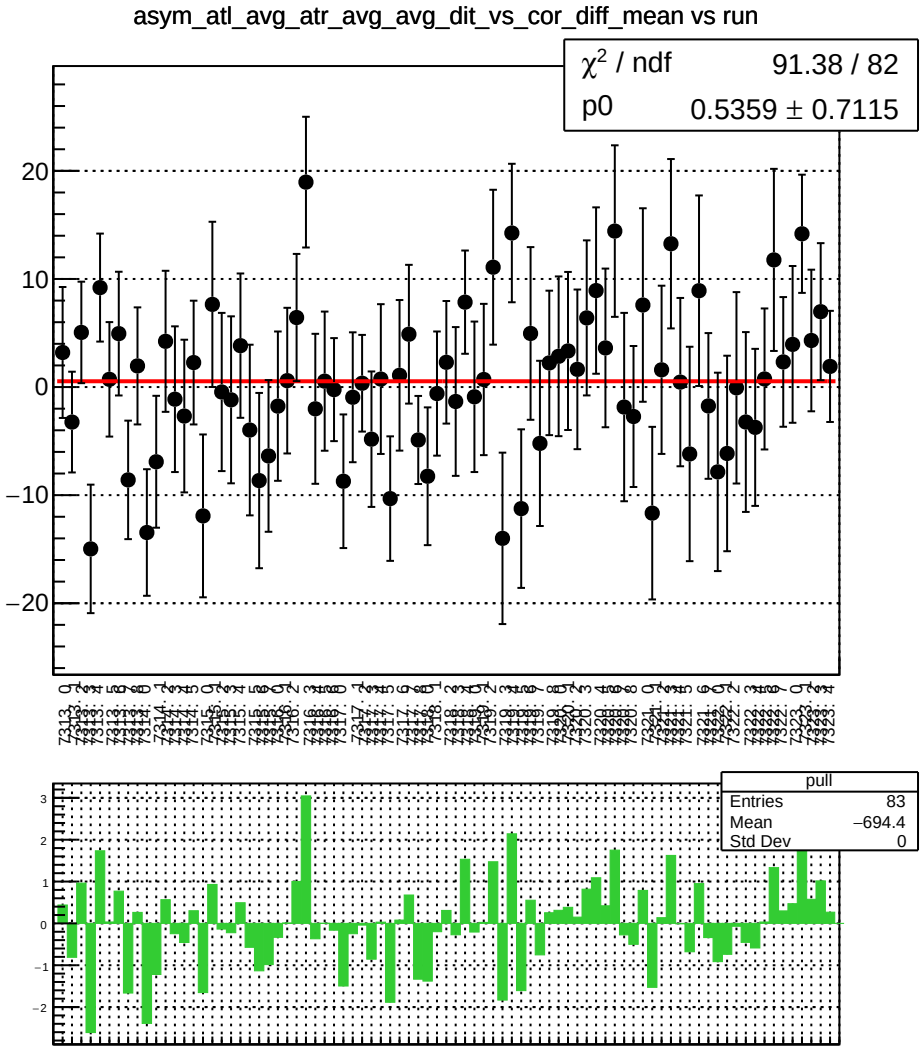

pull1D
Entries 83
Mean −0.001284
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

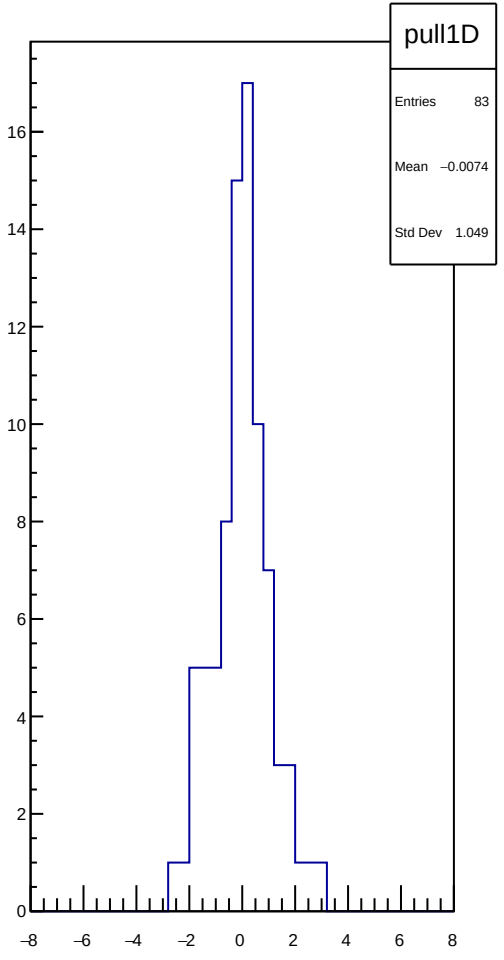

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.558e+04 / 82
p0 6668 ± 5.279
8500
8000
7500
7000
6500
6000
5500
5000
4500

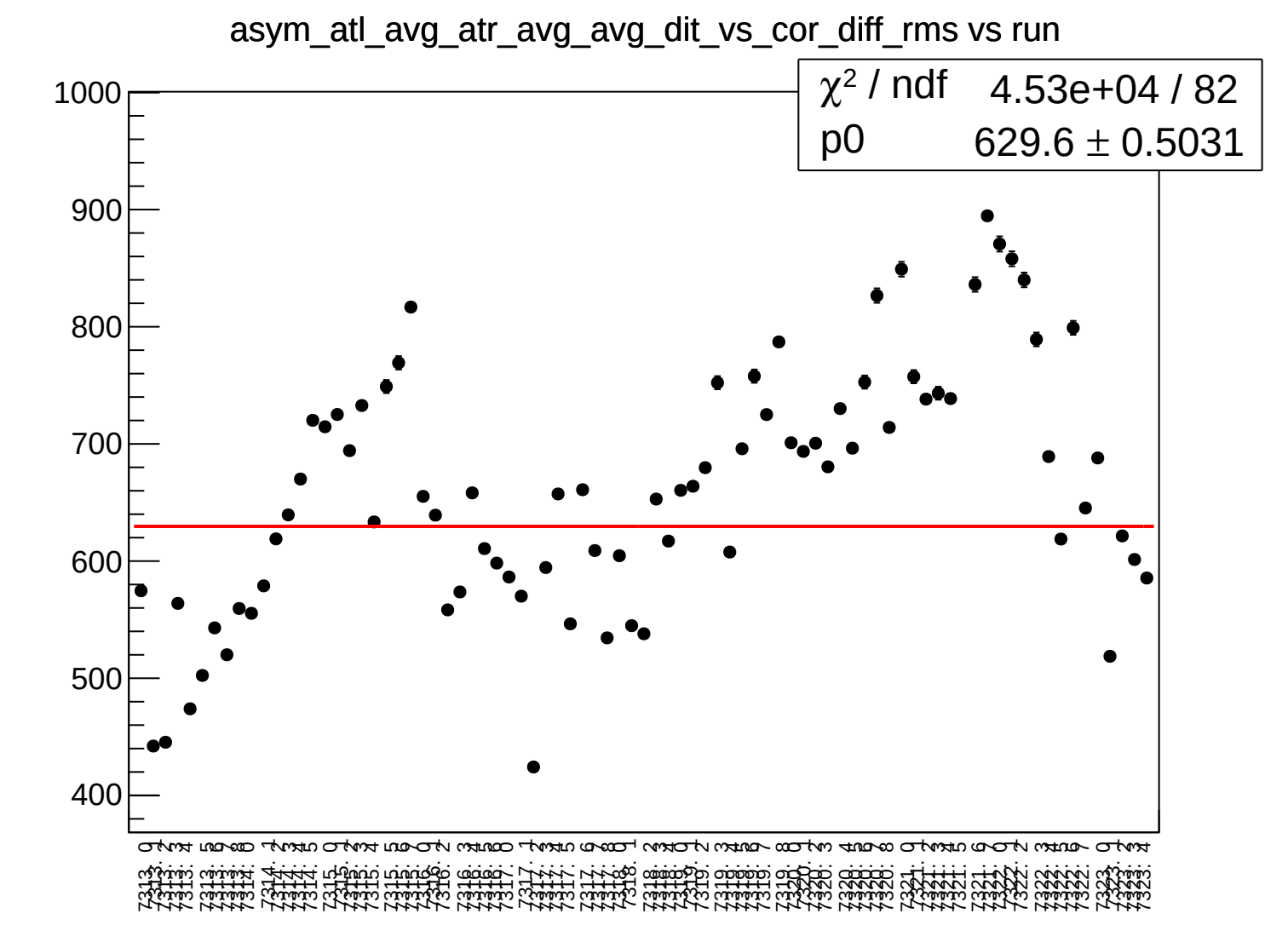

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.34 / 82
p0 −8.896e−14 ± 2.974e−13
pull
Entries 83
Mean 57.79
Std Dev 20.43

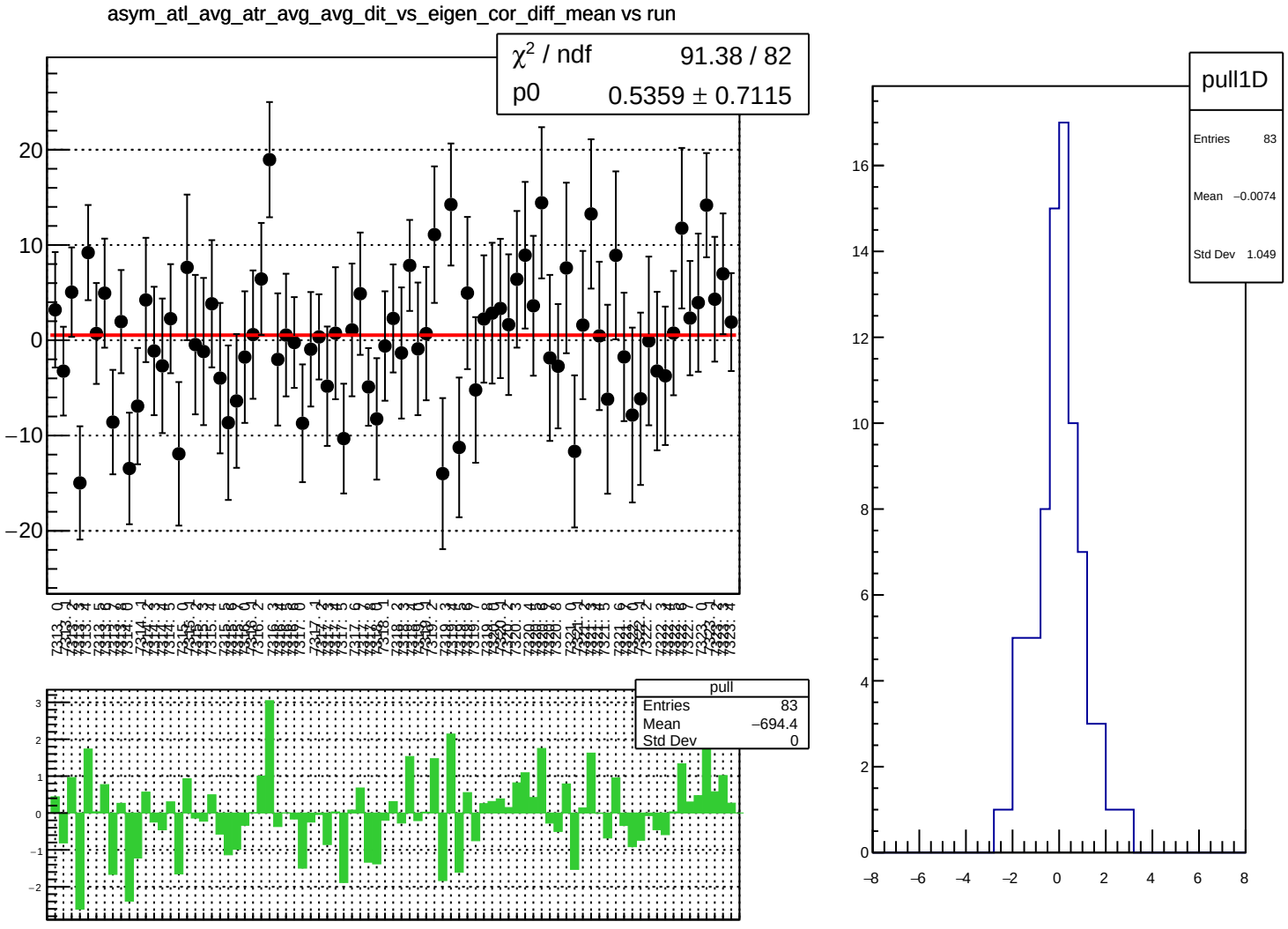

pull1D
Entries 83
Mean 0.03998
Std Dev 1.025

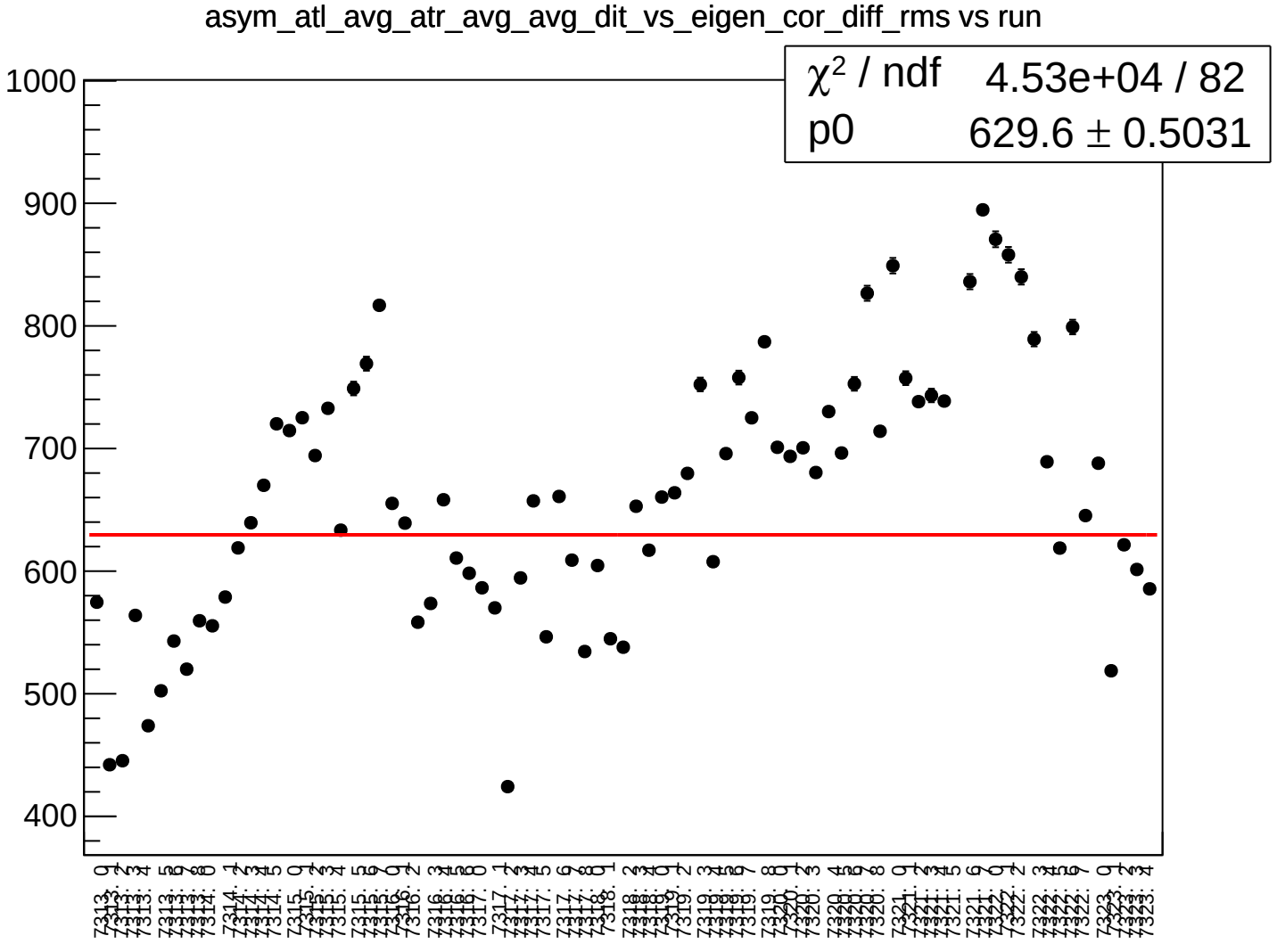

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.2e+06 / 82
p0 1.35e−10 ± 2.103e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

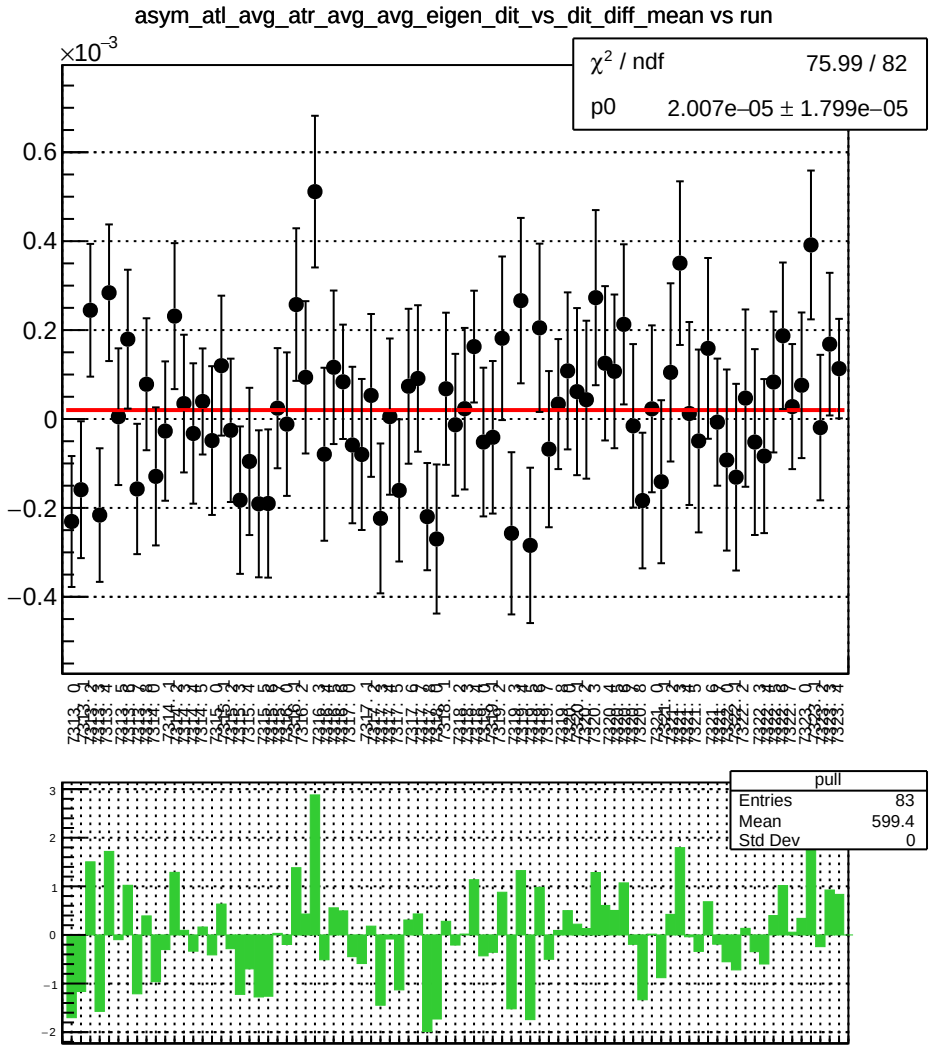

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.38 / 82
p0 0.5359 ± 0.7115
pull
Entries 83
Mean −694.4
Std Dev 0

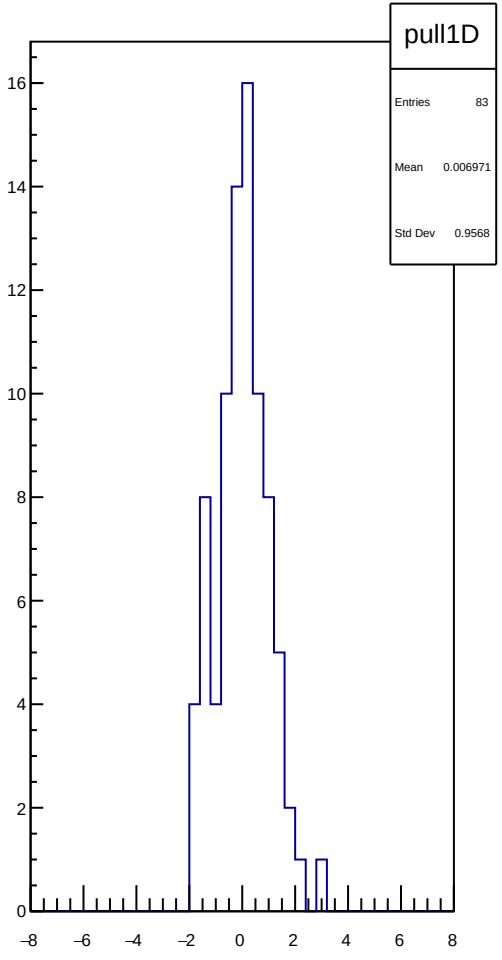

pull1D
Entries 83
Mean −0.0074
Std Dev 1.049

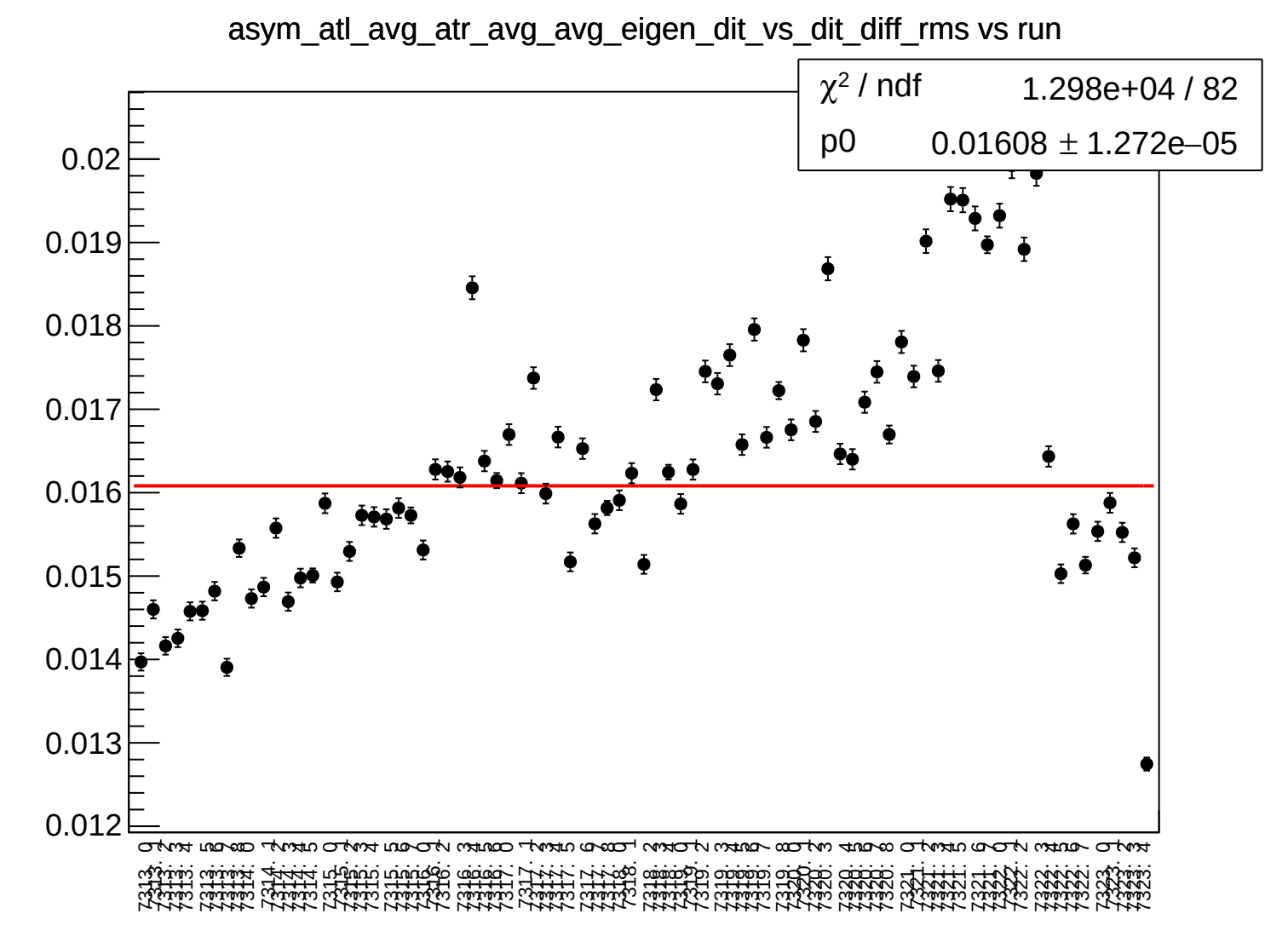

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.53e+04 / 82
p0 629.6 ± 0.5031
1000
900
800
700
600
500
400

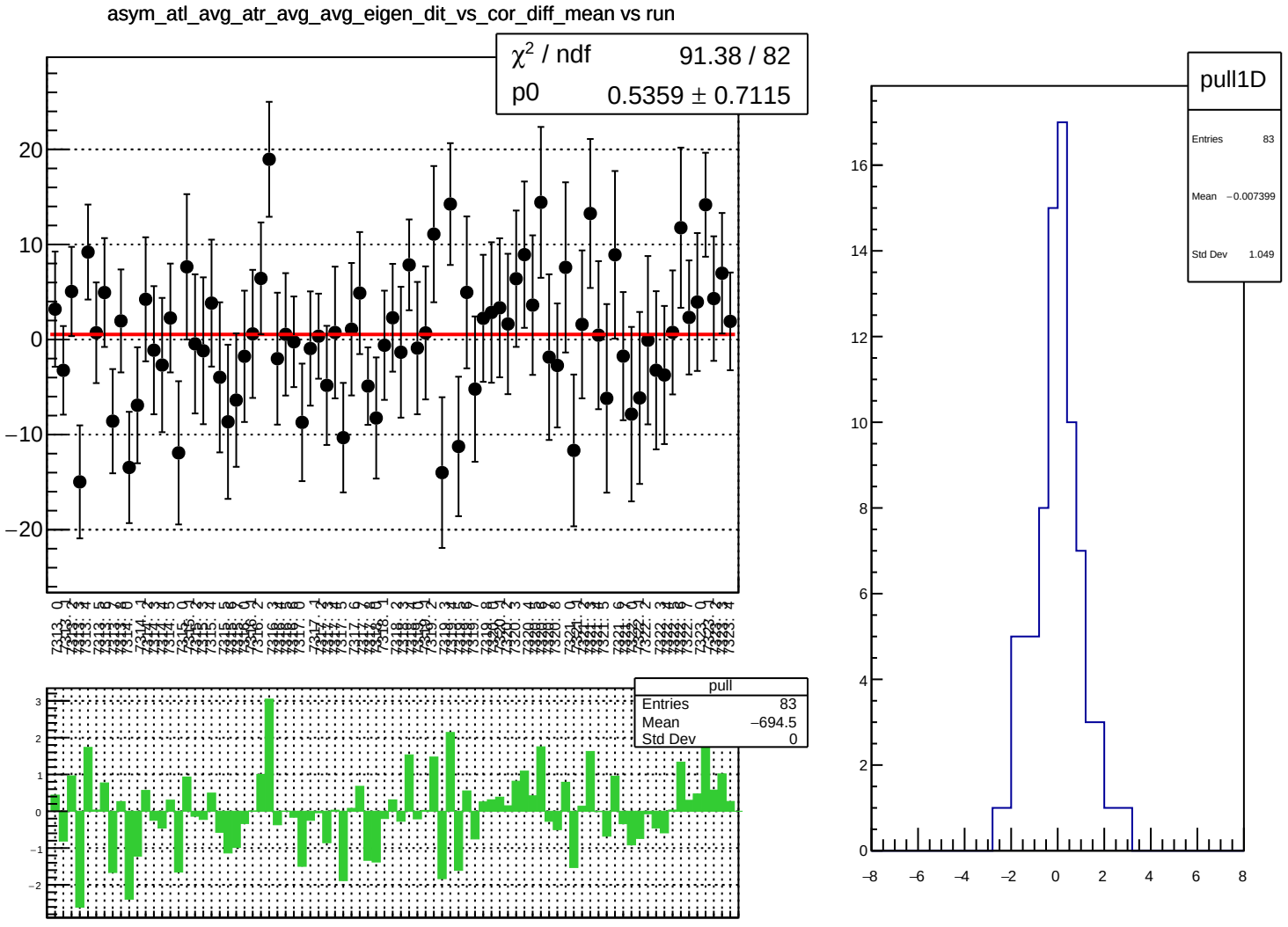

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.38 / 82
p0 0.5359 ± 0.7115
pull
Entries 83
Mean −694.4
Std Dev 0
pull1D
Entries 83
Mean −0.0074
Std Dev 1.049

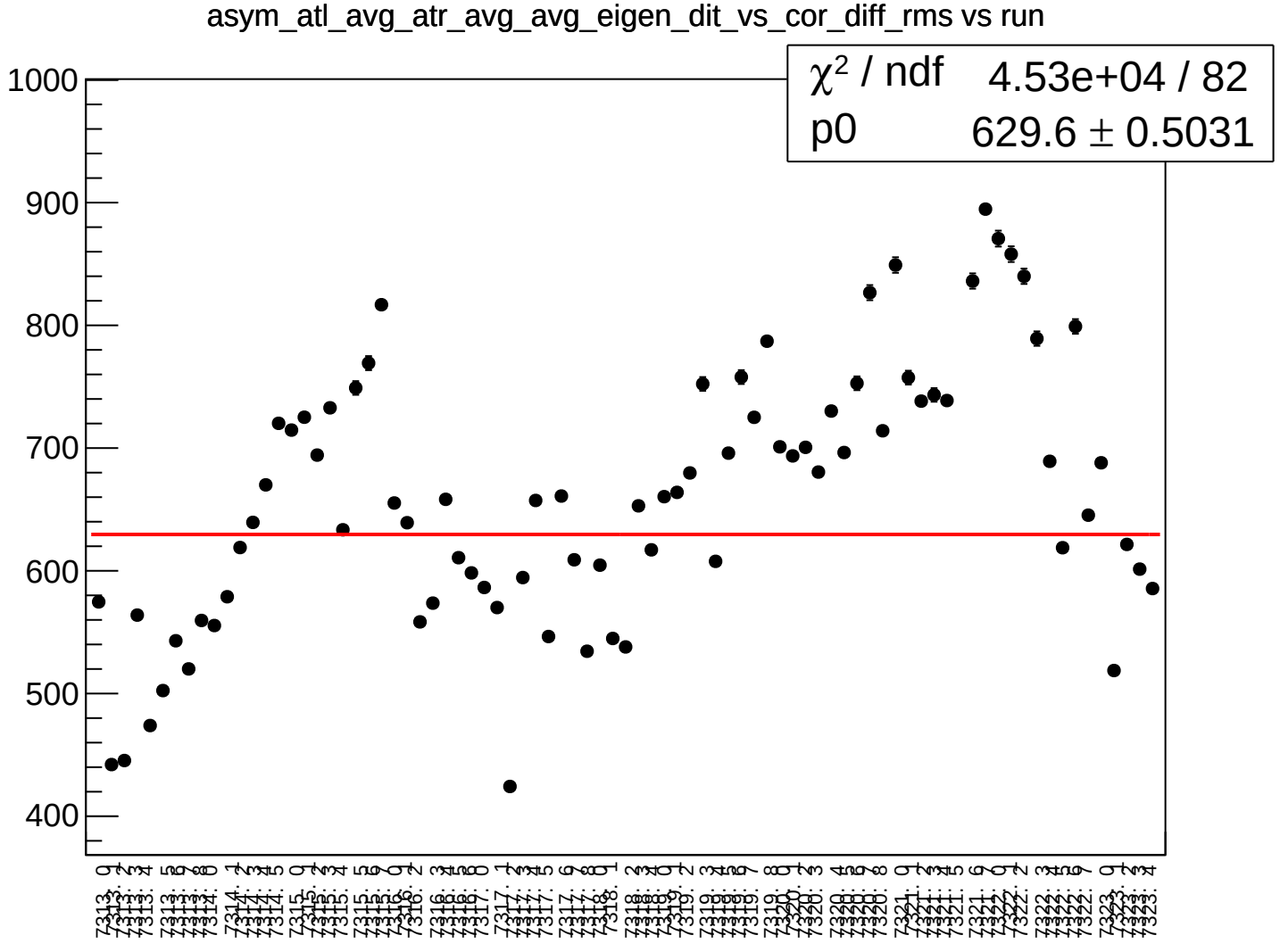

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.53e+04 / 82
p0 629.6 ± 0.5031
1000
900
800
700
600
500
400

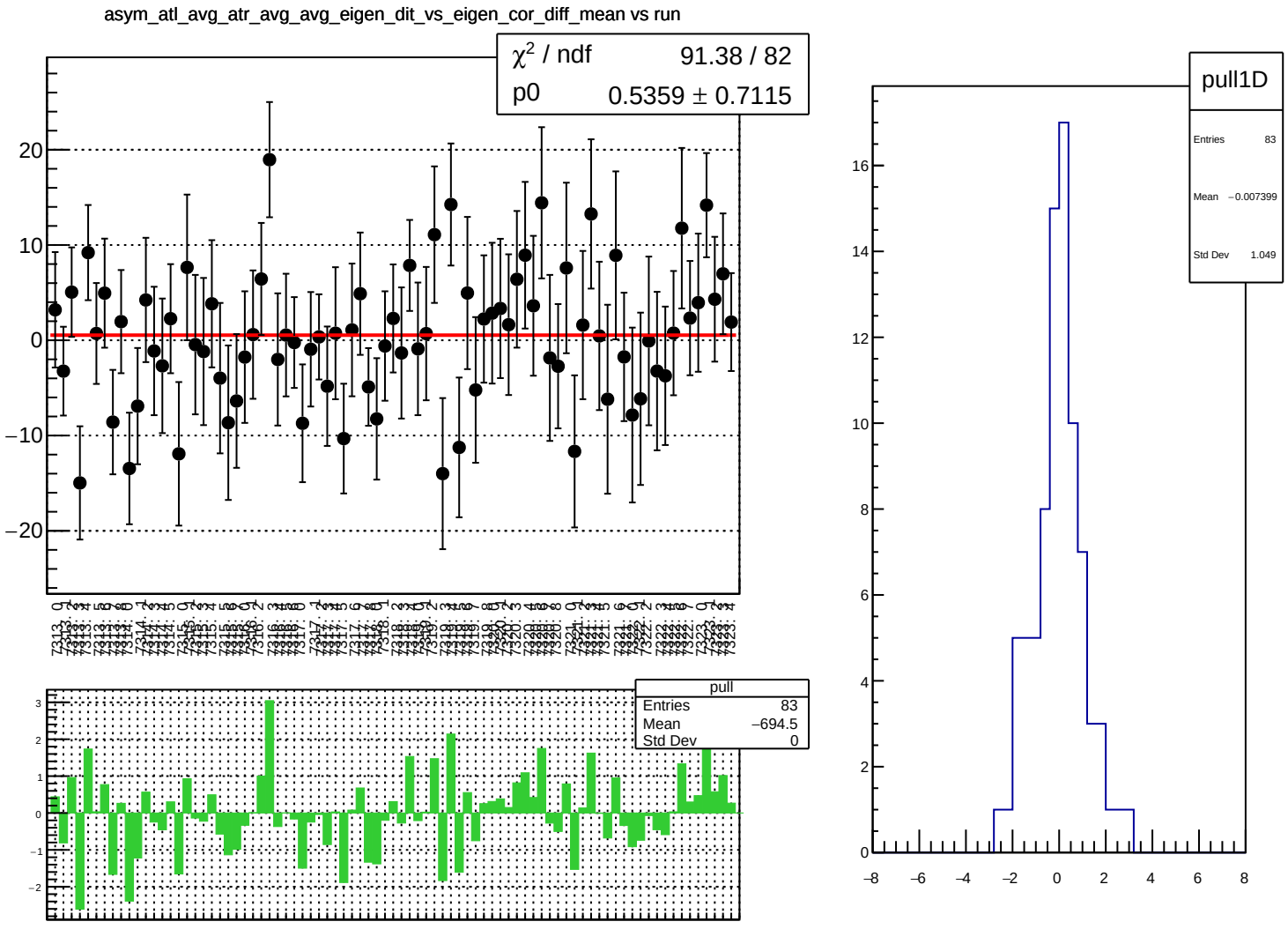

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.99 / 82
p0 2.007e−05 ± 1.799e−05
pull
Entries 83
Mean 599.4
Std Dev 0

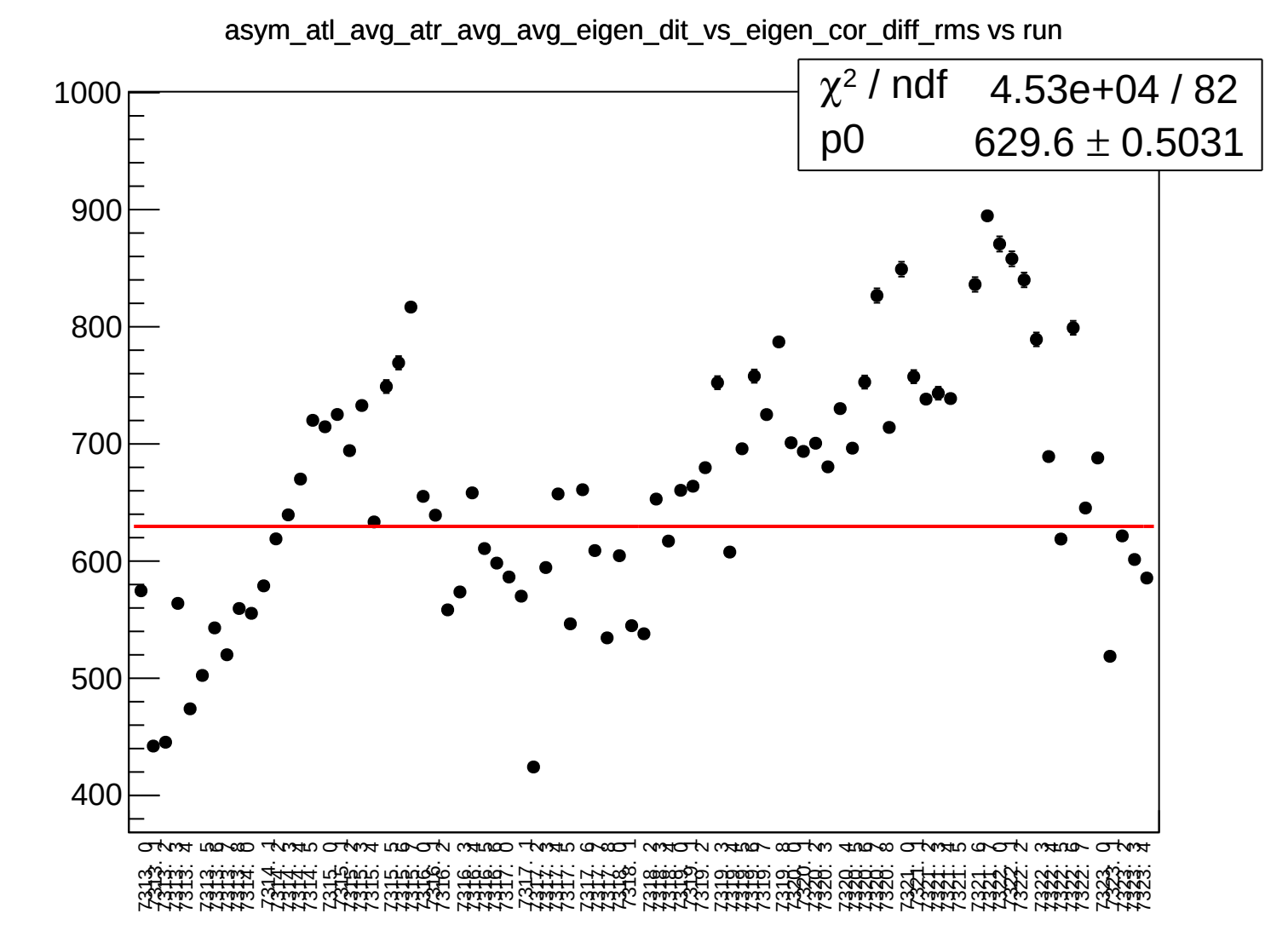

pull1D
Entries 83
Mean 0.006971
Std Dev 0.9568

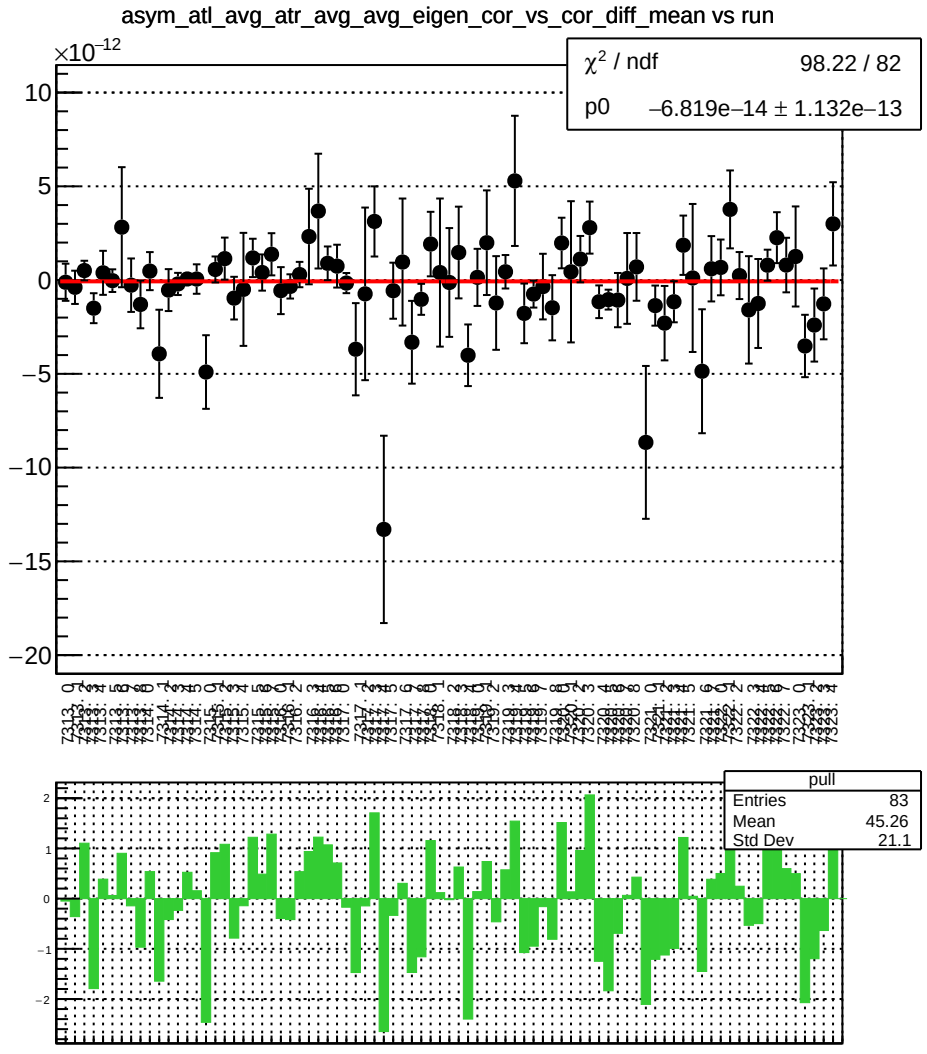

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.298e+04 / 82
p0 0.01608 ± 1.272e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

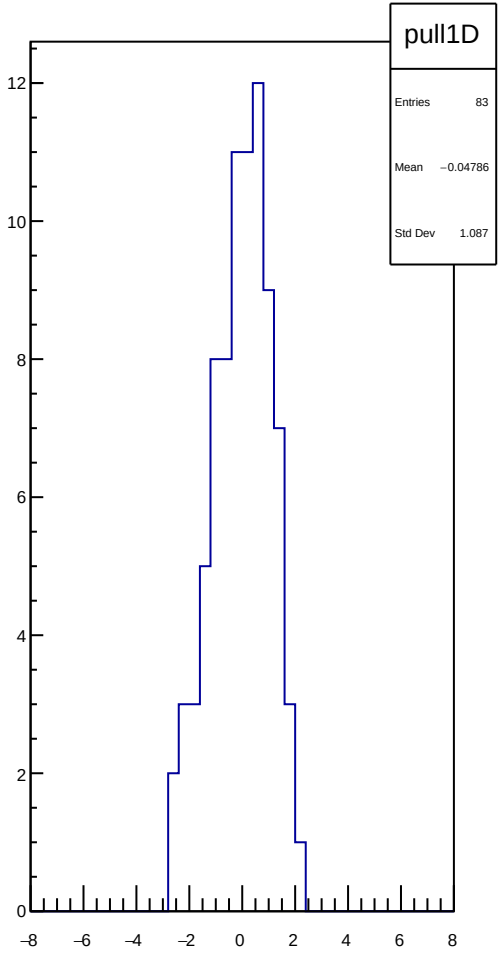

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.38 / 82
p0 0.5359 ± 0.7115
pull
Entries 83
Mean −694.5
Std Dev 0
pull1D
Entries 83
Mean −0.007399
Std Dev 1.049

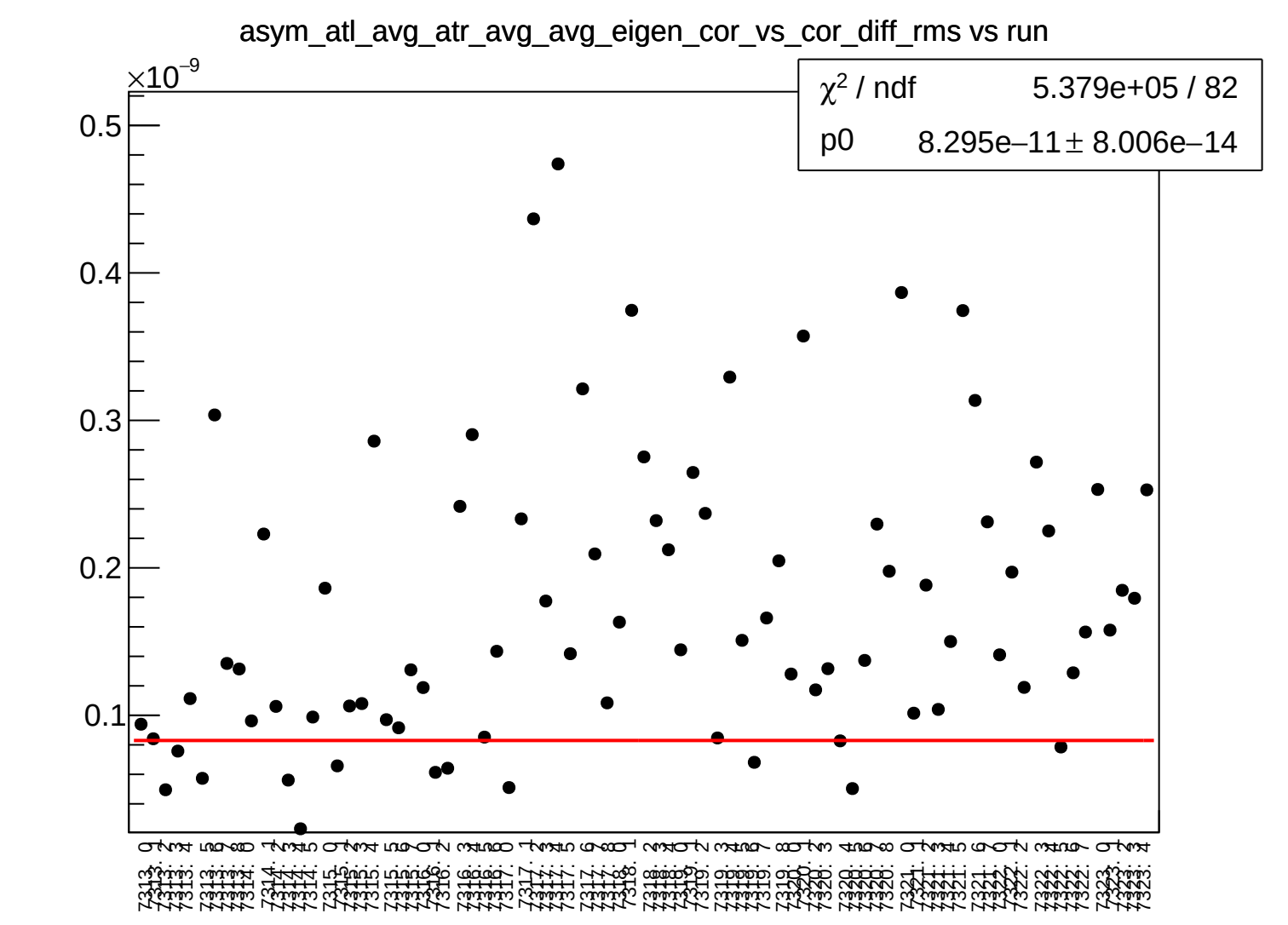

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.53e+04 / 82
p0 629.6 ± 0.5031
1000
900
800
700
600
500
400

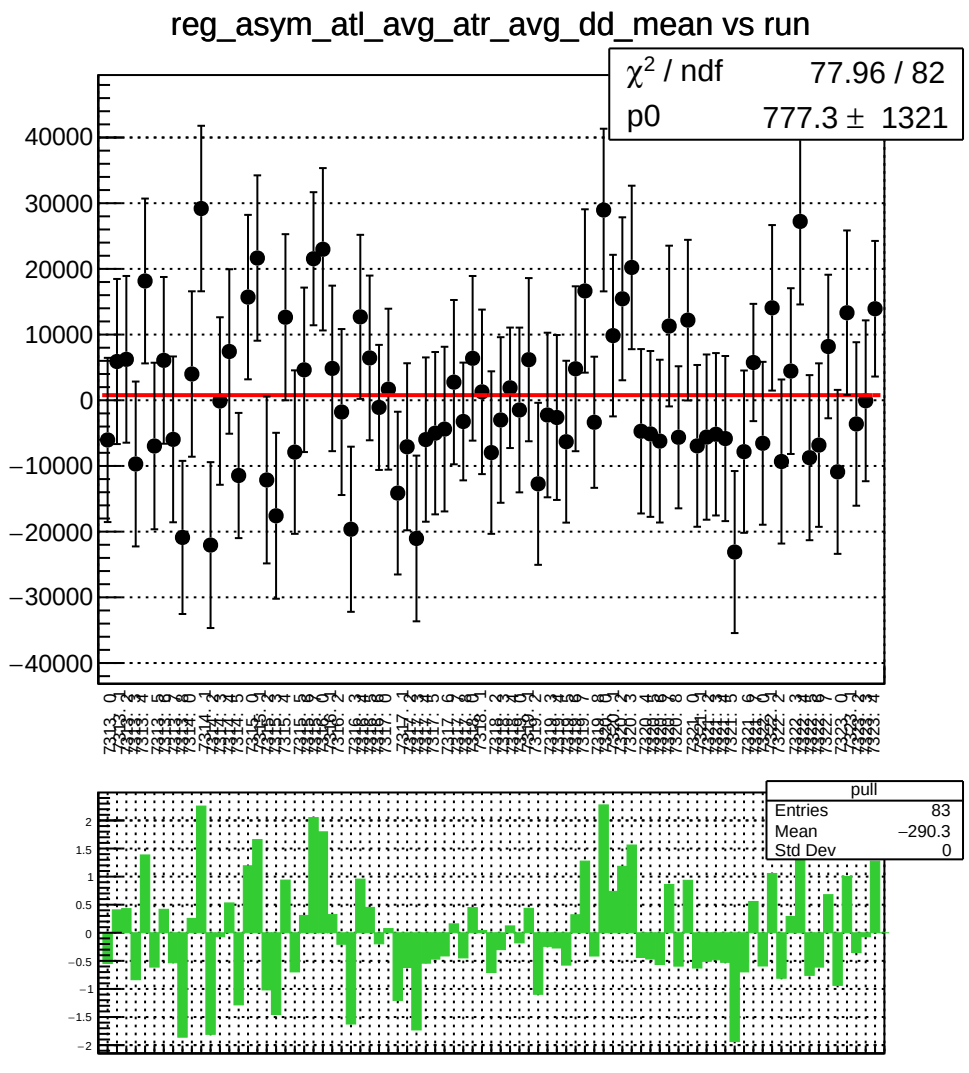

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.38 / 82
p0 0.5359 ± 0.7115
pull
Entries 83
Mean −694.5
Std Dev 0
pull1D
Entries 83
Mean −0.007399
Std Dev 1.049

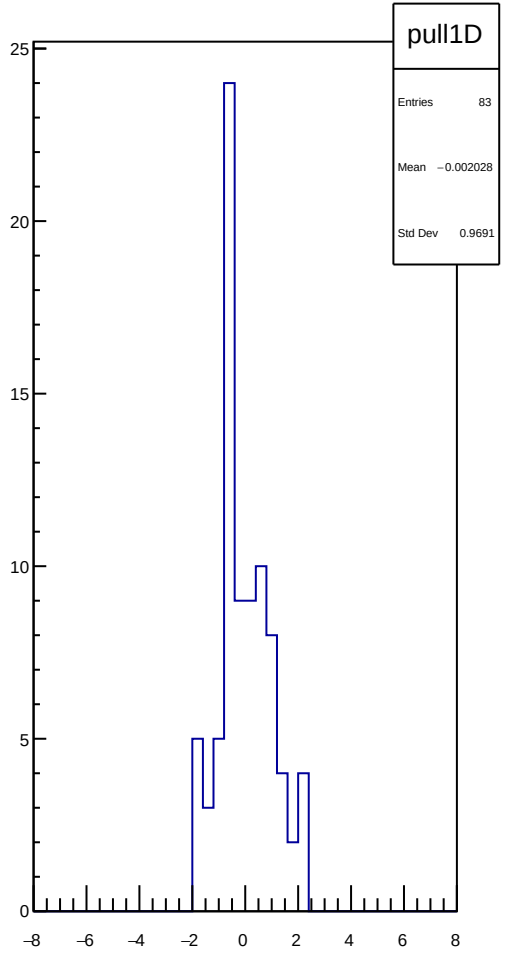

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.53e+04 / 82
p0 629.6 ± 0.5031
1000
900
800
700
600
500
400

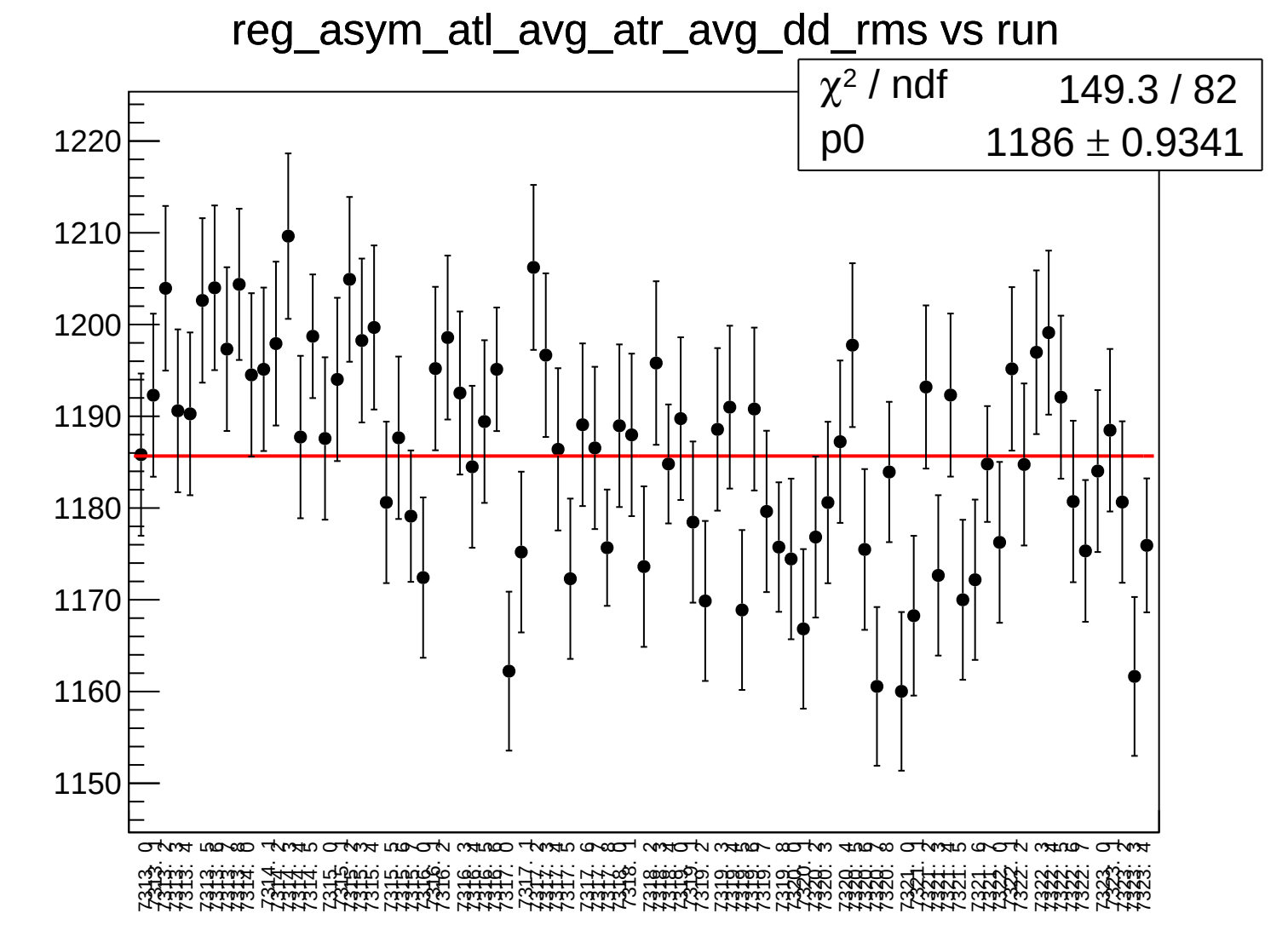

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.22 / 82
p0 −6.819e−14 ± 1.132e−13
pull
Entries 83
Mean 45.26
Std Dev 21.1

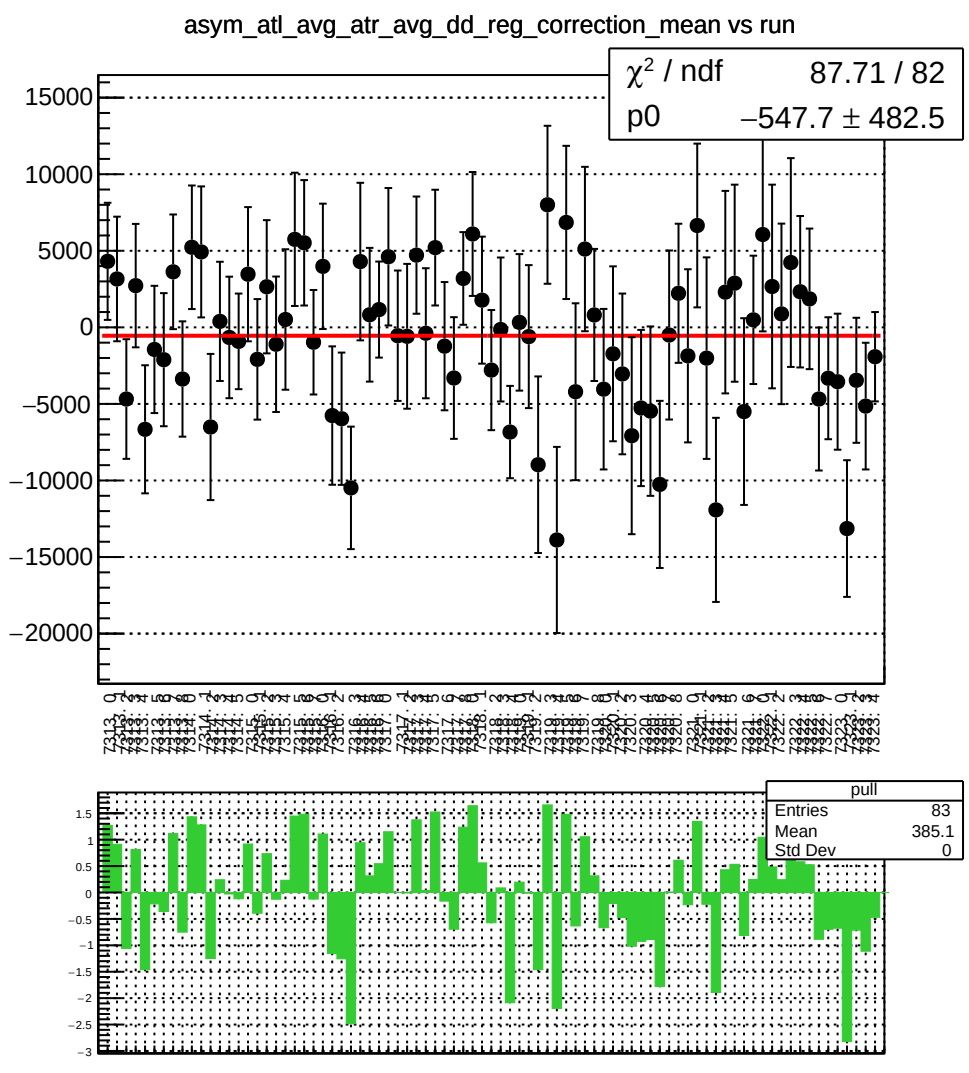

pull1D
Entries 83
Mean −0.04786
Std Dev 1.087

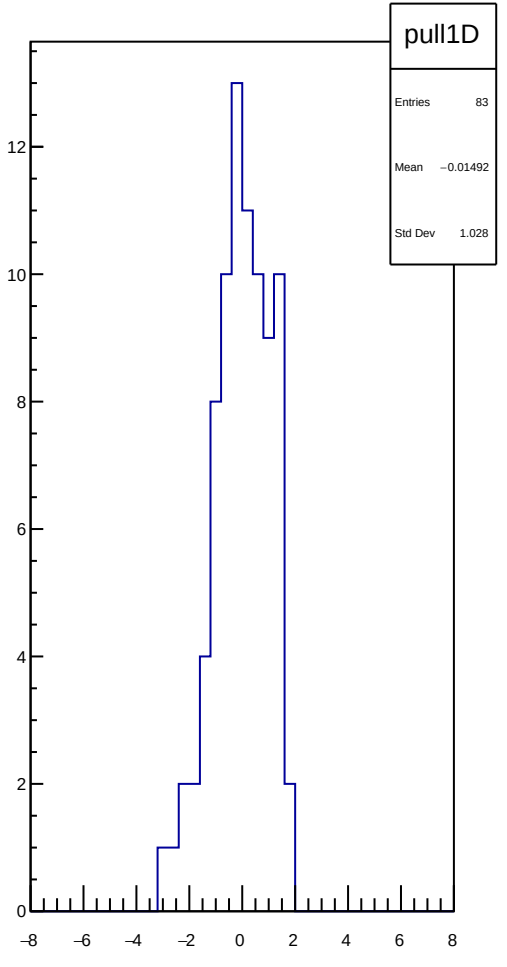

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.379e+05 / 82
p0 8.295e−11 ± 8.006e−14
0.5
0.4
0.3
0.2
0.1

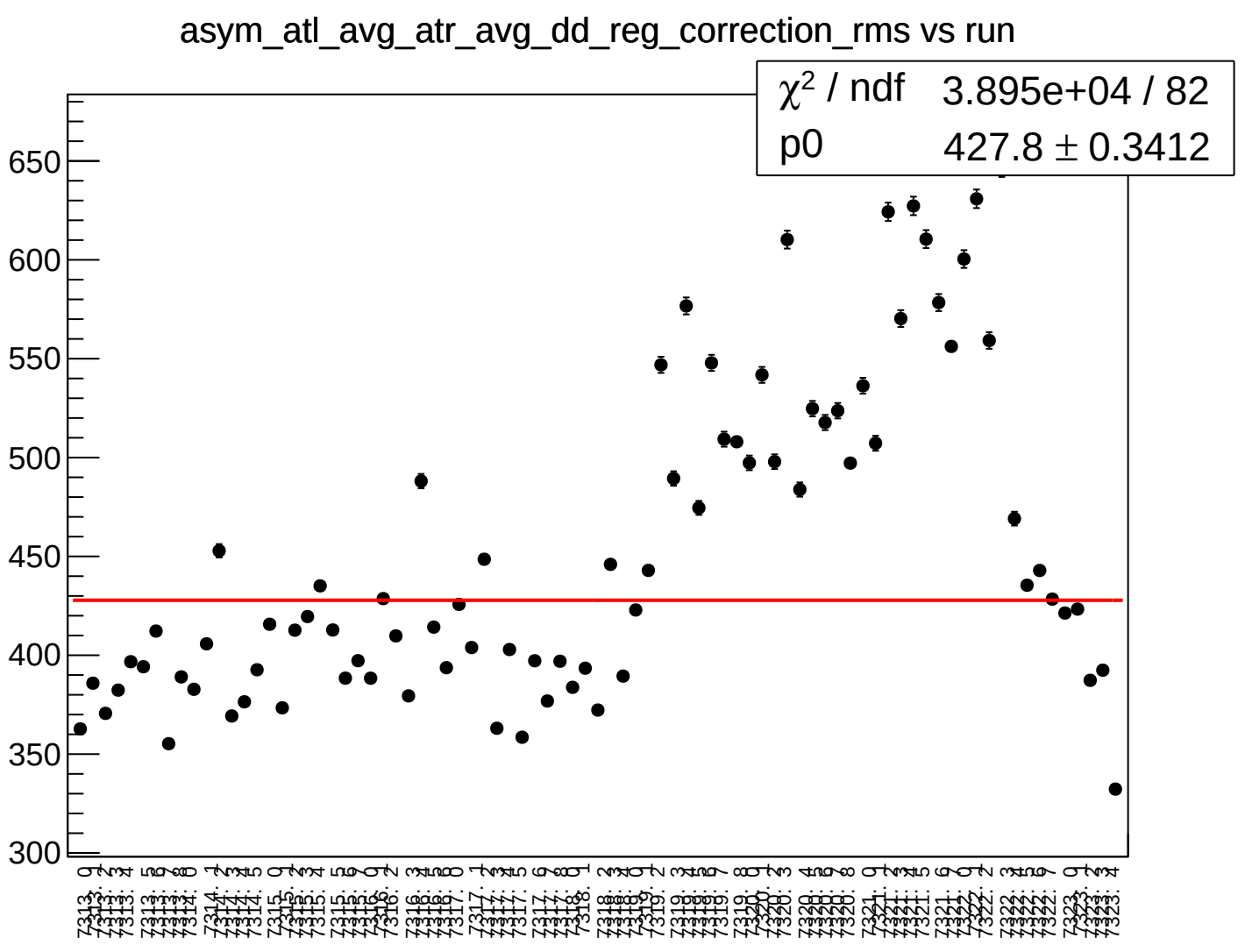

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.96 / 82
p0 777.3 ± 1321
pull
Entries 83
Mean −290.3
Std Dev 0

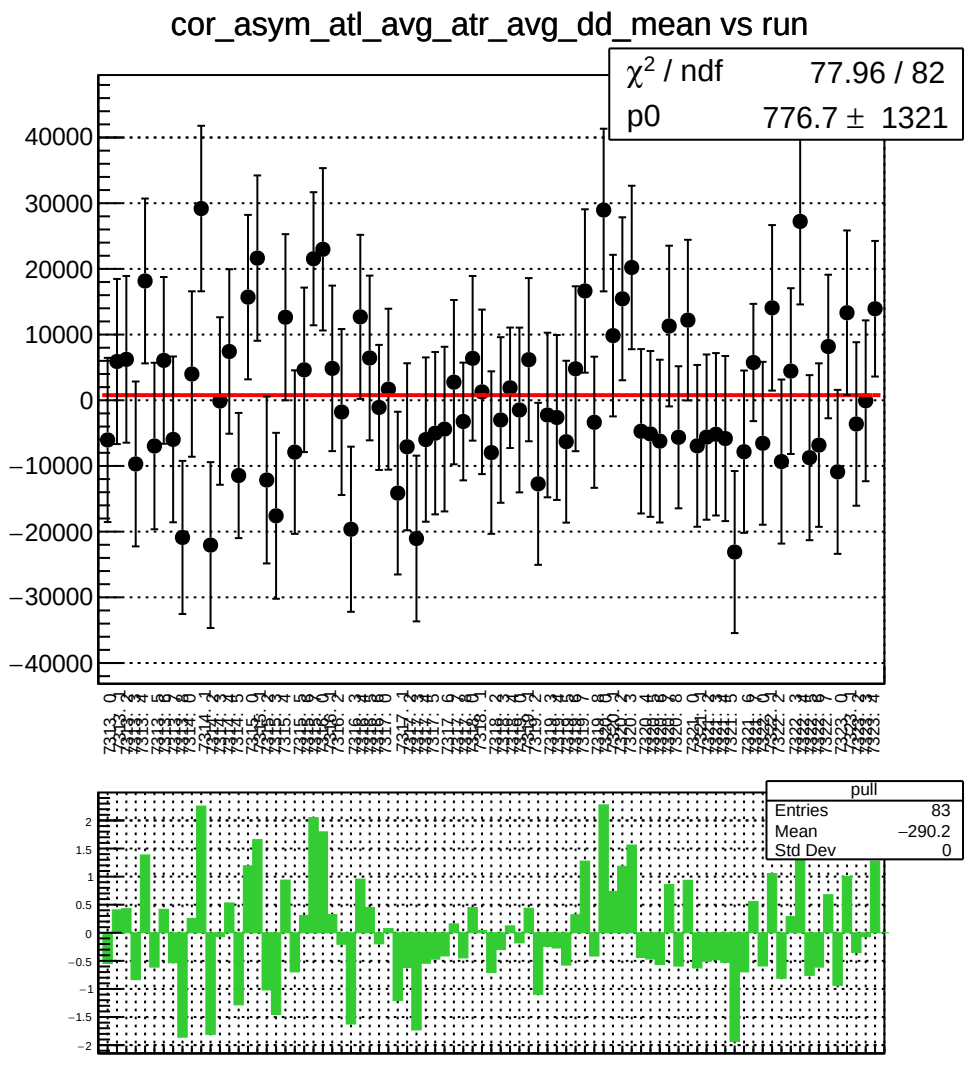

pull1D
Entries 83
Mean −0.002028
Std Dev 0.9691

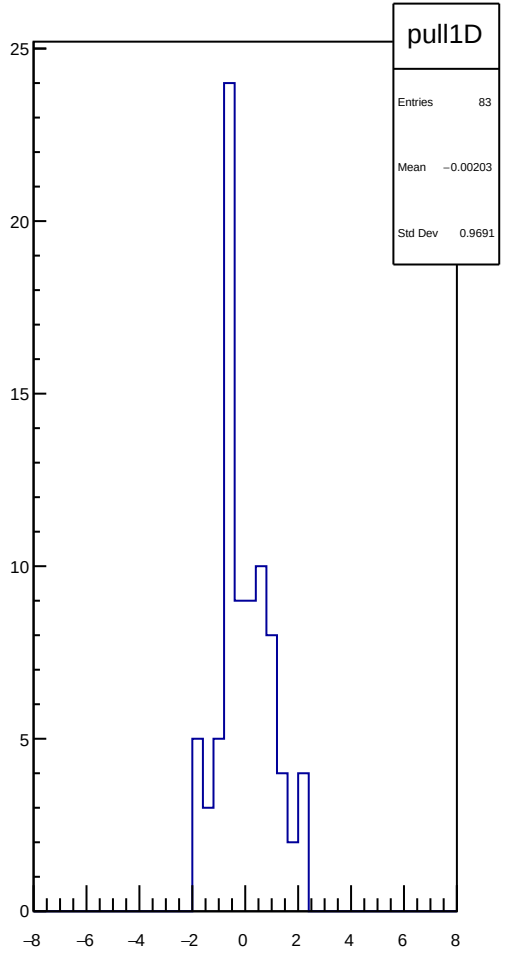

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 149.3 / 82
p0 1186 ± 0.9341
1220
1210
1200
1190
1180
1170
1160
1150

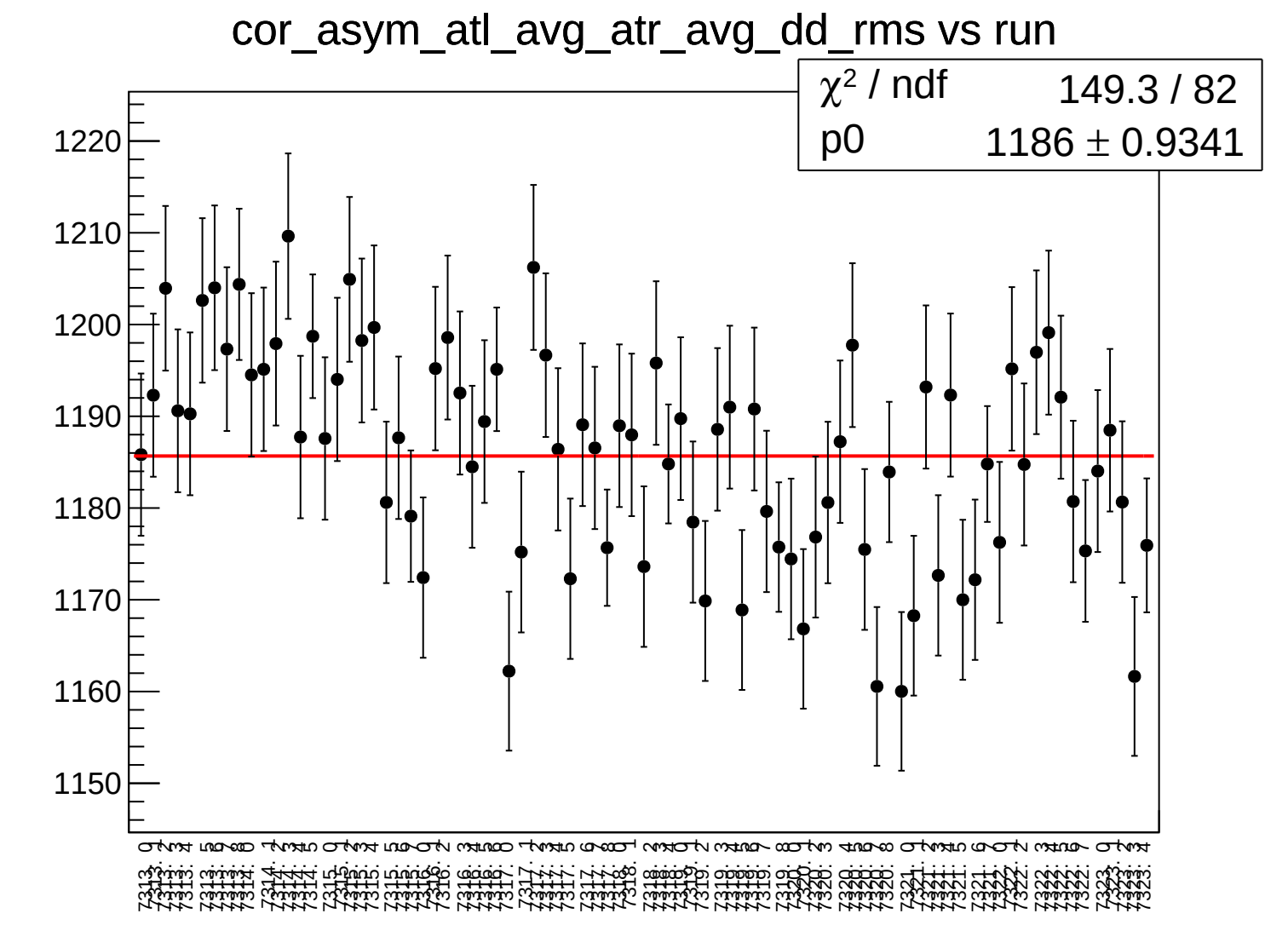

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 87.71 / 82
p0 −547.7 ± 482.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 385.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

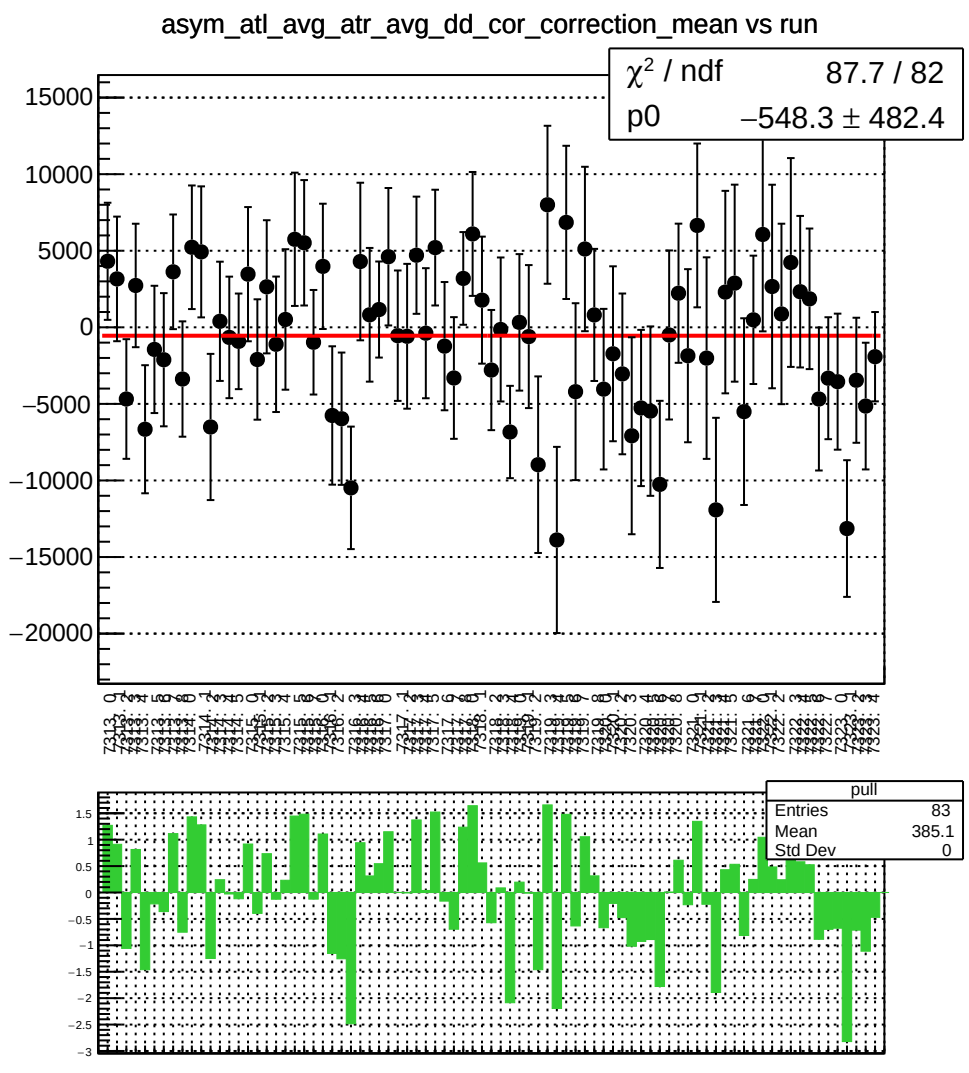

pull1D
Entries 83
Mean −0.01492
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

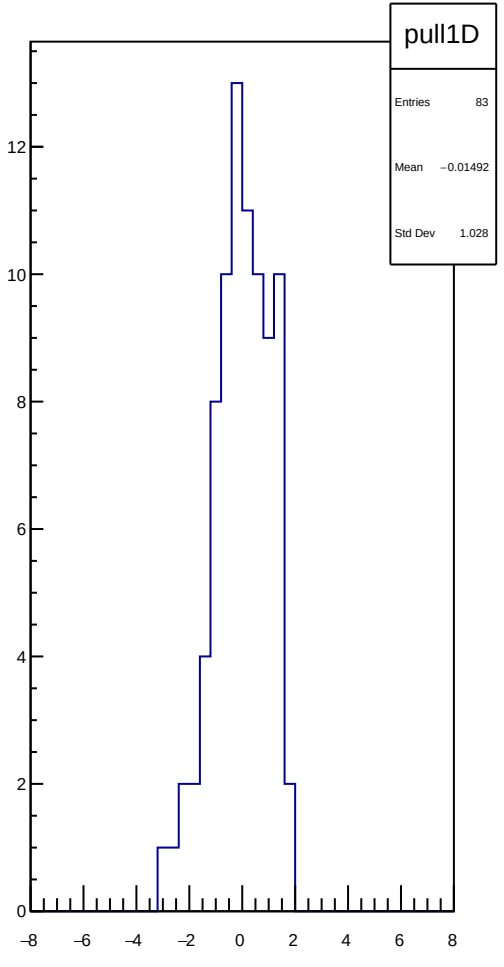

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.895e+04 / 82
p0 427.8 ± 0.3412
650
600
550
500
450
400
350
300

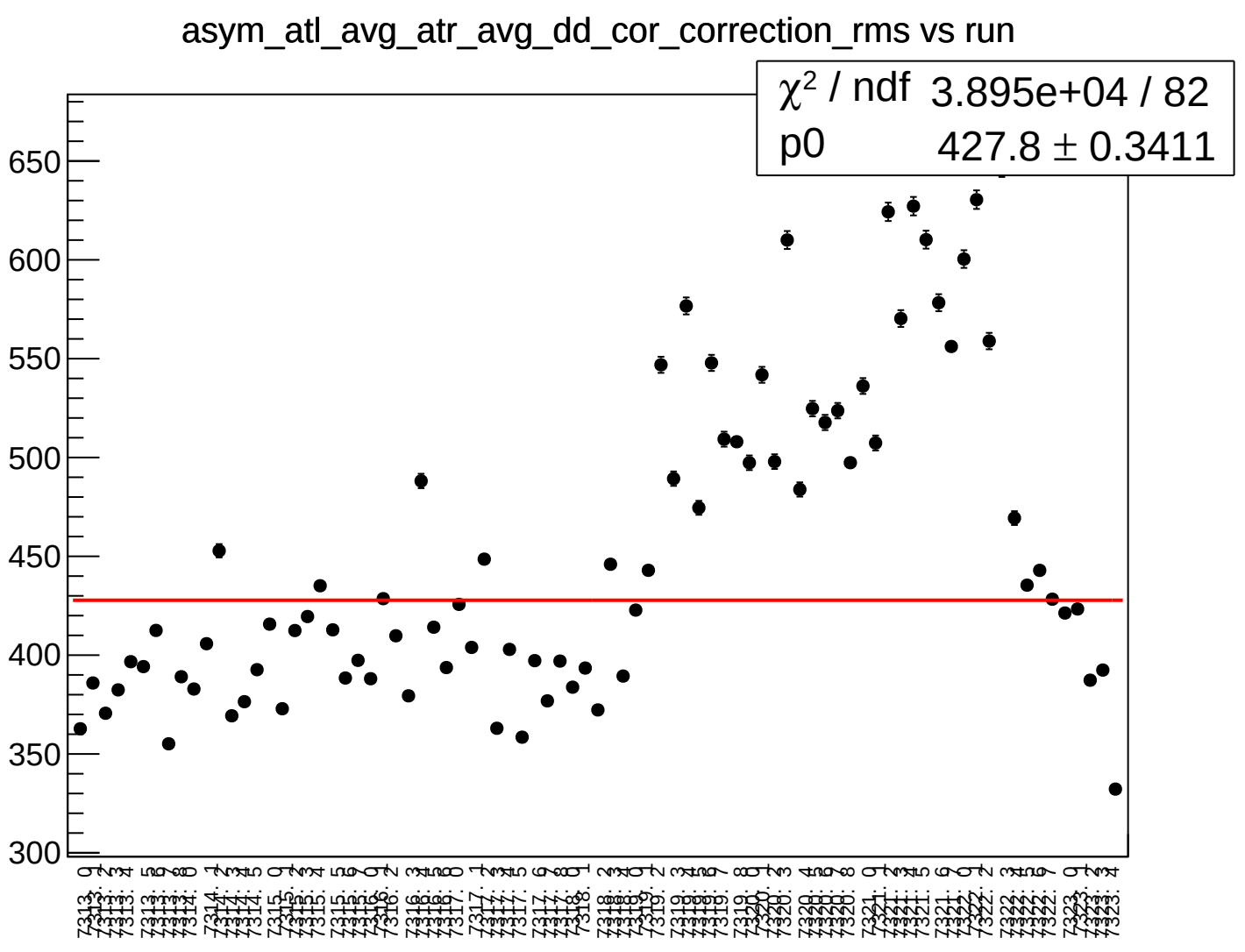

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.96 / 82
p0 776.7 ± 1321
pull
Entries 83
Mean −290.2
Std Dev 0

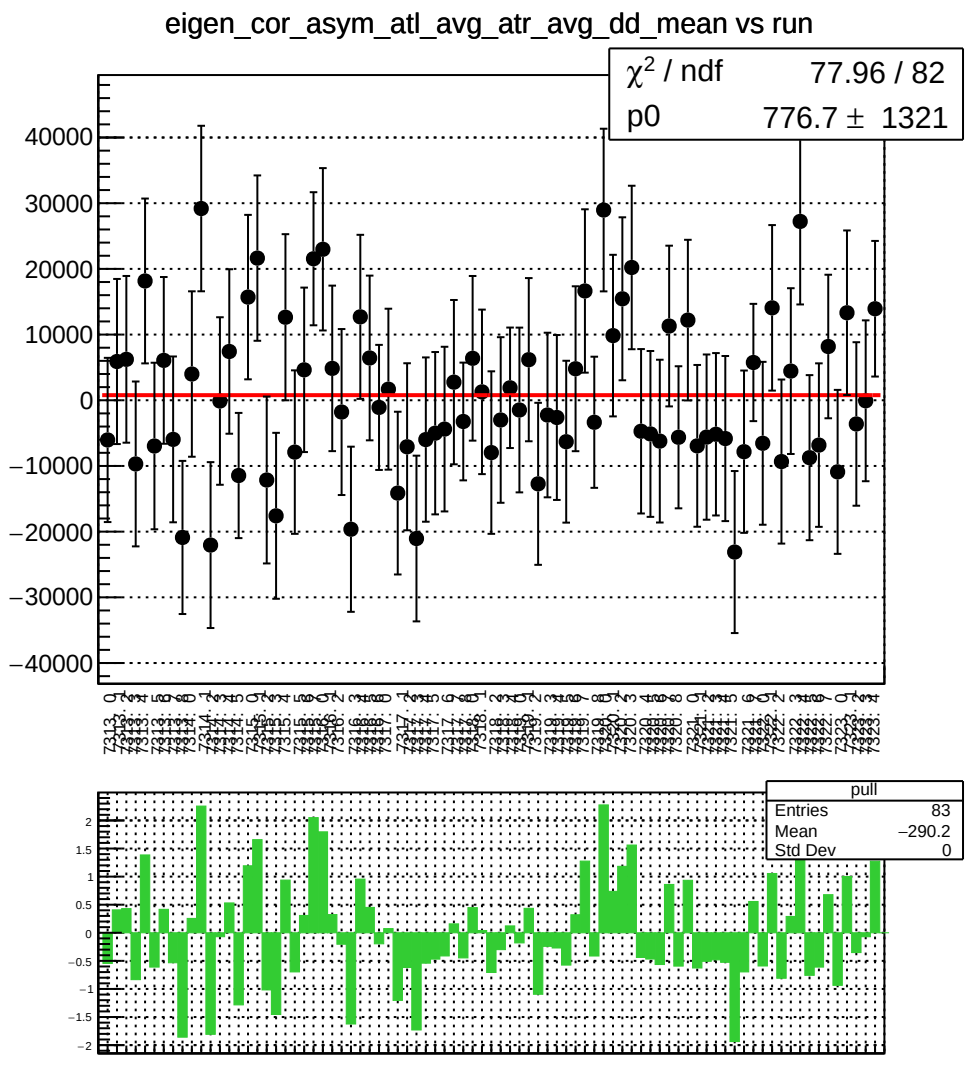

pull1D
Entries 83
Mean −0.00203
Std Dev 0.9691

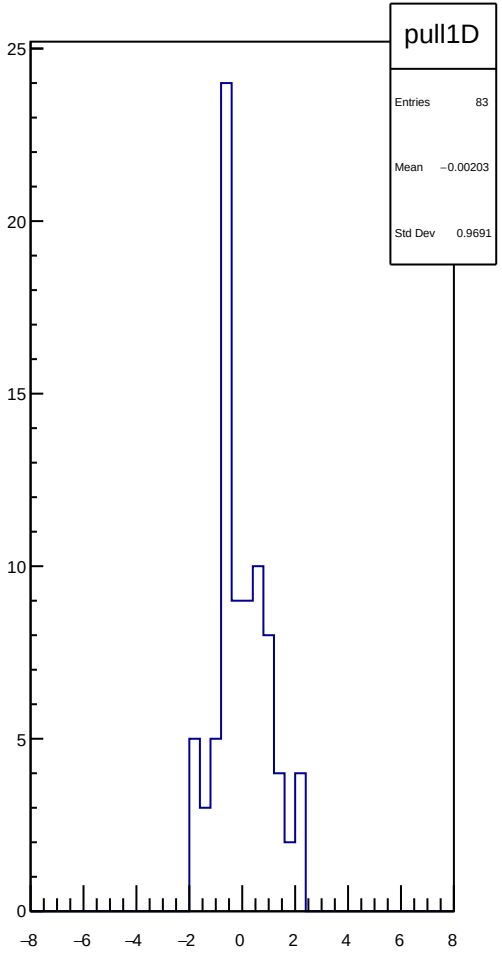

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 149.3 / 82
p0 1186 ± 0.9341
1220
1210
1200
1190
1180
1170
1160
1150

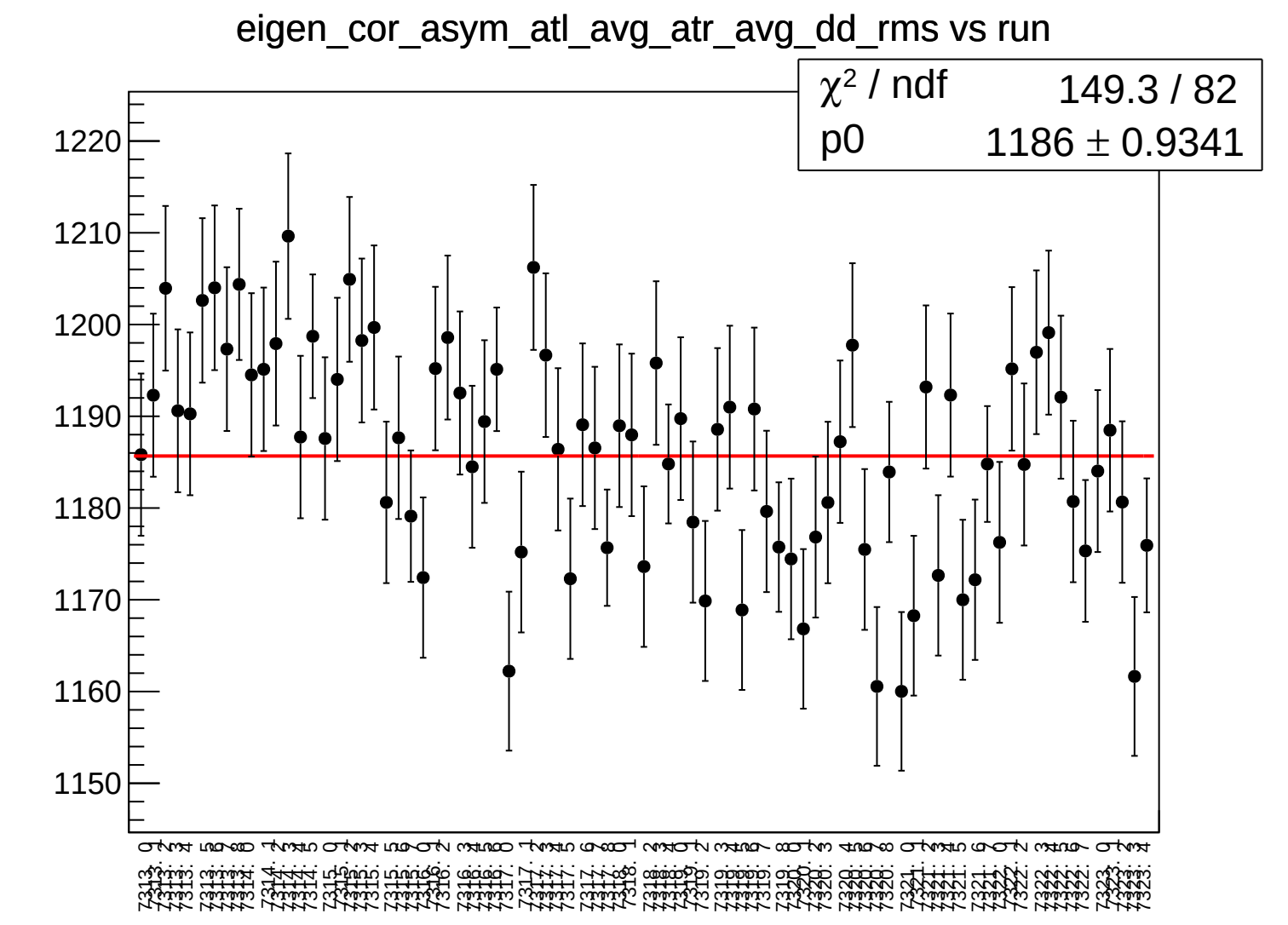

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 87.7 / 82
p0 −548.3 ± 482.4
pull
Entries 83
Mean 385.1
Std Dev 0

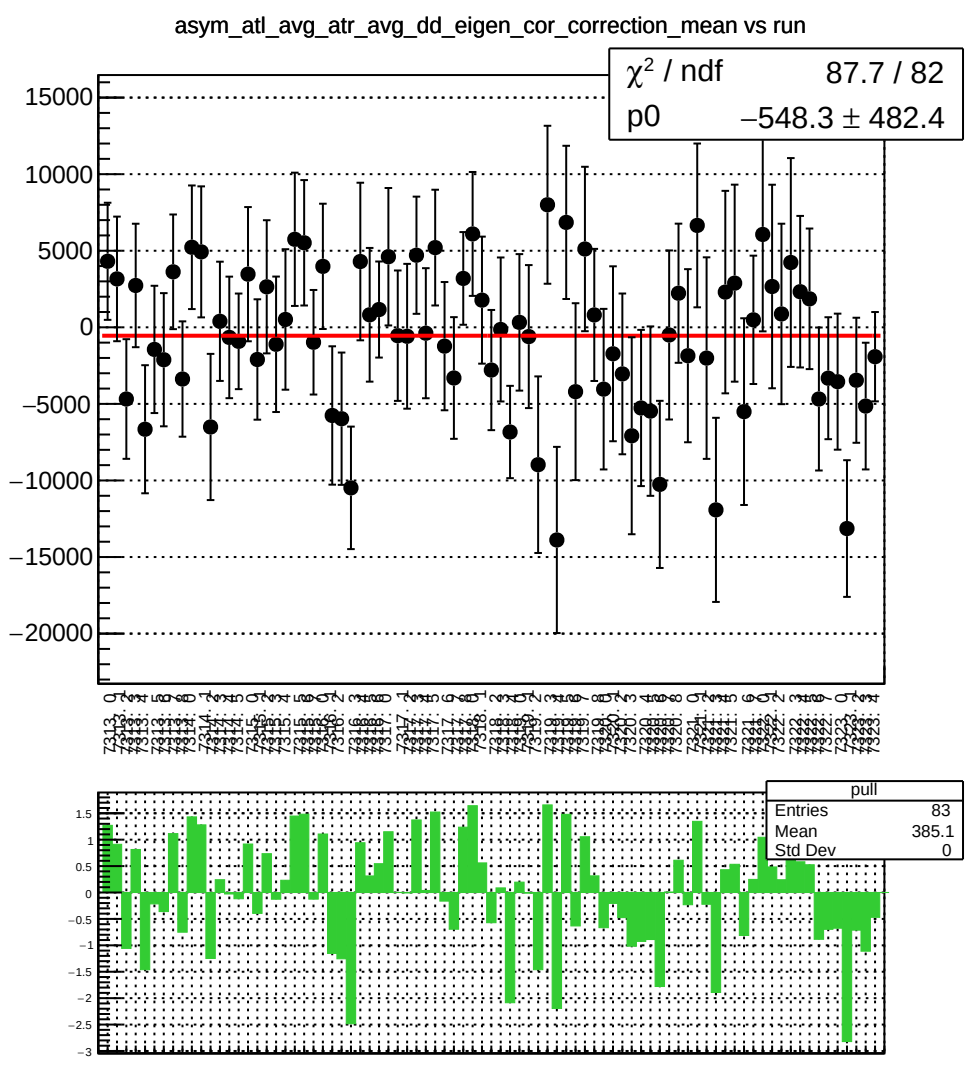

pull1D
Entries 83
Mean −0.01492
Std Dev 1.028

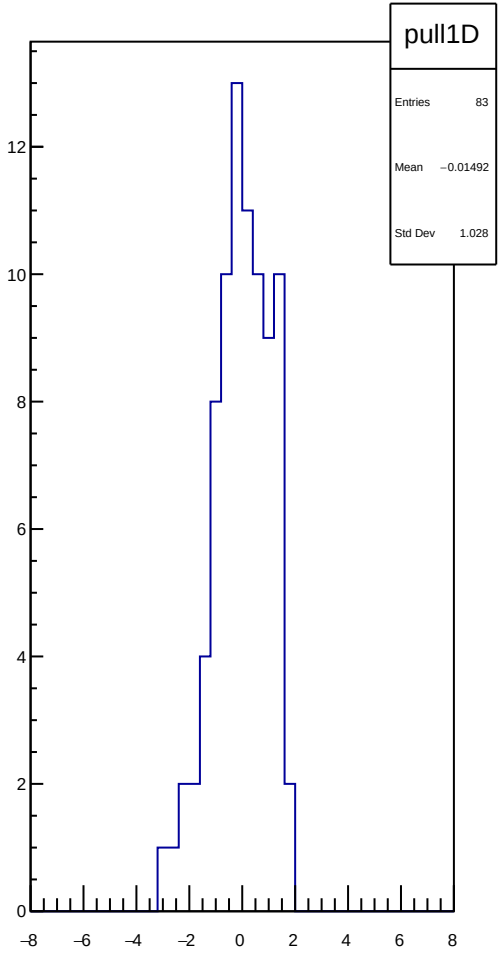

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.895e+04 / 82
p0 427.8 ± 0.3411
650
600
550
500
450
400
350
300

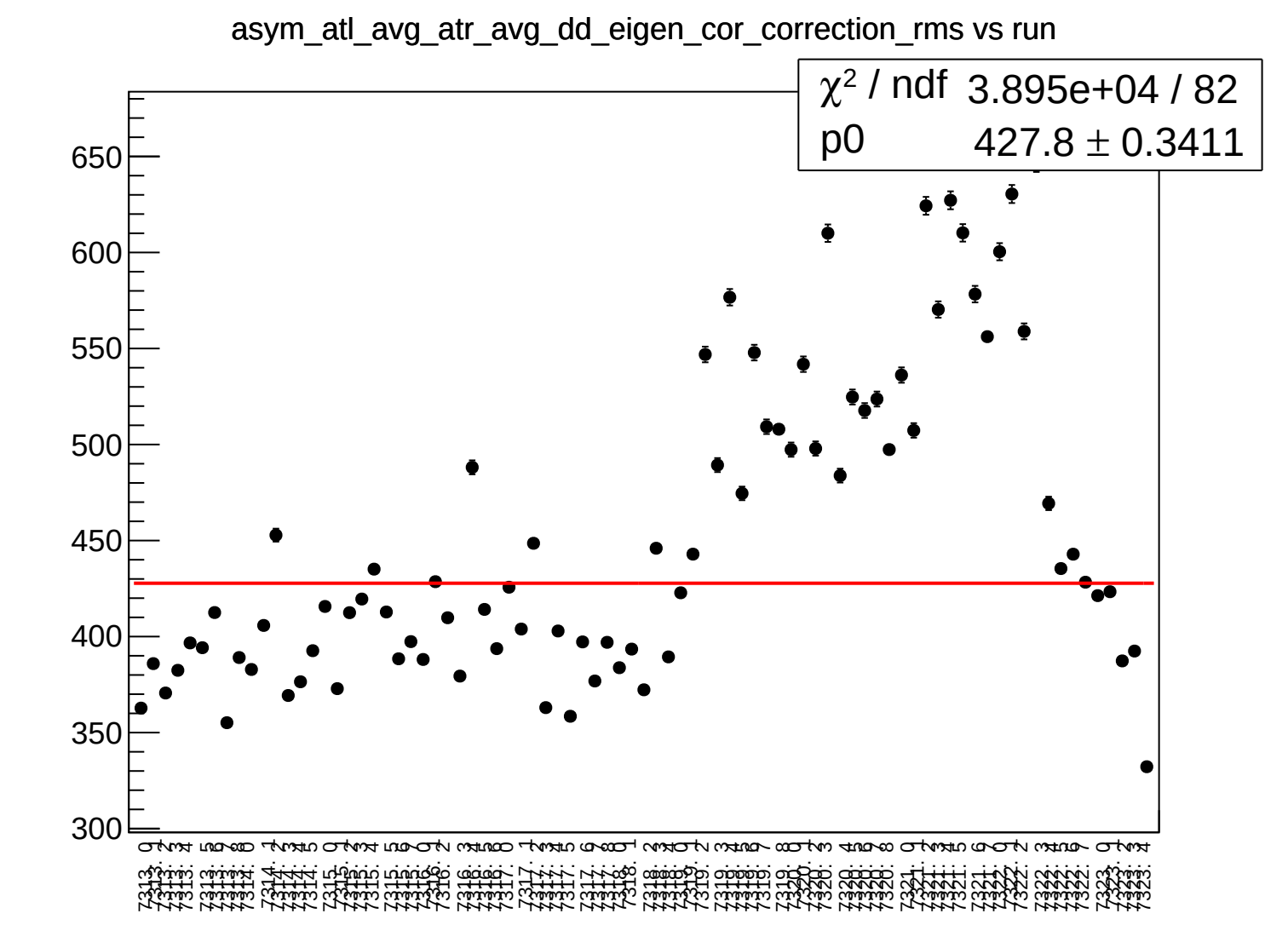

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.96 / 82
p0 776.7 ± 1321
pull
Entries 83
Mean −290.2
Std Dev 0

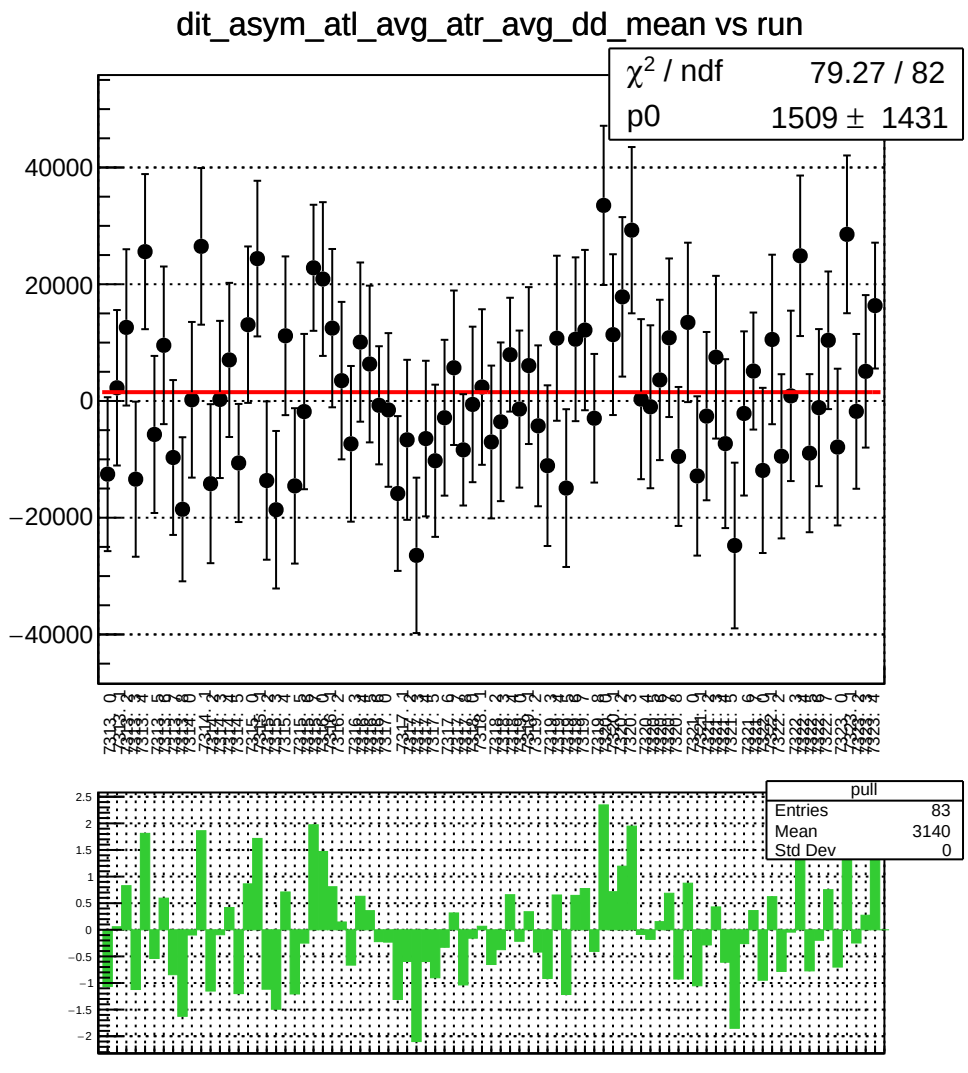

pull1D
Entries 83
Mean −0.00203
Std Dev 0.9691

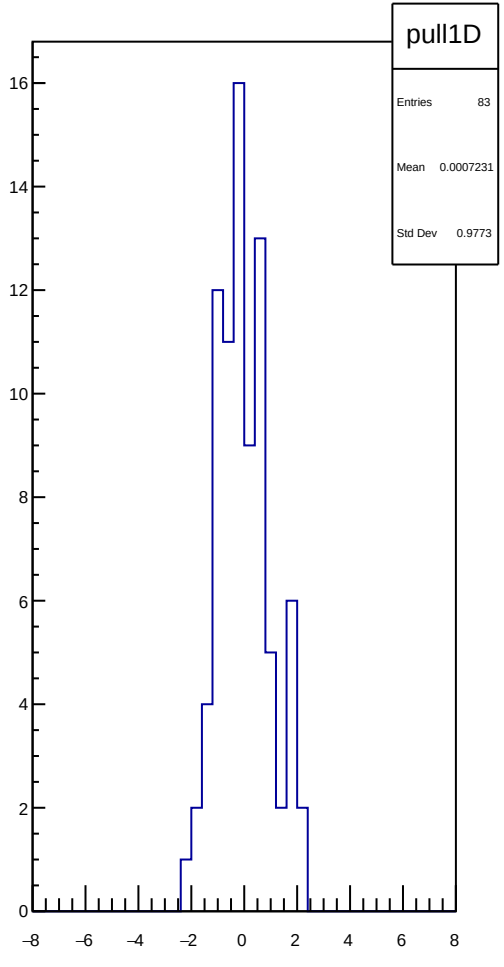

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 149.3 / 82
p0 1186 ± 0.9341
1220
1210
1200
1190
1180
1170
1160
1150

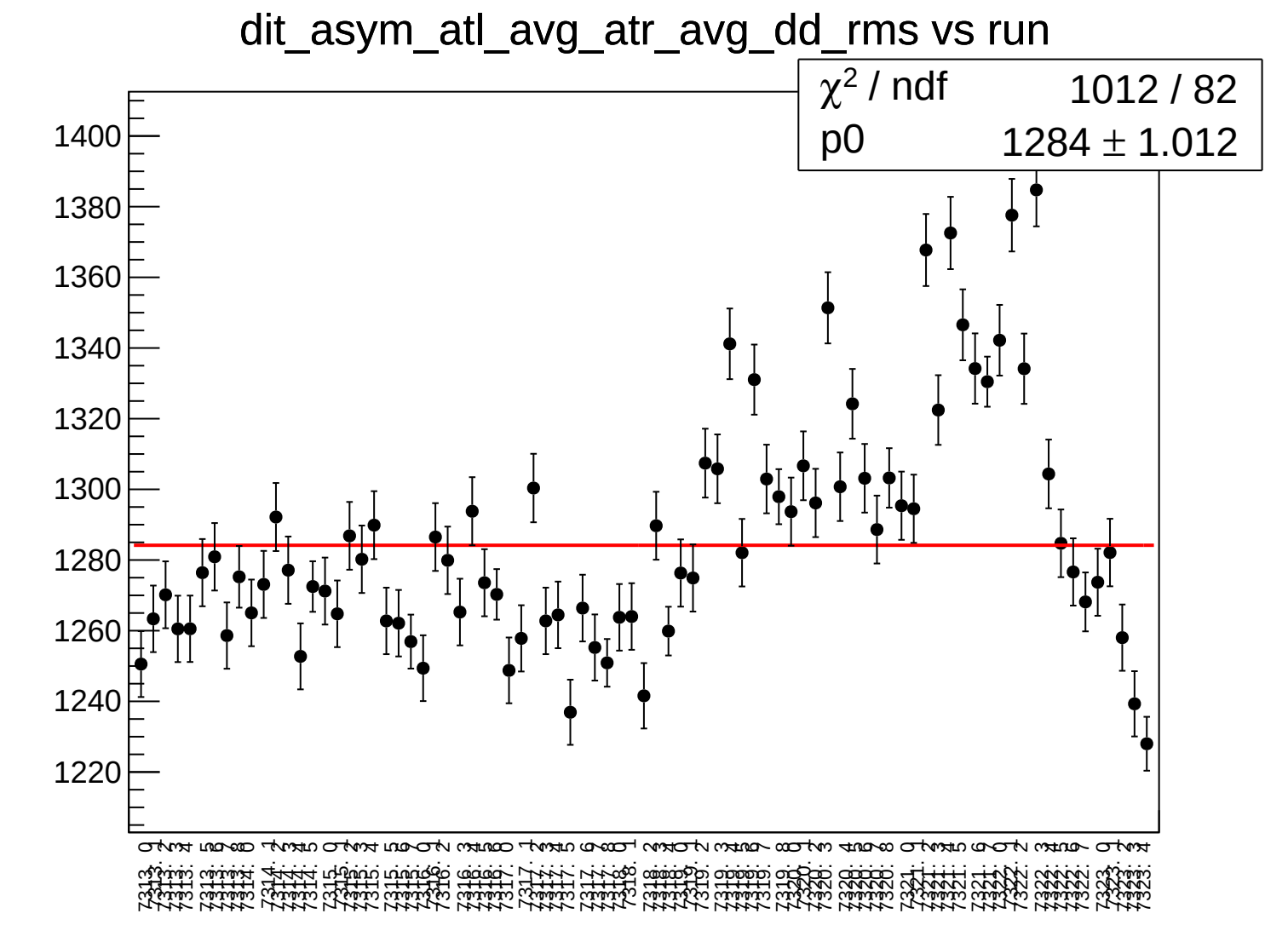

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.7 / 82
p0 −548.3 ± 482.4
pull
Entries 83
Mean 385.1
Std Dev 0

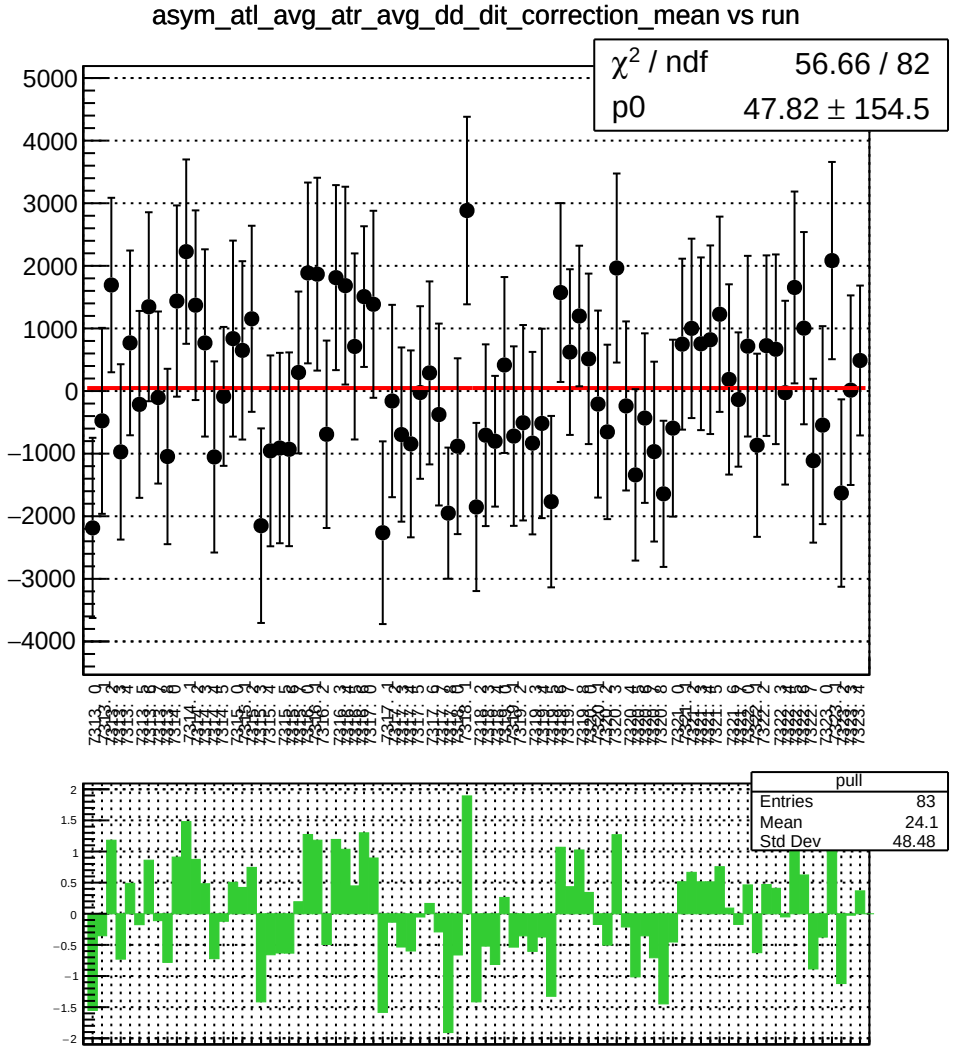

pull1D
Entries 83
Mean −0.01492
Std Dev 1.028

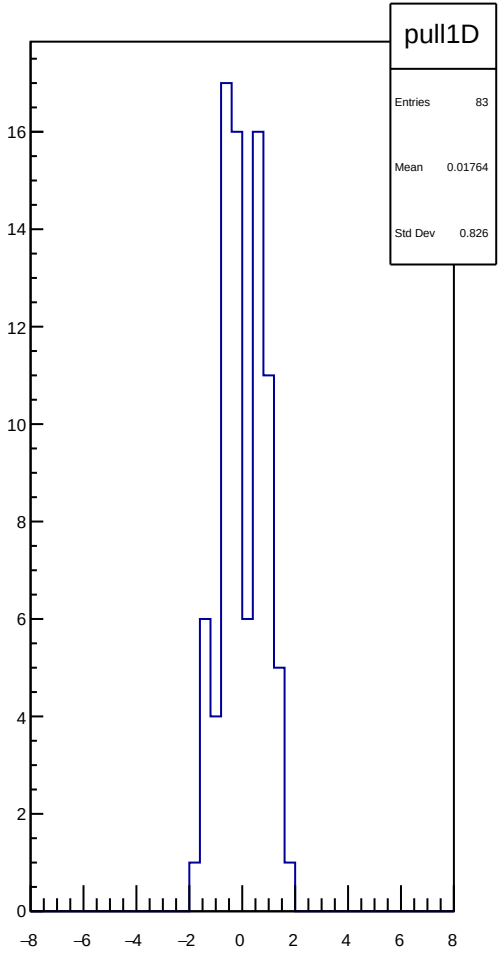

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.895e+04 / 82
p0 427.8 ± 0.3411
650
600
550
500
450
400
350
300

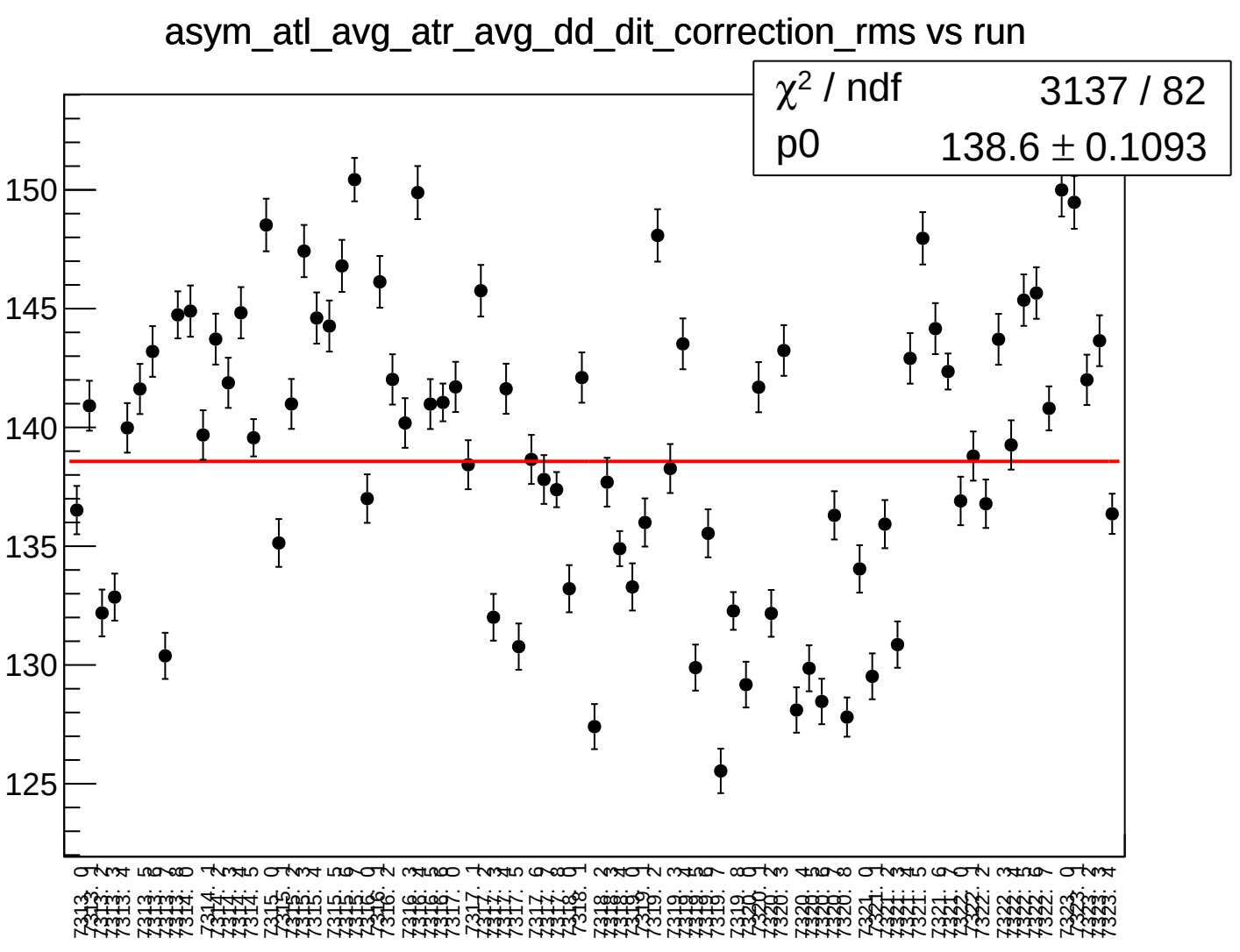

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.27 / 82
p0 1509 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 3140
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

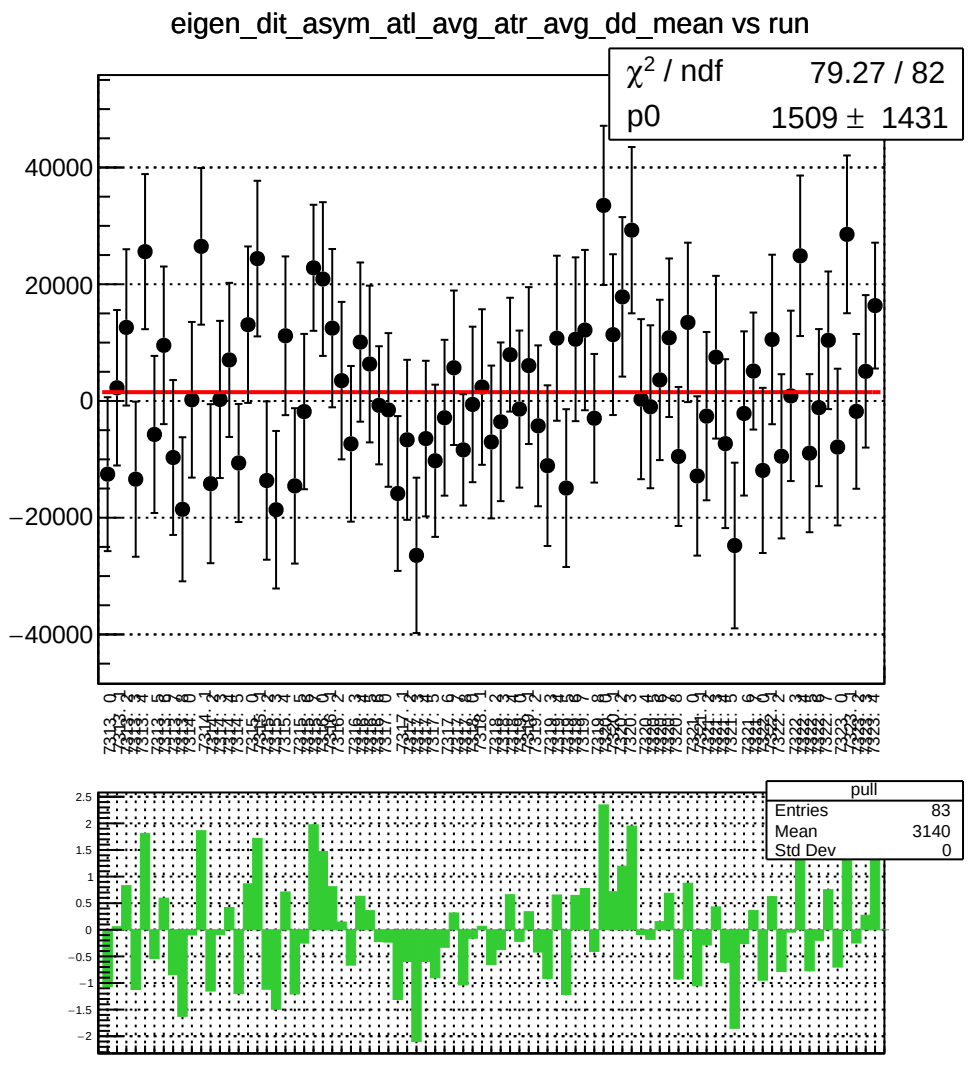

pull1D
Entries 83
Mean 0.0007231
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

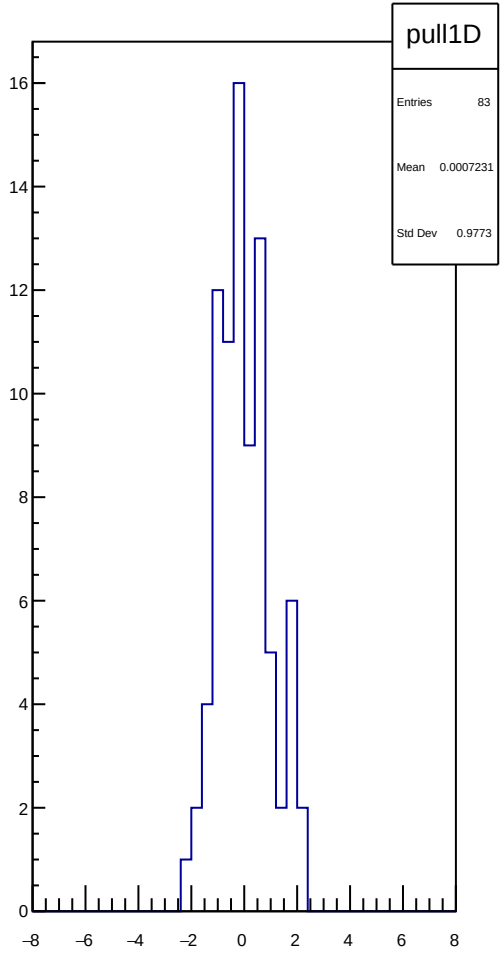

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1012 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

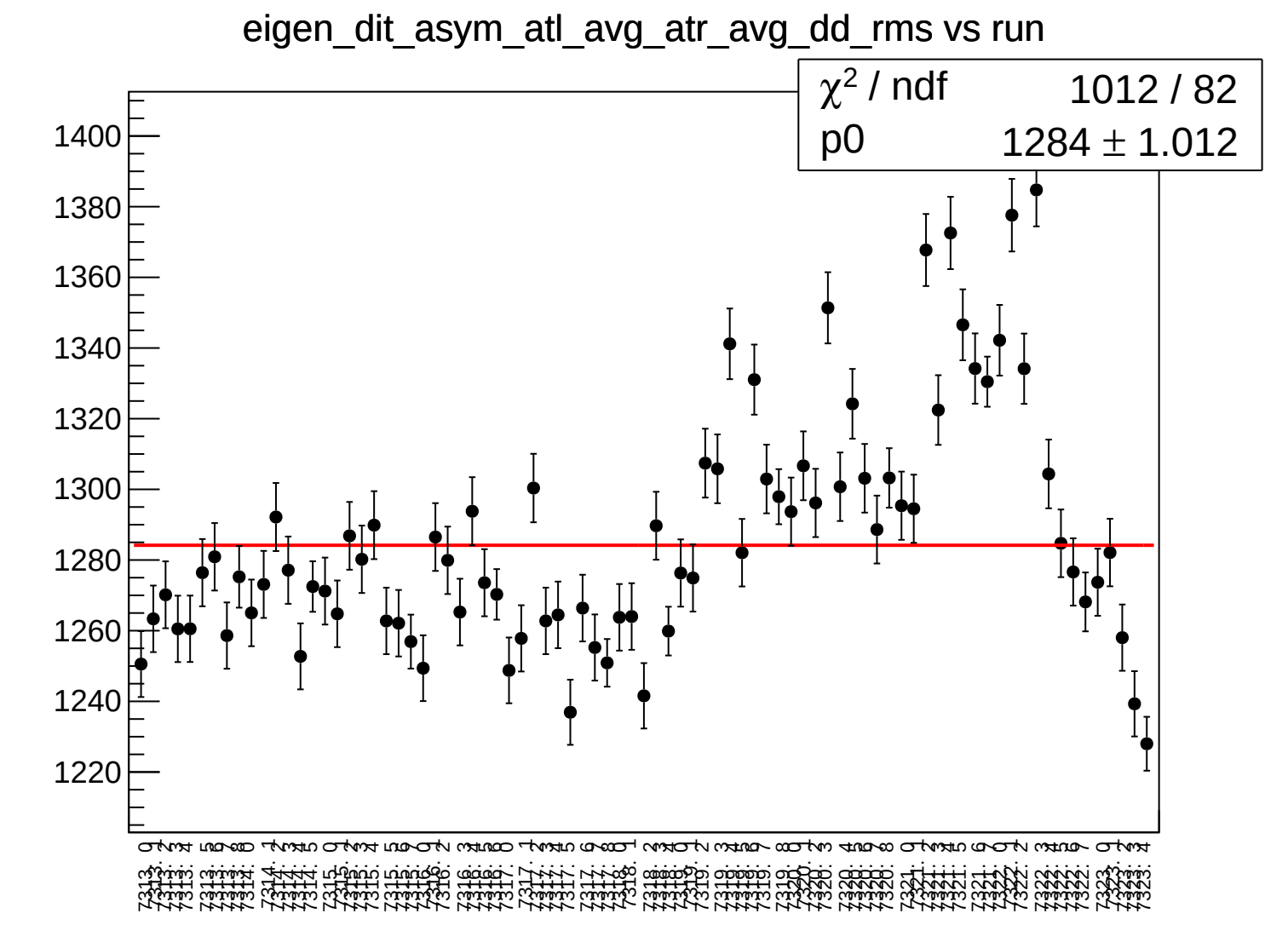

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ^2 / ndf 56.66 / 82
p0 47.82 ± 154.5
pull
Entries 83
Mean 24.1
Std Dev 48.48

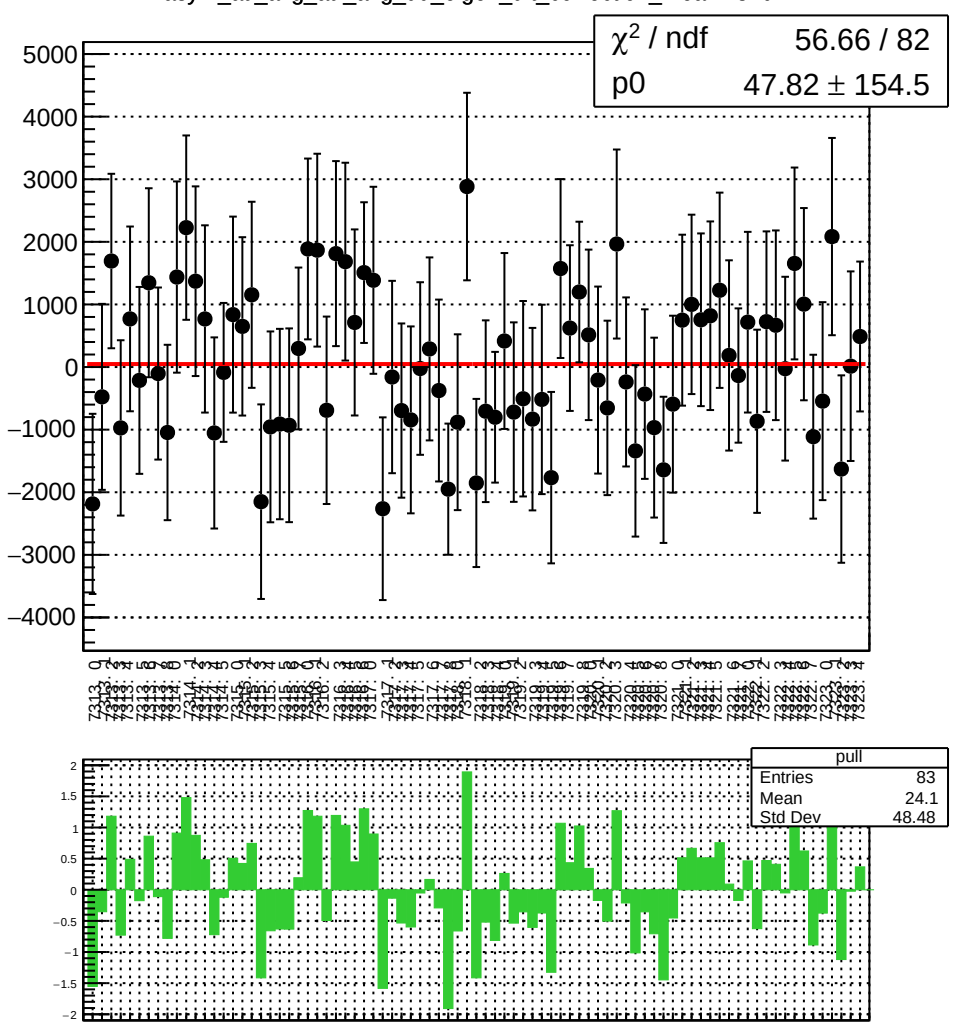

pull1D
Entries 83
Mean 0.01764
Std Dev 0.826

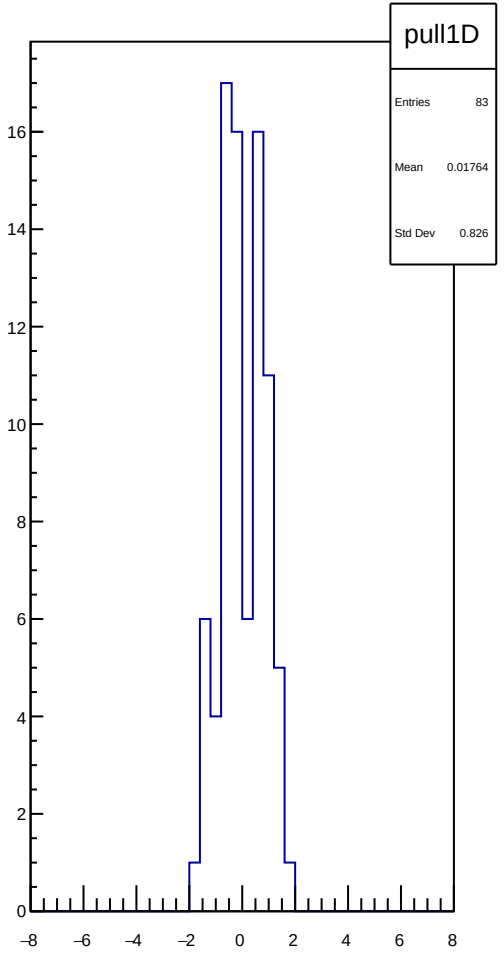

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3137 / 82
p0 138.6 ± 0.1093
150
145
140
135
130
125

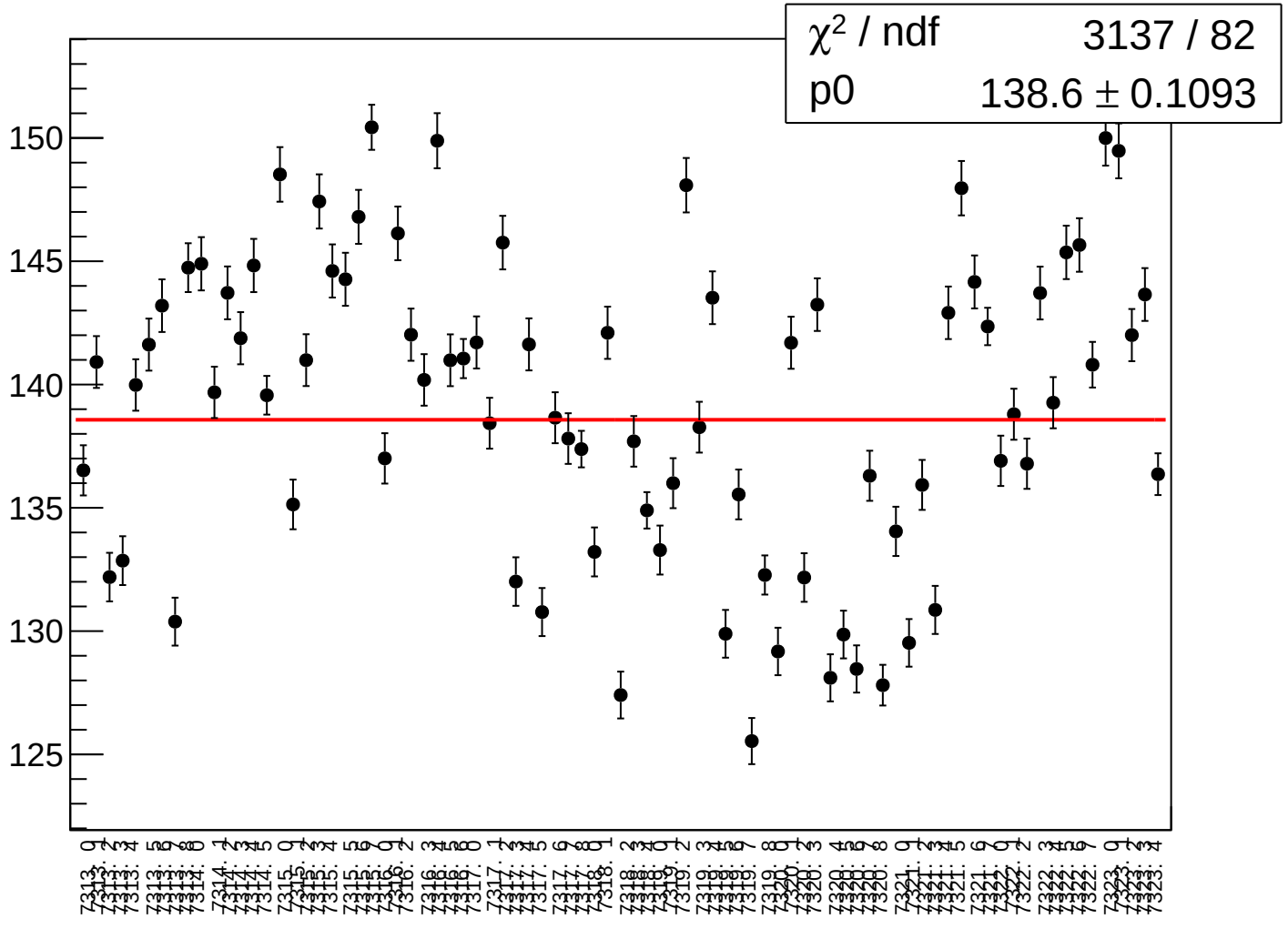

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 79.27 / 82
p0 1509 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 3140
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

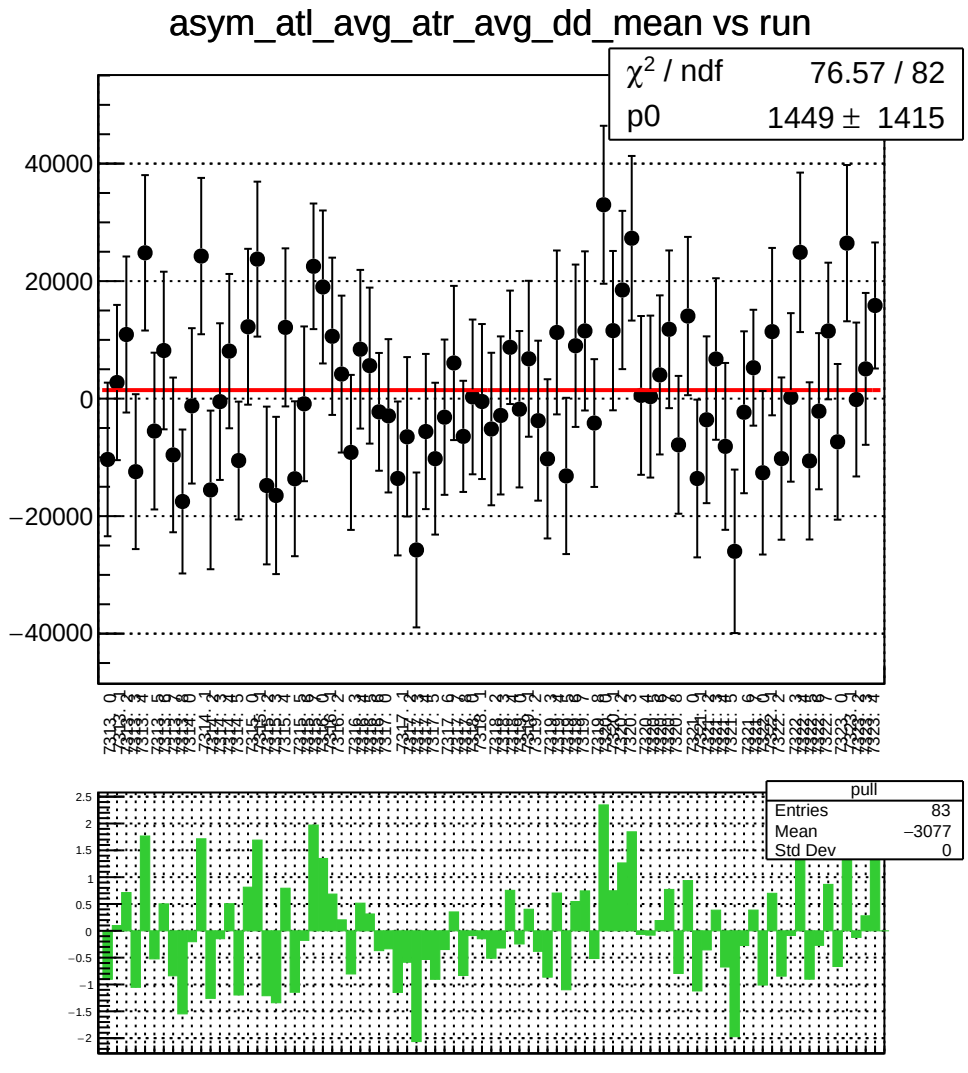

pull1D
Entries 83
Mean 0.0007231
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

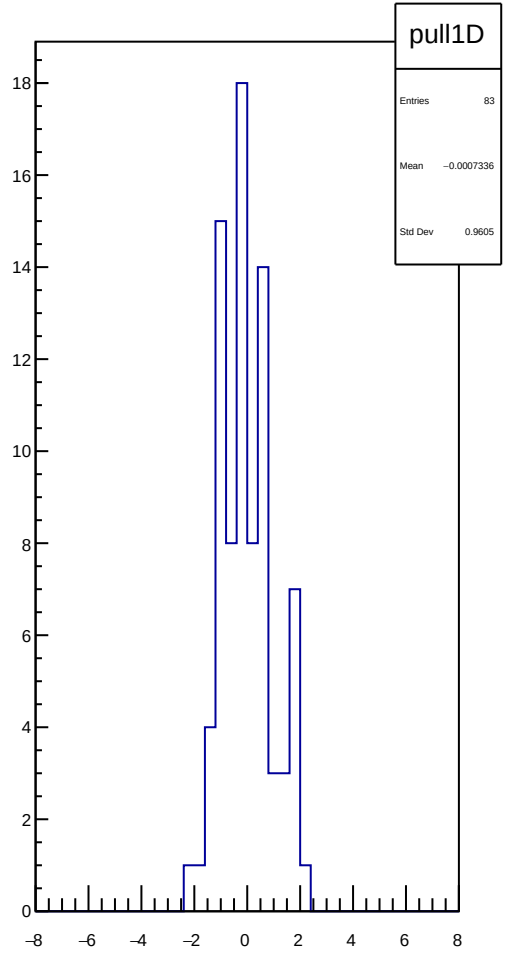

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1012 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

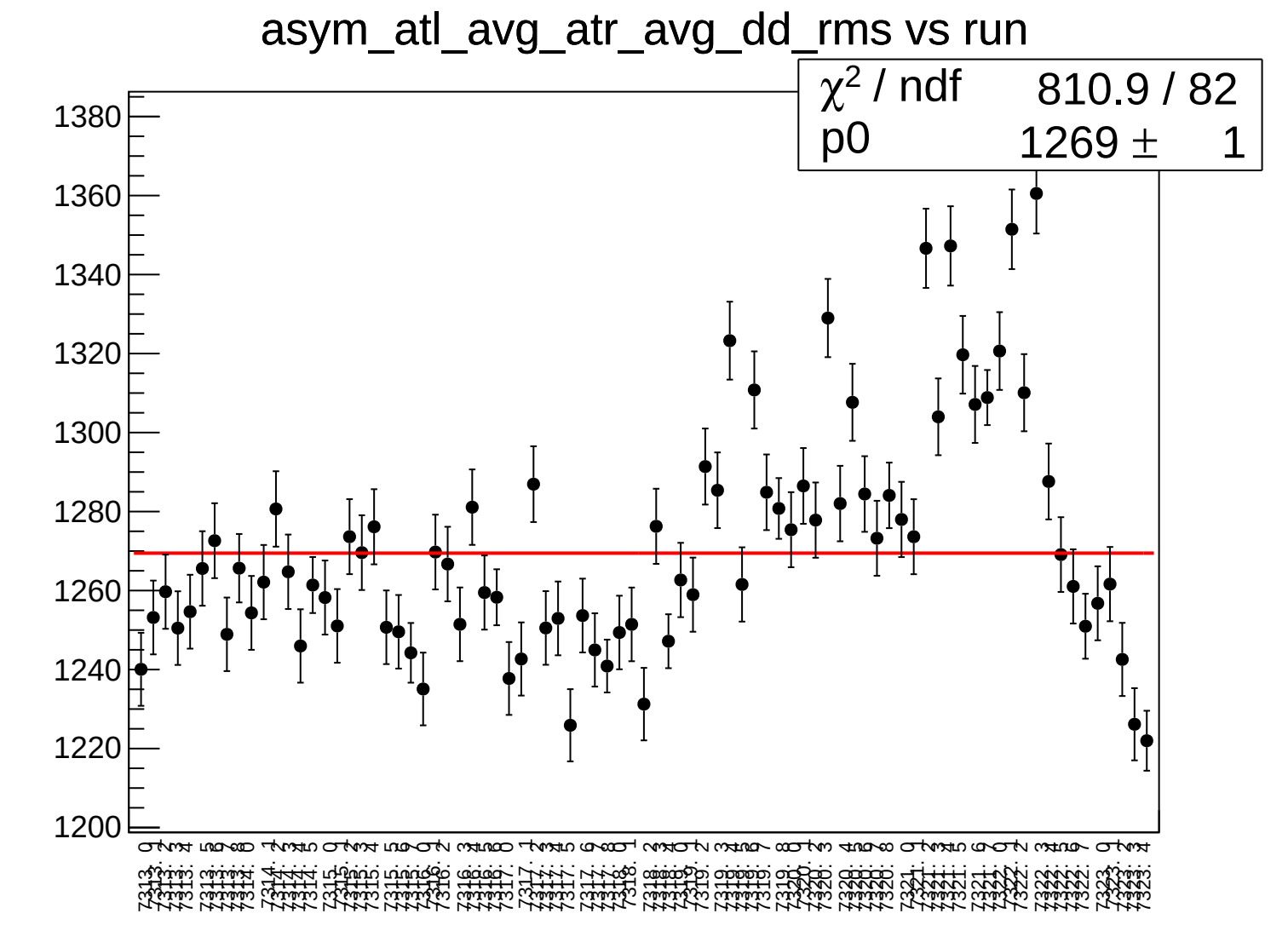

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.66 / 82
p0 47.82 ± 154.5
pull
Entries 83
Mean 24.1
Std Dev 48.48

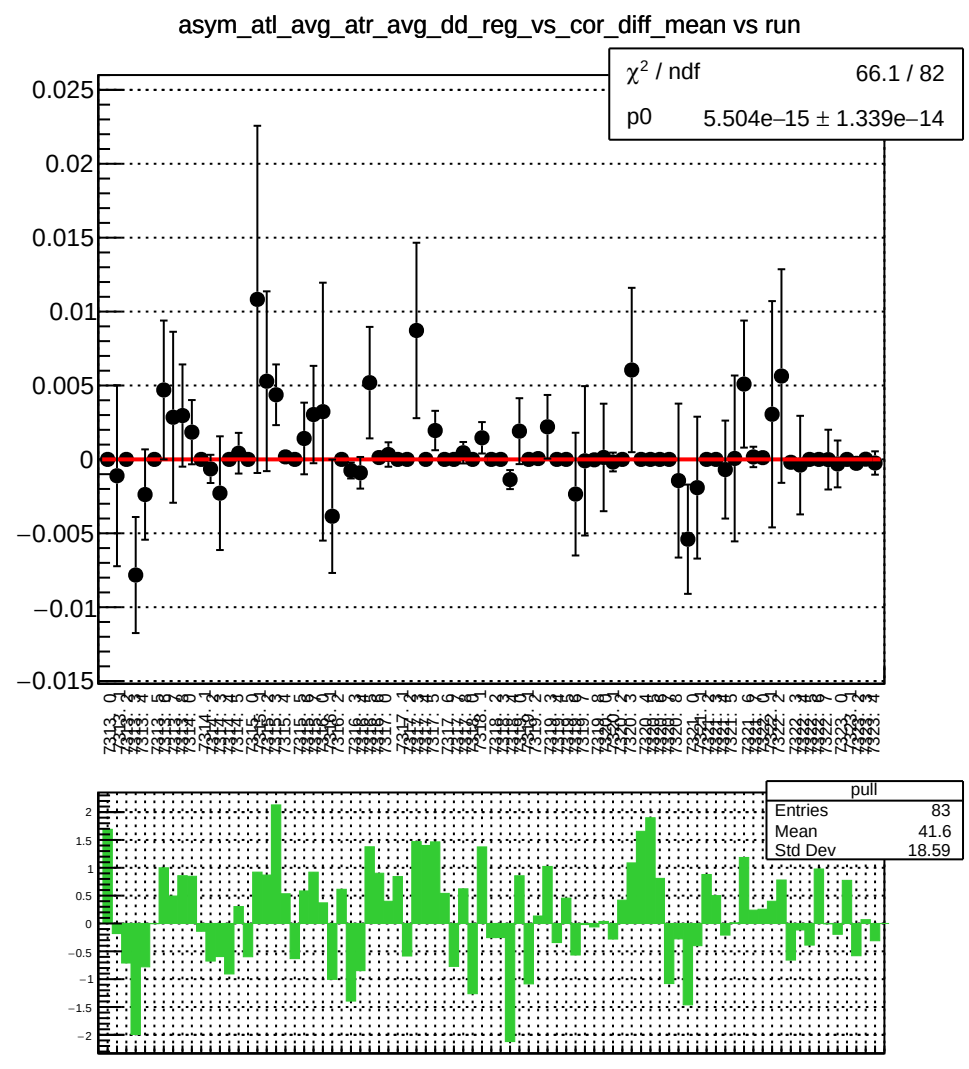

pull1D
Entries 83
Mean 0.01764
Std Dev 0.826

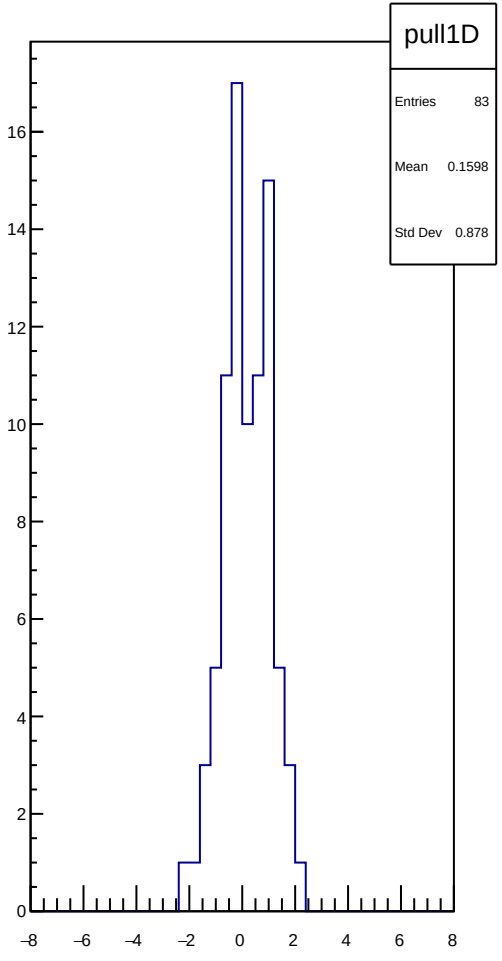

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3137 / 82
p0 138.6 ± 0.1093
150
145
140
135
130
125

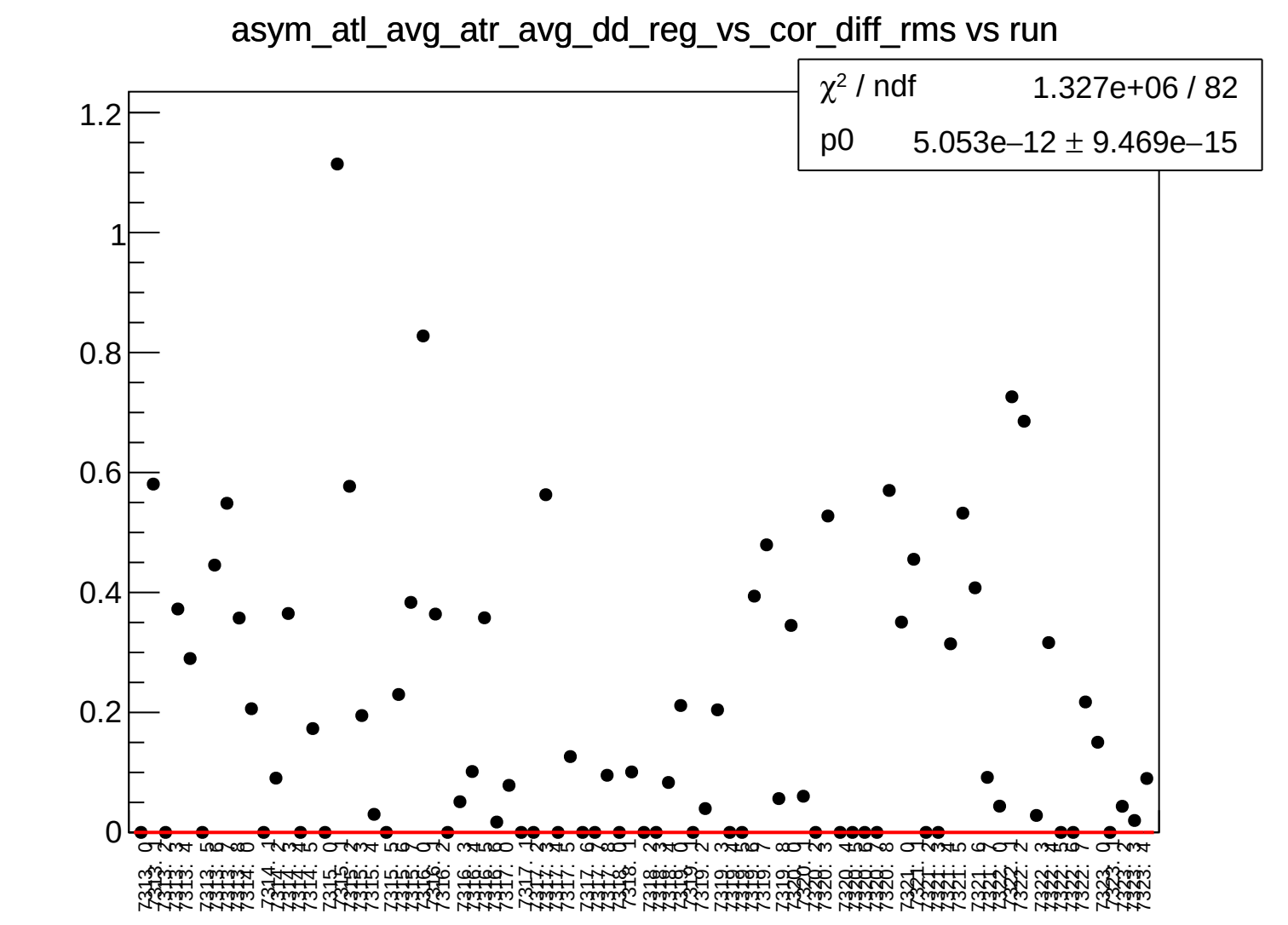

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.57 / 82
p0 1449 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −3077
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

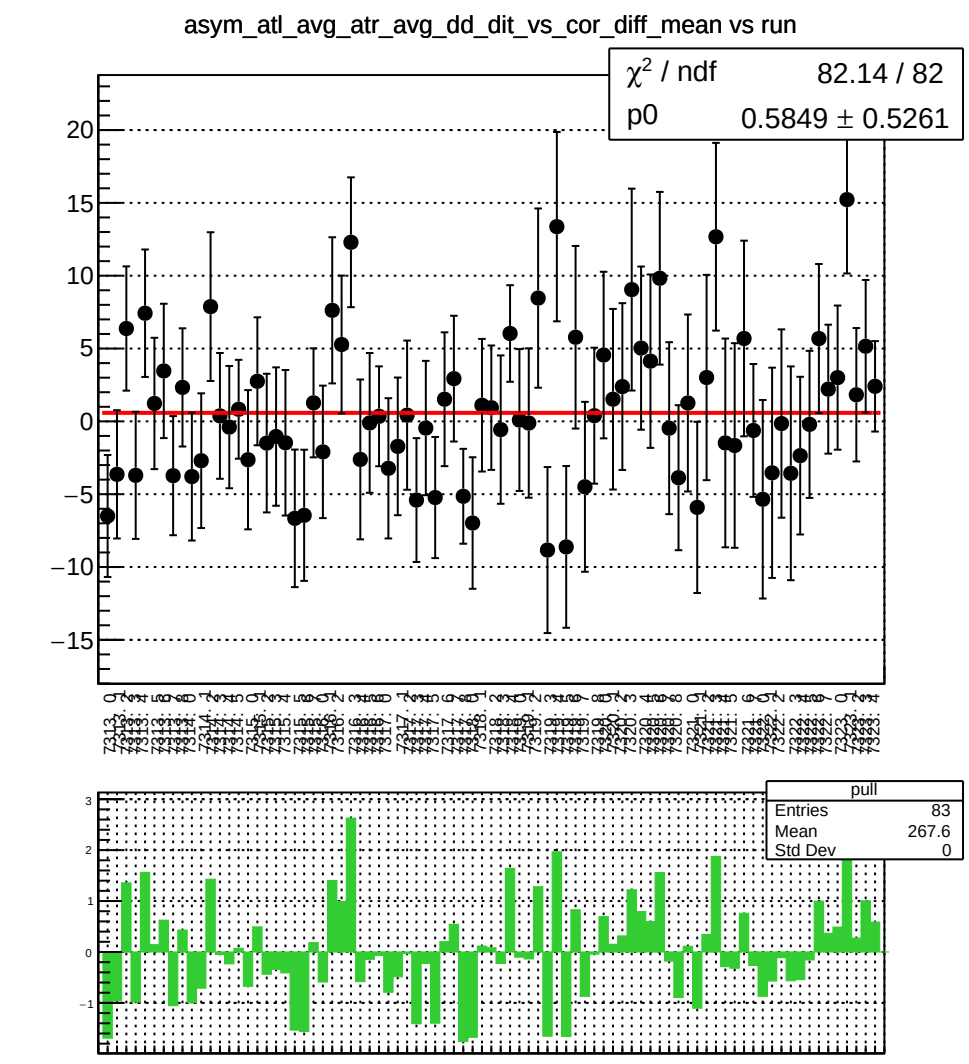

pull1D
Entries 83
Mean −0.0007336
Std Dev 0.9605
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

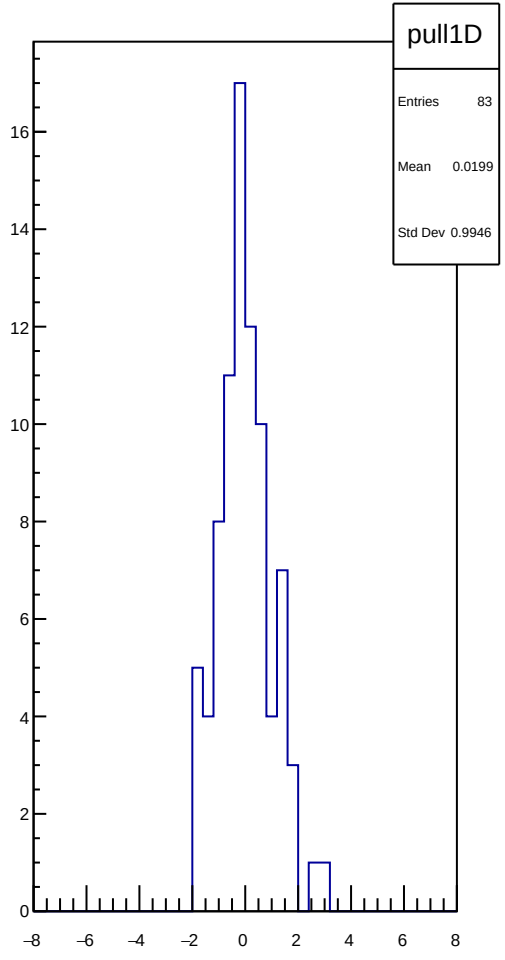

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 810.9 / 82
p0 1269 ± 1
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

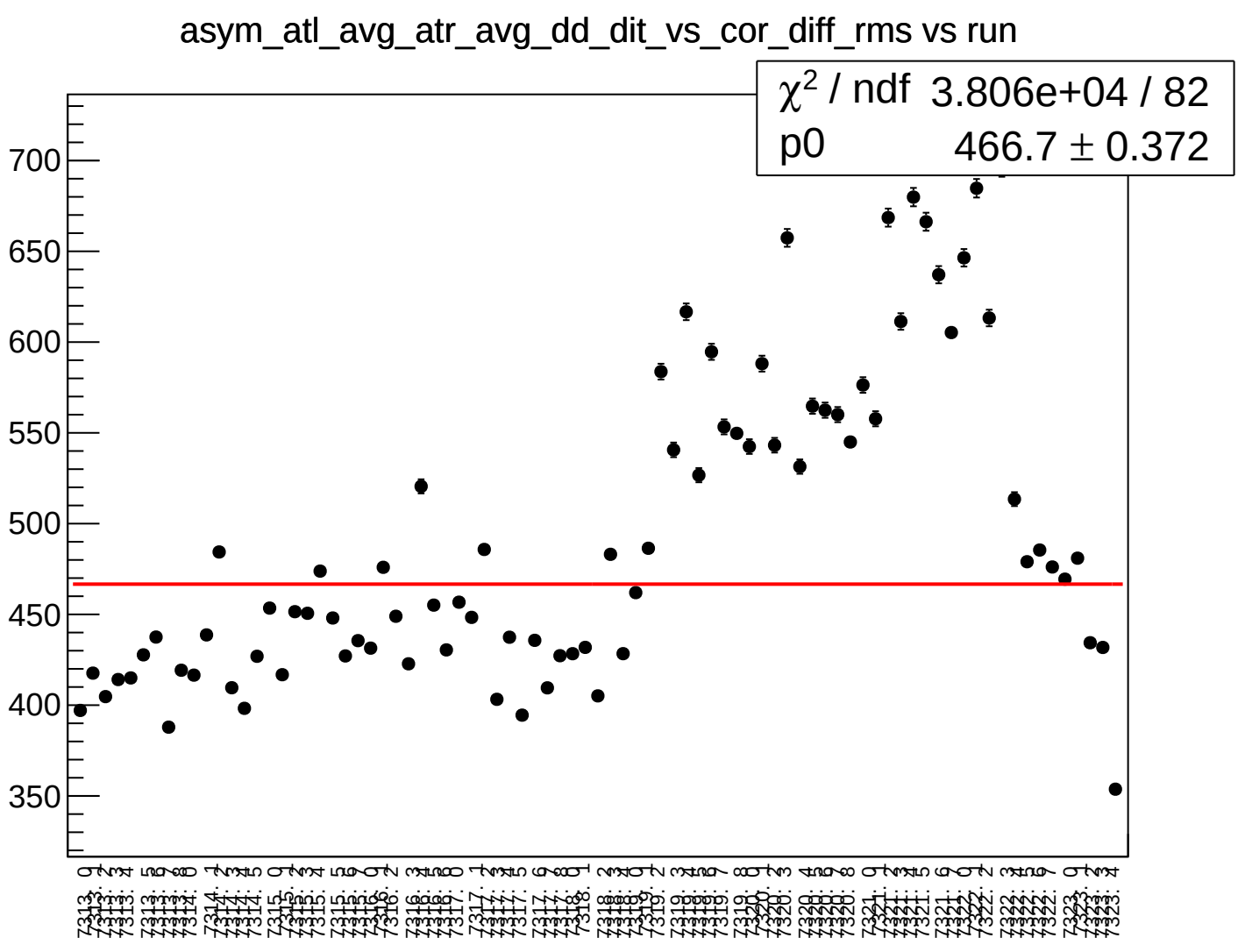

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.1 / 82
p0 5.504e−15 ± 1.339e−14
pull
Entries 83
Mean 41.6
Std Dev 18.59

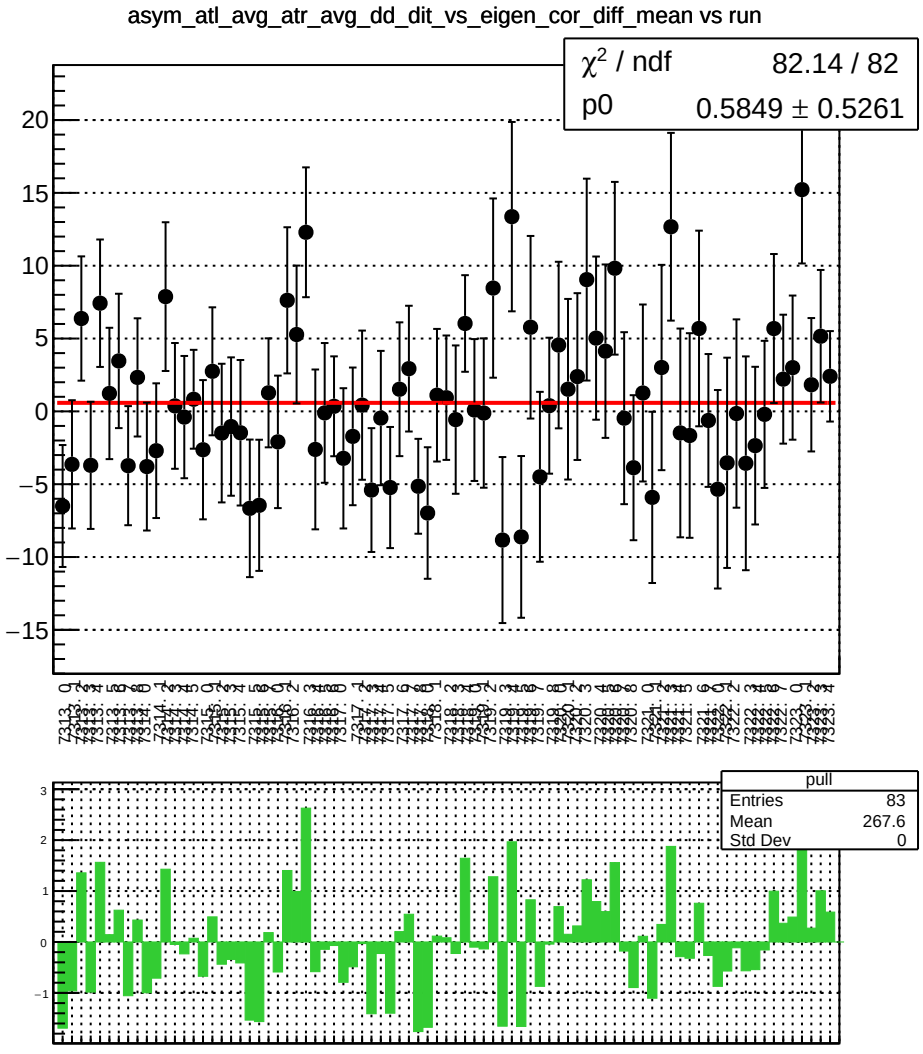

pull1D
Entries 83
Mean 0.1598
Std Dev 0.878

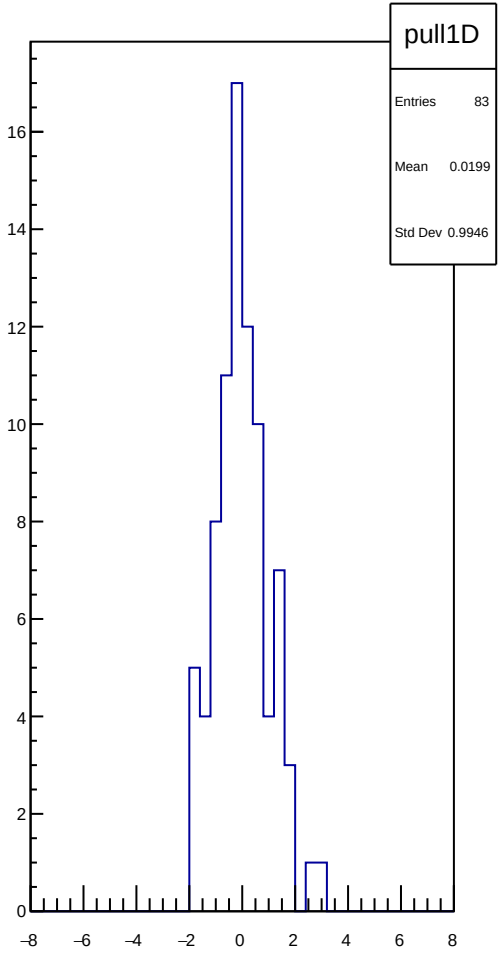

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.327e+06 / 82
p0 5.053e−12 ± 9.469e−15
1.2
1
0.8
0.6
0.4
0.2
0

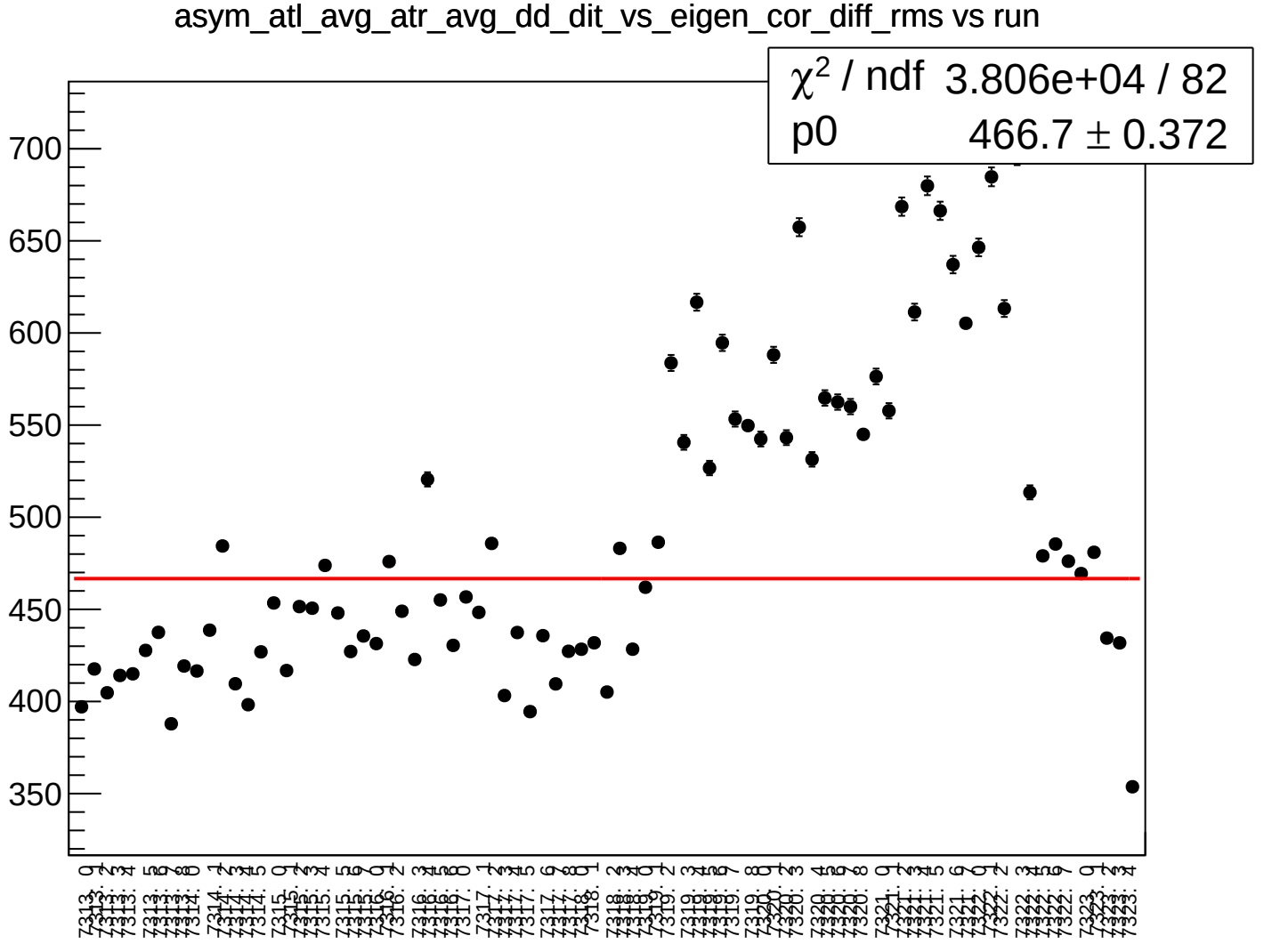

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0

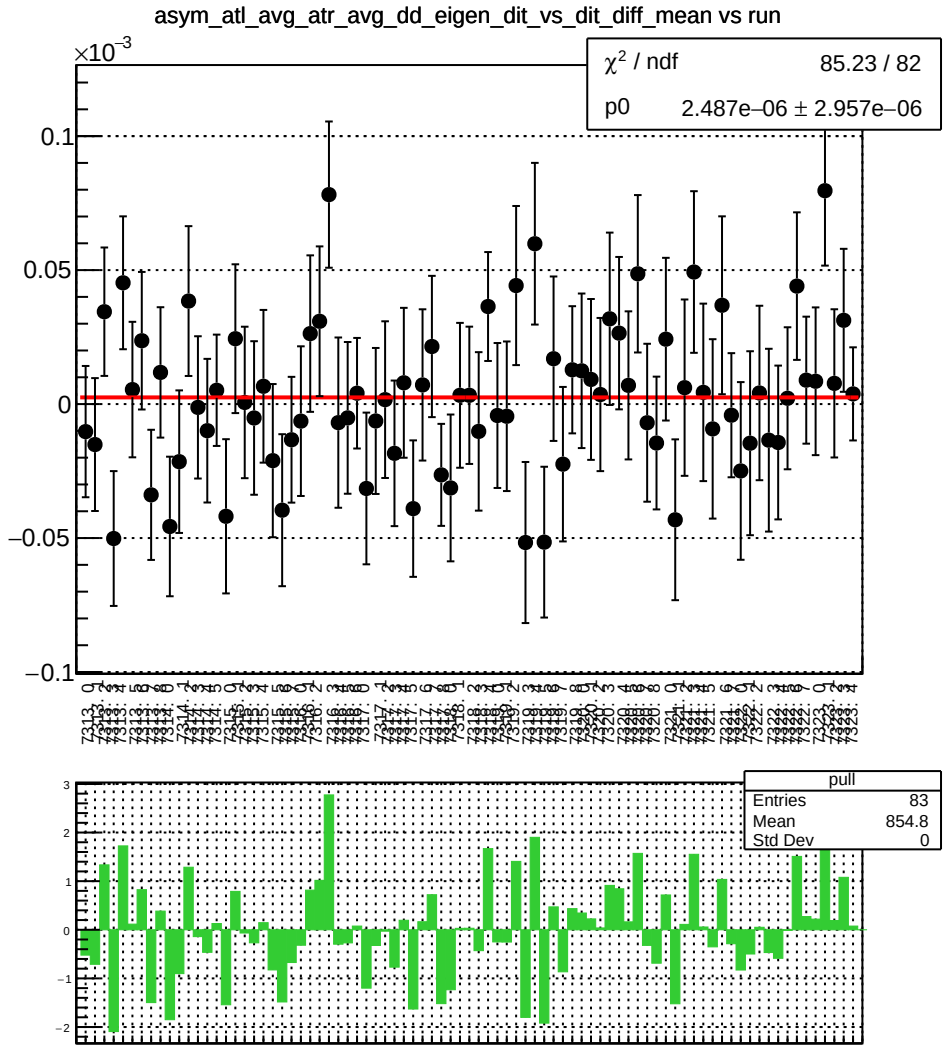

pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

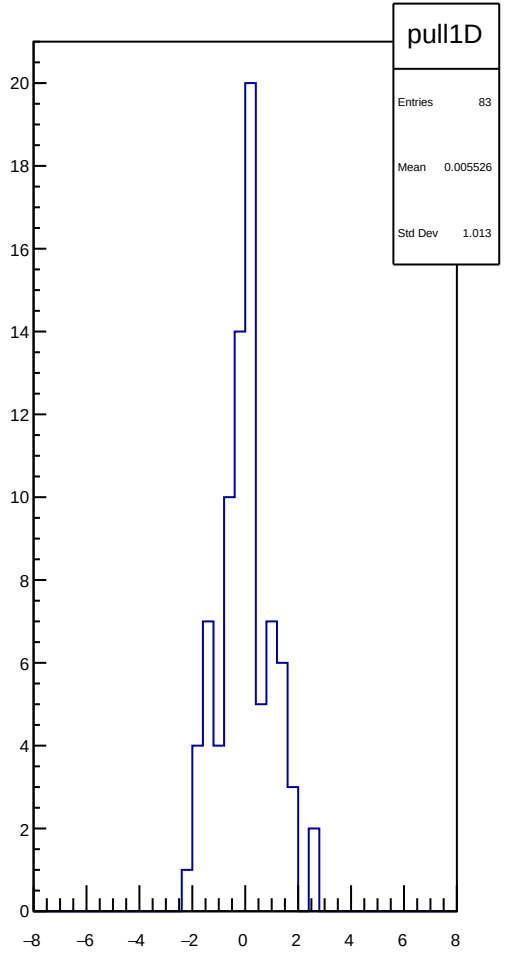

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

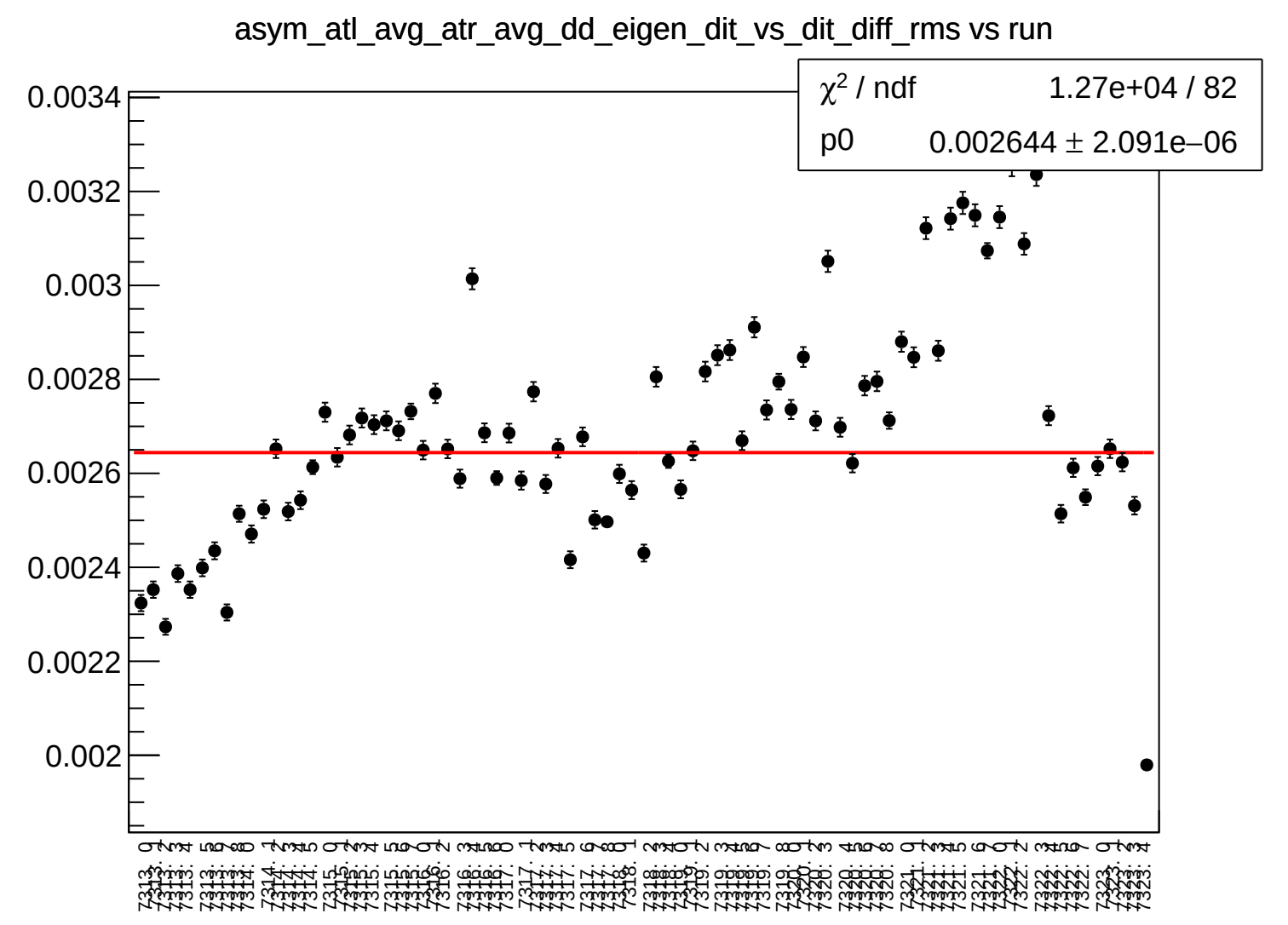

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0

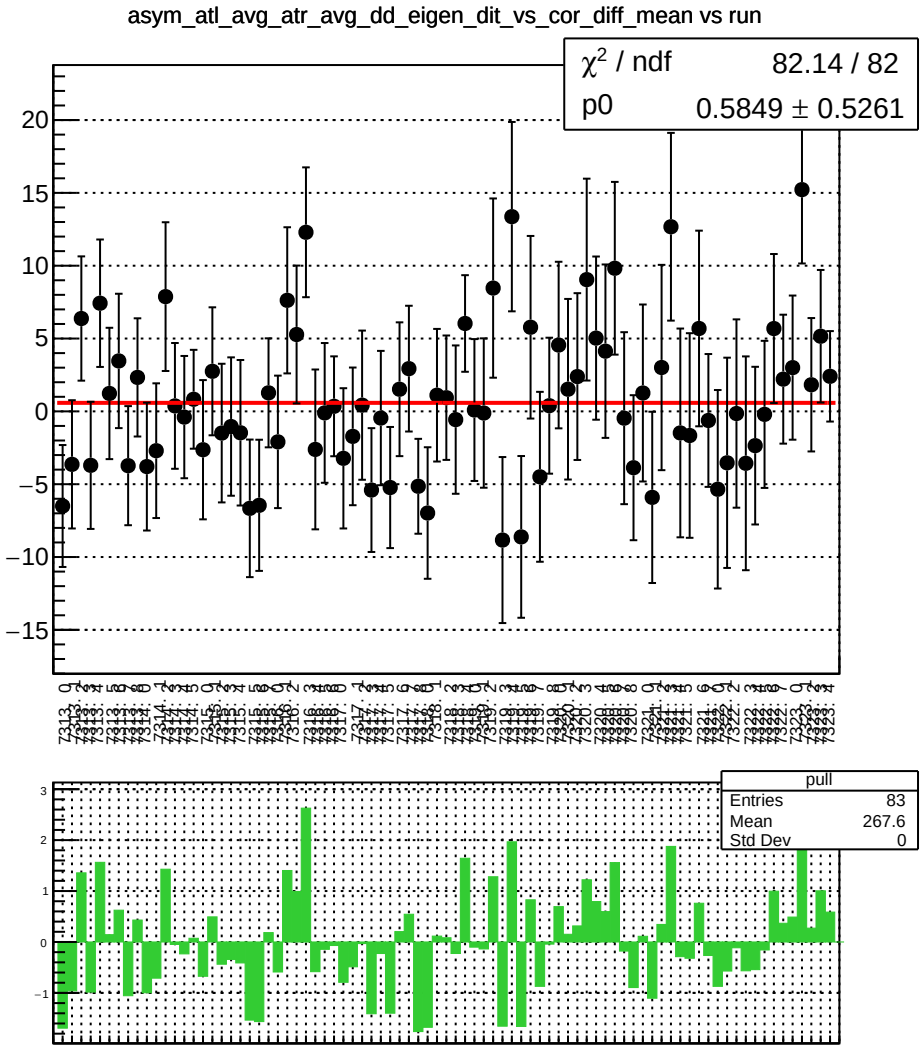

pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

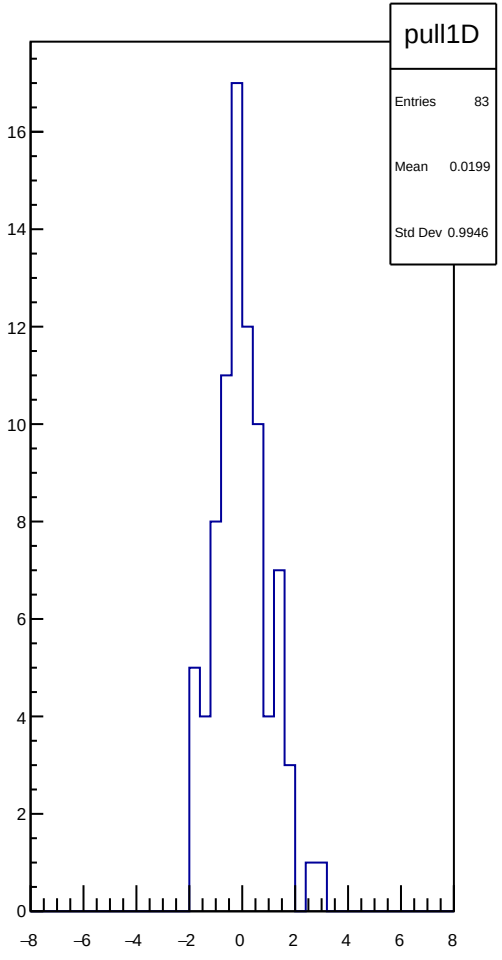

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

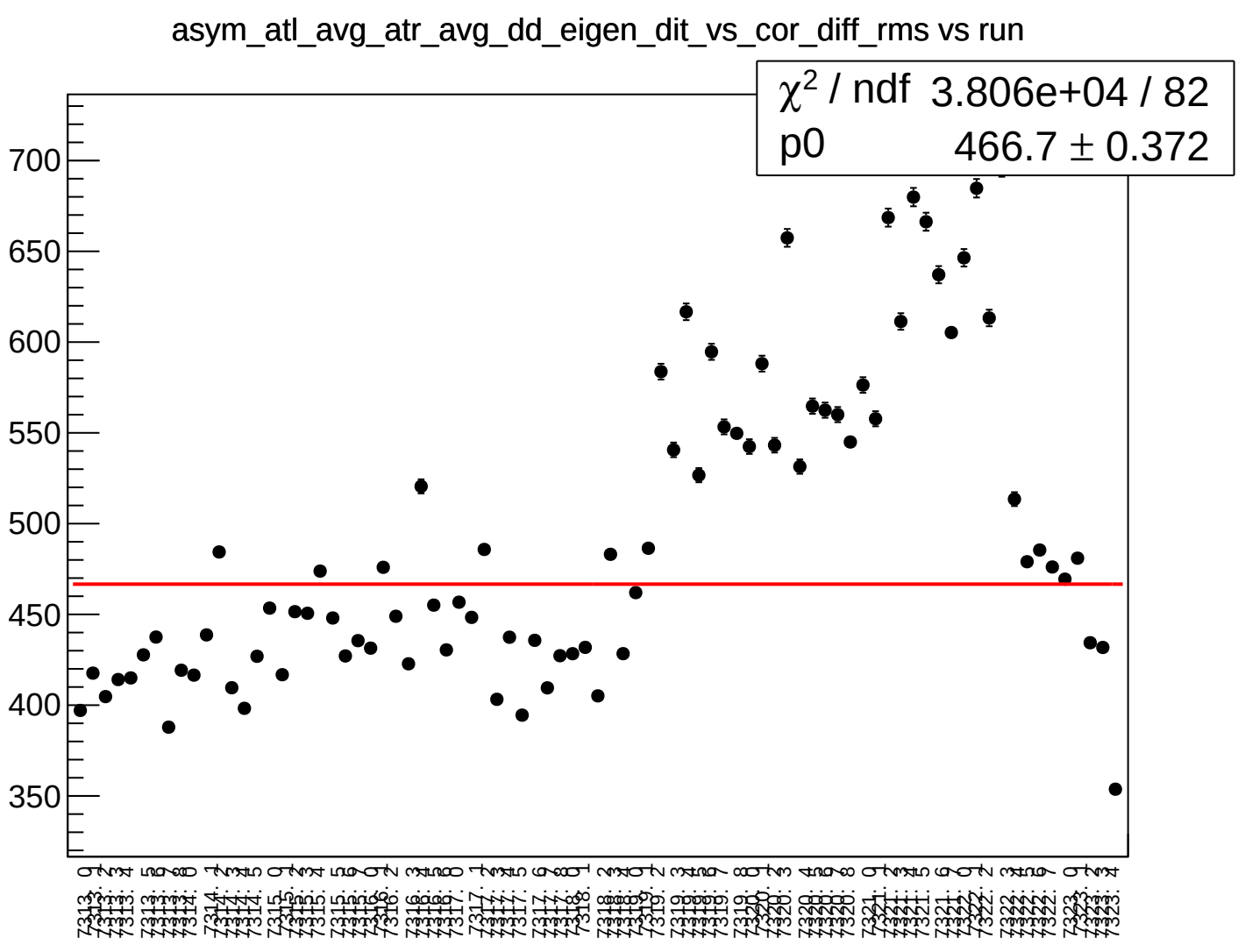

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.23 / 82
p0 2.487e−06 ± 2.957e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean 854.8
Std Dev 0
3
2
1
0
−1
−2

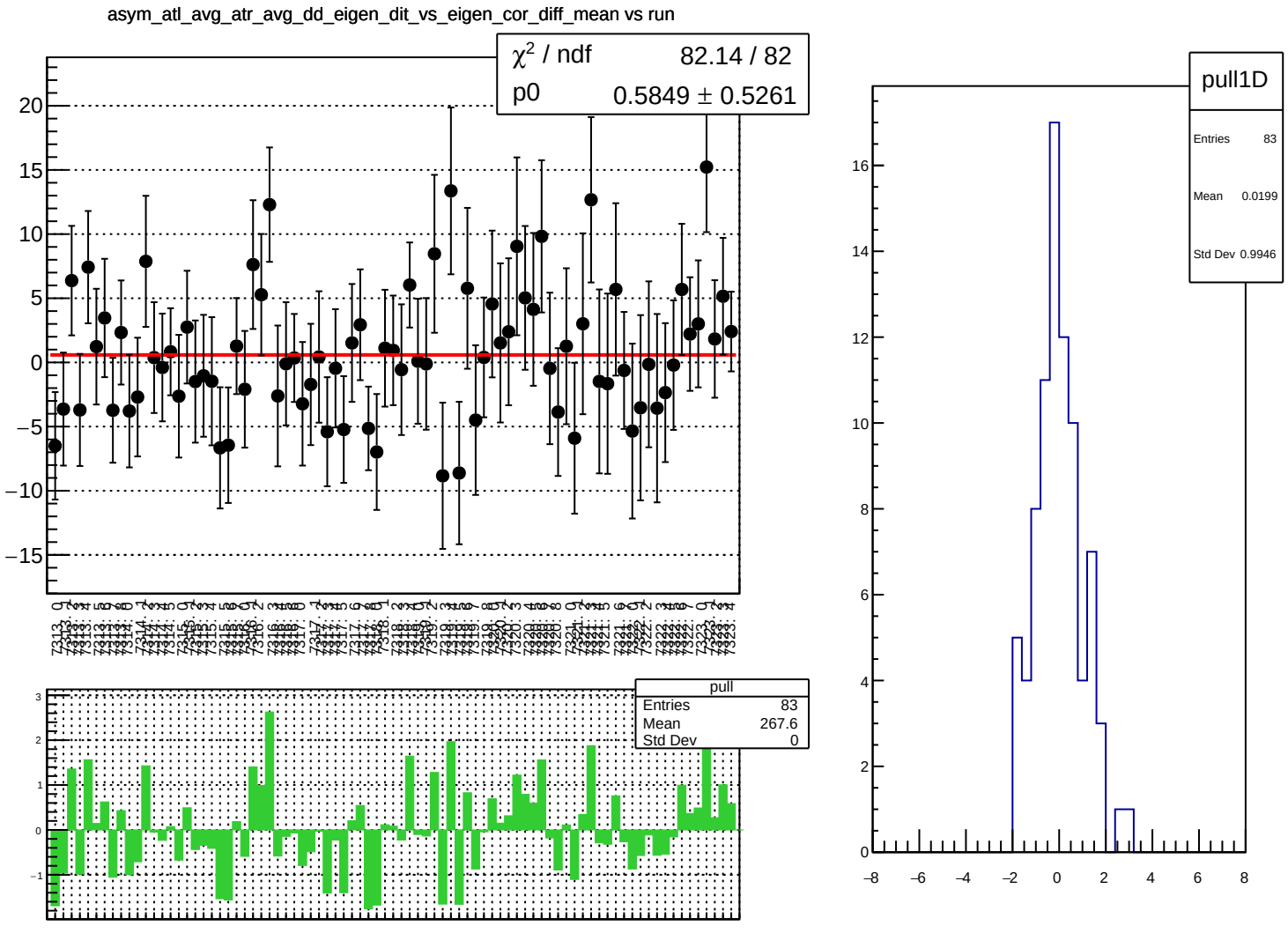

pull1D
Entries 83
Mean 0.005526
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

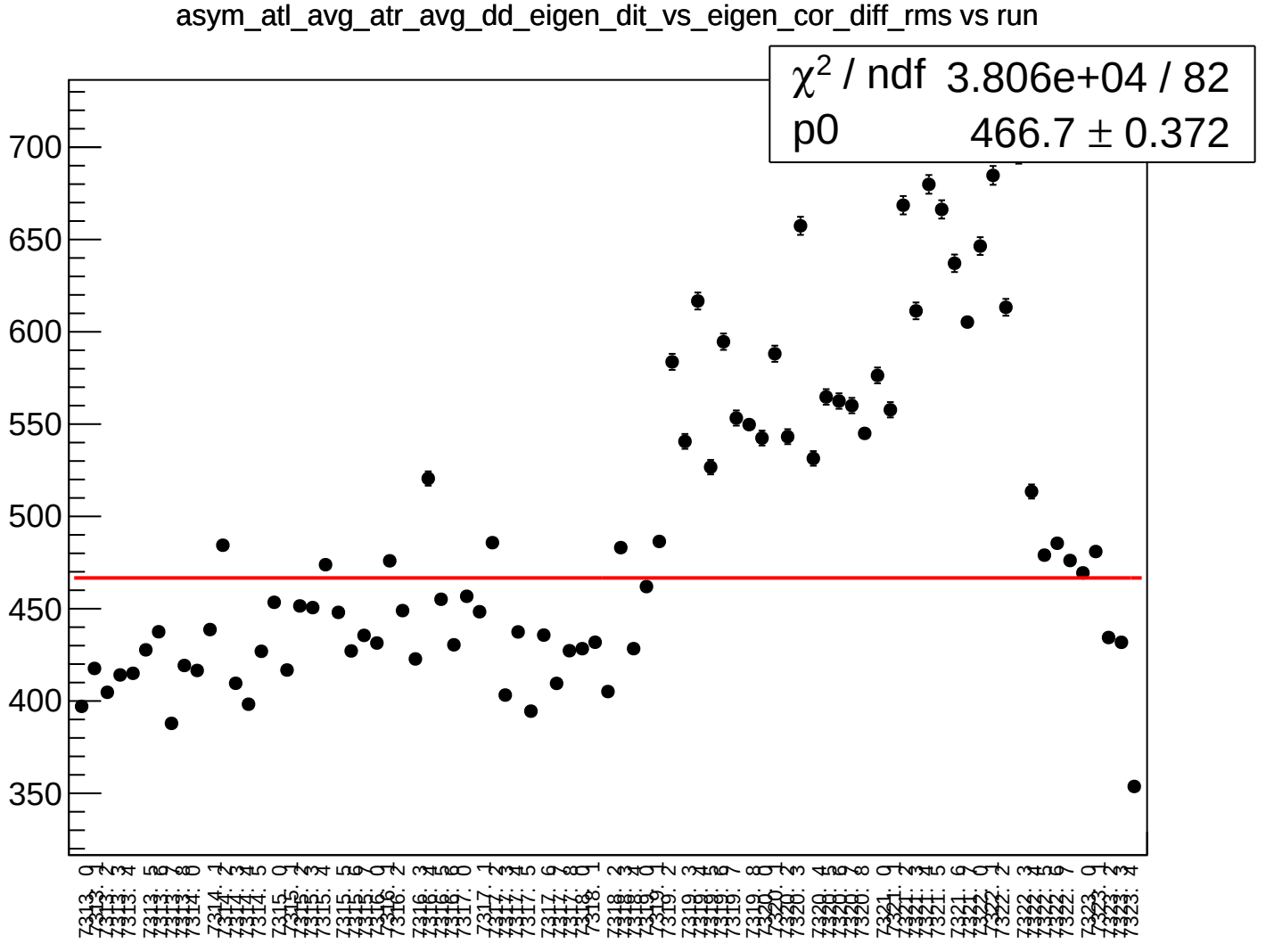

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.27e+04 / 82
p0 0.002644 ± 2.091e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

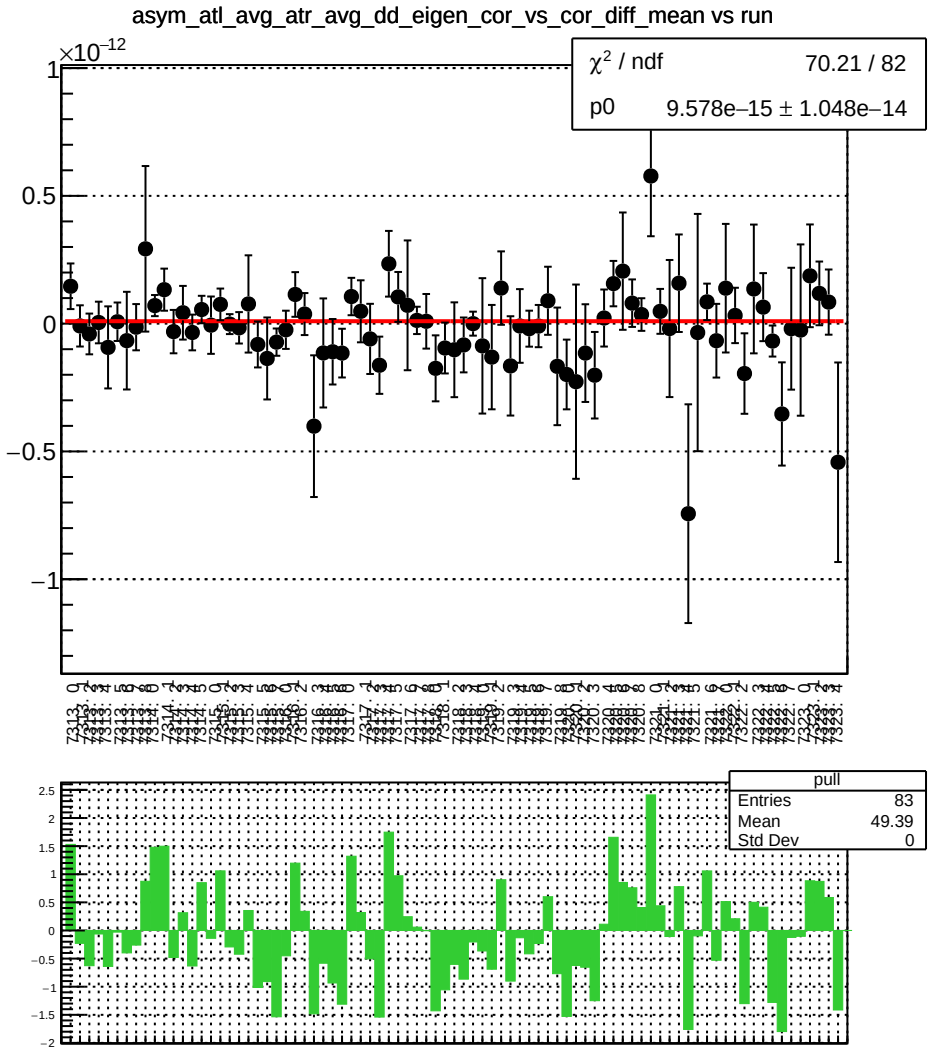

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0

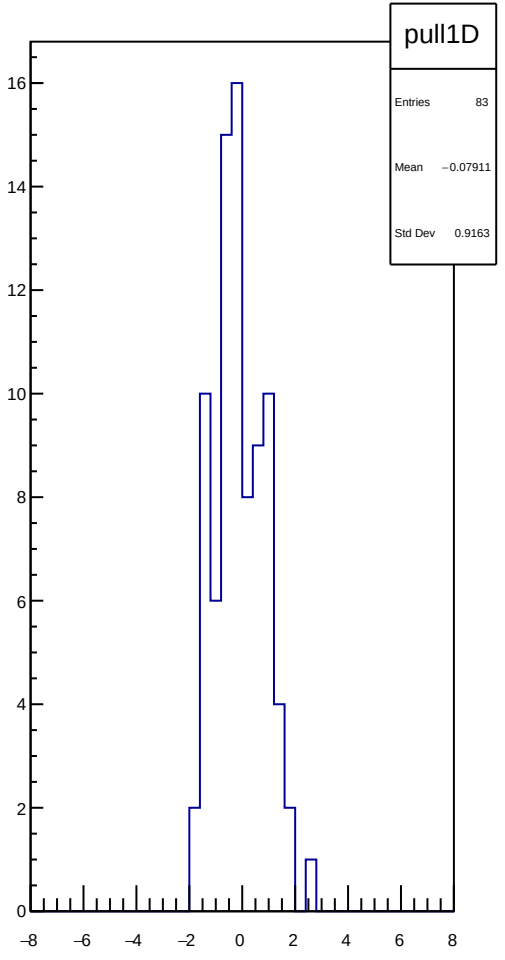

pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

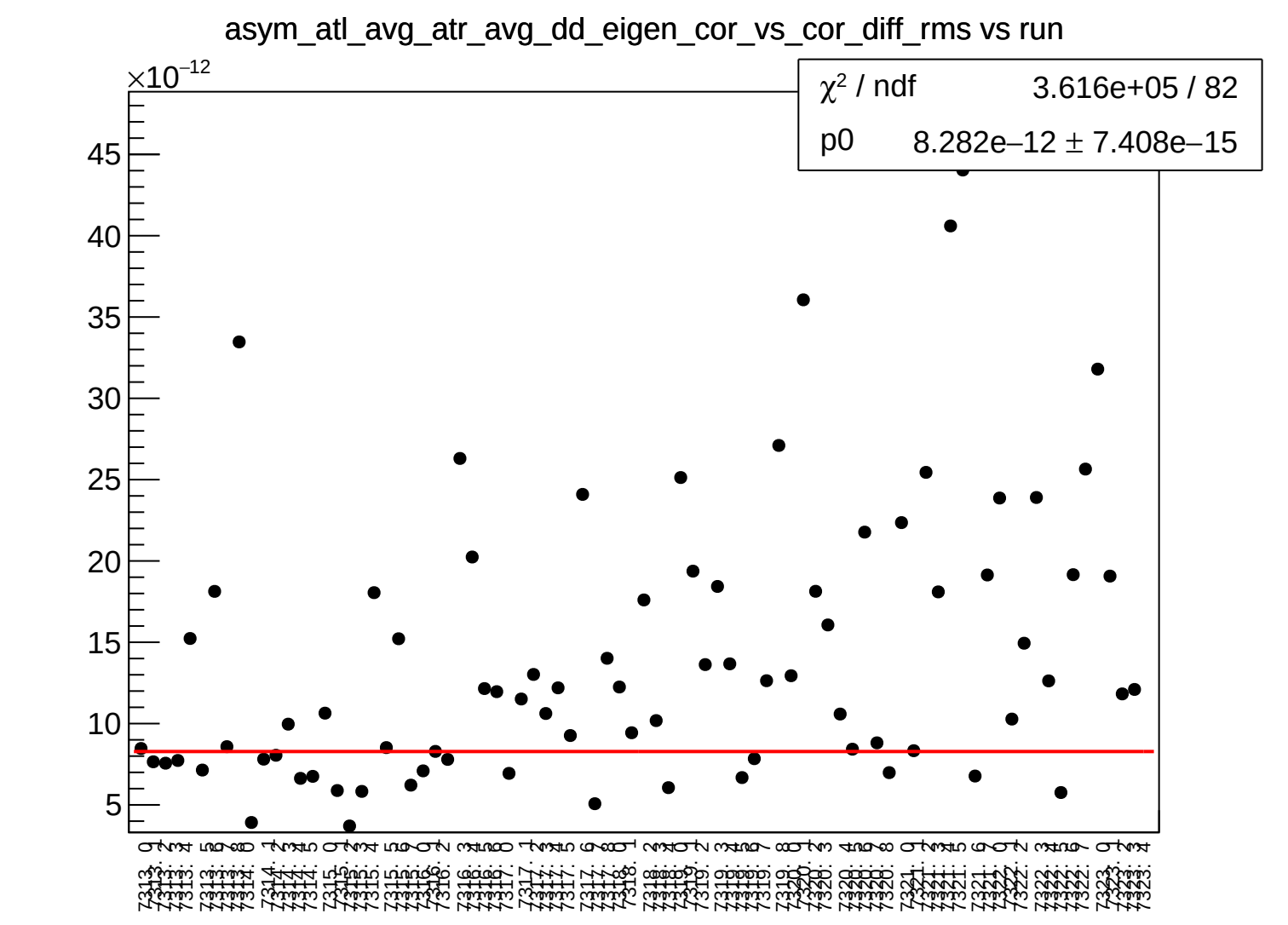

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

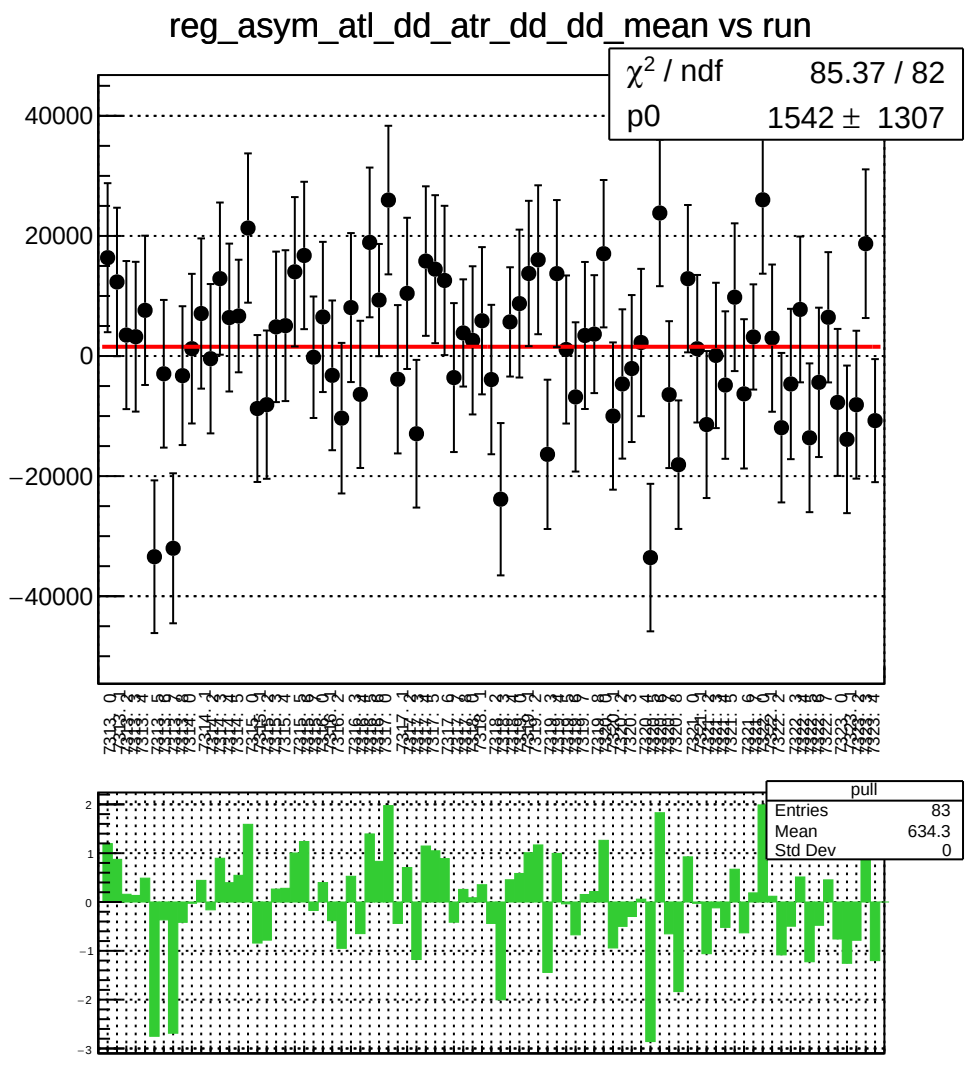

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0
pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

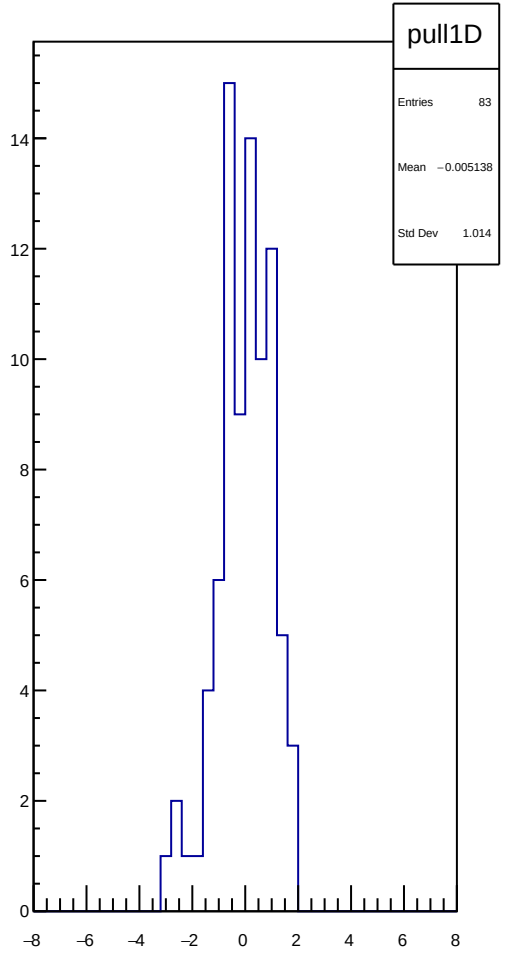

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

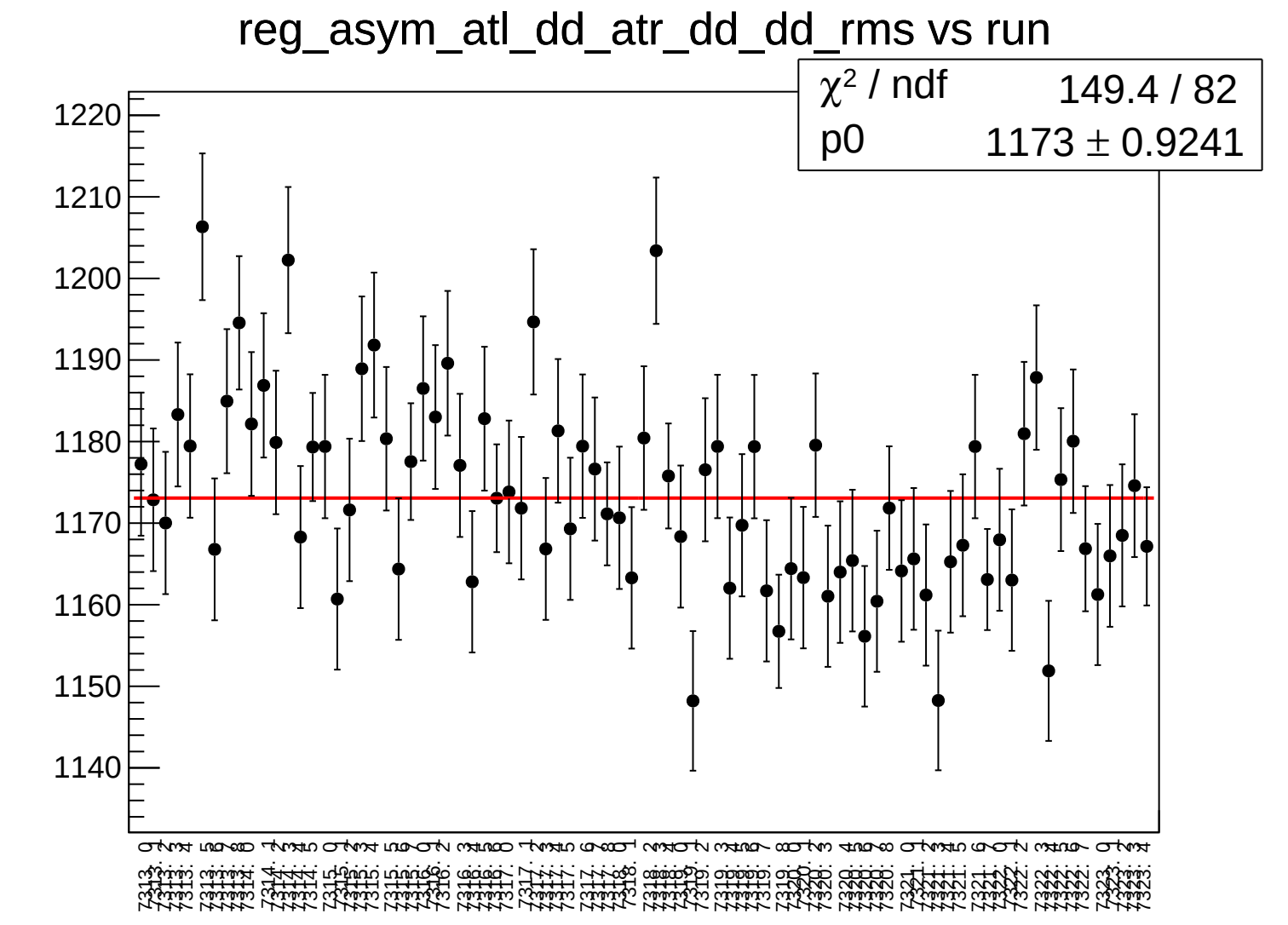

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.21 / 82
p0 9.578e−15 ± 1.048e−14
pull
Entries 83
Mean 49.39
Std Dev 0

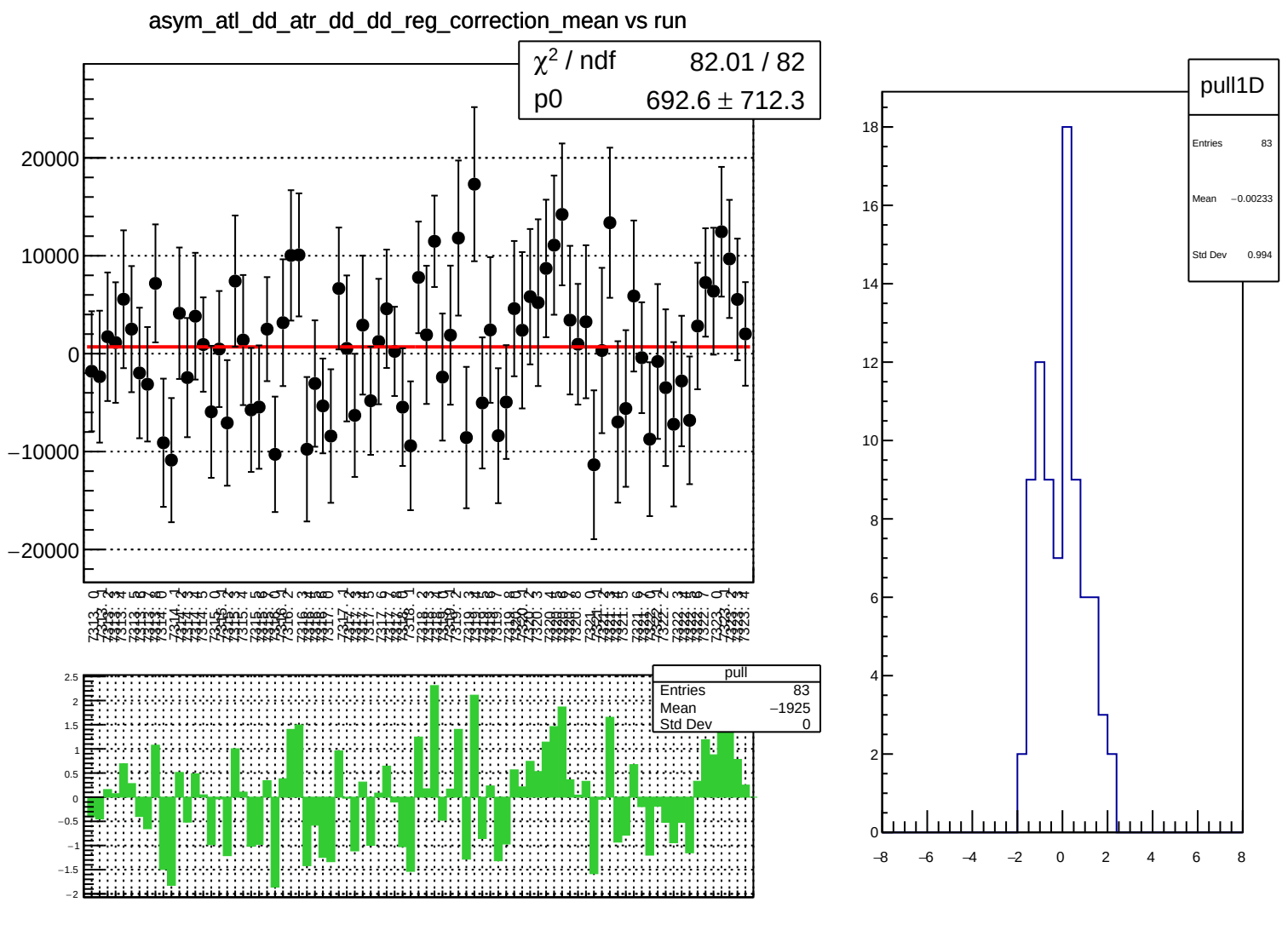

pull1D
Entries 83
Mean −0.07911
Std Dev 0.9163

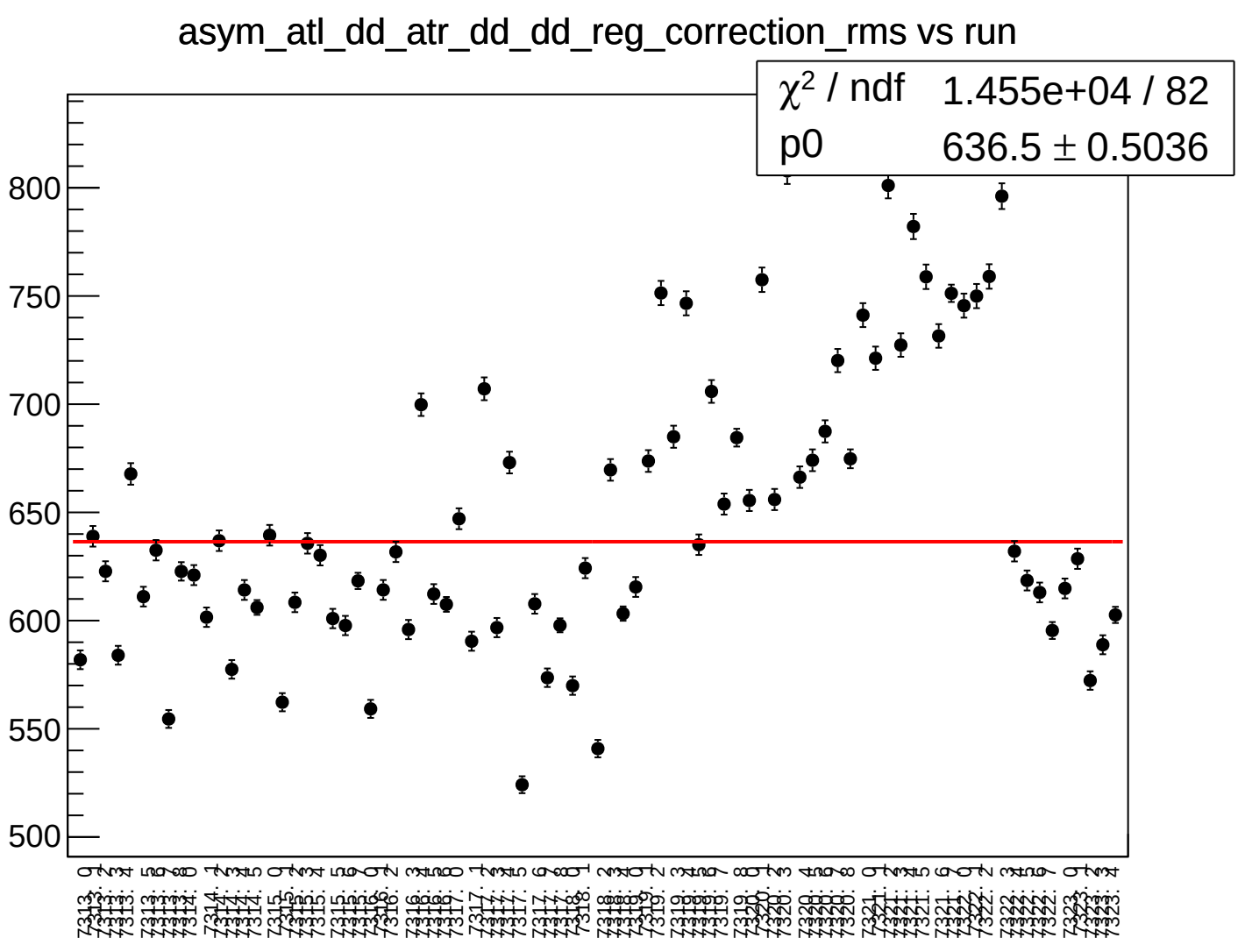

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.616e+05 / 82
p0 8.282e−12 ± 7.408e−15
45
40
35
30
25
20
15
10
5

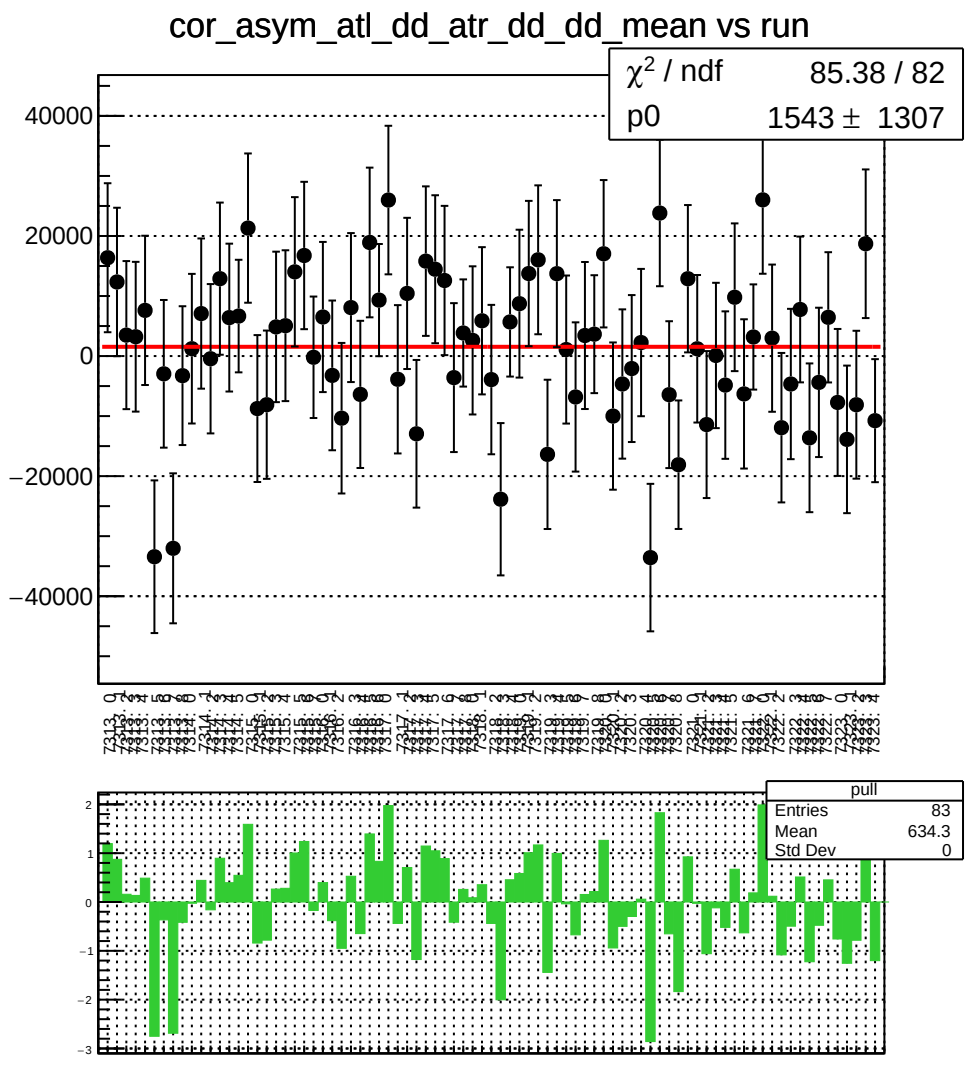

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.37 / 82
p0 1542 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 634.3
Std Dev 0
2
1
0
−1
−2
−3

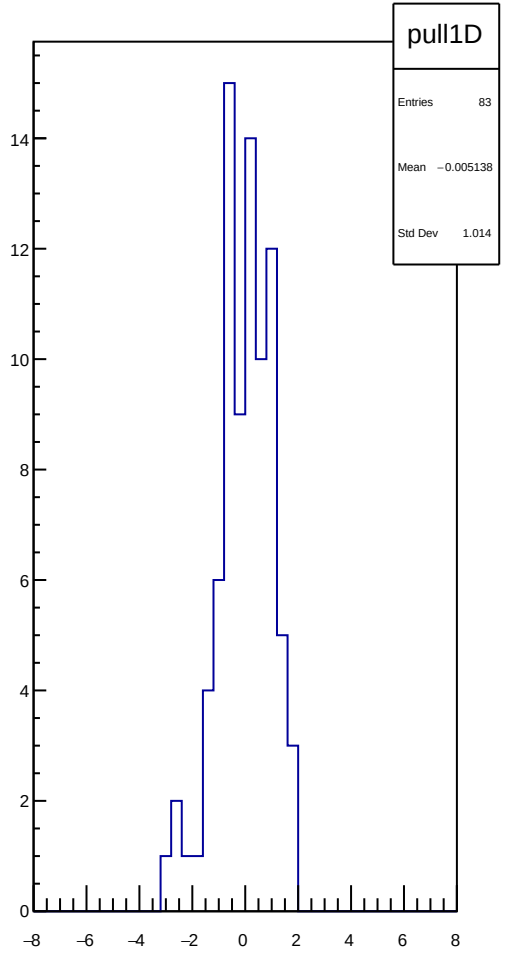

pull1D
Entries 83
Mean −0.005138
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

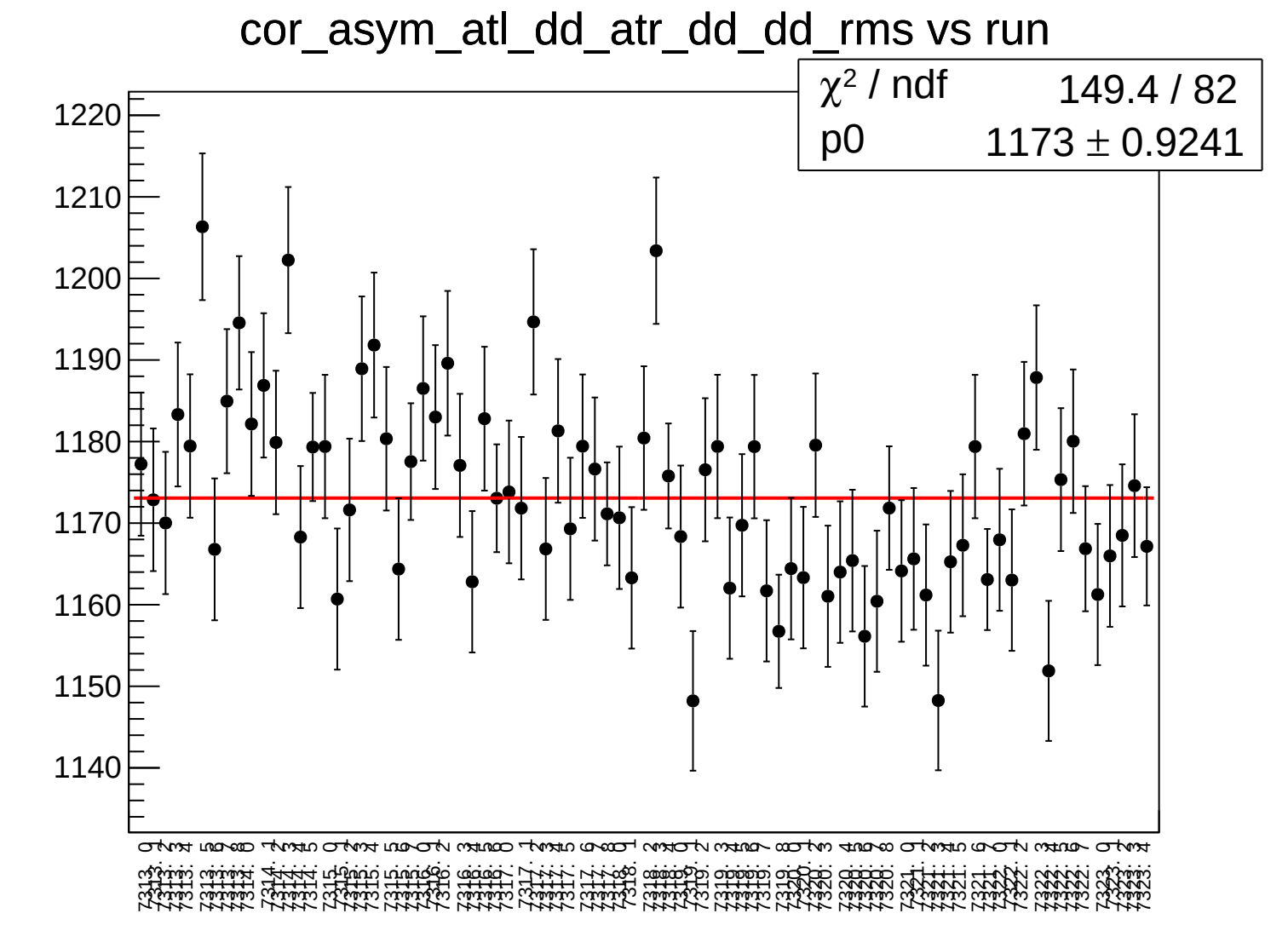

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 149.4 / 82
p0 1173 ± 0.9241
1220
1210
1200
1190
1180
1170
1160
1150
1140

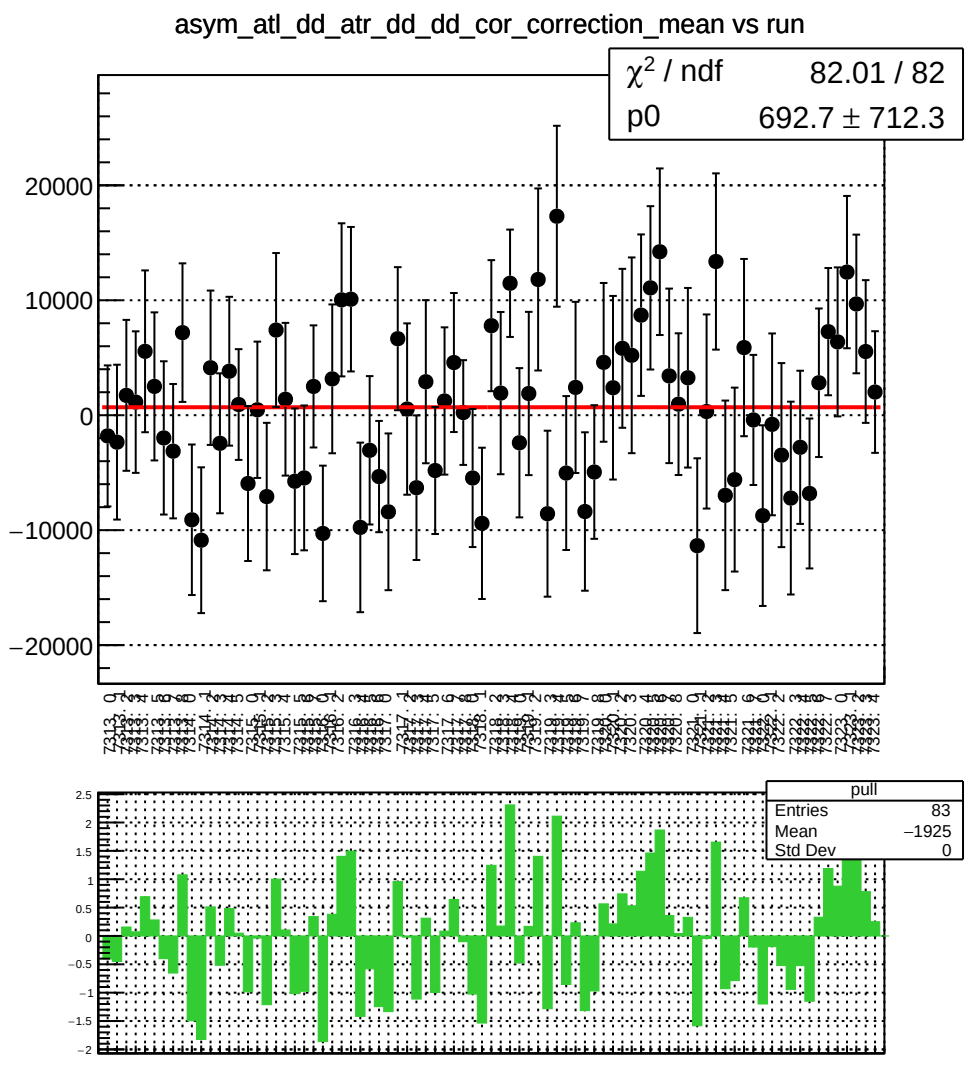

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 82.01 / 82
p0 692.6 ± 712.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1925
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean −0.00233
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

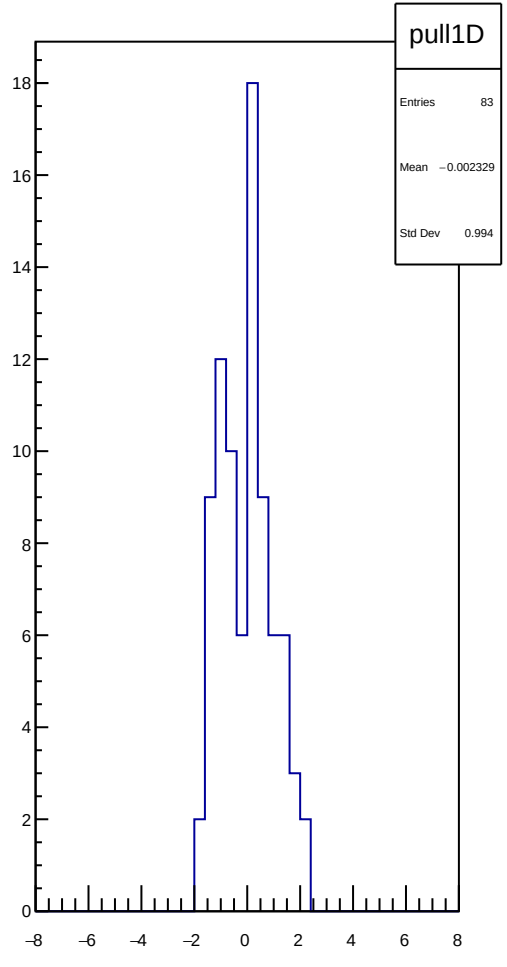

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.455e+04 / 82
p0 636.5 ± 0.5036
800
750
700
650
600
550
500

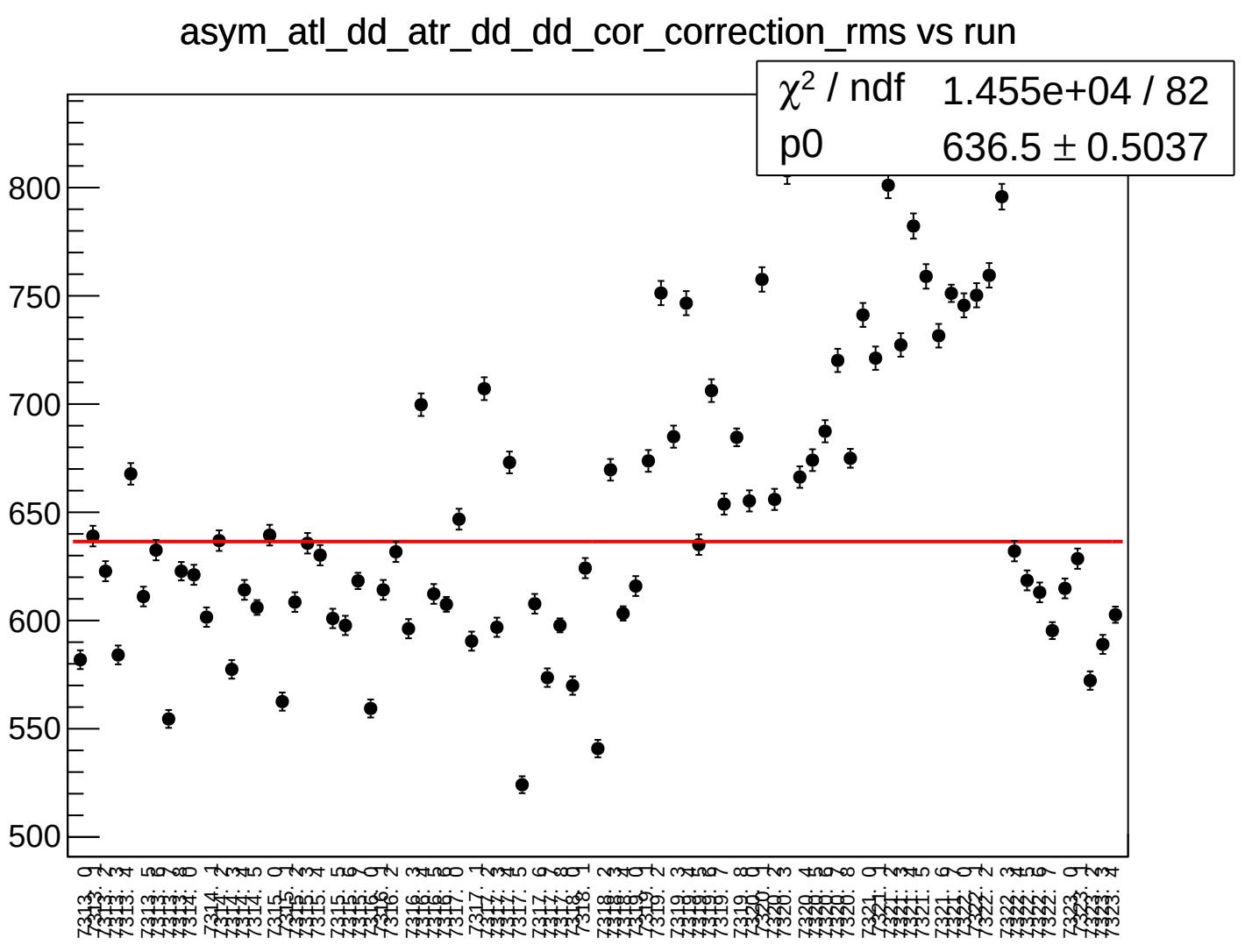

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.38 / 82
p0 1543 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 634.3
Std Dev 0
2
1
0
−1
−2
−3

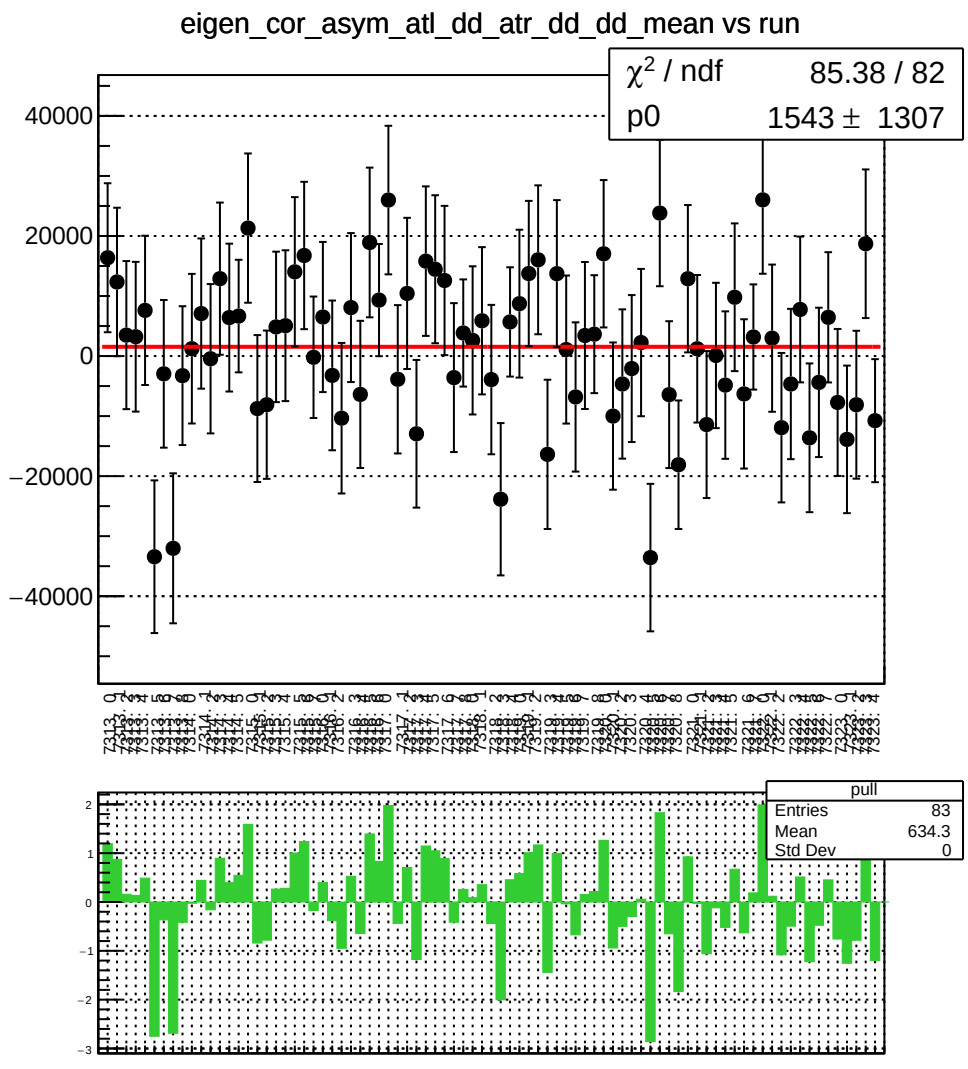

pull1D
Entries 83
Mean −0.005138
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

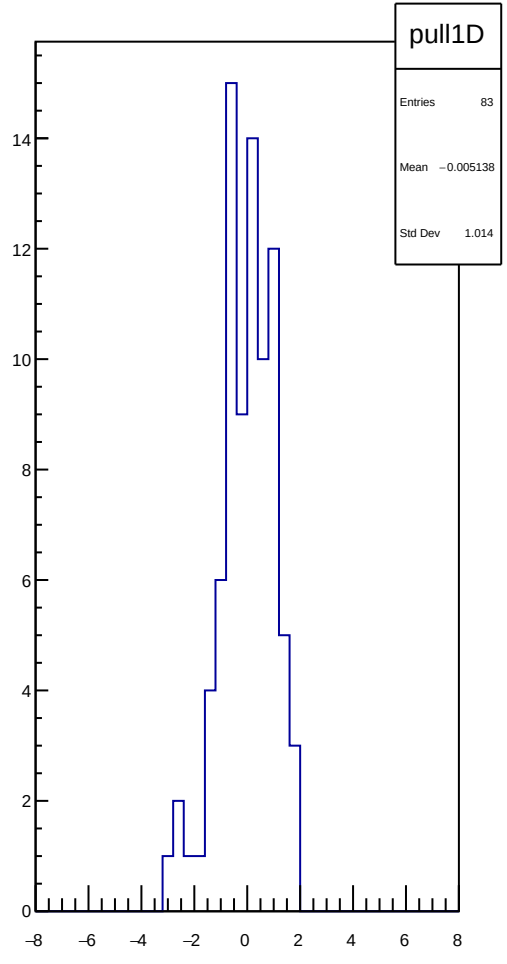

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 149.4 / 82
p0 1173 ± 0.9241
1220
1210
1200
1190
1180
1170
1160
1150
1140

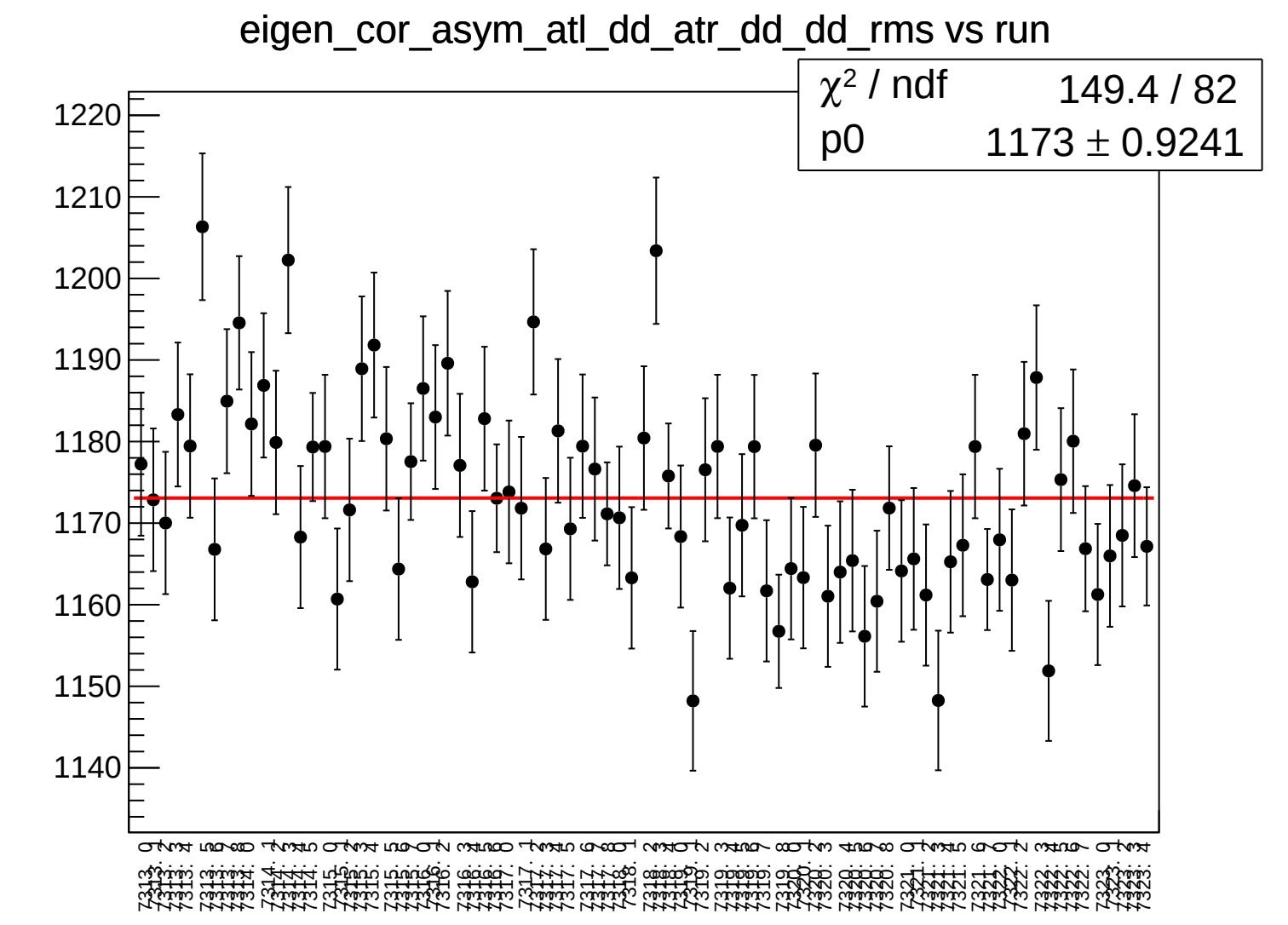

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 82.01 / 82
p0 692.7 ± 712.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1925
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

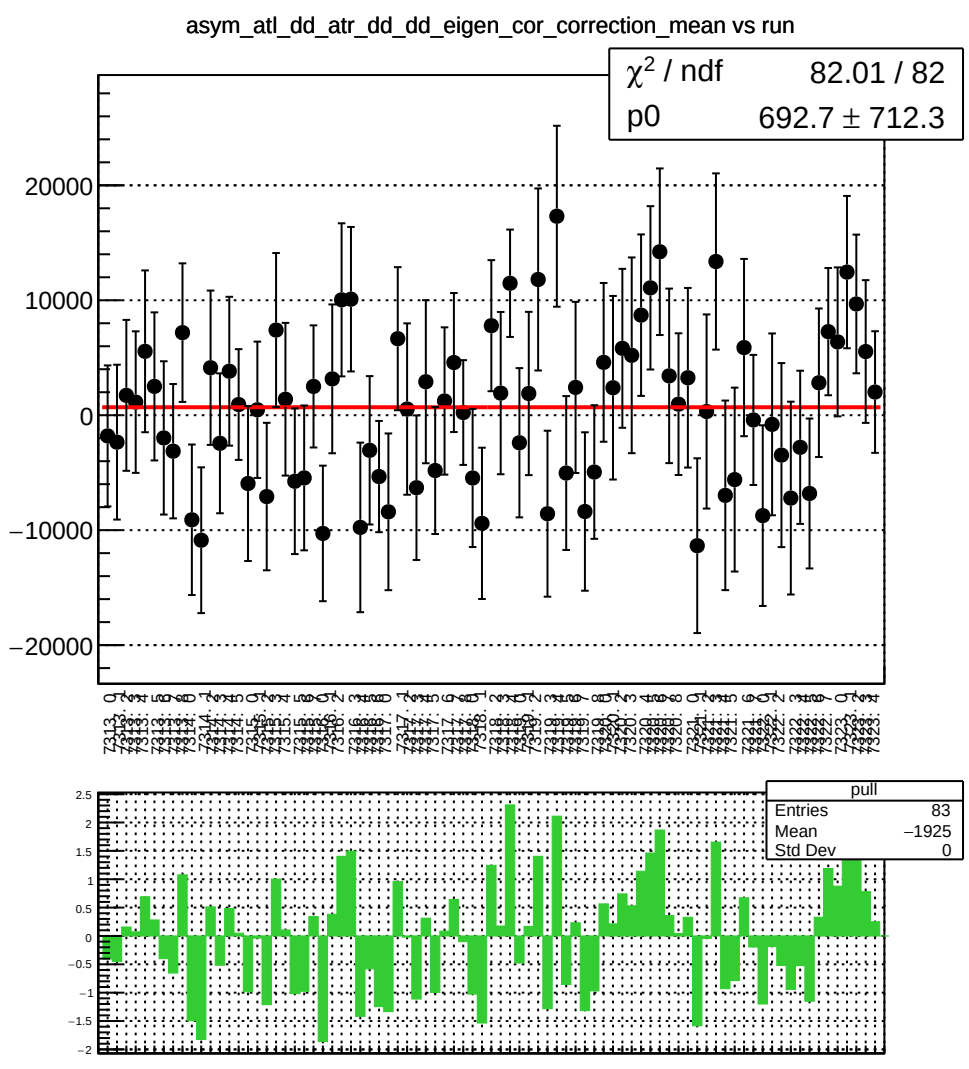

pull1D
Entries 83
Mean −0.002329
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

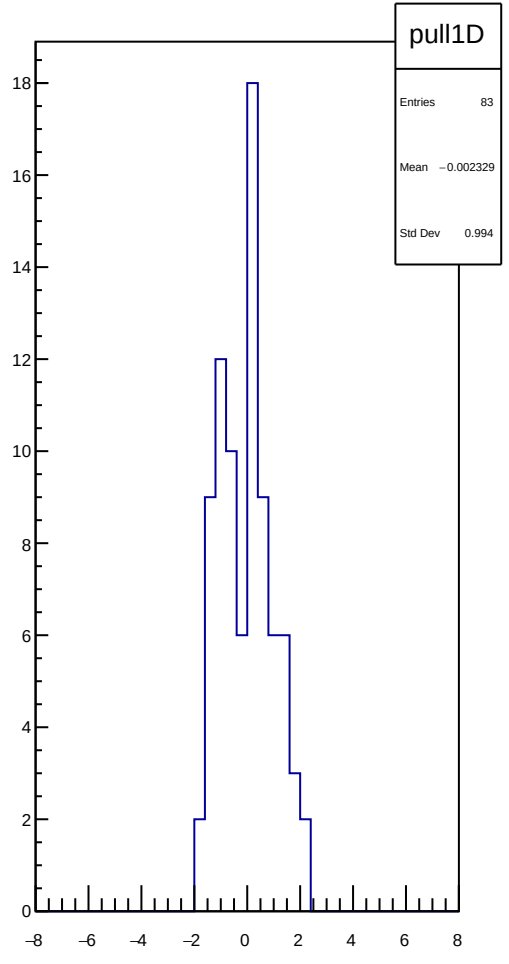

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 82
p0 636.5 ± 0.5037
800
750
700
650
600
550
500

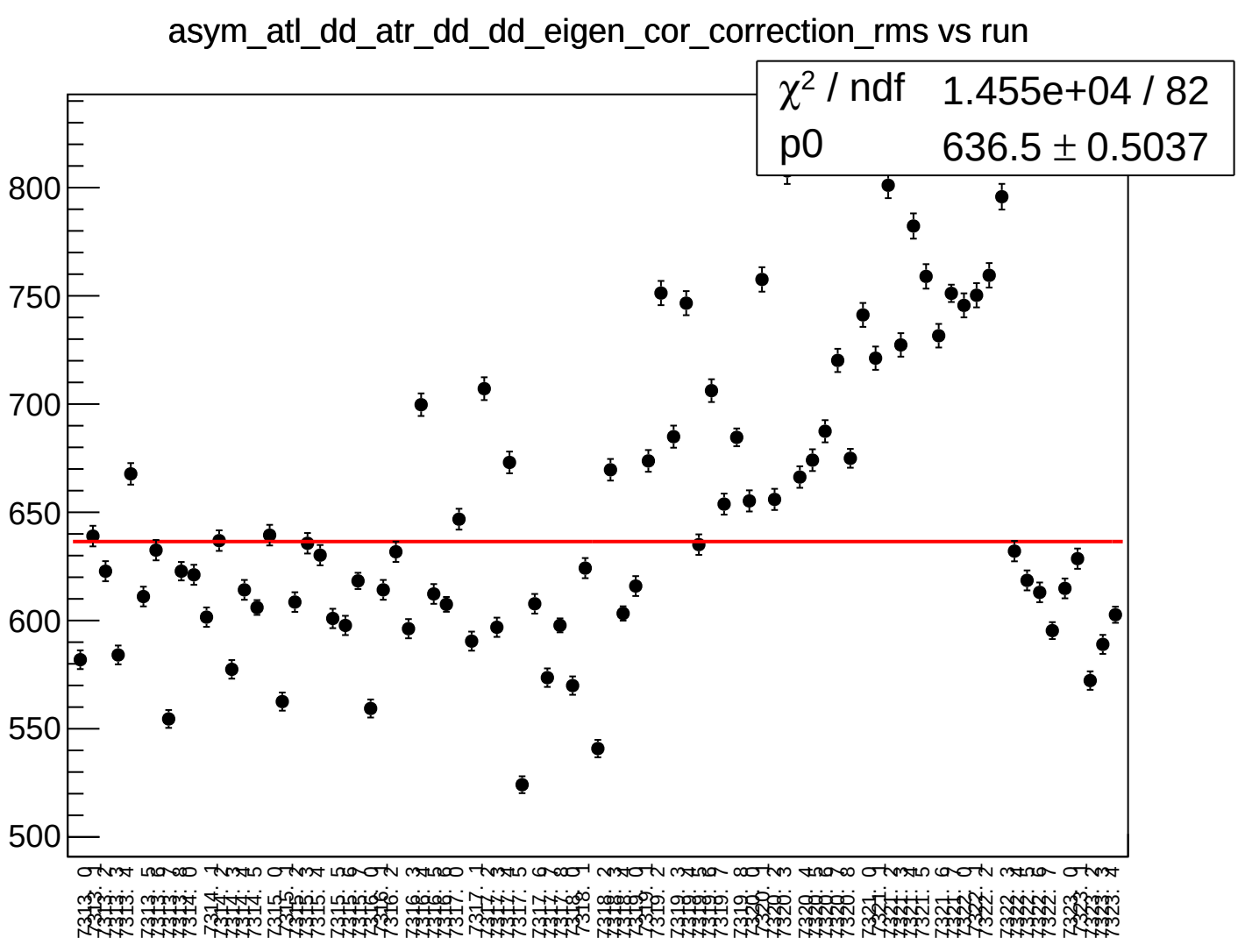

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.38 / 82
p0 1543 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 634.3
Std Dev 0
2
1
0
−1
−2
−3

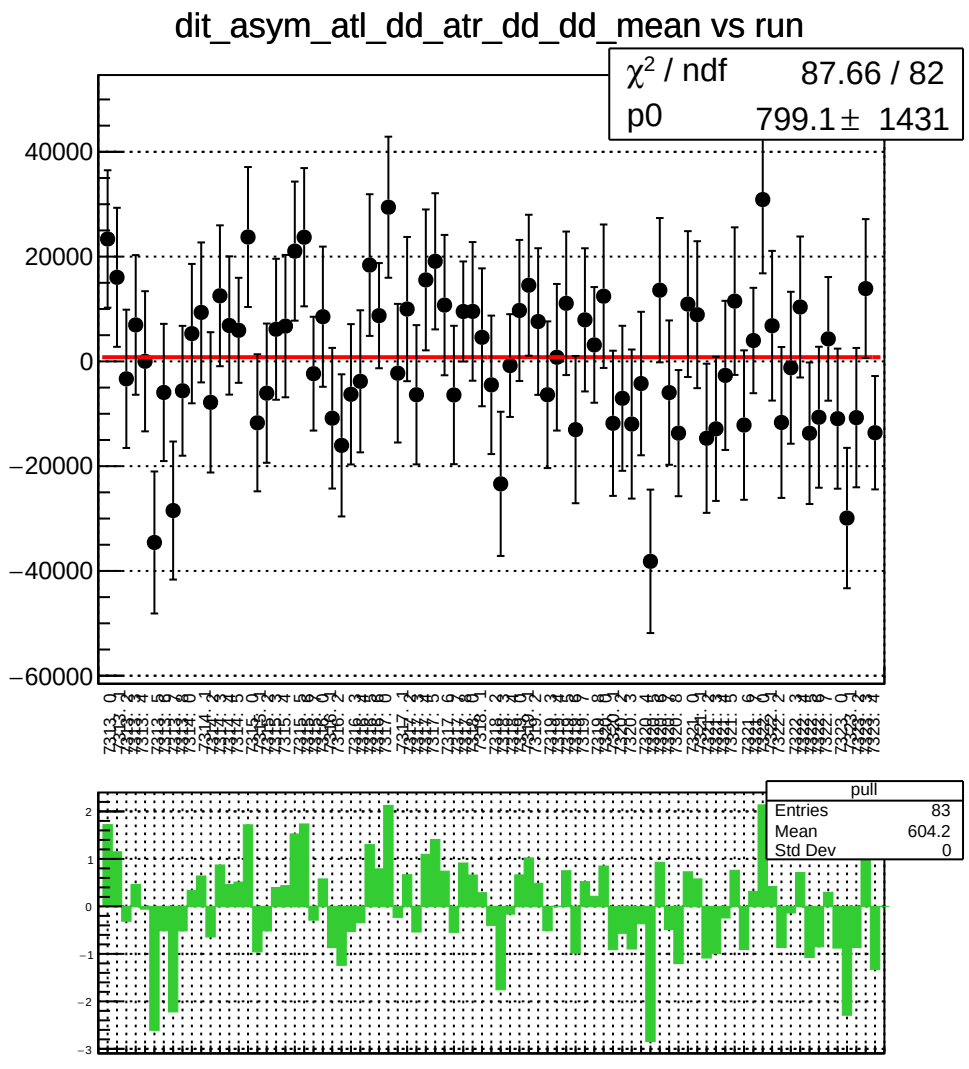

pull1D
Entries 83
Mean −0.005138
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

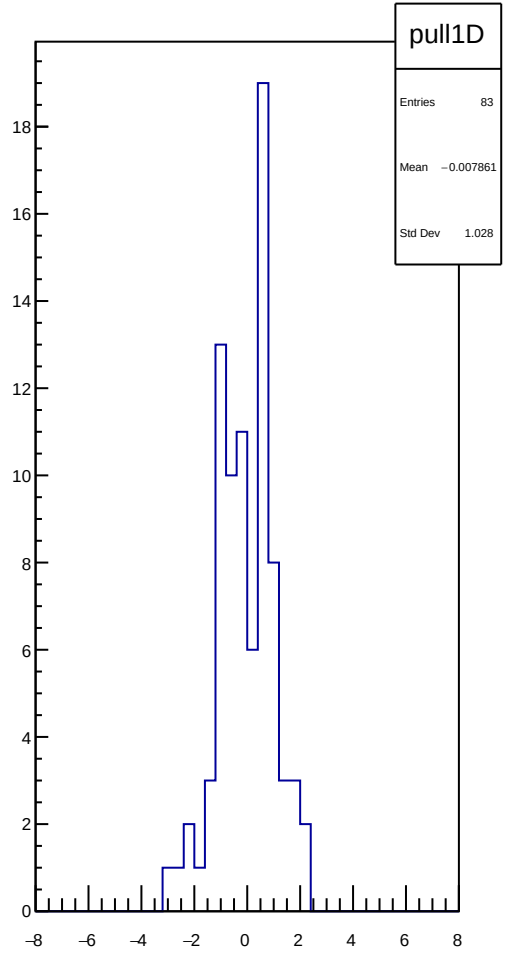

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 149.4 / 82
p0 1173 ± 0.9241
1220
1210
1200
1190
1180
1170
1160
1150
1140

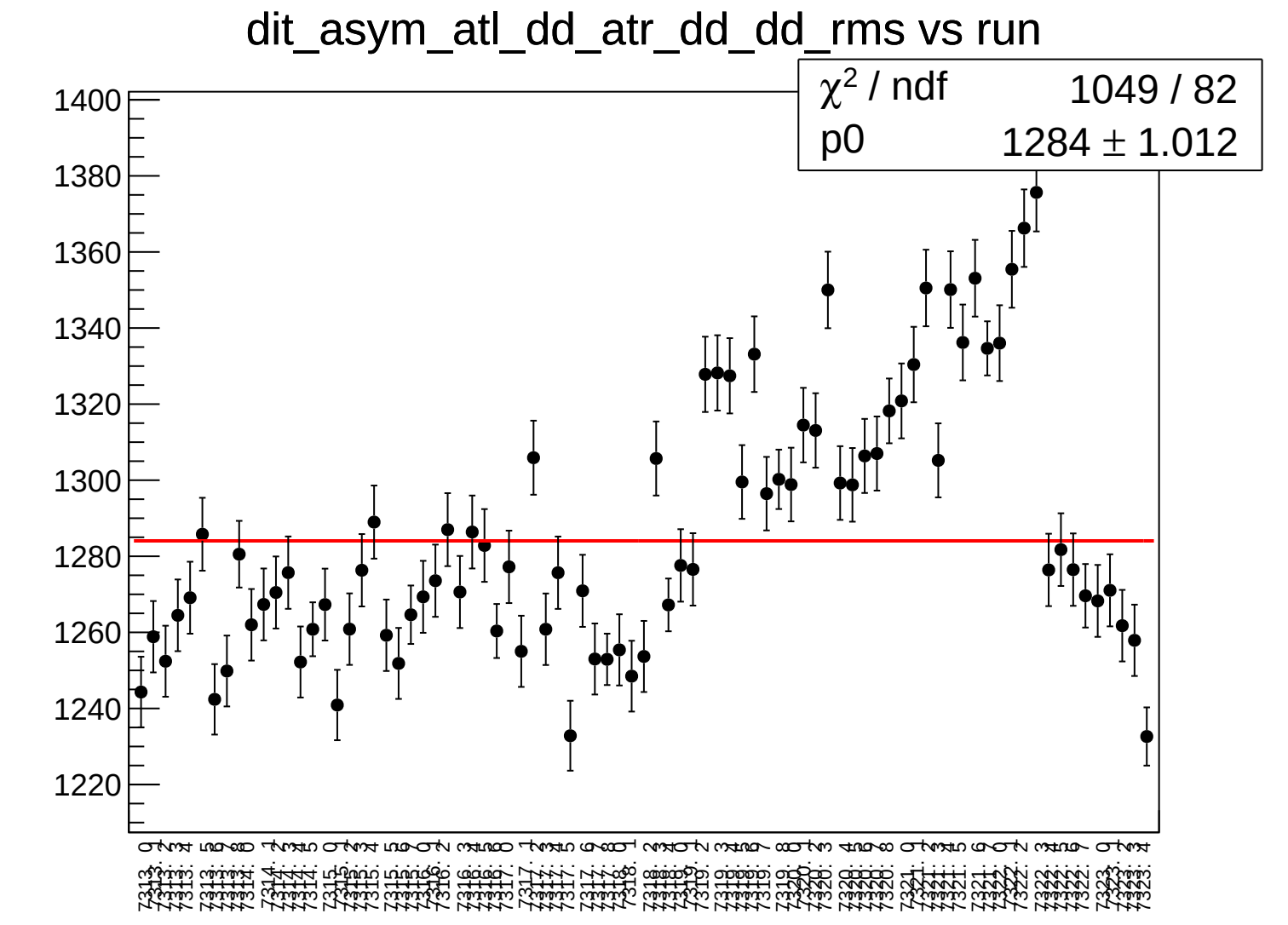

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.01 / 82
p0 692.7 ± 712.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1925
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

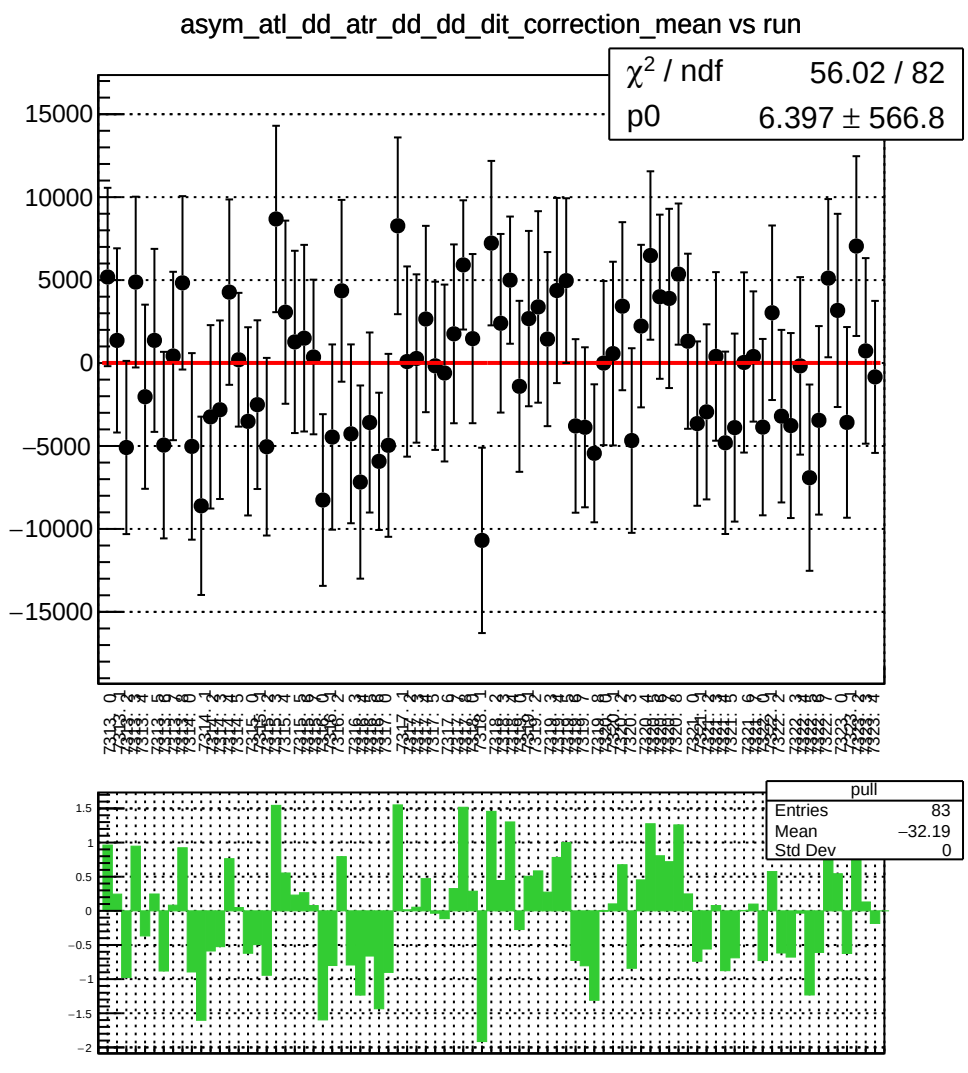

pull1D
Entries 83
Mean −0.002329
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

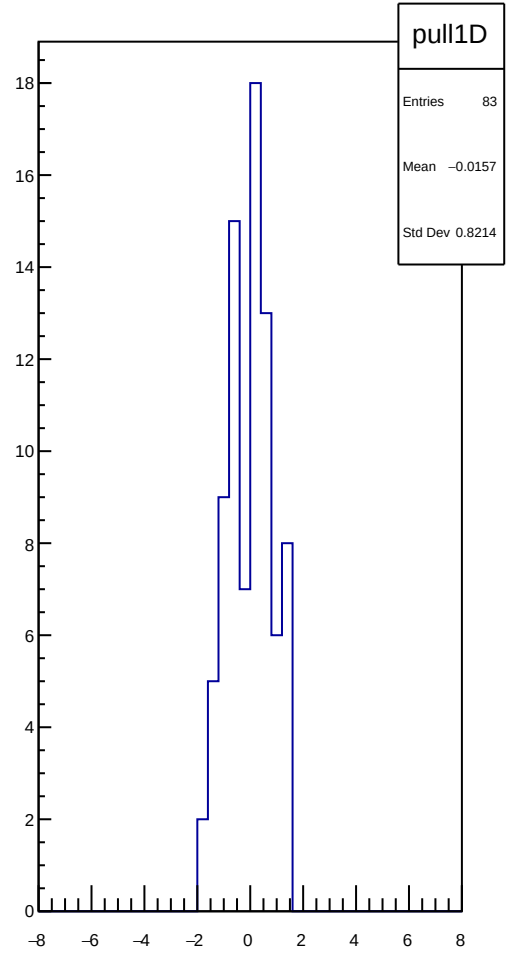

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 82
p0 636.5 ± 0.5037
800
750
700
650
600
550
500

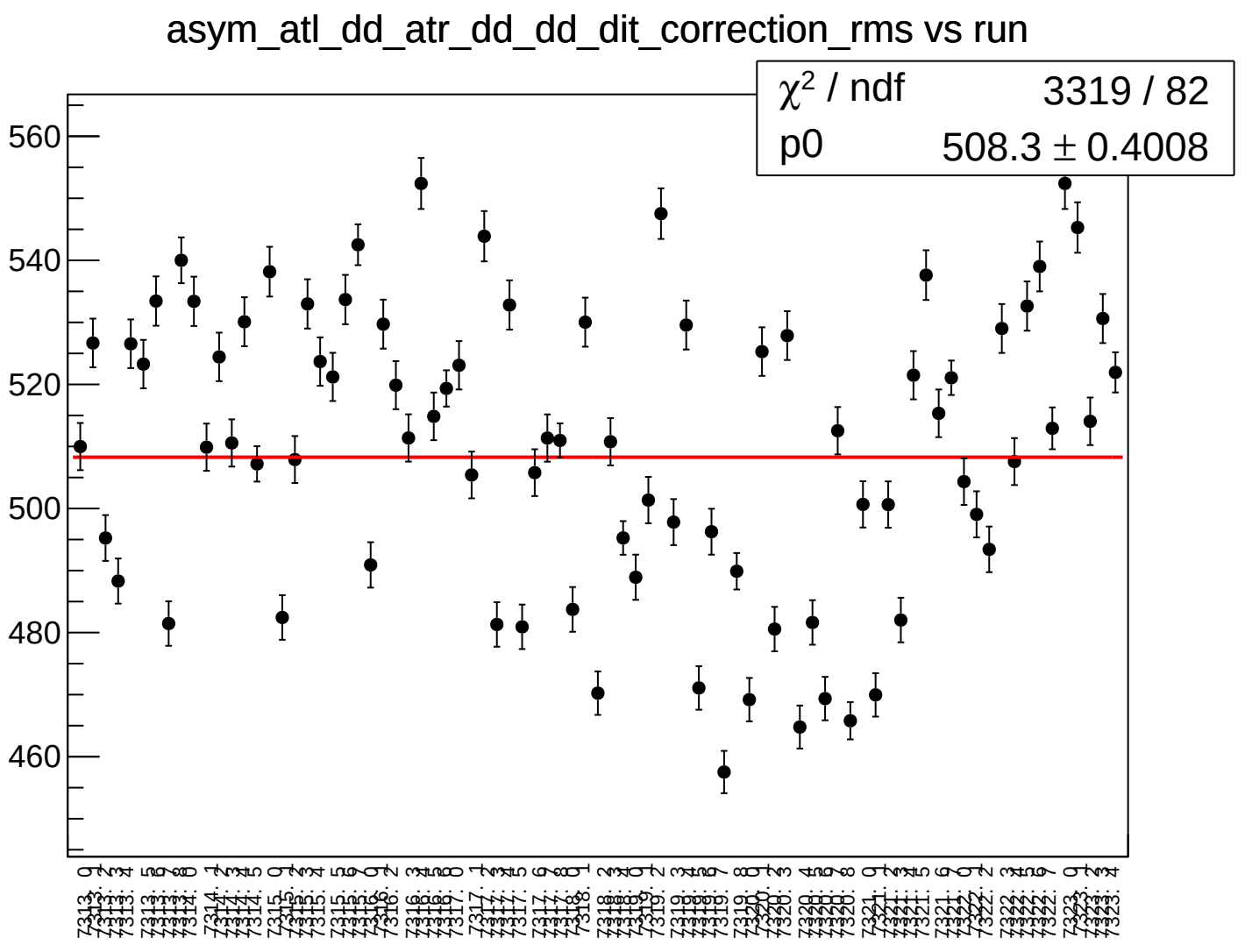

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 87.66 / 82
p0 799.1 ± 1431
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 604.2
Std Dev 0
2
1
0
−1
−2
−3

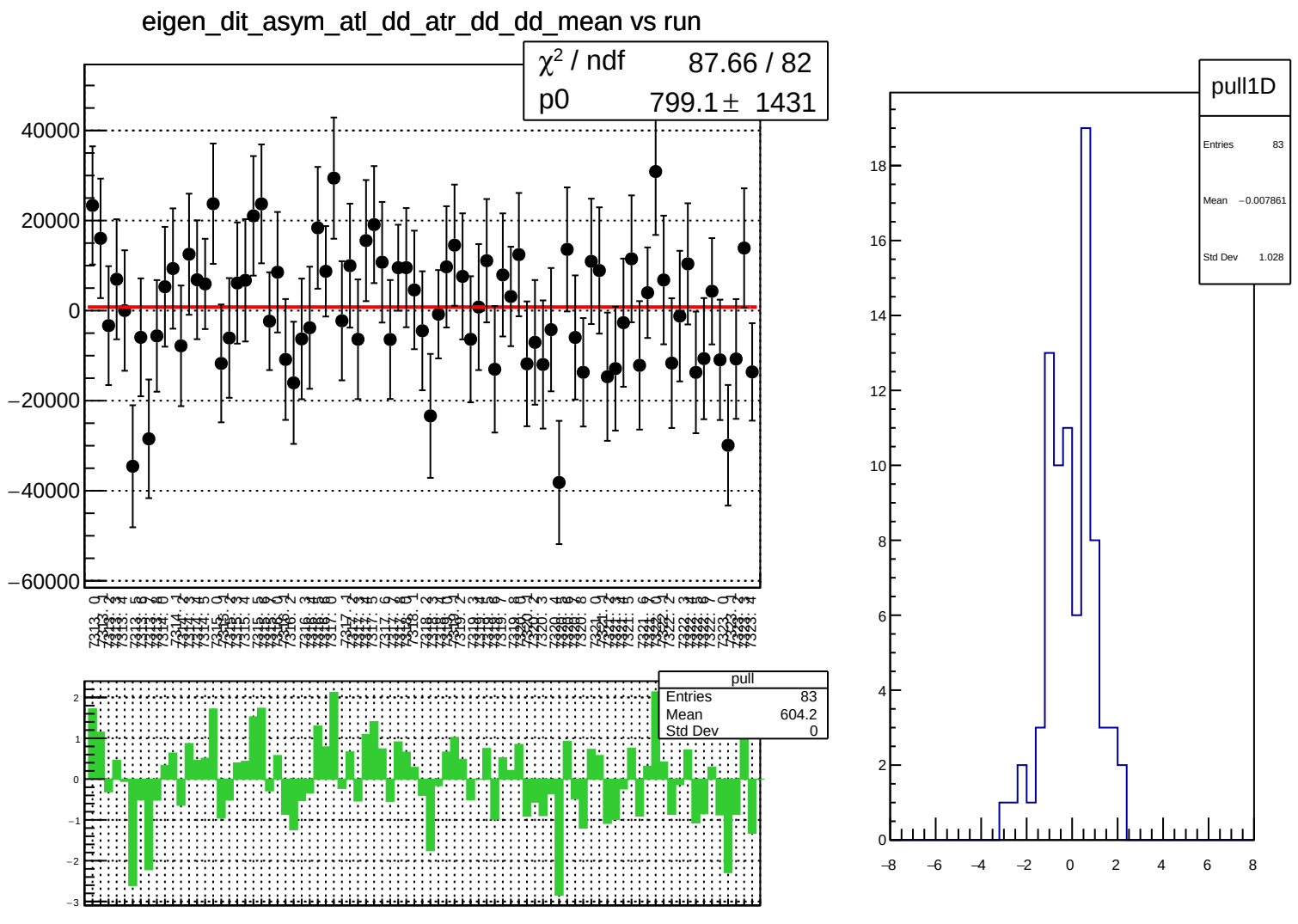

pull1D
Entries 83
Mean −0.007861
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

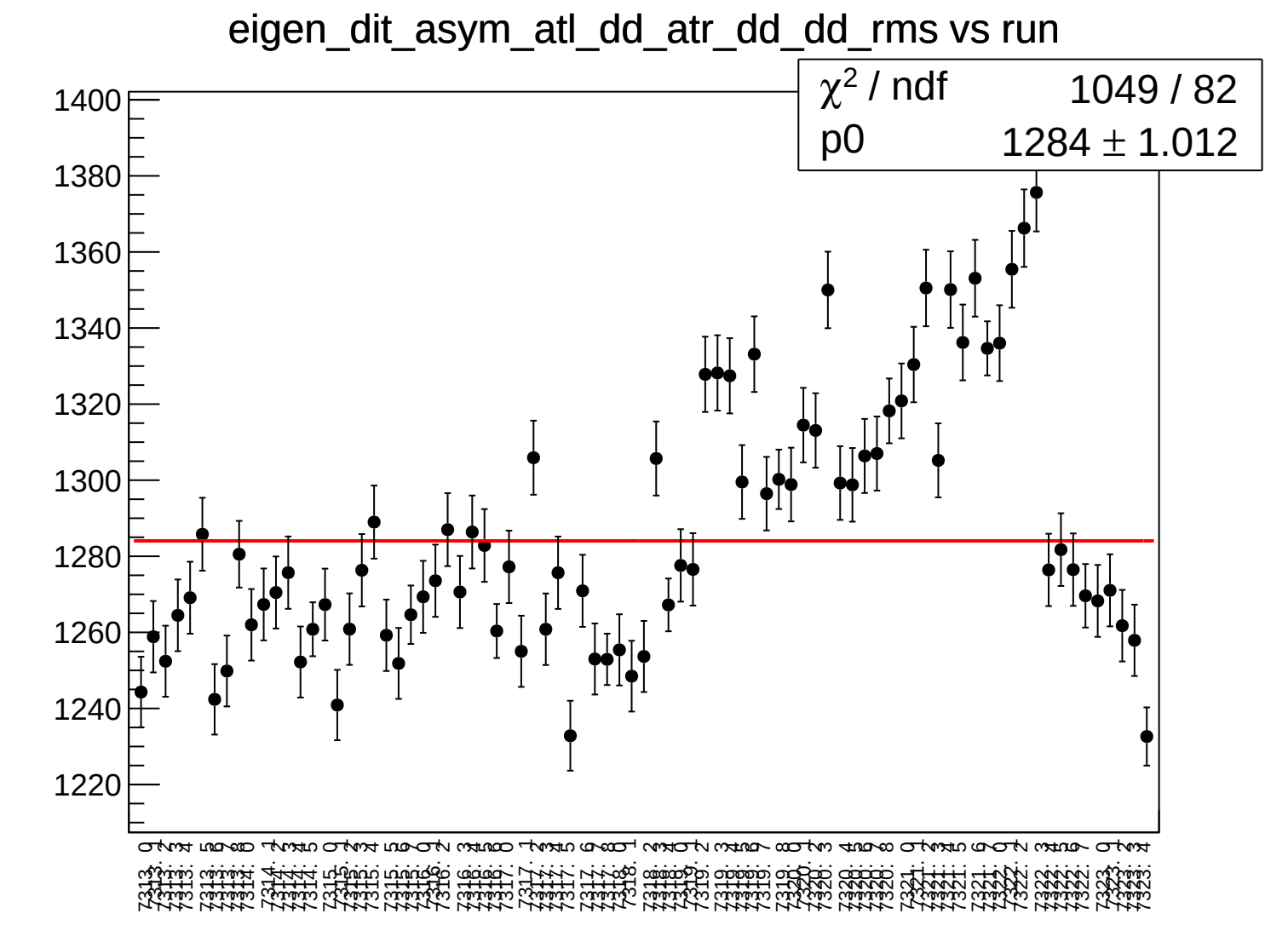

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1049 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

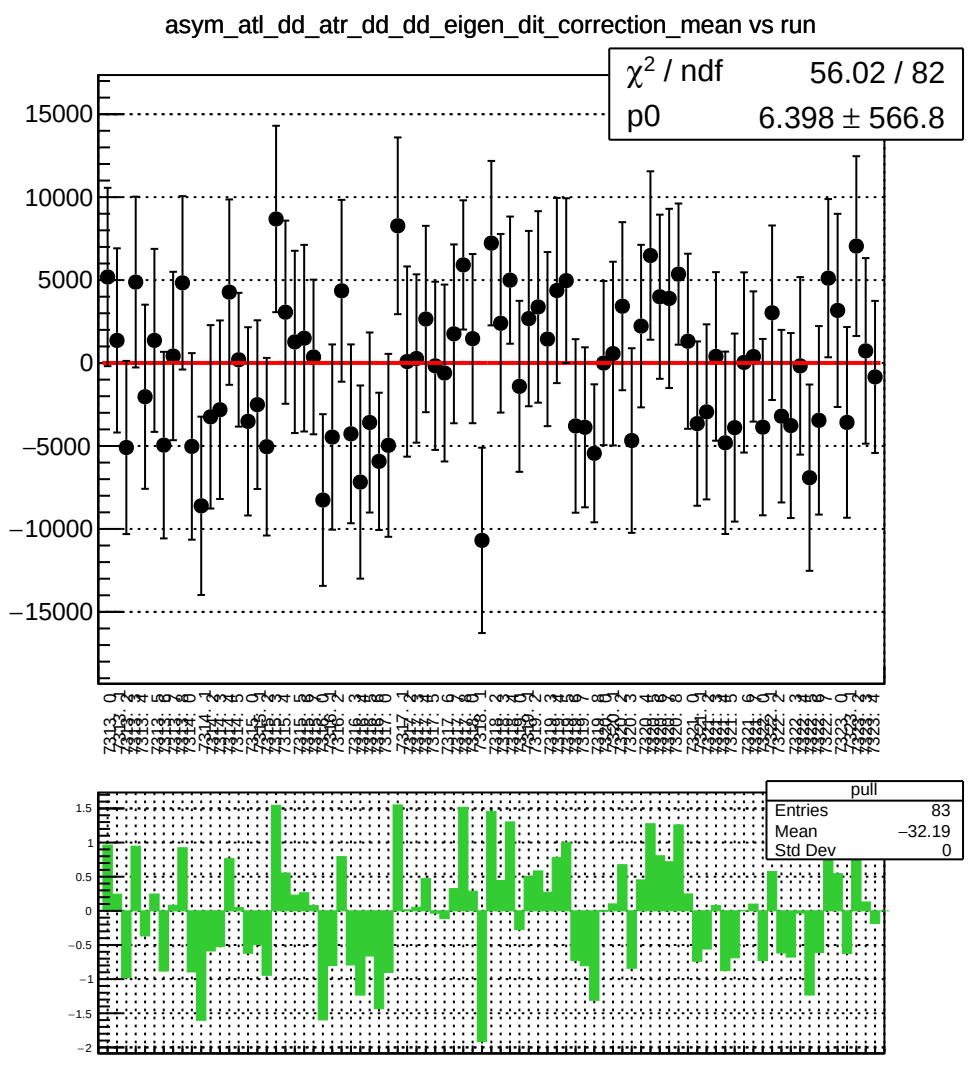

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 56.02 / 82
p0 6.397 ± 566.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −32.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

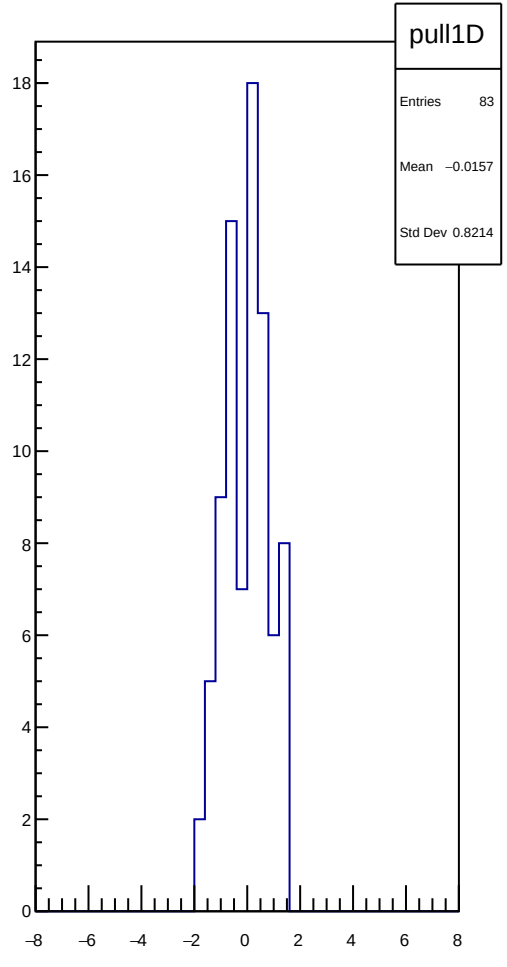

pull1D
Entries 83
Mean −0.0157
Std Dev 0.8214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

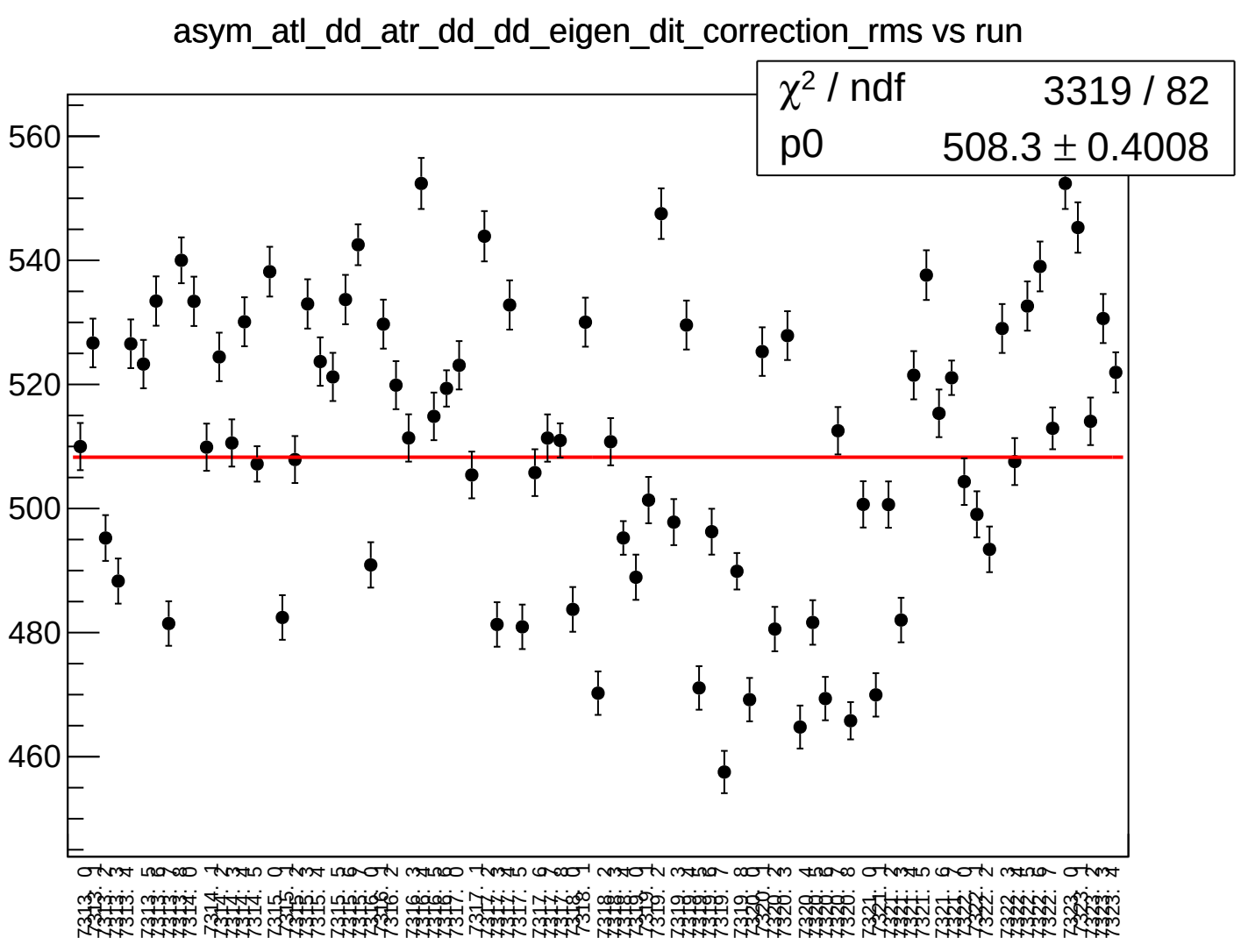

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3319 / 82
p0 508.3 ± 0.4008
560
540
520
500
480
460

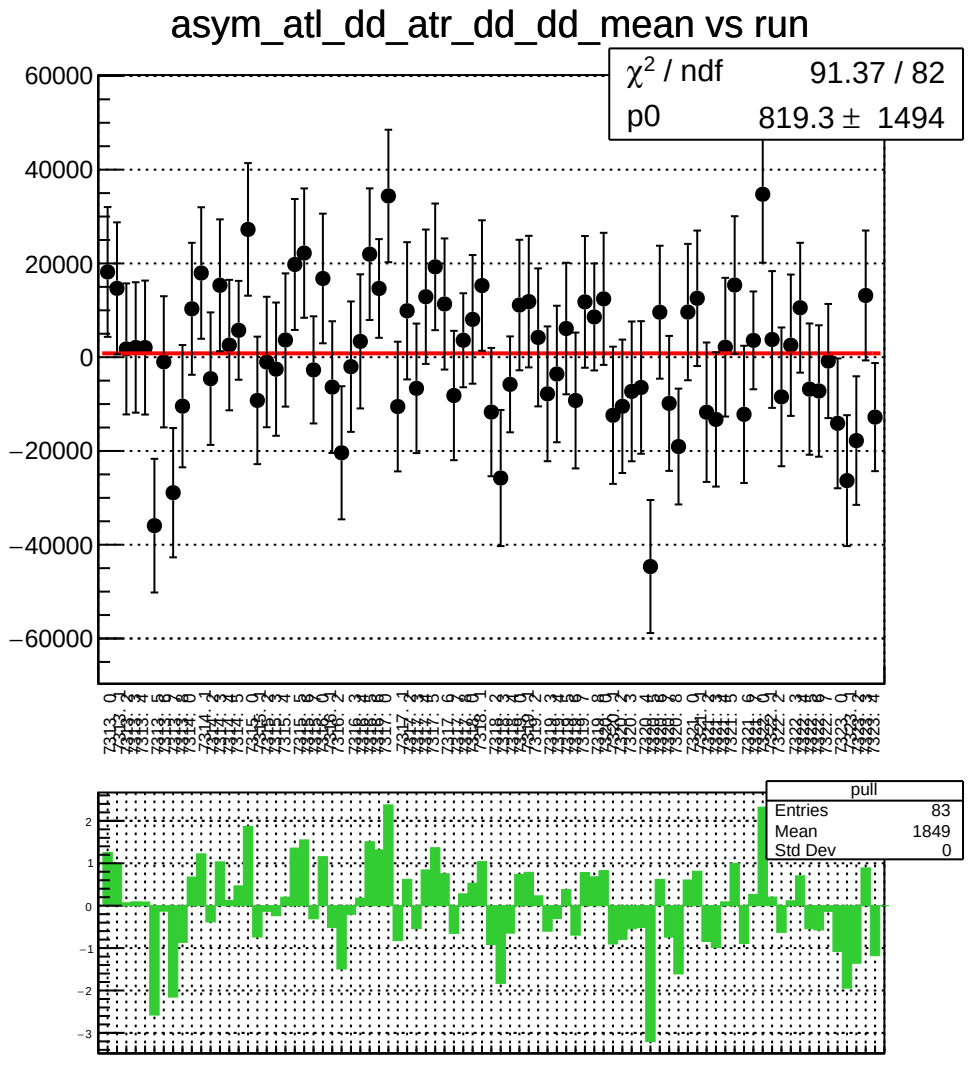

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 87.66 / 82
p0 799.1 ± 1431
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 604.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean −0.007861
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

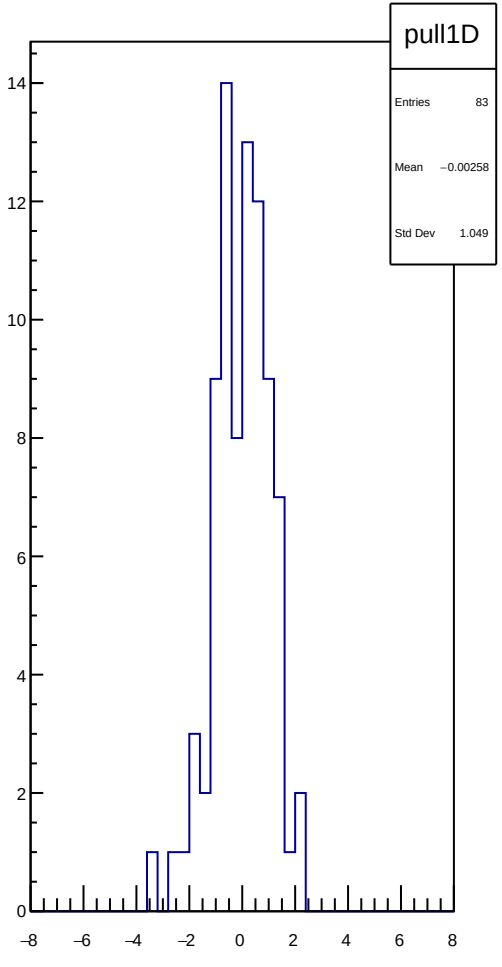

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1049 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

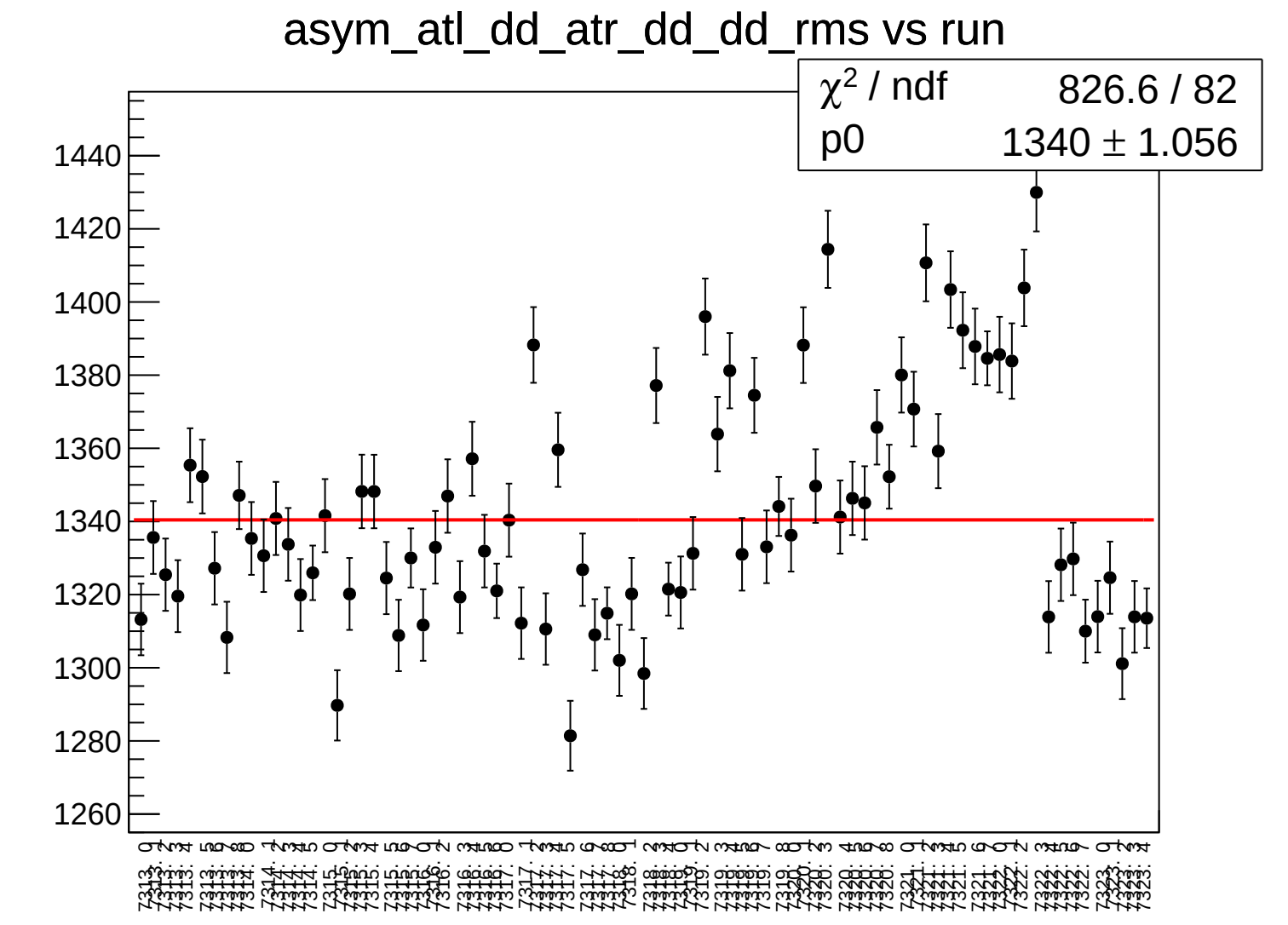

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.02 / 82
p0 6.398 ± 566.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −32.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

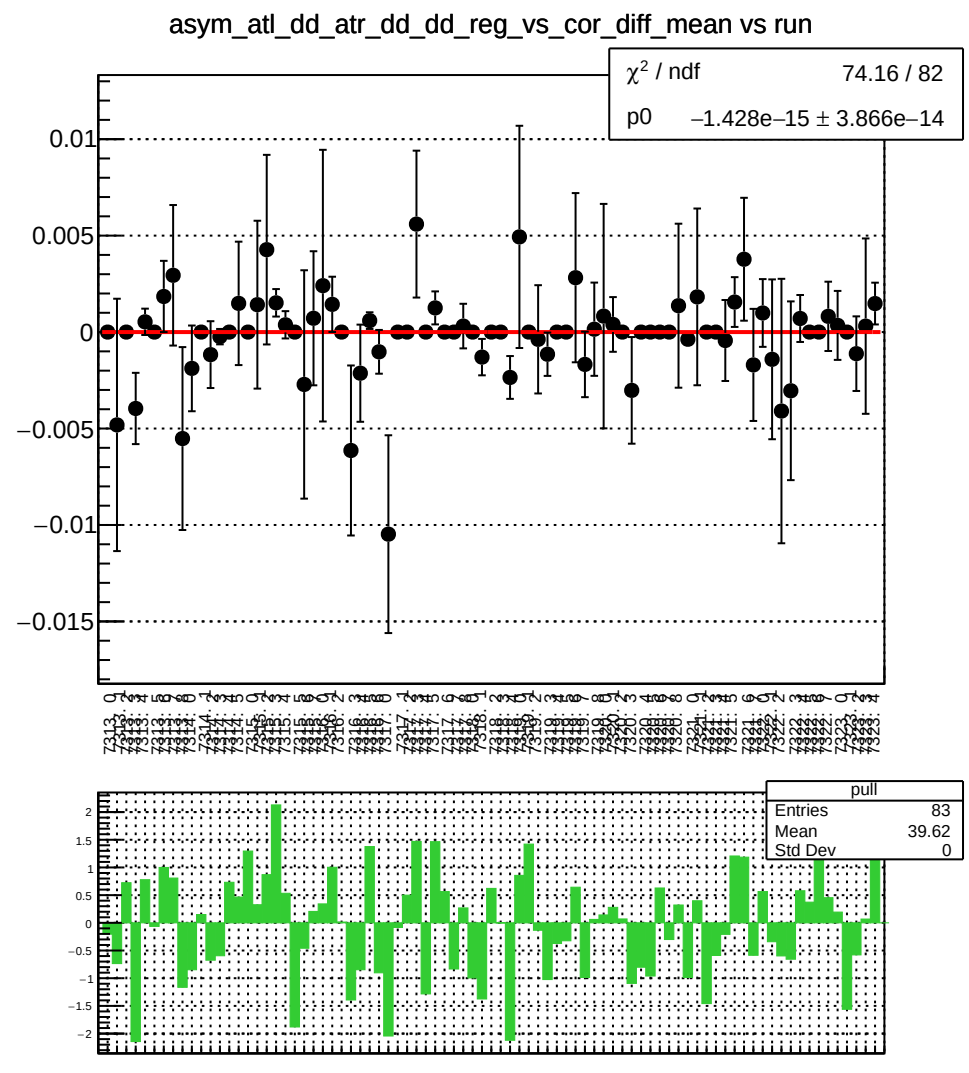

pull1D
Entries 83
Mean −0.0157
Std Dev 0.8214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

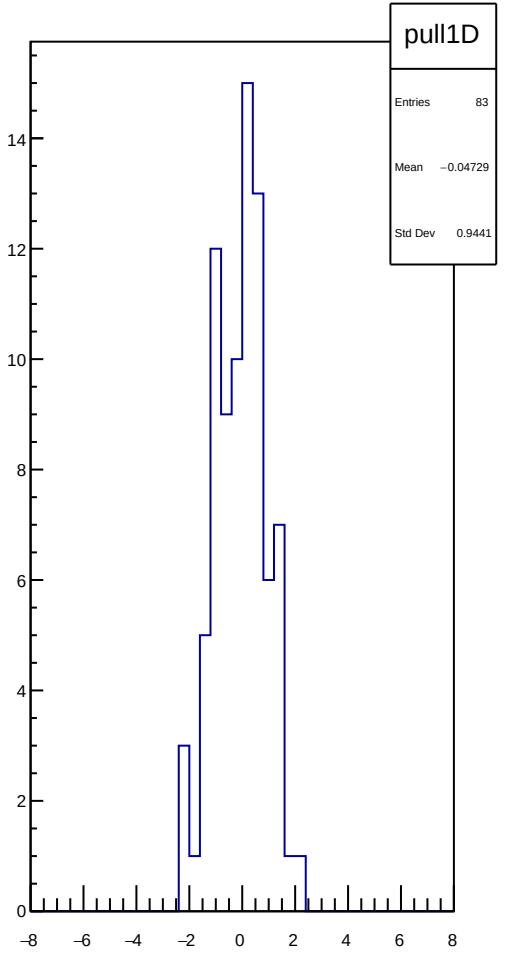

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3319 / 82
p0 508.3 ± 0.4008
560
540
520
500
480
460

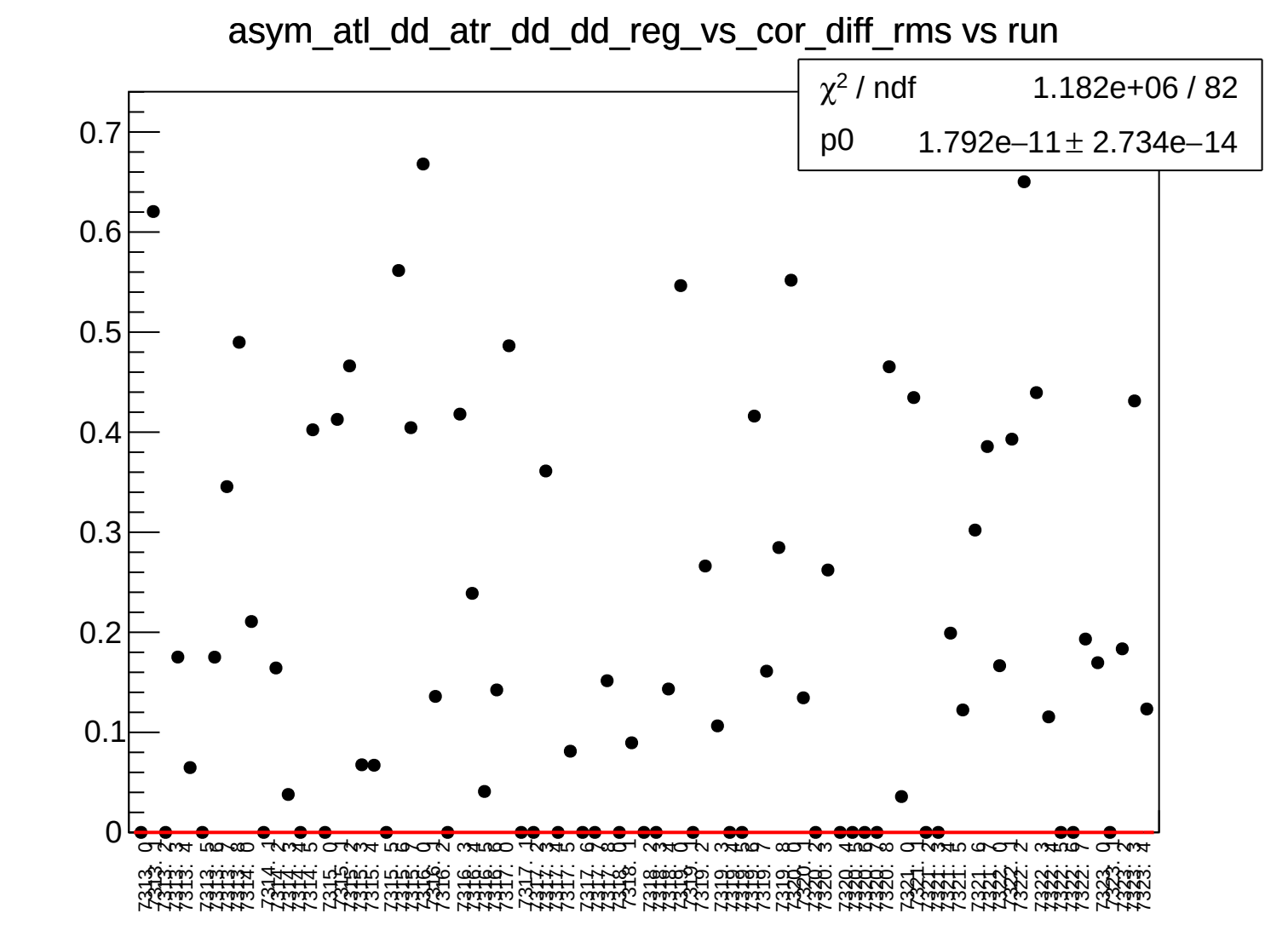

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.37 / 82
p0 819.3 ± 1494
pull
Entries 83
Mean 1849
Std Dev 0

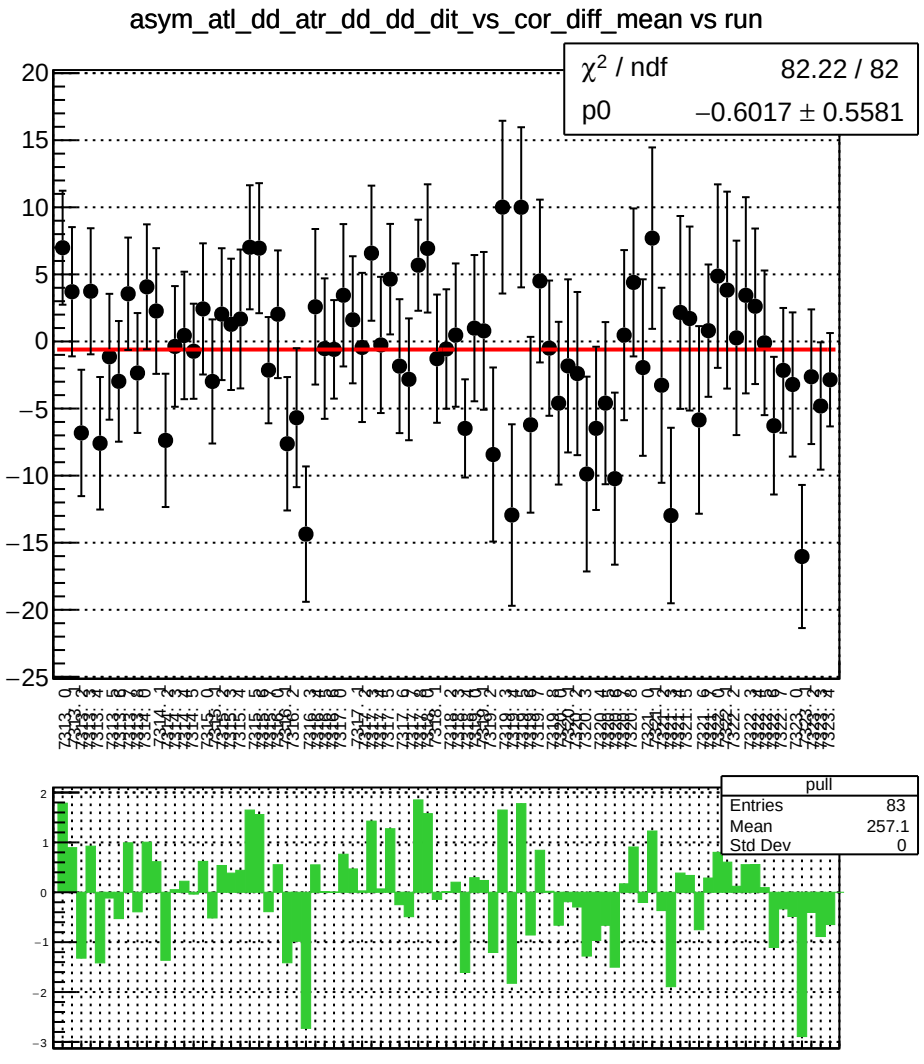

pull1D
Entries 83
Mean −0.00258
Std Dev 1.049

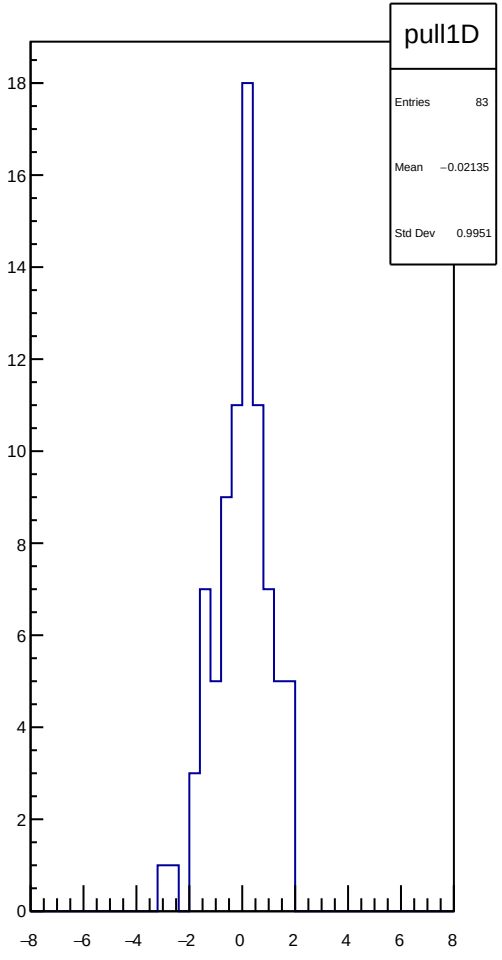

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 826.6 / 82
p0 1340 ± 1.056
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

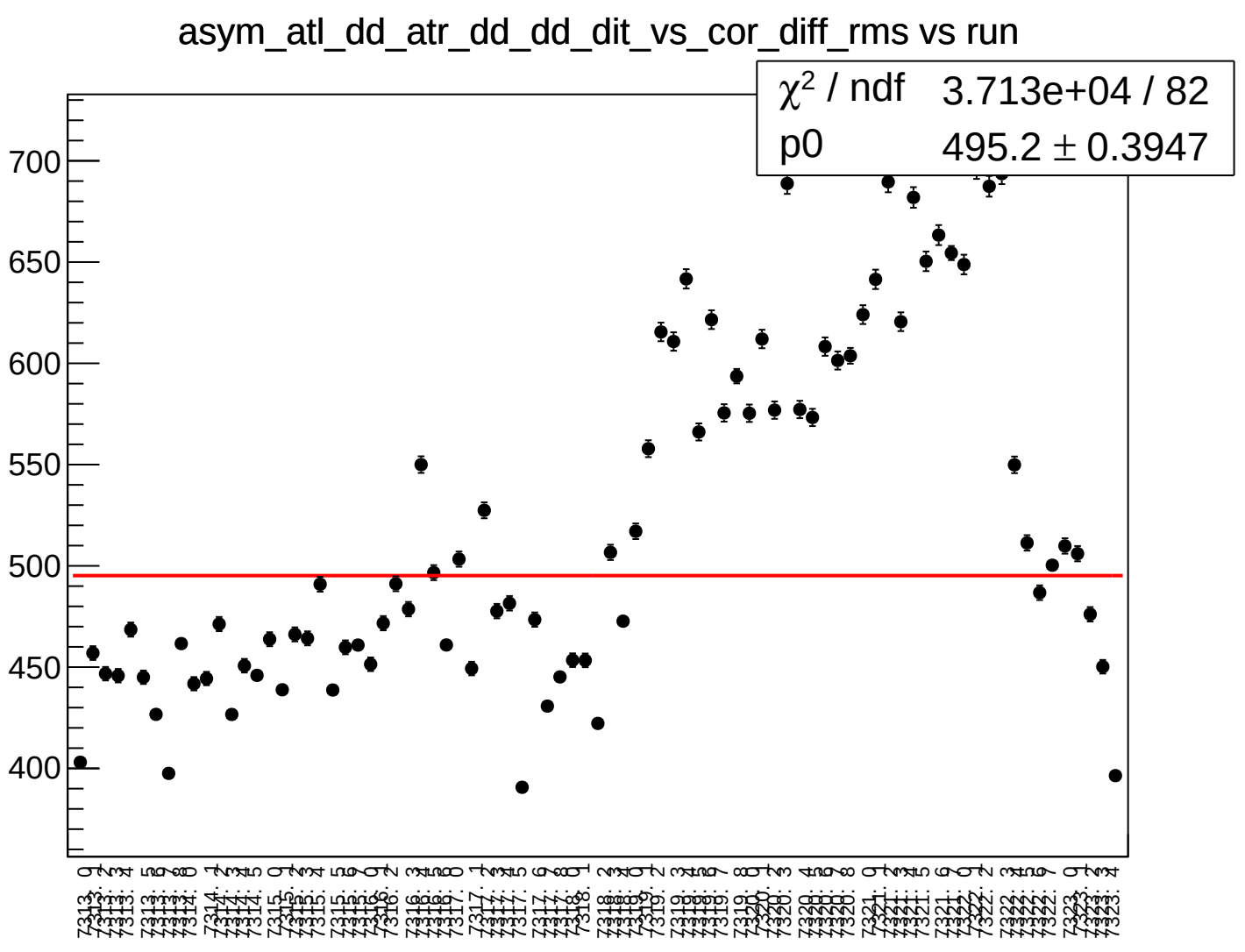

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.16 / 82
p0 −1.428e−15 ± 3.866e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 83
Mean 39.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

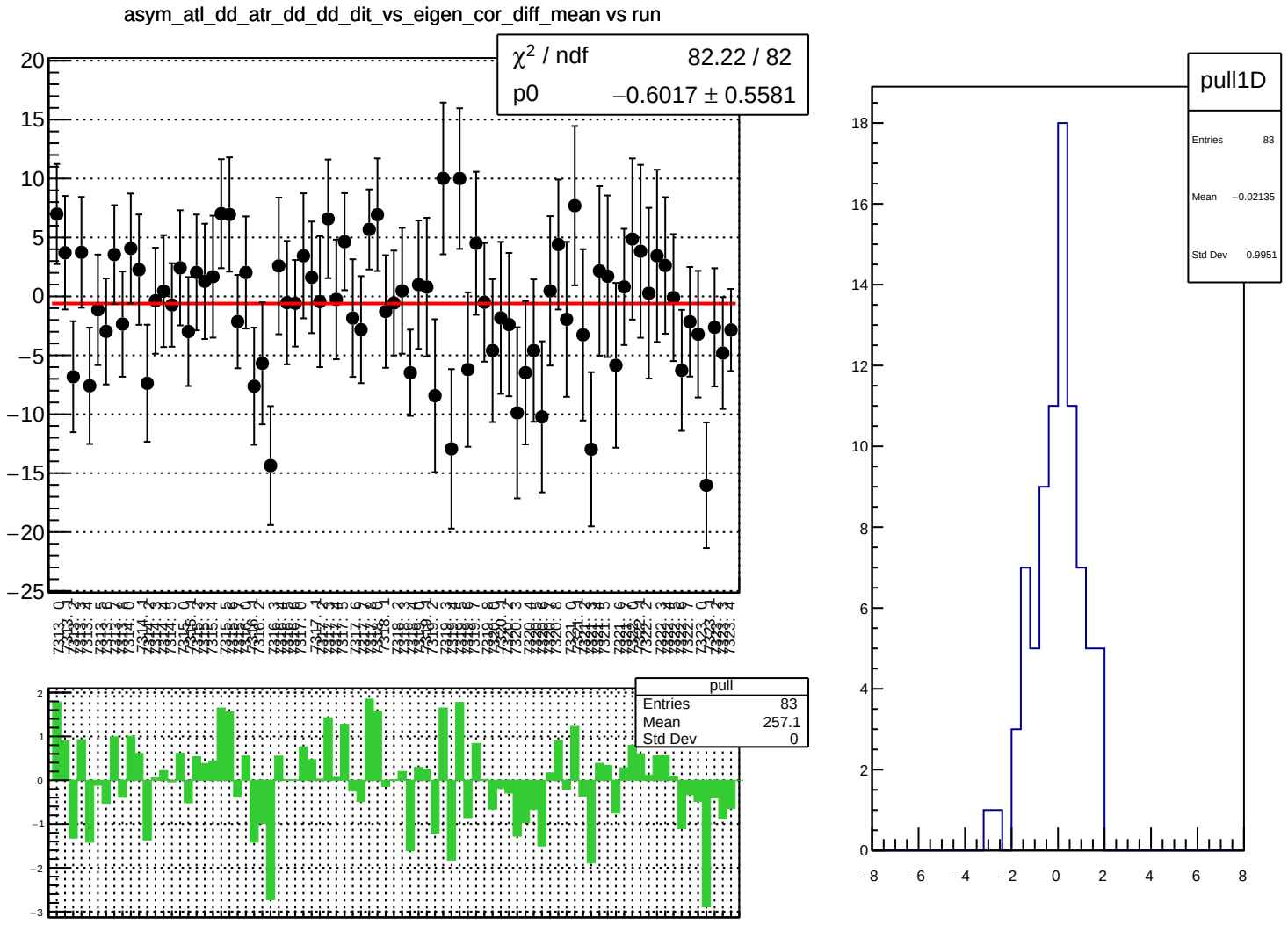

pull1D
Entries 83
Mean −0.04729
Std Dev 0.9441
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

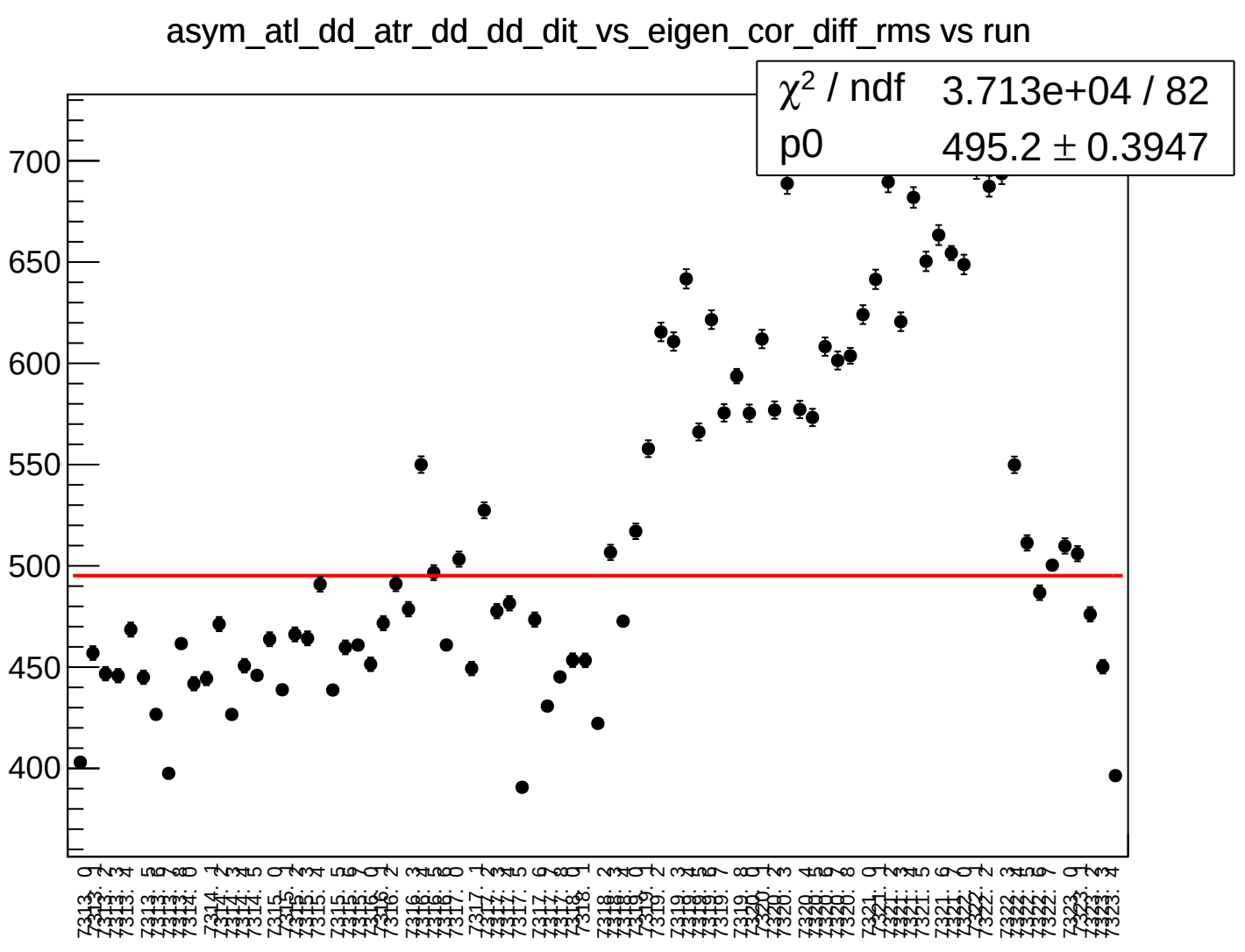

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 82
p0 1.792e−11 ± 2.734e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

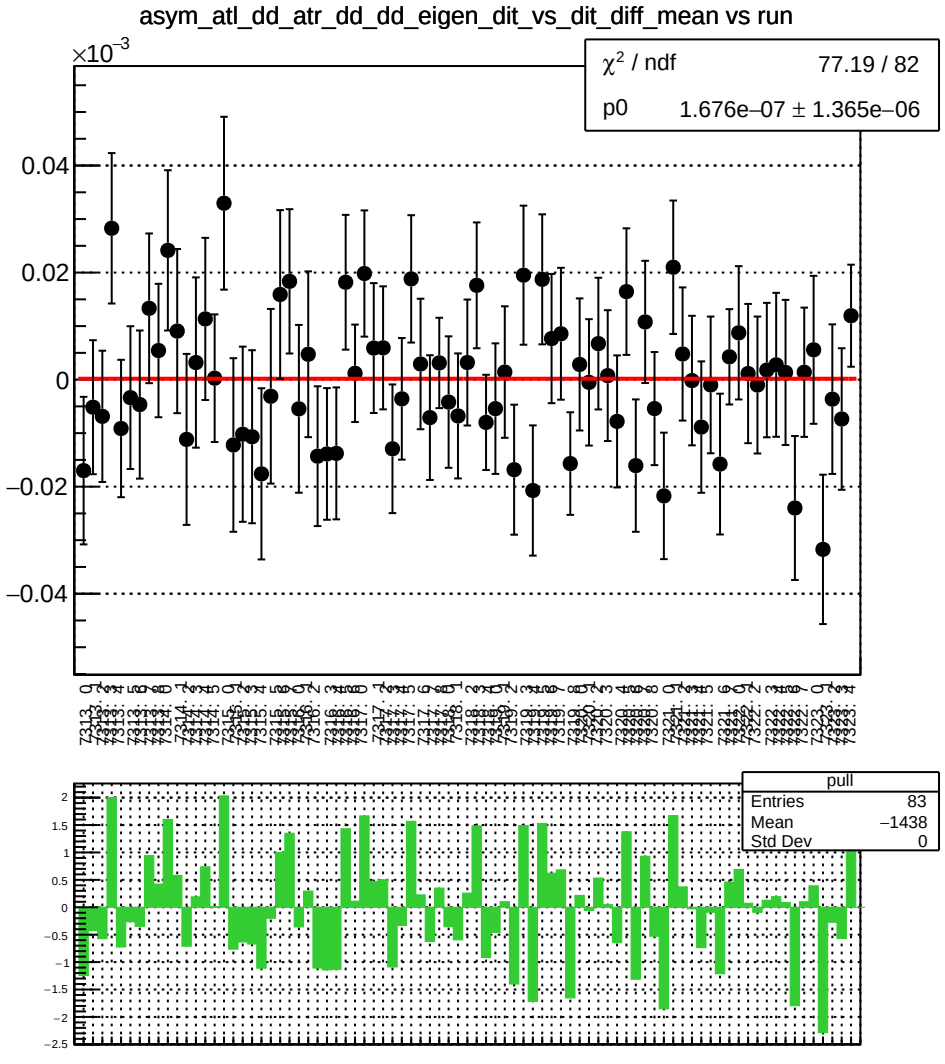

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0

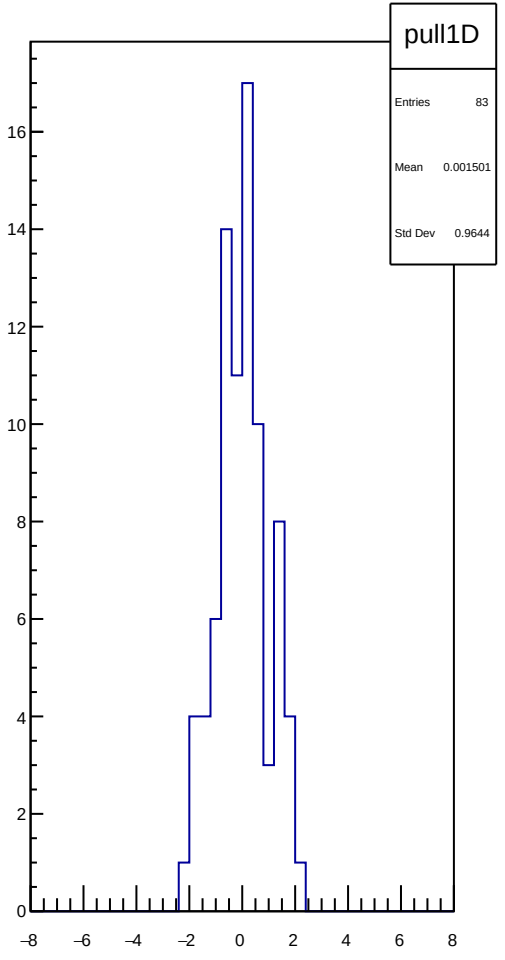

pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

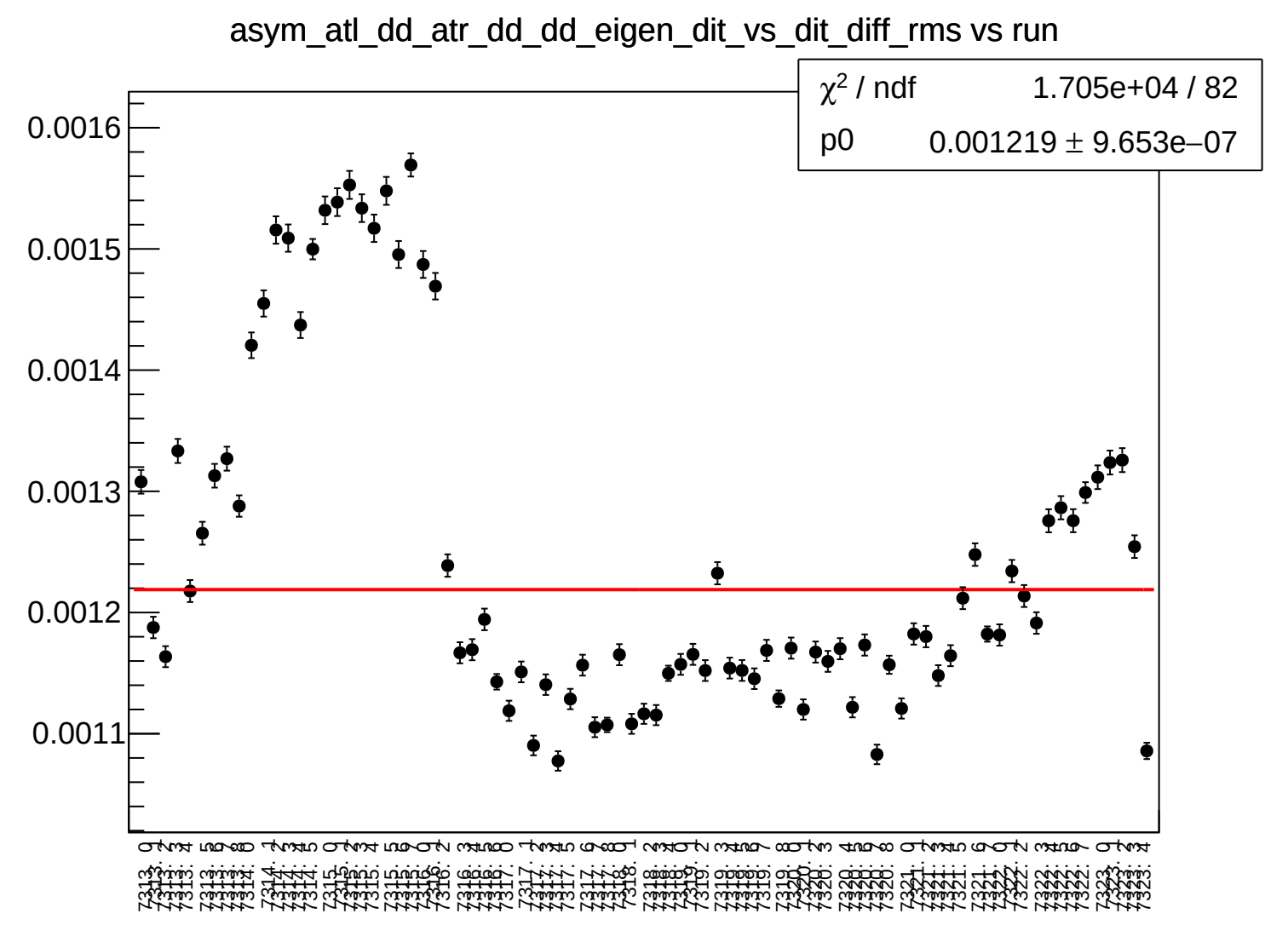

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

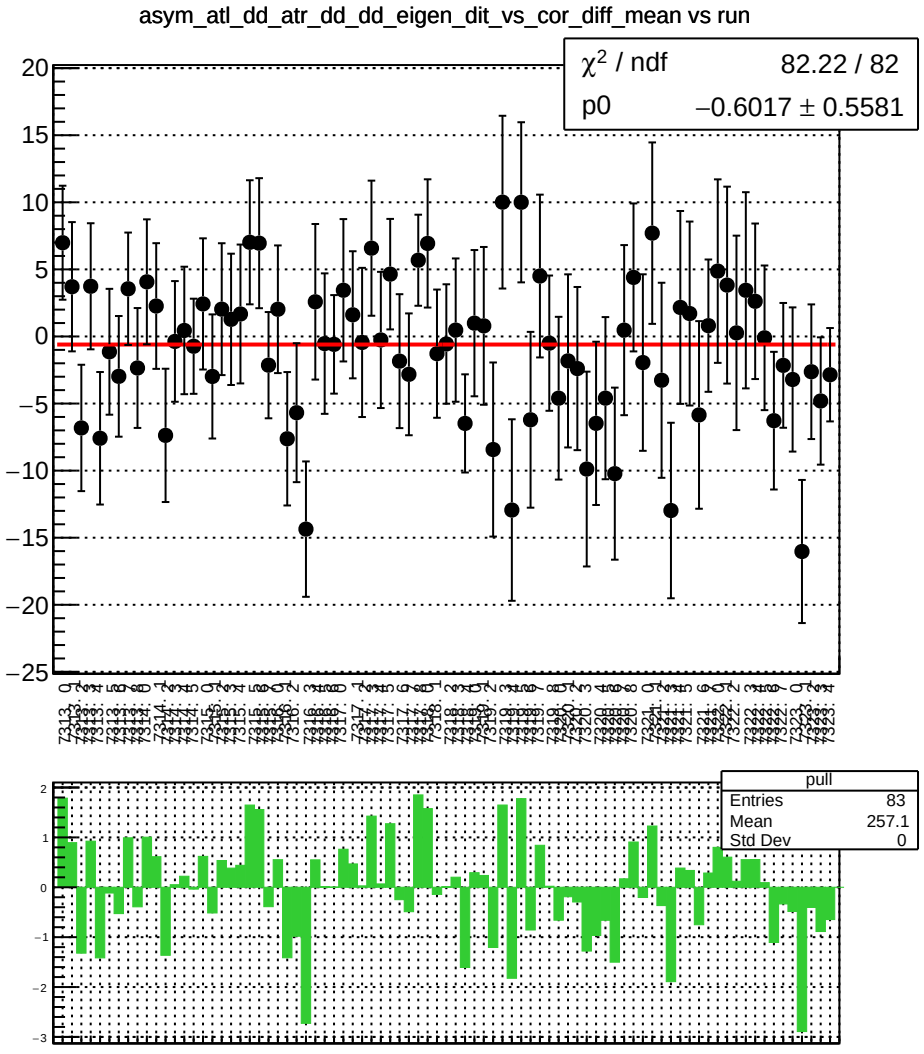

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0
pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

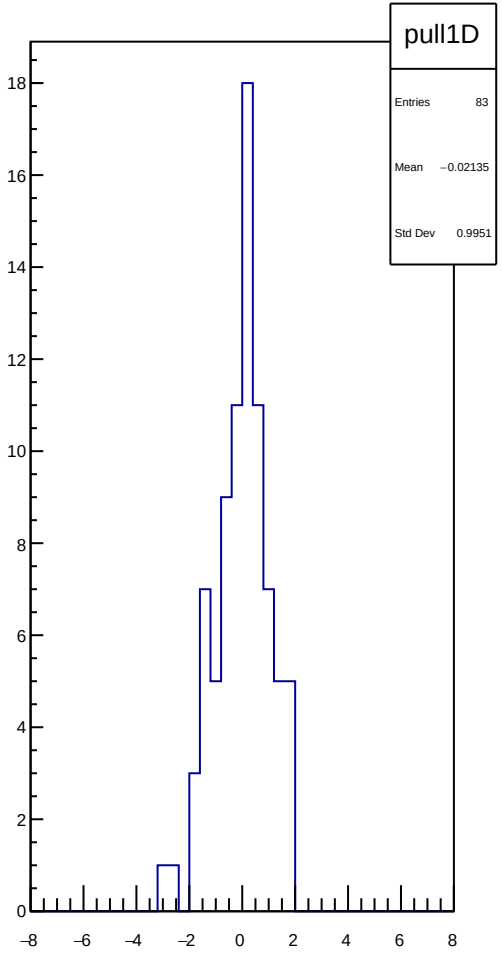

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

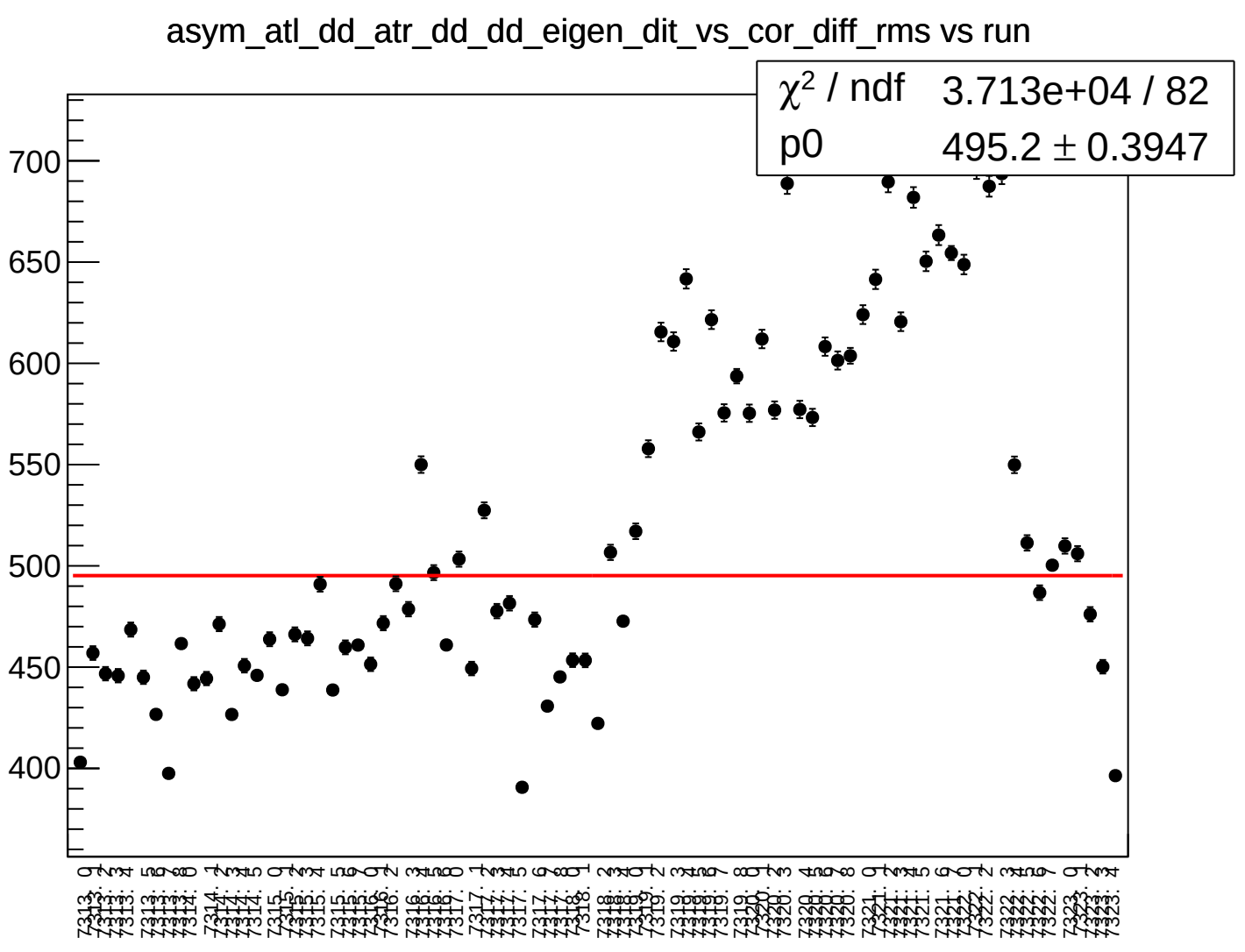

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.19 / 82
p0 1.676e−07 ± 1.365e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 83
Mean −1438
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

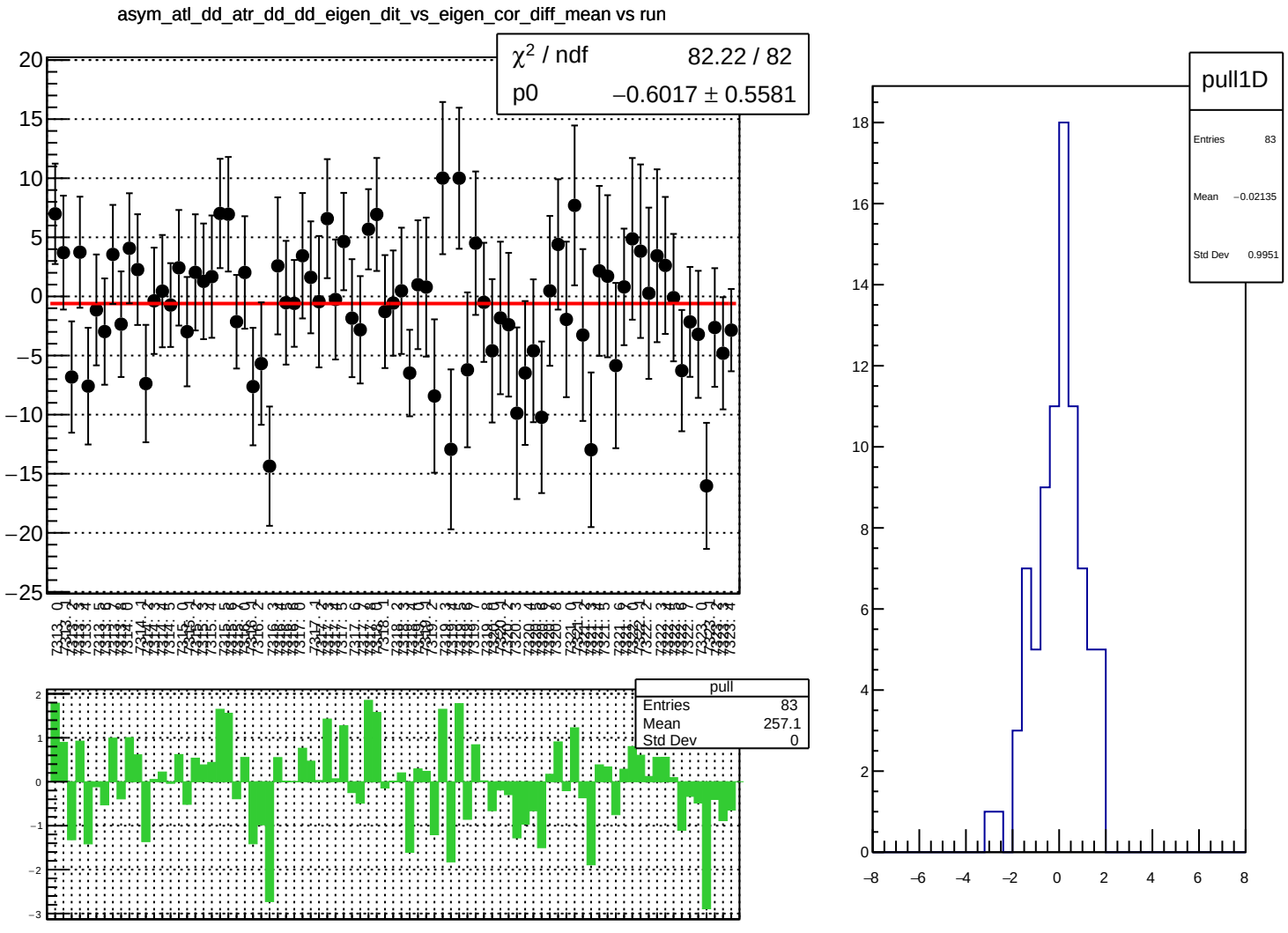

pull1D
Entries 83
Mean 0.001501
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

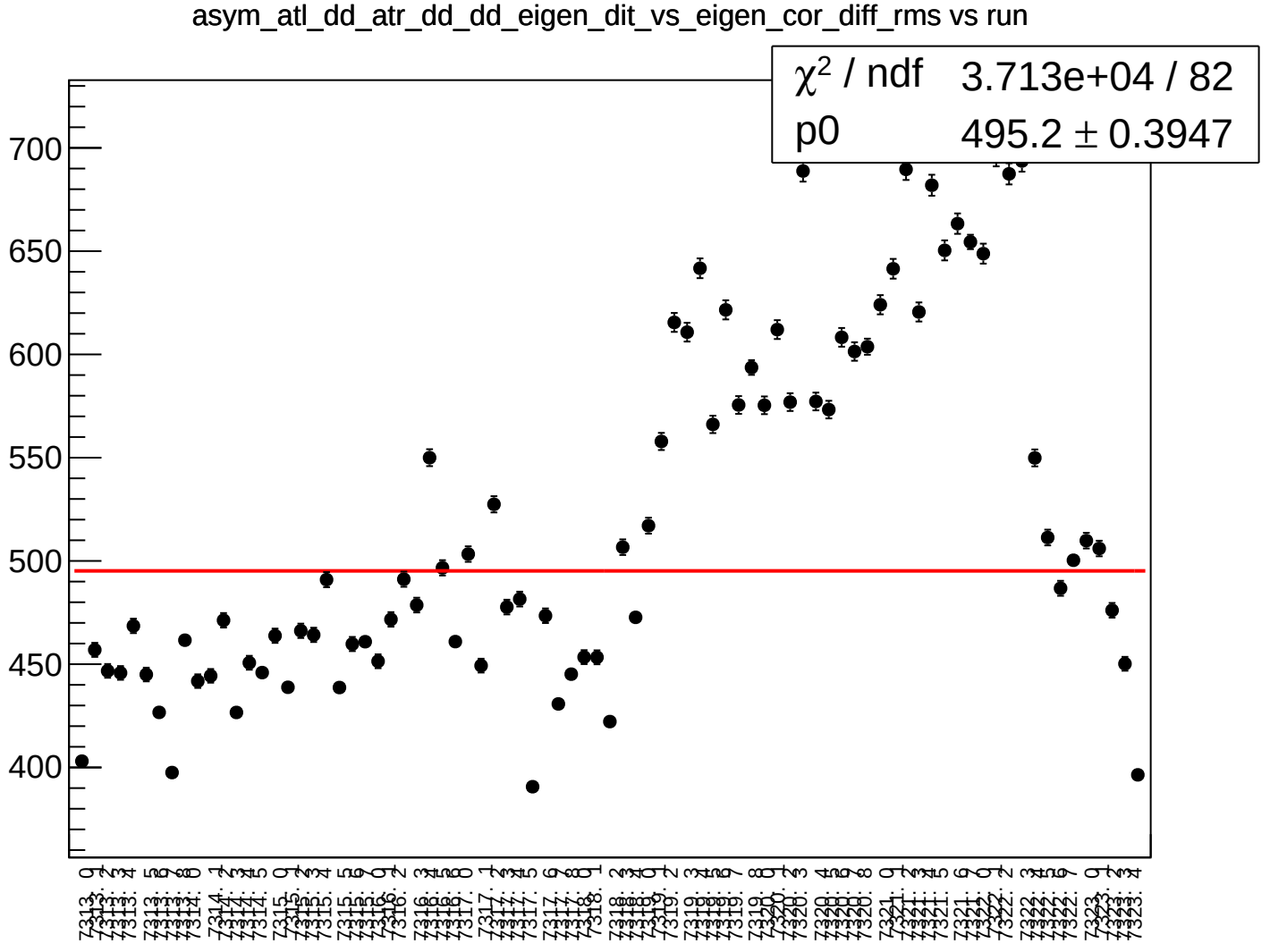

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.705e+04 / 82
p0 0.001219 ± 9.653e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

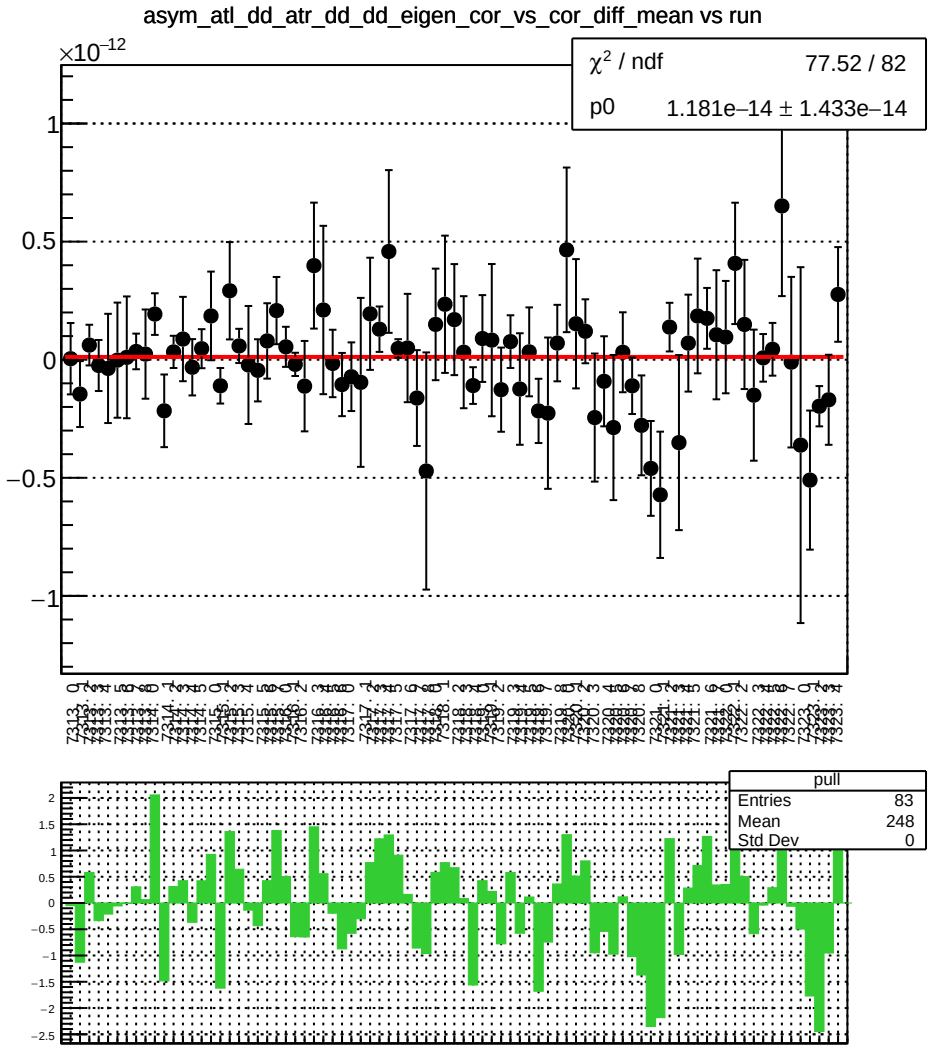

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0

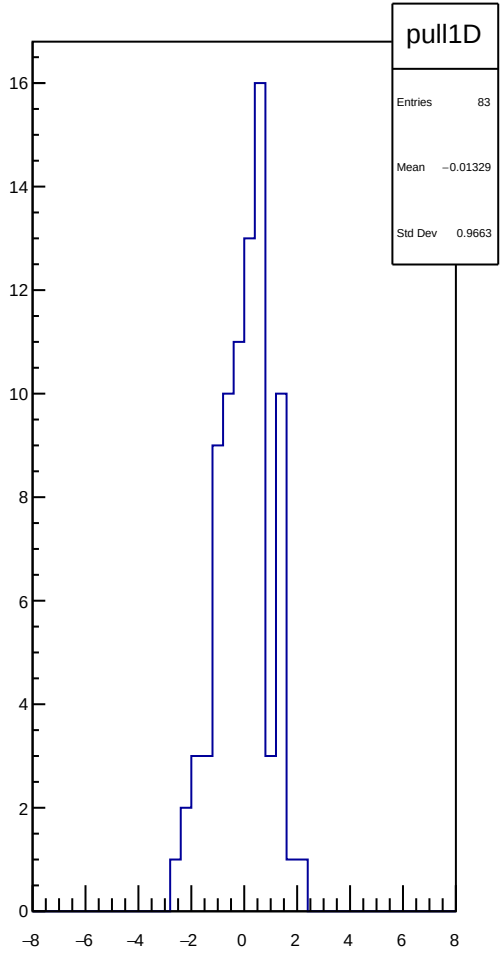

pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

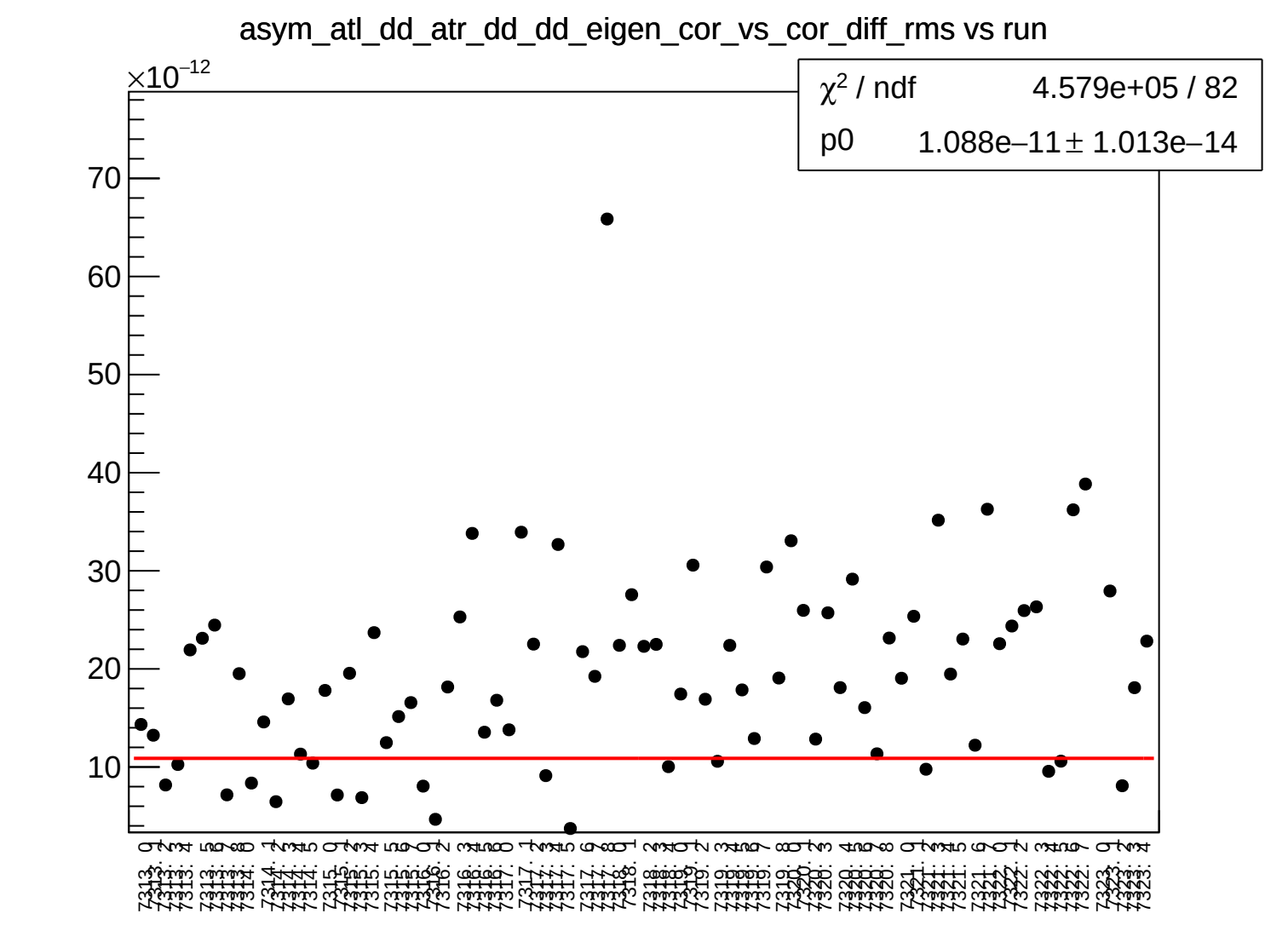

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

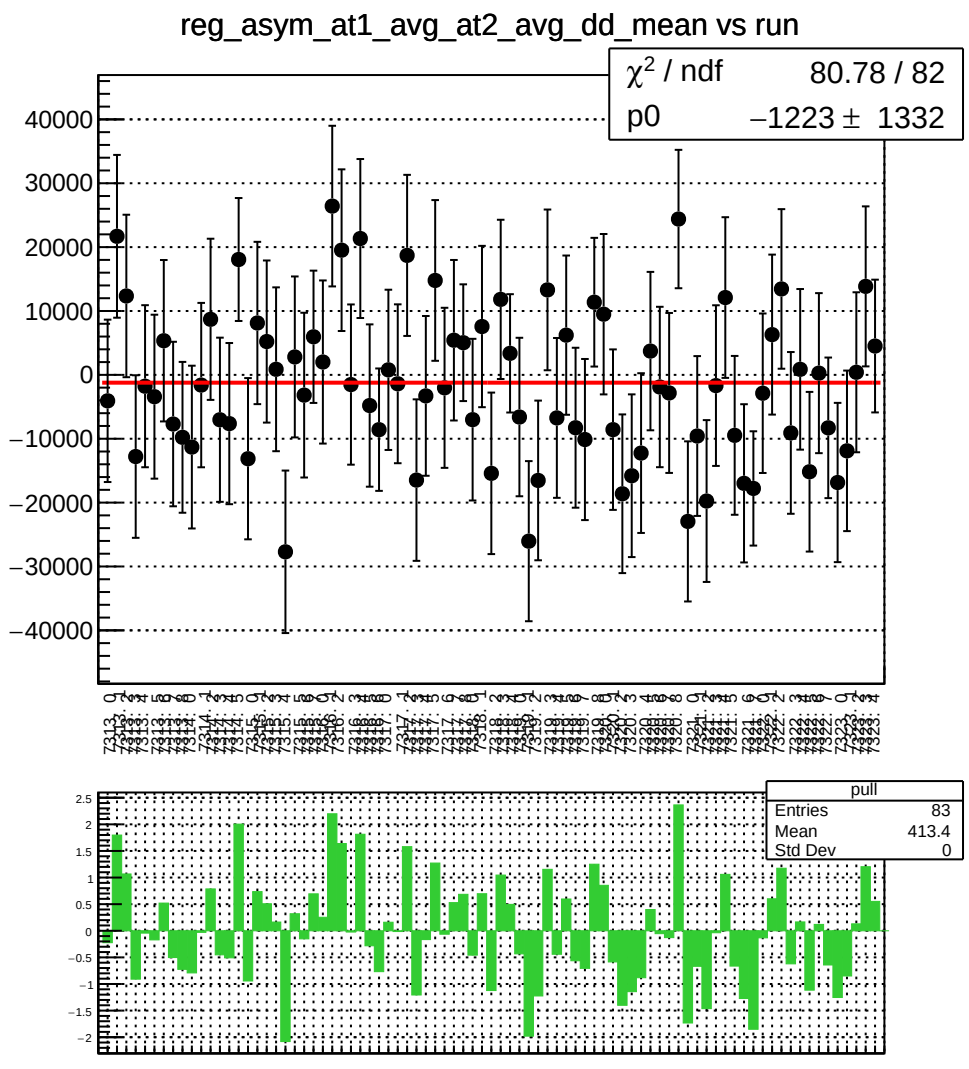

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0
pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

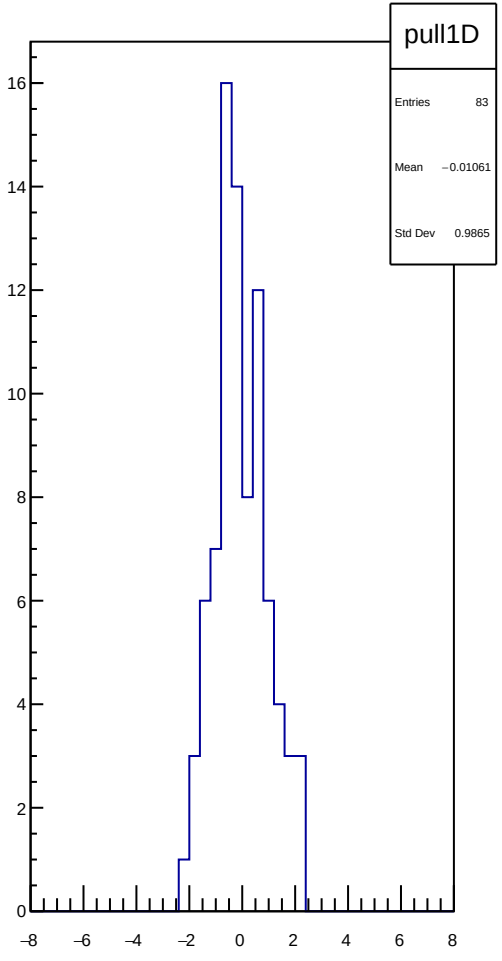

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

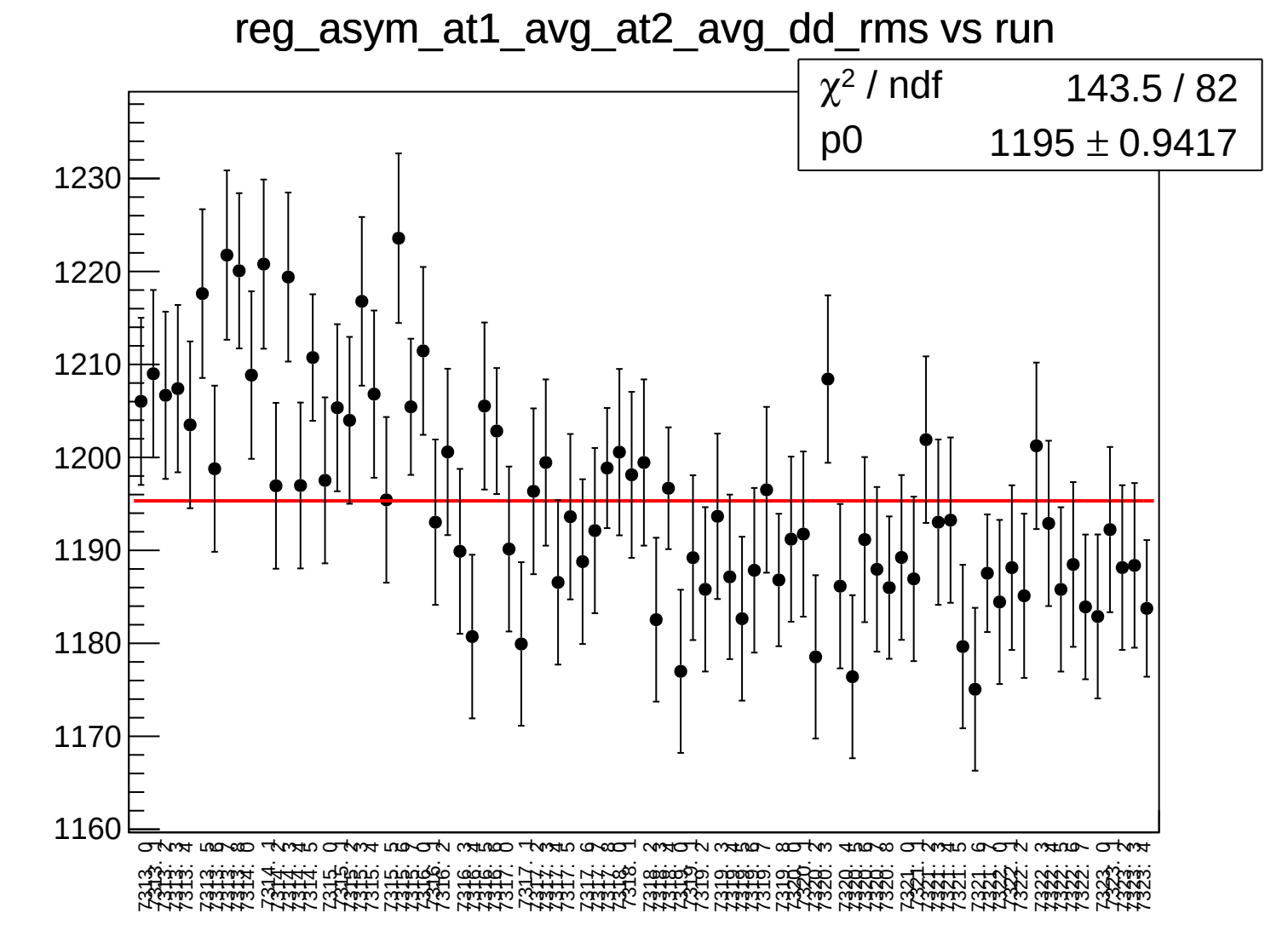

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.52 / 82
p0 1.181e−14 ± 1.433e−14
pull
Entries 83
Mean 248
Std Dev 0

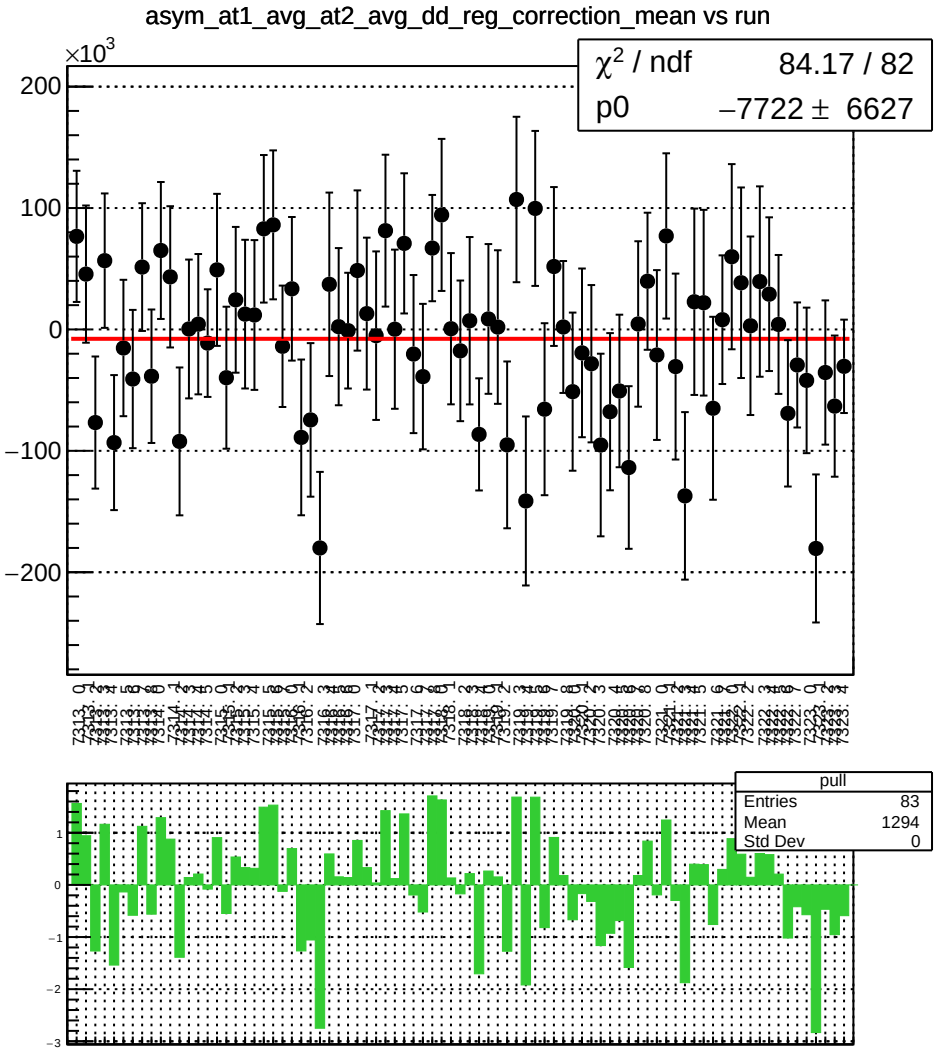

pull1D
Entries 83
Mean −0.01329
Std Dev 0.9663

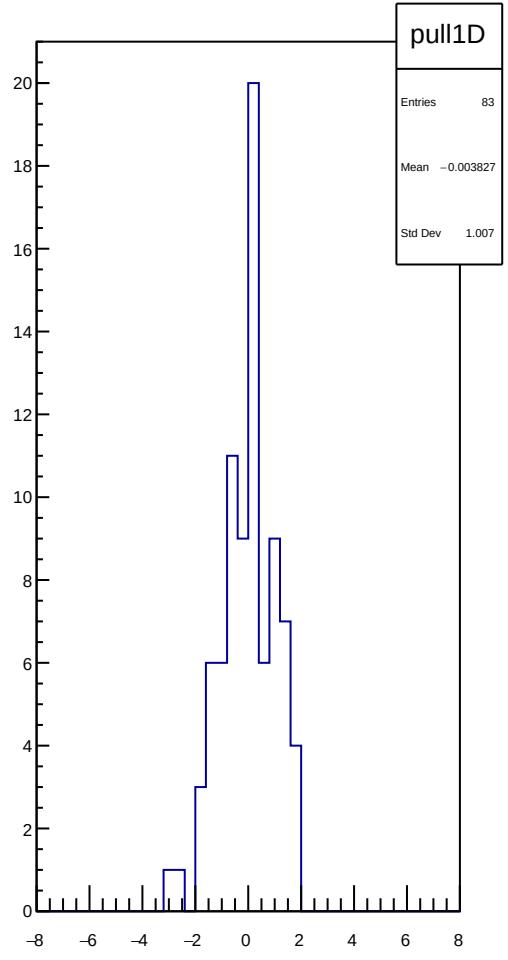

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.579e+05 / 82
p0 1.088e−11 ± 1.013e−14
70
60
50
40
30
20
10

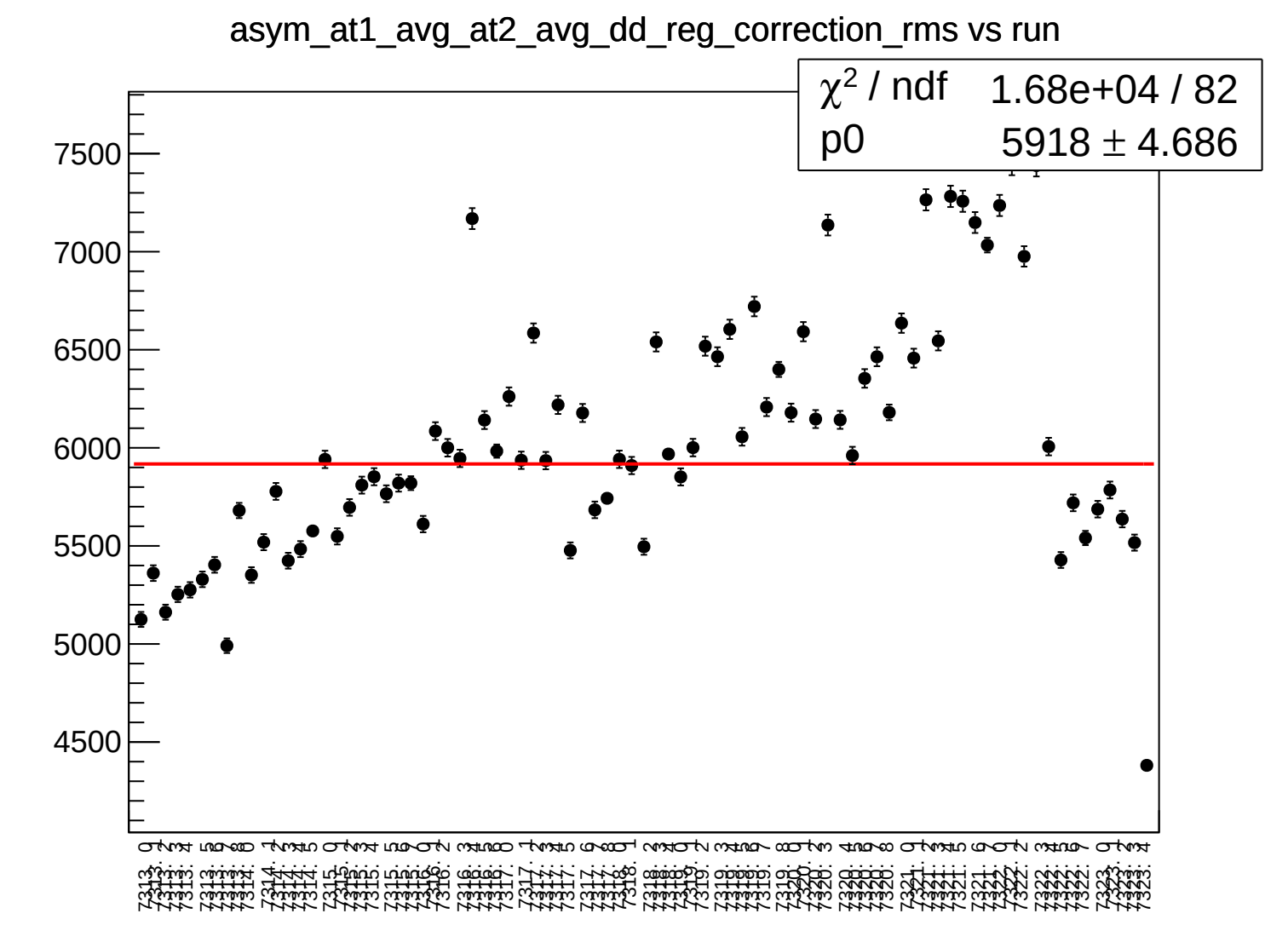

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 80.78 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.4
Std Dev 0

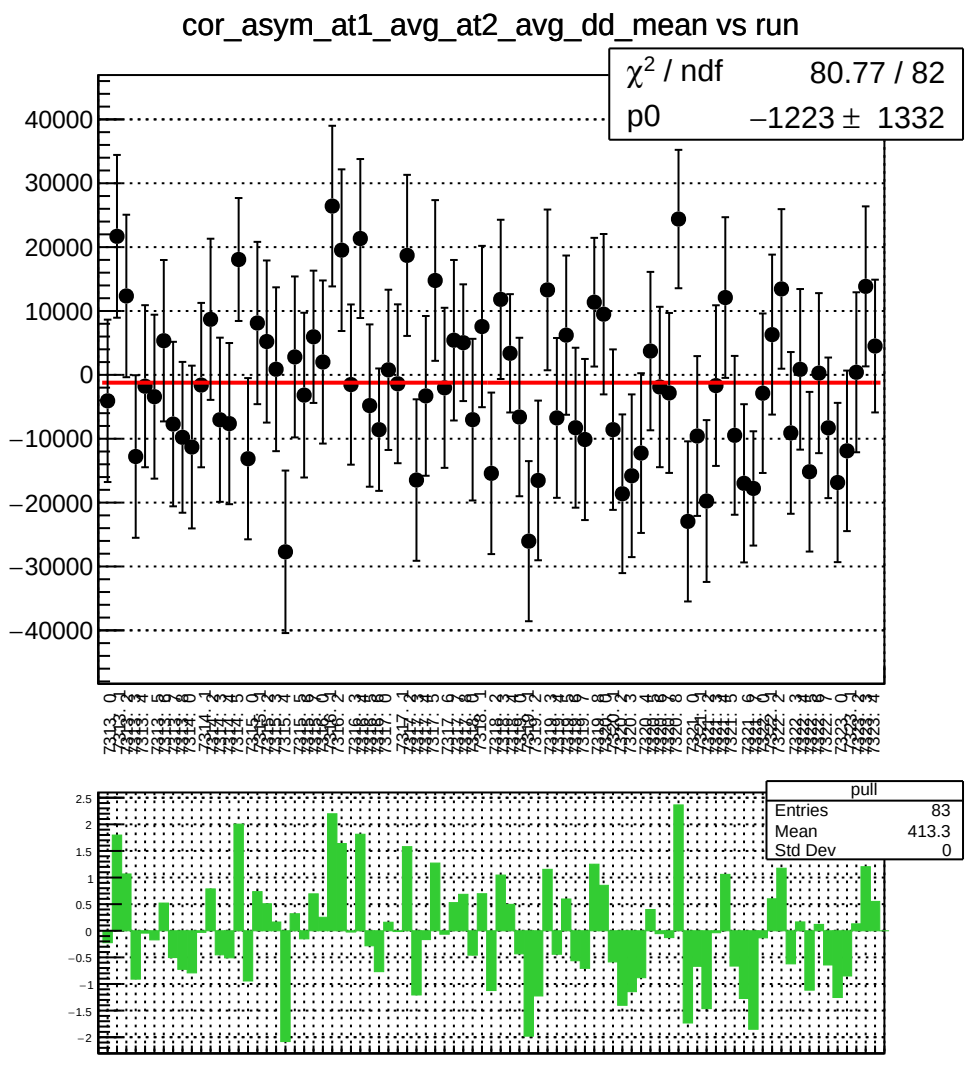

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9865

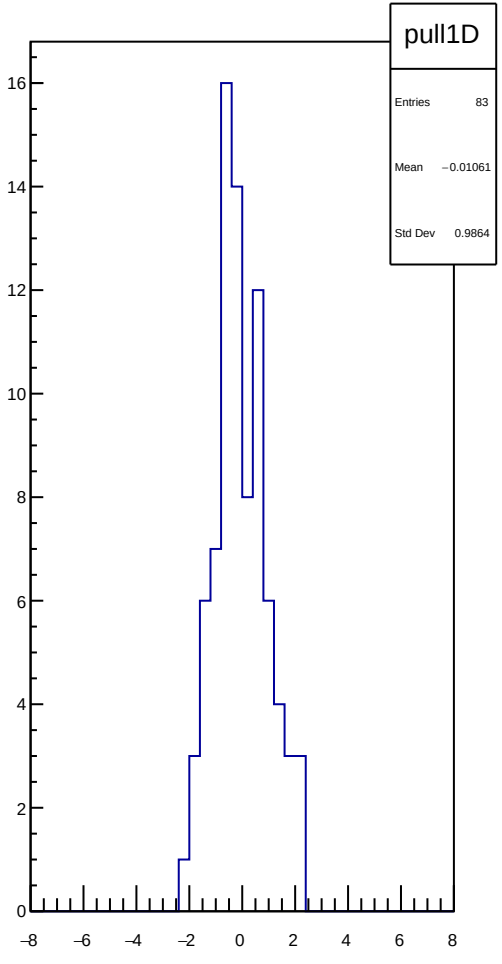

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

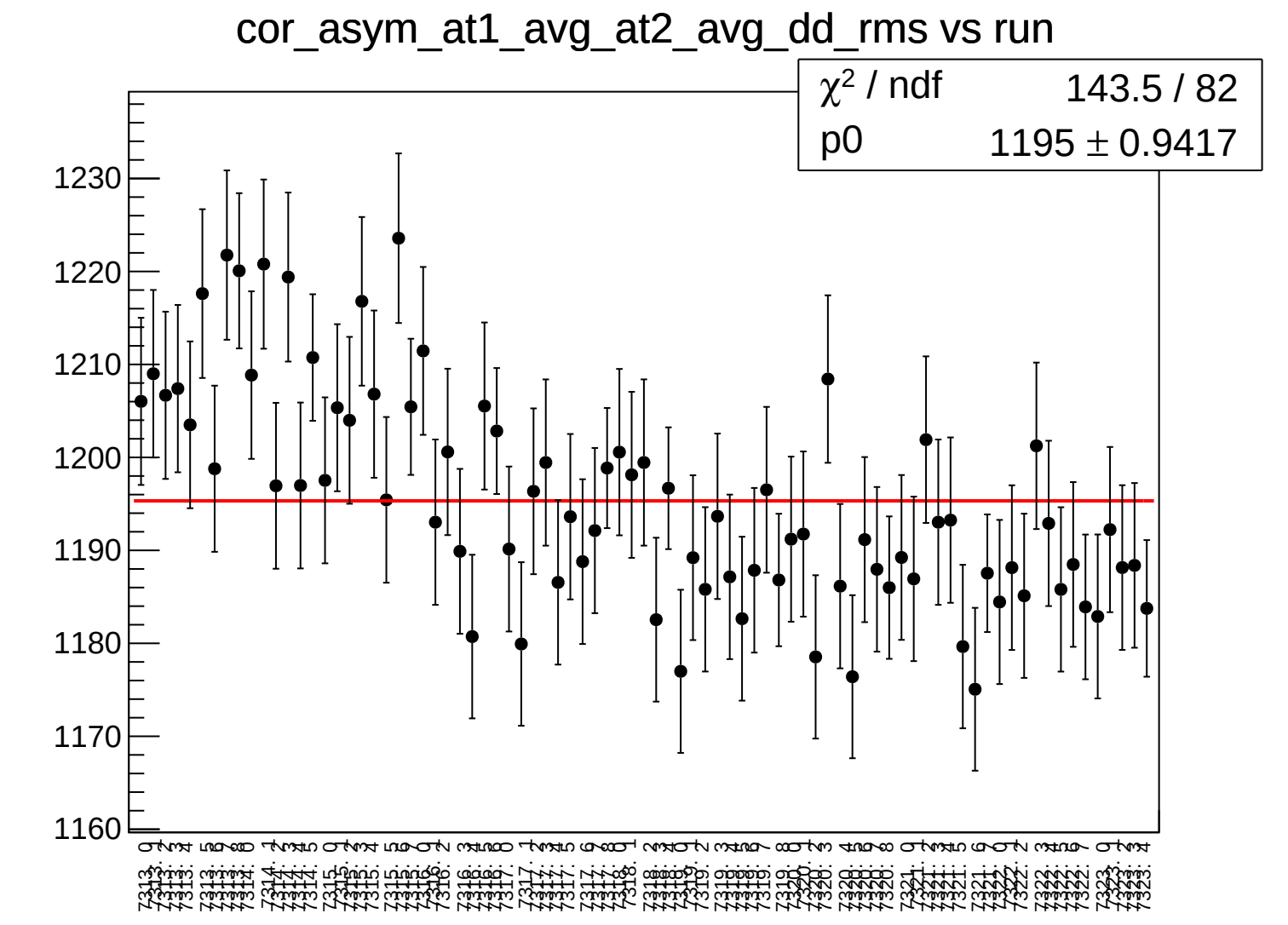

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1294
Std Dev 0

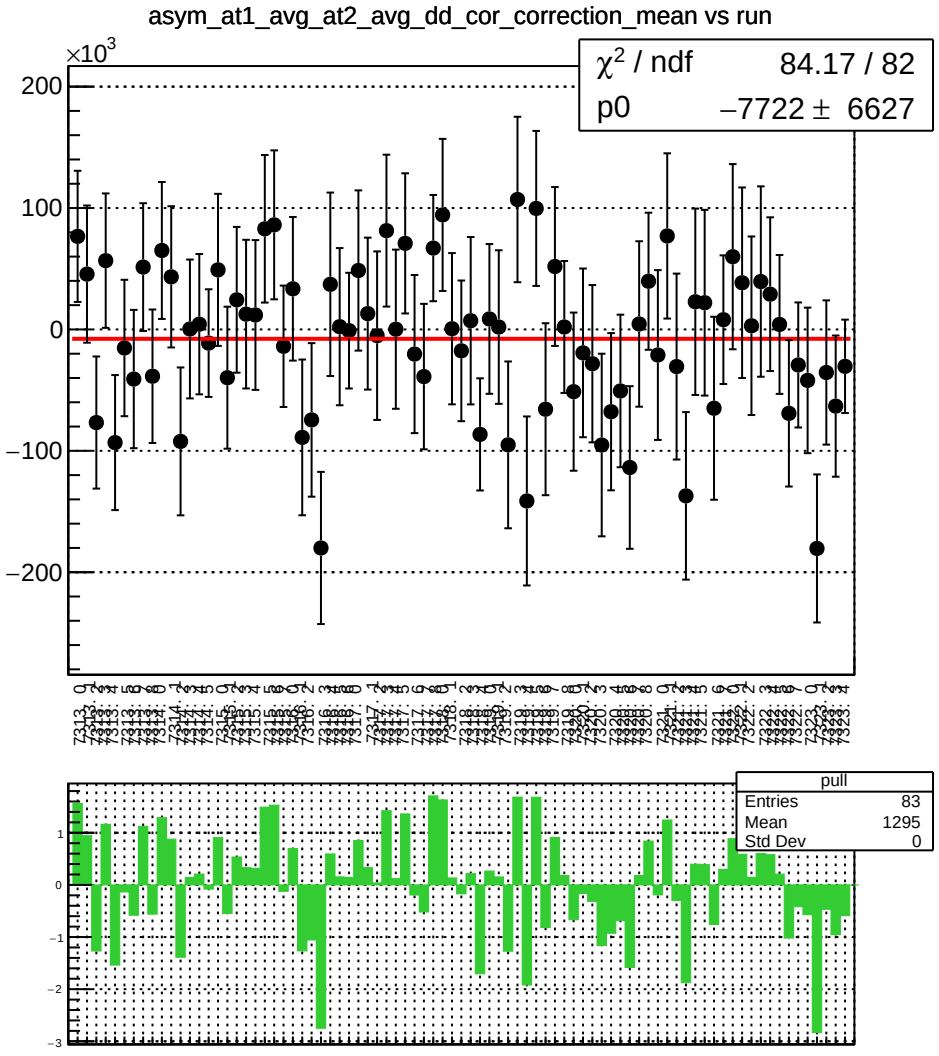

pull1D
Entries 83
Mean −0.003827
Std Dev 1.007

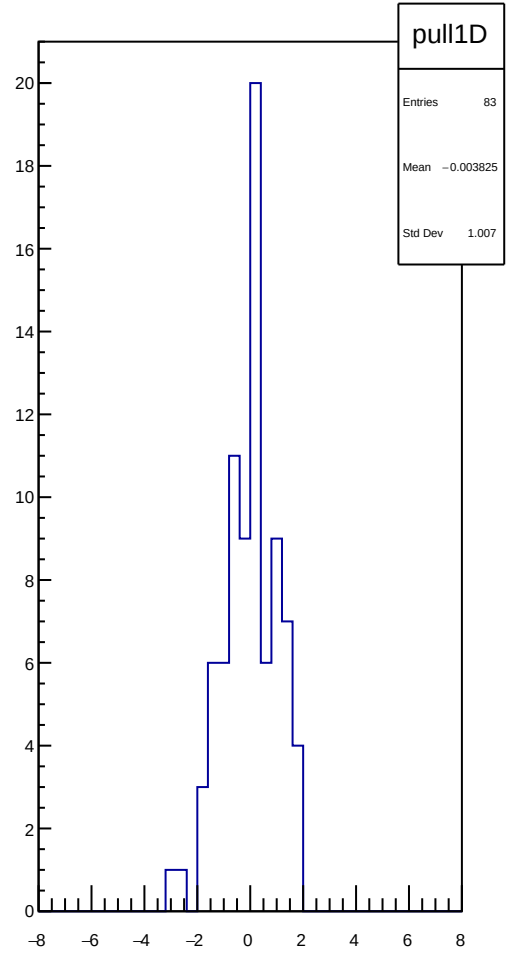

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

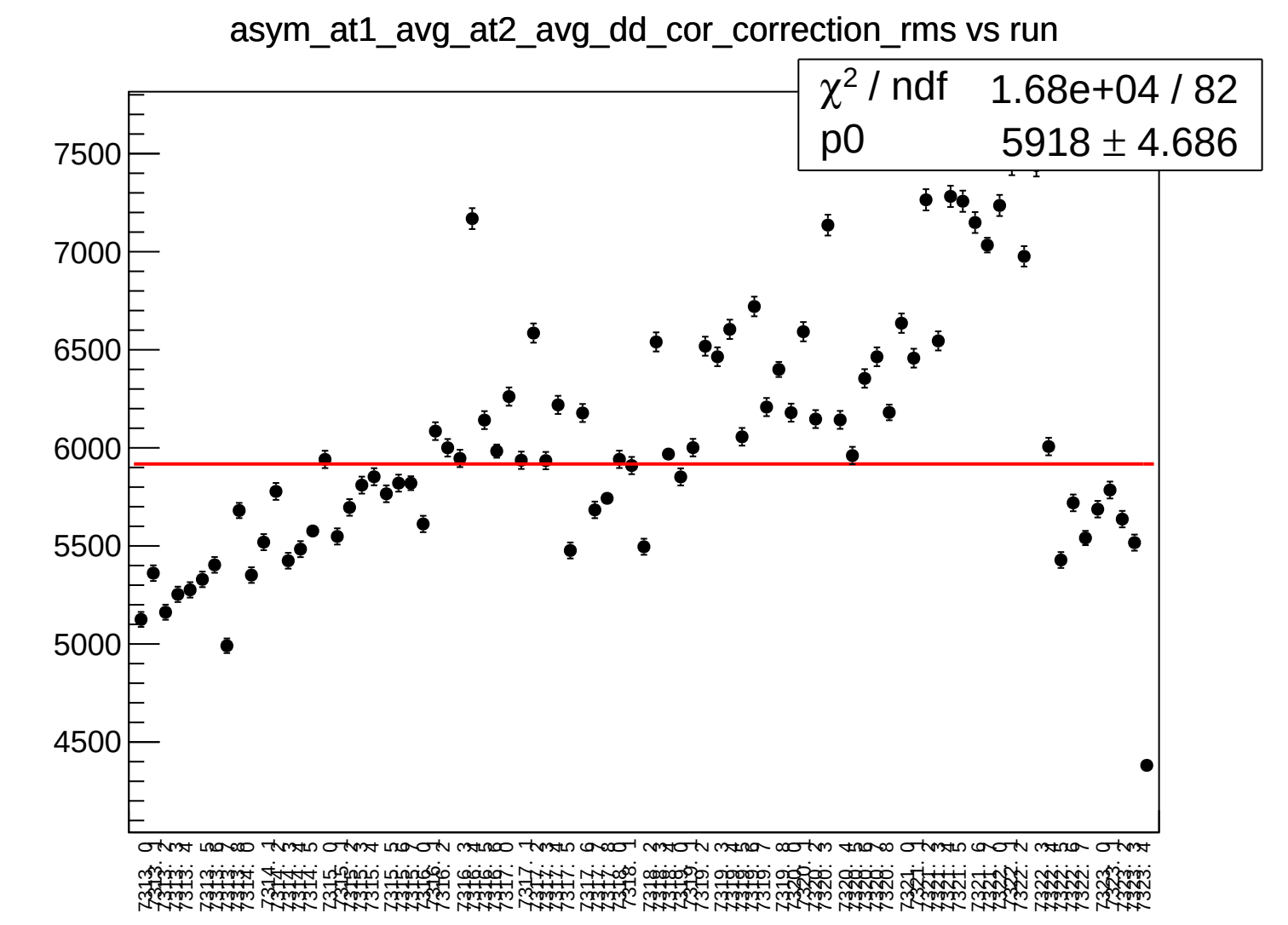

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 80.77 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.3
Std Dev 0

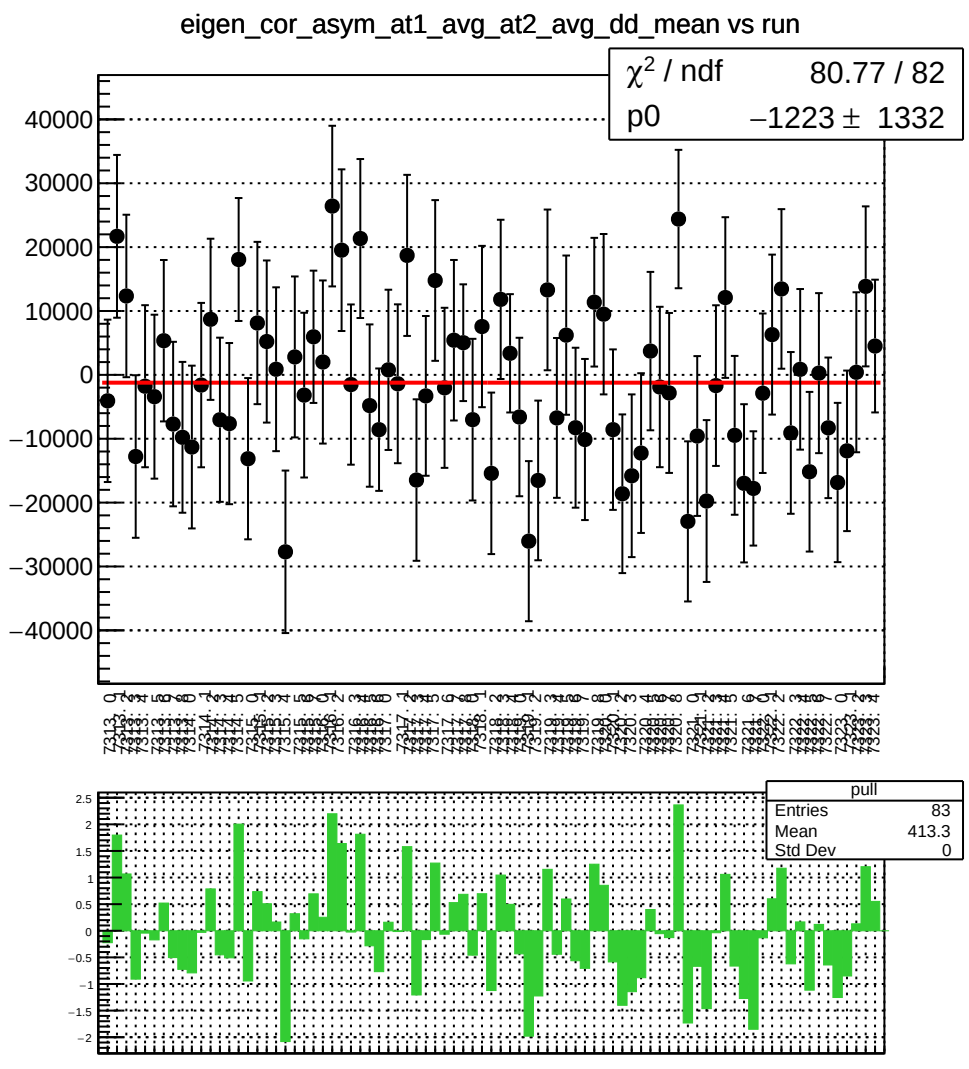

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9864

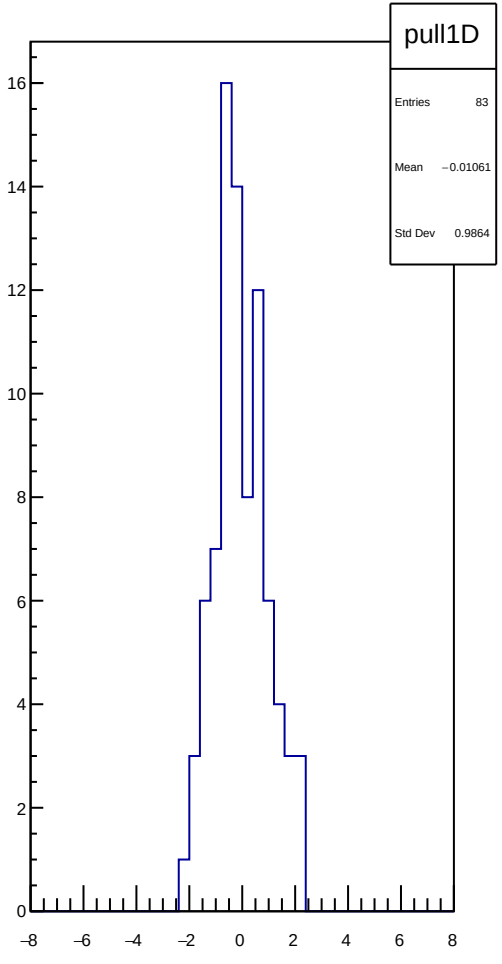

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

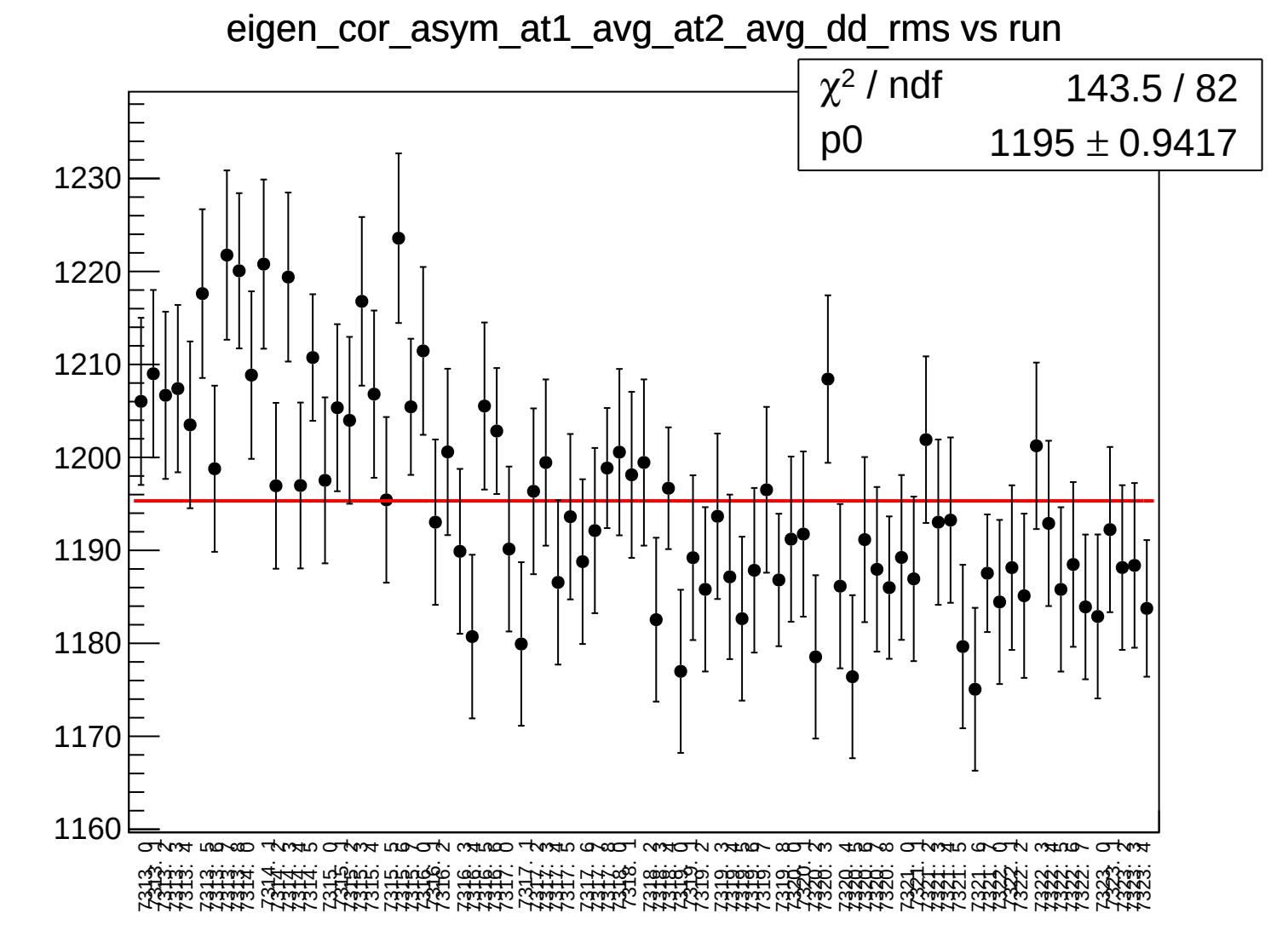

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1295
Std Dev 0

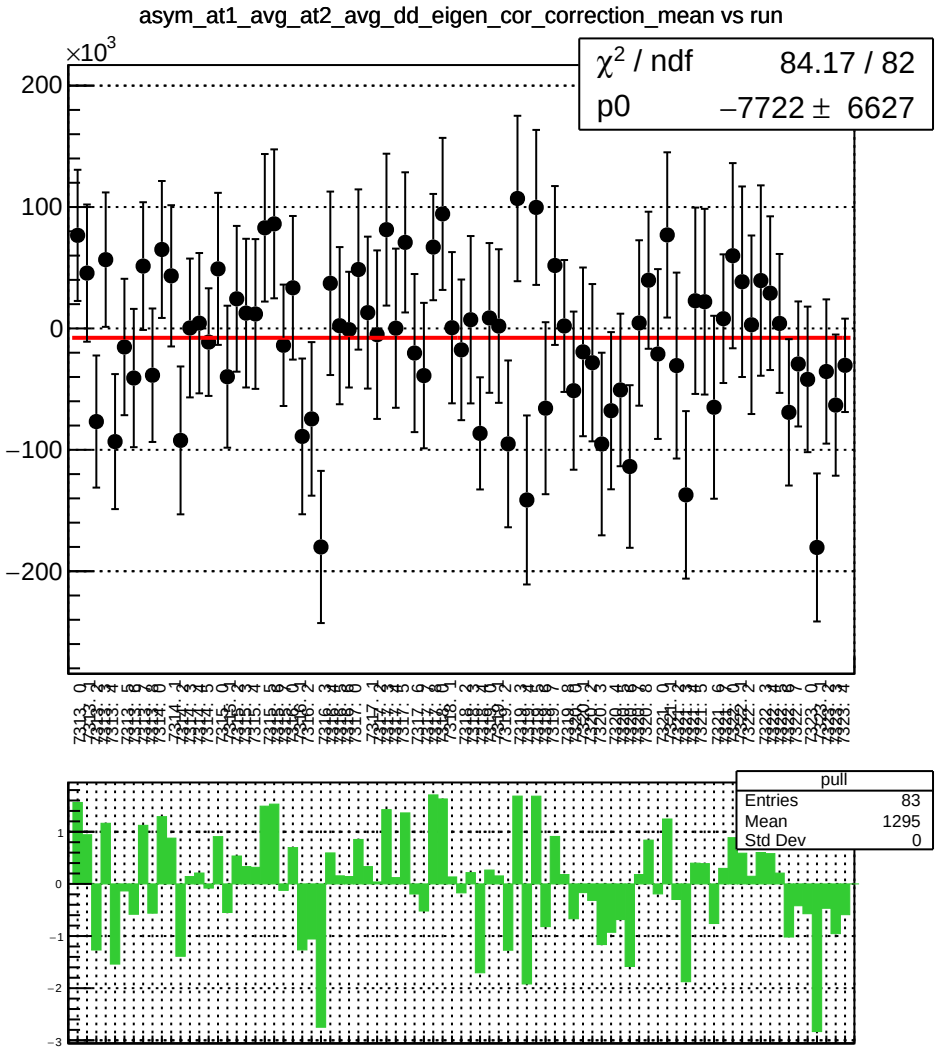

pull1D
Entries 83
Mean −0.003825
Std Dev 1.007

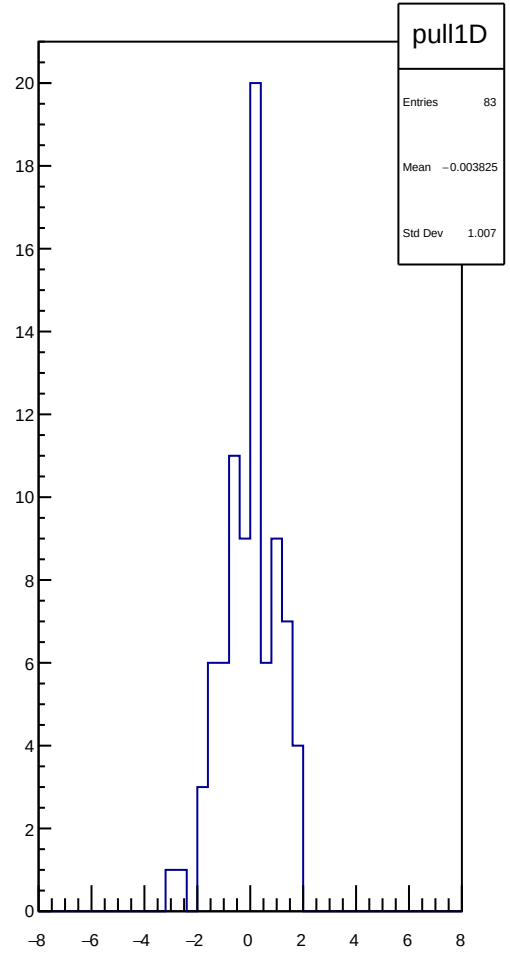

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

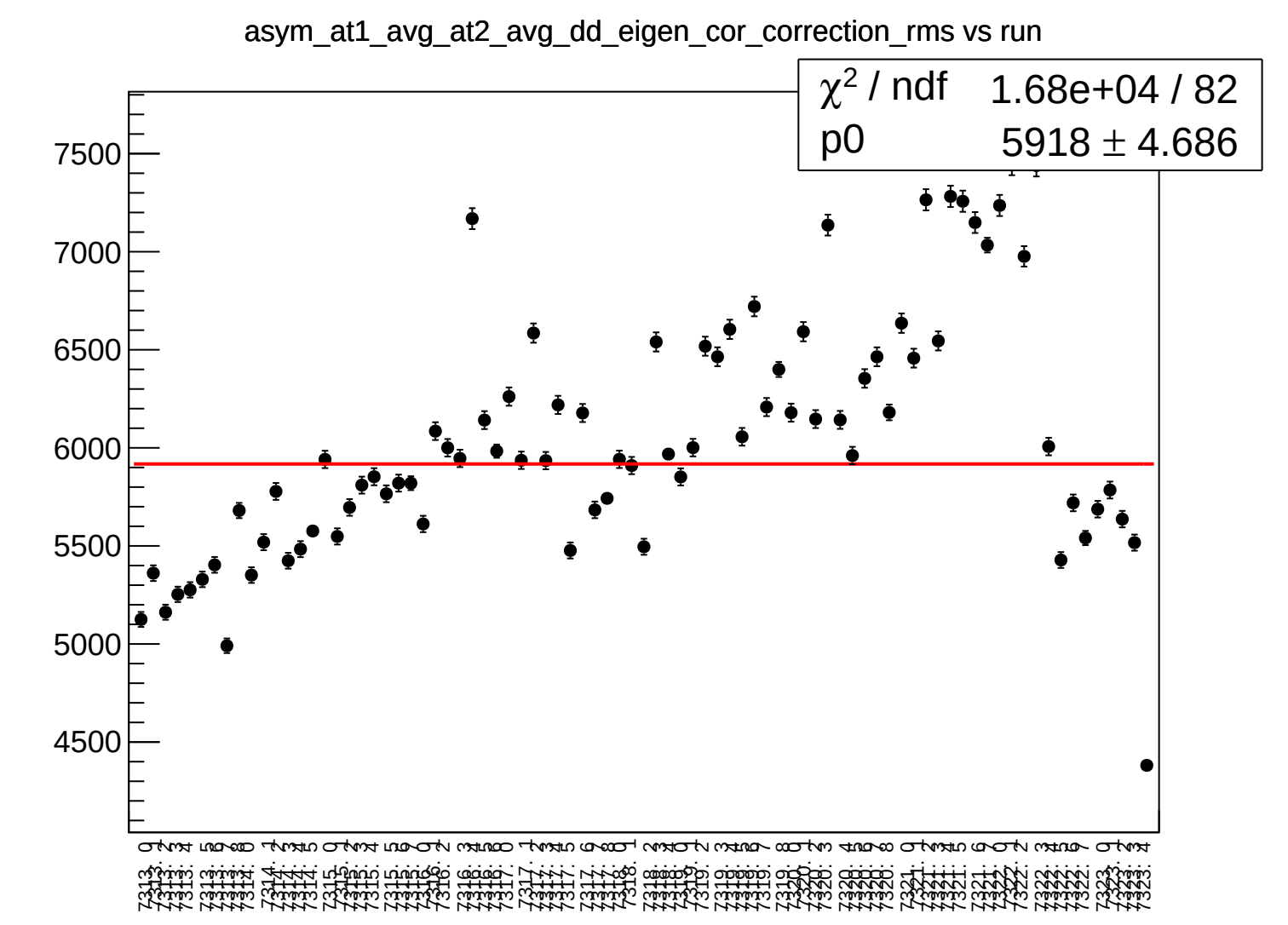

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 80.77 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.3
Std Dev 0

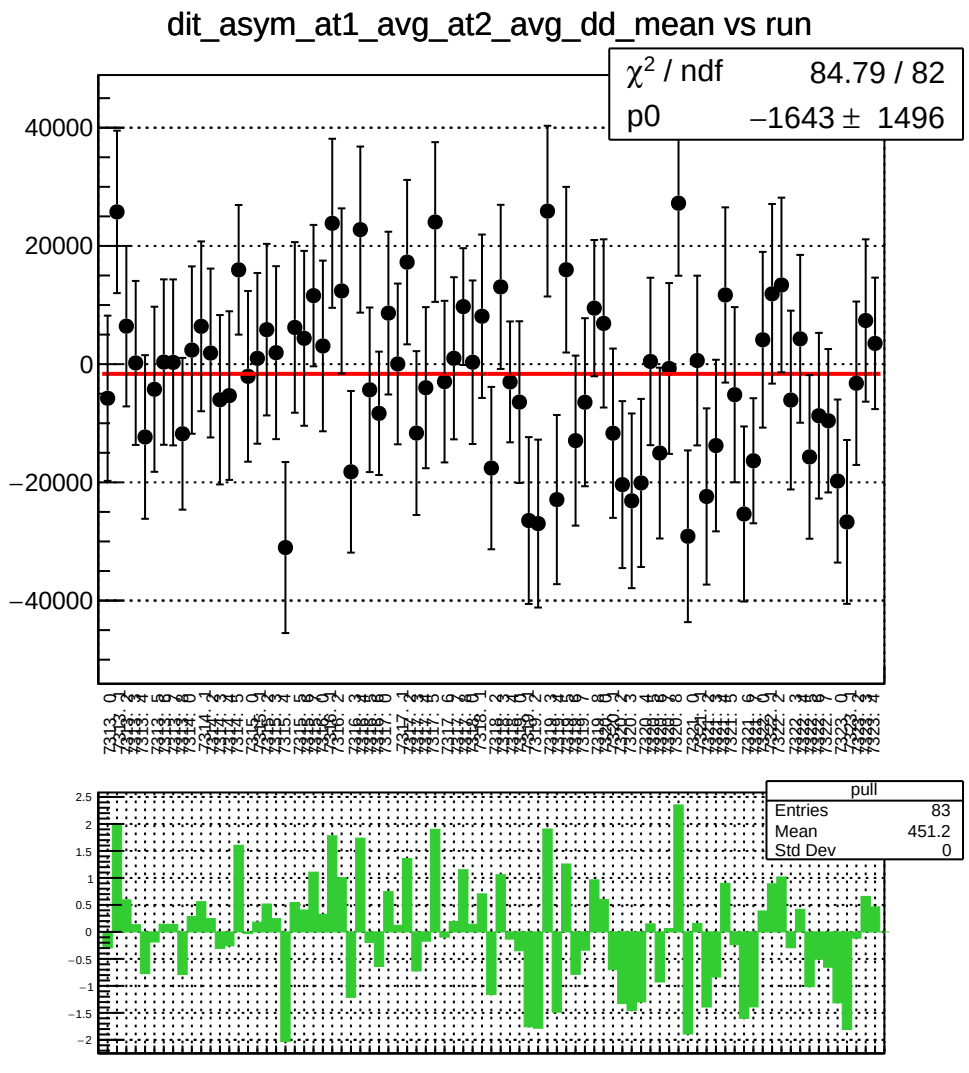

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9864

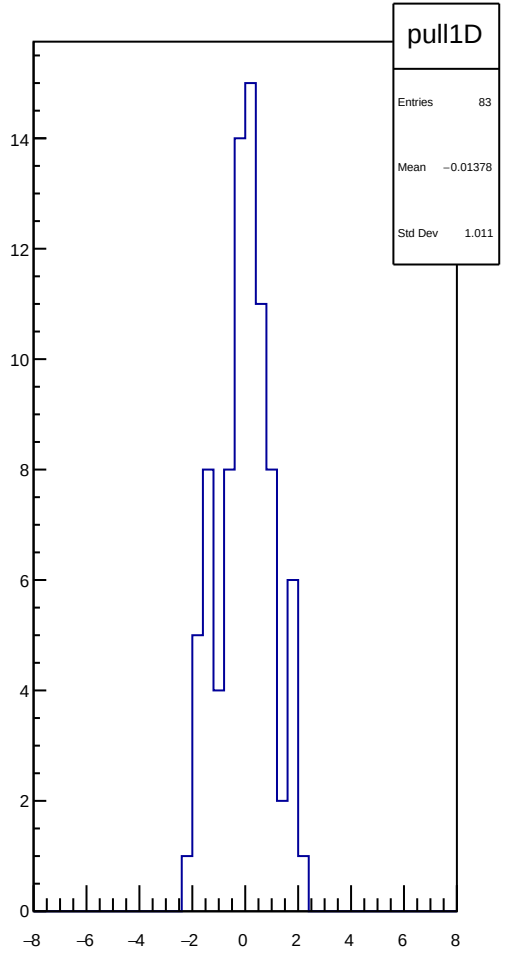

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

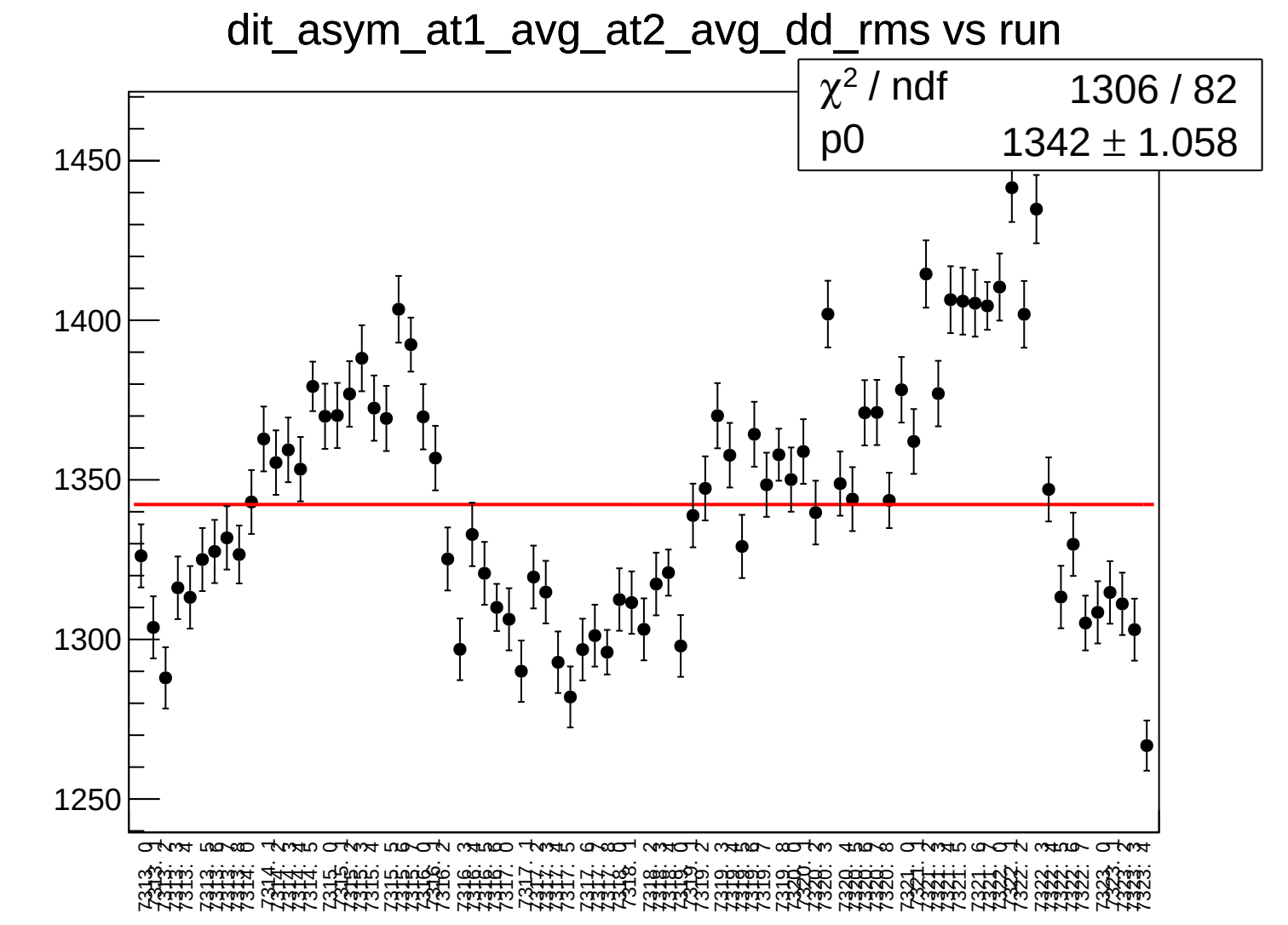

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1295
Std Dev 0

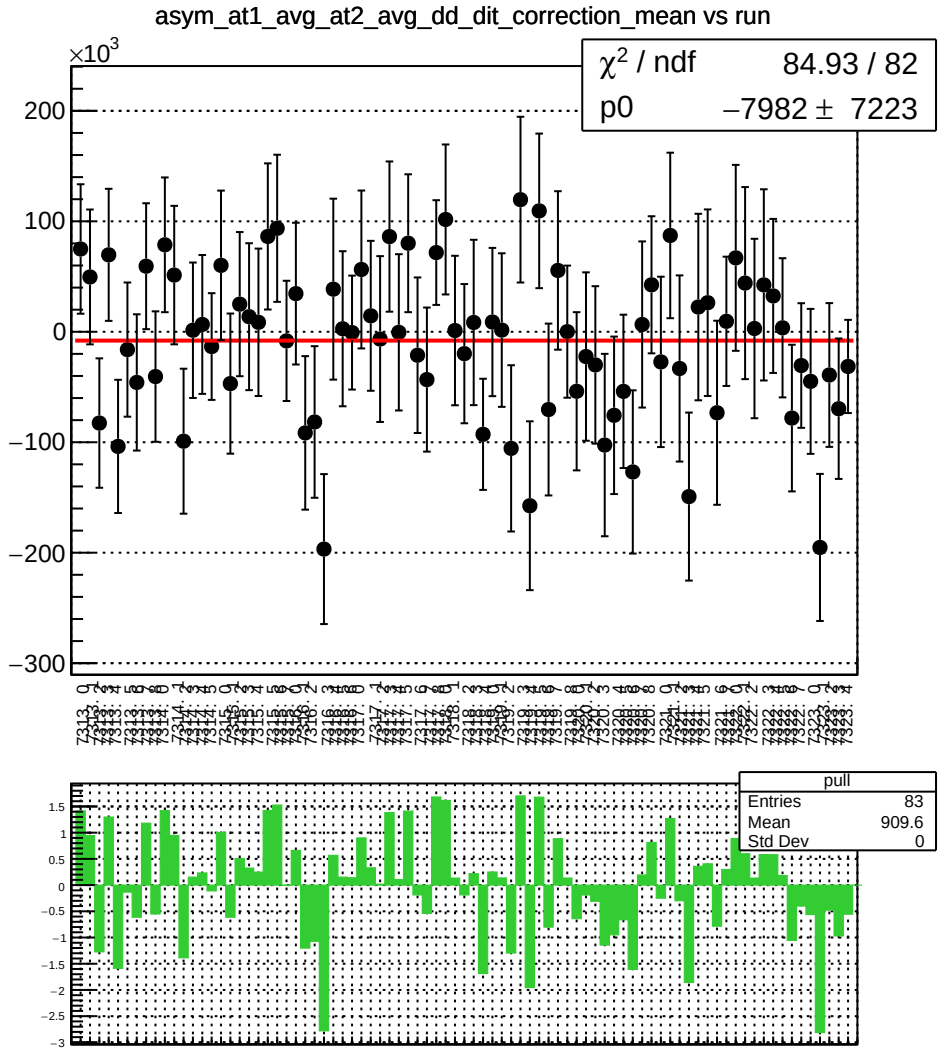

pull1D
Entries 83
Mean −0.003825
Std Dev 1.007

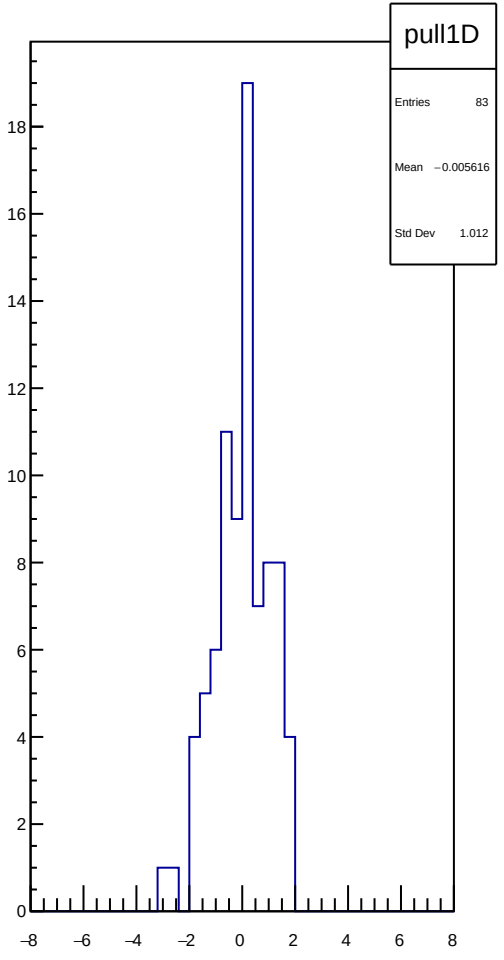

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

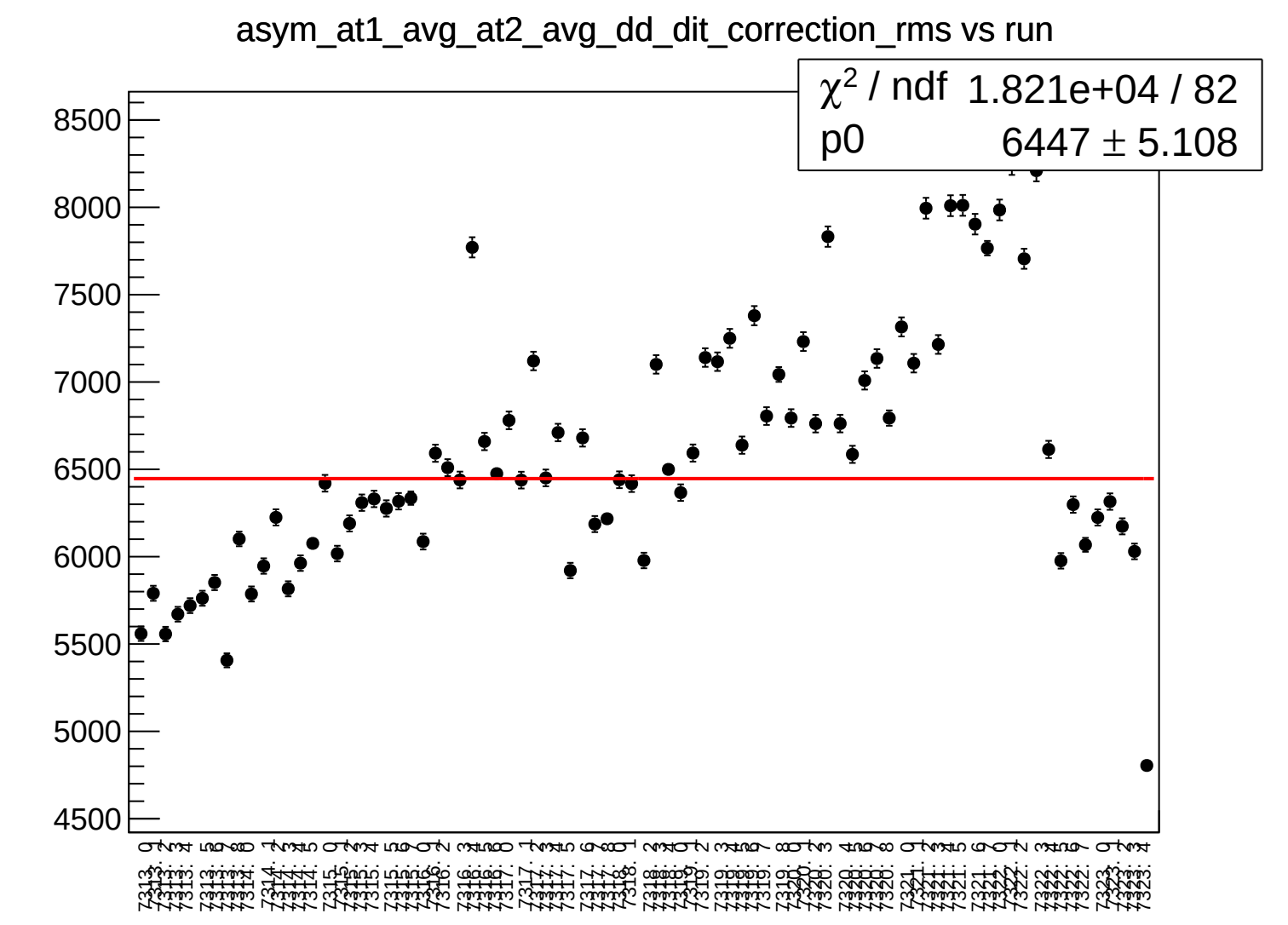

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.79 / 82
p0 −1643 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 451.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

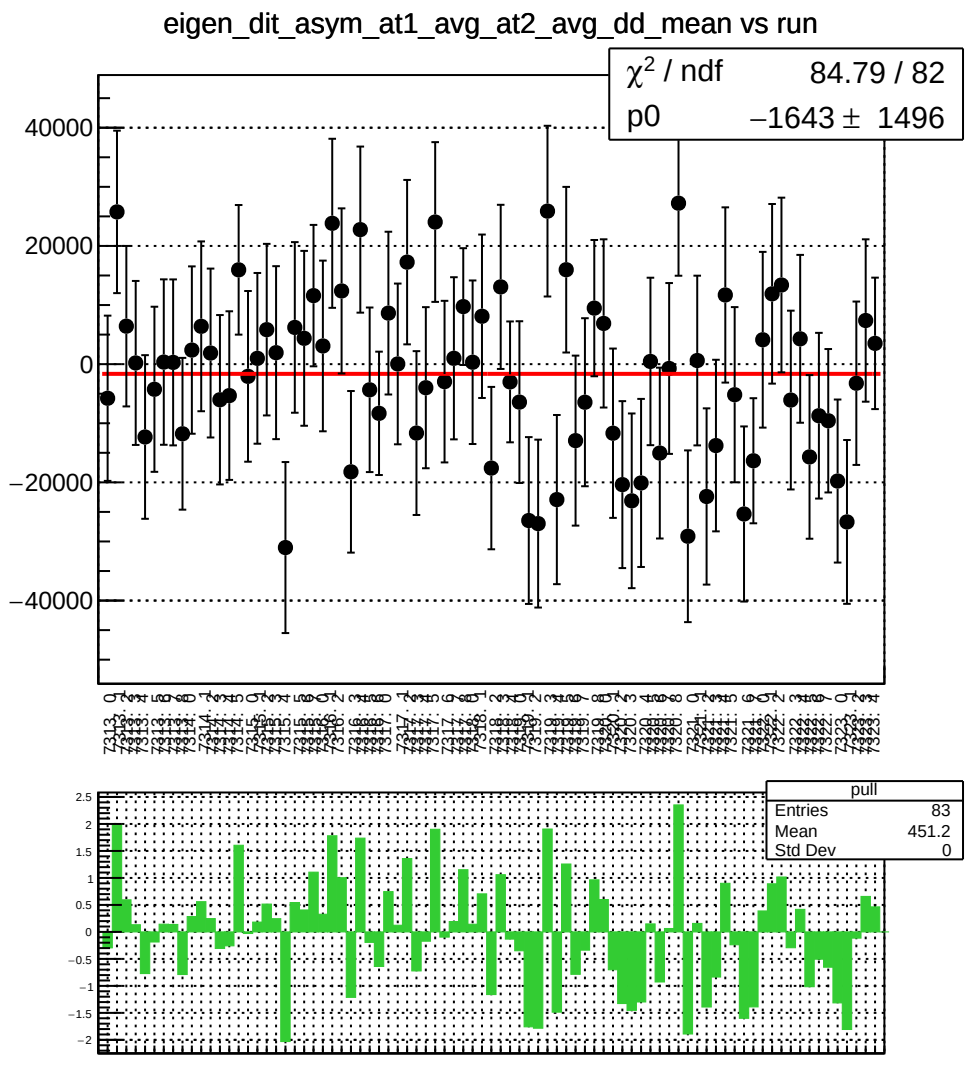

pull1D
Entries 83
Mean −0.01378
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

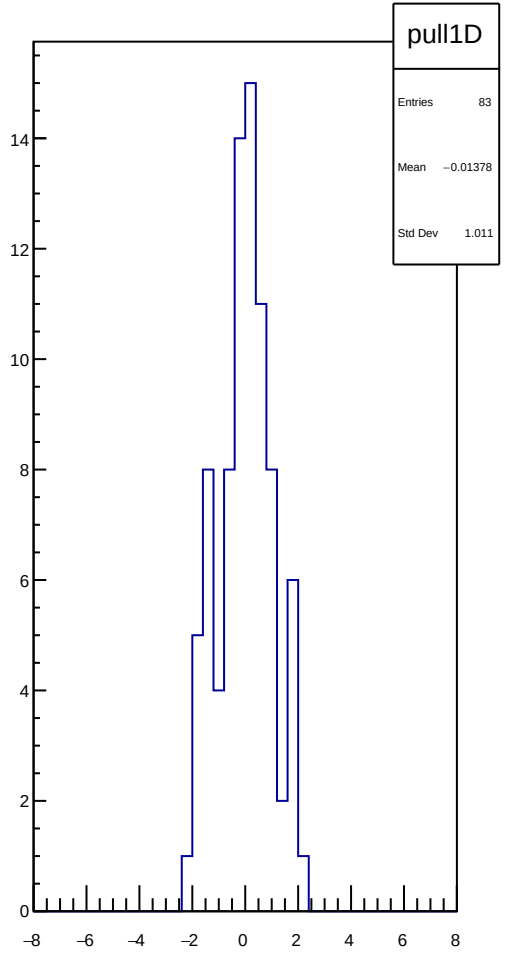

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1306 / 82
p0 1342 ± 1.058
1450
1400
1350
1300
1250

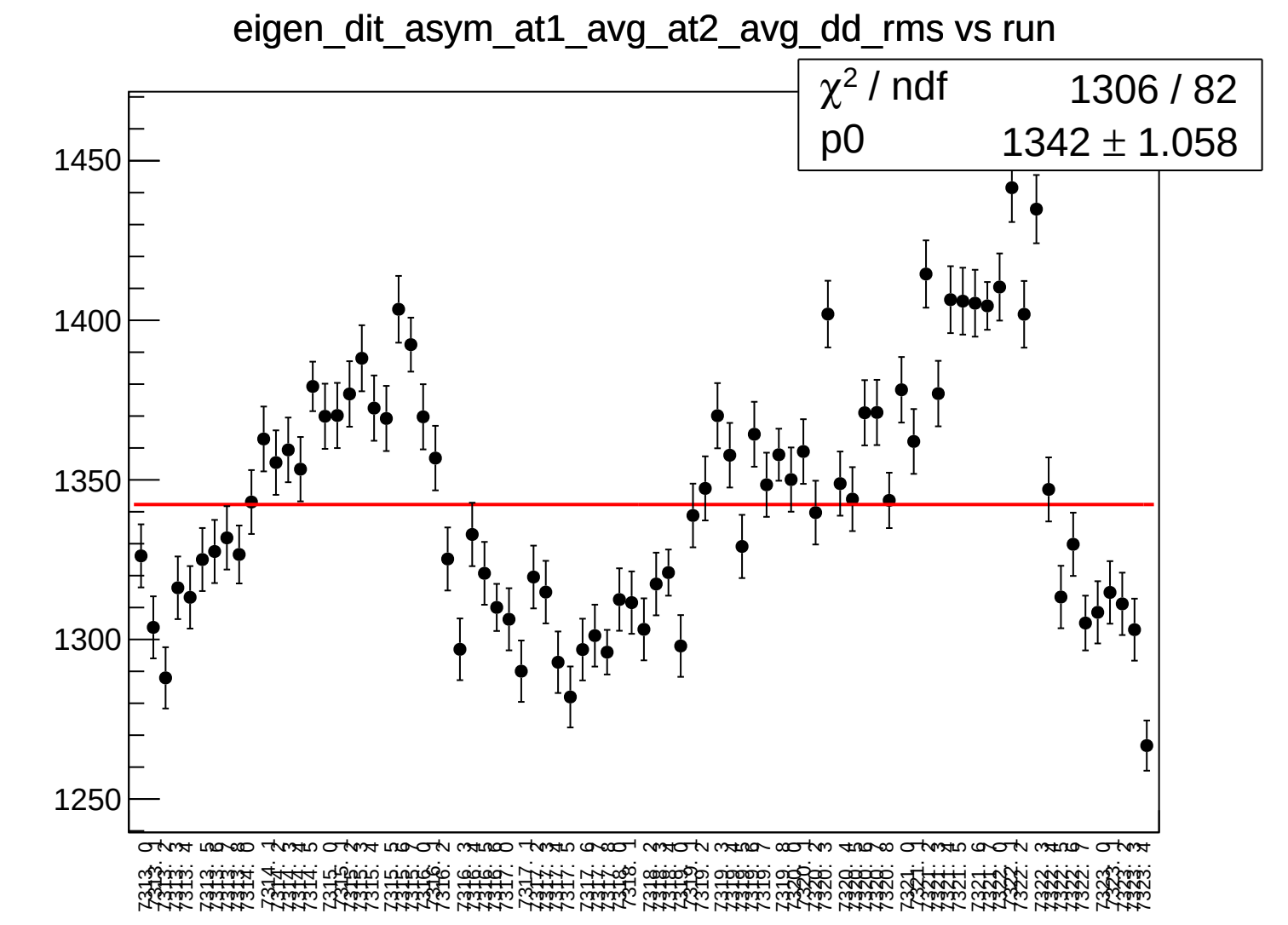

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.93 / 82
p0 −7982 ± 7223
pull
Entries 83
Mean 909.6
Std Dev 0

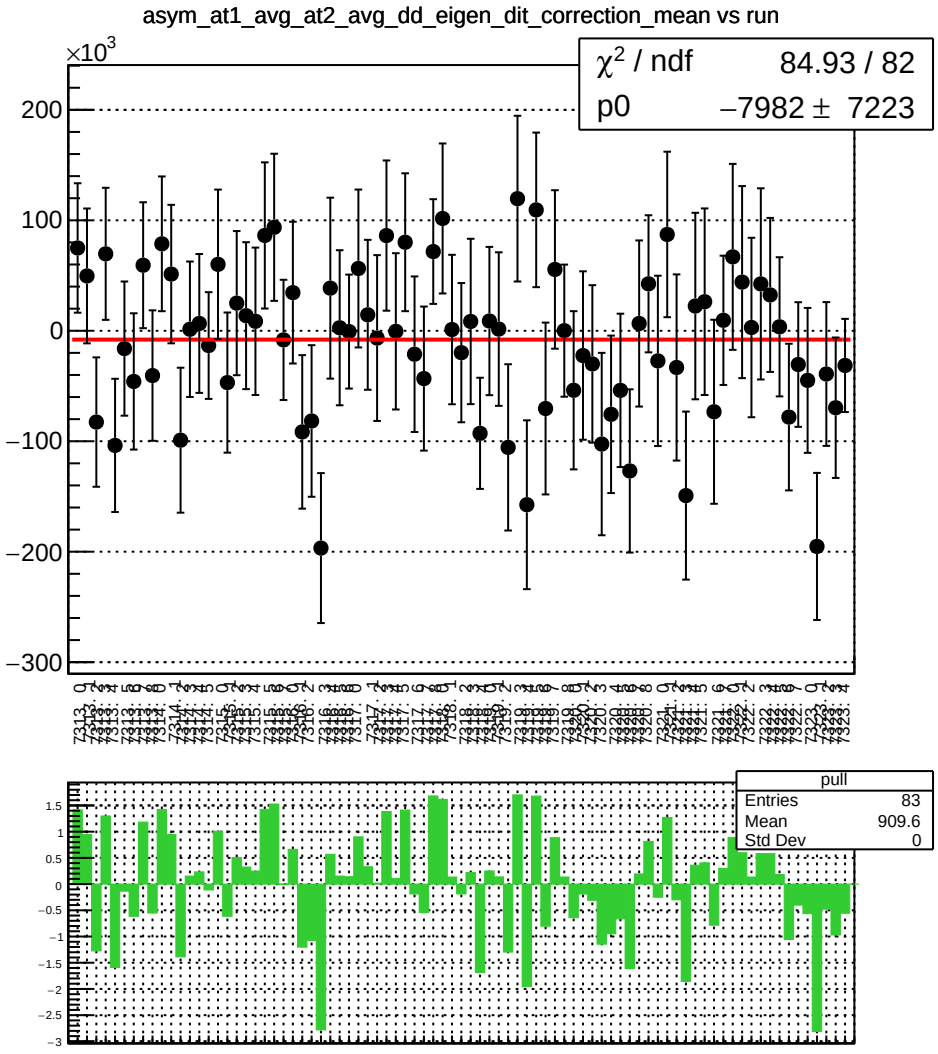

pull1D
Entries 83
Mean −0.005616
Std Dev 1.012

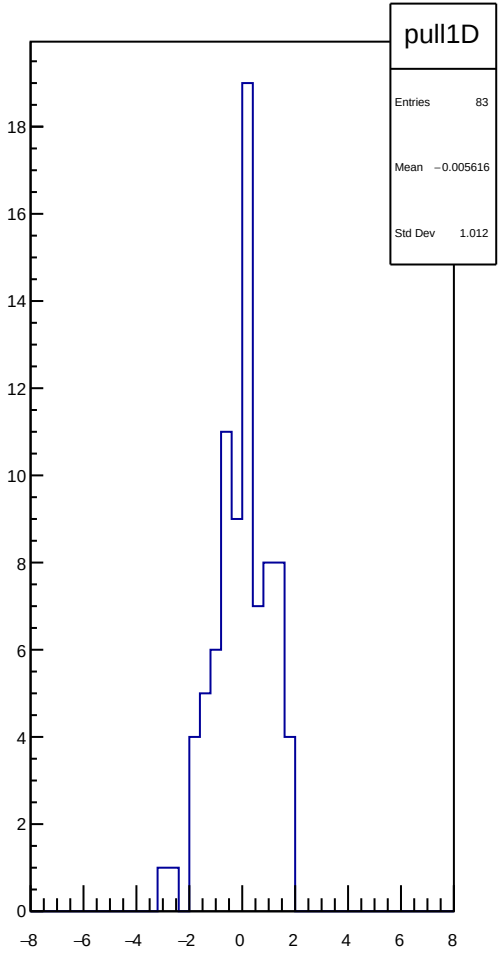

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 82
p0 6447 ± 5.108
8500
8000
7500
7000
6500
6000
5500
5000
4500

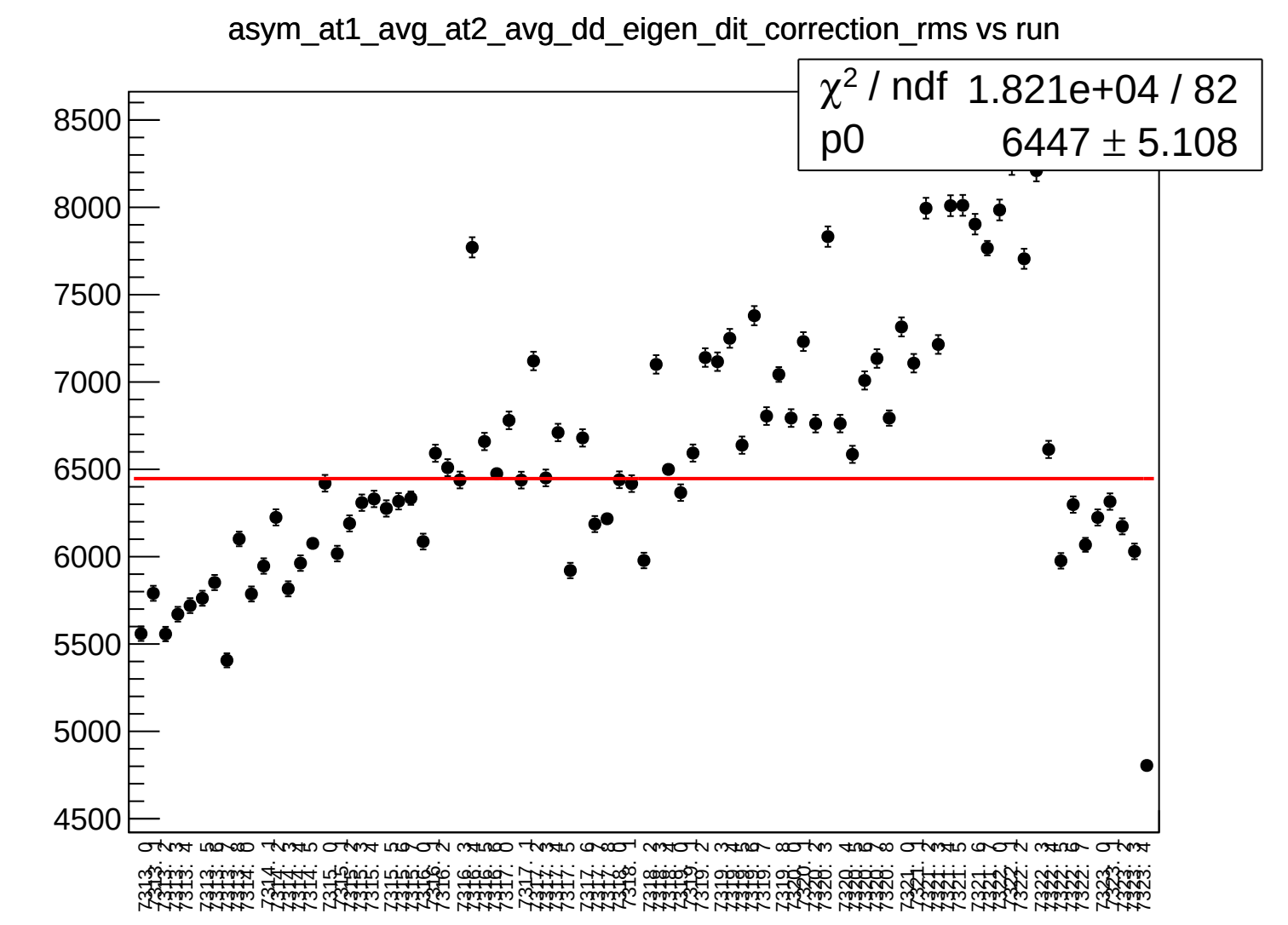

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.79 / 82
p0 −1643 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 451.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

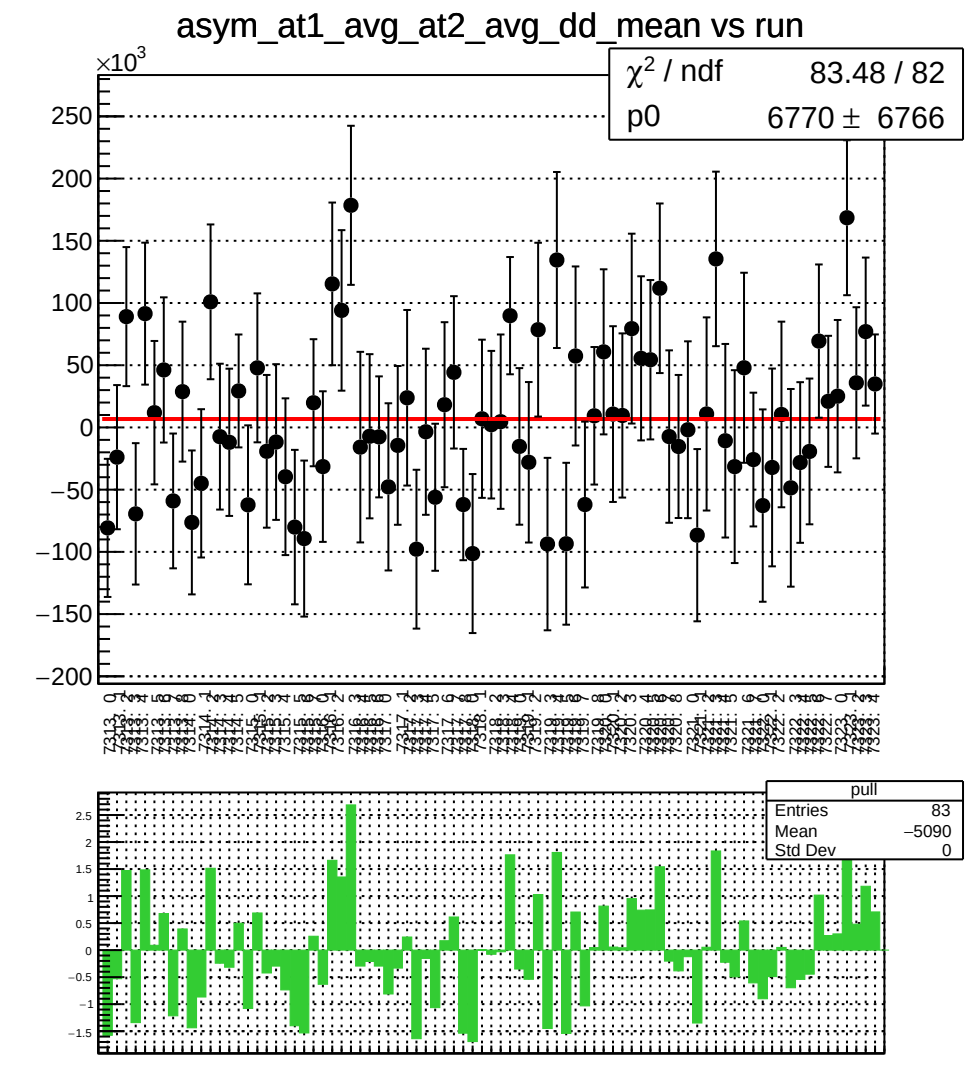

pull1D
Entries 83
Mean −0.01378
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

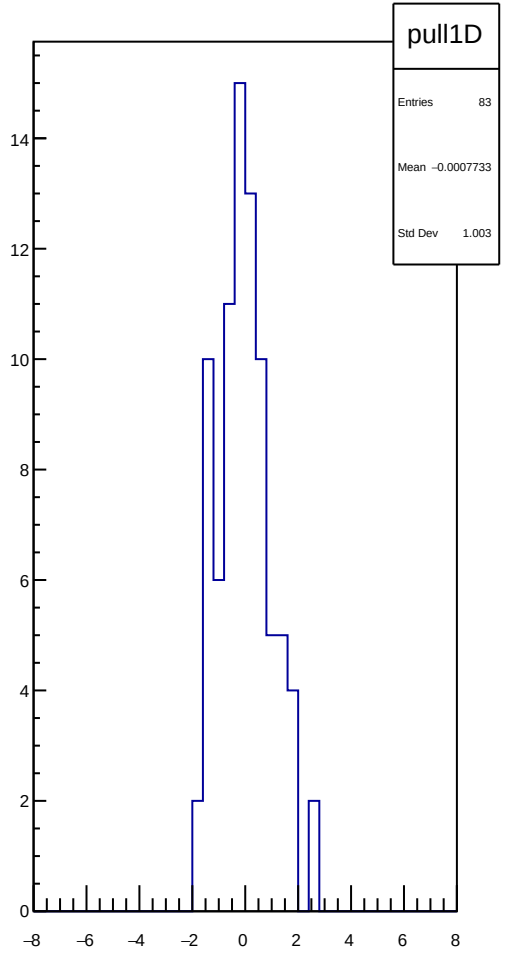

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1306 / 82
p0 1342 ± 1.058
1450
1400
1350
1300
1250

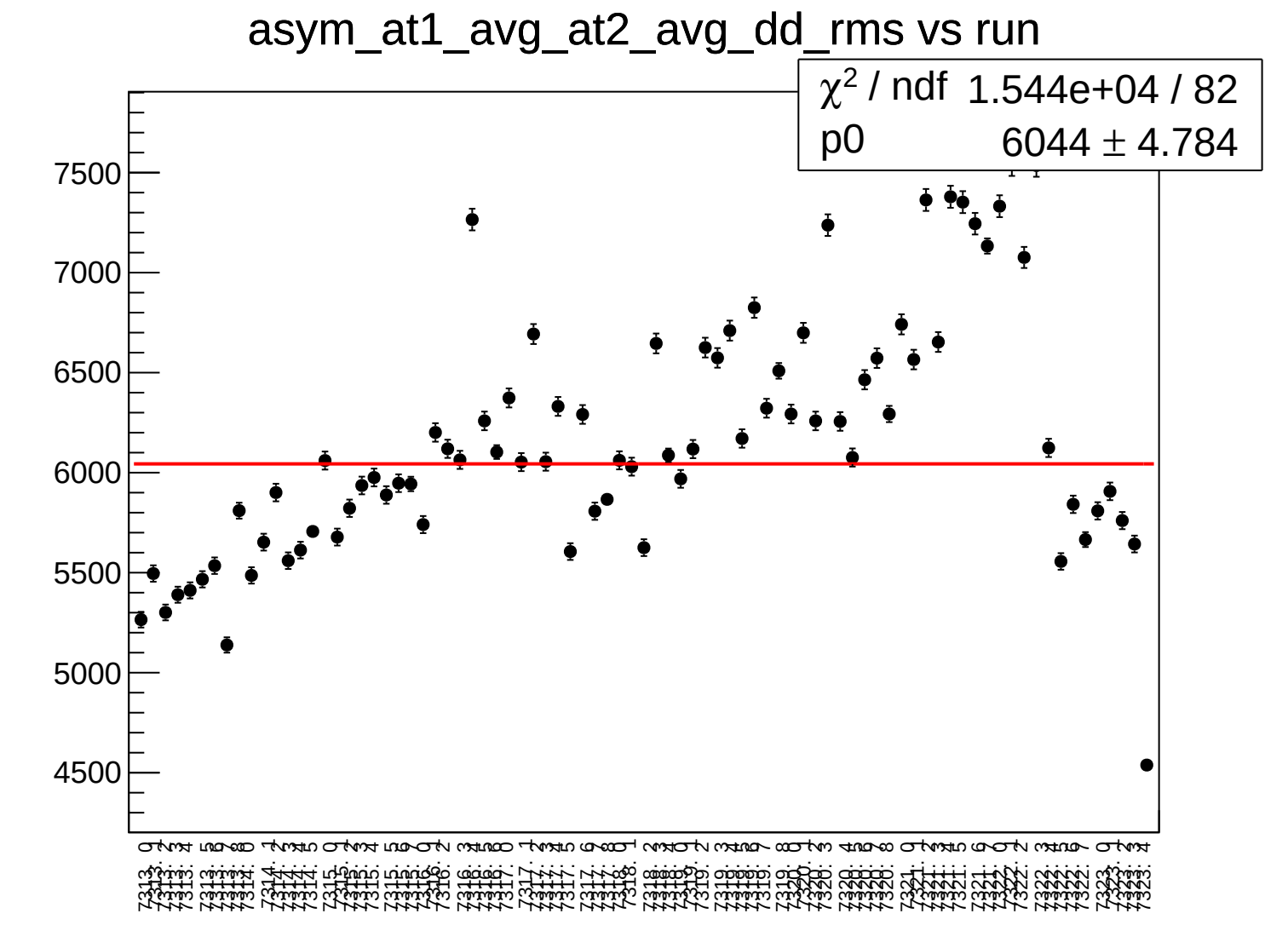

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.93 / 82
p0 −7982 ± 7223
pull
Entries 83
Mean 909.6
Std Dev 0

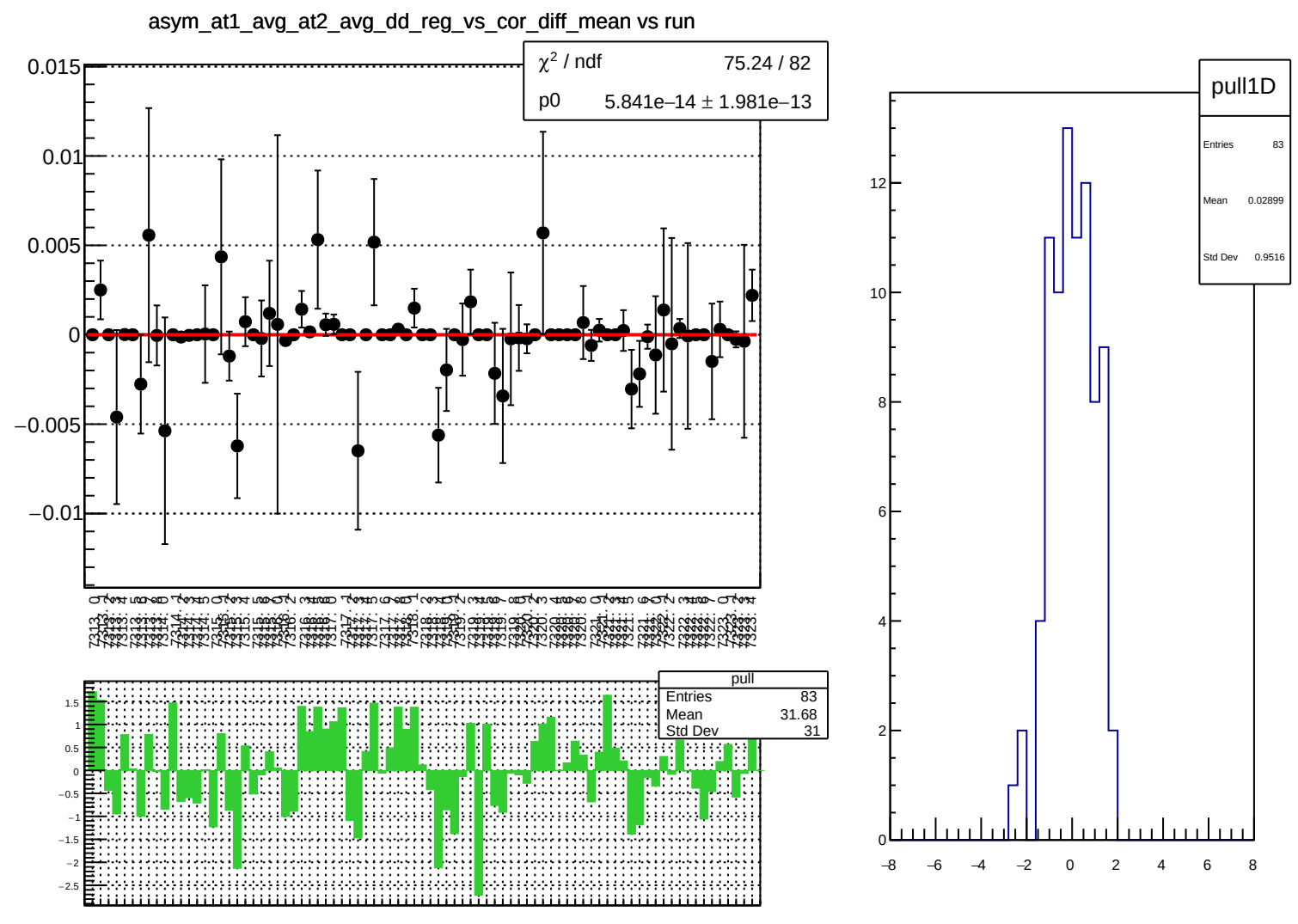

pull1D
Entries 83
Mean −0.005616
Std Dev 1.012

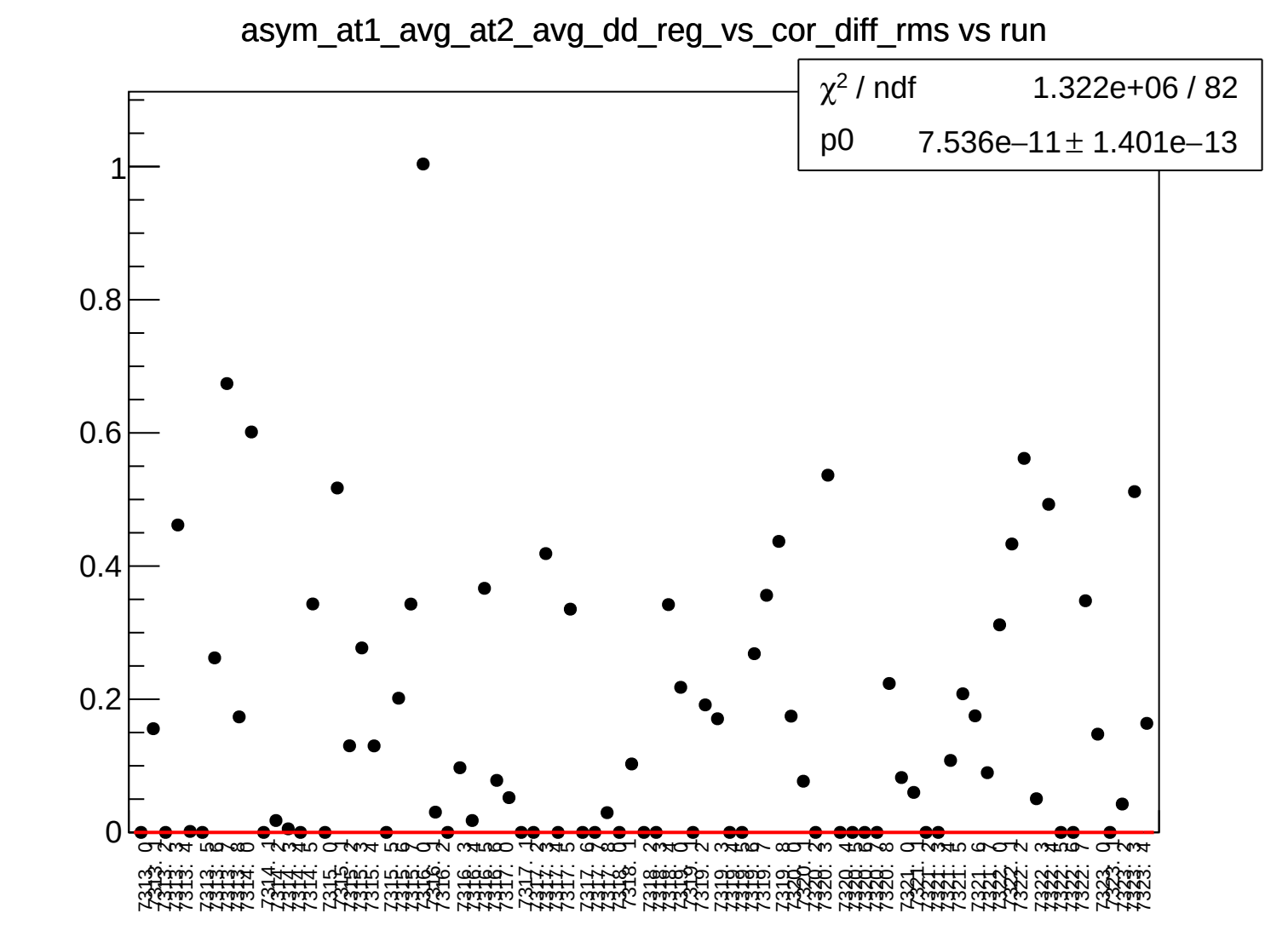

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 82
p0 6447 ± 5.108
8500
8000
7500
7000
6500
6000
5500
5000
4500

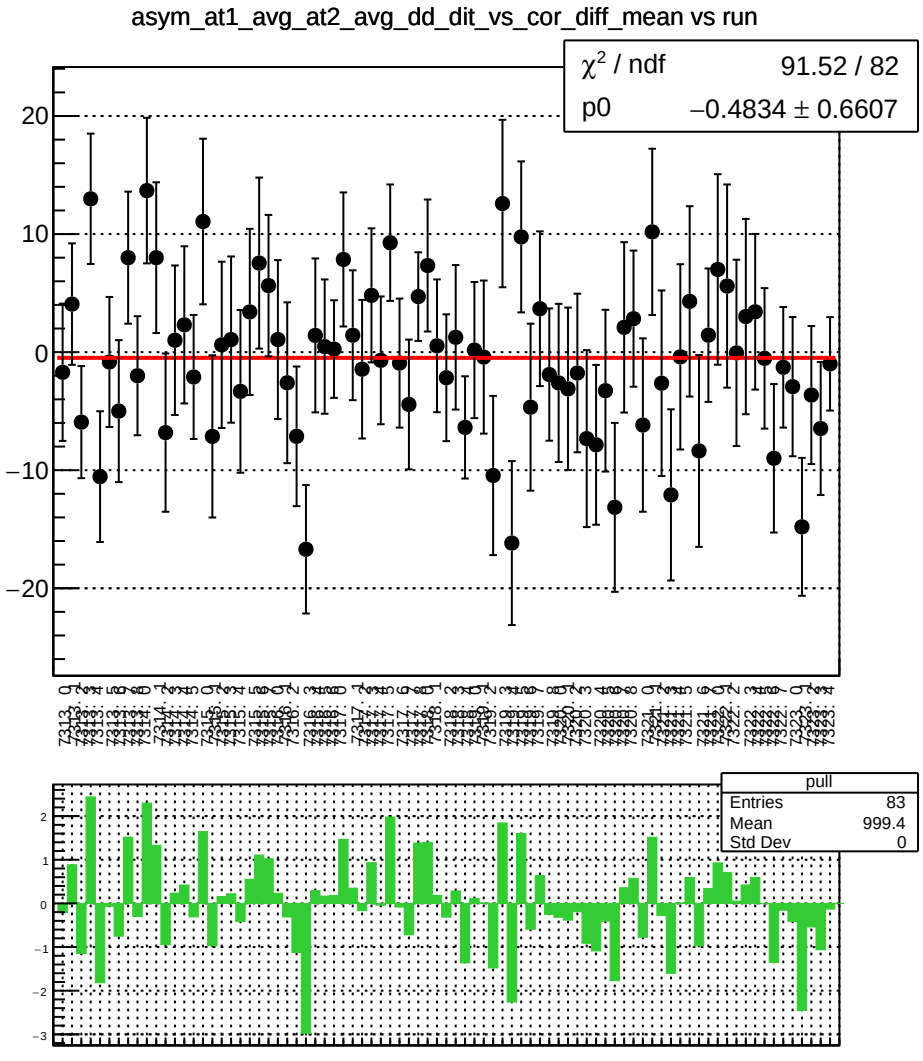

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 83.48 / 82
p0 6770 ± 6766
pull
Entries 83
Mean −5090
Std Dev 0

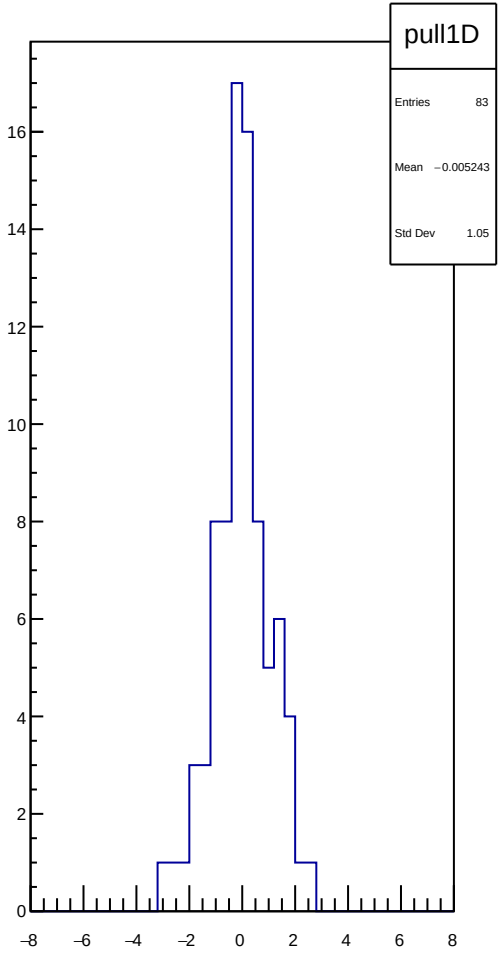

pull1D
Entries 83
Mean −0.0007733
Std Dev 1.003

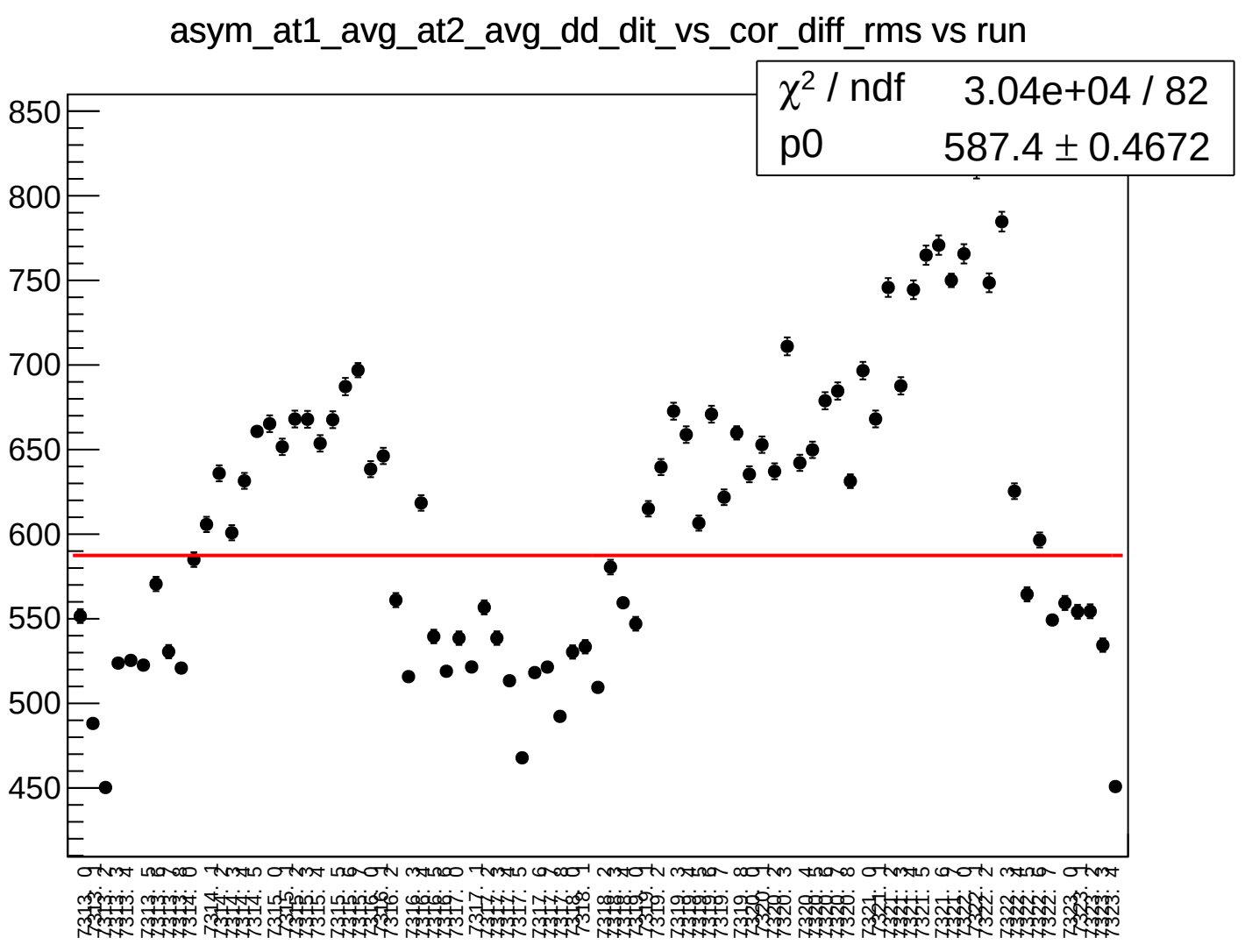

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.544e+04 / 82
p0 6044 ± 4.784
7500
7000
6500
6000
5500
5000
4500

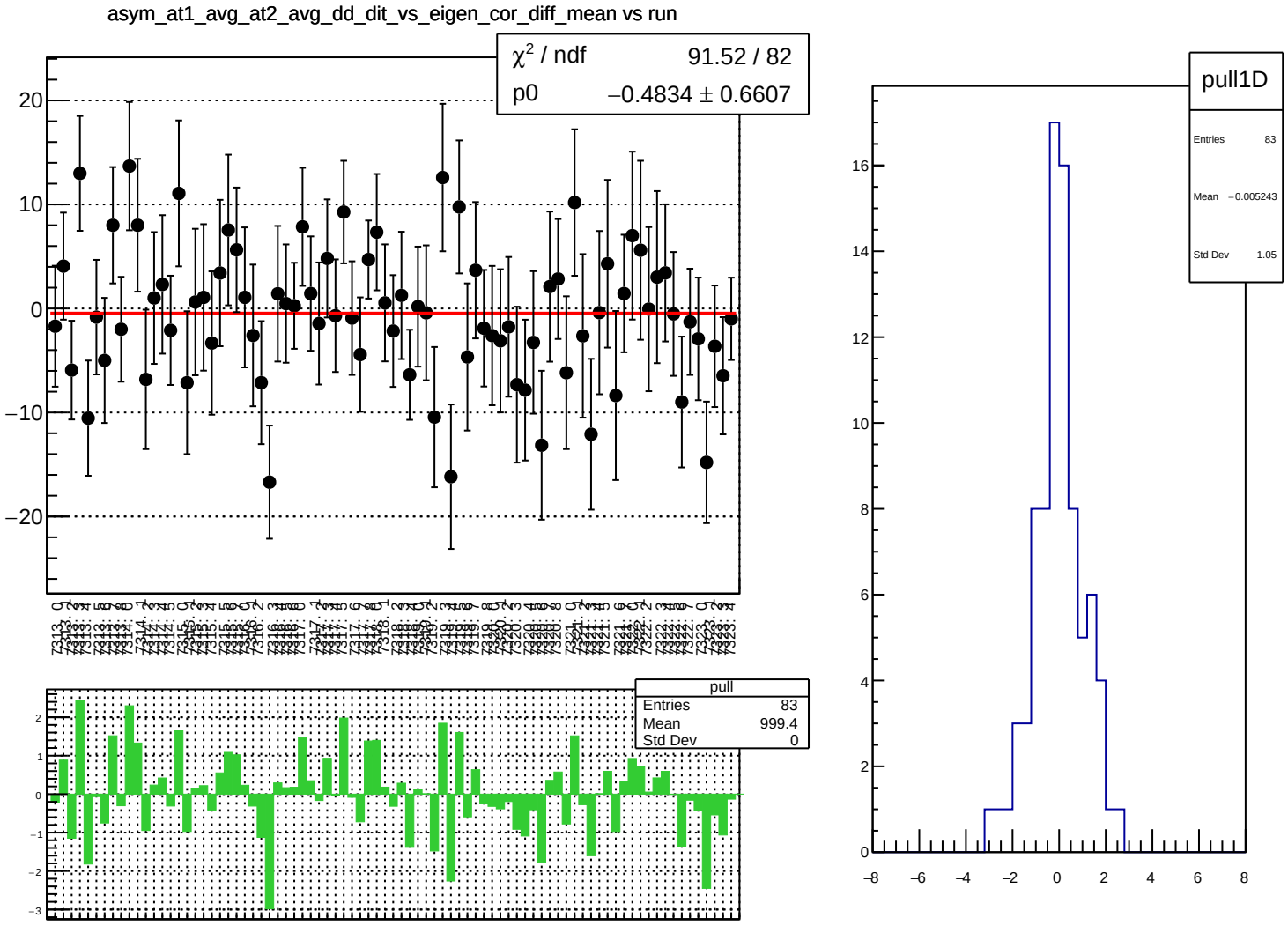

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.24 / 82
p0 5.841e−14 ± 1.981e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 83
Mean 31.68
Std Dev 31
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 83
Mean 0.02899
Std Dev 0.9516
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

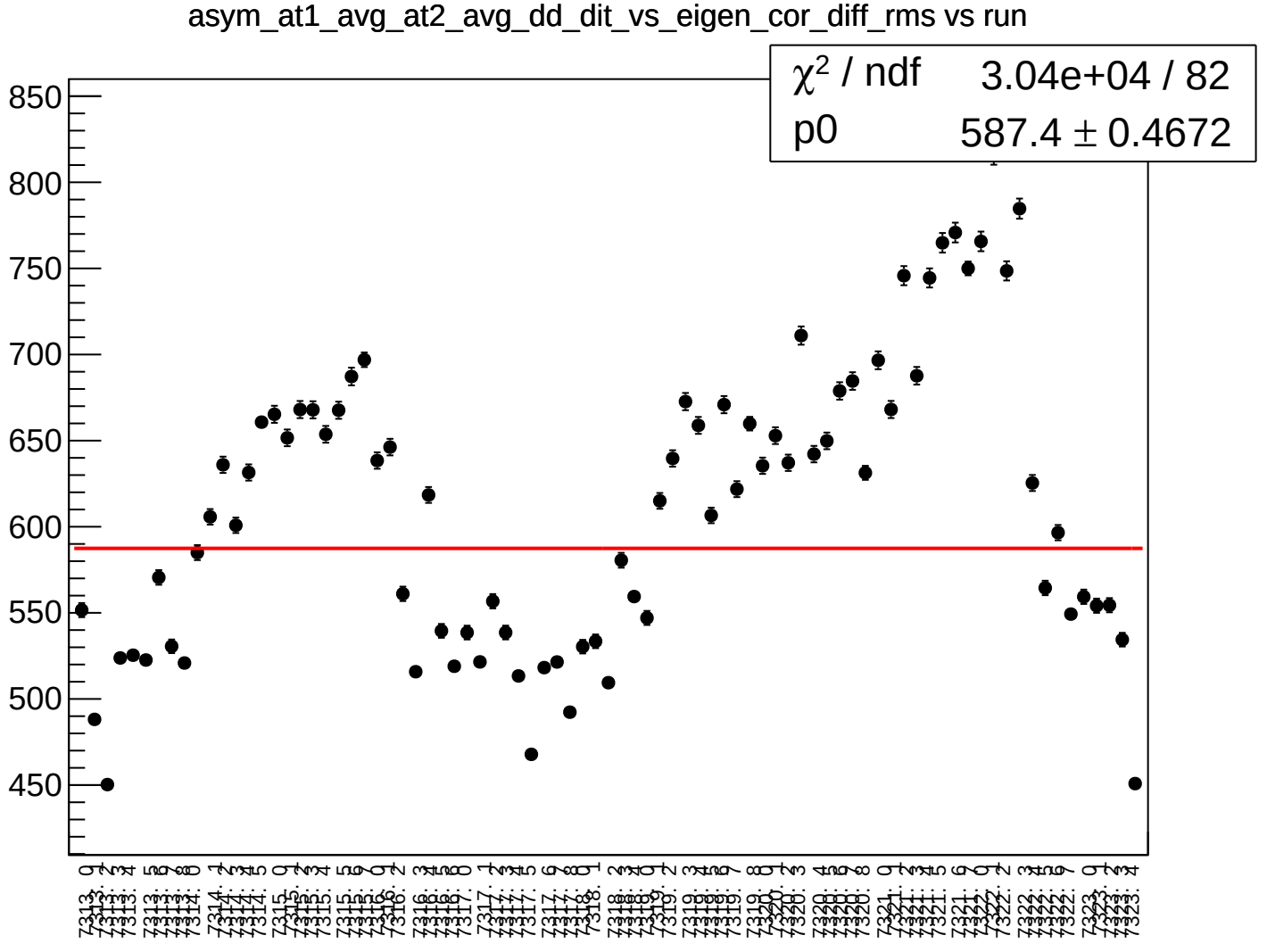

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.322e+06 / 82
p0 7.536e−11 ± 1.401e−13
1
0.8
0.6
0.4
0.2
0

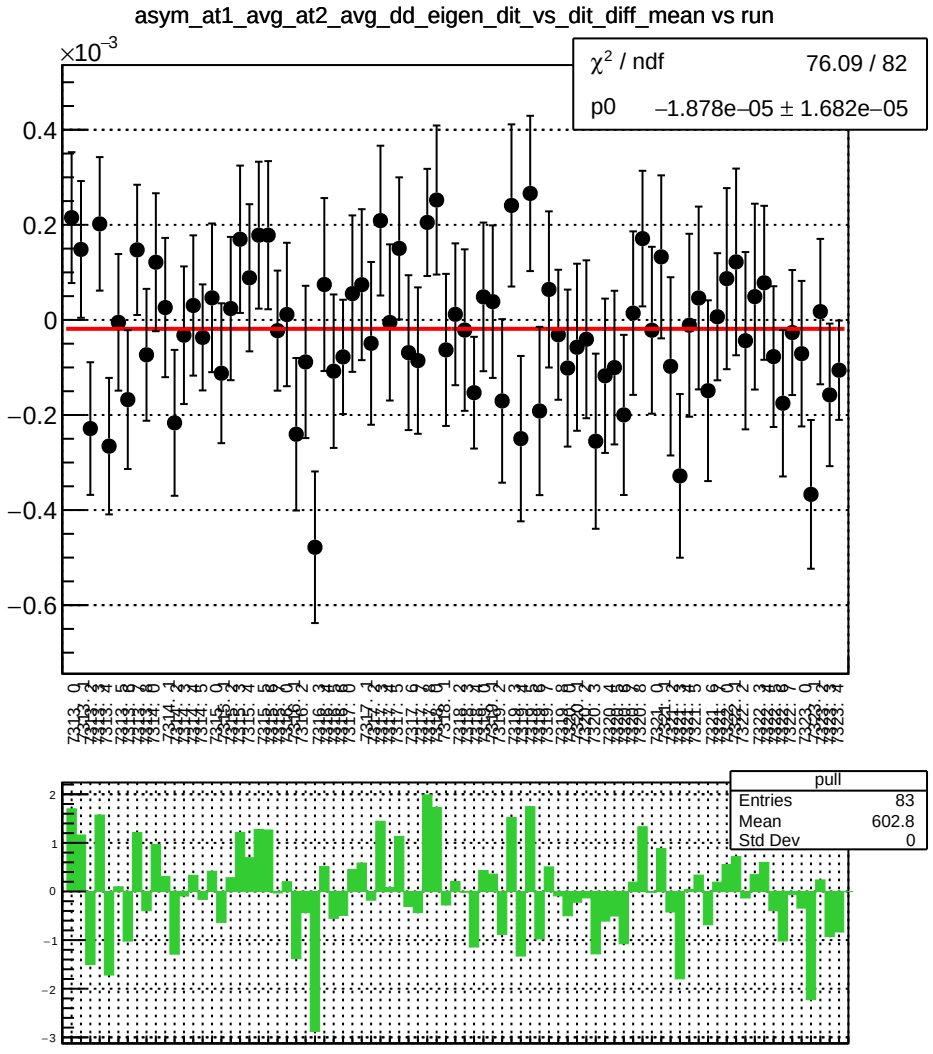

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.4
Std Dev 0

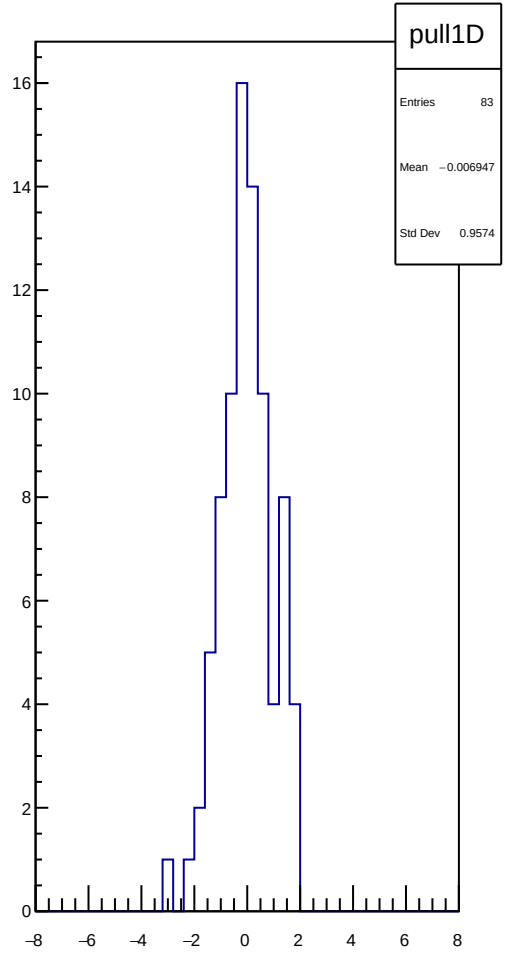

pull1D
Entries 83
Mean −0.005243
Std Dev 1.05

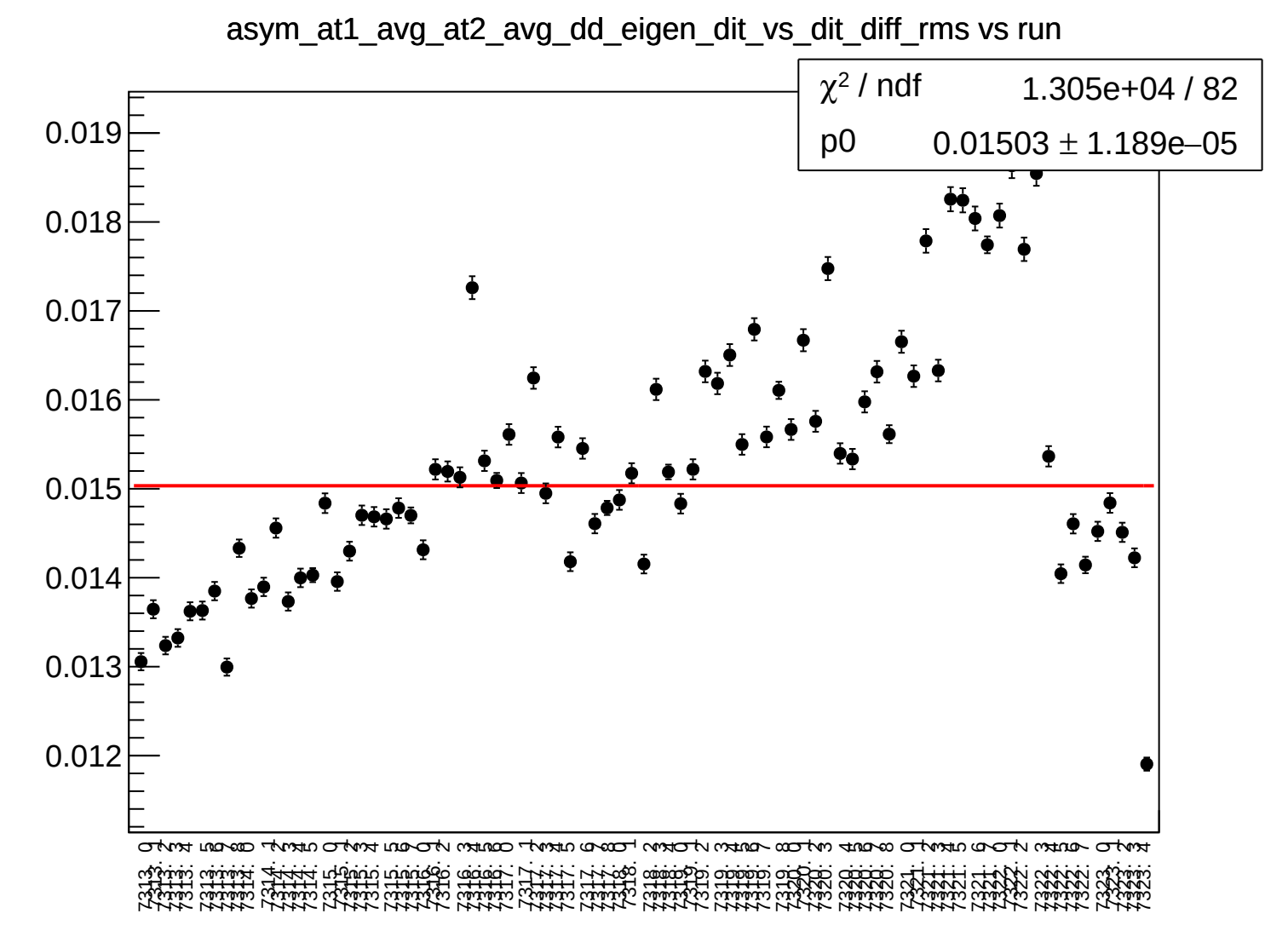

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

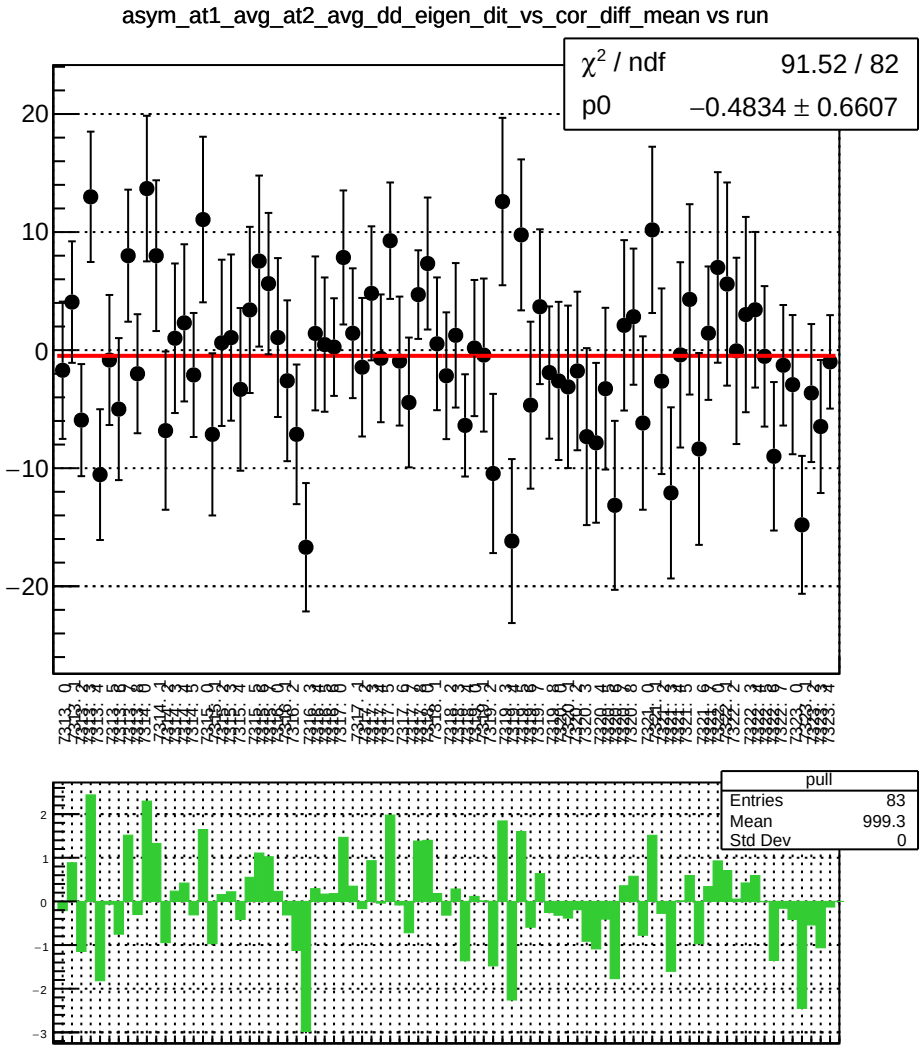

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.4
Std Dev 0
pull1D
Entries 83
Mean −0.005243
Std Dev 1.05

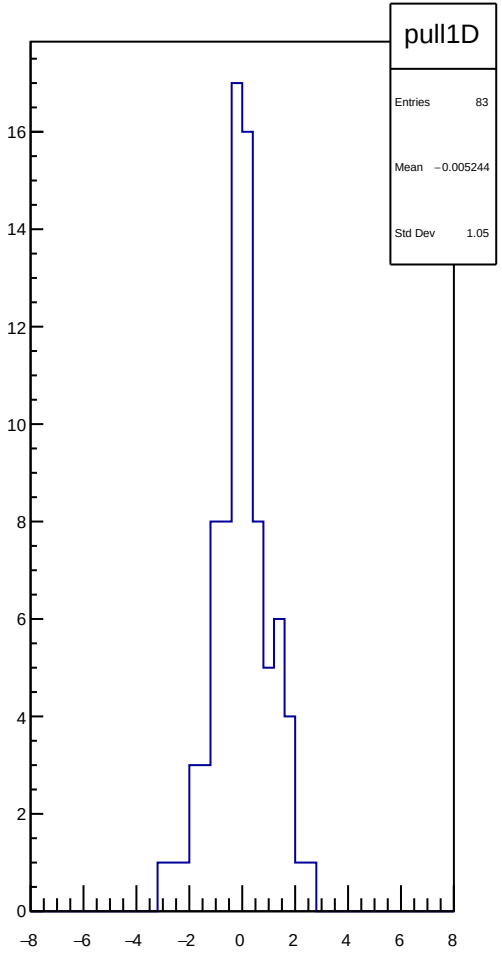

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

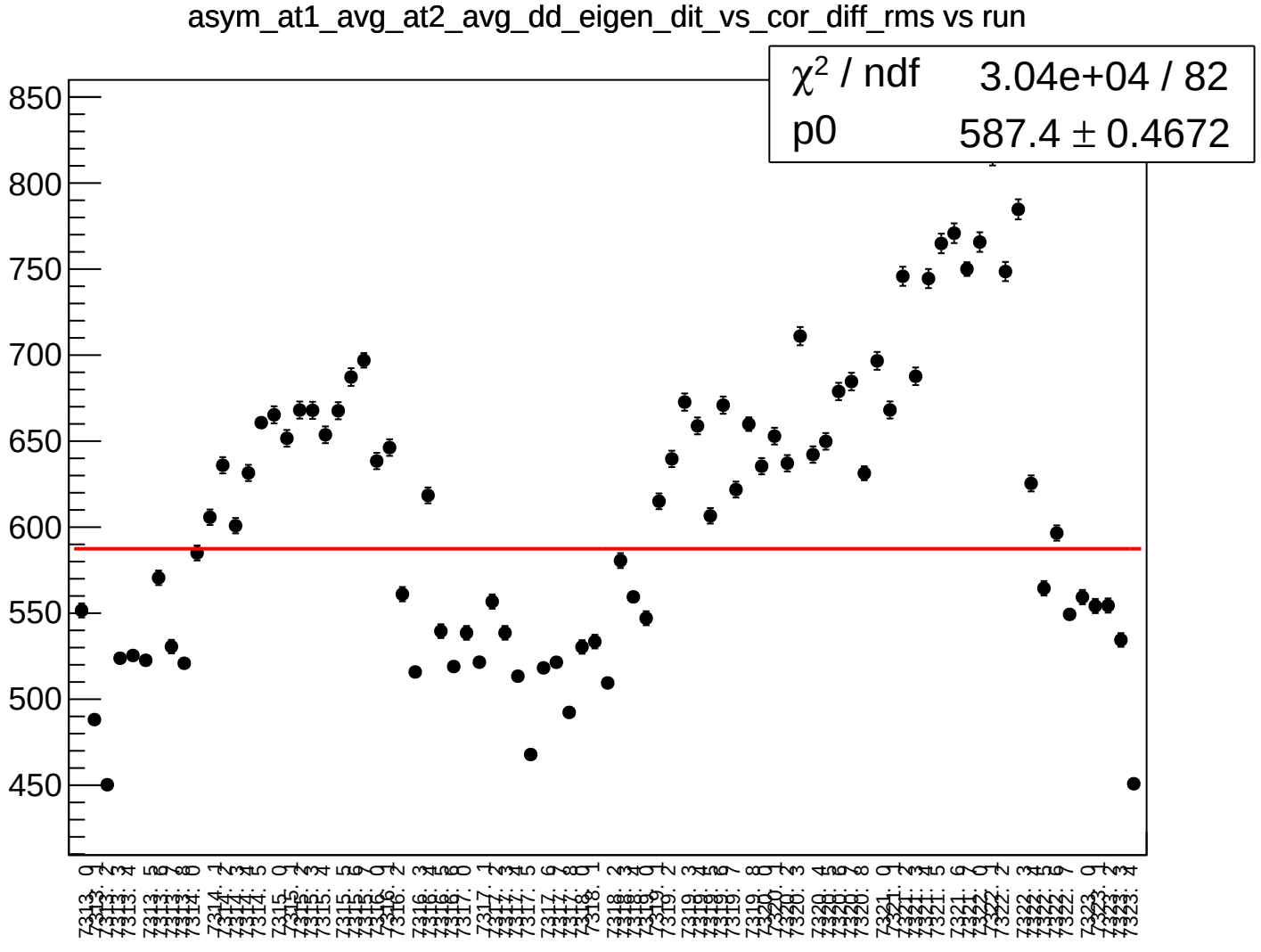

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.09 / 82
p0 −1.878e−05 ± 1.682e−05
pull
Entries 83
Mean 602.8
Std Dev 0

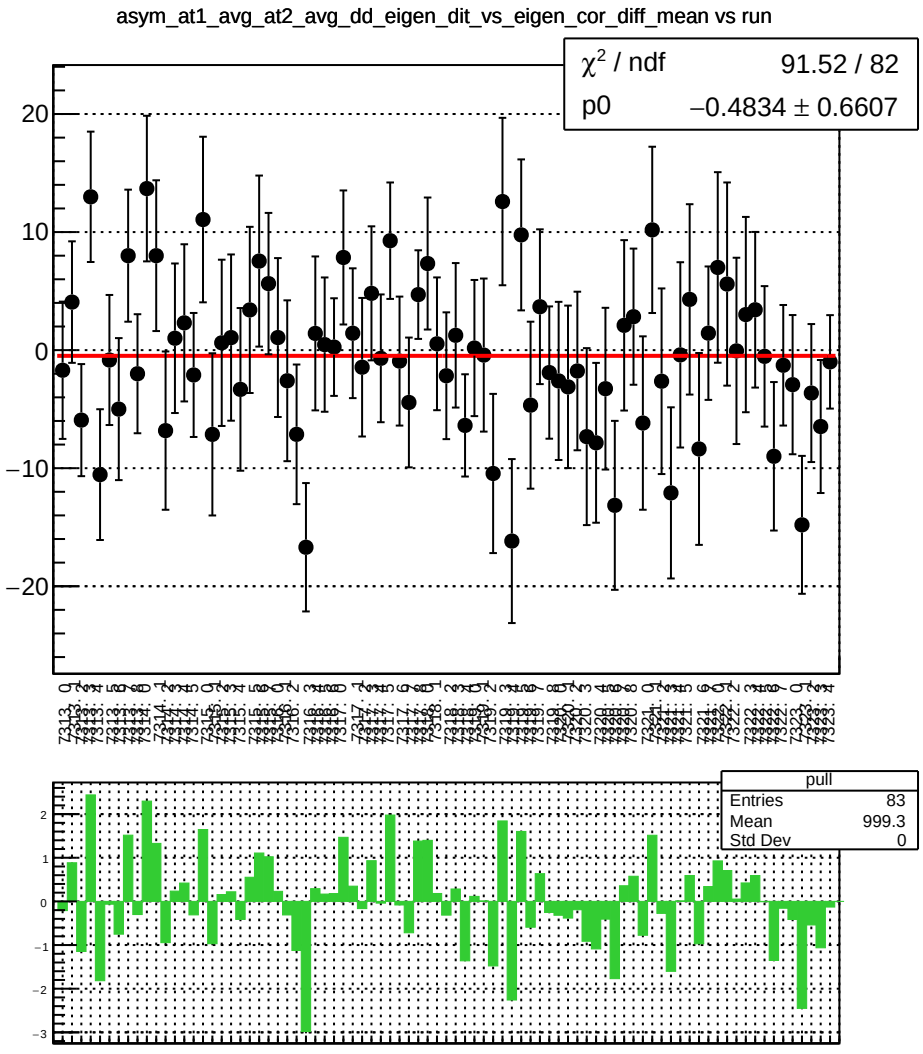

pull1D
Entries 83
Mean −0.006947
Std Dev 0.9574

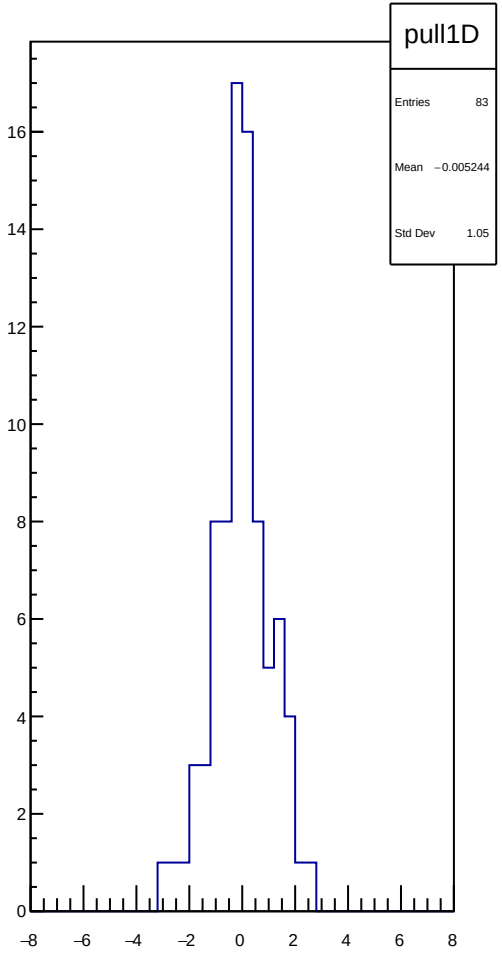

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.305e+04 / 82
p0 0.01503 ± 1.189e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

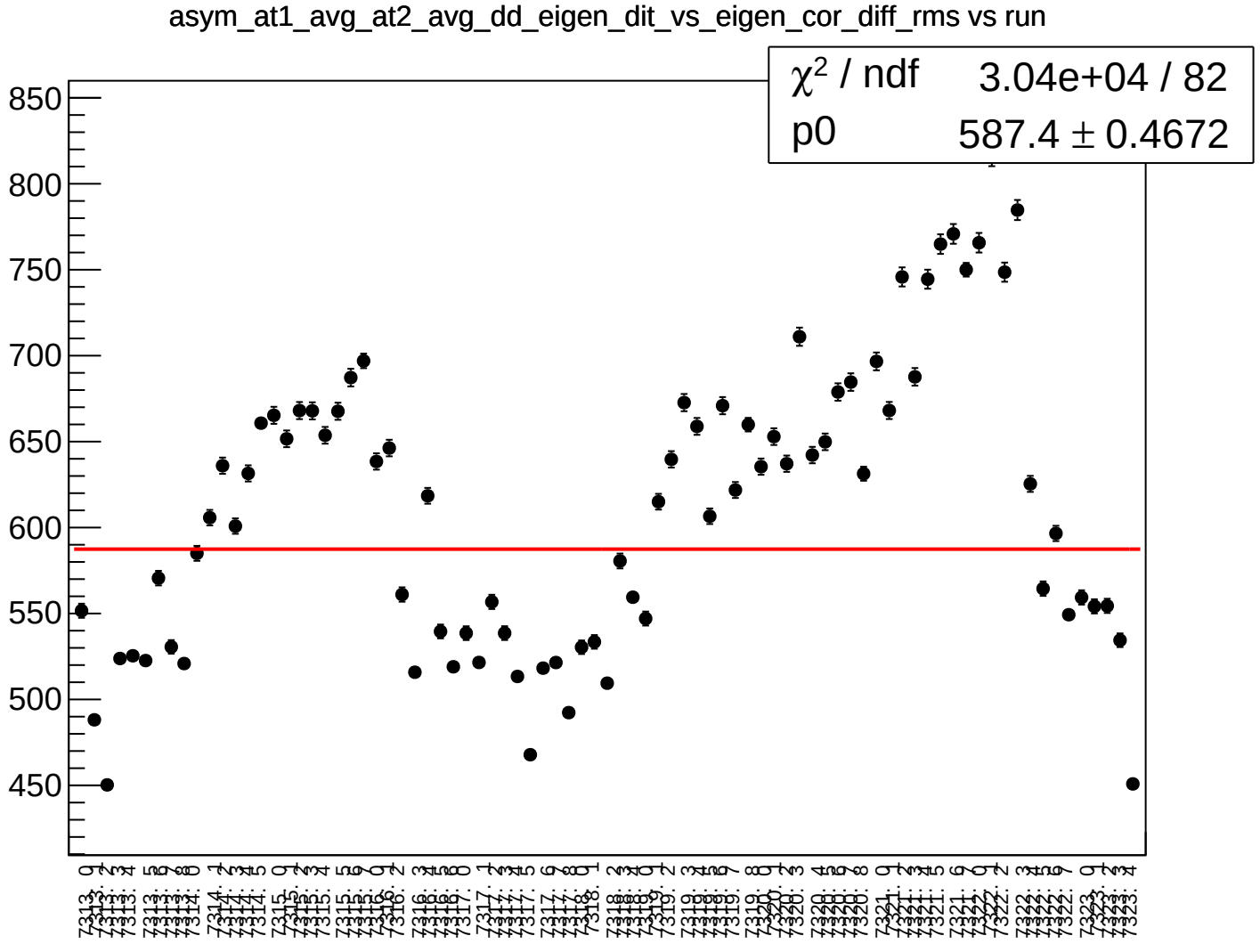

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.3
Std Dev 0

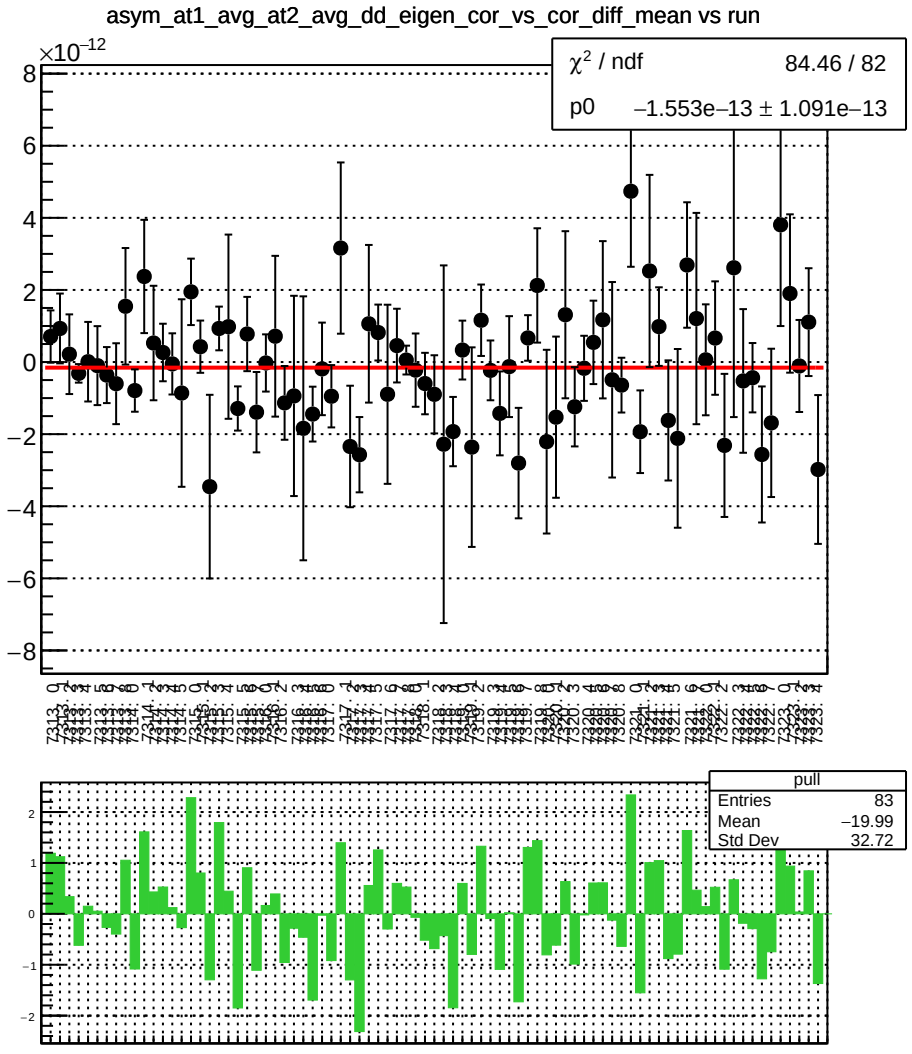

pull1D
Entries 83
Mean −0.005244
Std Dev 1.05

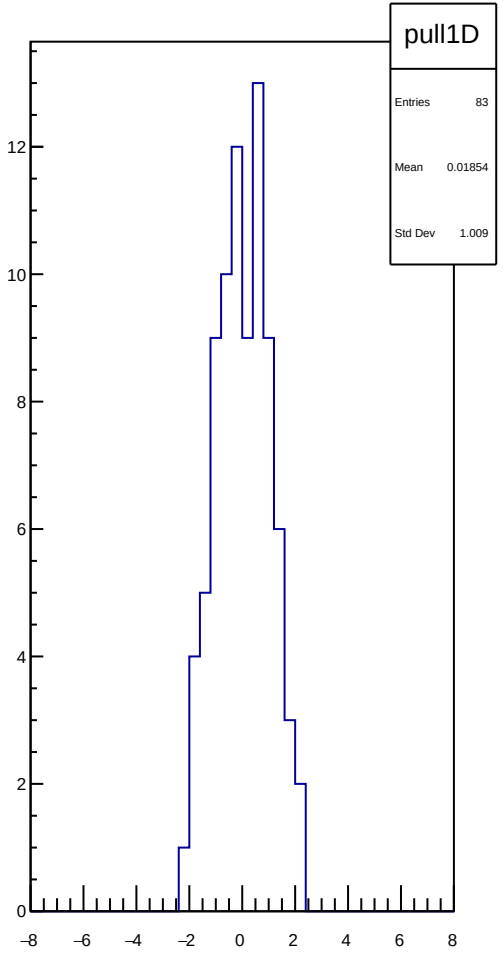

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

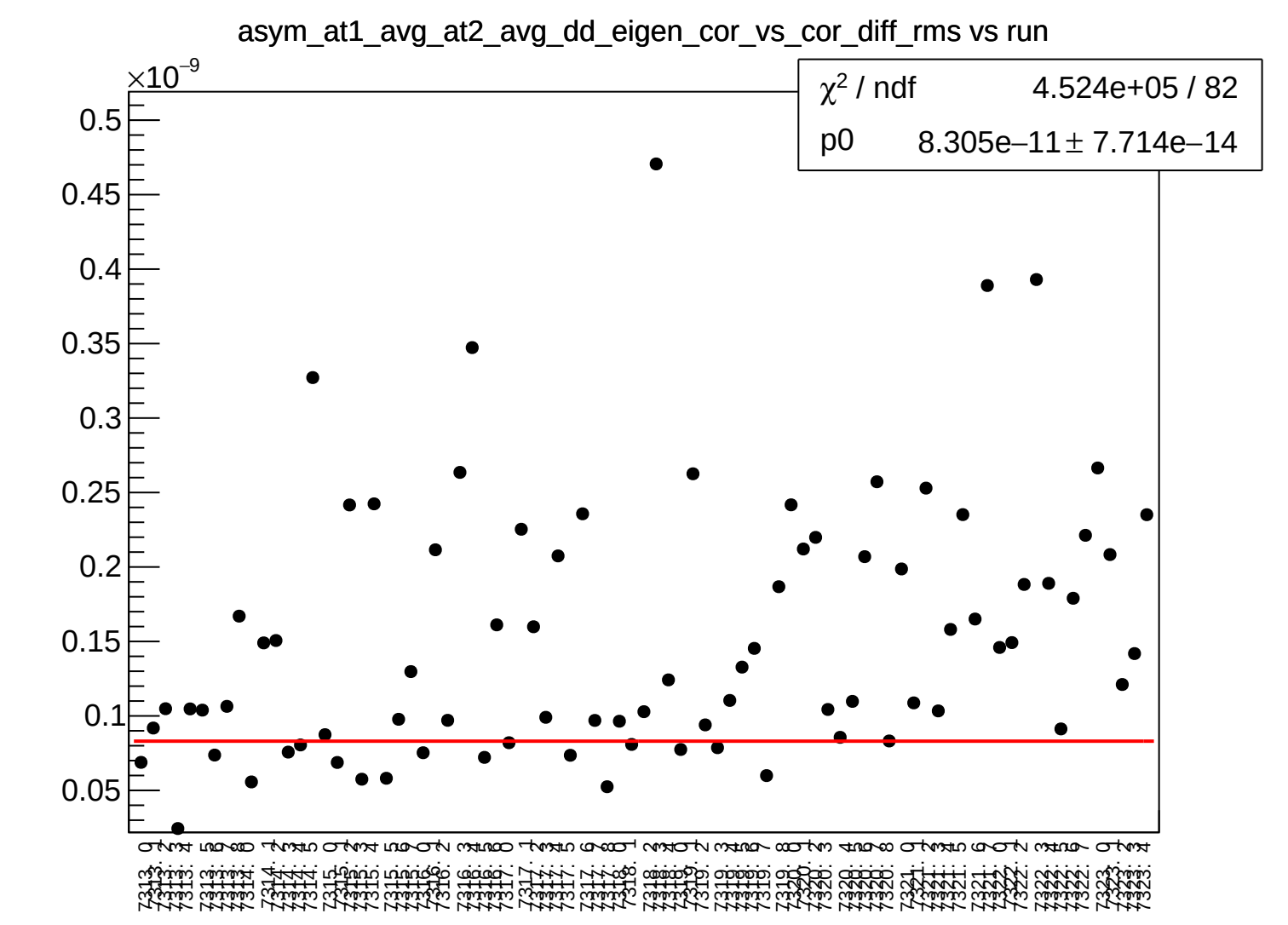

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.3
Std Dev 0

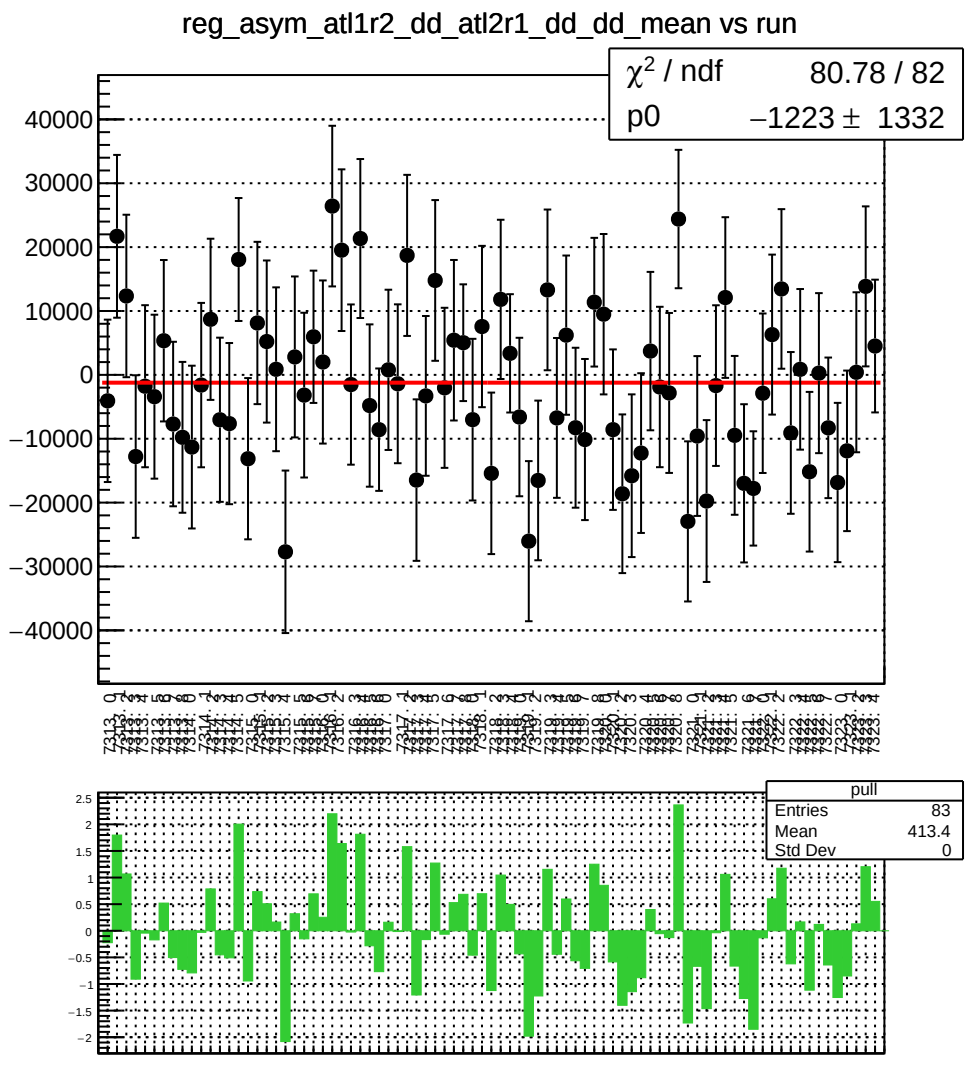

pull1D
Entries 83
Mean −0.005244
Std Dev 1.05

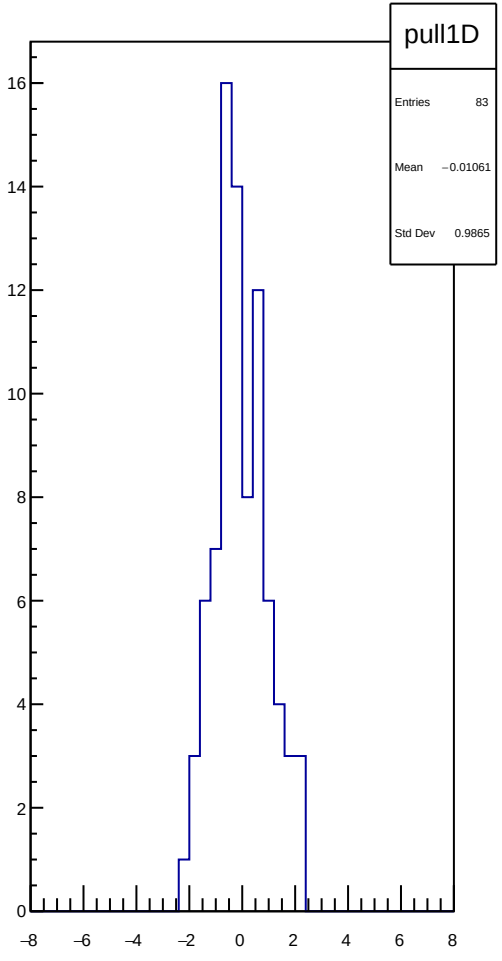

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

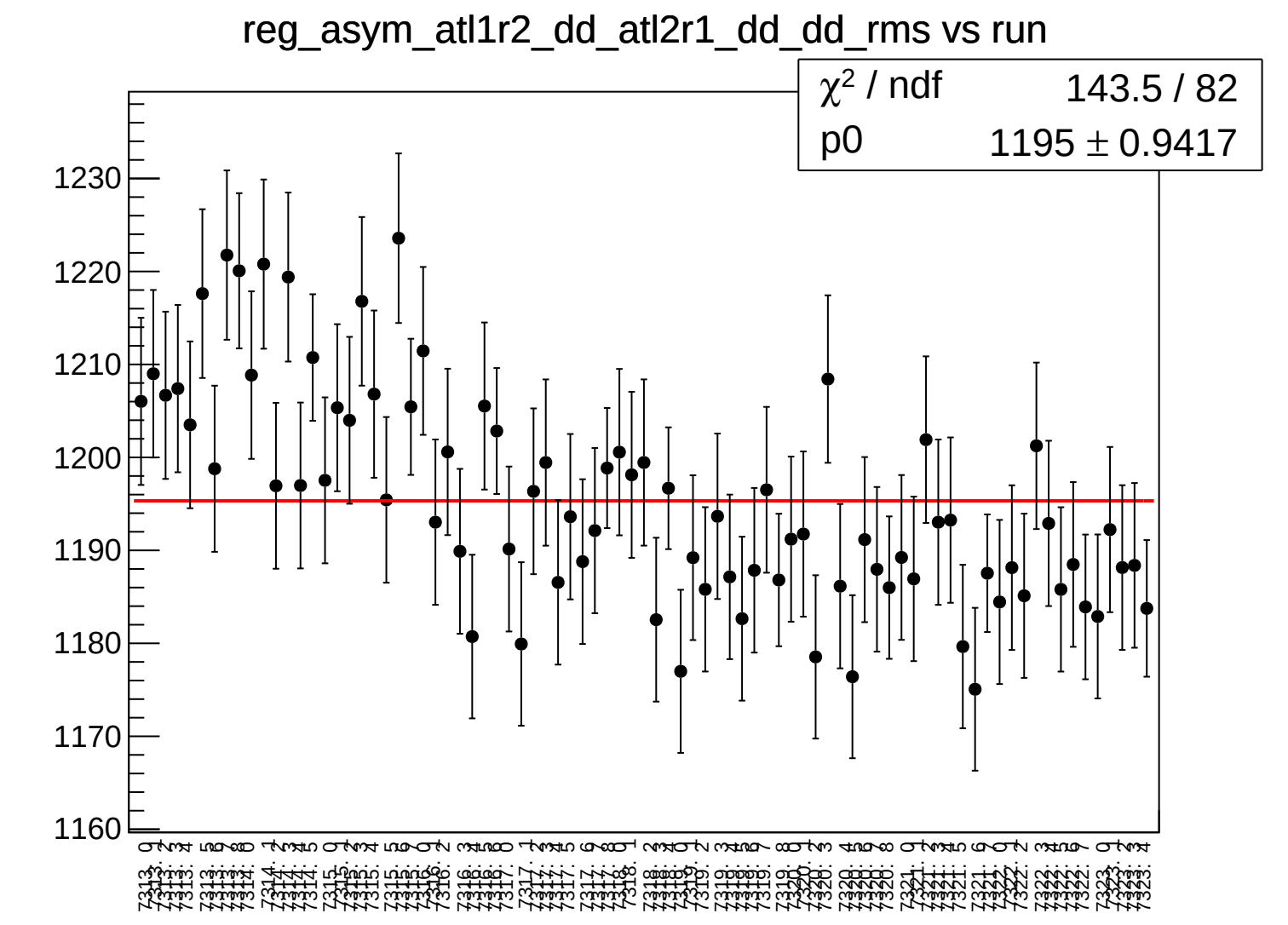

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.46 / 82
p0 −1.553e−13 ± 1.091e−13
pull
Entries 83
Mean −19.99
Std Dev 32.72

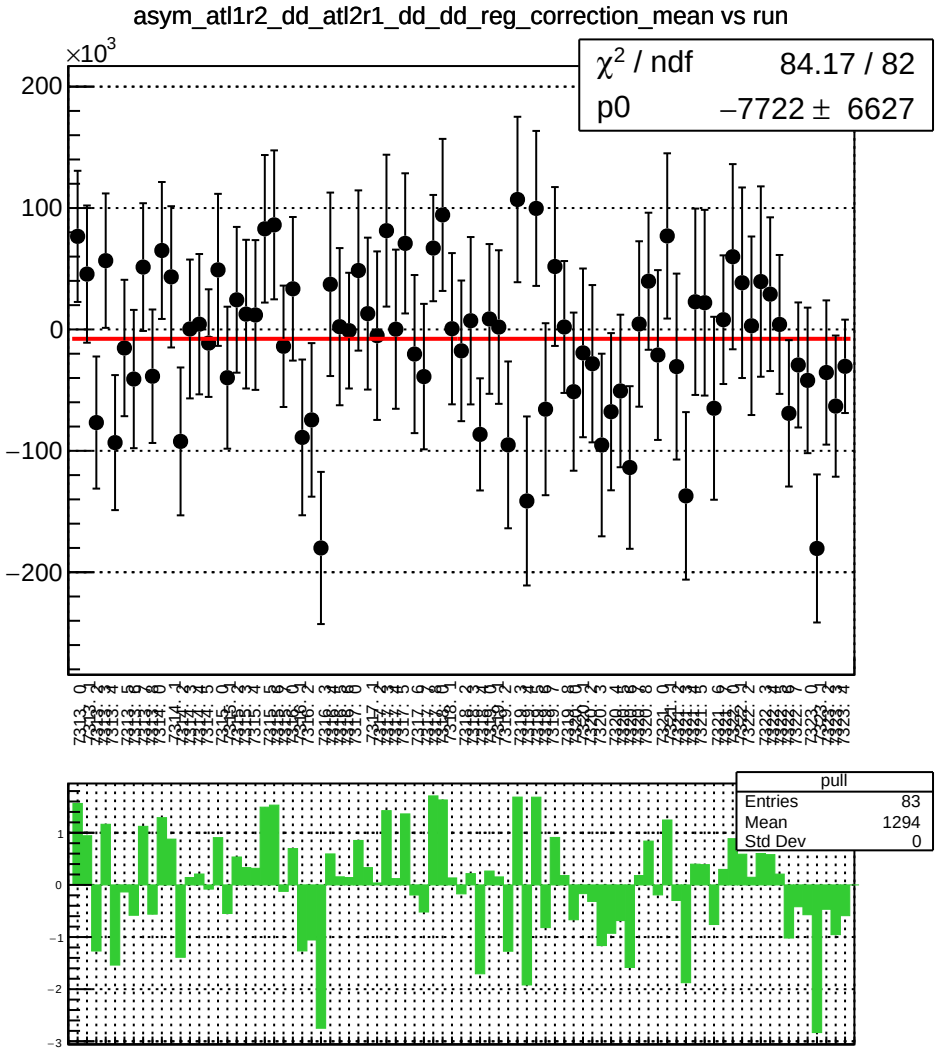

pull1D
Entries 83
Mean 0.01854
Std Dev 1.009

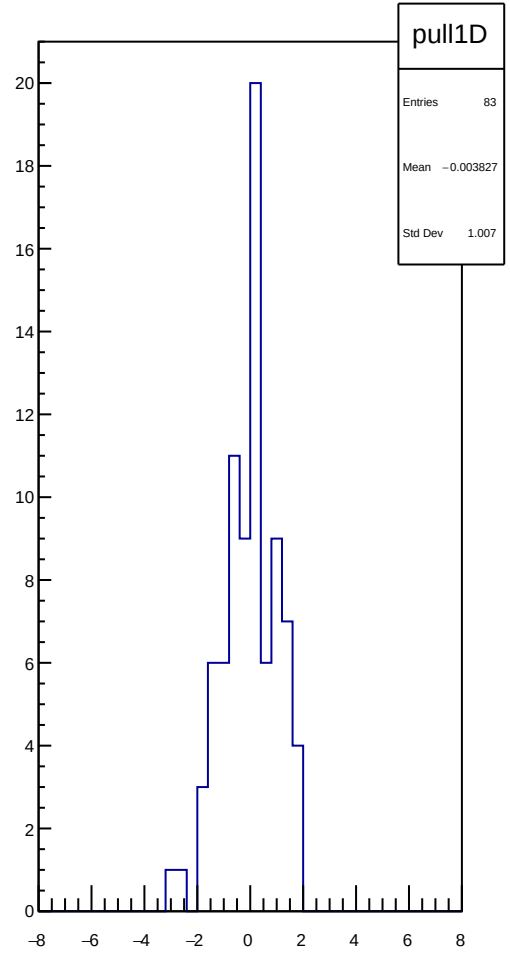

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.524e+05 / 82
p0 8.305e−11 ± 7.714e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

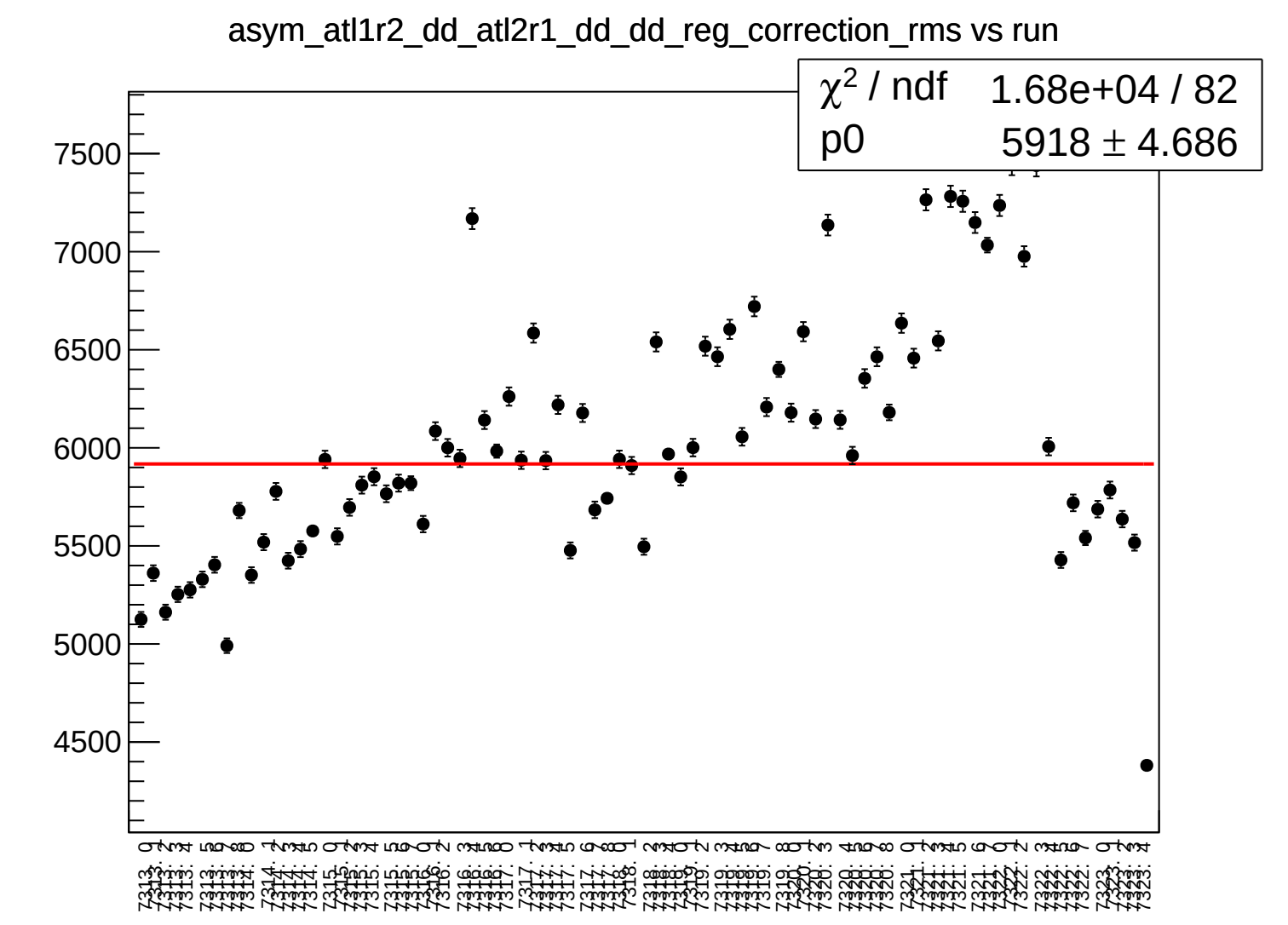

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 80.78 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.4
Std Dev 0

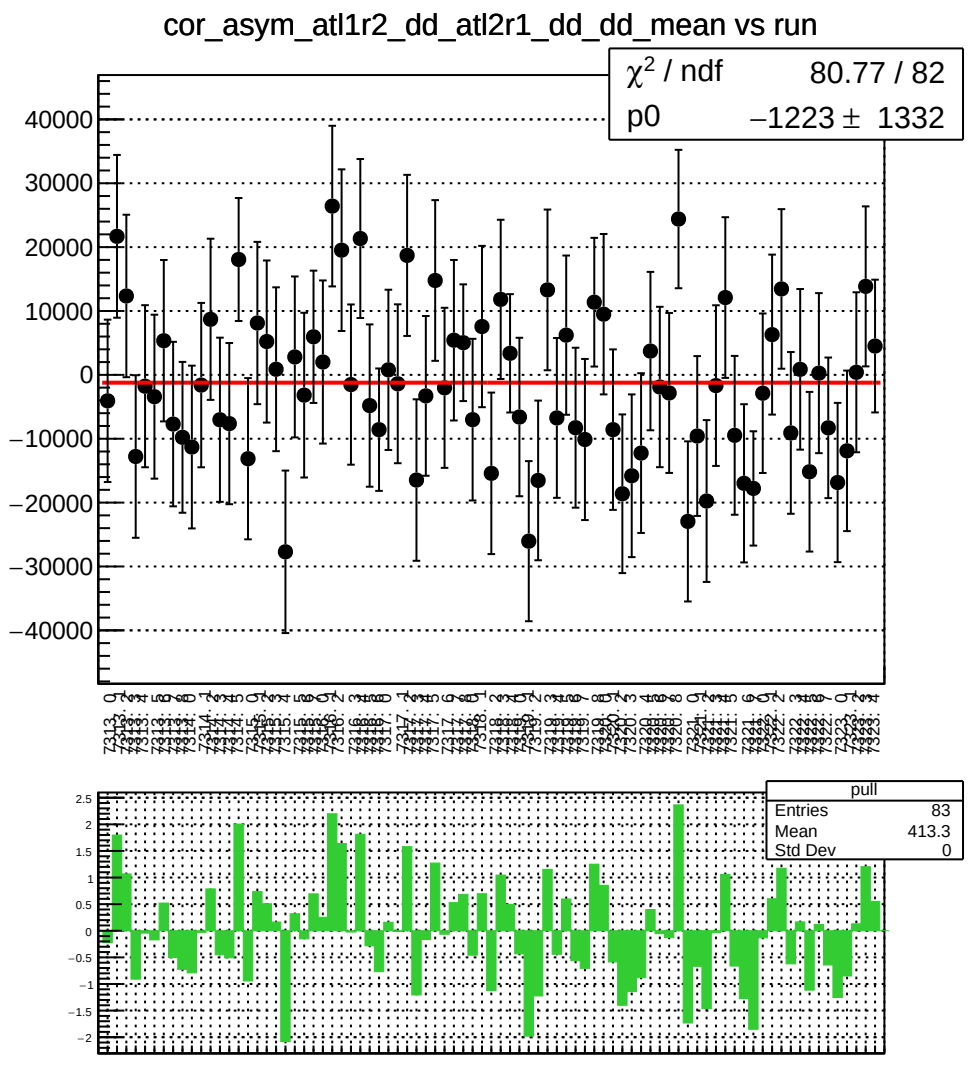

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9865

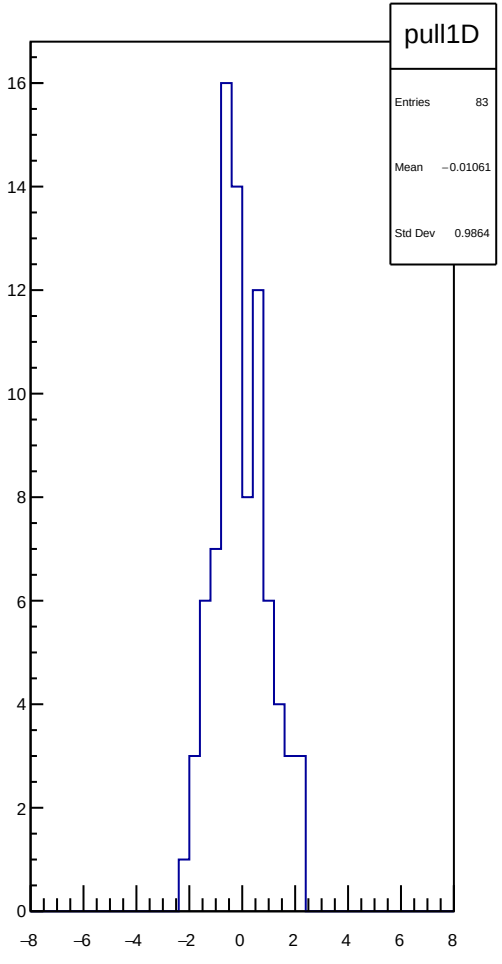

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

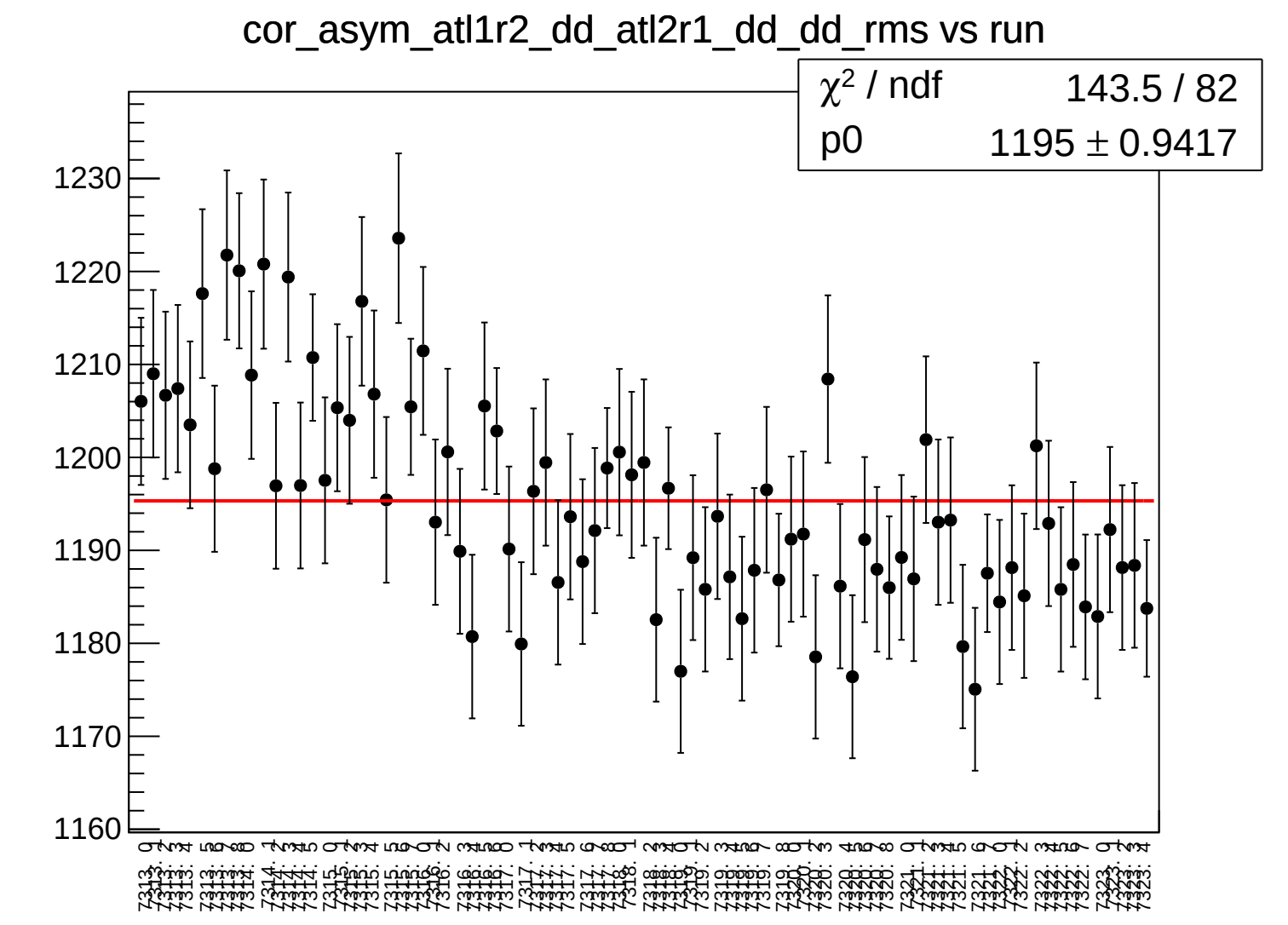

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1294
Std Dev 0

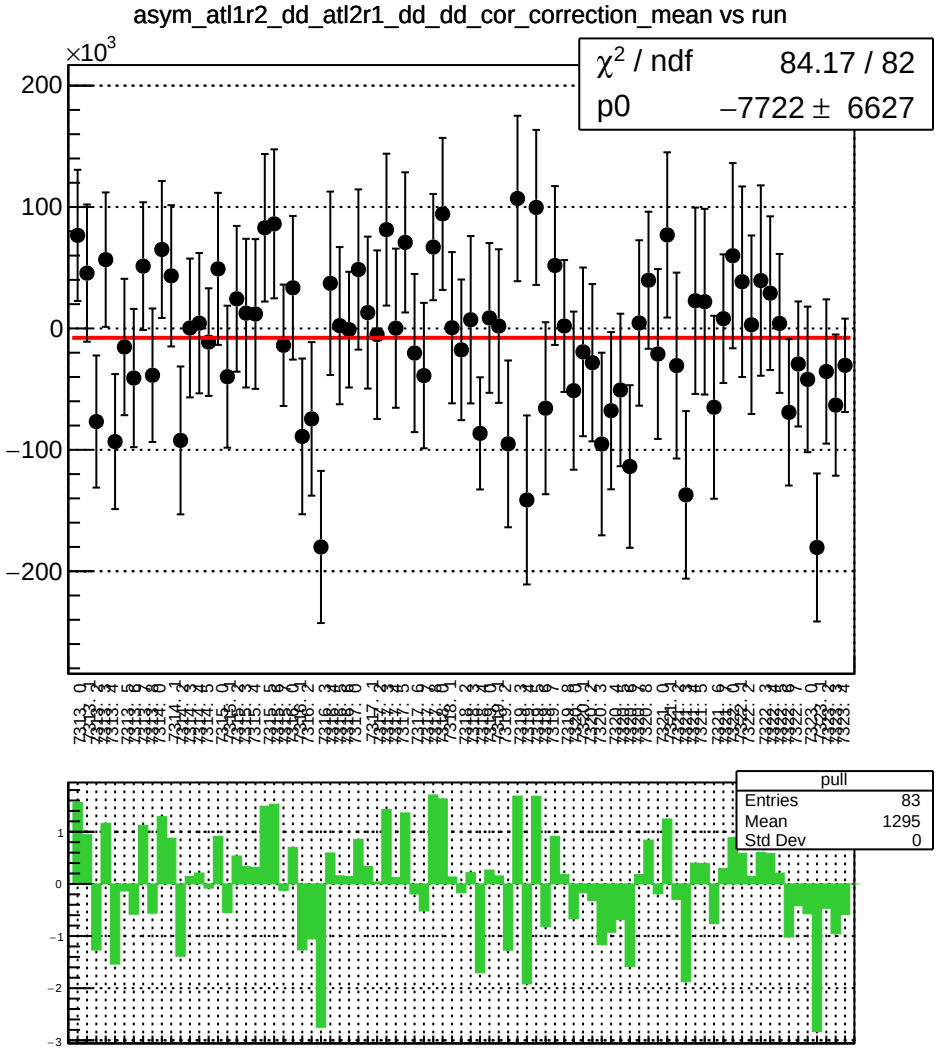

pull1D
Entries 83
Mean −0.003827
Std Dev 1.007

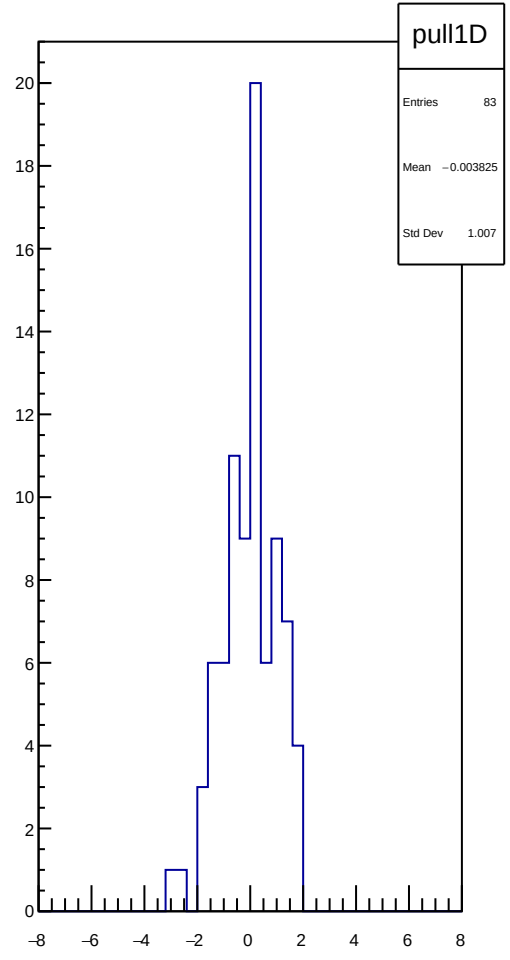

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

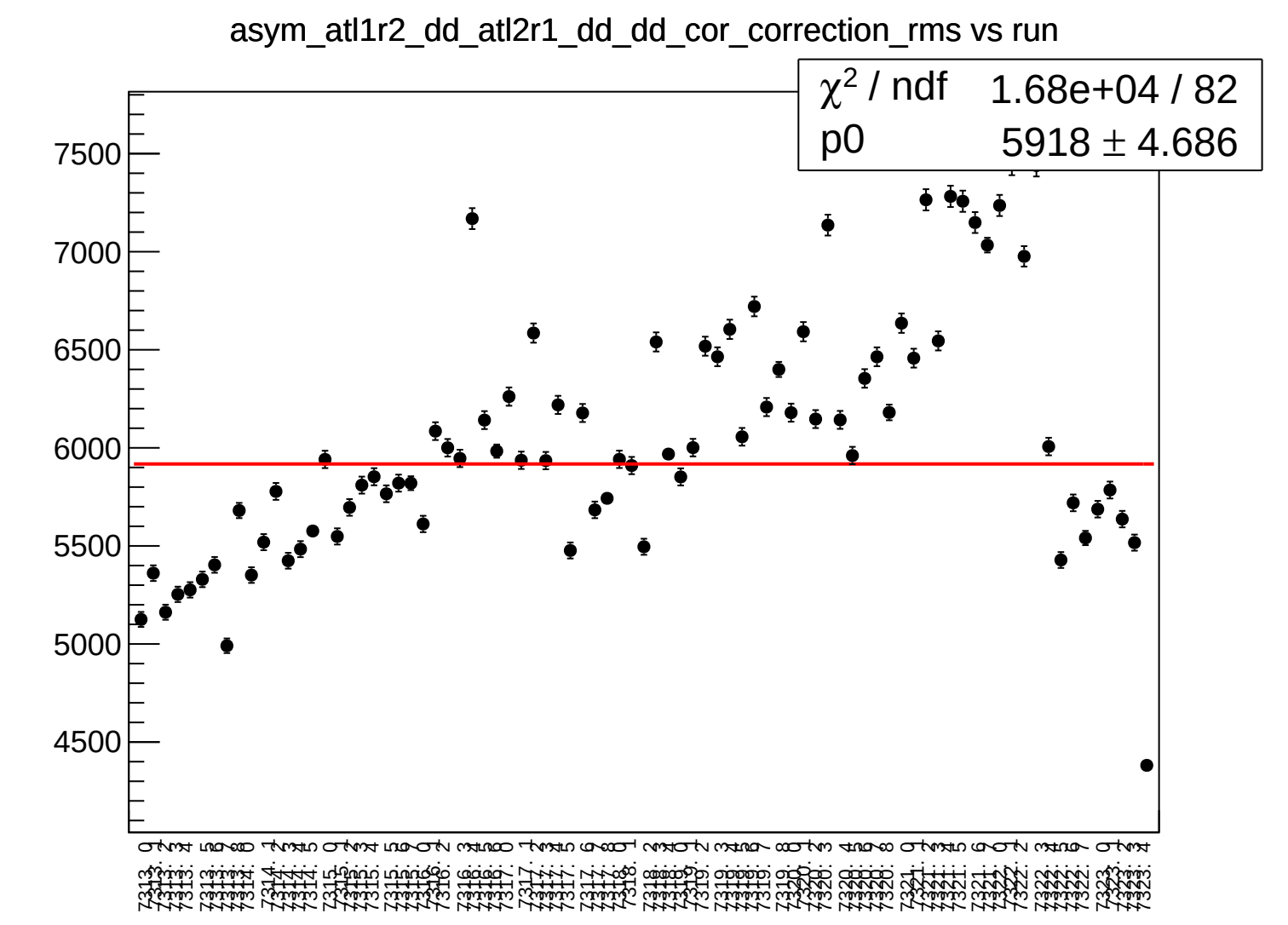

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 80.77 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.3
Std Dev 0

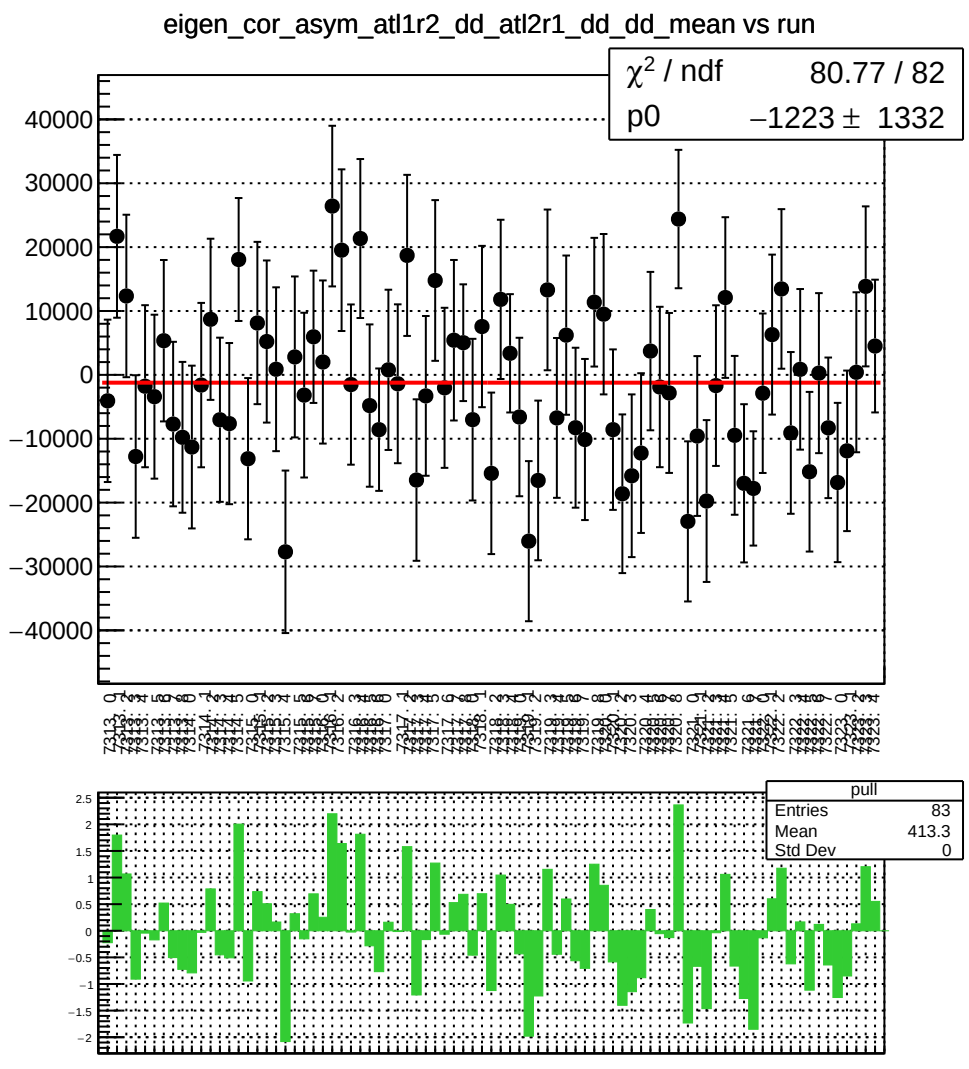

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9864

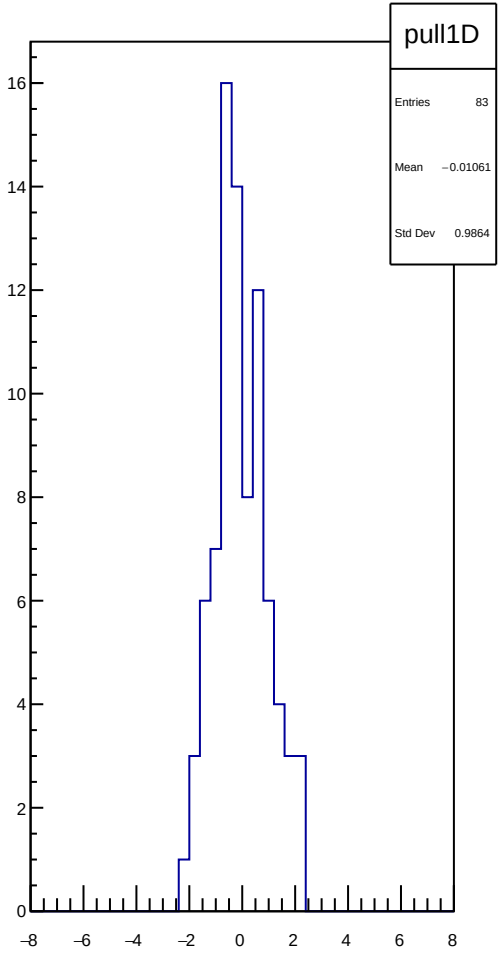

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

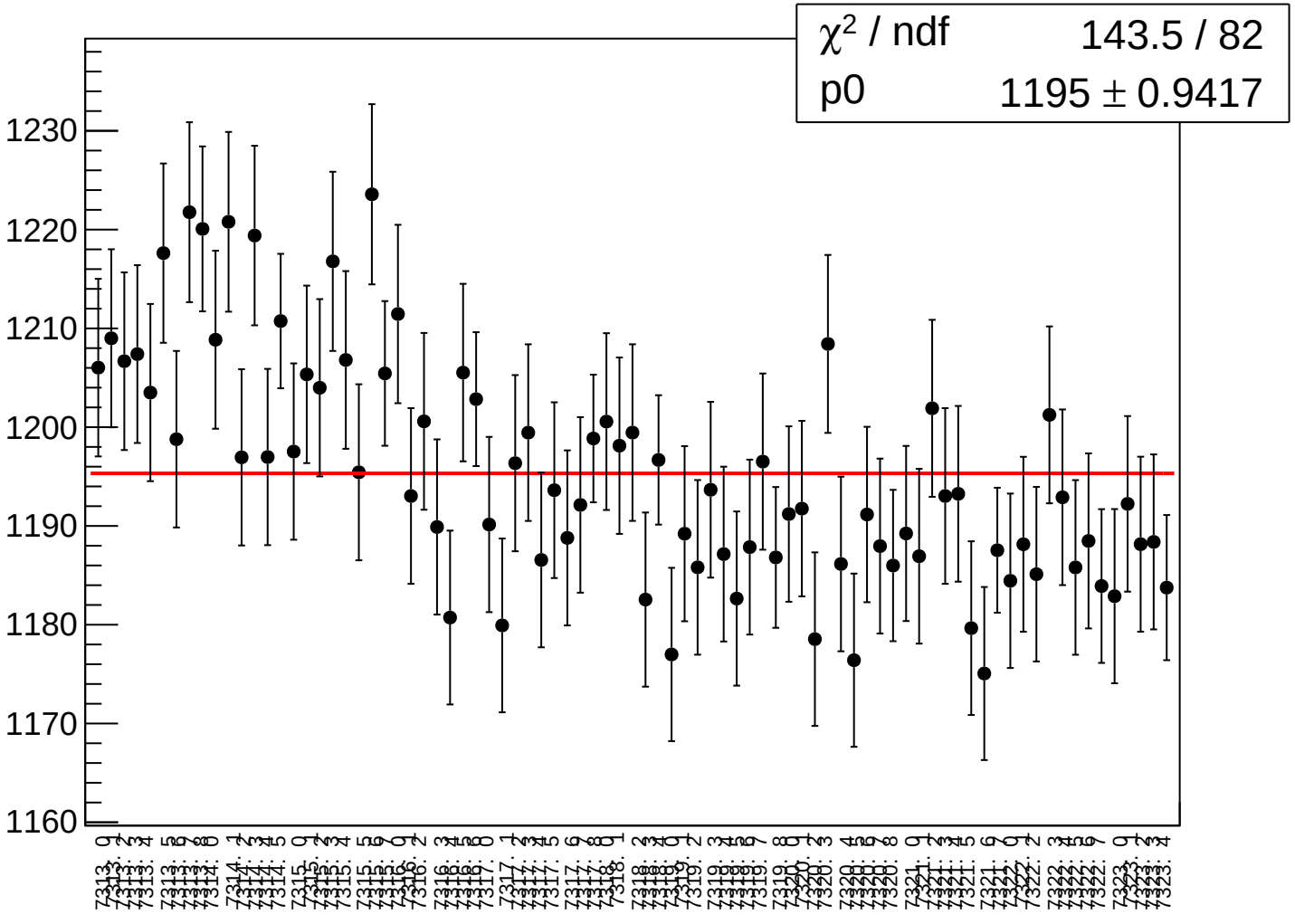

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1295
Std Dev 0

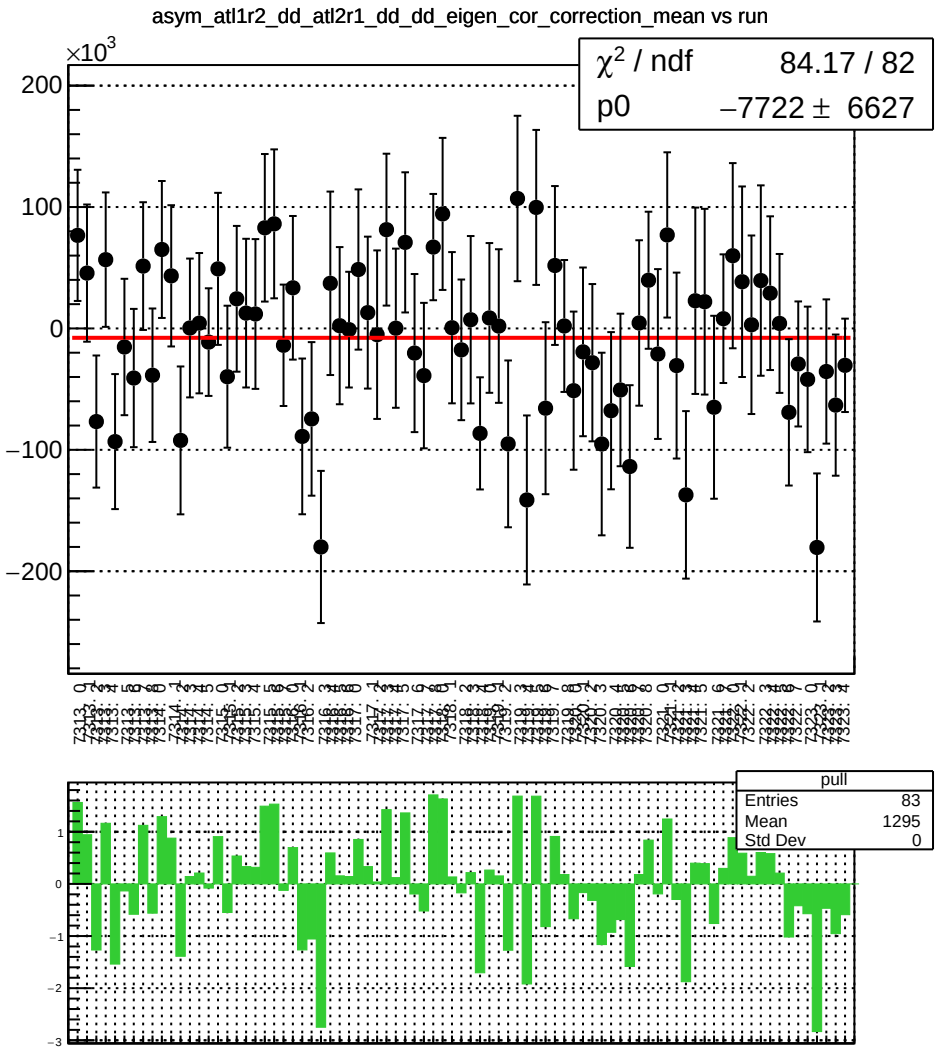

pull1D
Entries 83
Mean −0.003825
Std Dev 1.007

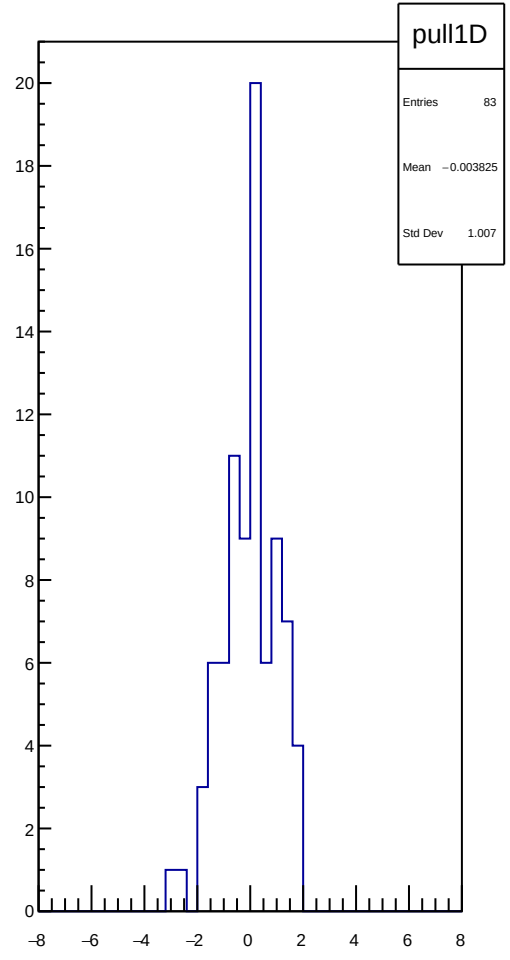

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

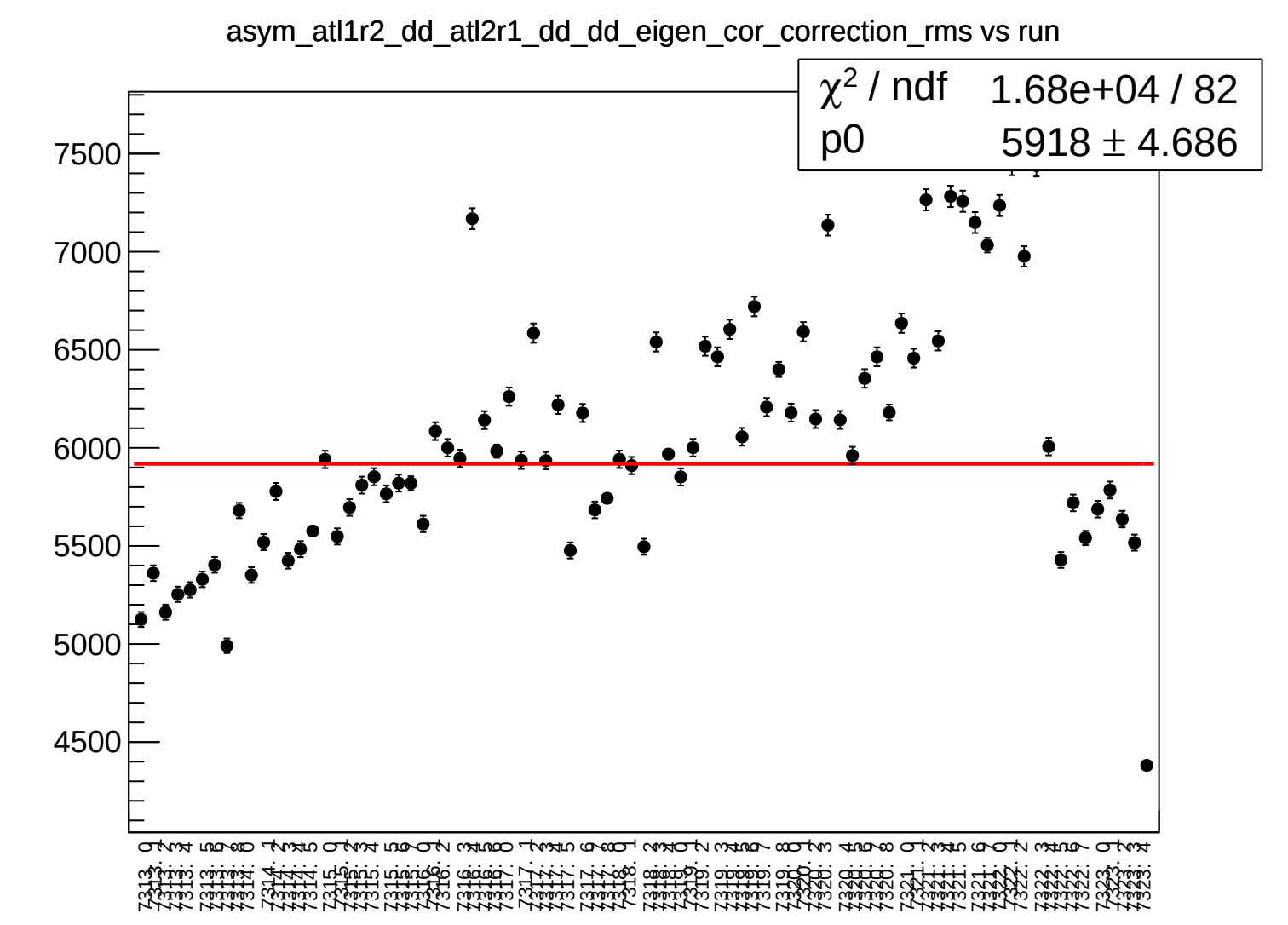

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 80.77 / 82
p0 −1223 ± 1332
pull
Entries 83
Mean 413.3
Std Dev 0

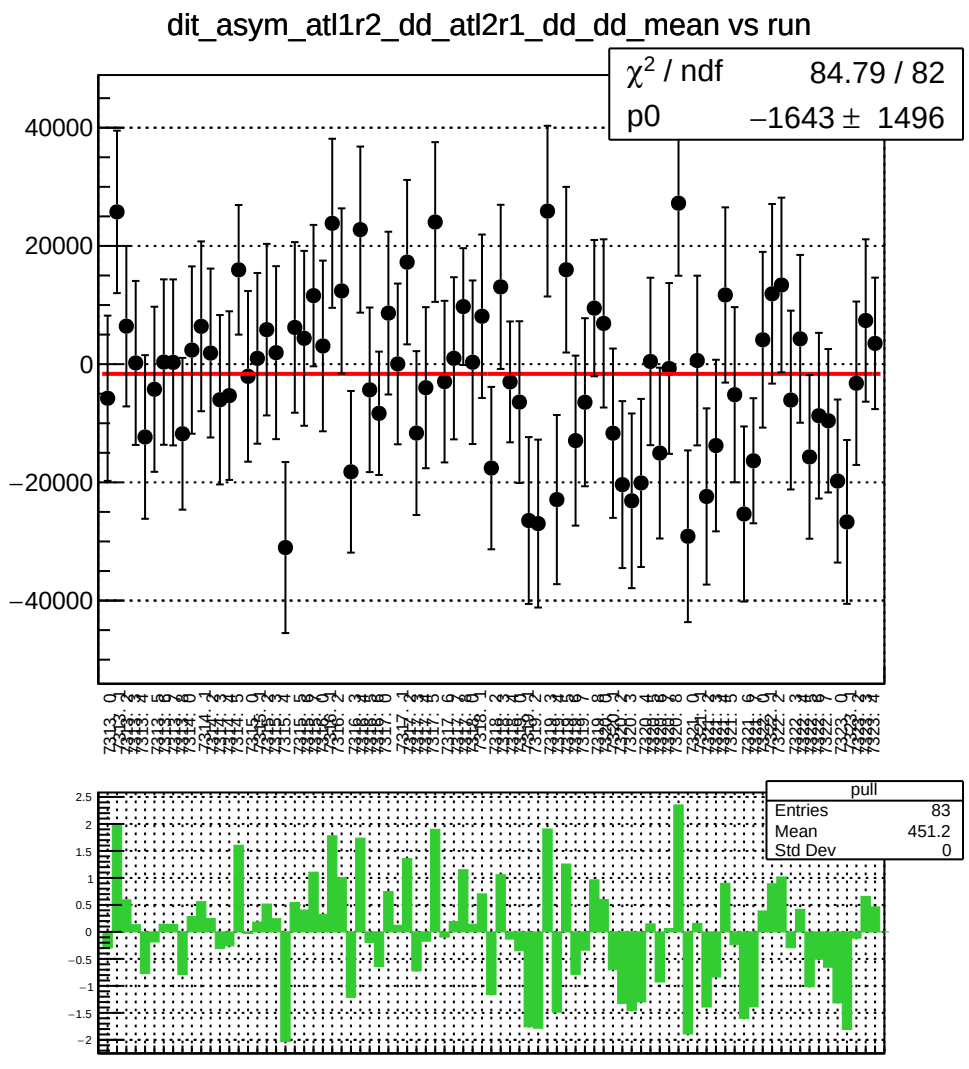

pull1D
Entries 83
Mean −0.01061
Std Dev 0.9864

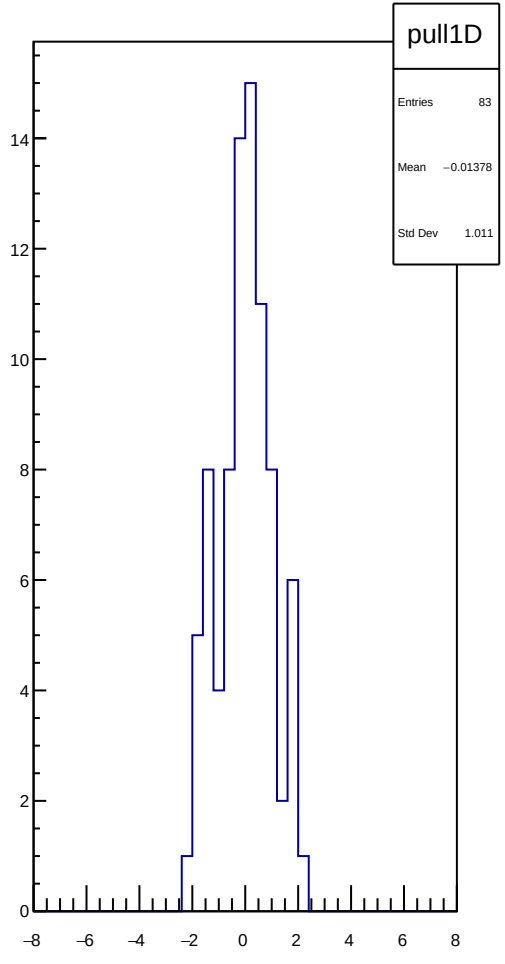

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 143.5 / 82
p0 1195 ± 0.9417
1230
1220
1210
1200
1190
1180
1170
1160

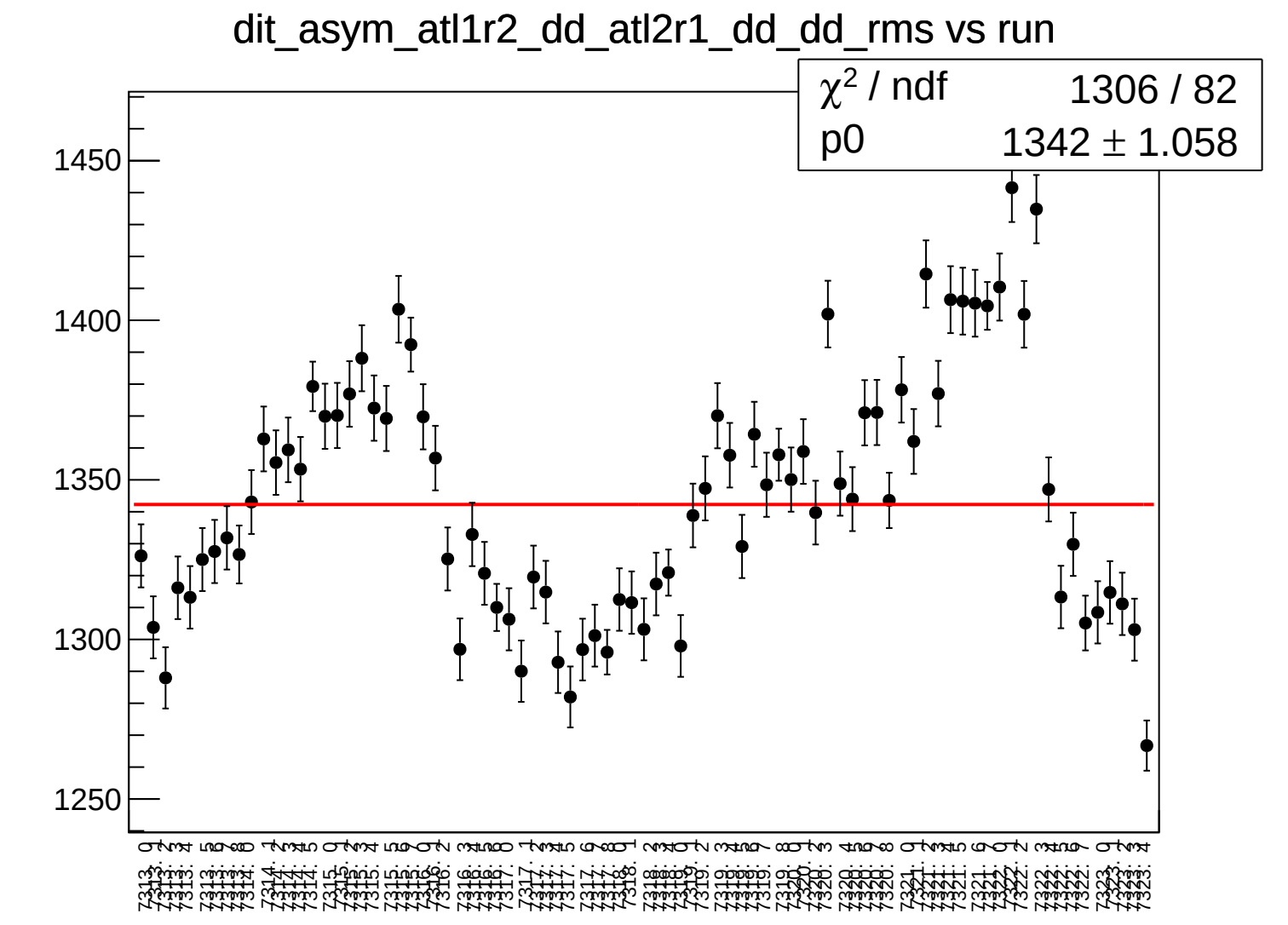

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.17 / 82
p0 −7722 ± 6627
pull
Entries 83
Mean 1295
Std Dev 0

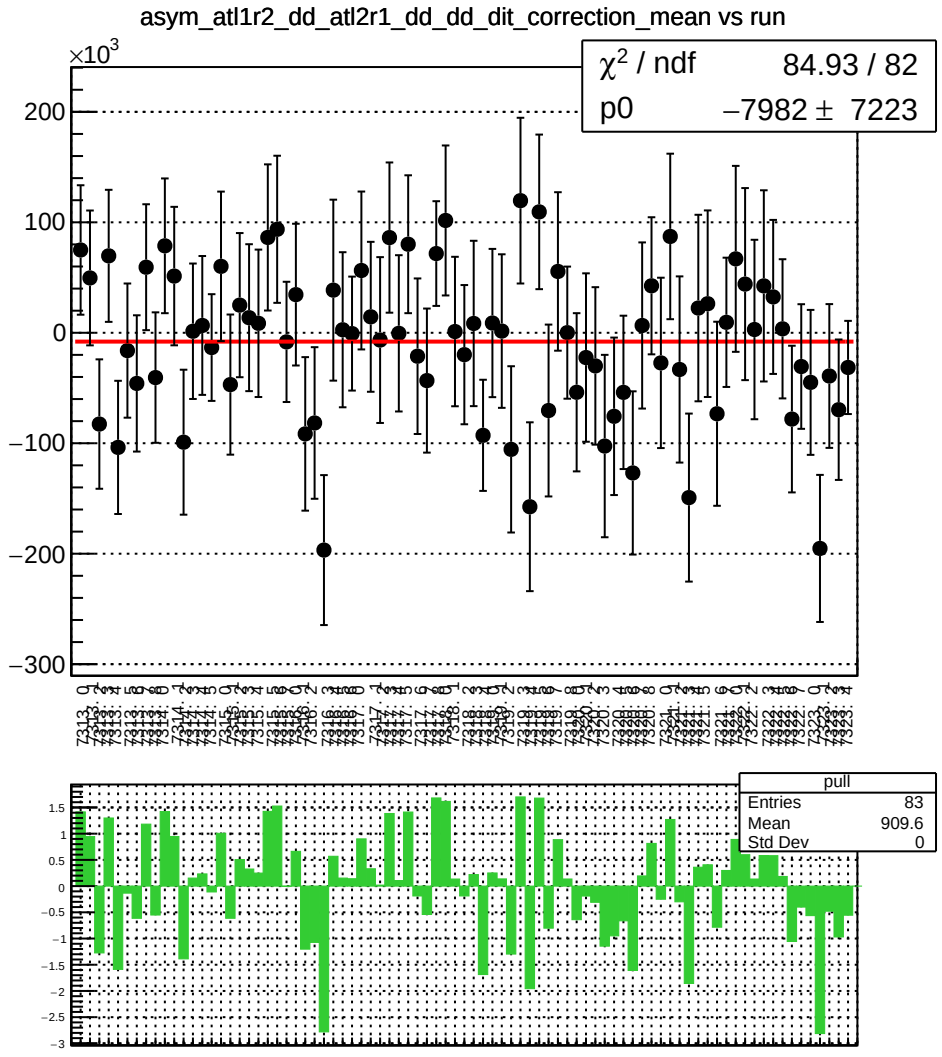

pull1D
Entries 83
Mean −0.003825
Std Dev 1.007

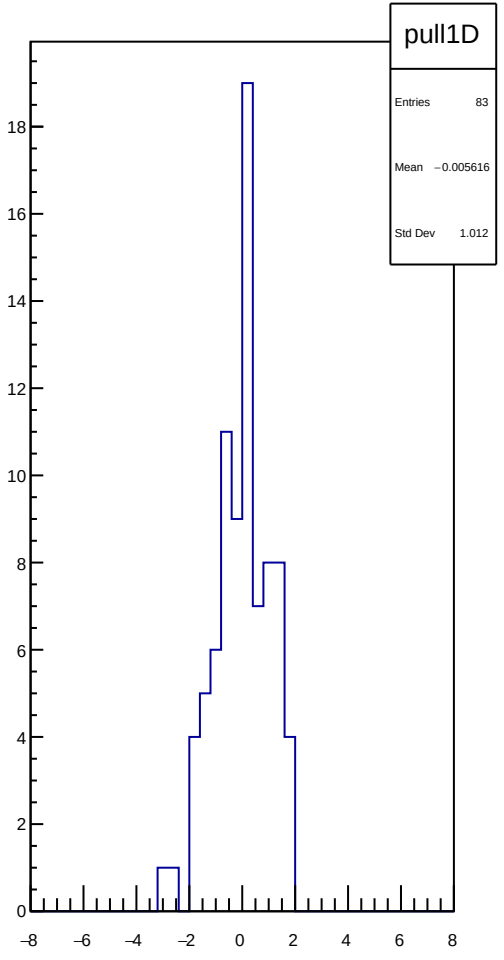

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.68e+04 / 82
p0 5918 ± 4.686
7500
7000
6500
6000
5500
5000
4500

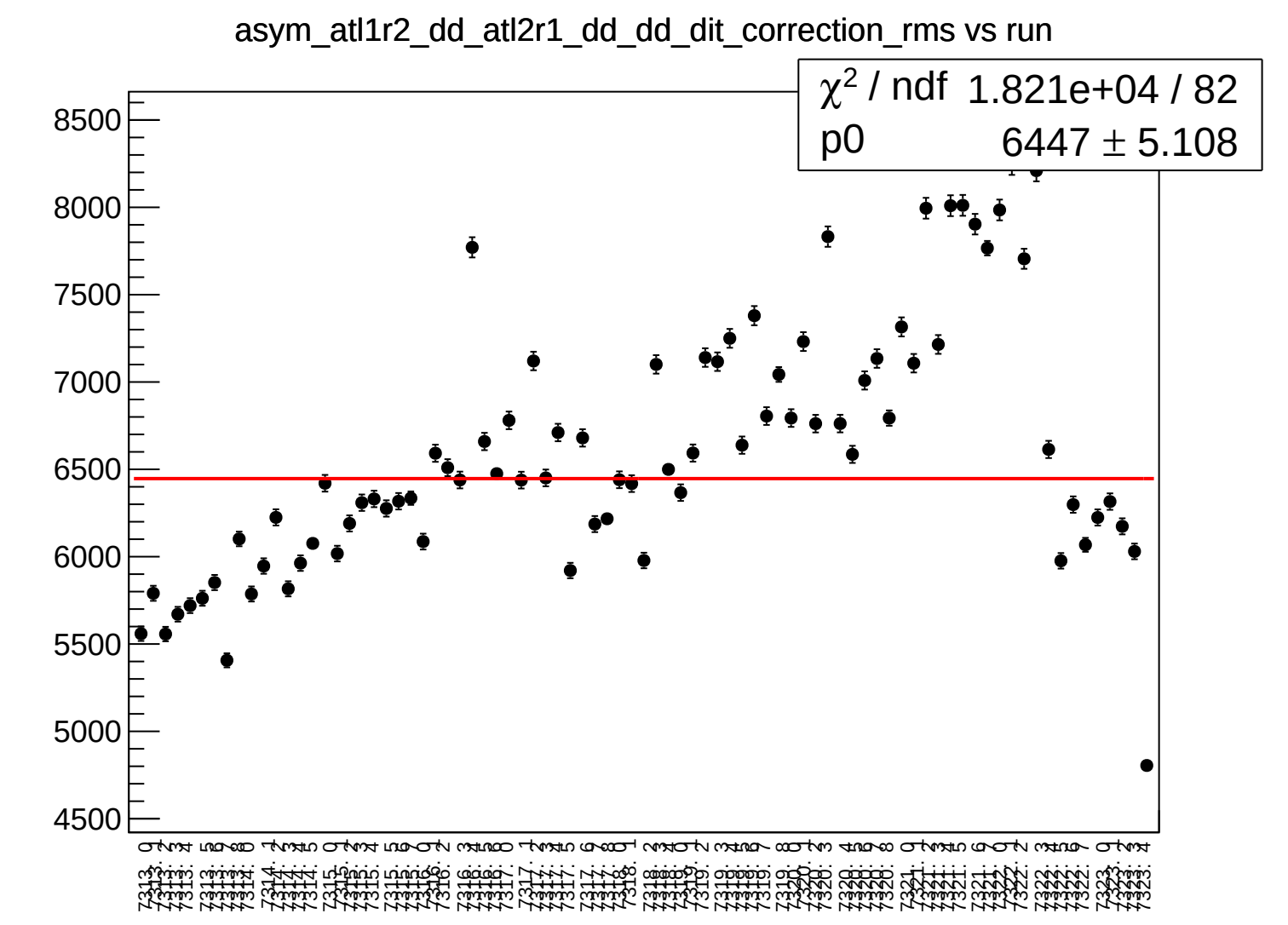

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.79 / 82
p0 −1643 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 451.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

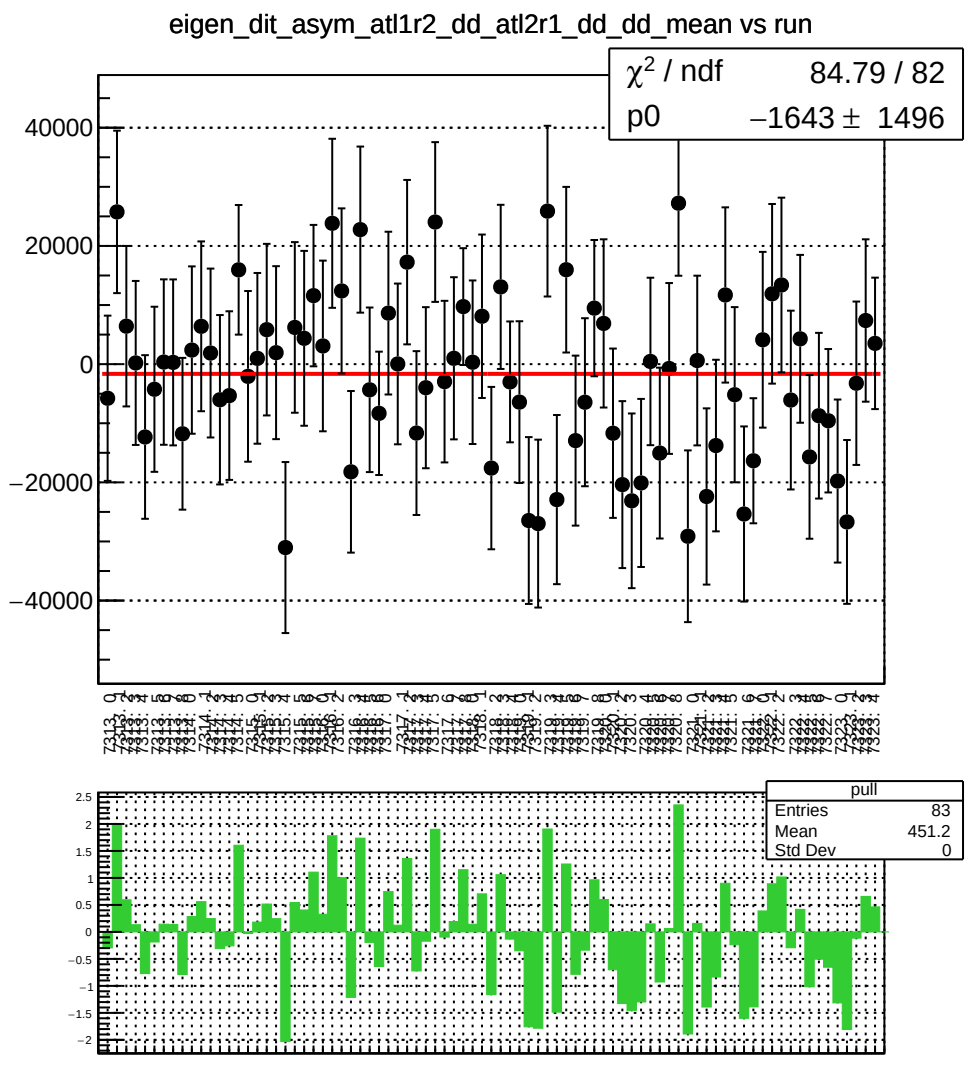

pull1D
Entries 83
Mean −0.01378
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

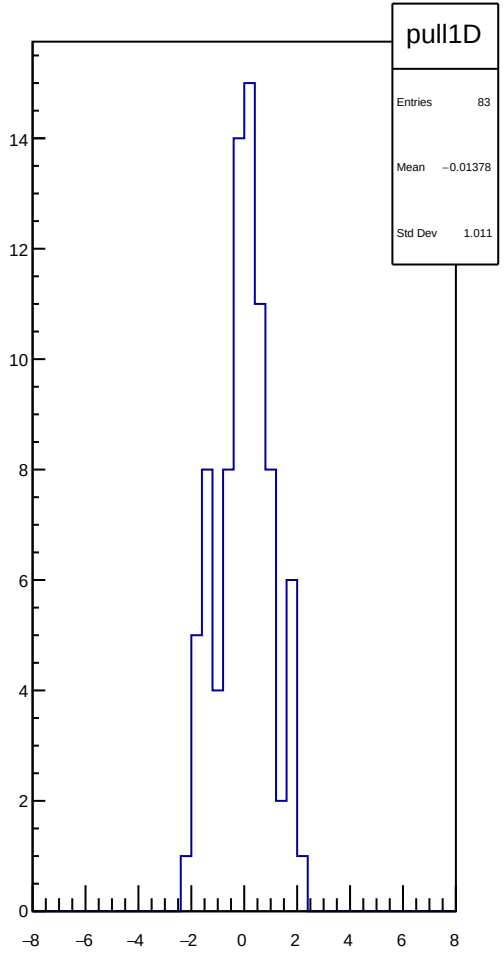

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1306 / 82
p0 1342 ± 1.058
1450
1400
1350
1300
1250

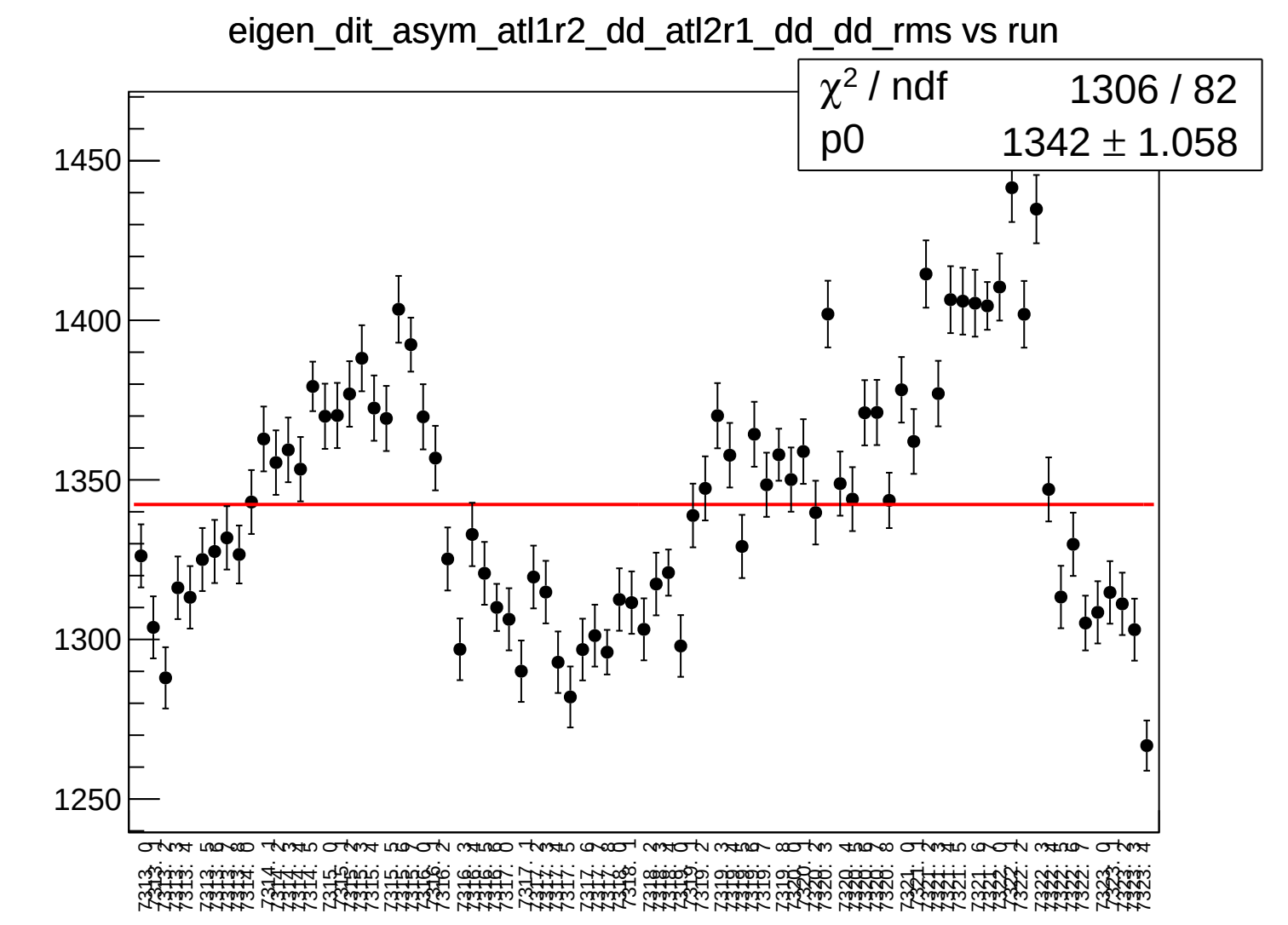

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.93 / 82
p0 −7982 ± 7223
200
100
0
−100
−200
−300
pull
Entries 83
Mean 909.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

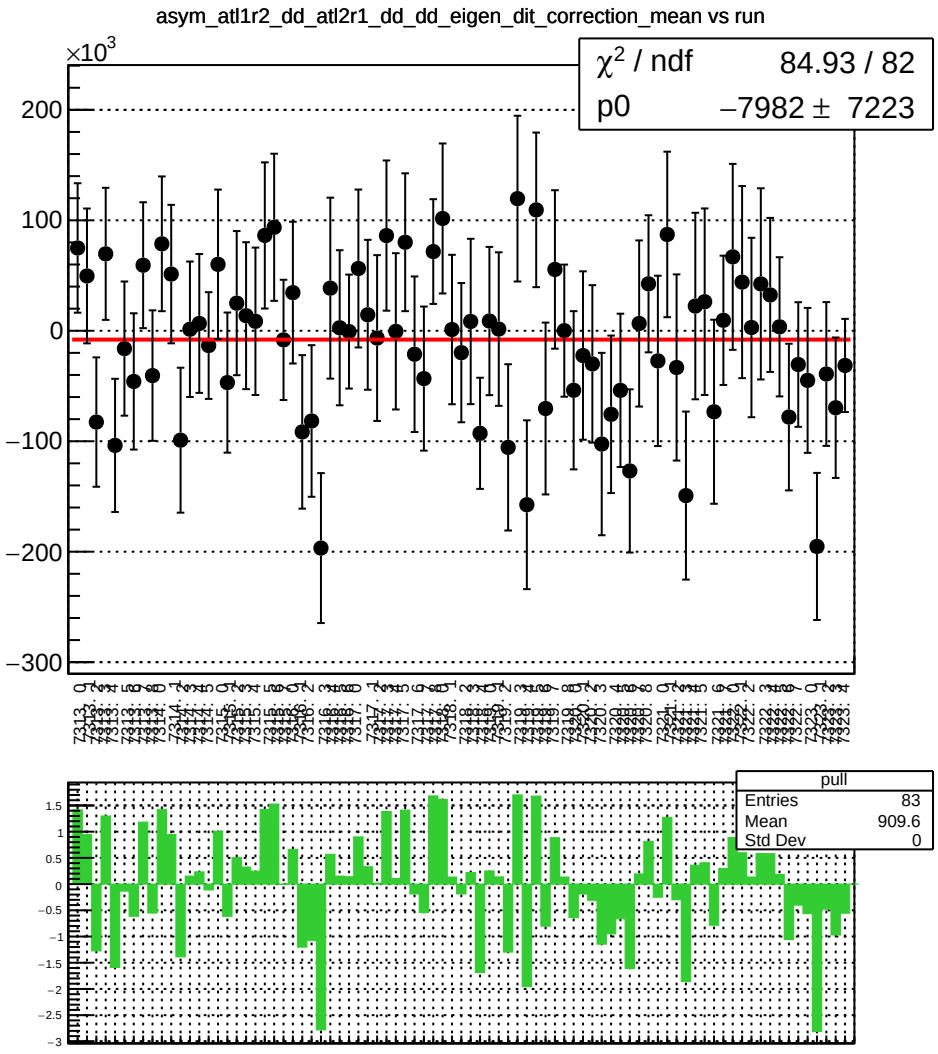

pull1D
Entries 83
Mean −0.005616
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

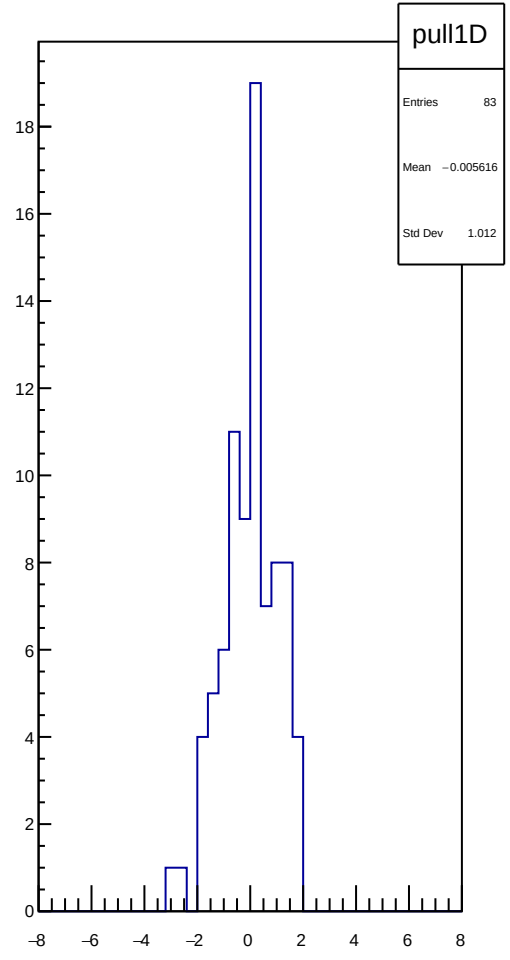

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 82
p0 6447 ± 5.108
8500
8000
7500
7000
6500
6000
5500
5000
4500

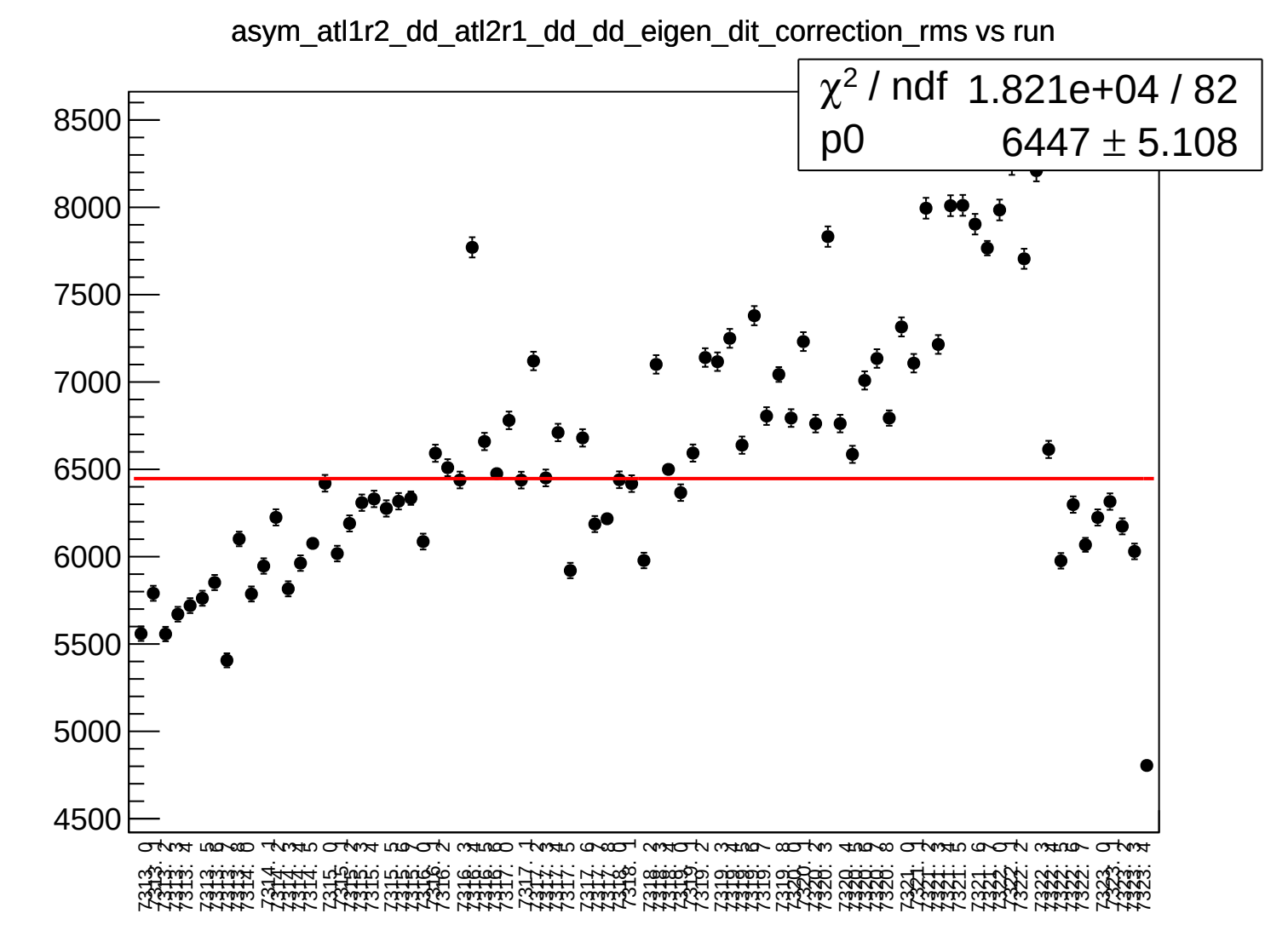

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.79 / 82
p0 −1643 ± 1496
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 451.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

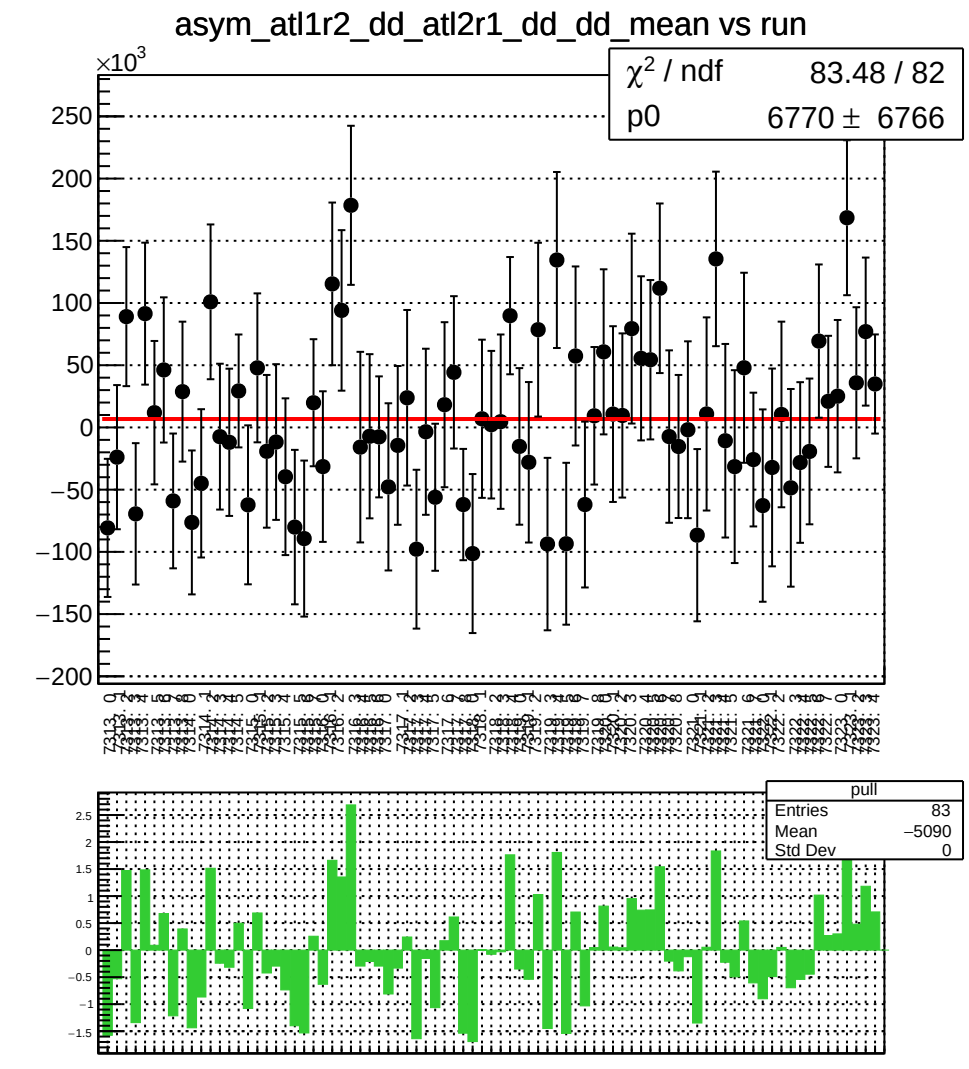

pull1D
Entries 83
Mean −0.01378
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

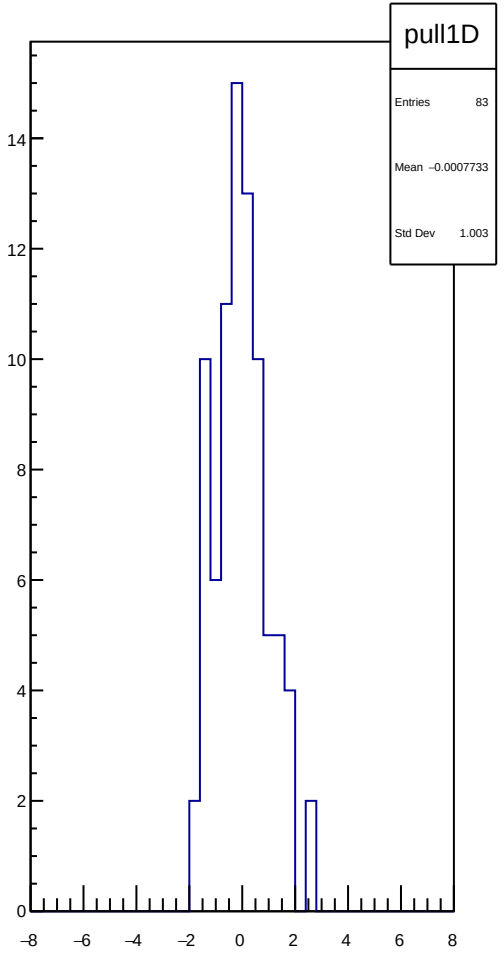

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1306 / 82
p0 1342 ± 1.058
1450
1400
1350
1300
1250

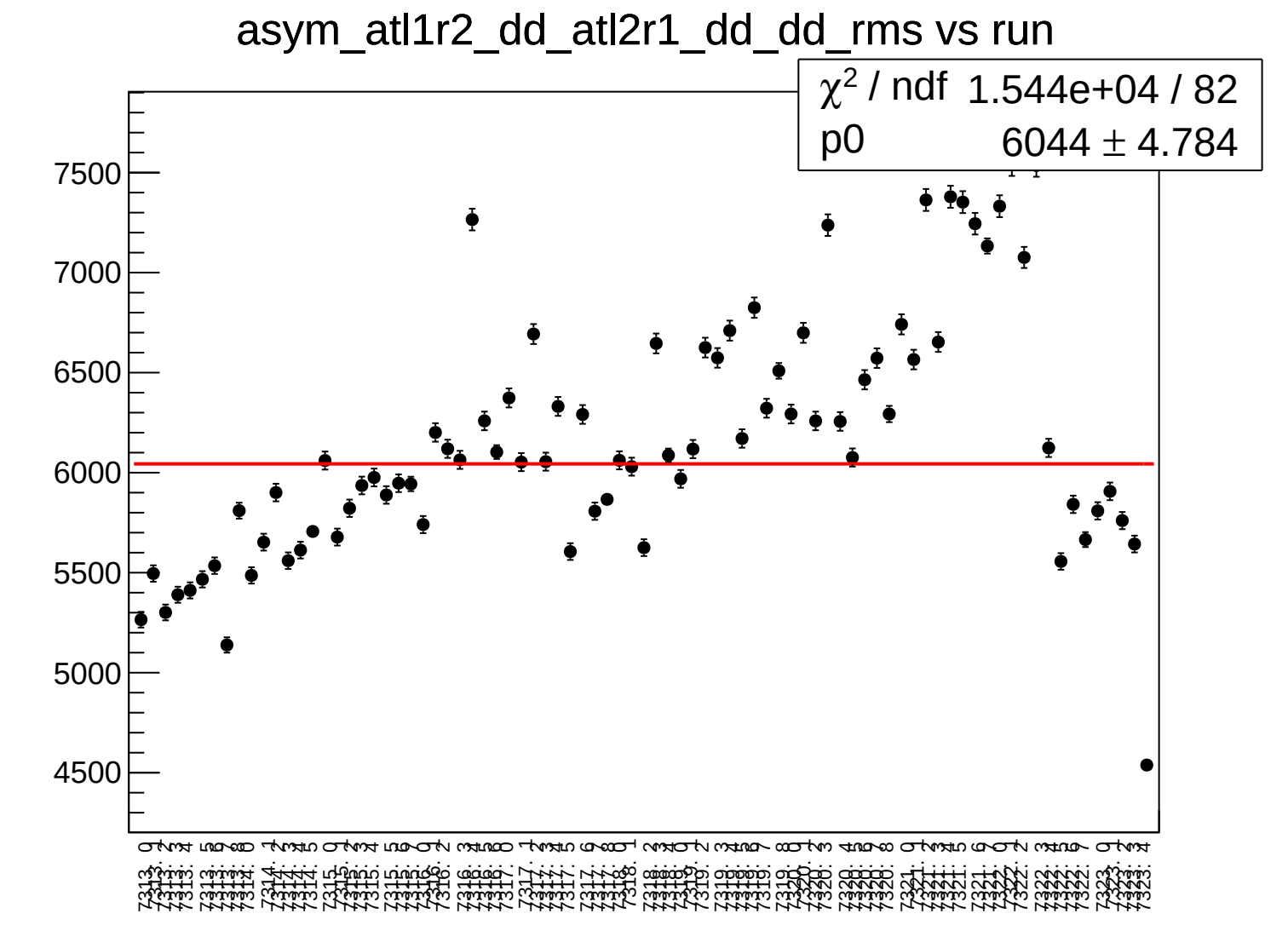

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.93 / 82
p0 −7982 ± 7223
pull
Entries 83
Mean 909.6
Std Dev 0

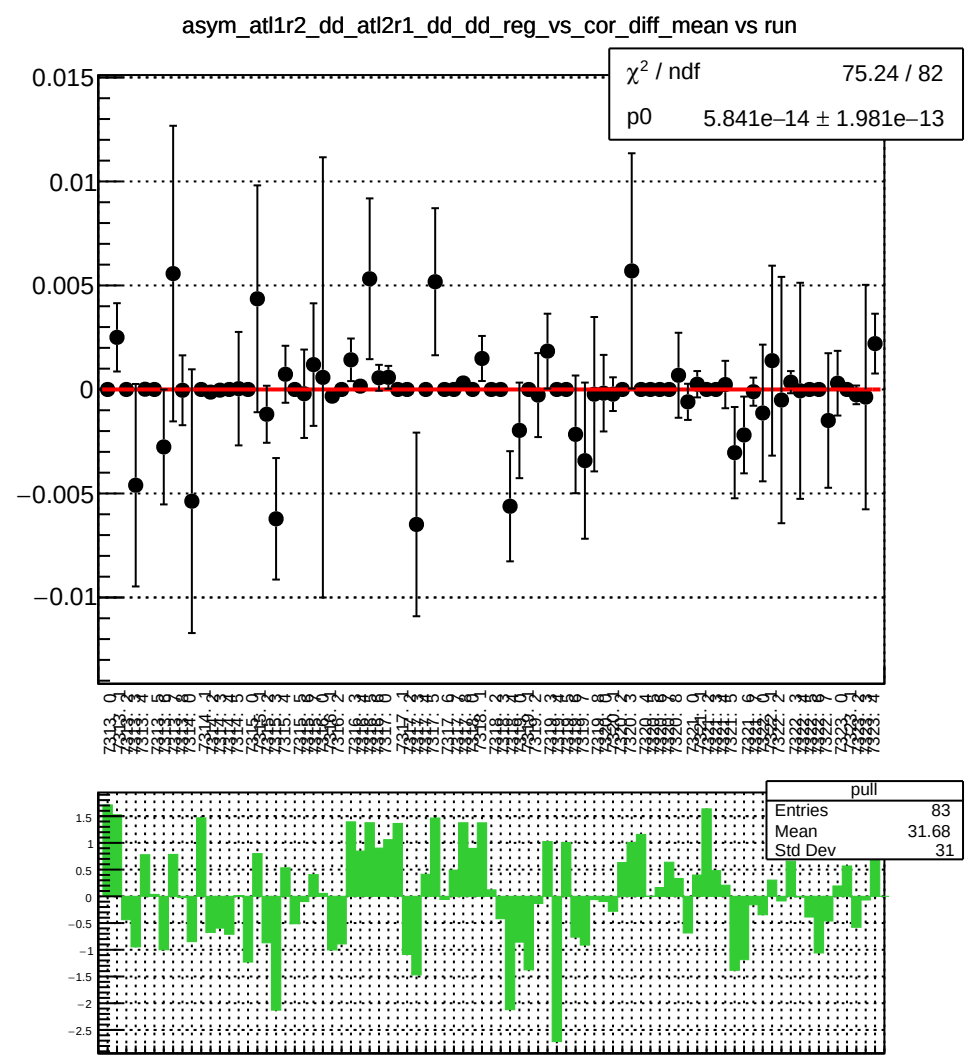

pull1D
Entries 83
Mean −0.005616
Std Dev 1.012

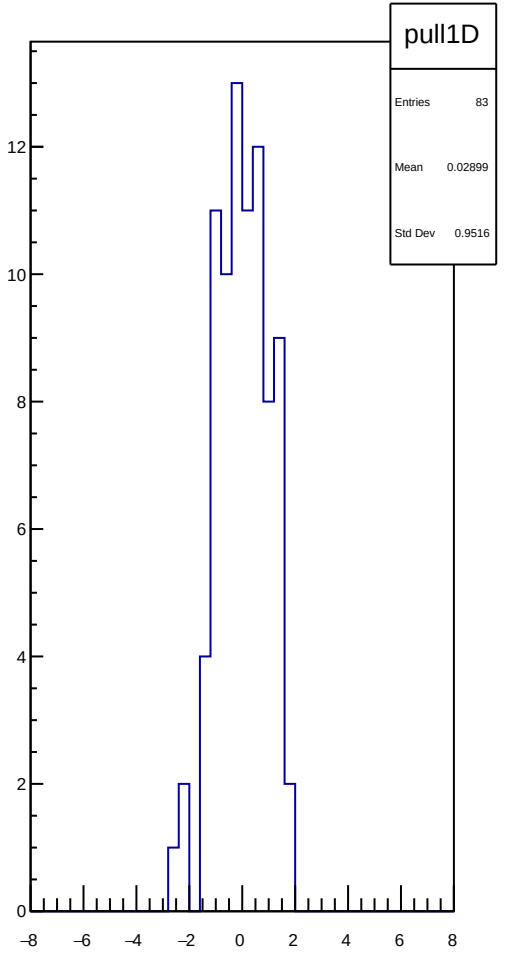

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.821e+04 / 82
p0 6447 ± 5.108
8500
8000
7500
7000
6500
6000
5500
5000
4500

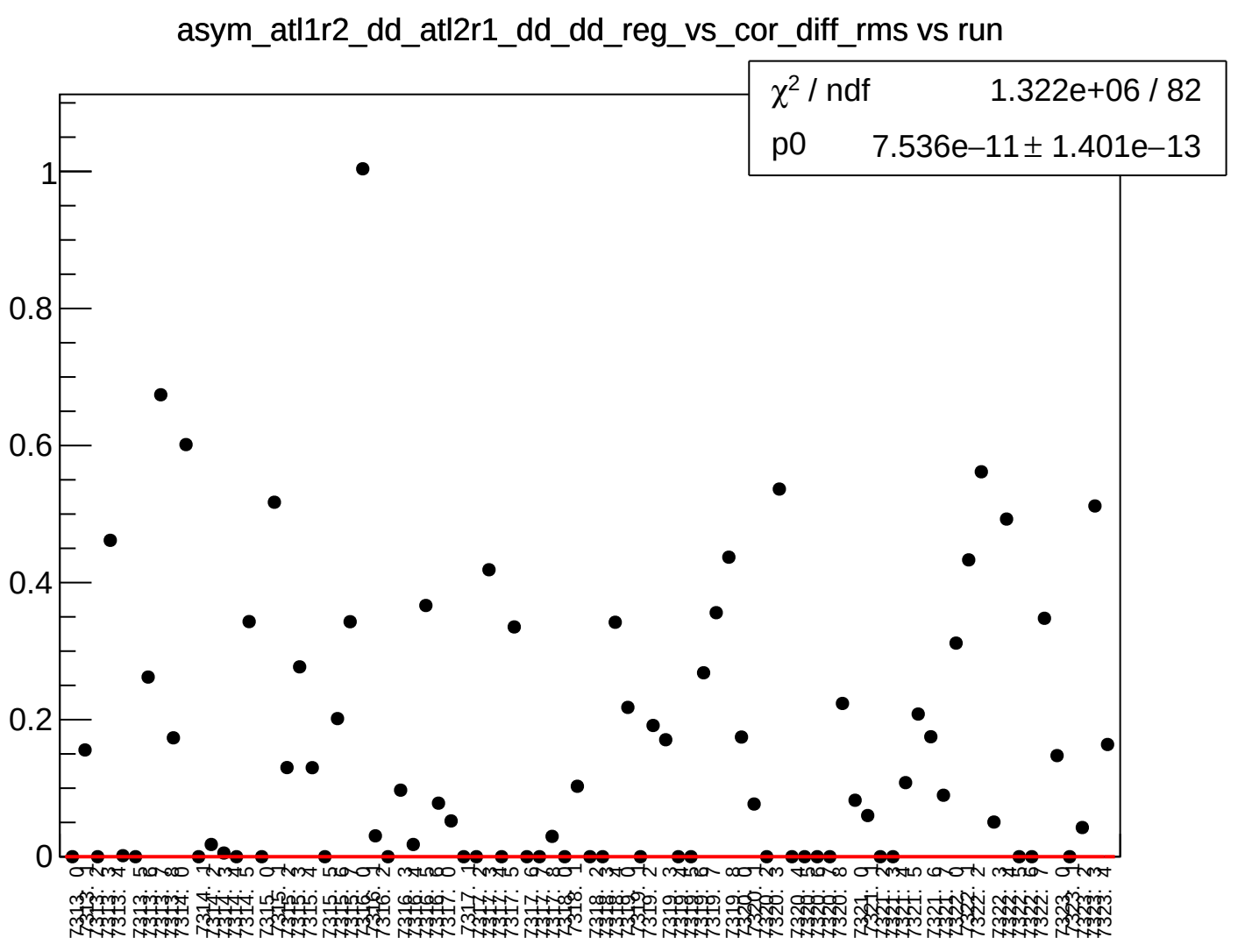

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 83.48 / 82
p0 6770 ± 6766
pull
Entries 83
Mean −5090
Std Dev 0

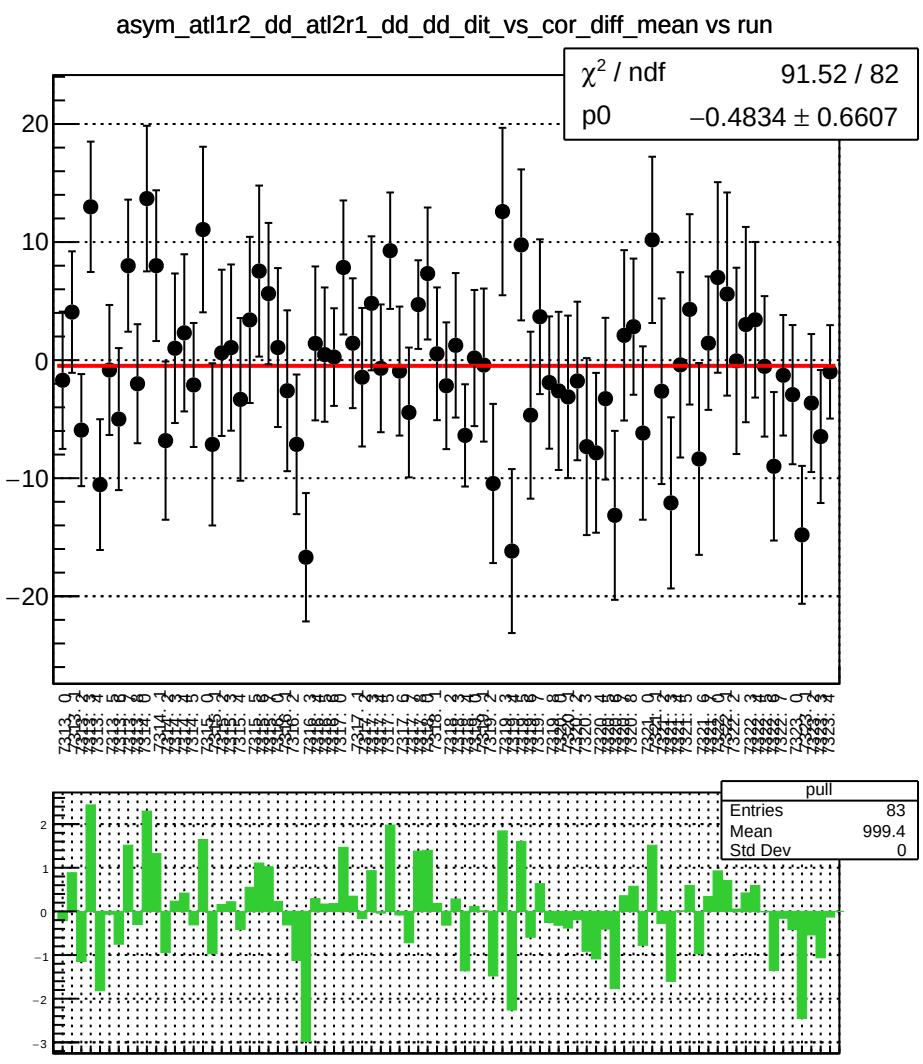

pull1D
Entries 83
Mean −0.0007733
Std Dev 1.003

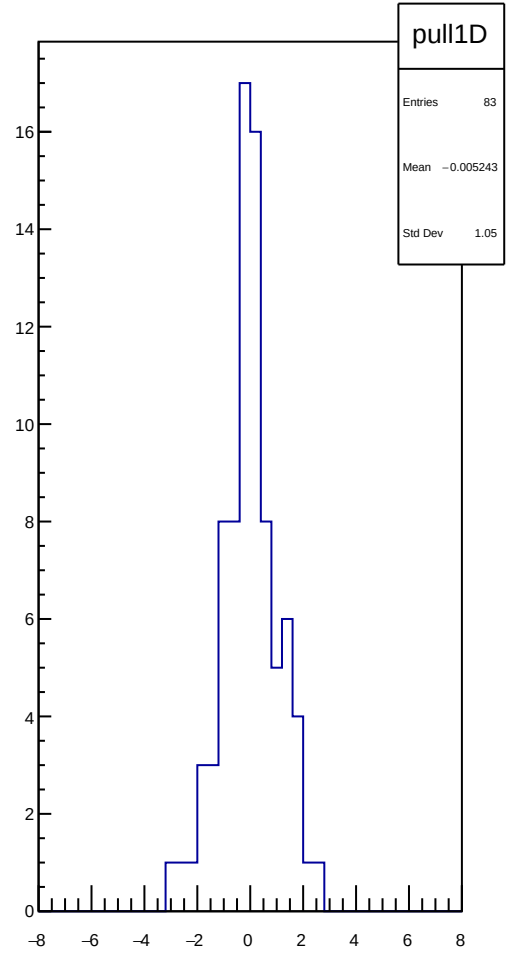

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.544e+04 / 82
p0 6044 ± 4.784
7500
7000
6500
6000
5500
5000
4500

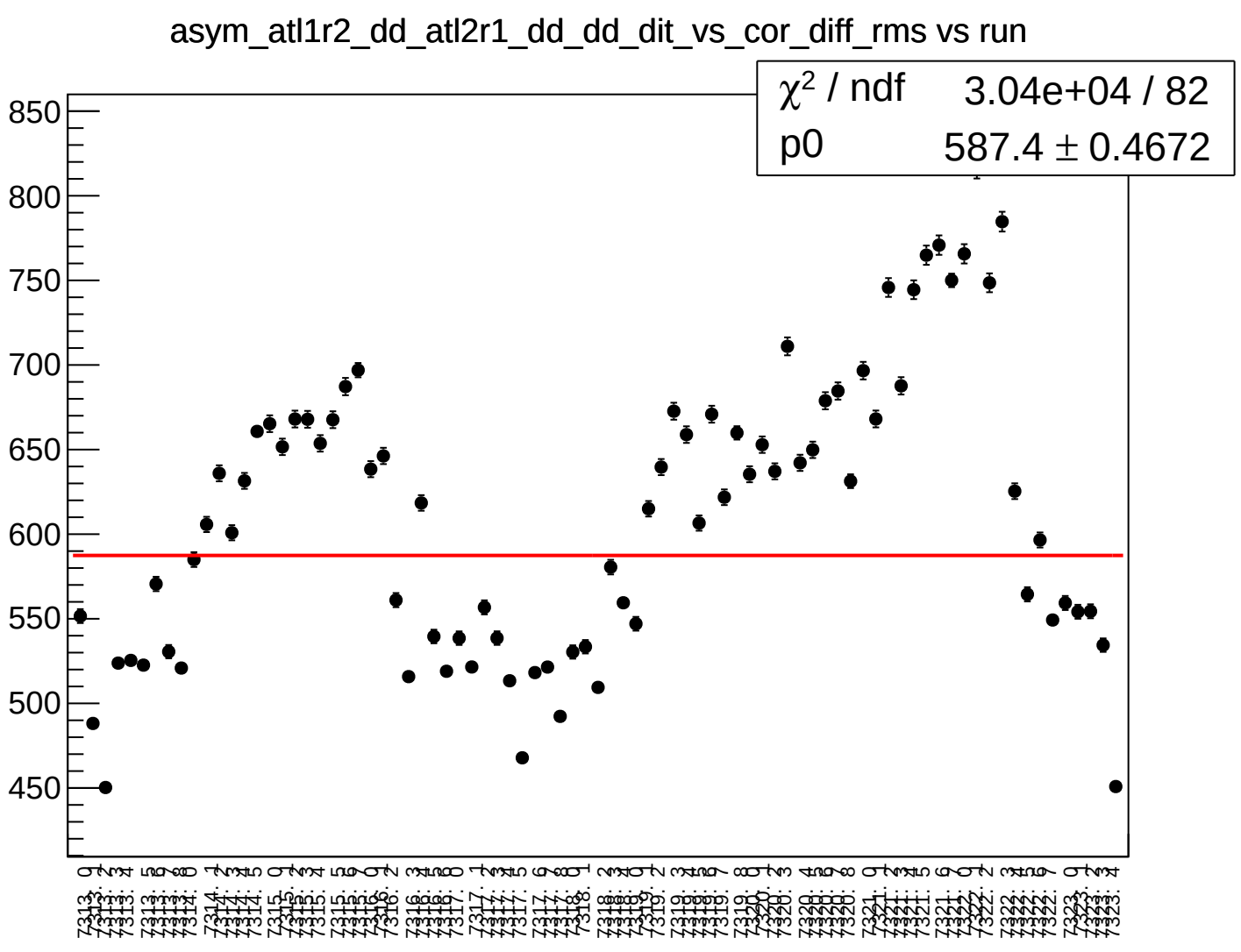

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.24 / 82
p0 5.841e−14 ± 1.981e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 83
Mean 31.68
Std Dev 31
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

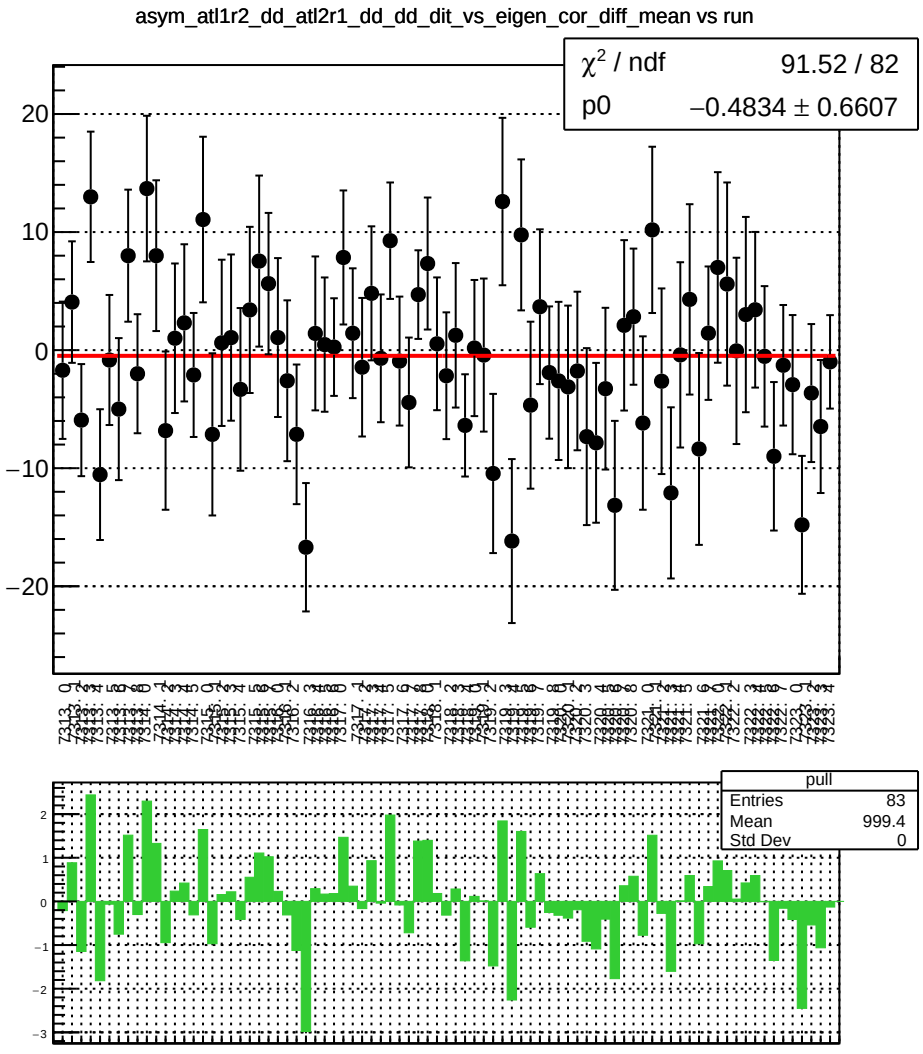

pull1D
Entries 83
Mean 0.02899
Std Dev 0.9516
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

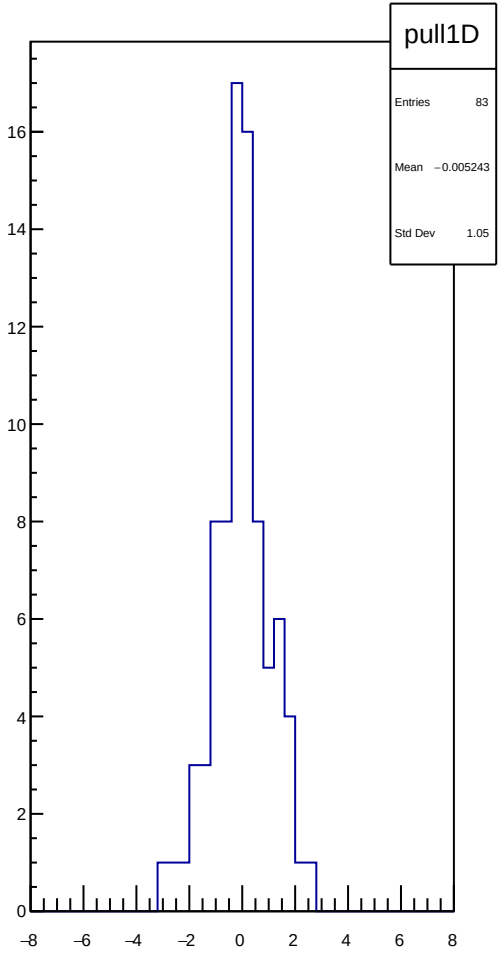

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.322e+06 / 82
p0 7.536e−11 ± 1.401e−13
1
0.8
0.6
0.4
0.2
0

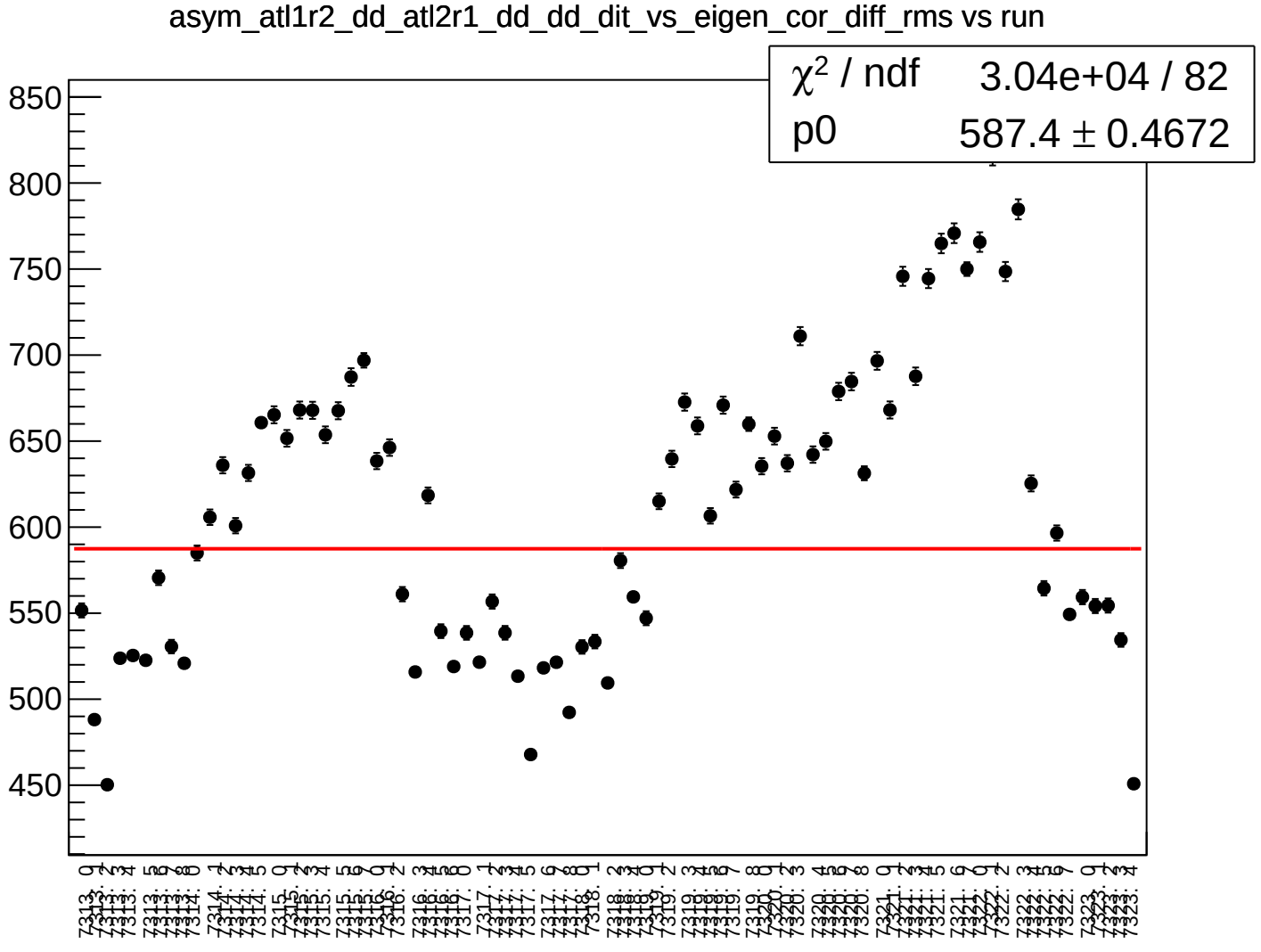

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.4
Std Dev 0

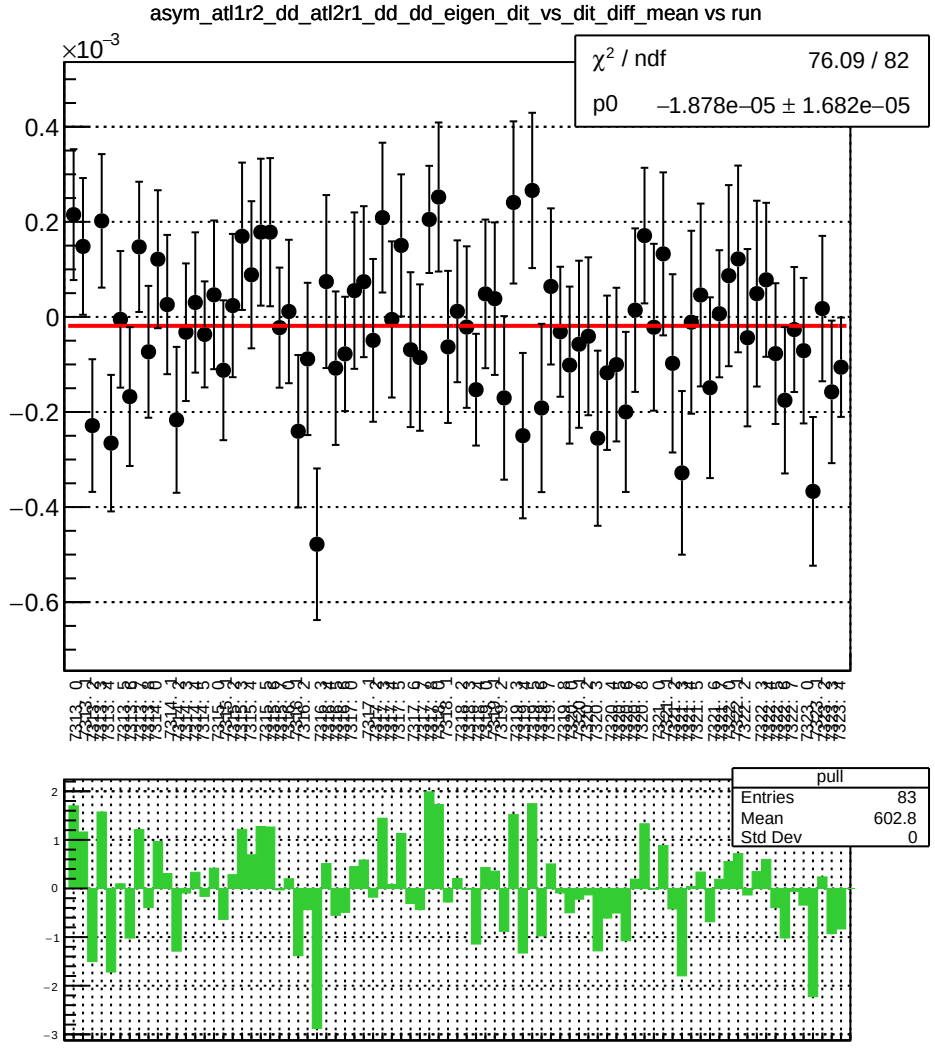

pull1D
Entries 83
Mean −0.005243
Std Dev 1.05

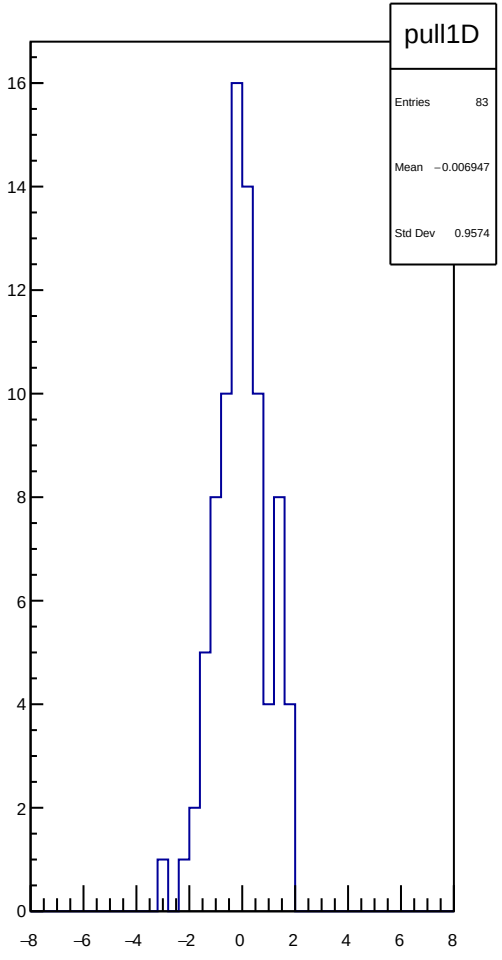

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

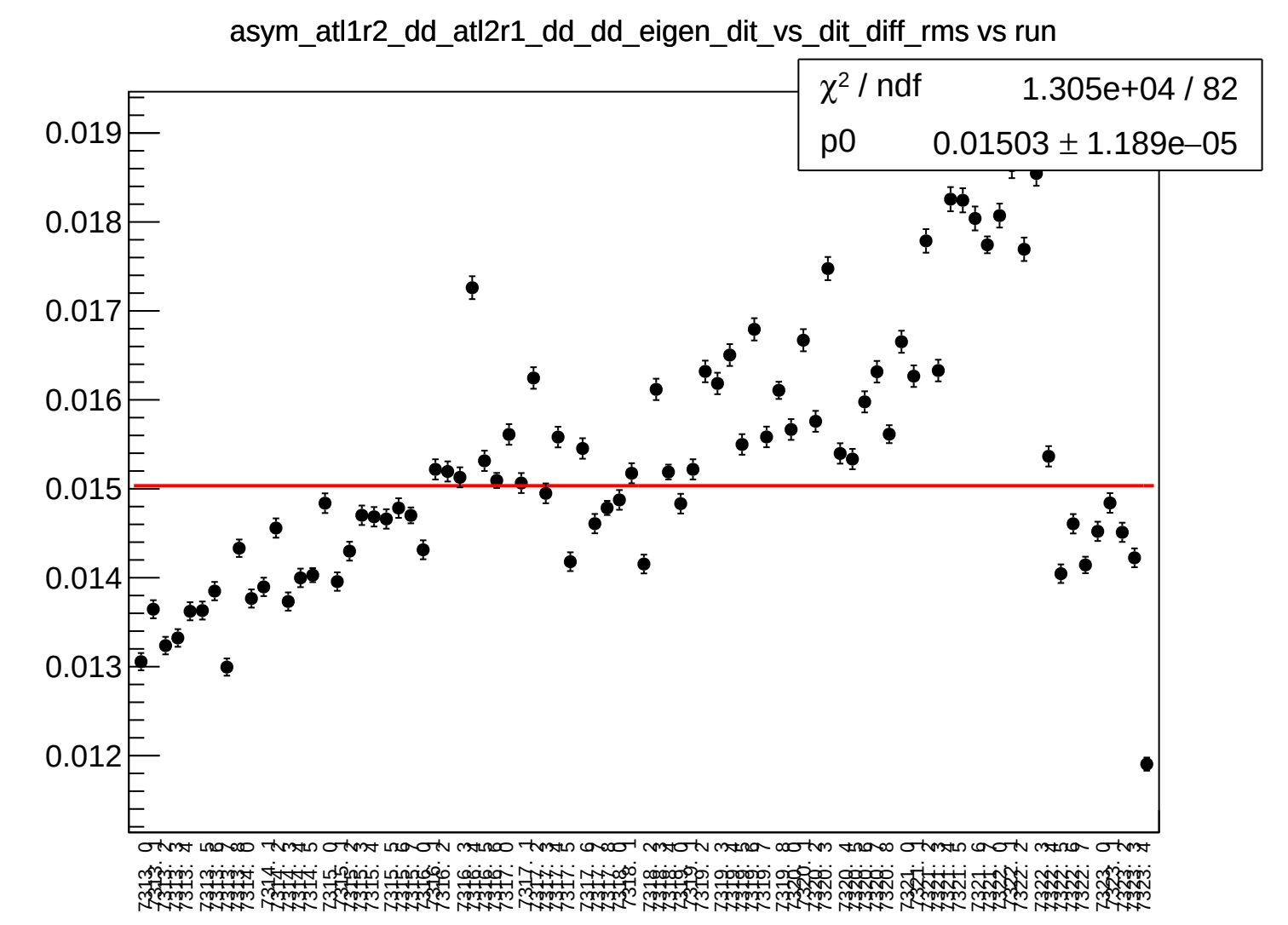

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.4
Std Dev 0

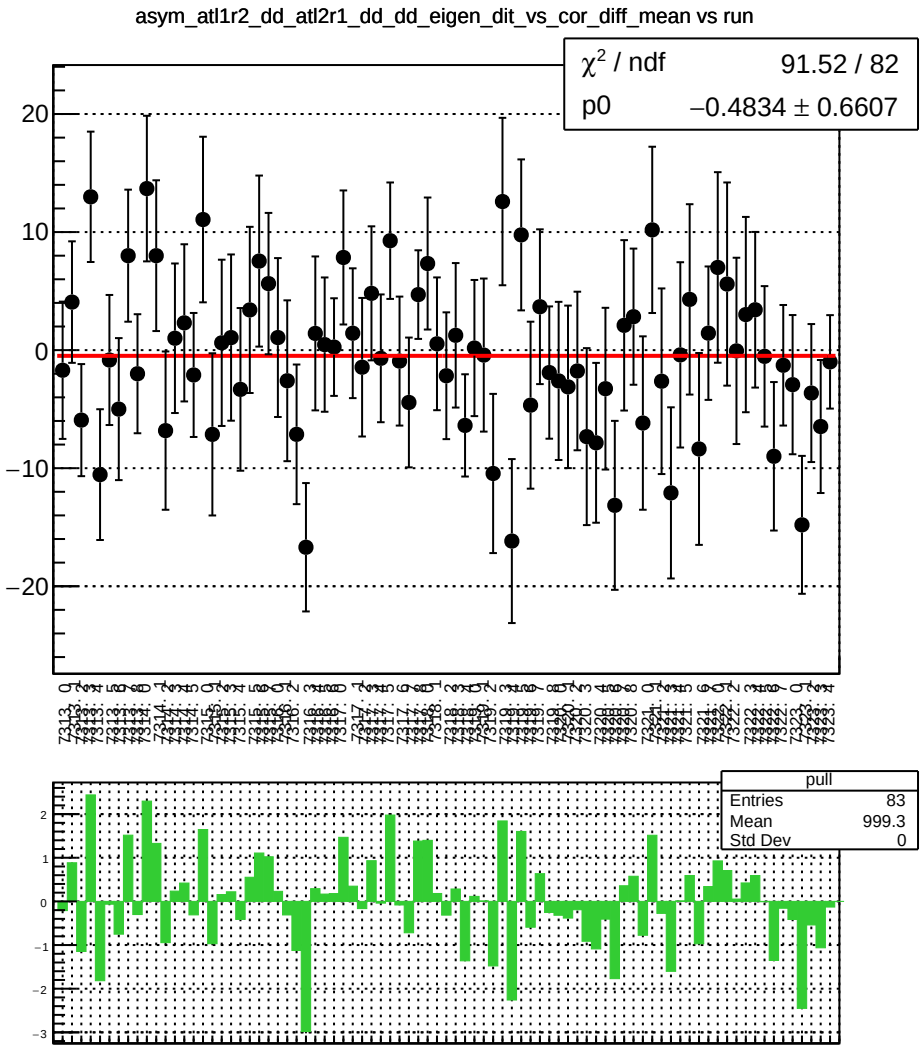

pull1D
Entries 83
Mean −0.005243
Std Dev 1.05

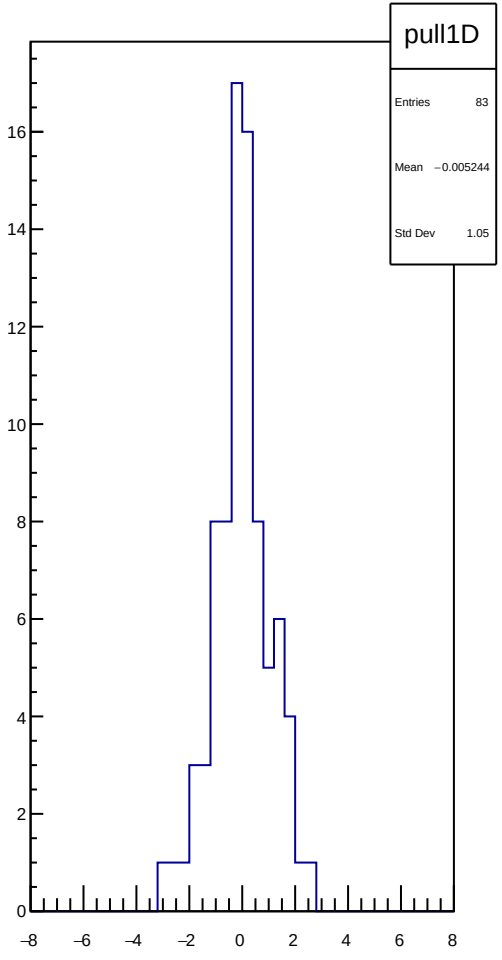

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

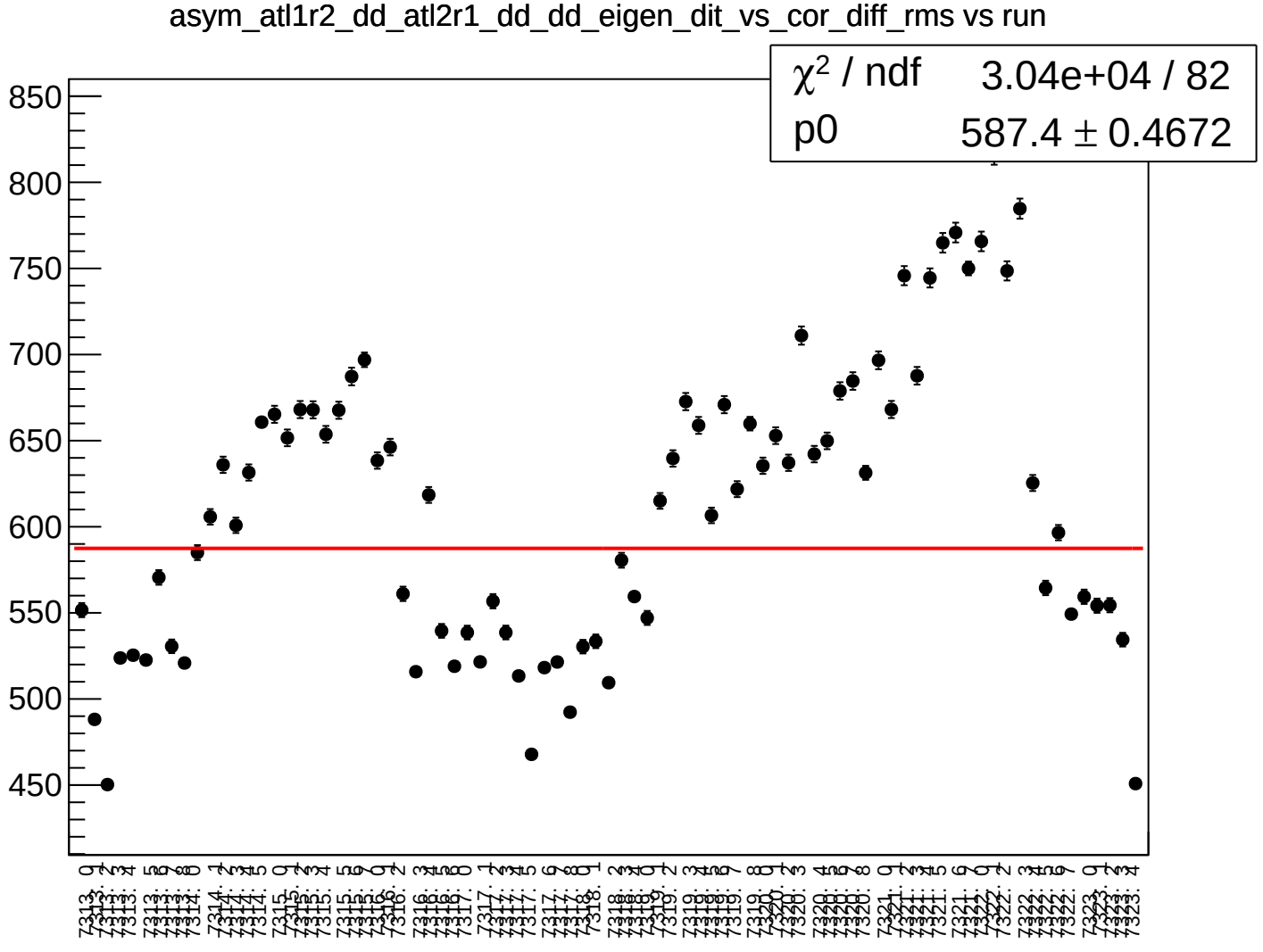

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.09 / 82
p0 −1.878e−05 ± 1.682e−05
pull
Entries 83
Mean 602.8
Std Dev 0

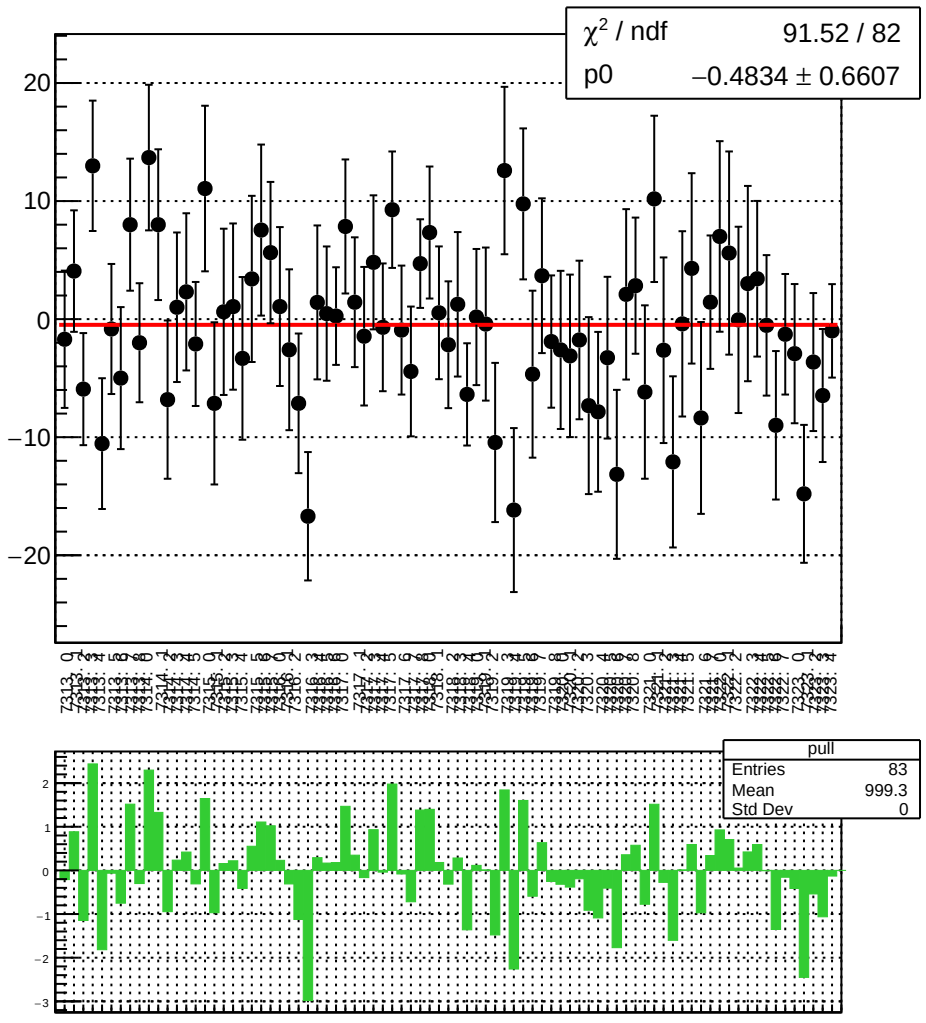

pull1D
Entries 83
Mean −0.006947
Std Dev 0.9574

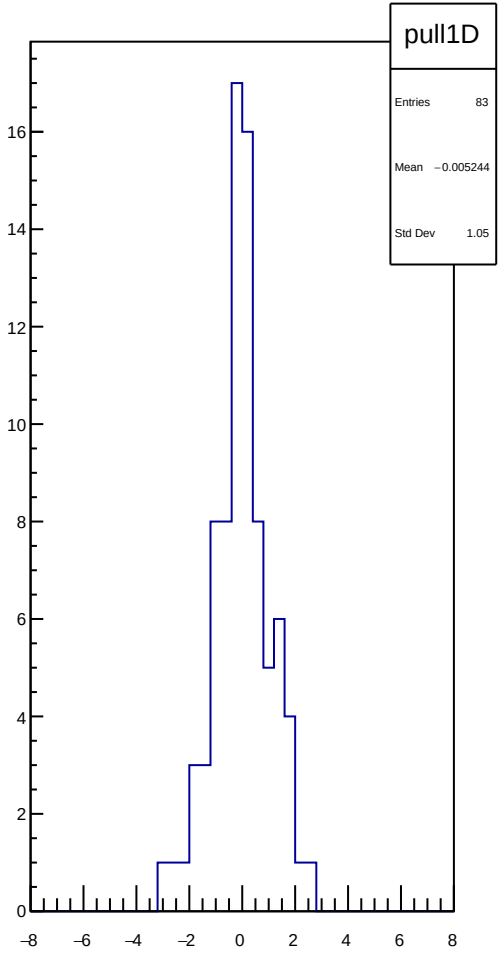

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.305e+04 / 82
p0 0.01503 ± 1.189e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

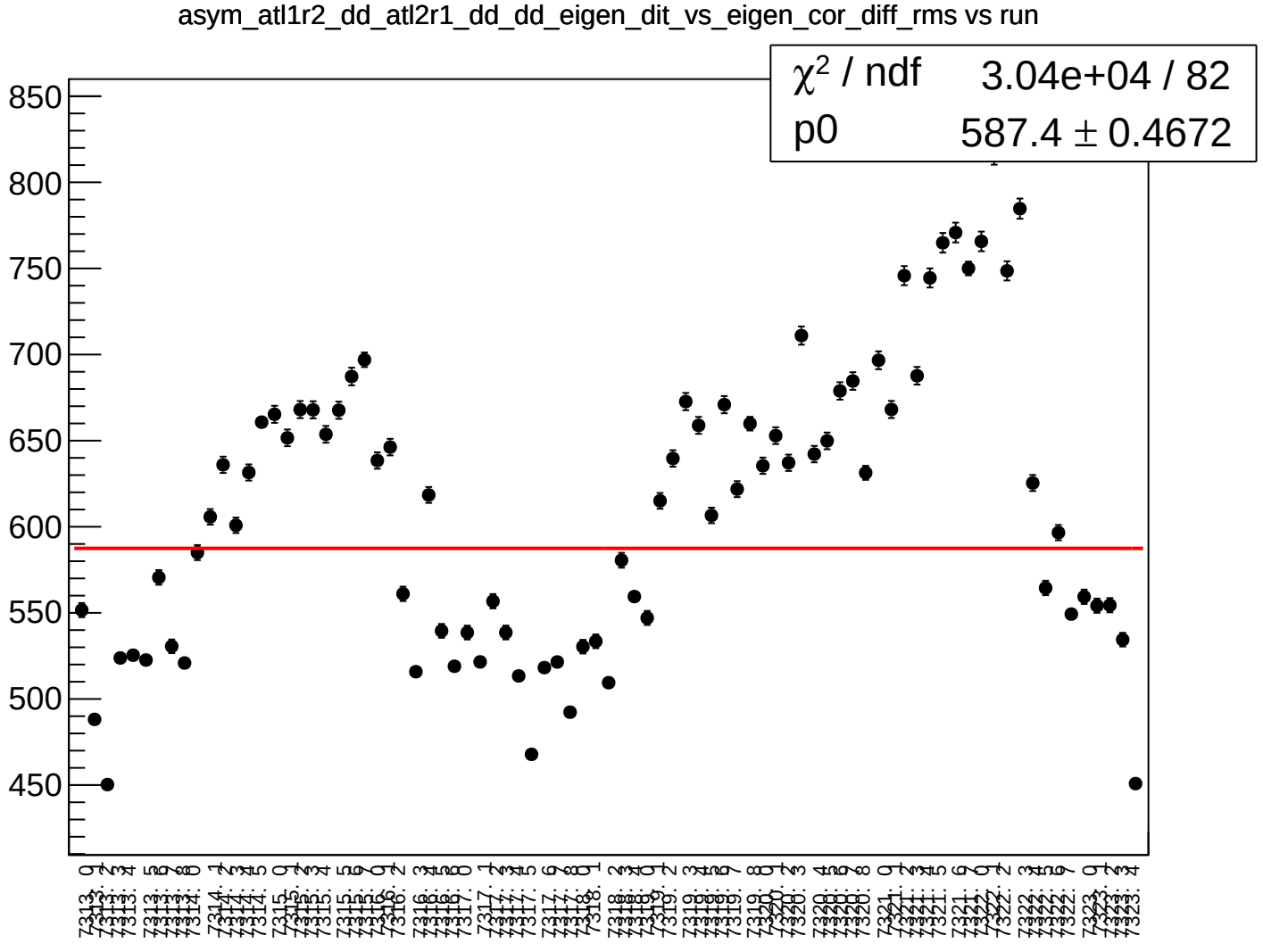

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.3
Std Dev 0

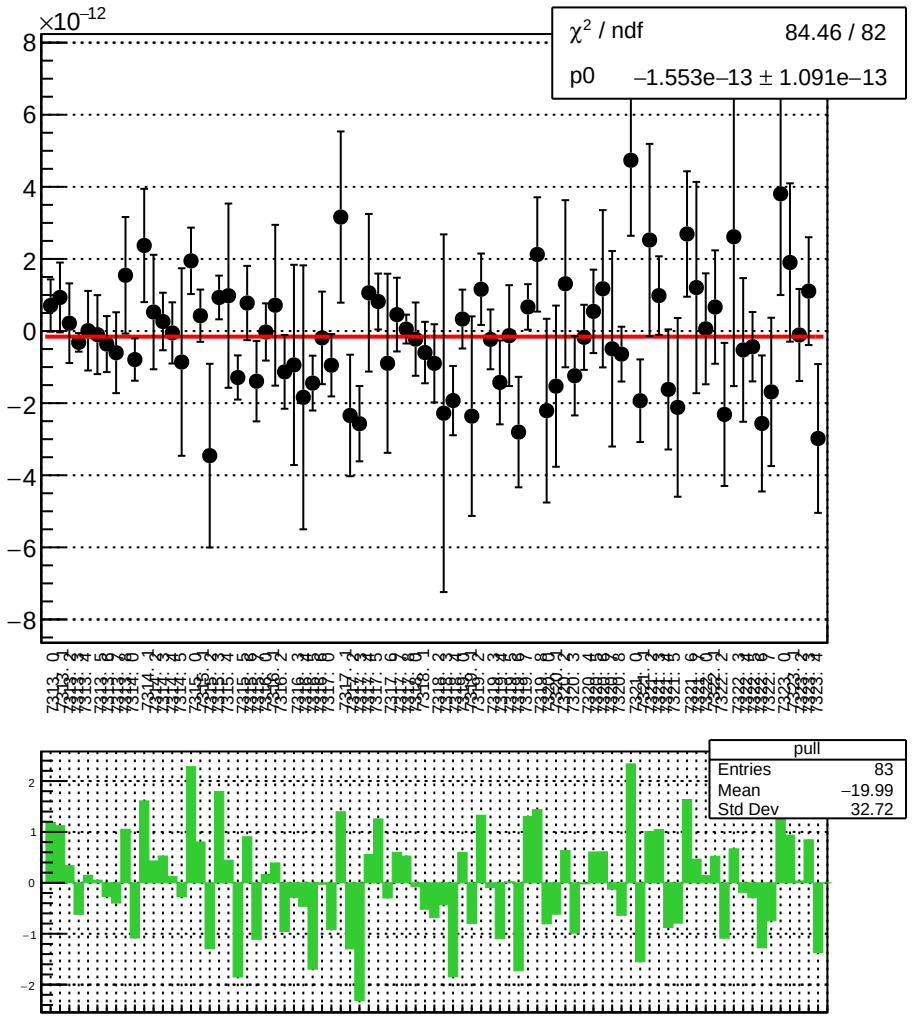

pull1D
Entries 83
Mean −0.005244
Std Dev 1.05

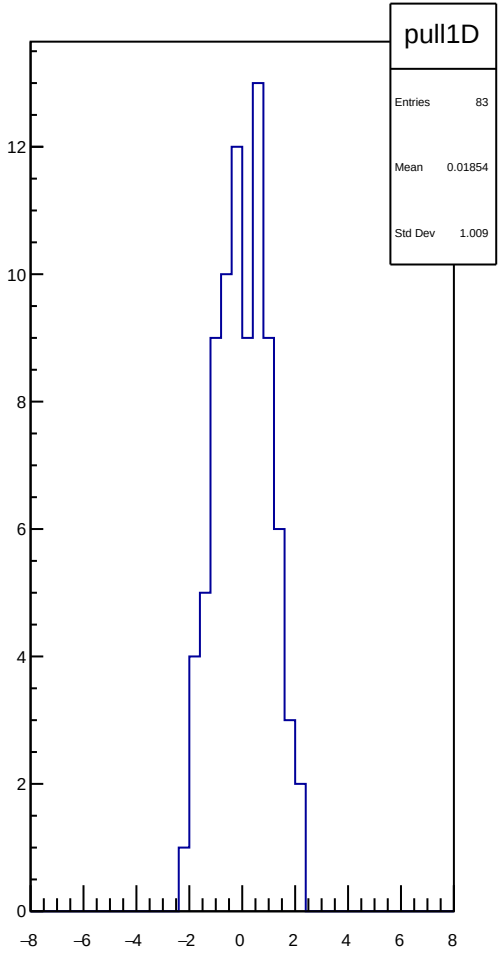

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

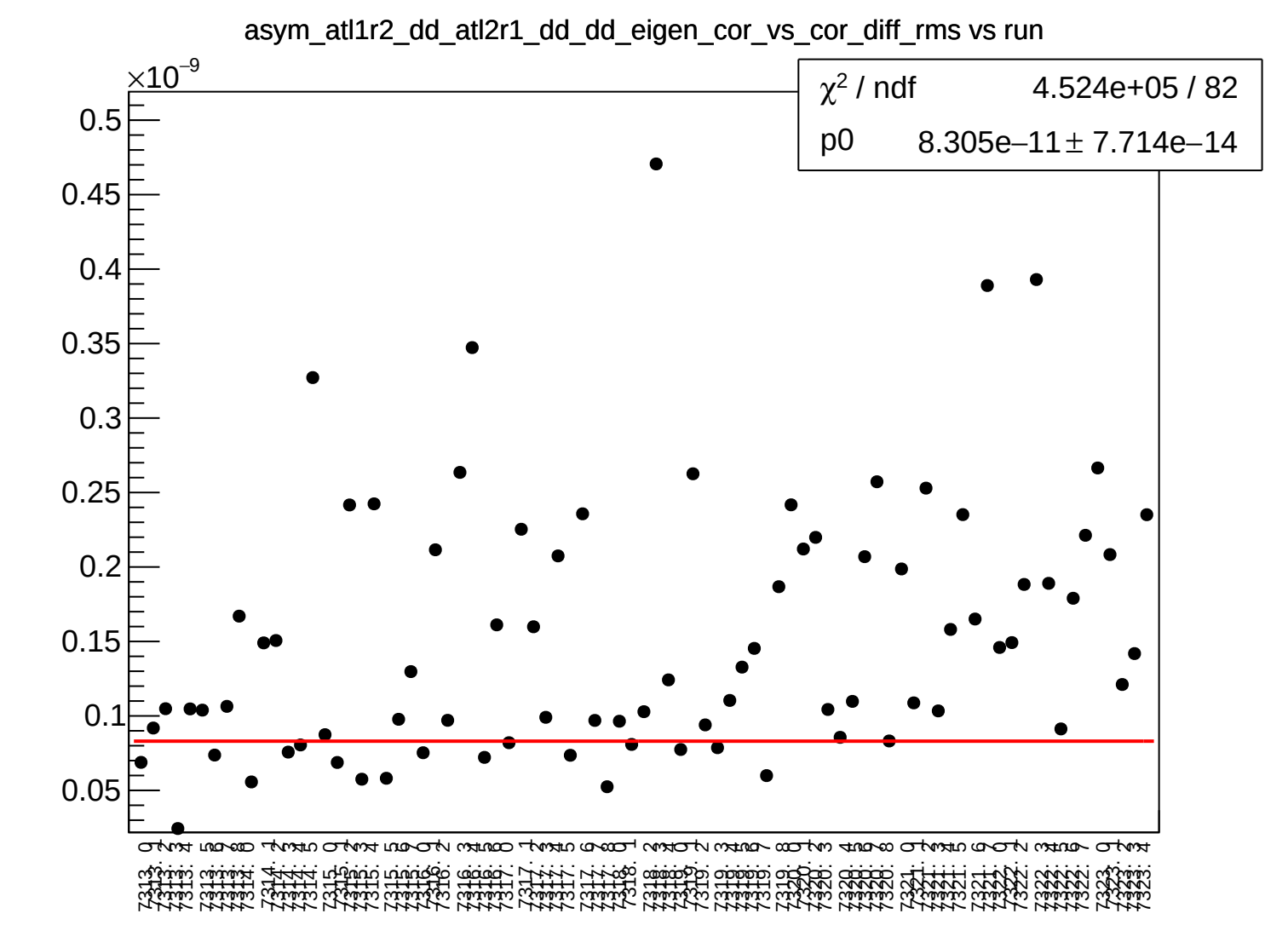

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.52 / 82
p0 −0.4834 ± 0.6607
pull
Entries 83
Mean 999.3
Std Dev 0

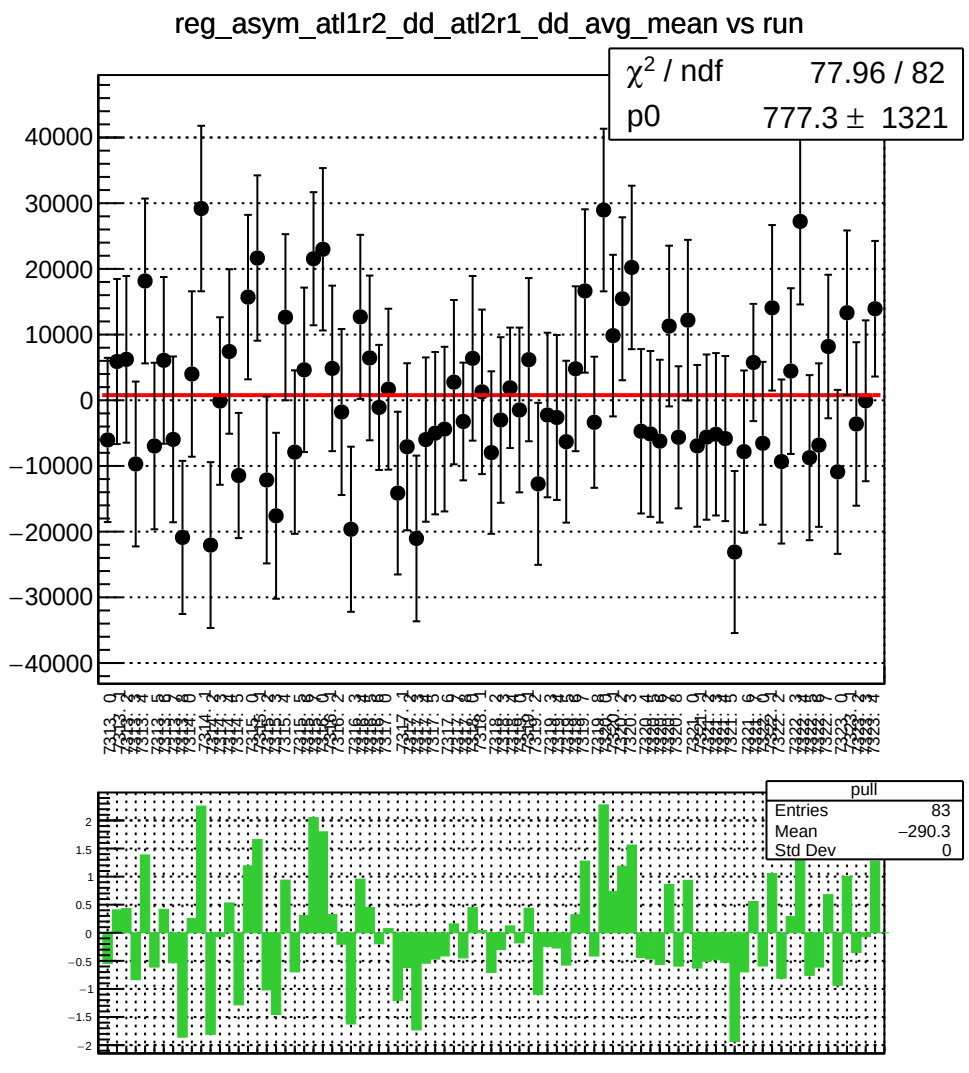

pull1D
Entries 83
Mean −0.005244
Std Dev 1.05

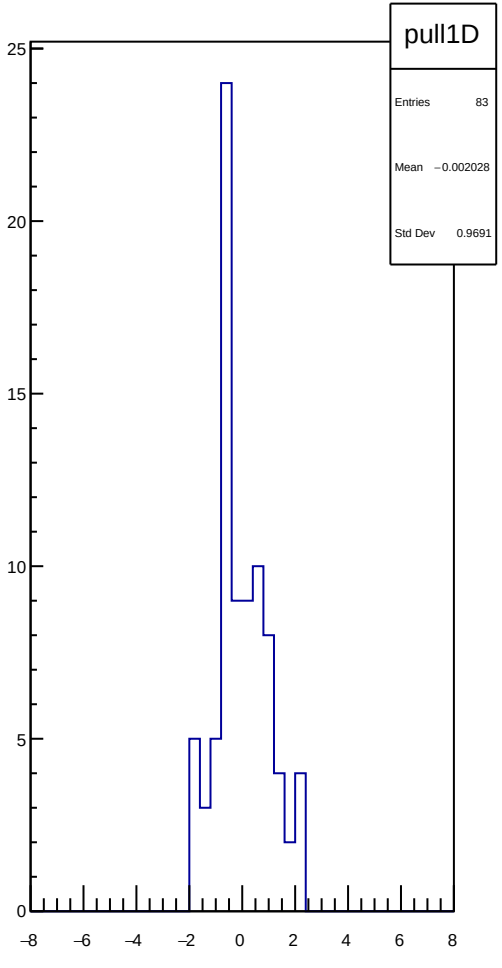

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.04e+04 / 82
p0 587.4 ± 0.4672
850
800
750
700
650
600
550
500
450

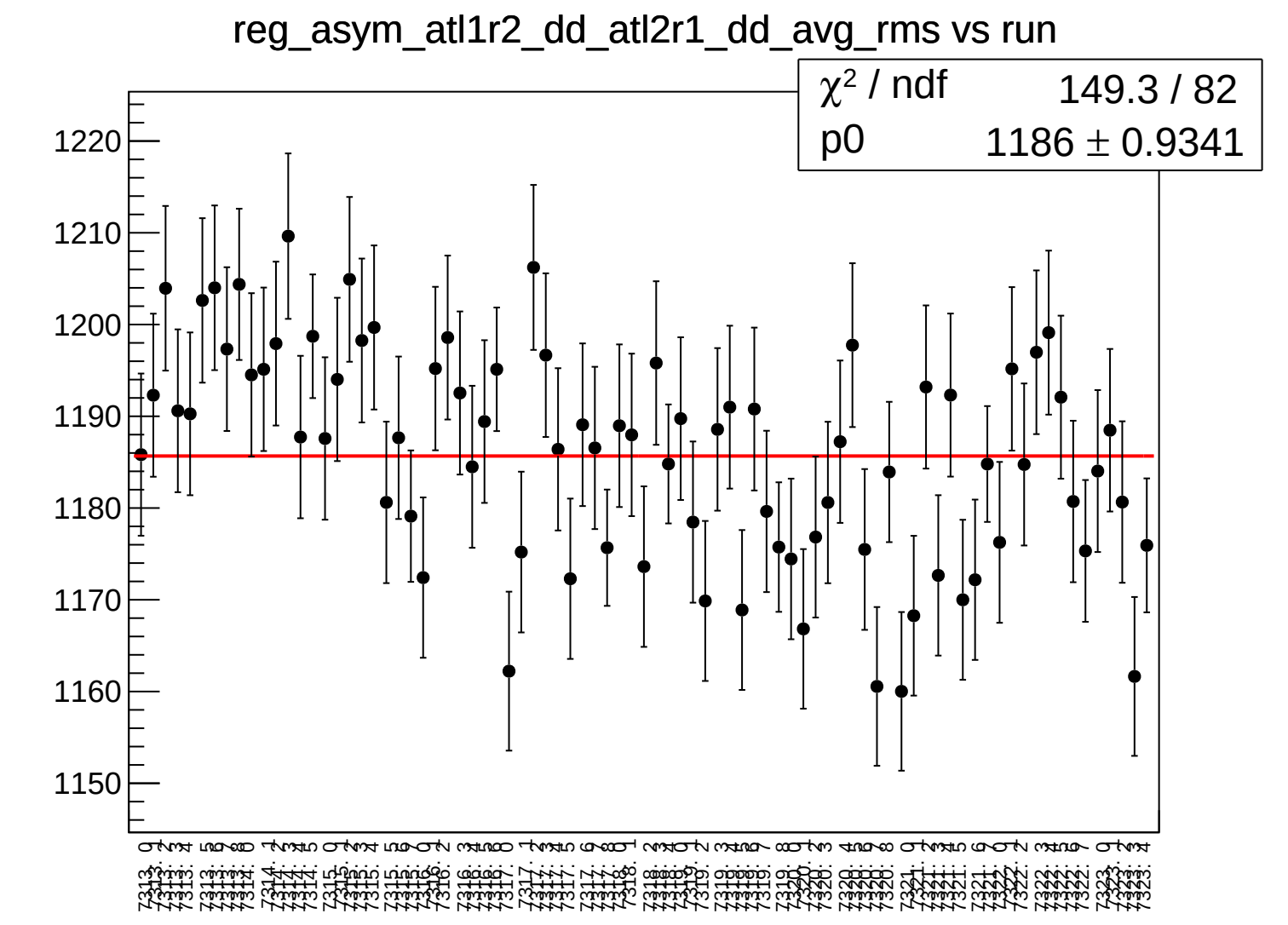

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.46 / 82
p0 −1.553e−13 ± 1.091e−13
pull
Entries 83
Mean −19.99
Std Dev 32.72

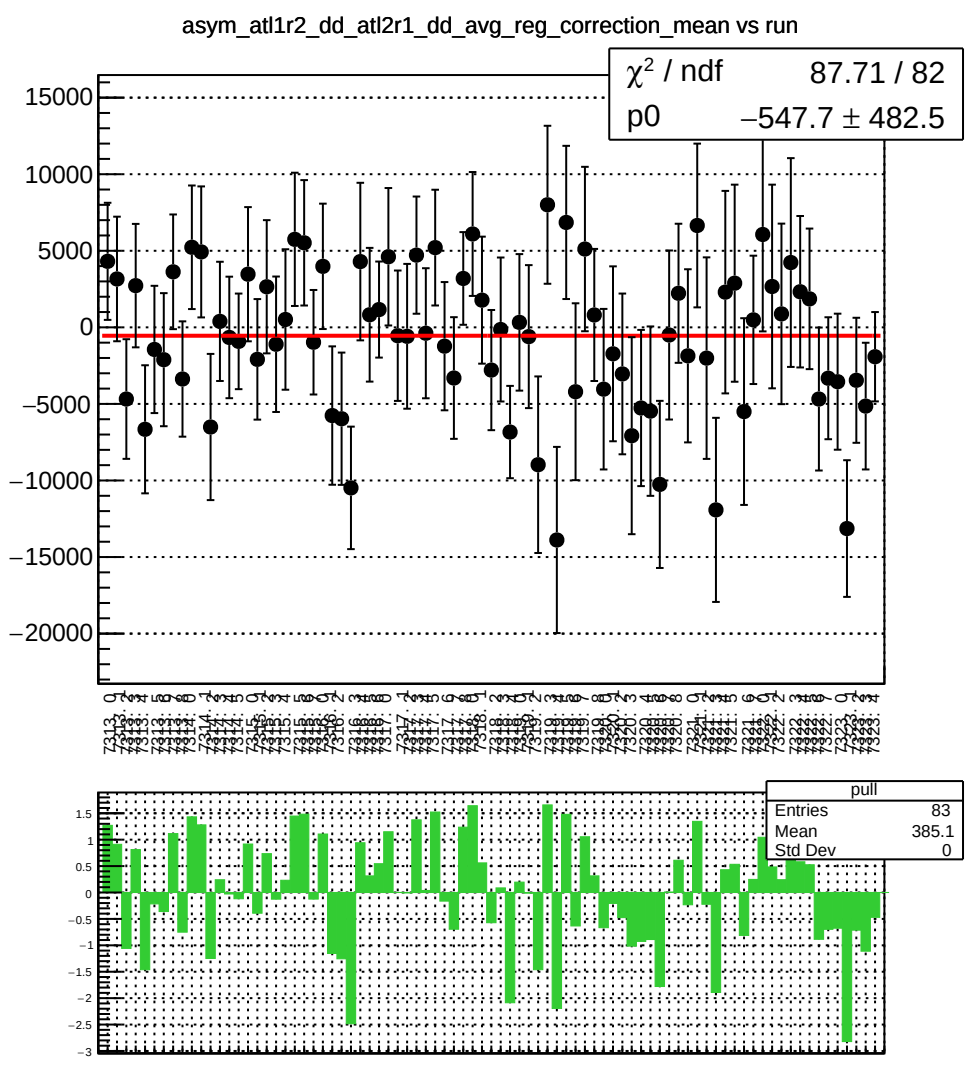

pull1D
Entries 83
Mean 0.01854
Std Dev 1.009

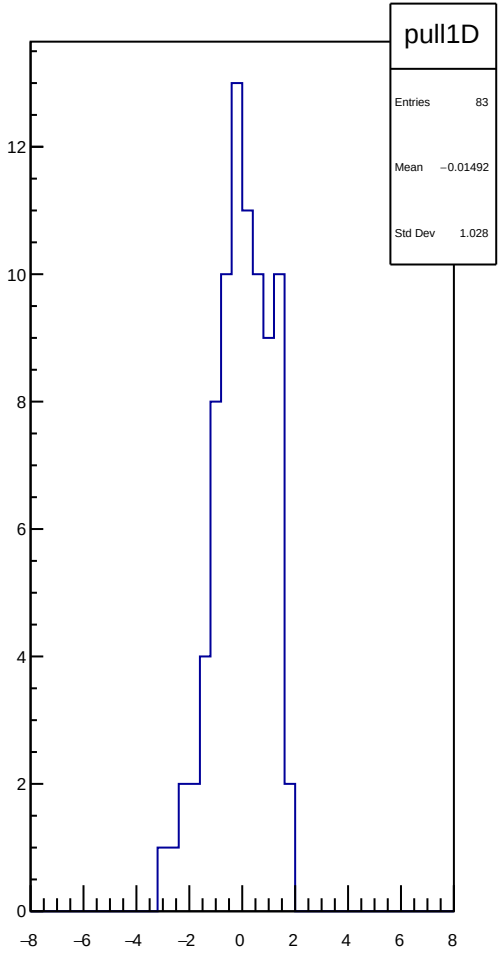

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.524e+05 / 82
p0 8.305e−11 ± 7.714e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

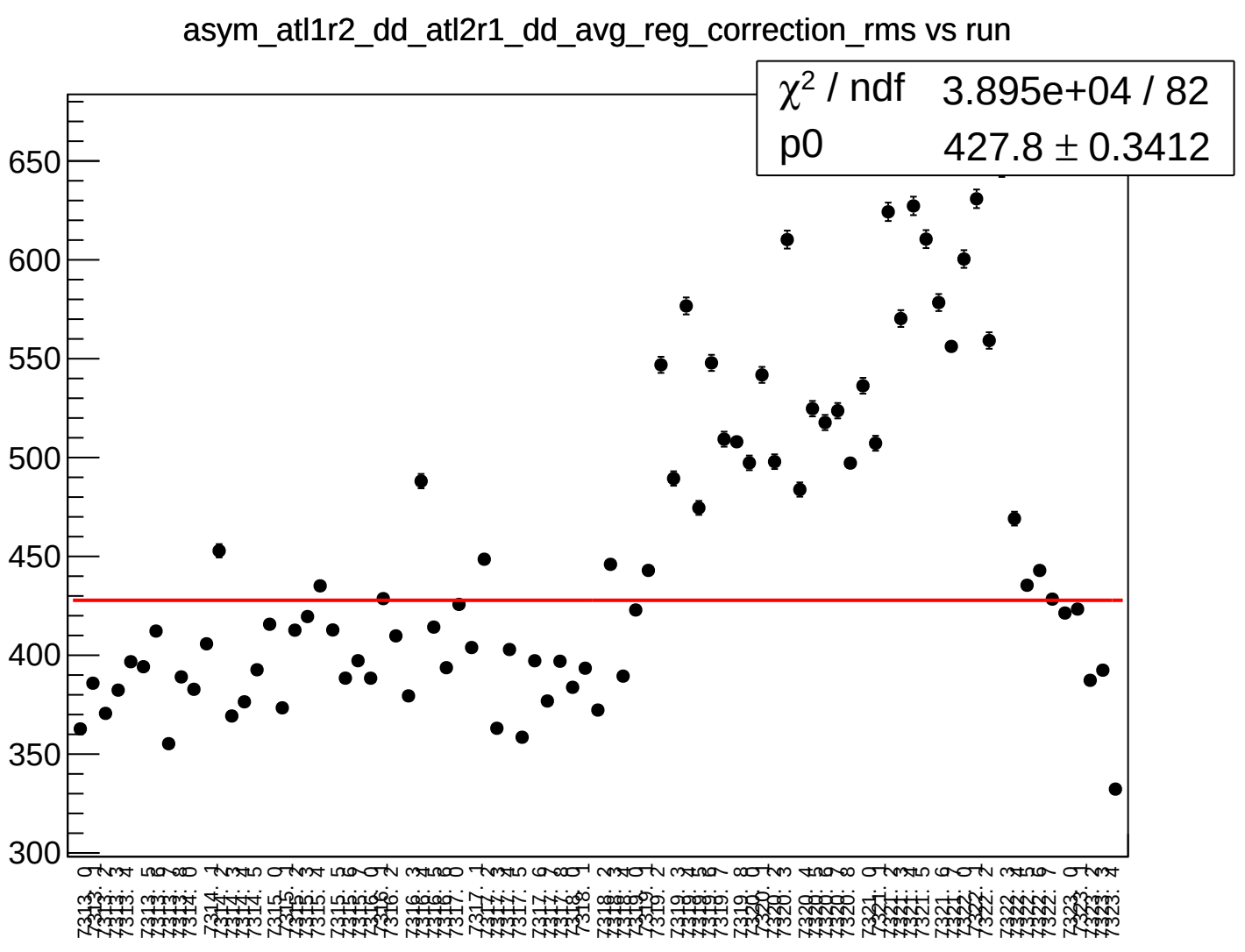

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.96 / 82
p0 777.3 ± 1321
pull
Entries 83
Mean −290.3
Std Dev 0

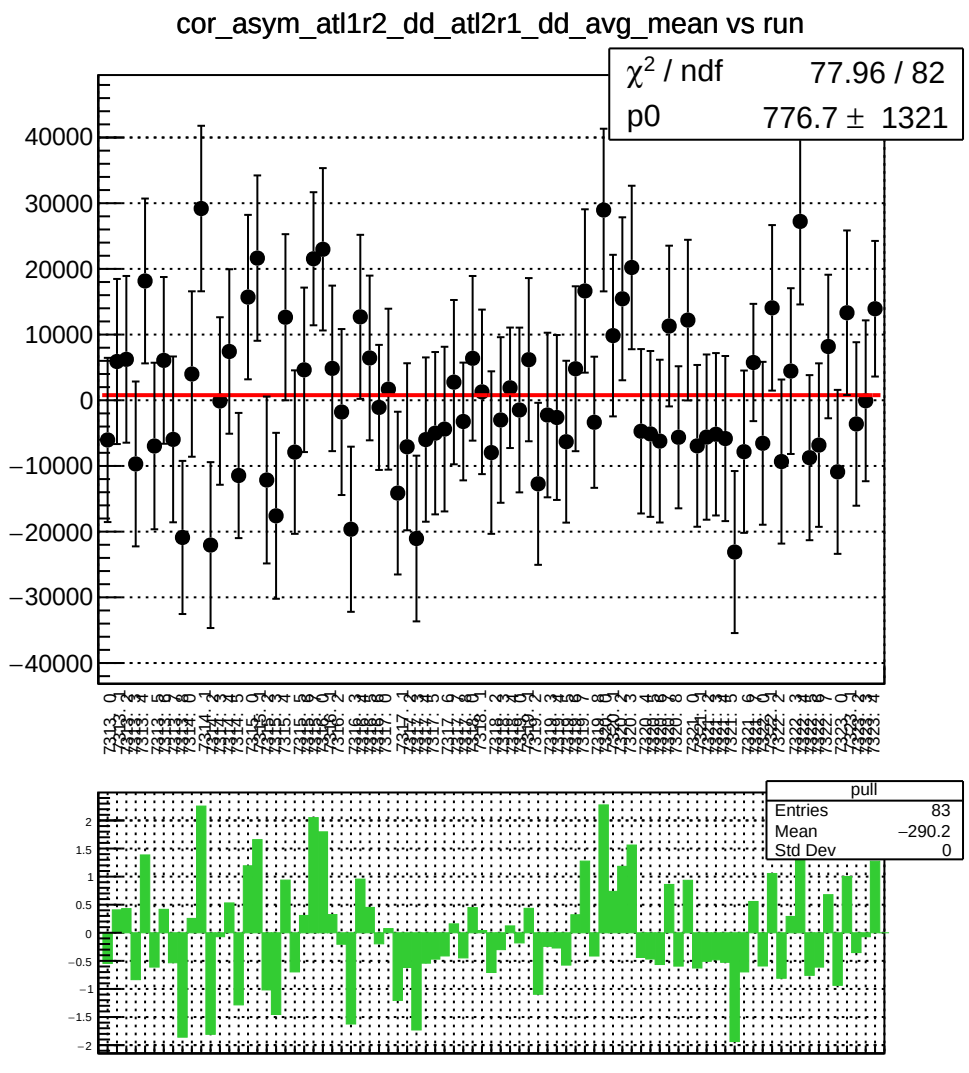

pull1D
Entries 83
Mean −0.002028
Std Dev 0.9691

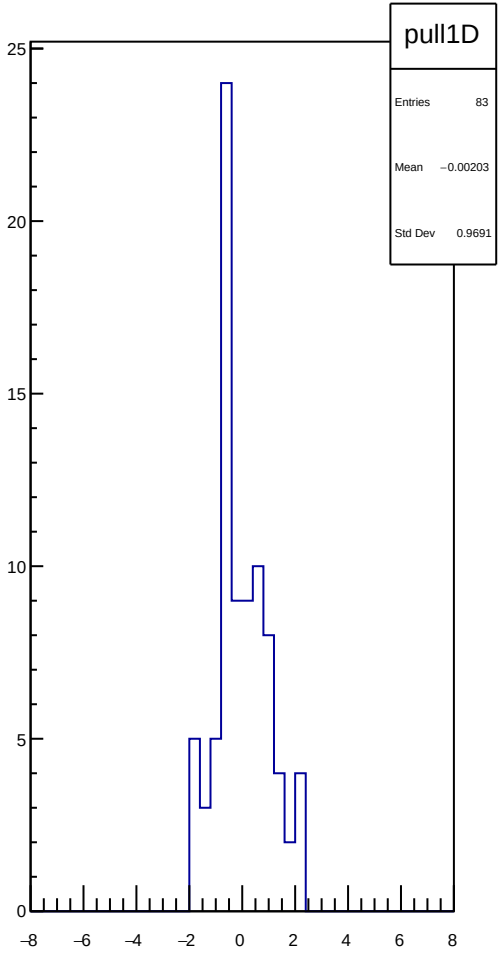

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 149.3 / 82
p0 1186 ± 0.9341
1220
1210
1200
1190
1180
1170
1160
1150

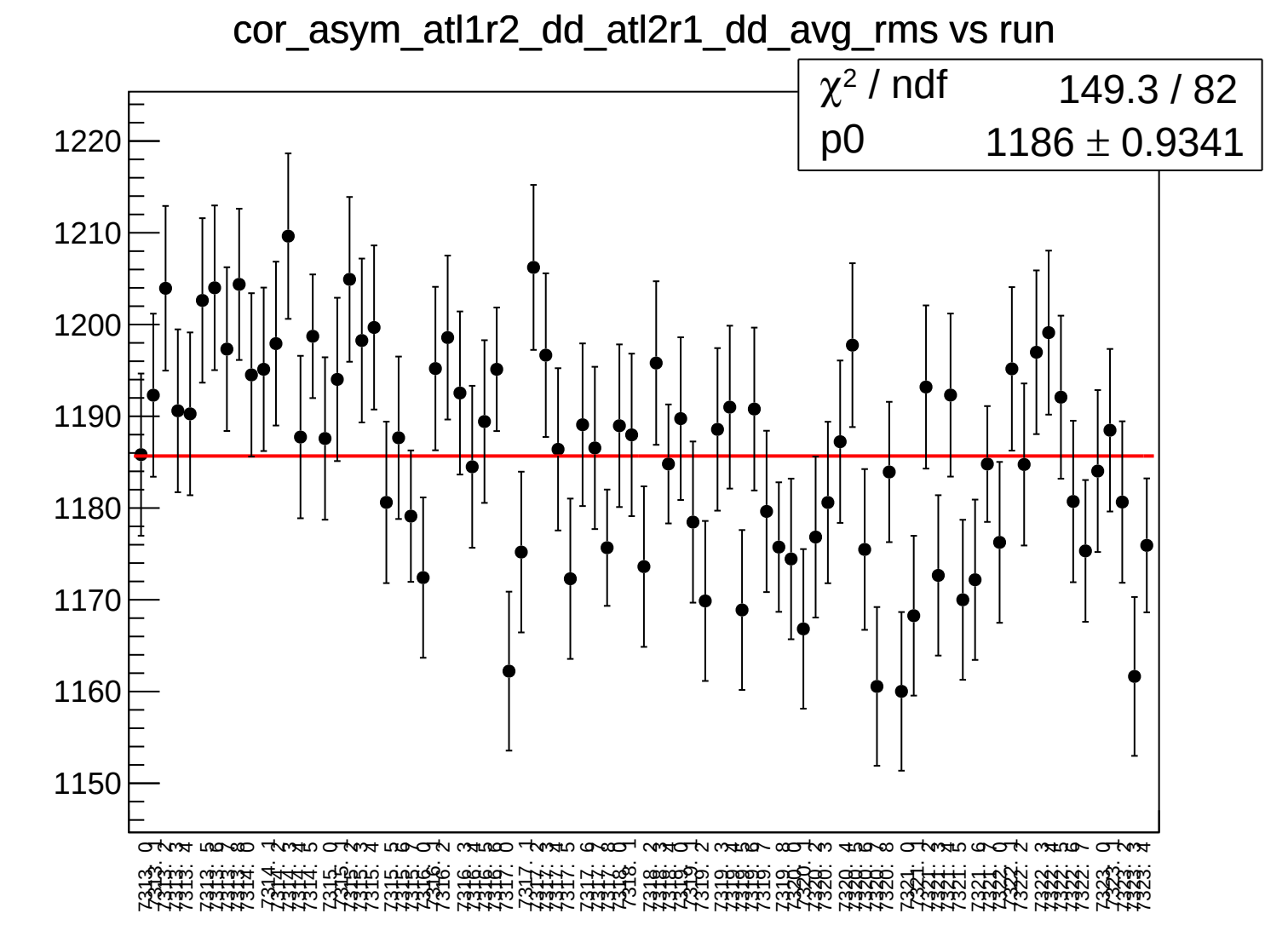

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 87.71 / 82
p0 −547.7 ± 482.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 385.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

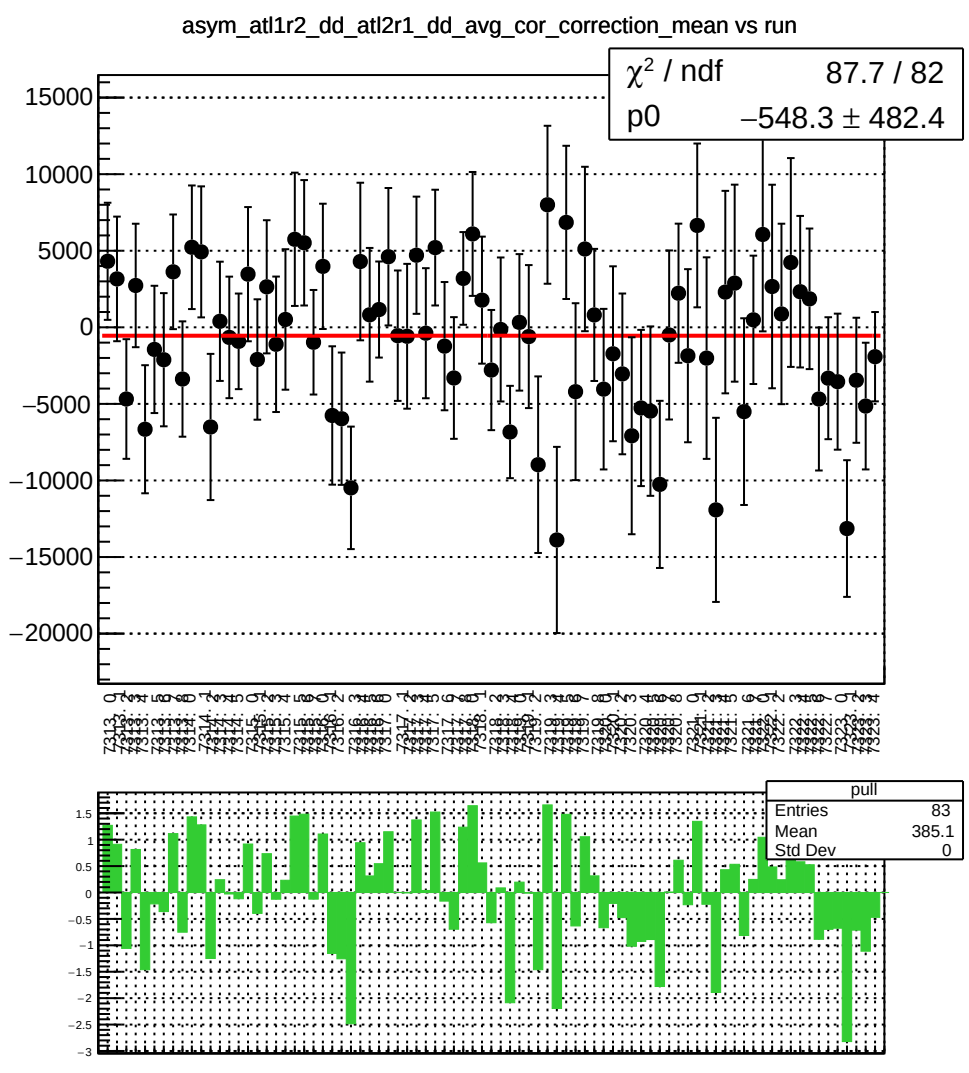

pull1D
Entries 83
Mean −0.01492
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

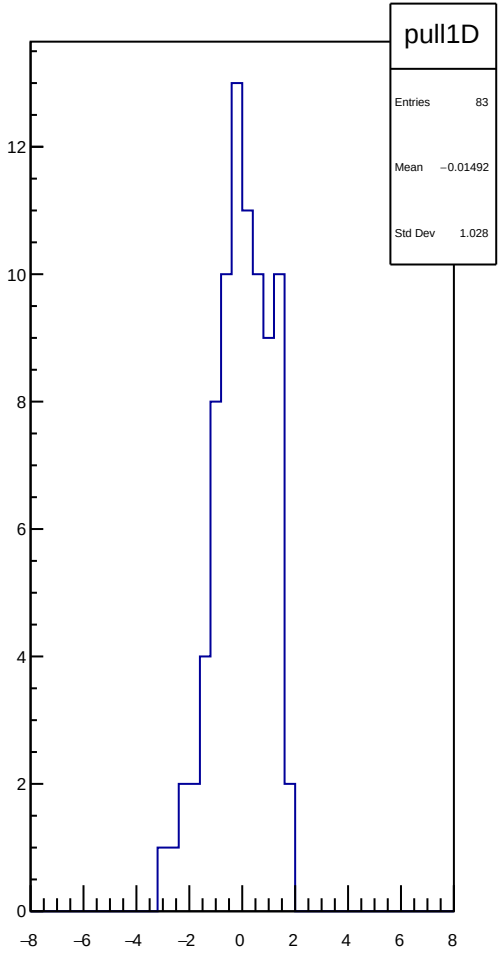

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3.895e+04 / 82
p0 427.8 ± 0.3412
650
600
550
500
450
400
350
300

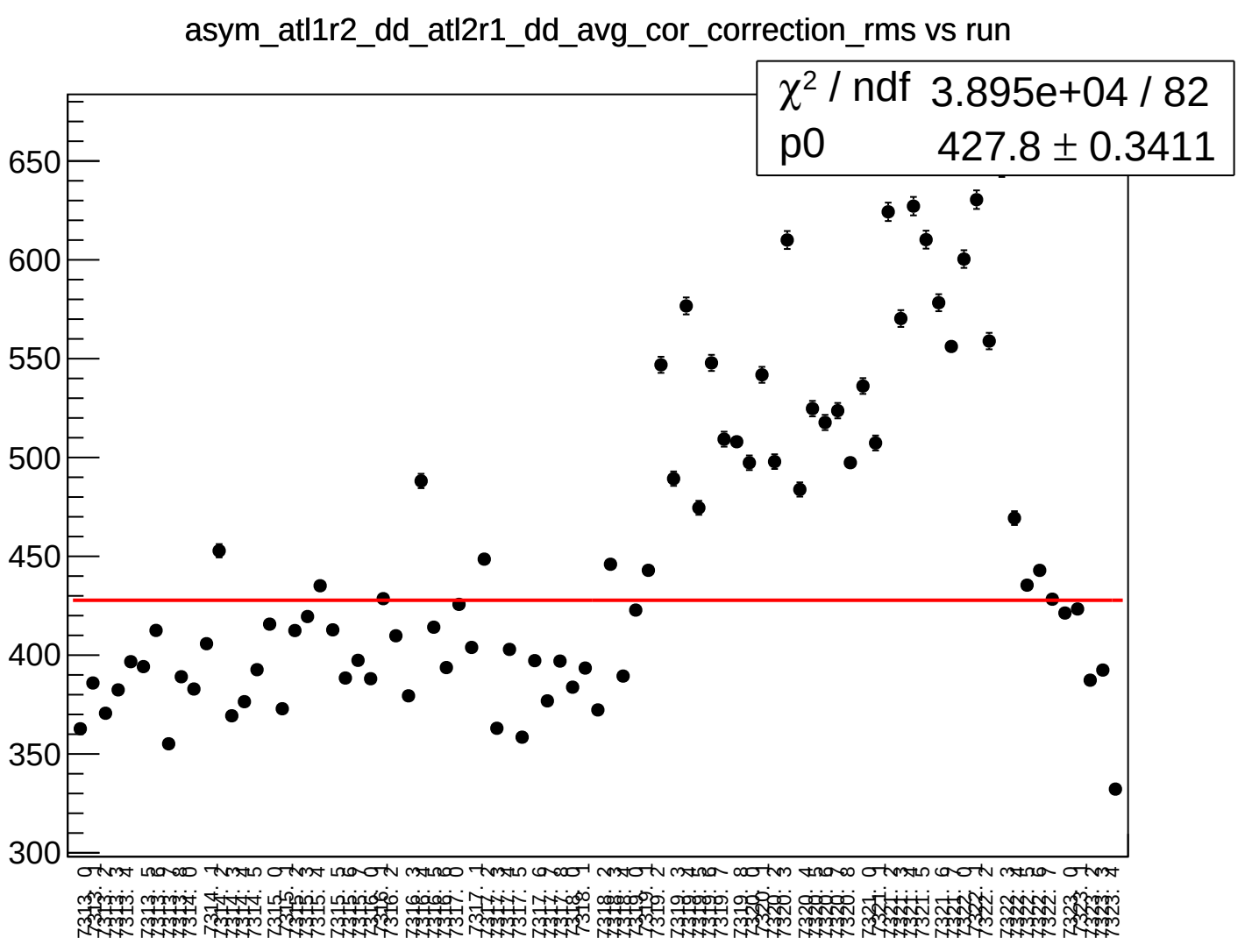

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.96 / 82
p0 776.7 ± 1321
pull
Entries 83
Mean −290.2
Std Dev 0

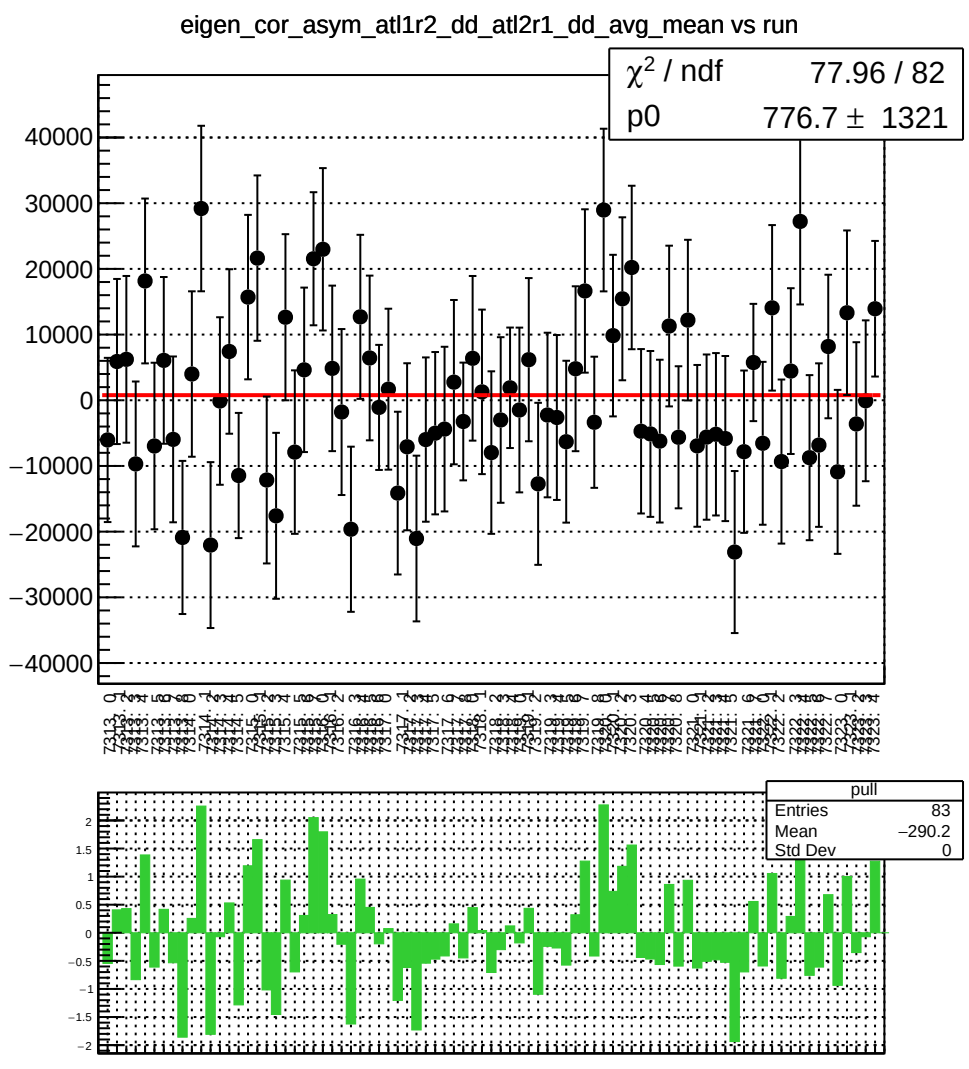

pull1D
Entries 83
Mean −0.00203
Std Dev 0.9691

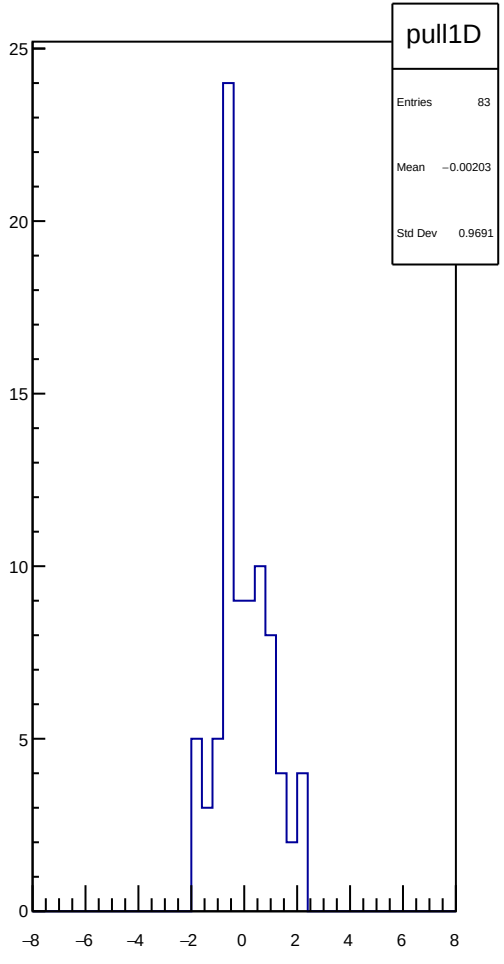

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 149.3 / 82
p0 1186 ± 0.9341
1220
1210
1200
1190
1180
1170
1160
1150

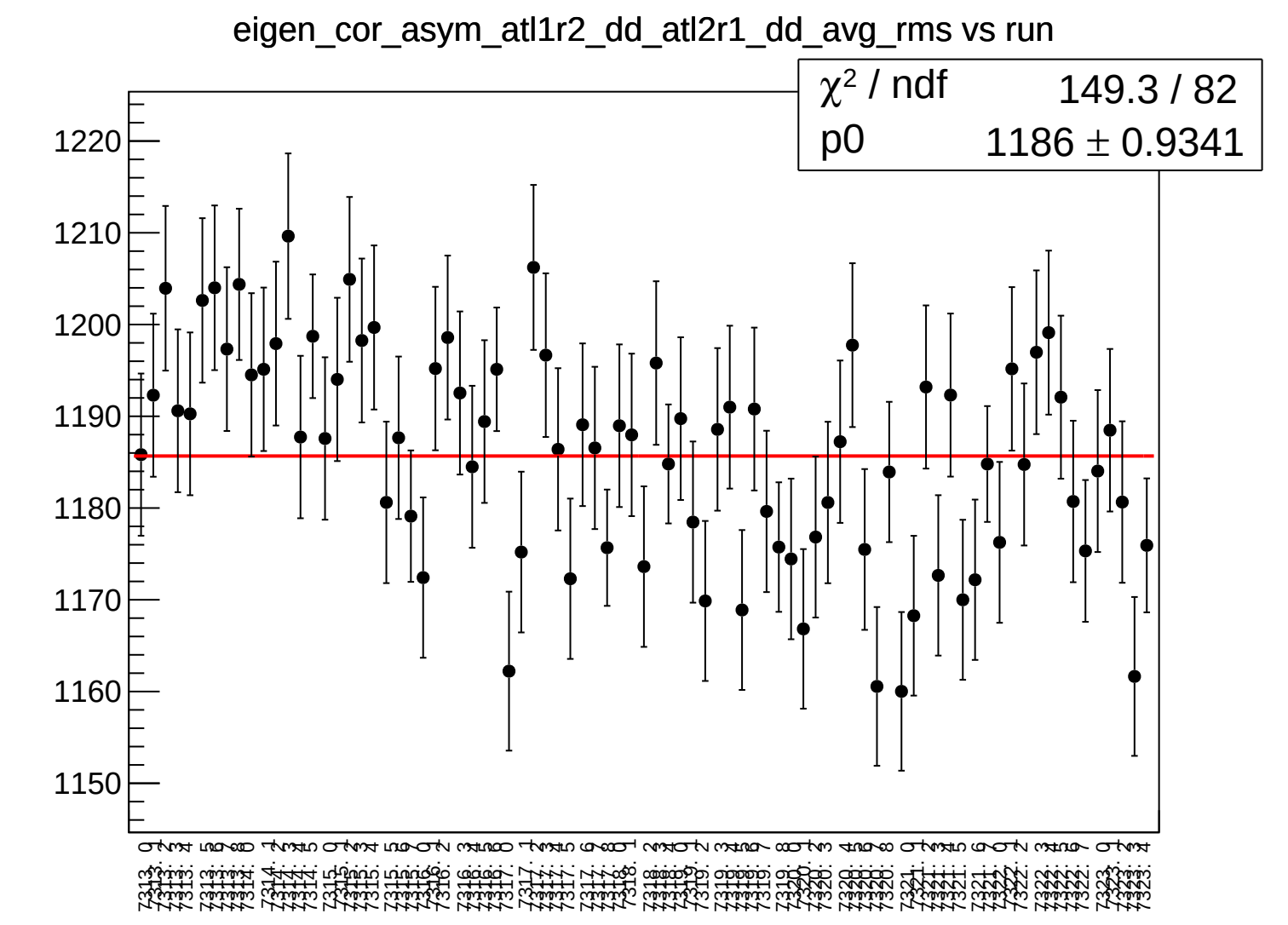

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 87.7 / 82
p0 −548.3 ± 482.4
pull
Entries 83
Mean 385.1
Std Dev 0

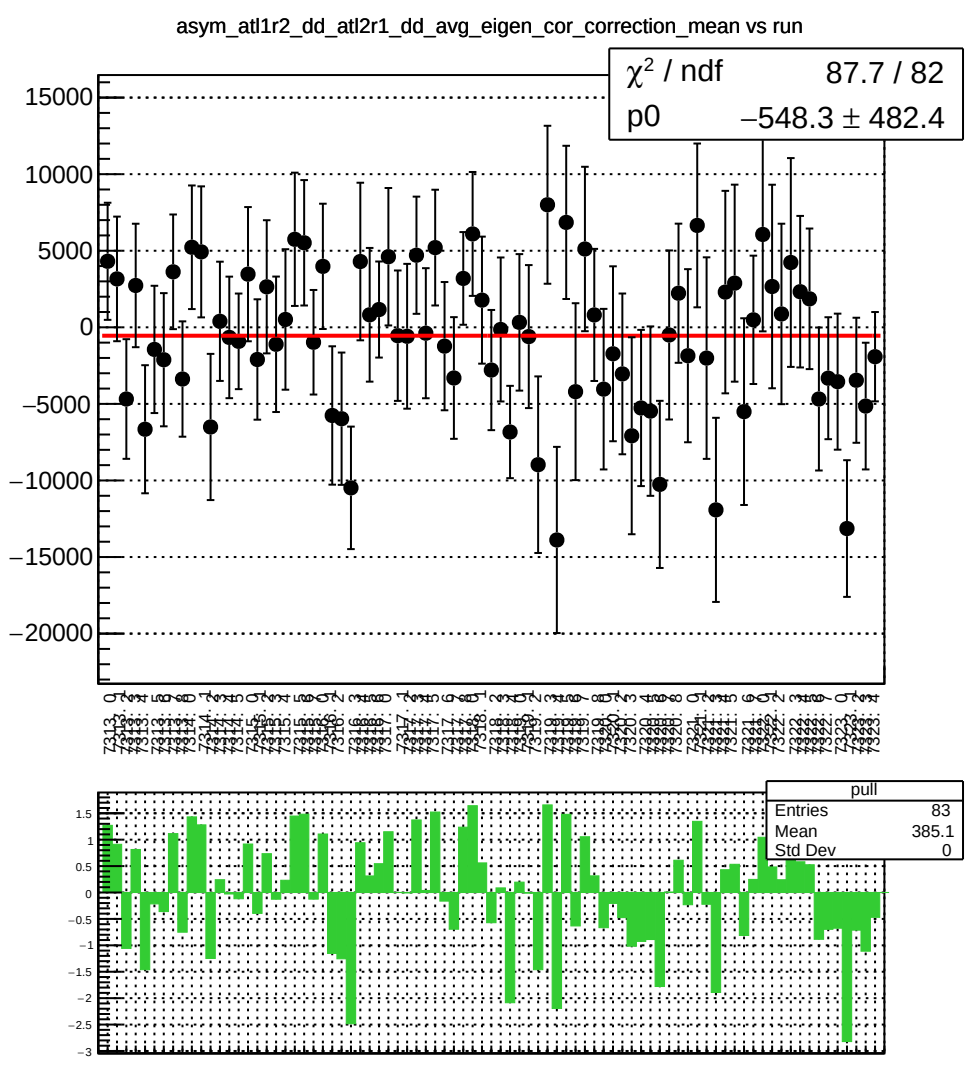

pull1D
Entries 83
Mean −0.01492
Std Dev 1.028

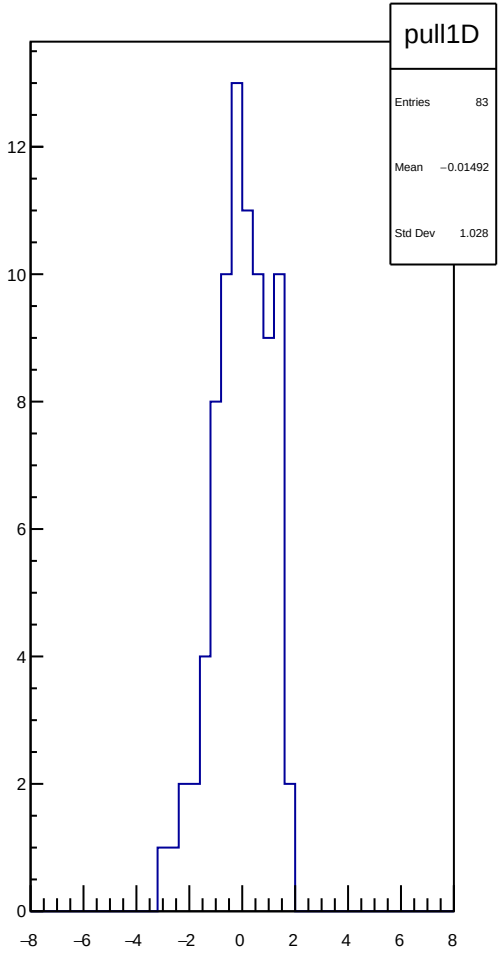

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3.895e+04 / 82
p0 427.8 ± 0.3411
650
600
550
500
450
400
350
300

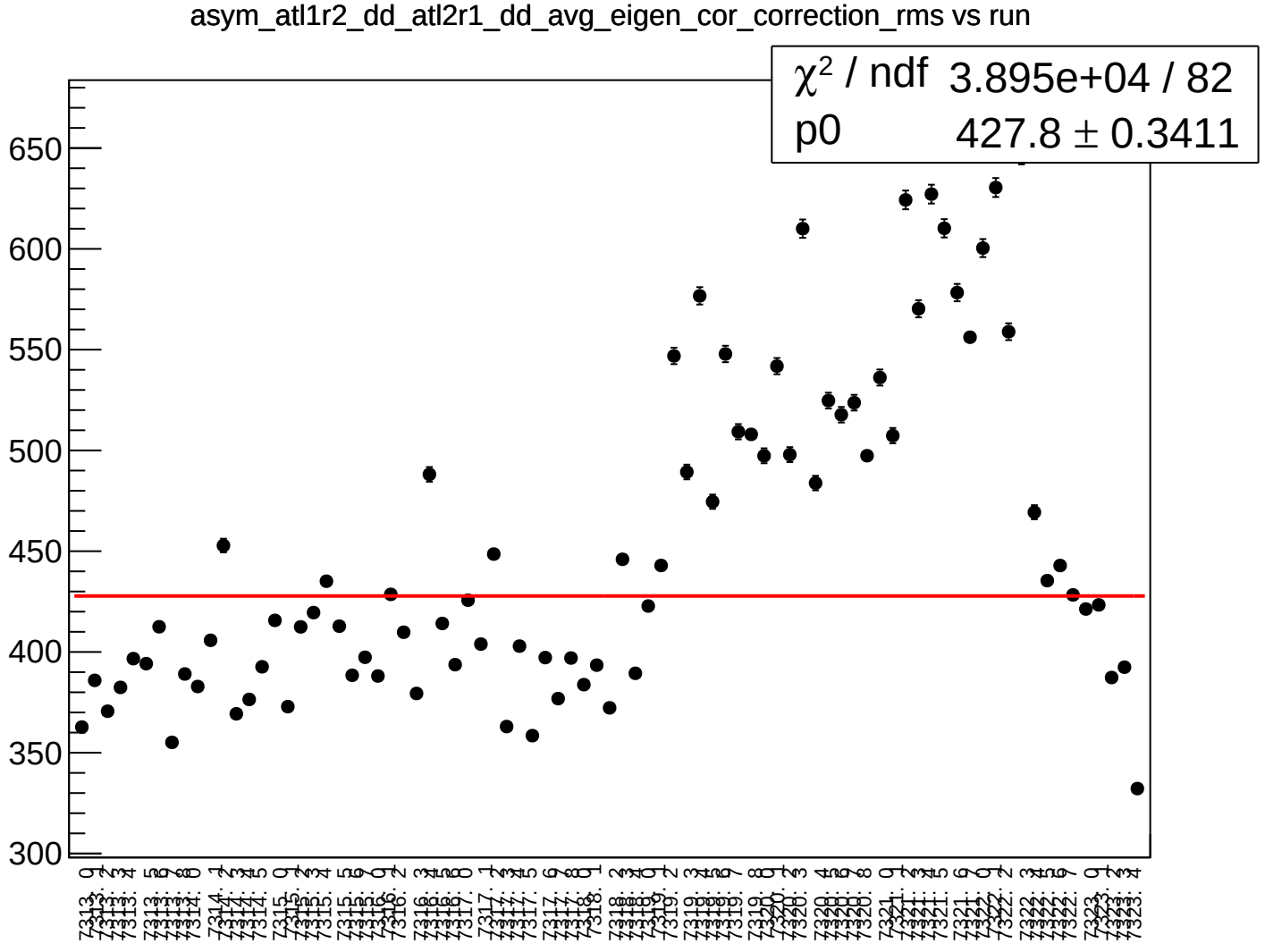

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.96 / 82
p0 776.7 ± 1321
pull
Entries 83
Mean −290.2
Std Dev 0

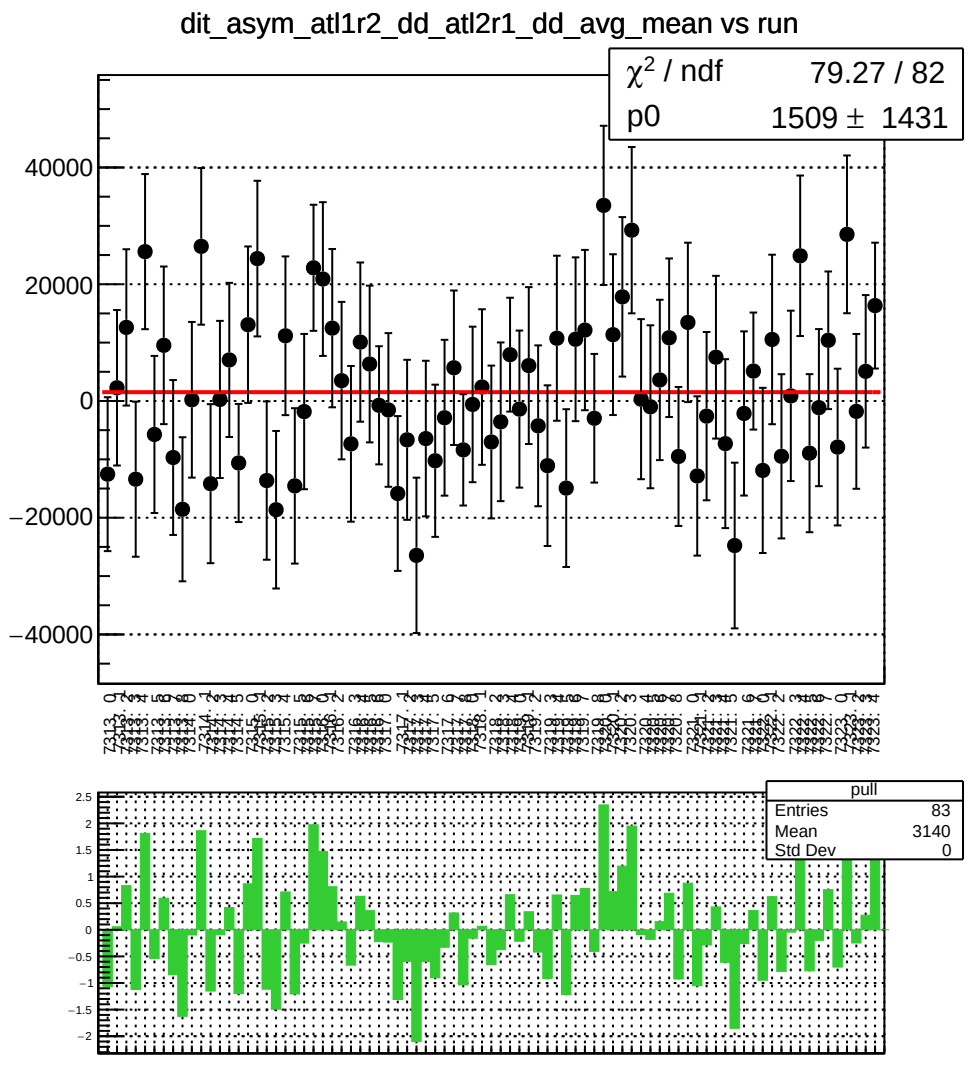

pull1D
Entries 83
Mean −0.00203
Std Dev 0.9691

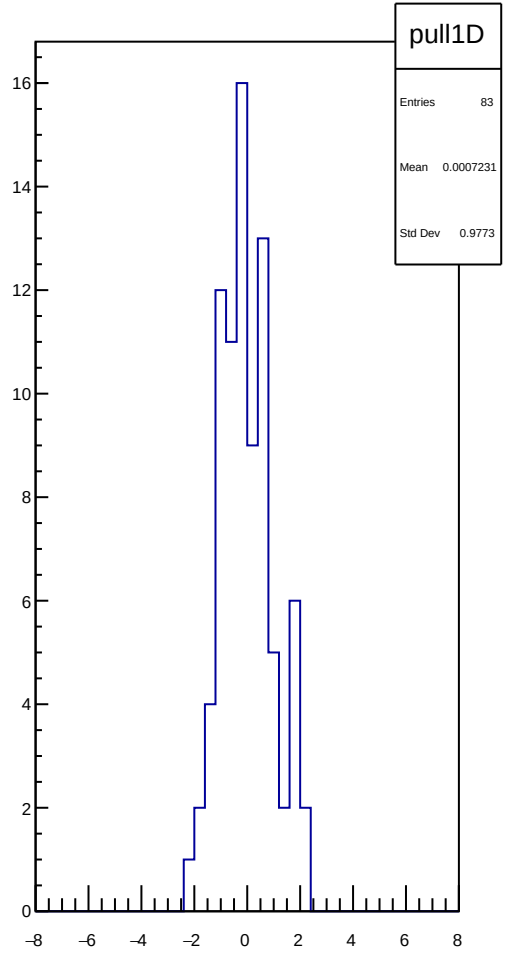

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 149.3 / 82
p0 1186 ± 0.9341
1220
1210
1200
1190
1180
1170
1160
1150

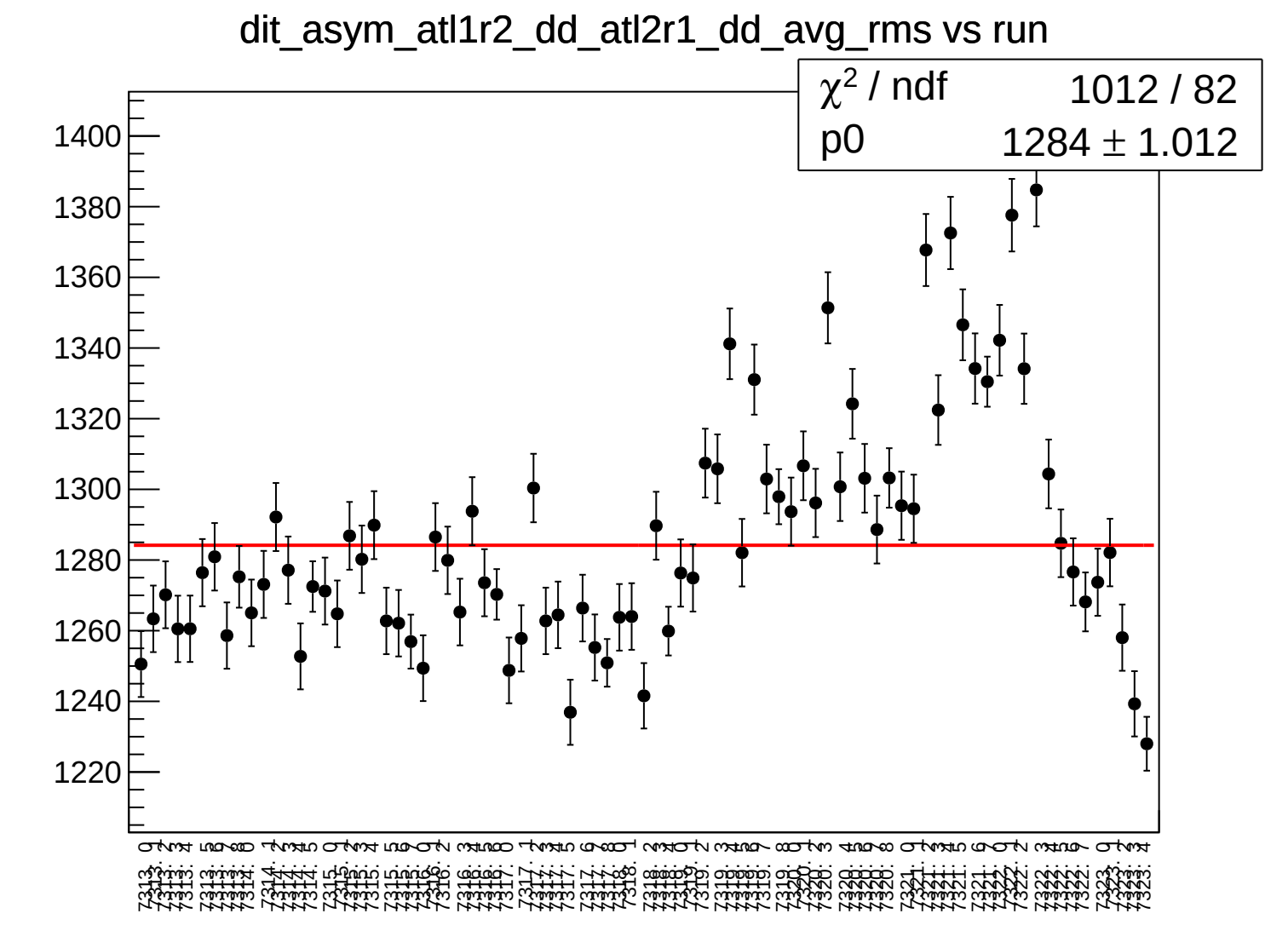

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.7 / 82
p0 −548.3 ± 482.4
pull
Entries 83
Mean 385.1
Std Dev 0

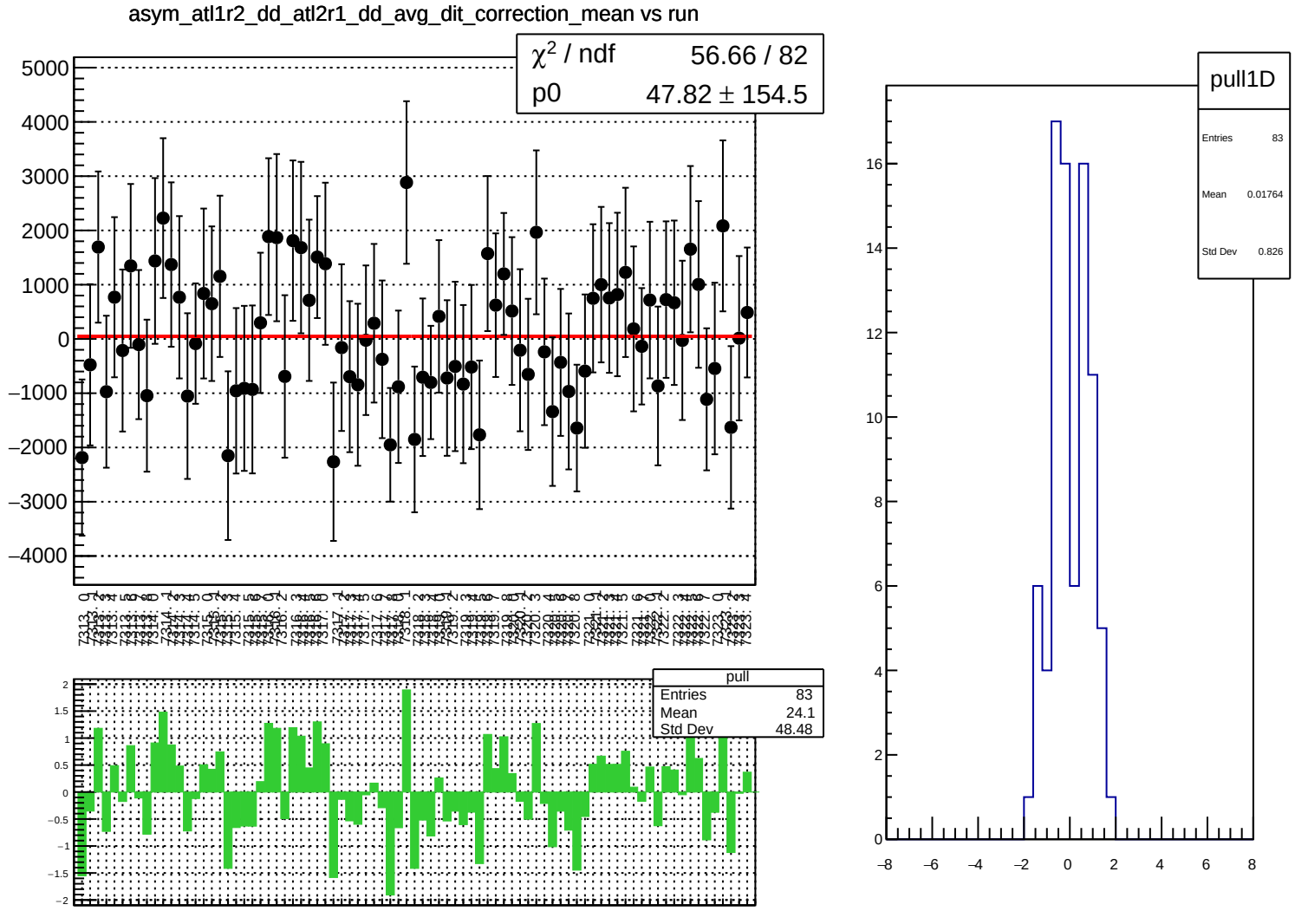

pull1D
Entries 83
Mean −0.01492
Std Dev 1.028

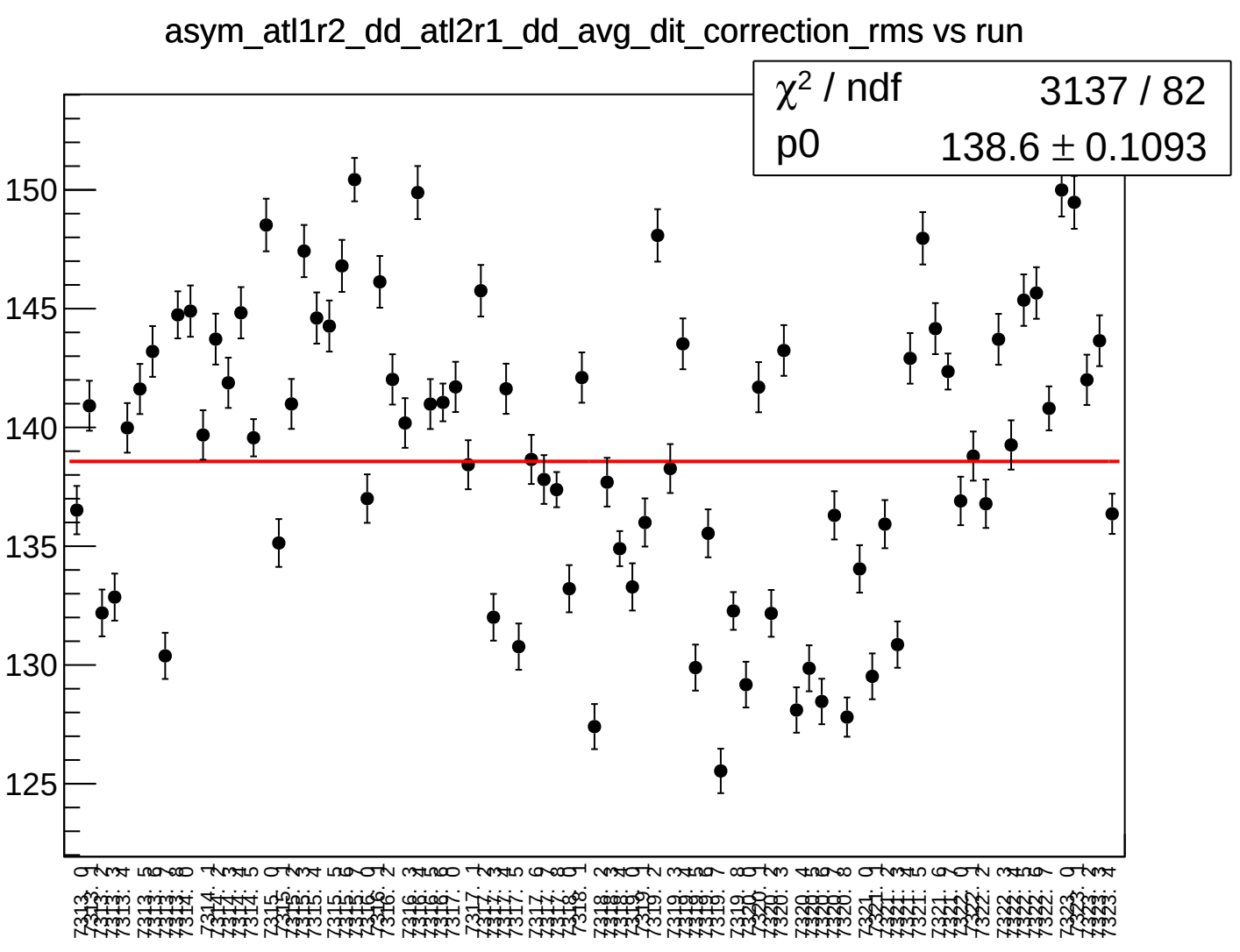

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.895e+04 / 82
p0 427.8 ± 0.3411
650
600
550
500
450
400
350
300

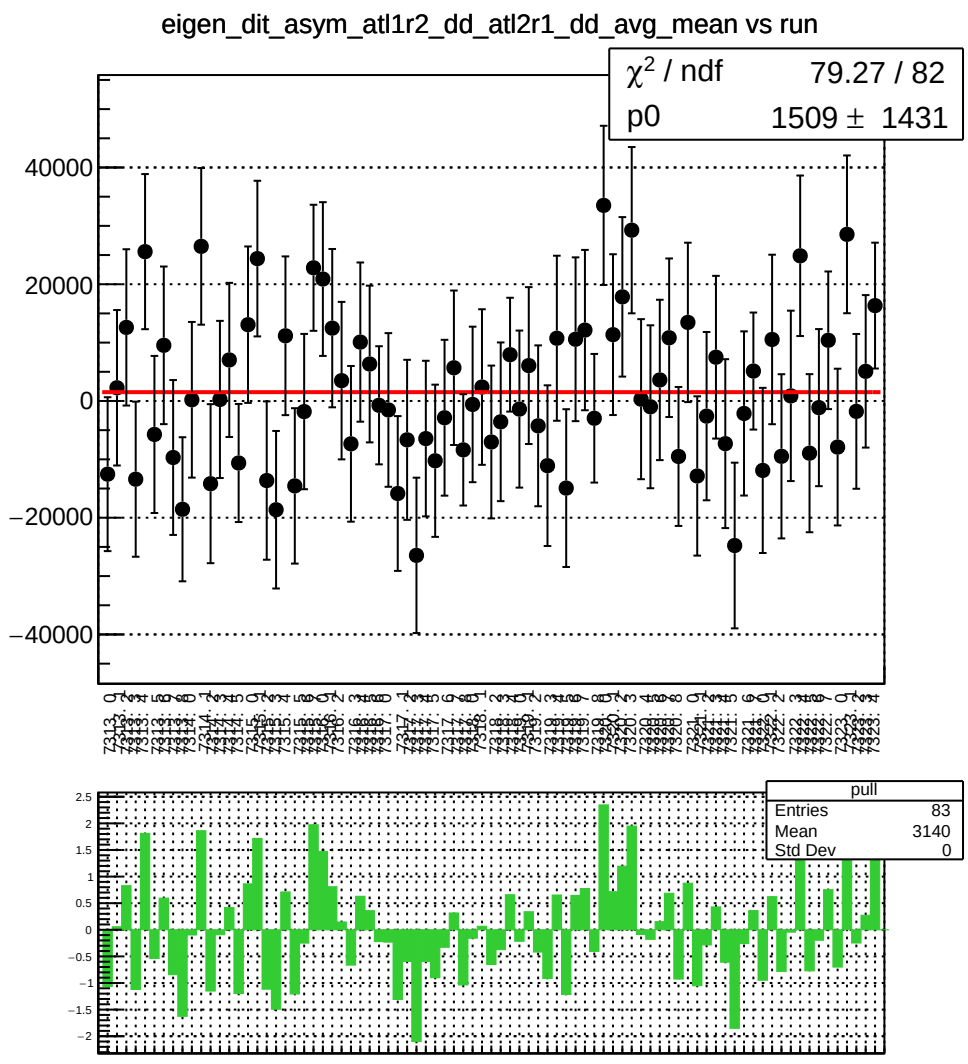

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.27 / 82
p0 1509 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 3140
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

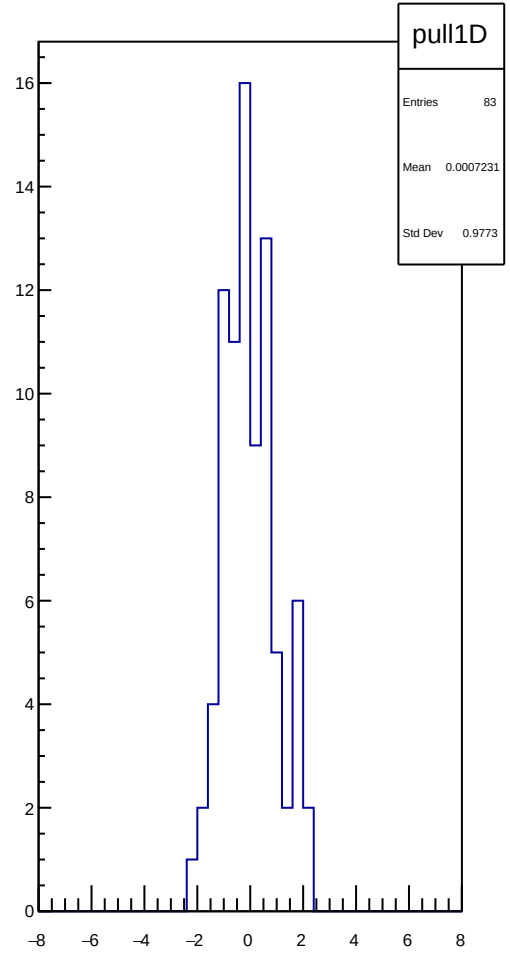

pull1D
Entries 83
Mean 0.0007231
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

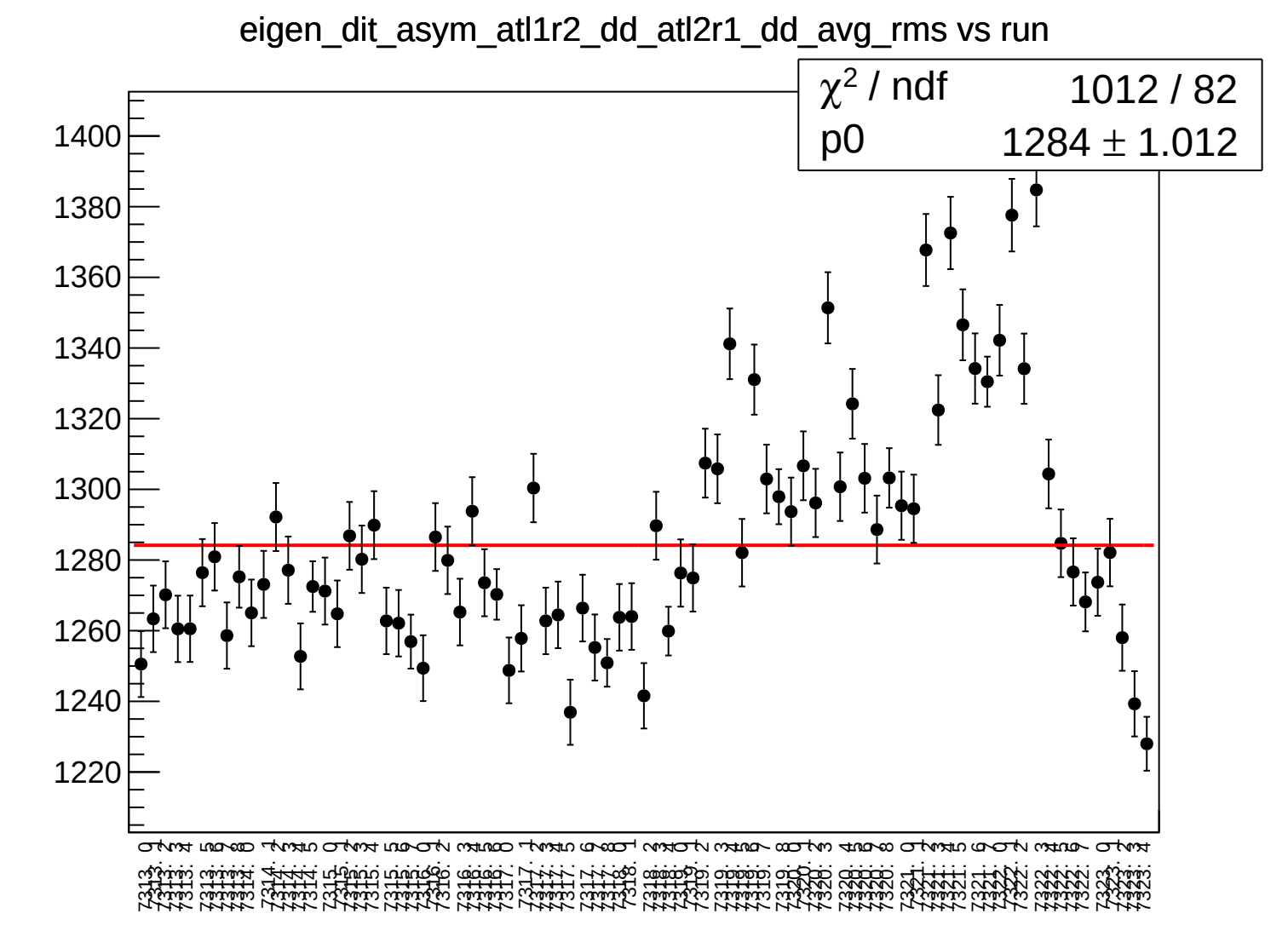

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1012 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

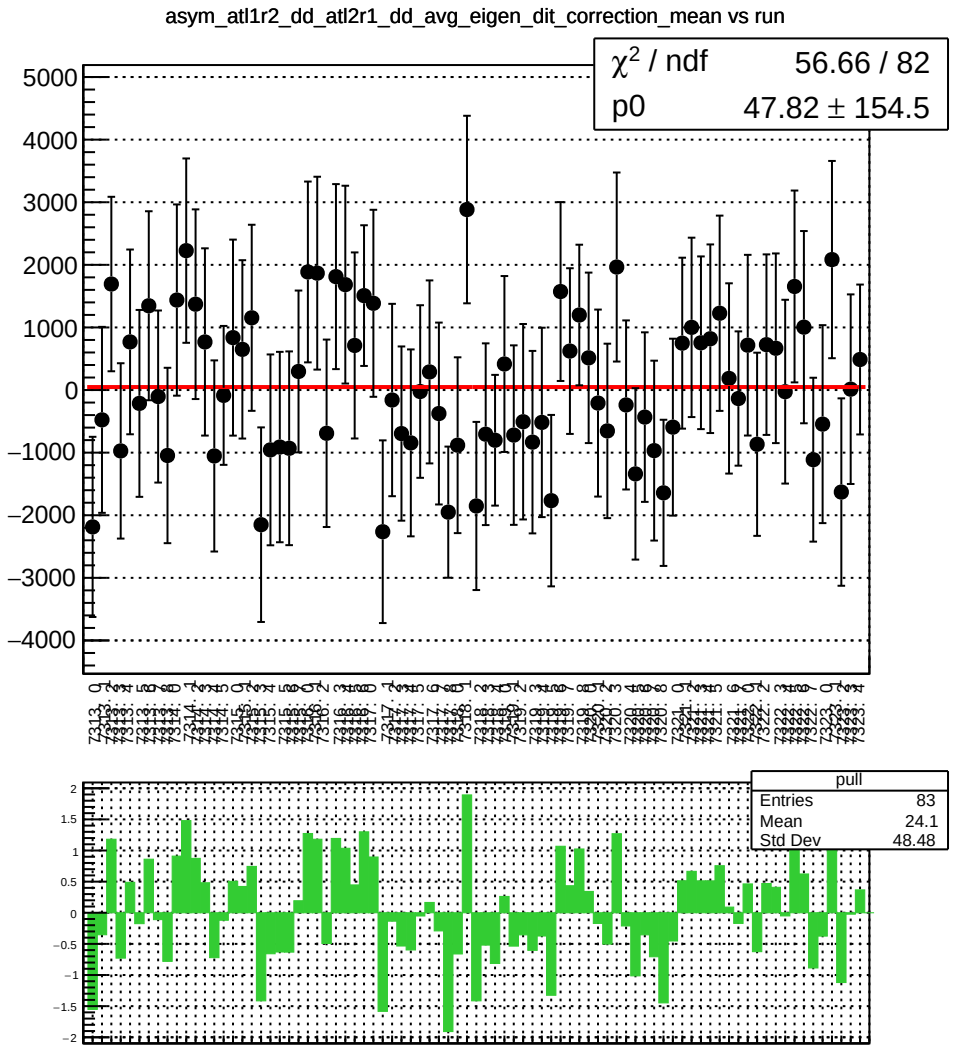

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 56.66 / 82
p0 47.82 ± 154.5
pull
Entries 83
Mean 24.1
Std Dev 48.48
pull1D
Entries 83
Mean 0.01764
Std Dev 0.826

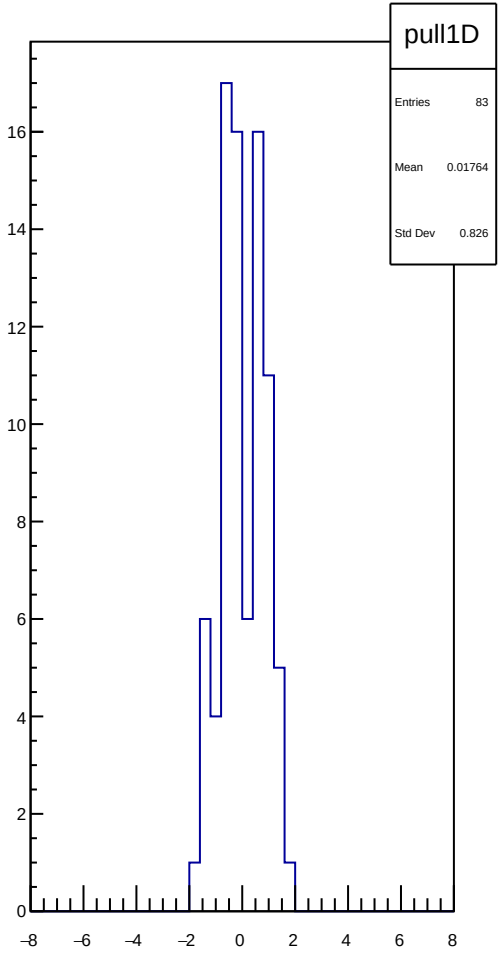

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3137 / 82
p0 138.6 ± 0.1093
150
145
140
135
130
125

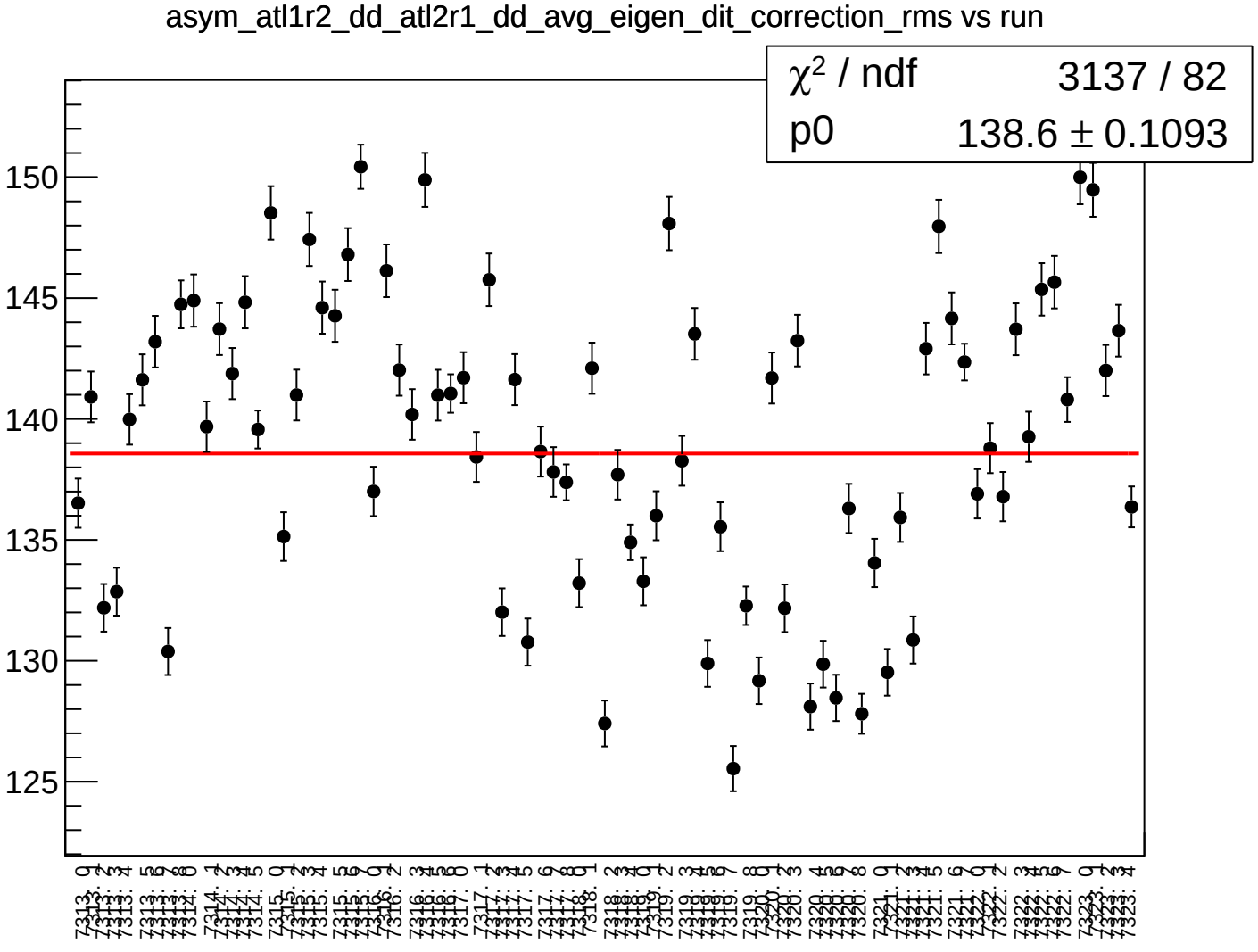

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 79.27 / 82
p0 1509 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 3140
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

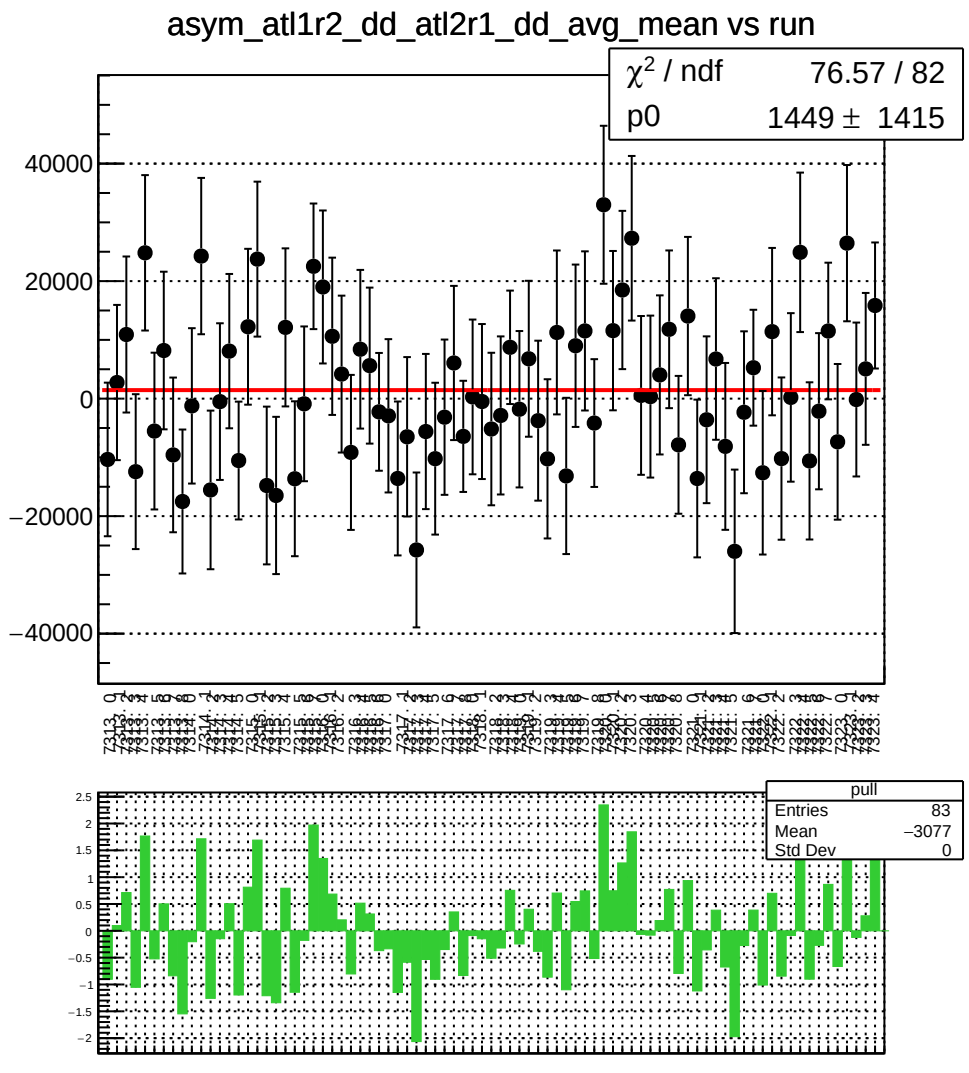

pull1D
Entries 83
Mean 0.0007231
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

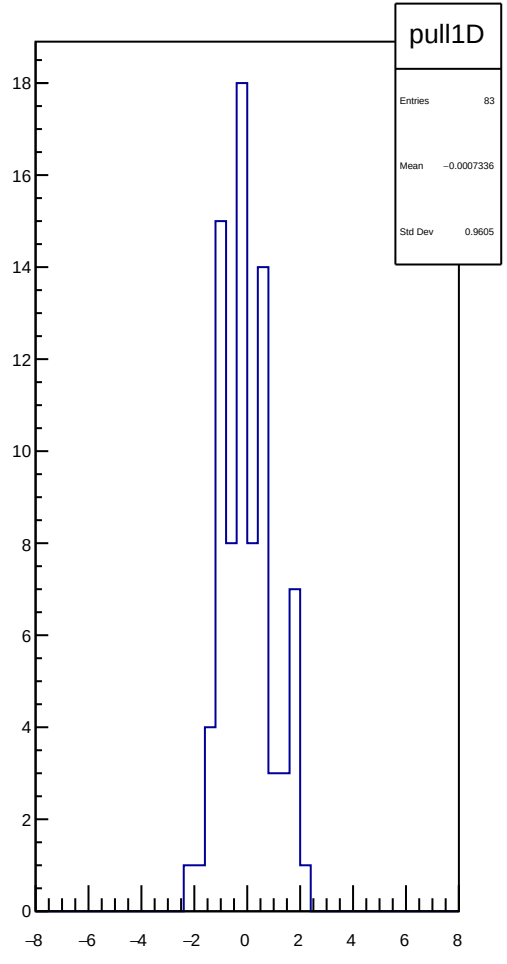

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1012 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

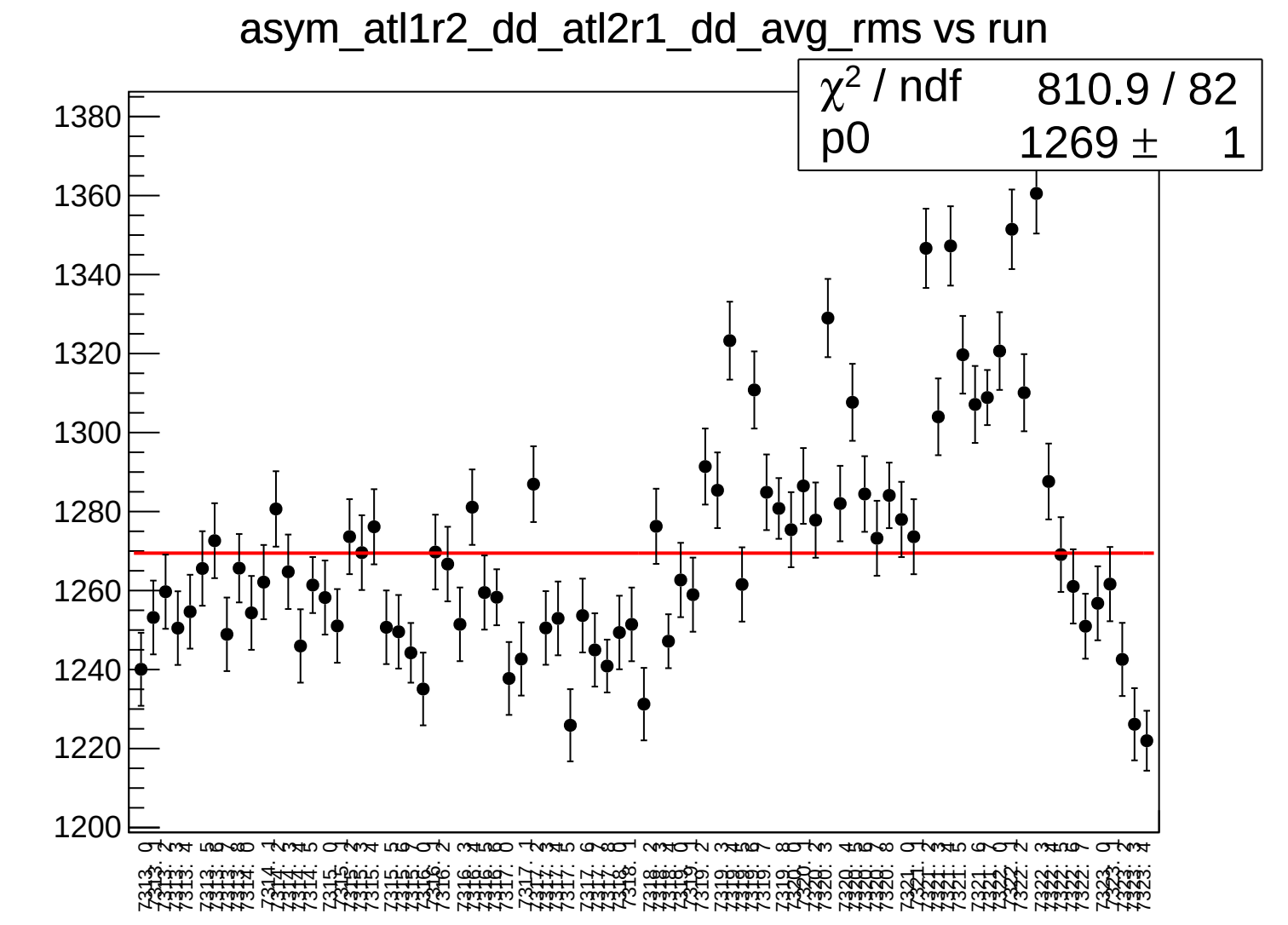

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 56.66 / 82
p0 47.82 ± 154.5
pull
Entries 83
Mean 24.1
Std Dev 48.48

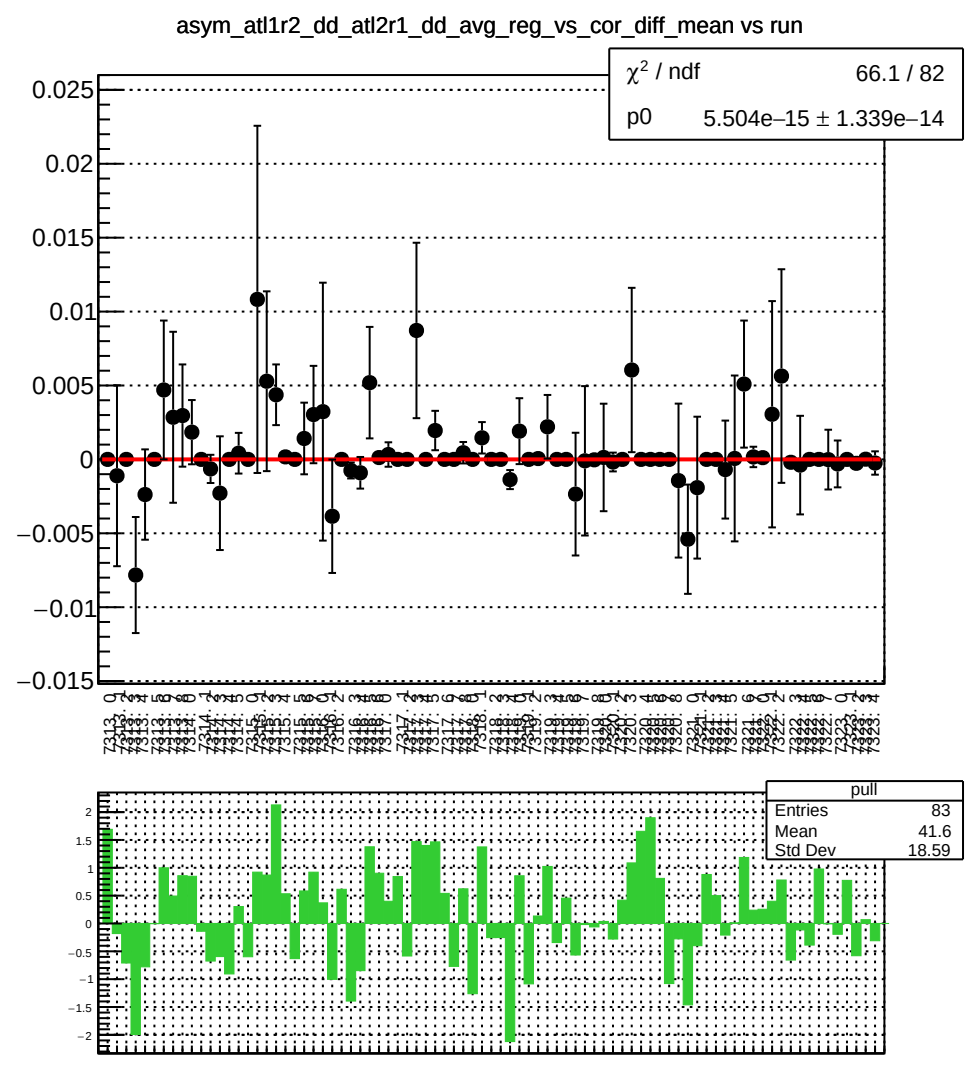

pull1D
Entries 83
Mean 0.01764
Std Dev 0.826

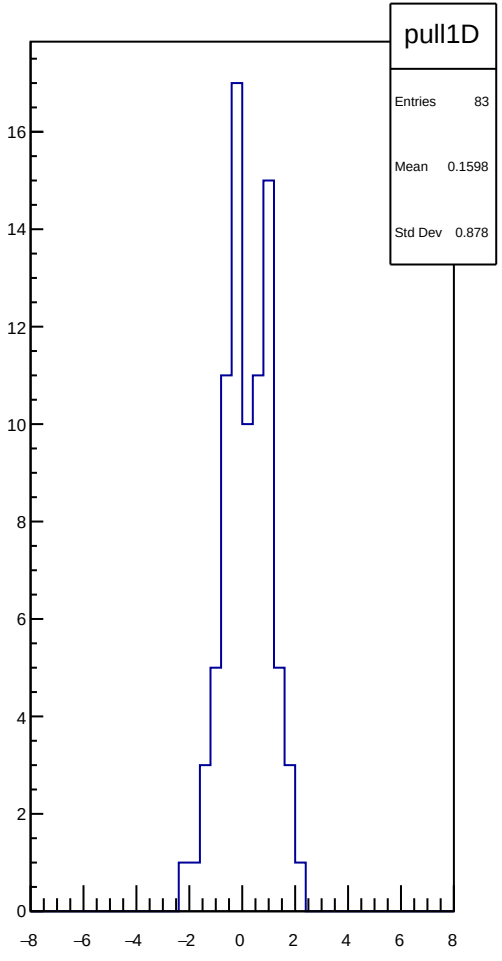

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3137 / 82
p0 138.6 ± 0.1093
150
145
140
135
130
125

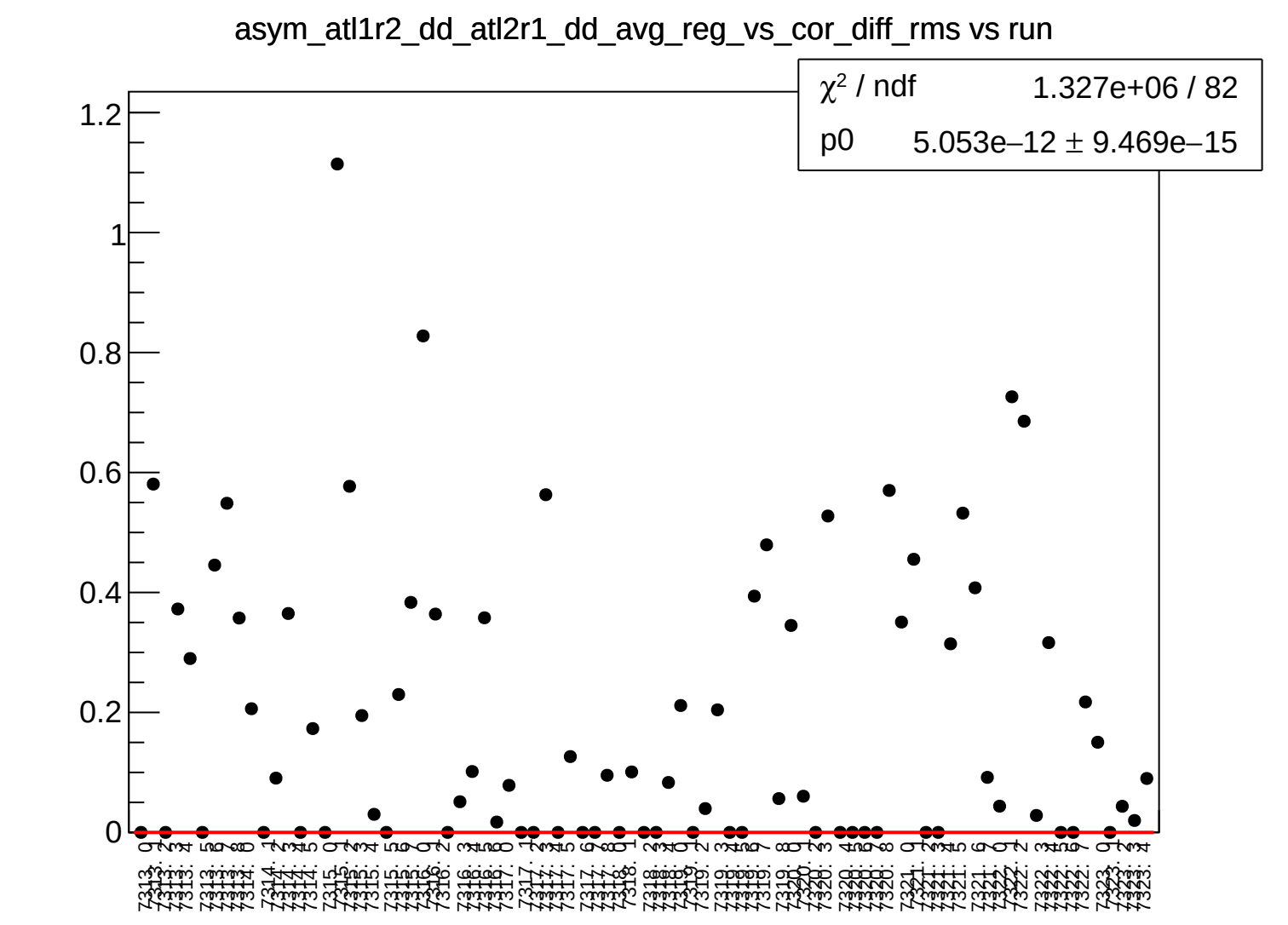

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.57 / 82
p0 1449 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −3077
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

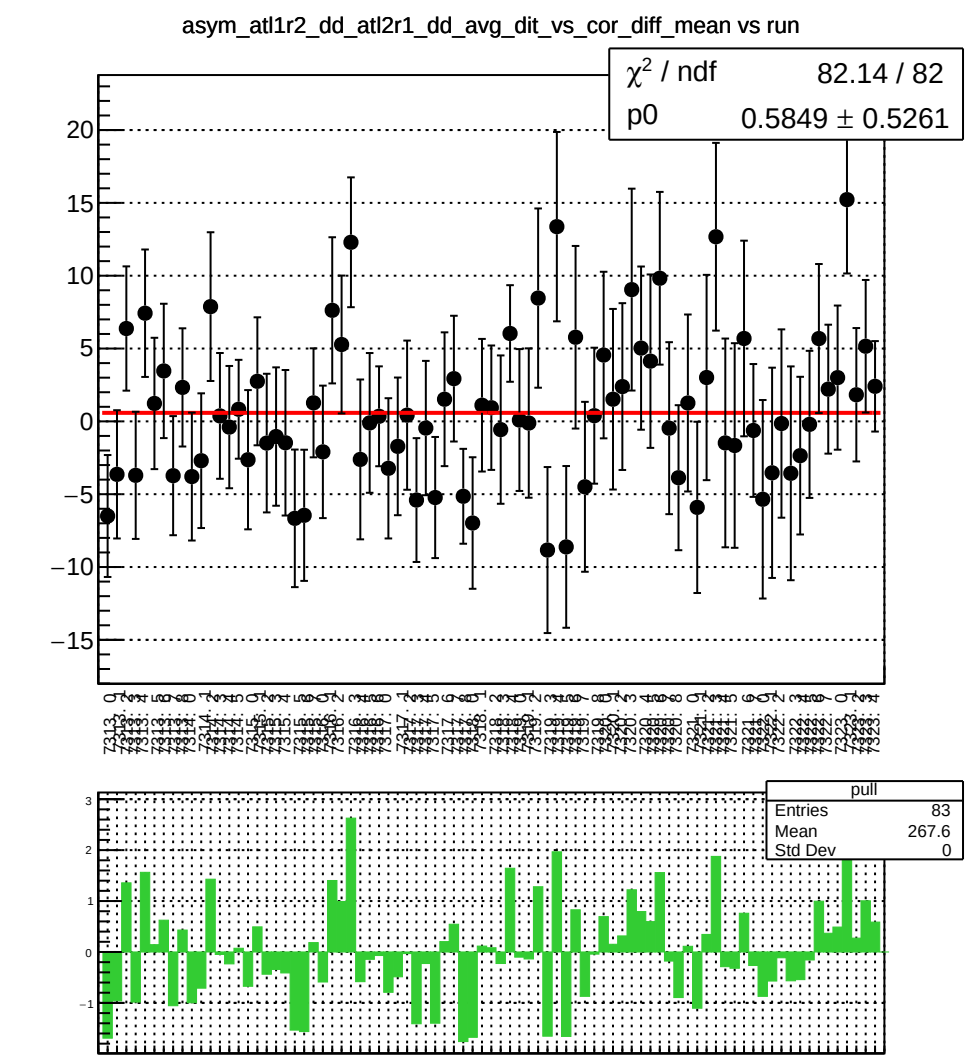

pull1D
Entries 83
Mean −0.0007336
Std Dev 0.9605
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

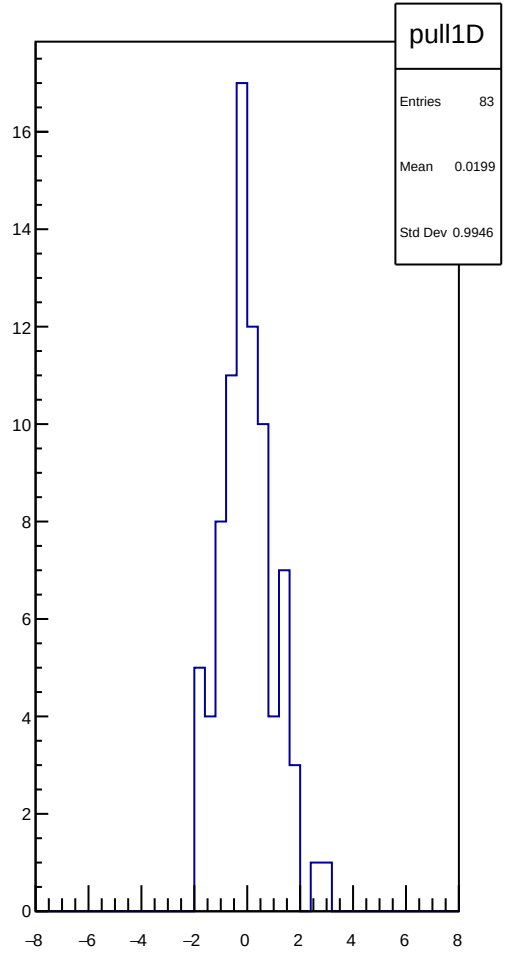

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 810.9 / 82
p0 1269 ± 1
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

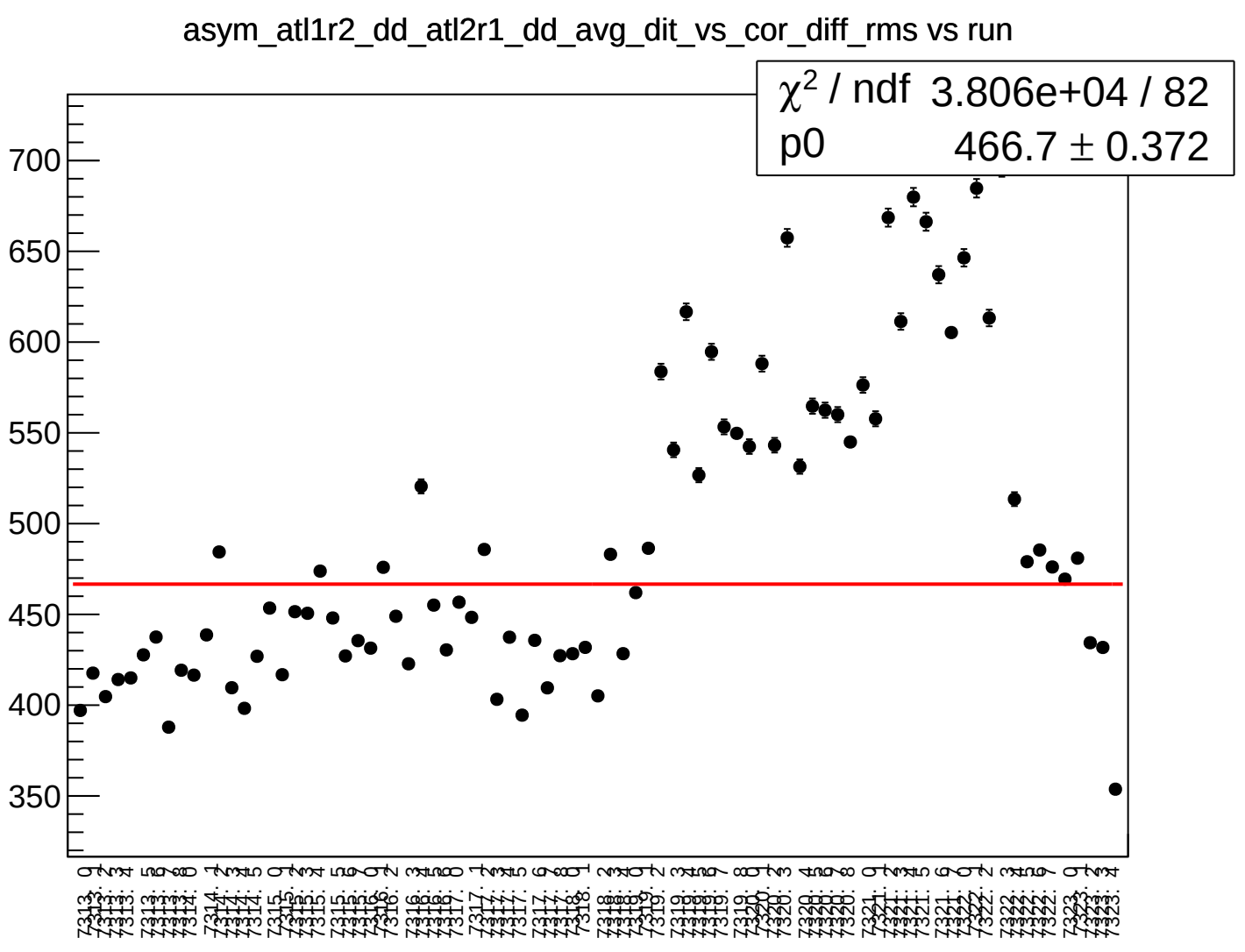

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.1 / 82
p0 5.504e−15 ± 1.339e−14
pull
Entries 83
Mean 41.6
Std Dev 18.59

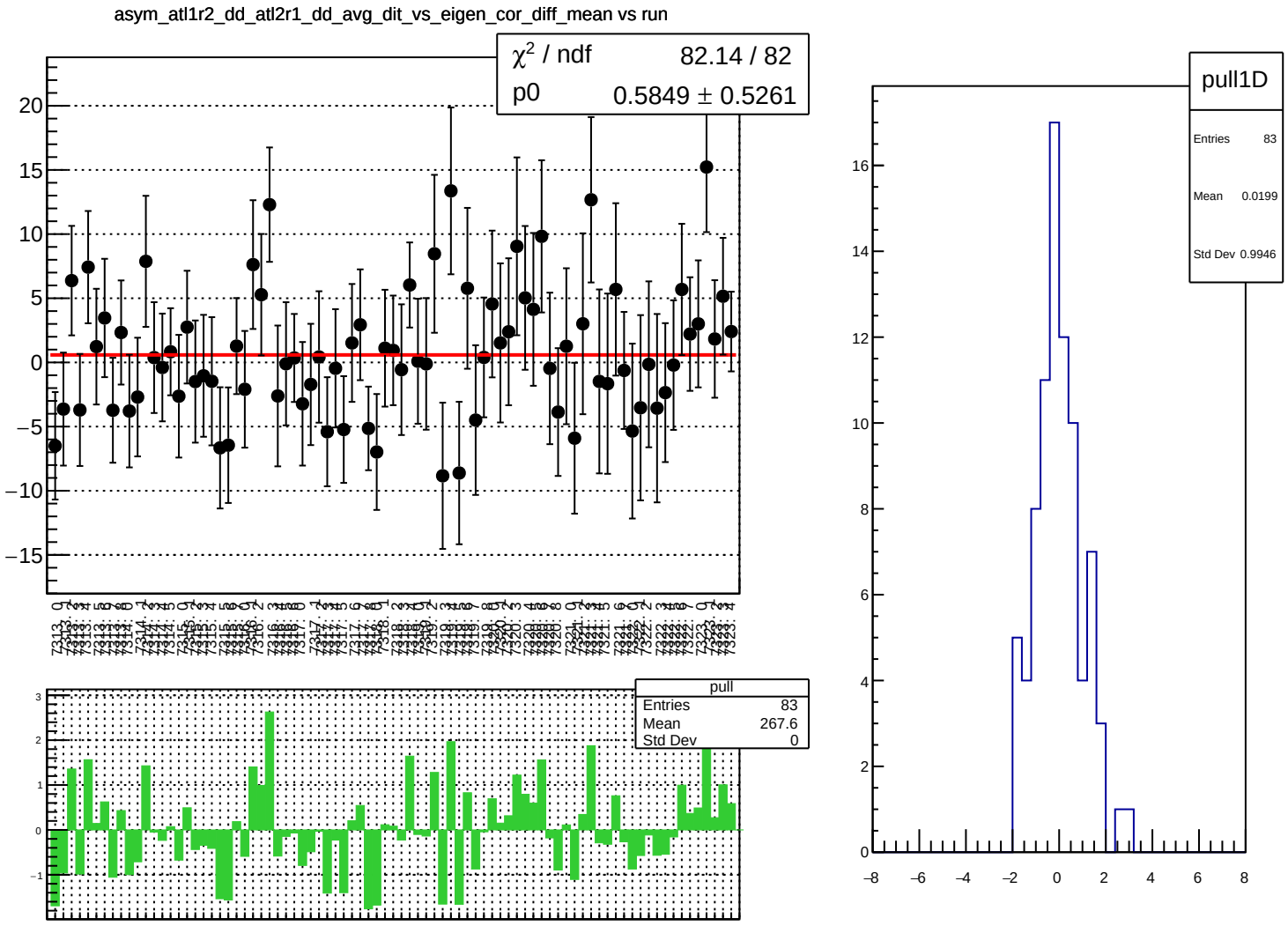

pull1D
Entries 83
Mean 0.1598
Std Dev 0.878

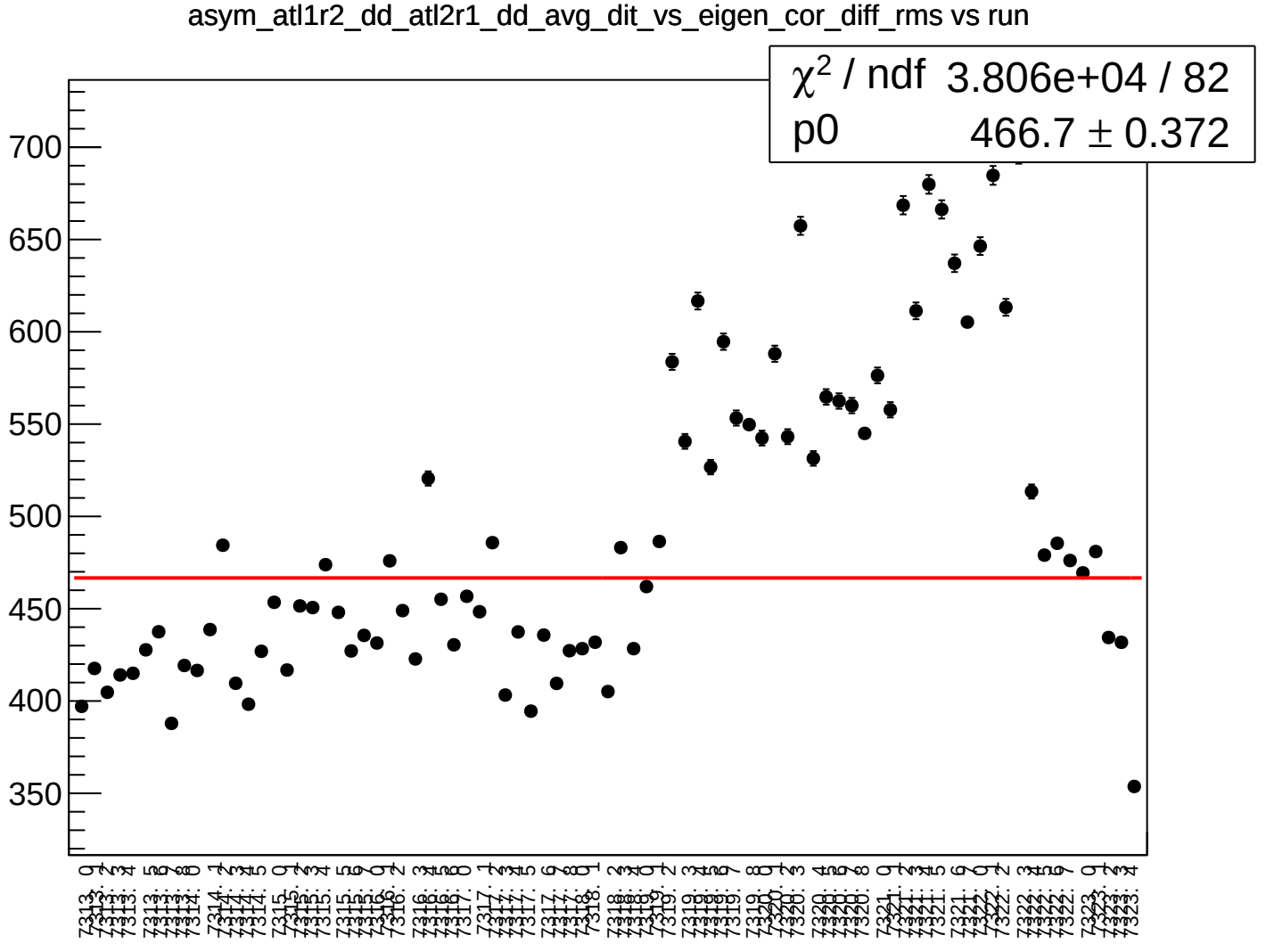

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.327e+06 / 82
p0 5.053e−12 ± 9.469e−15
1.2
1
0.8
0.6
0.4
0.2
0

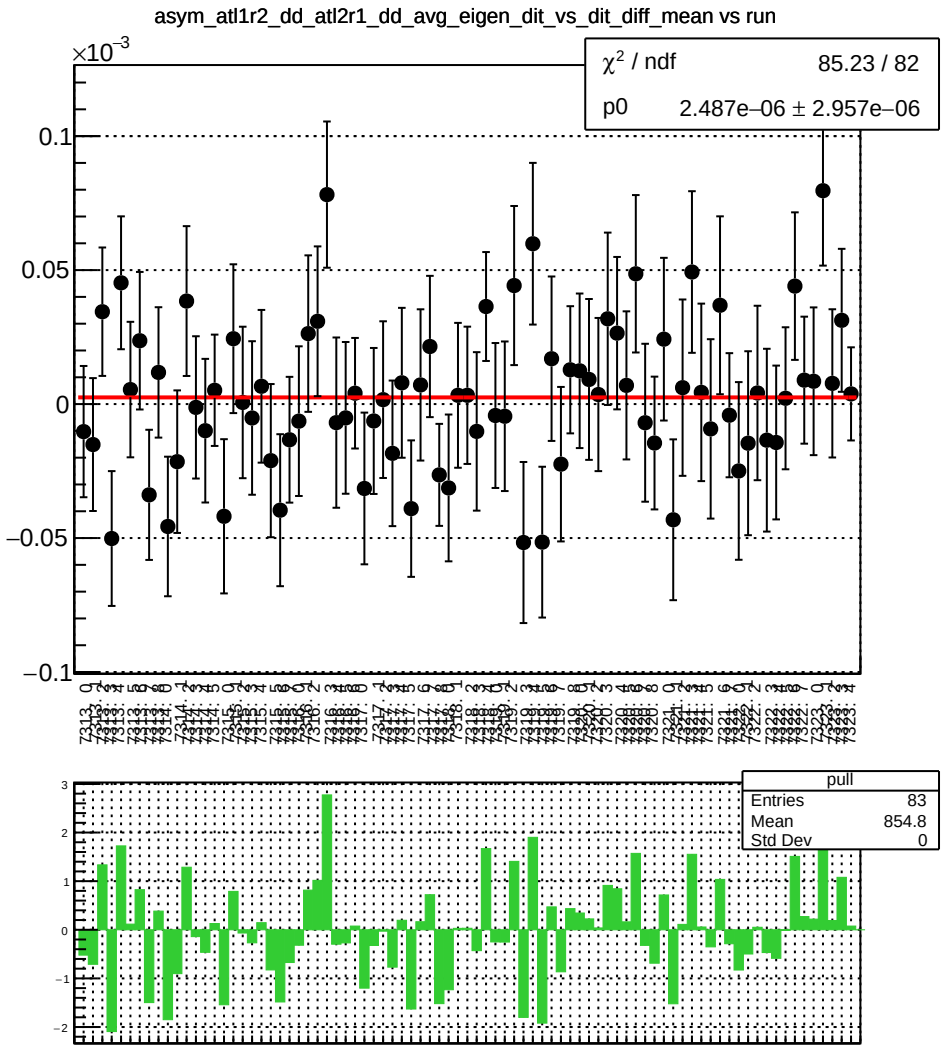

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0

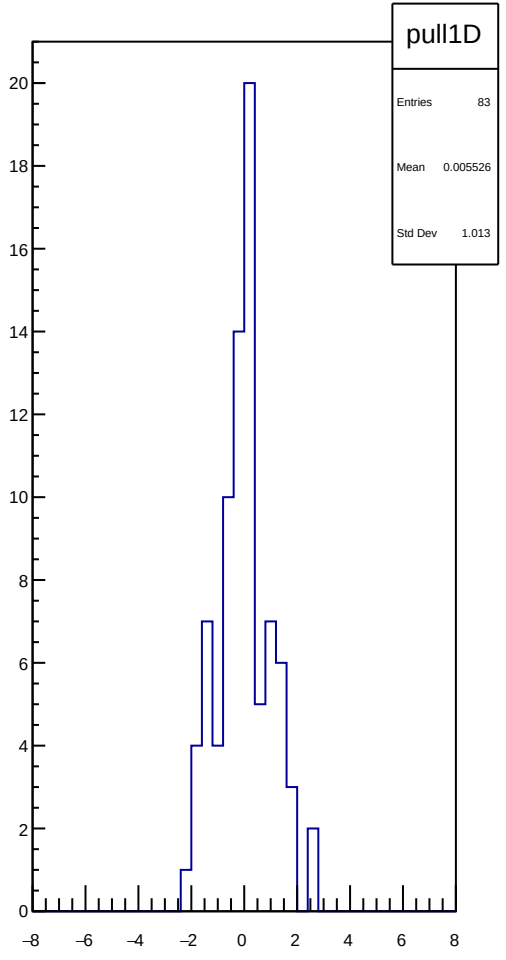

pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

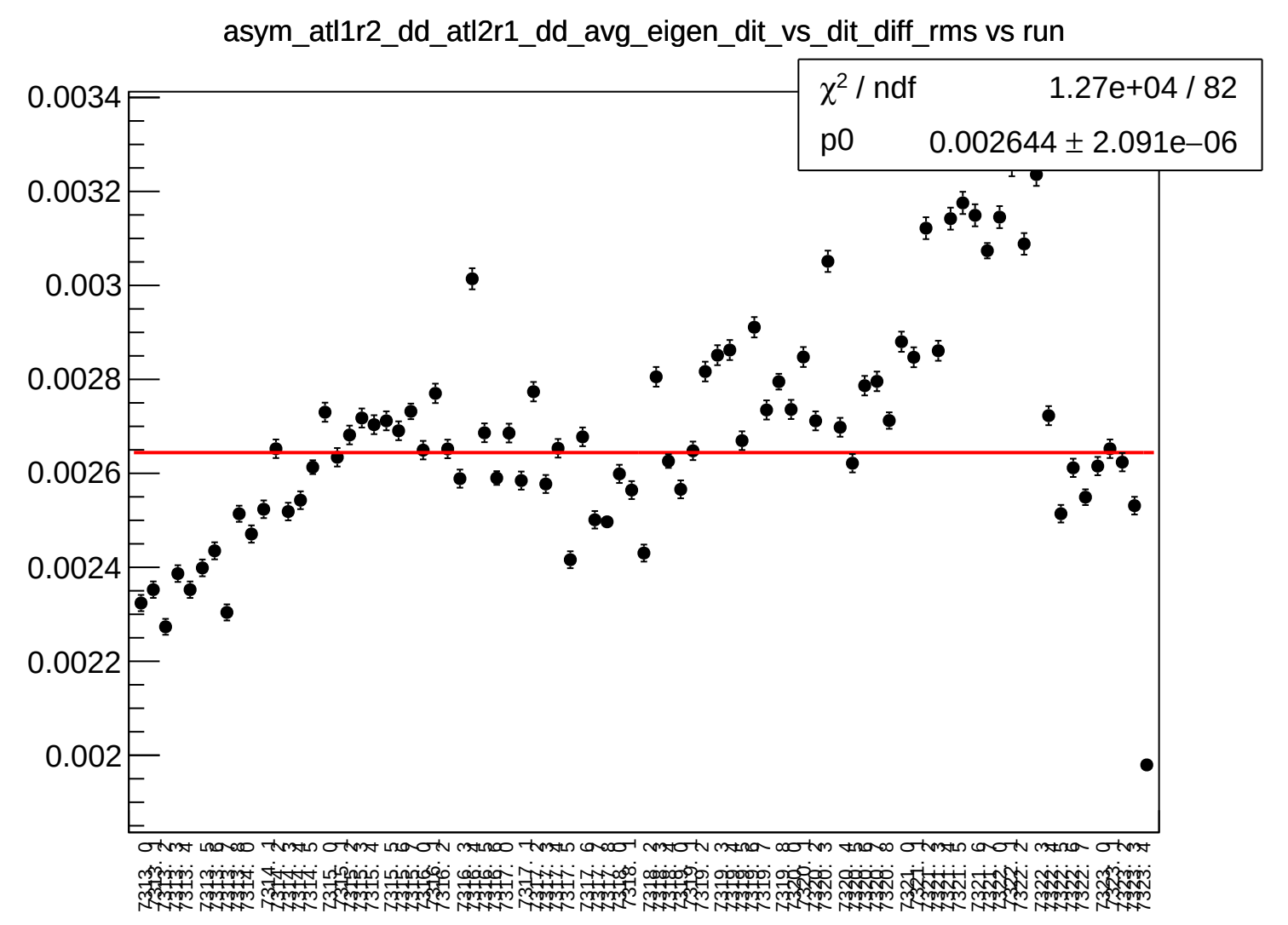

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

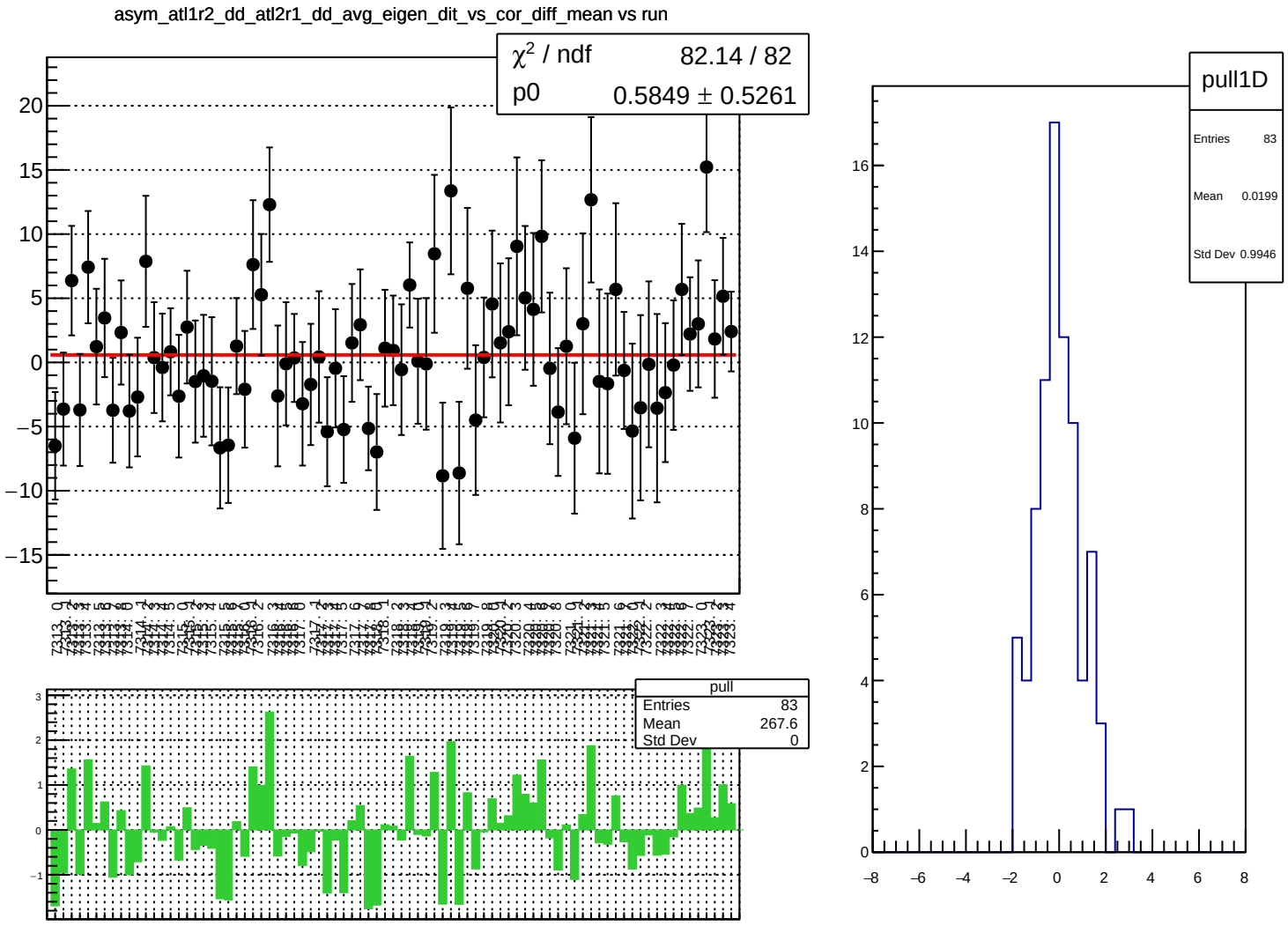

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0
pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

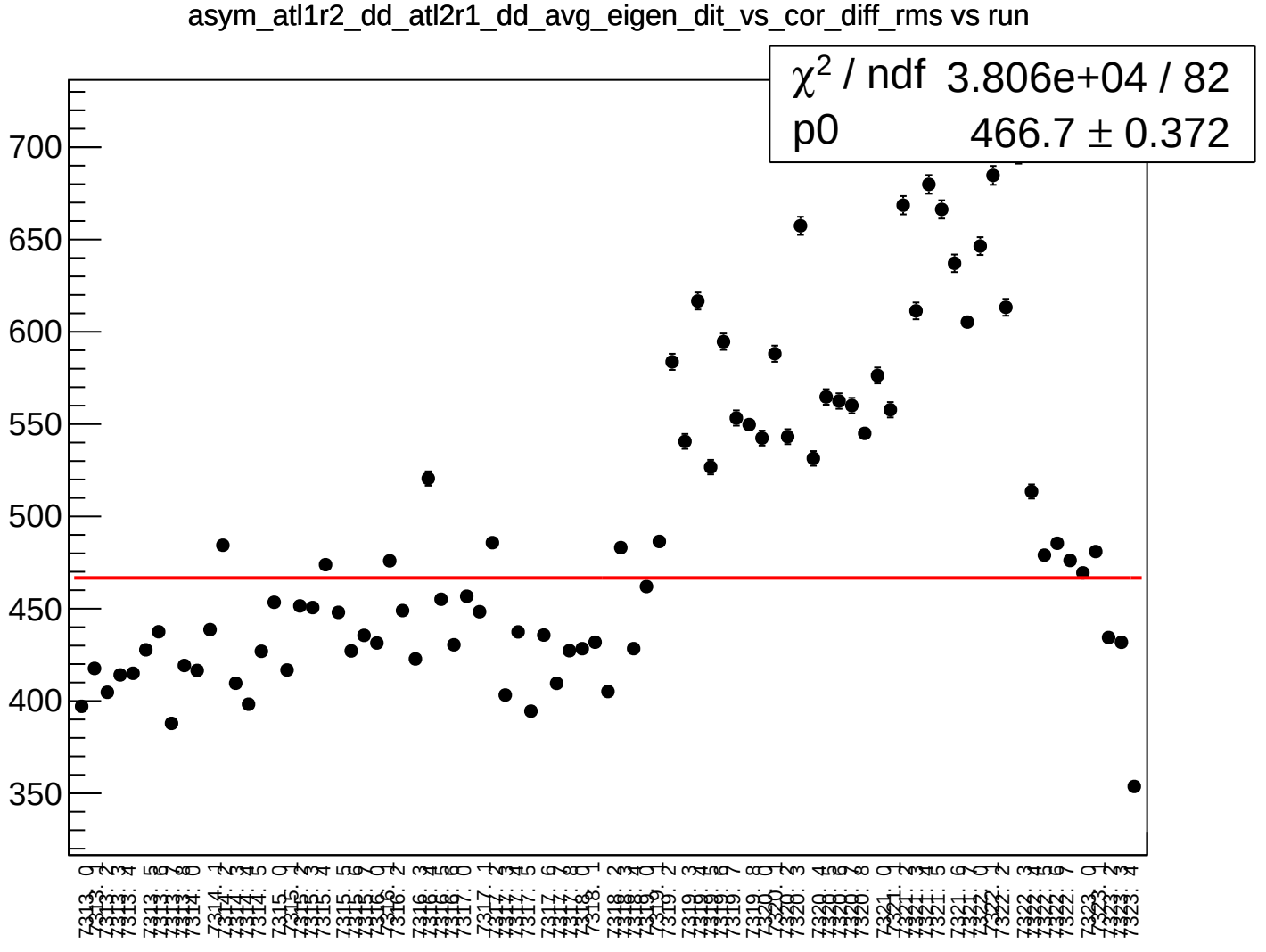

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

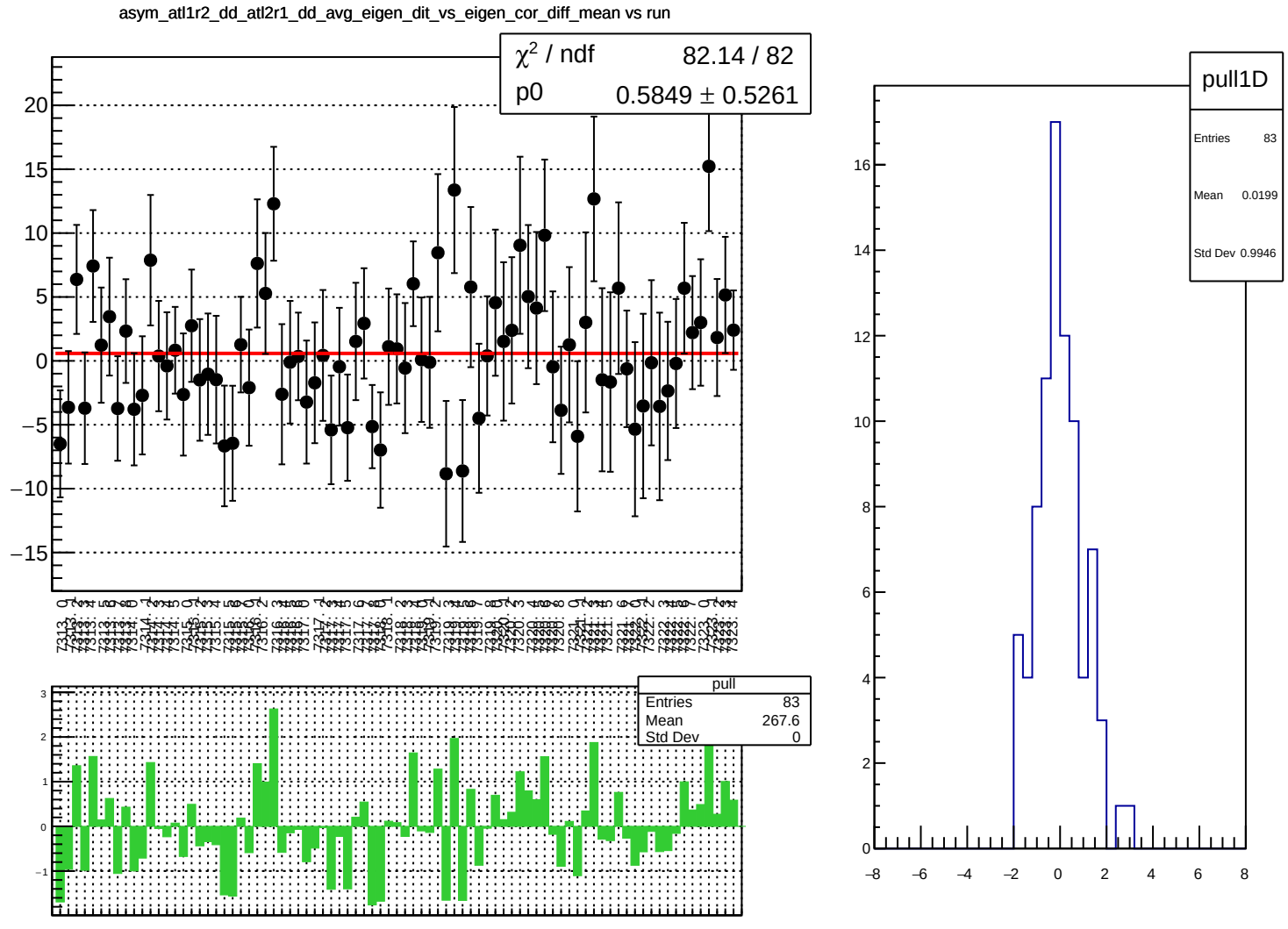

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.23 / 82
p0 2.487e−06 ± 2.957e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean 854.8
Std Dev 0
3
2
1
0
−1
−2

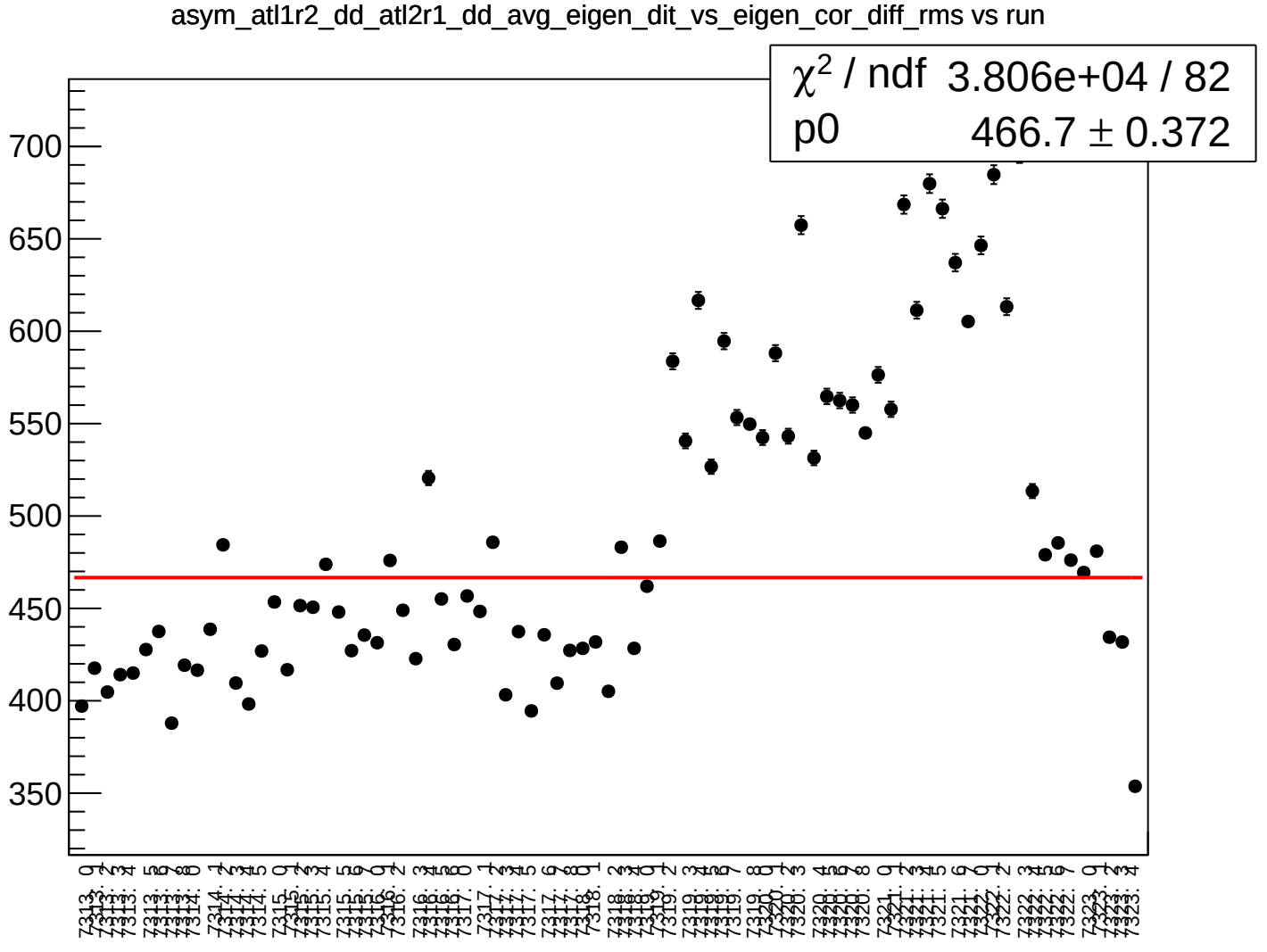

pull1D
Entries 83
Mean 0.005526
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

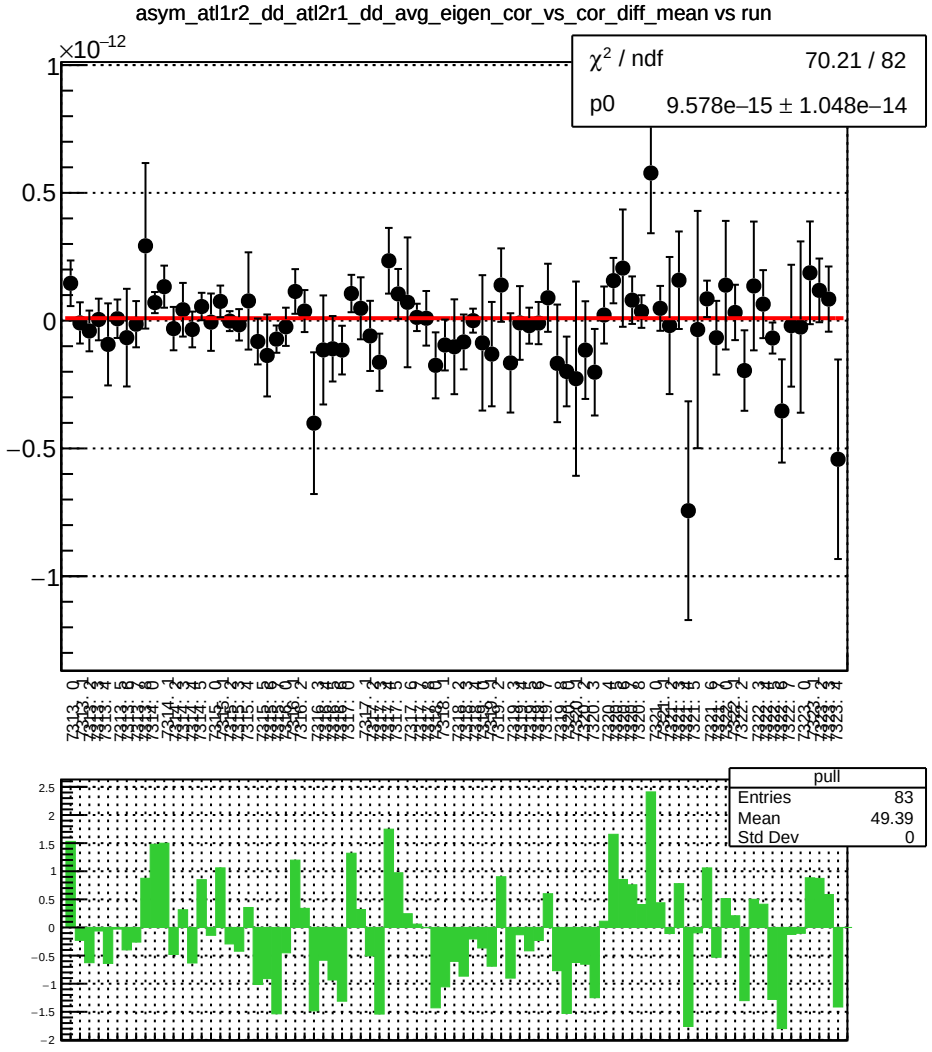

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.27e+04 / 82
p0 0.002644 ± 2.091e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

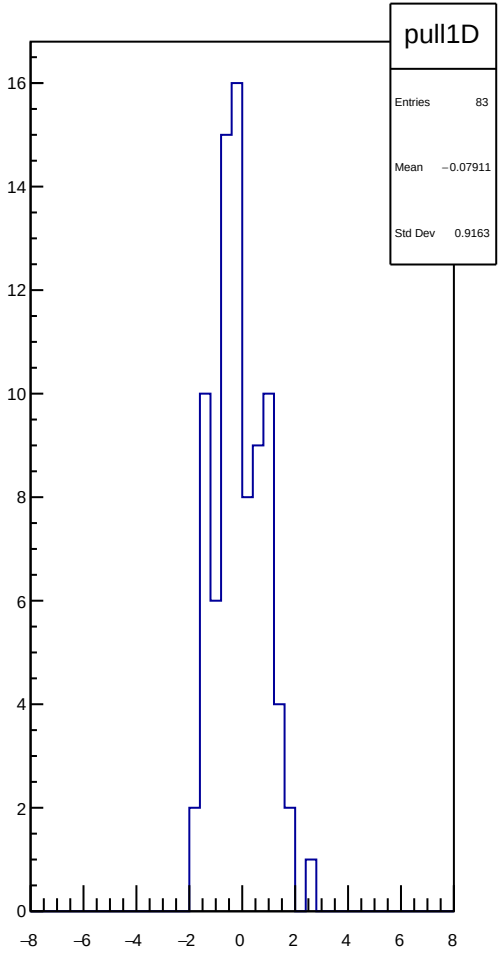

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0
pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

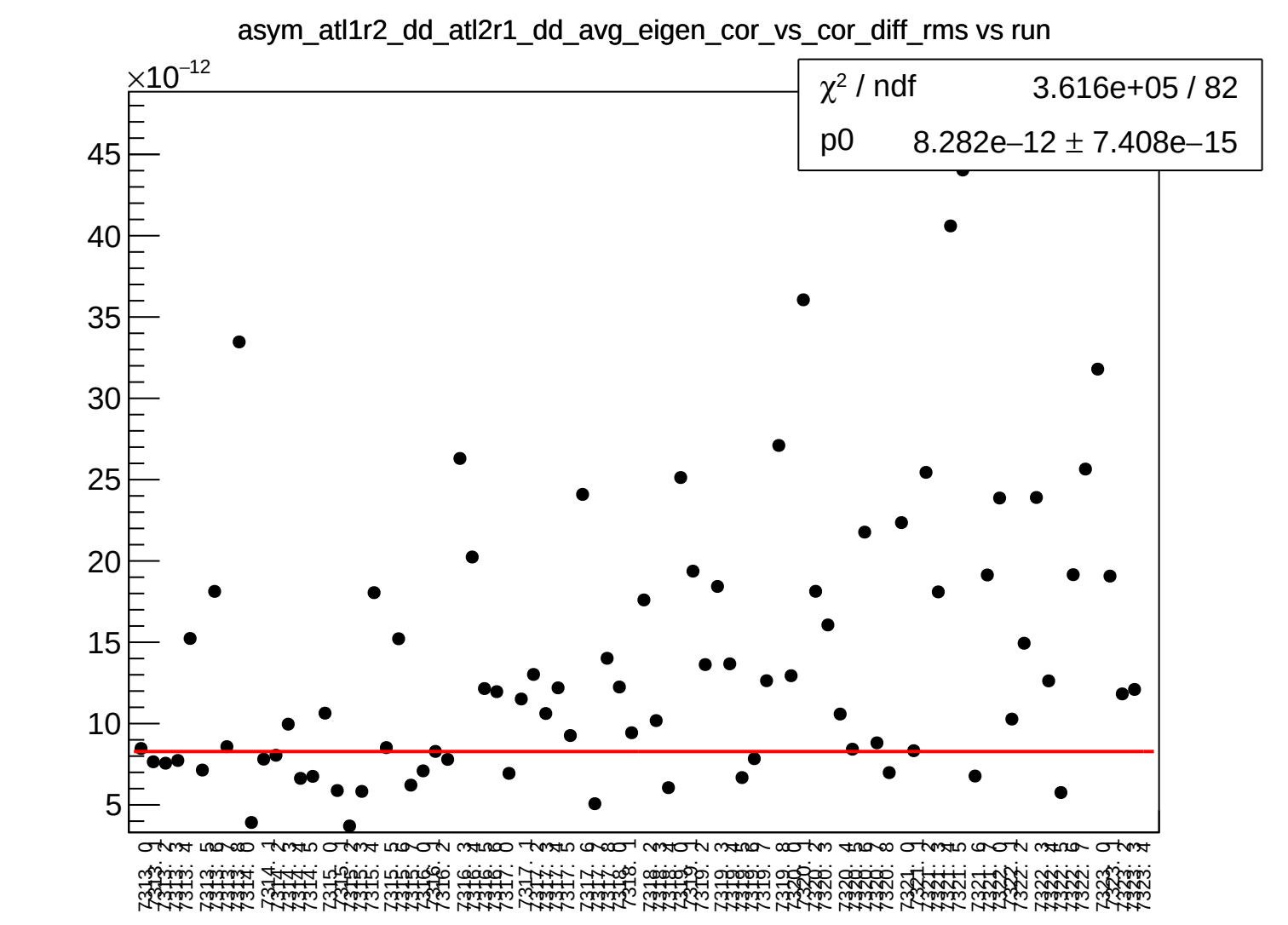

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

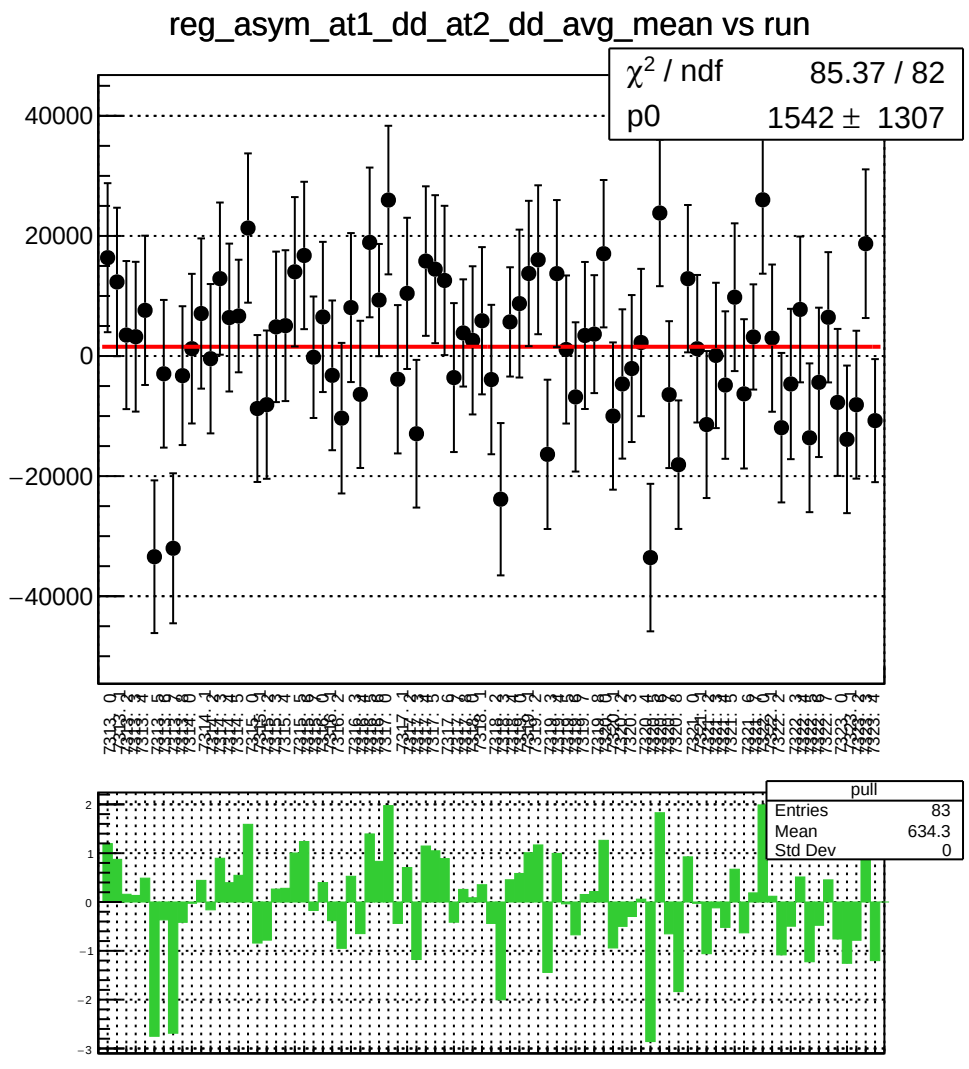

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 82
p0 0.5849 ± 0.5261
pull
Entries 83
Mean 267.6
Std Dev 0
pull1D
Entries 83
Mean 0.0199
Std Dev 0.9946

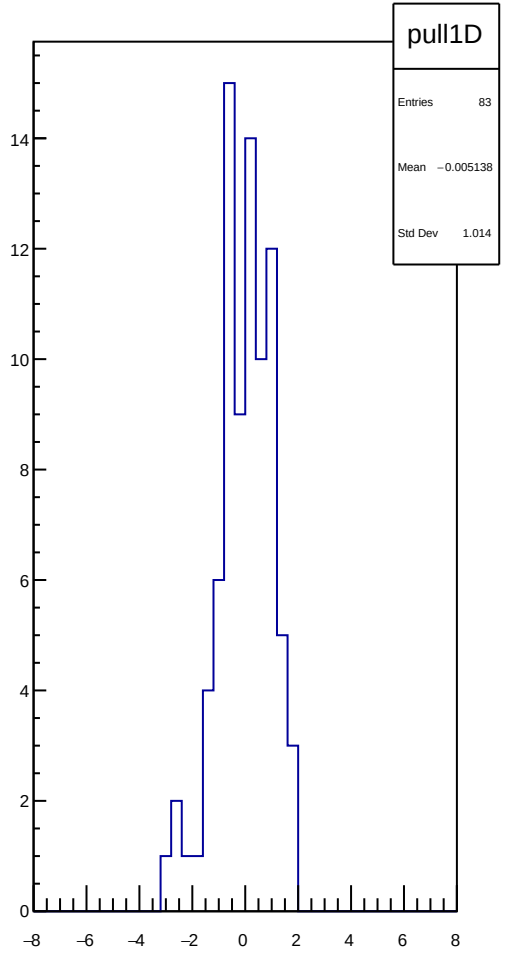

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 82
p0 466.7 ± 0.372
700
650
600
550
500
450
400
350

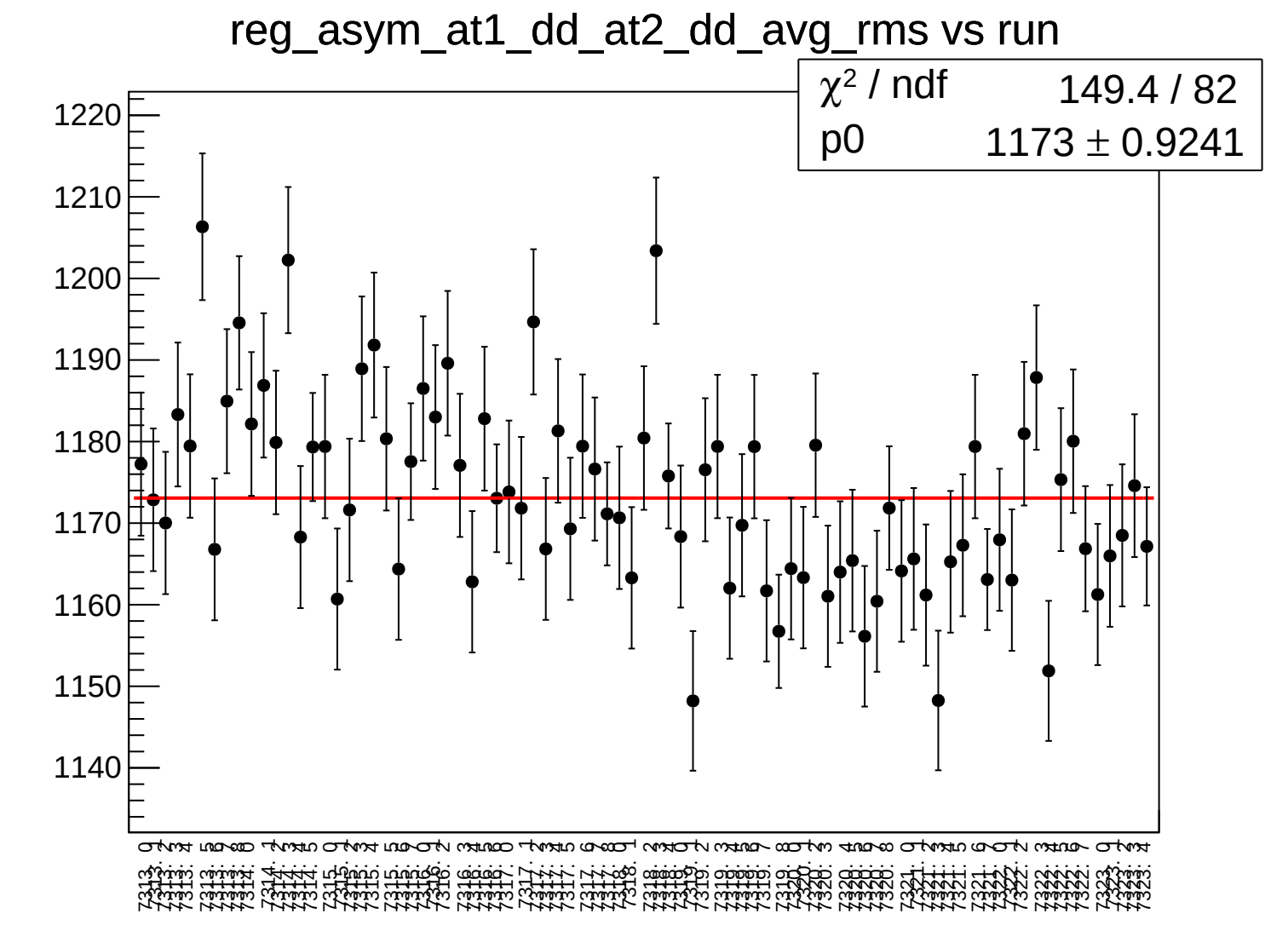

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 70.21 / 82
p0 9.578e−15 ± 1.048e−14
pull
Entries 83
Mean 49.39
Std Dev 0

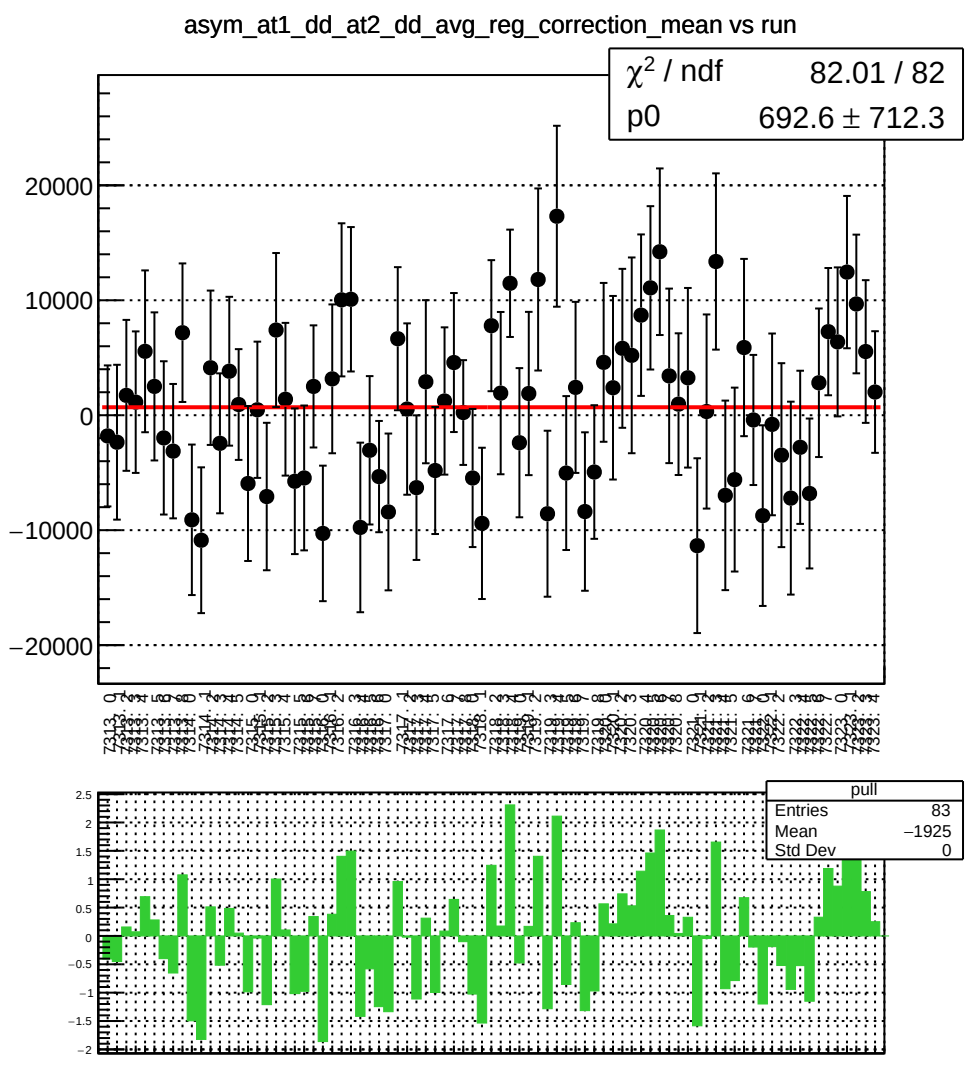

pull1D
Entries 83
Mean −0.07911
Std Dev 0.9163

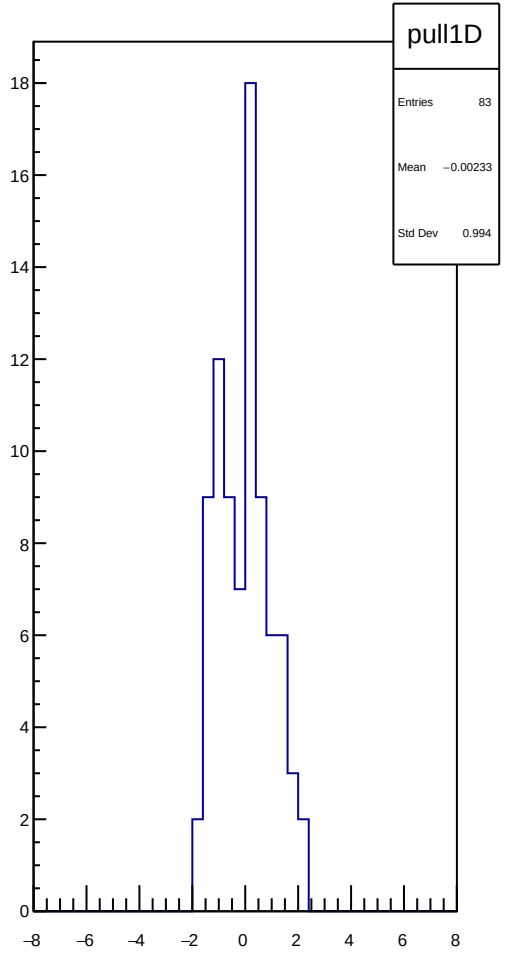

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.616e+05 / 82
p0 8.282e−12 ± 7.408e−15
45
40
35
30
25
20
15
10
5

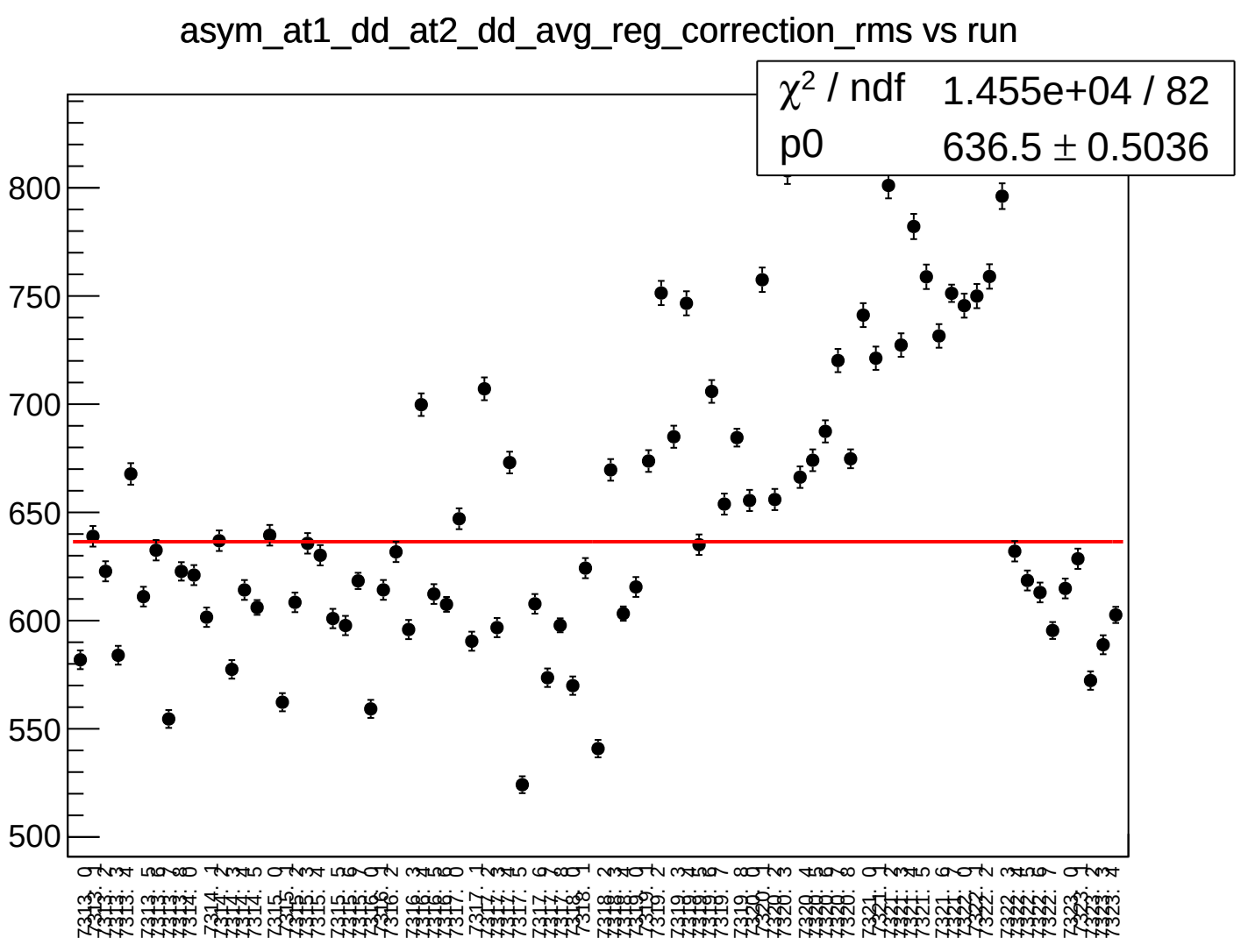

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.37 / 82
p0 1542 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 634.3
Std Dev 0
2
1
0
−1
−2
−3

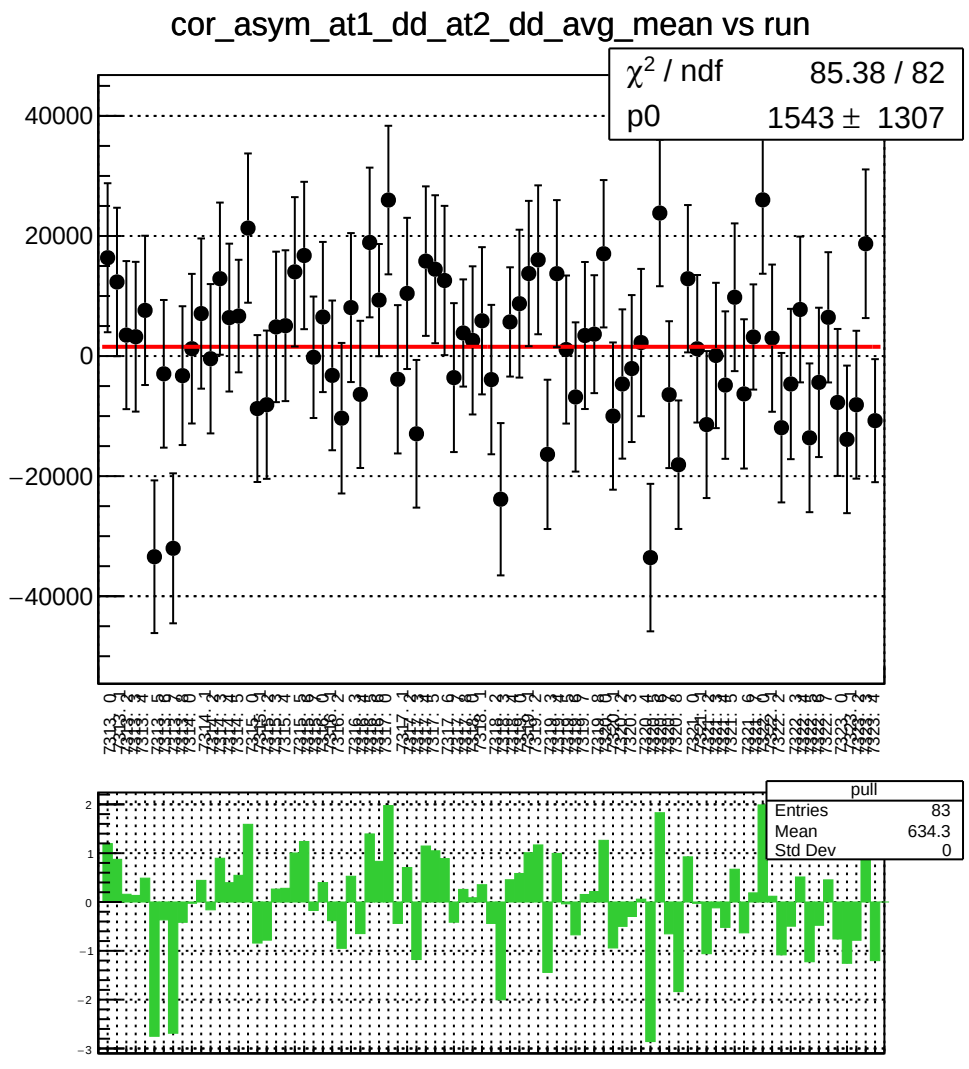

pull1D
Entries 83
Mean −0.005138
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

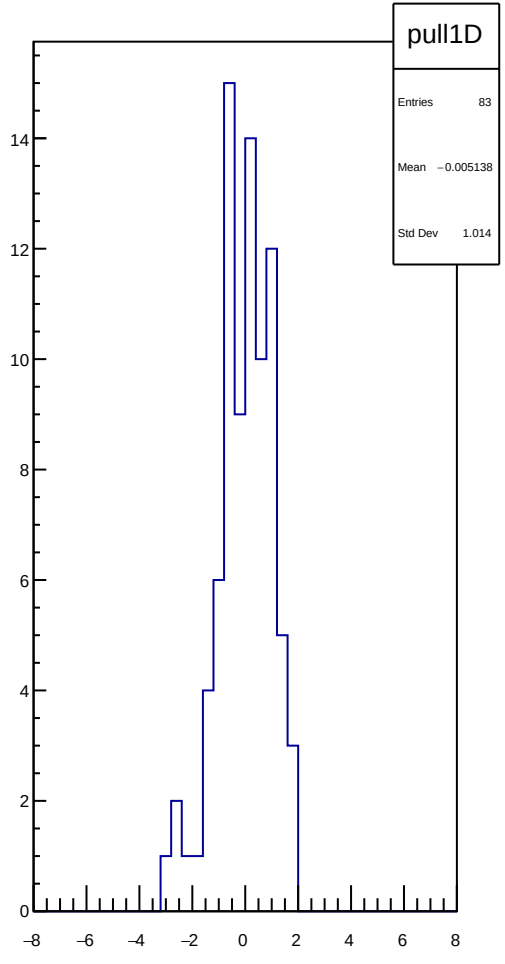

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 149.4 / 82
p0 1173 ± 0.9241
1220
1210
1200
1190
1180
1170
1160
1150
1140

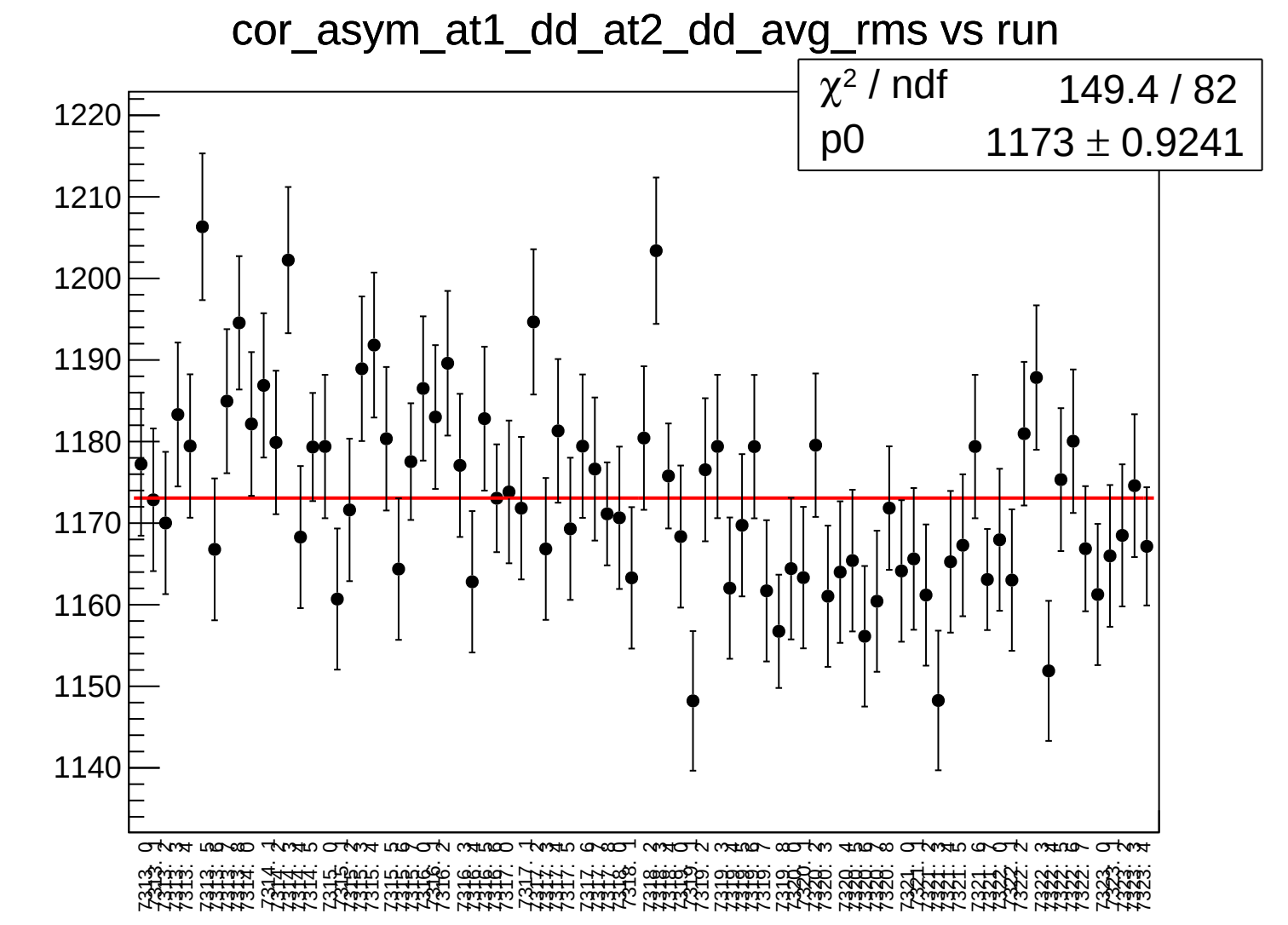

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 82.01 / 82
p0 692.6 ± 712.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1925
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

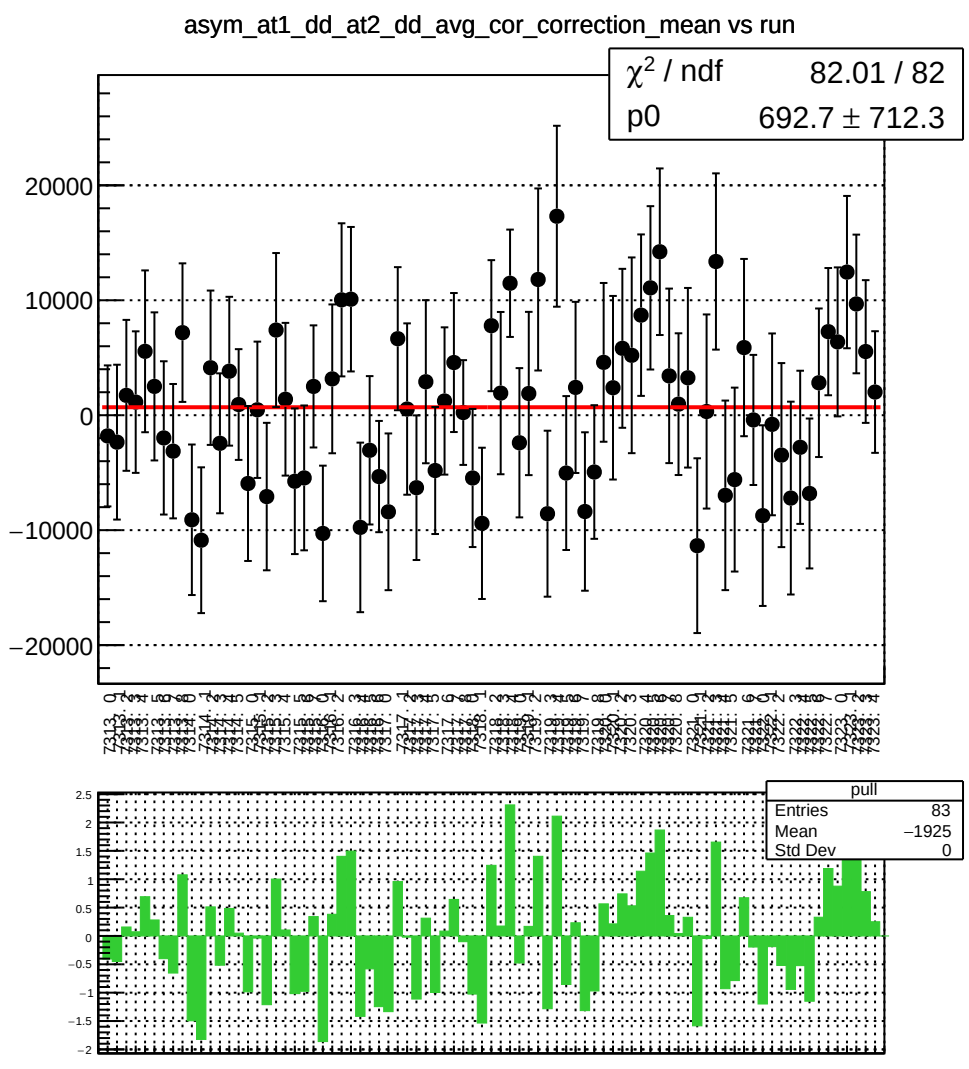

pull1D
Entries 83
Mean −0.00233
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

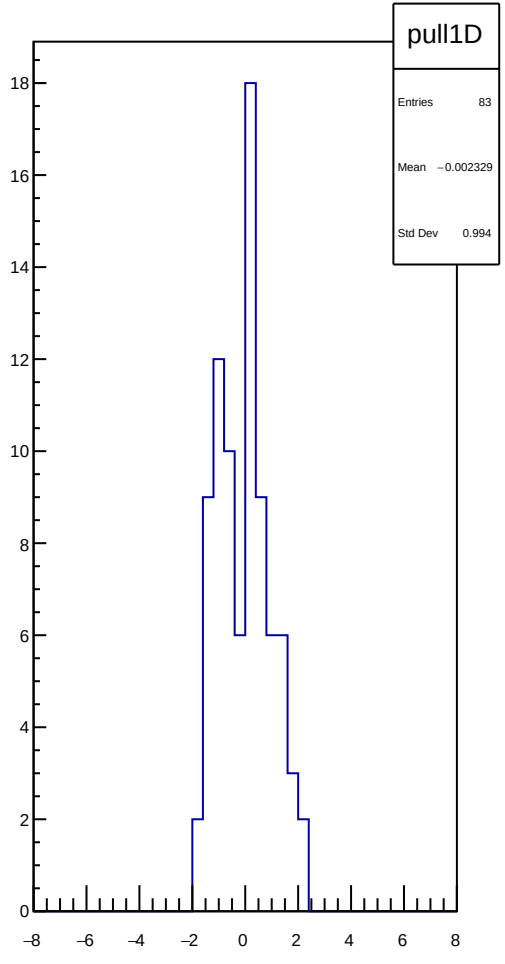

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.455e+04 / 82
p0 636.5 ± 0.5036
800
750
700
650
600
550
500

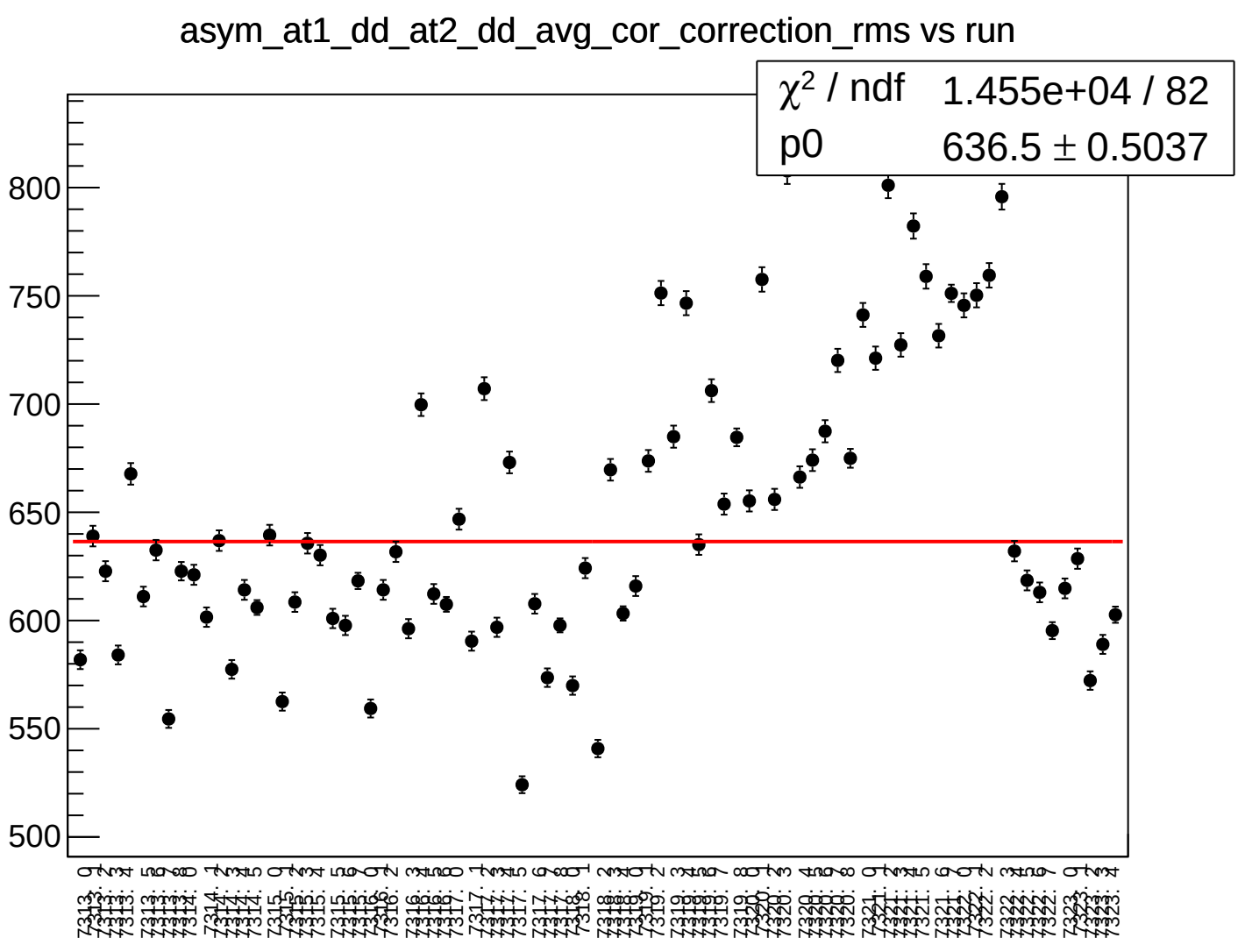

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.38 / 82
p0 1543 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 634.3
Std Dev 0
2
1
0
−1
−2
−3

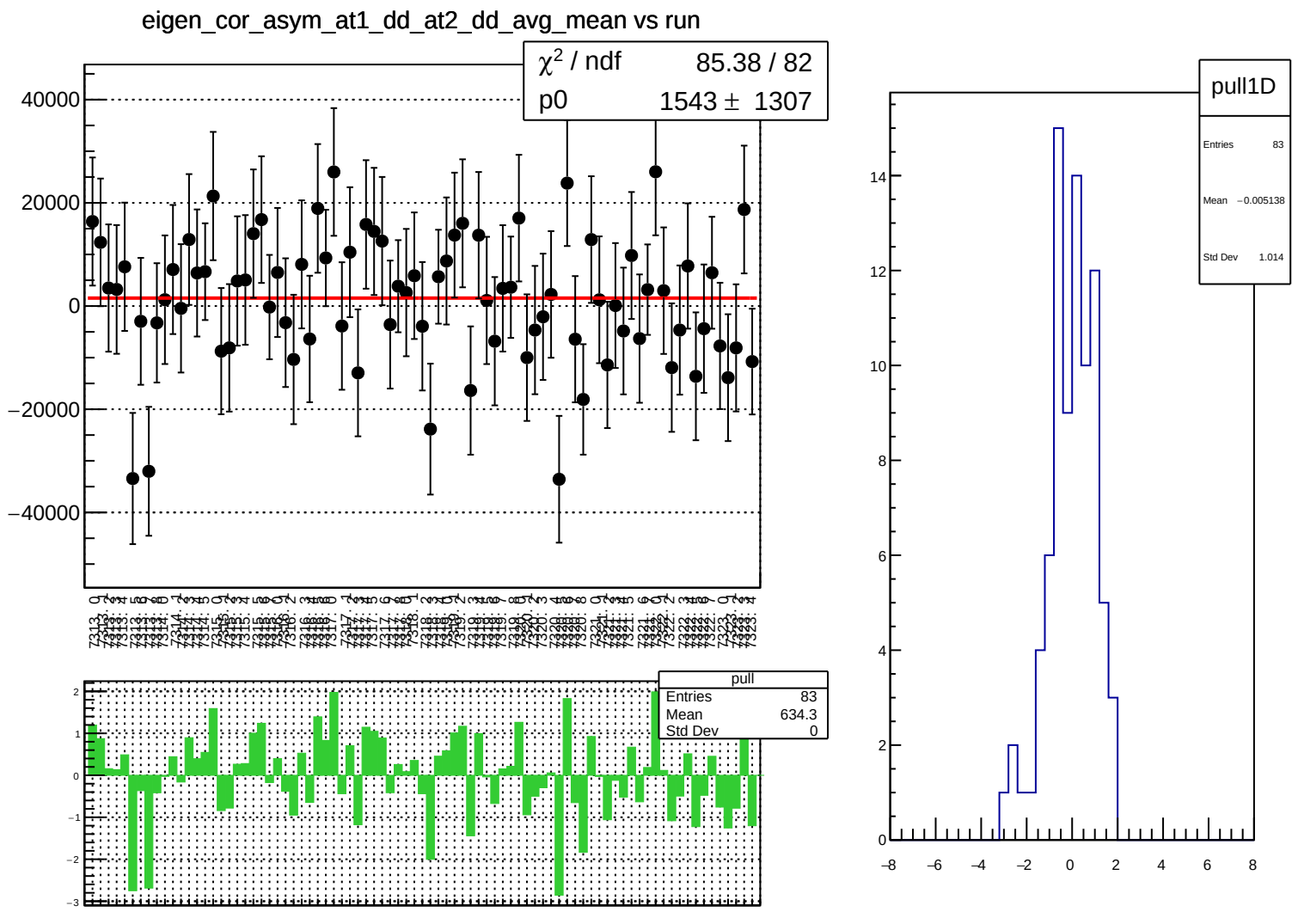

pull1D
Entries 83
Mean −0.005138
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

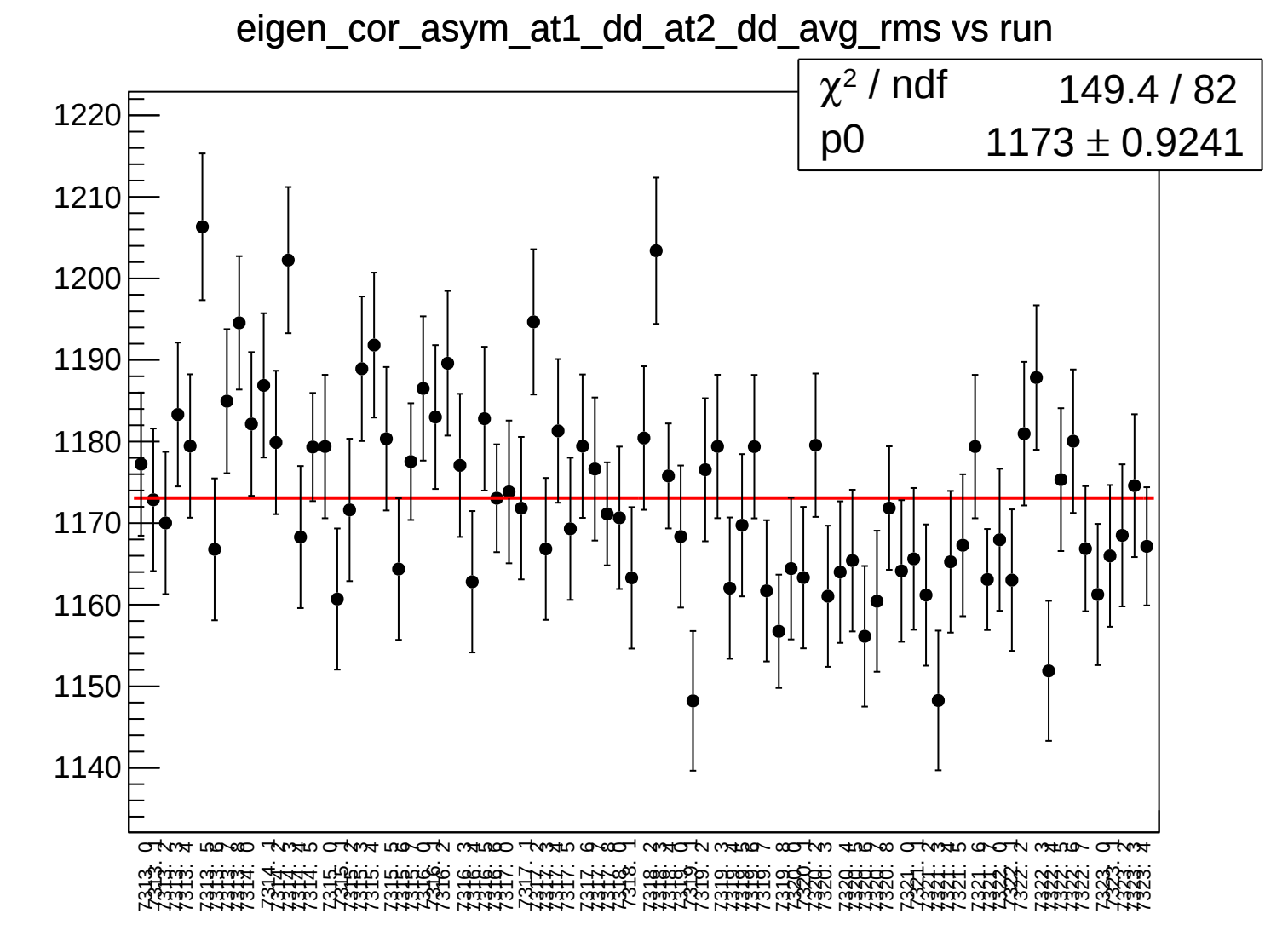

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 149.4 / 82
p0 1173 ± 0.9241
1220
1210
1200
1190
1180
1170
1160
1150
1140

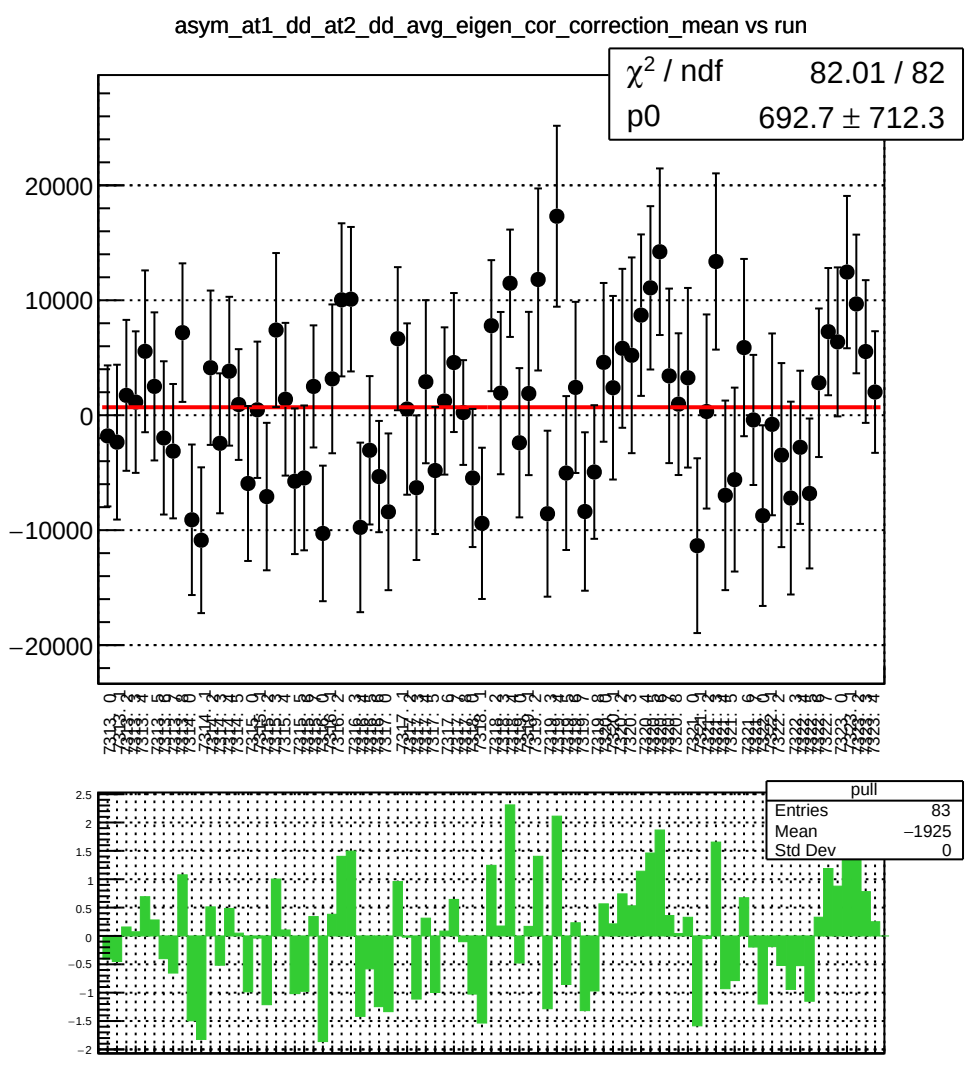

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 82.01 / 82
p0 692.7 ± 712.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1925
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

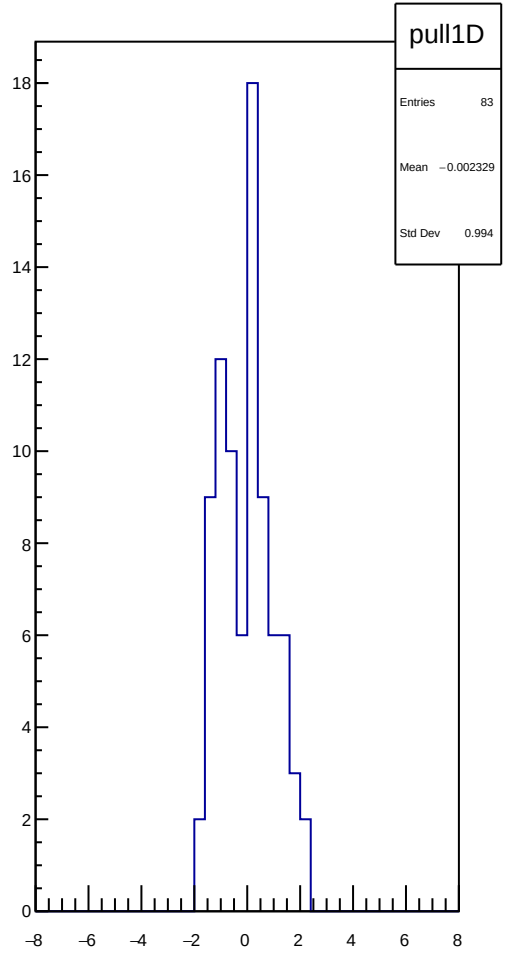

pull1D
Entries 83
Mean −0.002329
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

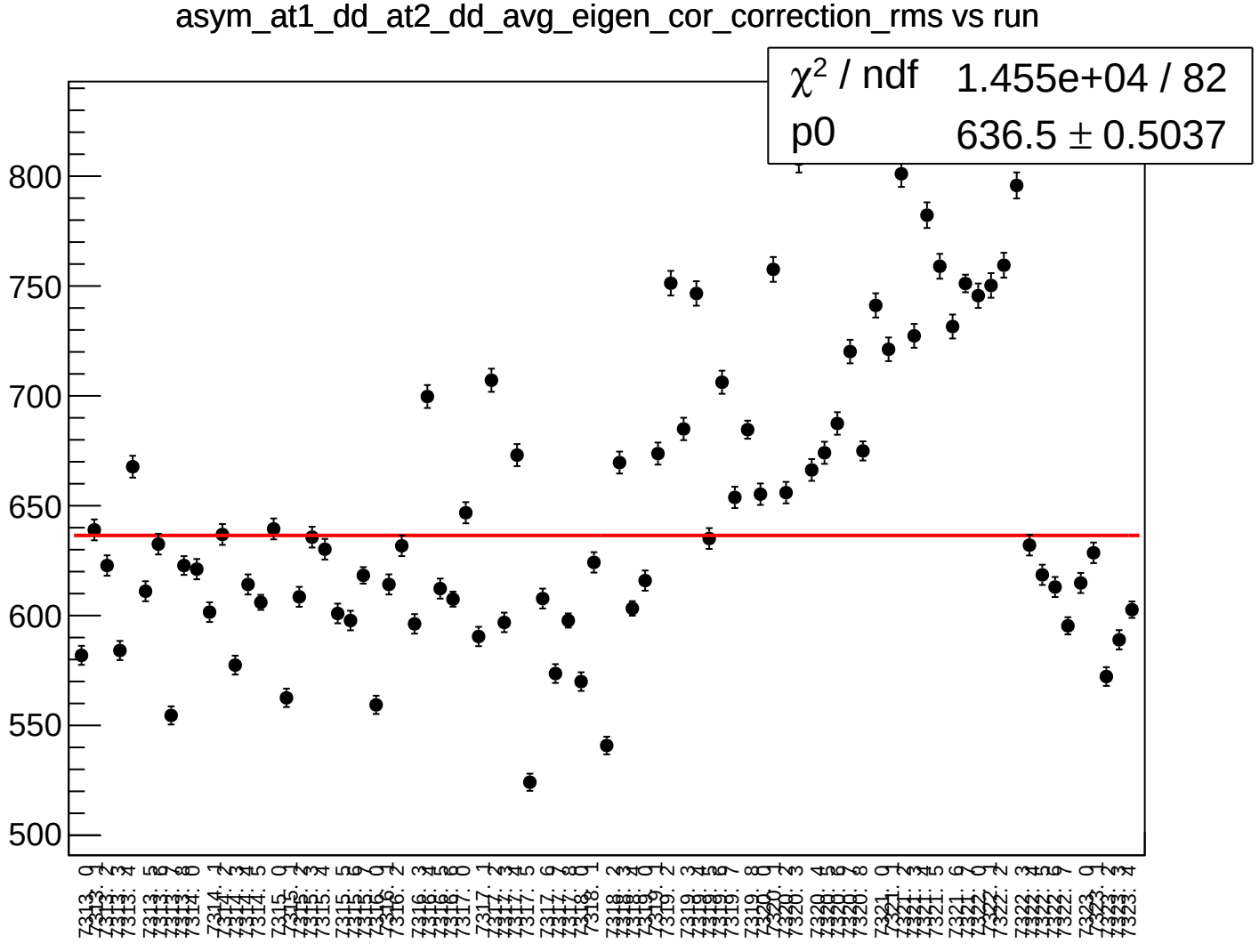

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 82
p0 636.5 ± 0.5037
800
750
700
650
600
550
500

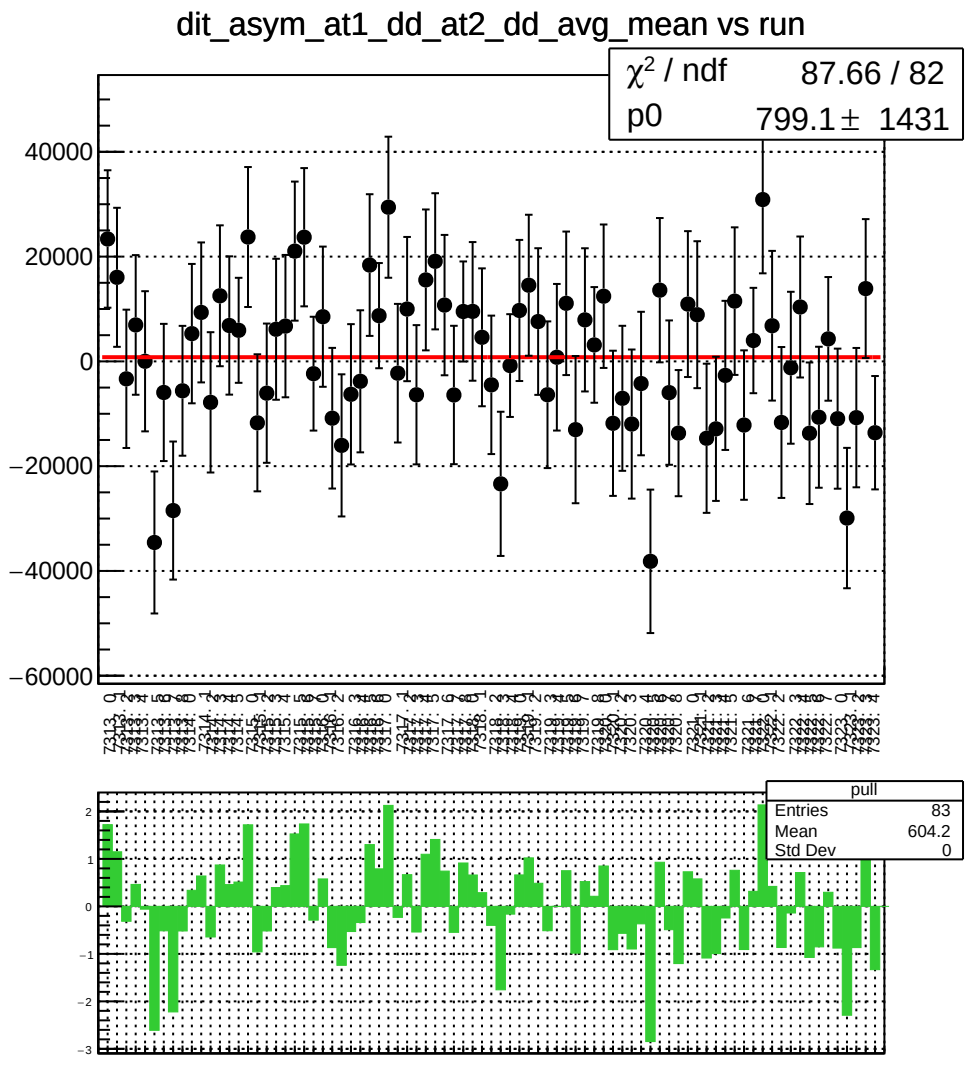

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.38 / 82
p0 1543 ± 1307
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 634.3
Std Dev 0
pull1D
Entries 83
Mean −0.005138
Std Dev 1.014

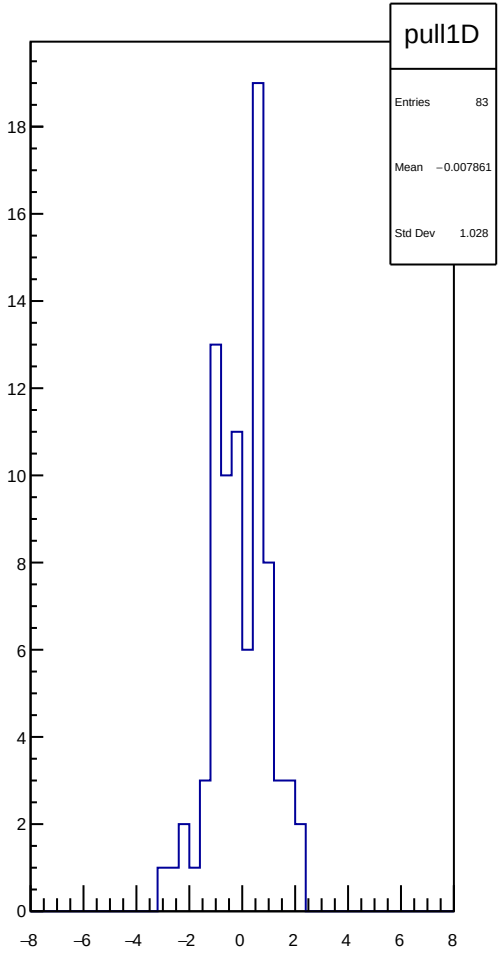

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 149.4 / 82
p0 1173 ± 0.9241
1220
1210
1200
1190
1180
1170
1160
1150
1140

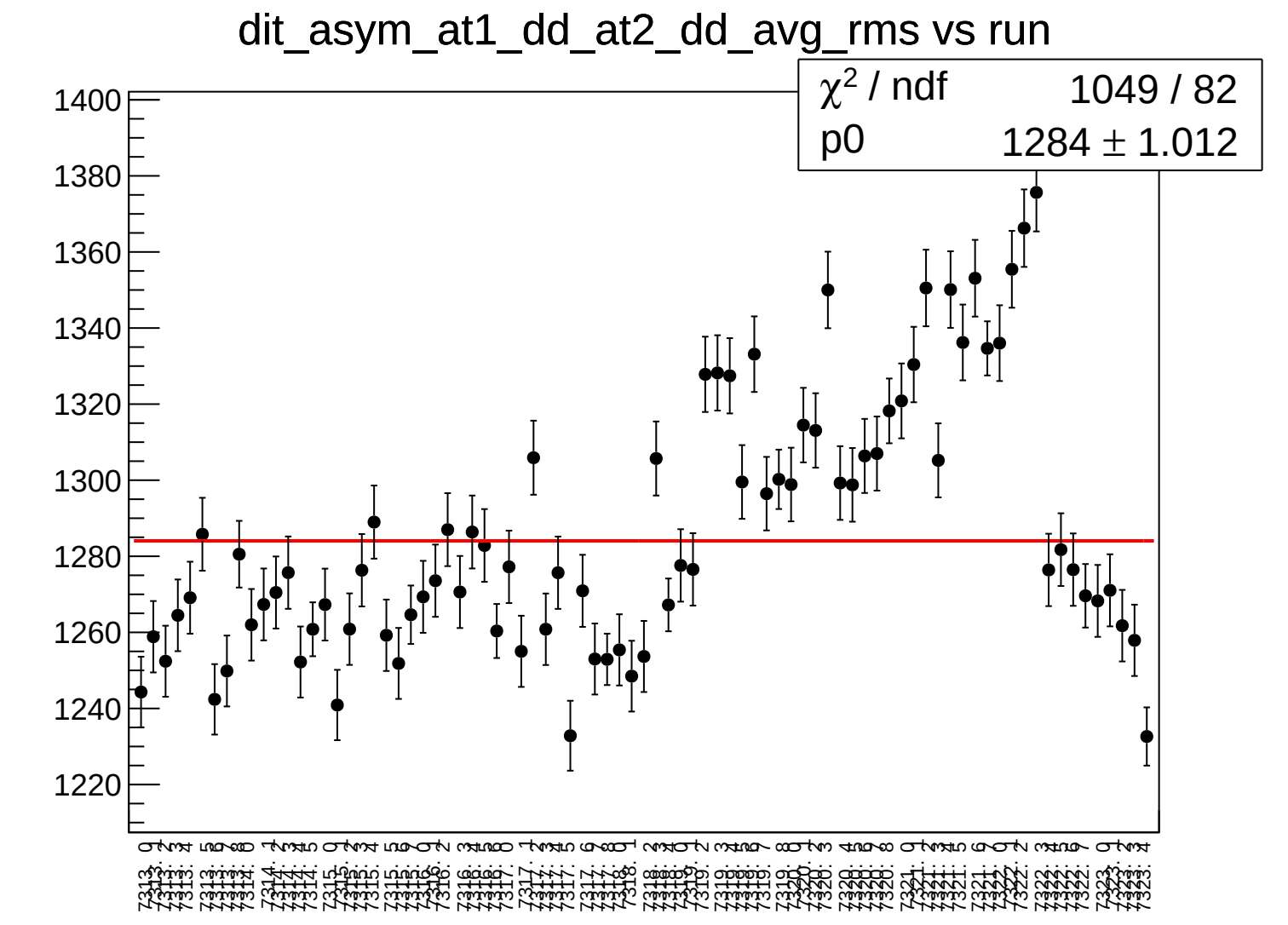

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.01 / 82
p0 692.7 ± 712.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −1925
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

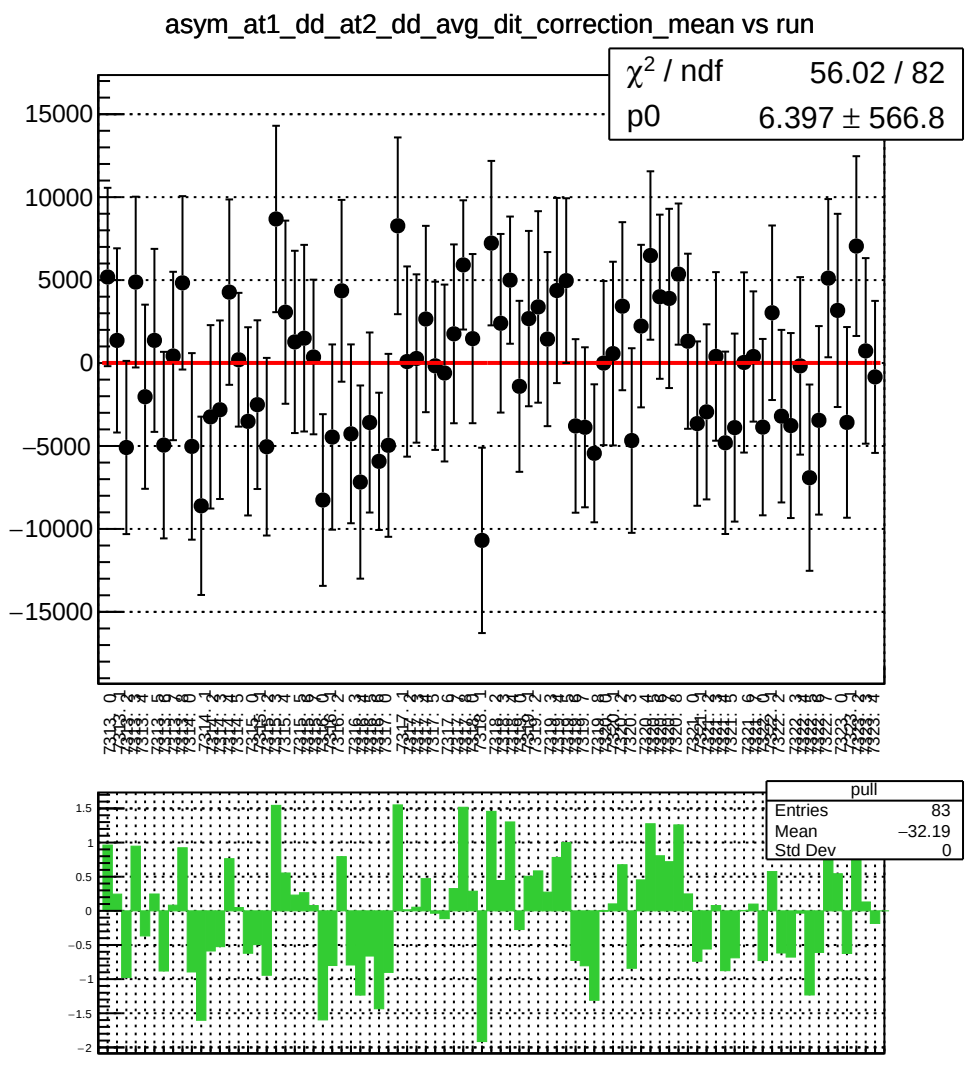

pull1D
Entries 83
Mean −0.002329
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

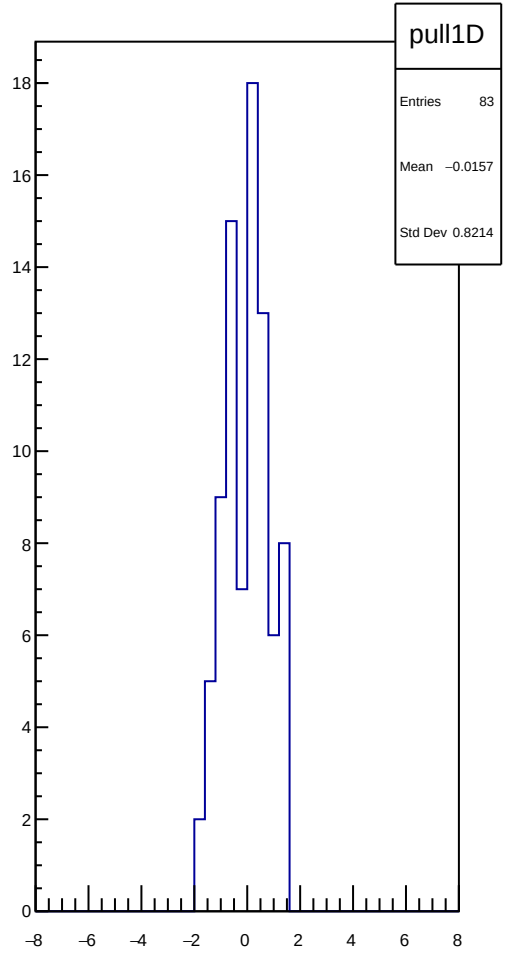

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 82
p0 636.5 ± 0.5037
800
750
700
650
600
550
500

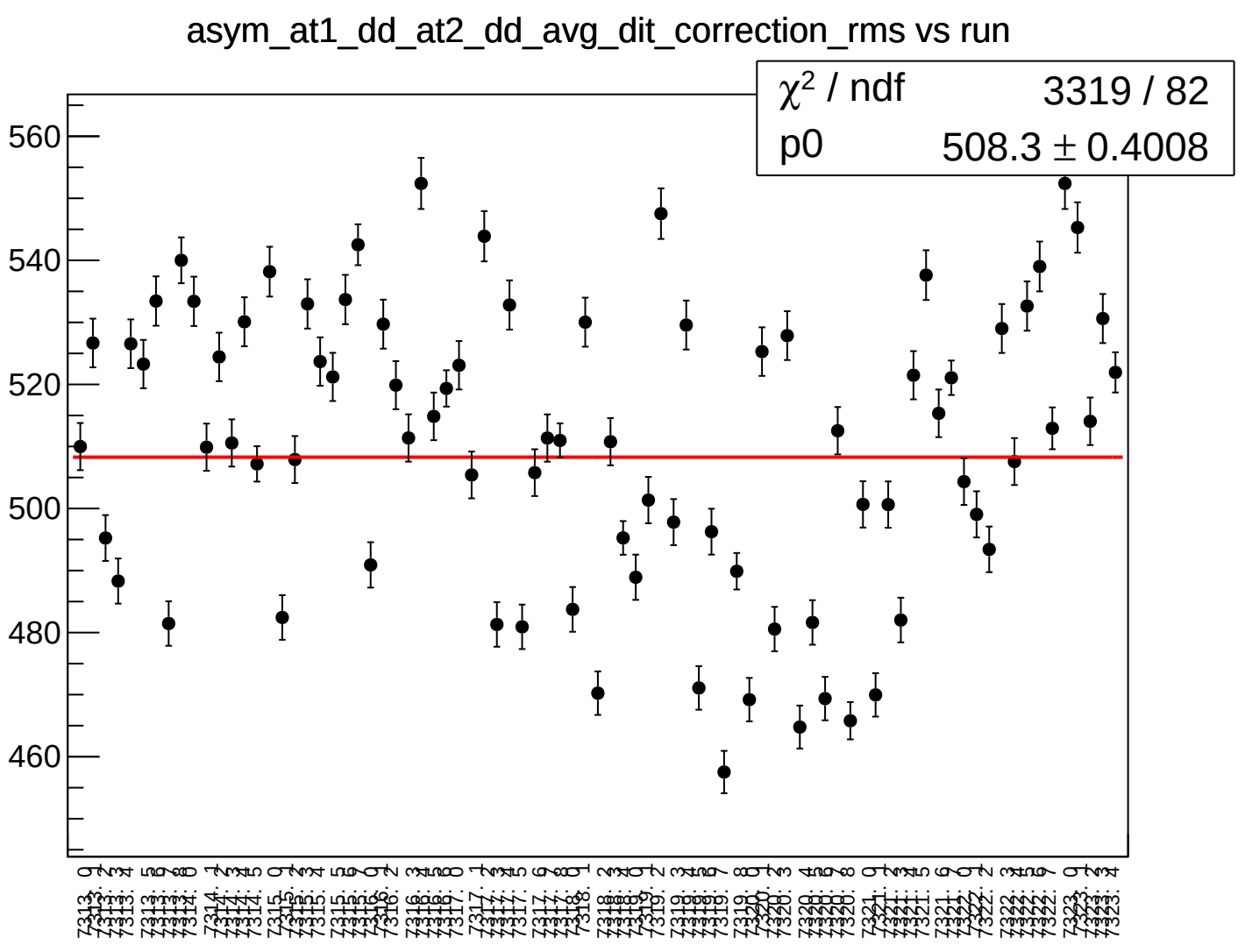

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 87.66 / 82
p0 799.1 ± 1431
pull
Entries 83
Mean 604.2
Std Dev 0

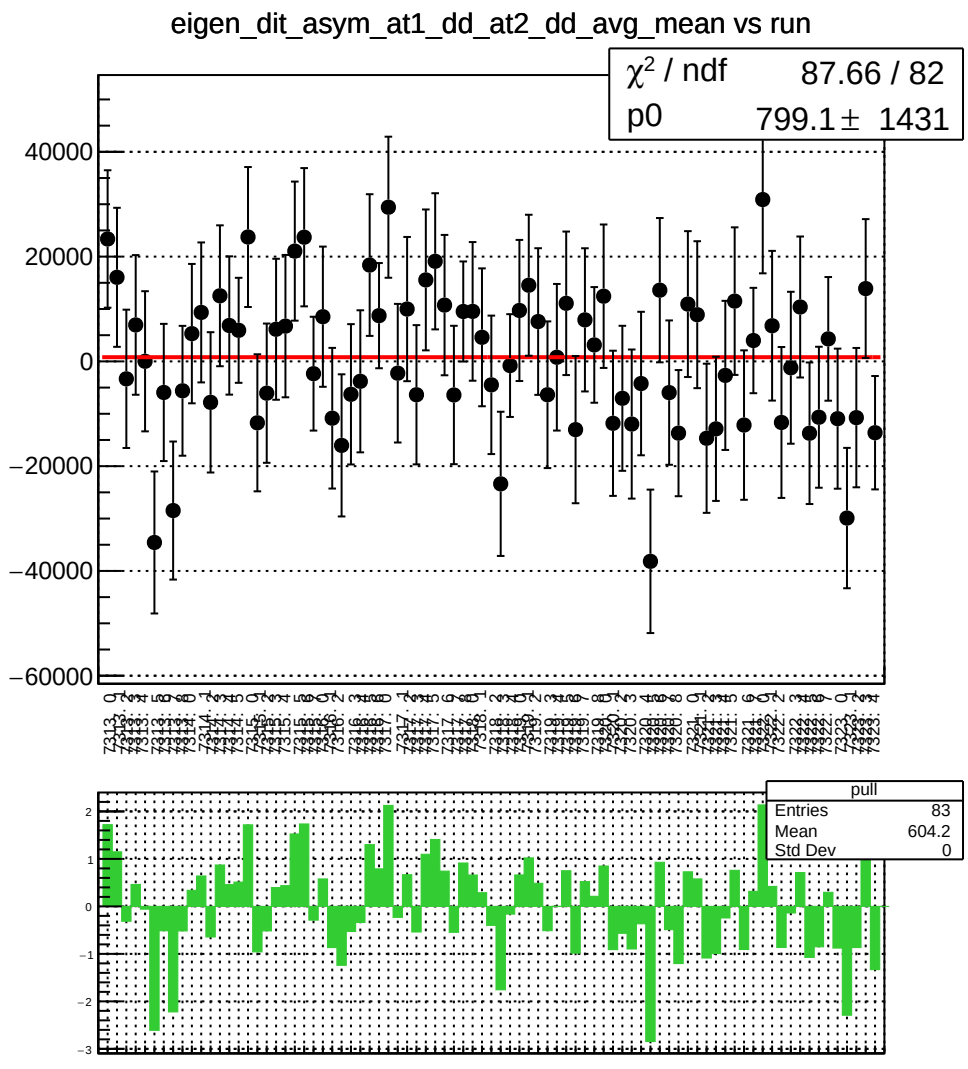

pull1D
Entries 83
Mean −0.007861
Std Dev 1.028

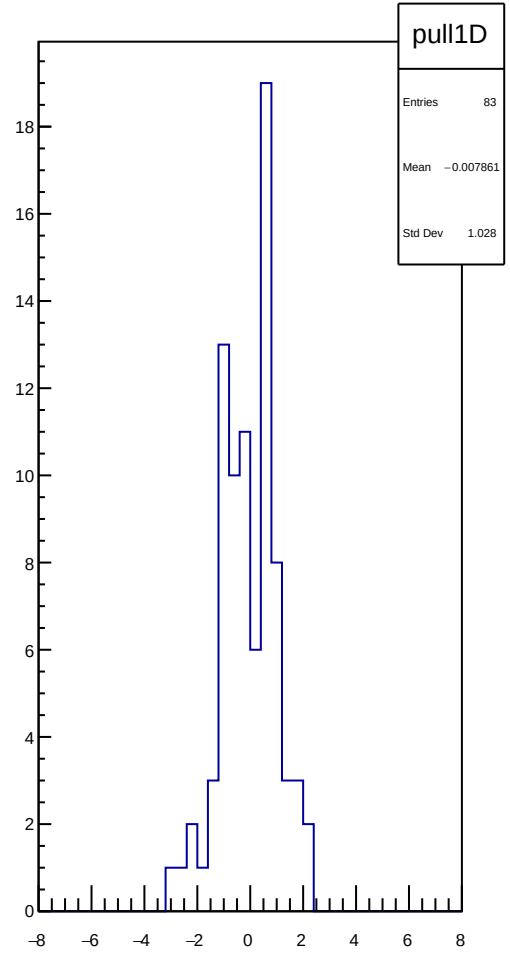

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1049 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

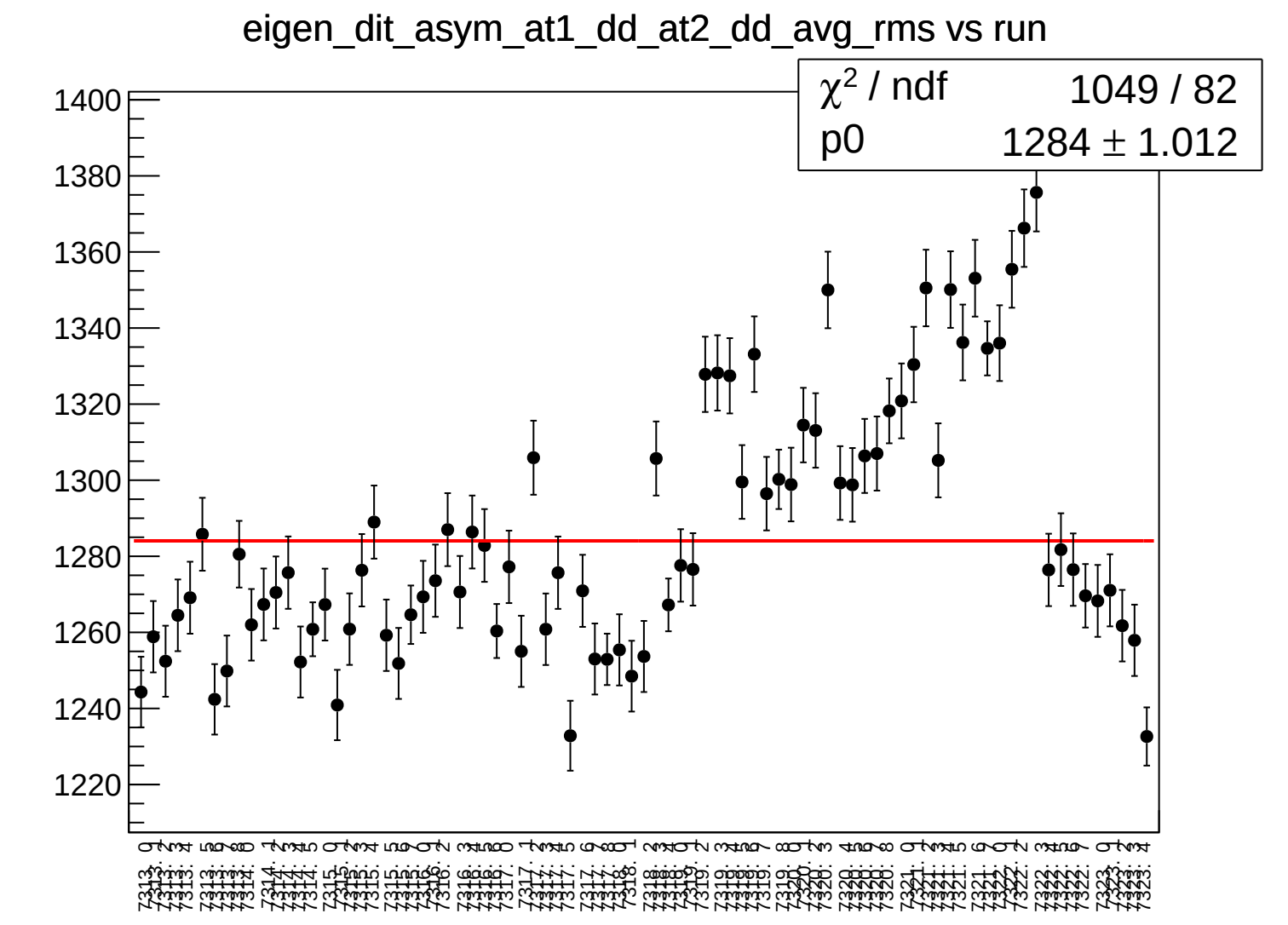

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 56.02 / 82
p0 6.397 ± 566.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −32.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

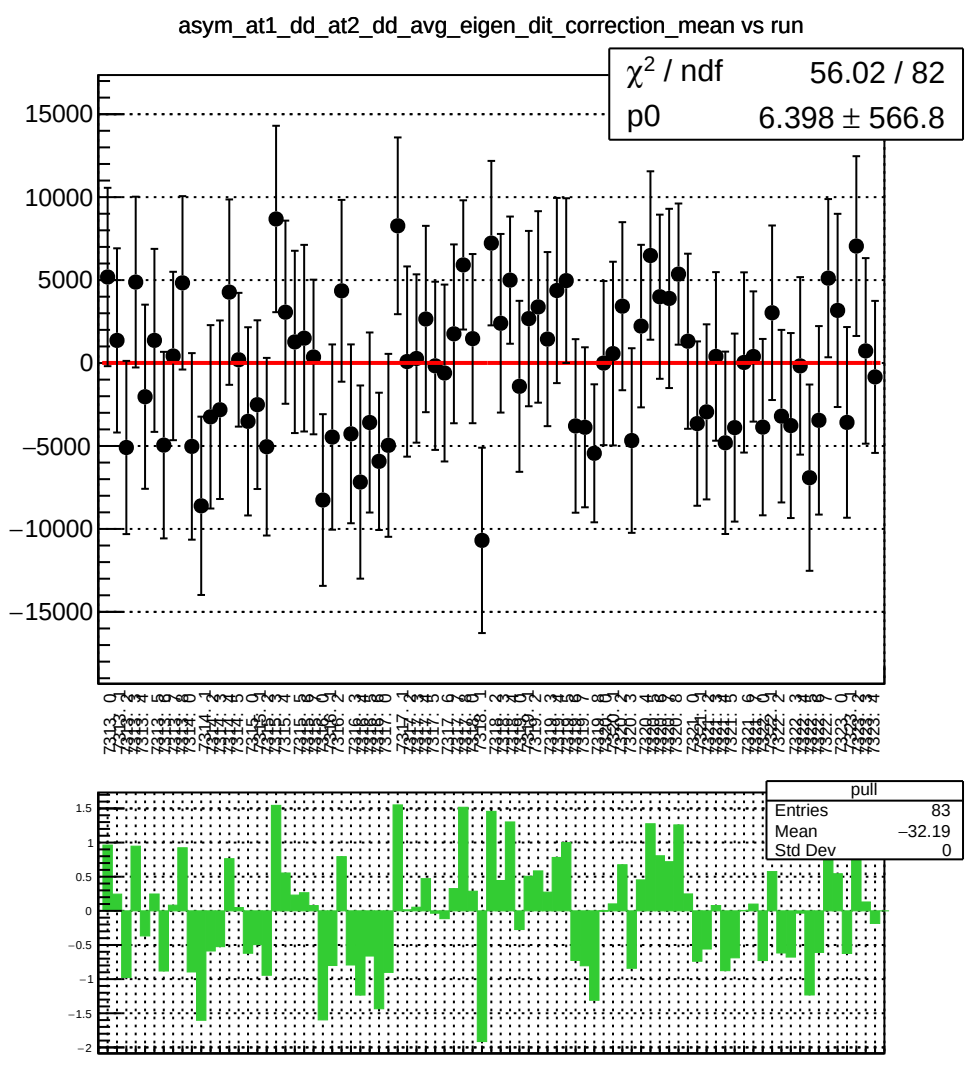

pull1D
Entries 83
Mean −0.0157
Std Dev 0.8214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

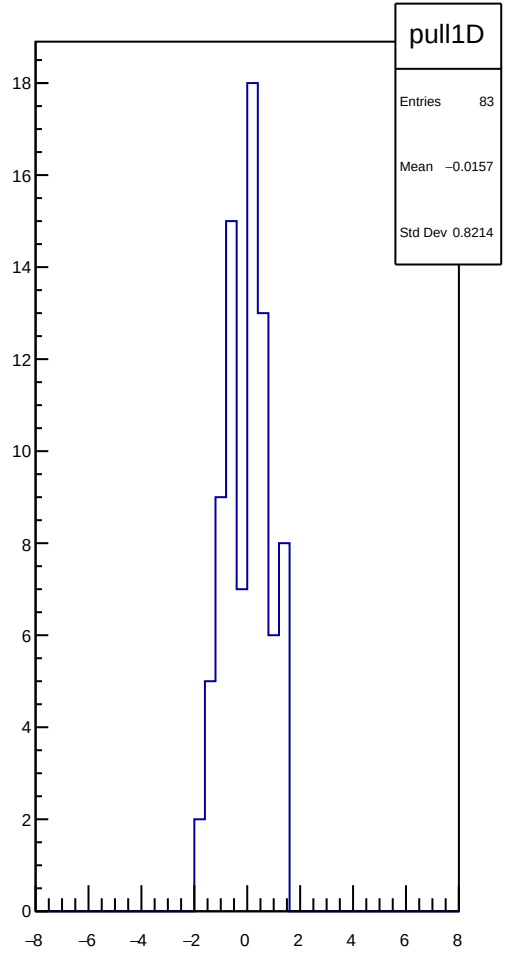

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3319 / 82
p0 508.3 ± 0.4008
560
540
520
500
480
460

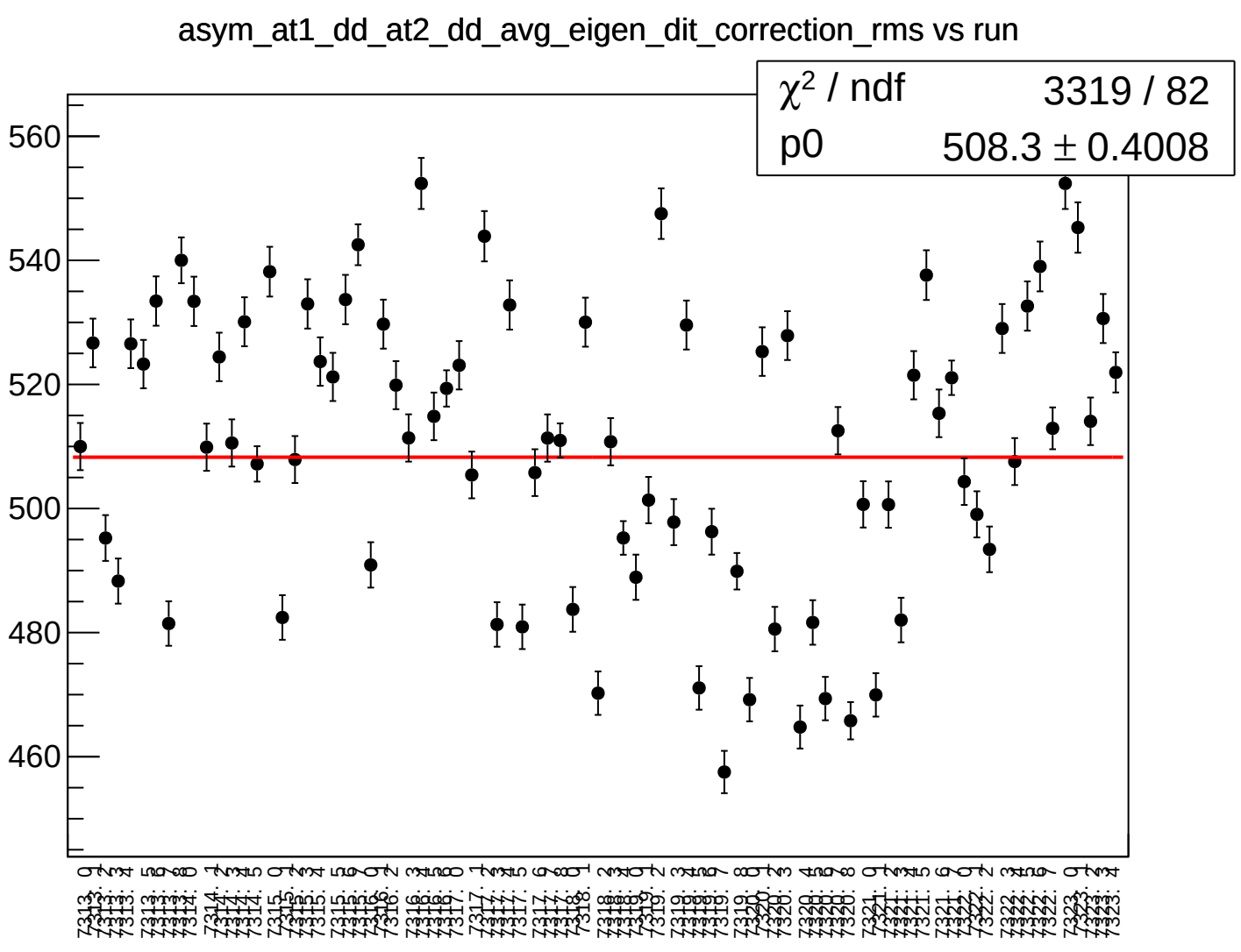

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 87.66 / 82
p0 799.1 ± 1431
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 604.2
Std Dev 0
2
1
0
−1
−2
−3

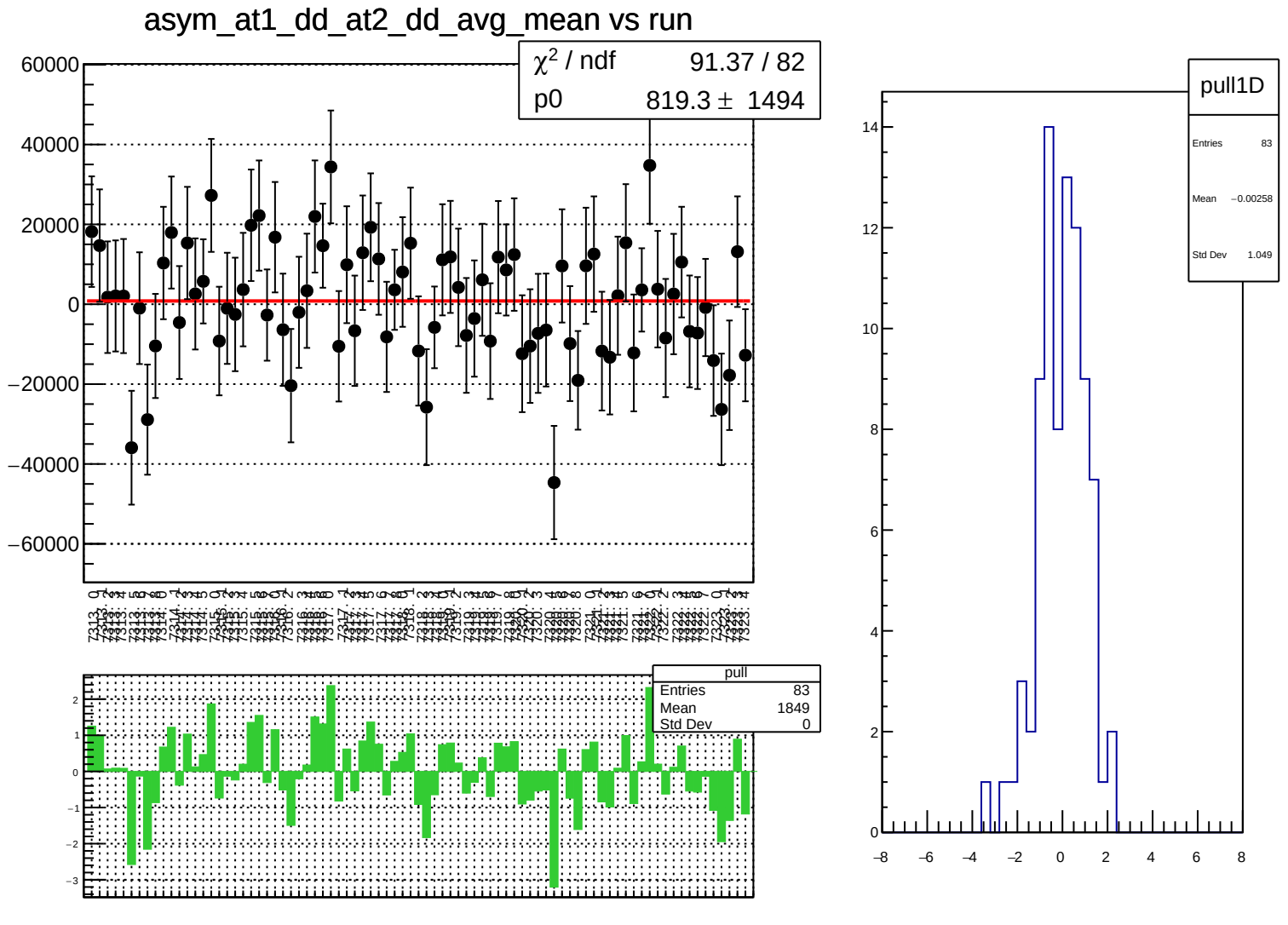

pull1D
Entries 83
Mean −0.007861
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

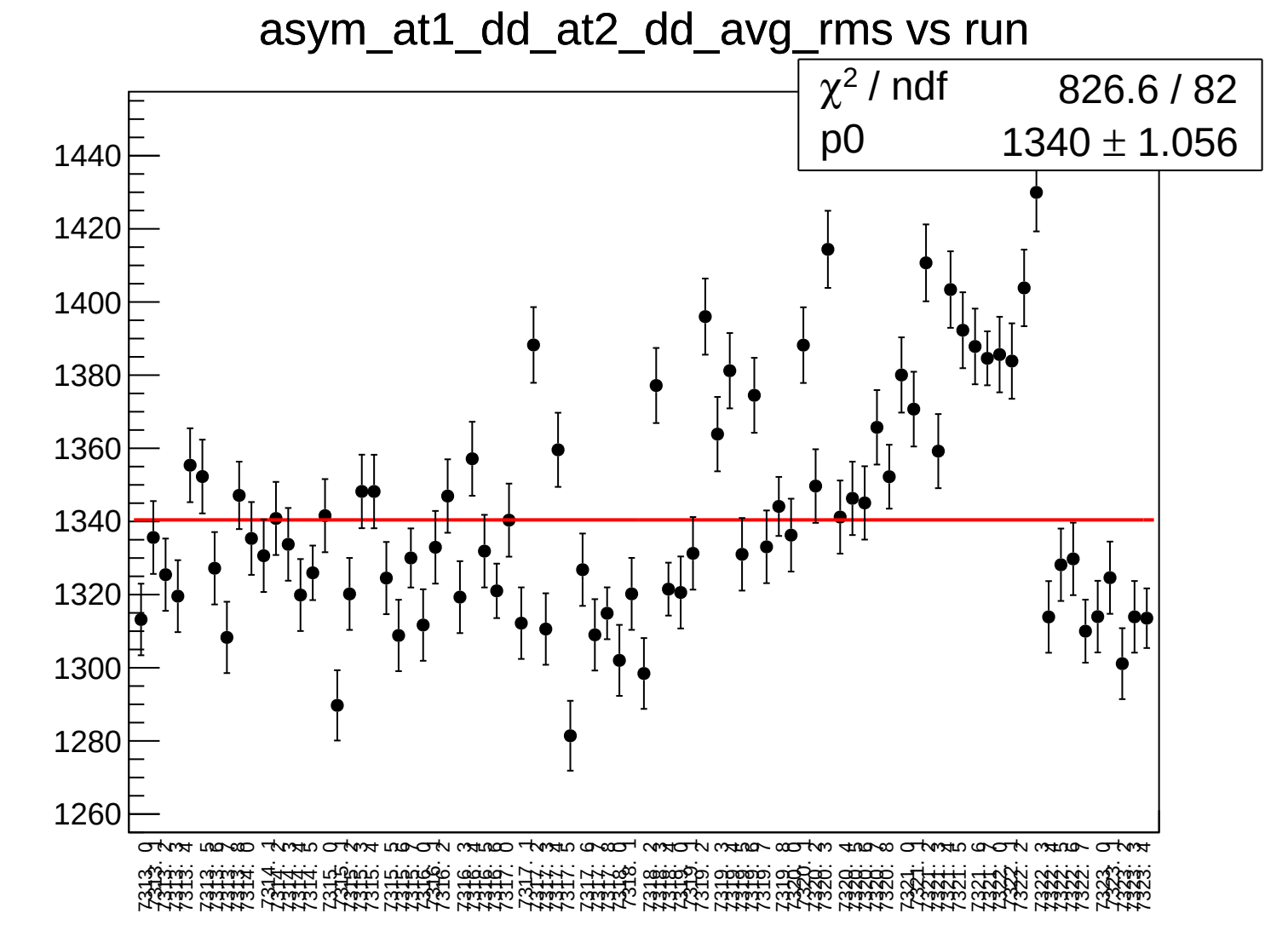

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1049 / 82
p0 1284 ± 1.012
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

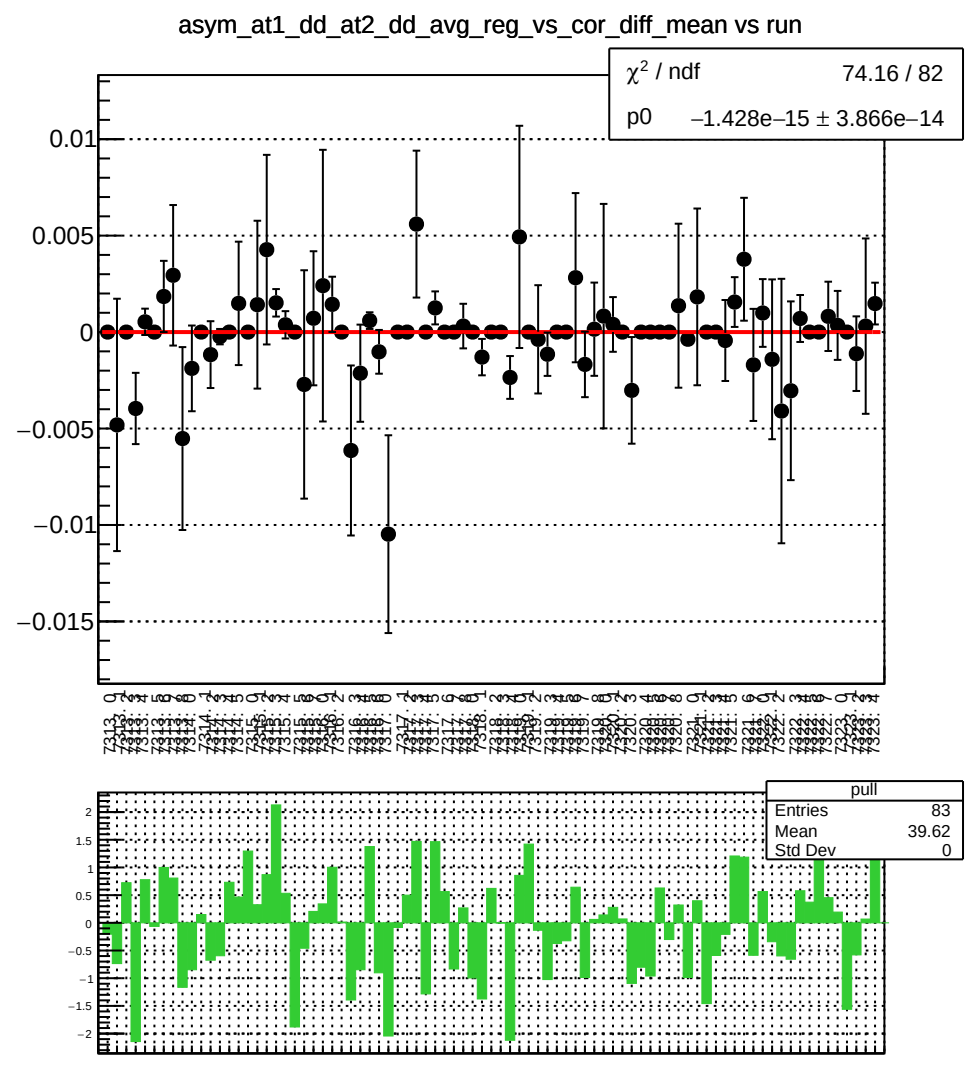

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 56.02 / 82
p0 6.398 ± 566.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −32.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

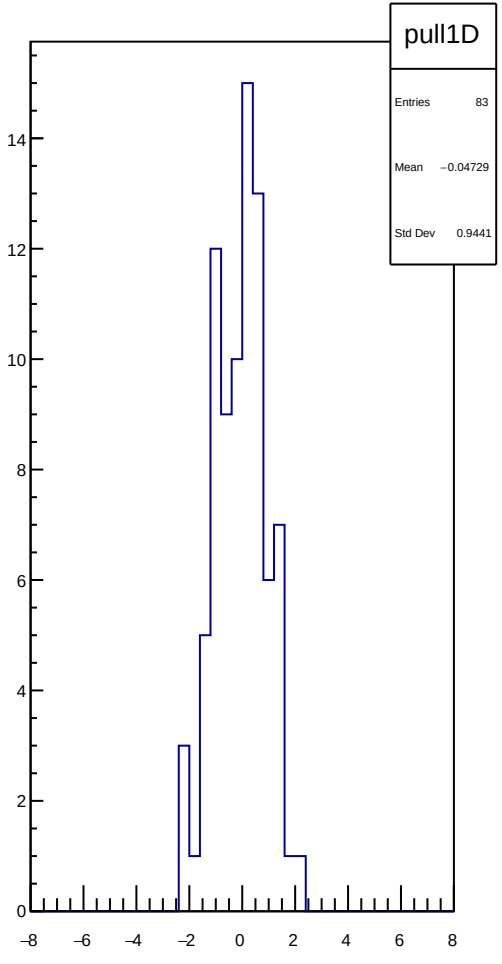

pull1D
Entries 83
Mean −0.0157
Std Dev 0.8214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

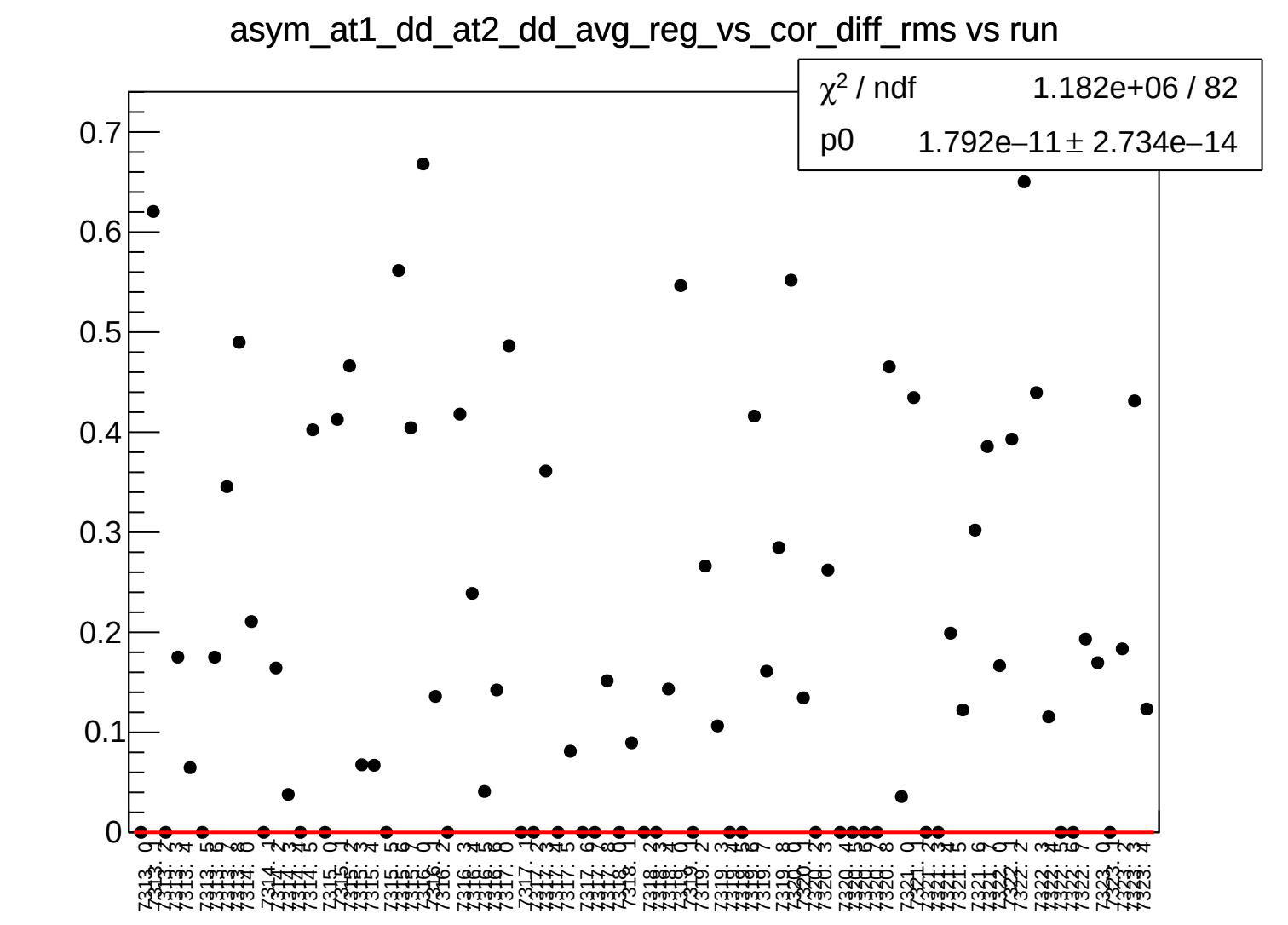

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3319 / 82
p0 508.3 ± 0.4008
560
540
520
500
480
460

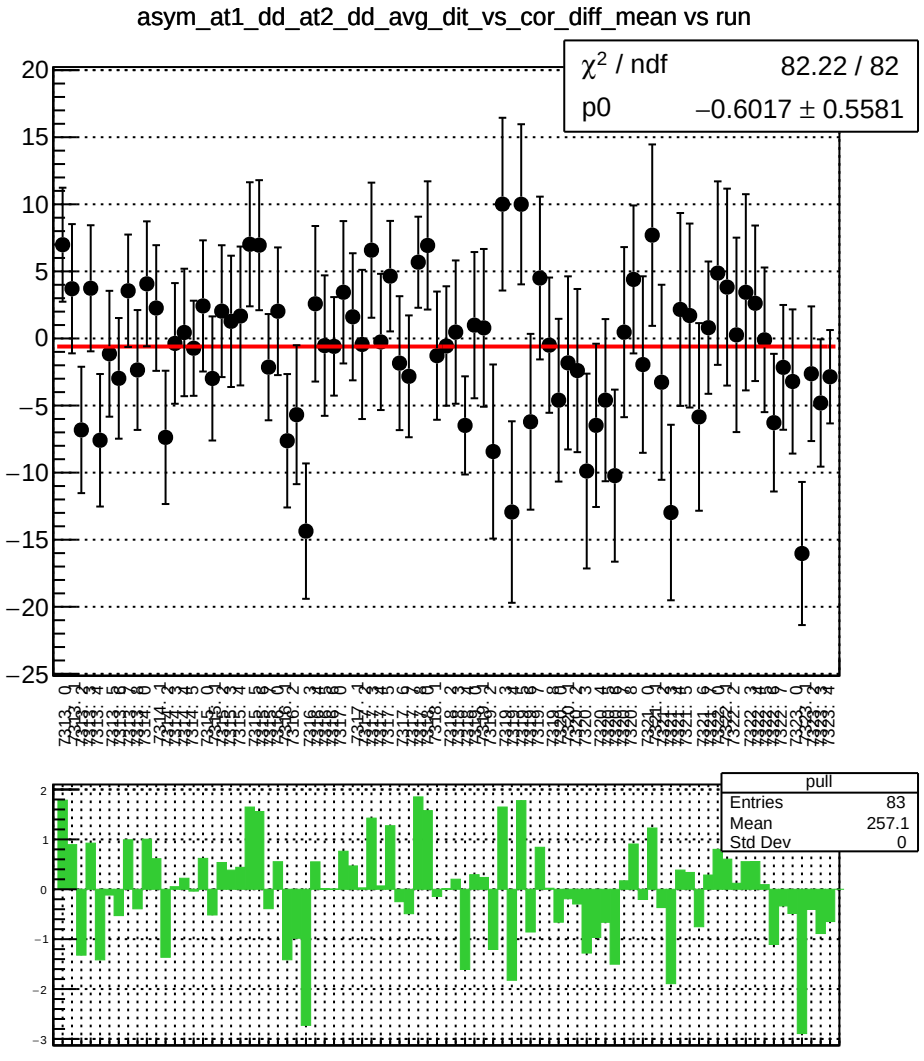

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.37 / 82
p0 819.3 ± 1494
pull
Entries 83
Mean 1849
Std Dev 0
pull1D
Entries 83
Mean −0.00258
Std Dev 1.049

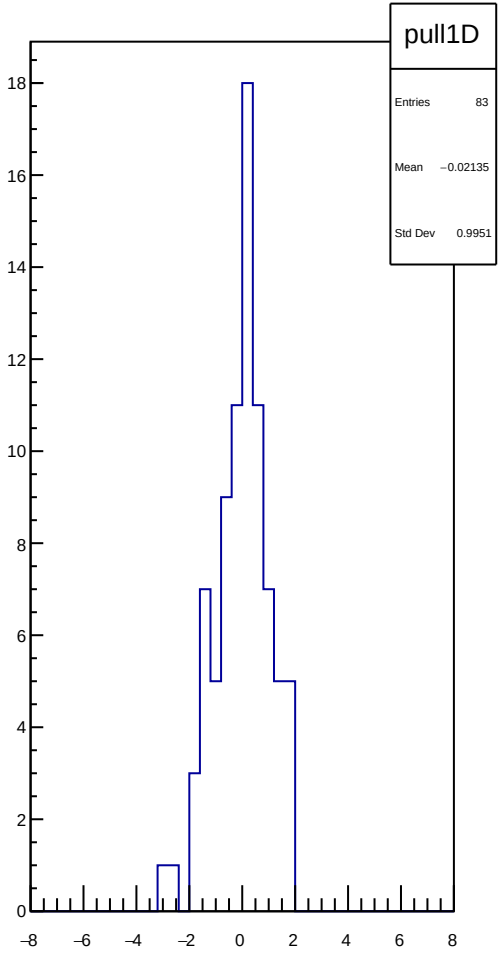

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 826.6 / 82
p0 1340 ± 1.056
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

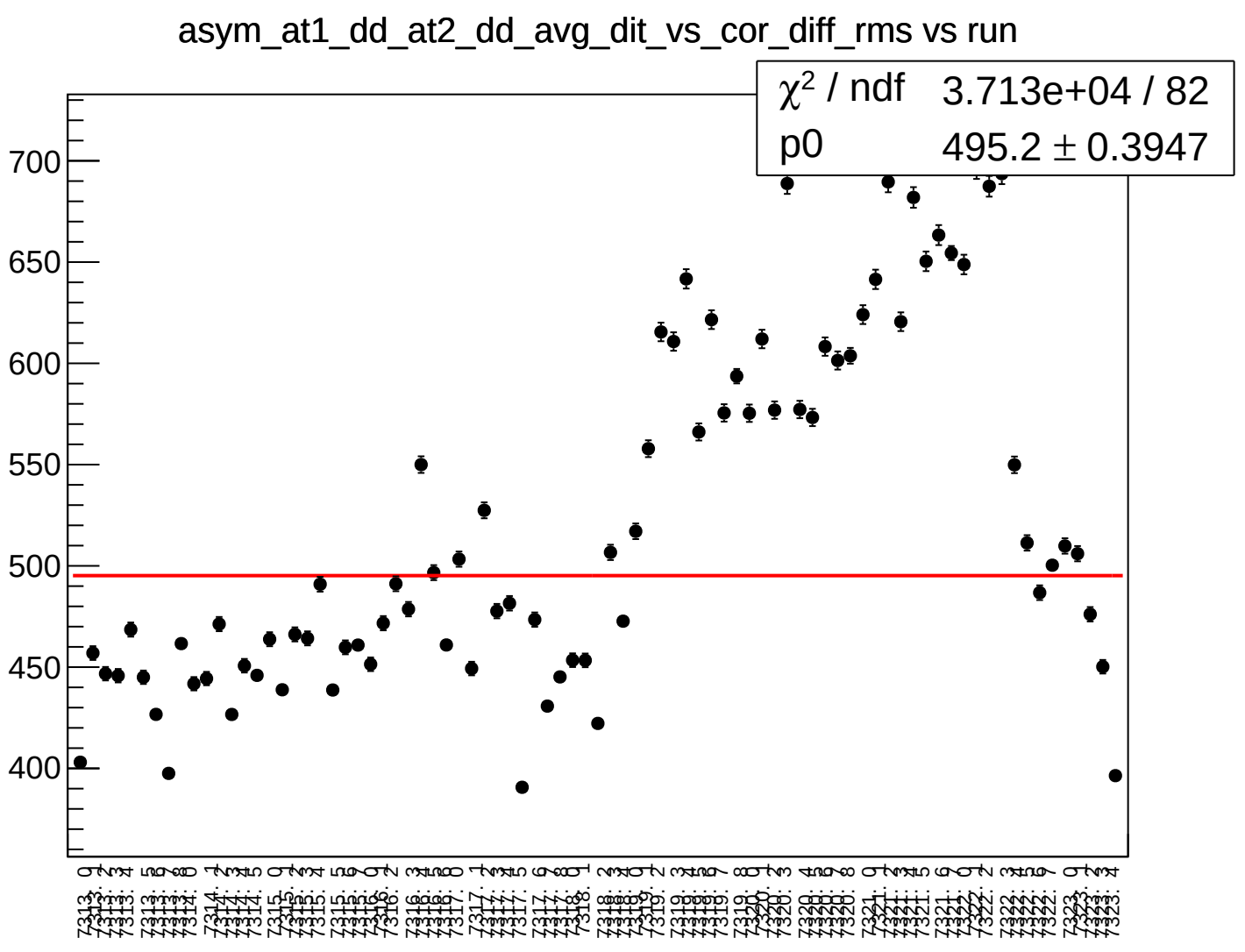

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.16 / 82
p0 −1.428e−15 ± 3.866e−14
pull
Entries 83
Mean 39.62
Std Dev 0

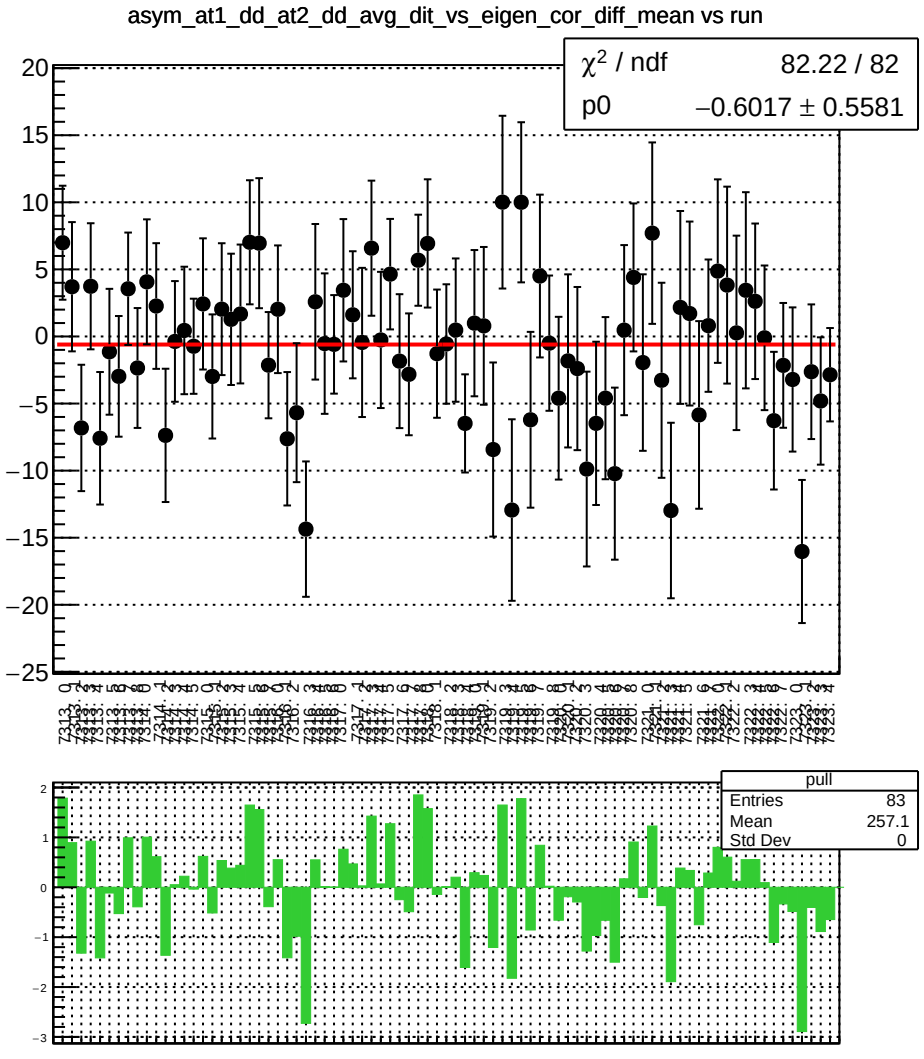

pull1D
Entries 83
Mean −0.04729
Std Dev 0.9441

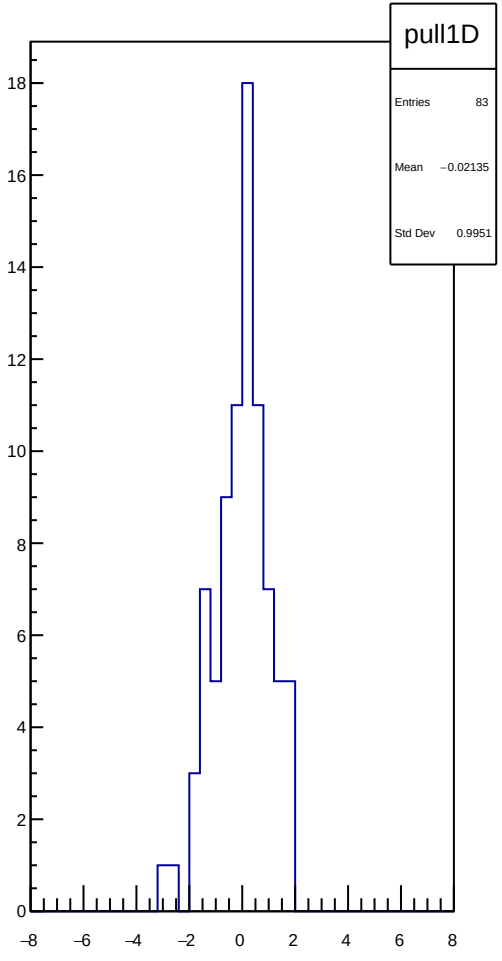

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 82
p0 1.792e−11 ± 2.734e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

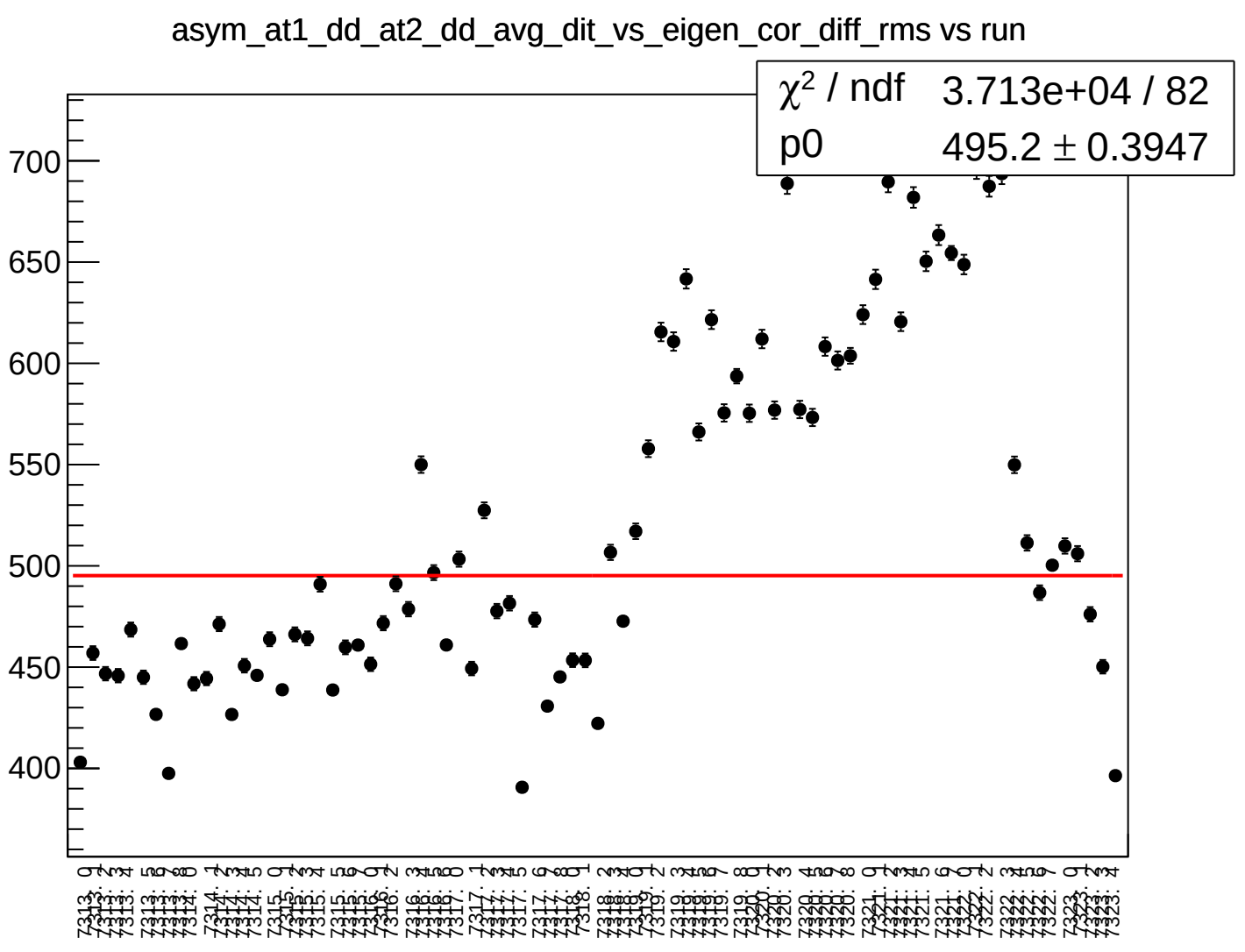

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0

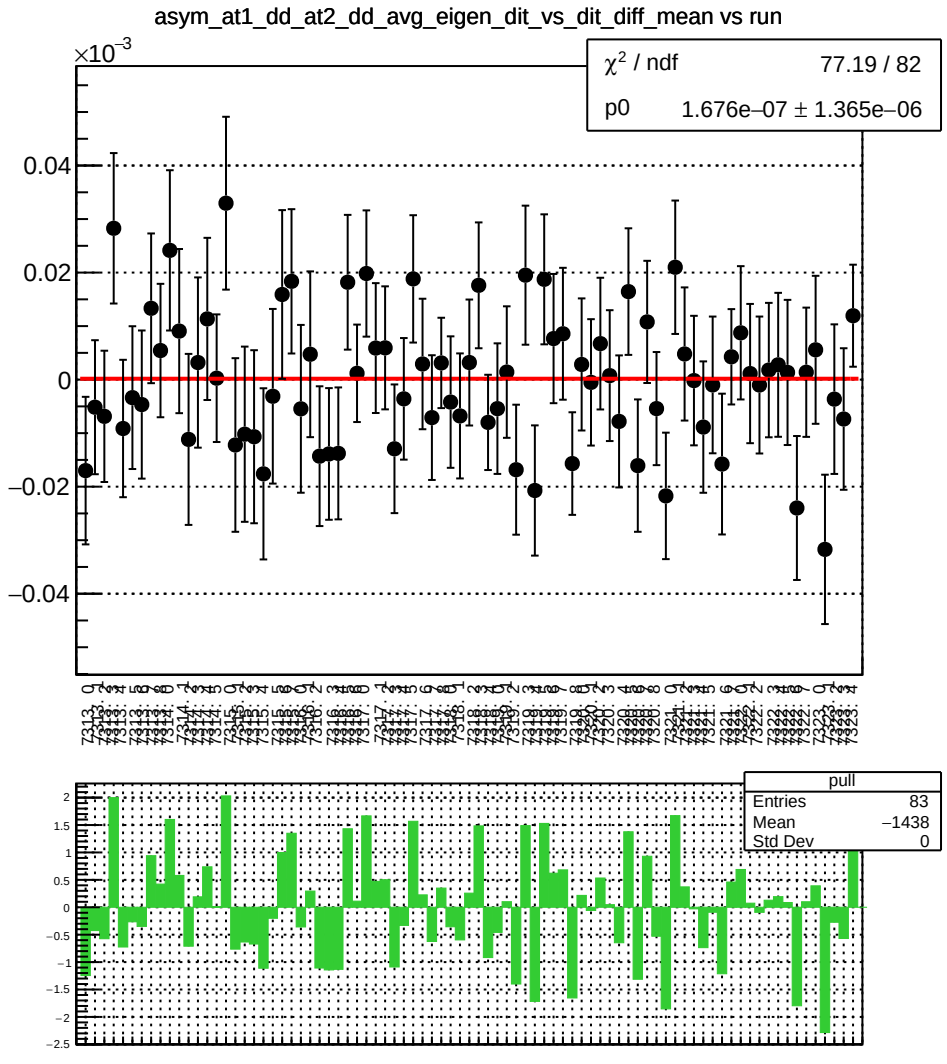

pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

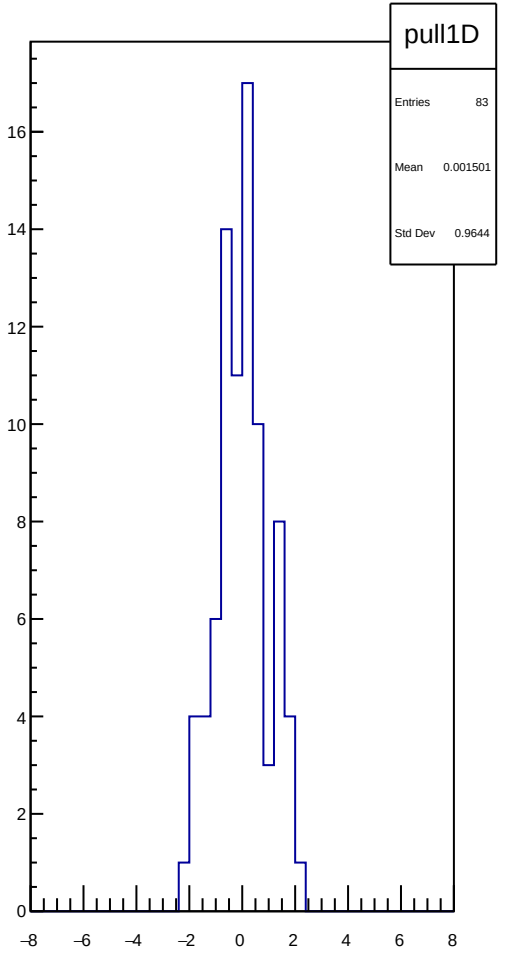

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

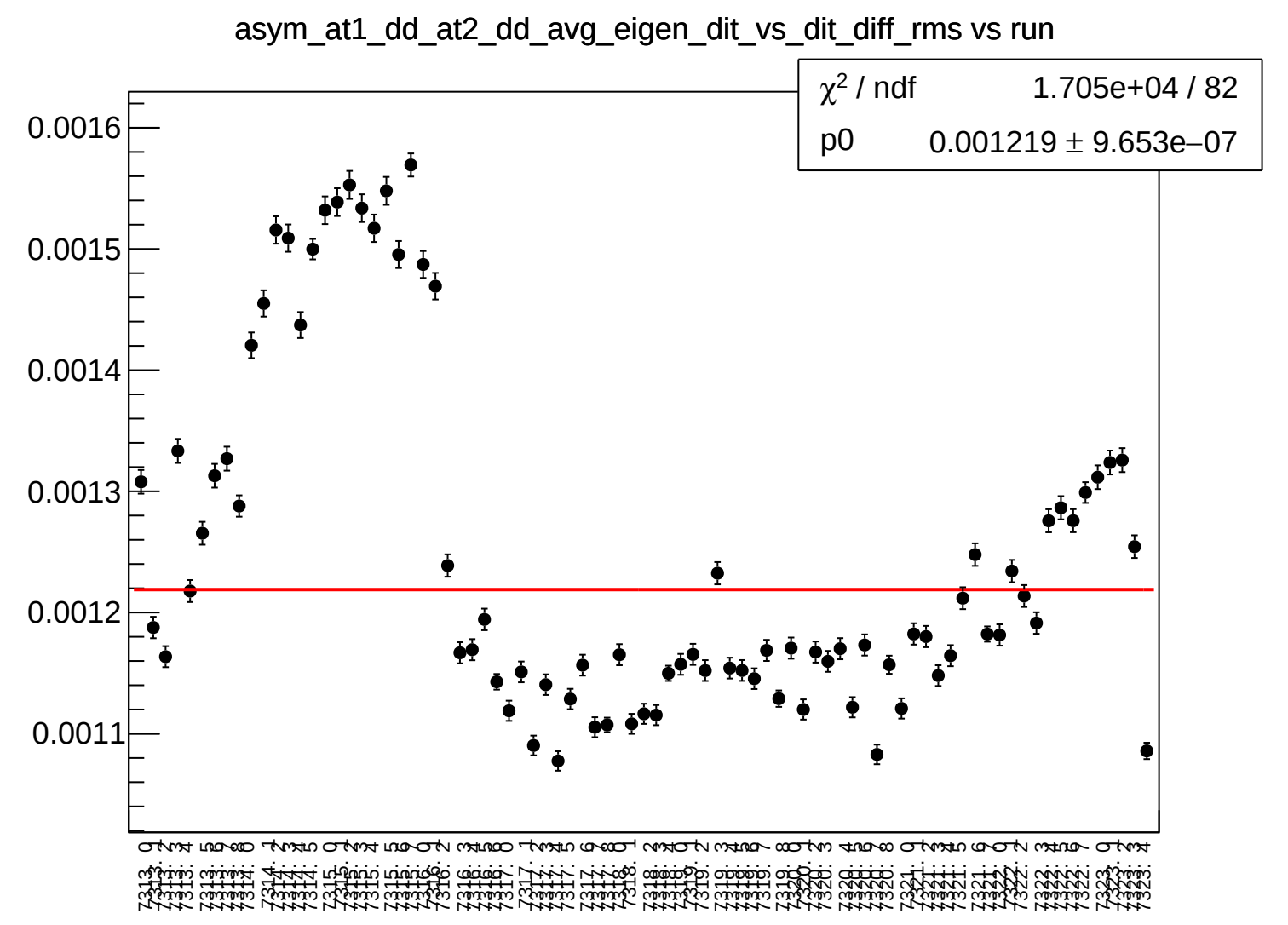

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0

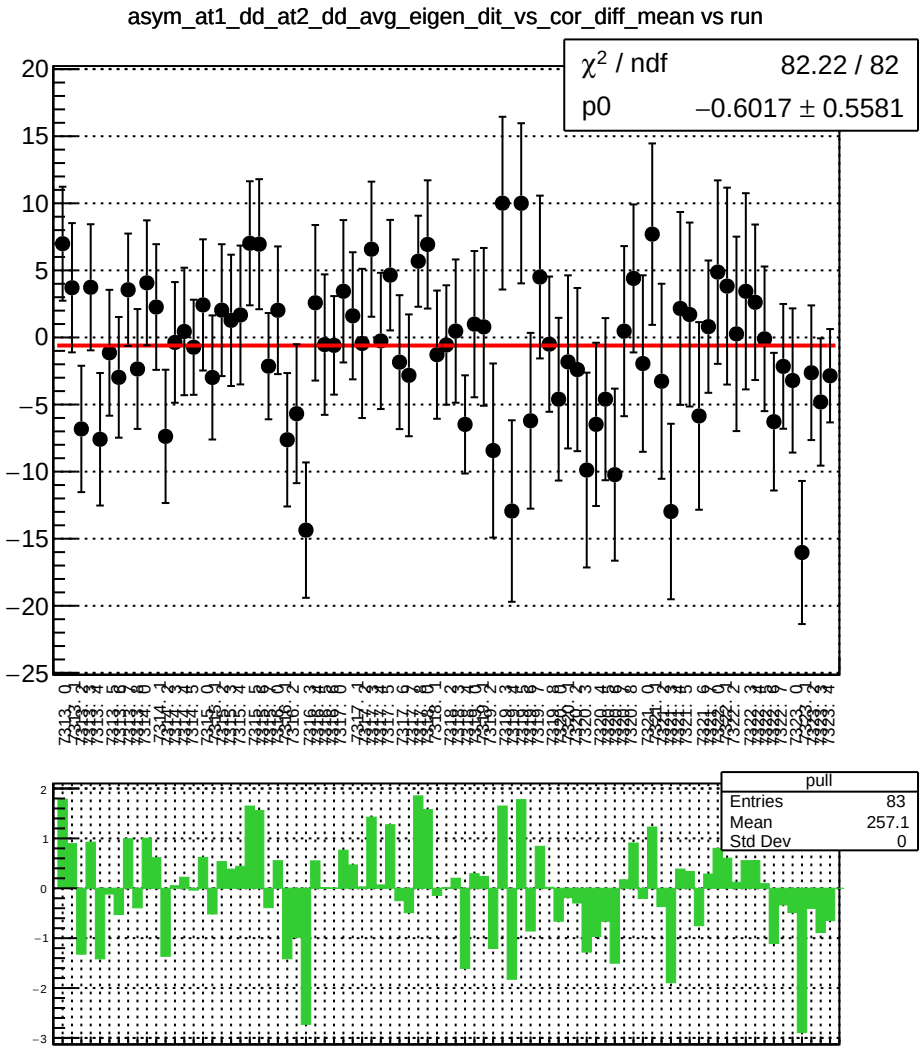

pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

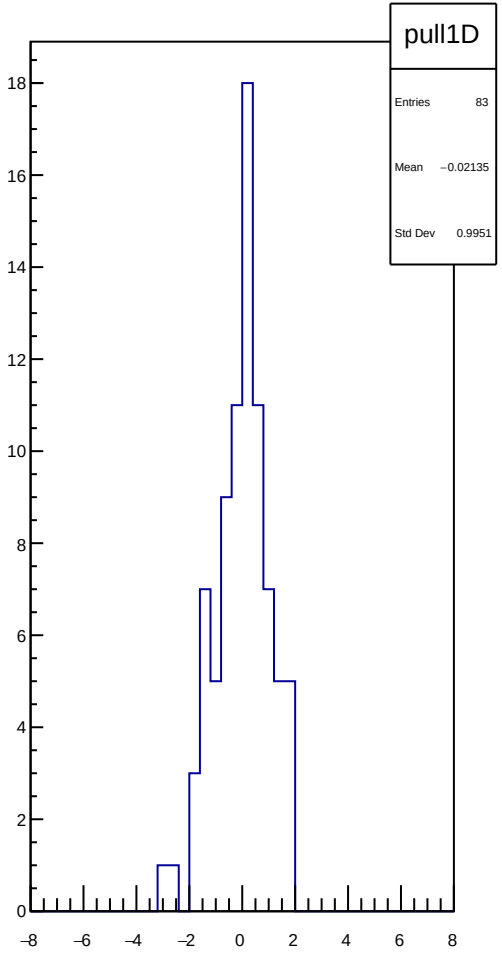

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

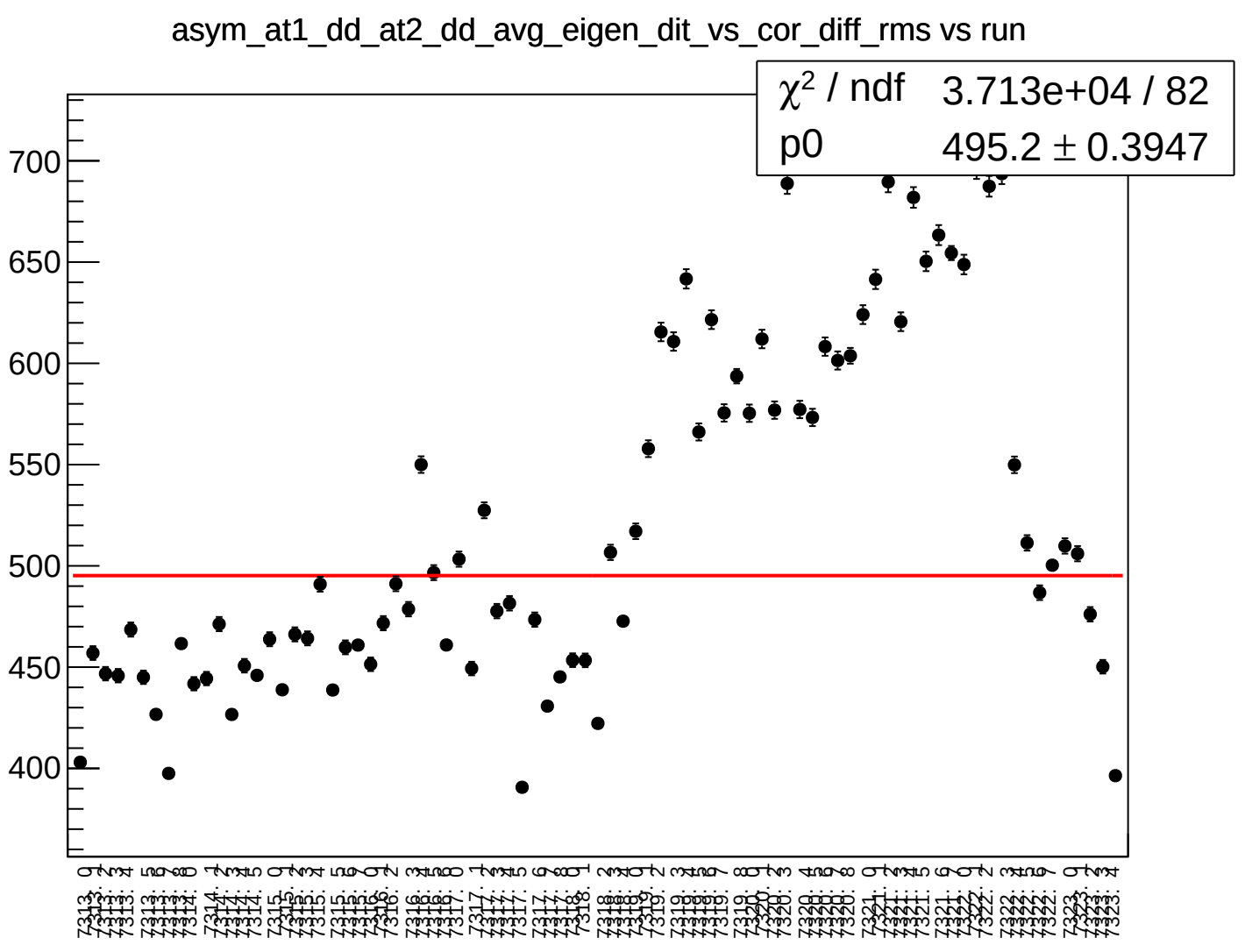

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.19 / 82
p0 1.676e−07 ± 1.365e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 83
Mean −1438
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

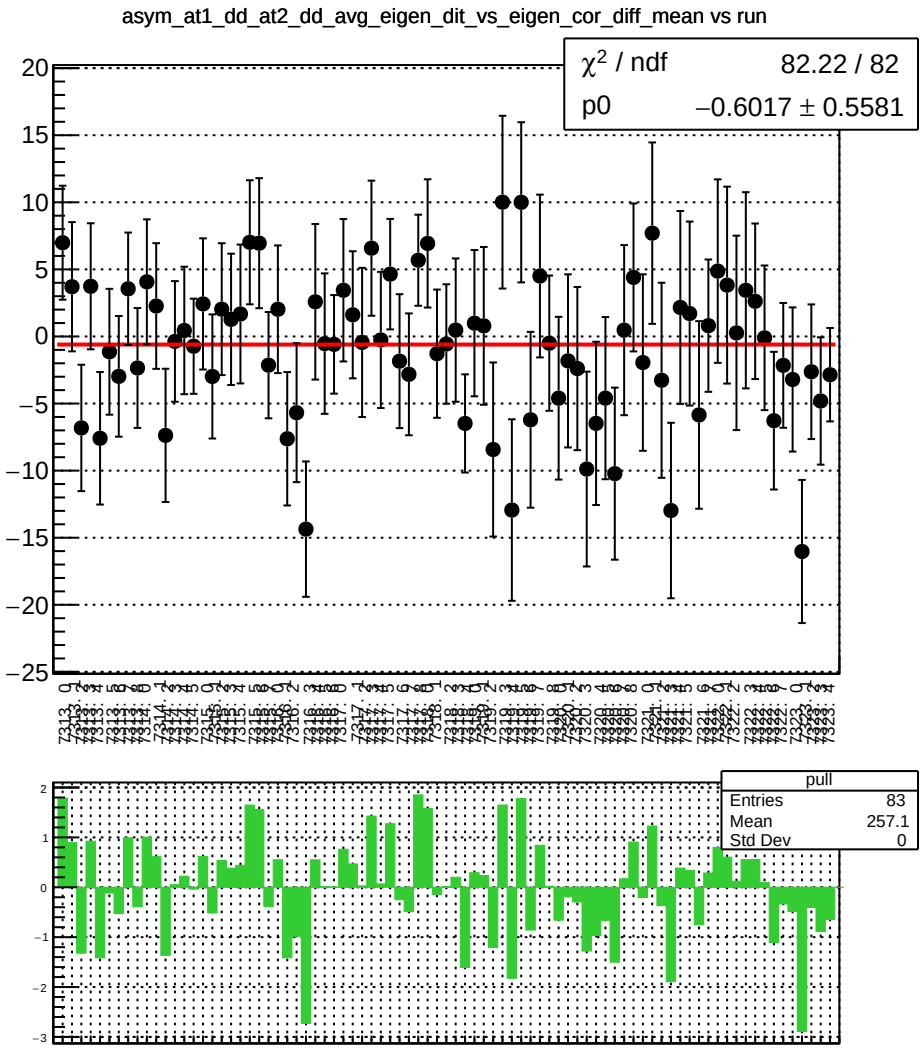

pull1D
Entries 83
Mean 0.001501
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

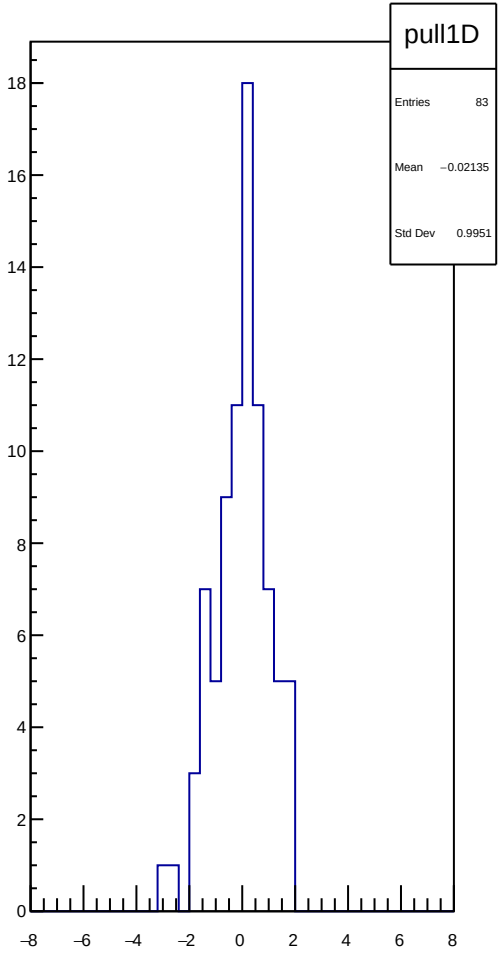

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.705e+04 / 82
p0 0.001219 ± 9.653e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

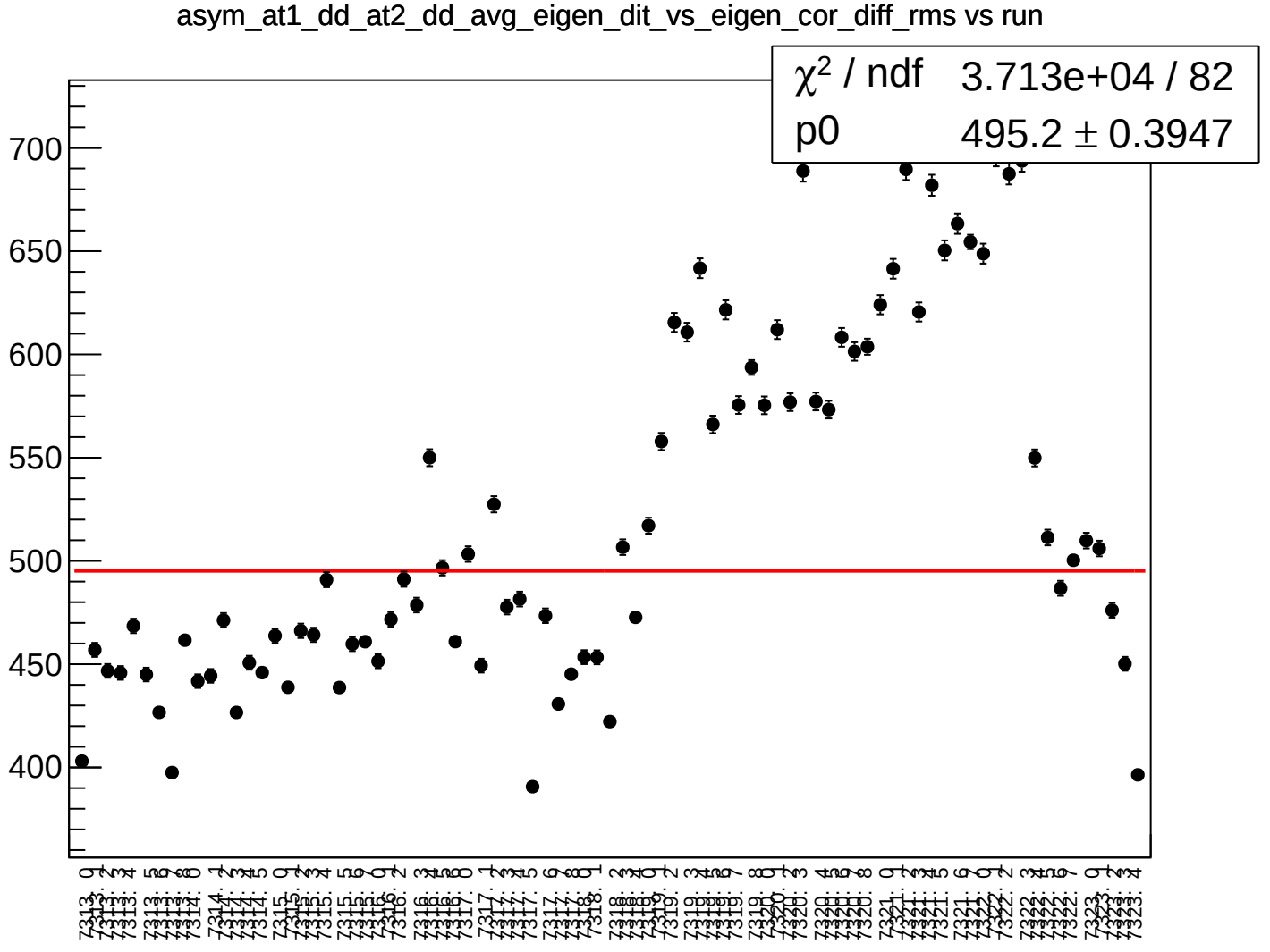

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0

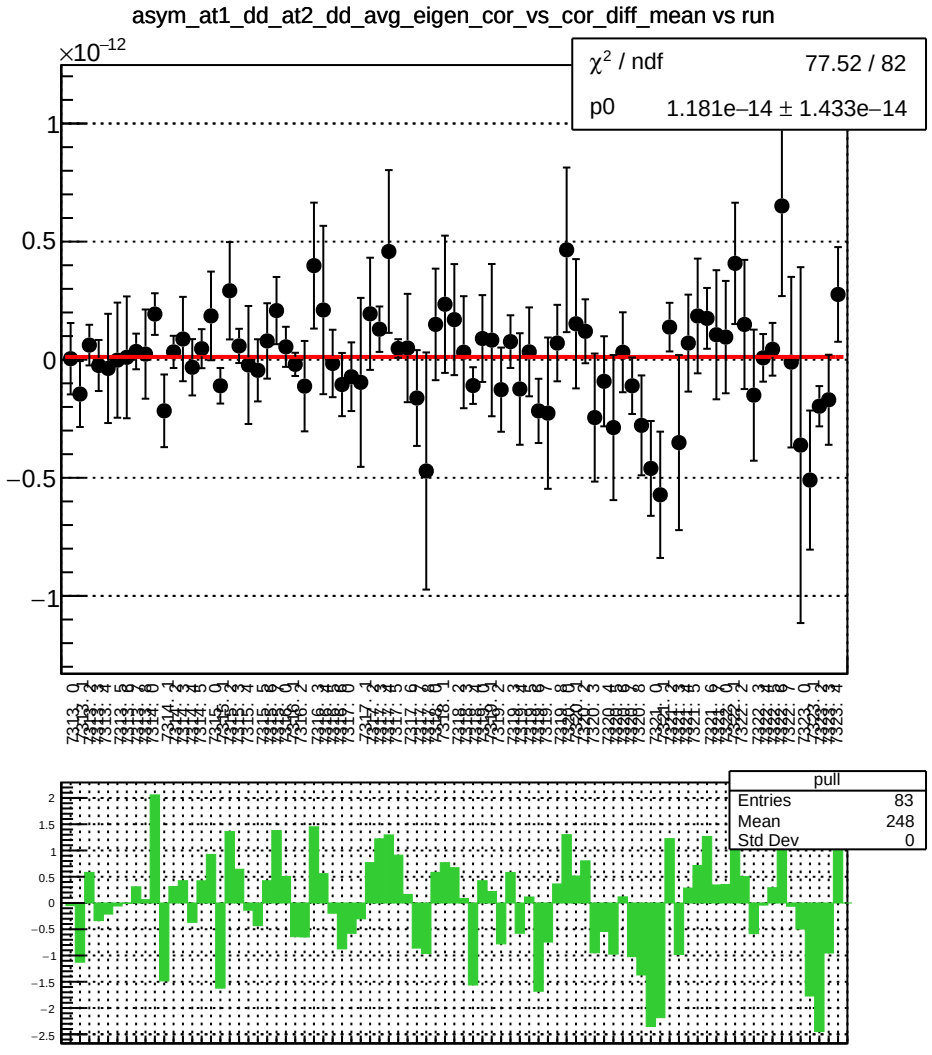

pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

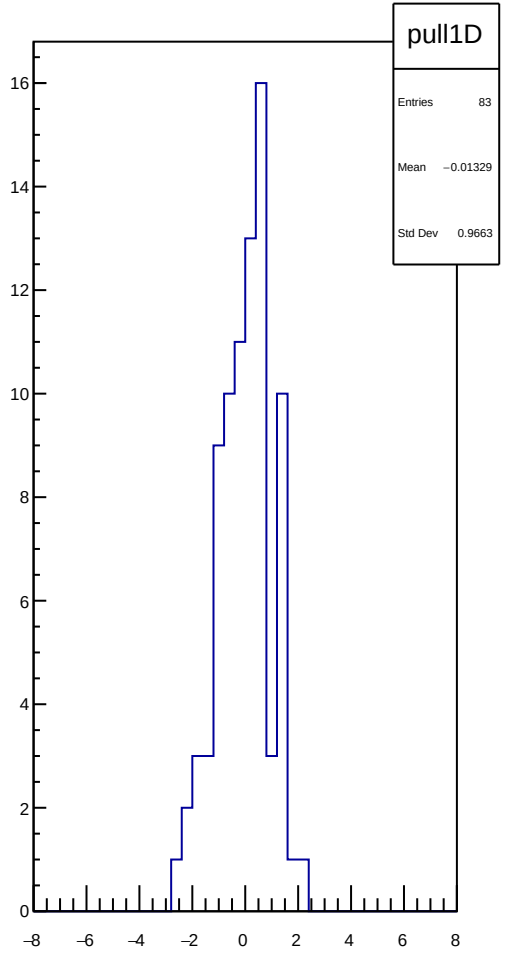

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

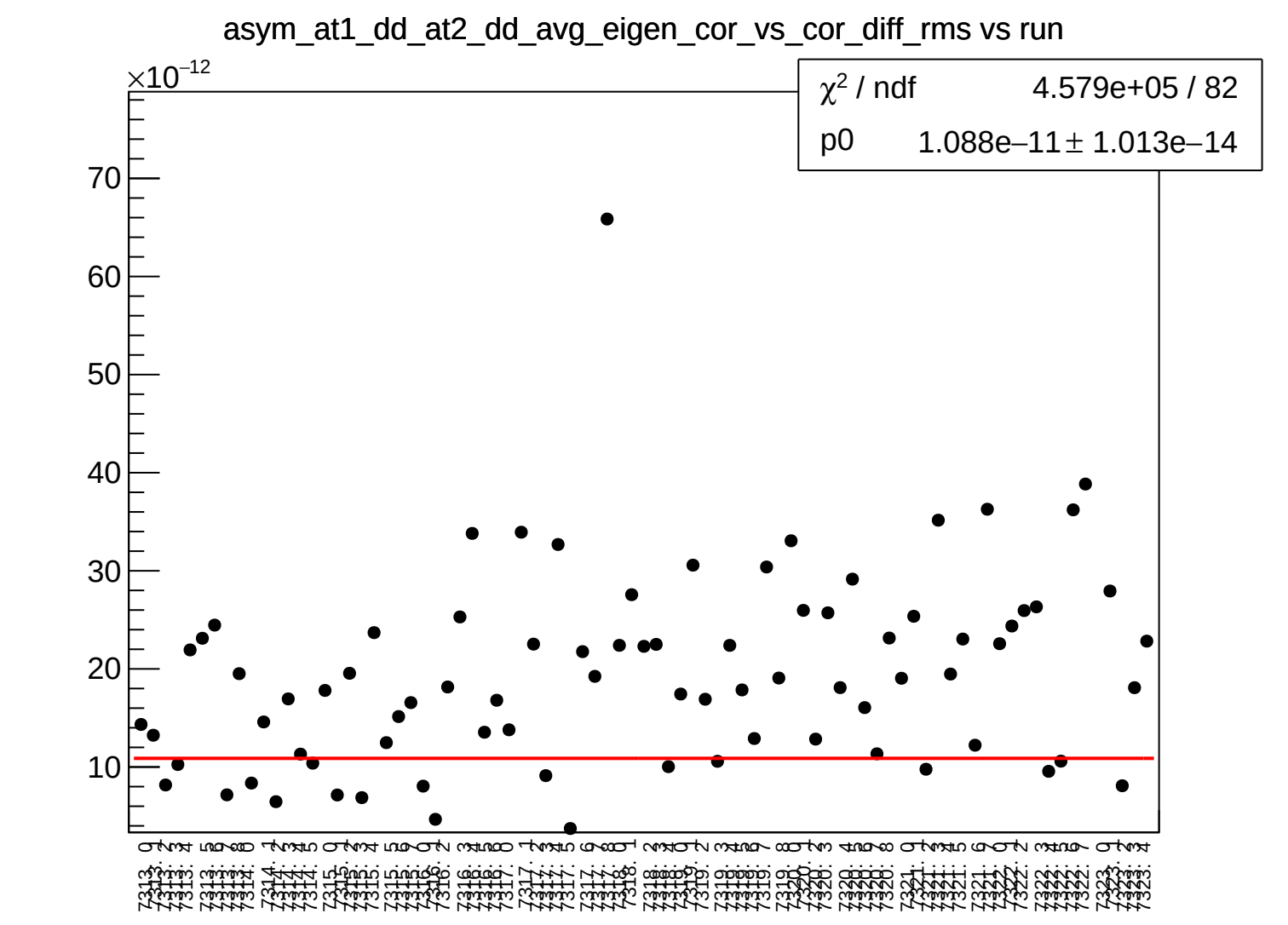

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 82
p0 −0.6017 ± 0.5581
pull
Entries 83
Mean 257.1
Std Dev 0

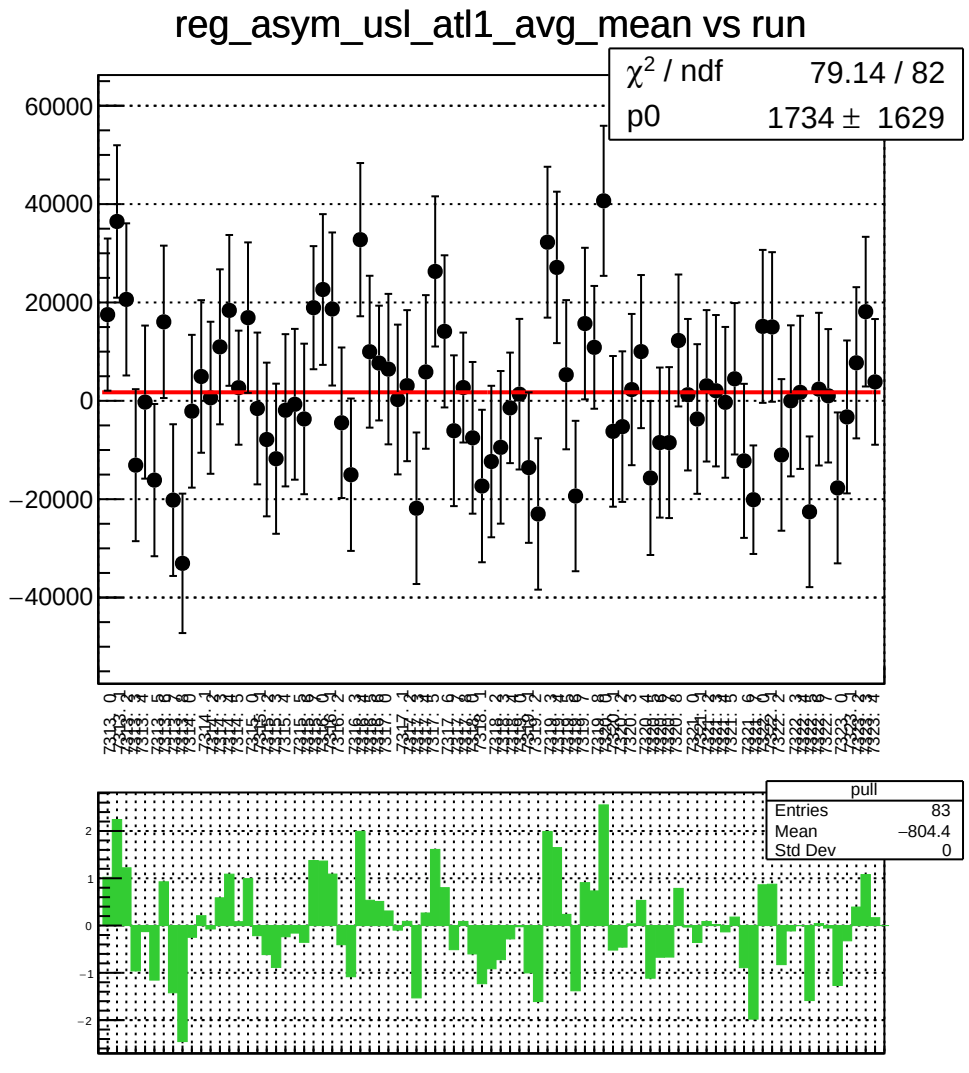

pull1D
Entries 83
Mean −0.02135
Std Dev 0.9951

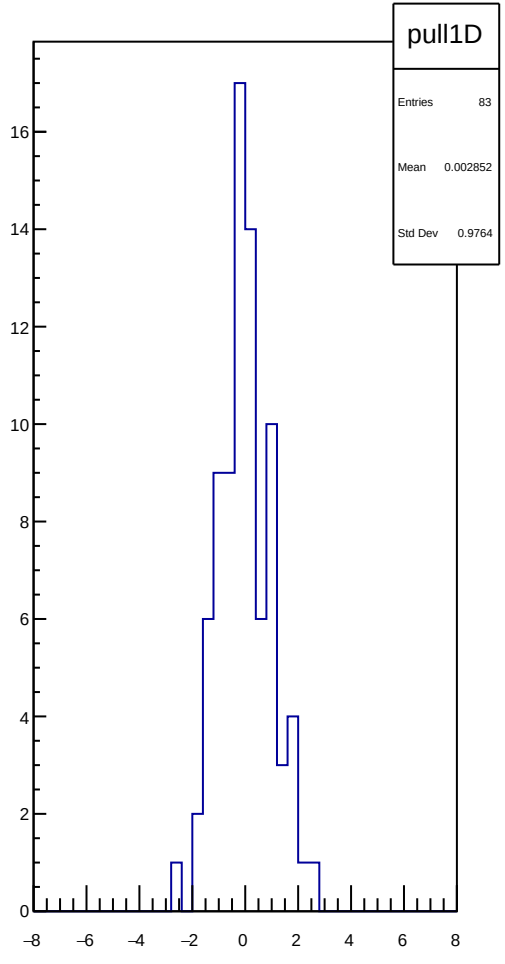

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.713e+04 / 82
p0 495.2 ± 0.3947
700
650
600
550
500
450
400

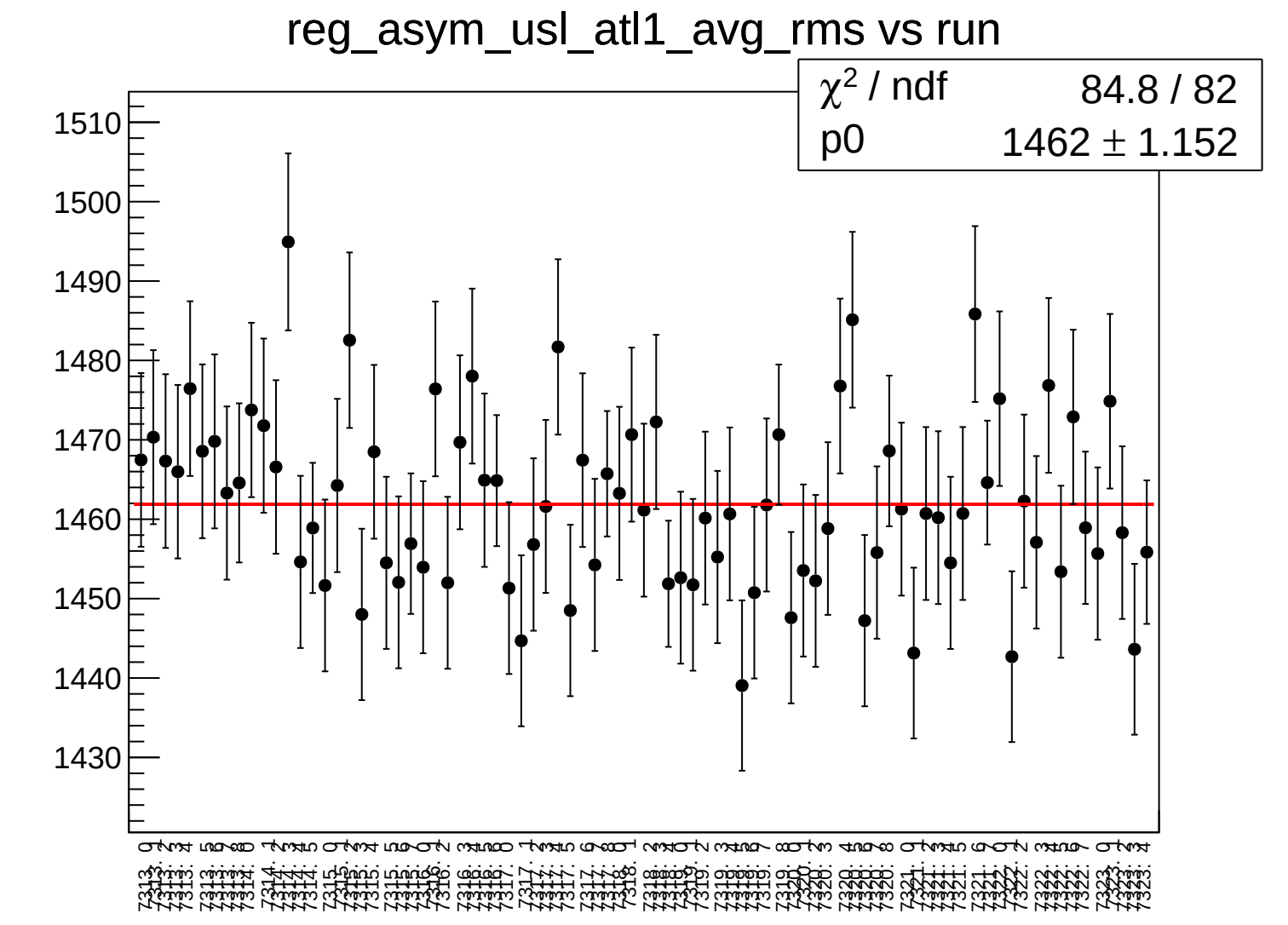

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.52 / 82
p0 1.181e−14 ± 1.433e−14
pull
Entries 83
Mean 248
Std Dev 0

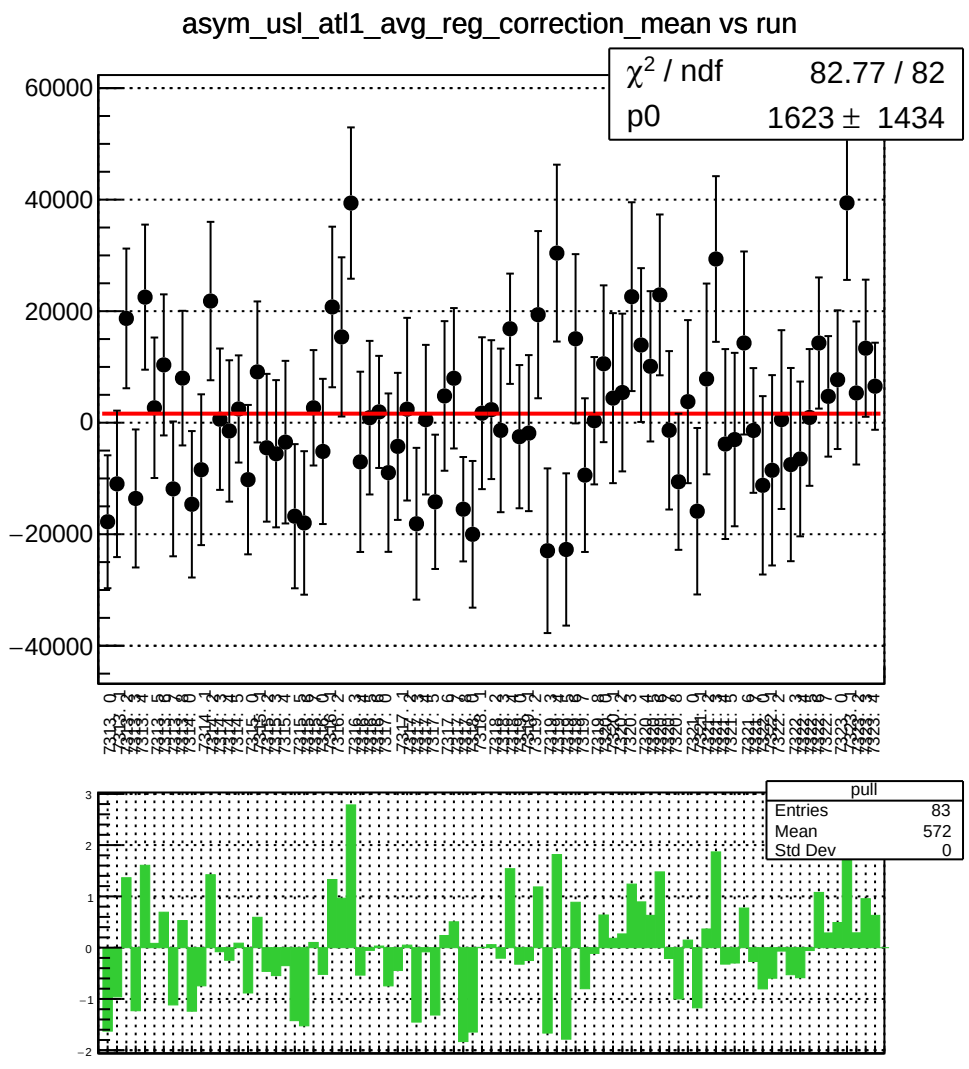

pull1D
Entries 83
Mean −0.01329
Std Dev 0.9663

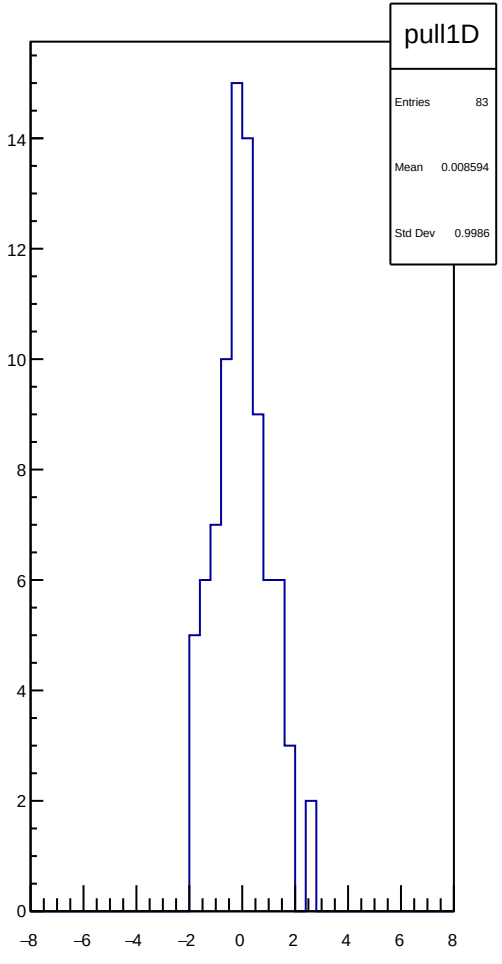

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.579e+05 / 82
p0 1.088e−11 ± 1.013e−14
70
60
50
40
30
20
10

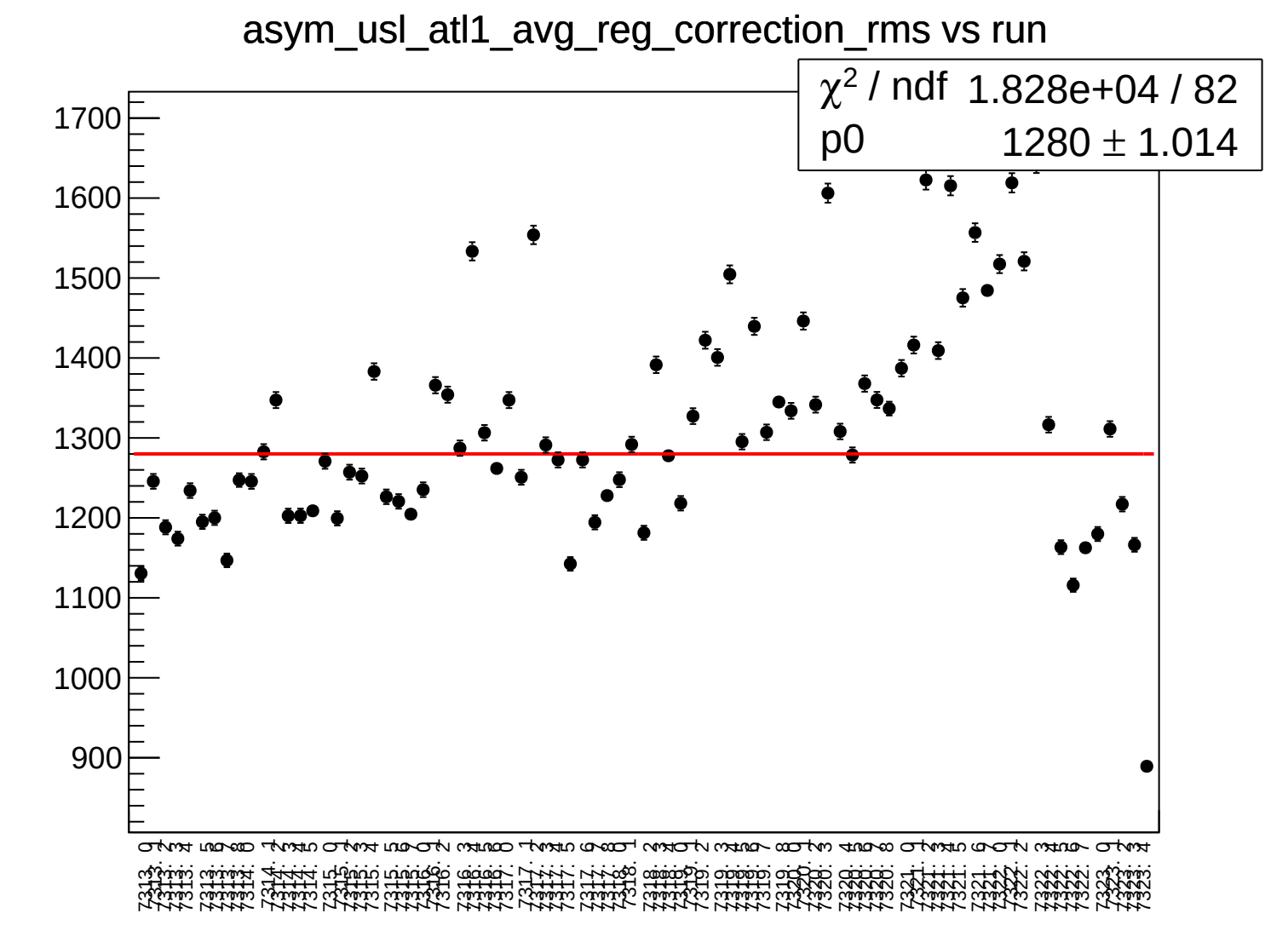

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.14 / 82
p0 1734 ± 1629
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −804.4
Std Dev 0
2
1
0
−1
−2

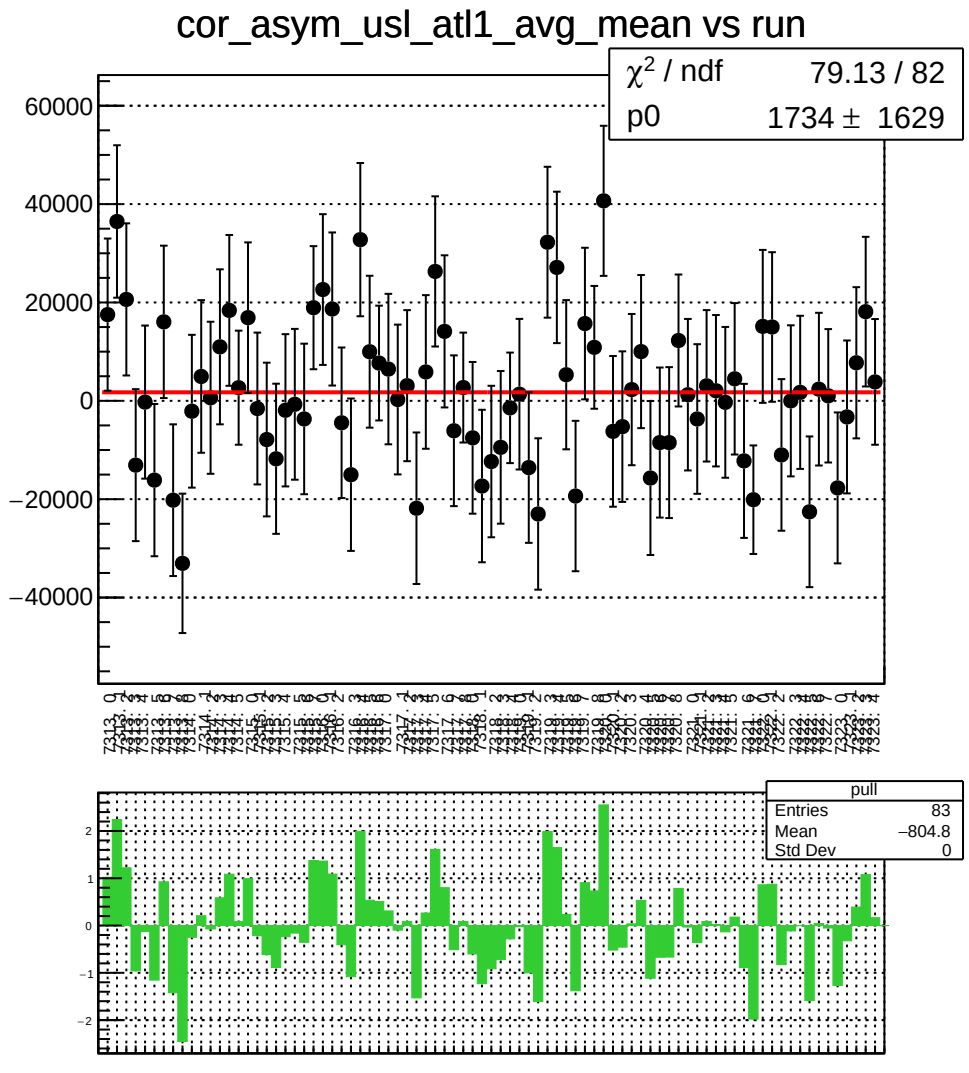

pull1D
Entries 83
Mean 0.002852
Std Dev 0.9764
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

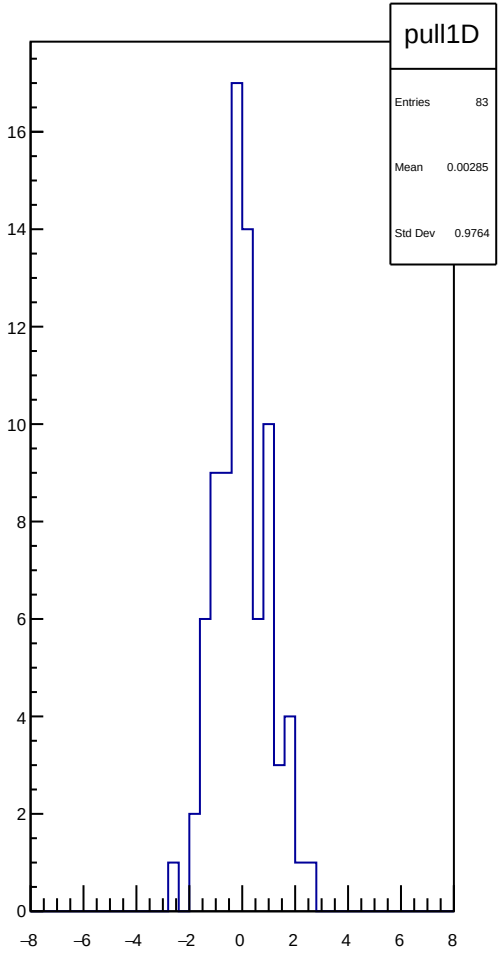

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.8 / 82
p0 1462 ± 1.152
1510
1500
1490
1480
1470
1460
1450
1440
1430

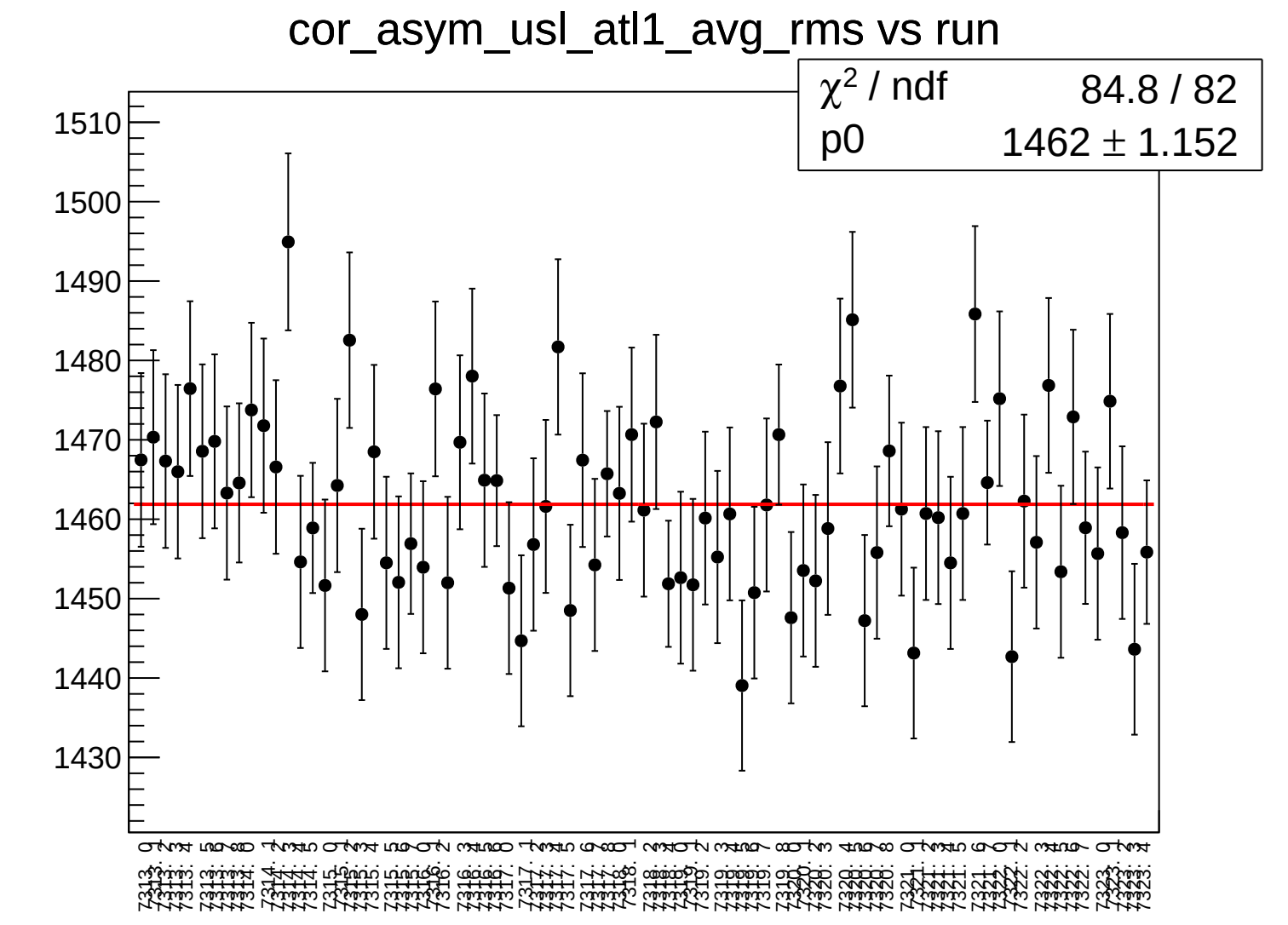

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 82.77 / 82
p0 1623 ± 1434
pull
Entries 83
Mean 572
Std Dev 0

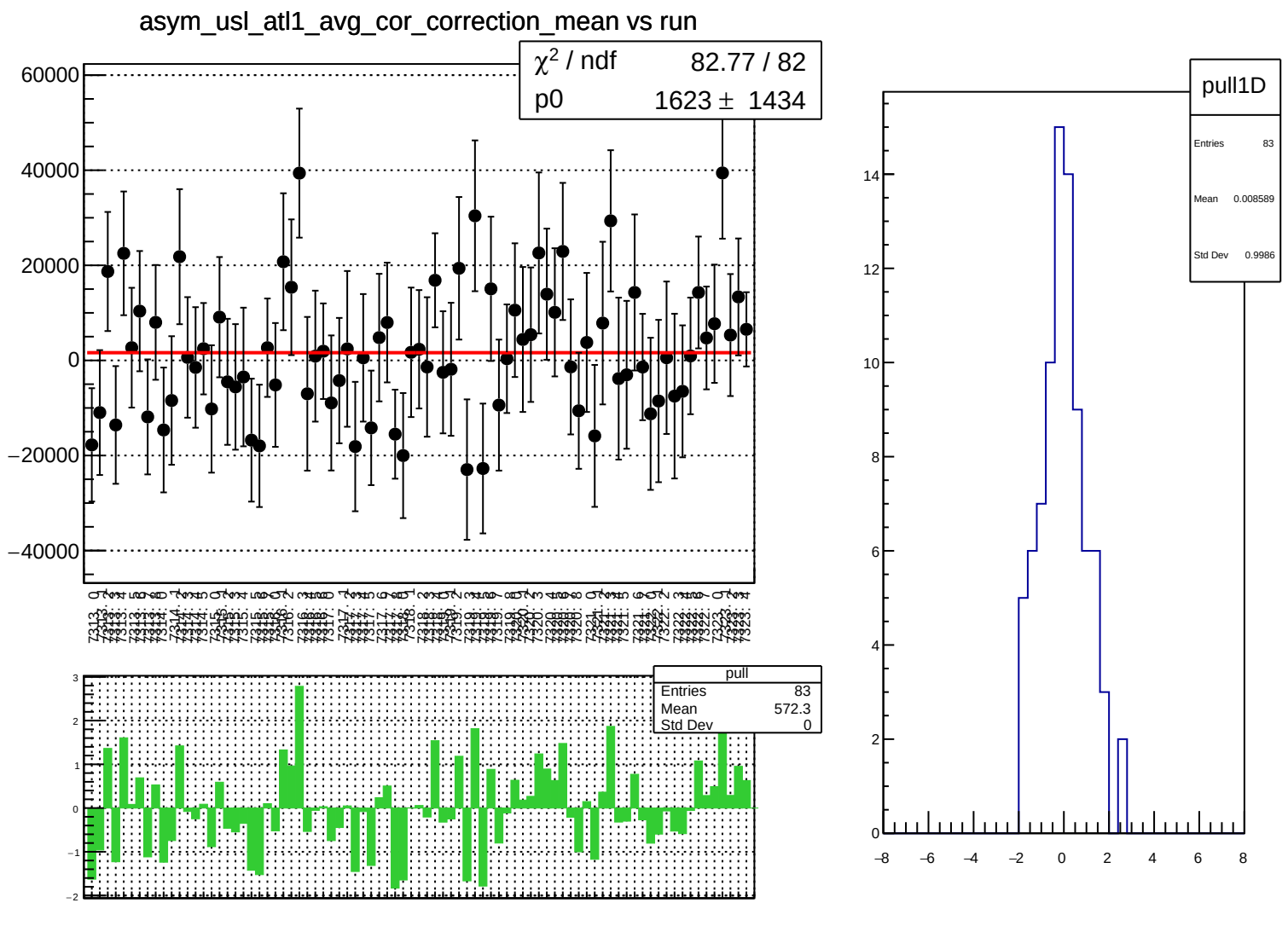

pull1D
Entries 83
Mean 0.008594
Std Dev 0.9986

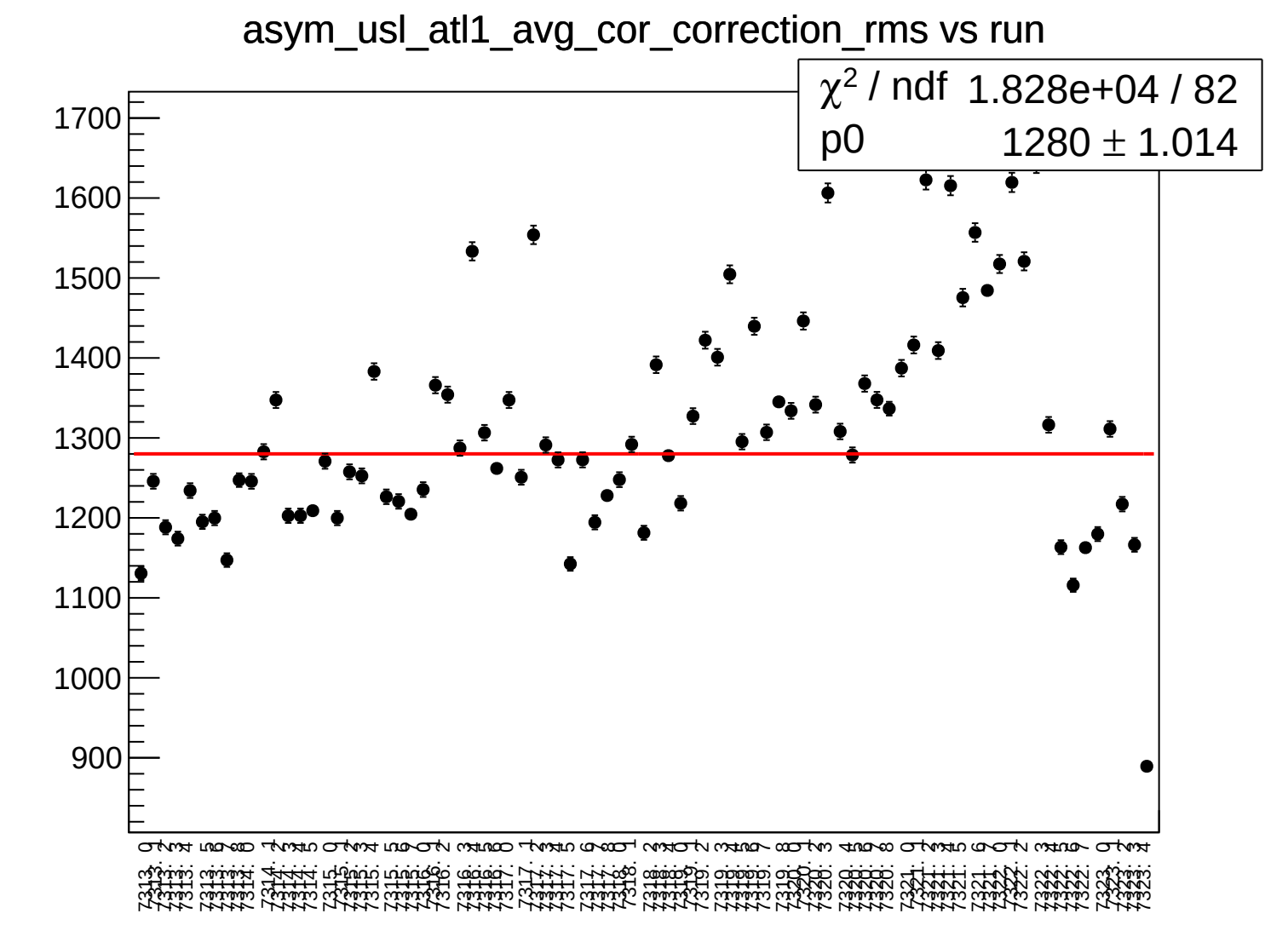

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.828e+04 / 82
p0 1280 ± 1.014
1700
1600
1500
1400
1300
1200
1100
1000
900

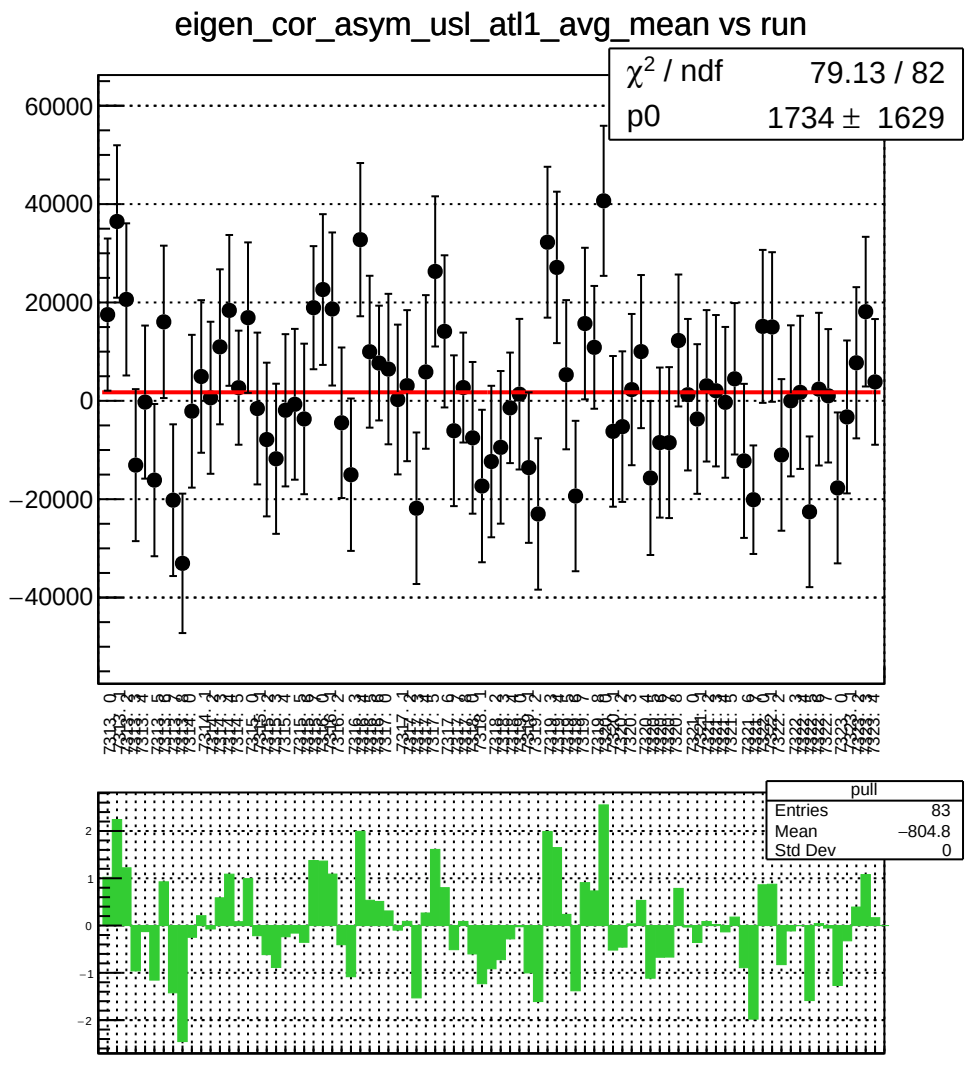

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.13 / 82
p0 1734 ± 1629
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −804.8
Std Dev 0
2
1
0
−1
−2

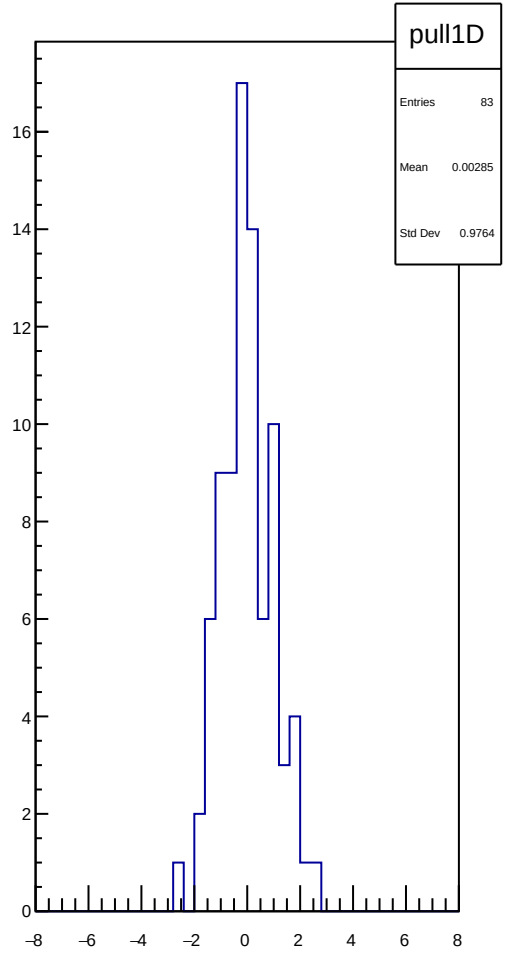

pull1D
Entries 83
Mean 0.00285
Std Dev 0.9764
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

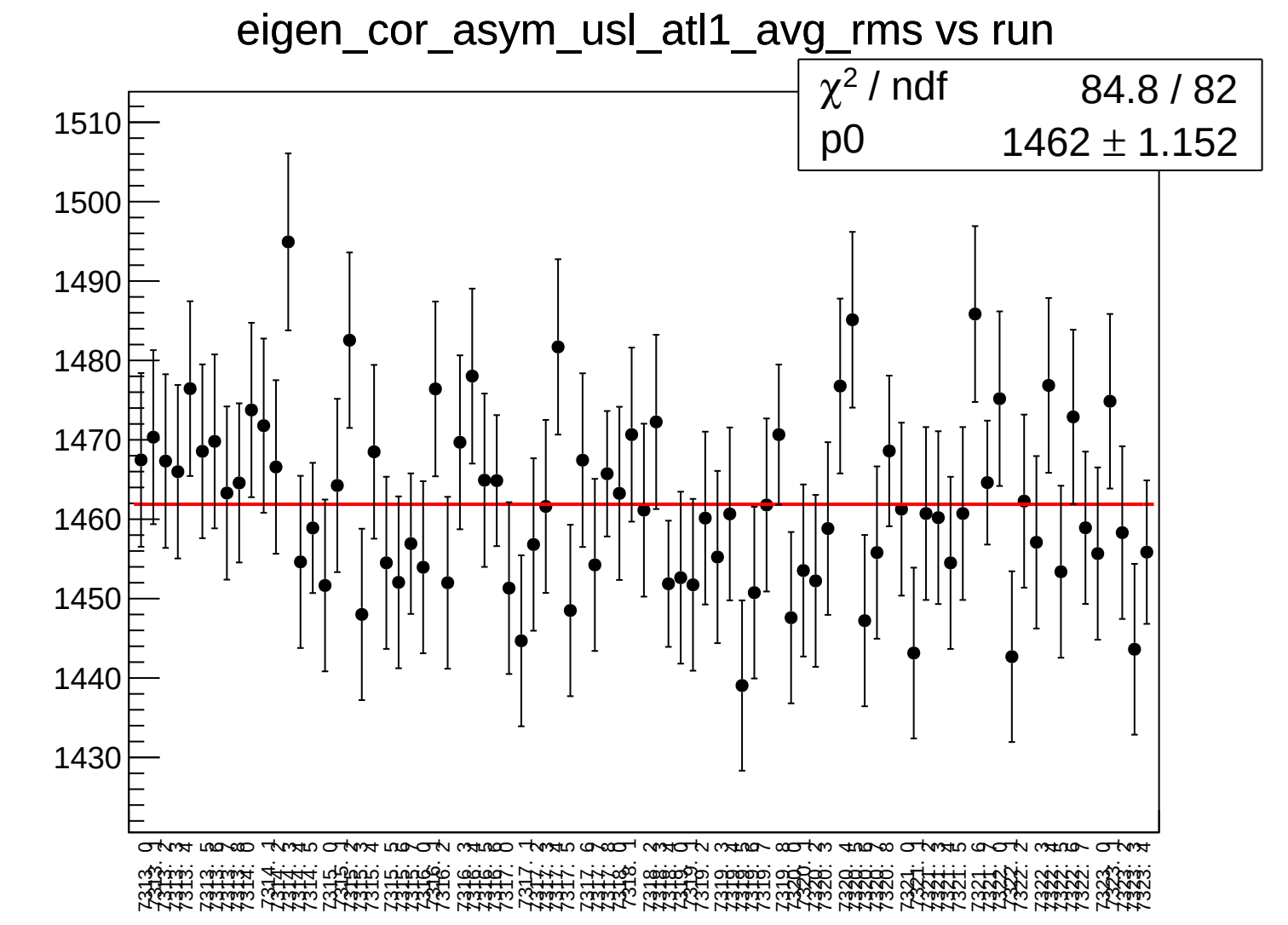

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.8 / 82
p0 1462 ± 1.152
1510
1500
1490
1480
1470
1460
1450
1440
1430

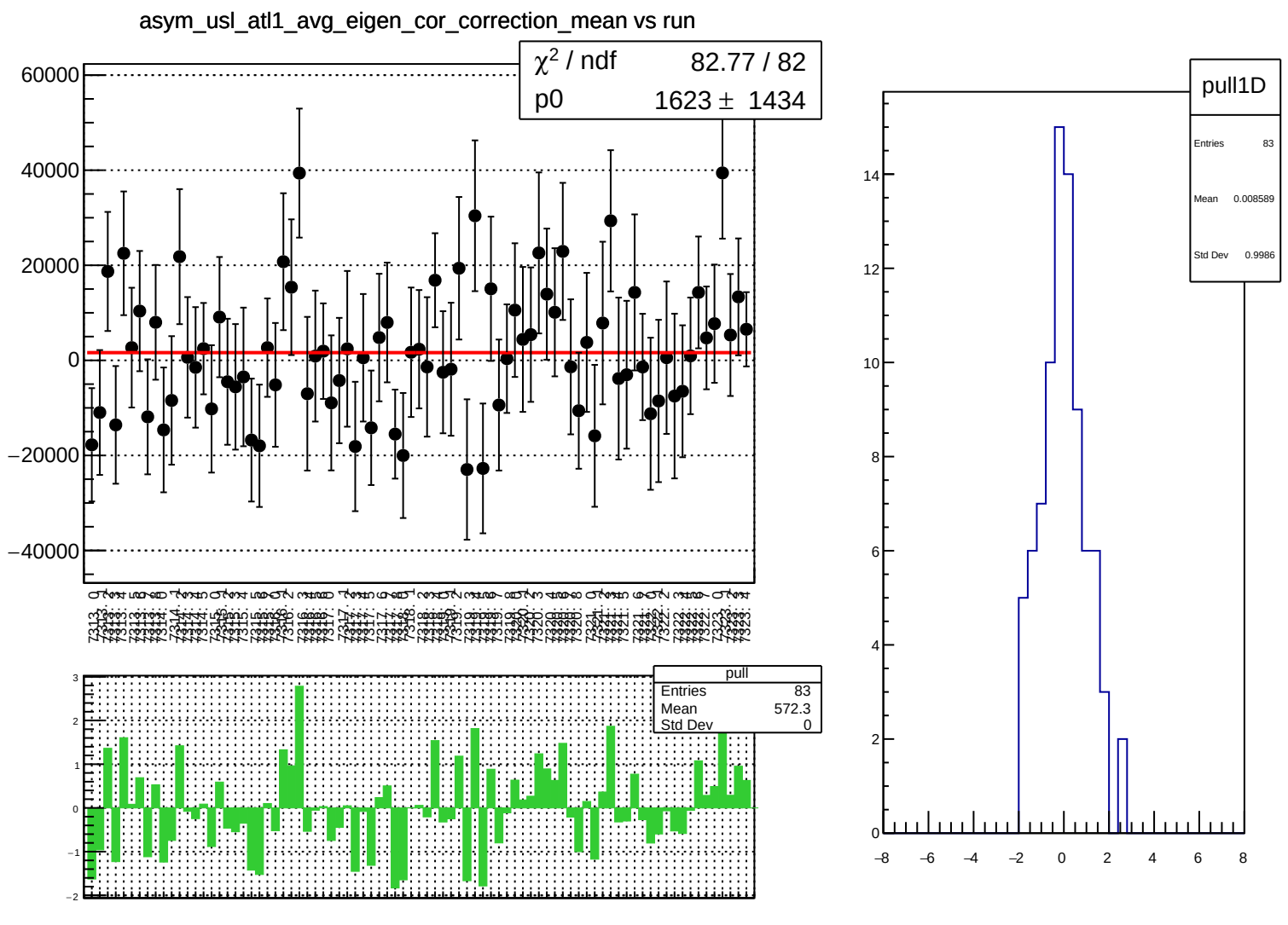

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 82.77 / 82
p0 1623 ± 1434
pull
Entries 83
Mean 572.3
Std Dev 0
pull1D
Entries 83
Mean 0.008589
Std Dev 0.9986

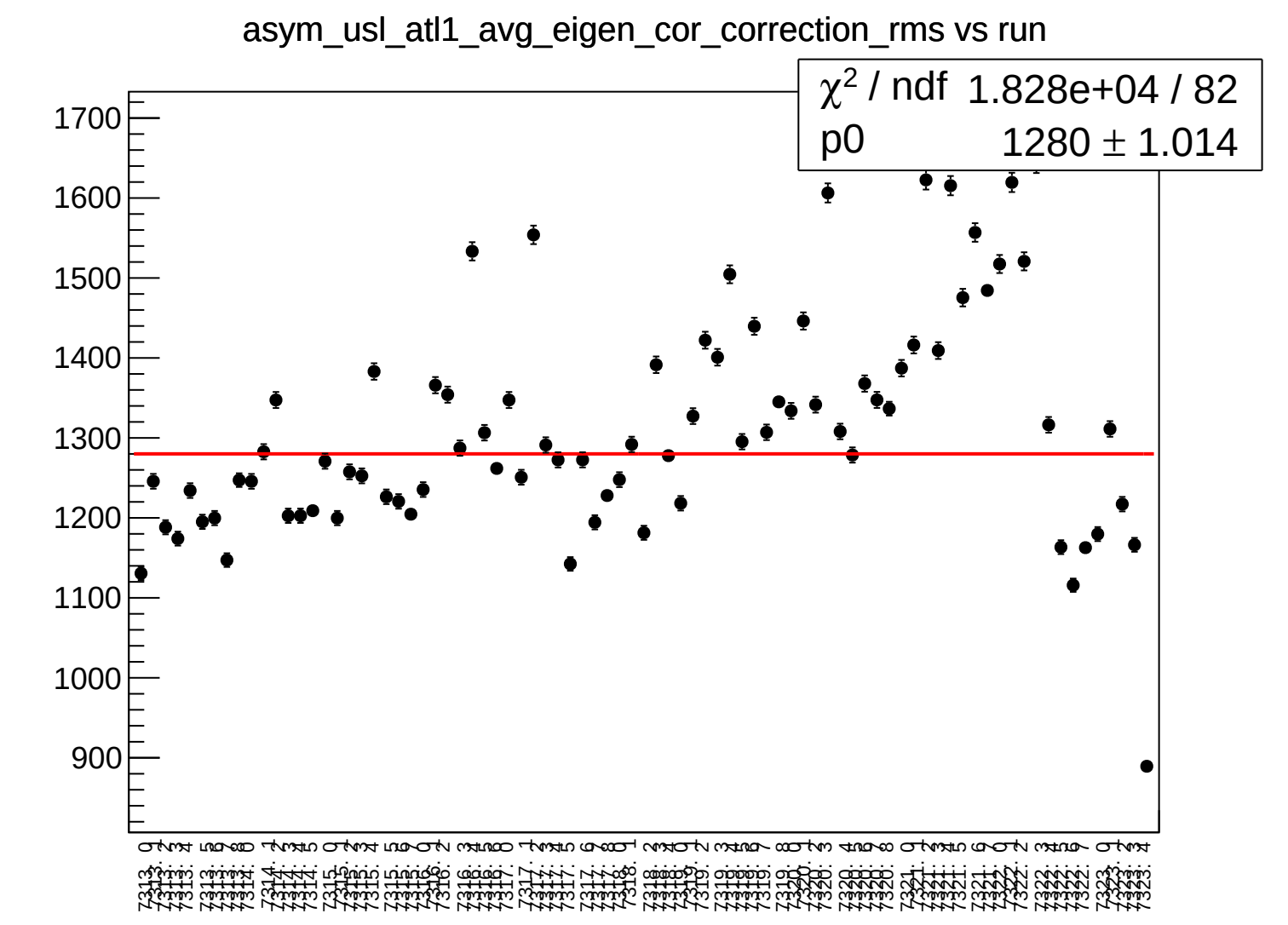

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.828e+04 / 82
p0 1280 ± 1.014
1700
1600
1500
1400
1300
1200
1100
1000
900

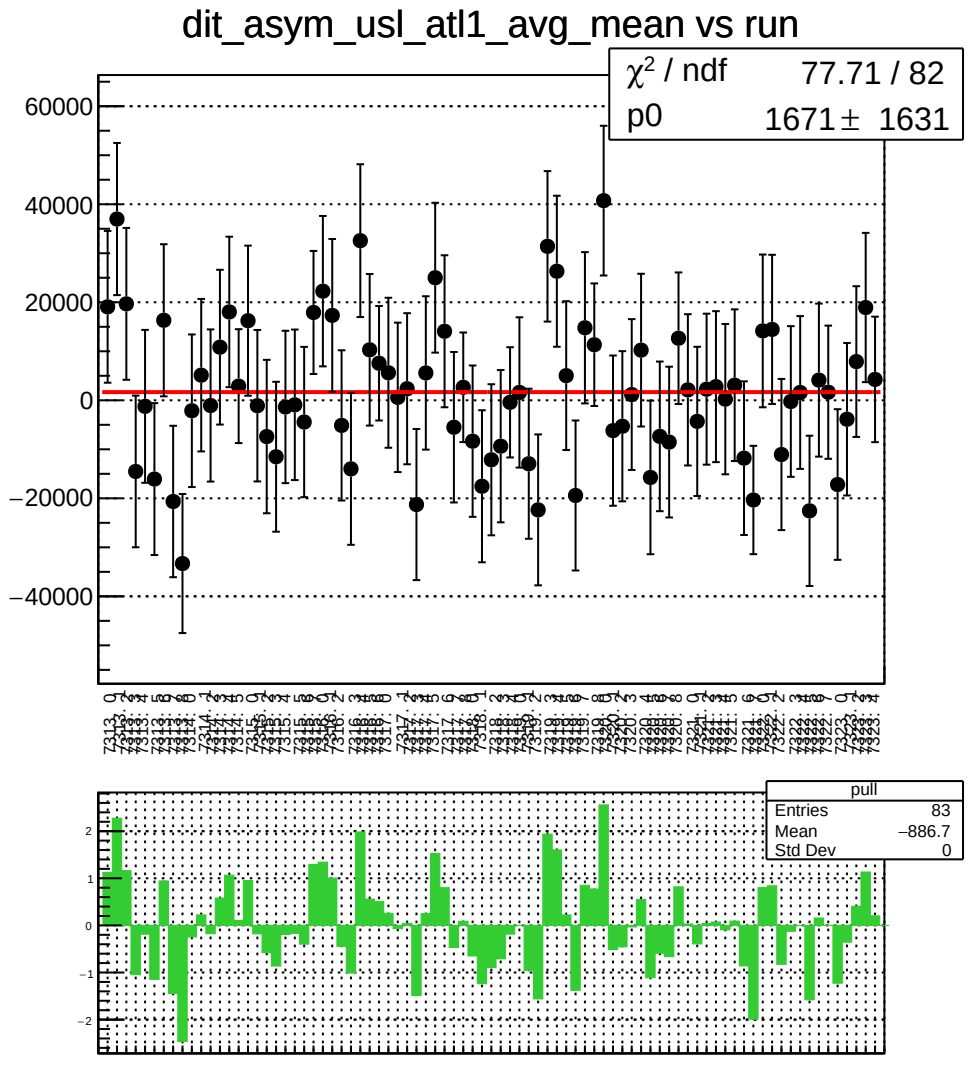

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.13 / 82
p0 1734 ± 1629
pull
Entries 83
Mean −804.8
Std Dev 0

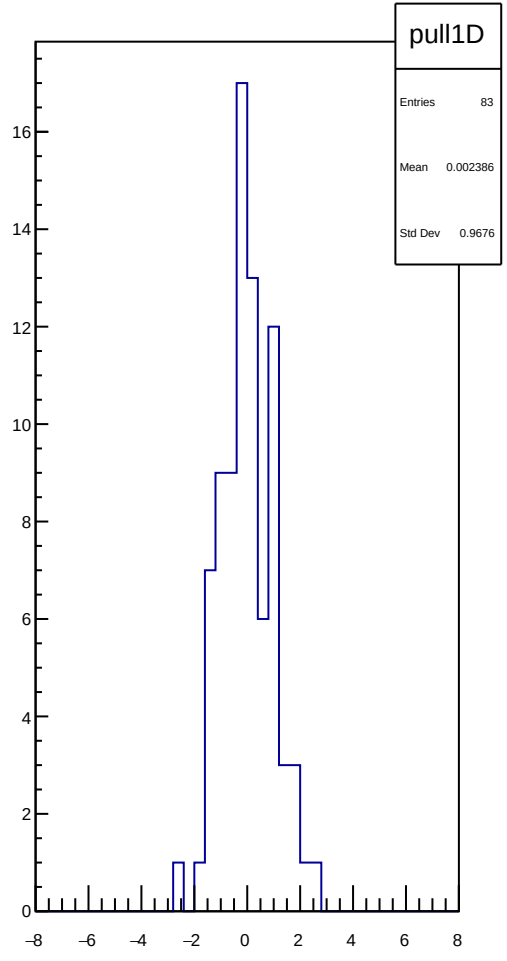

pull1D
Entries 83
Mean 0.00285
Std Dev 0.9764

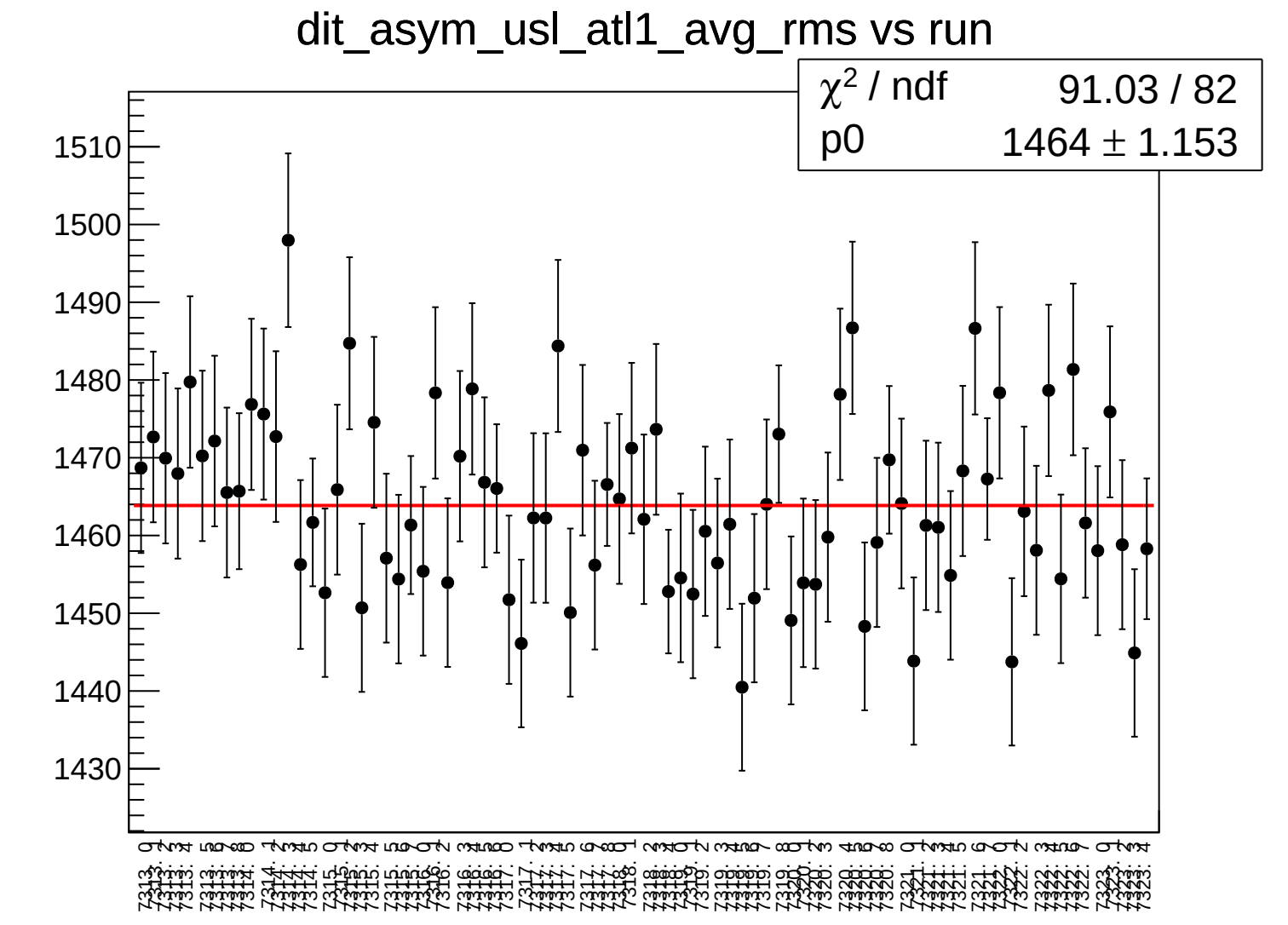

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.8 / 82
p0 1462 ± 1.152
1510
1500
1490
1480
1470
1460
1450
1440
1430

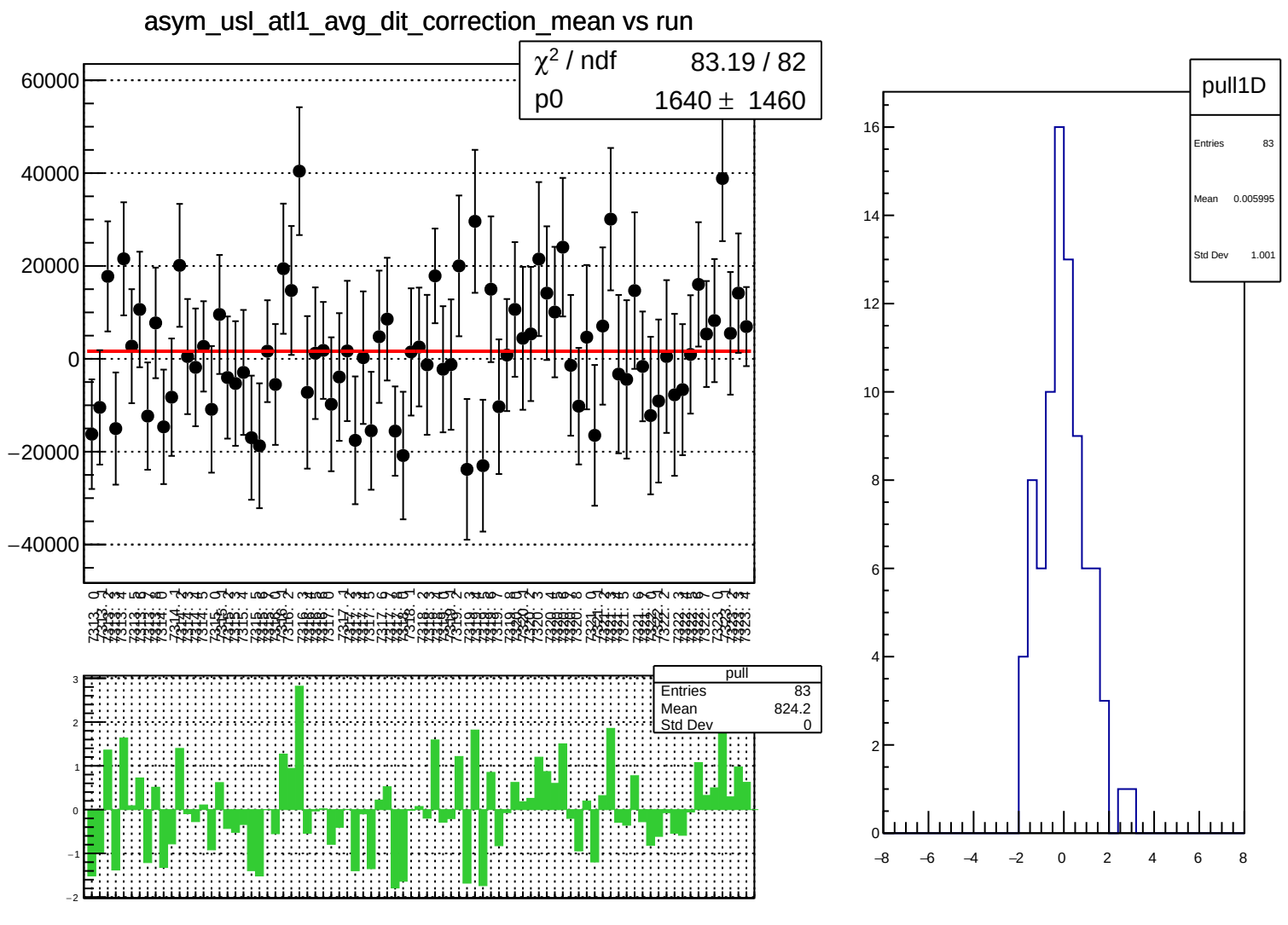

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.77 / 82
p0 1623 ± 1434
pull
Entries 83
Mean 572.3
Std Dev 0
pull1D
Entries 83
Mean 0.008589
Std Dev 0.9986

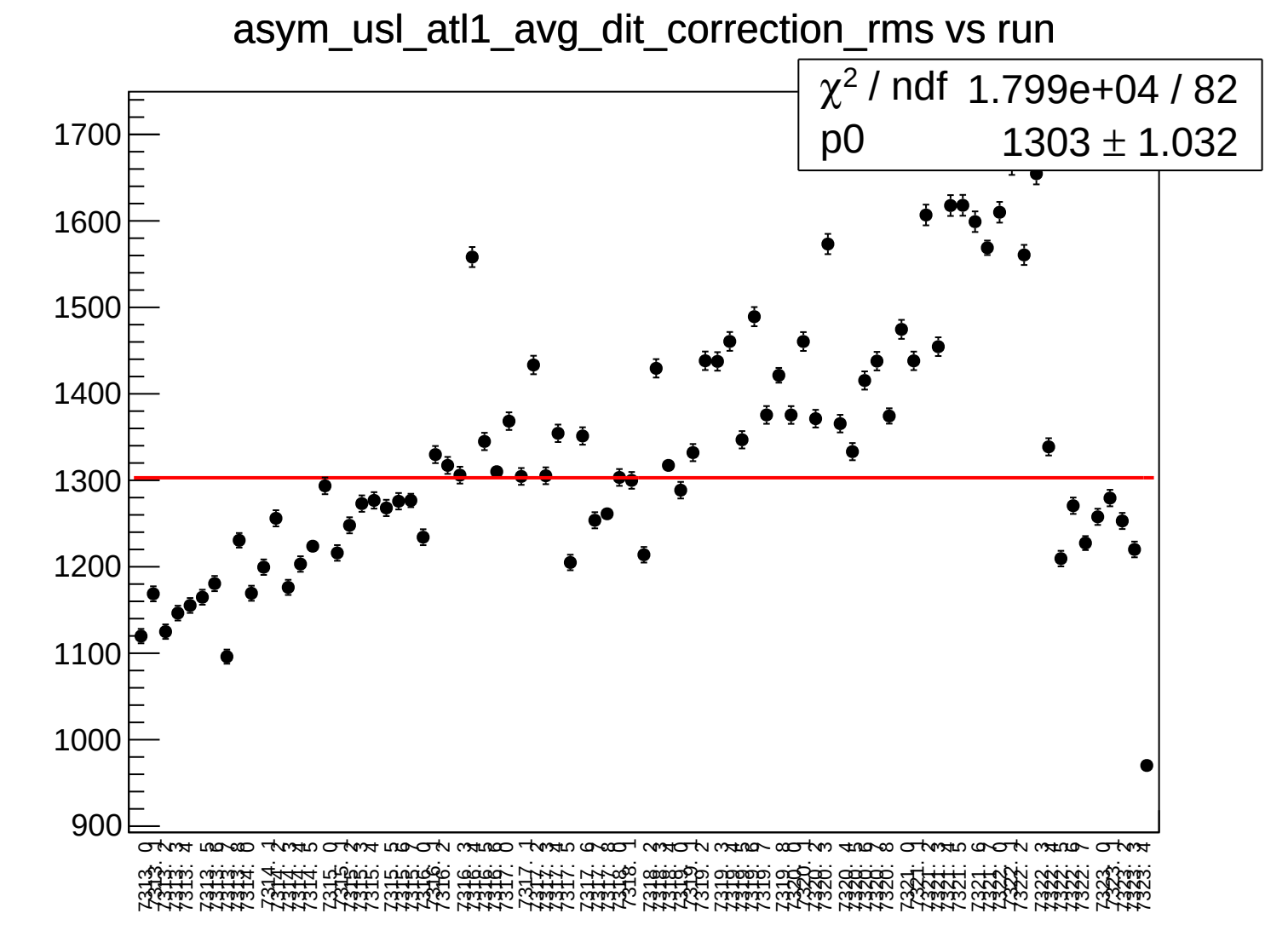

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.828e+04 / 82
p0 1280 ± 1.014
1700
1600
1500
1400
1300
1200
1100
1000
900

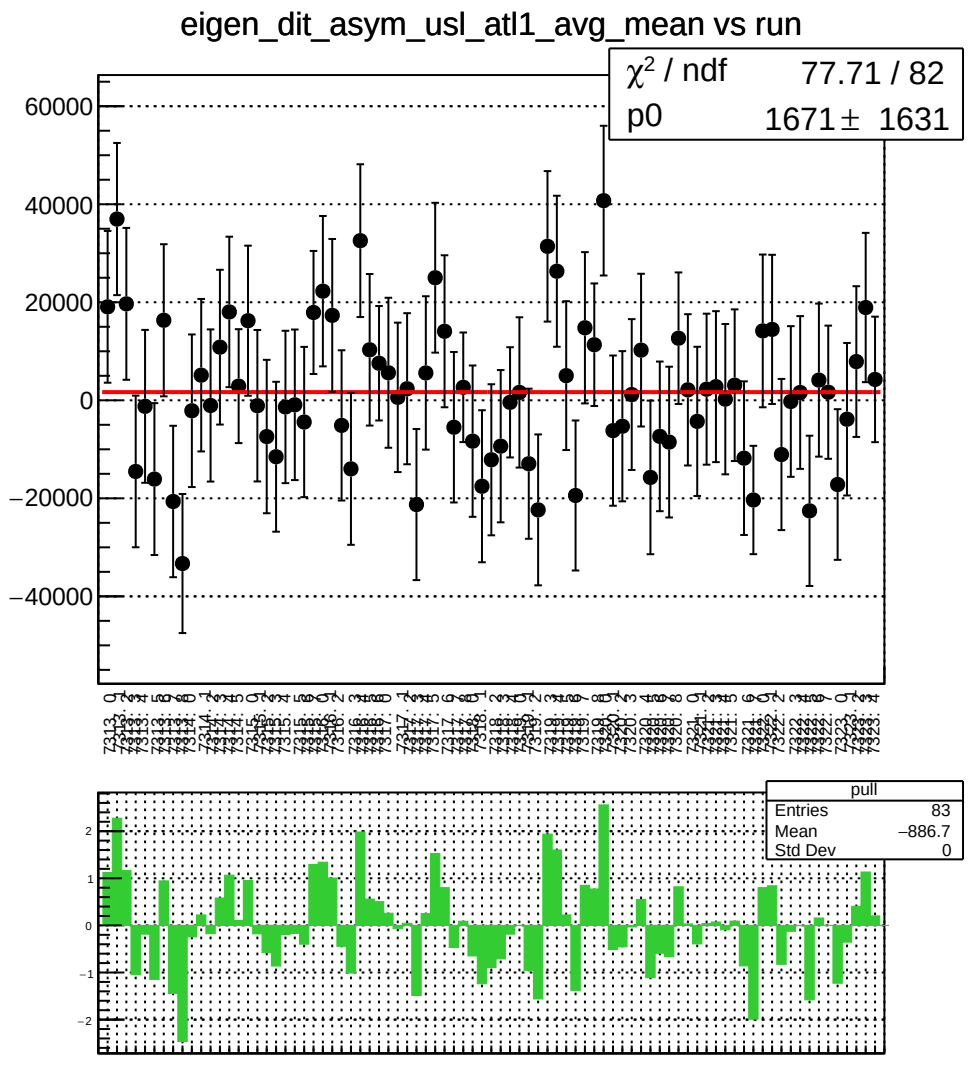

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 77.71 / 82
p0 1671 ± 1631
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −886.7
Std Dev 0
2
1
0
−1
−2

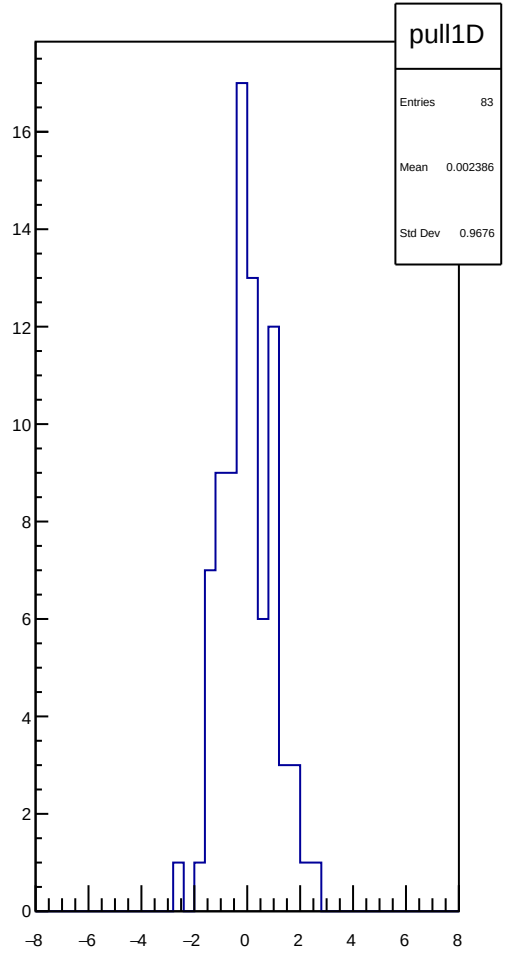

pull1D
Entries 83
Mean 0.002386
Std Dev 0.9676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

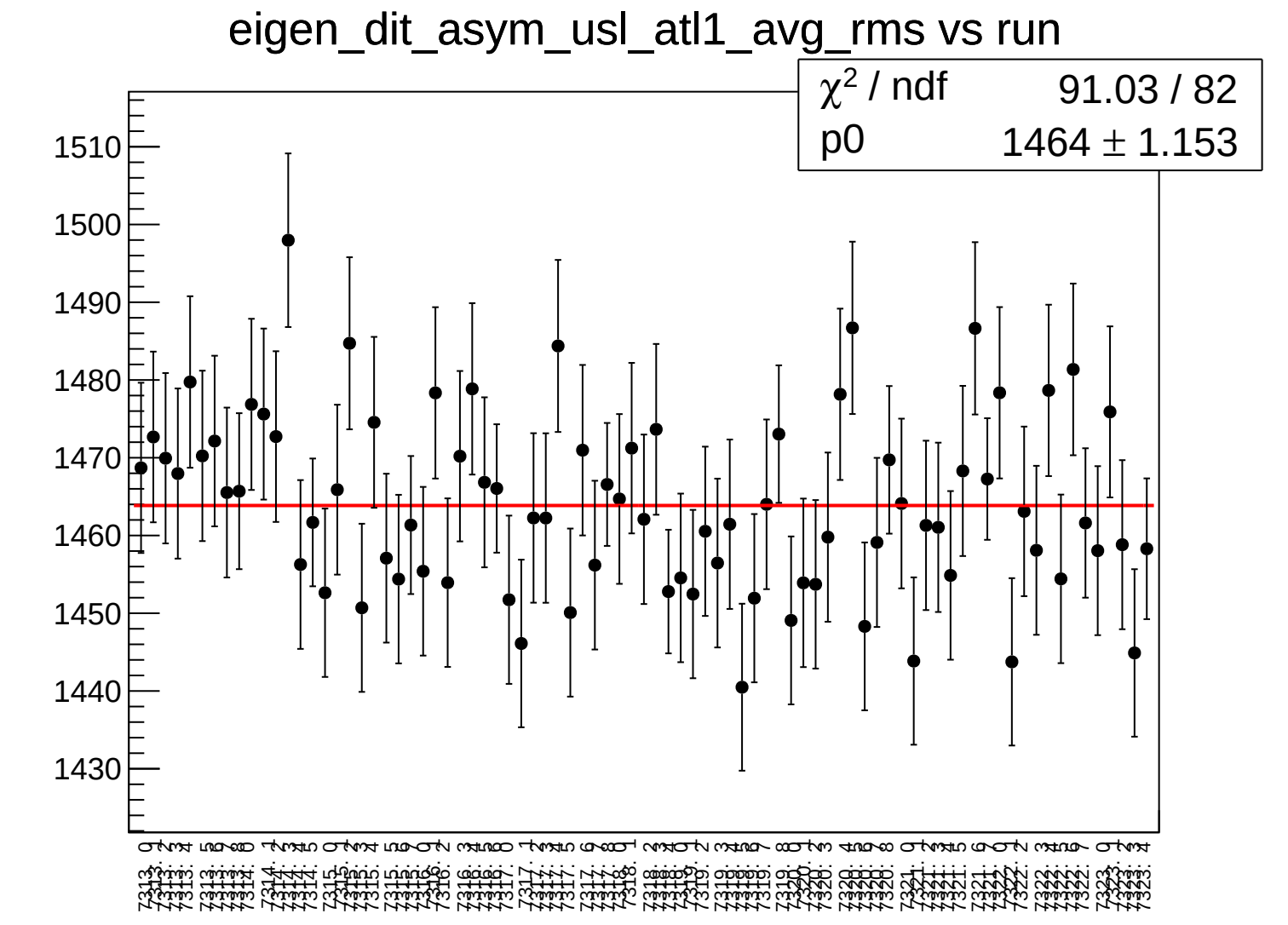

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 91.03 / 82
p0 1464 ± 1.153
1510
1500
1490
1480
1470
1460
1450
1440
1430

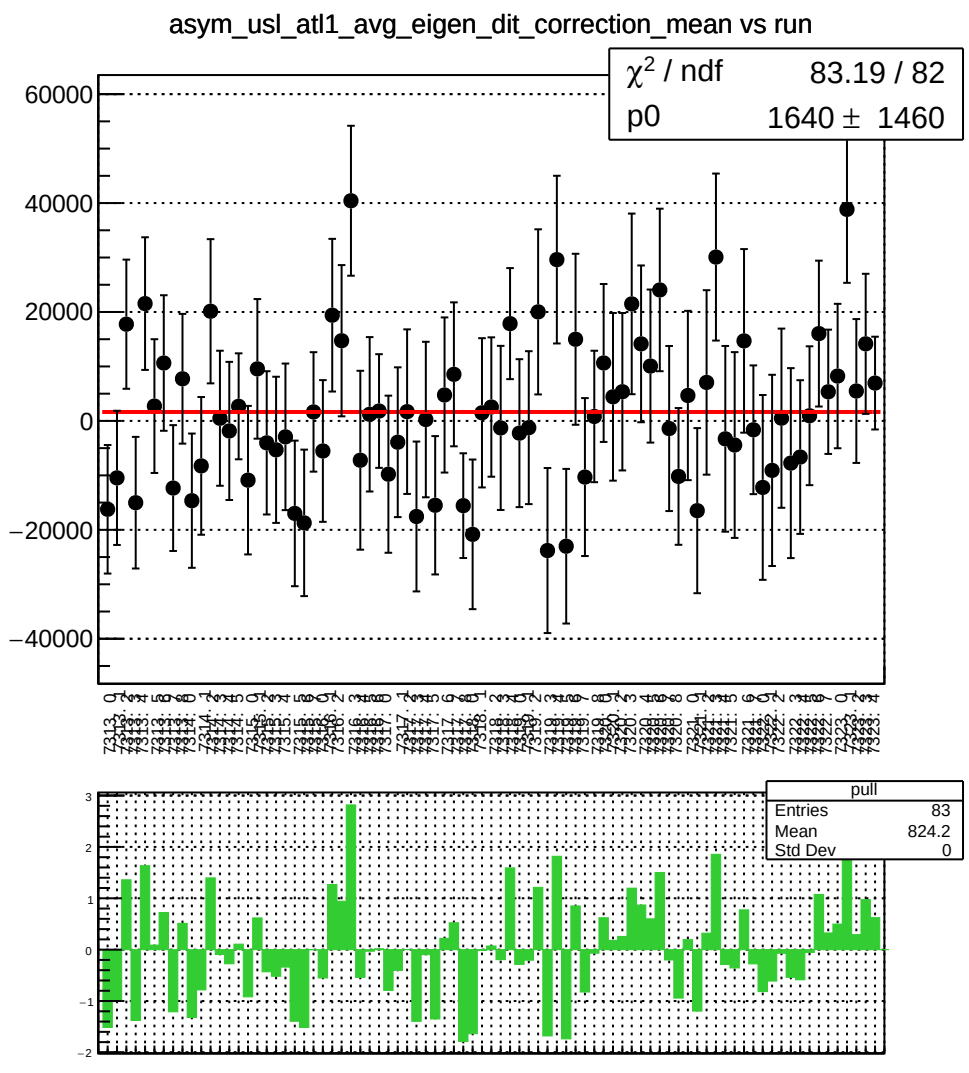

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 83.19 / 82
p0 1640 ± 1460
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 824.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.005995
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

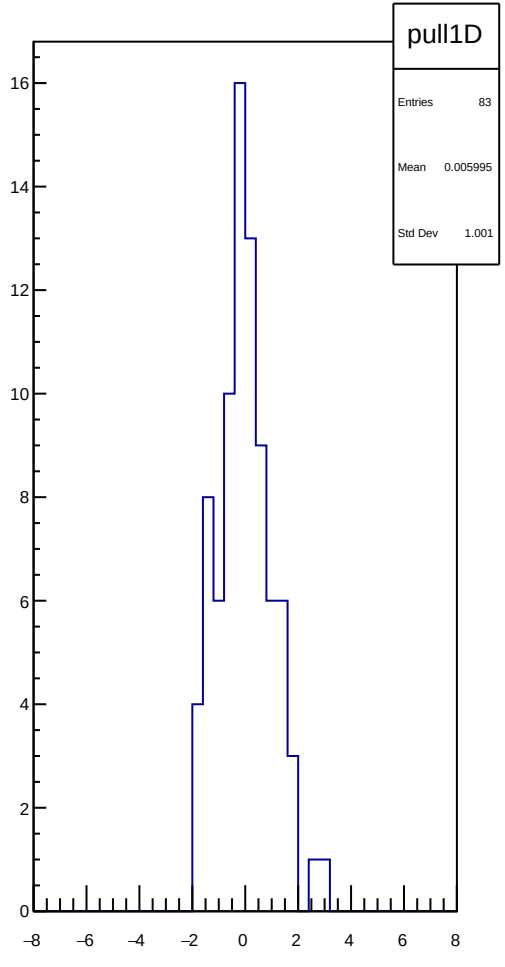

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.799e+04 / 82
p0 1303 ± 1.032
1700
1600
1500
1400
1300
1200
1100
1000
900

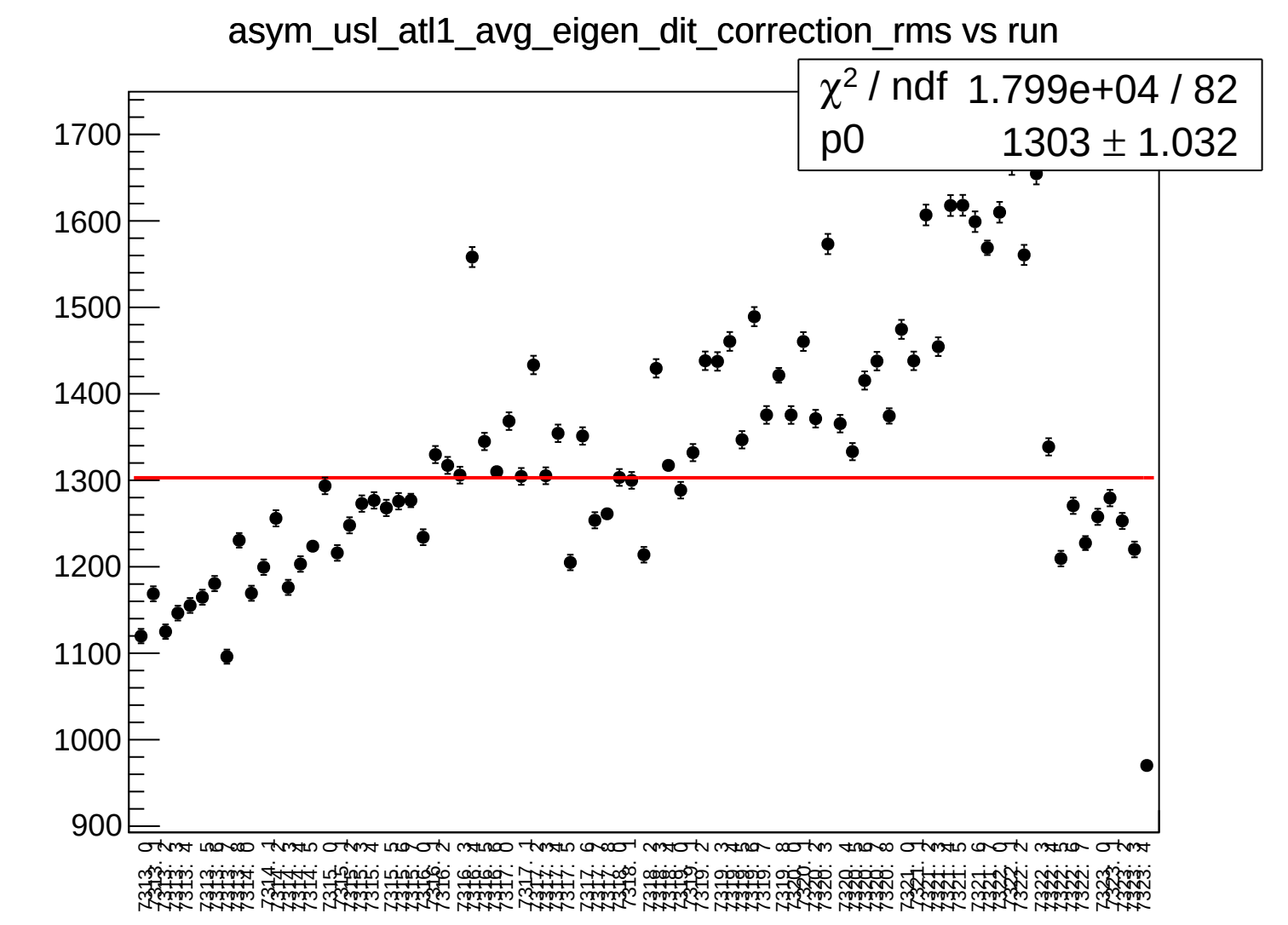

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 77.71 / 82
p0 1671 ± 1631
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −886.7
Std Dev 0
2
1
0
−1
−2

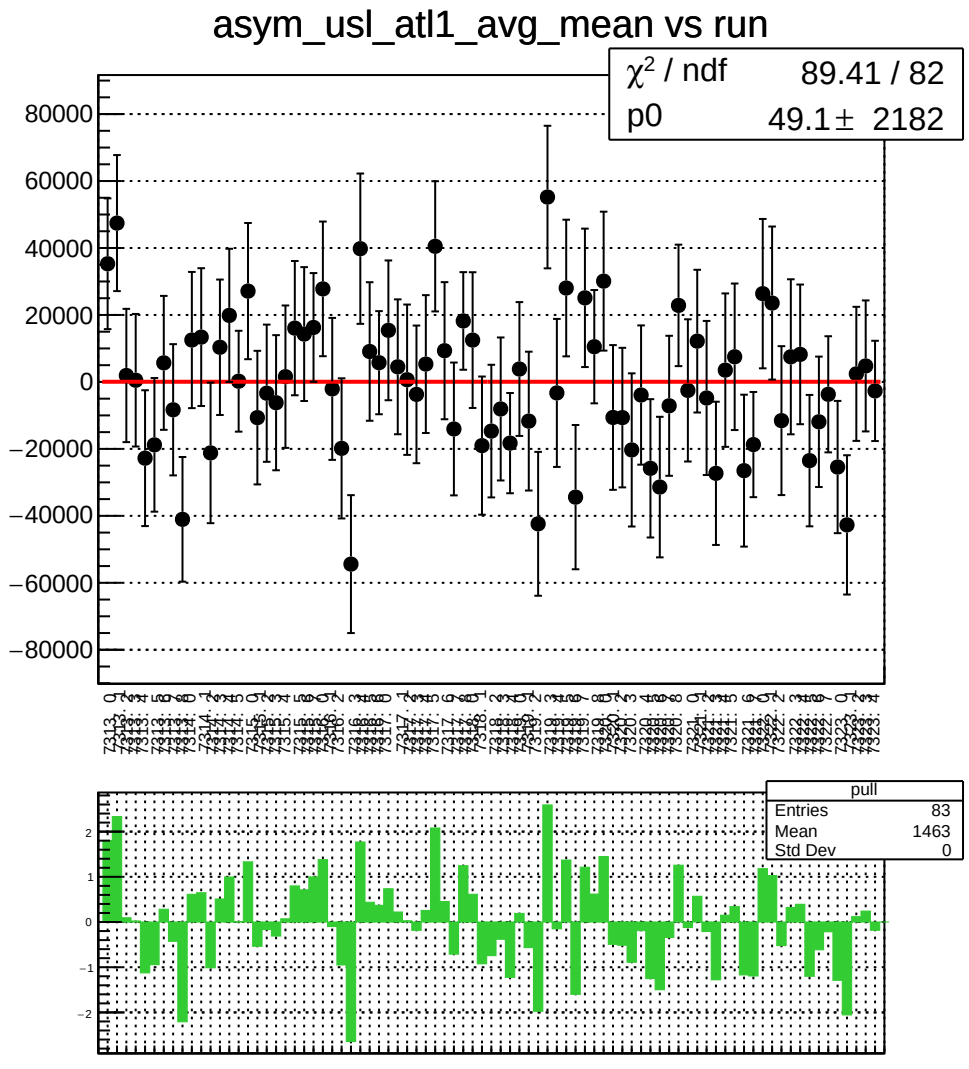

pull1D
Entries 83
Mean 0.002386
Std Dev 0.9676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

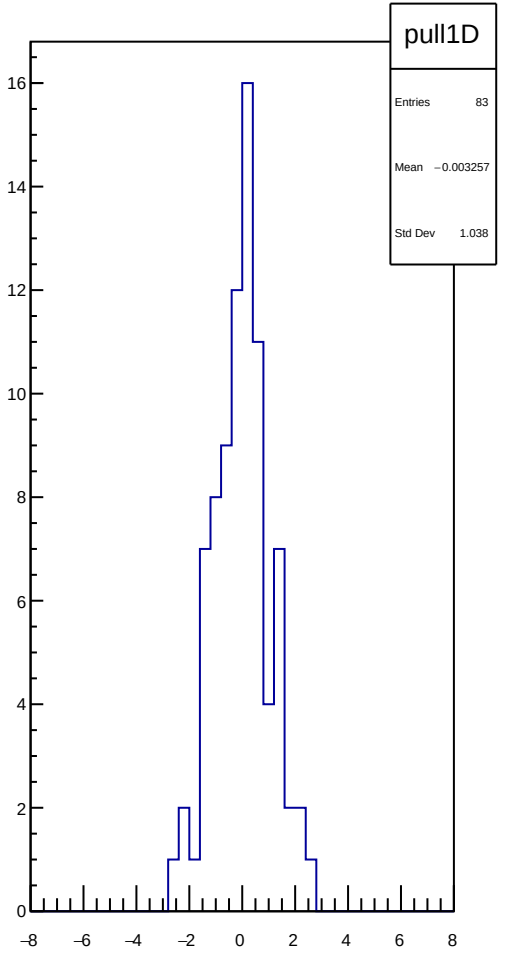

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 91.03 / 82
p0 1464 ± 1.153
1510
1500
1490
1480
1470
1460
1450
1440
1430

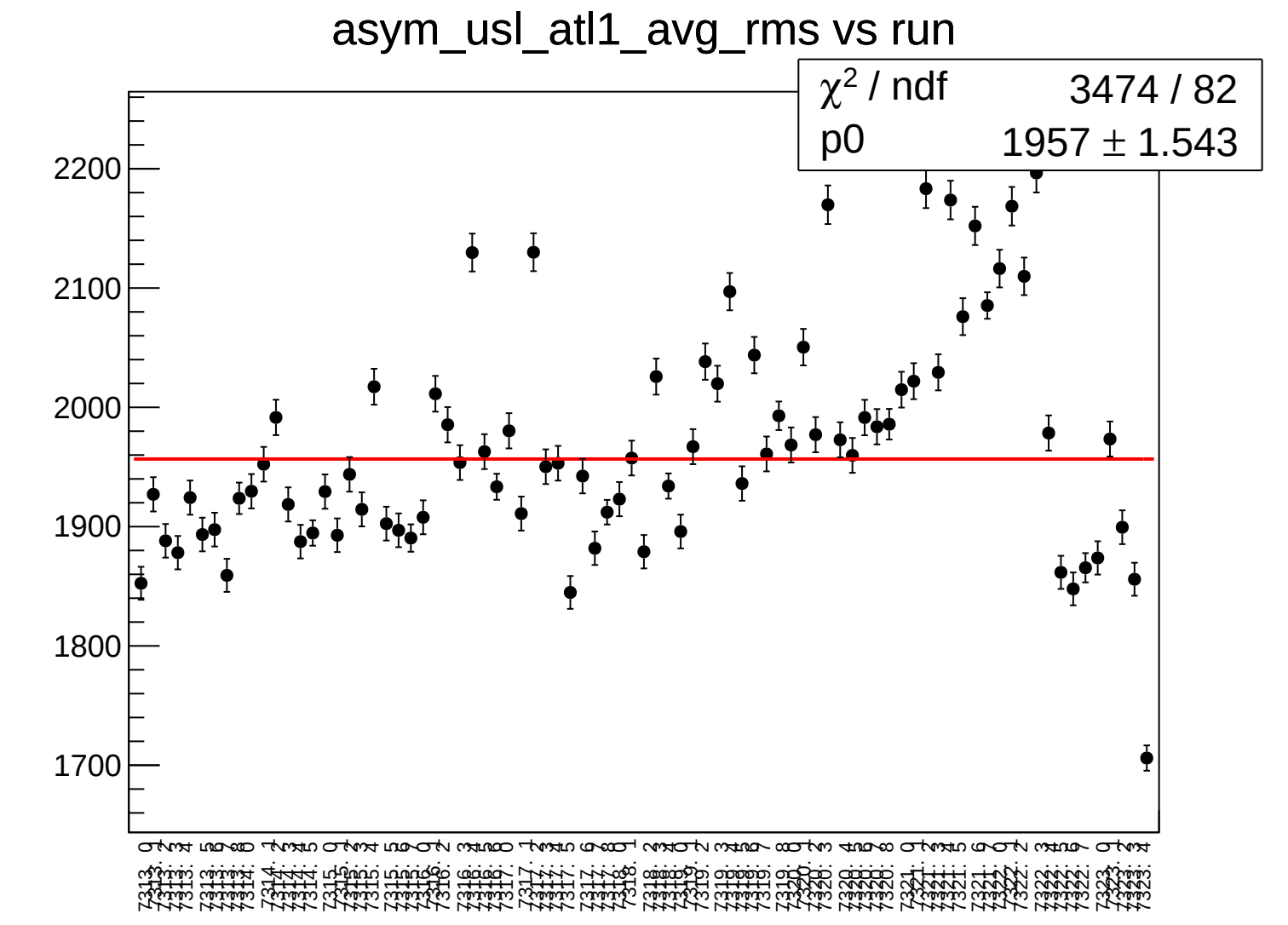

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.19 / 82
p0 1640 ± 1460
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 824.2
Std Dev 0
3
2
1
0
−1
−2

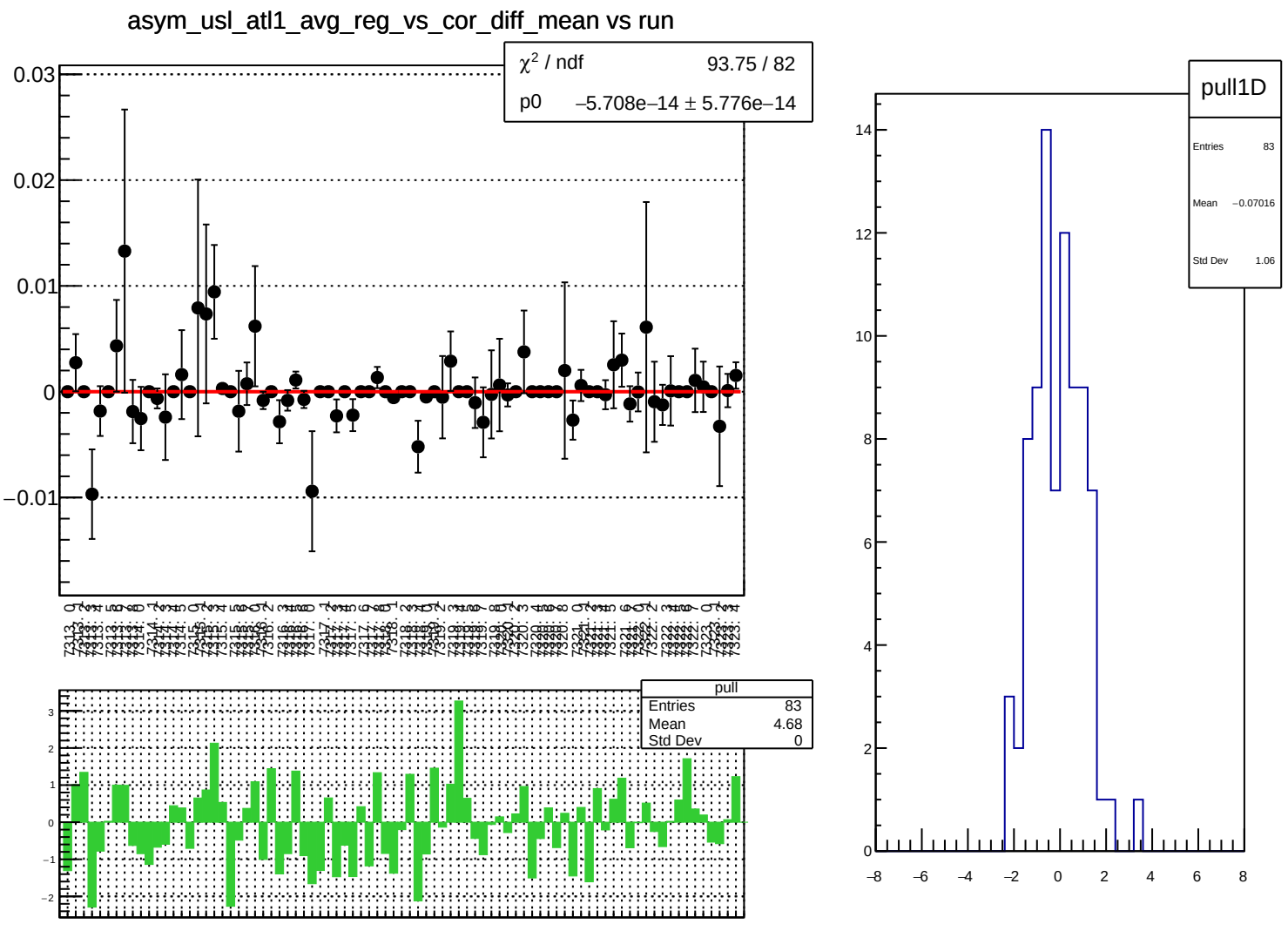

pull1D
Entries 83
Mean 0.005995
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

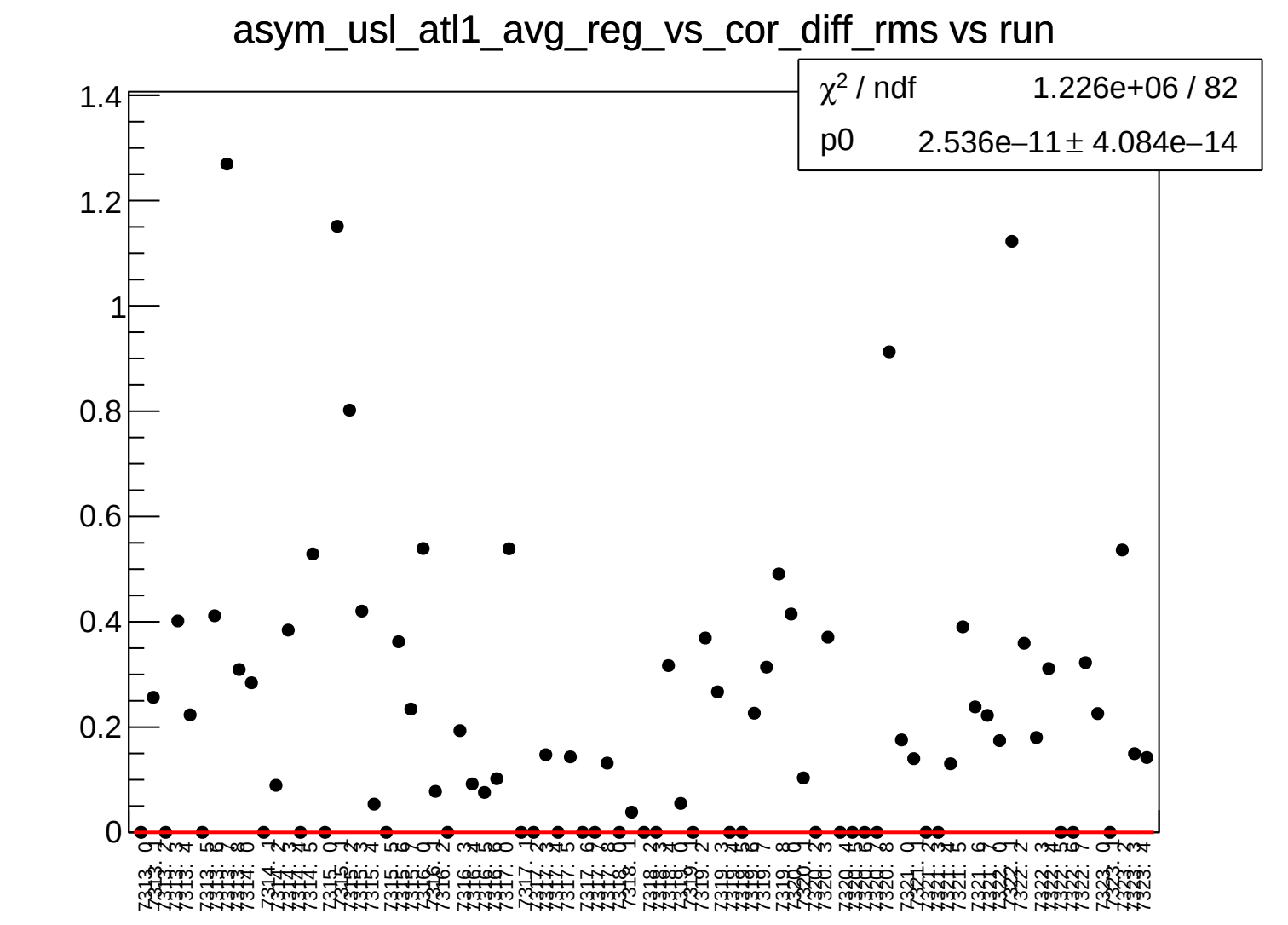

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.799e+04 / 82
p0 1303 ± 1.032
1700
1600
1500
1400
1300
1200
1100
1000
900

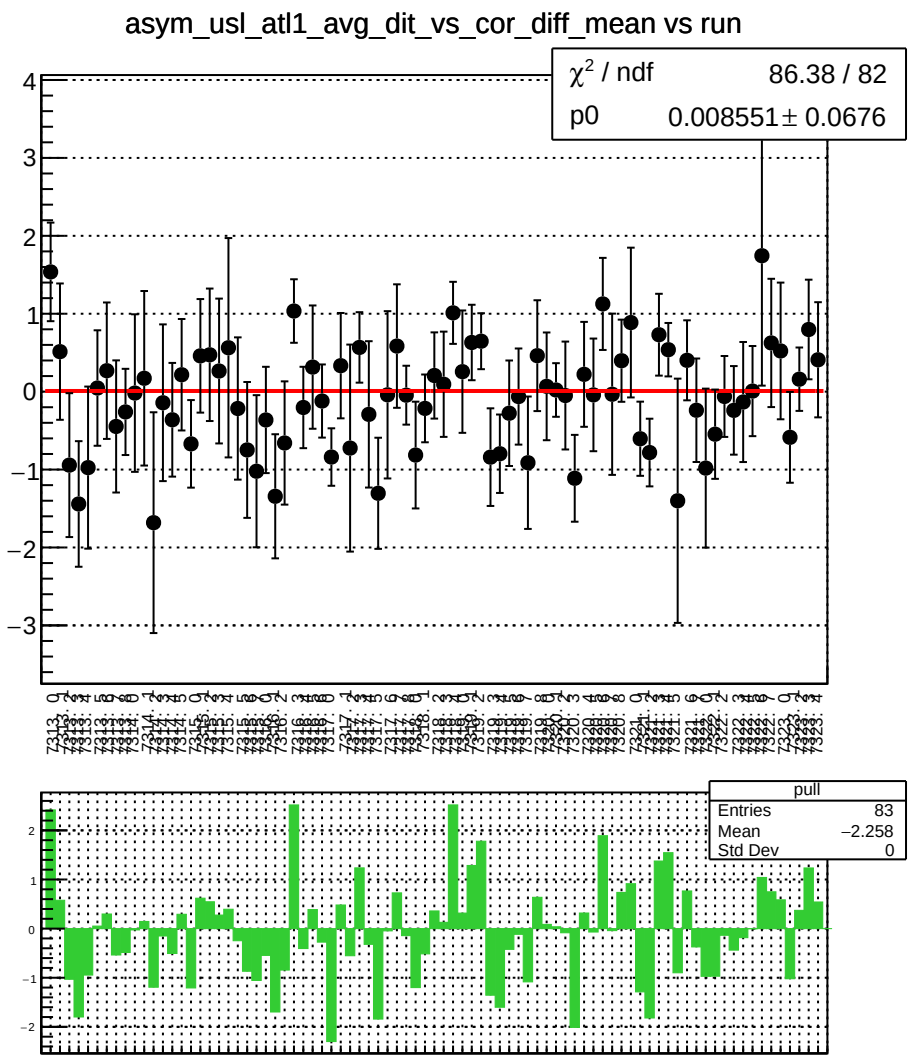

asym_usl_atl1_avg_mean vs run
χ² / ndf 89.41 / 82
p0 49.1± 2182
pull
Entries 83
Mean 1463
Std Dev 0

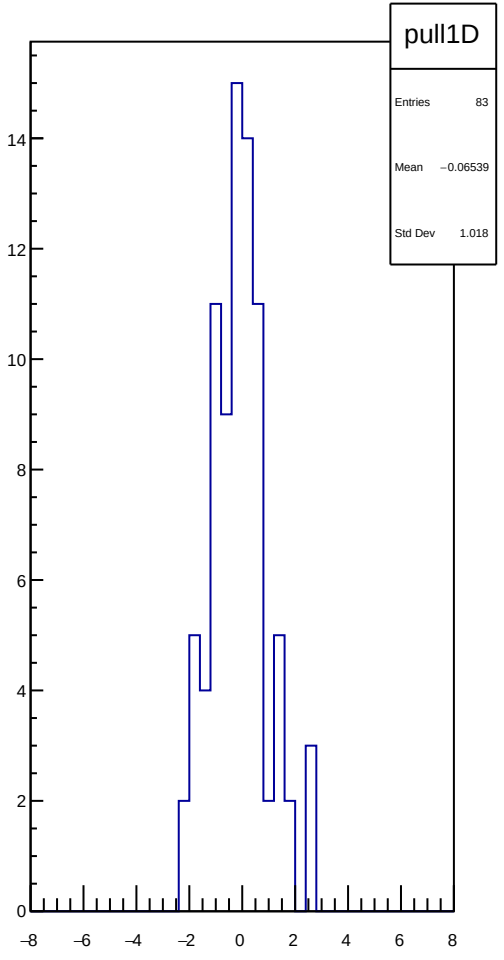

pull1D
Entries 83
Mean −0.003257
Std Dev 1.038

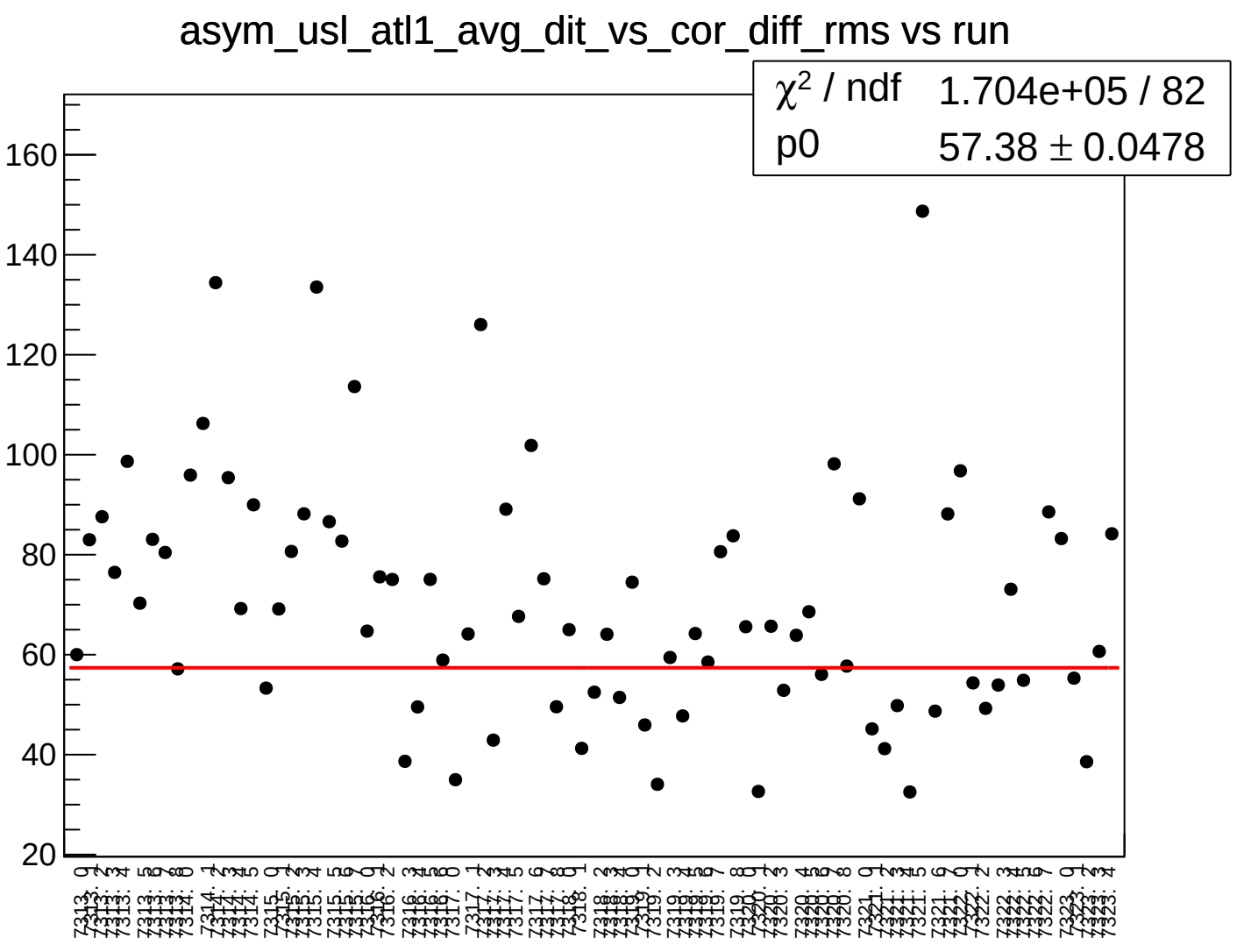

asym_usl_atl1_avg_rms vs run
χ² / ndf 3474 / 82
p0 1957 ± 1.543
2200
2100
2000
1900
1800
1700

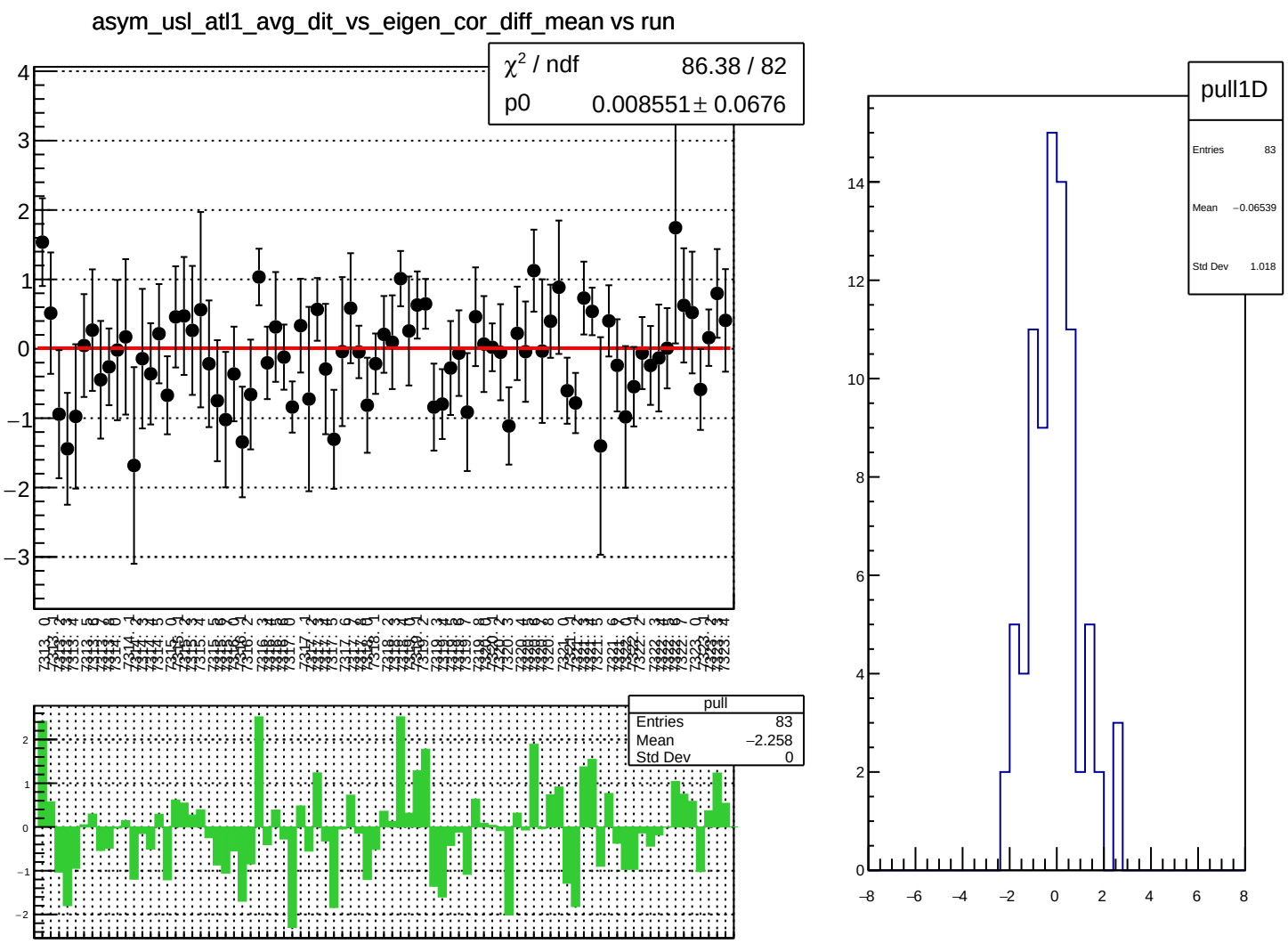

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.75 / 82
p0 −5.708e−14 ± 5.776e−14
pull
Entries 83
Mean 4.68
Std Dev 0
pull1D
Entries 83
Mean −0.07016
Std Dev 1.06

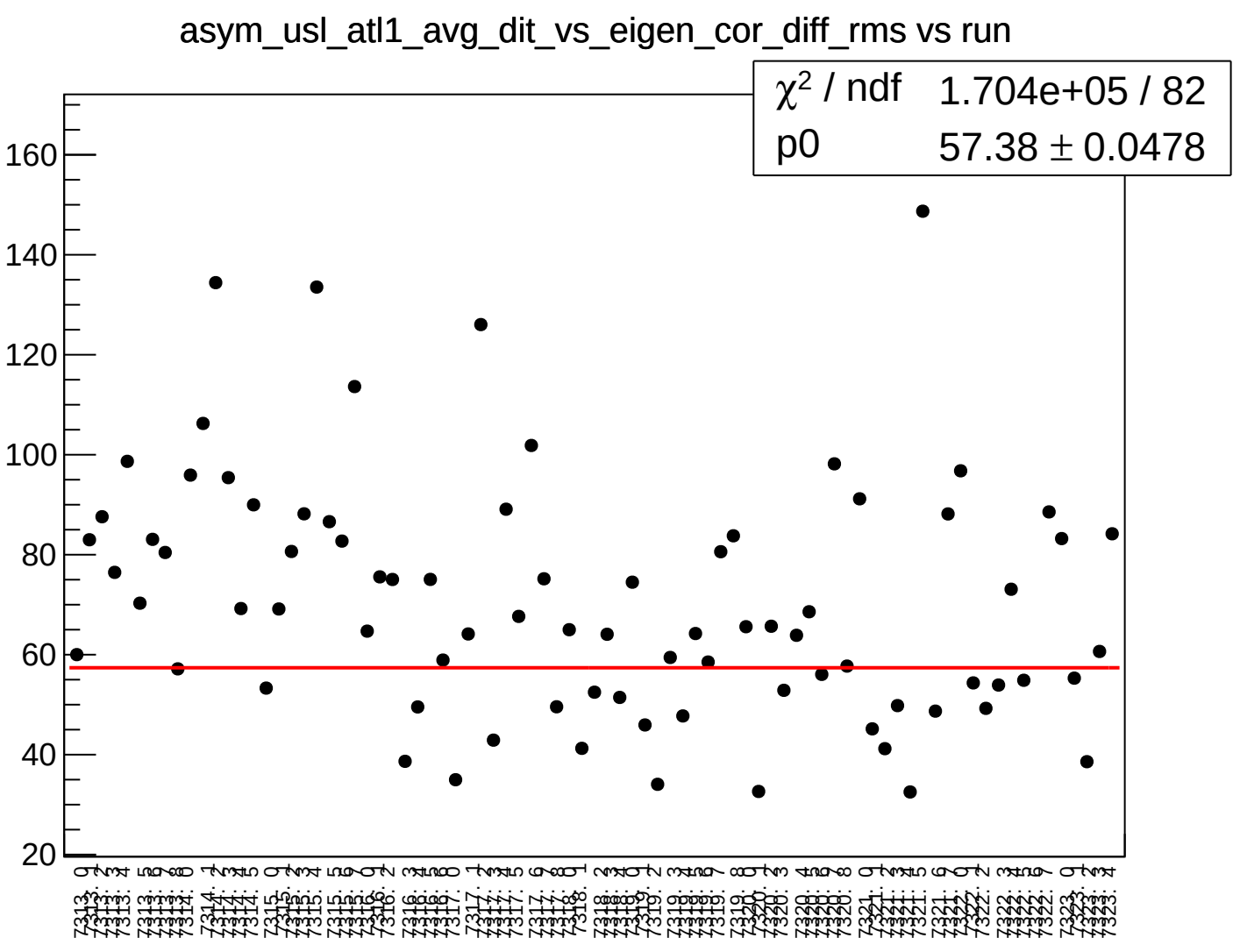

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.226e+06 / 82
p0 2.536e−11 ± 4.084e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

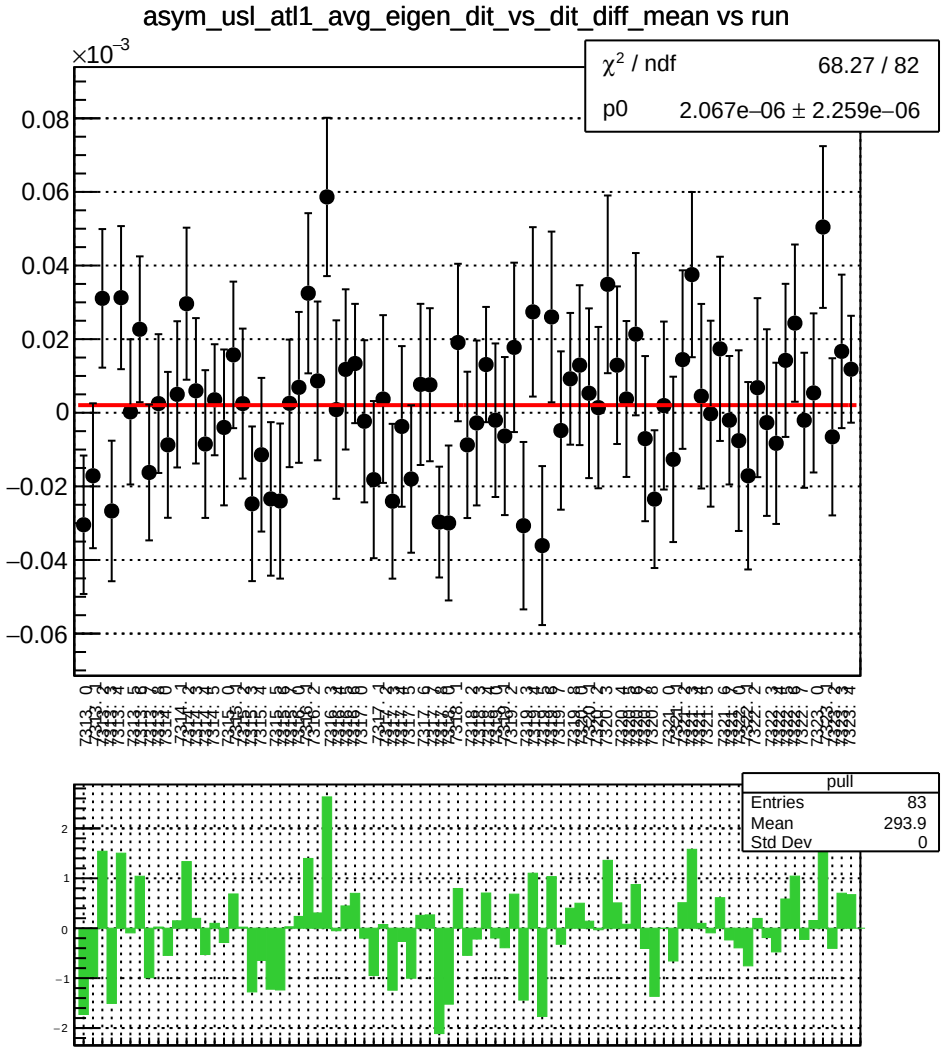

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.38 / 82
p0 0.008551 ± 0.0676
pull
Entries 83
Mean −2.258
Std Dev 0

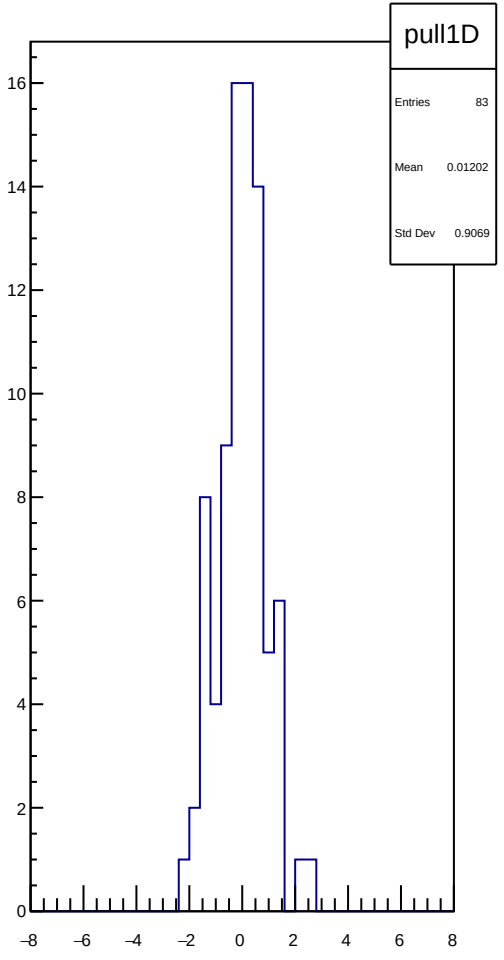

pull1D
Entries 83
Mean −0.06539
Std Dev 1.018

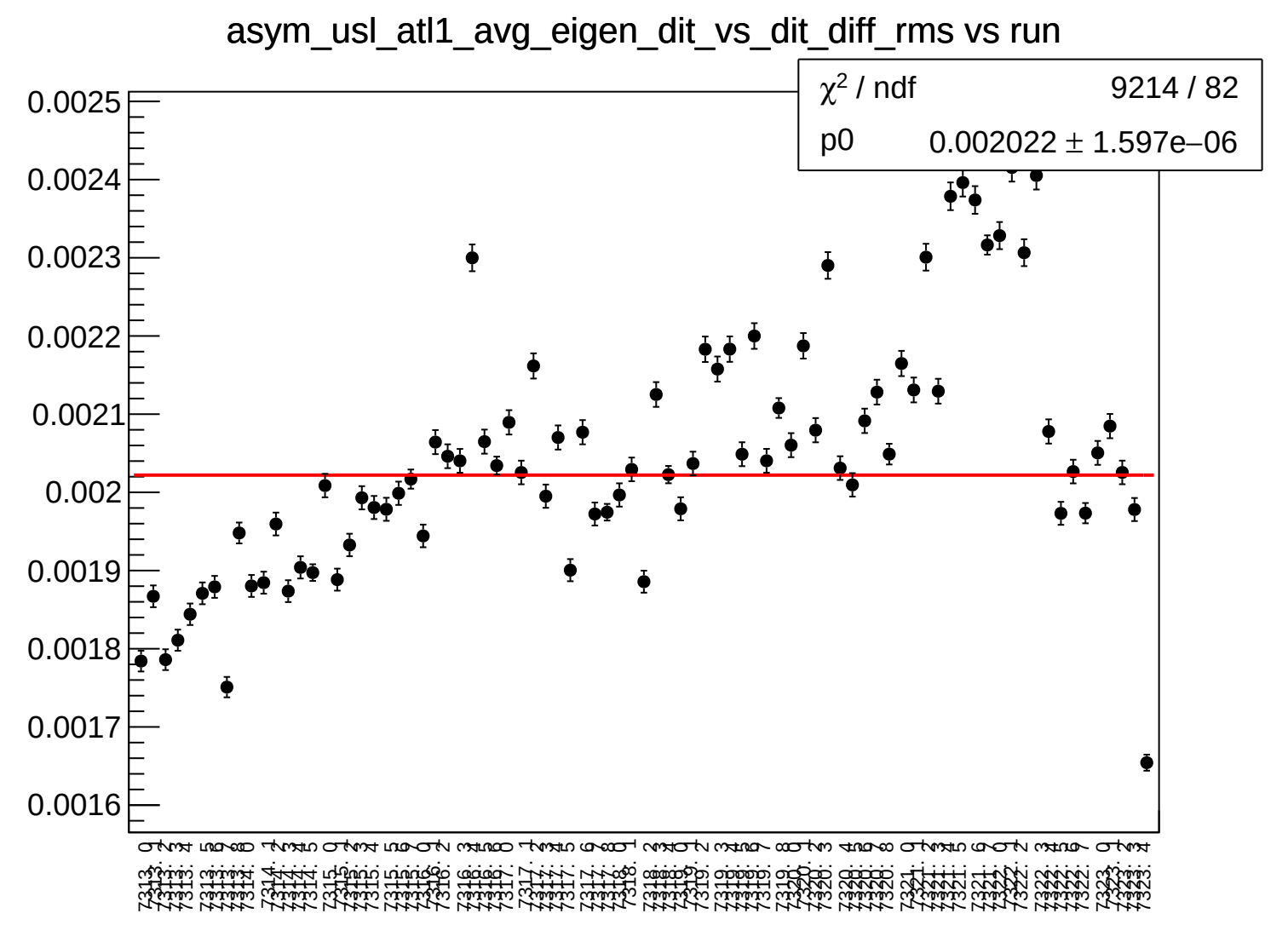

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 82
p0 57.38 ± 0.0478
160
140
120
100
80
60
40
20

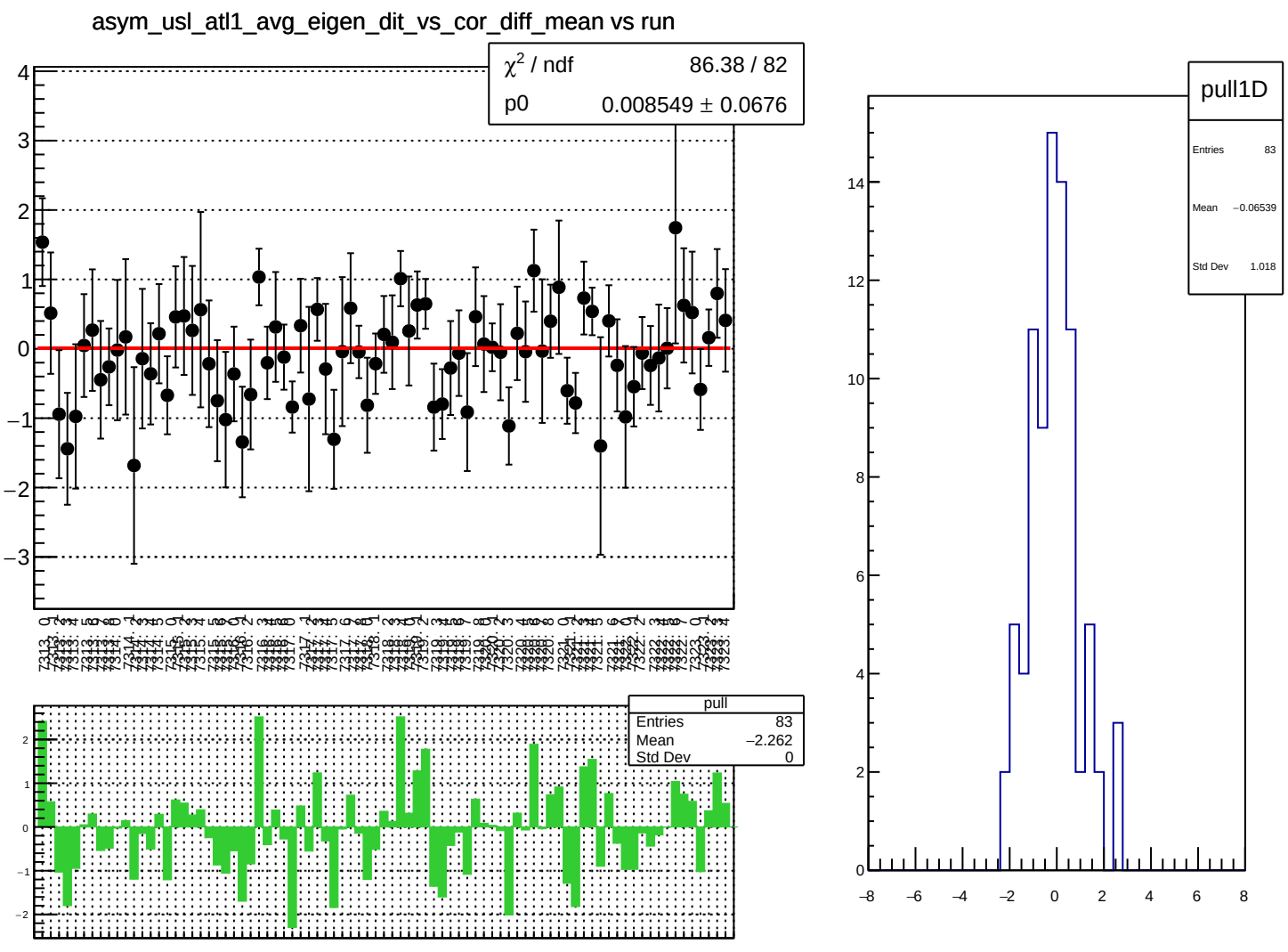

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.38 / 82
p0 0.008551 ± 0.0676
pull
Entries 83
Mean −2.258
Std Dev 0
pull1D
Entries 83
Mean −0.06539
Std Dev 1.018

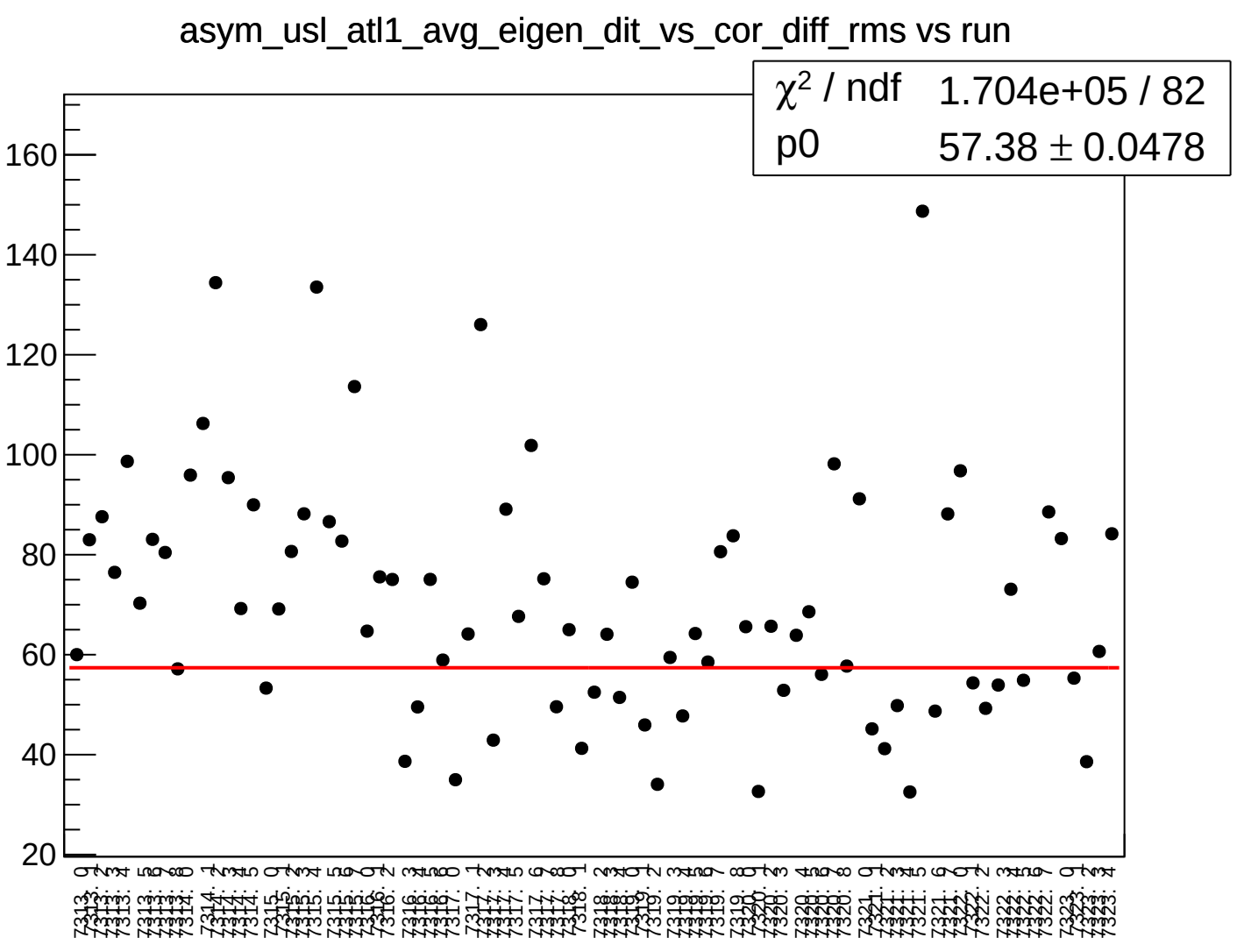

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 82
p0 57.38 ± 0.0478
160
140
120
100
80
60
40
20

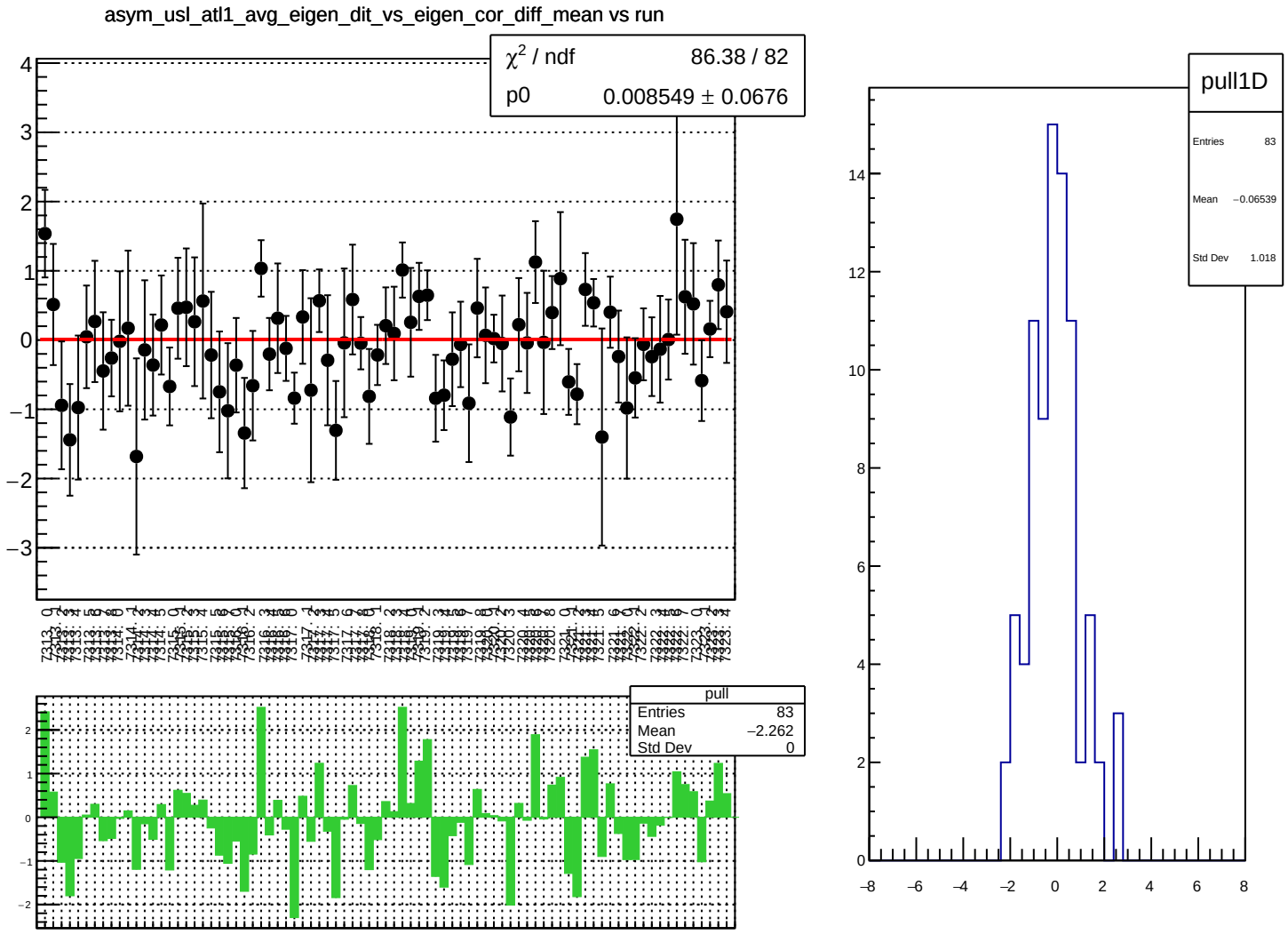

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.27 / 82
p0 2.067e−06 ± 2.259e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean 293.9
Std Dev 0
2
1
0
−1
−2

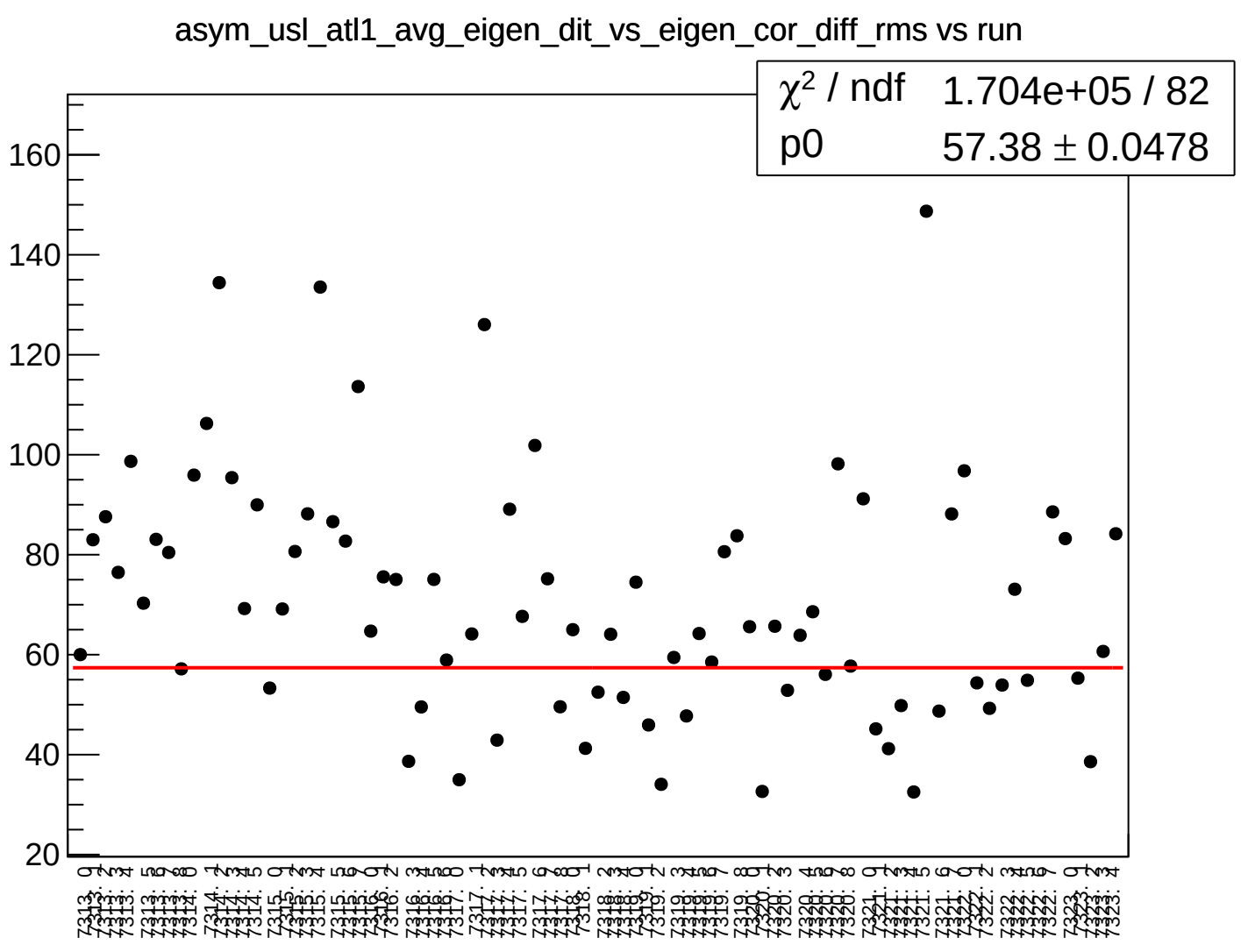

pull1D
Entries 83
Mean 0.01202
Std Dev 0.9069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

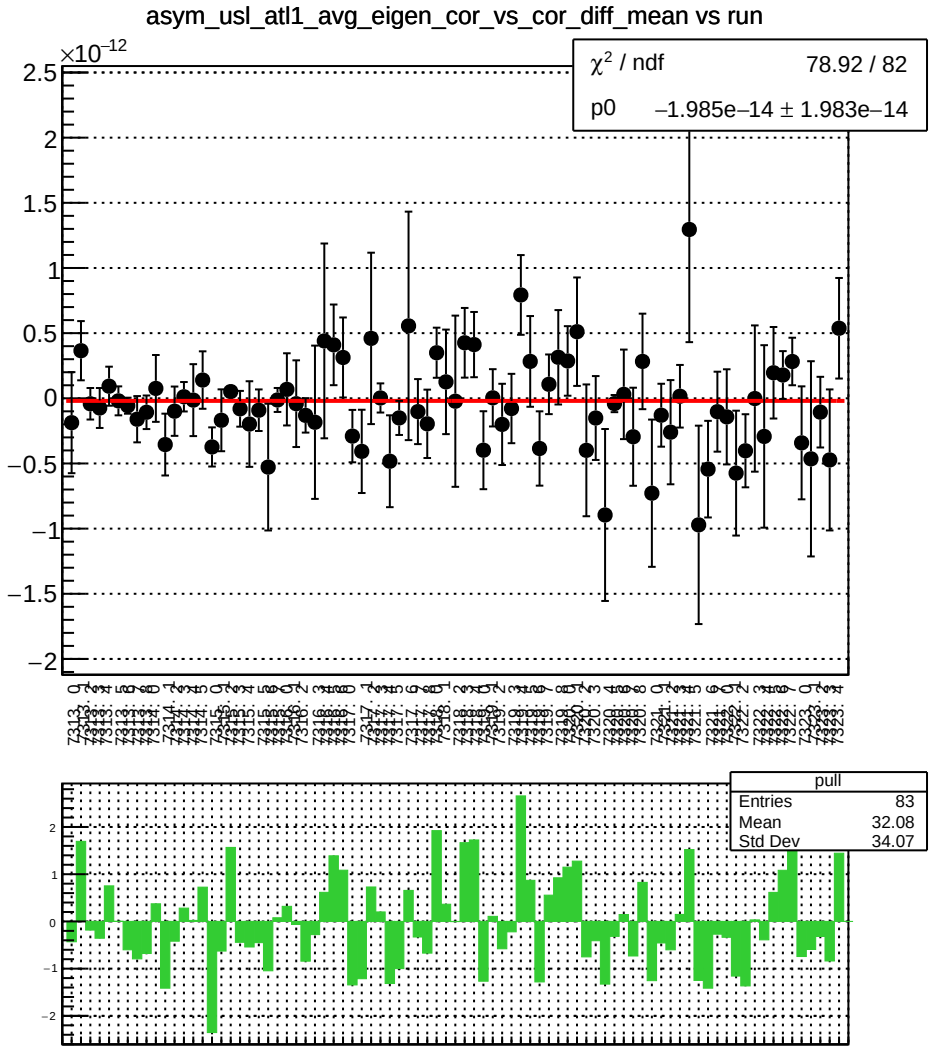

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9214 / 82
p0 0.002022 ± 1.597e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

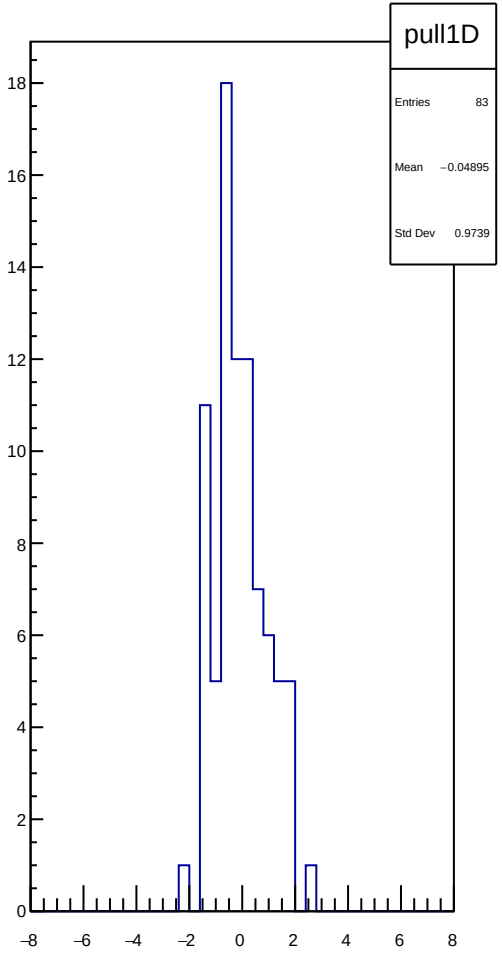

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.38 / 82
p0 0.008549 ± 0.0676
pull
Entries 83
Mean −2.262
Std Dev 0
pull1D
Entries 83
Mean −0.06539
Std Dev 1.018

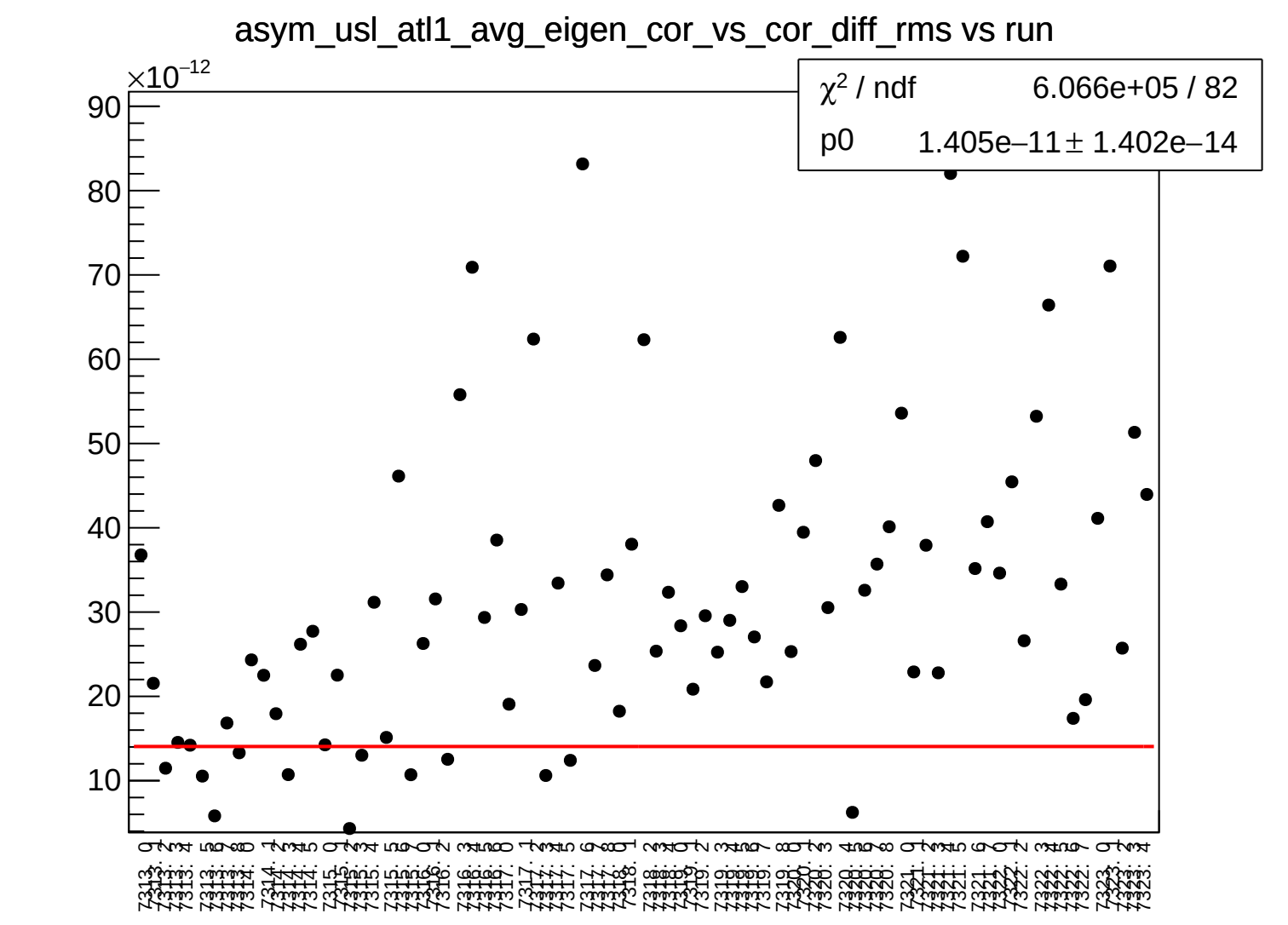

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 82
p0 57.38 ± 0.0478
160
140
120
100
80
60
40
20

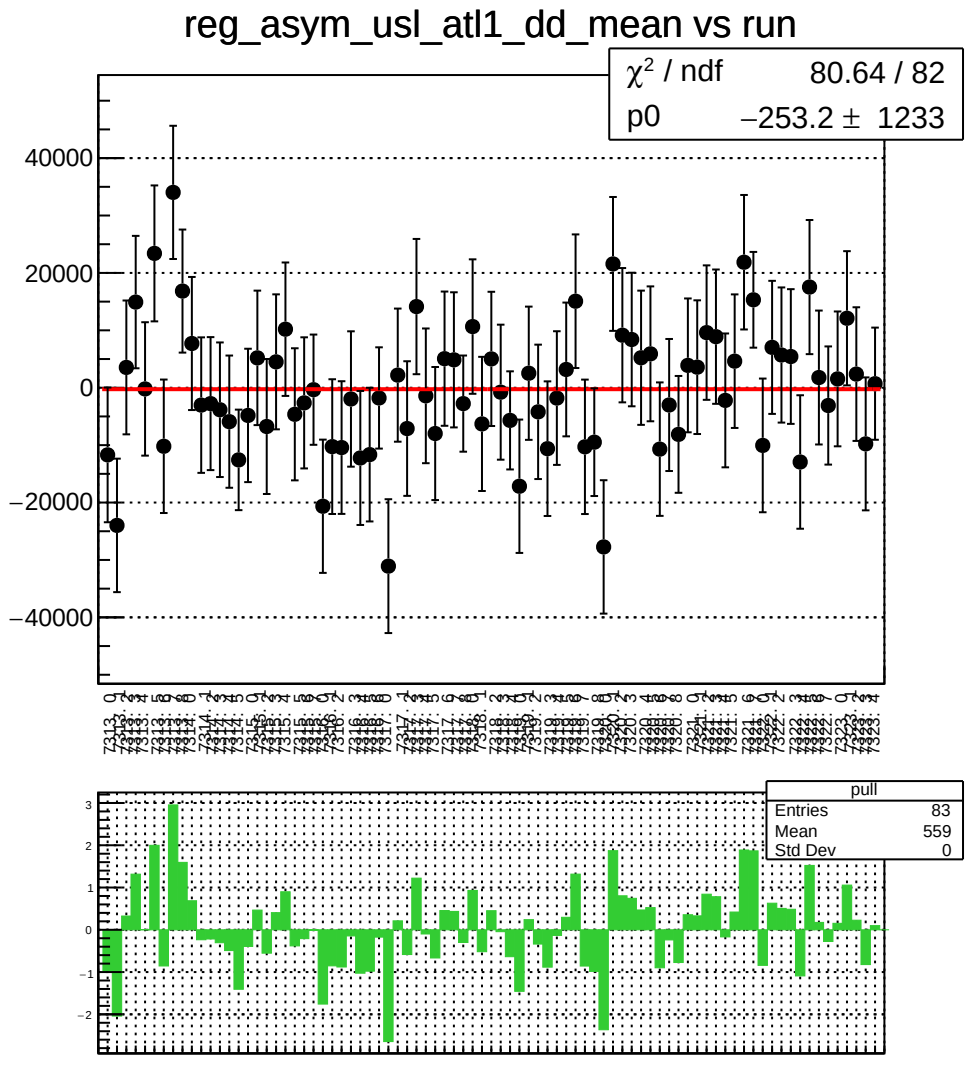

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.38 / 82
p0 0.008549 ± 0.0676
pull
Entries 83
Mean −2.262
Std Dev 0
pull1D
Entries 83
Mean −0.06539
Std Dev 1.018

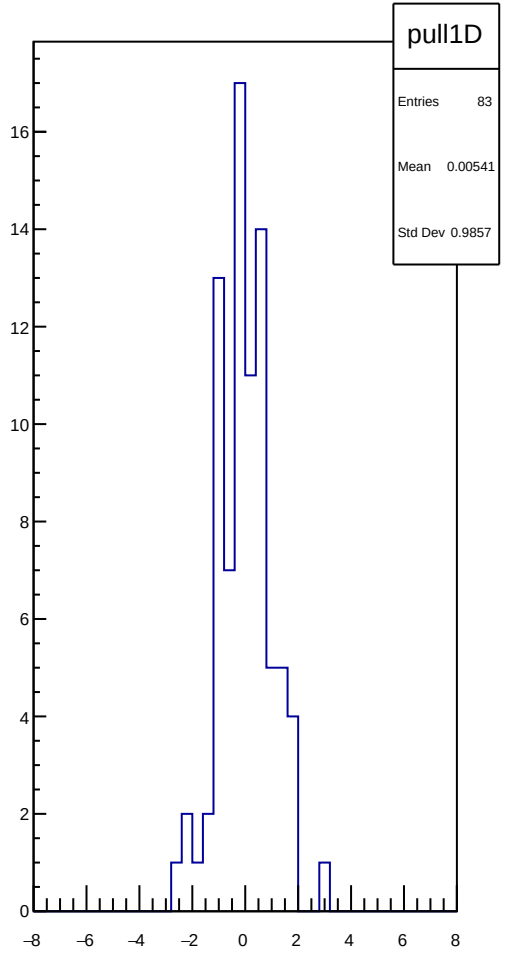

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 82
p0 57.38 ± 0.0478
160
140
120
100
80
60
40
20

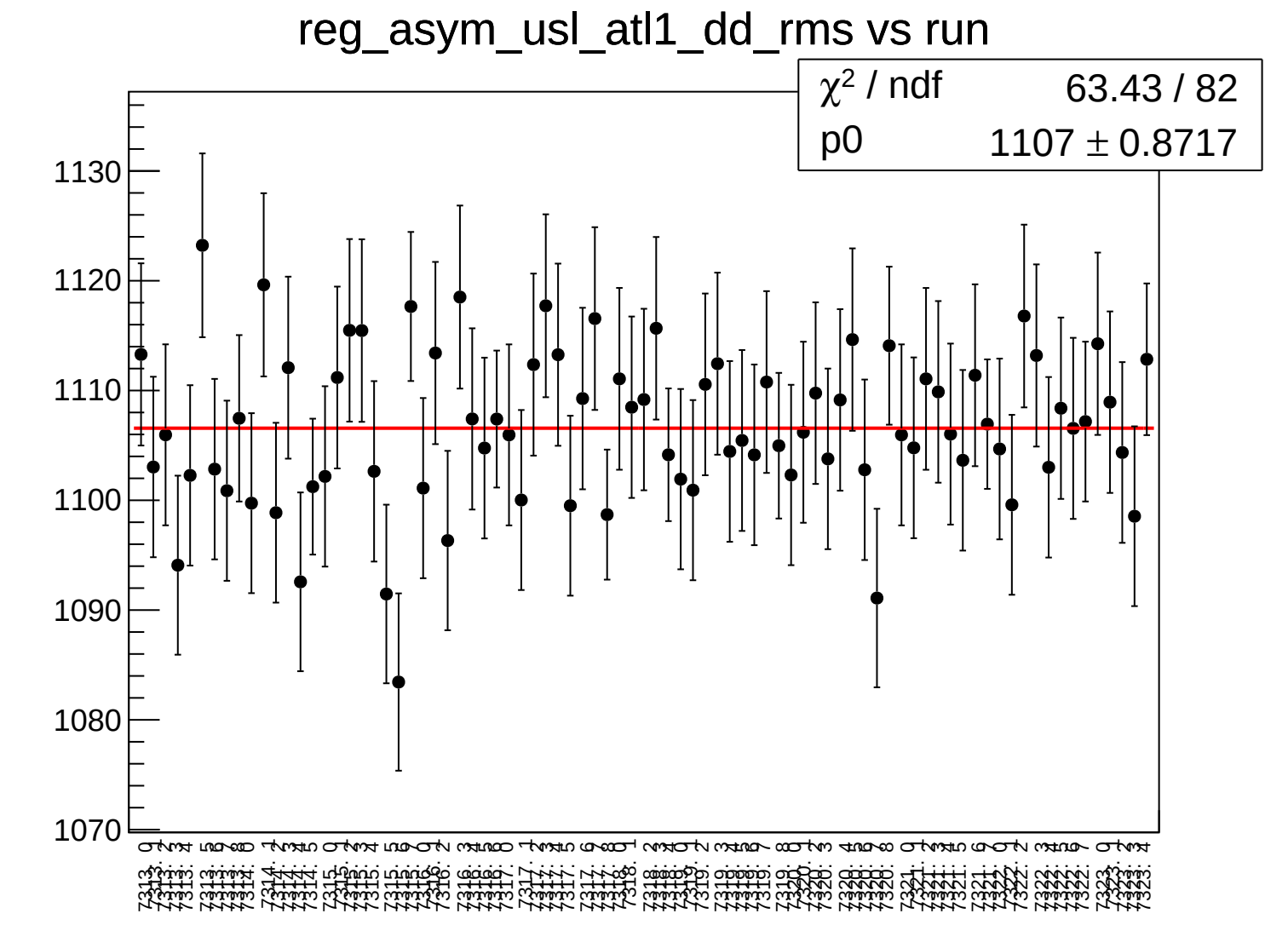

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.92 / 82
p0 −1.985e−14 ± 1.983e−14
pull
Entries 83
Mean 32.08
Std Dev 34.07

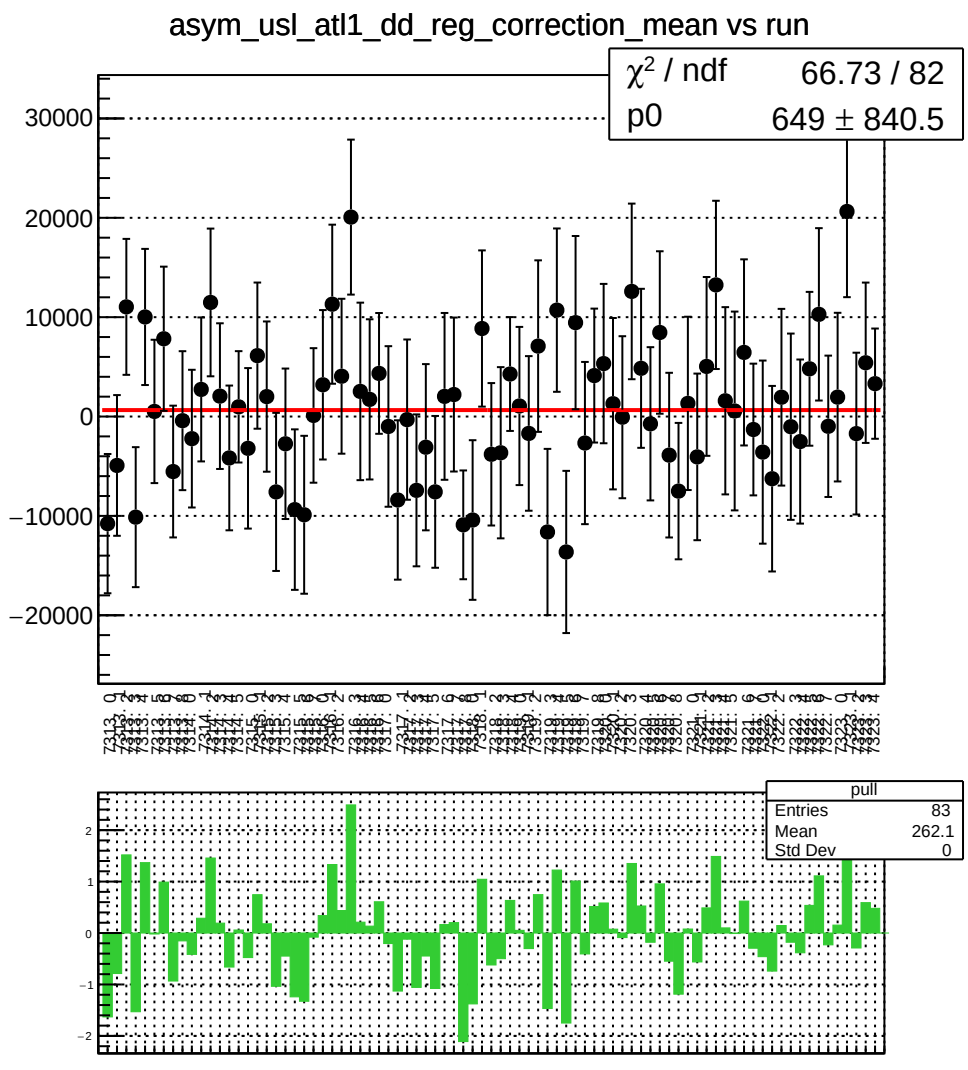

pull1D
Entries 83
Mean −0.04895
Std Dev 0.9739

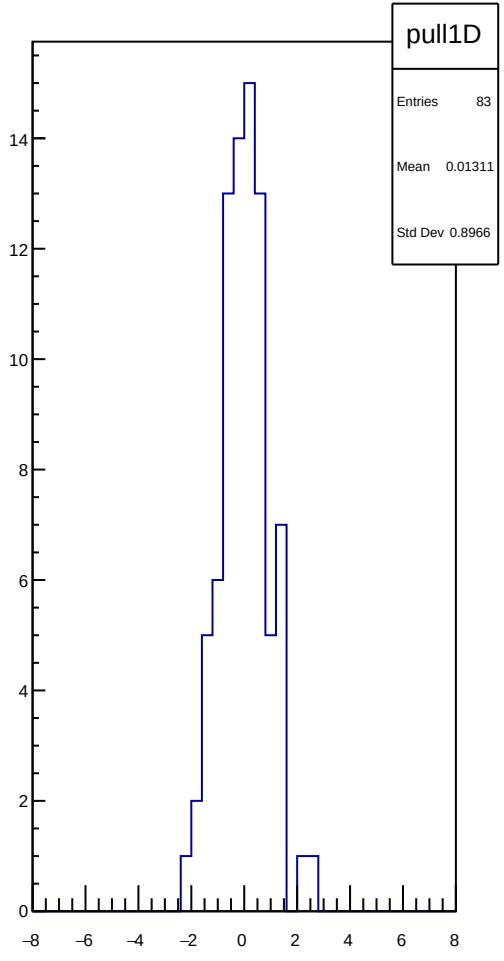

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.066e+05 / 82
p0 1.405e−11 ± 1.402e−14
90
80
70
60
50
40
30
20
10

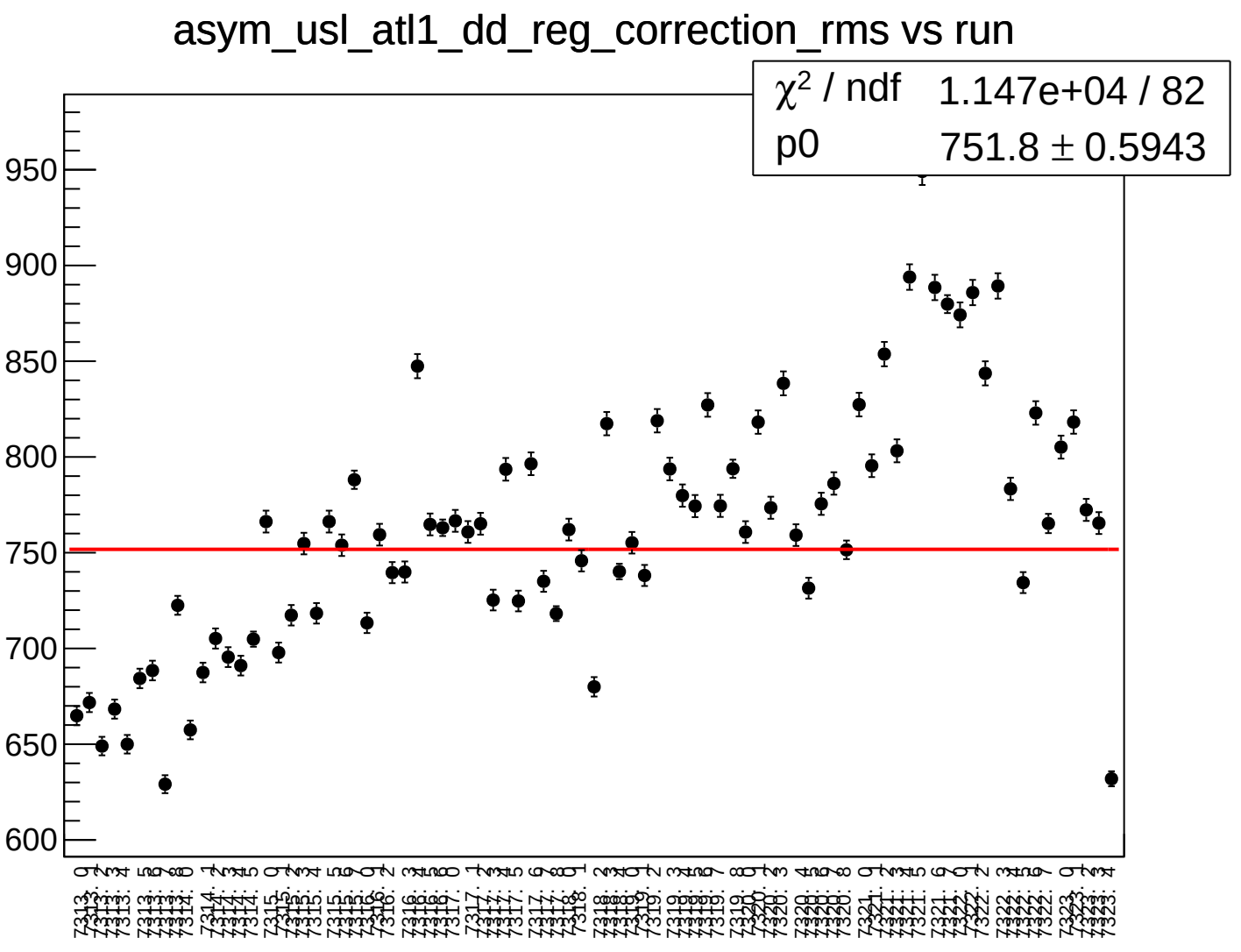

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.64 / 82
p0 −253.2 ± 1233
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 559
Std Dev 0
3
2
1
0
−1
−2

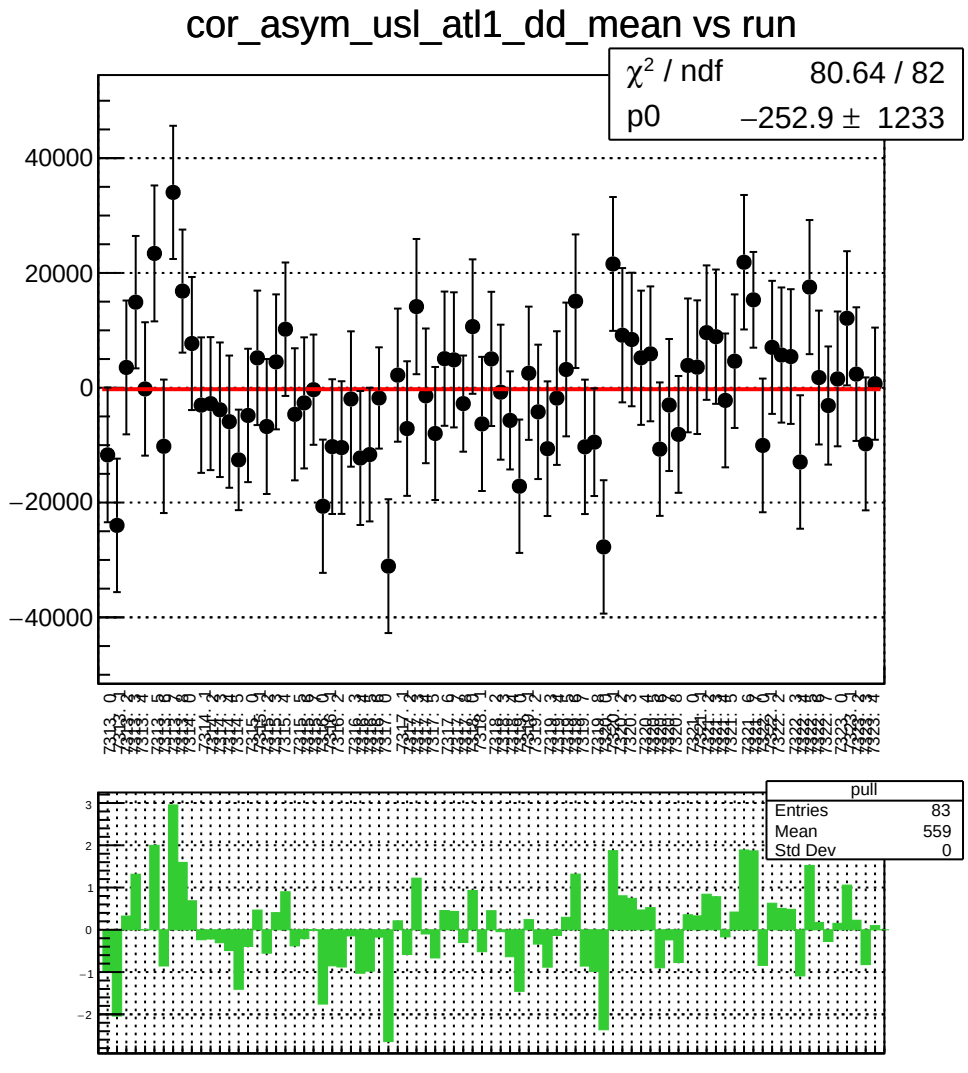

pull1D
Entries 83
Mean 0.00541
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

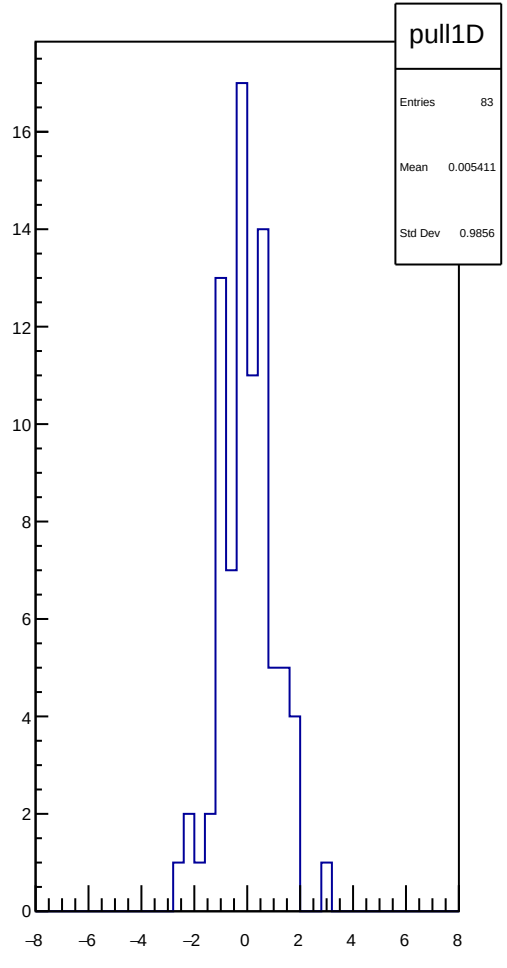

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 63.43 / 82
p0 1107 ± 0.8717
1130
1120
1110
1100
1090
1080
1070

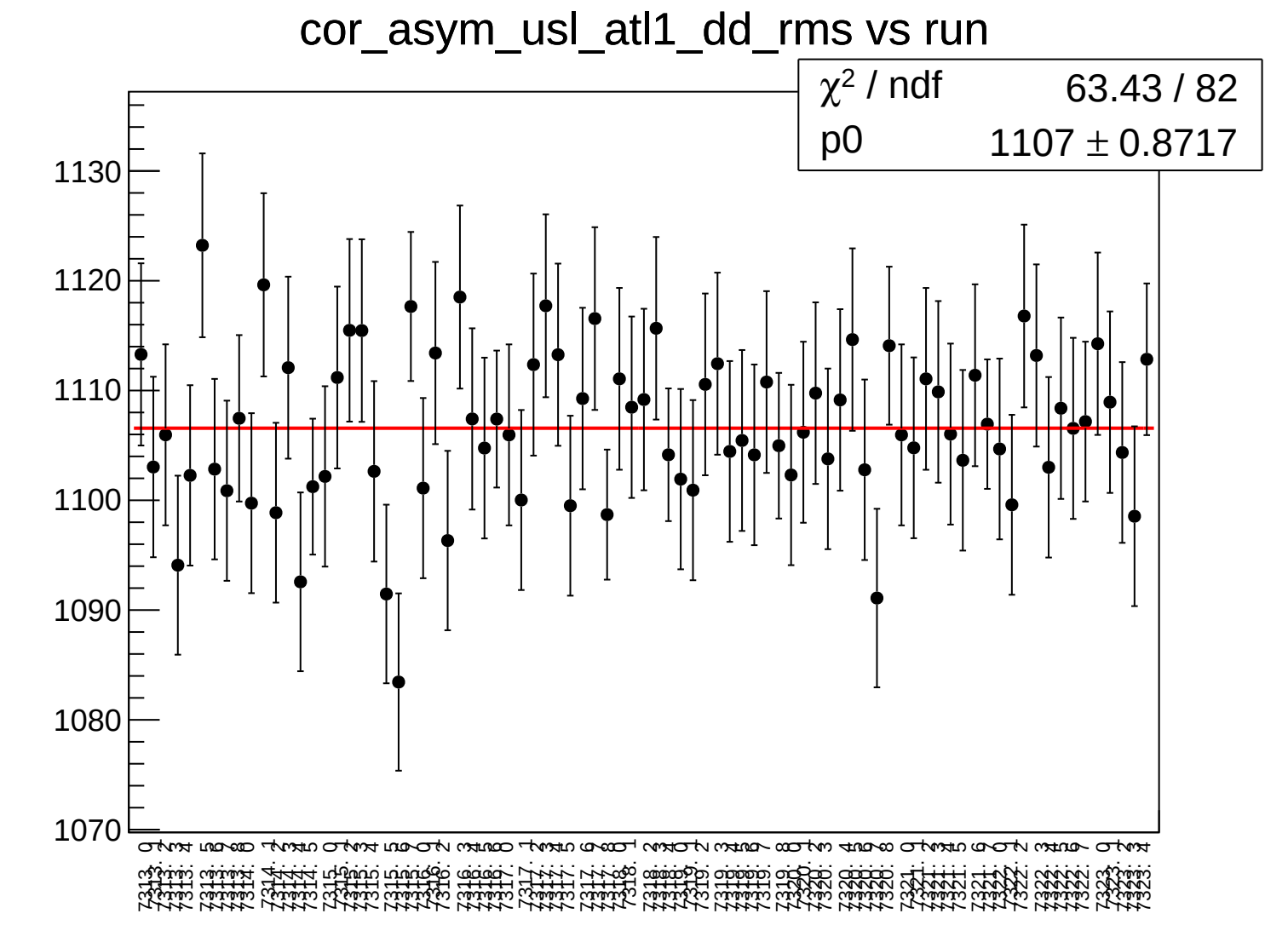

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 66.73 / 82
p0 649 ± 840.5
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 262.1
Std Dev 0
2
1
0
−1
−2

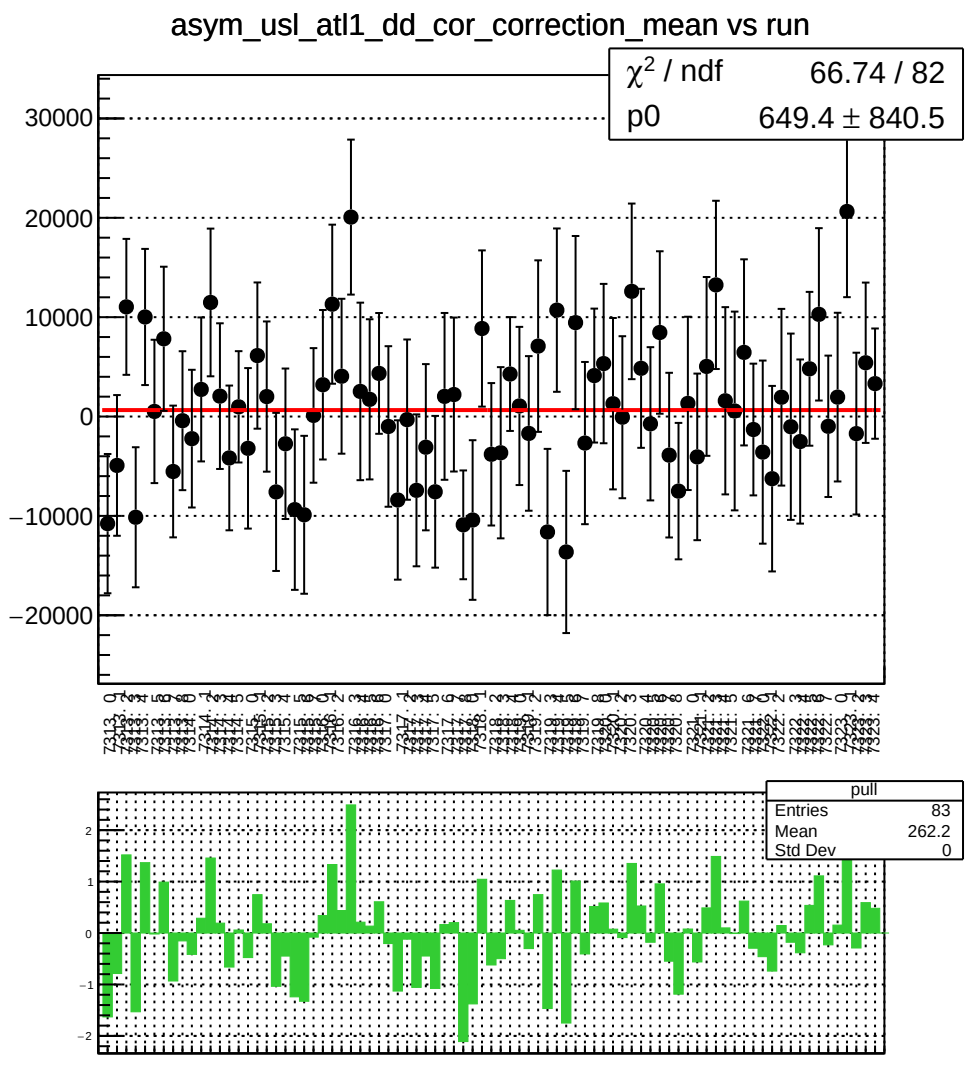

pull1D
Entries 83
Mean 0.01311
Std Dev 0.8966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

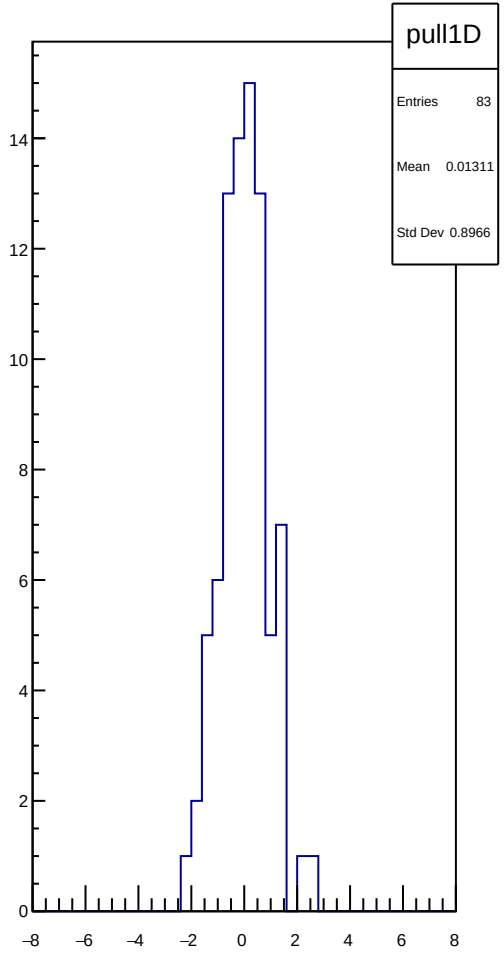

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.147e+04 / 82
p0 751.8 ± 0.5943
950
900
850
800
750
700
650
600

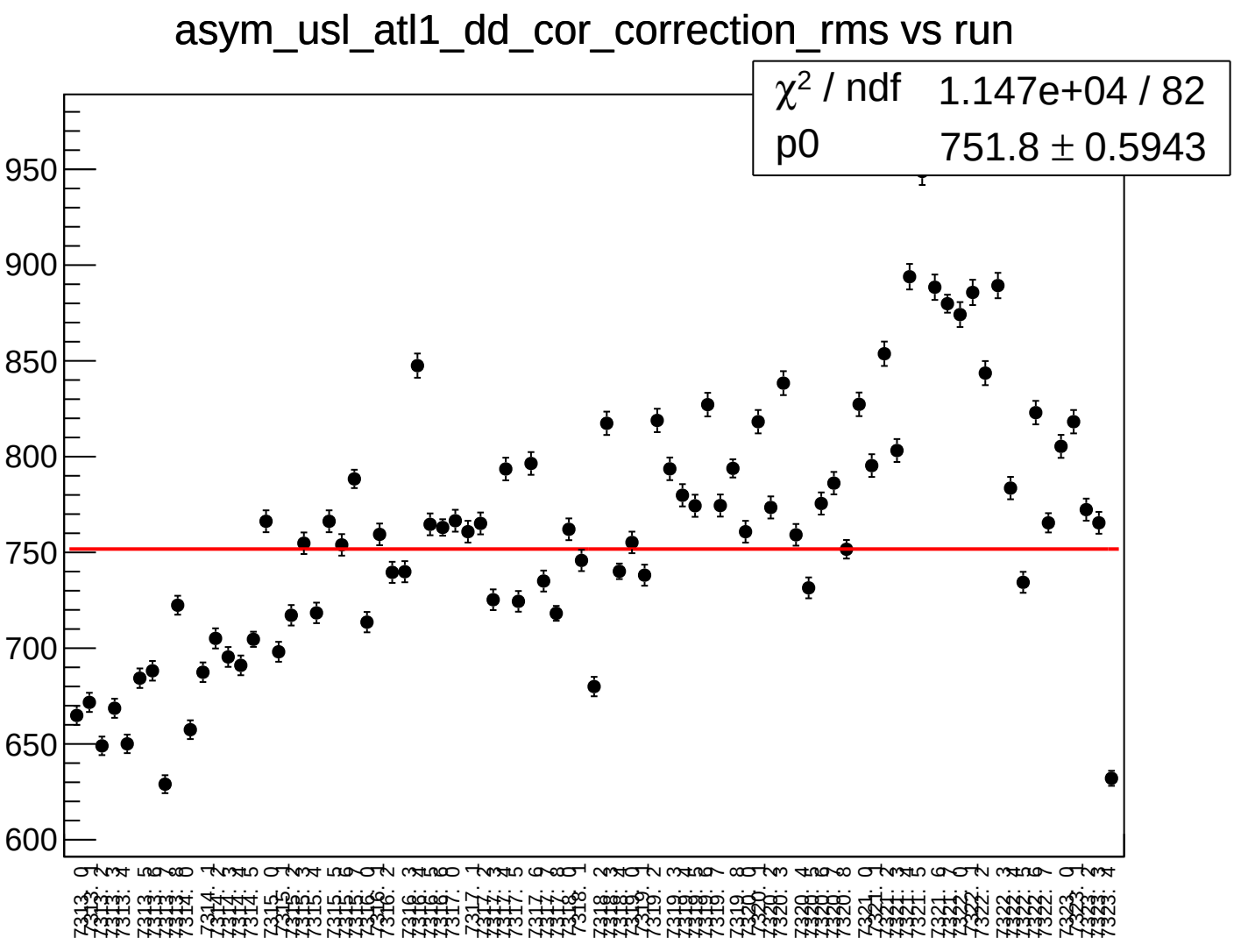

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.64 / 82
p0 −252.9 ± 1233
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 559
Std Dev 0
3
2
1
0
−1
−2

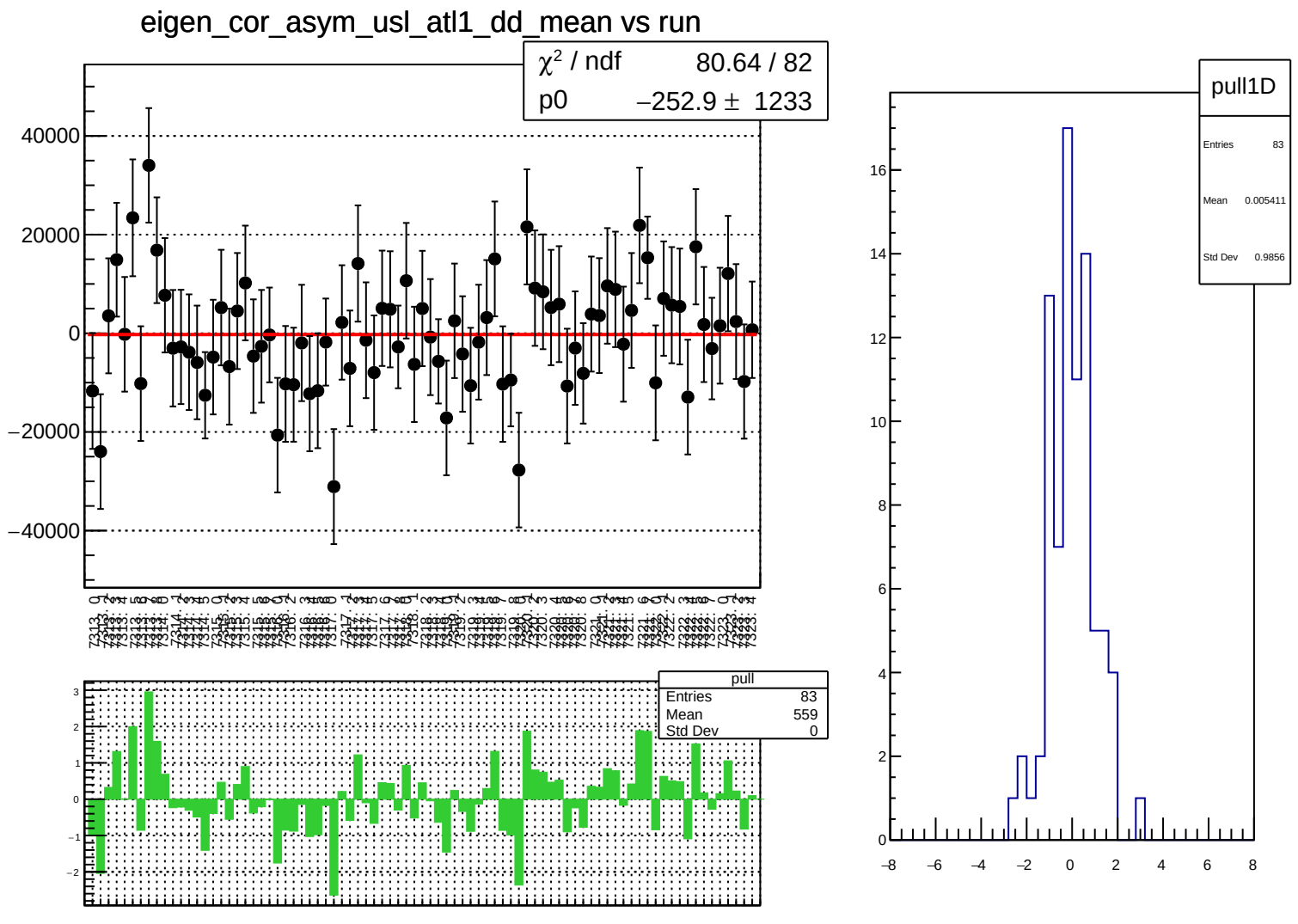

pull1D
Entries 83
Mean 0.005411
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

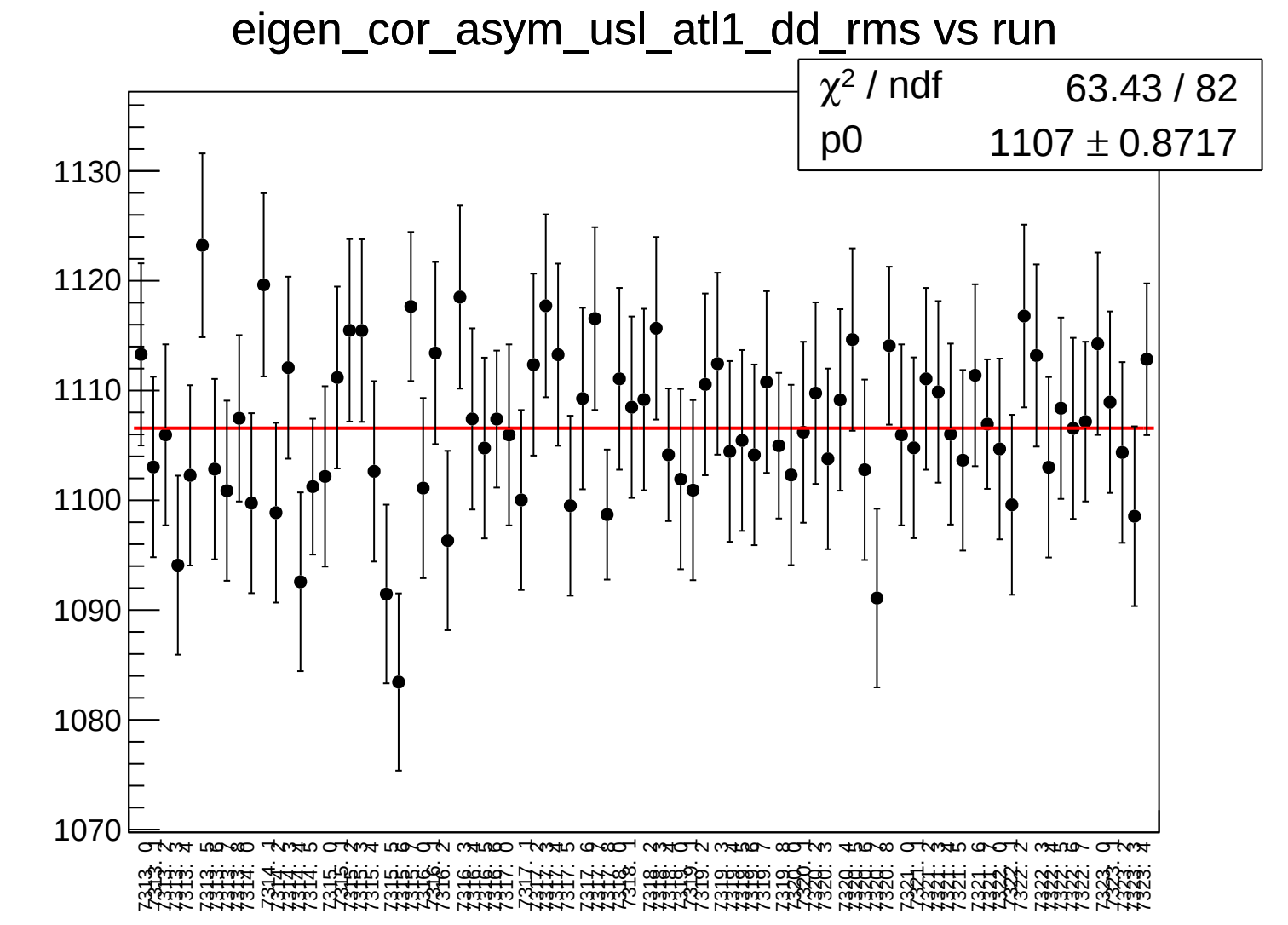

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 63.43 / 82
p0 1107 ± 0.8717
1130
1120
1110
1100
1090
1080
1070

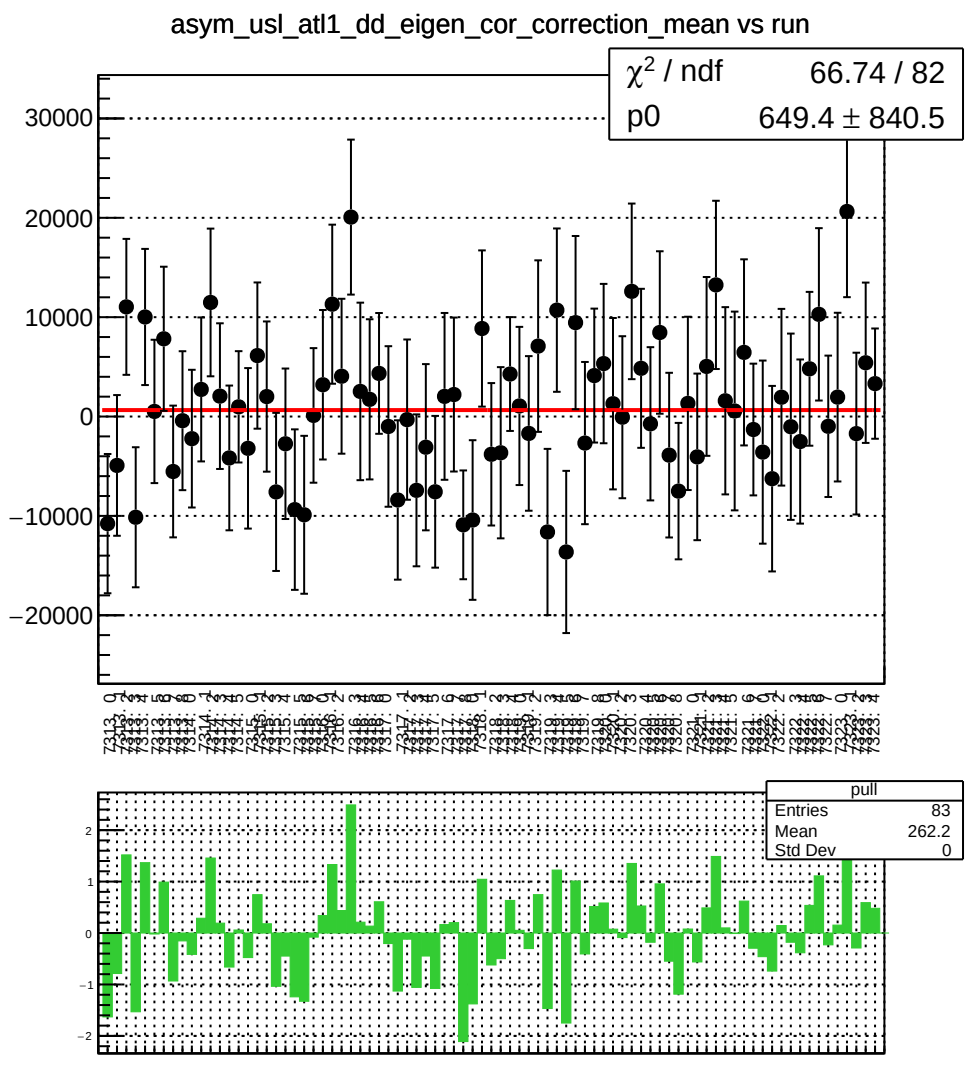

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 66.74 / 82
p0 649.4 ± 840.5
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 262.2
Std Dev 0
2
1
0
−1
−2

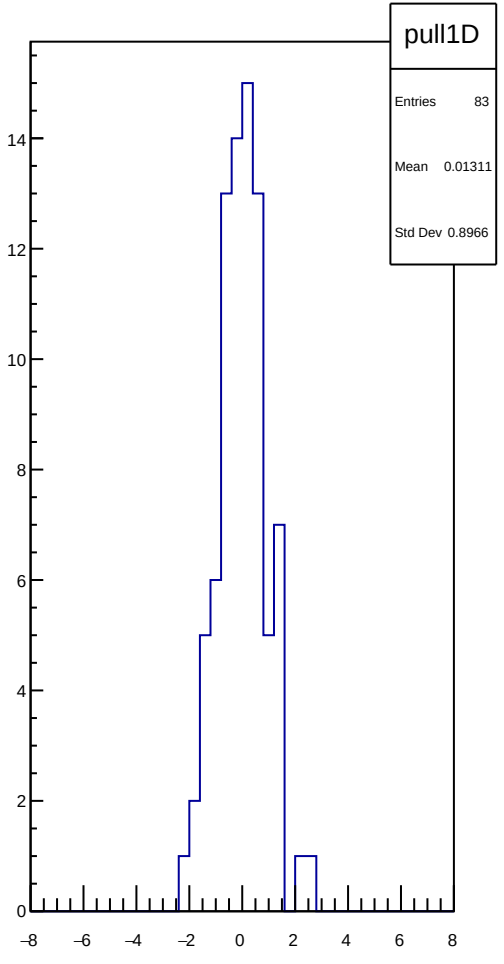

pull1D
Entries 83
Mean 0.01311
Std Dev 0.8966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

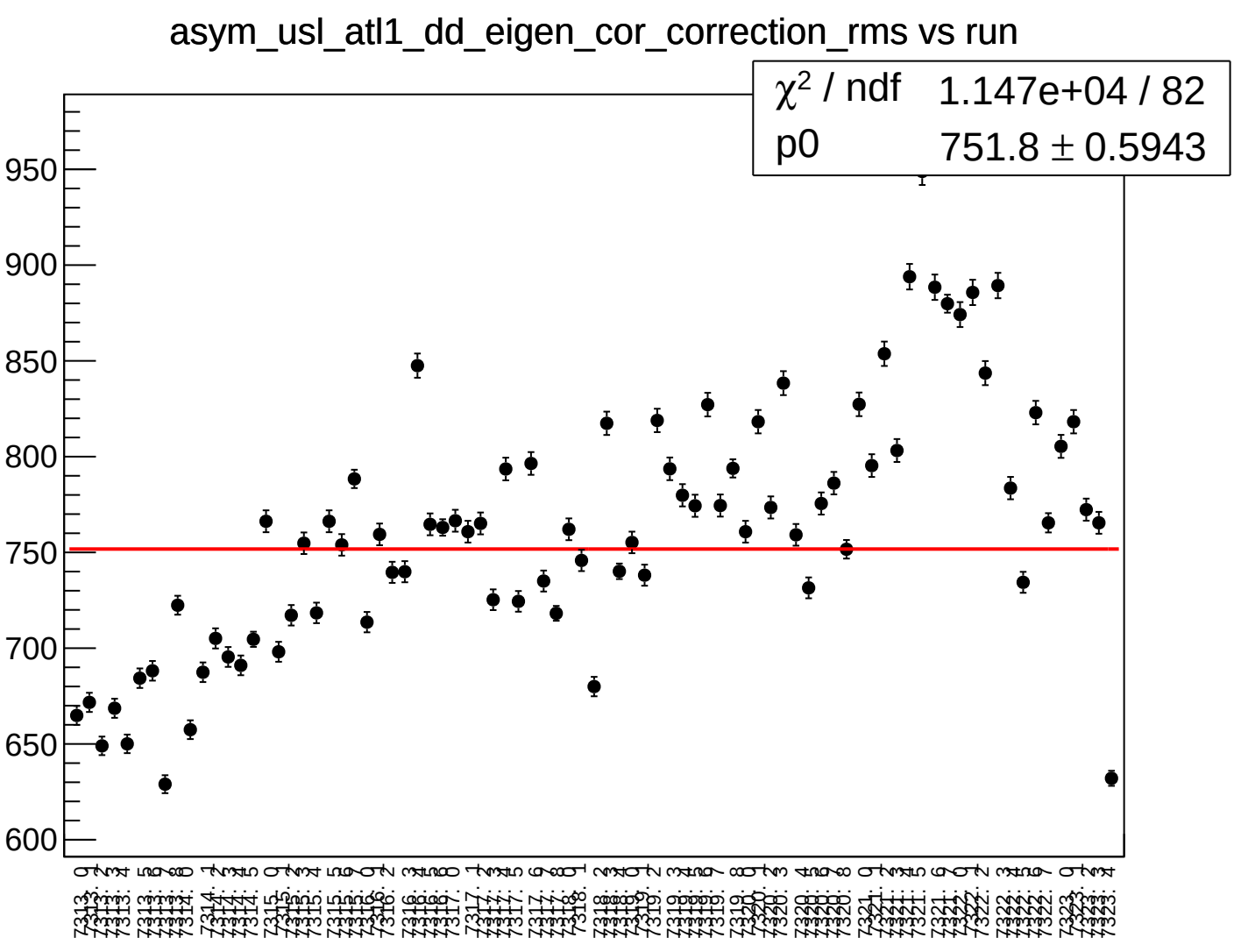

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.147e+04 / 82
p0 751.8 ± 0.5943
950
900
850
800
750
700
650
600

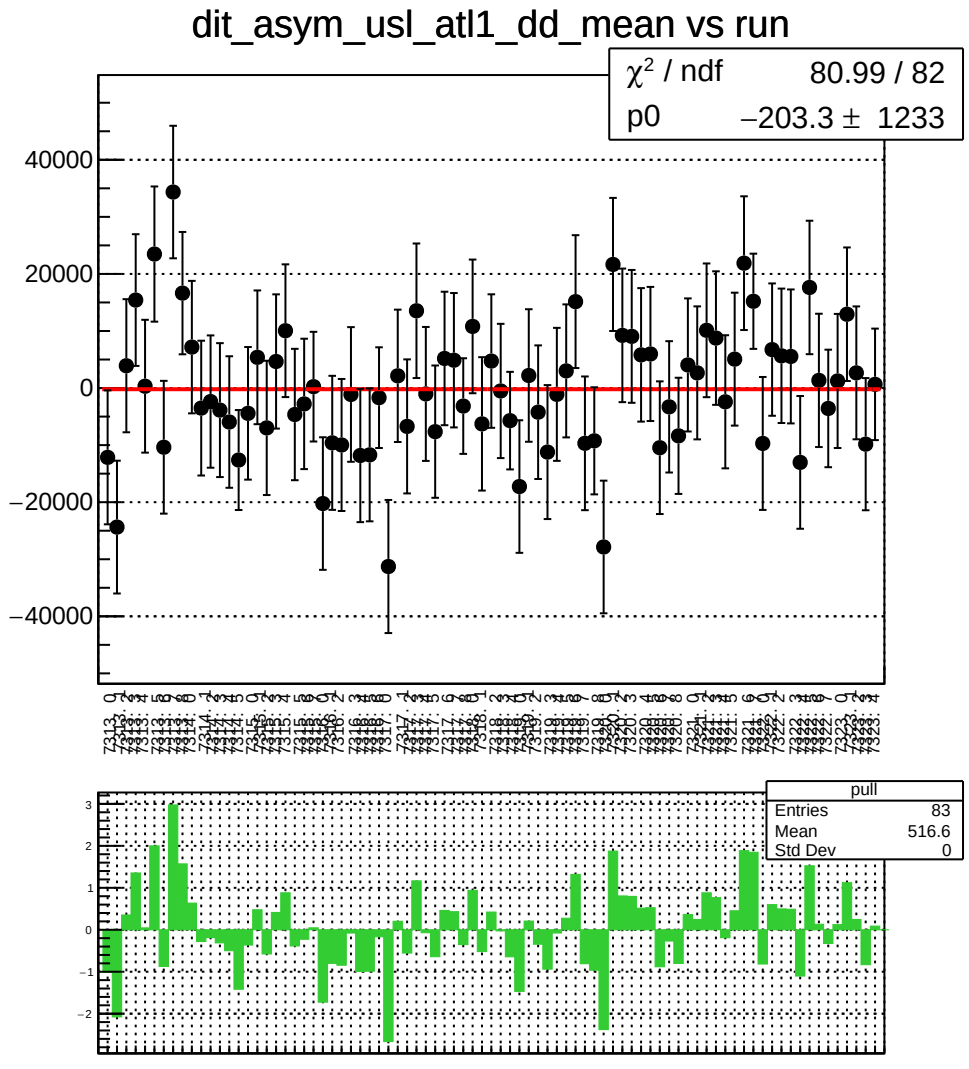

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.64 / 82
p0 −252.9 ± 1233
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 559
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.005411
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

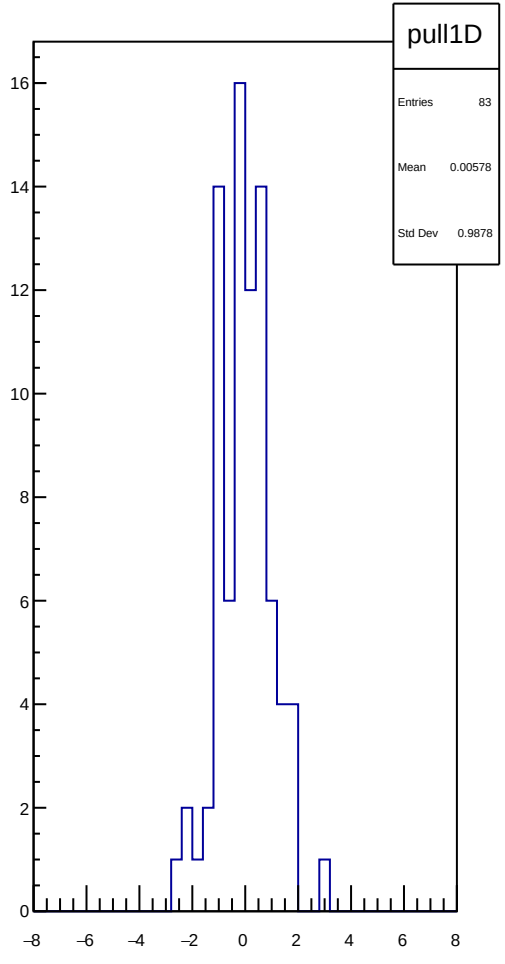

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 63.43 / 82
p0 1107 ± 0.8717
1130
1120
1110
1100
1090
1080
1070

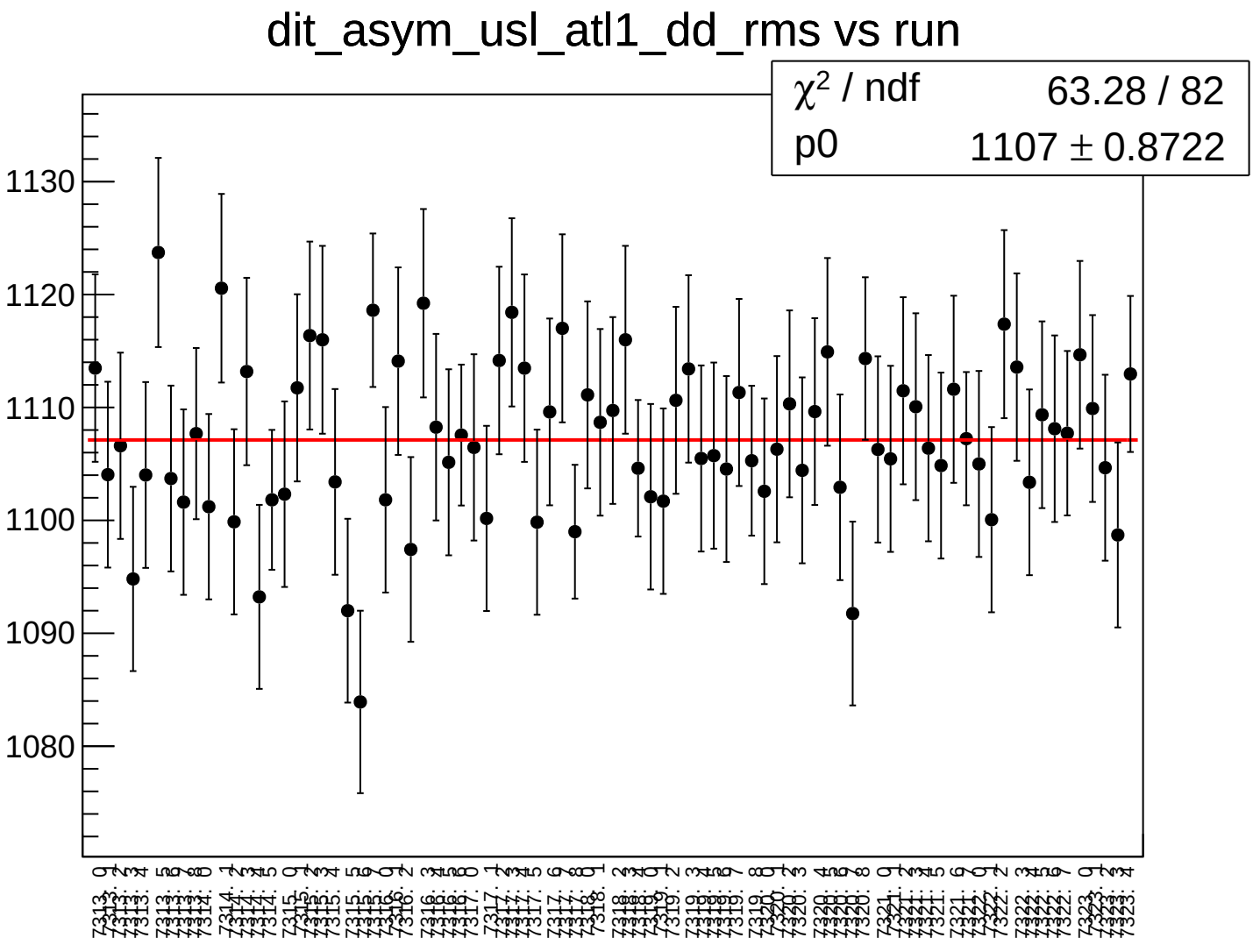

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.74 / 82
p0 649.4 ± 840.5
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 262.2
Std Dev 0
2
1
0
−1
−2

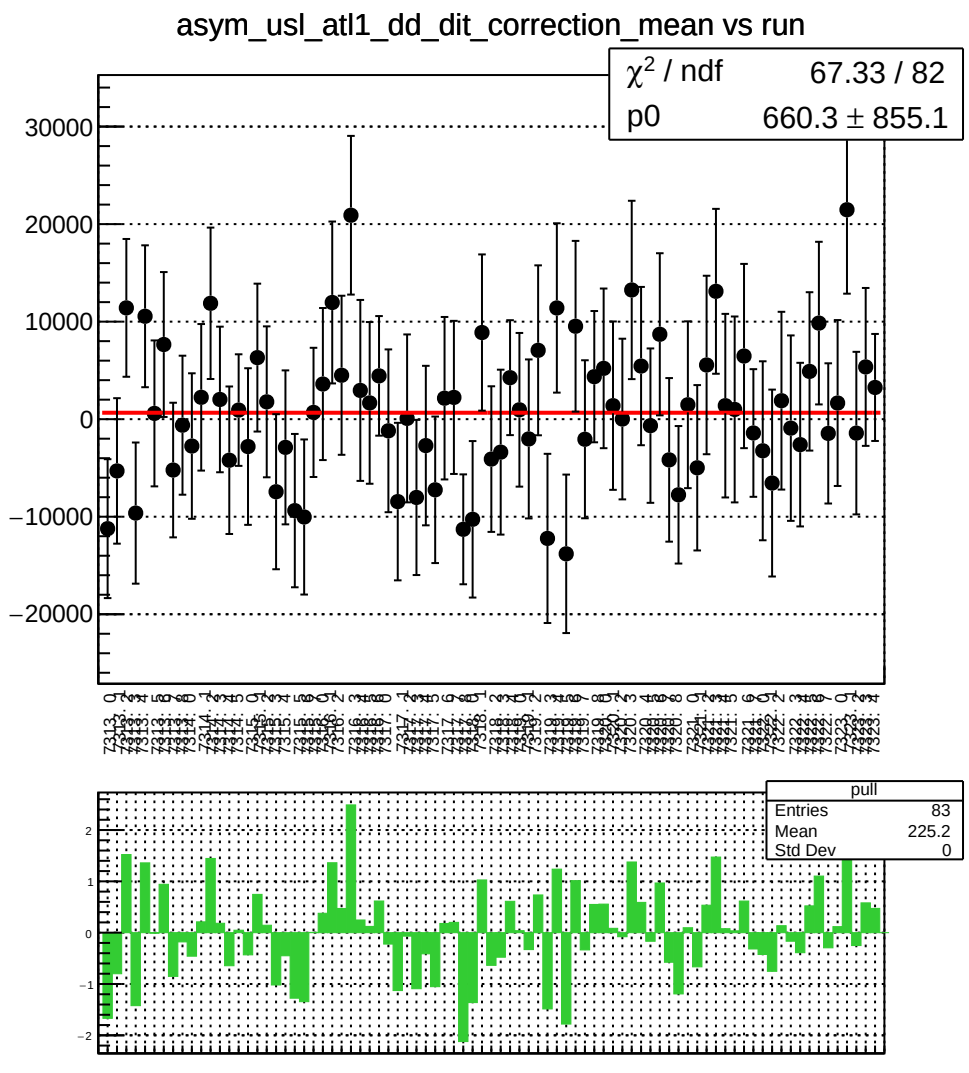

pull1D
Entries 83
Mean 0.01311
Std Dev 0.8966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

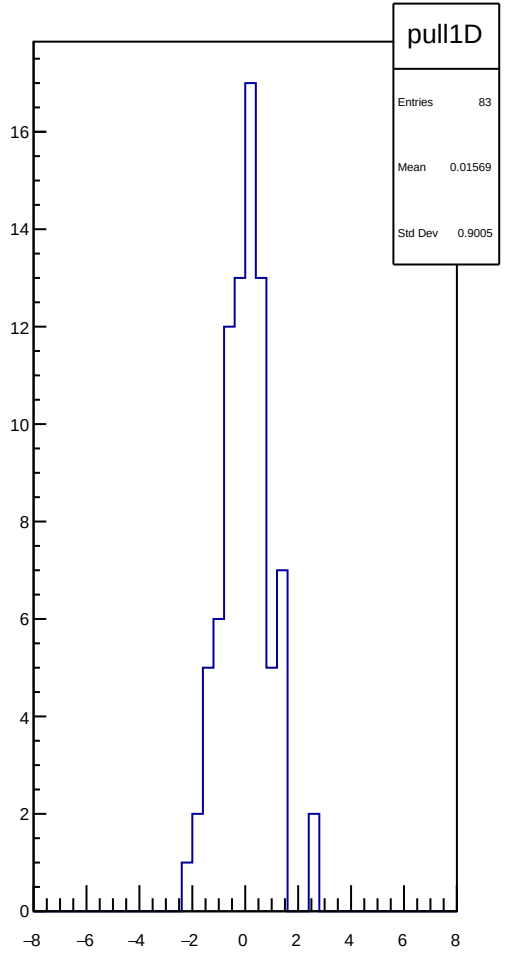

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.147e+04 / 82
p0 751.8 ± 0.5943
950
900
850
800
750
700
650
600

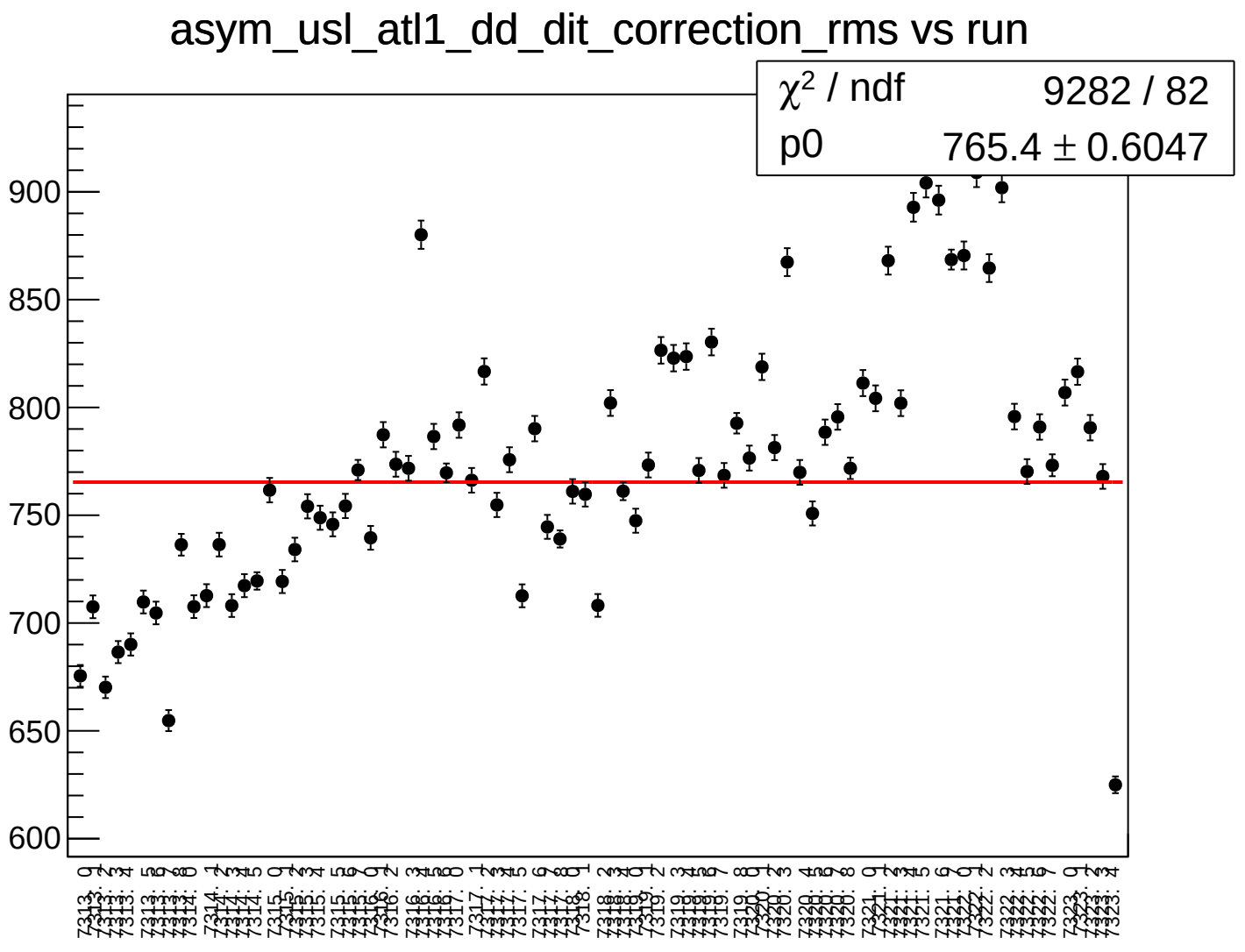

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.99 / 82
p0 −203.3 ± 1233
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 516.6
Std Dev 0
3
2
1
0
−1
−2

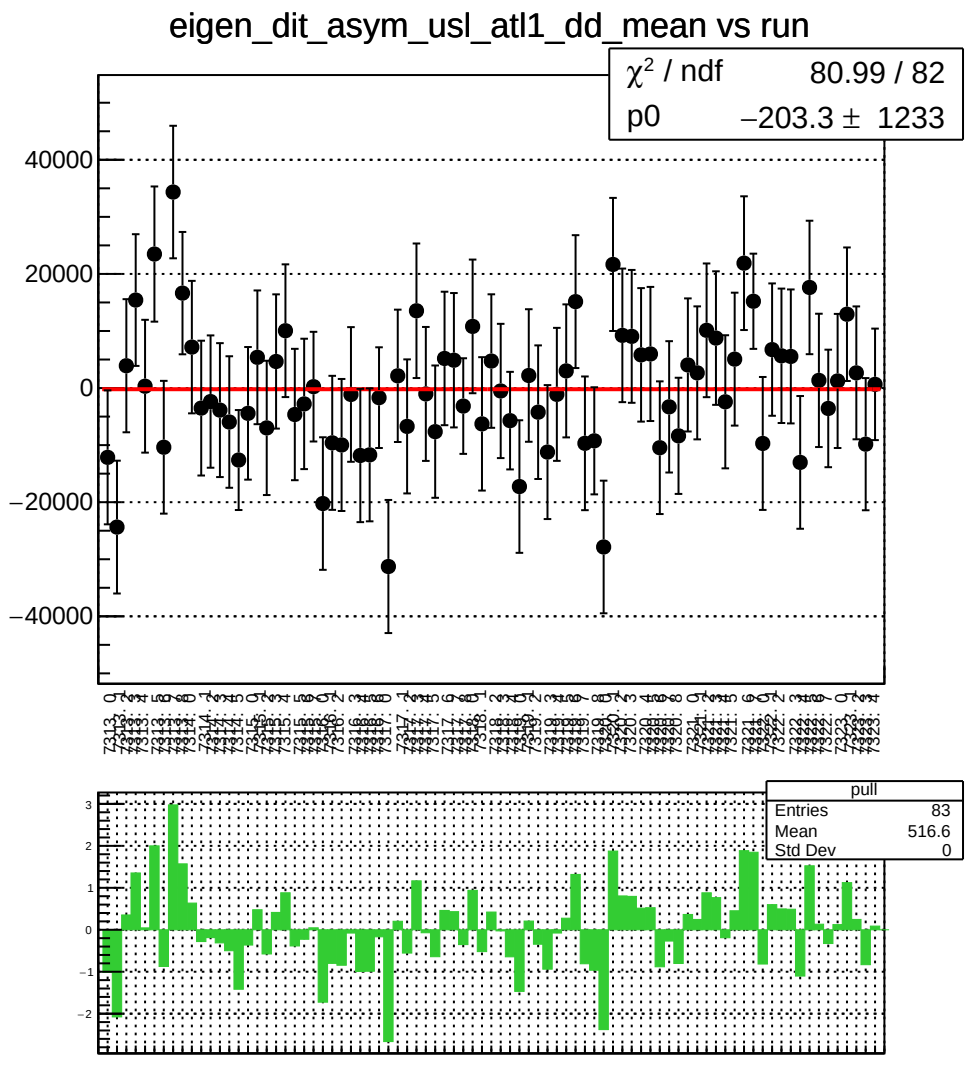

pull1D
Entries 83
Mean 0.00578
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

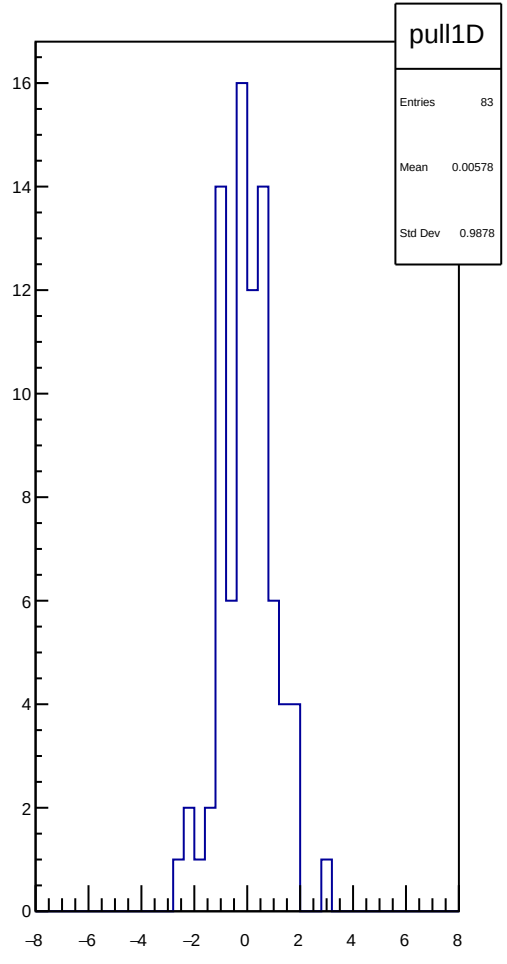

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 63.28 / 82
p0 1107 ± 0.8722
1130
1120
1110
1100
1090
1080

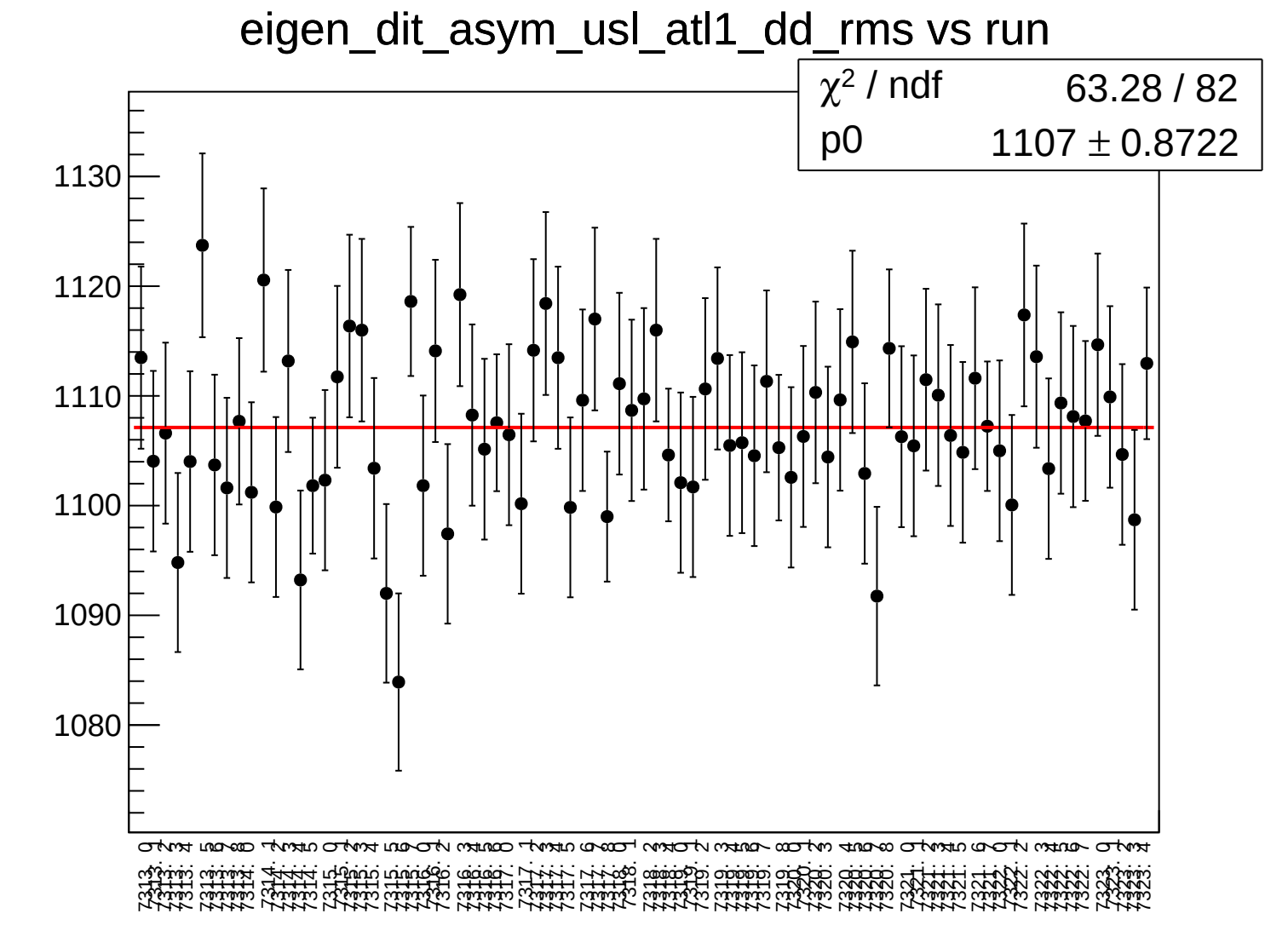

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 67.33 / 82
p0 660.3 ± 855.1
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 225.2
Std Dev 0
2
1
0
−1
−2

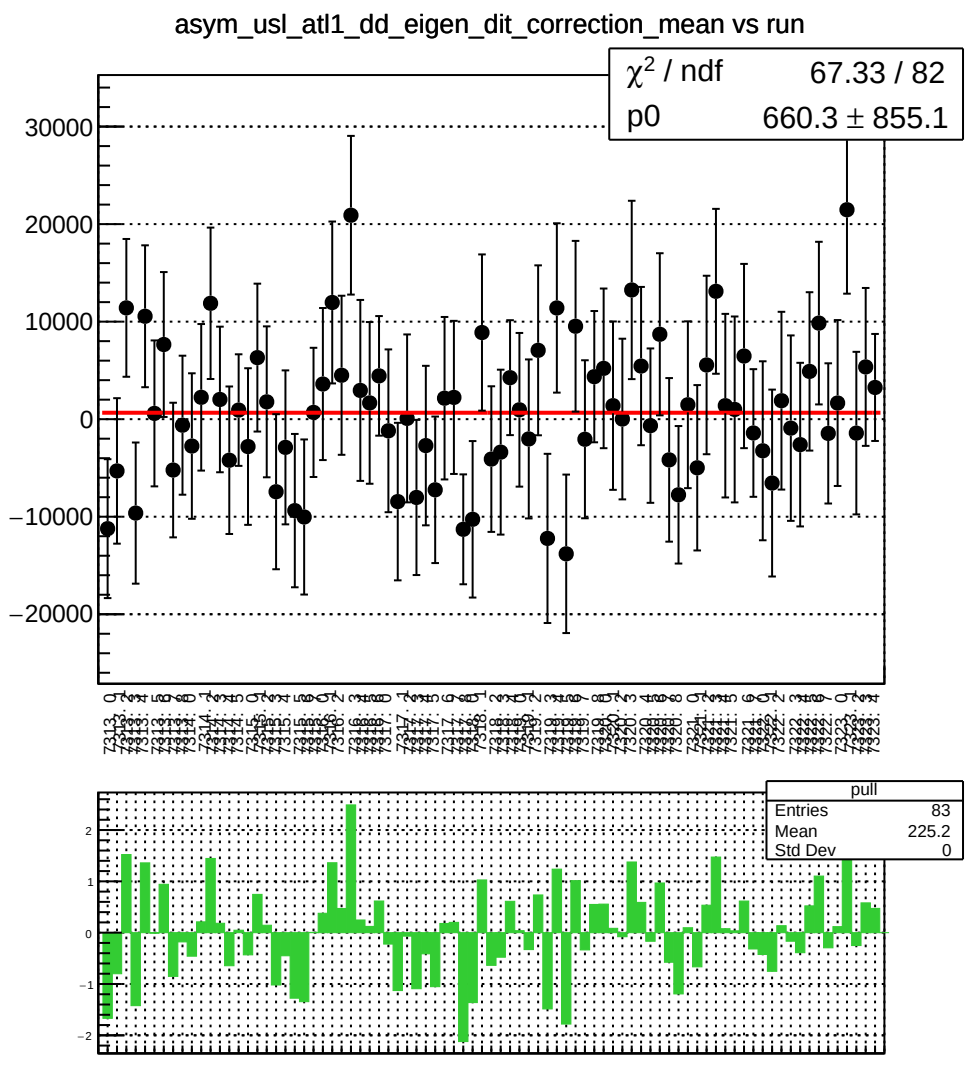

pull1D
Entries 83
Mean 0.01569
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

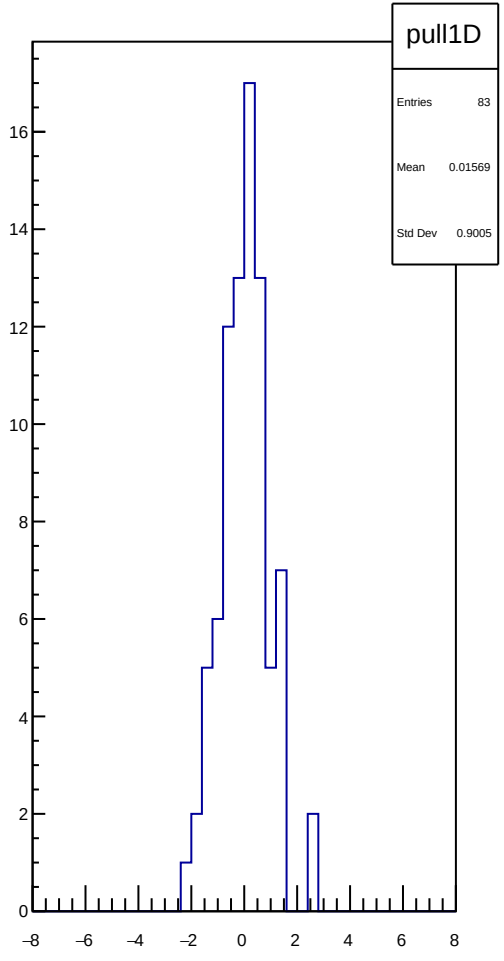

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 9282 / 82
p0 765.4 ± 0.6047
900
850
800
750
700
650
600

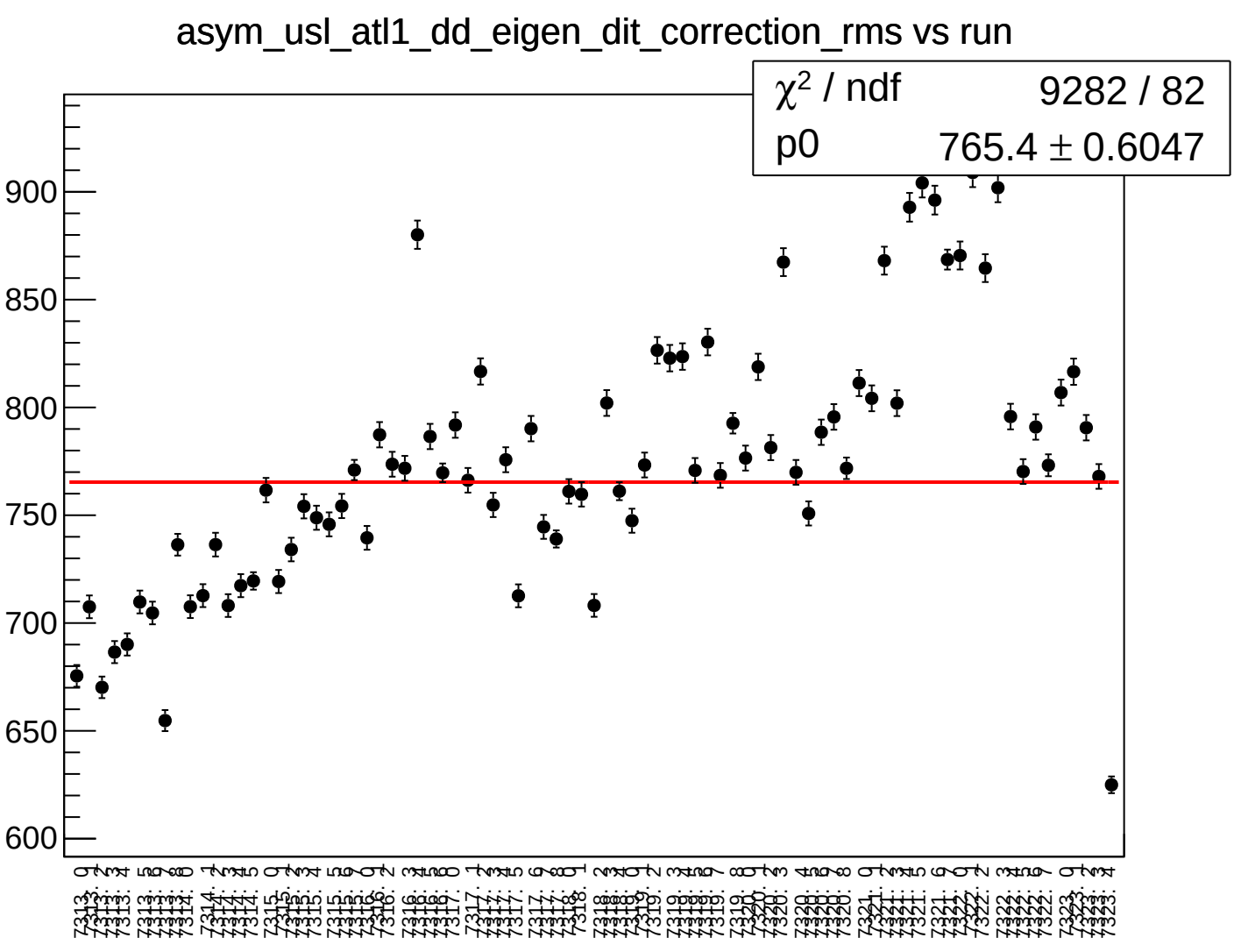

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.99 / 82
p0 −203.3 ± 1233
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 516.6
Std Dev 0
3
2
1
0
−1
−2

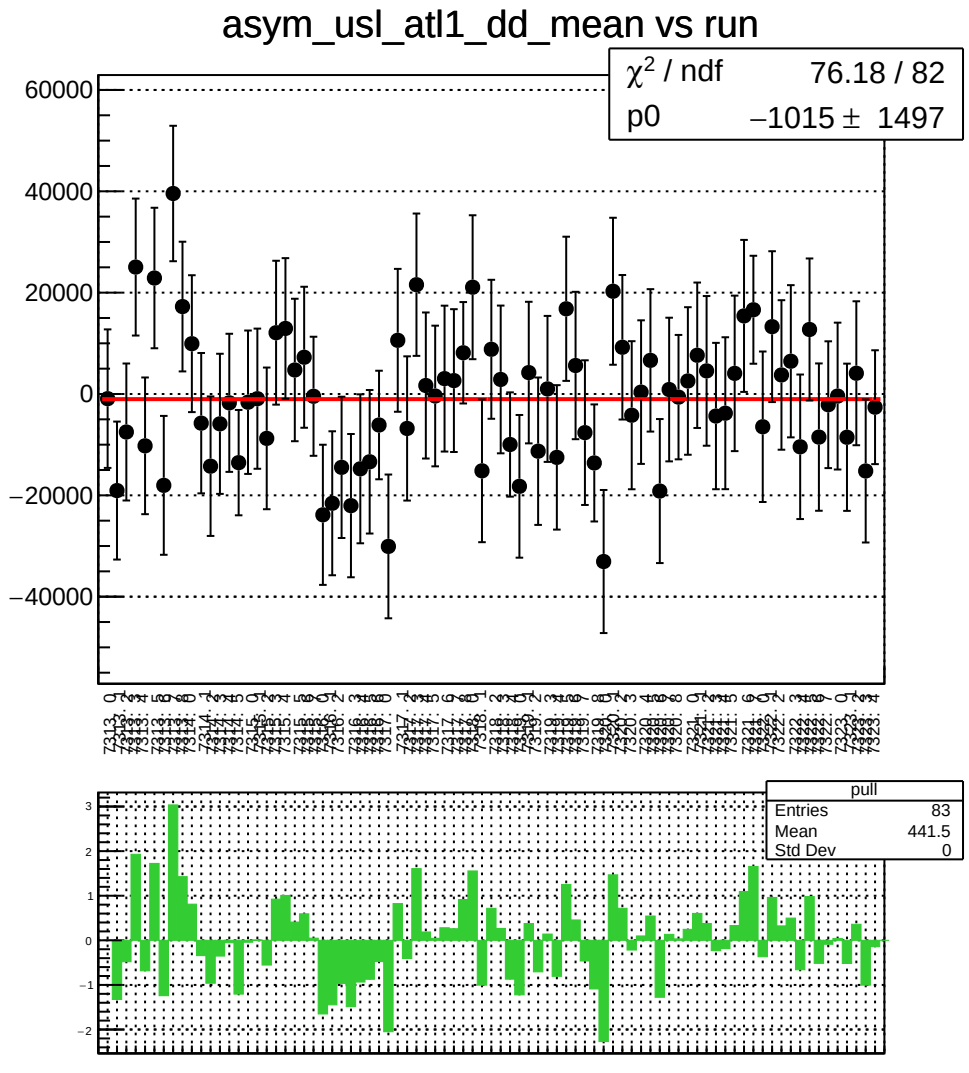

pull1D
Entries 83
Mean 0.00578
Std Dev 0.9878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

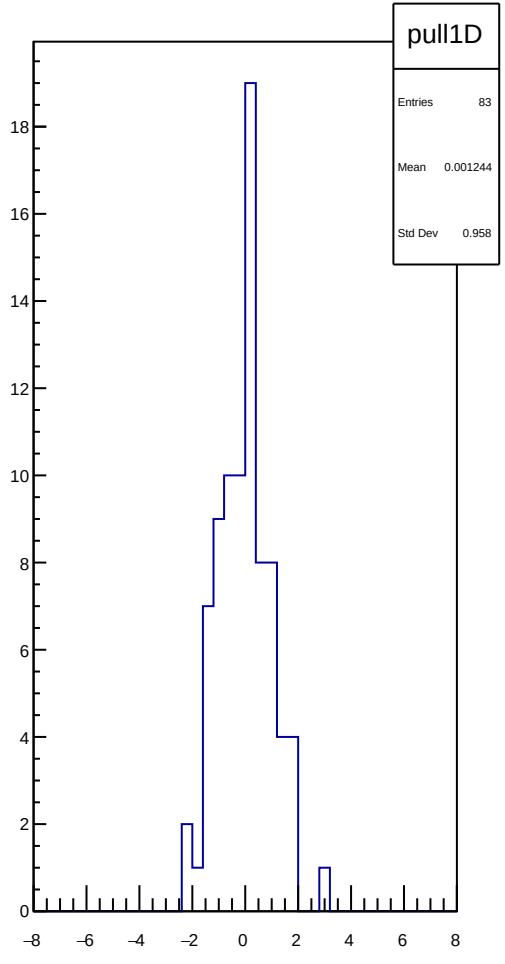

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 63.28 / 82
p0 1107 ± 0.8722
1130
1120
1110
1100
1090
1080

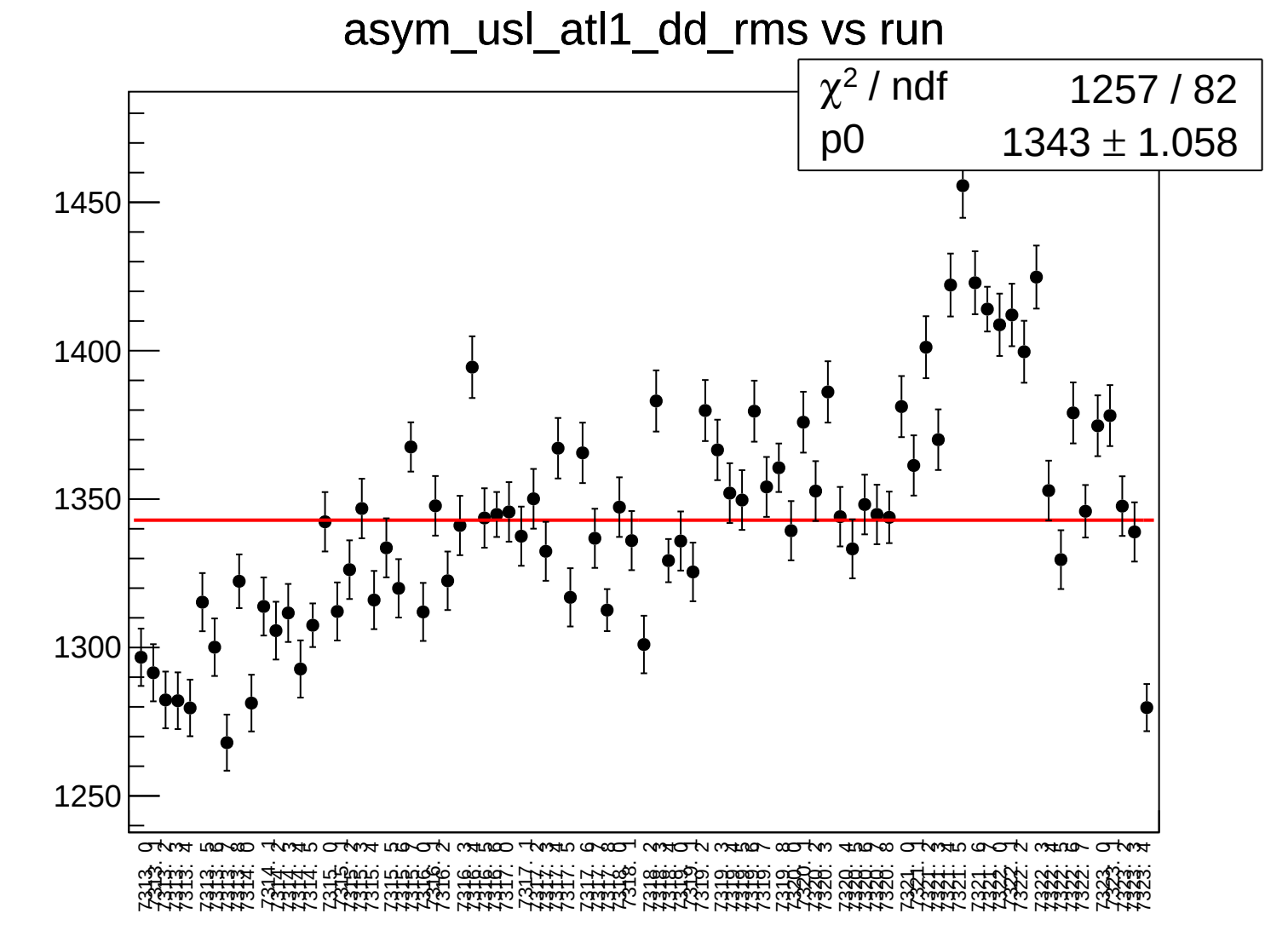

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.33 / 82
p0 660.3 ± 855.1
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 225.2
Std Dev 0
2
1
0
−1
−2

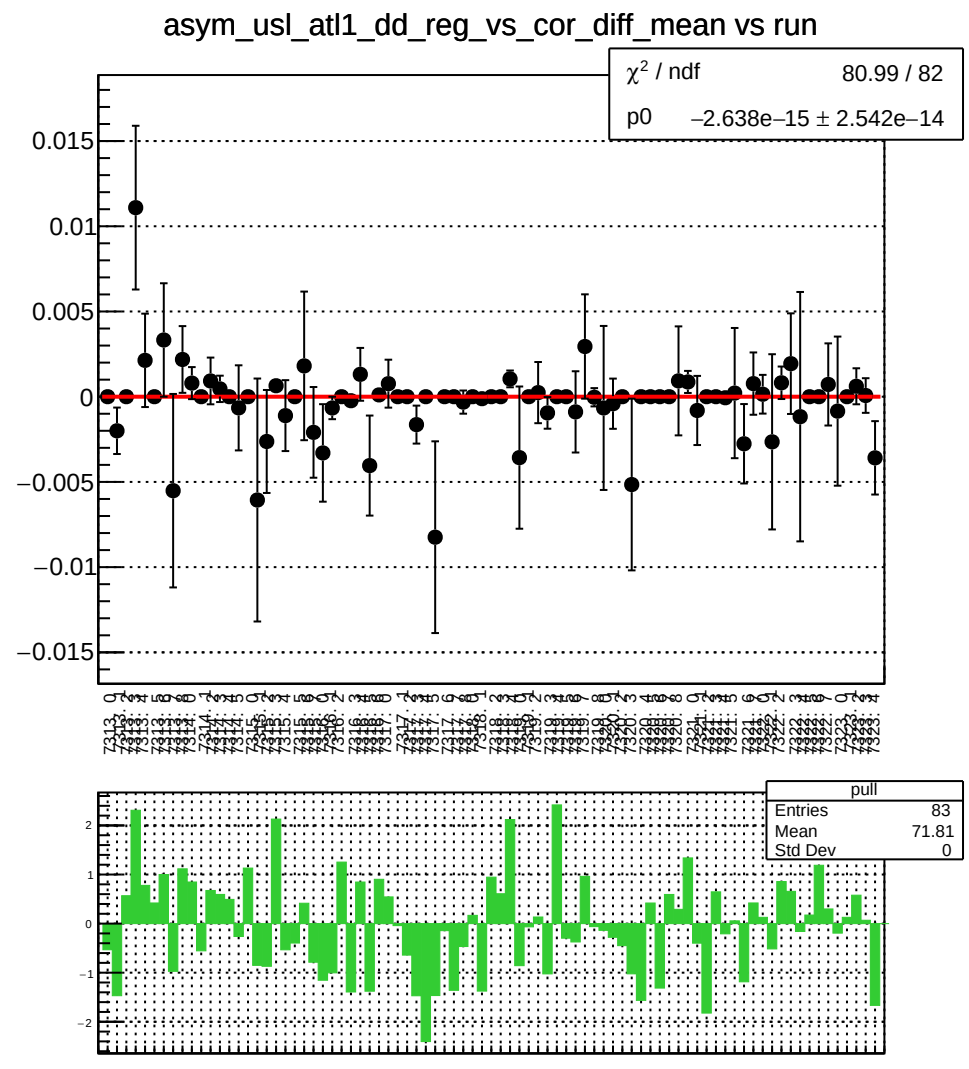

pull1D
Entries 83
Mean 0.01569
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

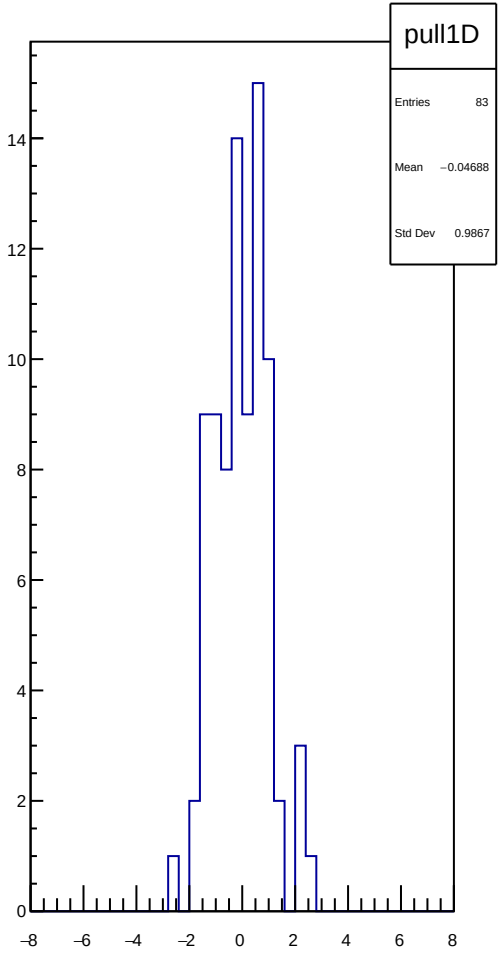

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 9282 / 82
p0 765.4 ± 0.6047
900
850
800
750
700
650
600

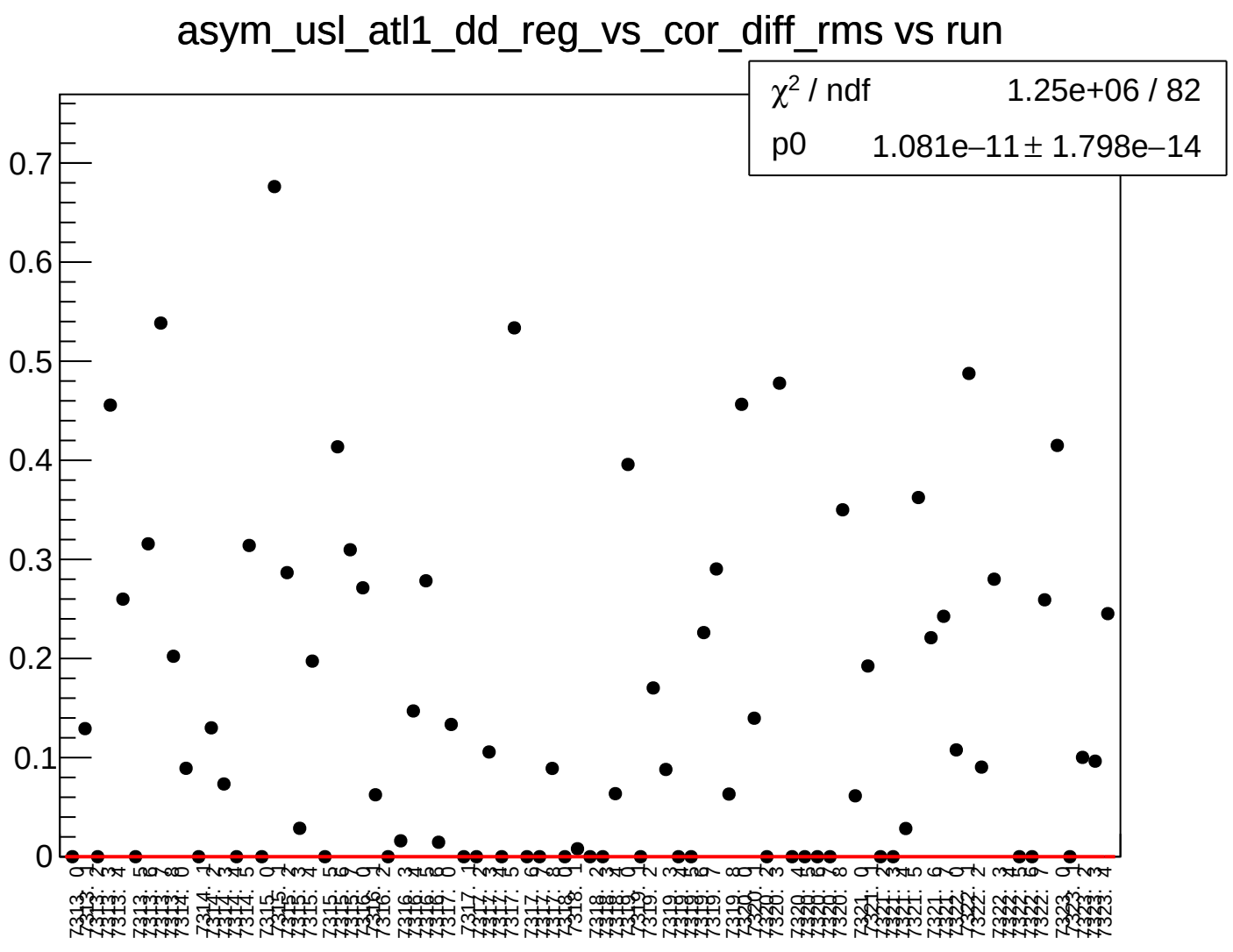

asym_usl_atl1_dd_mean vs run
χ² / ndf 76.18 / 82
p0 −1015 ± 1497
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 441.5
Std Dev 0
3
2
1
0
−1
−2

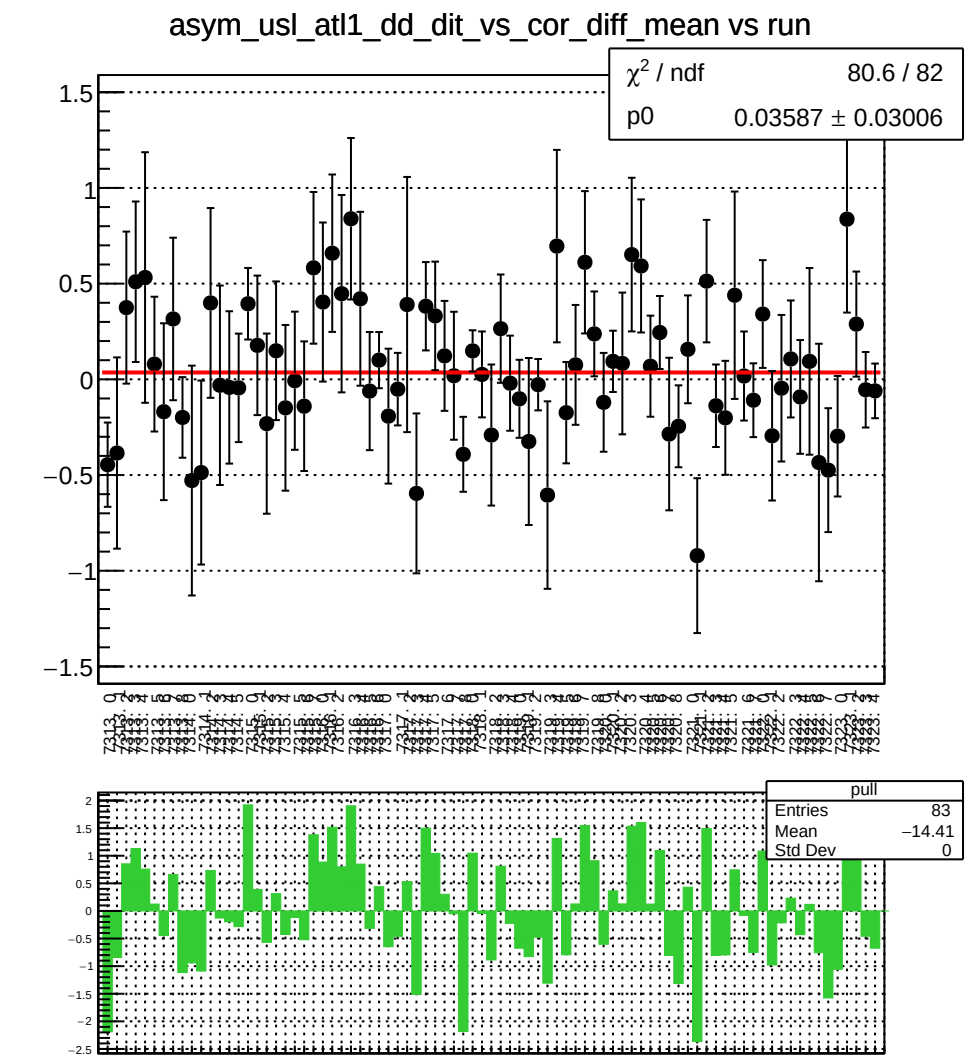

pull1D
Entries 83
Mean 0.001244
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

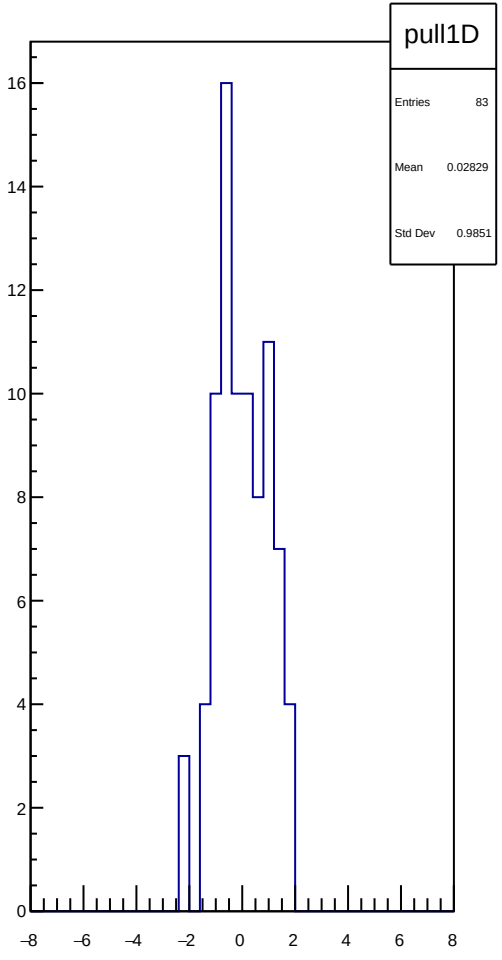

asym_usl_atl1_dd_rms vs run
χ² / ndf 1257 / 82
p0 1343 ± 1.058
1450
1400
1350
1300
1250

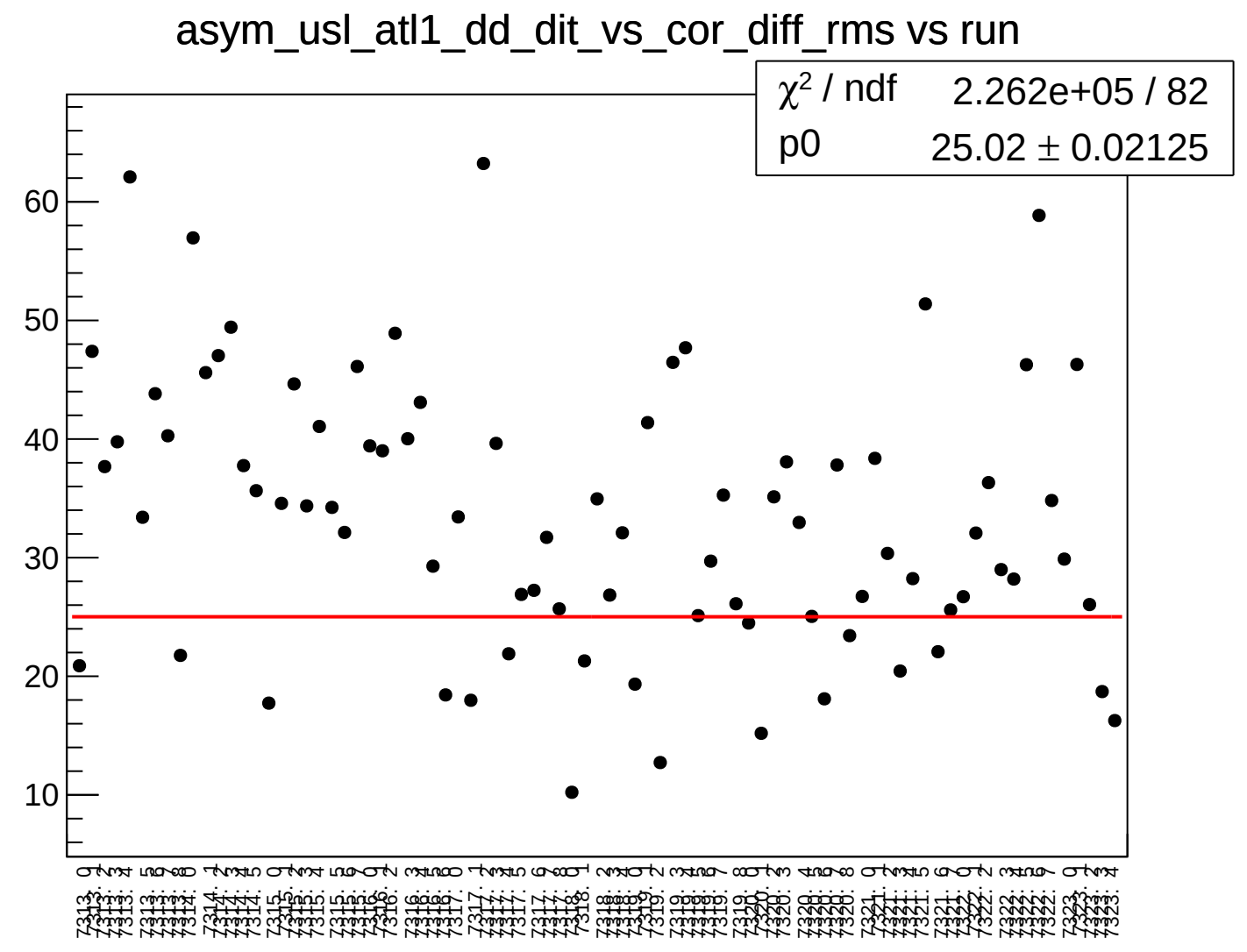

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.99 / 82
p0 −2.638e−15 ± 2.542e−14
pull
Entries 83
Mean 71.81
Std Dev 0

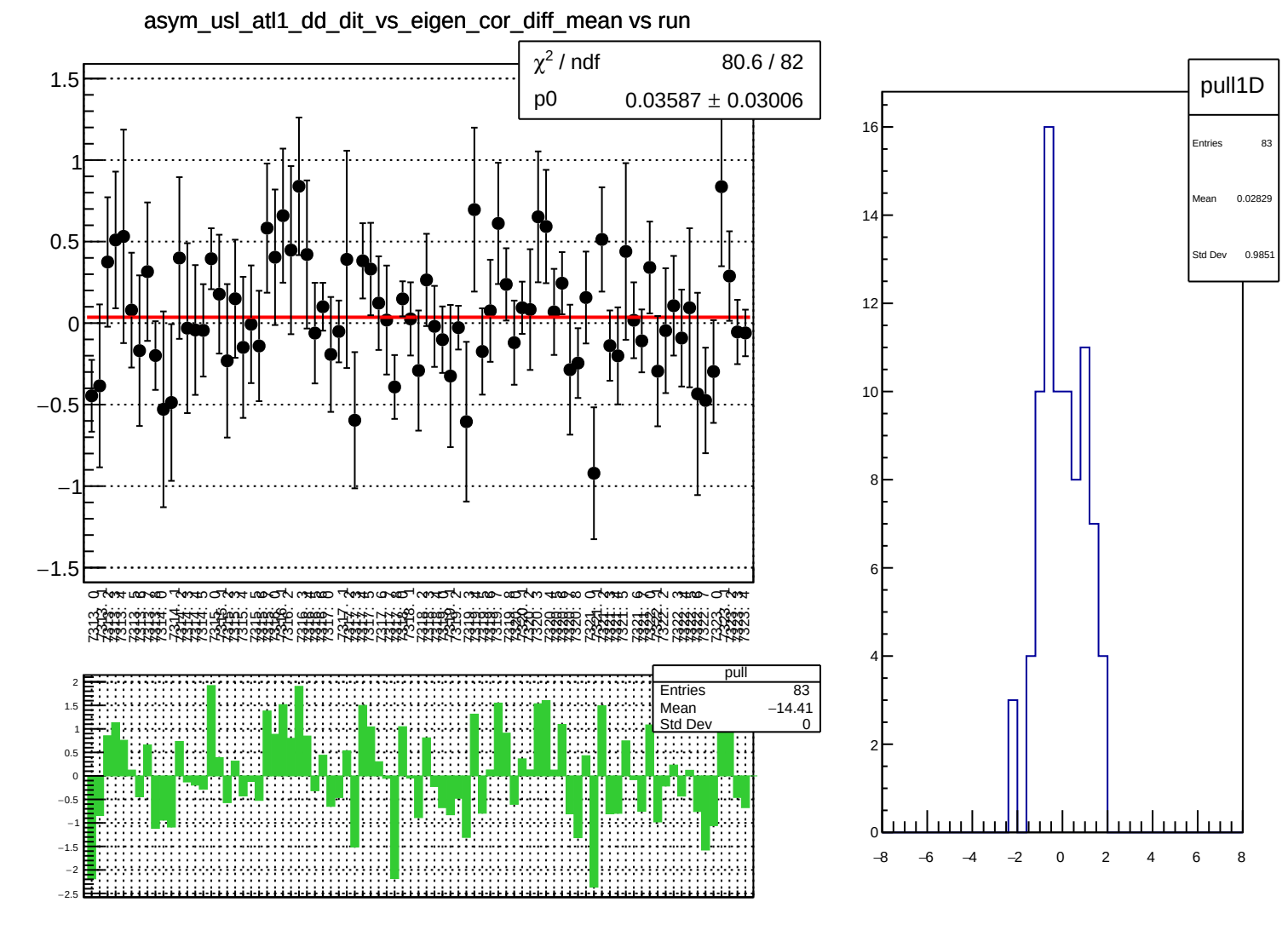

pull1D
Entries 83
Mean −0.04688
Std Dev 0.9867

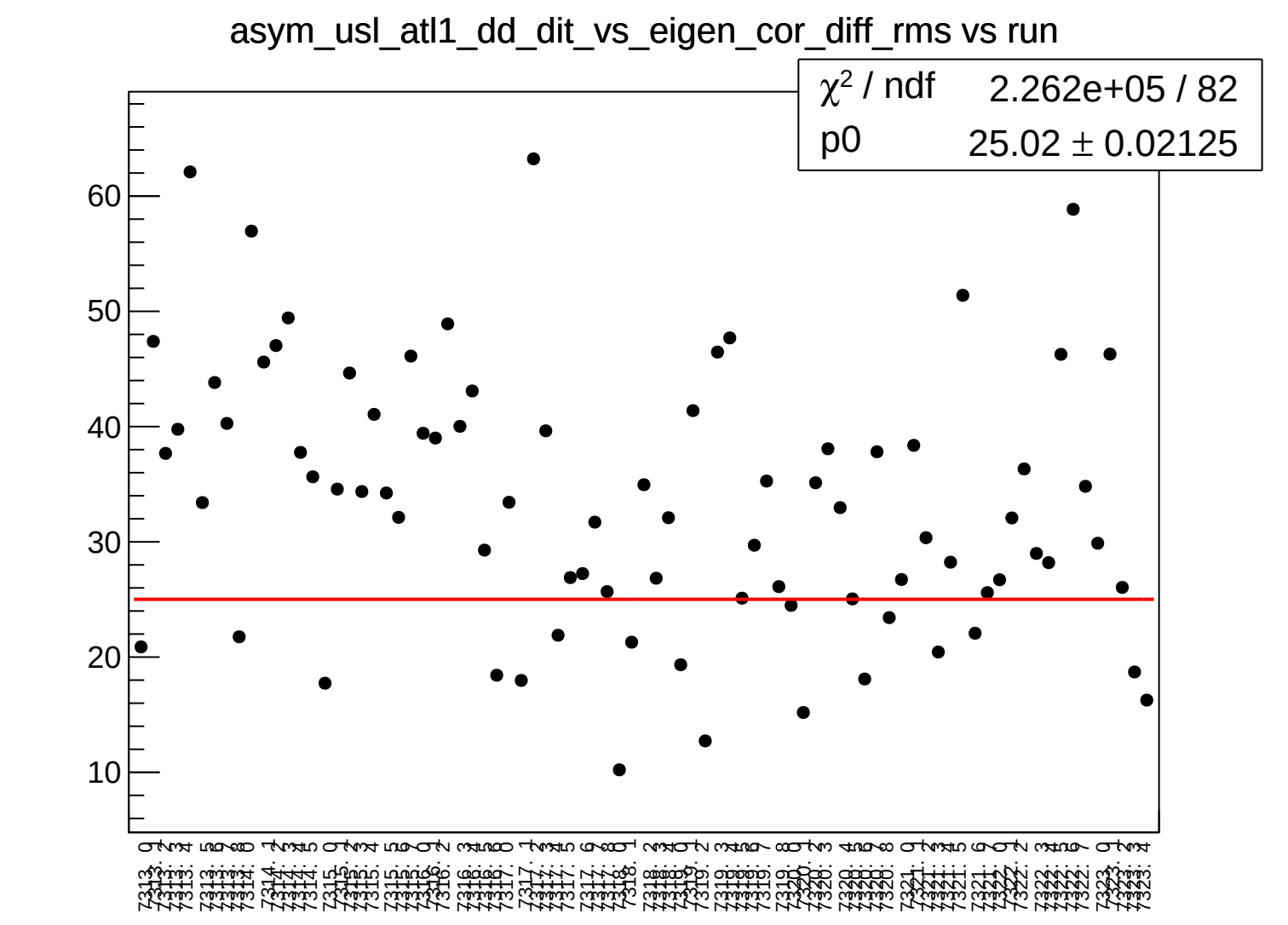

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.25e+06 / 82
p0 1.081e−11 ± 1.798e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

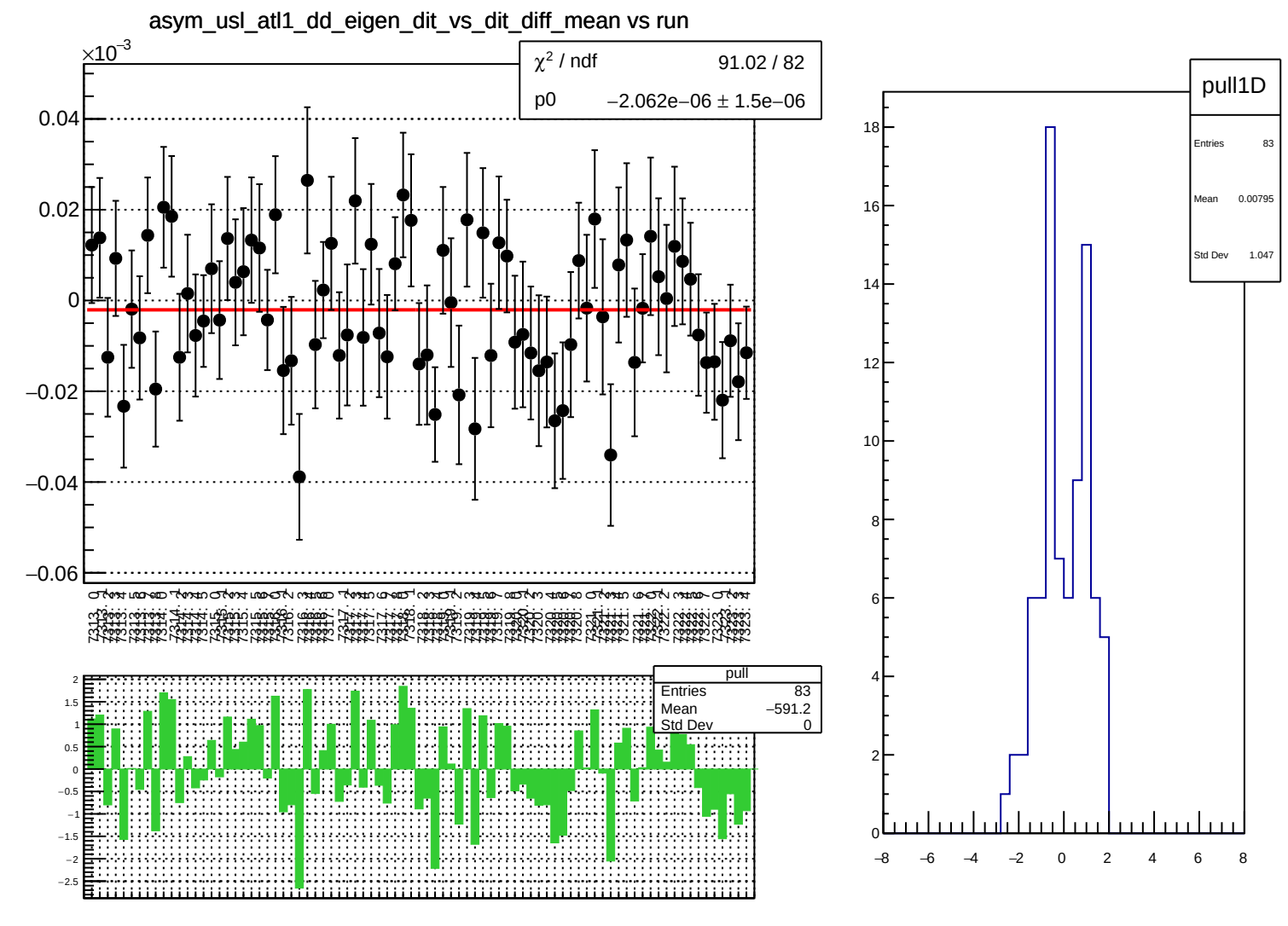

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.6 / 82
p0 0.03587 ± 0.03006
pull
Entries 83
Mean −14.41
Std Dev 0

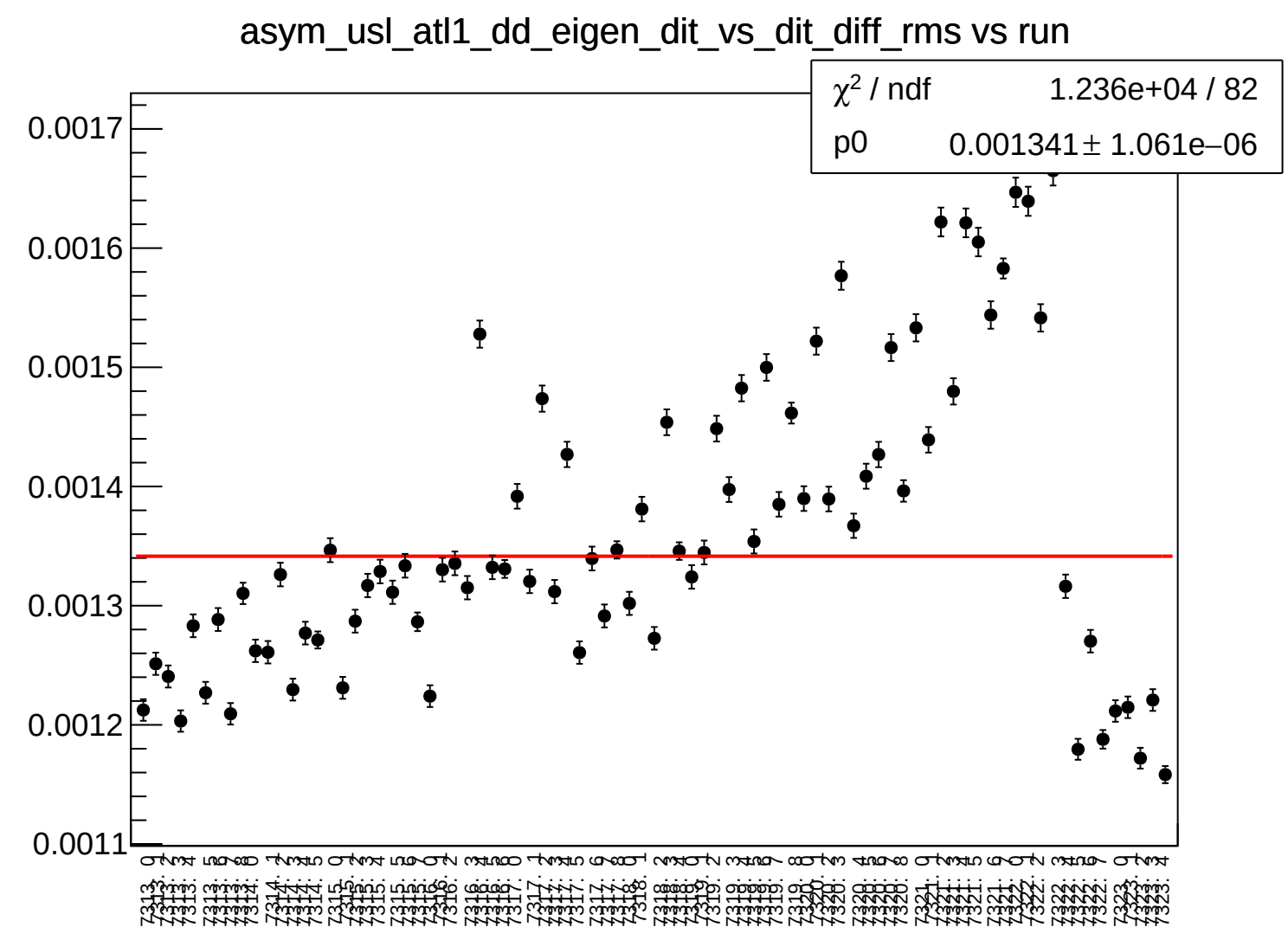

pull1D
Entries 83
Mean 0.02829
Std Dev 0.9851

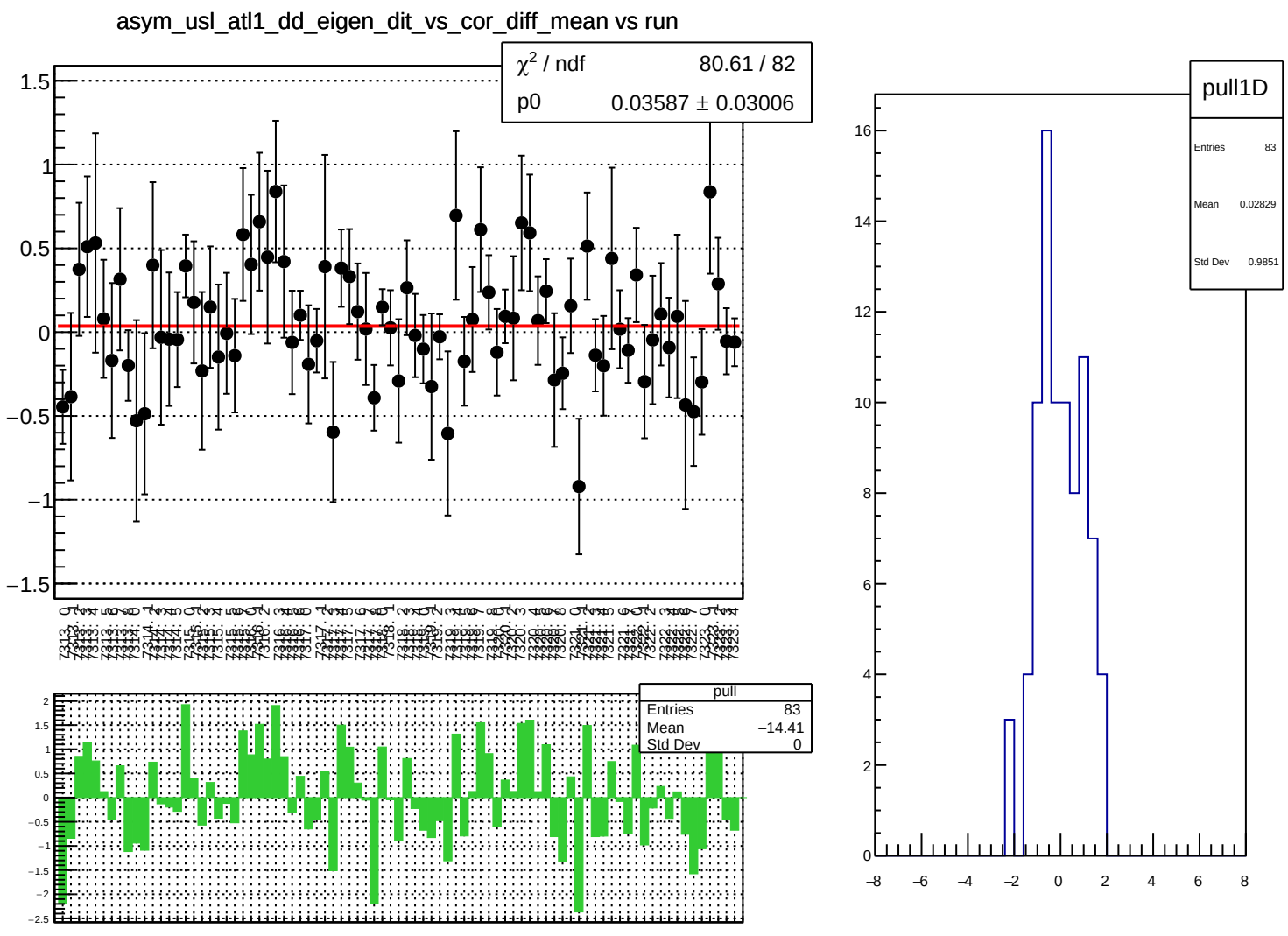

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 82
p0 25.02 ± 0.02125
60
50
40
30
20
10

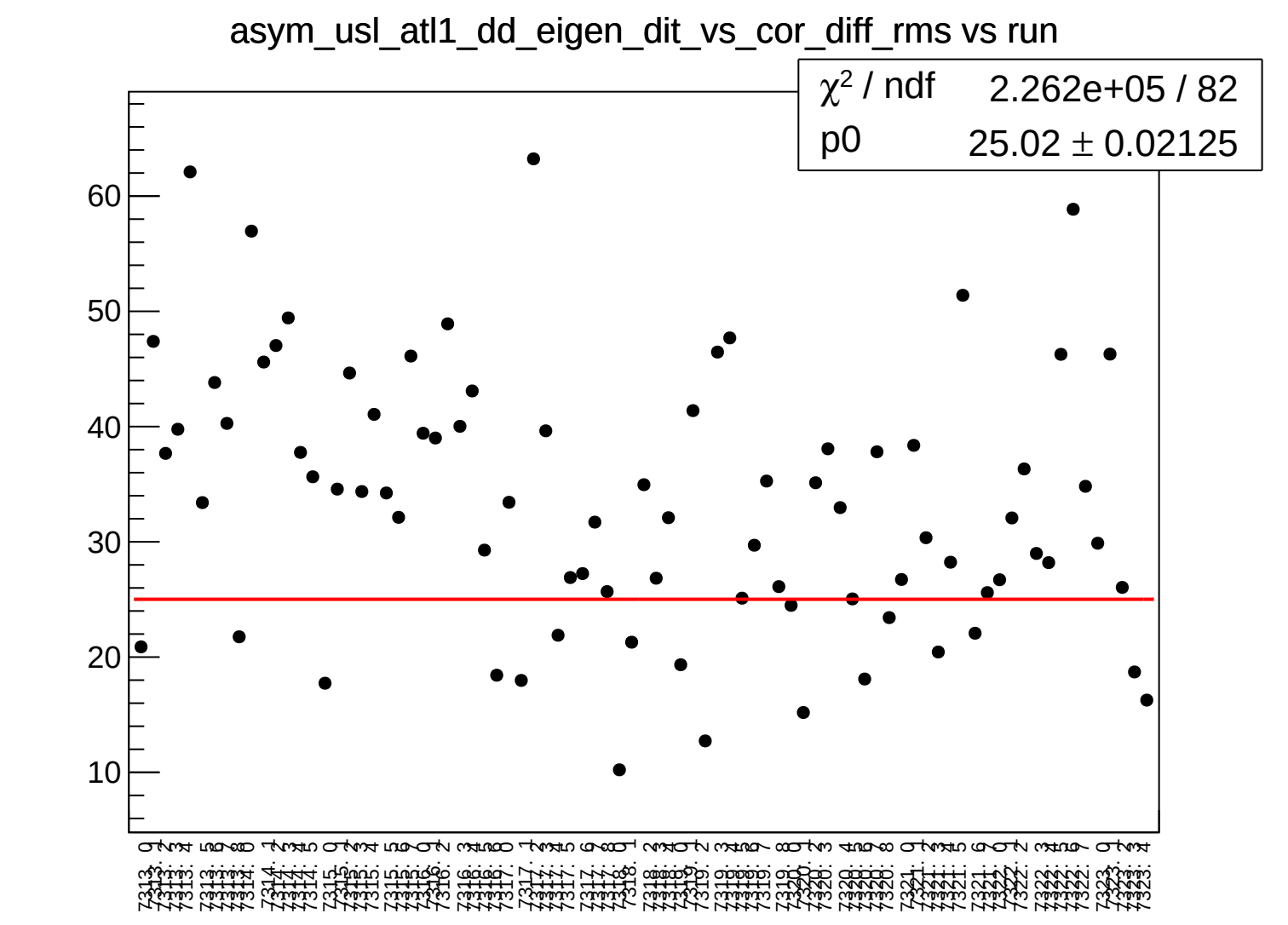

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.6 / 82
p0 0.03587 ± 0.03006
pull
Entries 83
Mean −14.41
Std Dev 0
pull1D
Entries 83
Mean 0.02829
Std Dev 0.9851

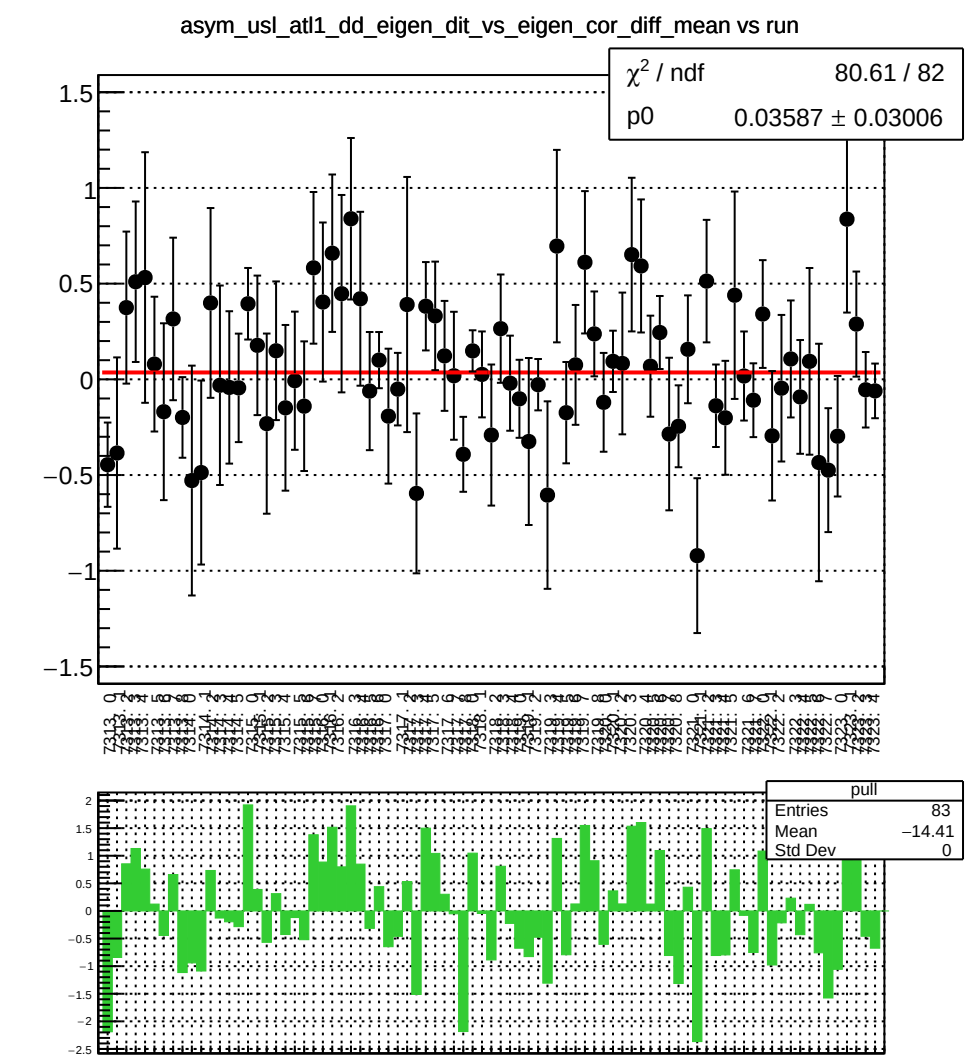

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 82
p0 25.02 ± 0.02125
60
50
40
30
20
10

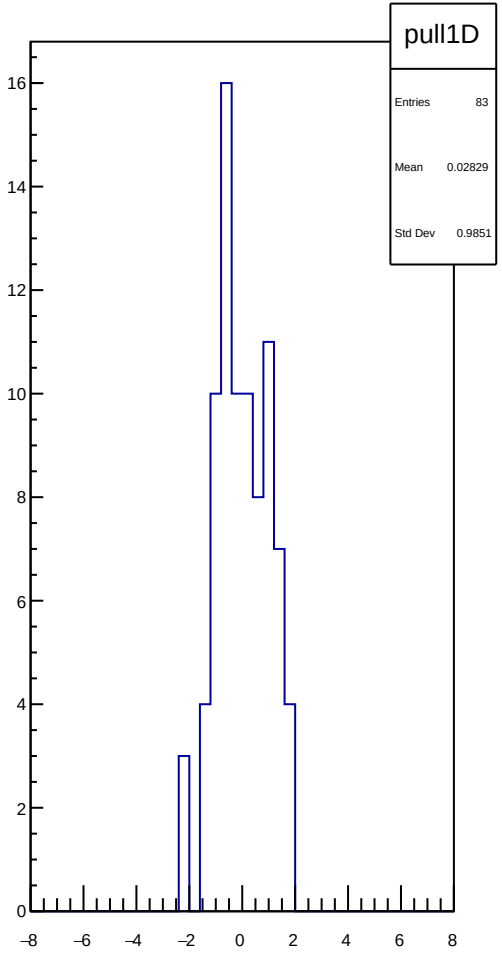

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.02 / 82
p0 −2.062e−06 ± 1.5e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean −591.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 83
Mean 0.00795
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

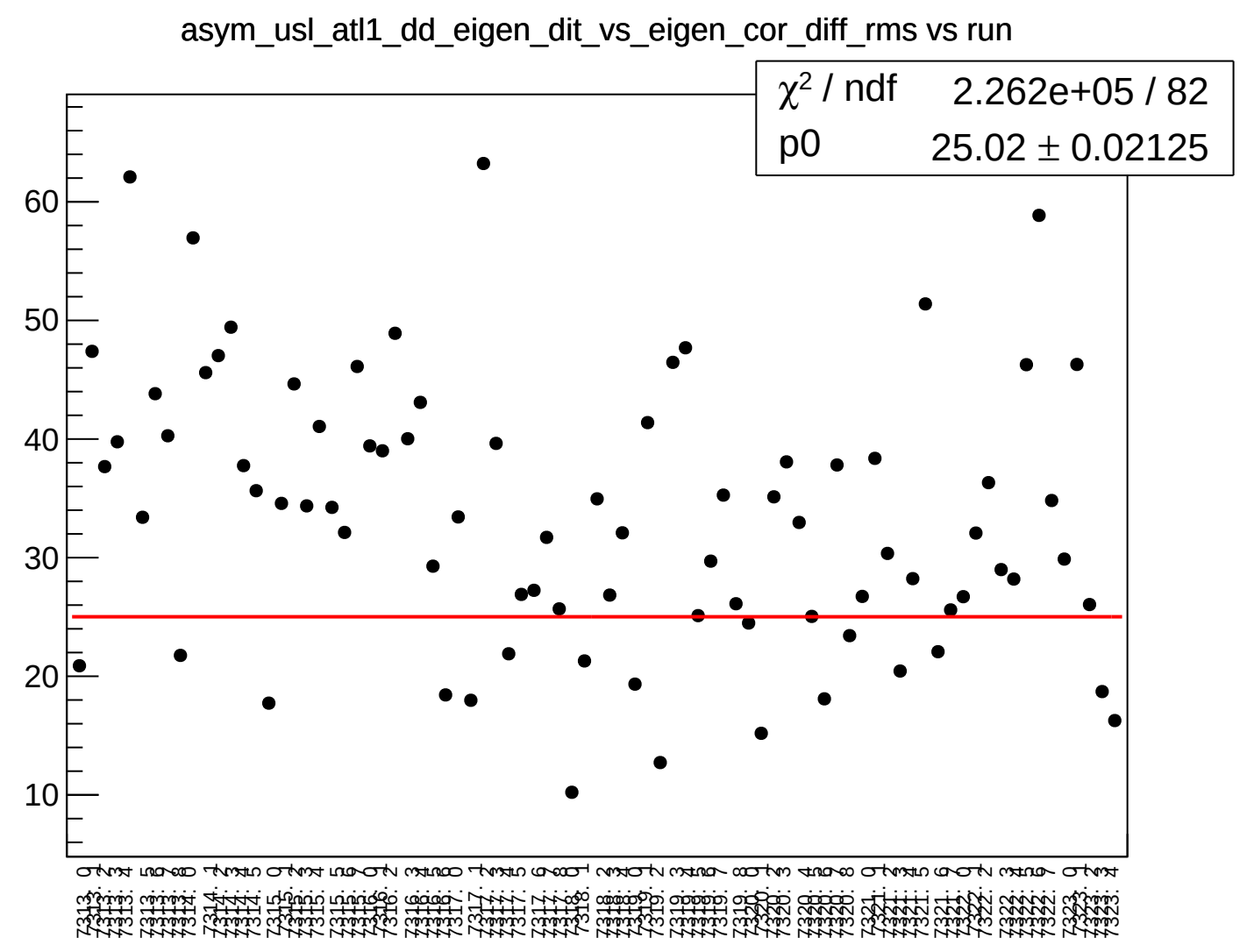

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.236e+04 / 82
p0 0.001341 ± 1.061e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

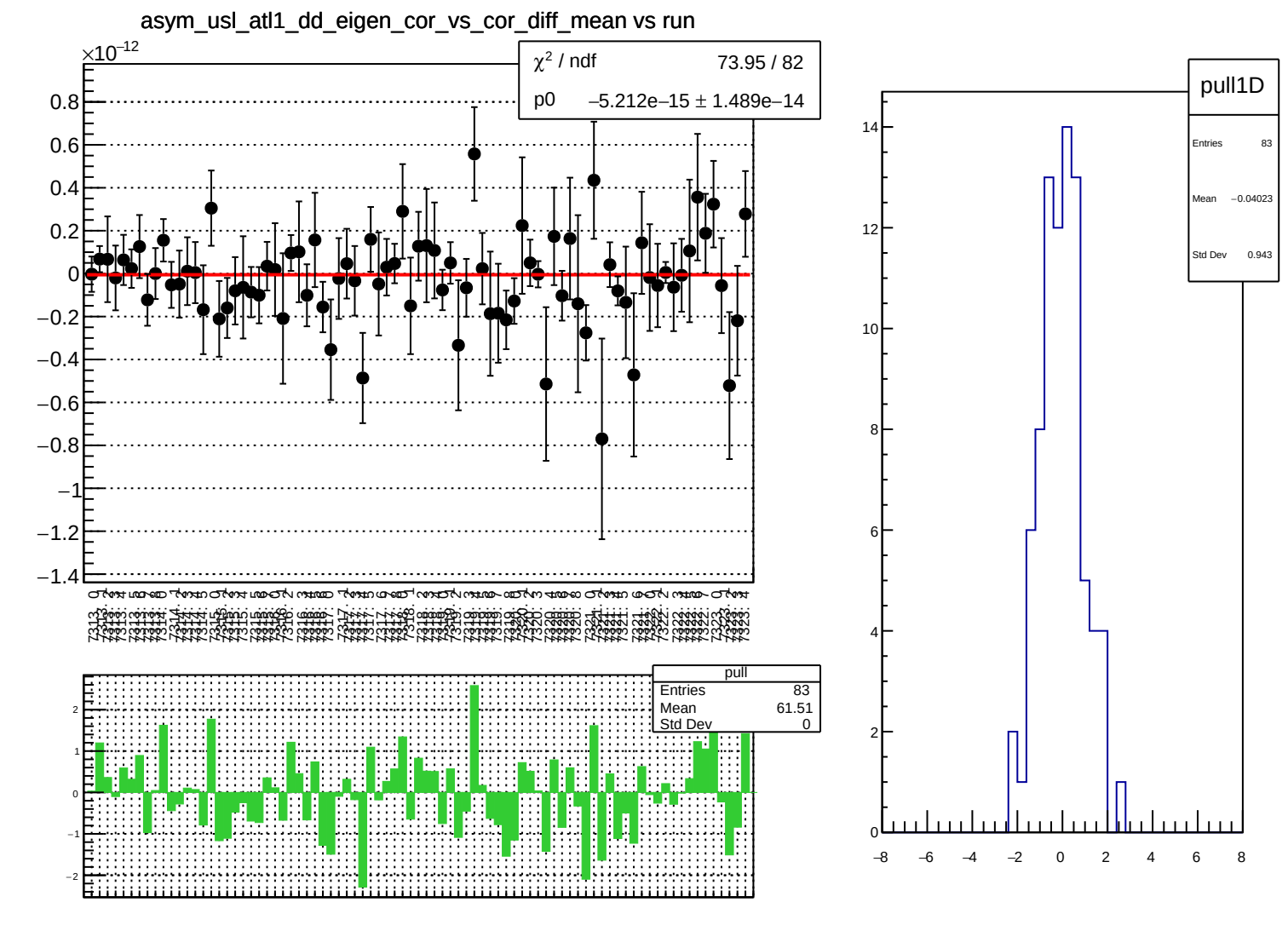

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.61 / 82
p0 0.03587 ± 0.03006
pull
Entries 83
Mean −14.41
Std Dev 0
pull1D
Entries 83
Mean 0.02829
Std Dev 0.9851

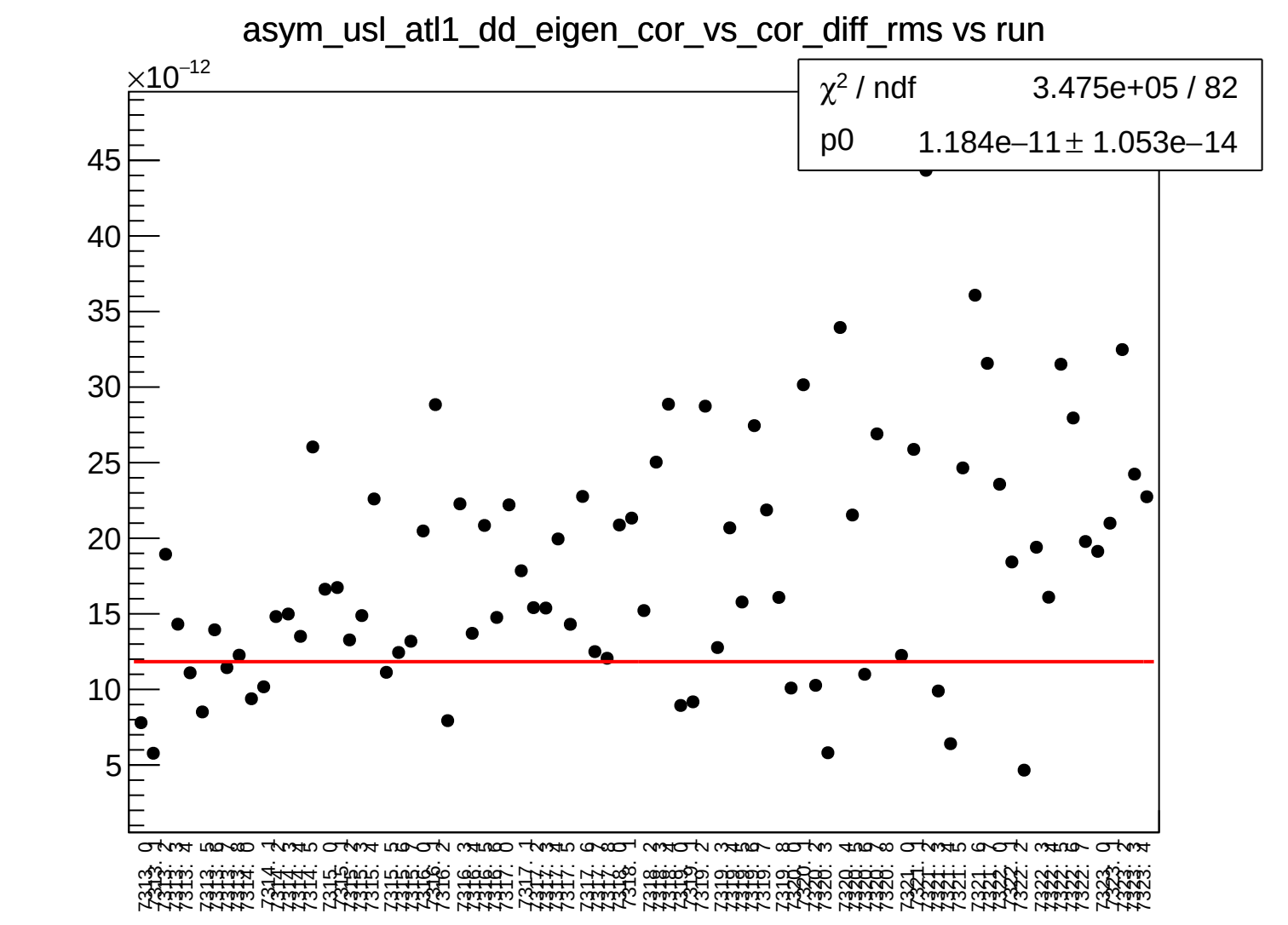

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 82
p0 25.02 ± 0.02125
60
50
40
30
20
10

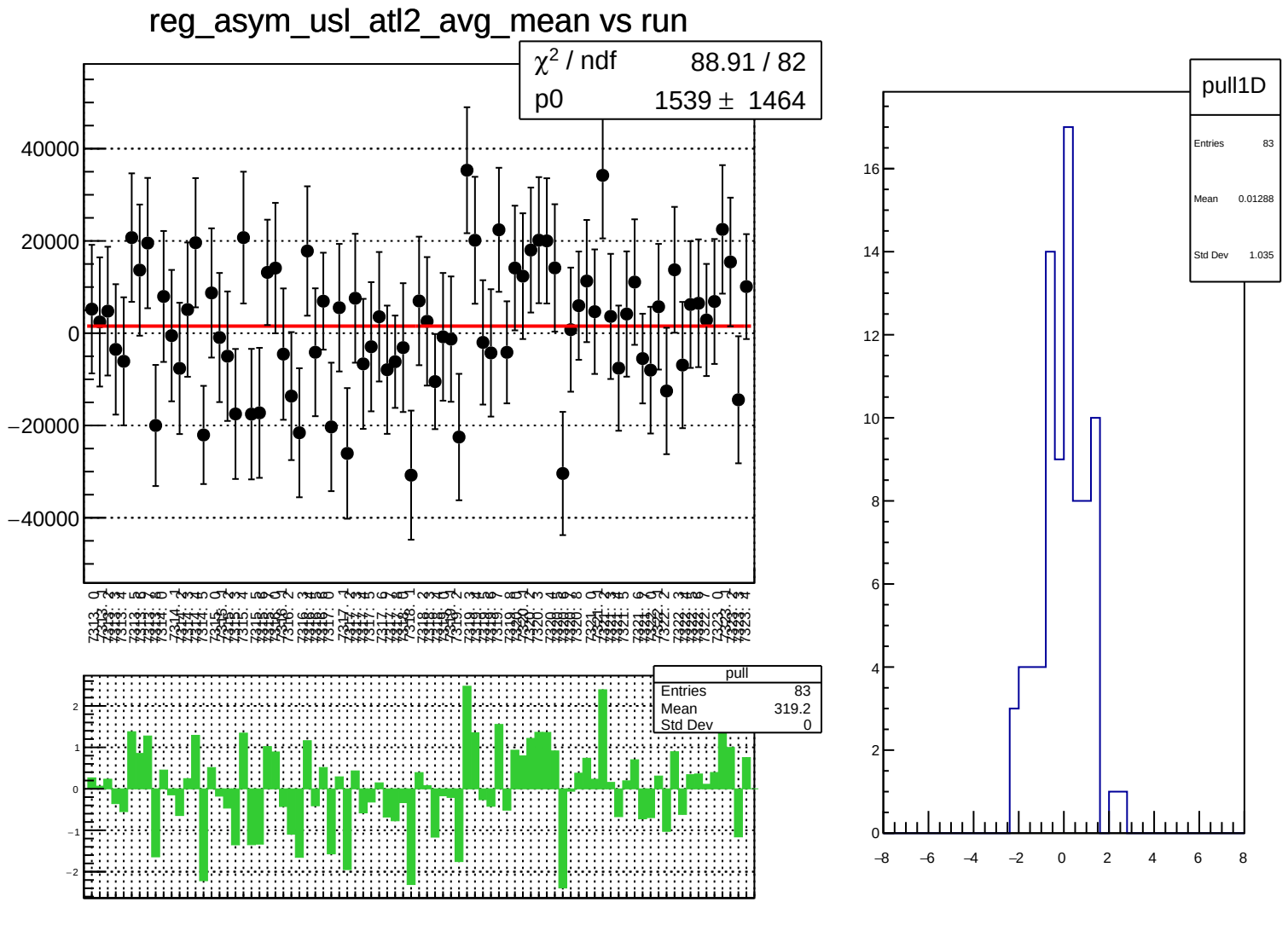

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.61 / 82
p0 0.03587 ± 0.03006
pull
Entries 83
Mean −14.41
Std Dev 0

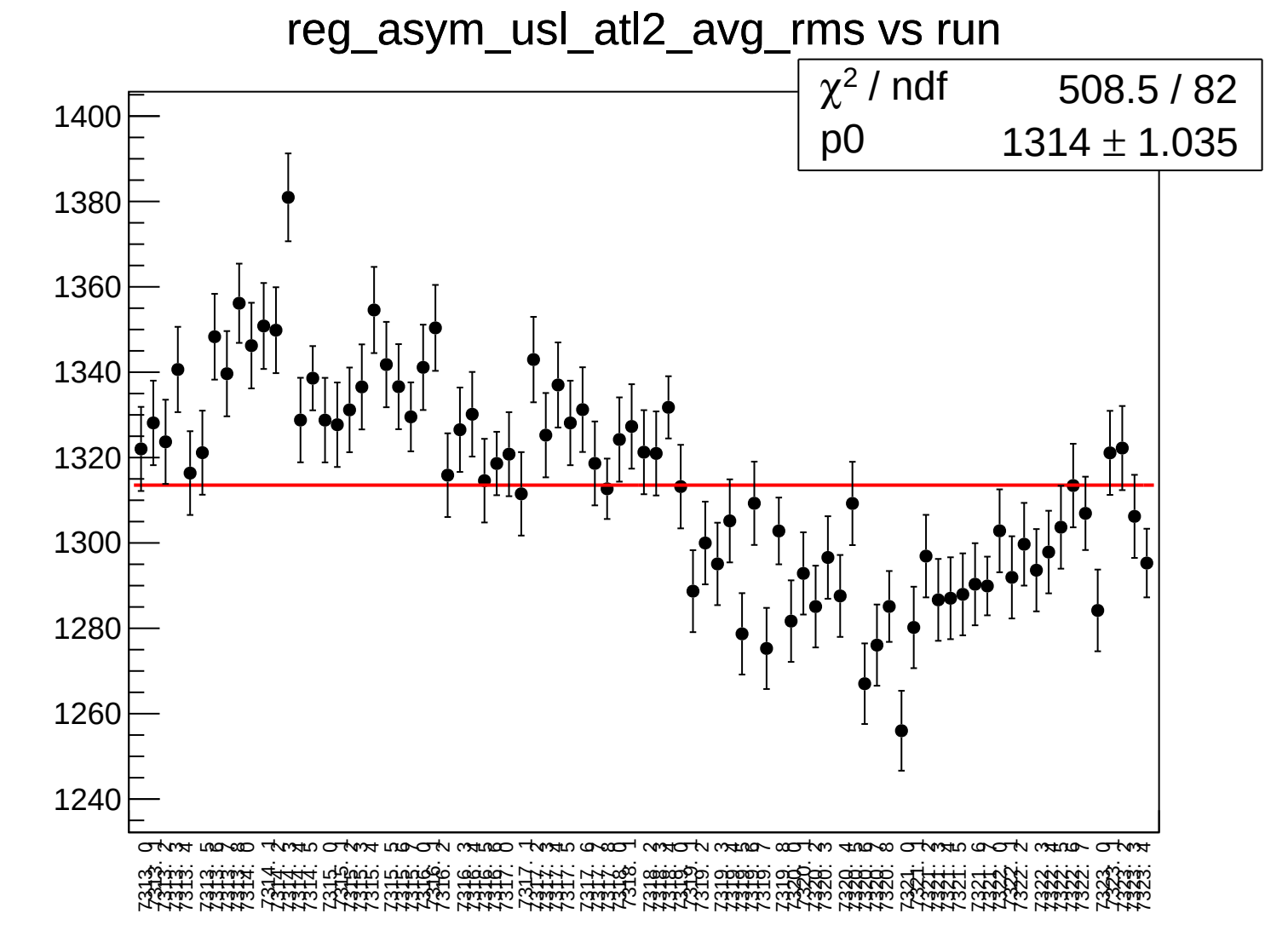

pull1D
Entries 83
Mean 0.02829
Std Dev 0.9851

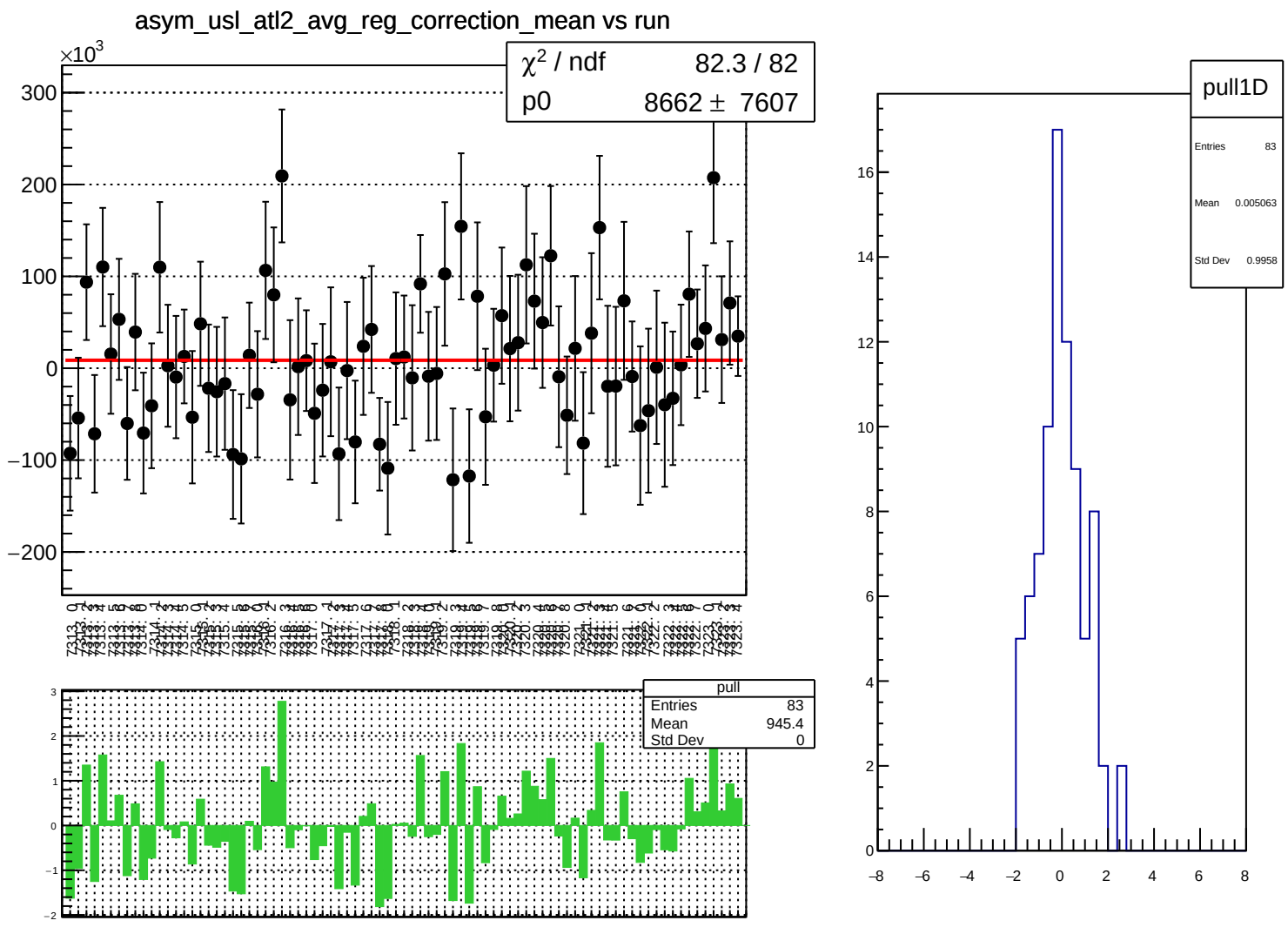

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 82
p0 25.02 ± 0.02125
60
50
40
30
20
10

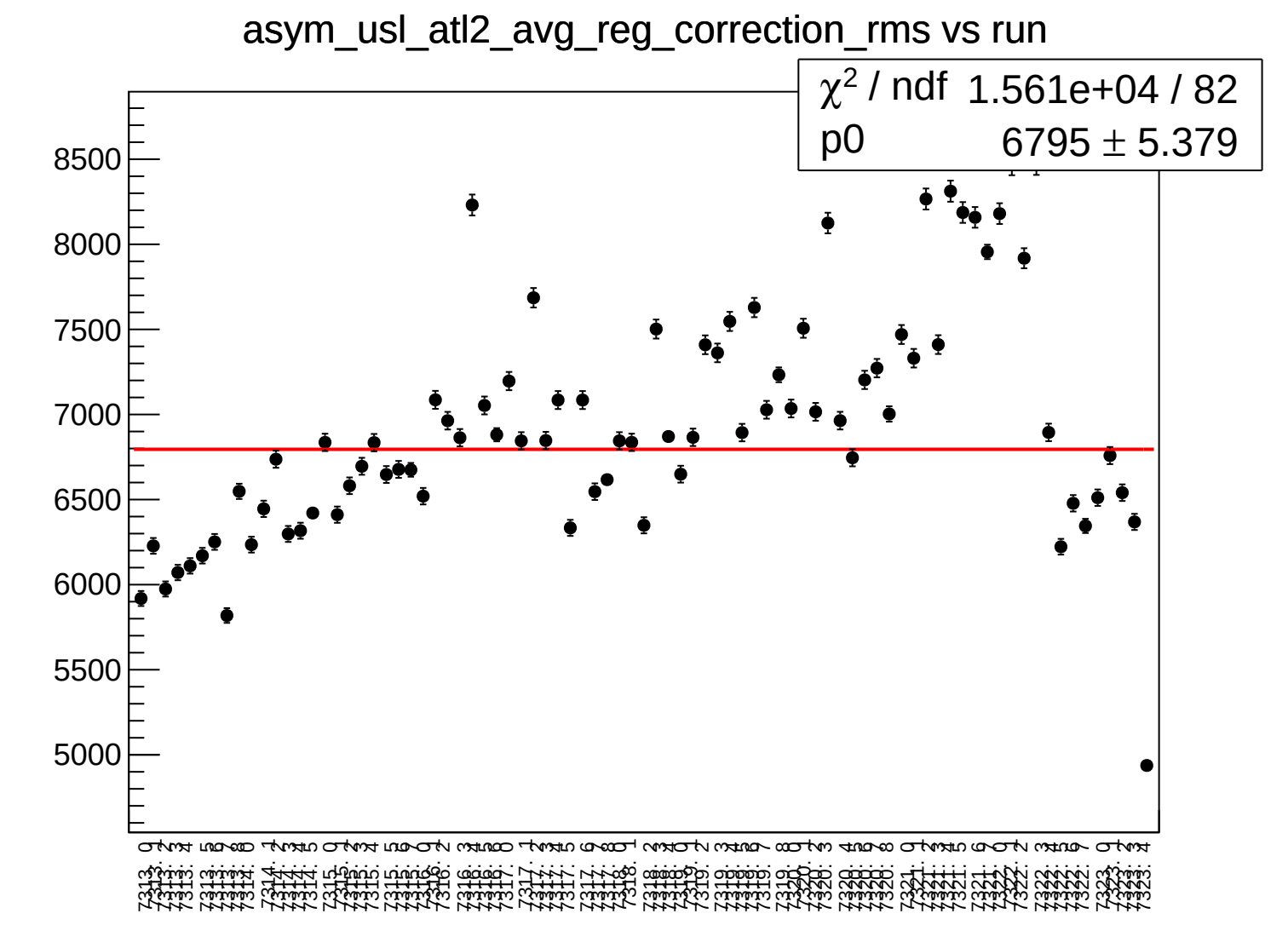

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.95 / 82
p0 −5.212e−15 ± 1.489e−14
pull
Entries 83
Mean 61.51
Std Dev 0
pull1D
Entries 83
Mean −0.04023
Std Dev 0.943

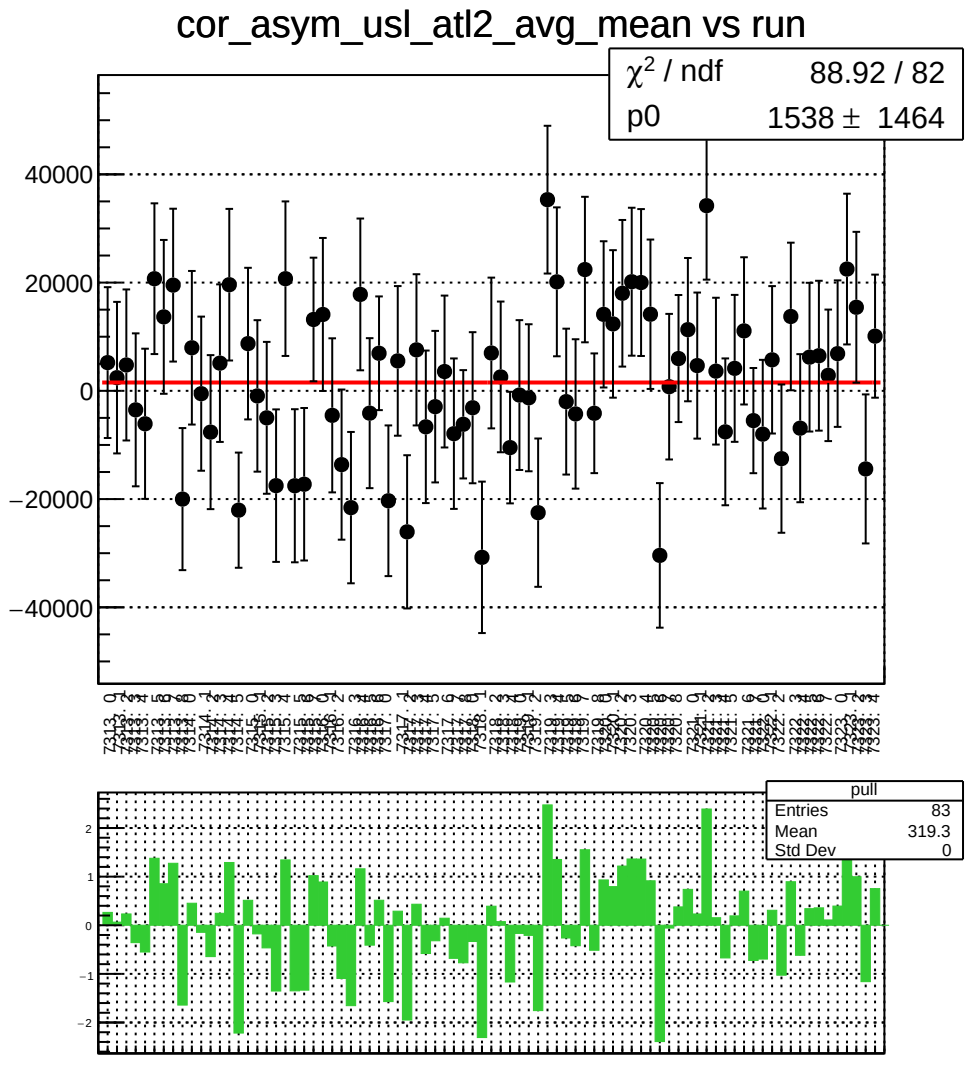

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.475e+05 / 82
p0 1.184e−11 ± 1.053e−14
45
40
35
30
25
20
15
10
5

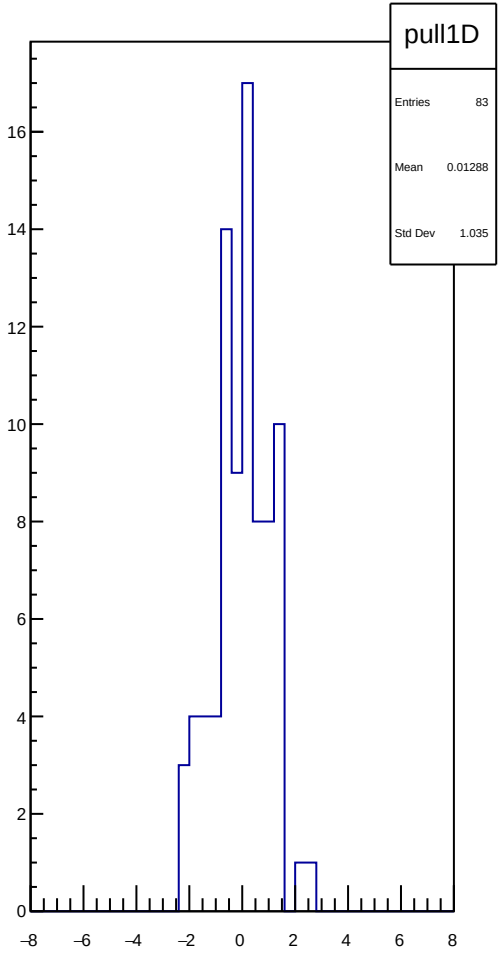

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 88.91 / 82
p0 1539 ± 1464
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 319.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.01288
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

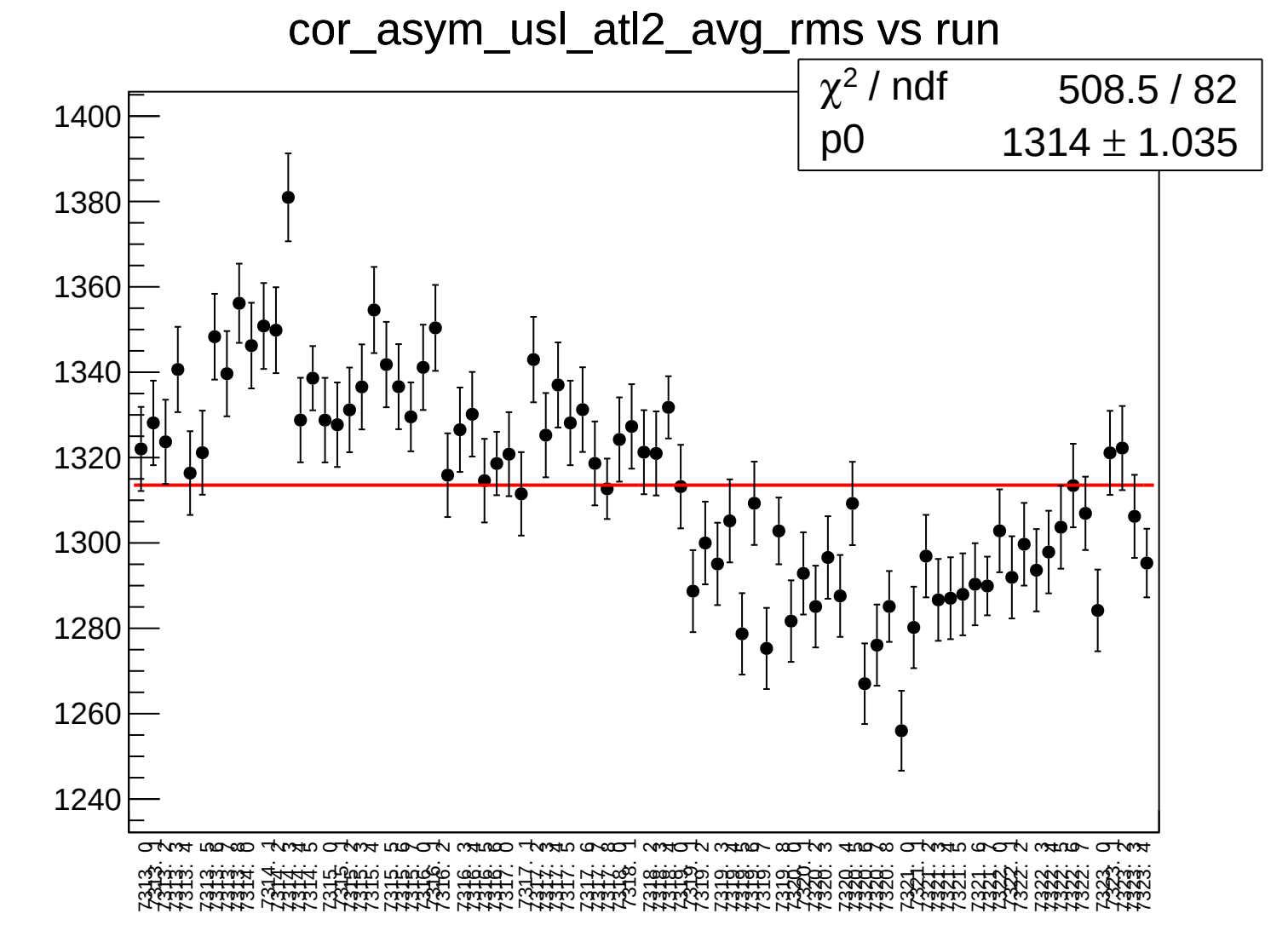

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 508.5 / 82
p0 1314 ± 1.035
1400
1380
1360
1340
1320
1300
1280
1260
1240

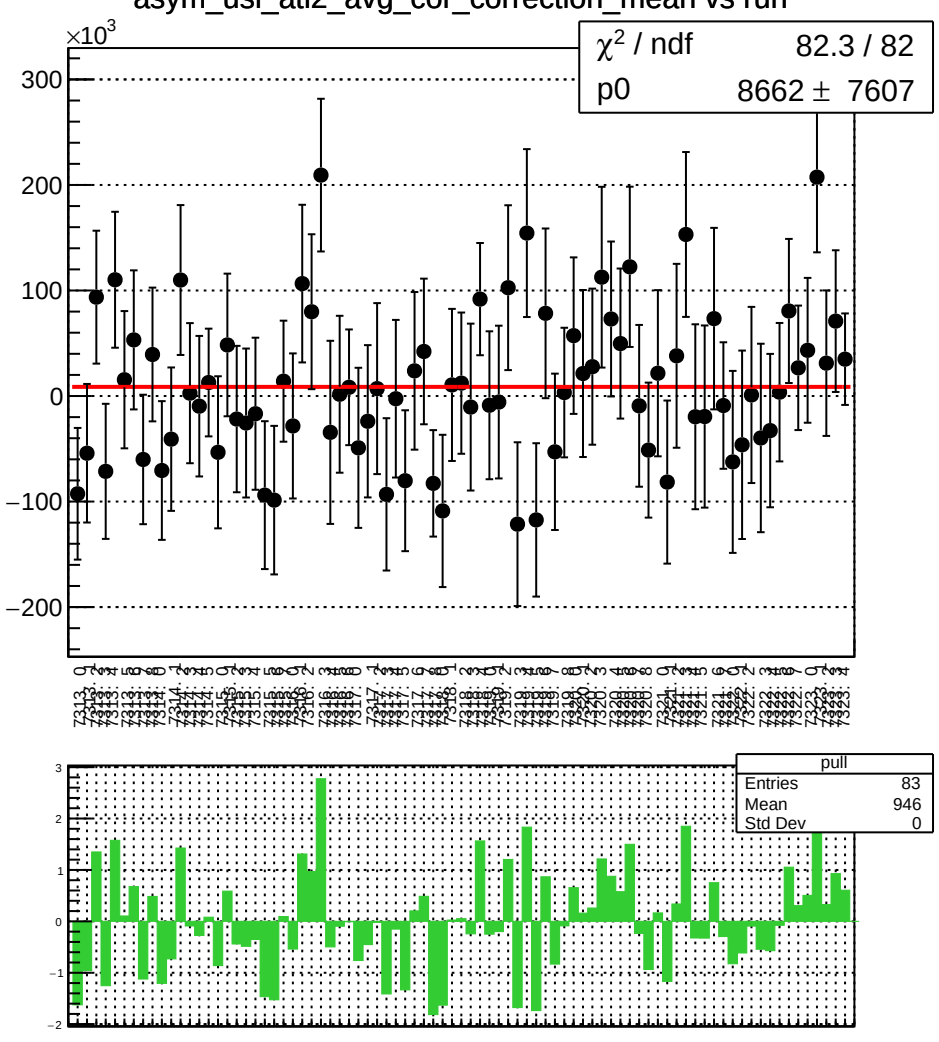

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.3 / 82
p0 8662 ± 7607
300
200
100
0
−100
−200
pull
Entries 83
Mean 945.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.005063
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

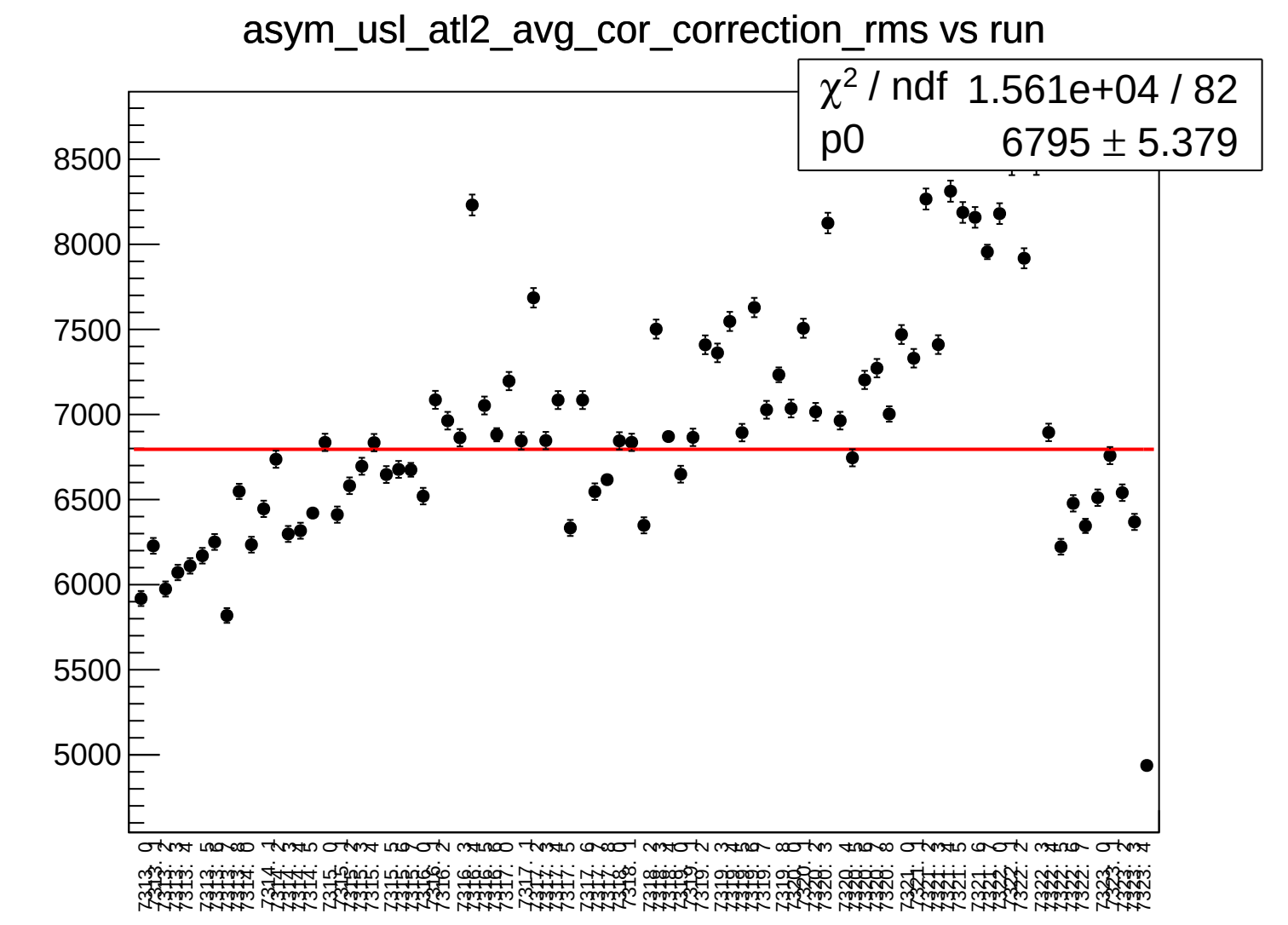

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.561e+04 / 82
p0 6795 ± 5.379
8500
8000
7500
7000
6500
6000
5500
5000

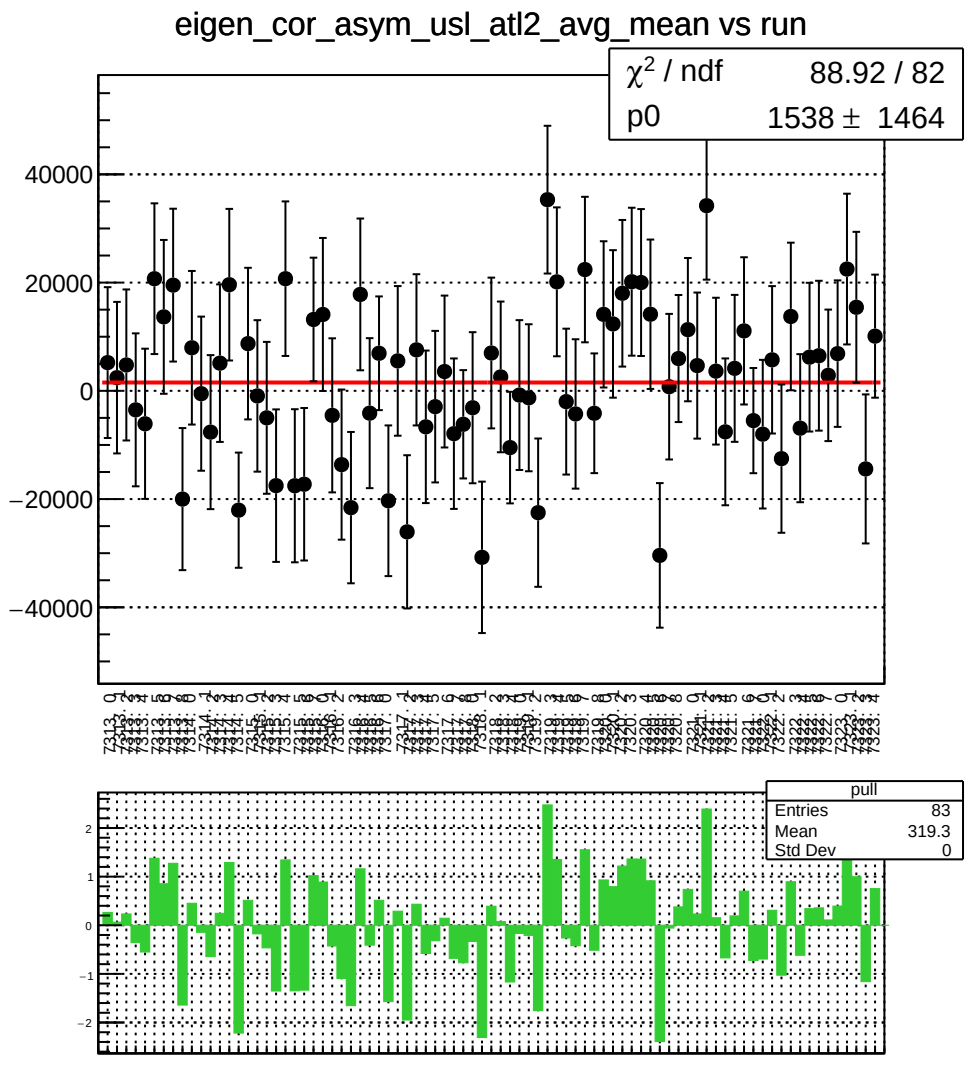

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 88.92 / 82
p0 1538 ± 1464
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 319.3
Std Dev 0
2
1
0
−1
−2

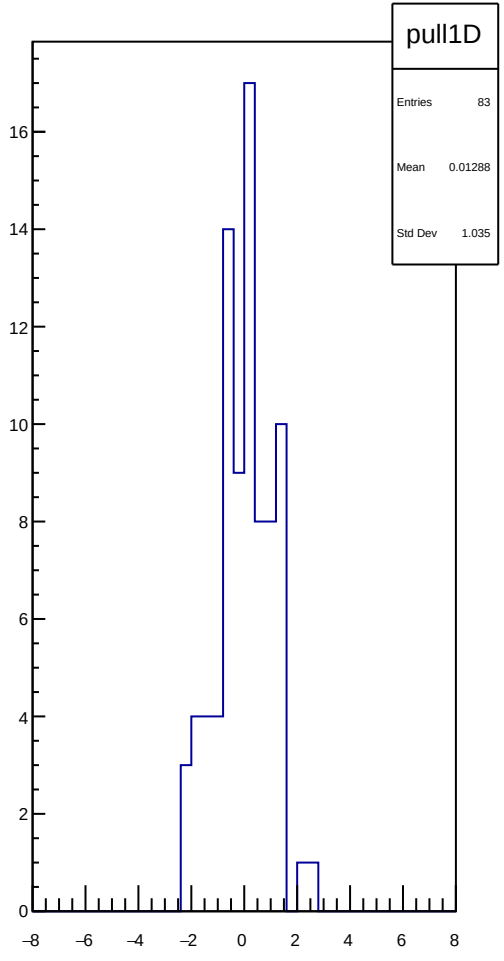

pull1D
Entries 83
Mean 0.01288
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

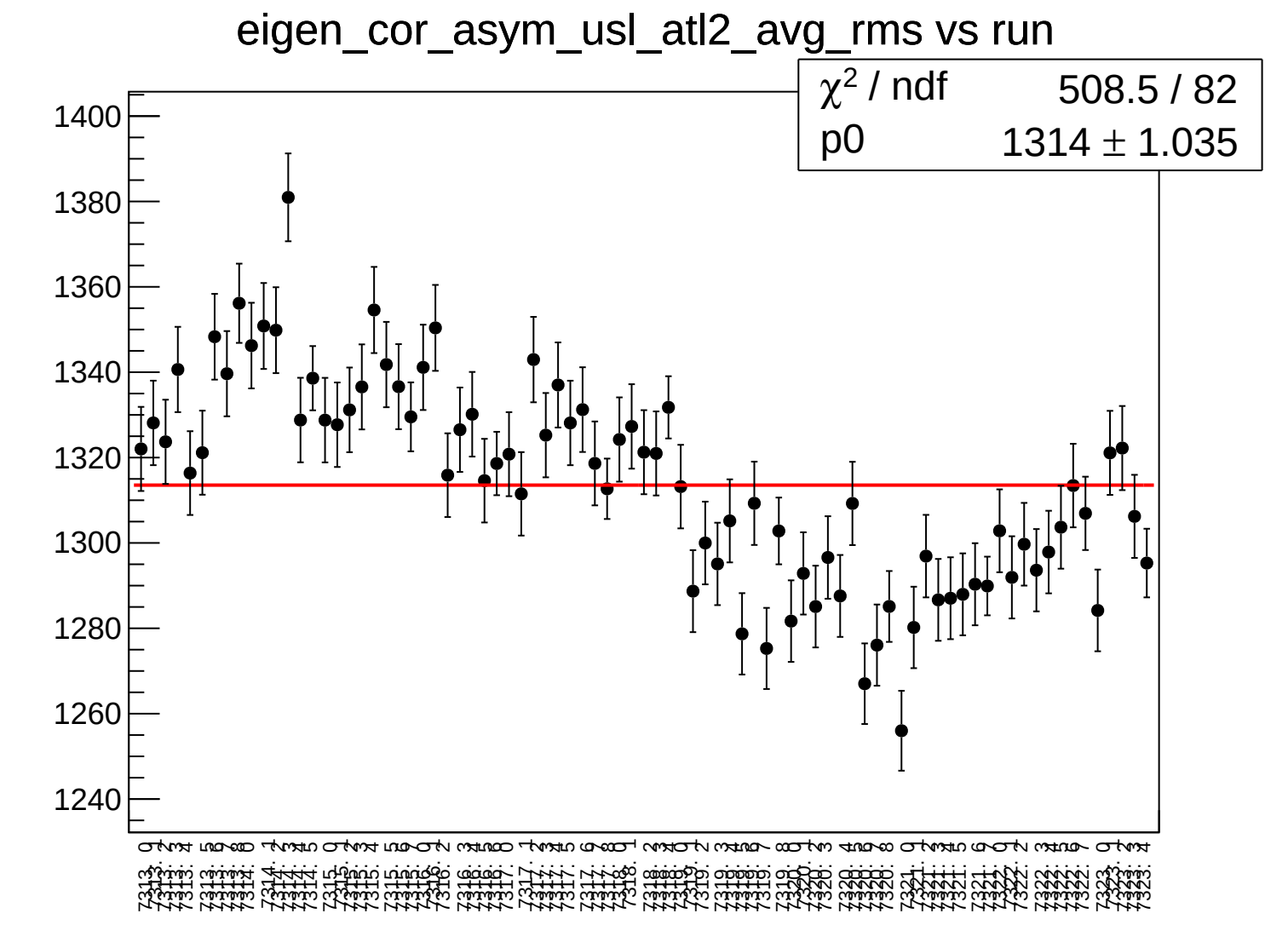

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 508.5 / 82
p0 1314 ± 1.035
1400
1380
1360
1340
1320
1300
1280
1260
1240

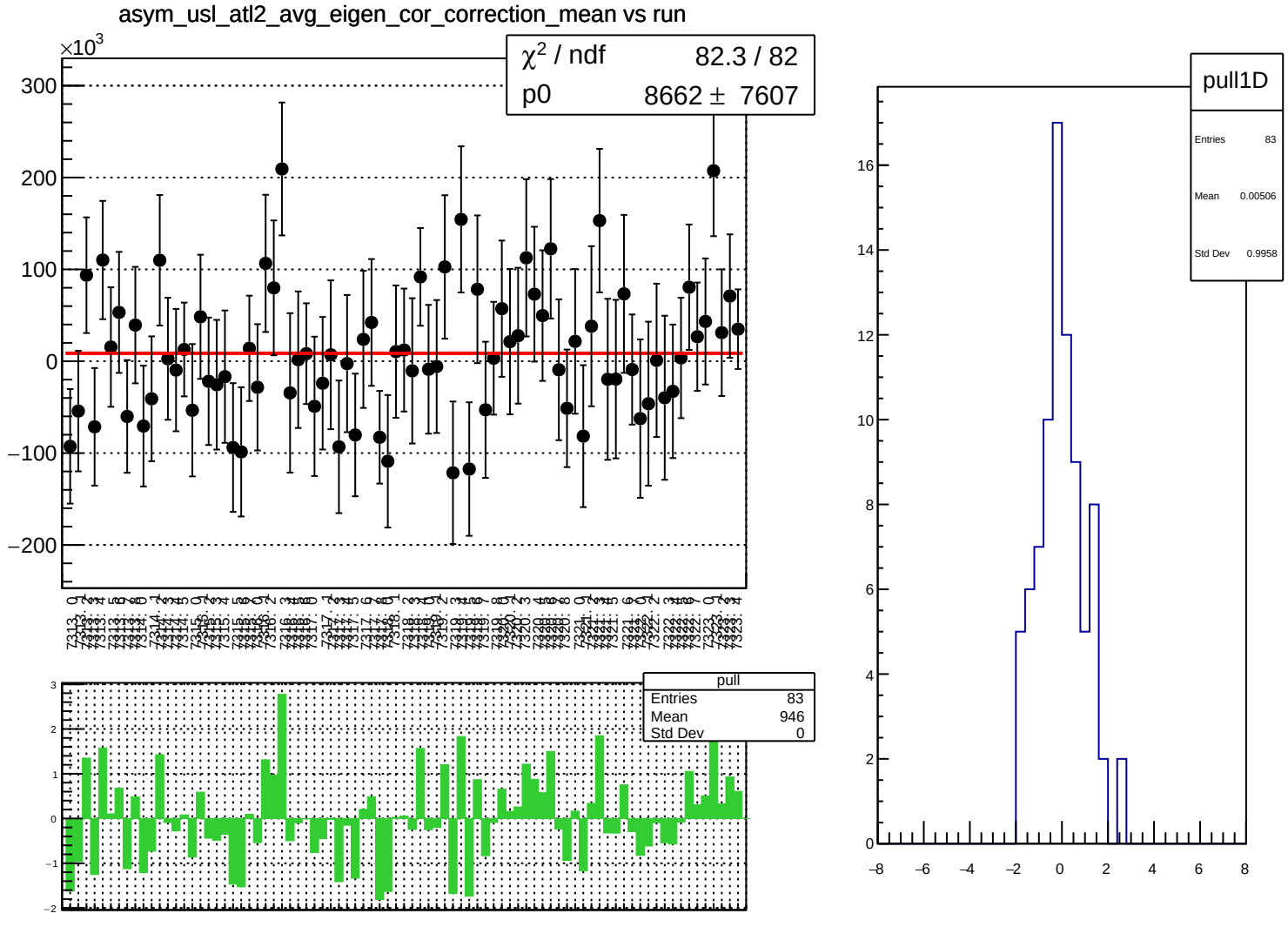

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 82
p0 8662 ± 7607
pull
Entries 83
Mean 946
Std Dev 0
pull1D
Entries 83
Mean 0.00506
Std Dev 0.9958

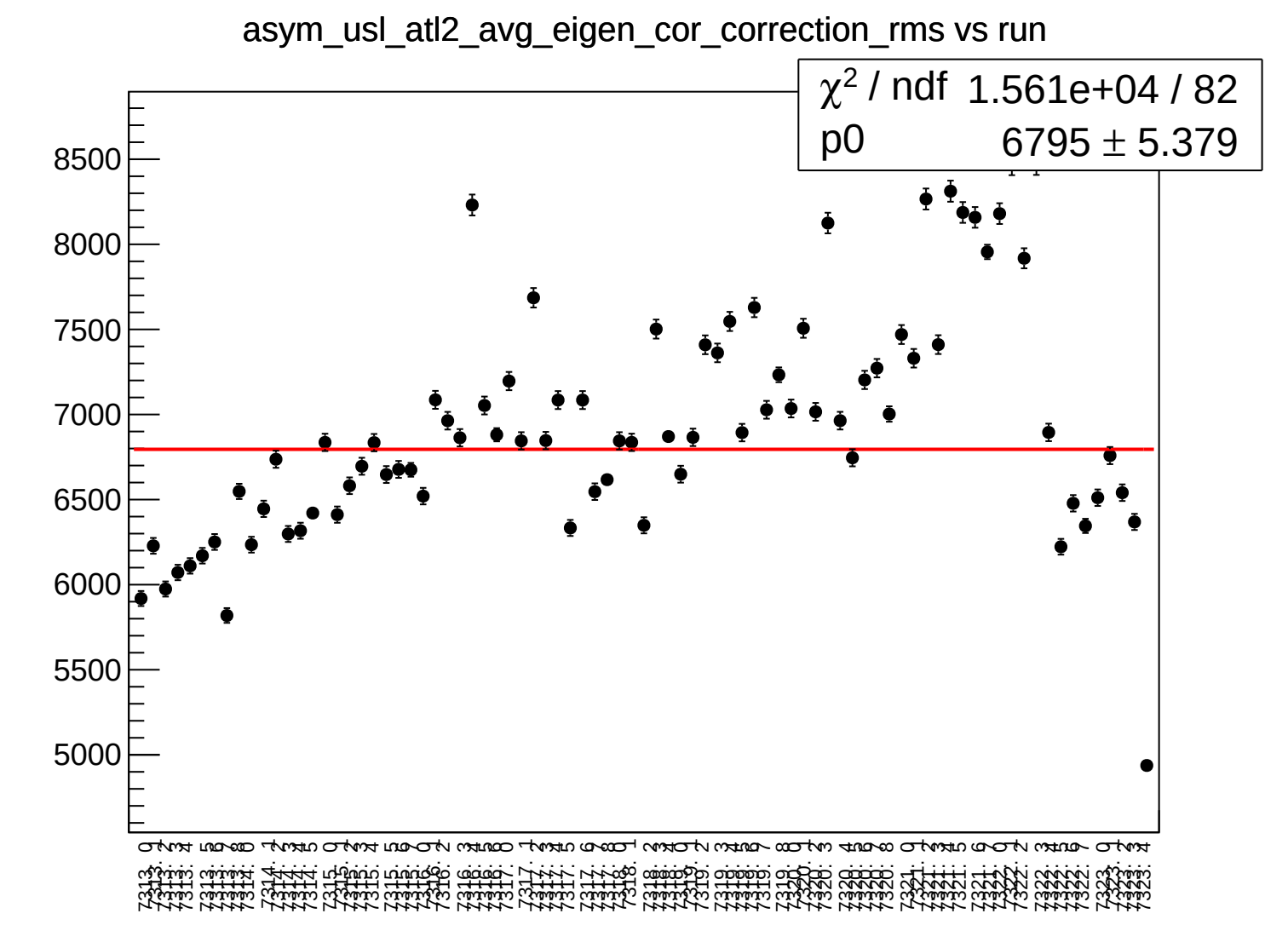

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.561e+04 / 82
p0 6795 ± 5.379
8500
8000
7500
7000
6500
6000
5500
5000

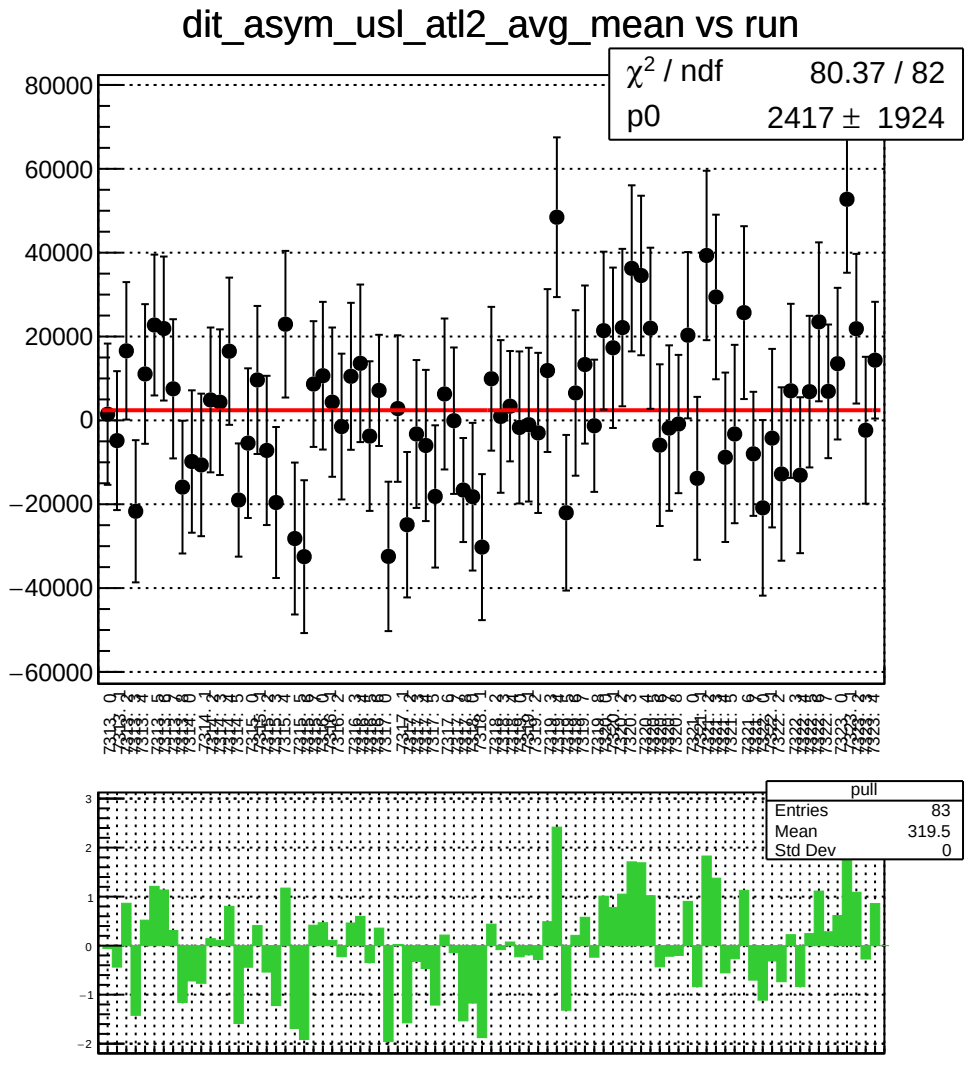

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 88.92 / 82
p0 1538 ± 1464
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 319.3
Std Dev 0
2
1
0
−1
−2

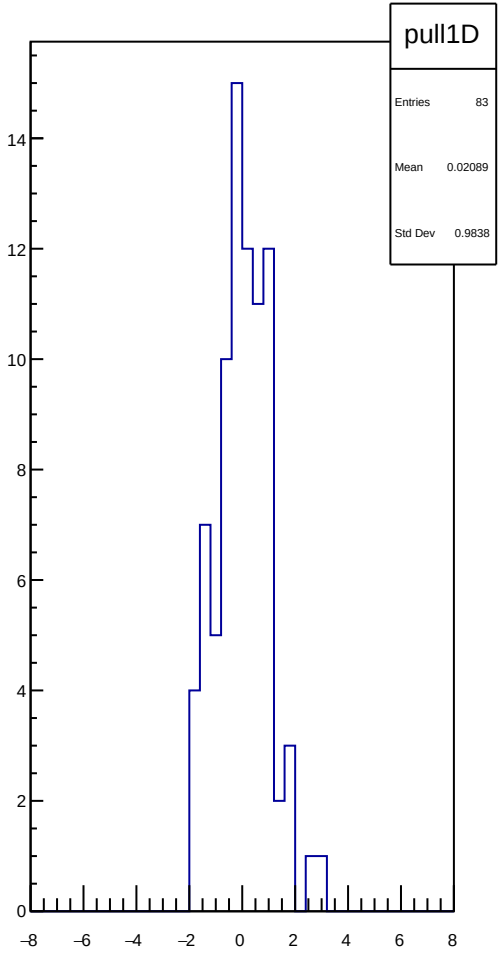

pull1D
Entries 83
Mean 0.01288
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

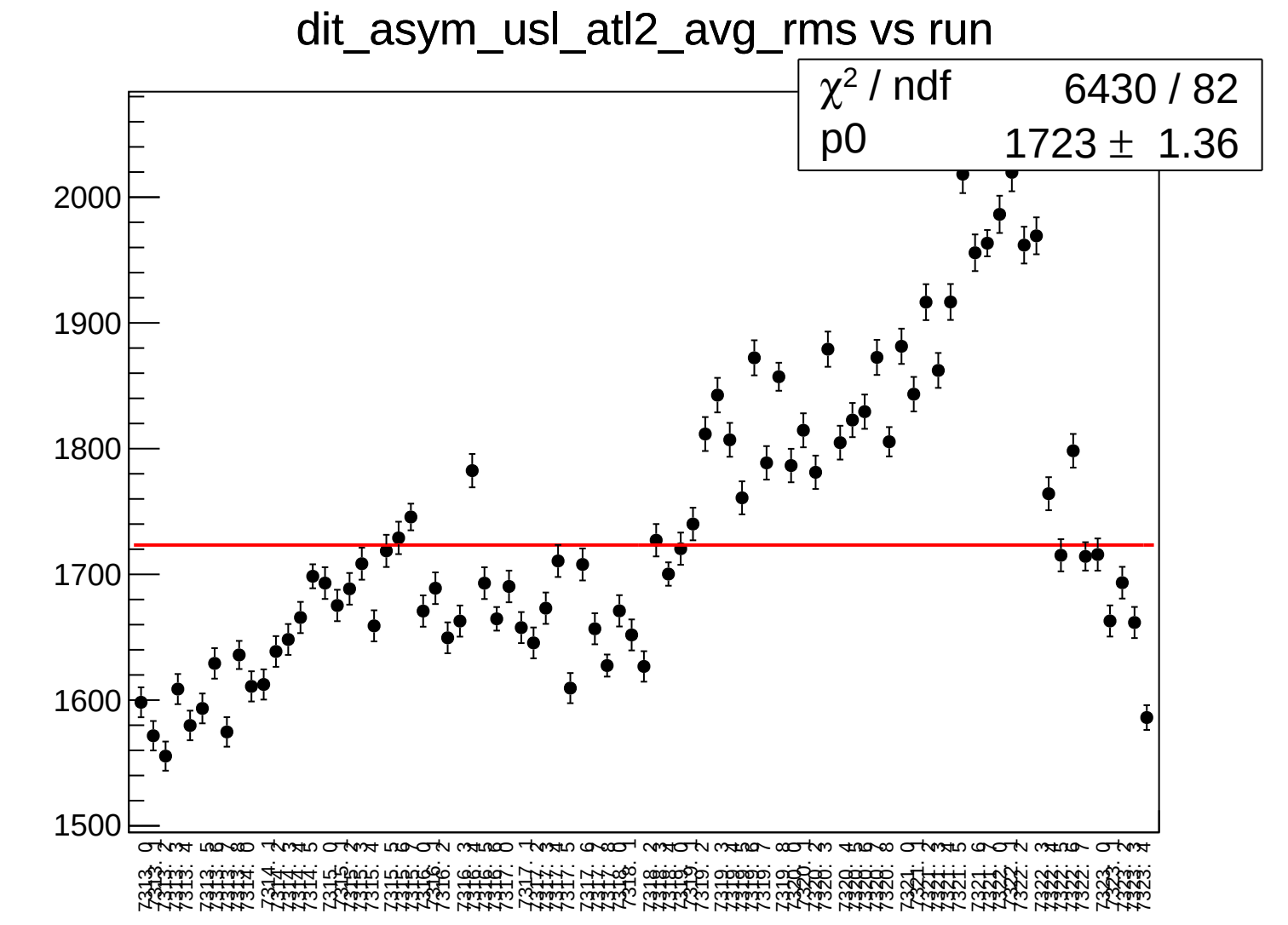

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 508.5 / 82
p0 1314 ± 1.035
1400
1380
1360
1340
1320
1300
1280
1260
1240

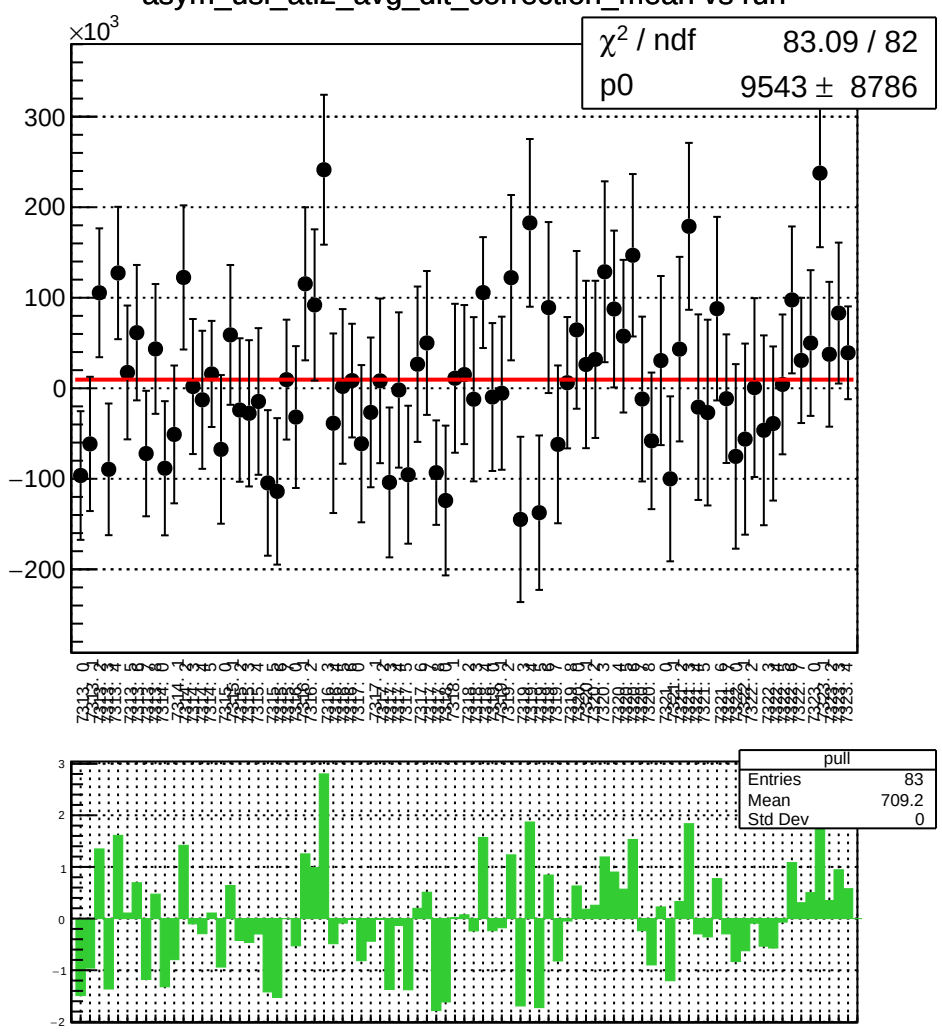

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.3 / 82
p0 8662 ± 7607
pull
Entries 83
Mean 946
Std Dev 0
pull1D
Entries 83
Mean 0.00506
Std Dev 0.9958

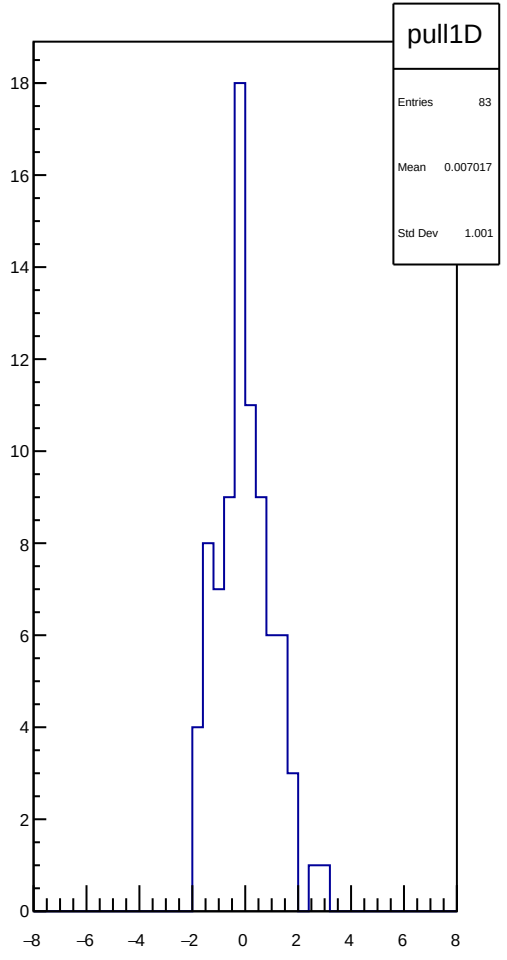

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.561e+04 / 82
p0 6795 ± 5.379
8500
8000
7500
7000
6500
6000
5500
5000

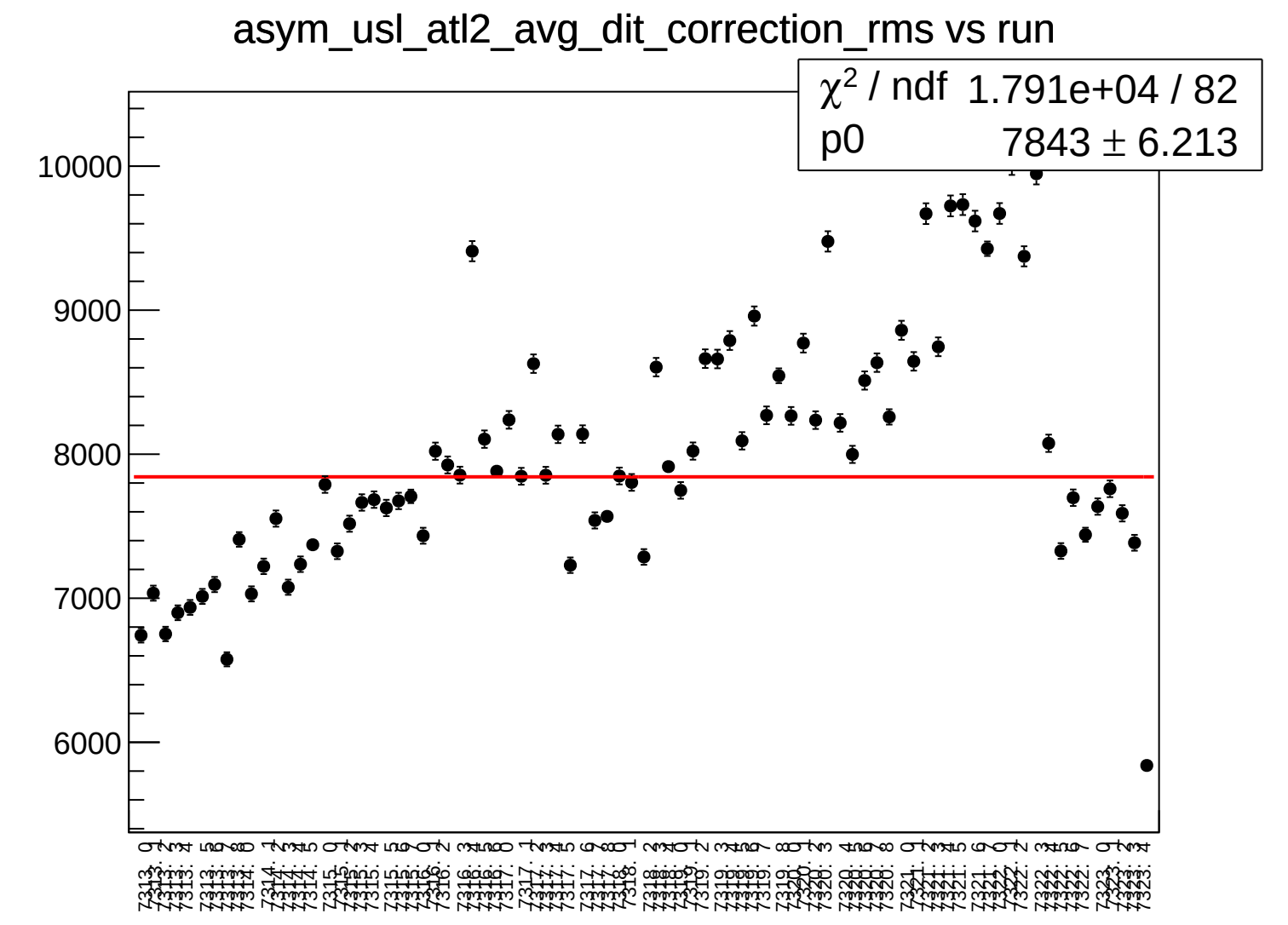

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.37 / 82
p0 2417 ± 1924
pull
Entries 83
Mean 319.5
Std Dev 0

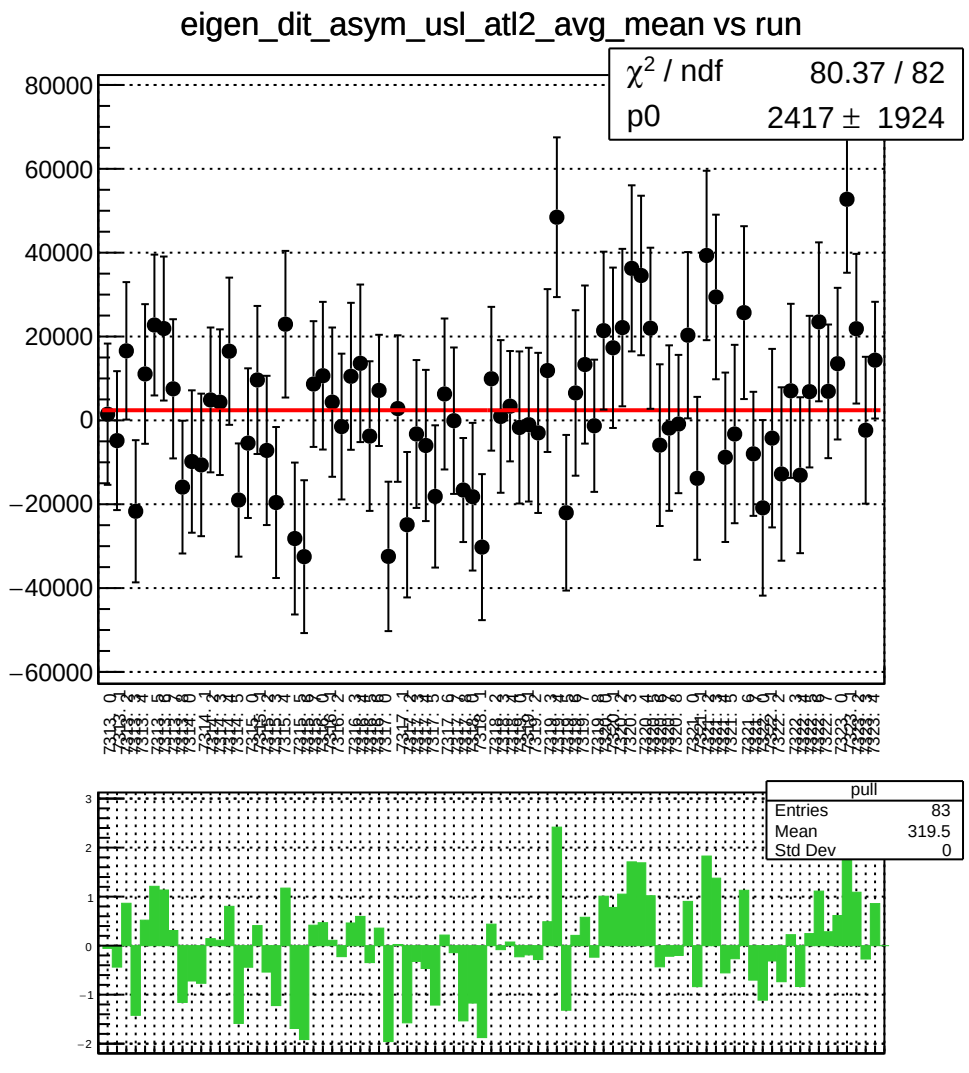

pull1D
Entries 83
Mean 0.02089
Std Dev 0.9838

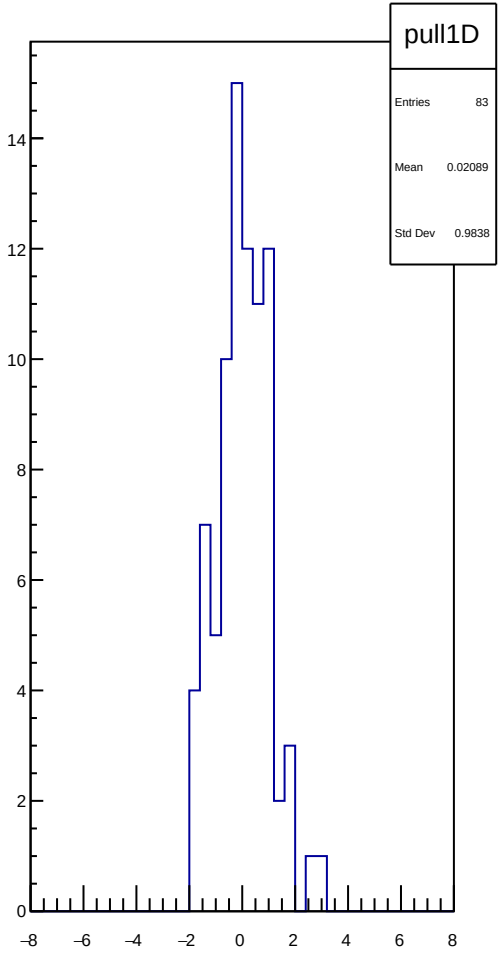

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 6430 / 82
p0 1723 ± 1.36
2000
1900
1800
1700
1600
1500

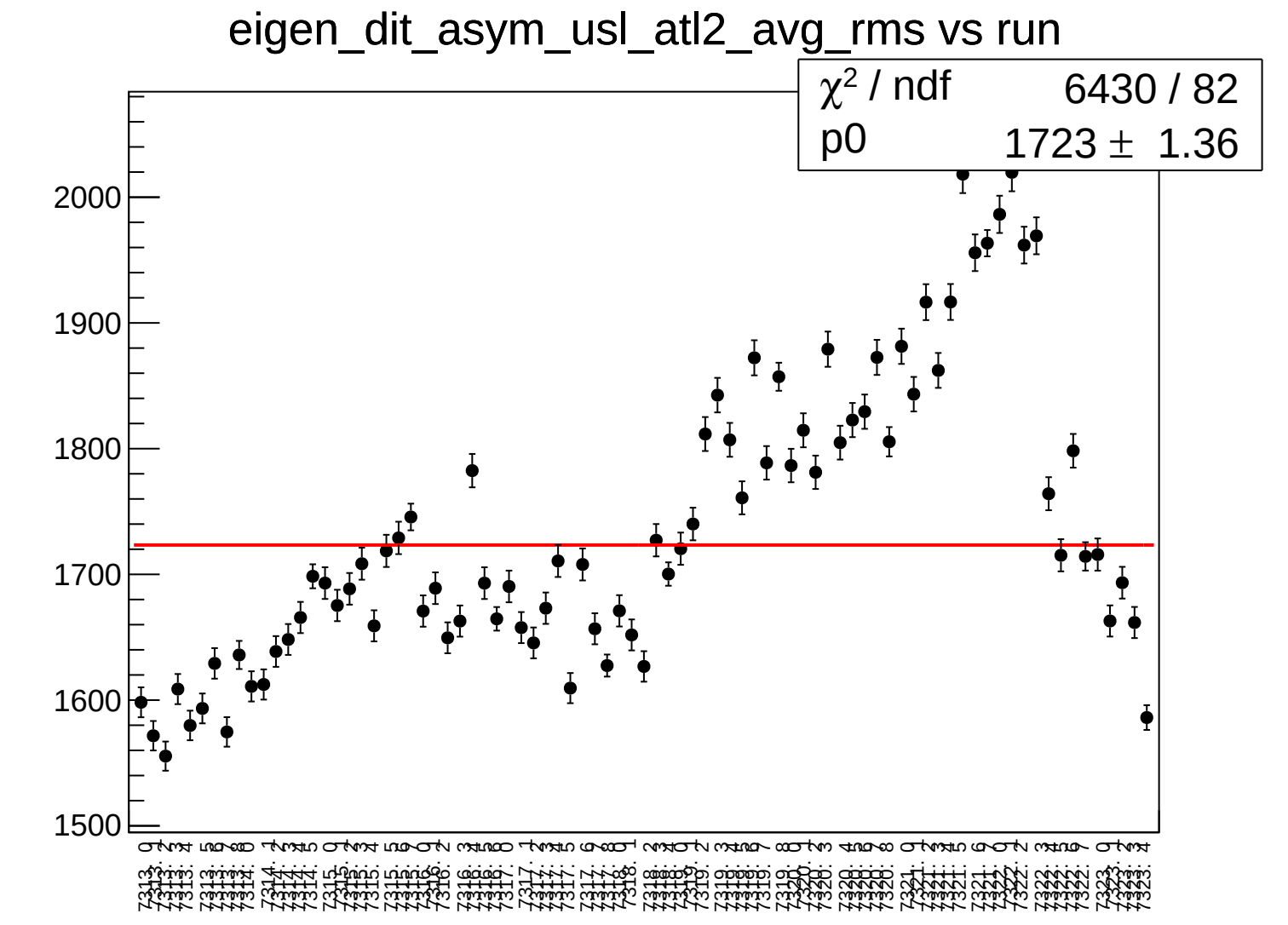

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.09 / 82
p0 9543 ± 8786
pull
Entries 83
Mean 709.2
Std Dev 0

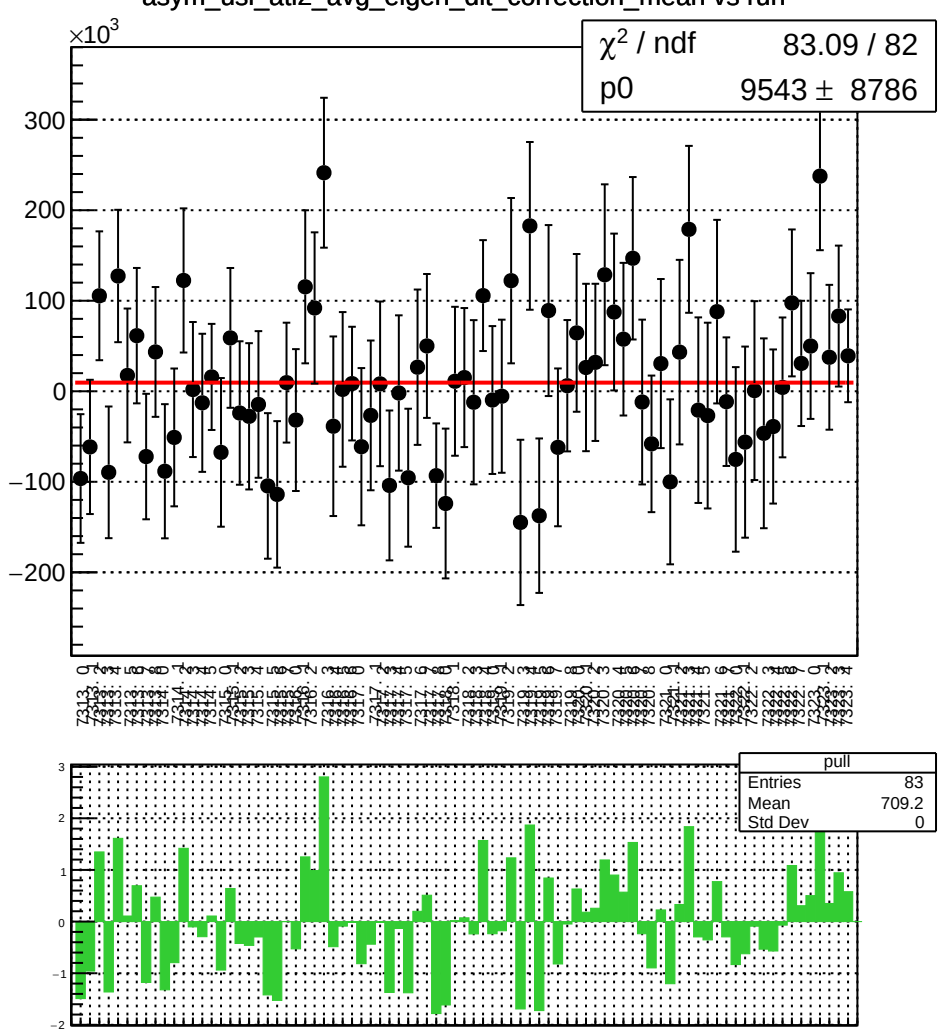

pull1D
Entries 83
Mean 0.007017
Std Dev 1.001

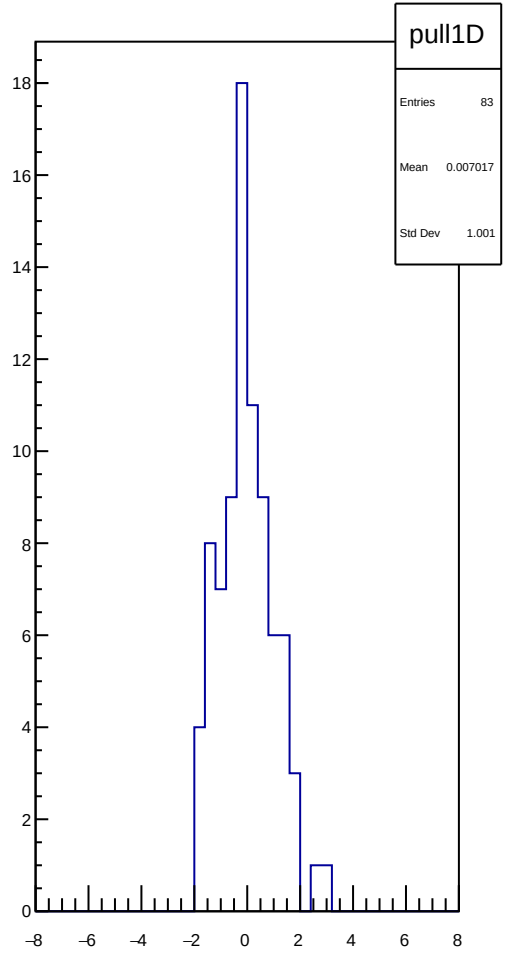

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.791e+04 / 82
p0 7843 ± 6.213
10000
9000
8000
7000
6000

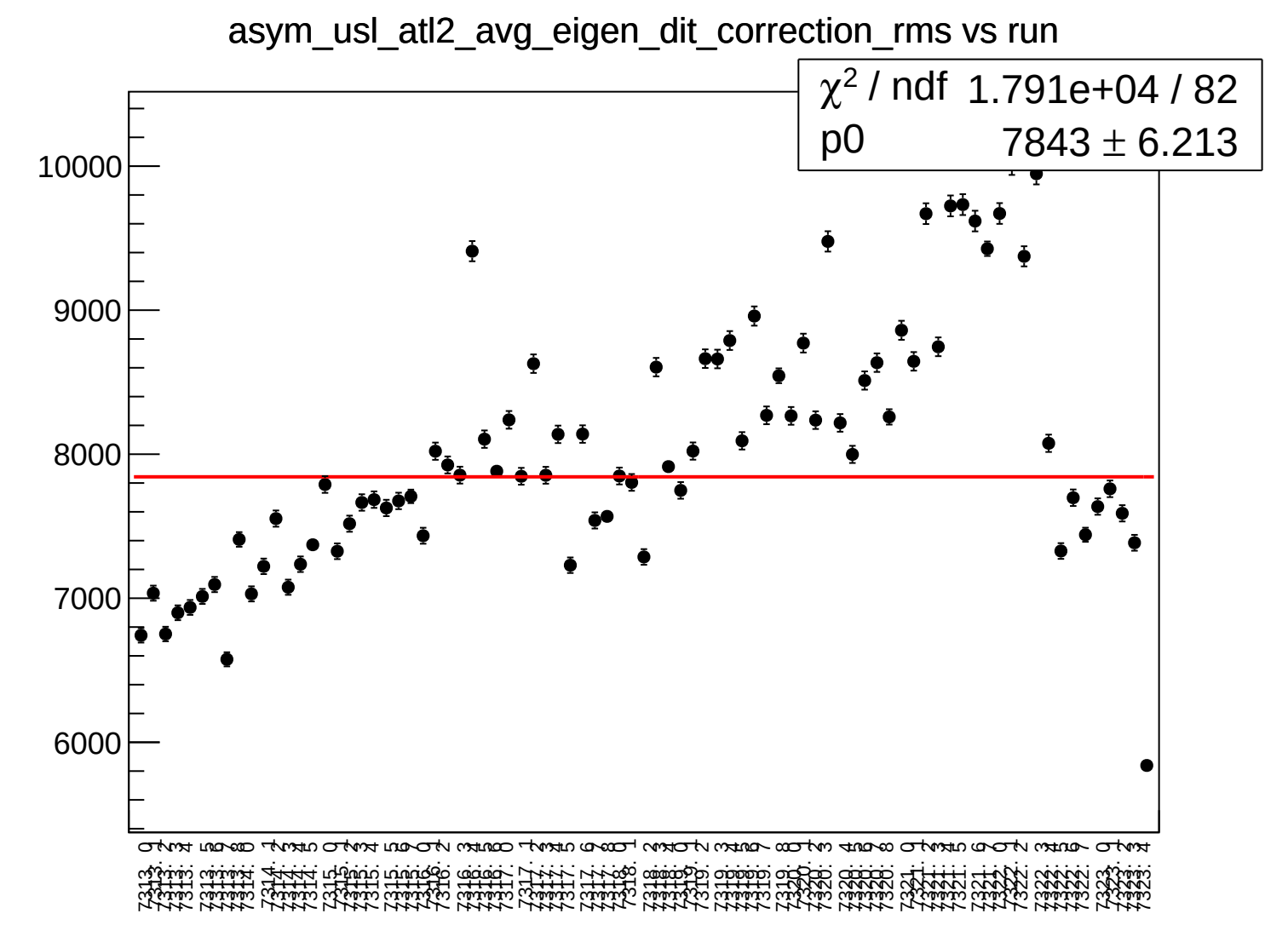

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.37 / 82
p0 2417 ± 1924
pull
Entries 83
Mean 319.5
Std Dev 0

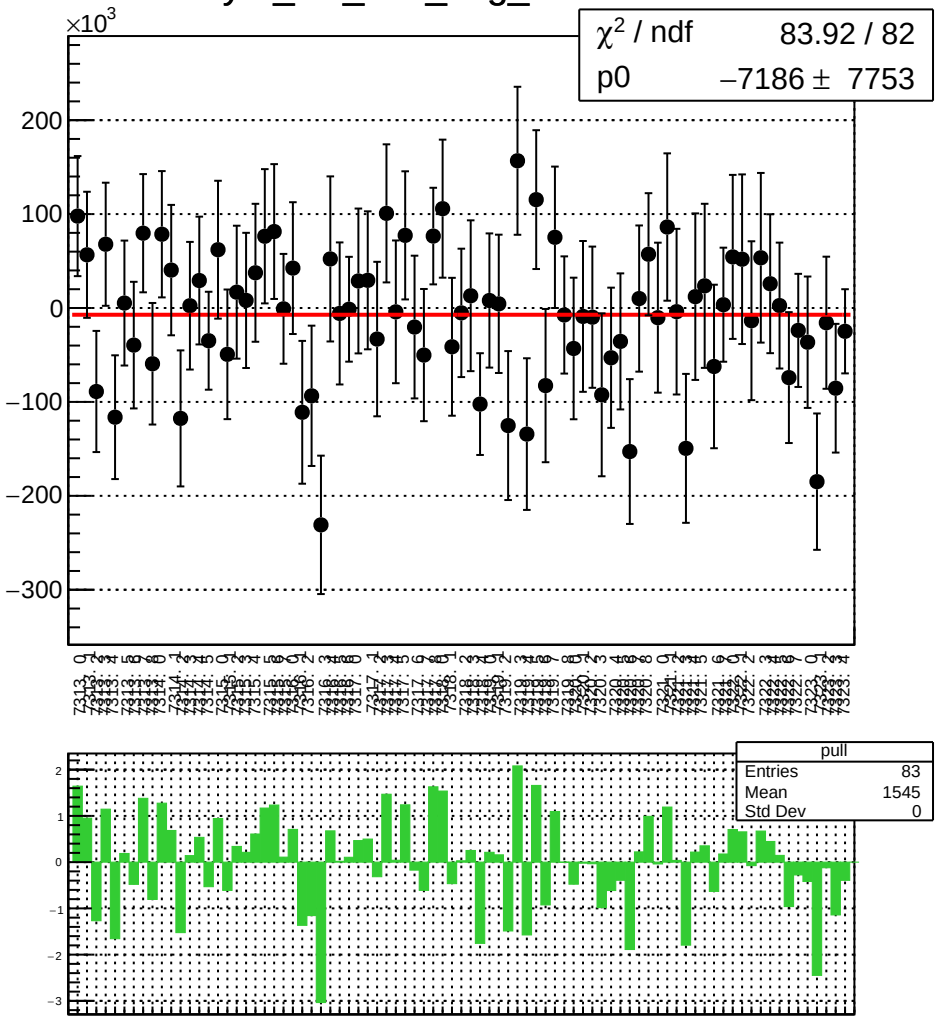

pull1D
Entries 83
Mean 0.02089
Std Dev 0.9838

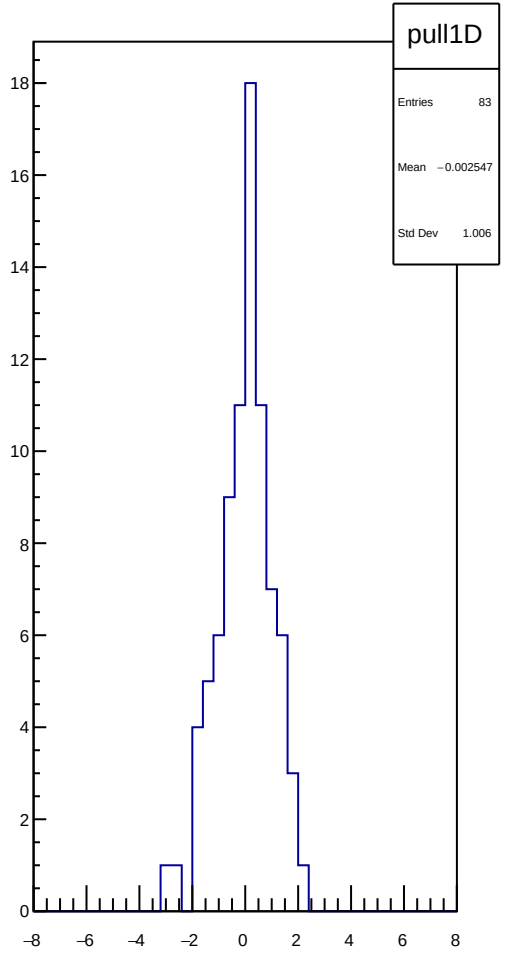

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 6430 / 82
p0 1723 ± 1.36
2000
1900
1800
1700
1600
1500

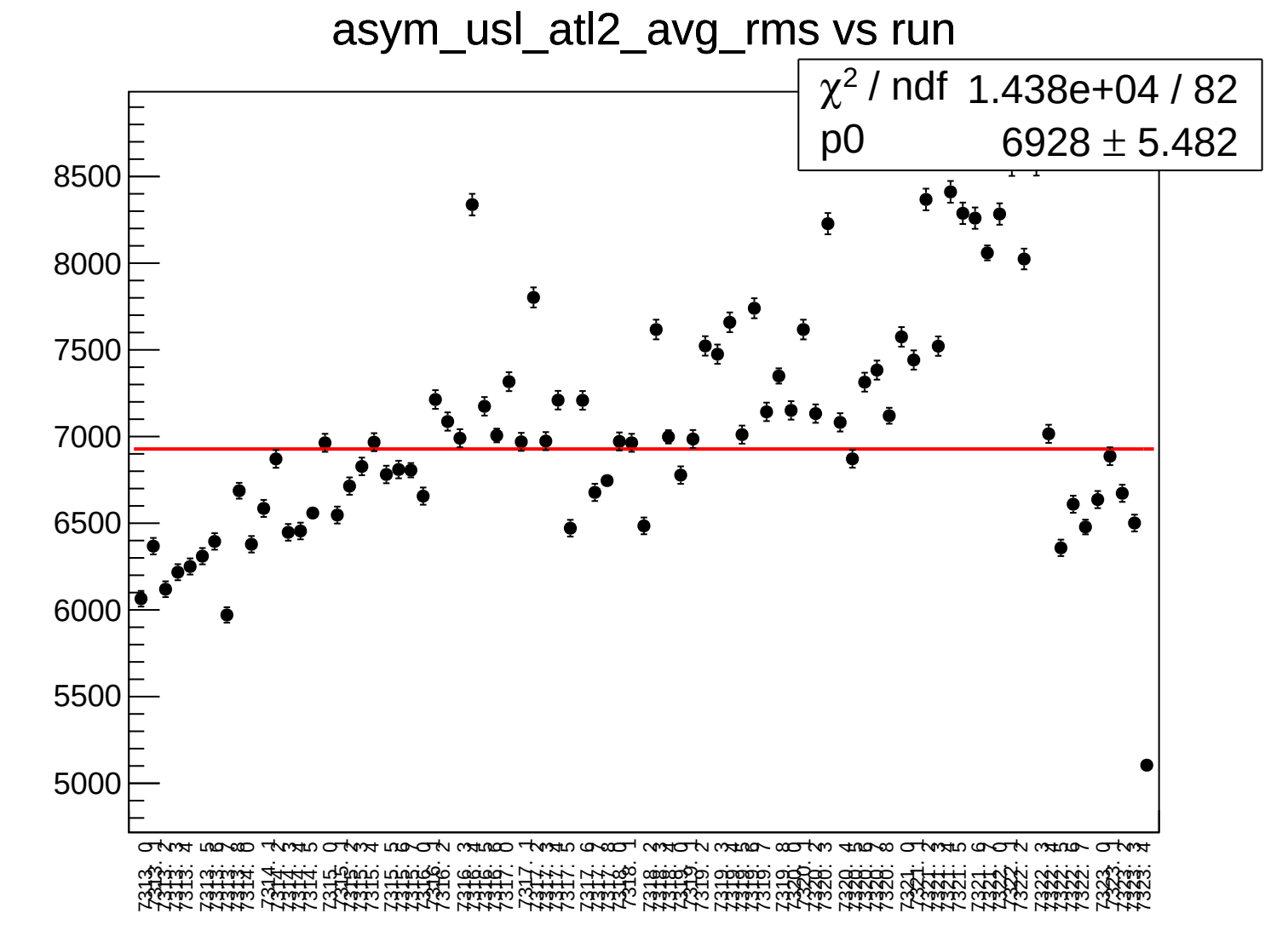

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.09 / 82
p0 9543 ± 8786
pull
Entries 83
Mean 709.2
Std Dev 0

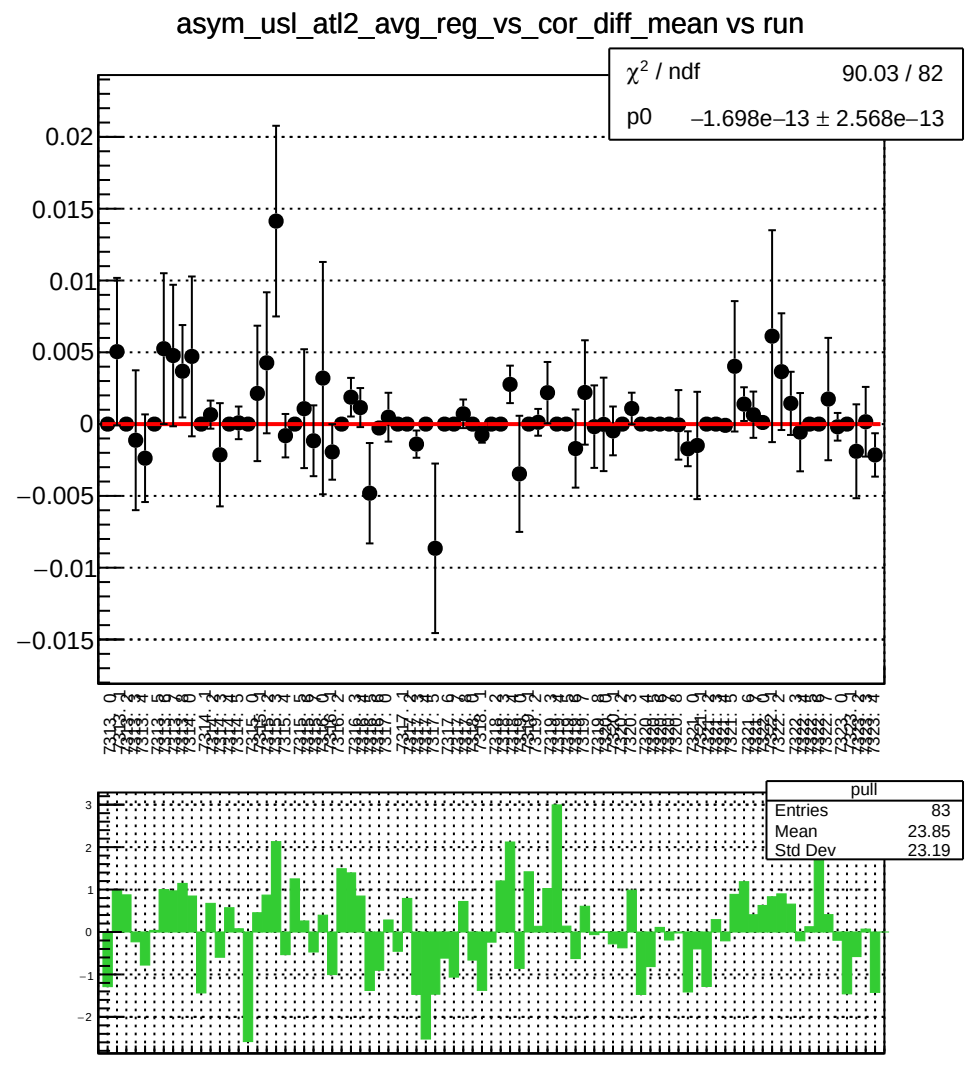

pull1D
Entries 83
Mean 0.007017
Std Dev 1.001

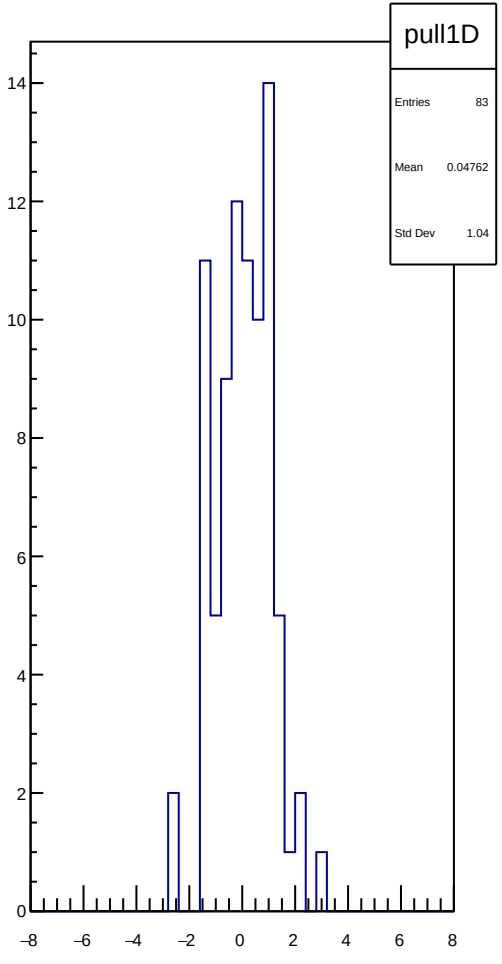

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.791e+04 / 82
p0 7843 ± 6.213
10000
9000
8000
7000
6000

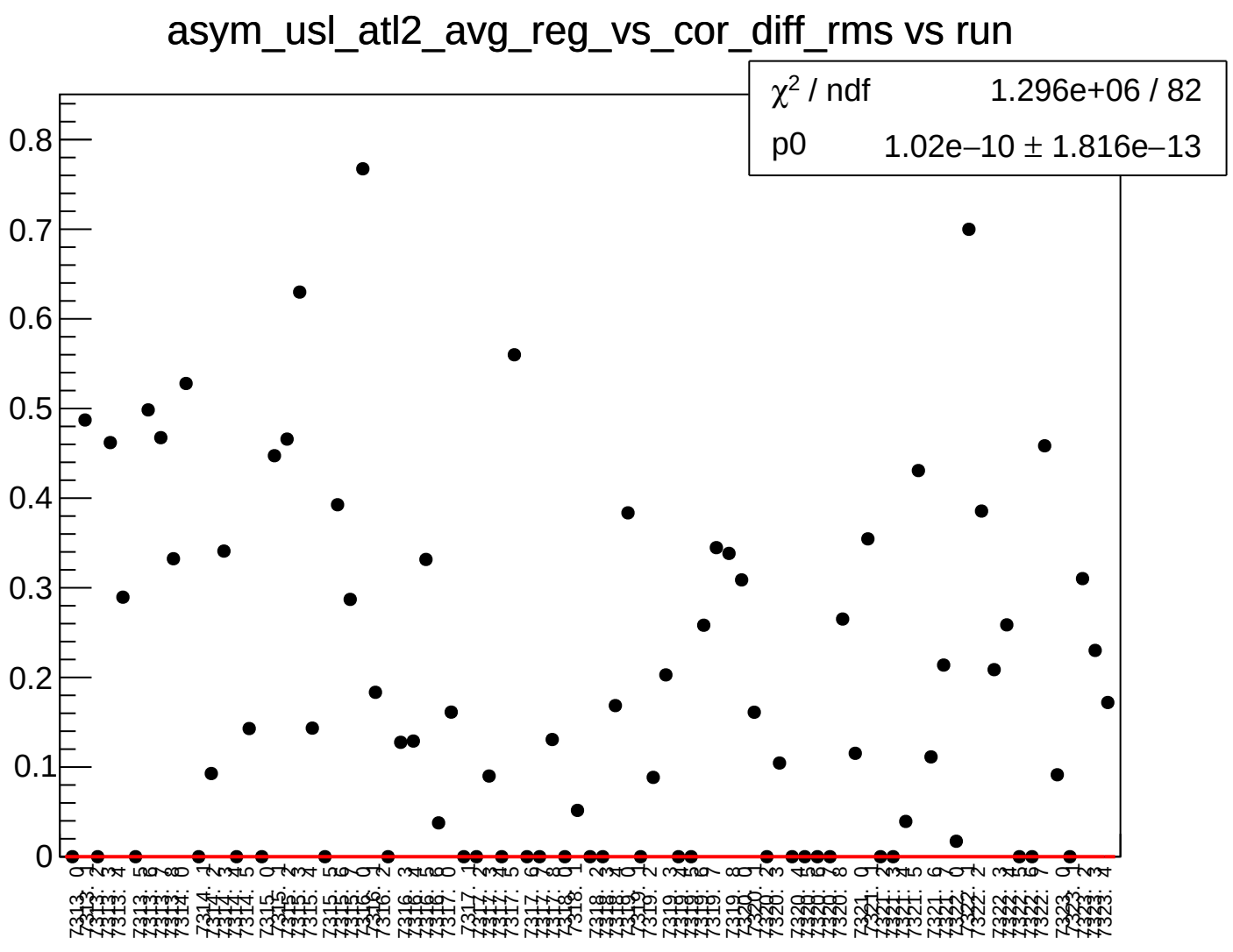

asym_usl_atl2_avg_mean vs run
χ² / ndf 83.92 / 82
p0 −7186 ± 7753
×10³
200
100
0
−100
−200
−300
pull
Entries 83
Mean 1545
Std Dev 0
2
1
0
−1
−2
−3

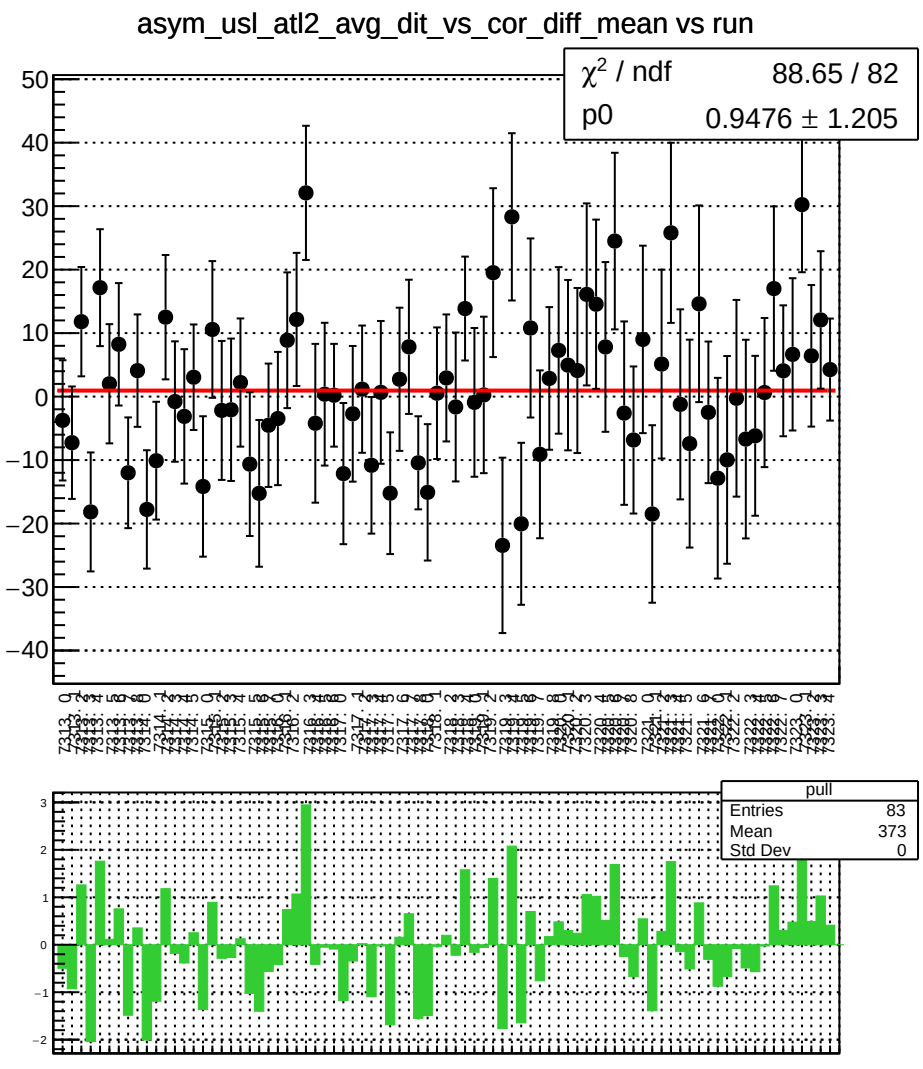

pull1D
Entries 83
Mean −0.002547
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

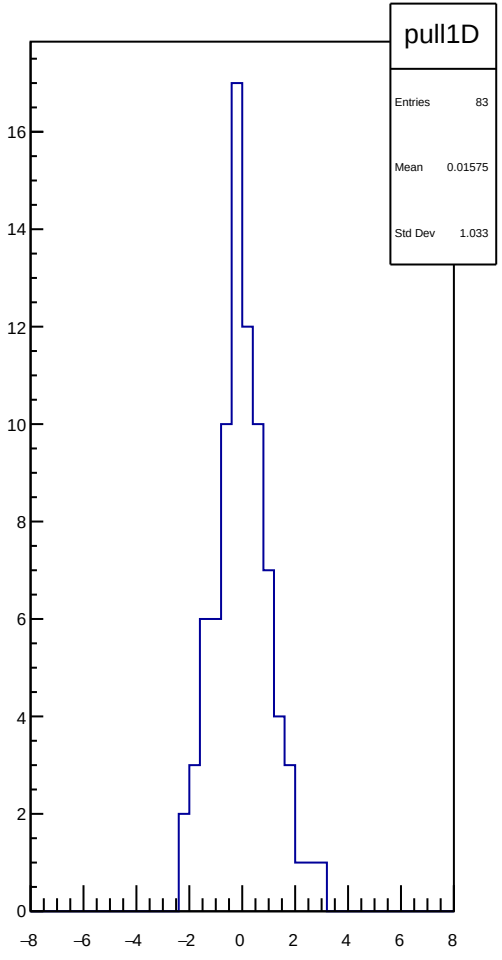

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.438e+04 / 82
p0 6928 ± 5.482
8500
8000
7500
7000
6500
6000
5500
5000

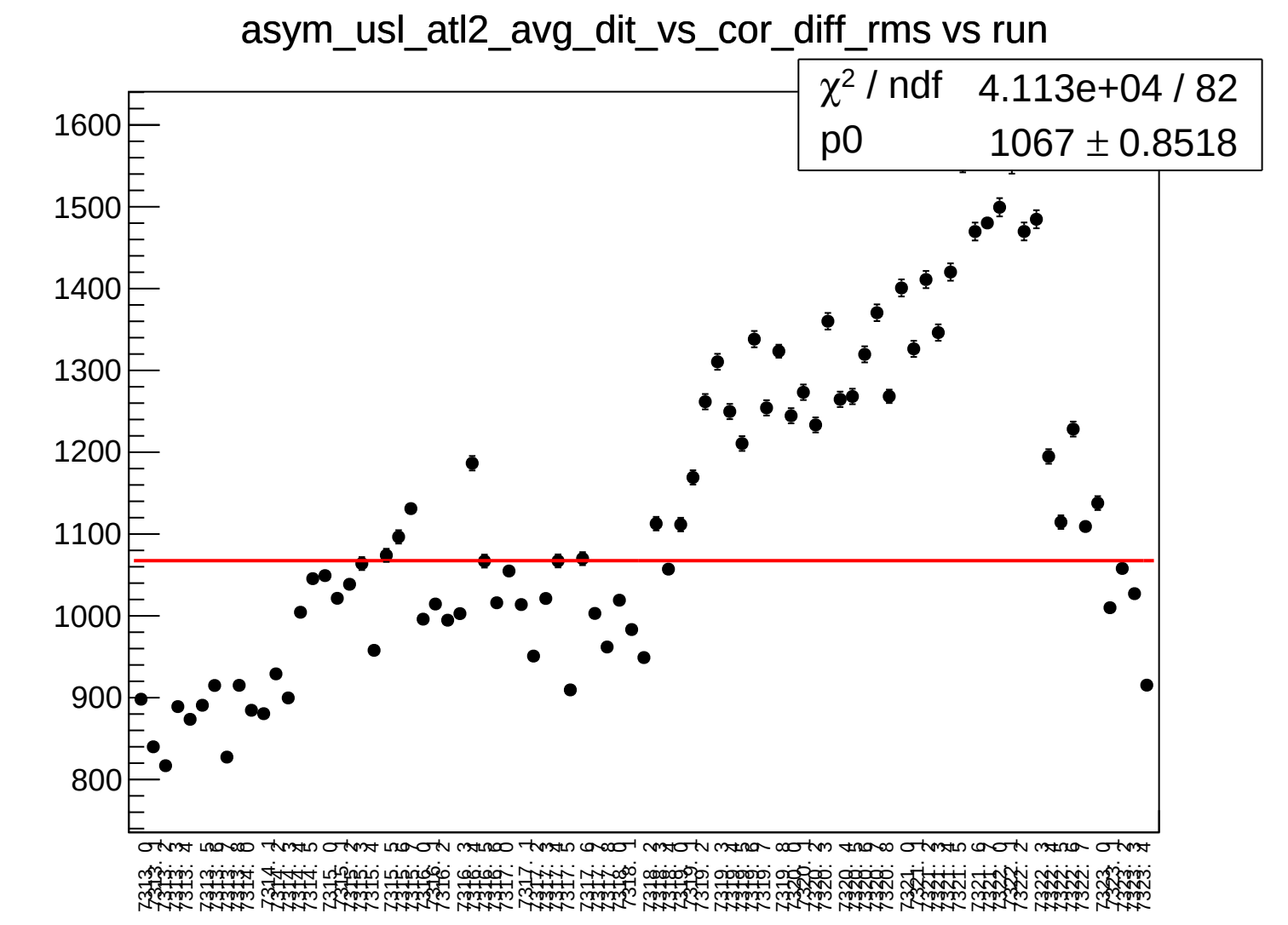

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 82
p0 −1.698e−13 ± 2.568e−13
pull
Entries 83
Mean 23.85
Std Dev 23.19

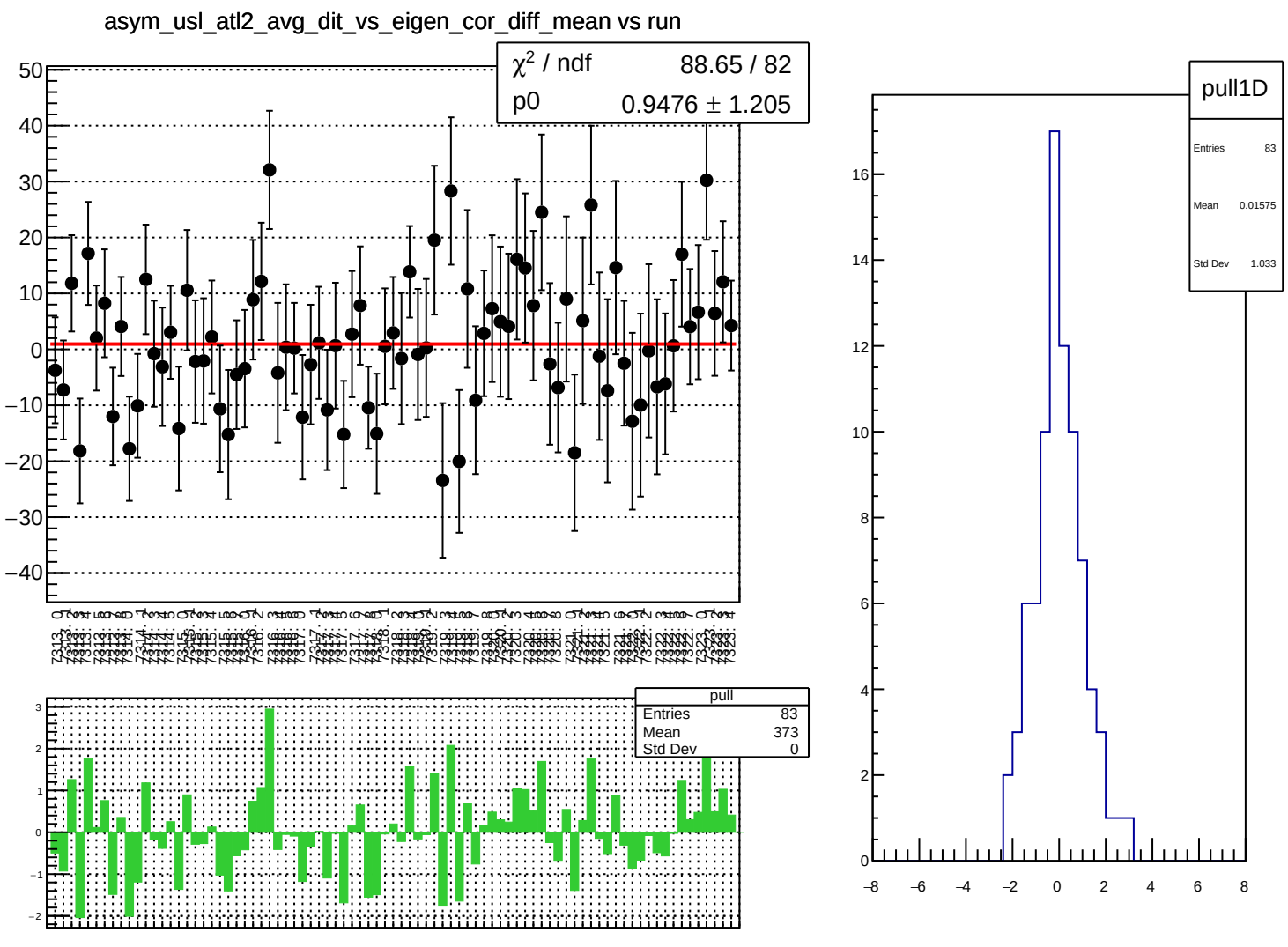

pull1D
Entries 83
Mean 0.04762
Std Dev 1.04

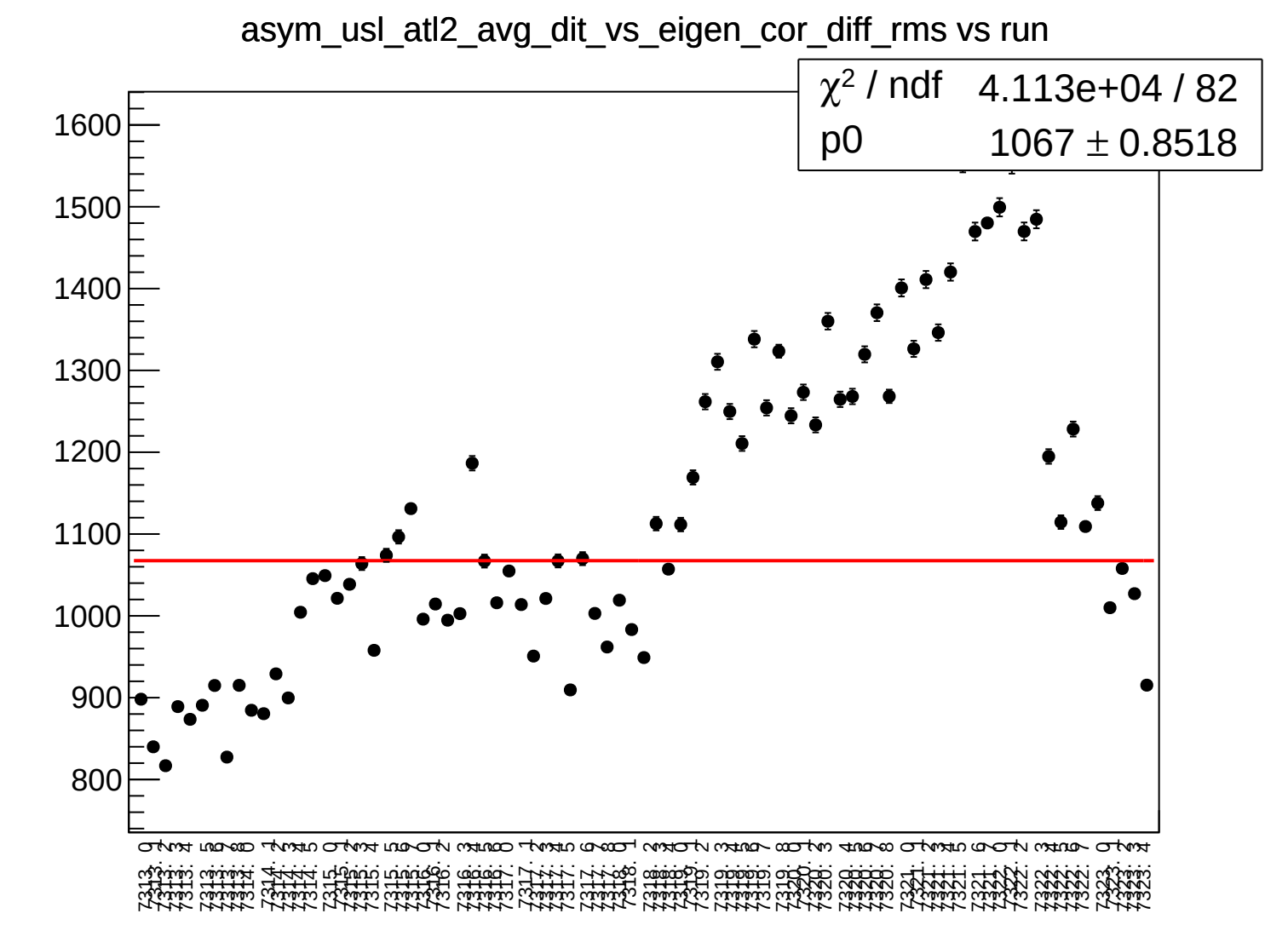

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.296e+06 / 82
p0 1.02e−10 ± 1.816e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

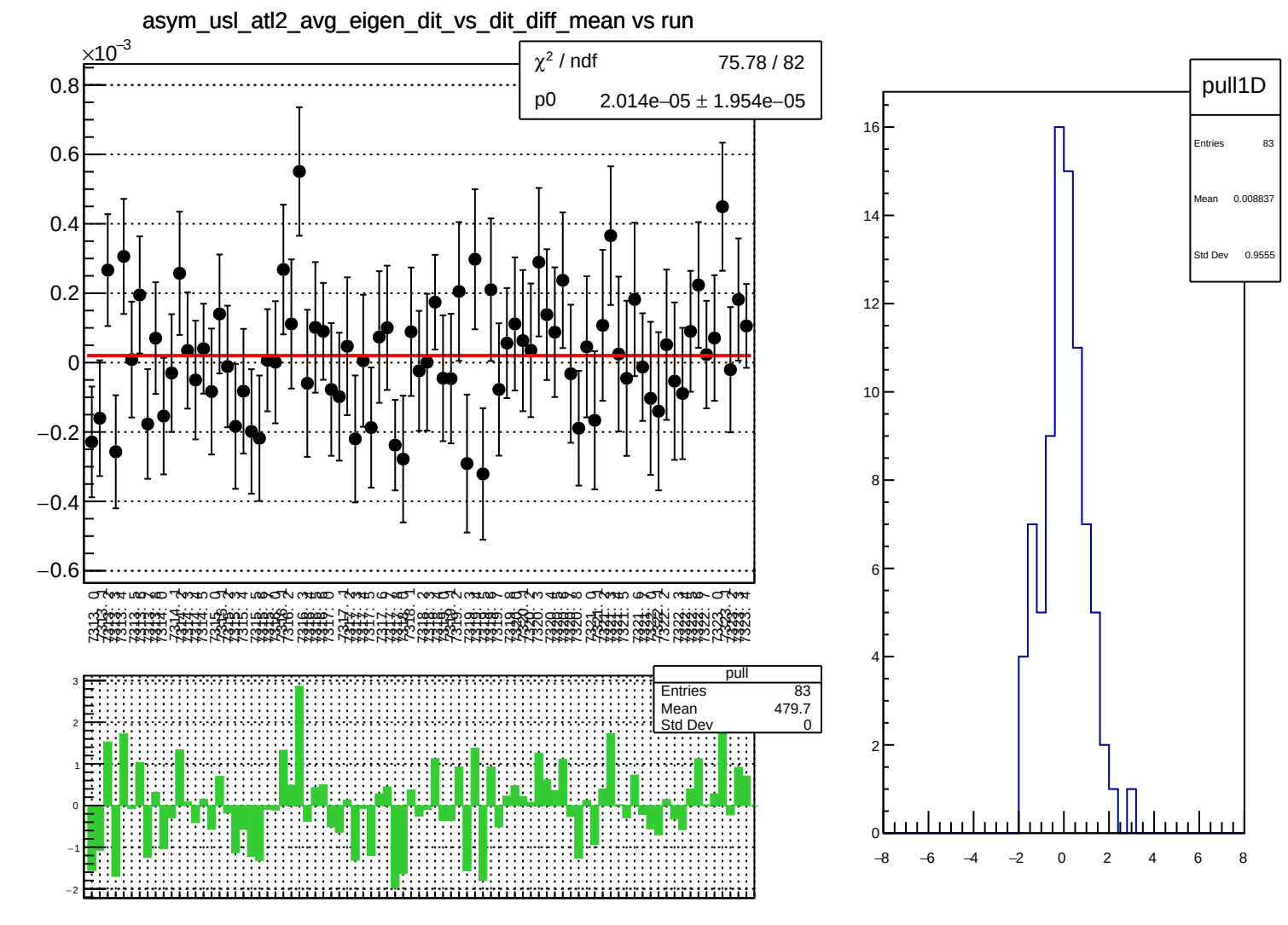

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.65 / 82
p0 0.9476 ± 1.205
pull
Entries 83
Mean 373
Std Dev 0

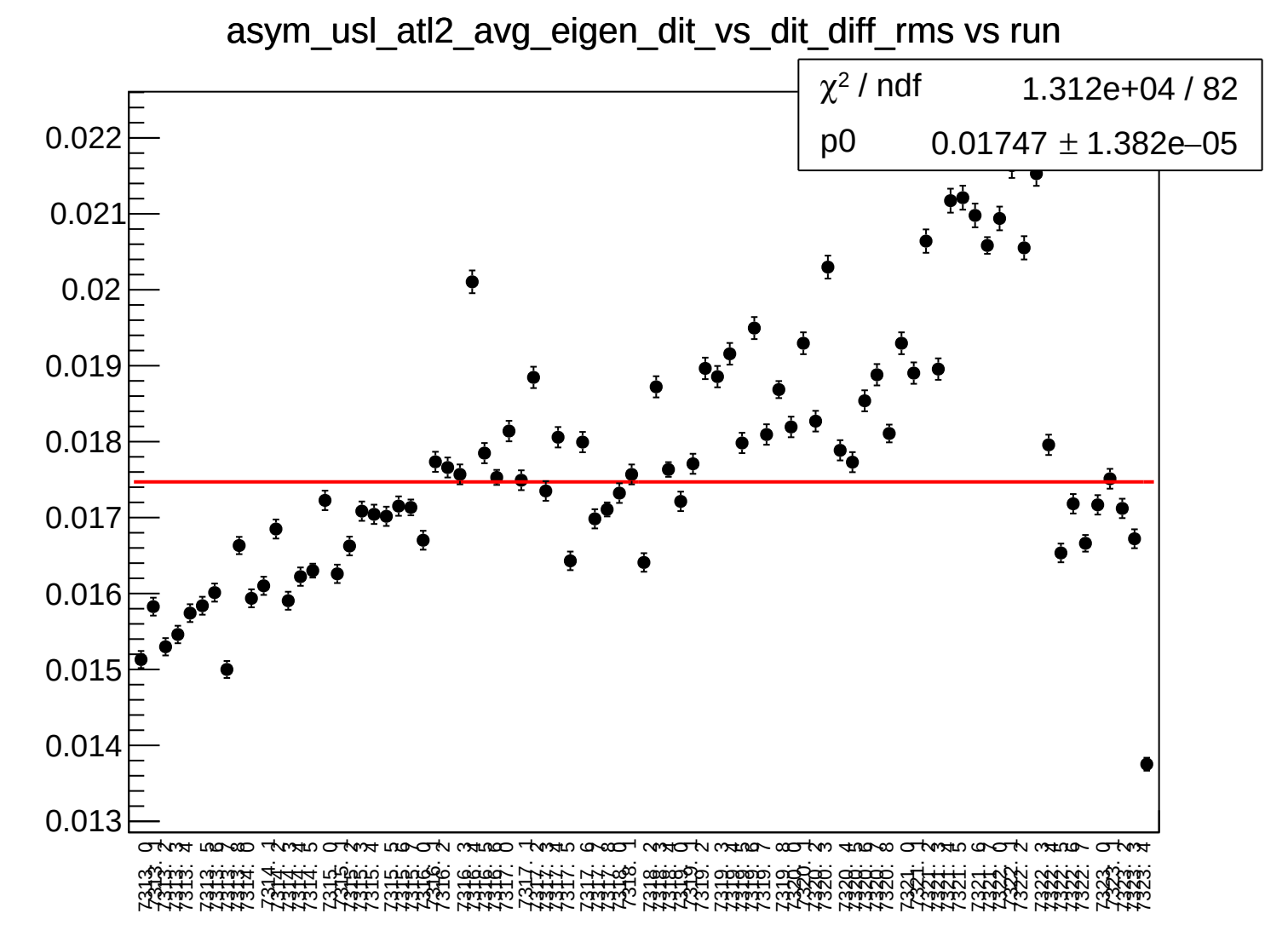

pull1D
Entries 83
Mean 0.01575
Std Dev 1.033

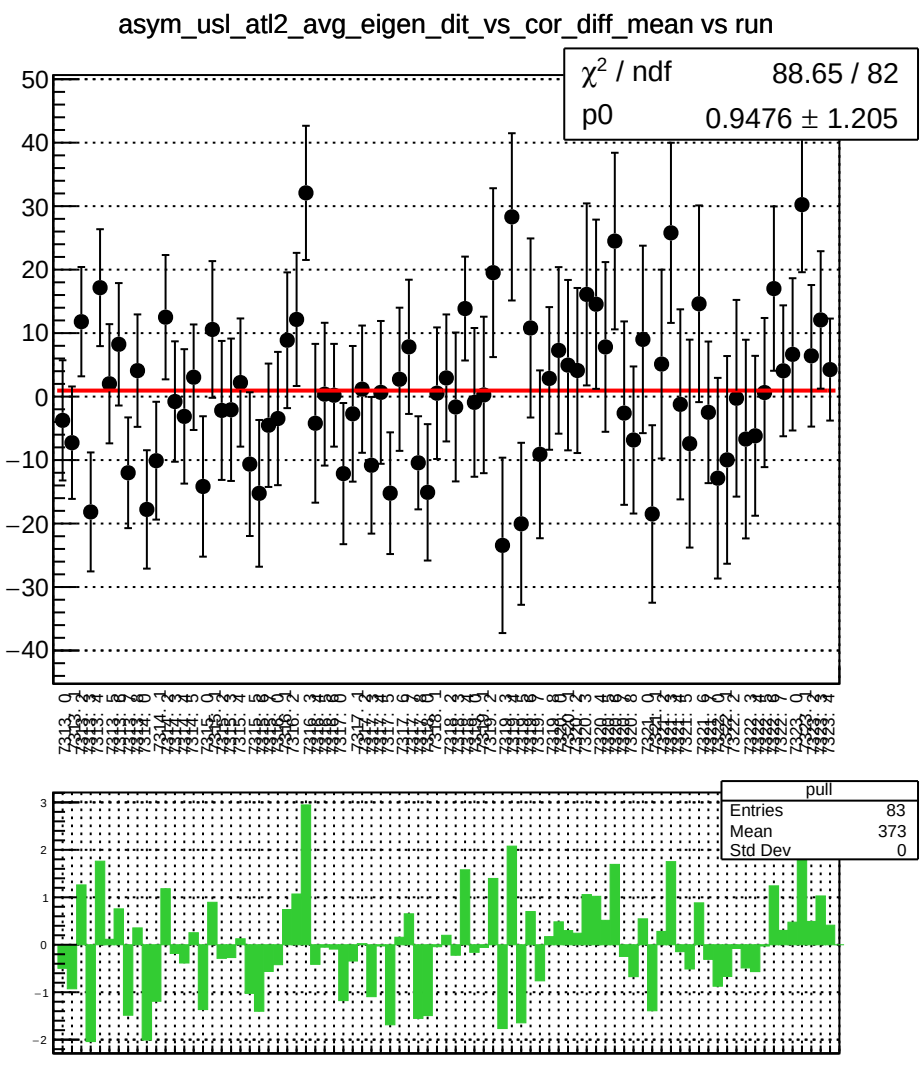

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 82
p0 1067 ± 0.8518
1600
1500
1400
1300
1200
1100
1000
900
800

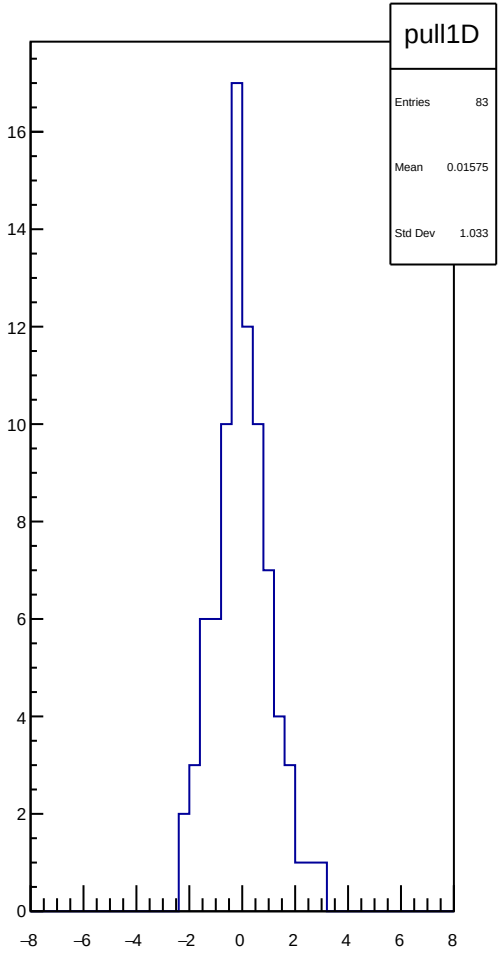

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.65 / 82
p0 0.9476 ± 1.205
pull
Entries 83
Mean 373
Std Dev 0
pull1D
Entries 83
Mean 0.01575
Std Dev 1.033

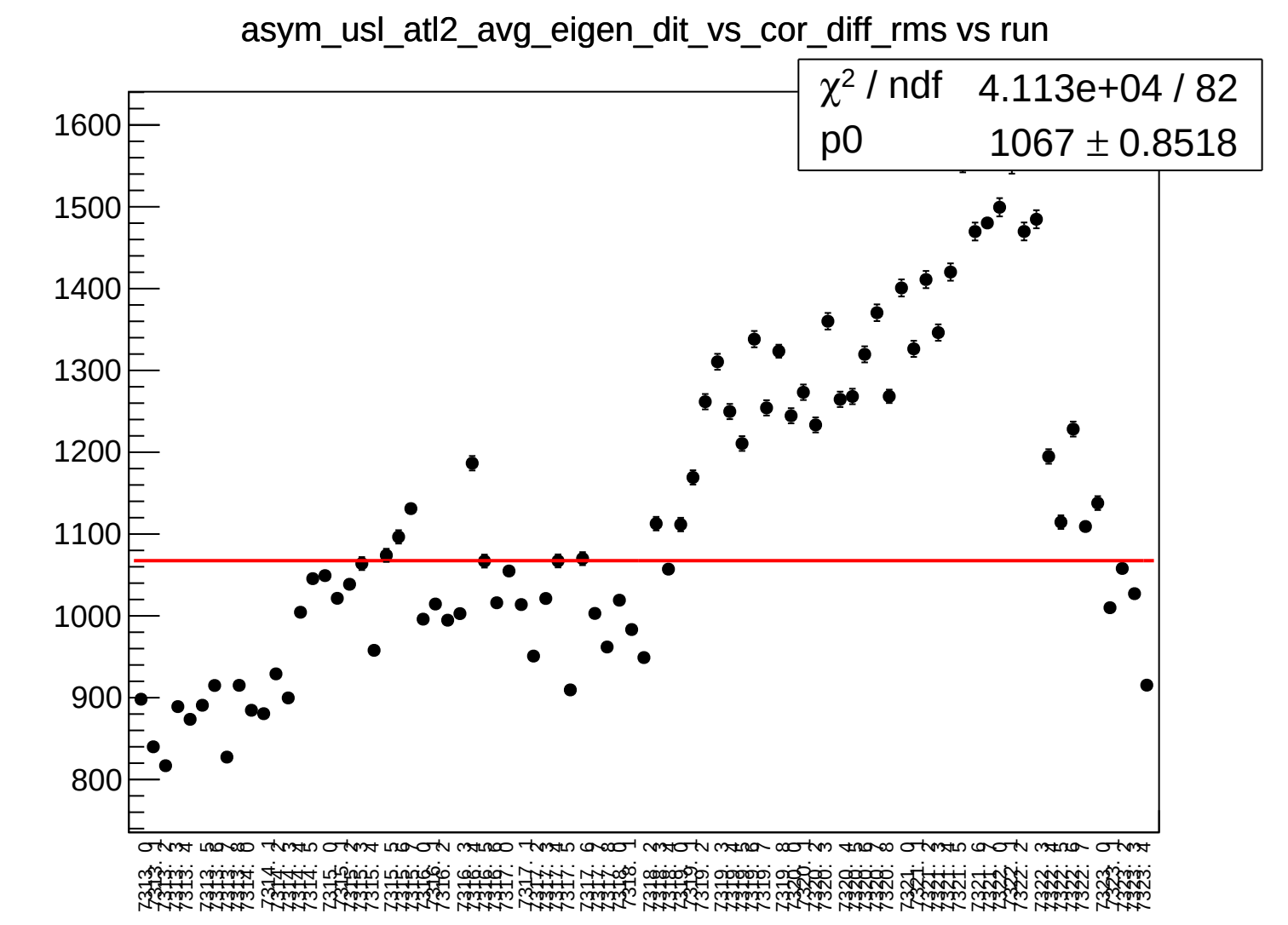

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 82
p0 1067 ± 0.8518
1600
1500
1400
1300
1200
1100
1000
900
800

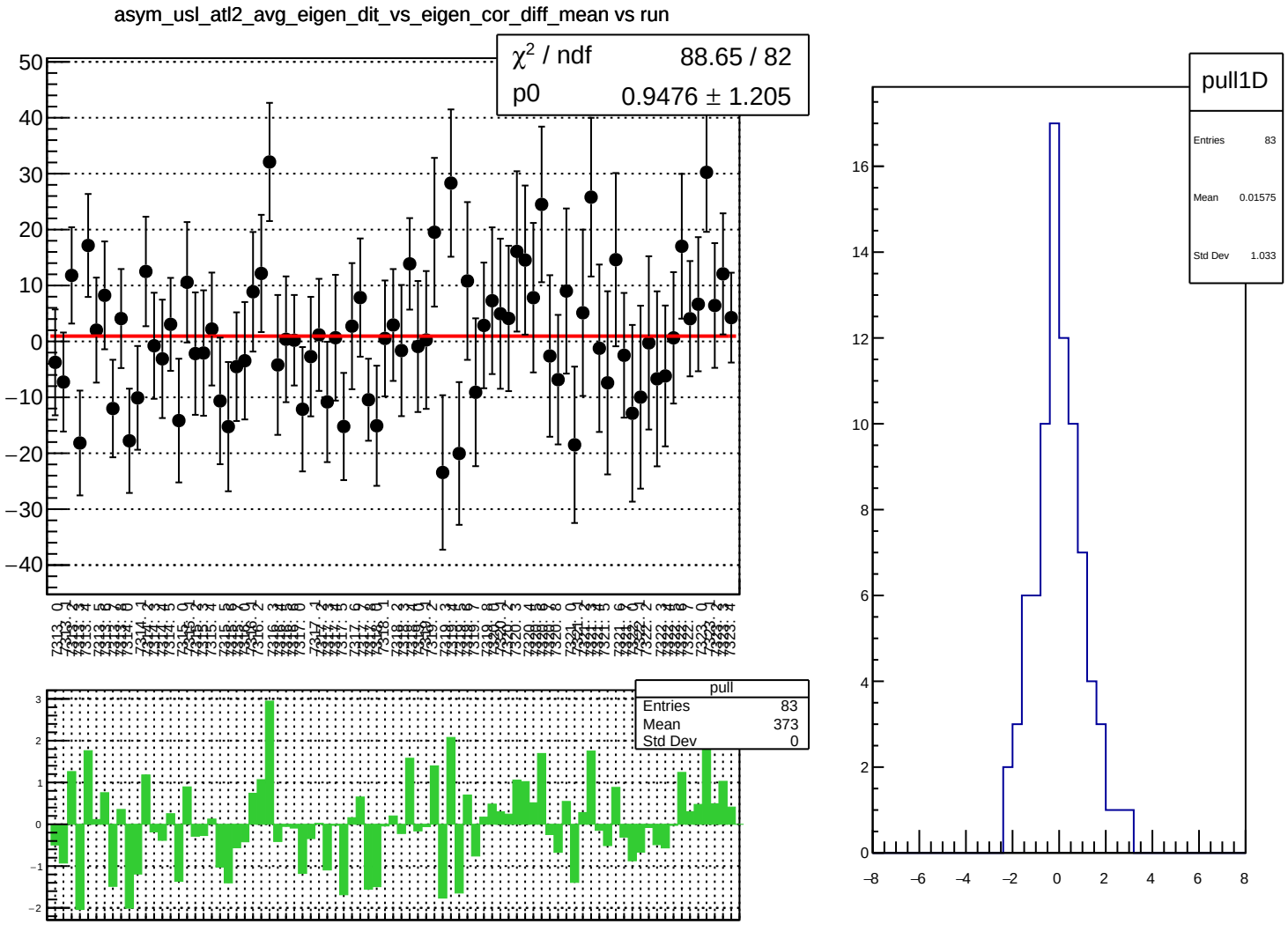

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.78 / 82
p0 2.014e−05 ± 1.954e−05
pull
Entries 83
Mean 479.7
Std Dev 0
pull1D
Entries 83
Mean 0.008837
Std Dev 0.9555

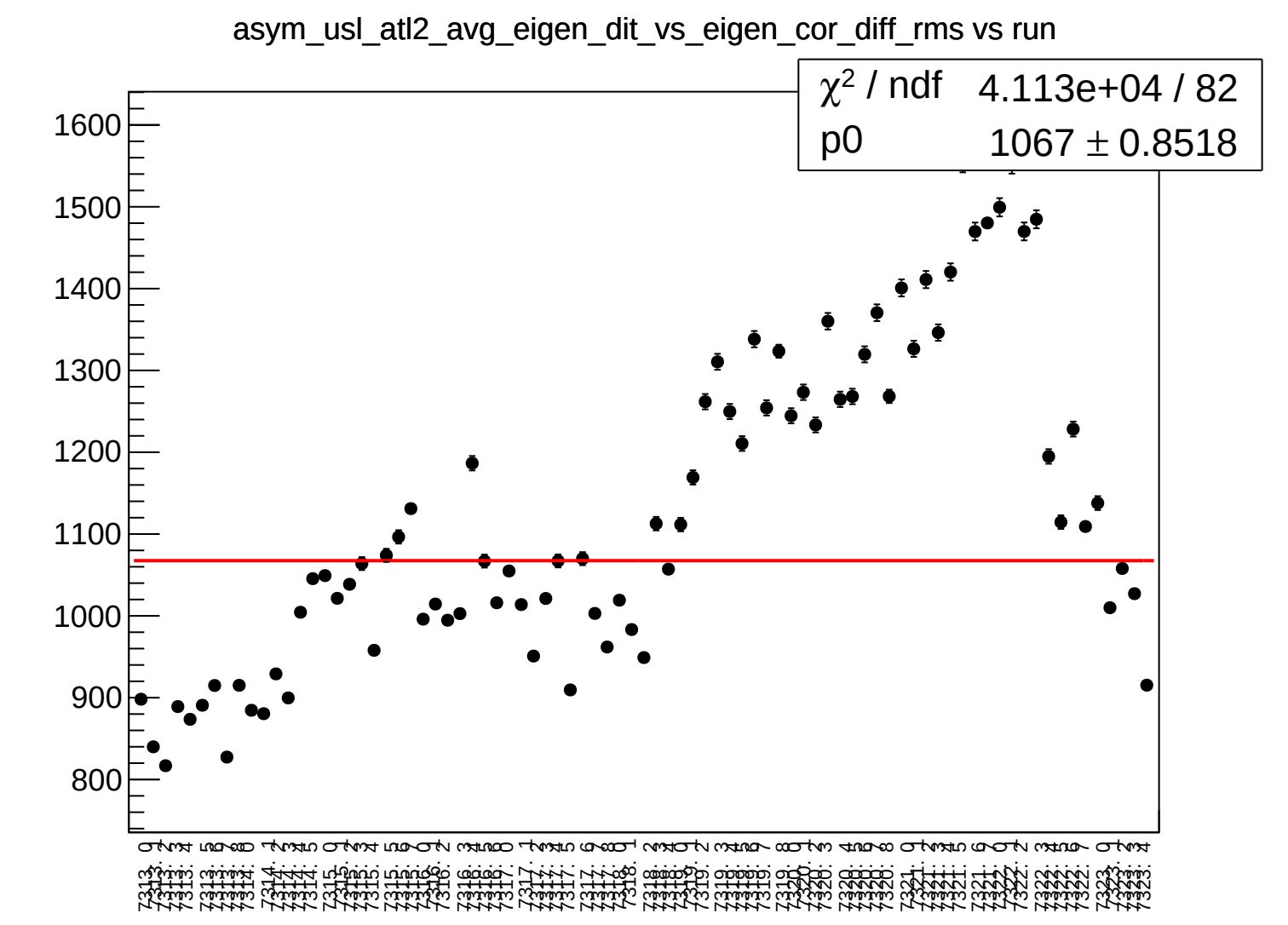

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.312e+04 / 82
p0 0.01747 ± 1.382e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

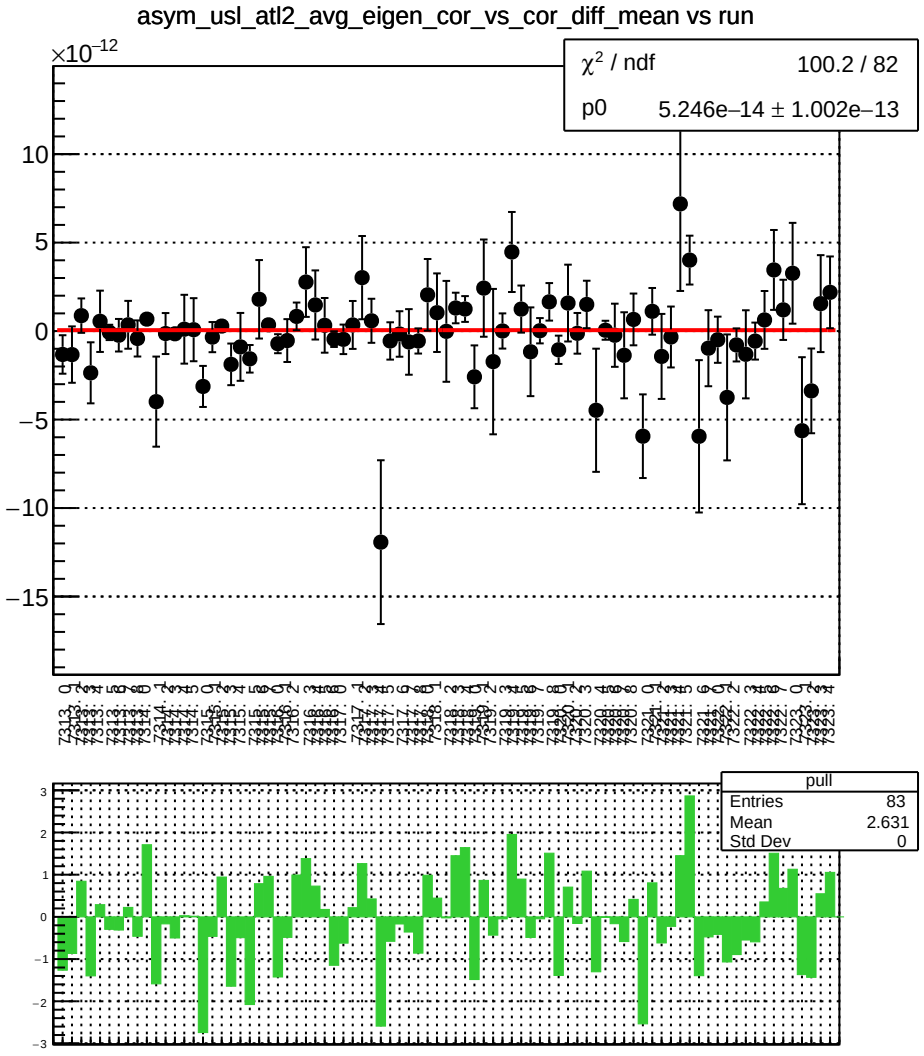

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.65 / 82
p0 0.9476 ± 1.205
pull
Entries 83
Mean 373
Std Dev 0

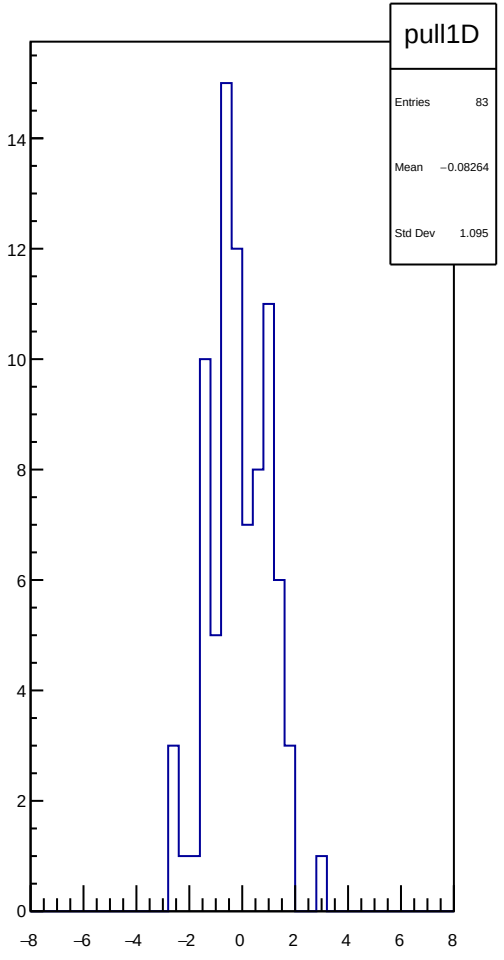

pull1D
Entries 83
Mean 0.01575
Std Dev 1.033

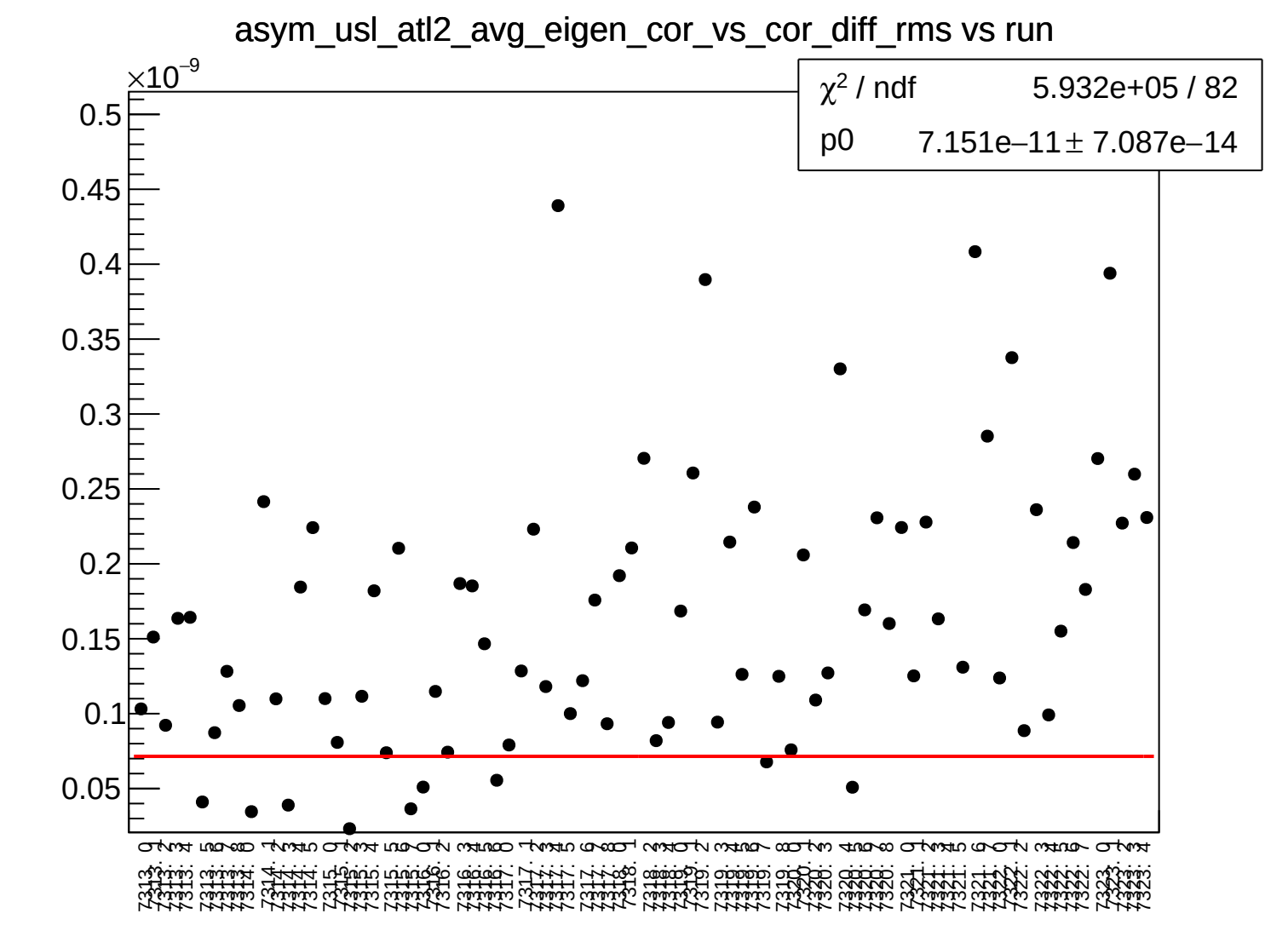

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 82
p0 1067 ± 0.8518
1600
1500
1400
1300
1200
1100
1000
900
800

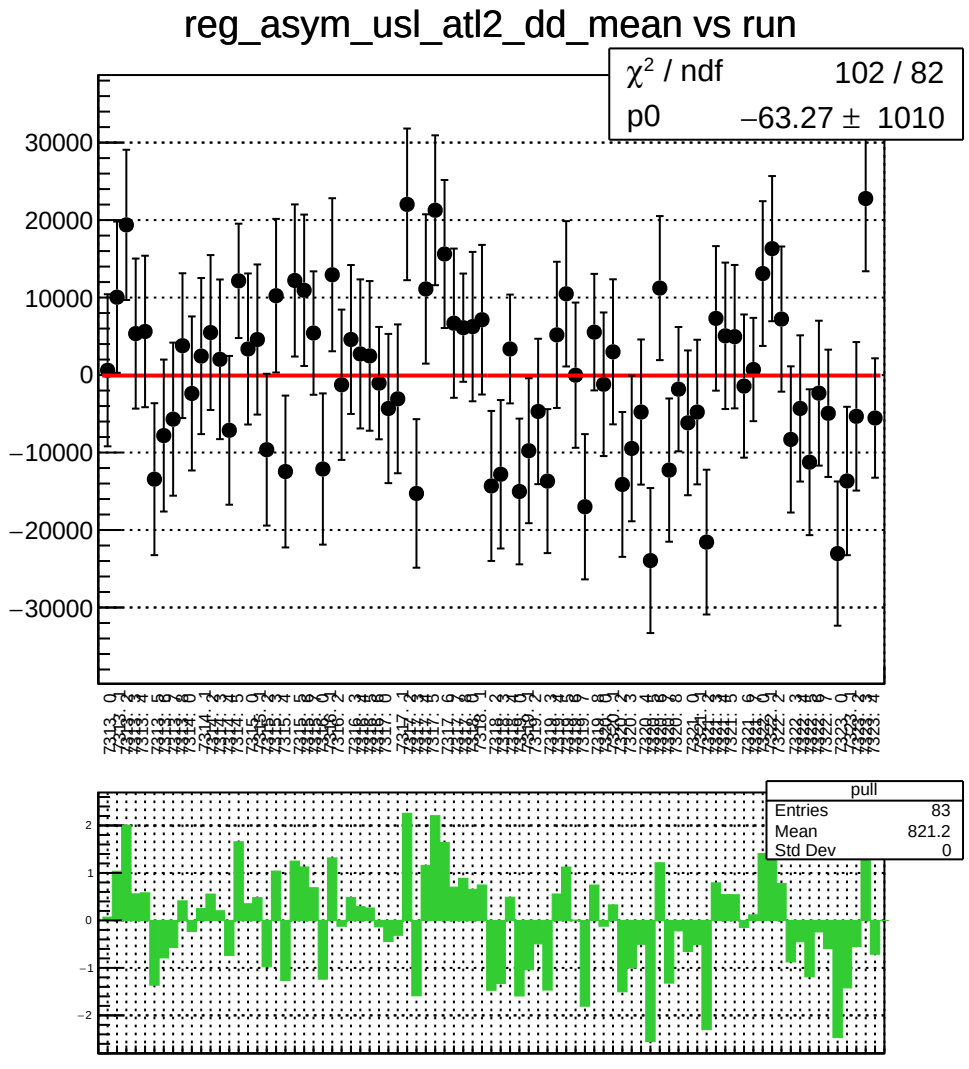

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.65 / 82
p0 0.9476 ± 1.205
pull
Entries 83
Mean 373
Std Dev 0
pull1D
Entries 83
Mean 0.01575
Std Dev 1.033

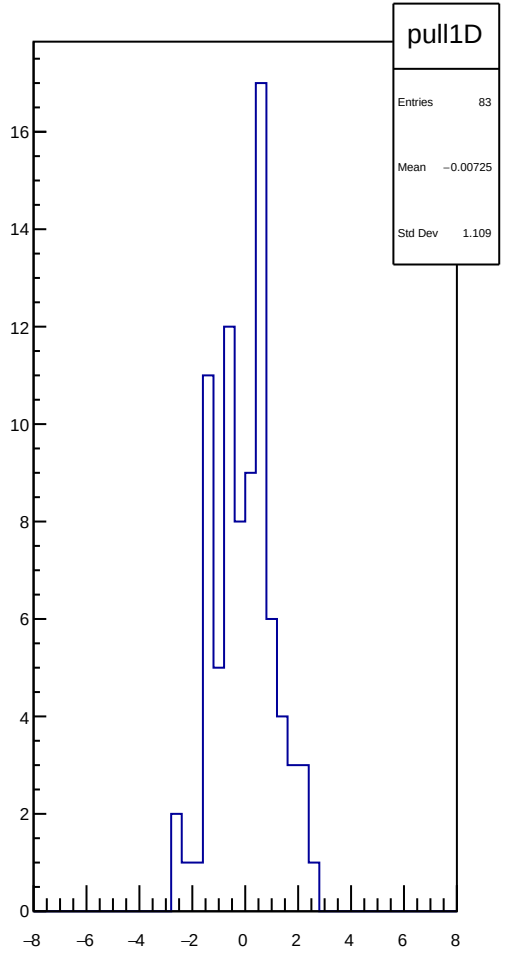

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 82
p0 1067 ± 0.8518
1600
1500
1400
1300
1200
1100
1000
900
800

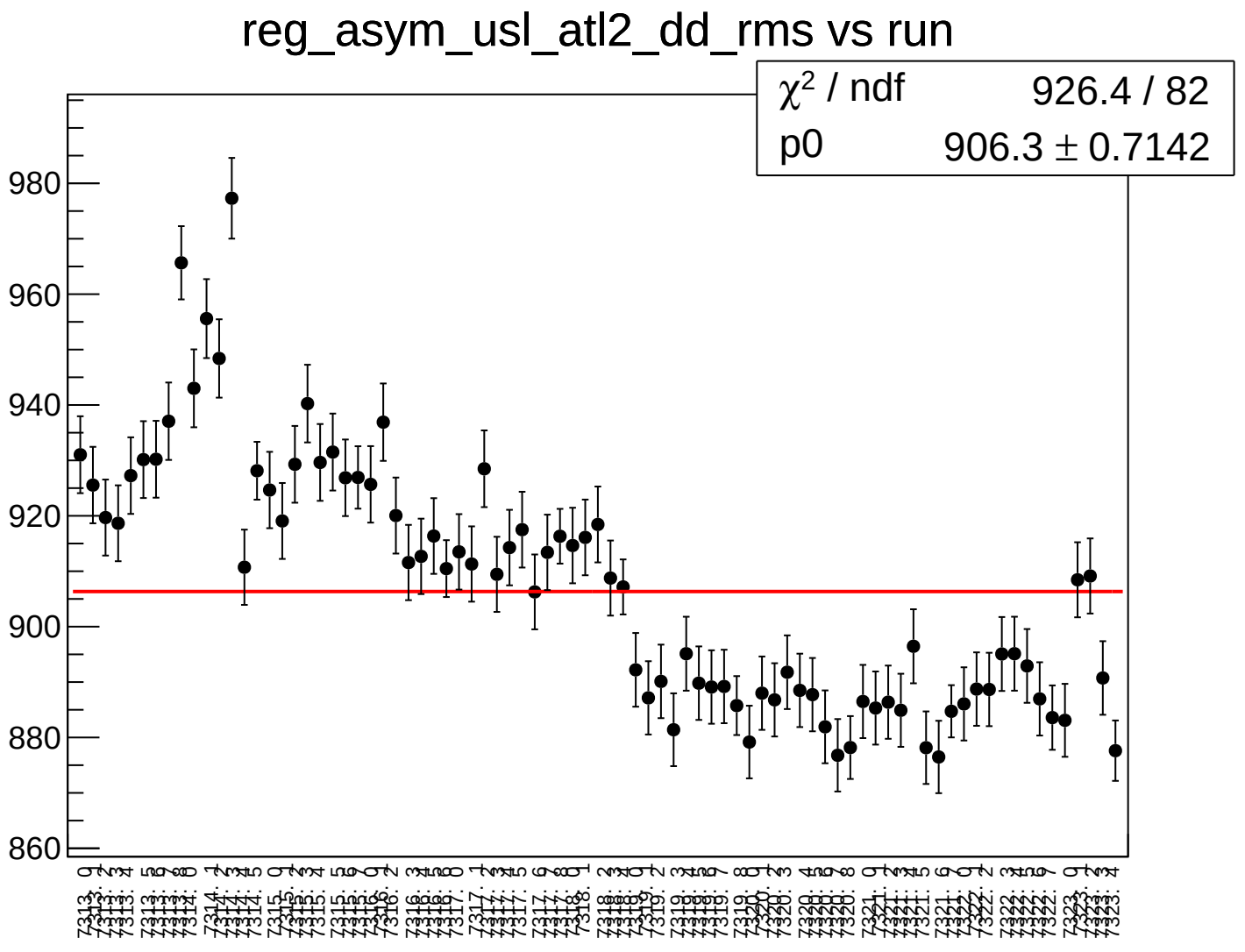

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.2 / 82
p0 5.246e−14 ± 1.002e−13
pull
Entries 83
Mean 2.631
Std Dev 0

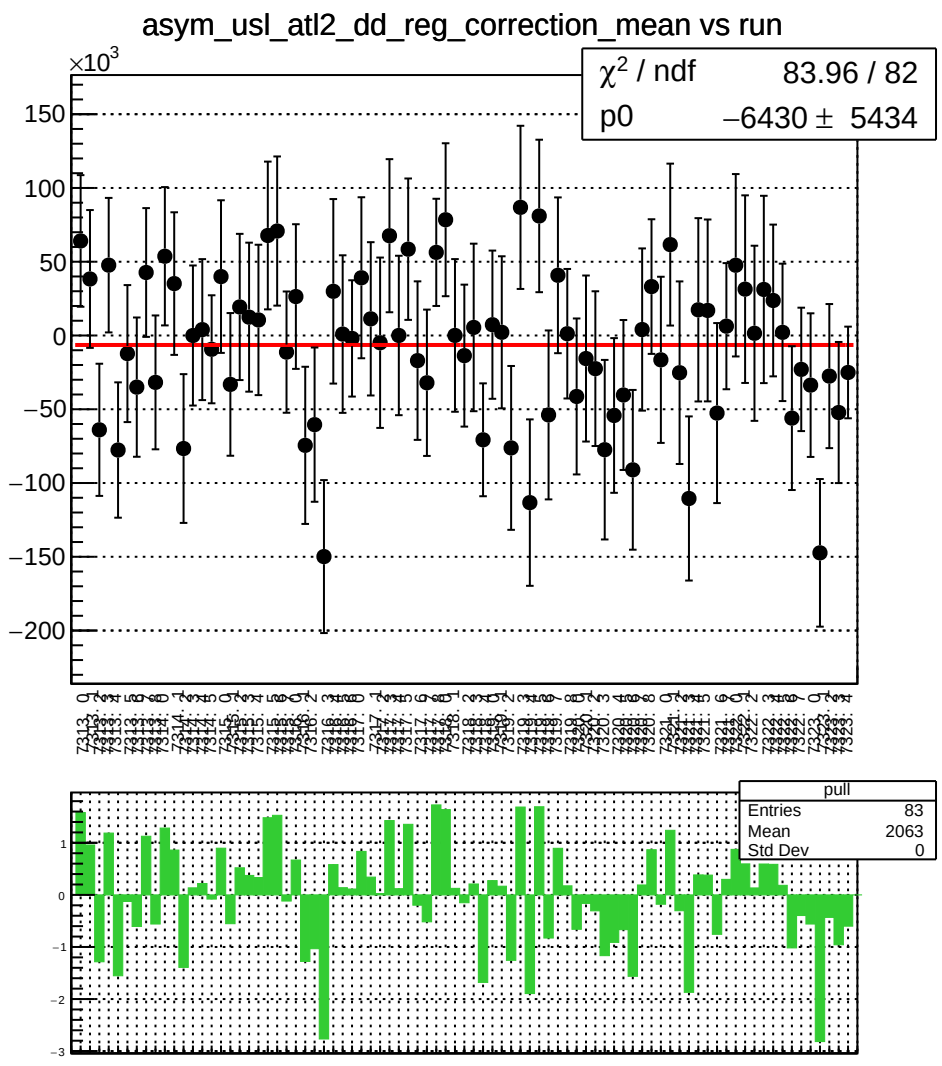

pull1D
Entries 83
Mean −0.08264
Std Dev 1.095

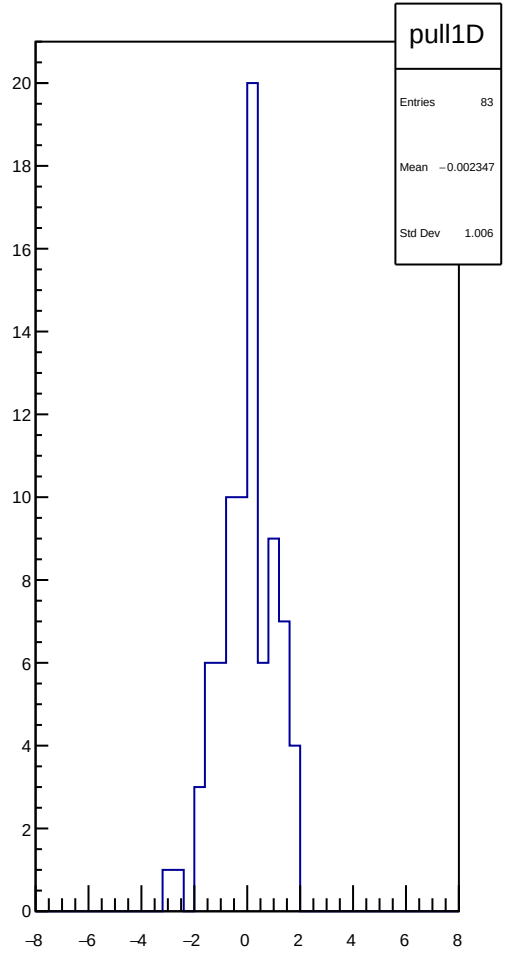

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.932e+05 / 82
p0 7.151e−11 ± 7.087e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

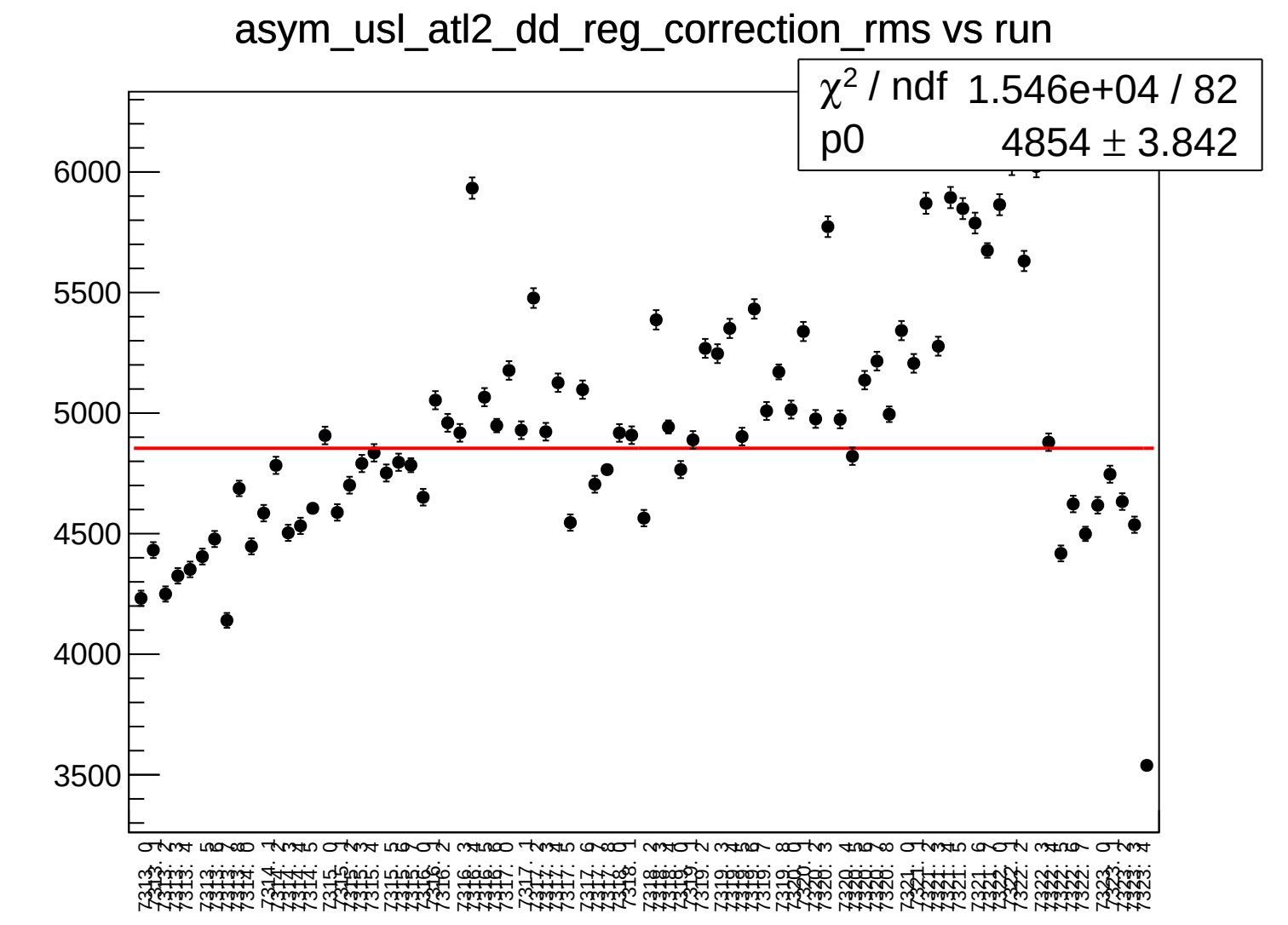

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 102 / 82
p0 −63.27 ± 1010
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 821.2
Std Dev 0
2
1
0
−1
−2

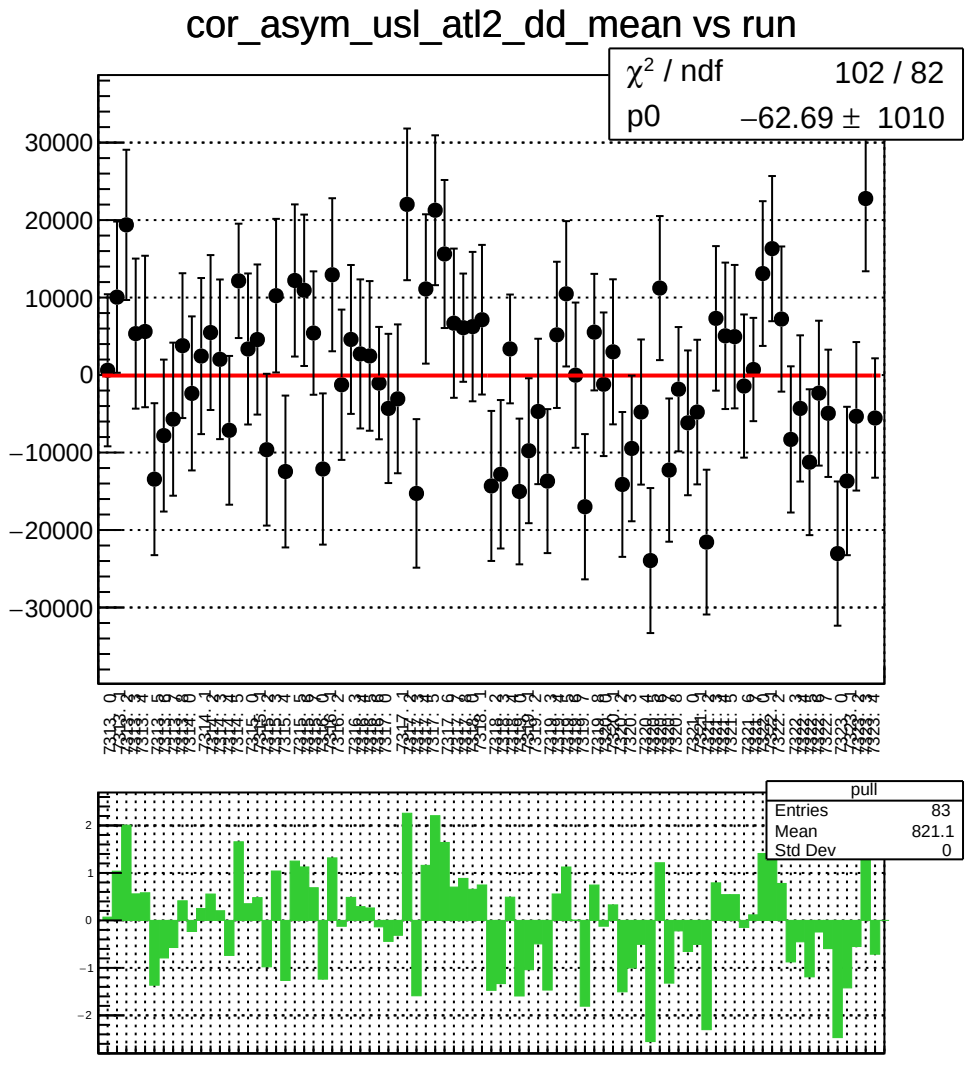

pull1D
Entries 83
Mean −0.00725
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

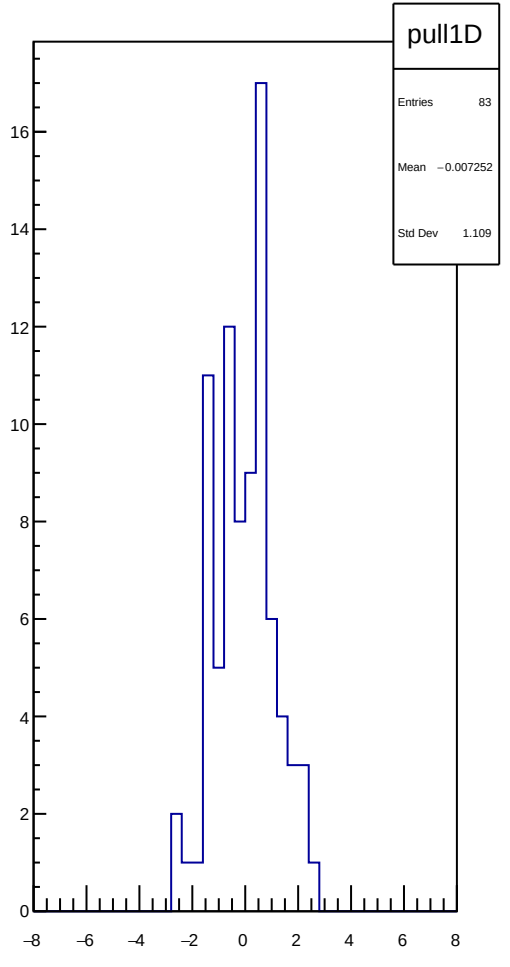

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 926.4 / 82
p0 906.3 ± 0.7142
980
960
940
920
900
880
860

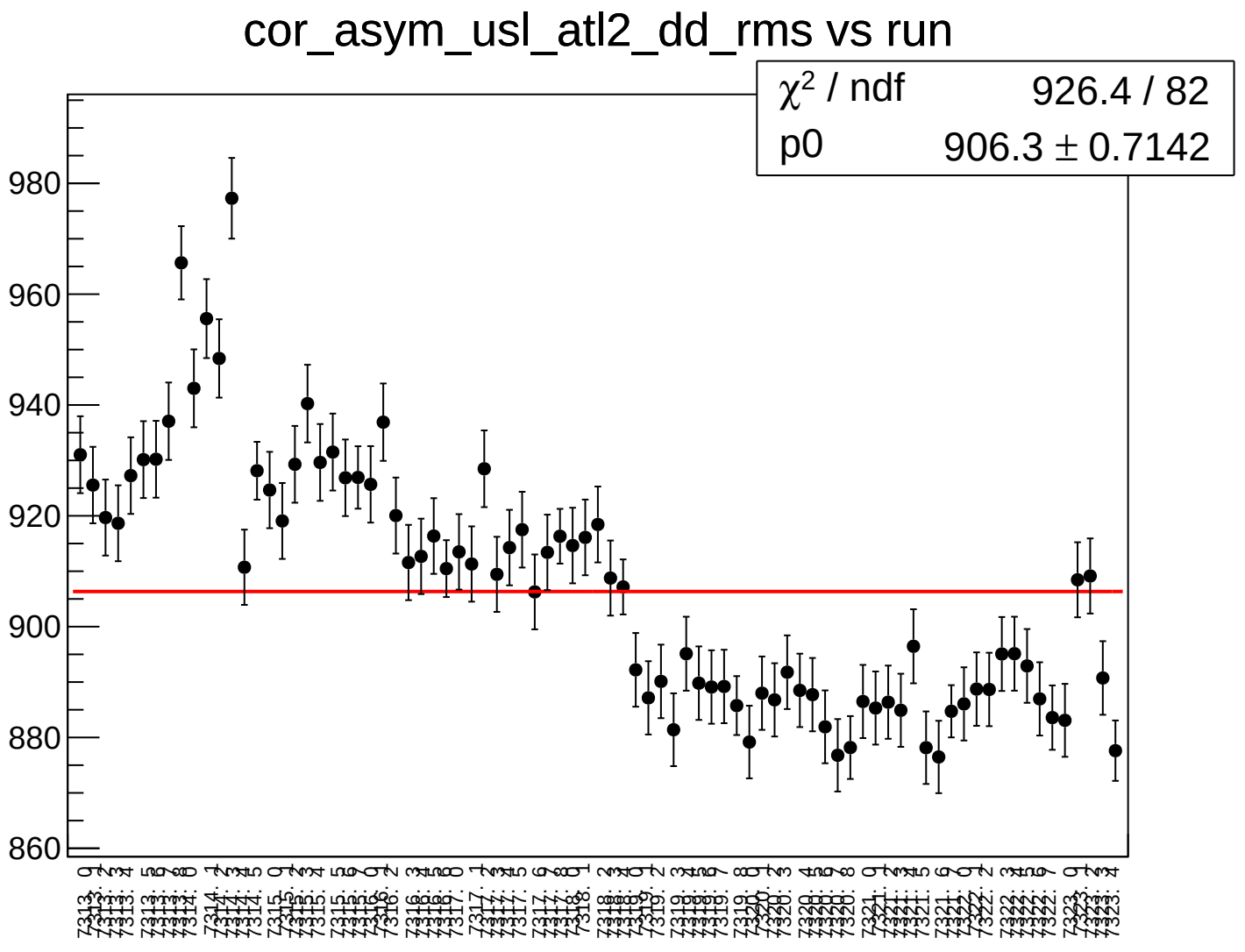

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 83.96 / 82
p0 −6430 ± 5434
×10³
pull
Entries 83
Mean 2063
Std Dev 0

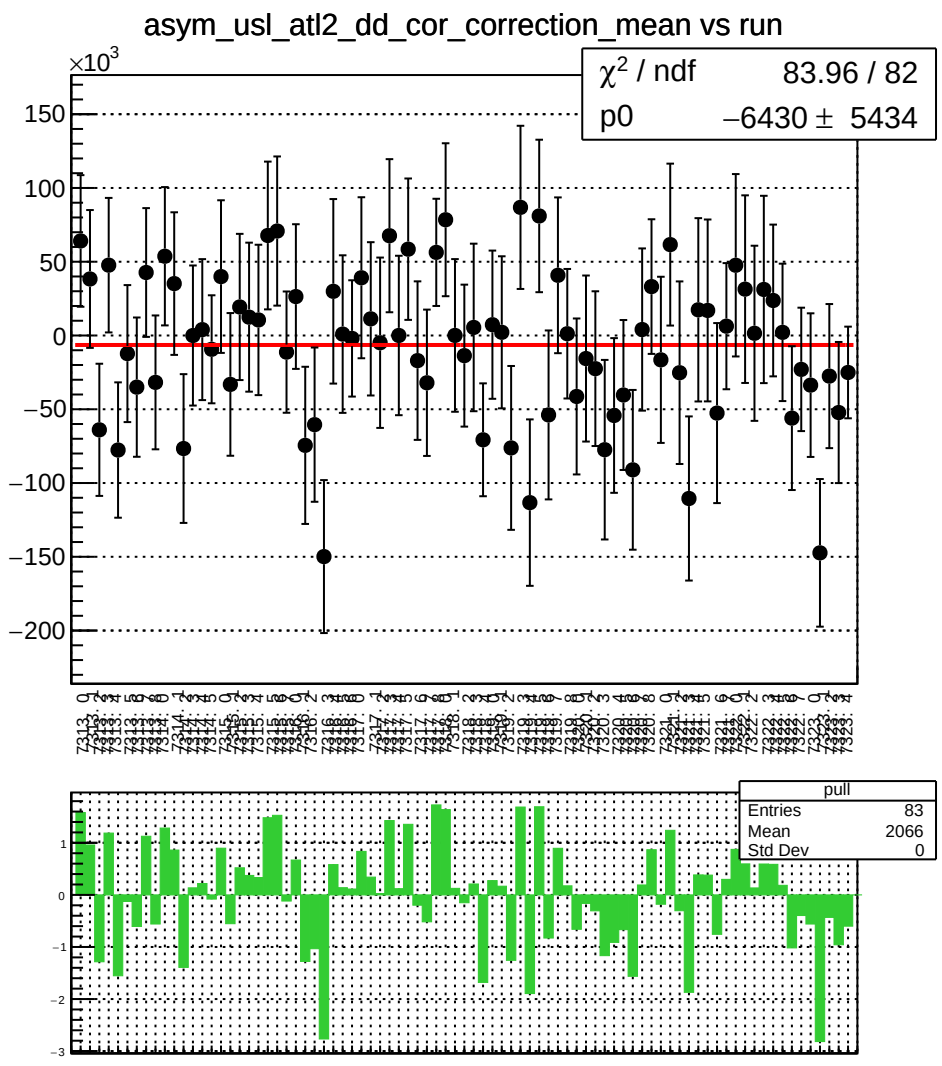

pull1D
Entries 83
Mean −0.002347
Std Dev 1.006

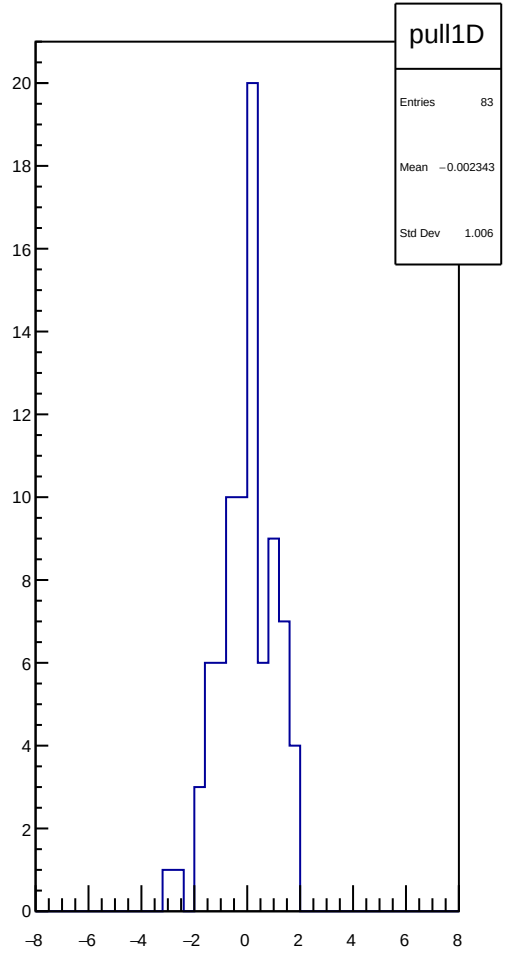

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.546e+04 / 82
p0 4854 ± 3.842
6000
5500
5000
4500
4000
3500

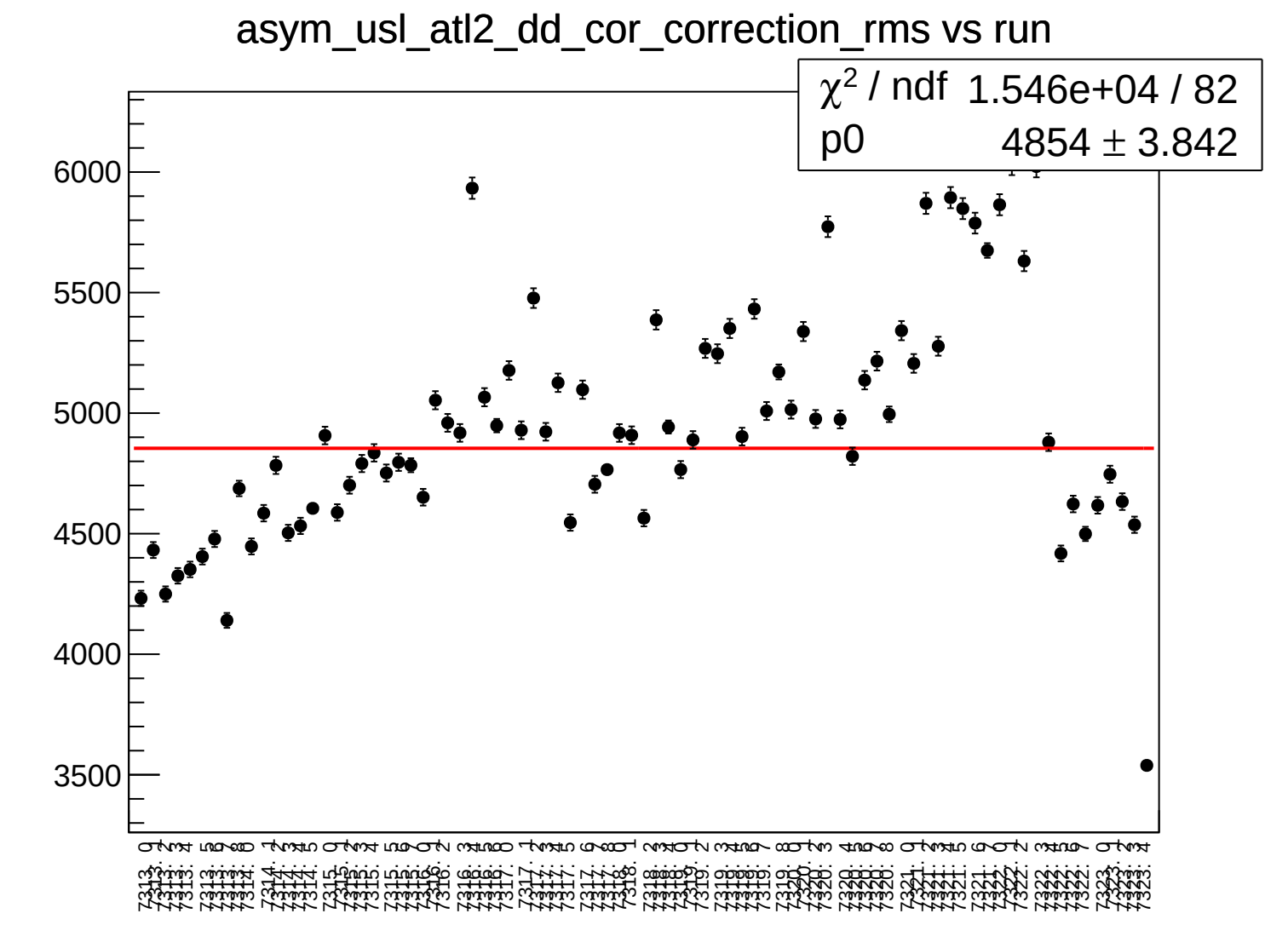

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 102 / 82
p0 −62.69 ± 1010
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 821.1
Std Dev 0
2
1
0
−1
−2

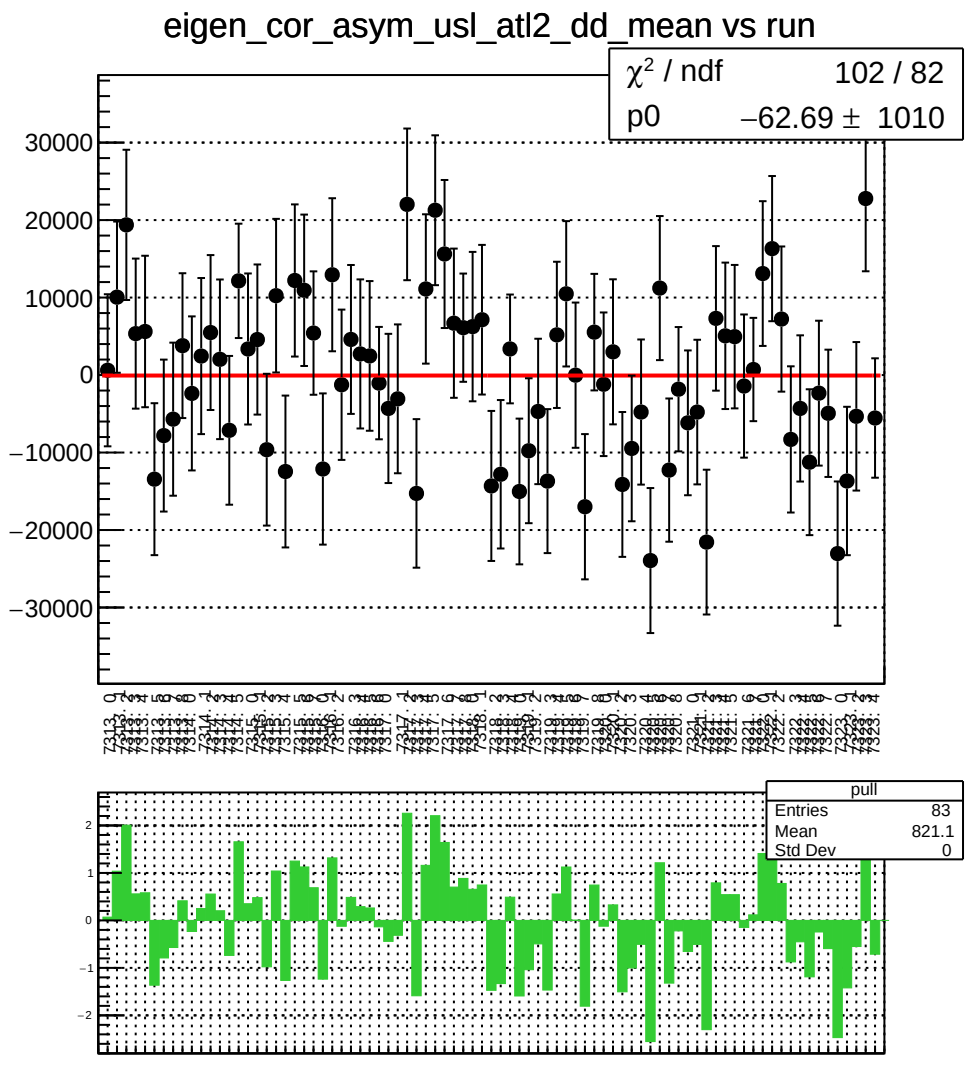

pull1D
Entries 83
Mean −0.007252
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

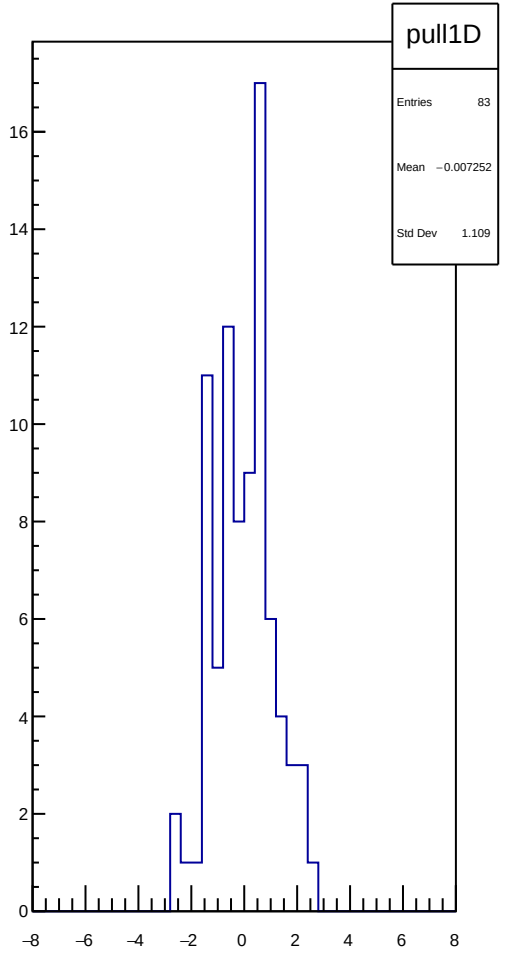

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 926.4 / 82
p0 906.3 ± 0.7142
980
960
940
920
900
880
860

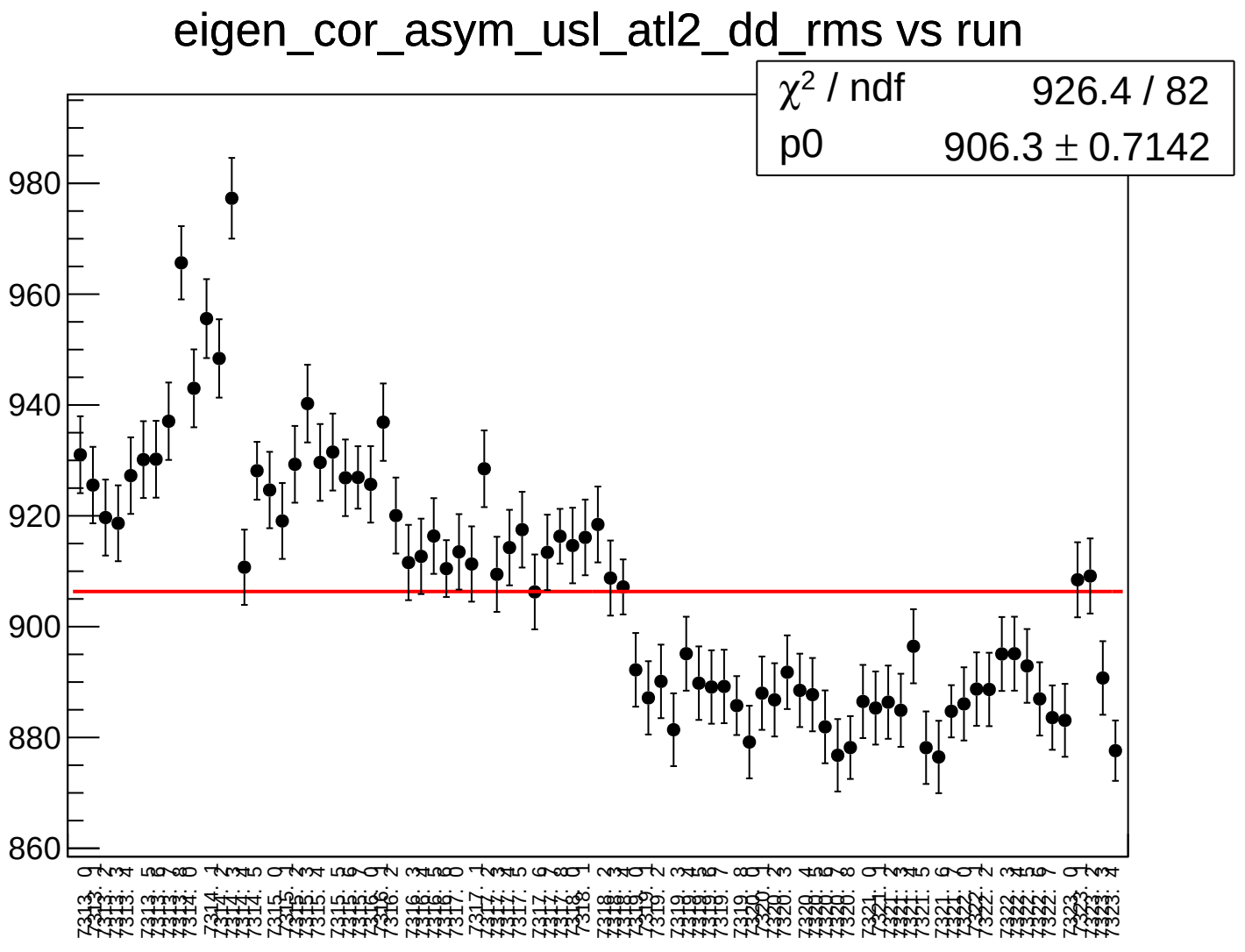

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.96 / 82
p0 −6430 ± 5434
150
100
50
0
−50
−100
−150
−200
pull
Entries 83
Mean 2066
Std Dev 0
1
0
−1
−2
−3

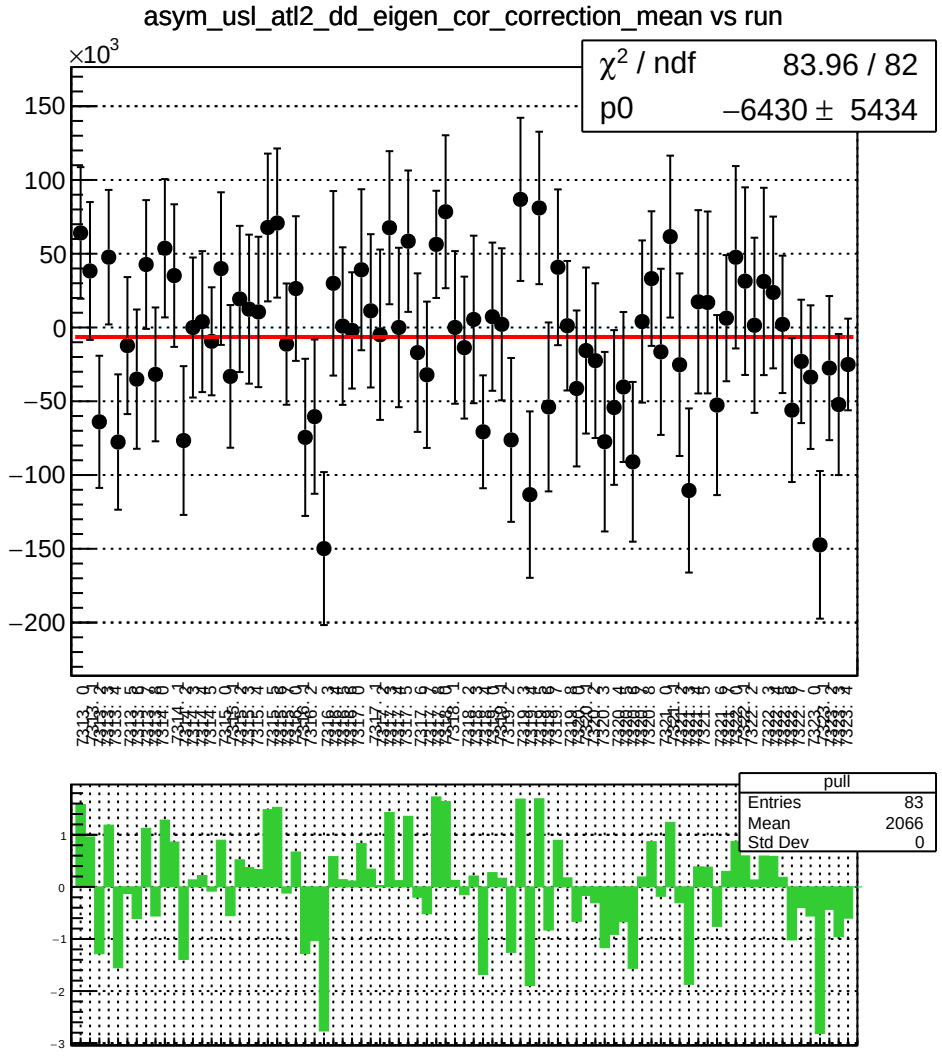

pull1D
Entries 83
Mean −0.002343
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

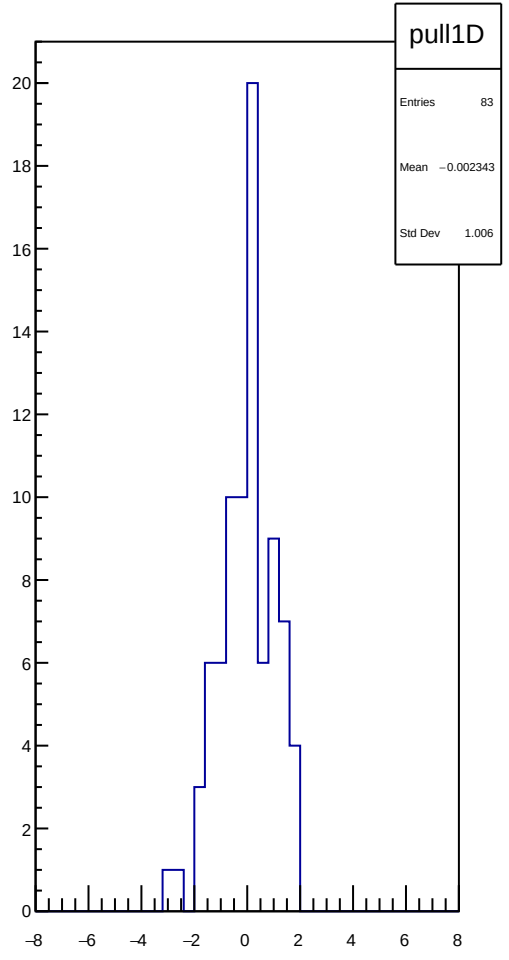

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 82
p0 4854 ± 3.842
6000
5500
5000
4500
4000
3500

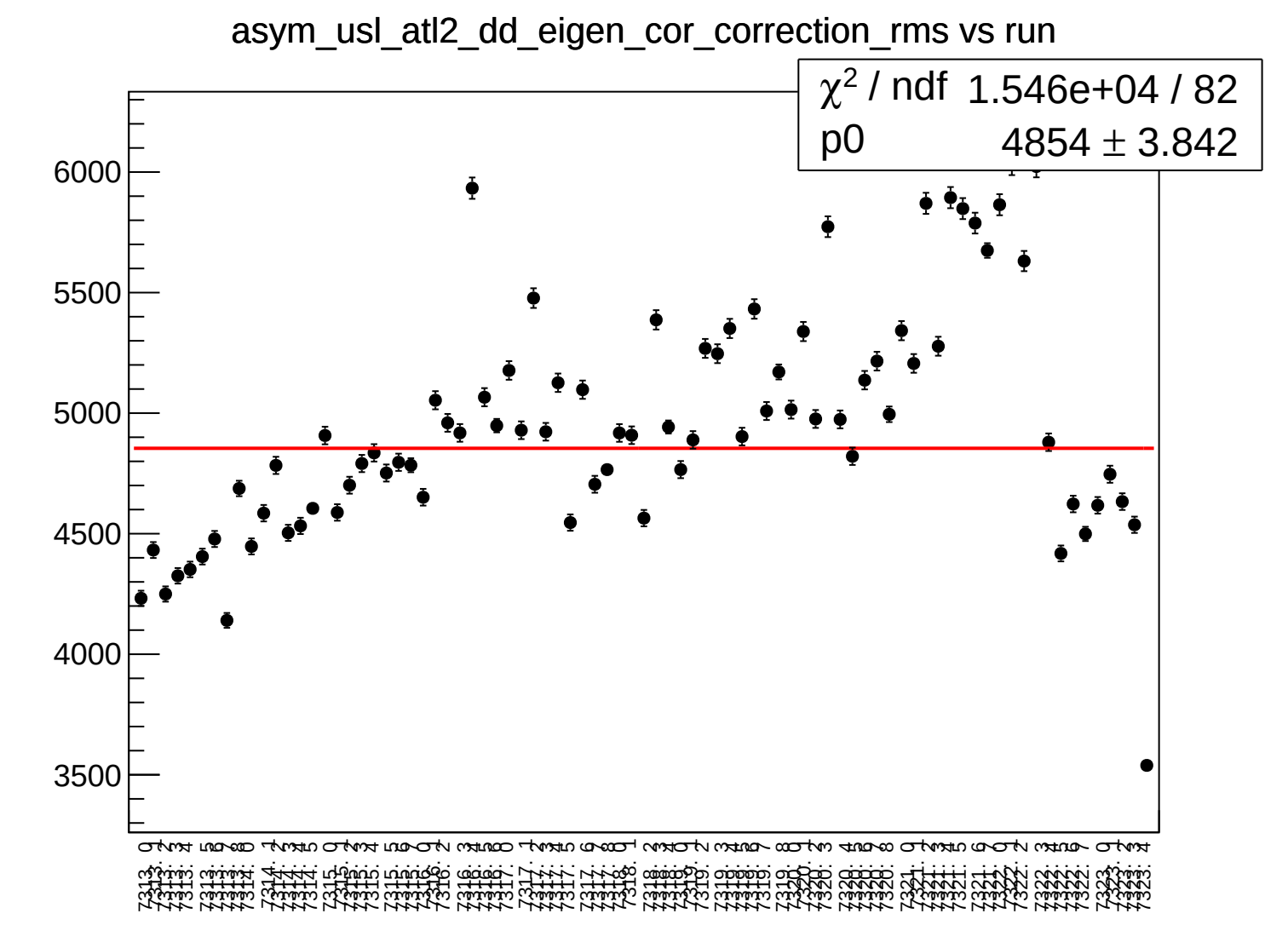

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 102 / 82
p0 −62.69 ± 1010
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 821.1
Std Dev 0
2
1
0
−1
−2

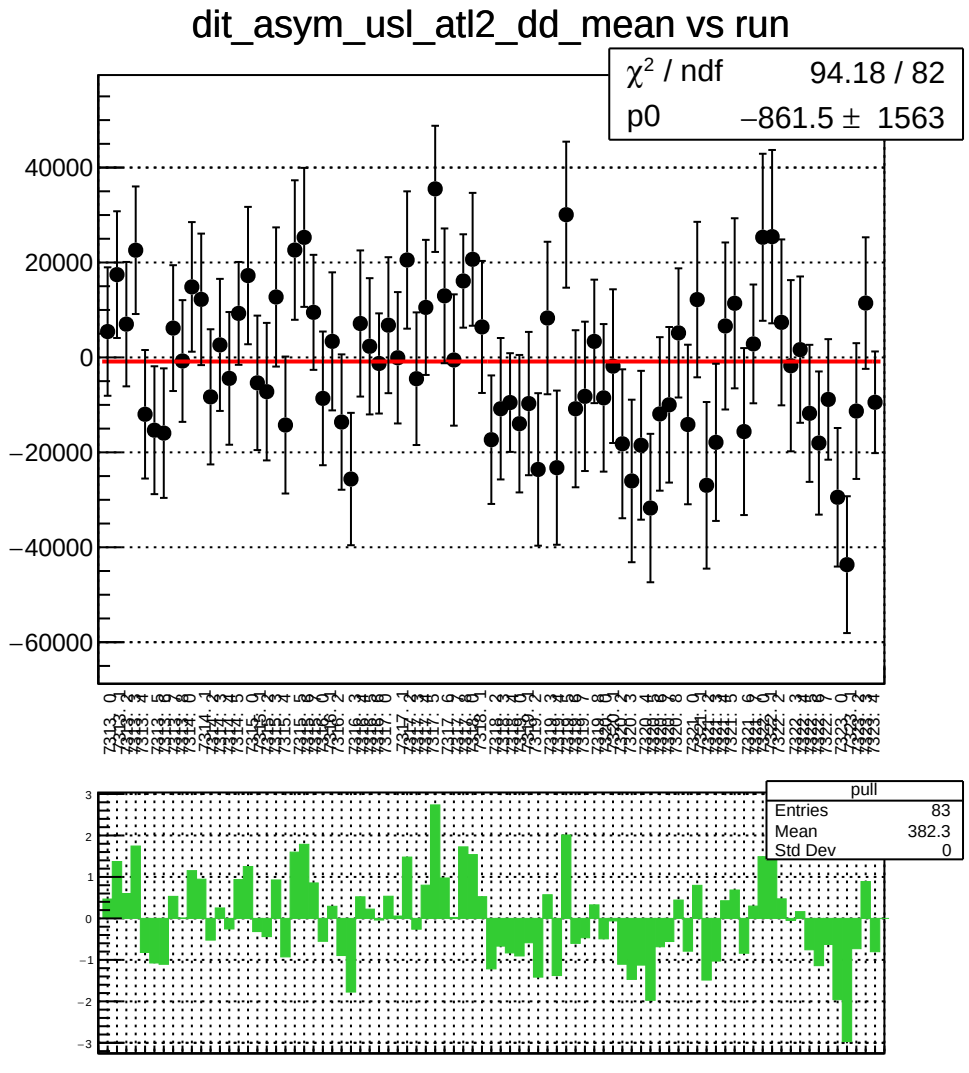

pull1D
Entries 83
Mean −0.007252
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

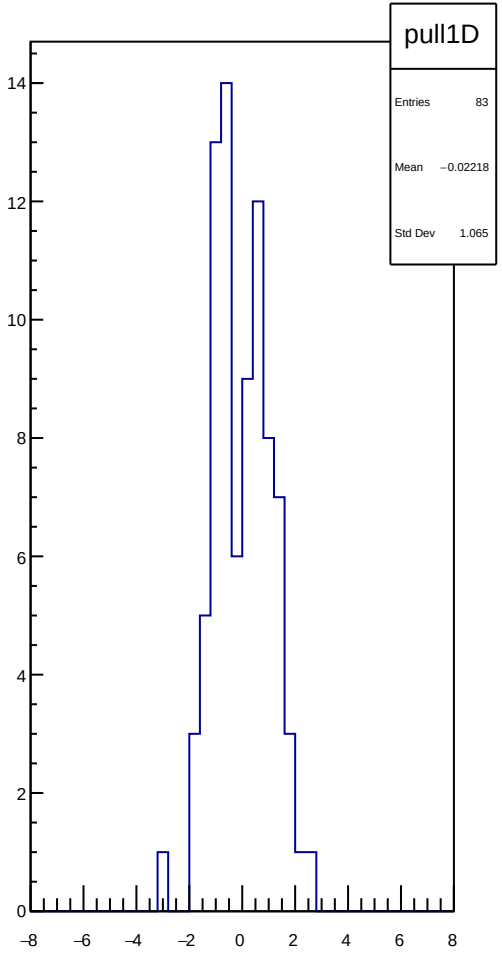

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 926.4 / 82
p0 906.3 ± 0.7142
980
960
940
920
900
880
860

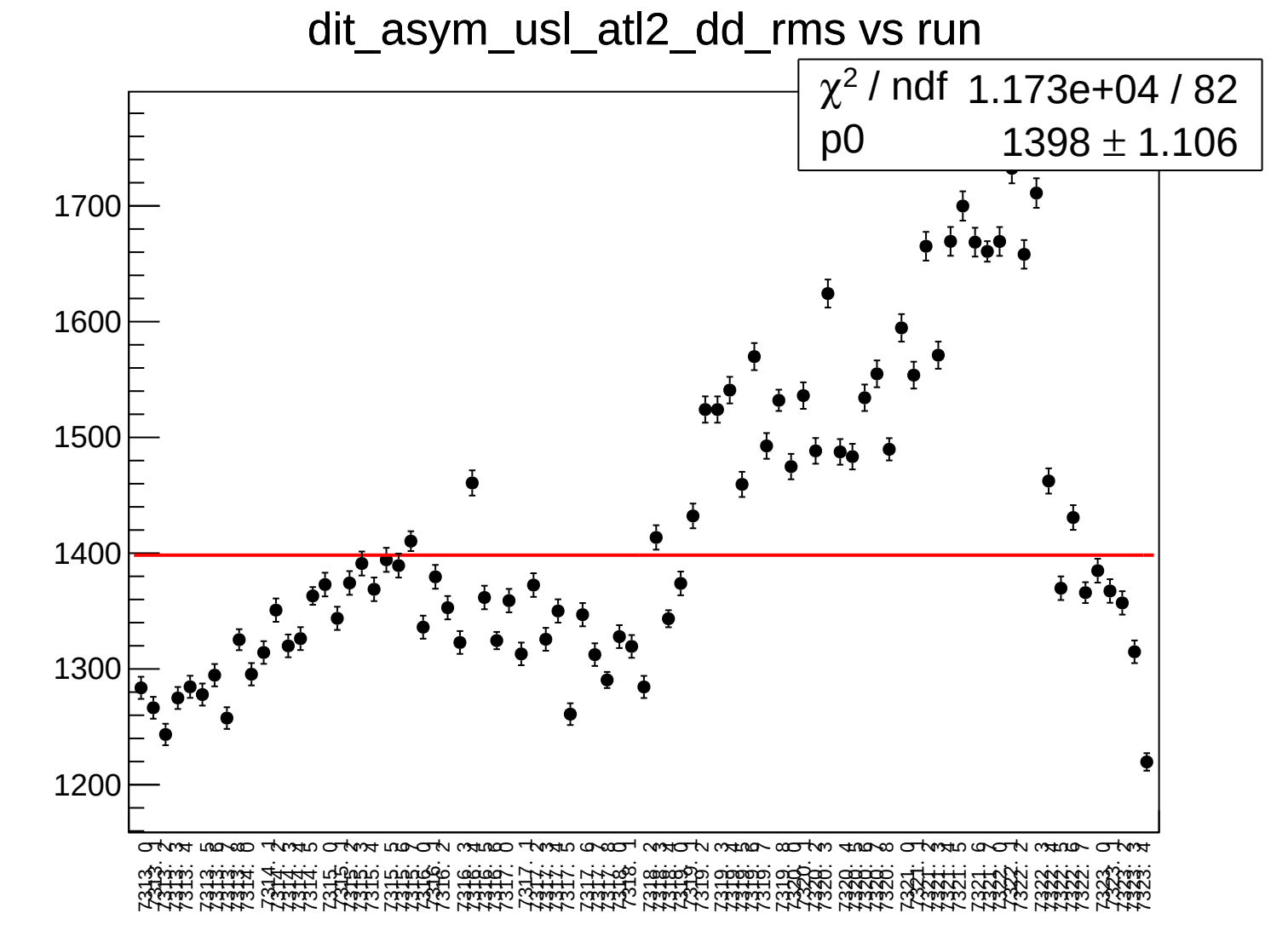

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.96 / 82
p0 −6430 ± 5434
150
100
50
0
−50
−100
−150
−200
pull
Entries 83
Mean 2066
Std Dev 0
1
0
−1
−2
−3

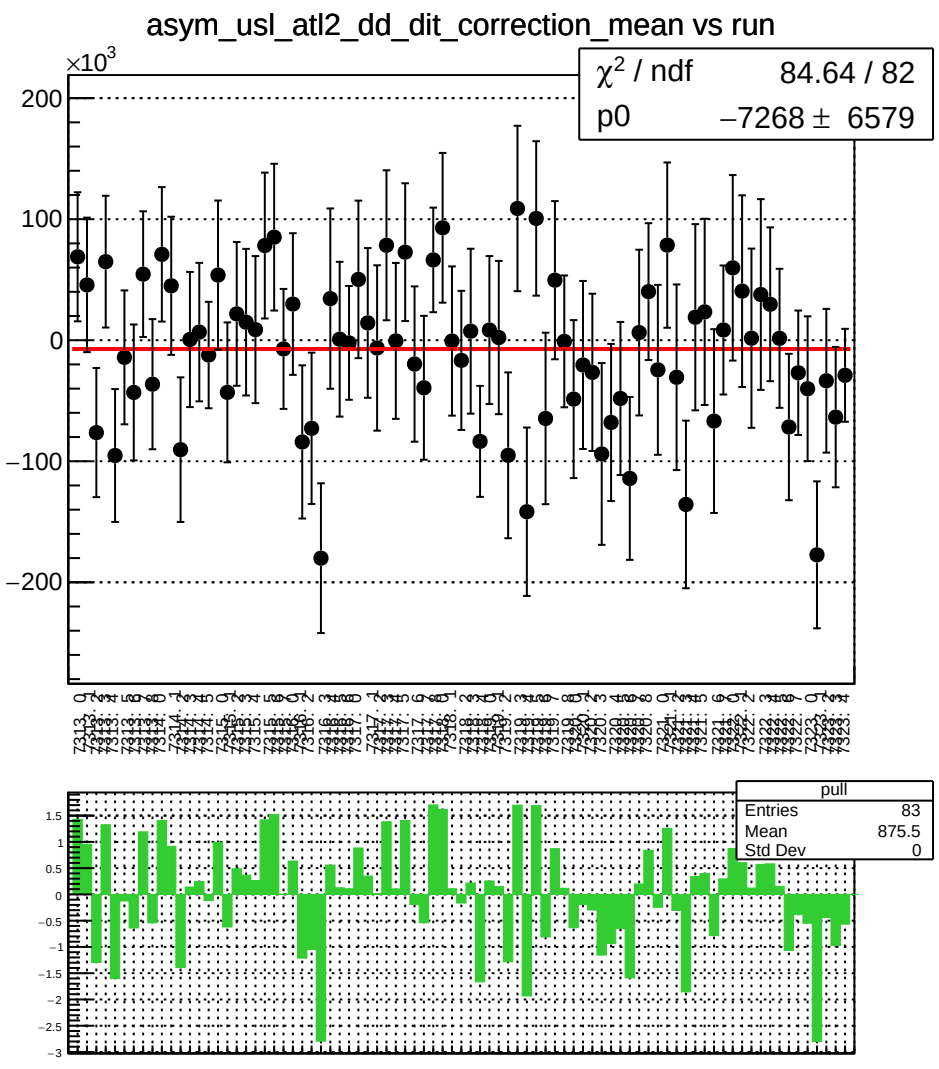

pull1D
Entries 83
Mean −0.002343
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

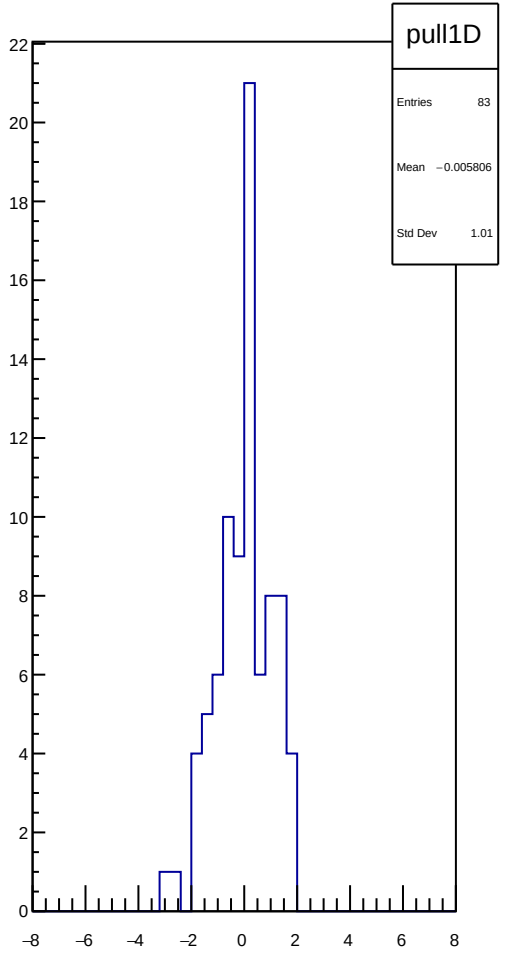

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 82
p0 4854 ± 3.842
6000
5500
5000
4500
4000
3500

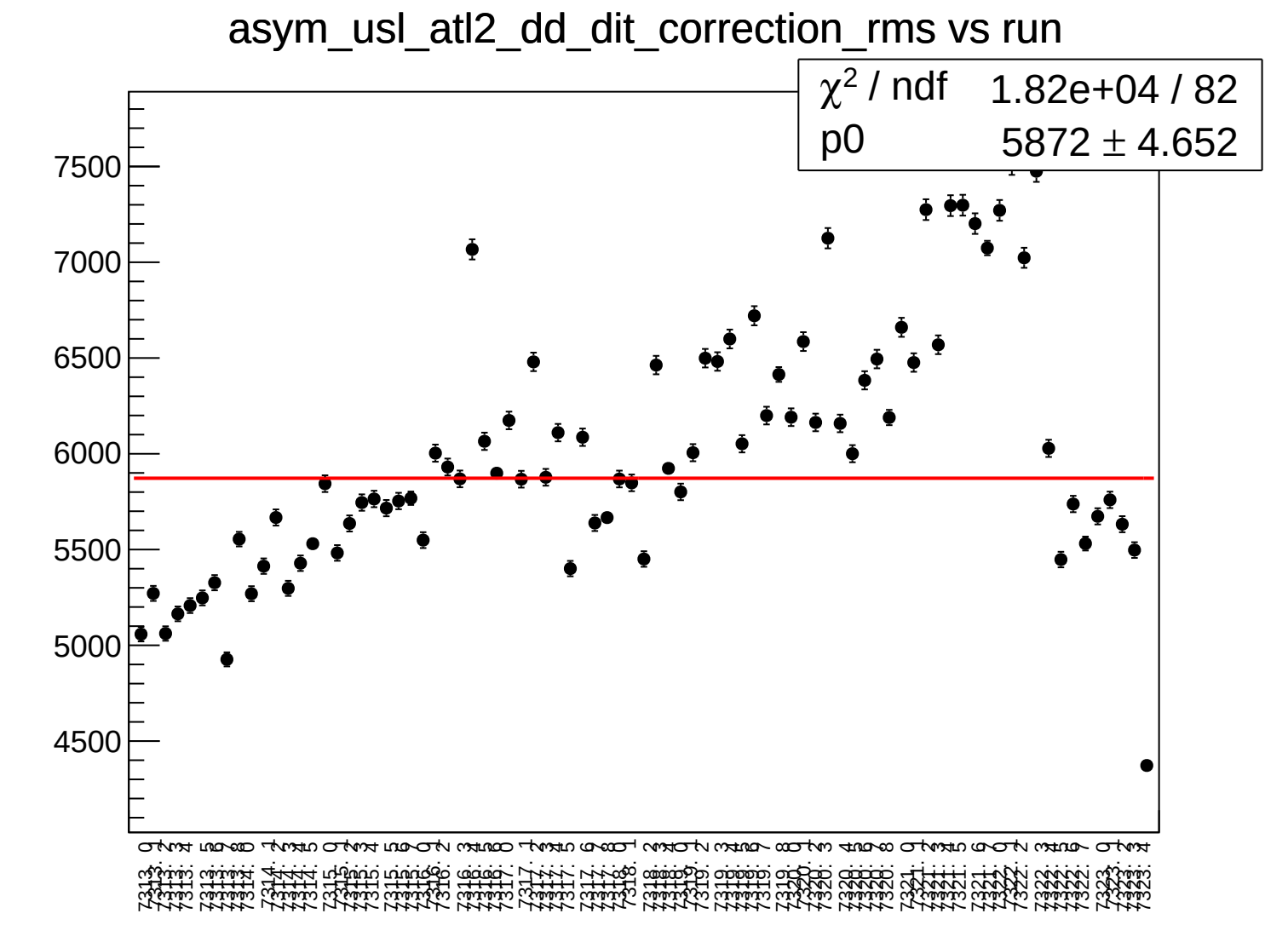

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.18 / 82
p0 −861.5 ± 1563
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 382.3
Std Dev 0
3
2
1
0
−1
−2
−3

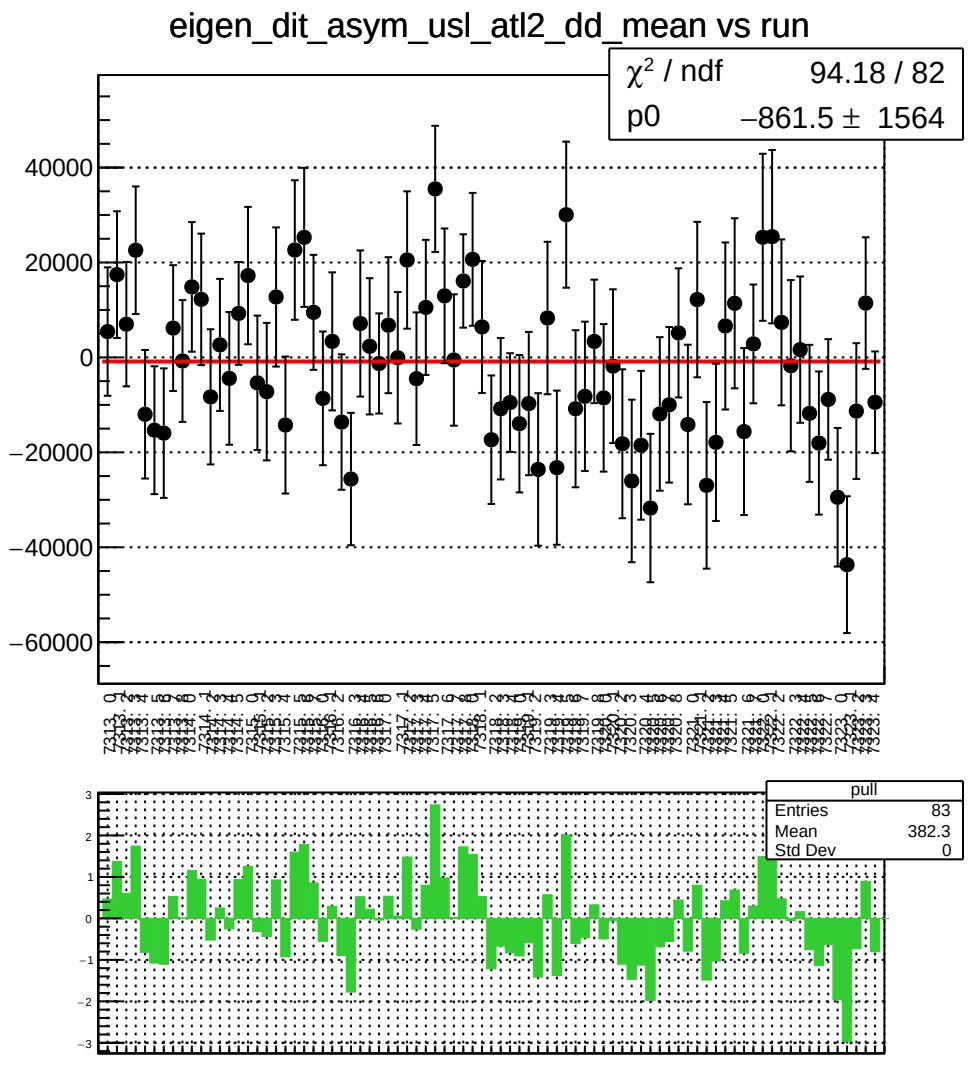

pull1D
Entries 83
Mean −0.02218
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

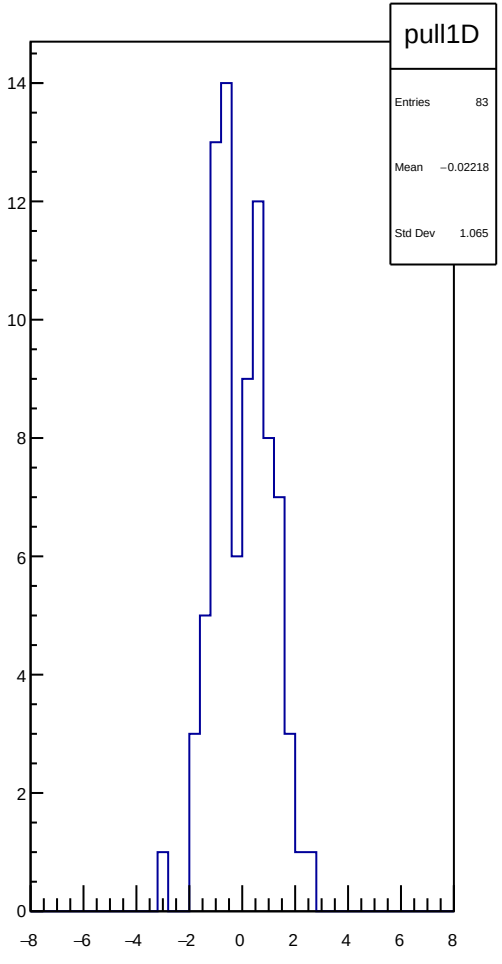

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.173e+04 / 82
p0 1398 ± 1.106
1700
1600
1500
1400
1300
1200

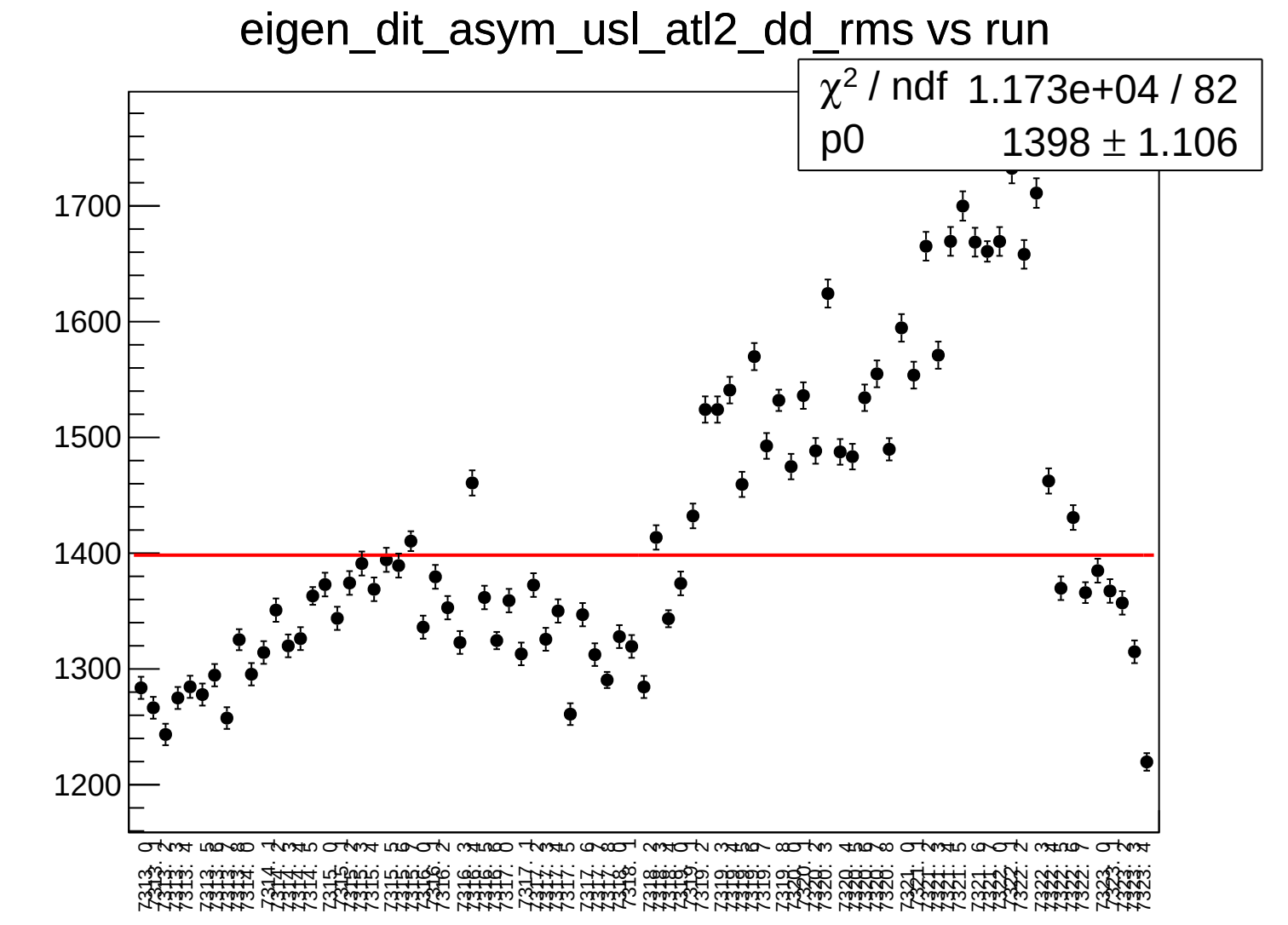

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.64 / 82
p0 −7268 ± 6579
200
100
0
−100
−200
pull
Entries 83
Mean 875.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

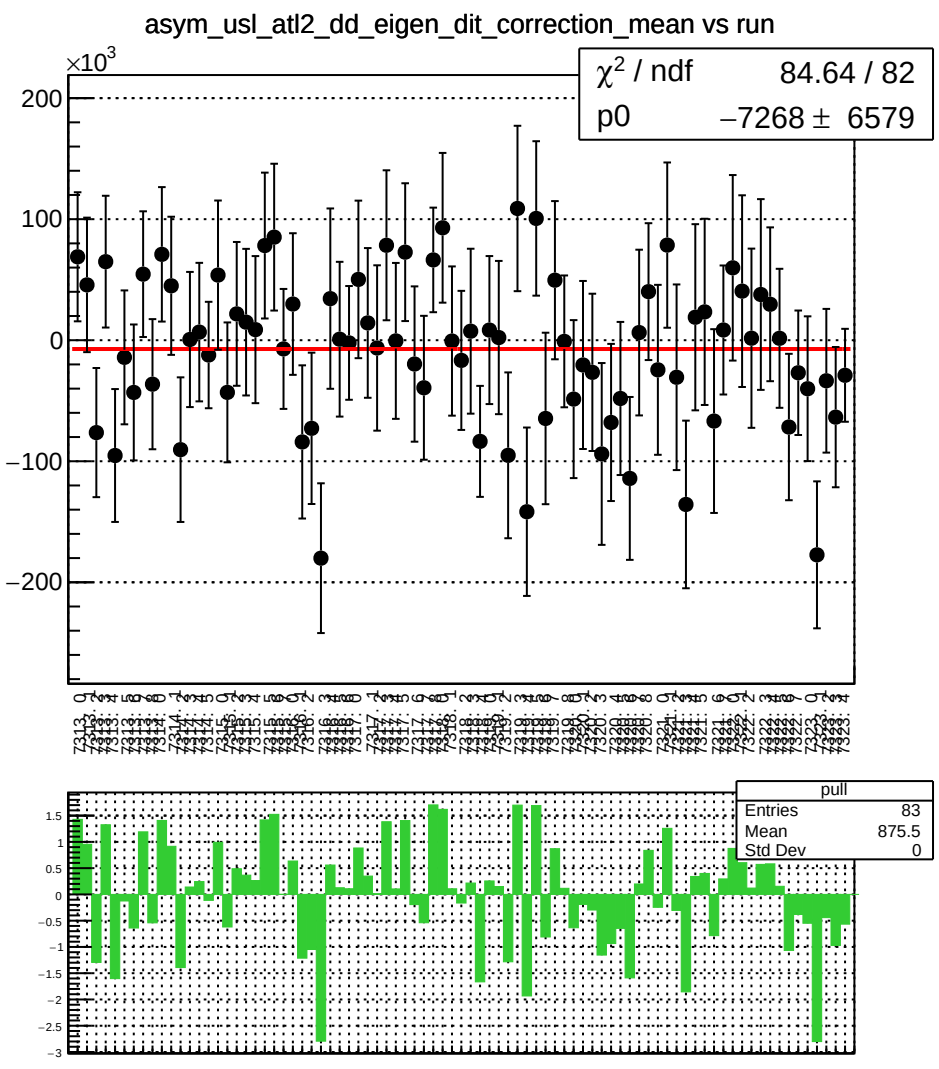

pull1D
Entries 83
Mean −0.005806
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

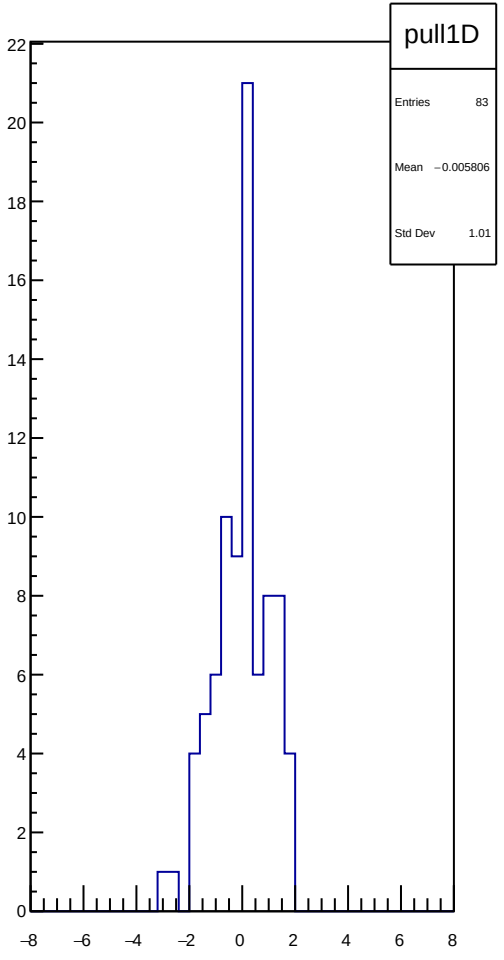

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 5872 ± 4.652
7500
7000
6500
6000
5500
5000
4500

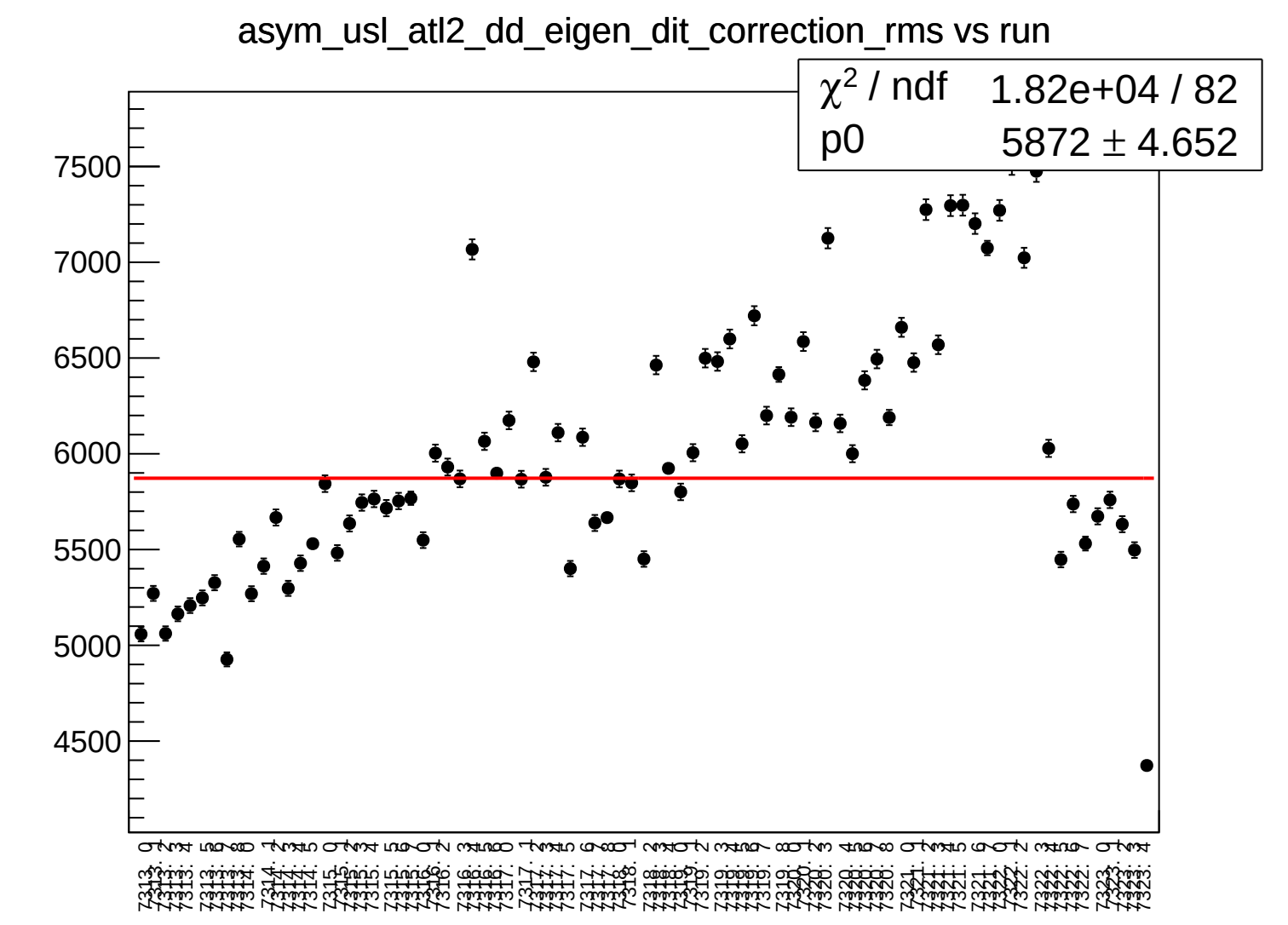

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.18 / 82
p0 −861.5 ± 1564
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 382.3
Std Dev 0
3
2
1
0
−1
−2
−3

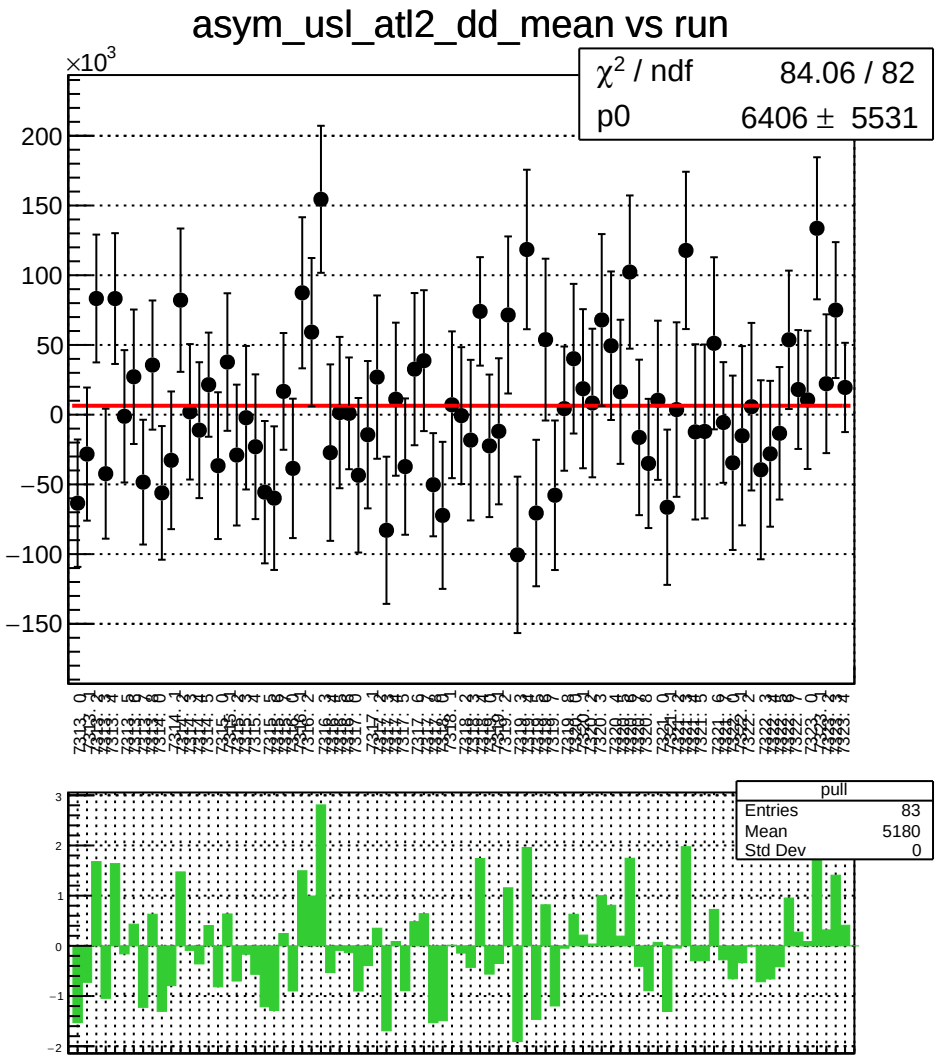

pull1D
Entries 83
Mean −0.02218
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

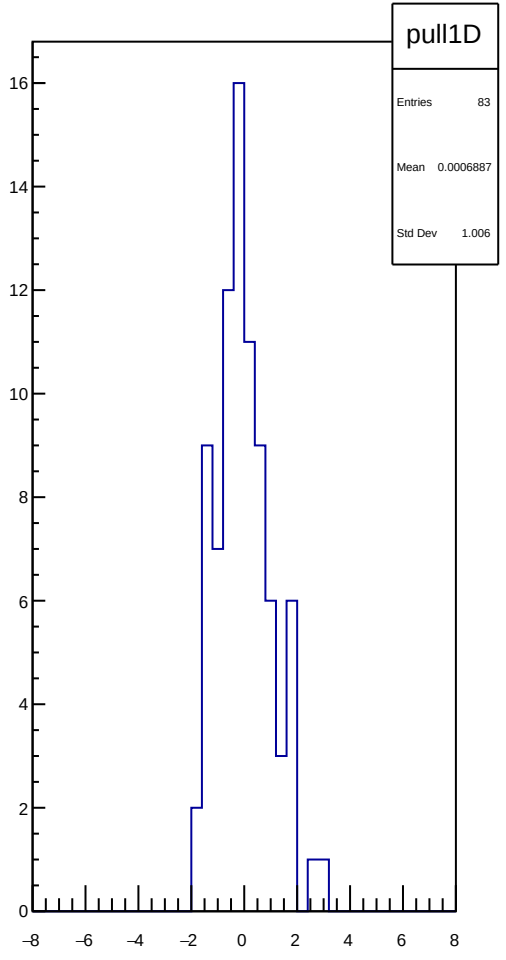

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.173e+04 / 82
p0 1398 ± 1.106
1700
1600
1500
1400
1300
1200

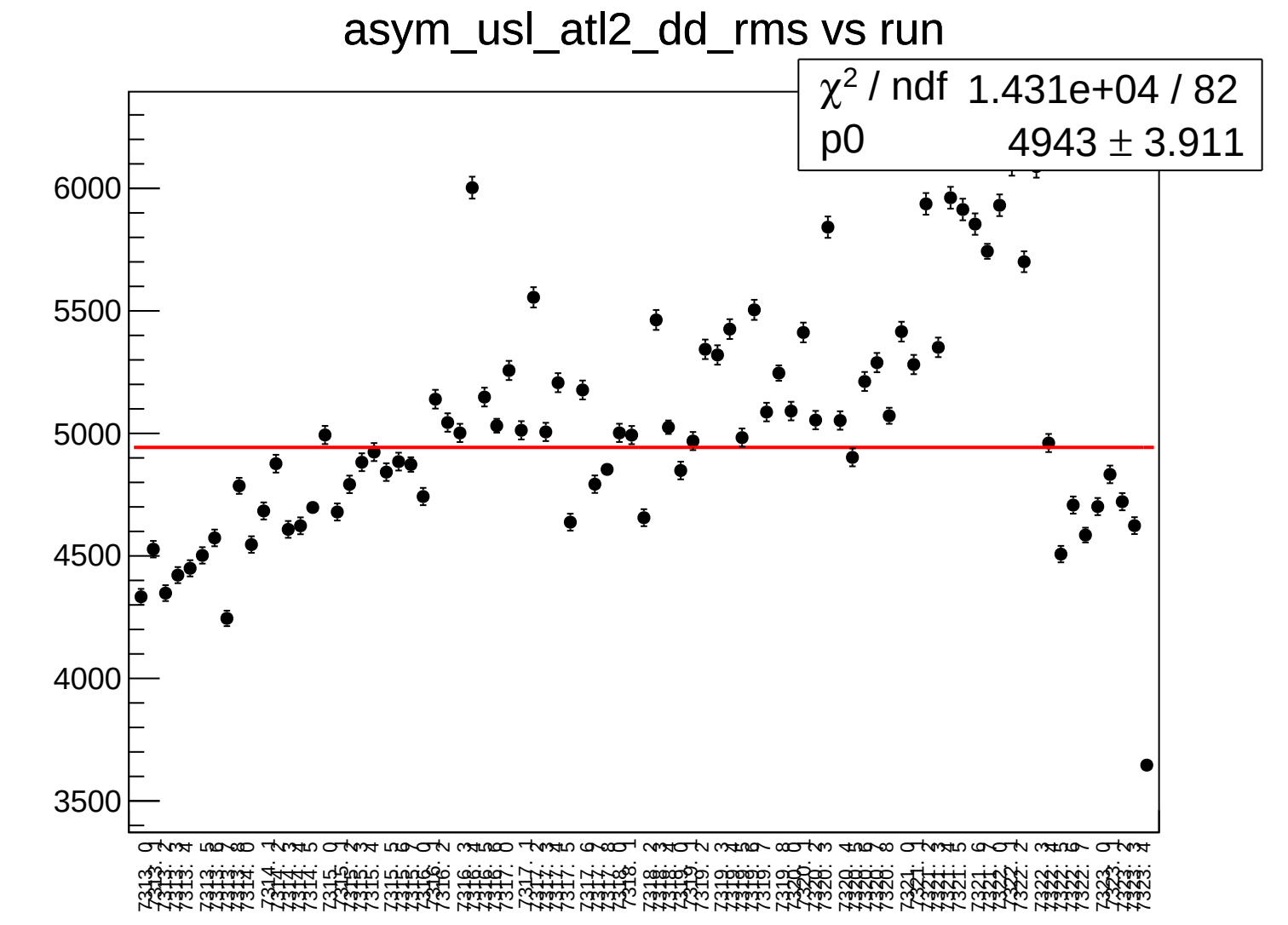

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.64 / 82
p0 −7268 ± 6579
pull
Entries 83
Mean 875.5
Std Dev 0

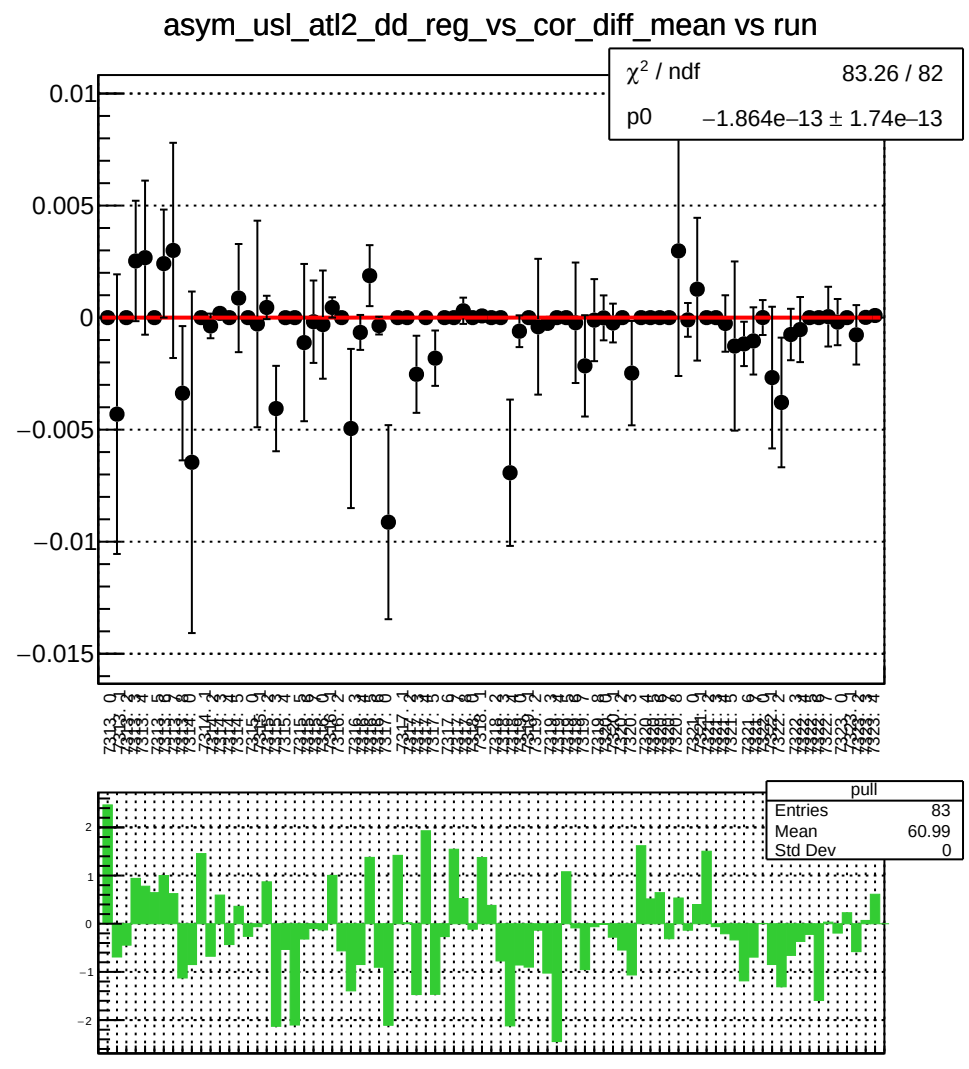

pull1D
Entries 83
Mean −0.005806
Std Dev 1.01

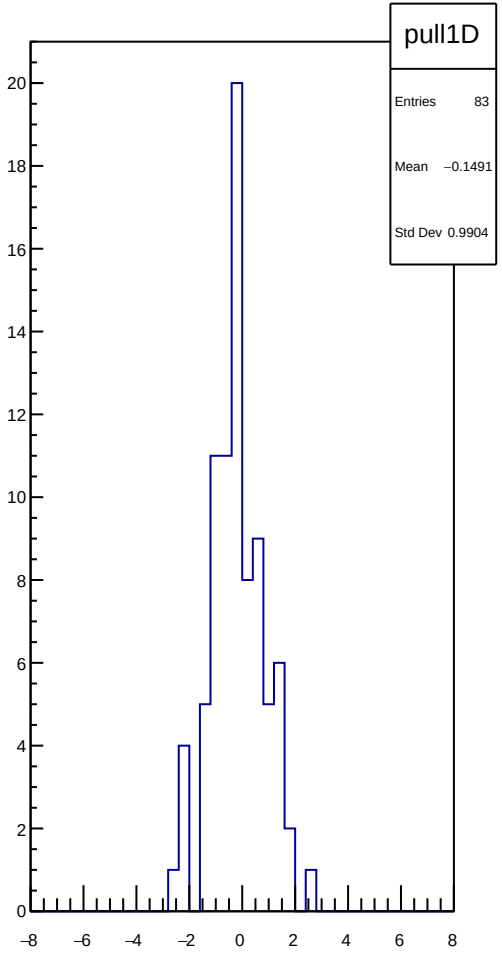

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 5872 ± 4.652
7500
7000
6500
6000
5500
5000
4500

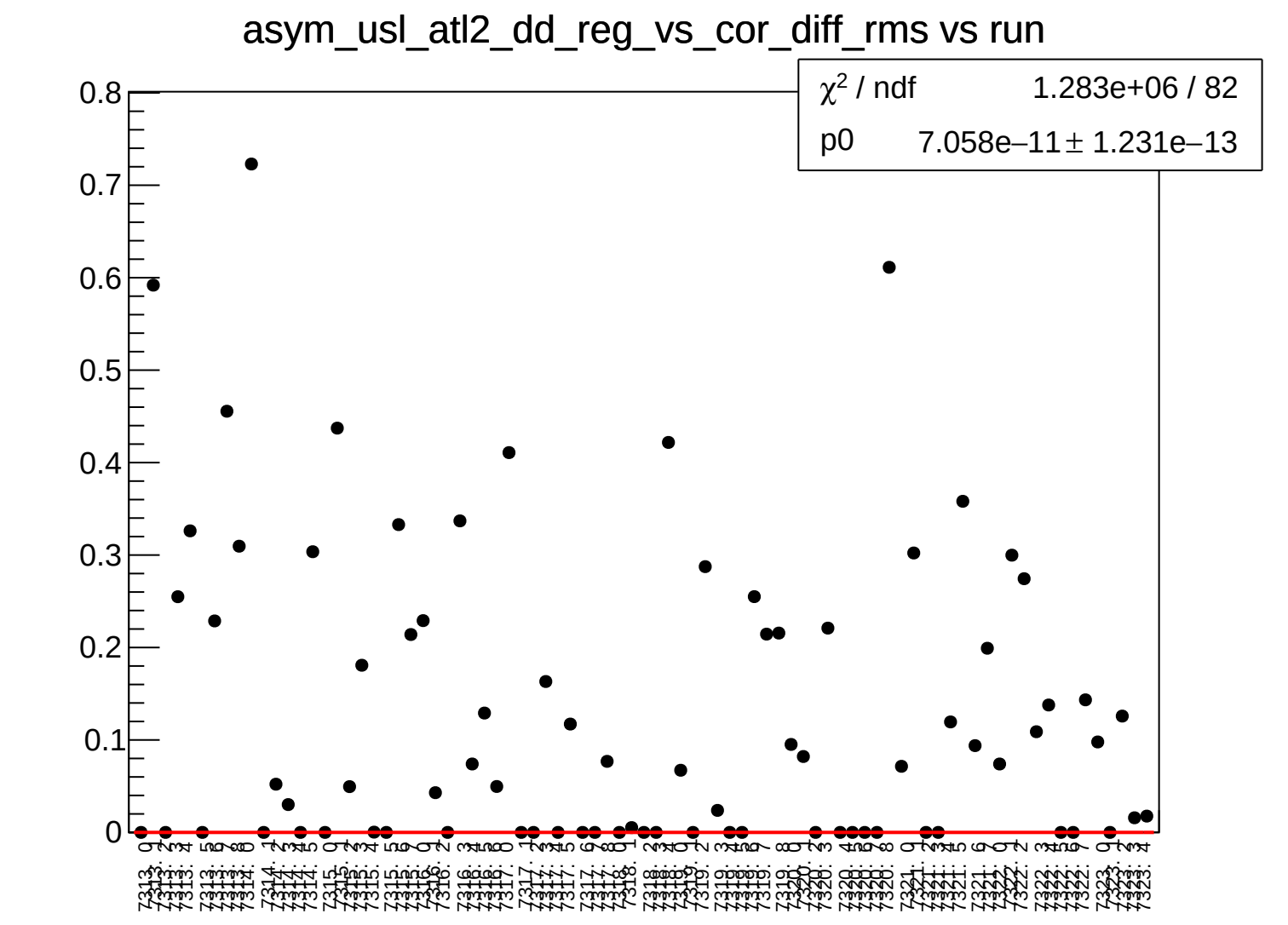

asym_usl_atl2_dd_mean vs run
χ² / ndf 84.06 / 82
p0 6406 ± 5531
pull
Entries 83
Mean 5180
Std Dev 0

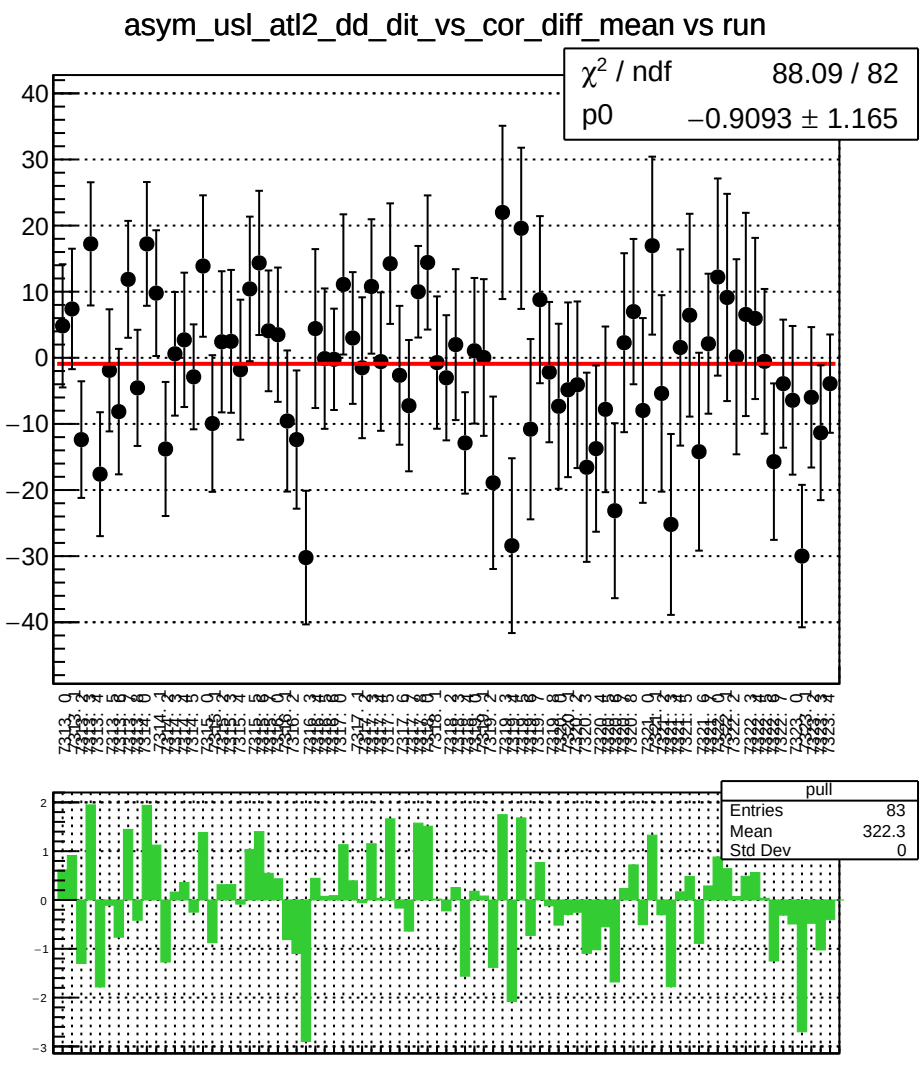

pull1D
Entries 83
Mean 0.0006887
Std Dev 1.006

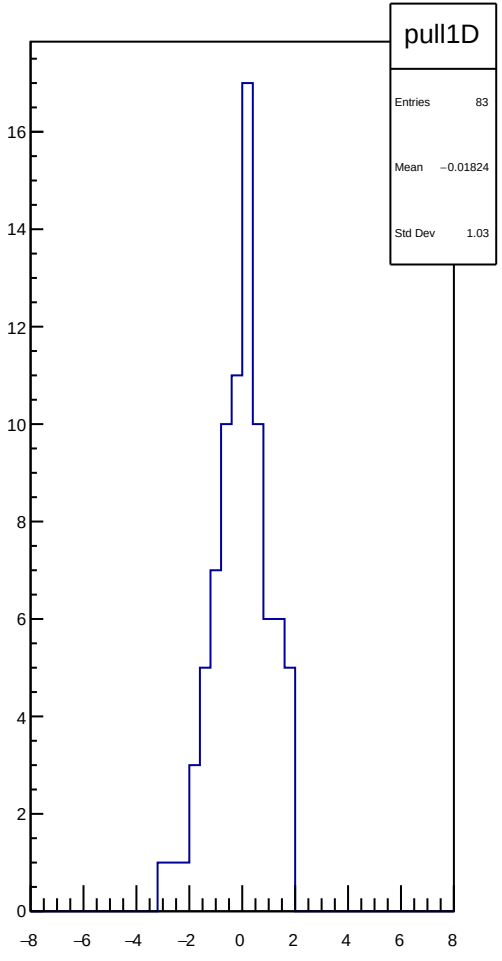

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.431e+04 / 82
p0 4943 ± 3.911
6000
5500
5000
4500
4000
3500

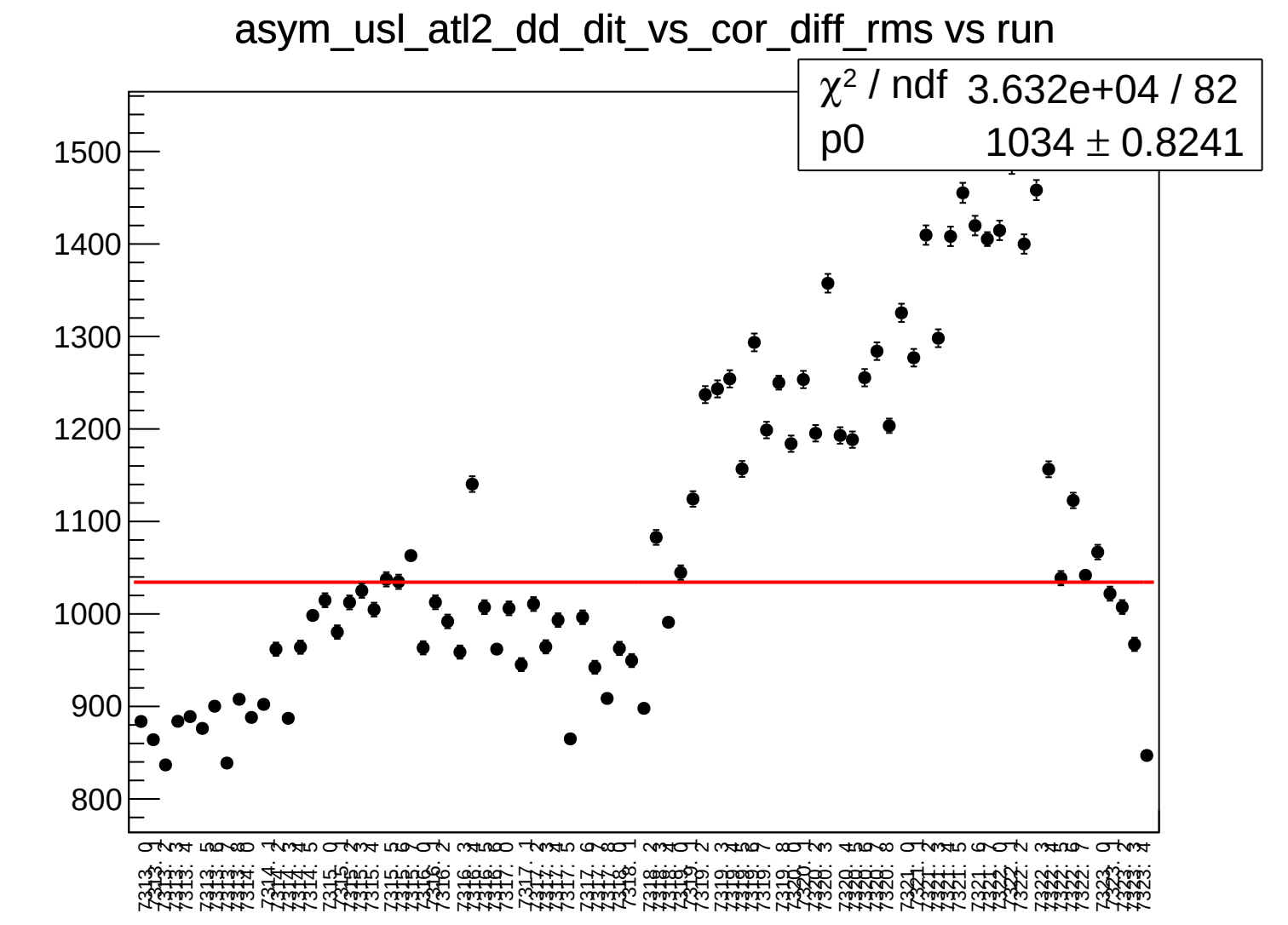

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.26 / 82
p0 −1.864e−13 ± 1.74e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 83
Mean 60.99
Std Dev 0
2
1
0
−1
−2

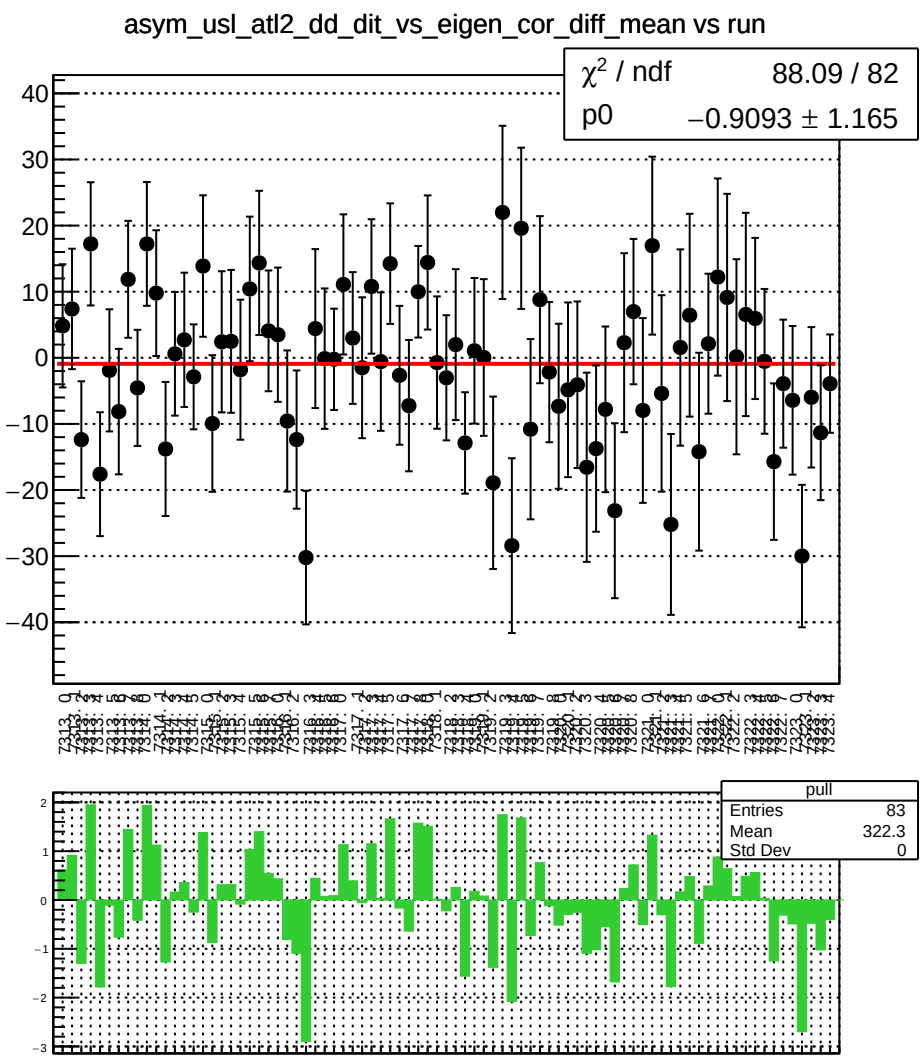

pull1D
Entries 83
Mean −0.1491
Std Dev 0.9904
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

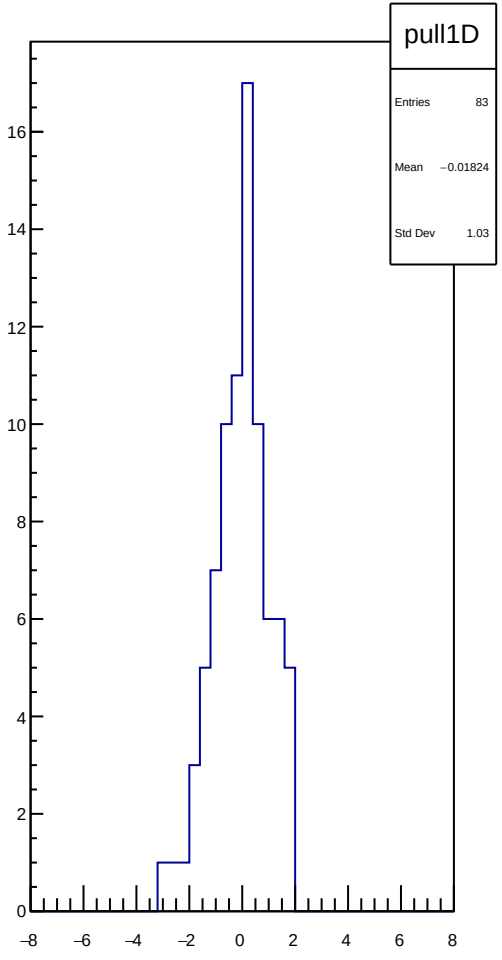

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.283e+06 / 82
p0 7.058e−11 ± 1.231e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

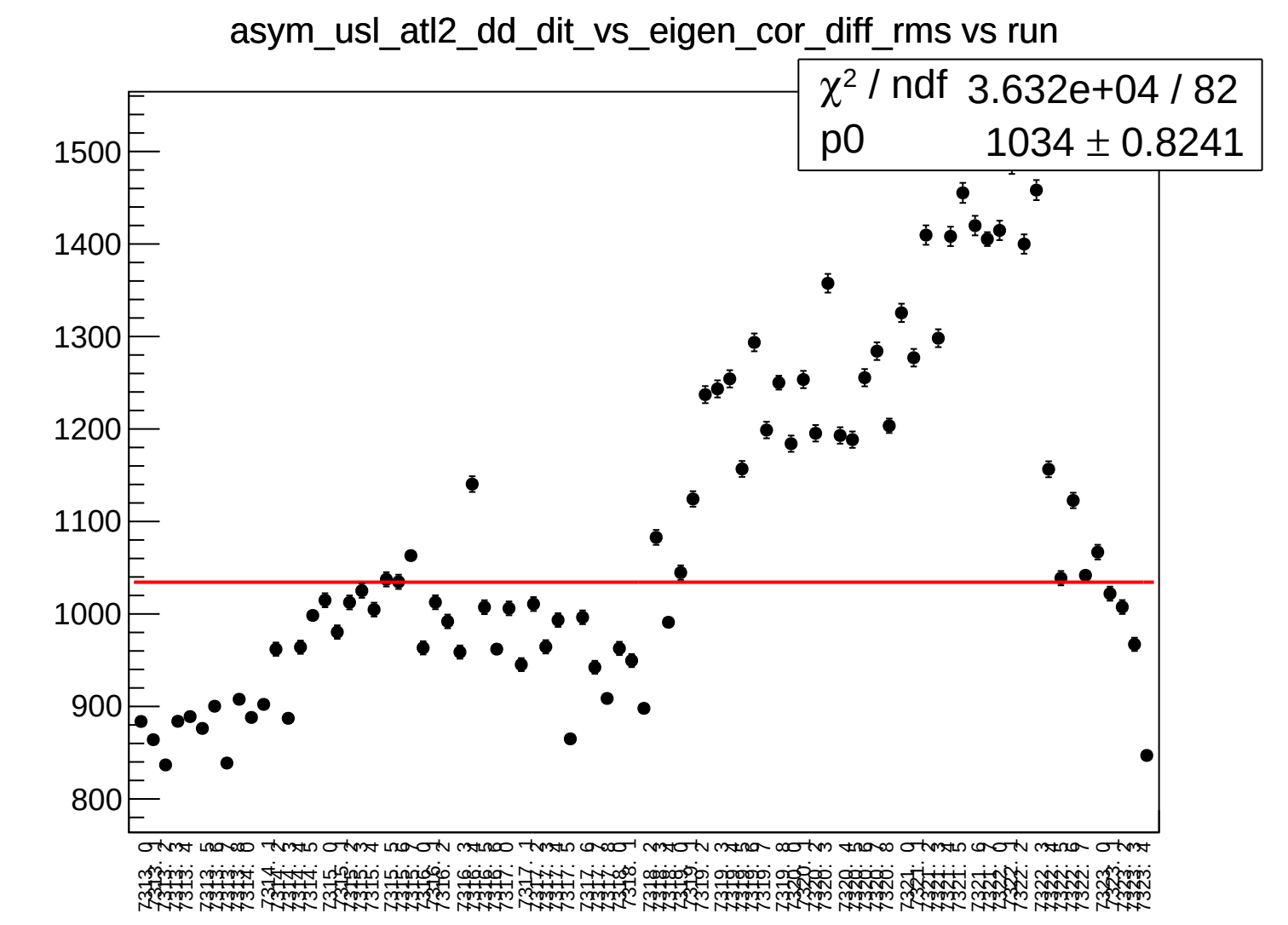

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 82
p0 −0.9093 ± 1.165
pull
Entries 83
Mean 322.3
Std Dev 0

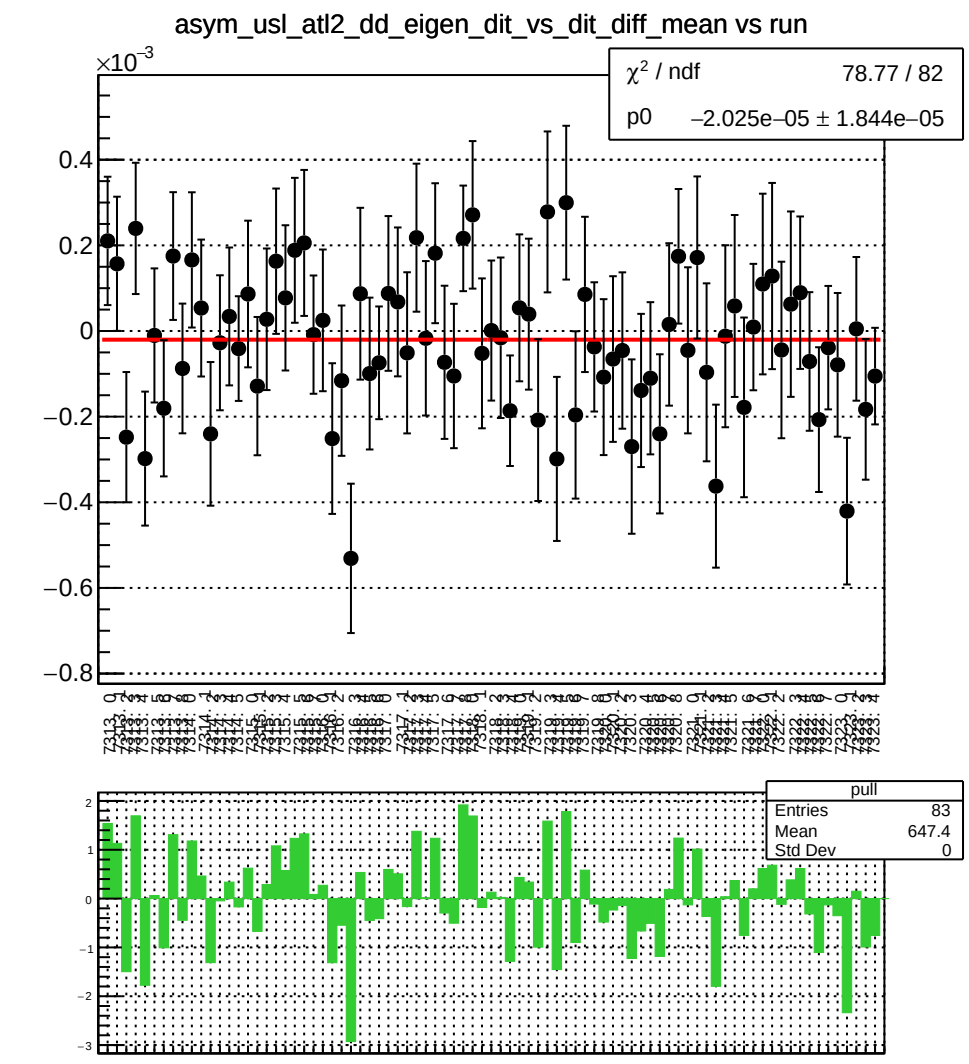

pull1D
Entries 83
Mean −0.01824
Std Dev 1.03

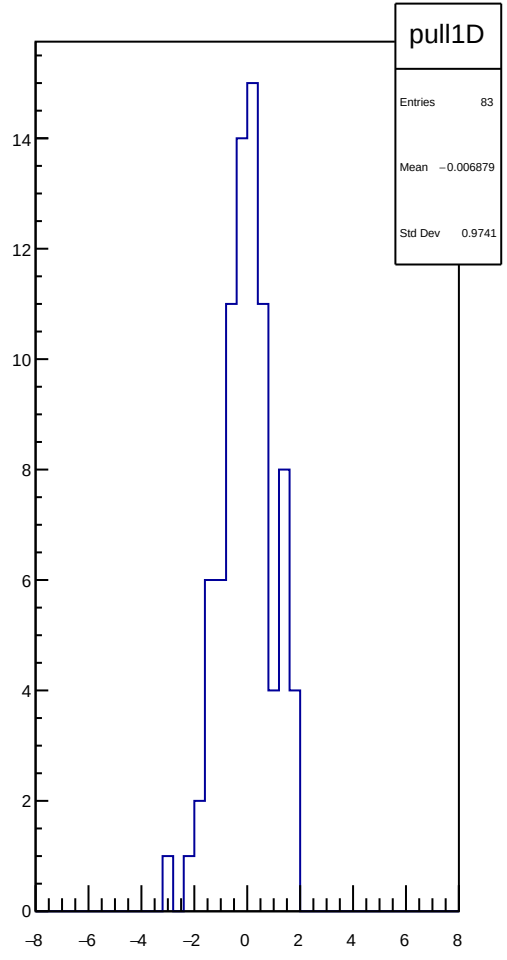

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.632e+04 / 82
p0 1034 ± 0.8241
1500
1400
1300
1200
1100
1000
900
800

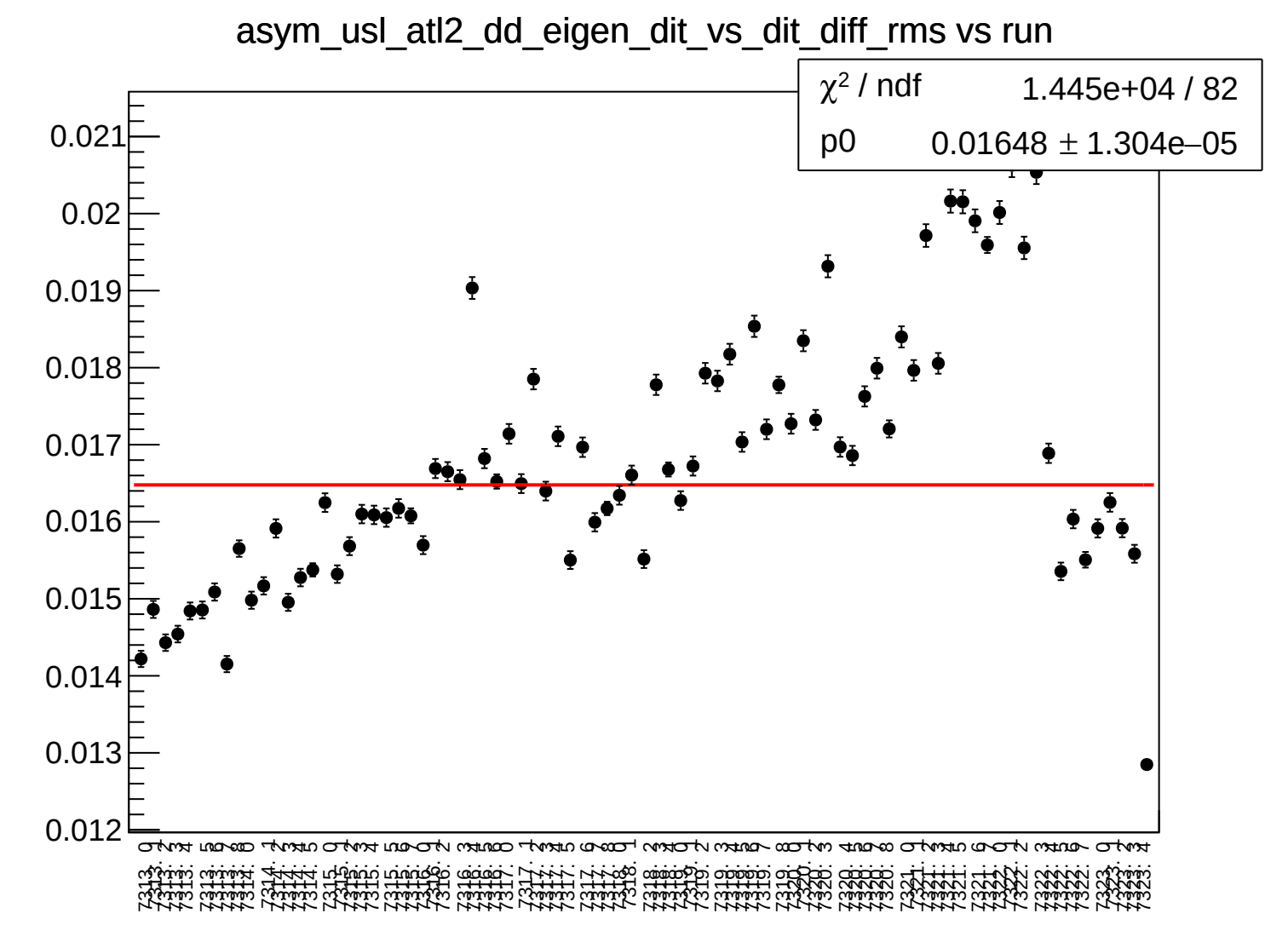

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 82
p0 −0.9093 ± 1.165
pull
Entries 83
Mean 322.3
Std Dev 0

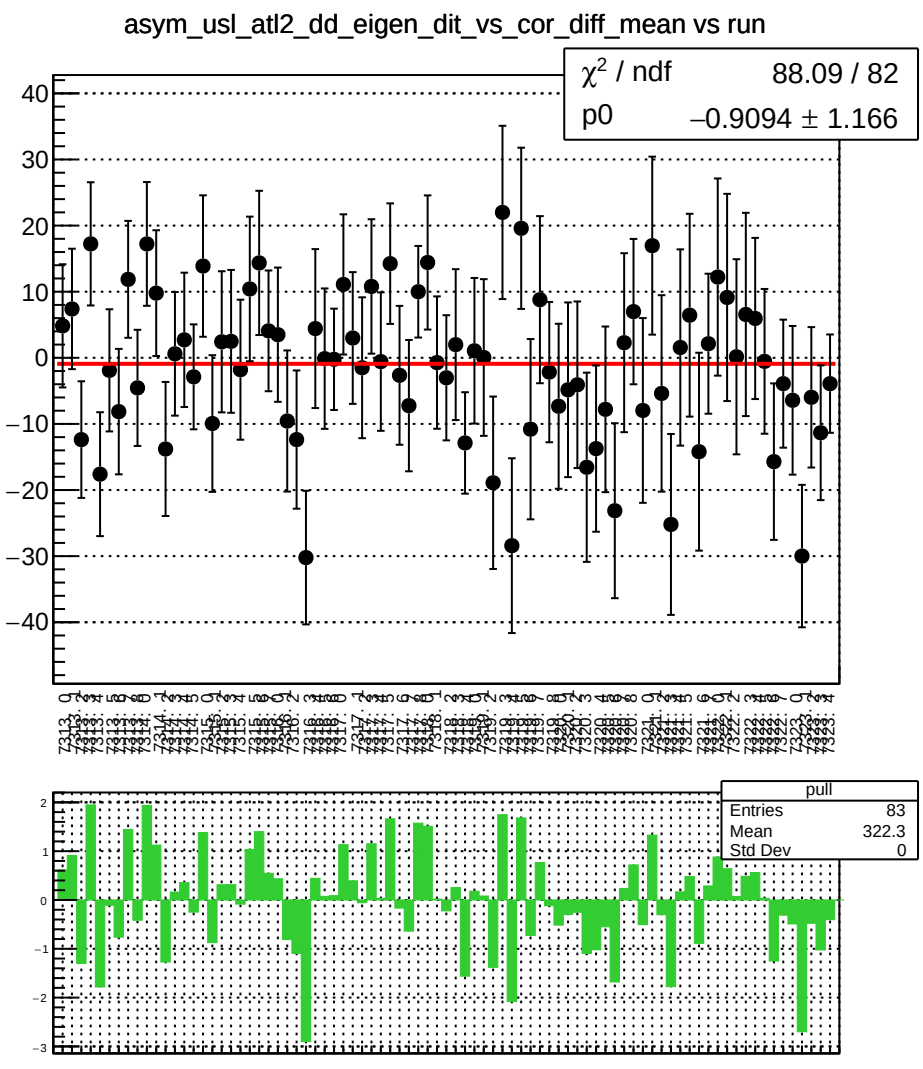

pull1D
Entries 83
Mean −0.01824
Std Dev 1.03

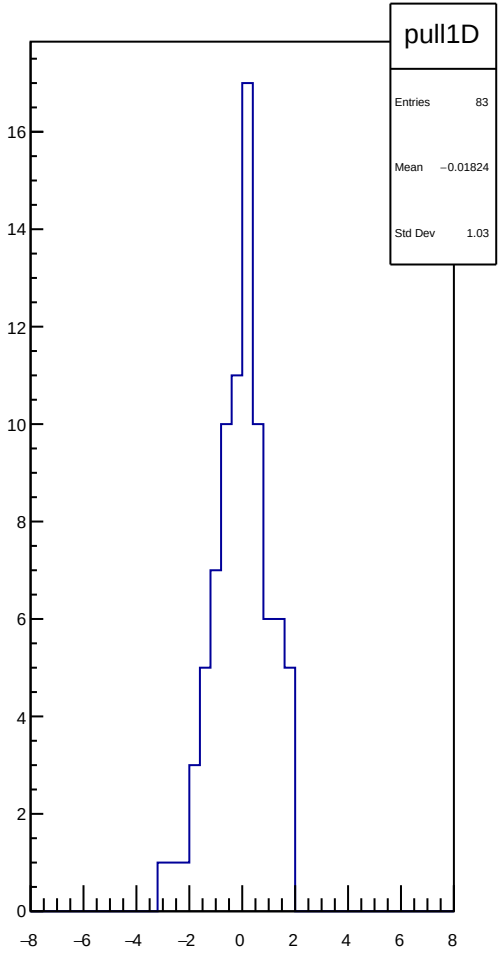

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.632e+04 / 82
p0 1034 ± 0.8241
1500
1400
1300
1200
1100
1000
900
800

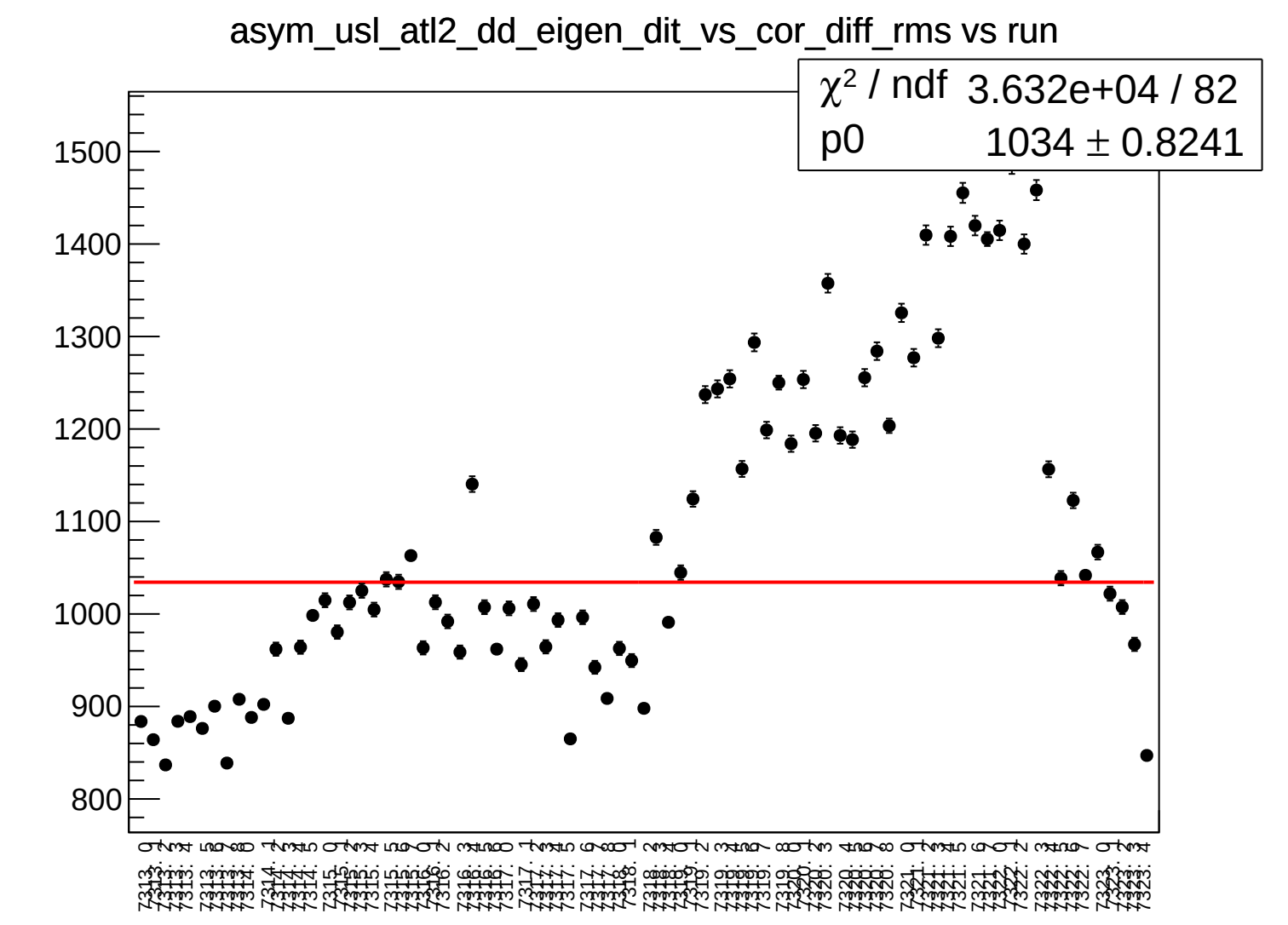

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.77 / 82
p0 −2.025e−05 ± 1.844e−05
pull
Entries 83
Mean 647.4
Std Dev 0

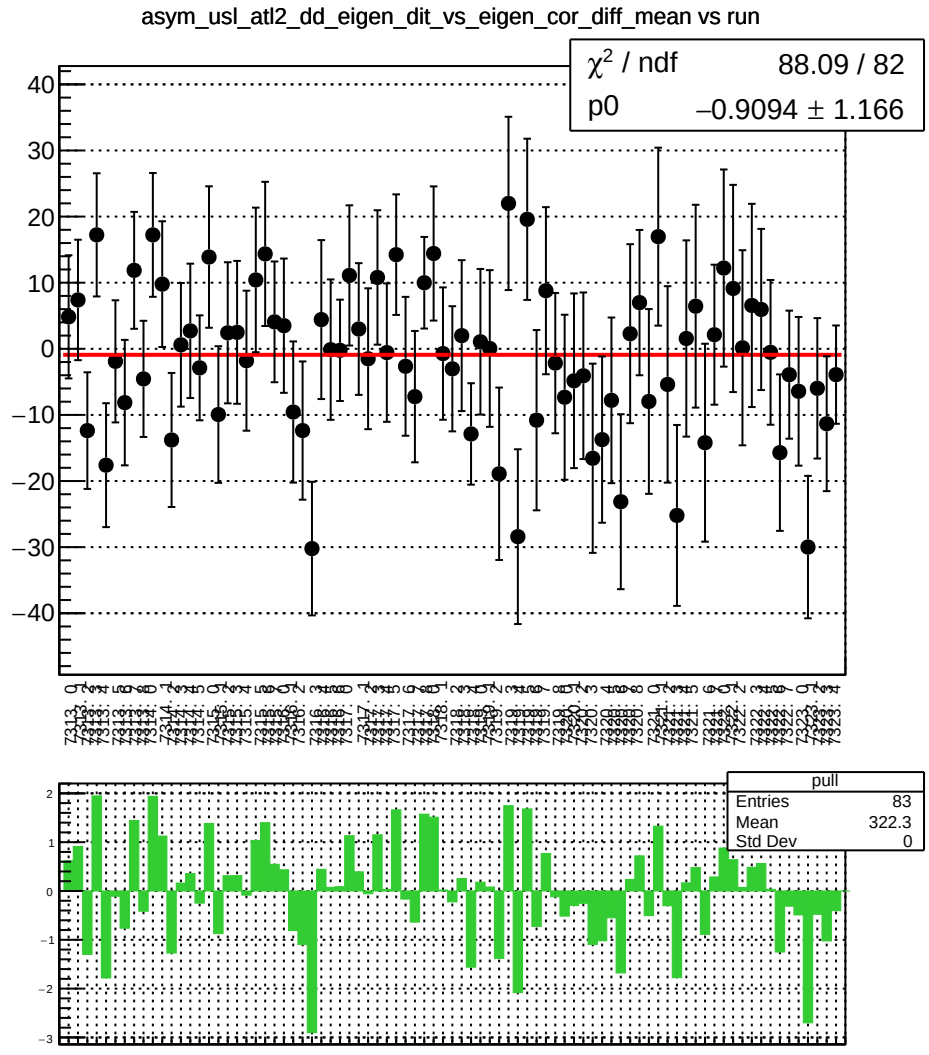

pull1D
Entries 83
Mean −0.006879
Std Dev 0.9741

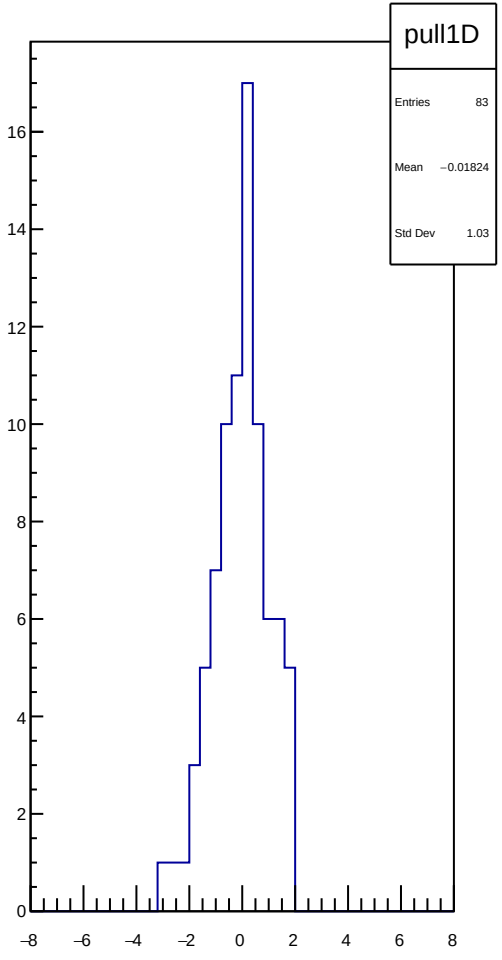

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.445e+04 / 82
p0 0.01648 ± 1.304e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

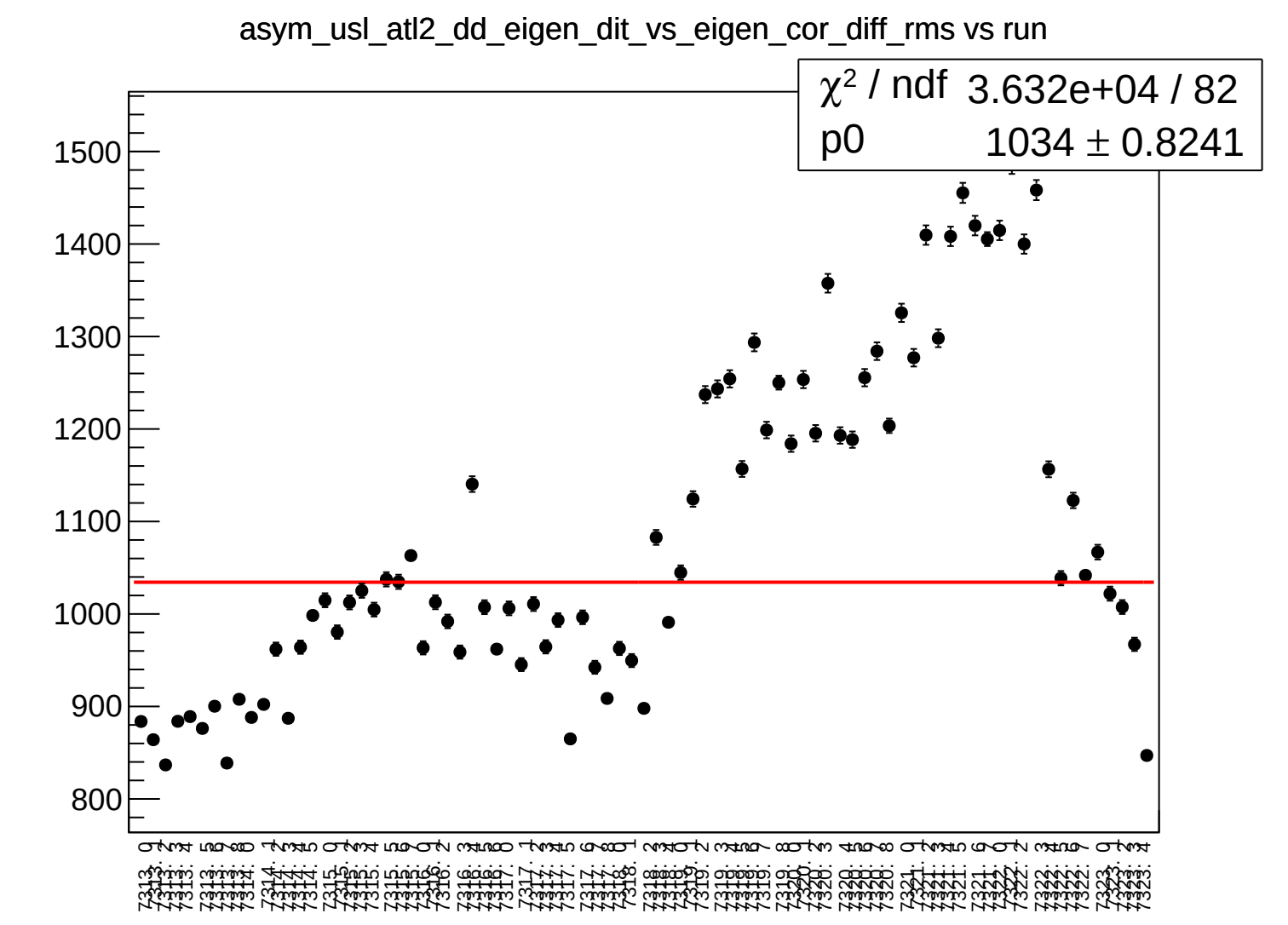

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 82
p0 −0.9094 ± 1.166
pull
Entries 83
Mean 322.3
Std Dev 0

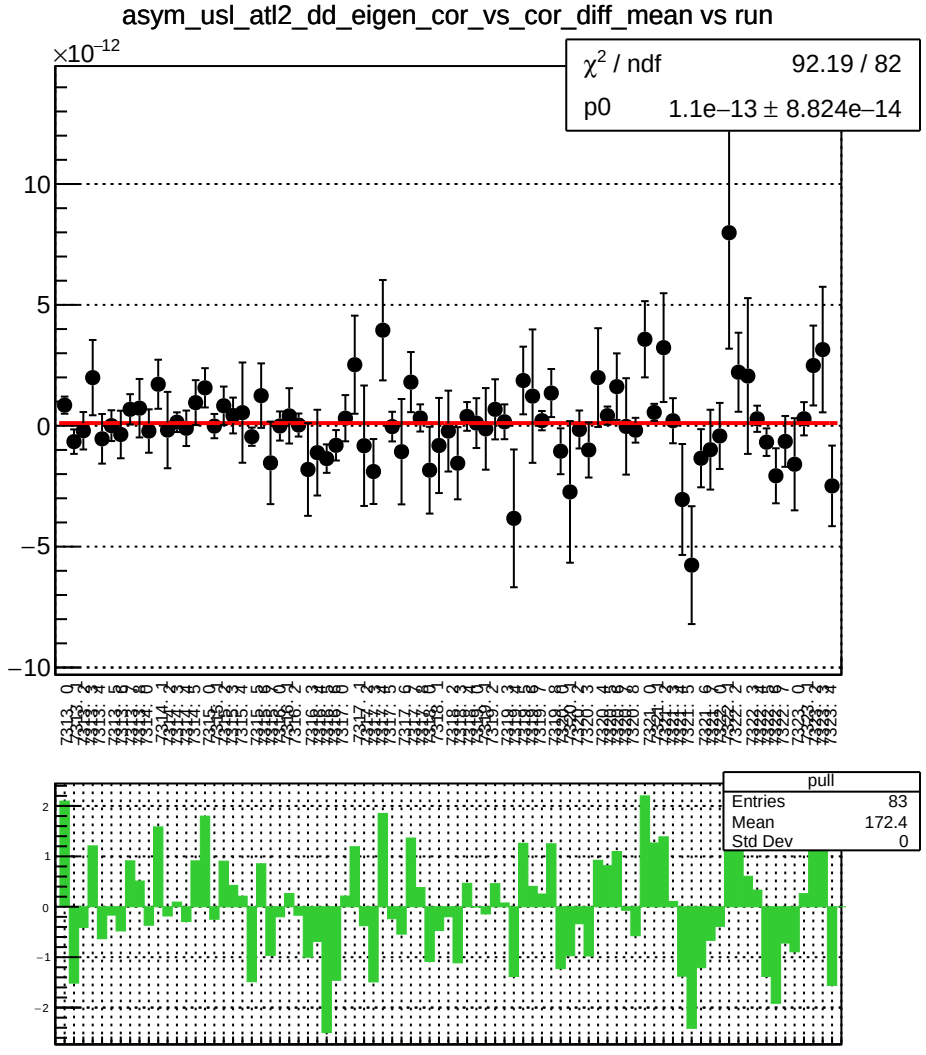

pull1D
Entries 83
Mean −0.01824
Std Dev 1.03

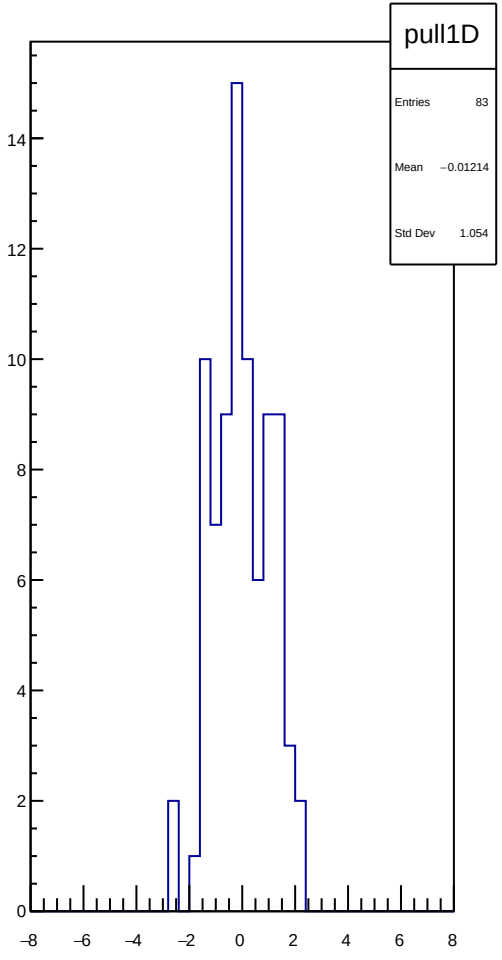

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.632e+04 / 82
p0 1034 ± 0.8241
1500
1400
1300
1200
1100
1000
900
800

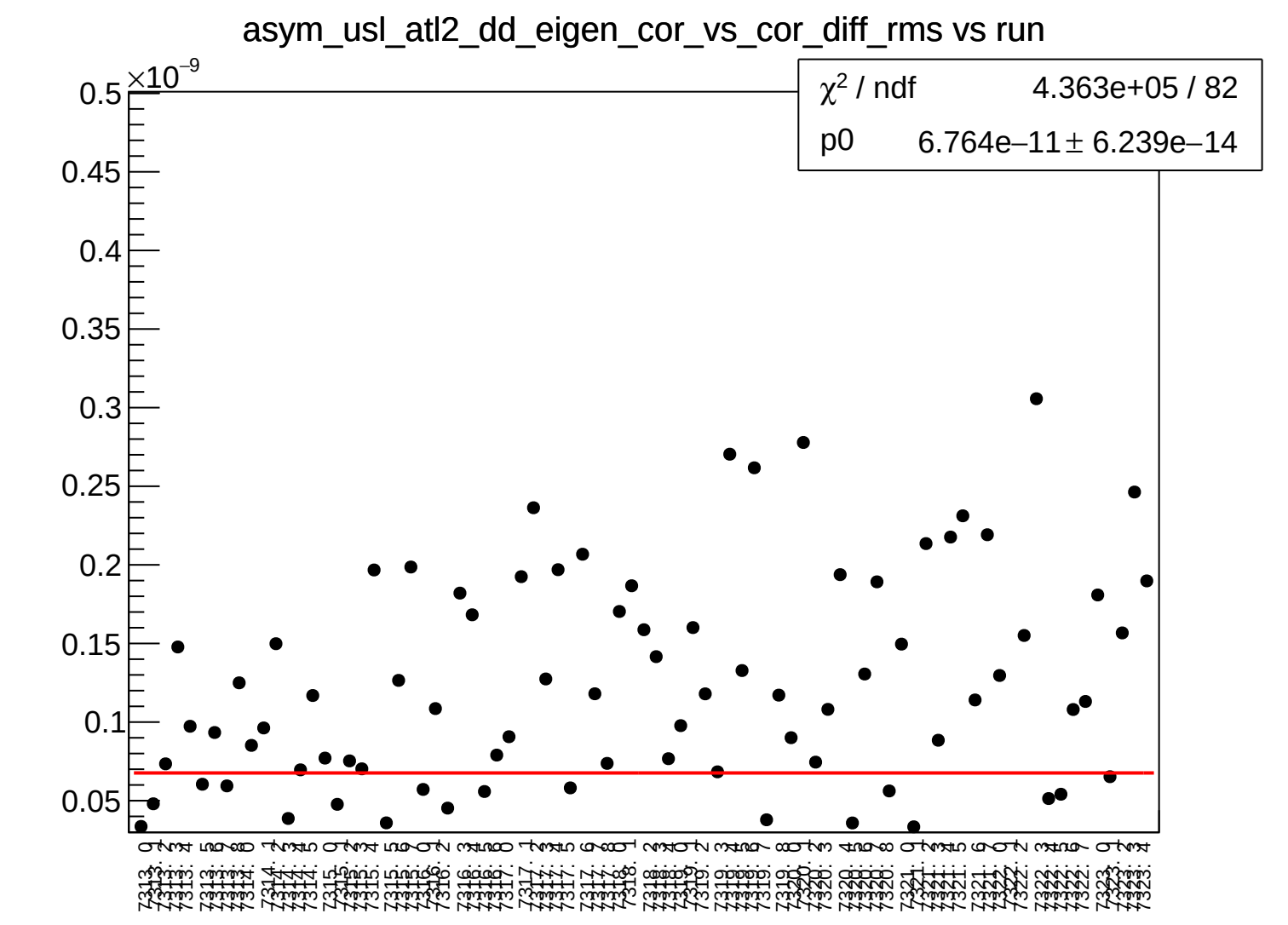

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 82
p0 −0.9094 ± 1.166
pull
Entries 83
Mean 322.3
Std Dev 0

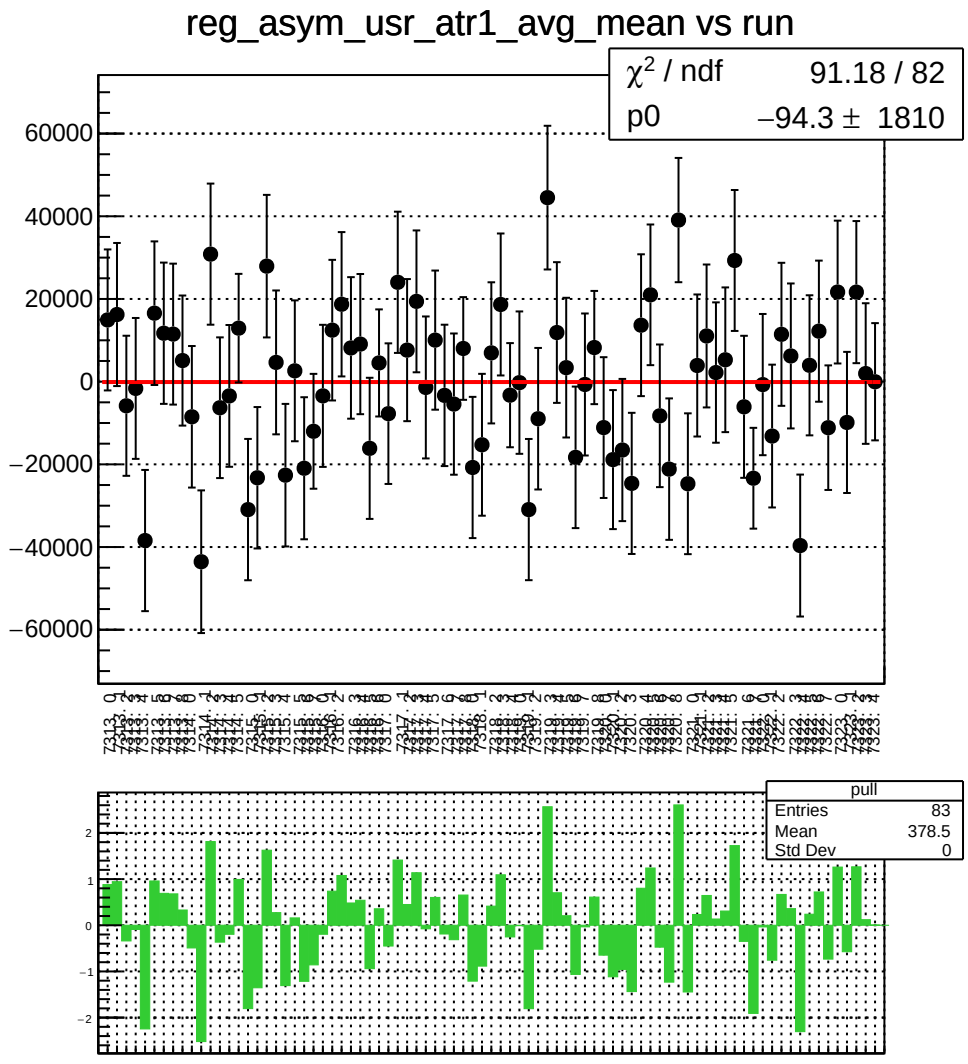

pull1D
Entries 83
Mean −0.01824
Std Dev 1.03

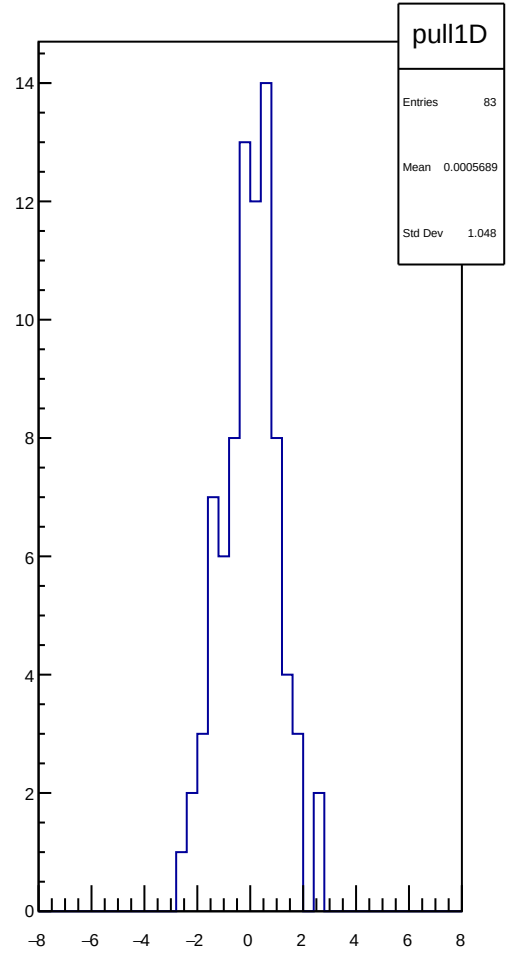

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.632e+04 / 82
p0 1034 ± 0.8241
1500
1400
1300
1200
1100
1000
900
800

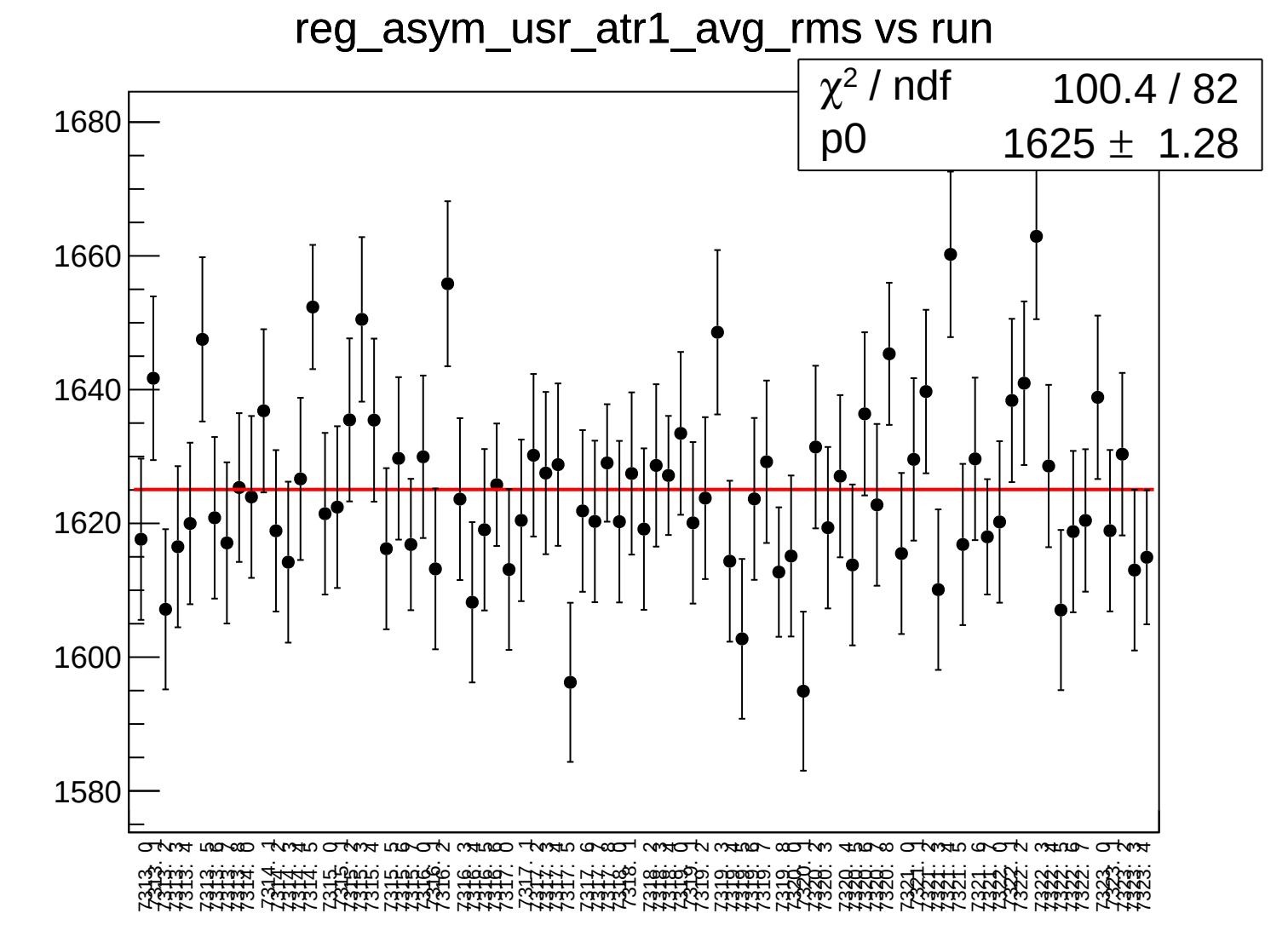

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.19 / 82
p0 1.1e−13 ± 8.824e−14
pull
Entries 83
Mean 172.4
Std Dev 0

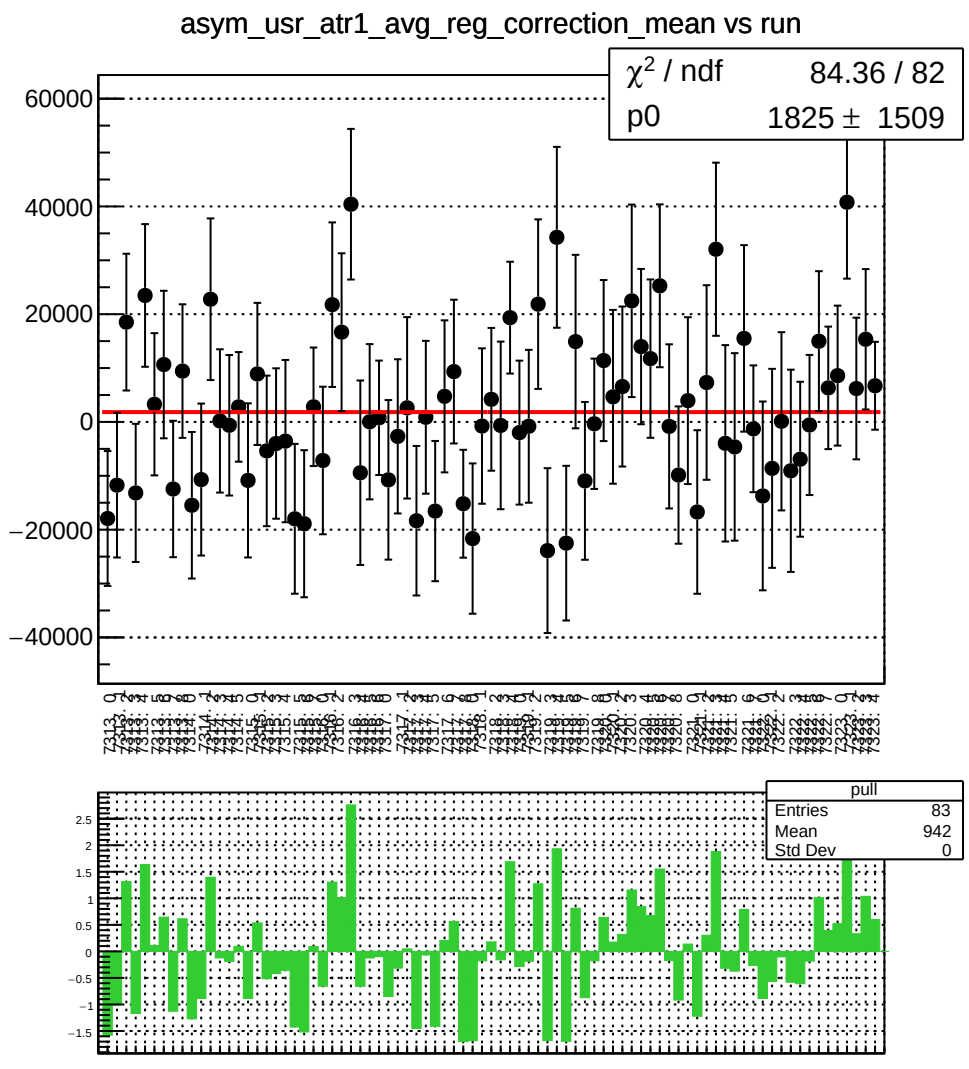

pull1D
Entries 83
Mean −0.01214
Std Dev 1.054

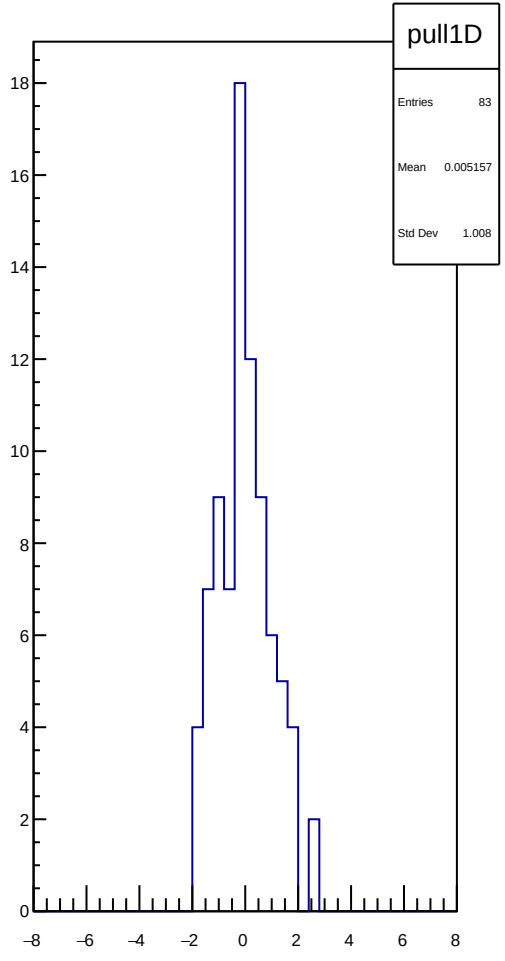

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.363e+05 / 82
p0 6.764e−11 ± 6.239e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

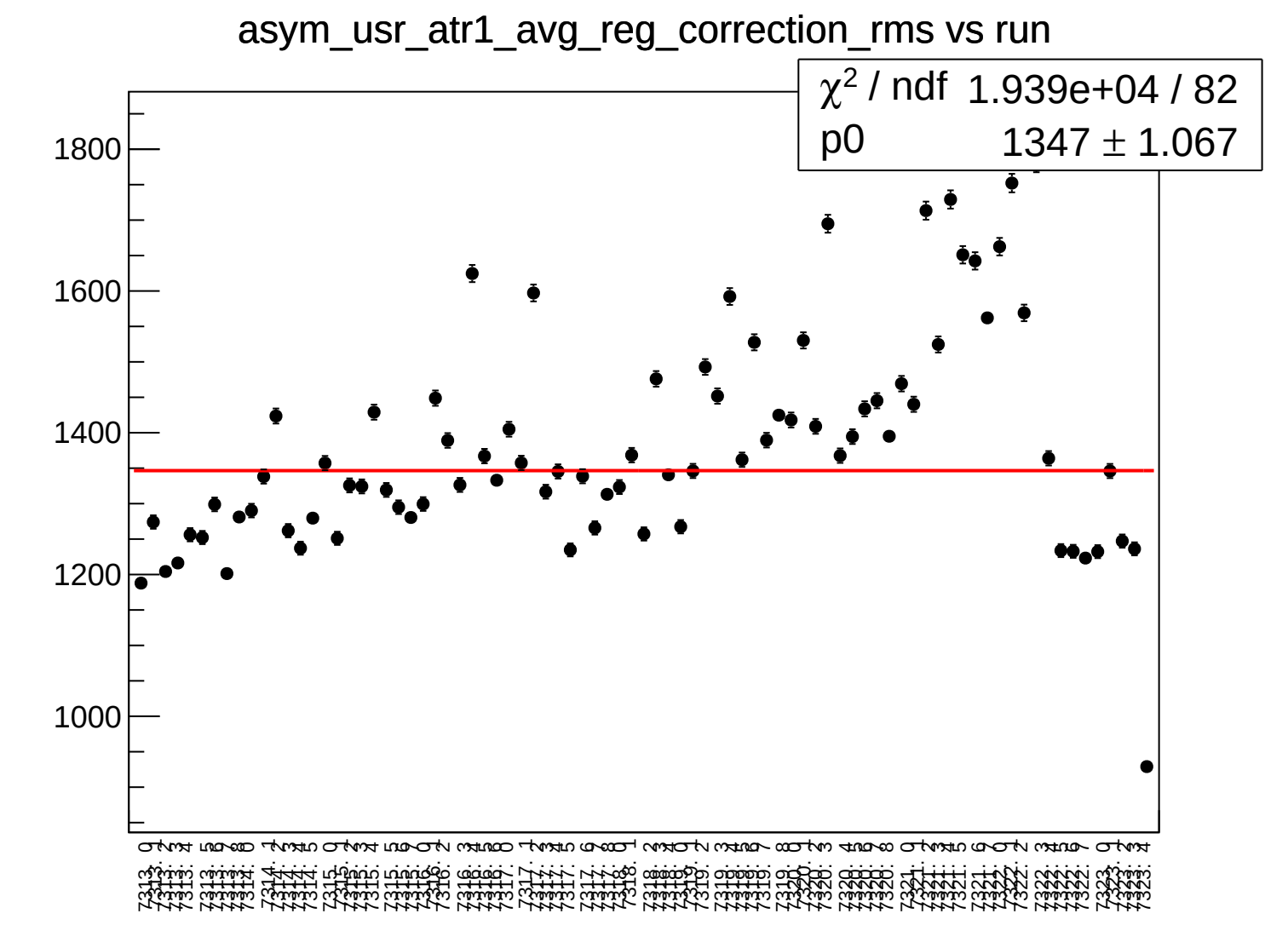

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.18 / 82
p0 −94.3 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 378.5
Std Dev 0
2
1
0
−1
−2

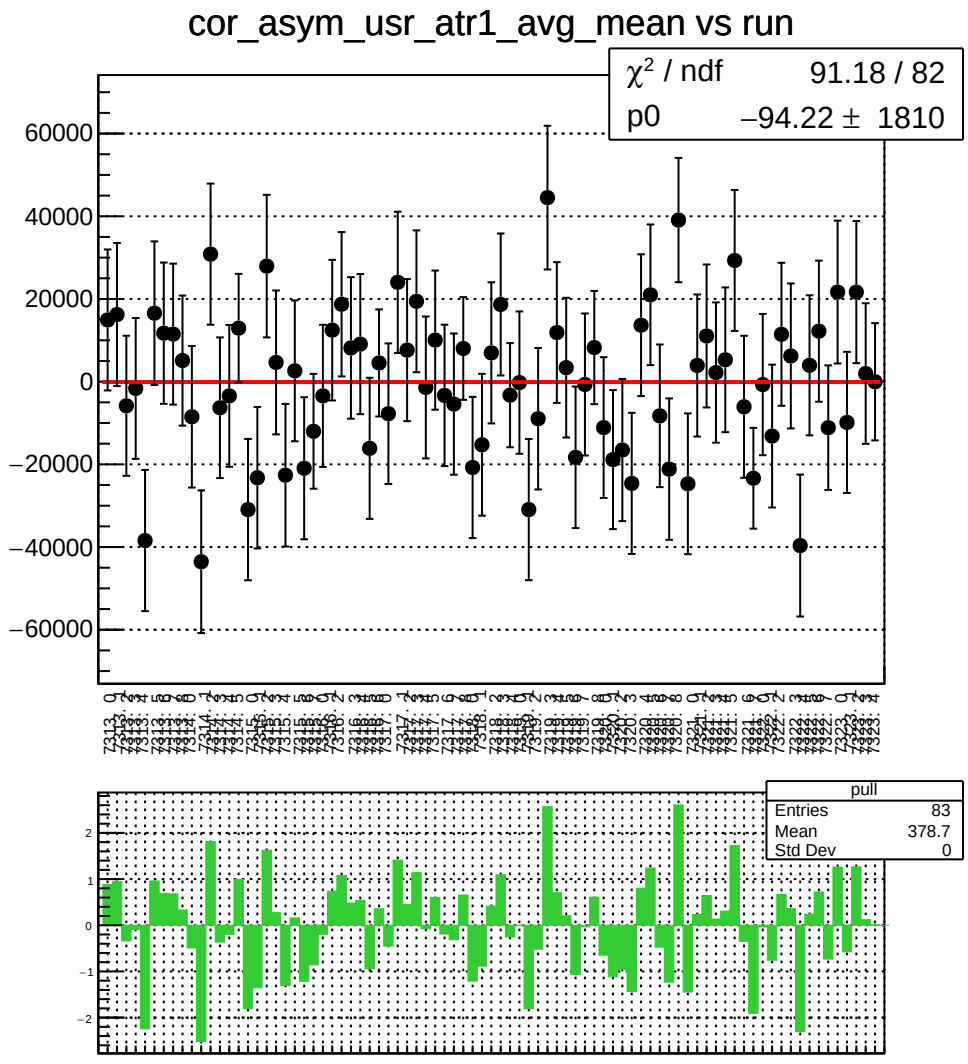

pull1D
Entries 83
Mean 0.0005689
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

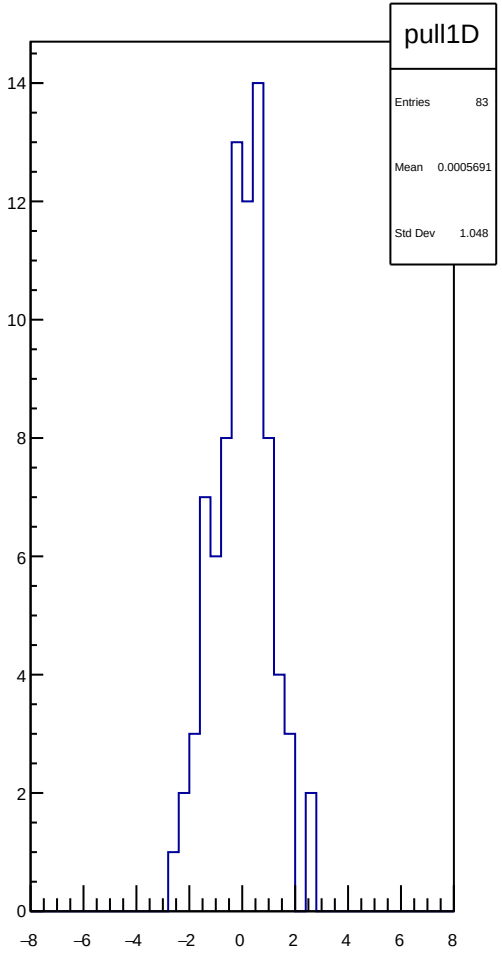

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.4 / 82
p0 1625 ± 1.28
1680
1660
1640
1620
1600
1580

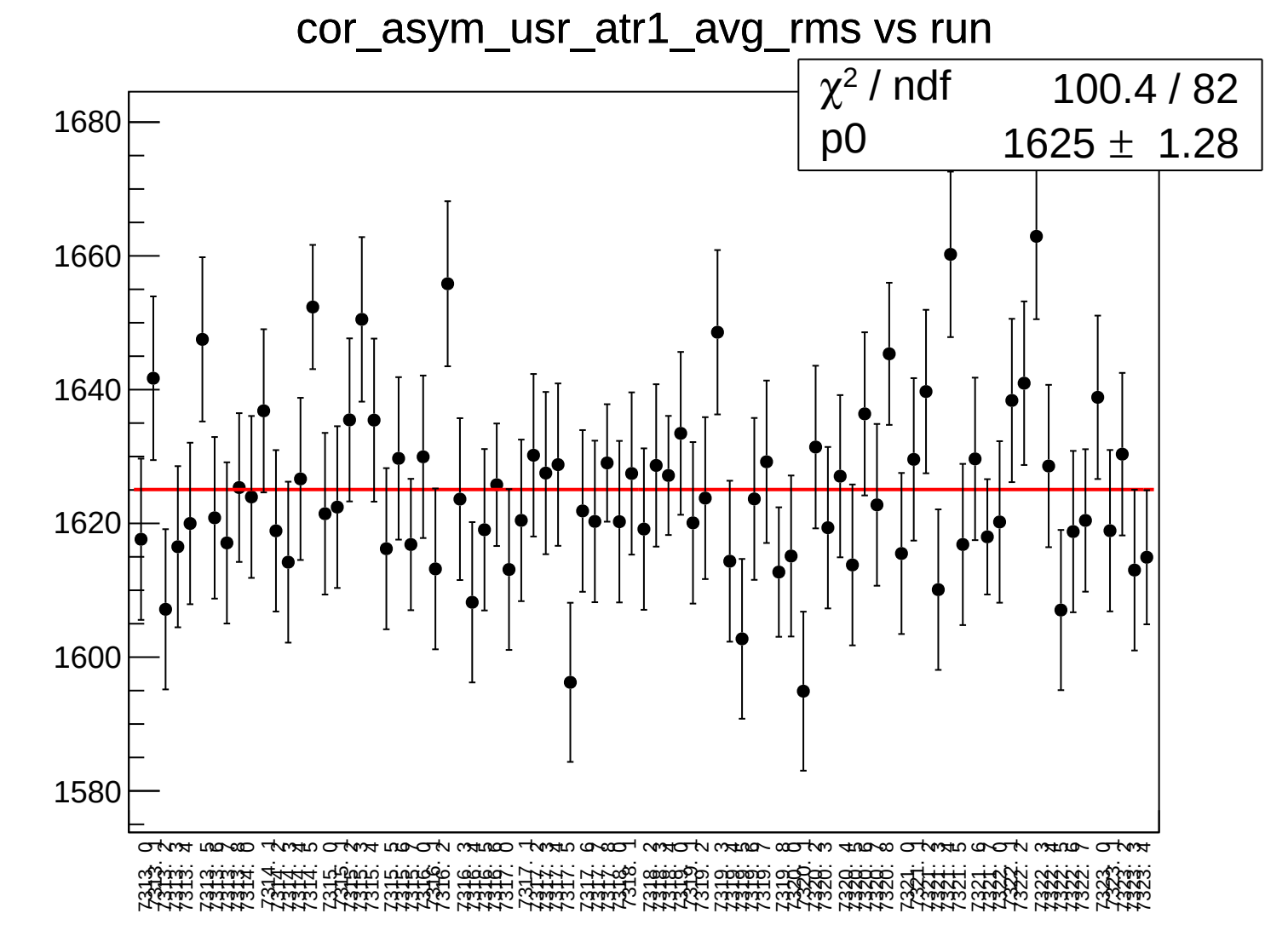

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 84.36 / 82
p0 1825 ± 1509
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 942
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

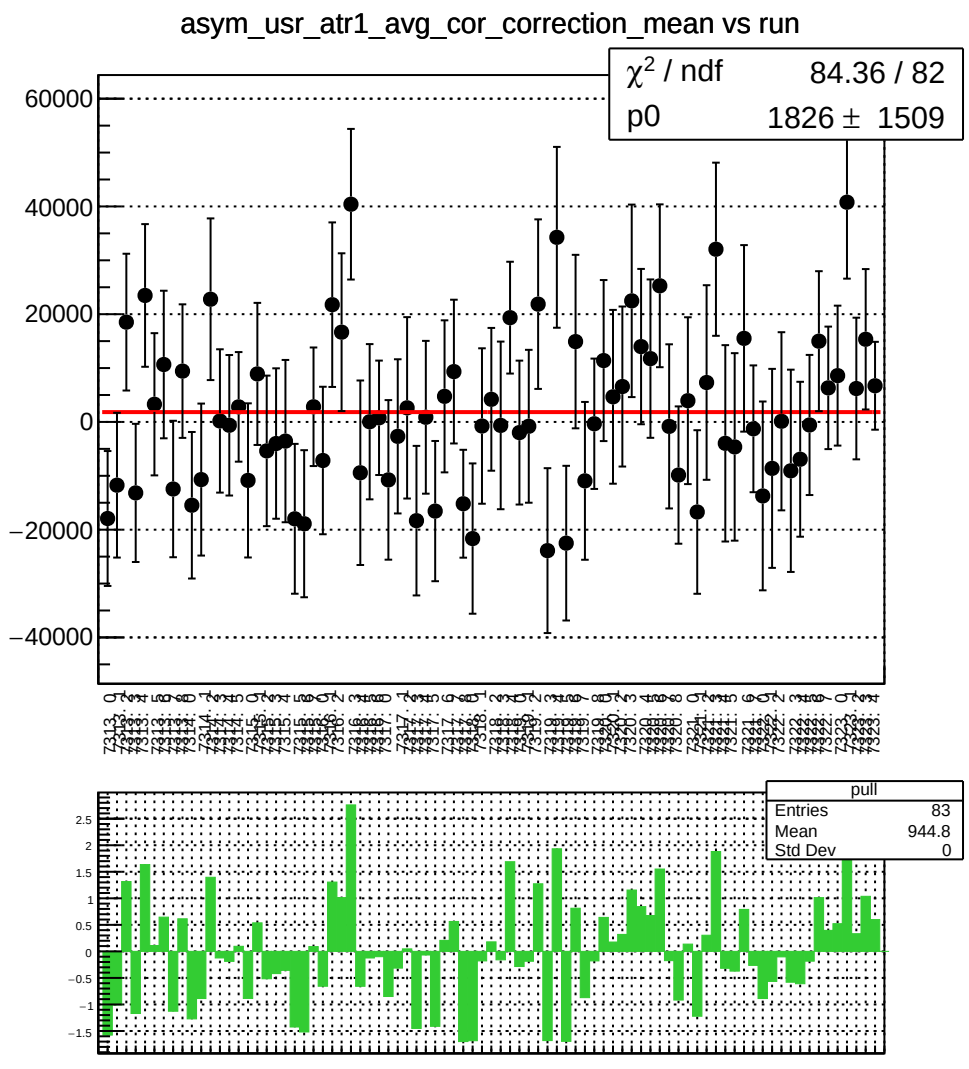

pull1D
Entries 83
Mean 0.005157
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

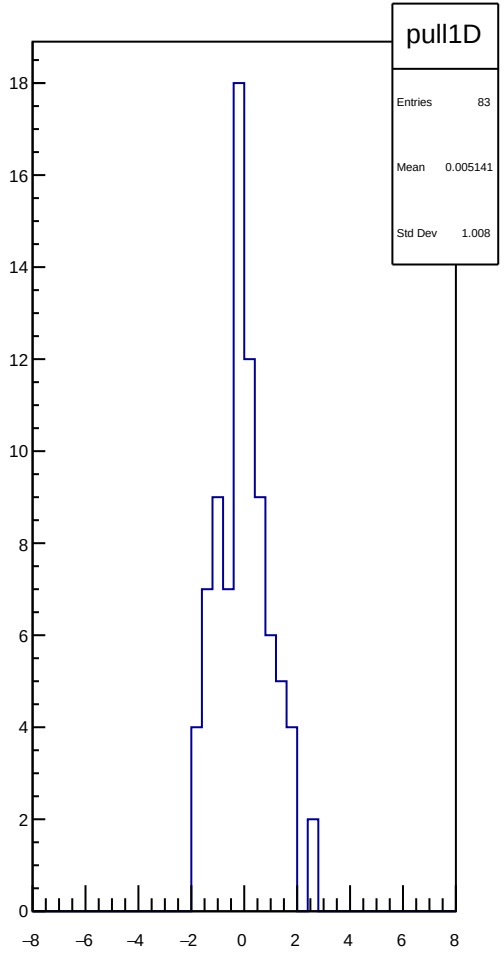

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.939e+04 / 82
p0 1347 ± 1.067
1800
1600
1400
1200
1000

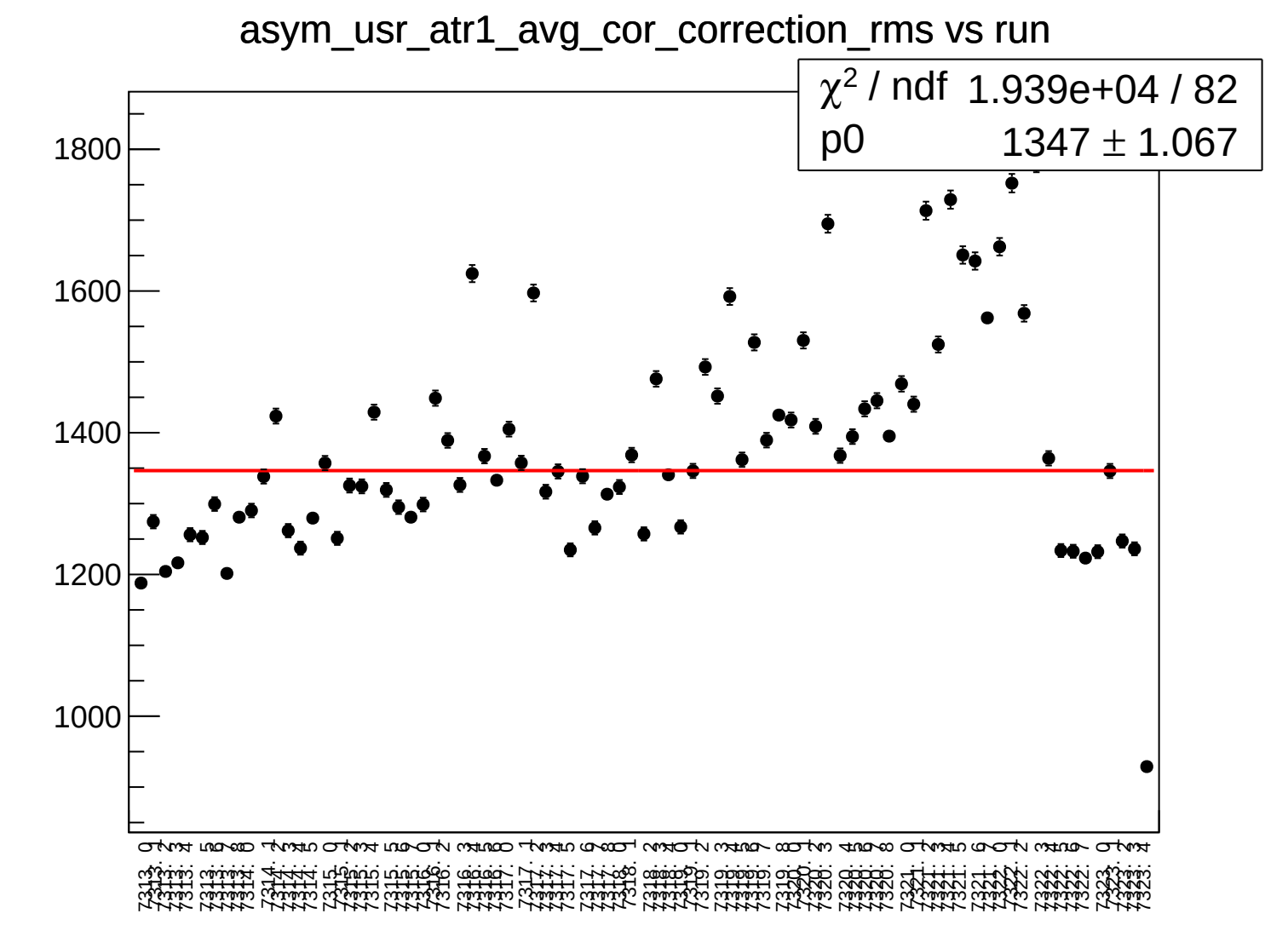

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.18 / 82
p0 −94.22 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 378.7
Std Dev 0
2
1
0
−1
−2

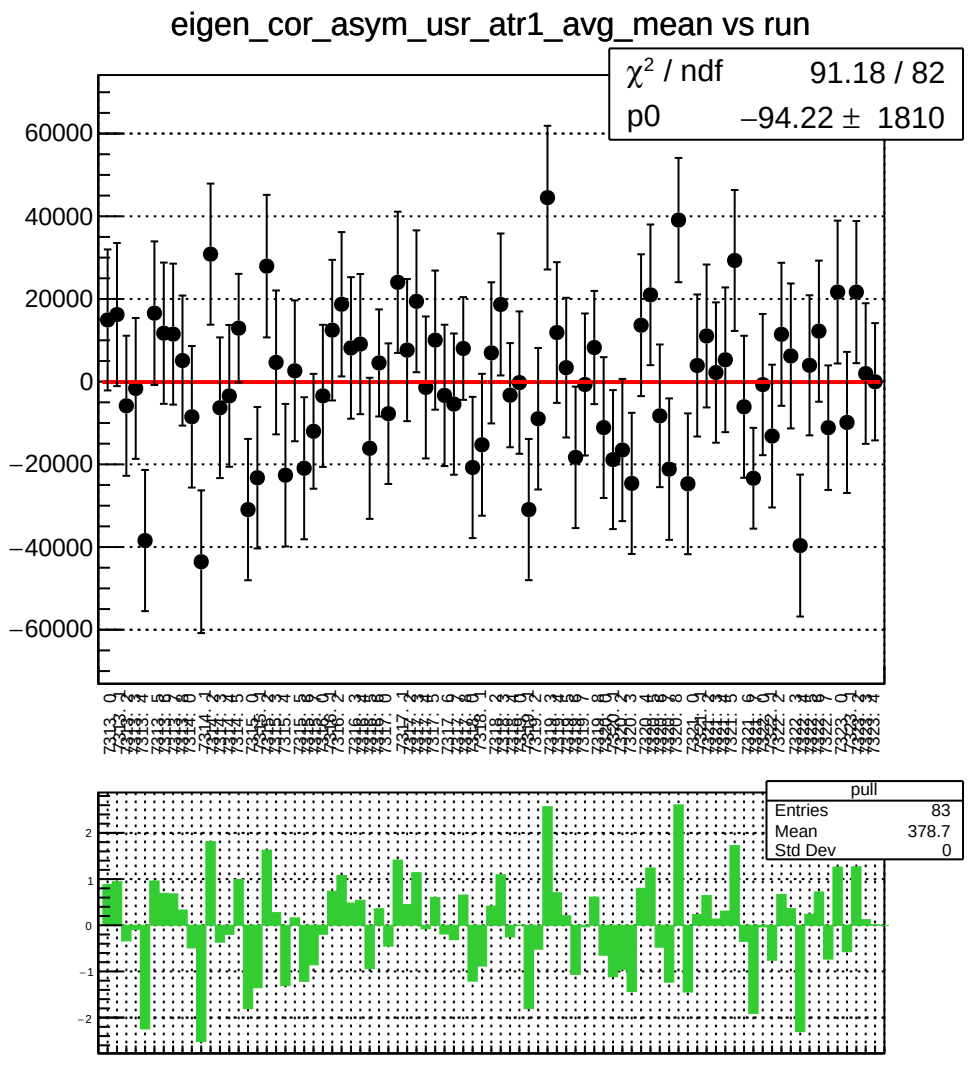

pull1D
Entries 83
Mean 0.0005691
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

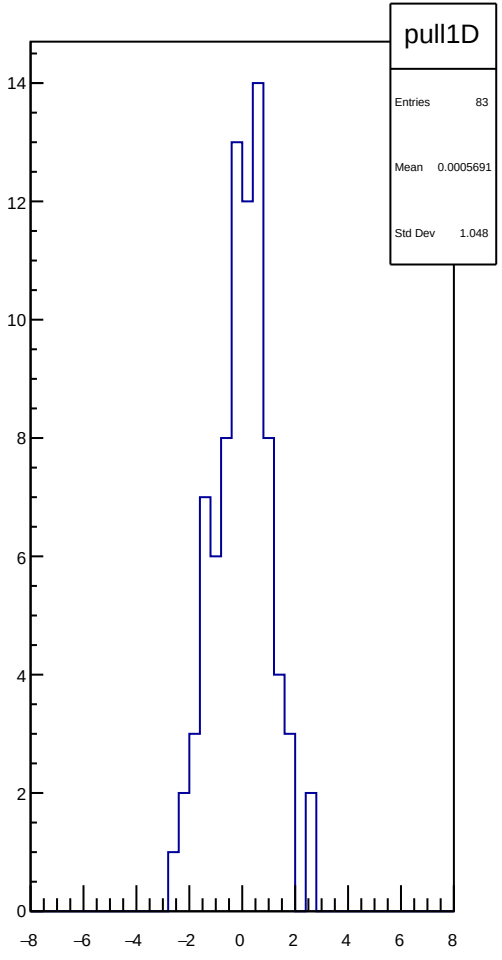

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.4 / 82
p0 1625 ± 1.28
1680
1660
1640
1620
1600
1580

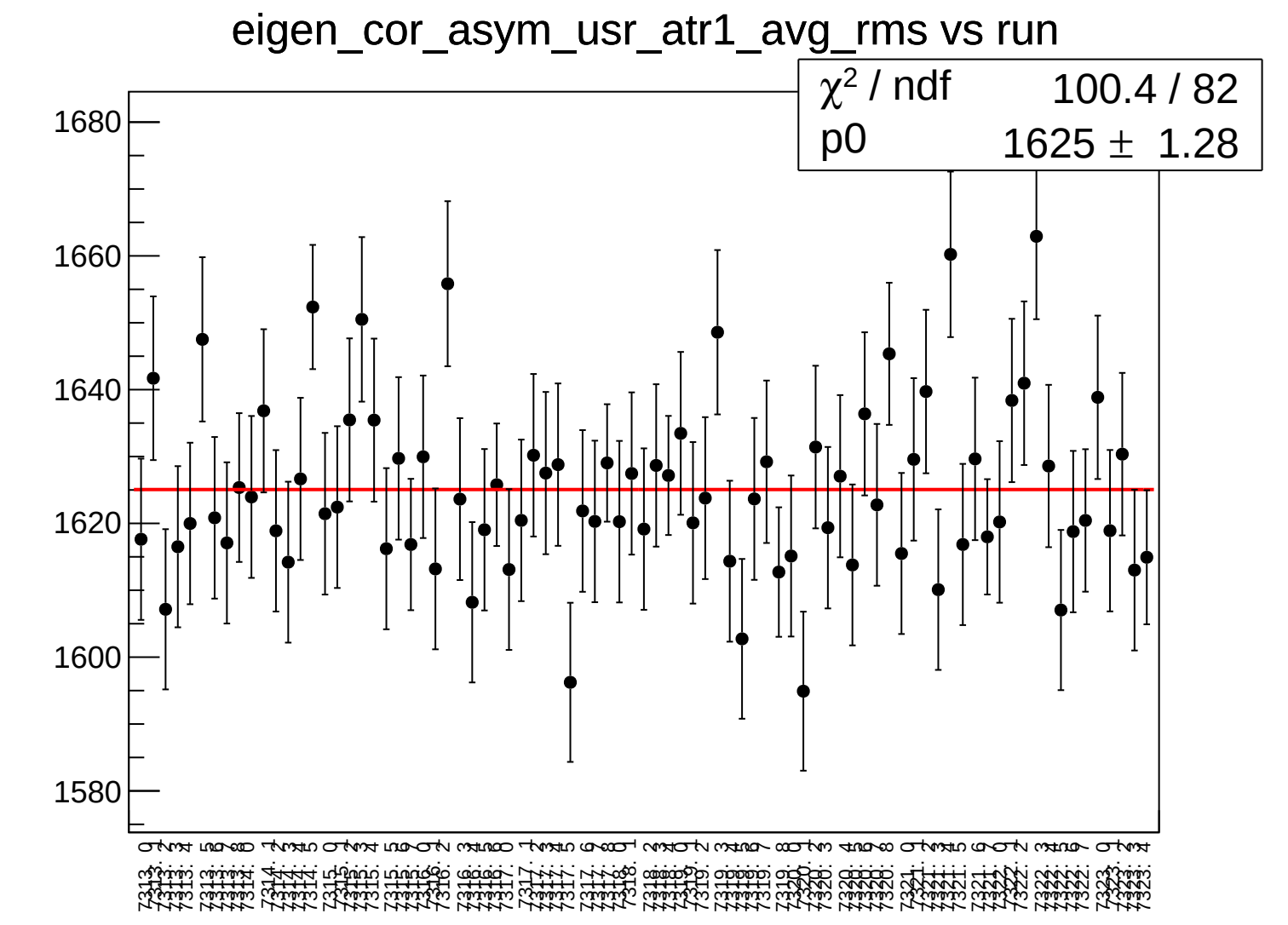

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 84.36 / 82
p0 1826 ± 1509
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 944.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

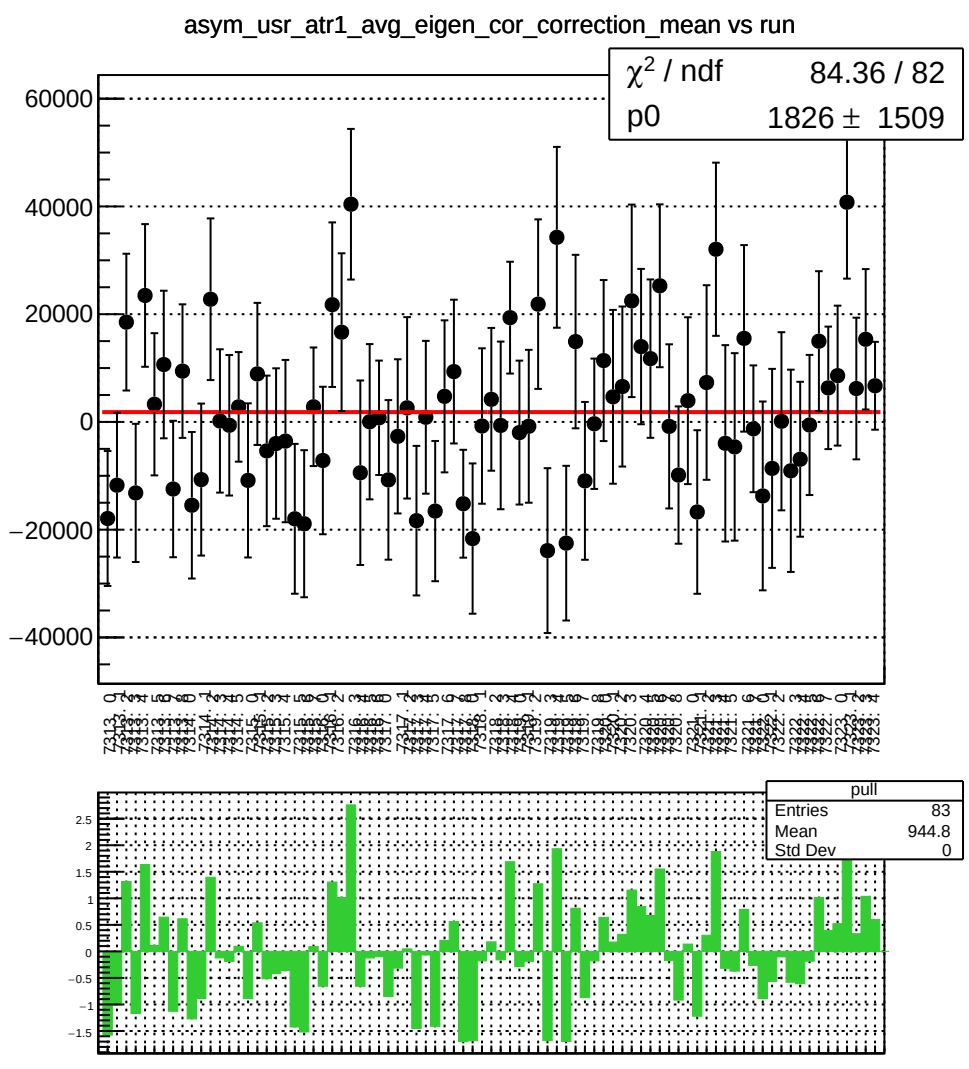

pull1D
Entries 83
Mean 0.005141
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

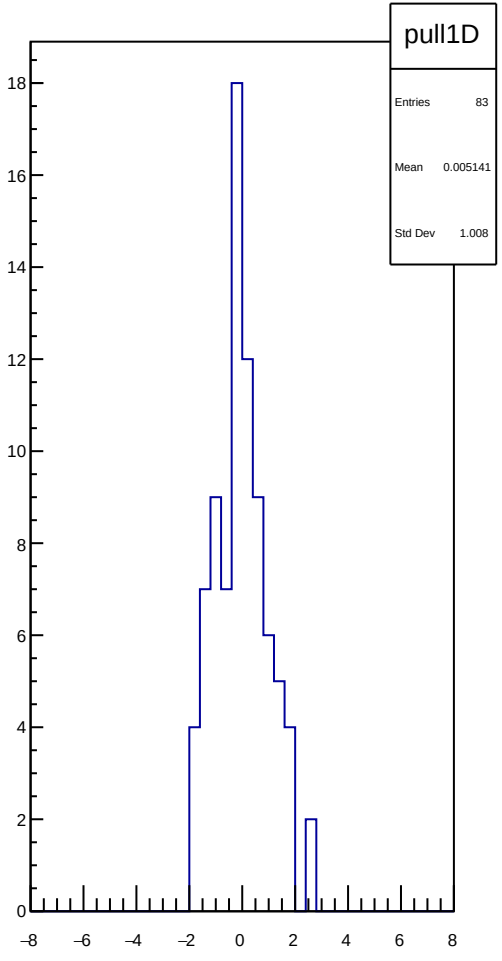

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.939e+04 / 82
p0 1347 ± 1.067
1800
1600
1400
1200
1000

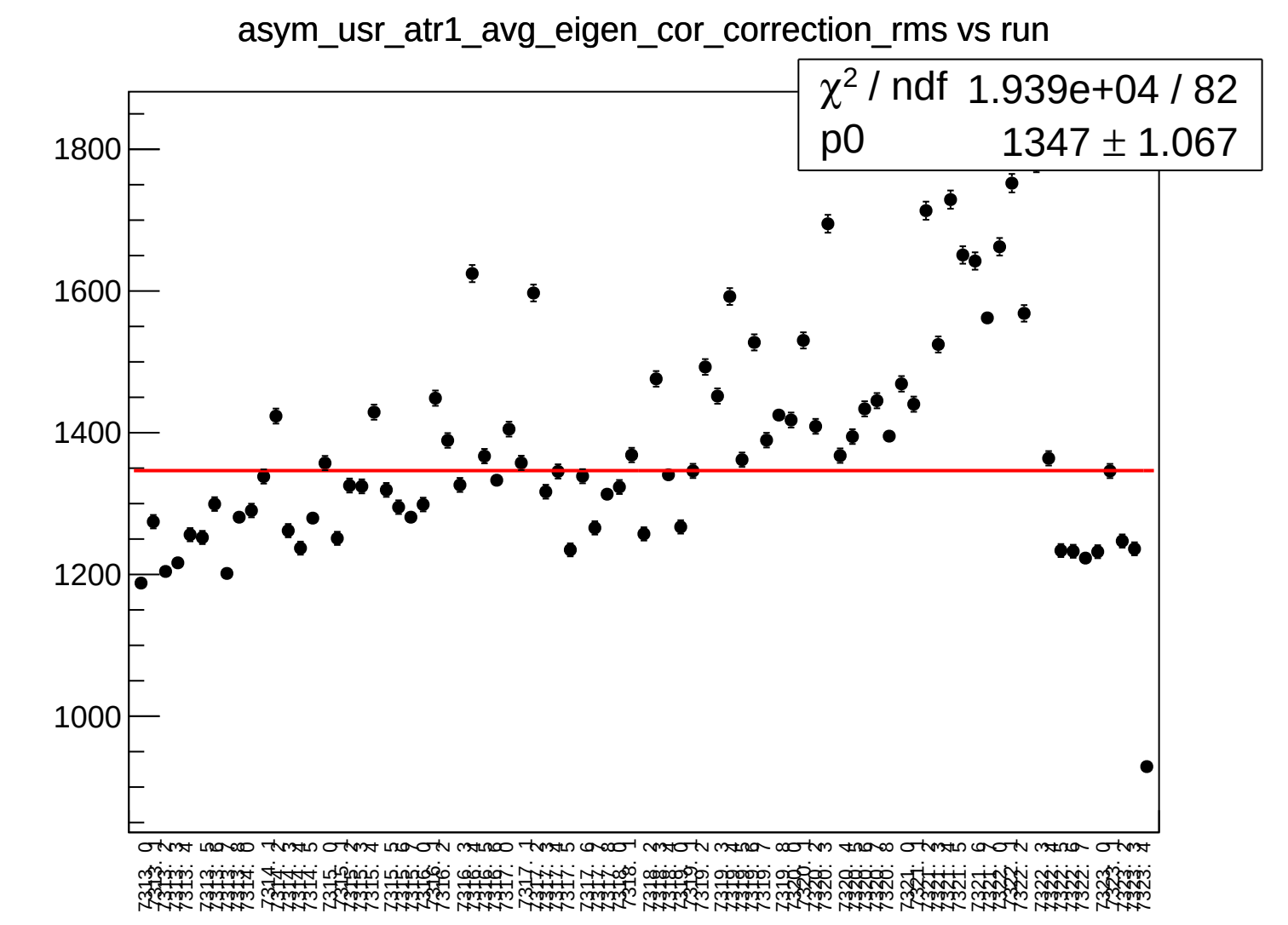

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.18 / 82
p0 −94.22 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 378.7
Std Dev 0
2
1
0
−1
−2

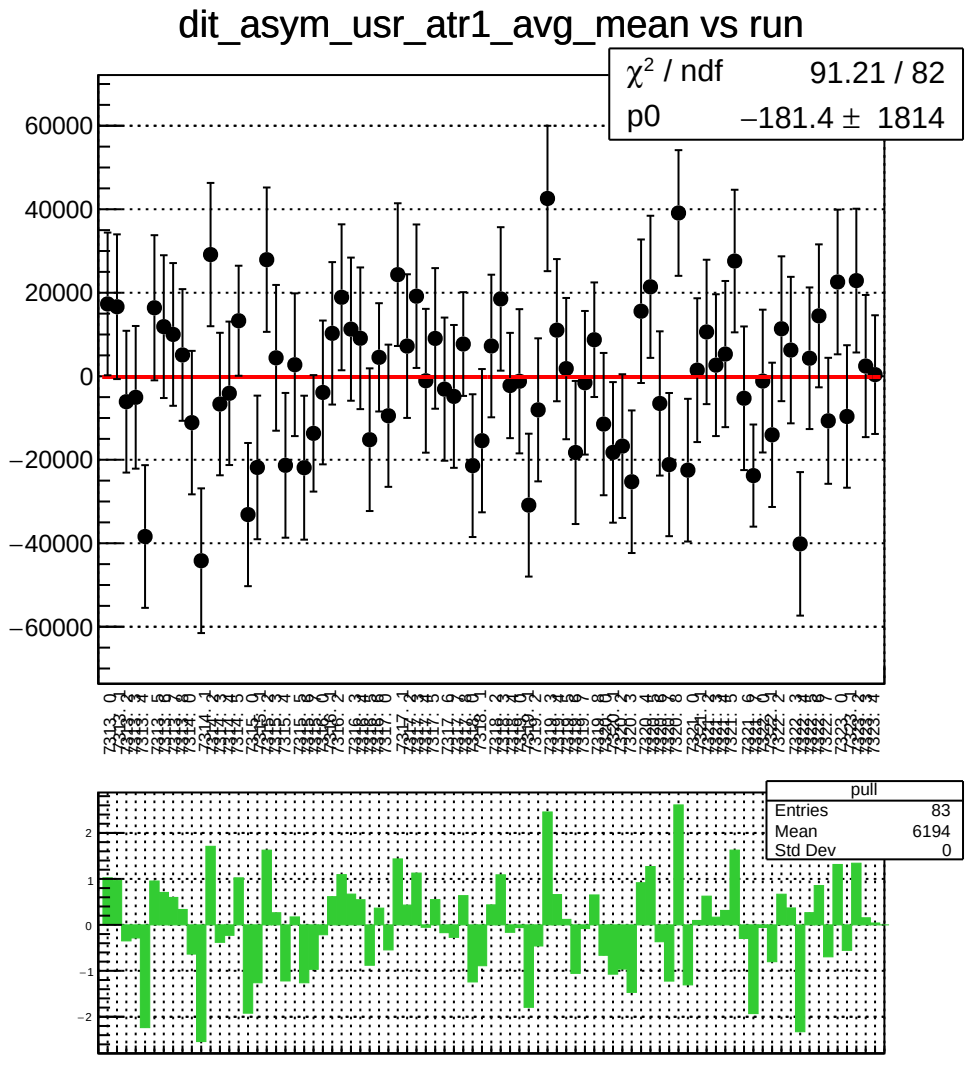

pull1D
Entries 83
Mean 0.0005691
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

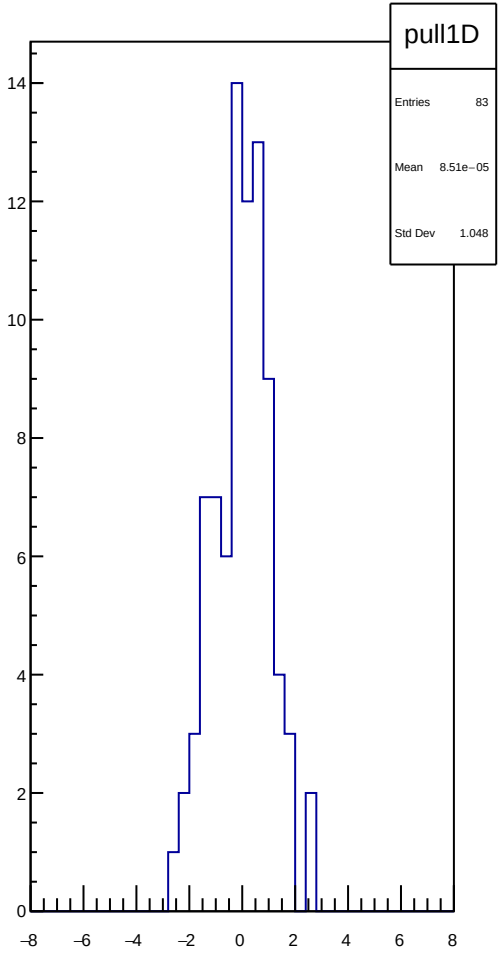

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.4 / 82
p0 1625 ± 1.28
1680
1660
1640
1620
1600
1580

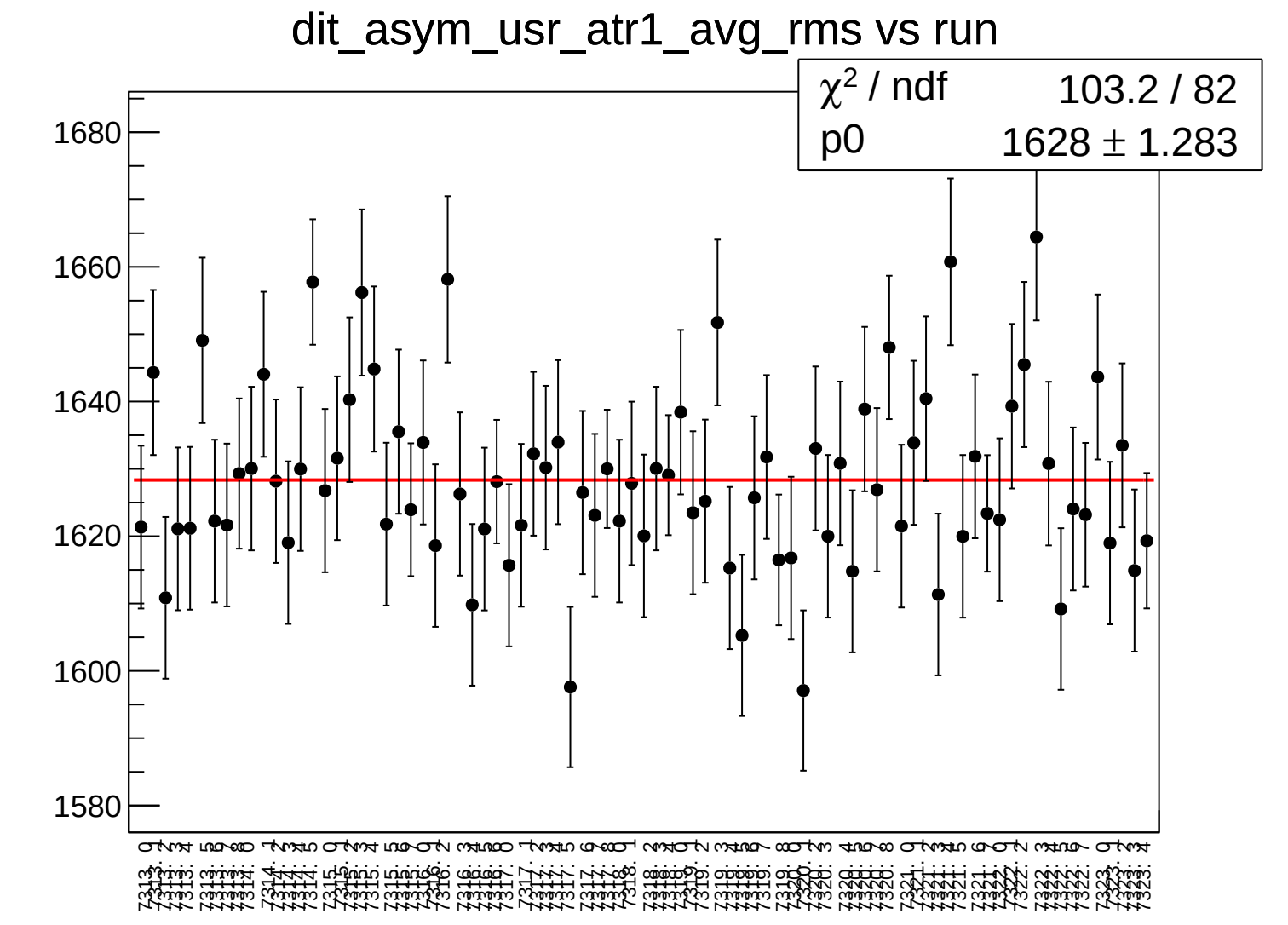

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.36 / 82
p0 1826 ± 1509
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 944.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

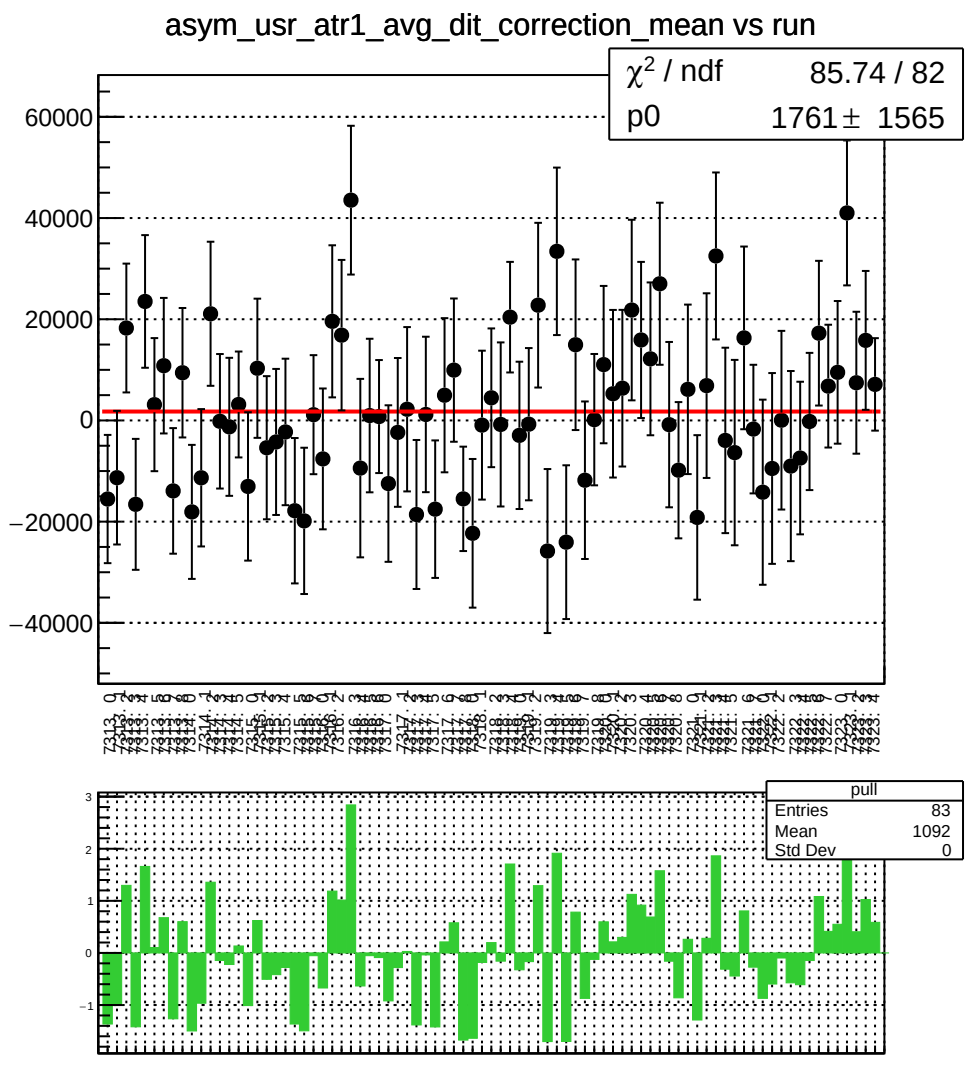

pull1D
Entries 83
Mean 0.005141
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

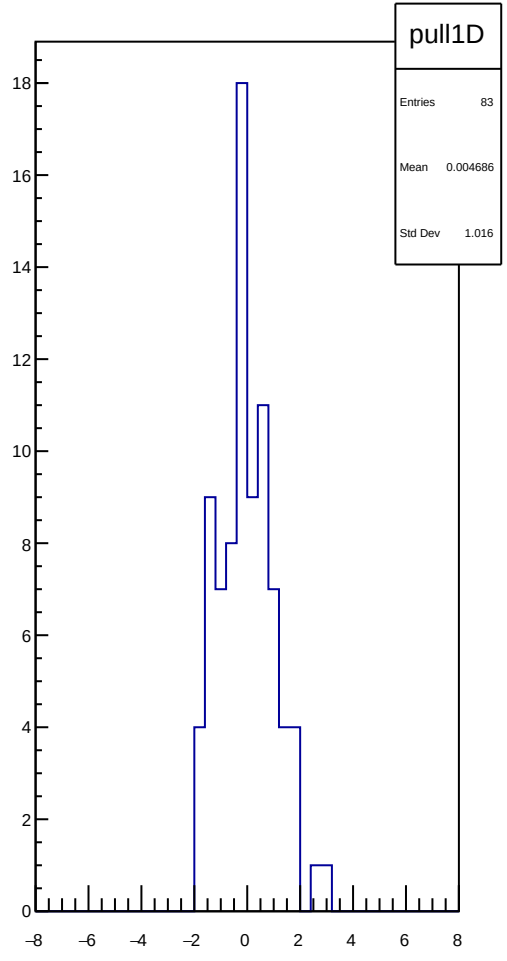

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.939e+04 / 82
p0 1347 ± 1.067
1800
1600
1400
1200
1000

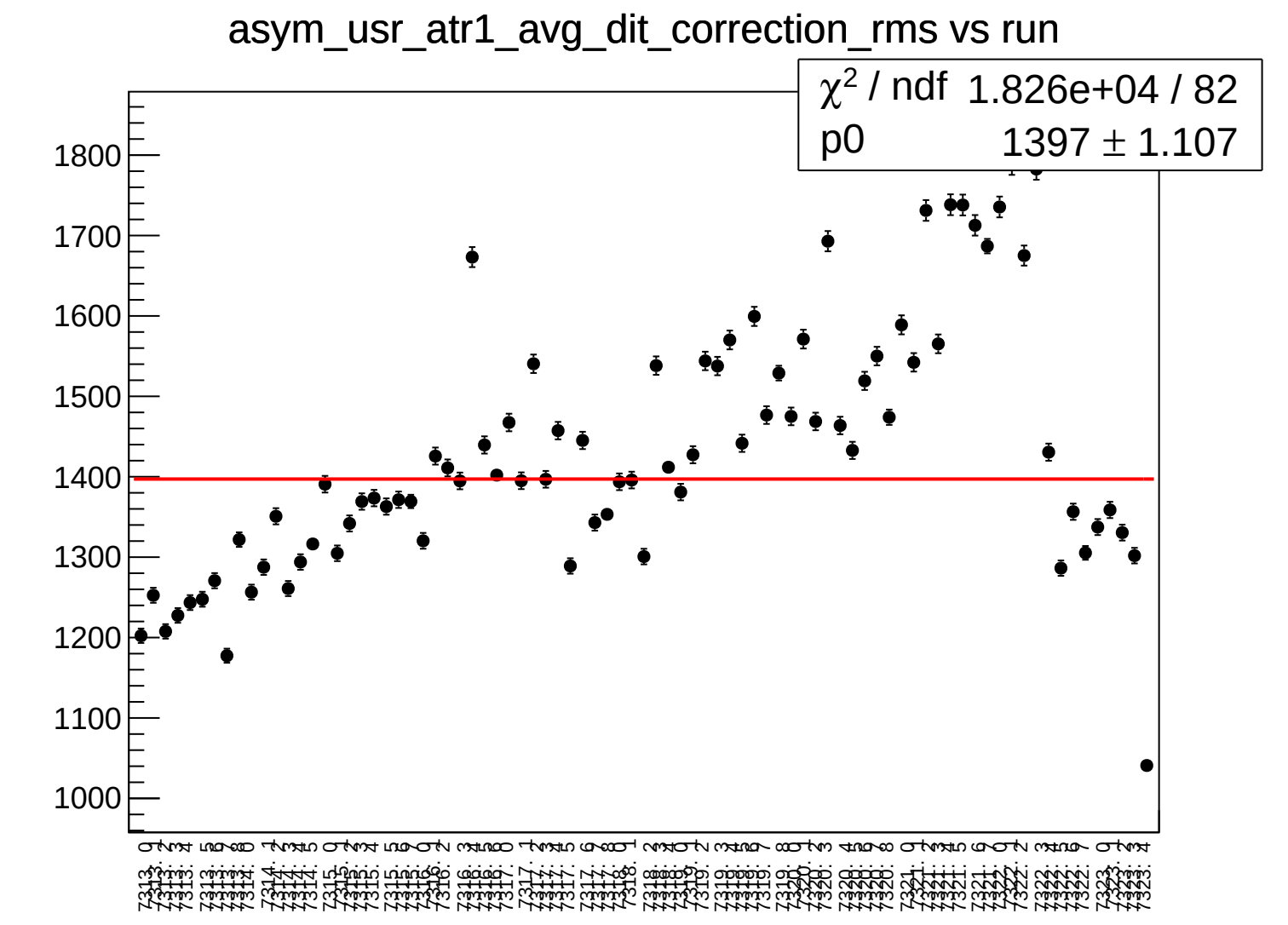

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.21 / 82
p0 −181.4 ± 1814
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 6194
Std Dev 0
2
1
0
−1
−2

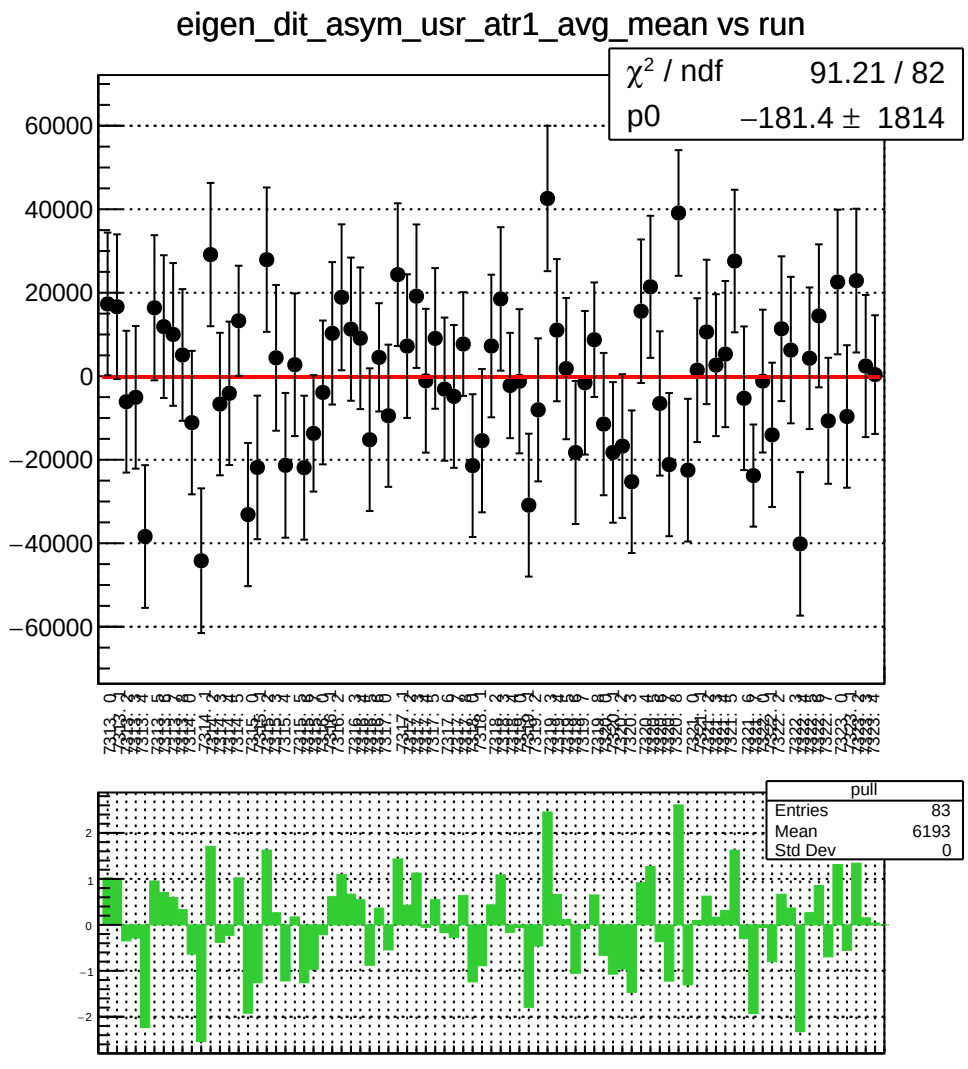

pull1D
Entries 83
Mean 8.51e−05
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

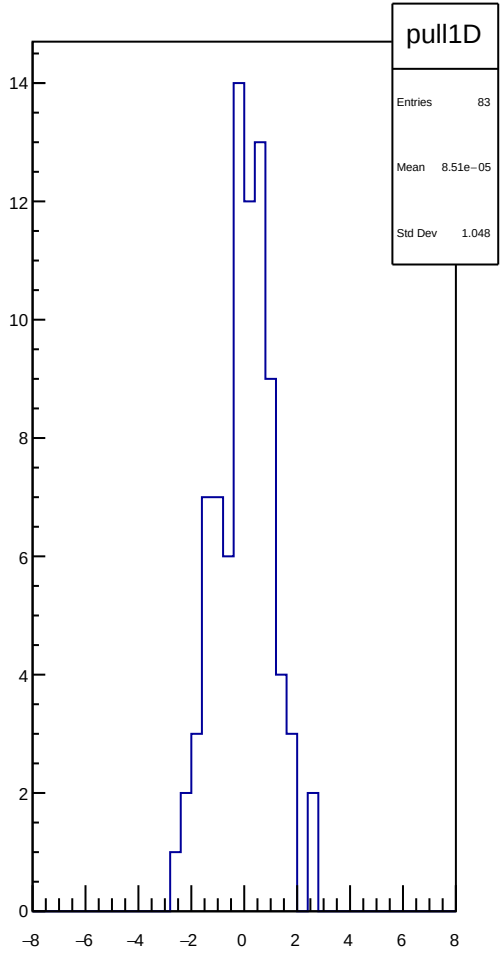

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 103.2 / 82
p0 1628 ± 1.283
1680
1660
1640
1620
1600
1580

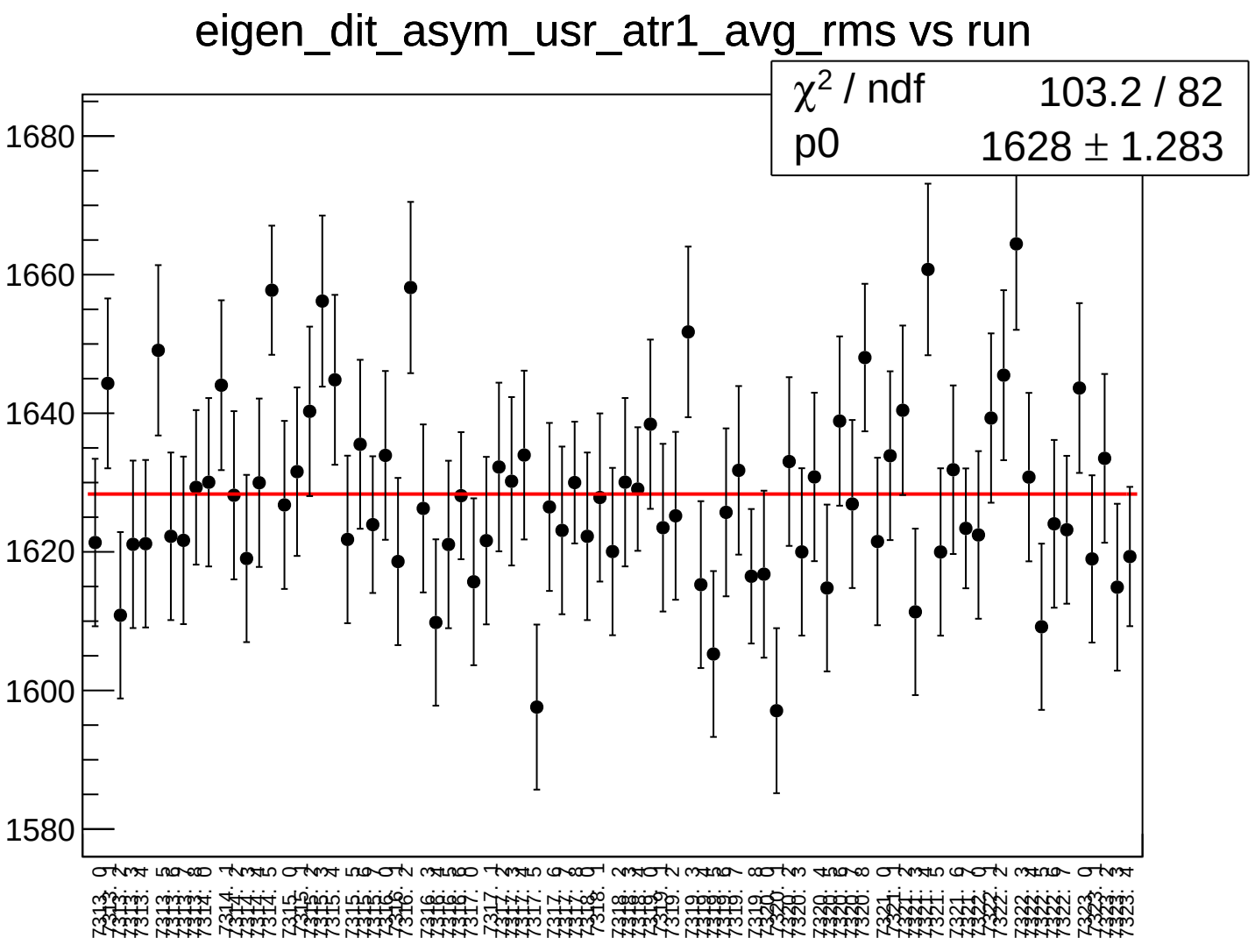

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 85.74 / 82
p0 1761 ± 1565
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1092
Std Dev 0
3
2
1
0
−1

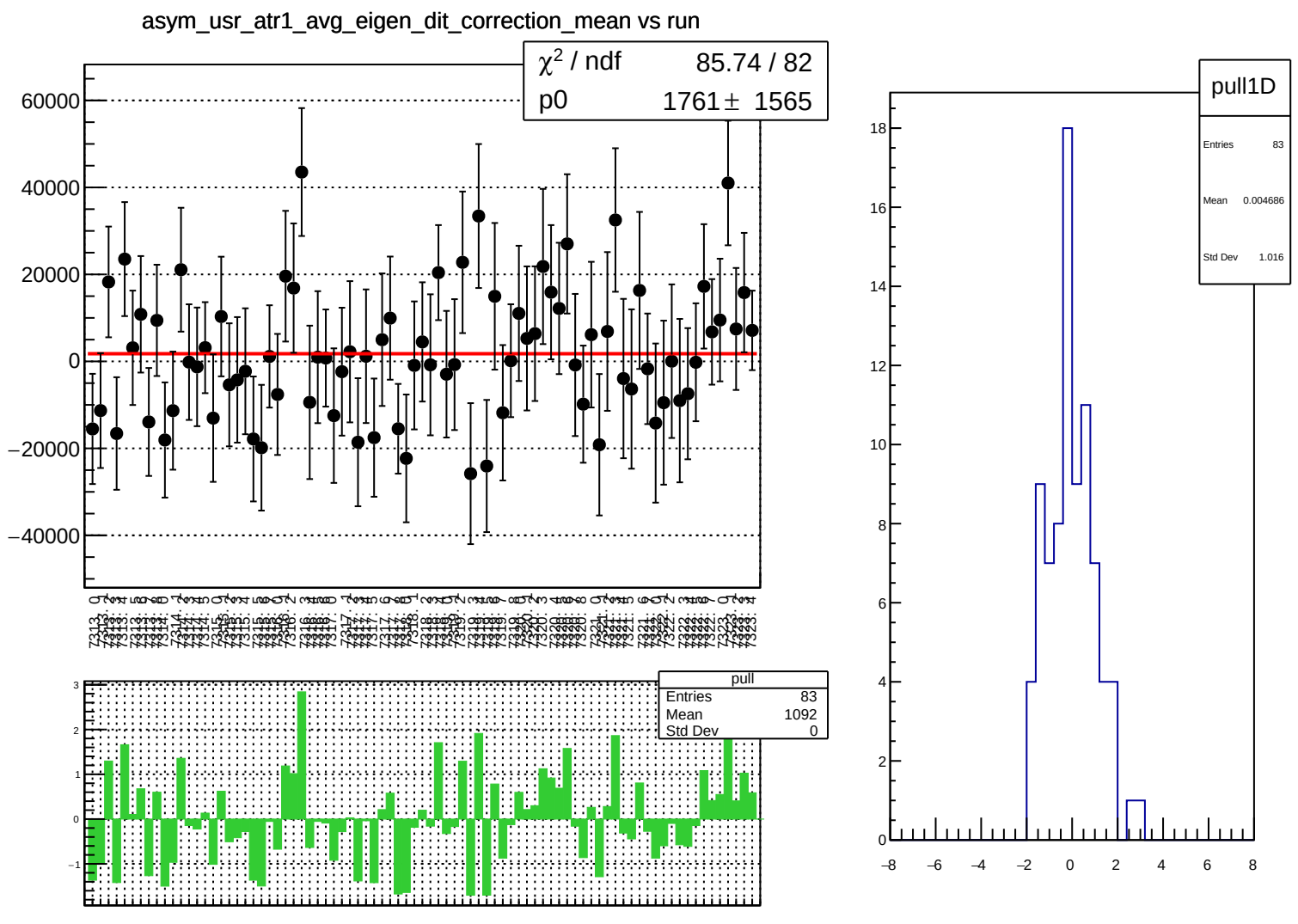

pull1D
Entries 83
Mean 0.004686
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

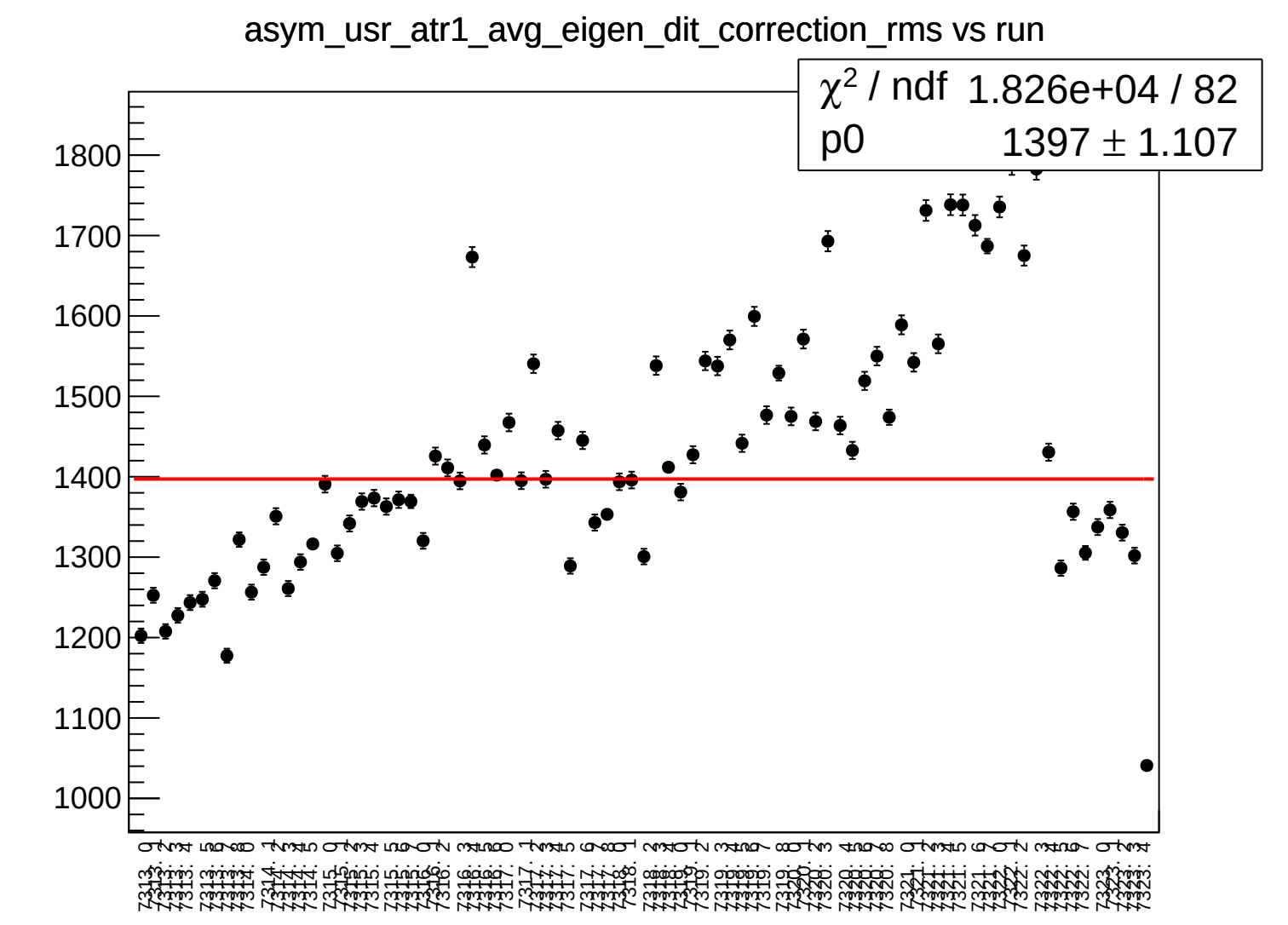

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.826e+04 / 82
p0 1397 ± 1.107
1800
1700
1600
1500
1400
1300
1200
1100
1000

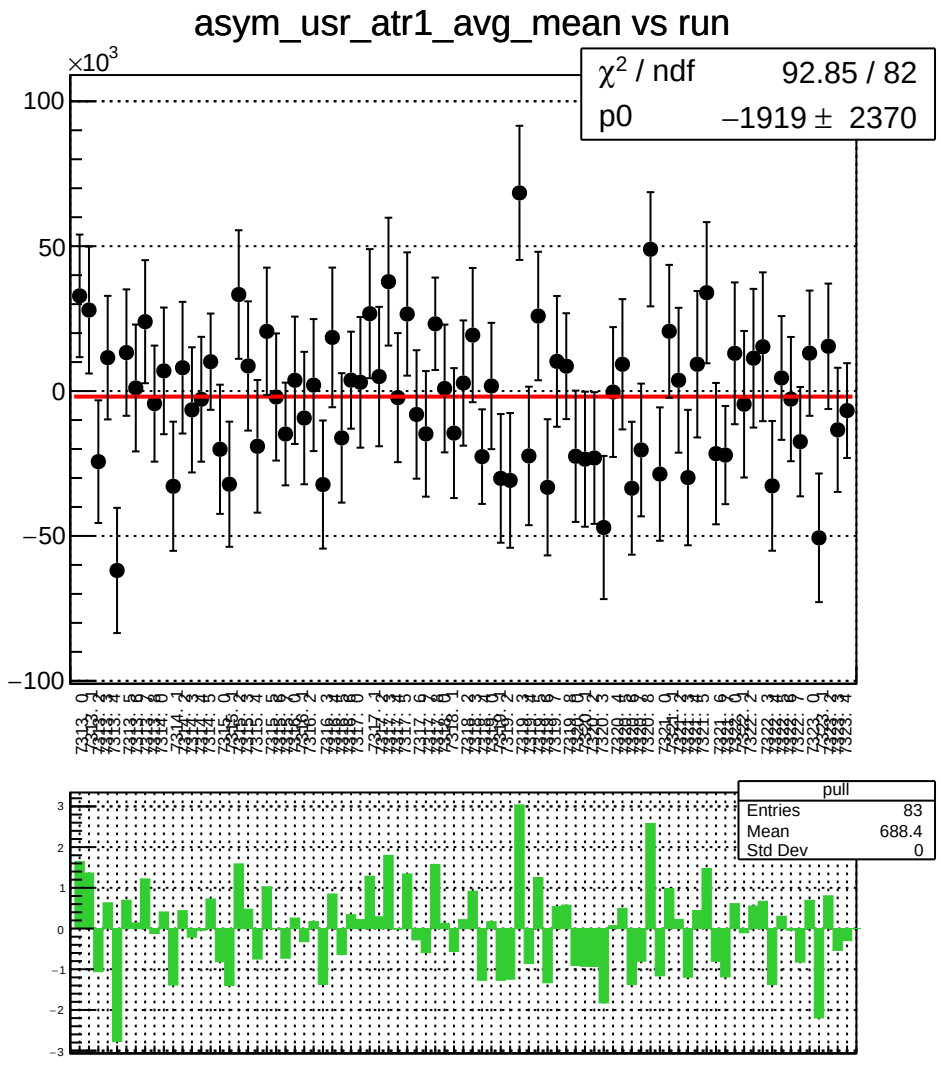

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.21 / 82
p0 −181.4 ± 1814
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 6193
Std Dev 0
2
1
0
−1
−2

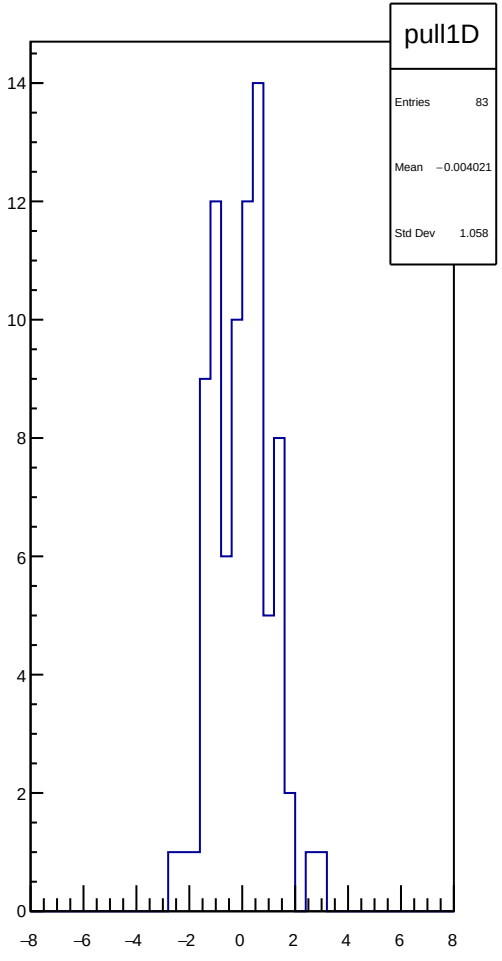

pull1D
Entries 83
Mean 8.51e−05
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

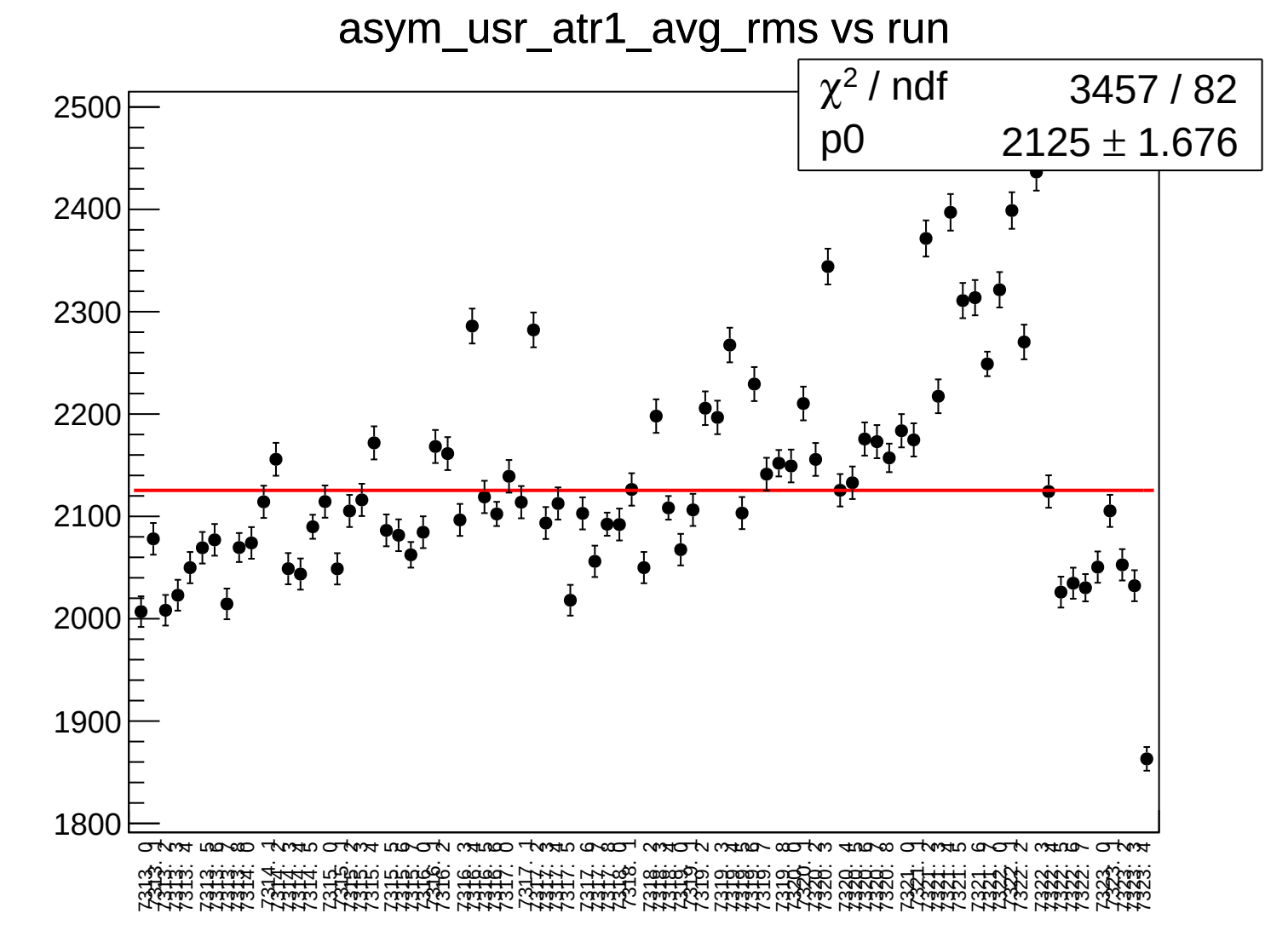

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 103.2 / 82
p0 1628 ± 1.283
1680
1660
1640
1620
1600
1580

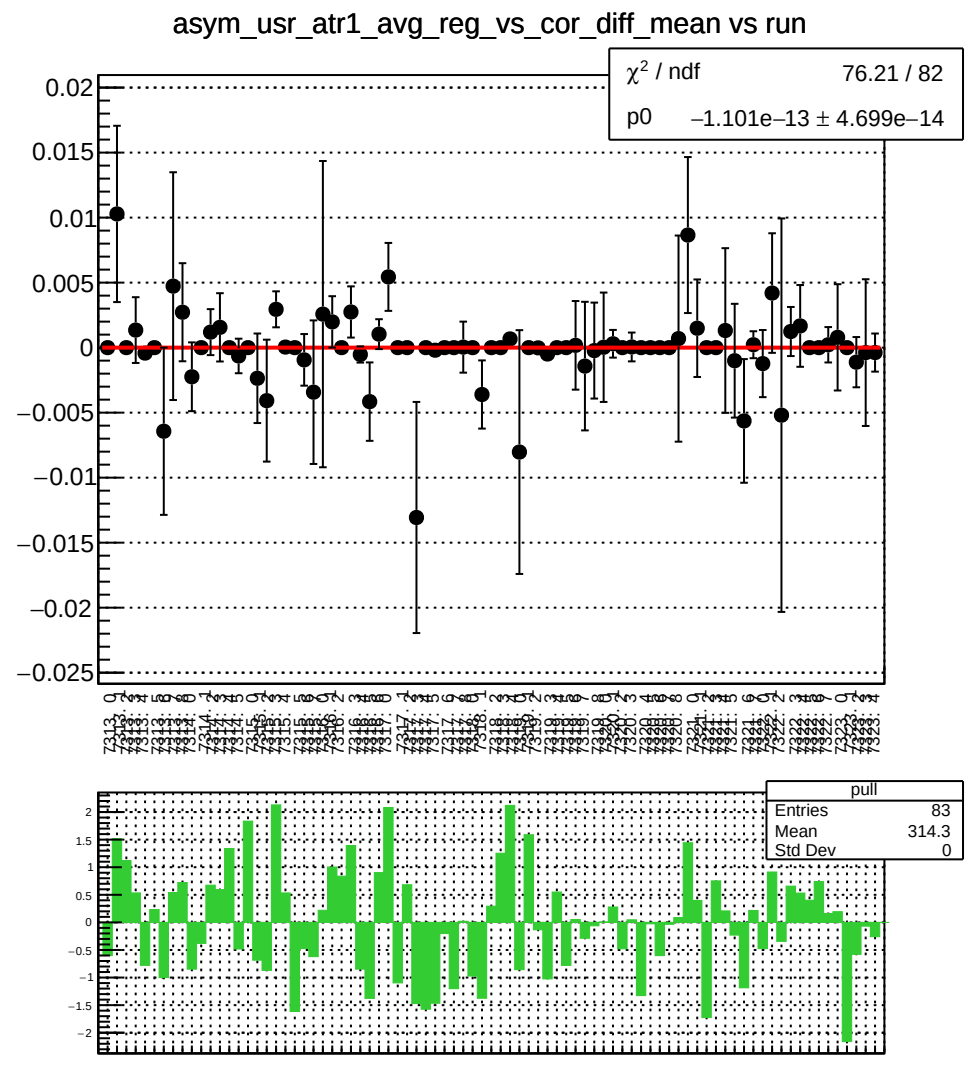

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.74 / 82
p0 1761 ± 1565
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1092
Std Dev 0
pull1D
Entries 83
Mean 0.004686
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

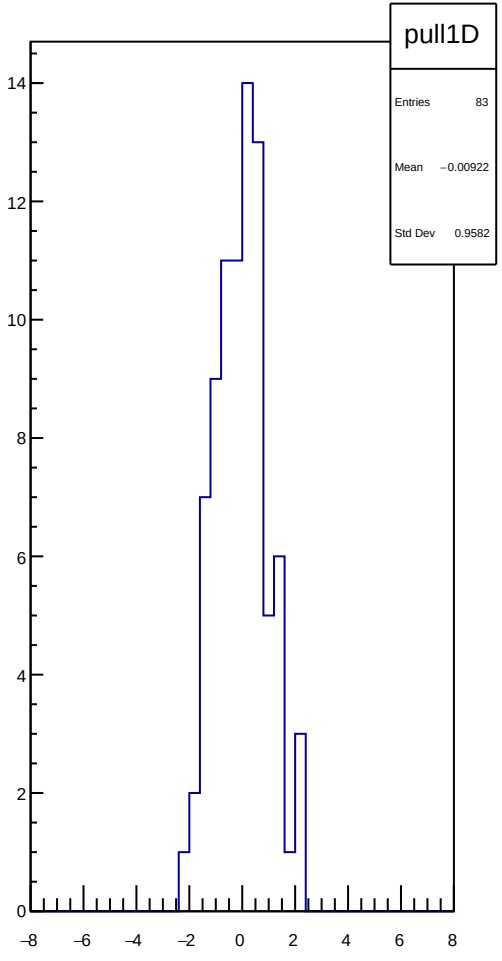

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.826e+04 / 82
p0 1397 ± 1.107
1800
1700
1600
1500
1400
1300
1200
1100
1000

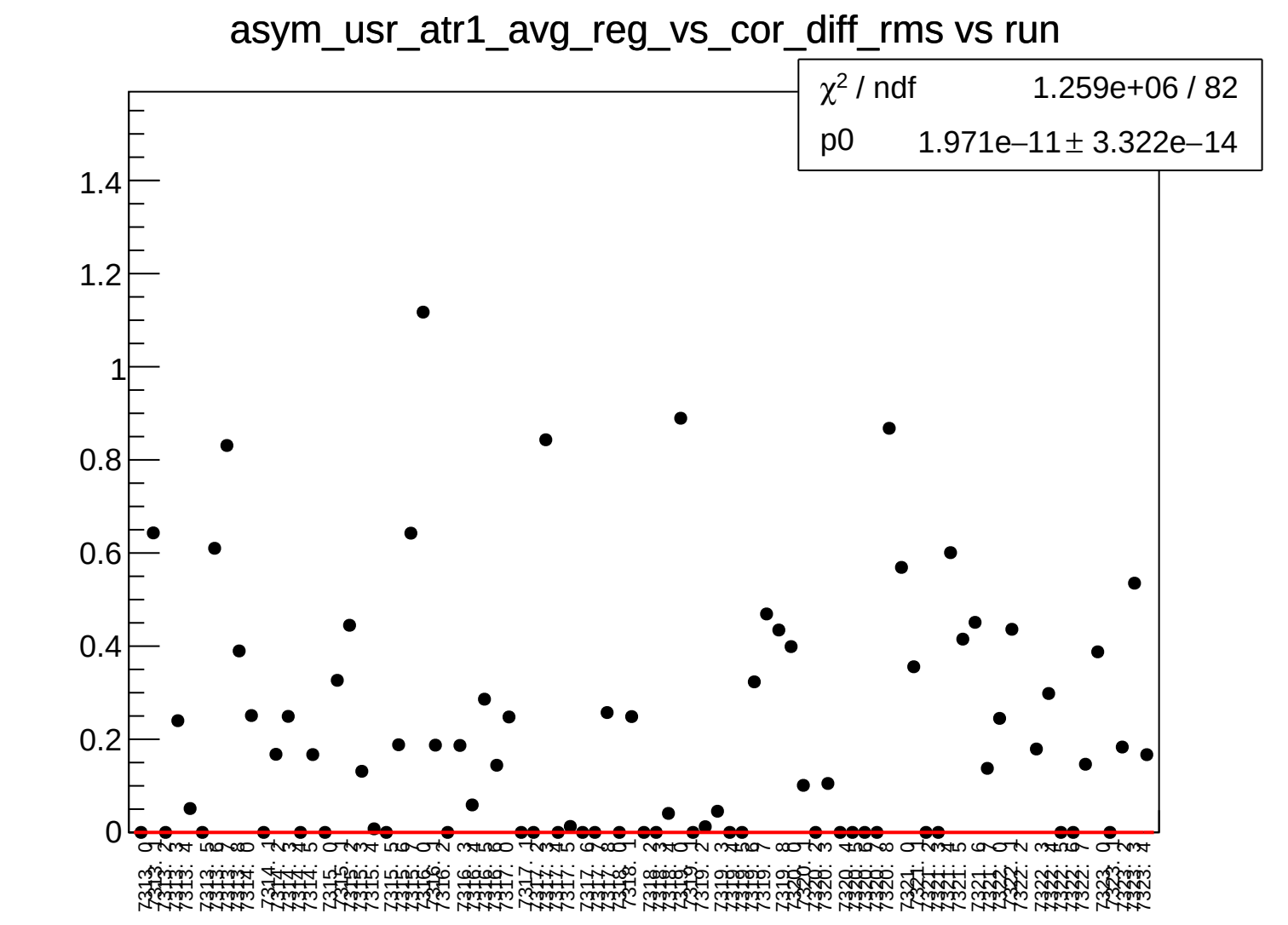

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 92.85 / 82
p0 −1919 ± 2370
100
50
0
−50
−100
pull
Entries 83
Mean 688.4
Std Dev 0
3
2
1
0
−1
−2
−3

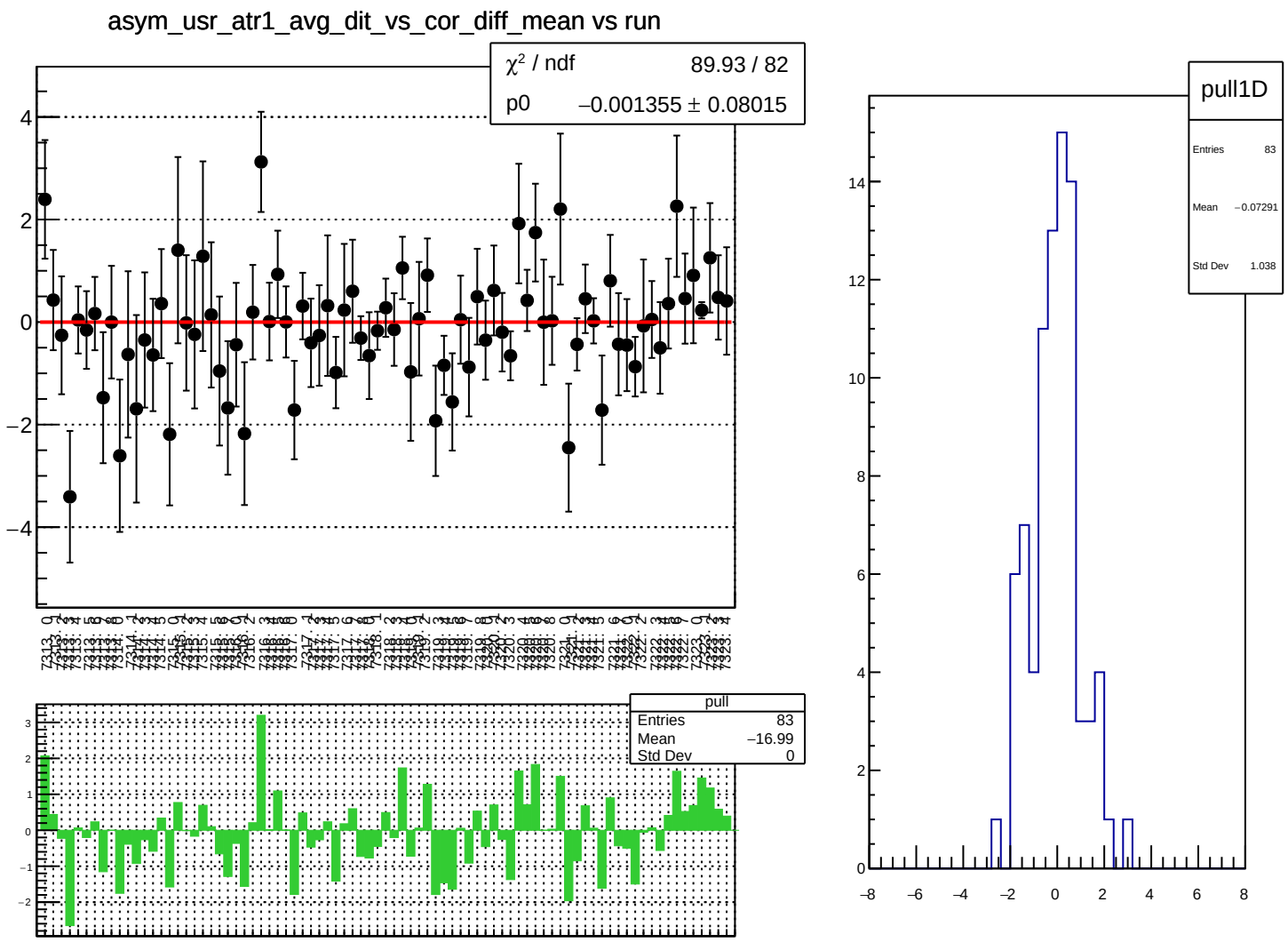

pull1D
Entries 83
Mean −0.004021
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

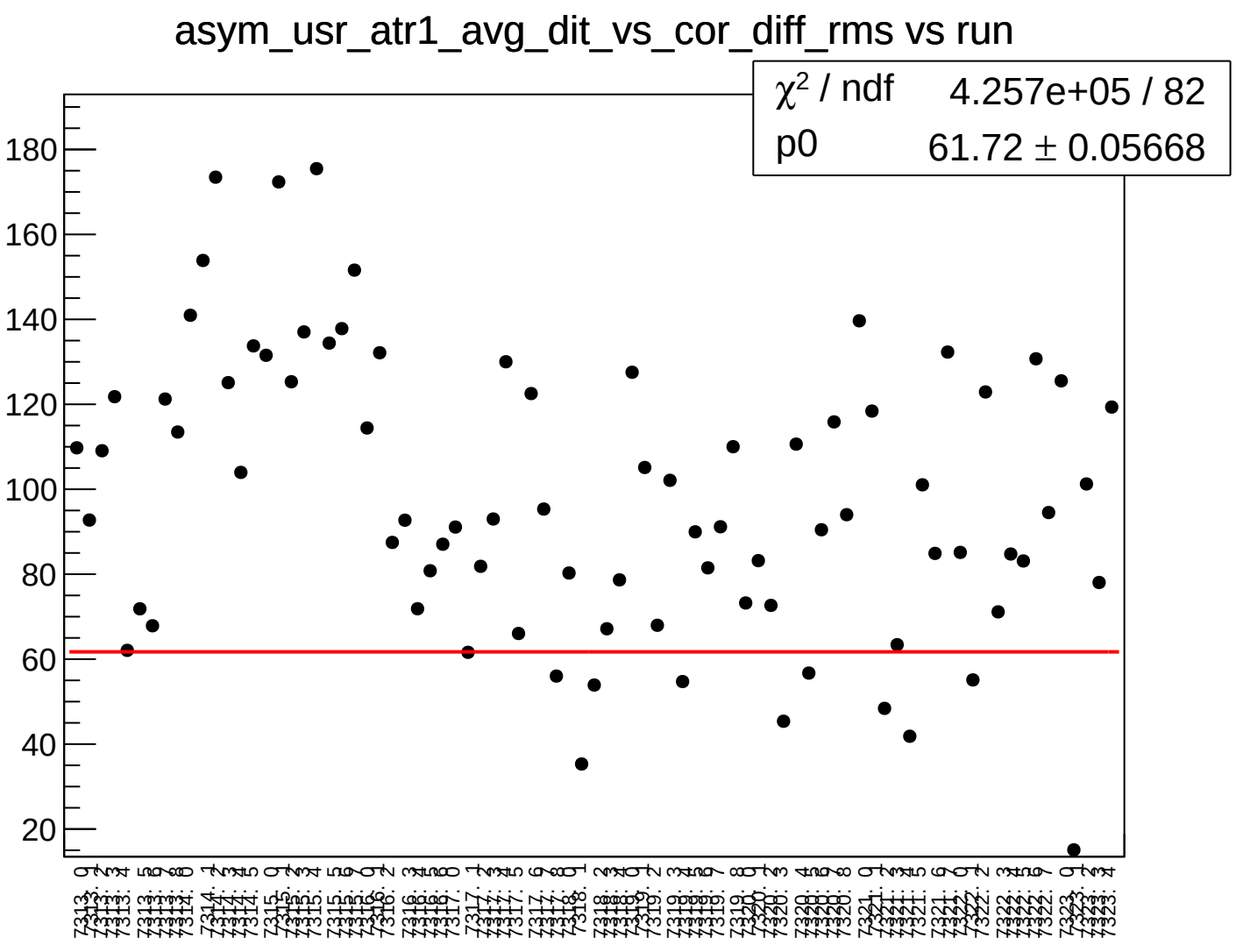

asym_usr_atr1_avg_rms vs run
χ² / ndf 3457 / 82
p0 2125 ± 1.676
2500
2400
2300
2200
2100
2000
1900
1800

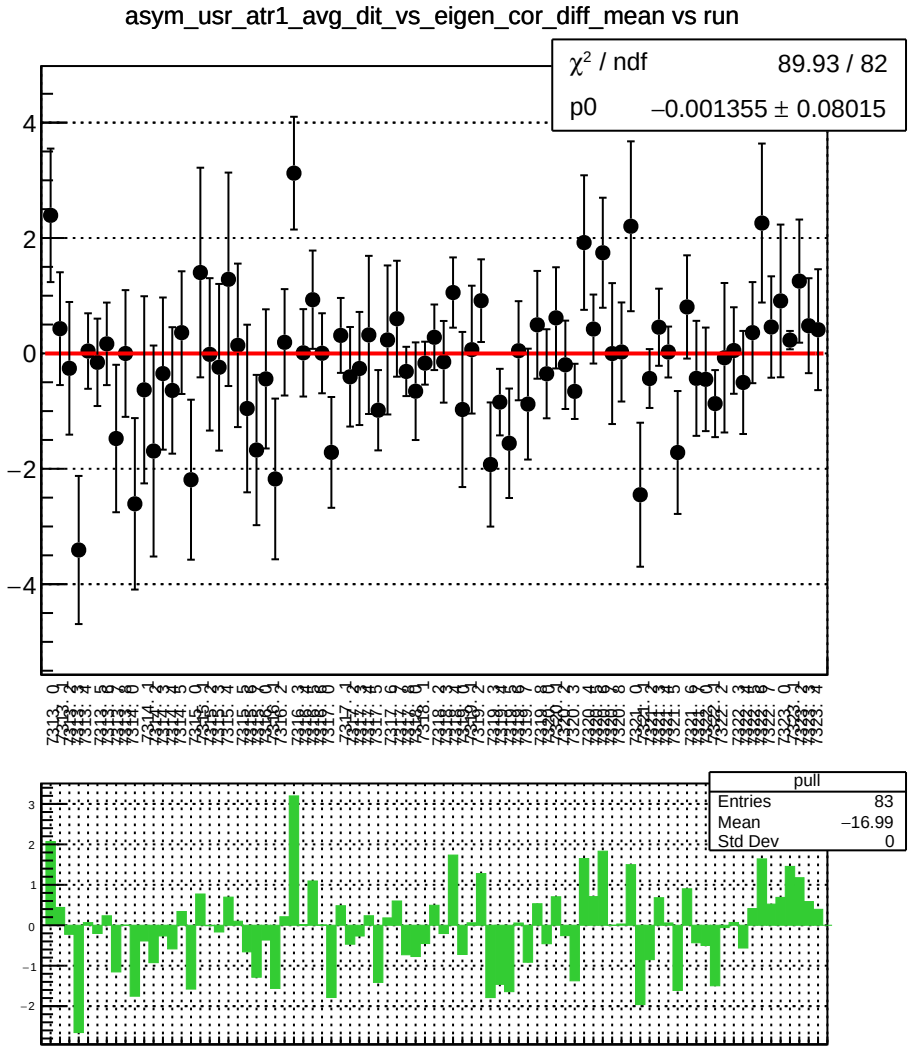

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.21 / 82
p0 −1.101e−13 ± 4.699e−14
pull
Entries 83
Mean 314.3
Std Dev 0

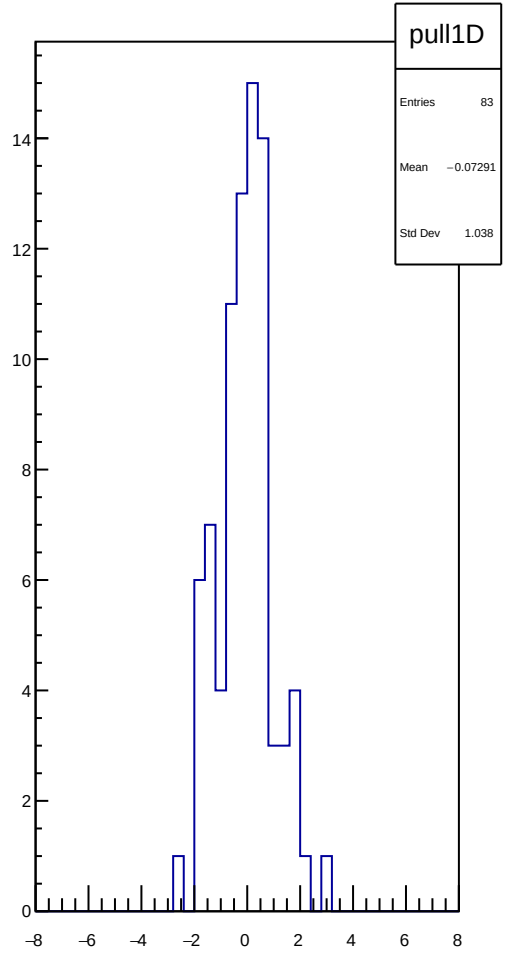

pull1D
Entries 83
Mean −0.00922
Std Dev 0.9582

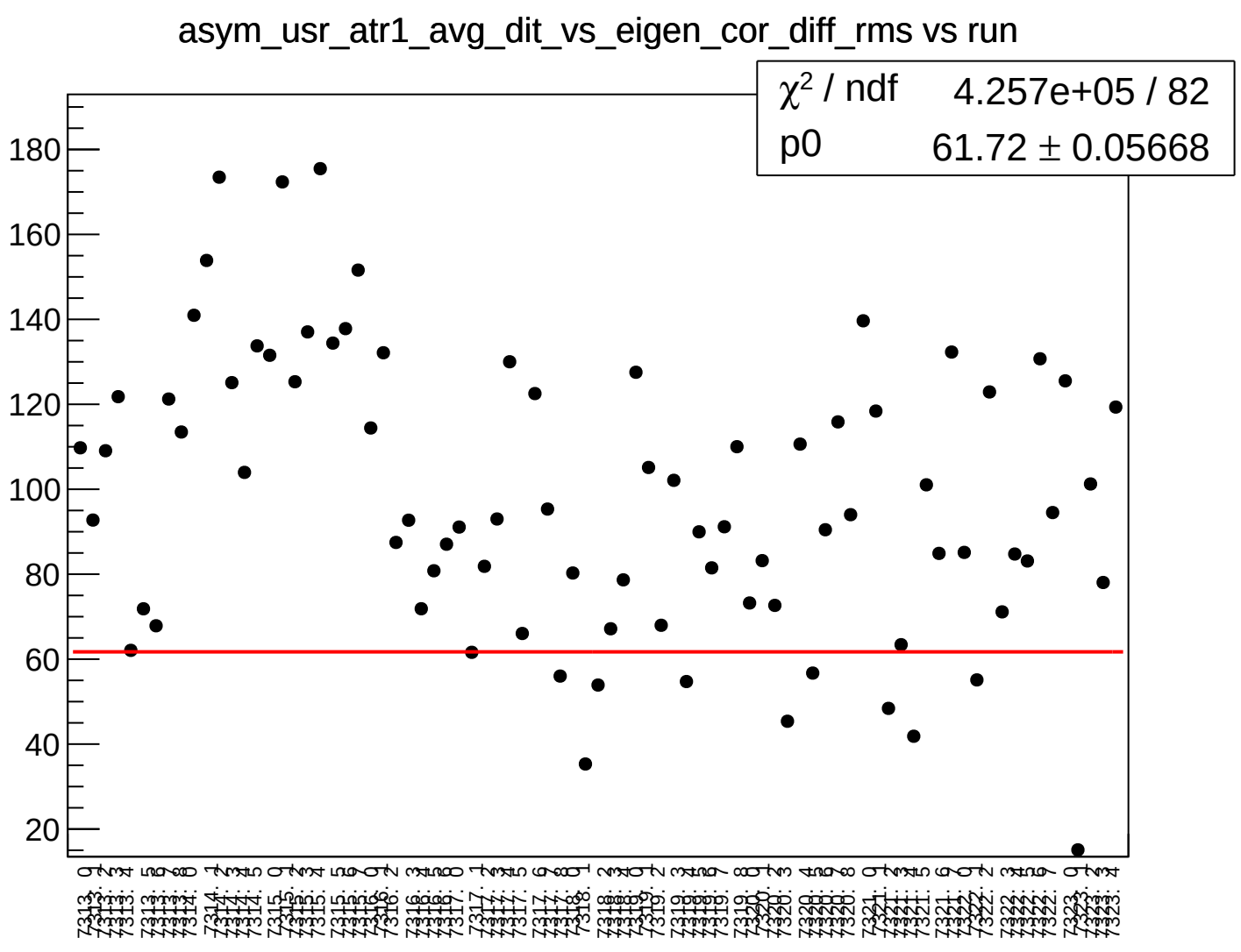

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.259e+06 / 82
p0 1.971e−11 ± 3.322e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

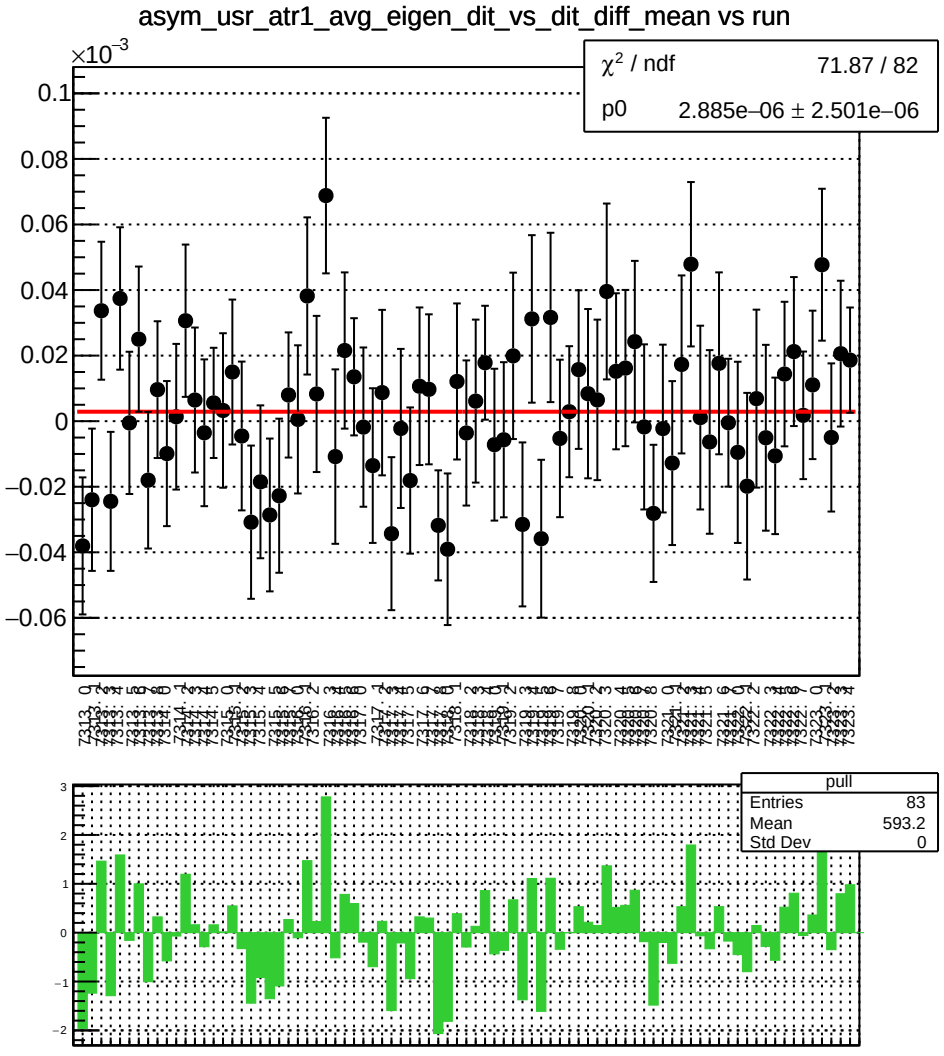

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 82
p0 −0.001355 ± 0.08015
pull
Entries 83
Mean −16.99
Std Dev 0
pull1D
Entries 83
Mean −0.07291
Std Dev 1.038

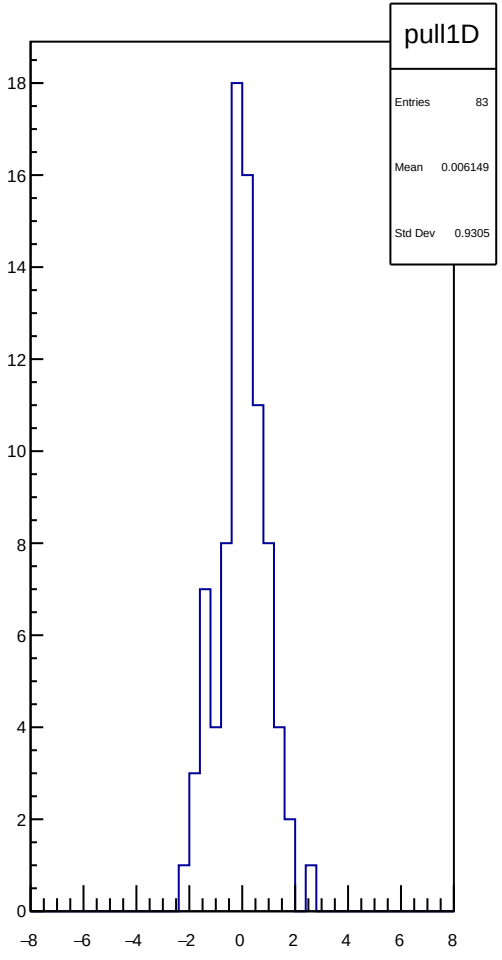

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.257e+05 / 82
p0 61.72 ± 0.05668
180
160
140
120
100
80
60
40
20

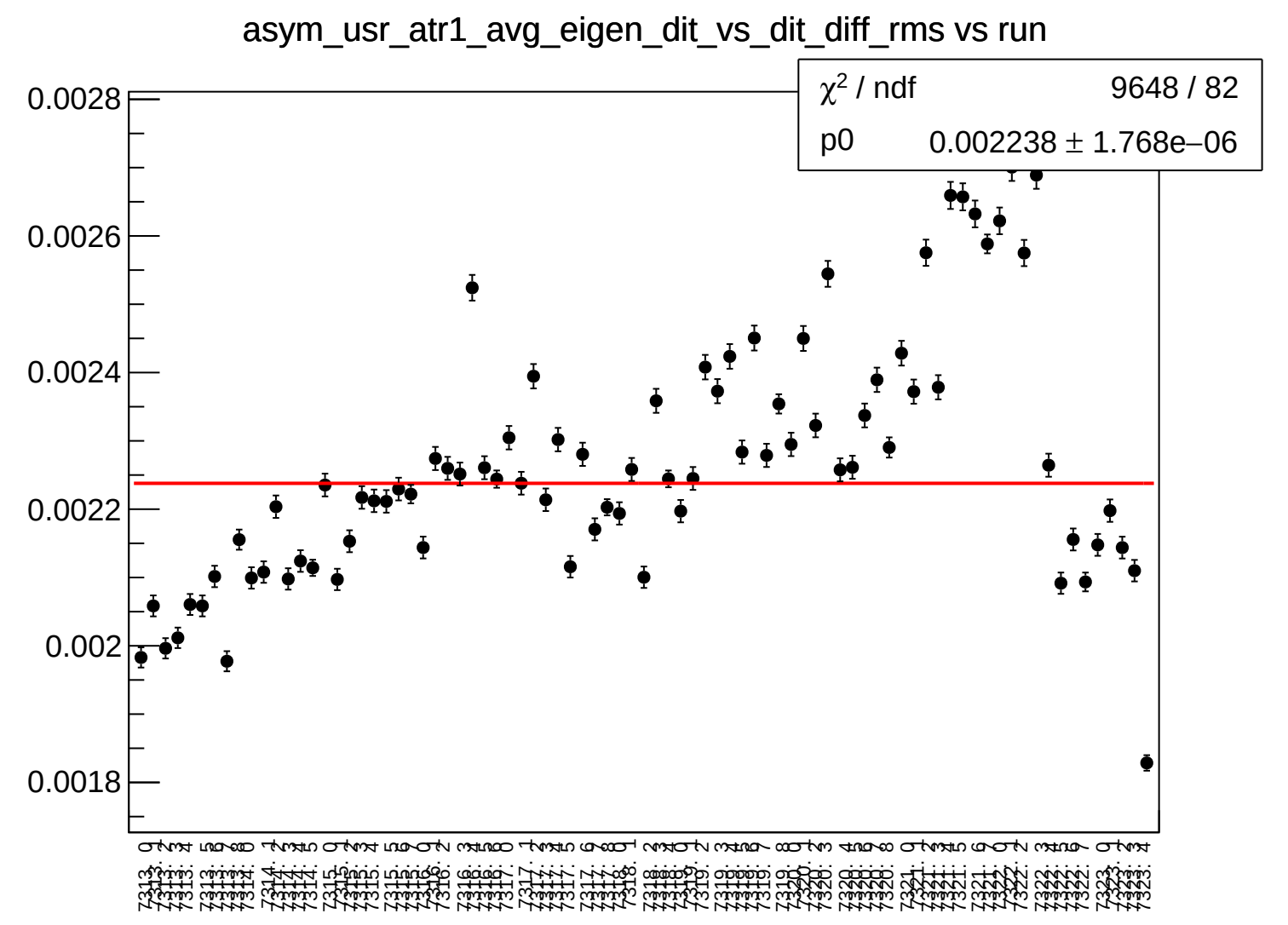

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.93 / 82
p0 −0.001355 ± 0.08015
pull
Entries 83
Mean −16.99
Std Dev 0

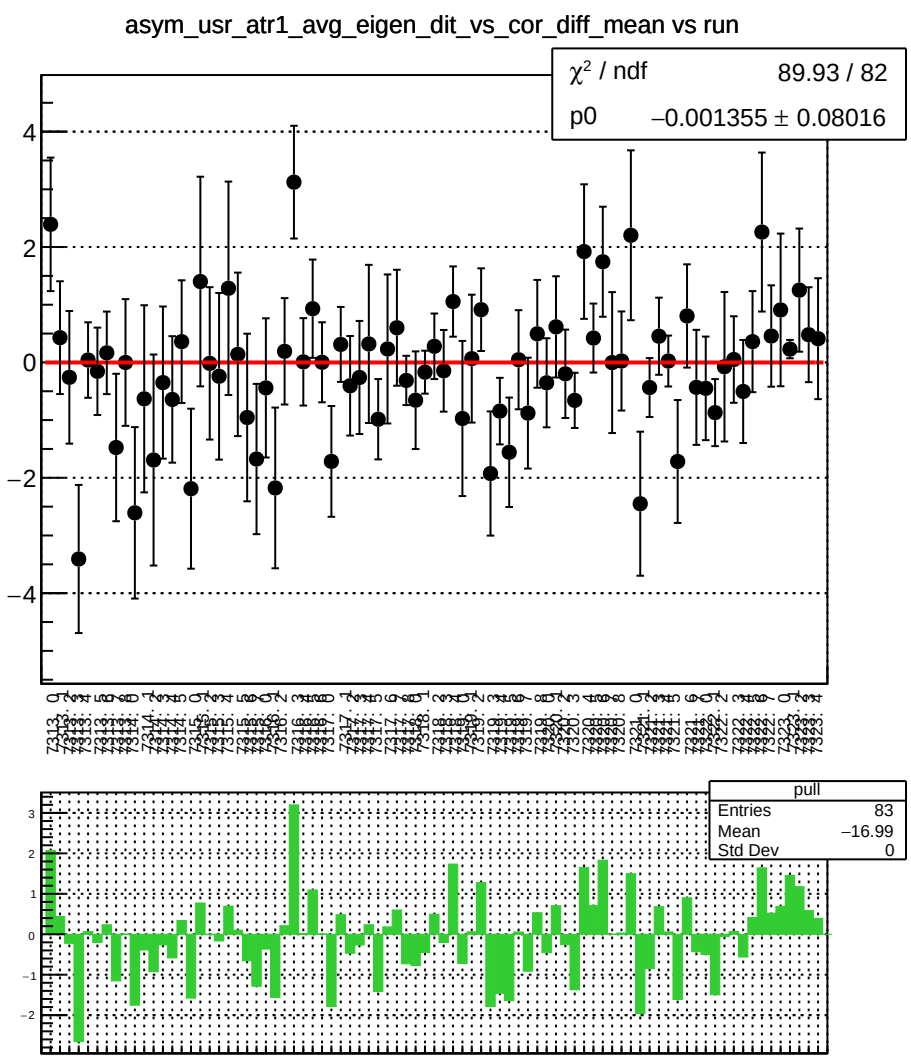

pull1D
Entries 83
Mean −0.07291
Std Dev 1.038

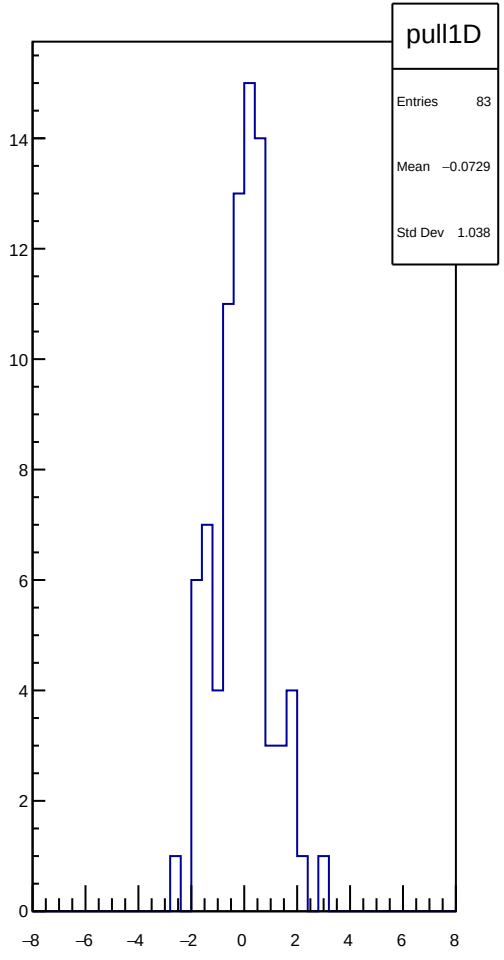

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.257e+05 / 82
p0 61.72 ± 0.05668
180
160
140
120
100
80
60
40
20

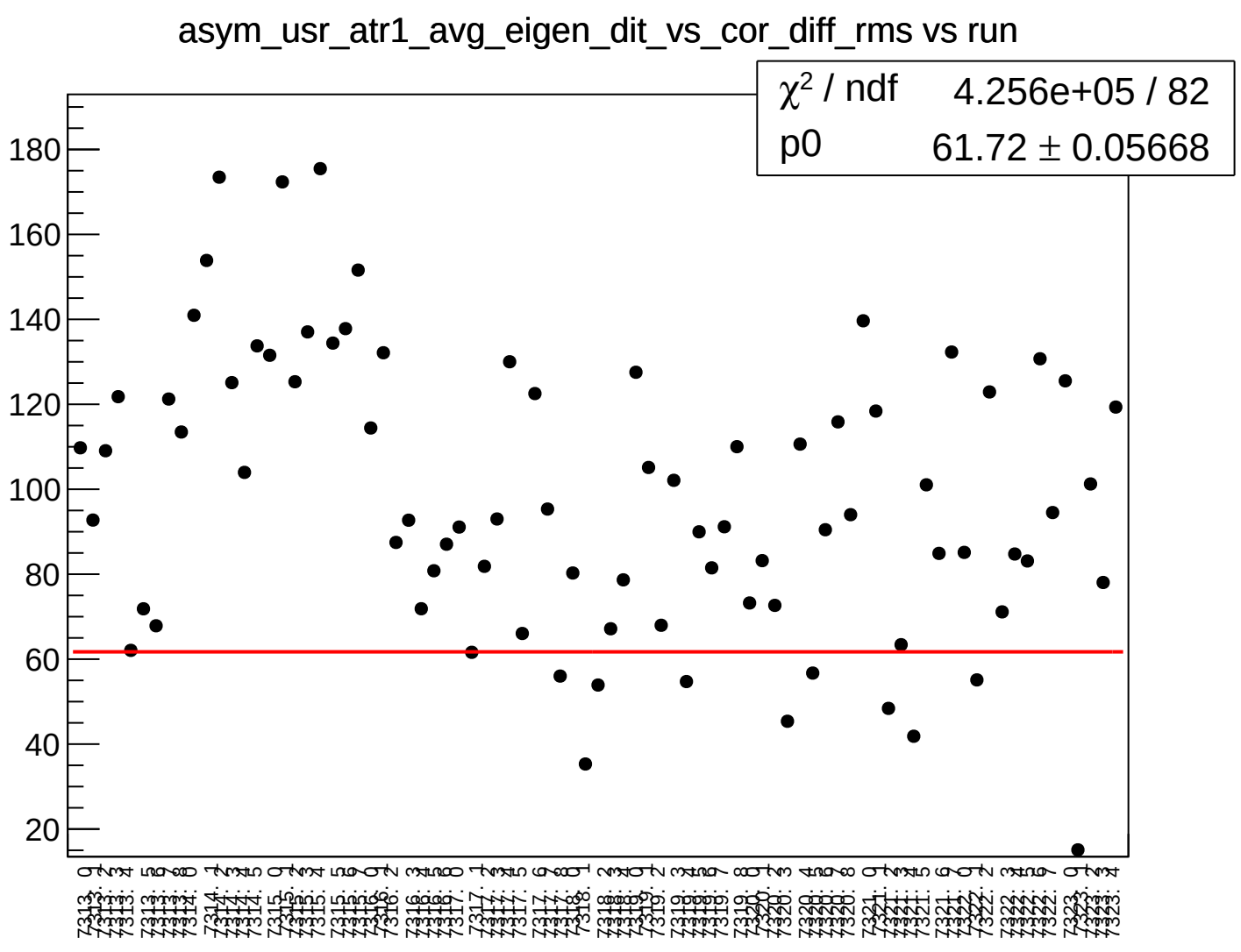

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.87 / 82
p0 2.885e−06 ± 2.501e−06
pull
Entries 83
Mean 593.2
Std Dev 0

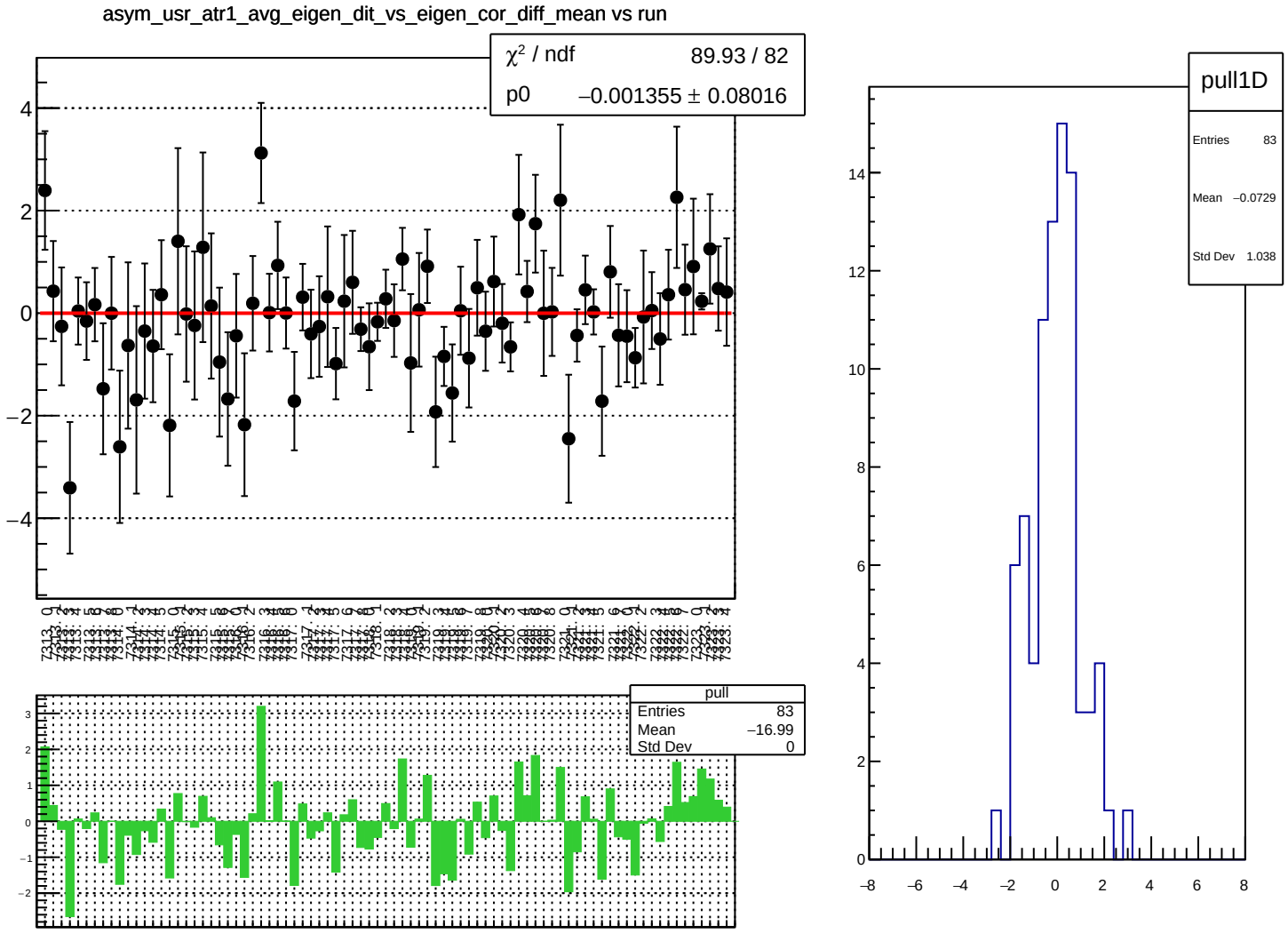

pull1D
Entries 83
Mean 0.006149
Std Dev 0.9305

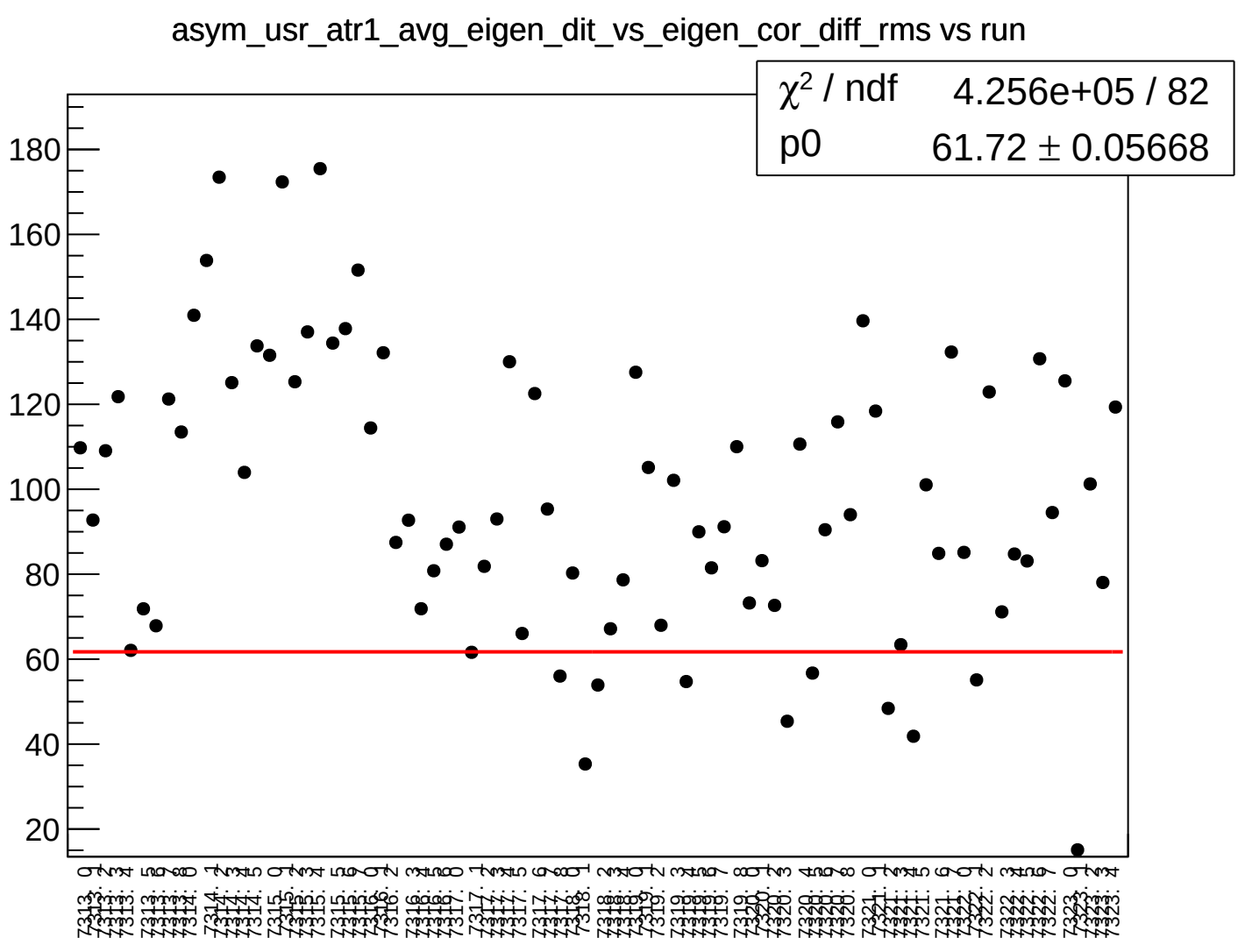

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9648 / 82
p0 0.002238 ± 1.768e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

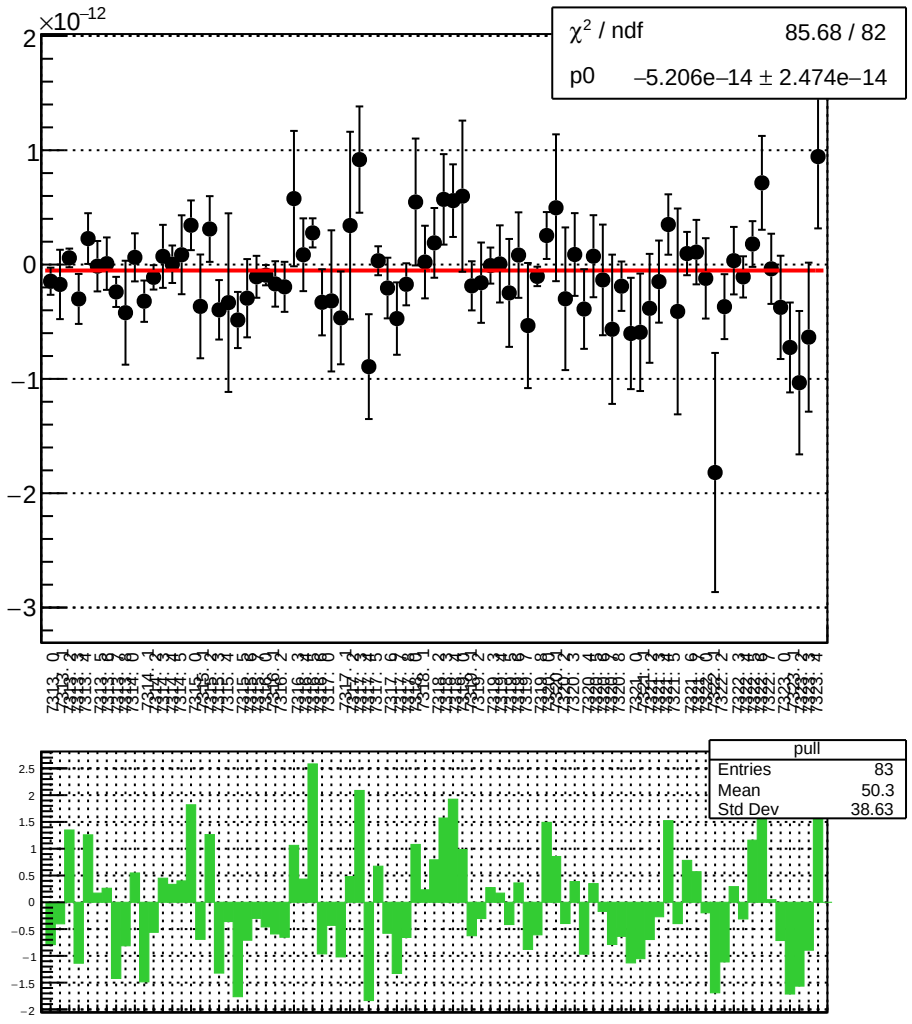

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 82
p0 −0.001355 ± 0.08016
pull
Entries 83
Mean −16.99
Std Dev 0

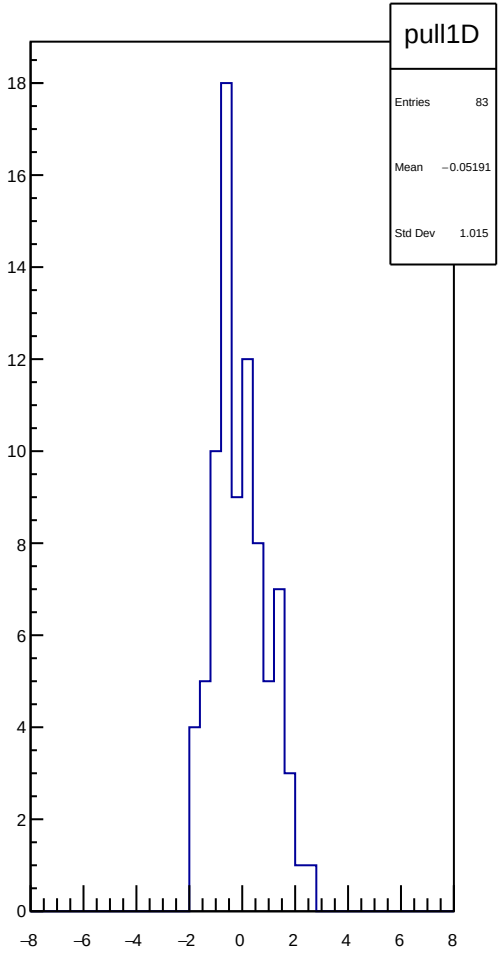

pull1D
Entries 83
Mean −0.0729
Std Dev 1.038

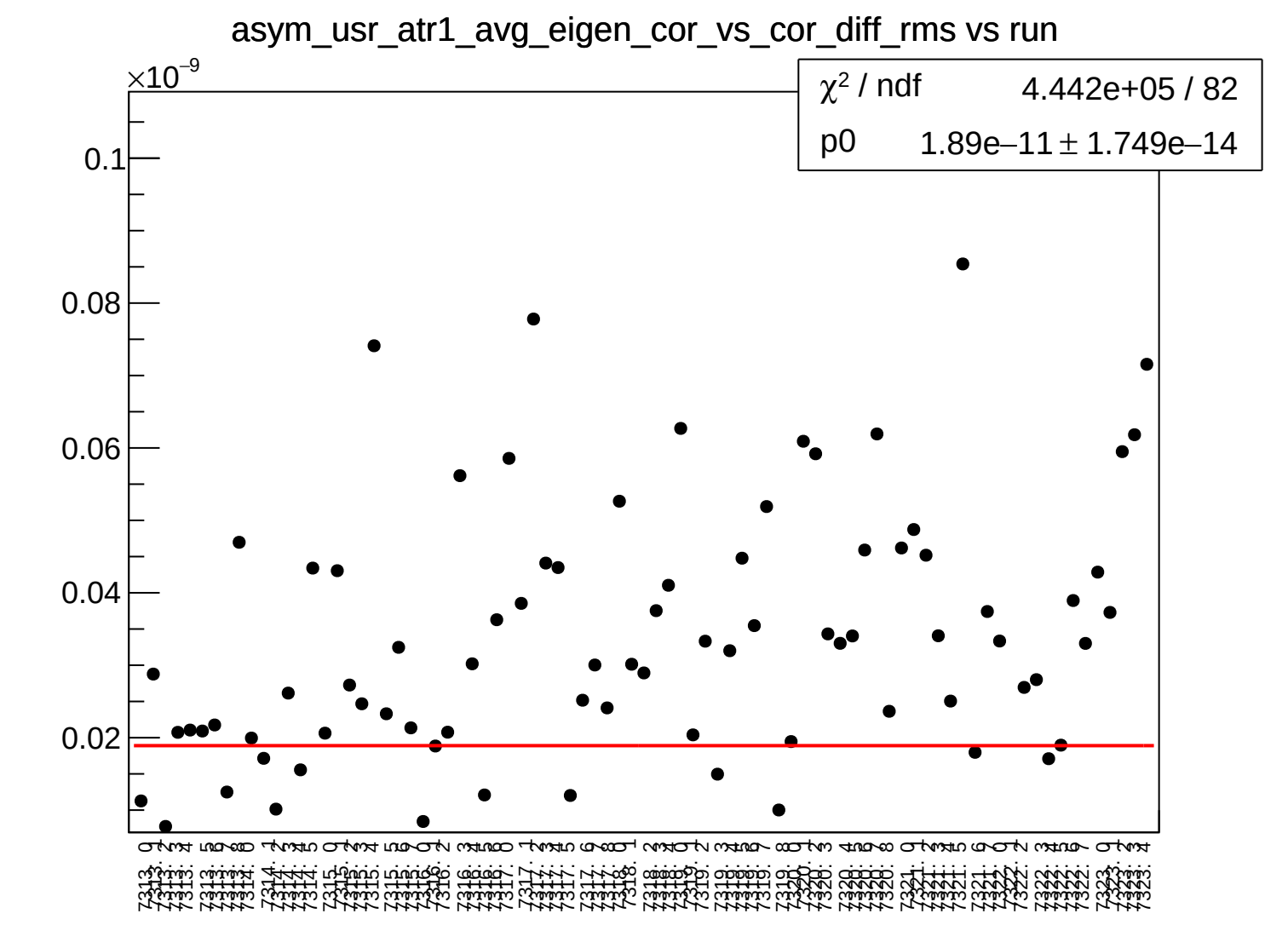

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.256e+05 / 82
p0 61.72 ± 0.05668
180
160
140
120
100
80
60
40
20

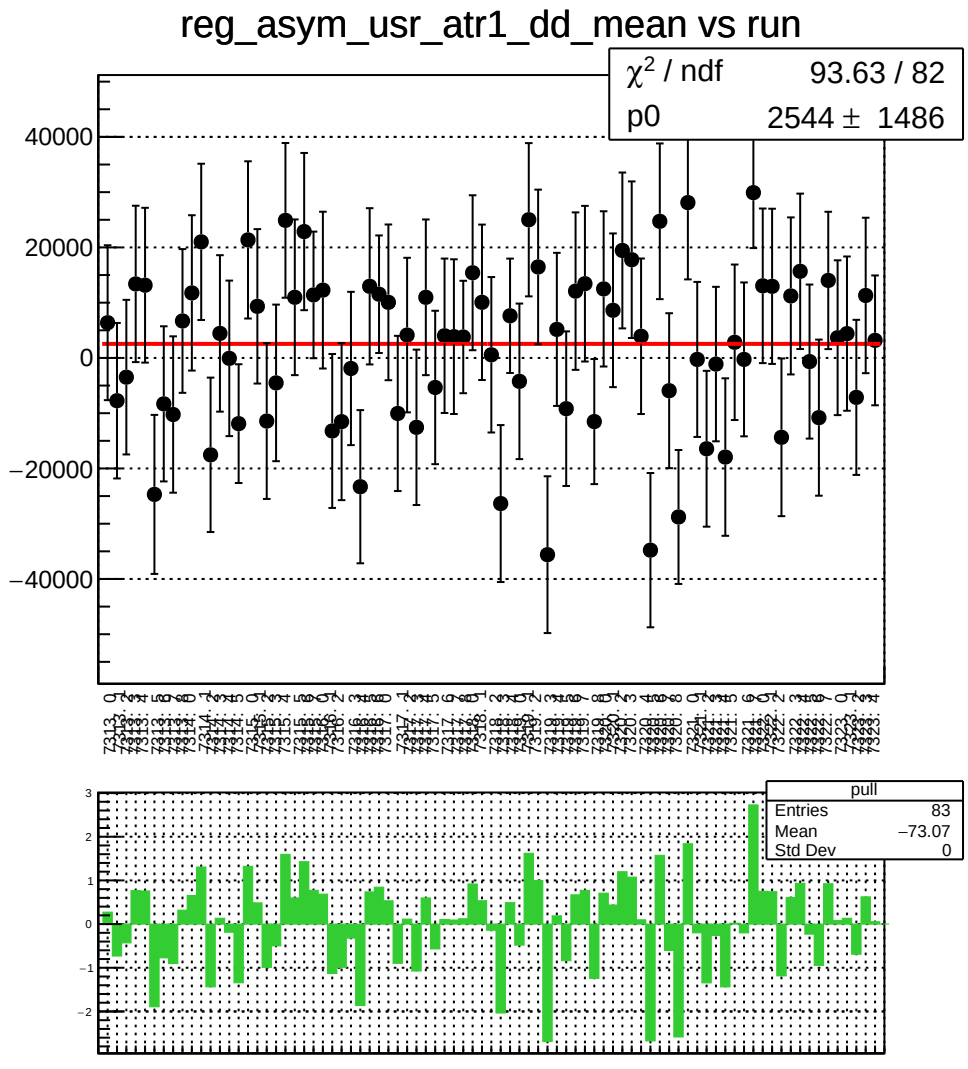

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.93 / 82
p0 −0.001355 ± 0.08016
pull
Entries 83
Mean −16.99
Std Dev 0
pull1D
Entries 83
Mean −0.0729
Std Dev 1.038

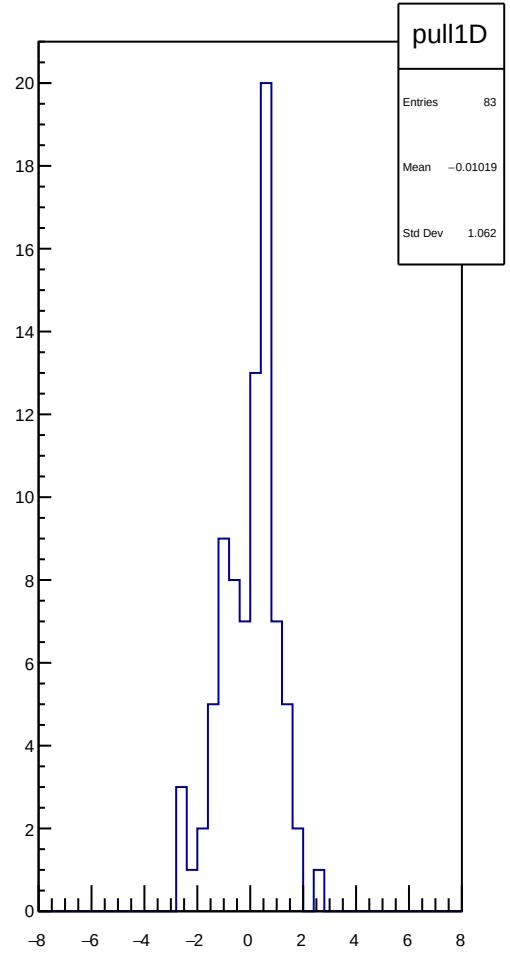

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.256e+05 / 82
p0 61.72 ± 0.05668
180
160
140
120
100
80
60
40
20

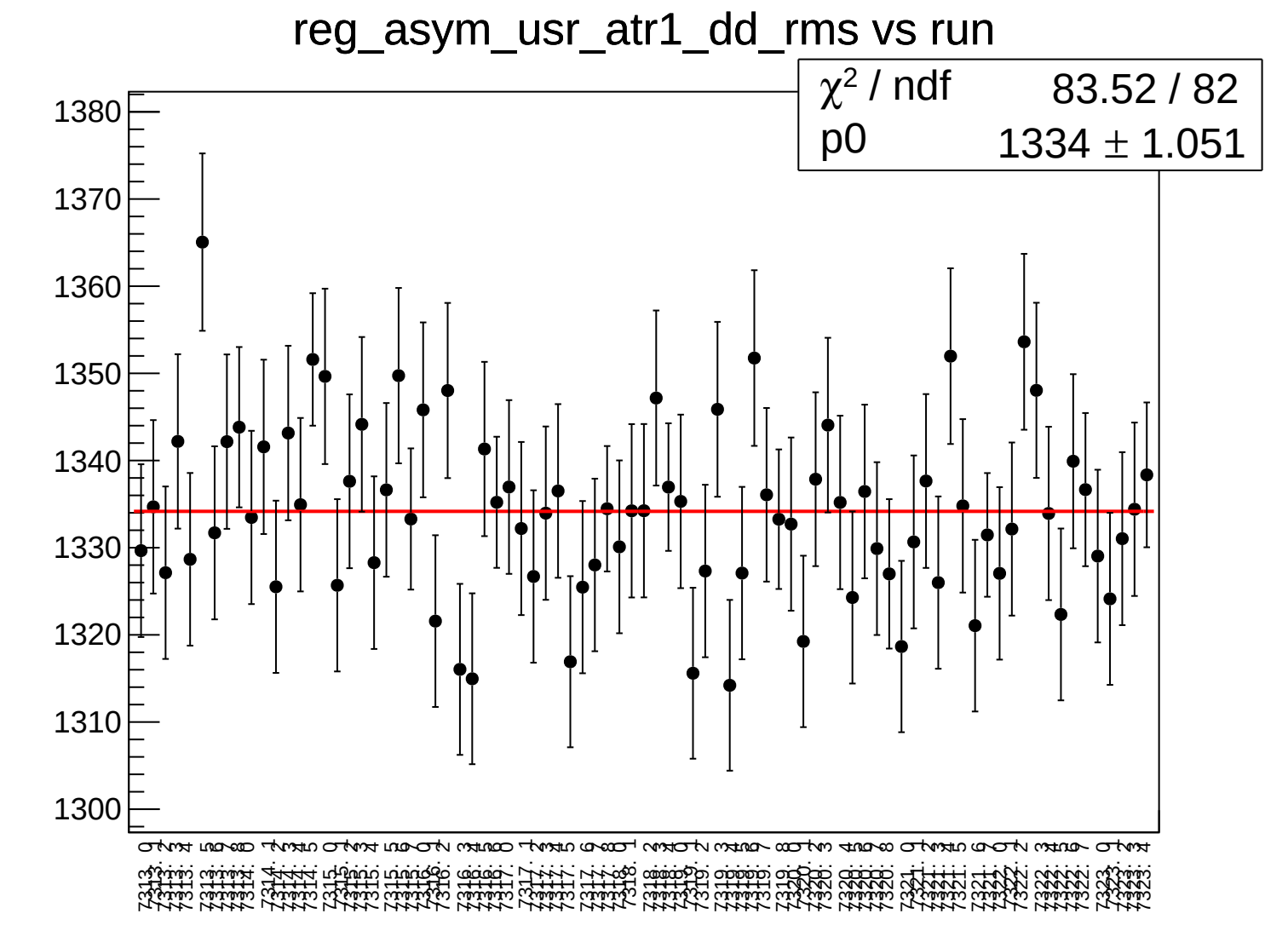

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.68 / 82
p0 −5.206e−14 ± 2.474e−14
pull
Entries 83
Mean 50.3
Std Dev 38.63

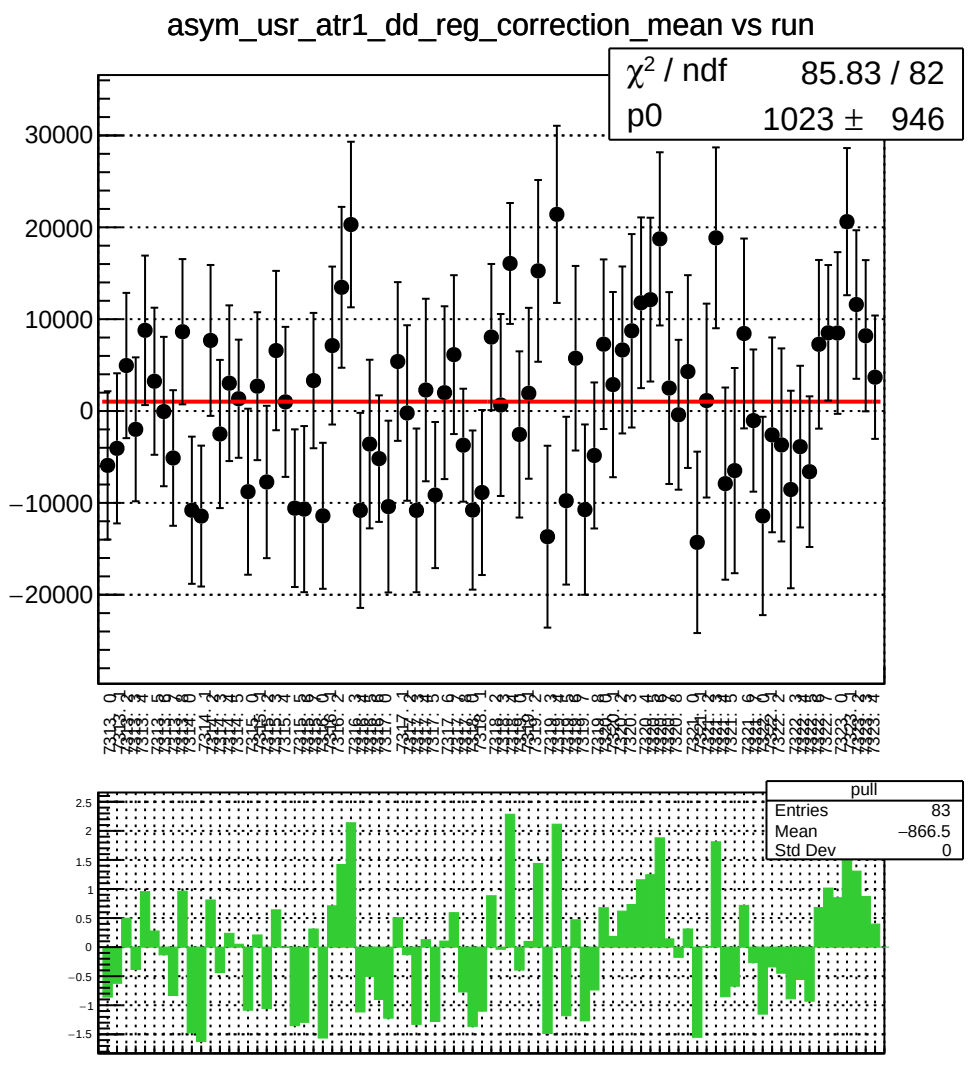

pull1D
Entries 83
Mean −0.05191
Std Dev 1.015

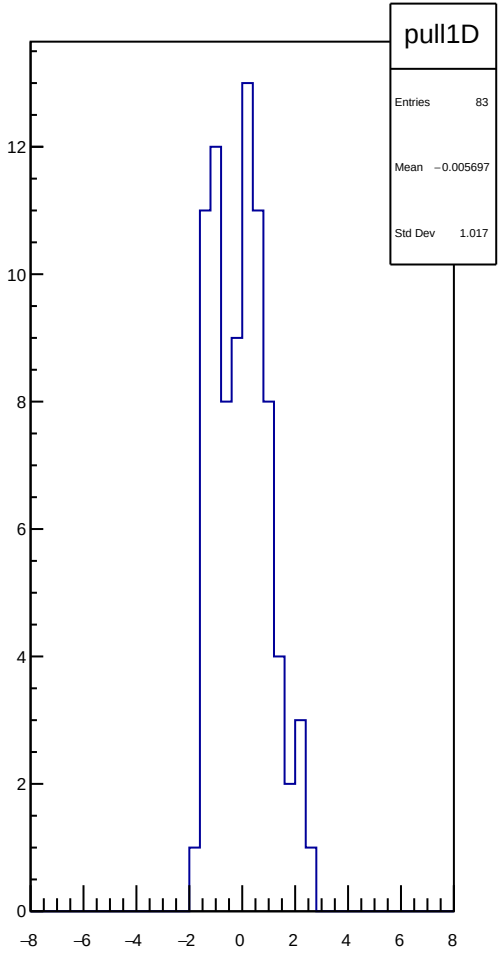

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.442e+05 / 82
p0 1.89e−11 ± 1.749e−14
0.1
0.08
0.06
0.04
0.02

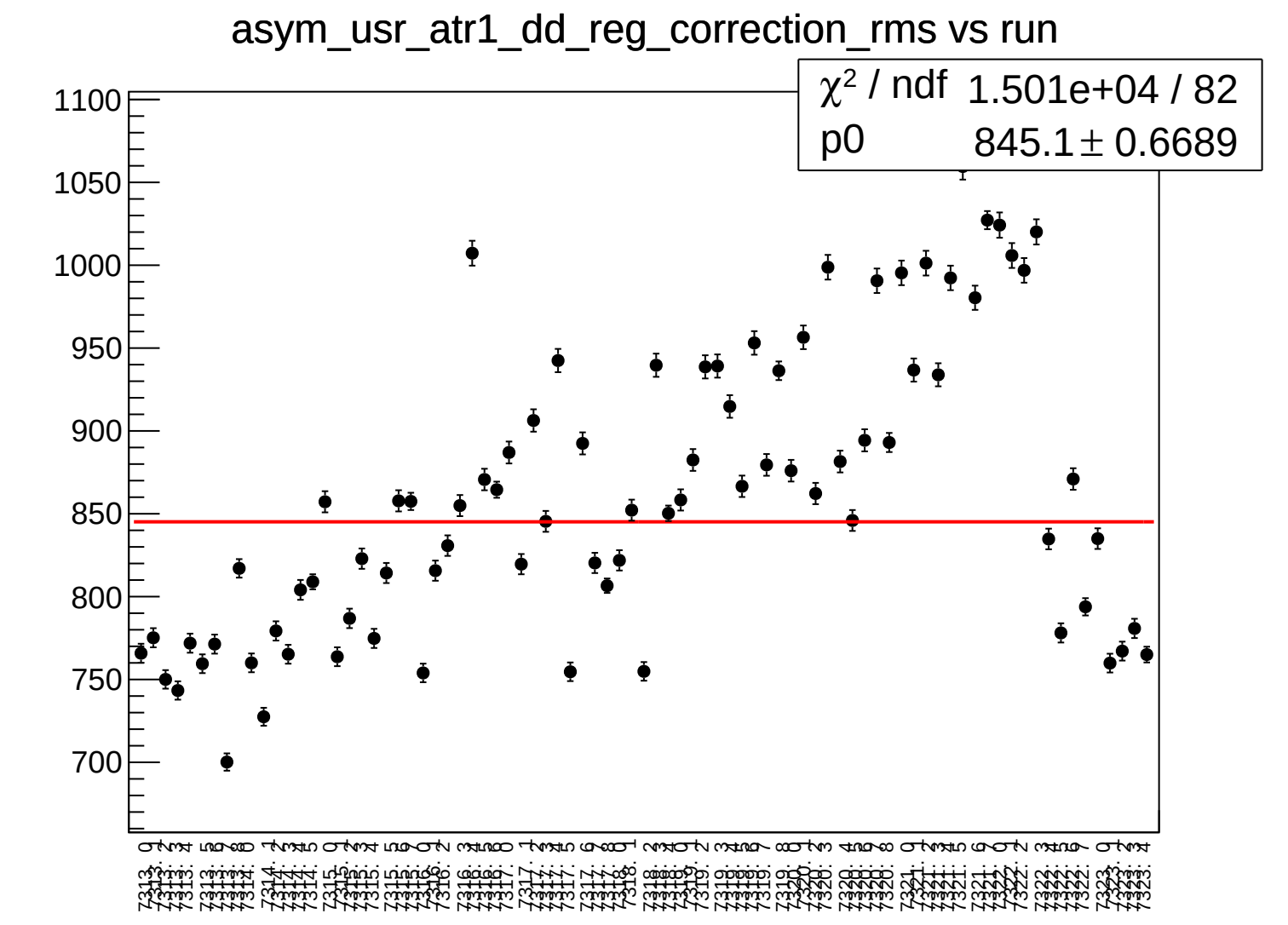

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.63 / 82
p0 2544 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −73.07
Std Dev 0
3
2
1
0
−1
−2

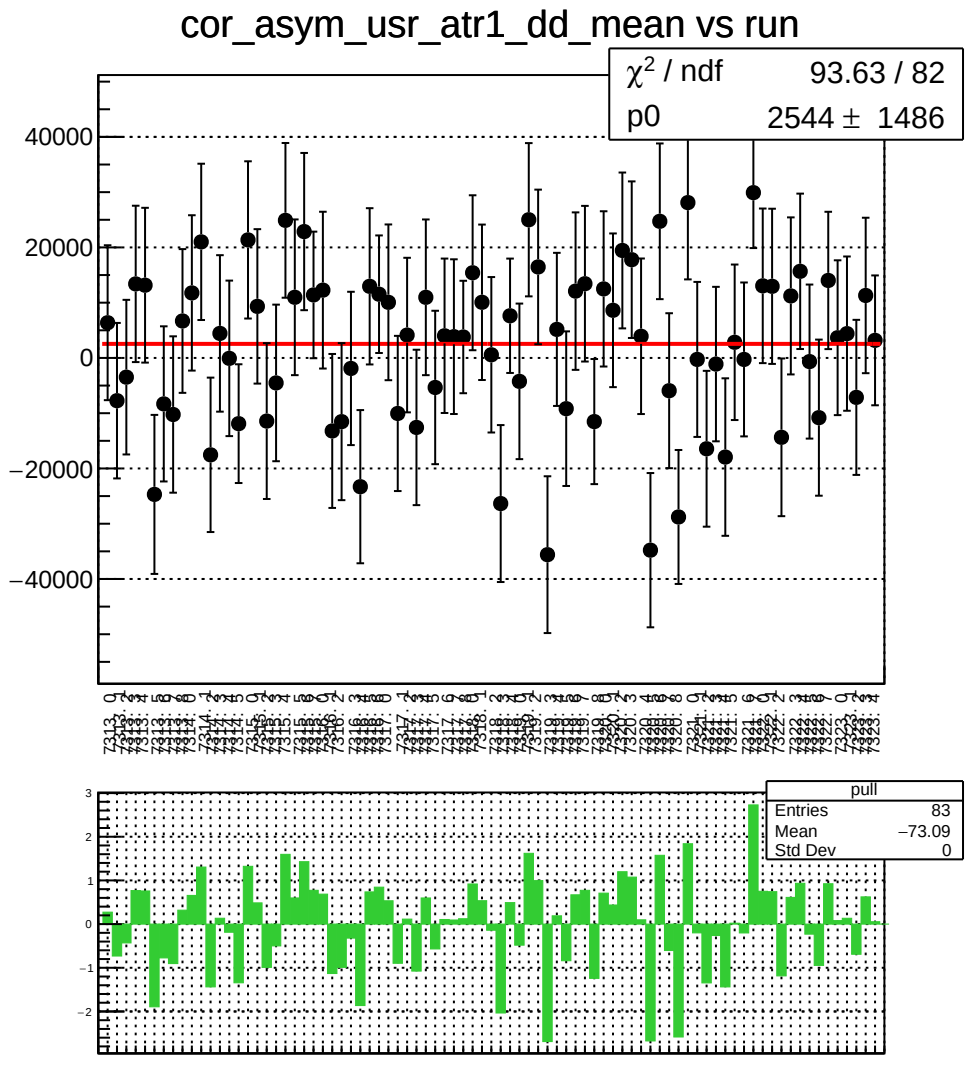

pull1D
Entries 83
Mean −0.01019
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

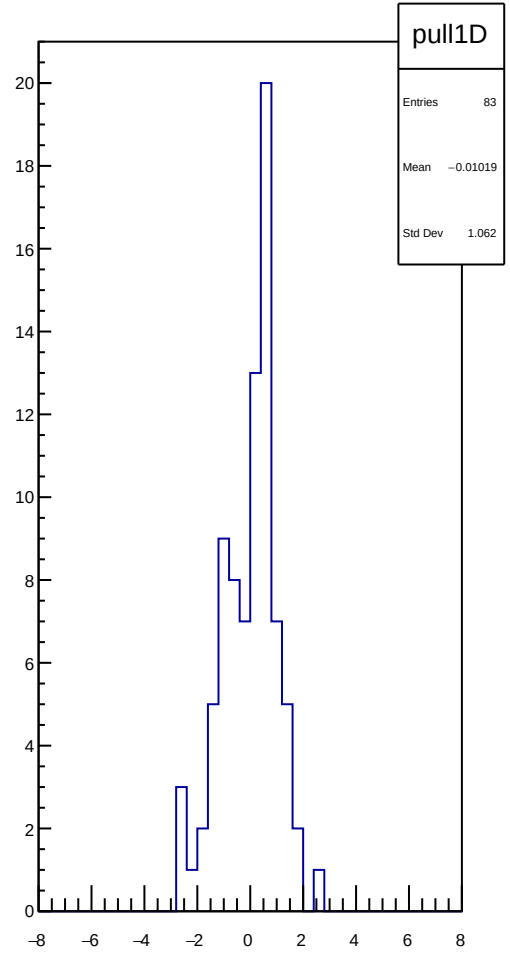

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 83.52 / 82
p0 1334 ± 1.051
1380
1370
1360
1350
1340
1330
1320
1310
1300

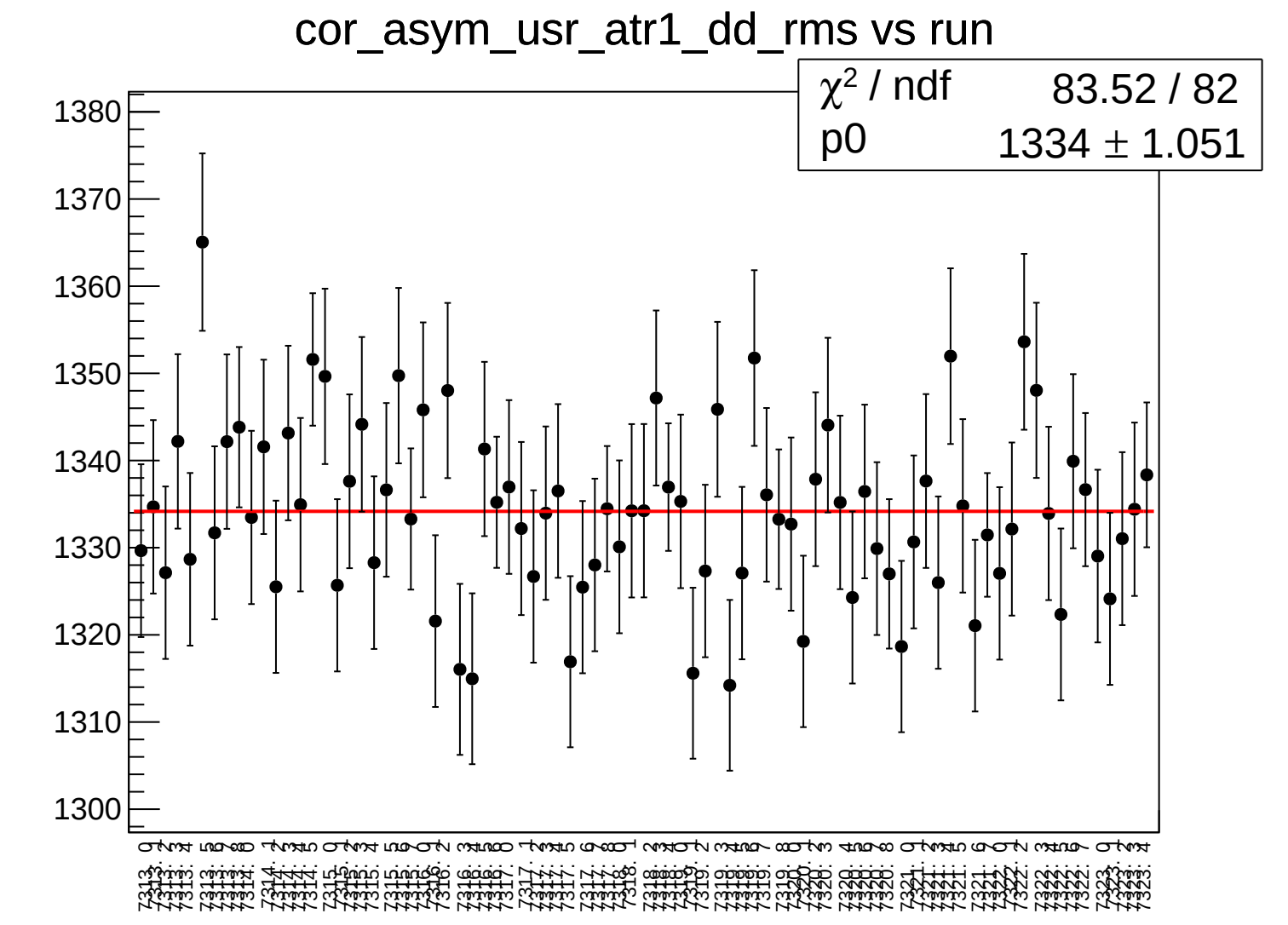

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 85.83 / 82
p0 1023 ± 946
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −866.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

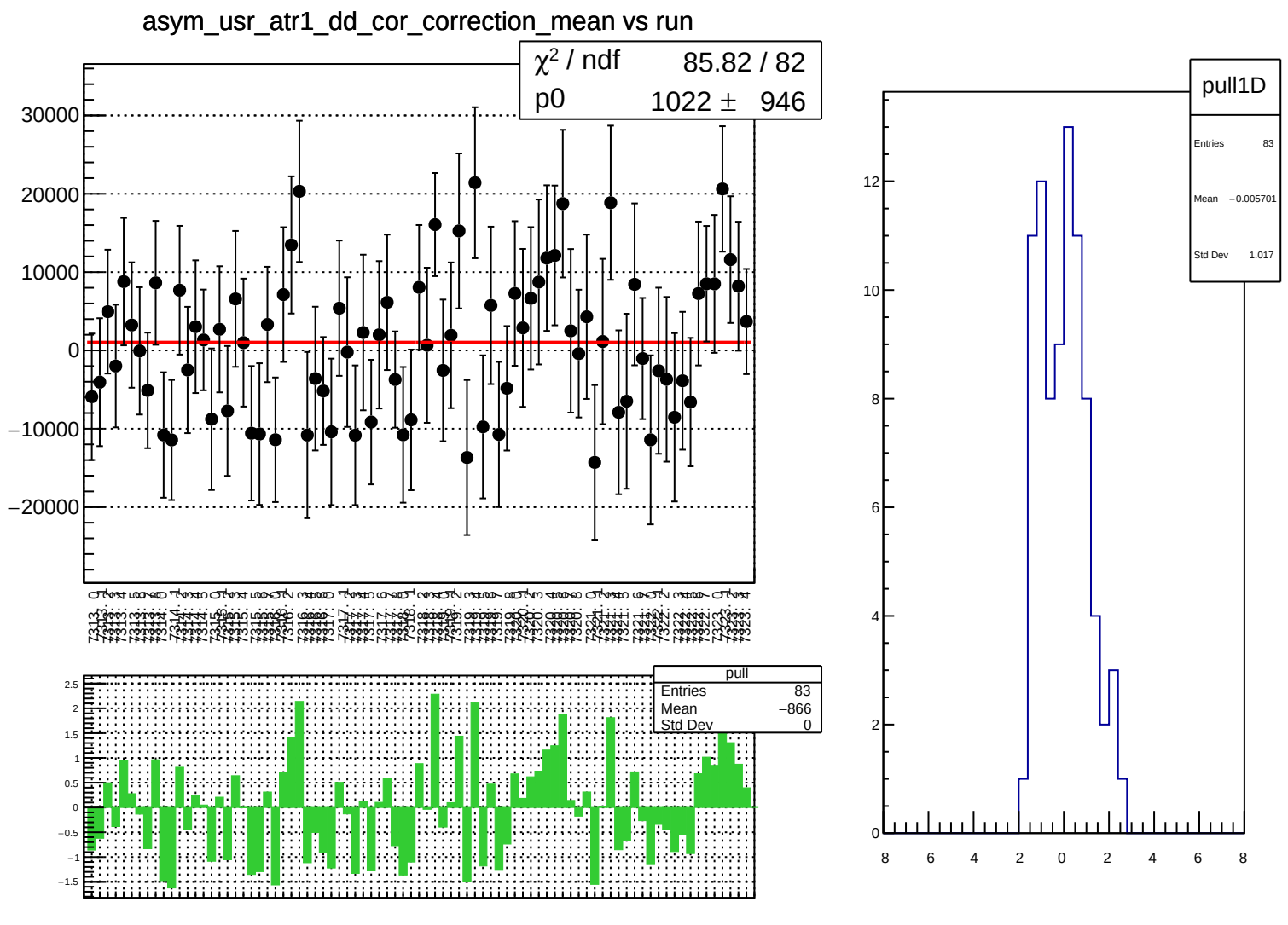

pull1D
Entries 83
Mean −0.005697
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

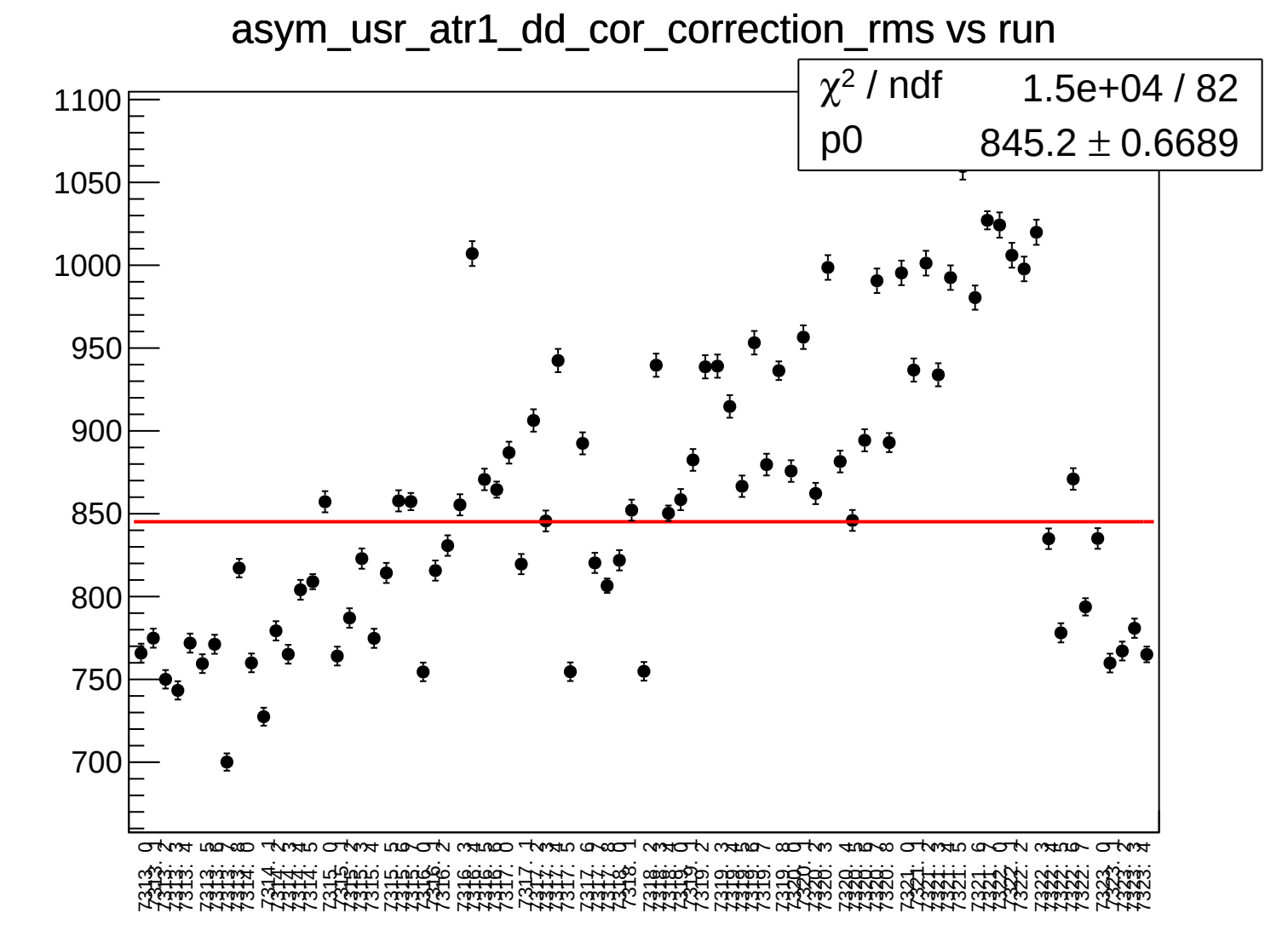

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.501e+04 / 82
p0 845.1 ± 0.6689
1100
1050
1000
950
900
850
800
750
700

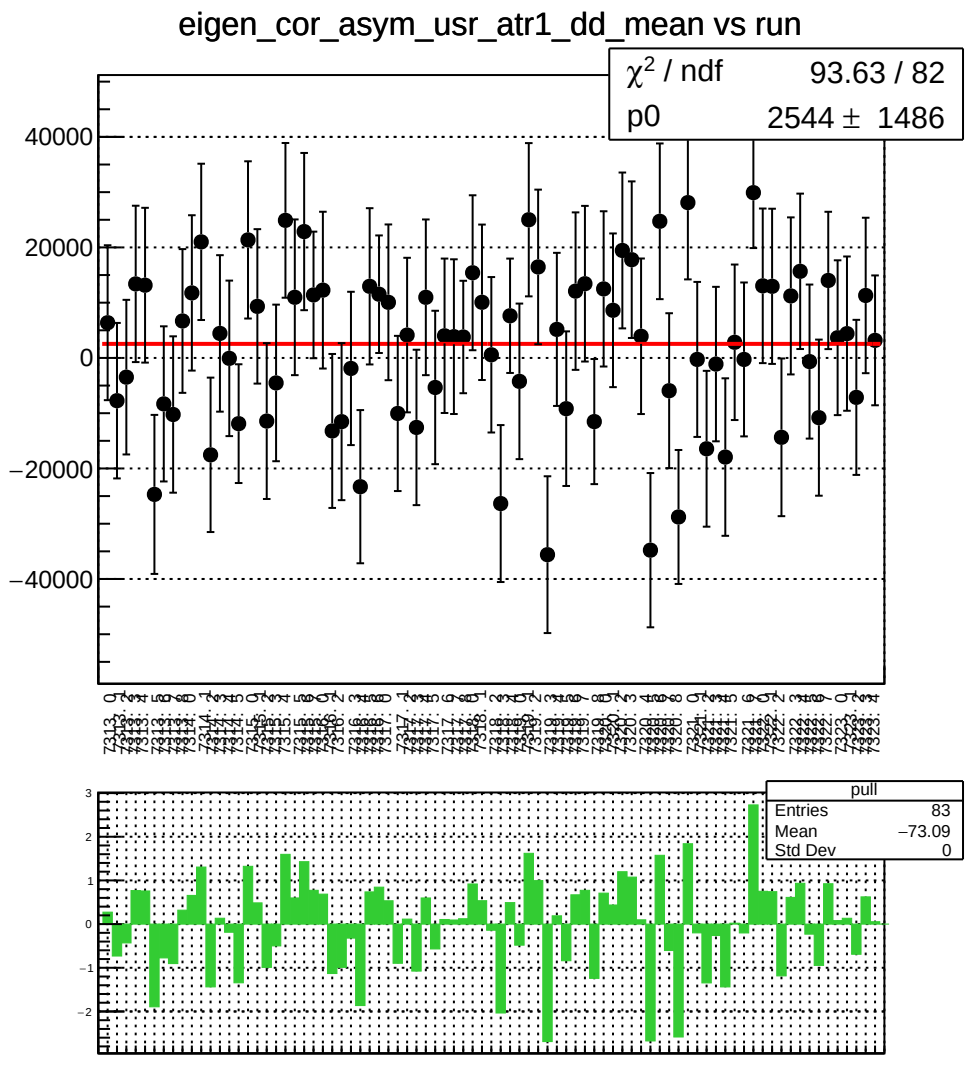

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.63 / 82
p0 2544 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −73.09
Std Dev 0
3
2
1
0
−1
−2

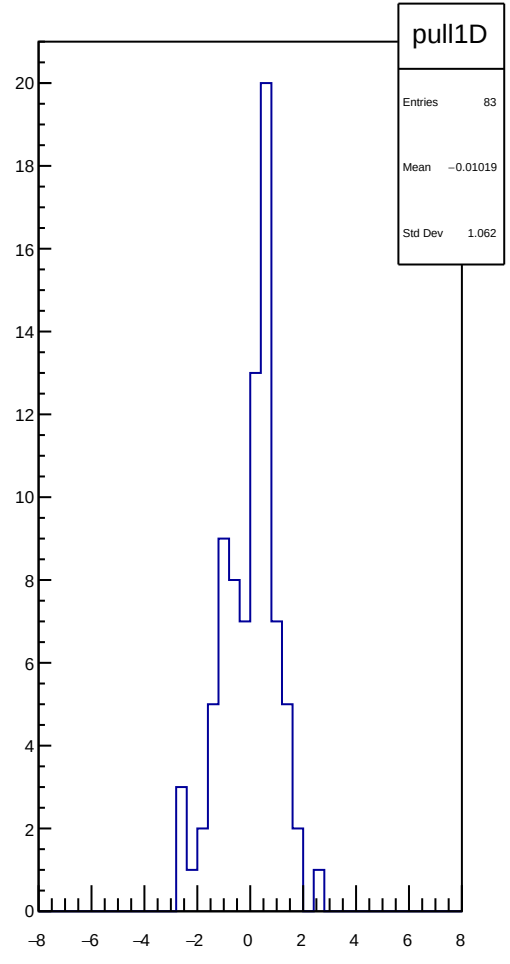

pull1D
Entries 83
Mean −0.01019
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

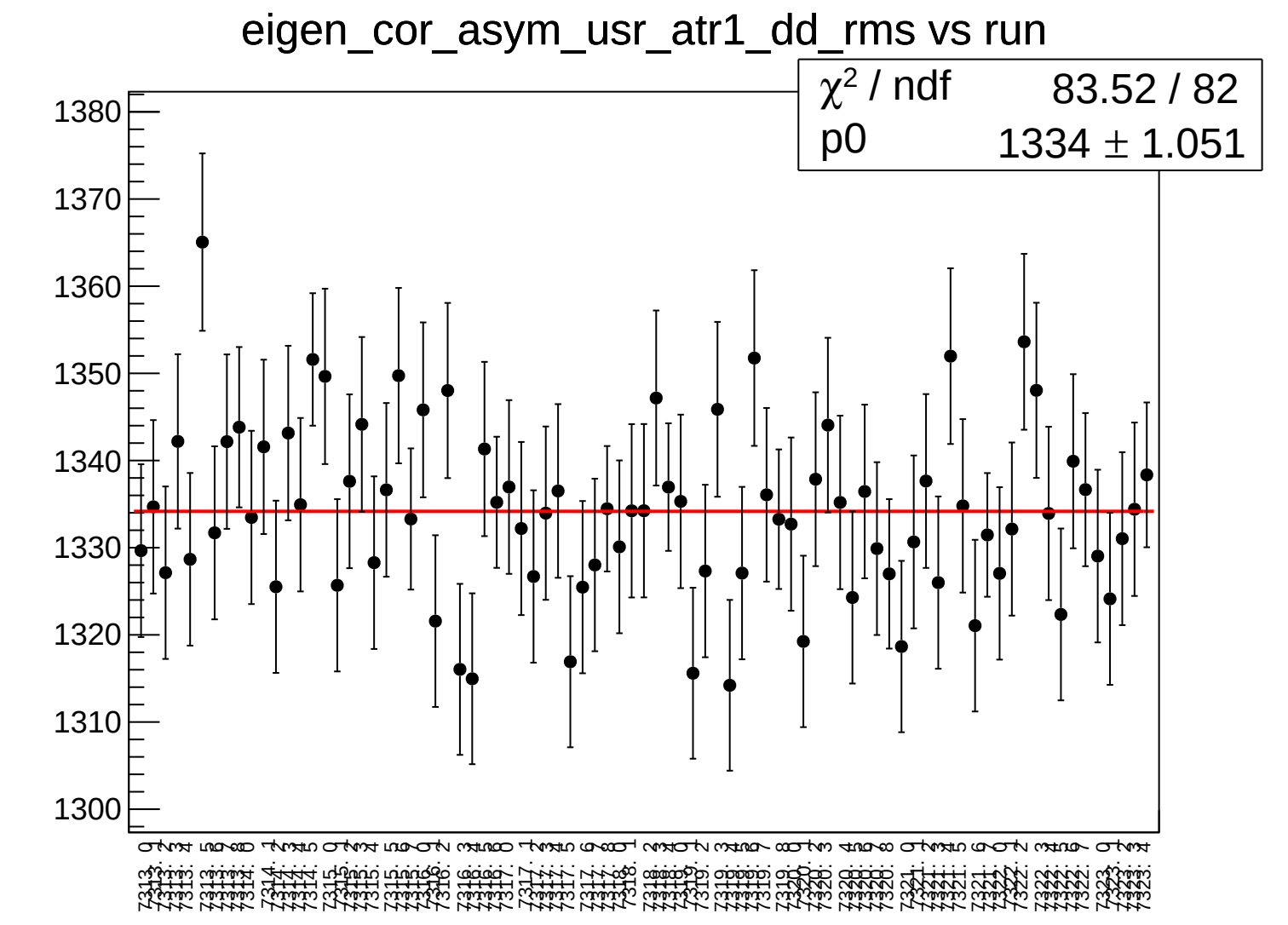

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 83.52 / 82
p0 1334 ± 1.051
1380
1370
1360
1350
1340
1330
1320
1310
1300

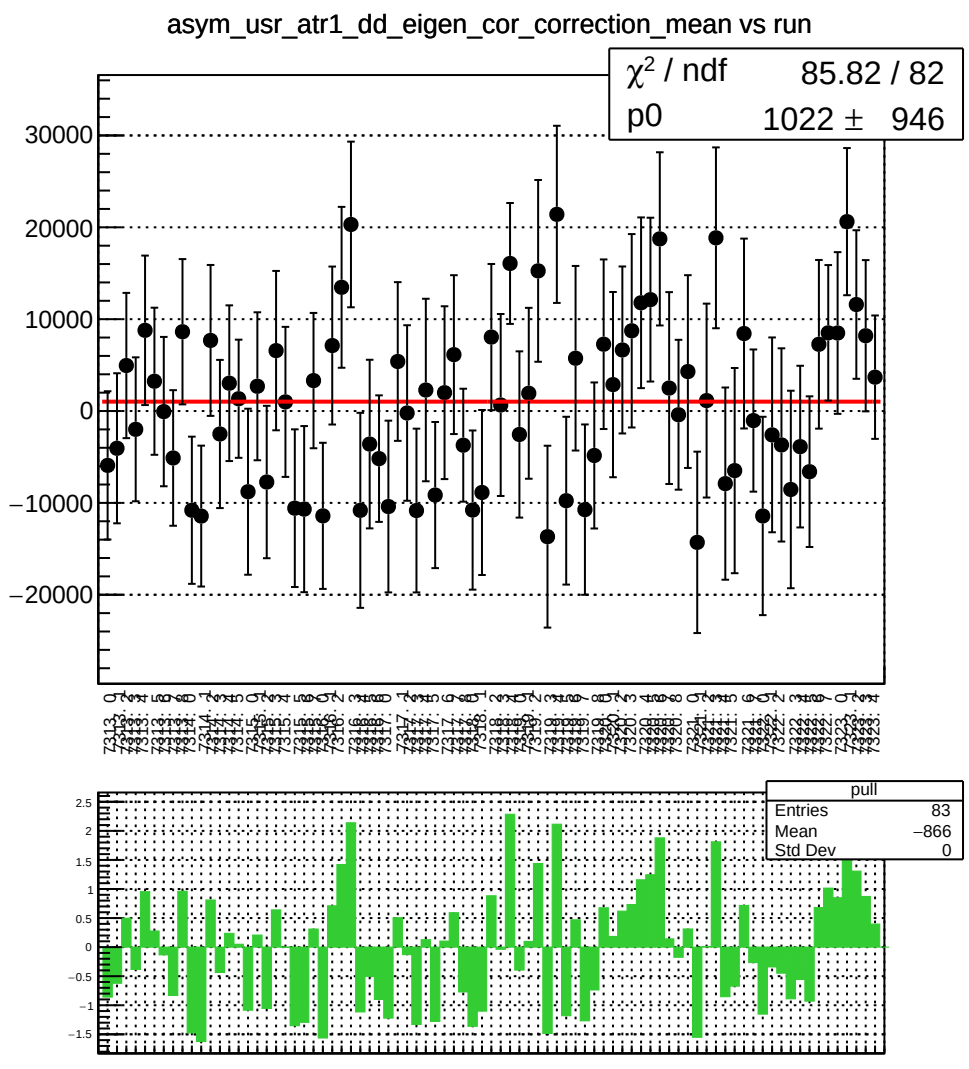

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 85.82 / 82
p0 1022 ± 946
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −866
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.005701
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

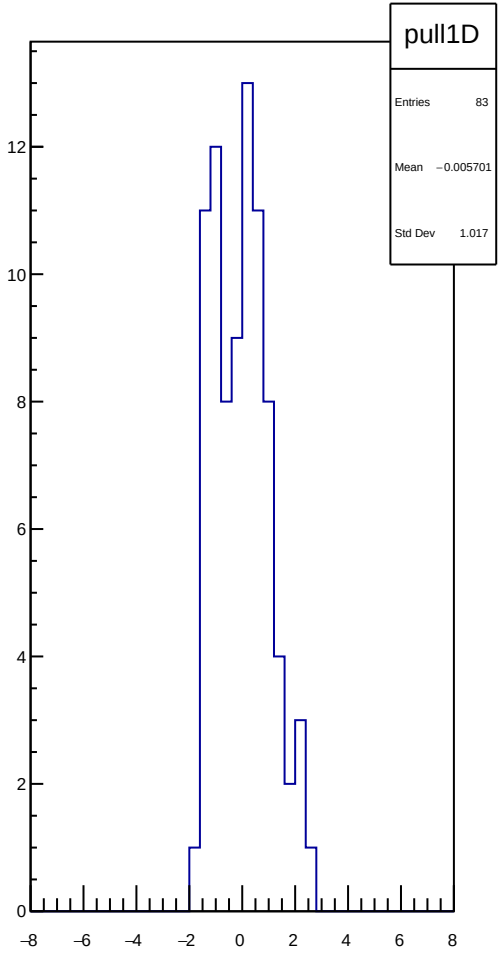

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 82
p0 845.2 ± 0.6689
1100
1050
1000
950
900
850
800
750
700

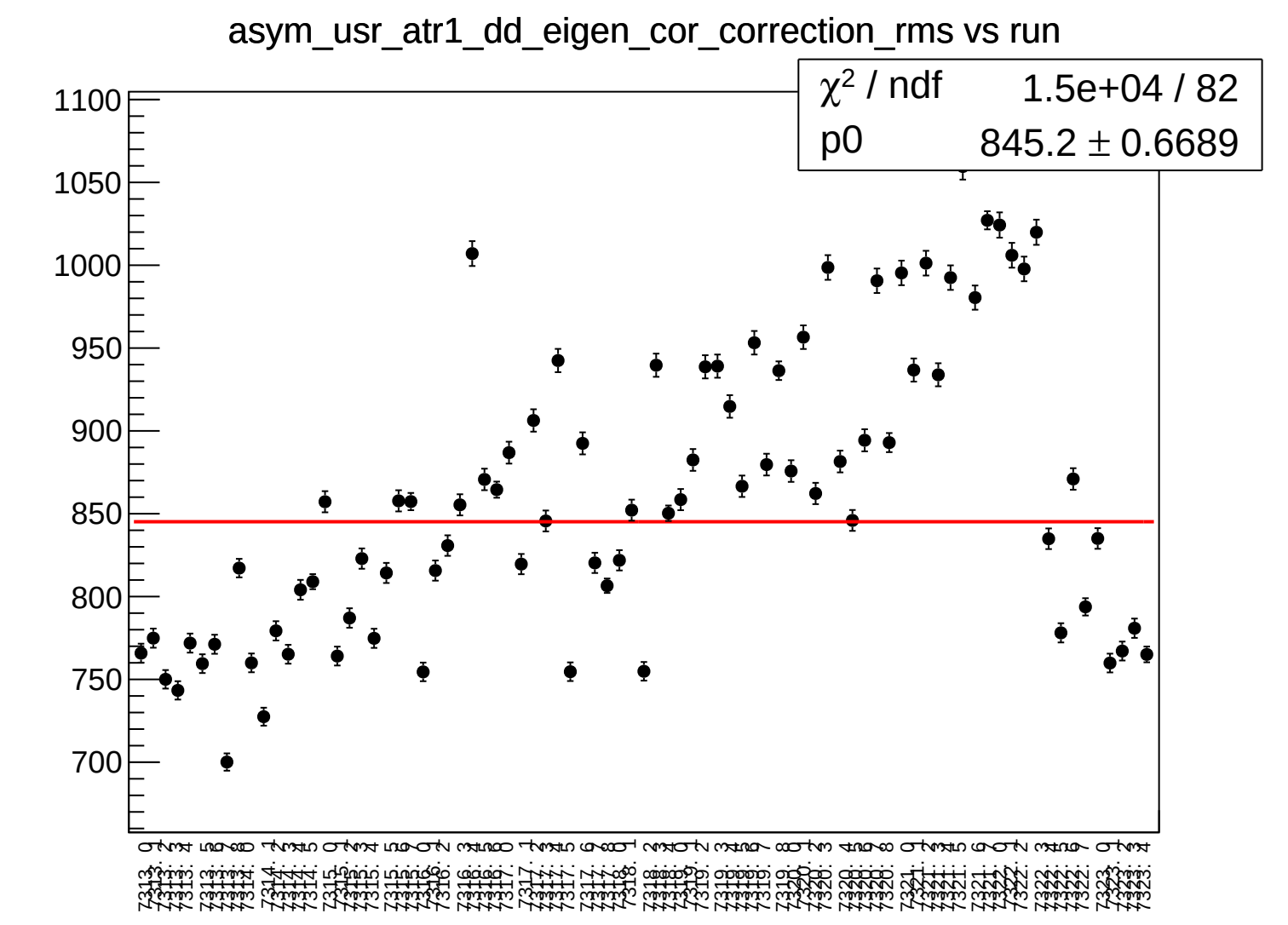

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.63 / 82
p0 2544 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −73.09
Std Dev 0
3
2
1
0
−1
−2

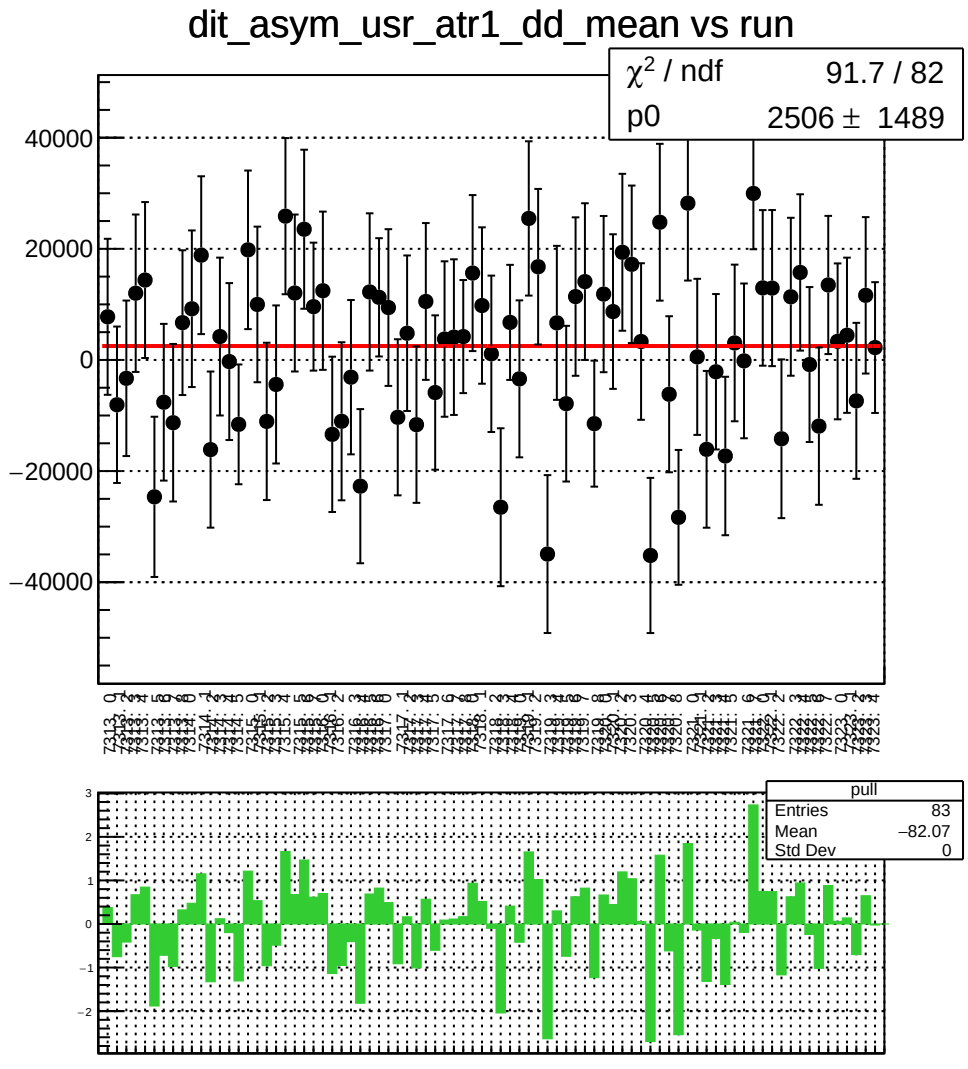

pull1D
Entries 83
Mean −0.01019
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

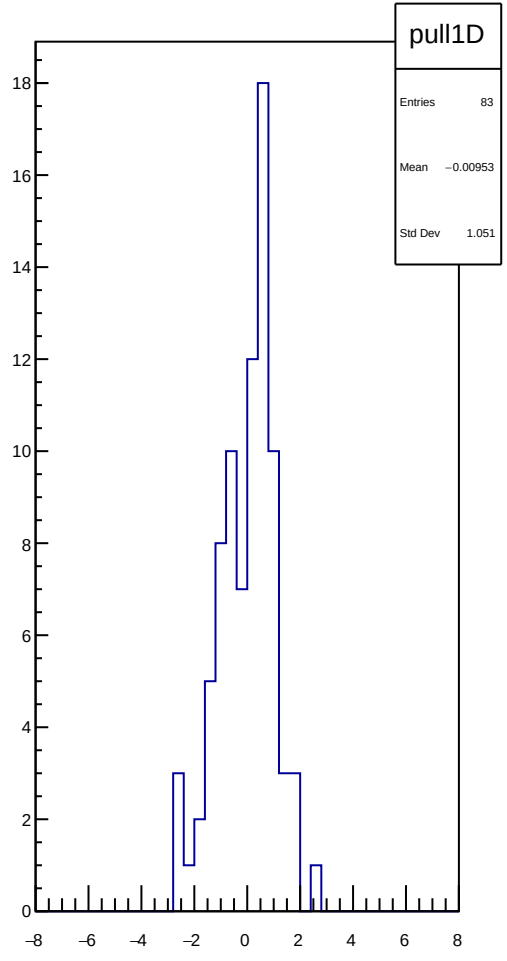

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 83.52 / 82
p0 1334 ± 1.051
1380
1370
1360
1350
1340
1330
1320
1310
1300

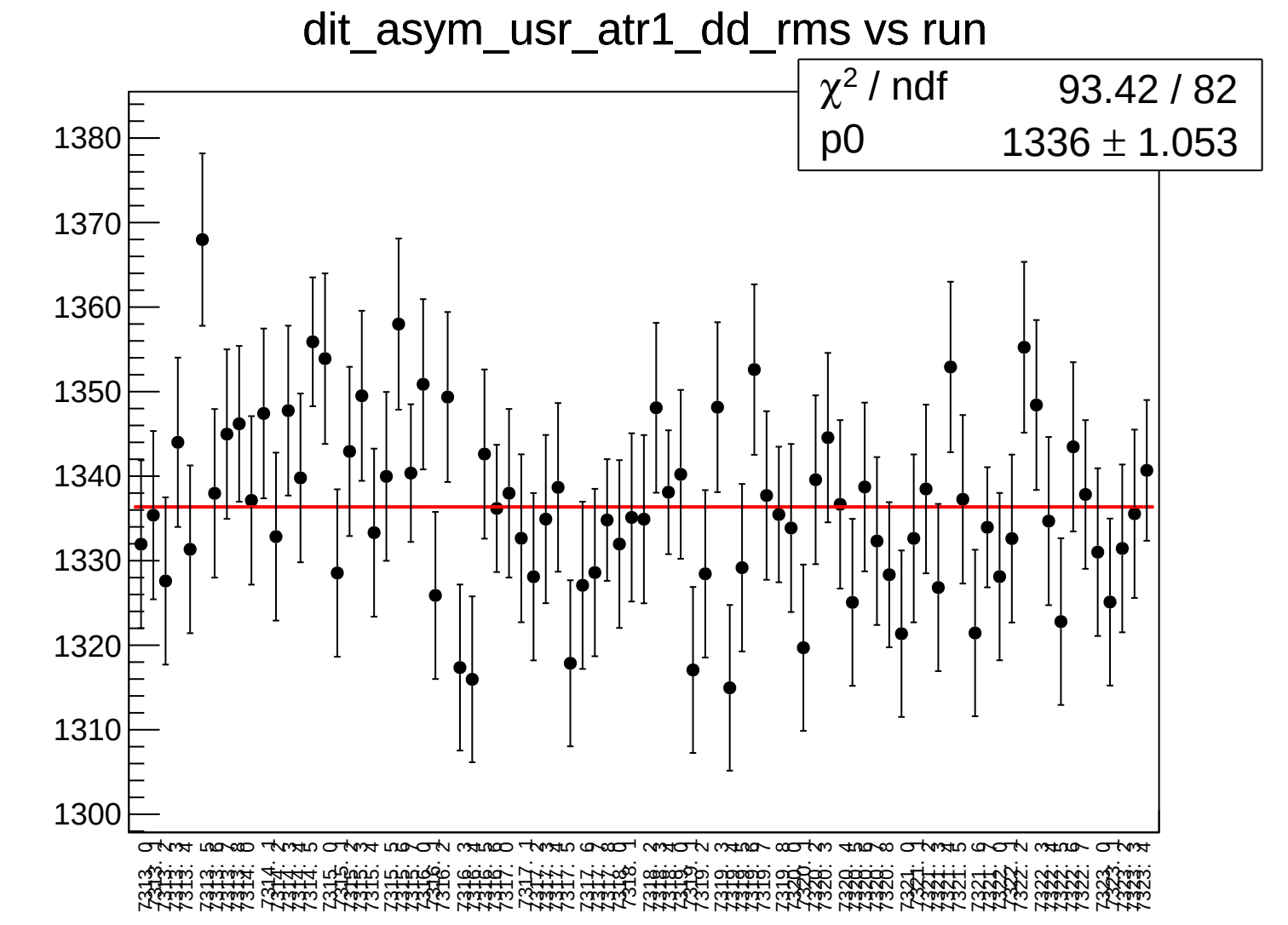

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.82 / 82
p0 1022 ± 946
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −866
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

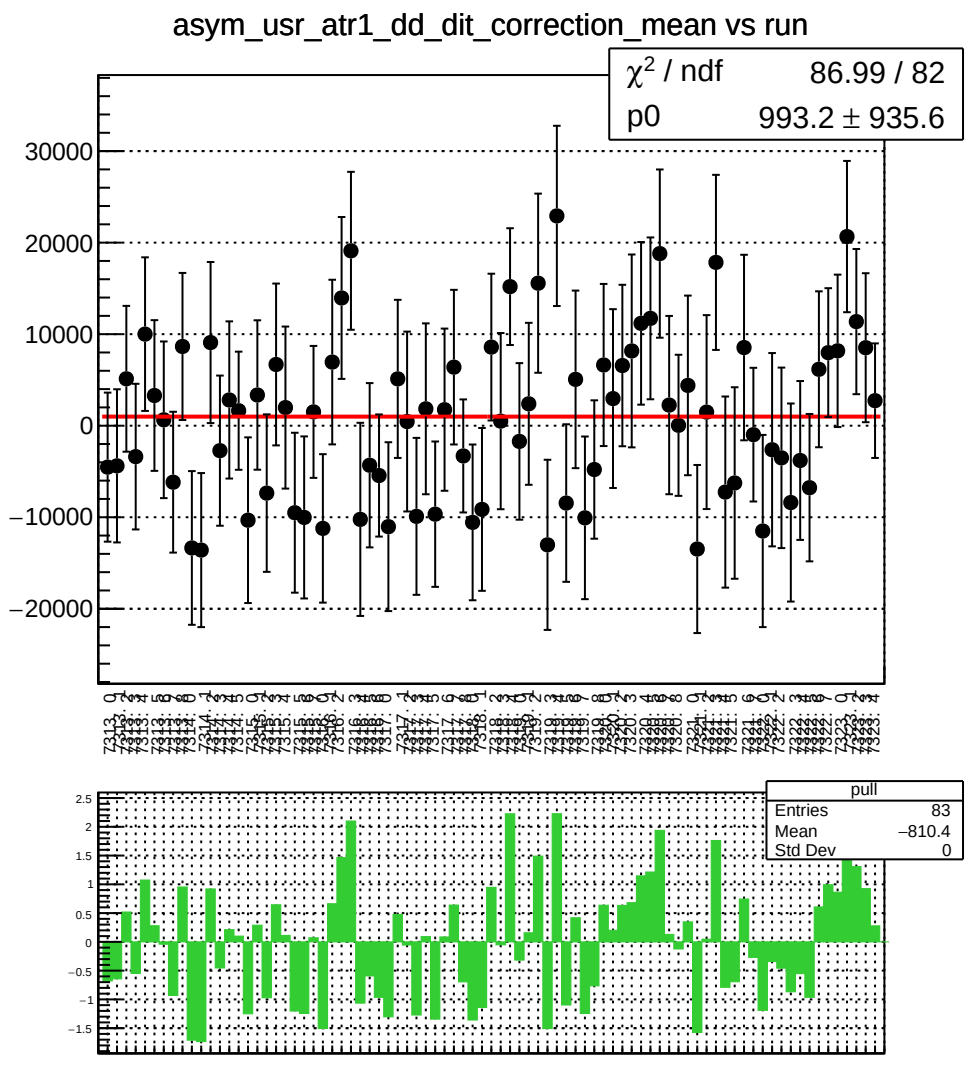

pull1D
Entries 83
Mean −0.005701
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

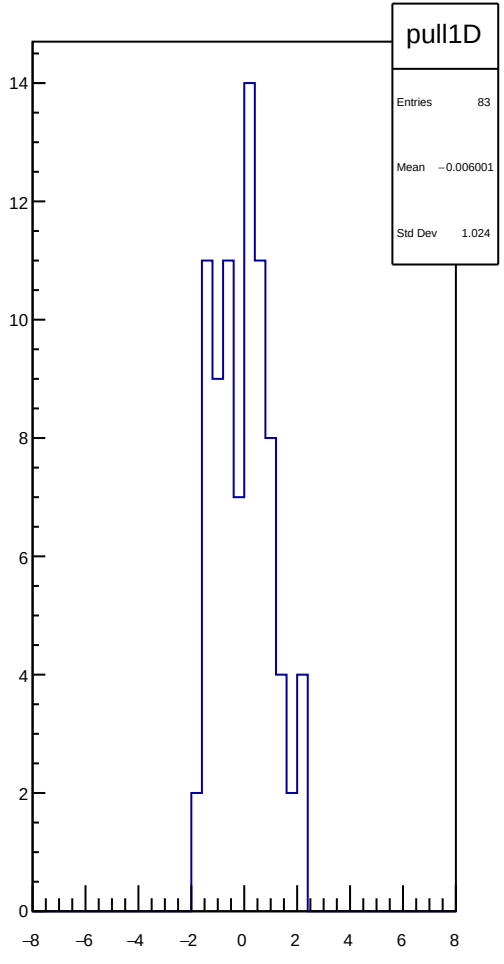

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 82
p0 845.2 ± 0.6689
1100
1050
1000
950
900
850
800
750
700

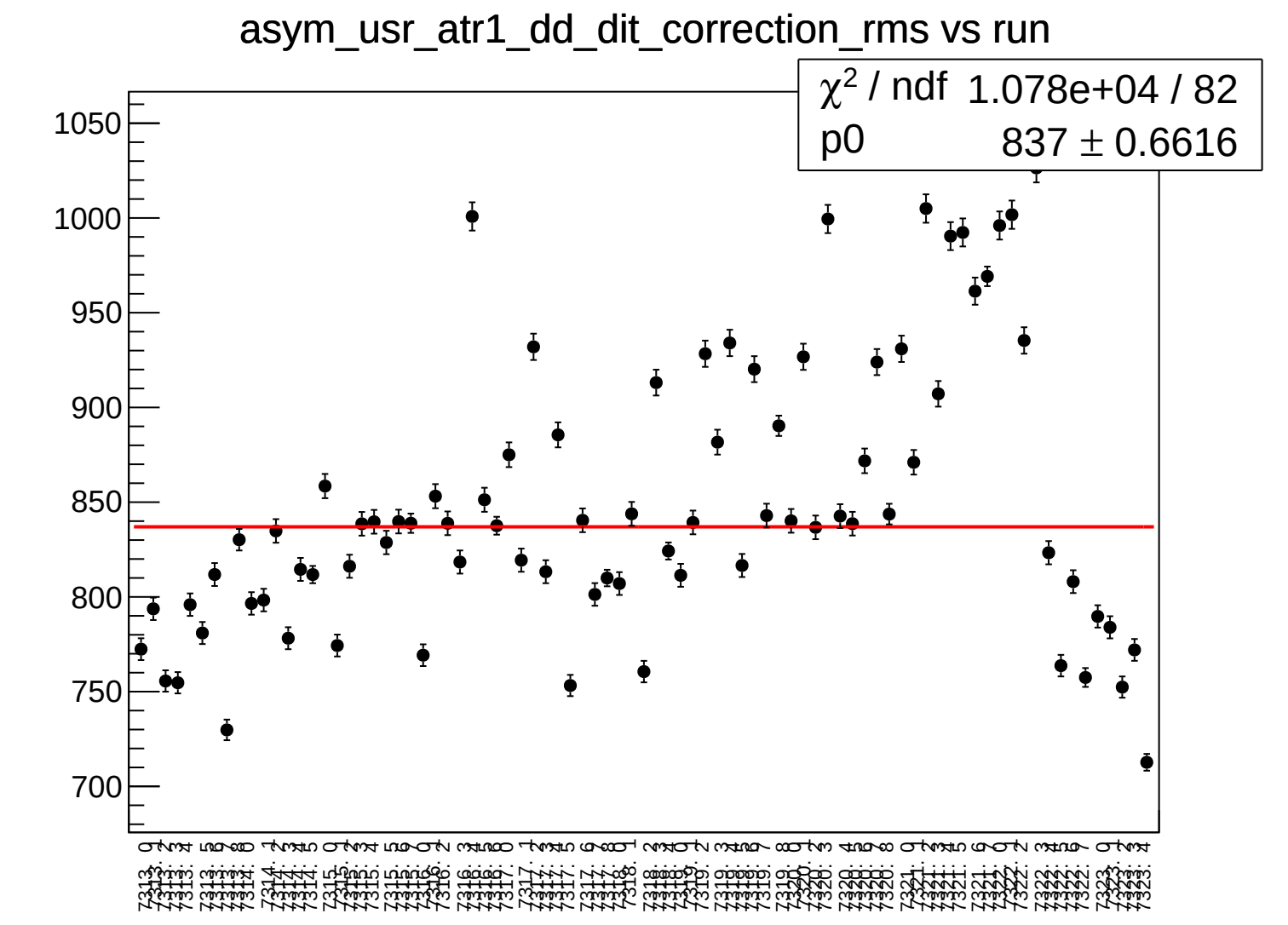

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.7 / 82
p0 2506 ± 1489
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −82.07
Std Dev 0
3
2
1
0
−1
−2

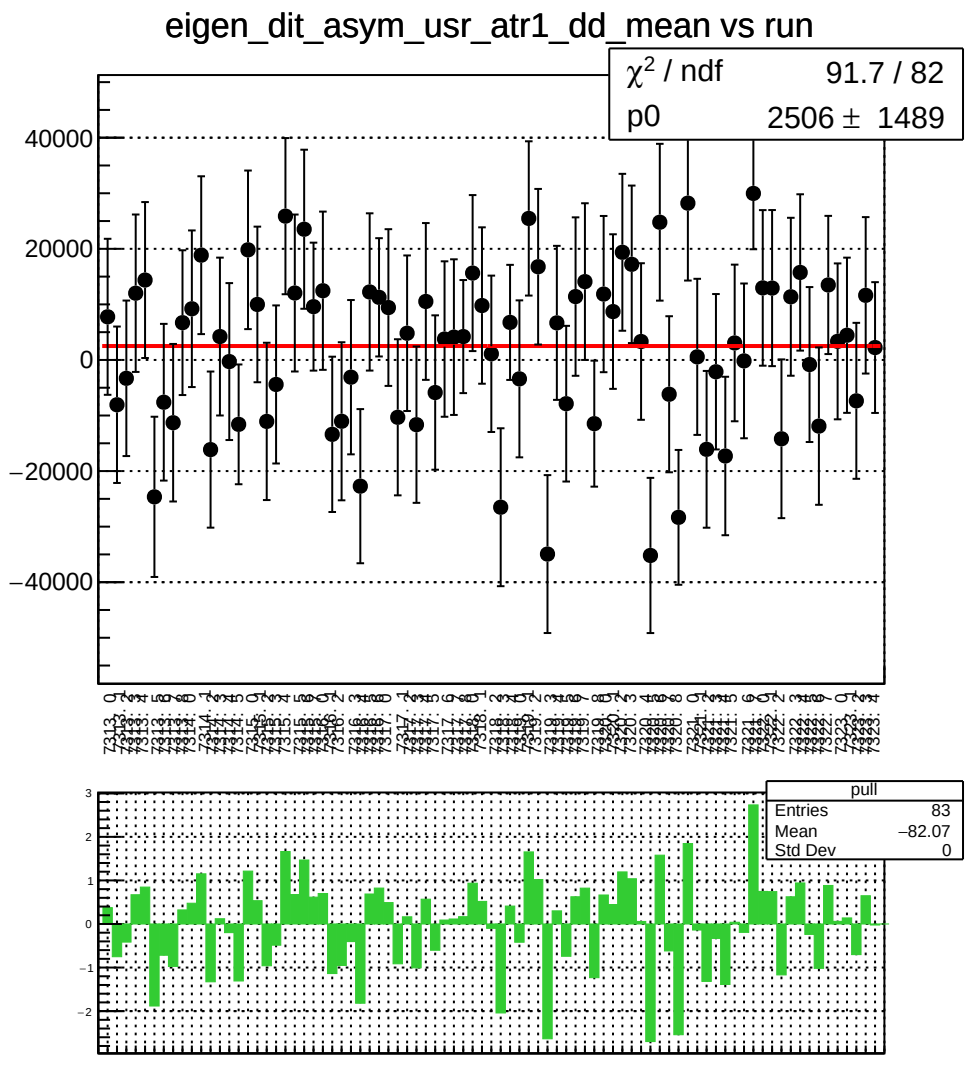

pull1D
Entries 83
Mean −0.00953
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

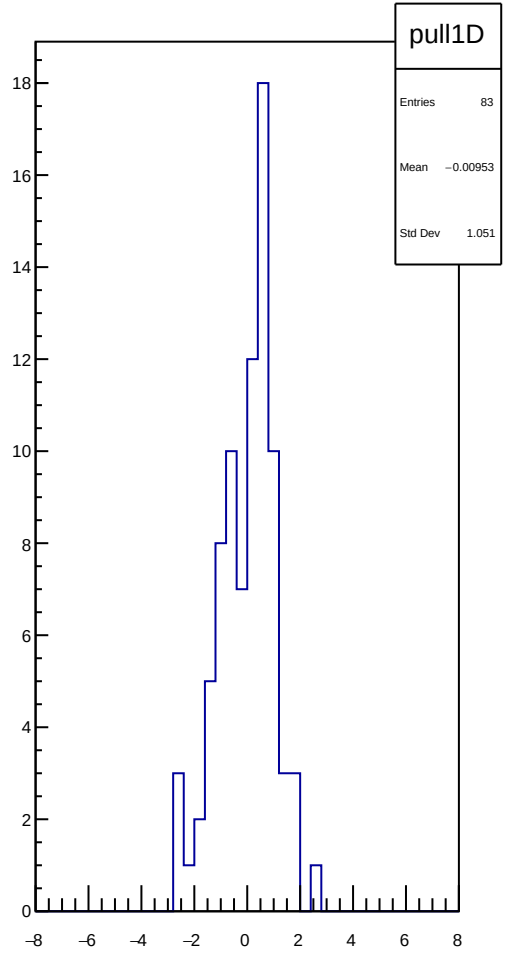

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 93.42 / 82
p0 1336 ± 1.053
1380
1370
1360
1350
1340
1330
1320
1310
1300

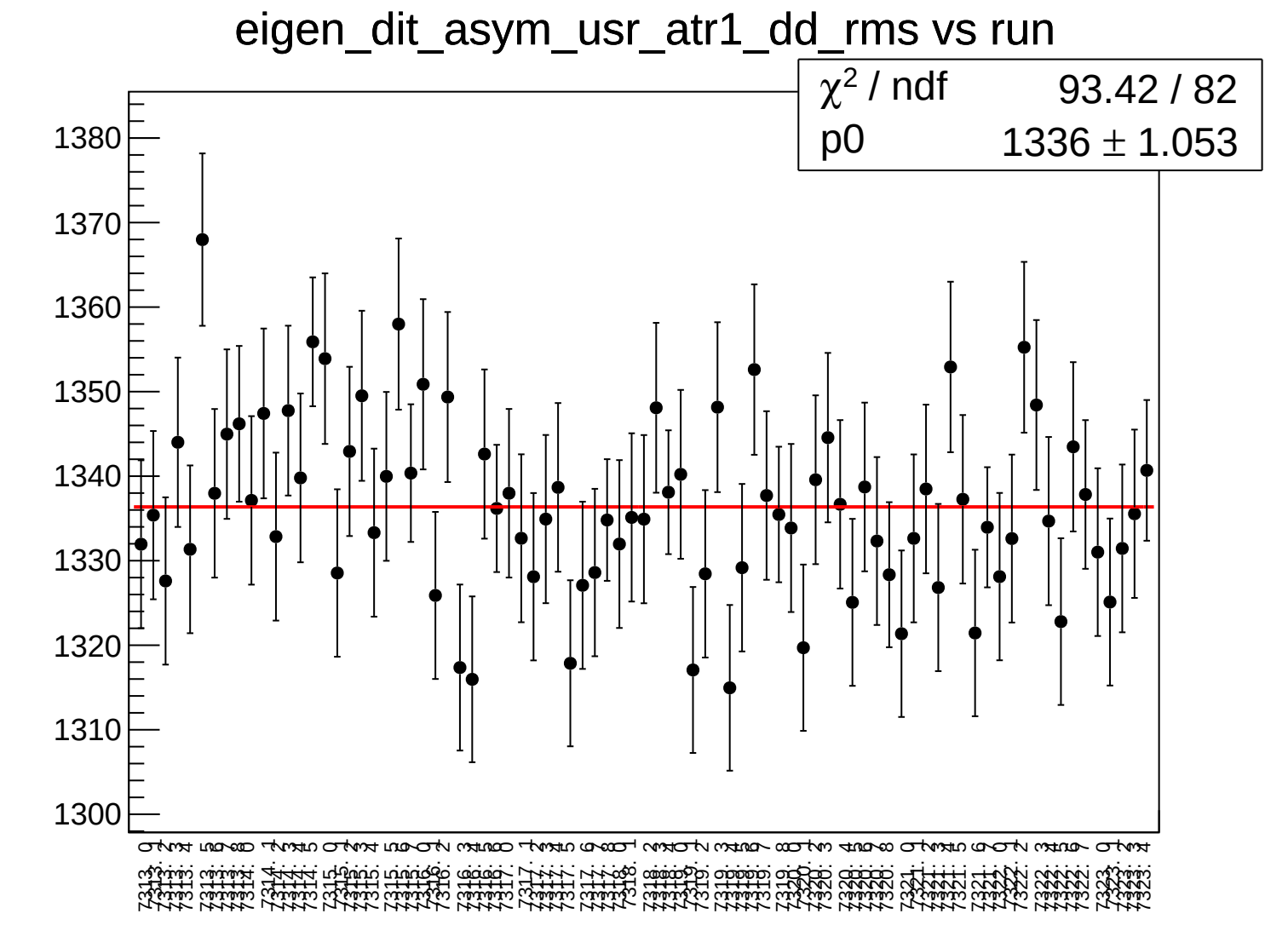

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 86.99 / 82
p0 993.2 ± 935.6
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −810.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

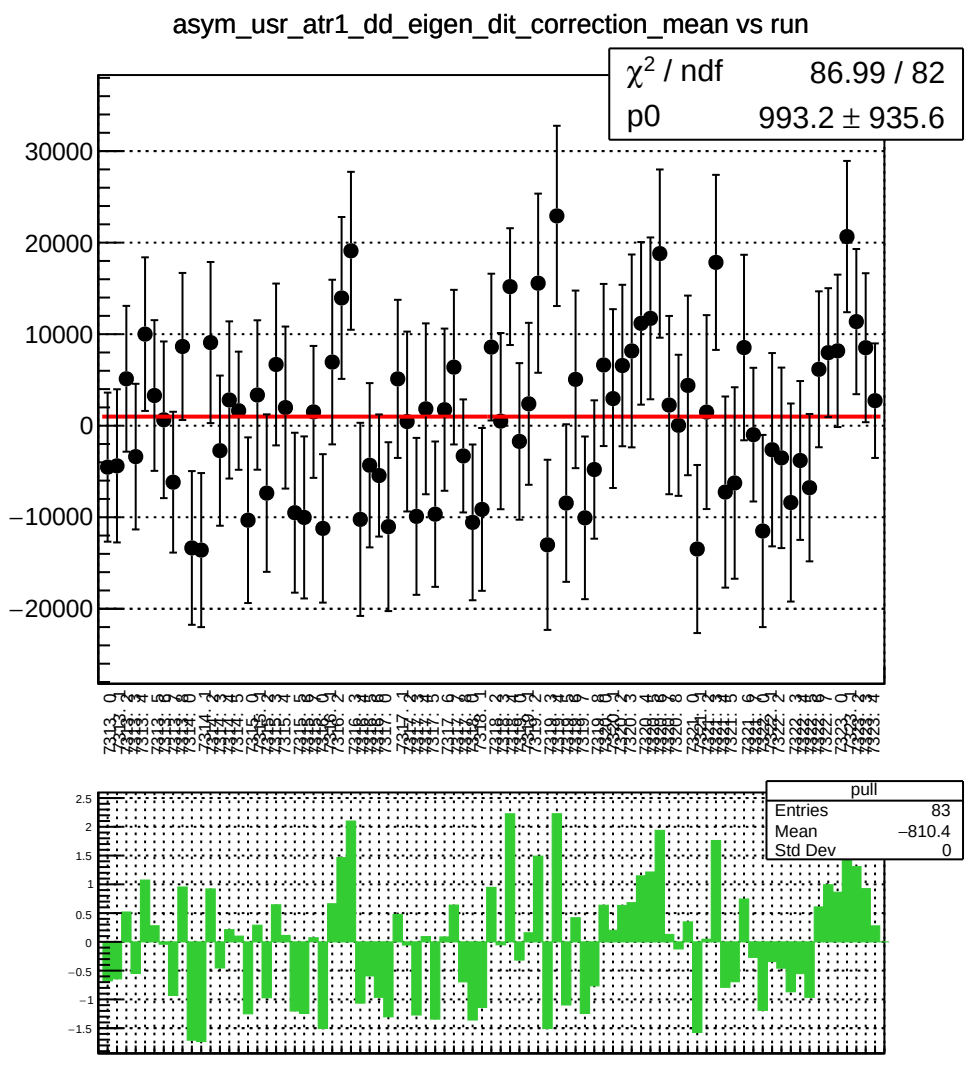

pull1D
Entries 83
Mean −0.006001
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

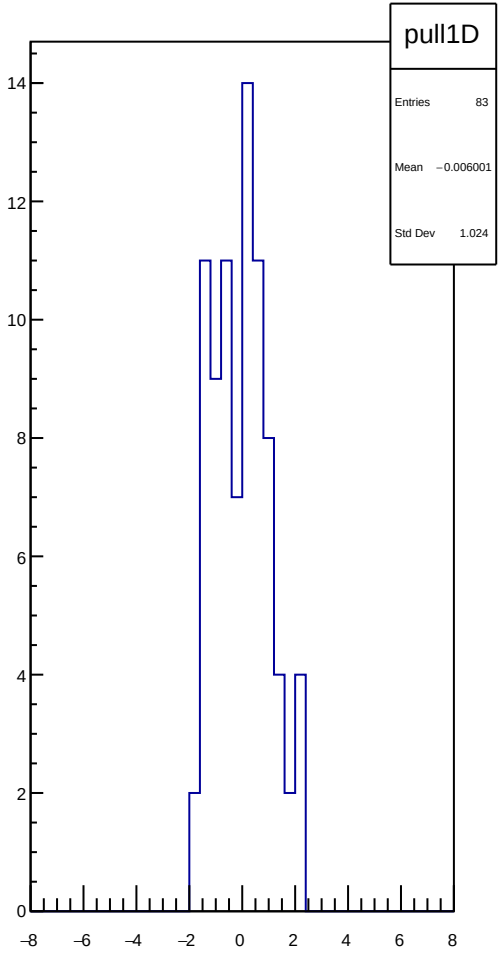

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.078e+04 / 82
p0 837 ± 0.6616
1050
1000
950
900
850
800
750
700

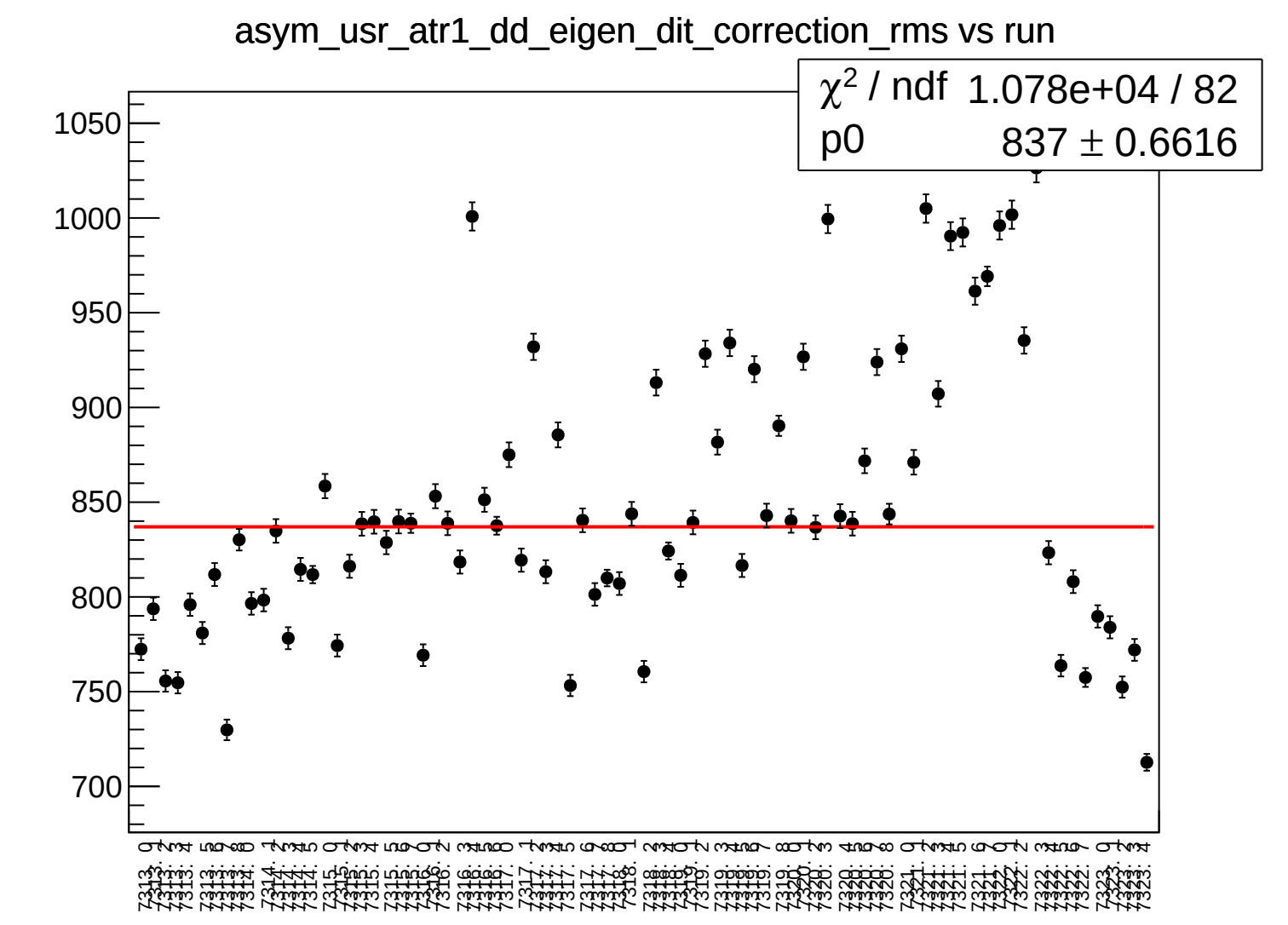

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.7 / 82
p0 2506 ± 1489
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −82.07
Std Dev 0
3
2
1
0
−1
−2

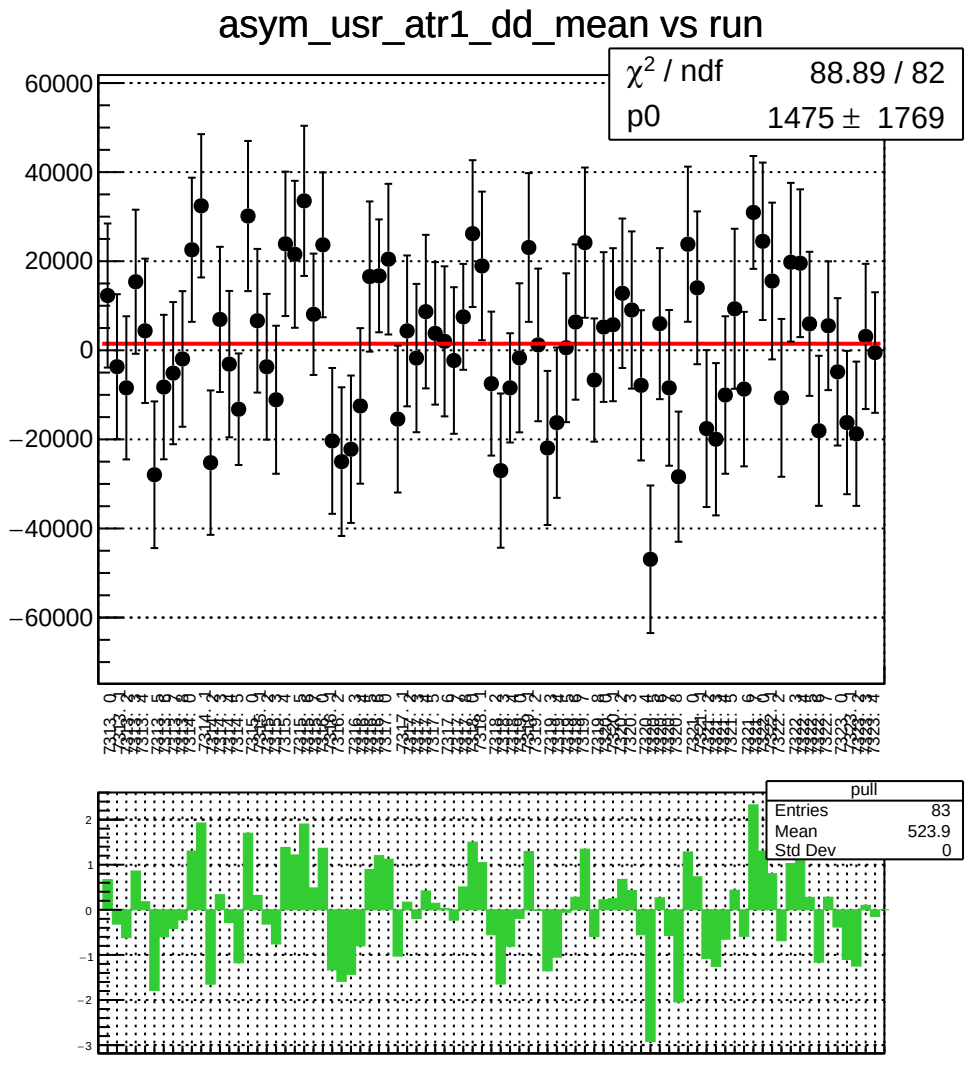

pull1D
Entries 83
Mean −0.00953
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

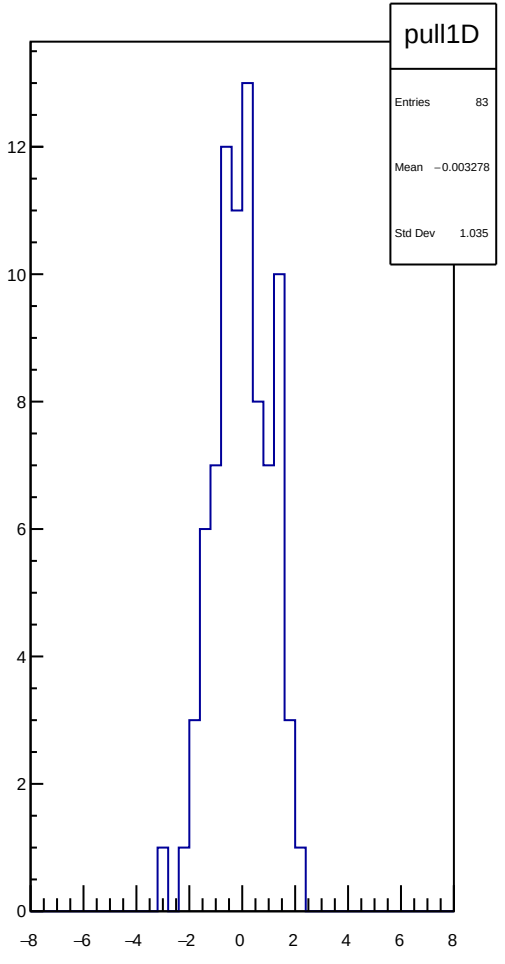

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 93.42 / 82
p0 1336 ± 1.053
1380
1370
1360
1350
1340
1330
1320
1310
1300

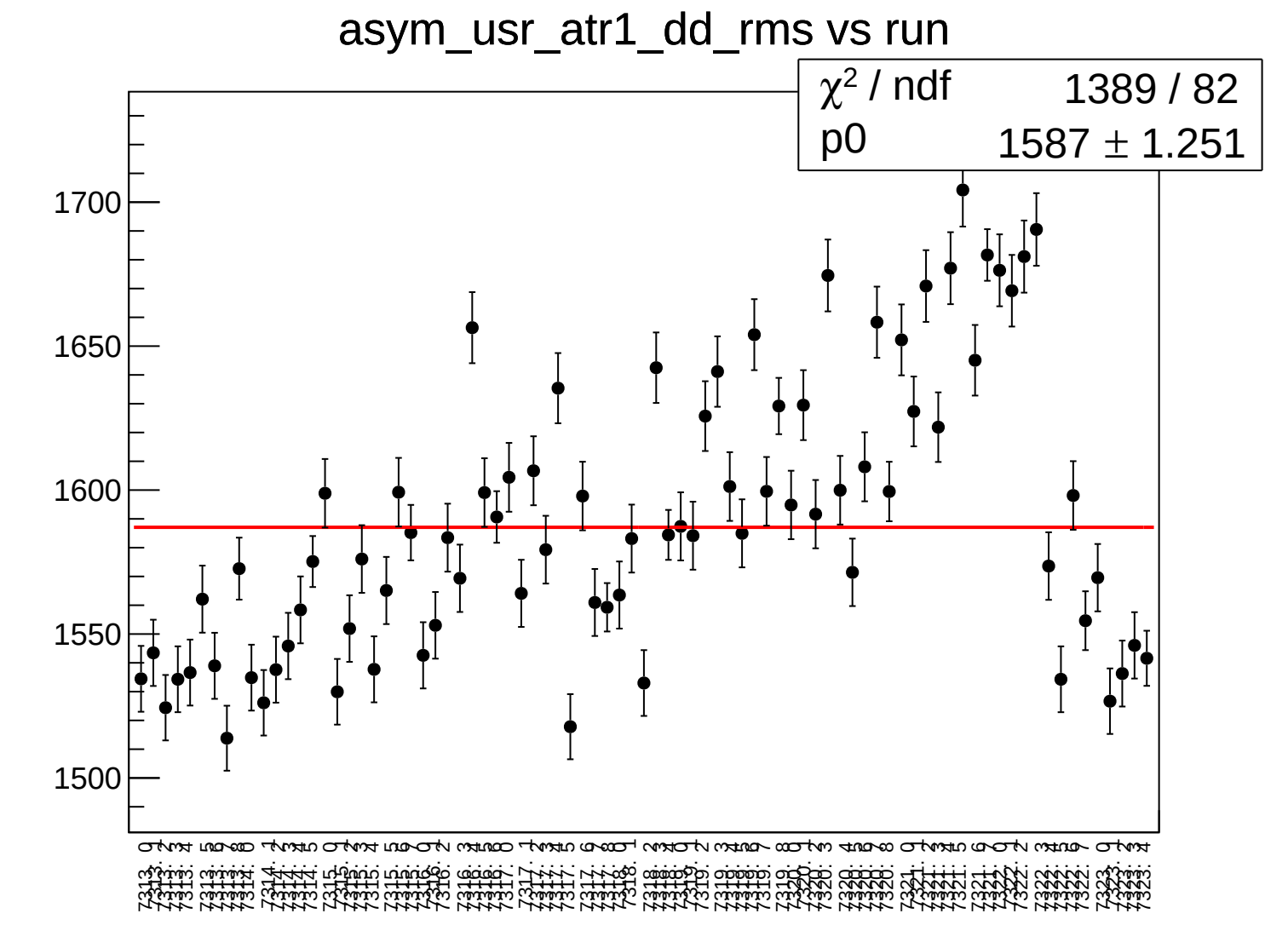

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.99 / 82
p0 993.2 ± 935.6
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −810.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

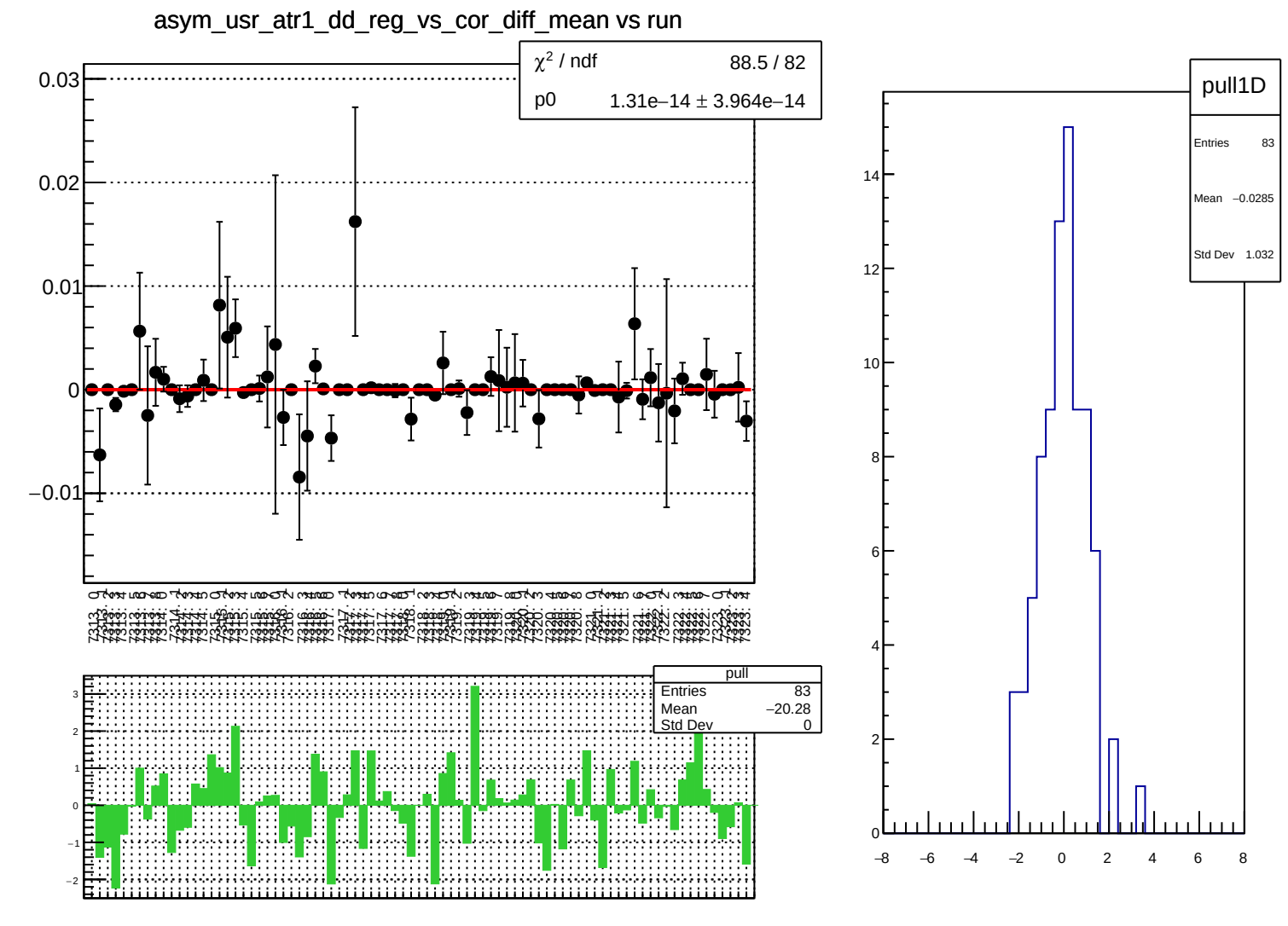

pull1D
Entries 83
Mean −0.006001
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

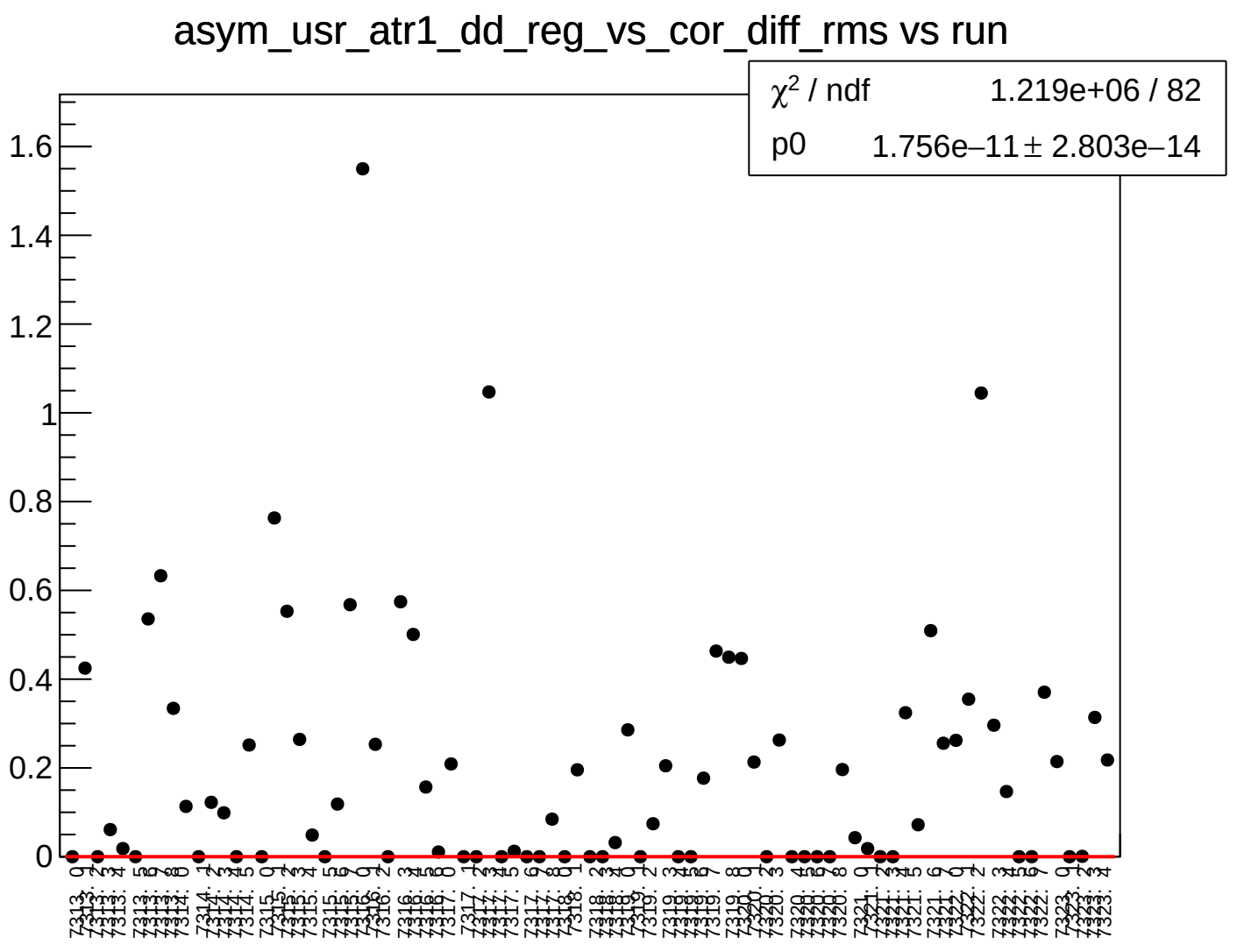

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.078e+04 / 82
p0 837 ± 0.6616
1050
1000
950
900
850
800
750
700

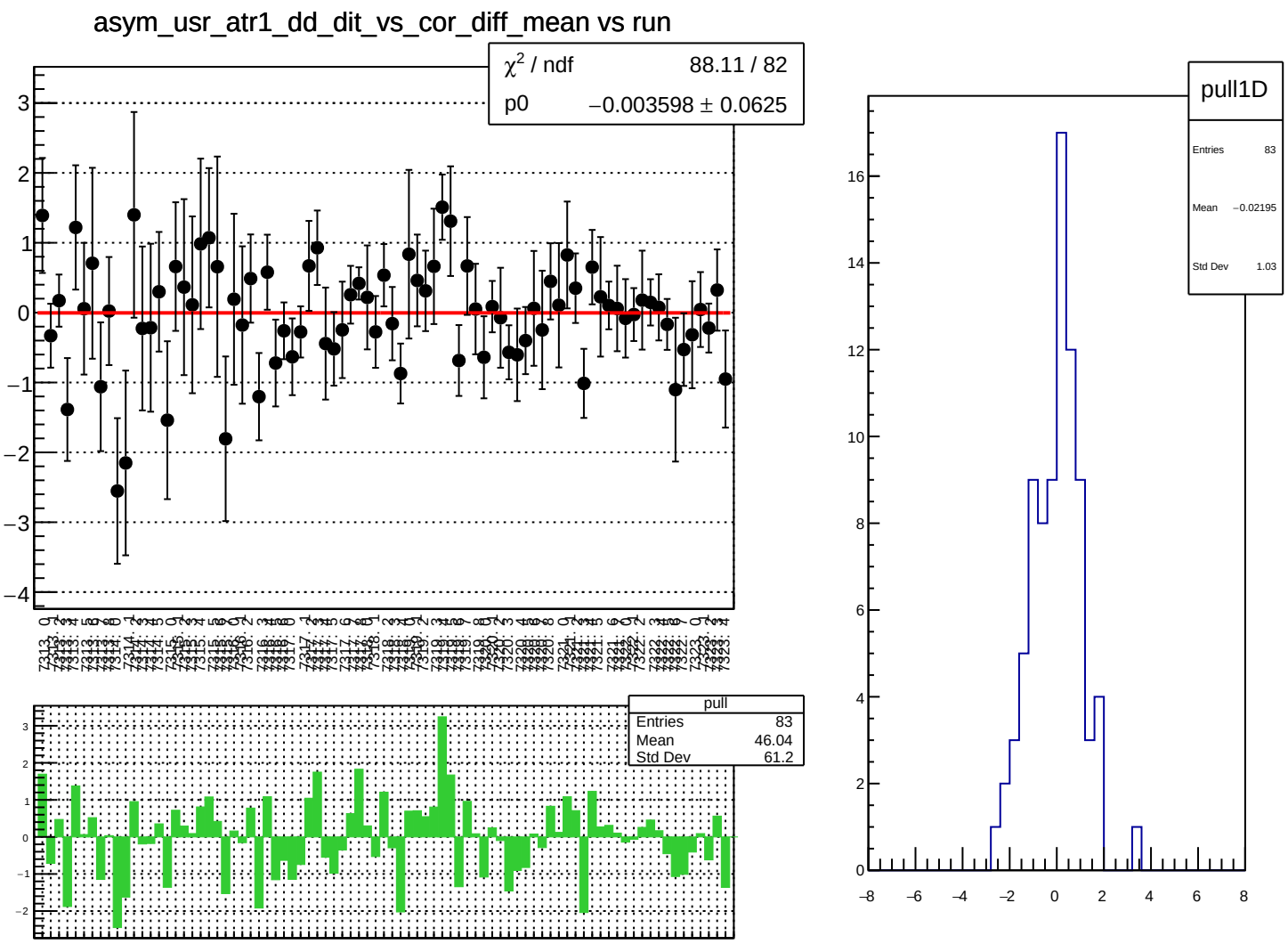

asym_usr_atr1_dd_mean vs run
χ² / ndf 88.89 / 82
p0 1475 ± 1769
pull
Entries 83
Mean 523.9
Std Dev 0

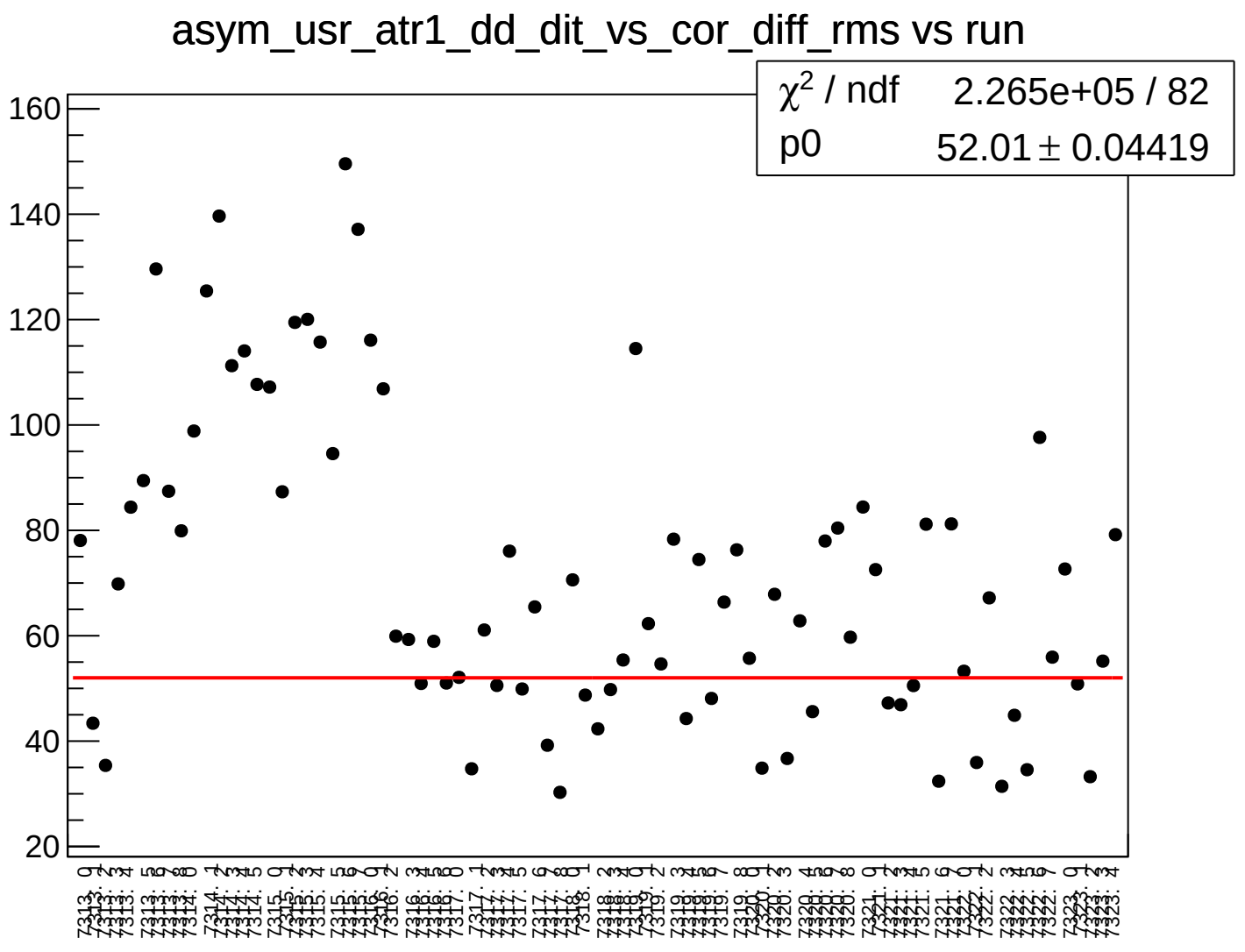

pull1D
Entries 83
Mean −0.003278
Std Dev 1.035

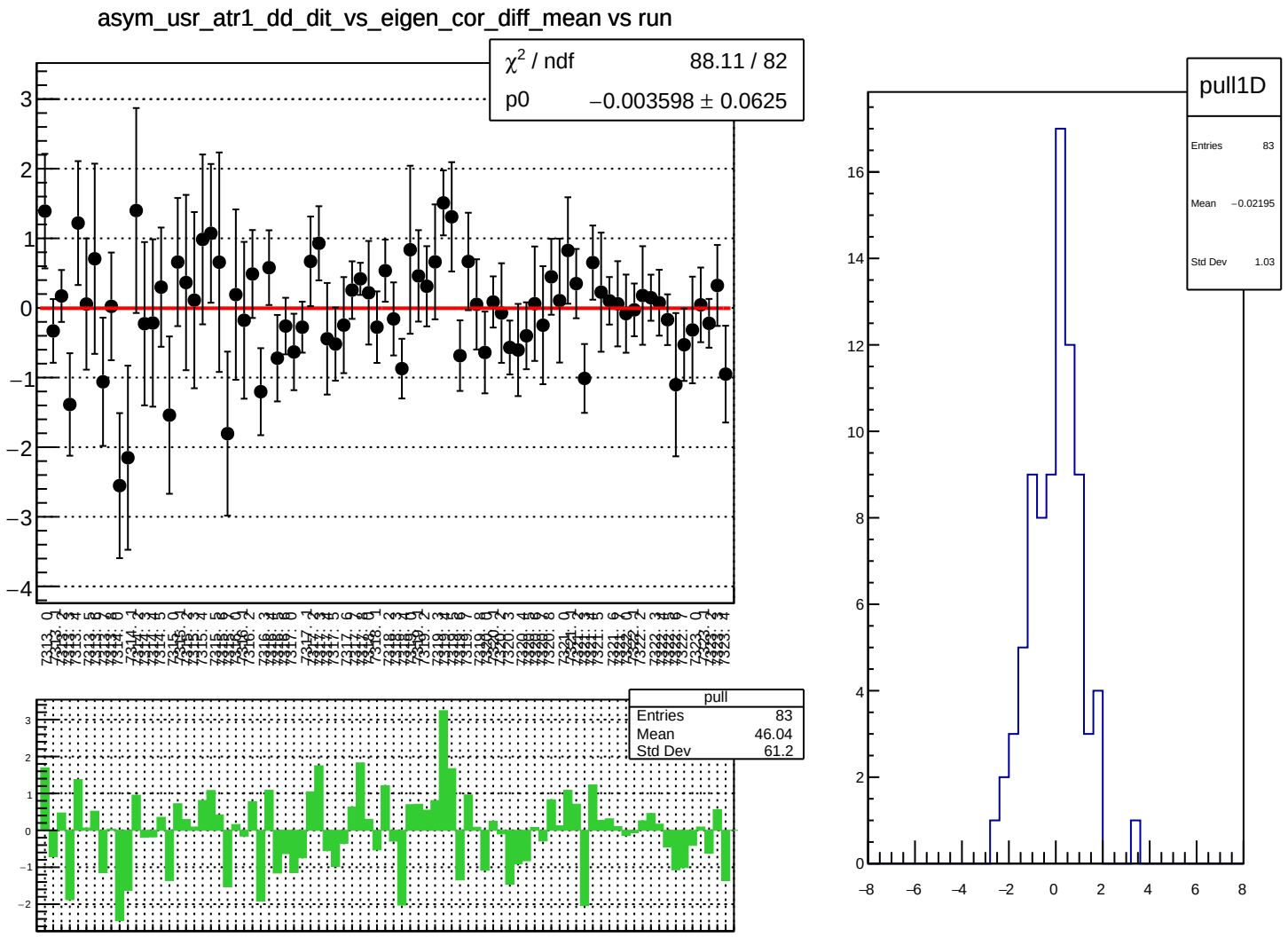

asym_usr_atr1_dd_rms vs run
χ² / ndf 1389 / 82
p0 1587 ± 1.251
1700
1650
1600
1550
1500

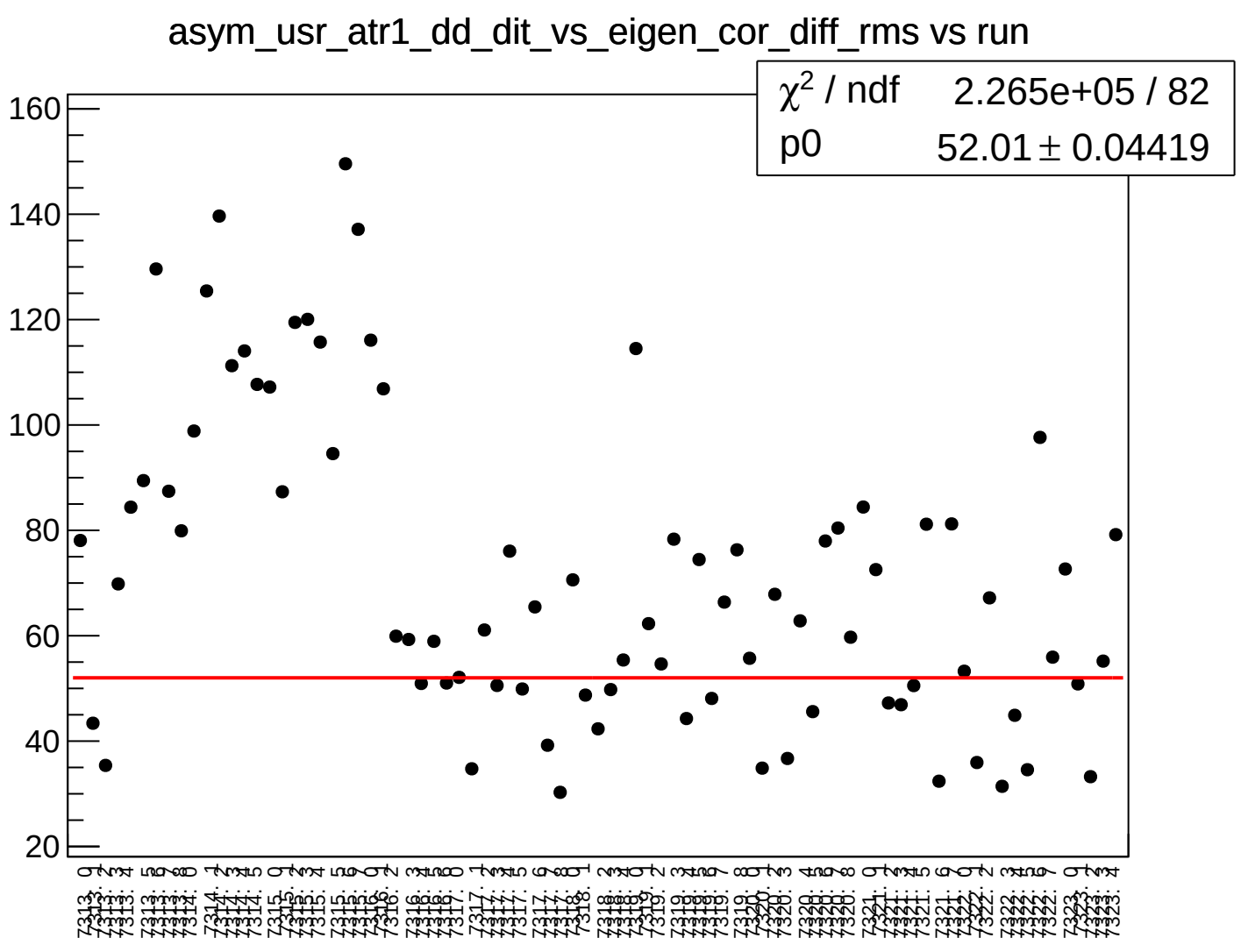

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.5 / 82
p0 1.31e−14 ± 3.964e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 83
Mean −20.28
Std Dev 0
pull1D
Entries 83
Mean −0.0285
Std Dev 1.032

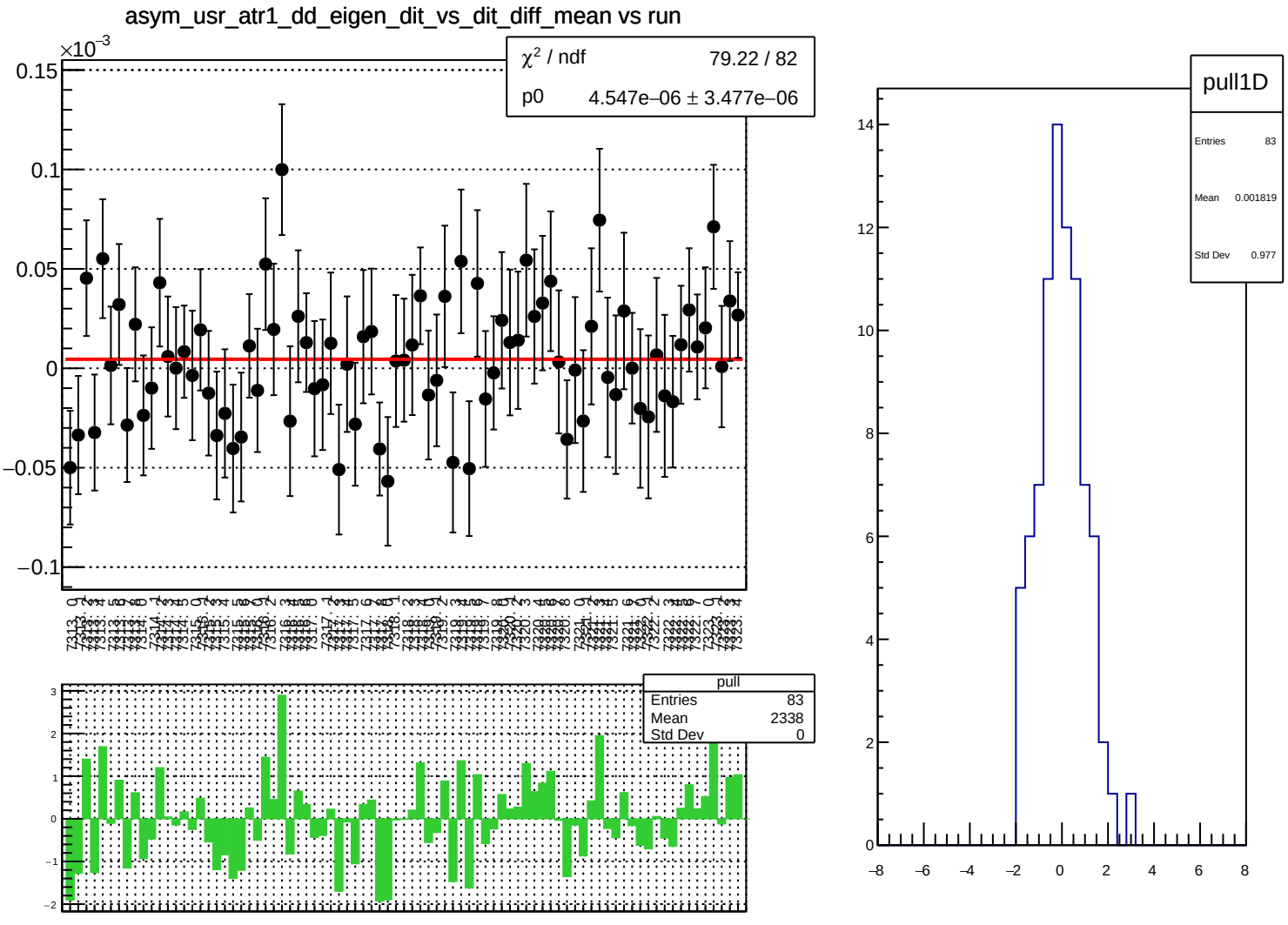

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 82
p0 1.756e−11 ± 2.803e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

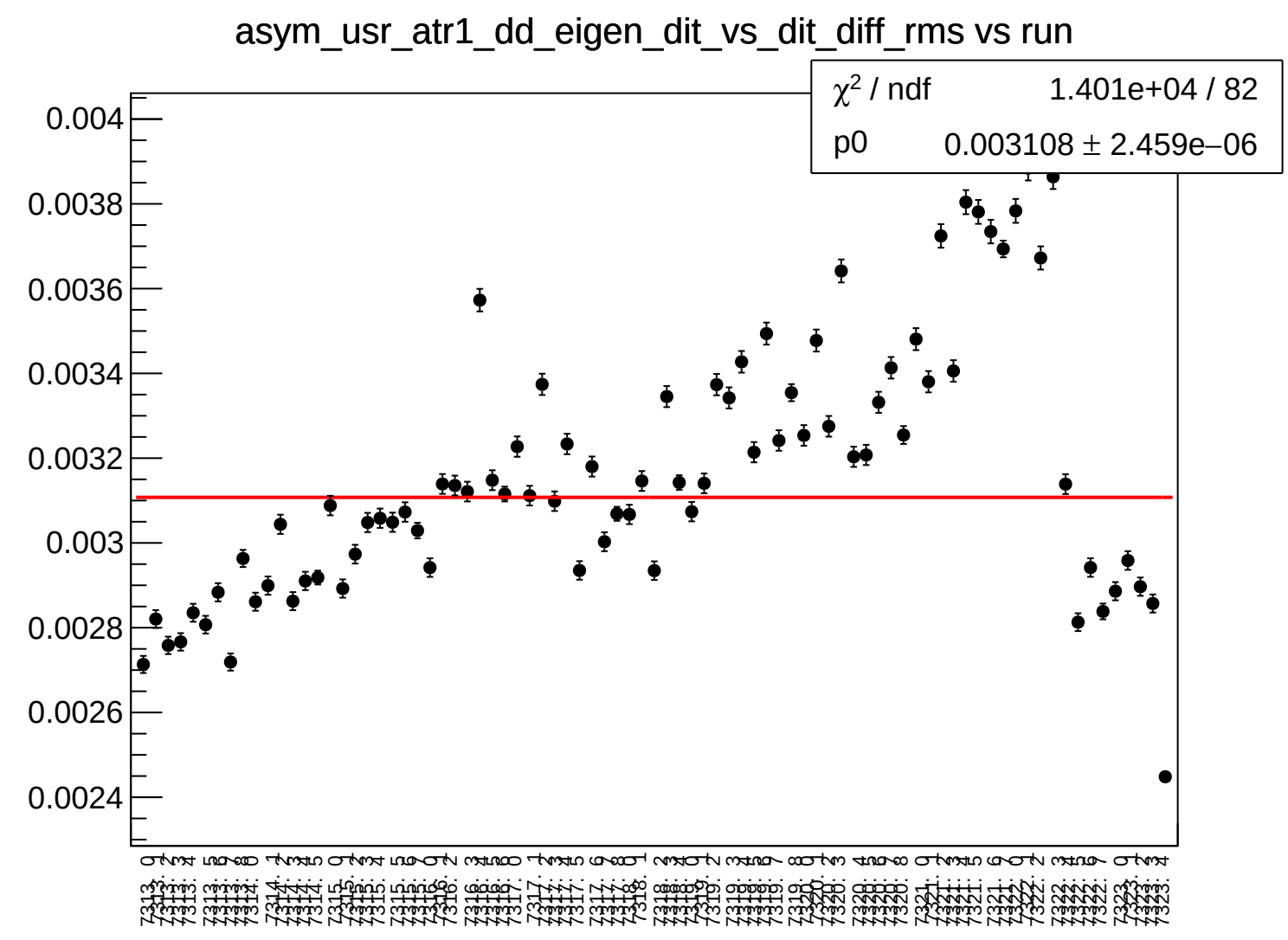

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.11 / 82
p0 −0.003598 ± 0.0625
pull
Entries 83
Mean 46.04
Std Dev 61.2
pull1D
Entries 83
Mean −0.02195
Std Dev 1.03

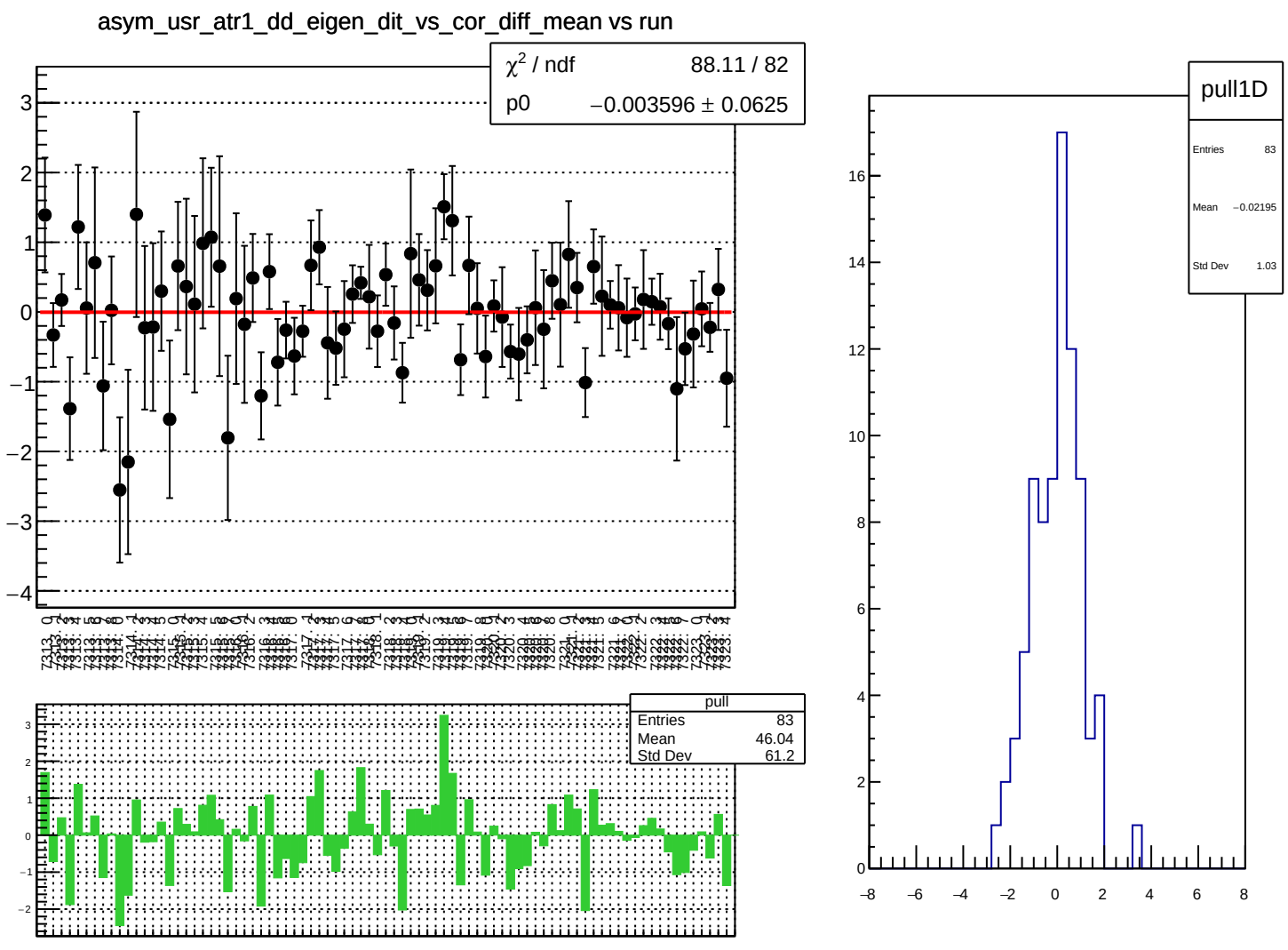

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+05 / 82
p0 52.01 ± 0.04419
160
140
120
100
80
60
40
20

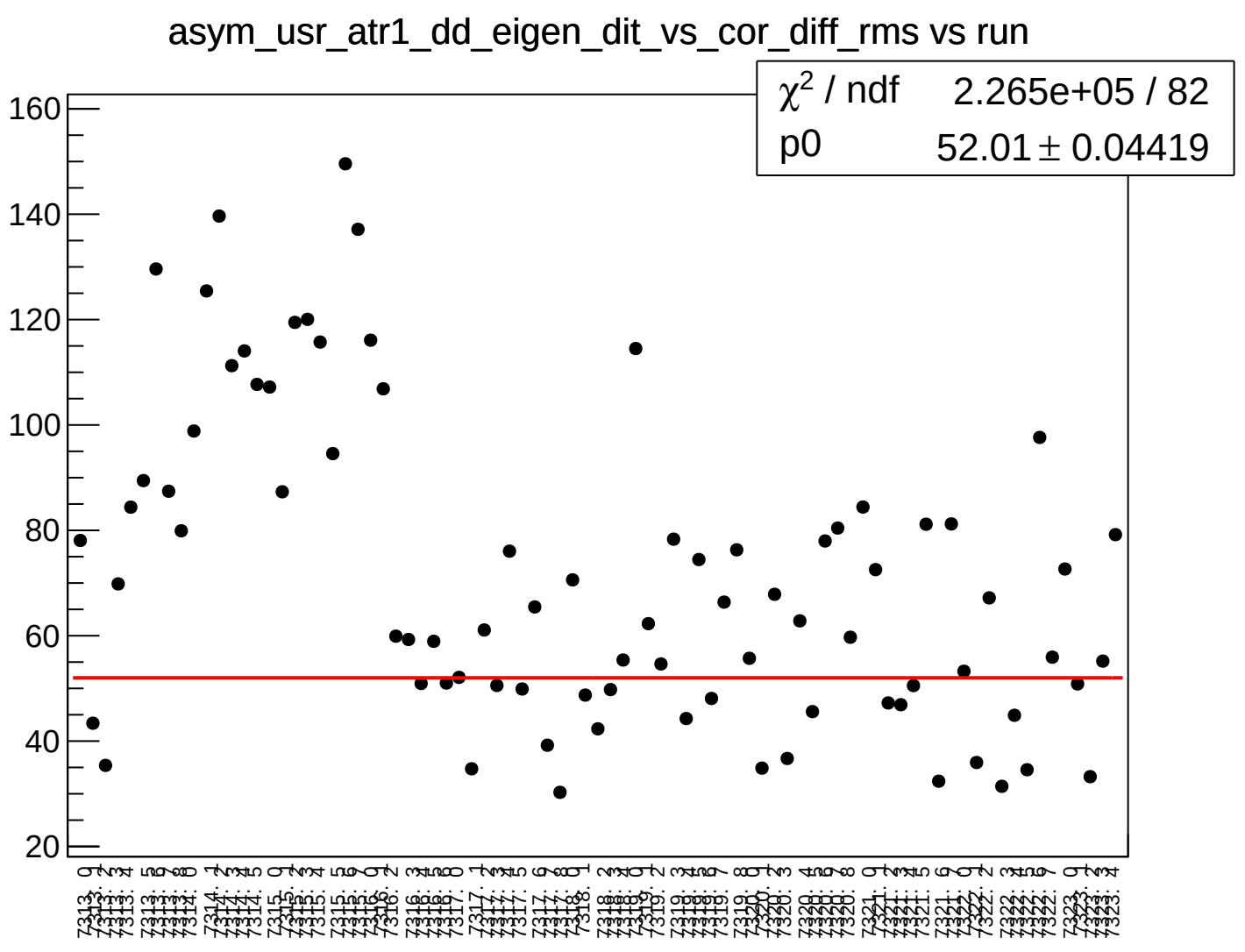

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.11 / 82
p0 −0.003598 ± 0.0625
pull
Entries 83
Mean 46.04
Std Dev 61.2
pull1D
Entries 83
Mean −0.02195
Std Dev 1.03

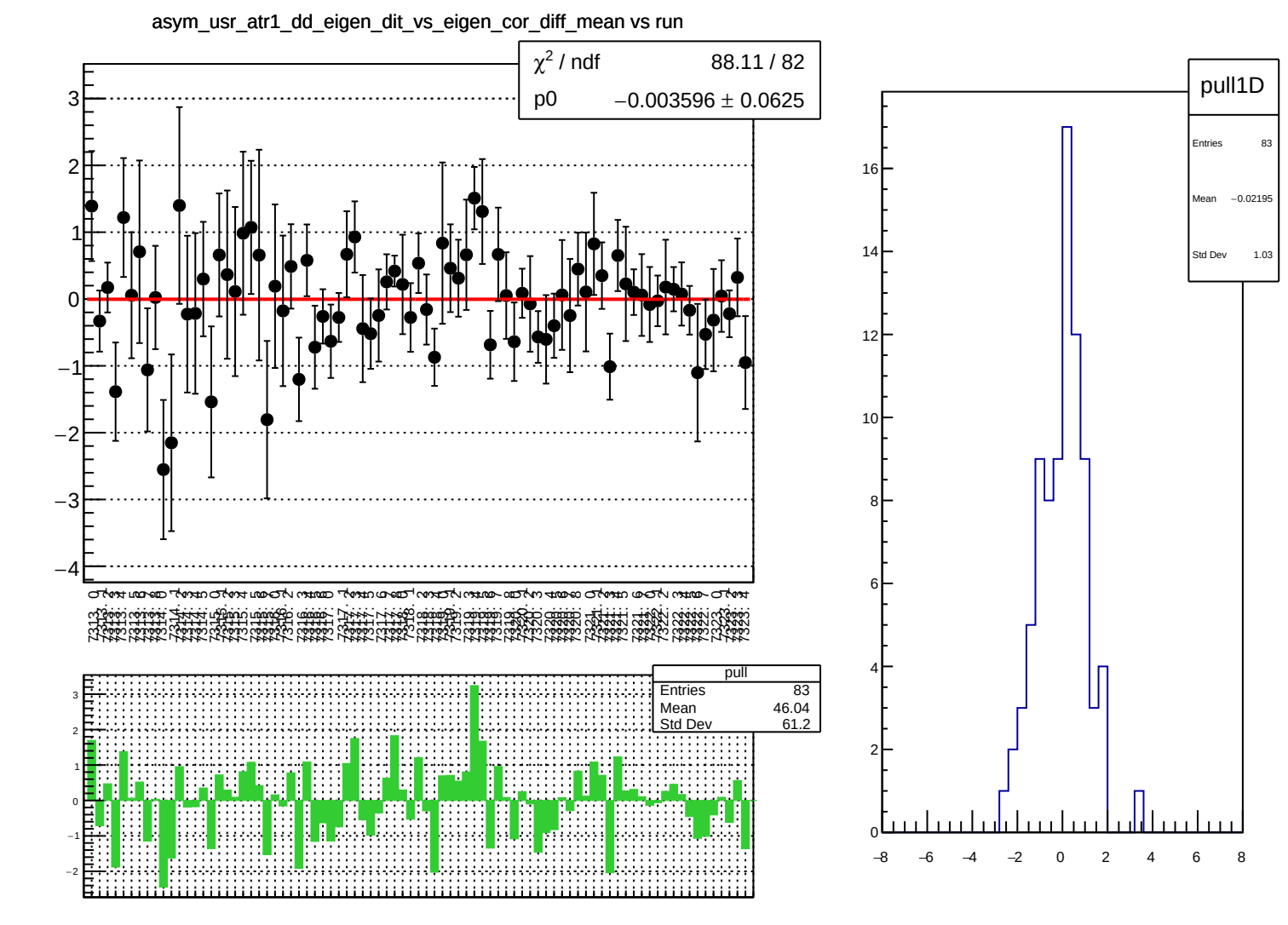

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+05 / 82
p0 52.01 ± 0.04419
160
140
120
100
80
60
40
20

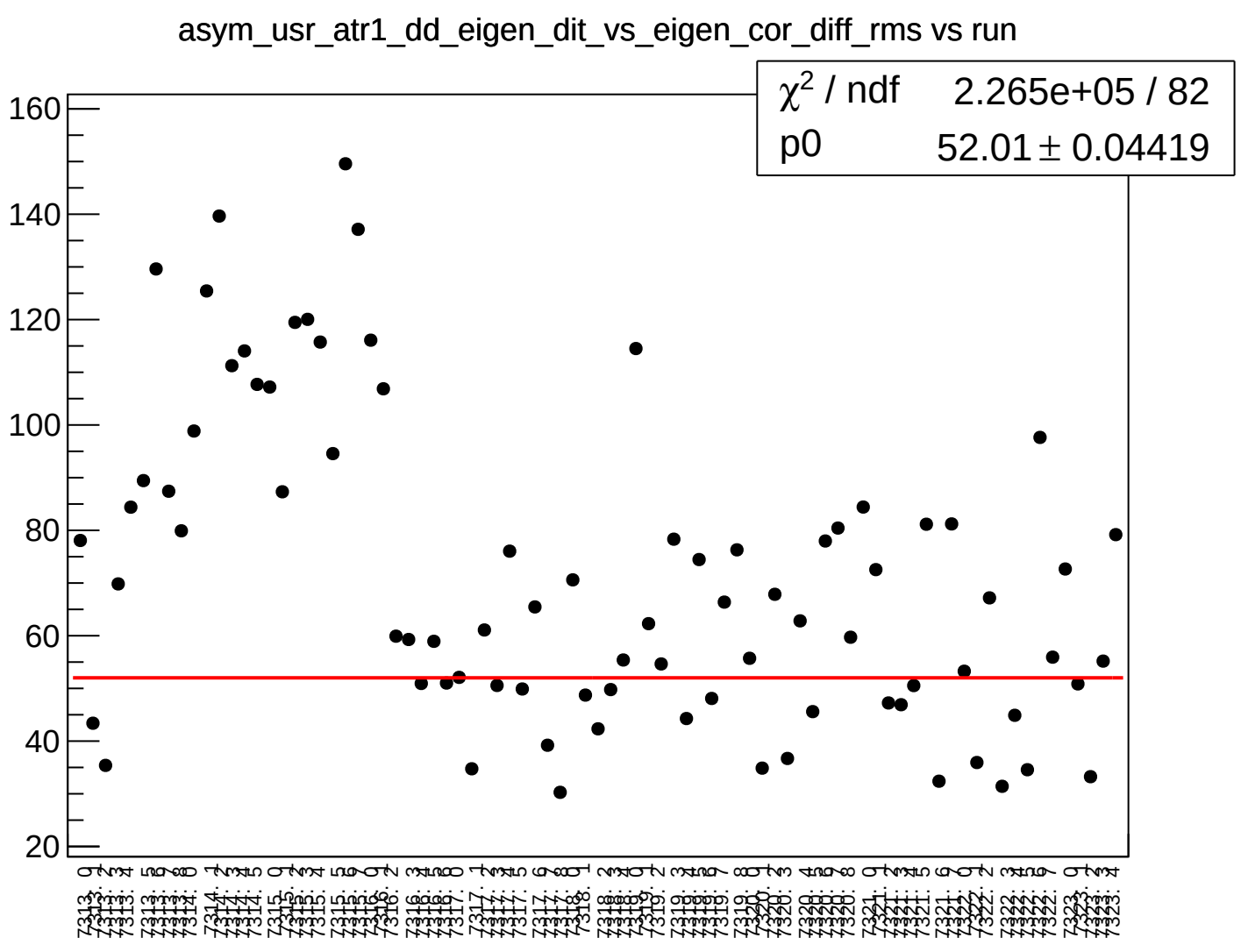

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.22 / 82
p0 4.547e−06 ± 3.477e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean 2338
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.001819
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

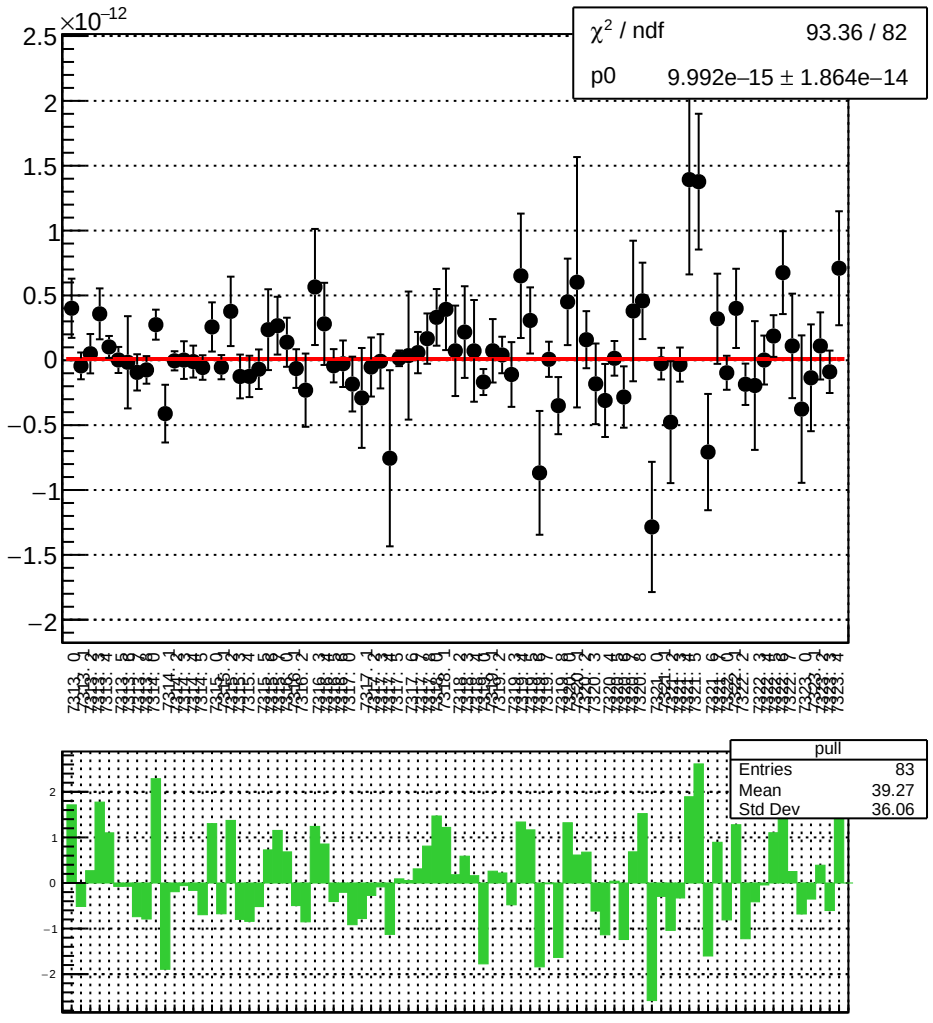

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.401e+04 / 82
p0 0.003108 ± 2.459e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

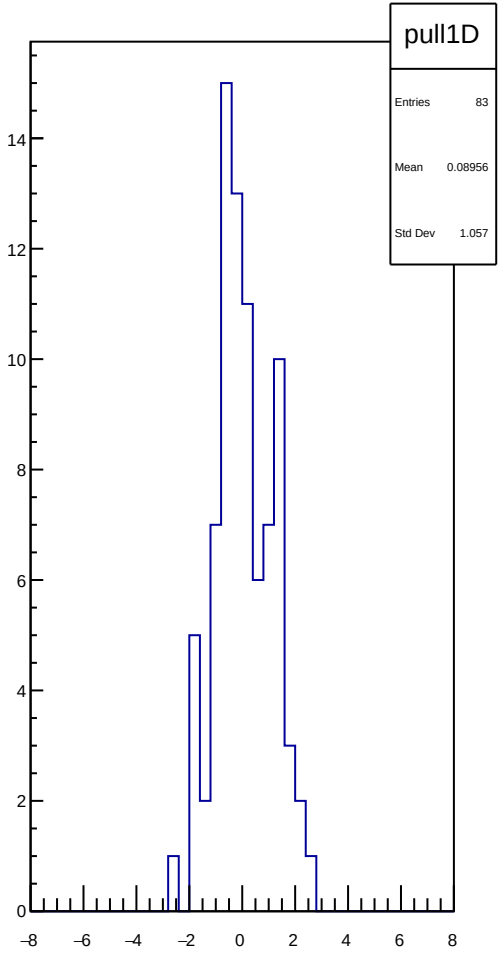

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.11 / 82
p0 −0.003596 ± 0.0625
pull
Entries 83
Mean 46.04
Std Dev 61.2
pull1D
Entries 83
Mean −0.02195
Std Dev 1.03

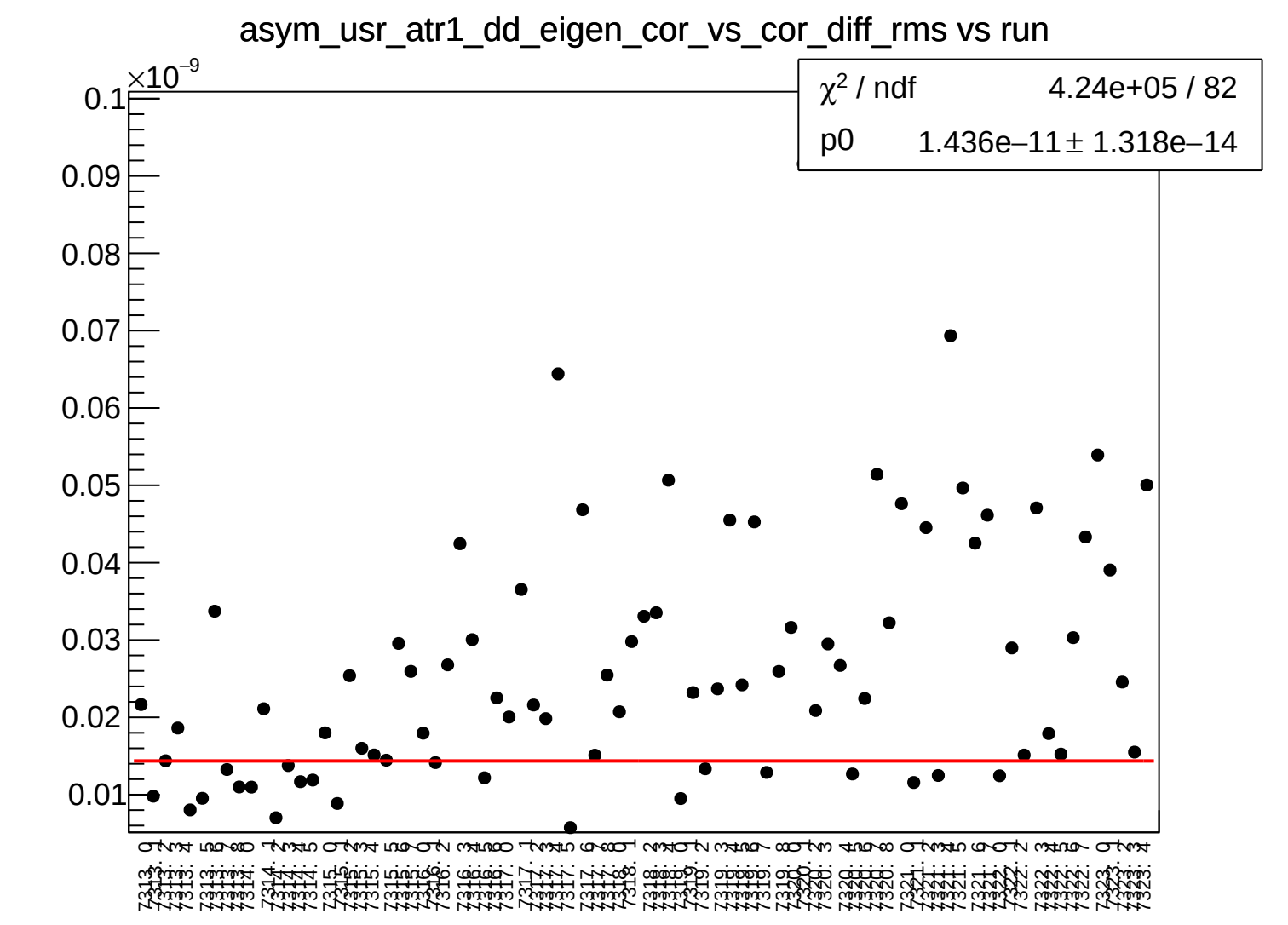

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+05 / 82
p0 52.01 ± 0.04419
160
140
120
100
80
60
40
20

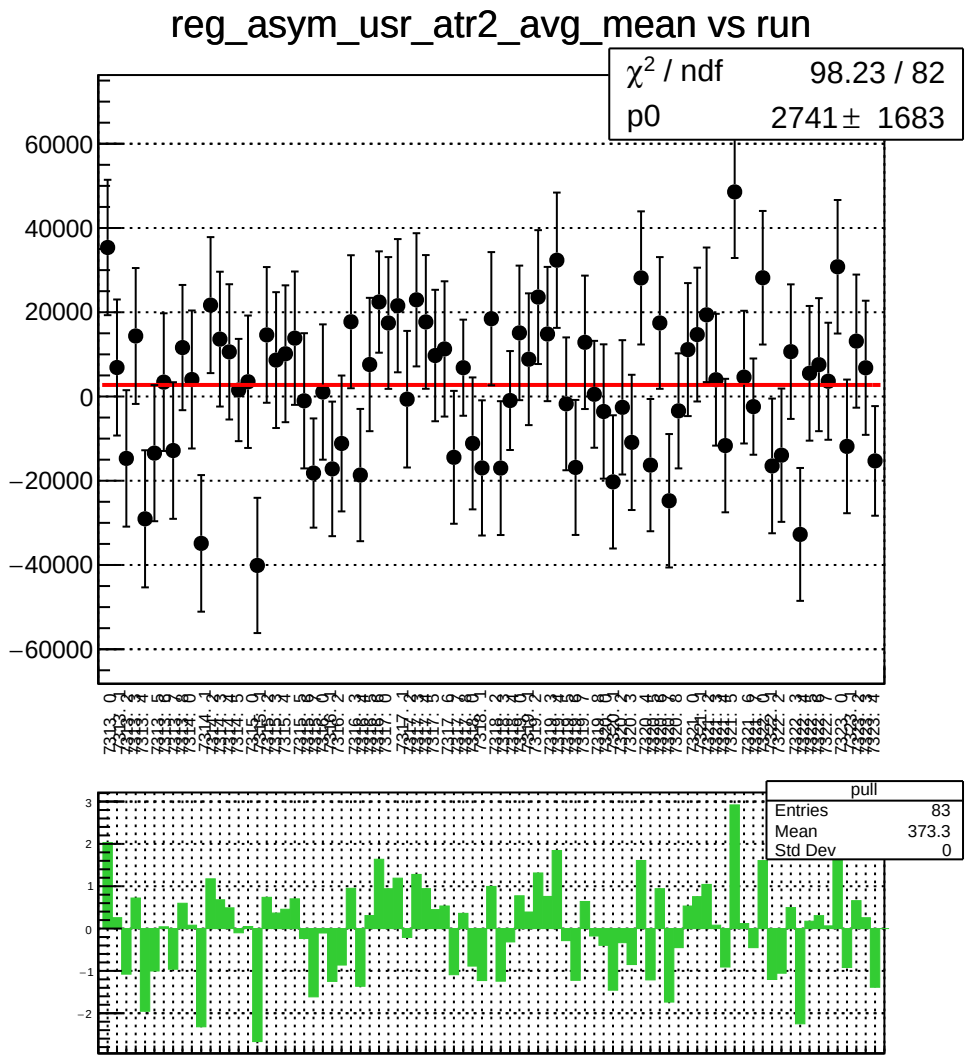

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.11 / 82
p0 −0.003596 ± 0.0625
pull
Entries 83
Mean 46.04
Std Dev 61.2
pull1D
Entries 83
Mean −0.02195
Std Dev 1.03

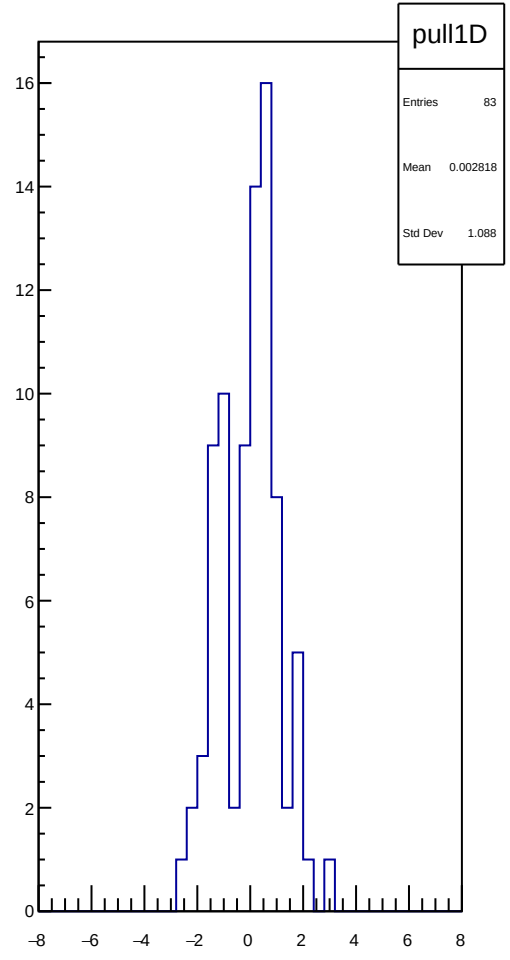

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+05 / 82
p0 52.01 ± 0.04419
160
140
120
100
80
60
40
20

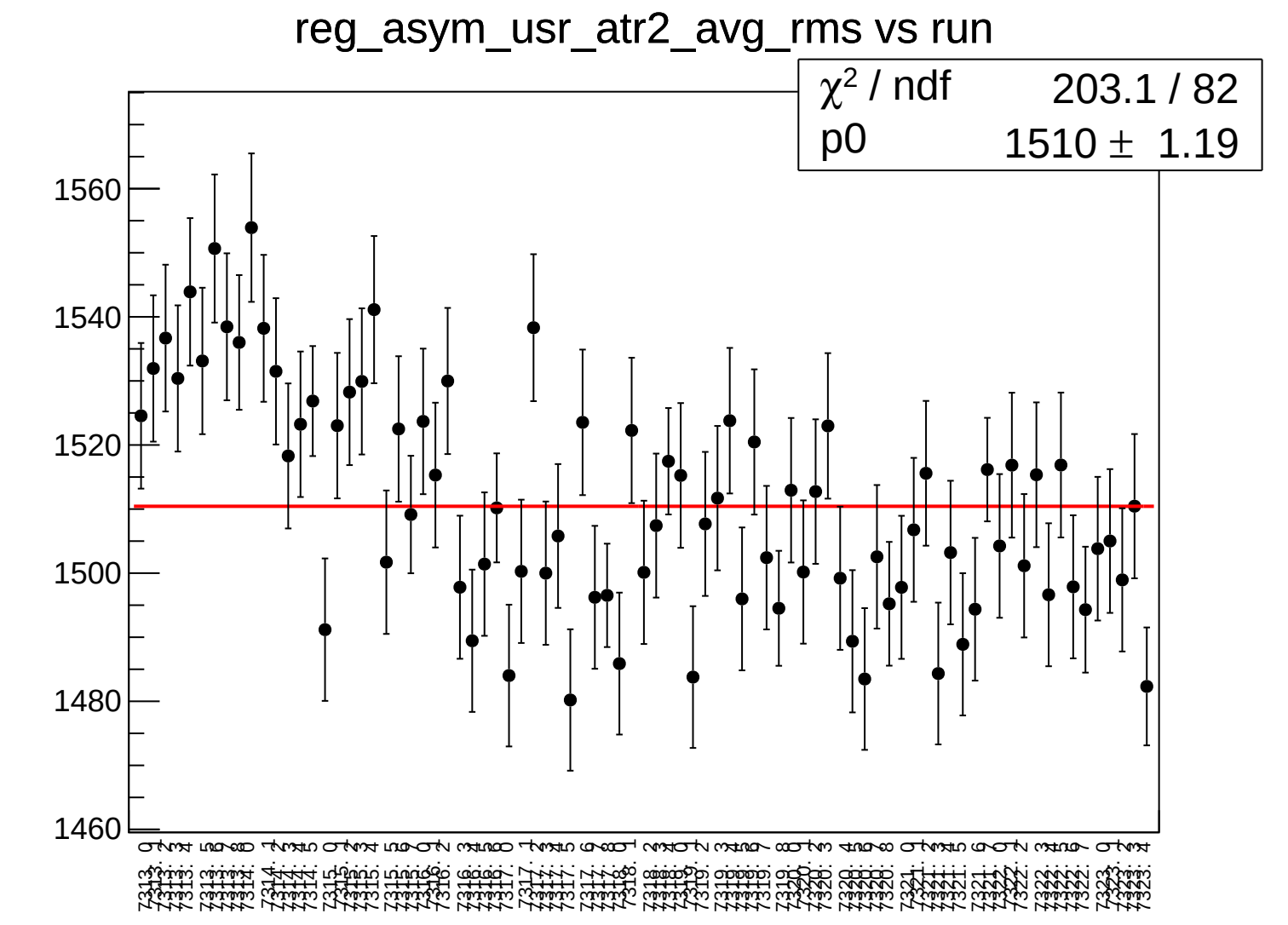

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.36 / 82
p0 9.992e−15 ± 1.864e−14
pull
Entries 83
Mean 39.27
Std Dev 36.06

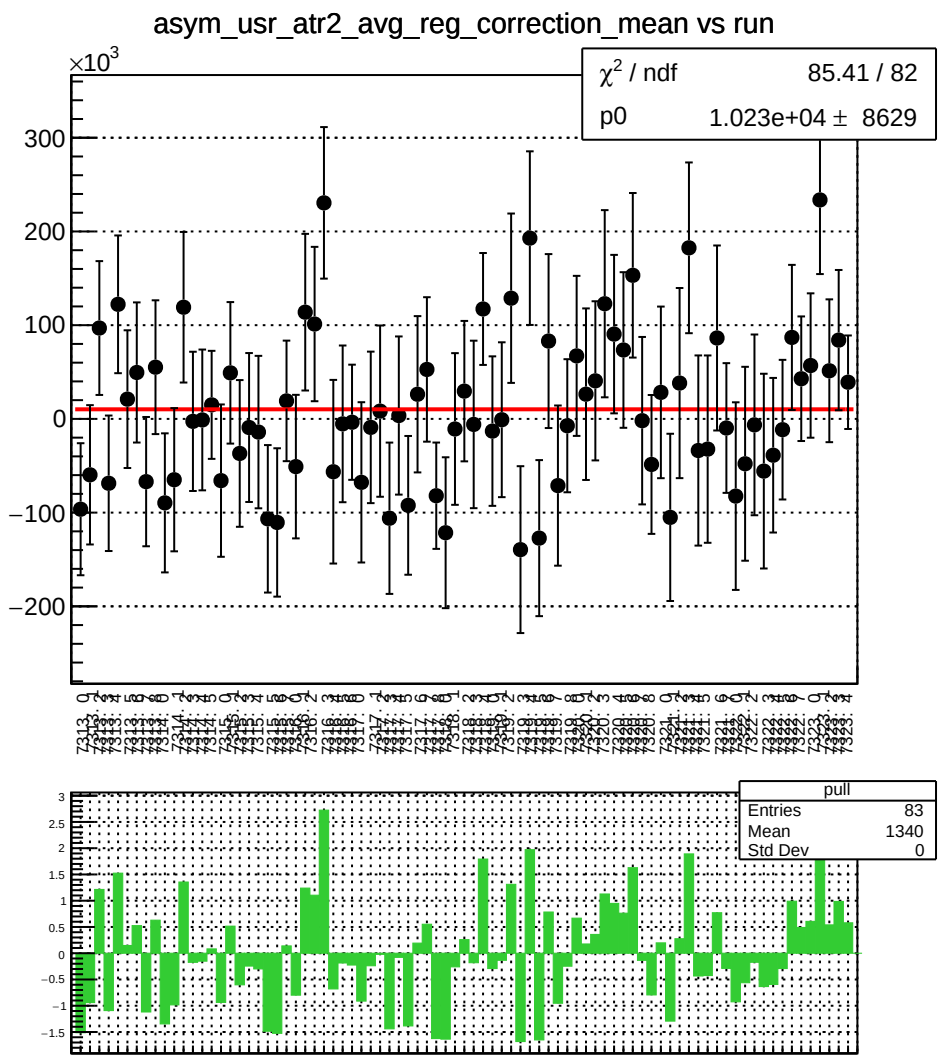

pull1D
Entries 83
Mean 0.08956
Std Dev 1.057

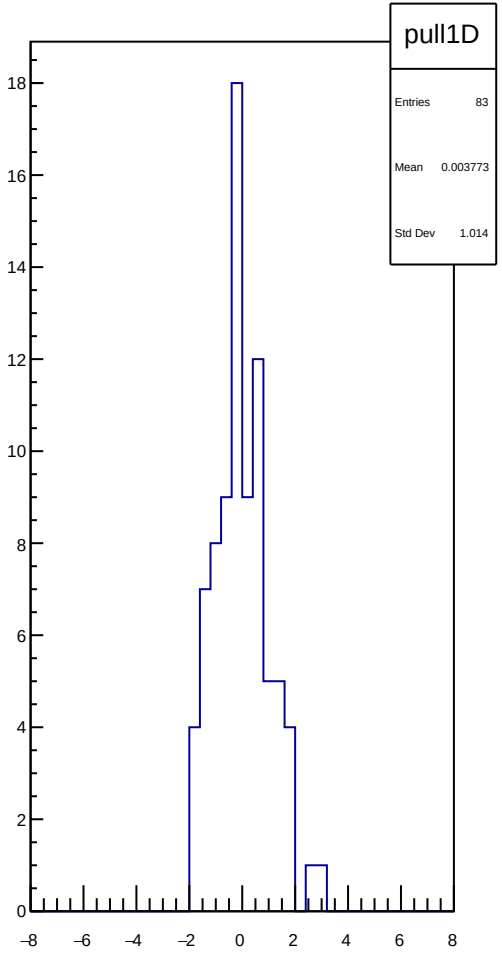

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.24e+05 / 82
p0 1.436e−11 ± 1.318e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

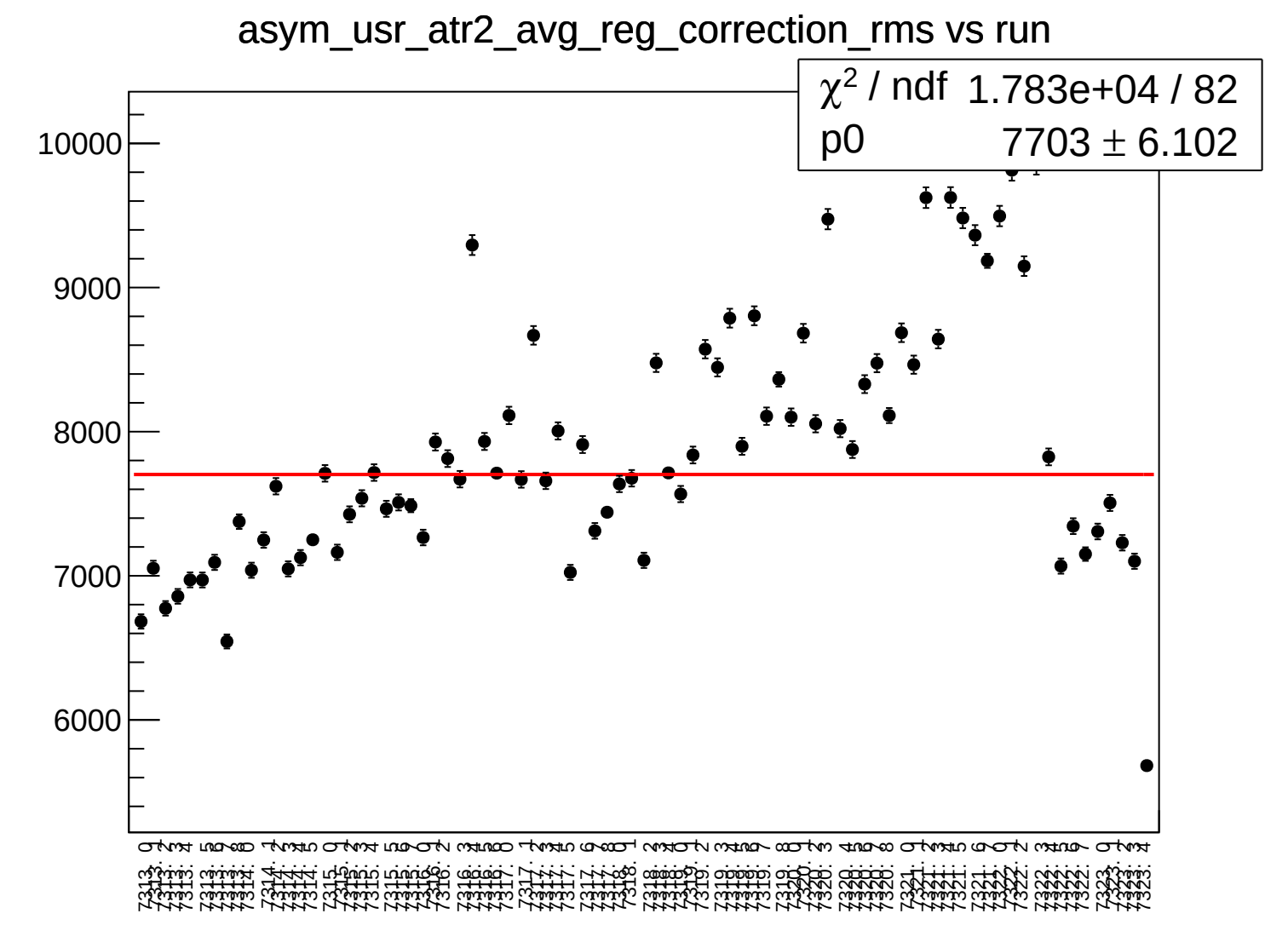

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 98.23 / 82
p0 2741 ± 1683
pull
Entries 83
Mean 373.3
Std Dev 0

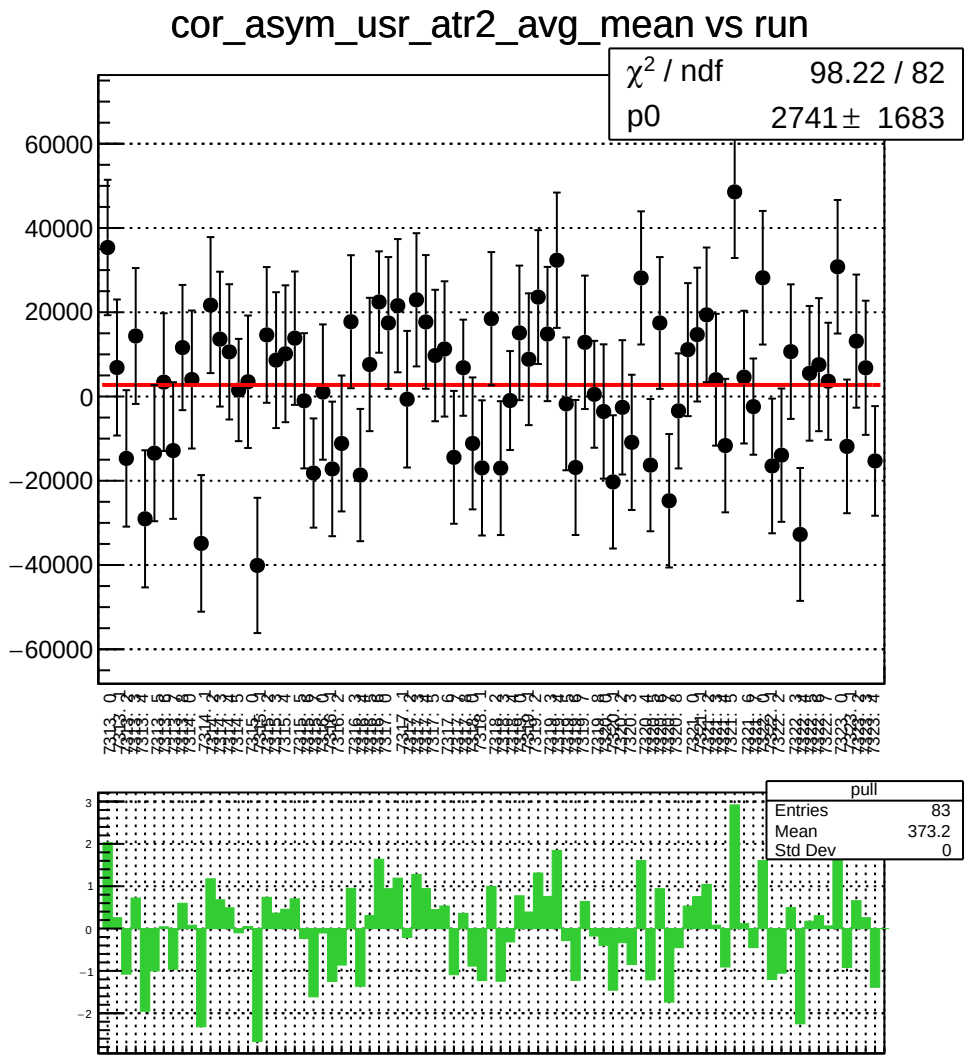

pull1D
Entries 83
Mean 0.002818
Std Dev 1.088

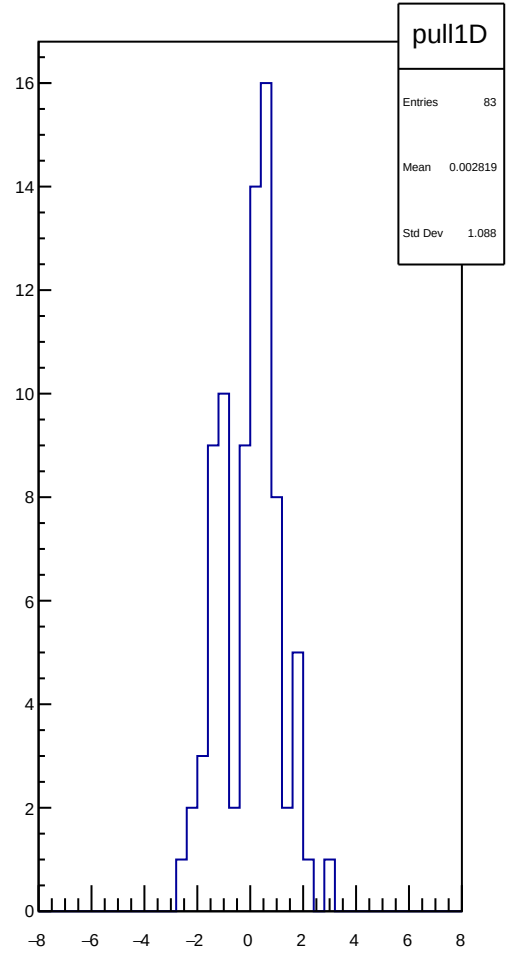

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 203.1 / 82
p0 1510 ± 1.19
1560
1540
1520
1500
1480
1460

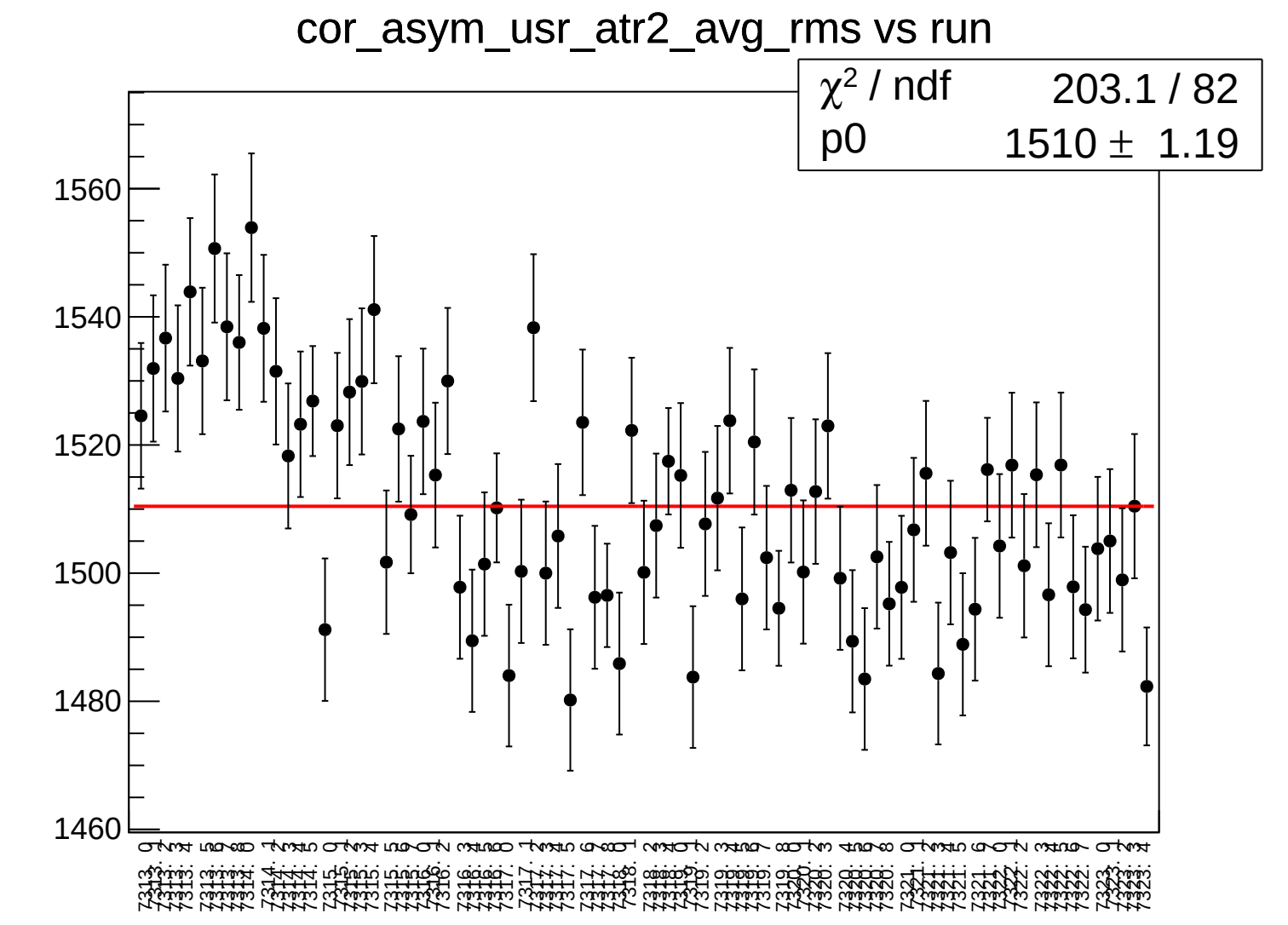

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.41 / 82
p0 1.023e+04 ± 8629
pull
Entries 83
Mean 1340
Std Dev 0

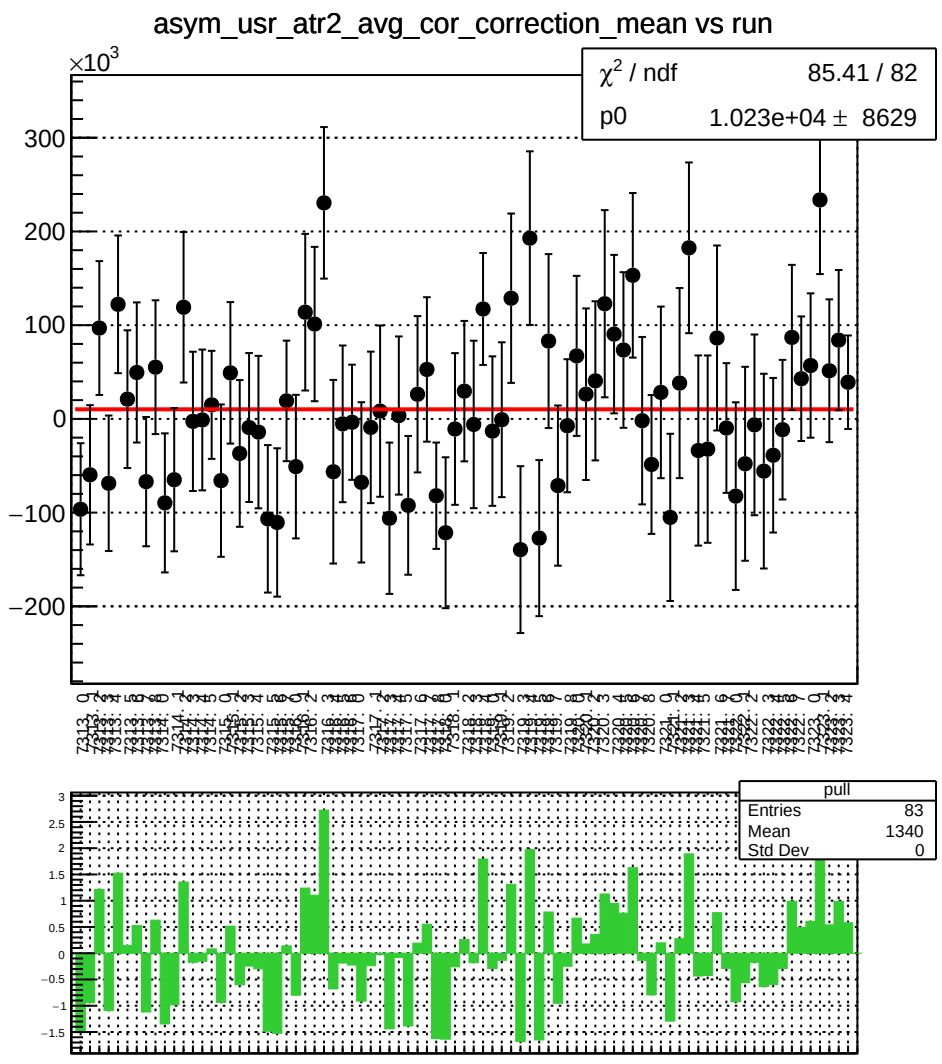

pull1D
Entries 83
Mean 0.003773
Std Dev 1.014

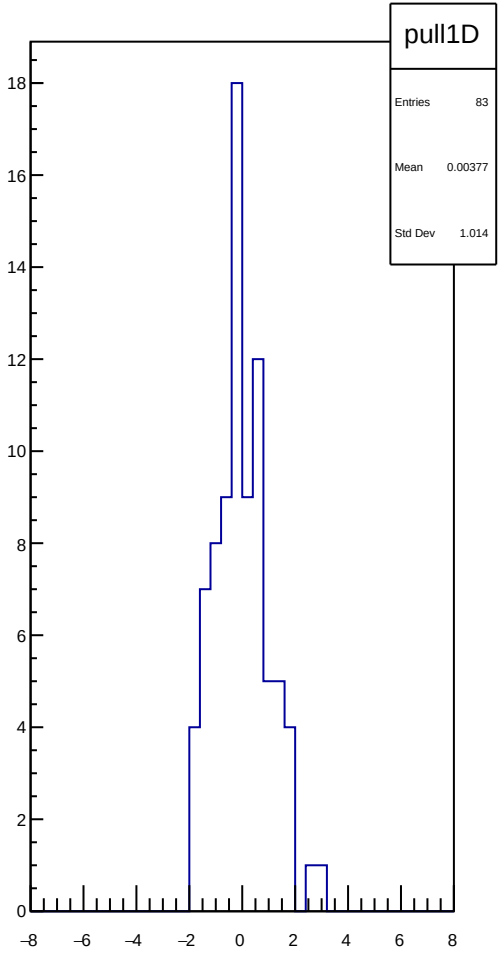

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.783e+04 / 82
p0 7703 ± 6.102
10000
9000
8000
7000
6000

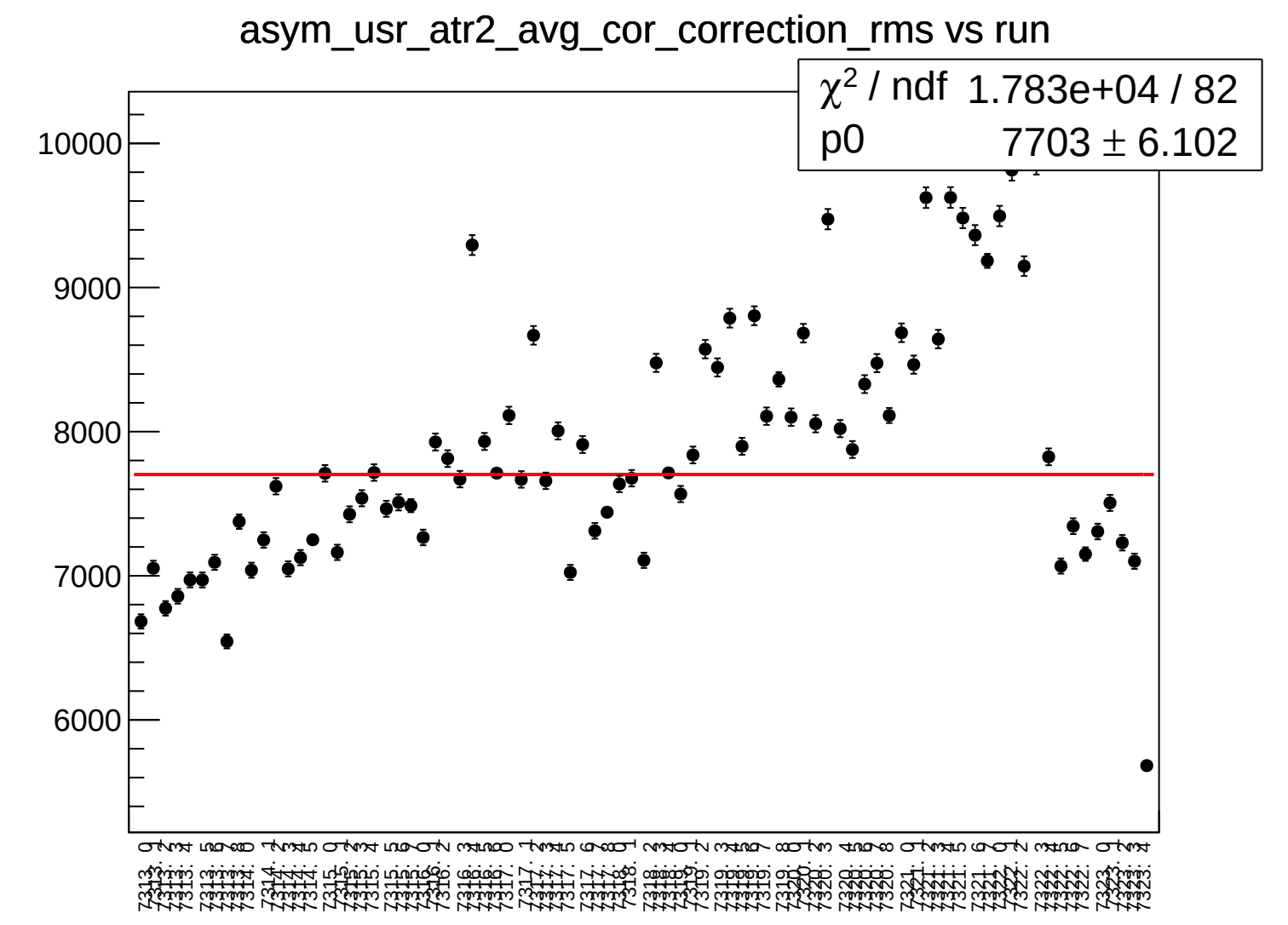

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 98.22 / 82
p0 2741 ± 1683
pull
Entries 83
Mean 373.2
Std Dev 0

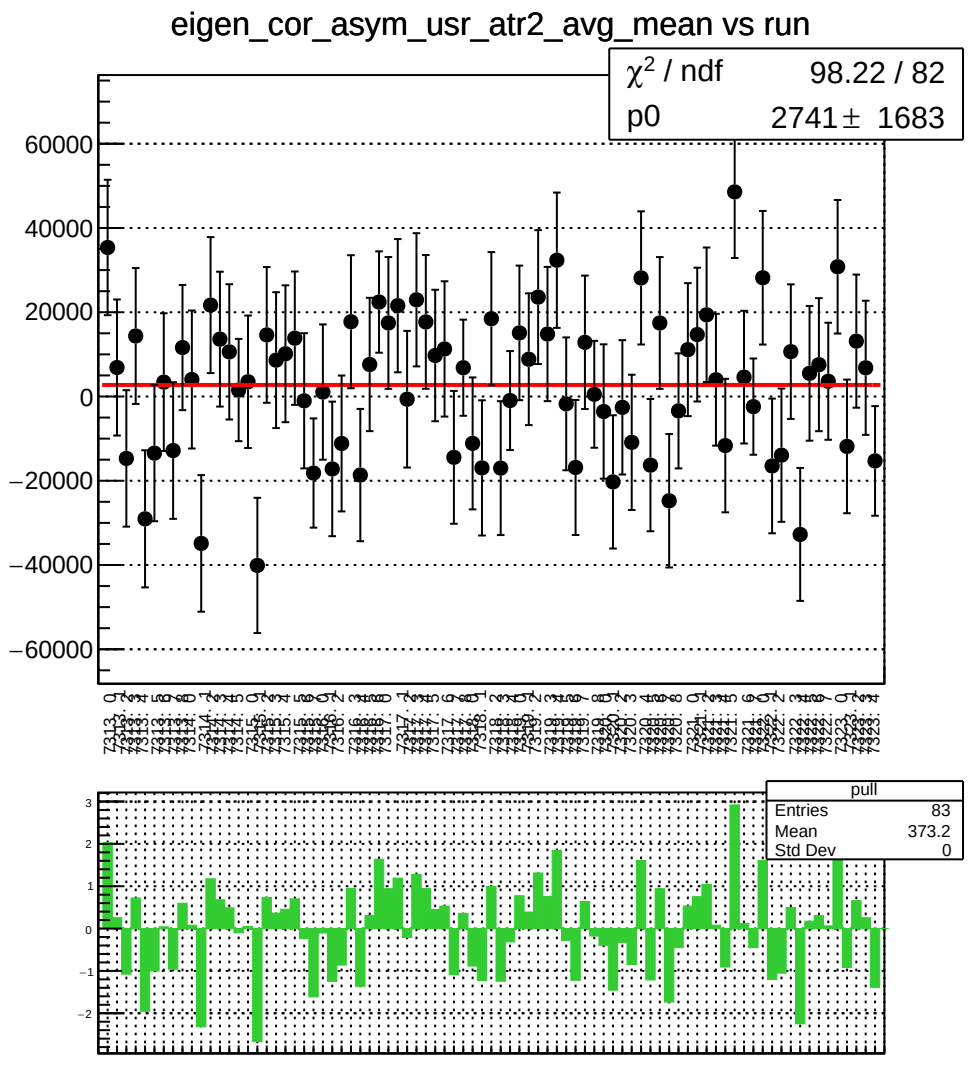

pull1D
Entries 83
Mean 0.002819
Std Dev 1.088

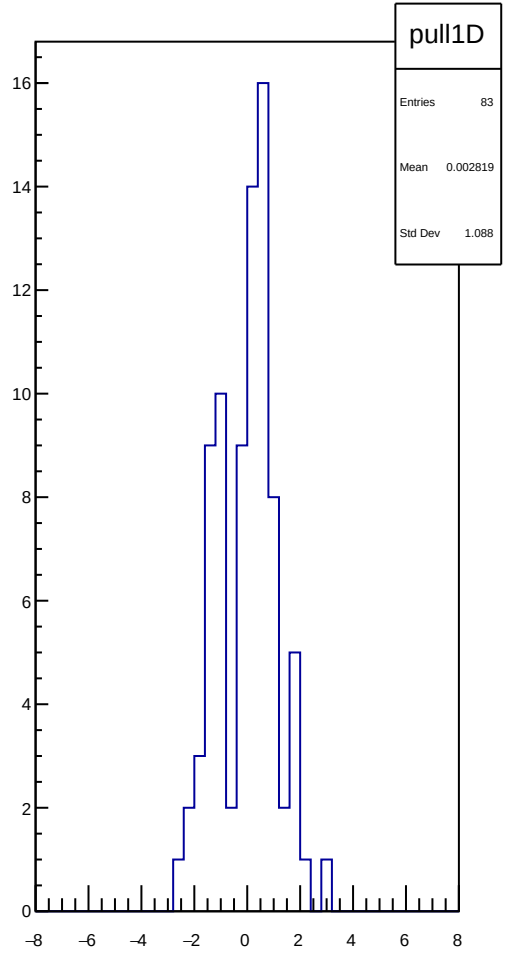

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 203.1 / 82
p0 1510 ± 1.19
1560
1540
1520
1500
1480
1460

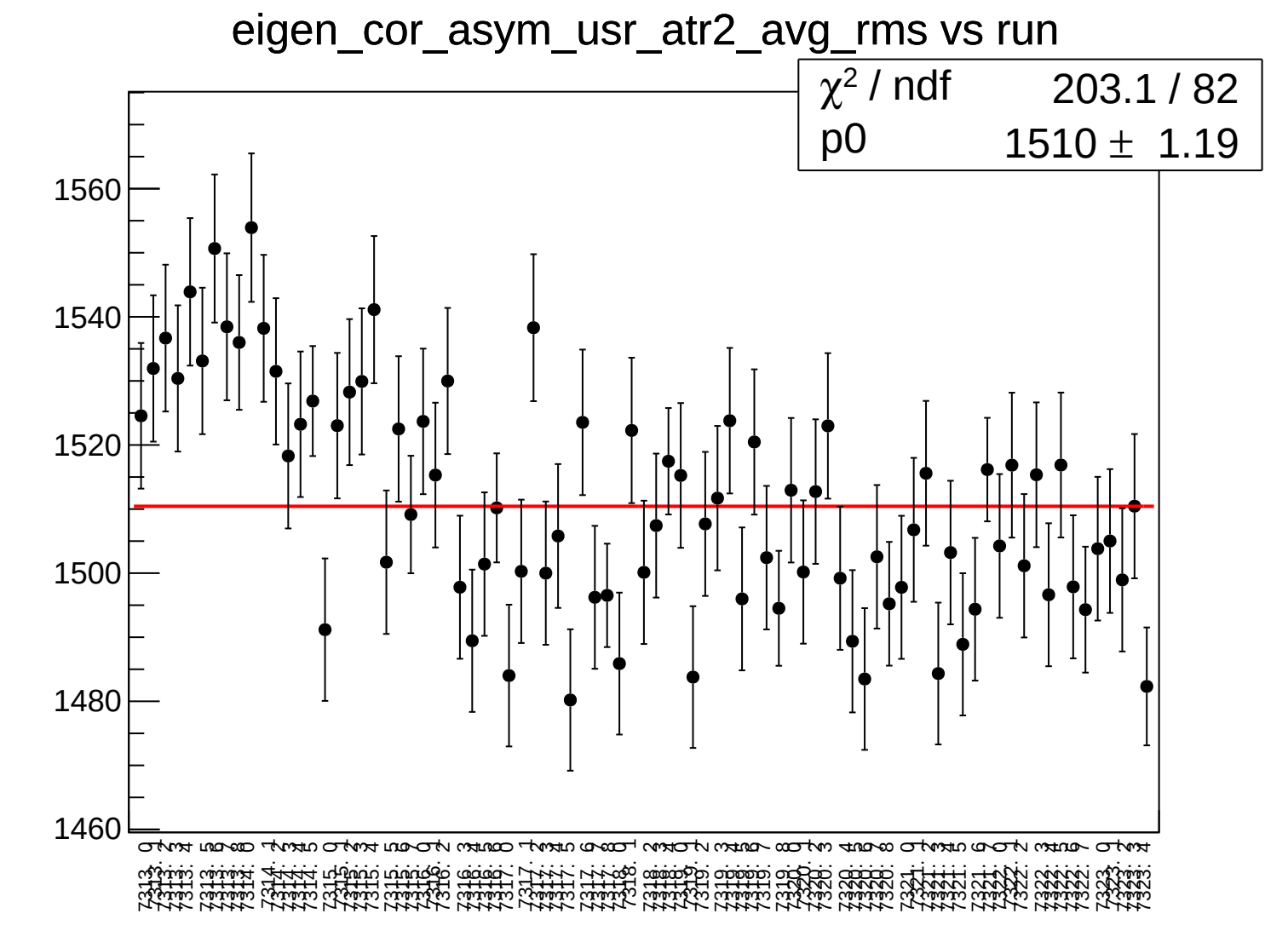

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.41 / 82
p0 1.023e+04 ± 8629
pull
Entries 83
Mean 1340
Std Dev 0

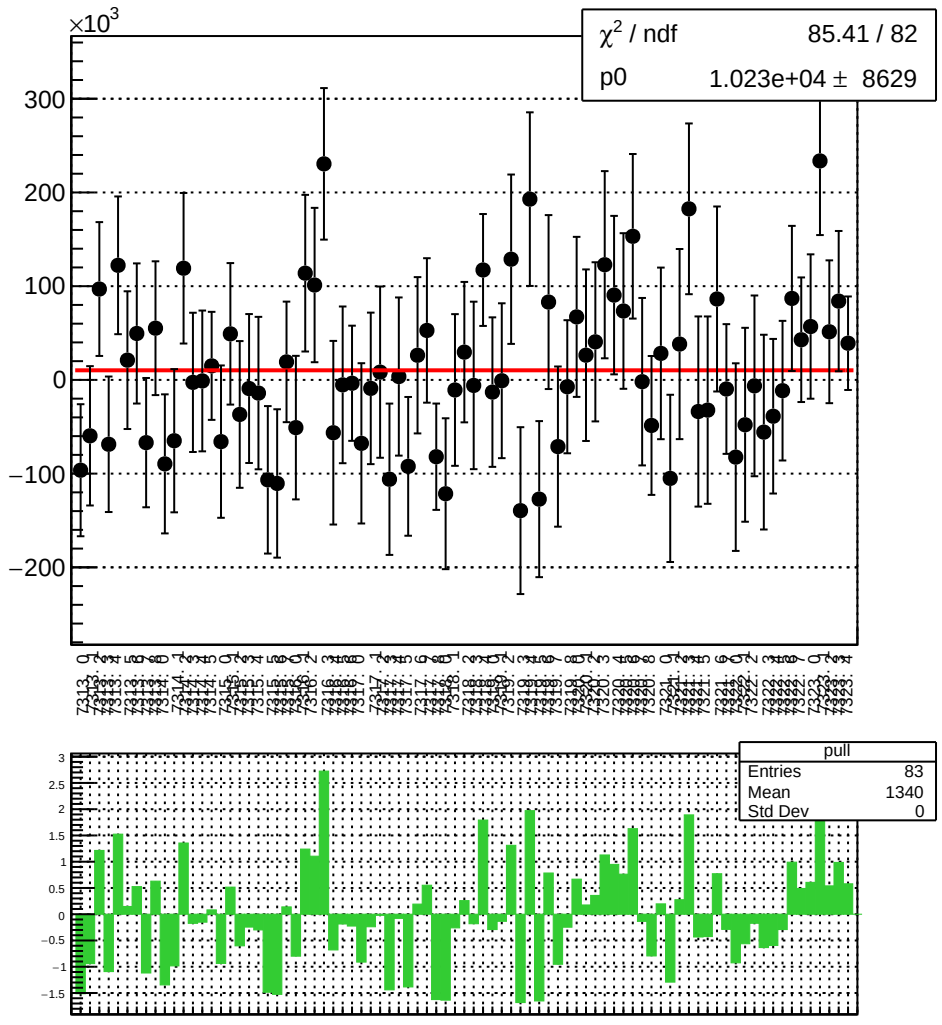

pull1D
Entries 83
Mean 0.00377
Std Dev 1.014

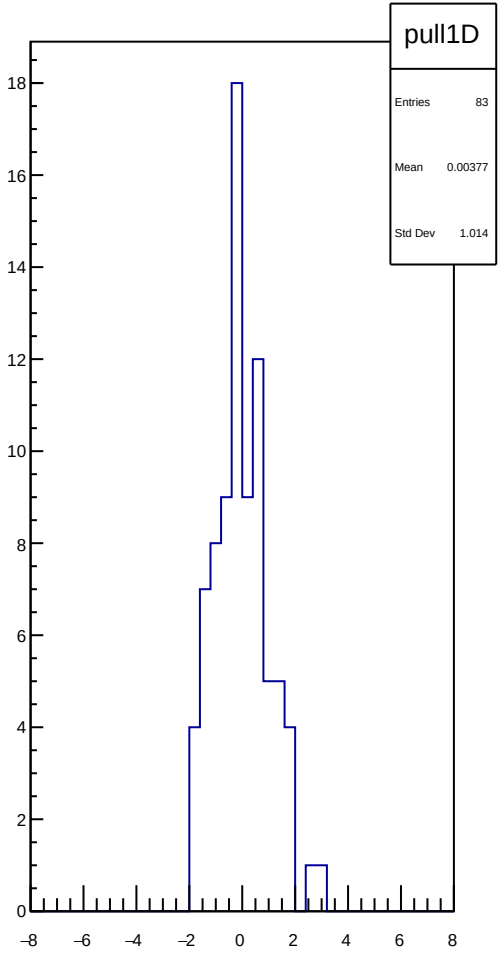

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.783e+04 / 82
p0 7703 ± 6.102
10000
9000
8000
7000
6000

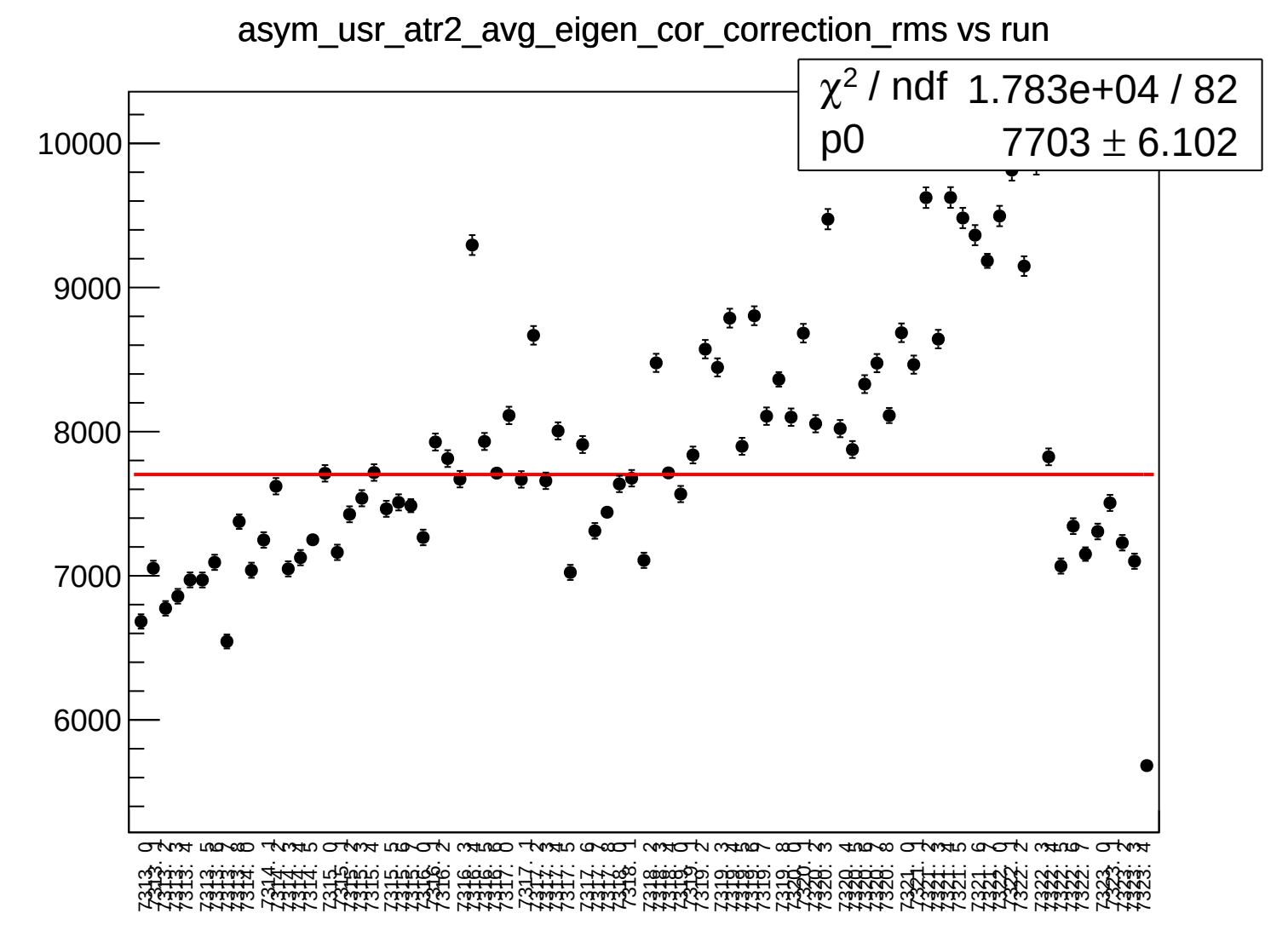

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 98.22 / 82
p0 2741 ± 1683
pull
Entries 83
Mean 373.2
Std Dev 0

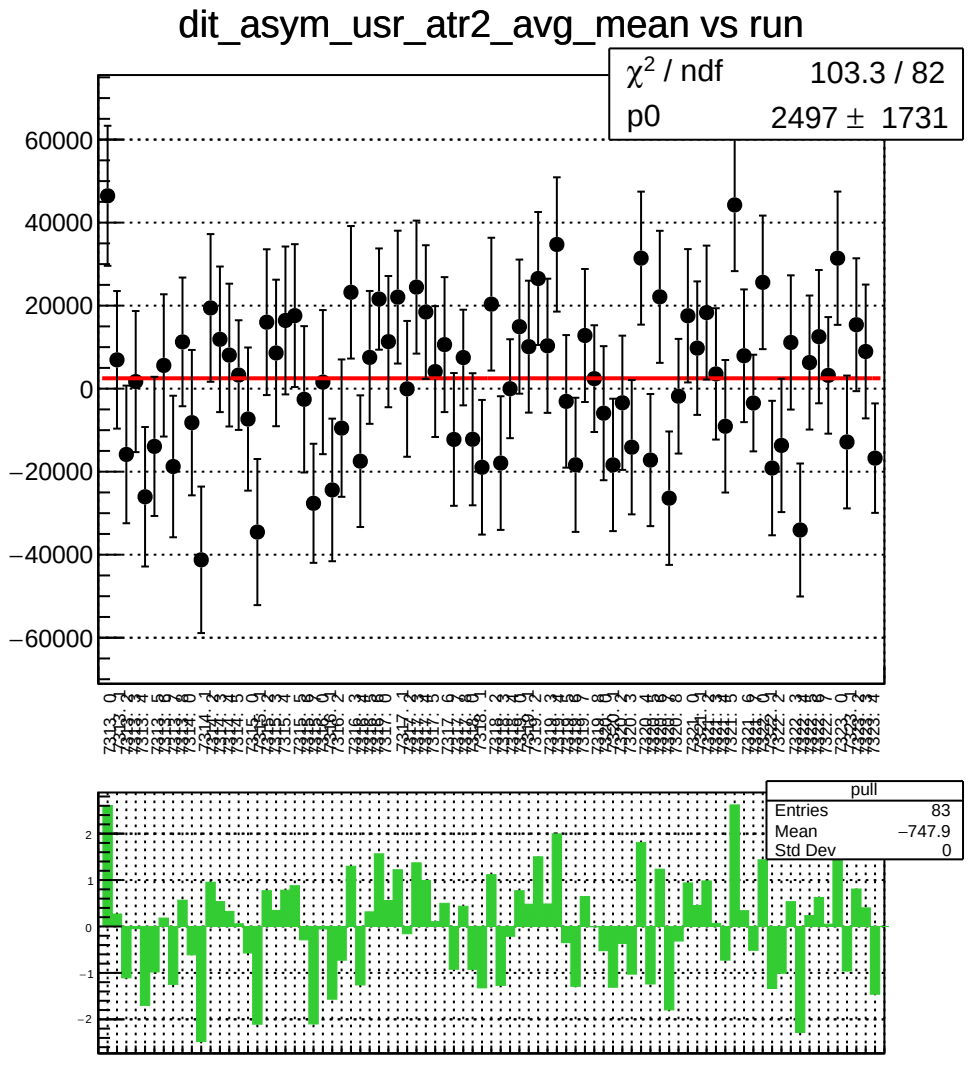

pull1D
Entries 83
Mean 0.002819
Std Dev 1.088

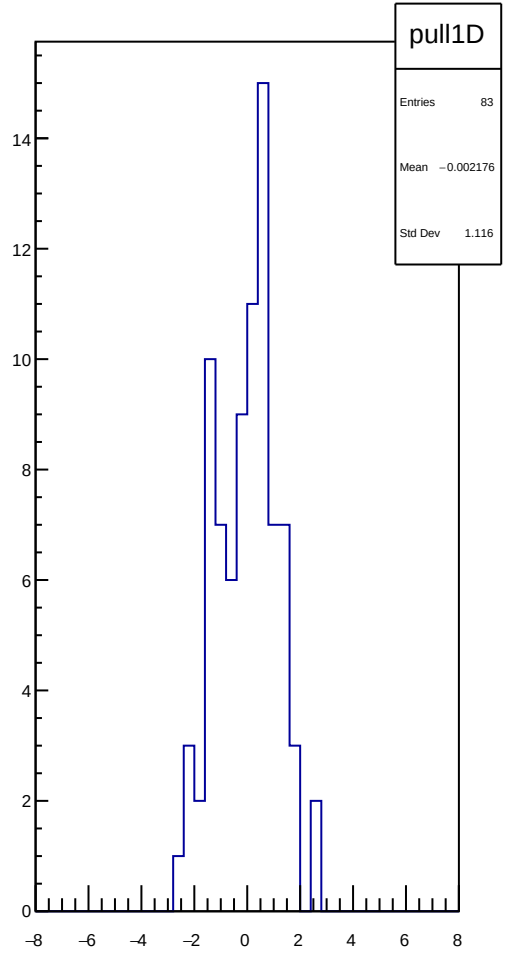

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 203.1 / 82
p0 1510 ± 1.19
1560
1540
1520
1500
1480
1460

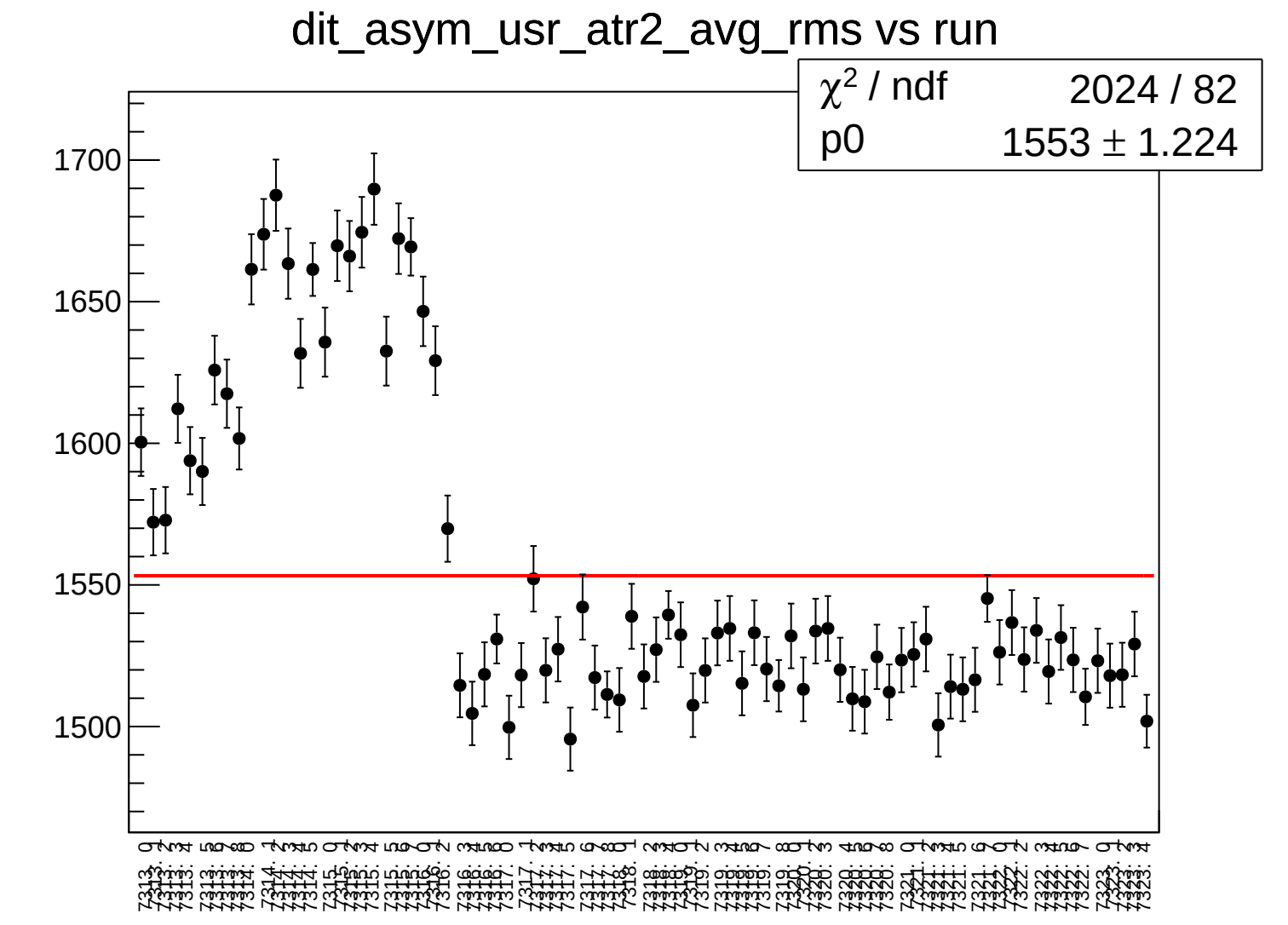

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.41 / 82
p0 1.023e+04 ± 8629
pull
Entries 83
Mean 1340
Std Dev 0

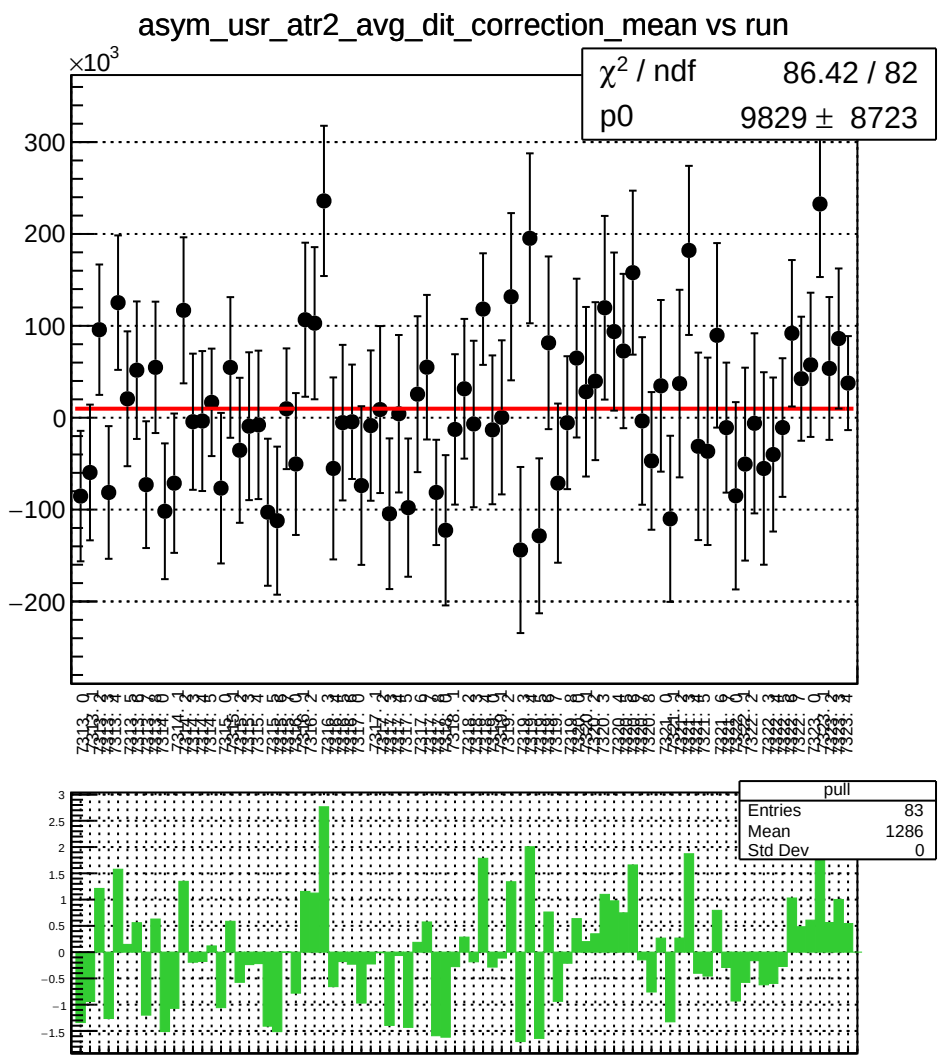

pull1D
Entries 83
Mean 0.00377
Std Dev 1.014

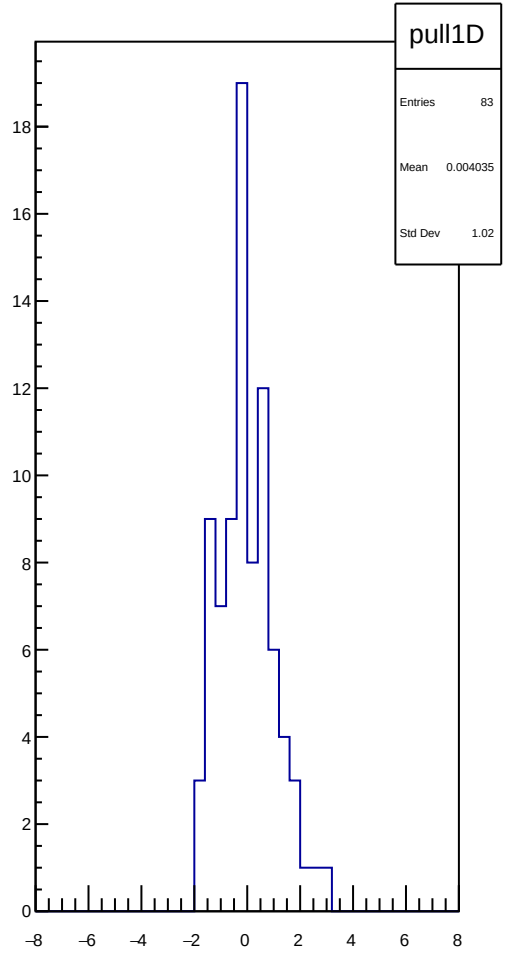

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.783e+04 / 82
p0 7703 ± 6.102
10000
9000
8000
7000
6000

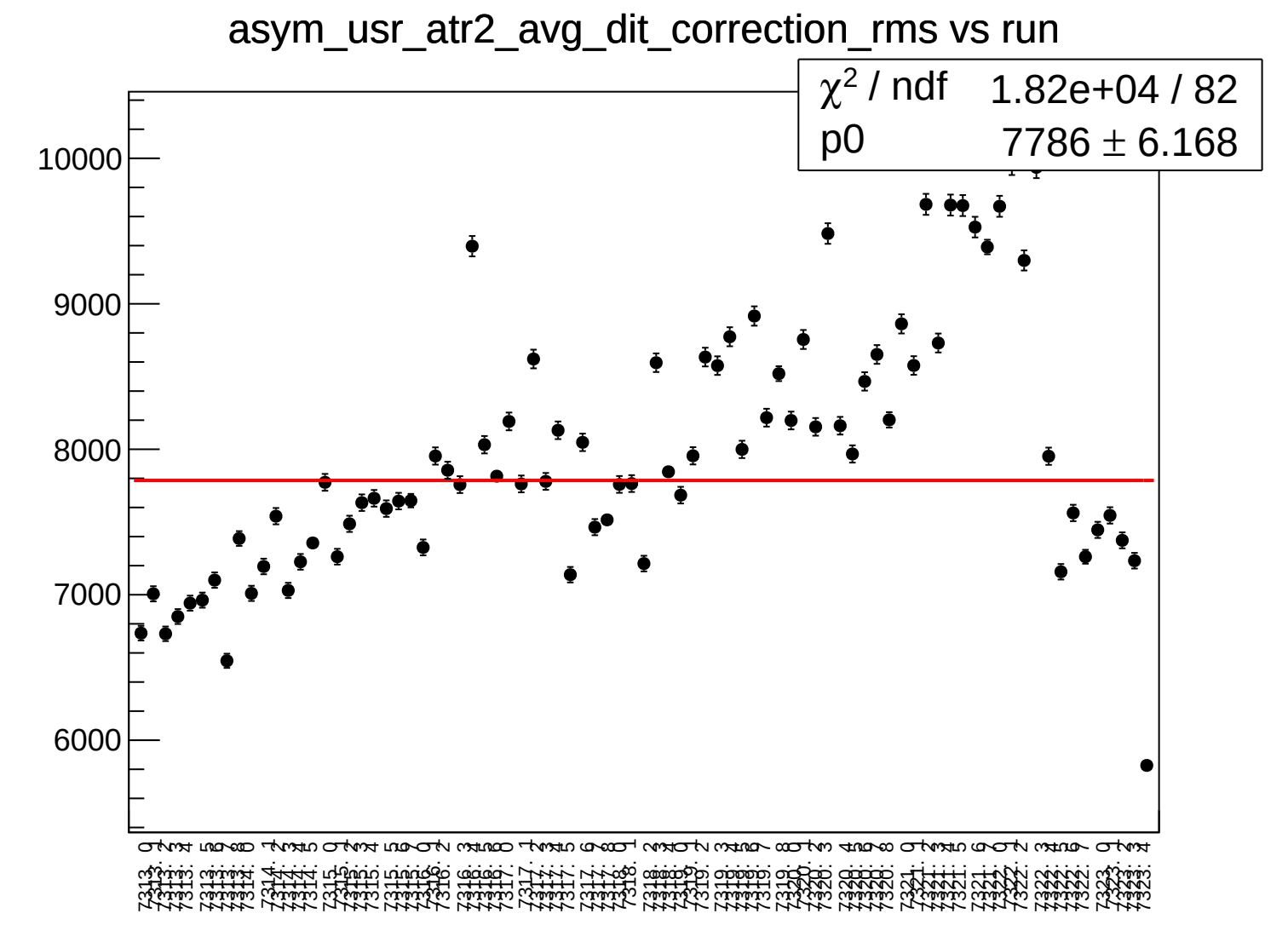

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 103.3 / 82
p0 2497 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −747.9
Std Dev 0
2
1
0
−1
−2

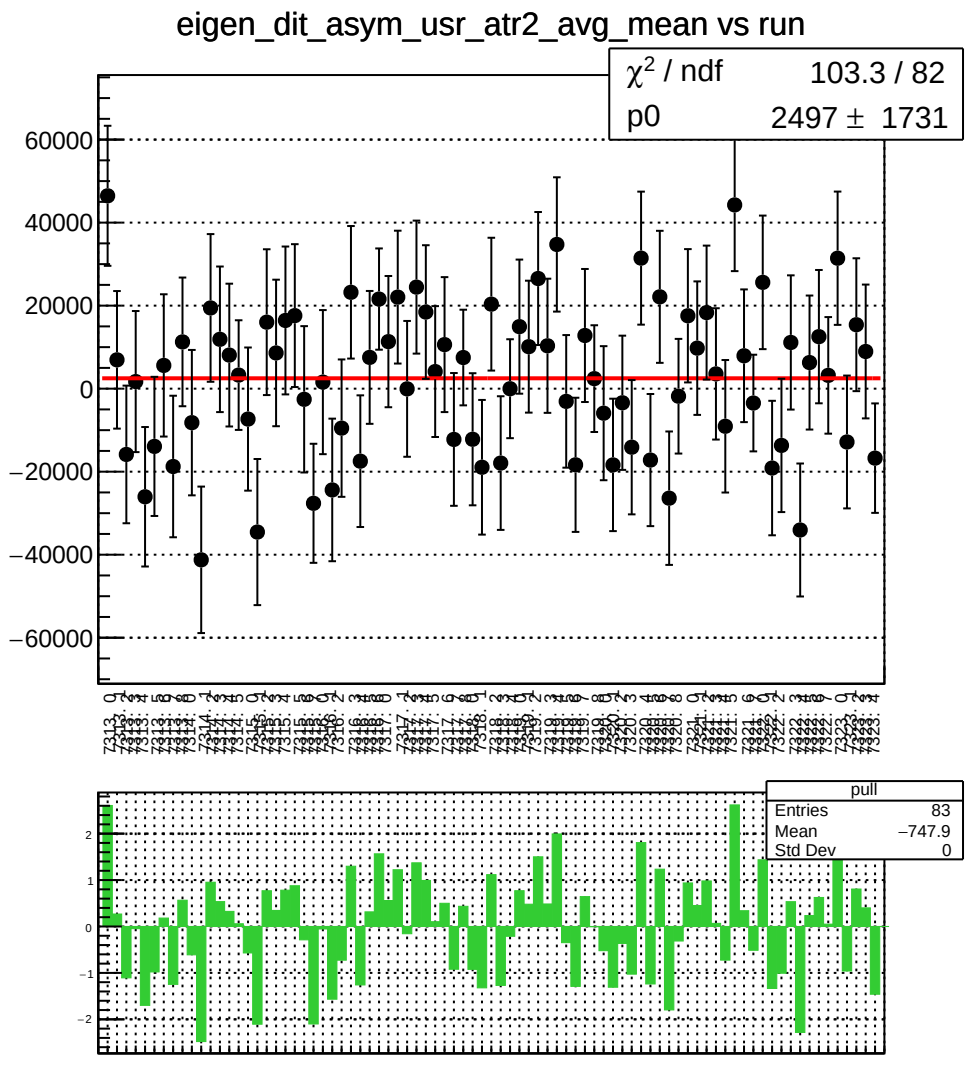

pull1D
Entries 83
Mean −0.002176
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

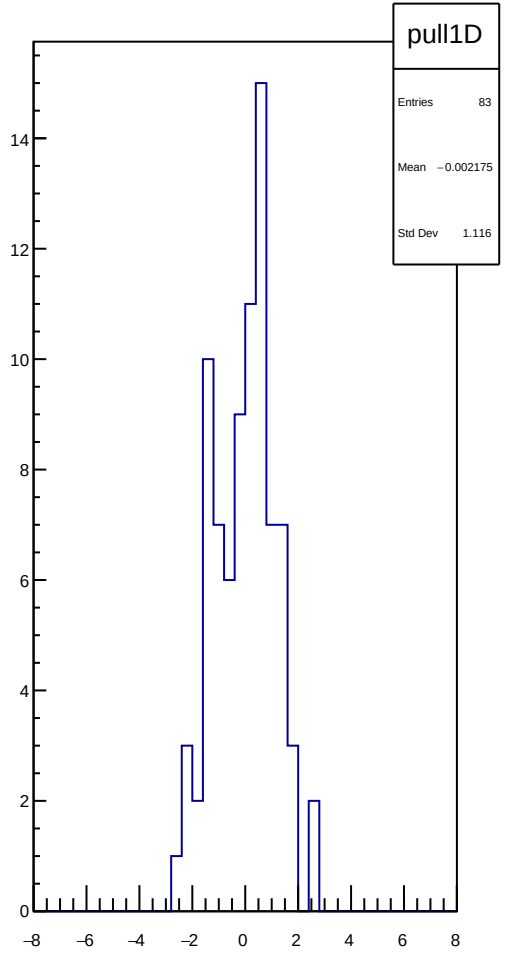

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2024 / 82
p0 1553 ± 1.224
1700
1650
1600
1550
1500

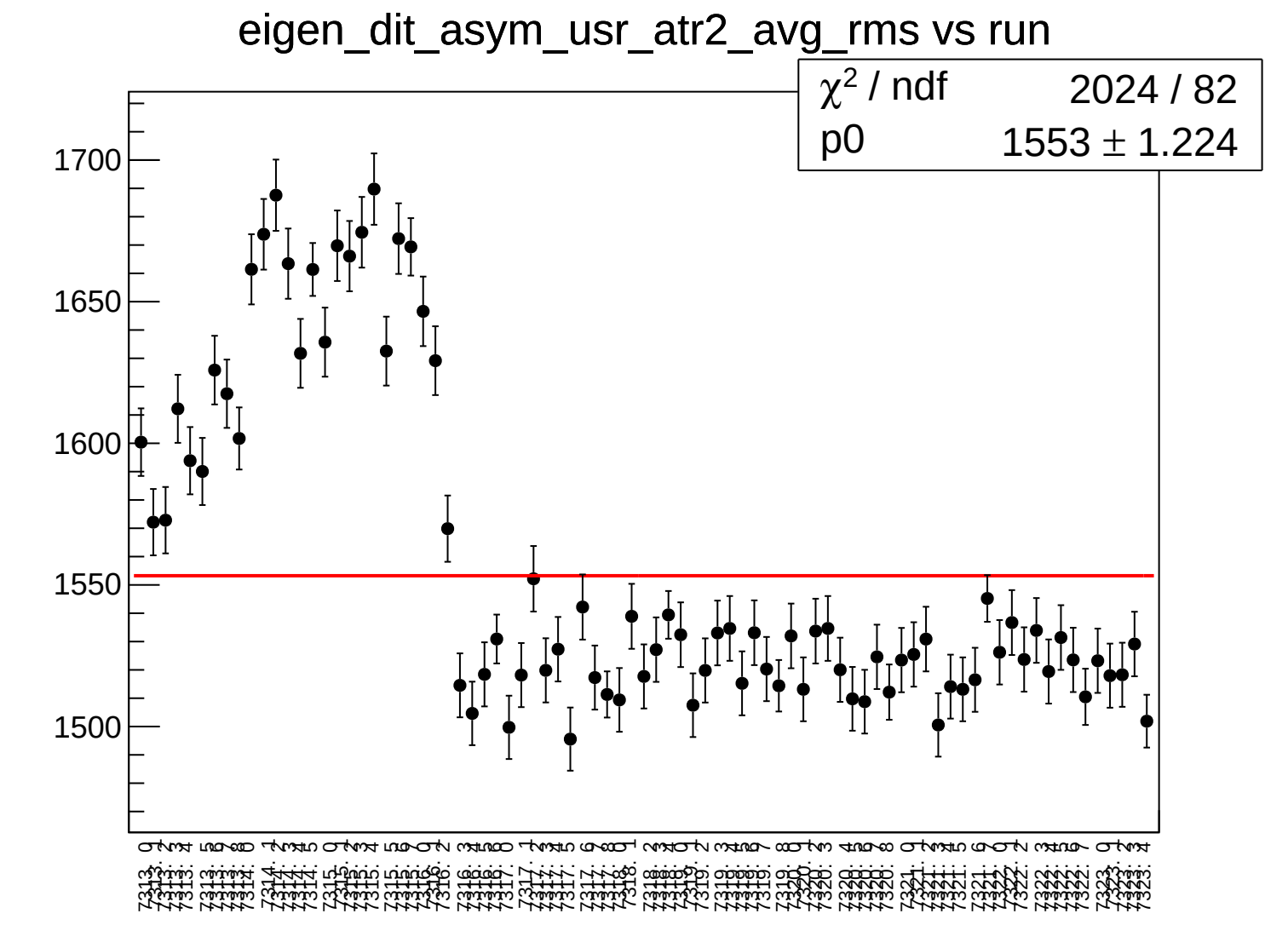

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.42 / 82
p0 9829 ± 8723
300
200
100
0
−100
−200
pull
Entries 83
Mean 1286
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

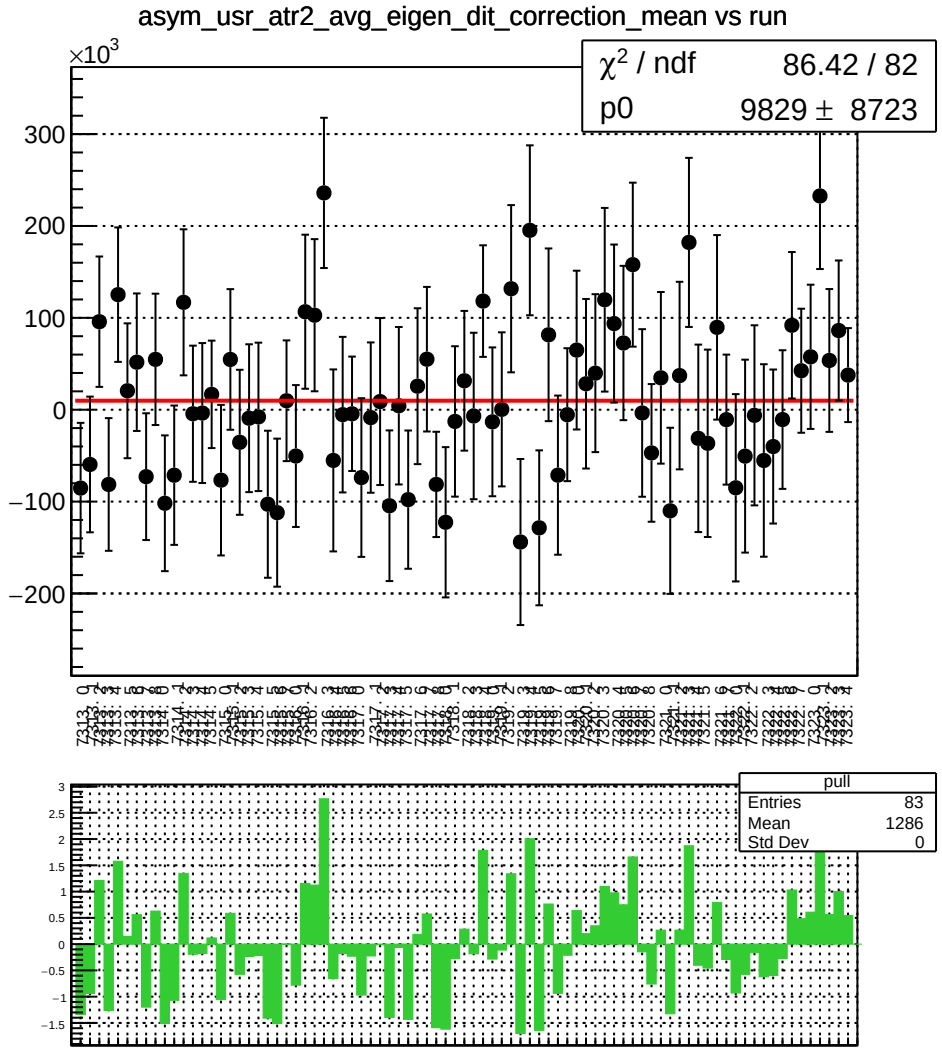

pull1D
Entries 83
Mean 0.004035
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

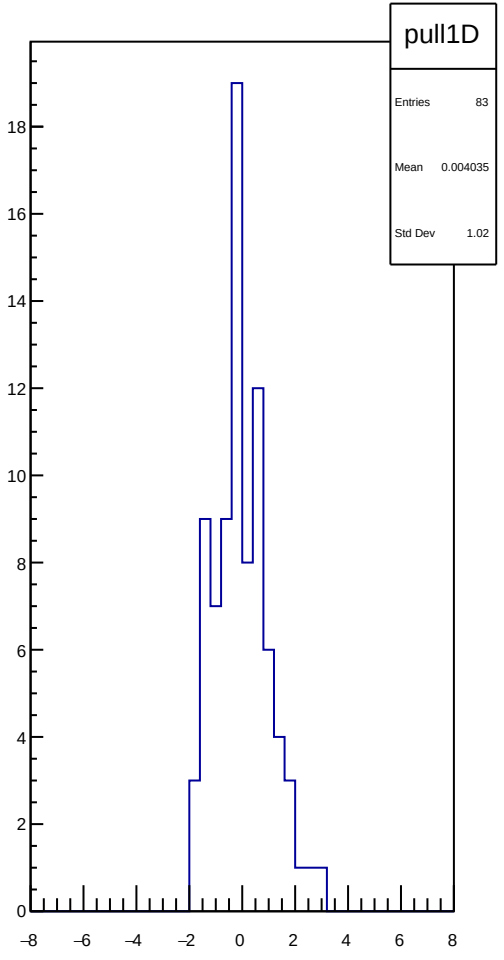

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 7786 ± 6.168
10000
9000
8000
7000
6000

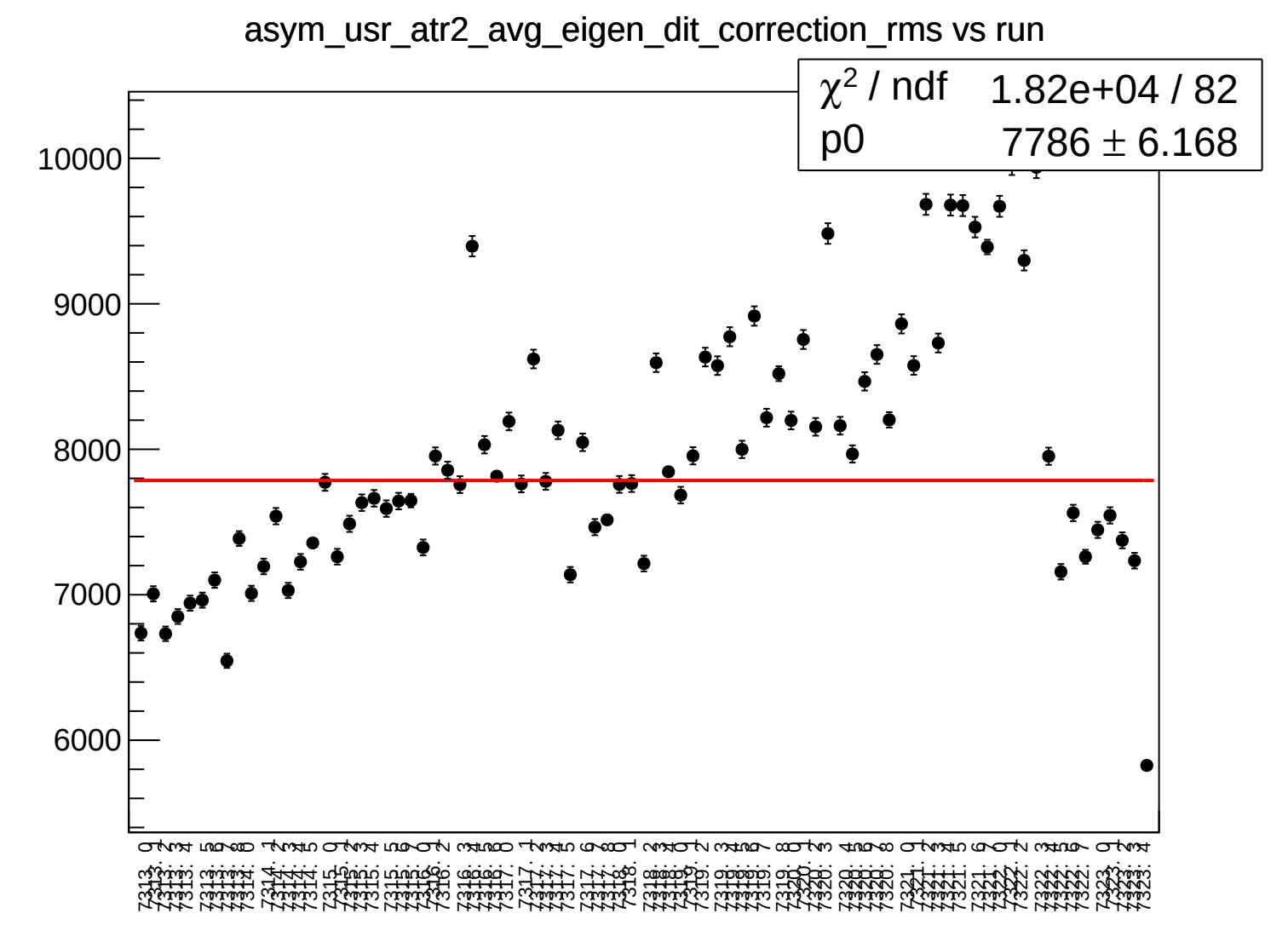

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 103.3 / 82
p0 2497 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −747.9
Std Dev 0
2
1
0
−1
−2

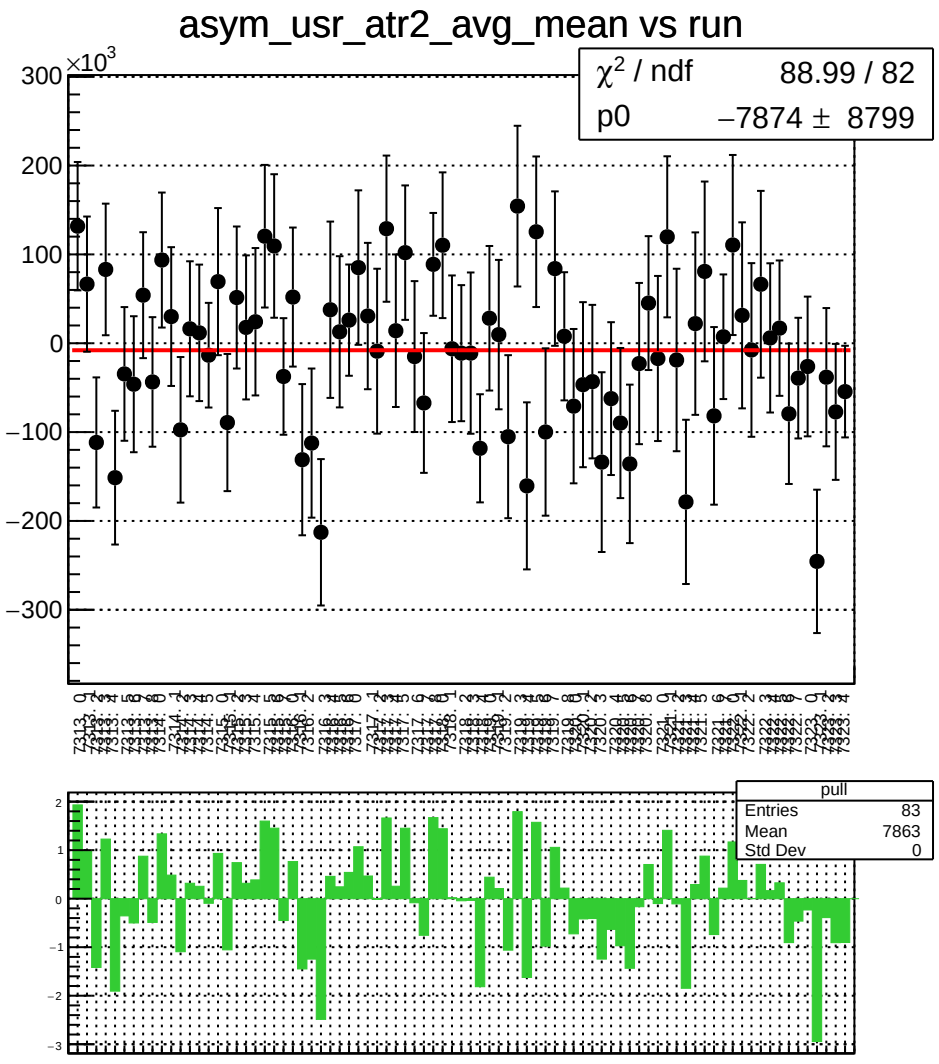

pull1D
Entries 83
Mean −0.002175
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

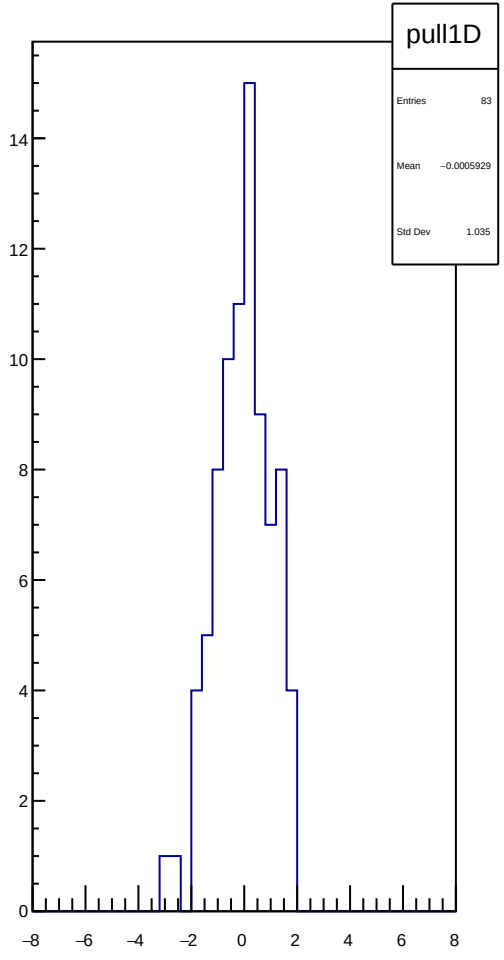

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2024 / 82
p0 1553 ± 1.224
1700
1650
1600
1550
1500

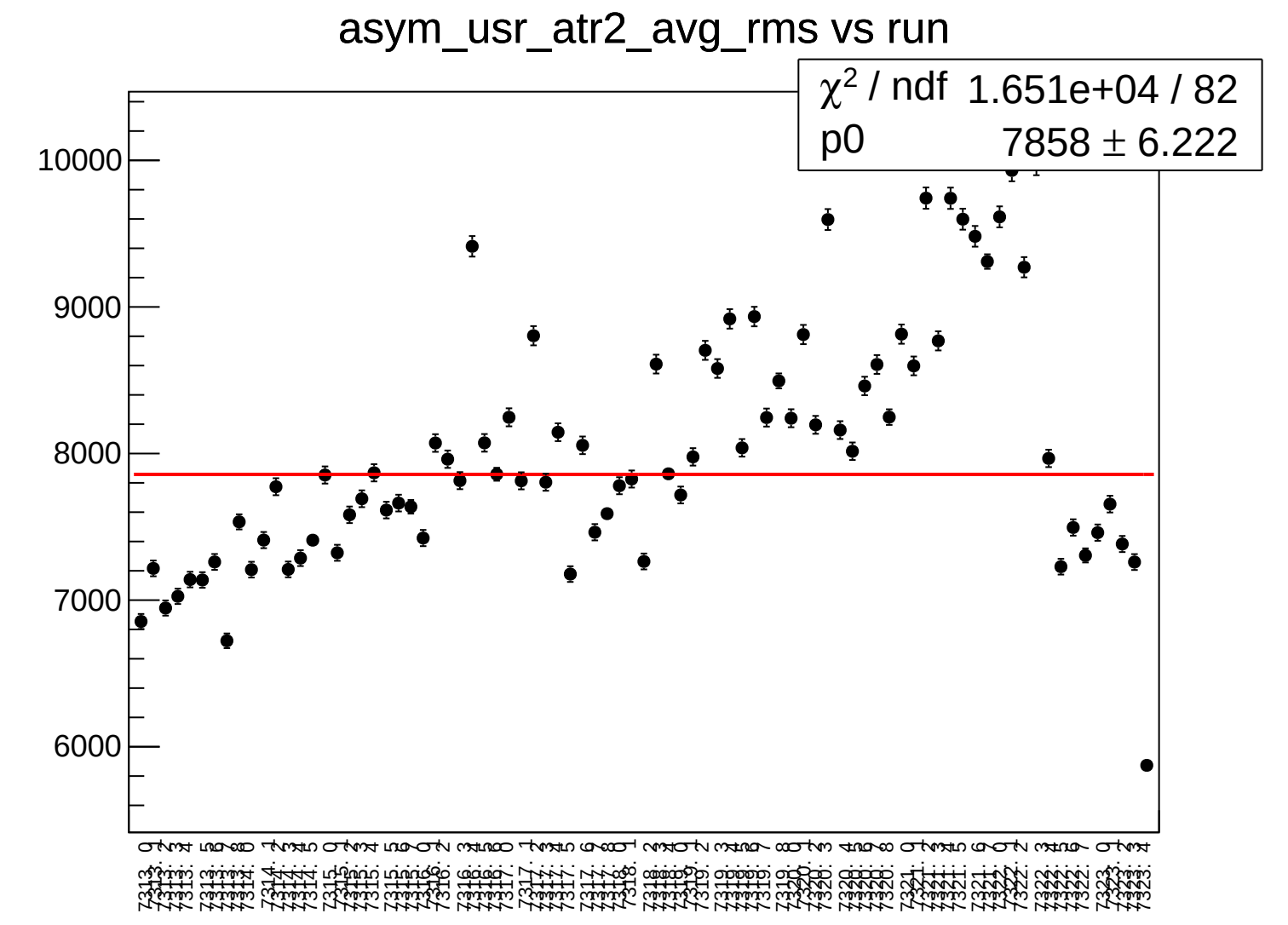

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.42 / 82
p0 9829 ± 8723
pull
Entries 83
Mean 1286
Std Dev 0

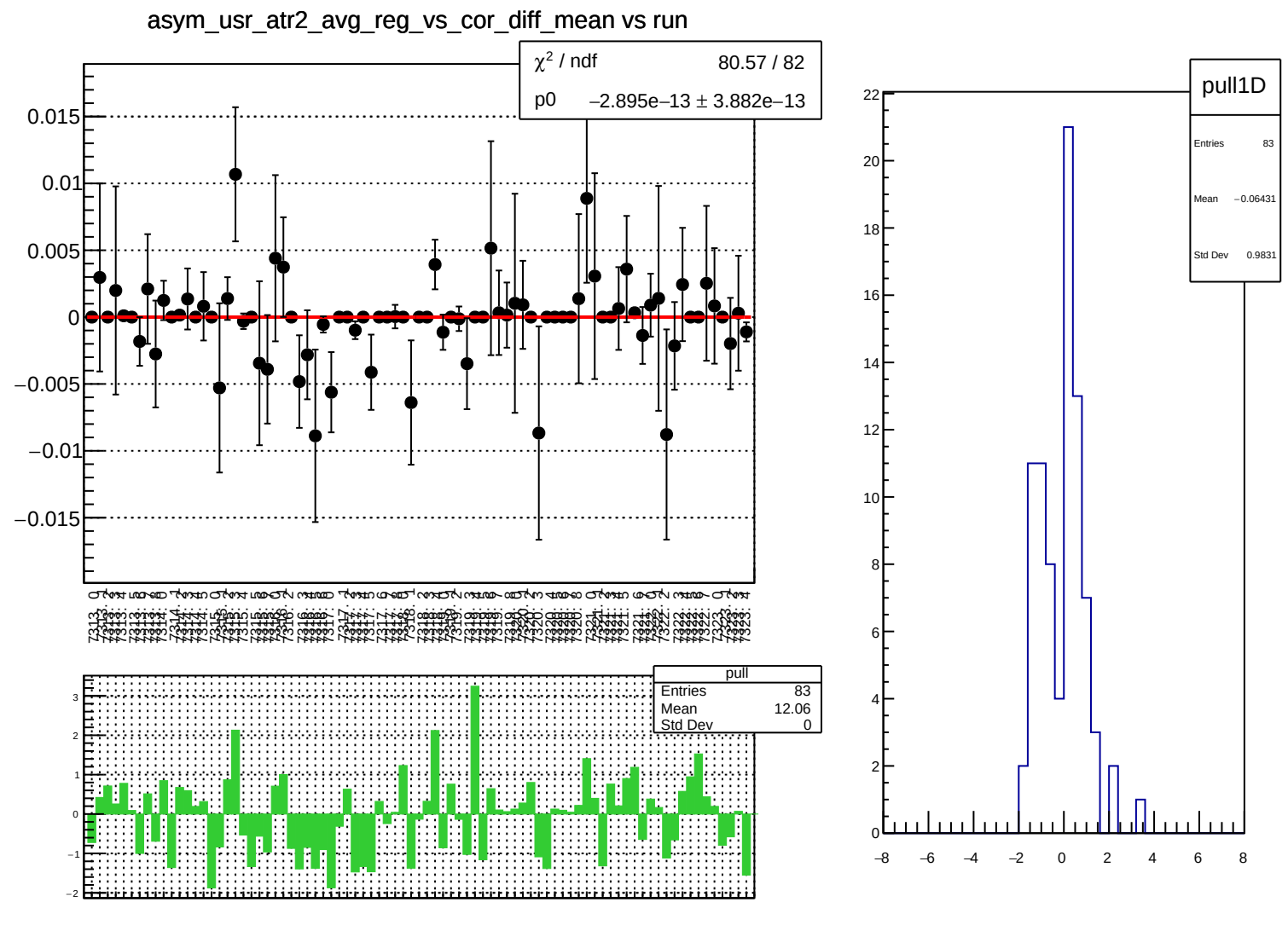

pull1D
Entries 83
Mean 0.004035
Std Dev 1.02

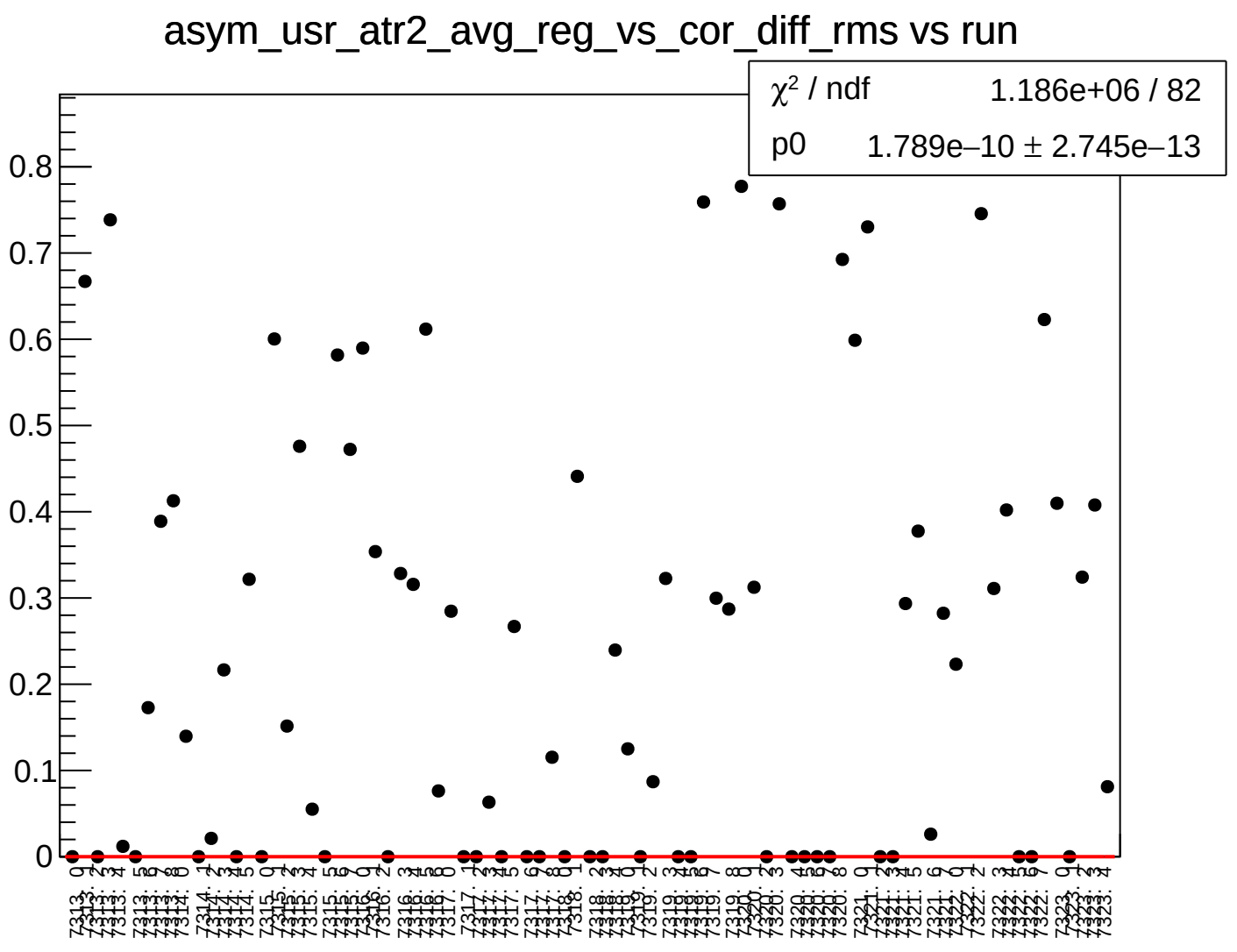

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 7786 ± 6.168
10000
9000
8000
7000
6000

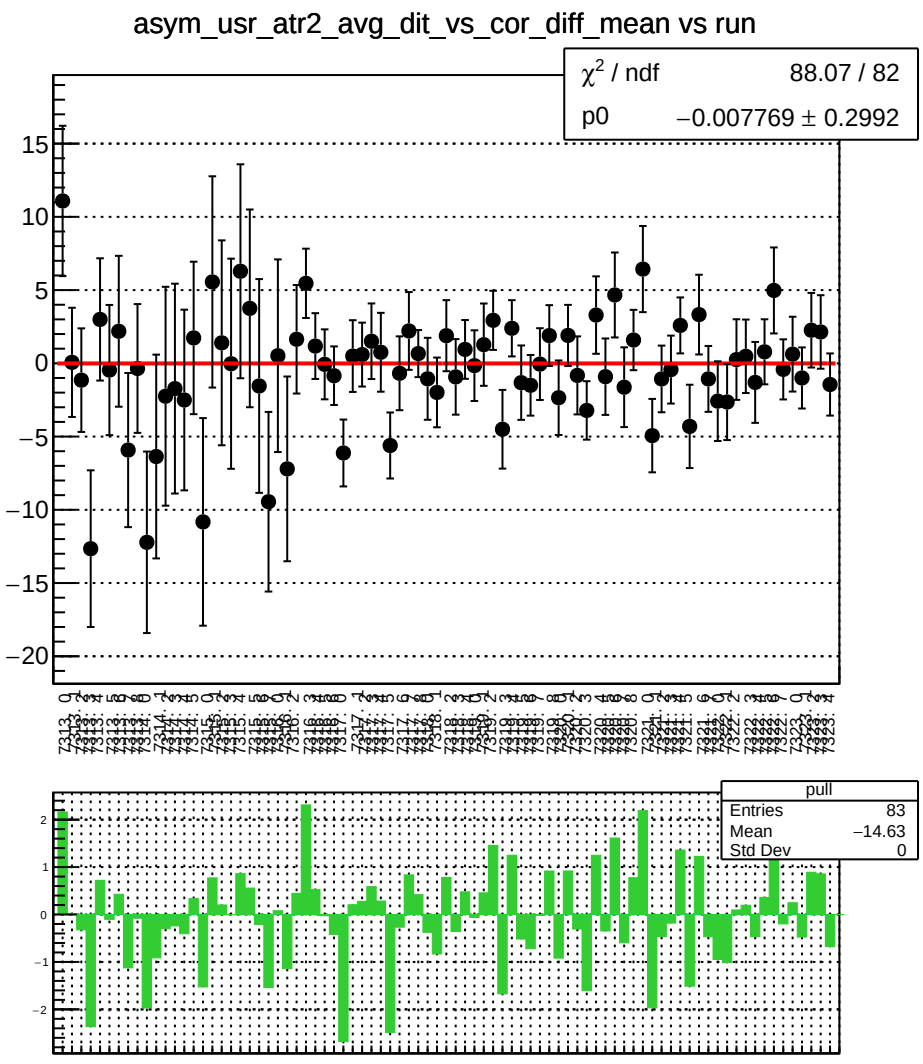

asym_usr_atr2_avg_mean vs run
χ² / ndf 88.99 / 82
p0 −7874 ± 8799
×10³
300
200
100
0
−100
−200
−300
pull
Entries 83
Mean 7863
Std Dev 0
2
1
0
−1
−2
−3

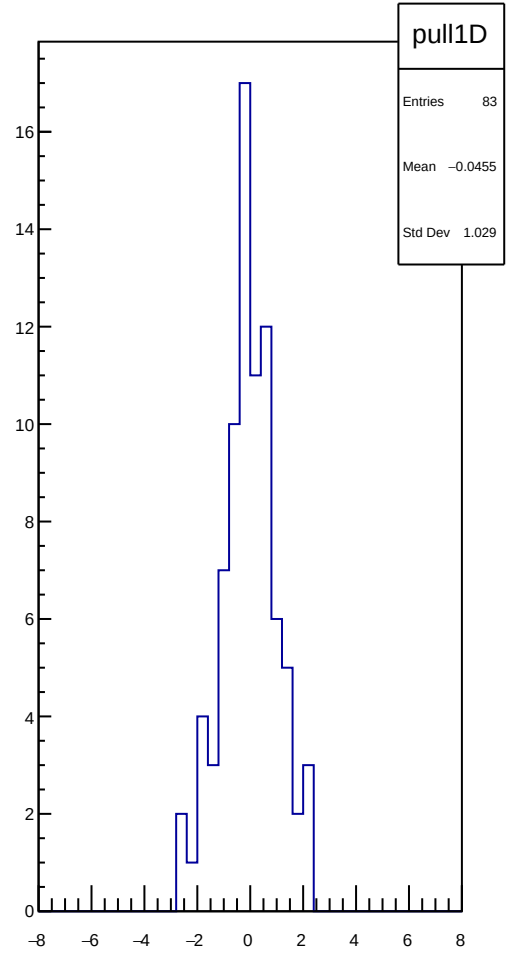

pull1D
Entries 83
Mean −0.0005929
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

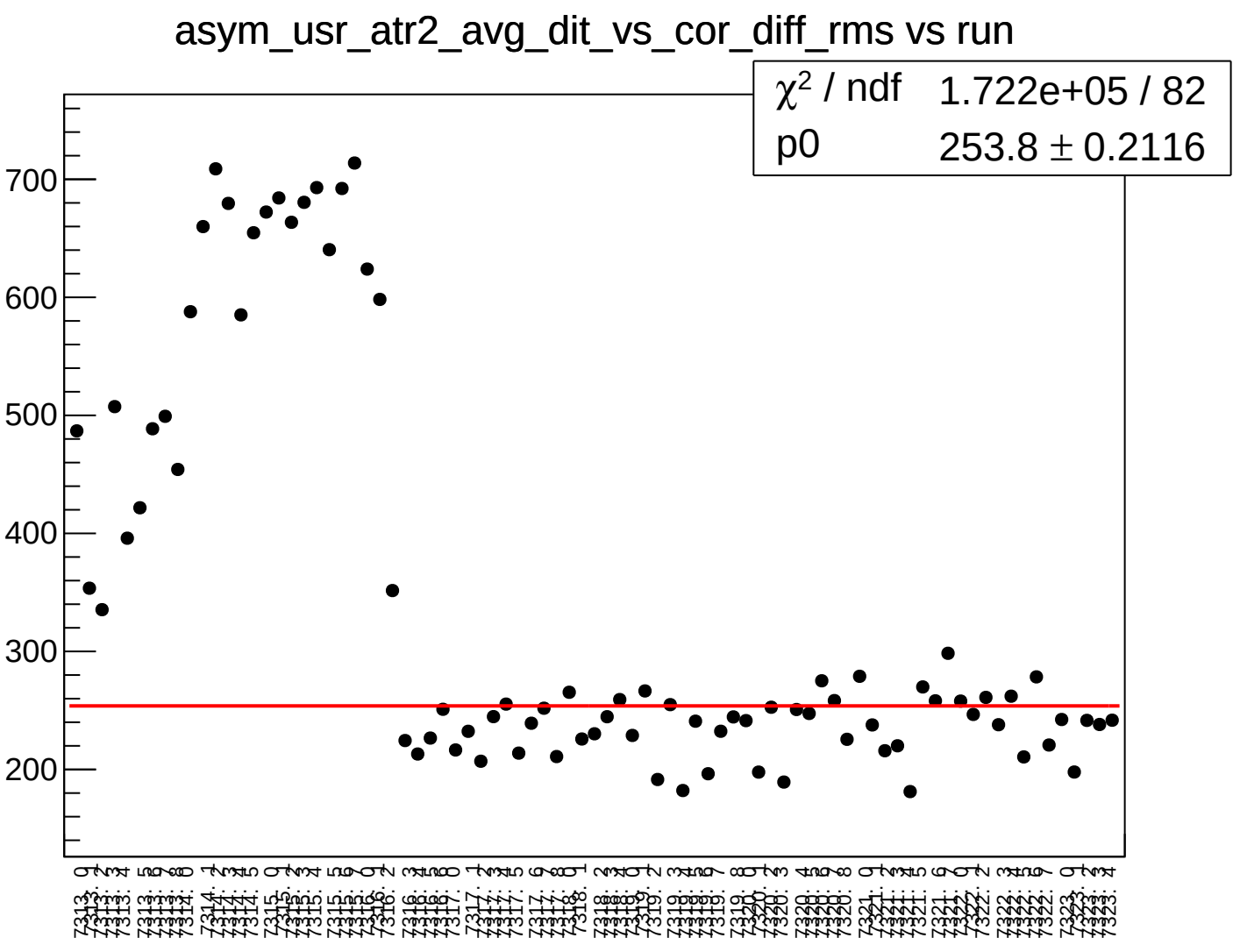

asym_usr_atr2_avg_rms vs run
χ² / ndf 1.651e+04 / 82
p0 7858 ± 6.222
10000
9000
8000
7000
6000

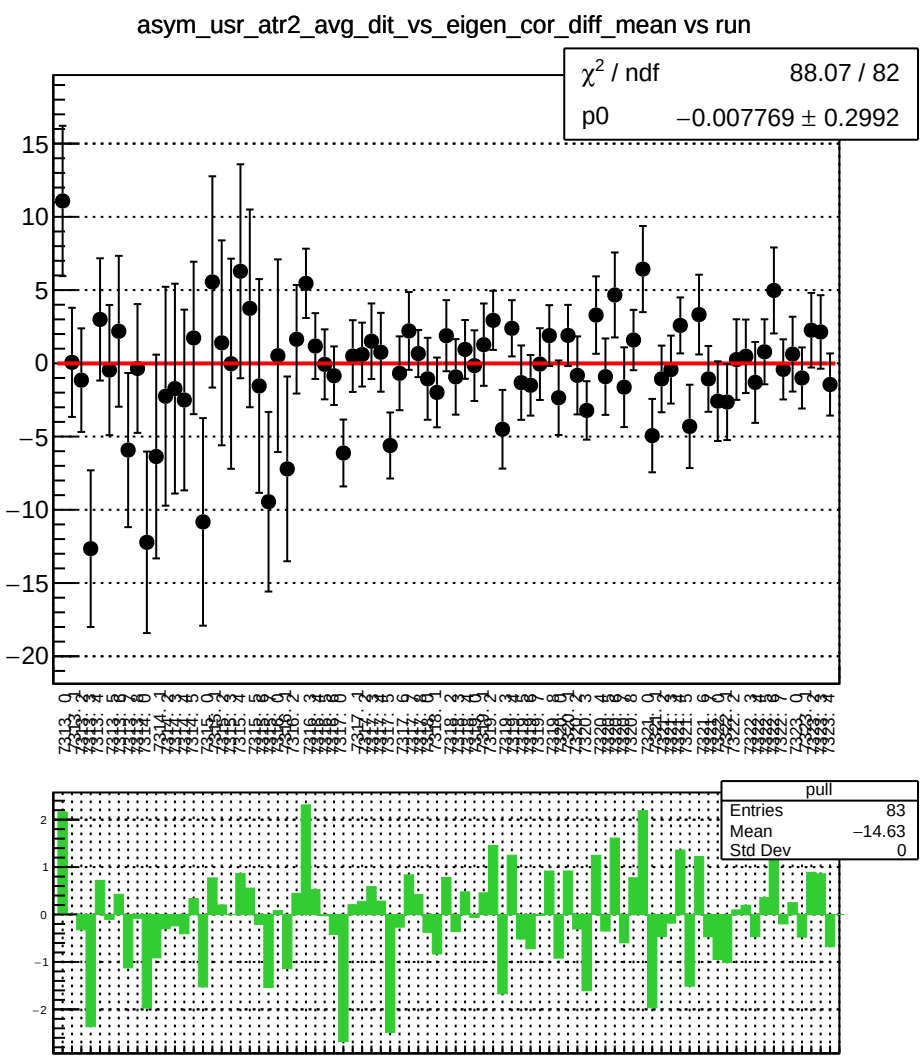

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.57 / 82
p0 −2.895e−13 ± 3.882e−13
pull
Entries 83
Mean 12.06
Std Dev 0
pull1D
Entries 83
Mean −0.06431
Std Dev 0.9831

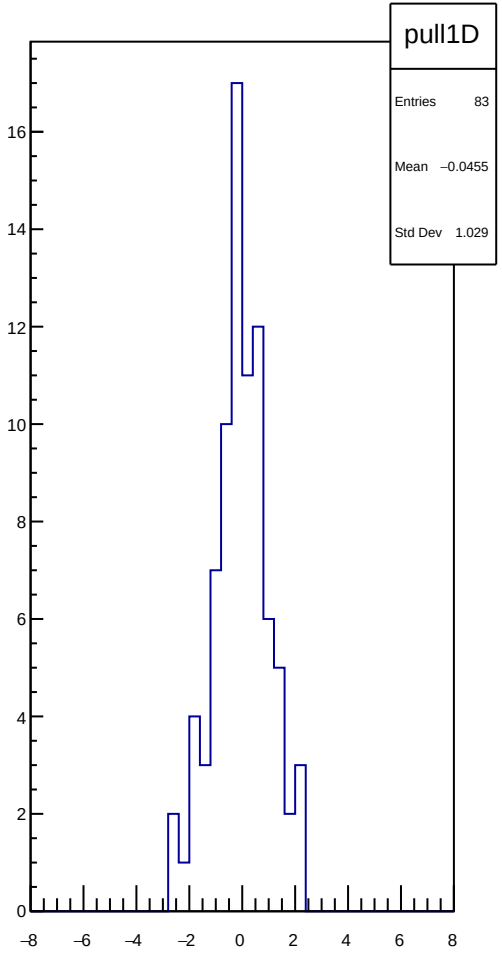

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.186e+06 / 82
p0 1.789e−10 ± 2.745e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

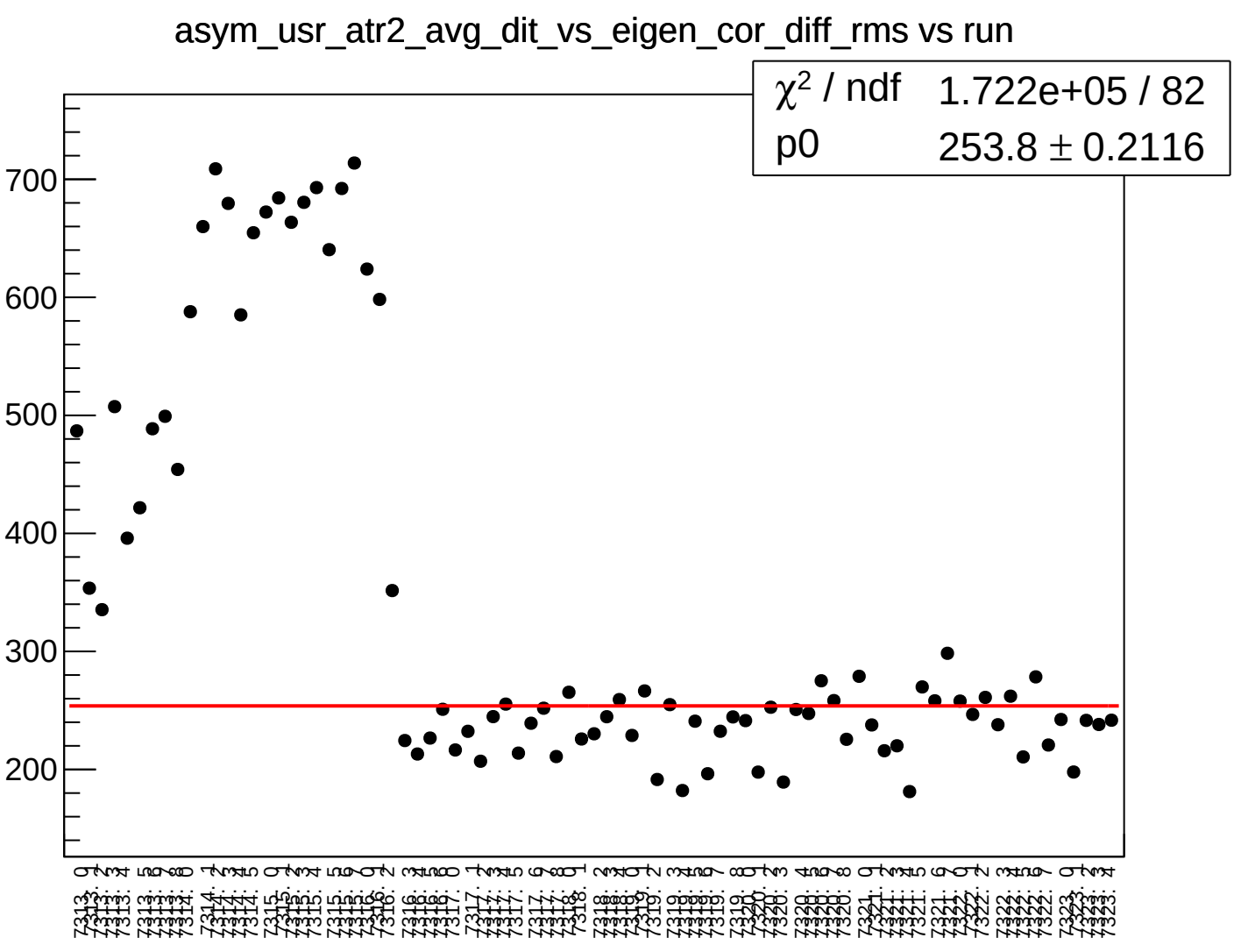

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.07 / 82
p0 −0.007769 ± 0.2992
pull
Entries 83
Mean −14.63
Std Dev 0

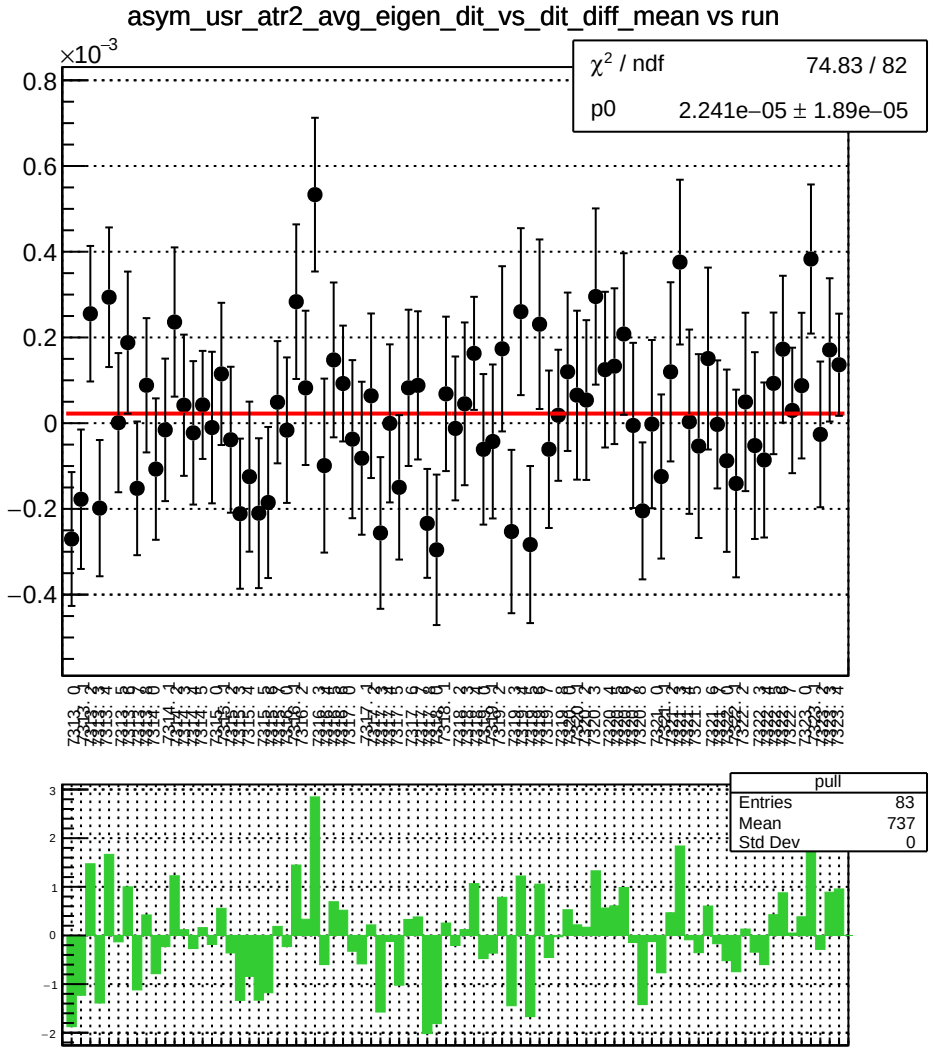

pull1D
Entries 83
Mean −0.0455
Std Dev 1.029

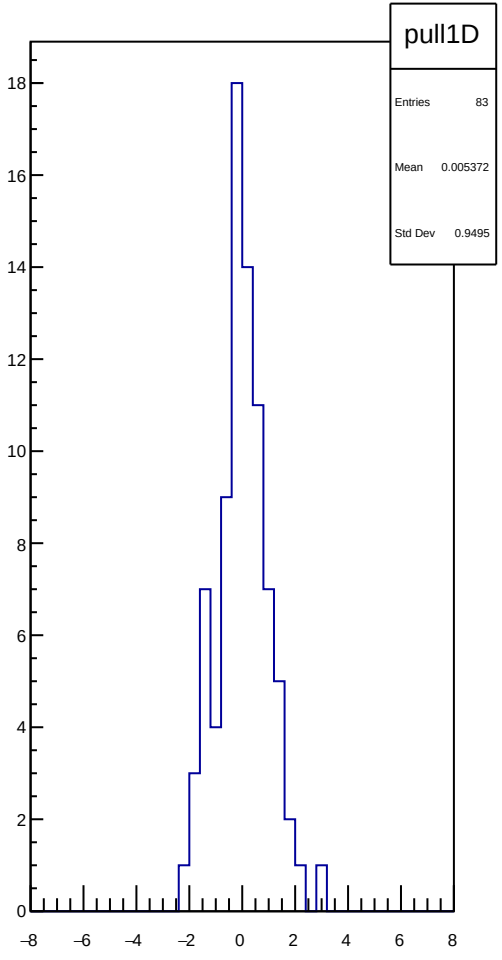

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.722e+05 / 82
p0 253.8 ± 0.2116
700
600
500
400
300
200

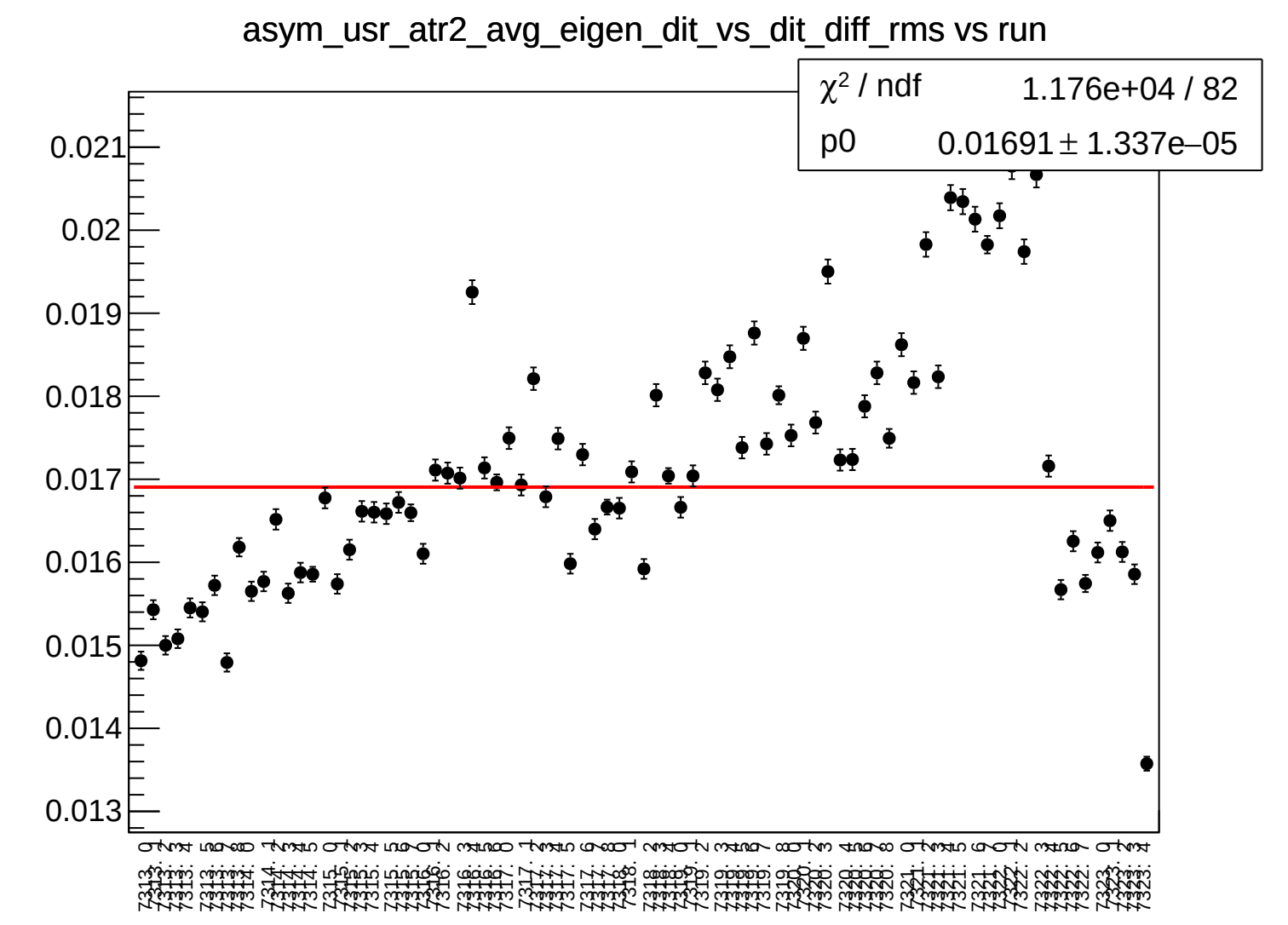

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.07 / 82
p0 −0.007769 ± 0.2992
pull
Entries 83
Mean −14.63
Std Dev 0

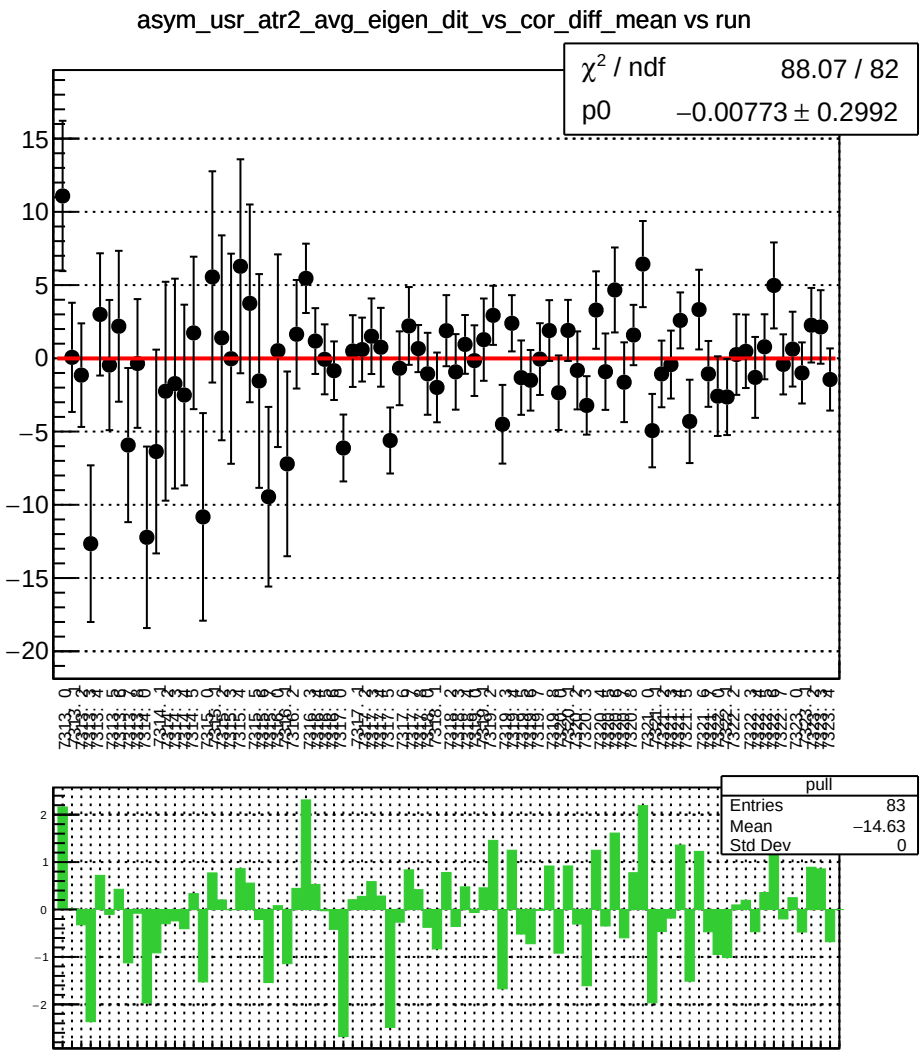

pull1D
Entries 83
Mean −0.0455
Std Dev 1.029

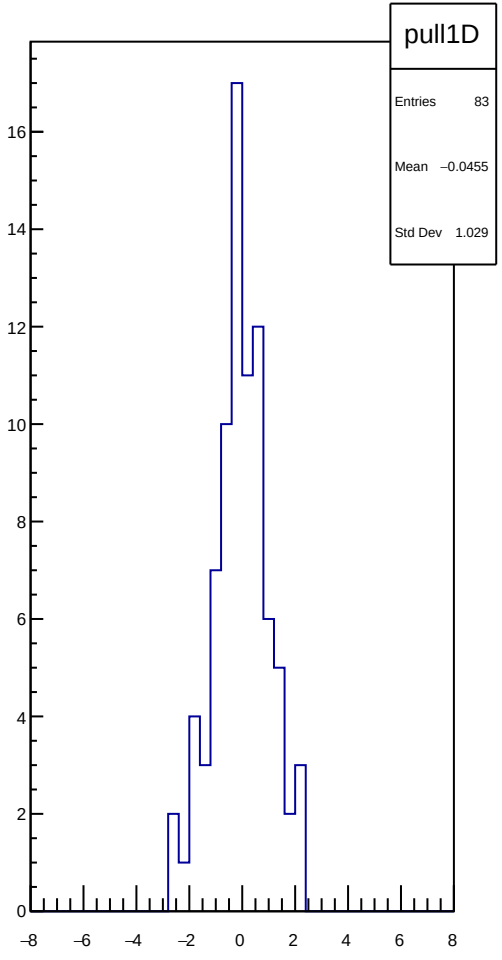

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.722e+05 / 82
p0 253.8 ± 0.2116
700
600
500
400
300
200

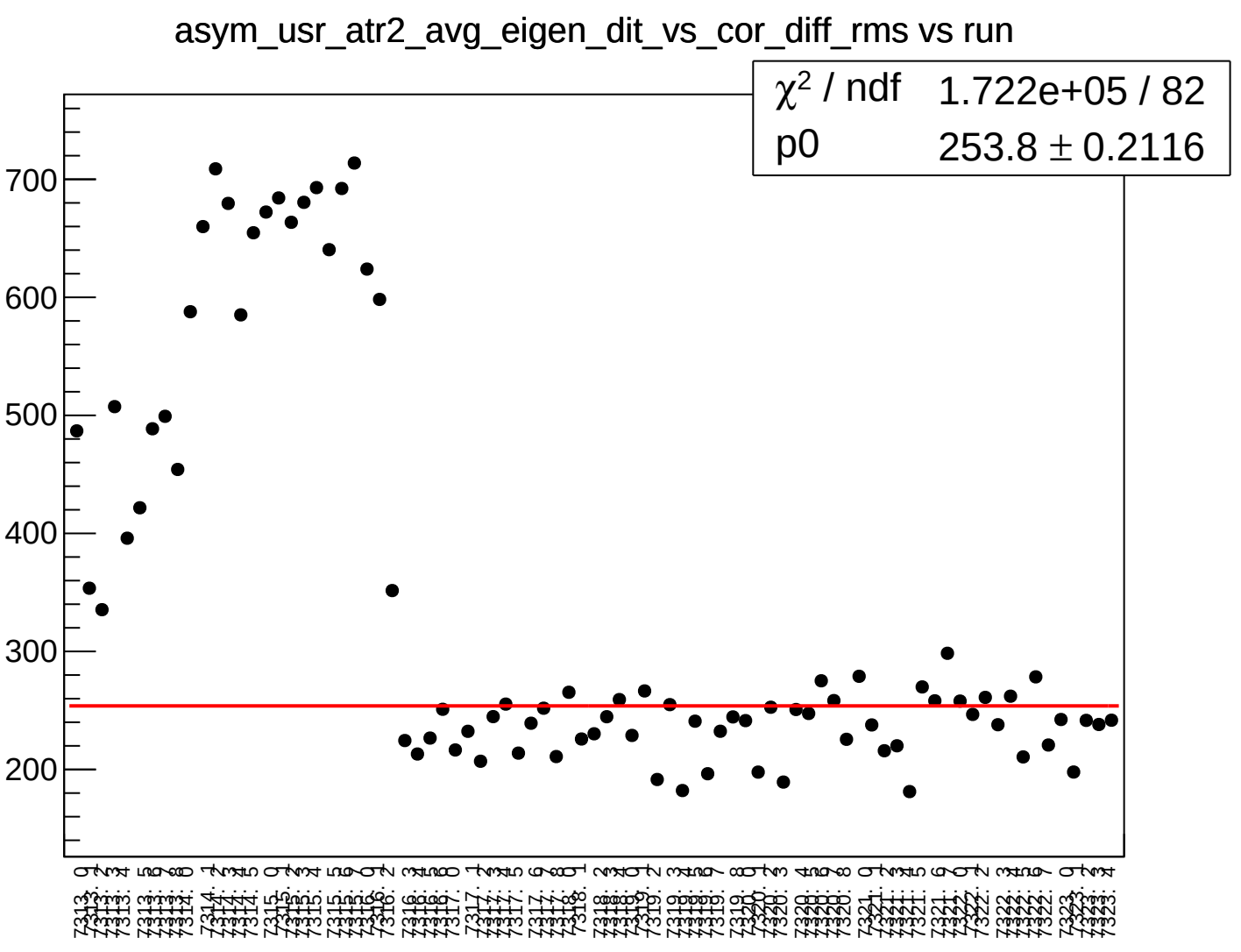

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.83 / 82
p0 2.241e−05 ± 1.89e−05
pull
Entries 83
Mean 737
Std Dev 0

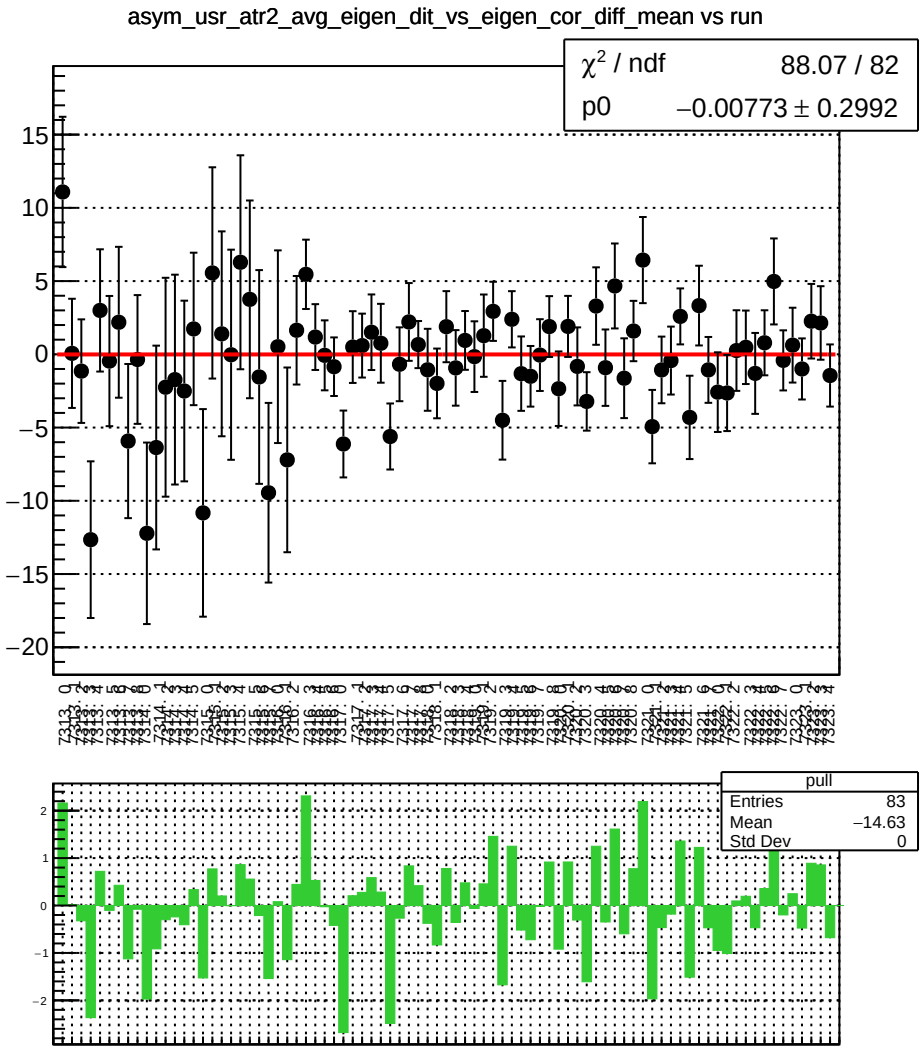

pull1D
Entries 83
Mean 0.005372
Std Dev 0.9495

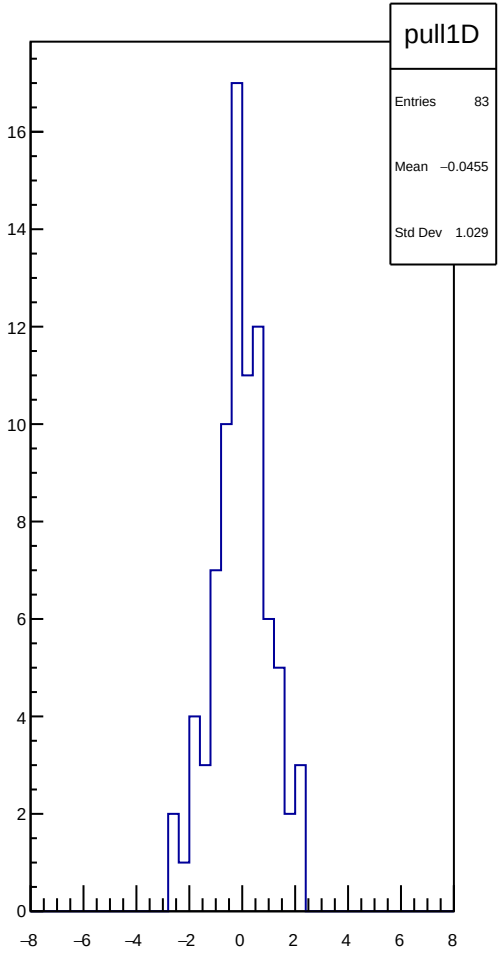

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.176e+04 / 82
p0 0.01691 ± 1.337e–05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

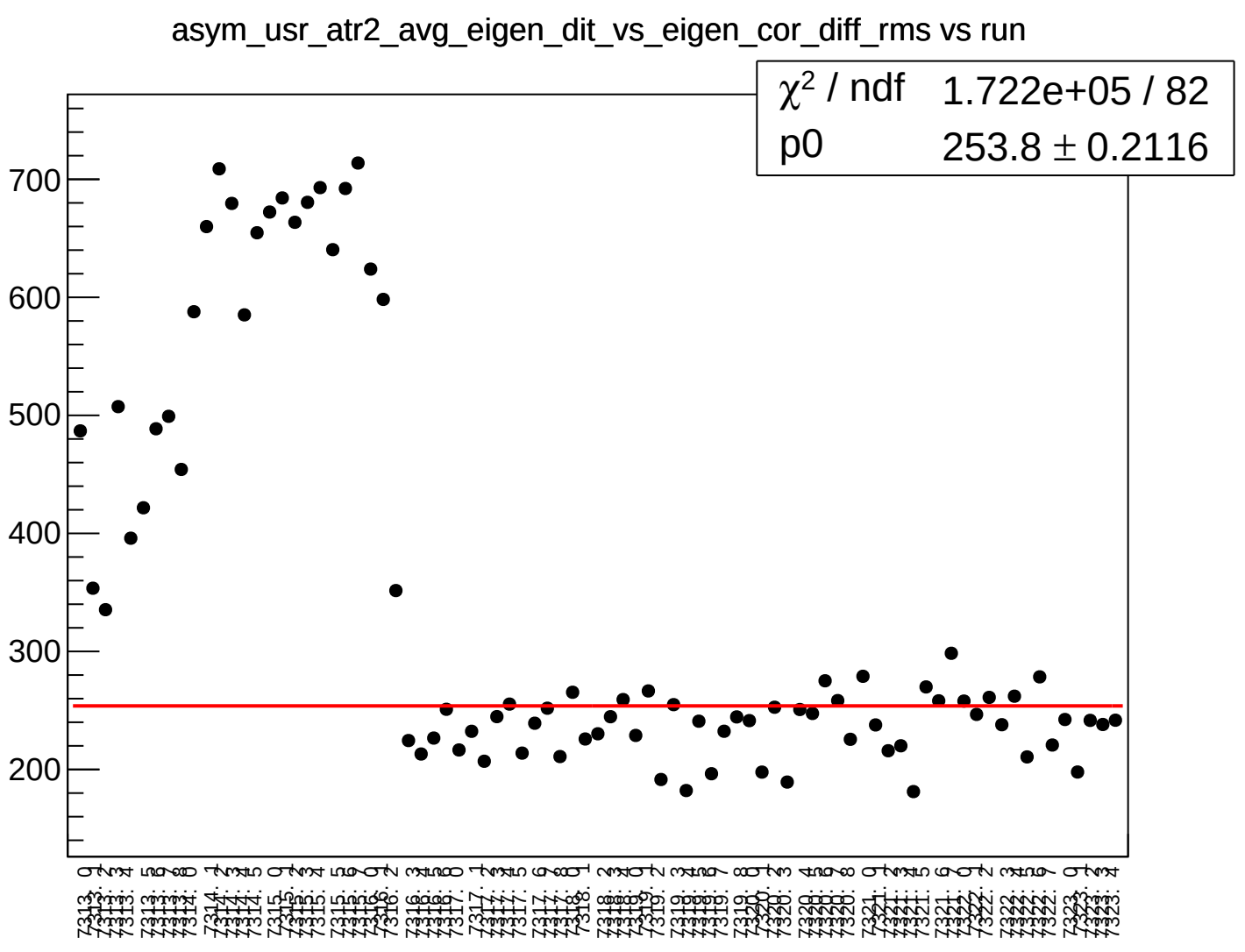

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.07 / 82
p0 −0.00773 ± 0.2992
pull
Entries 83
Mean −14.63
Std Dev 0

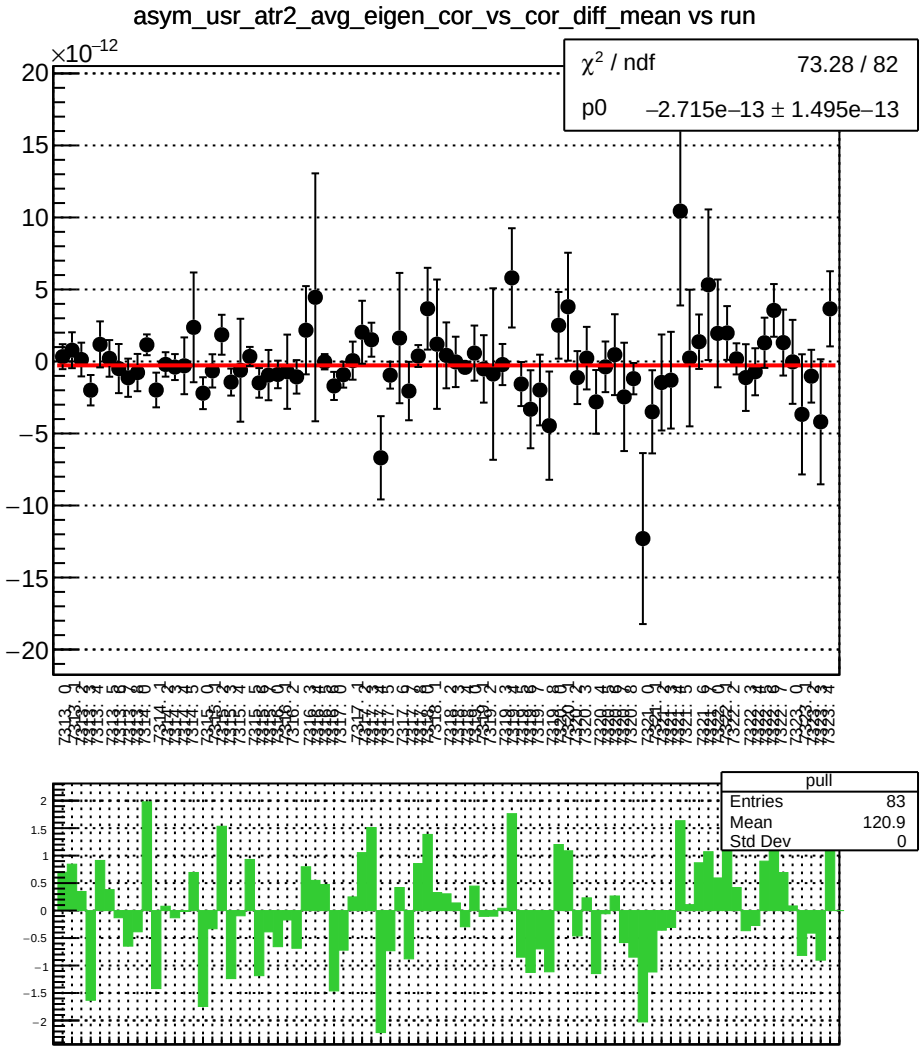

pull1D
Entries 83
Mean −0.0455
Std Dev 1.029

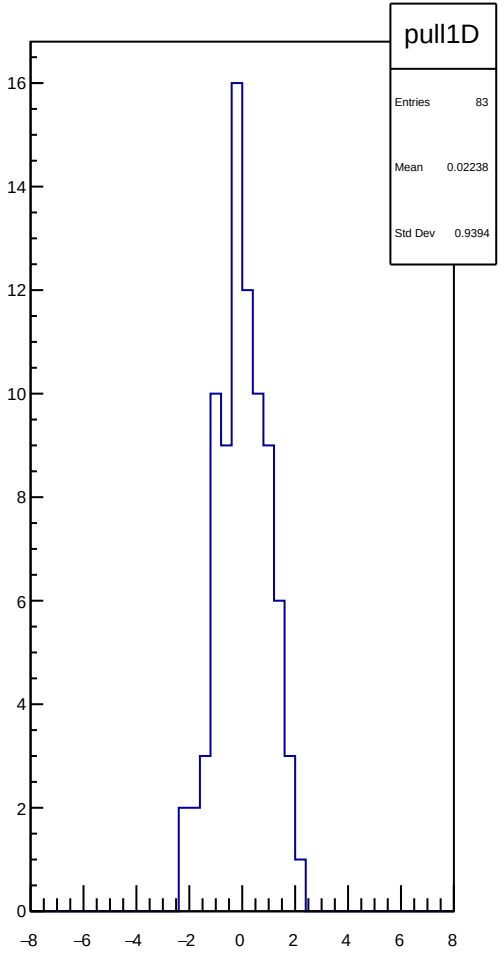

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.722e+05 / 82
p0 253.8 ± 0.2116
700
600
500
400
300
200

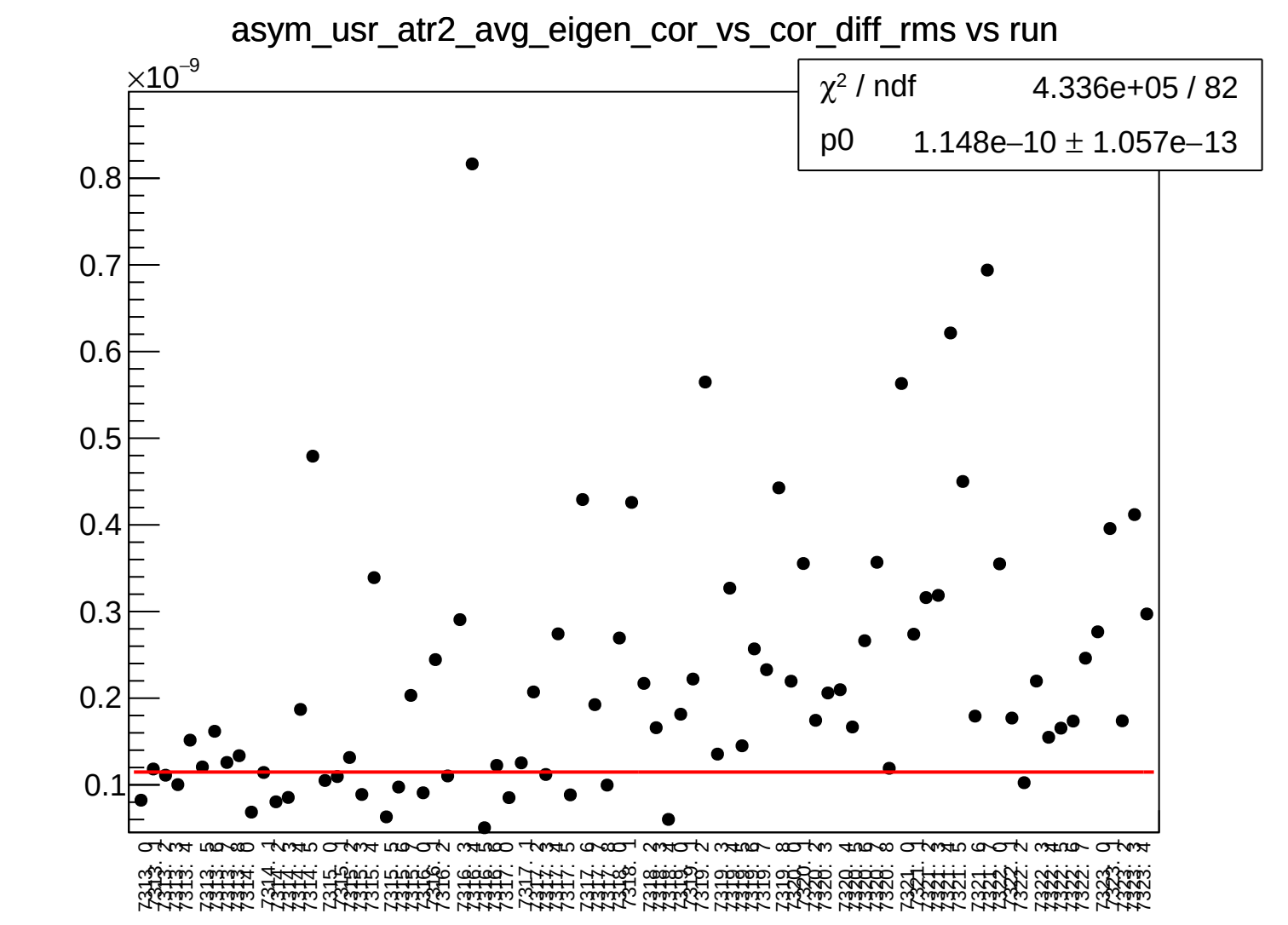

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.07 / 82
p0 −0.00773 ± 0.2992
pull
Entries 83
Mean −14.63
Std Dev 0

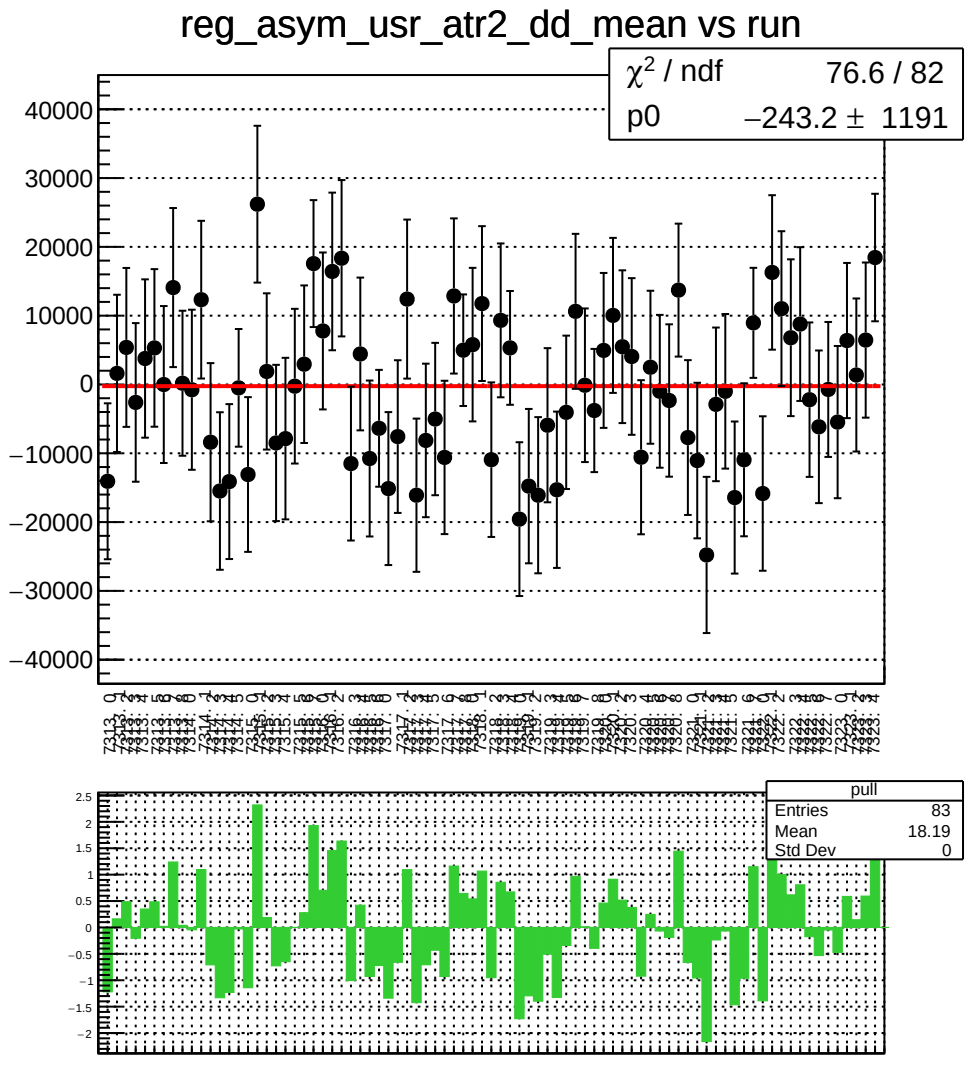

pull1D
Entries 83
Mean −0.0455
Std Dev 1.029

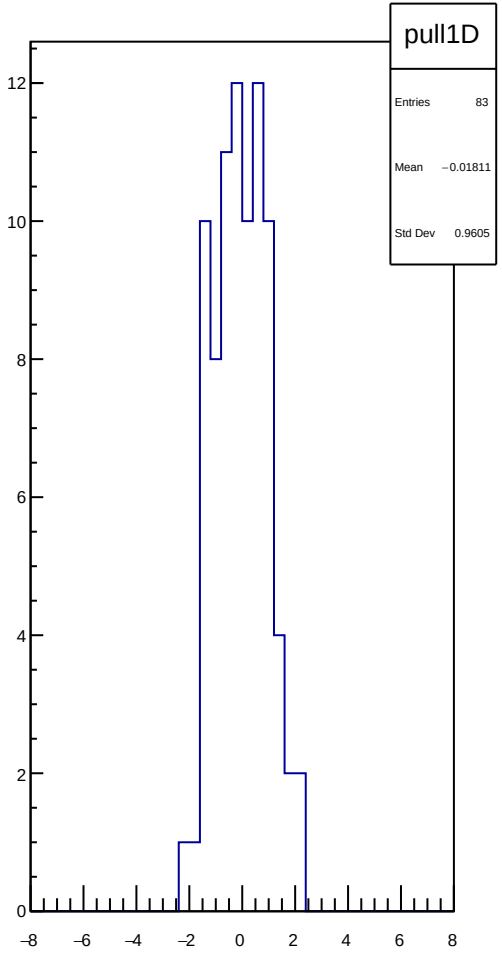

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.722e+05 / 82
p0 253.8 ± 0.2116
700
600
500
400
300
200

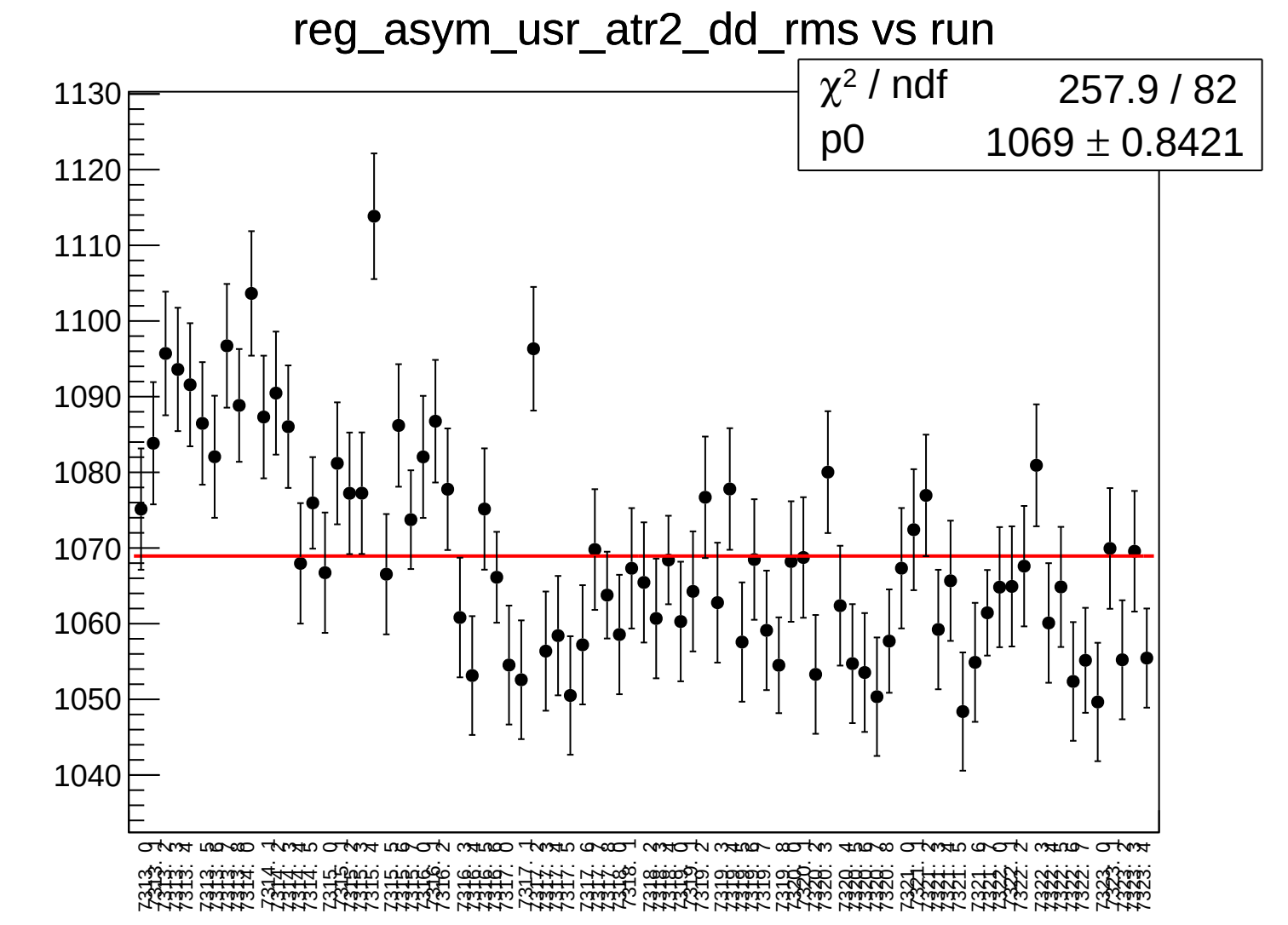

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.28 / 82
p0 −2.715e−13 ± 1.495e−13
pull
Entries 83
Mean 120.9
Std Dev 0

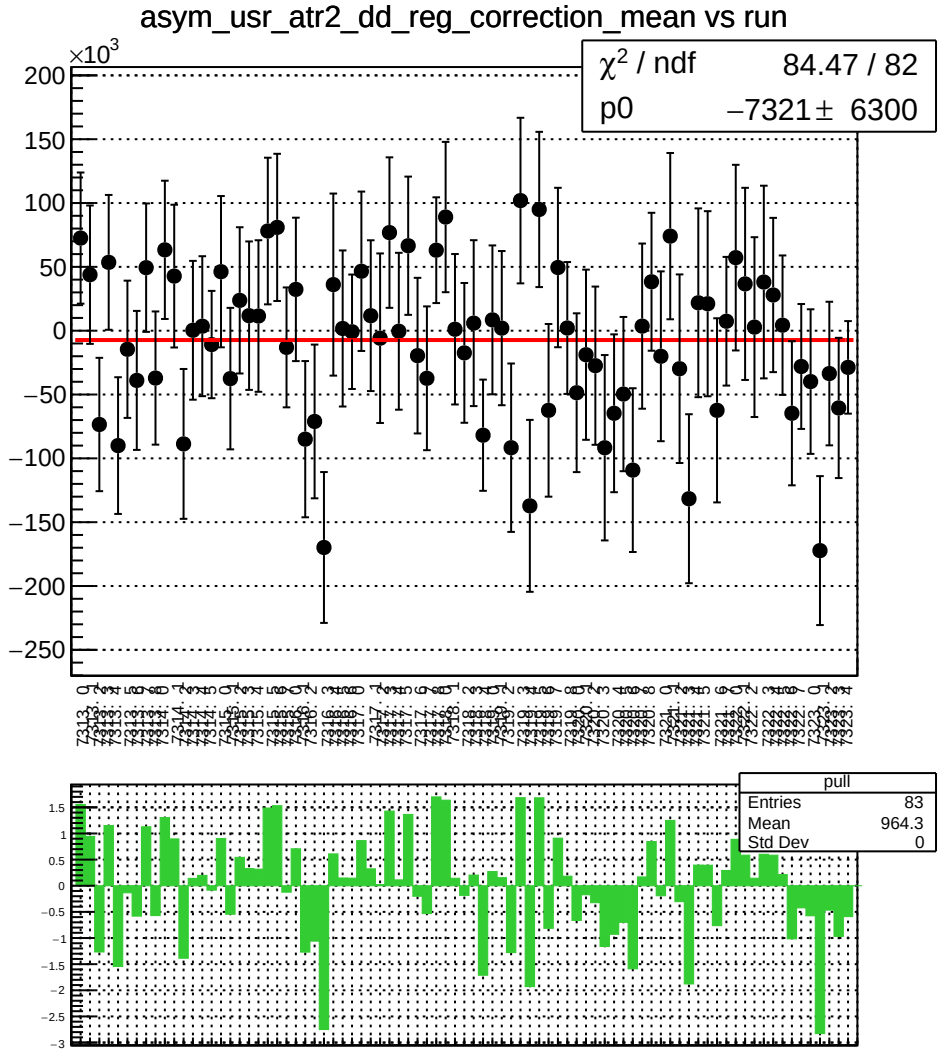

pull1D
Entries 83
Mean 0.02238
Std Dev 0.9394

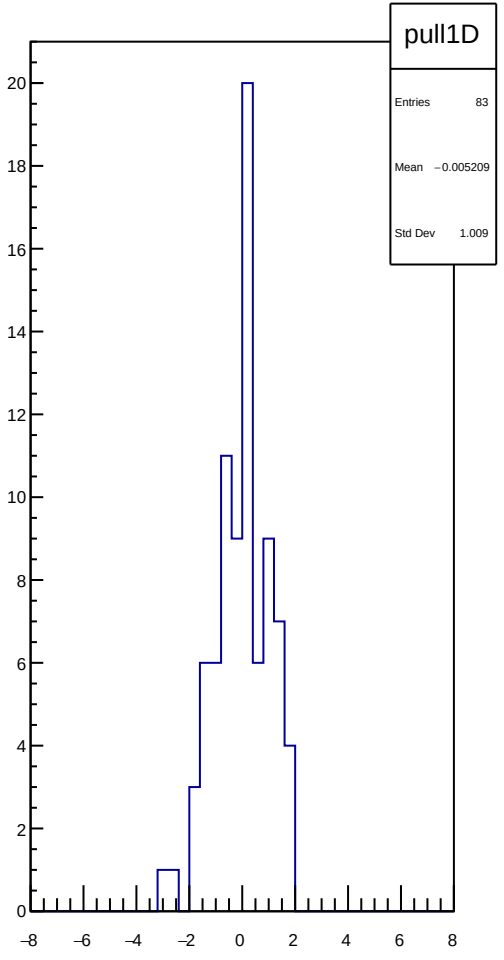

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.336e+05 / 82
p0 1.148e−10 ± 1.057e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

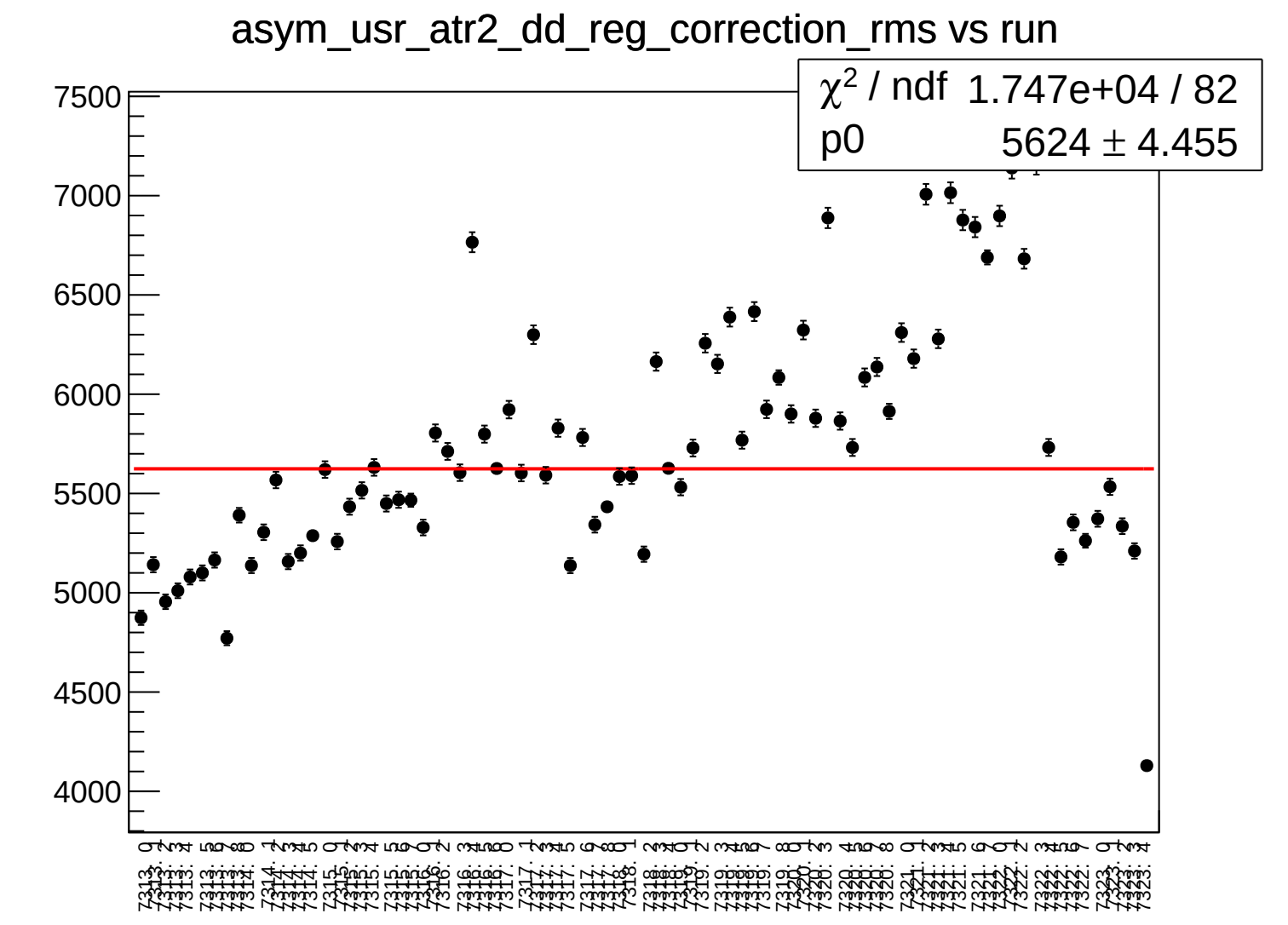

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 76.6 / 82
p0 −243.2 ± 1191
pull
Entries 83
Mean 18.19
Std Dev 0

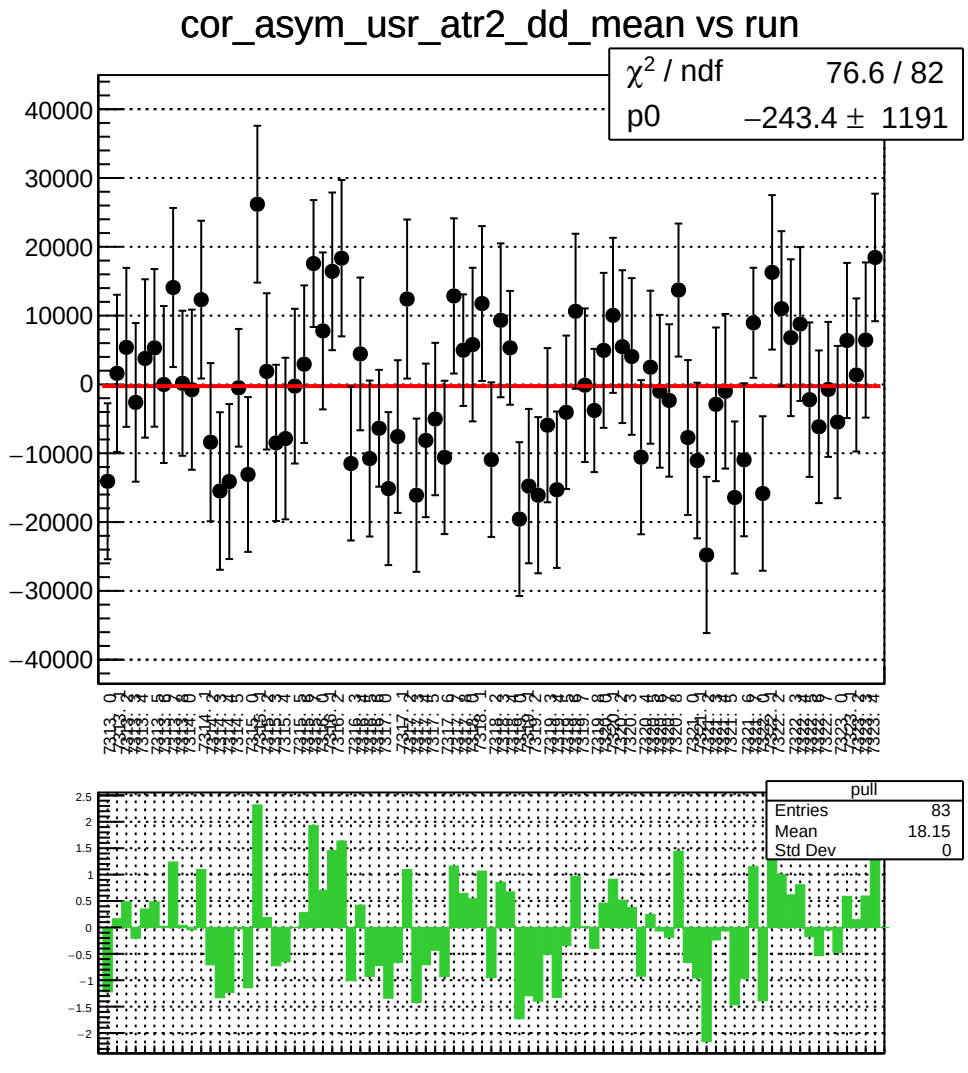

pull1D
Entries 83
Mean −0.01811
Std Dev 0.9605

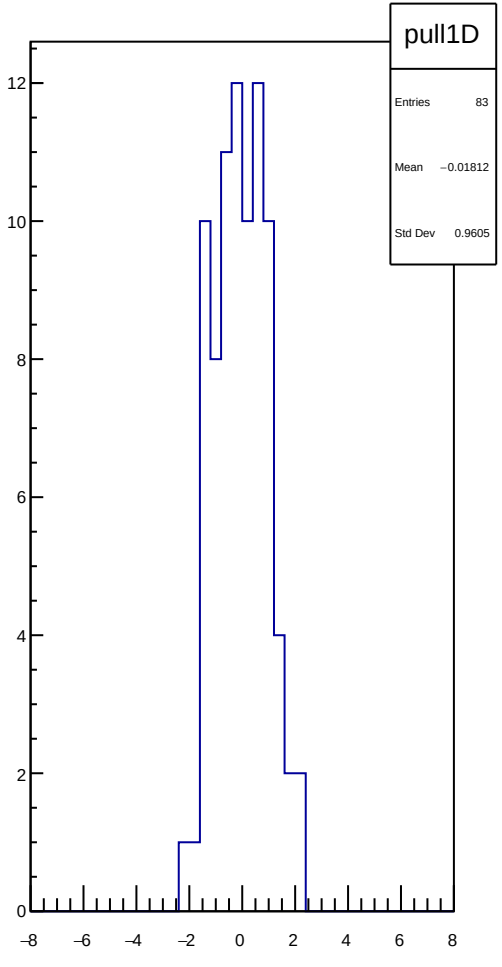

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 257.9 / 82
p0 1069 ± 0.8421
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

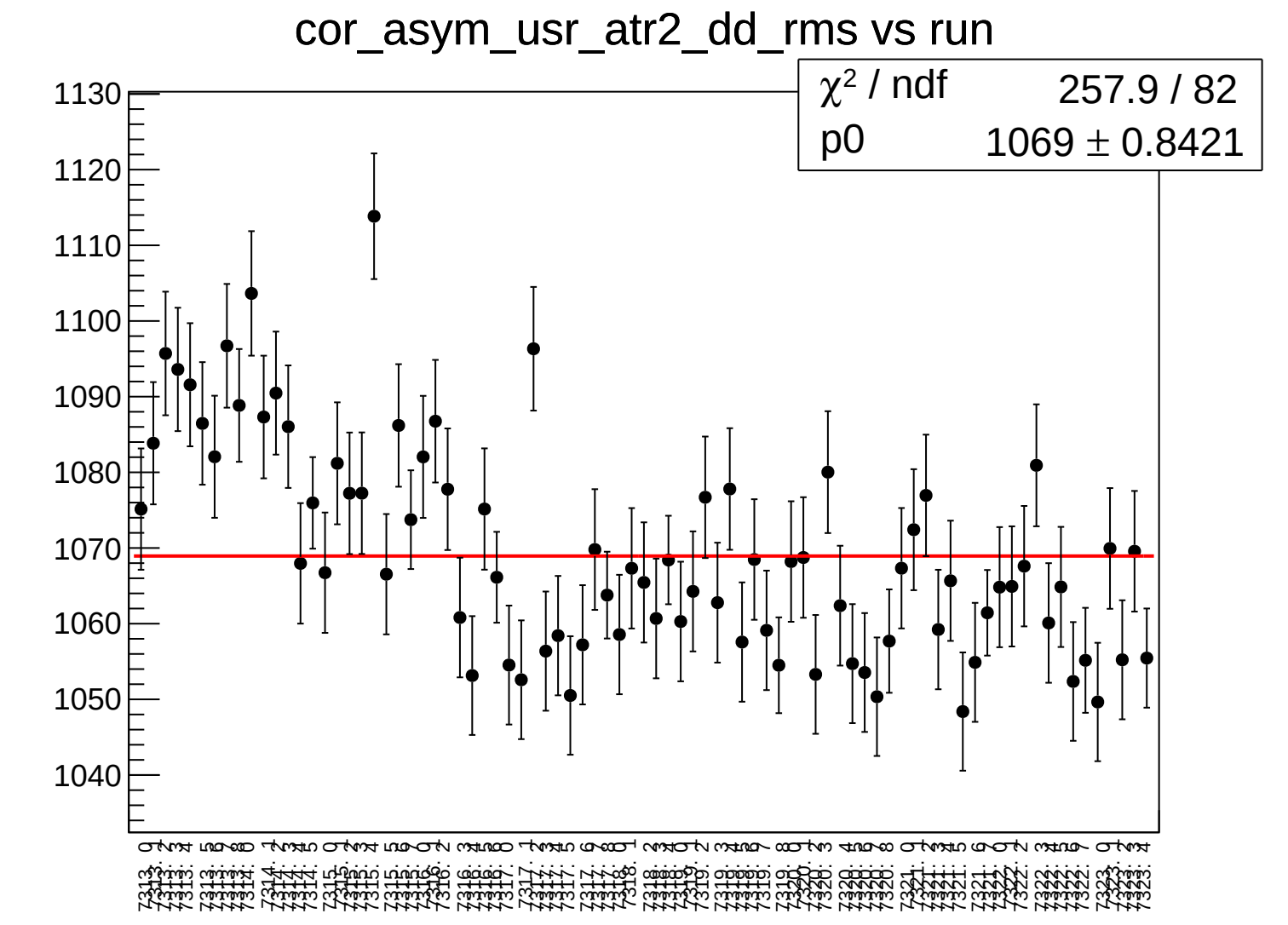

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 84.47 / 82
p0 −7321 ± 6300
×10³
pull
Entries 83
Mean 964.3
Std Dev 0

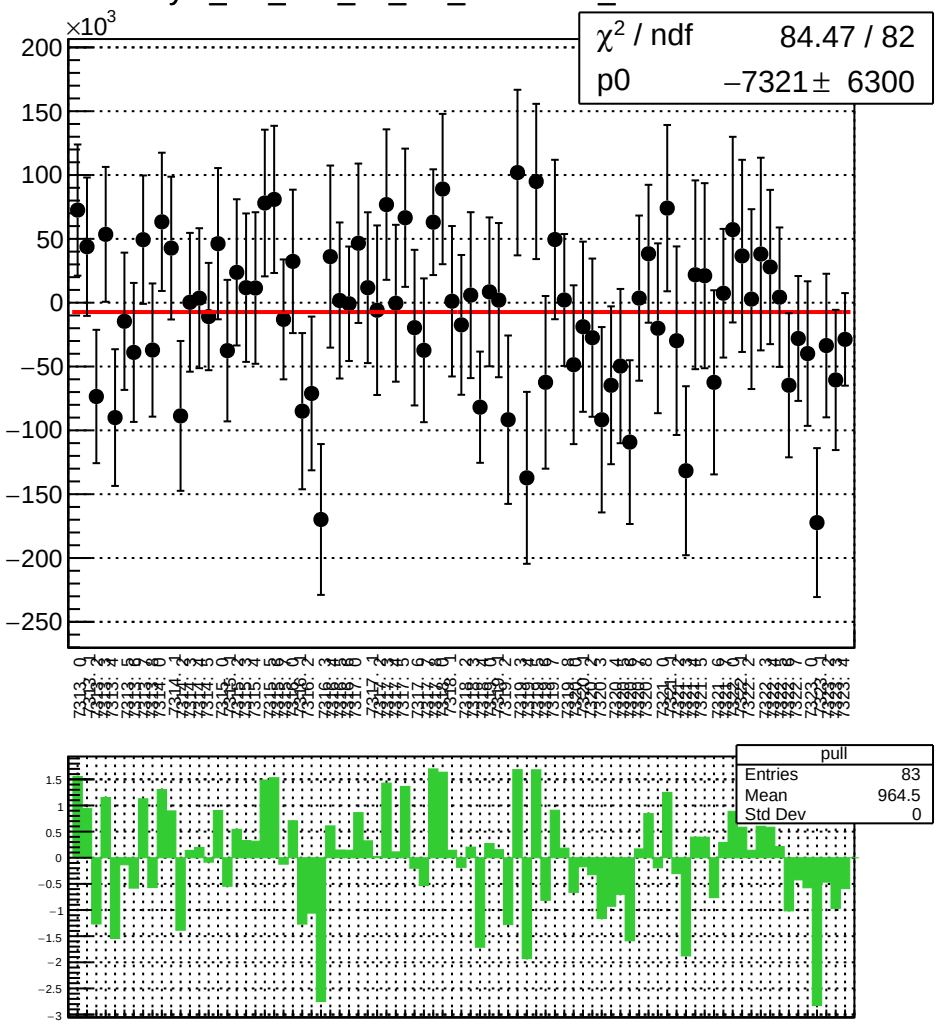

pull1D
Entries 83
Mean −0.005209
Std Dev 1.009

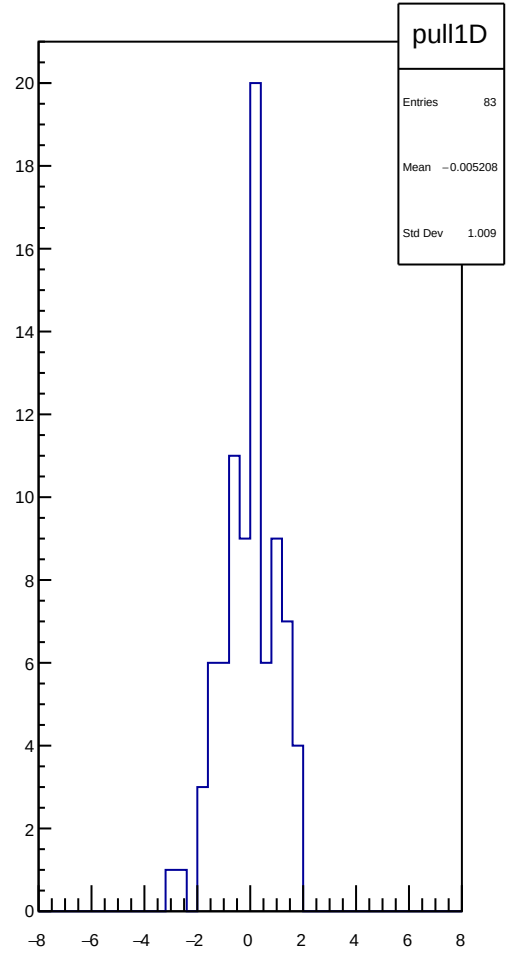

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.747e+04 / 82
p0 5624 ± 4.455
7500
7000
6500
6000
5500
5000
4500
4000

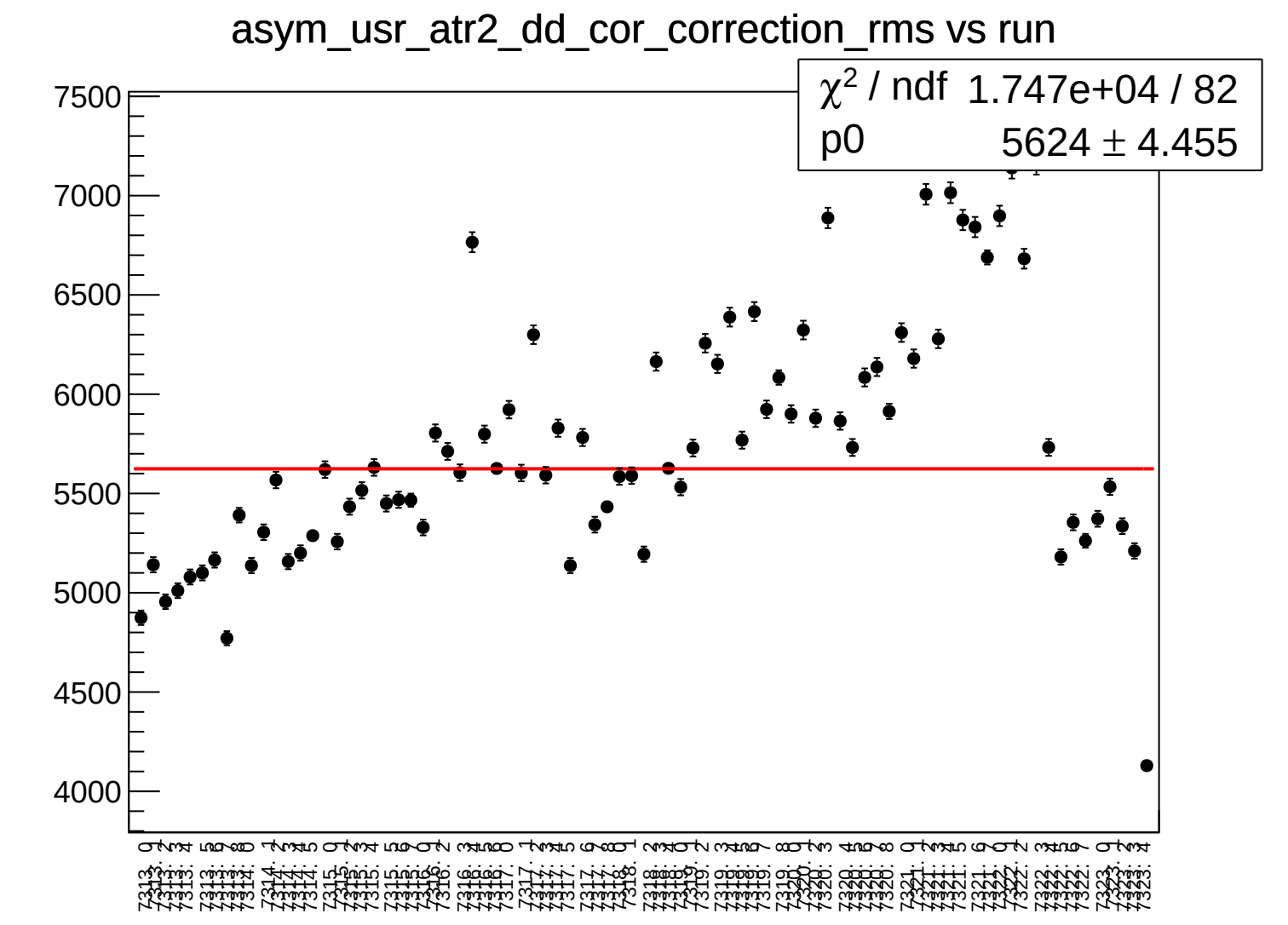

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 76.6 / 82
p0 −243.4 ± 1191
pull
Entries 83
Mean 18.15
Std Dev 0

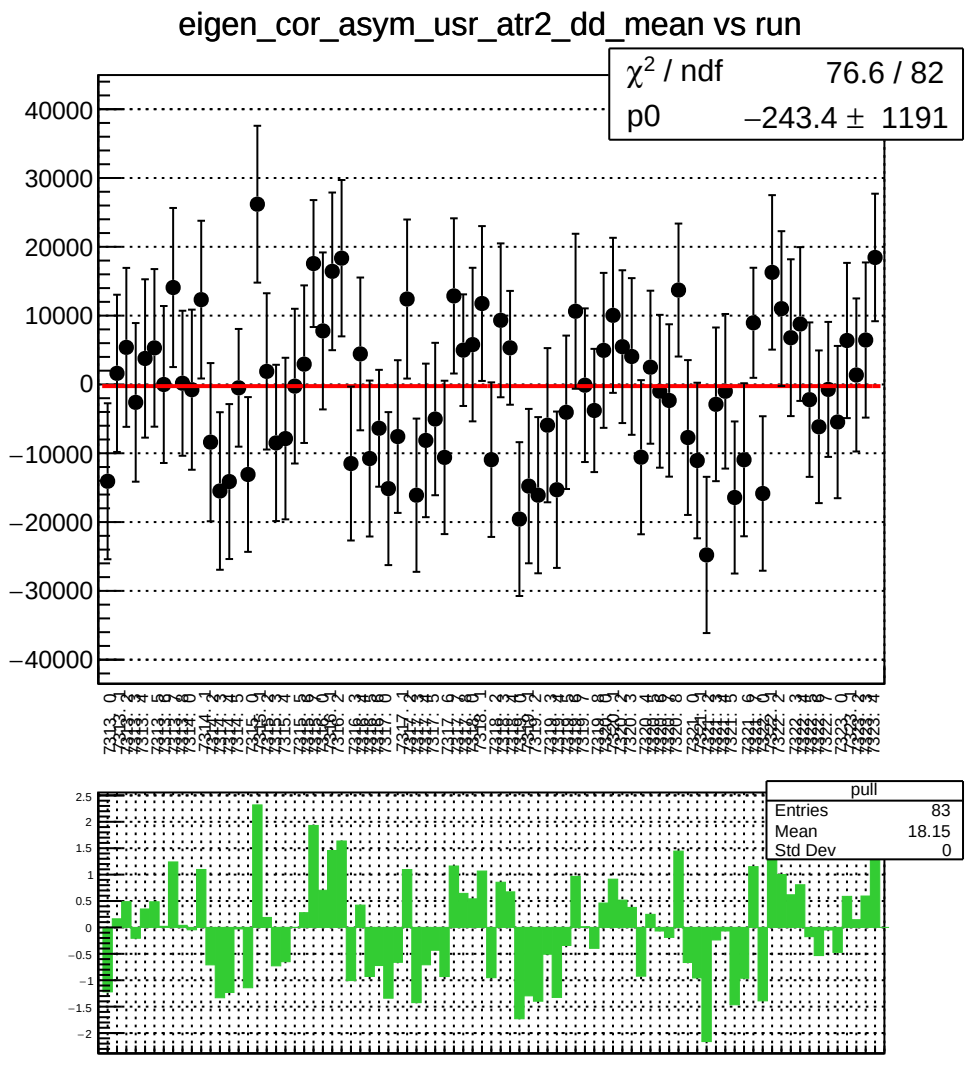

pull1D
Entries 83
Mean −0.01812
Std Dev 0.9605

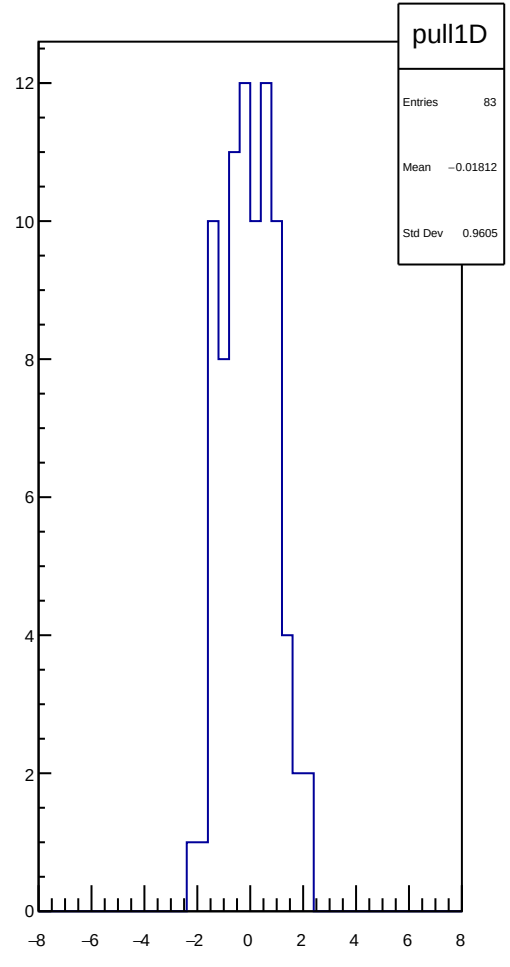

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 257.9 / 82
p0 1069 ± 0.8421
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

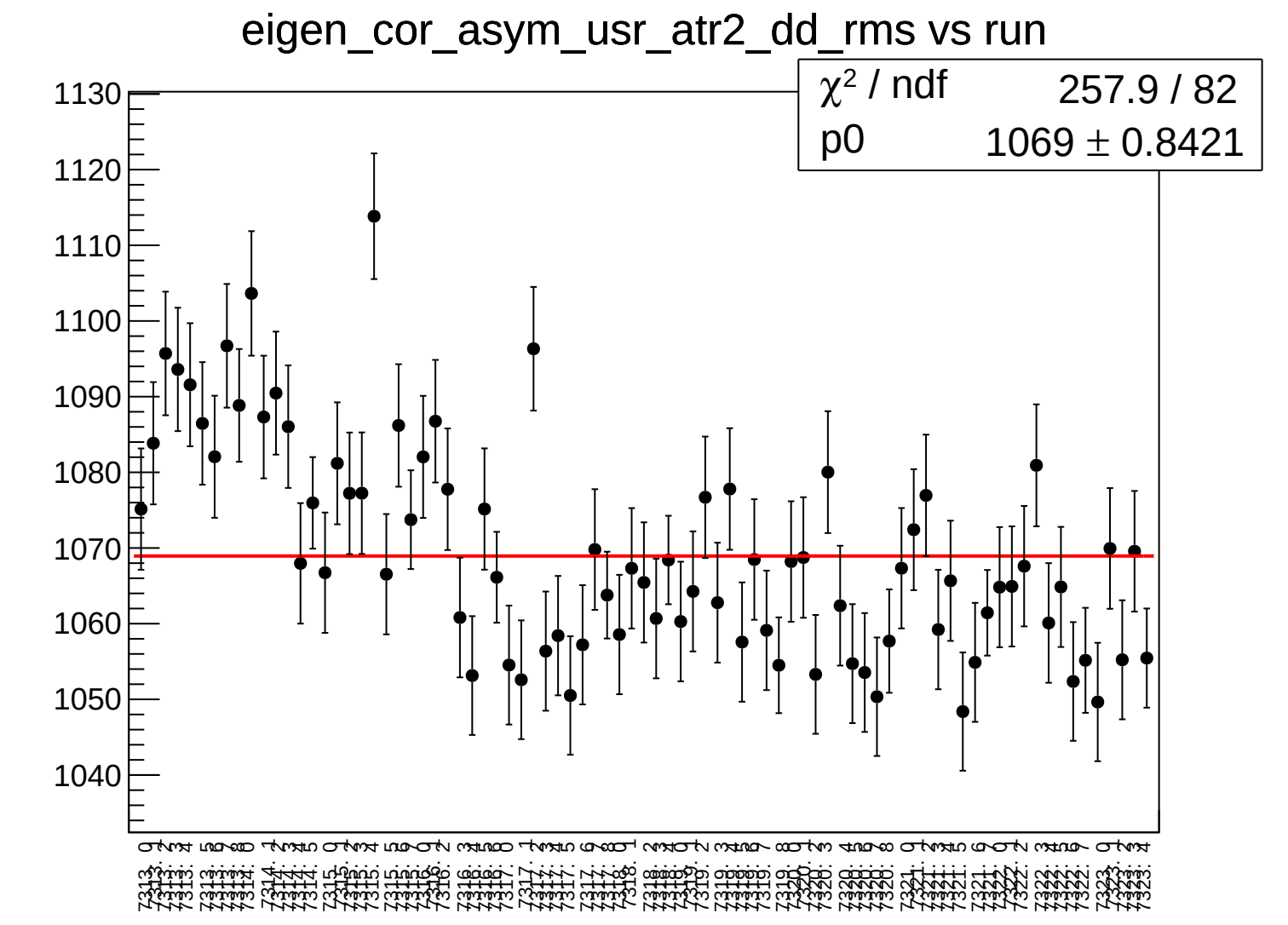

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.47 / 82
p0 −7321 ± 6300
pull
Entries 83
Mean 964.5
Std Dev 0

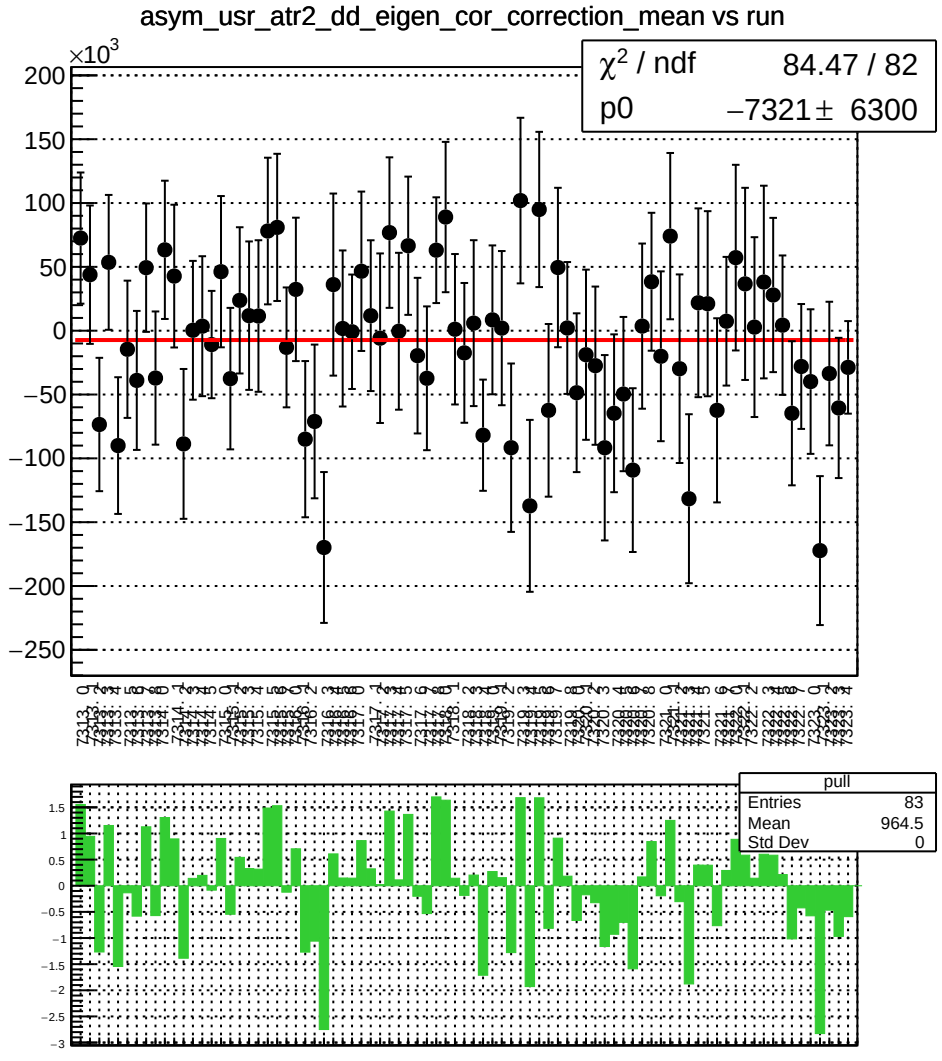

pull1D
Entries 83
Mean −0.005208
Std Dev 1.009

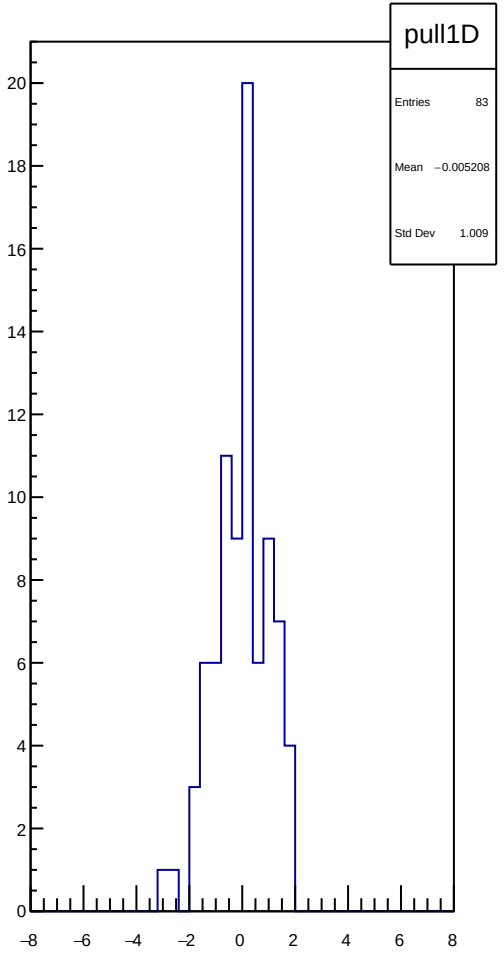

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.747e+04 / 82
p0 5624 ± 4.455
7500
7000
6500
6000
5500
5000
4500
4000

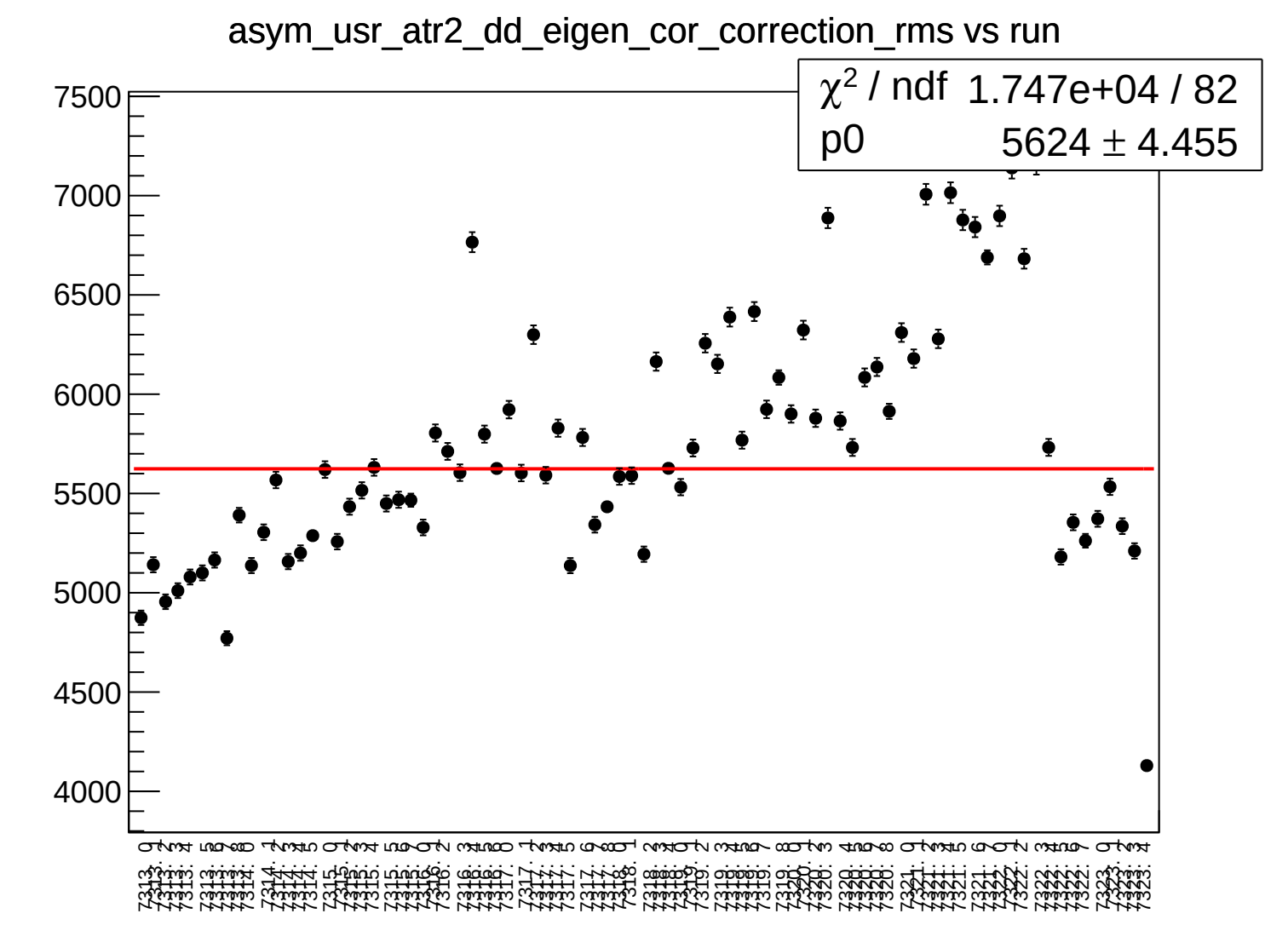

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 76.6 / 82
p0 −243.4 ± 1191
pull
Entries 83
Mean 18.15
Std Dev 0

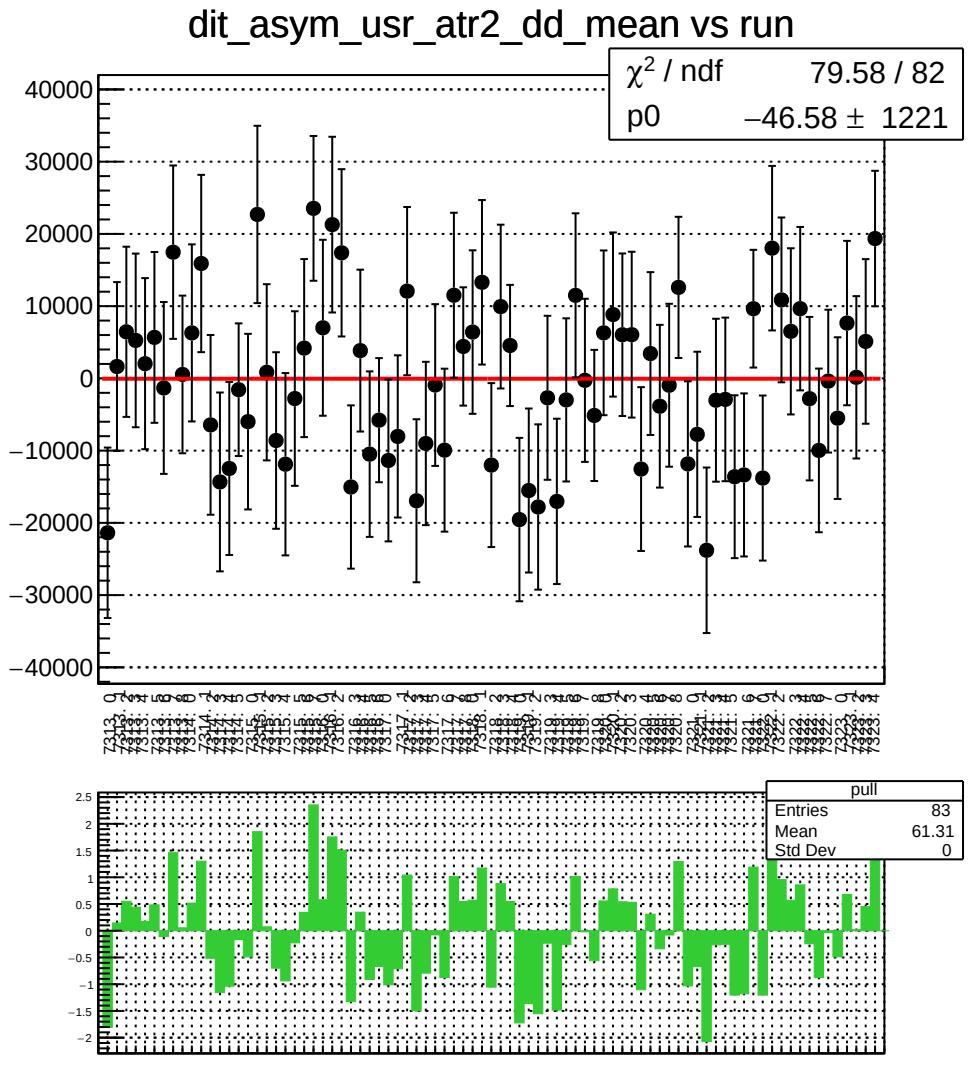

pull1D
Entries 83
Mean −0.01812
Std Dev 0.9605

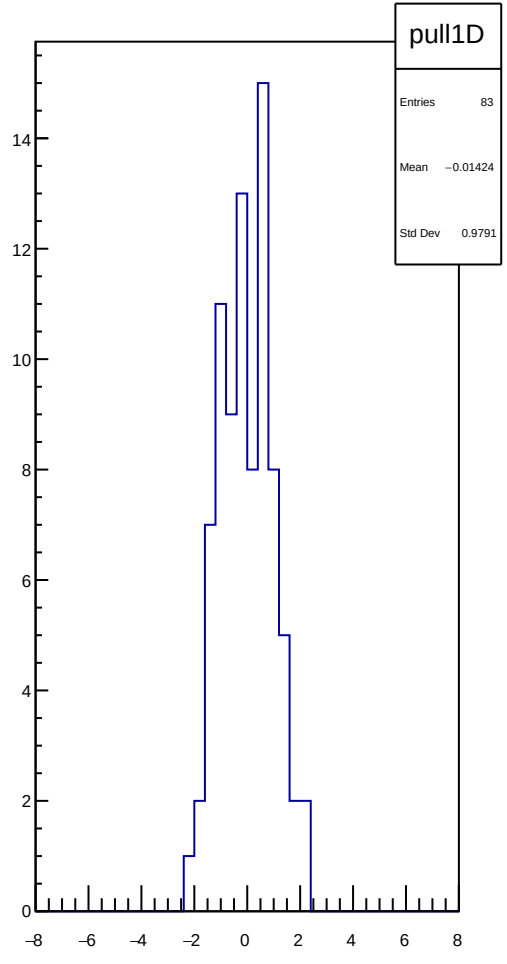

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 257.9 / 82
p0 1069 ± 0.8421
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

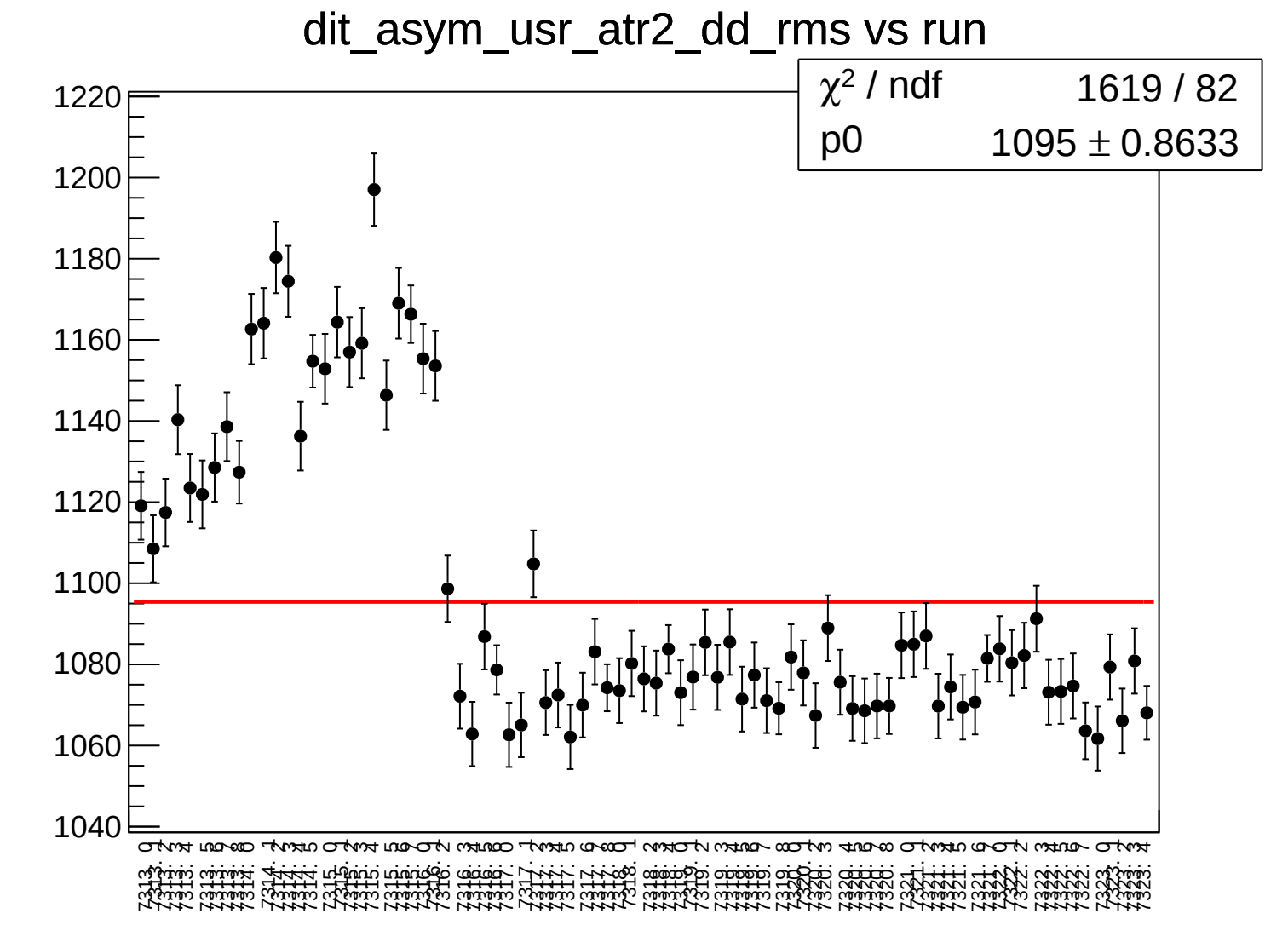

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.47 / 82
p0 −7321 ± 6300
pull
Entries 83
Mean 964.5
Std Dev 0

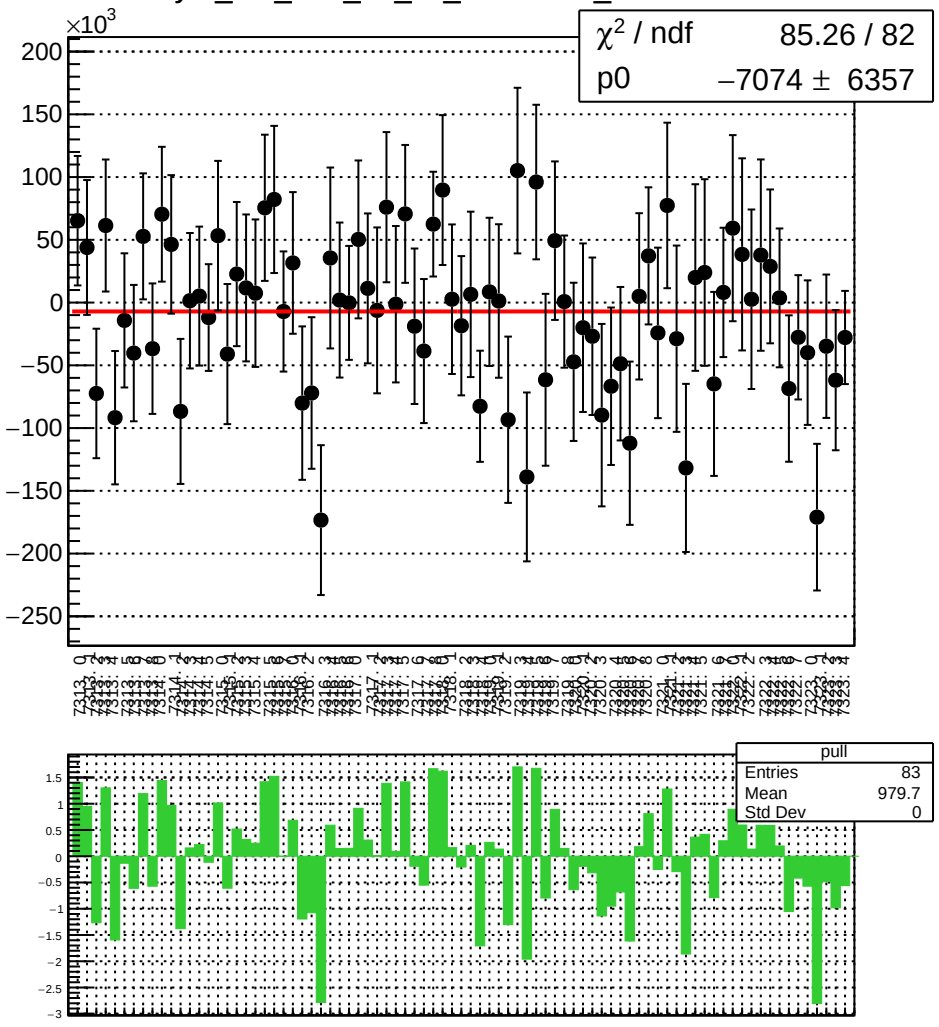

pull1D
Entries 83
Mean −0.005208
Std Dev 1.009

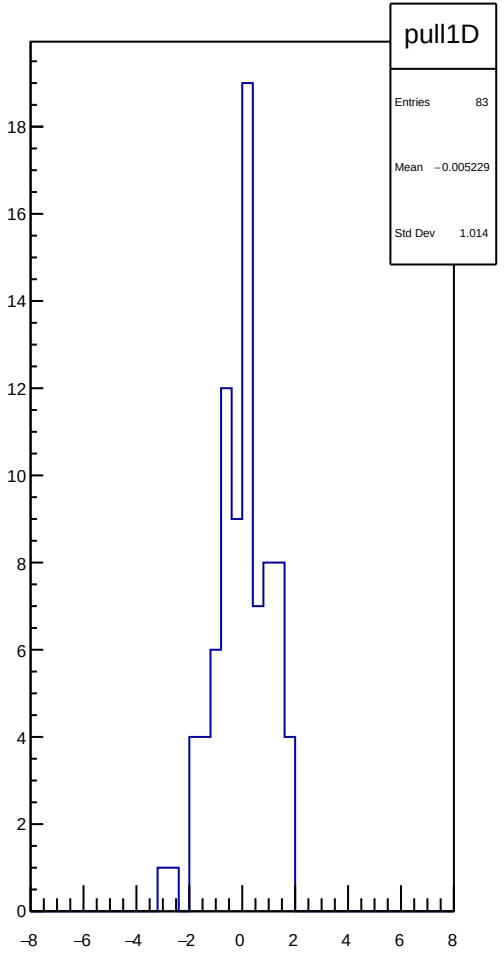

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.747e+04 / 82
p0 5624 ± 4.455
7500
7000
6500
6000
5500
5000
4500
4000

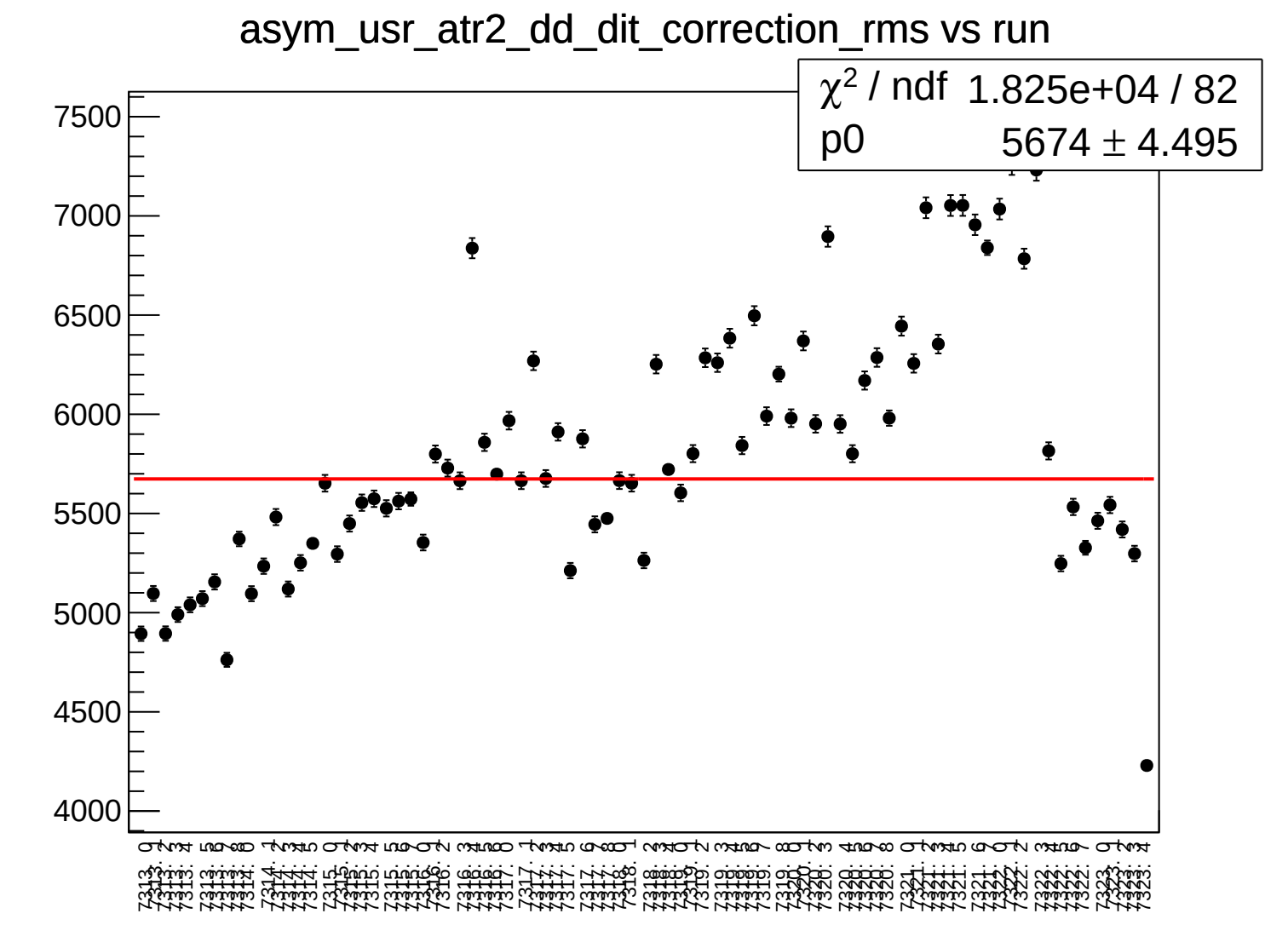

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.58 / 82
p0 −46.58 ± 1221
pull
Entries 83
Mean 61.31
Std Dev 0

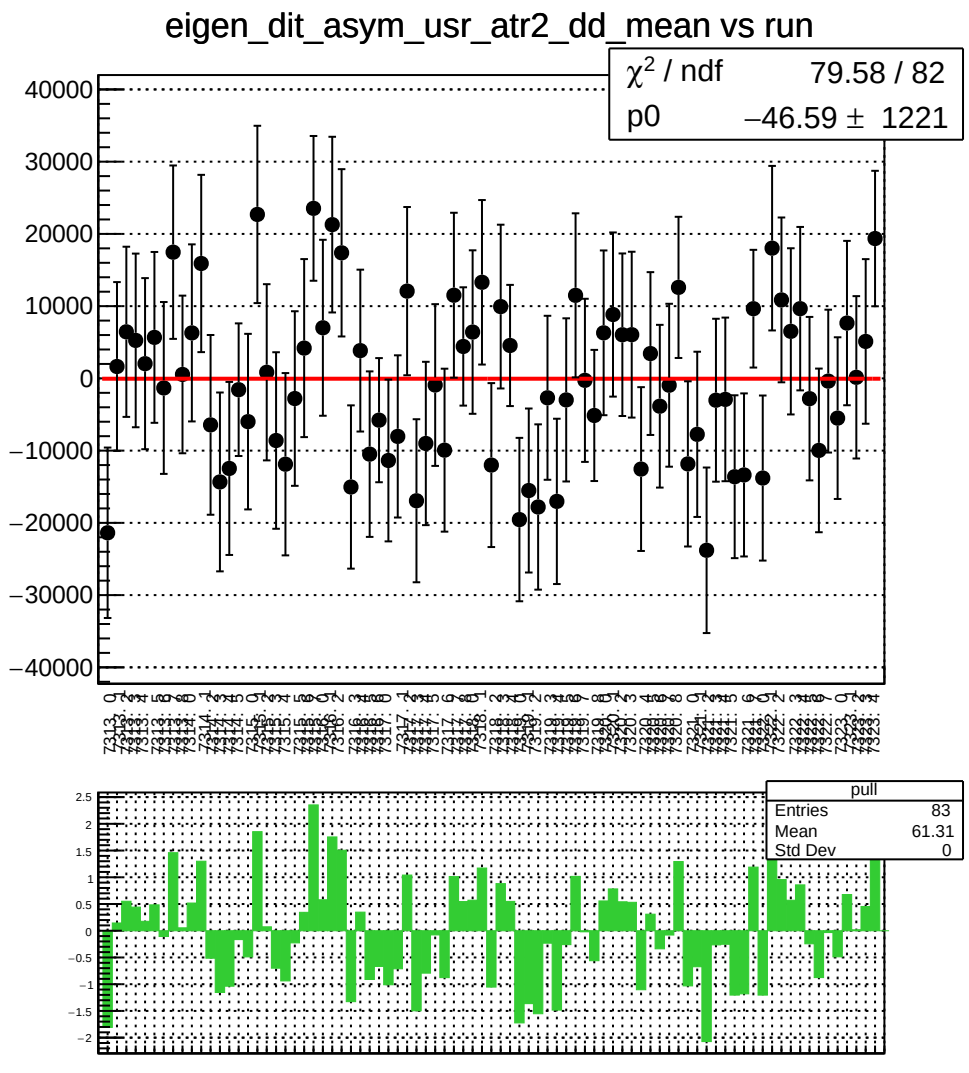

pull1D
Entries 83
Mean −0.01424
Std Dev 0.9791

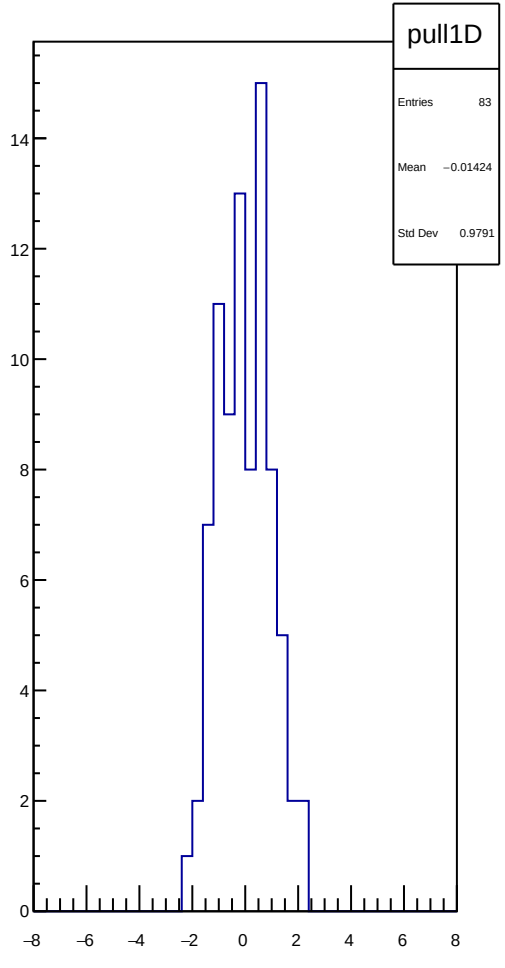

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1619 / 82
p0 1095 ± 0.8633
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

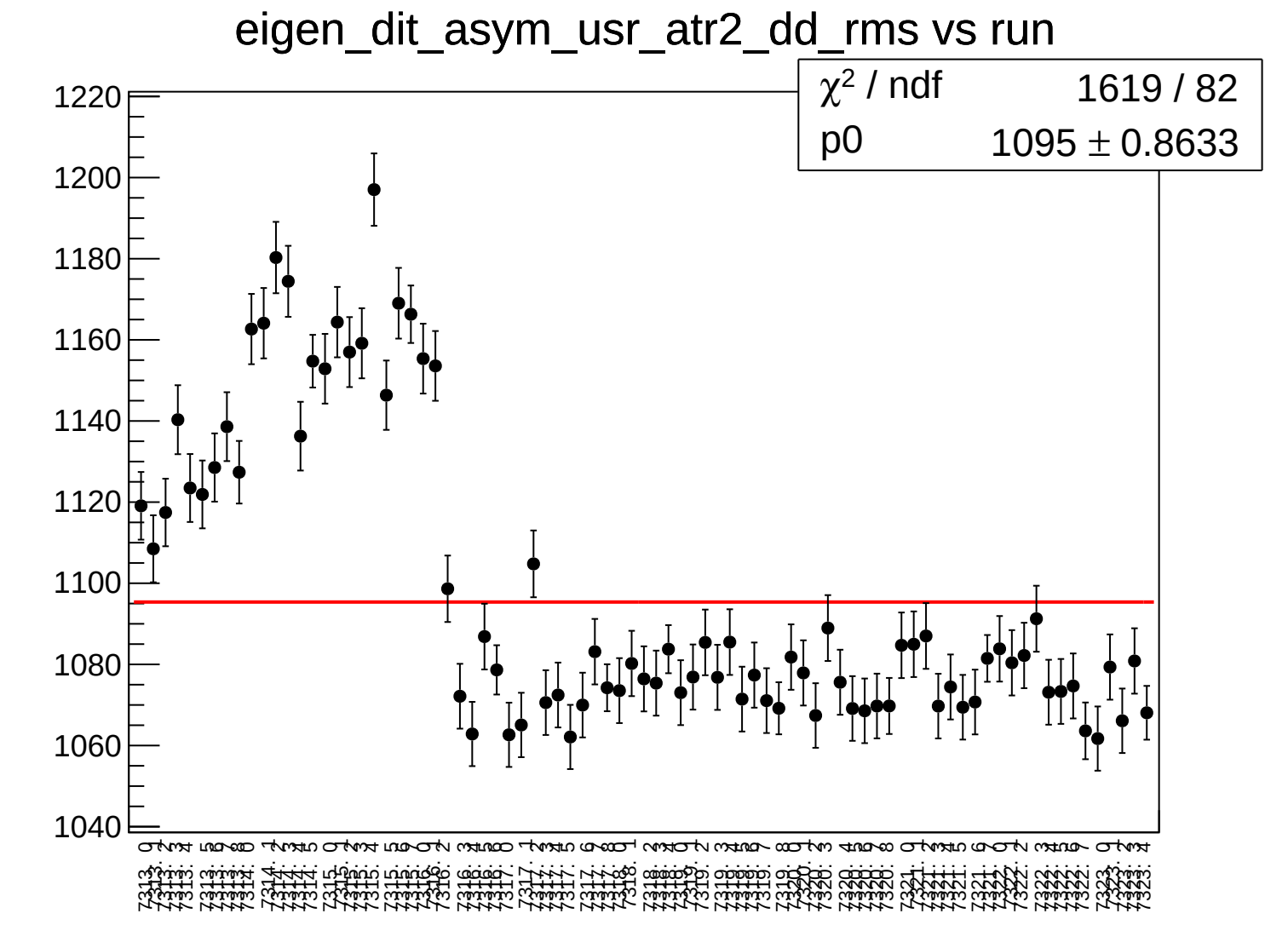

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 85.26 / 82
p0 −7074 ± 6357
pull
Entries 83
Mean 979.7
Std Dev 0

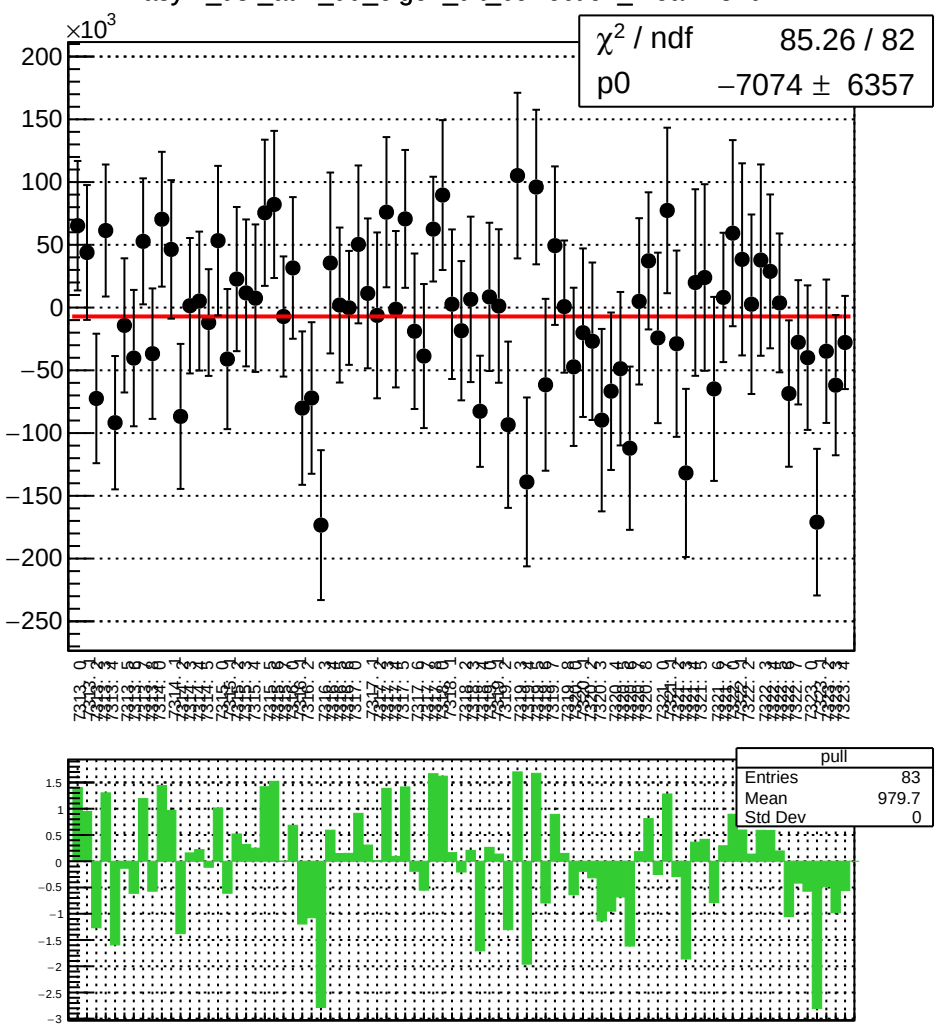

pull1D
Entries 83
Mean −0.005229
Std Dev 1.014

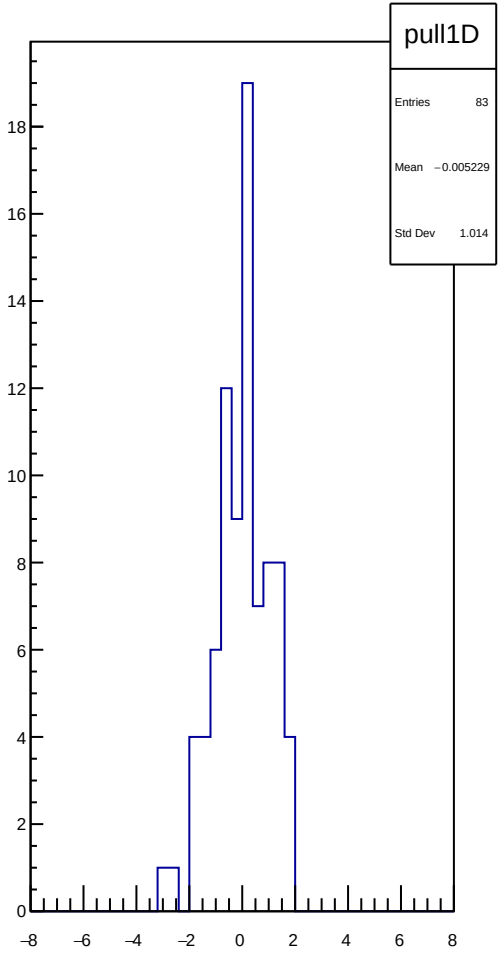

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 5674 ± 4.495
7500
7000
6500
6000
5500
5000
4500
4000

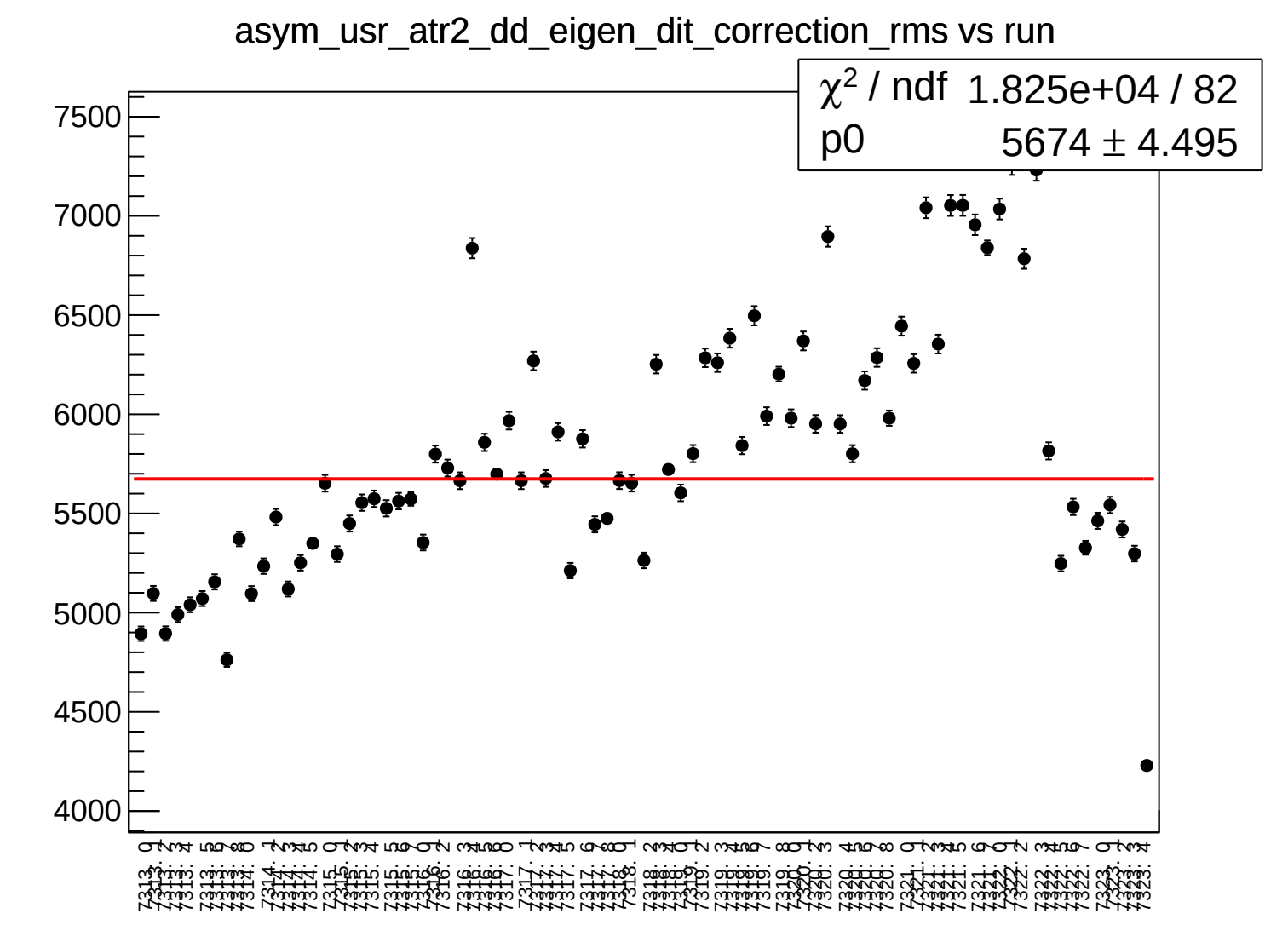

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.58 / 82
p0 −46.59 ± 1221
pull
Entries 83
Mean 61.31
Std Dev 0

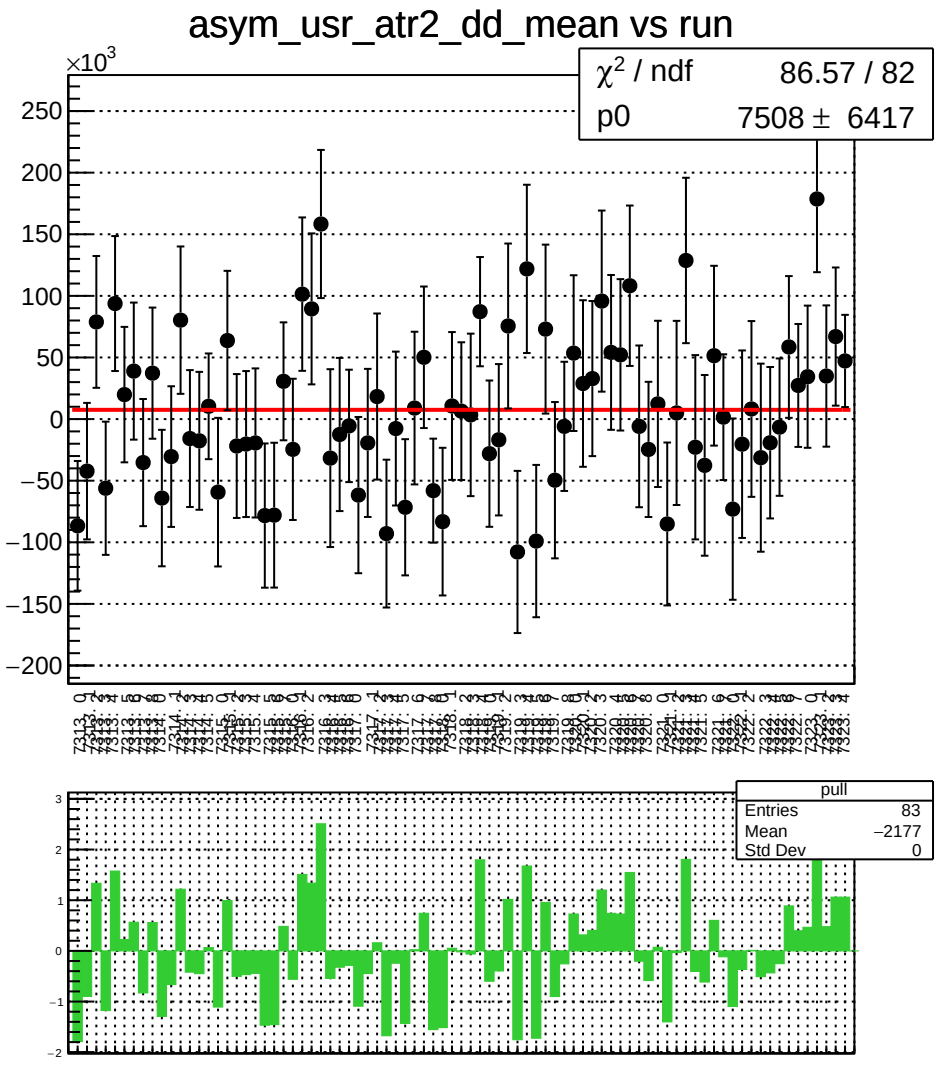

pull1D
Entries 83
Mean −0.01424
Std Dev 0.9791

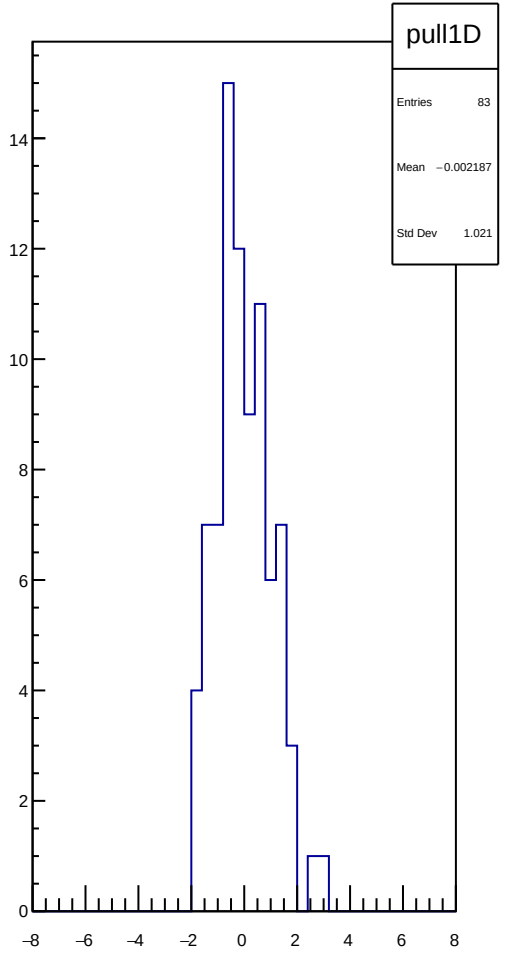

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1619 / 82
p0 1095 ± 0.8633
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

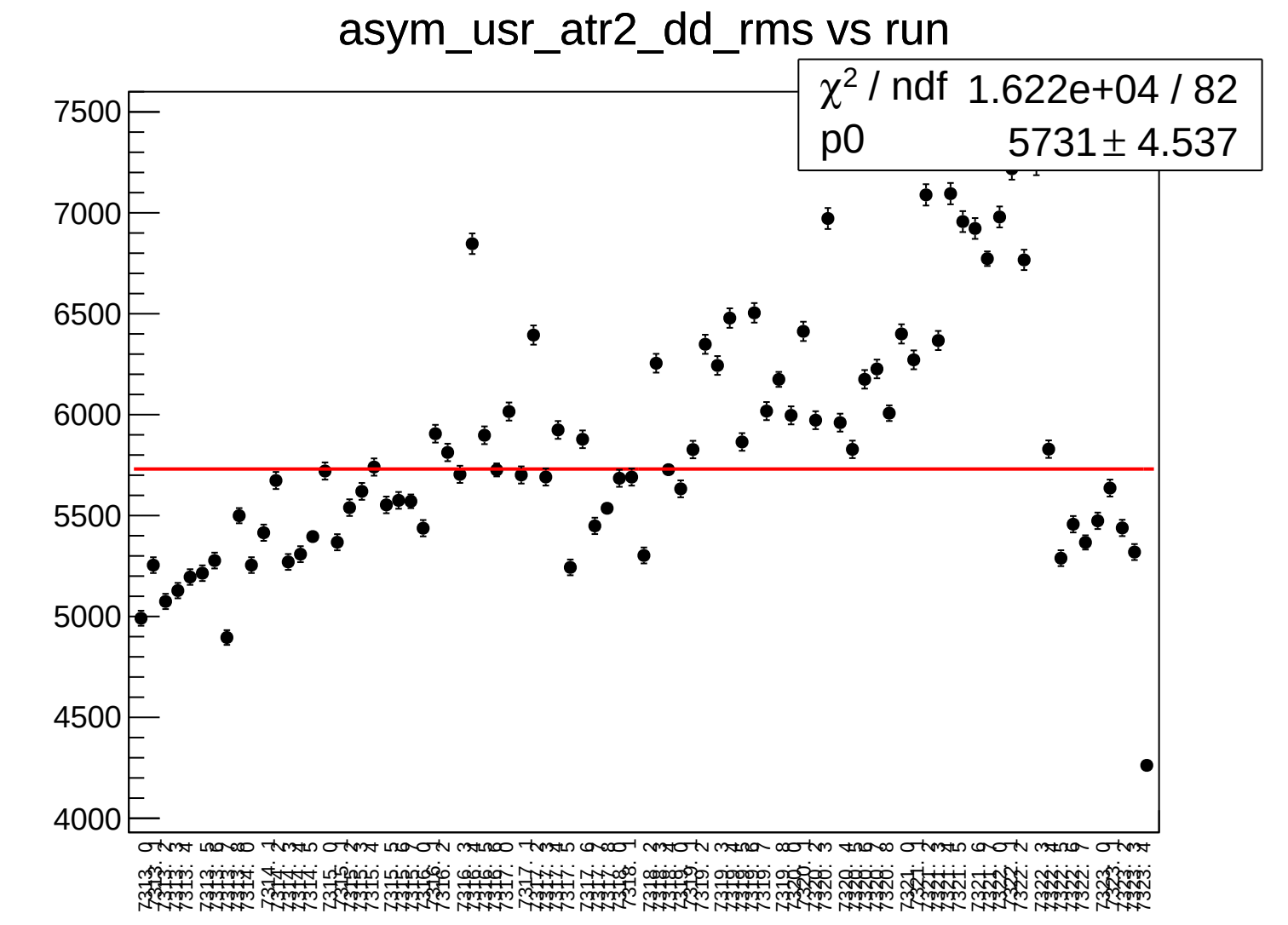

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.26 / 82
p0 −7074 ± 6357
pull
Entries 83
Mean 979.7
Std Dev 0

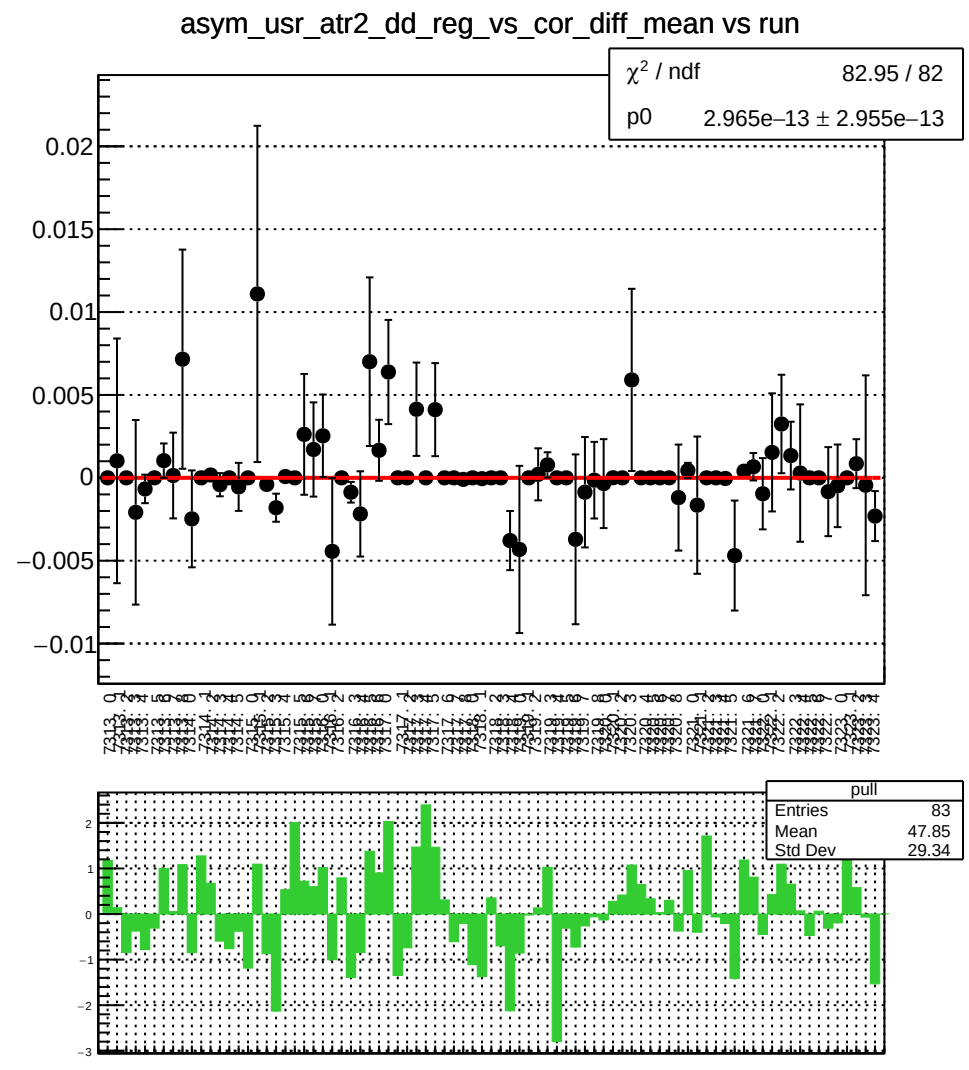

pull1D
Entries 83
Mean −0.005229
Std Dev 1.014

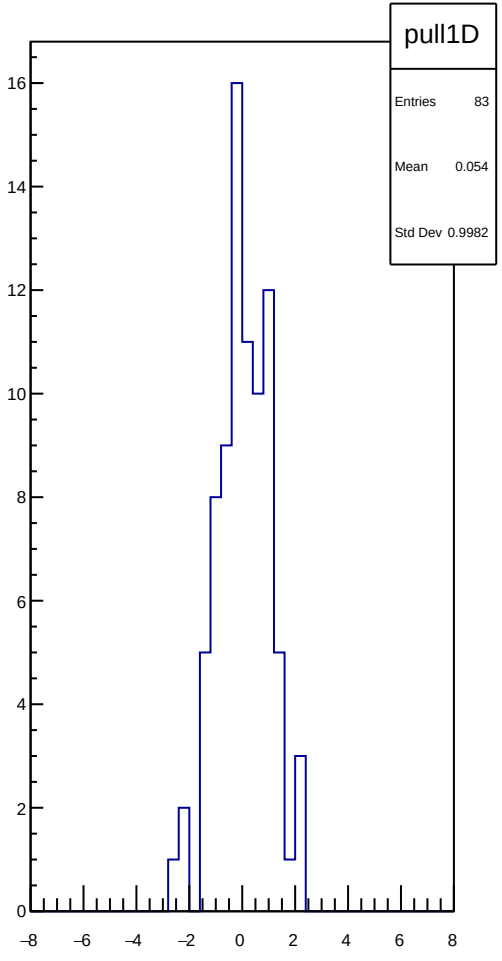

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 5674 ± 4.495
7500
7000
6500
6000
5500
5000
4500
4000

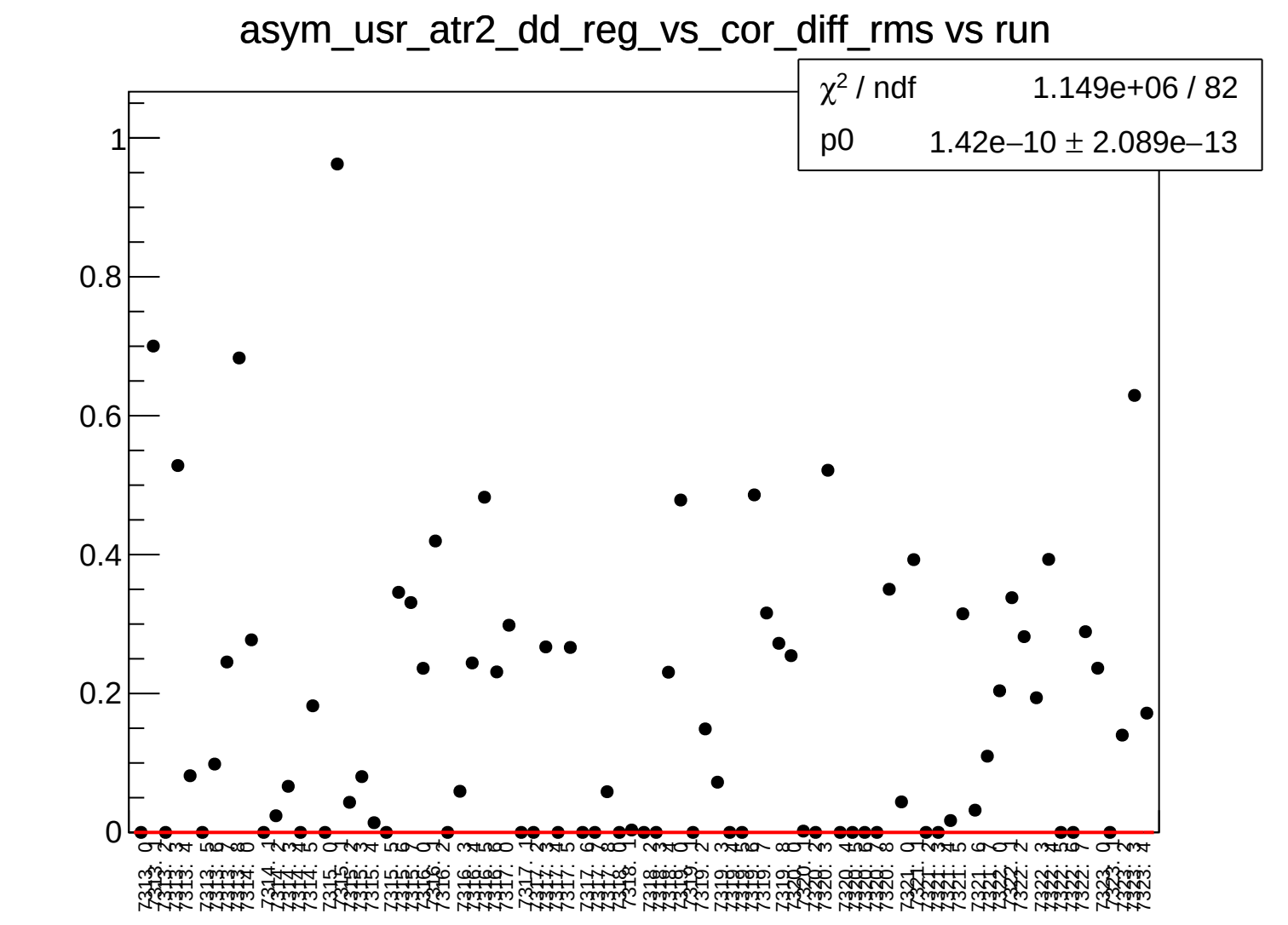

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 86.57 / 82
p0 7508 ± 6417
pull
Entries 83
Mean −2177
Std Dev 0

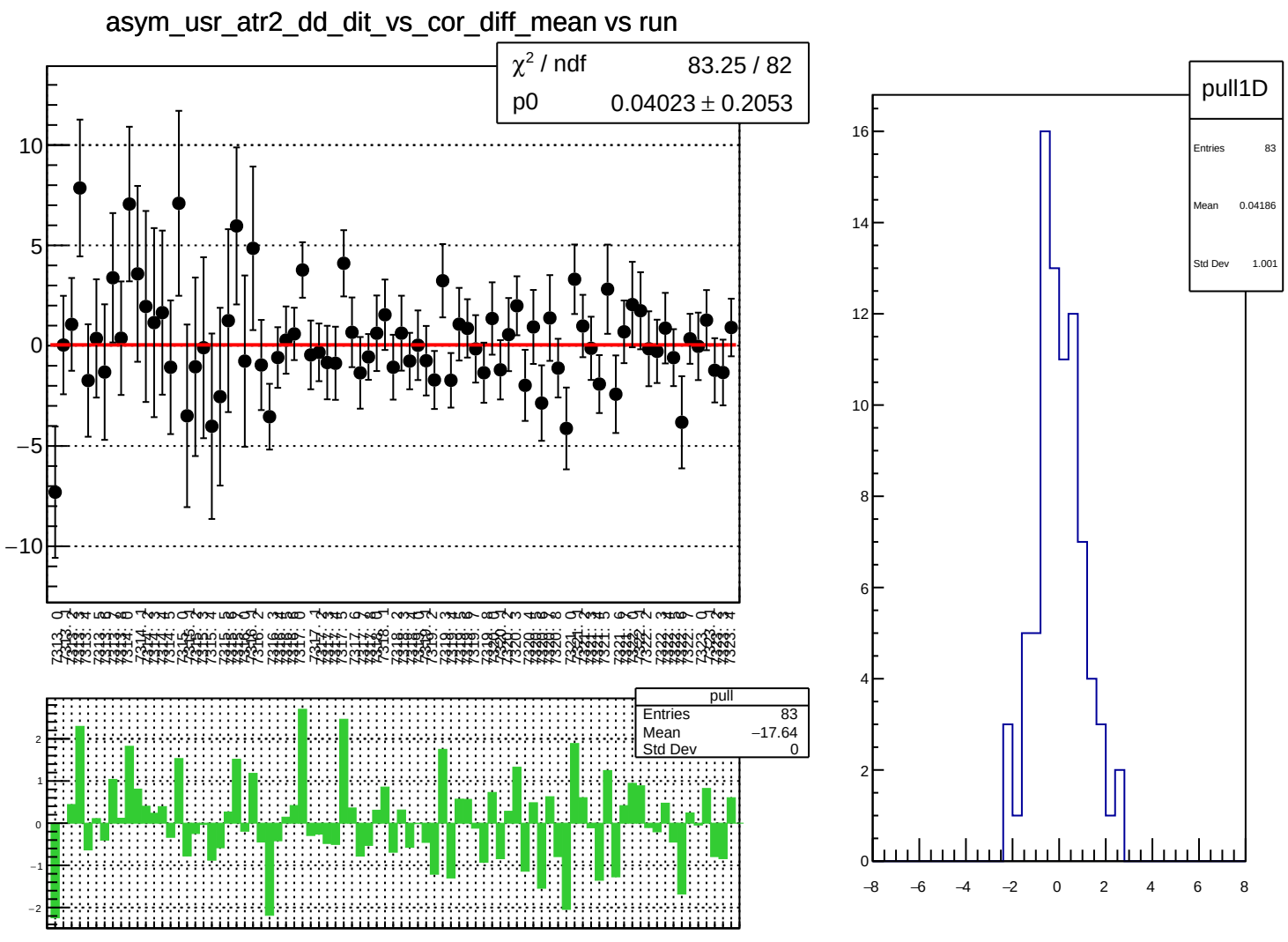

pull1D
Entries 83
Mean −0.002187
Std Dev 1.021

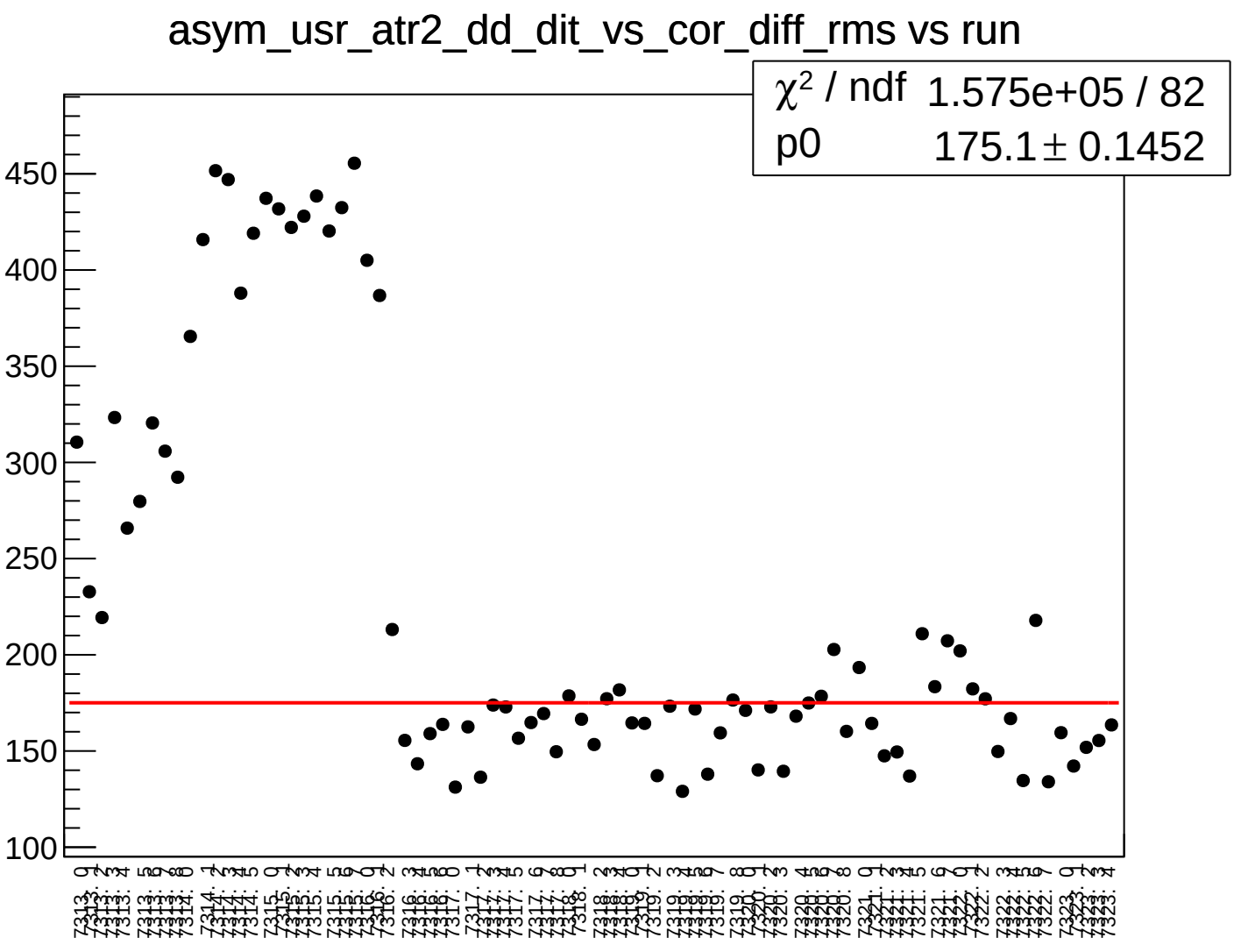

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.622e+04 / 82
p0 5731 ± 4.537
7500
7000
6500
6000
5500
5000
4500
4000

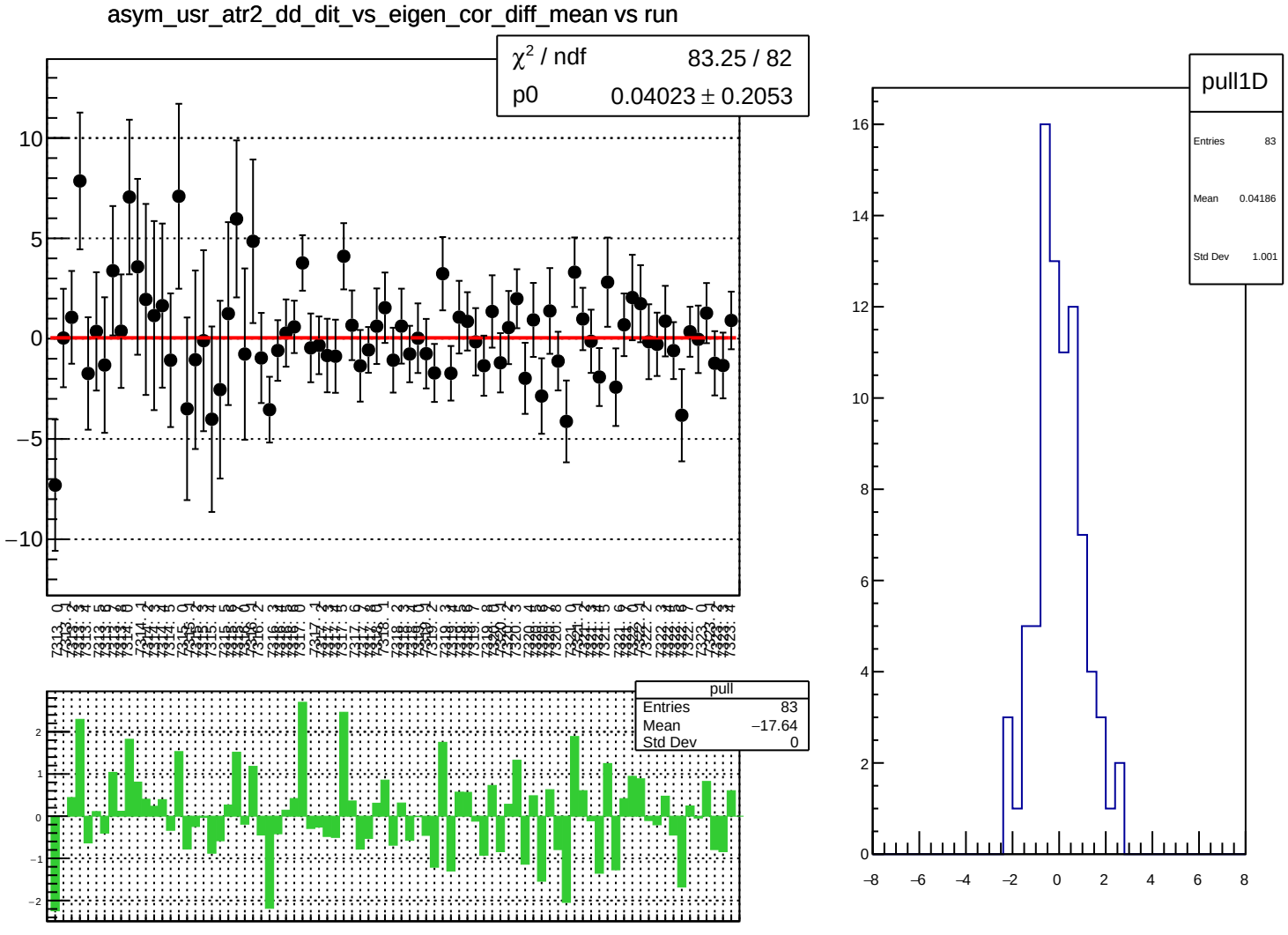

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 82
p0 2.965e−13 ± 2.955e−13
pull
Entries 83
Mean 47.85
Std Dev 29.34

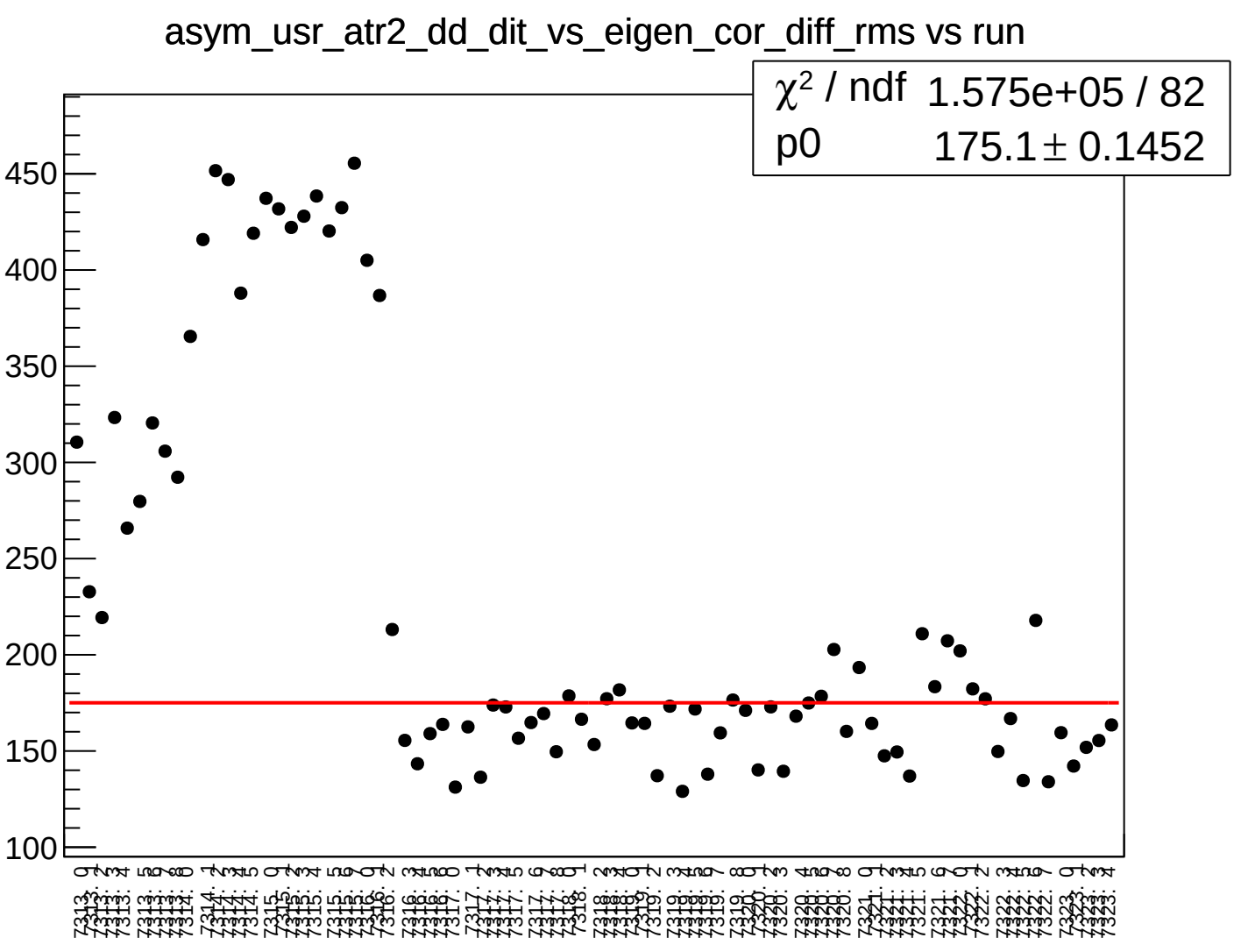

pull1D
Entries 83
Mean 0.054
Std Dev 0.9982

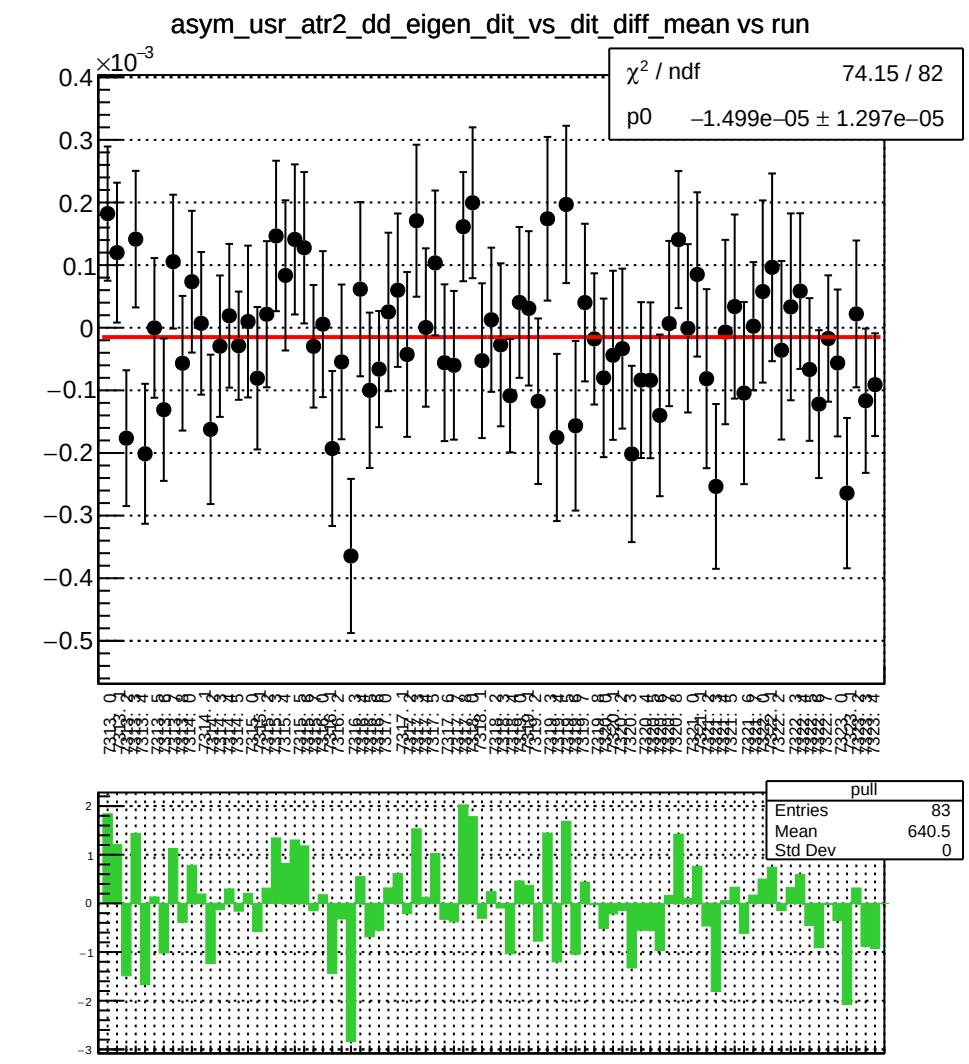

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.149e+06 / 82
p0 1.42e−10 ± 2.089e−13
1
0.8
0.6
0.4
0.2
0

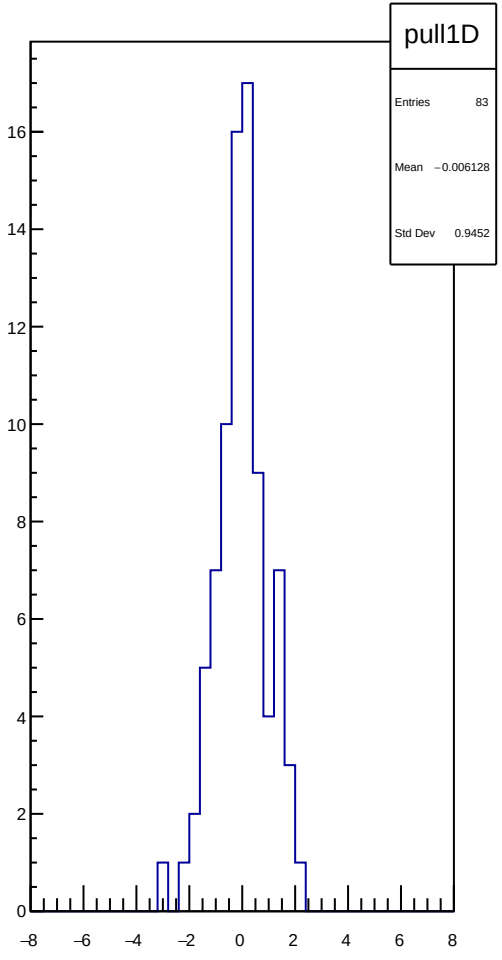

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.25 / 82
p0 0.04023 ± 0.2053
pull
Entries 83
Mean −17.64
Std Dev 0
pull1D
Entries 83
Mean 0.04186
Std Dev 1.001

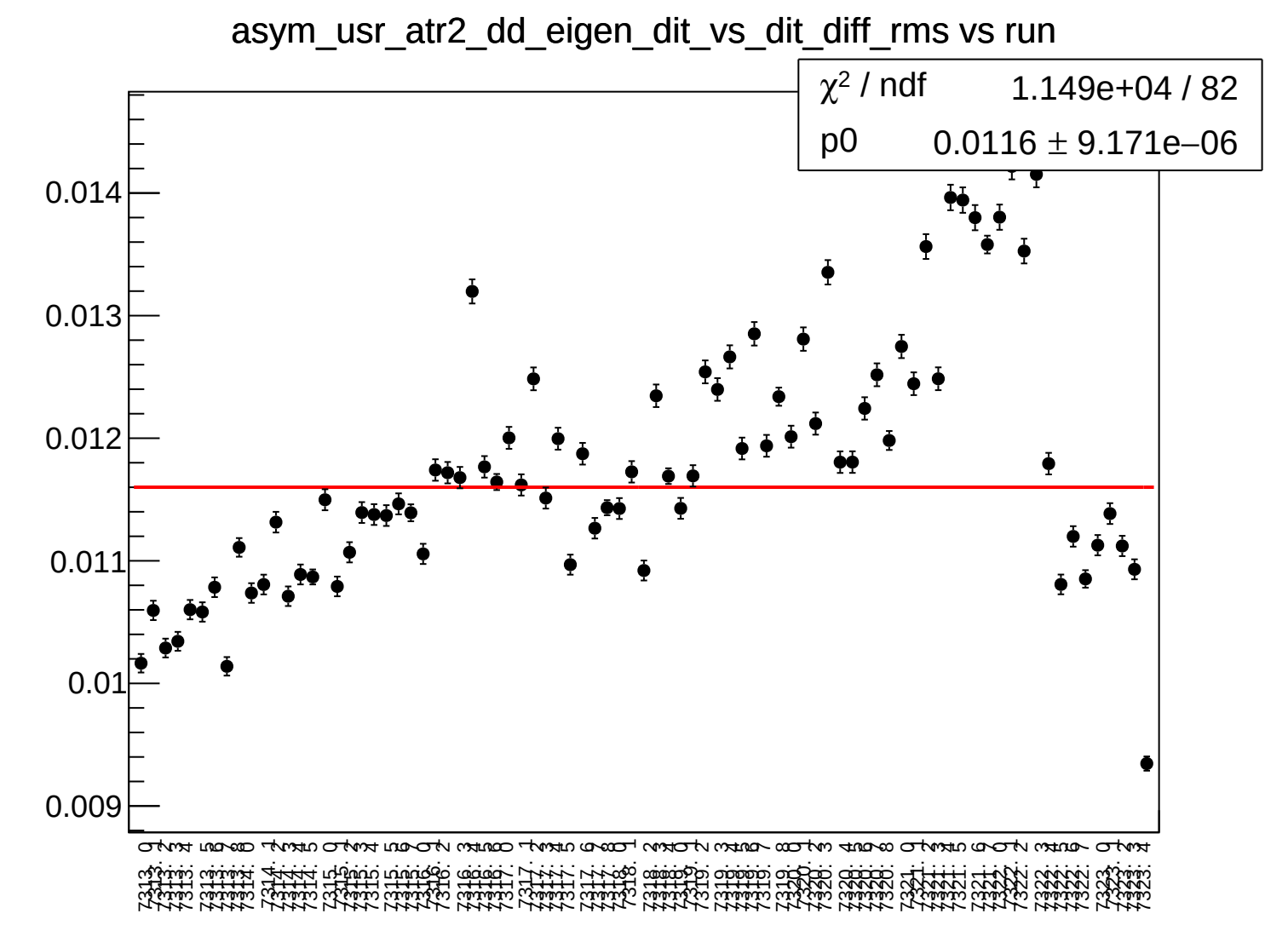

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 82
p0 175.1 ± 0.1452
450
400
350
300
250
200
150
100

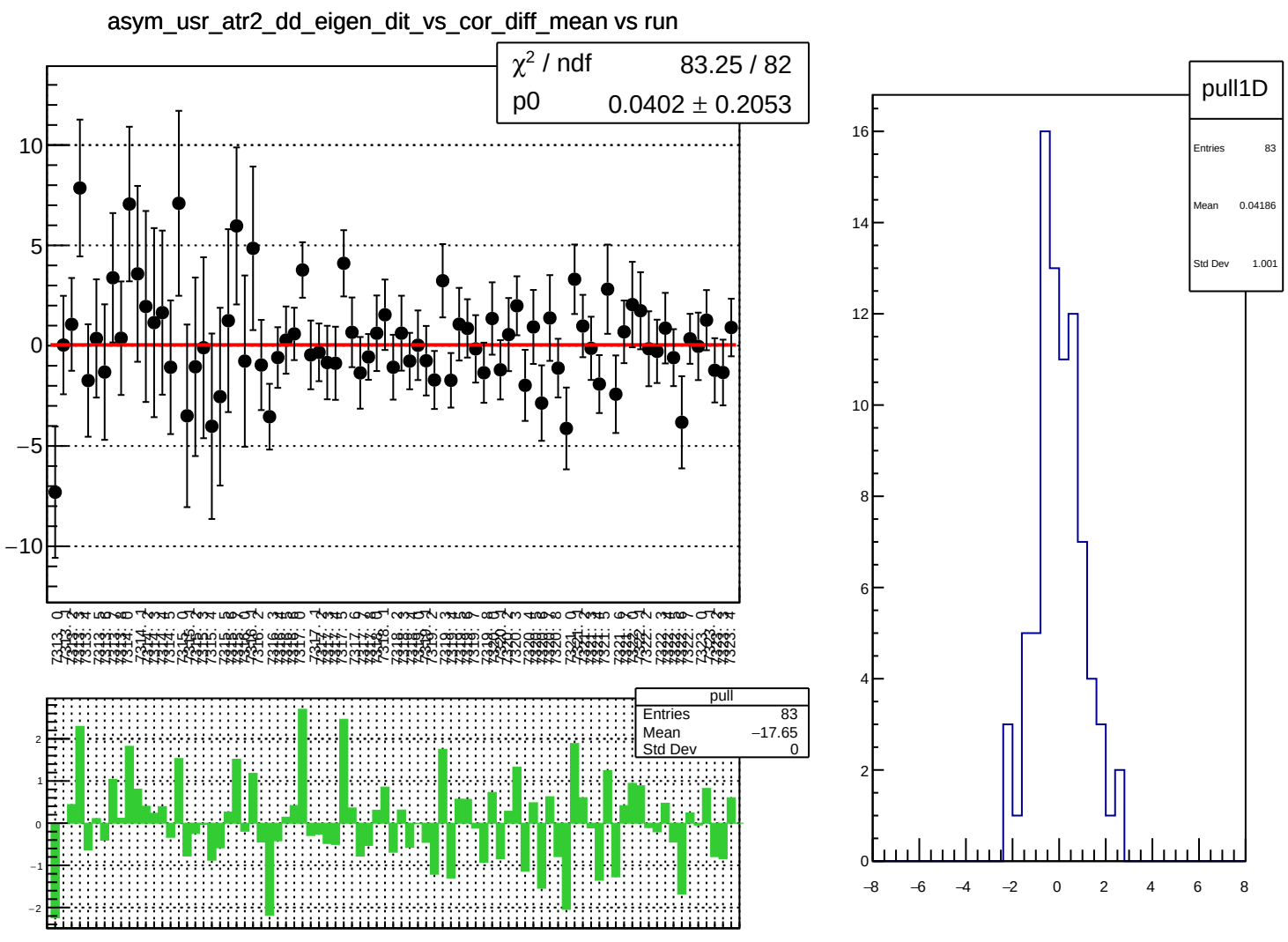

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.25 / 82
p0 0.04023 ± 0.2053
pull
Entries 83
Mean −17.64
Std Dev 0
pull1D
Entries 83
Mean 0.04186
Std Dev 1.001

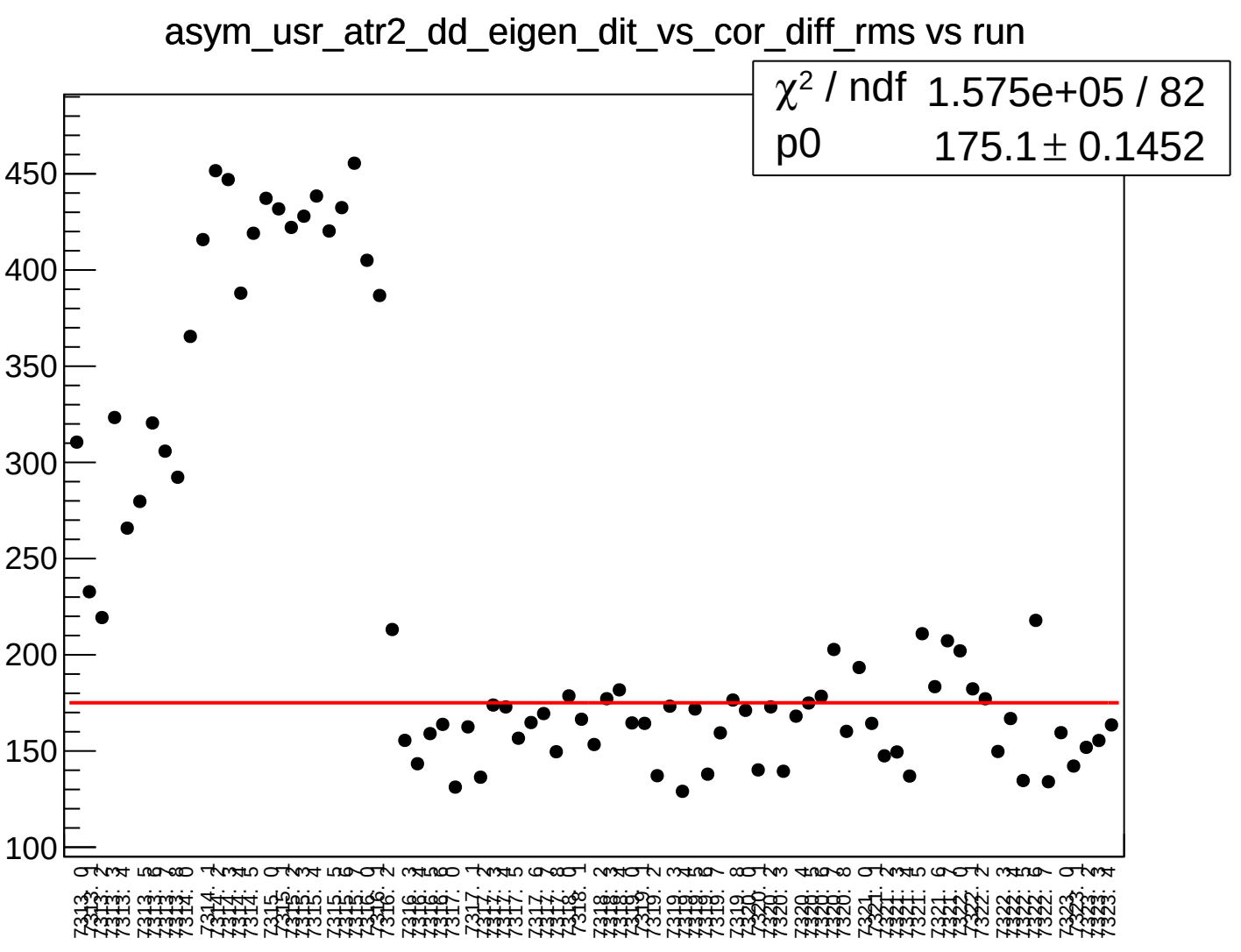

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 82
p0 175.1 ± 0.1452
450
400
350
300
250
200
150
100

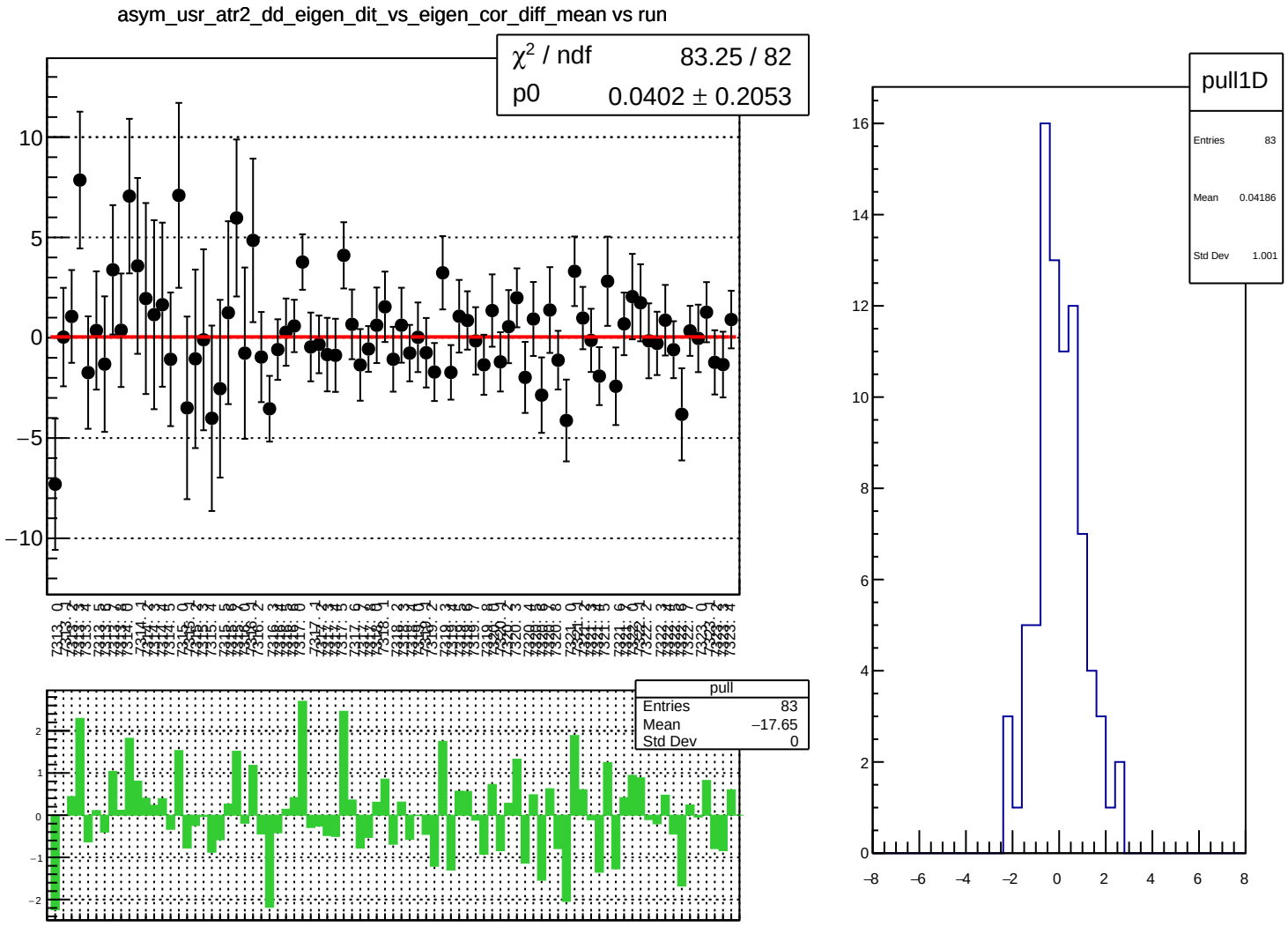

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.15 / 82
p0 −1.499e−05 ± 1.297e−05
pull
Entries 83
Mean 640.5
Std Dev 0

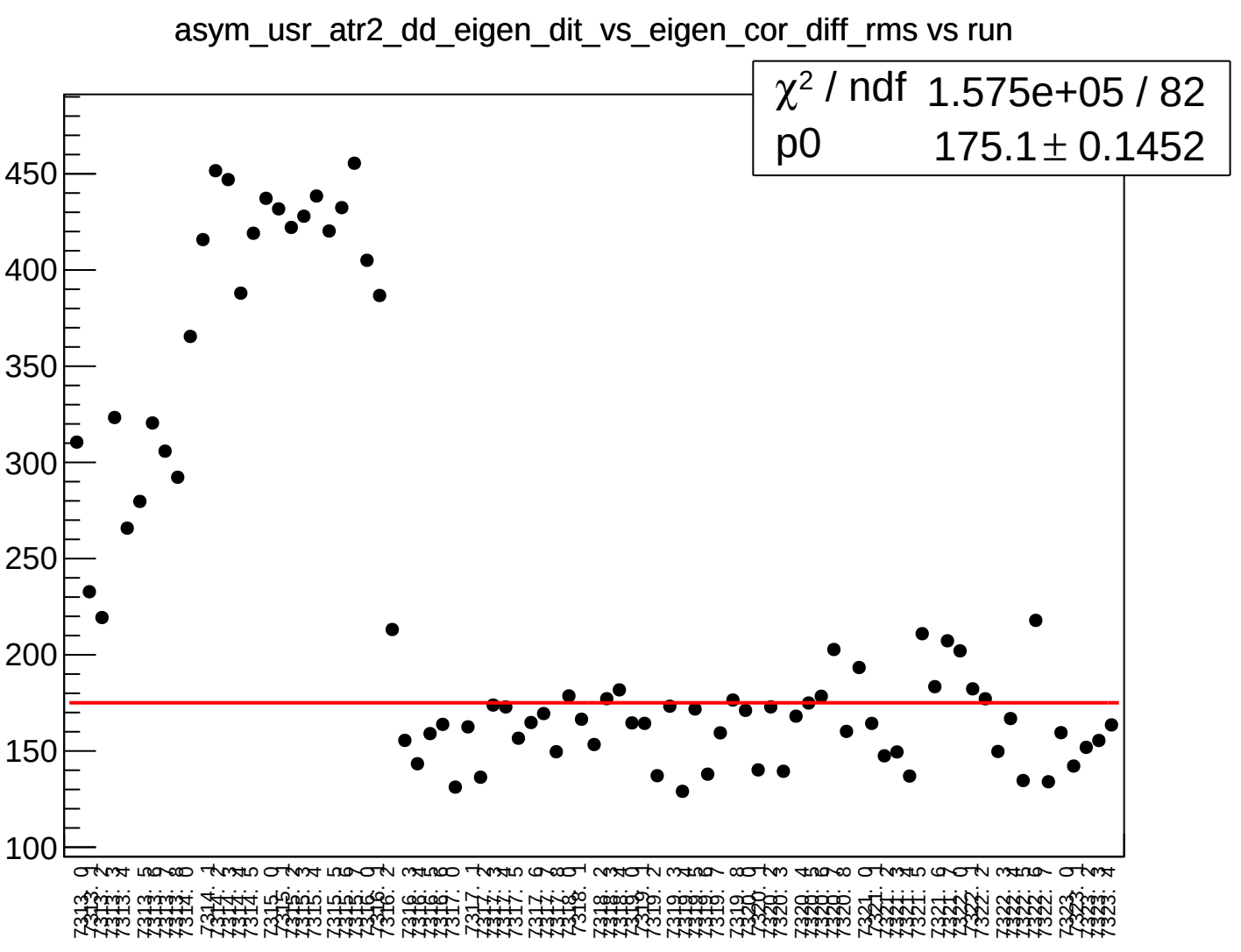

pull1D
Entries 83
Mean −0.006128
Std Dev 0.9452

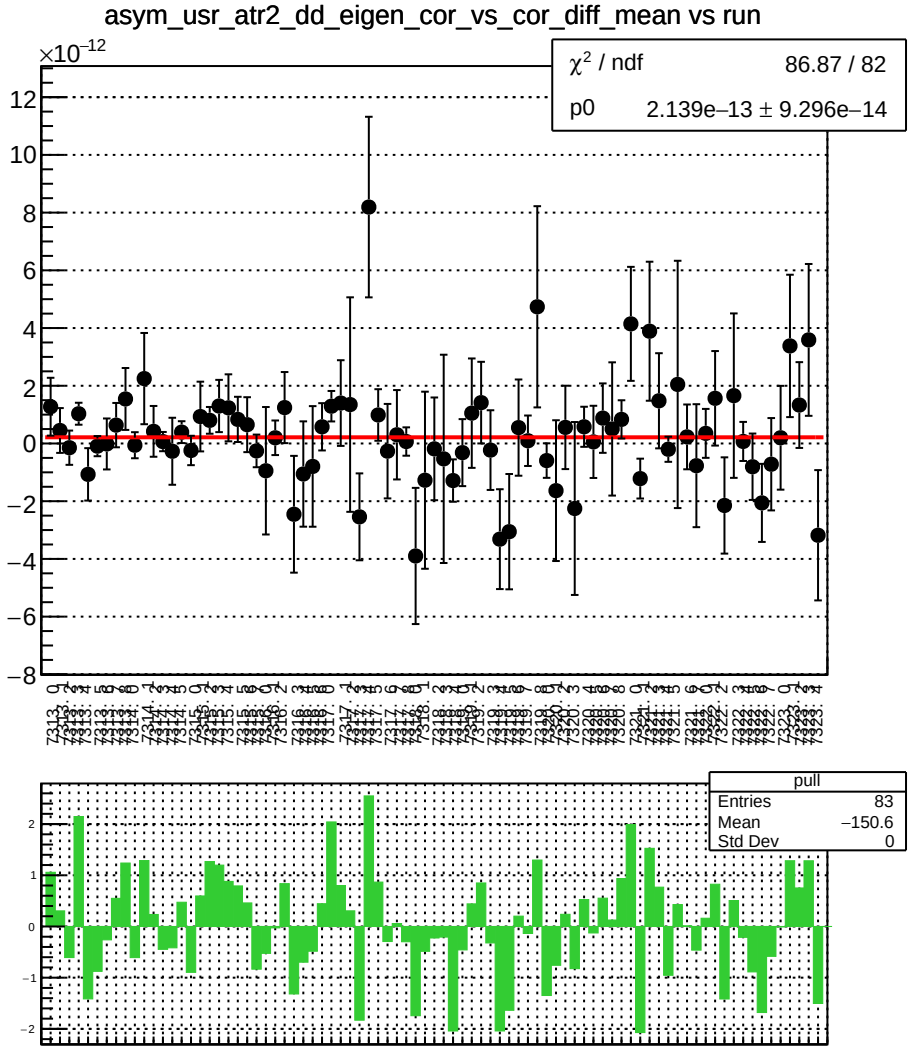

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.149e+04 / 82
p0 0.0116 ± 9.171e−06
0.014
0.013
0.012
0.011
0.01
0.009

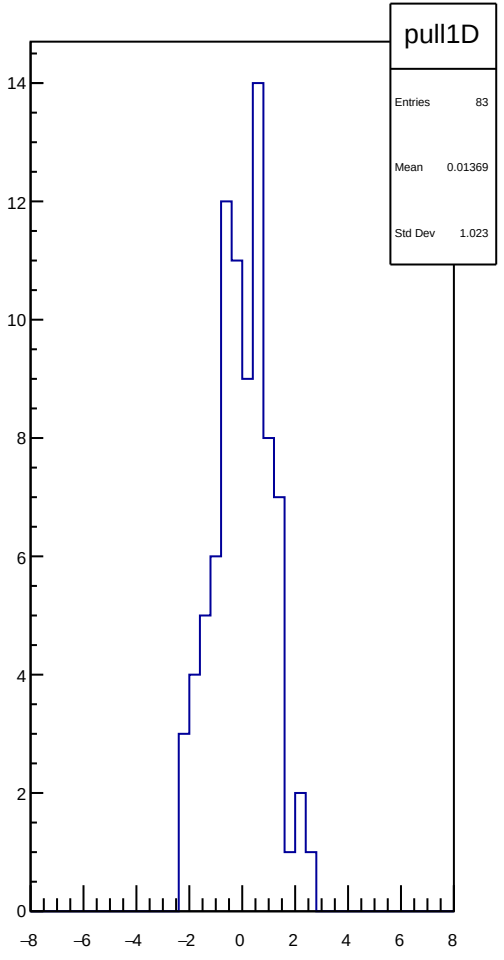

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.25 / 82
p0 0.0402 ± 0.2053
pull
Entries 83
Mean −17.65
Std Dev 0
pull1D
Entries 83
Mean 0.04186
Std Dev 1.001

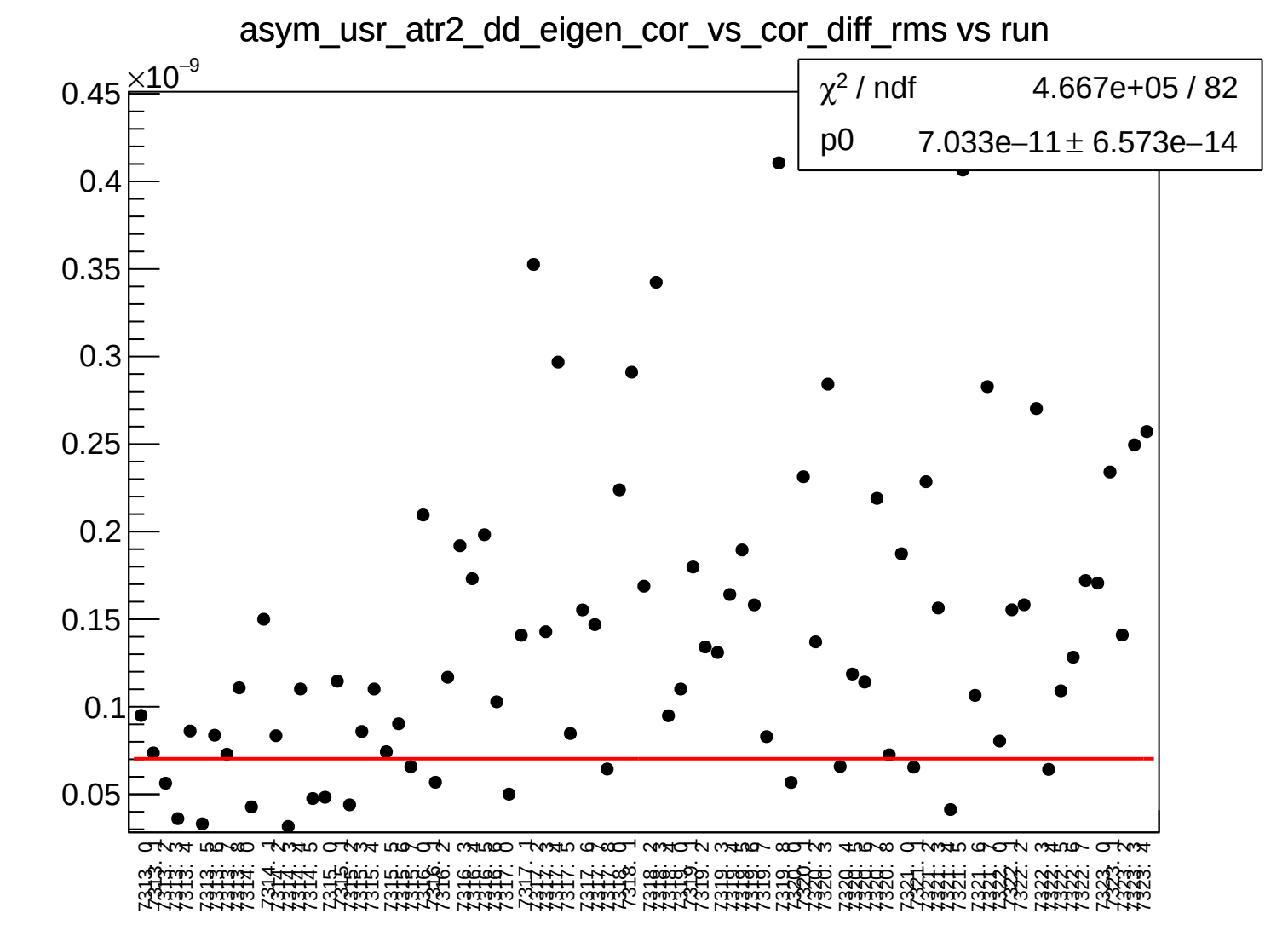

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 82
p0 175.1 ± 0.1452
450
400
350
300
250
200
150
100

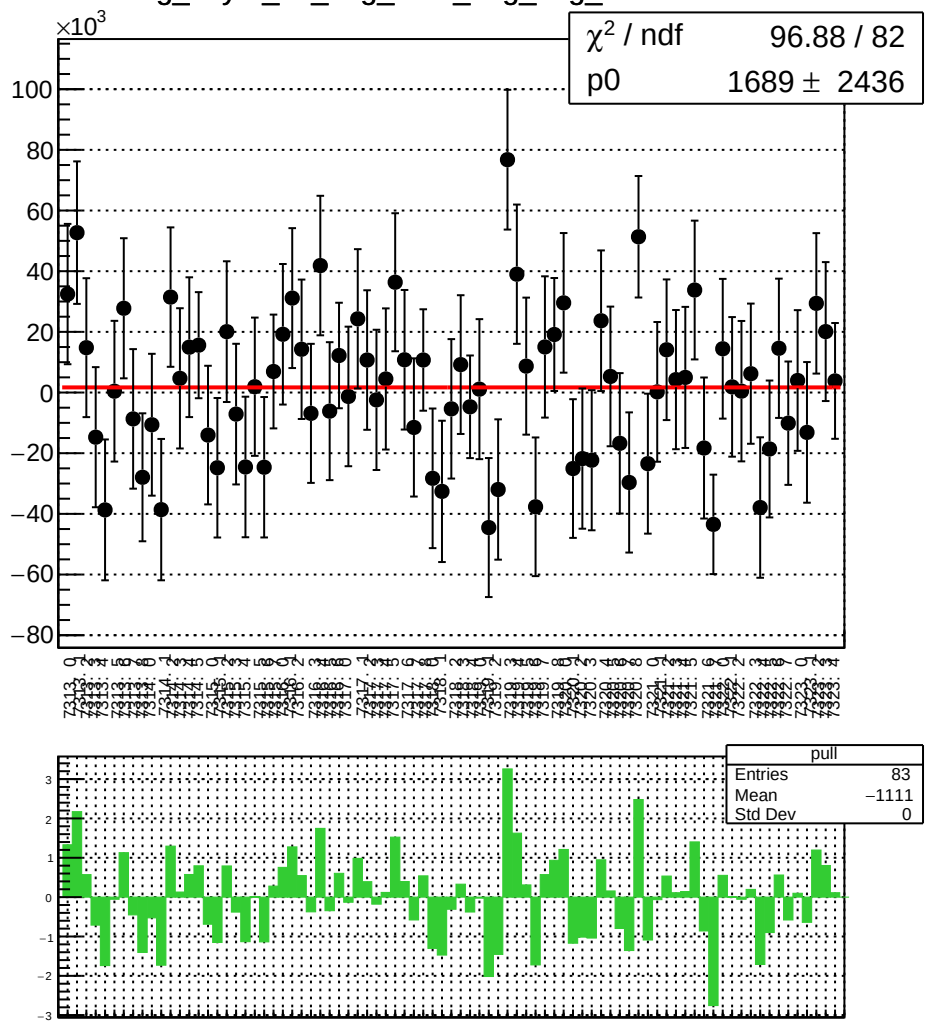

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.25 / 82
p0 0.0402 ± 0.2053
pull
Entries 83
Mean −17.65
Std Dev 0
pull1D
Entries 83
Mean 0.04186
Std Dev 1.001

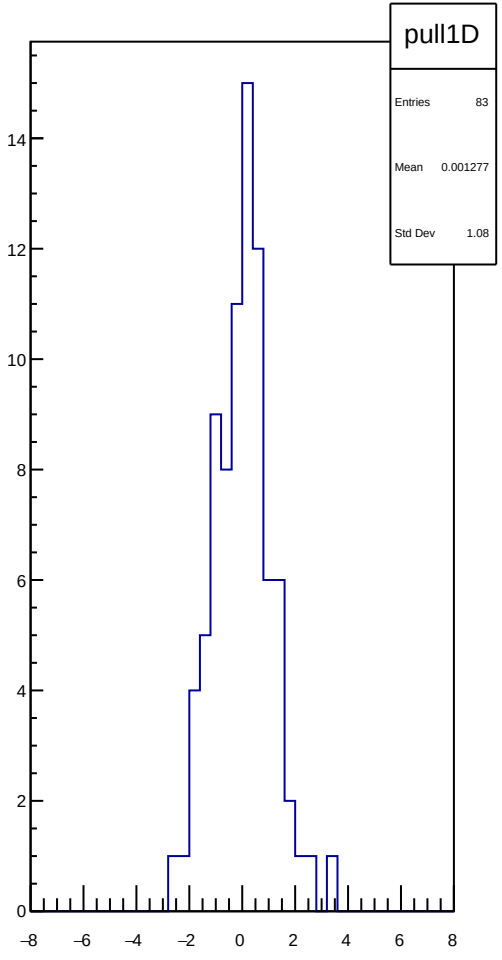

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.575e+05 / 82
p0 175.1 ± 0.1452
450
400
350
300
250
200
150
100

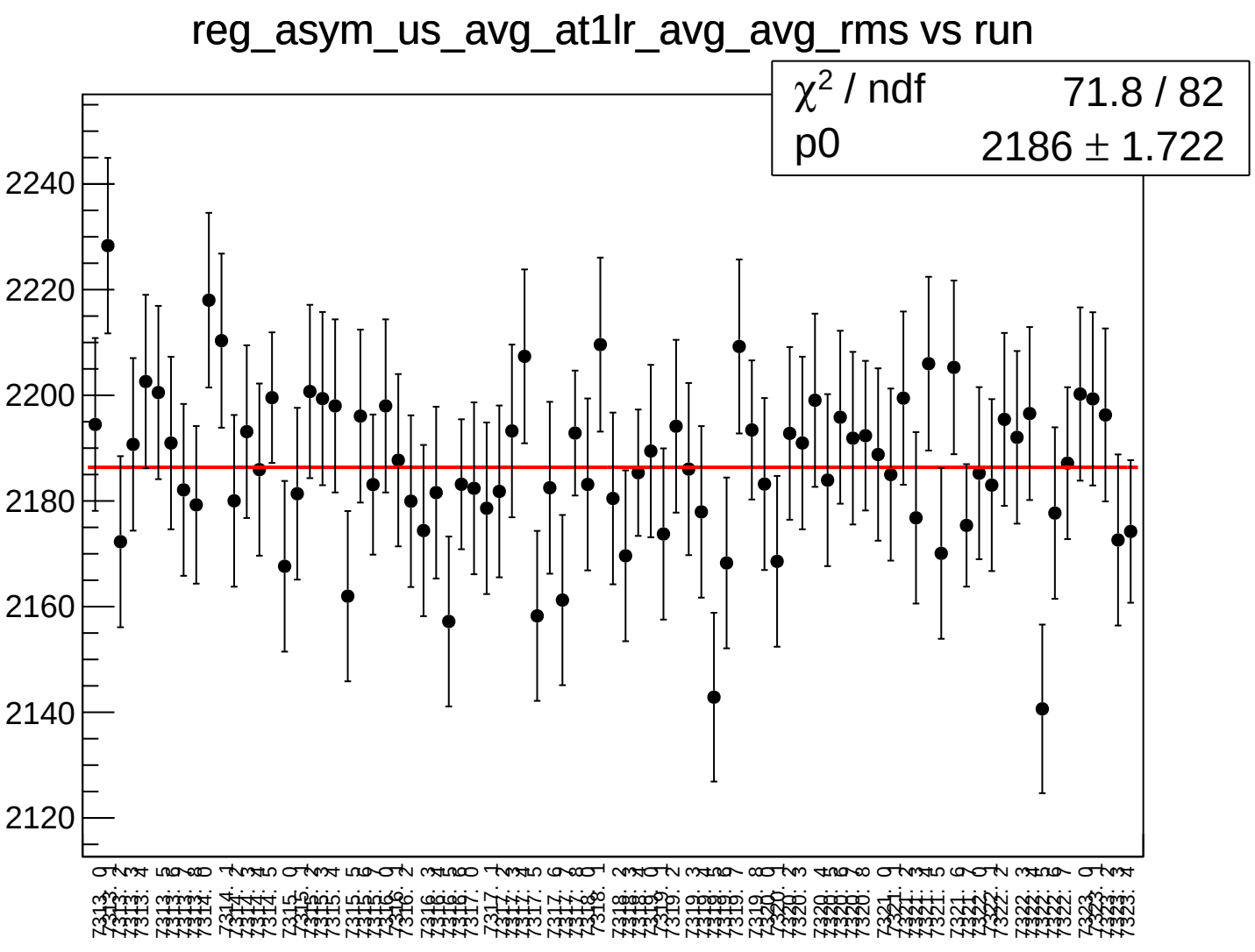

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.87 / 82
p0 2.139e−13 ± 9.296e−14
pull
Entries 83
Mean −150.6
Std Dev 0

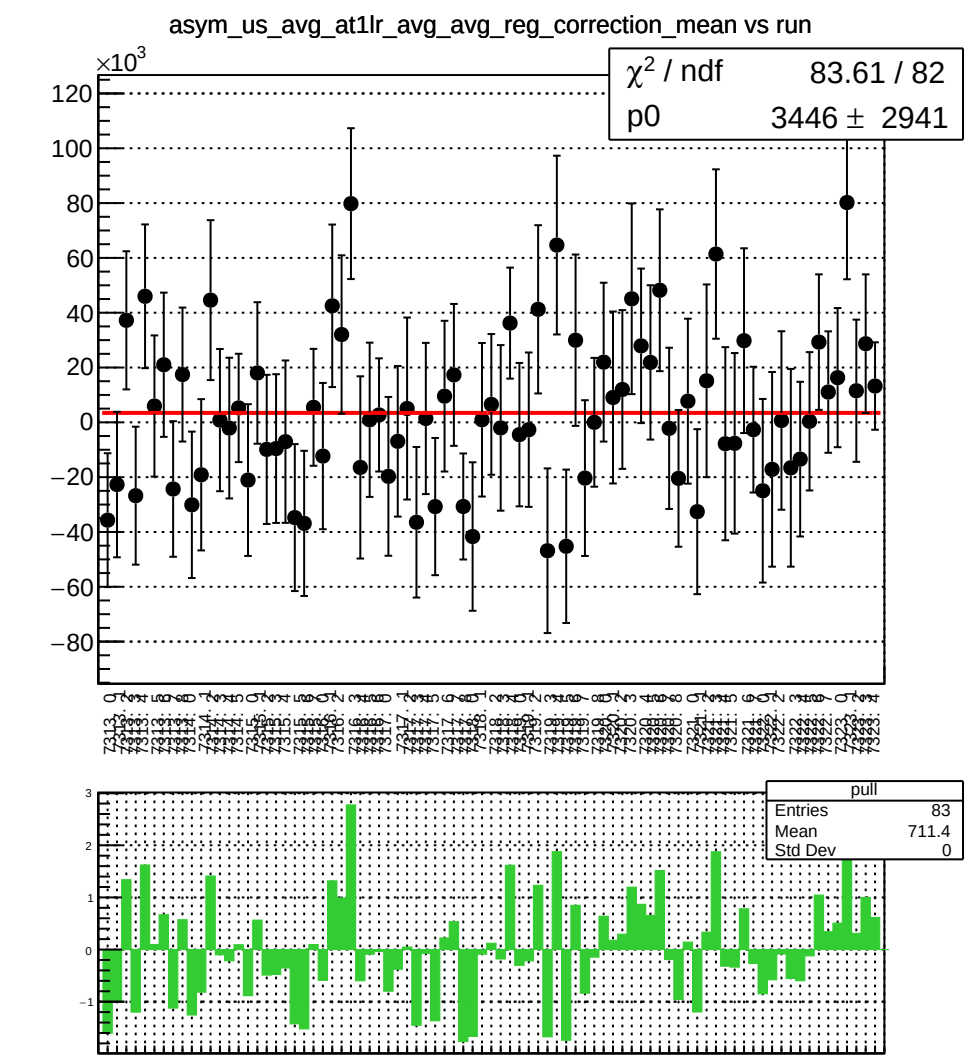

pull1D
Entries 83
Mean 0.01369
Std Dev 1.023

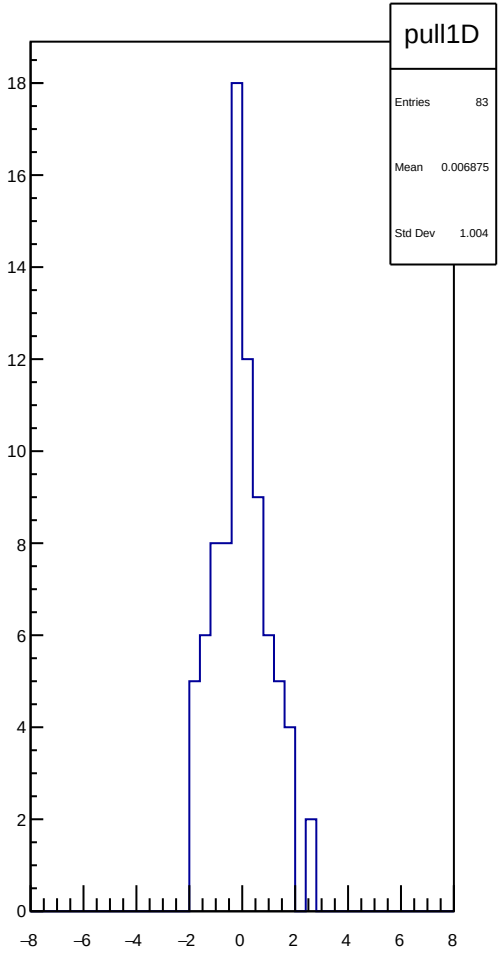

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.667e+05 / 82
p0 7.033e−11 ± 6.573e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

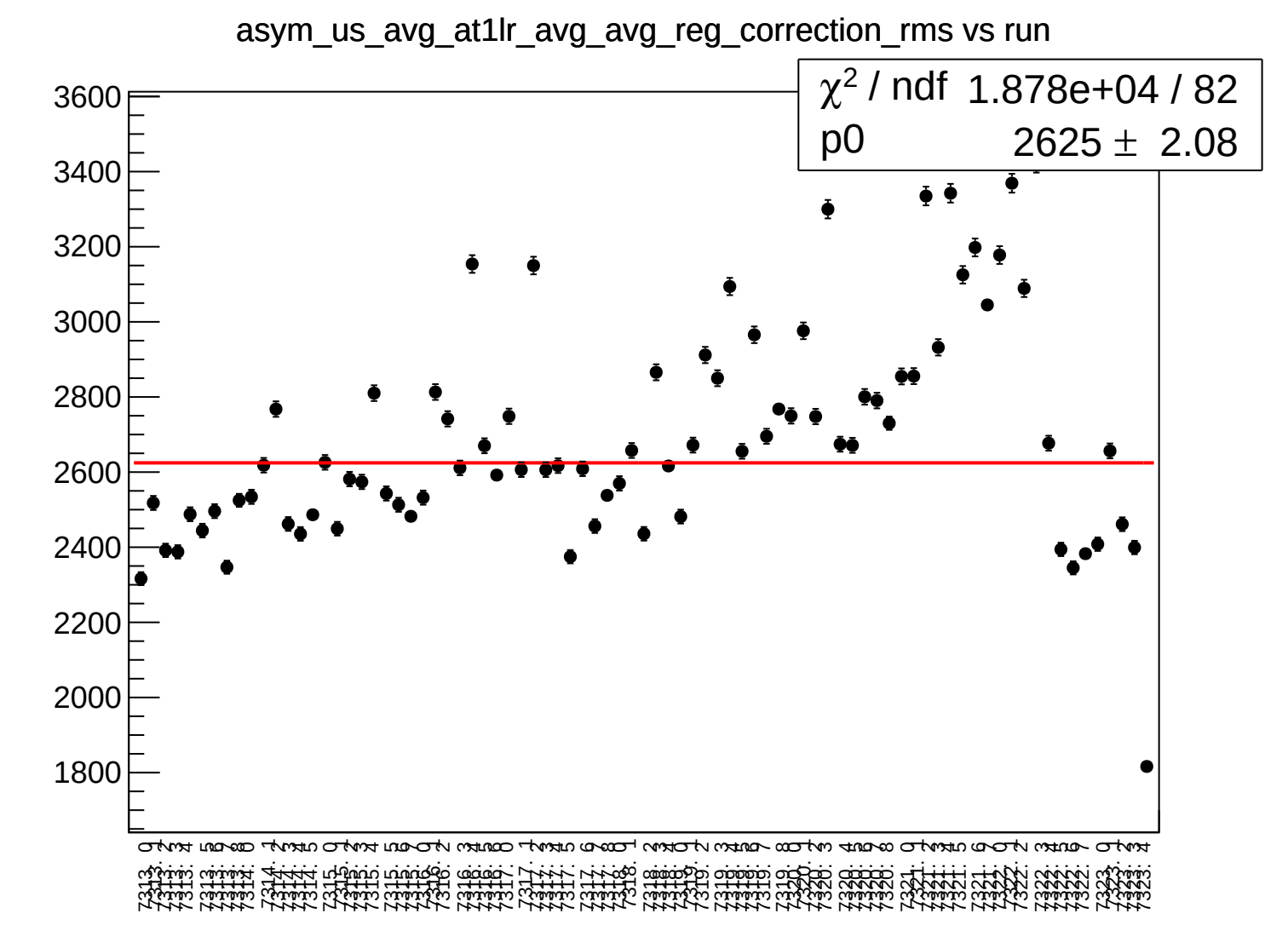

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 96.88 / 82
p0 1689 ± 2436
pull
Entries 83
Mean −1111
Std Dev 0

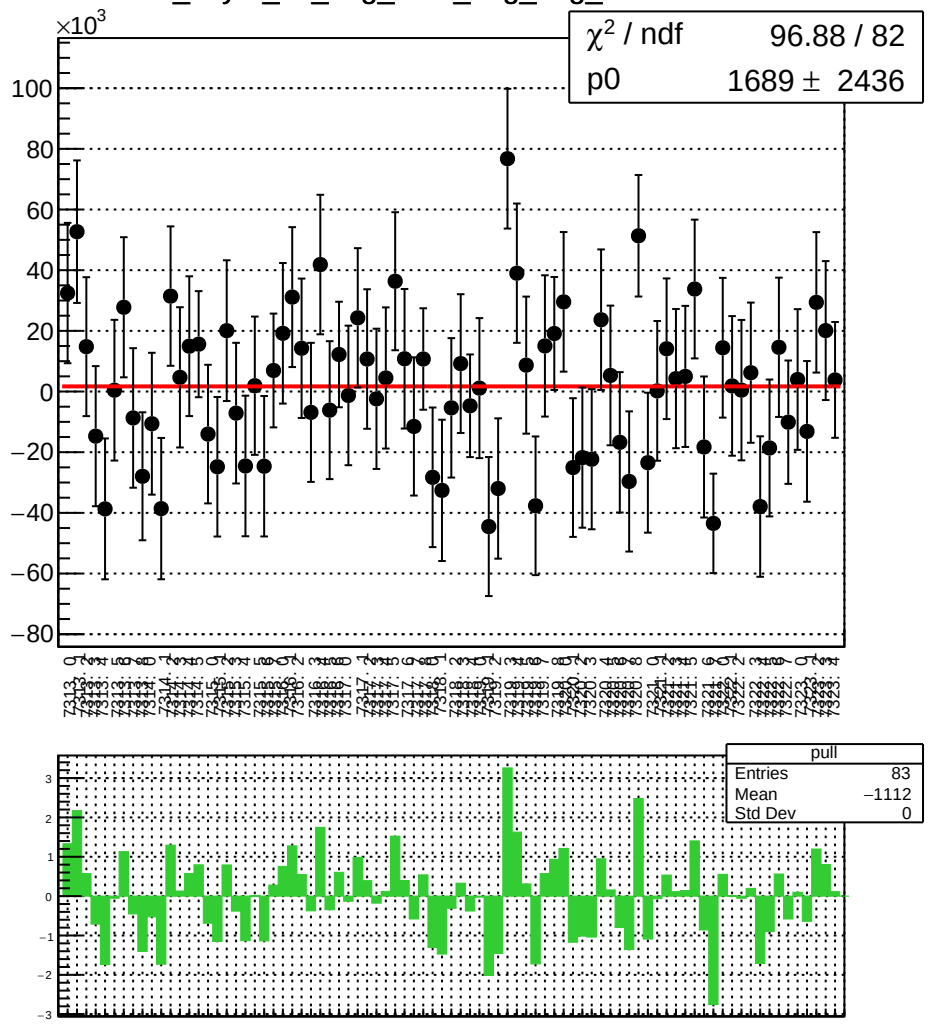

pull1D
Entries 83
Mean 0.001277
Std Dev 1.08

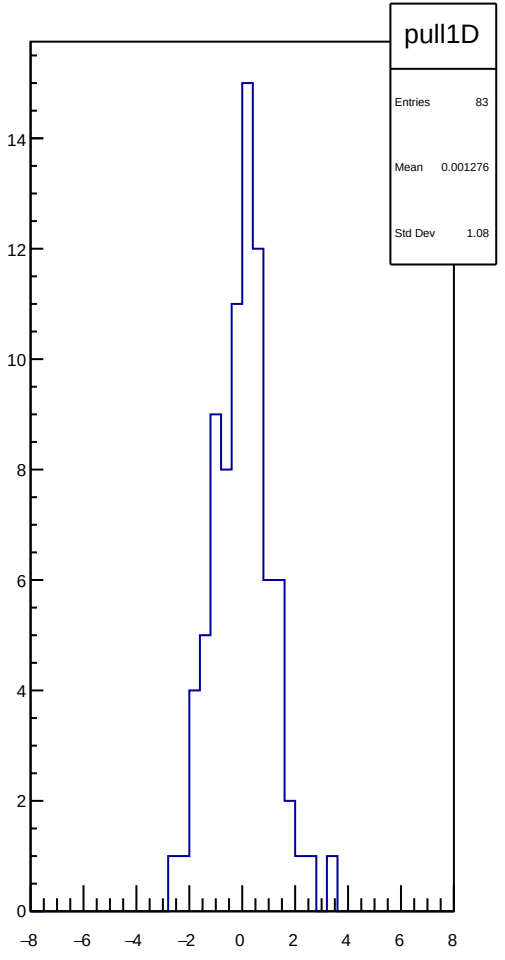

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 71.8 / 82
p0 2186 ± 1.722
2240
2220
2200
2180
2160
2140
2120

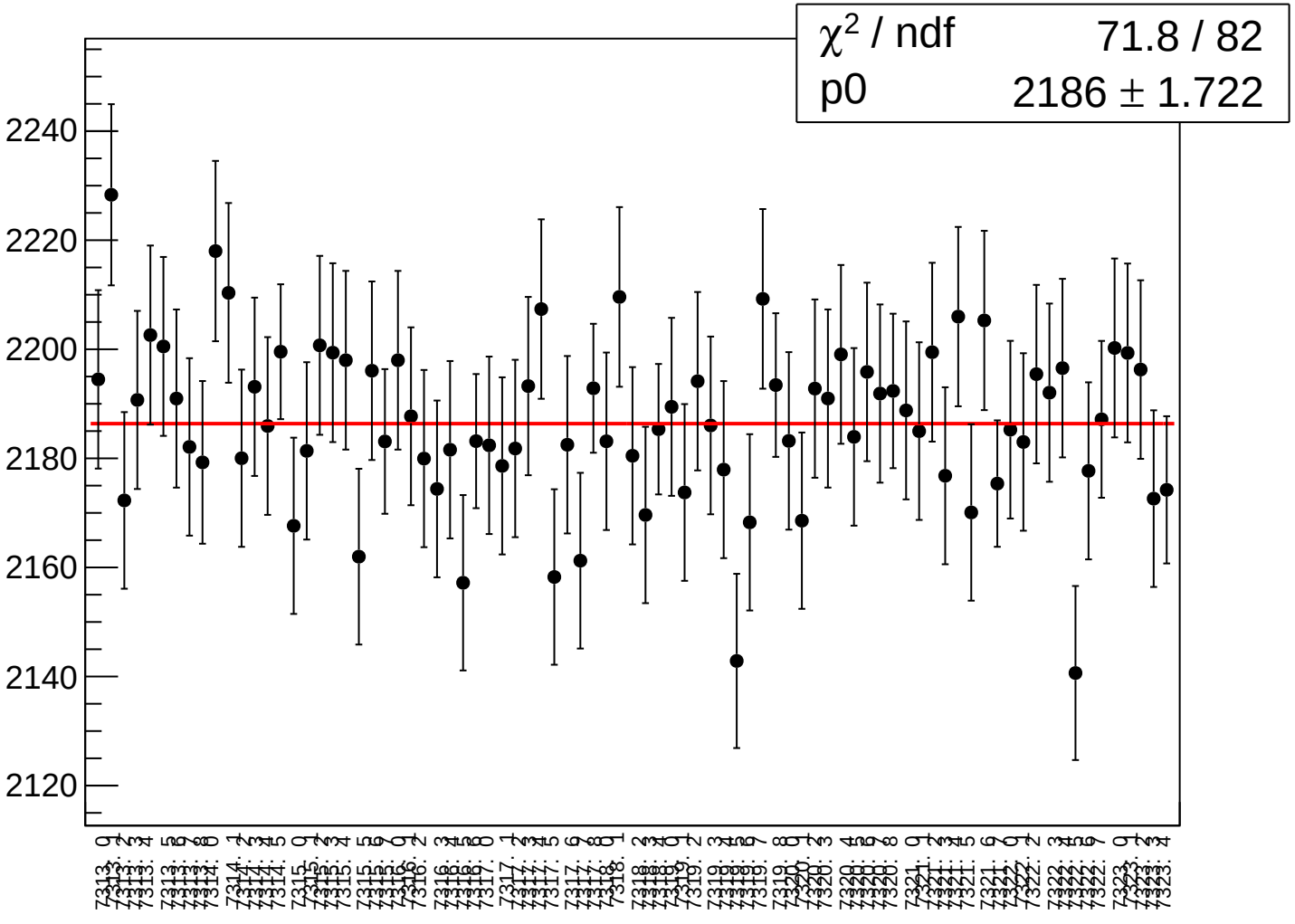

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.61 / 82
p0 3446 ± 2941
pull
Entries 83
Mean 711.4
Std Dev 0

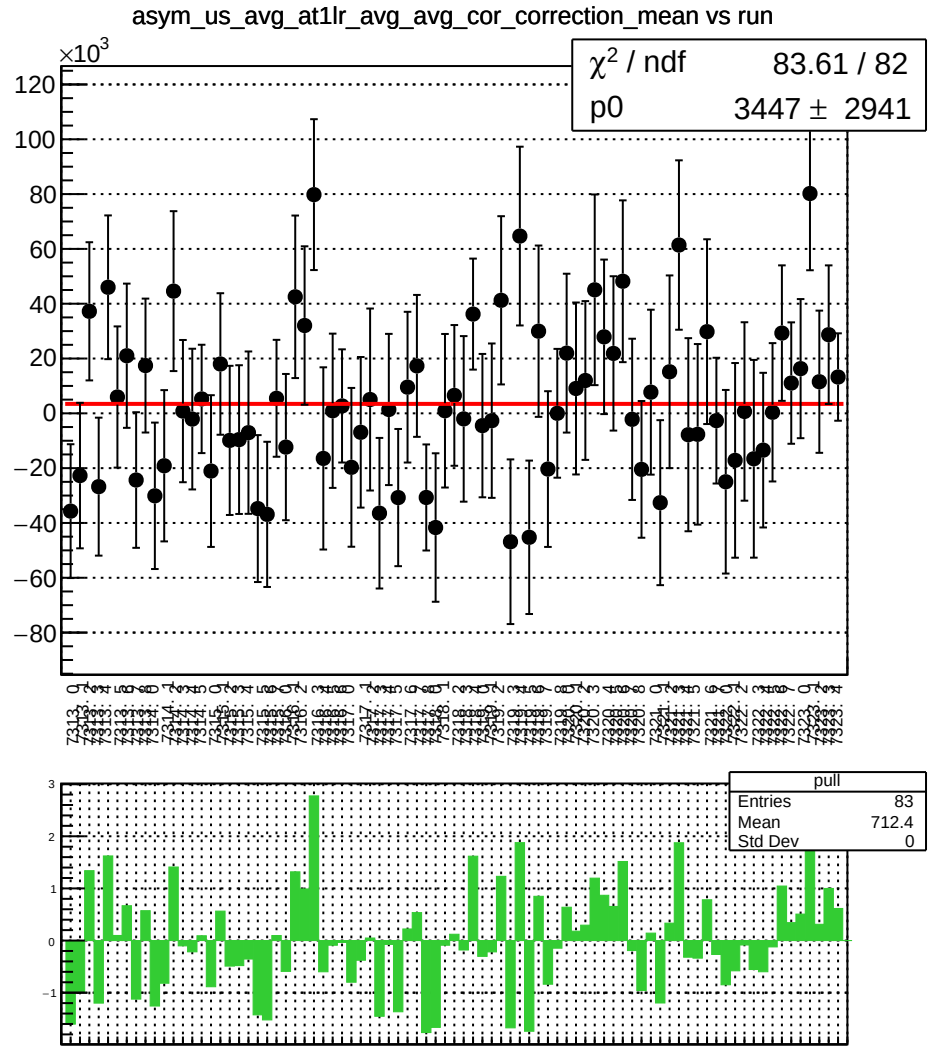

pull1D
Entries 83
Mean 0.006875
Std Dev 1.004

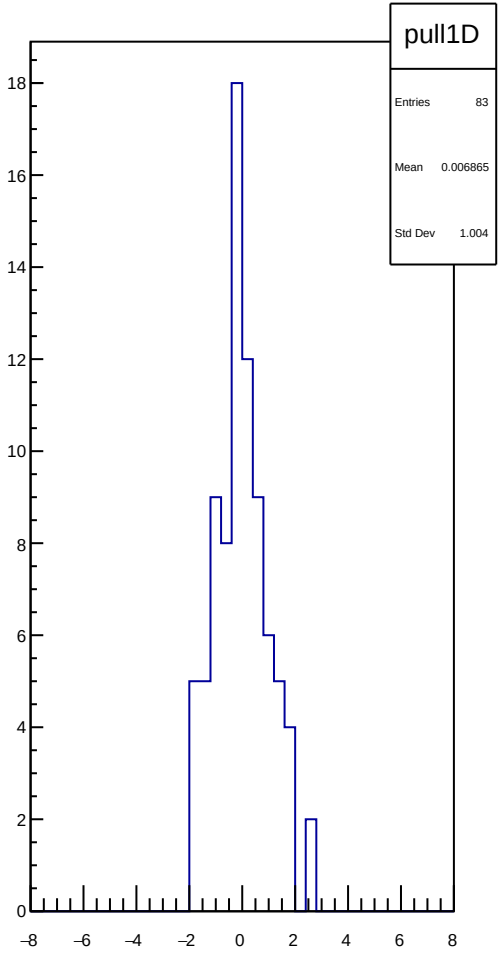

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.878e+04 / 82
p0 2625 ± 2.08
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

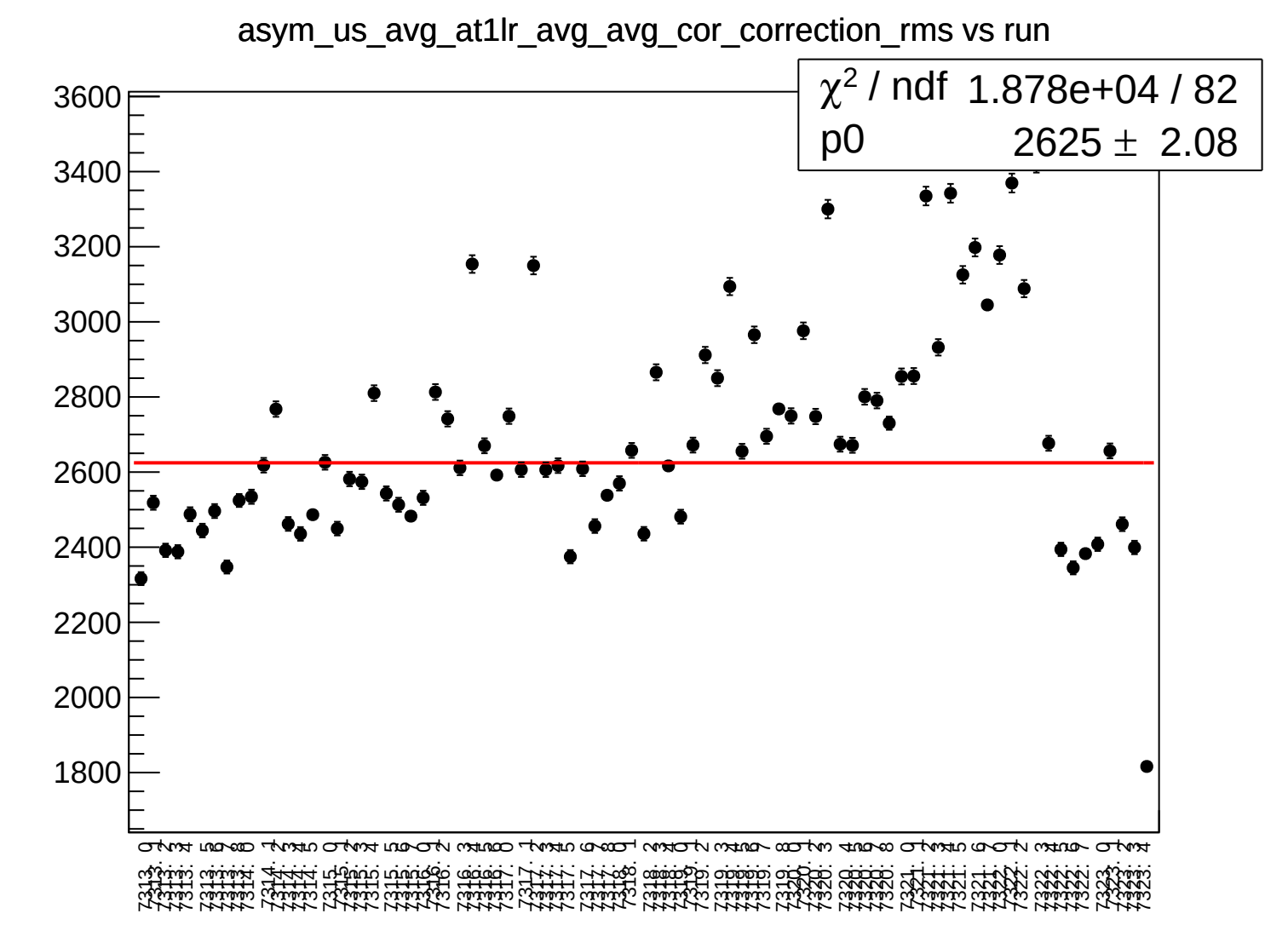

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 96.88 / 82
p0 1689 ± 2436
pull
Entries 83
Mean −1112
Std Dev 0

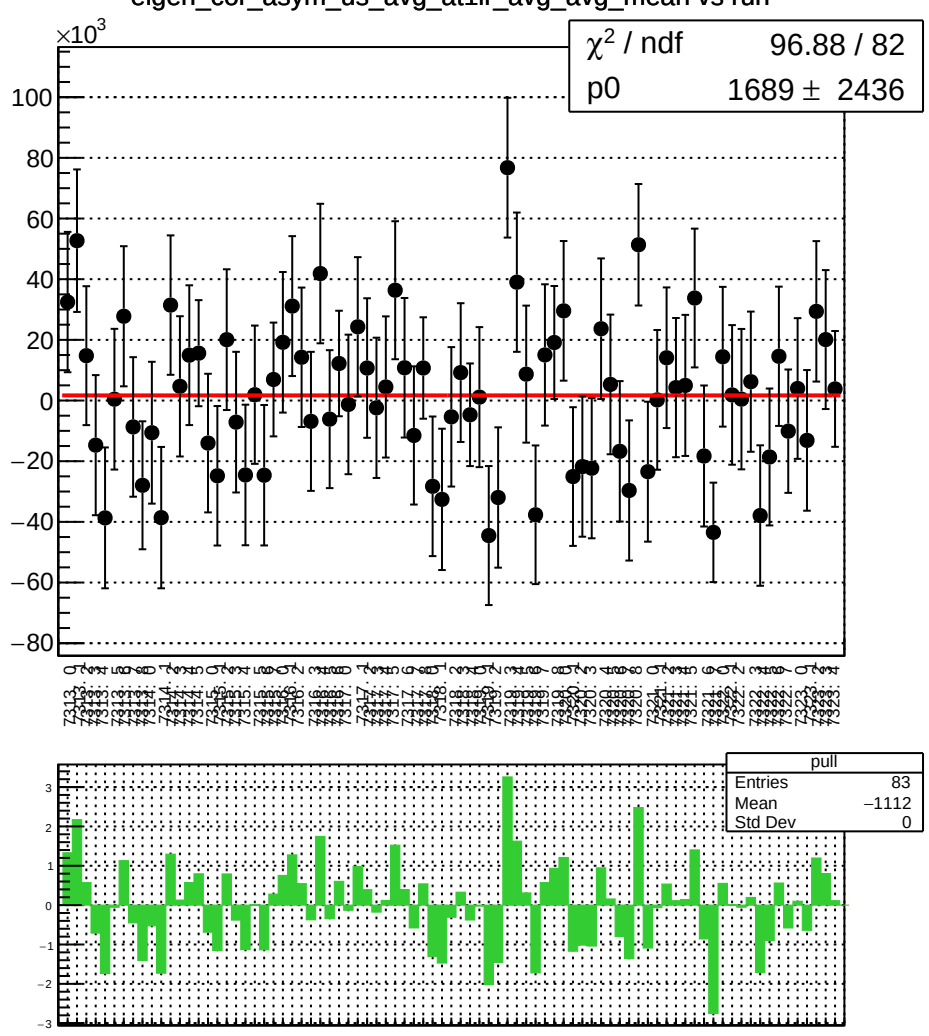

pull1D
Entries 83
Mean 0.001276
Std Dev 1.08

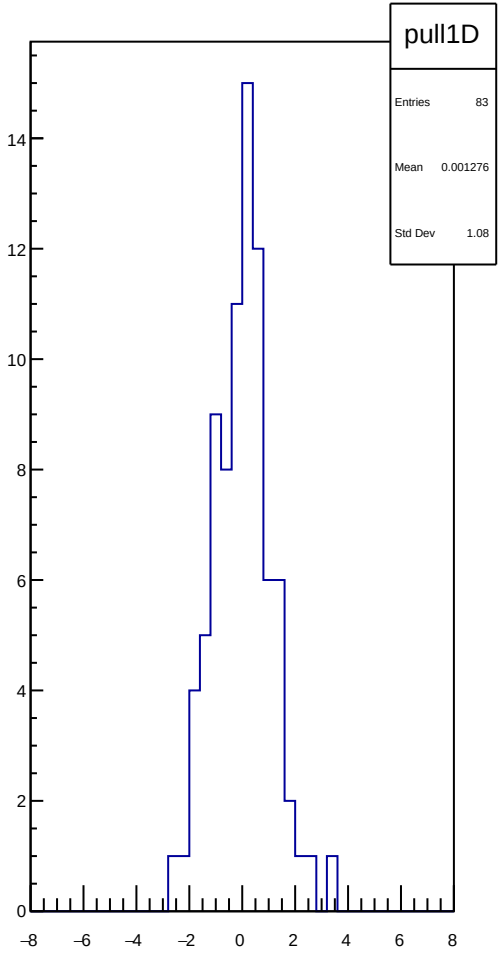

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 71.8 / 82
p0 2186 ± 1.722
2240
2220
2200
2180
2160
2140
2120

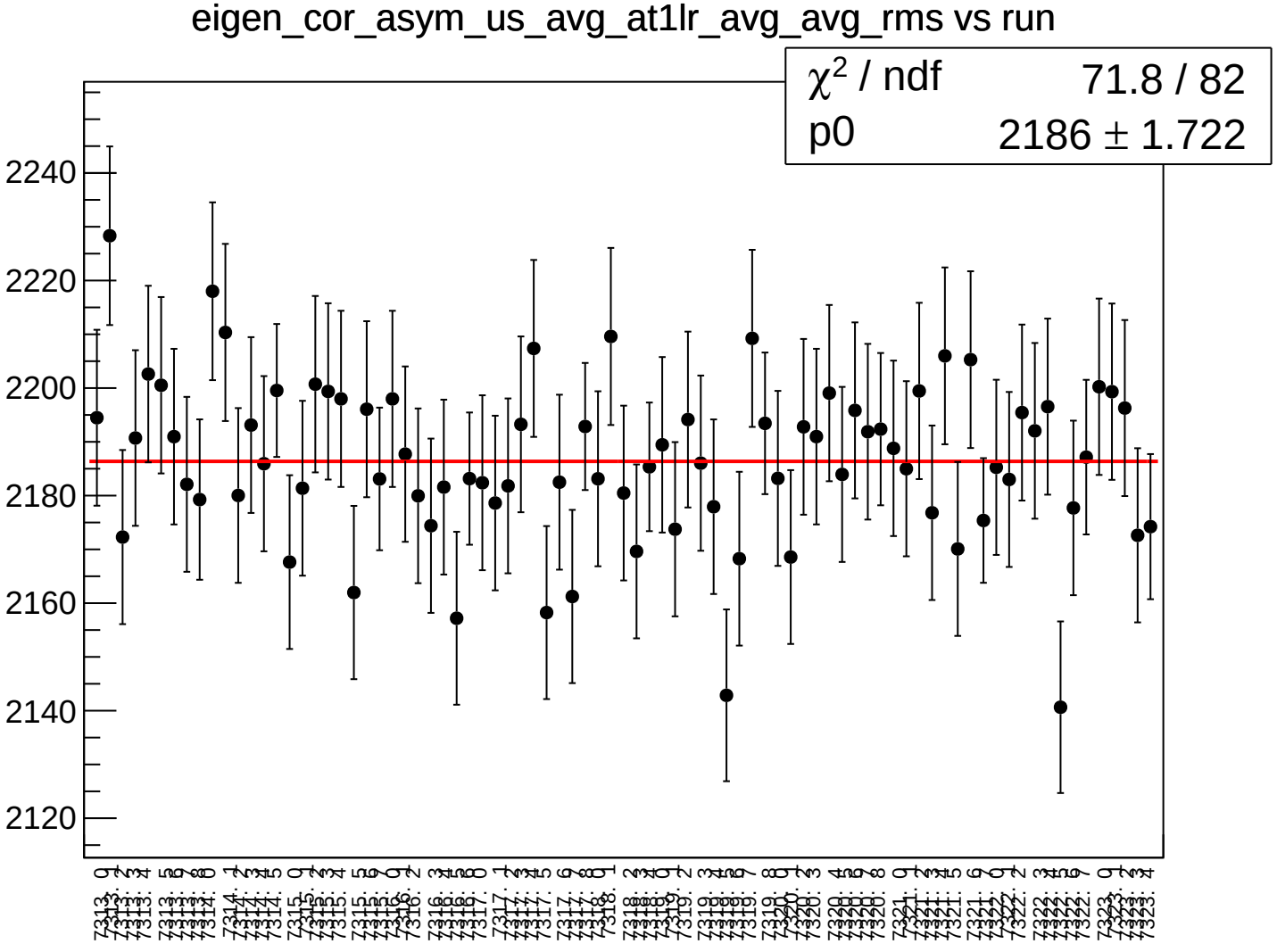

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.61 / 82
p0 3447 ± 2941
pull
Entries 83
Mean 712.4
Std Dev 0

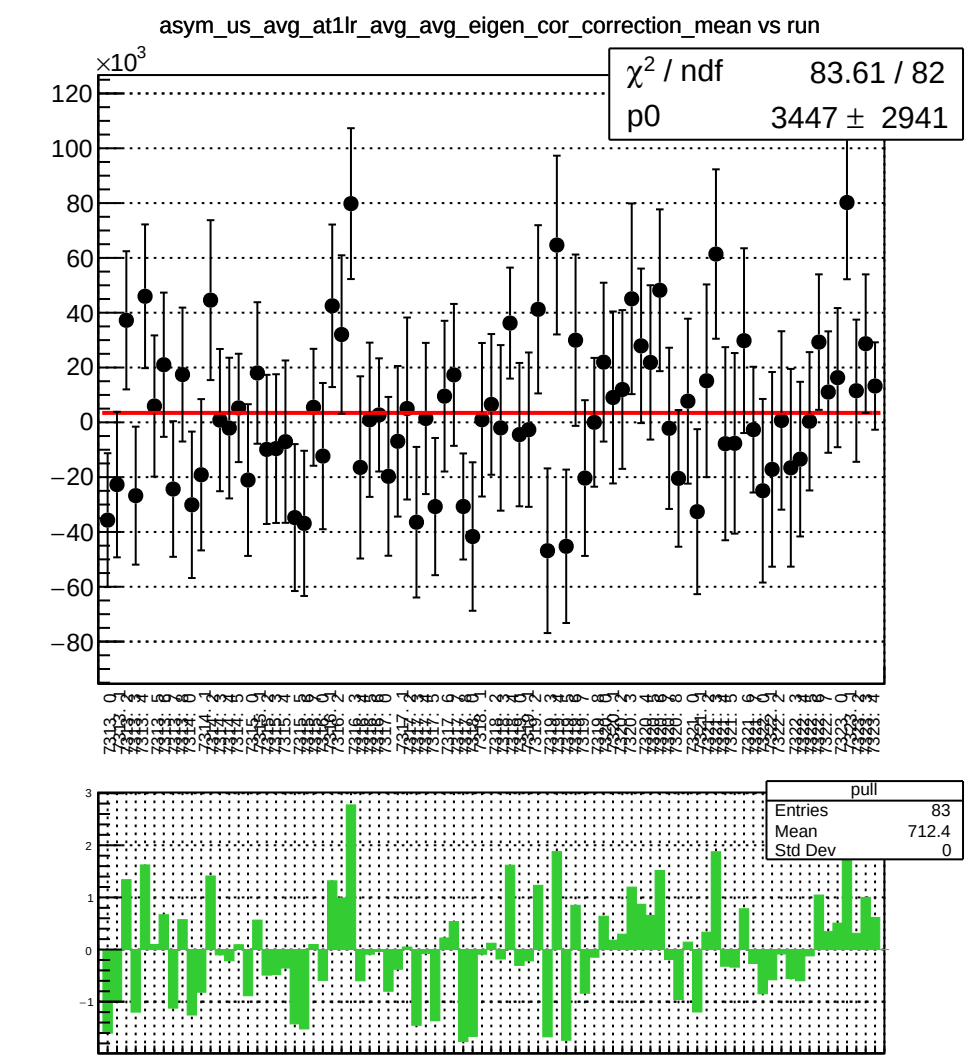

pull1D
Entries 83
Mean 0.006865
Std Dev 1.004

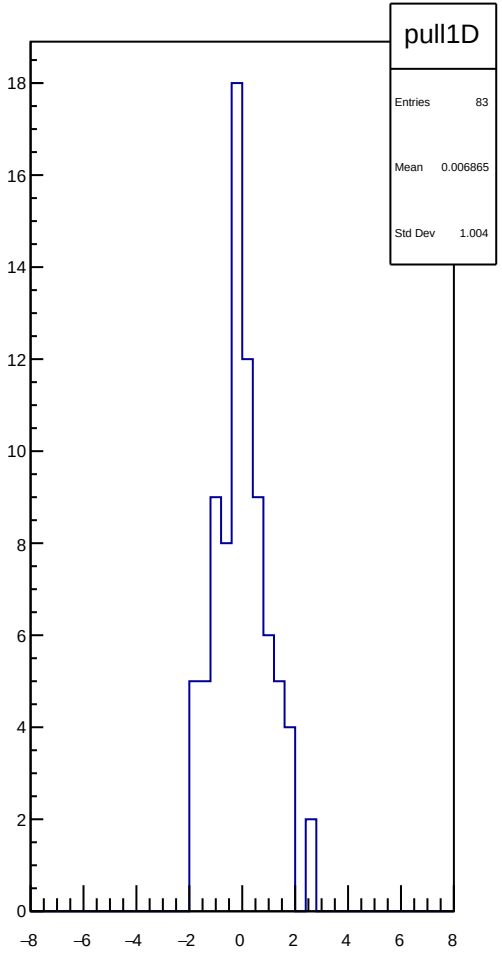

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.878e+04 / 82
p0 2625 ± 2.08
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

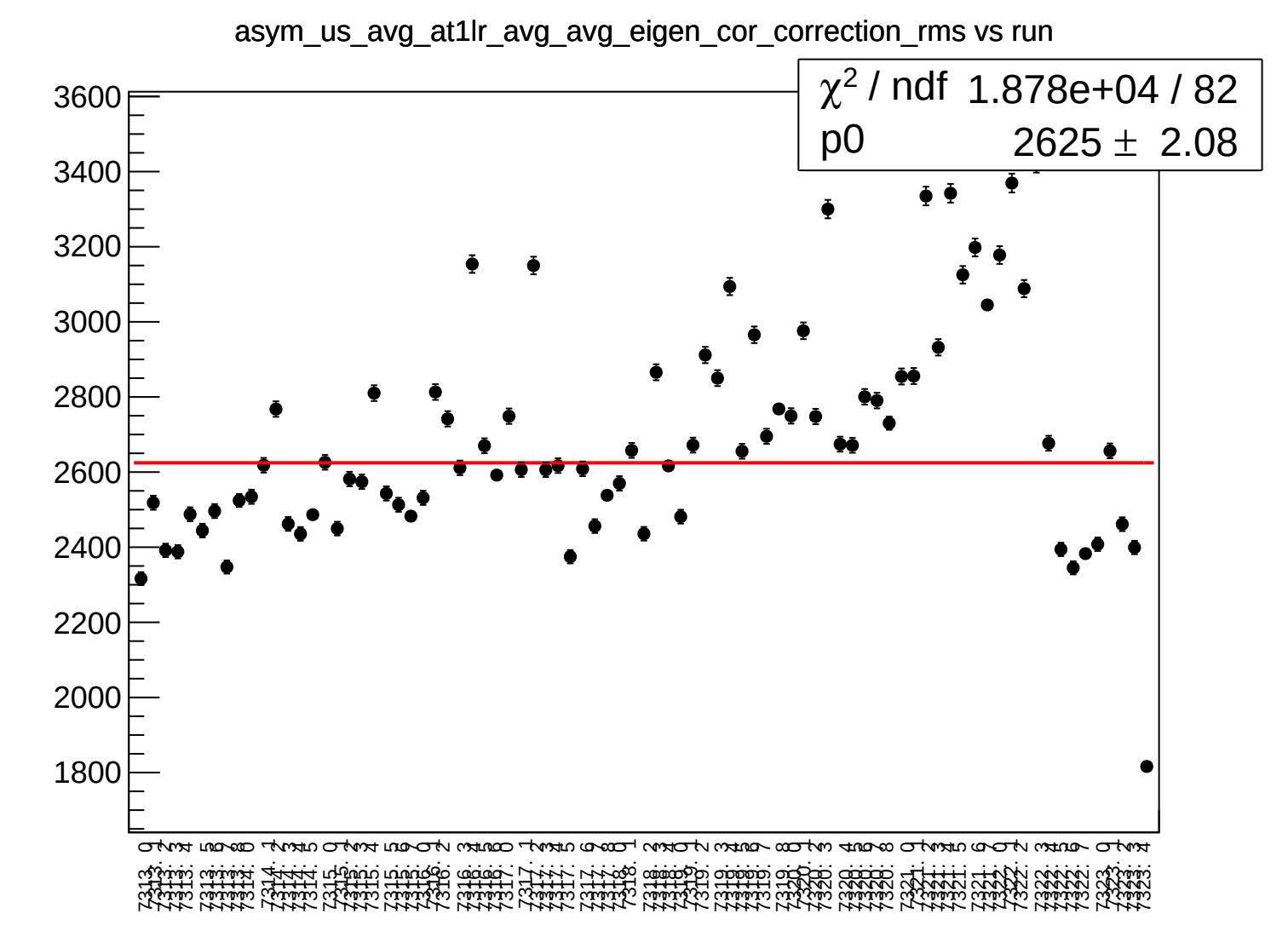

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 96.88 / 82
p0 1689 ± 2436
pull
Entries 83
Mean −1112
Std Dev 0

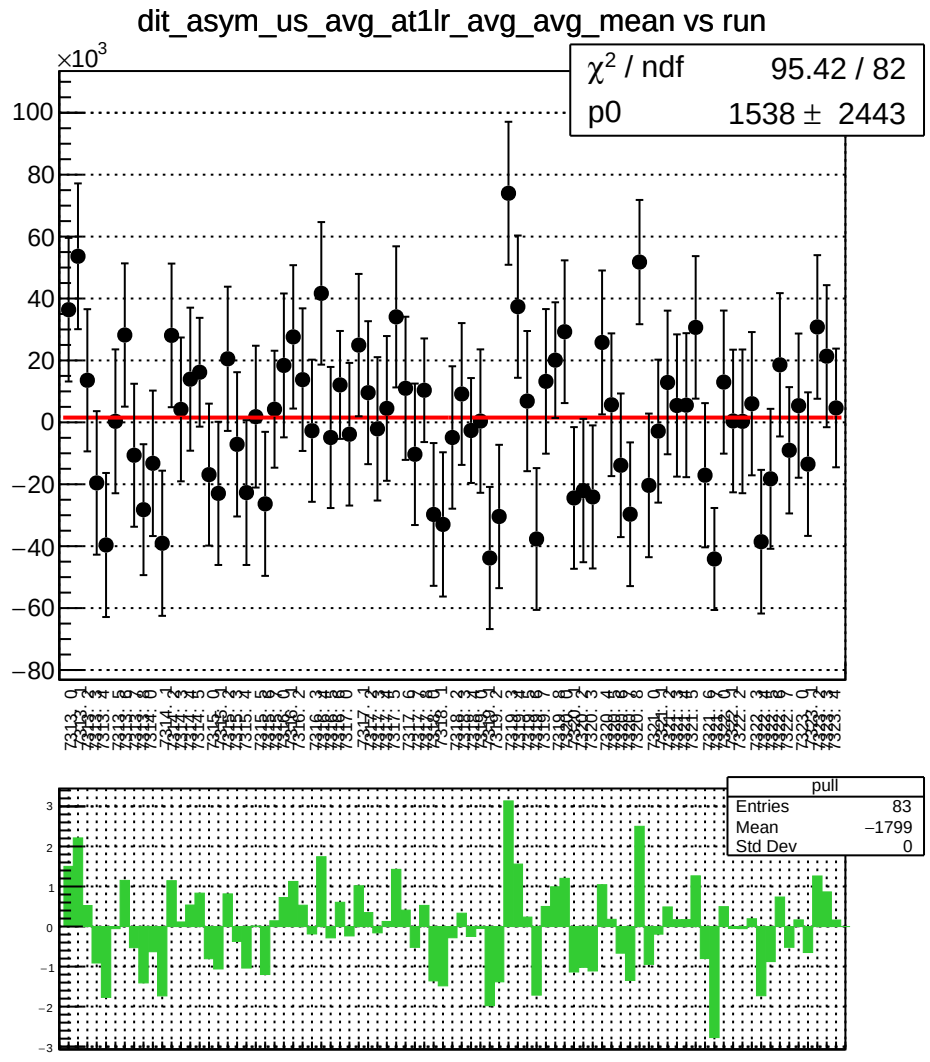

pull1D
Entries 83
Mean 0.001276
Std Dev 1.08

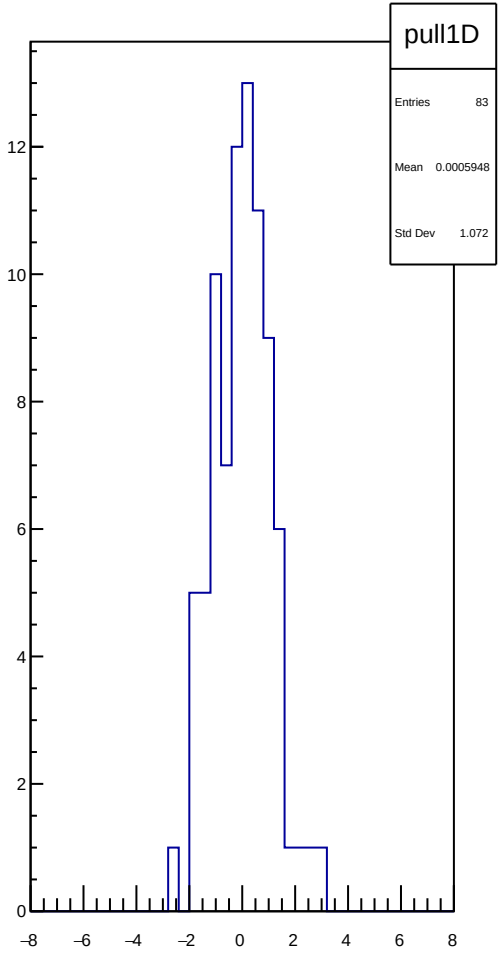

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 71.8 / 82
p0 2186 ± 1.722
2240
2220
2200
2180
2160
2140
2120

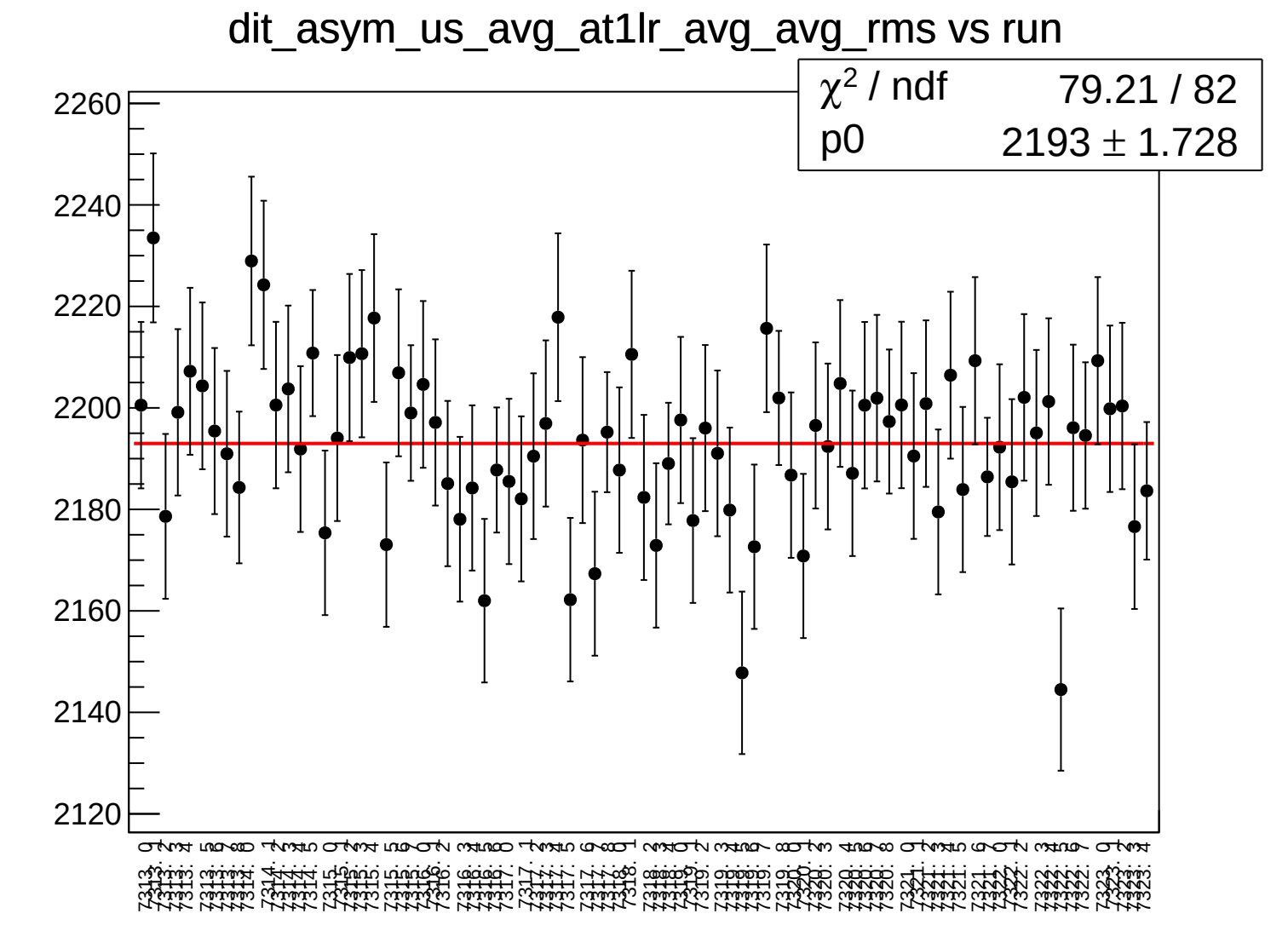

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.61 / 82
p0 3447 ± 2941
pull
Entries 83
Mean 712.4
Std Dev 0

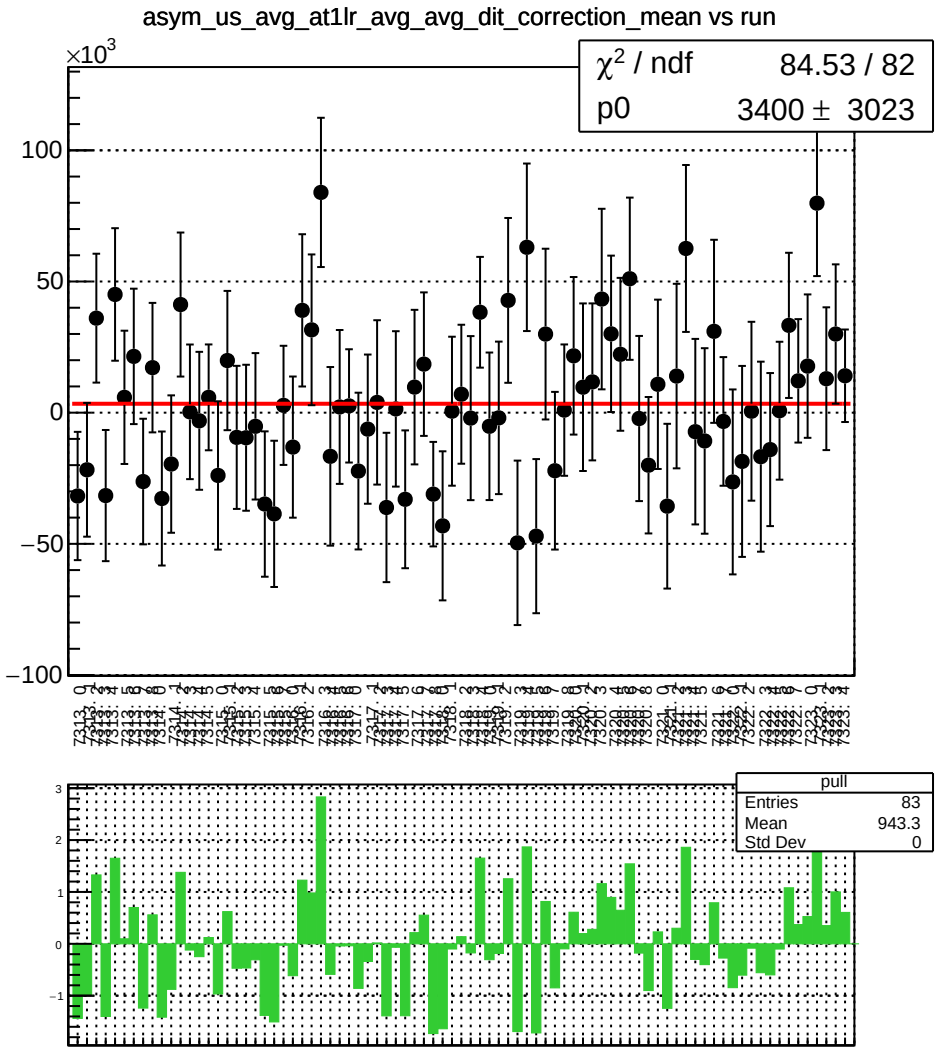

pull1D
Entries 83
Mean 0.006865
Std Dev 1.004

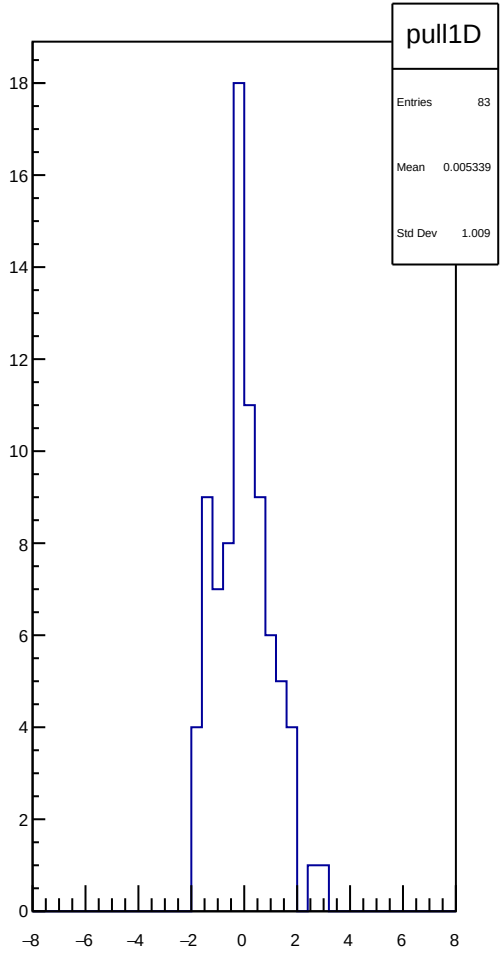

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.878e+04 / 82
p0 2625 ± 2.08
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

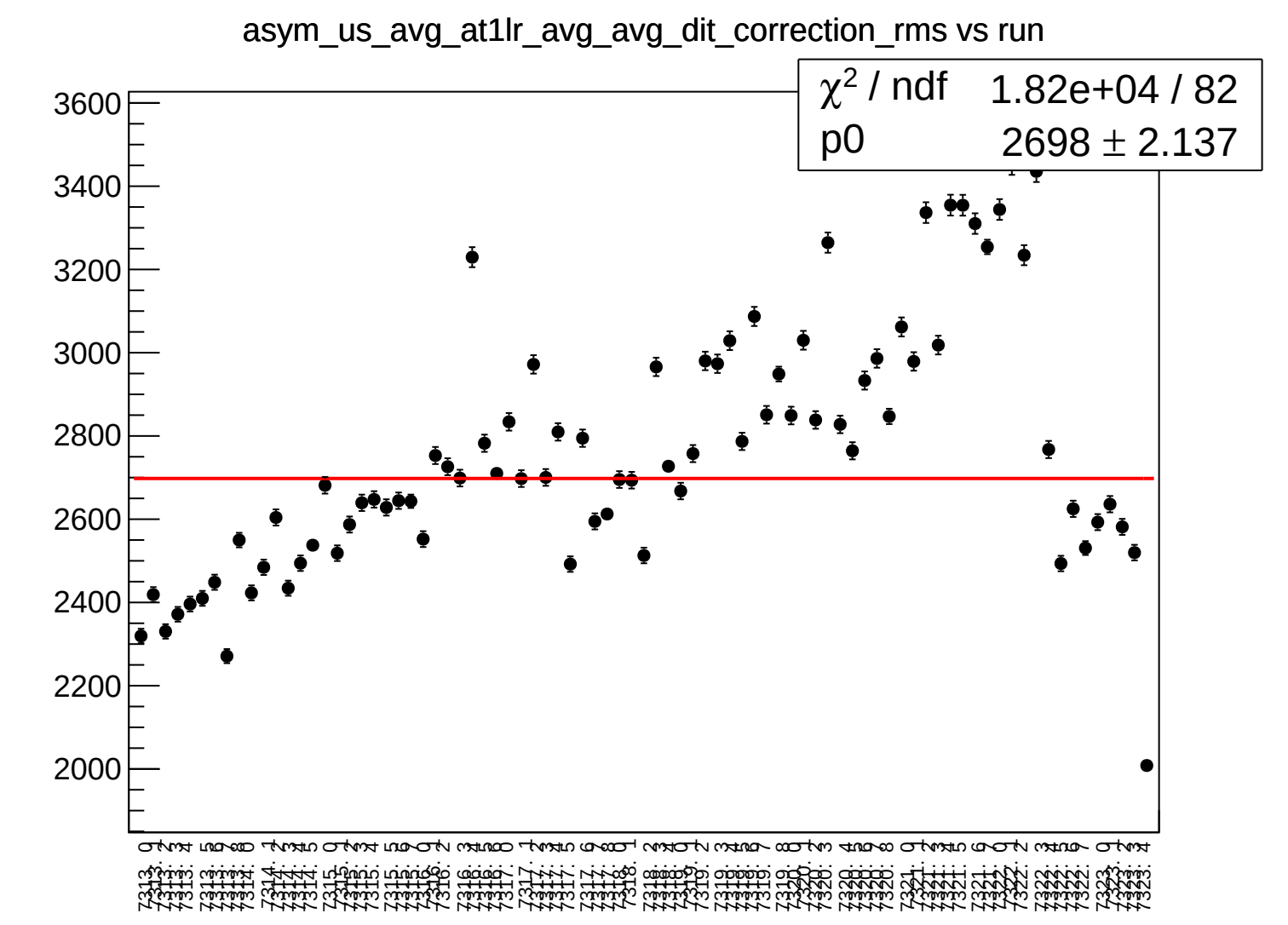

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 95.42 / 82
p0 1538 ± 2443
pull
Entries 83
Mean −1799
Std Dev 0

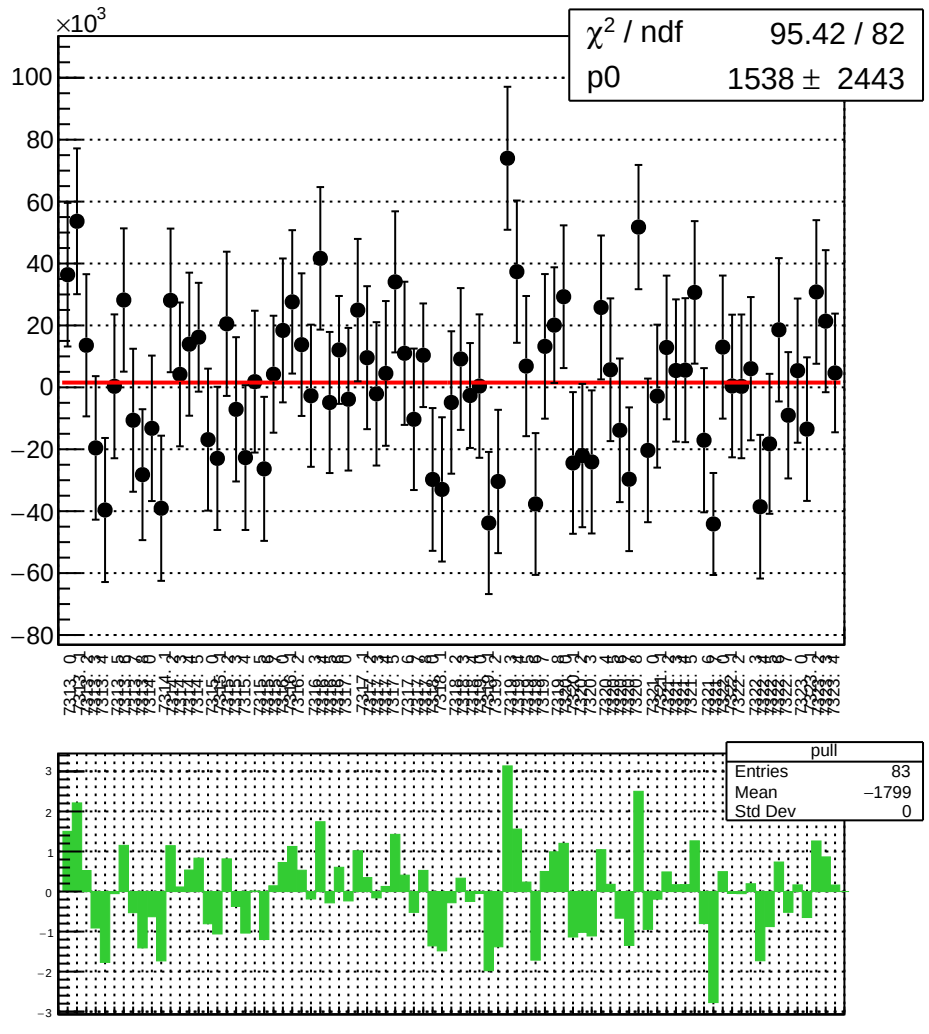

pull1D
Entries 83
Mean 0.0005948
Std Dev 1.072

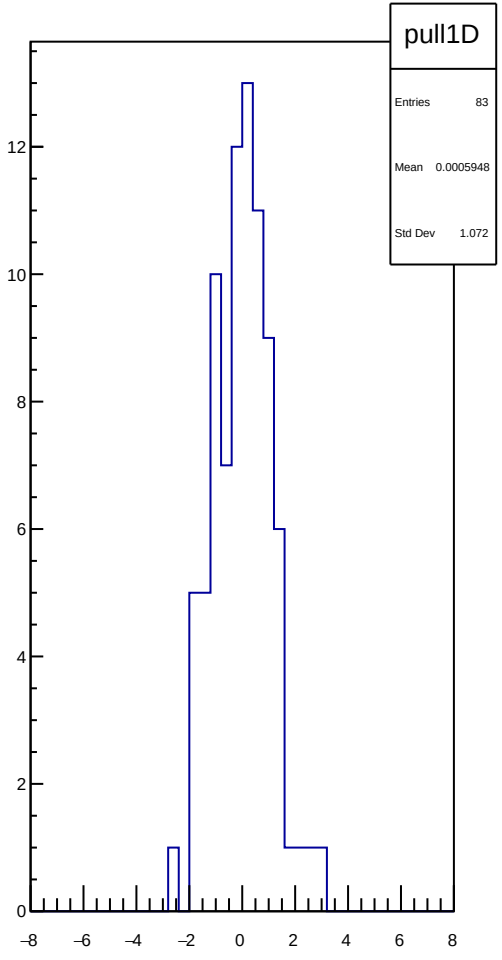

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 79.21 / 82
p0 2193 ± 1.728
2260
2240
2220
2200
2180
2160
2140
2120

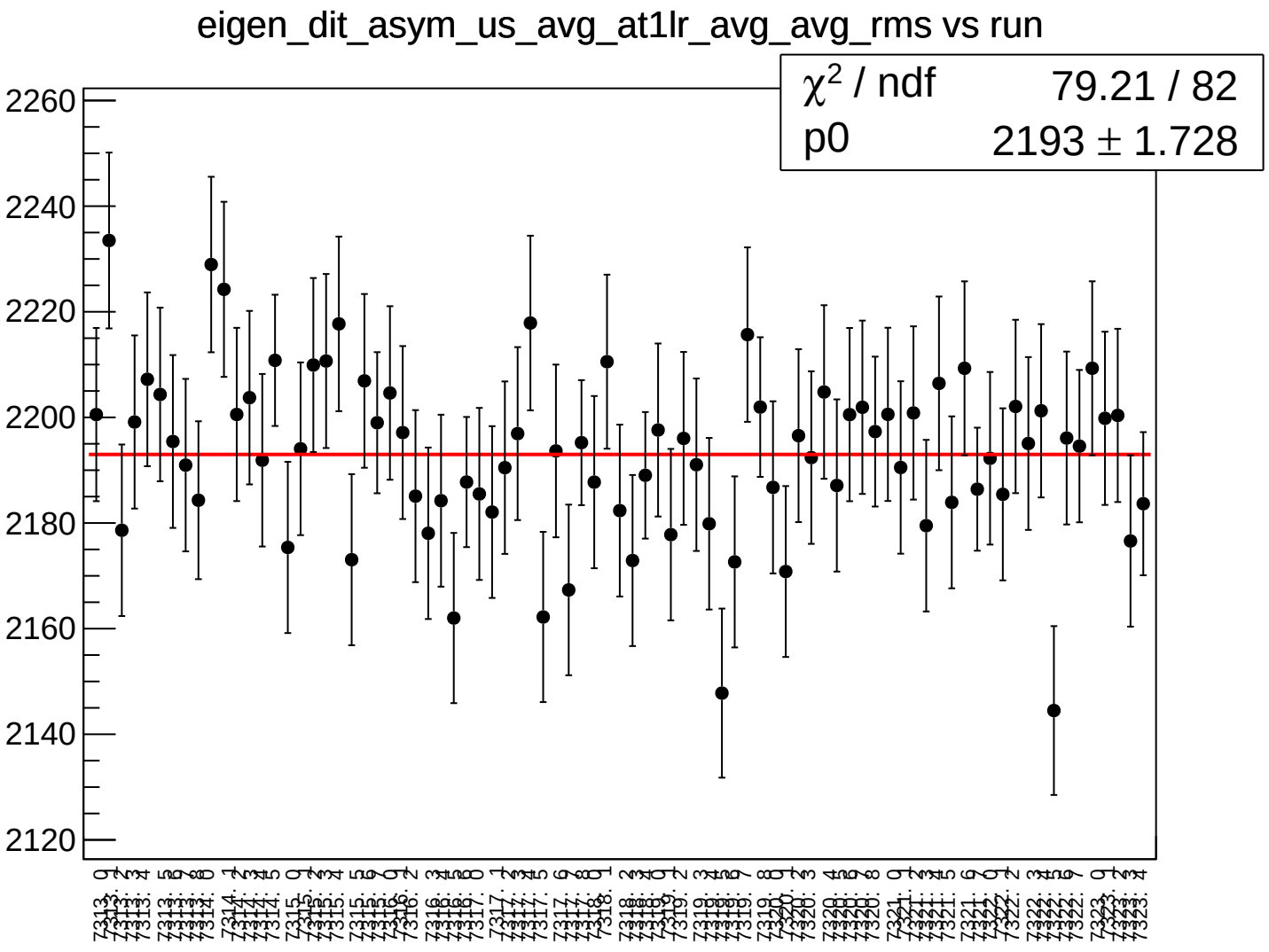

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.53 / 82
p0 3400 ± 3023
100
50
0
−50
−100
pull
Entries 83
Mean 943.3
Std Dev 0
3
2
1
0
−1

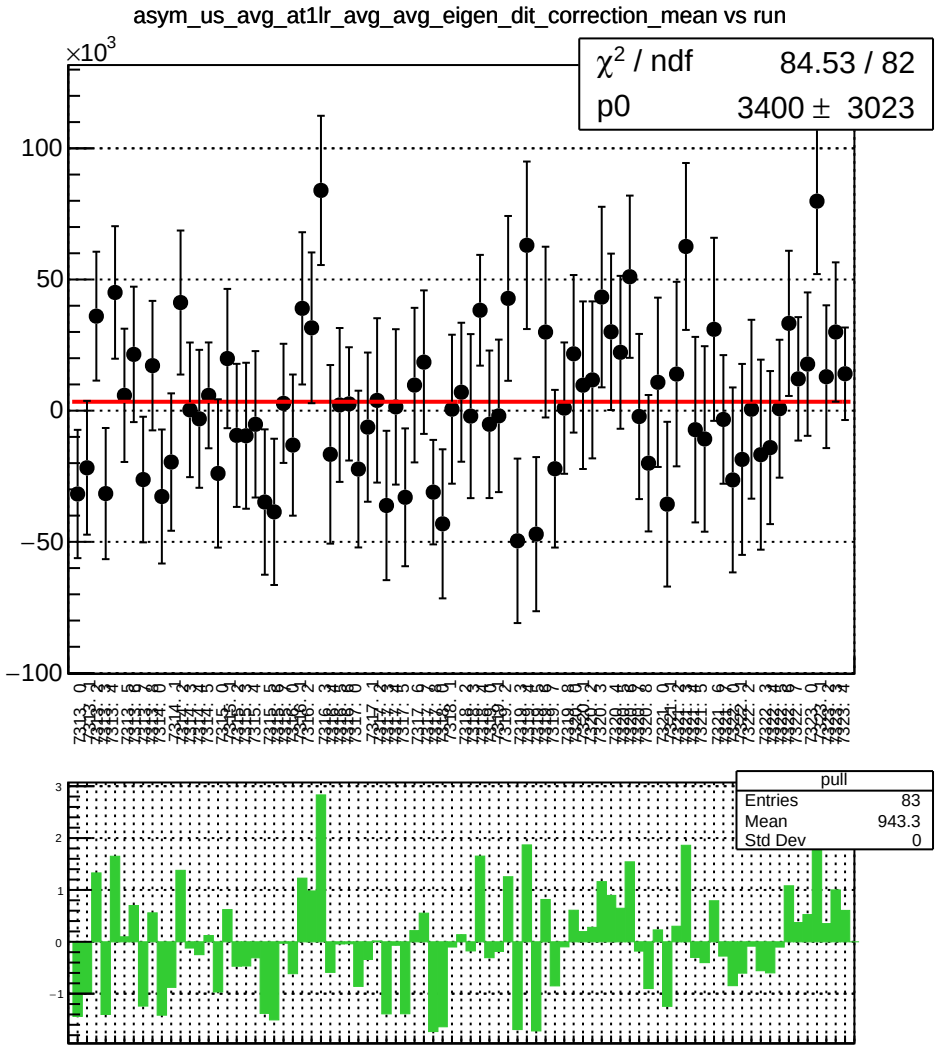

pull1D
Entries 83
Mean 0.005339
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

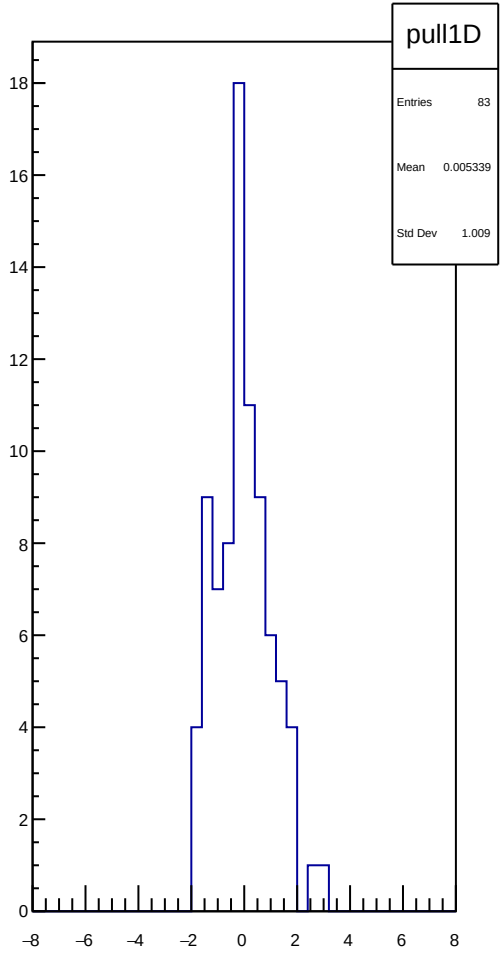

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 2698 ± 2.137
3600
3400
3200
3000
2800
2600
2400
2200
2000

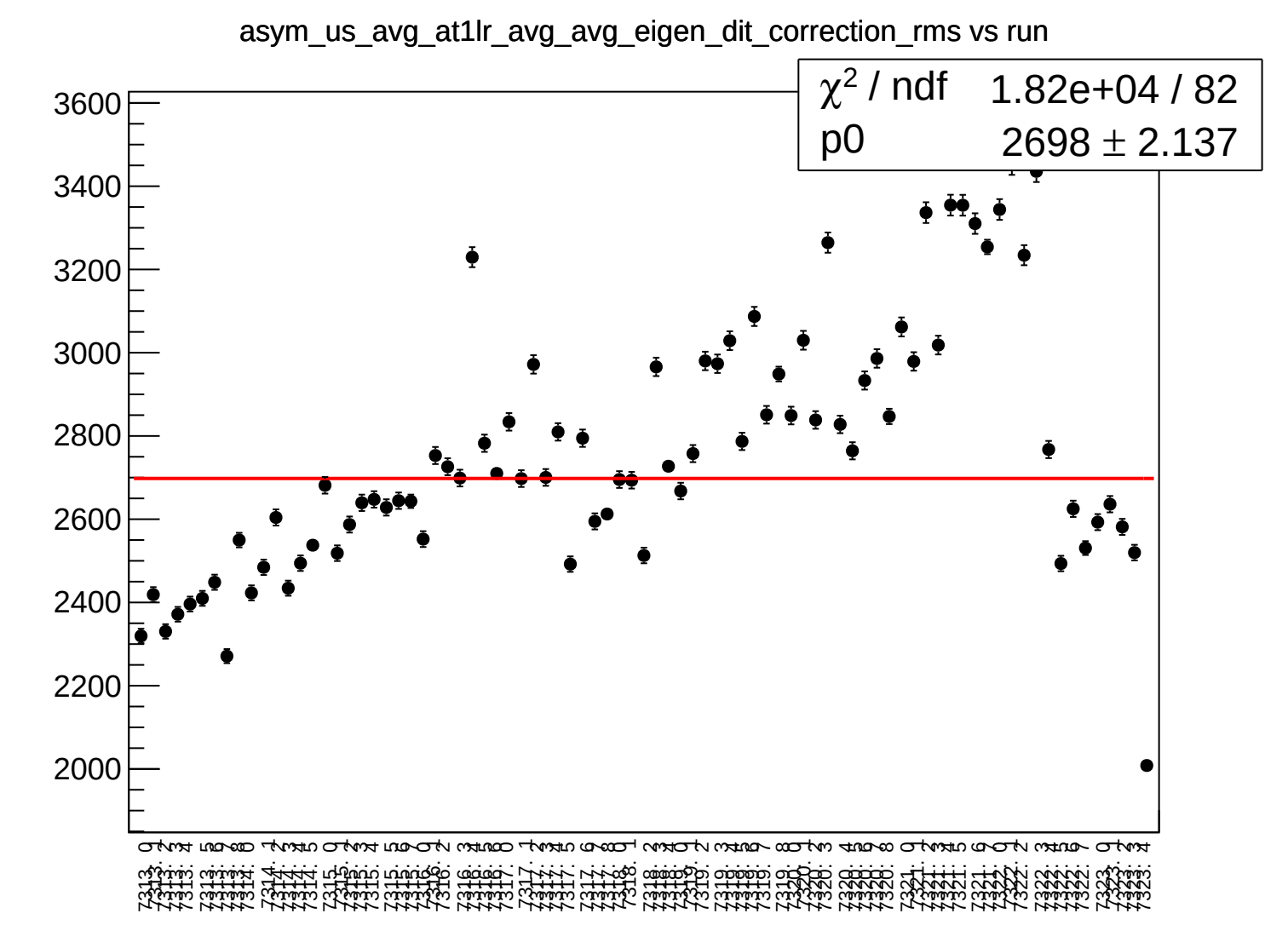

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 95.42 / 82
p0 1538 ± 2443
×10³
pull
Entries 83
Mean −1799
Std Dev 0

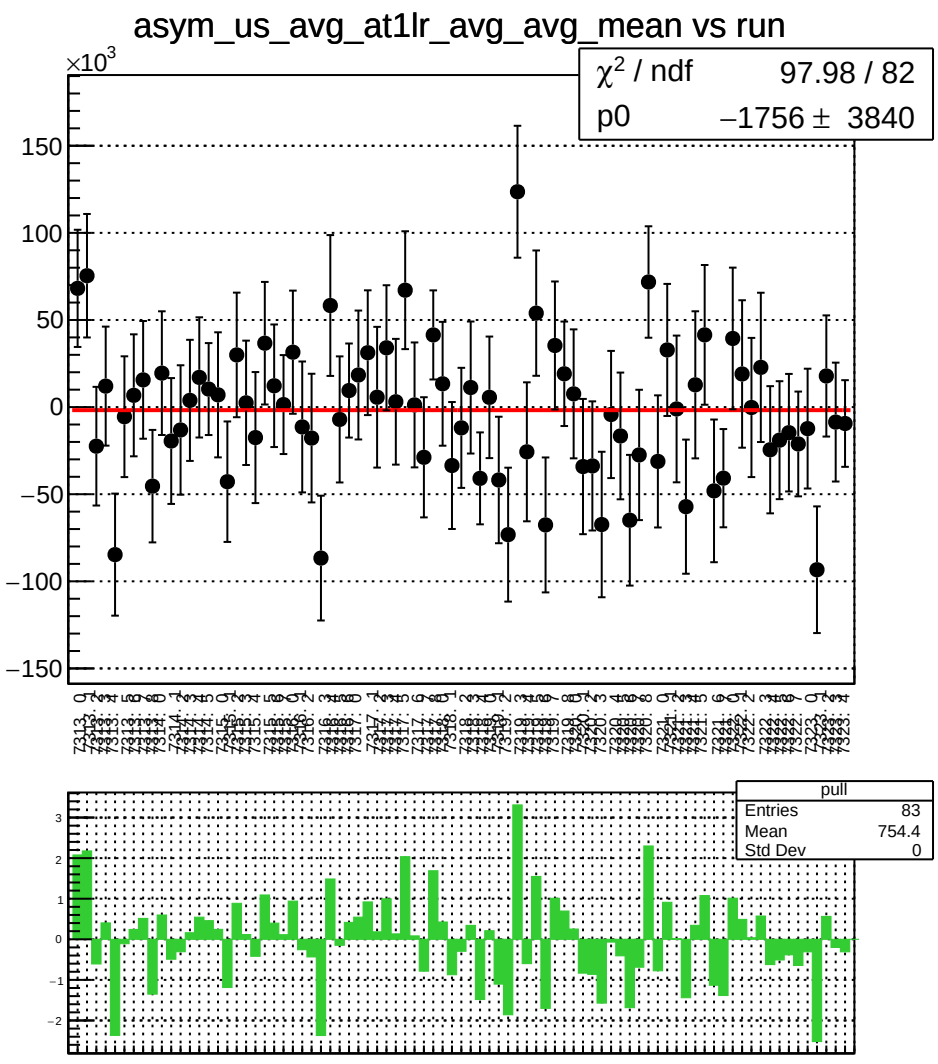

pull1D
Entries 83
Mean 0.0005948
Std Dev 1.072

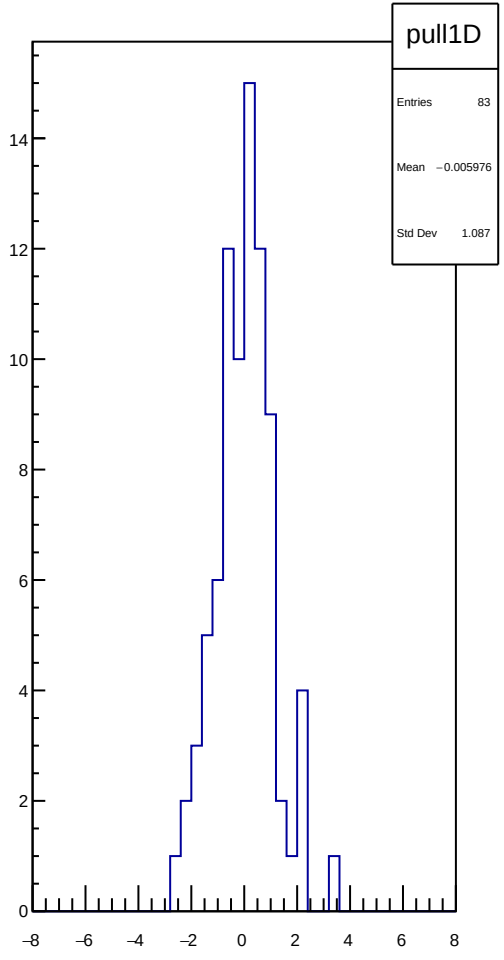

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 79.21 / 82
p0 2193 ± 1.728
2260
2240
2220
2200
2180
2160
2140
2120

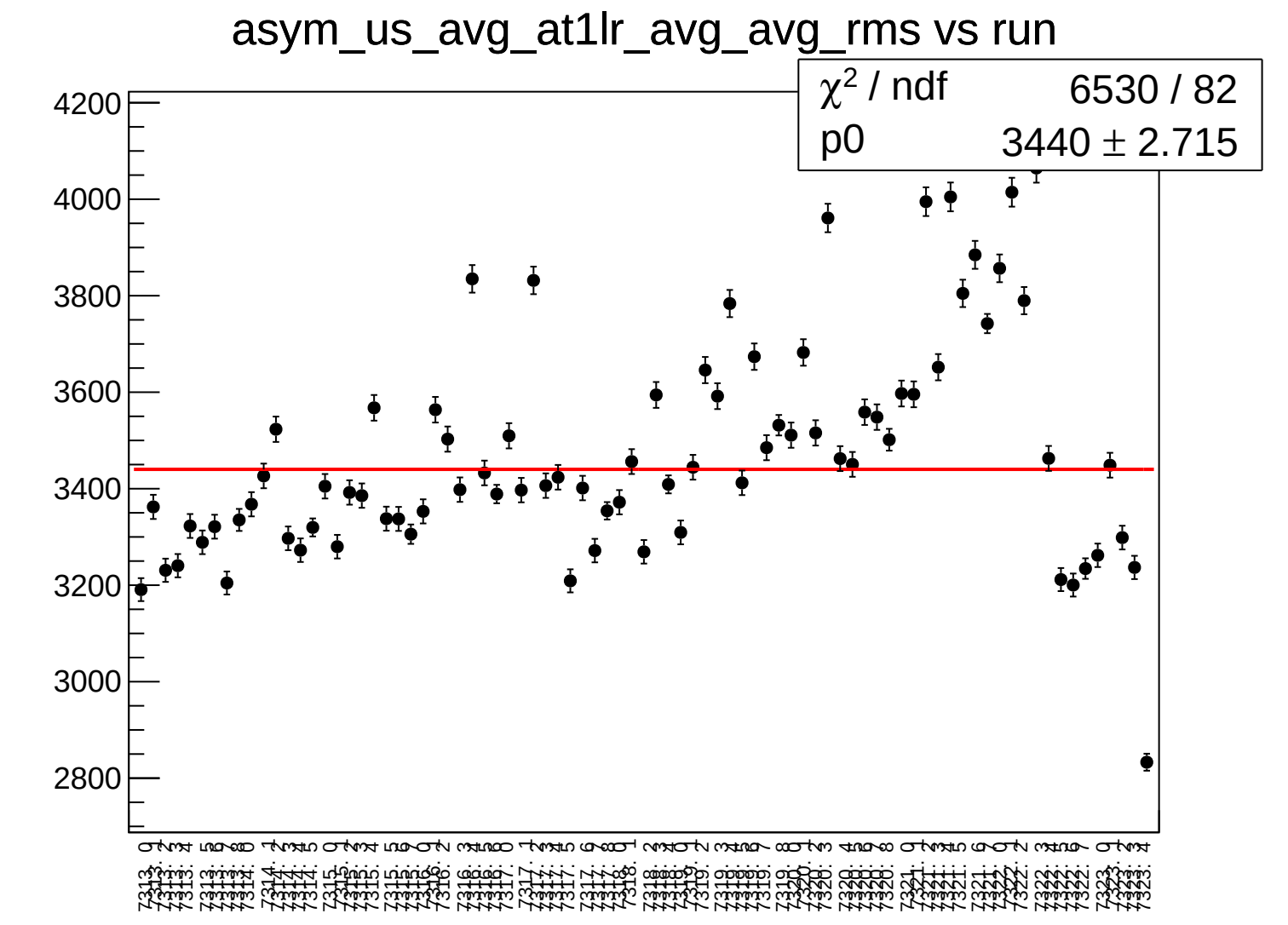

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.53 / 82
p0 3400 ± 3023
100
50
0
−50
−100
pull
Entries 83
Mean 943.3
Std Dev 0
3
2
1
0
−1

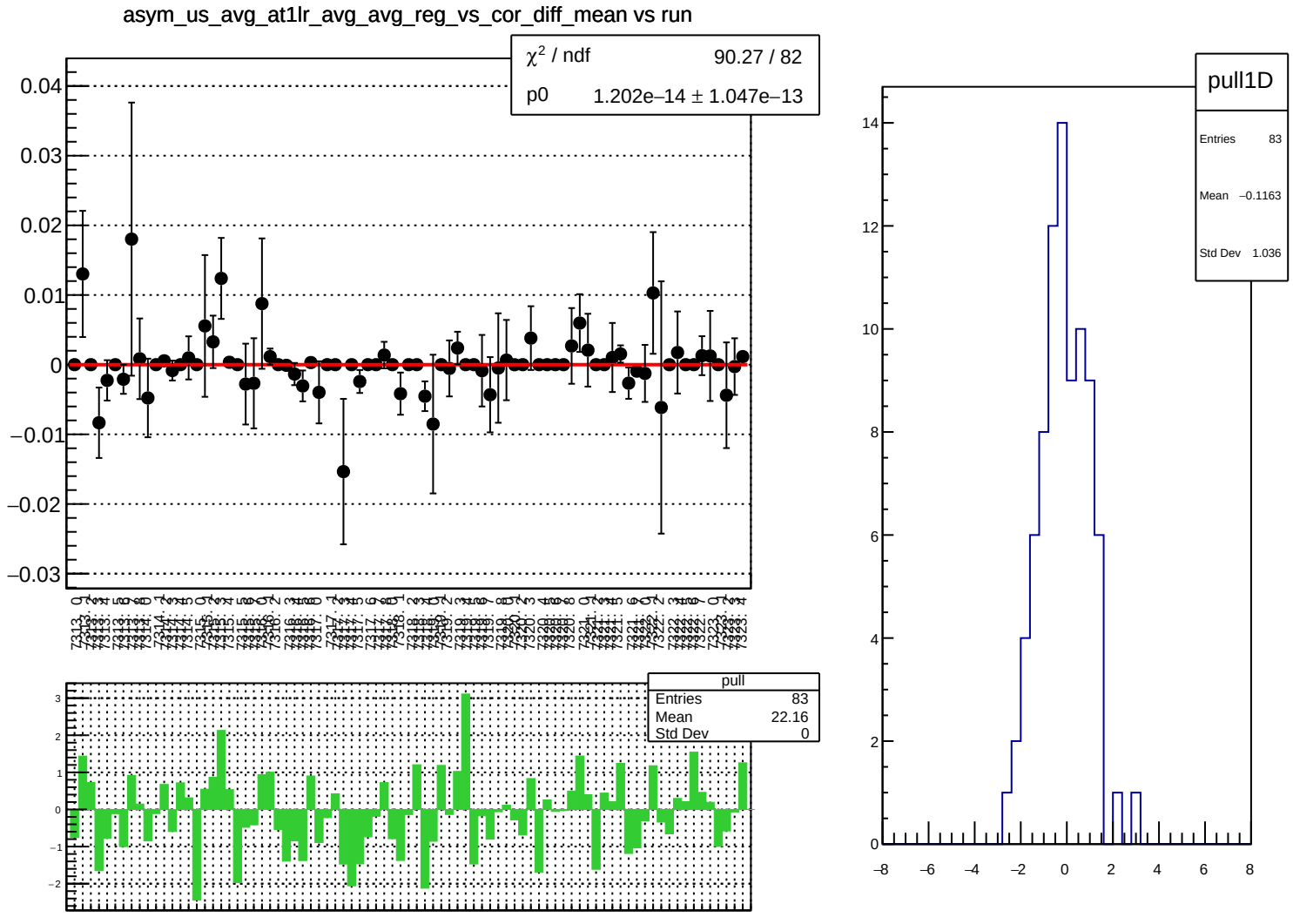

pull1D
Entries 83
Mean 0.005339
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

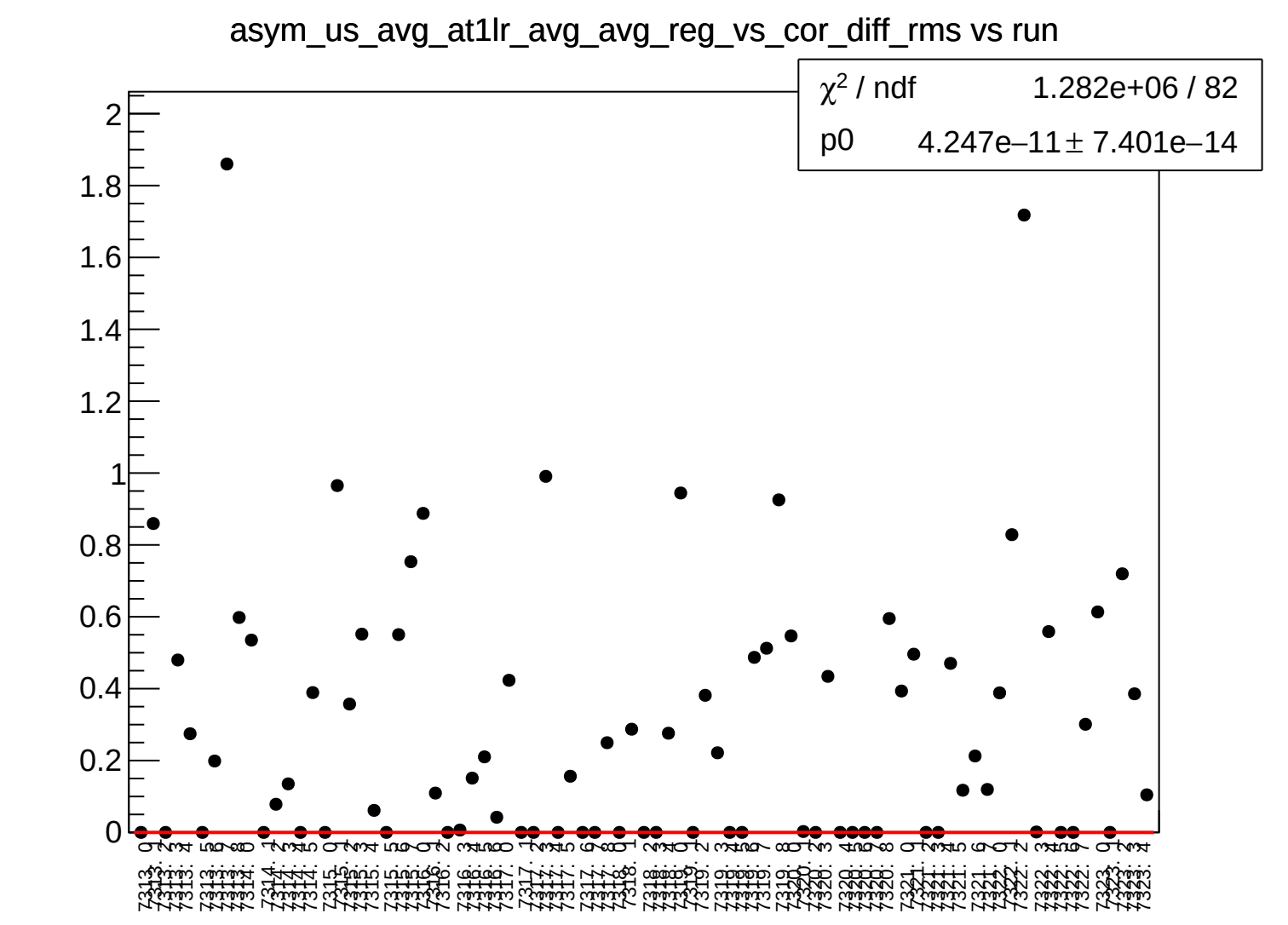

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.82e+04 / 82
p0 2698 ± 2.137
3600
3400
3200
3000
2800
2600
2400
2200
2000

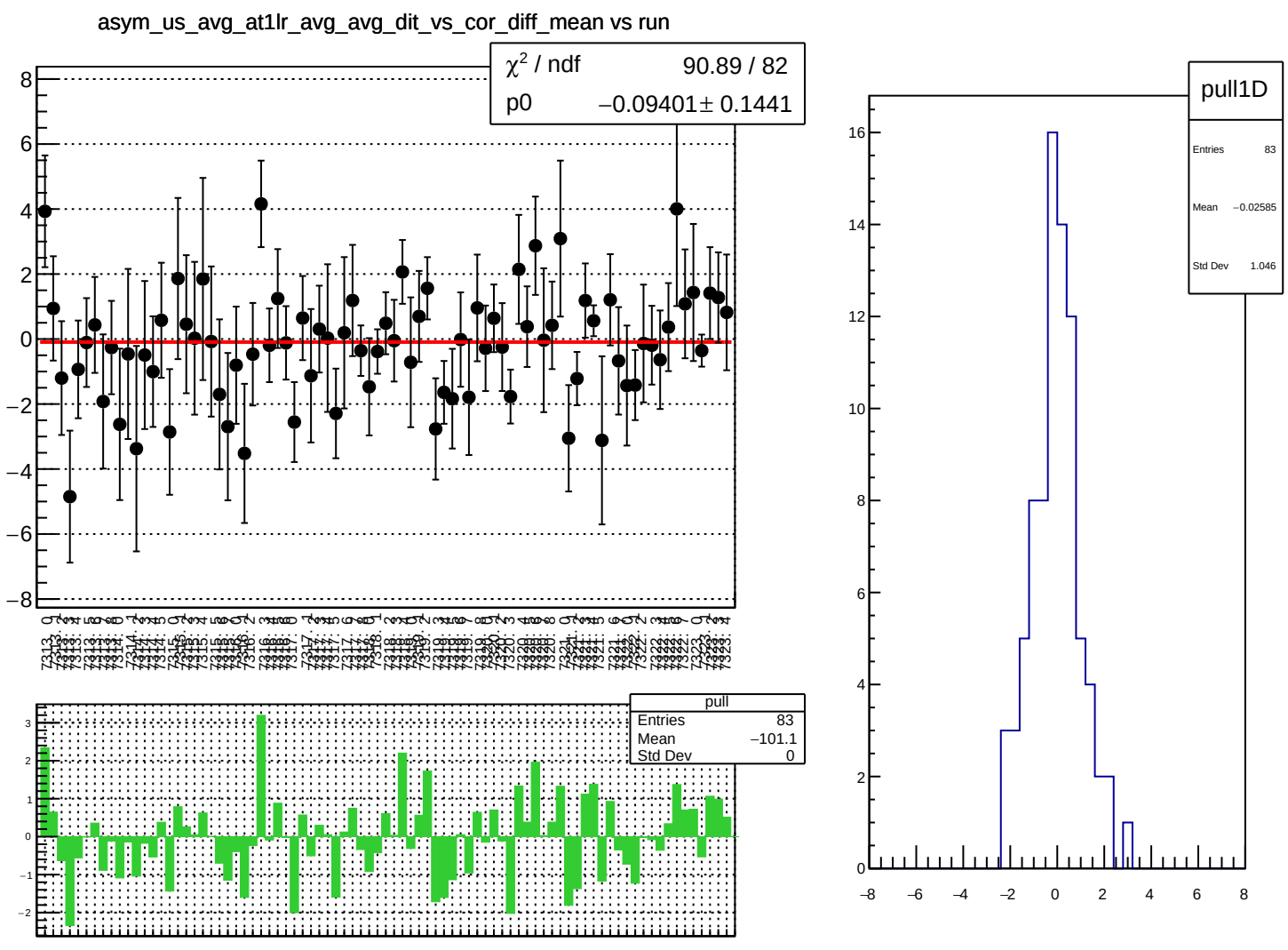

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 97.98 / 82
p0 −1756 ± 3840
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean 754.4
Std Dev 0
3
2
1
0
−1
−2

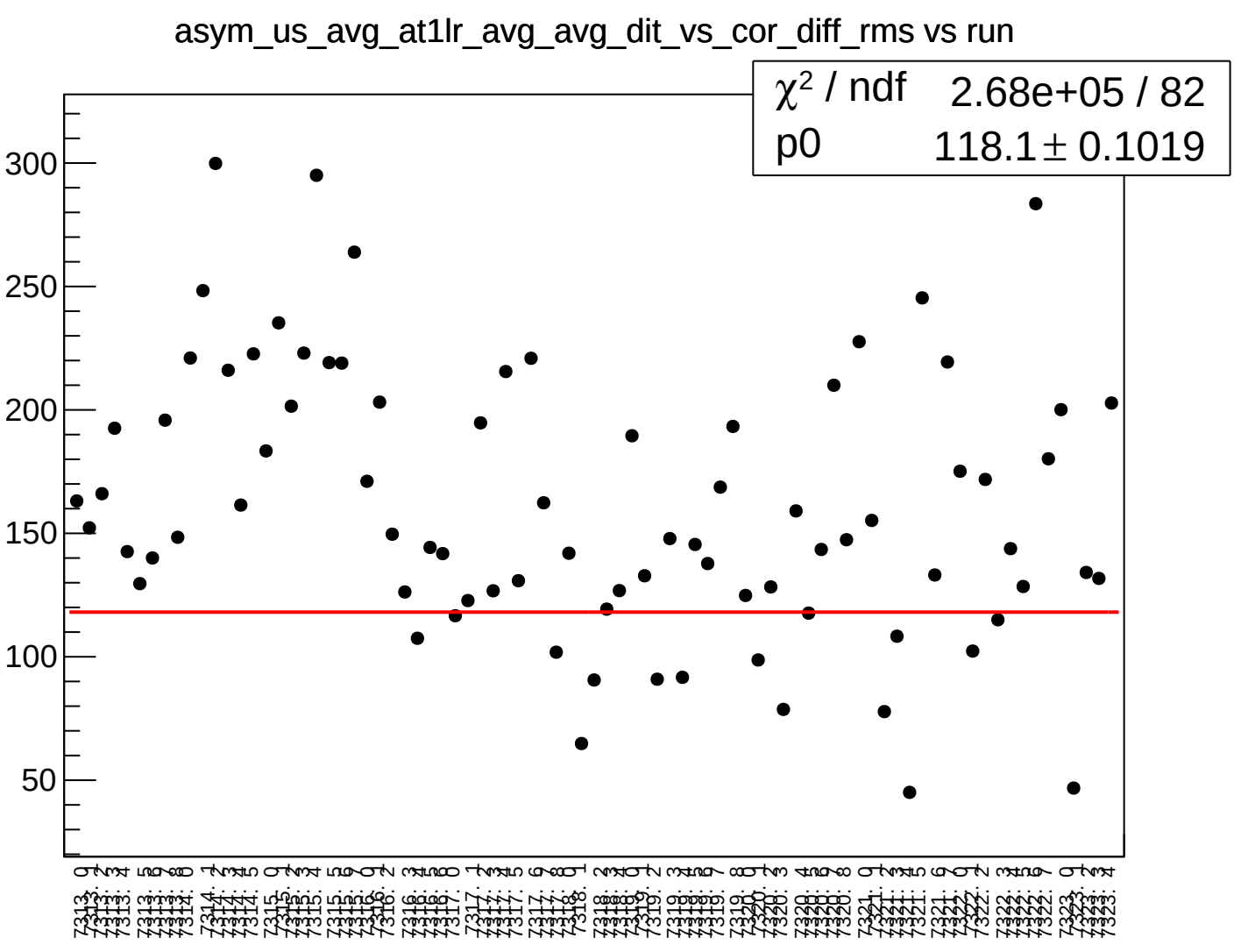

pull1D
Entries 83
Mean −0.005976
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

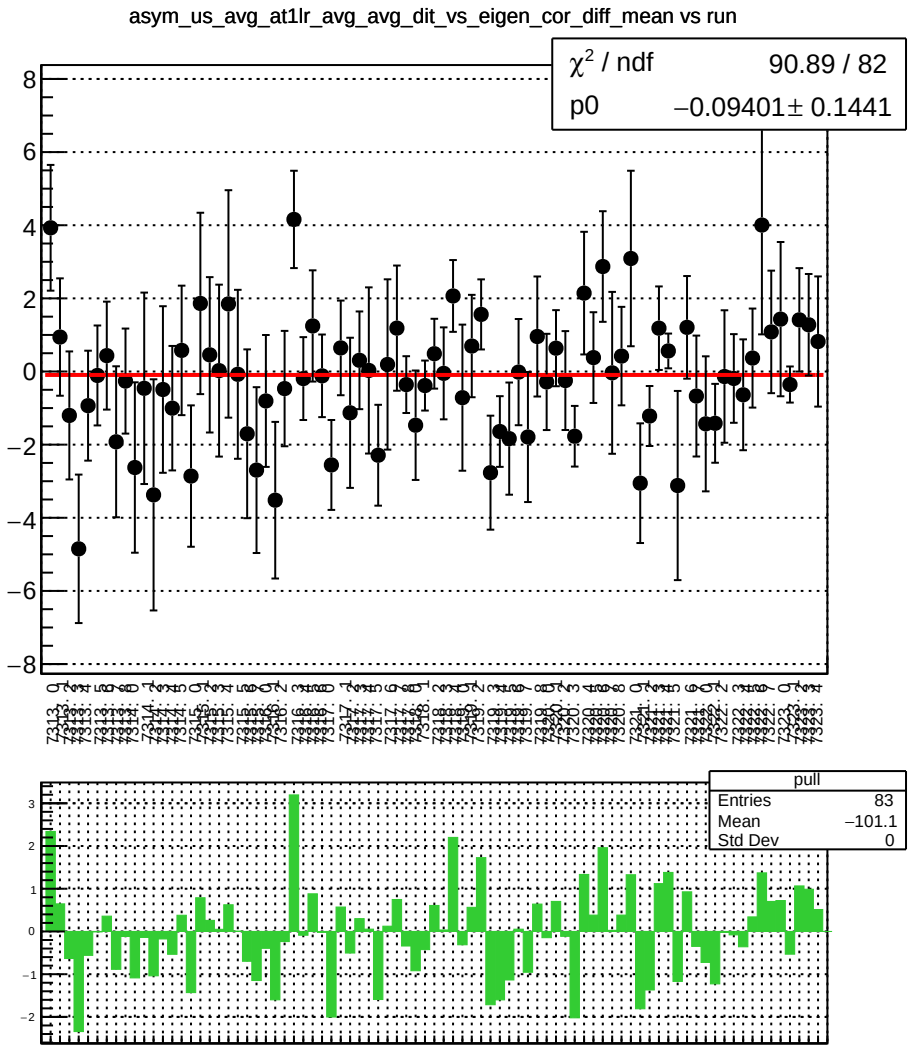

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6530 / 82
p0 3440 ± 2.715
4200
4000
3800
3600
3400
3200
3000
2800

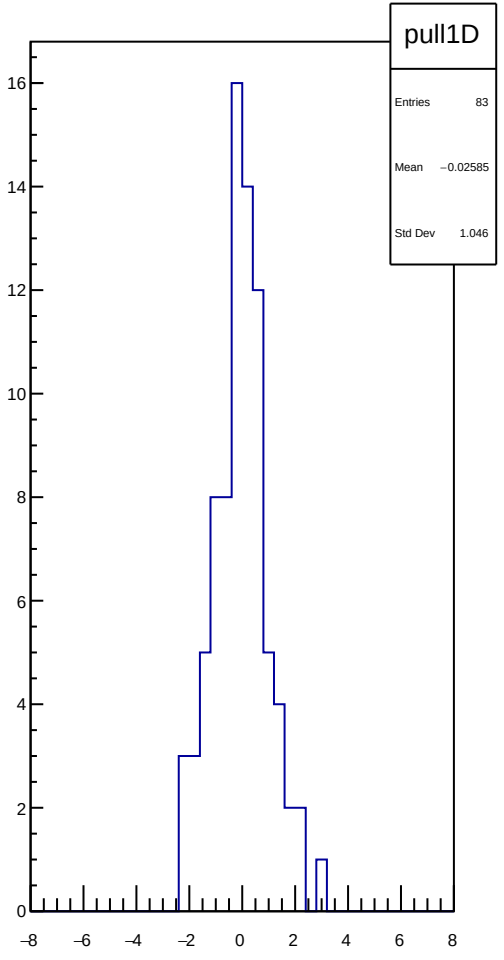

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 82
p0 1.202e−14 ± 1.047e−13
pull
Entries 83
Mean 22.16
Std Dev 0
pull1D
Entries 83
Mean −0.1163
Std Dev 1.036

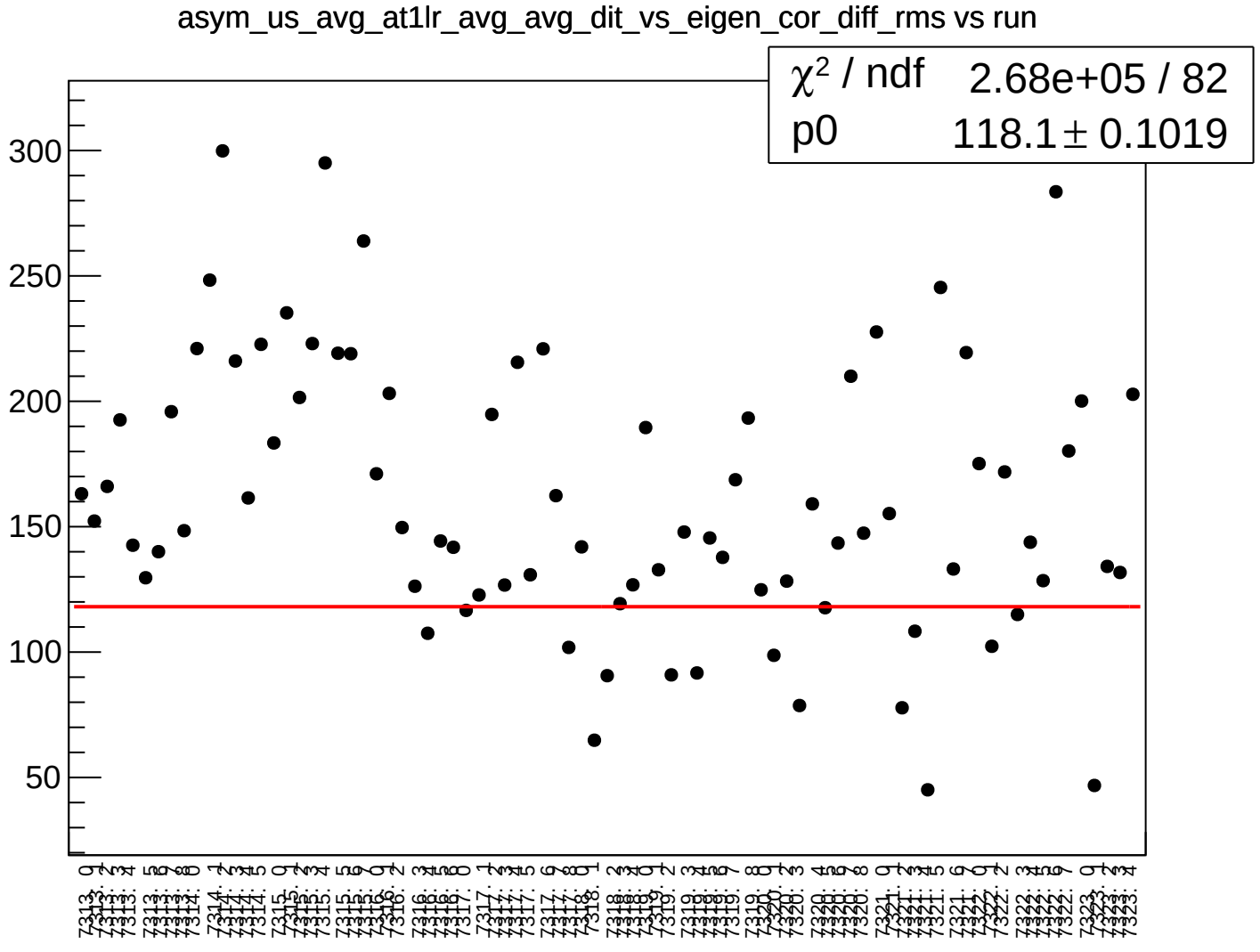

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.282e+06 / 82
p0 4.247e−11 ± 7.401e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

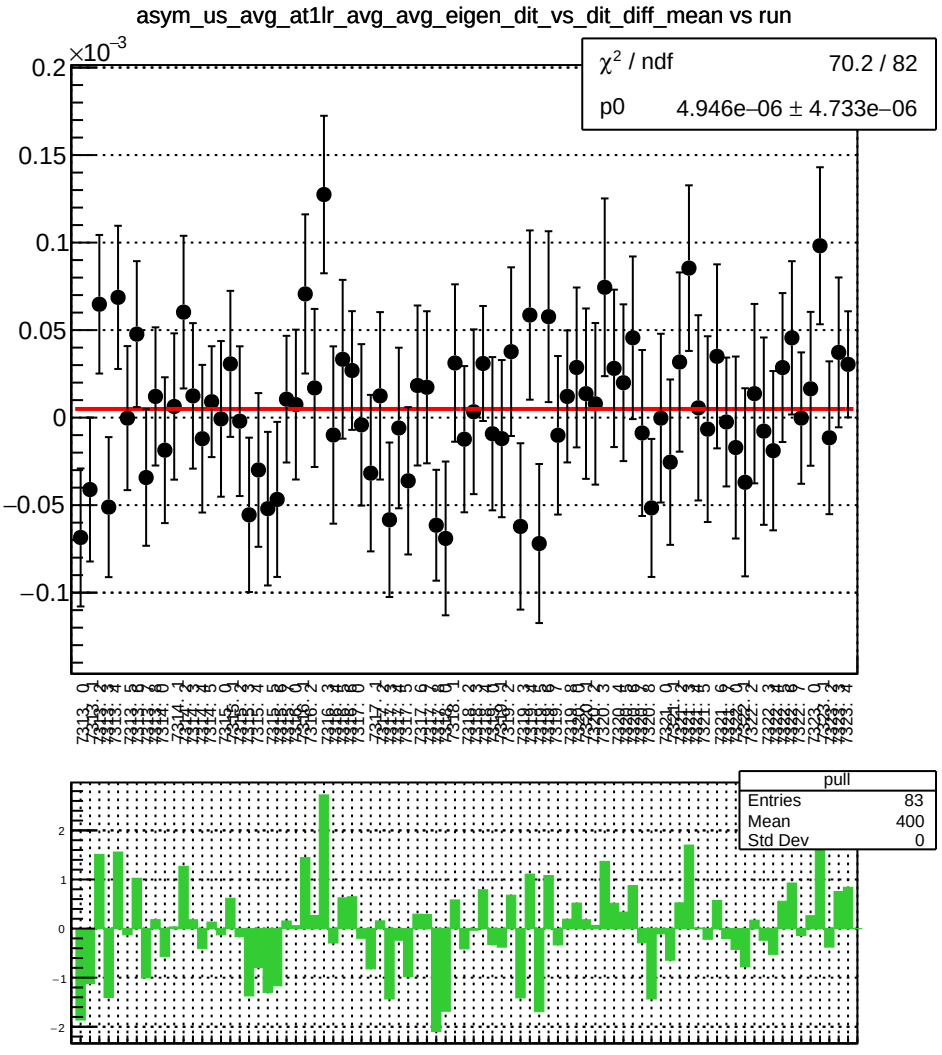

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.89 / 82
p0 −0.09401 ± 0.1441
pull
Entries 83
Mean −101.1
Std Dev 0
pull1D
Entries 83
Mean −0.02585
Std Dev 1.046

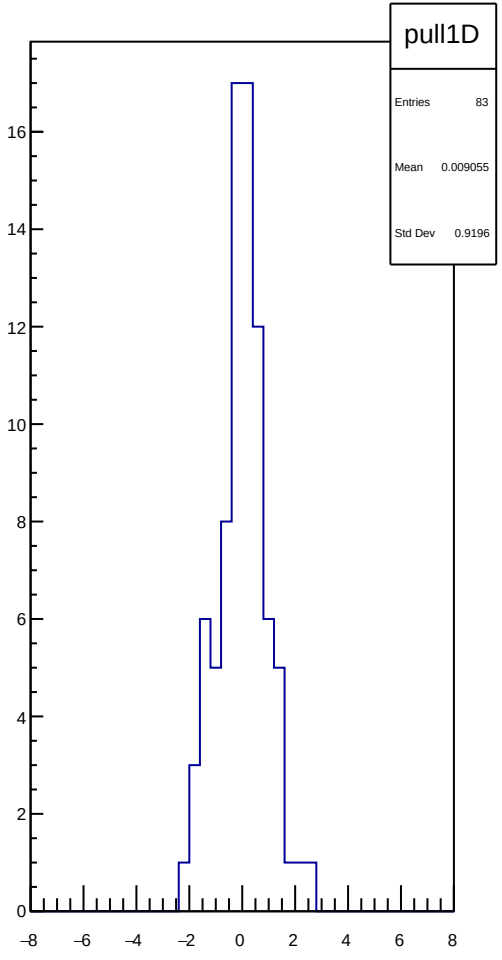

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 82
p0 118.1 ± 0.1019
300
250
200
150
100
50

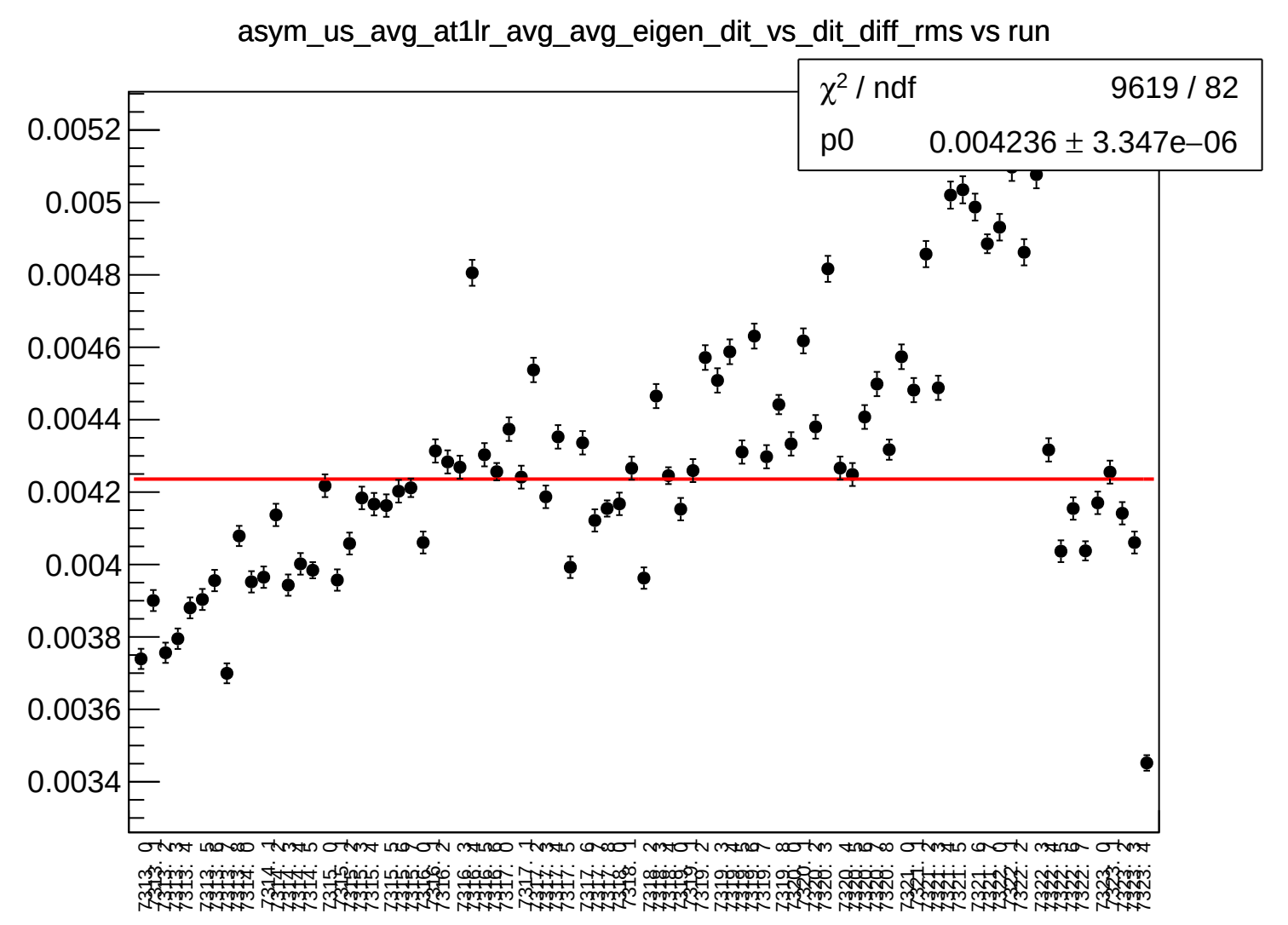

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.89 / 82
p0 −0.09401 ± 0.1441
pull
Entries 83
Mean −101.1
Std Dev 0

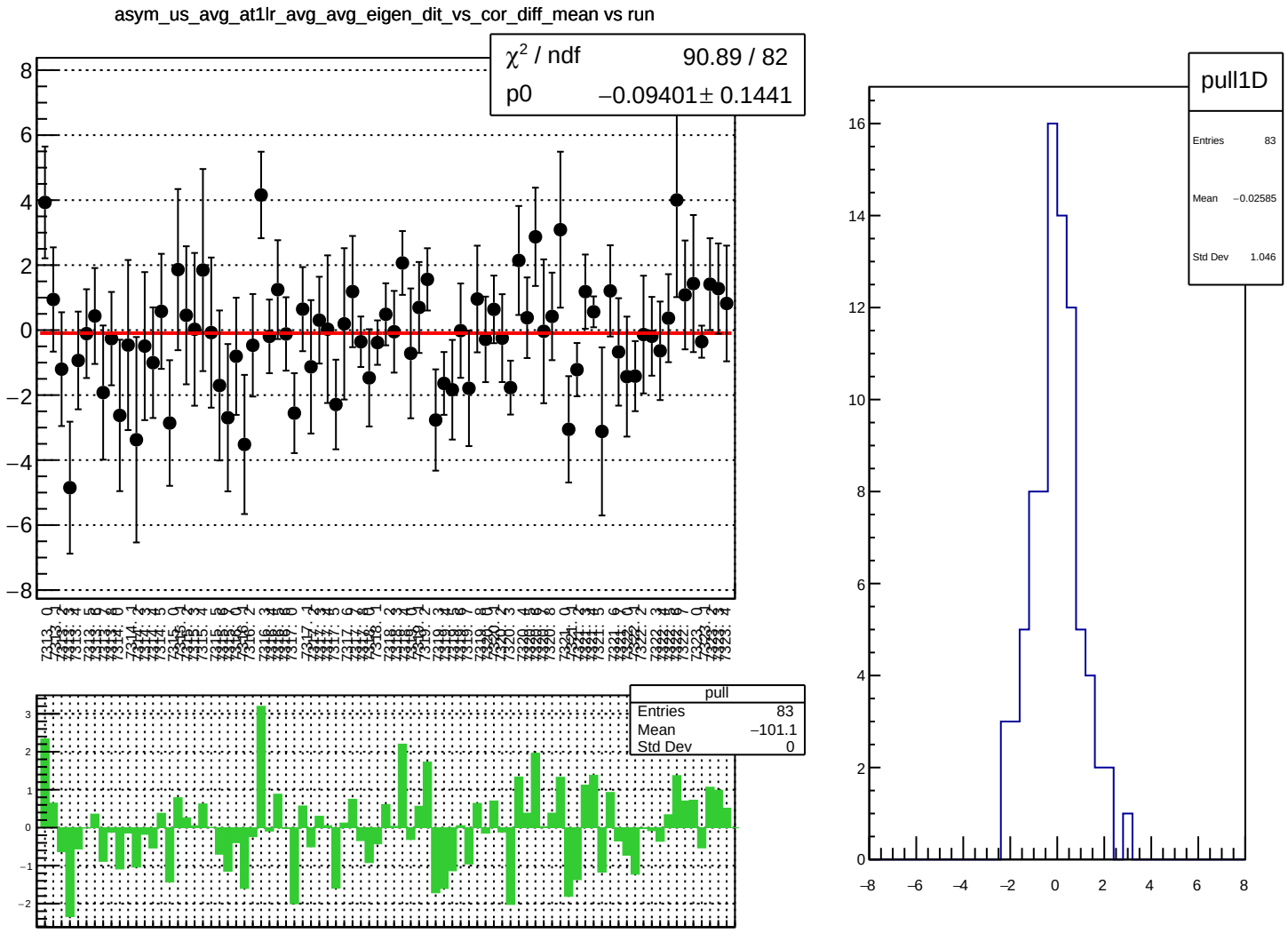

pull1D
Entries 83
Mean −0.02585
Std Dev 1.046

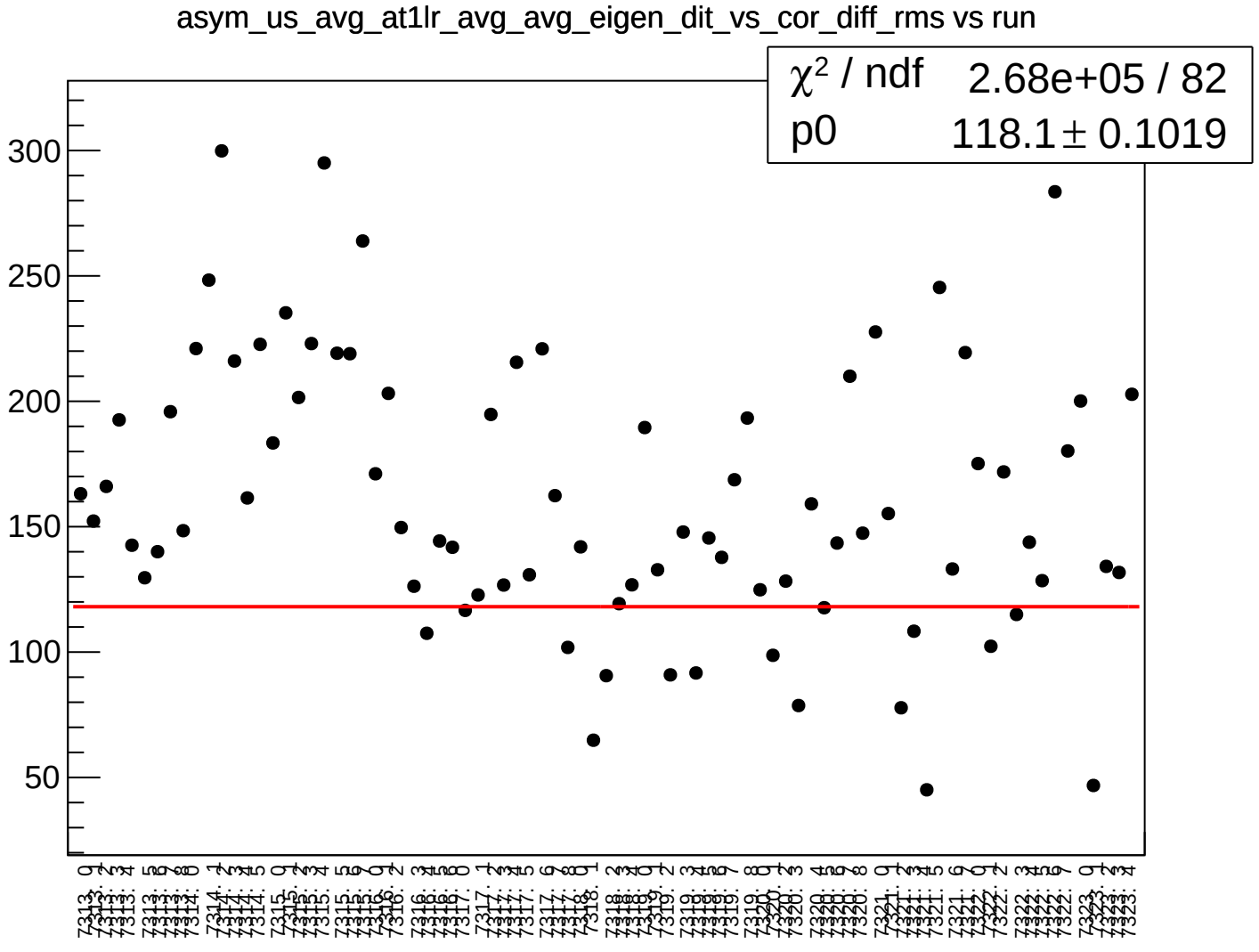

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 82
p0 118.1 ± 0.1019
300
250
200
150
100
50

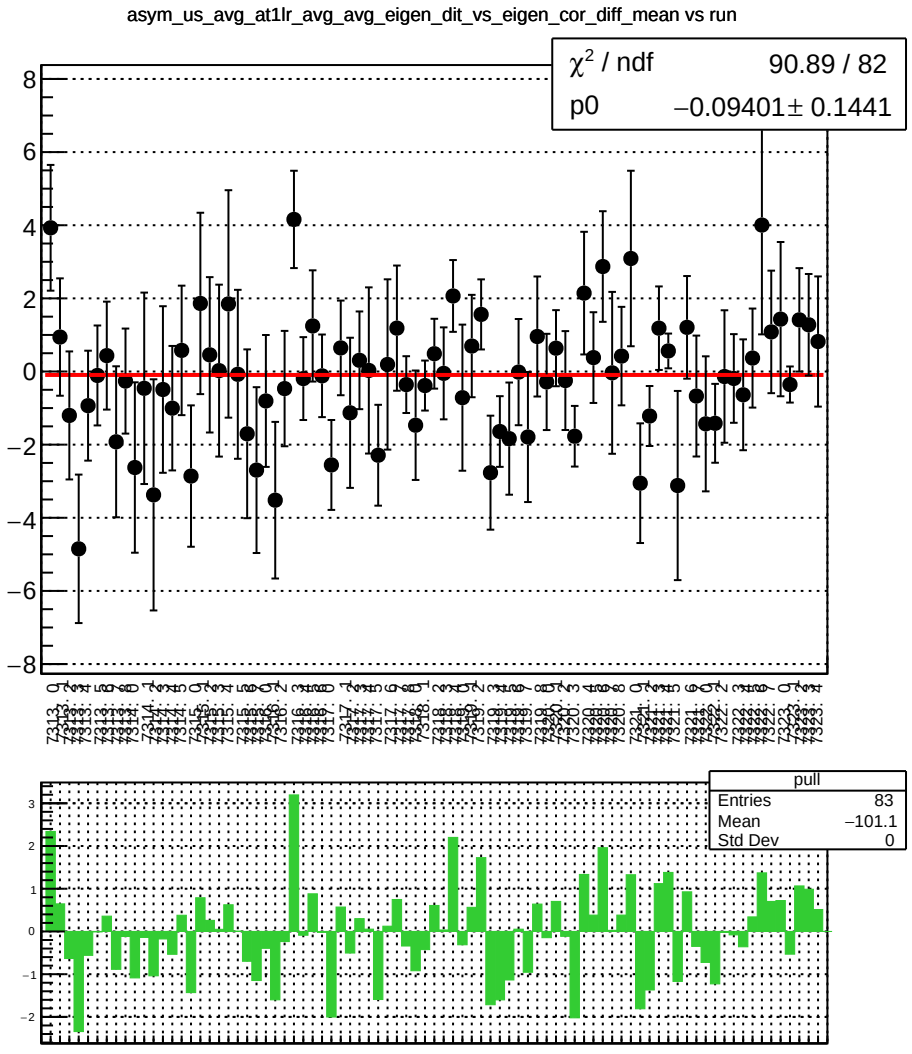

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.2 / 82
p0 4.946e−06 ± 4.733e−06
pull
Entries 83
Mean 400
Std Dev 0

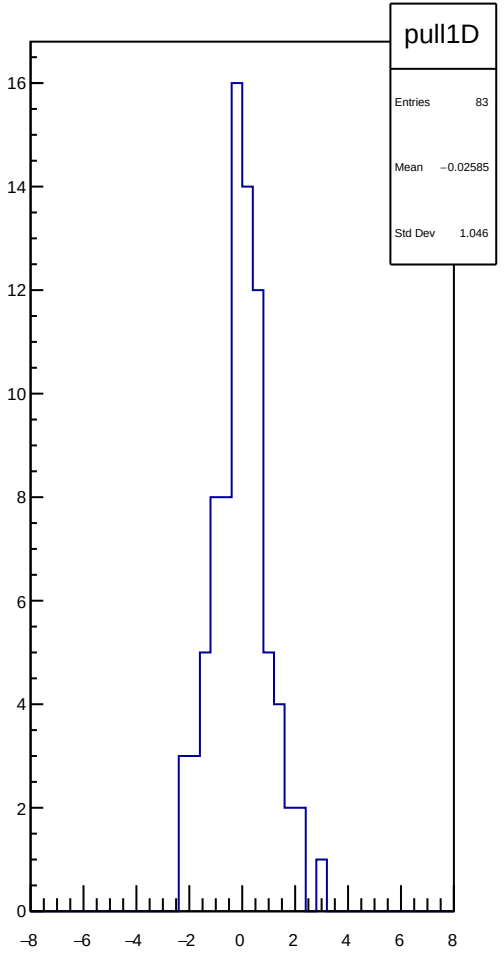

pull1D
Entries 83
Mean 0.009055
Std Dev 0.9196

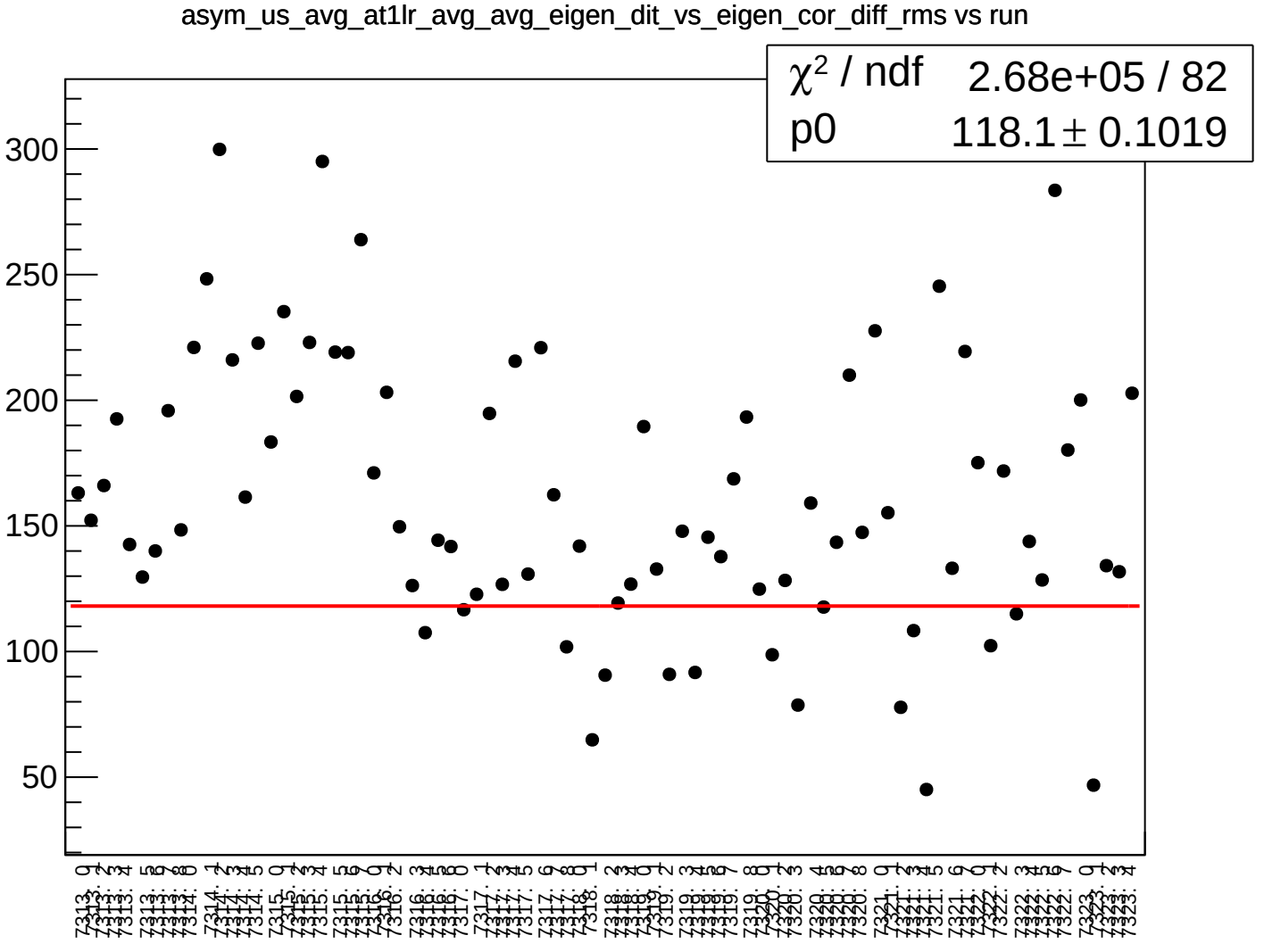

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9619 / 82
p0 0.004236 ± 3.347e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

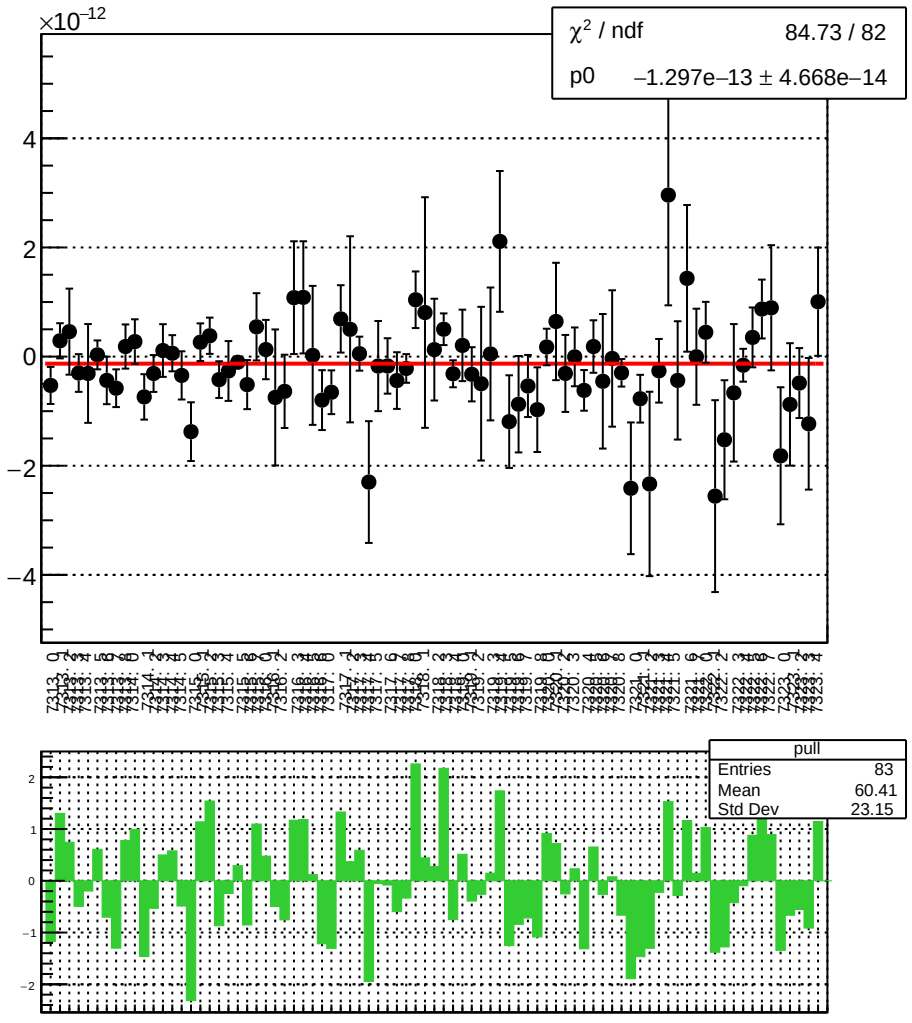

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.89 / 82
p0 −0.09401 ± 0.1441
pull
Entries 83
Mean −101.1
Std Dev 0
pull1D
Entries 83
Mean −0.02585
Std Dev 1.046

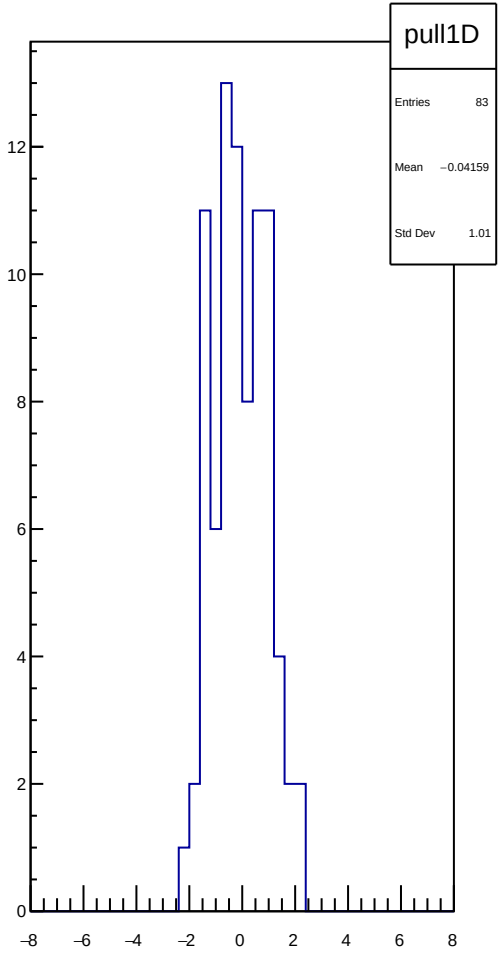

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 82
p0 118.1 ± 0.1019
300
250
200
150
100
50

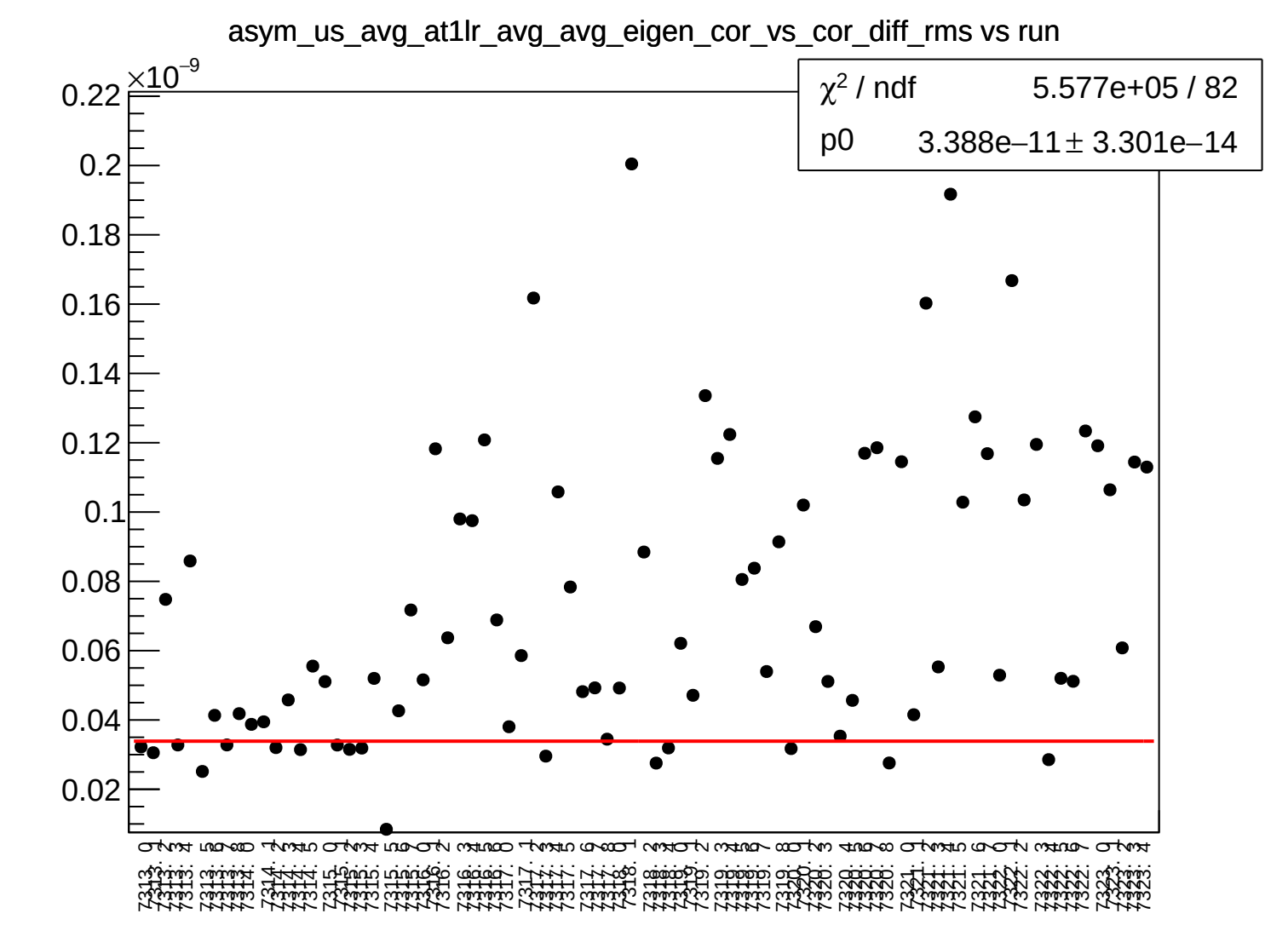

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.89 / 82
p0 −0.09401 ± 0.1441
pull
Entries 83
Mean −101.1
Std Dev 0

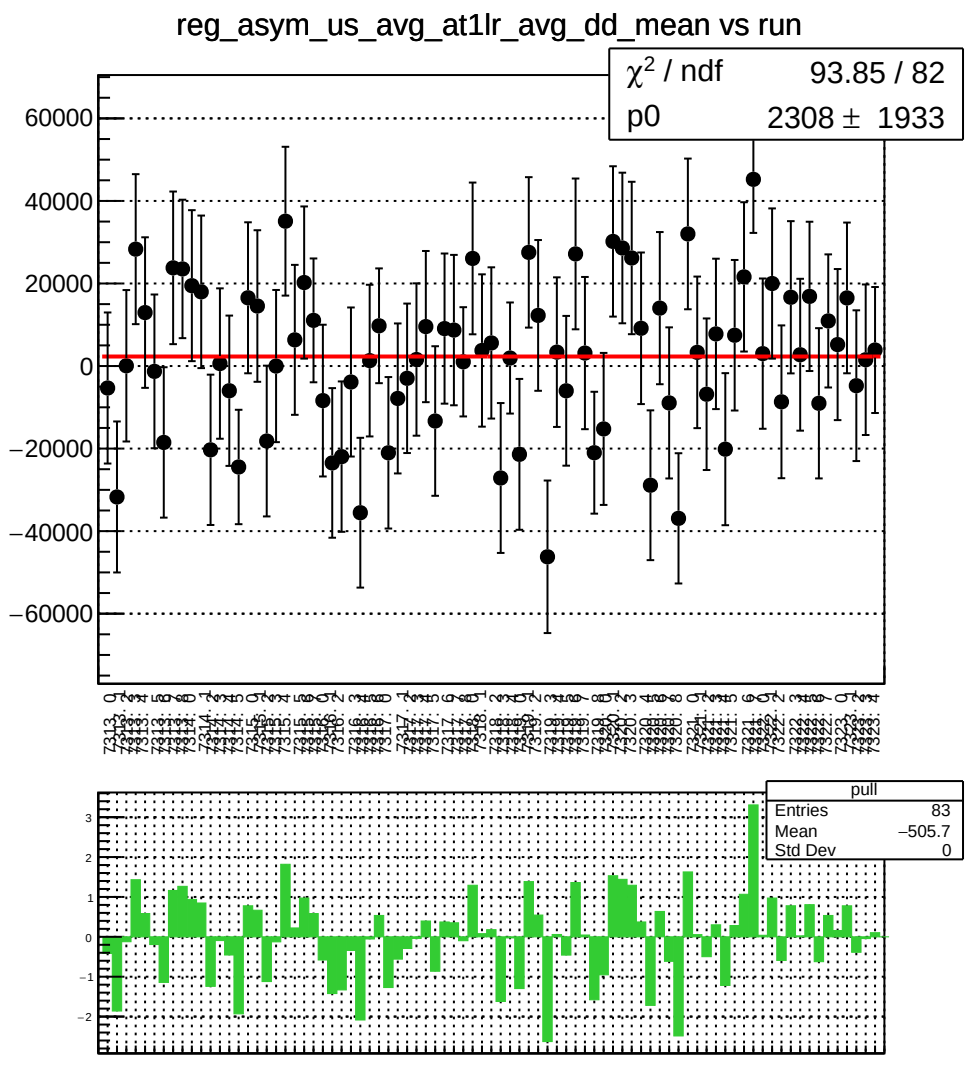

pull1D
Entries 83
Mean −0.02585
Std Dev 1.046

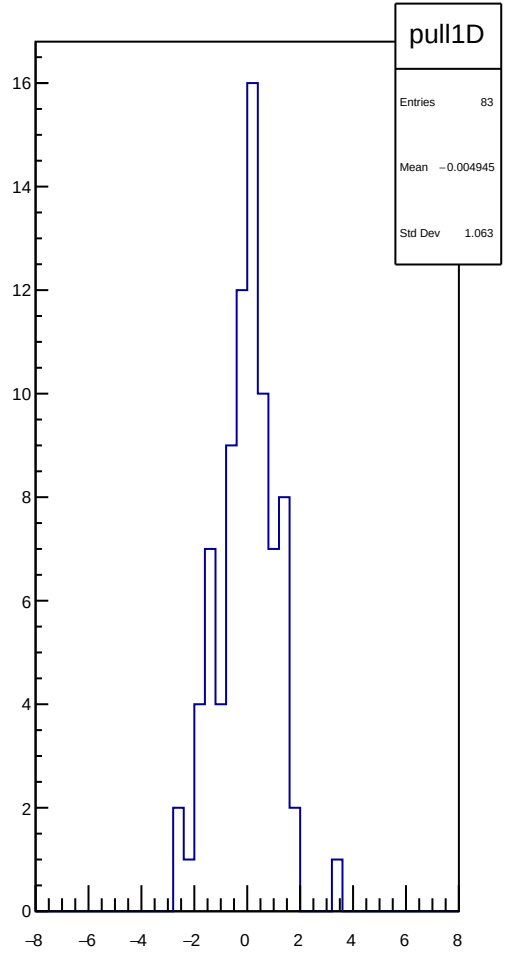

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 82
p0 118.1 ± 0.1019
300
250
200
150
100
50

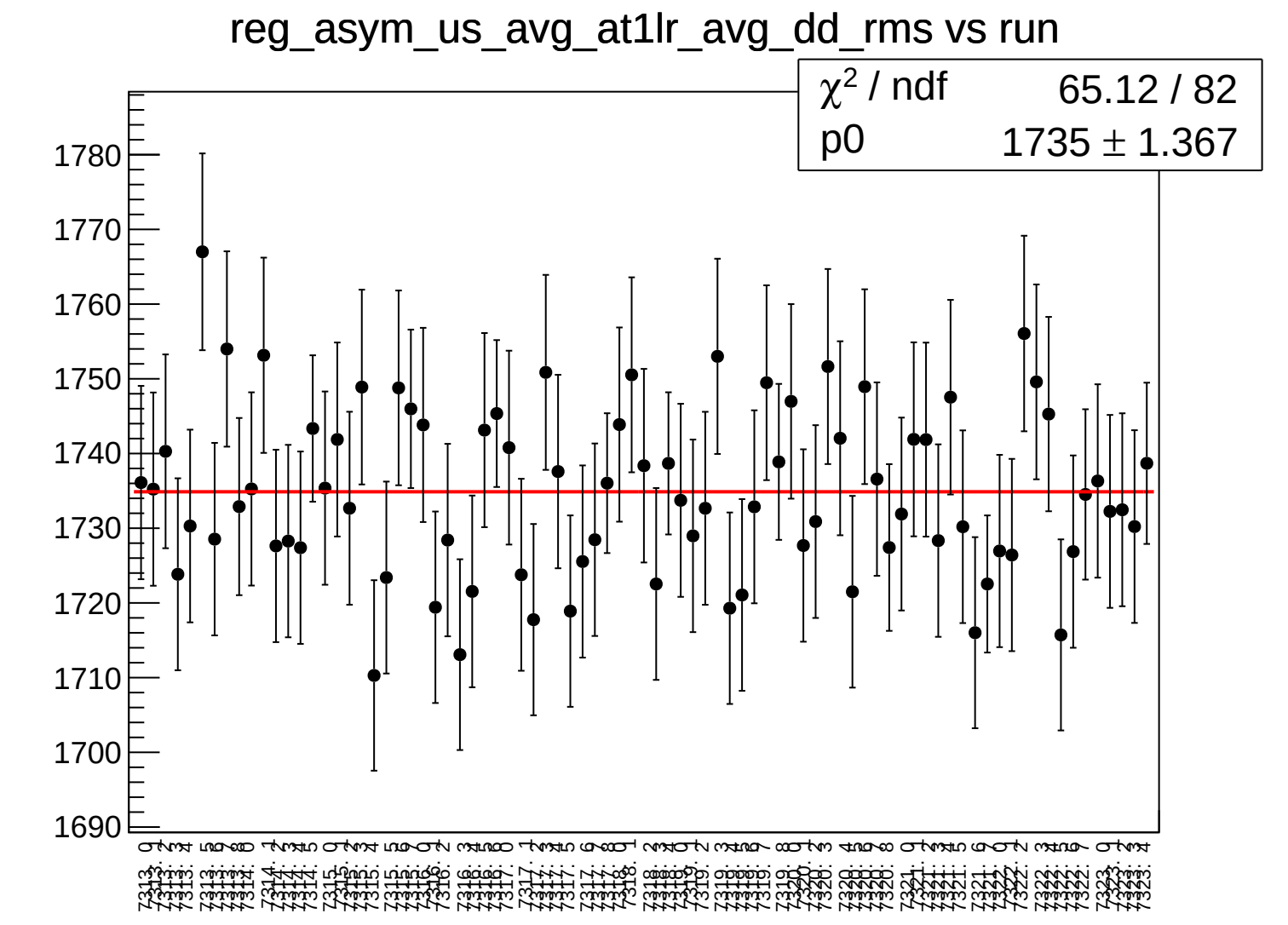

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.73 / 82
p0 −1.297e−13 ± 4.668e−14
pull
Entries 83
Mean 60.41
Std Dev 23.15

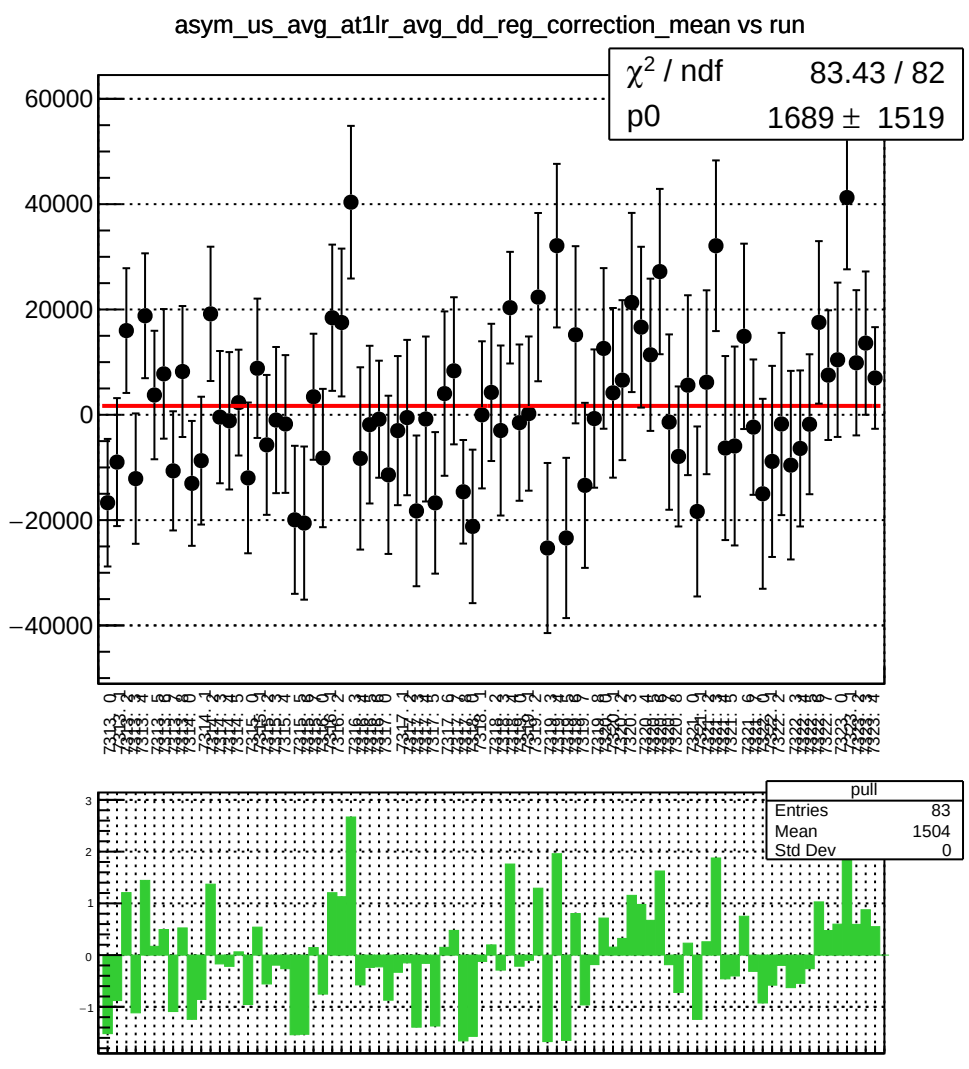

pull1D
Entries 83
Mean −0.04159
Std Dev 1.01

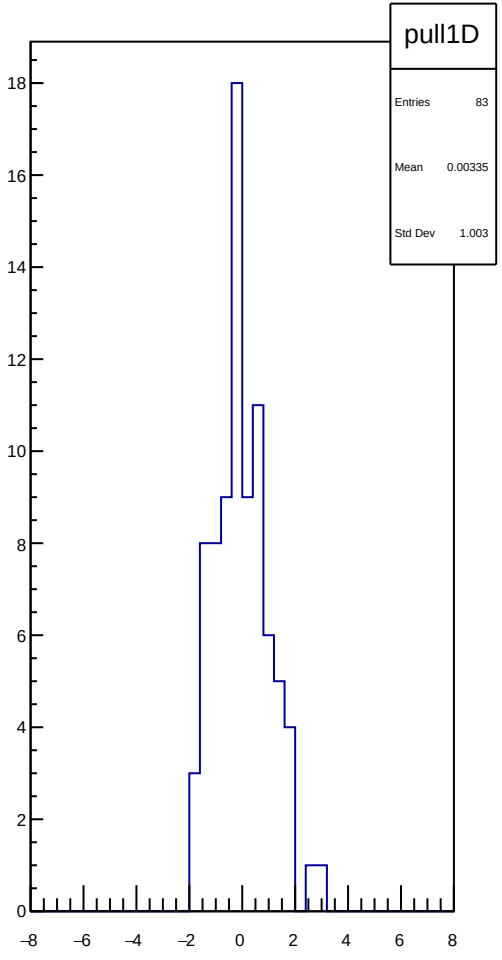

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.577e+05 / 82
p0 3.388e−11 ± 3.301e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

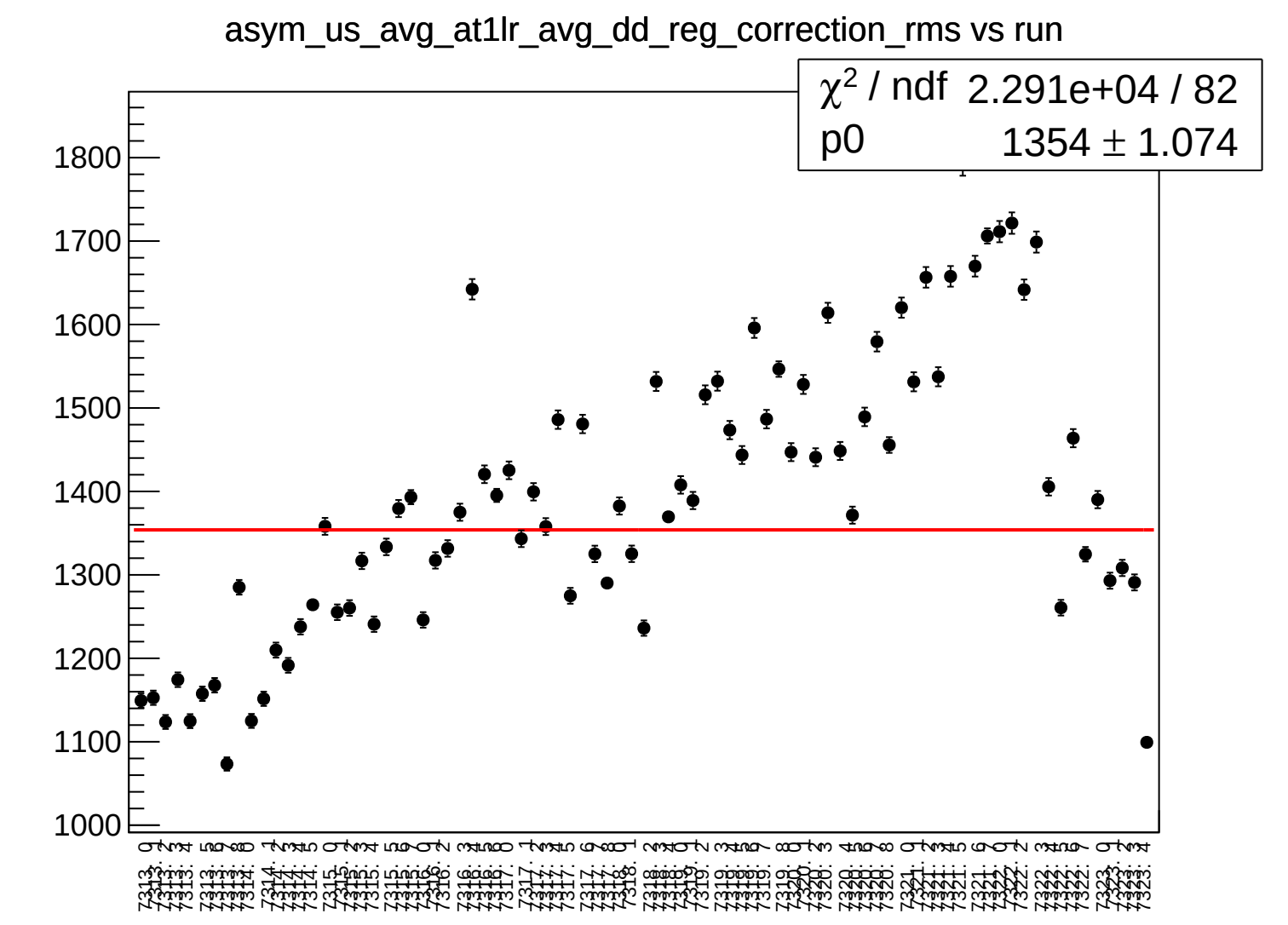

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.85 / 82
p0 2308 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −505.7
Std Dev 0
3
2
1
0
−1
−2

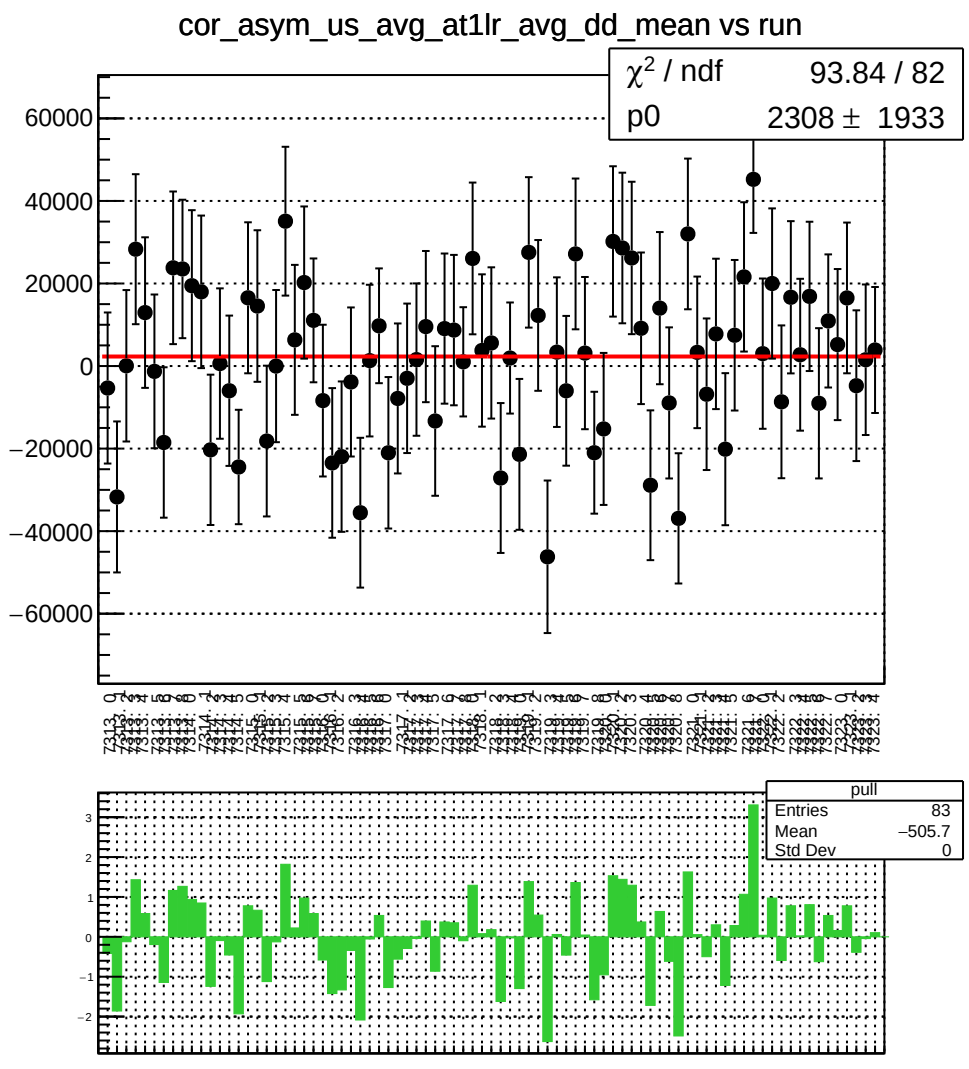

pull1D
Entries 83
Mean −0.004945
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

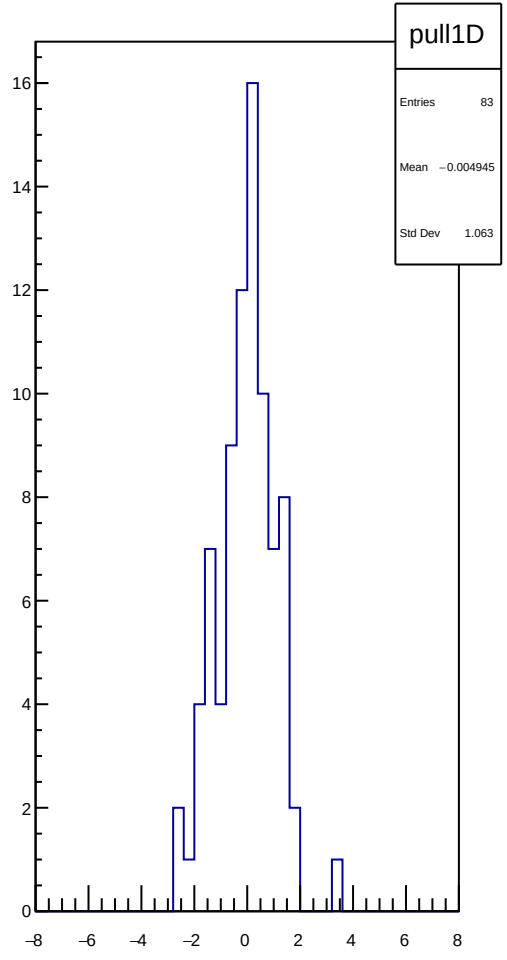

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 65.12 / 82
p0 1735 ± 1.367
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

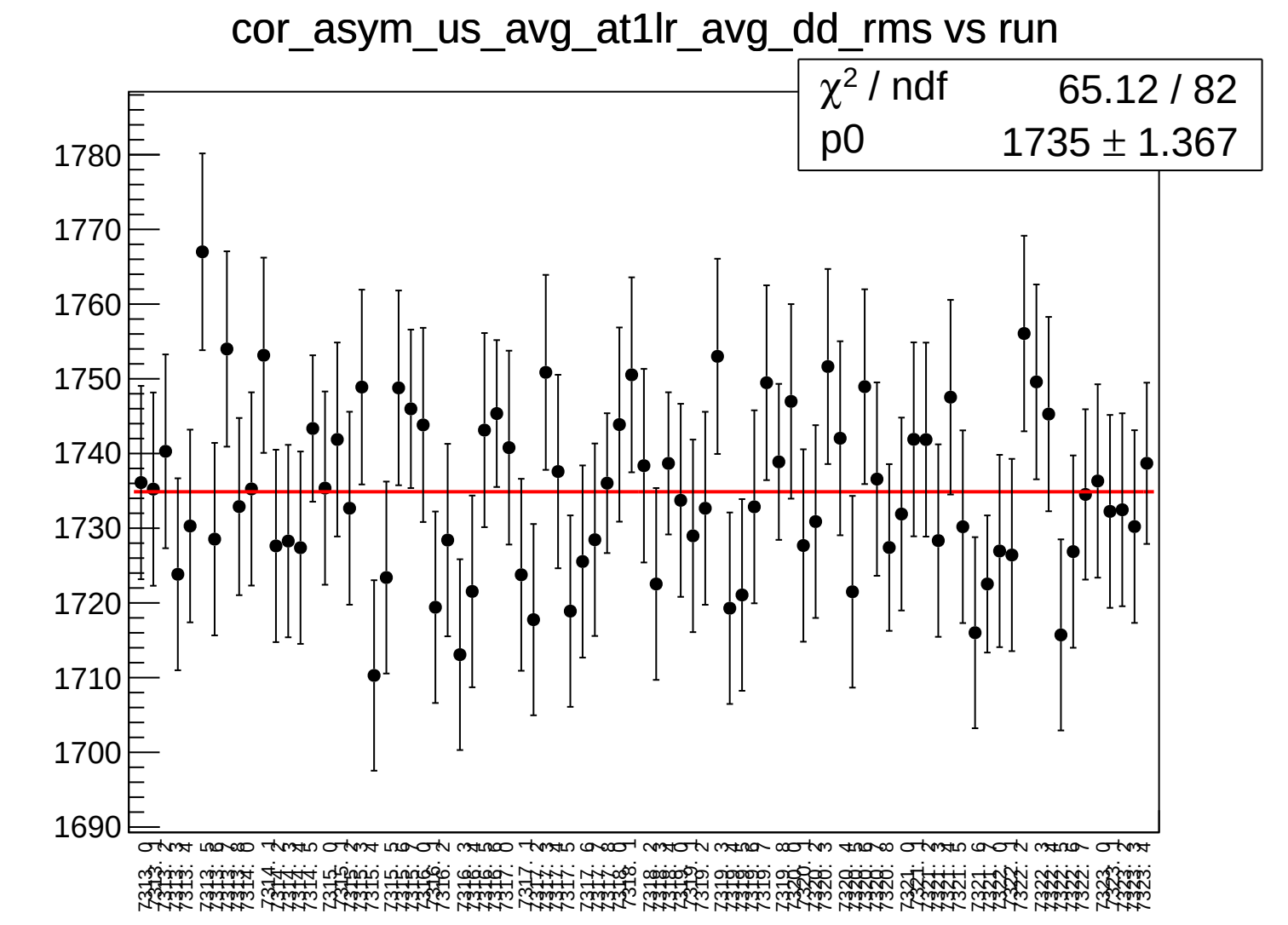

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 83.43 / 82
p0 1689 ± 1519
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1504
Std Dev 0
3
2
1
0
−1

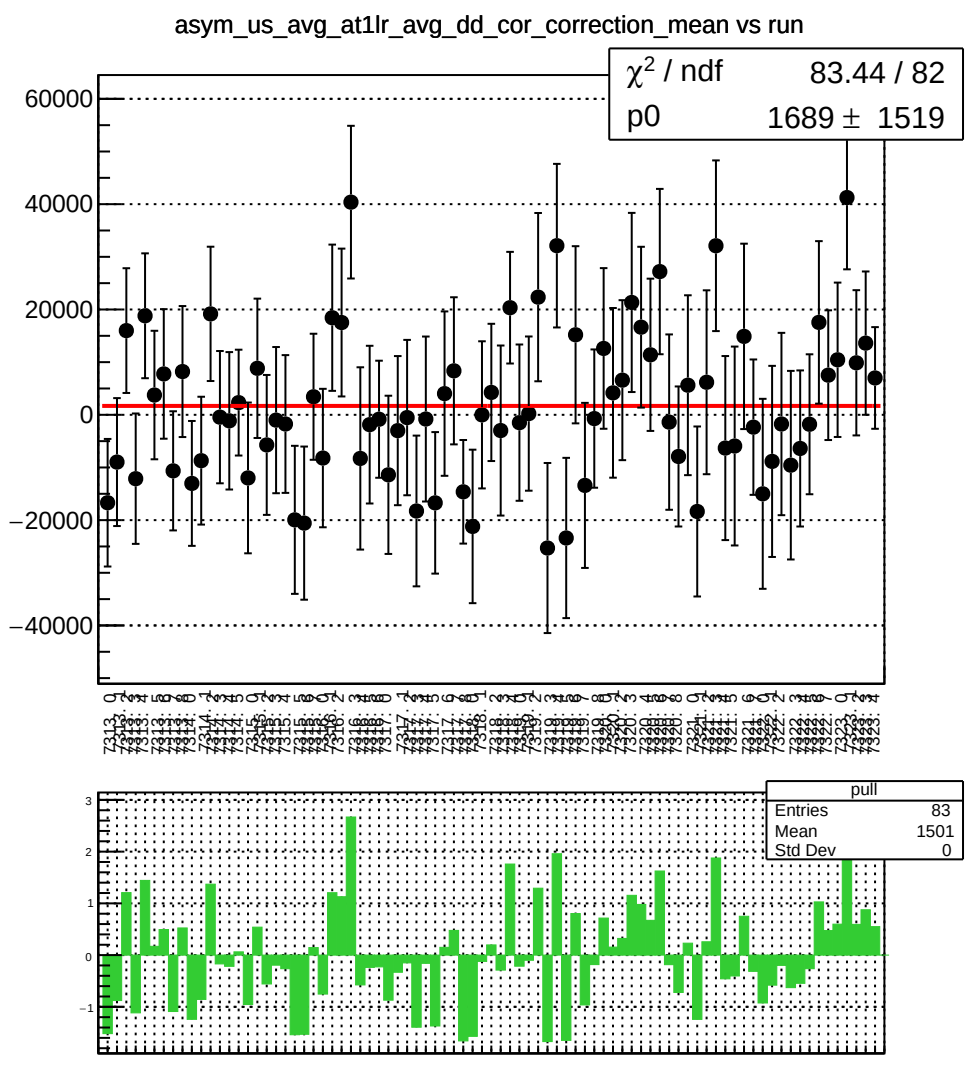

pull1D
Entries 83
Mean 0.00335
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

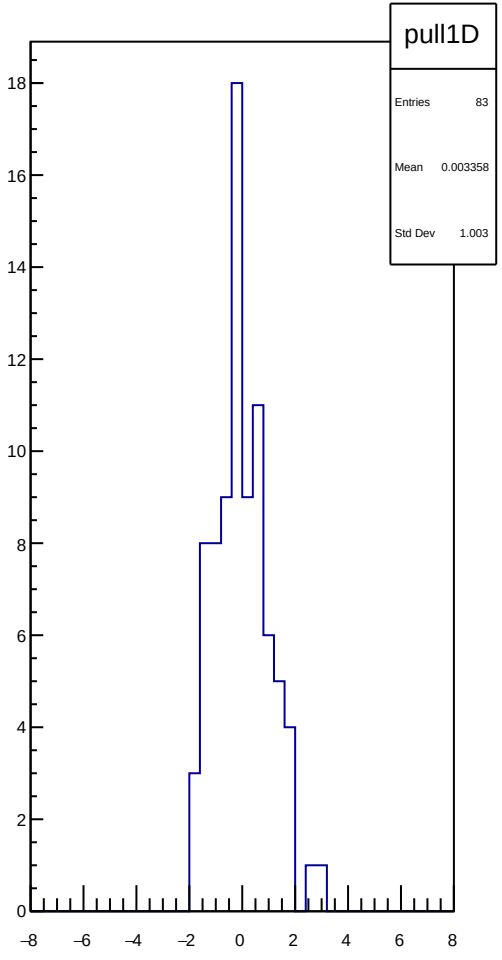

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.291e+04 / 82
p0 1354 ± 1.074
1800
1700
1600
1500
1400
1300
1200
1100
1000

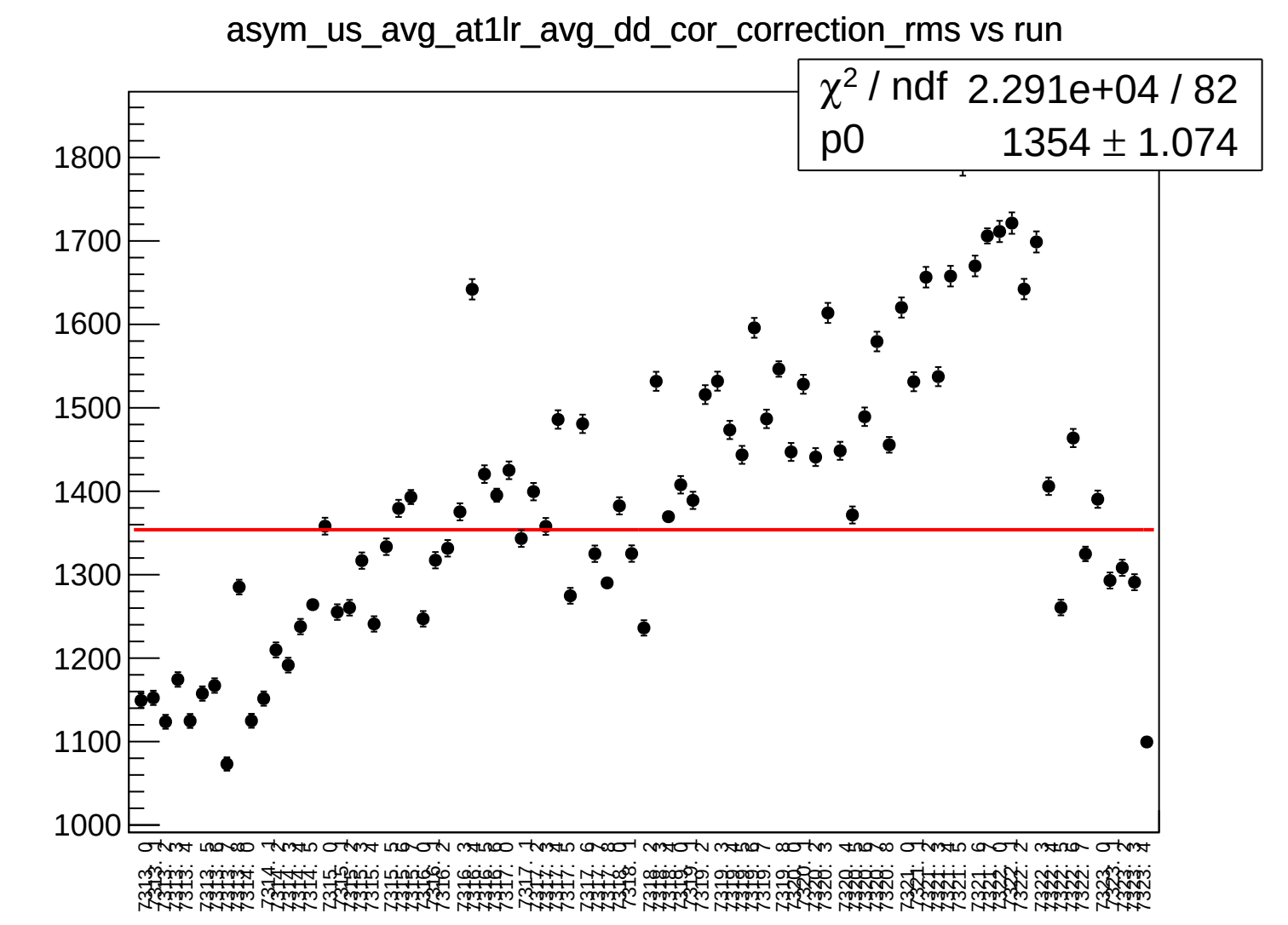

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.84 / 82
p0 2308 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −505.7
Std Dev 0
3
2
1
0
−1
−2

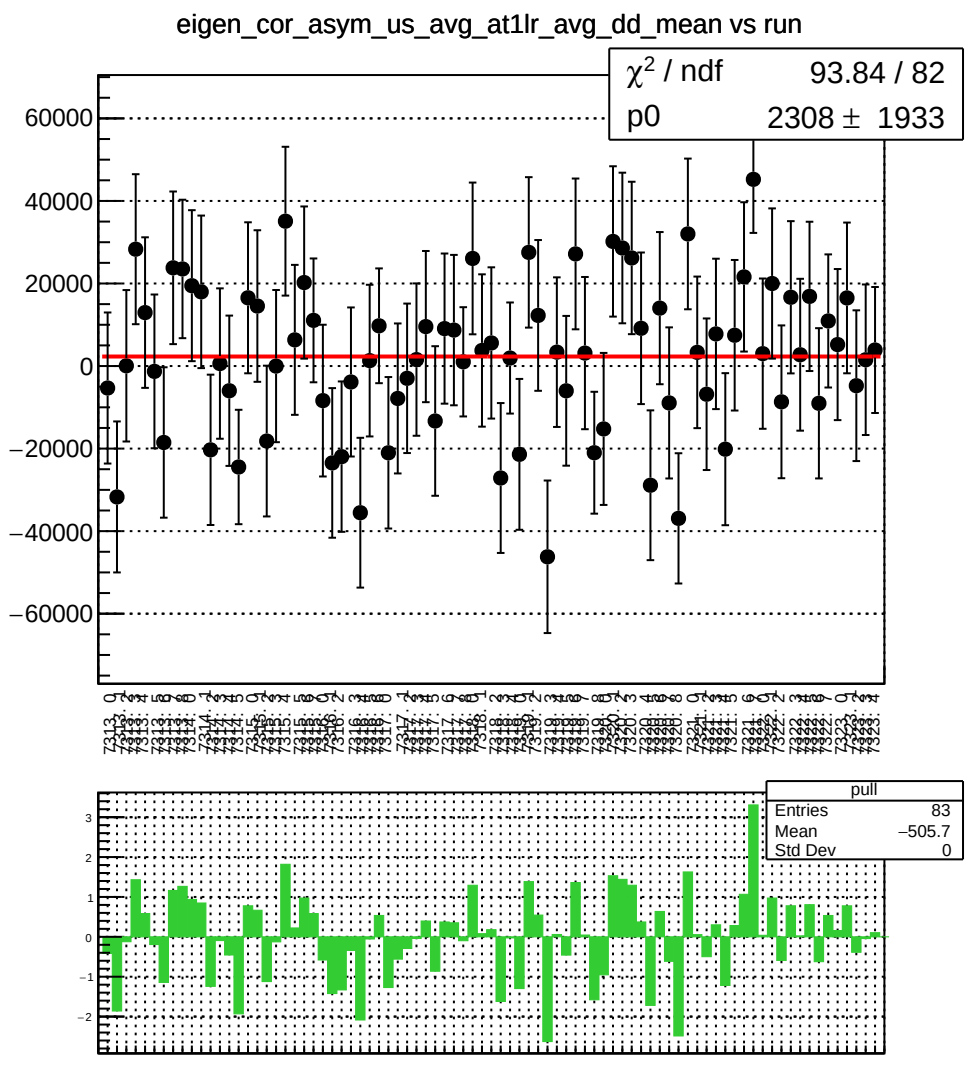

pull1D
Entries 83
Mean −0.004945
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

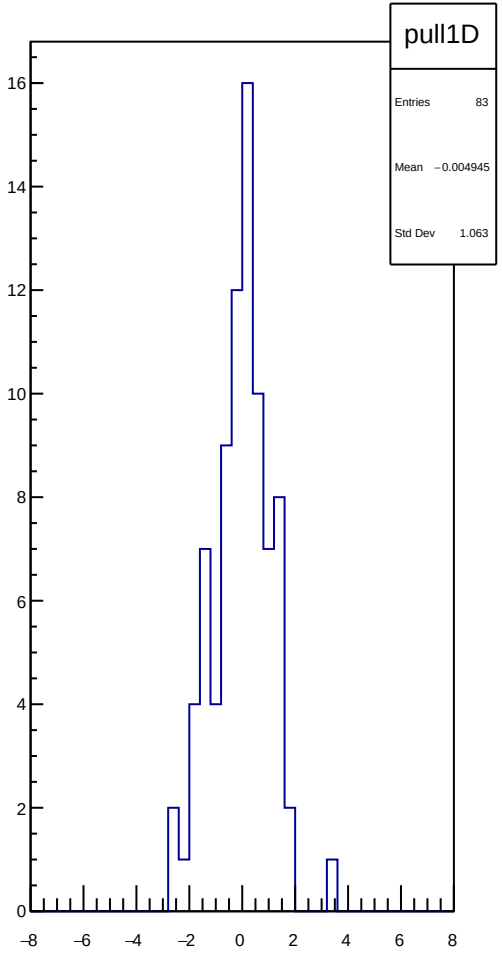

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 65.12 / 82
p0 1735 ± 1.367
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

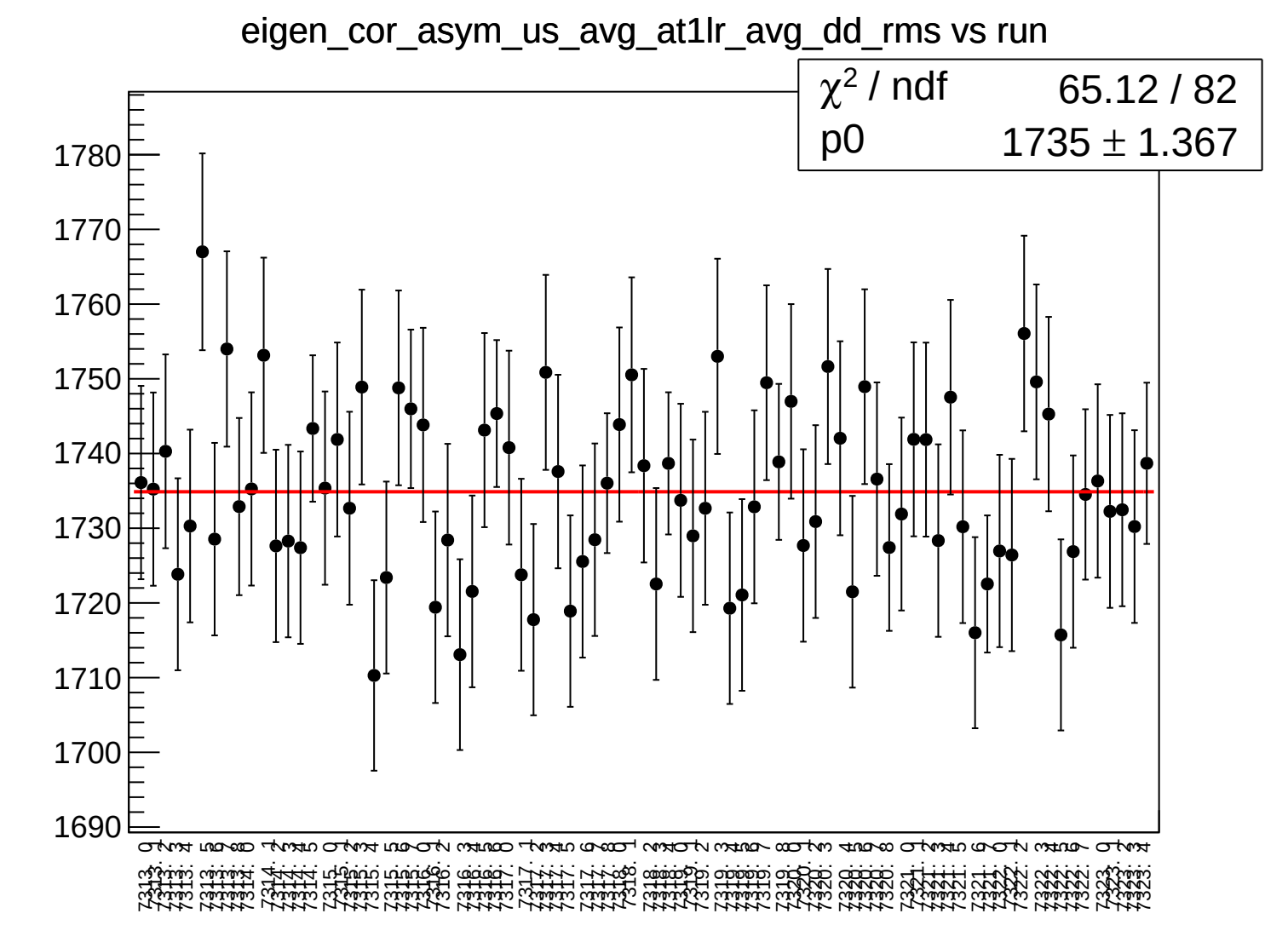

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 83.44 / 82
p0 1689 ± 1519
pull
Entries 83
Mean 1501
Std Dev 0

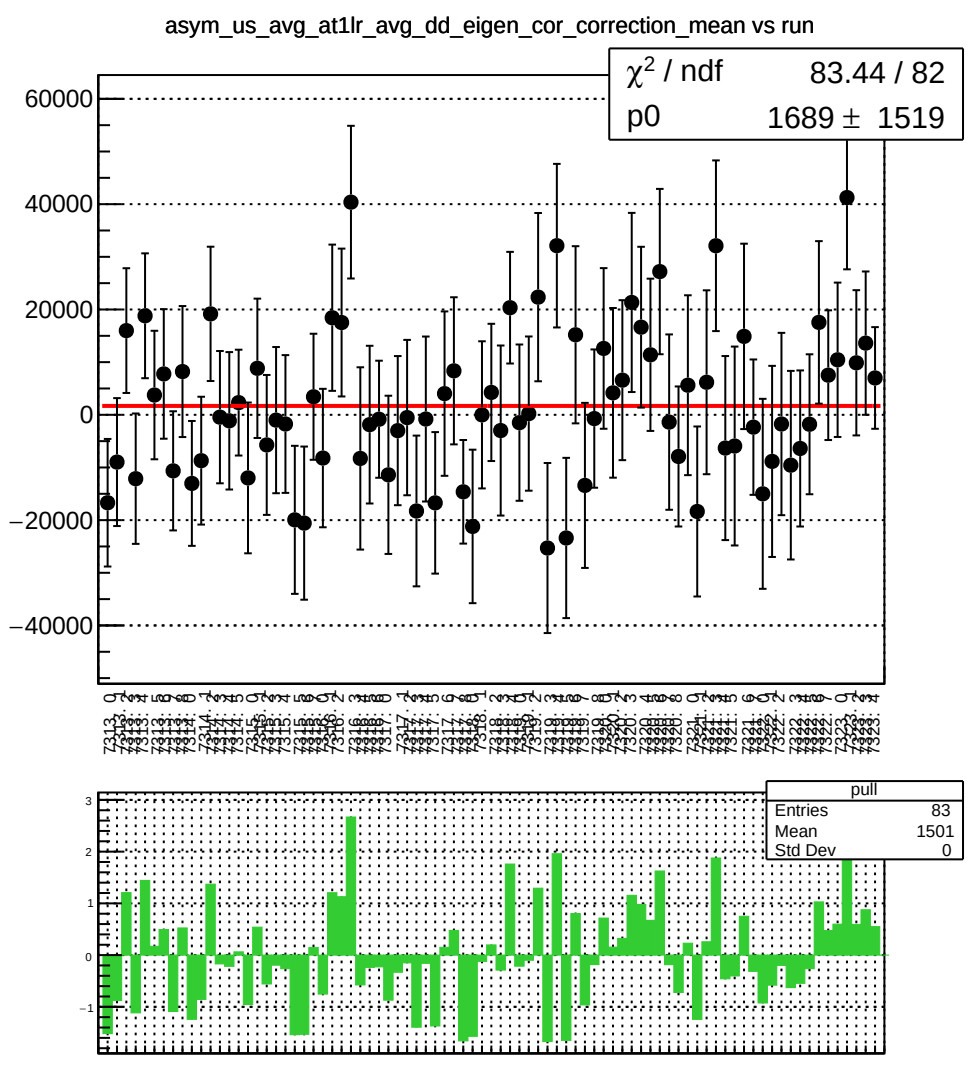

pull1D
Entries 83
Mean 0.003358
Std Dev 1.003

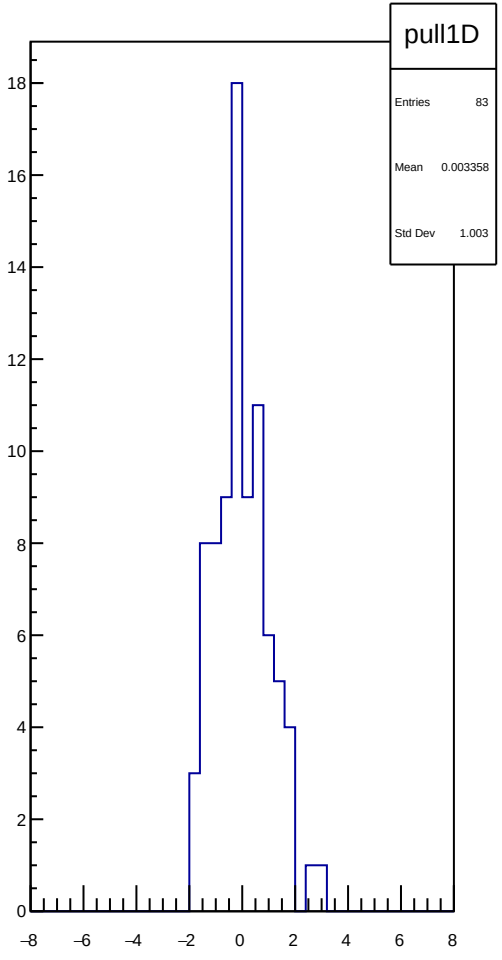

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.291e+04 / 82
p0 1354 ± 1.074
1800
1700
1600
1500
1400
1300
1200
1100
1000

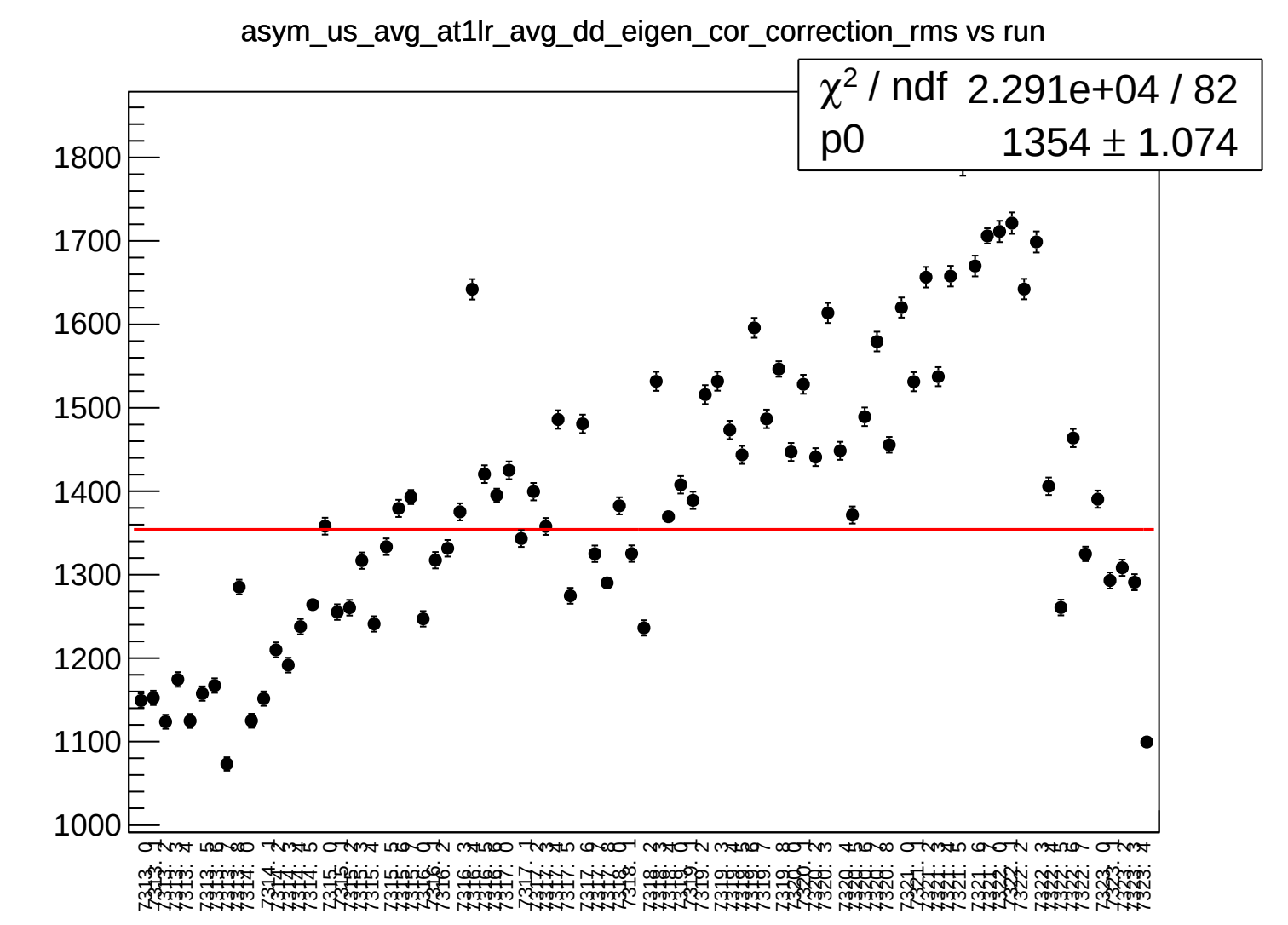

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.84 / 82
p0 2308 ± 1933
pull
Entries 83
Mean −505.7
Std Dev 0

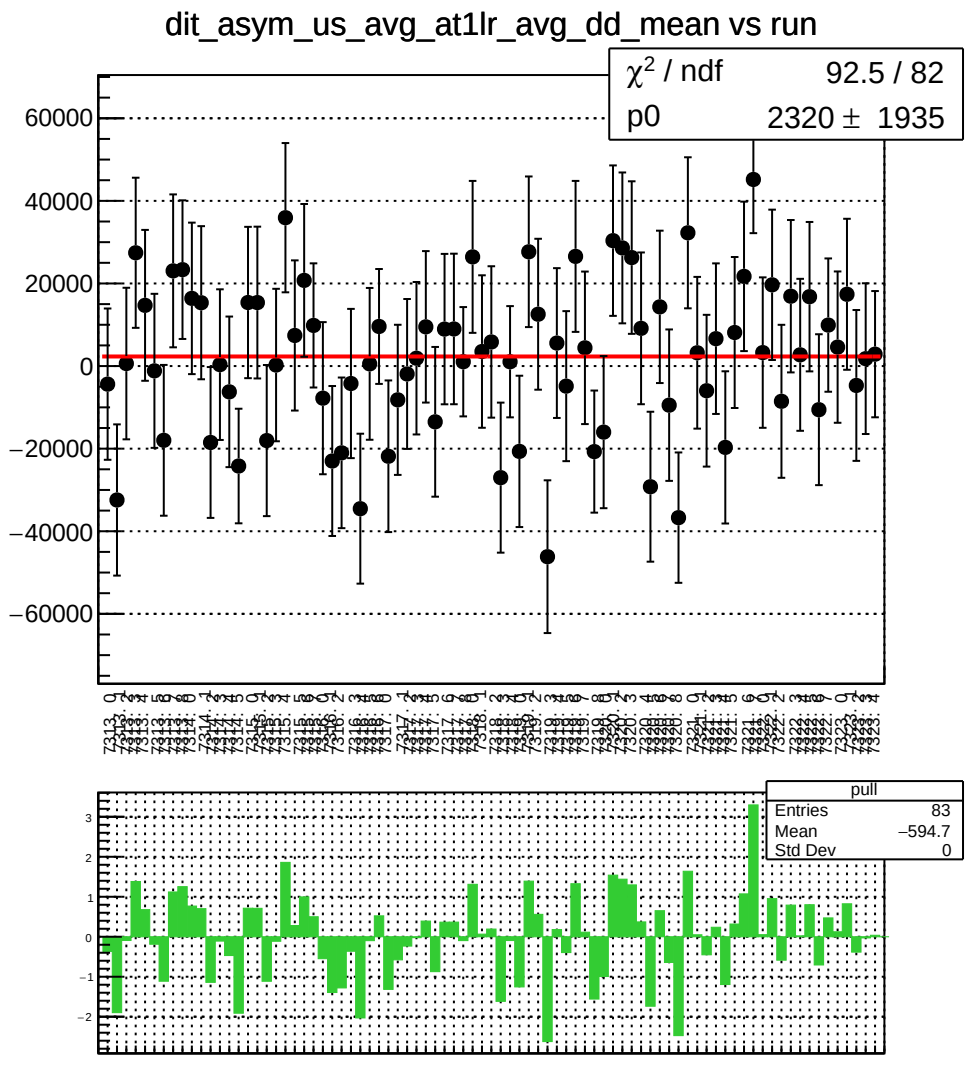

pull1D
Entries 83
Mean −0.004945
Std Dev 1.063

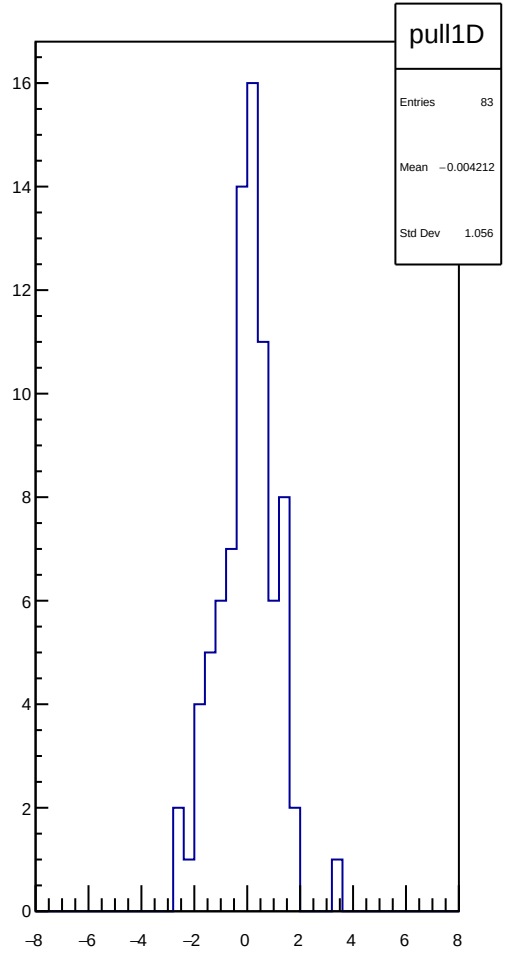

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 65.12 / 82
p0 1735 ± 1.367
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

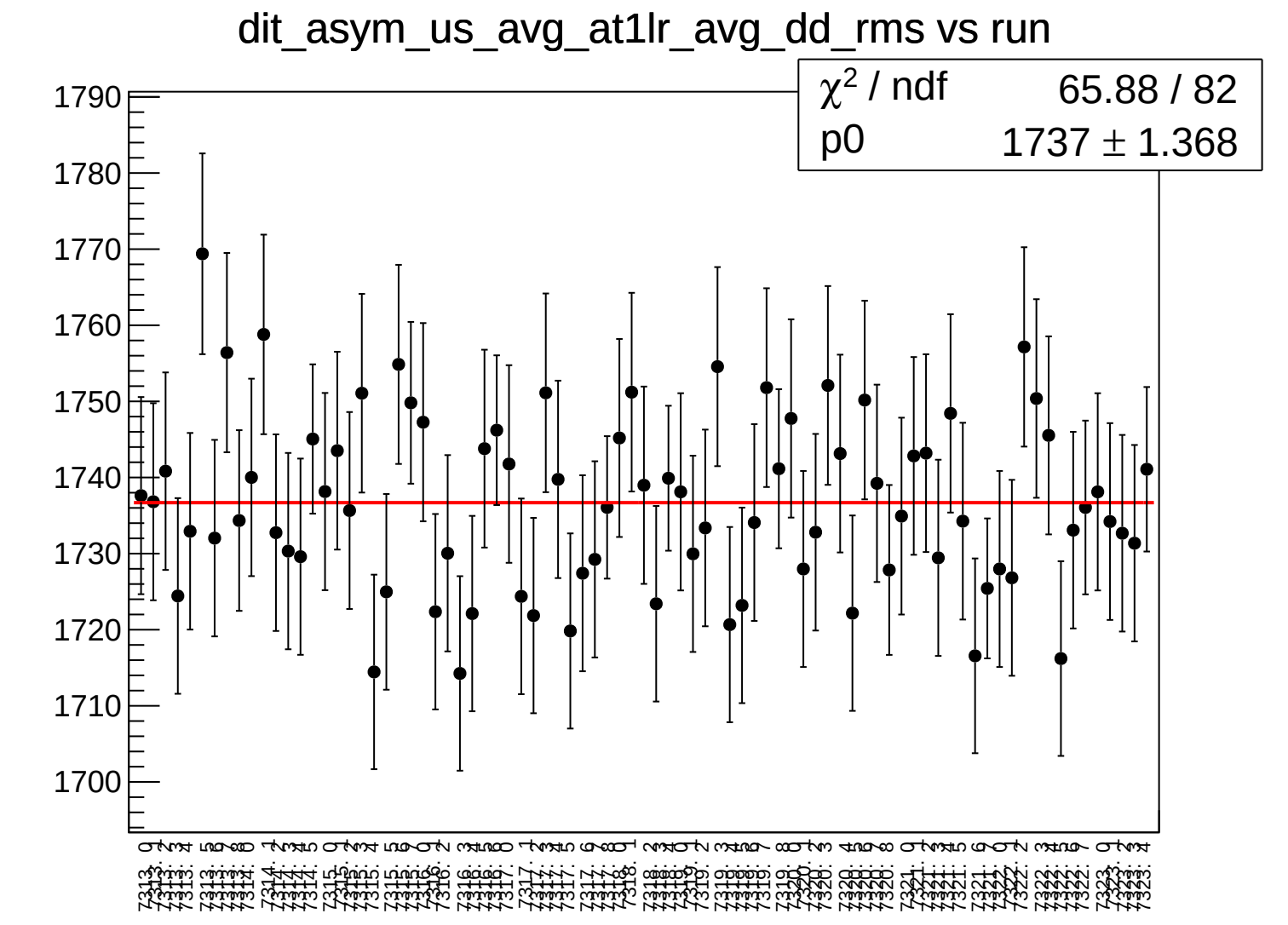

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.44 / 82
p0 1689 ± 1519
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1501
Std Dev 0
3
2
1
0
−1

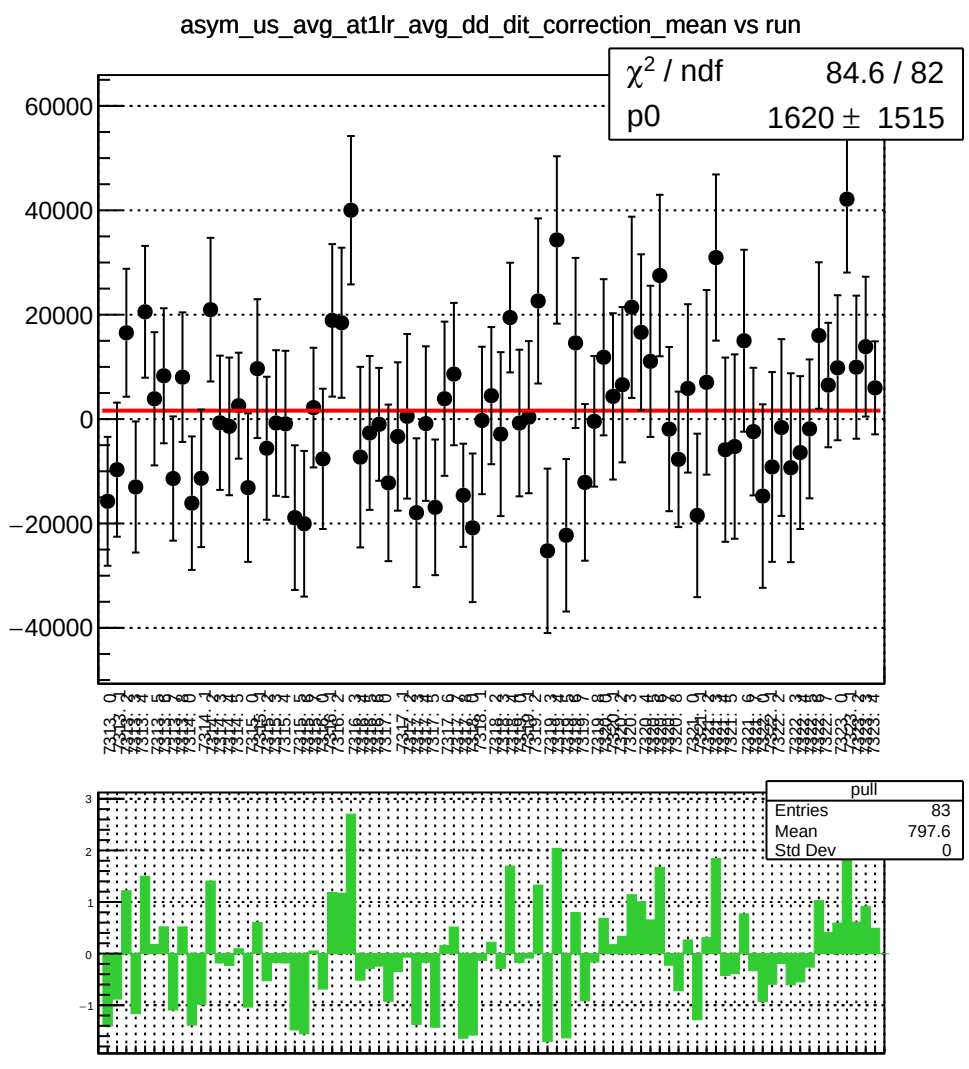

pull1D
Entries 83
Mean 0.003358
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

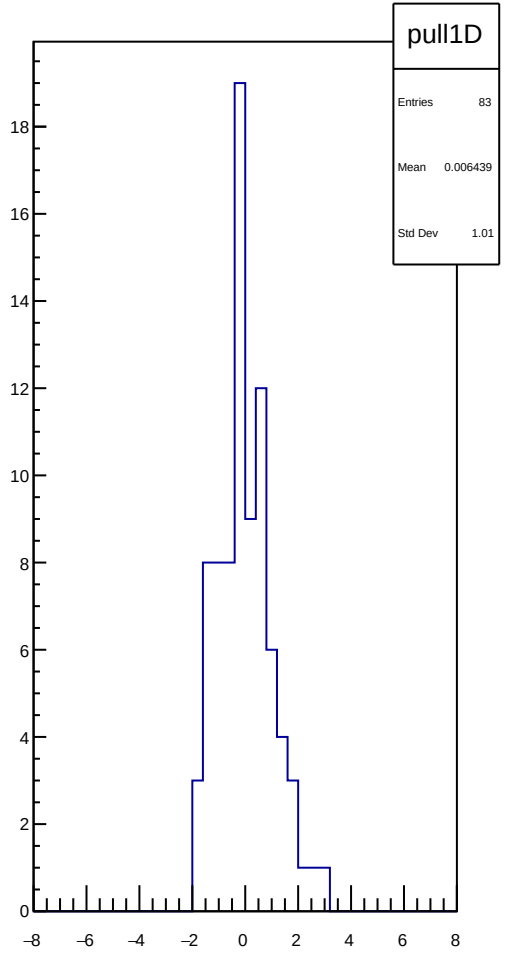

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.291e+04 / 82
p0 1354 ± 1.074
1800
1700
1600
1500
1400
1300
1200
1100
1000

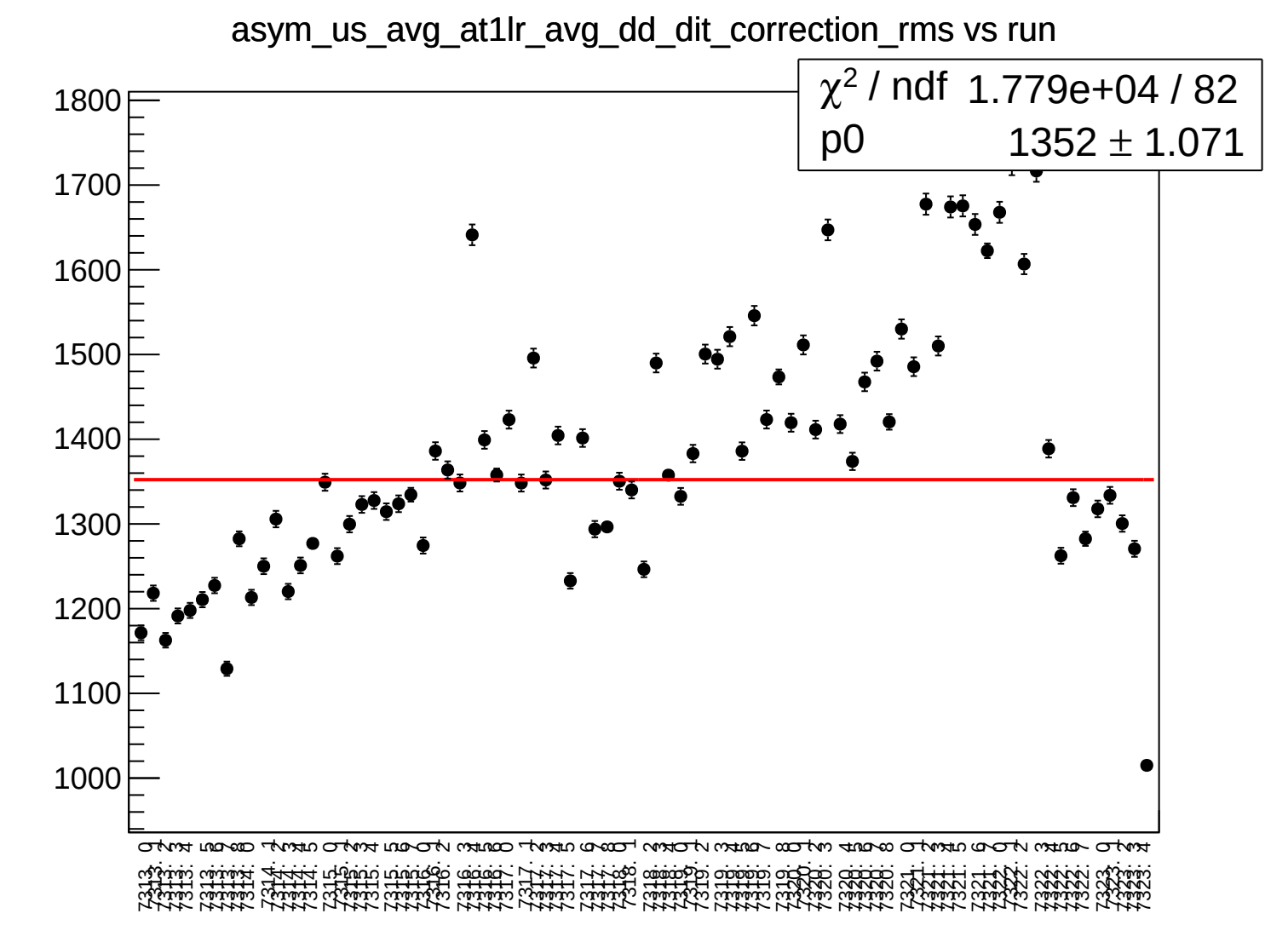

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.5 / 82
p0 2320 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −594.7
Std Dev 0
3
2
1
0
−1
−2

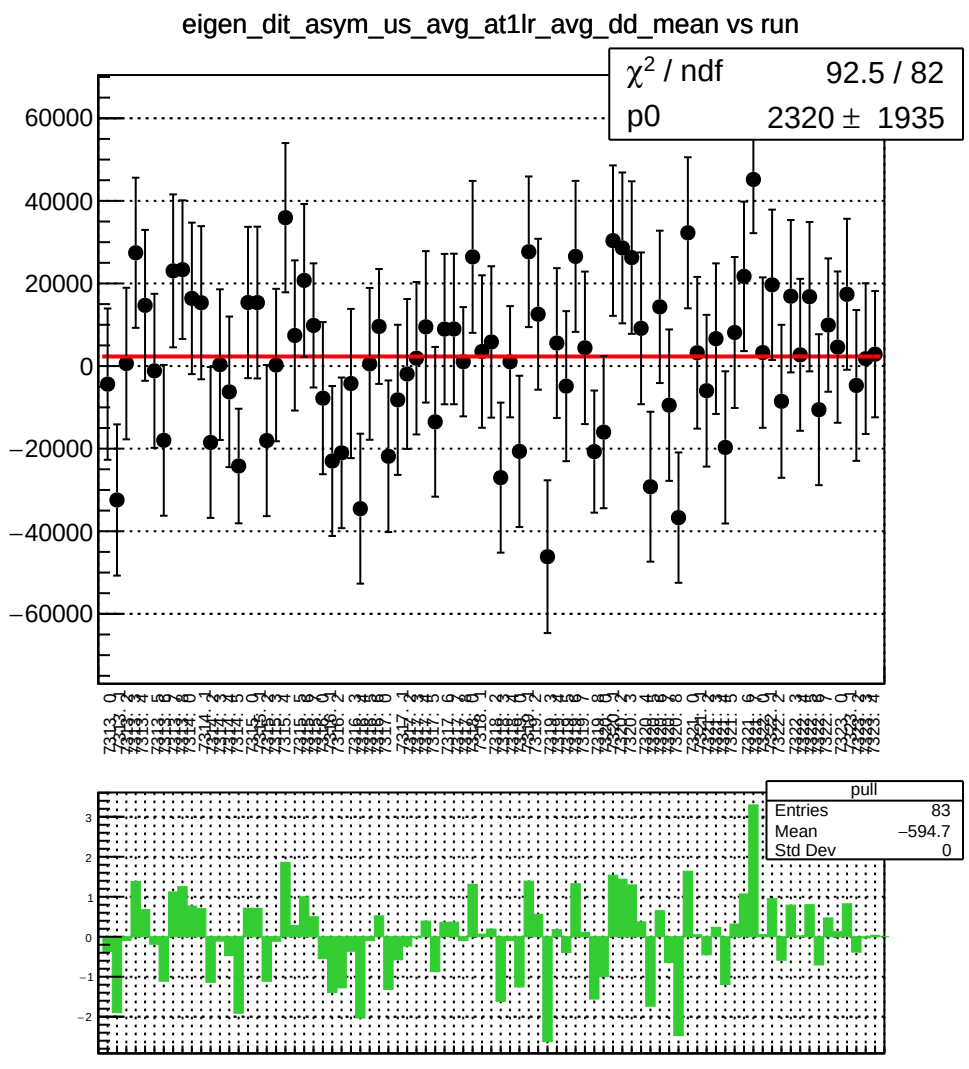

pull1D
Entries 83
Mean −0.004212
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

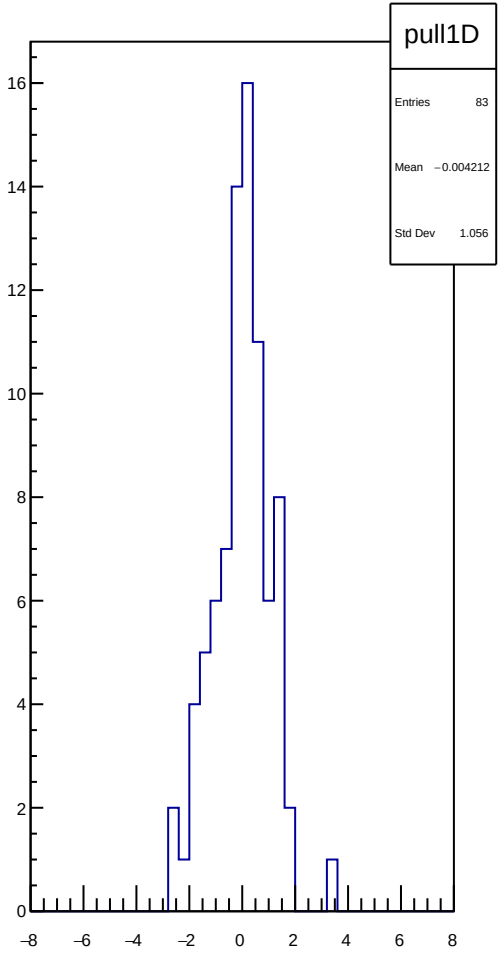

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 65.88 / 82
p0 1737 ± 1.368
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700

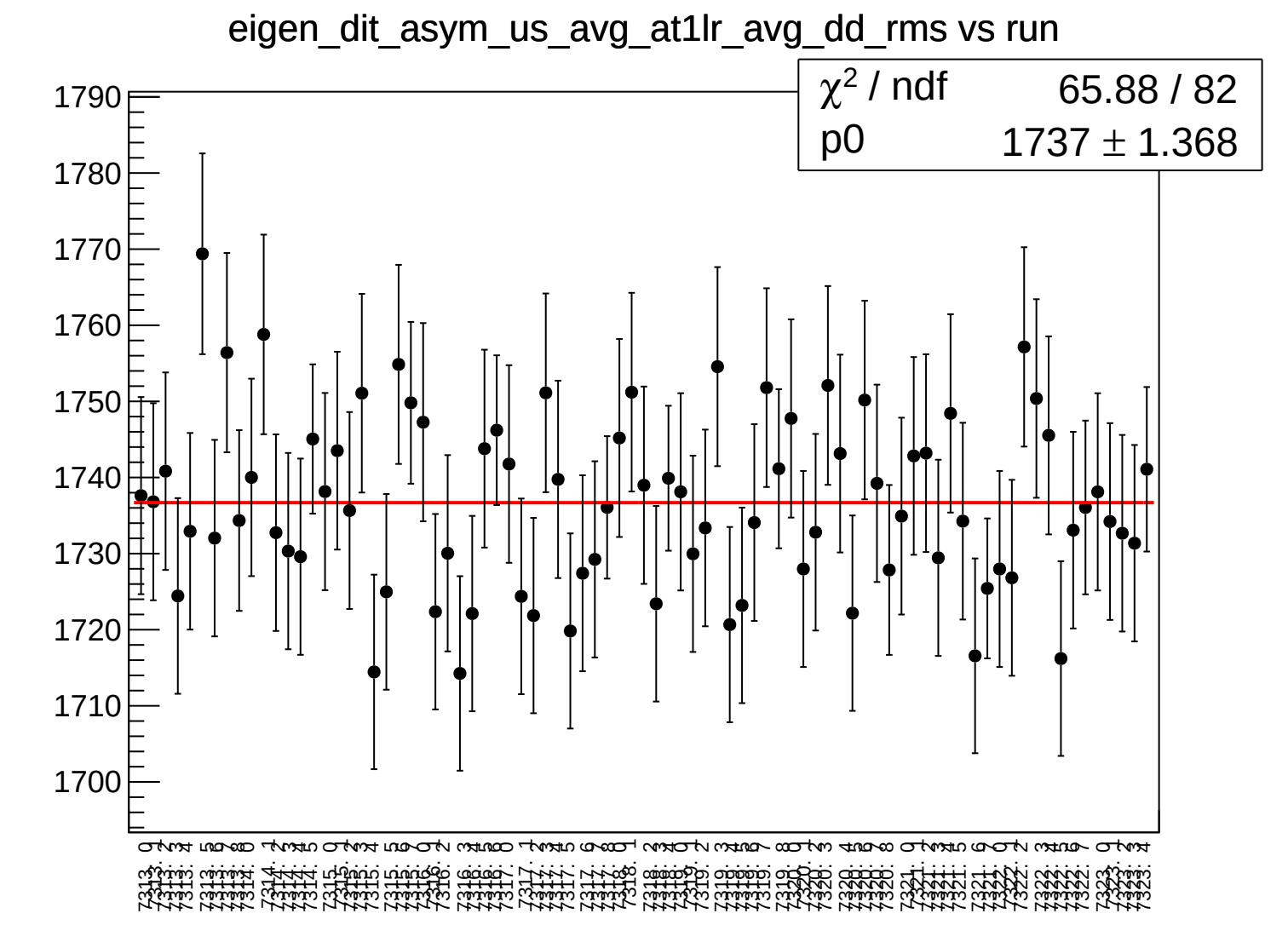

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 84.6 / 82
p0 1620 ± 1515
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 797.6
Std Dev 0
3
2
1
0
−1

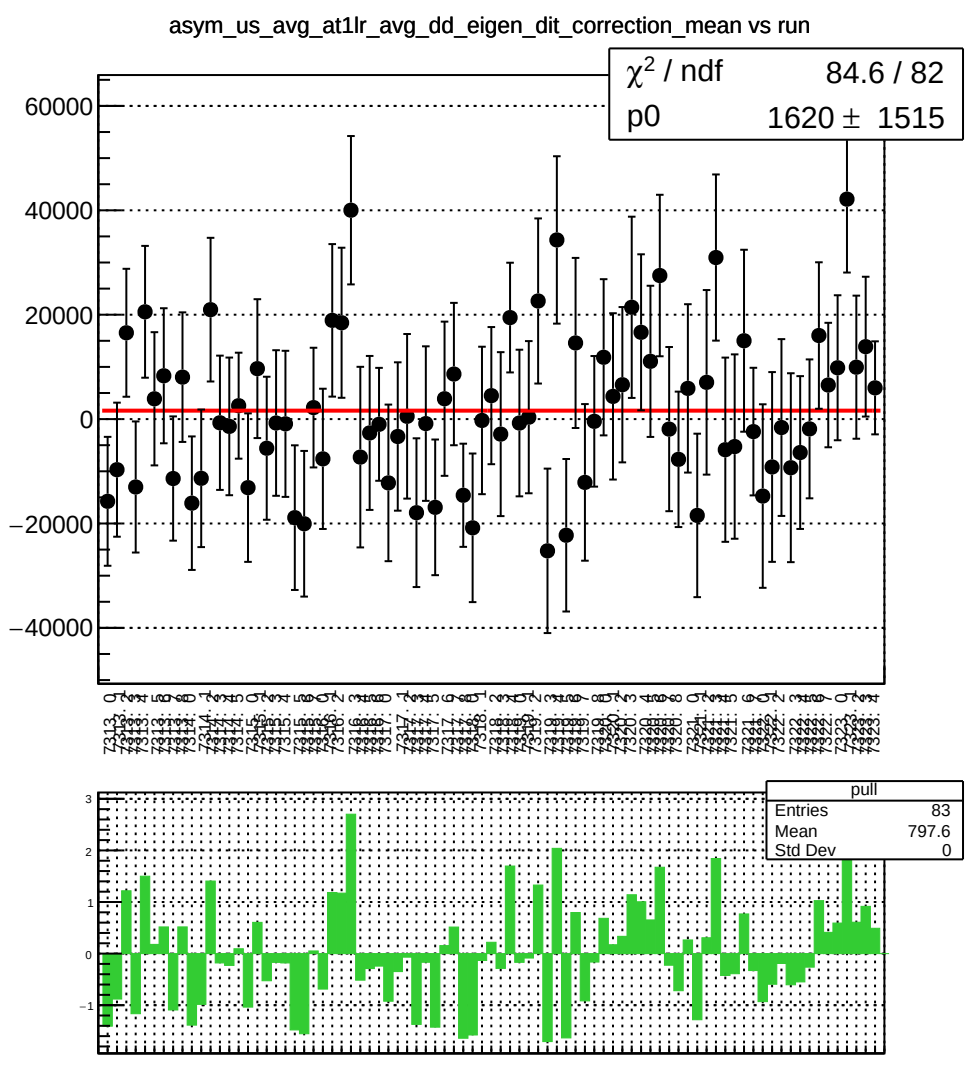

pull1D
Entries 83
Mean 0.006439
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

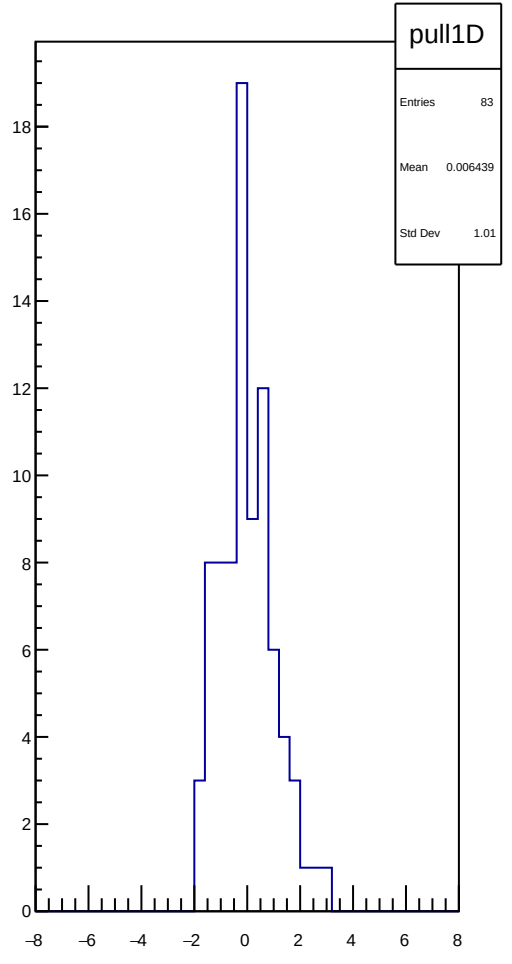

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.779e+04 / 82
p0 1352 ± 1.071
1800
1700
1600
1500
1400
1300
1200
1100
1000

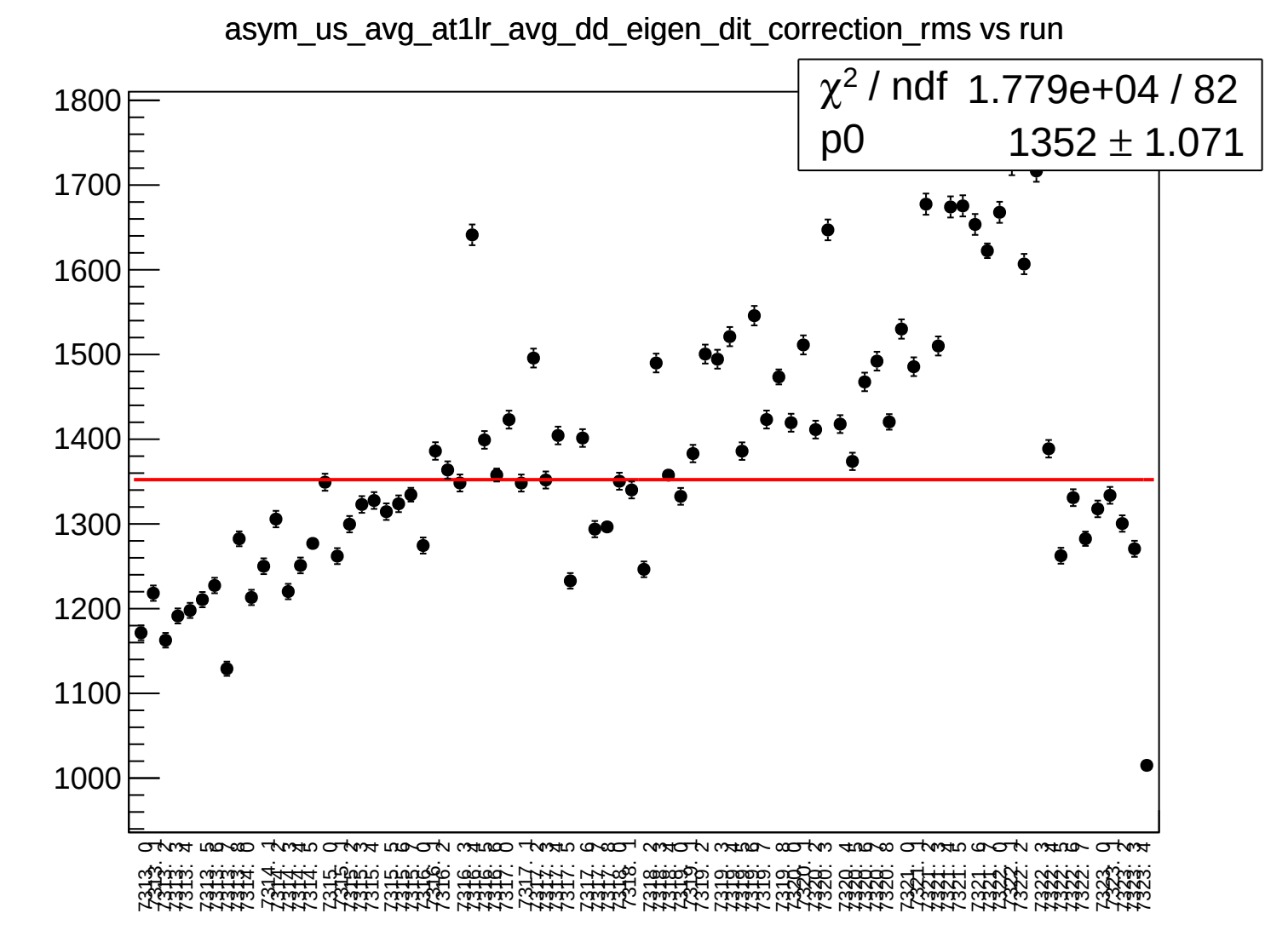

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 92.5 / 82
p0 2320 ± 1935
pull
Entries 83
Mean −594.7
Std Dev 0

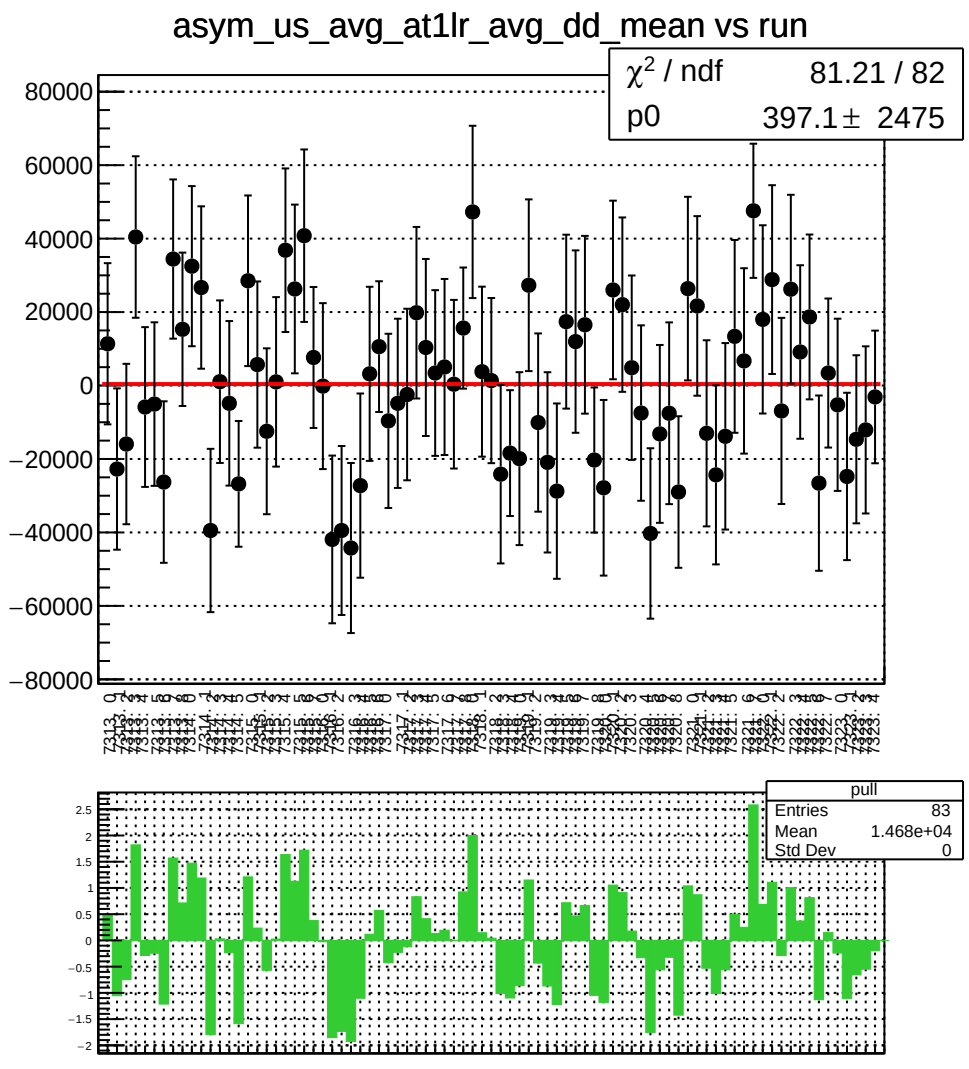

pull1D
Entries 83
Mean −0.004212
Std Dev 1.056

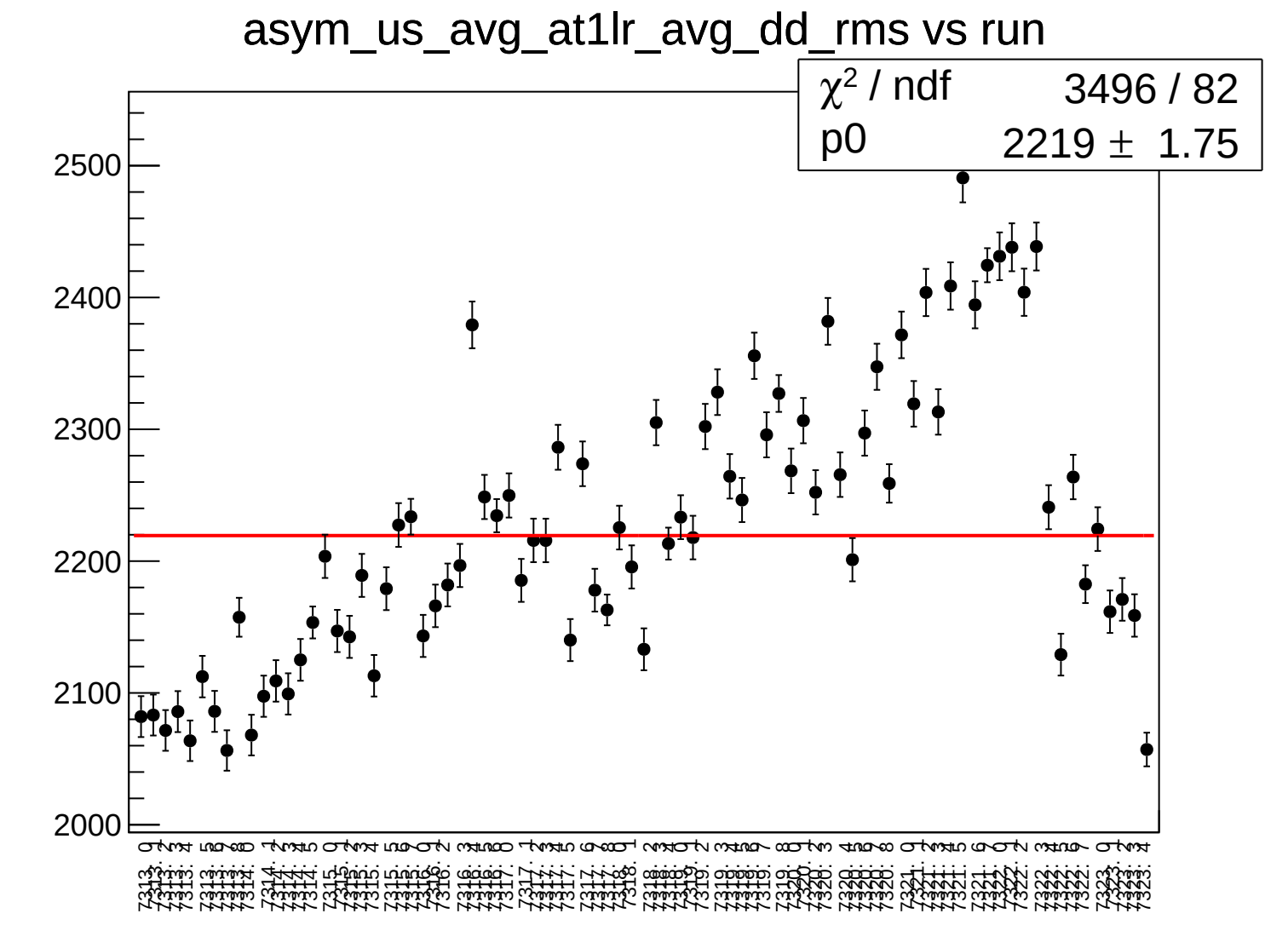

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 65.88 / 82
p0 1737 ± 1.368
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700

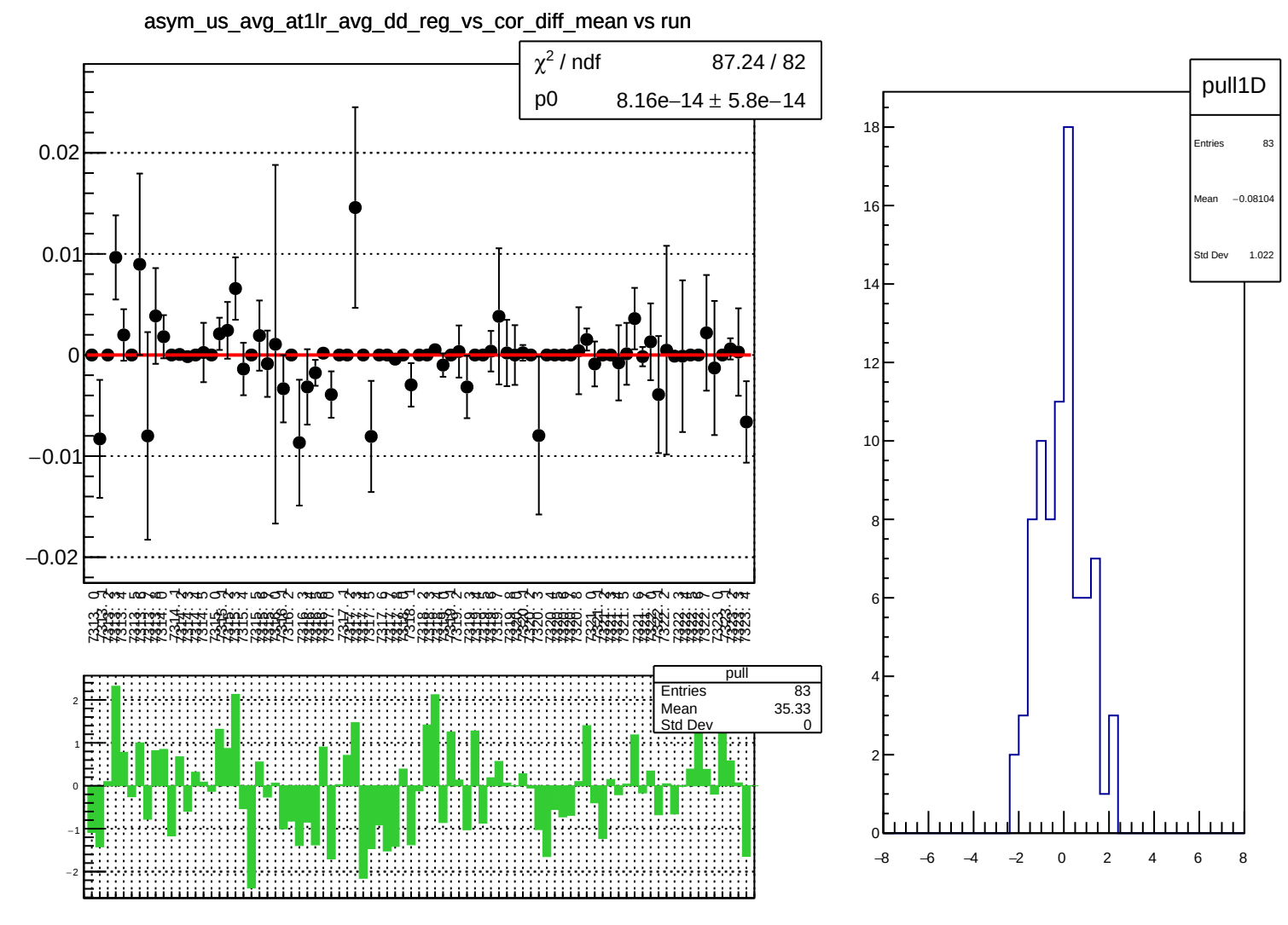

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.6 / 82
p0 1620 ± 1515
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 797.6
Std Dev 0
3
2
1
0
−1

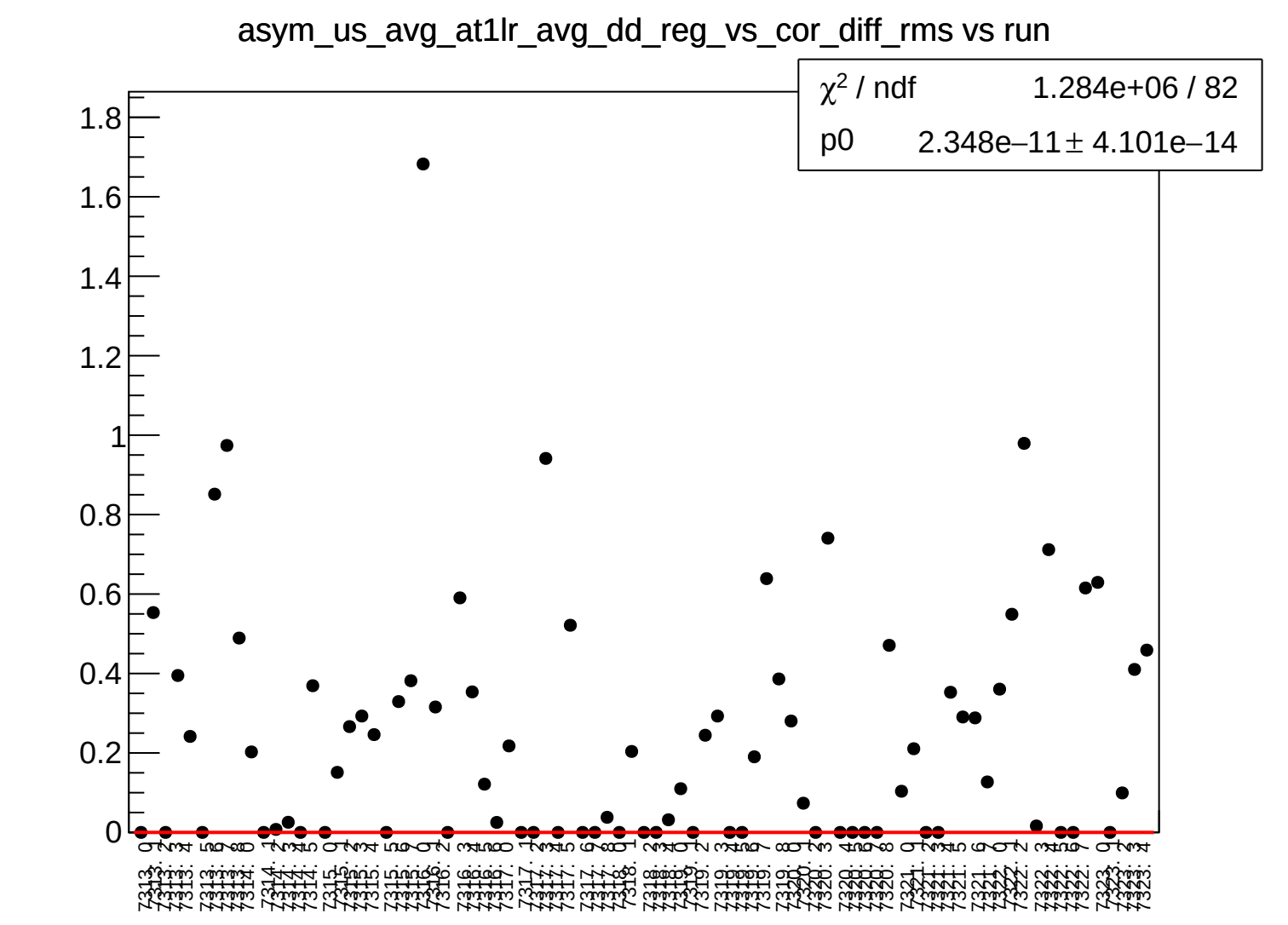

pull1D
Entries 83
Mean 0.006439
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

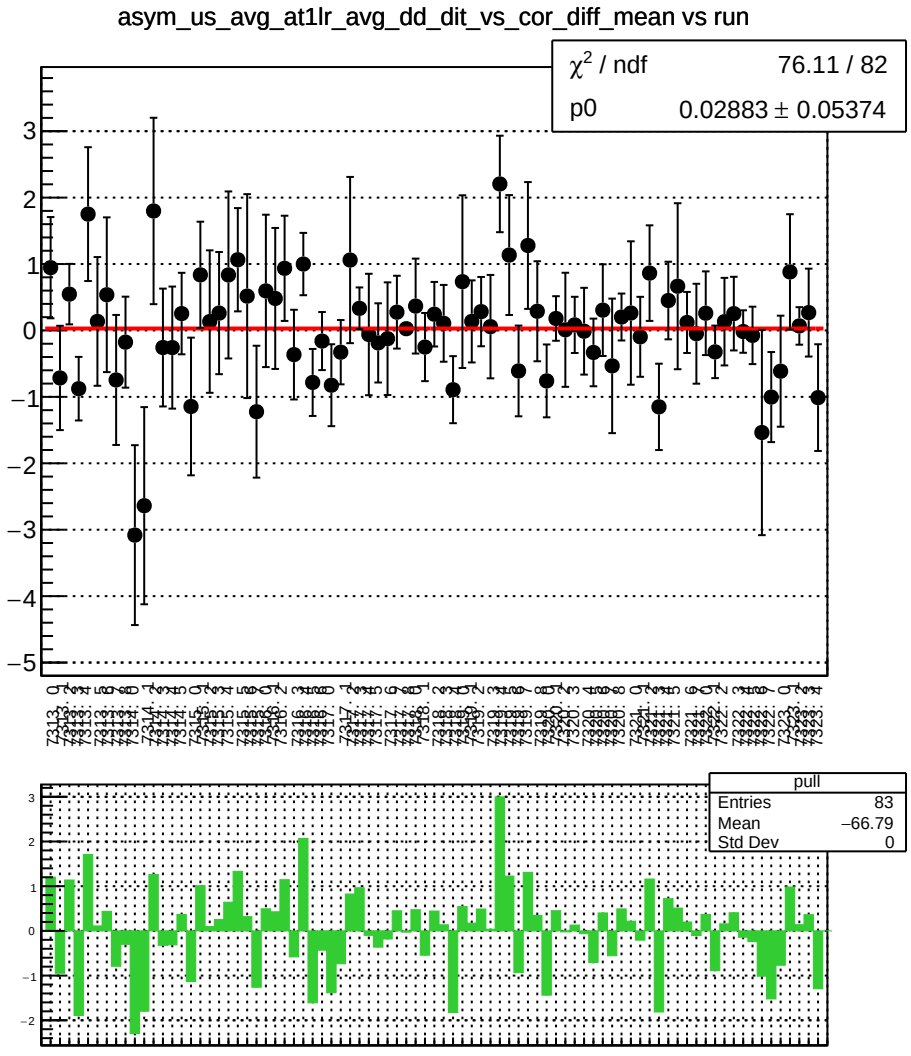

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.779e+04 / 82
p0 1352 ± 1.071
1800
1700
1600
1500
1400
1300
1200
1100
1000

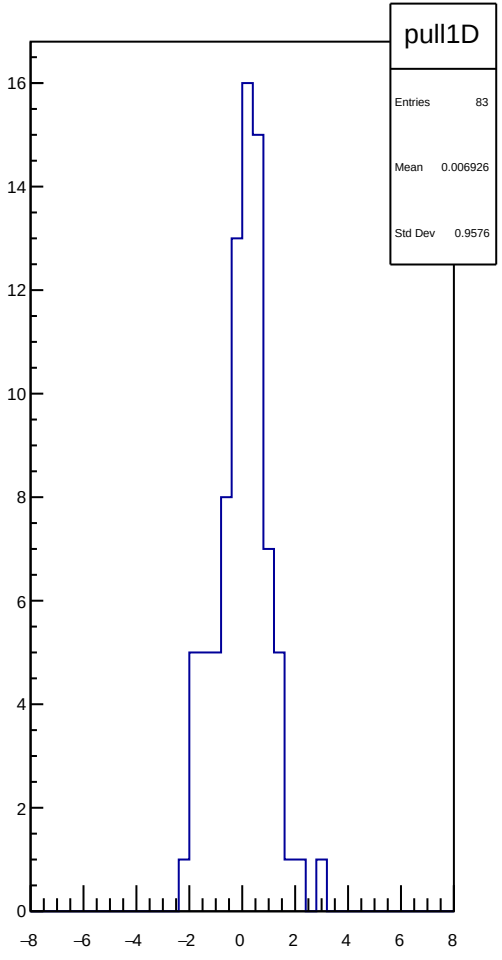

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 81.21 / 82
p0 397.1± 2475
pull
Entries 83
Mean 1.468e+04
Std Dev 0
pull1D
Entries 83
Mean −6.095e−05
Std Dev 0.9891

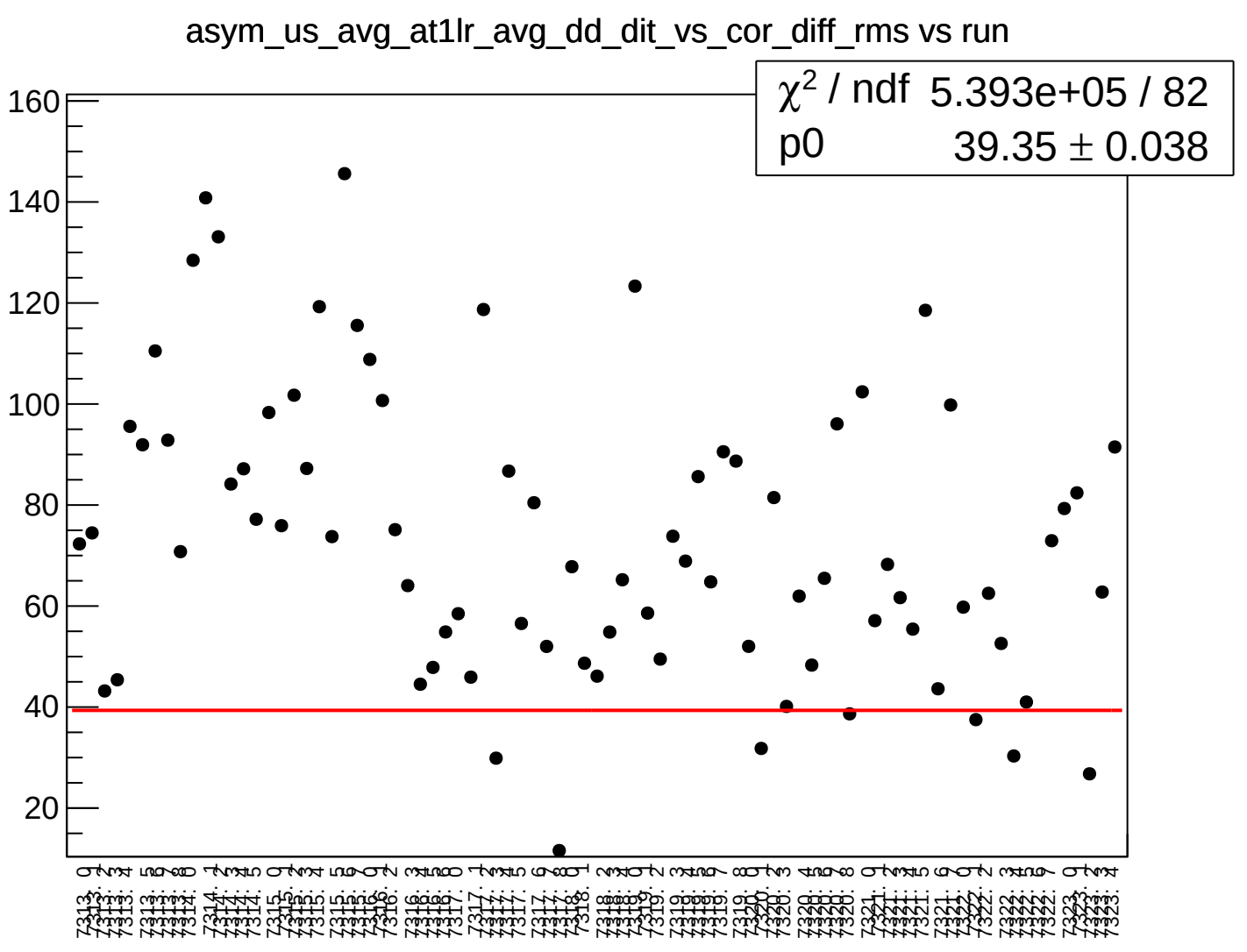

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 3496 / 82
p0 2219 ± 1.75
2500
2400
2300
2200
2100
2000

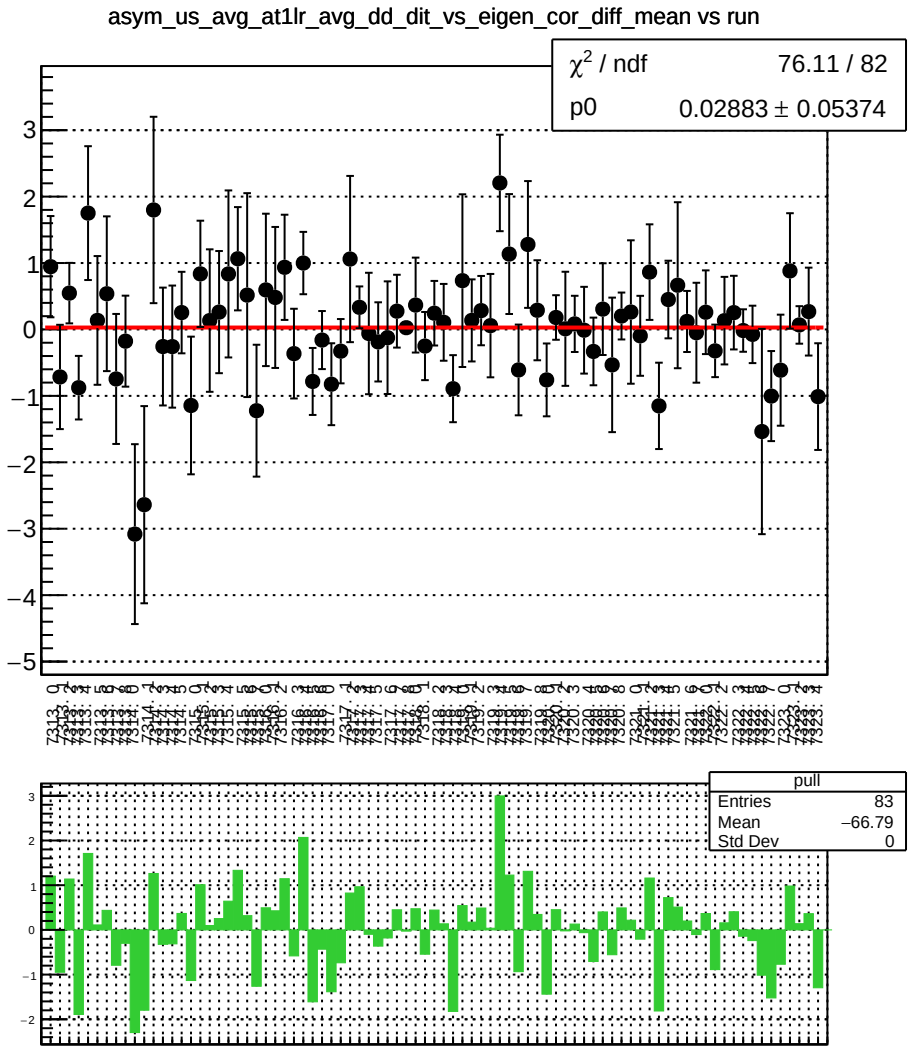

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.24 / 82
p0 8.16e−14 ± 5.8e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean 35.33
Std Dev 0
pull1D
Entries 83
Mean −0.08104
Std Dev 1.022

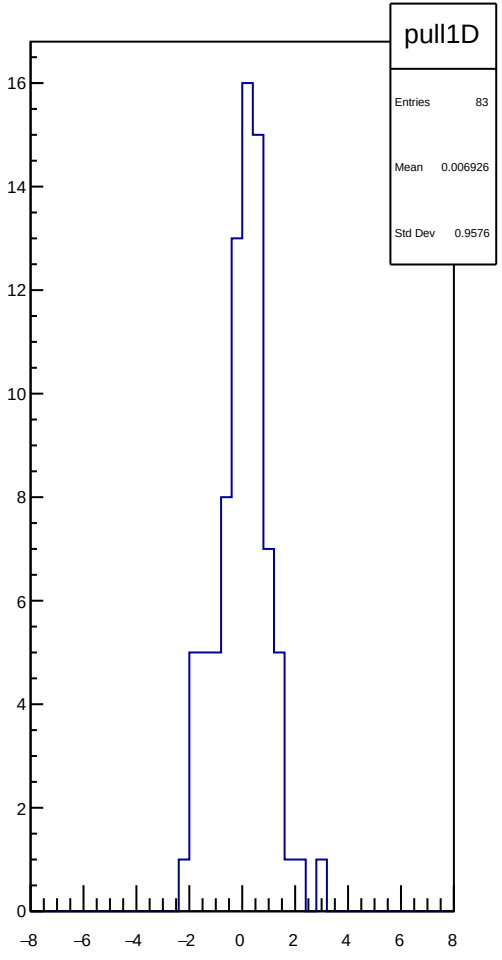

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.284e+06 / 82
p0 2.348e−11 ± 4.101e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

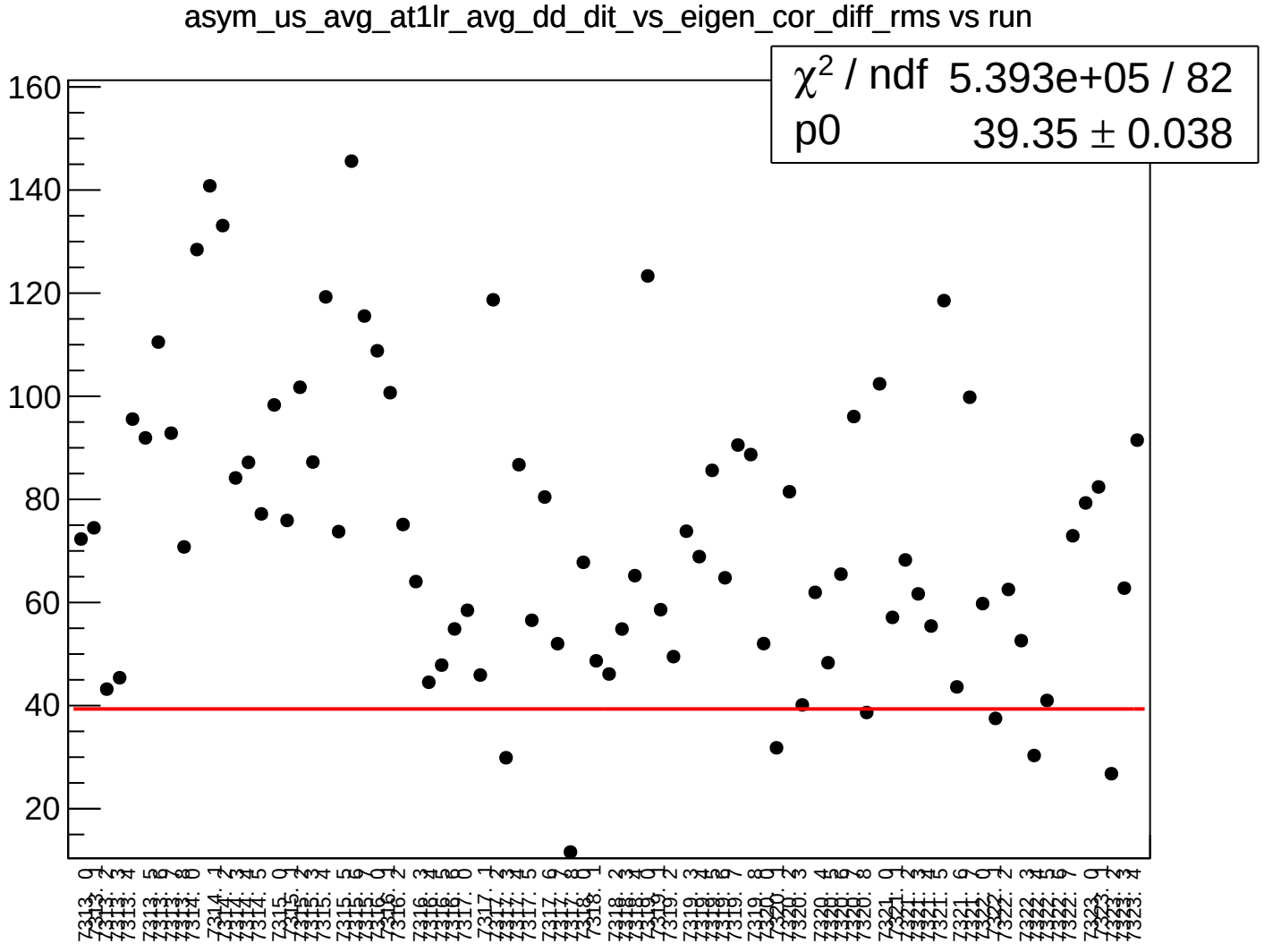

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.11 / 82
p0 0.02883 ± 0.05374
pull
Entries 83
Mean −66.79
Std Dev 0

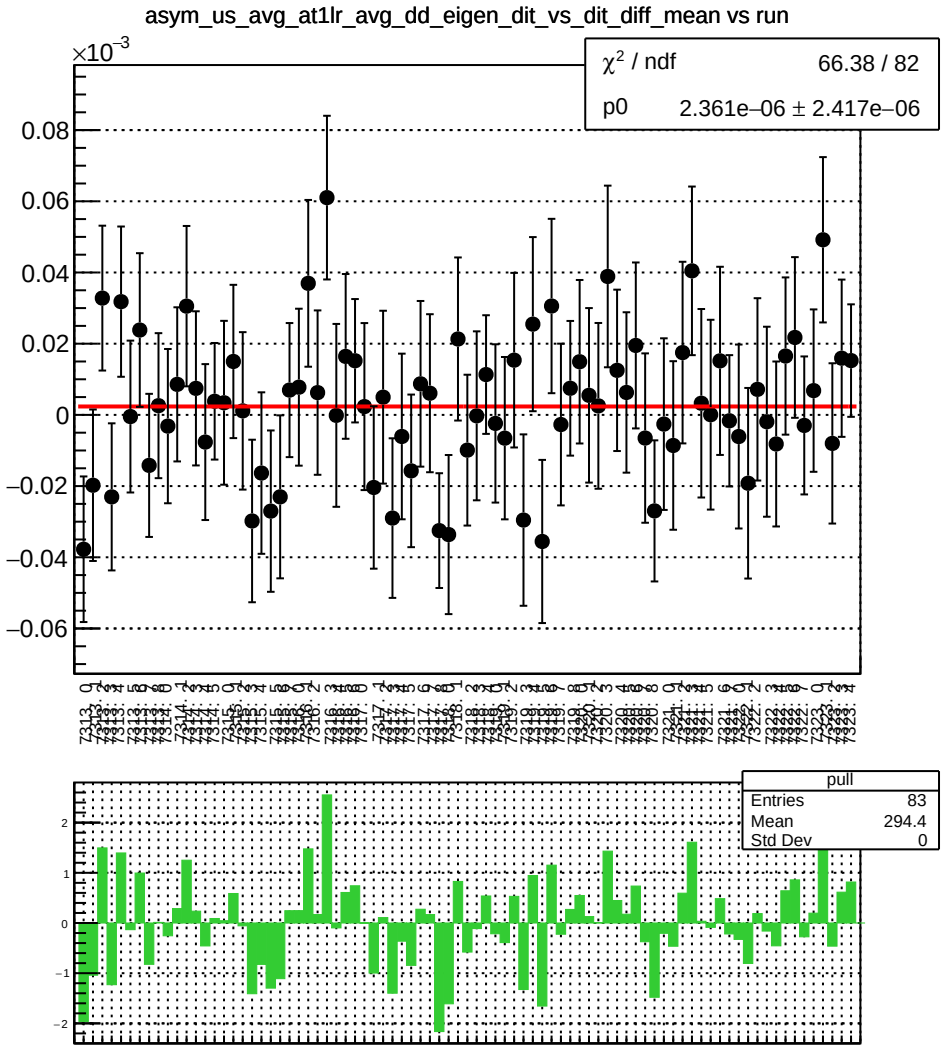

pull1D
Entries 83
Mean 0.006926
Std Dev 0.9576

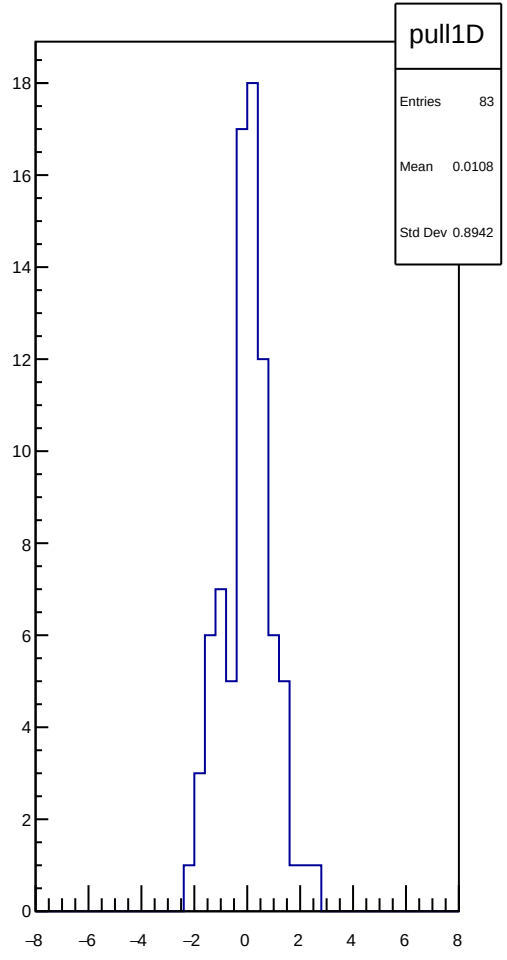

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.393e+05 / 82
p0 39.35 ± 0.038
160
140
120
100
80
60
40
20

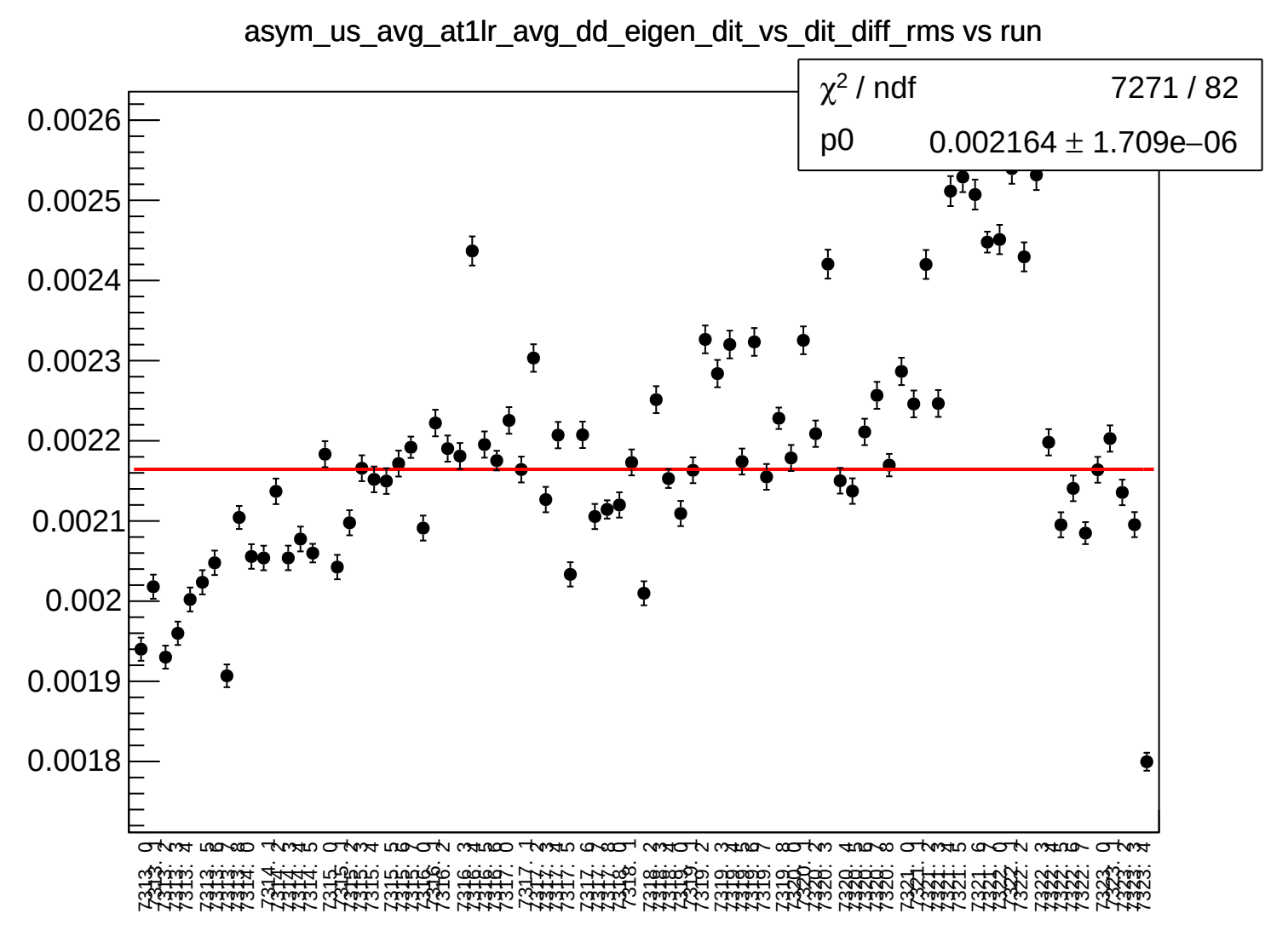

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.11 / 82
p0 0.02883 ± 0.05374
pull
Entries 83
Mean −66.79
Std Dev 0

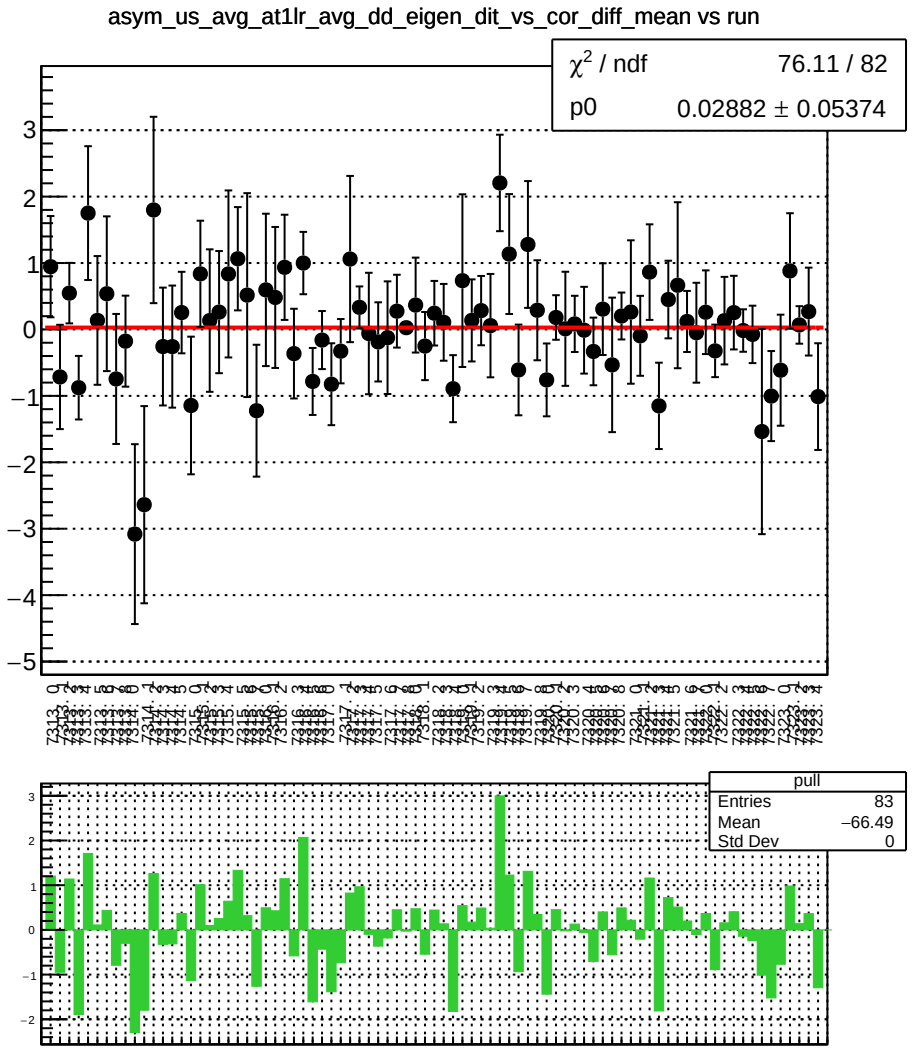

pull1D
Entries 83
Mean 0.006926
Std Dev 0.9576

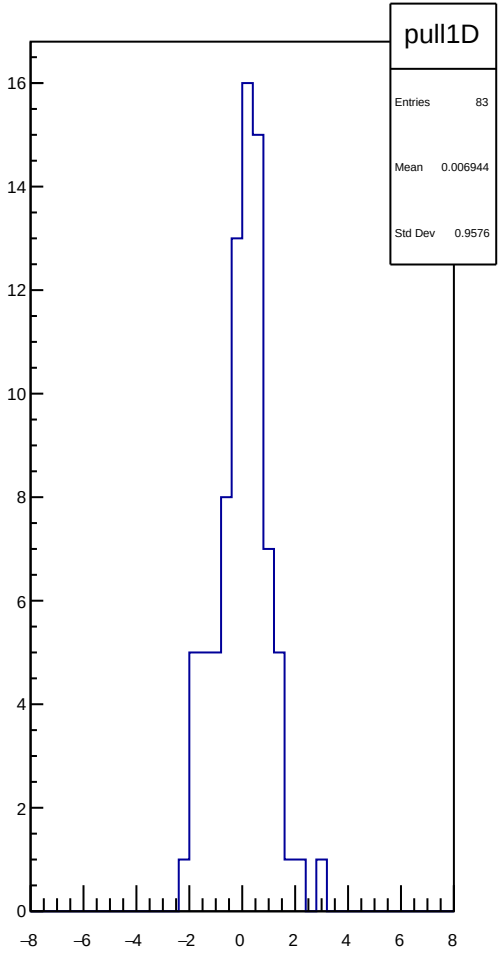

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.393e+05 / 82
p0 39.35 ± 0.038
160
140
120
100
80
60
40
20

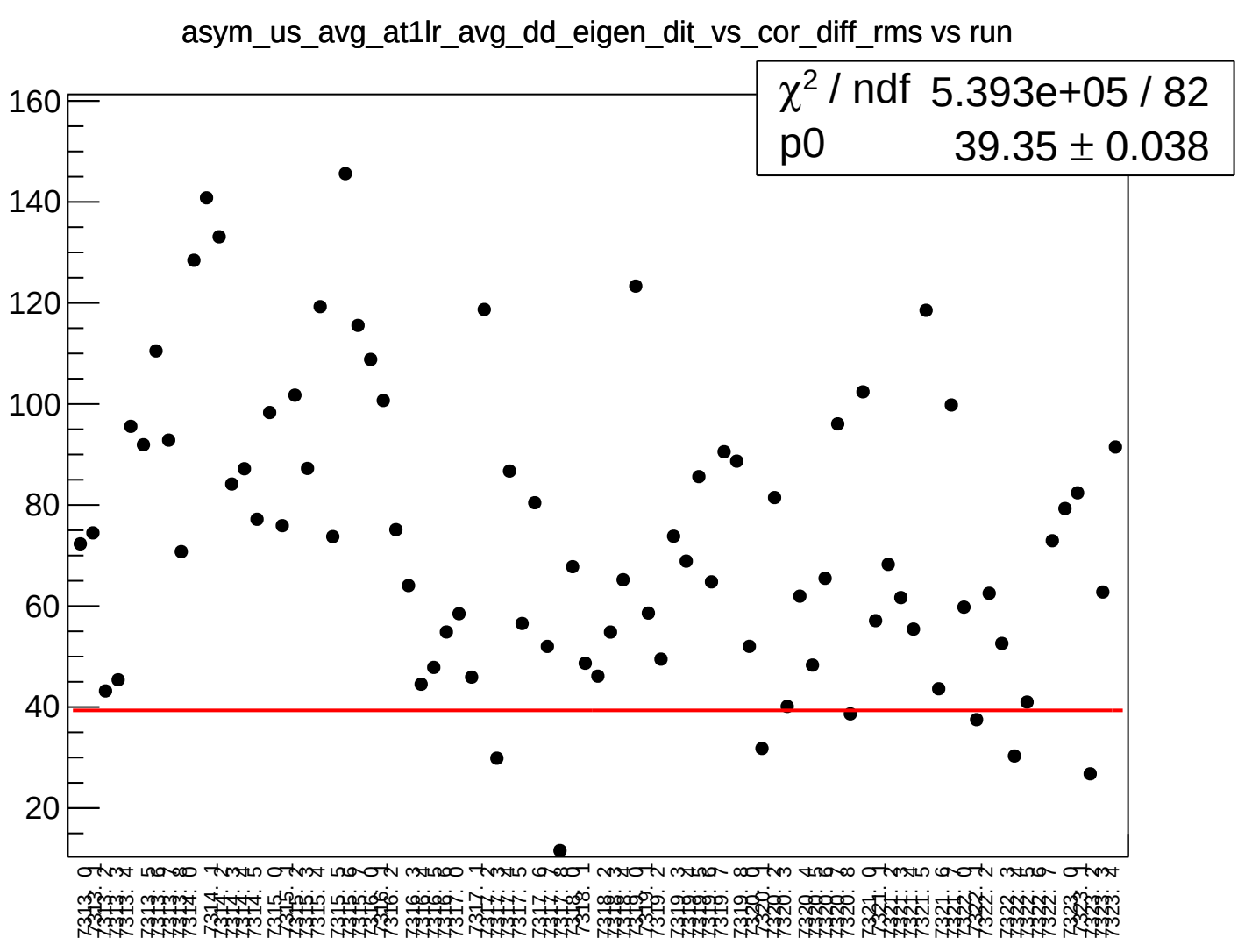

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.38 / 82
p0 2.361e−06 ± 2.417e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean 294.4
Std Dev 0
2
1
0
−1
−2

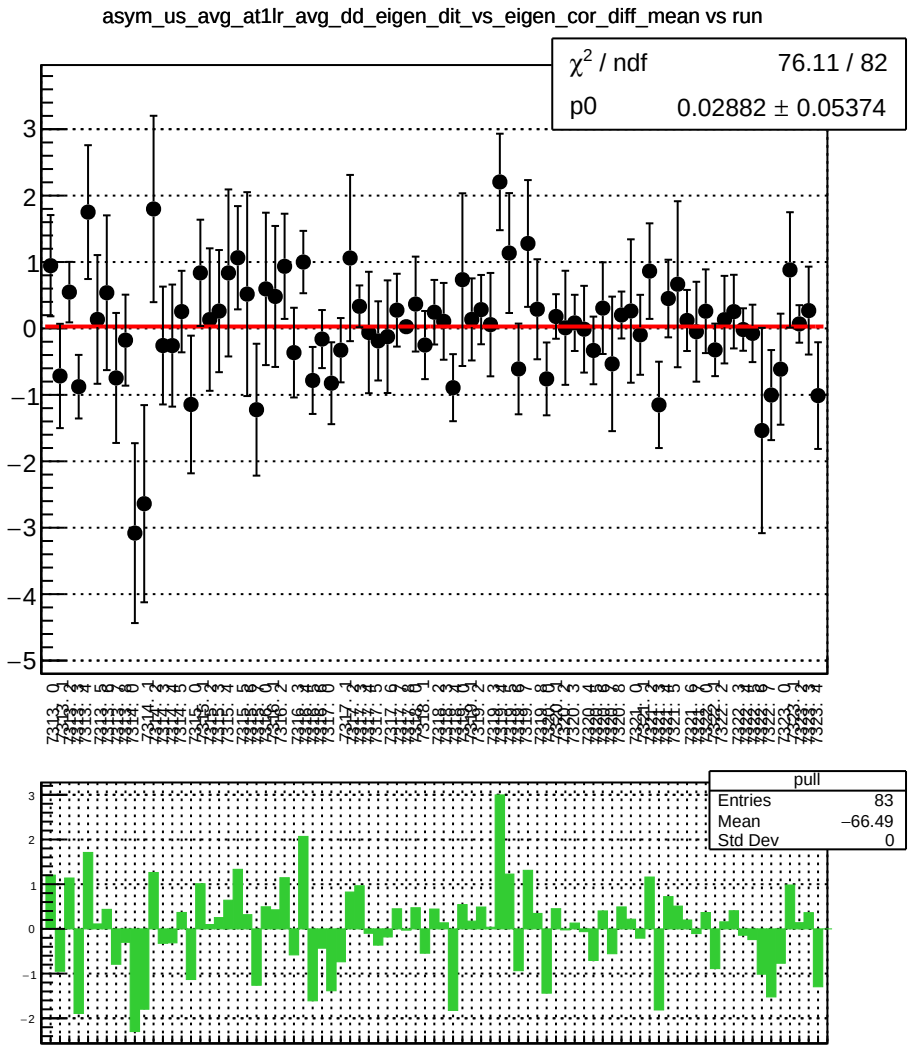

pull1D
Entries 83
Mean 0.0108
Std Dev 0.8942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

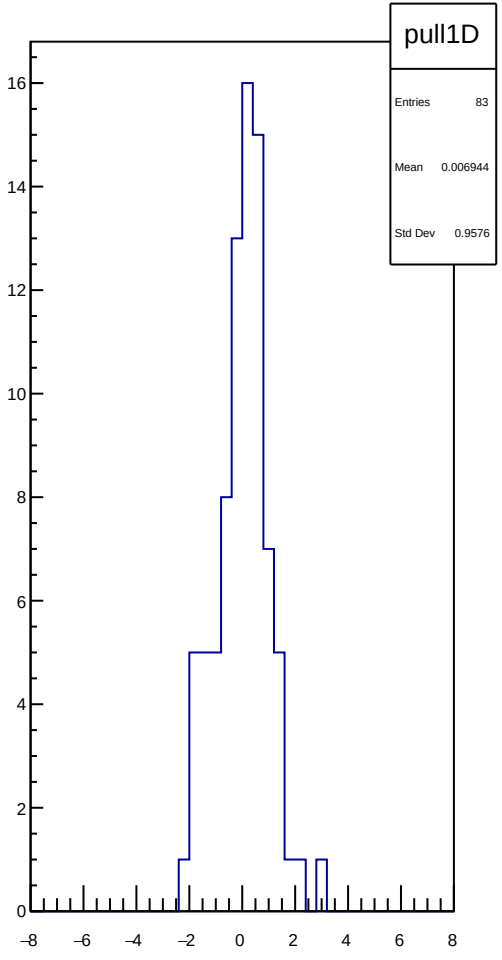

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7271 / 82
p0 0.002164 ± 1.709e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

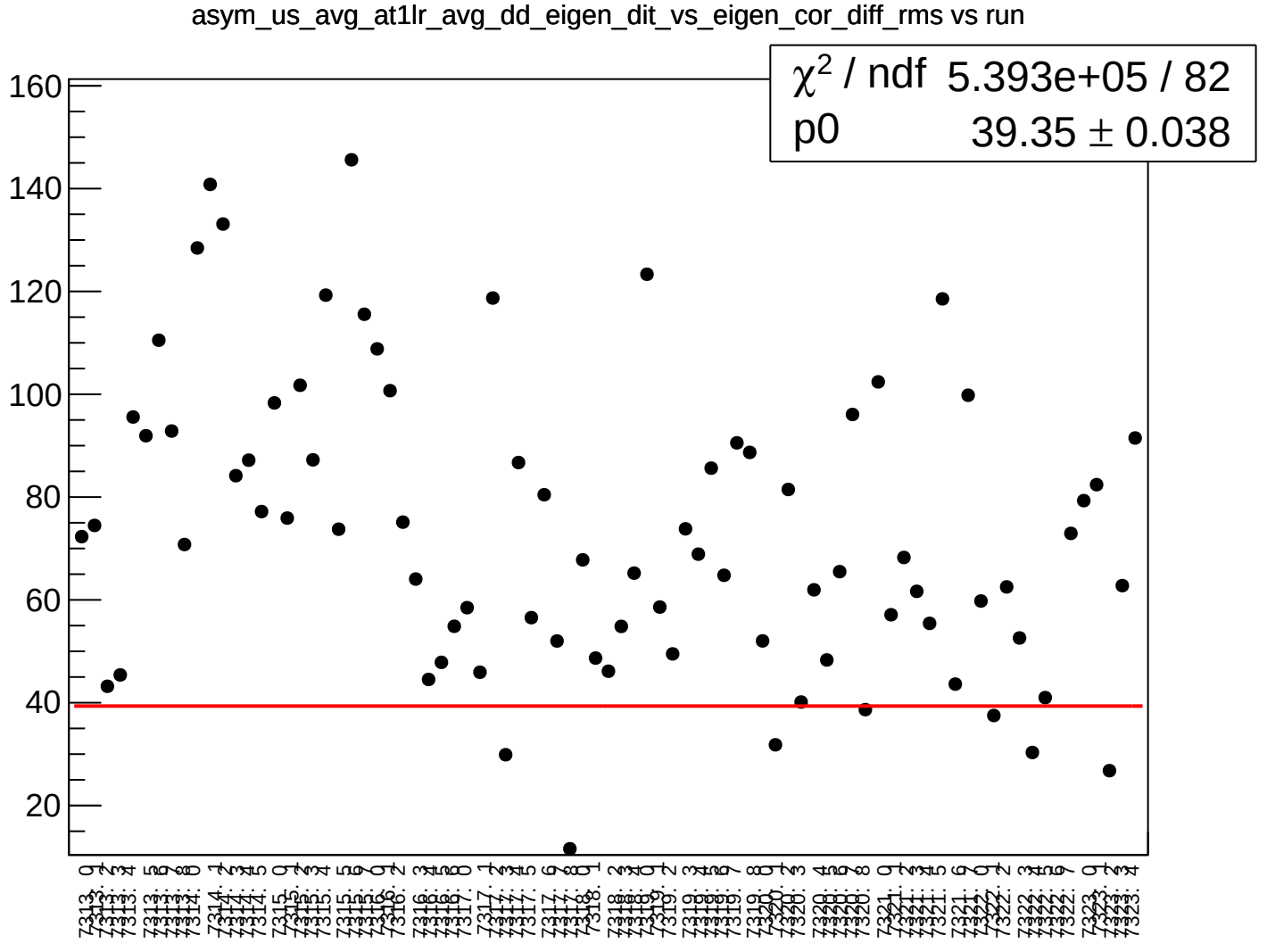

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.11 / 82
p0 0.02882 ± 0.05374
pull
Entries 83
Mean −66.49
Std Dev 0

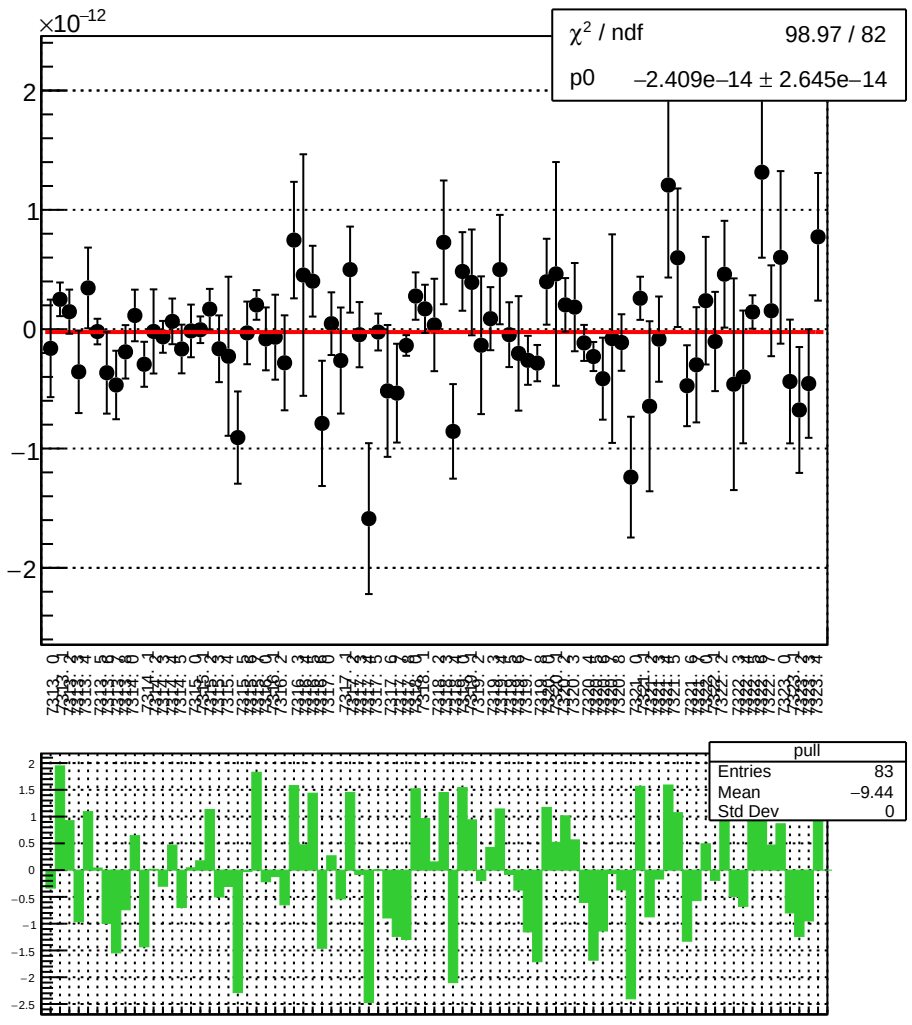

pull1D
Entries 83
Mean 0.006944
Std Dev 0.9576

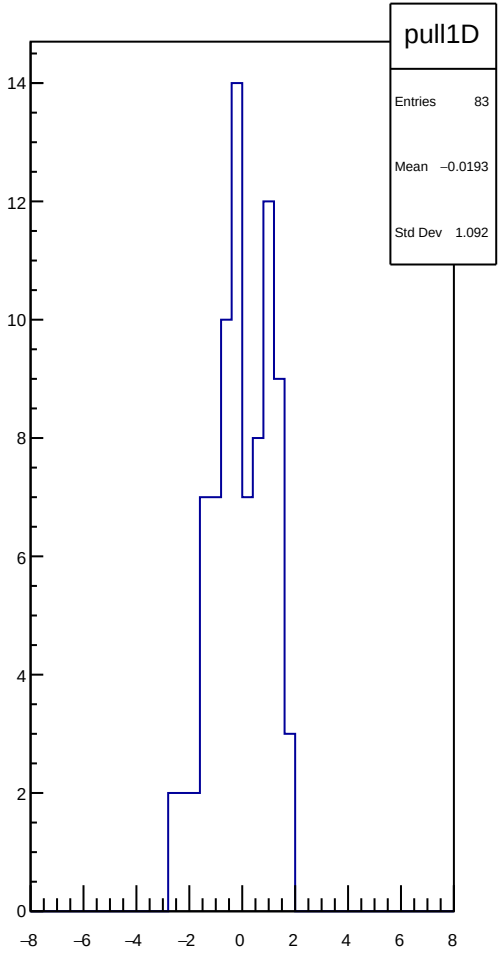

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.393e+05 / 82
p0 39.35 ± 0.038
160
140
120
100
80
60
40
20

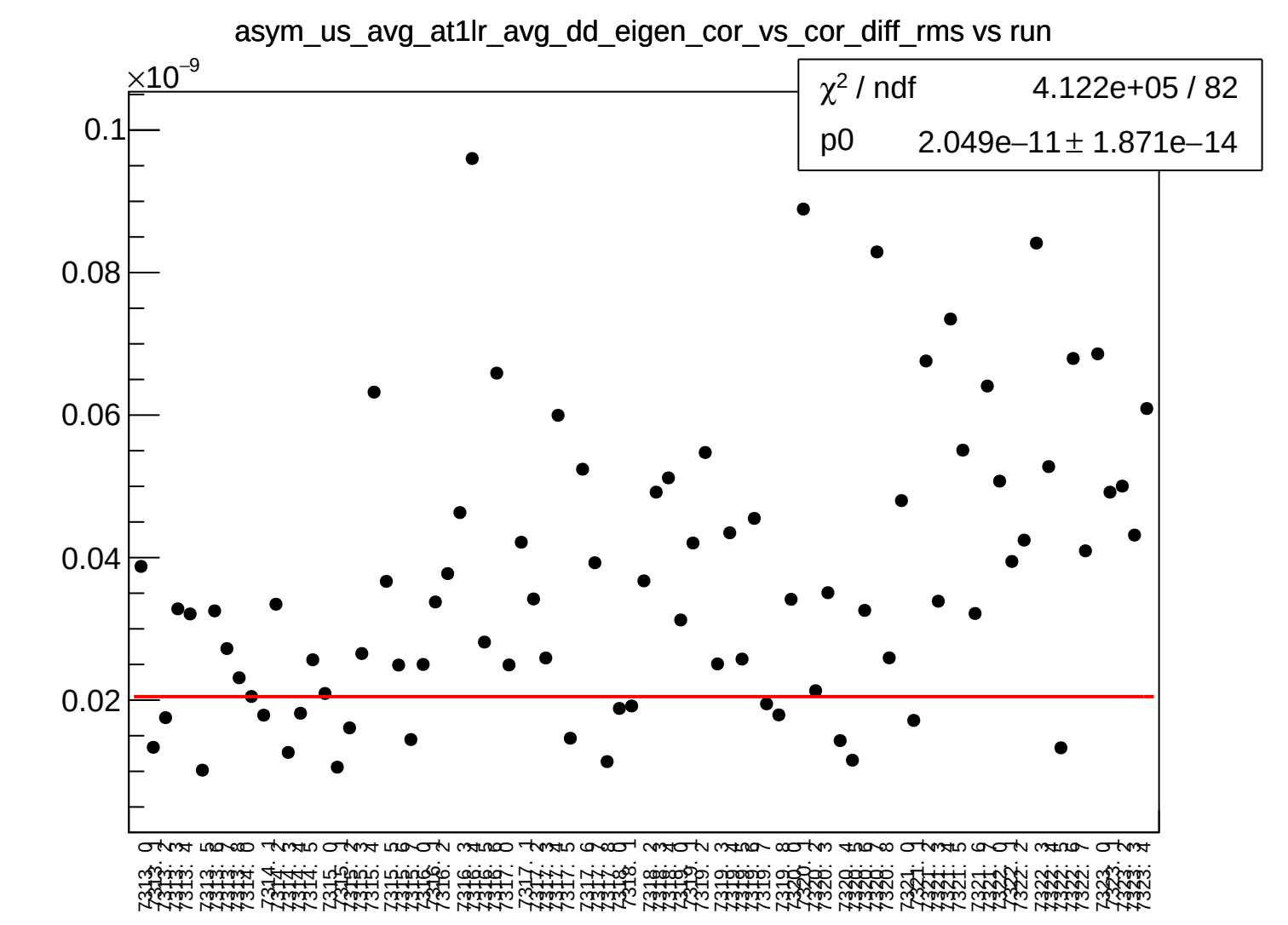

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.11 / 82
p0 0.02882 ± 0.05374
pull
Entries 83
Mean −66.49
Std Dev 0

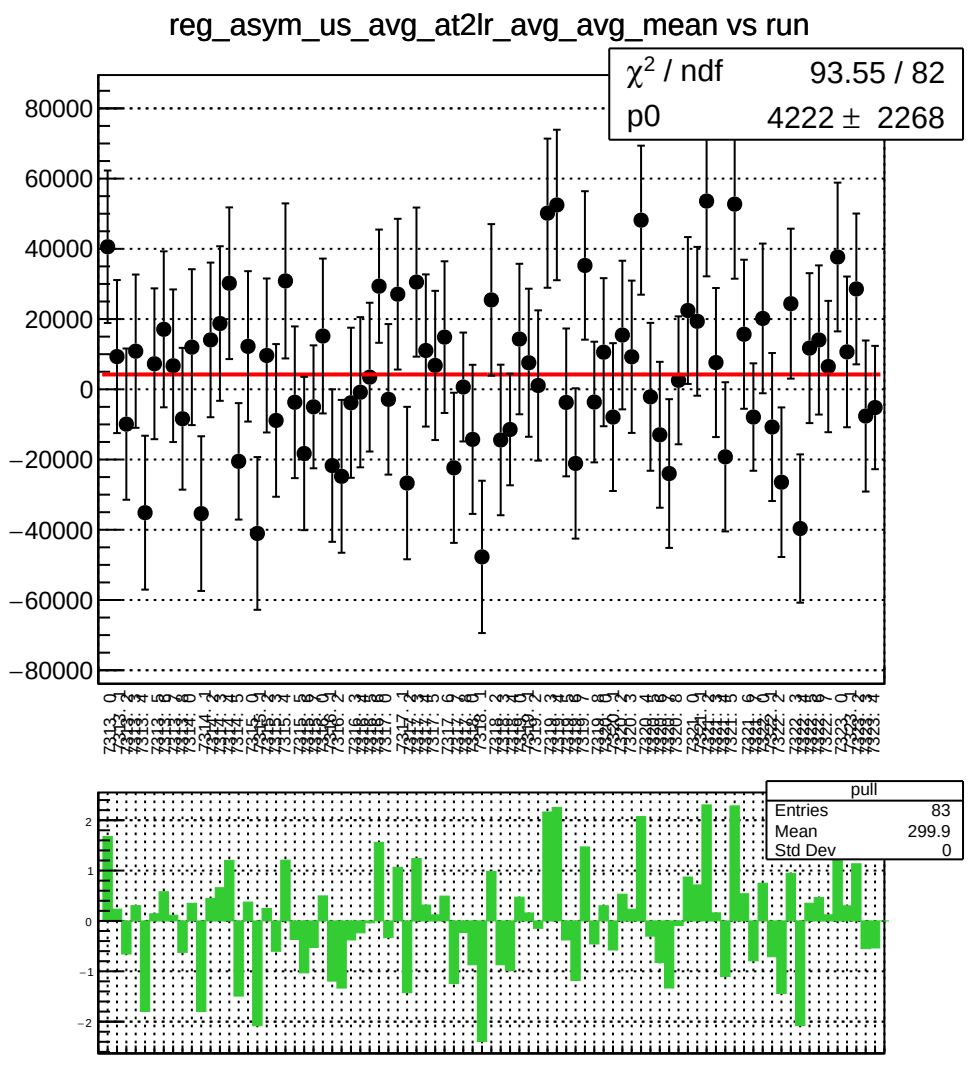

pull1D
Entries 83
Mean 0.006944
Std Dev 0.9576

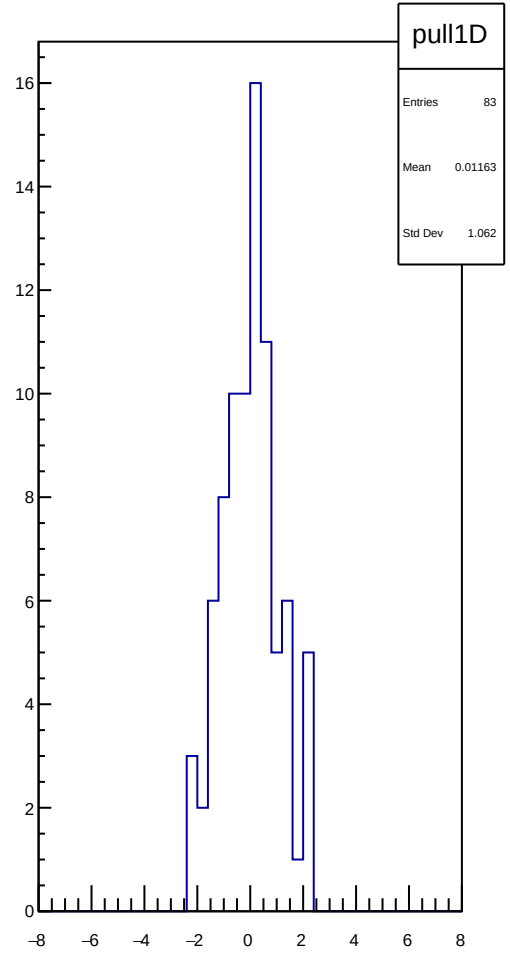

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.393e+05 / 82
p0 39.35 ± 0.038
160
140
120
100
80
60
40
20

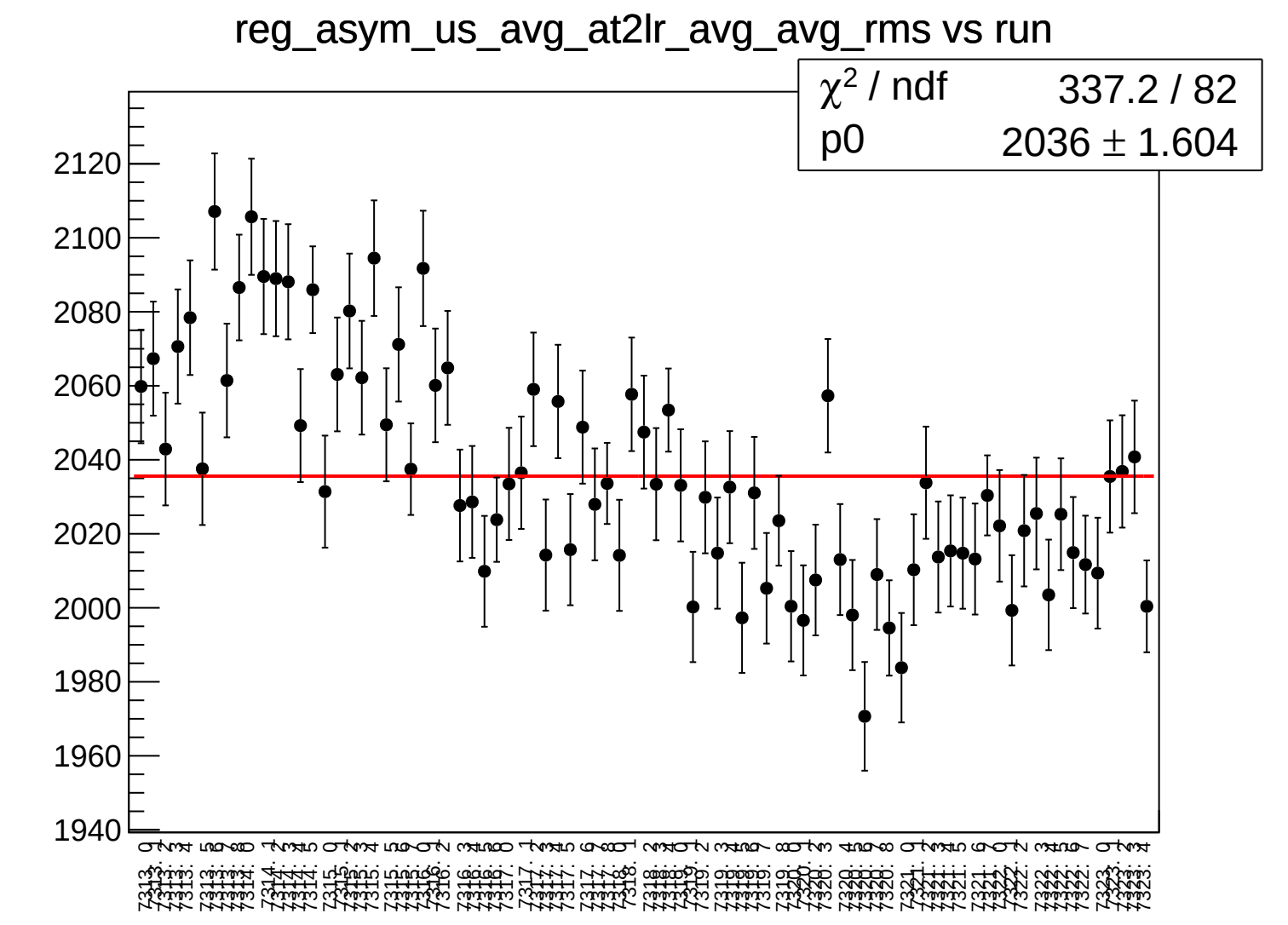

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.97 / 82
p0 −2.409e−14 ± 2.645e−14
pull
Entries 83
Mean −9.44
Std Dev 0

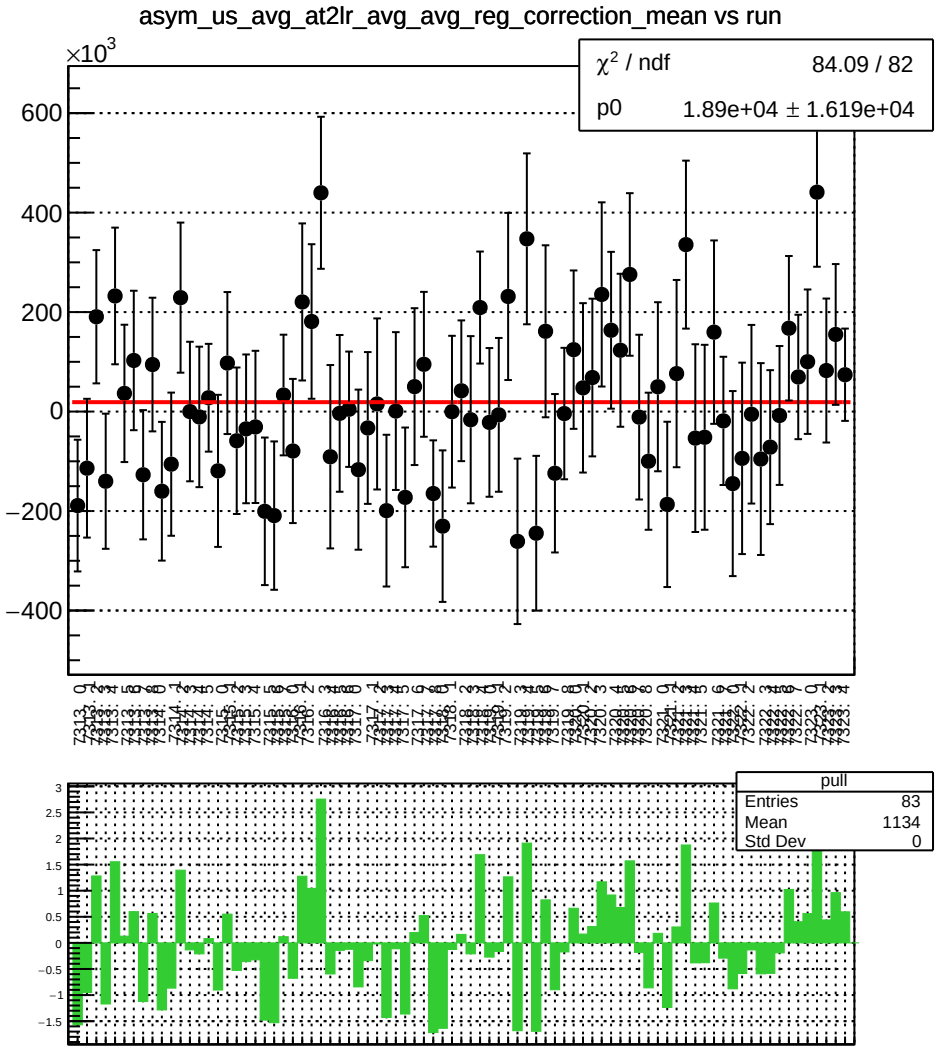

pull1D
Entries 83
Mean −0.0193
Std Dev 1.092

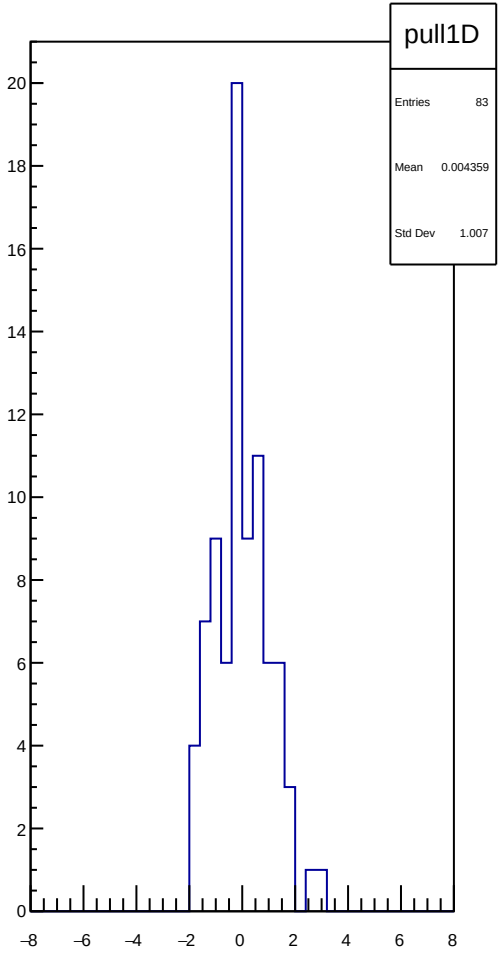

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.122e+05 / 82
p0 2.049e−11 ± 1.871e−14
0.1
0.08
0.06
0.04
0.02

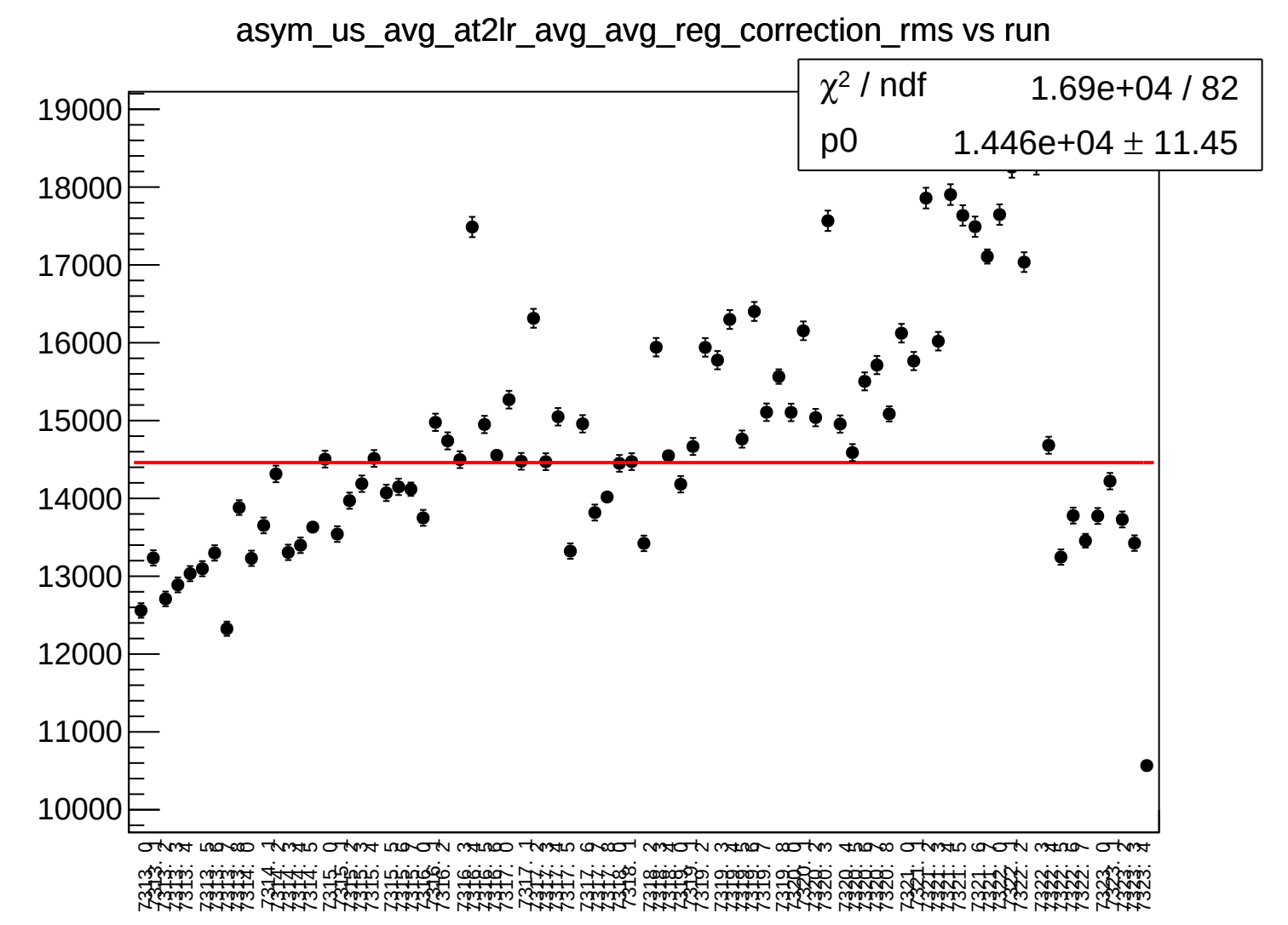

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 93.55 / 82
p0 4222 ± 2268
pull
Entries 83
Mean 299.9
Std Dev 0

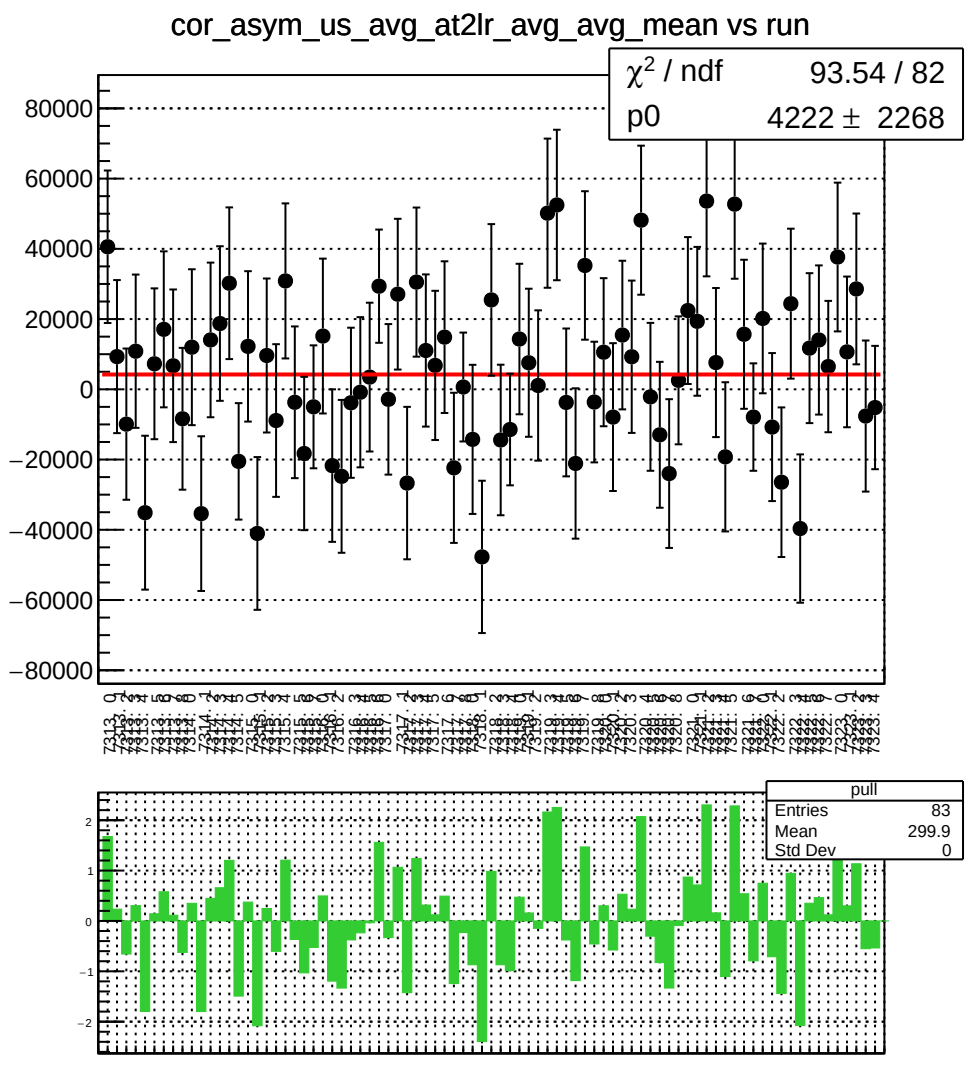

pull1D
Entries 83
Mean 0.01163
Std Dev 1.062

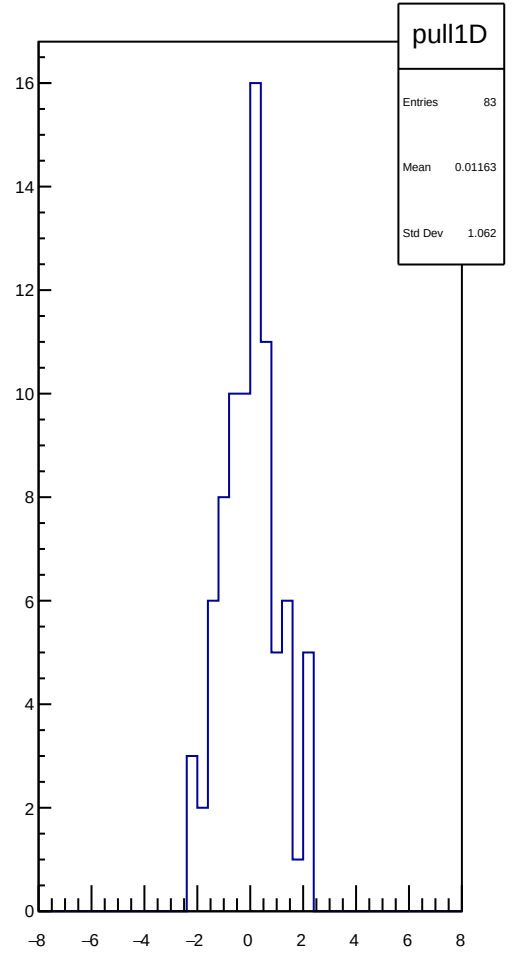

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 337.2 / 82
p0 2036 ± 1.604
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

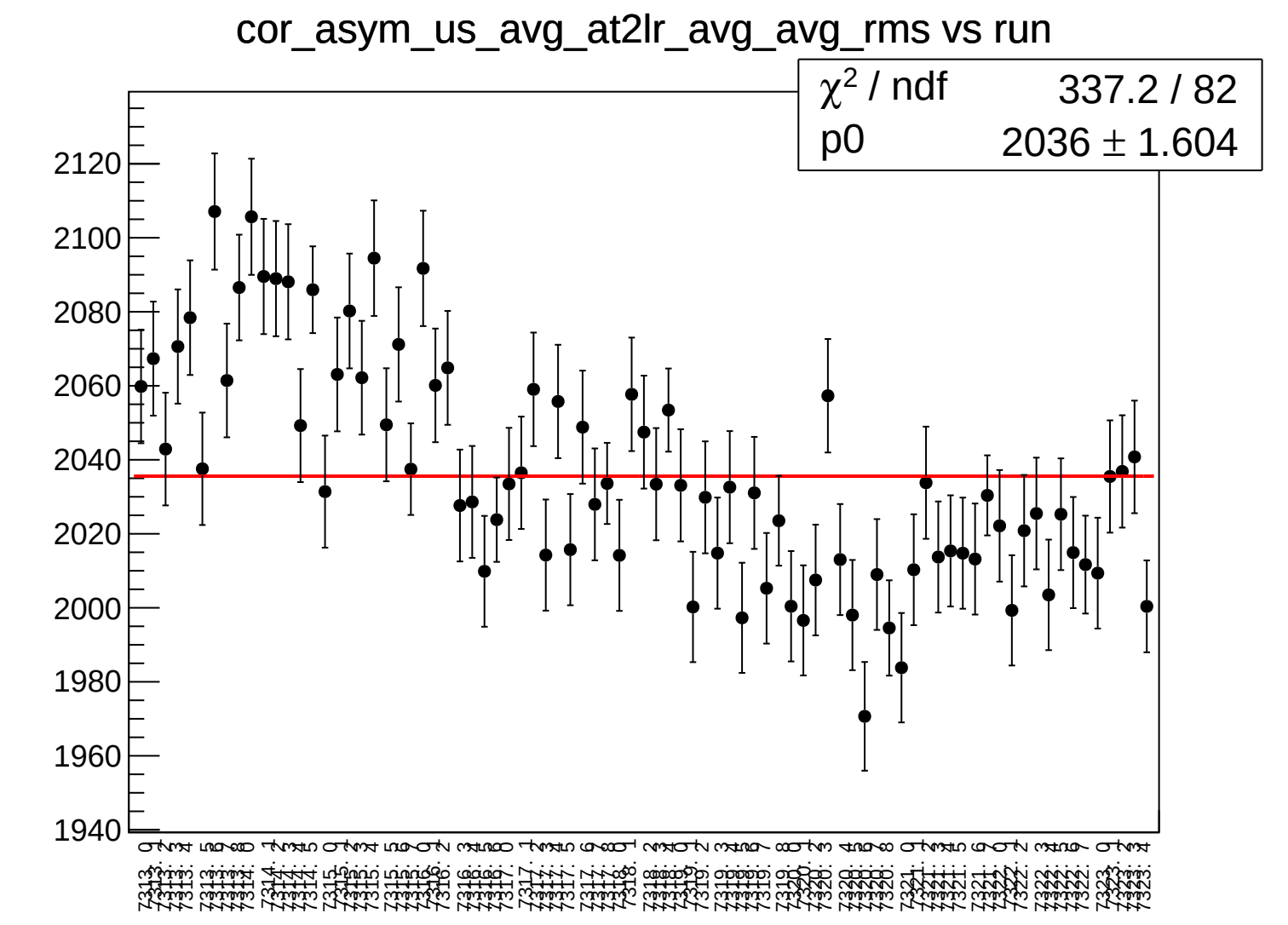

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.09 / 82
p0 1.89e+04 ± 1.619e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 1134
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

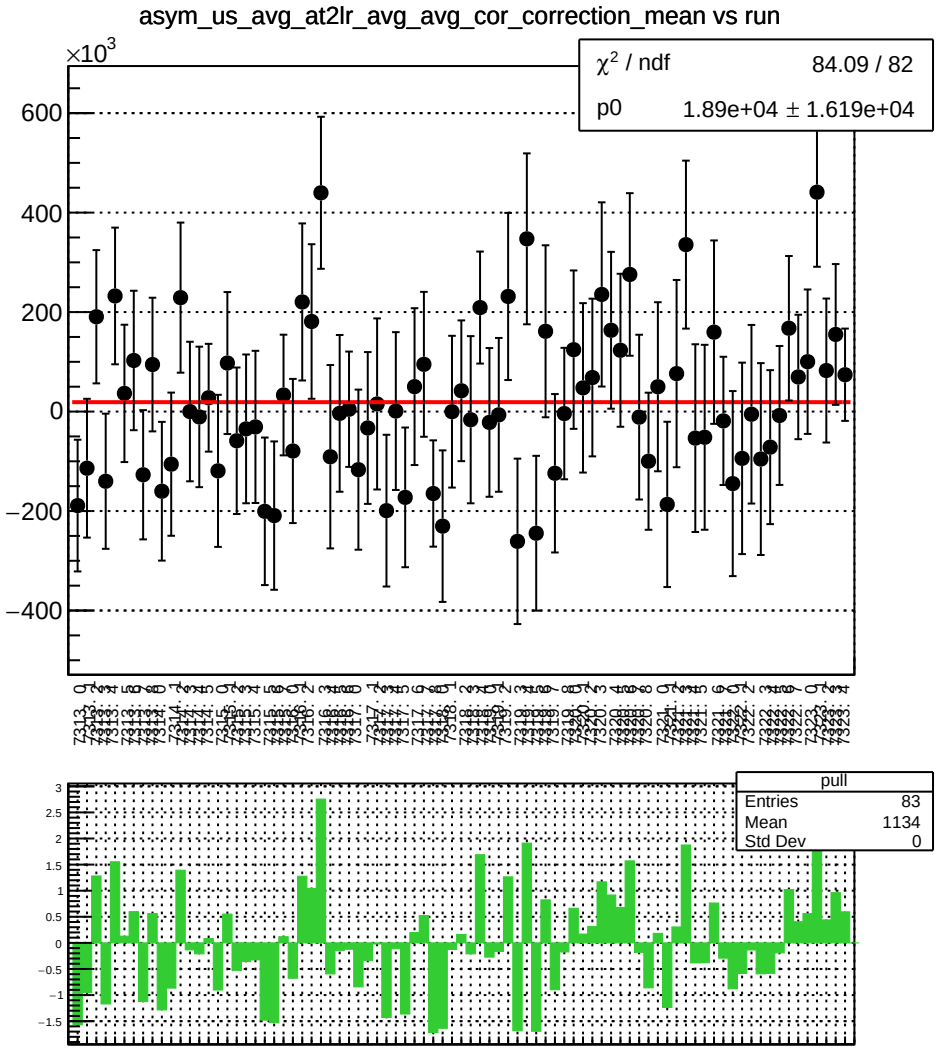

pull1D
Entries 83
Mean 0.004359
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

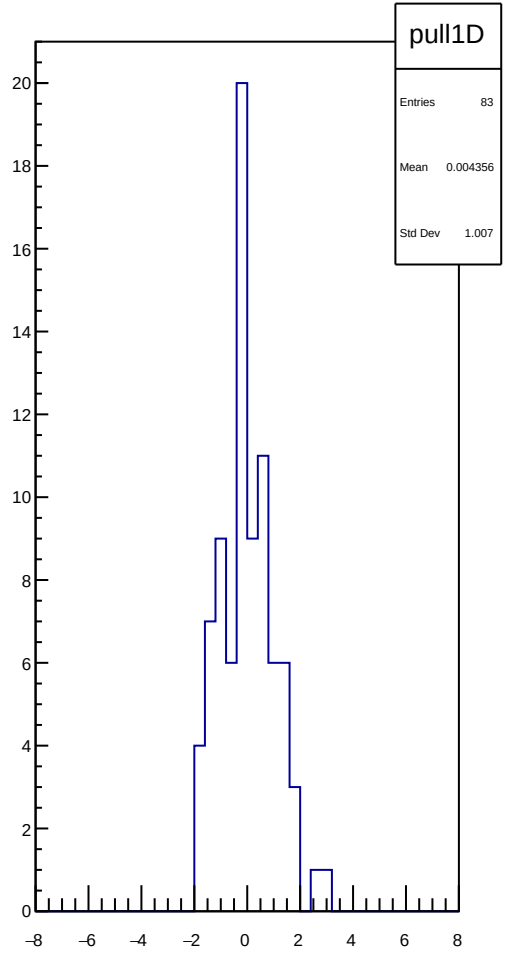

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.69e+04 / 82
p0 1.446e+04 ± 11.45
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

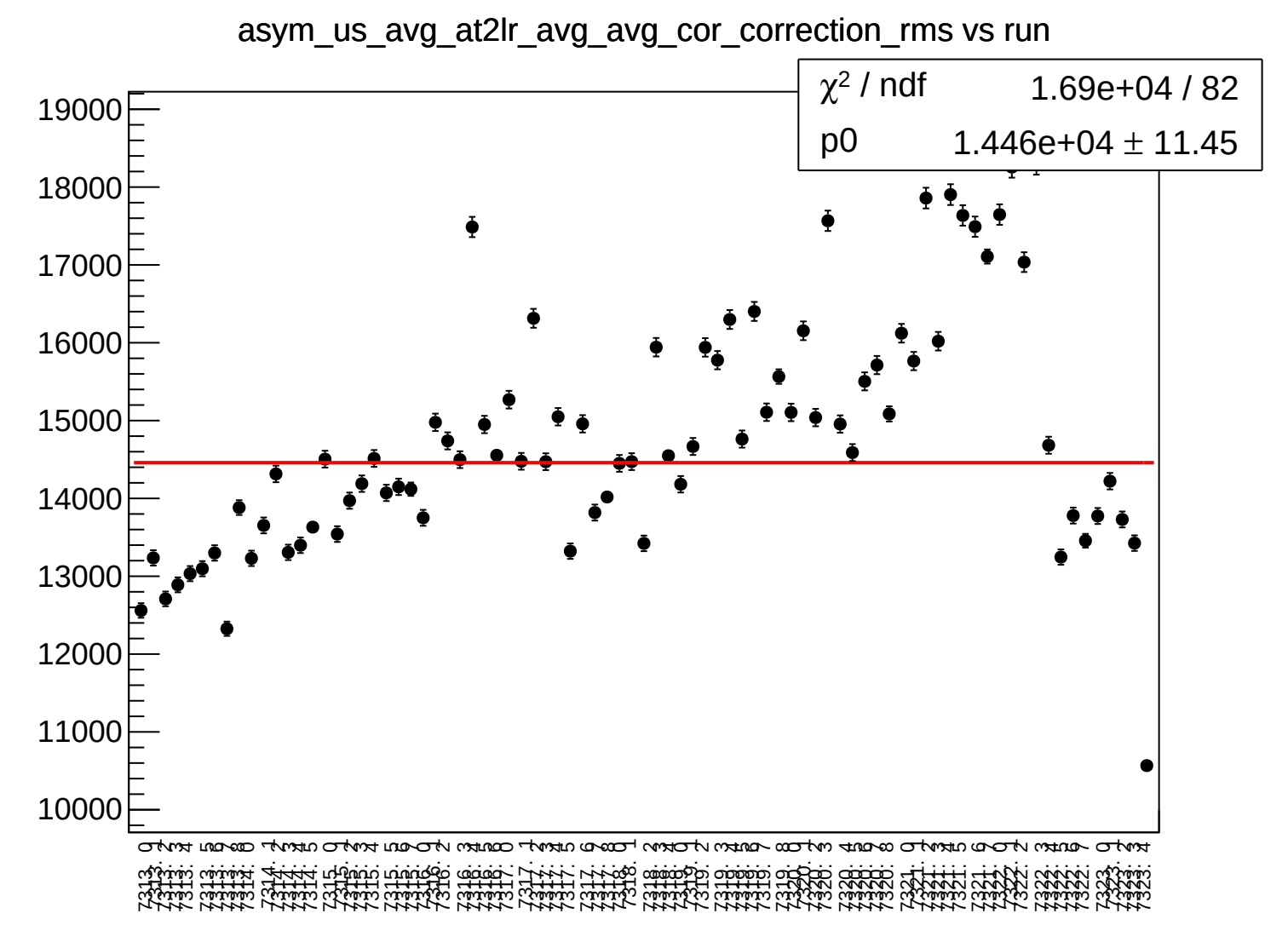

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 93.54 / 82
p0 4222 ± 2268
pull
Entries 83
Mean 299.9
Std Dev 0

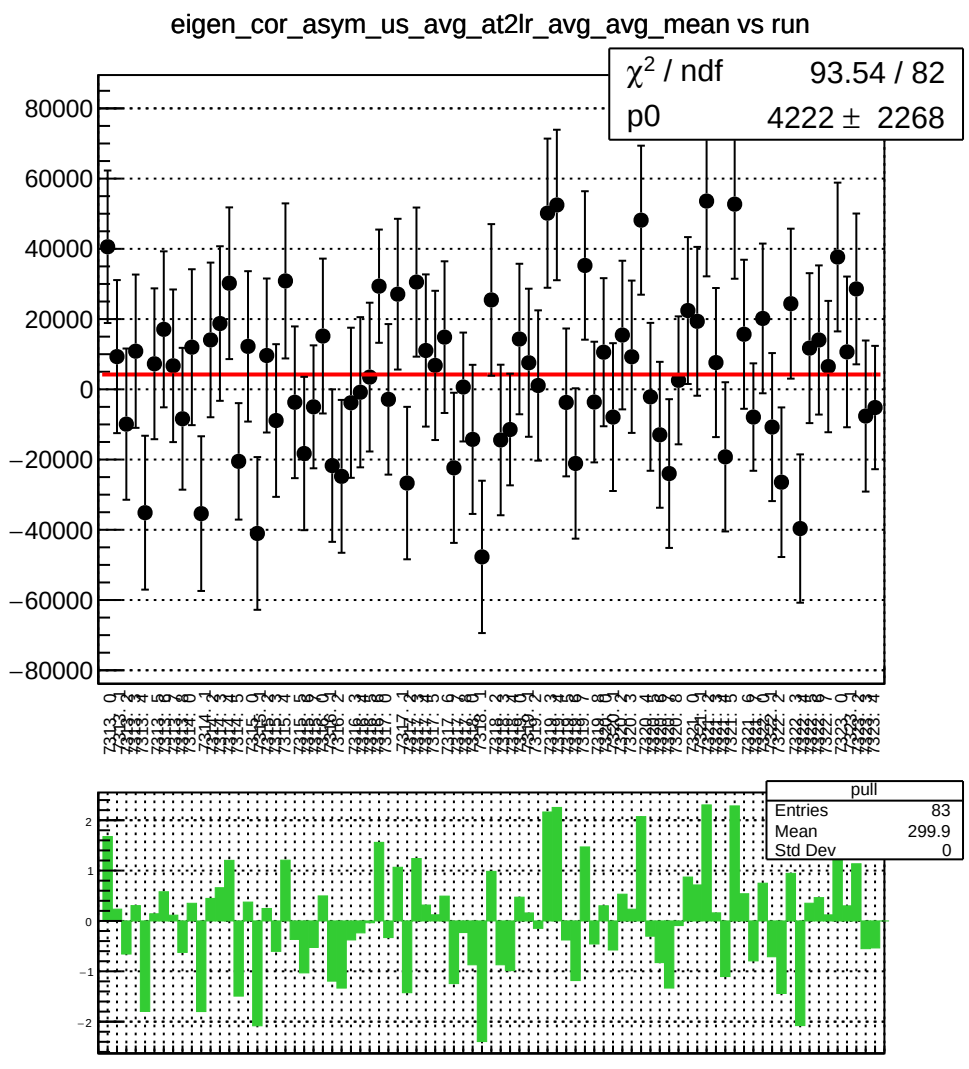

pull1D
Entries 83
Mean 0.01163
Std Dev 1.062

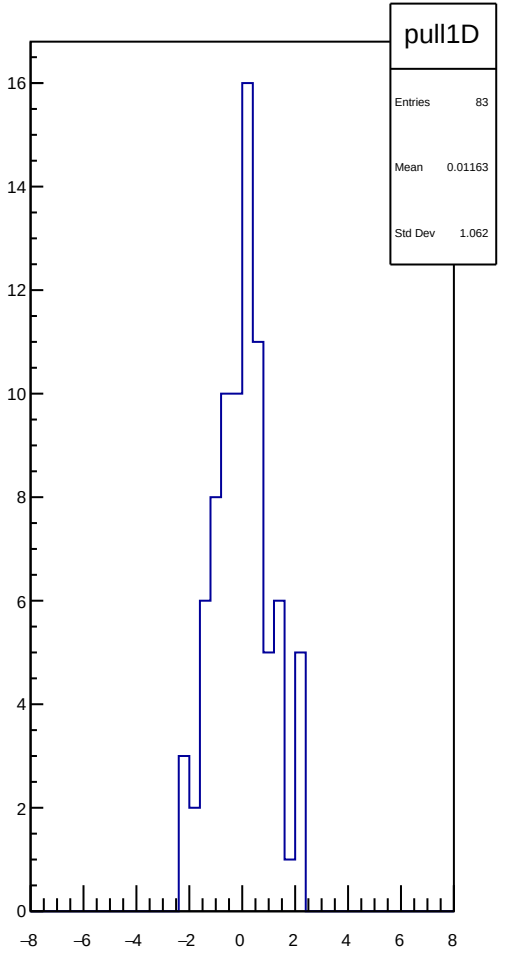

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 337.2 / 82
p0 2036 ± 1.604
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

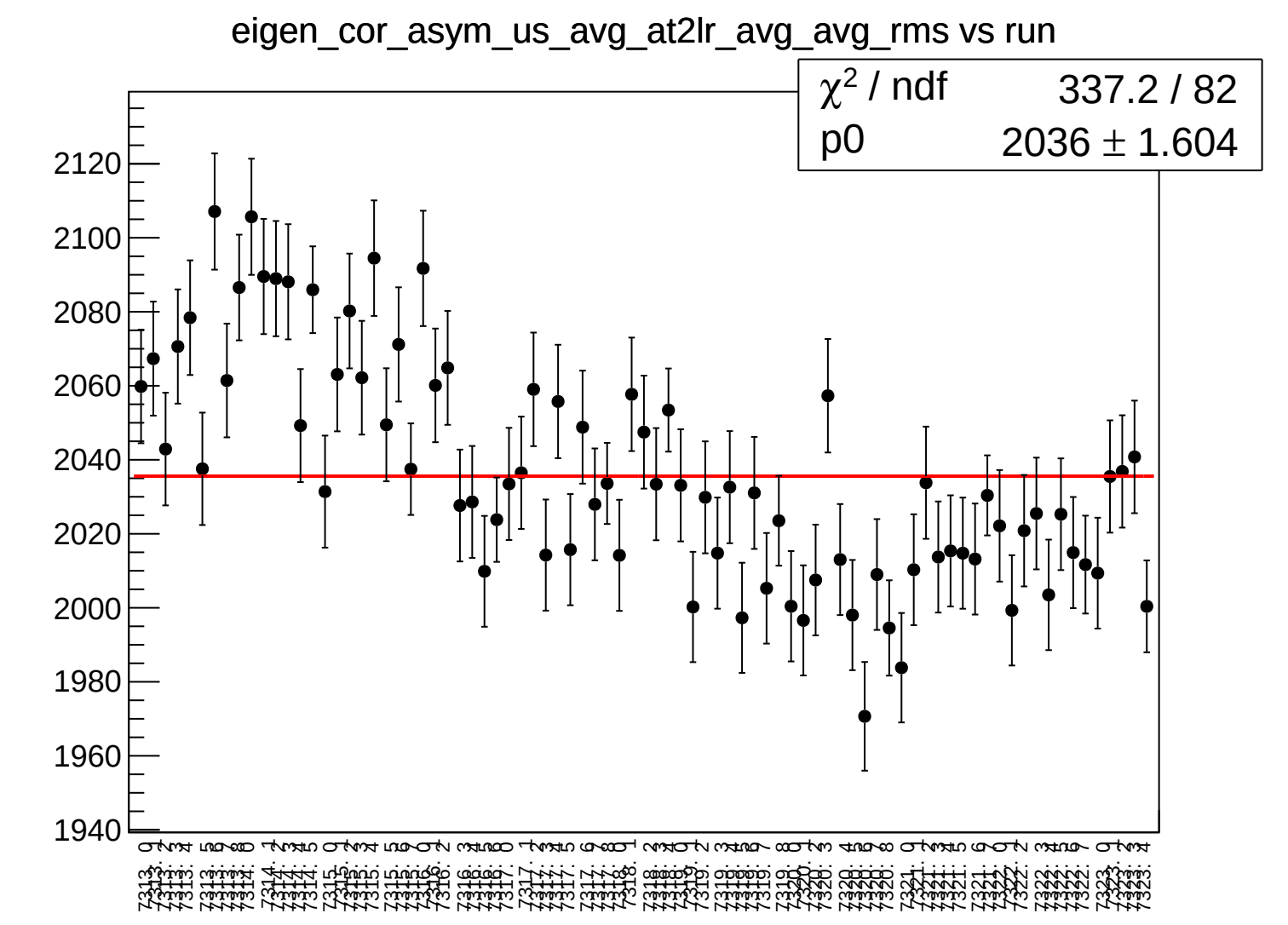

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.09 / 82
p0 1.89e+04 ± 1.619e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 1134
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

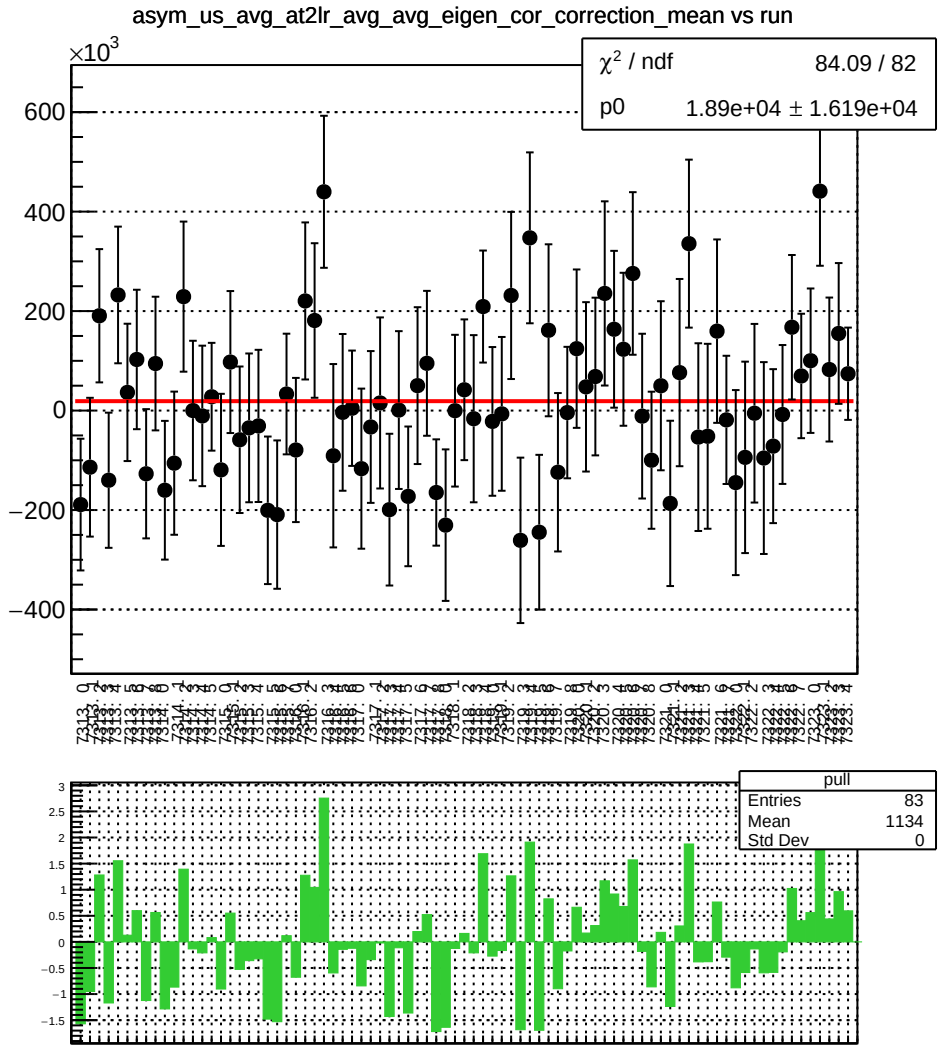

pull1D
Entries 83
Mean 0.004356
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

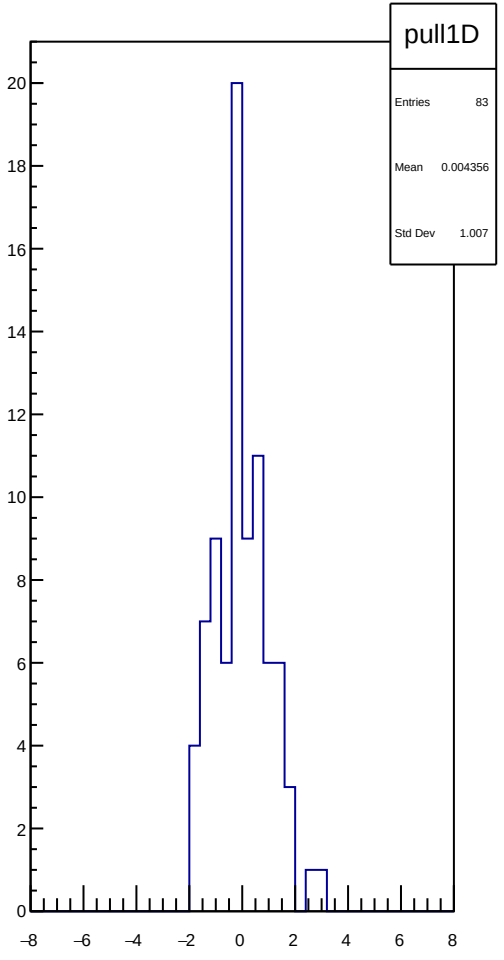

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.69e+04 / 82
p0 1.446e+04 ± 11.45
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

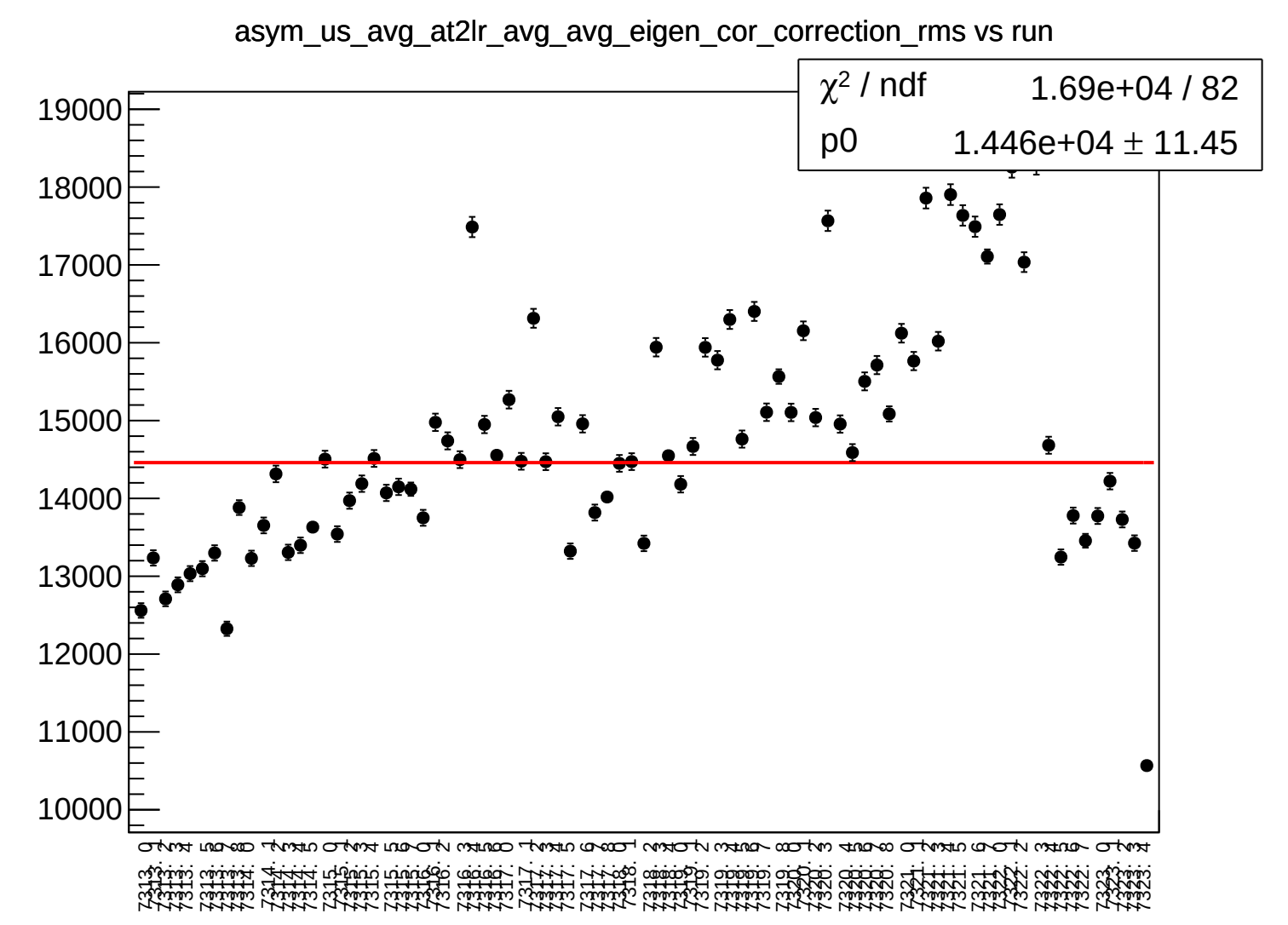

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 93.54 / 82
p0 4222 ± 2268
pull
Entries 83
Mean 299.9
Std Dev 0

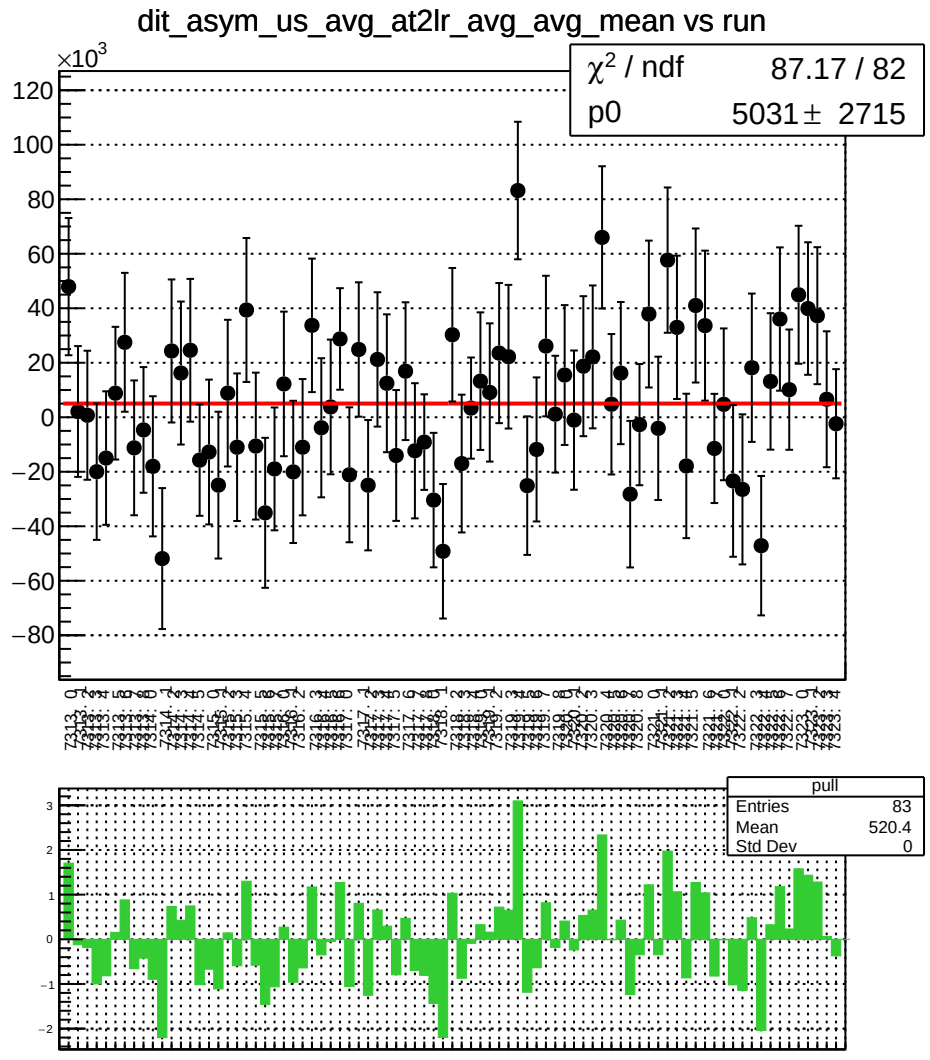

pull1D
Entries 83
Mean 0.01163
Std Dev 1.062

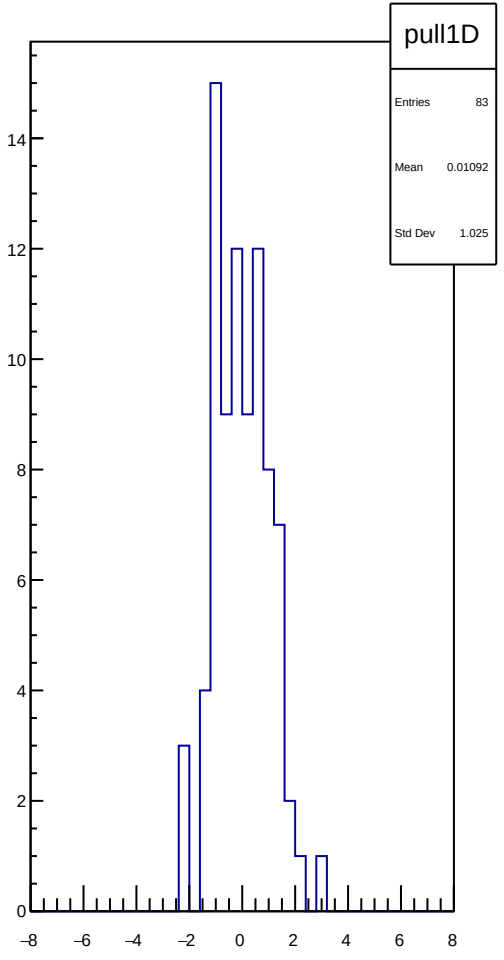

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 337.2 / 82
p0 2036 ± 1.604
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

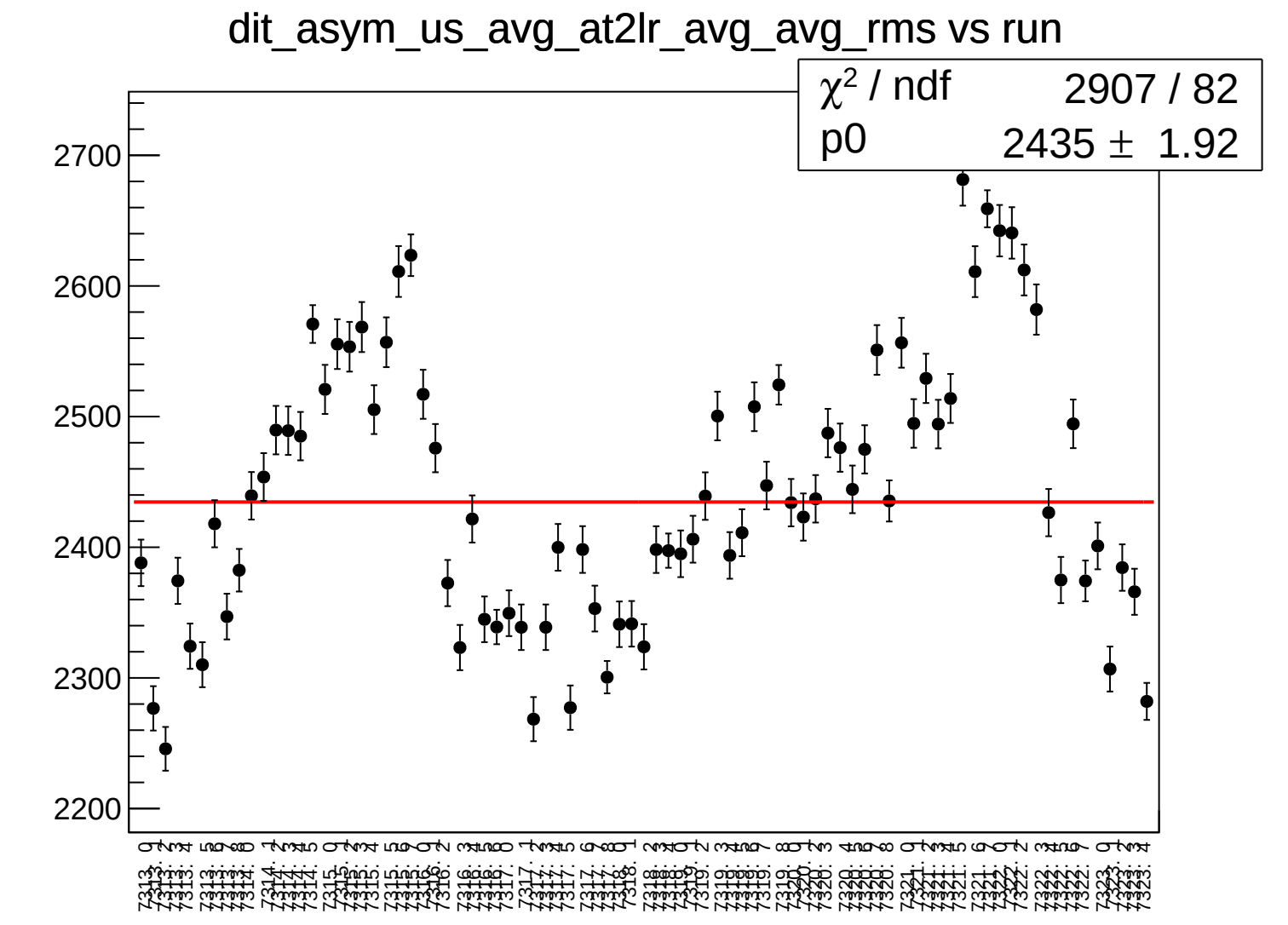

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.09 / 82
p0 1.89e+04 ± 1.619e+04
pull
Entries 83
Mean 1134
Std Dev 0

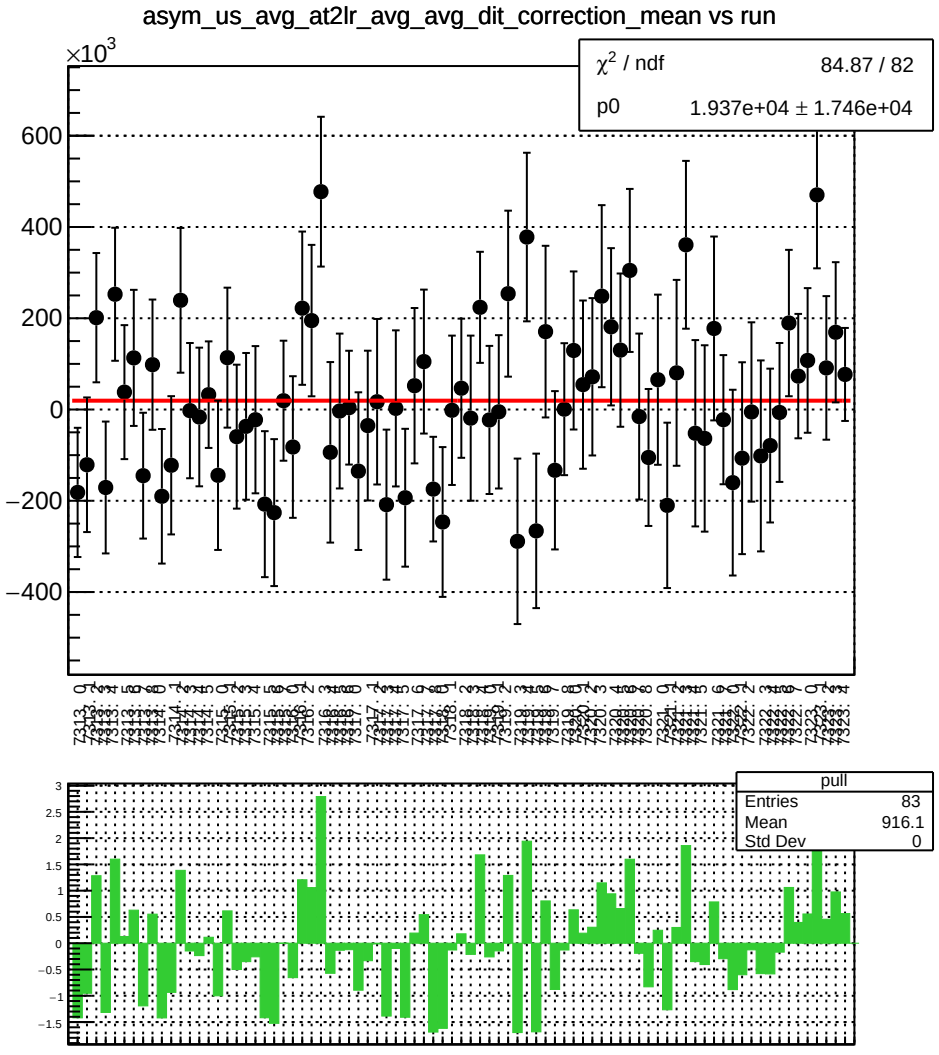

pull1D
Entries 83
Mean 0.004356
Std Dev 1.007

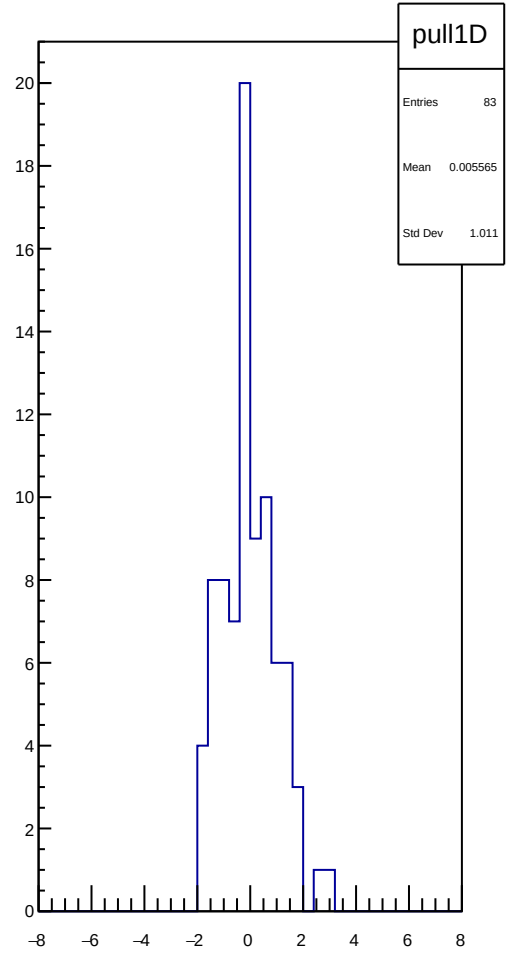

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.69e+04 / 82
p0 1.446e+04 ± 11.45
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

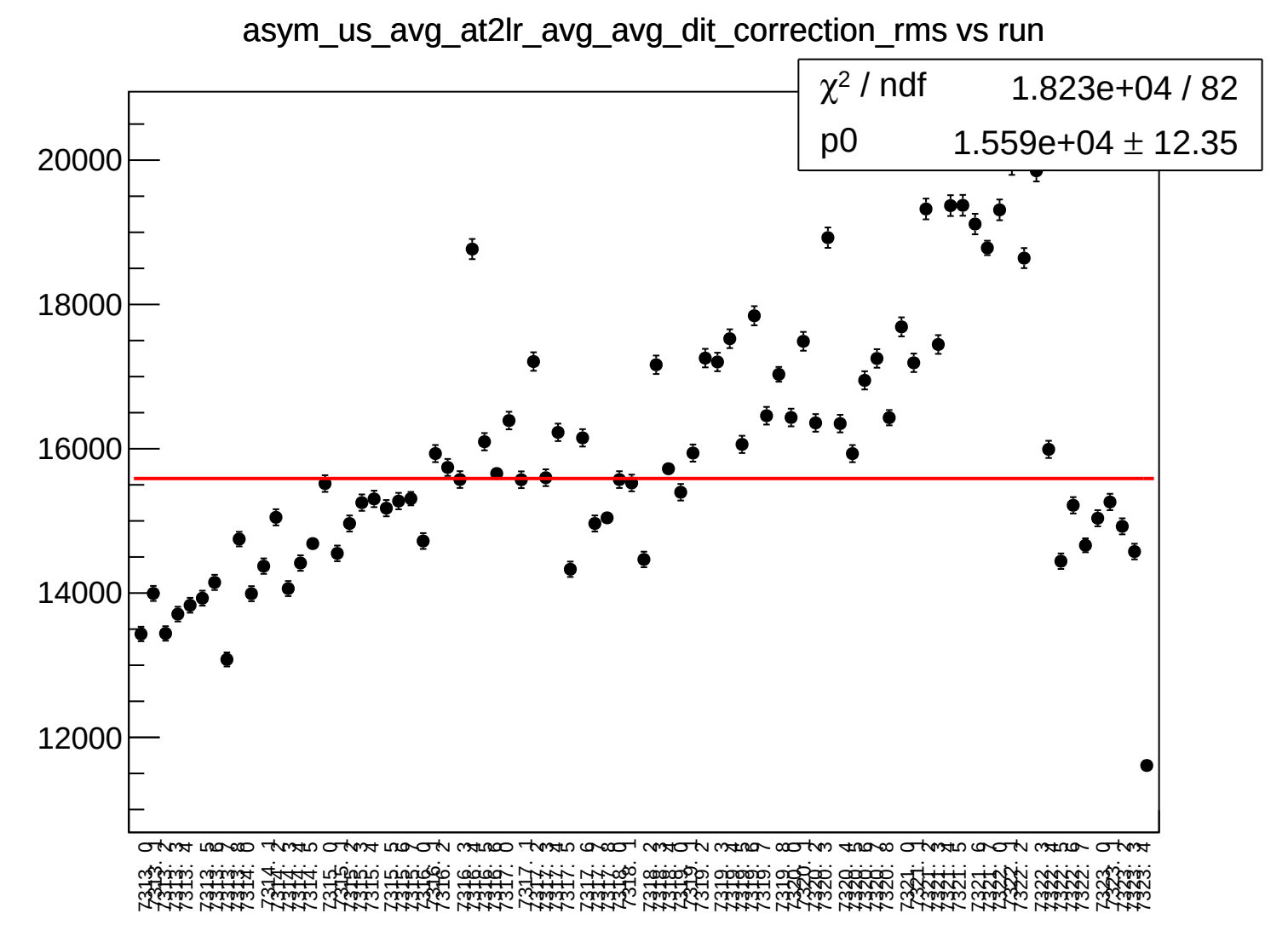

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.17 / 82
p0 5031 ± 2715
pull
Entries 83
Mean 520.4
Std Dev 0

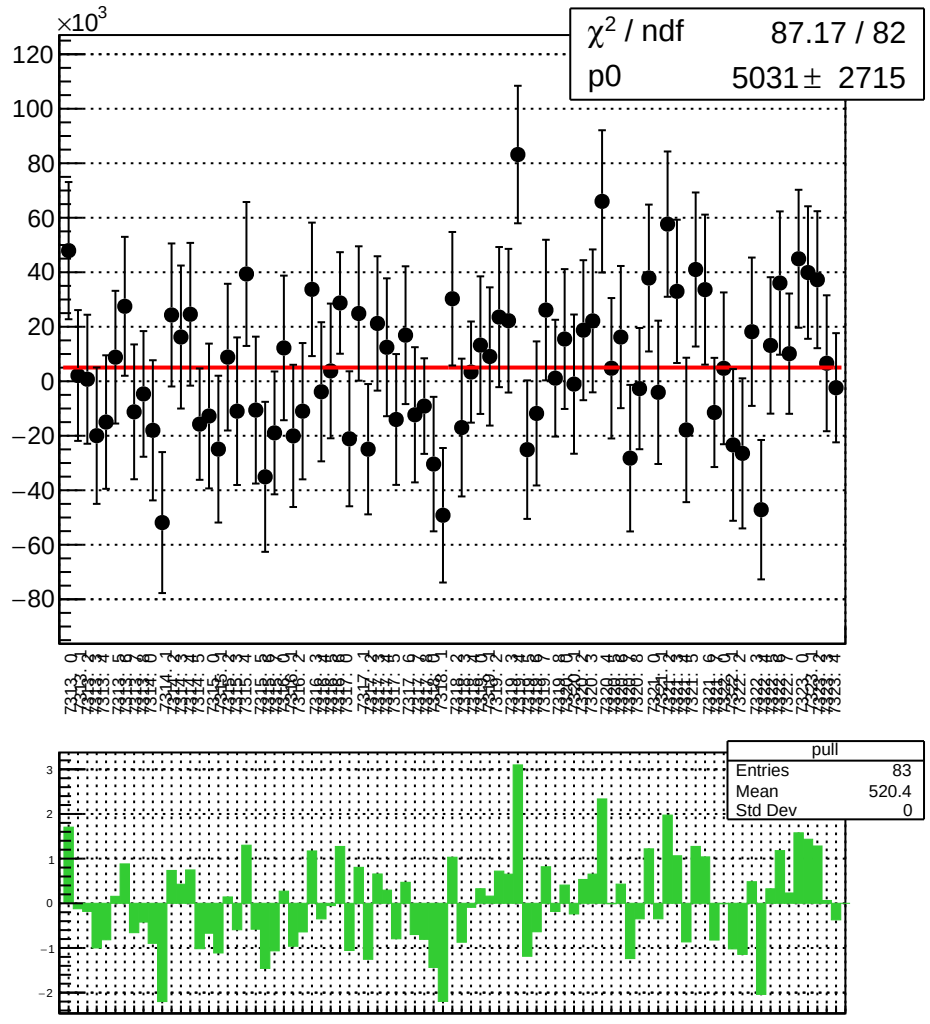

pull1D
Entries 83
Mean 0.01092
Std Dev 1.025

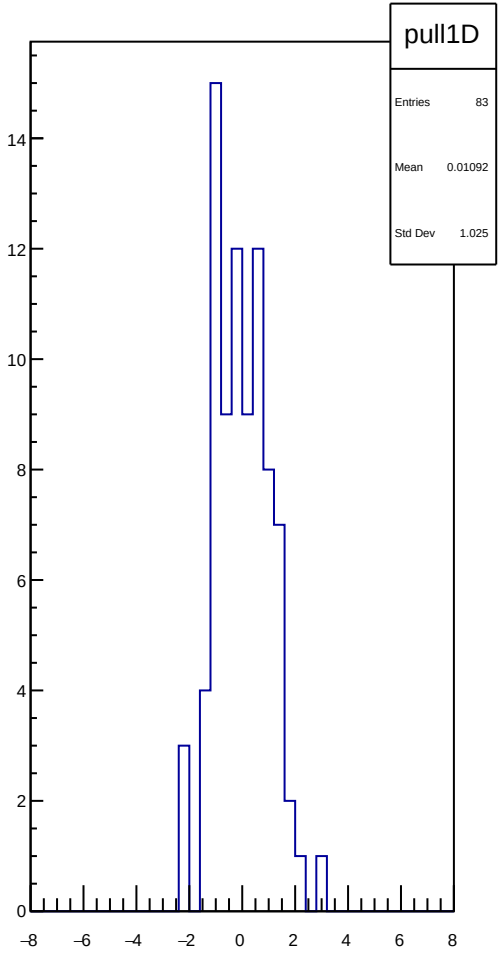

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2907 / 82
p0 2435 ± 1.92
2700
2600
2500
2400
2300
2200

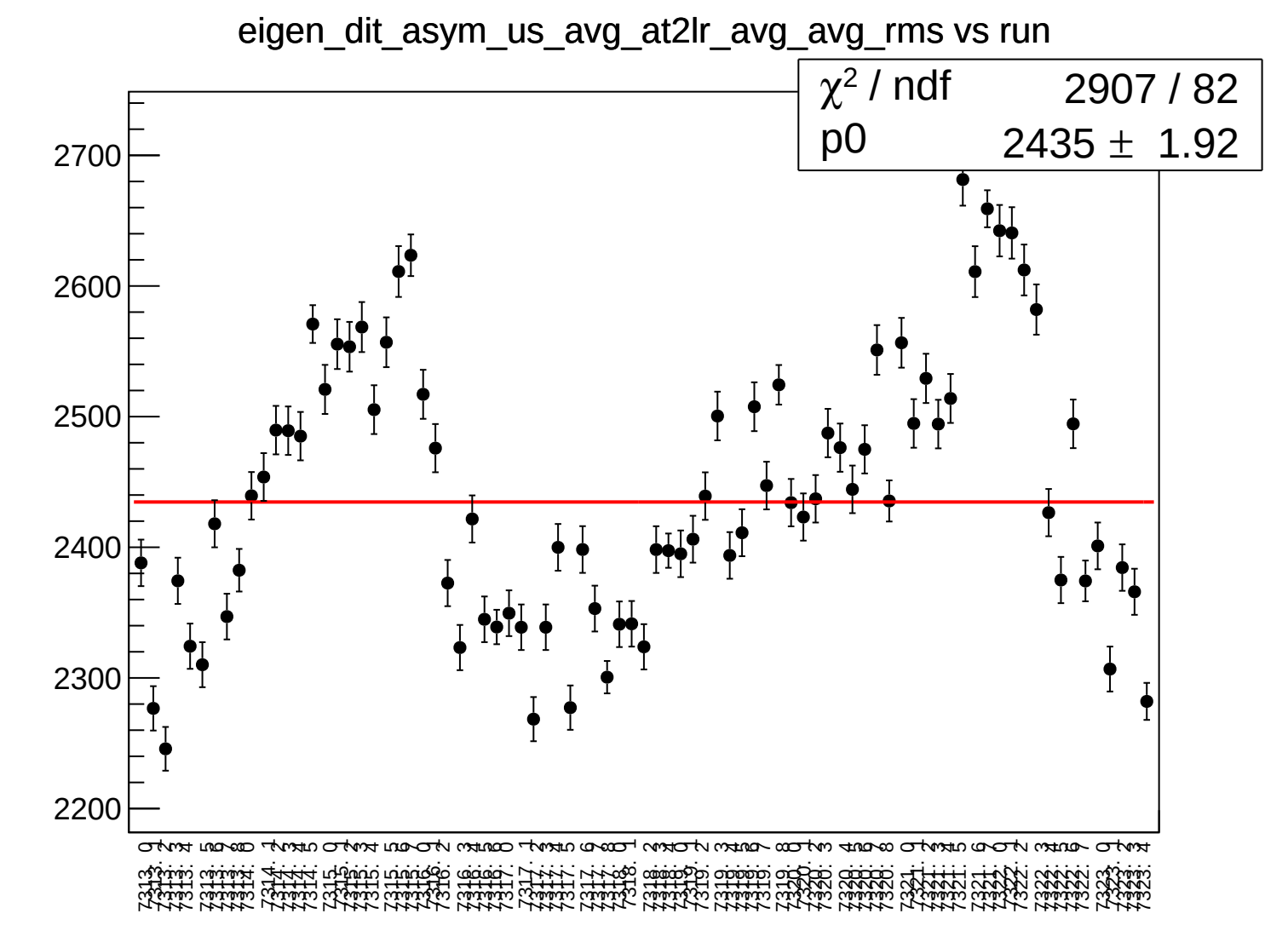

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.87 / 82
p0 1.937e+04 ± 1.746e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 916.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

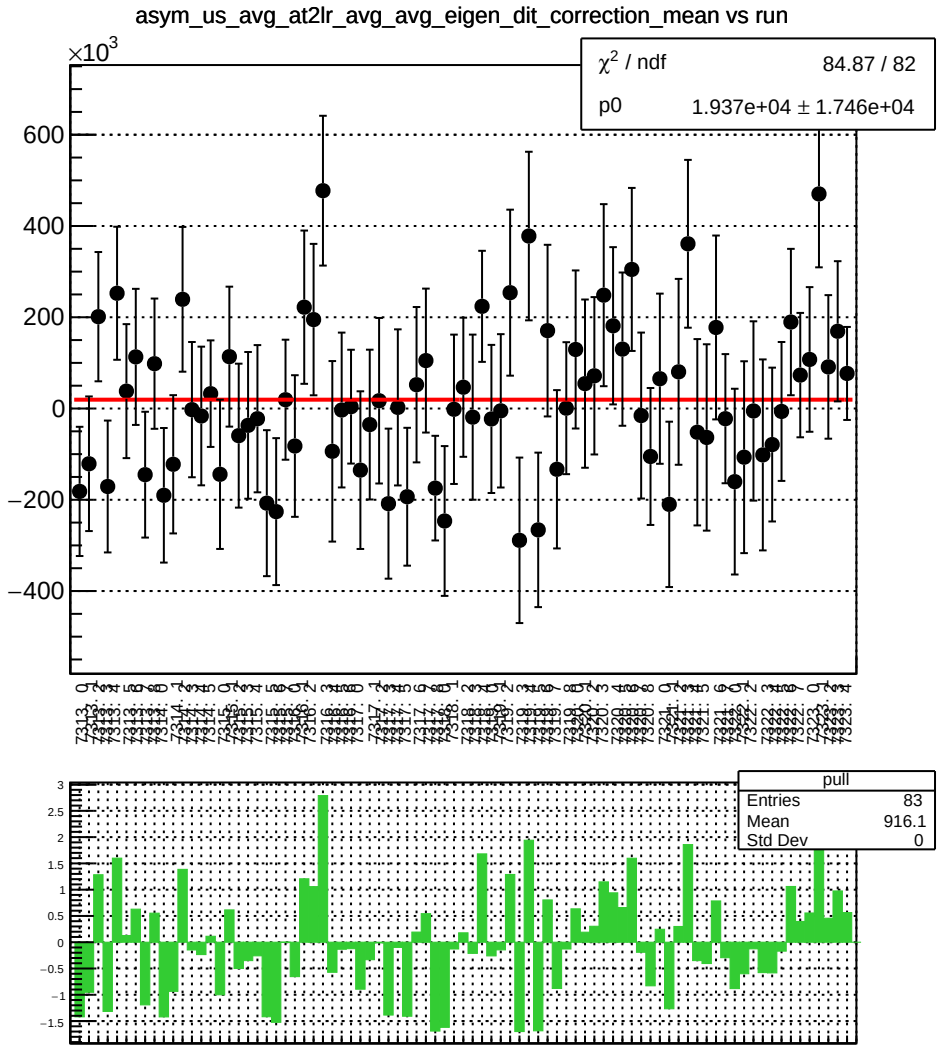

pull1D
Entries 83
Mean 0.005565
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

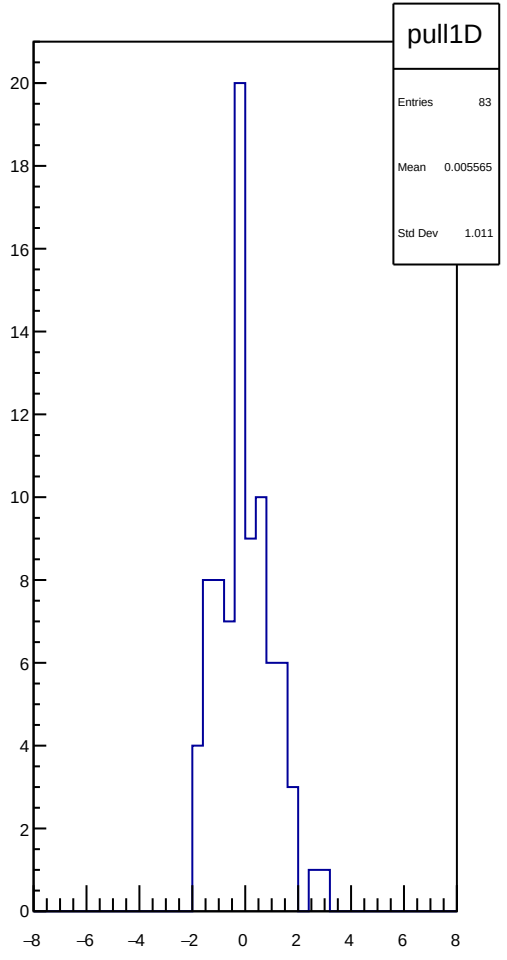

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.823e+04 / 82
p0 1.559e+04 ± 12.35
20000
18000
16000
14000
12000

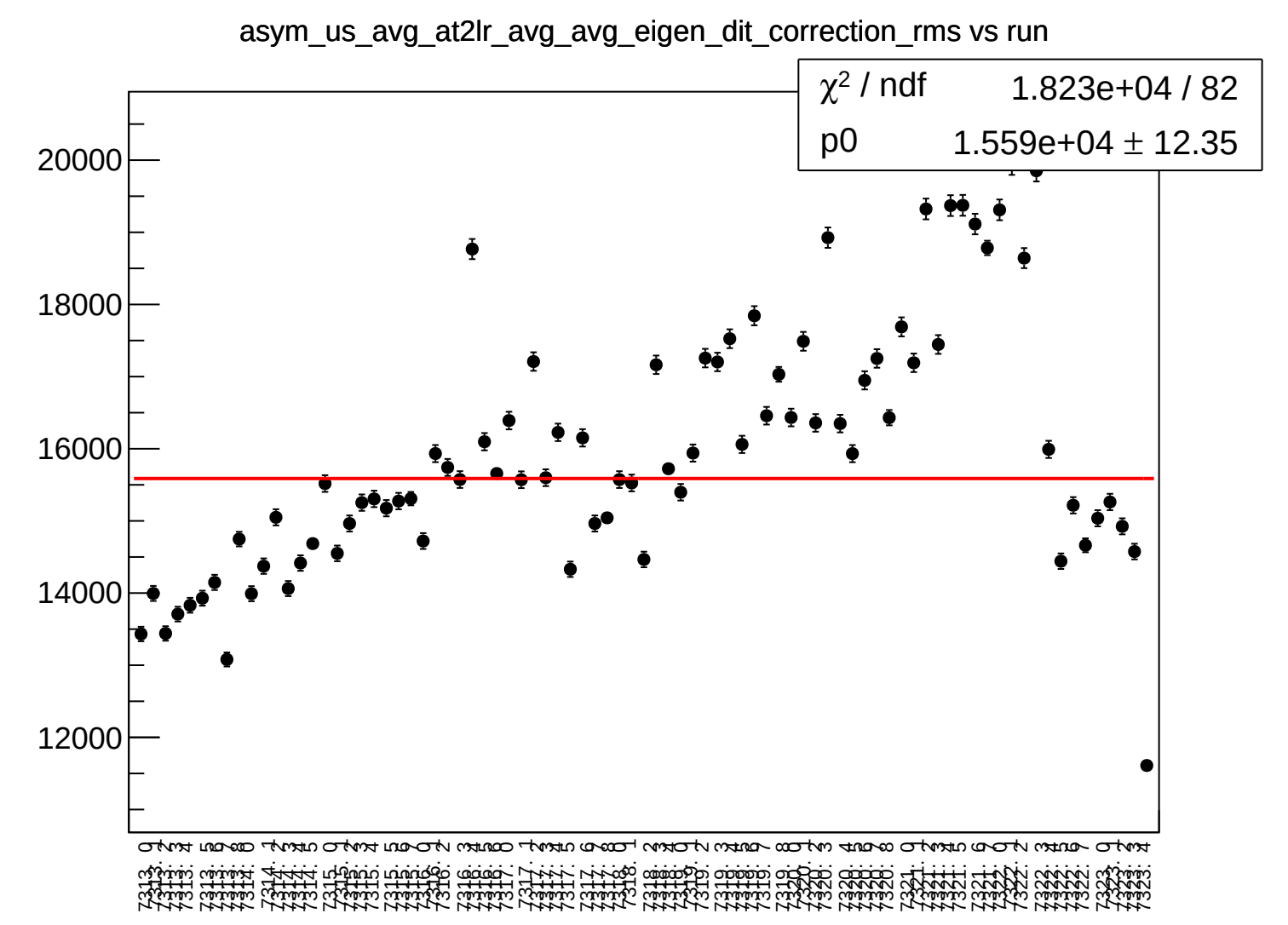

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 87.17 / 82
p0 5031 ± 2715
pull
Entries 83
Mean 520.4
Std Dev 0

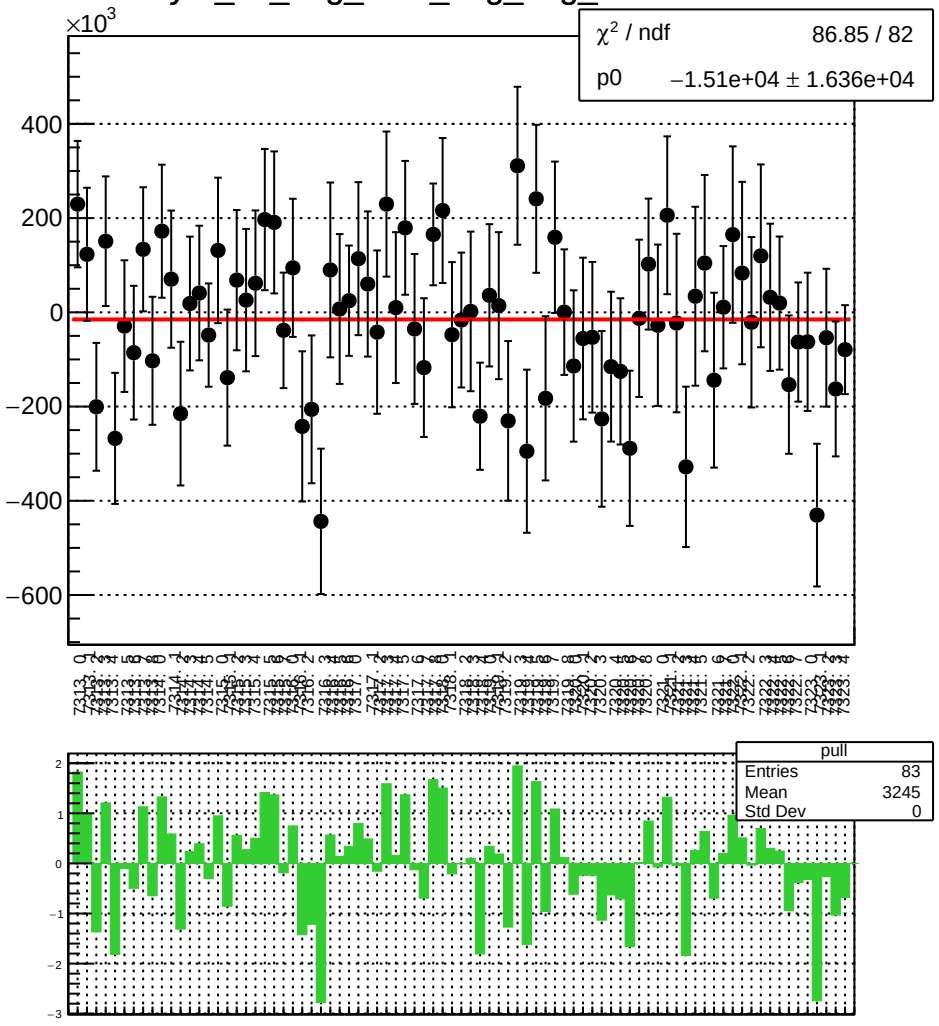

pull1D
Entries 83
Mean 0.01092
Std Dev 1.025

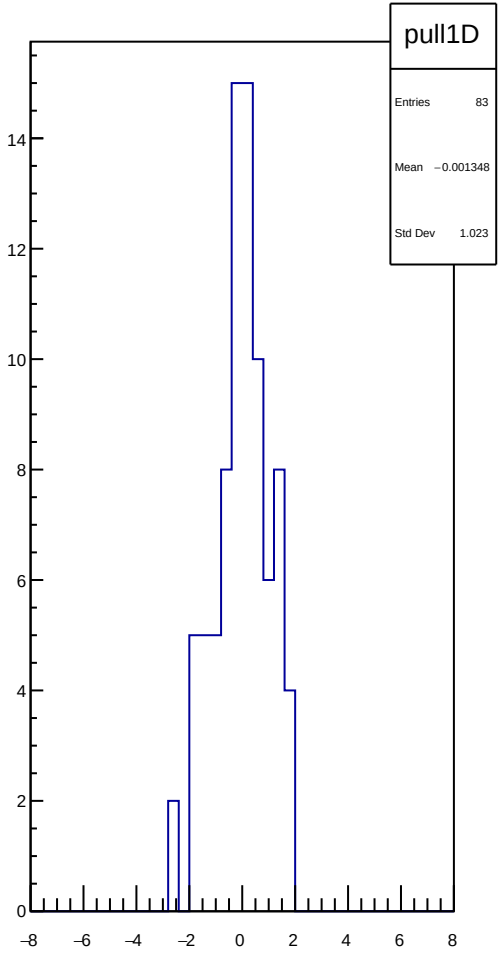

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2907 / 82
p0 2435 ± 1.92
2700
2600
2500
2400
2300
2200

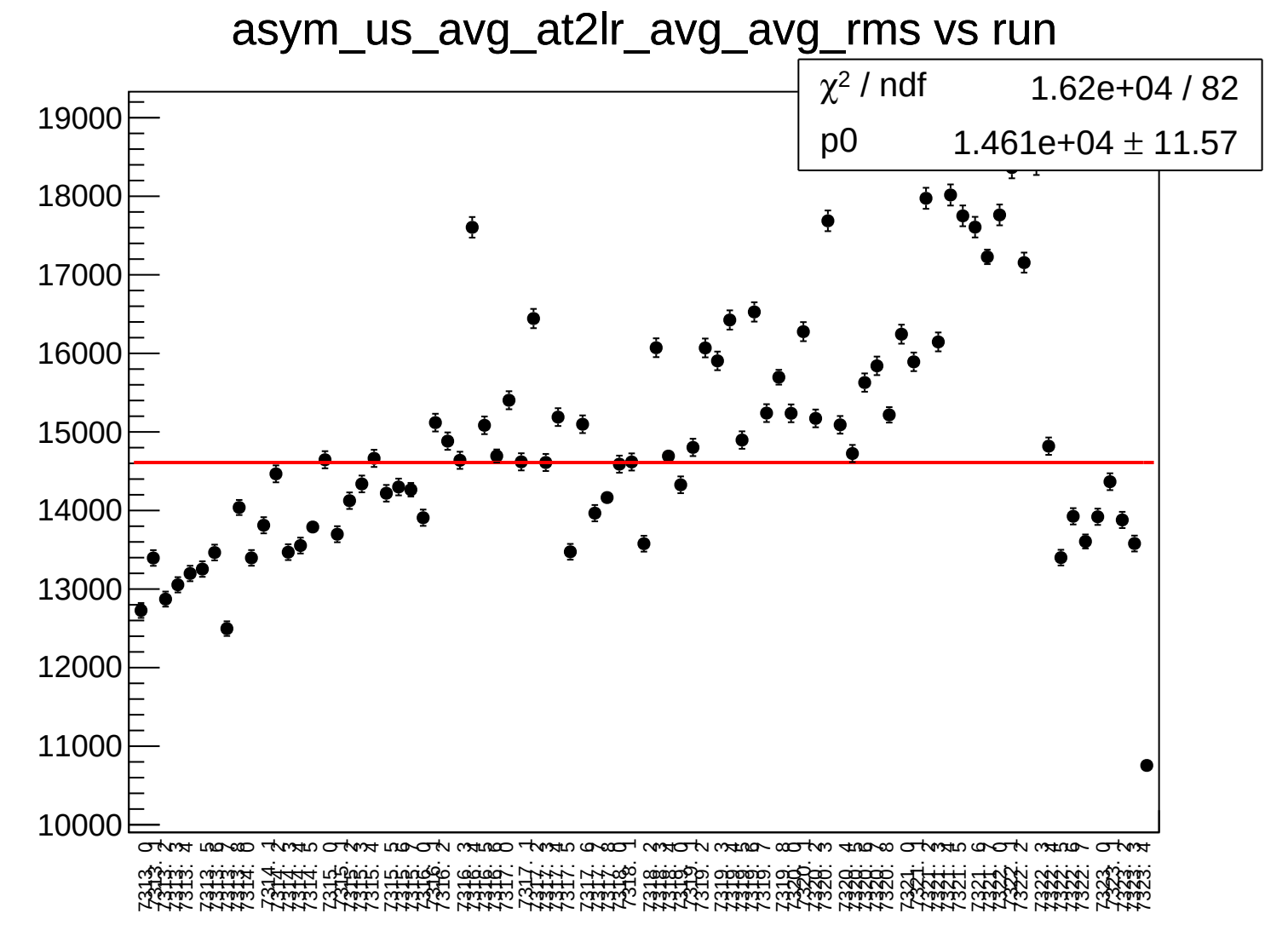

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.87 / 82
p0 1.937e+04 ± 1.746e+04
600
400
200
0
−200
−400
pull
Entries 83
Mean 916.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

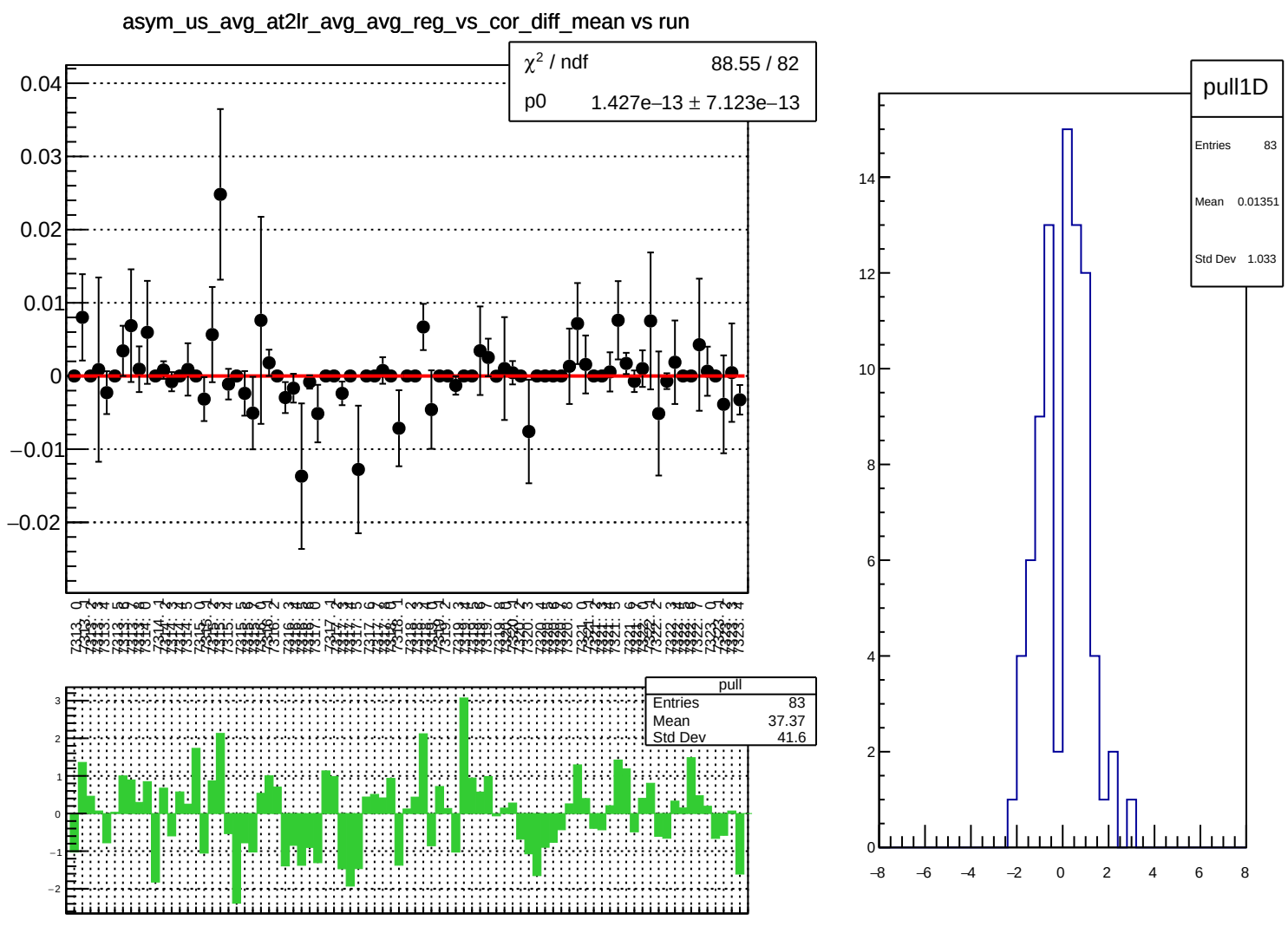

pull1D
Entries 83
Mean 0.005565
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

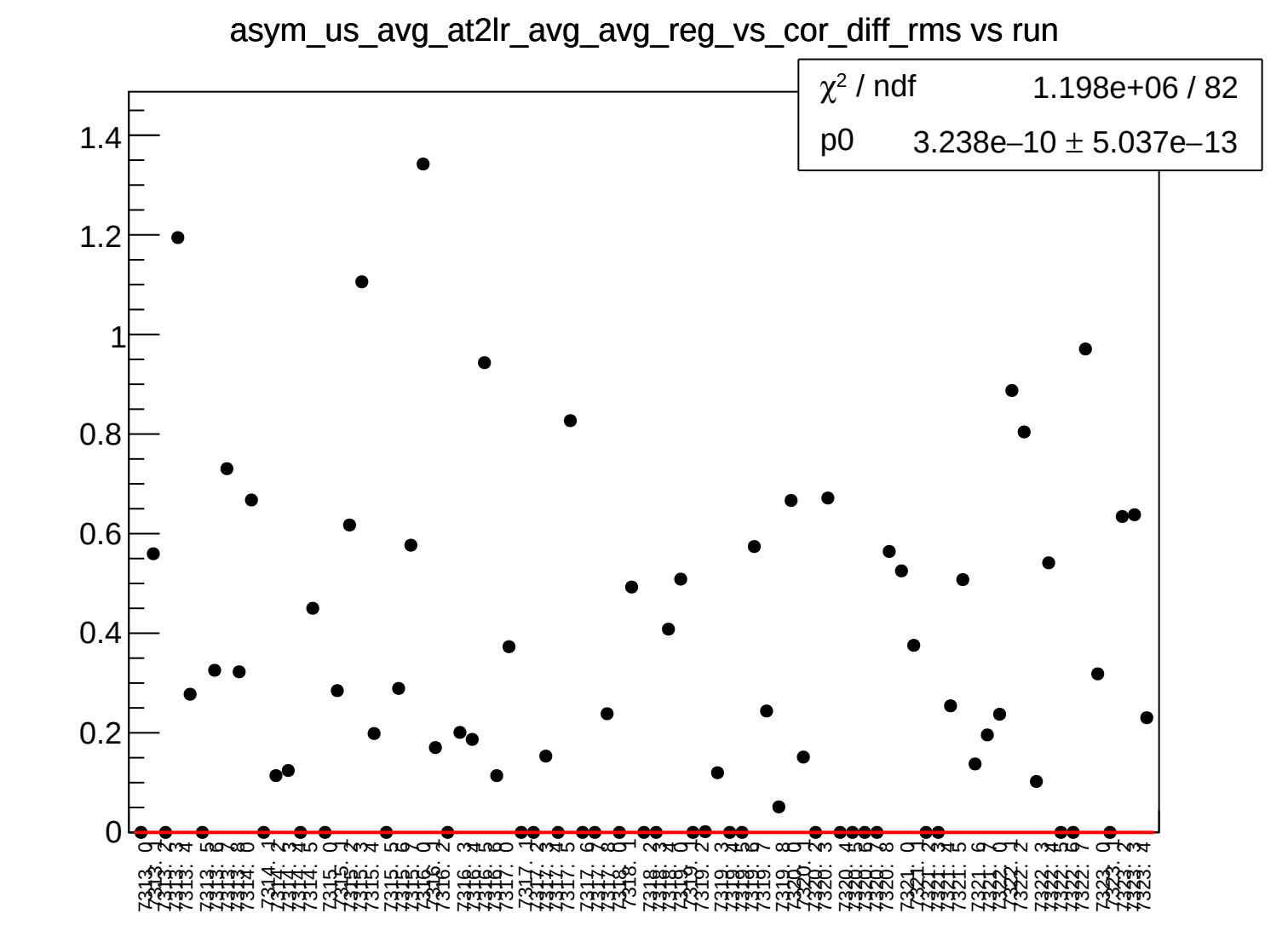

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.823e+04 / 82
p0 1.559e+04 ± 12.35
20000
18000
16000
14000
12000

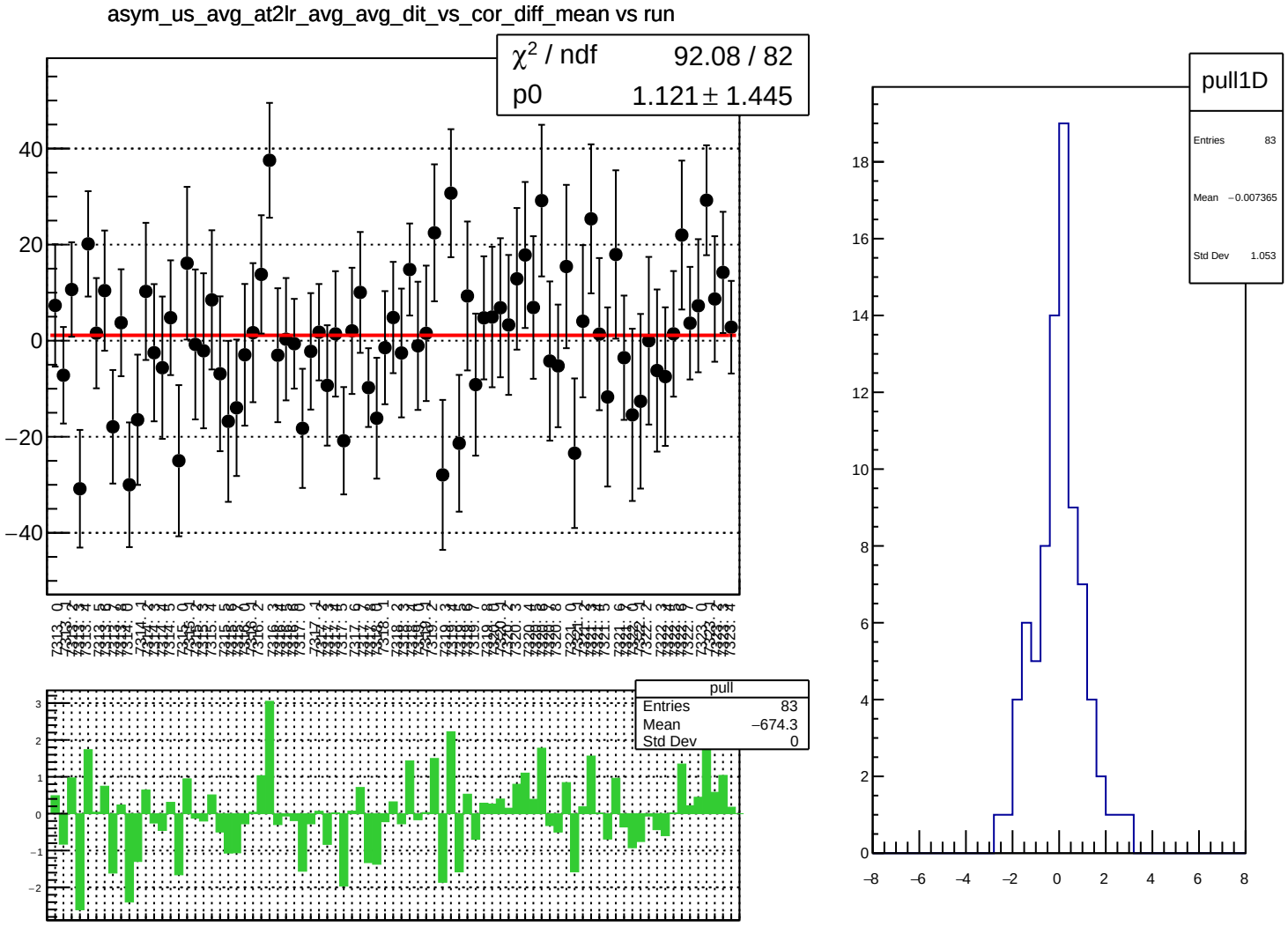

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 86.85 / 82
p0 −1.51e+04 ± 1.636e+04
400
200
0
−200
−400
−600
pull
Entries 83
Mean 3245
Std Dev 0
2
1
0
−1
−2
−3

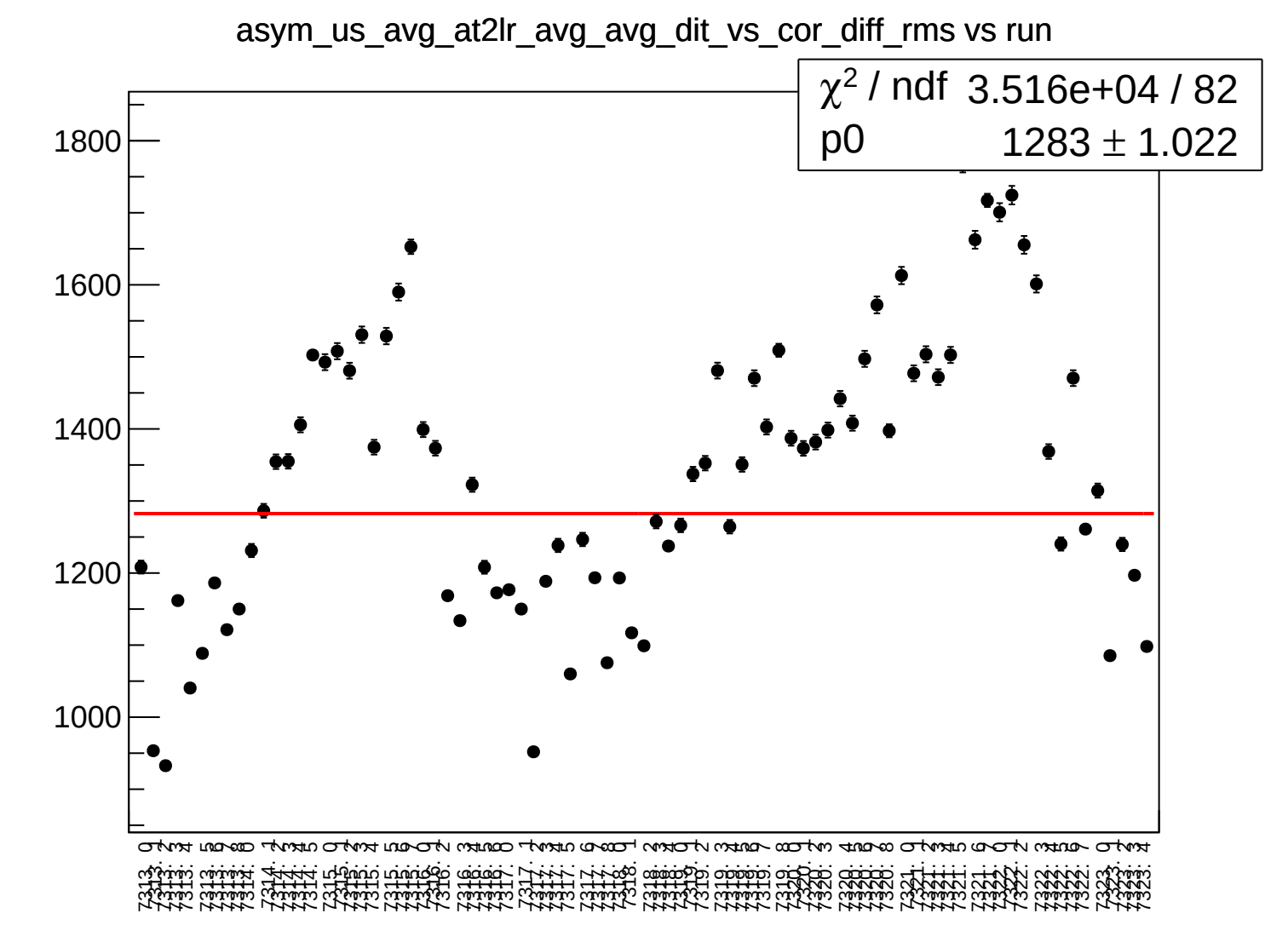

pull1D
Entries 83
Mean −0.001348
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

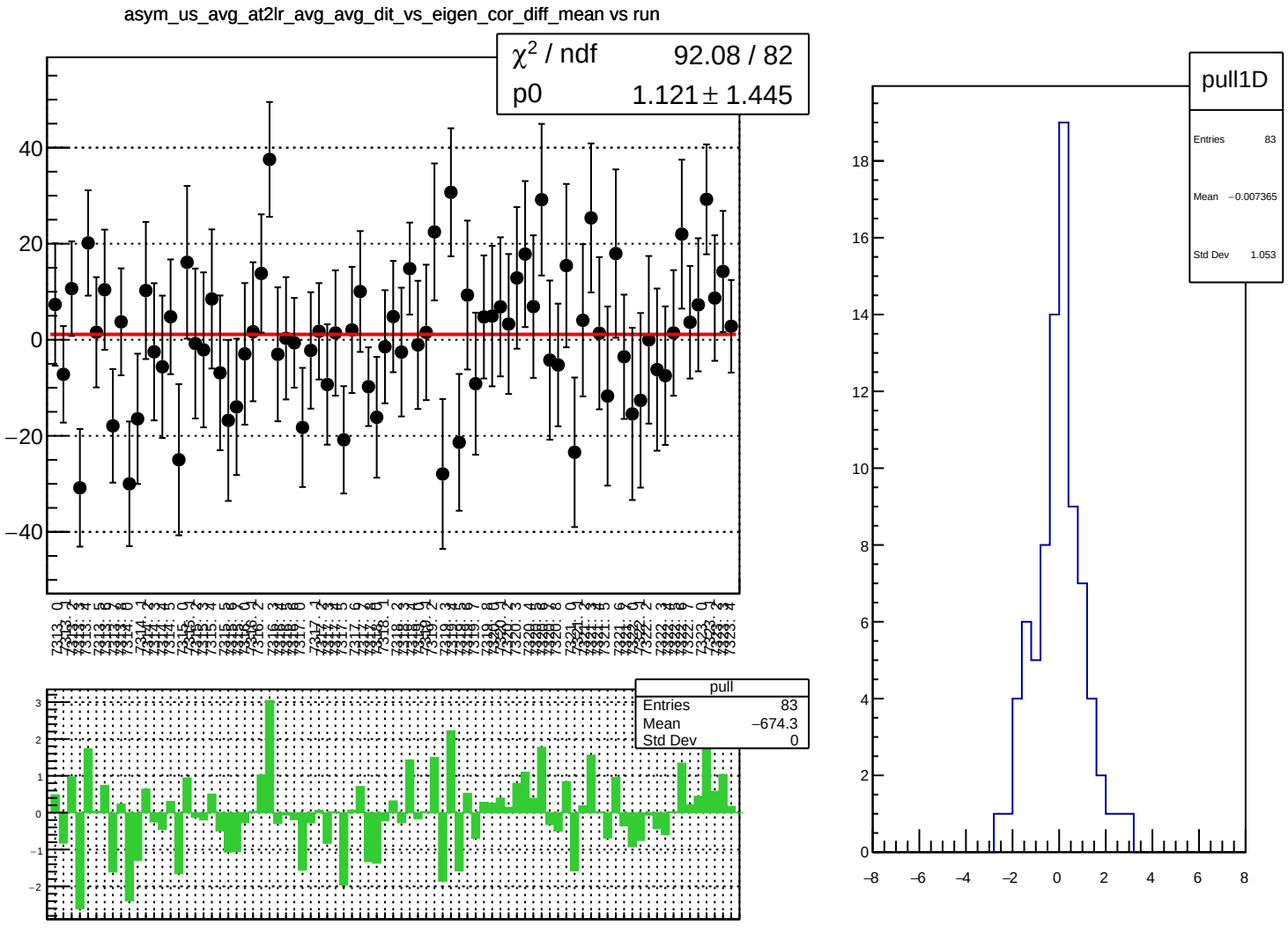

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.62e+04 / 82
p0 1.461e+04 ± 11.57
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

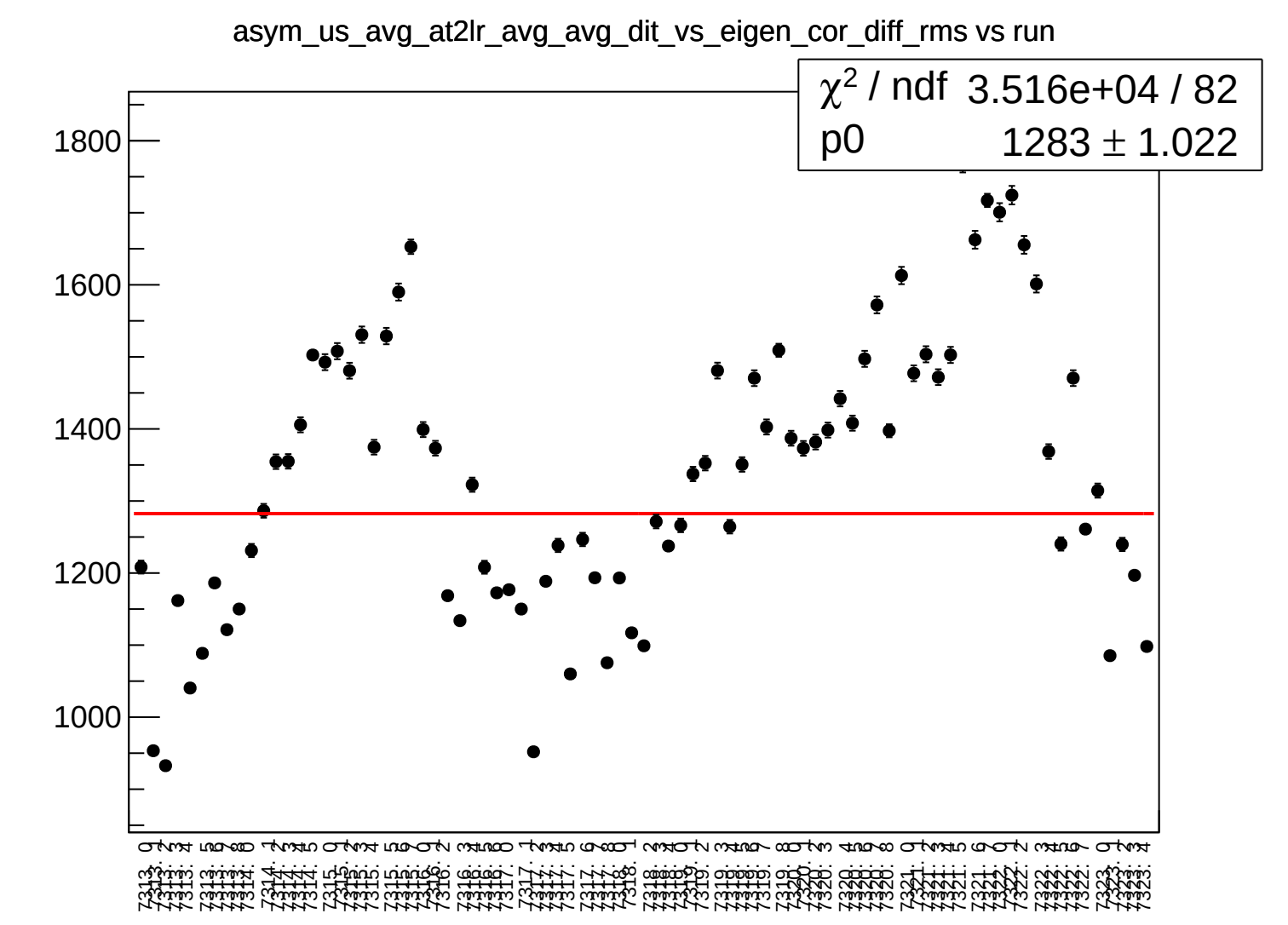

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.55 / 82
p0 1.427e−13 ± 7.123e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean 37.37
Std Dev 41.6
pull1D
Entries 83
Mean 0.01351
Std Dev 1.033

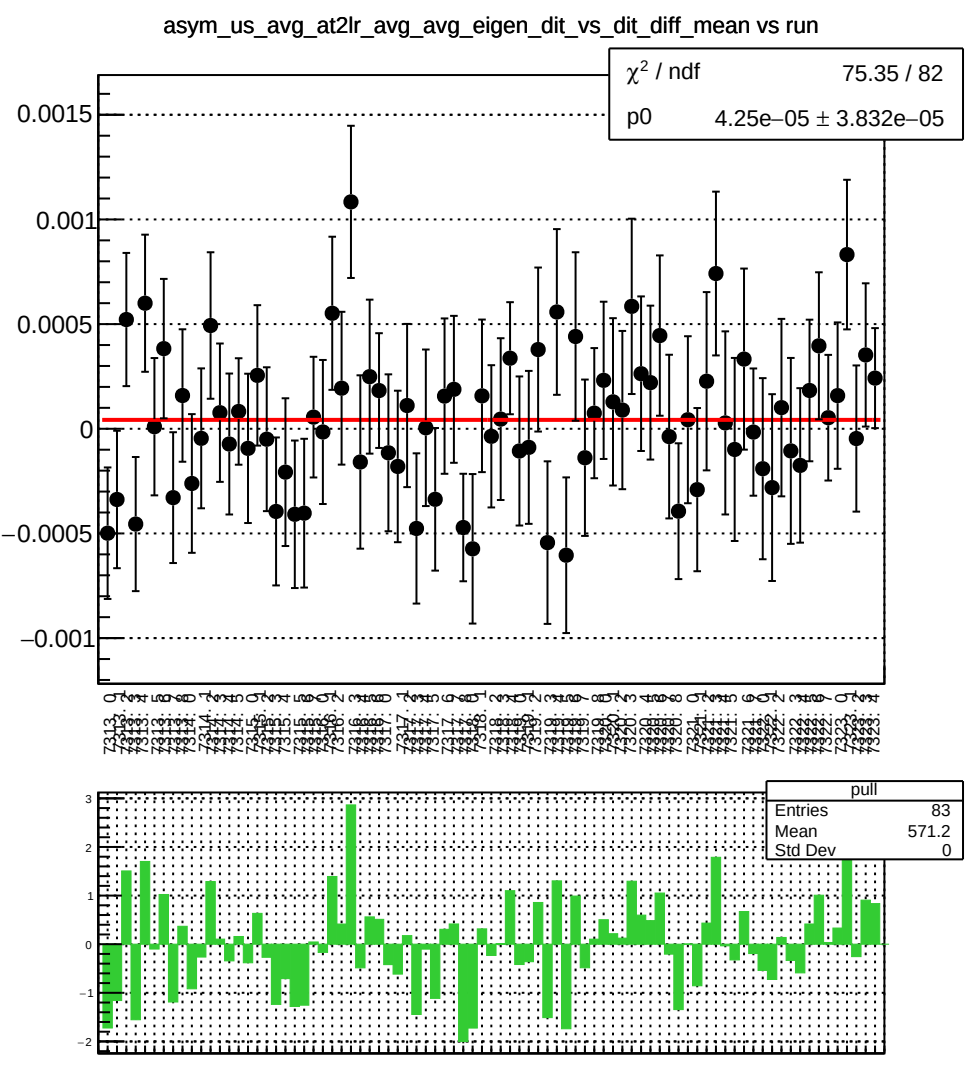

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.198e+06 / 82
p0 3.238e−10 ± 5.037e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

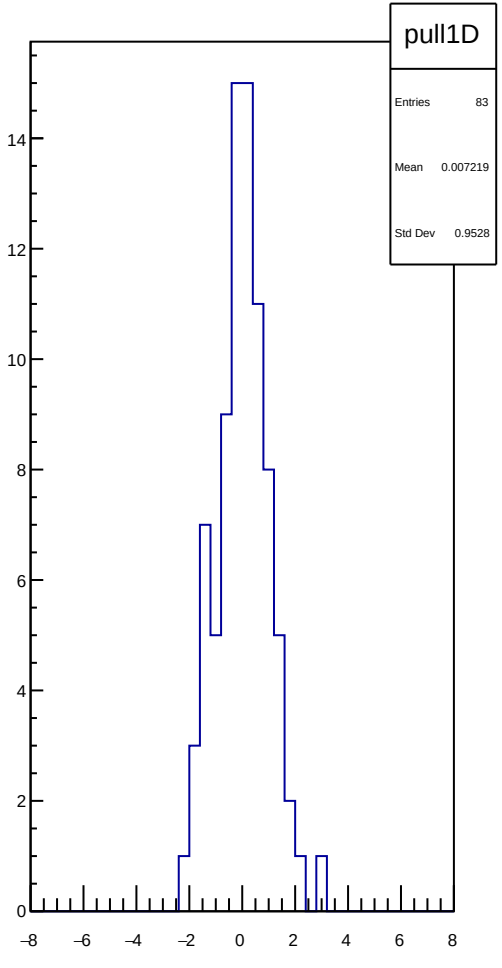

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.08 / 82
p0 1.121 ± 1.445
pull
Entries 83
Mean −674.3
Std Dev 0
pull1D
Entries 83
Mean −0.007365
Std Dev 1.053

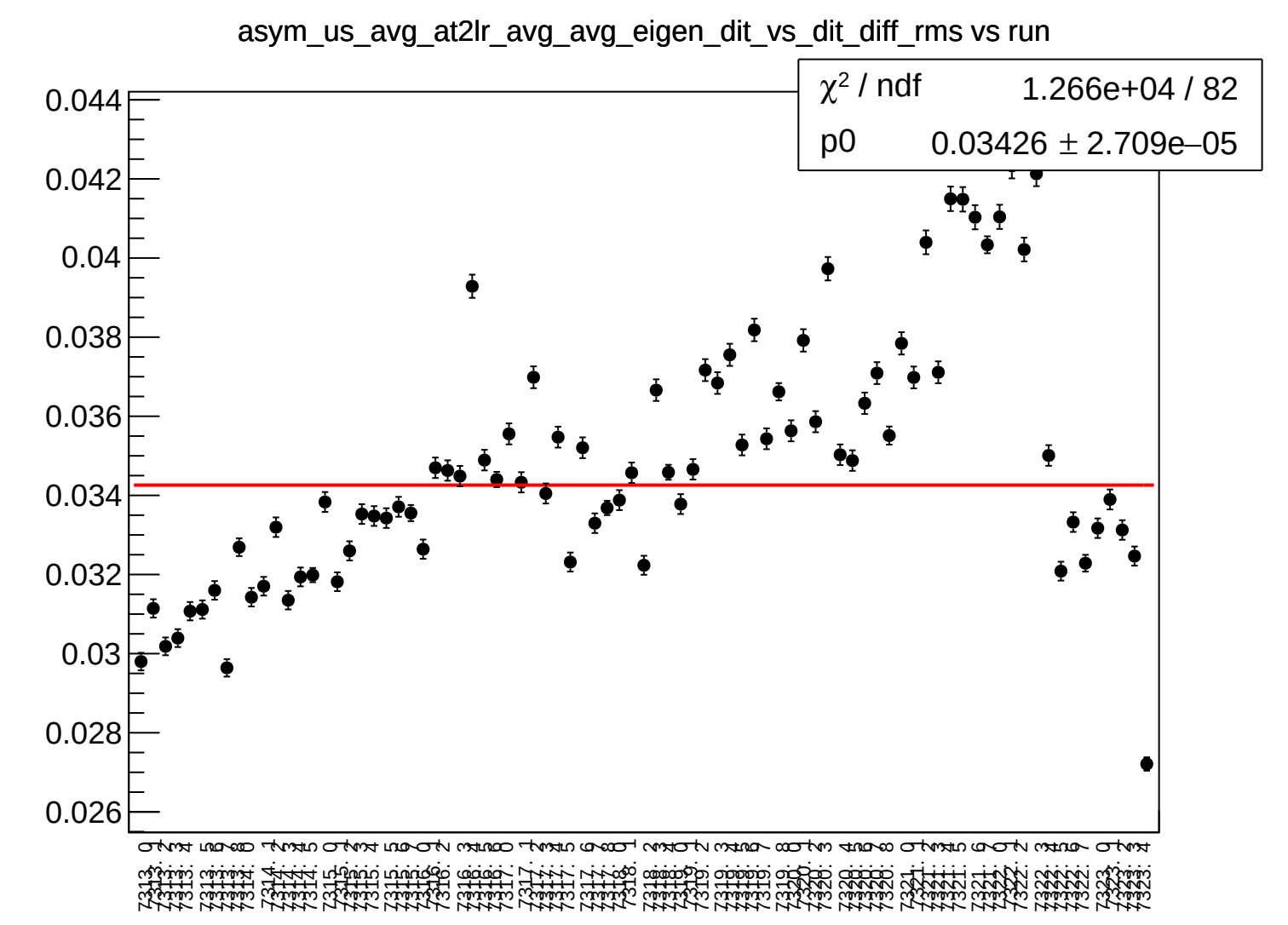

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.516e+04 / 82
p0 1283 ± 1.022
1800
1600
1400
1200
1000

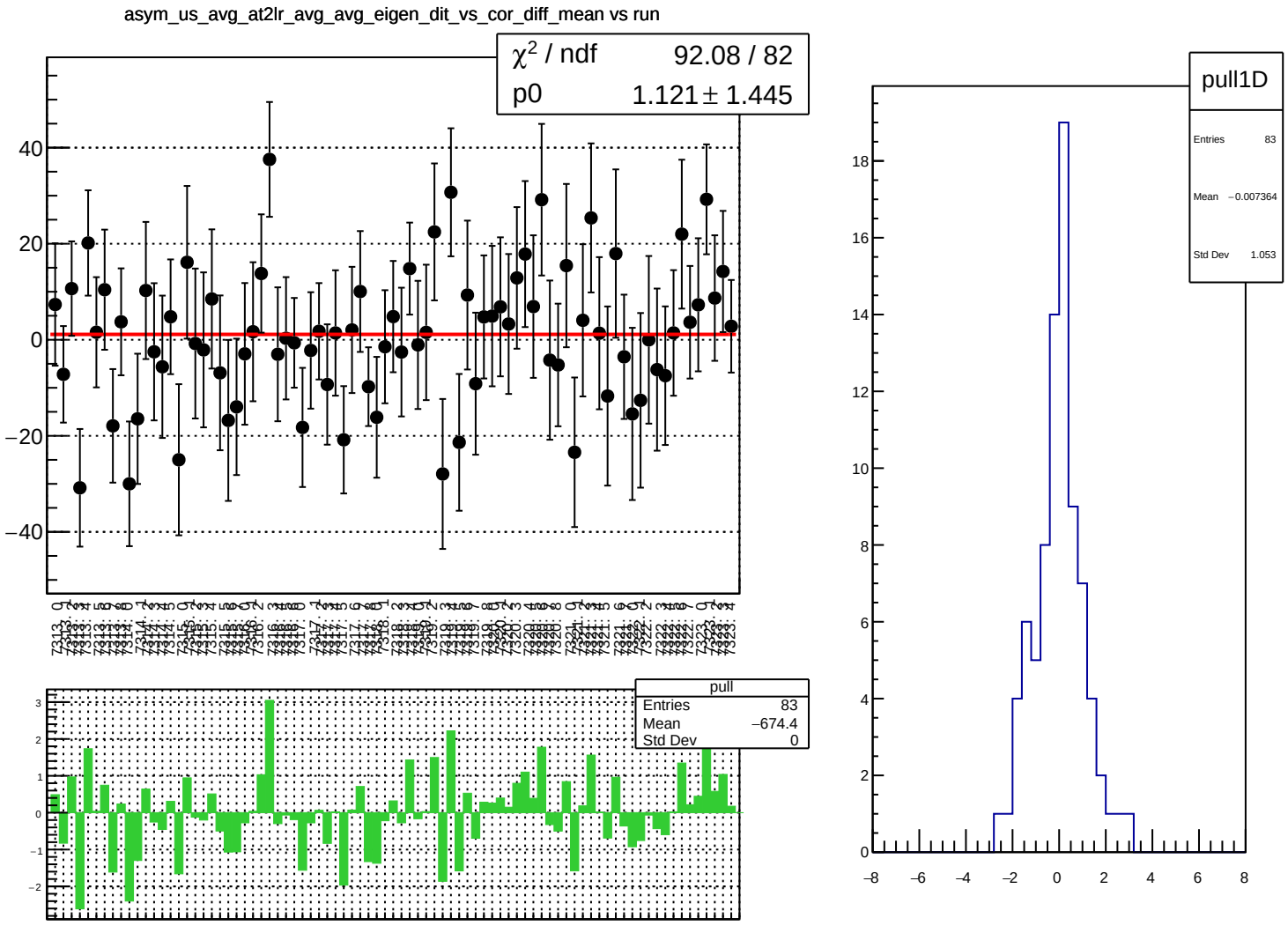

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.08 / 82
p0 1.121 ± 1.445
pull
Entries 83
Mean −674.3
Std Dev 0
pull1D
Entries 83
Mean −0.007365
Std Dev 1.053

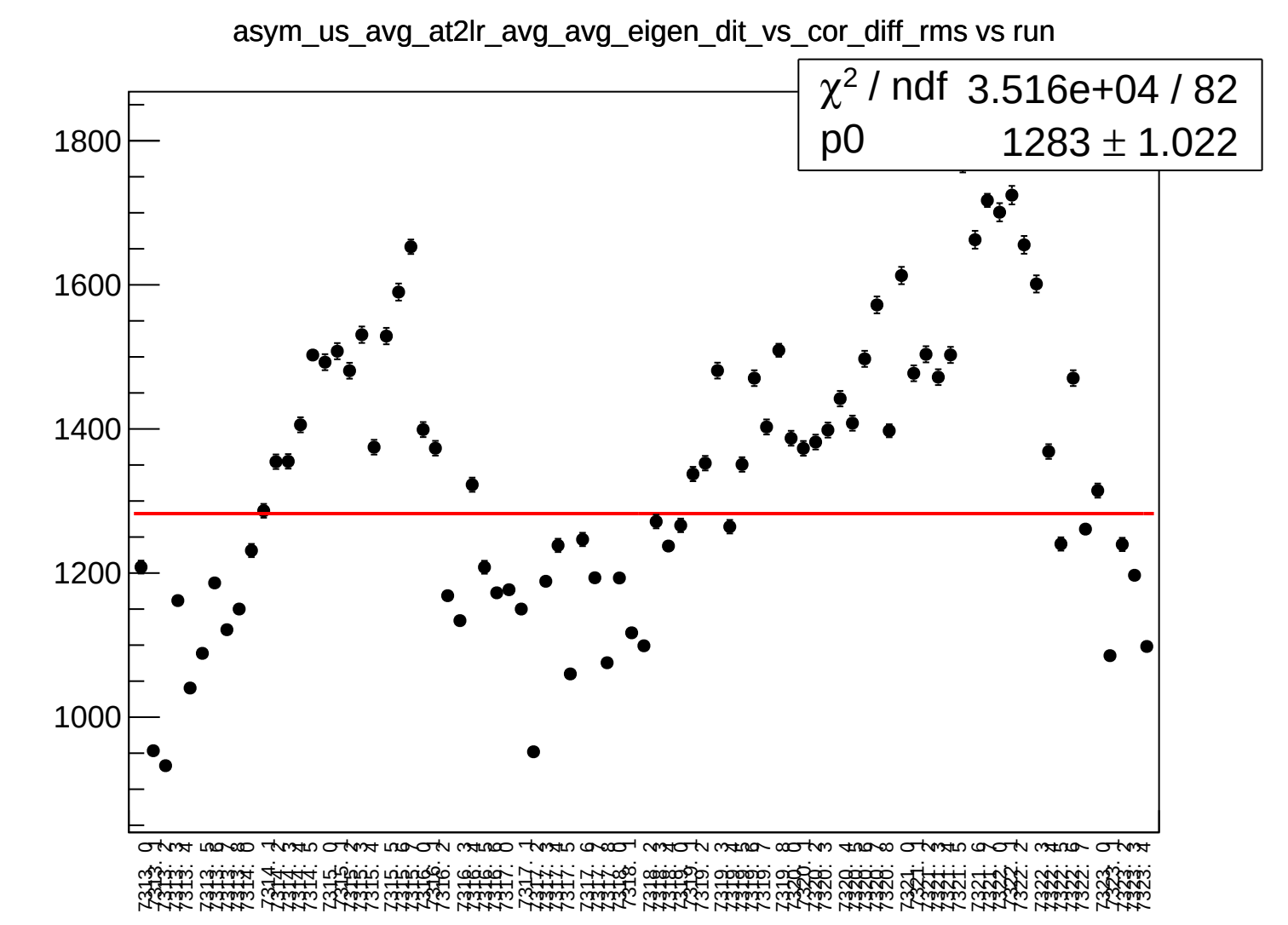

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.516e+04 / 82
p0 1283 ± 1.022
1800
1600
1400
1200
1000

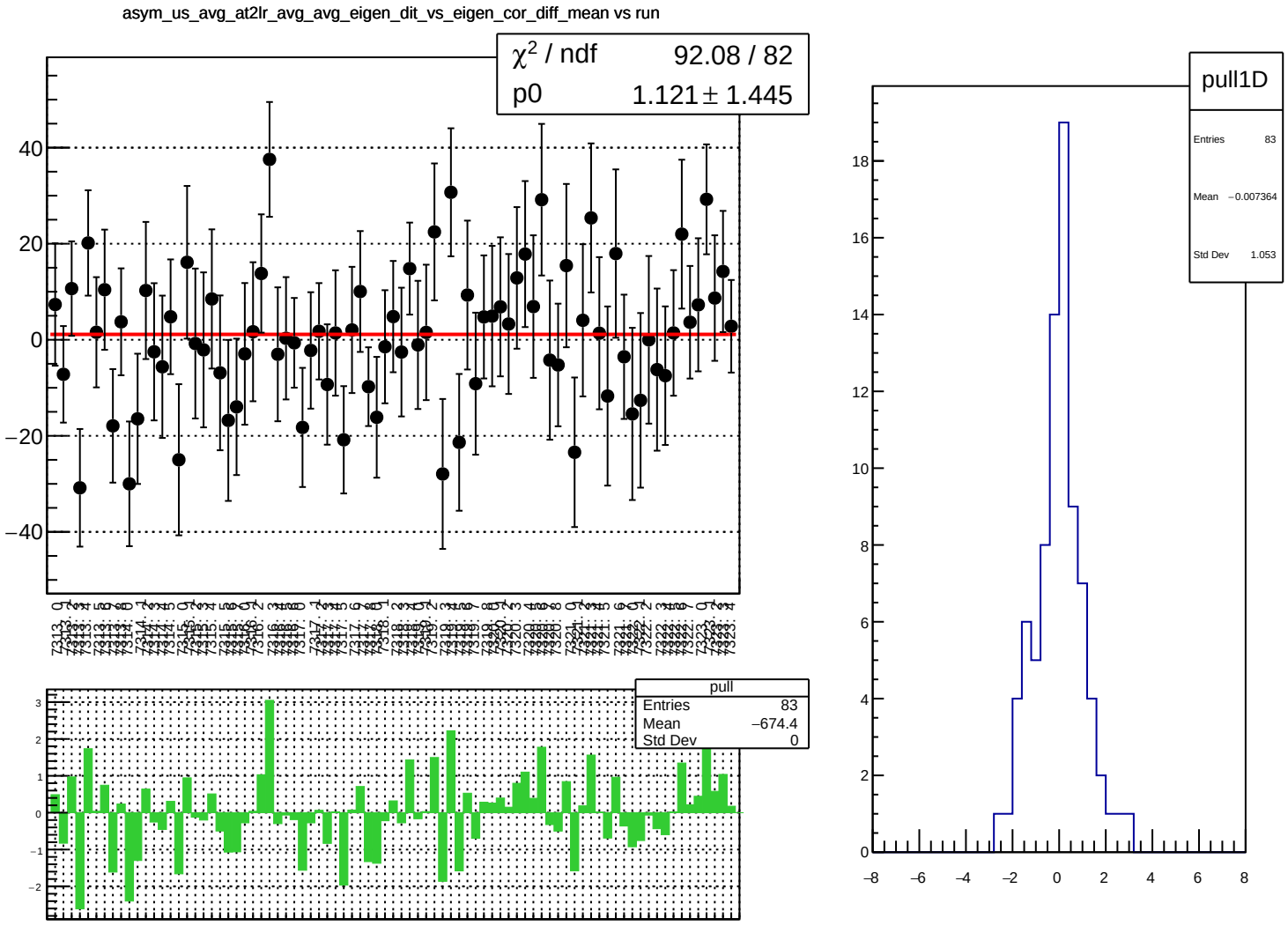

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.35 / 82
p0 4.25e−05 ± 3.832e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 571.2
Std Dev 0

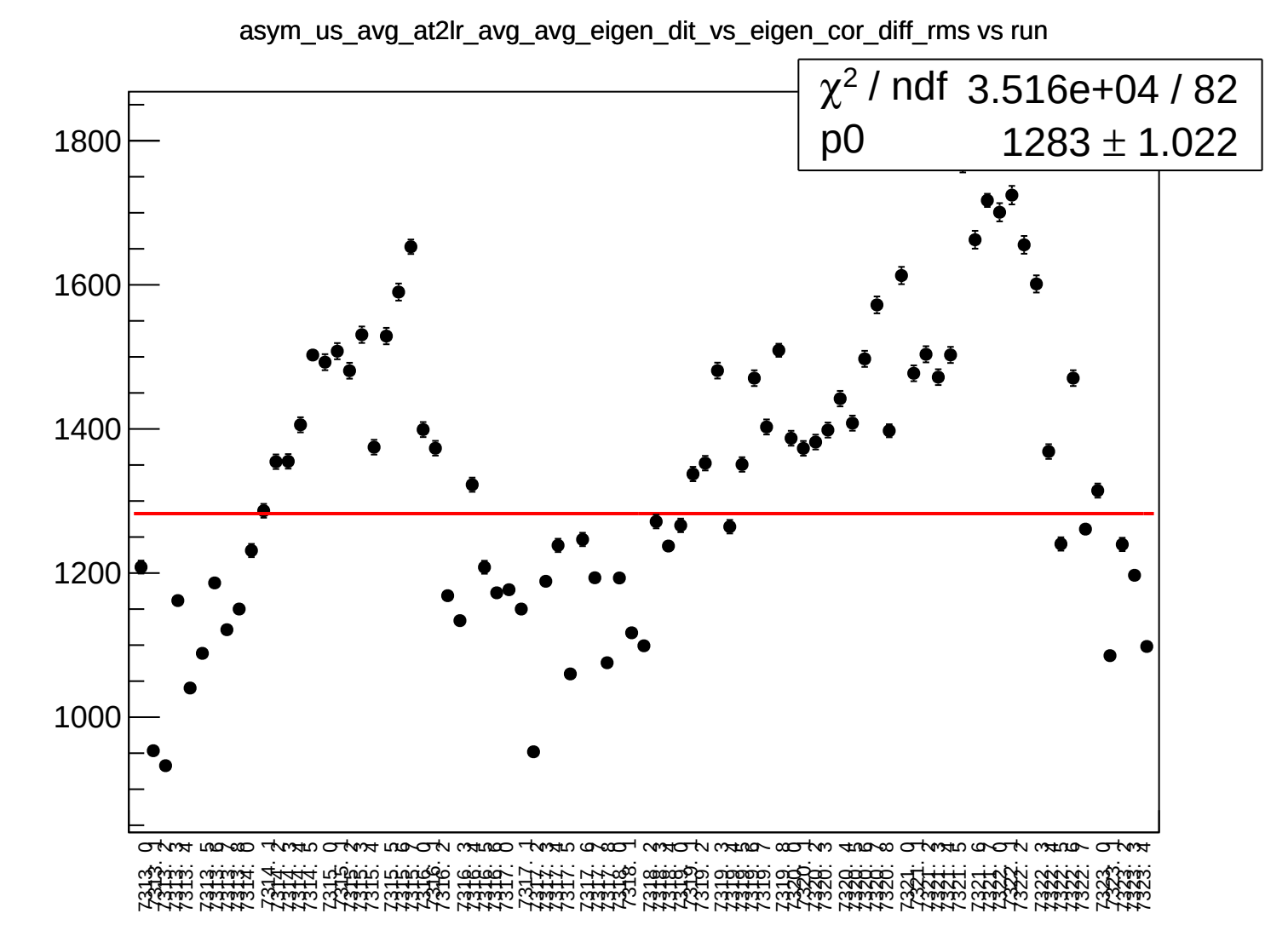

pull1D
Entries 83
Mean 0.007219
Std Dev 0.9528

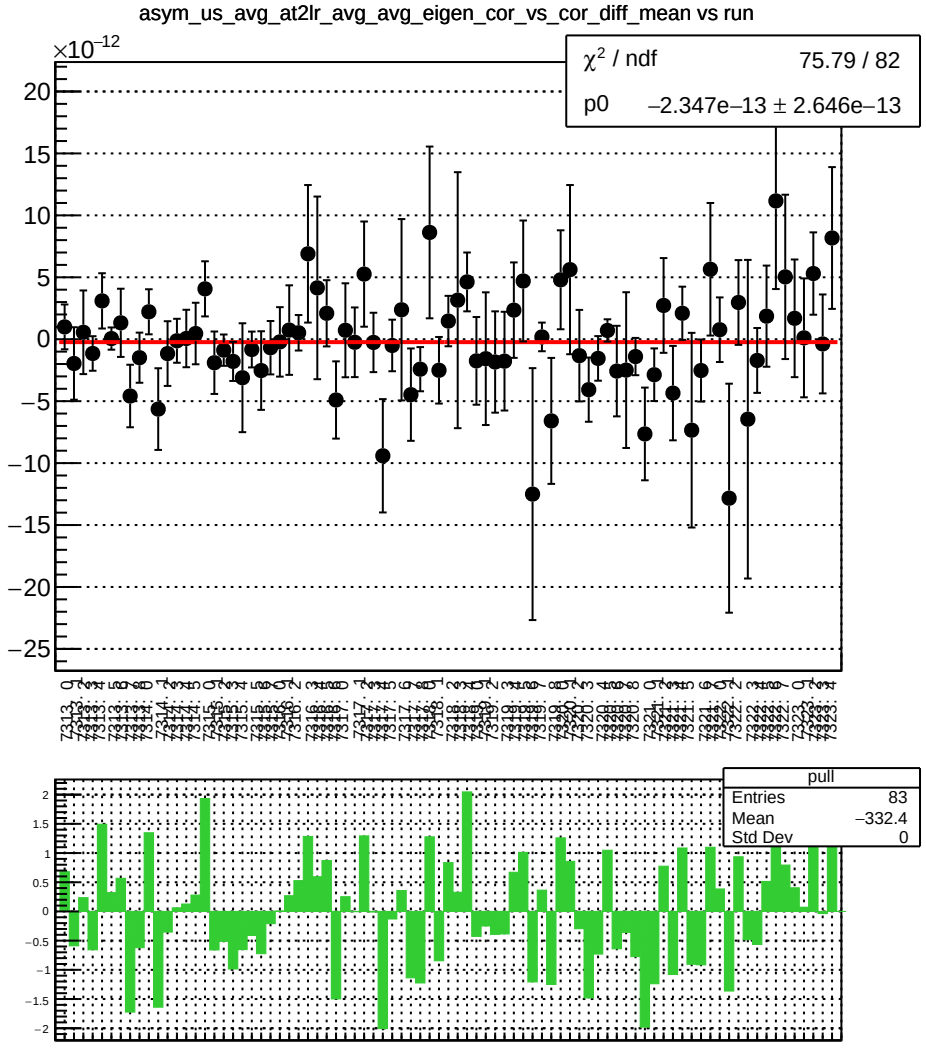

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.266e+04 / 82
p0 0.03426 ± 2.709e−05
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026

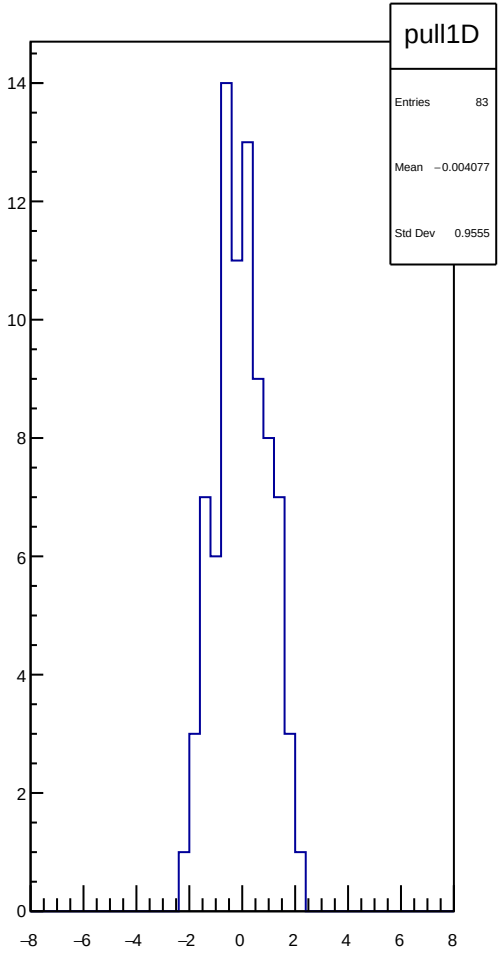

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.08 / 82
p0 1.121 ± 1.445
40
20
0
−20
−40
pull
Entries 83
Mean −674.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.007364
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

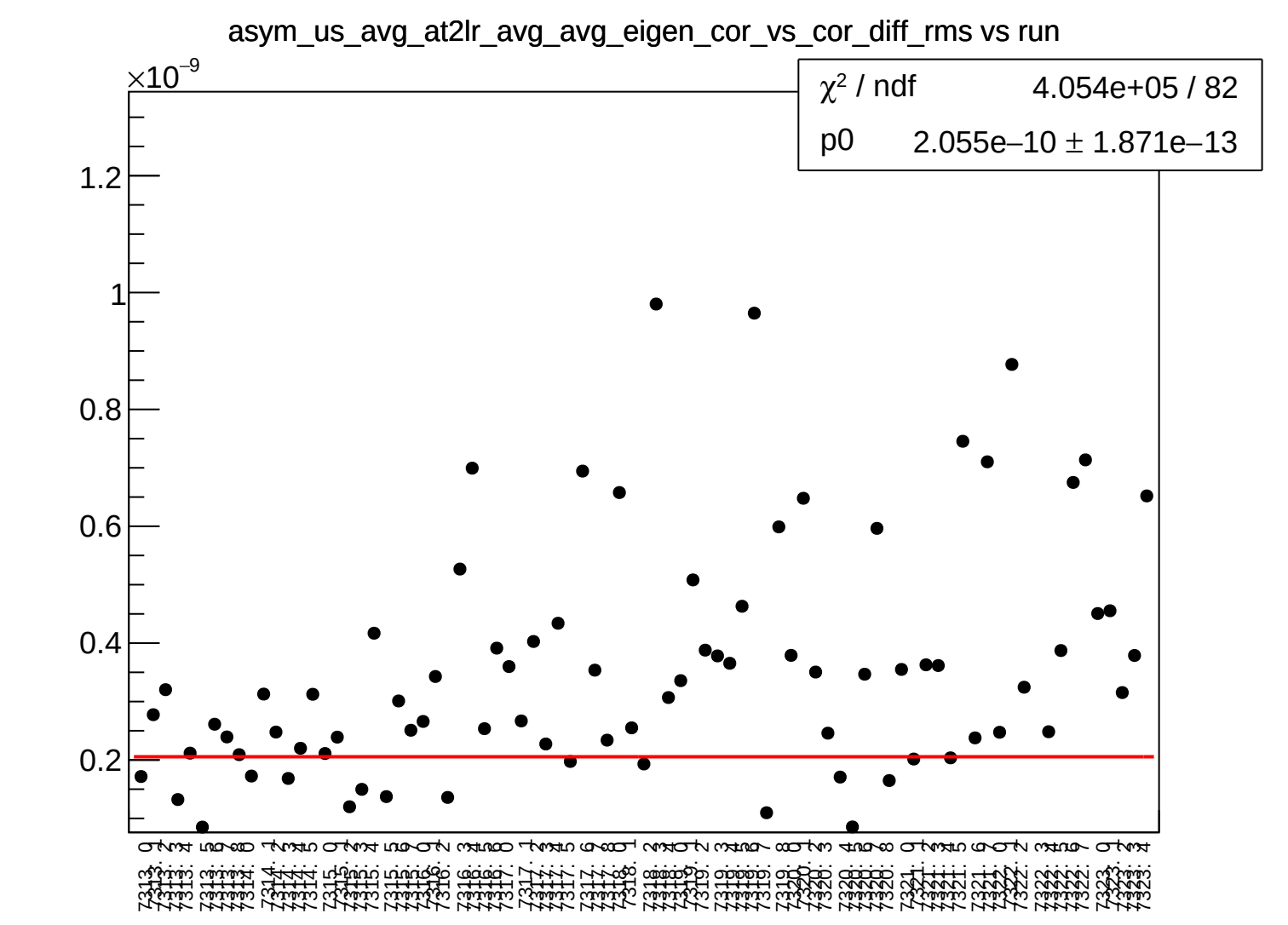

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.516e+04 / 82
p0 1283 ± 1.022
1800
1600
1400
1200
1000

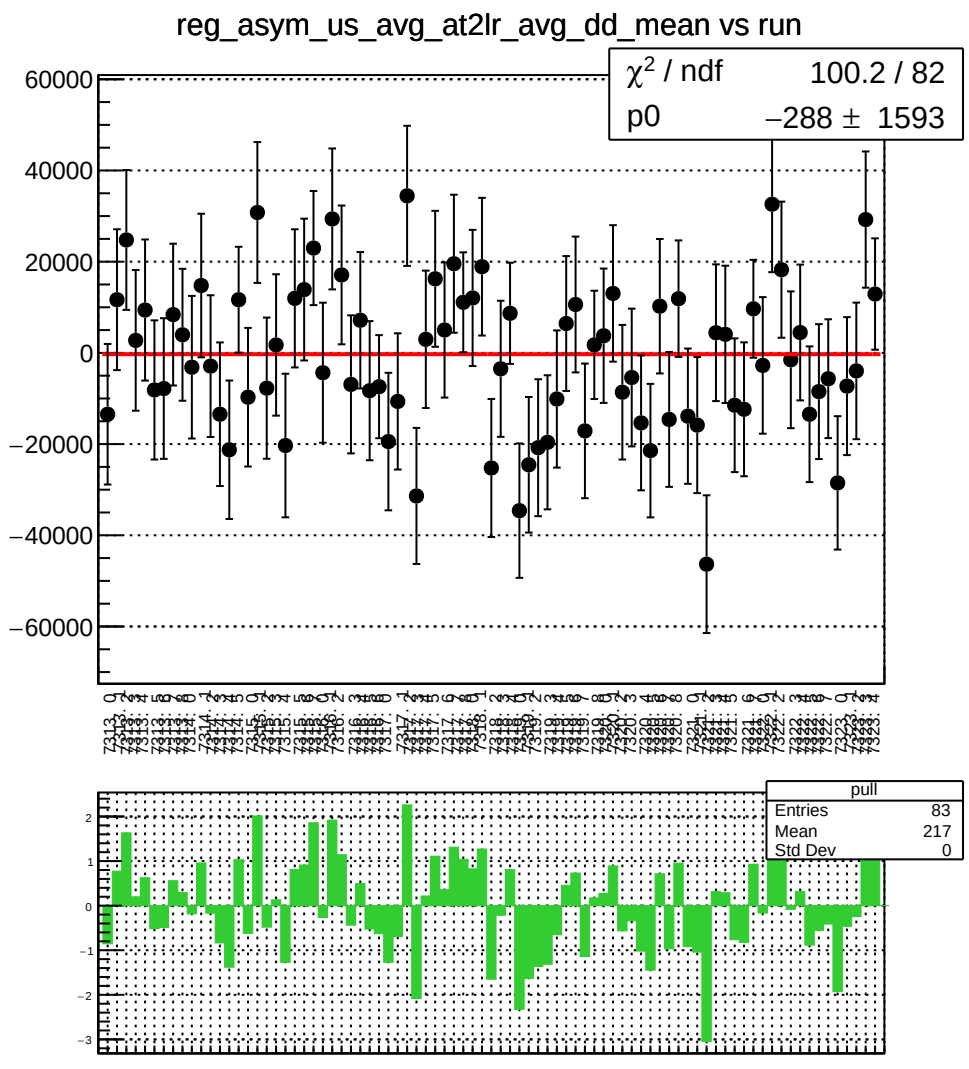

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.08 / 82
p0 1.121 ± 1.445
pull
Entries 83
Mean −674.4
Std Dev 0
pull1D
Entries 83
Mean −0.007364
Std Dev 1.053

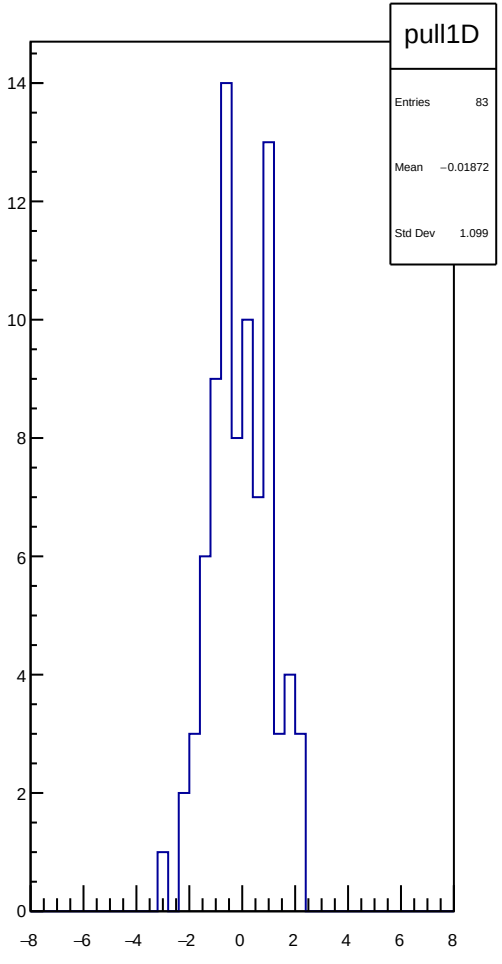

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.516e+04 / 82
p0 1283 ± 1.022
1800
1600
1400
1200
1000

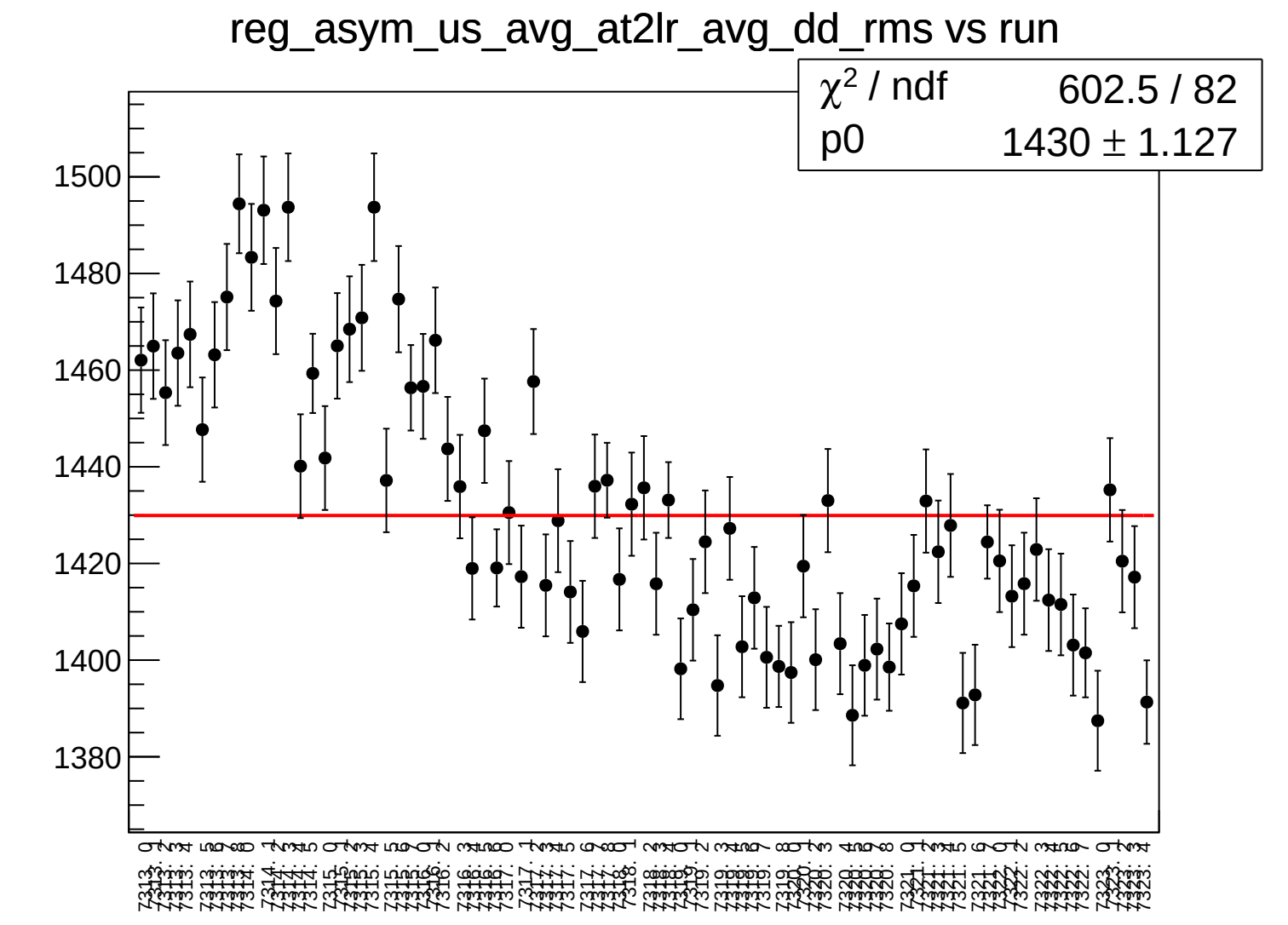

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.79 / 82
p0 −2.347e−13 ± 2.646e−13
pull
Entries 83
Mean −332.4
Std Dev 0

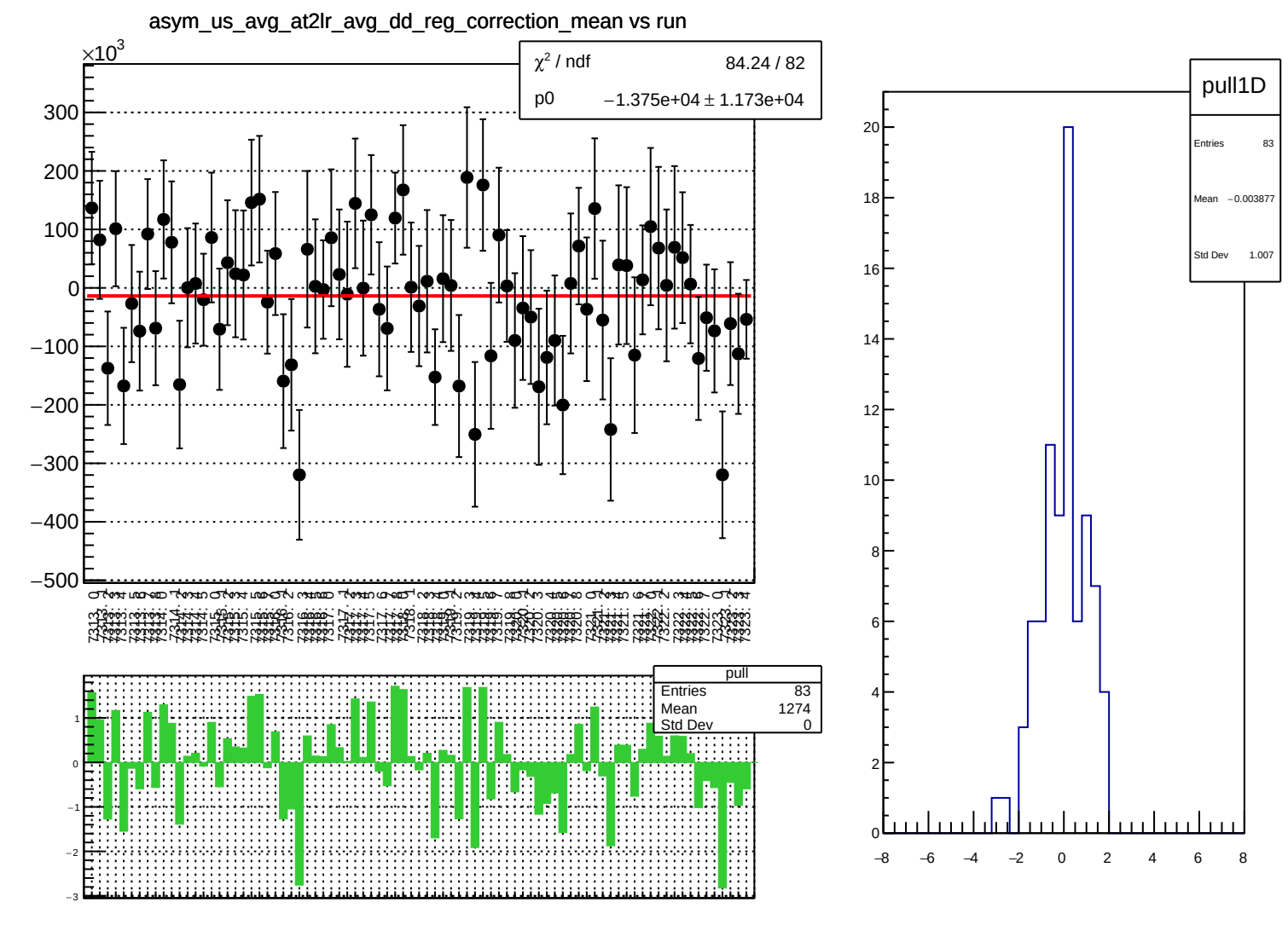

pull1D
Entries 83
Mean −0.004077
Std Dev 0.9555

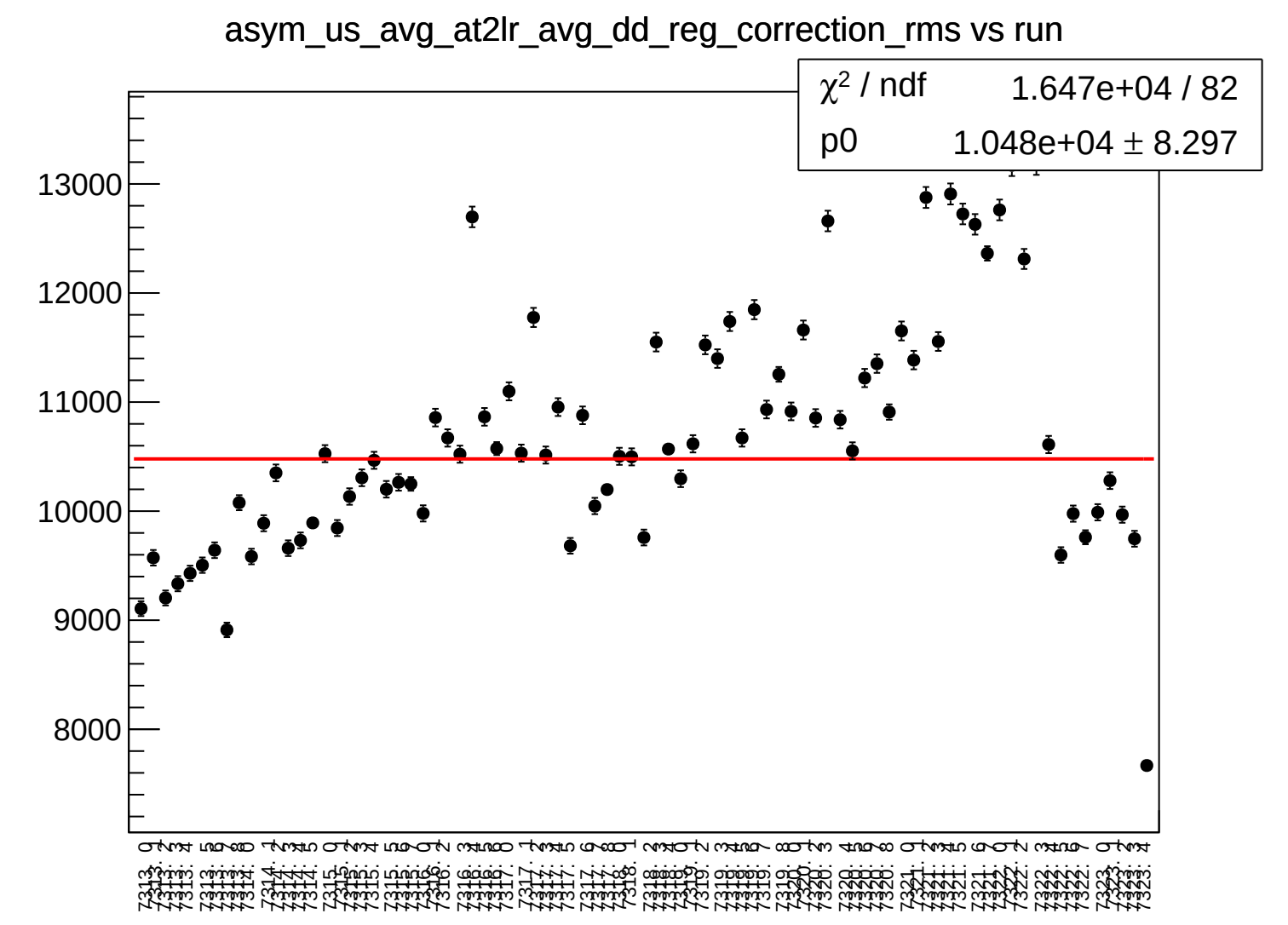

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.054e+05 / 82
p0 2.055e−10 ± 1.871e−13
1.2
1
0.8
0.6
0.4
0.2

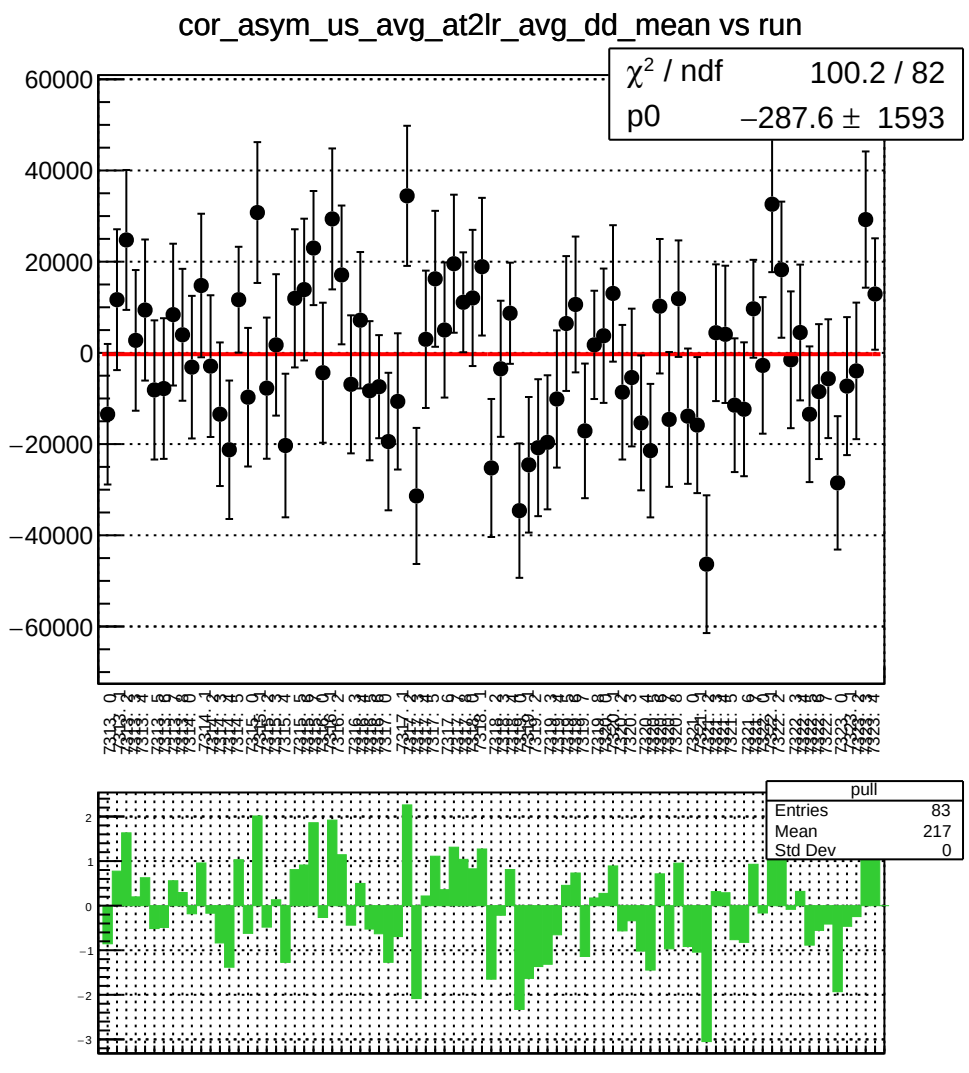

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.2 / 82
p0 −288 ± 1593
pull
Entries 83
Mean 217
Std Dev 0

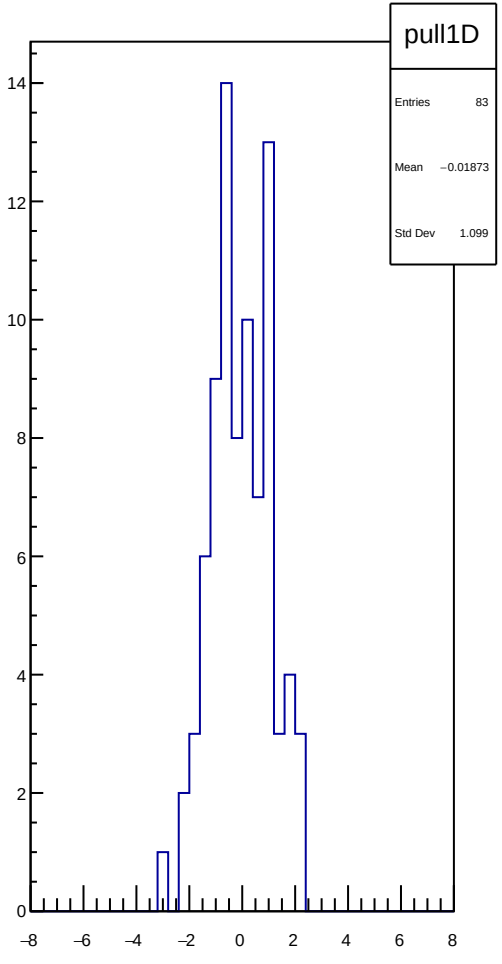

pull1D
Entries 83
Mean −0.01872
Std Dev 1.099

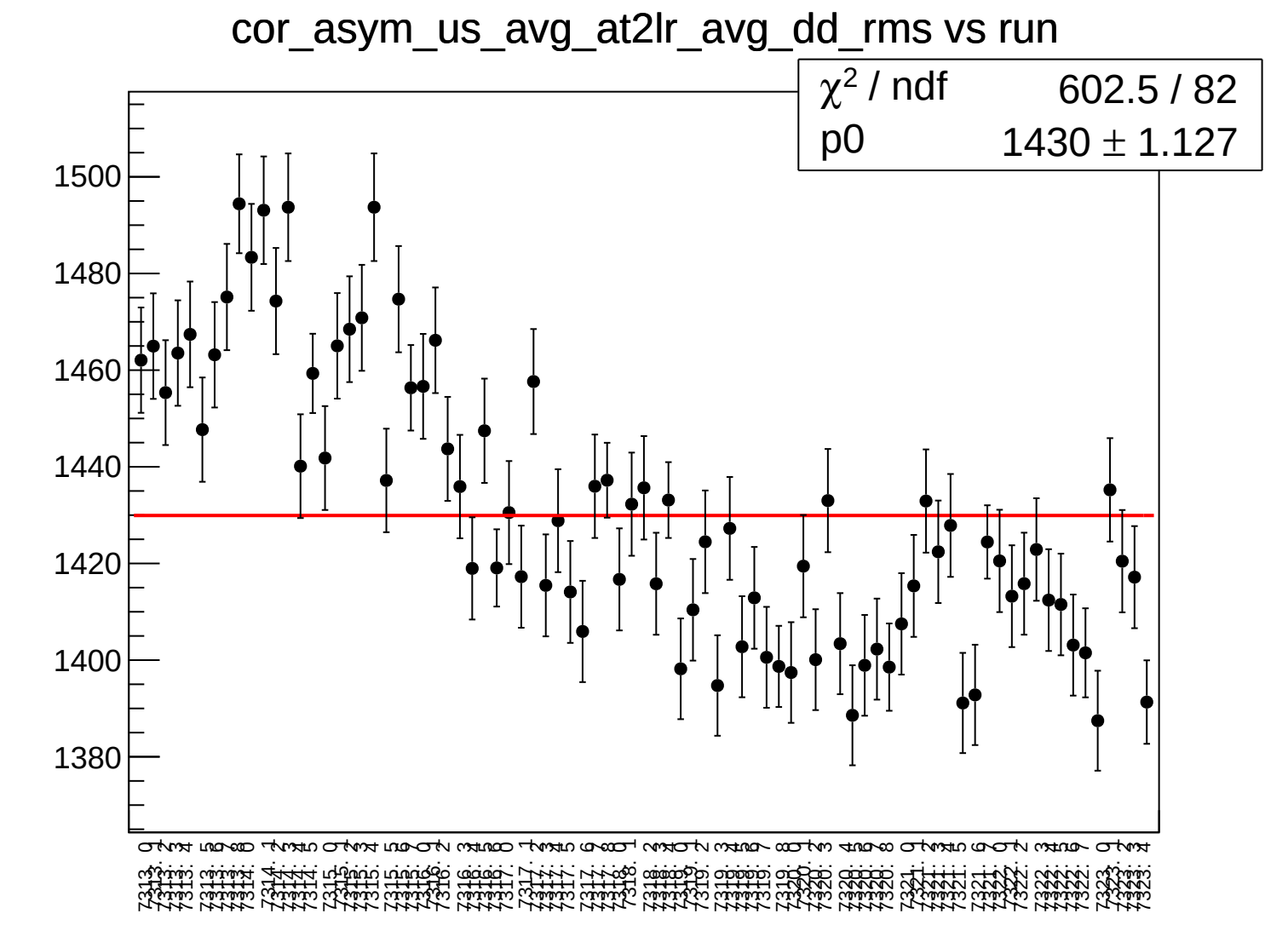

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 602.5 / 82
p0 1430 ± 1.127
1500
1480
1460
1440
1420
1400
1380

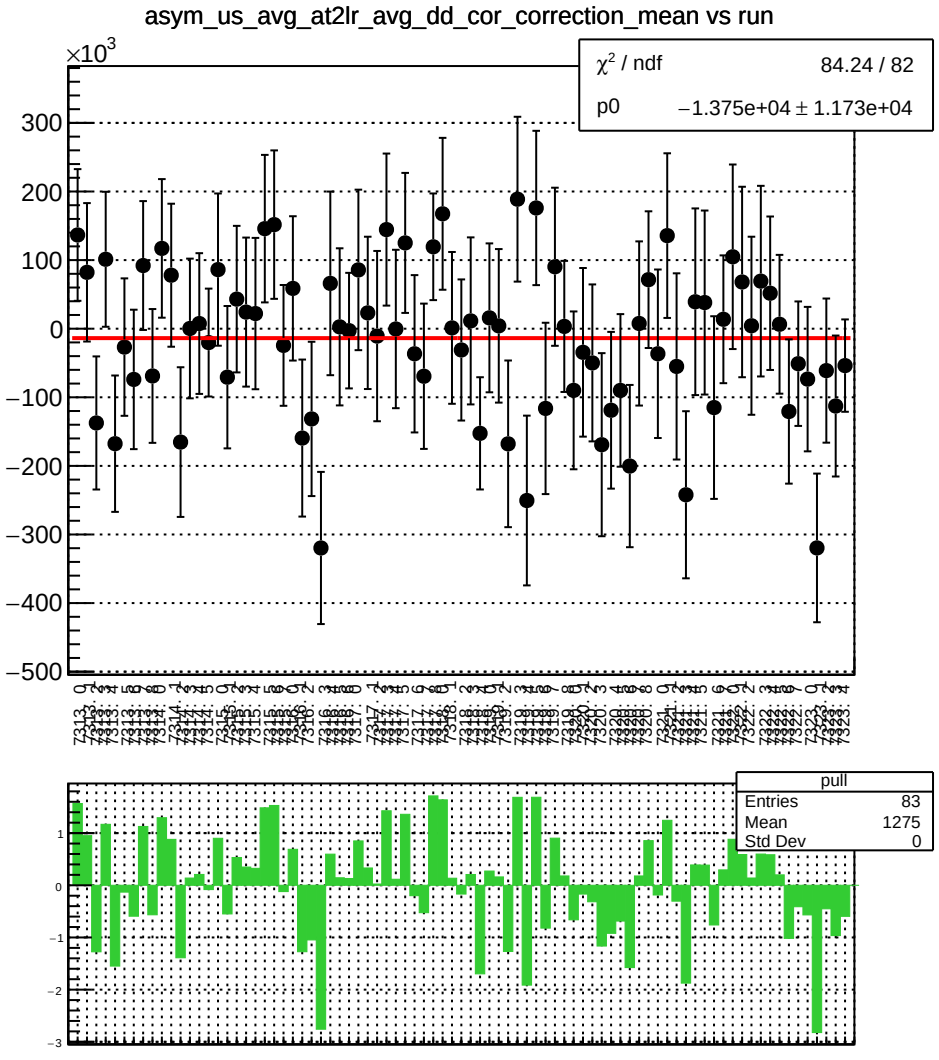

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.24 / 82
p0 −1.375e+04 ± 1.173e+04
pull
Entries 83
Mean 1274
Std Dev 0
pull1D
Entries 83
Mean −0.003877
Std Dev 1.007

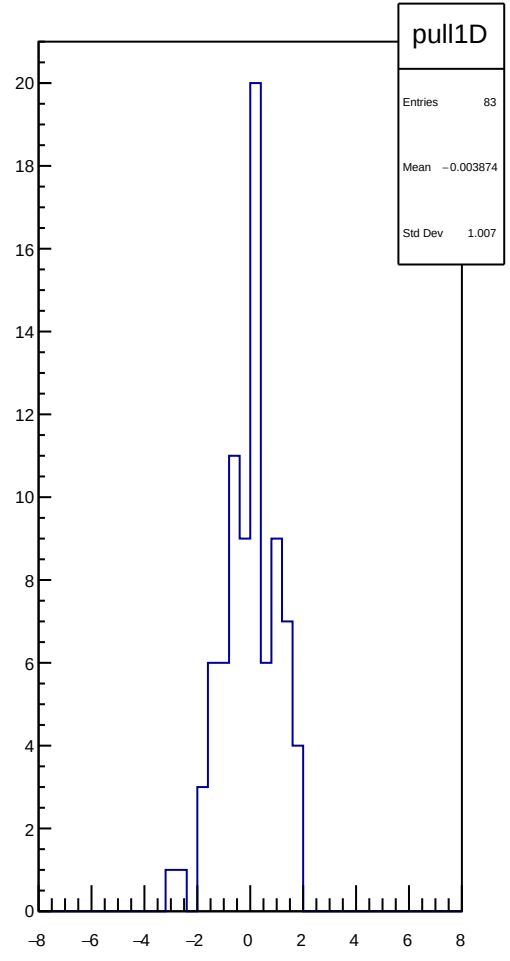

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.647e+04 / 82
p0 1.048e+04 ± 8.297
13000
12000
11000
10000
9000
8000

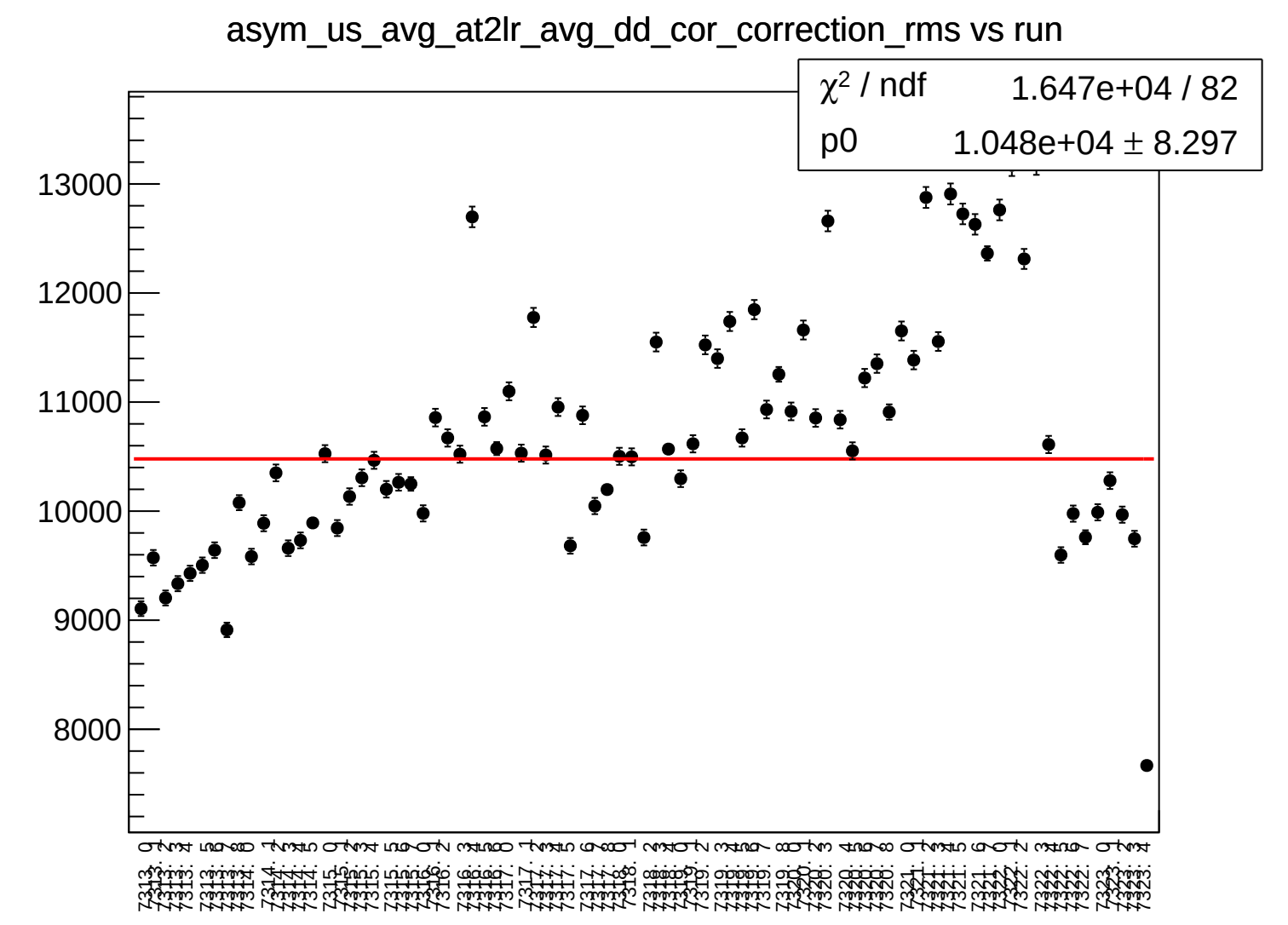

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.2 / 82
p0 −287.6 ± 1593
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 217
Std Dev 0
2
1
0
−1
−2
−3

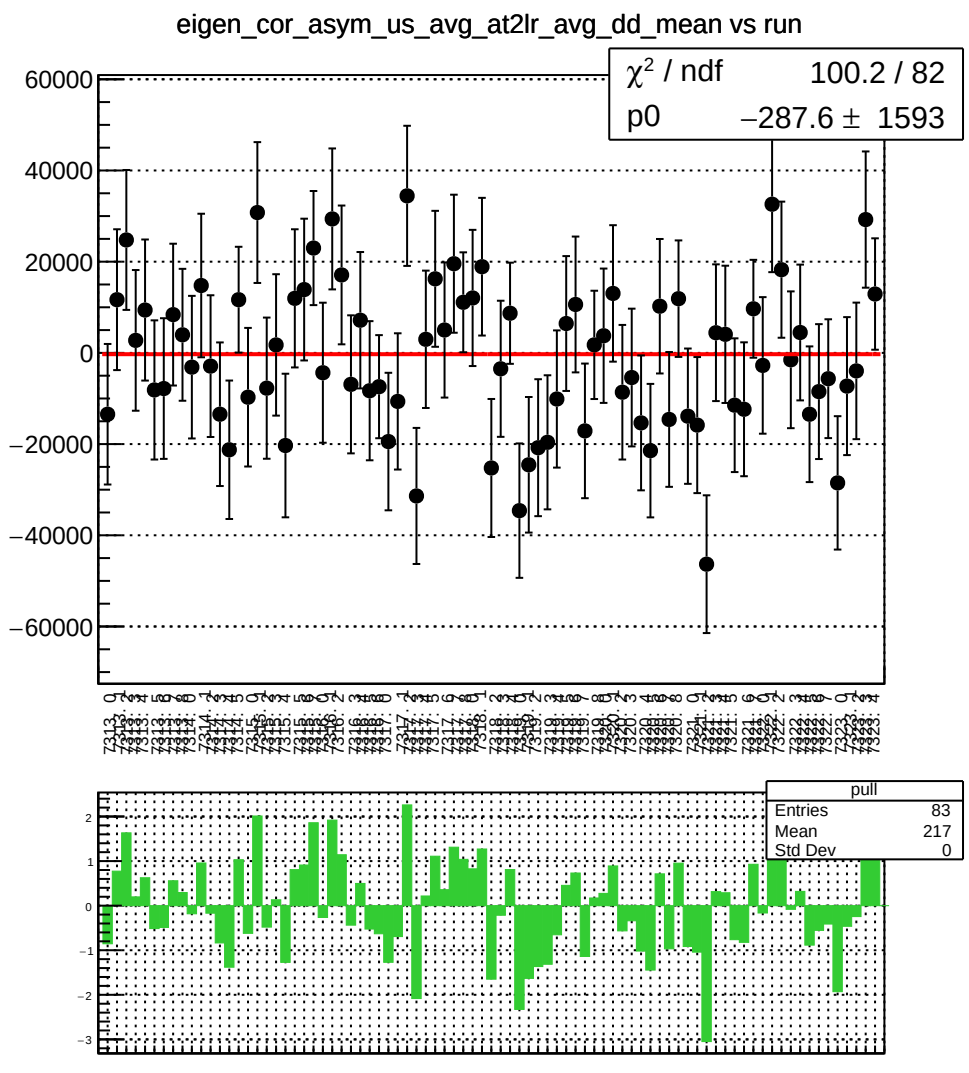

pull1D
Entries 83
Mean −0.01873
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

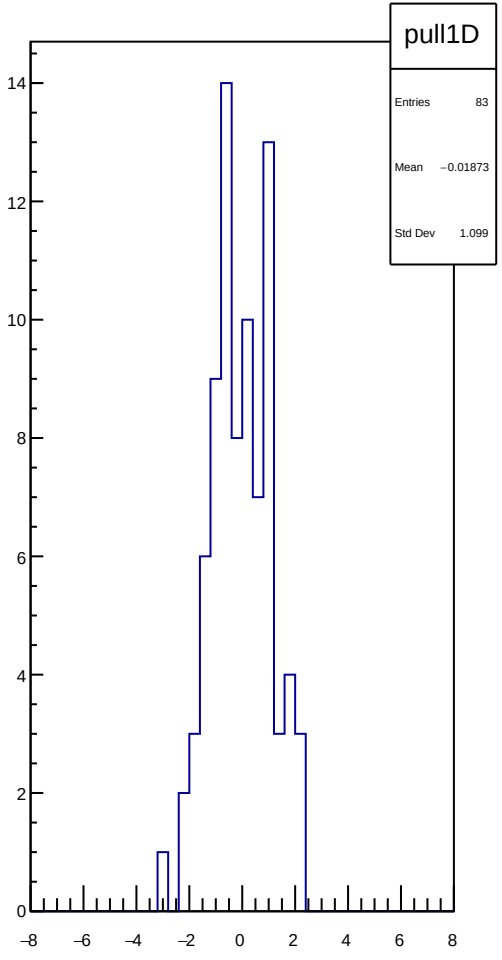

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 602.5 / 82
p0 1430 ± 1.127
1500
1480
1460
1440
1420
1400
1380

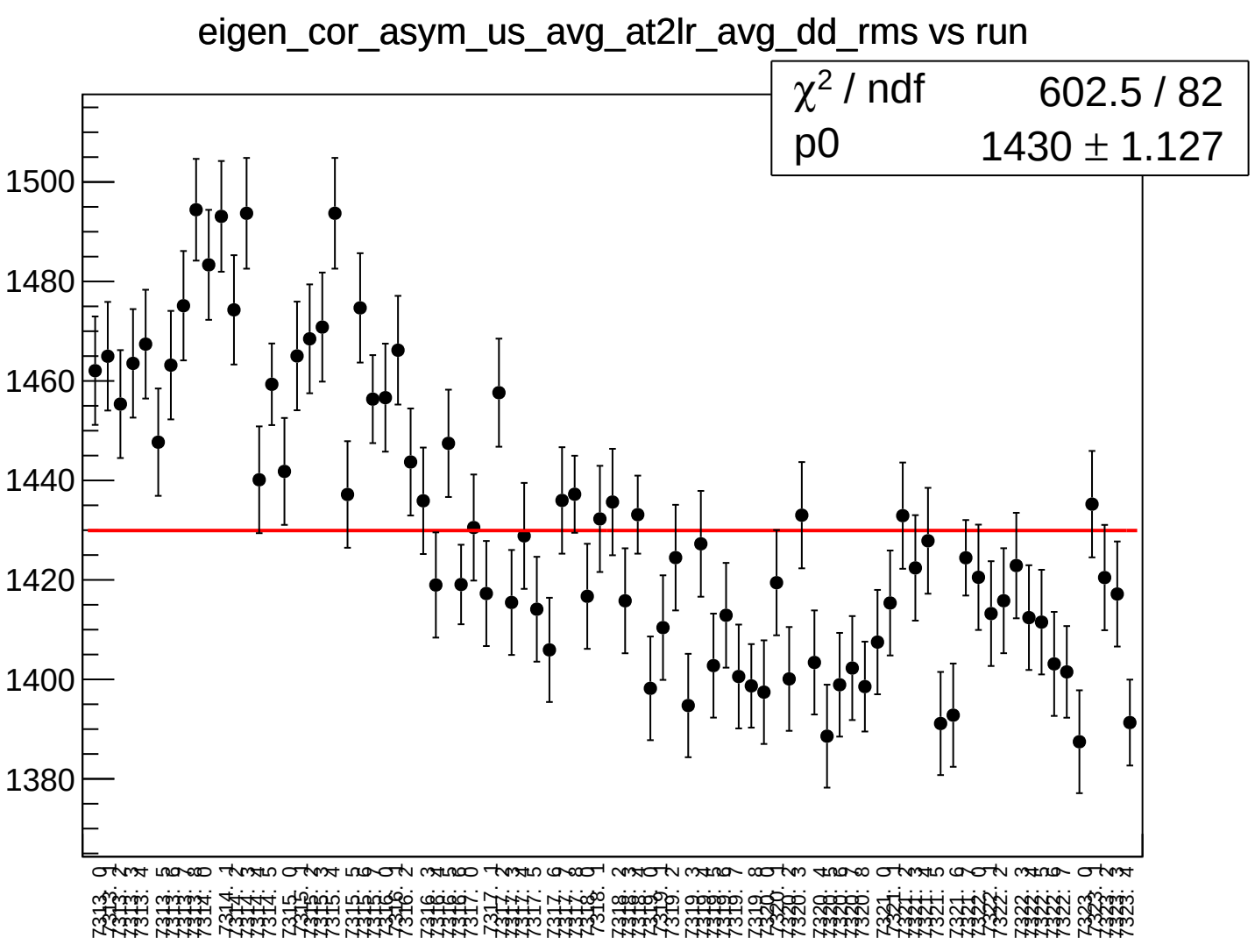

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.24 / 82
p0 −1.375e+04 ± 1.173e+04
pull
Entries 83
Mean 1275
Std Dev 0

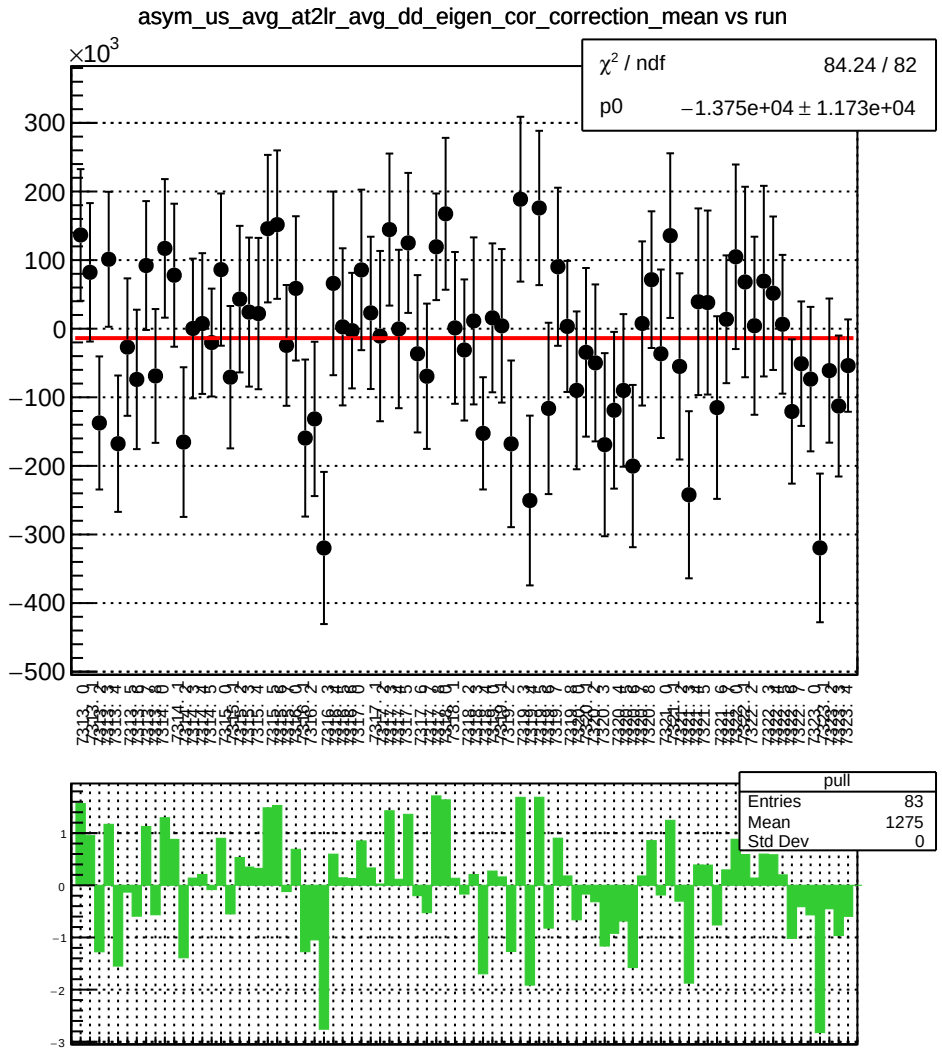

pull1D
Entries 83
Mean −0.003874
Std Dev 1.007

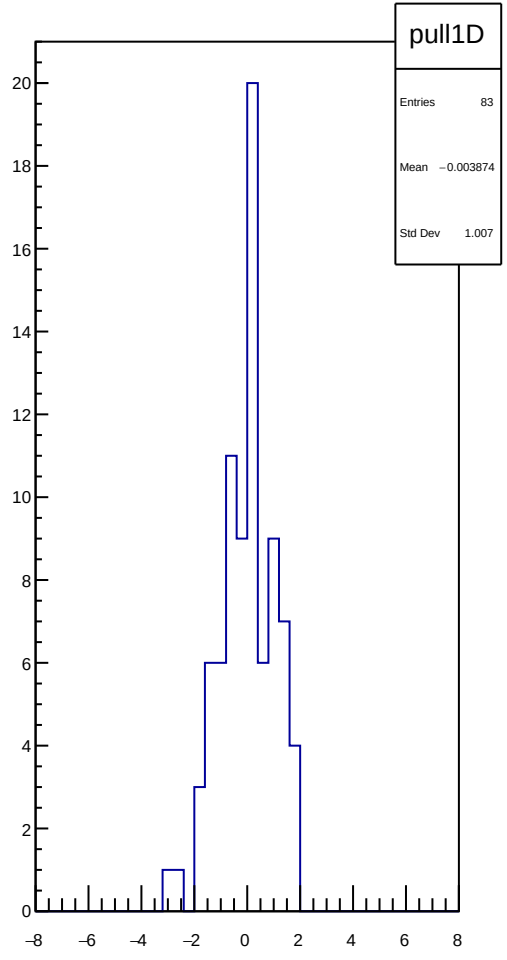

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.647e+04 / 82
p0 1.048e+04 ± 8.297
13000
12000
11000
10000
9000
8000

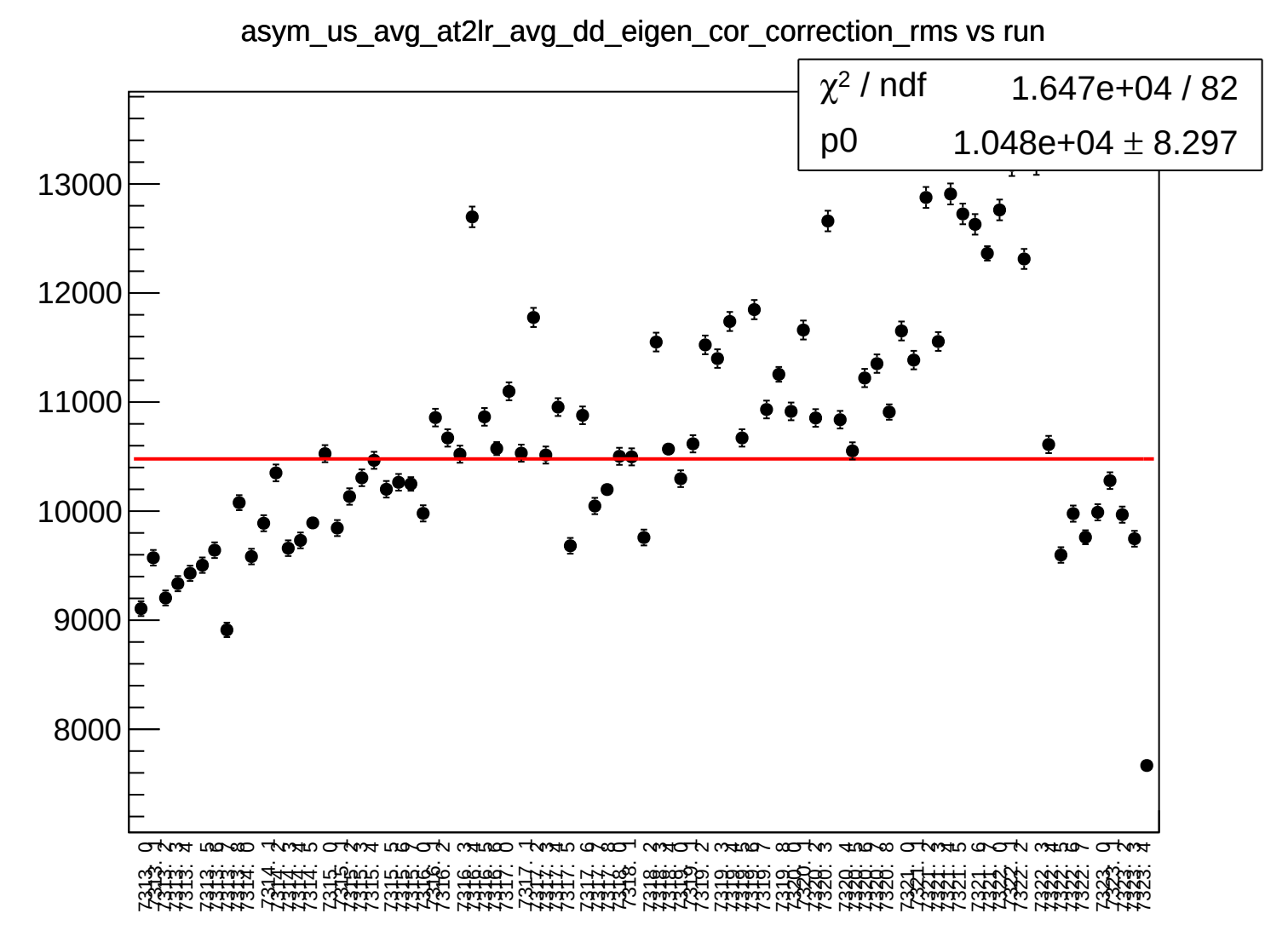

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 100.2 / 82
p0 −287.6 ± 1593
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 217
Std Dev 0
2
1
0
−1
−2
−3

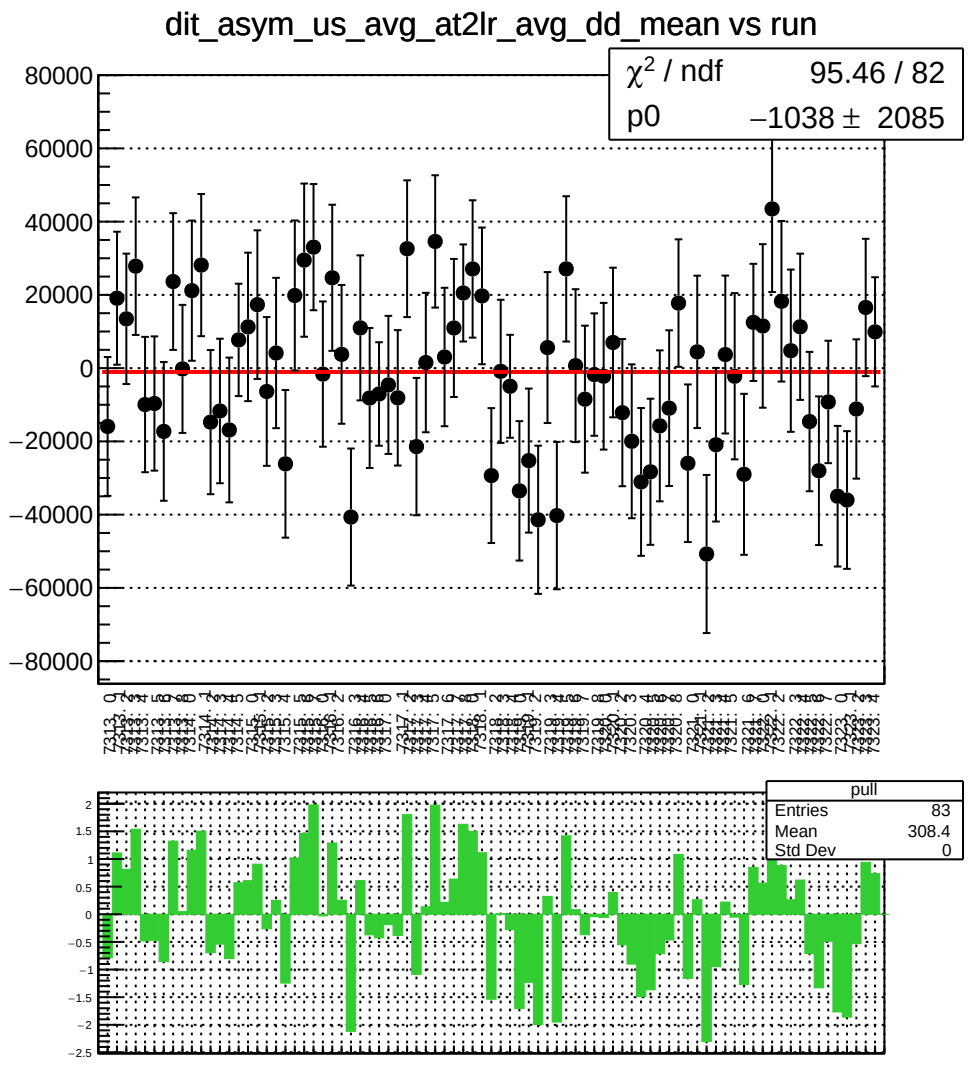

pull1D
Entries 83
Mean −0.01873
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

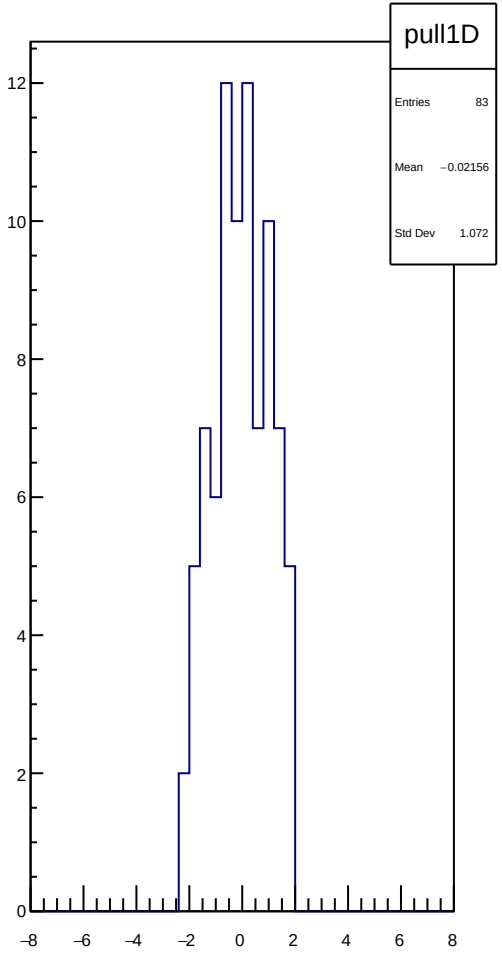

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 602.5 / 82
p0 1430 ± 1.127
1500
1480
1460
1440
1420
1400
1380

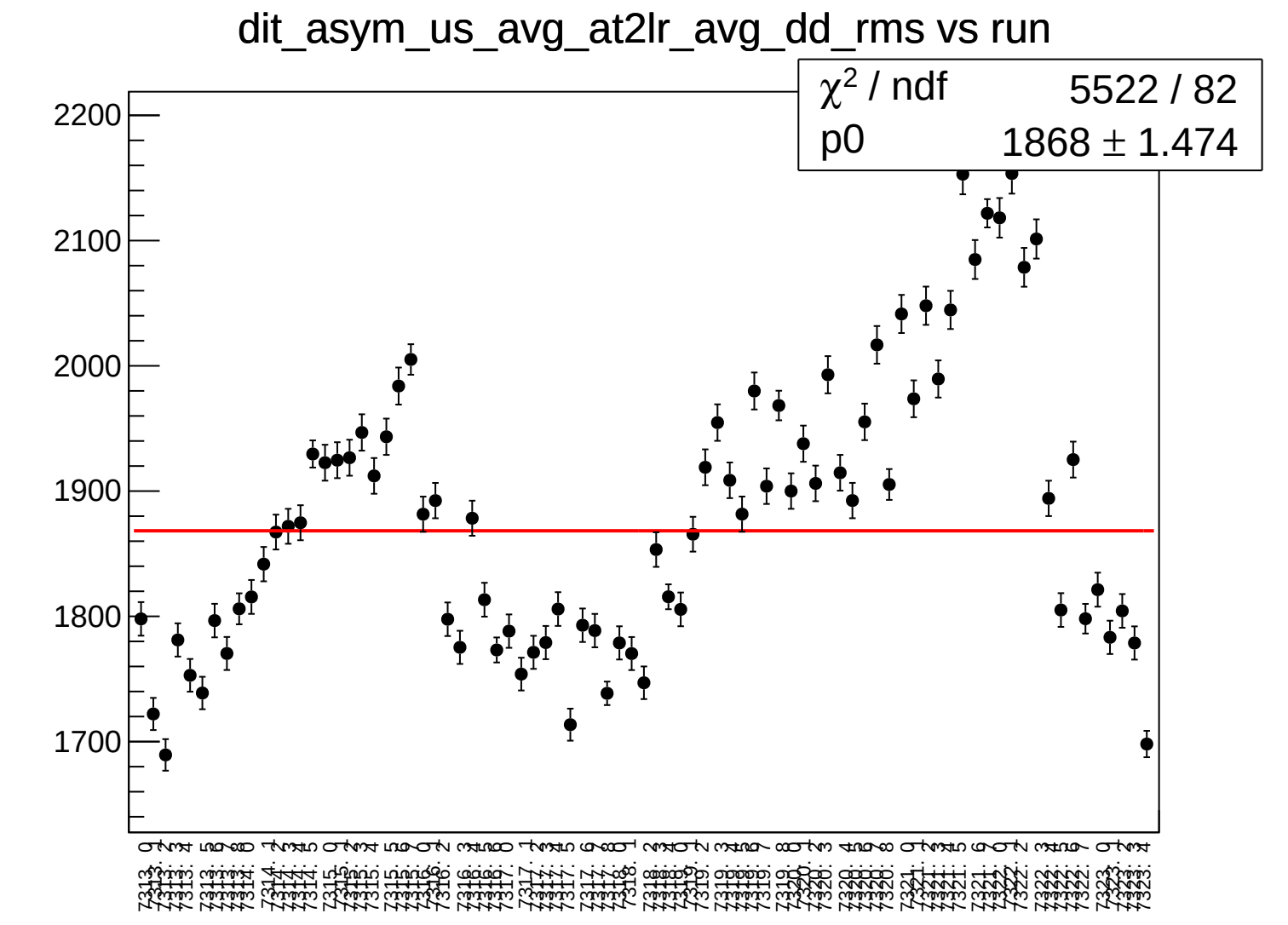

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.24 / 82
p0 −1.375e+04 ± 1.173e+04
pull
Entries 83
Mean 1275
Std Dev 0

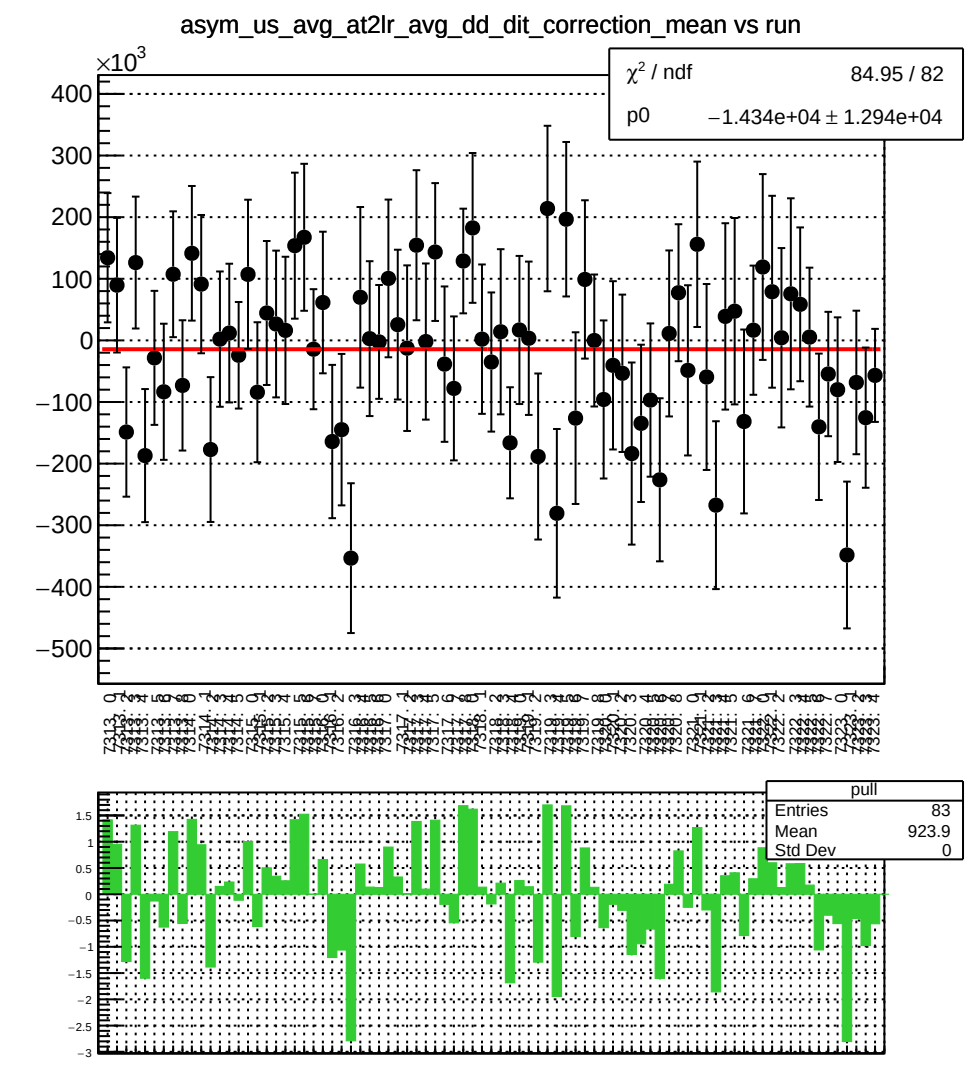

pull1D
Entries 83
Mean −0.003874
Std Dev 1.007

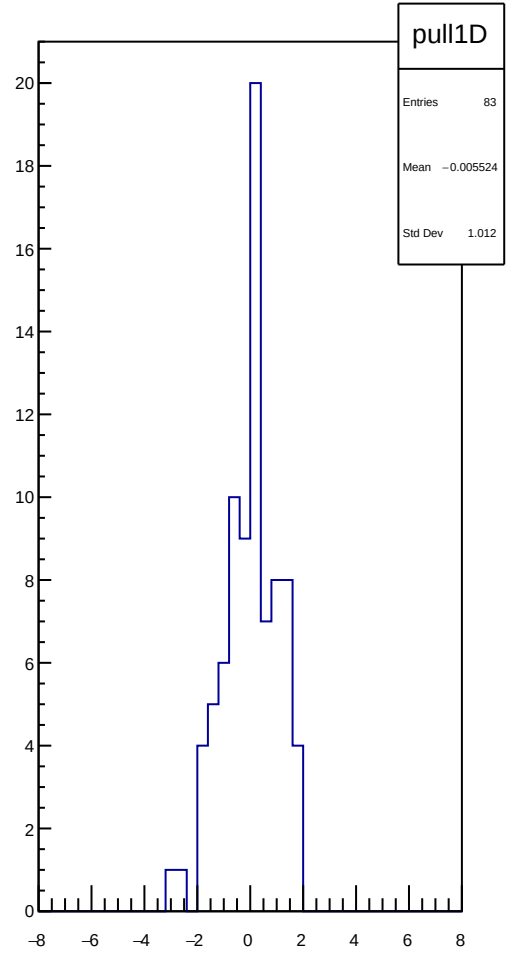

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.647e+04 / 82
p0 1.048e+04 ± 8.297
13000
12000
11000
10000
9000
8000

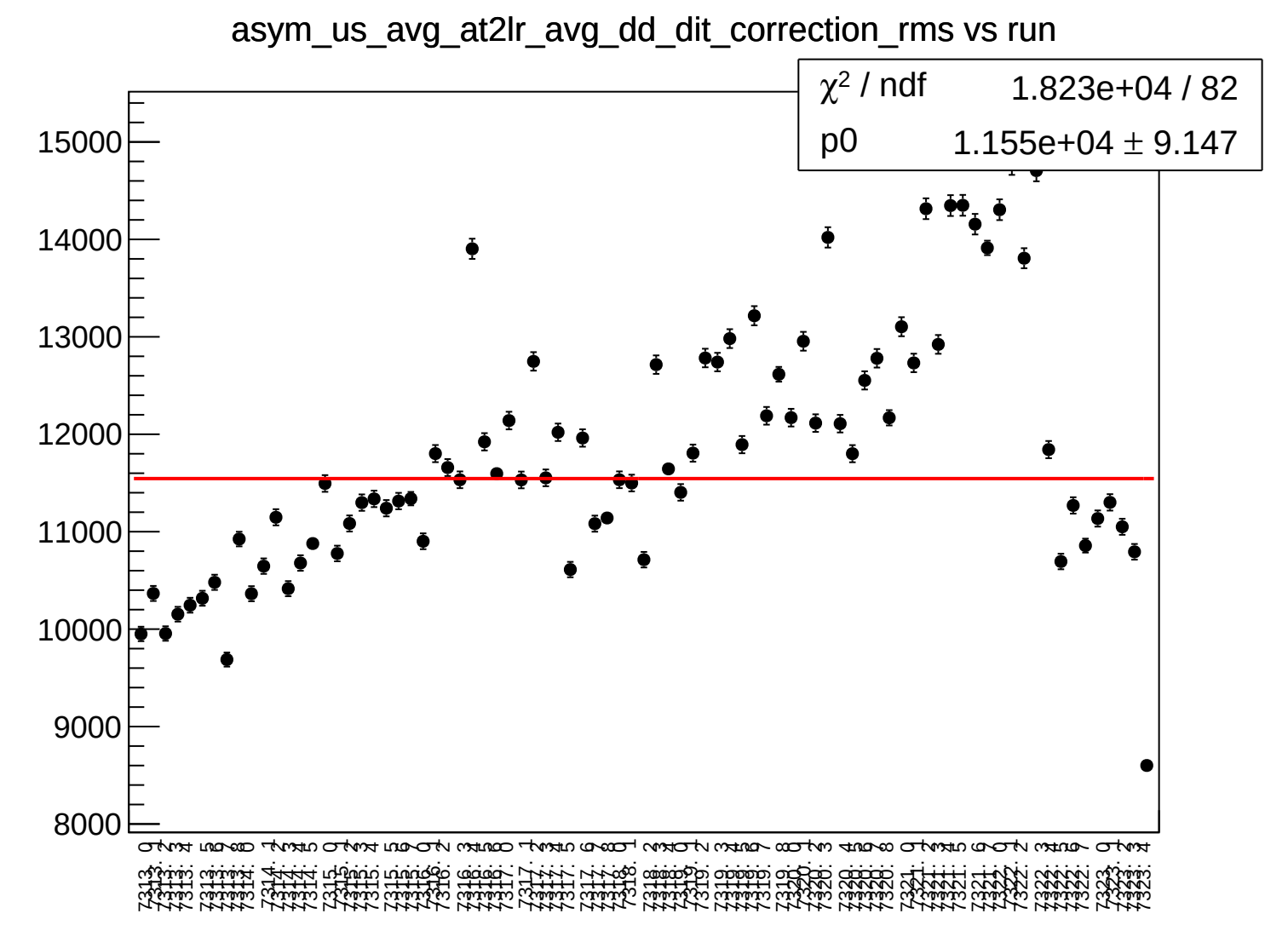

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.46 / 82
p0 −1038 ± 2085
pull
Entries 83
Mean 308.4
Std Dev 0

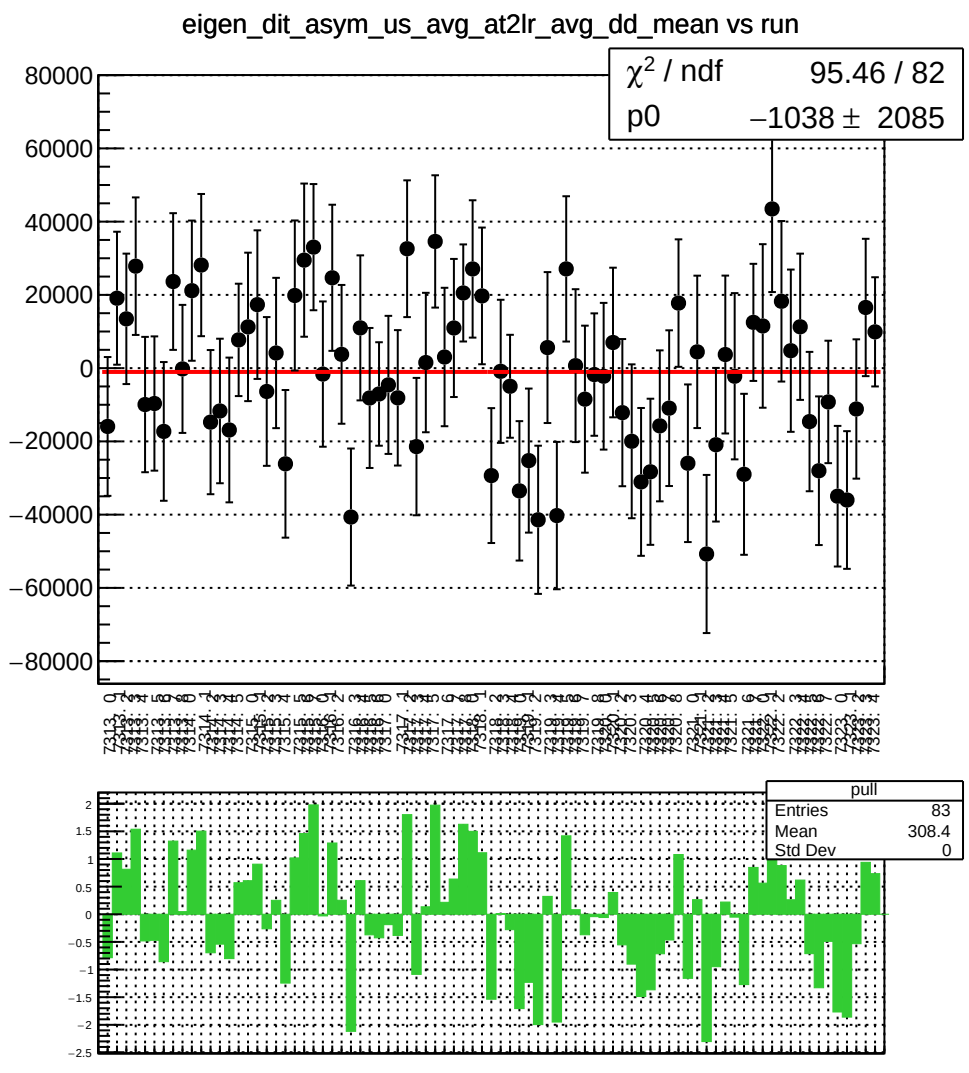

pull1D
Entries 83
Mean −0.02156
Std Dev 1.072

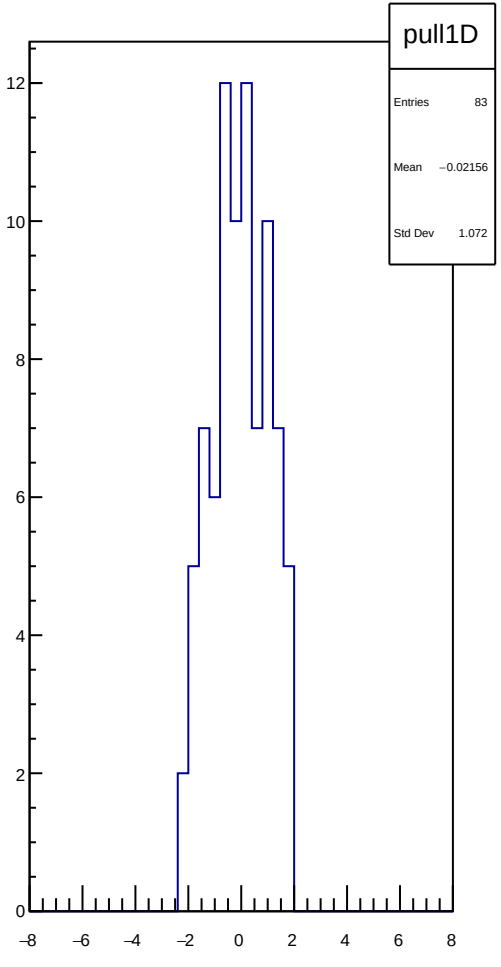

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5522 / 82
p0 1868 ± 1.474
2200
2100
2000
1900
1800
1700

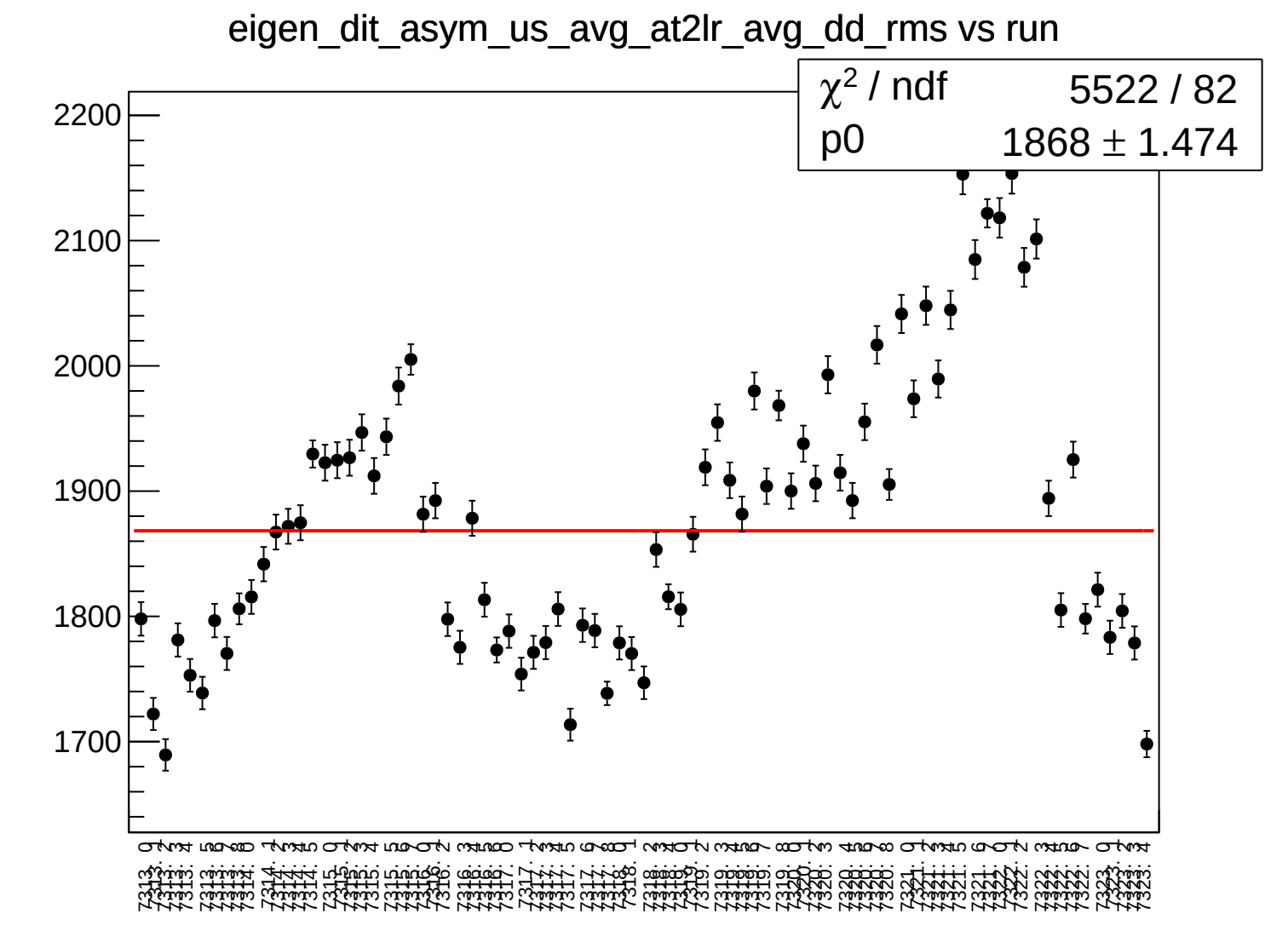

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.95 / 82
p0 −1.434e+04 ± 1.294e+04
pull
Entries 83
Mean 923.9
Std Dev 0

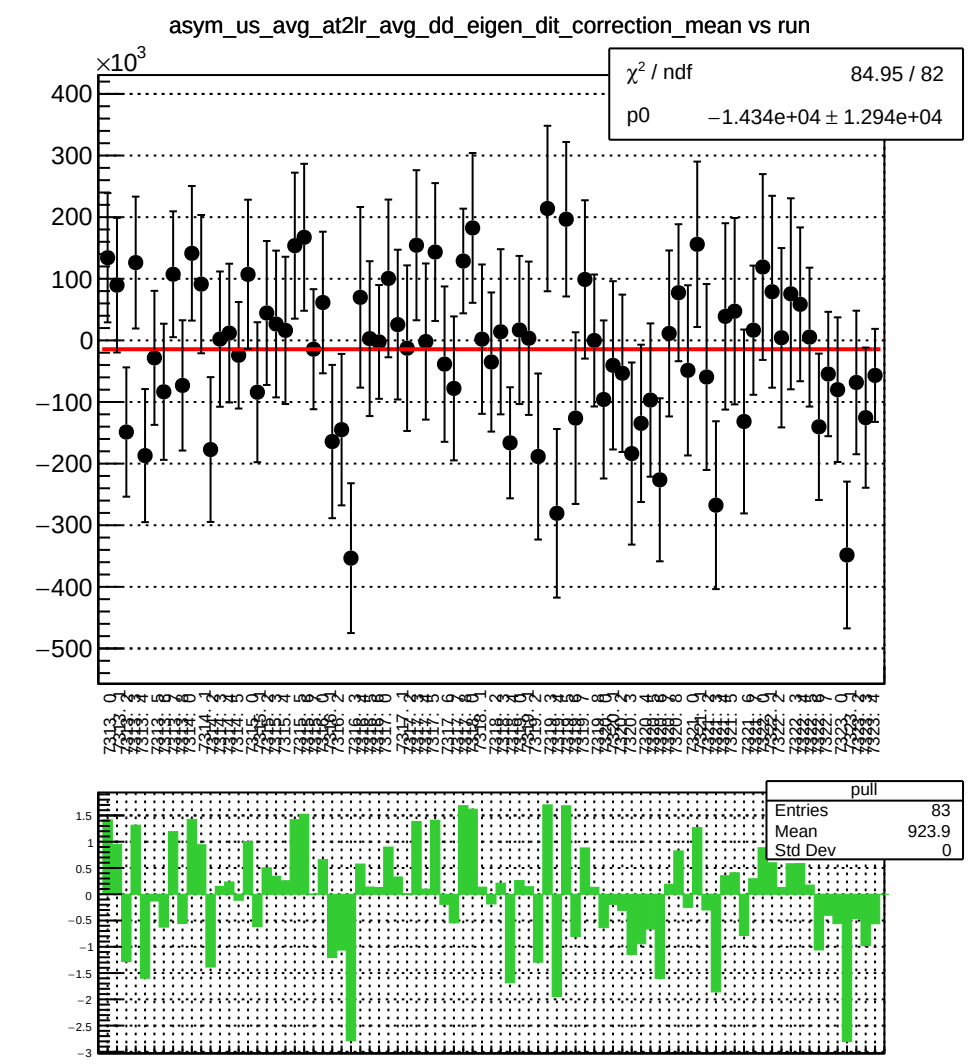

pull1D
Entries 83
Mean −0.005524
Std Dev 1.012

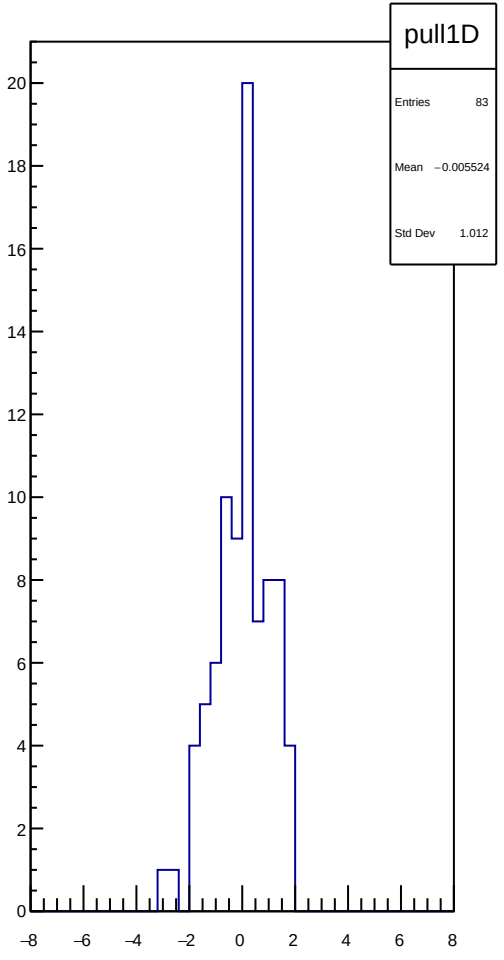

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.823e+04 / 82
p0 1.155e+04 ± 9.147
15000
14000
13000
12000
11000
10000
9000
8000

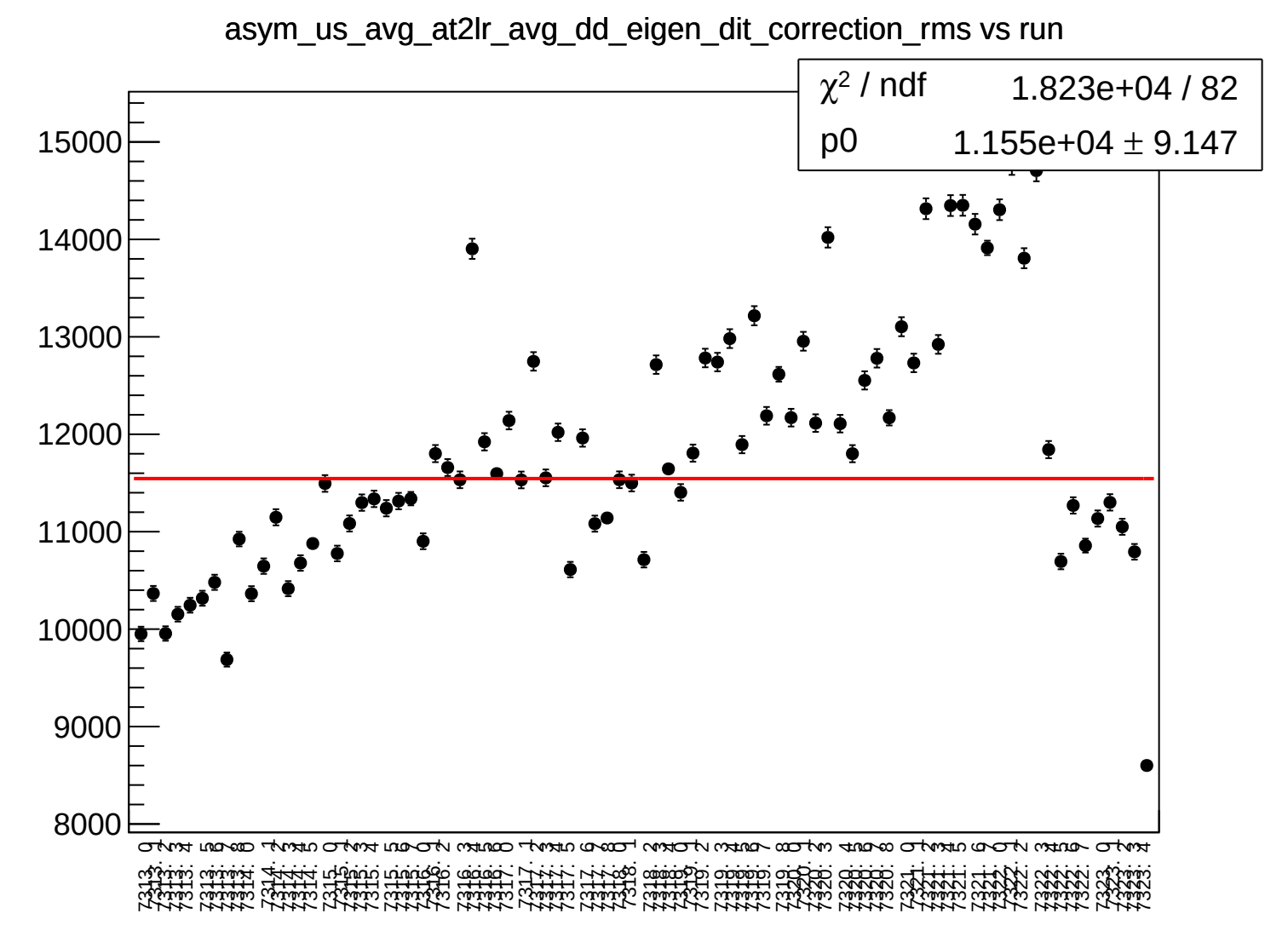

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.46 / 82
p0 −1038 ± 2085
pull
Entries 83
Mean 308.4
Std Dev 0

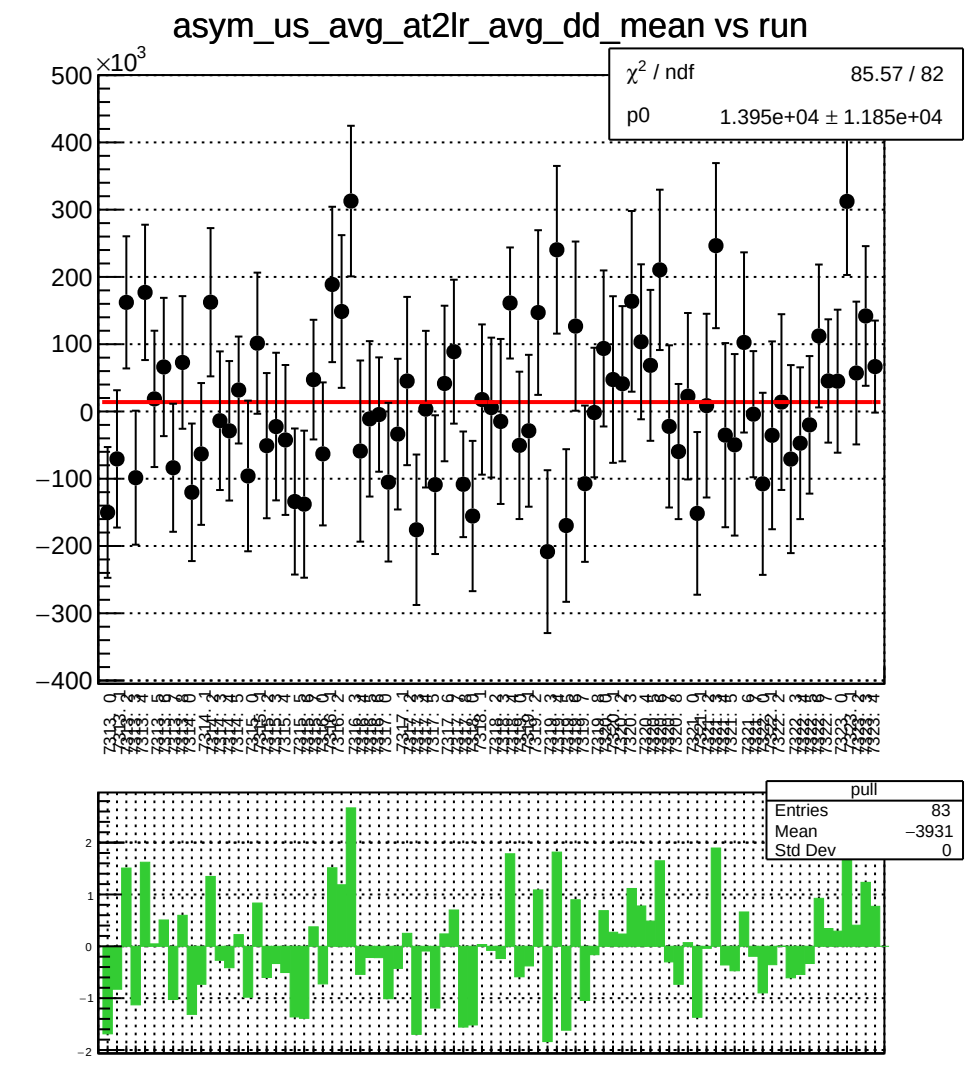

pull1D
Entries 83
Mean −0.02156
Std Dev 1.072

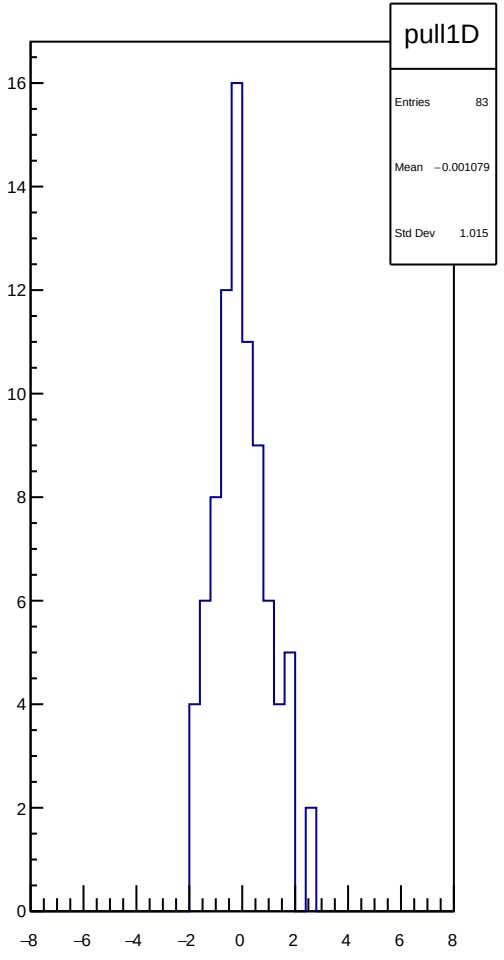

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5522 / 82
p0 1868 ± 1.474
2200
2100
2000
1900
1800
1700

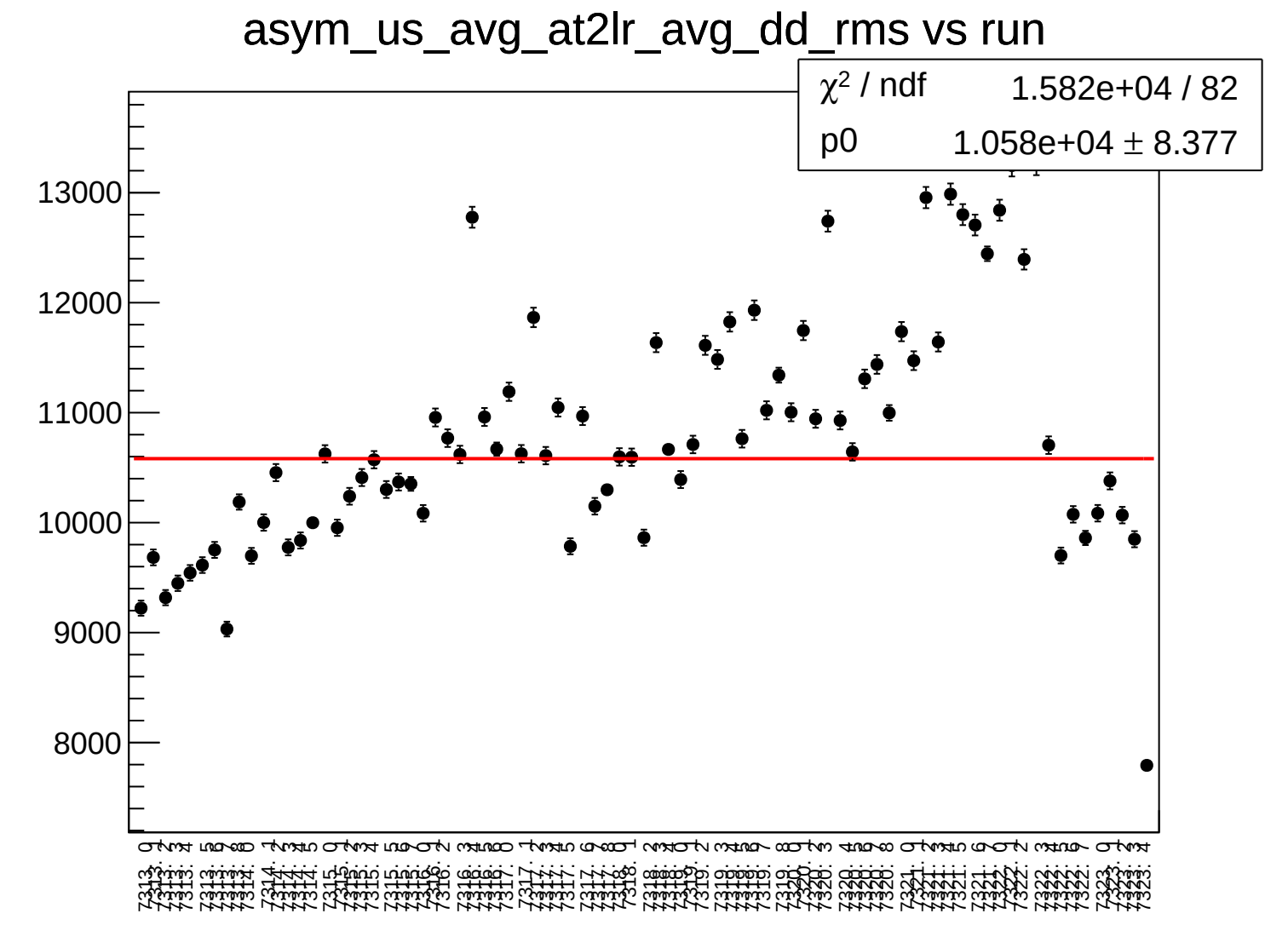

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.95 / 82
p0 −1.434e+04 ± 1.294e+04
pull
Entries 83
Mean 923.9
Std Dev 0

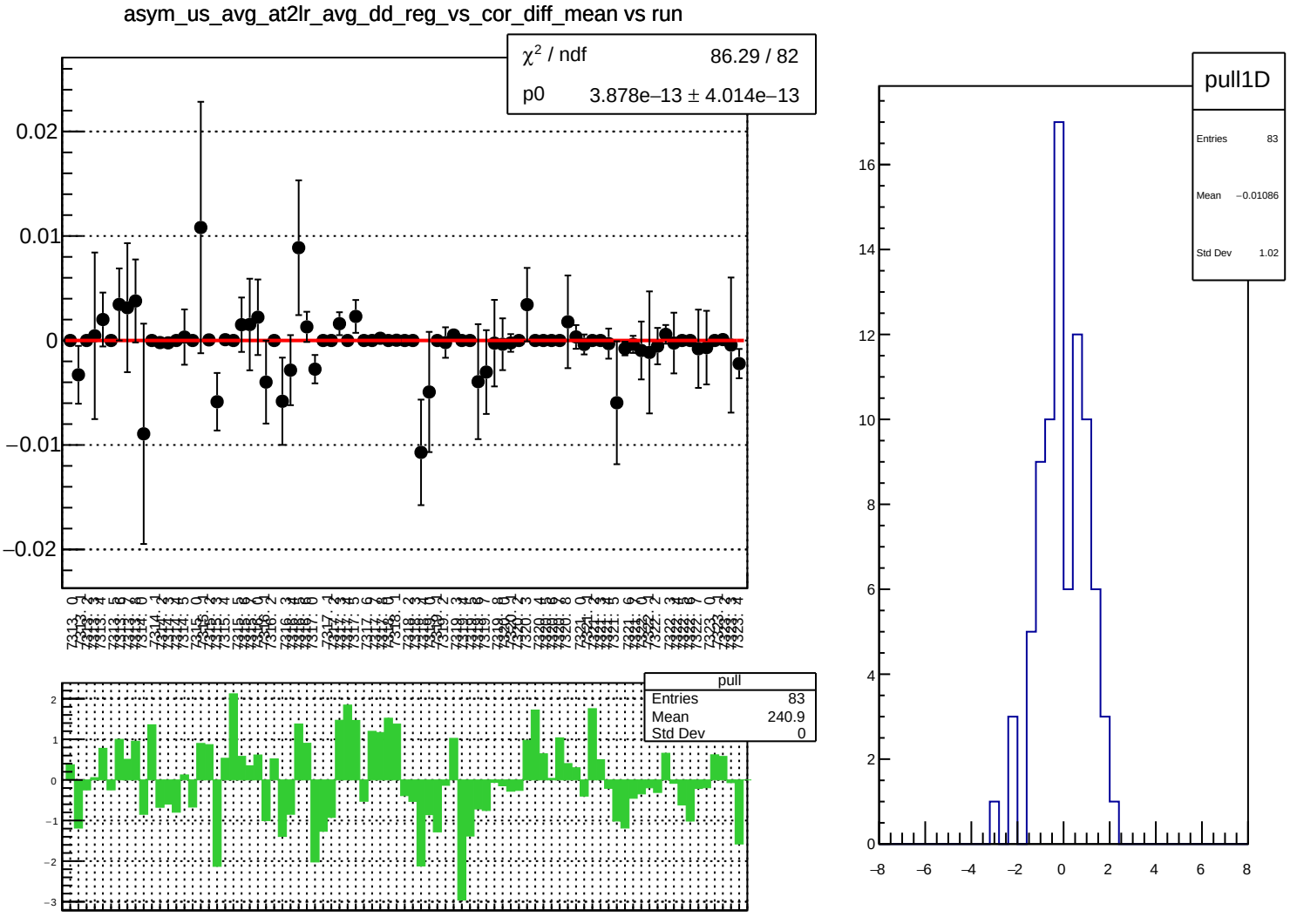

pull1D
Entries 83
Mean −0.005524
Std Dev 1.012

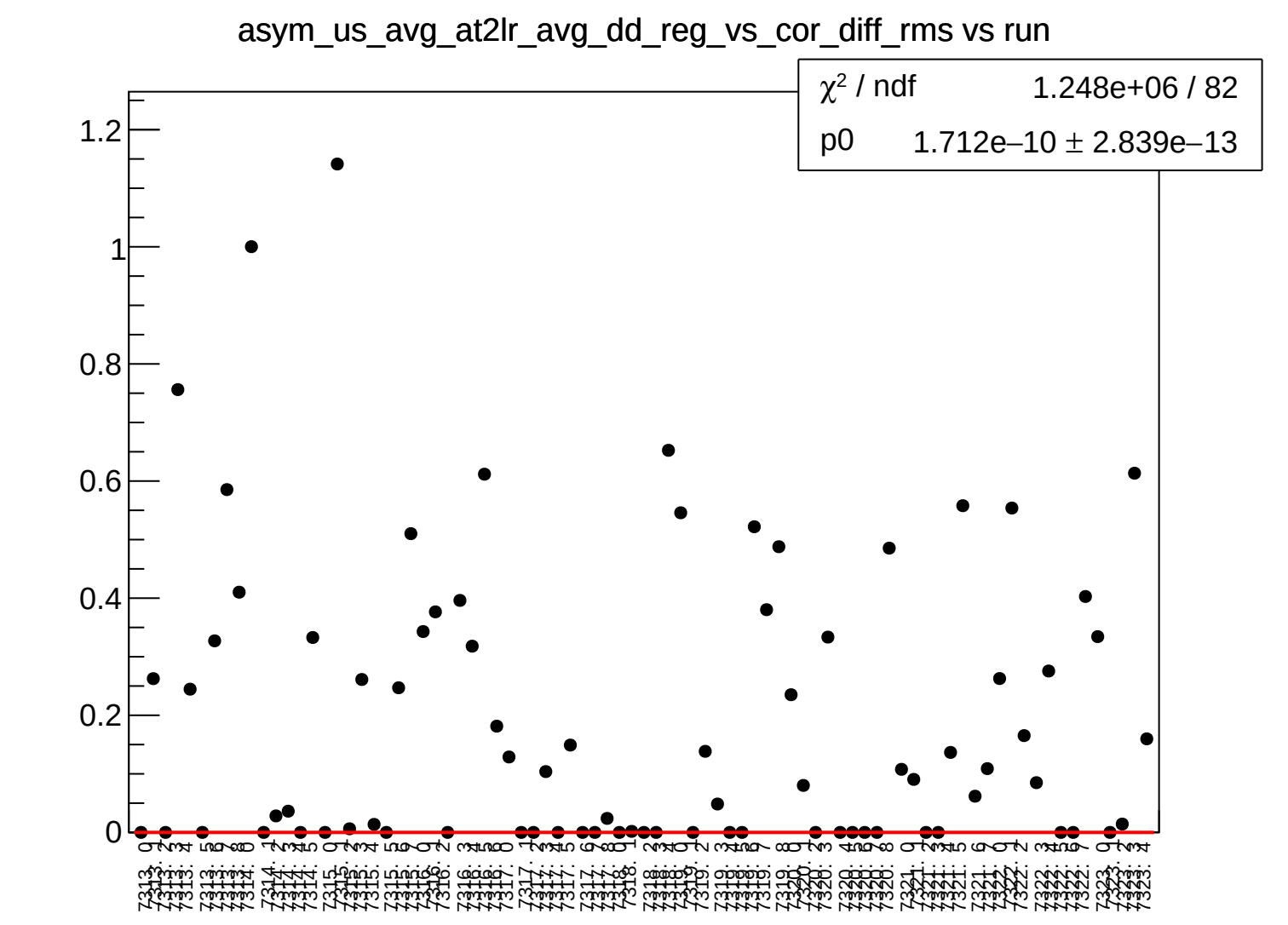

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.823e+04 / 82
p0 1.155e+04 ± 9.147
15000
14000
13000
12000
11000
10000
9000
8000

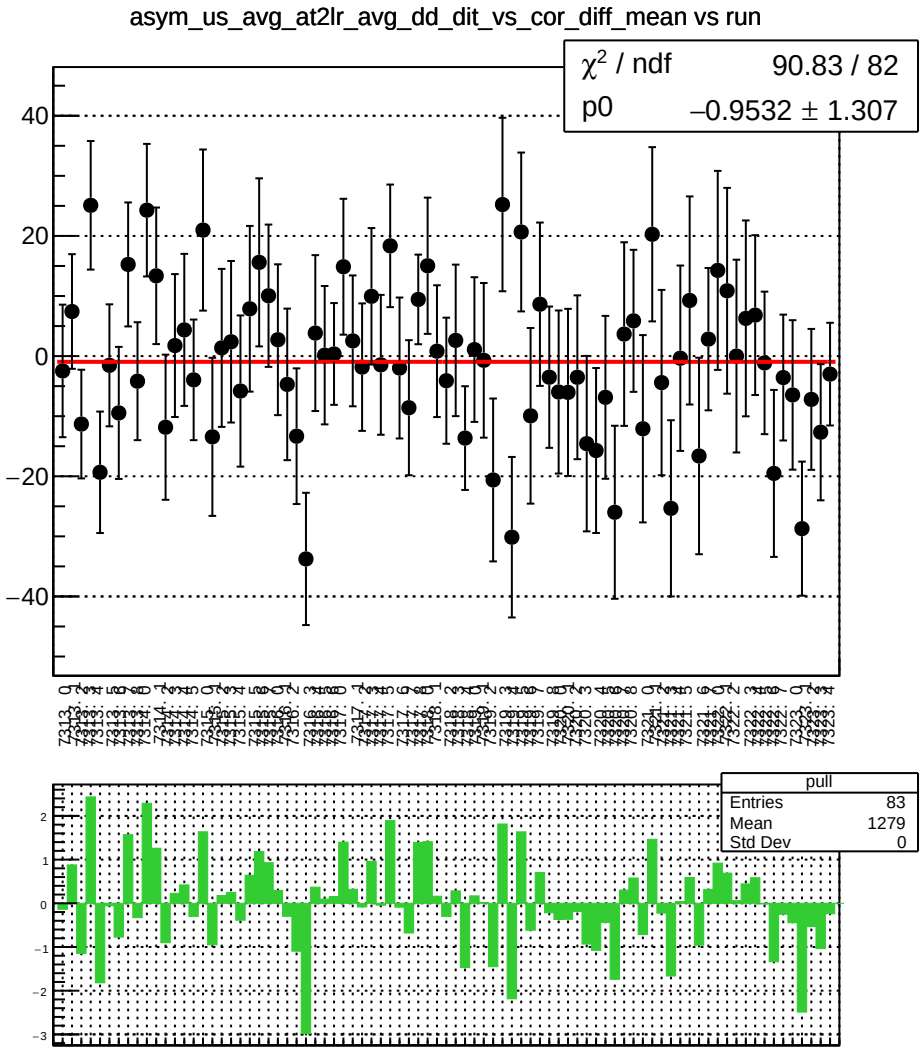

asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 85.57 / 82
p0 1.395e+04 ± 1.185e+04
×10³
pull
Entries 83
Mean −3931
Std Dev 0

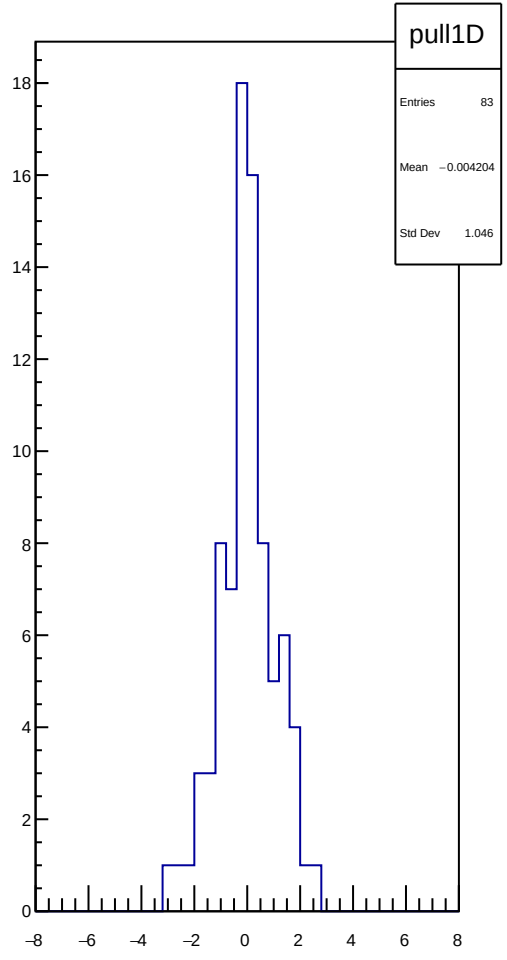

pull1D
Entries 83
Mean −0.001079
Std Dev 1.015

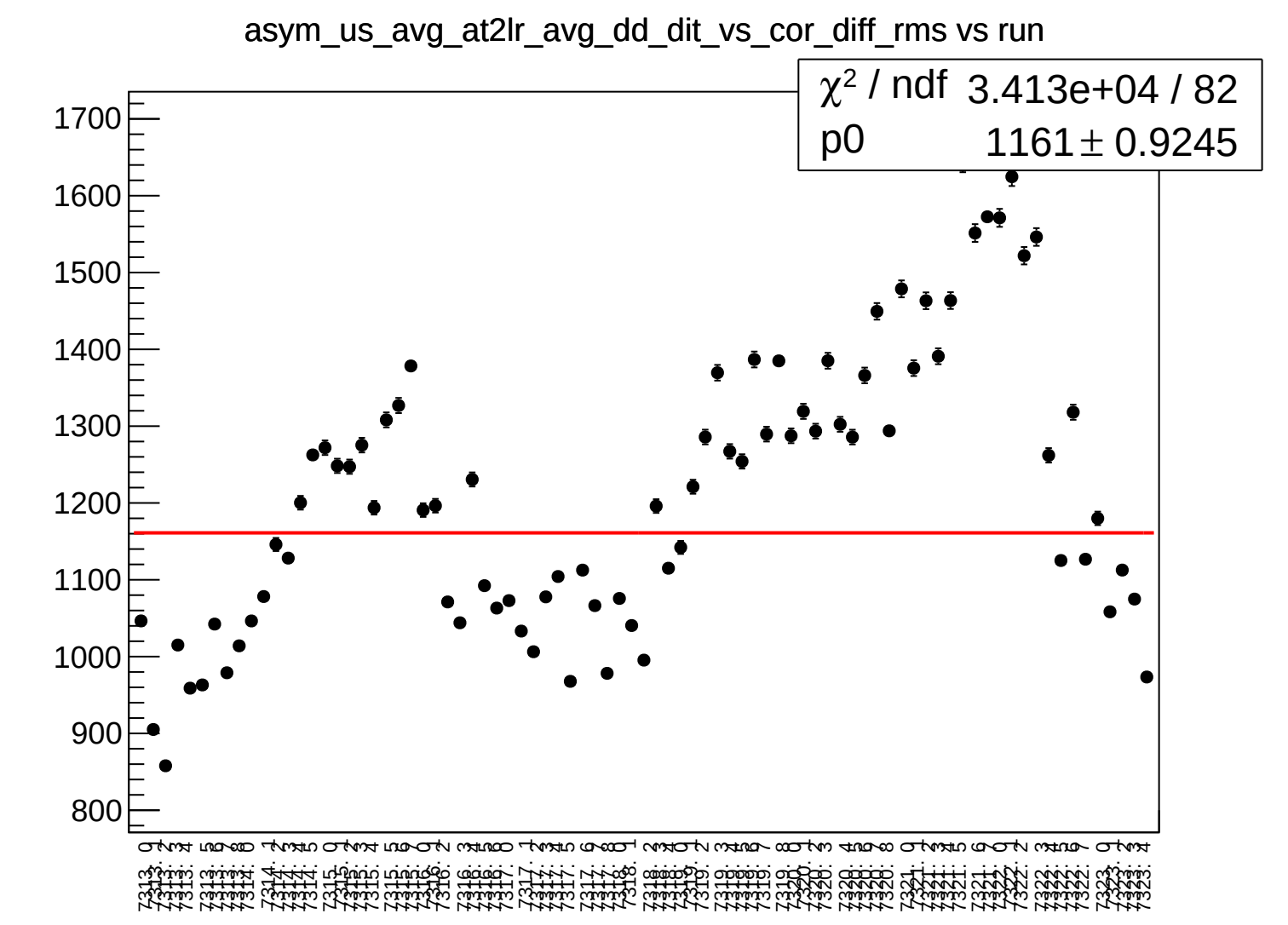

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.582e+04 / 82
p0 1.058e+04 ± 8.377
13000
12000
11000
10000
9000
8000

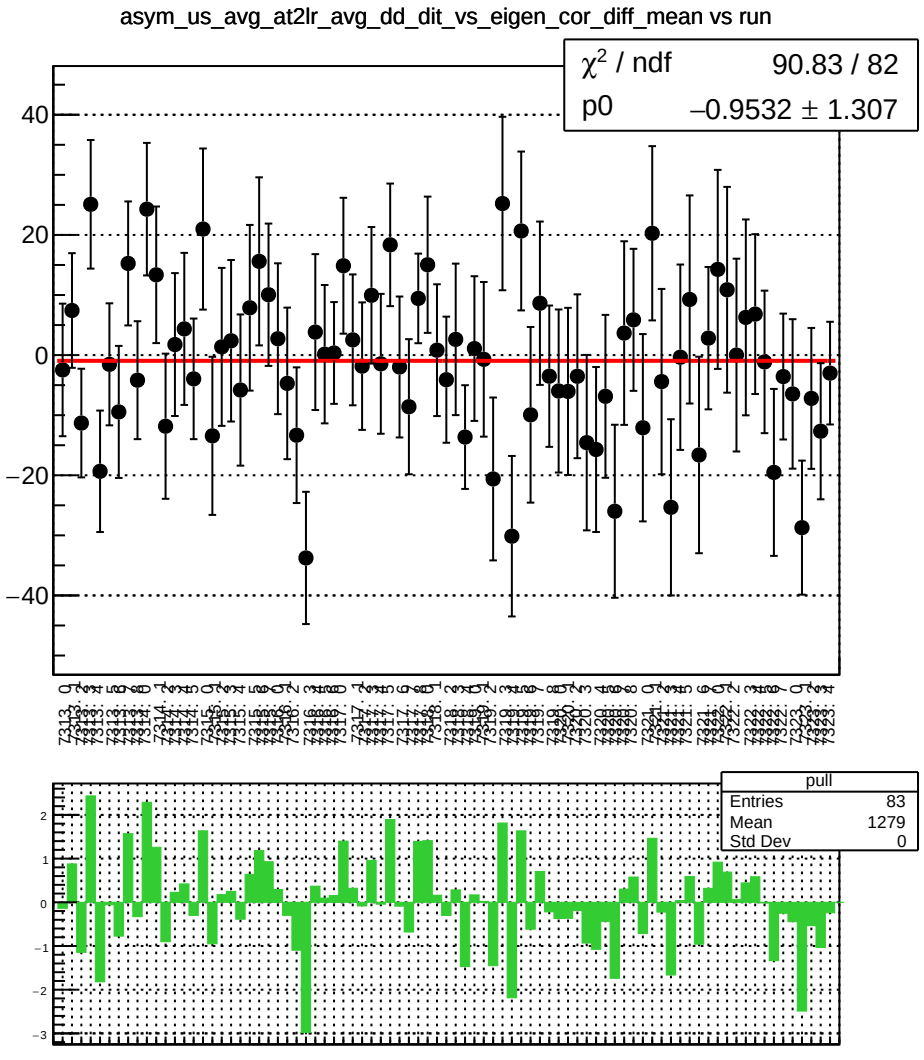

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.29 / 82
p0 3.878e−13 ± 4.014e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean 240.9
Std Dev 0
pull1D
Entries 83
Mean −0.01086
Std Dev 1.02

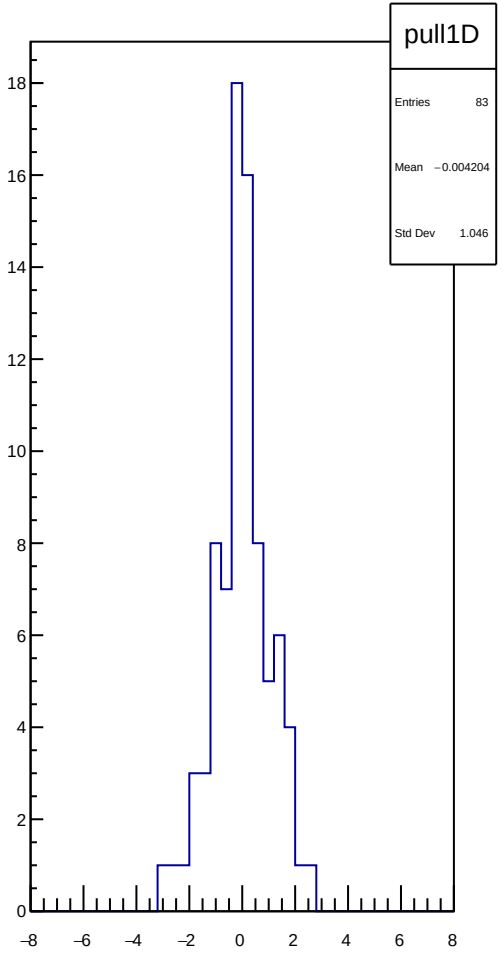

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.248e+06 / 82
p0 1.712e−10 ± 2.839e−13
1.2
1
0.8
0.6
0.4
0.2
0

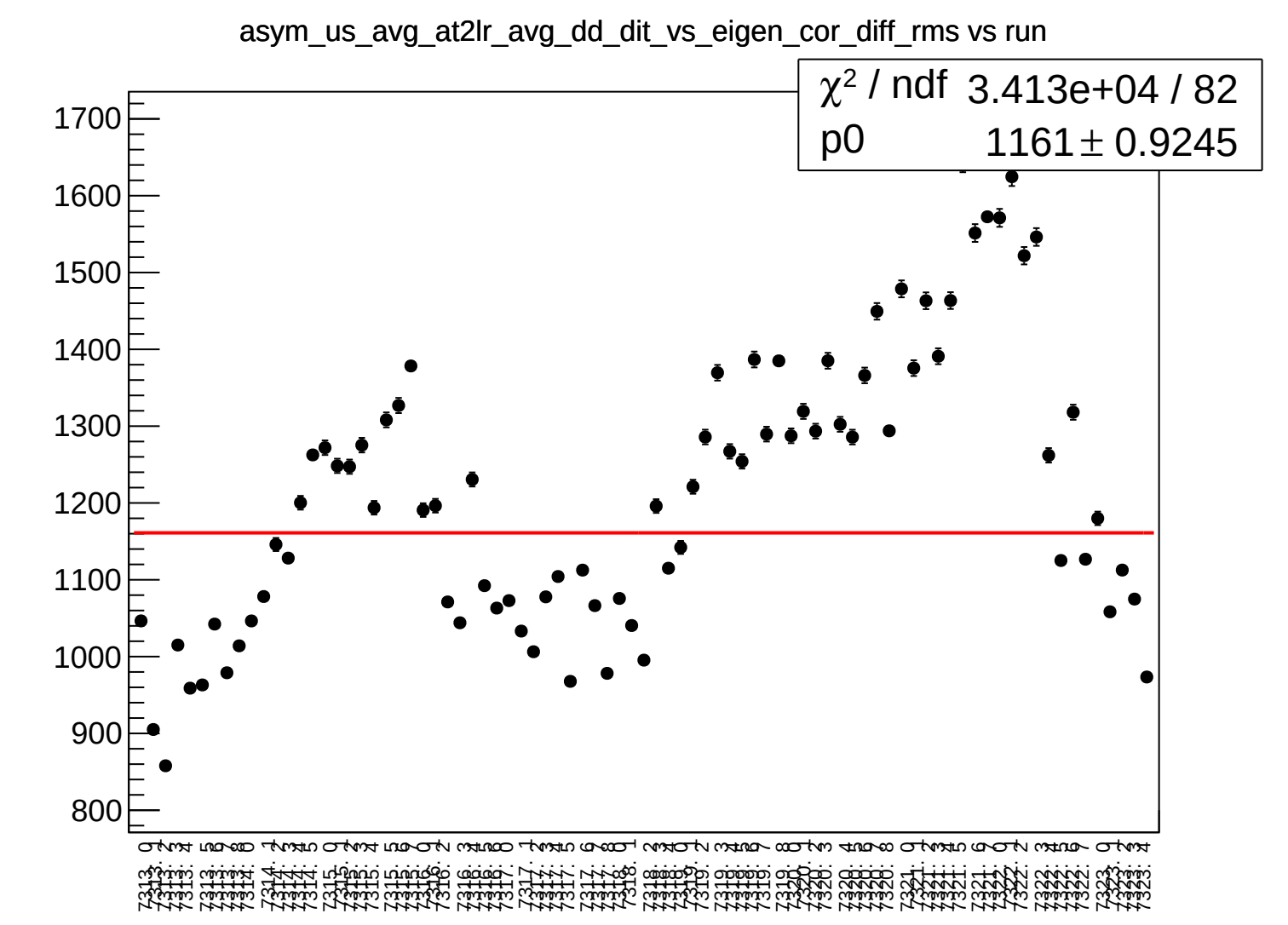

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.83 / 82
p0 −0.9532 ± 1.307
pull
Entries 83
Mean 1279
Std Dev 0

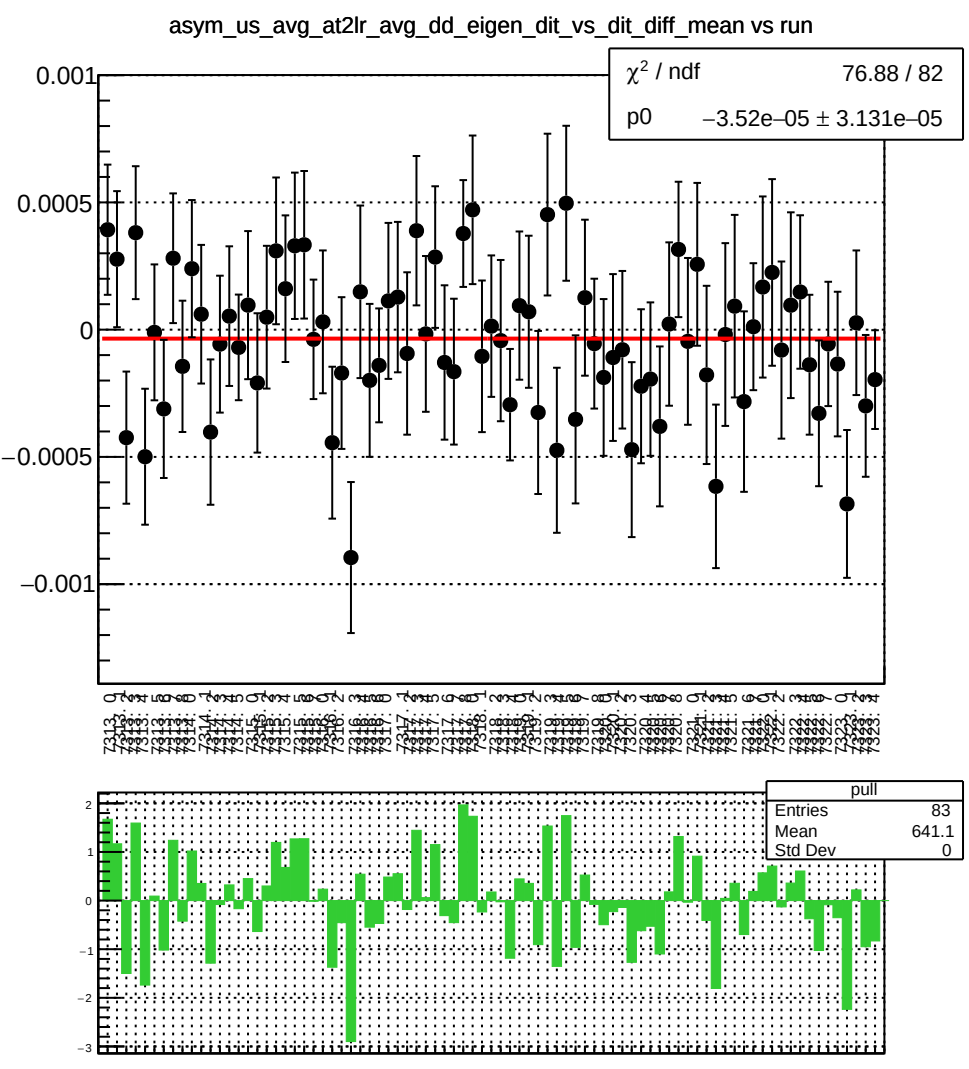

pull1D
Entries 83
Mean −0.004204
Std Dev 1.046

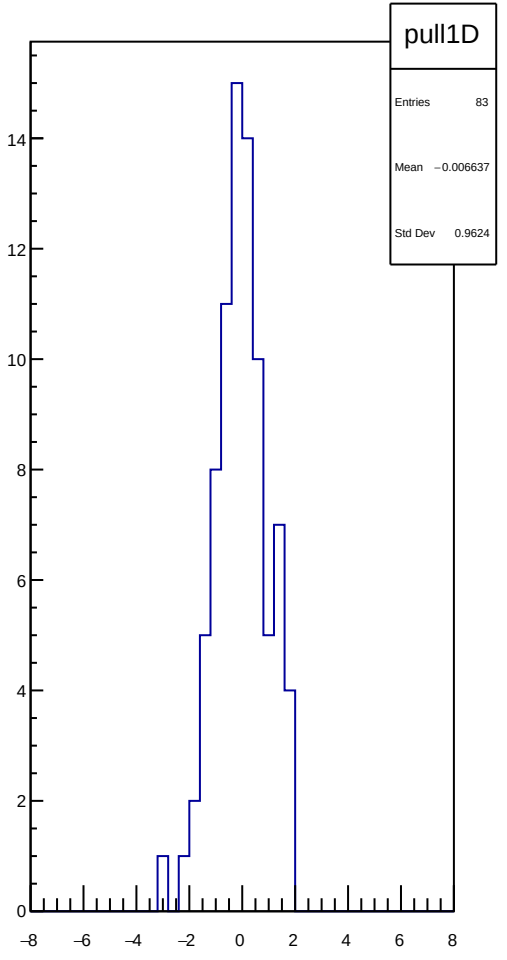

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.413e+04 / 82
p0 1161 ± 0.9245
1700
1600
1500
1400
1300
1200
1100
1000
900
800

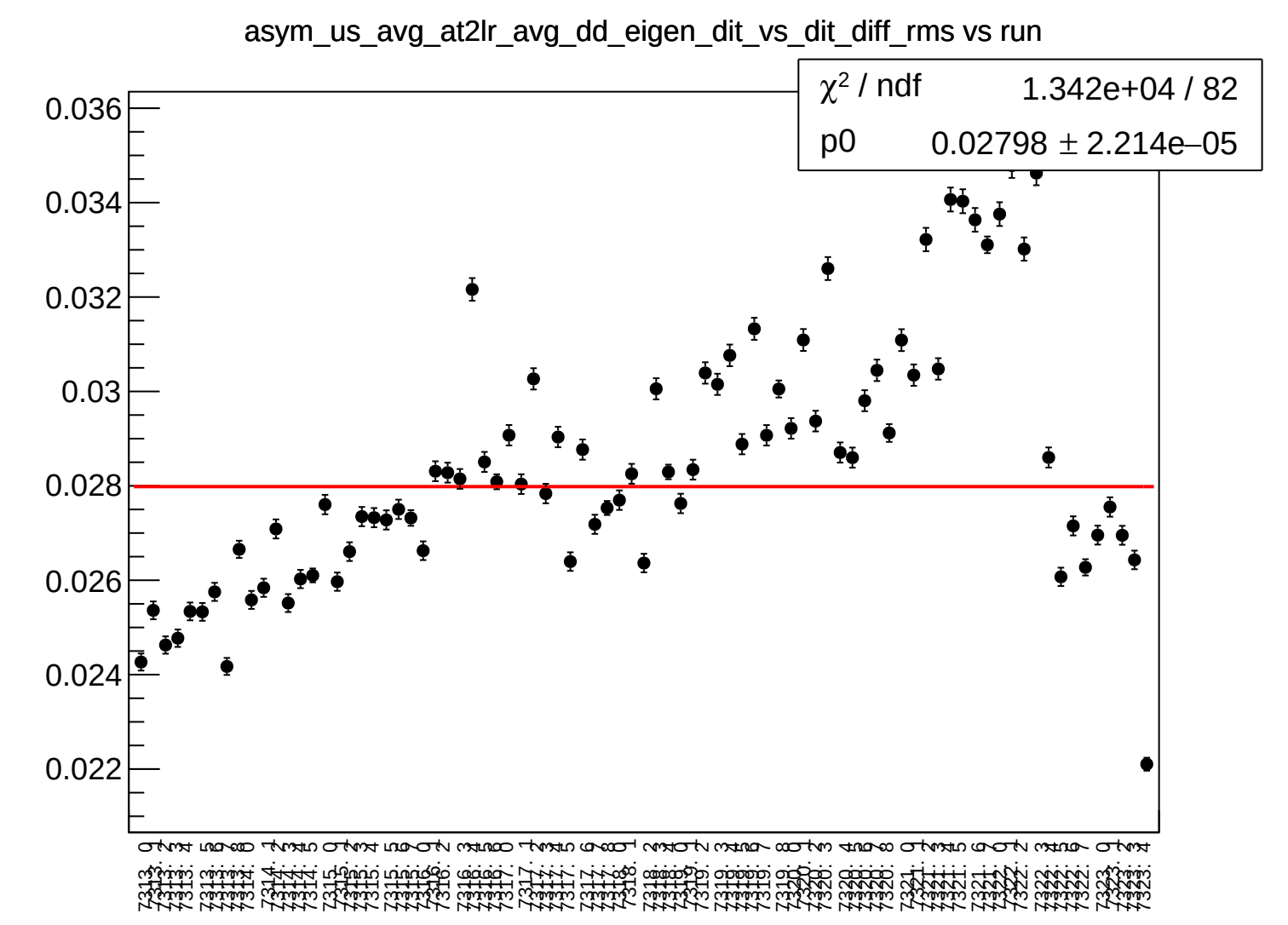

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.83 / 82
p0 −0.9532 ± 1.307
pull
Entries 83
Mean 1279
Std Dev 0

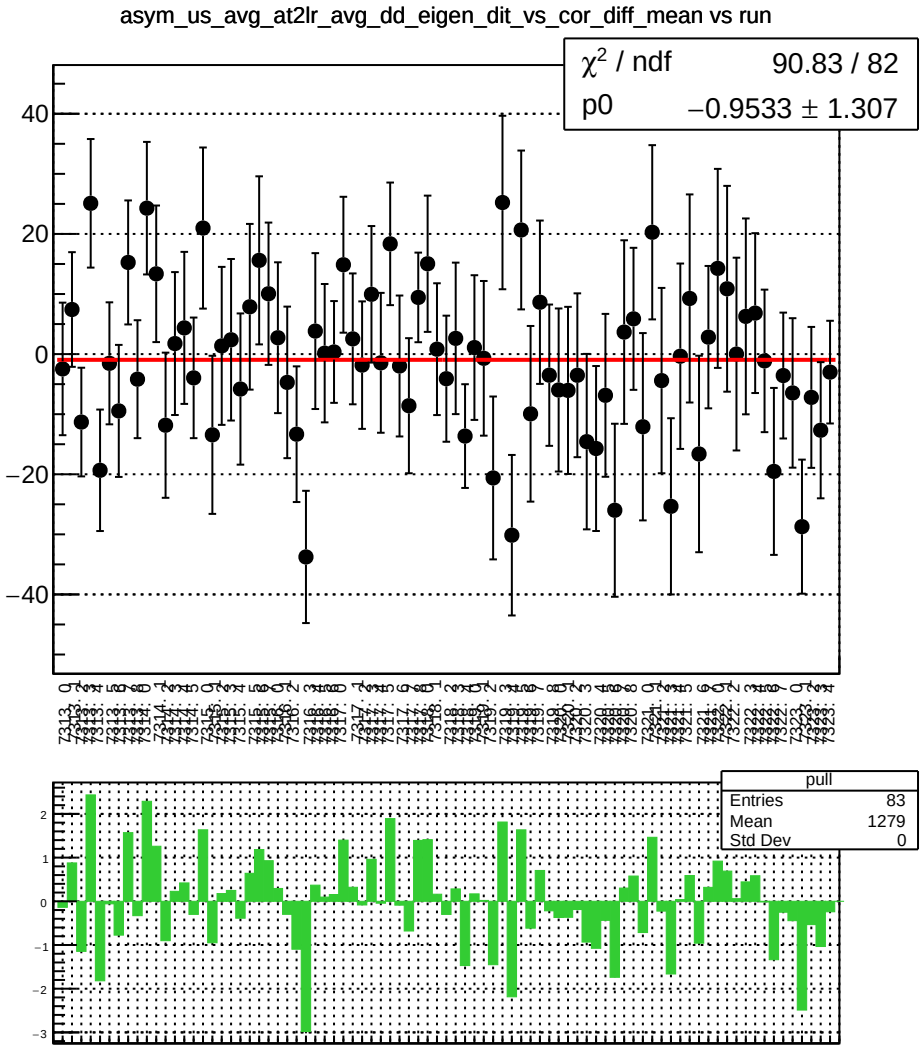

pull1D
Entries 83
Mean −0.004204
Std Dev 1.046

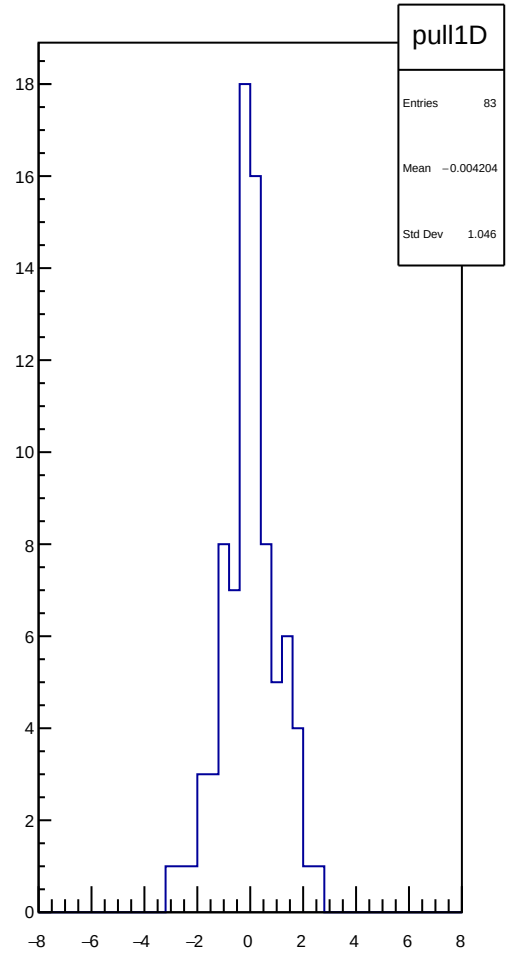

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.413e+04 / 82
p0 1161 ± 0.9245
1700
1600
1500
1400
1300
1200
1100
1000
900
800

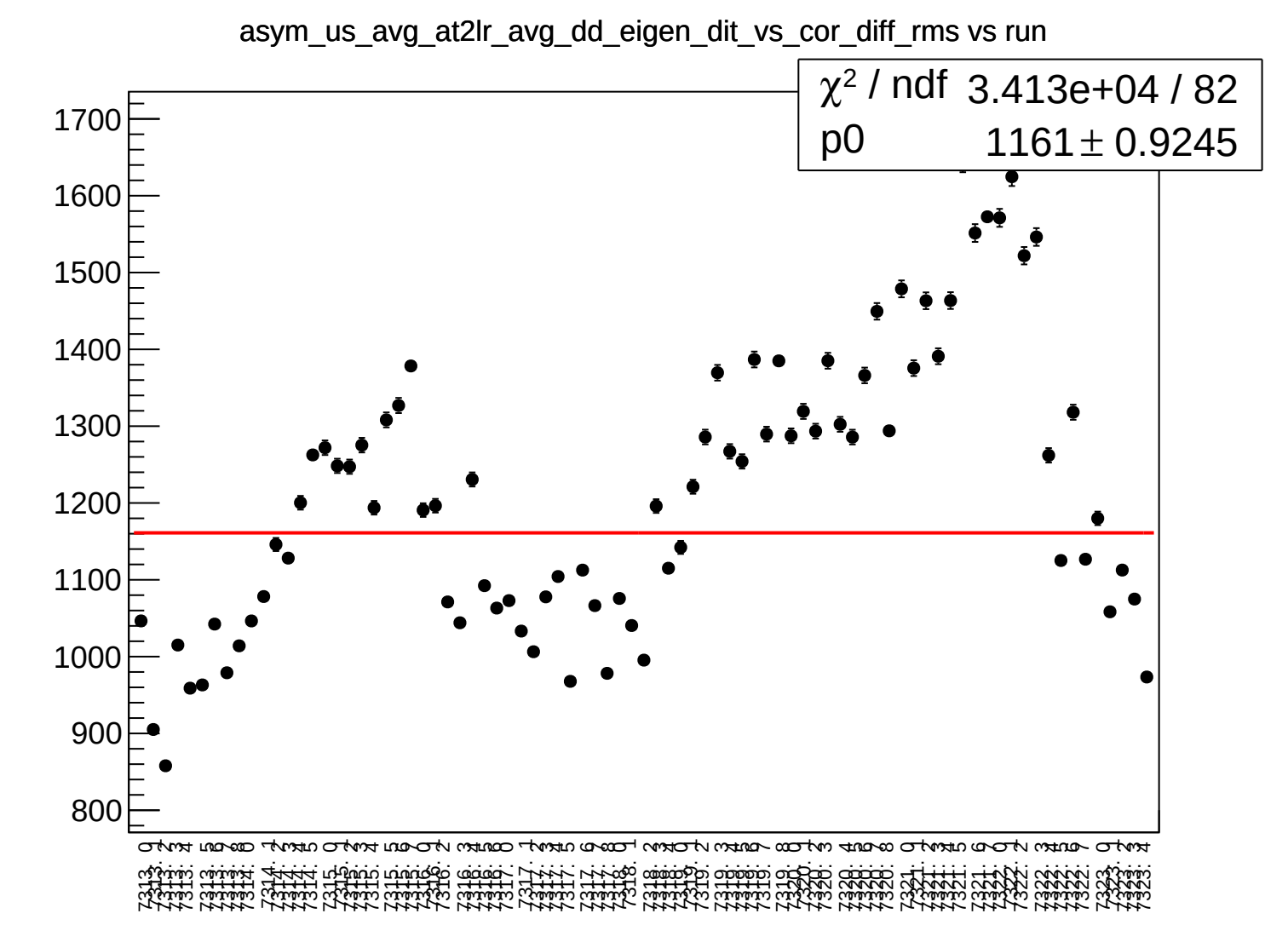

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.88 / 82
p0 −3.52e−05 ± 3.131e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 641.1
Std Dev 0

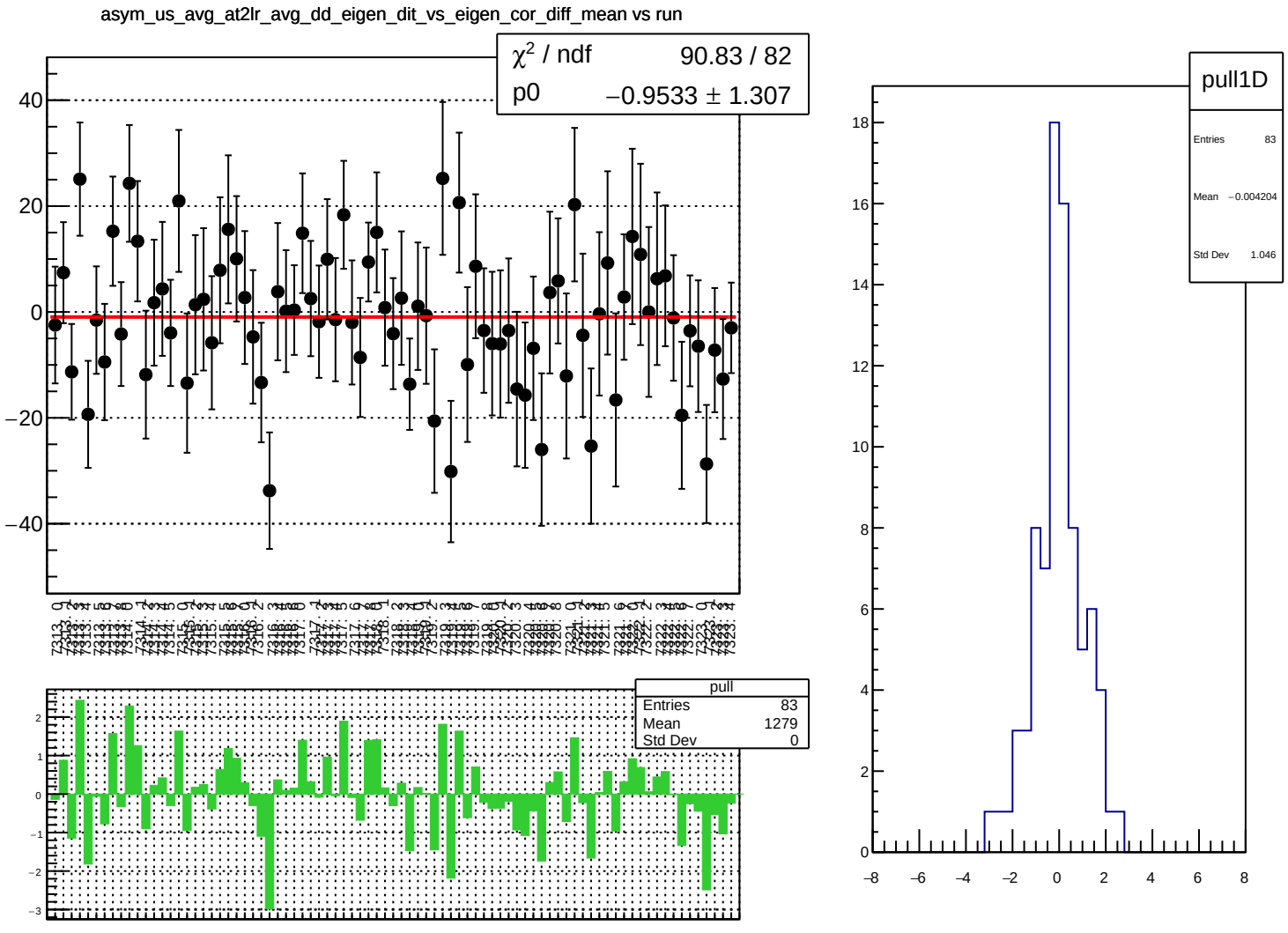

pull1D
Entries 83
Mean −0.006637
Std Dev 0.9624

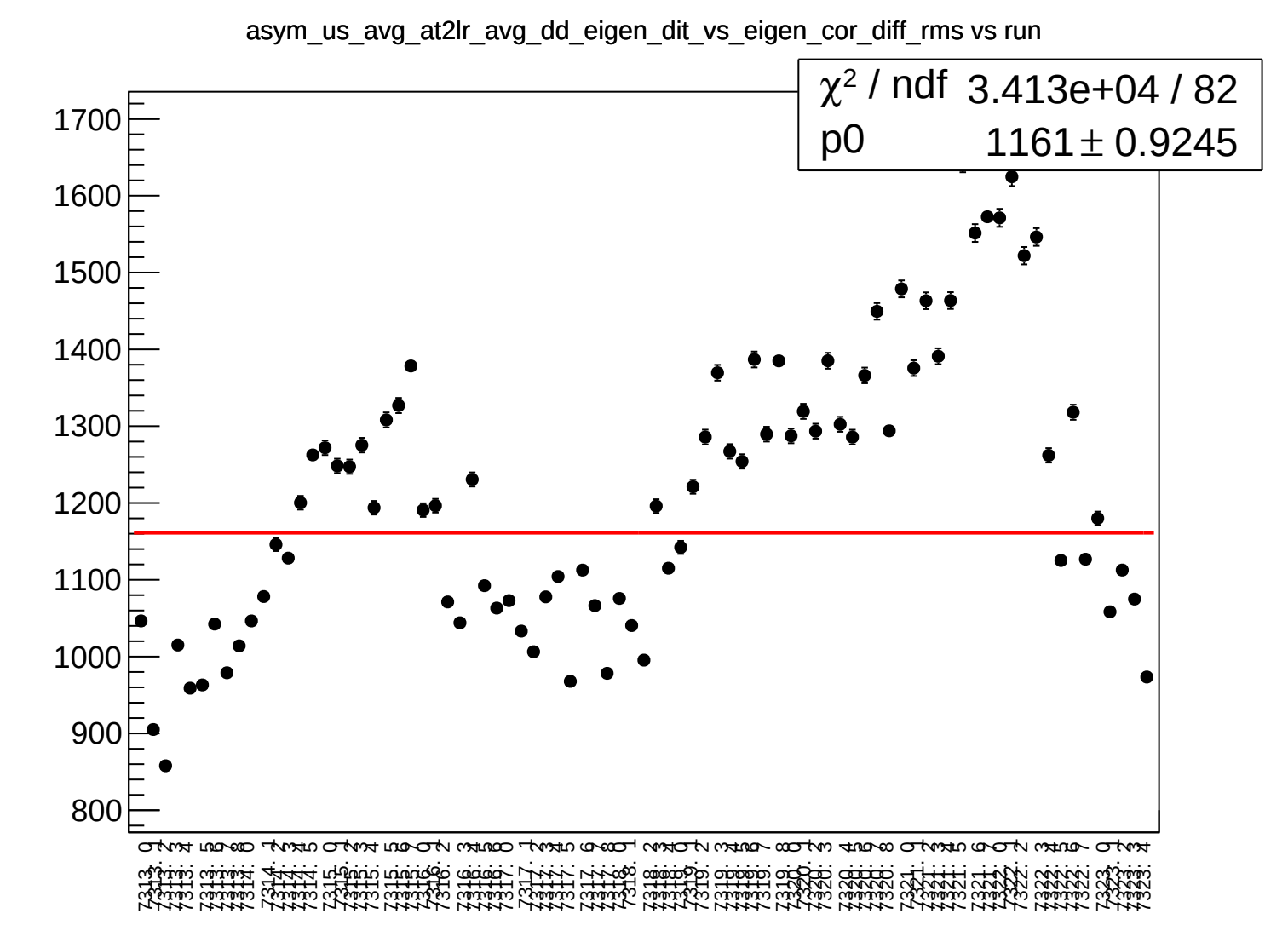

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.342e+04 / 82
p0 0.02798 ± 2.214e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

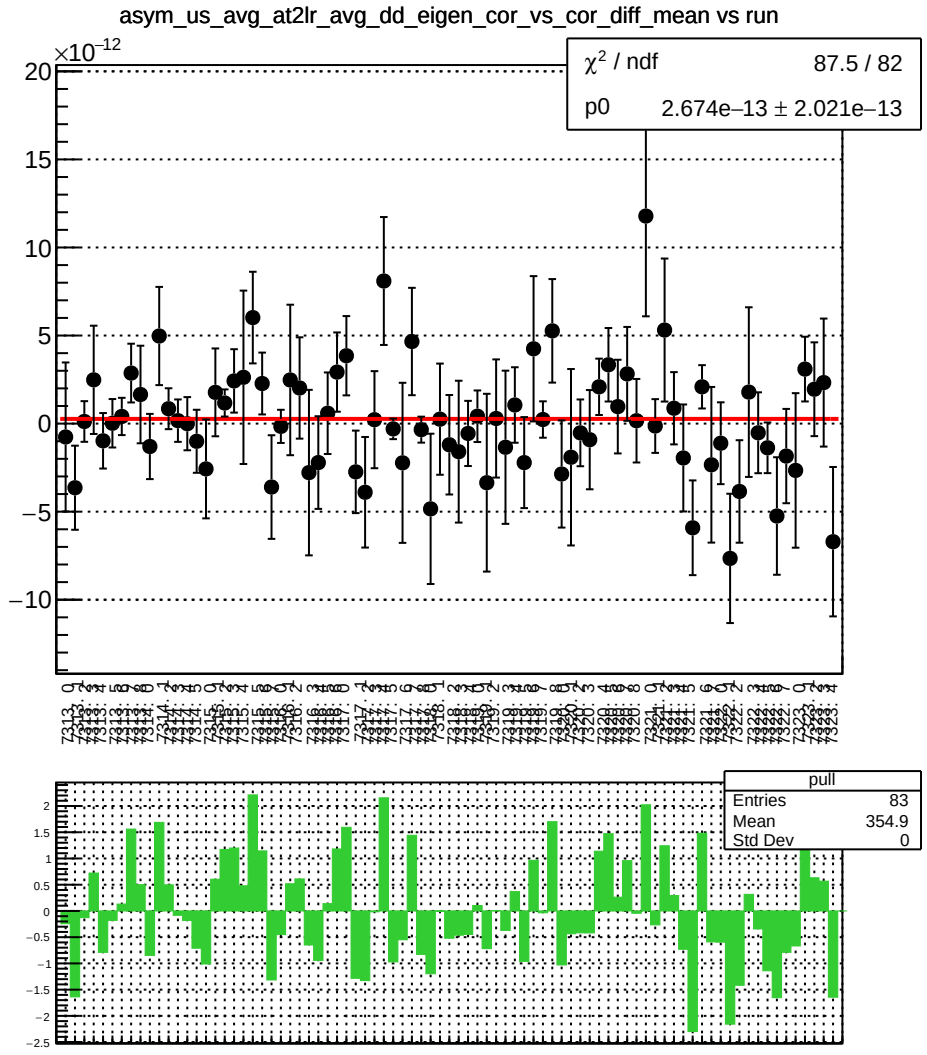

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.83 / 82
p0 −0.9533 ± 1.307
pull
Entries 83
Mean 1279
Std Dev 0

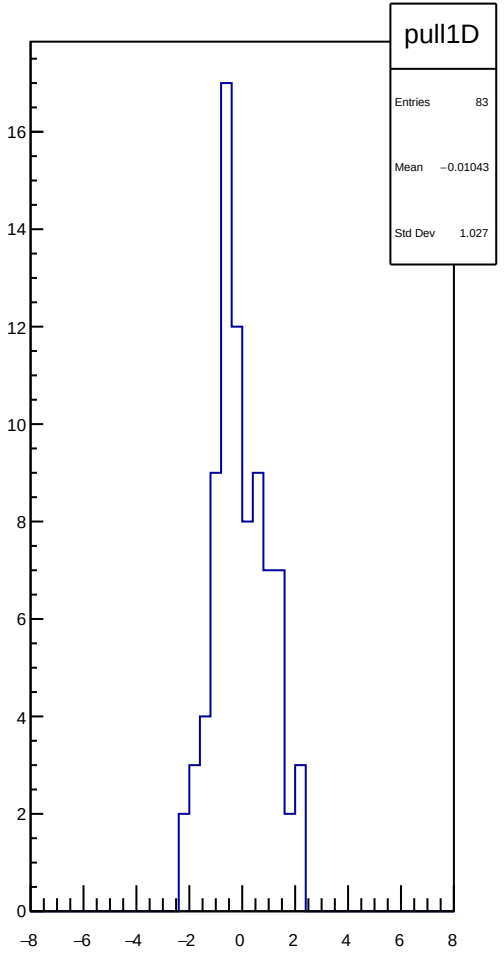

pull1D
Entries 83
Mean −0.004204
Std Dev 1.046

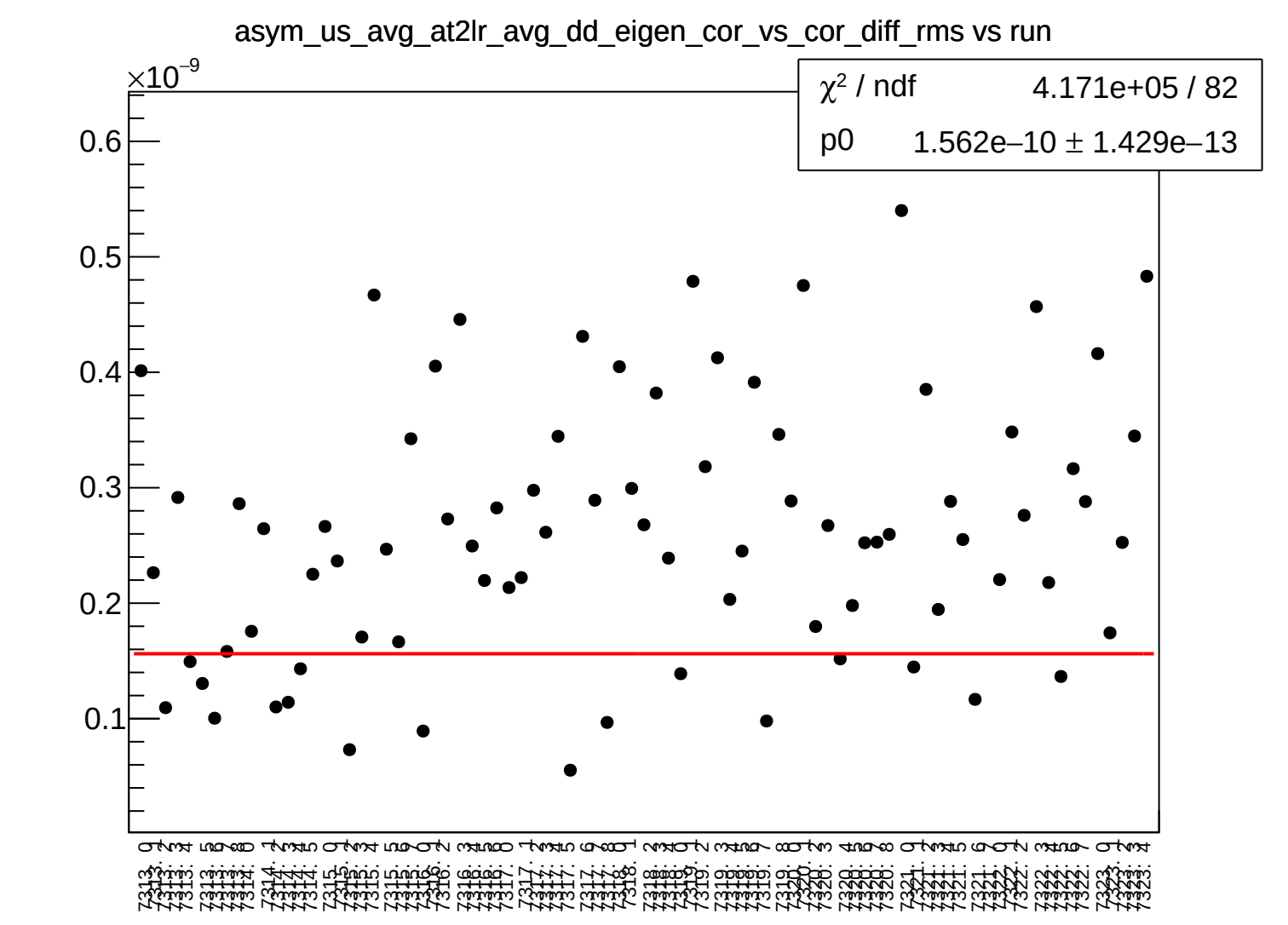

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.413e+04 / 82
p0 1161 ± 0.9245
1700
1600
1500
1400
1300
1200
1100
1000
900
800

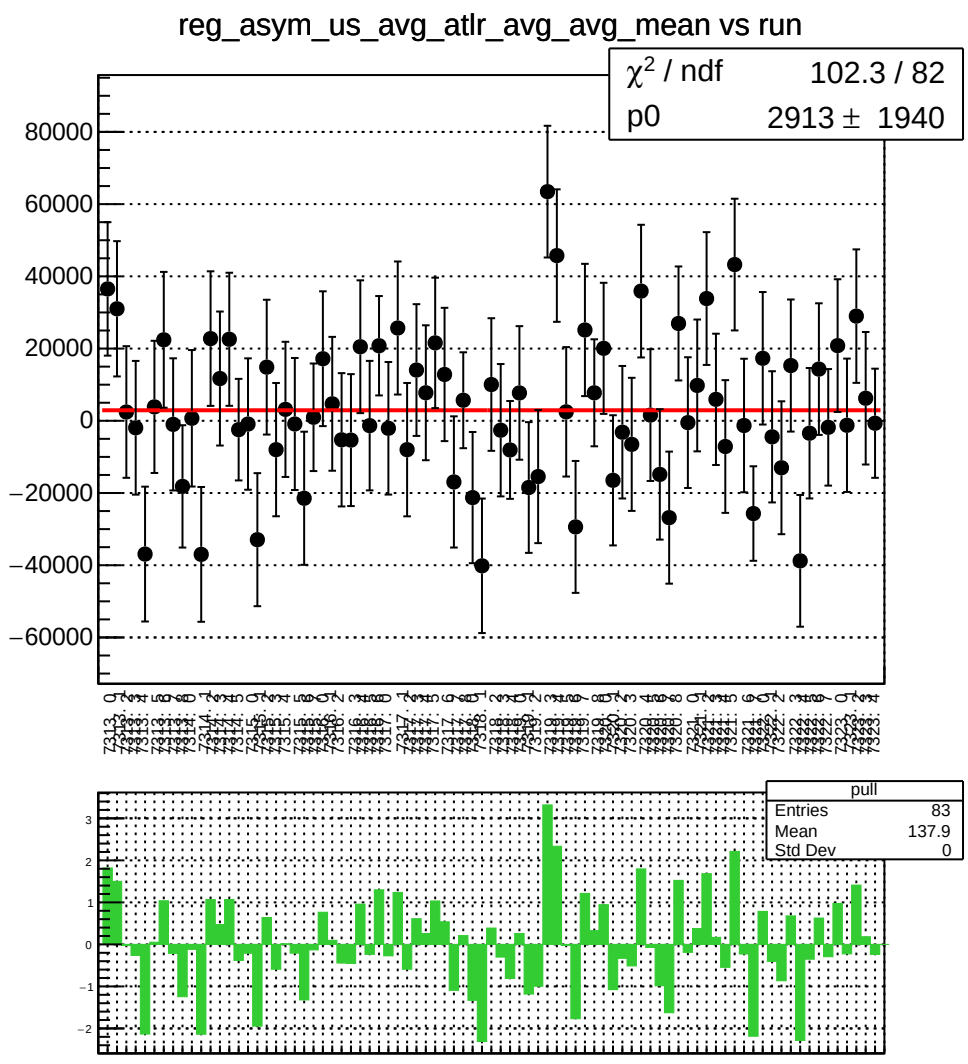

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.83 / 82
p0 −0.9533 ± 1.307
pull
Entries 83
Mean 1279
Std Dev 0
pull1D
Entries 83
Mean −0.004204
Std Dev 1.046

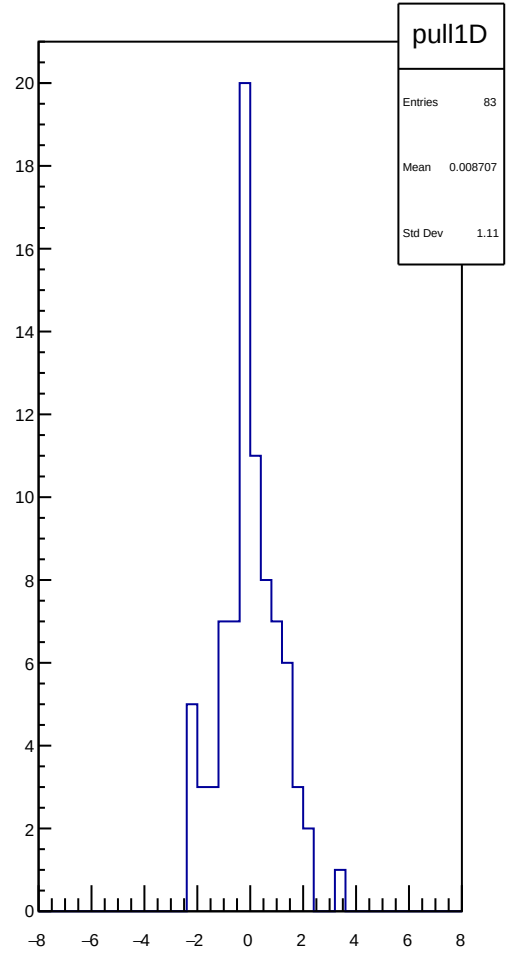

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.413e+04 / 82
p0 1161 ± 0.9245
1700
1600
1500
1400
1300
1200
1100
1000
900
800

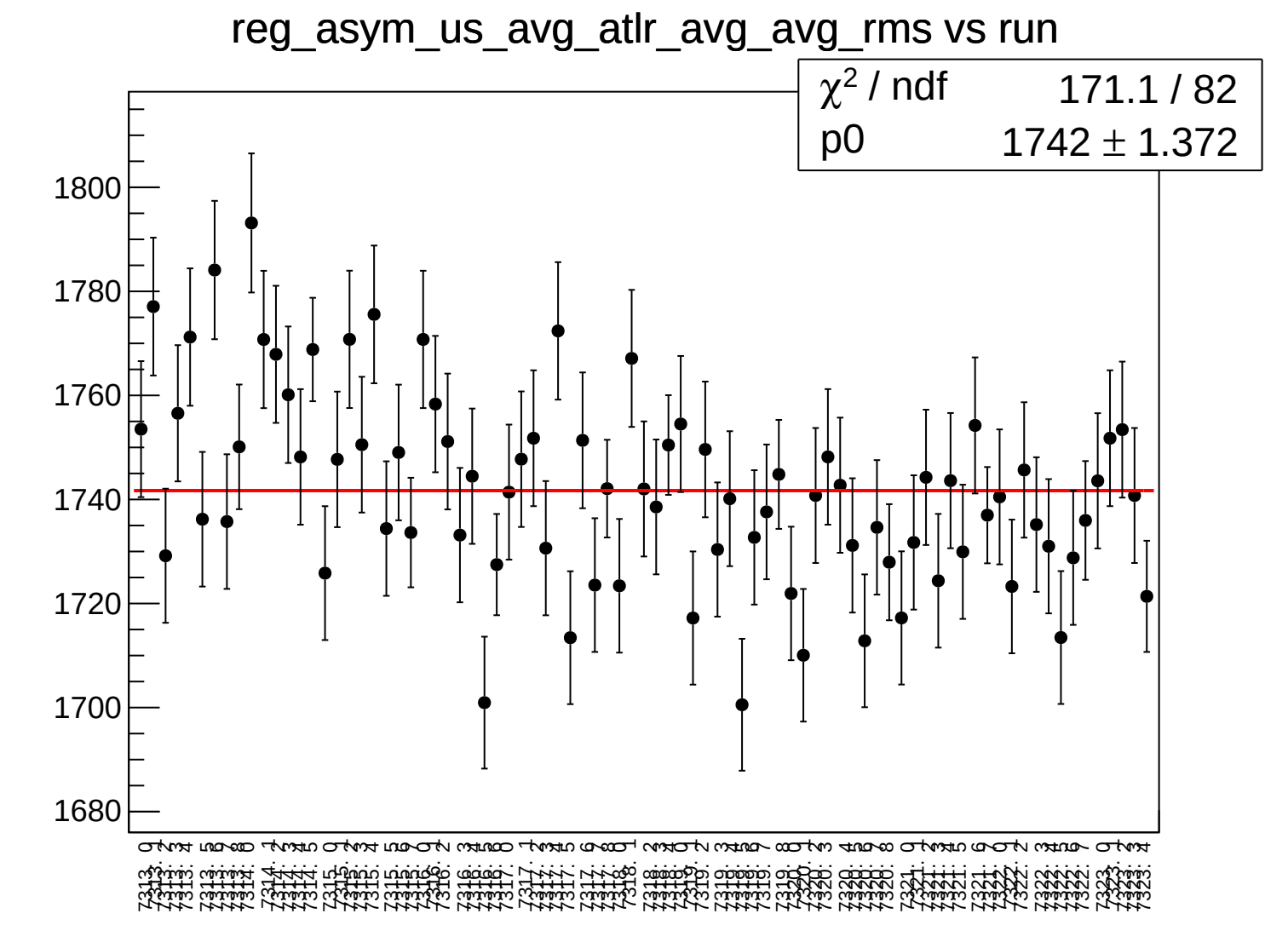

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.5 / 82
p0 2.674e−13 ± 2.021e−13
pull
Entries 83
Mean 354.9
Std Dev 0

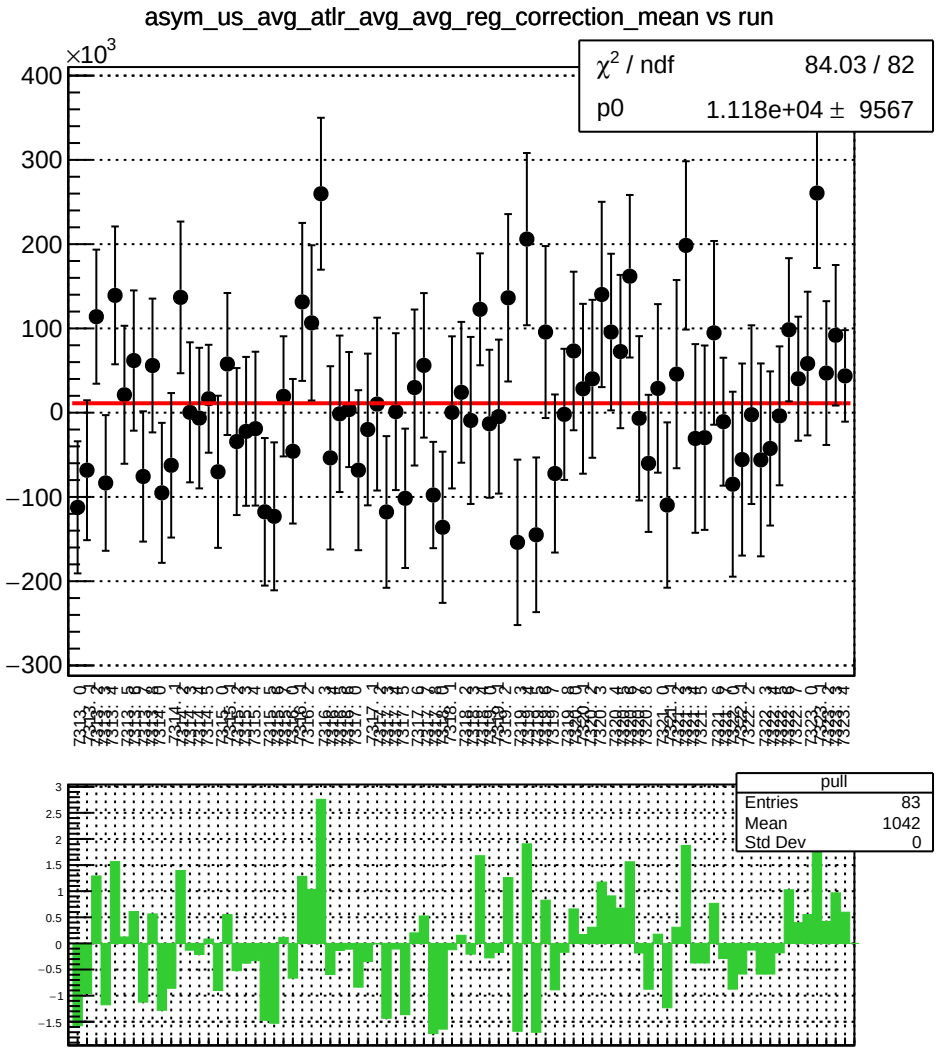

pull1D
Entries 83
Mean −0.01043
Std Dev 1.027

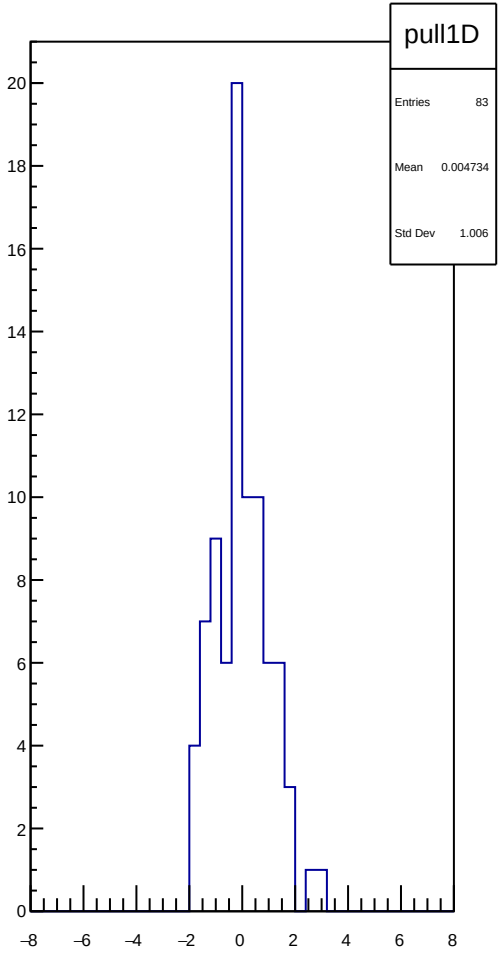

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.171e+05 / 82
p0 1.562e−10 ± 1.429e−13
0.6
0.5
0.4
0.3
0.2
0.1

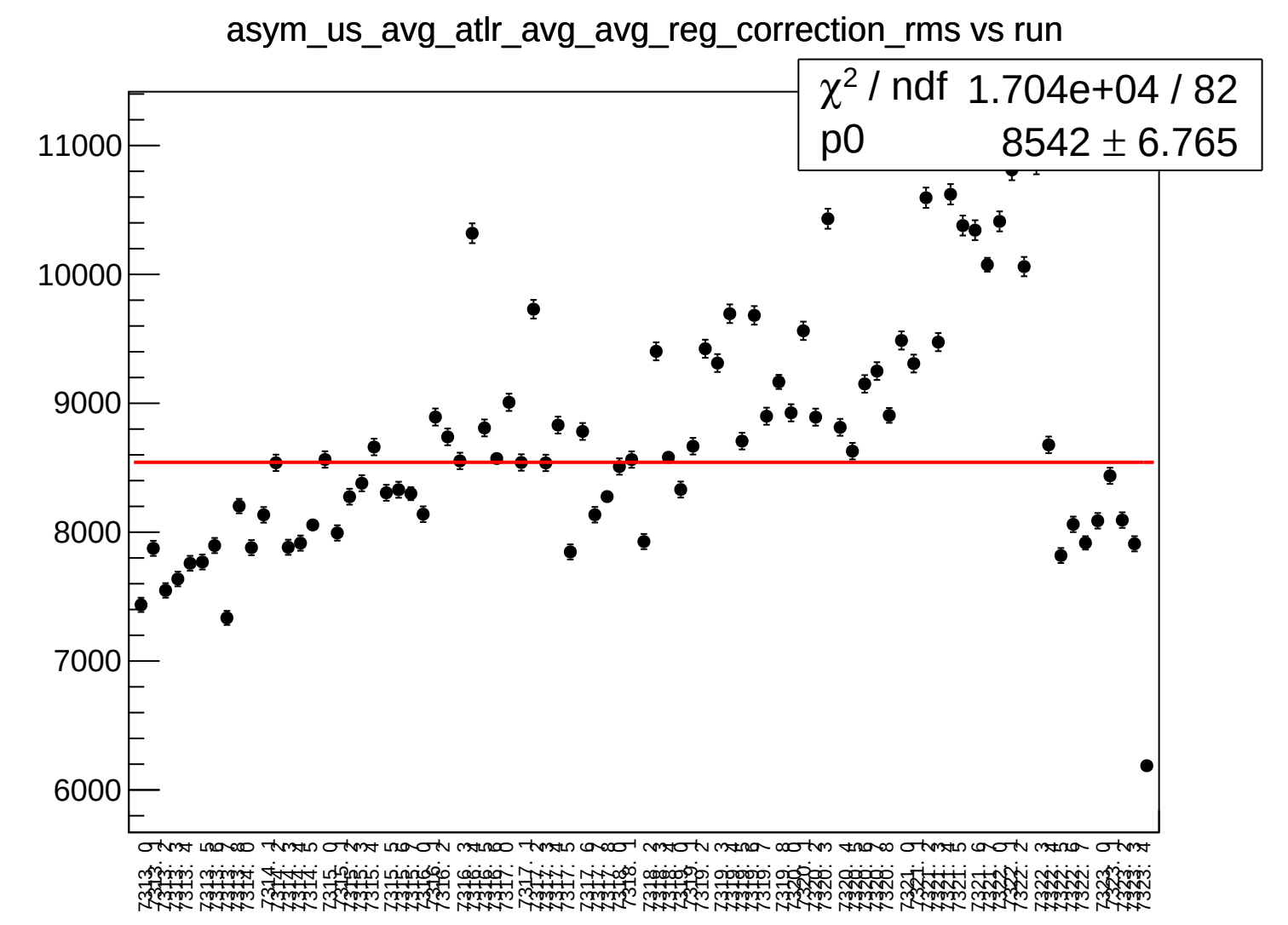

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.3 / 82
p0 2913 ± 1940
pull
Entries 83
Mean 137.9
Std Dev 0

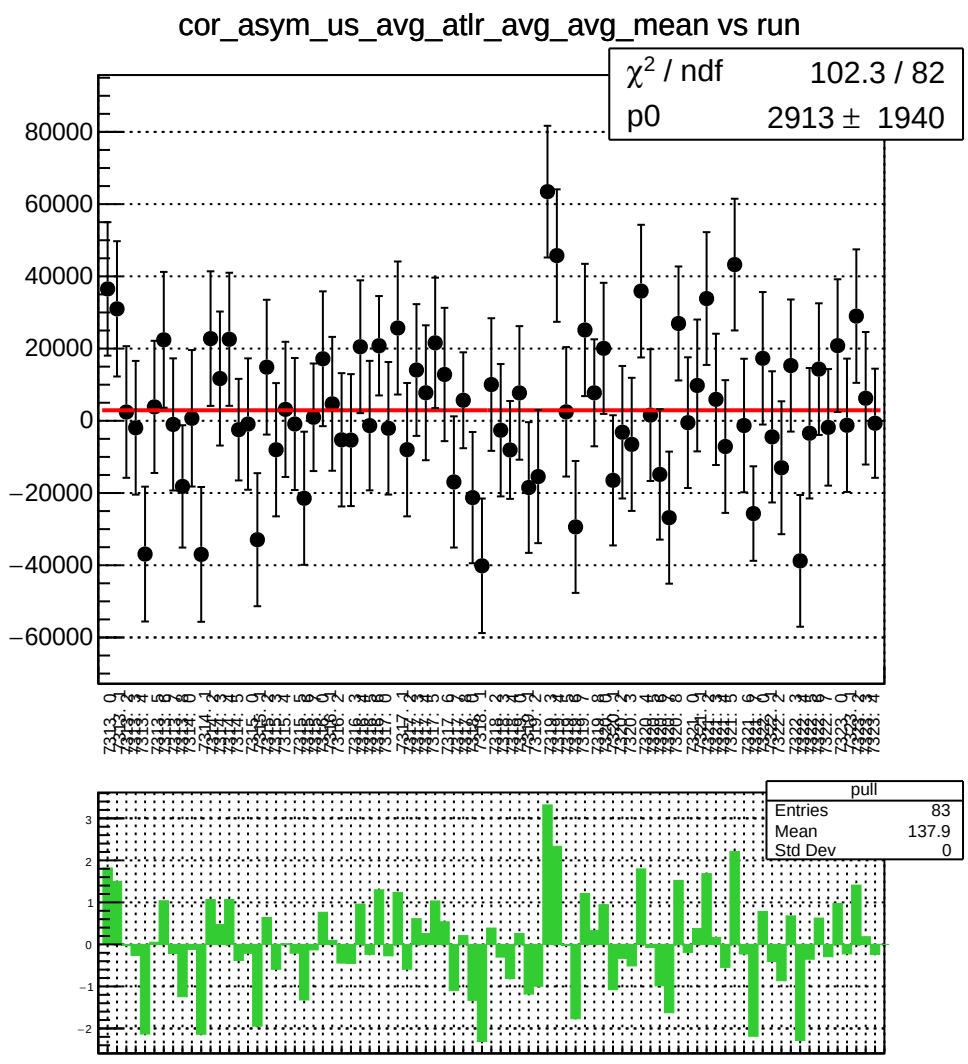

pull1D
Entries 83
Mean 0.008707
Std Dev 1.11

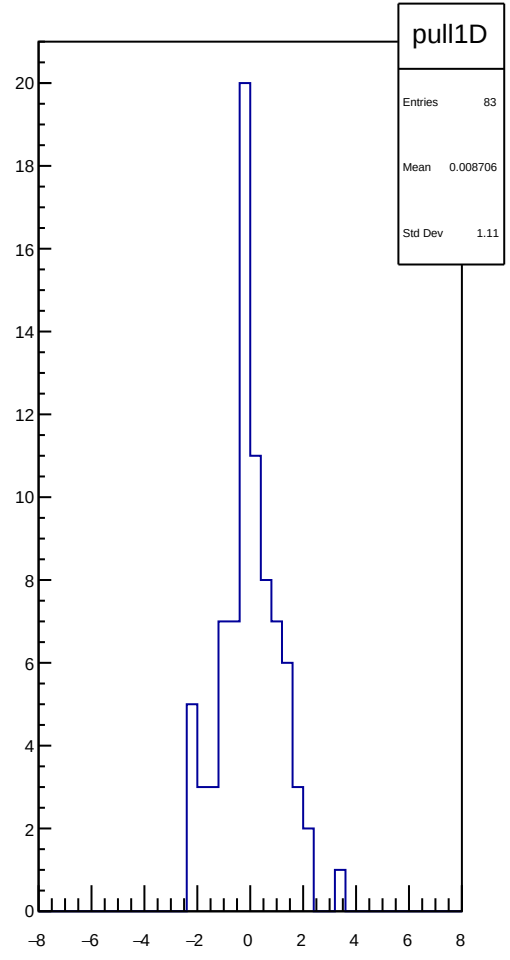

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 171.1 / 82
p0 1742 ± 1.372
1800
1780
1760
1740
1720
1700
1680

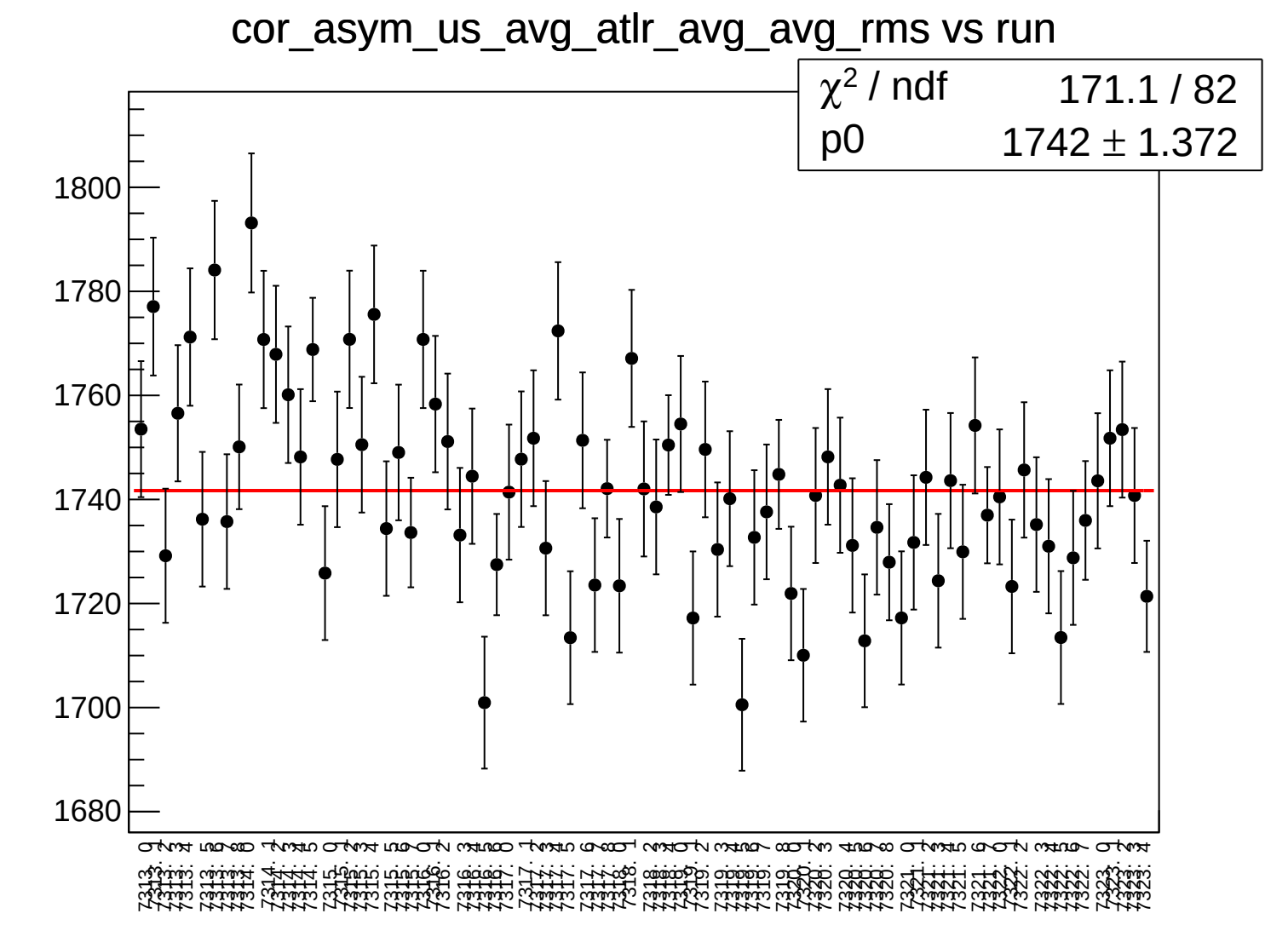

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.03 / 82
p0 1.118e+04 ± 9567
pull
Entries 83
Mean 1042
Std Dev 0

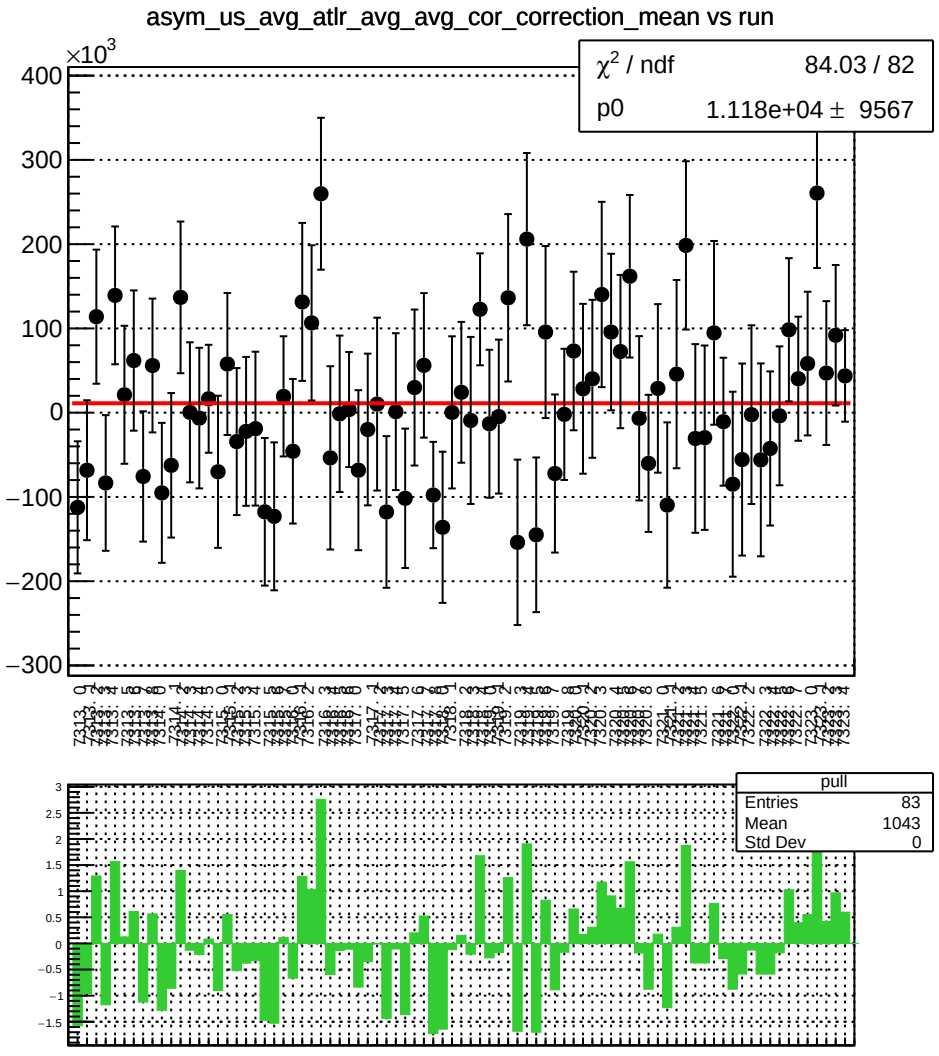

pull1D
Entries 83
Mean 0.004734
Std Dev 1.006

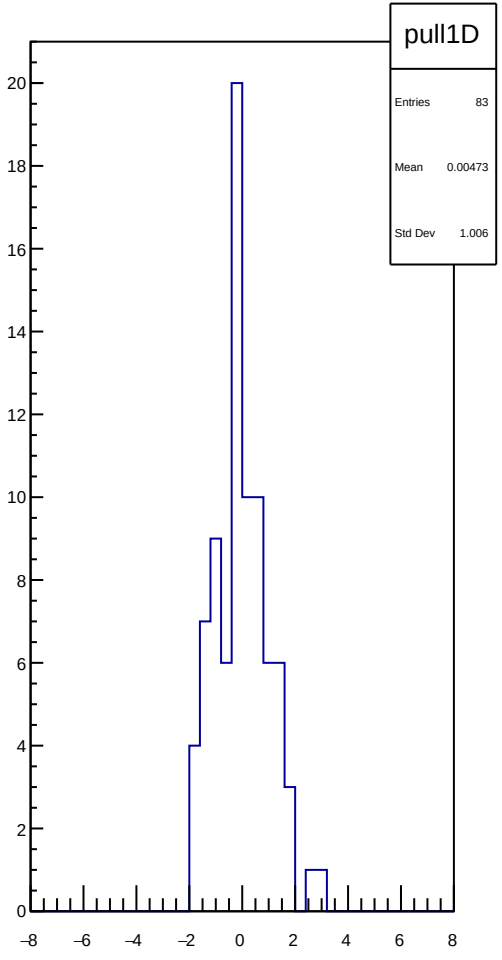

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.704e+04 / 82
p0 8542 ± 6.765
11000
10000
9000
8000
7000
6000

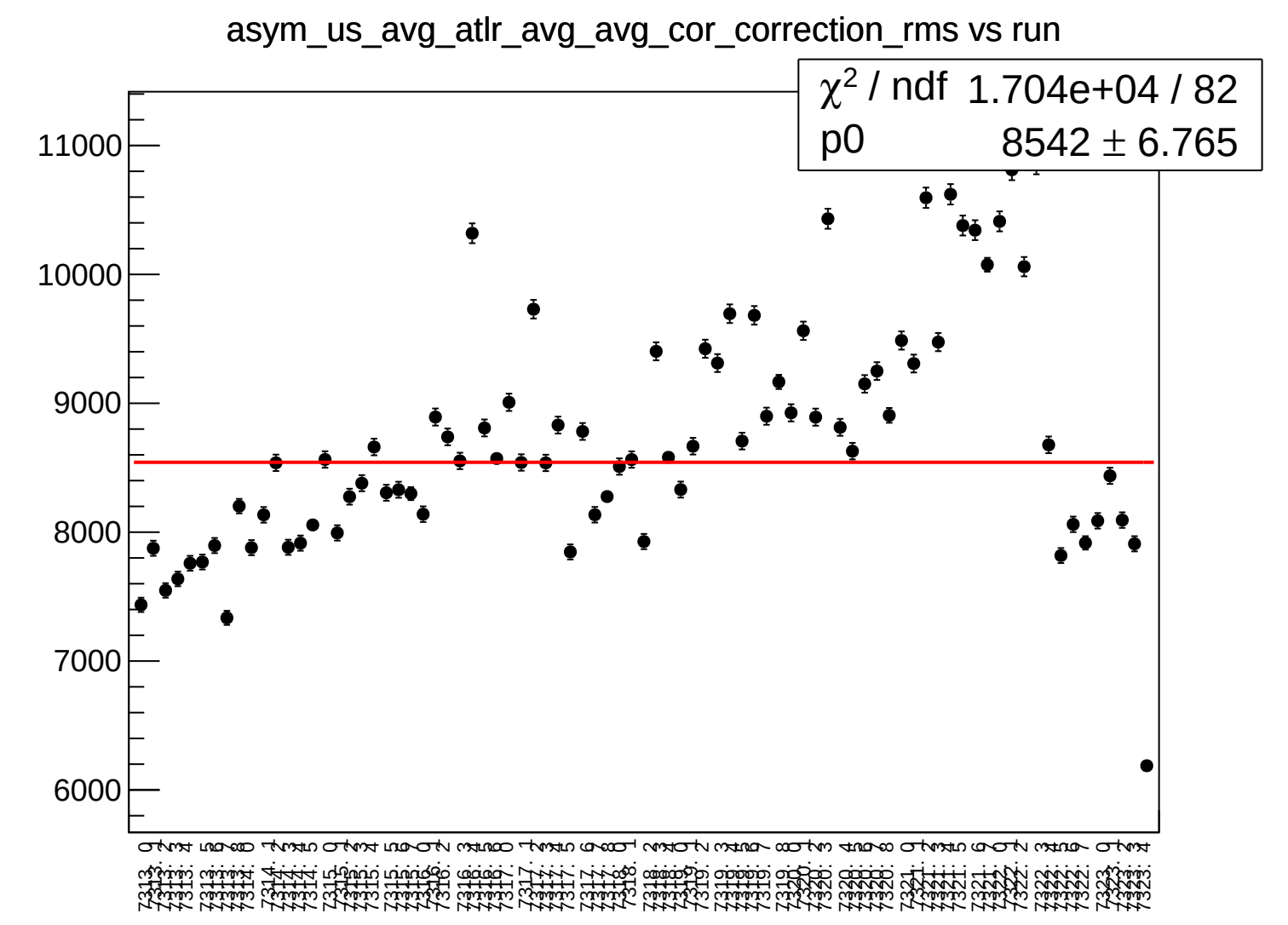

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.3 / 82
p0 2913 ± 1940
pull
Entries 83
Mean 137.9
Std Dev 0

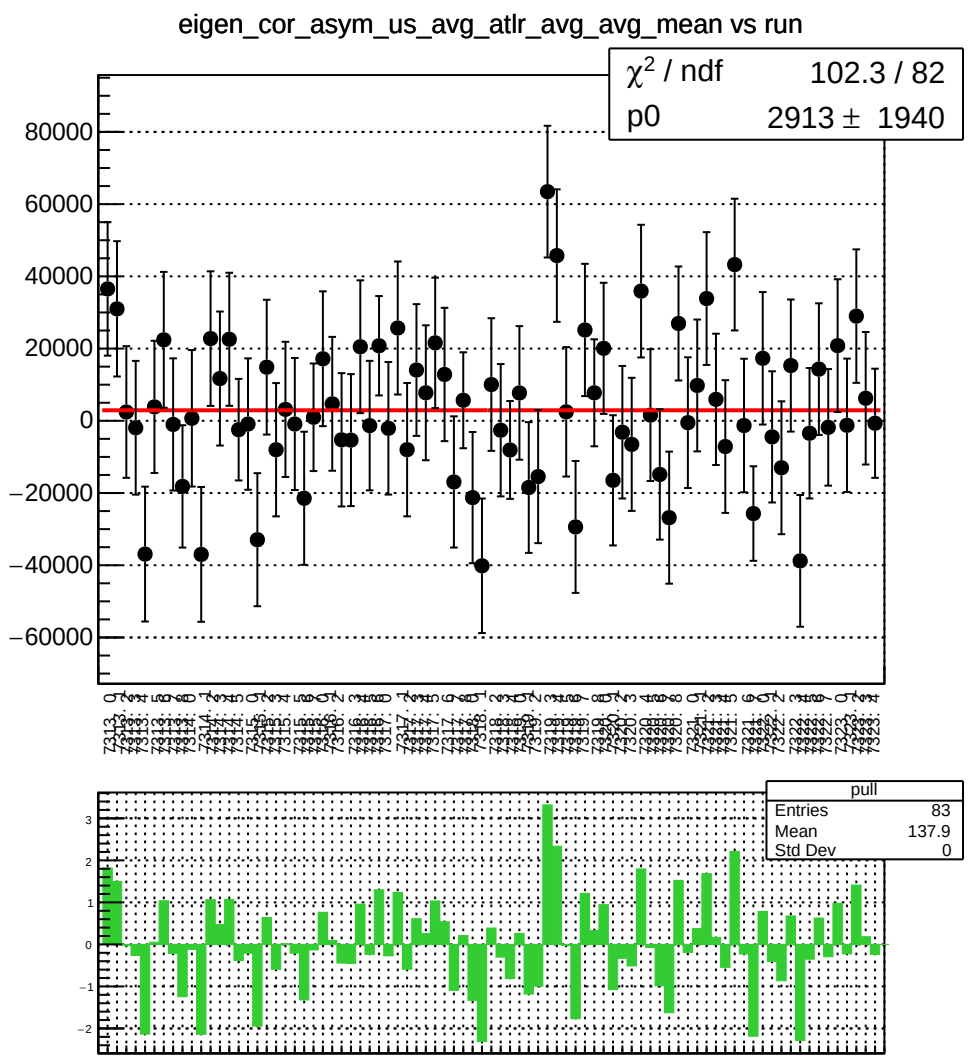

pull1D
Entries 83
Mean 0.008706
Std Dev 1.11

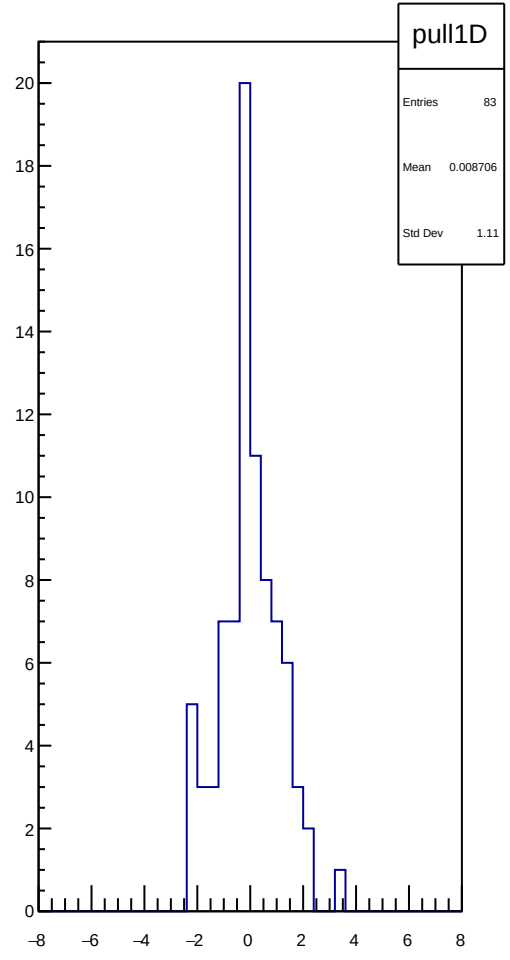

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 171.1 / 82
p0 1742 ± 1.372
1800
1780
1760
1740
1720
1700
1680

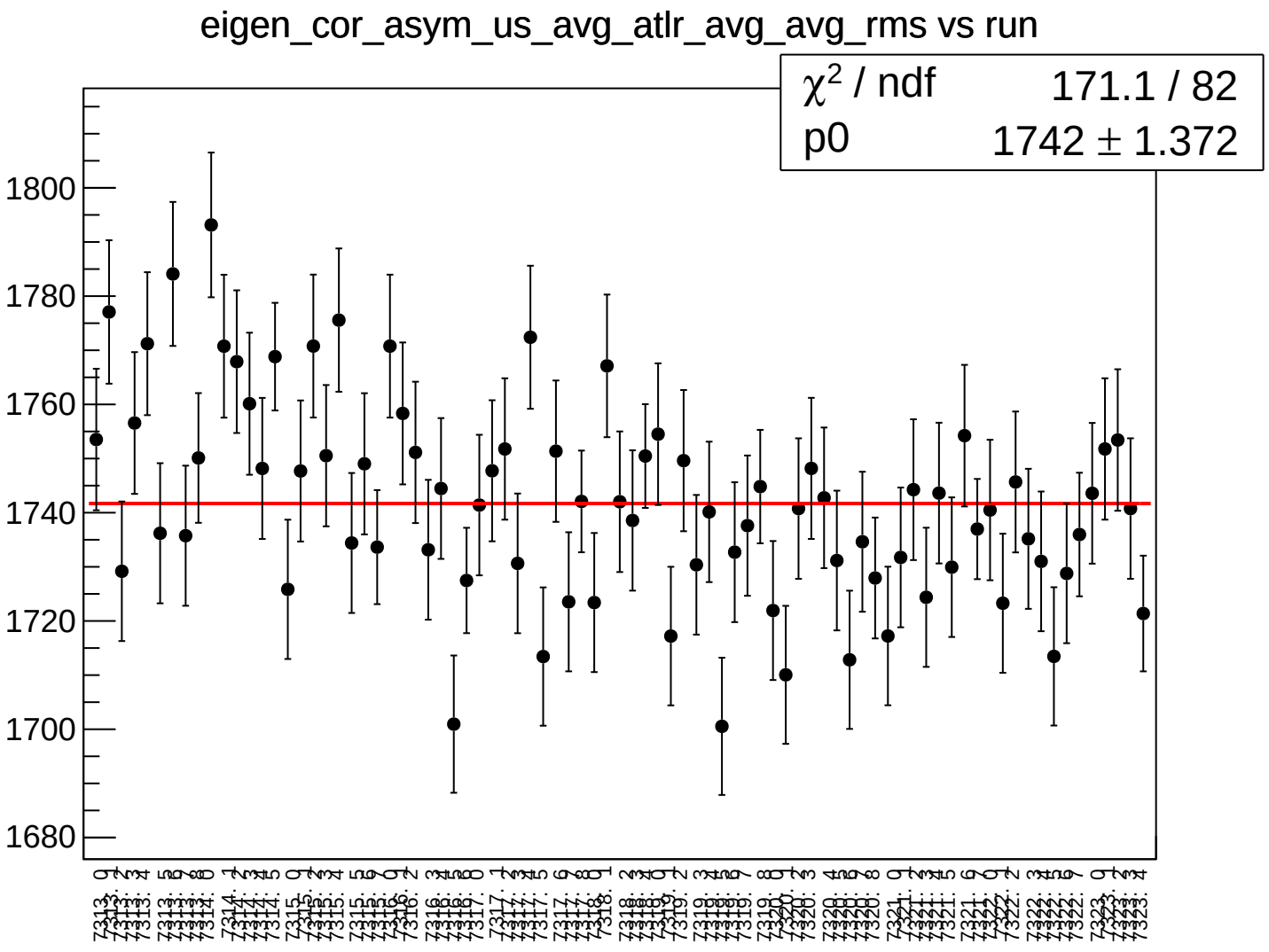

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.03 / 82
p0 1.118e+04 ± 9567
pull
Entries 83
Mean 1043
Std Dev 0

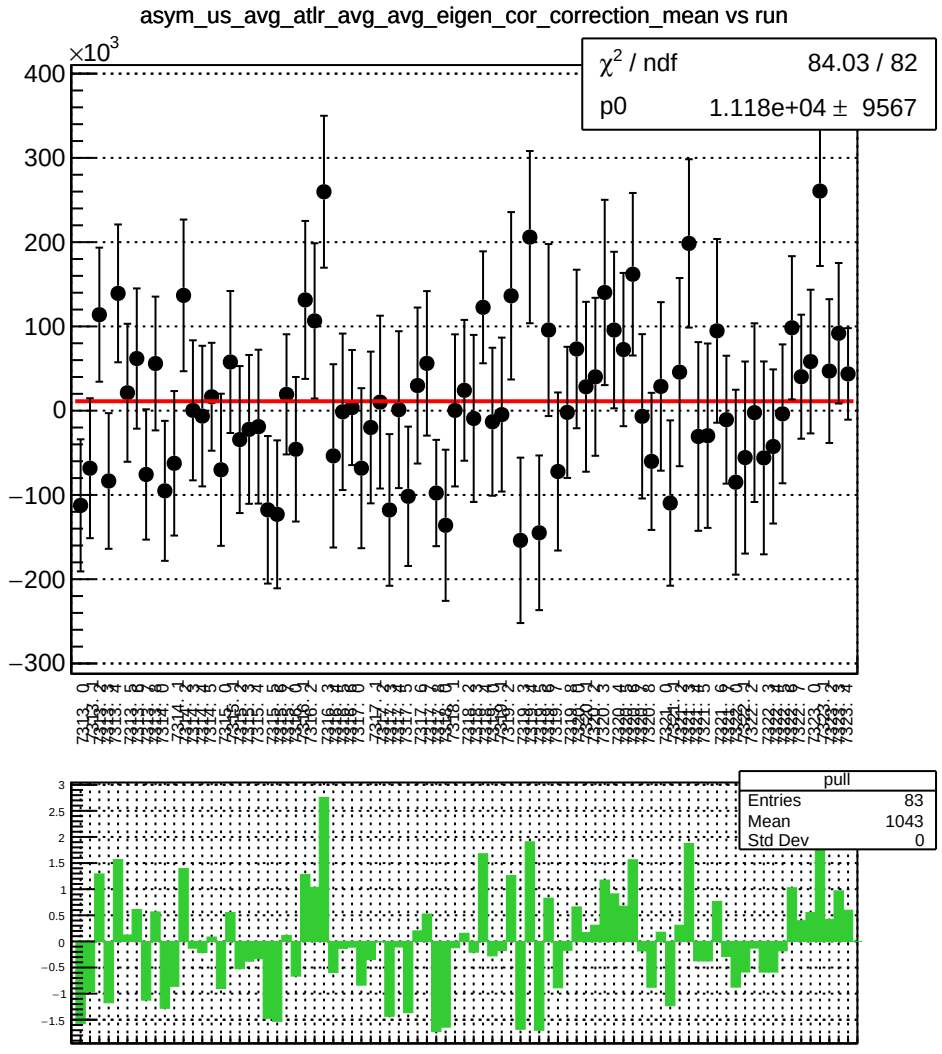

pull1D
Entries 83
Mean 0.00473
Std Dev 1.006

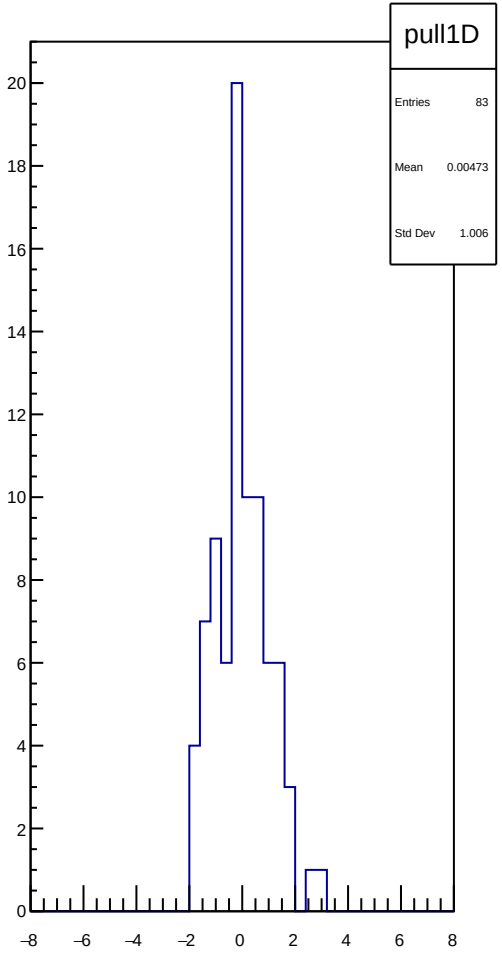

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.704e+04 / 82
p0 8542 ± 6.765
11000
10000
9000
8000
7000
6000

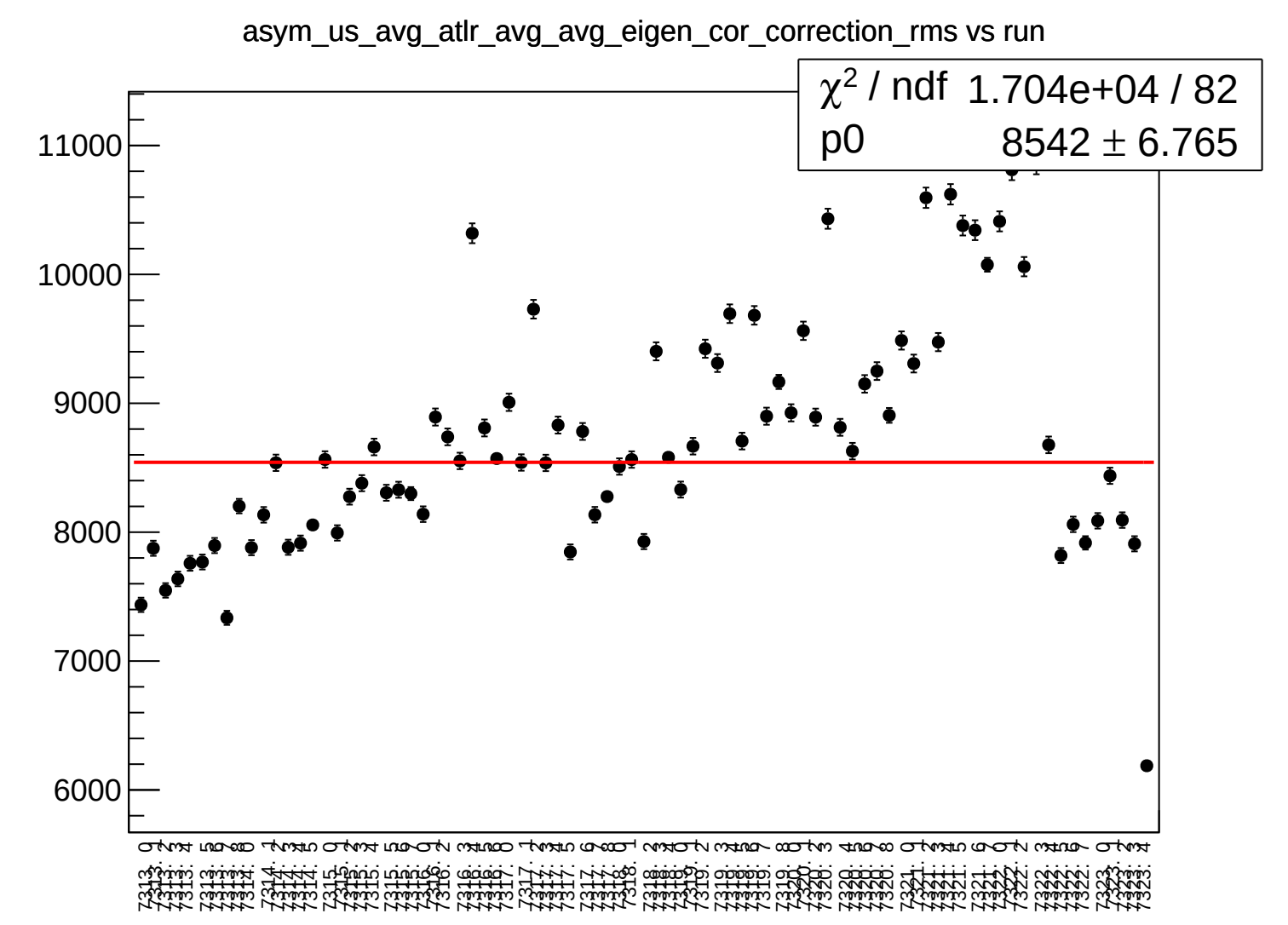

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.3 / 82
p0 2913 ± 1940
pull
Entries 83
Mean 137.9
Std Dev 0

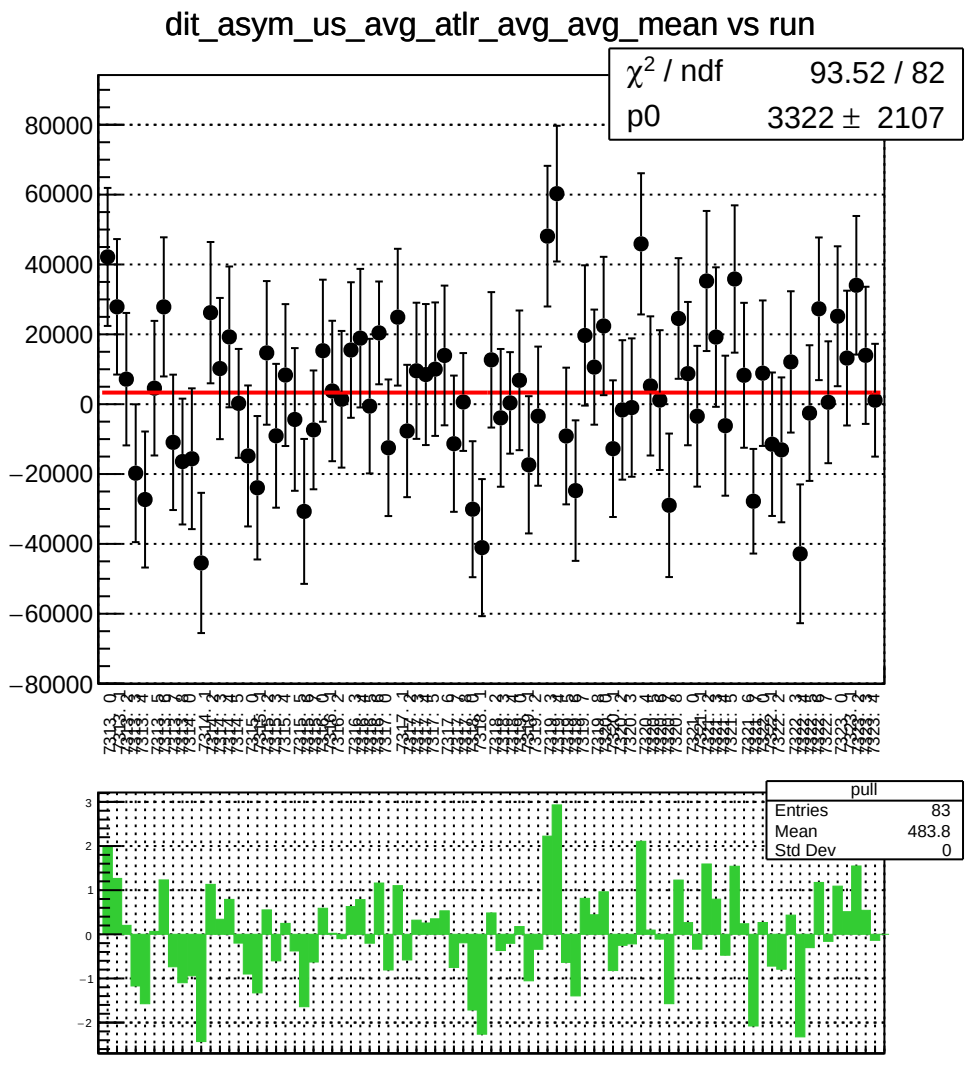

pull1D
Entries 83
Mean 0.008706
Std Dev 1.11

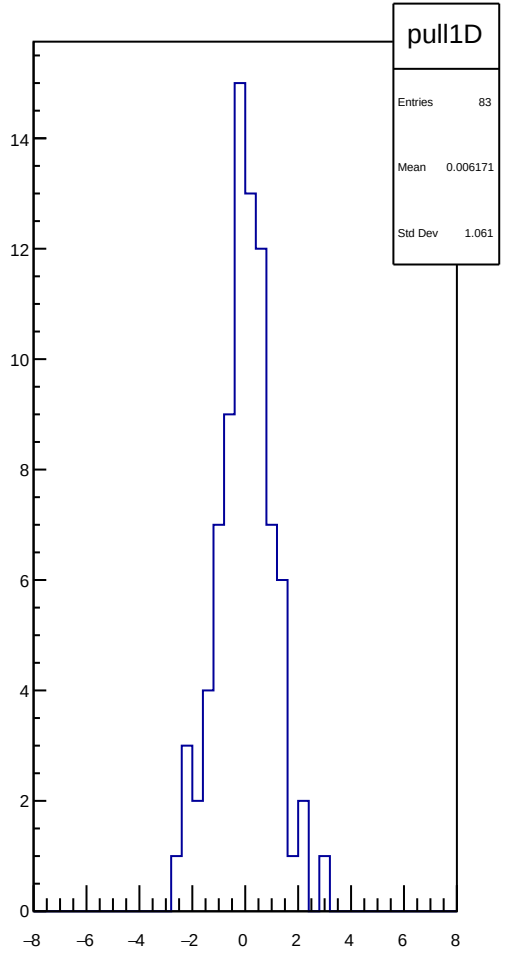

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 171.1 / 82
p0 1742 ± 1.372
1800
1780
1760
1740
1720
1700
1680

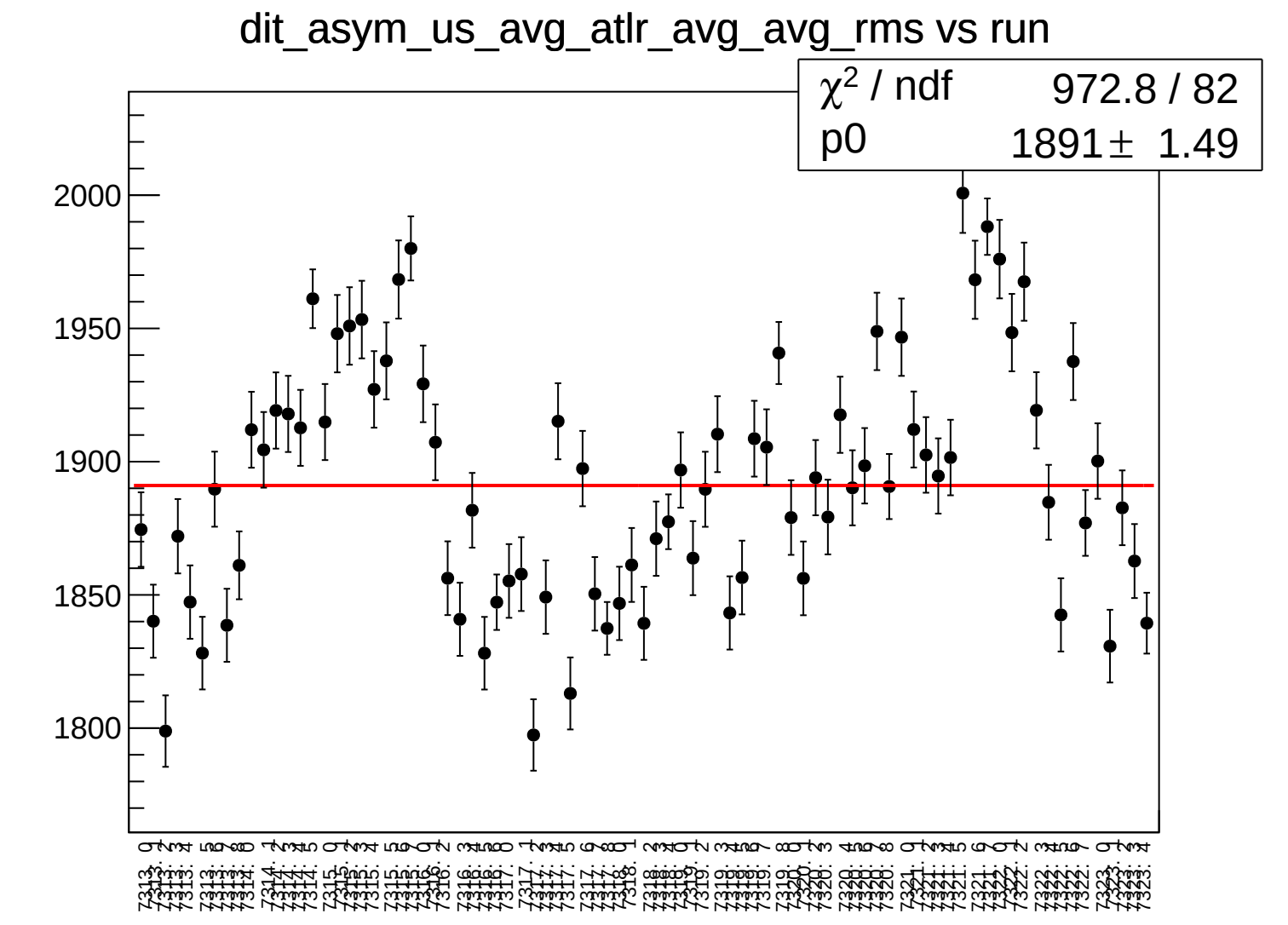

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.03 / 82
p0 1.118e+04 ± 9567
pull
Entries 83
Mean 1043
Std Dev 0

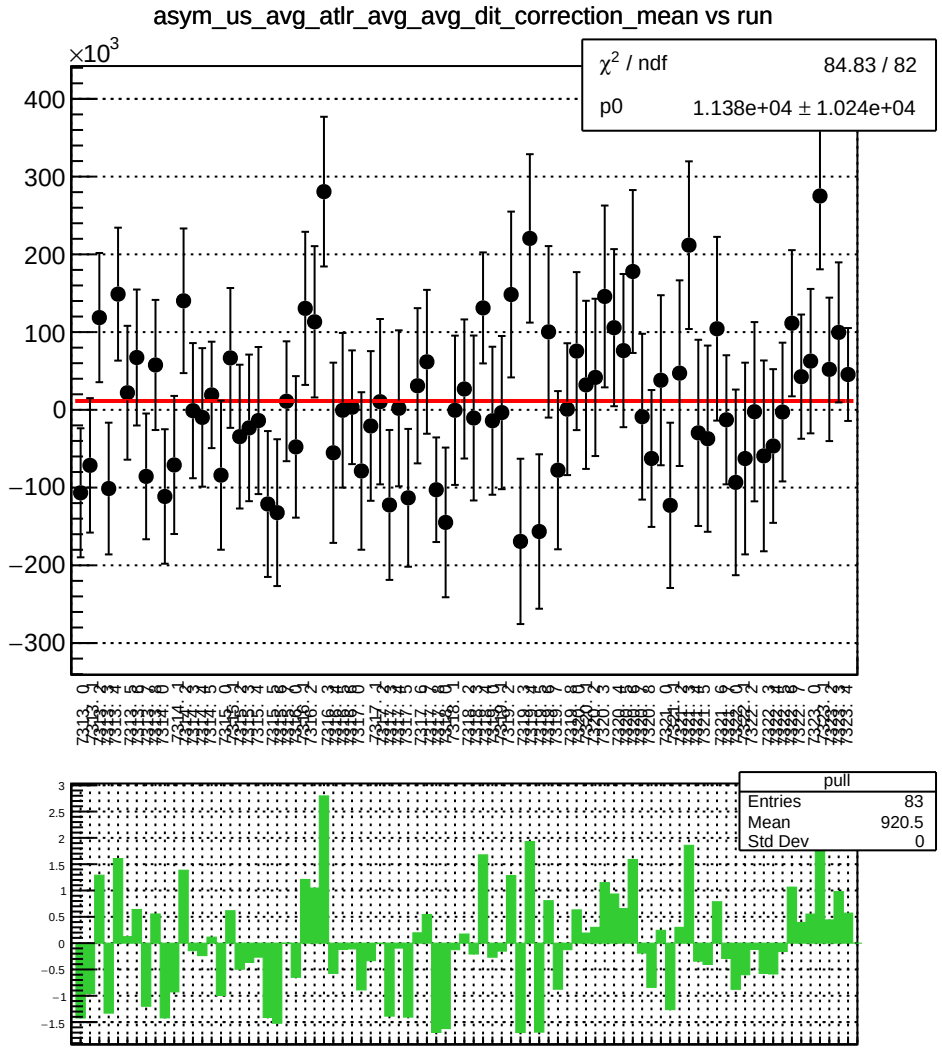

pull1D
Entries 83
Mean 0.00473
Std Dev 1.006

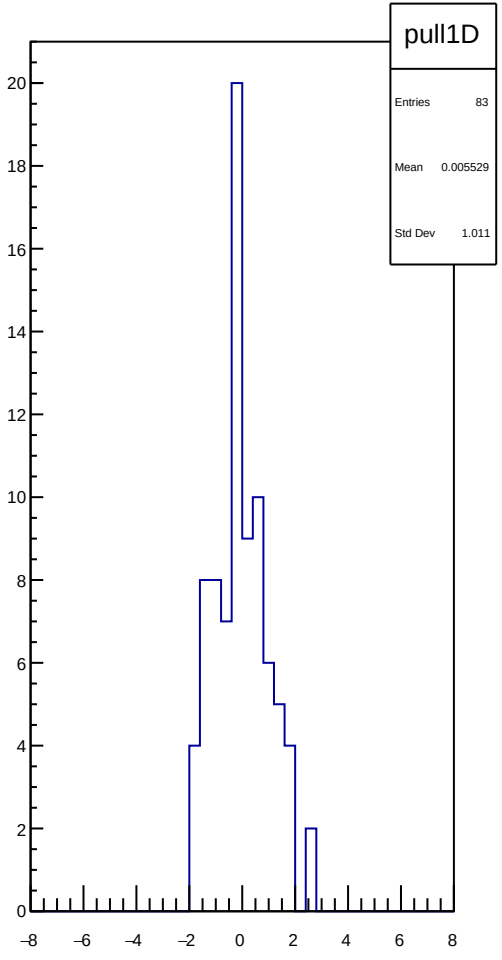

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.704e+04 / 82
p0 8542 ± 6.765
11000
10000
9000
8000
7000
6000

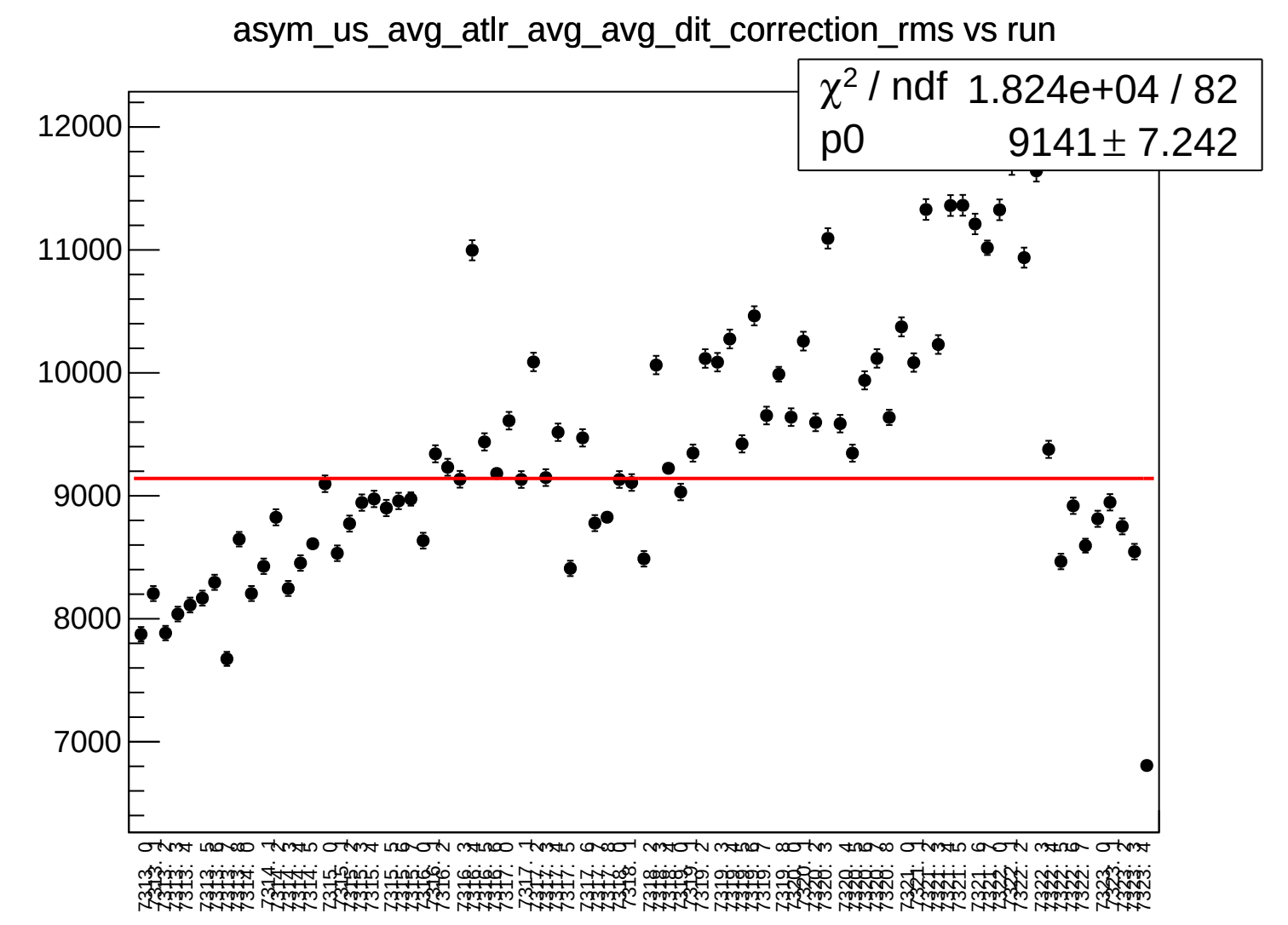

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.52 / 82
p0 3322 ± 2107
pull
Entries 83
Mean 483.8
Std Dev 0

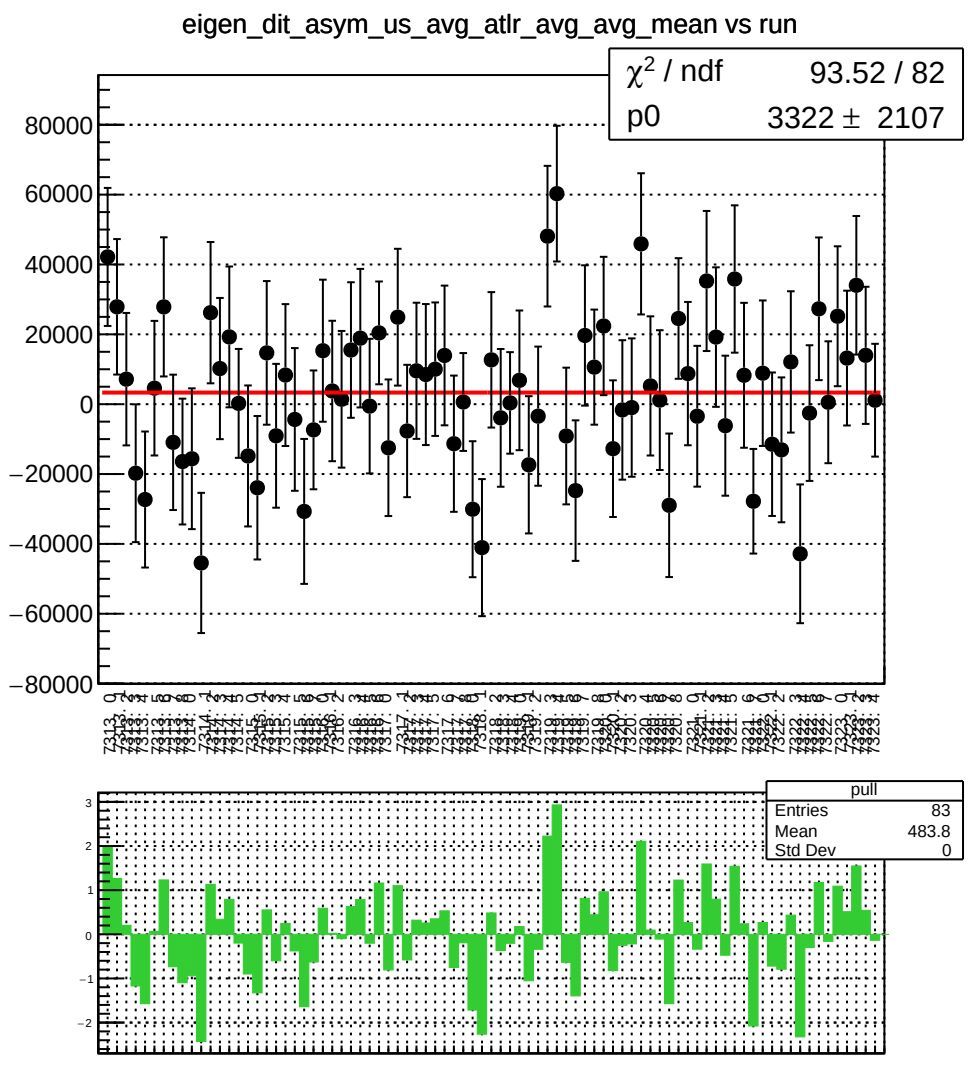

pull1D
Entries 83
Mean 0.006171
Std Dev 1.061

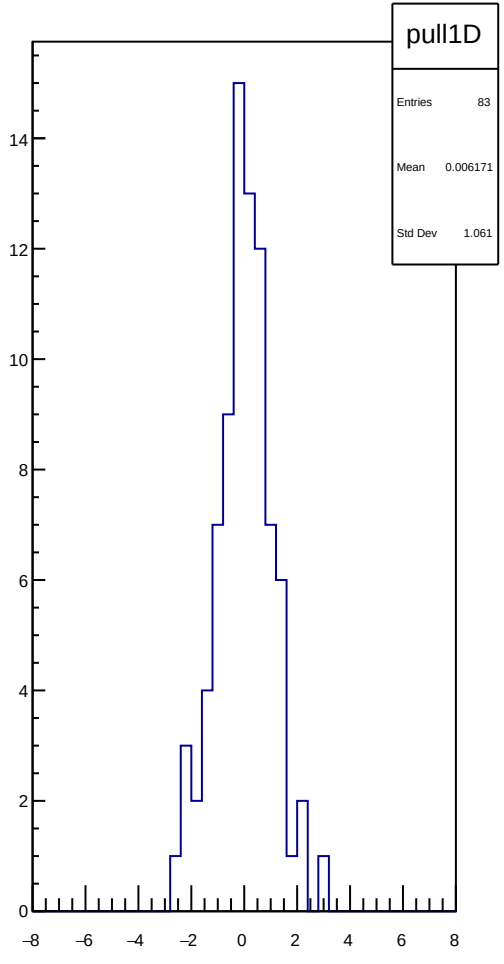

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 972.8 / 82
p0 1891 ± 1.49
2000
1950
1900
1850
1800

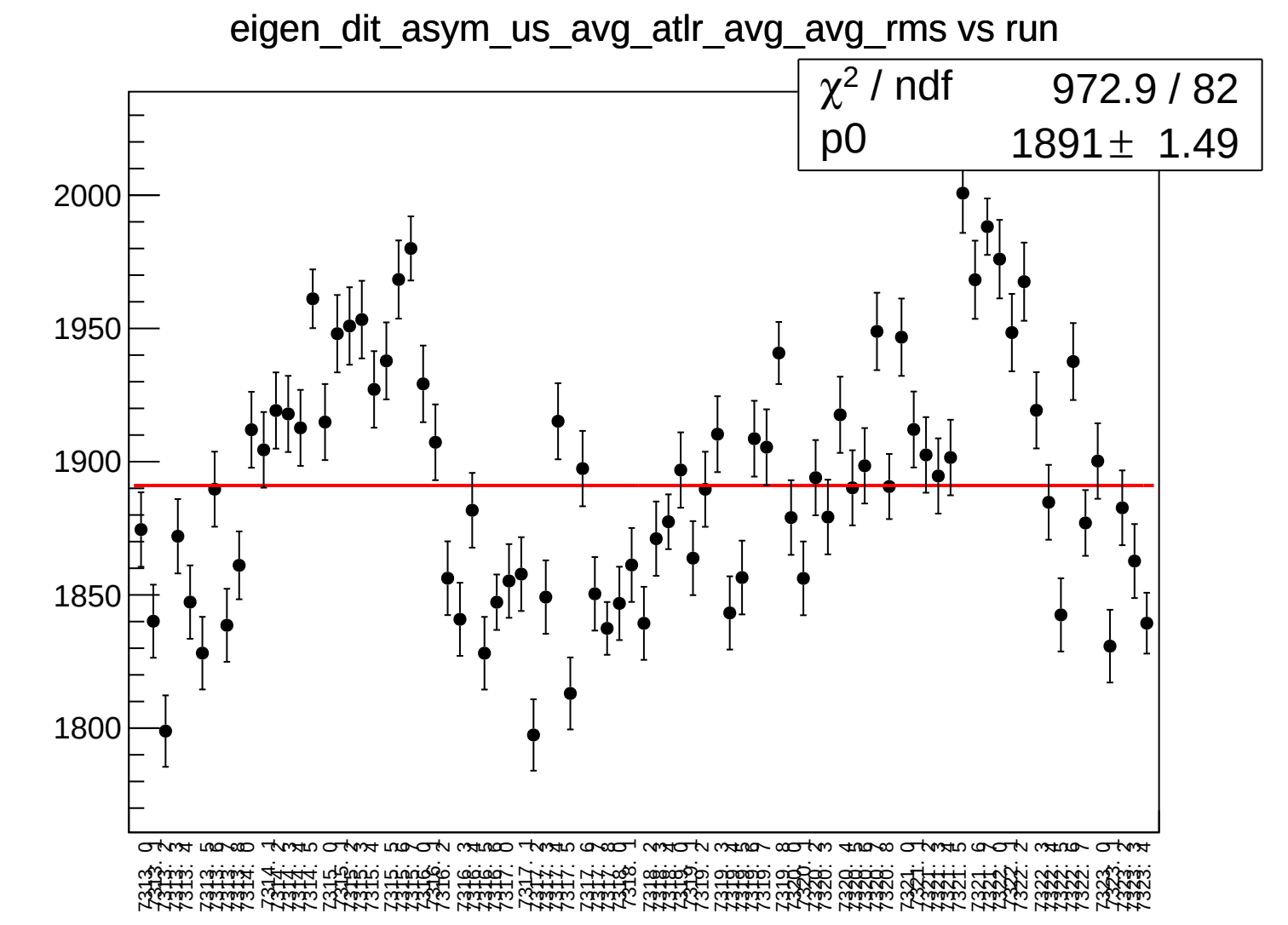

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.83 / 82
p0 1.138e+04 ± 1.024e+04
pull
Entries 83
Mean 920.5
Std Dev 0

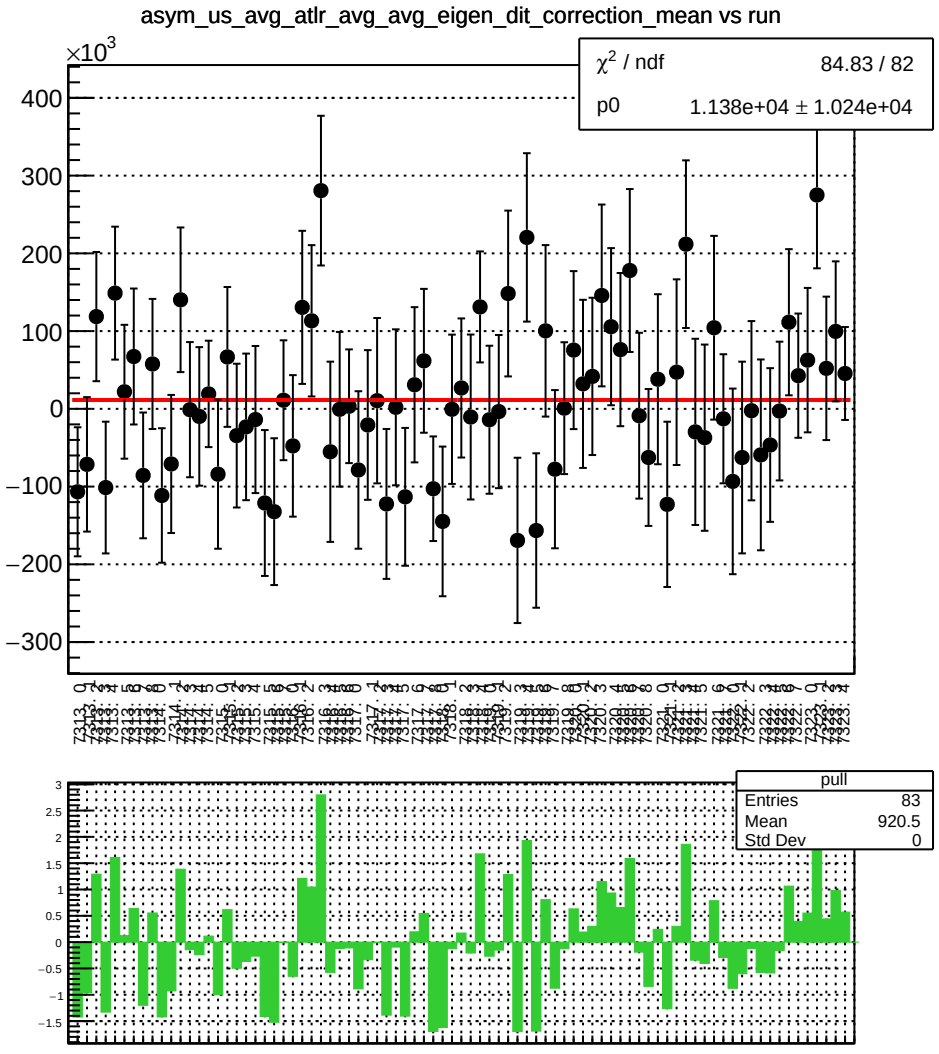

pull1D
Entries 83
Mean 0.005529
Std Dev 1.011

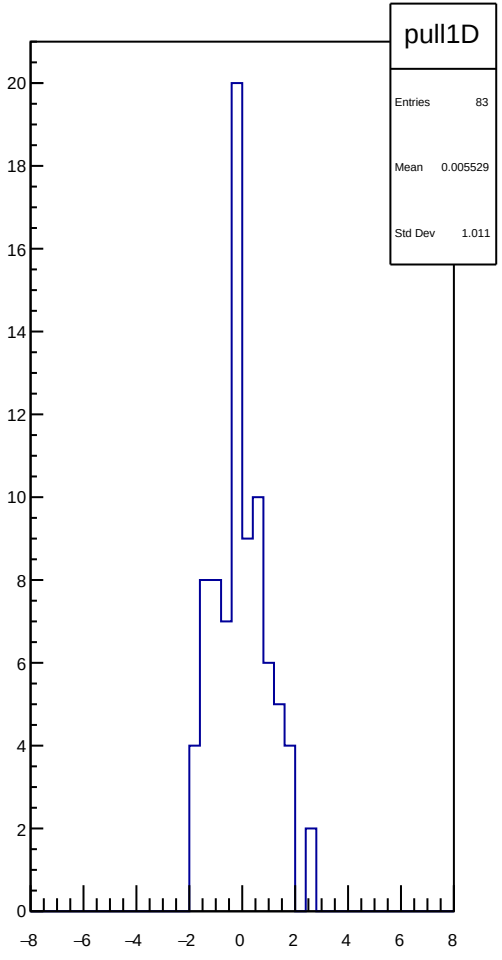

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.824e+04 / 82
p0 9141 ± 7.242
12000
11000
10000
9000
8000
7000

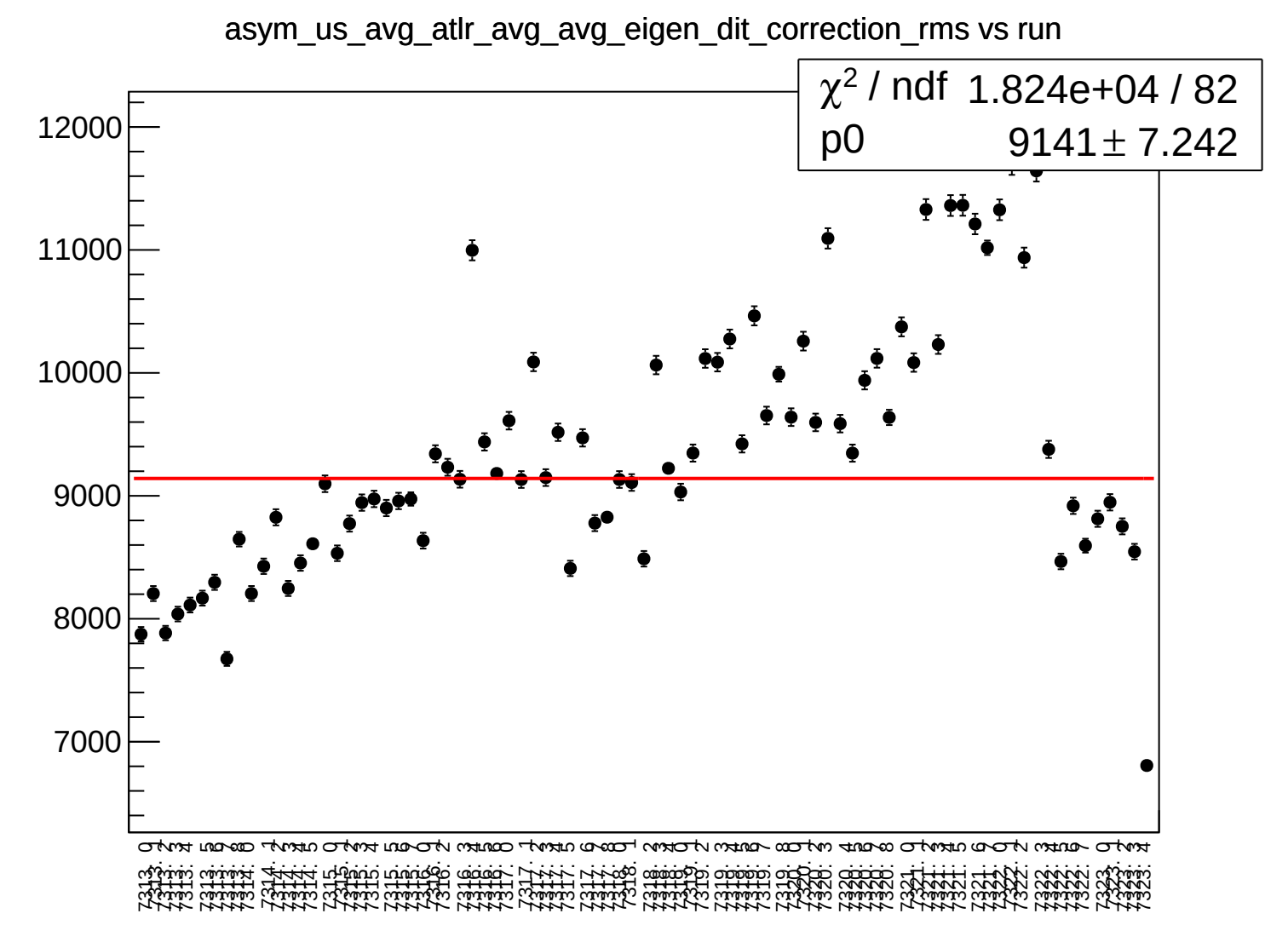

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.52 / 82
p0 3322 ± 2107
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean 483.8
Std Dev 0
3
2
1
0
−1
−2

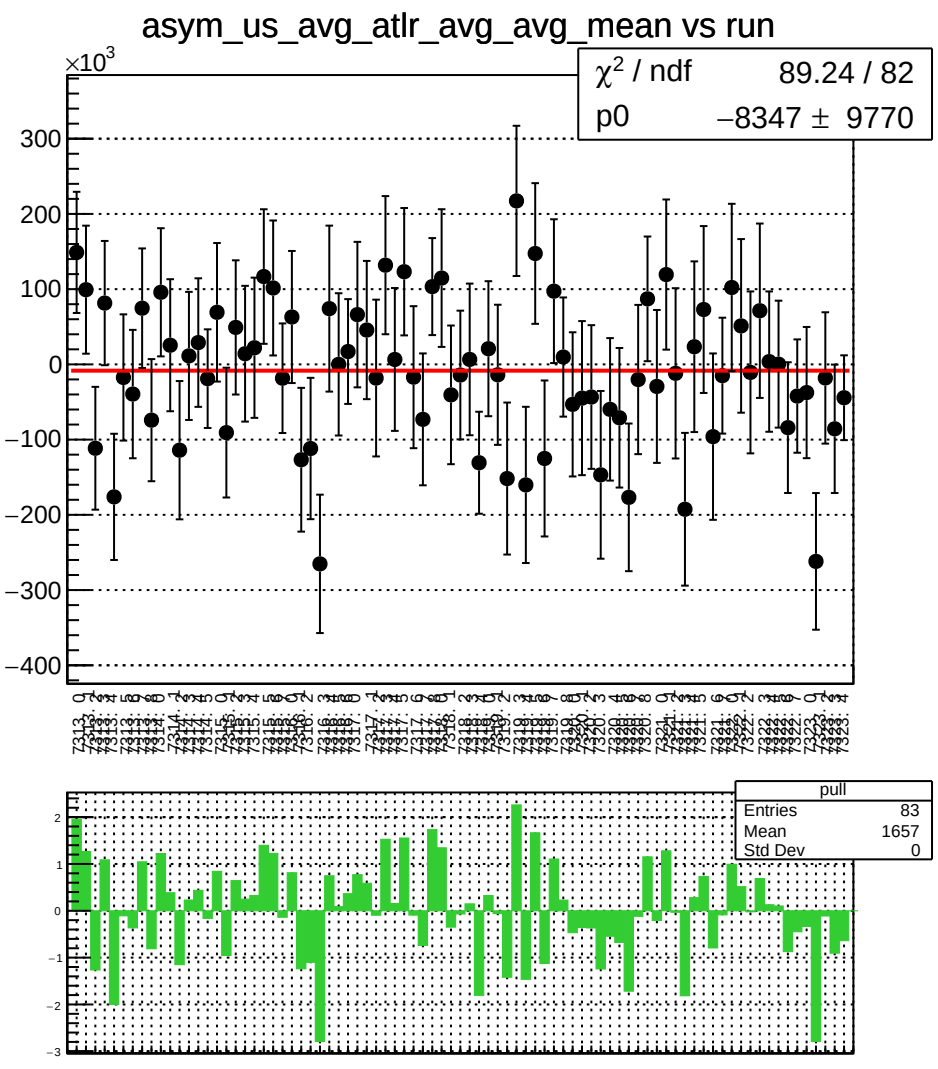

pull1D
Entries 83
Mean 0.006171
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

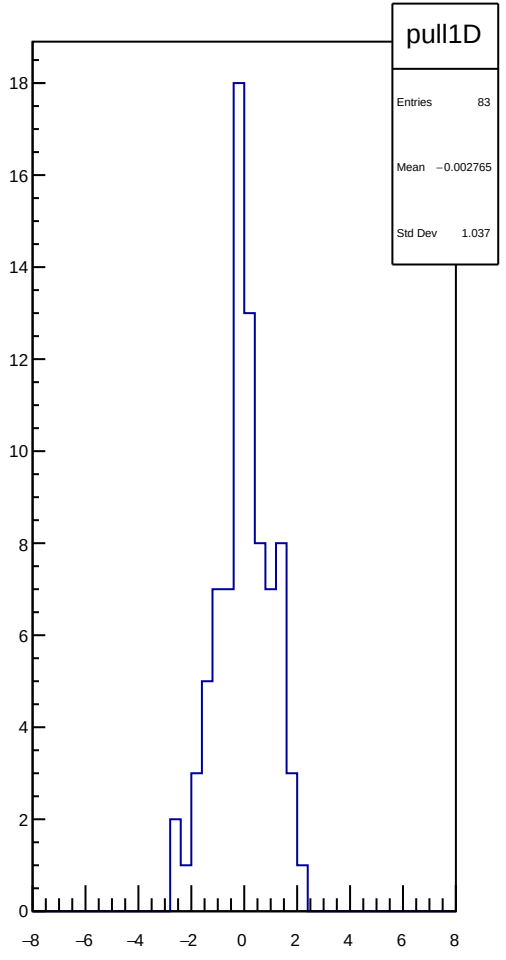

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 972.9 / 82
p0 1891 ± 1.49
2000
1950
1900
1850
1800

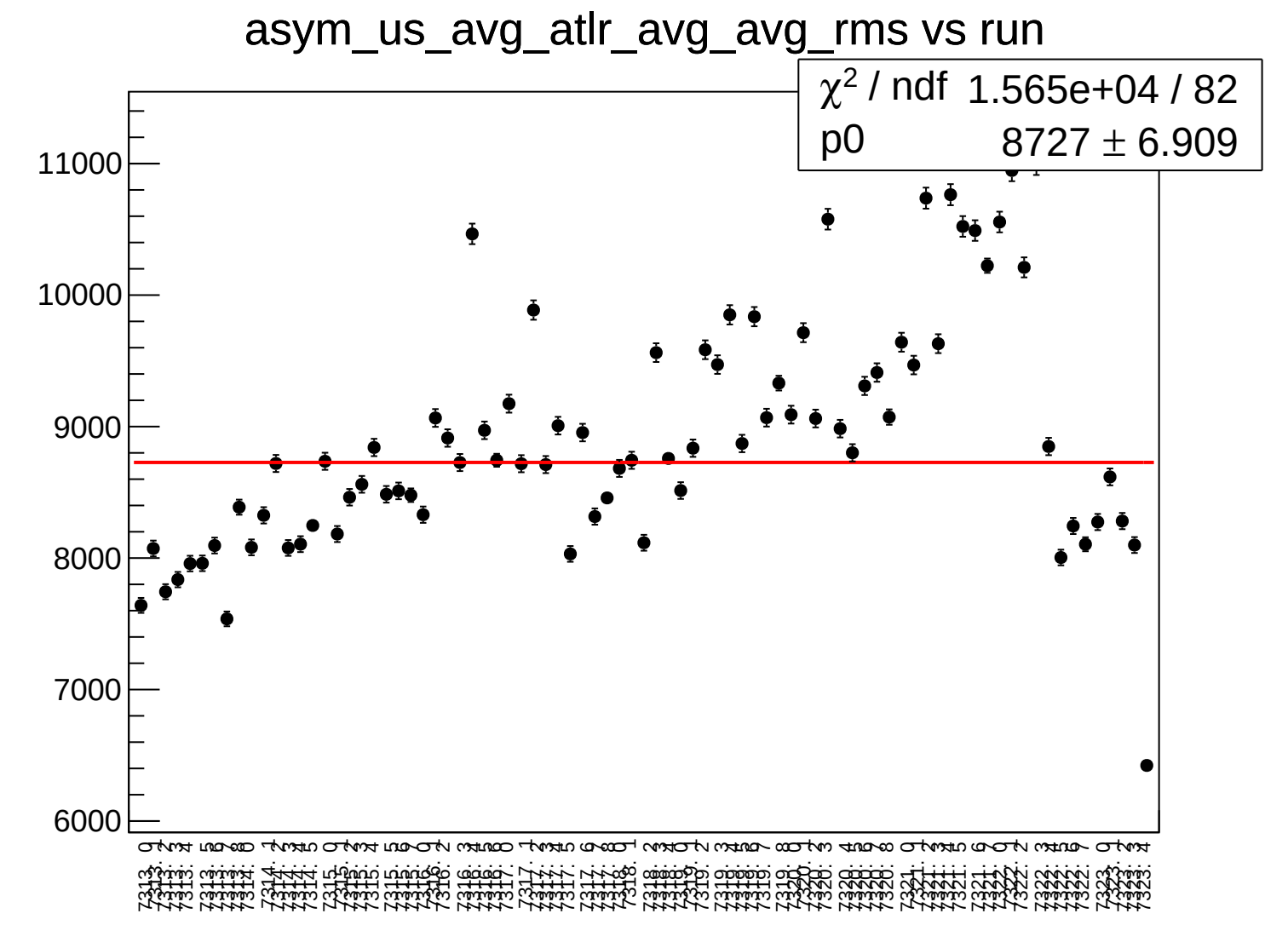

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.83 / 82
p0 1.138e+04 ± 1.024e+04
pull
Entries 83
Mean 920.5
Std Dev 0

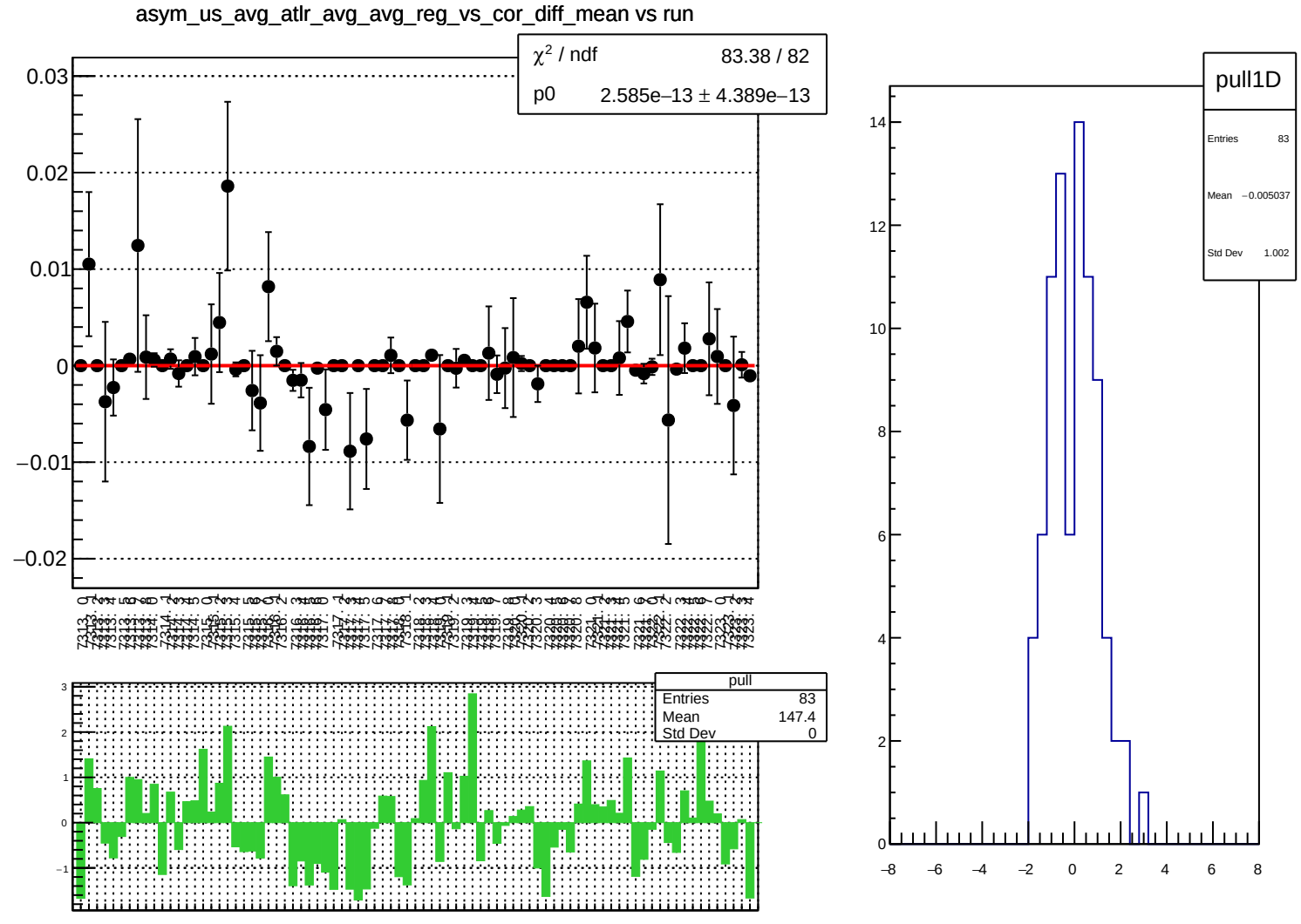

pull1D
Entries 83
Mean 0.005529
Std Dev 1.011

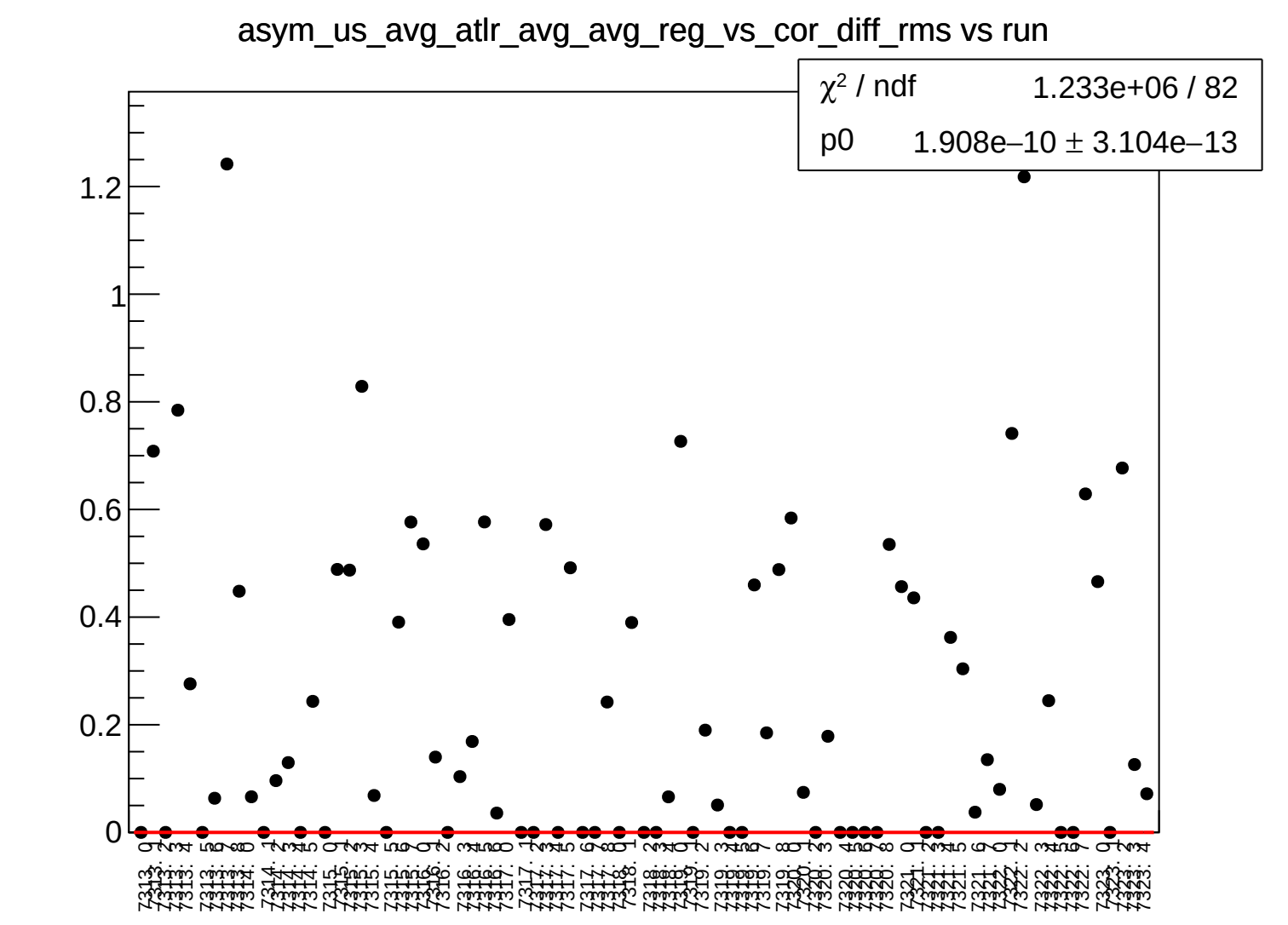

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.824e+04 / 82
p0 9141 ± 7.242
12000
11000
10000
9000
8000
7000

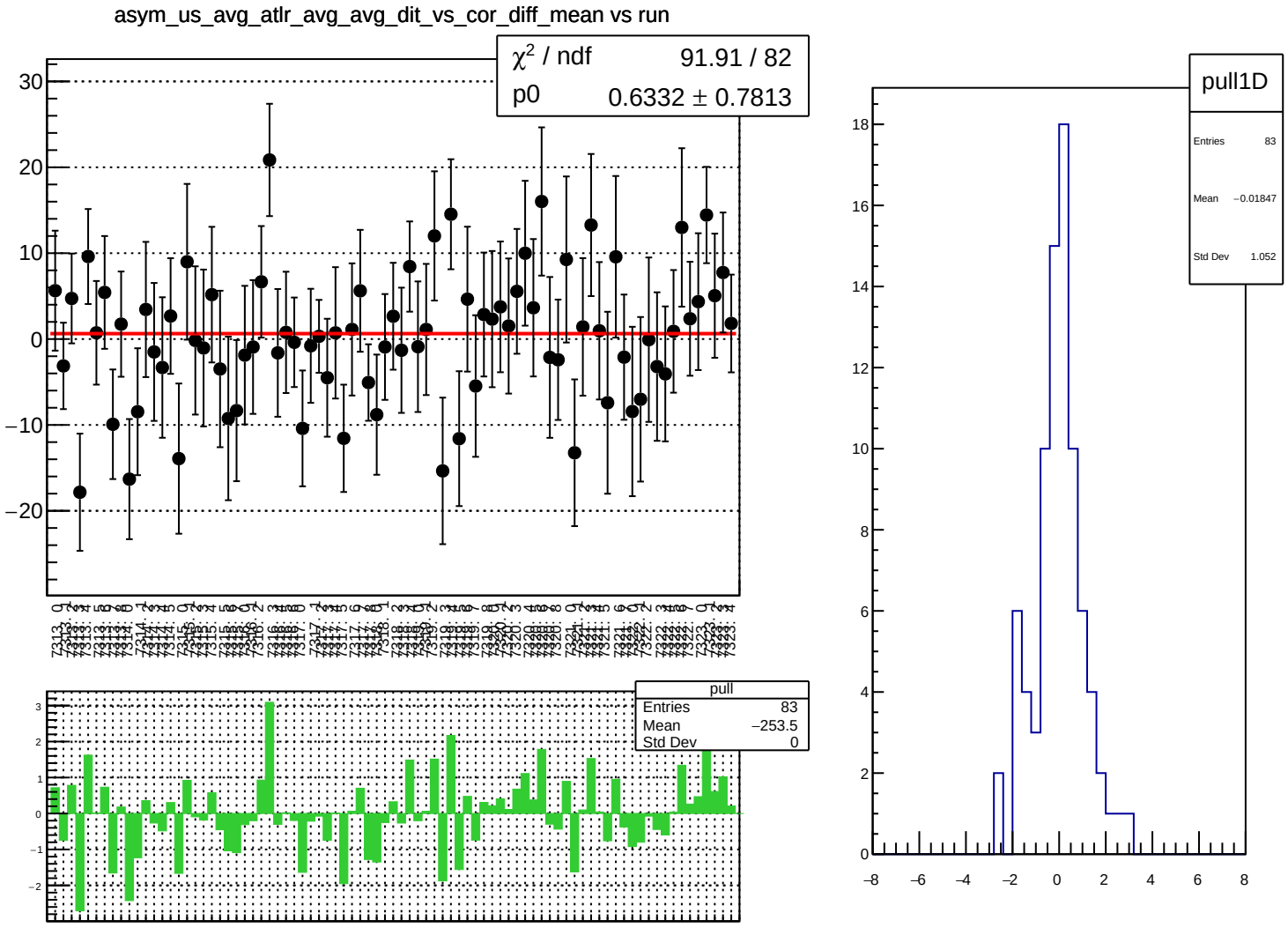

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 89.24 / 82
p0 −8347 ± 9770
300
200
100
0
−100
−200
−300
−400
pull
Entries 83
Mean 1657
Std Dev 0
2
1
0
−1
−2
−3

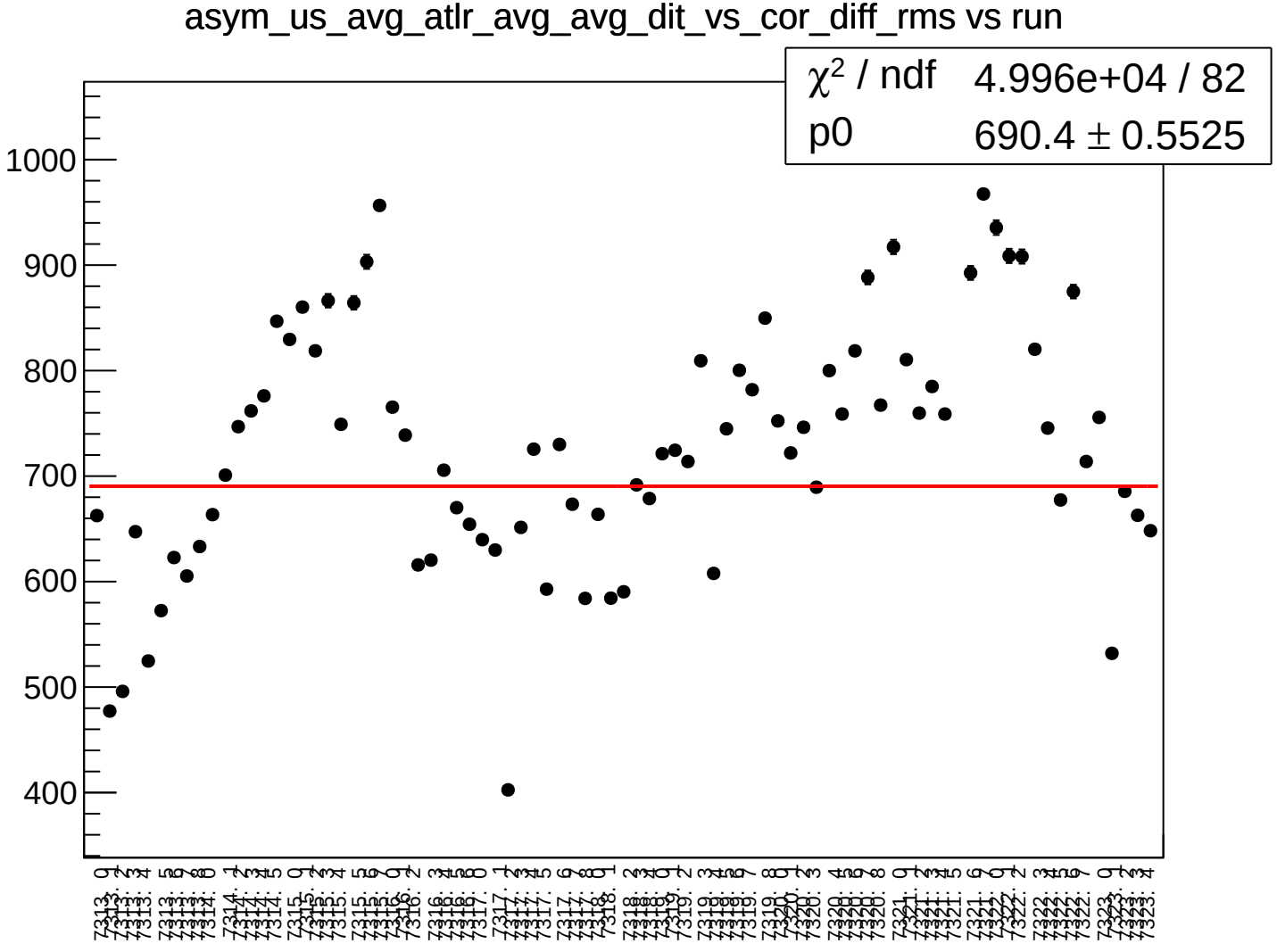

pull1D
Entries 83
Mean −0.002765
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

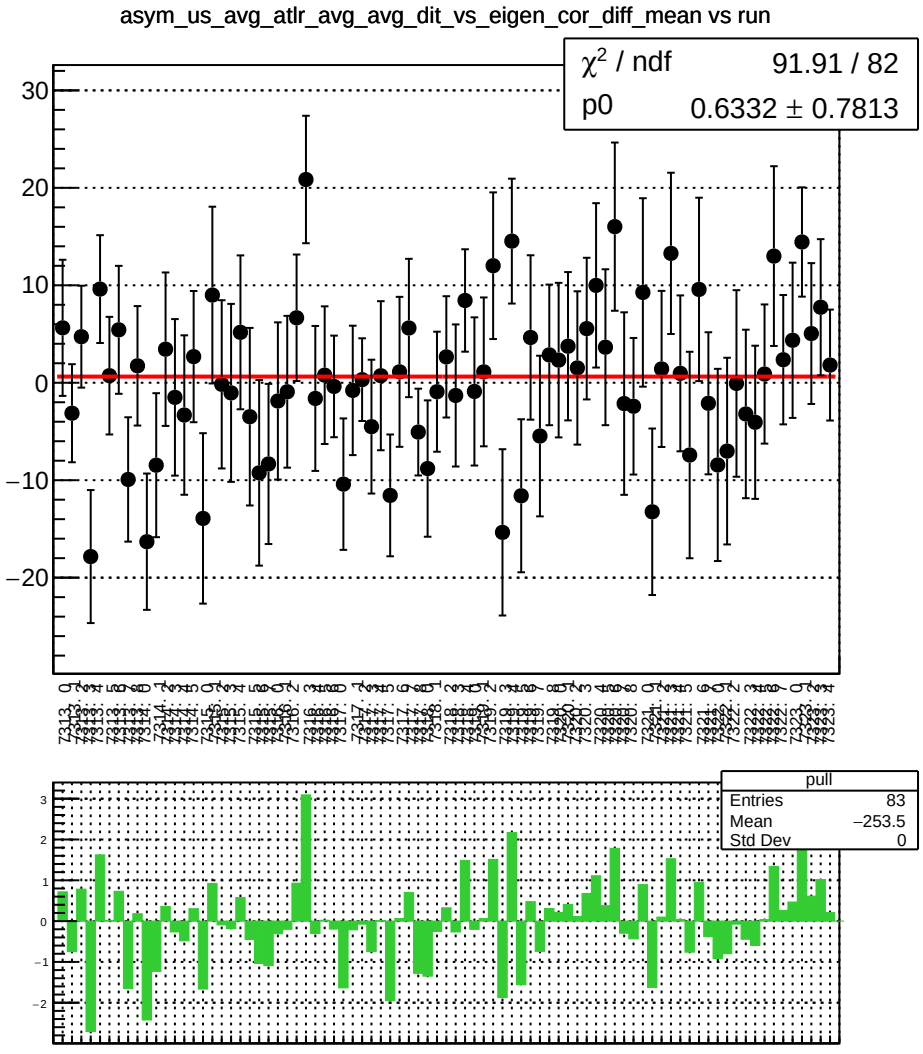

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.565e+04 / 82
p0 8727 ± 6.909
11000
10000
9000
8000
7000
6000

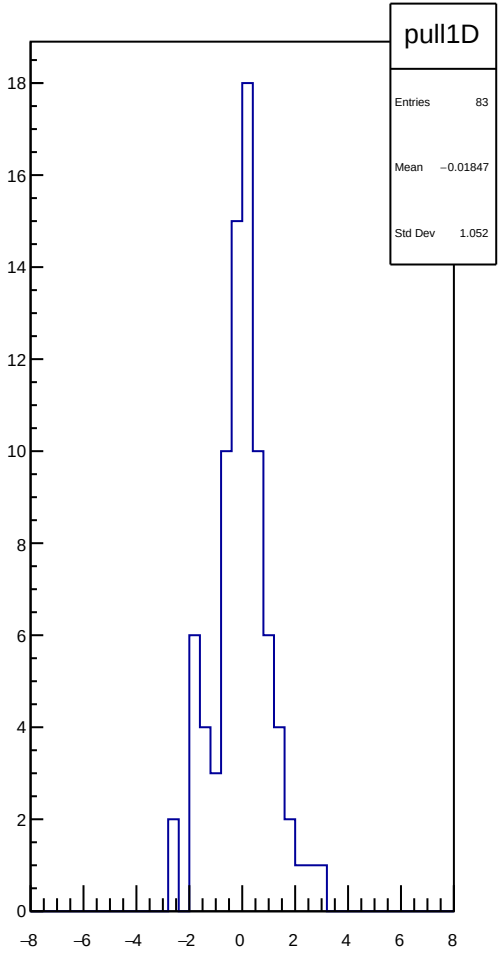

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.38 / 82
p0 2.585e−13 ± 4.389e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean 147.4
Std Dev 0
pull1D
Entries 83
Mean −0.005037
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

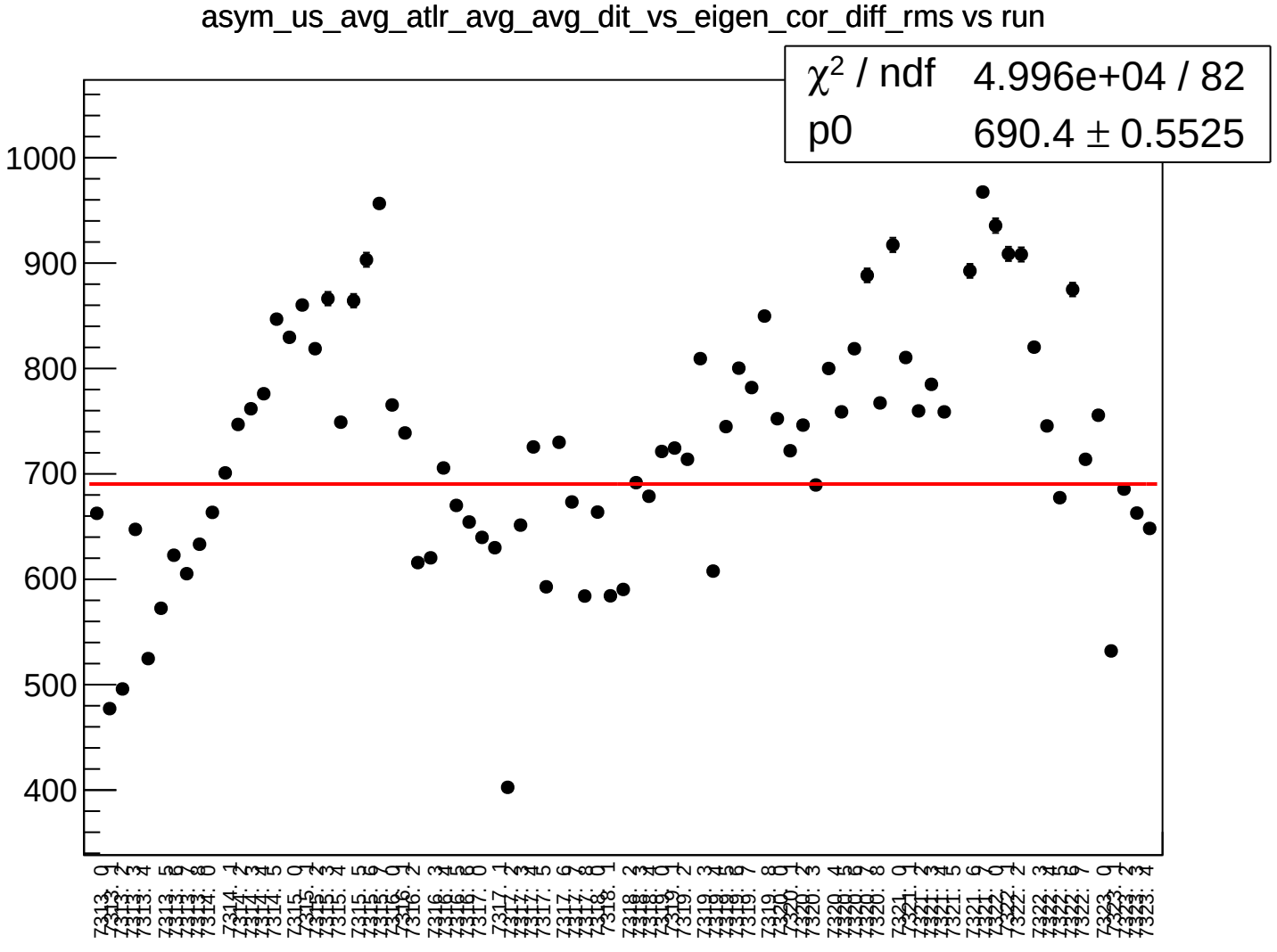

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.233e+06 / 82
p0 1.908e−10 ± 3.104e−13
1.2
1
0.8
0.6
0.4
0.2
0

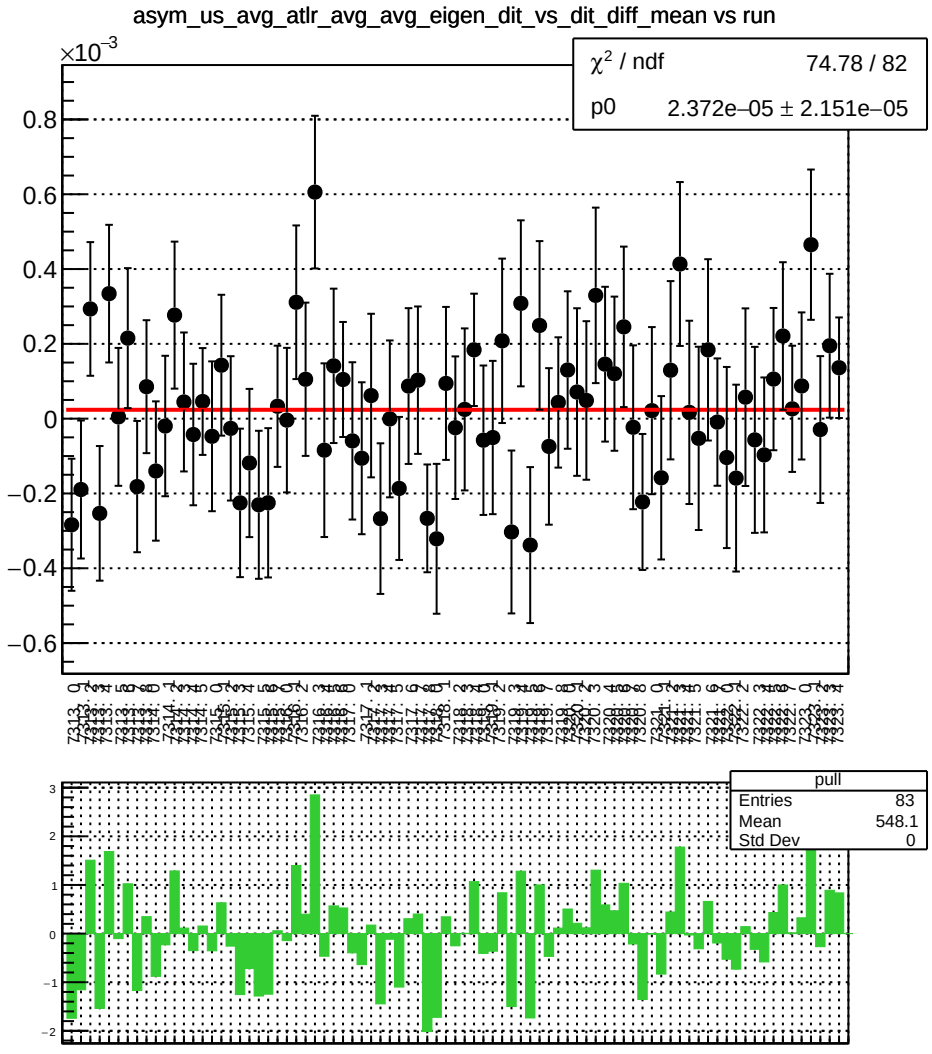

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.91 / 82
p0 0.6332 ± 0.7813
pull
Entries 83
Mean −253.5
Std Dev 0
pull1D
Entries 83
Mean −0.01847
Std Dev 1.052

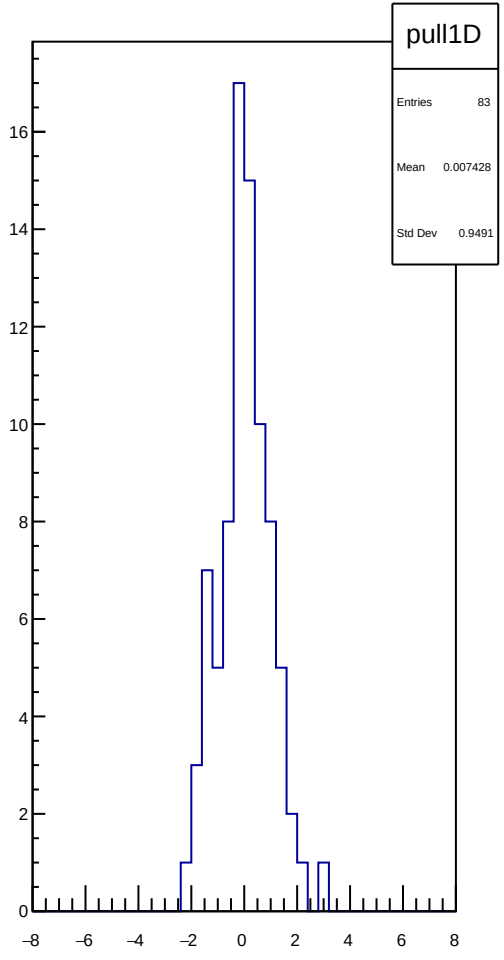

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.996e+04 / 82
p0 690.4 ± 0.5525
1000
900
800
700
600
500
400

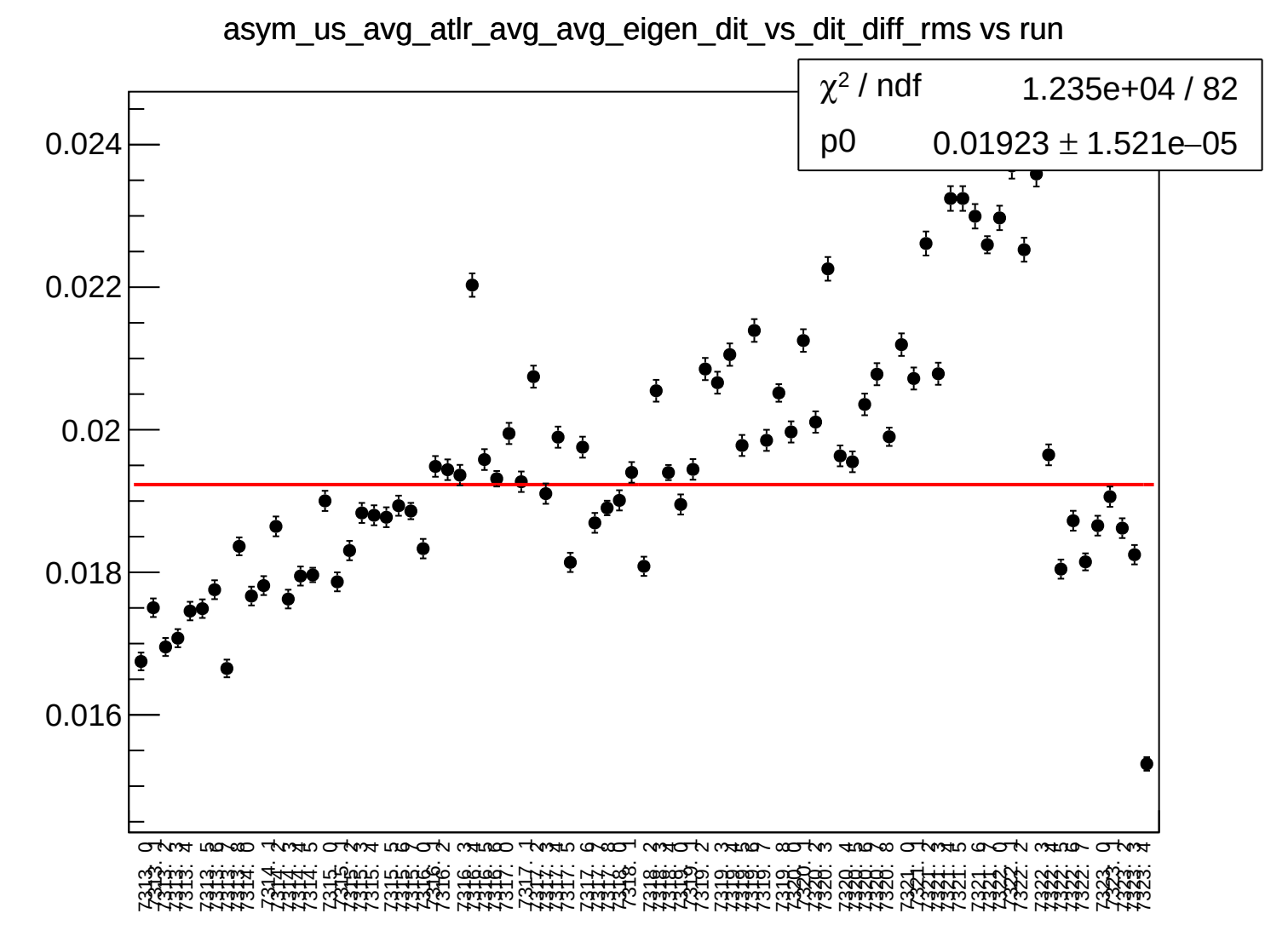

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.91 / 82
p0 0.6332 ± 0.7813
pull
Entries 83
Mean −253.5
Std Dev 0

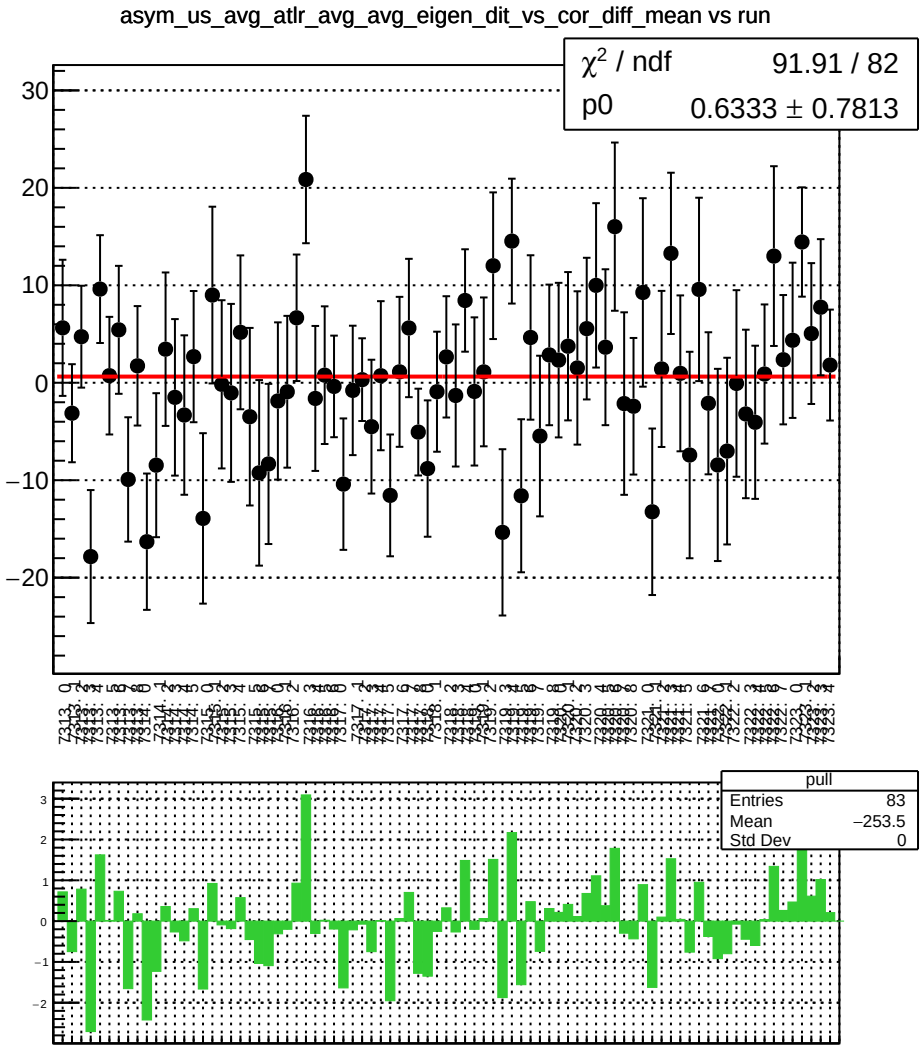

pull1D
Entries 83
Mean −0.01847
Std Dev 1.052

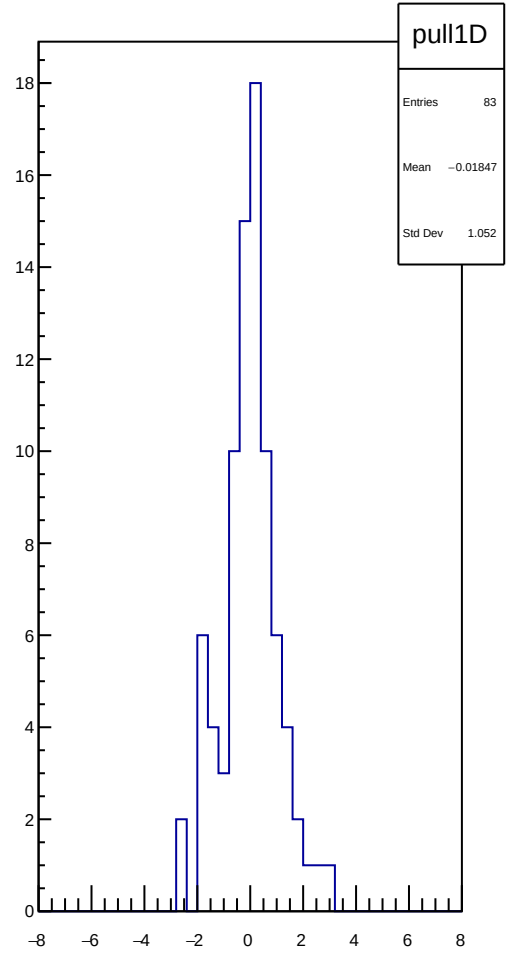

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.996e+04 / 82
p0 690.4 ± 0.5525
1000
900
800
700
600
500
400

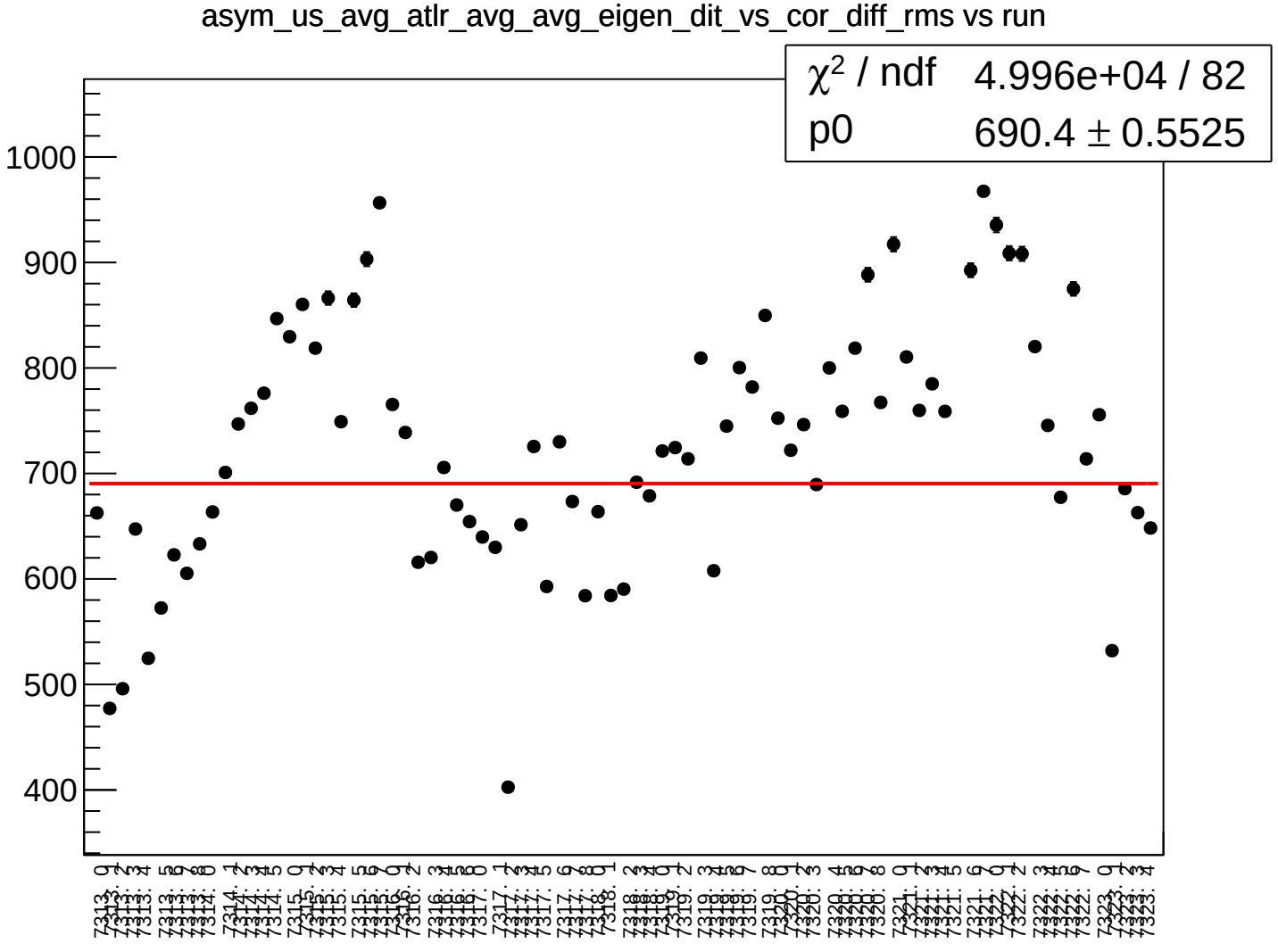

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.78 / 82
p0 2.372e−05 ± 2.151e−05
pull
Entries 83
Mean 548.1
Std Dev 0

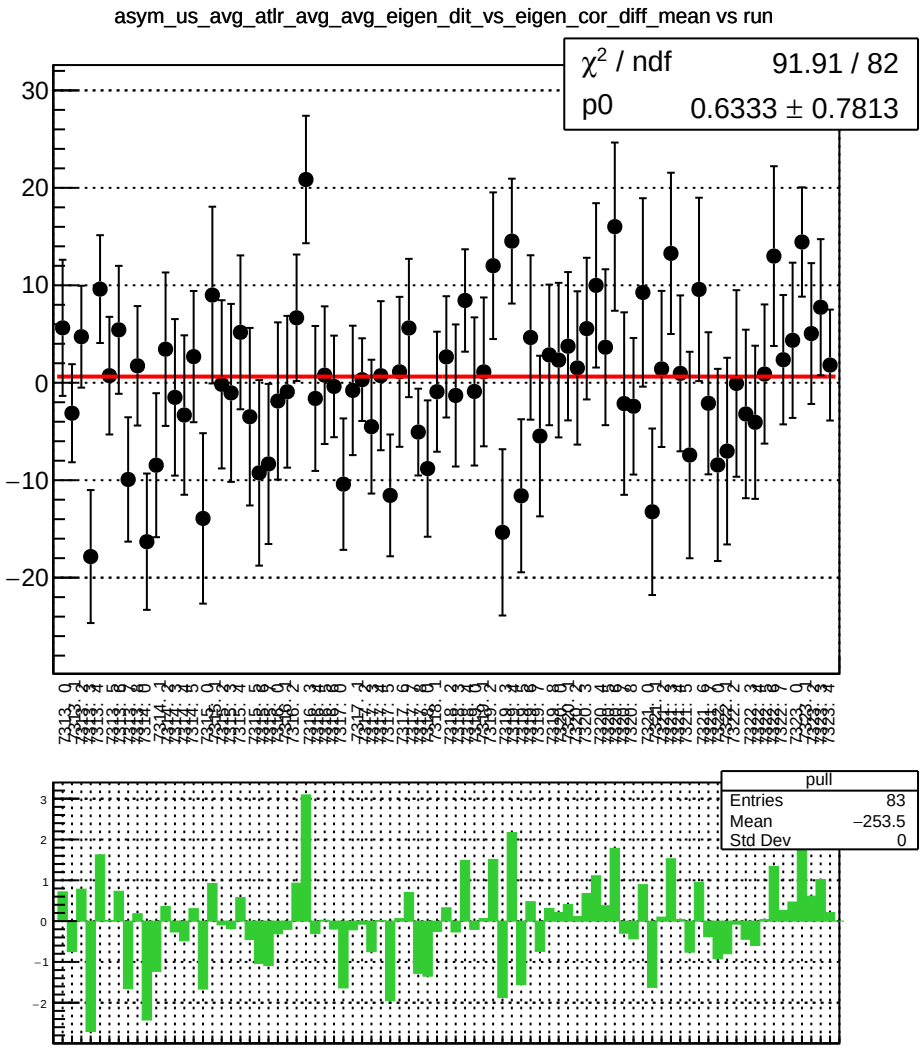

pull1D
Entries 83
Mean 0.007428
Std Dev 0.9491

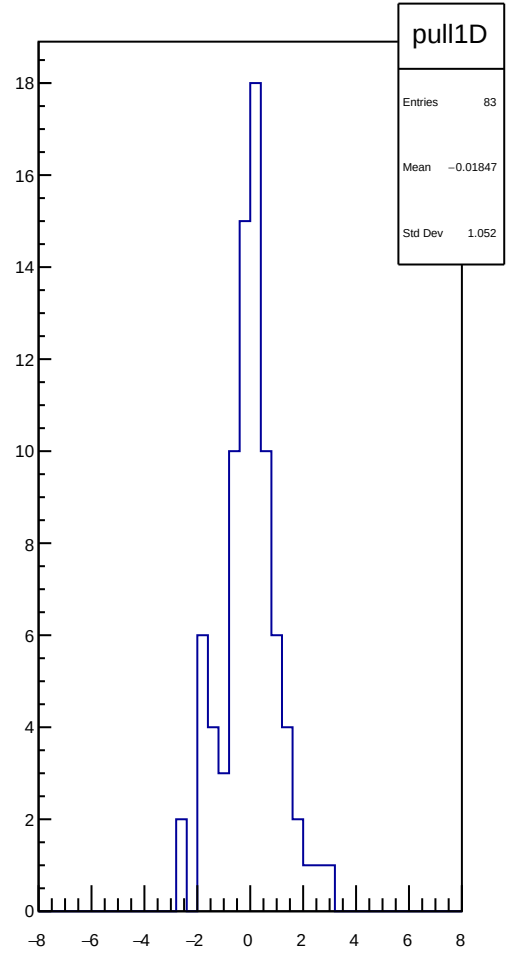

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.235e+04 / 82
p0 0.01923 ± 1.521e−05
0.024
0.022
0.02
0.018
0.016

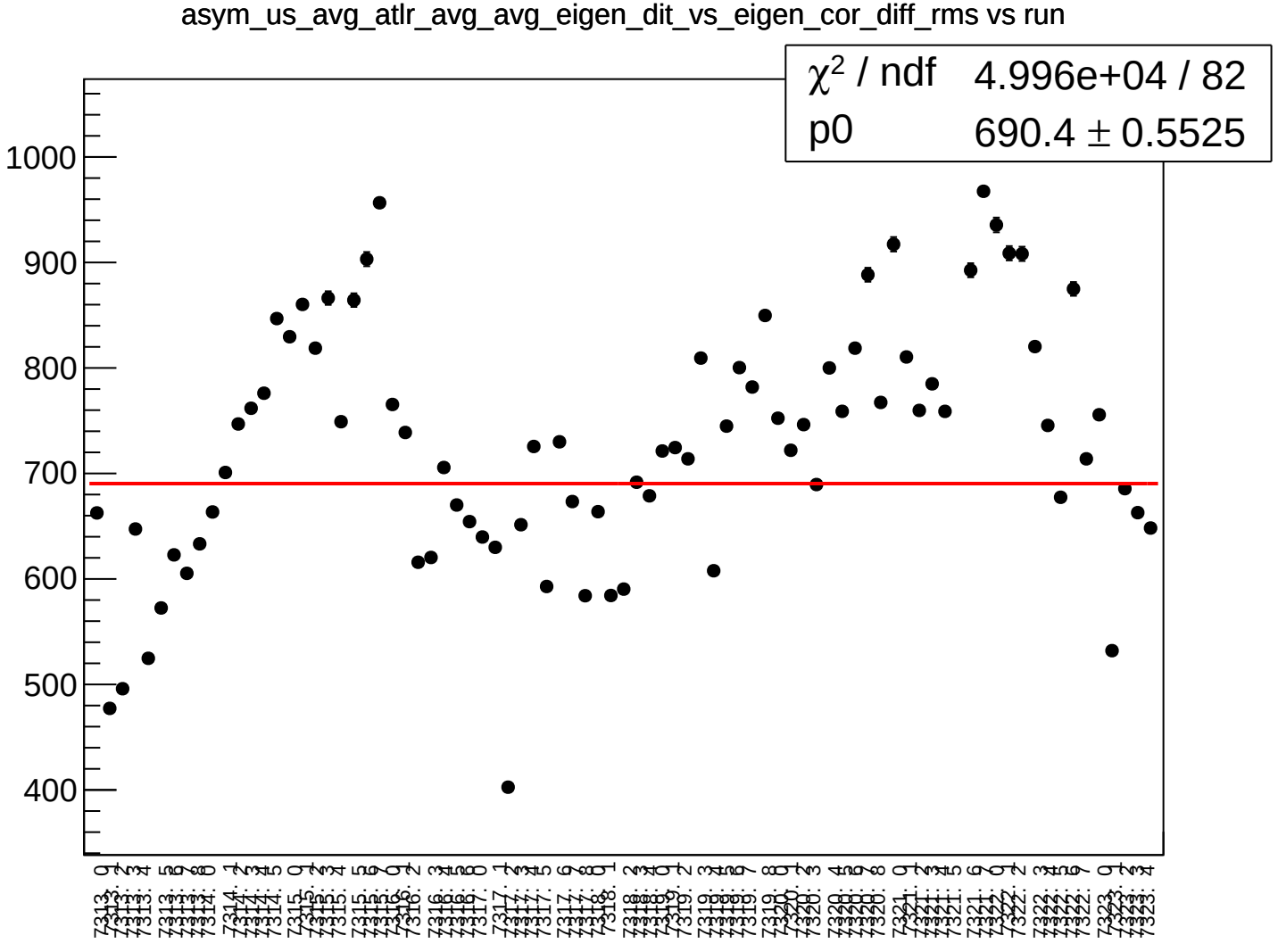

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.91 / 82
p0 0.6333 ± 0.7813
pull
Entries 83
Mean −253.5
Std Dev 0

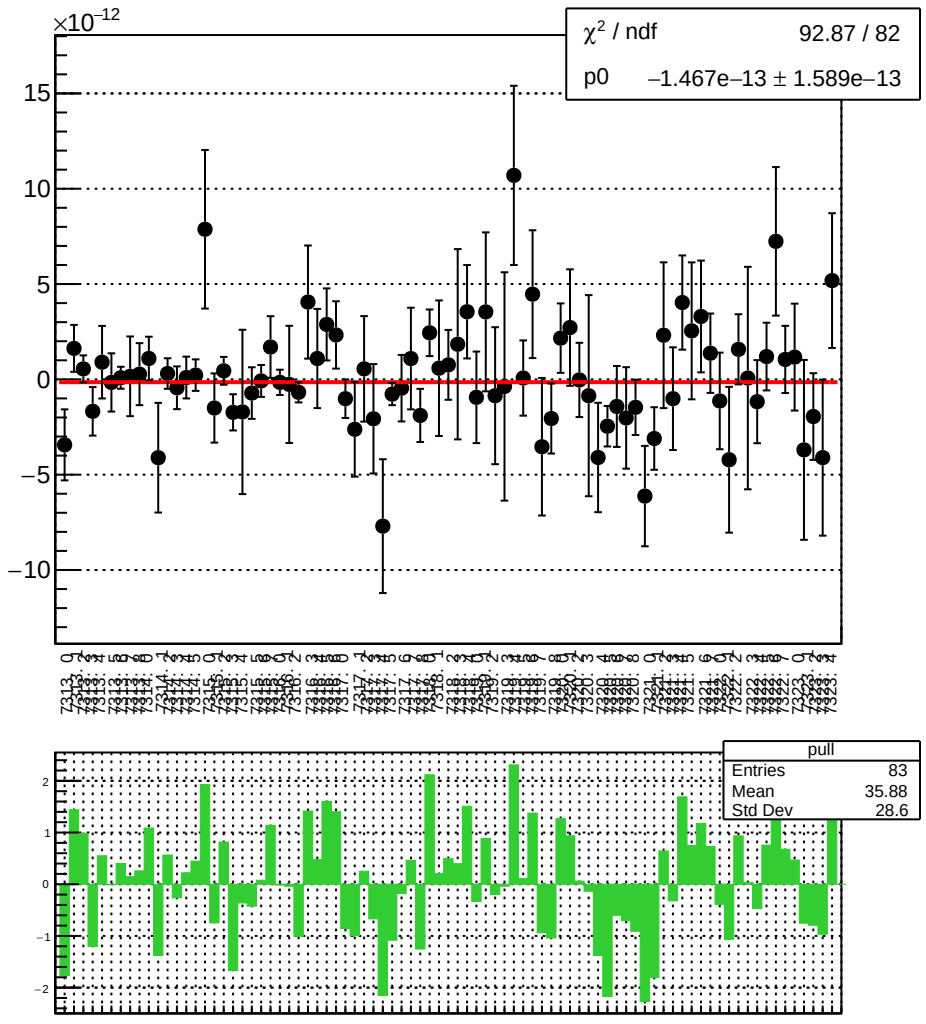

pull1D
Entries 83
Mean −0.01847
Std Dev 1.052

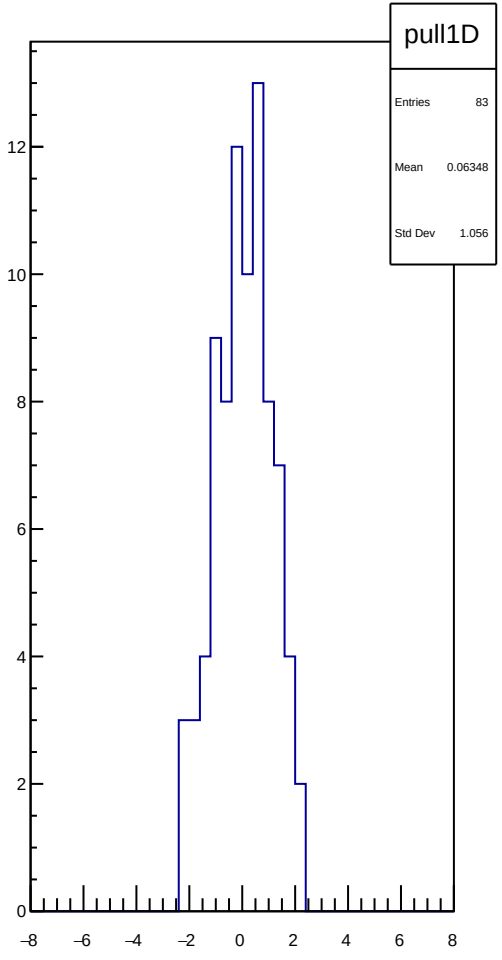

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.996e+04 / 82
p0 690.4 ± 0.5525
1000
900
800
700
600
500
400

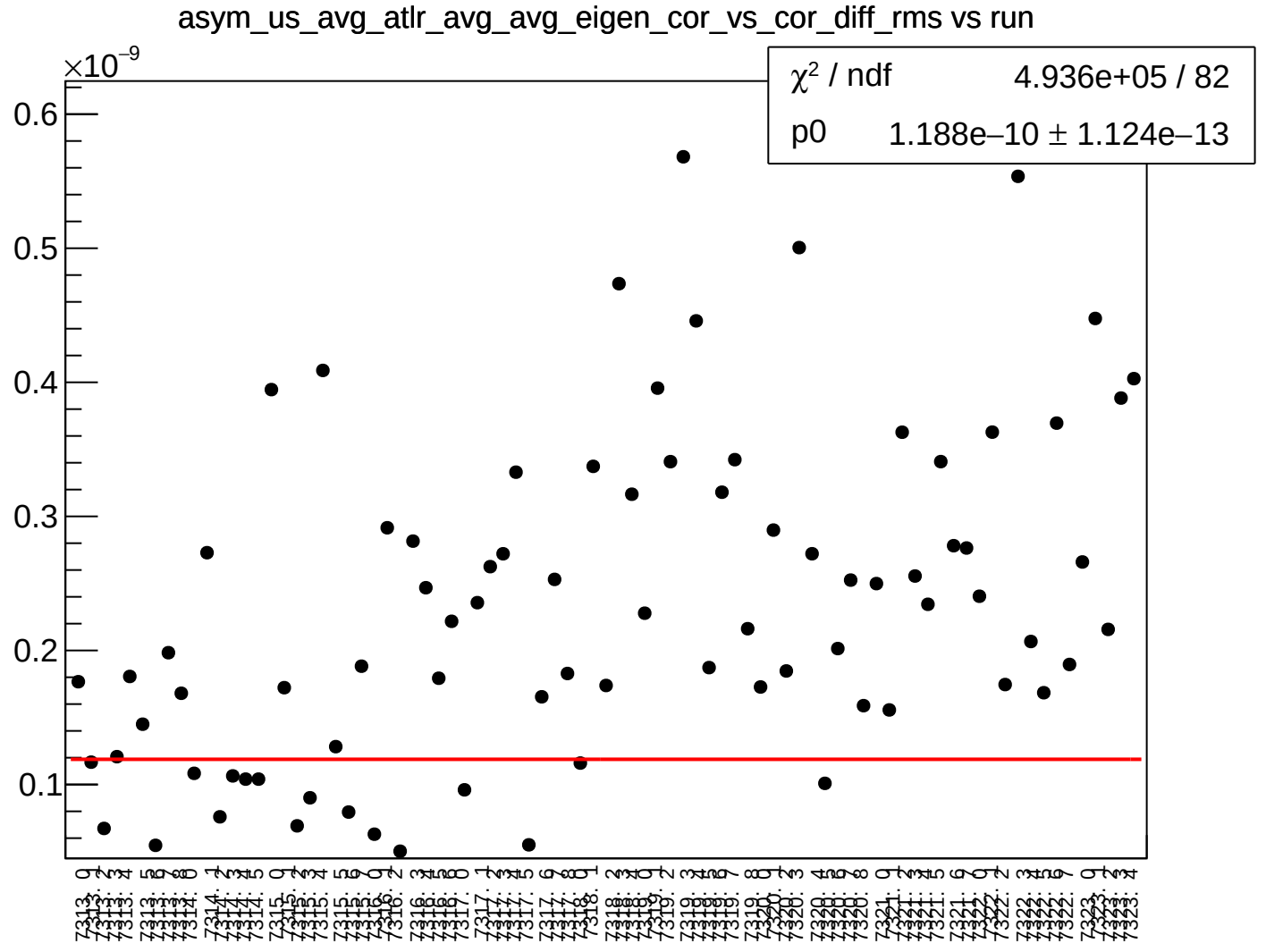

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.91 / 82
p0 0.6333 ± 0.7813
pull
Entries 83
Mean −253.5
Std Dev 0

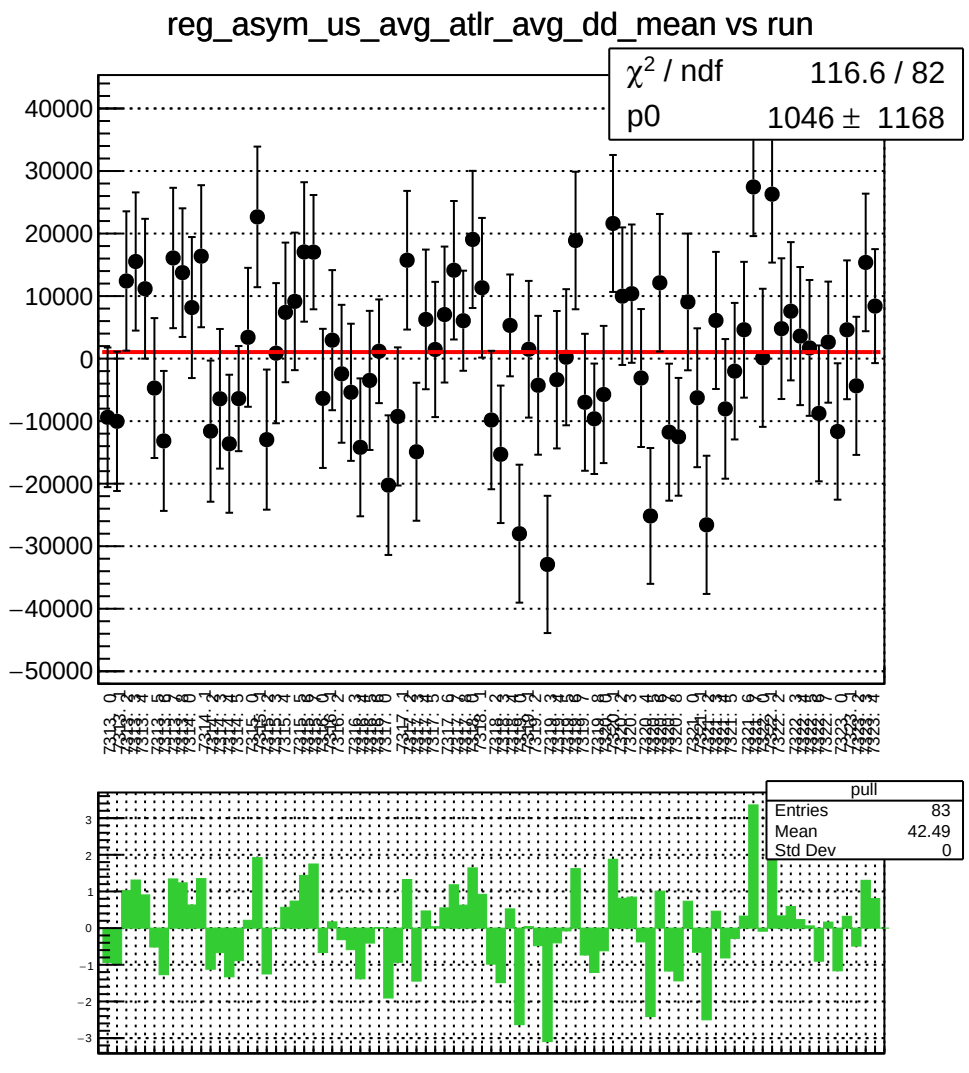

pull1D
Entries 83
Mean −0.01847
Std Dev 1.052

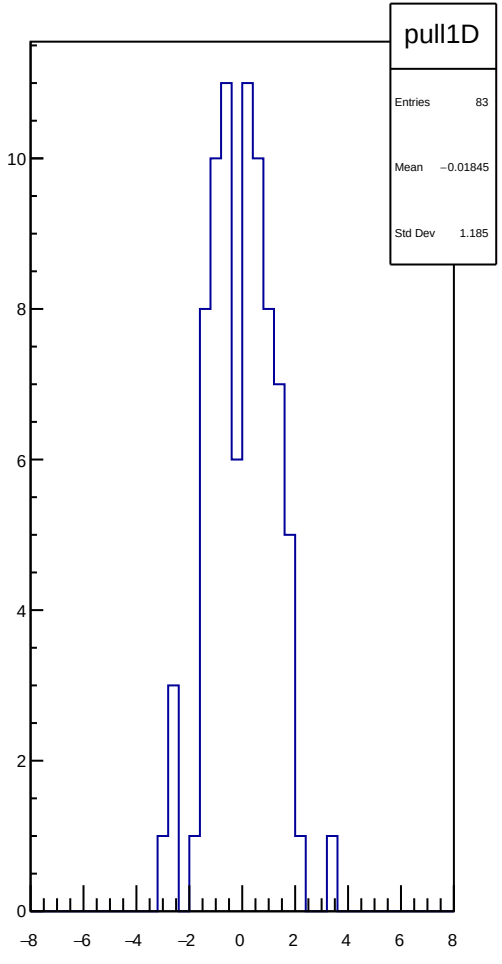

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.996e+04 / 82
p0 690.4 ± 0.5525
1000
900
800
700
600
500
400

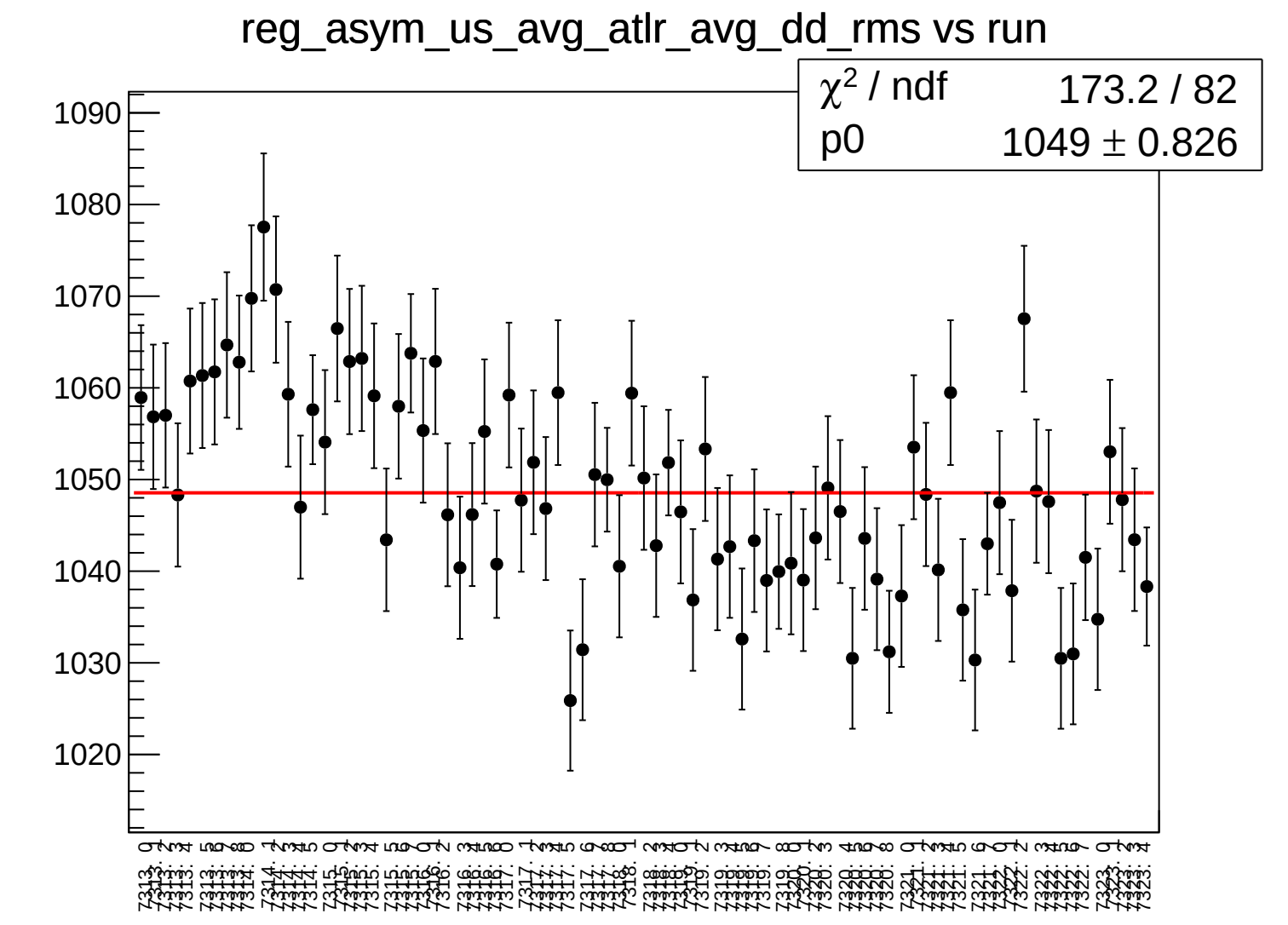

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.87 / 82
p0 −1.467e−13 ± 1.589e−13
pull
Entries 83
Mean 35.88
Std Dev 28.6

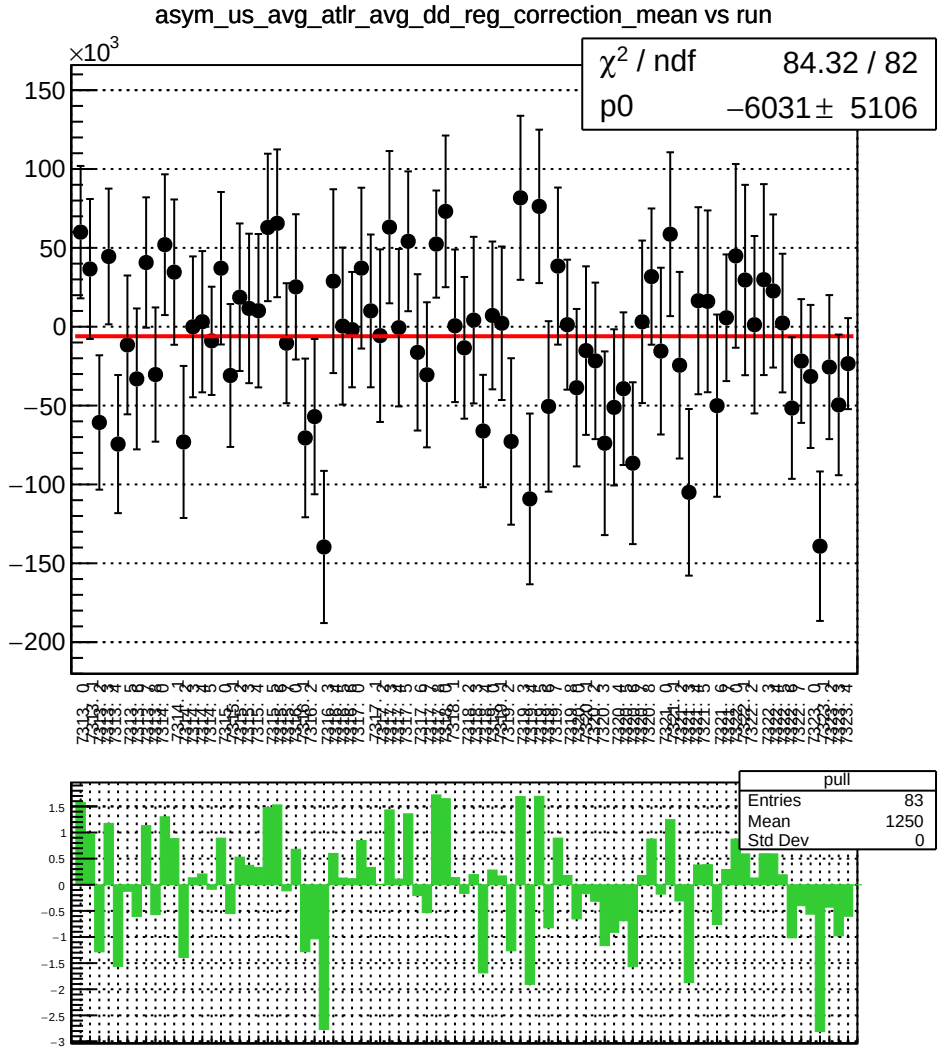

pull1D
Entries 83
Mean 0.06348
Std Dev 1.056

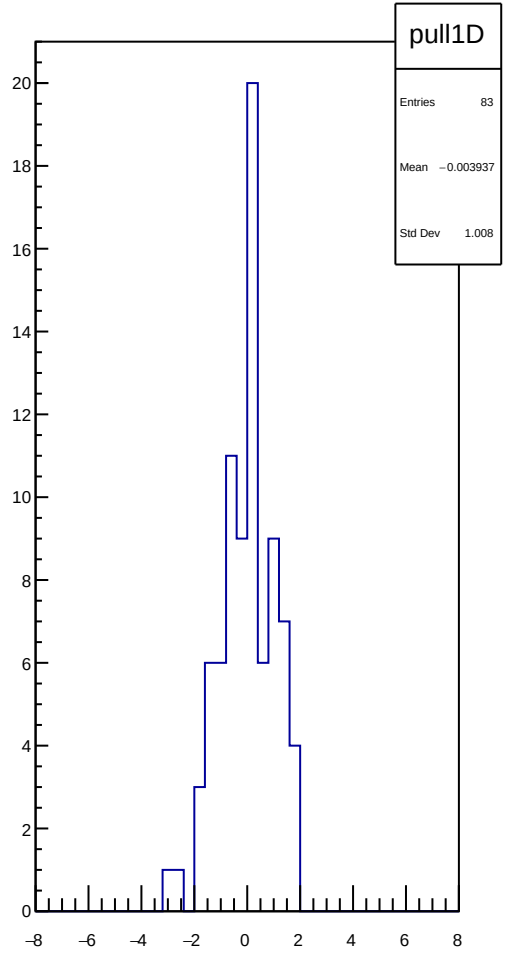

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.936e+05 / 82
p0 1.188e−10 ± 1.124e−13
0.6
0.5
0.4
0.3
0.2
0.1

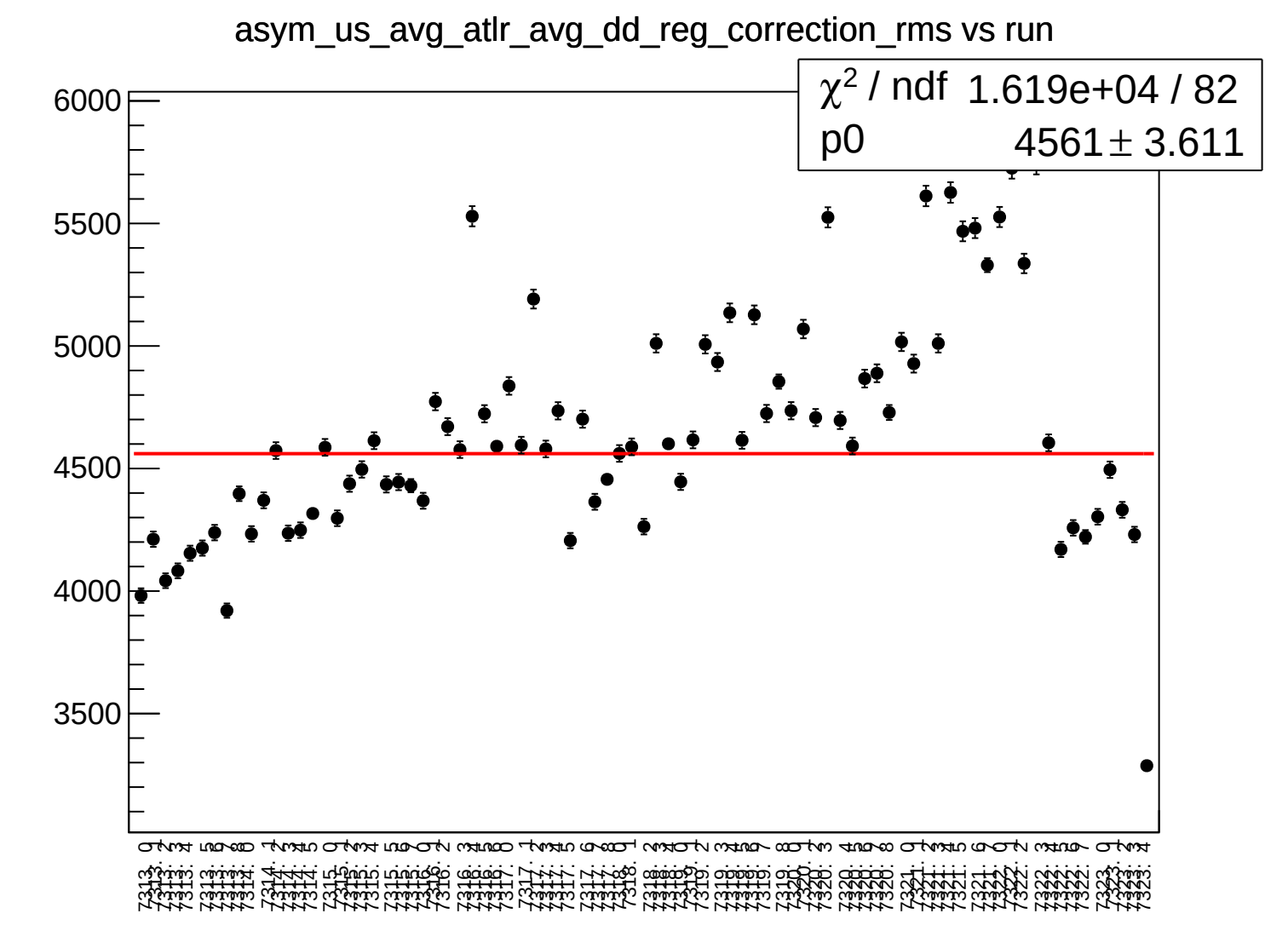

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 116.6 / 82
p0 1046 ± 1168
pull
Entries 83
Mean 42.49
Std Dev 0

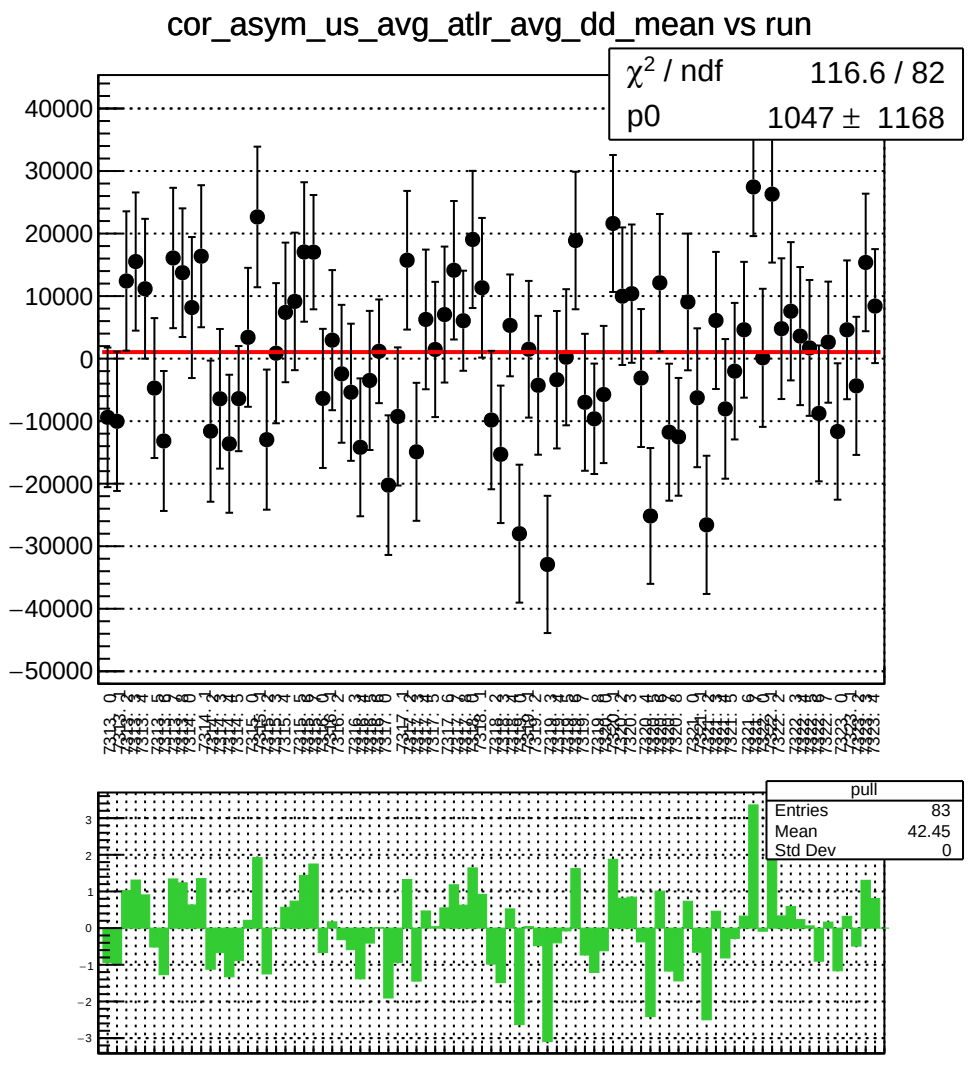

pull1D
Entries 83
Mean −0.01845
Std Dev 1.185

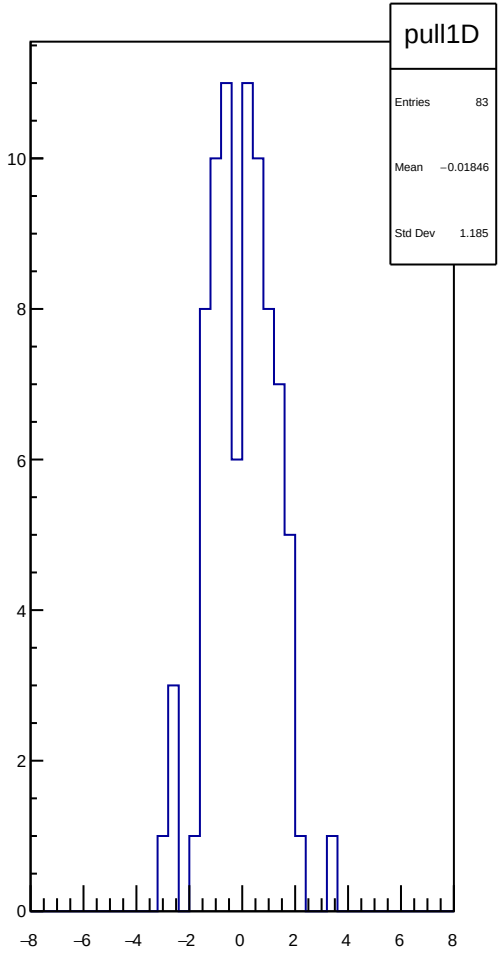

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 173.2 / 82
p0 1049 ± 0.826
1090
1080
1070
1060
1050
1040
1030
1020

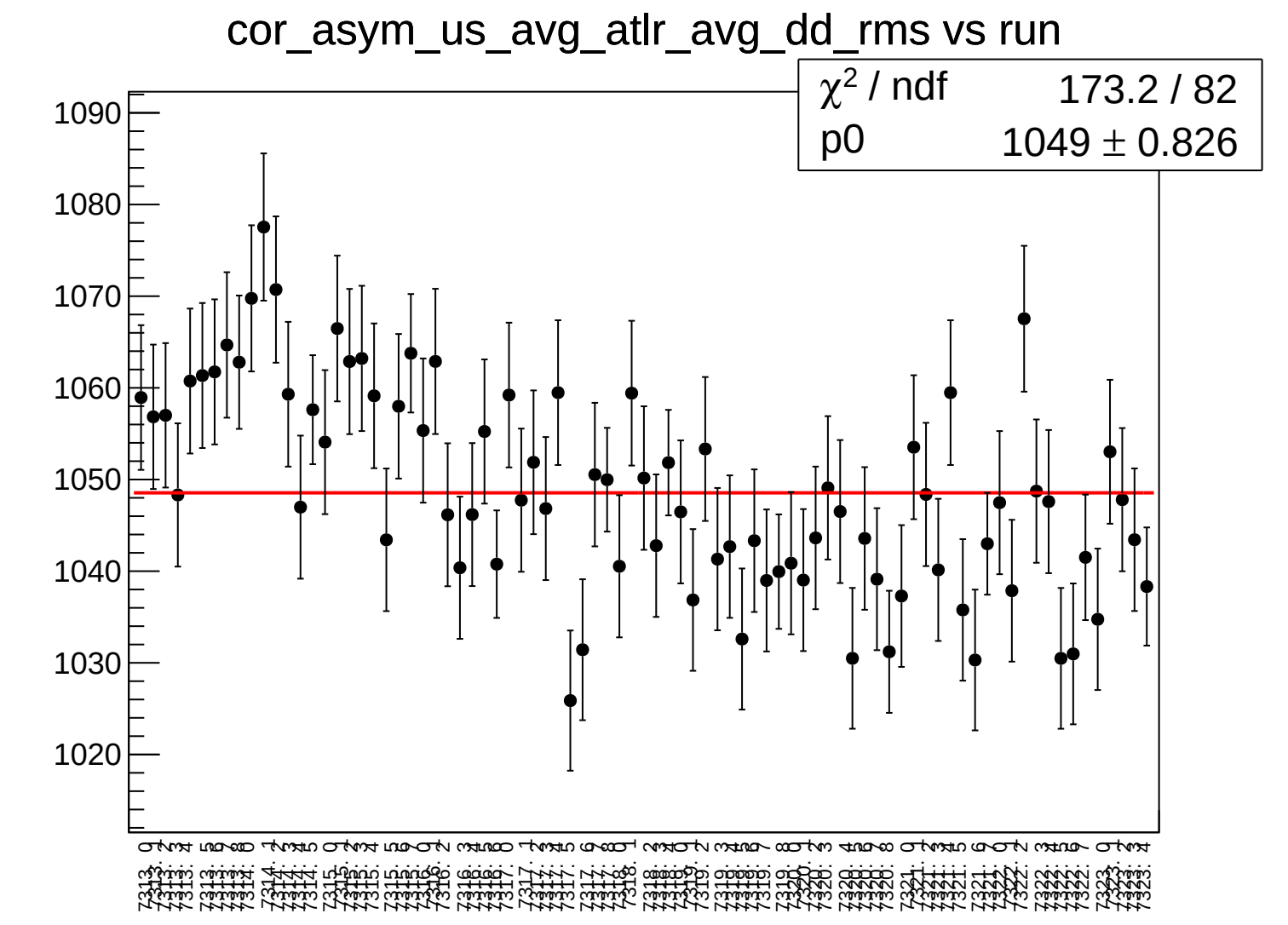

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.32 / 82
p0 −6031 ± 5106
pull
Entries 83
Mean 1250
Std Dev 0

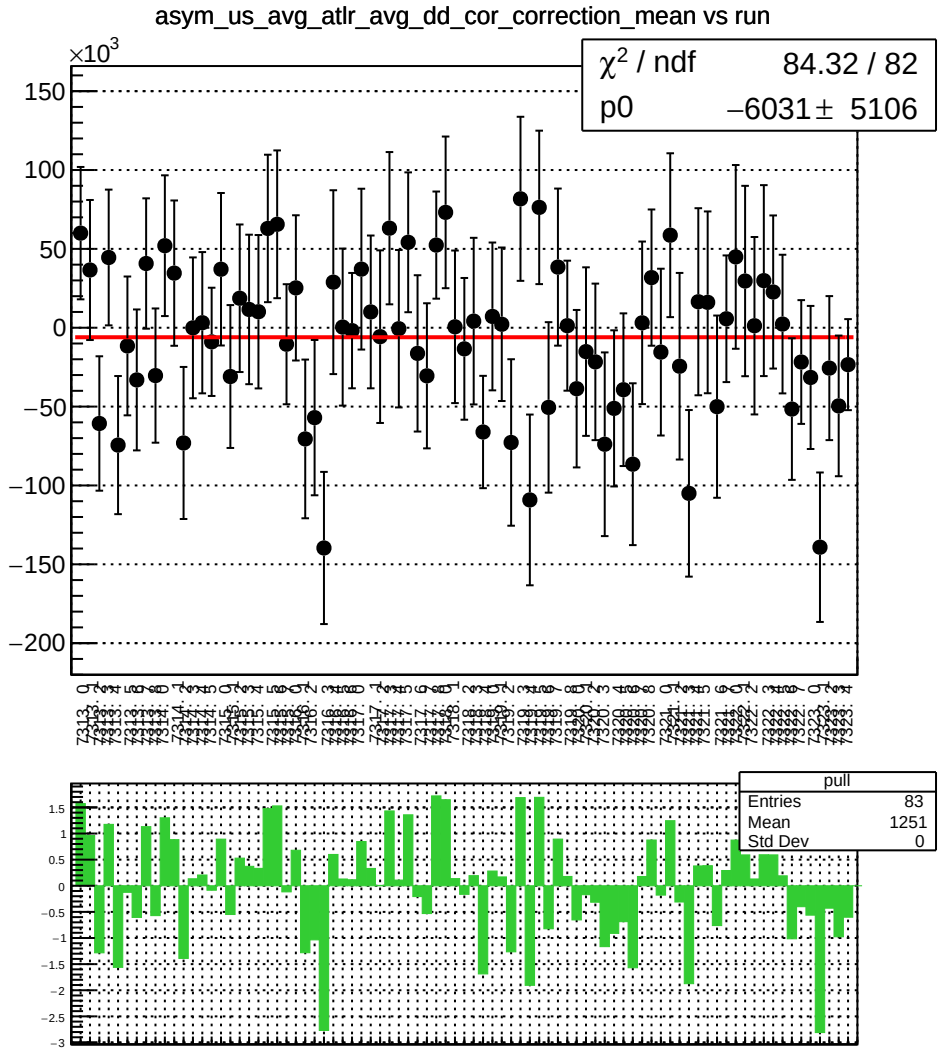

pull1D
Entries 83
Mean −0.003937
Std Dev 1.008

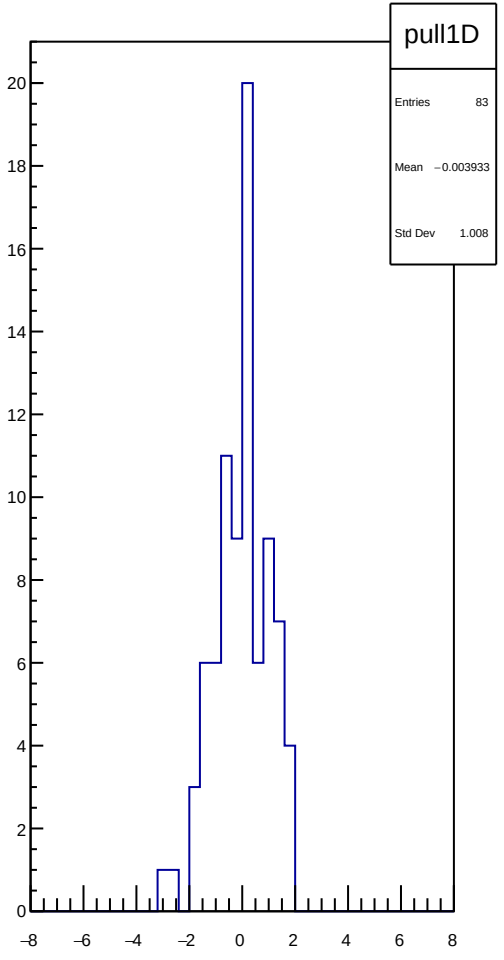

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.619e+04 / 82
p0 4561 ± 3.611
6000
5500
5000
4500
4000
3500

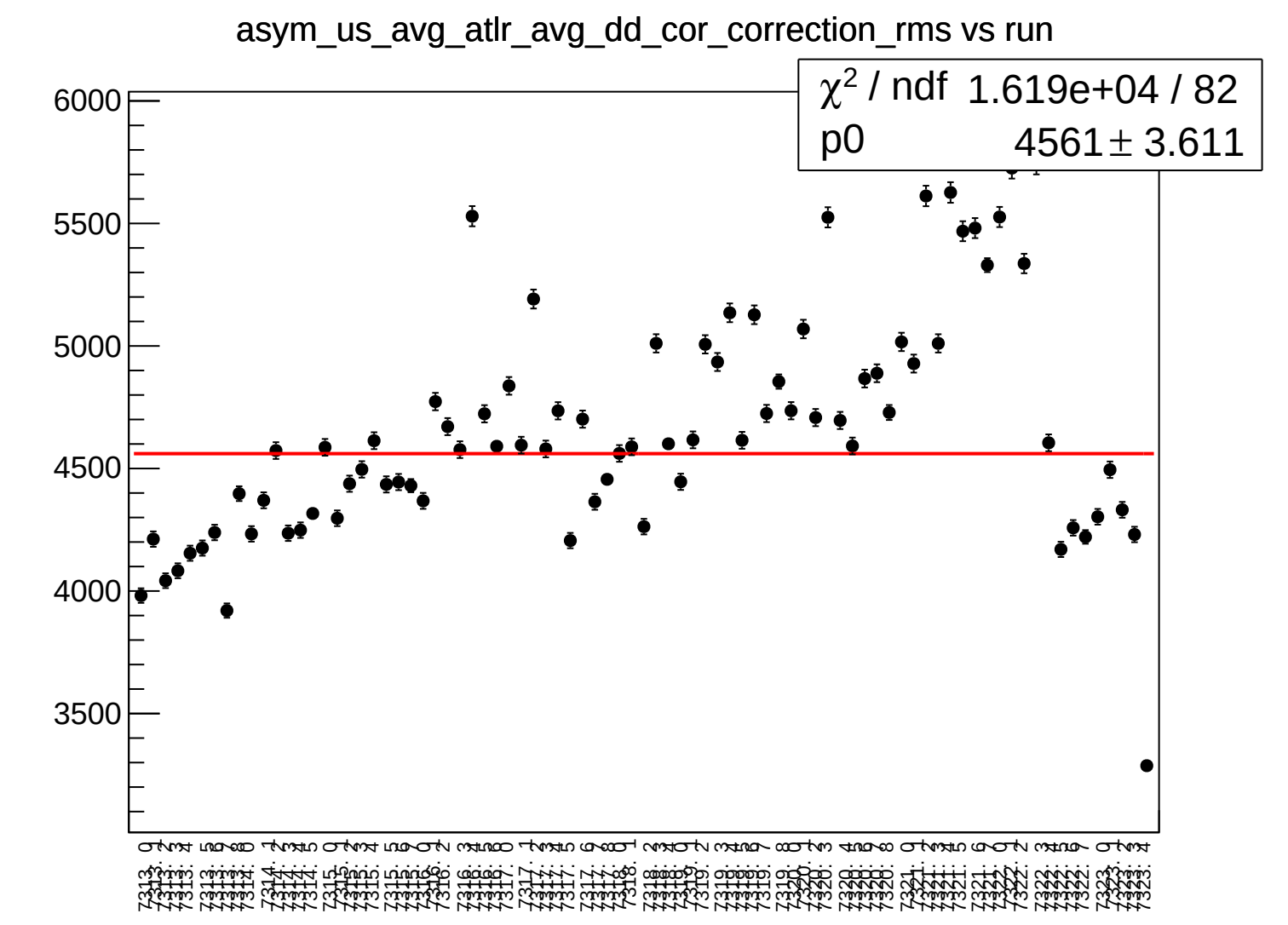

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 116.6 / 82
p0 1047 ± 1168
pull
Entries 83
Mean 42.45
Std Dev 0

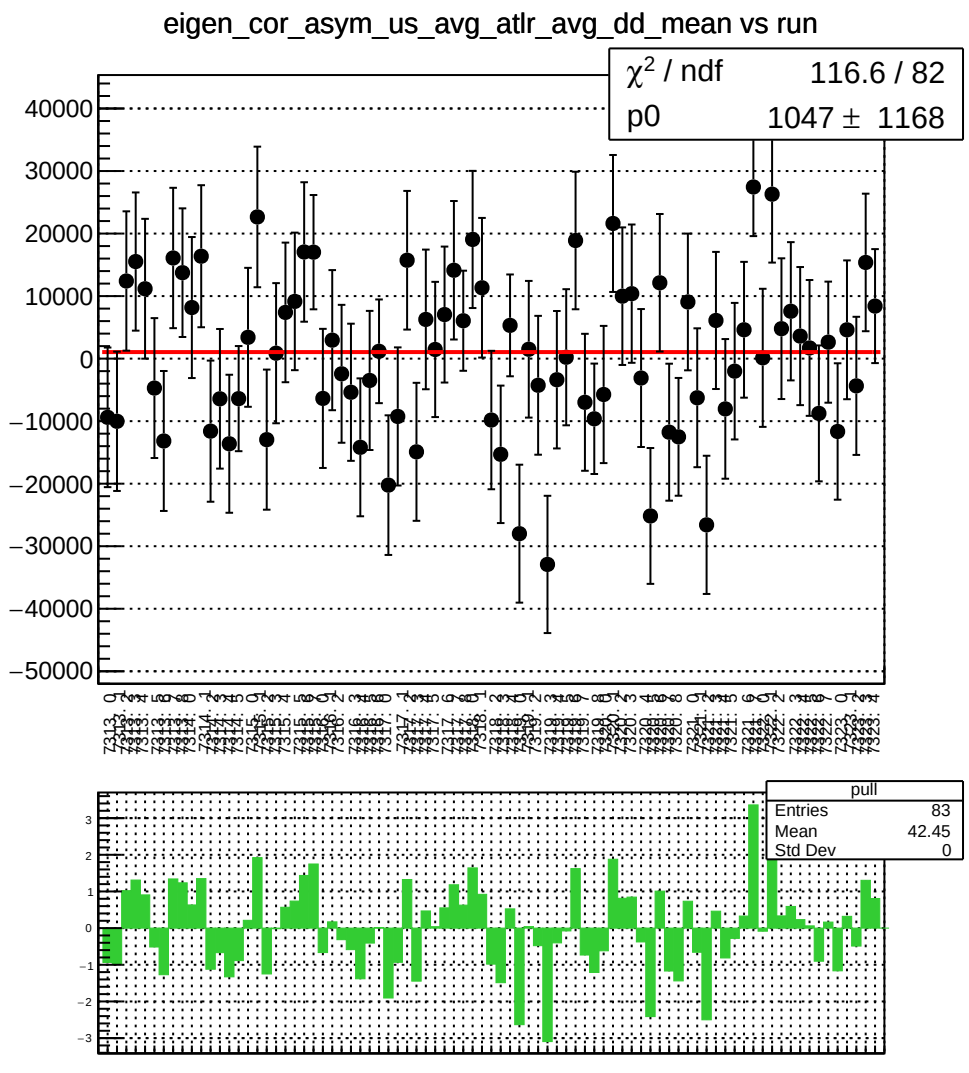

pull1D
Entries 83
Mean −0.01846
Std Dev 1.185

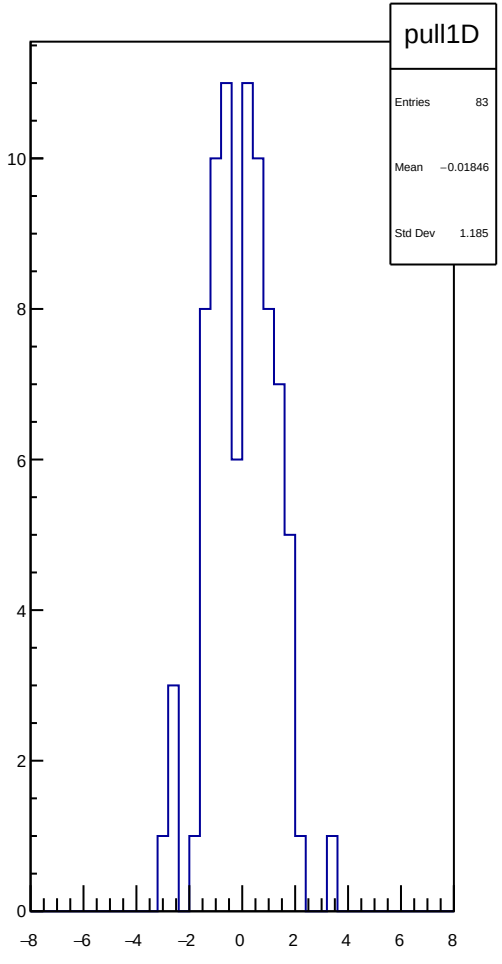

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 173.2 / 82
p0 1049 ± 0.826
1090
1080
1070
1060
1050
1040
1030
1020

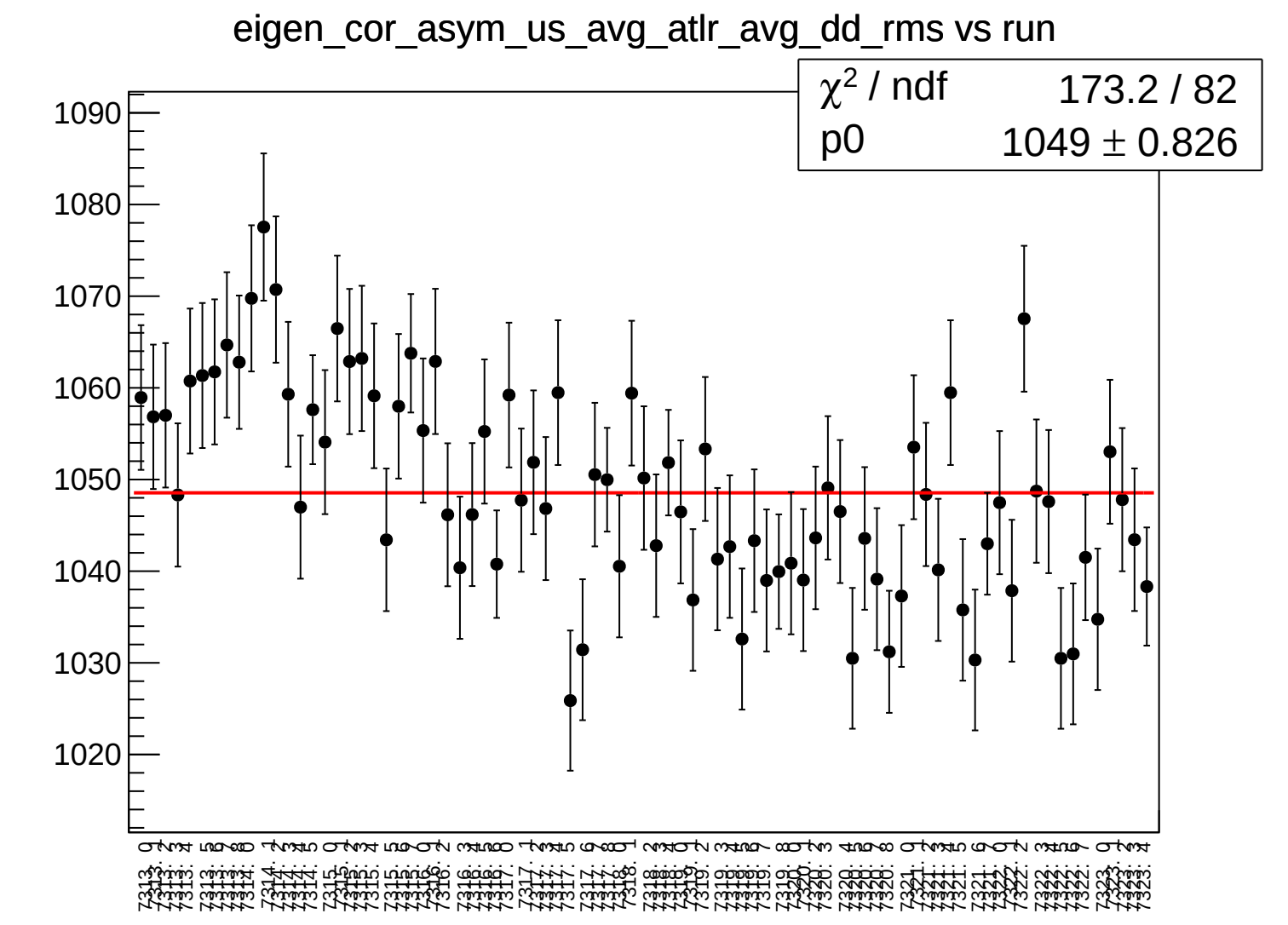

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.32 / 82
p0 −6031 ± 5106
pull
Entries 83
Mean 1251
Std Dev 0

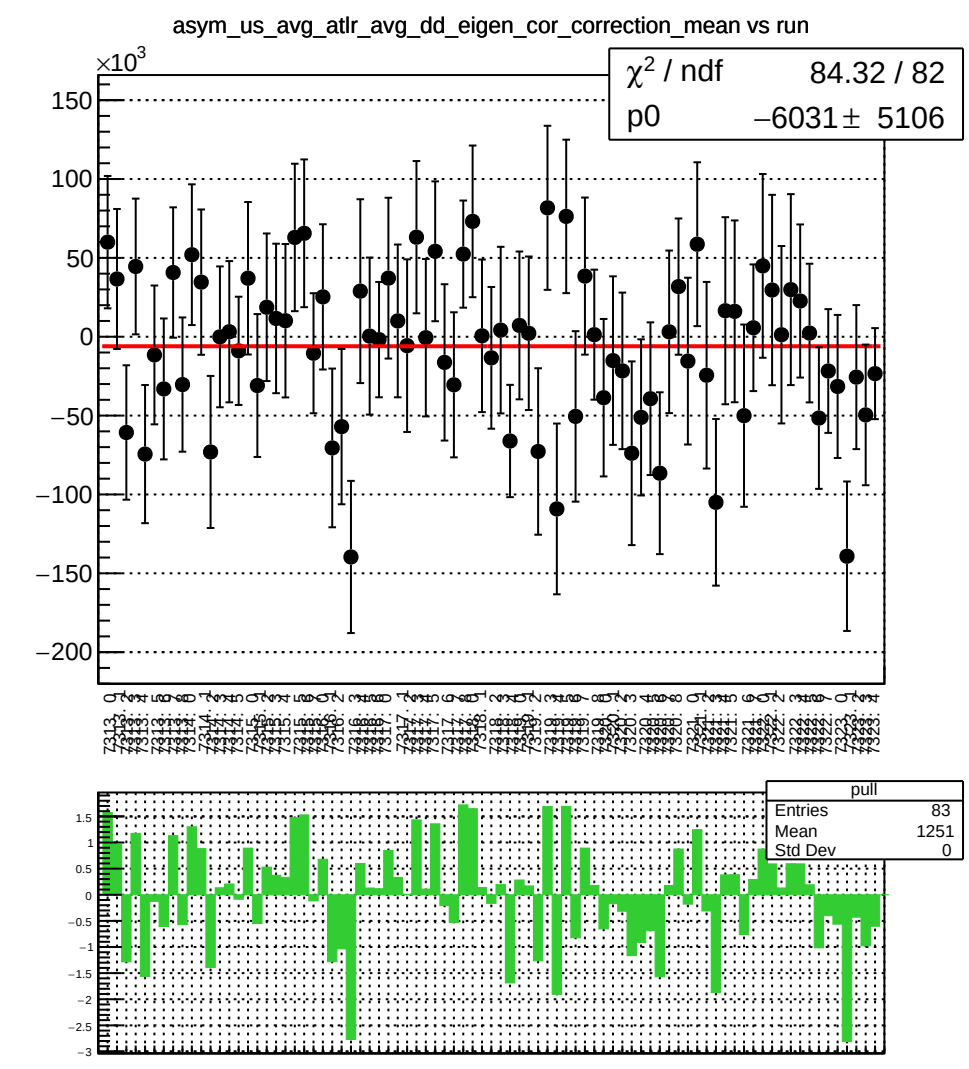

pull1D
Entries 83
Mean −0.003933
Std Dev 1.008

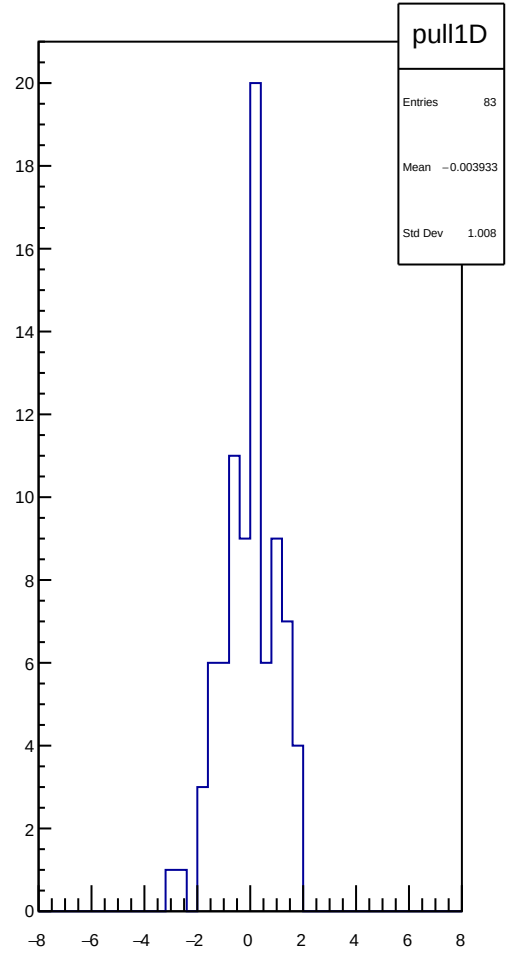

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.619e+04 / 82
p0 4561 ± 3.611
6000
5500
5000
4500
4000
3500

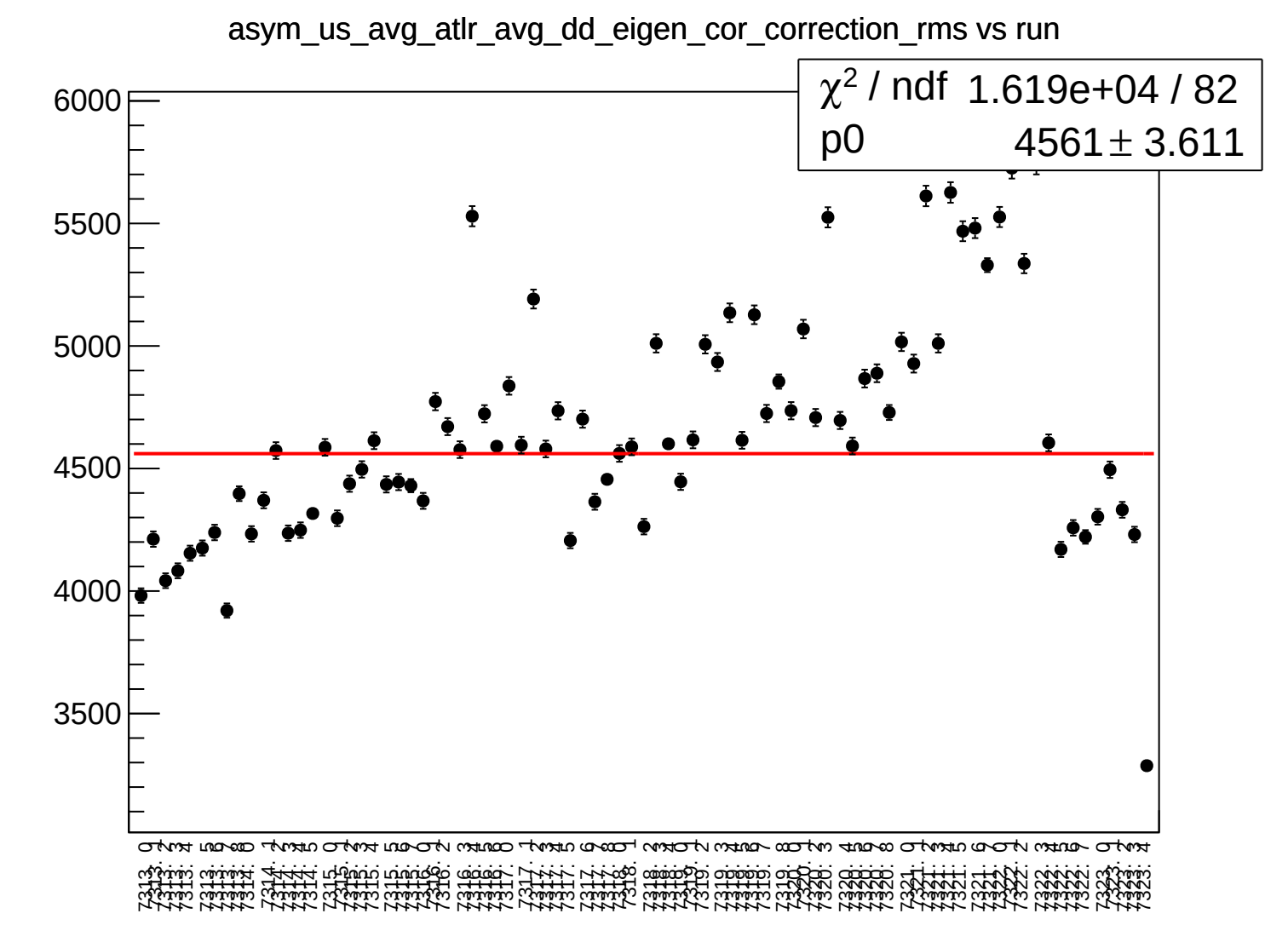

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 116.6 / 82
p0 1047 ± 1168
pull
Entries 83
Mean 42.45
Std Dev 0

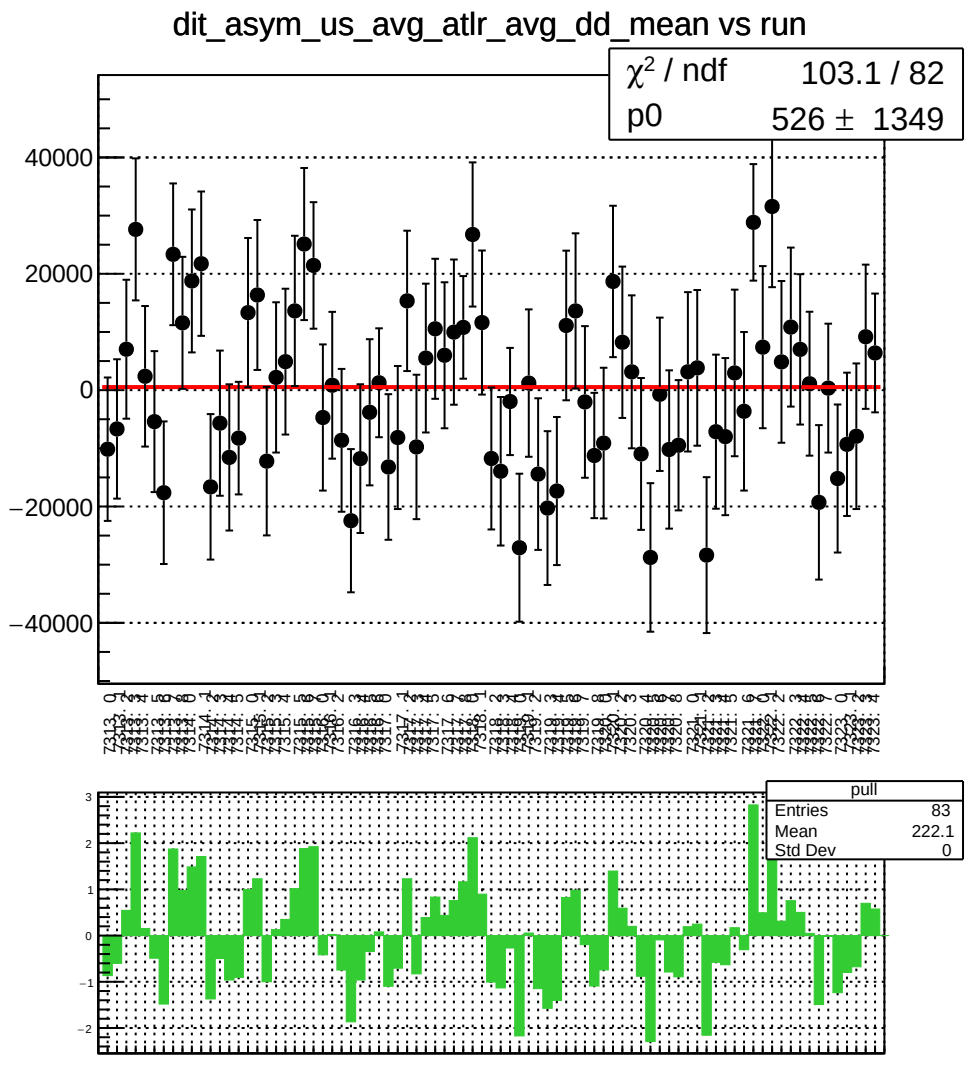

pull1D
Entries 83
Mean −0.01846
Std Dev 1.185

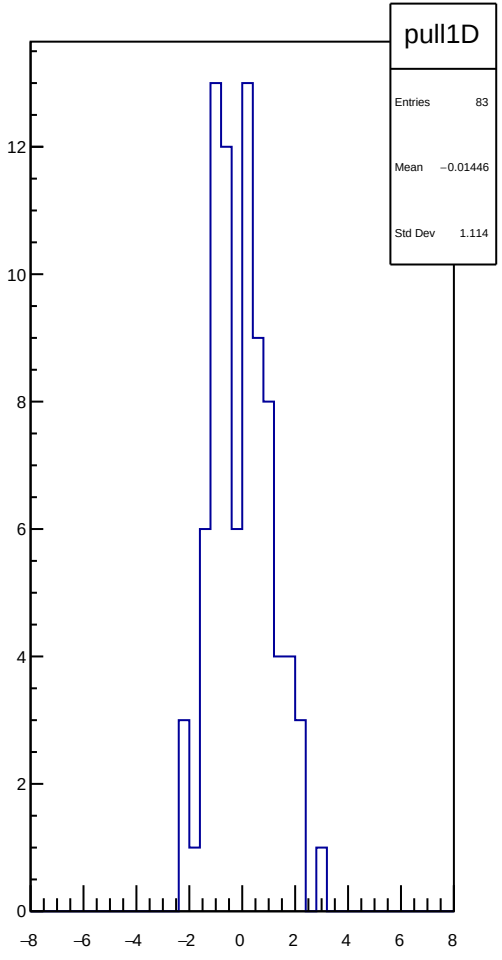

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 173.2 / 82
p0 1049 ± 0.826
1090
1080
1070
1060
1050
1040
1030
1020

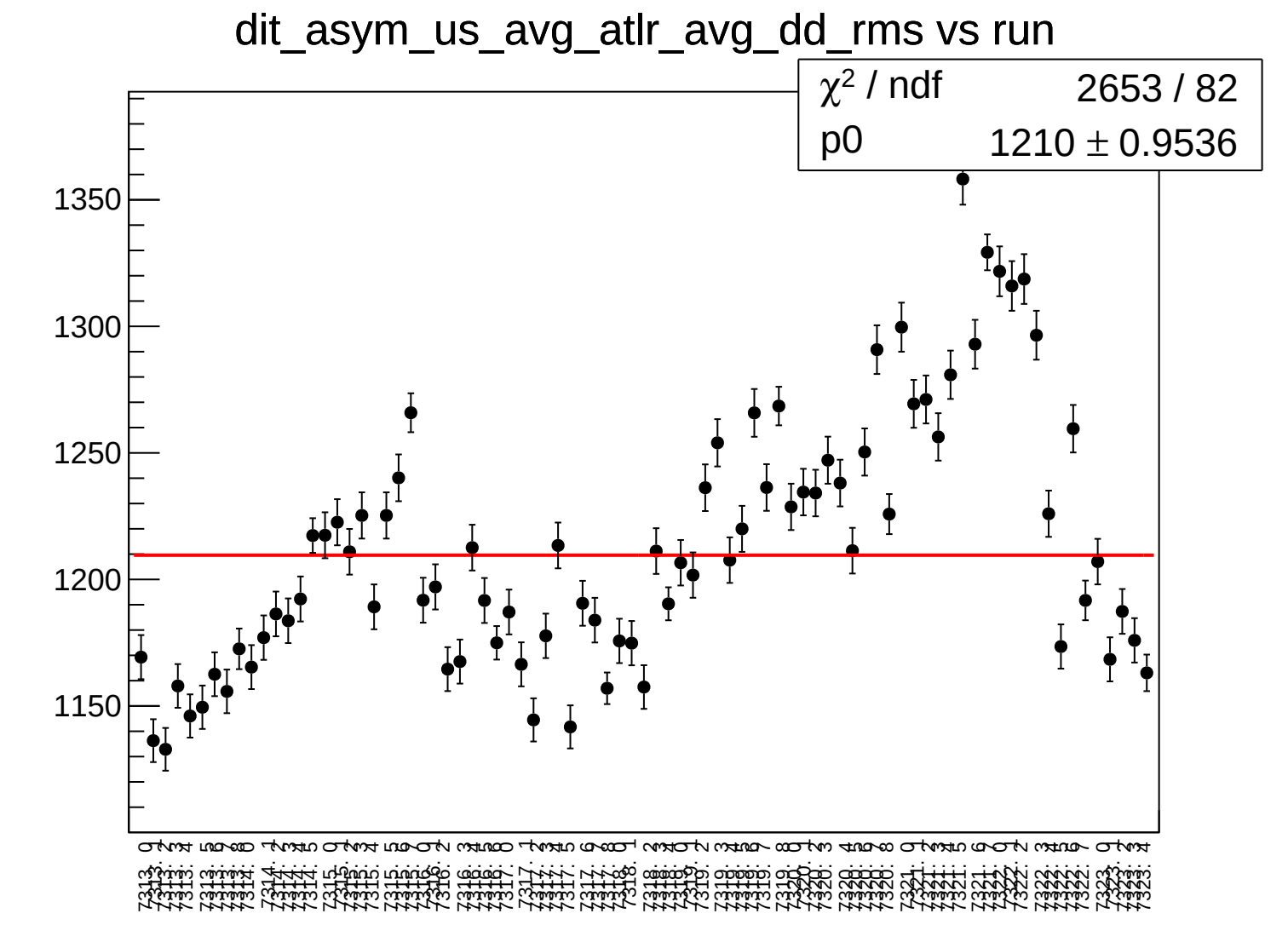

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.32 / 82
p0 −6031 ± 5106
pull
Entries 83
Mean 1251
Std Dev 0

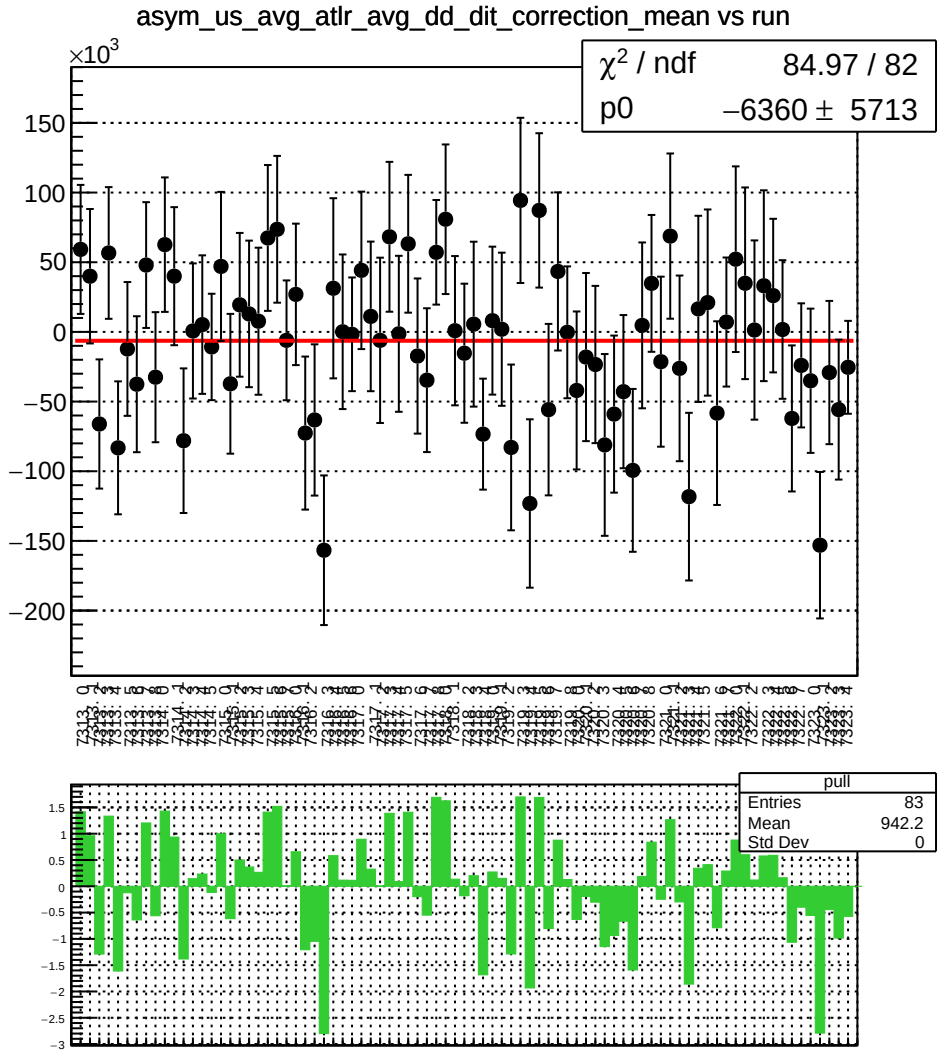

pull1D
Entries 83
Mean −0.003933
Std Dev 1.008

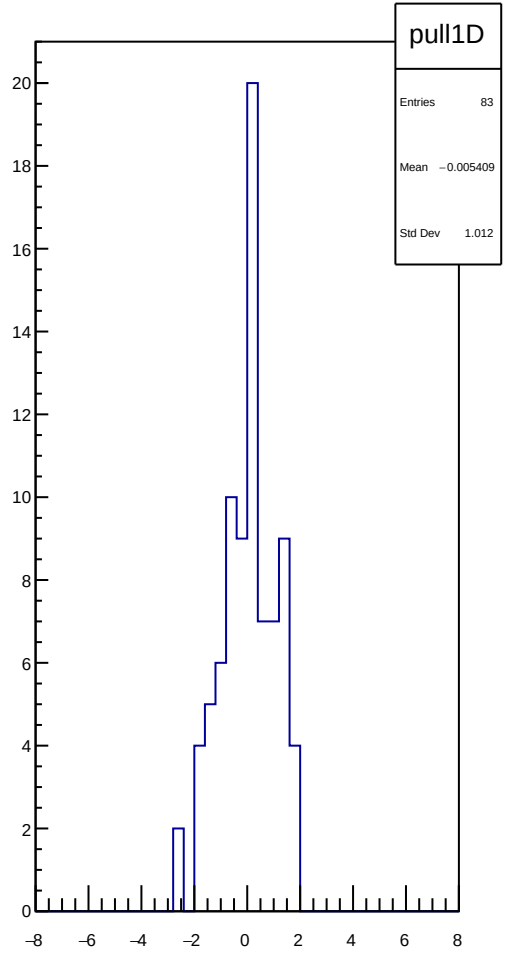

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.619e+04 / 82
p0 4561 ± 3.611
6000
5500
5000
4500
4000
3500

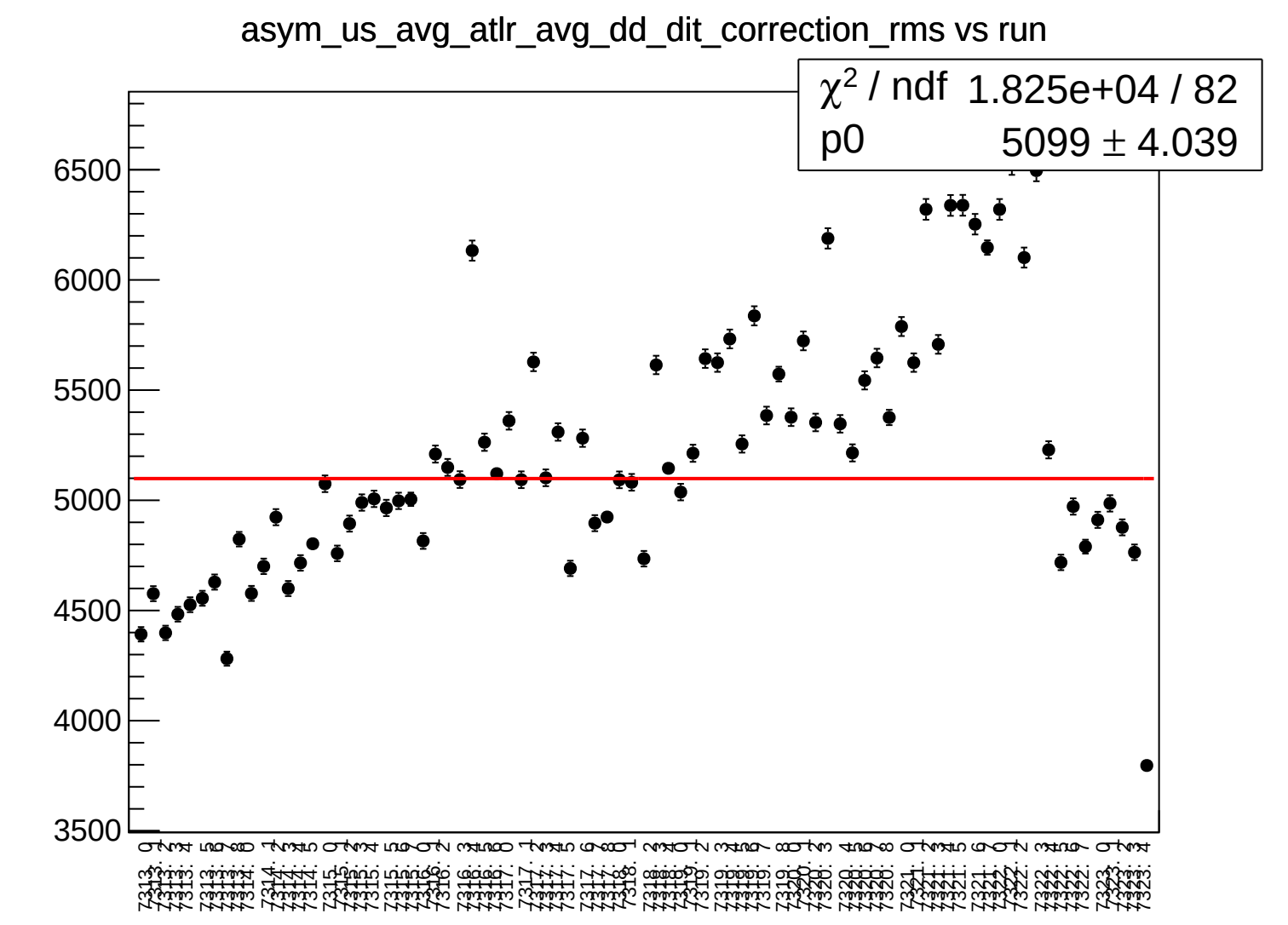

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.1 / 82
p0 526 ± 1349
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 222.1
Std Dev 0
3
2
1
0
−1
−2

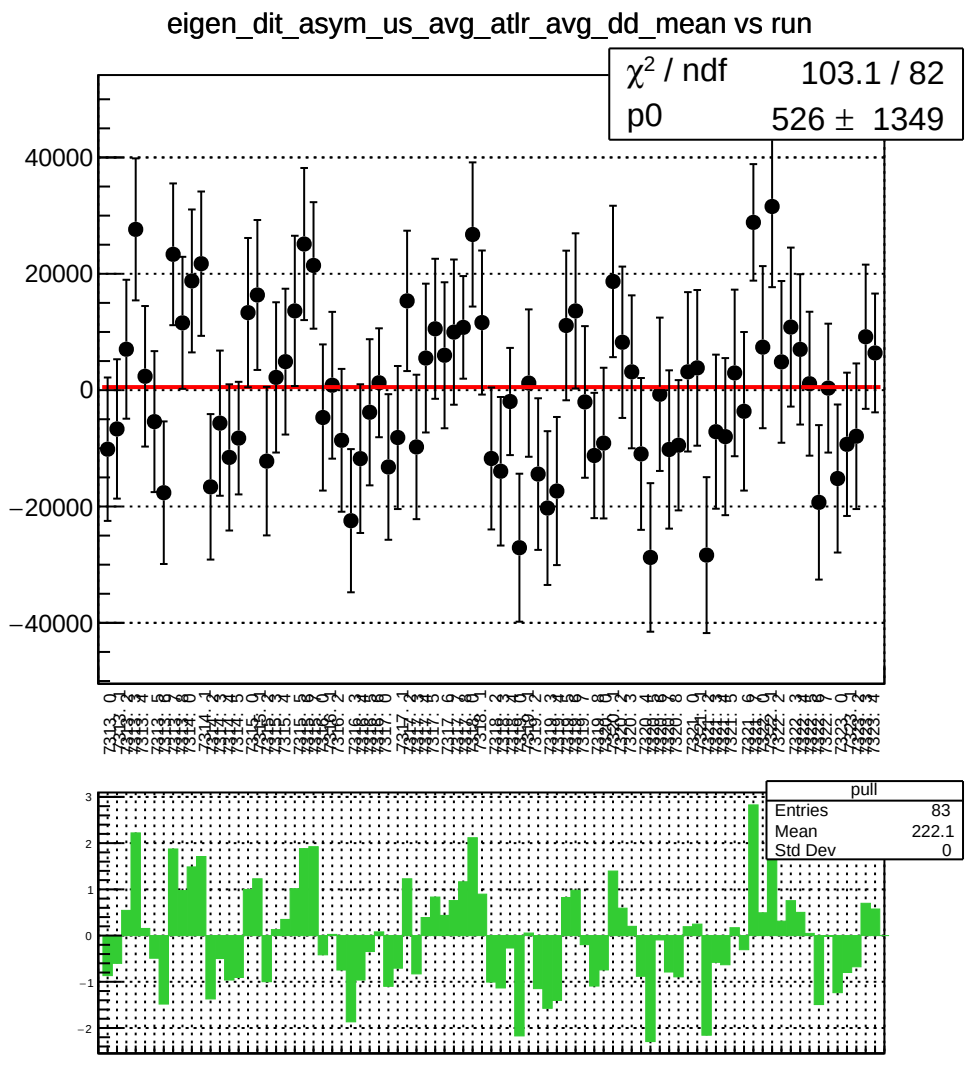

pull1D
Entries 83
Mean −0.01446
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

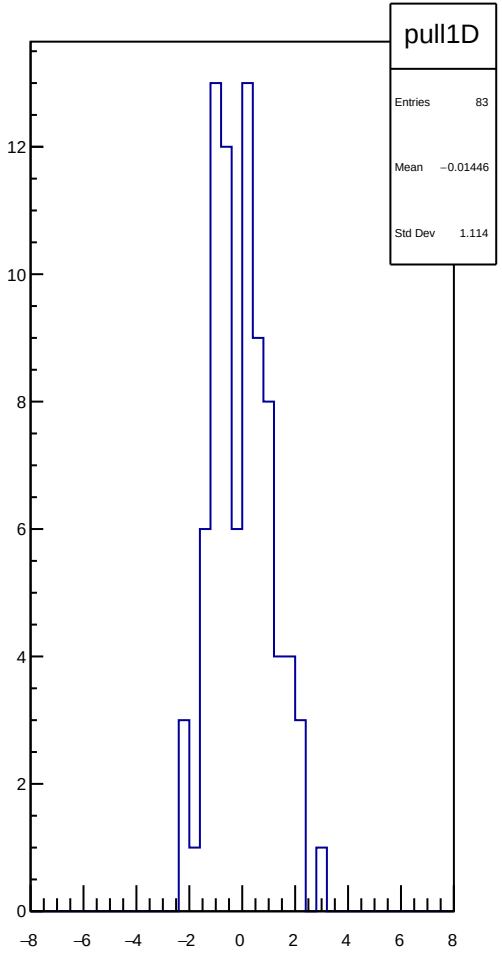

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2653 / 82
p0 1210 ± 0.9536
1350
1300
1250
1200
1150

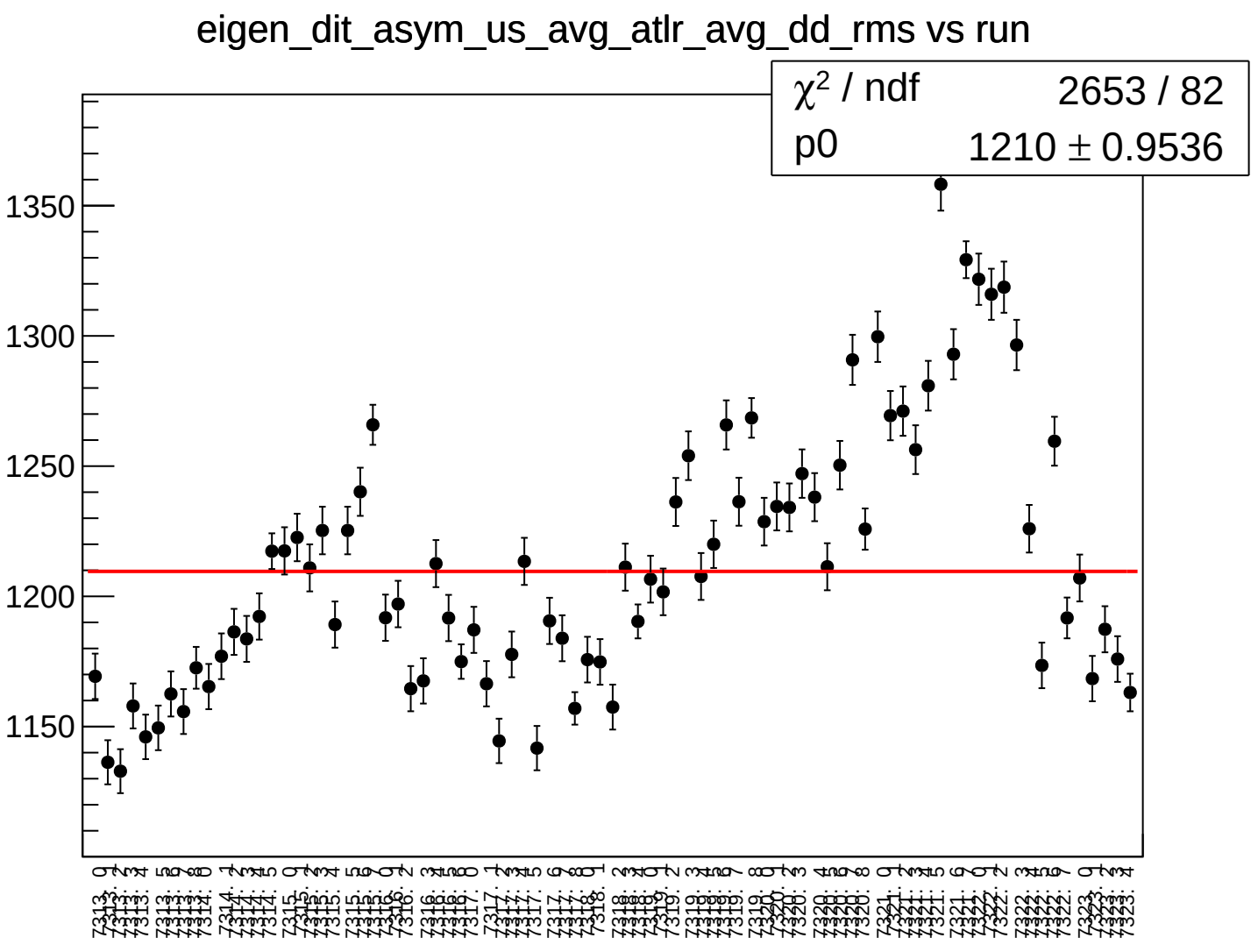

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.97 / 82
p0 −6360 ± 5713
150
100
50
0
−50
−100
−150
−200
pull
Entries 83
Mean 942.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

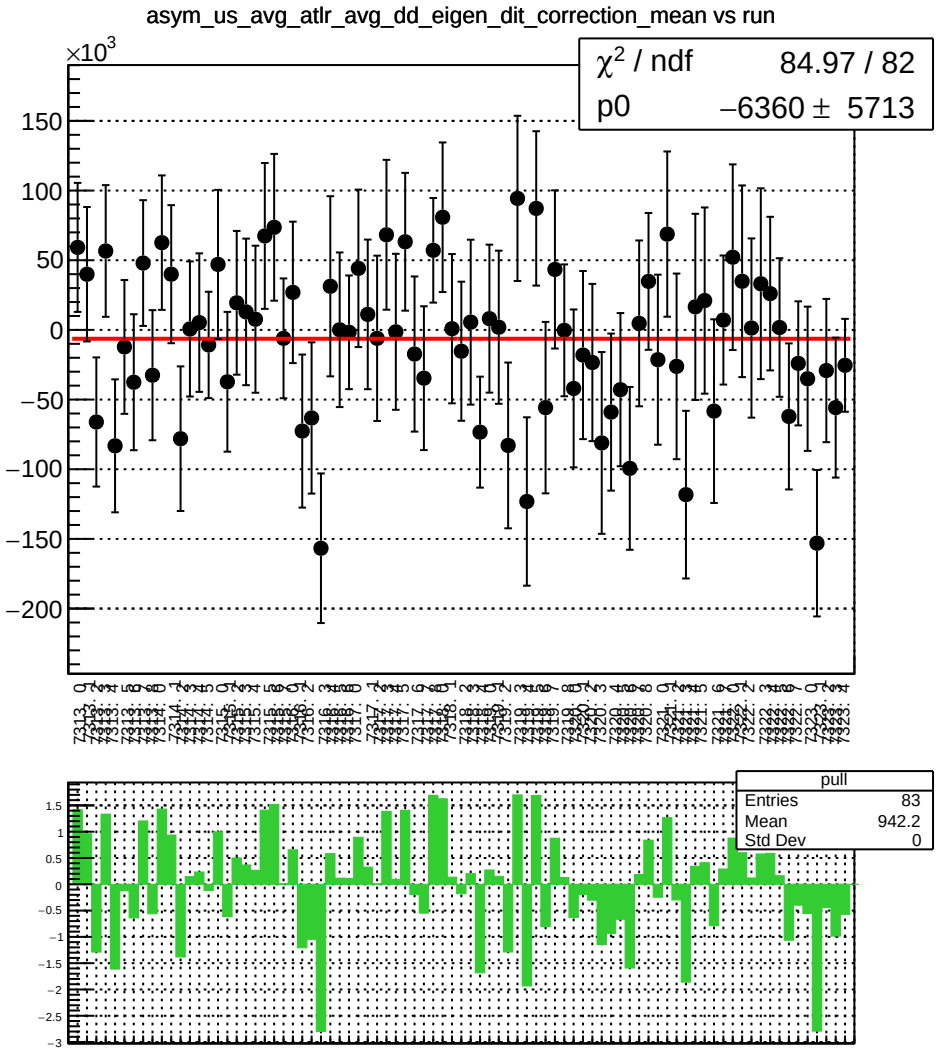

pull1D
Entries 83
Mean −0.005409
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

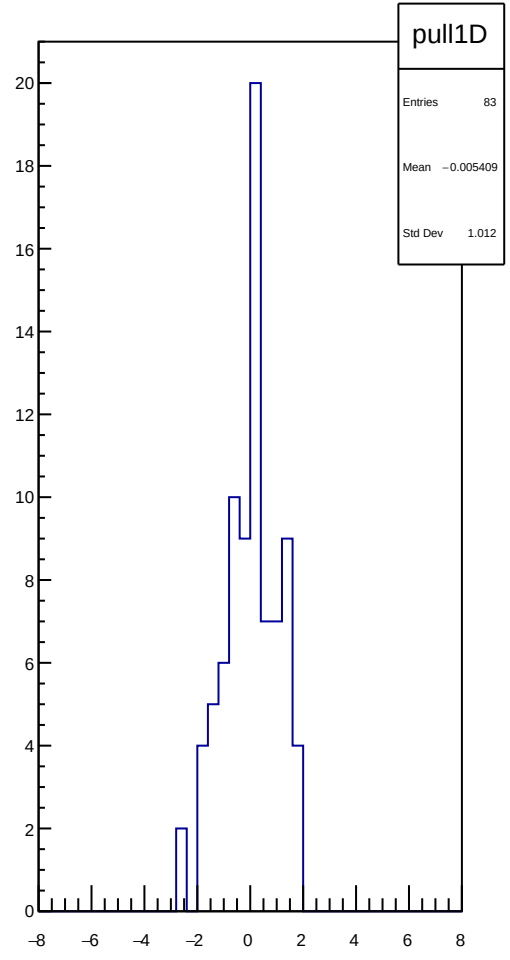

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 5099 ± 4.039
6500
6000
5500
5000
4500
4000
3500

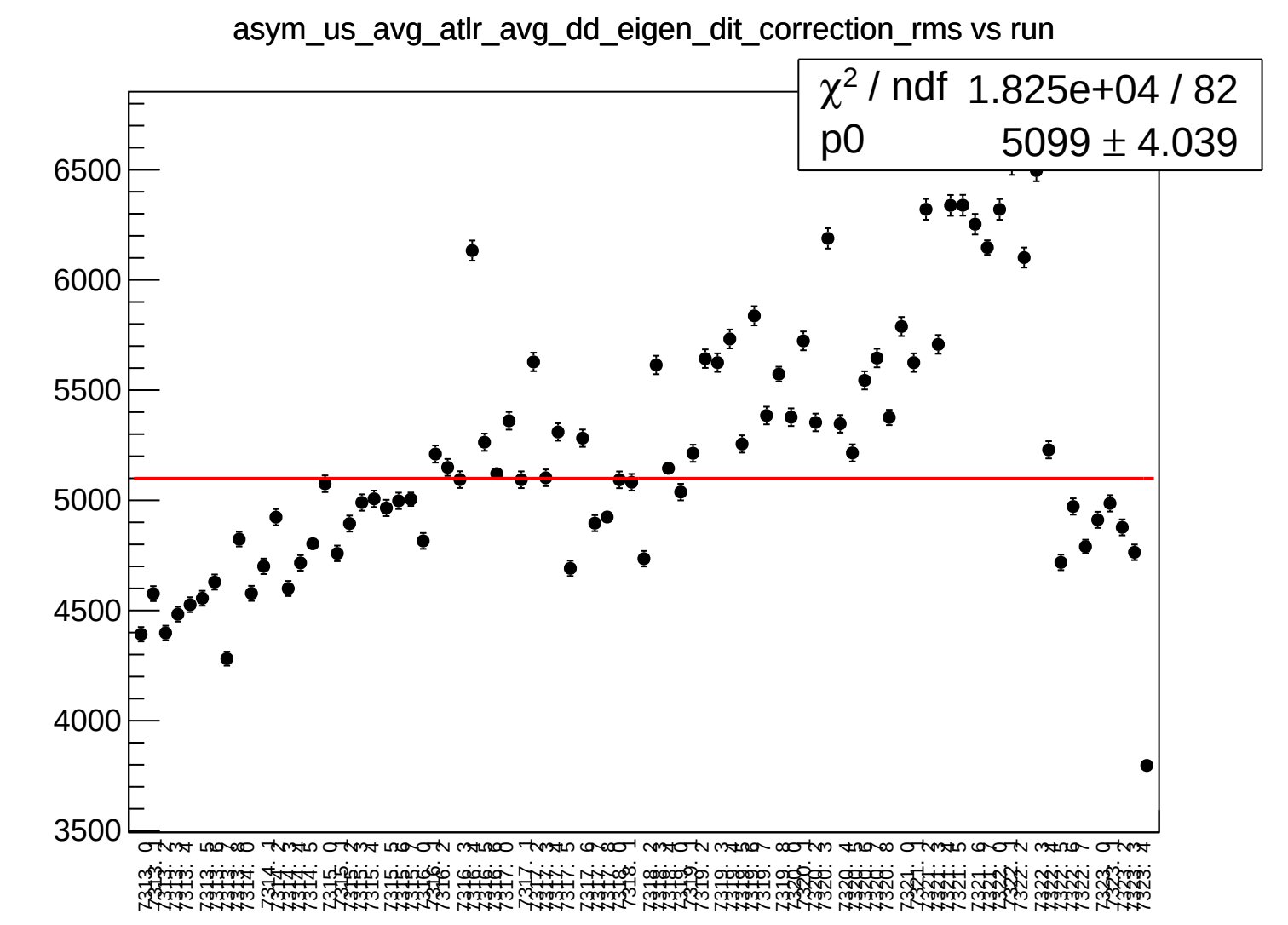

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.1 / 82
p0 526 ± 1349
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 222.1
Std Dev 0
3
2
1
0
−1
−2

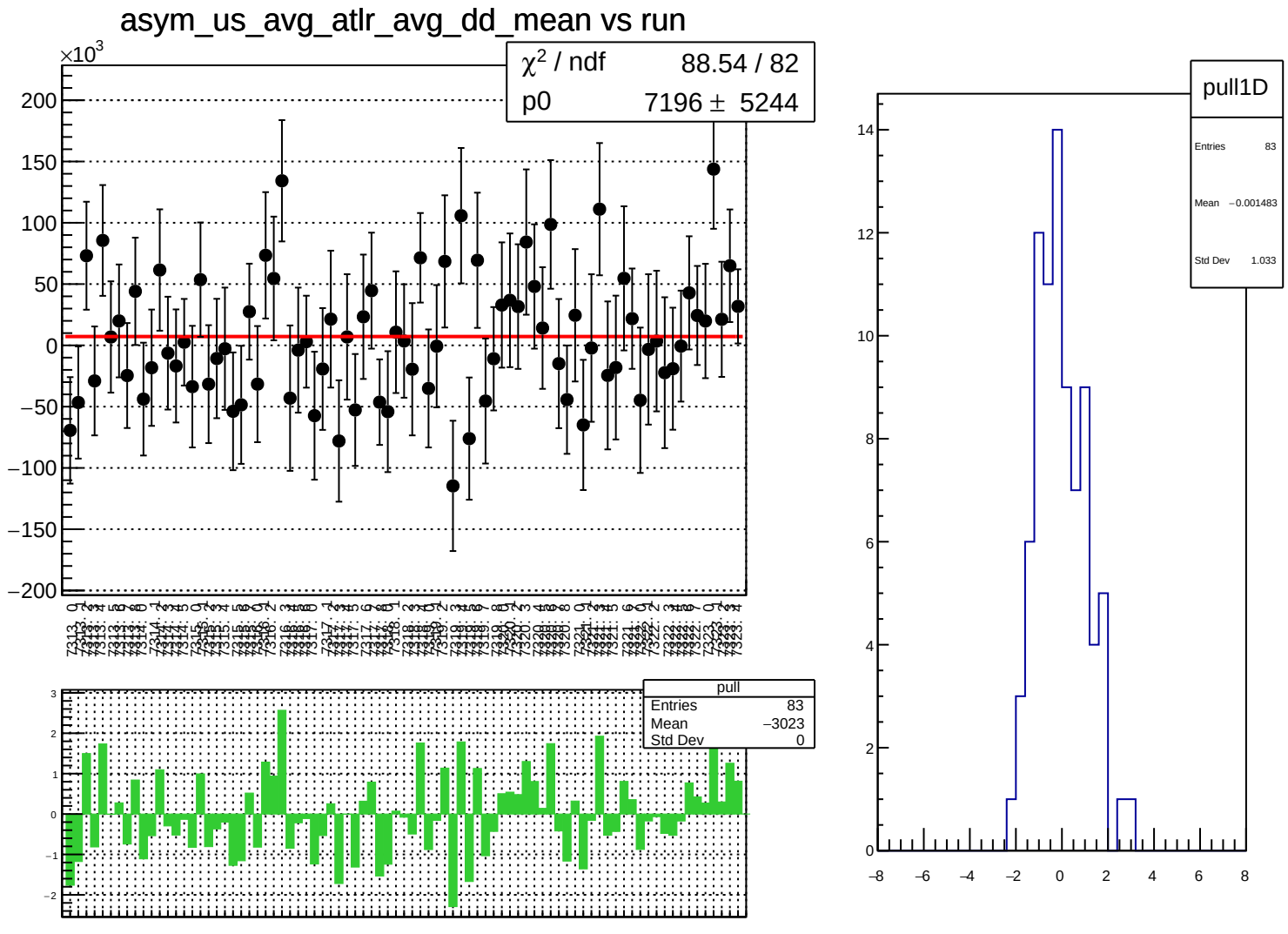

pull1D
Entries 83
Mean −0.01446
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

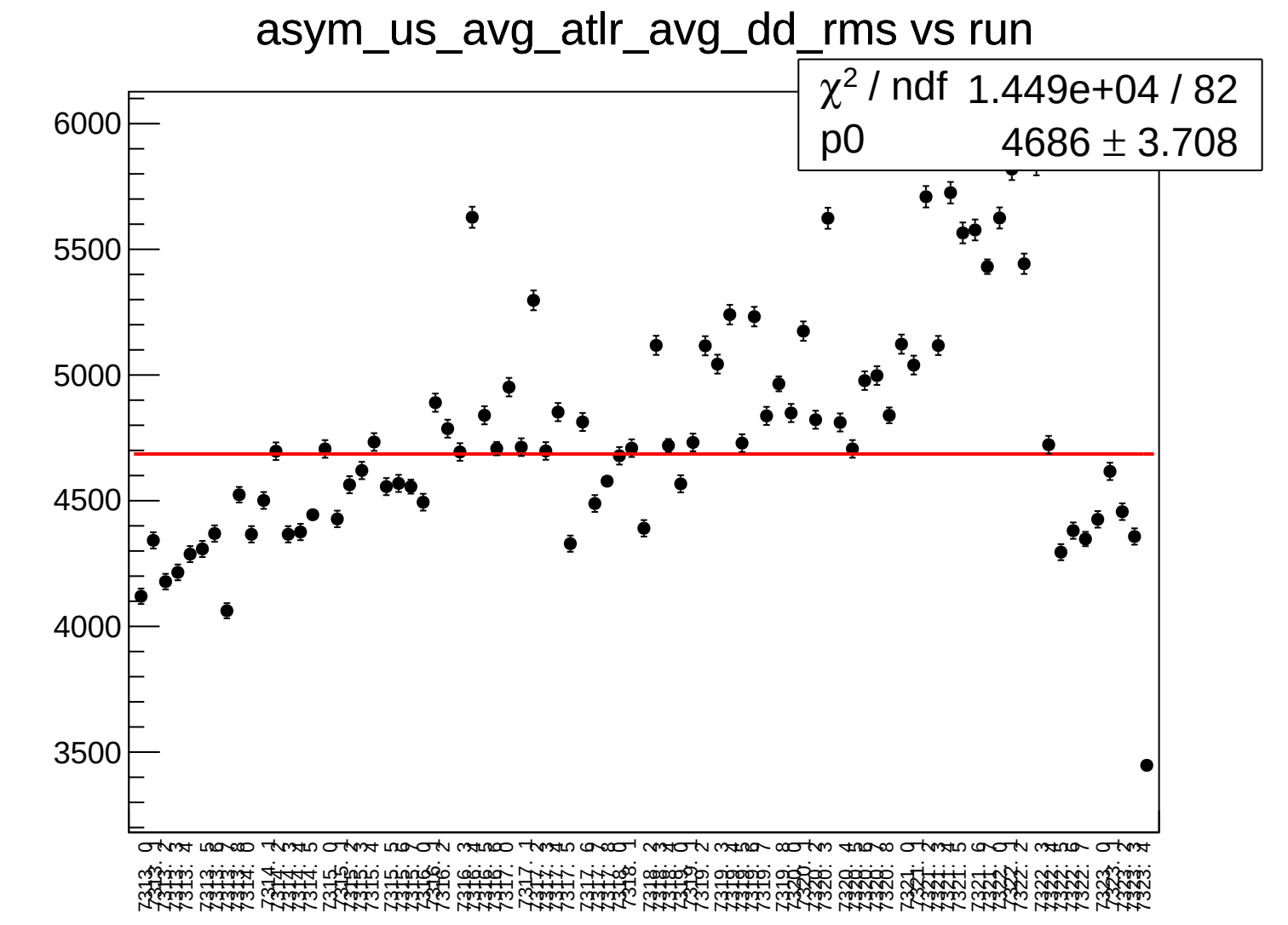

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2653 / 82
p0 1210 ± 0.9536
1350
1300
1250
1200
1150

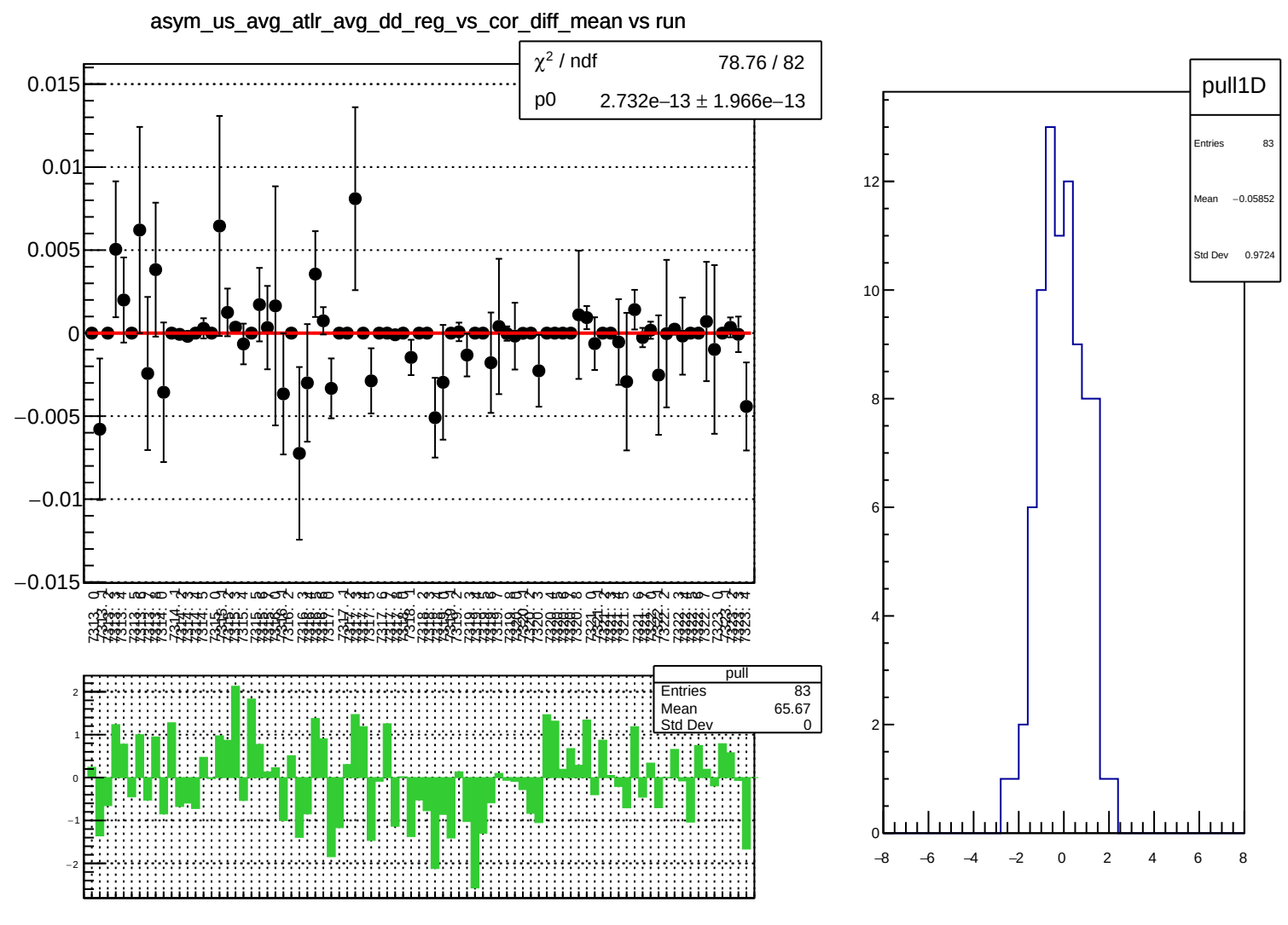

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.97 / 82
p0 −6360 ± 5713
150
100
50
0
−50
−100
−150
−200
pull
Entries 83
Mean 942.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

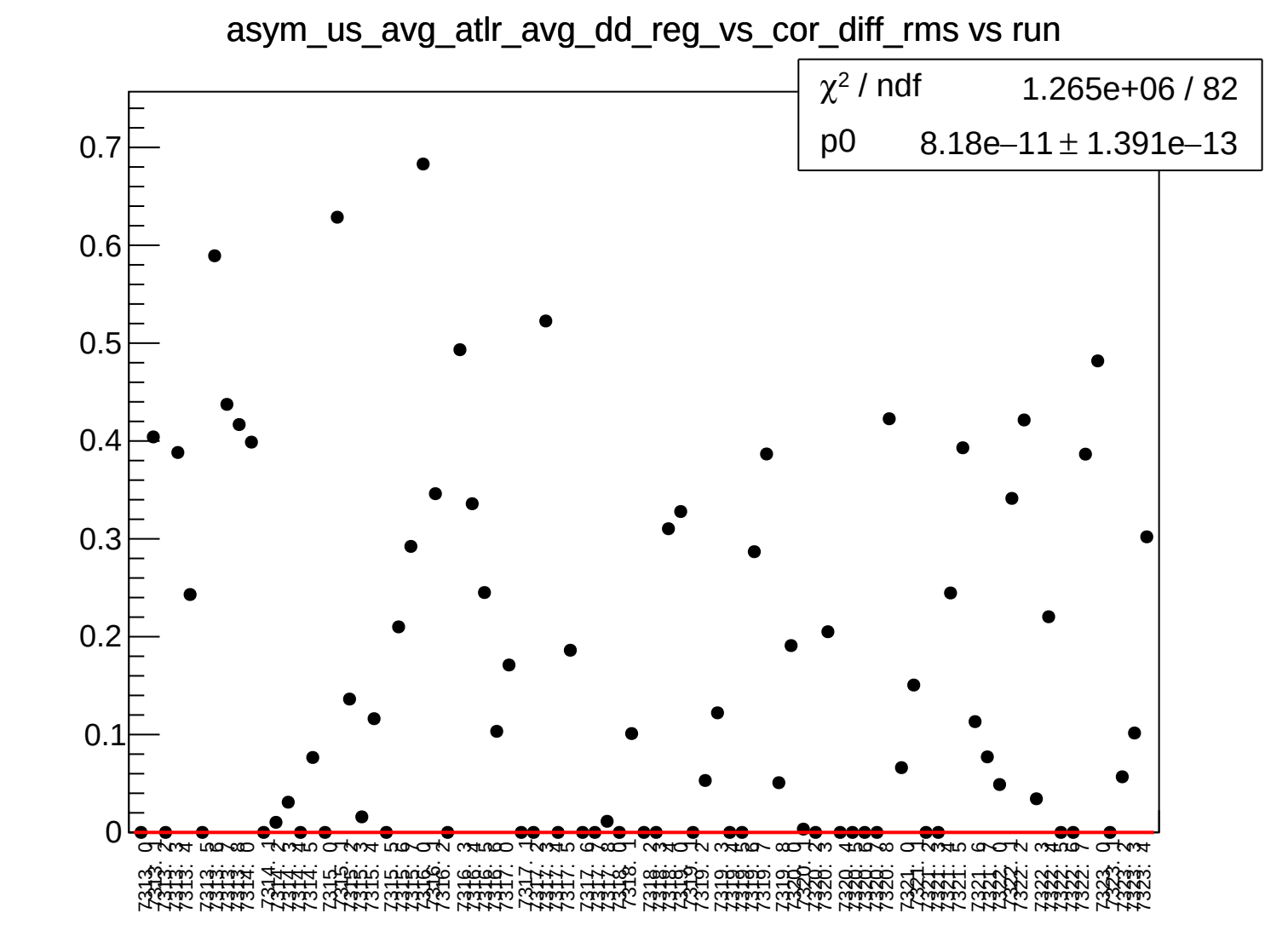

pull1D
Entries 83
Mean −0.005409
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

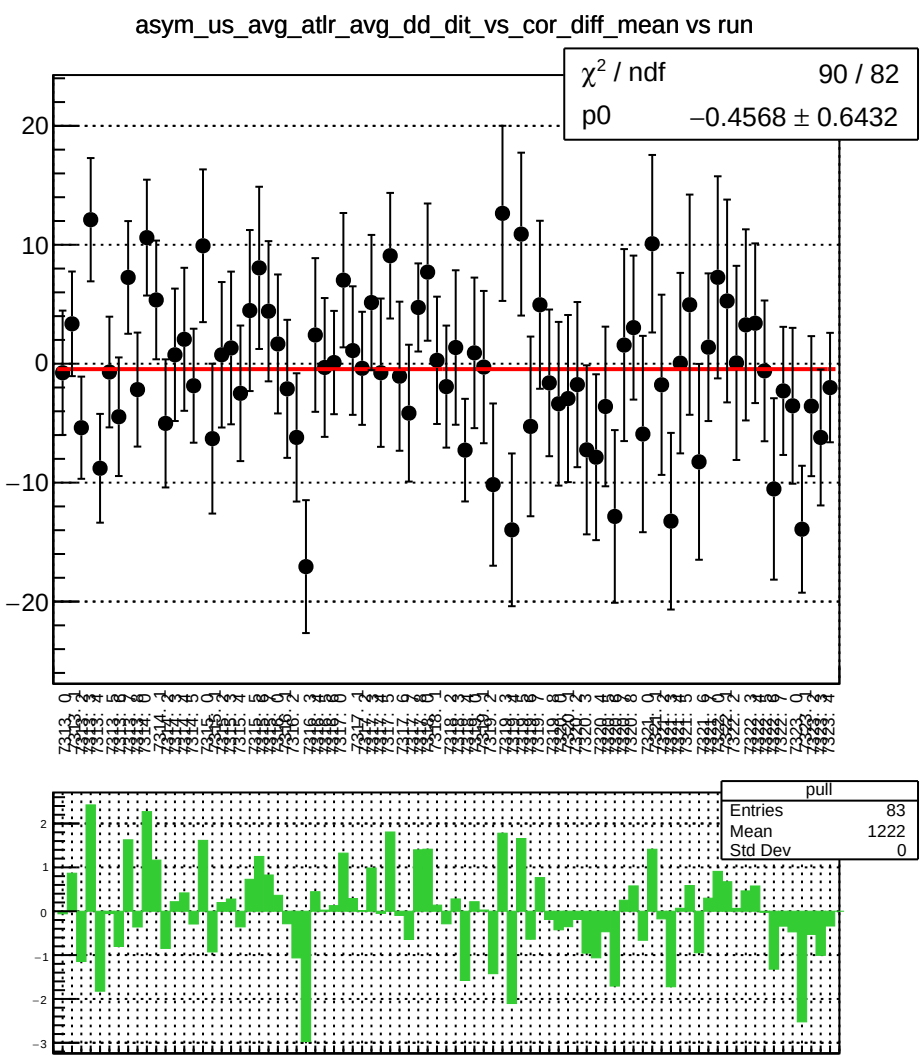

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.825e+04 / 82
p0 5099 ± 4.039
6500
6000
5500
5000
4500
4000
3500

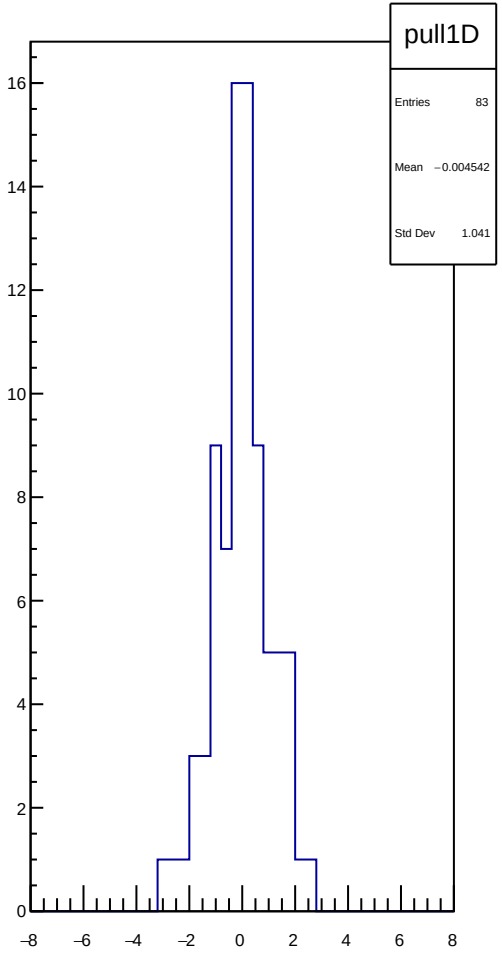

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.54 / 82
p0 7196 ± 5244
×10³
pull
Entries 83
Mean −3023
Std Dev 0
pull1D
Entries 83
Mean −0.001483
Std Dev 1.033

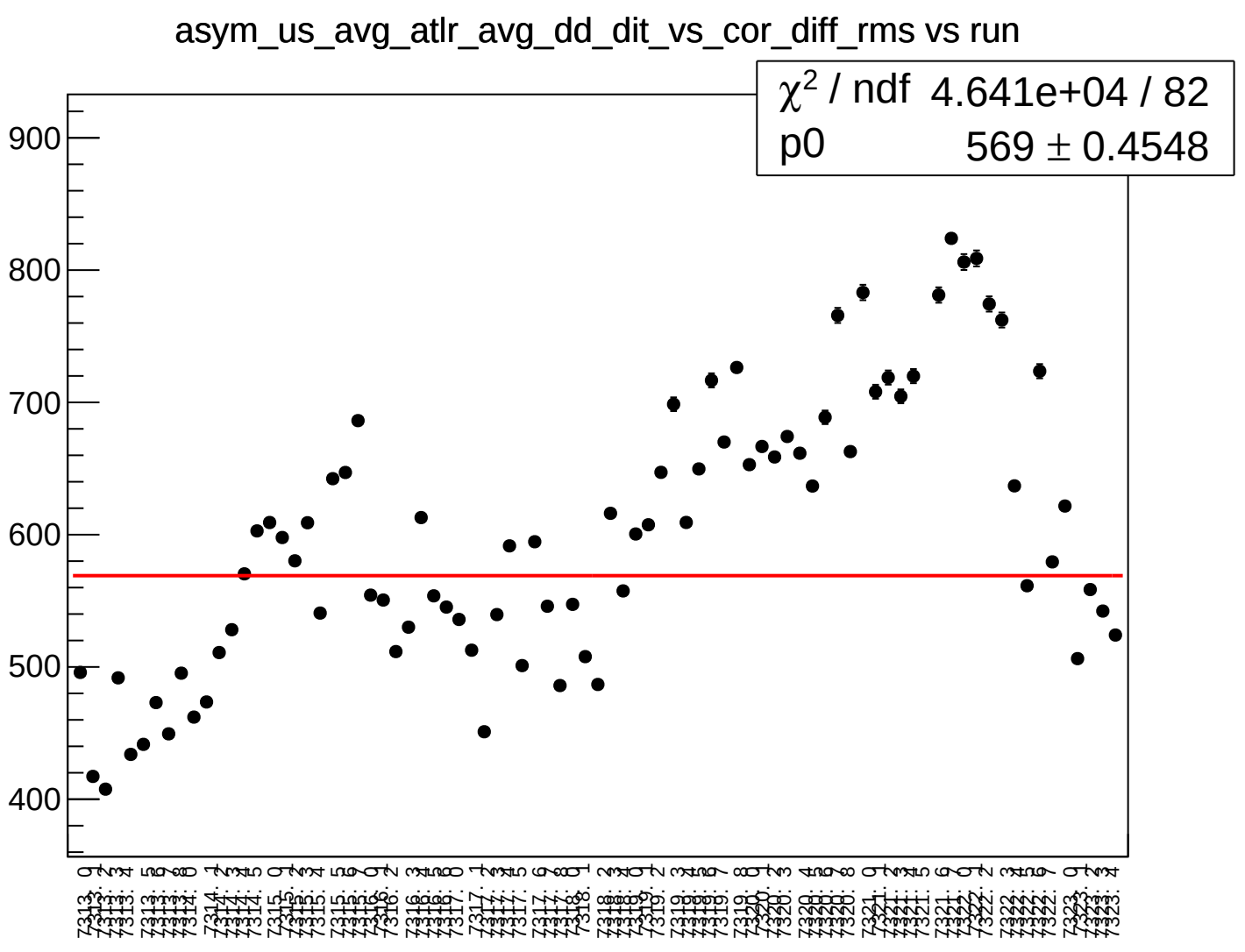

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.449e+04 / 82
p0 4686 ± 3.708
6000
5500
5000
4500
4000
3500

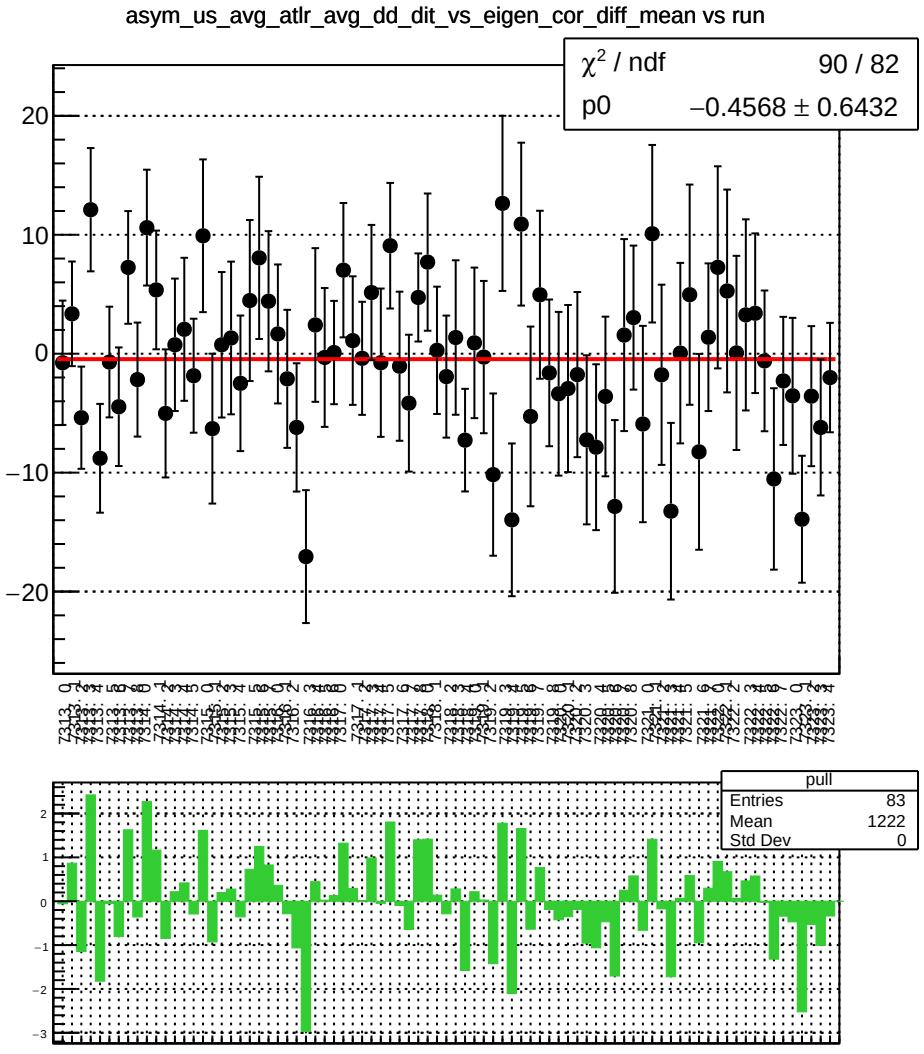

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.76 / 82
p0 2.732e−13 ± 1.966e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 83
Mean 65.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.05852
Std Dev 0.9724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

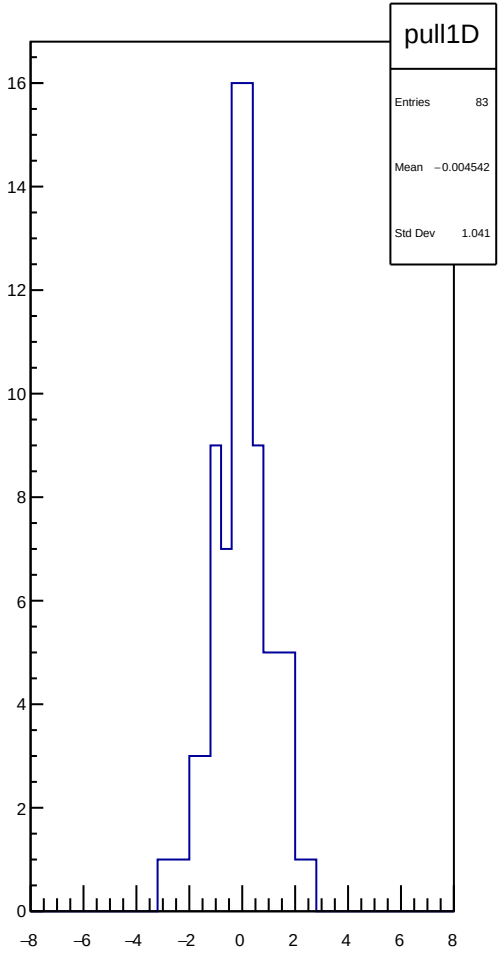

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.265e+06 / 82
p0 8.18e−11 ± 1.391e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

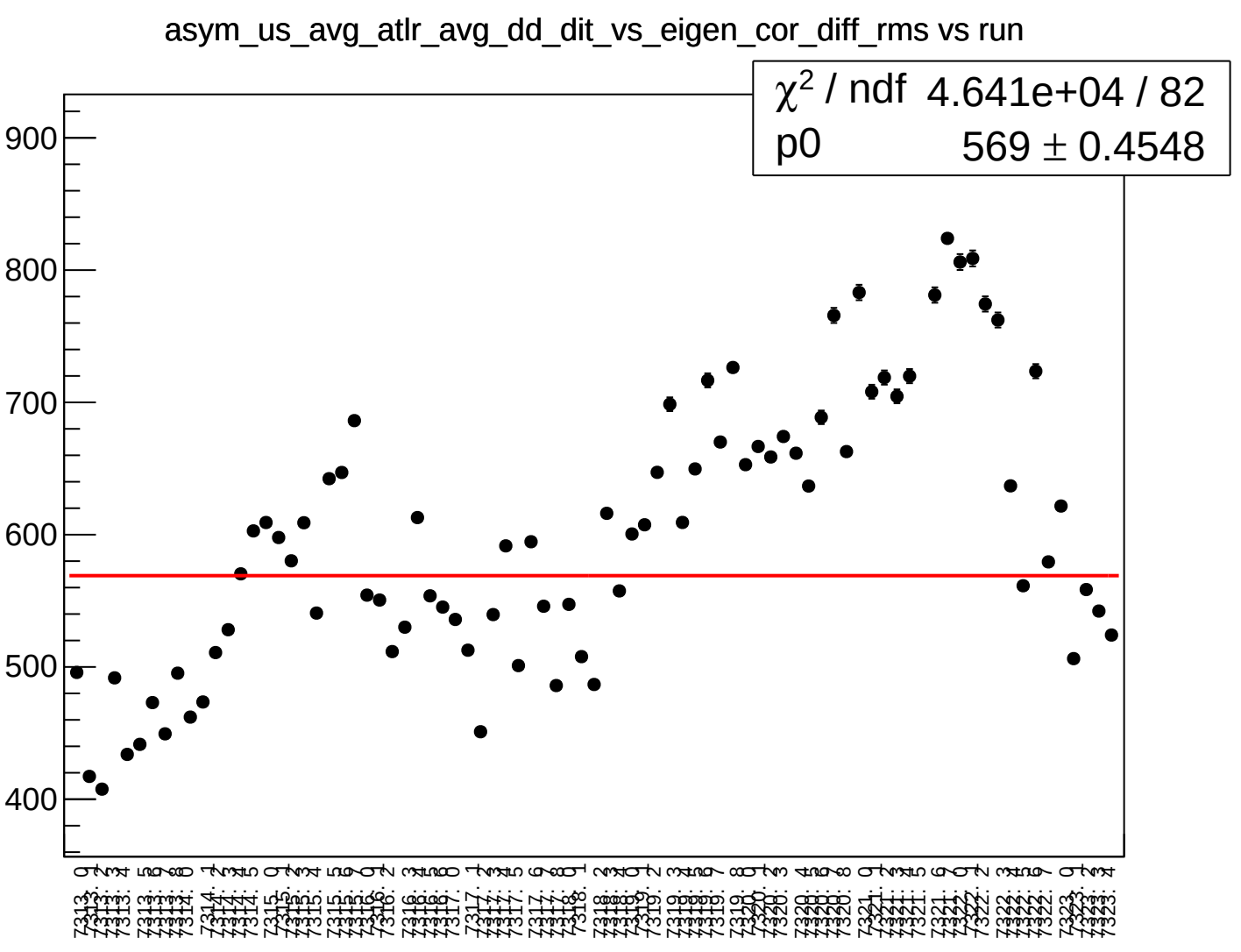

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90 / 82
p0 −0.4568 ± 0.6432
pull
Entries 83
Mean 1222
Std Dev 0

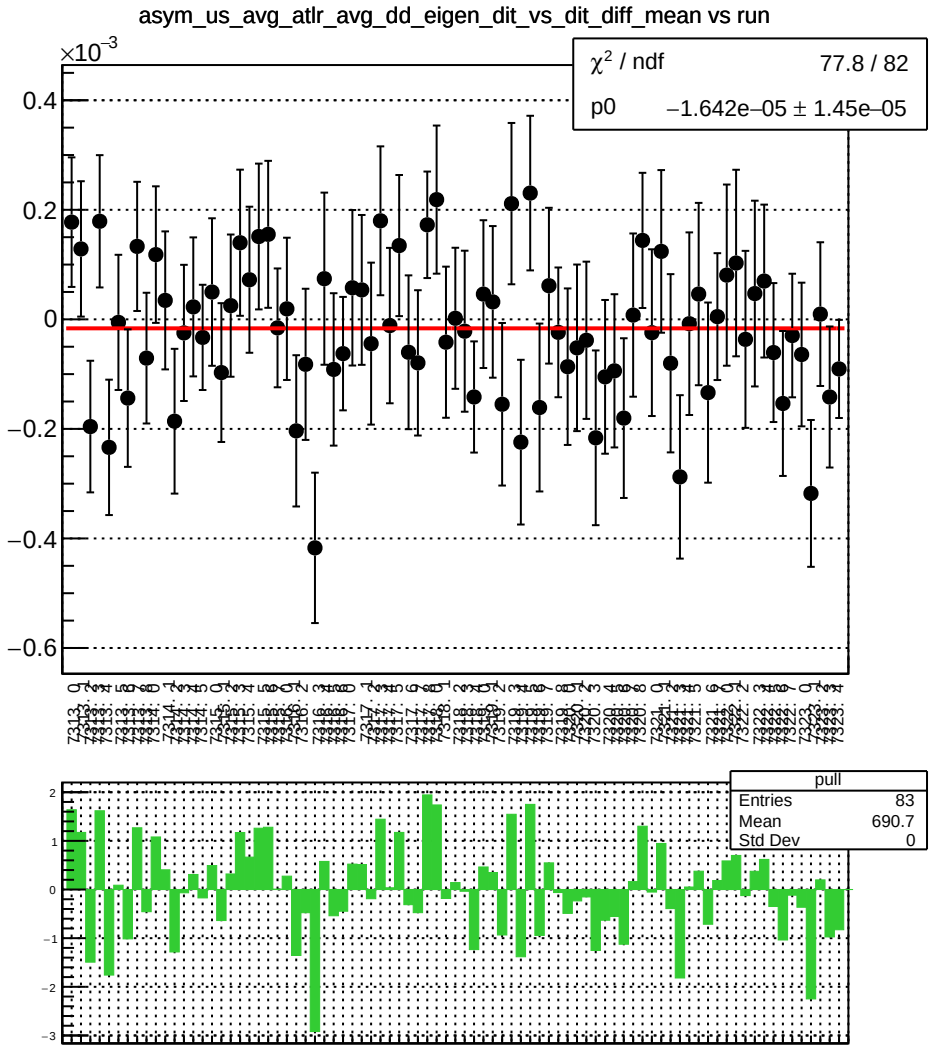

pull1D
Entries 83
Mean −0.004542
Std Dev 1.041

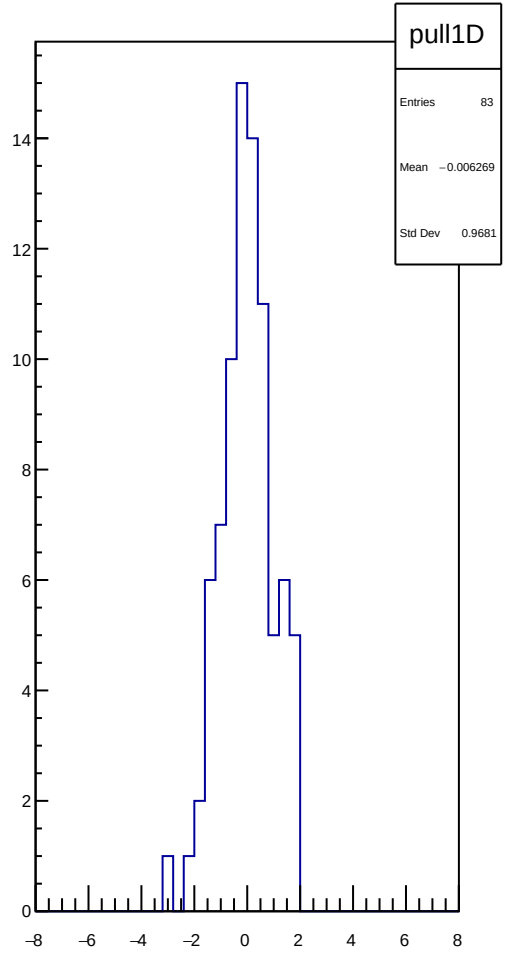

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.641e+04 / 82
p0 569 ± 0.4548
900
800
700
600
500
400

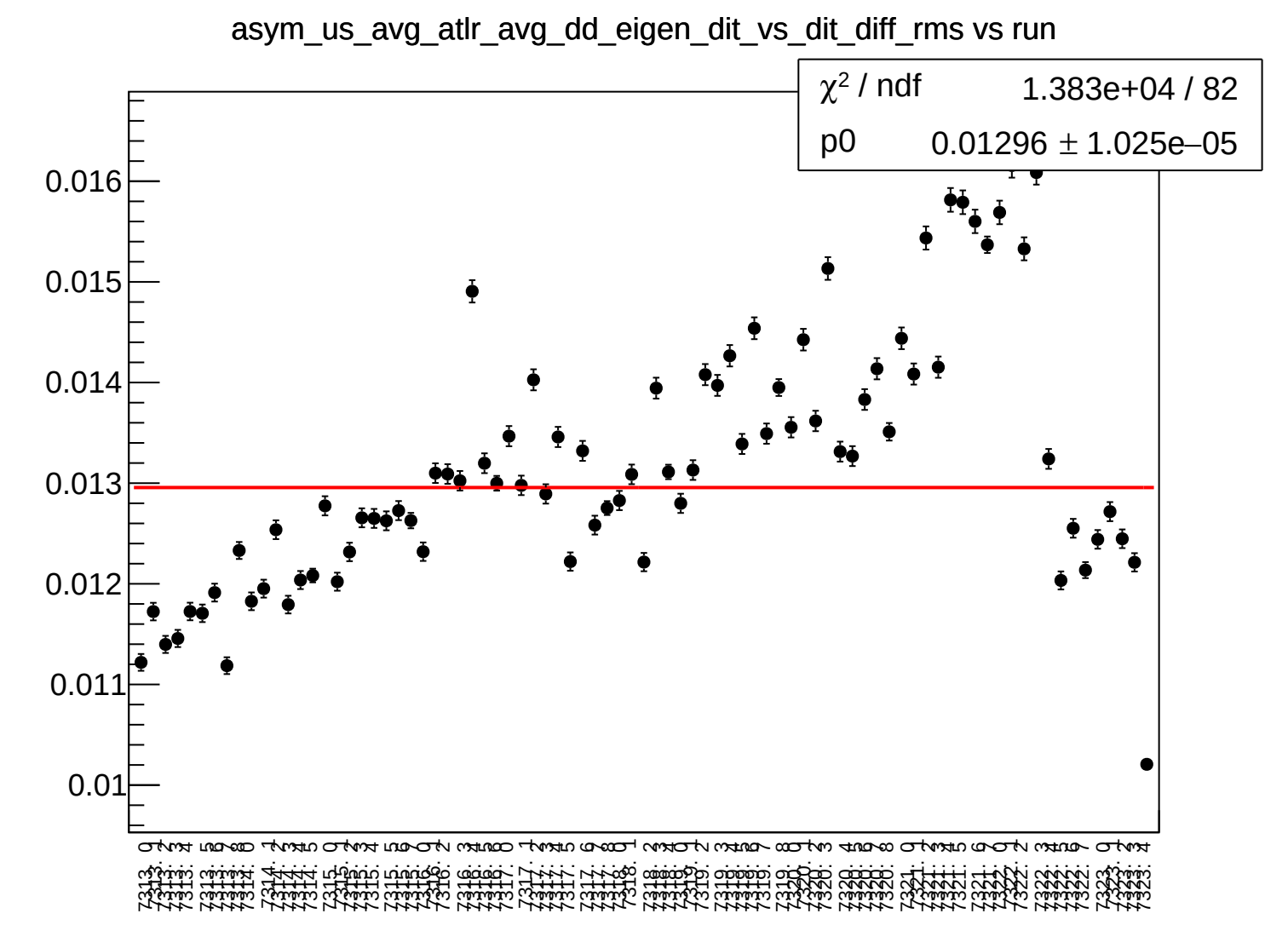

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90 / 82
p0 −0.4568 ± 0.6432
pull
Entries 83
Mean 1222
Std Dev 0

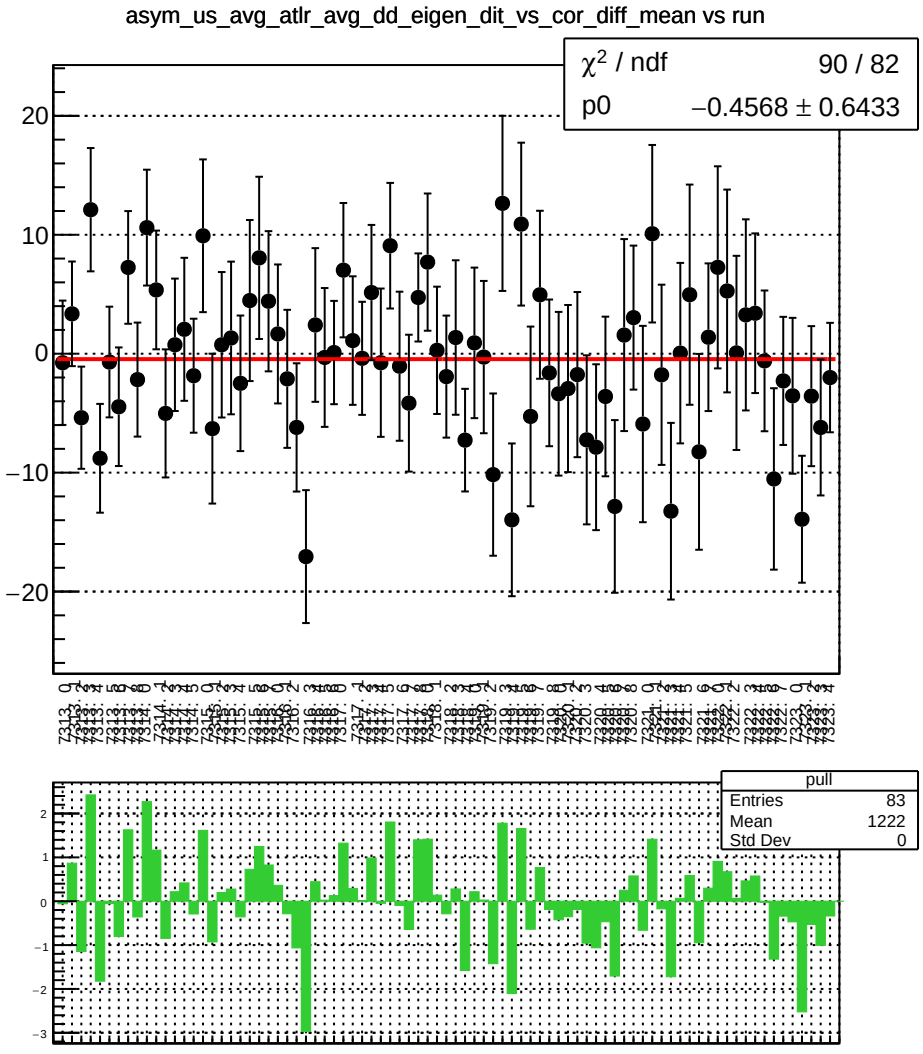

pull1D
Entries 83
Mean −0.004542
Std Dev 1.041

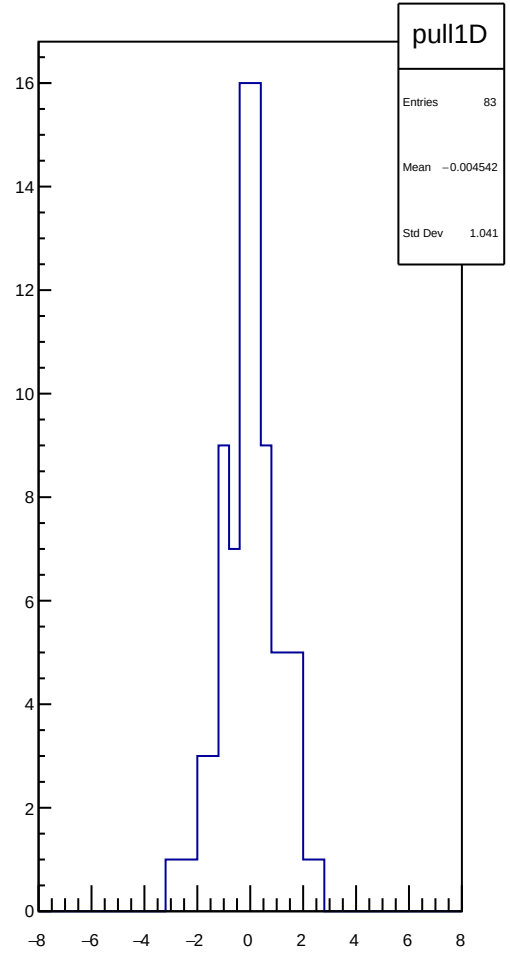

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.641e+04 / 82
p0 569 ± 0.4548
900
800
700
600
500
400

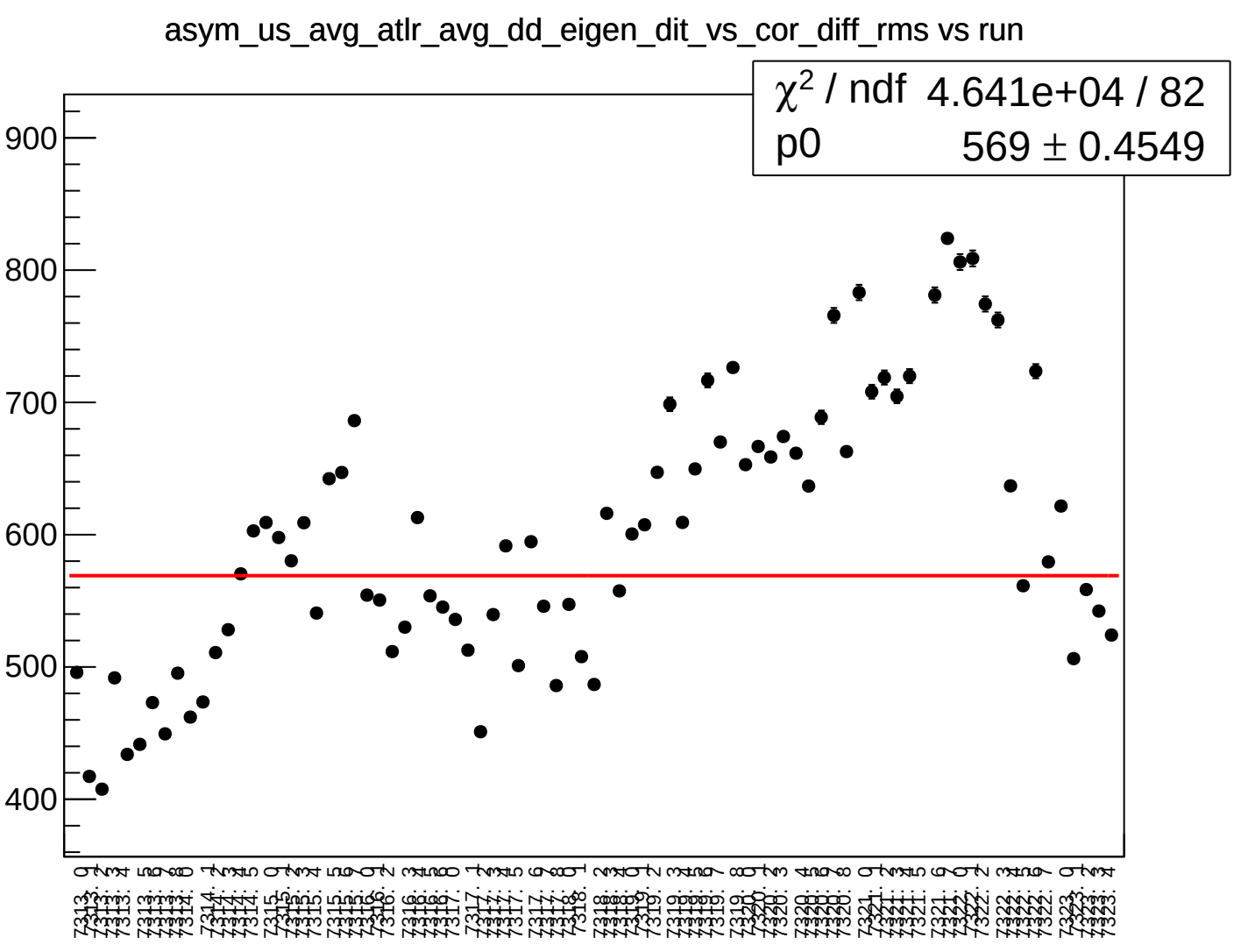

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.8 / 82
p0 −1.642e−05 ± 1.45e−05
pull
Entries 83
Mean 690.7
Std Dev 0

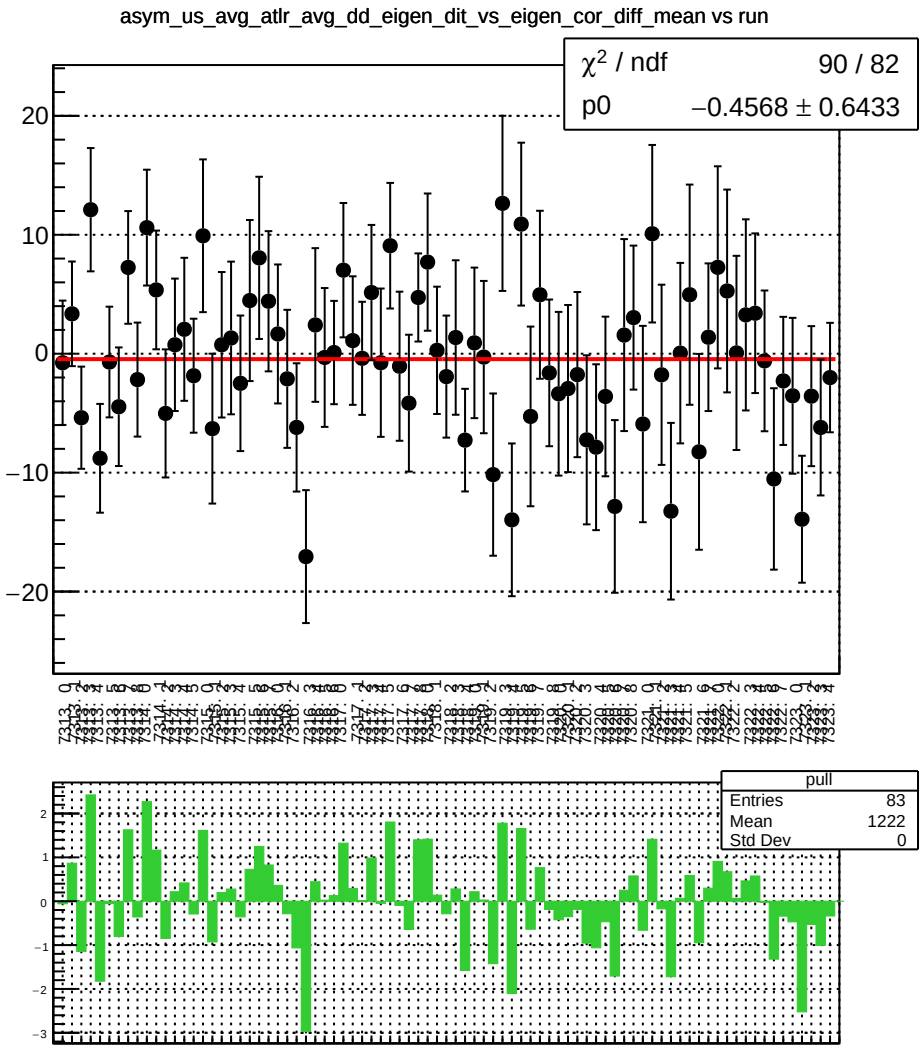

pull1D
Entries 83
Mean −0.006269
Std Dev 0.9681

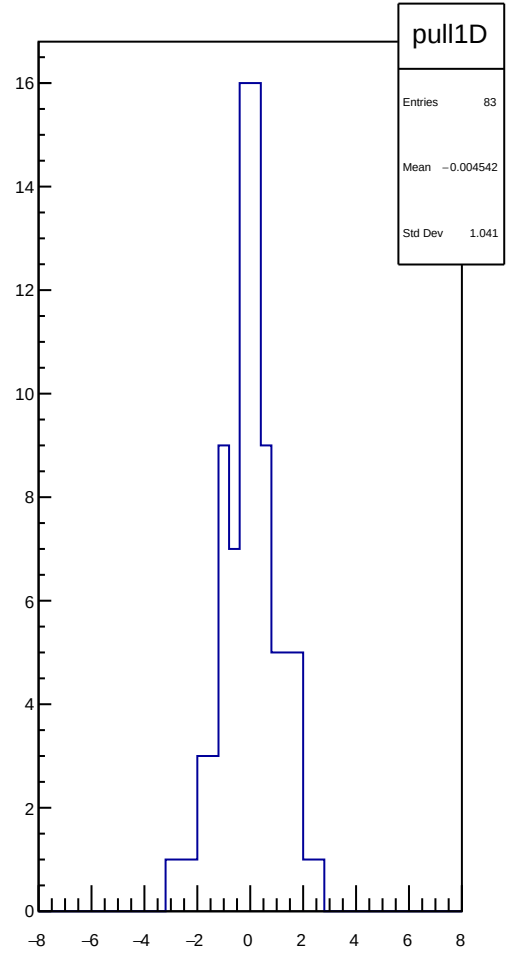

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.383e+04 / 82
p0 0.01296 ± 1.025e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01

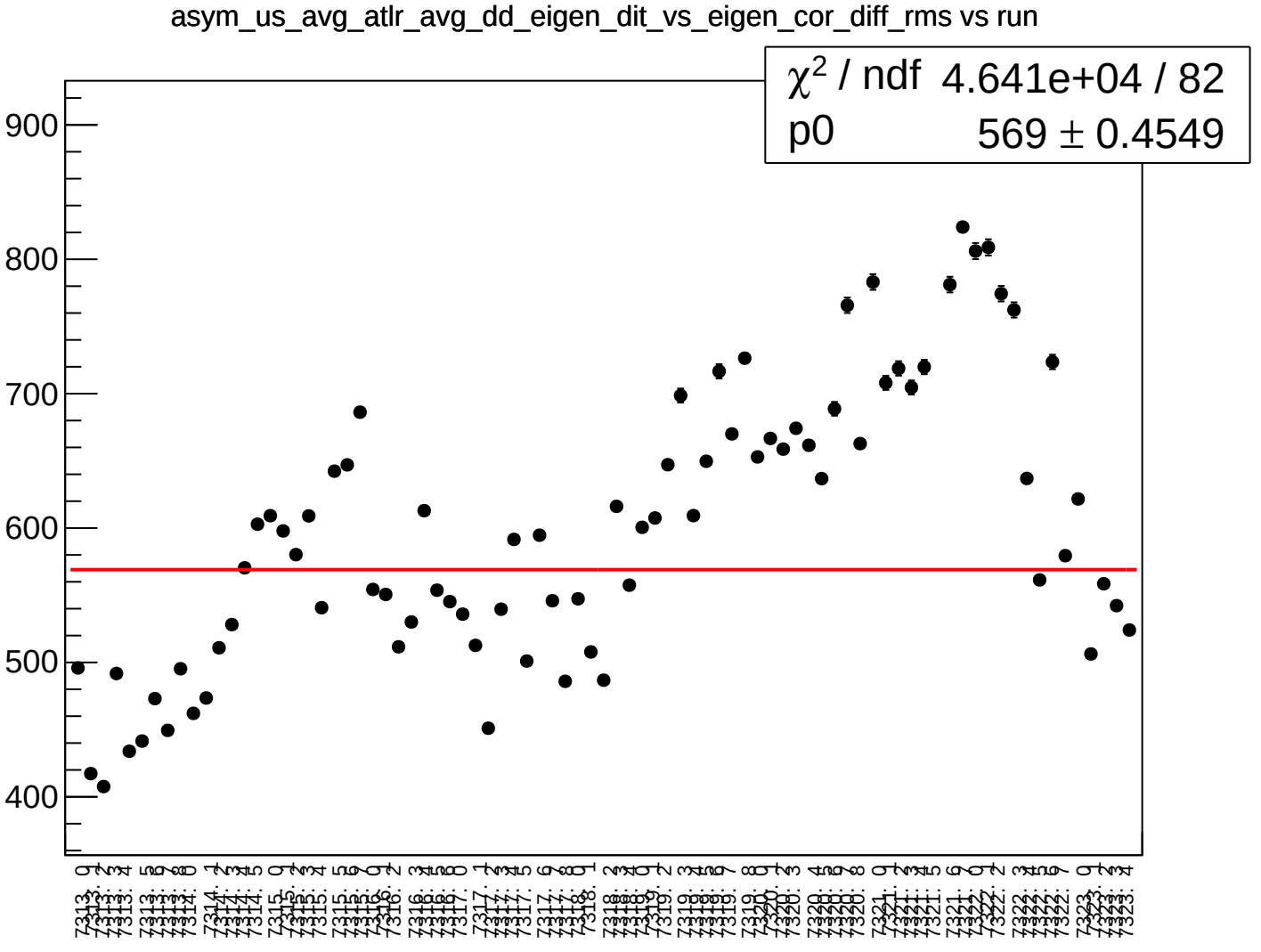

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90 / 82
p0 −0.4568 ± 0.6433
pull
Entries 83
Mean 1222
Std Dev 0

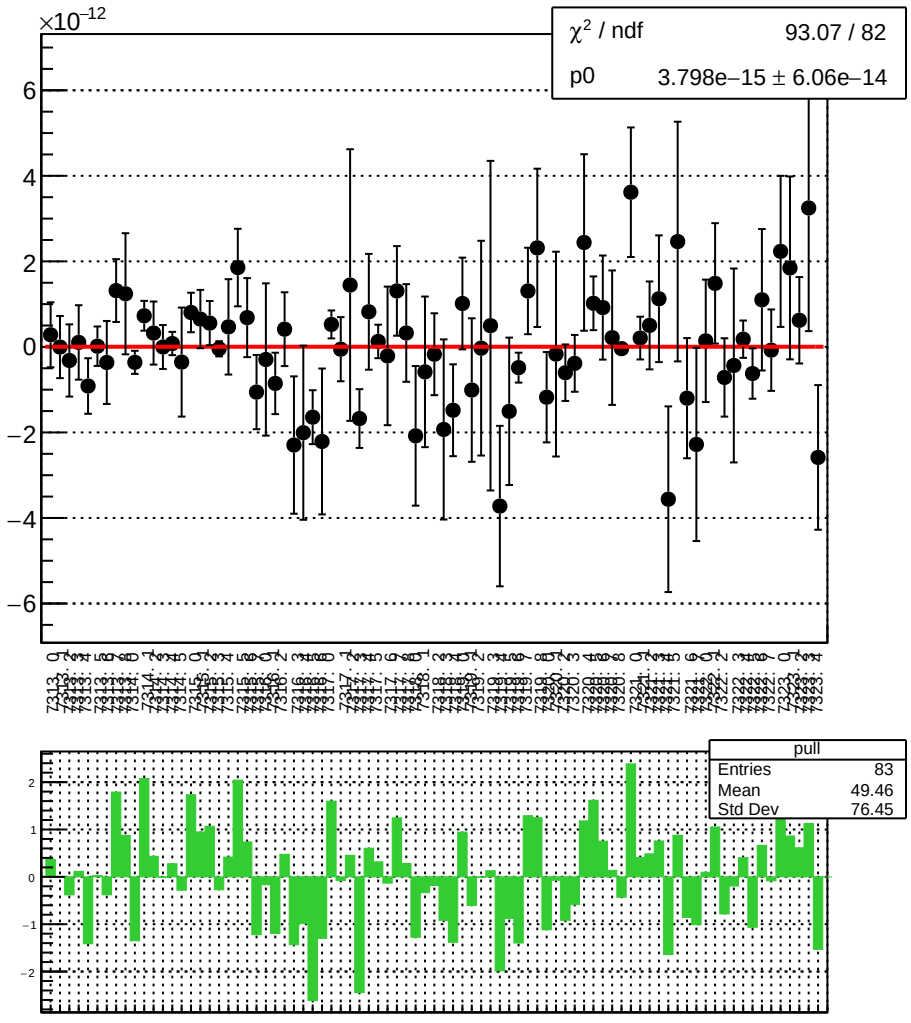

pull1D
Entries 83
Mean −0.004542
Std Dev 1.041

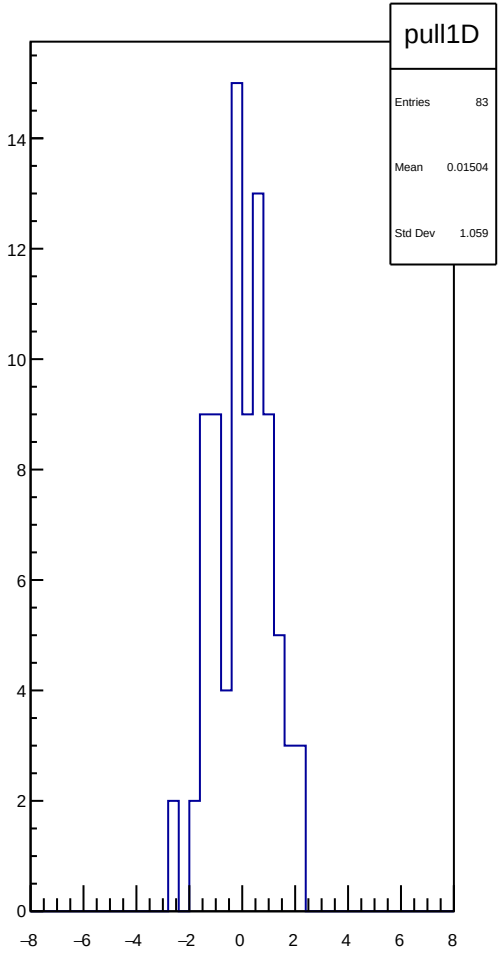

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.641e+04 / 82
p0 569 ± 0.4549
900
800
700
600
500
400

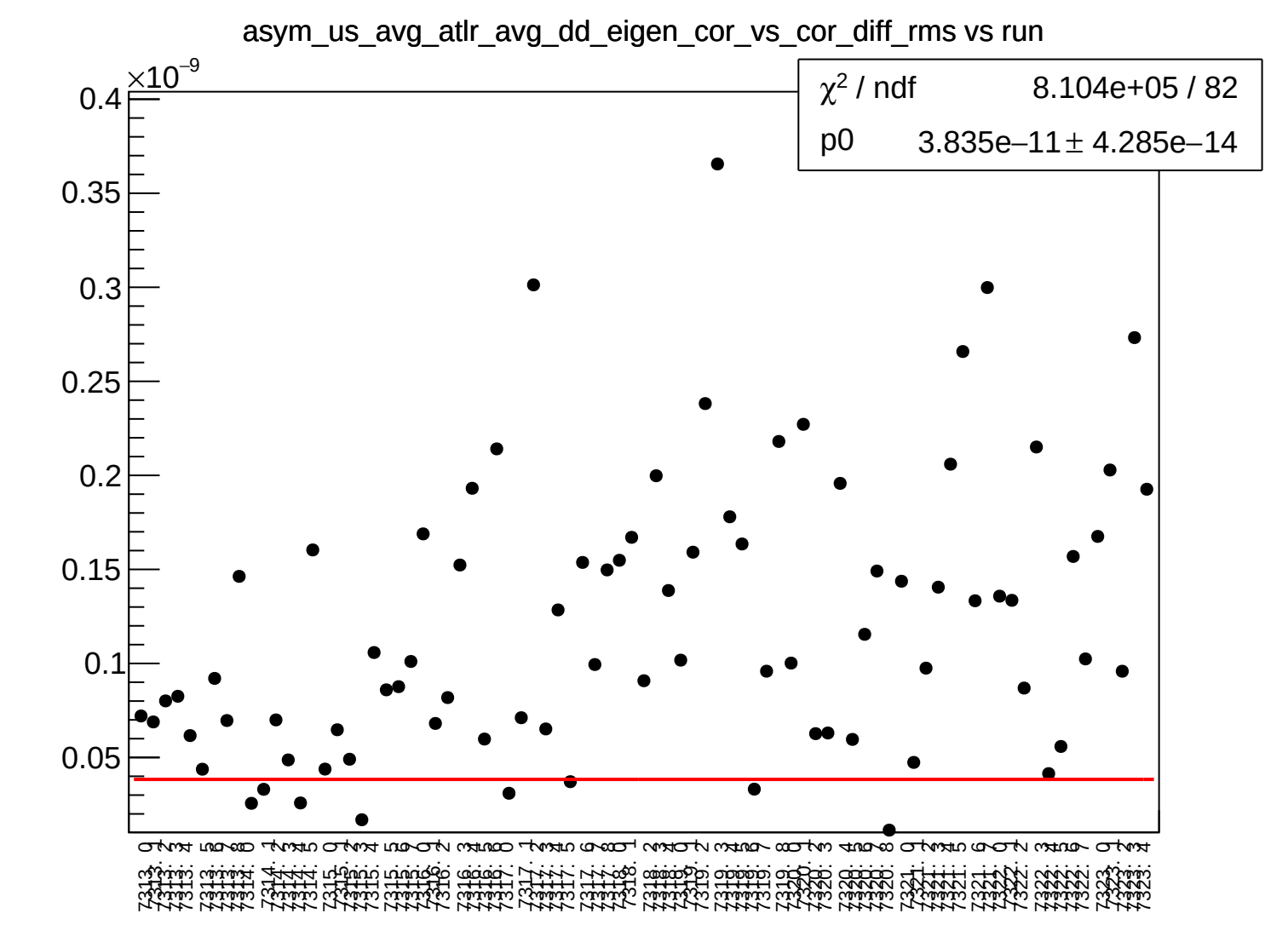

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90 / 82
p0 −0.4568 ± 0.6433
pull
Entries 83
Mean 1222
Std Dev 0

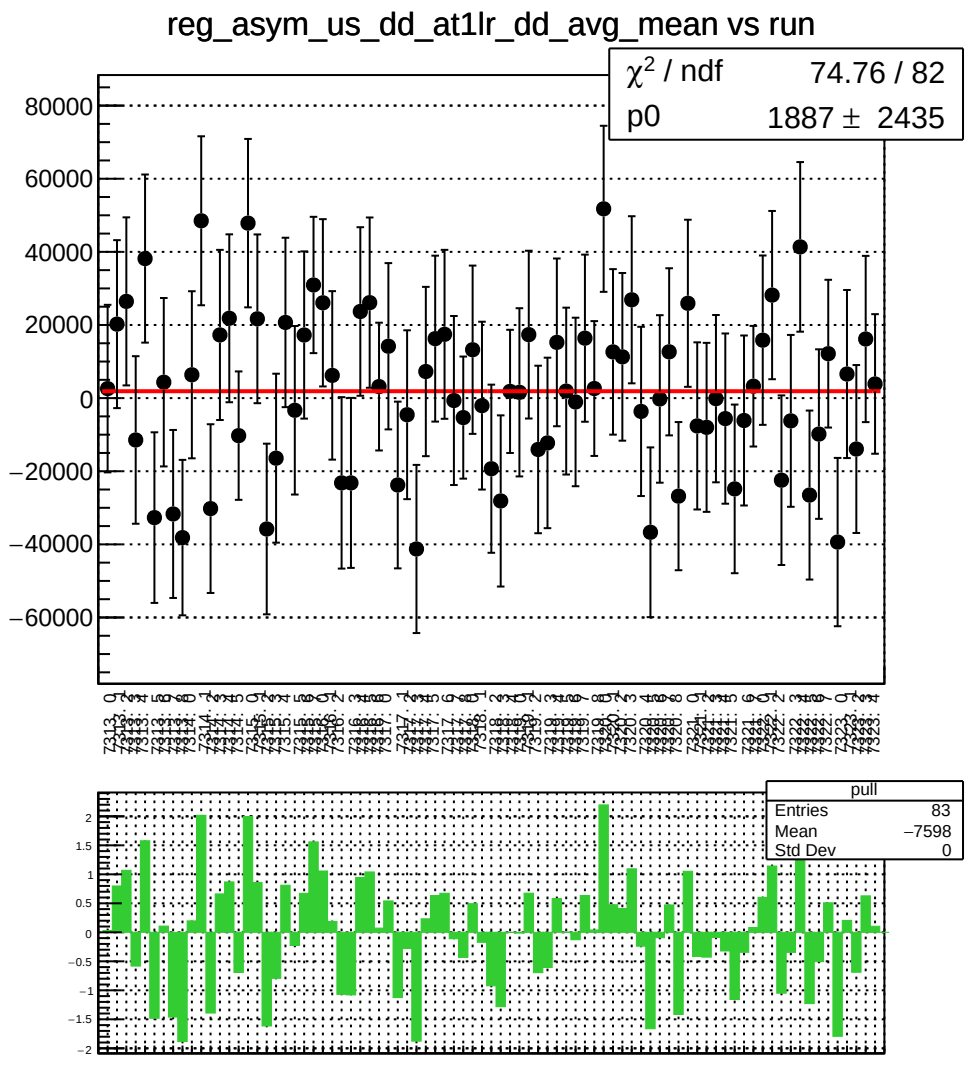

pull1D
Entries 83
Mean −0.004542
Std Dev 1.041

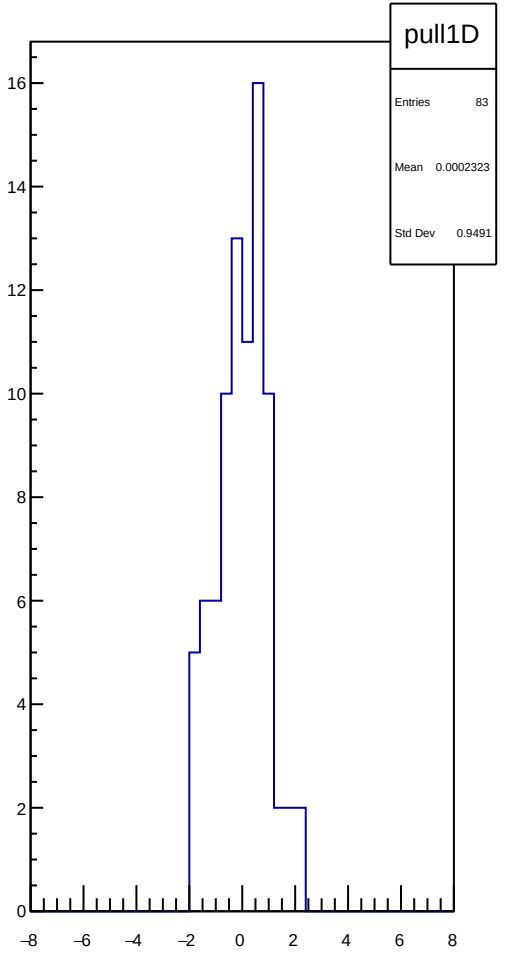

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.641e+04 / 82
p0 569 ± 0.4549
900
800
700
600
500
400

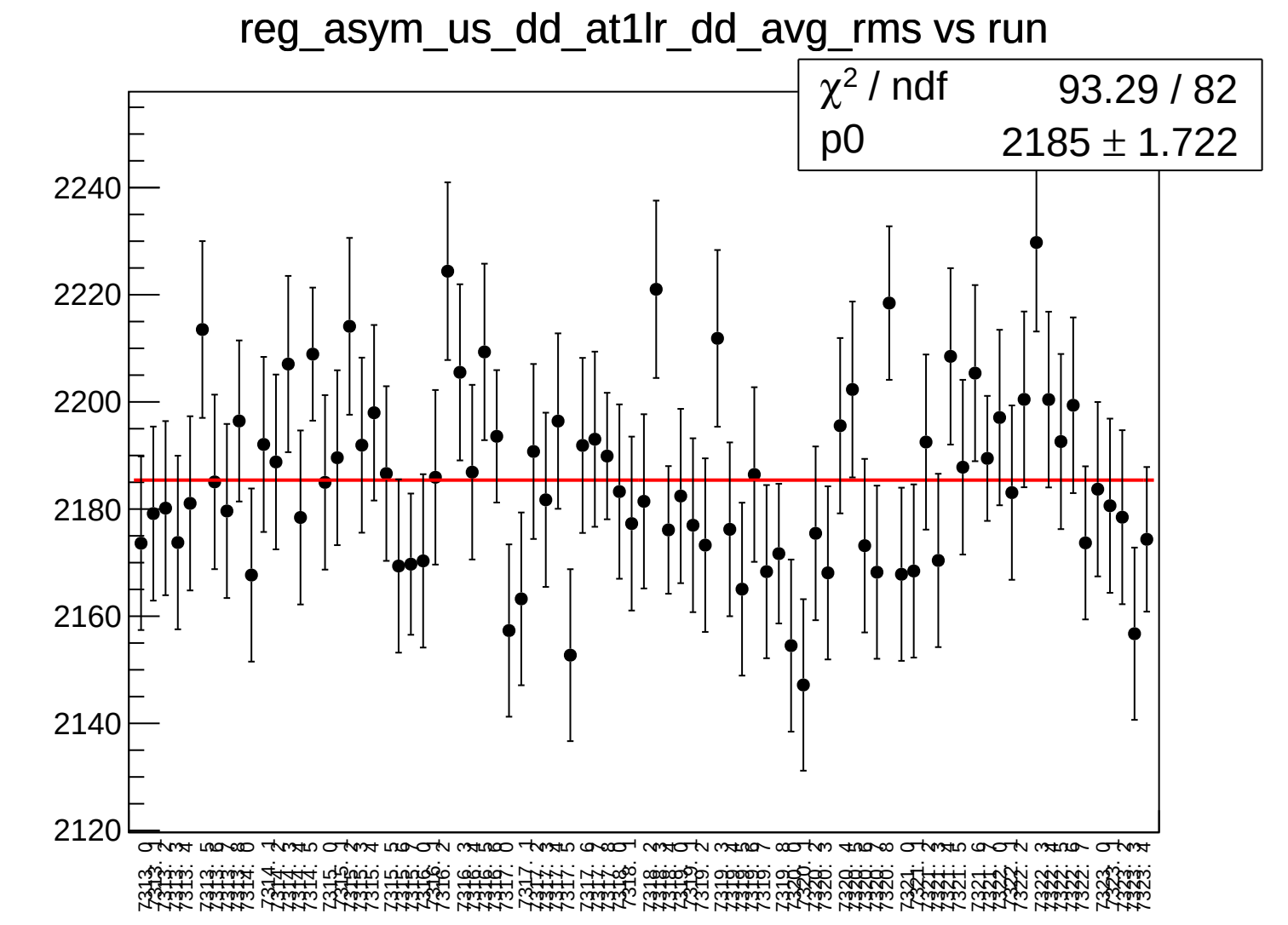

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.07 / 82
p0 3.798e−15 ± 6.06e−14
pull
Entries 83
Mean 49.46
Std Dev 76.45

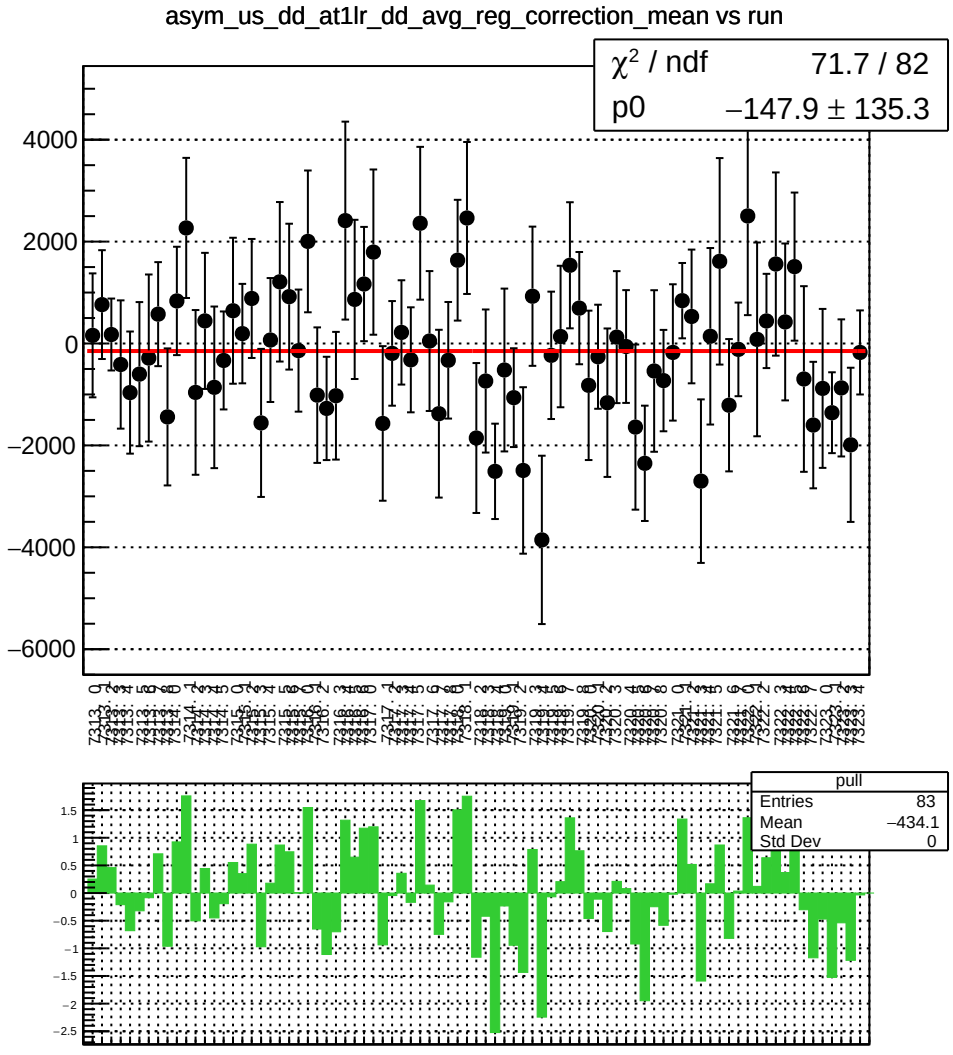

pull1D
Entries 83
Mean 0.01504
Std Dev 1.059

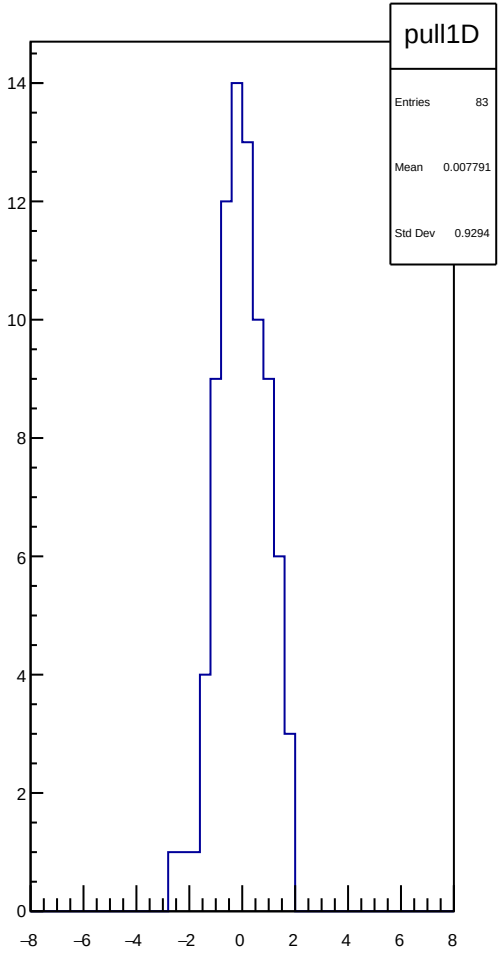

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.104e+05 / 82
p0 3.835e−11 ± 4.285e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

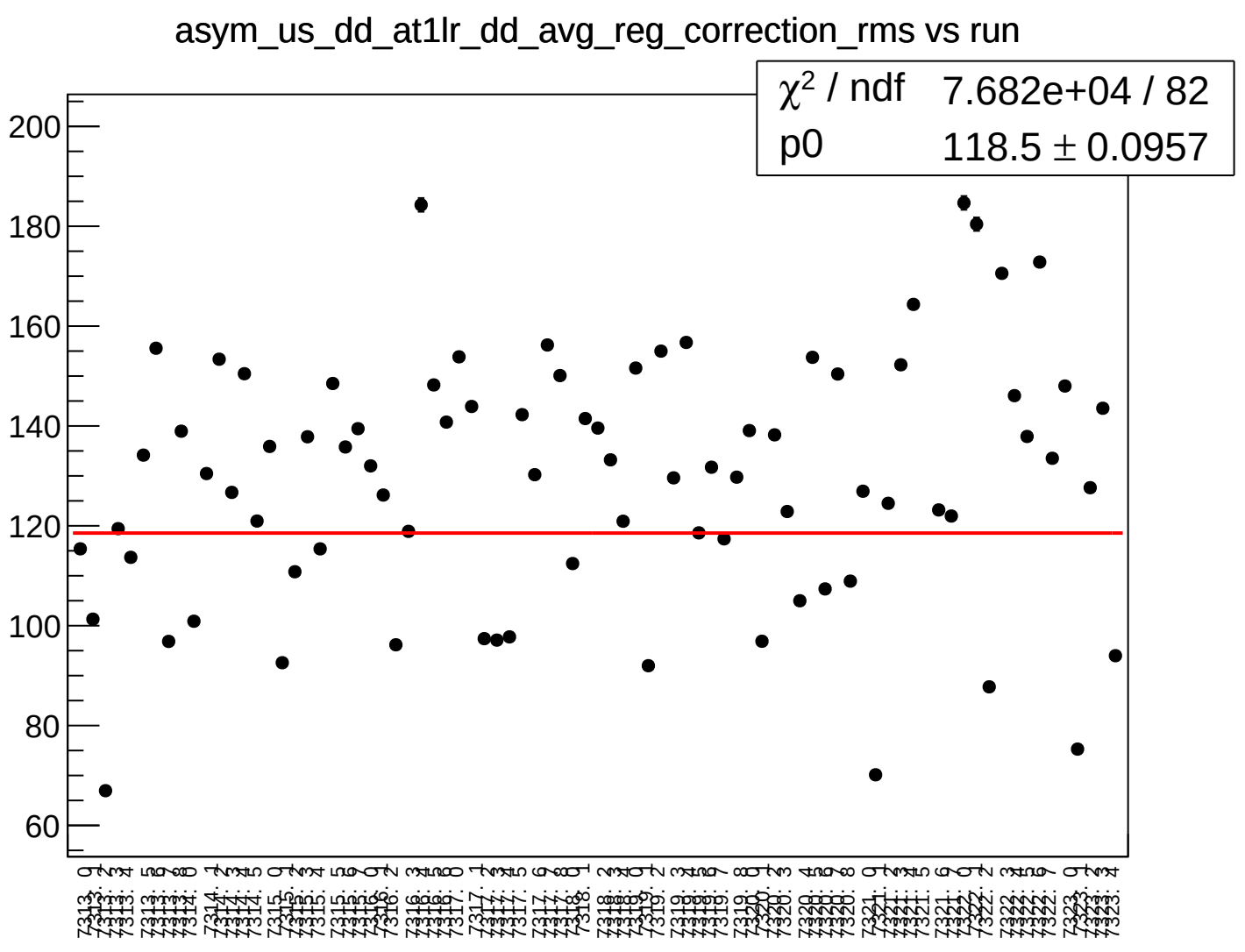

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 74.76 / 82
p0 1887 ± 2435
pull
Entries 83
Mean −7598
Std Dev 0

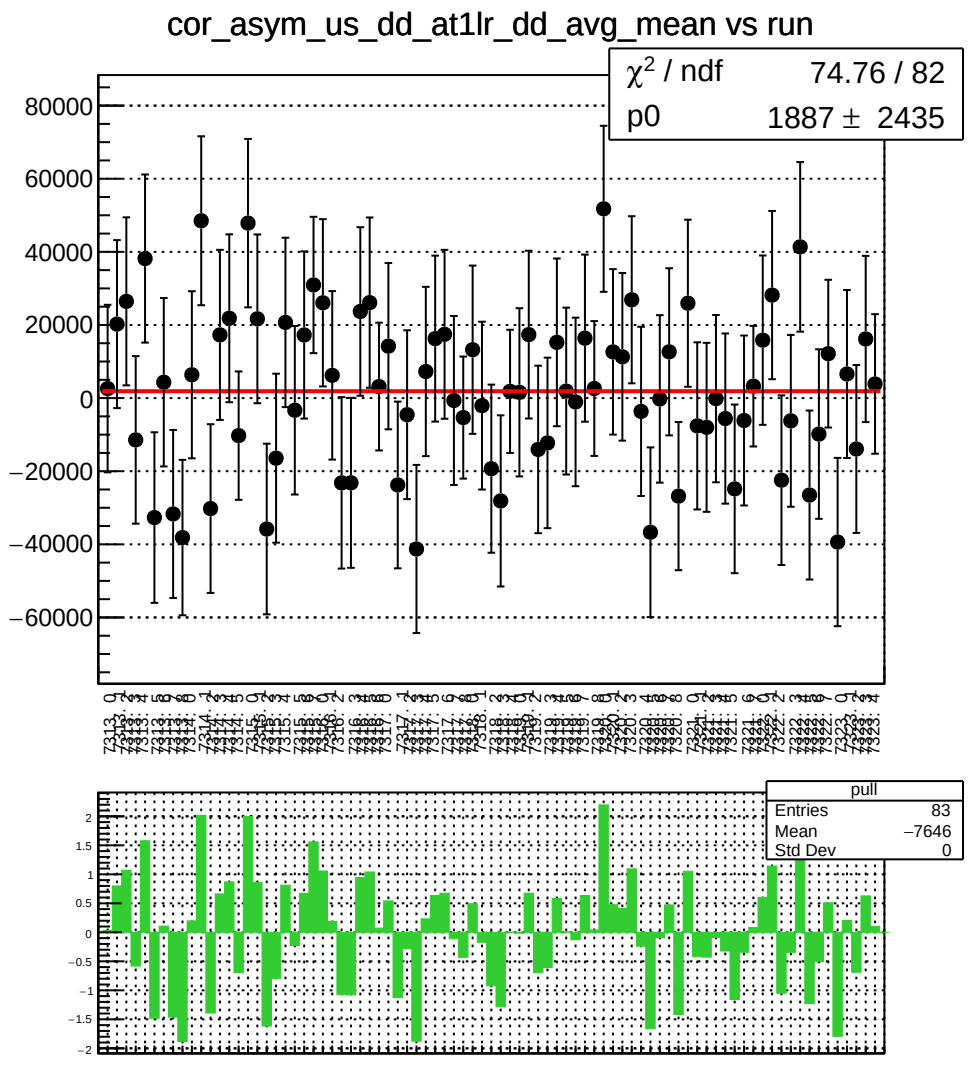

pull1D
Entries 83
Mean 0.0002323
Std Dev 0.9491

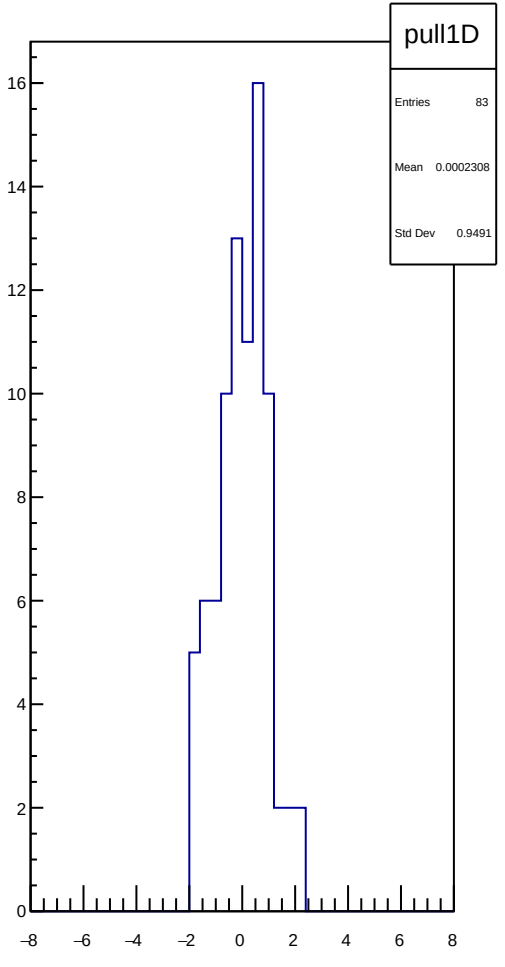

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 93.29 / 82
p0 2185 ± 1.722
2240
2220
2200
2180
2160
2140
2120

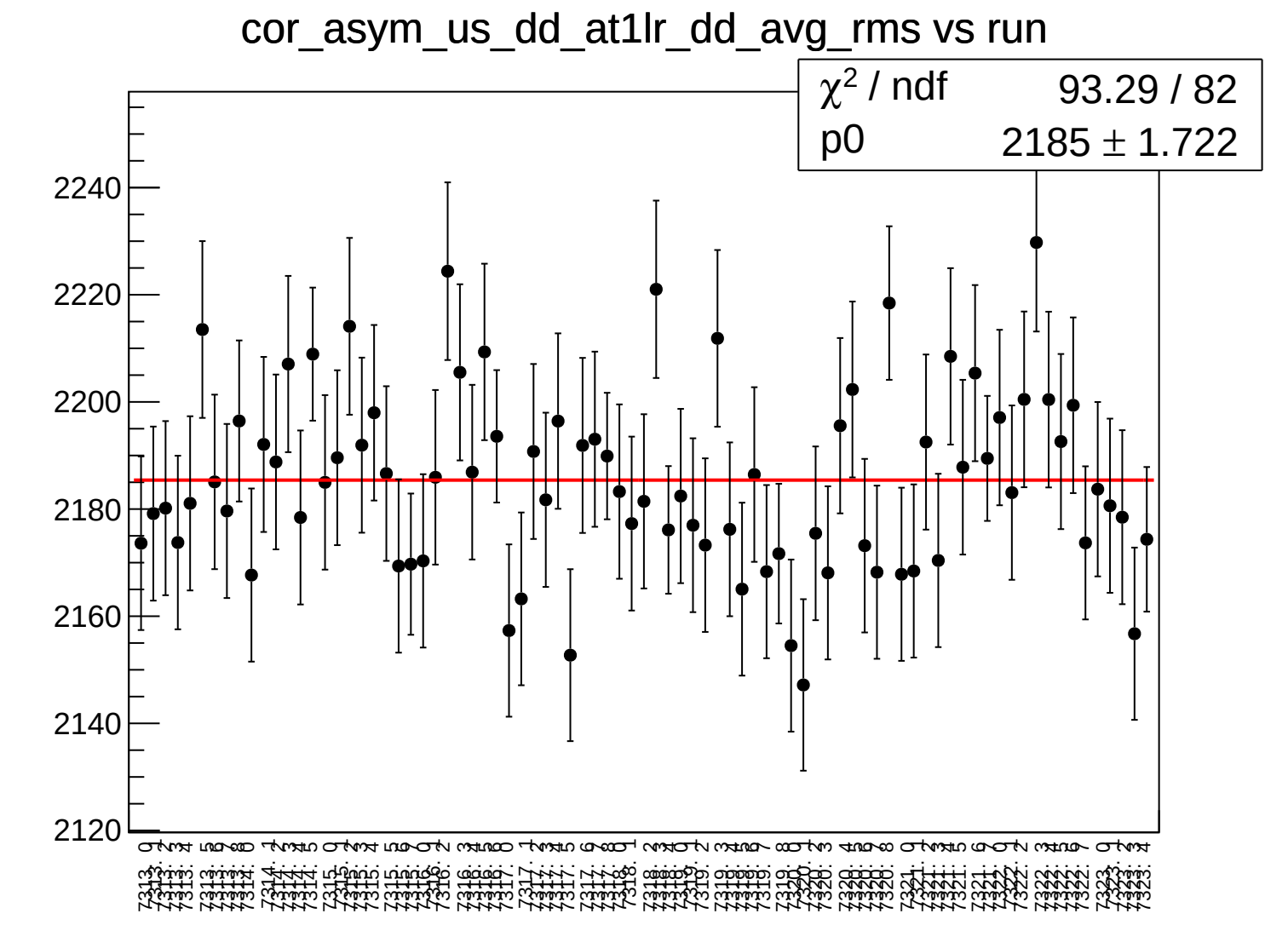

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 71.7 / 82
p0 −147.9 ± 135.3
pull
Entries 83
Mean −434.1
Std Dev 0

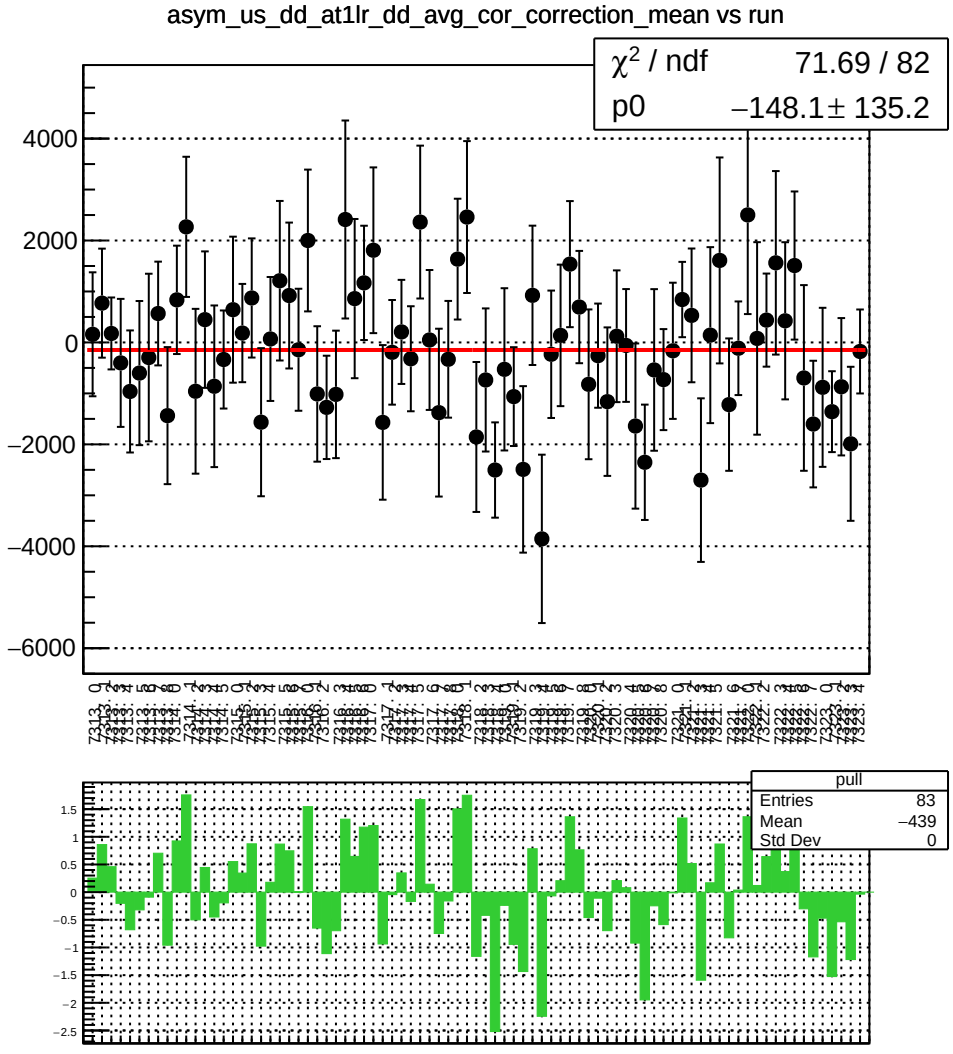

pull1D
Entries 83
Mean 0.007791
Std Dev 0.9294

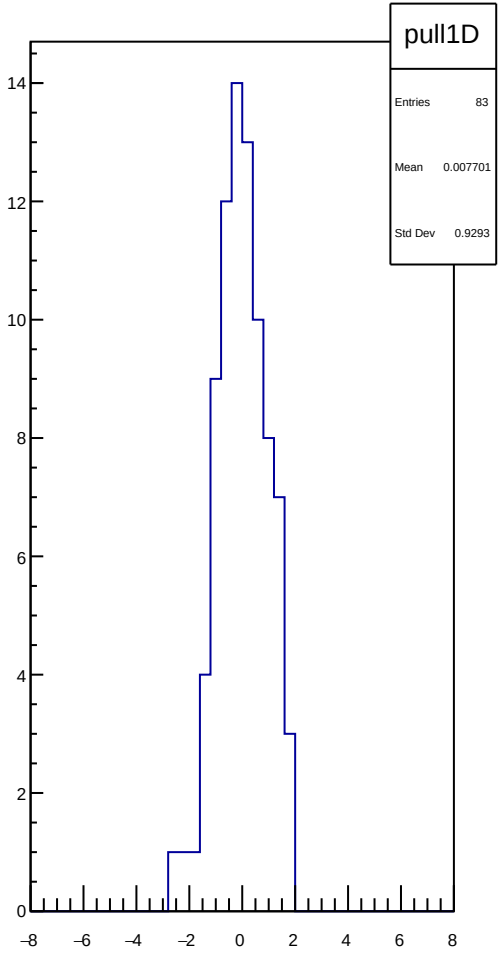

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7.682e+04 / 82
p0 118.5 ± 0.0957
200
180
160
140
120
100
80
60

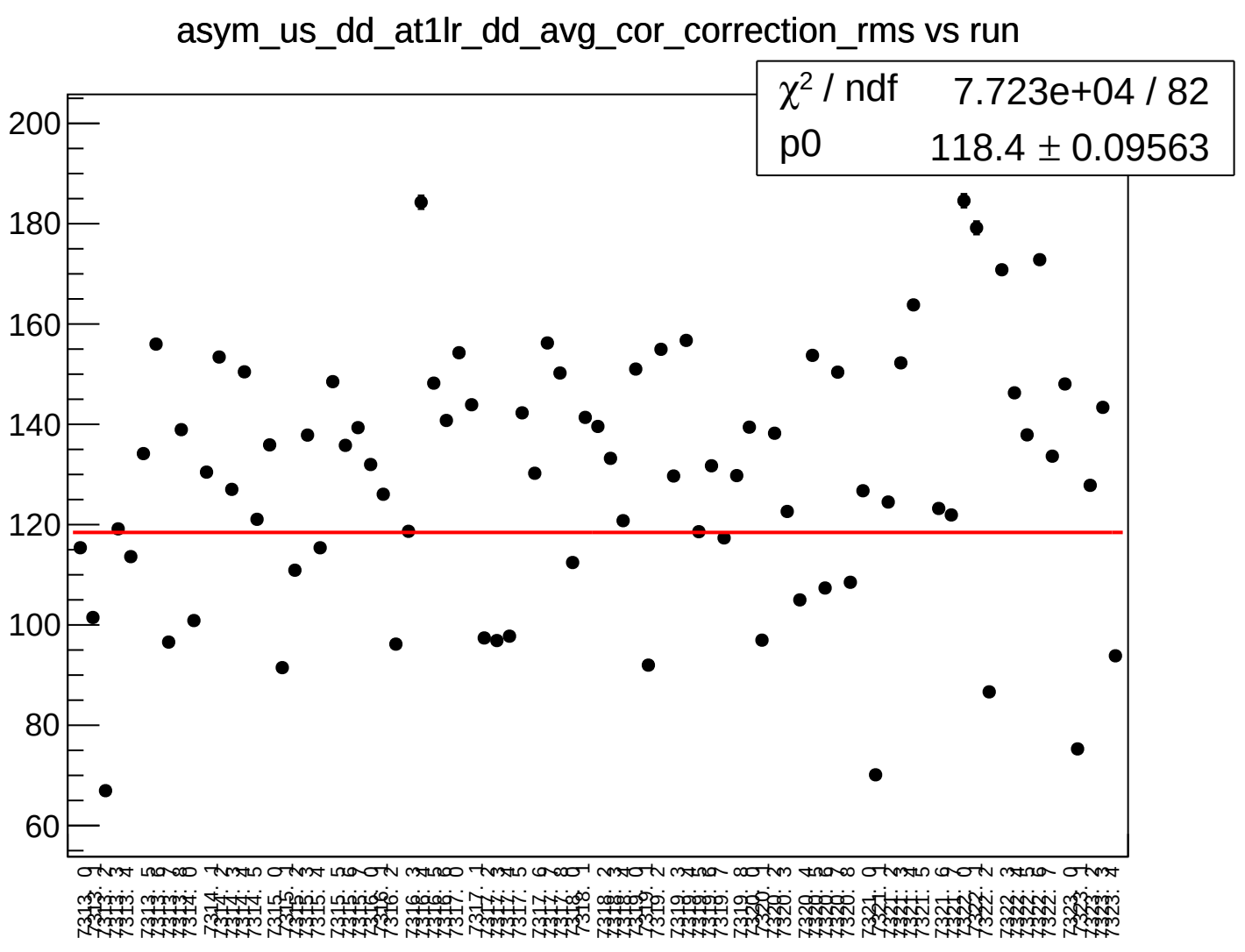

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 74.76 / 82
p0 1887 ± 2435
pull
Entries 83
Mean −7646
Std Dev 0

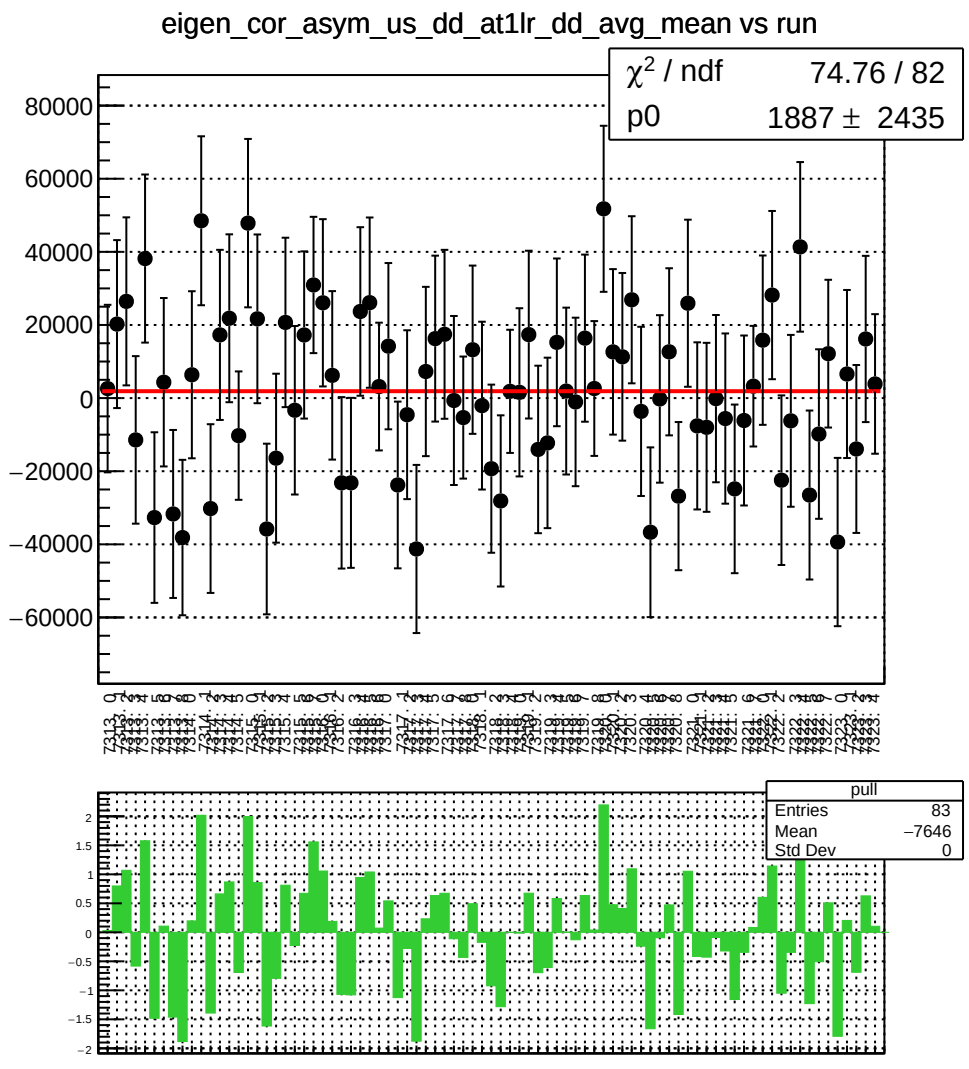

pull1D
Entries 83
Mean 0.0002308
Std Dev 0.9491

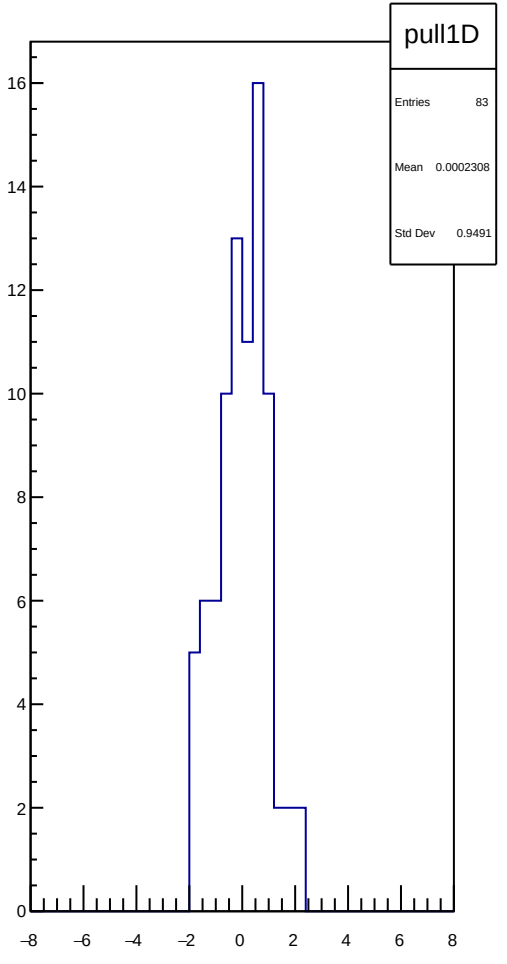

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 93.29 / 82
p0 2185 ± 1.722
2240
2220
2200
2180
2160
2140
2120

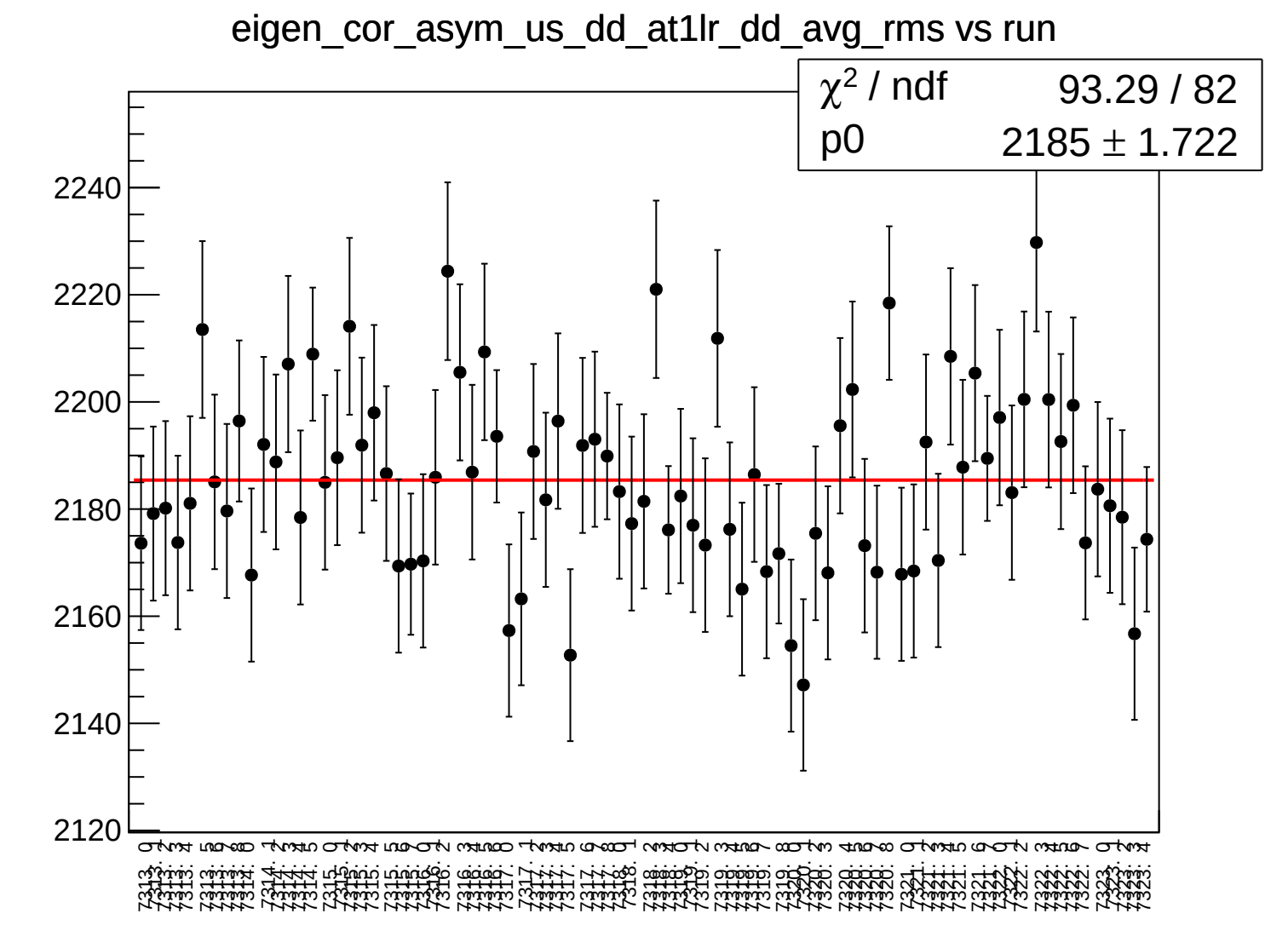

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 71.69 / 82
p0 −148.1± 135.2
pull
Entries 83
Mean −439
Std Dev 0

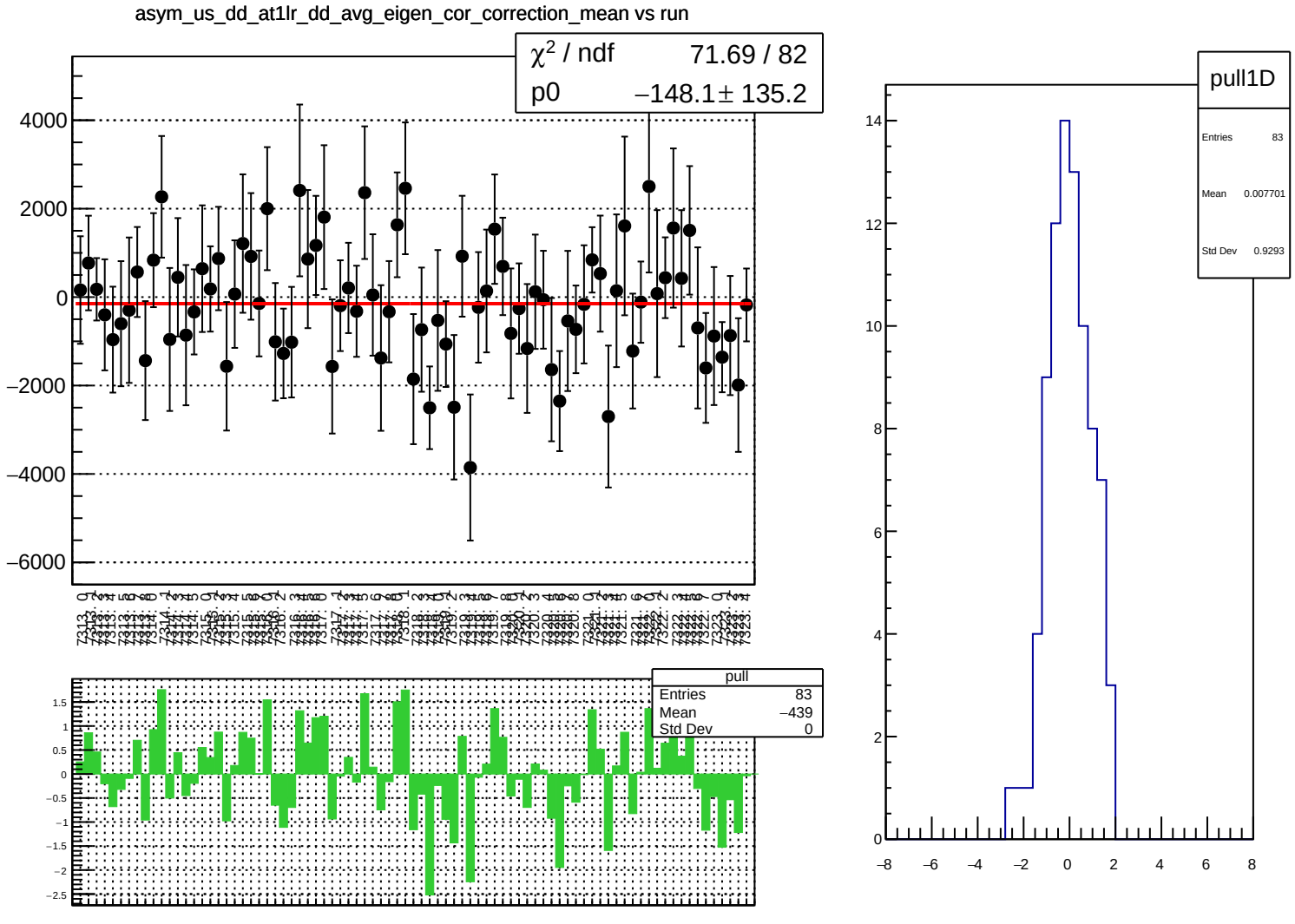

pull1D
Entries 83
Mean 0.007701
Std Dev 0.9293

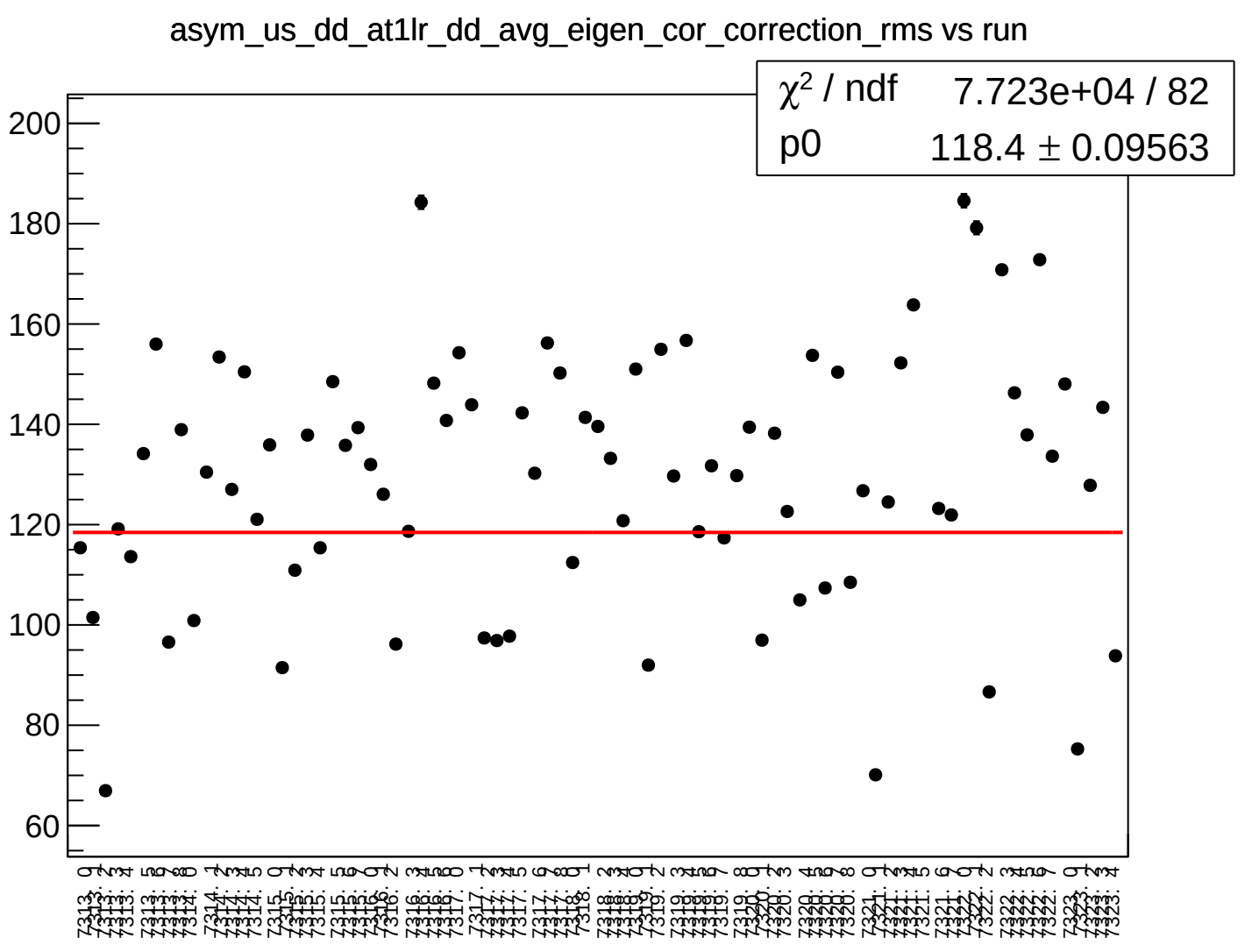

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7.723e+04 / 82
p0 118.4 ± 0.09563
200
180
160
140
120
100
80
60

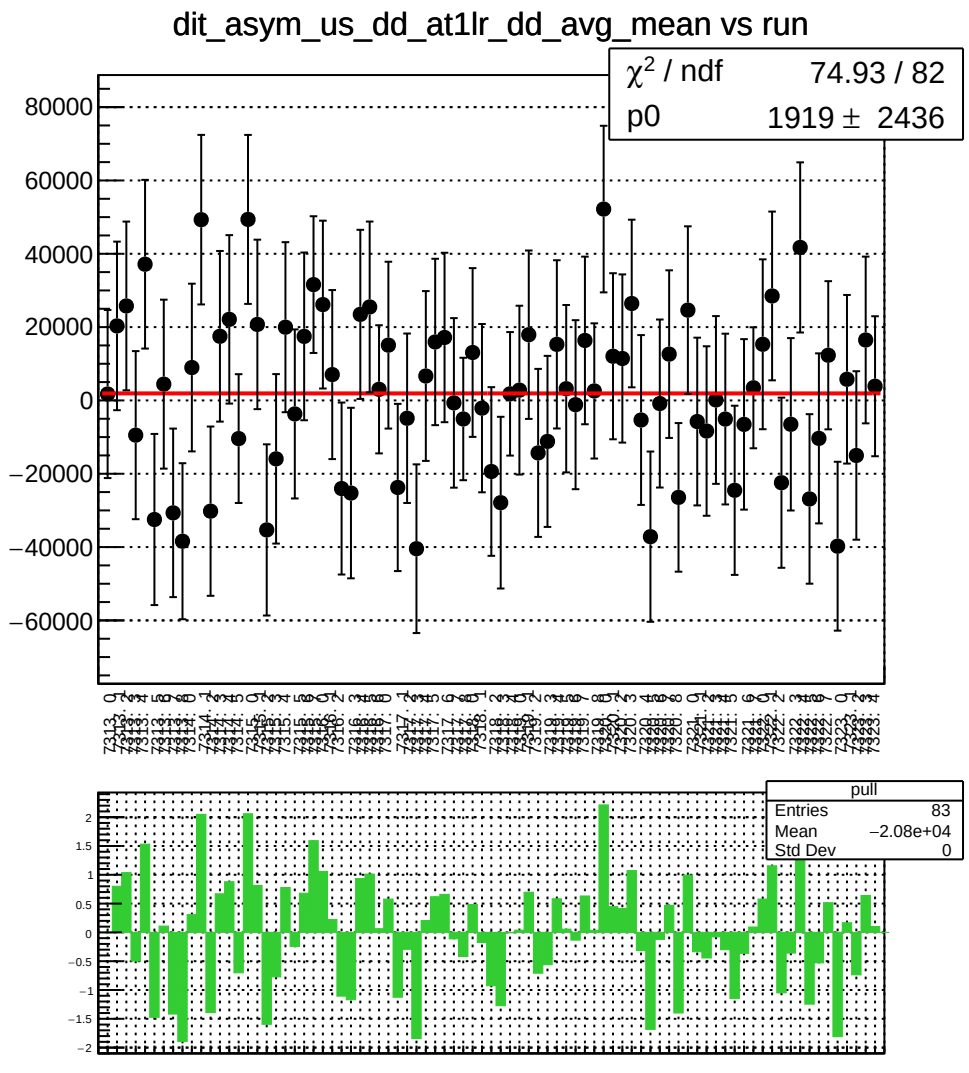

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 74.76 / 82
p0 1887 ± 2435
pull
Entries 83
Mean −7646
Std Dev 0

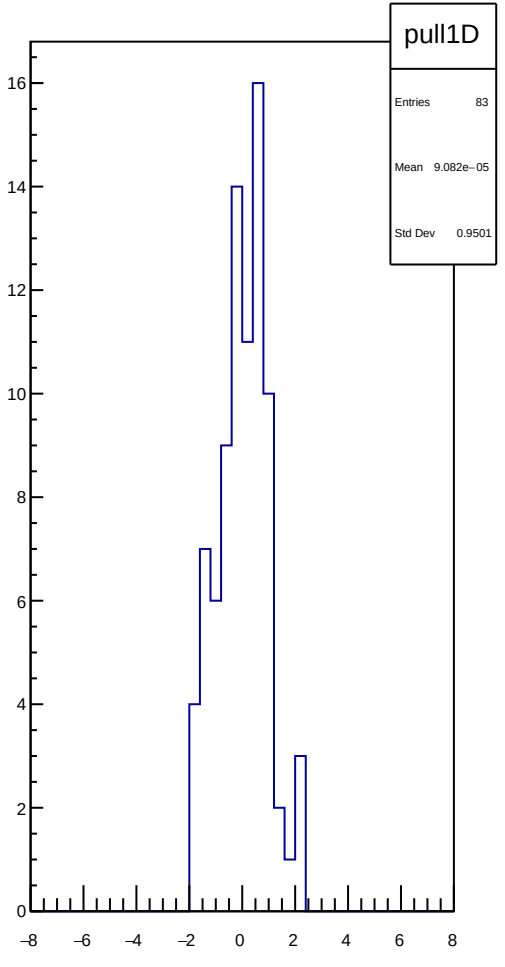

pull1D
Entries 83
Mean 0.0002308
Std Dev 0.9491

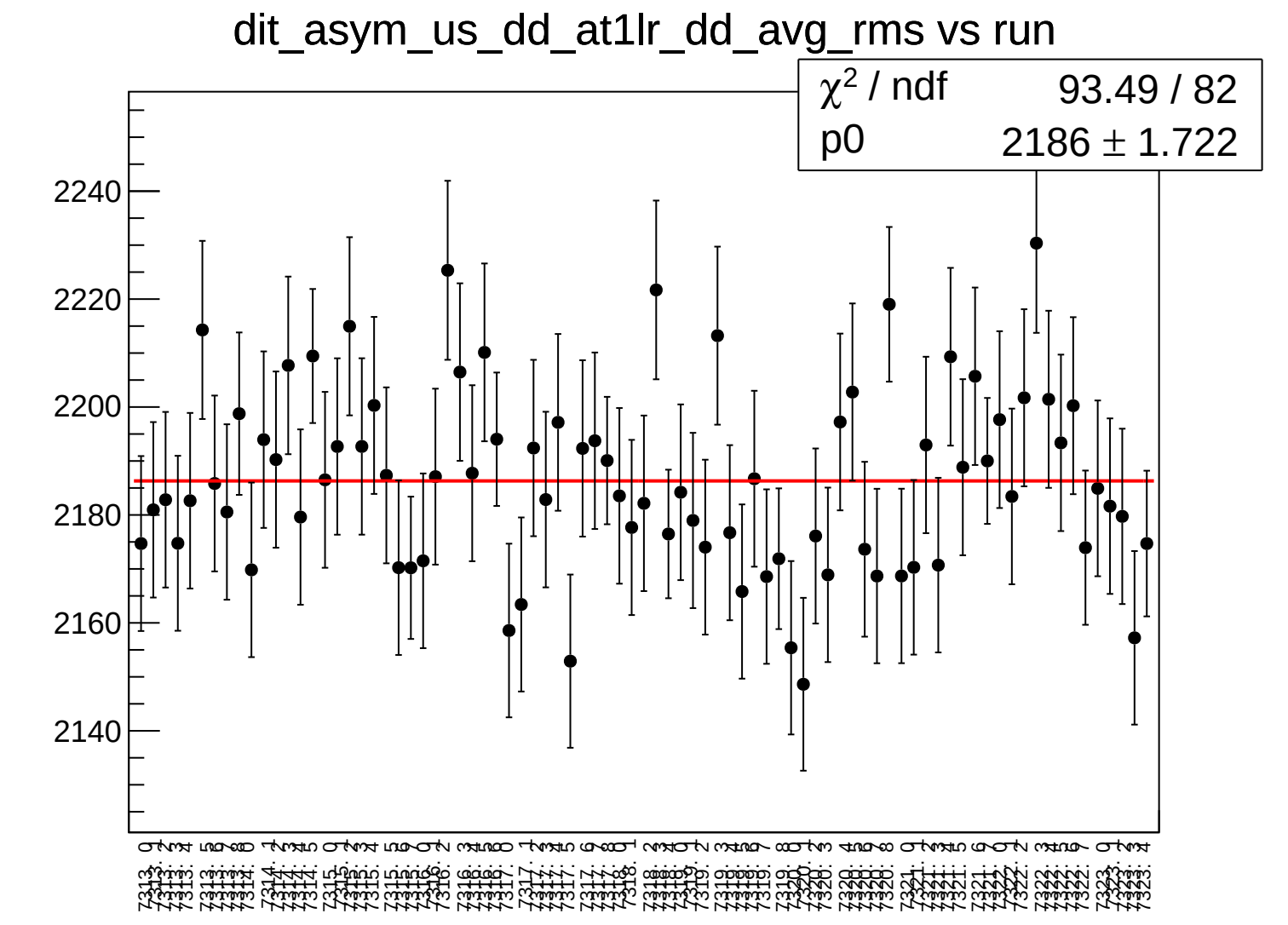

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 93.29 / 82
p0 2185 ± 1.722
2240
2220
2200
2180
2160
2140
2120

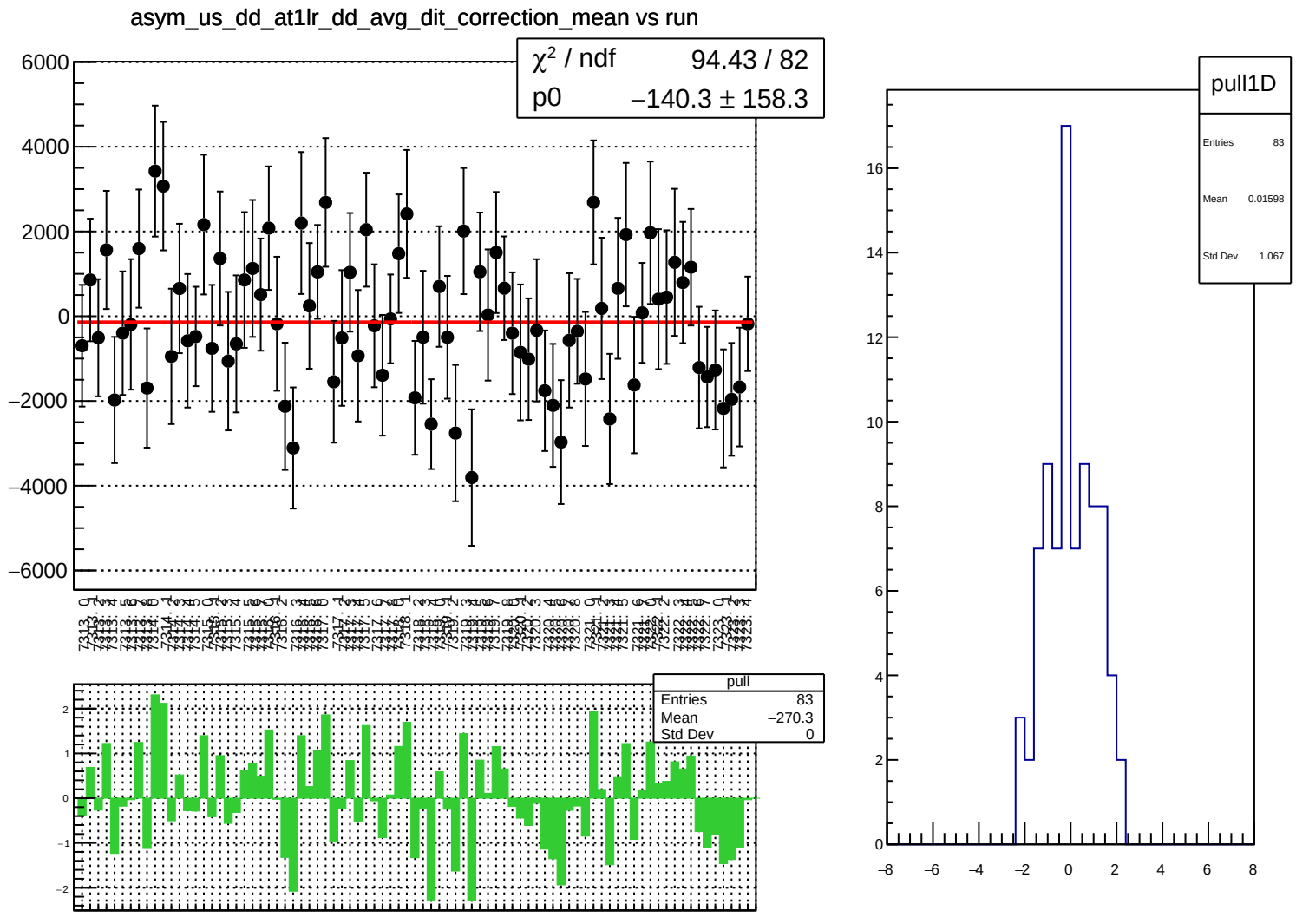

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.69 / 82
p0 −148.1± 135.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −439
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 83
Mean 0.007701
Std Dev 0.9293
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

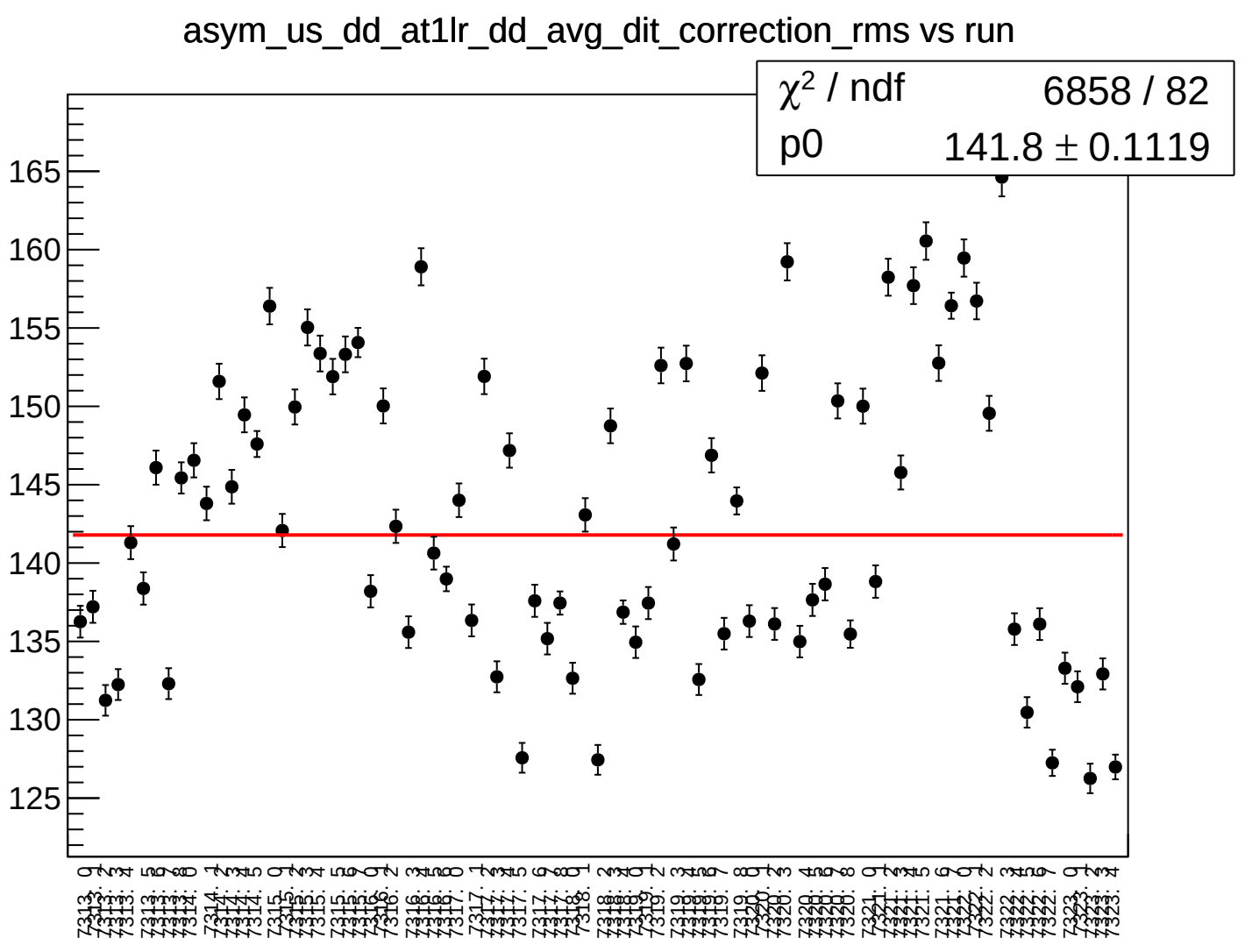

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.723e+04 / 82
p0 118.4 ± 0.09563
200
180
160
140
120
100
80
60

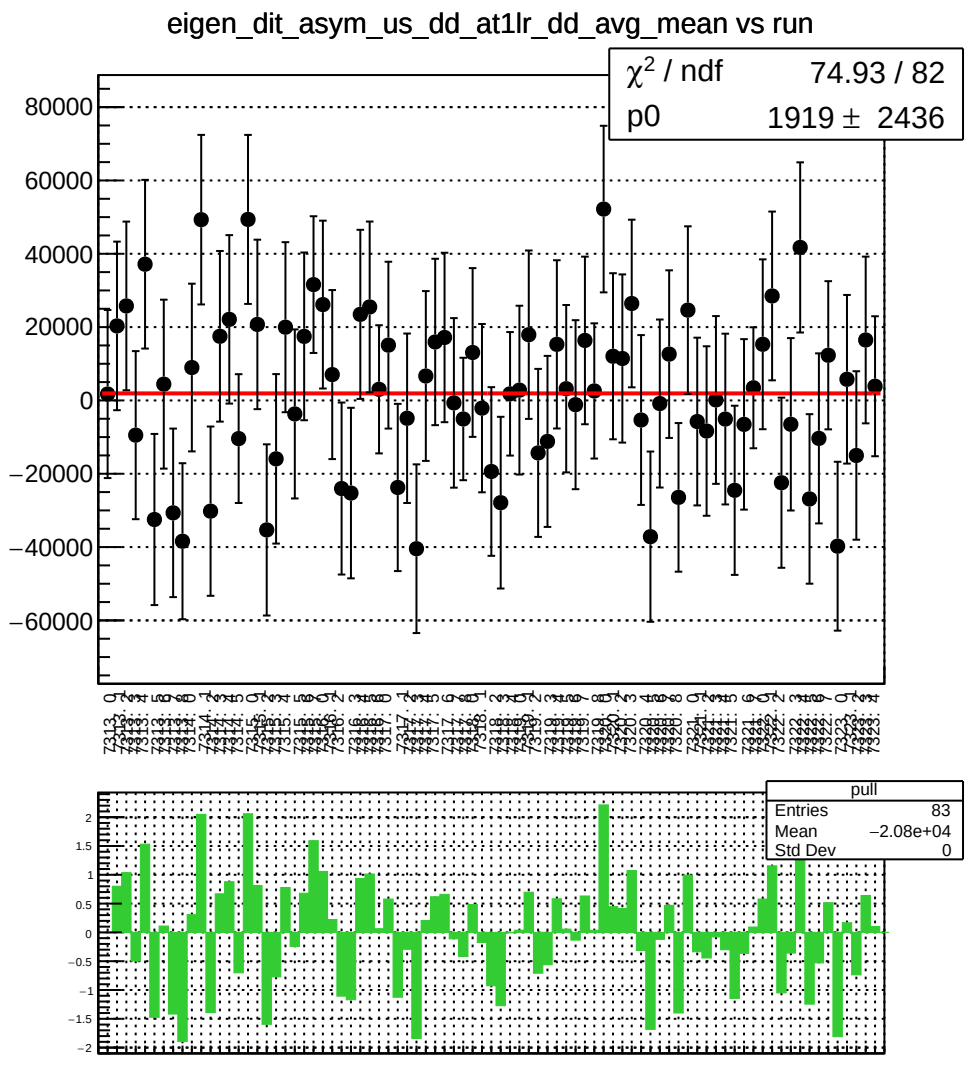

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 74.93 / 82
p0 1919 ± 2436
pull
Entries 83
Mean −2.08e+04
Std Dev 0

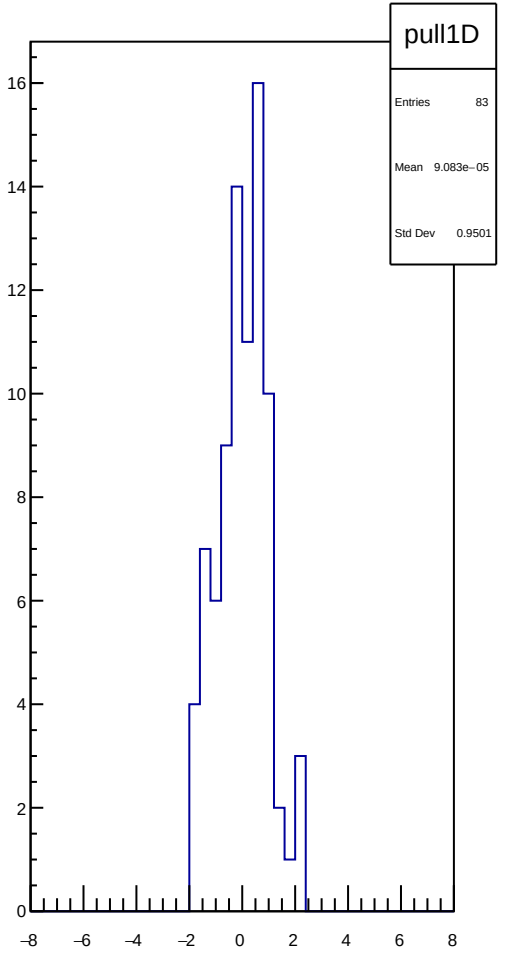

pull1D
Entries 83
Mean 9.082e−05
Std Dev 0.9501

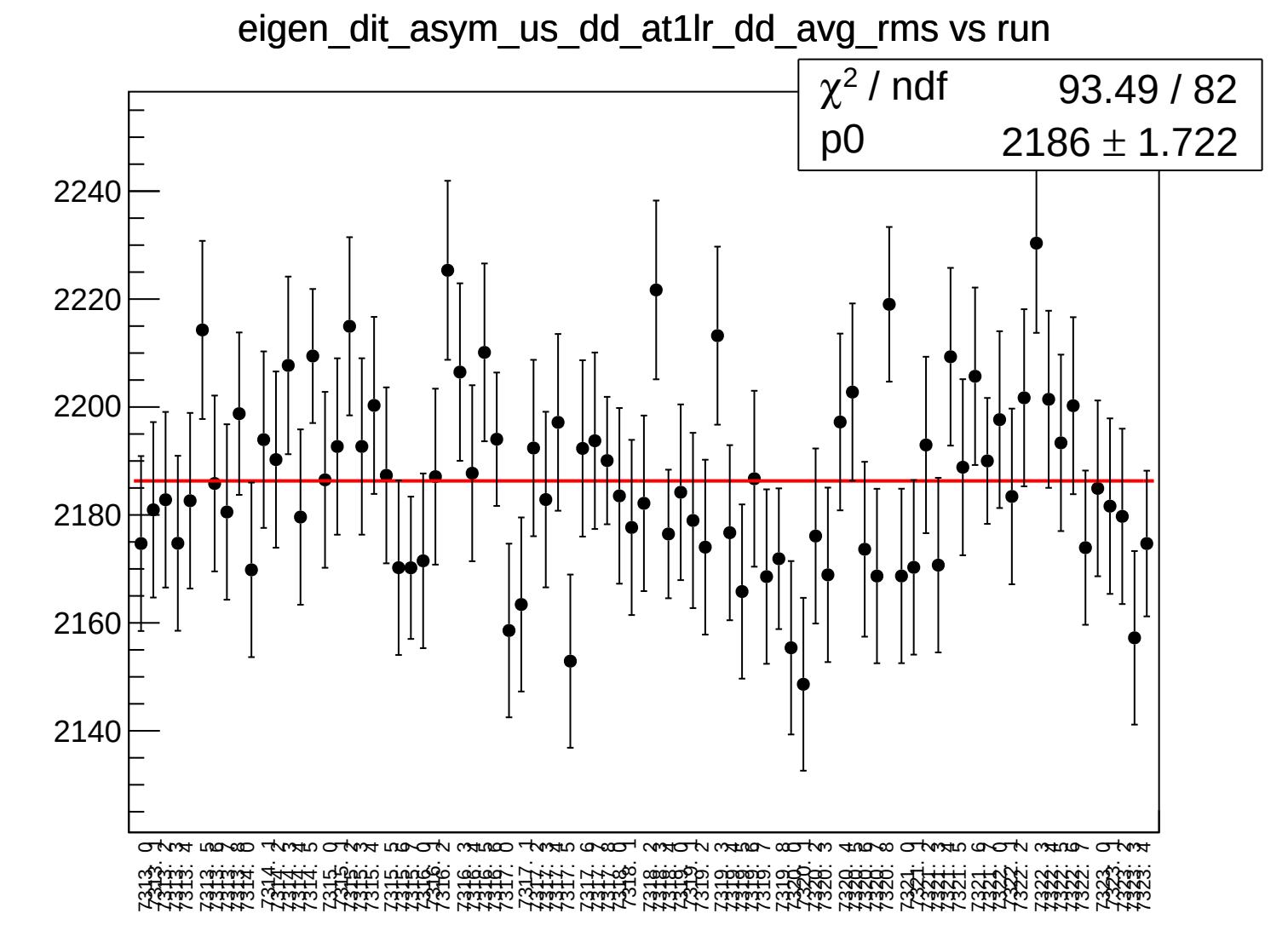

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 93.49 / 82
p0 2186 ± 1.722
2240
2220
2200
2180
2160
2140

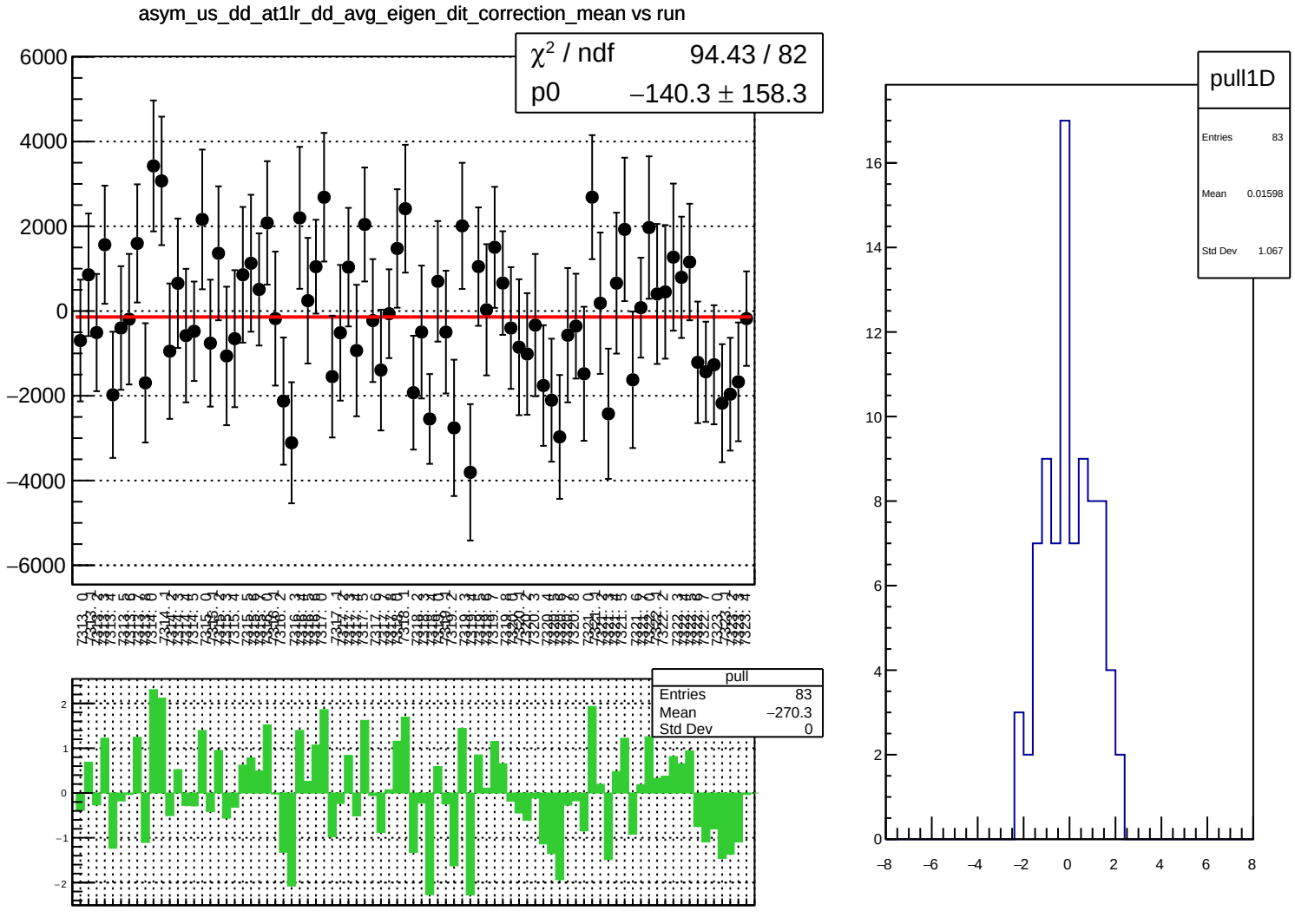

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 94.43 / 82
p0 −140.3 ± 158.3
pull
Entries 83
Mean −270.3
Std Dev 0
pull1D
Entries 83
Mean 0.01598
Std Dev 1.067

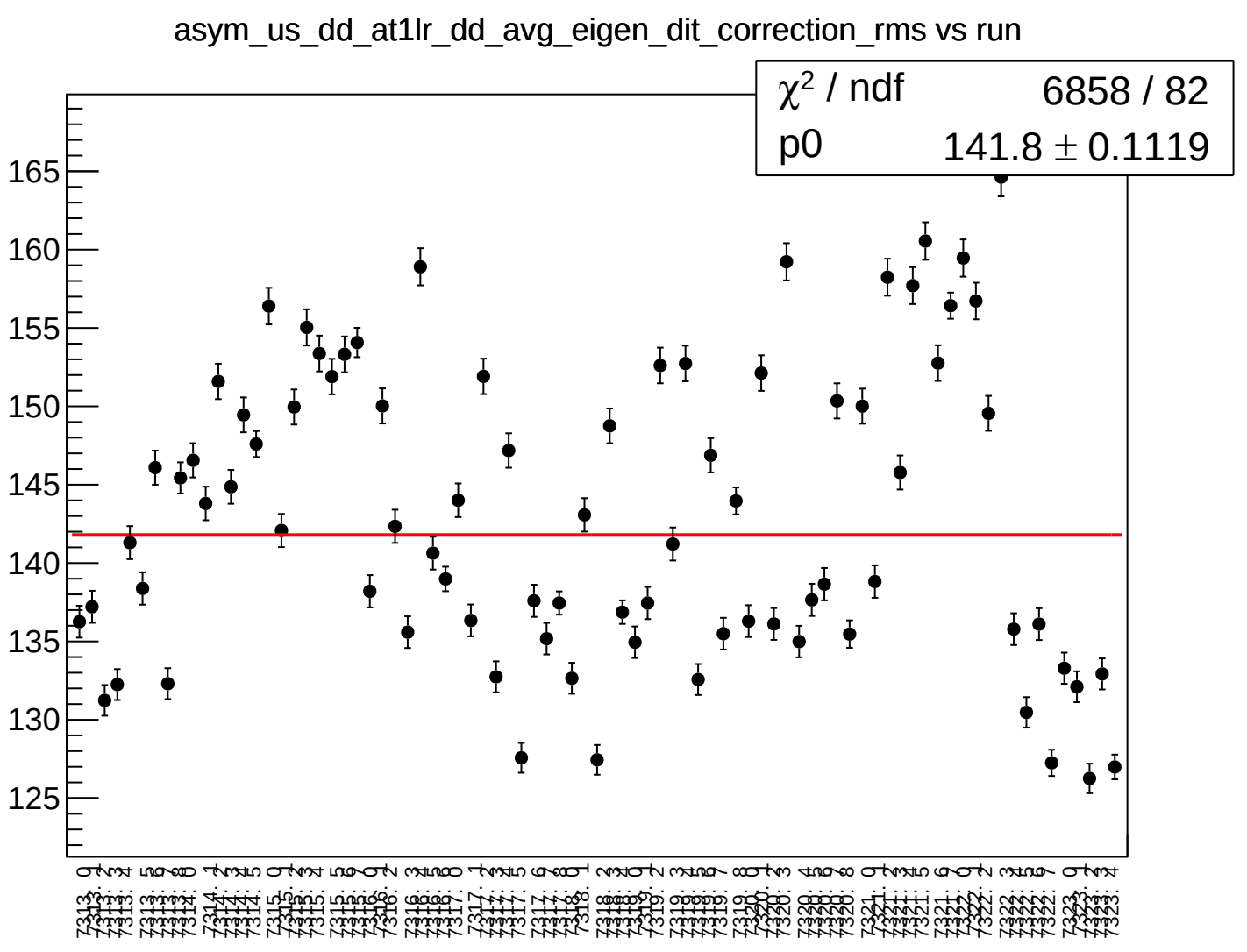

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6858 / 82
p0 141.8 ± 0.1119
165
160
155
150
145
140
135
130
125

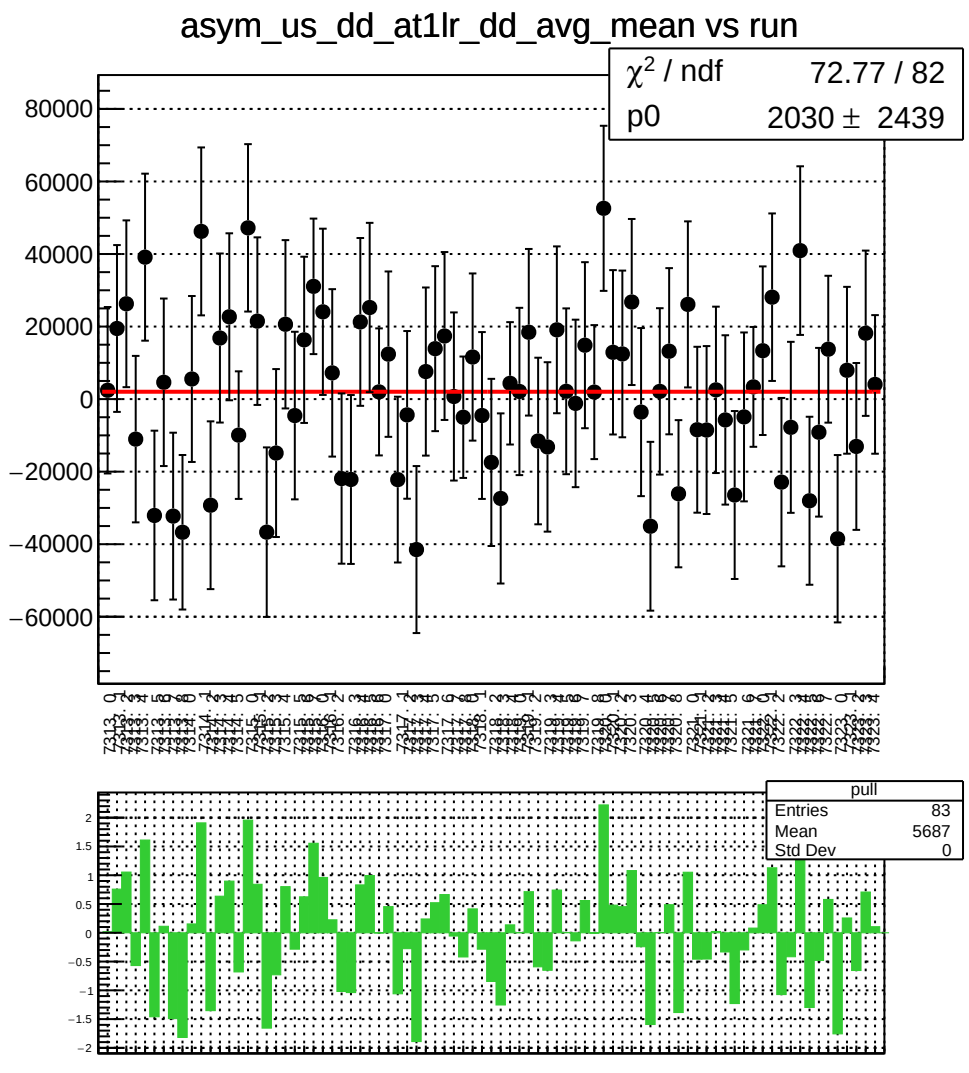

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 74.93 / 82
p0 1919 ± 2436
pull
Entries 83
Mean −2.08e+04
Std Dev 0

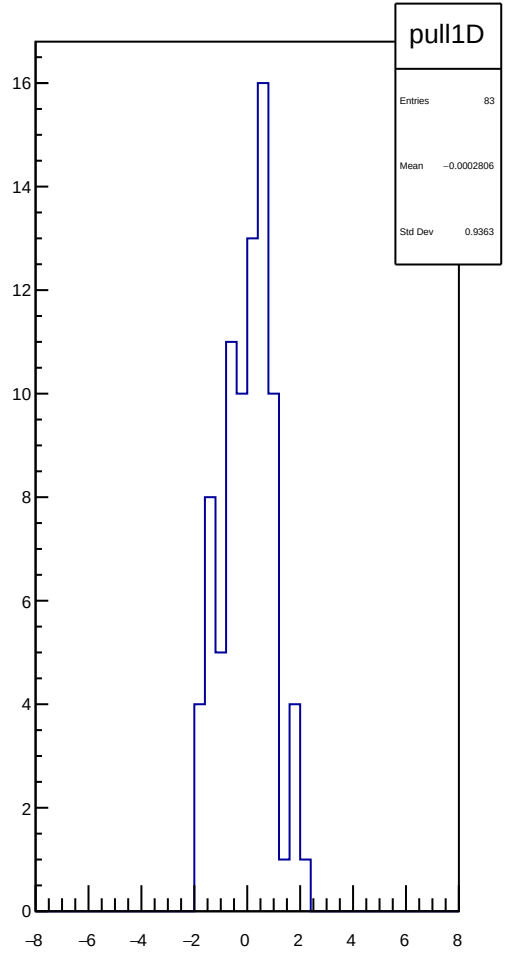

pull1D
Entries 83
Mean 9.083e−05
Std Dev 0.9501

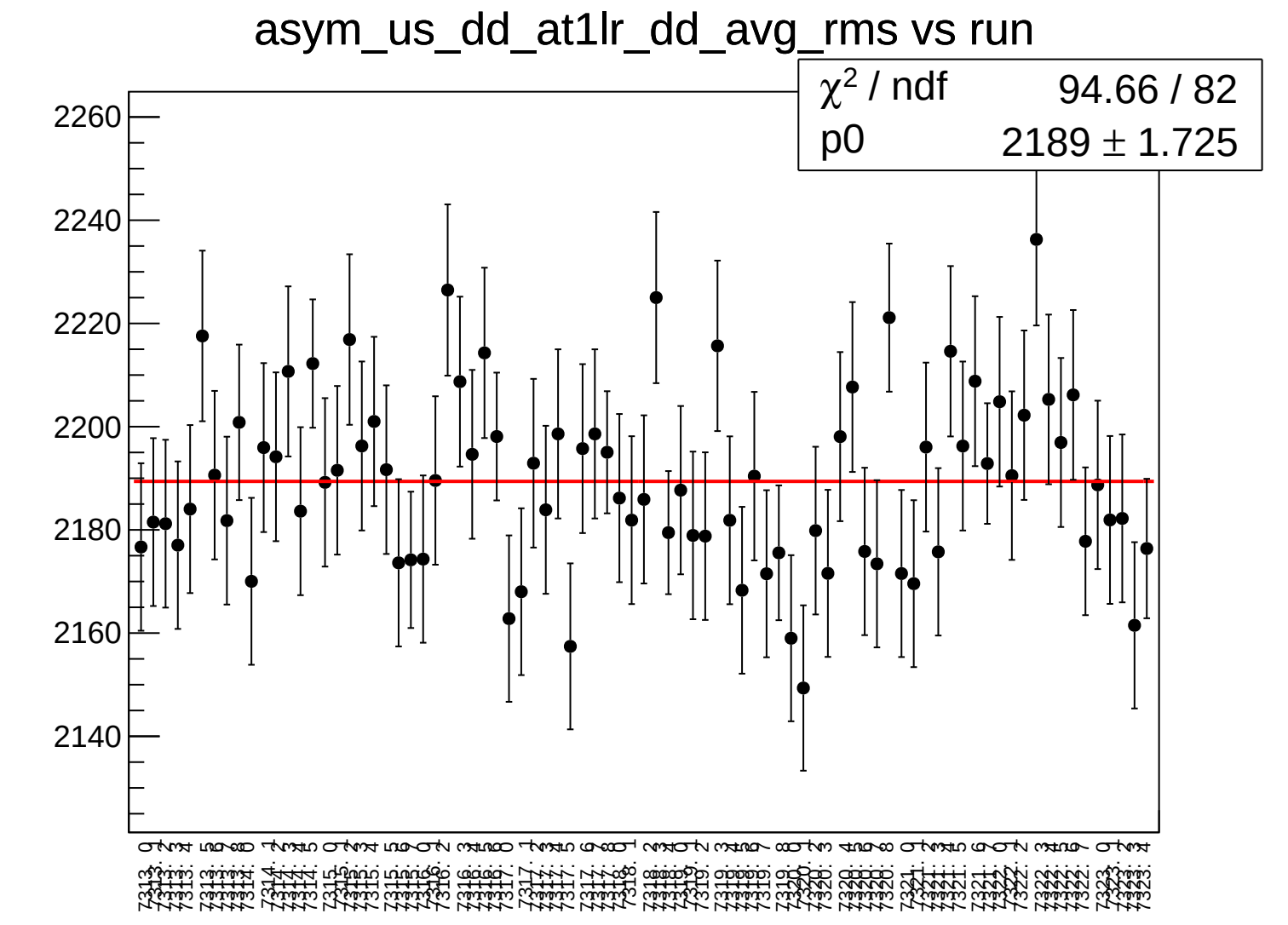

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 93.49 / 82
p0 2186 ± 1.722
2240
2220
2200
2180
2160
2140

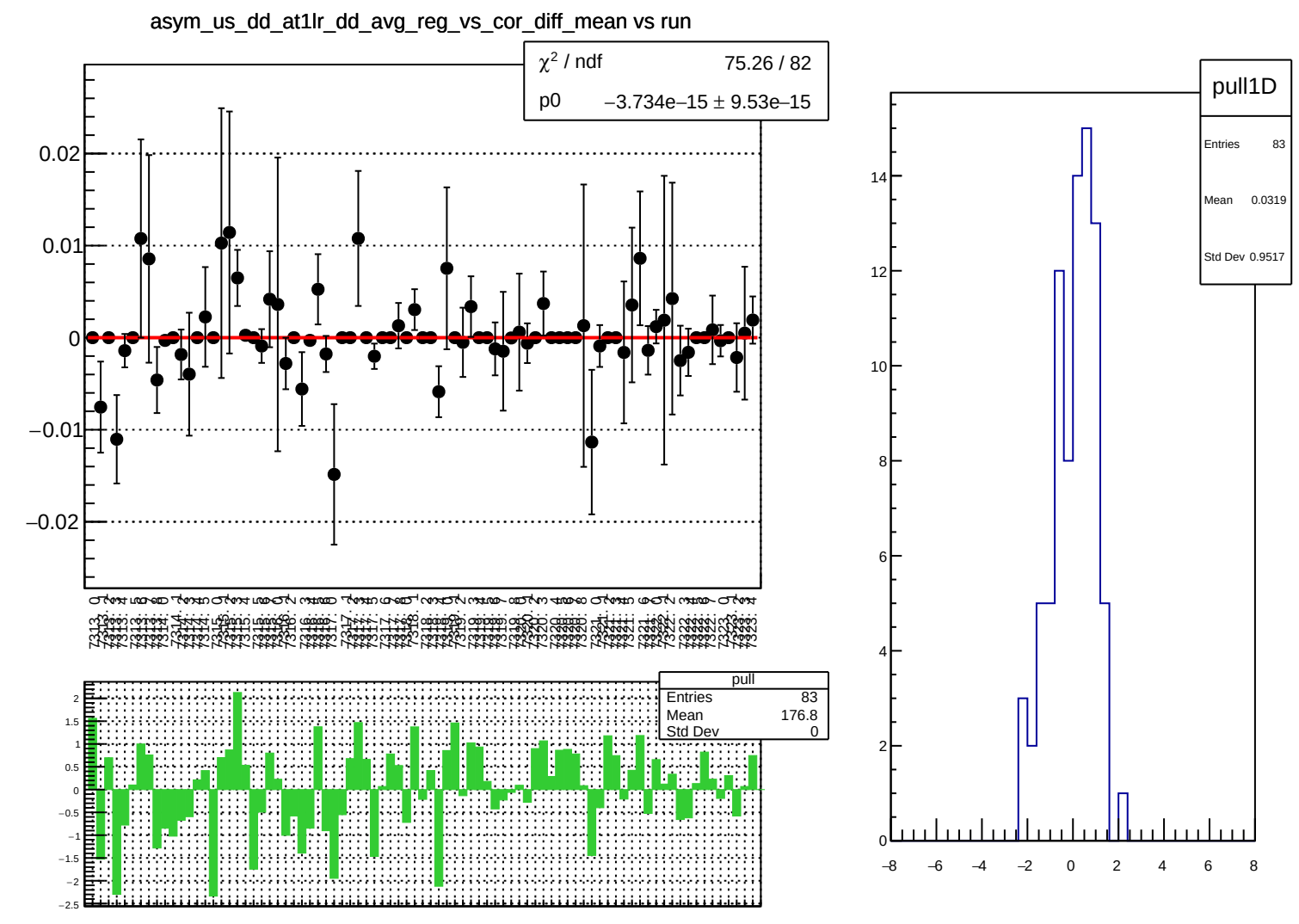

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.43 / 82
p0 −140.3 ± 158.3
pull
Entries 83
Mean −270.3
Std Dev 0
pull1D
Entries 83
Mean 0.01598
Std Dev 1.067

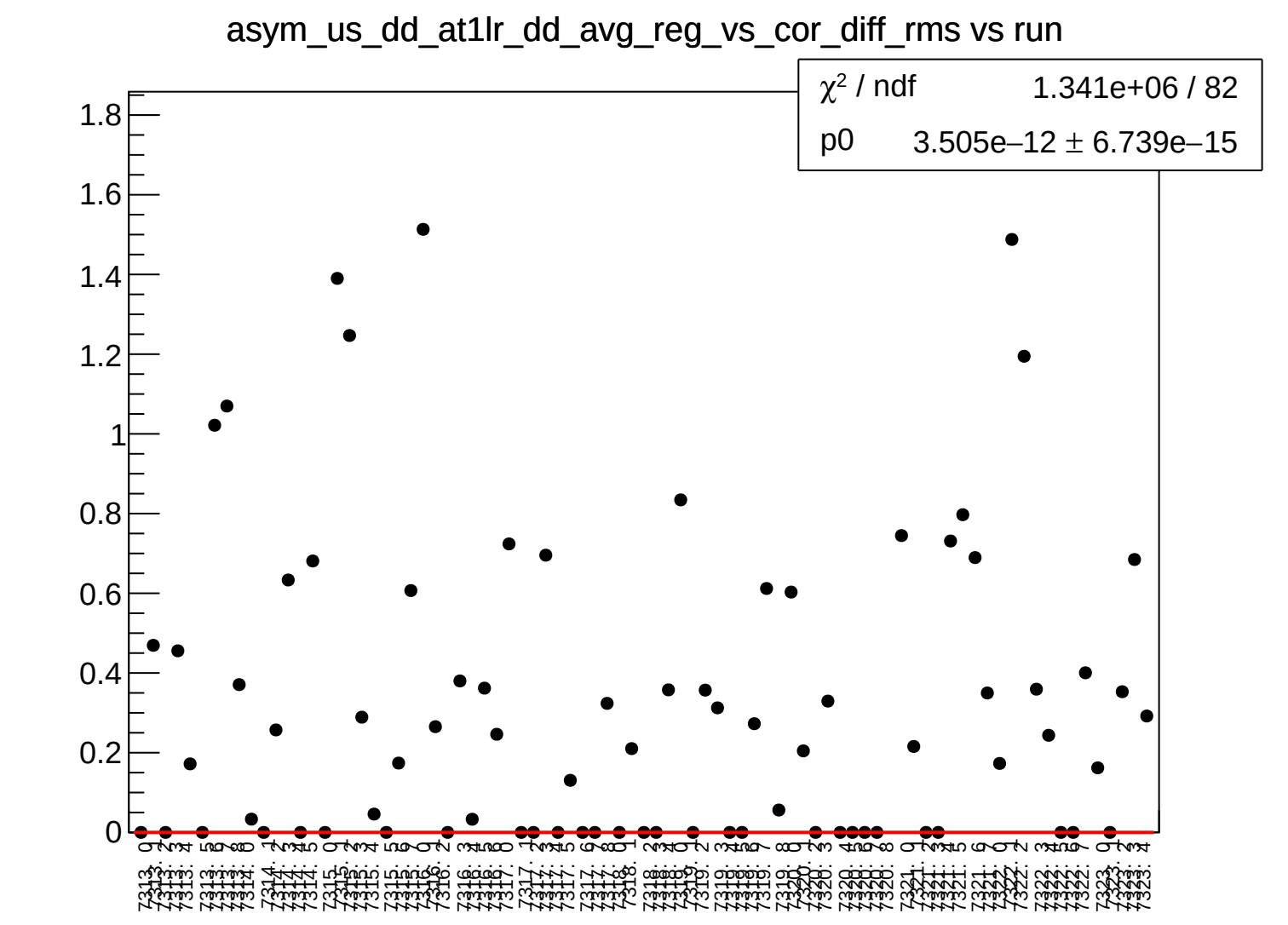

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6858 / 82
p0 141.8 ± 0.1119
165
160
155
150
145
140
135
130
125

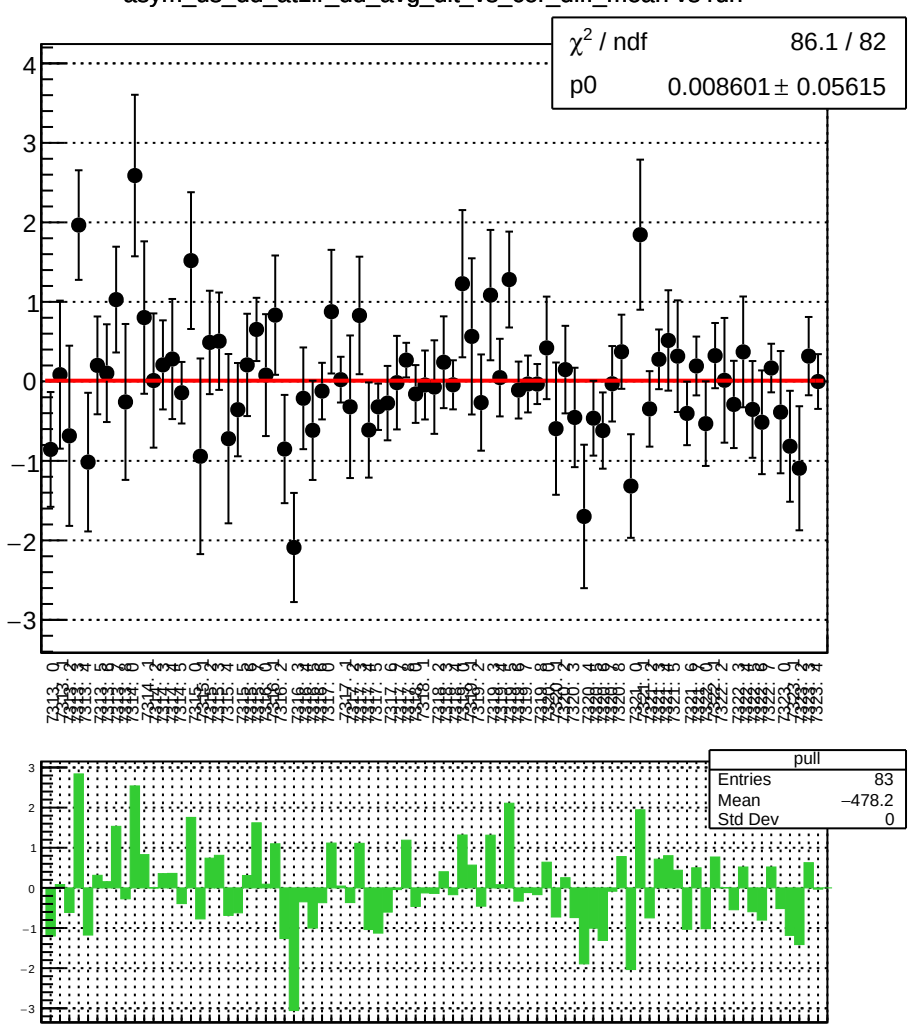

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 72.77 / 82
p0 2030 ± 2439
pull
Entries 83
Mean 5687
Std Dev 0

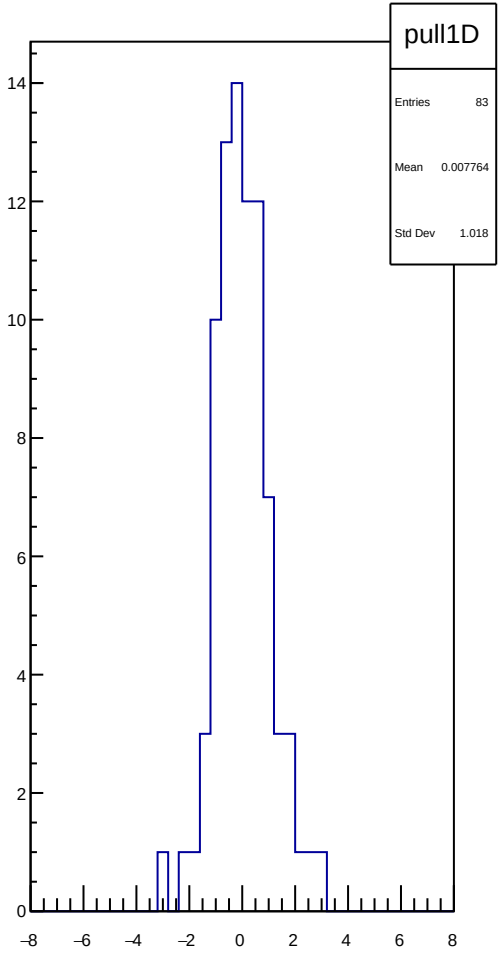

pull1D
Entries 83
Mean −0.0002806
Std Dev 0.9363

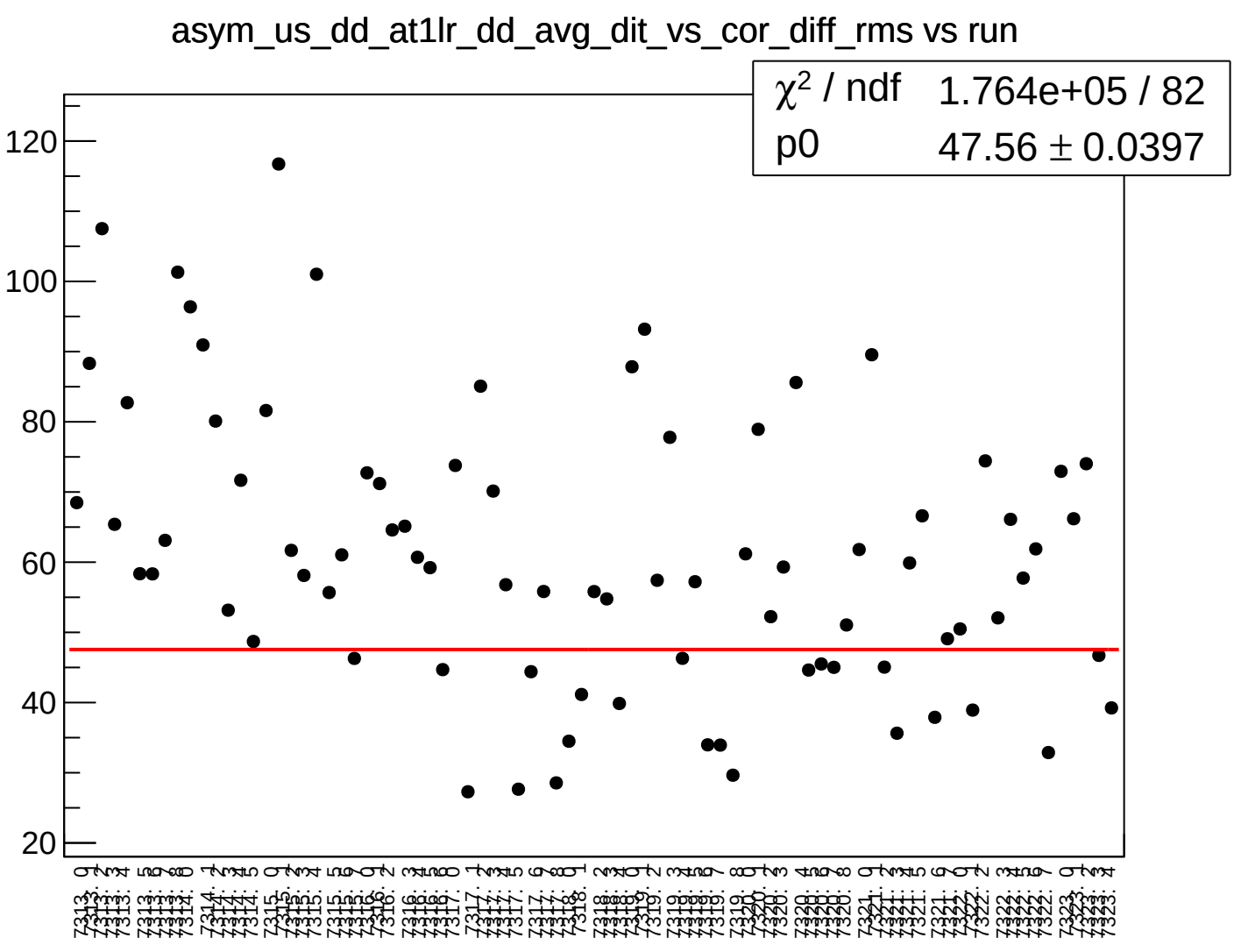

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.66 / 82
p0 2189 ± 1.725
2260
2240
2220
2200
2180
2160
2140

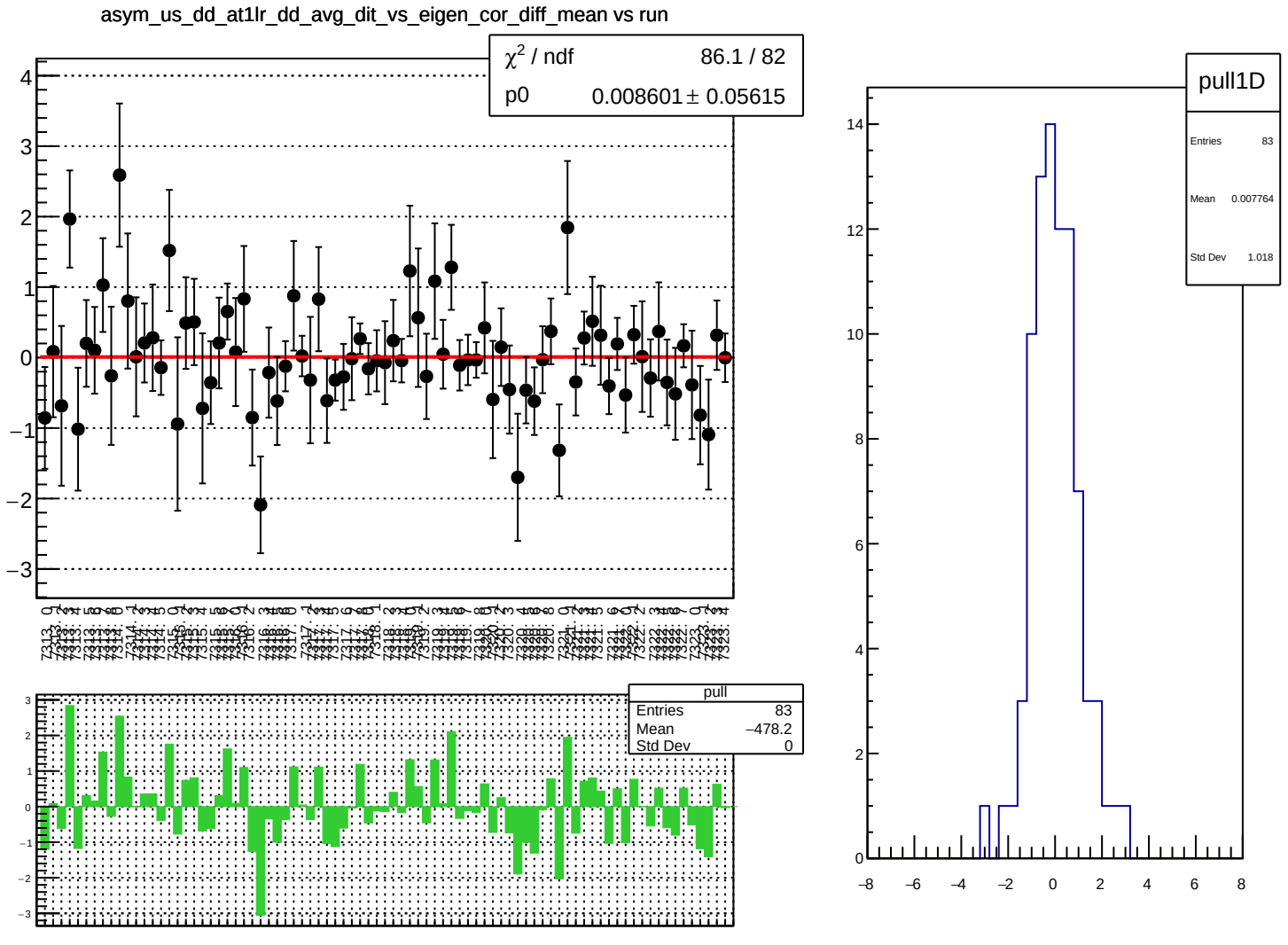

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 82
p0 −3.734e−15 ± 9.53e−15
0.02
0.01
0
−0.01
−0.02
pull
Entries 83
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 83
Mean 0.0319
Std Dev 0.9517
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

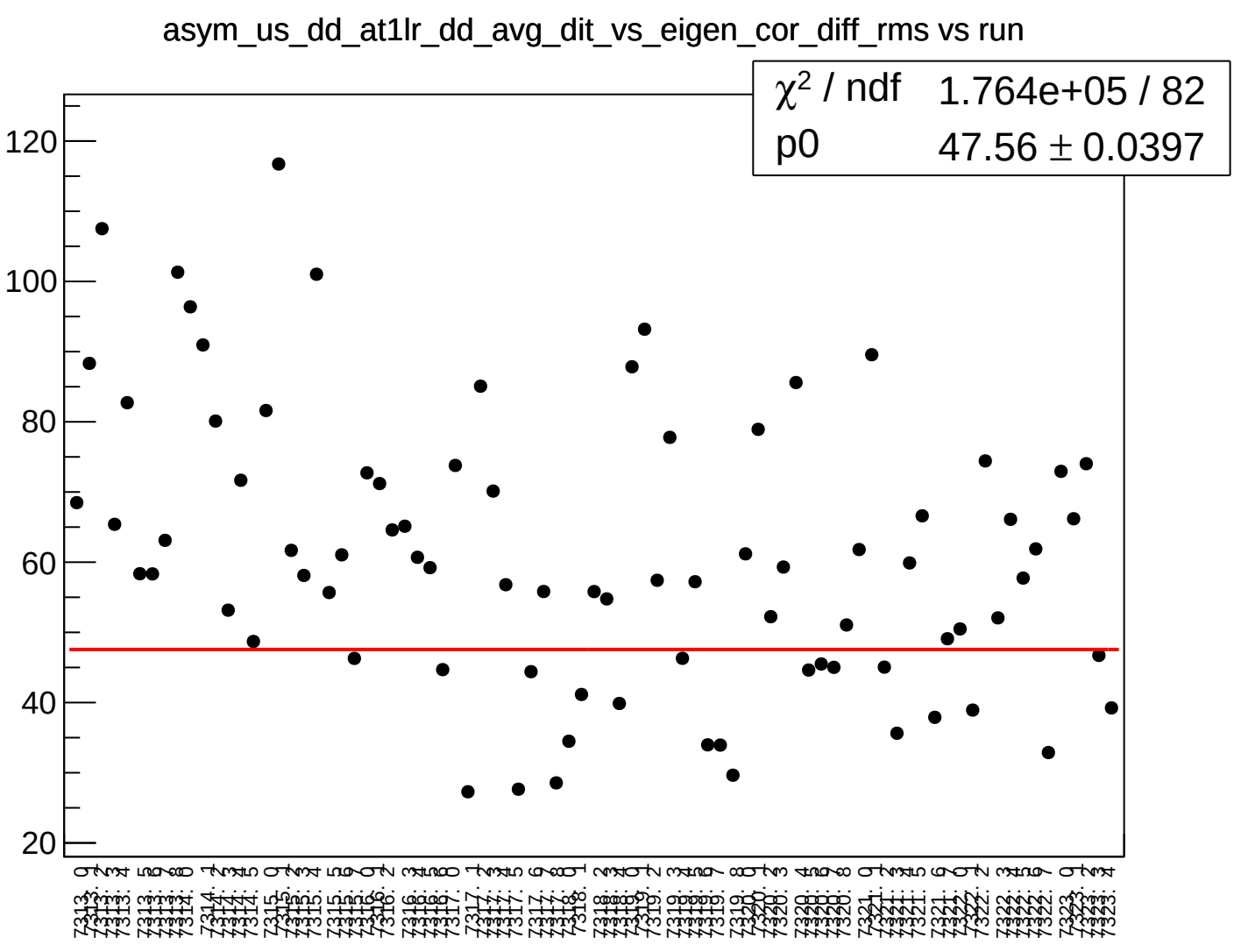

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.341e+06 / 82
p0 3.505e−12 ± 6.739e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

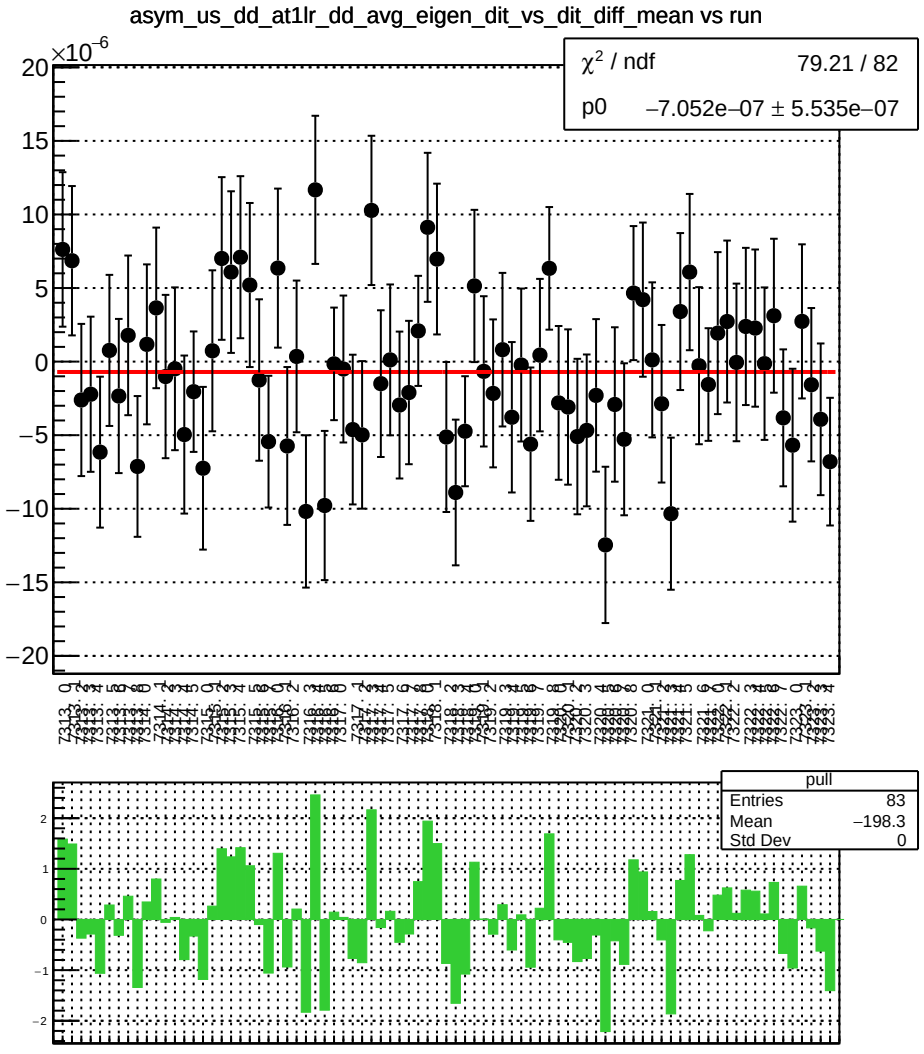

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 82
p0 0.008601 ± 0.05615
pull
Entries 83
Mean −478.2
Std Dev 0

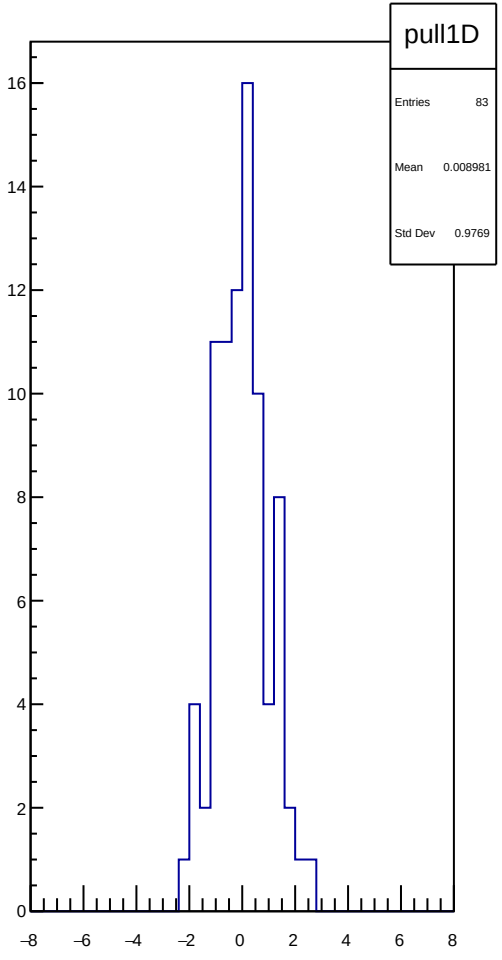

pull1D
Entries 83
Mean 0.007764
Std Dev 1.018

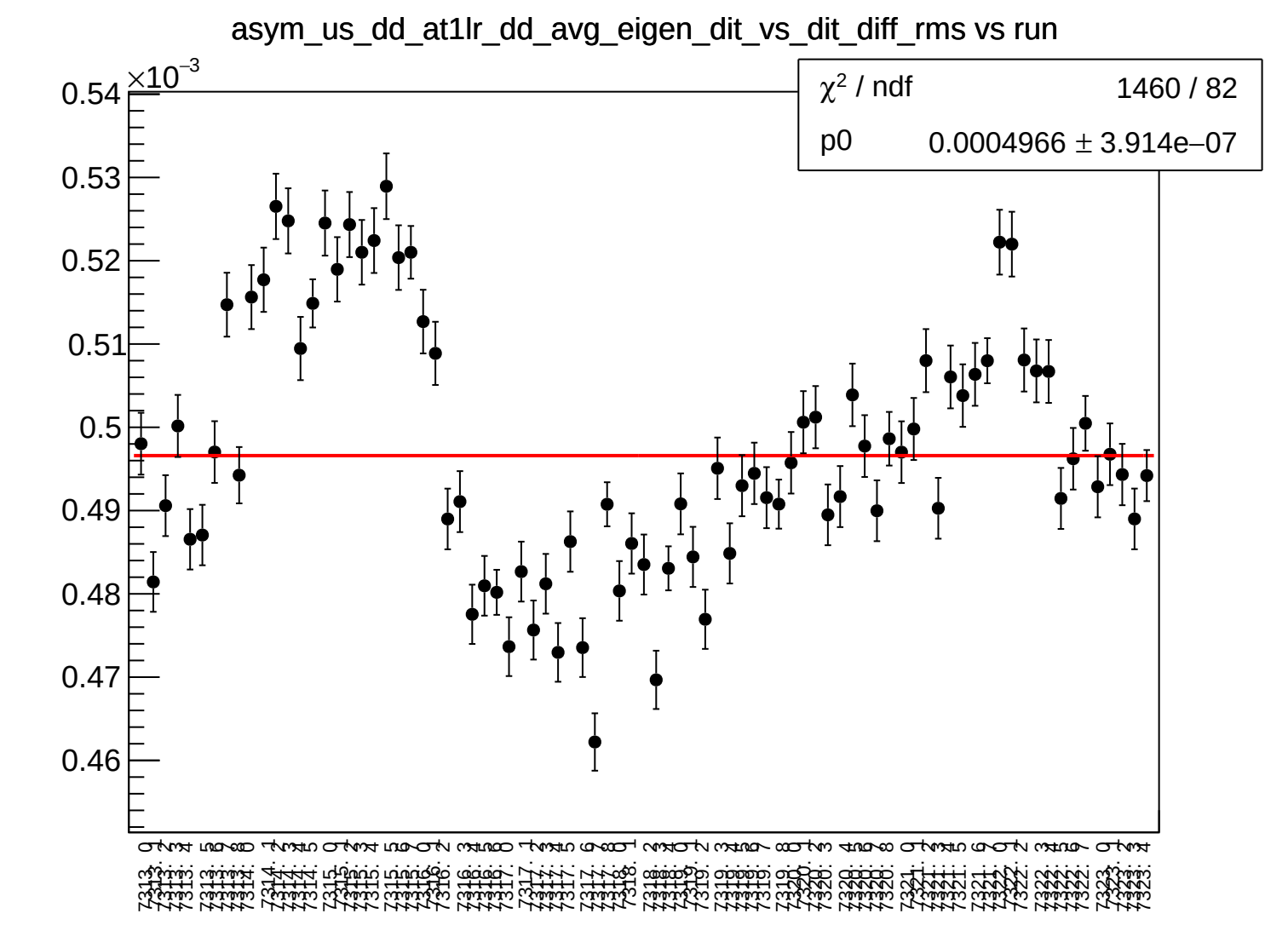

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.764e+05 / 82
p0 47.56 ± 0.0397
120
100
80
60
40
20

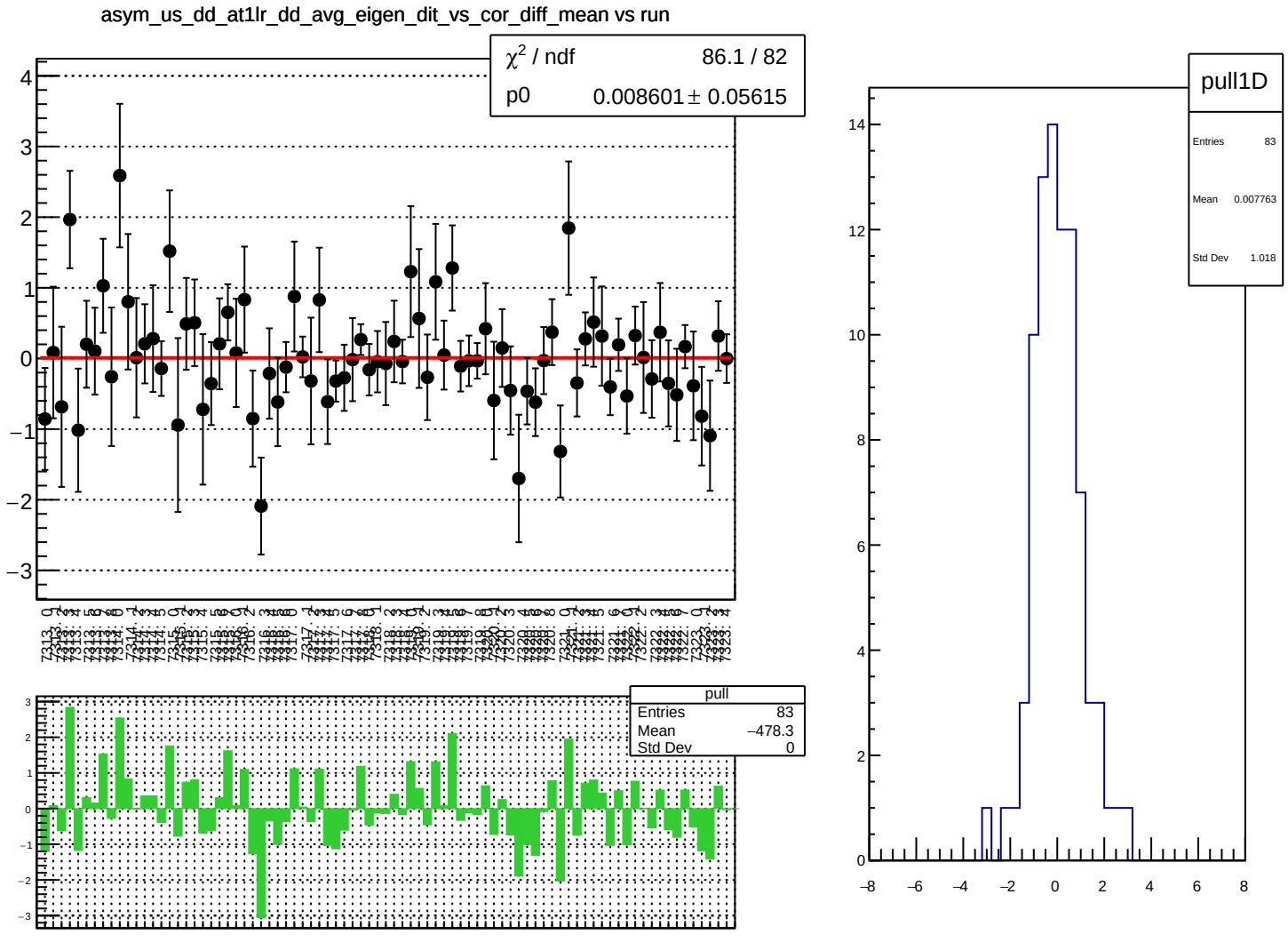

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.1 / 82
p0 0.008601 ± 0.05615
pull
Entries 83
Mean −478.2
Std Dev 0
pull1D
Entries 83
Mean 0.007764
Std Dev 1.018

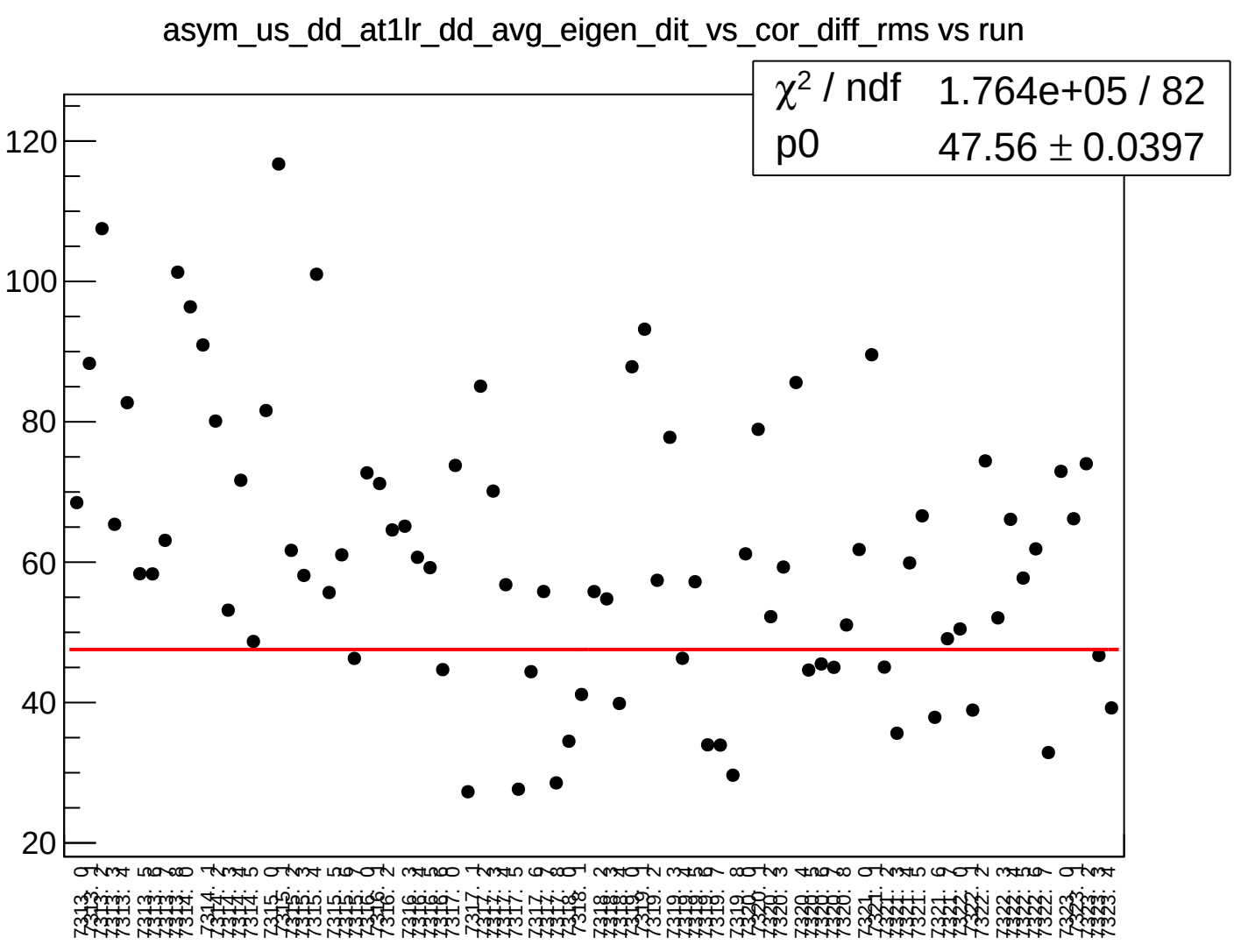

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.764e+05 / 82
p0 47.56 ± 0.0397
120
100
80
60
40
20

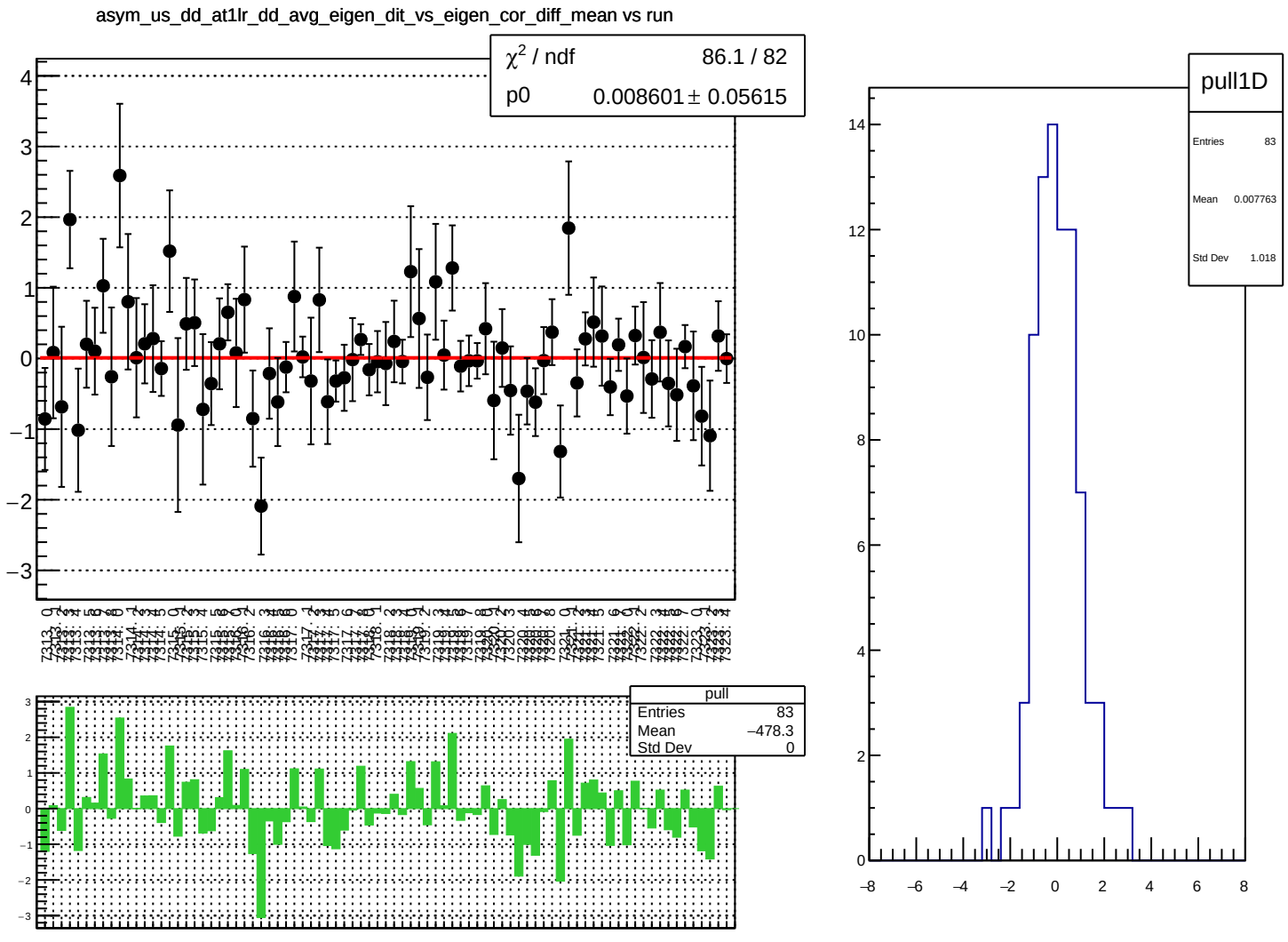

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 79.21 / 82
p0 −7.052e−07 ± 5.535e−07
pull
Entries 83
Mean −198.3
Std Dev 0

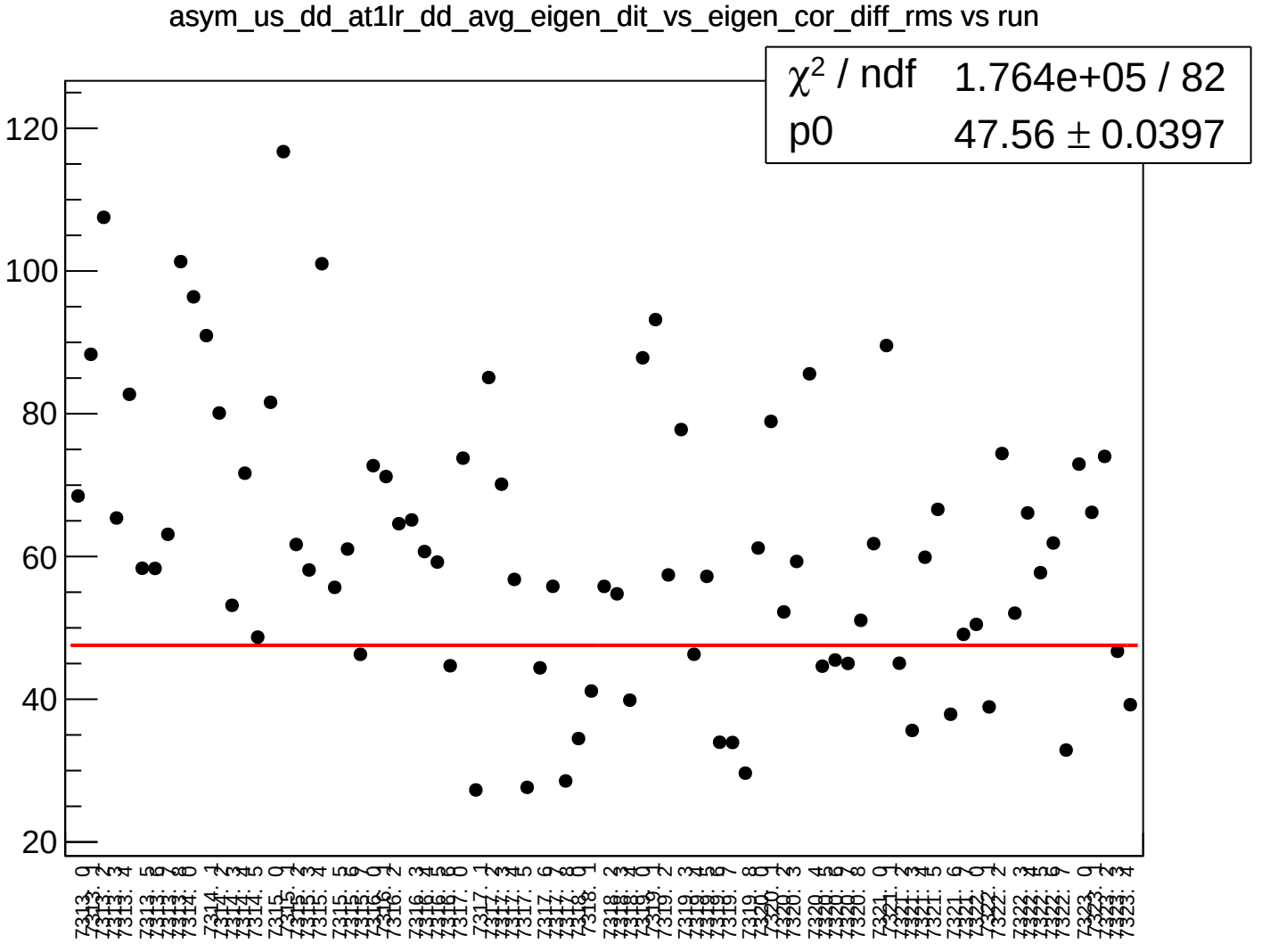

pull1D
Entries 83
Mean 0.008981
Std Dev 0.9769

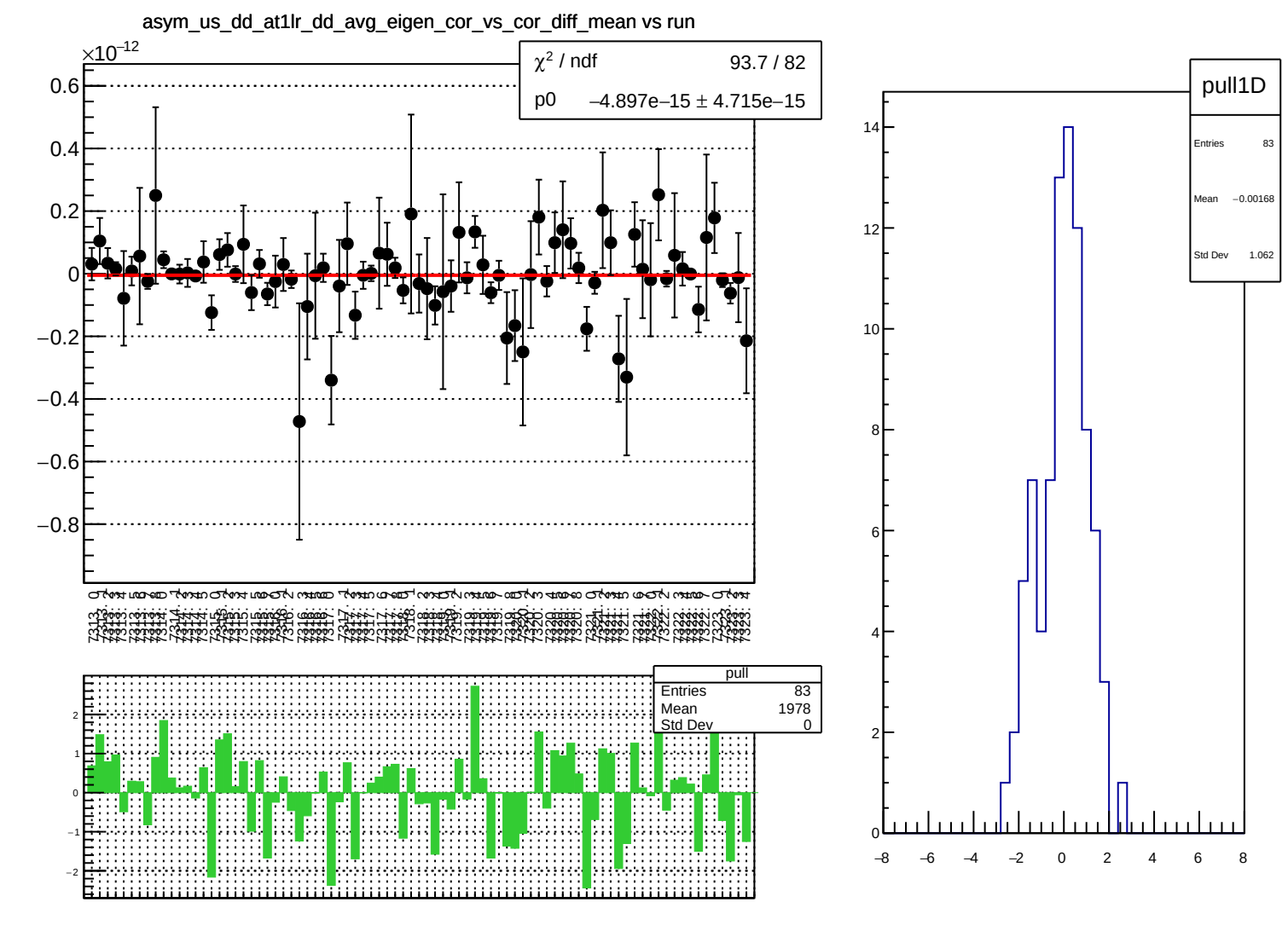

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1460 / 82
p0 0.0004966 ± 3.914e−07
0.54
0.53
0.52
0.51
0.5
0.49
0.48
0.47
0.46

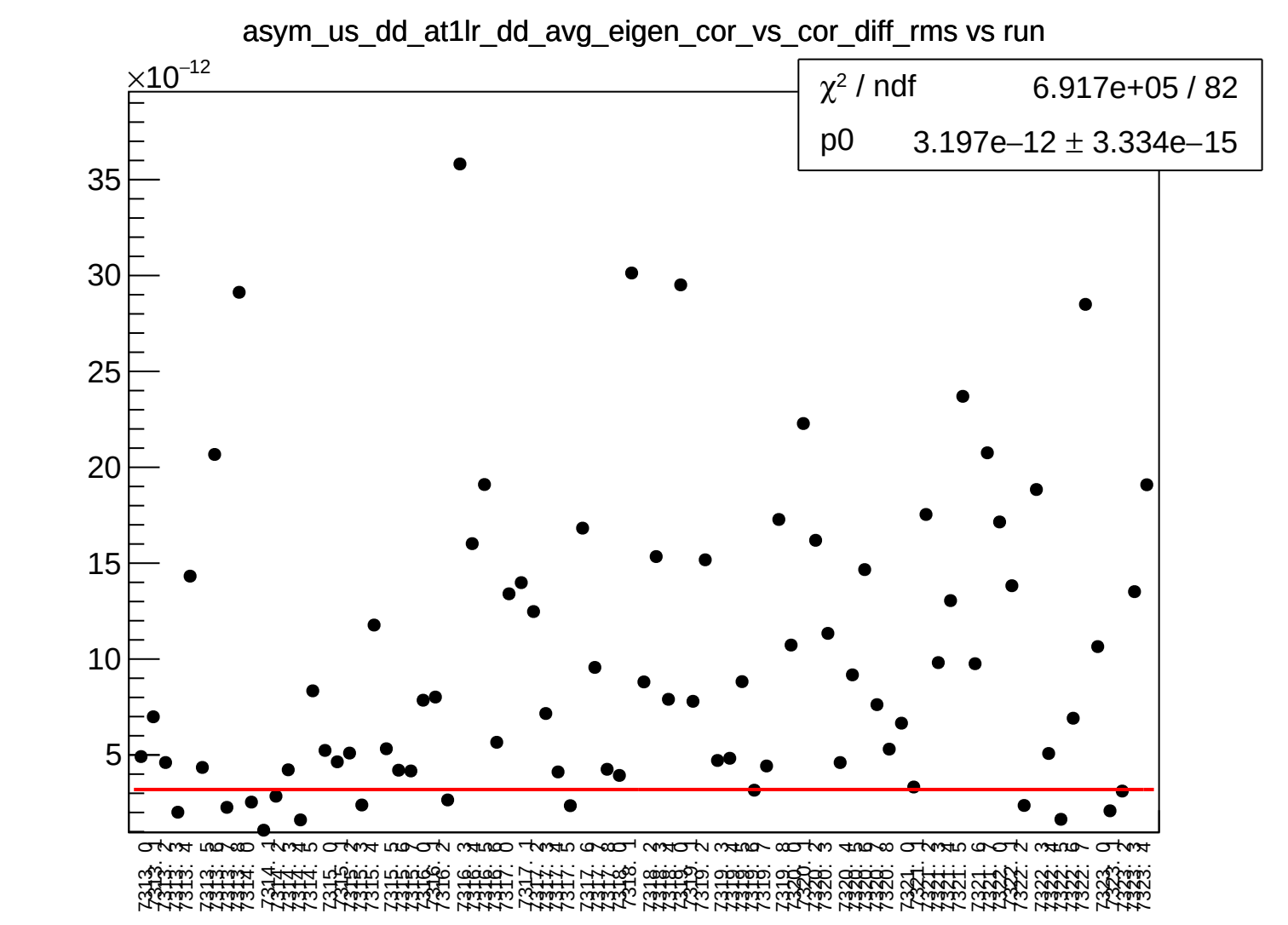

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 82
p0 0.008601 ± 0.05615
pull
Entries 83
Mean −478.3
Std Dev 0
pull1D
Entries 83
Mean 0.007763
Std Dev 1.018

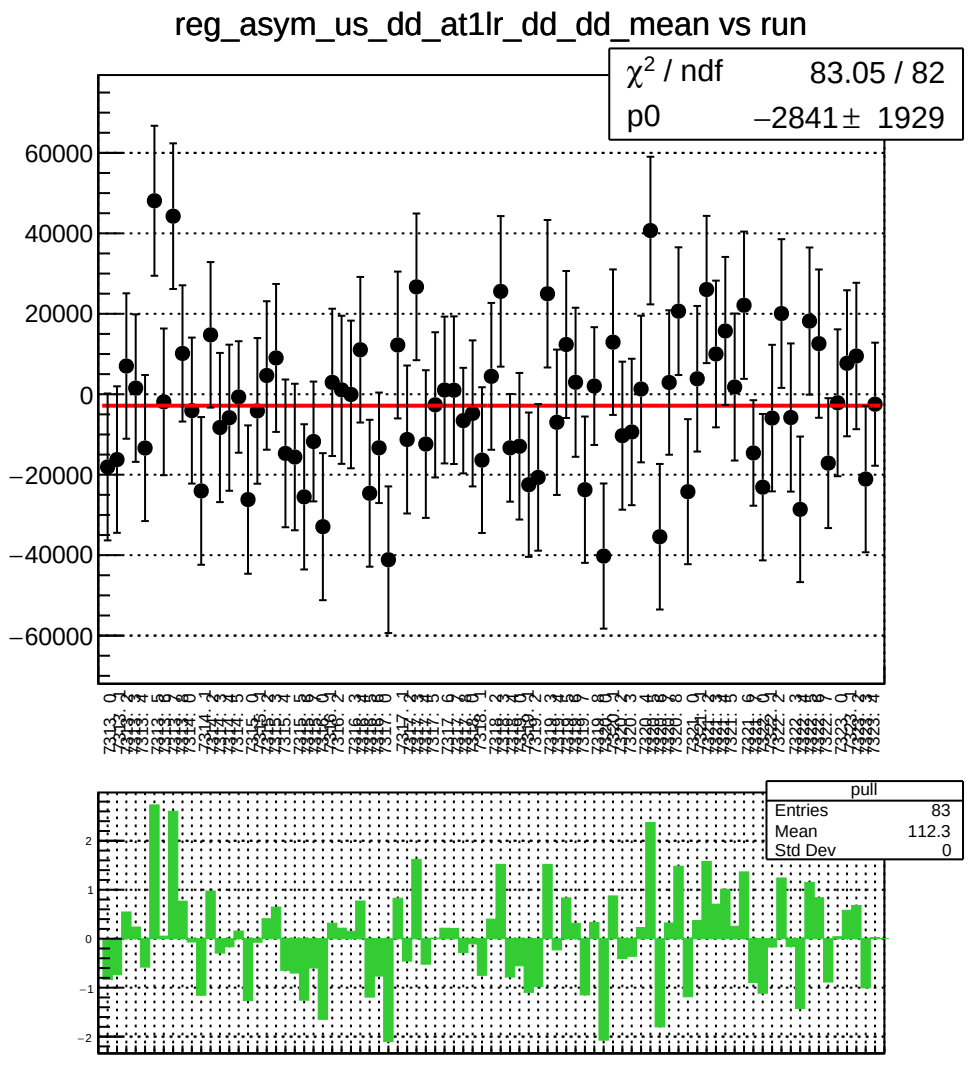

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.764e+05 / 82
p0 47.56 ± 0.0397
120
100
80
60
40
20

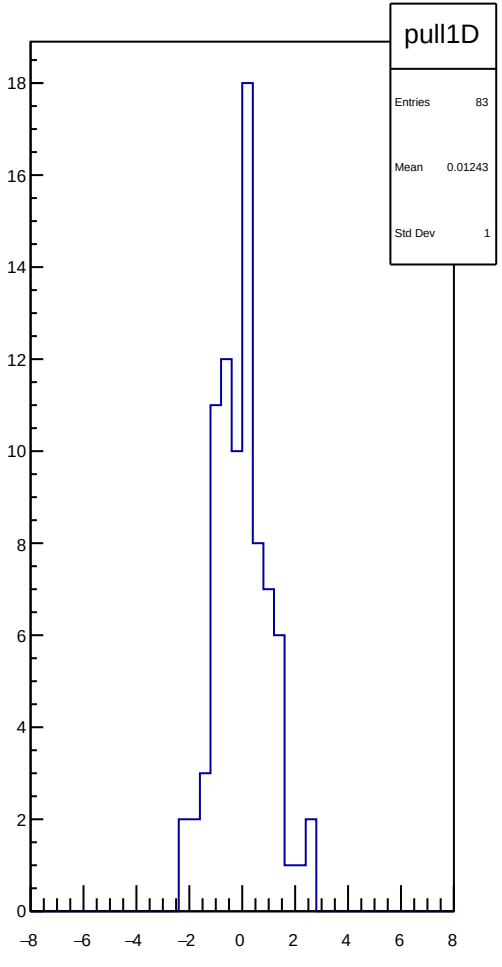

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.1 / 82
p0 0.008601 ± 0.05615
pull
Entries 83
Mean −478.3
Std Dev 0
pull1D
Entries 83
Mean 0.007763
Std Dev 1.018

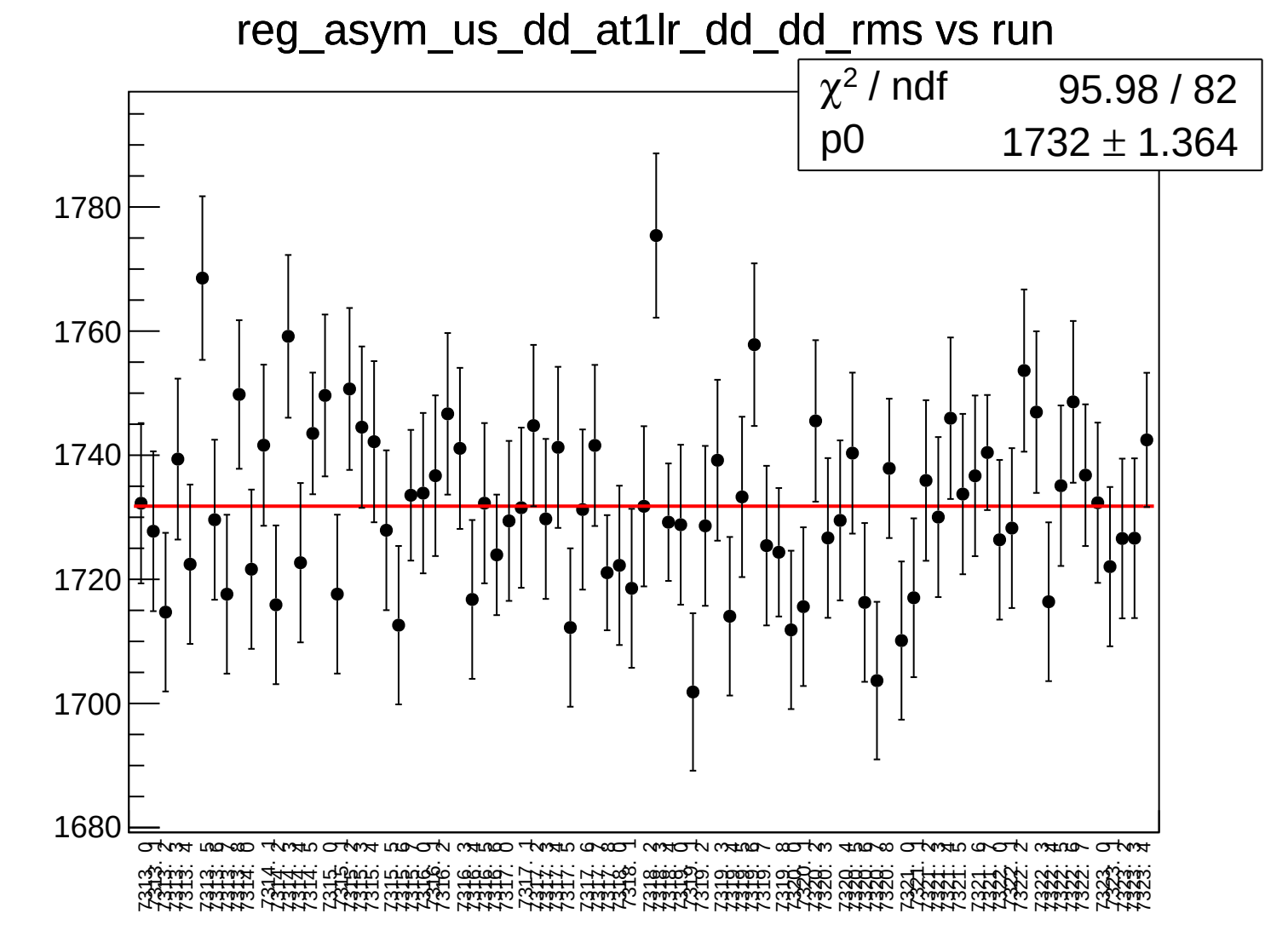

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.764e+05 / 82
p0 47.56 ± 0.0397
120
100
80
60
40
20

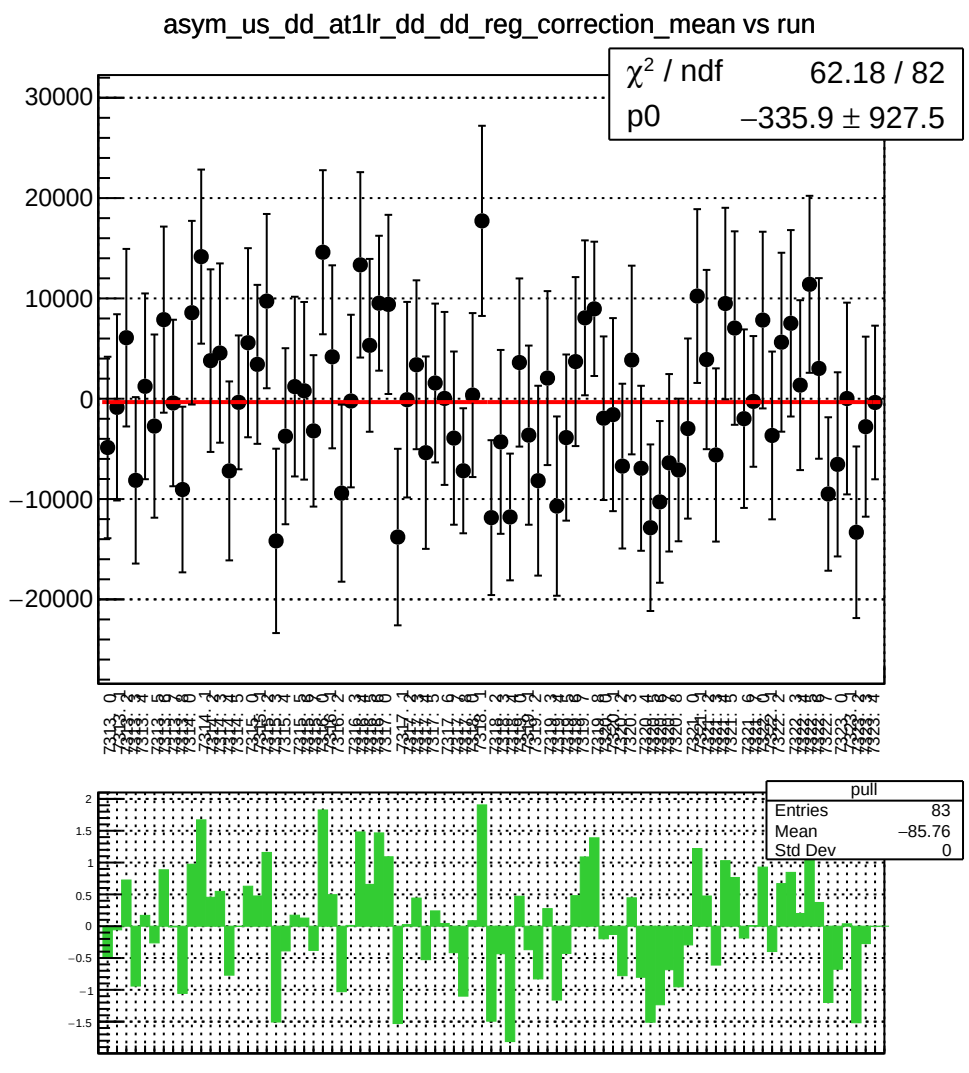

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.7 / 82
p0 −4.897e−15 ± 4.715e−15
pull
Entries 83
Mean 1978
Std Dev 0
pull1D
Entries 83
Mean −0.00168
Std Dev 1.062

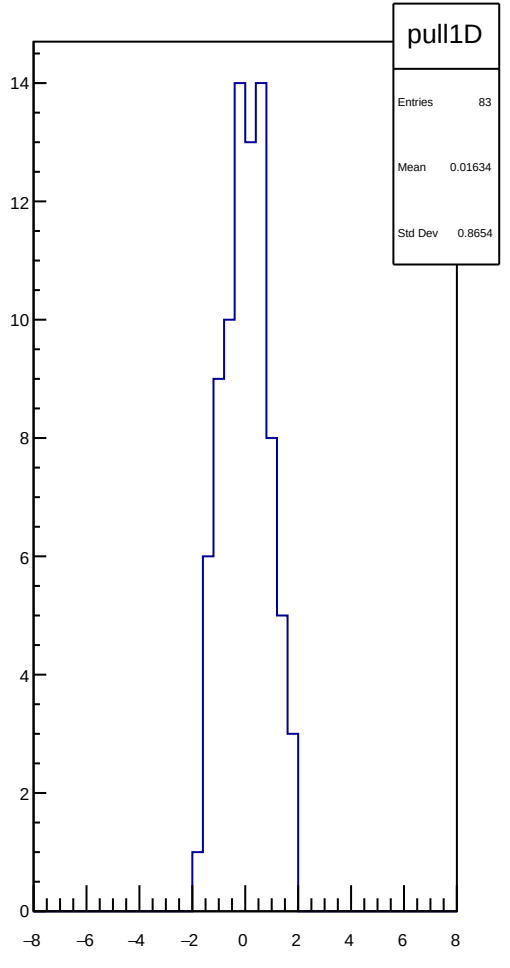

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.917e+05 / 82
p0 3.197e−12 ± 3.334e−15
35
30
25
20
15
10
5

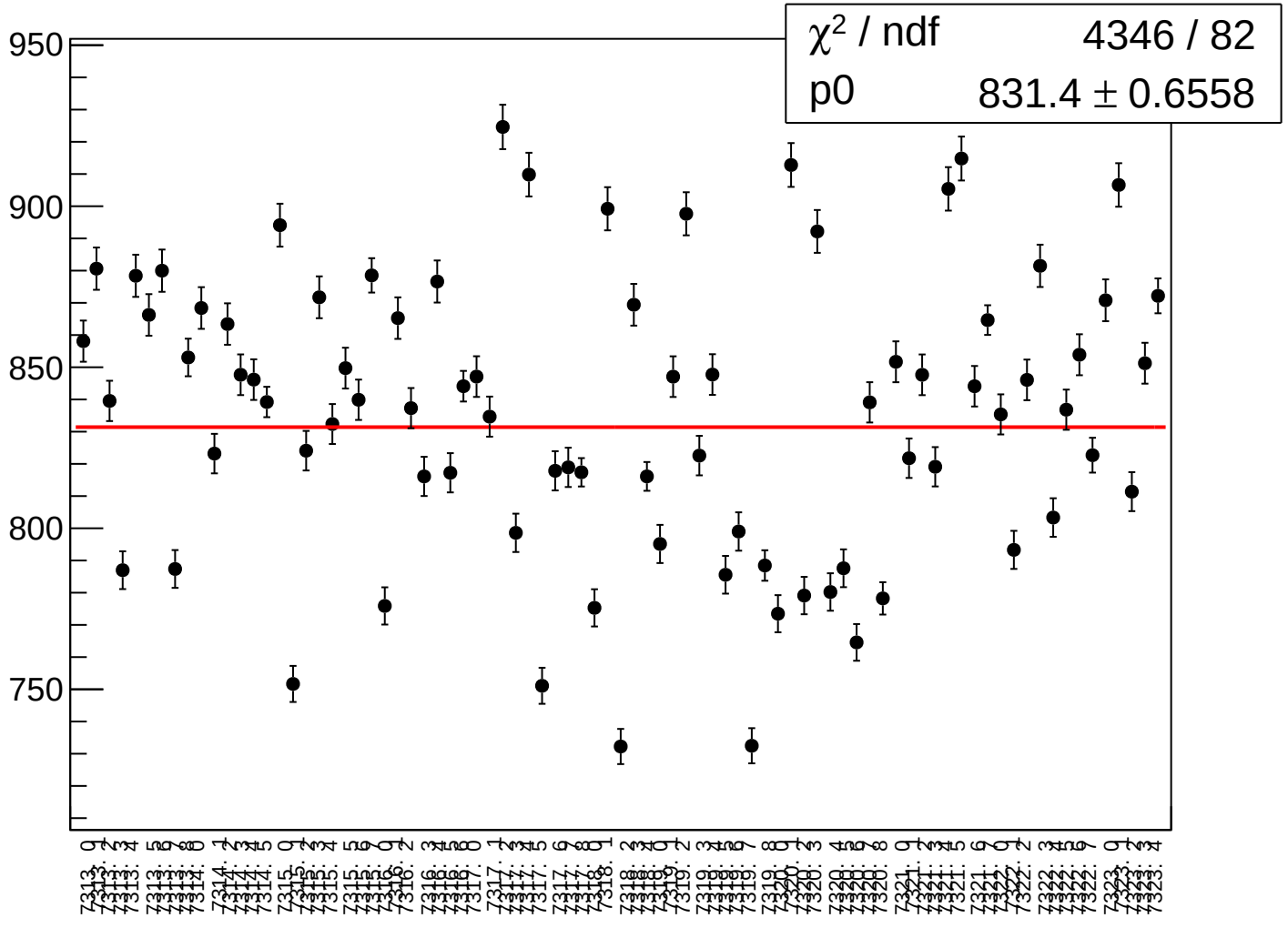

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.05 / 82
p0 −2841 ± 1929
pull
Entries 83
Mean 112.3
Std Dev 0

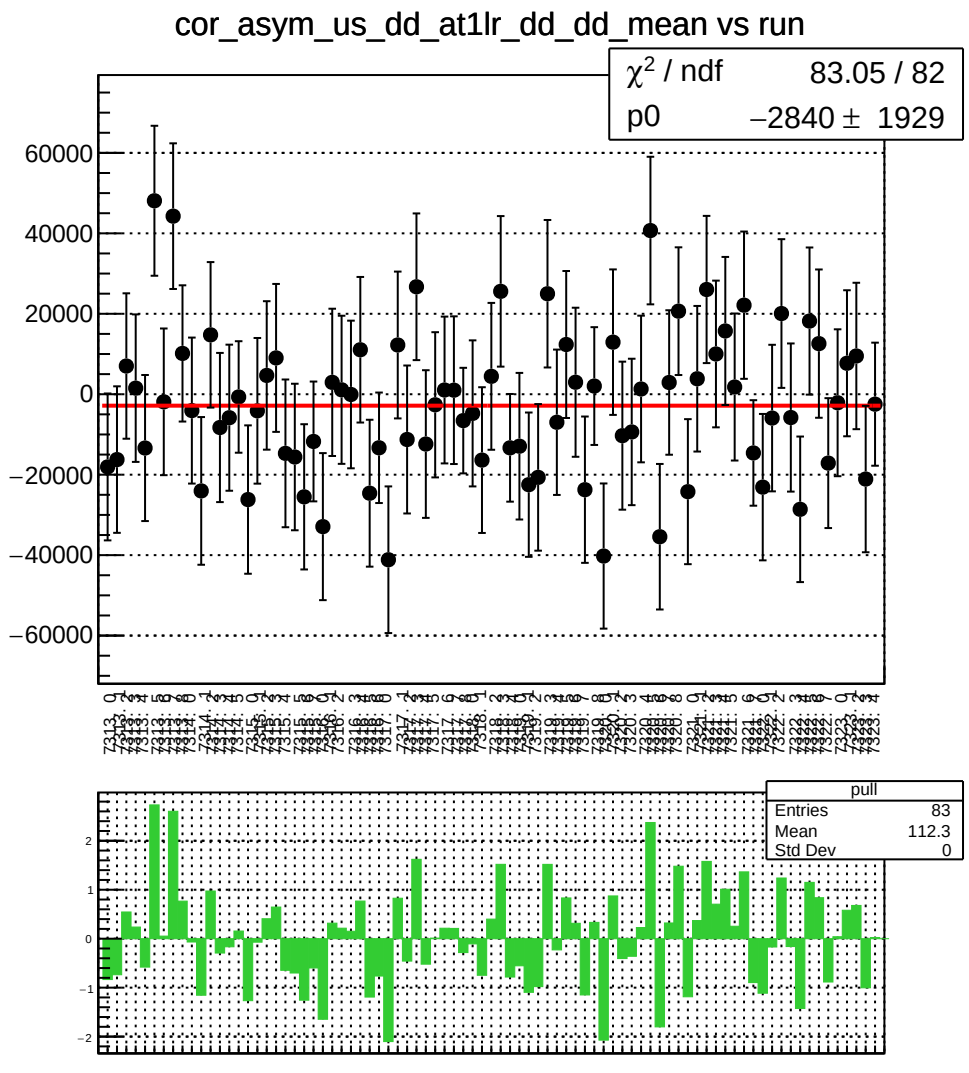

pull1D
Entries 83
Mean 0.01243
Std Dev 1

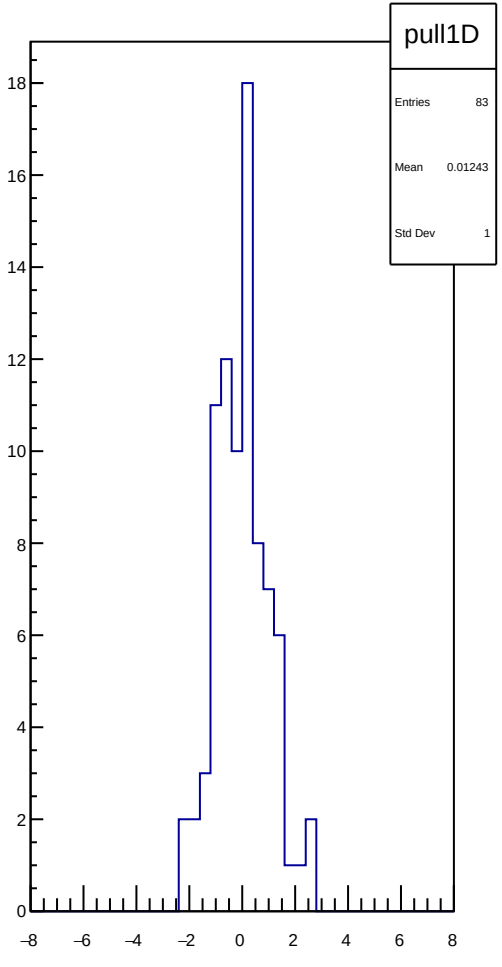

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 95.98 / 82
p0 1732 ± 1.364
1780
1760
1740
1720
1700
1680

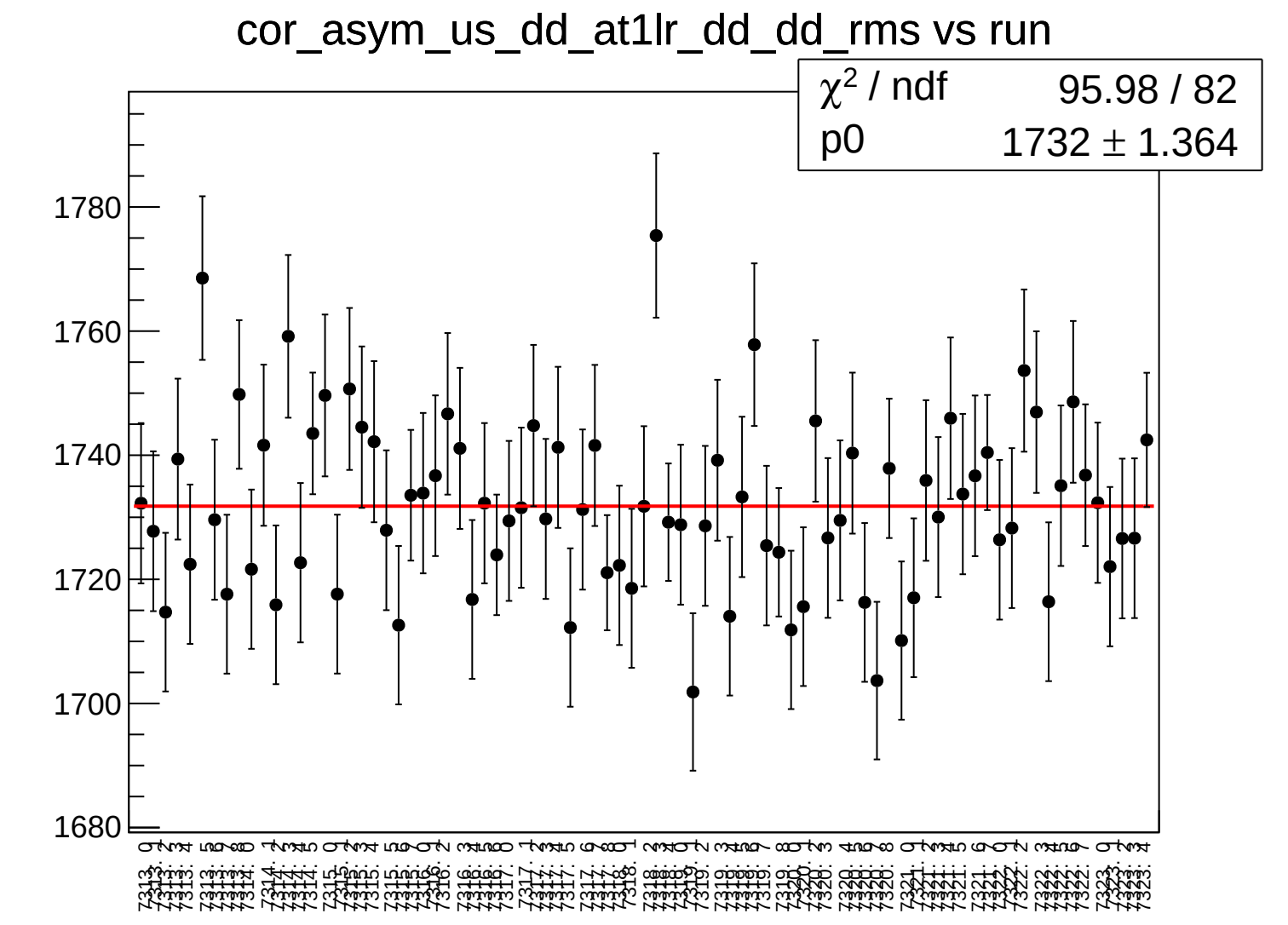

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 62.18 / 82
p0 −335.9 ± 927.5
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −85.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

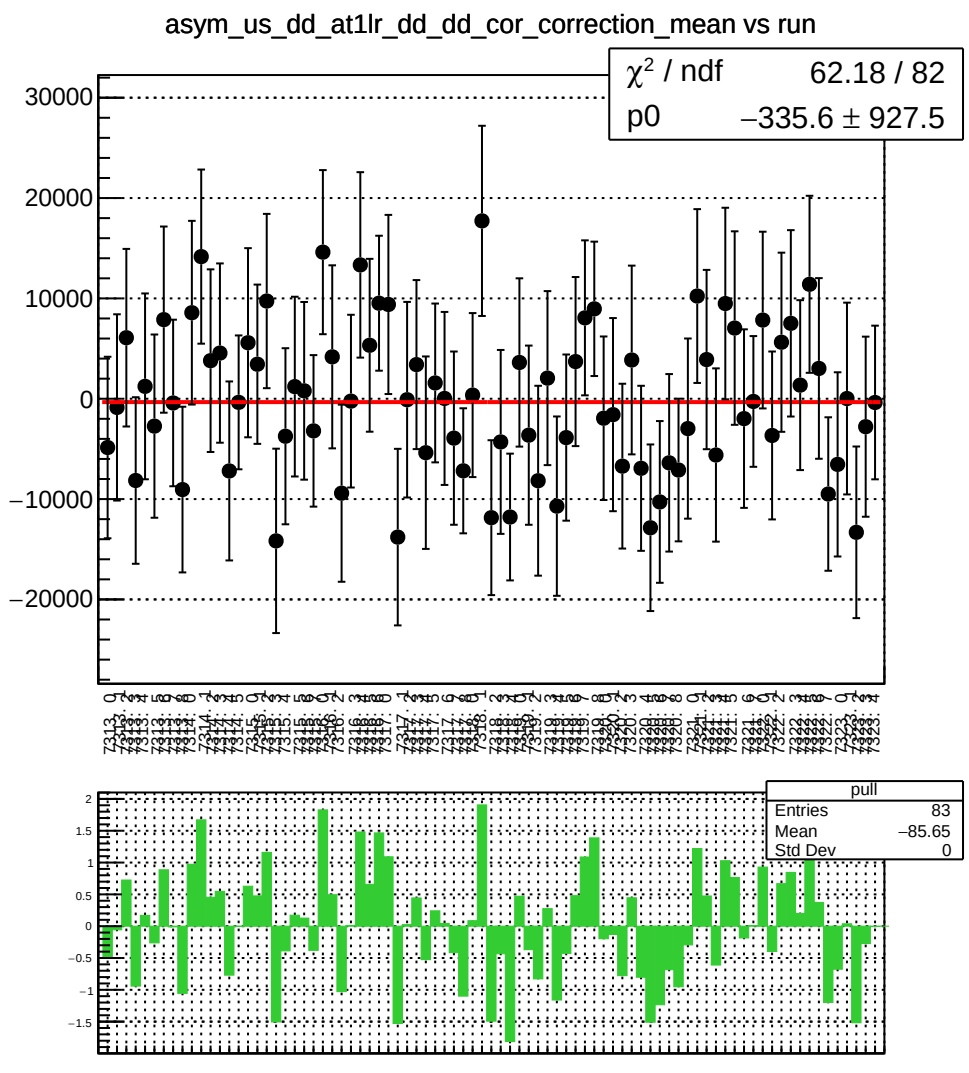

pull1D
Entries 83
Mean 0.01634
Std Dev 0.8654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

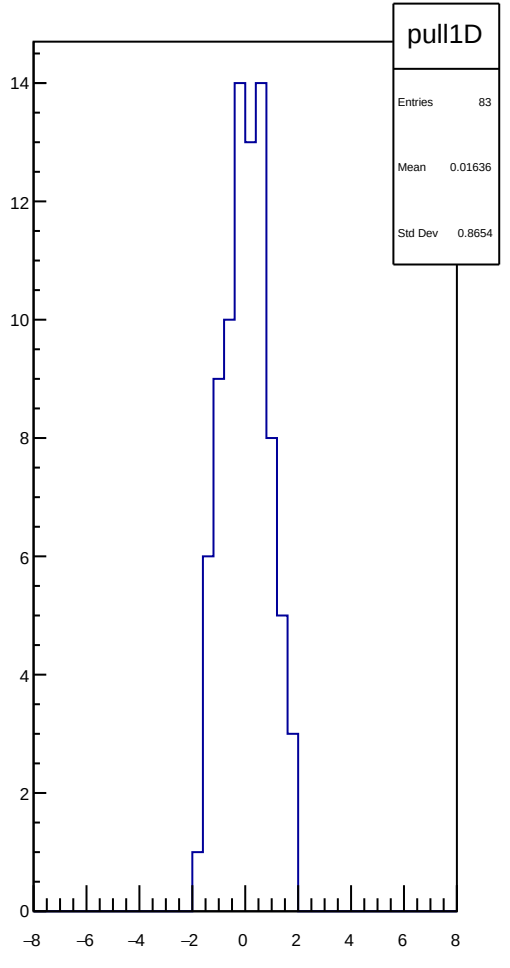

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4346 / 82
p0 831.4 ± 0.6558
950
900
850
800
750

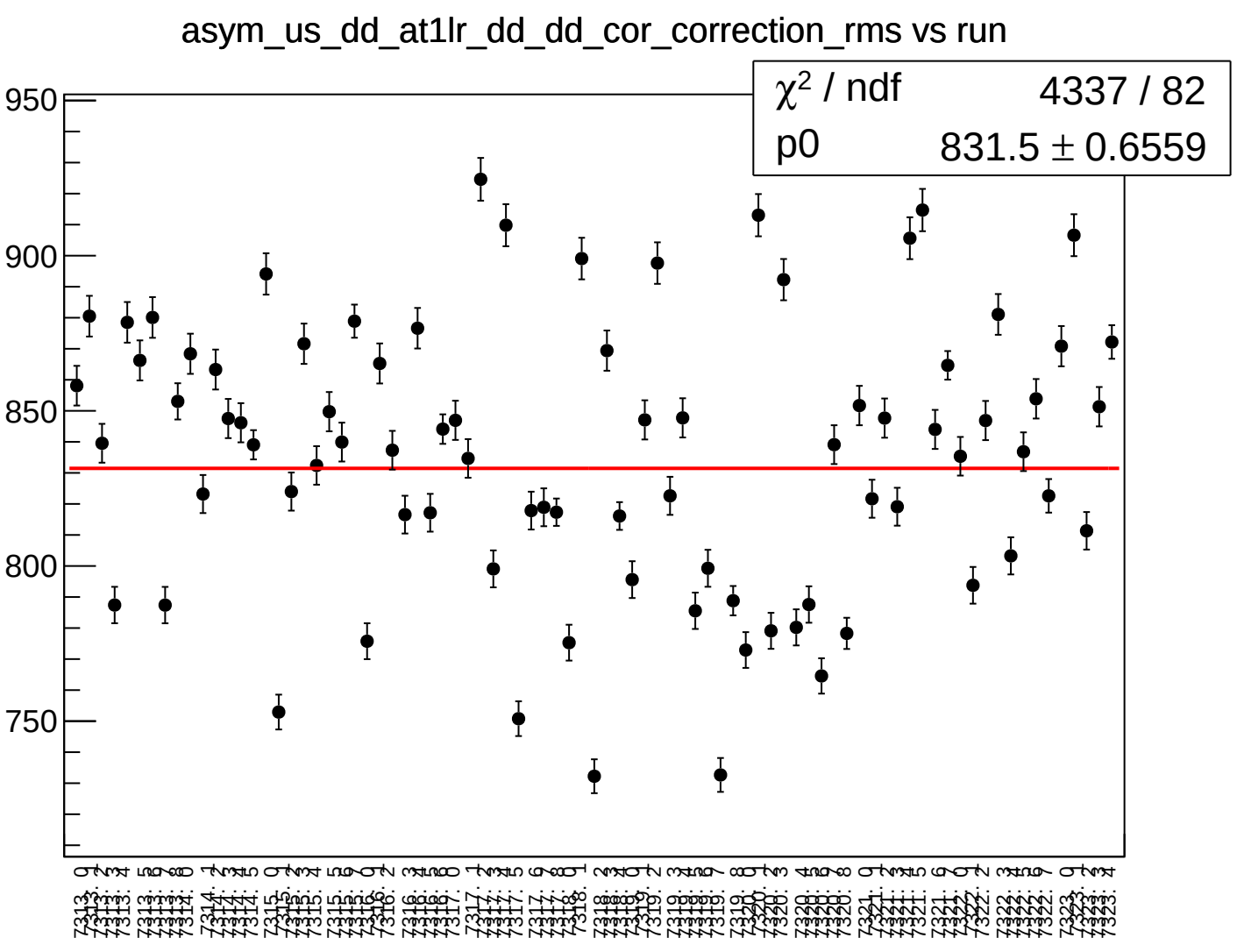

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.05 / 82
p0 −2840 ± 1929
pull
Entries 83
Mean 112.3
Std Dev 0

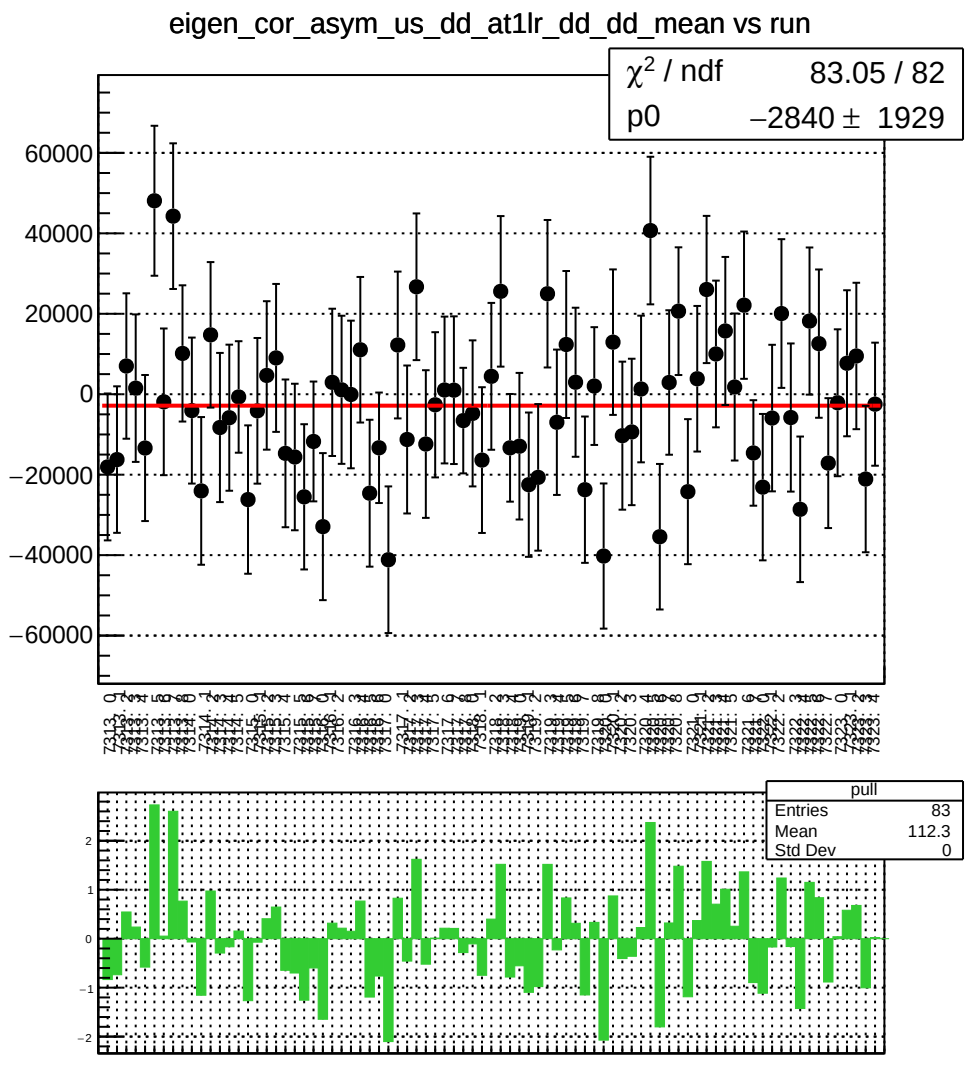

pull1D
Entries 83
Mean 0.01243
Std Dev 1

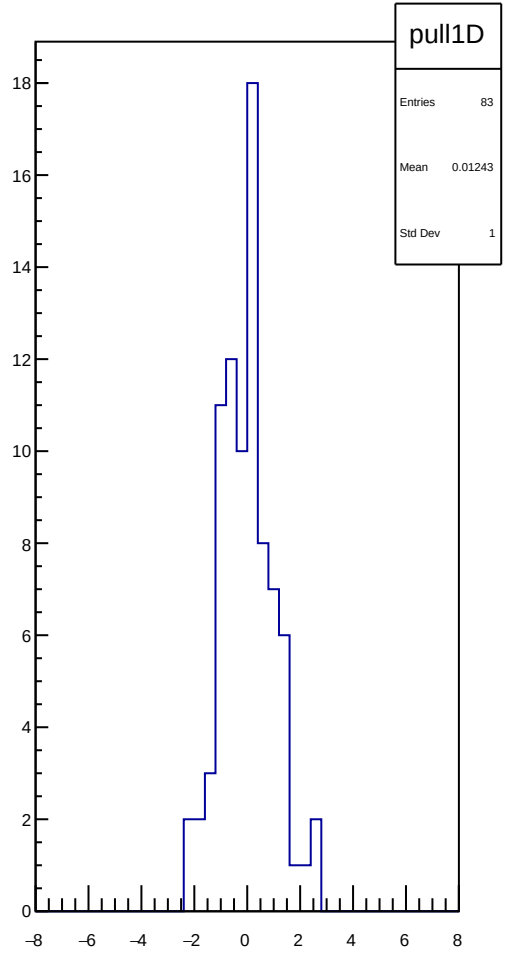

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 95.98 / 82
p0 1732 ± 1.364
1780
1760
1740
1720
1700
1680

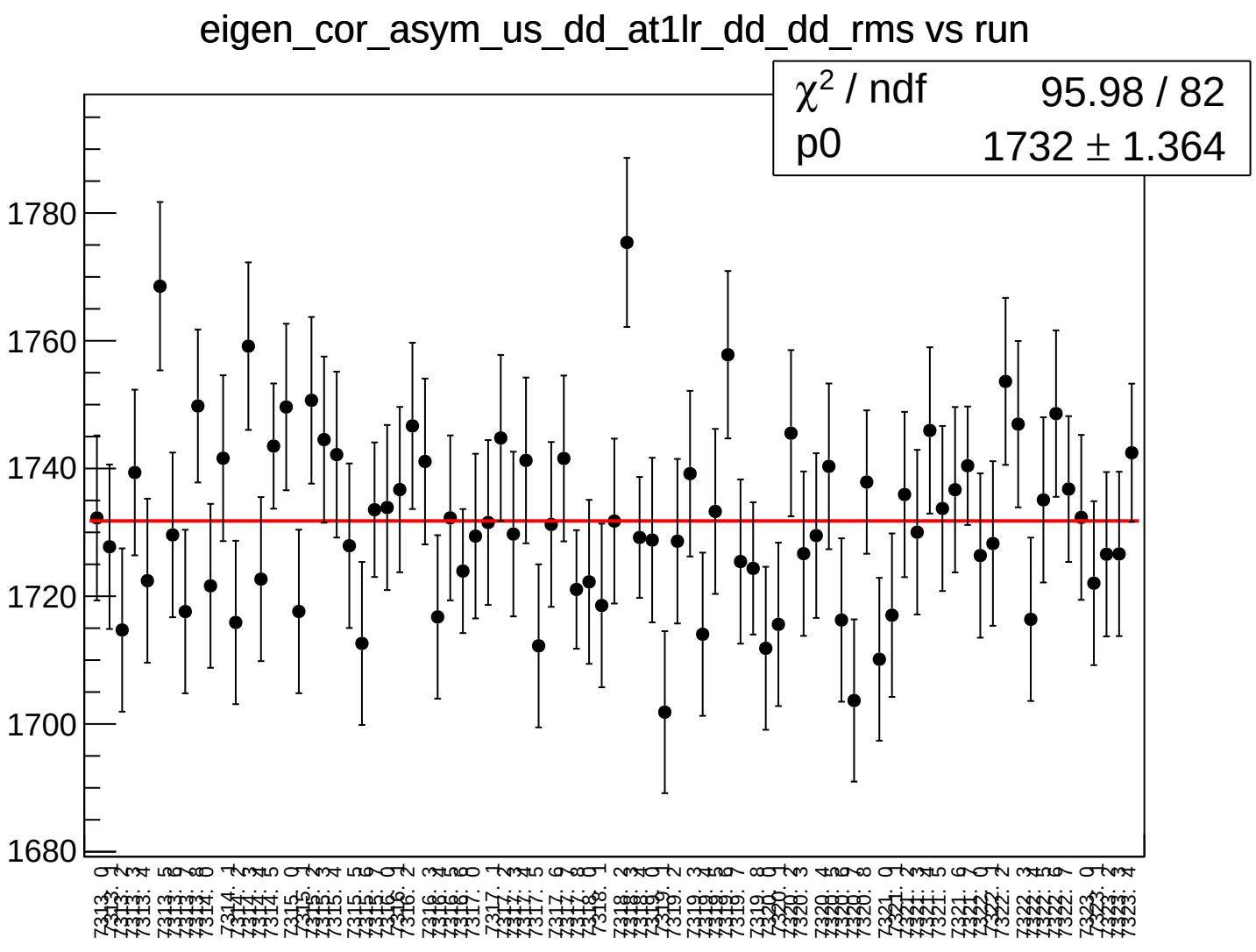

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 62.18 / 82
p0 −335.6 ± 927.5
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −85.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

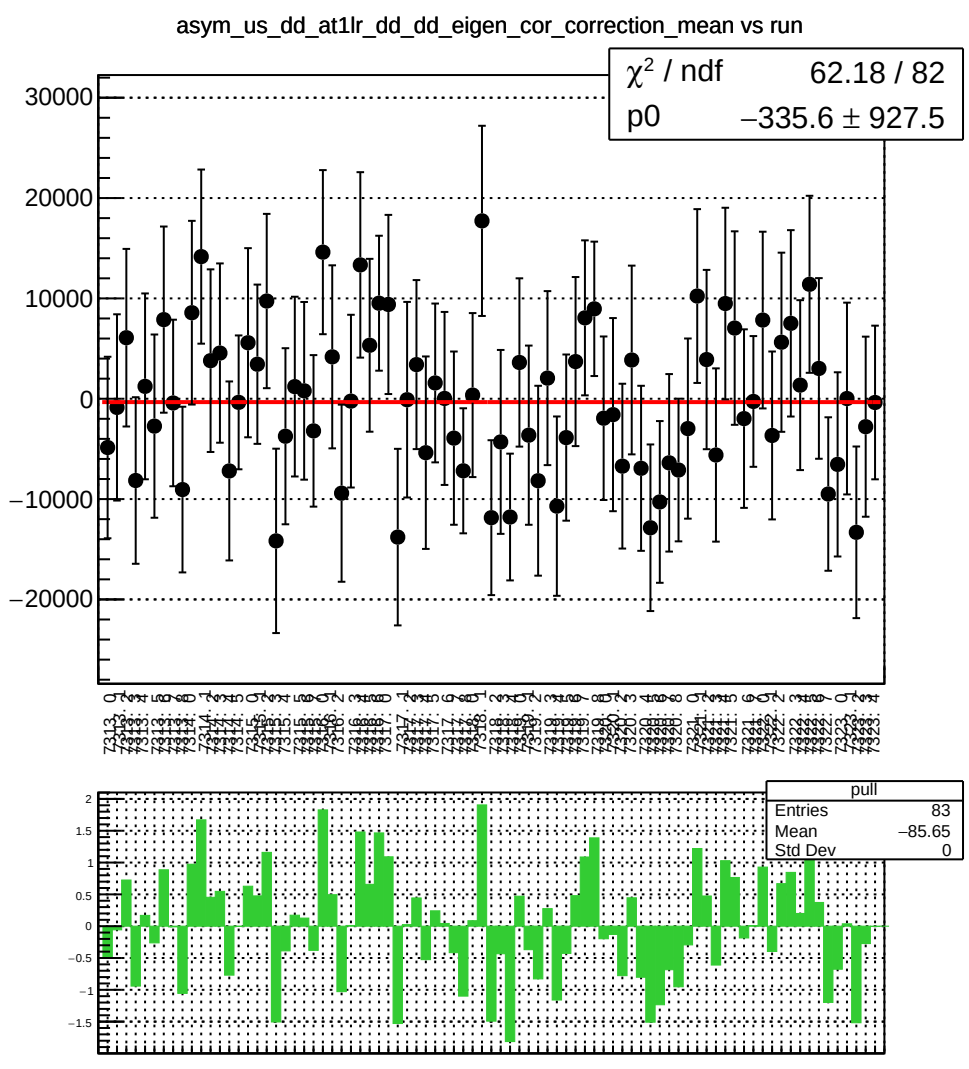

pull1D
Entries 83
Mean 0.01636
Std Dev 0.8654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

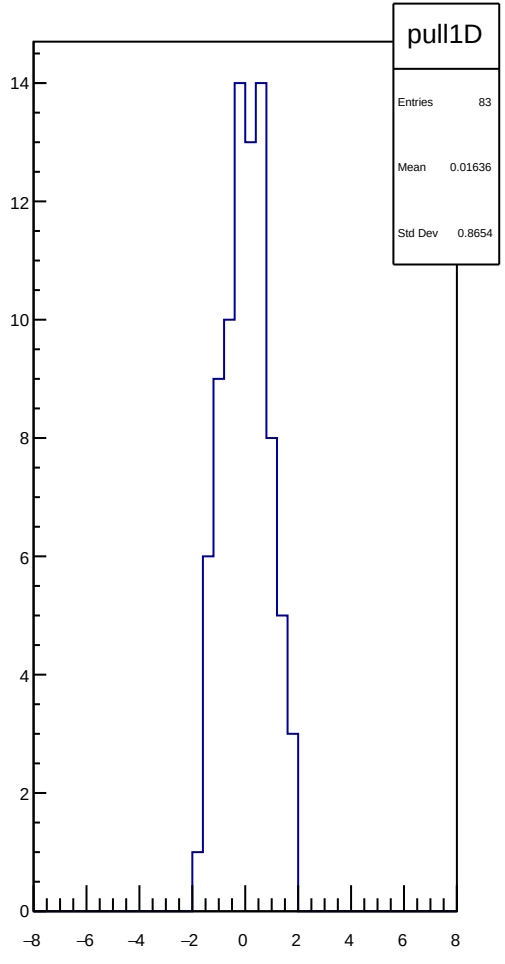

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4337 / 82
p0 831.5 ± 0.6559
950
900
850
800
750

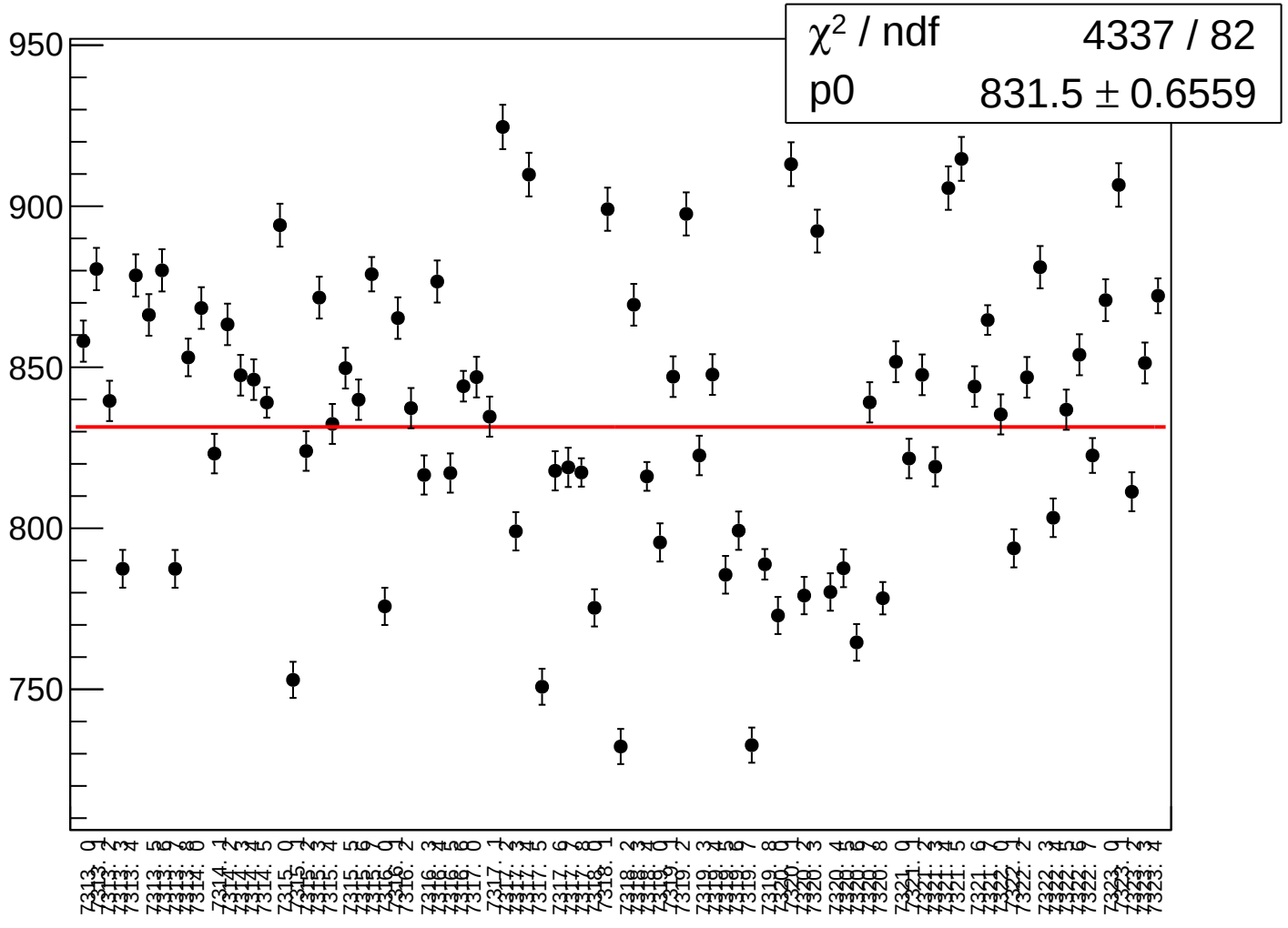

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.05 / 82
p0 −2840 ± 1929
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 112.3
Std Dev 0
2
1
0
−1
−2

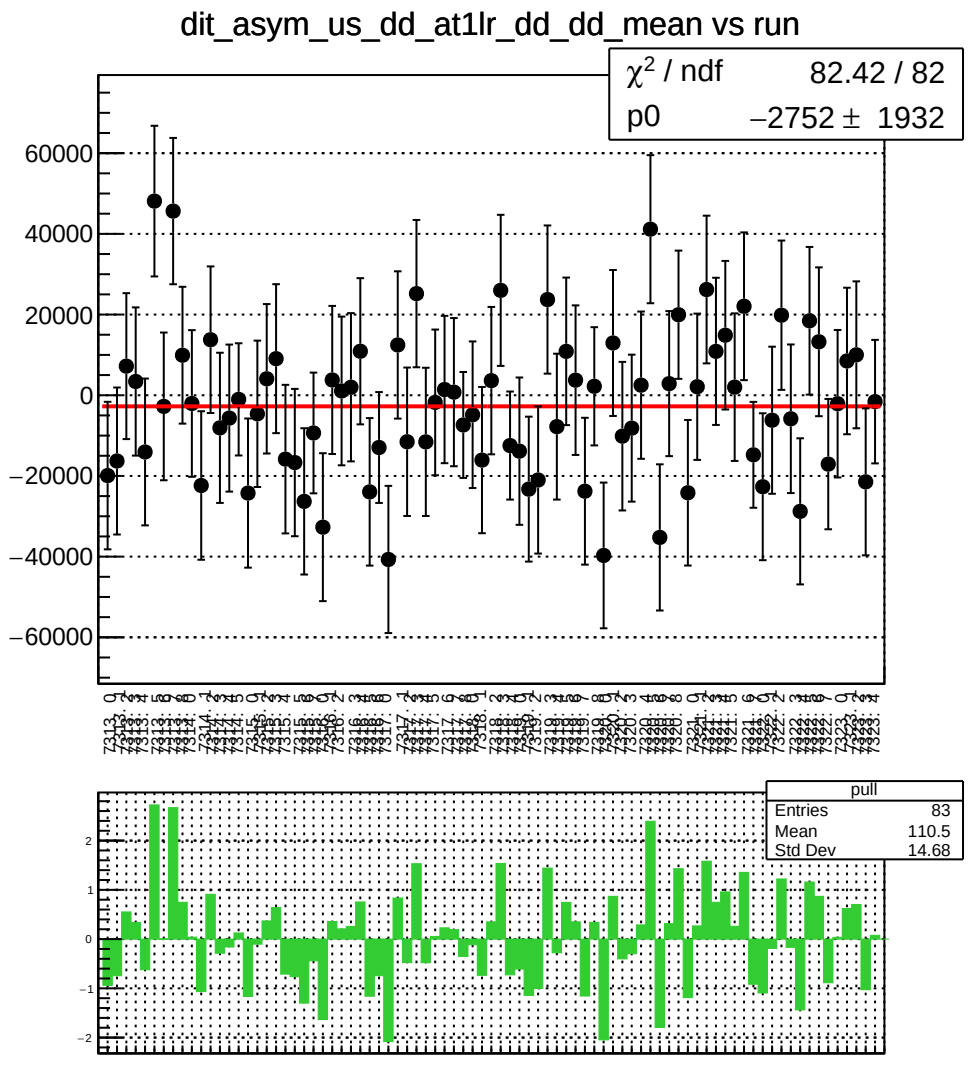

pull1D
Entries 83
Mean 0.01243
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

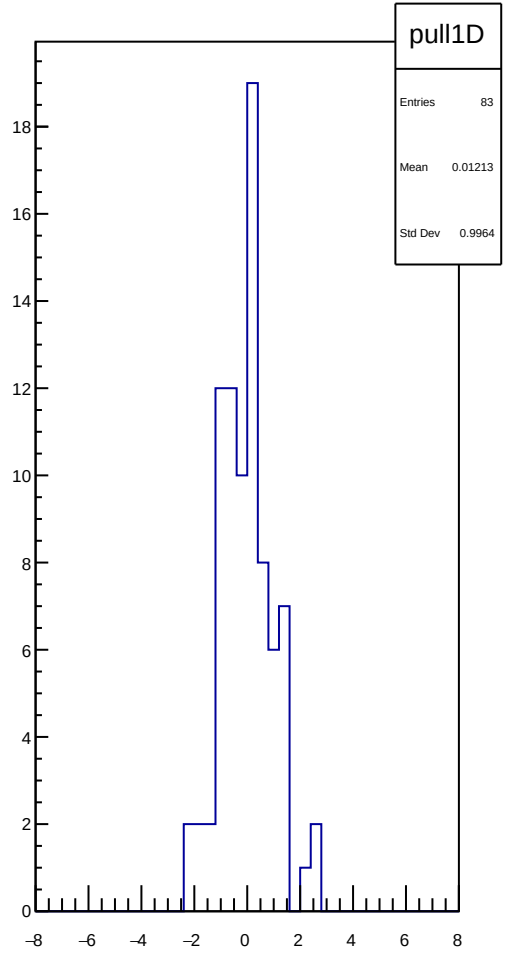

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 95.98 / 82
p0 1732 ± 1.364
1780
1760
1740
1720
1700
1680

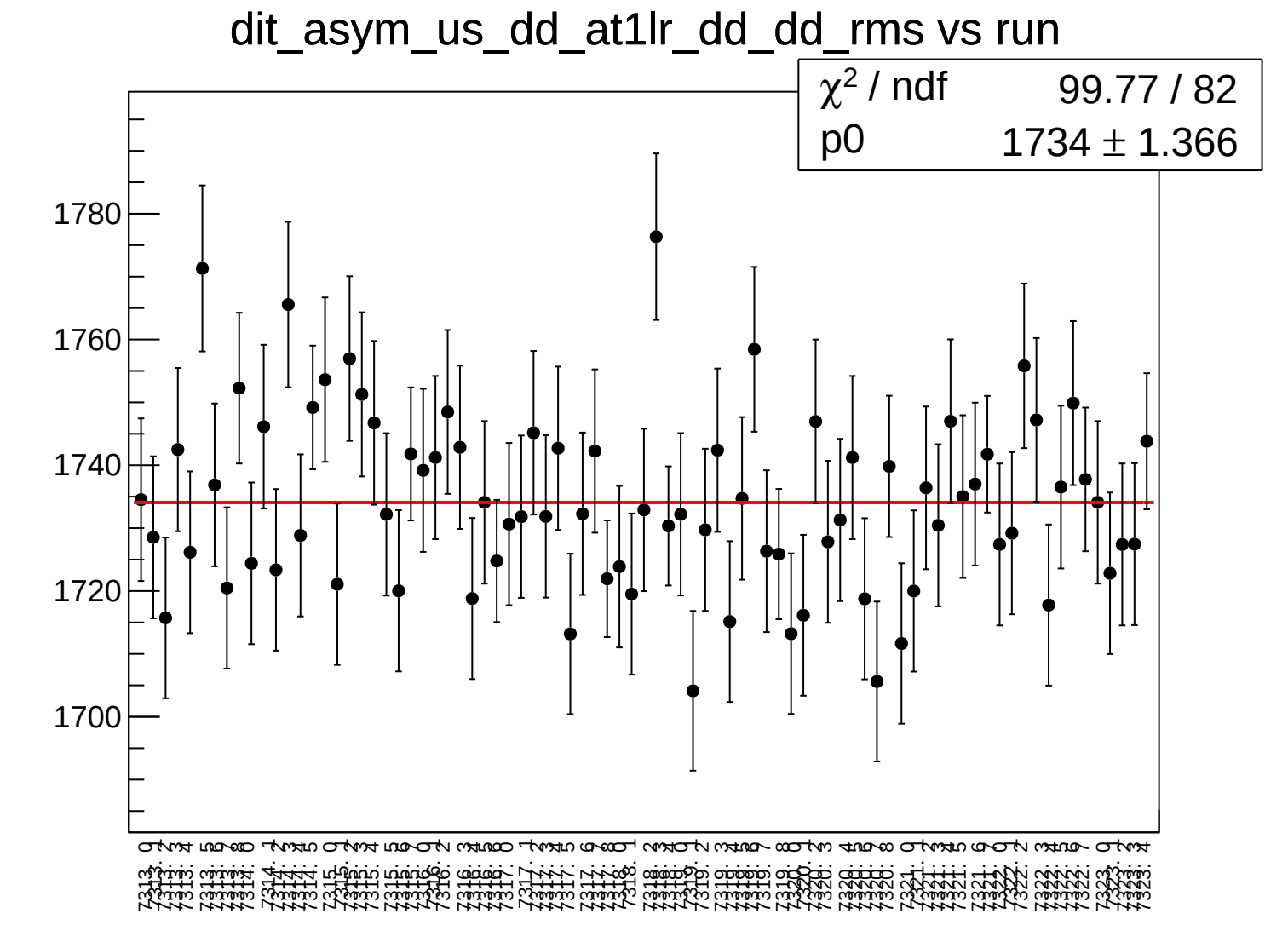

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.18 / 82
p0 −335.6 ± 927.5
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −85.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 83
Mean 0.01636
Std Dev 0.8654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

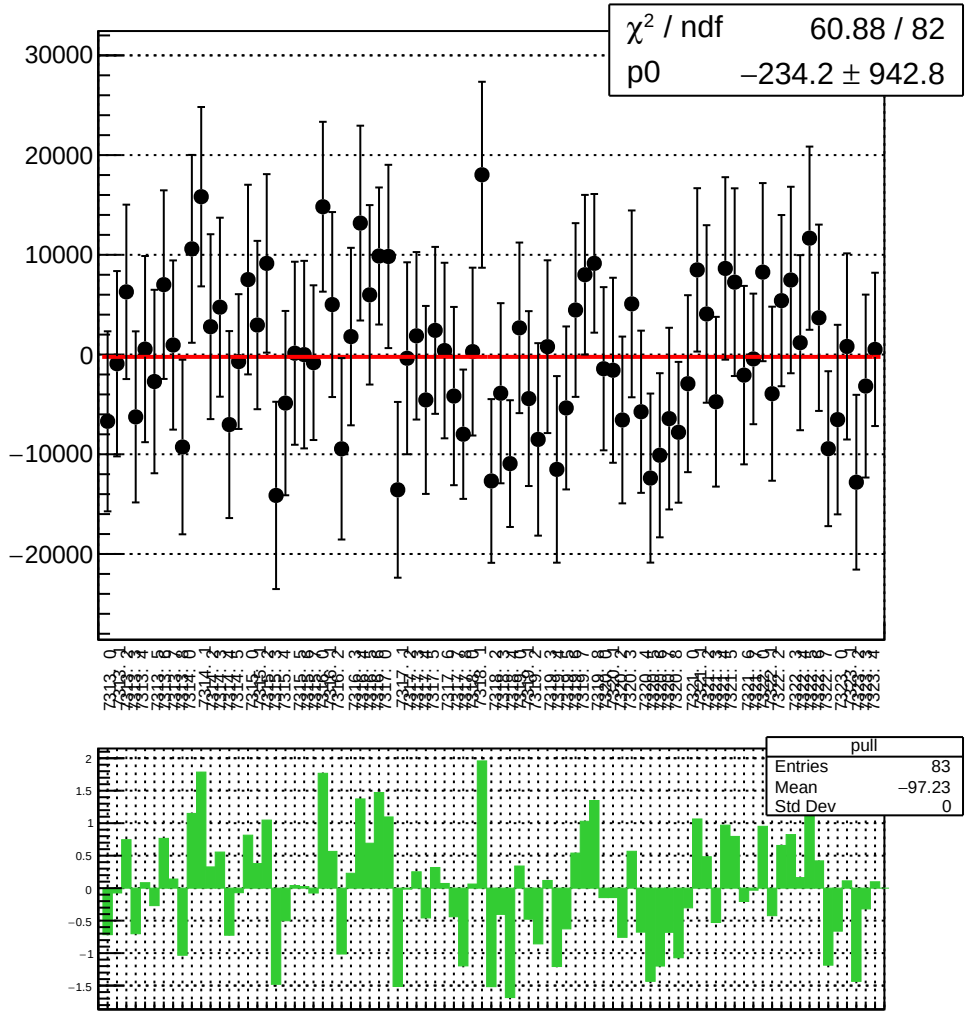

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4337 / 82
p0 831.5 ± 0.6559
950
900
850
800
750

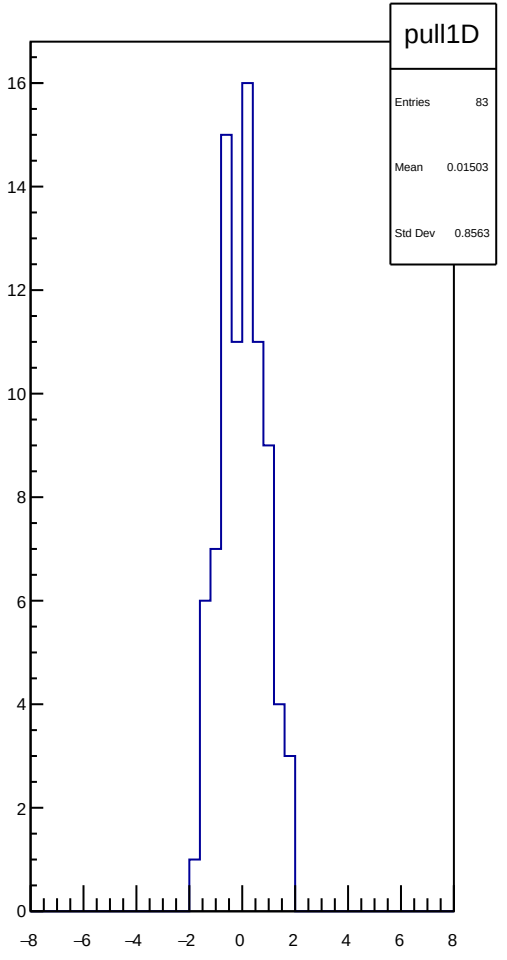

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.42 / 82
p0 −2752 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 110.5
Std Dev 14.68
2
1
0
−1
−2

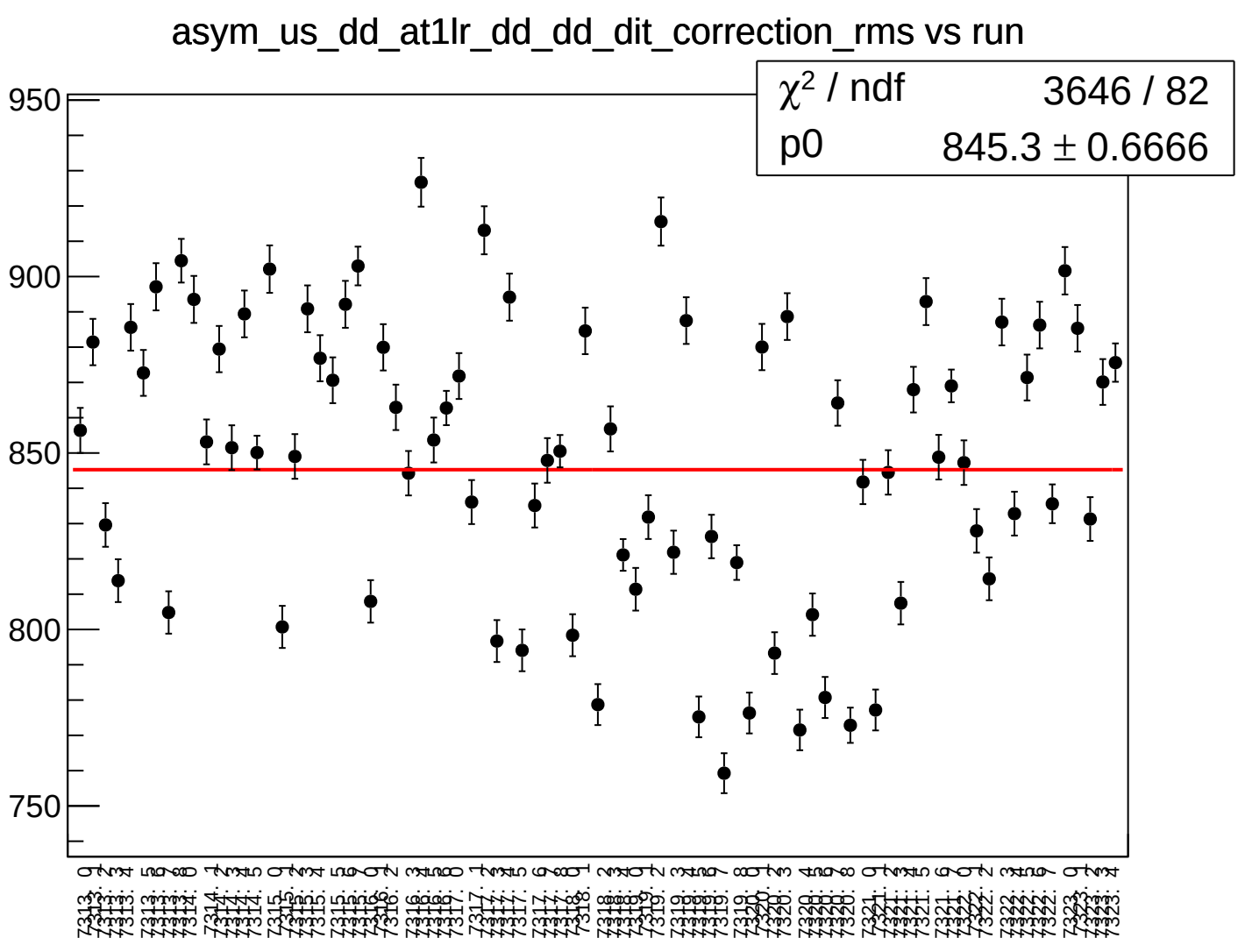

pull1D
Entries 83
Mean 0.01213
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

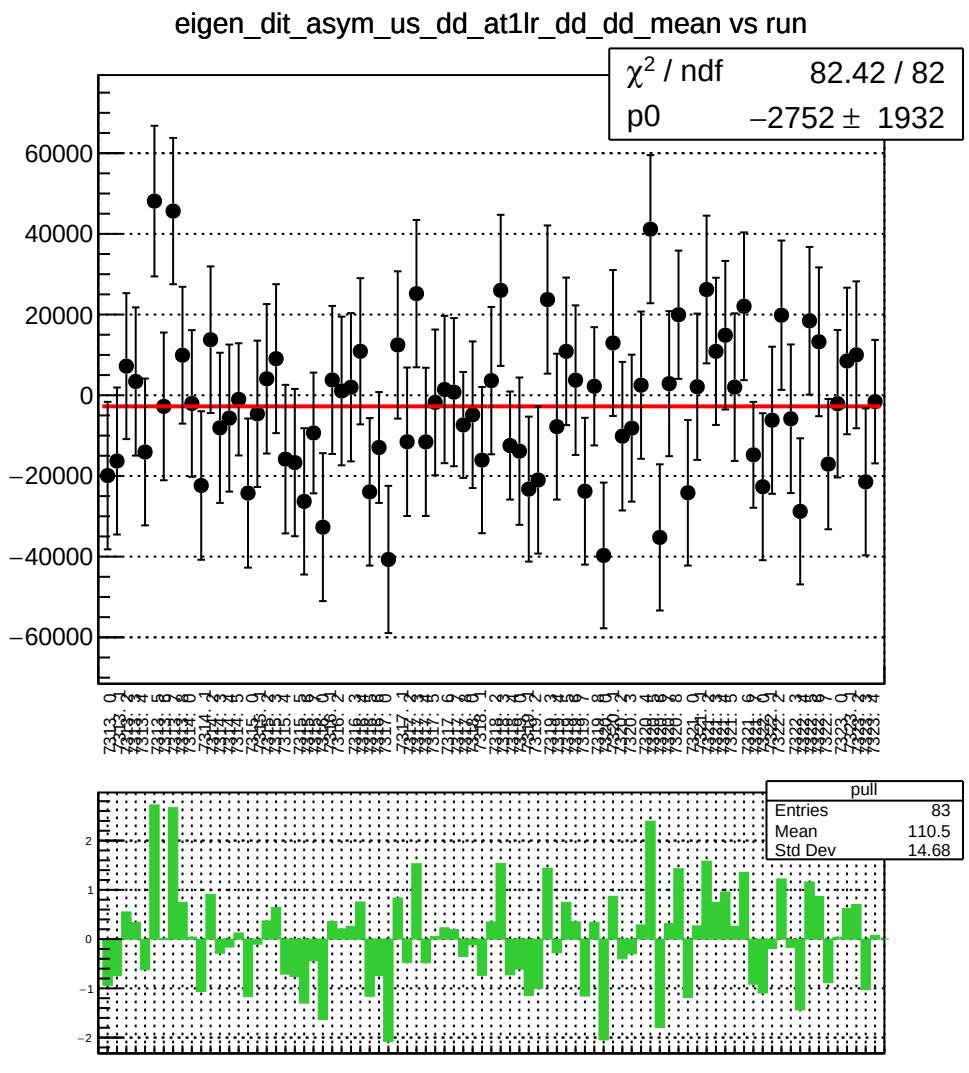

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 99.77 / 82
p0 1734 ± 1.366
1780
1760
1740
1720
1700

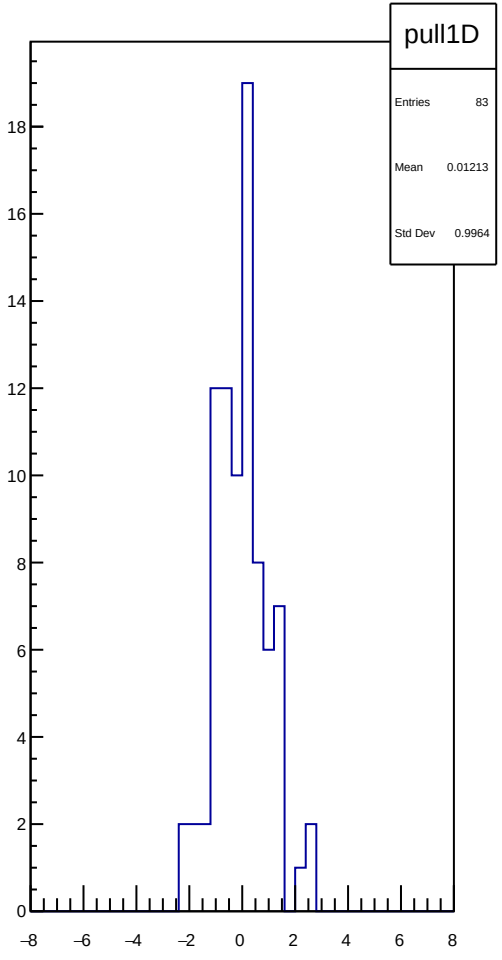
asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run

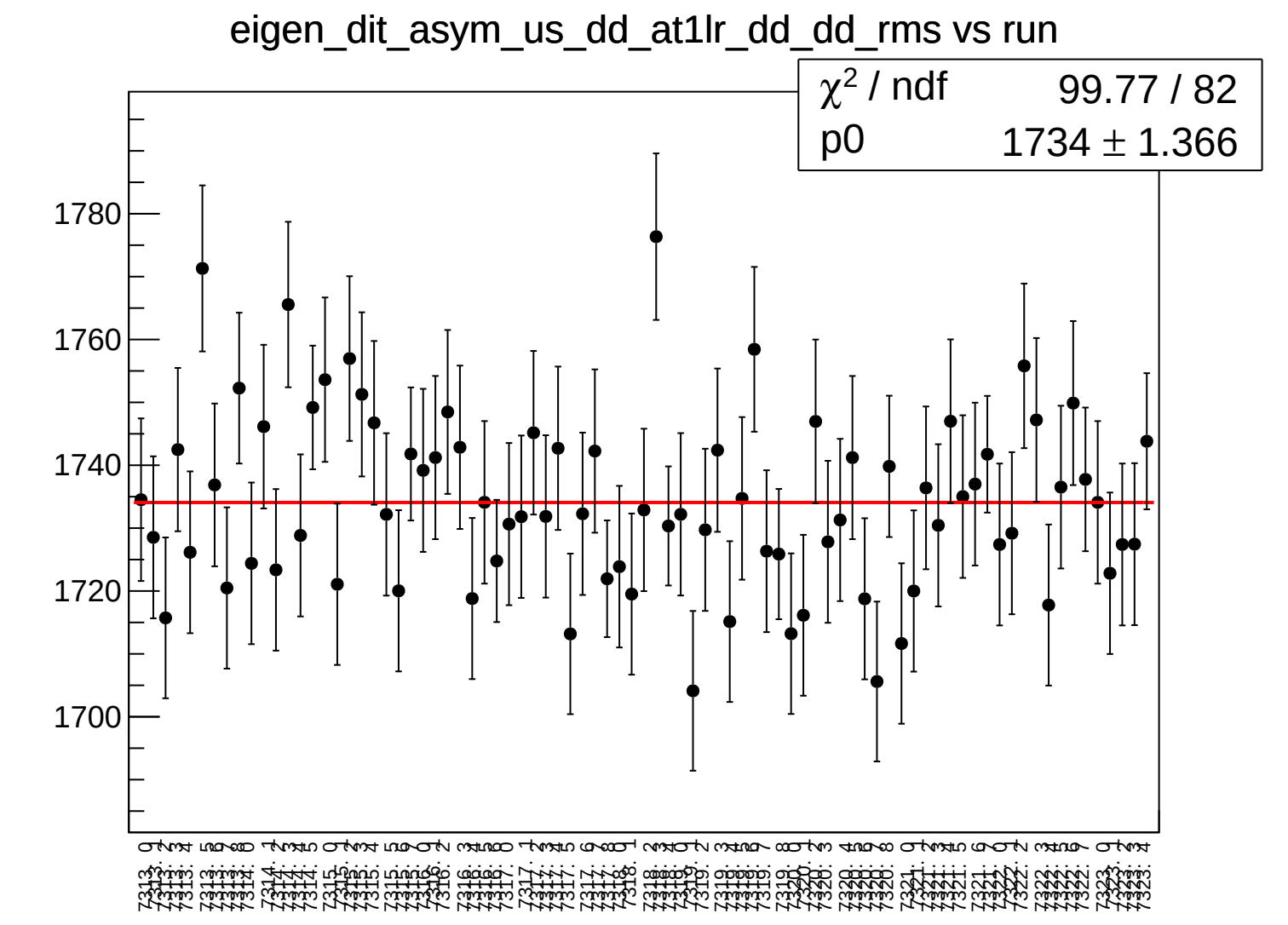


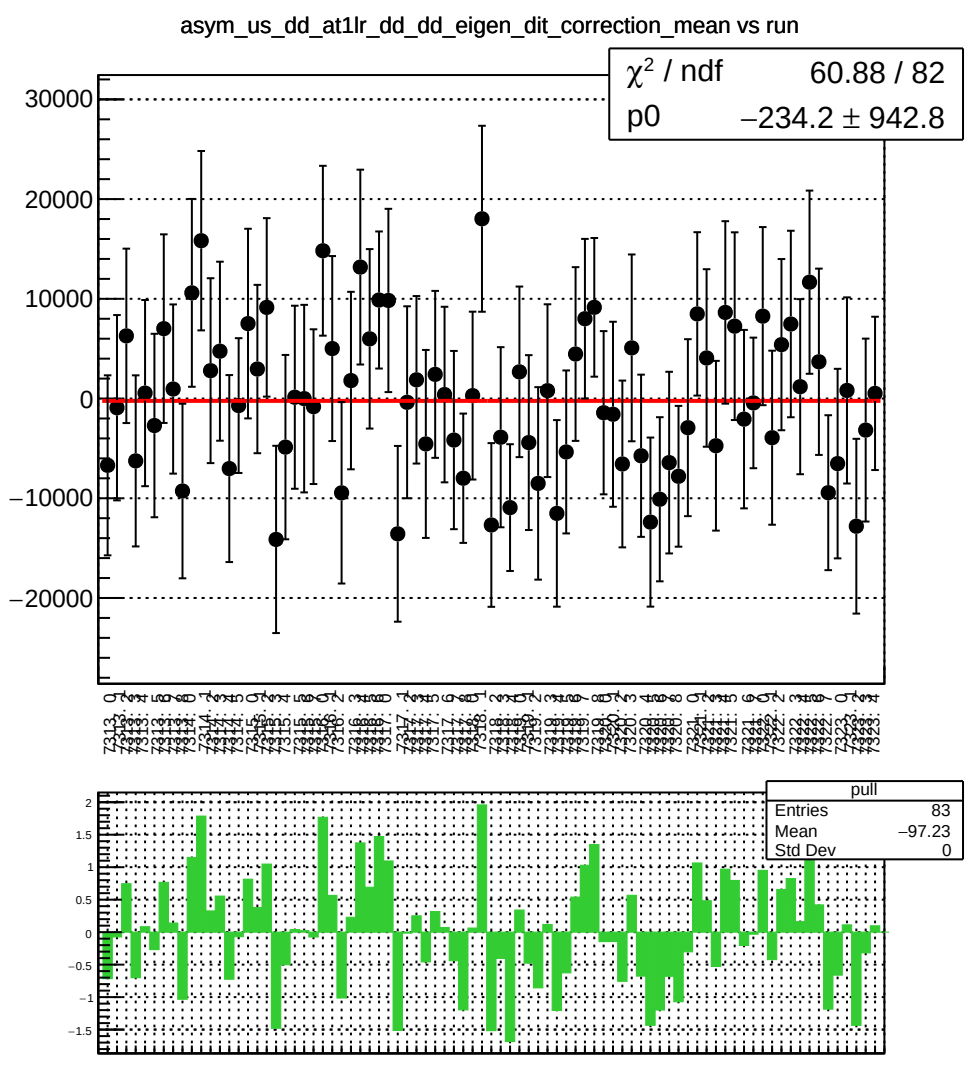


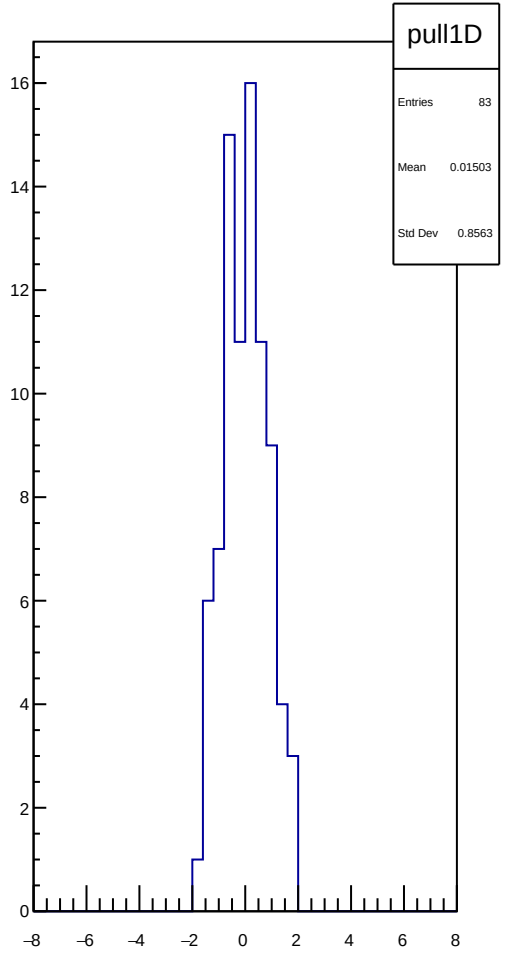

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3646 / 82
p0 845.3 ± 0.6666
950
900
850
800
750

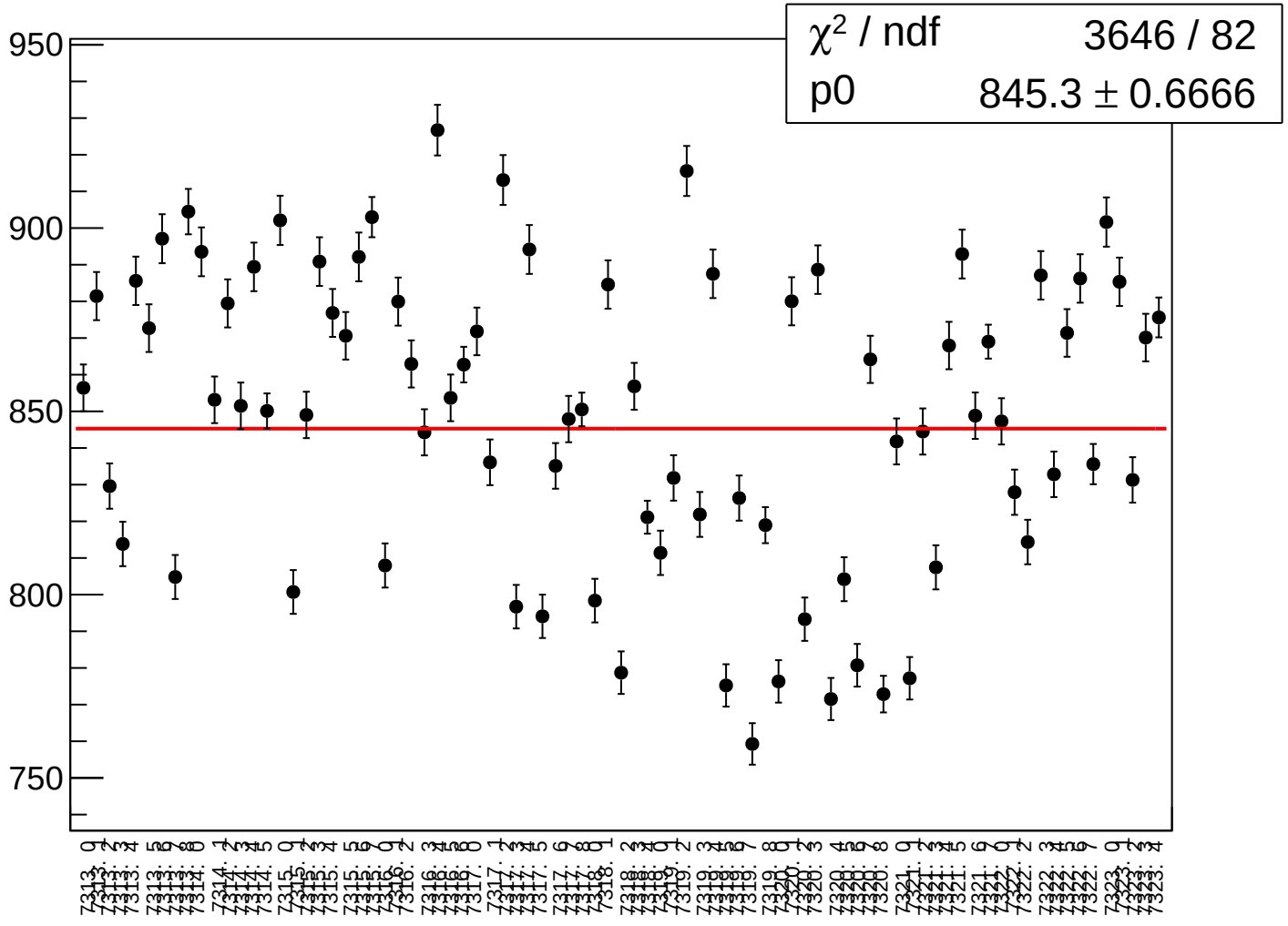

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.42 / 82
p0 −2752 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 110.5
Std Dev 14.68
2
1
0
−1
−2

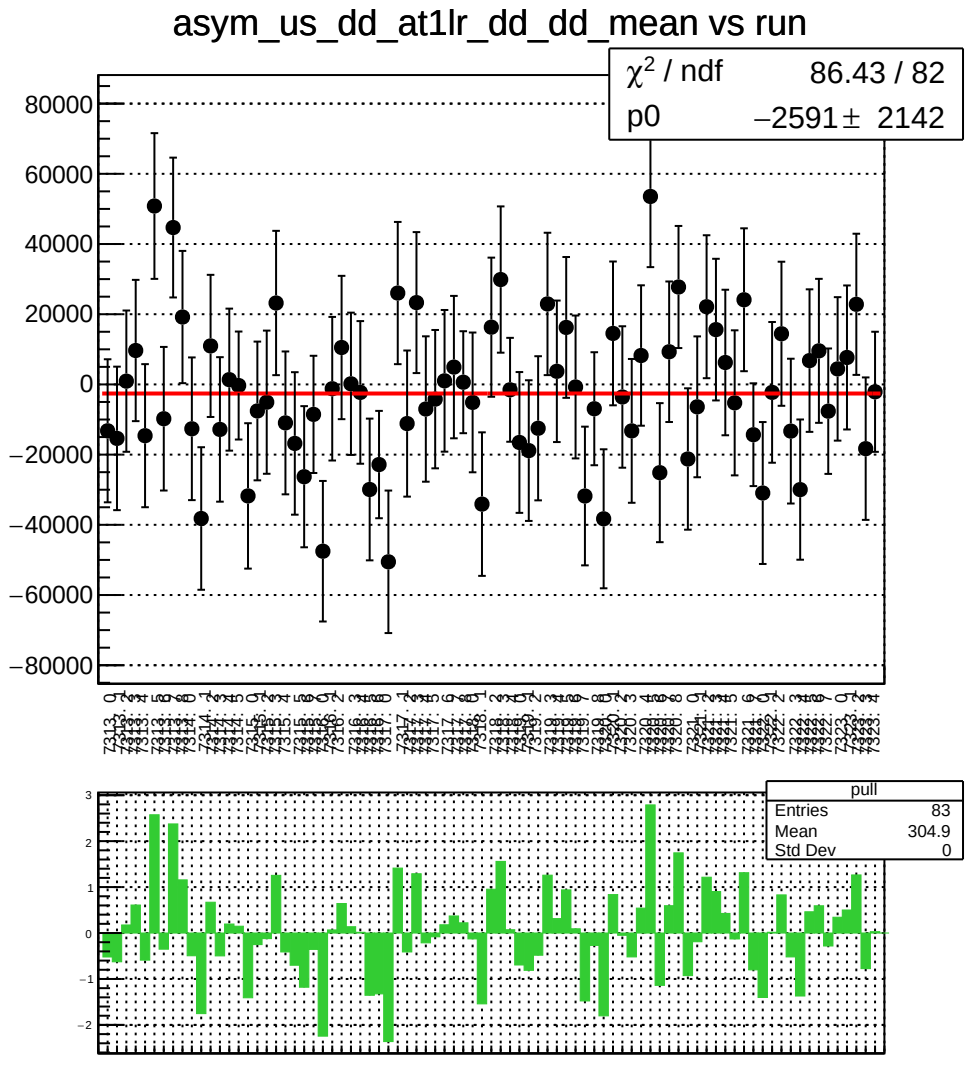

pull1D
Entries 83
Mean 0.01213
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

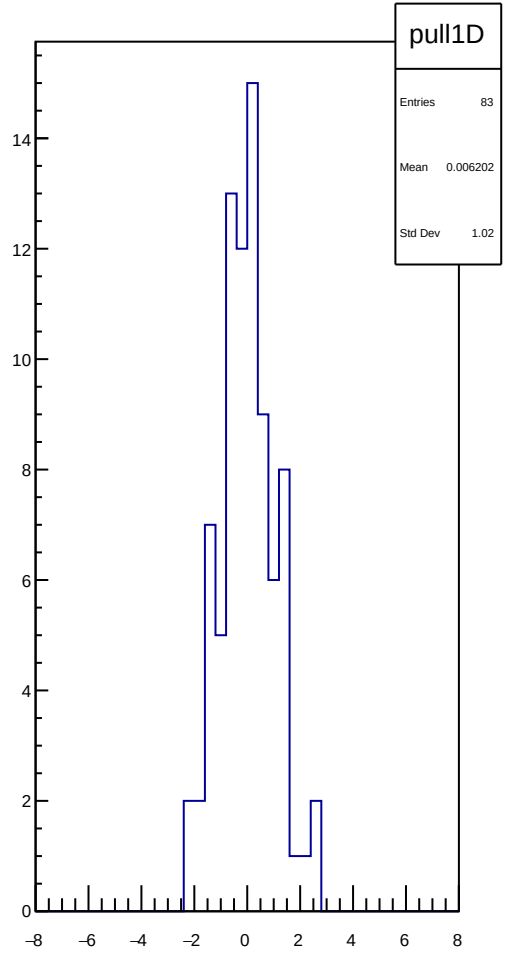

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 99.77 / 82
p0 1734 ± 1.366
1780
1760
1740
1720
1700

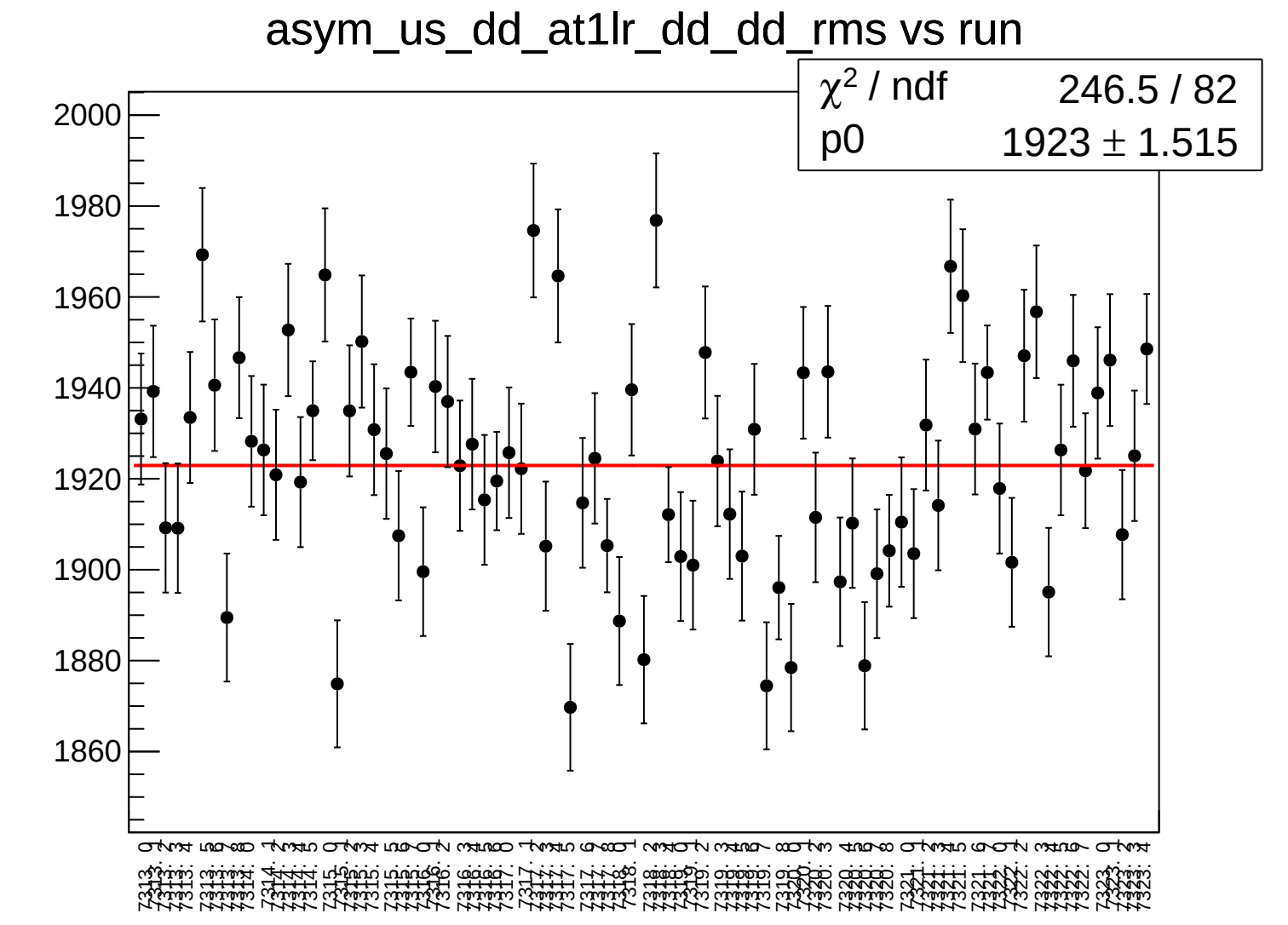

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 60.88 / 82
p0 −234.2 ± 942.8
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −97.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

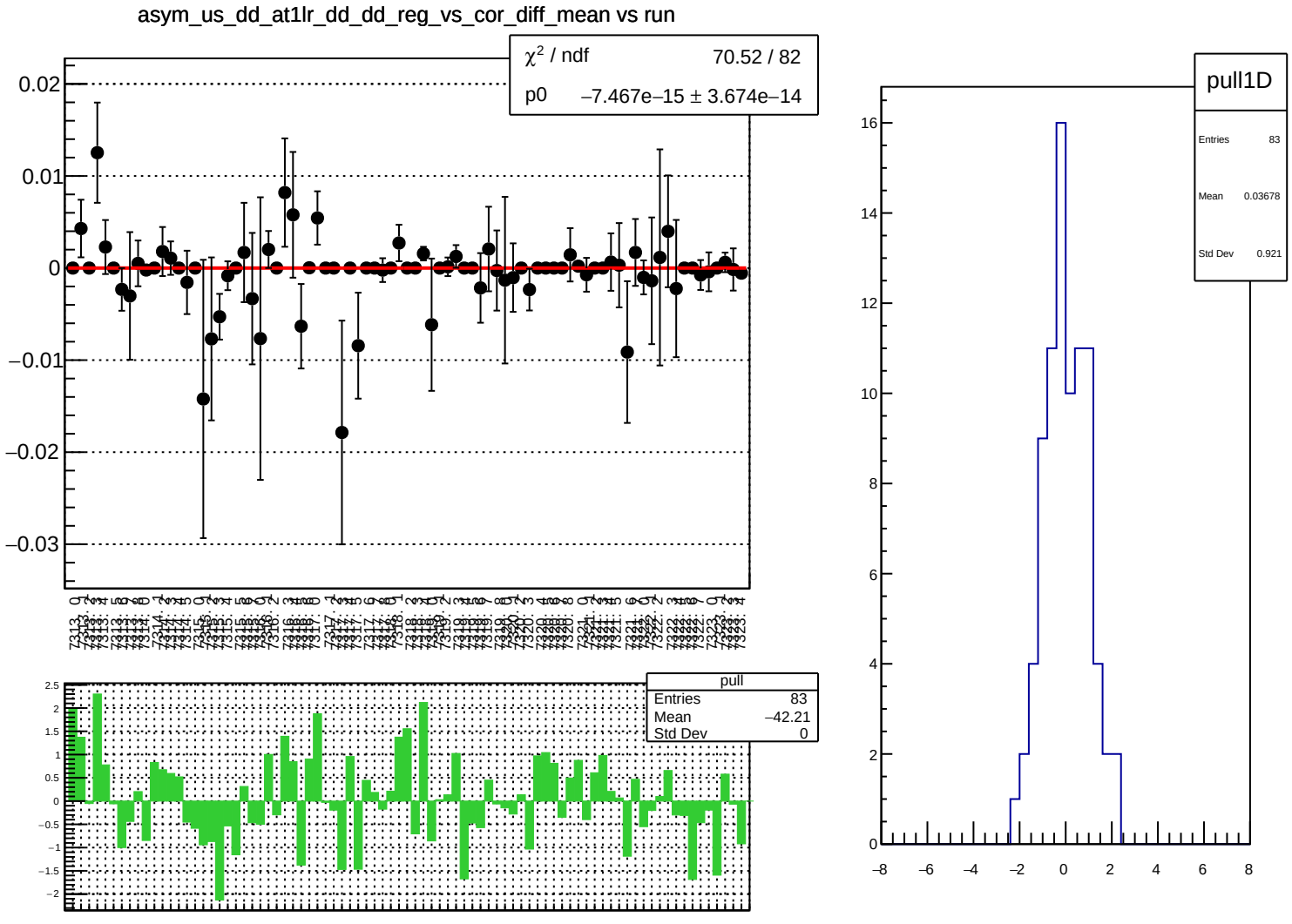

pull1D
Entries 83
Mean 0.01503
Std Dev 0.8563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

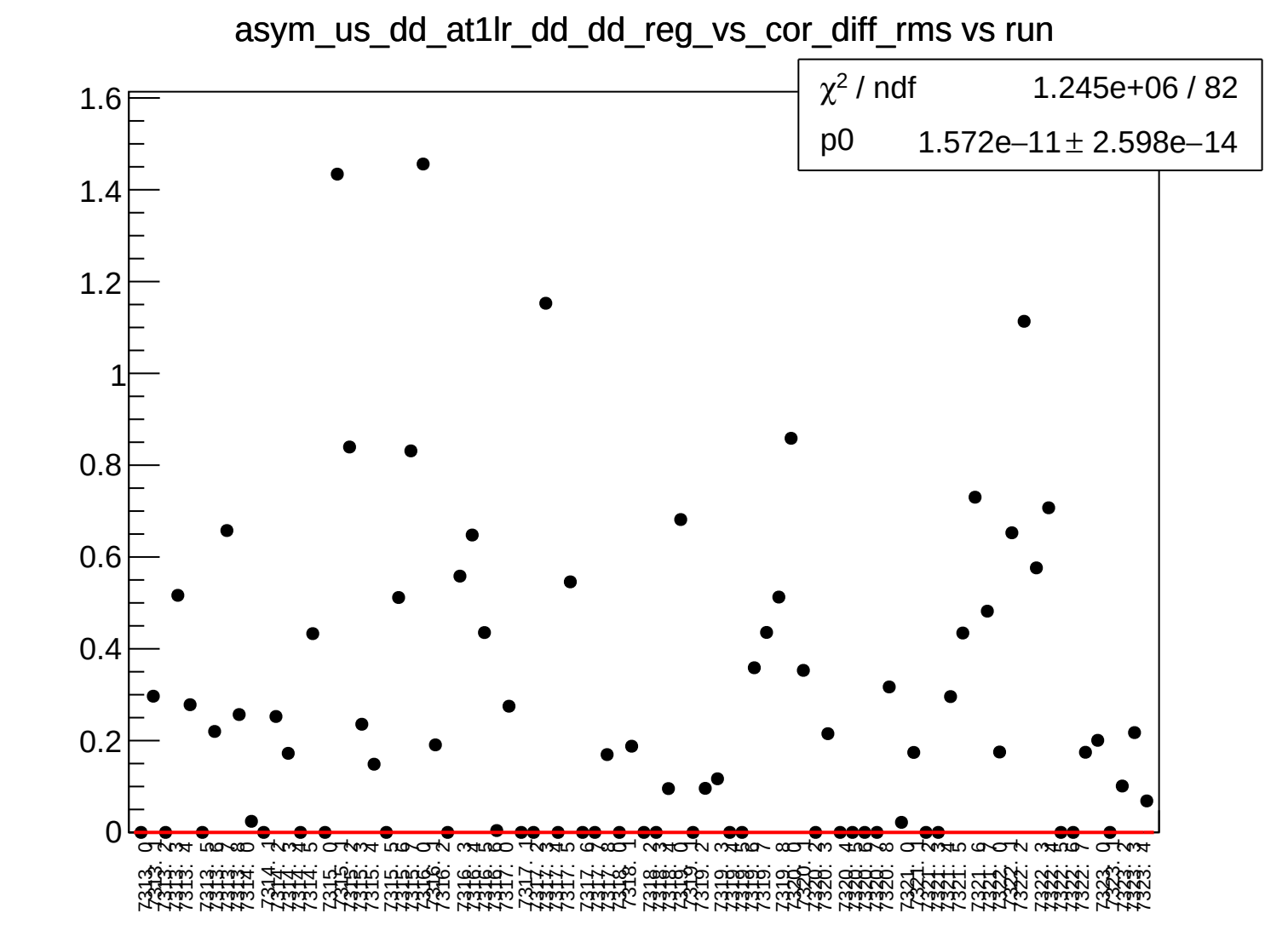

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3646 / 82
p0 845.3 ± 0.6666
950
900
850
800
750

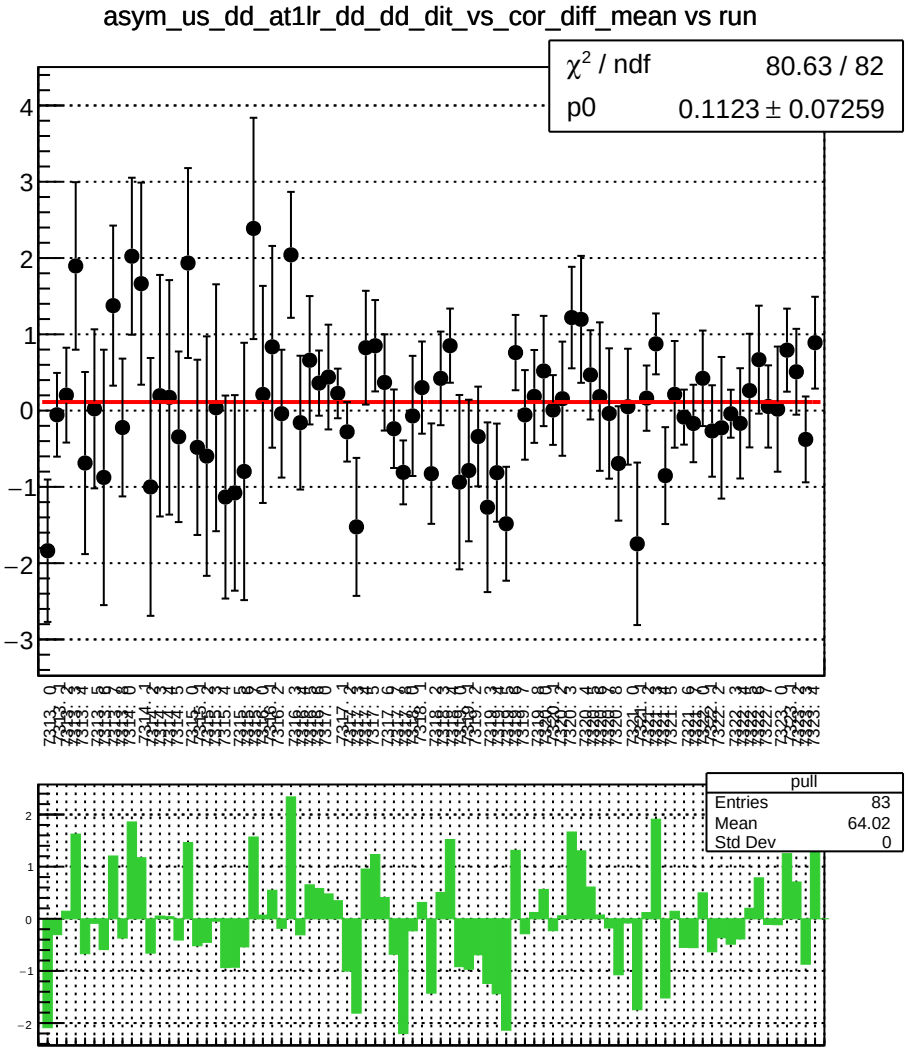

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.43 / 82
p0 −2591 ± 2142
pull
Entries 83
Mean 304.9
Std Dev 0

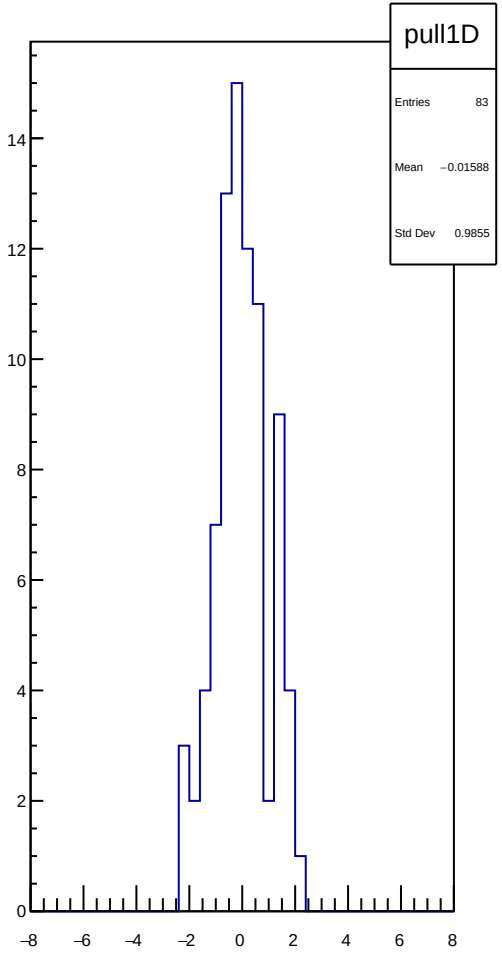

pull1D
Entries 83
Mean 0.006202
Std Dev 1.02

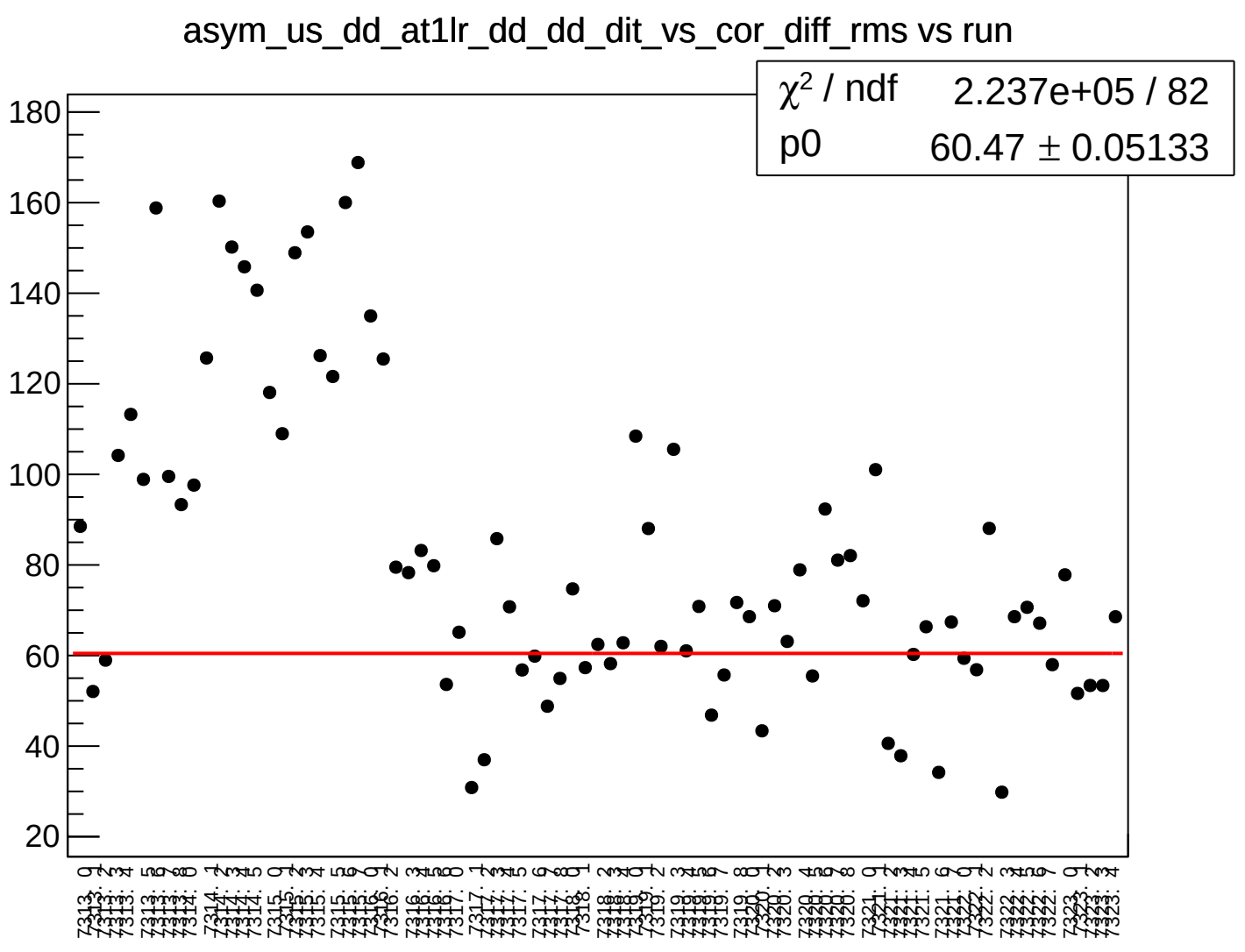

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 246.5 / 82
p0 1923 ± 1.515
2000
1980
1960
1940
1920
1900
1880
1860

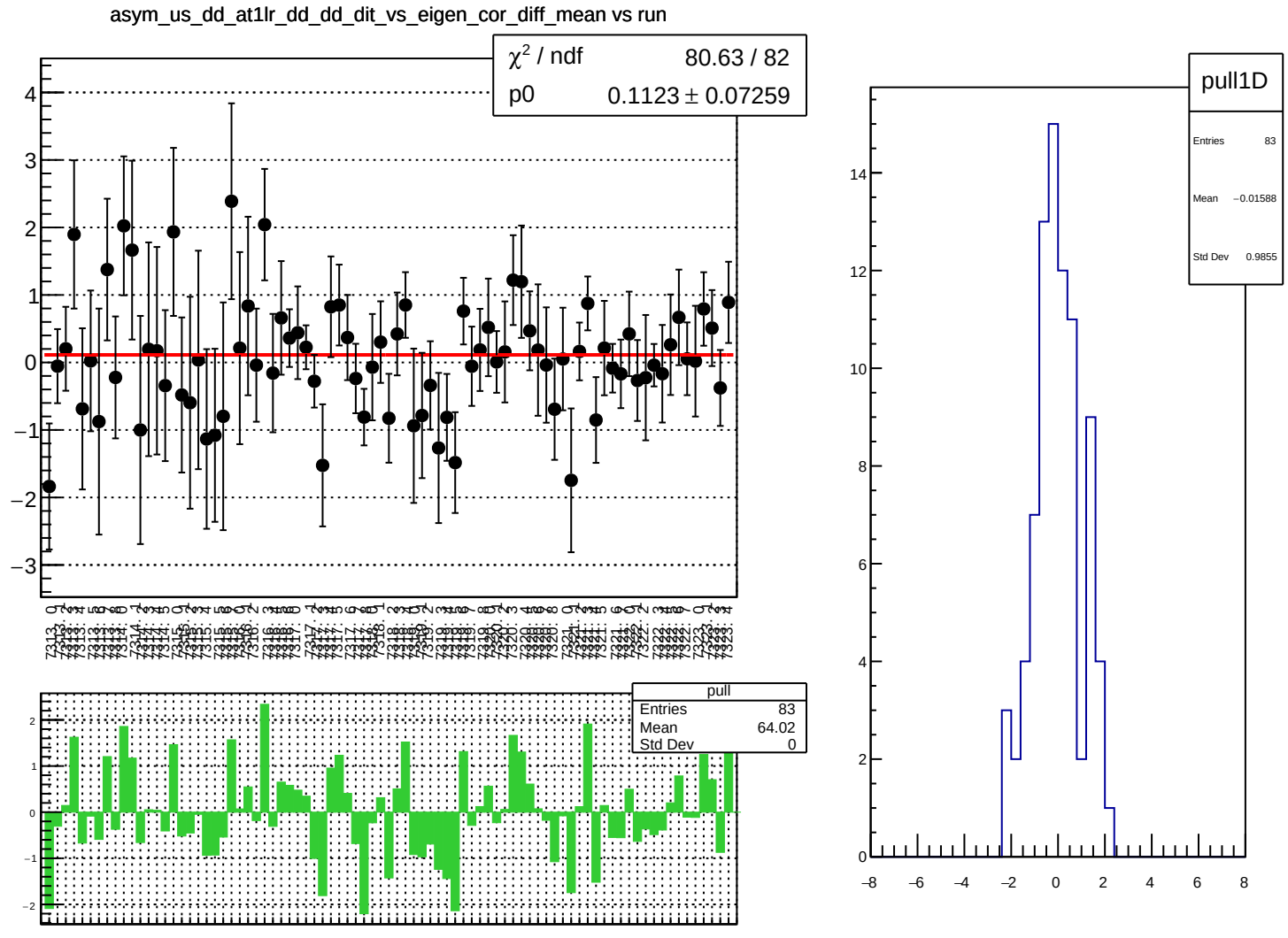

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.52 / 82
p0 −7.467e−15 ± 3.674e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 83
Mean −42.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean 0.03678
Std Dev 0.921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

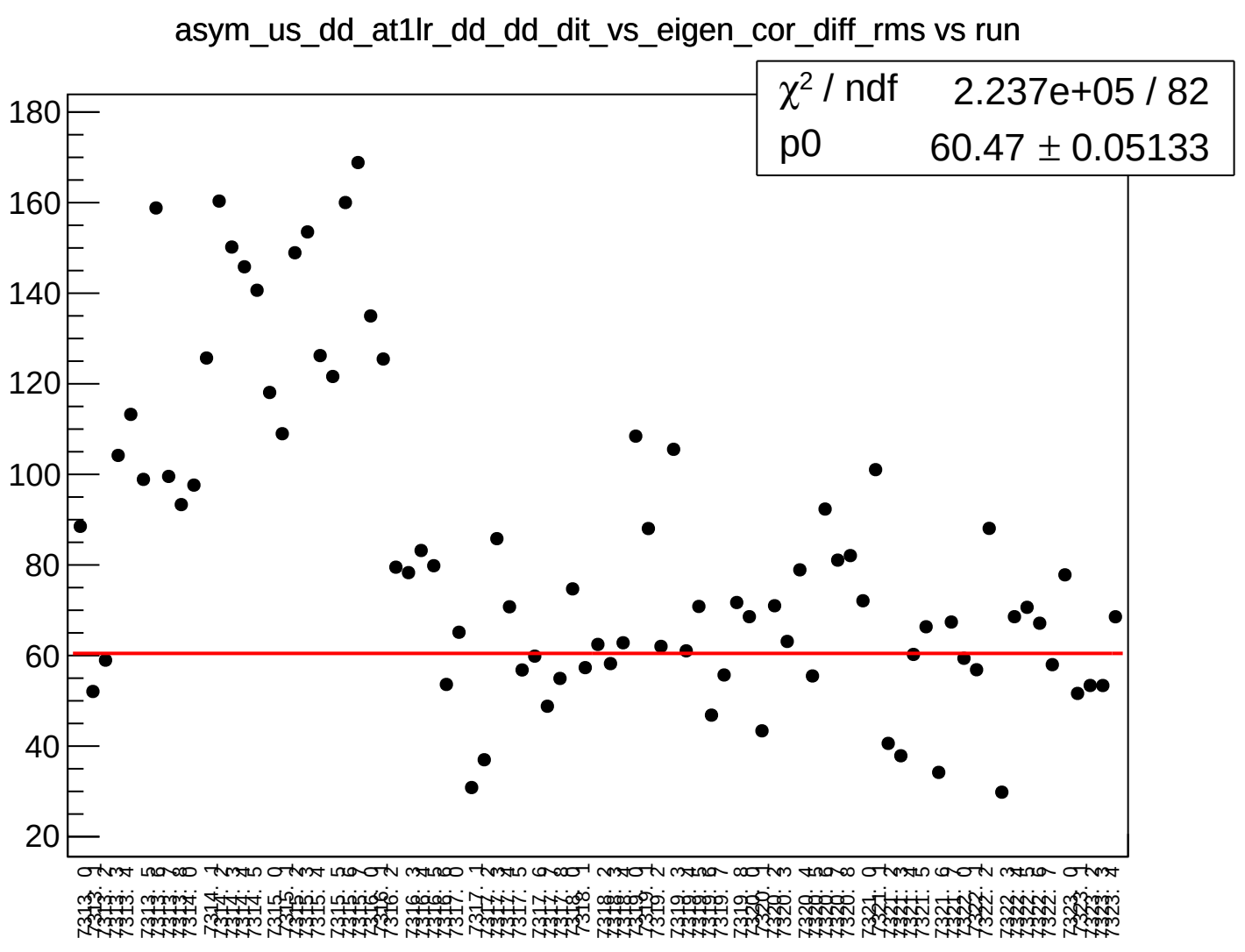

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 82
p0 1.572e−11 ± 2.598e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

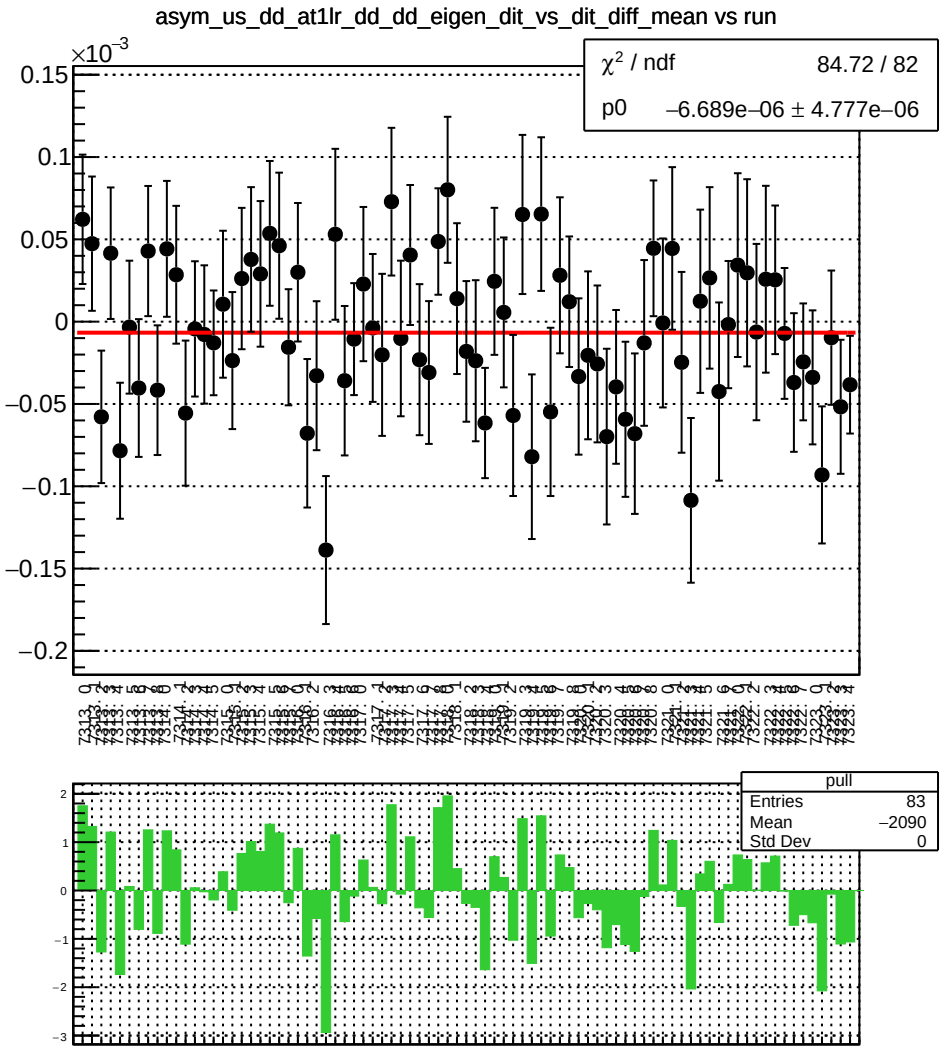

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.63 / 82
p0 0.1123 ± 0.07259
pull
Entries 83
Mean 64.02
Std Dev 0

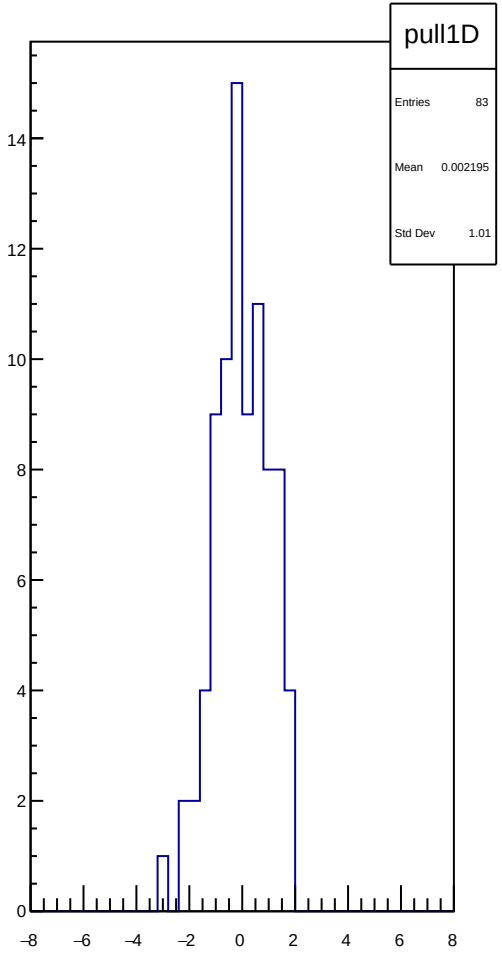

pull1D
Entries 83
Mean −0.01588
Std Dev 0.9855

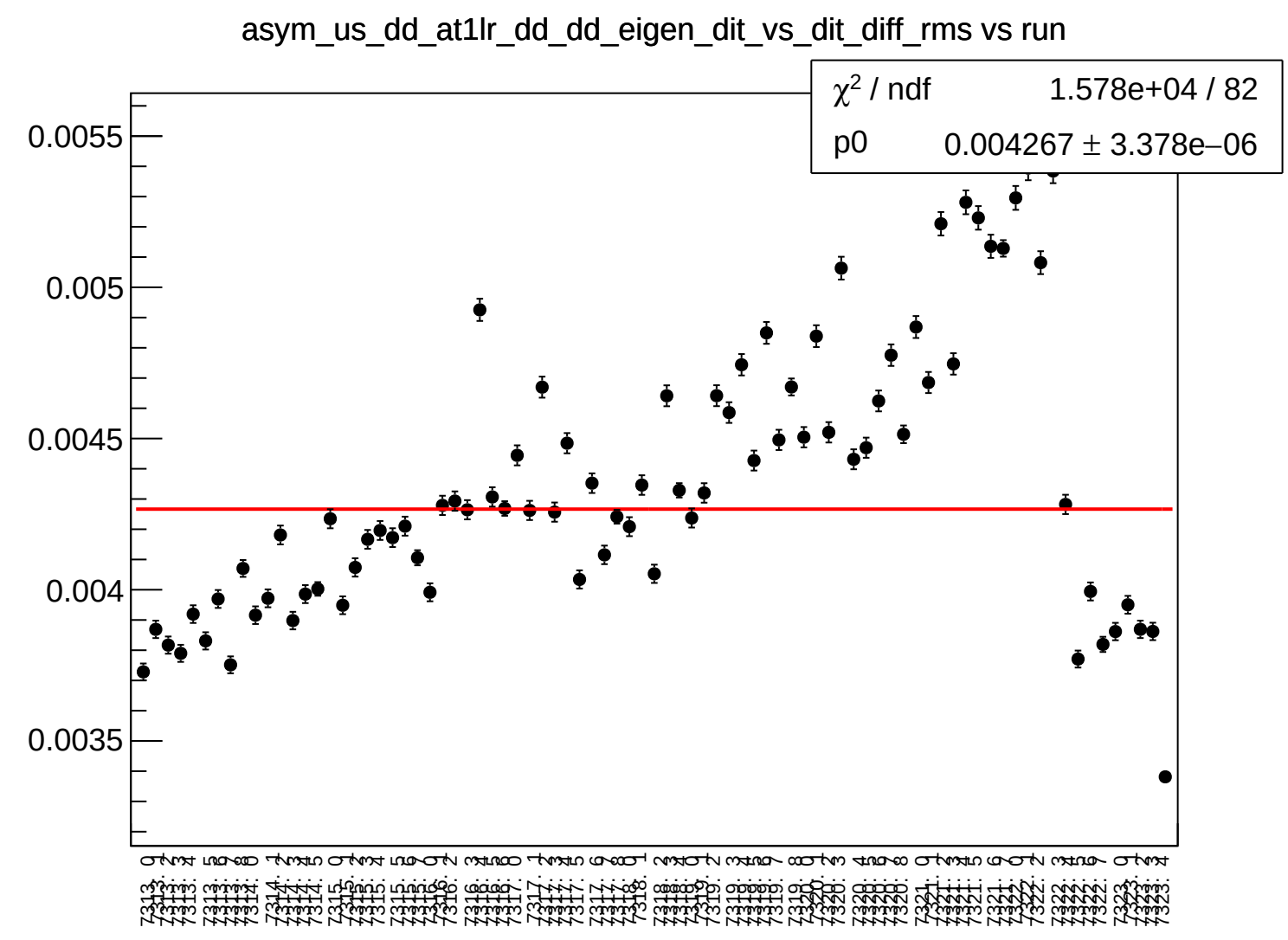

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.237e+05 / 82
p0 60.47 ± 0.05133
180
160
140
120
100
80
60
40
20

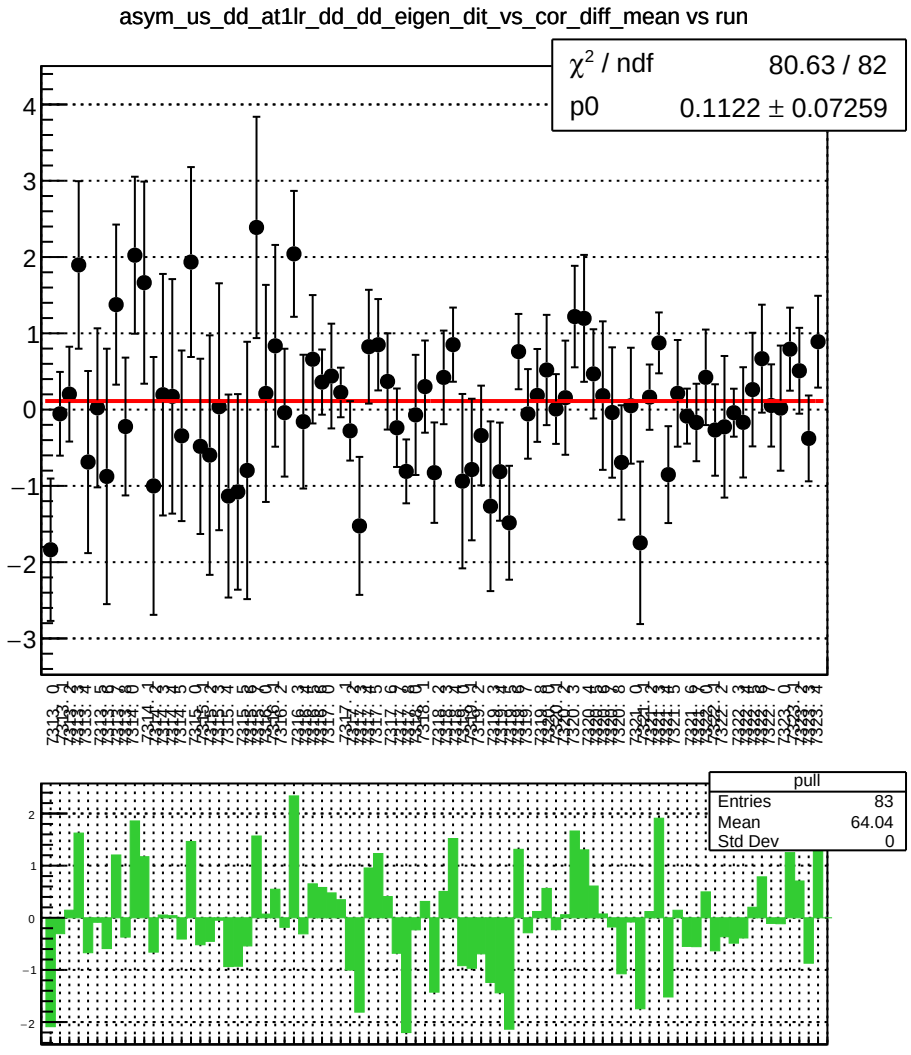

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.63 / 82
p0 0.1123 ± 0.07259
pull
Entries 83
Mean 64.02
Std Dev 0
pull1D
Entries 83
Mean −0.01588
Std Dev 0.9855

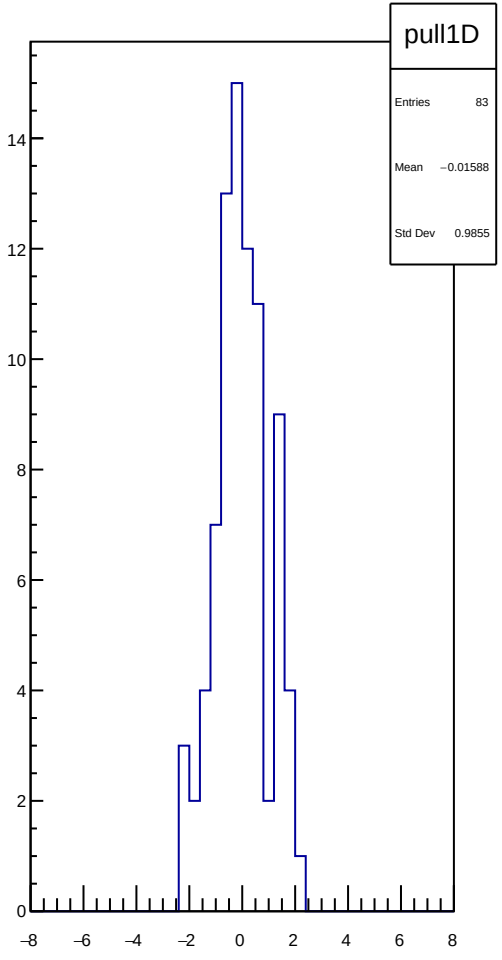

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.237e+05 / 82
p0 60.47 ± 0.05133
180
160
140
120
100
80
60
40
20

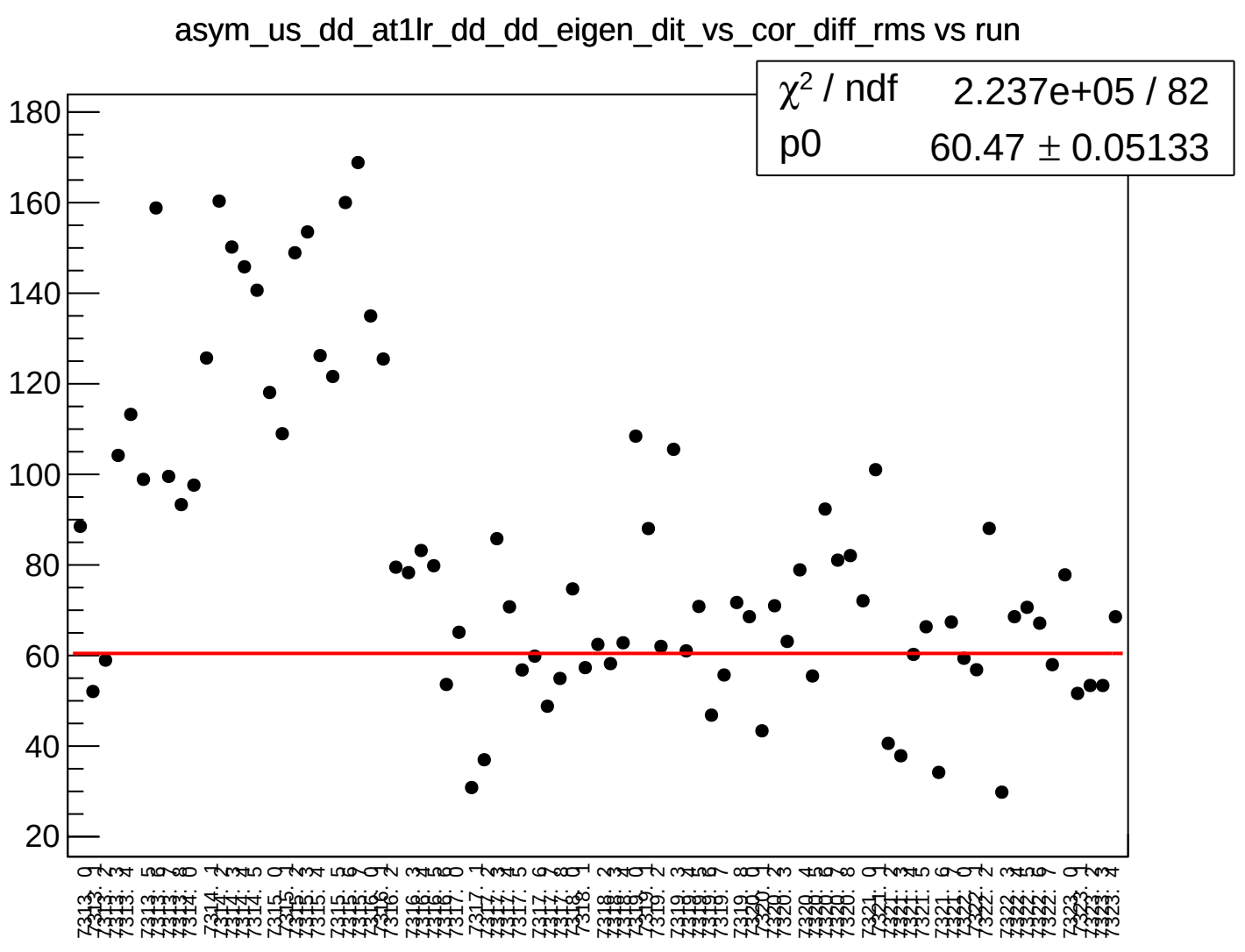

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.72 / 82
p0 −6.689e−06 ± 4.777e−06
pull
Entries 83
Mean −2090
Std Dev 0

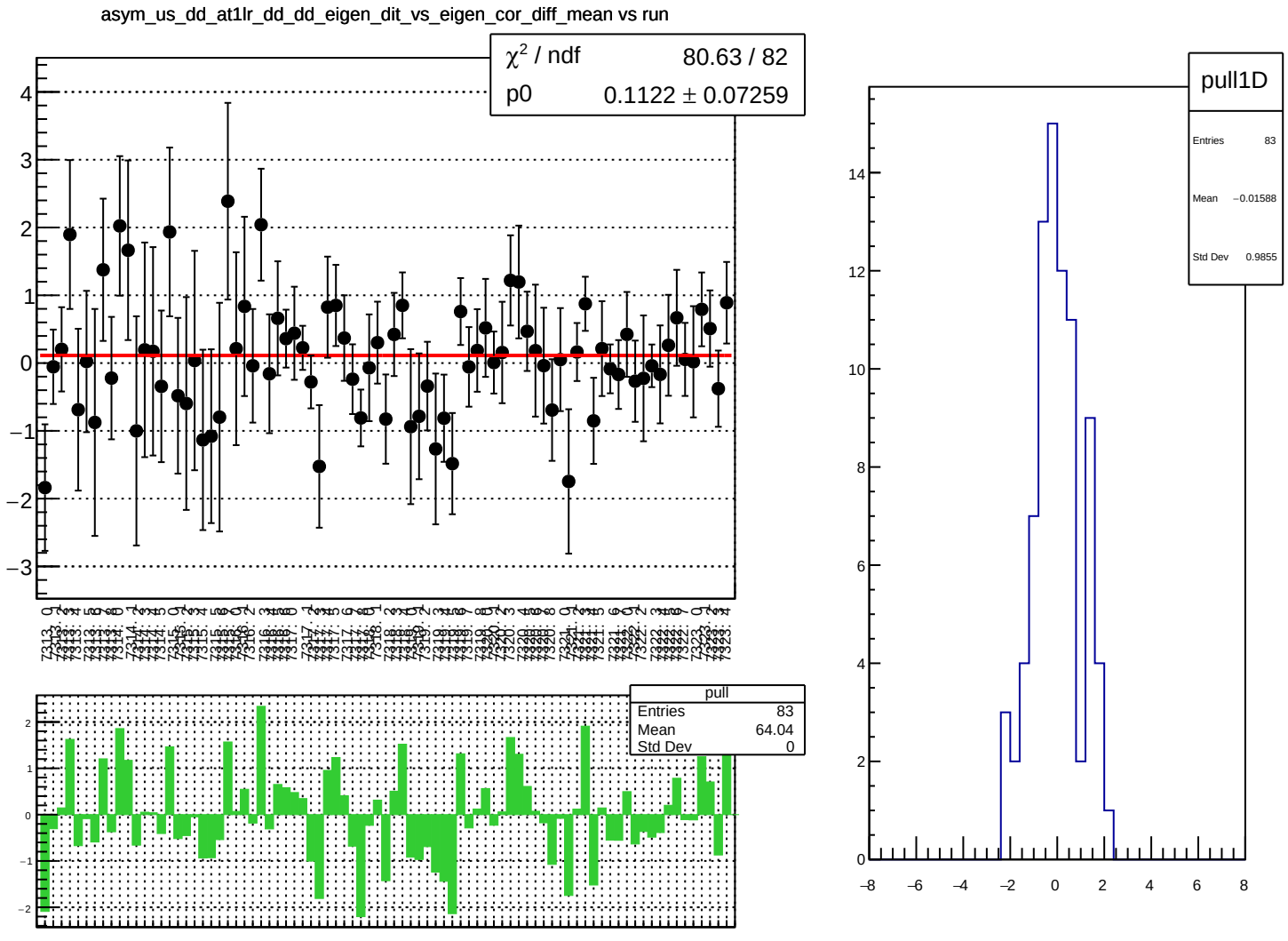

pull1D
Entries 83
Mean 0.002195
Std Dev 1.01

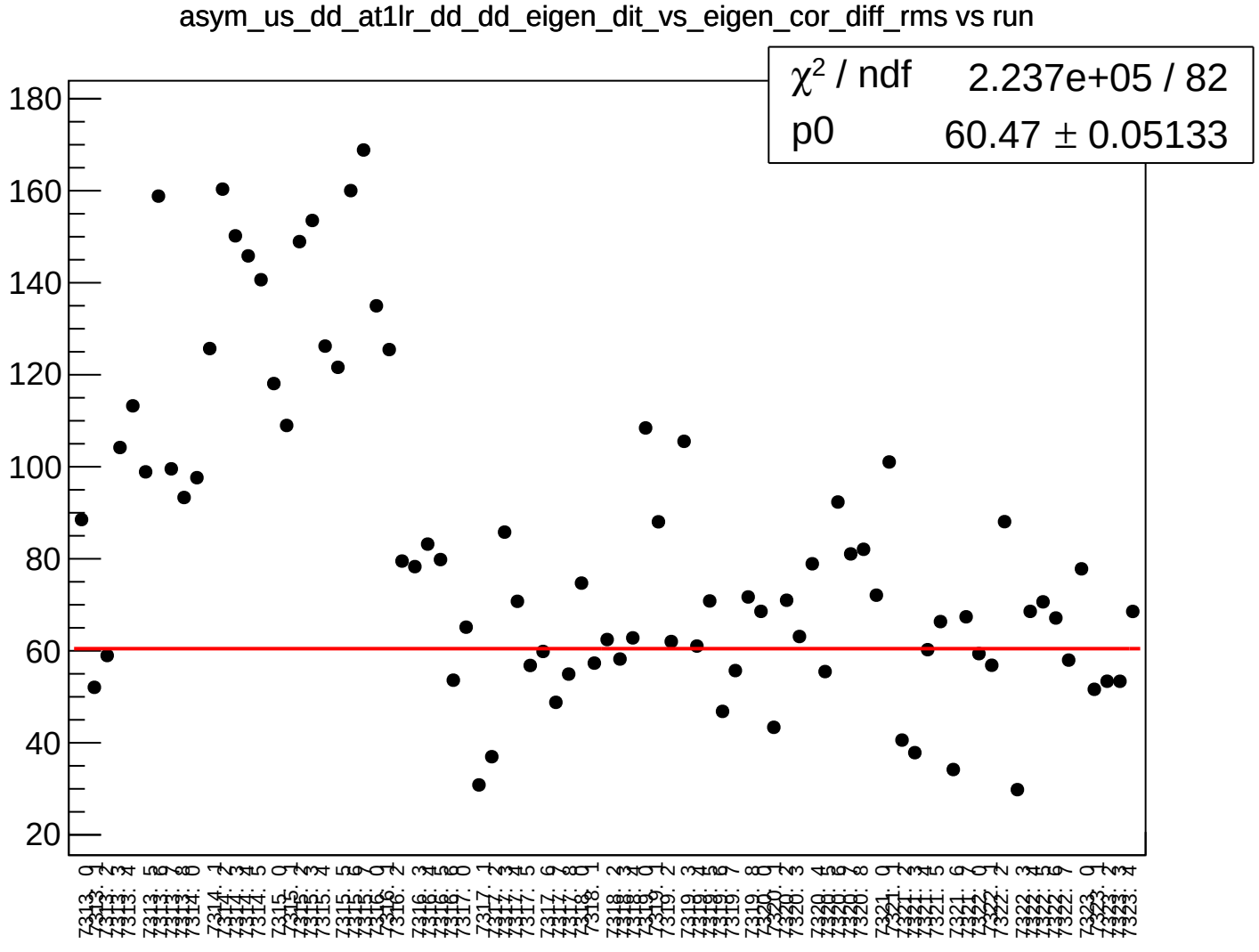

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.578e+04 / 82
p0 0.004267 ± 3.378e−06
0.0055
0.005
0.0045
0.004
0.0035

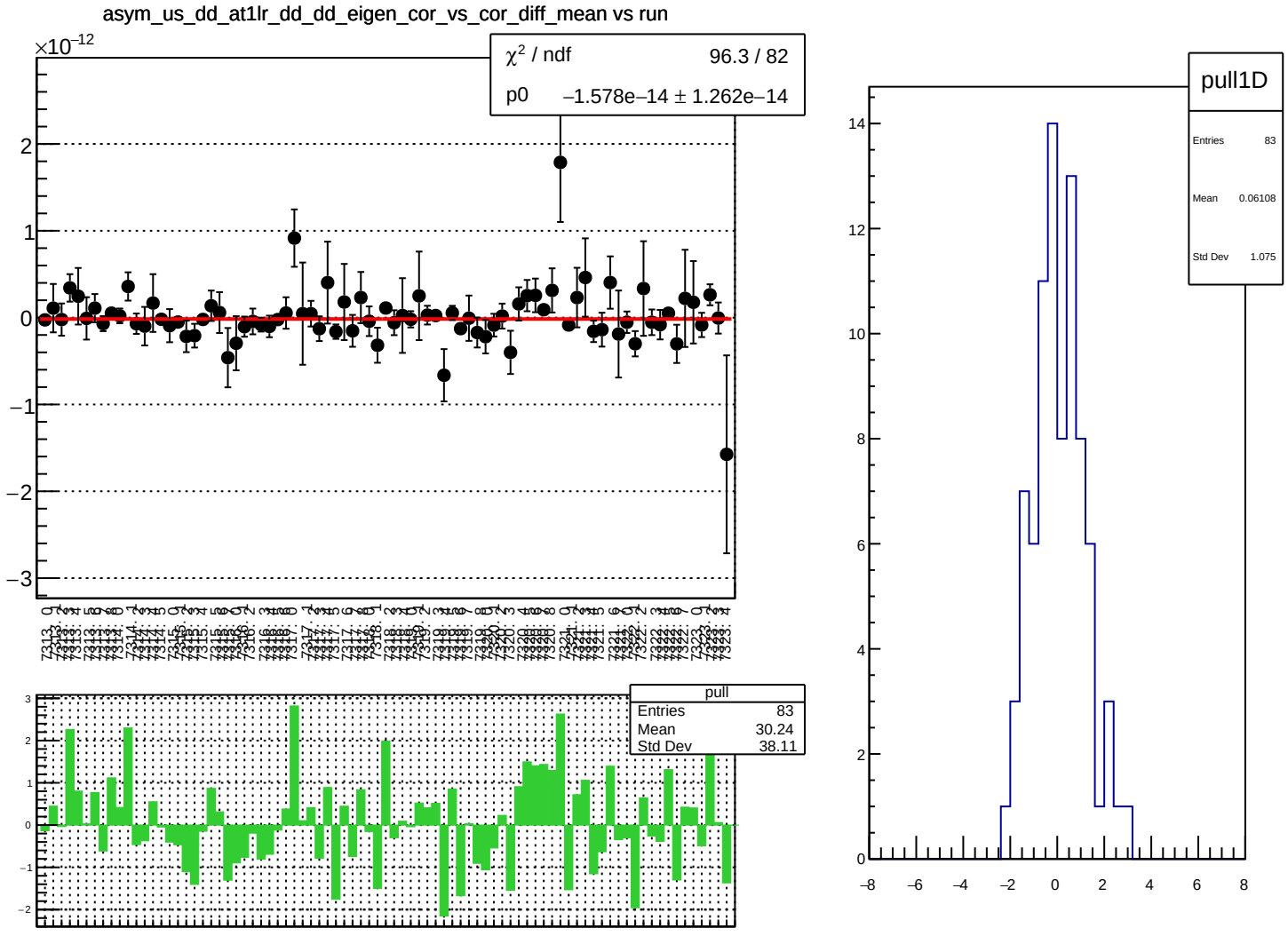

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.63 / 82
p0 0.1122 ± 0.07259
pull
Entries 83
Mean 64.04
Std Dev 0

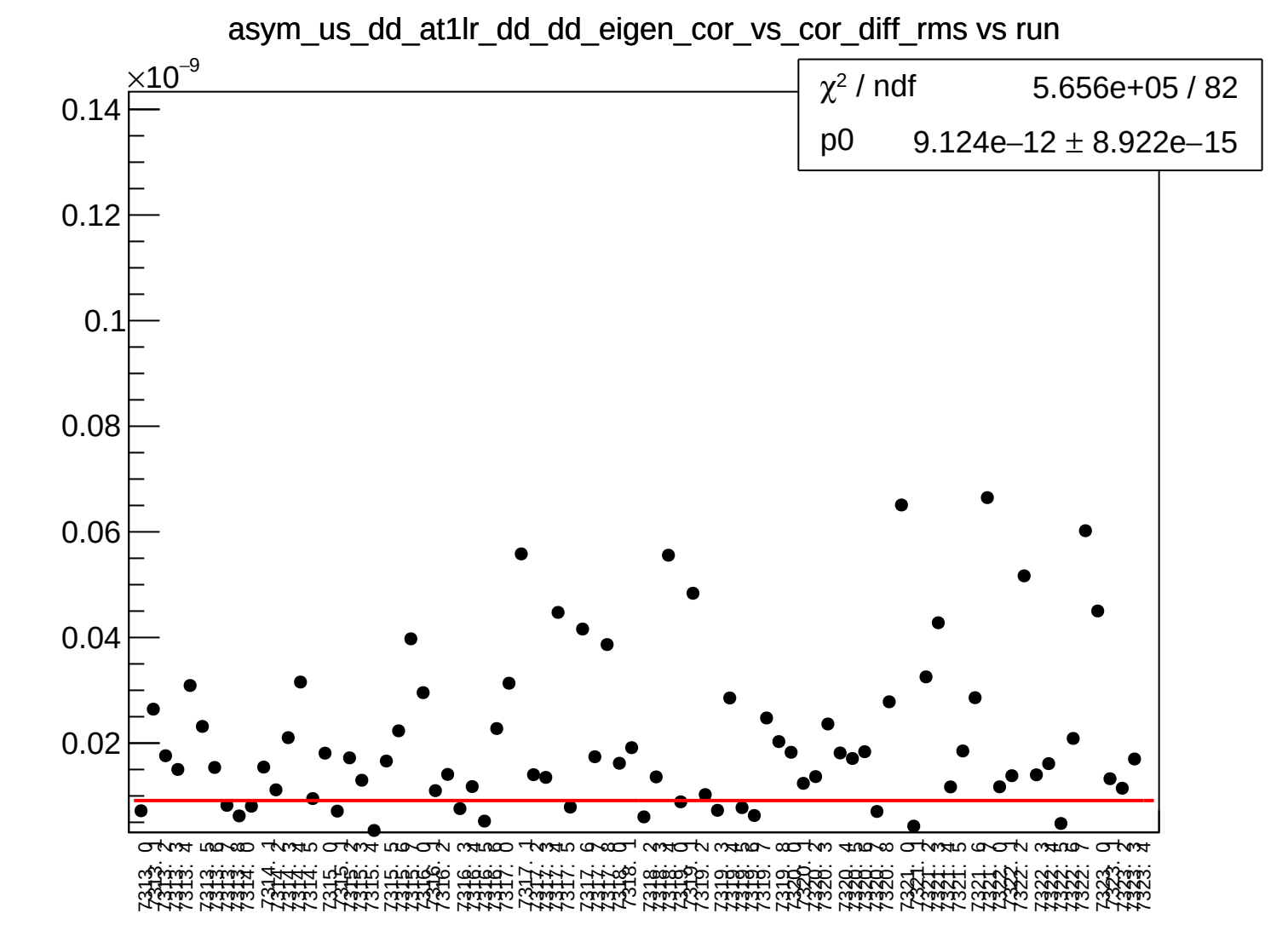

pull1D
Entries 83
Mean −0.01588
Std Dev 0.9855

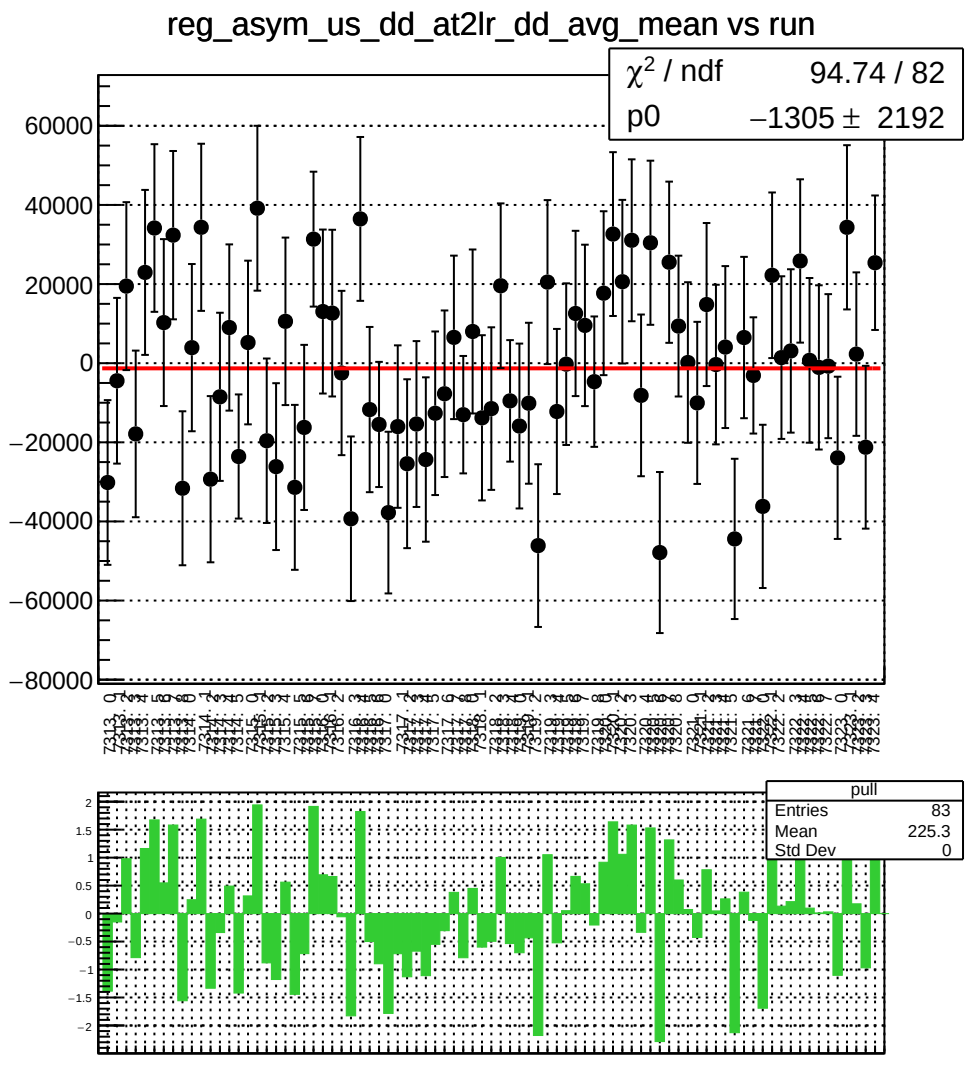

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.237e+05 / 82
p0 60.47 ± 0.05133
180
160
140
120
100
80
60
40
20

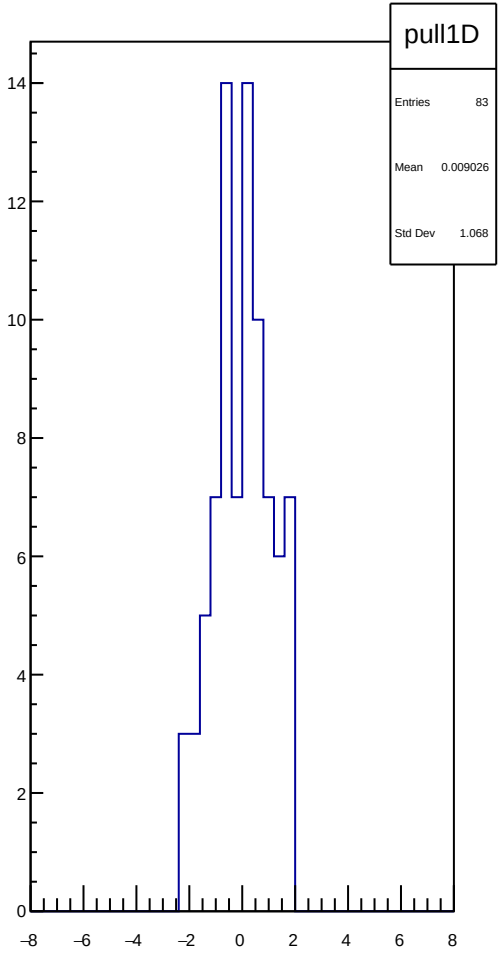

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.63 / 82
p0 0.1122 ± 0.07259
pull
Entries 83
Mean 64.04
Std Dev 0
pull1D
Entries 83
Mean −0.01588
Std Dev 0.9855

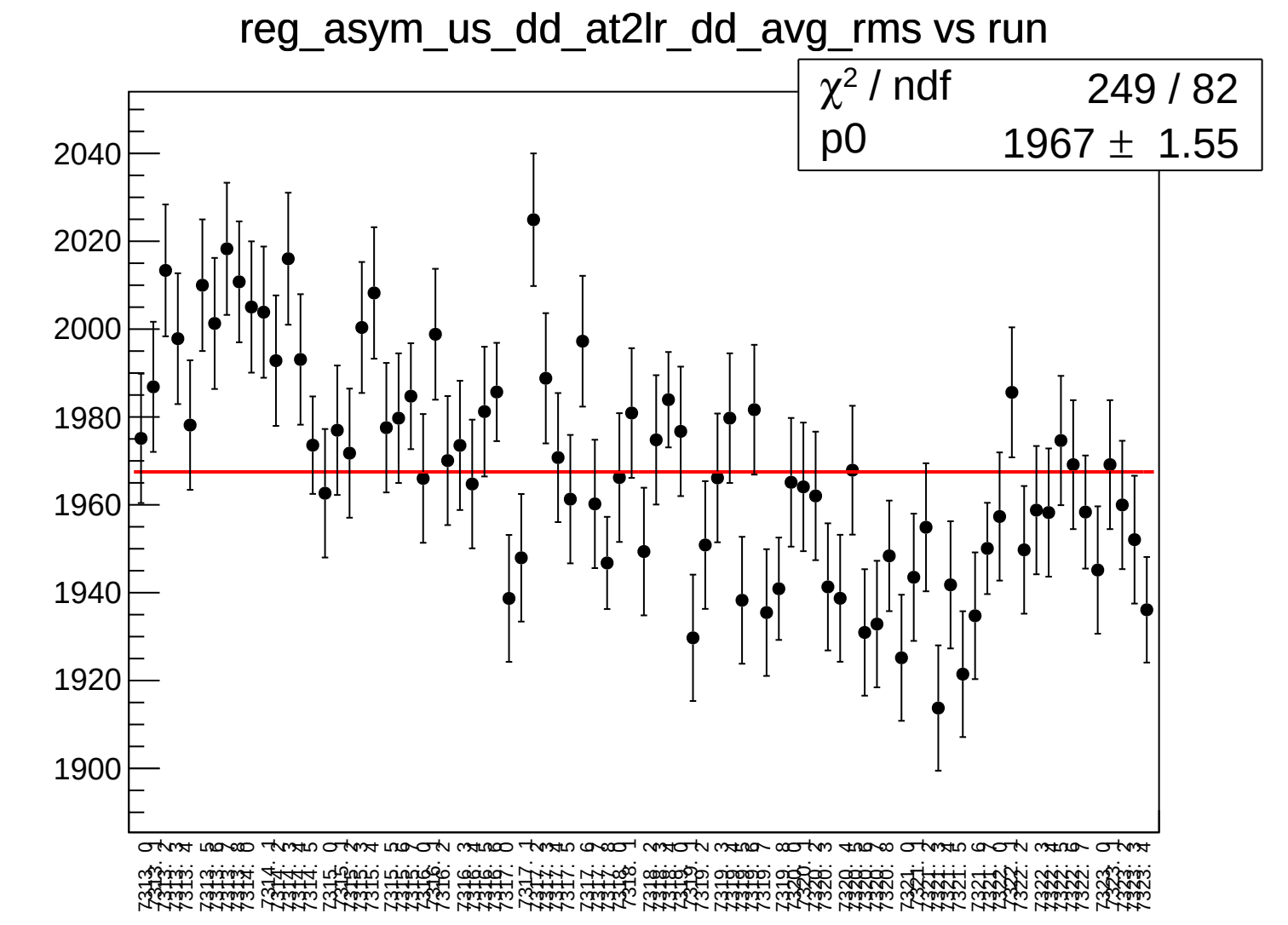

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.237e+05 / 82
p0 60.47 ± 0.05133
180
160
140
120
100
80
60
40
20

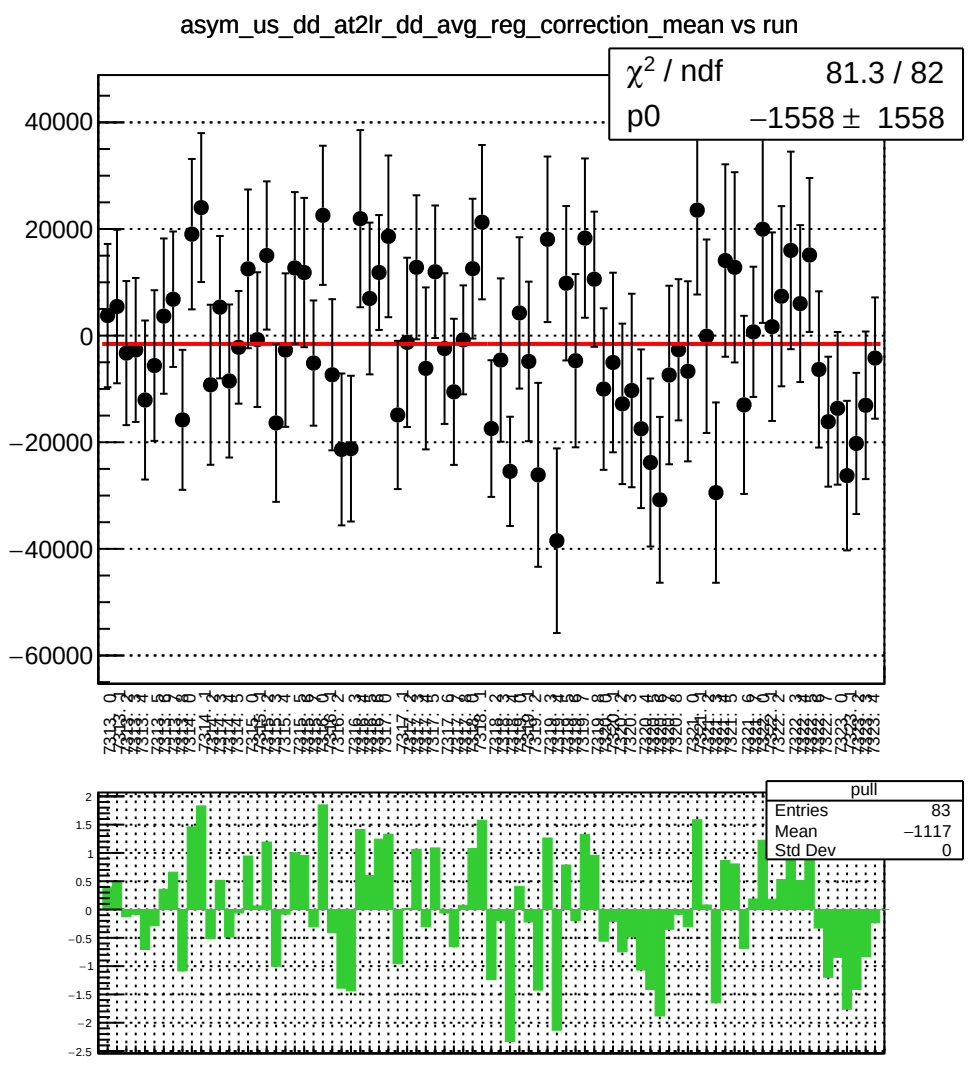

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.3 / 82
p0 −1.578e−14 ± 1.262e−14
pull
Entries 83
Mean 30.24
Std Dev 38.11
pull1D
Entries 83
Mean 0.06108
Std Dev 1.075

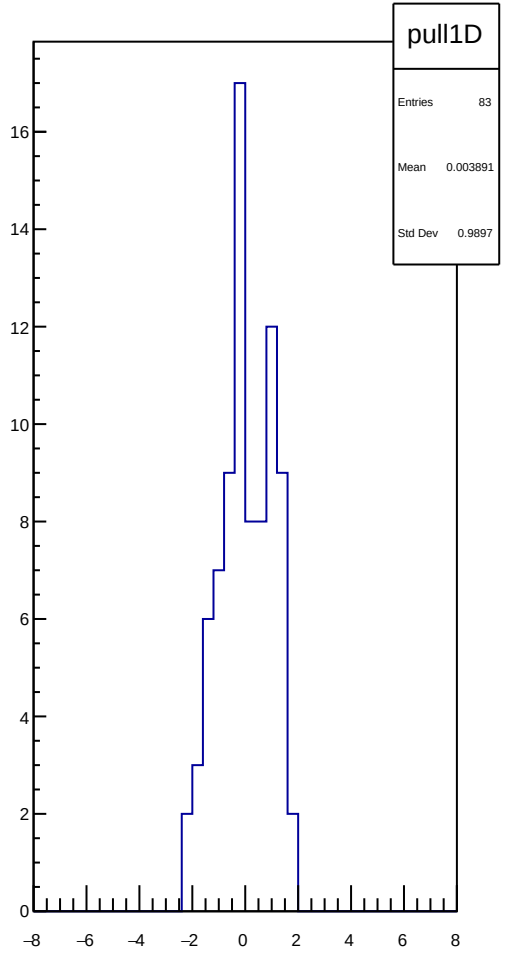

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.656e+05 / 82
p0 9.124e−12 ± 8.922e−15
0.14
0.12
0.1
0.08
0.06
0.04
0.02

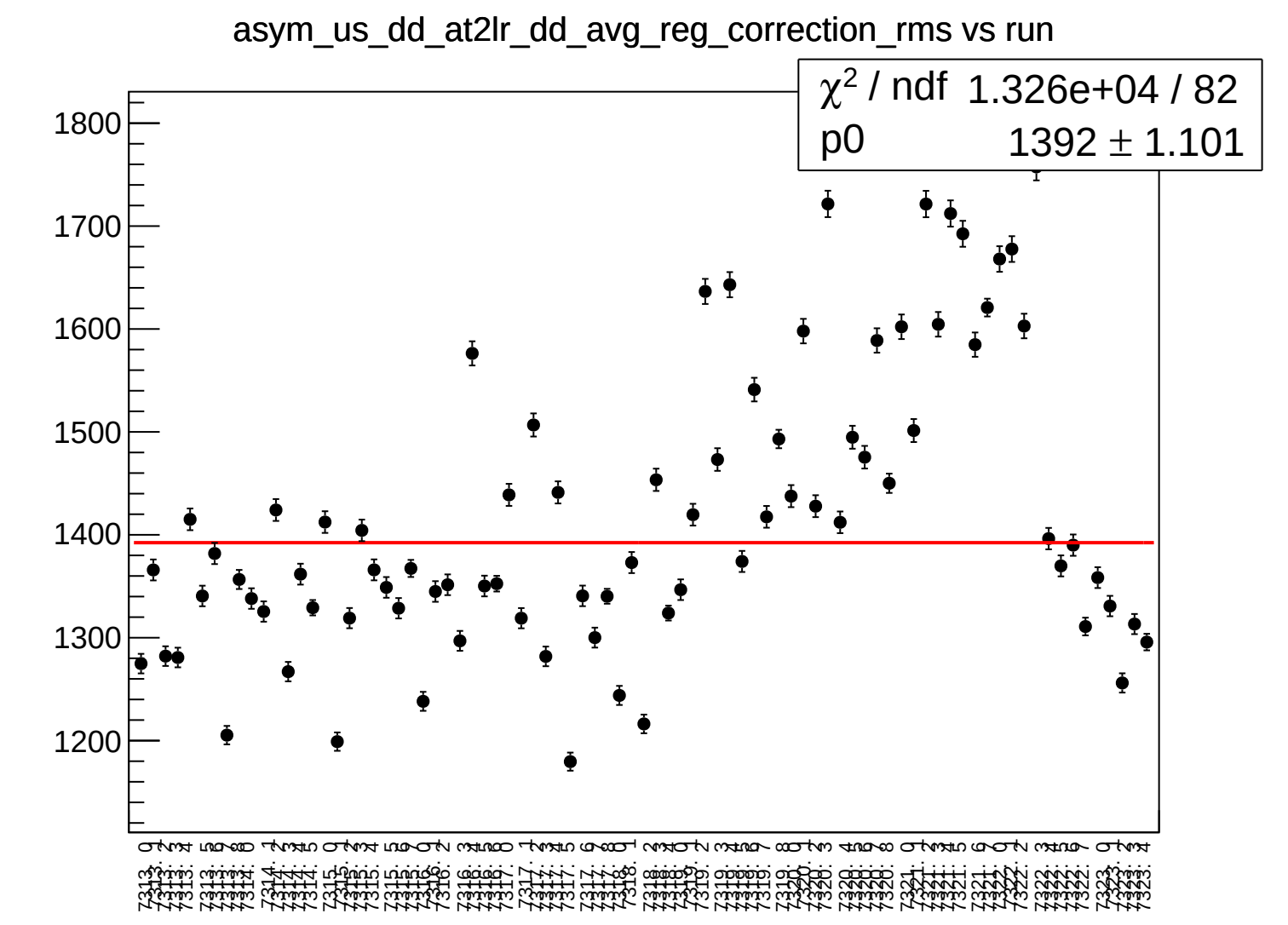

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.74 / 82
p0 −1305 ± 2192
pull
Entries 83
Mean 225.3
Std Dev 0

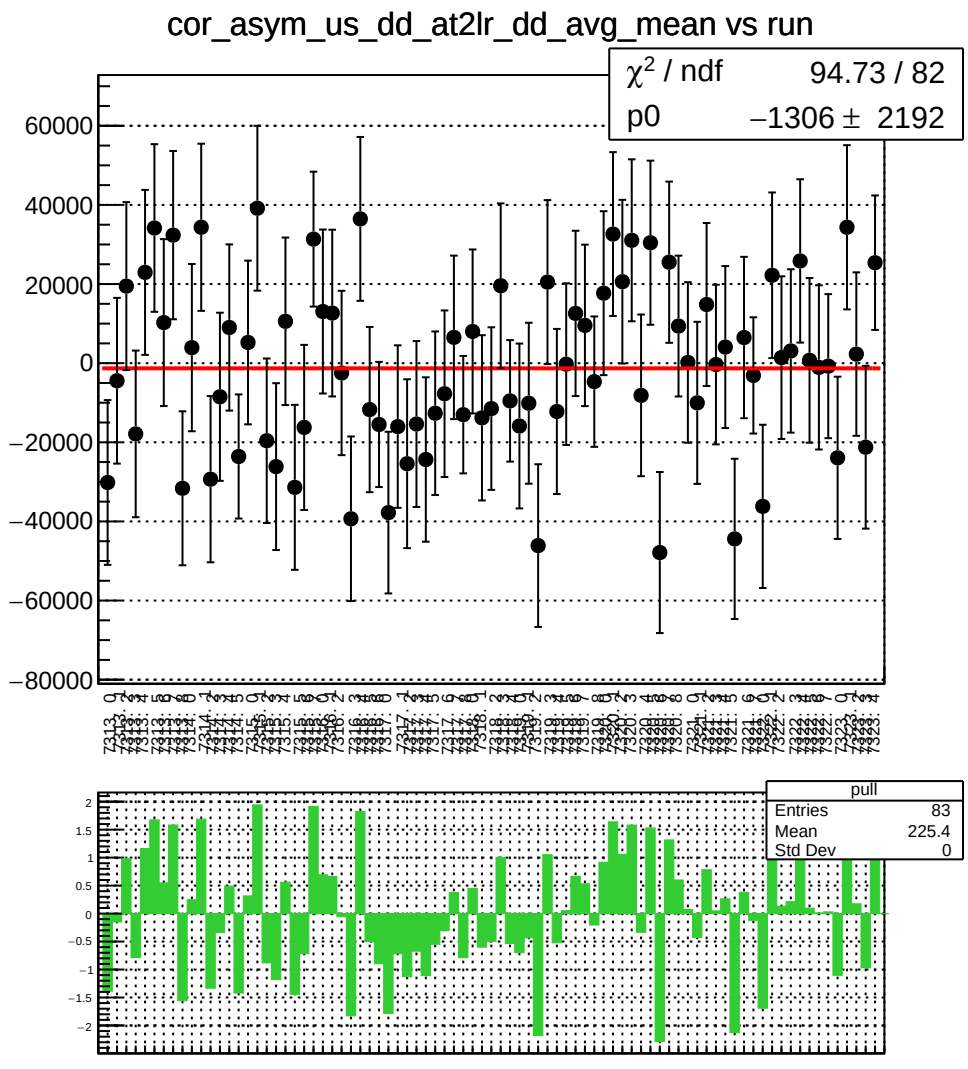

pull1D
Entries 83
Mean 0.009026
Std Dev 1.068

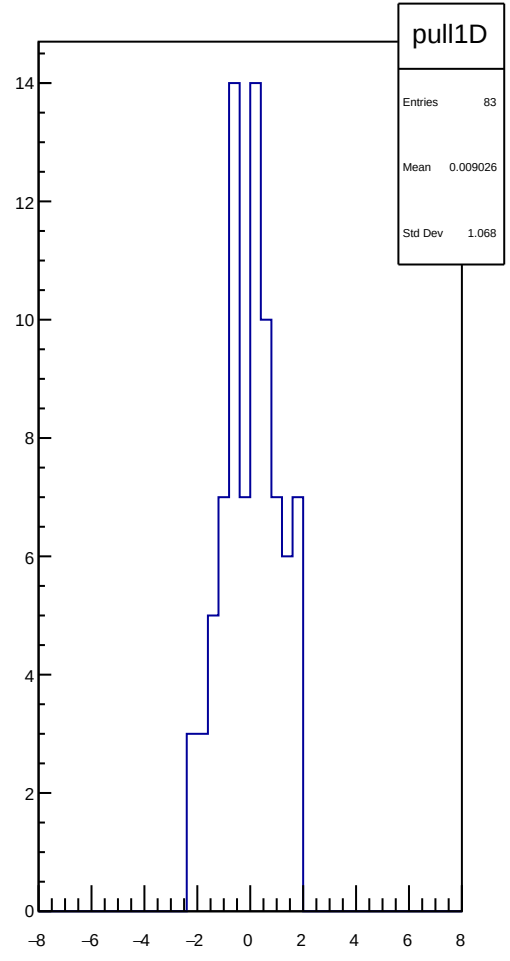

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 249 / 82
p0 1967 ± 1.55
2040
2020
2000
1980
1960
1940
1920
1900

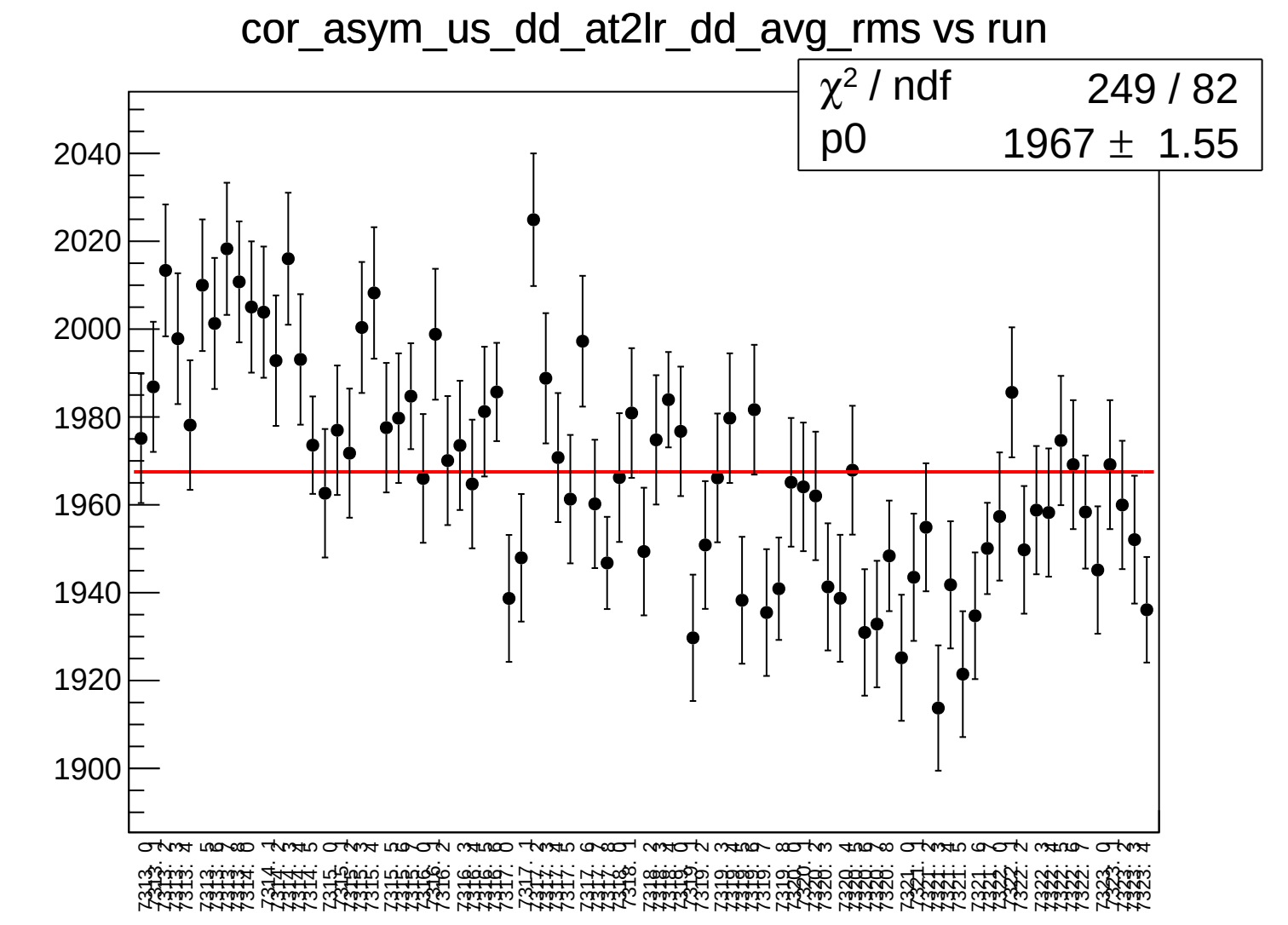

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 81.3 / 82
p0 −1558 ± 1558
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −1117
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

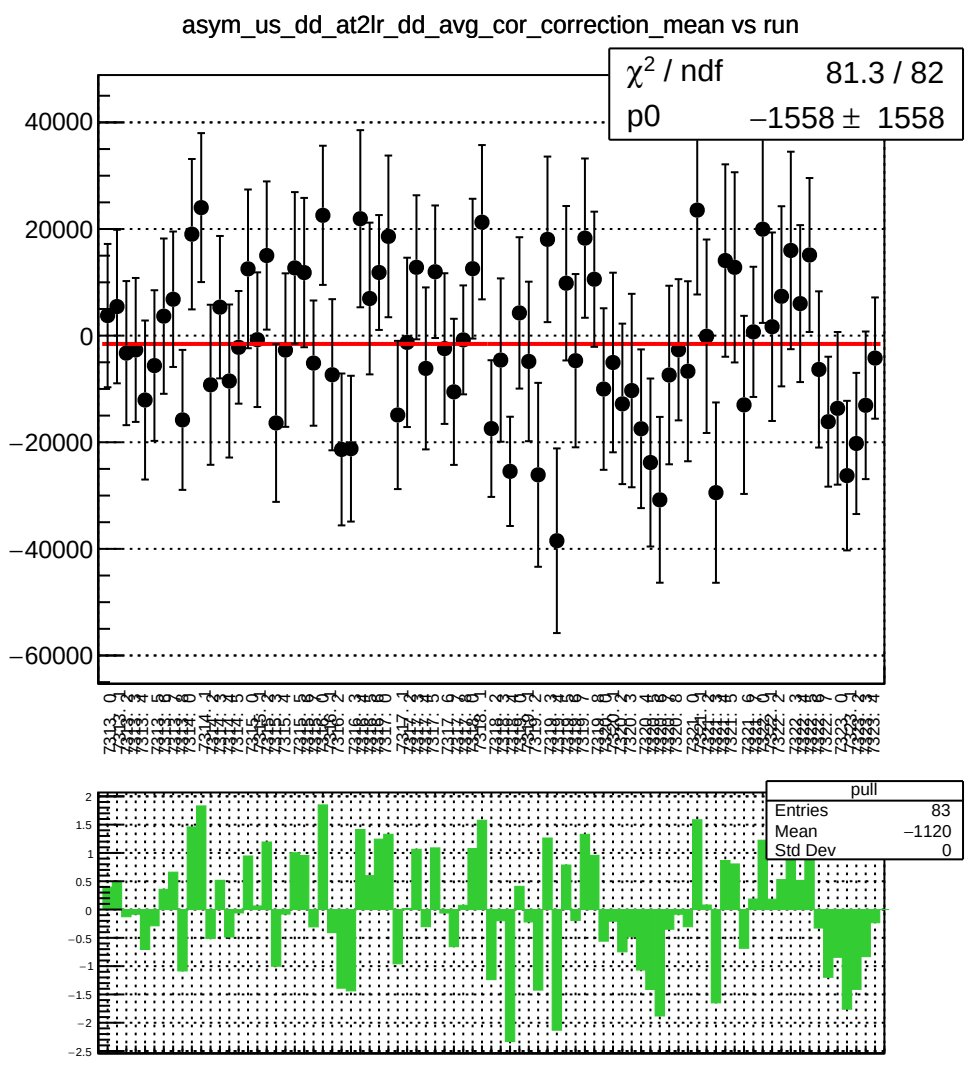

pull1D
Entries 83
Mean 0.003891
Std Dev 0.9897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

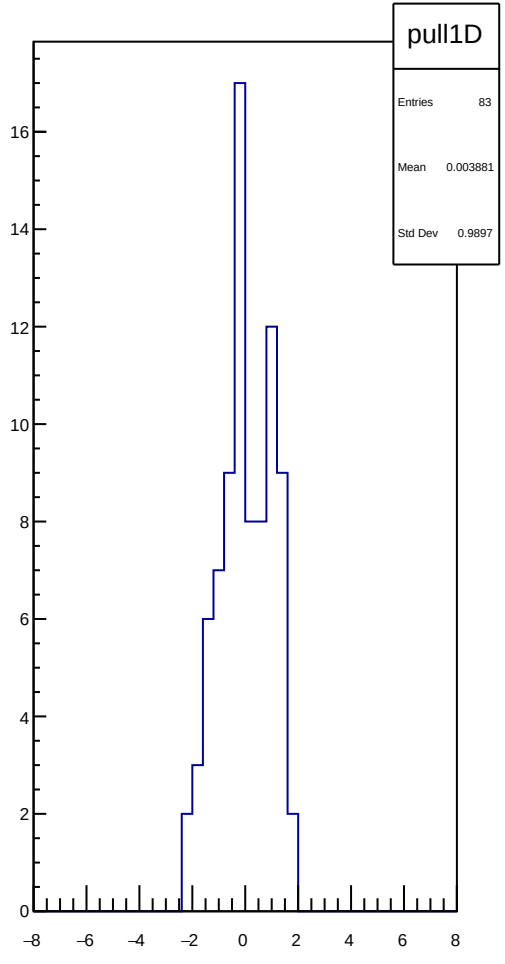

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.326e+04 / 82
p0 1392 ± 1.101
1800
1700
1600
1500
1400
1300
1200

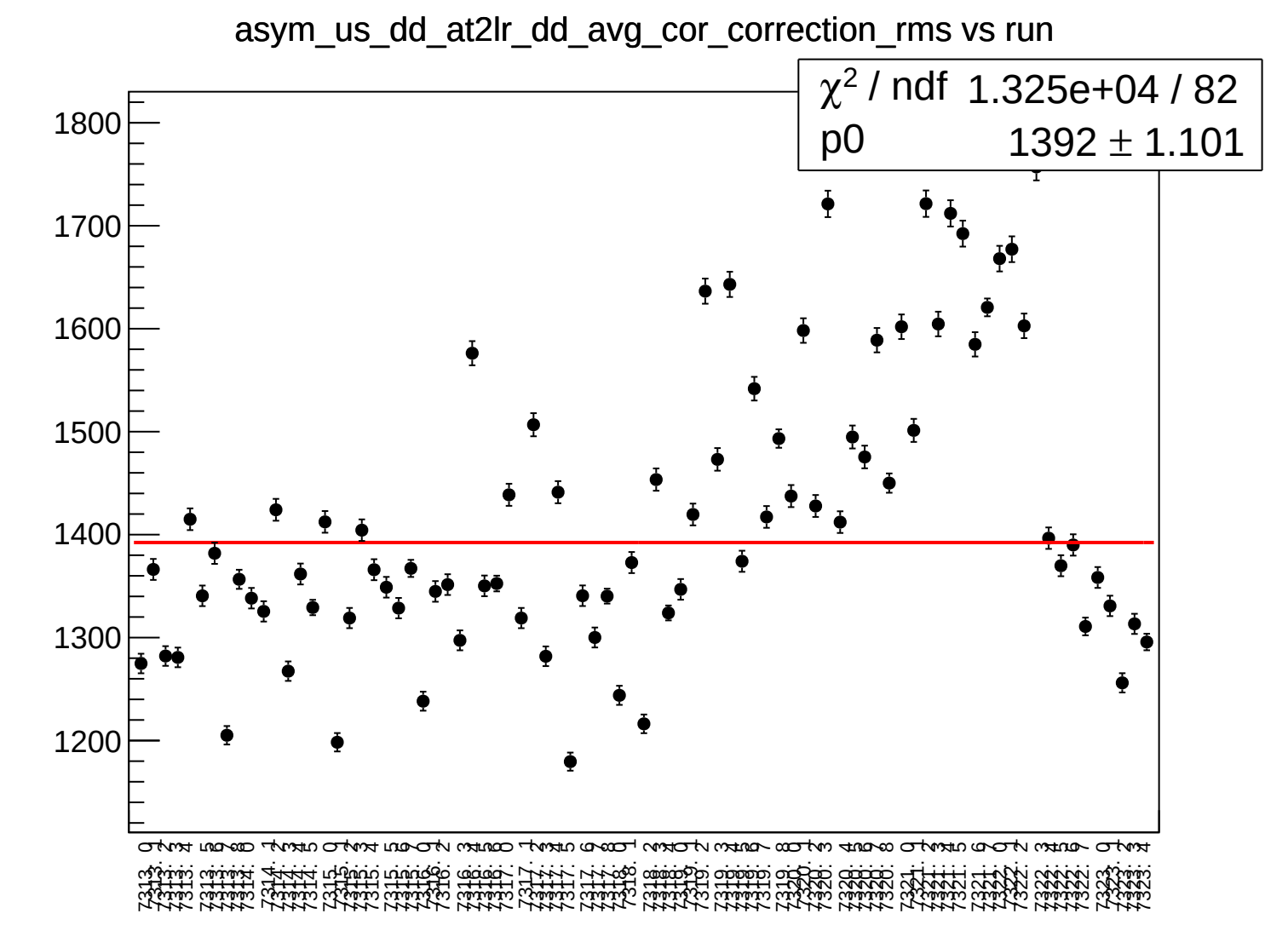

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.73 / 82
p0 −1306 ± 2192
pull
Entries 83
Mean 225.4
Std Dev 0

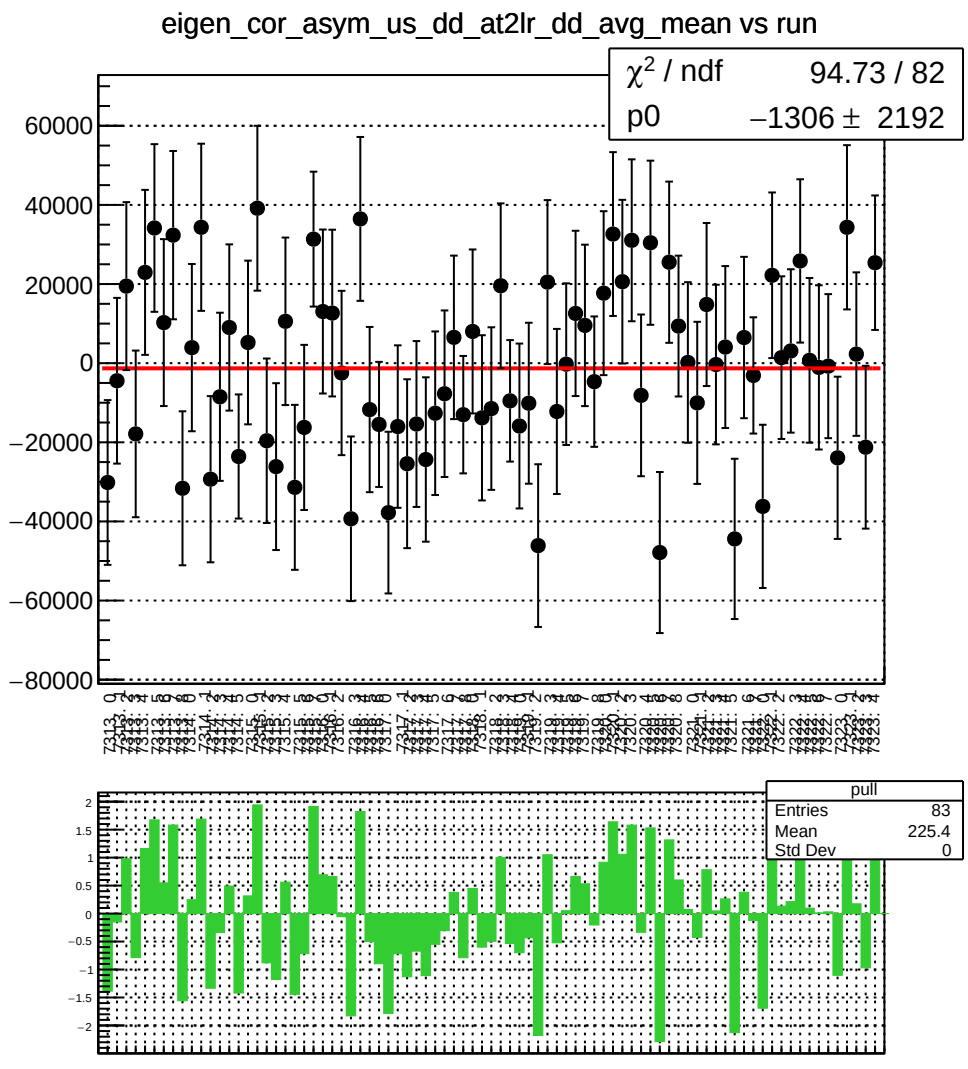

pull1D
Entries 83
Mean 0.009026
Std Dev 1.068

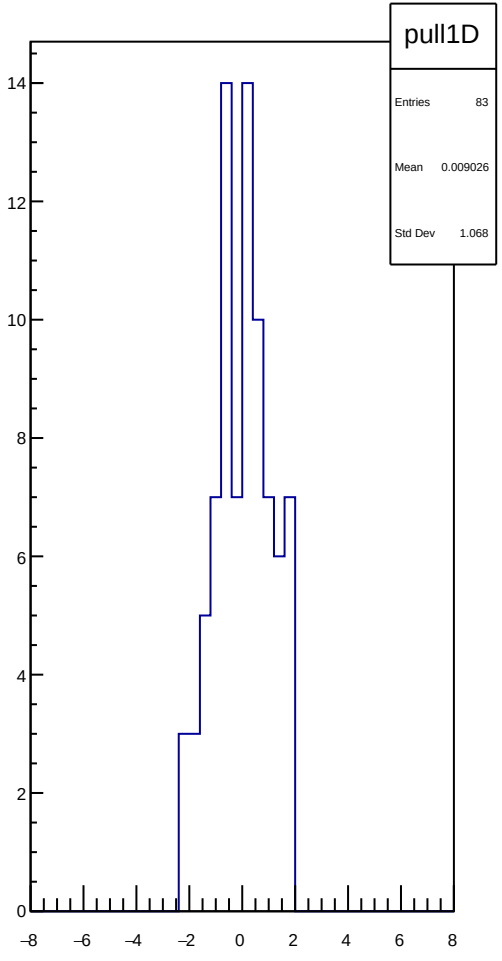

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 249 / 82
p0 1967 ± 1.55
2040
2020
2000
1980
1960
1940
1920
1900

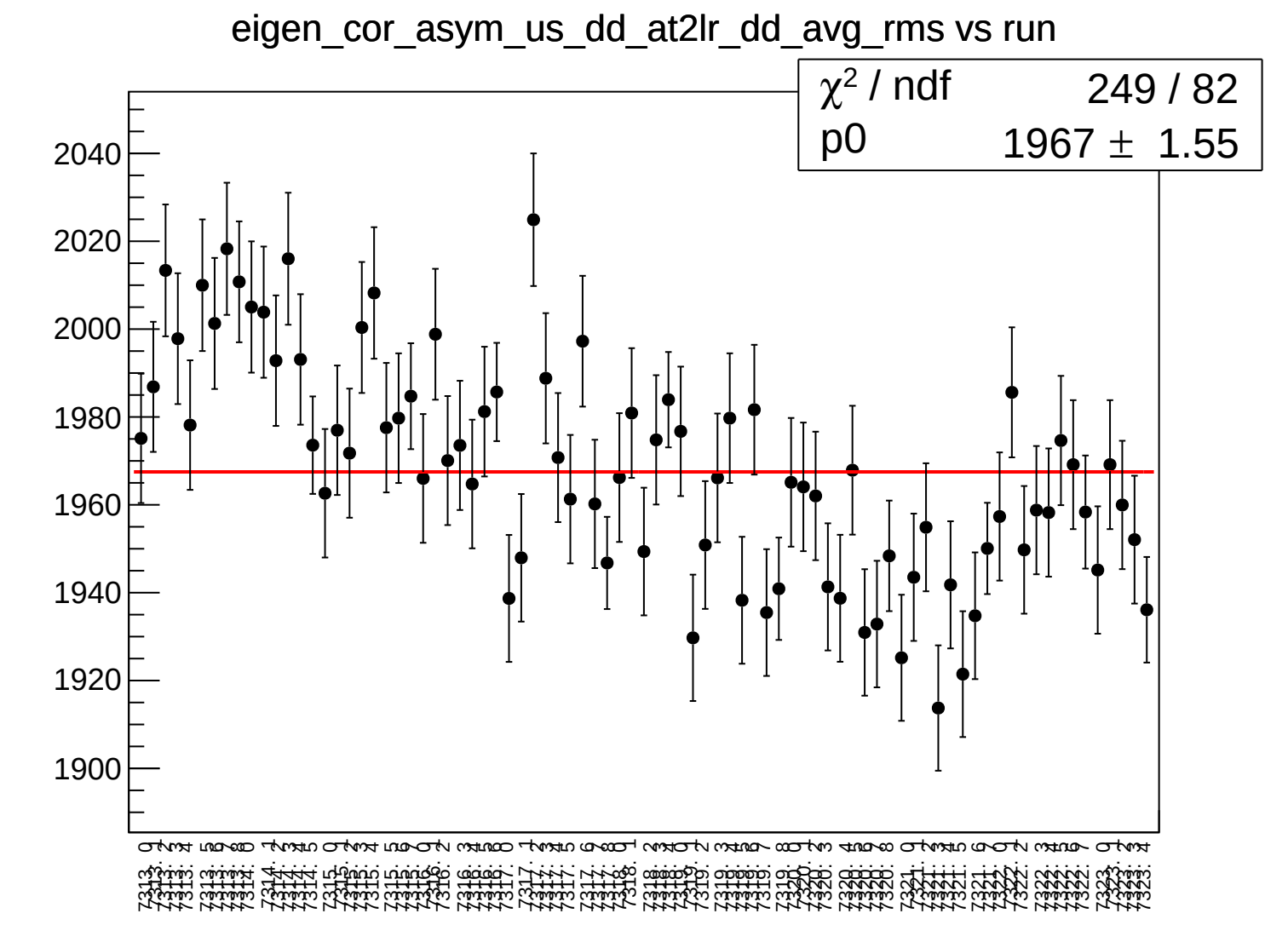

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 81.3 / 82
p0 −1558 ± 1558
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −1120
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

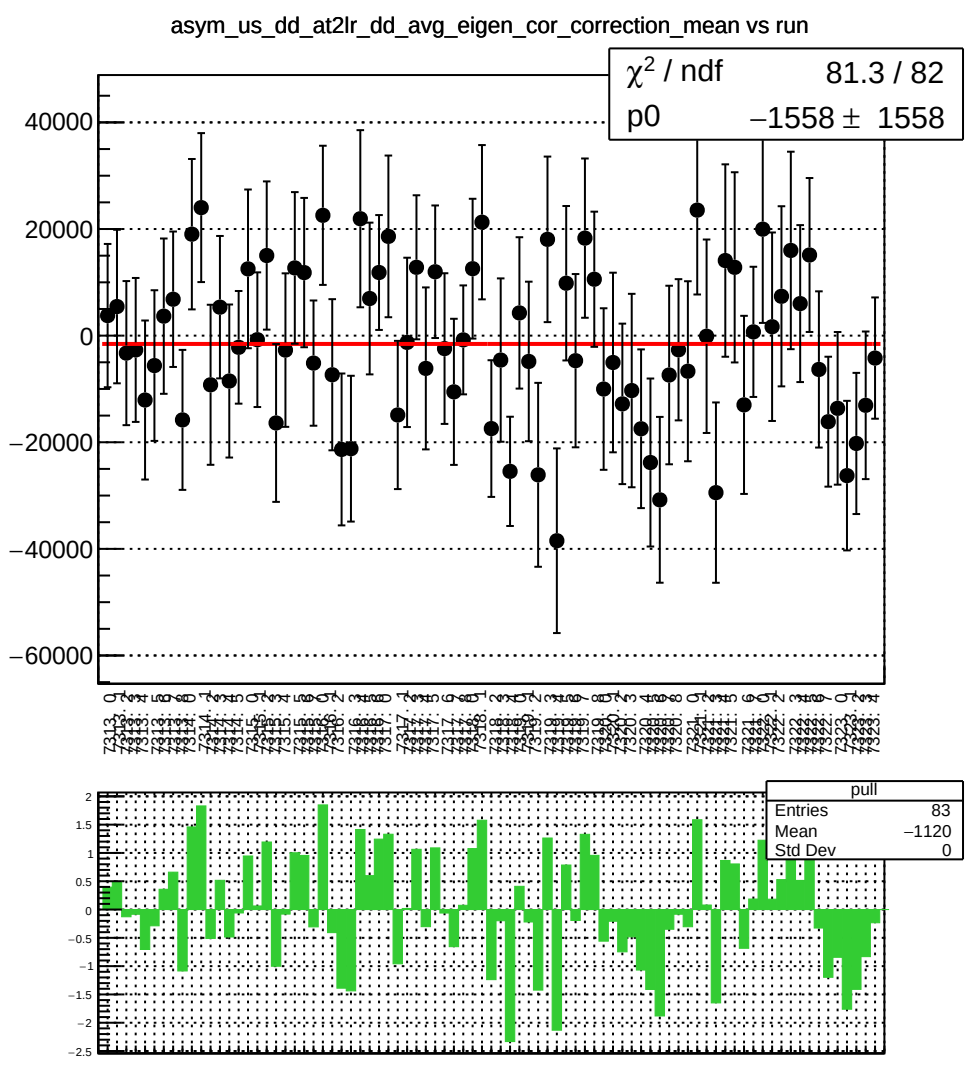

pull1D
Entries 83
Mean 0.003881
Std Dev 0.9897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

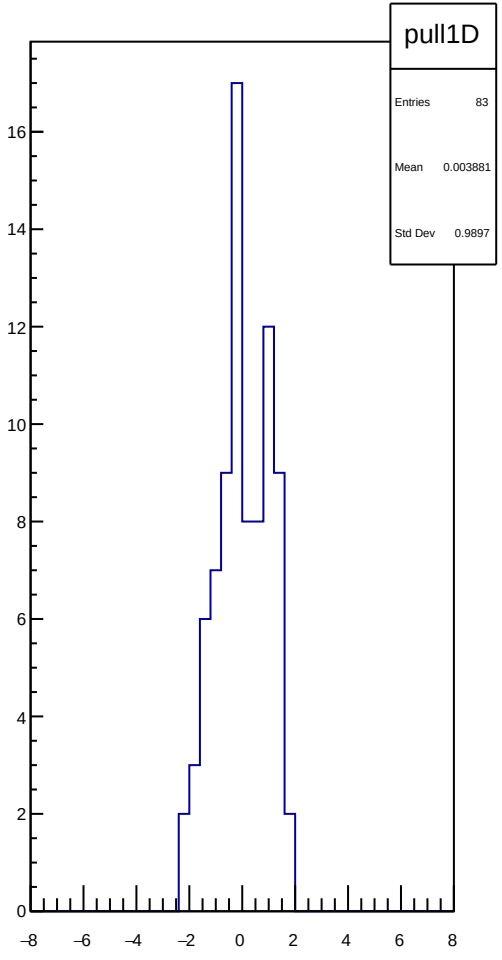

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.325e+04 / 82
p0 1392 ± 1.101
1800
1700
1600
1500
1400
1300
1200

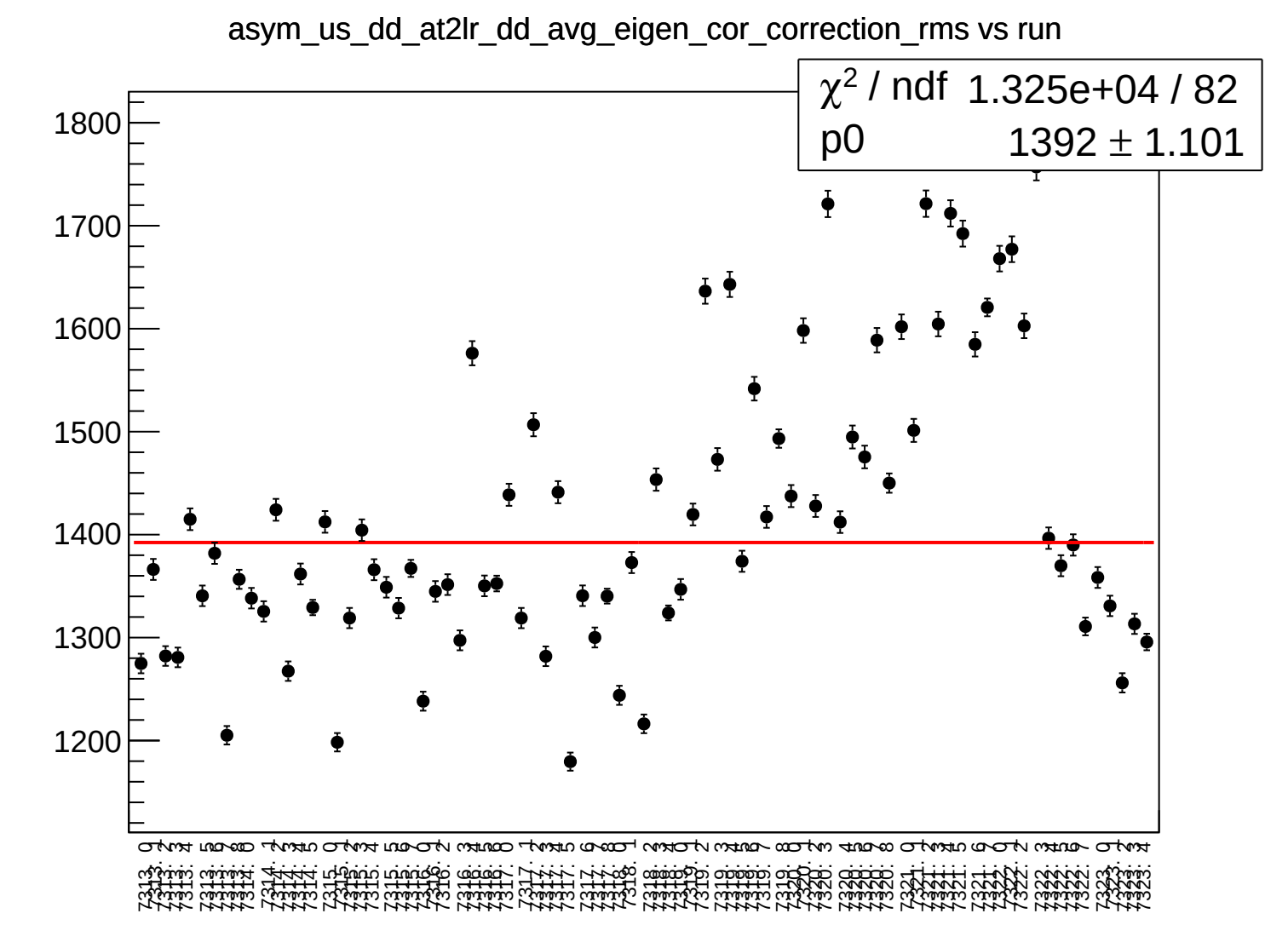

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.73 / 82
p0 −1306 ± 2192
pull
Entries 83
Mean 225.4
Std Dev 0

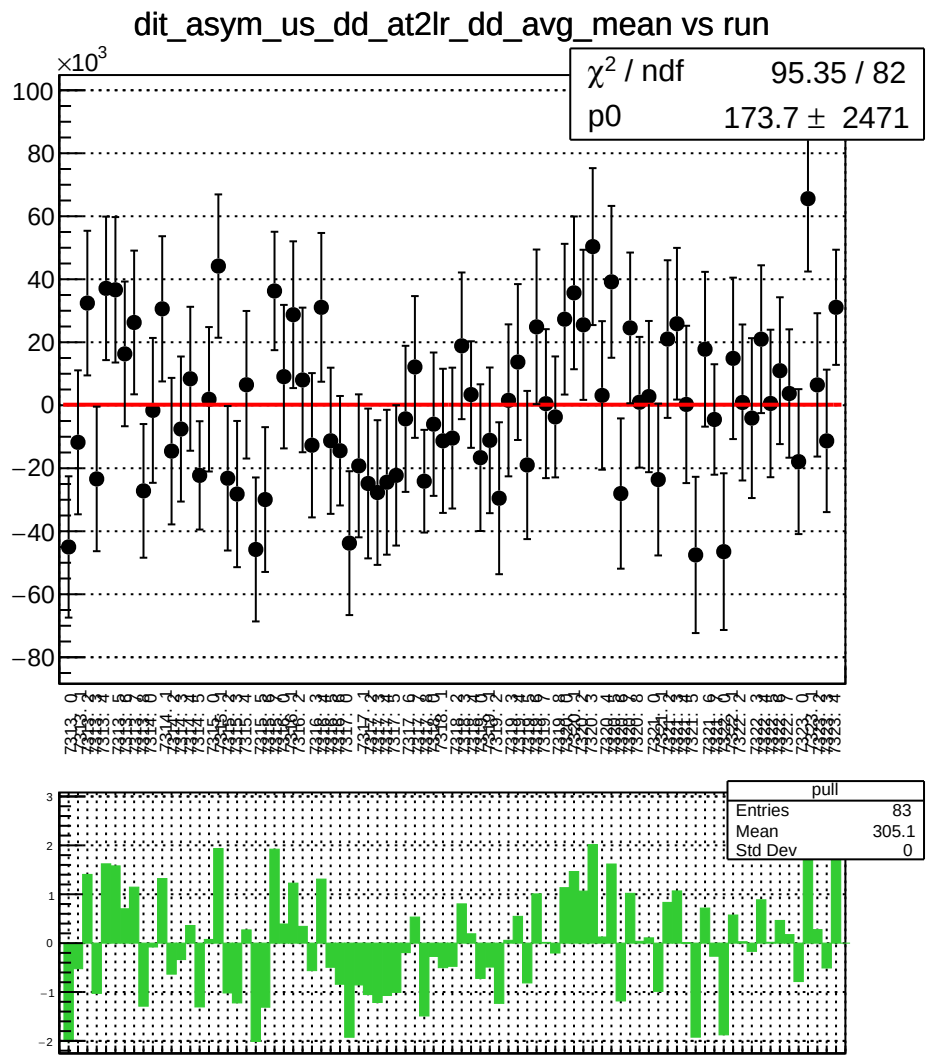

pull1D
Entries 83
Mean 0.009026
Std Dev 1.068

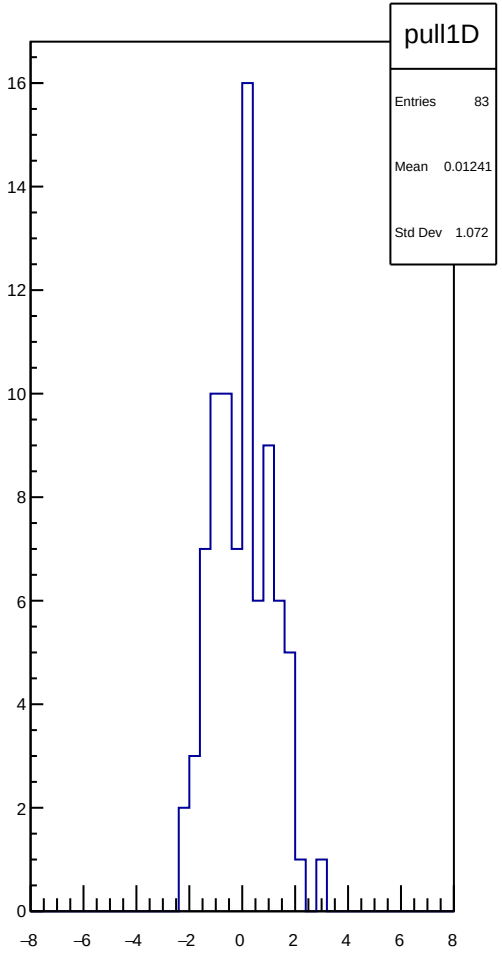

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 249 / 82
p0 1967 ± 1.55
2040
2020
2000
1980
1960
1940
1920
1900

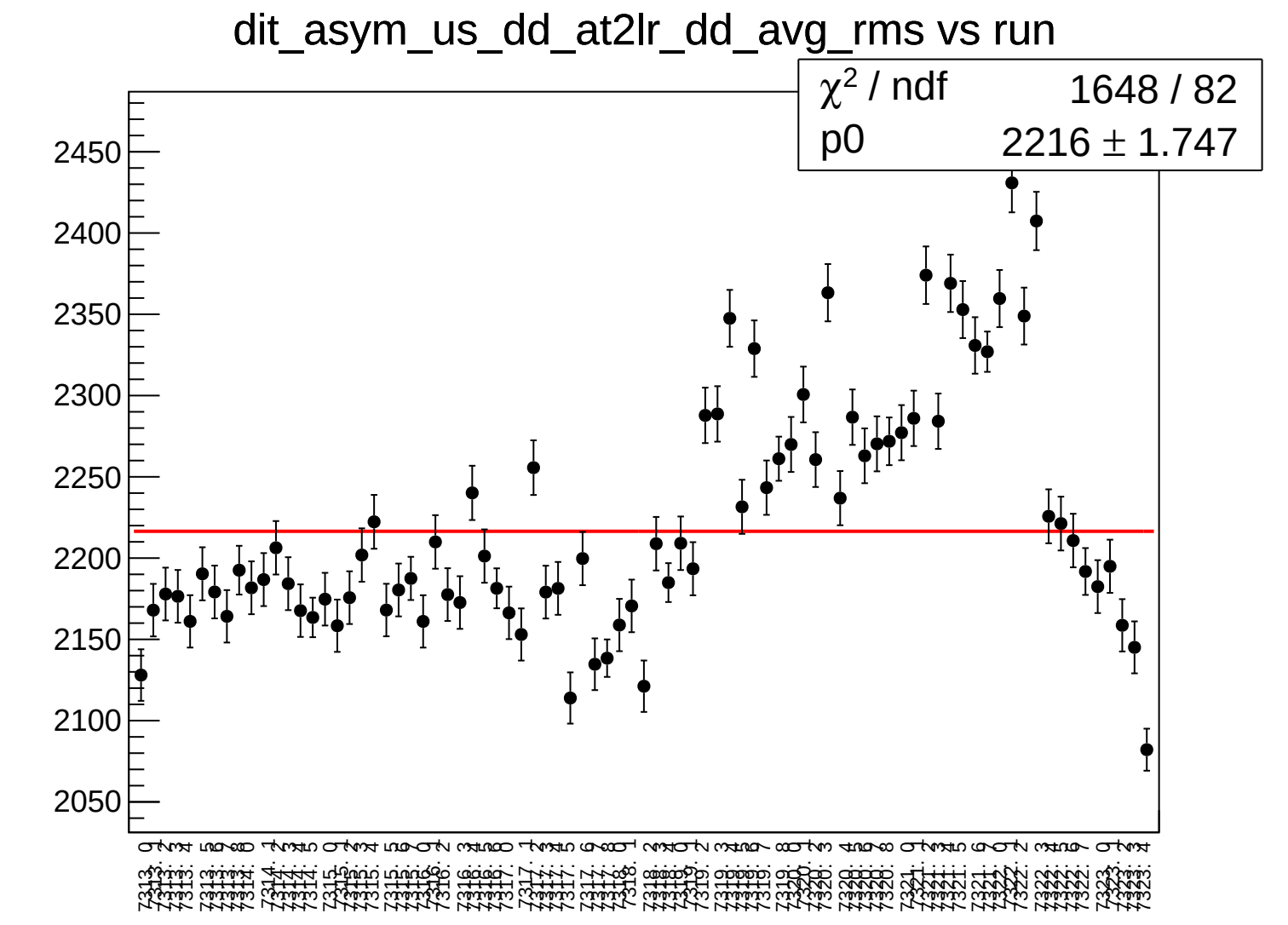

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.3 / 82
p0 −1558 ± 1558
pull
Entries 83
Mean −1120
Std Dev 0

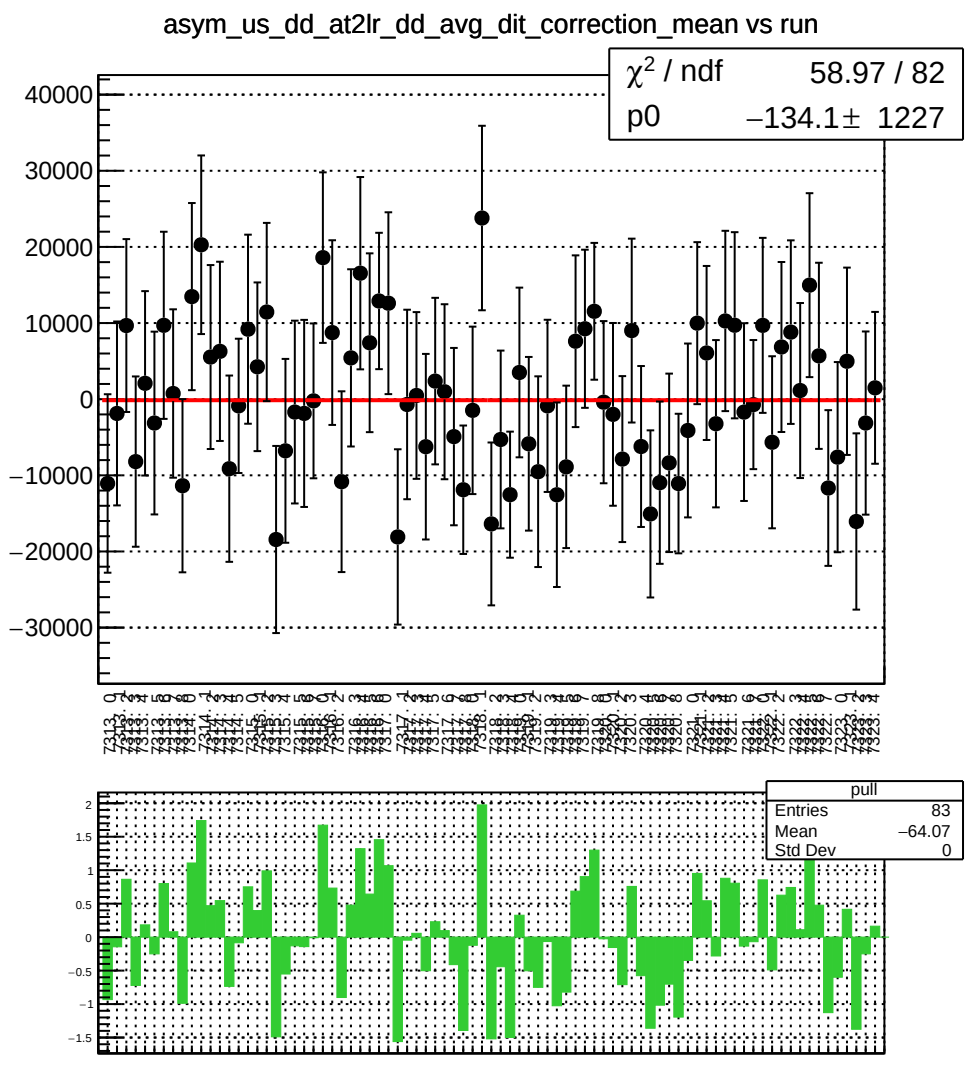

pull1D
Entries 83
Mean 0.003881
Std Dev 0.9897

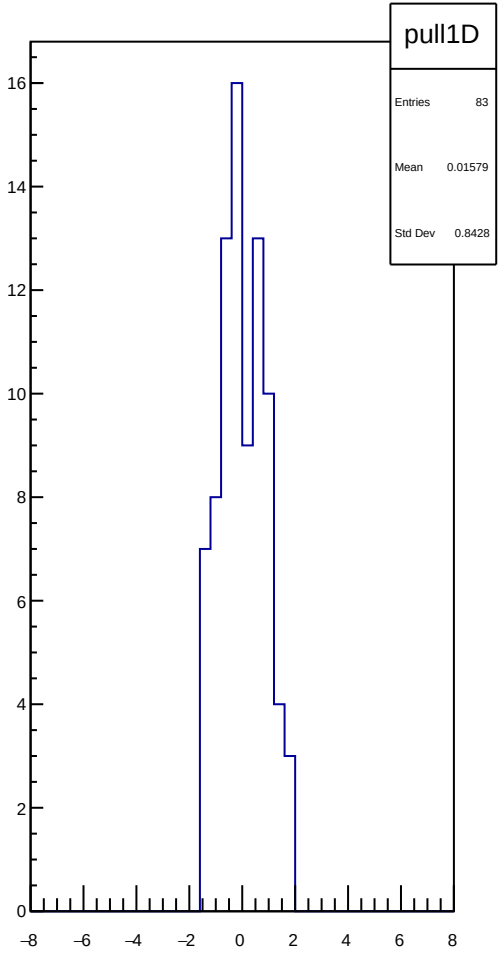

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.325e+04 / 82
p0 1392 ± 1.101
1800
1700
1600
1500
1400
1300
1200

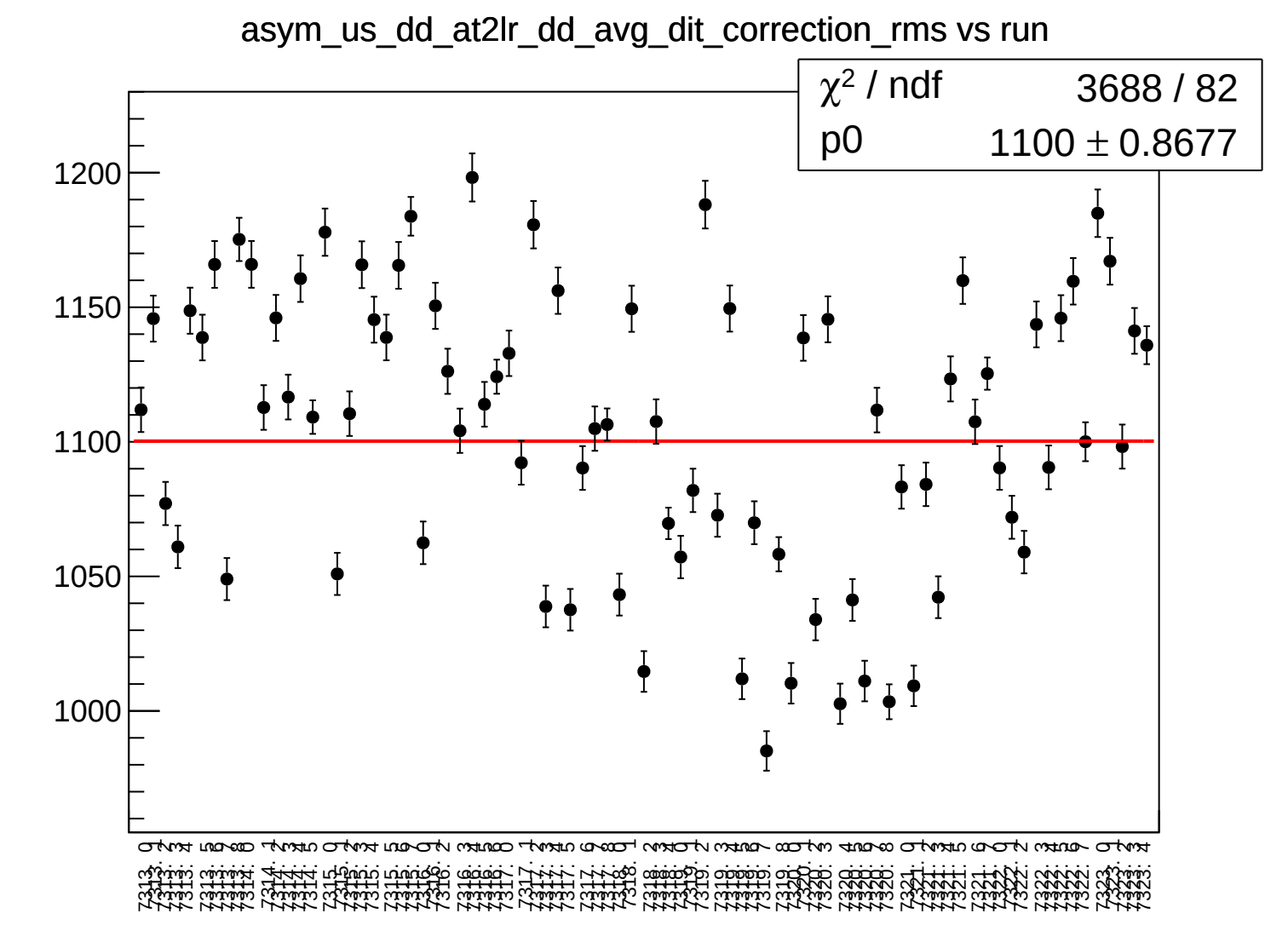

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 95.35 / 82
p0 173.7 ± 2471
pull
Entries 83
Mean 305.1
Std Dev 0

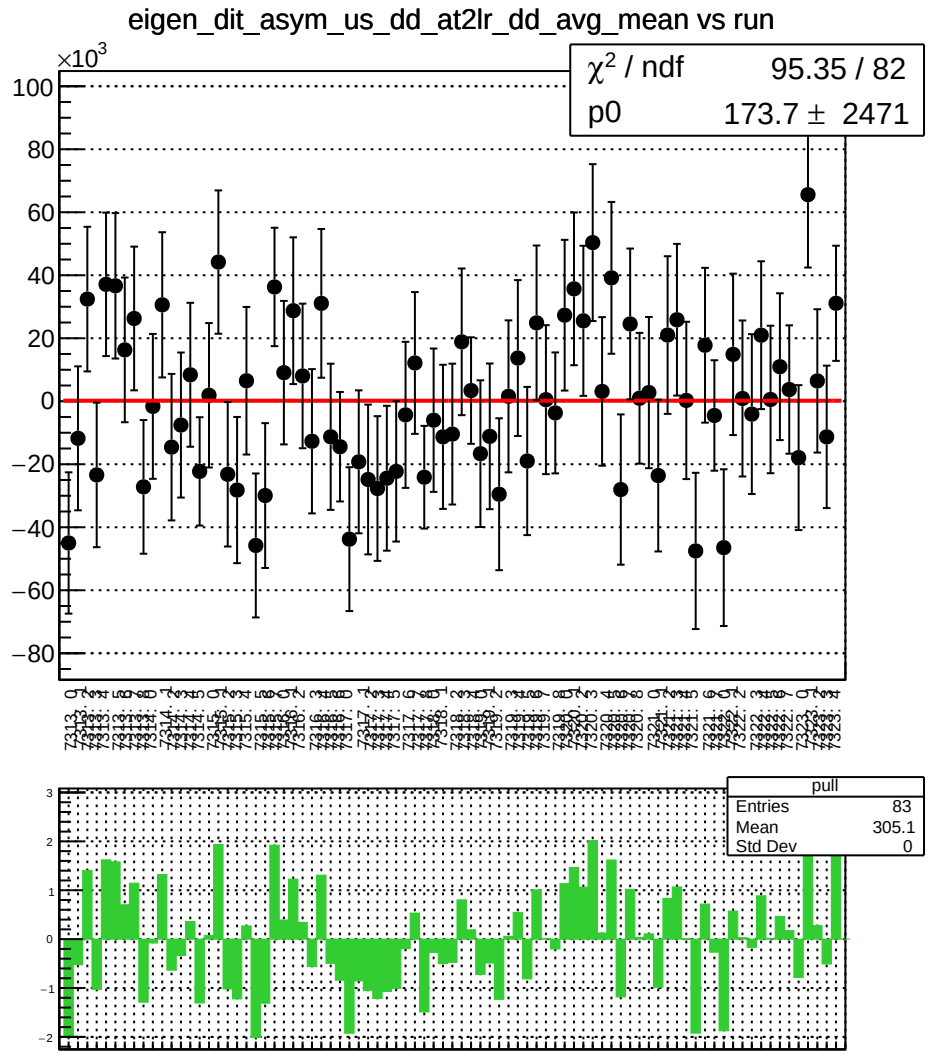

pull1D
Entries 83
Mean 0.01241
Std Dev 1.072

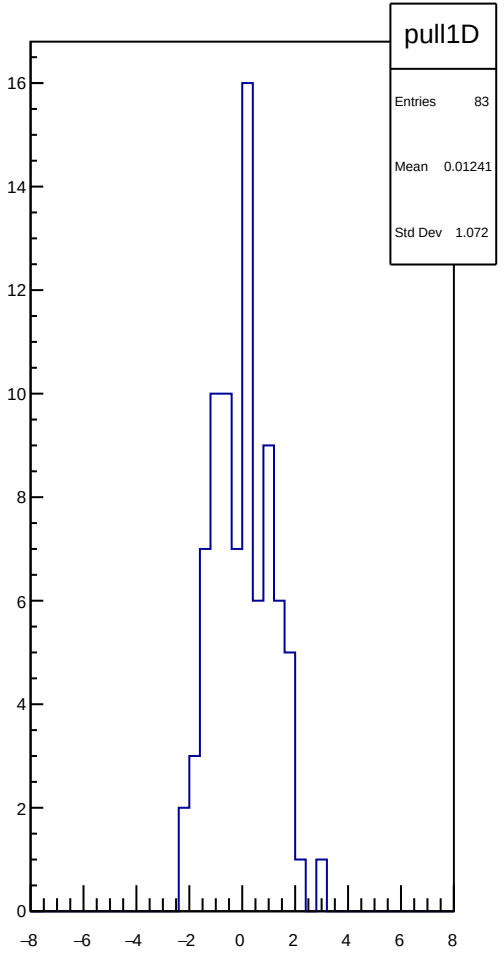

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1648 / 82
p0 2216 ± 1.747
2450
2400
2350
2300
2250
2200
2150
2100
2050

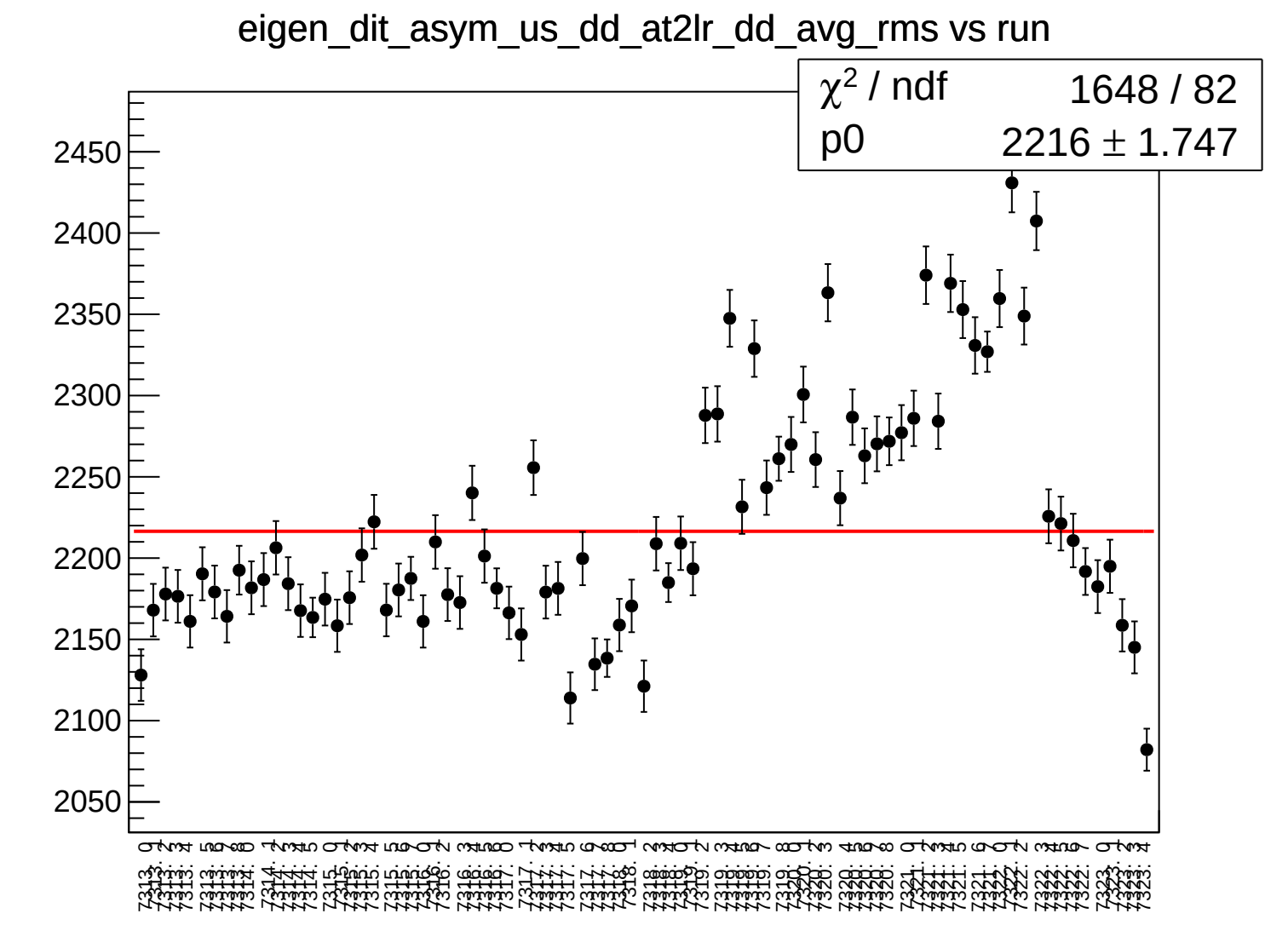

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 58.97 / 82
p0 −134.1± 1227
pull
Entries 83
Mean −64.07
Std Dev 0

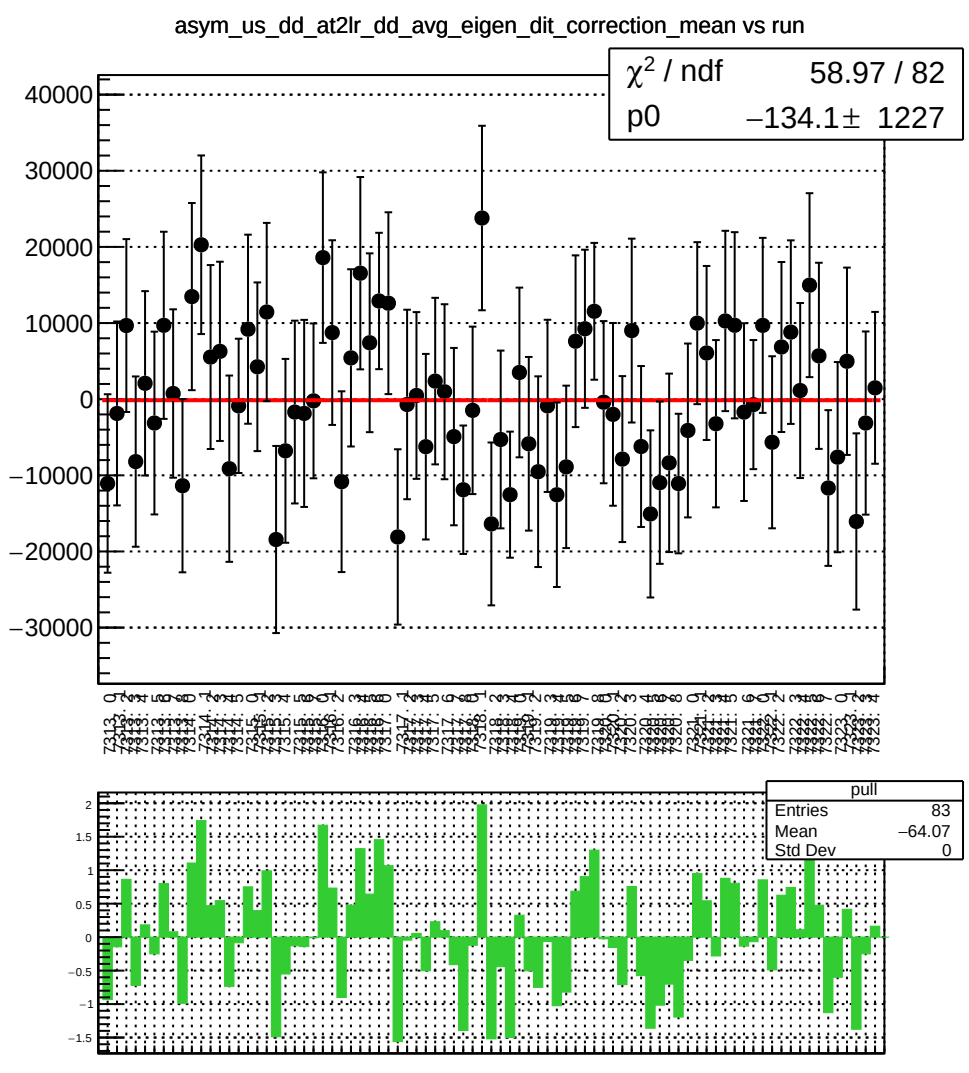

pull1D
Entries 83
Mean 0.01579
Std Dev 0.8428

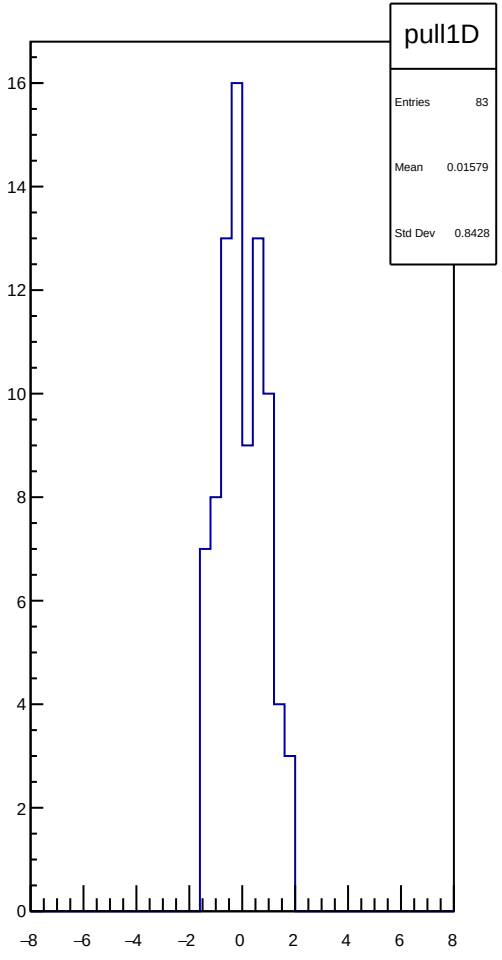

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3688 / 82
p0 1100 ± 0.8677
1200
1150
1100
1050
1000

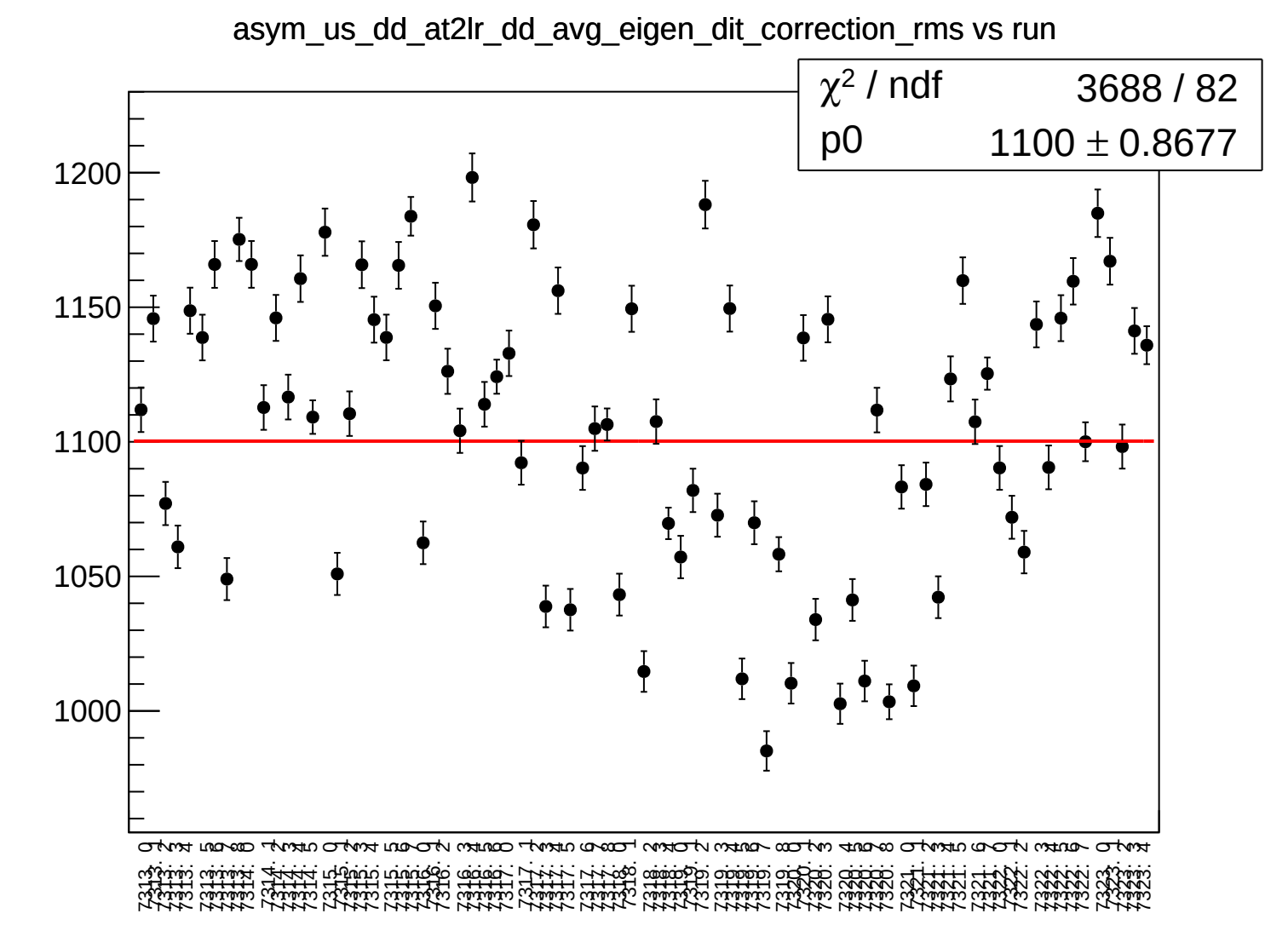

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 95.35 / 82
p0 173.7 ± 2471
pull
Entries 83
Mean 305.1
Std Dev 0

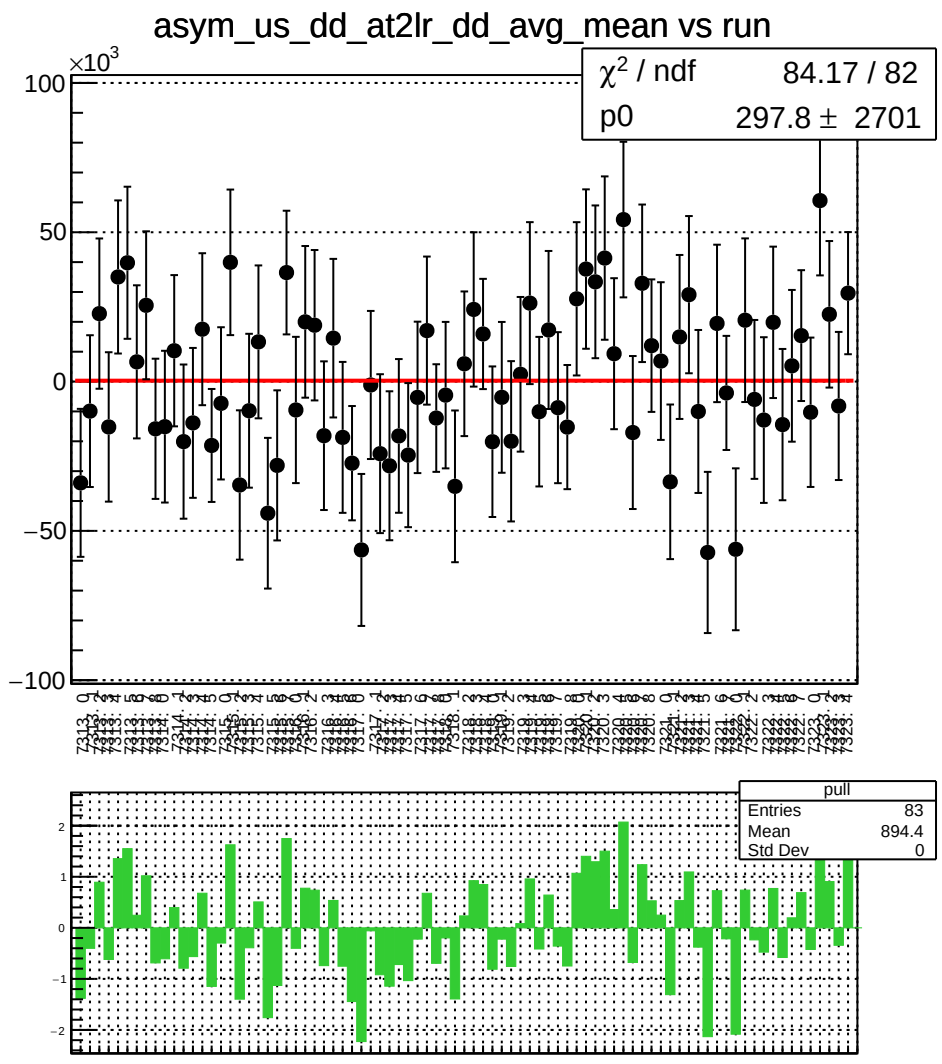

pull1D
Entries 83
Mean 0.01241
Std Dev 1.072

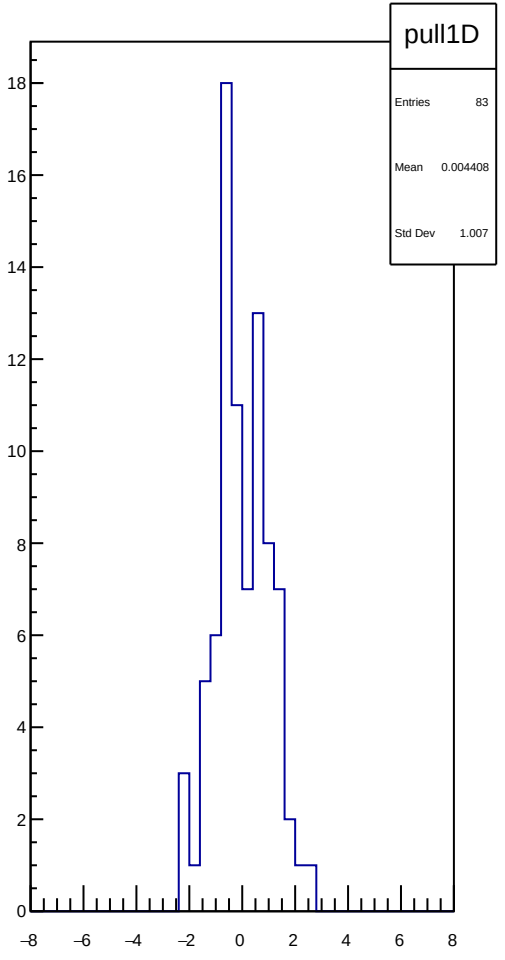

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1648 / 82
p0 2216 ± 1.747
2450
2400
2350
2300
2250
2200
2150
2100
2050

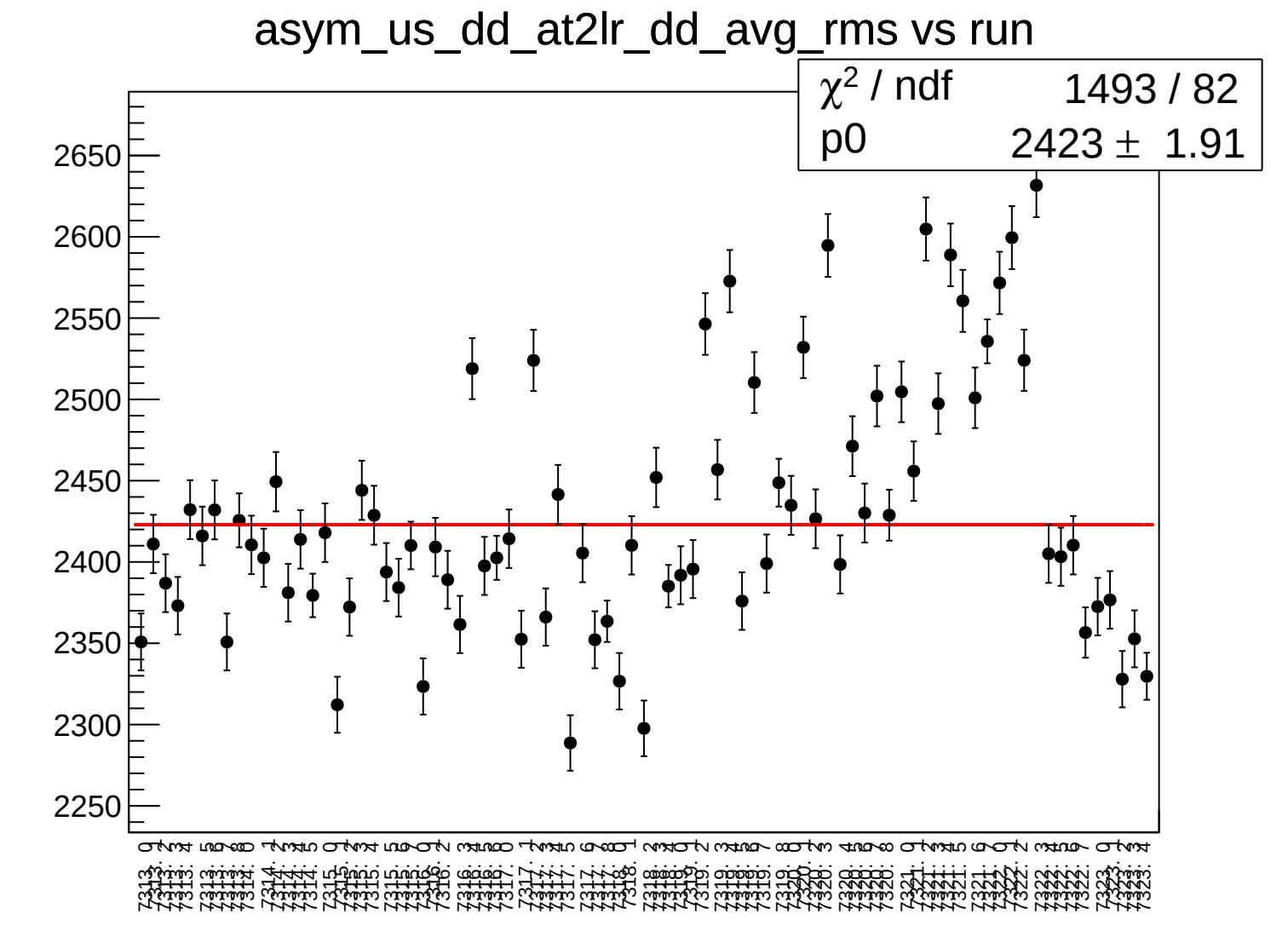

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 58.97 / 82
p0 −134.1± 1227
pull
Entries 83
Mean −64.07
Std Dev 0

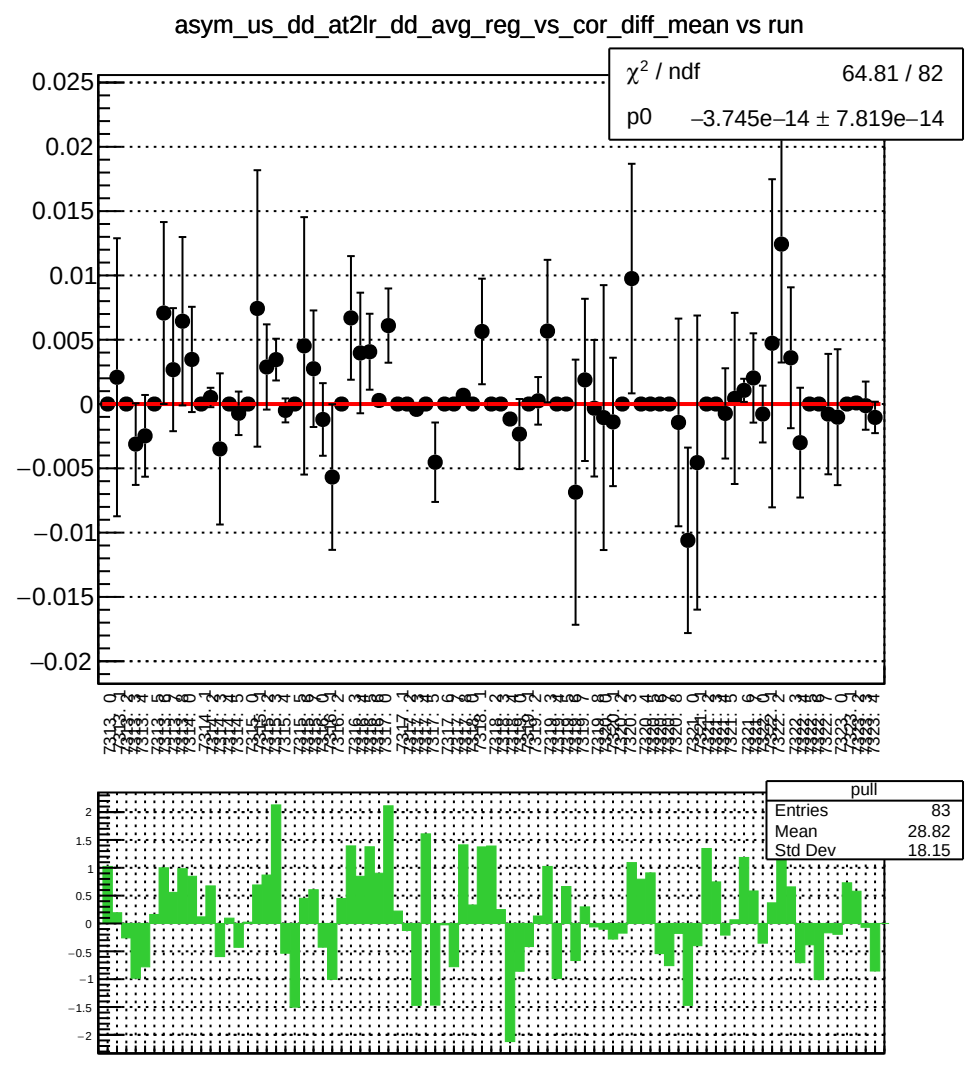

pull1D
Entries 83
Mean 0.01579
Std Dev 0.8428

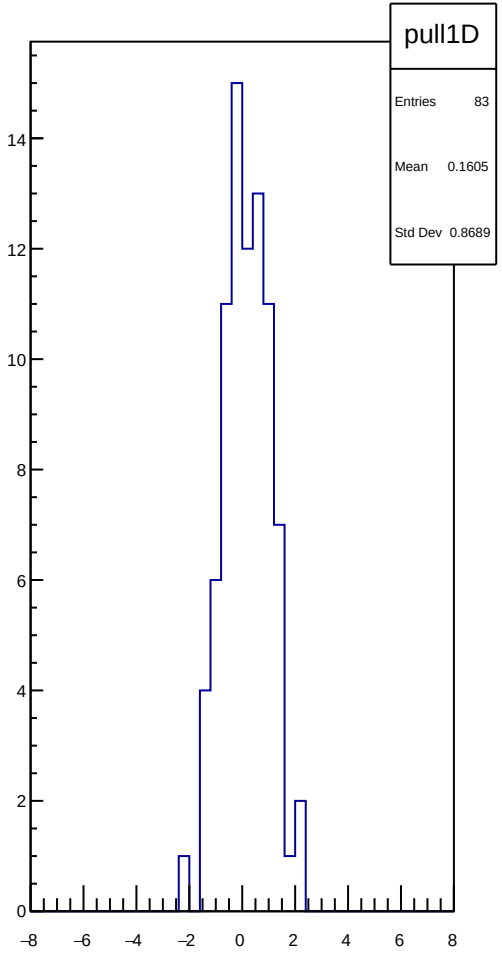

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3688 / 82
p0 1100 ± 0.8677
1200
1150
1100
1050
1000

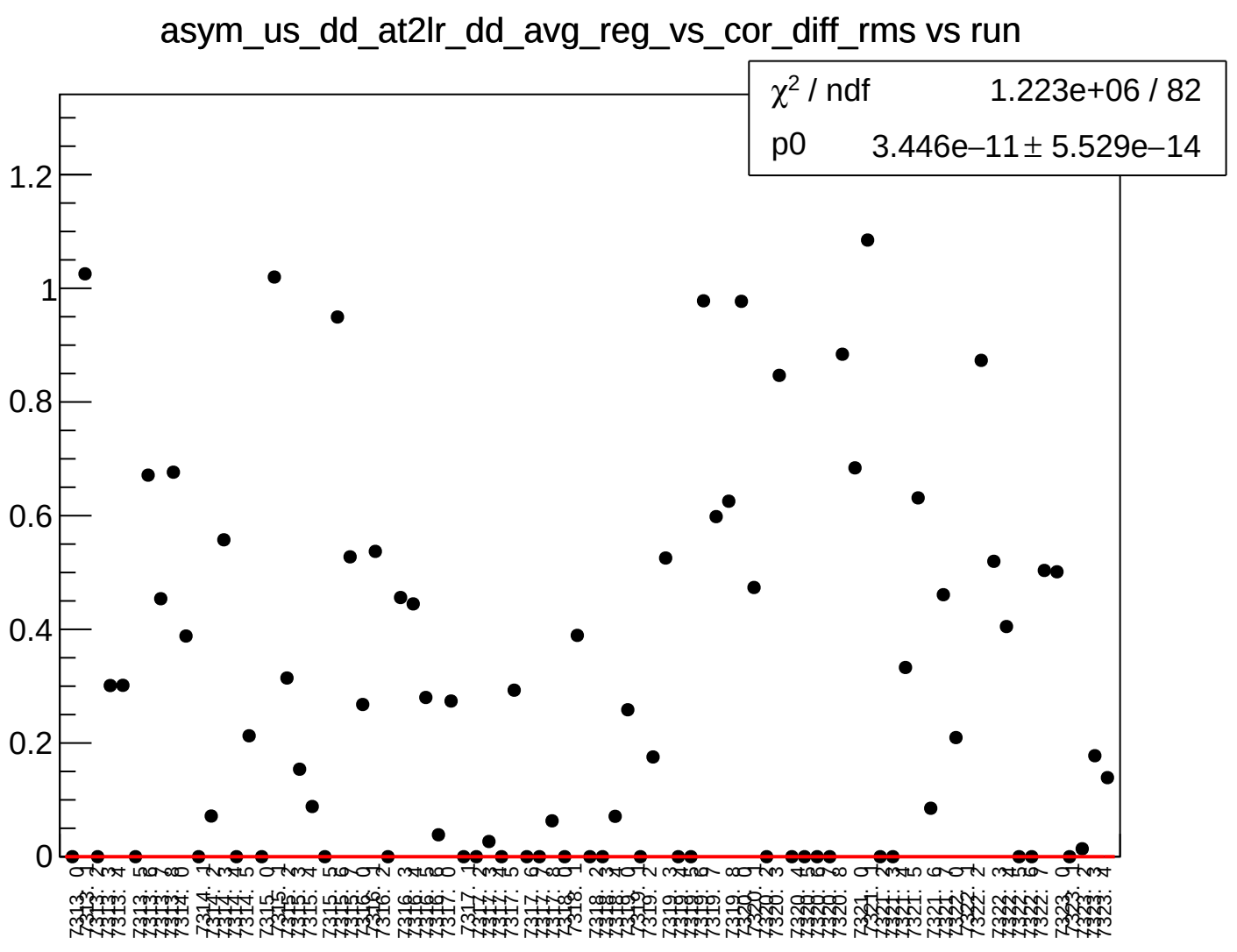

asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 84.17 / 82
p0 297.8 ± 2701
pull
Entries 83
Mean 894.4
Std Dev 0

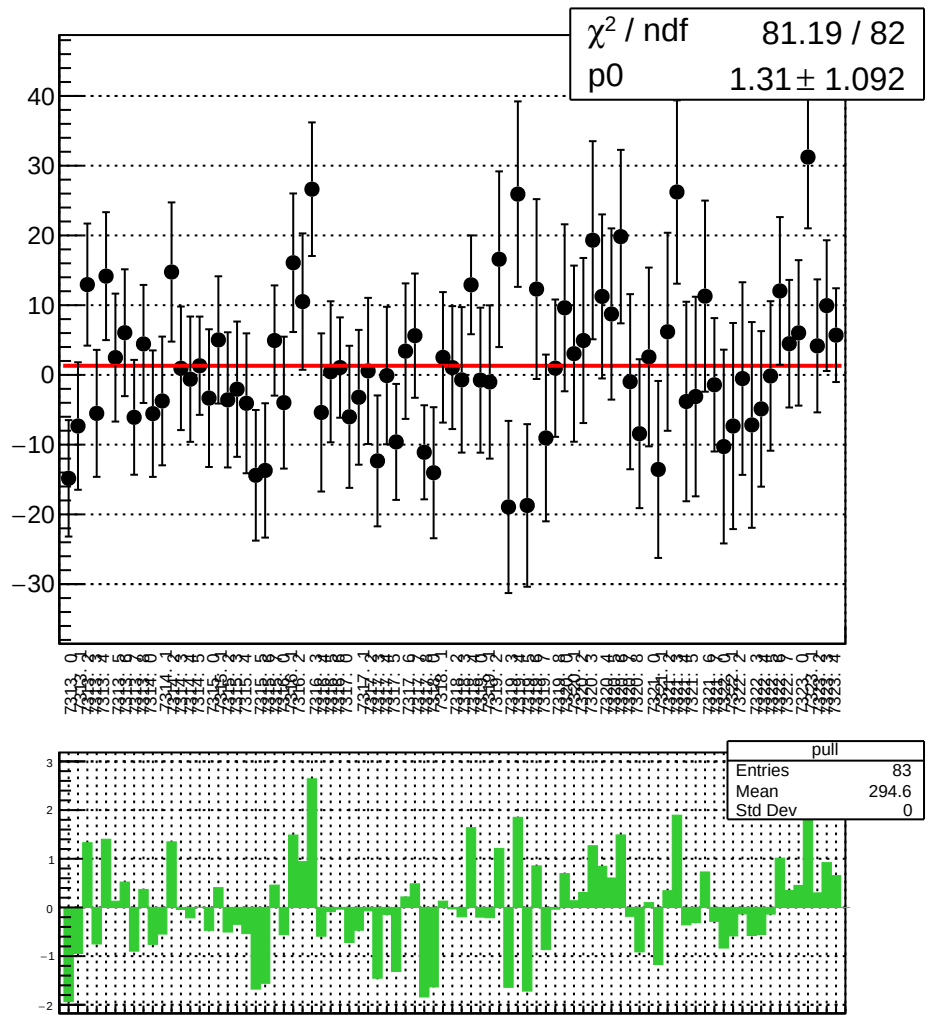

pull1D
Entries 83
Mean 0.004408
Std Dev 1.007

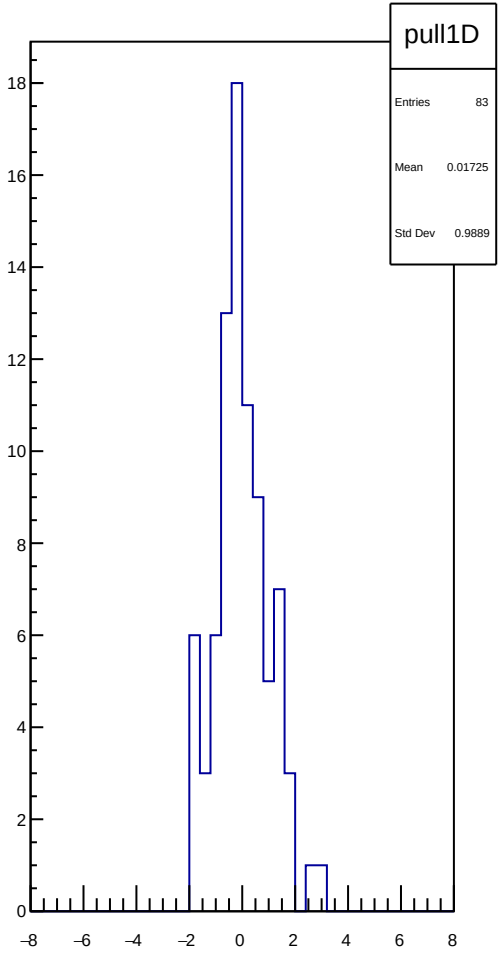

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1493 / 82
p0 2423 ± 1.91
2650
2600
2550
2500
2450
2400
2350
2300
2250

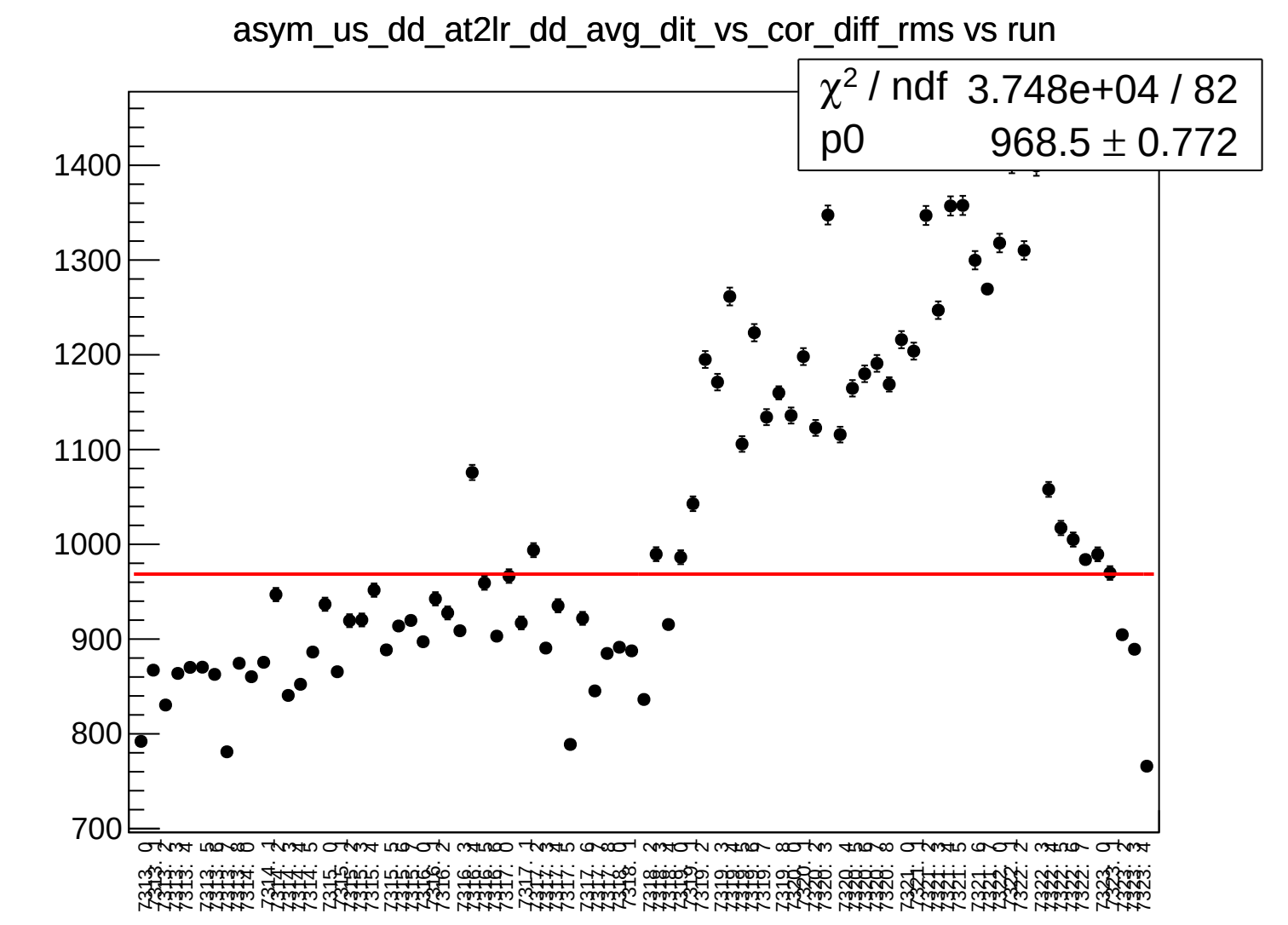

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.81 / 82
p0 −3.745e−14 ± 7.819e−14
pull
Entries 83
Mean 28.82
Std Dev 18.15

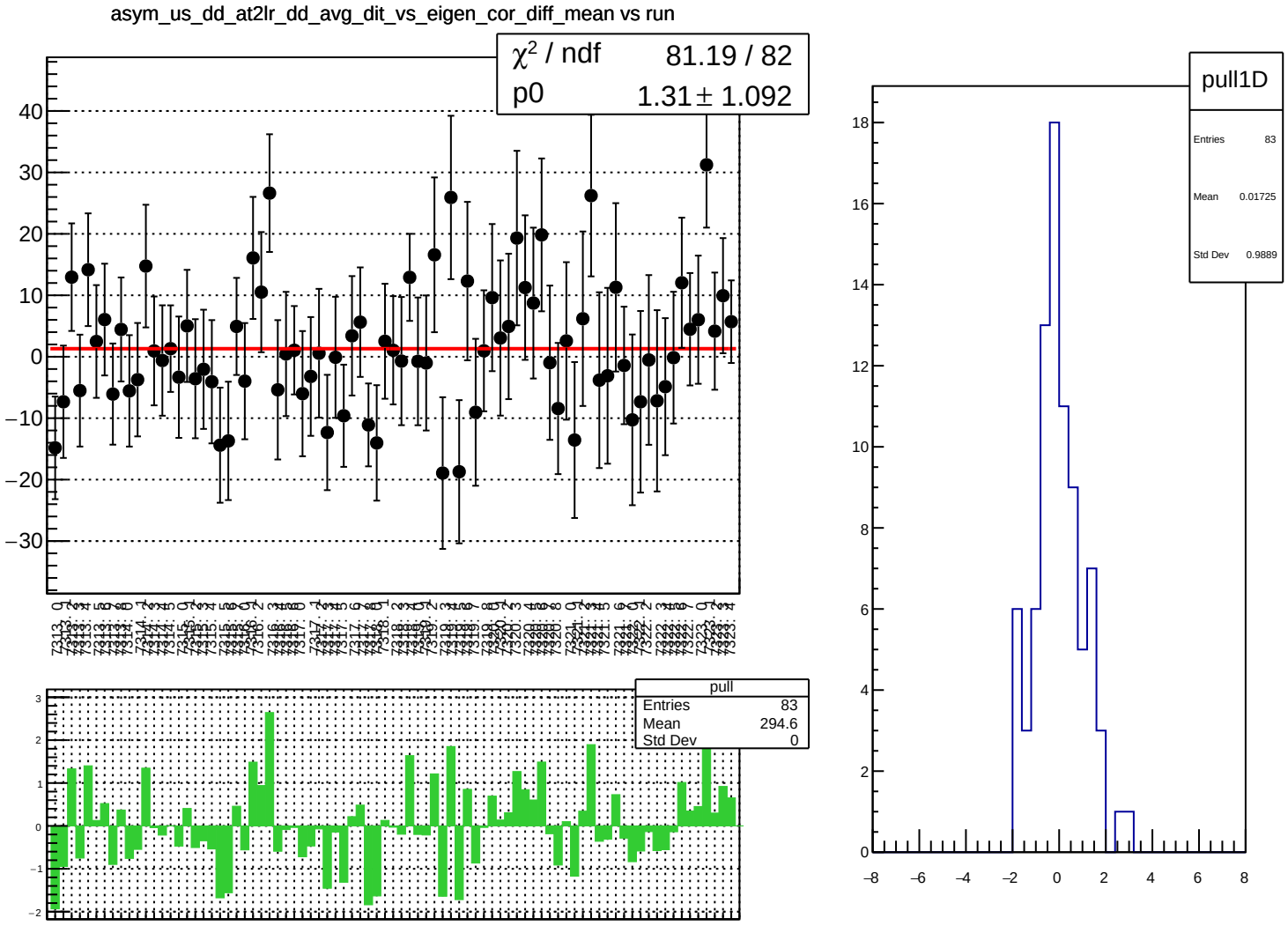

pull1D
Entries 83
Mean 0.1605
Std Dev 0.8689

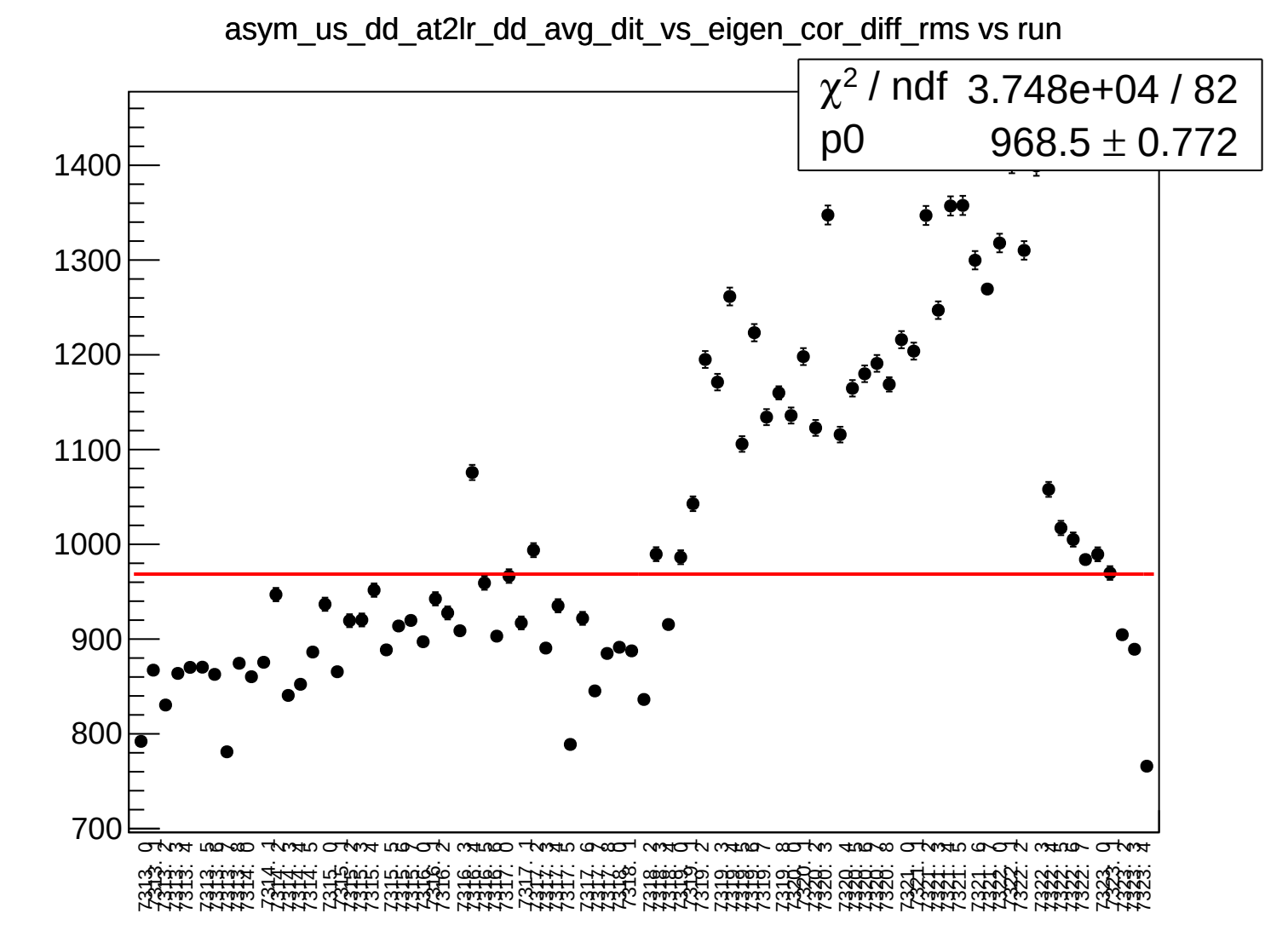

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.223e+06 / 82
p0 3.446e−11 ± 5.529e−14
1.2
1
0.8
0.6
0.4
0.2
0

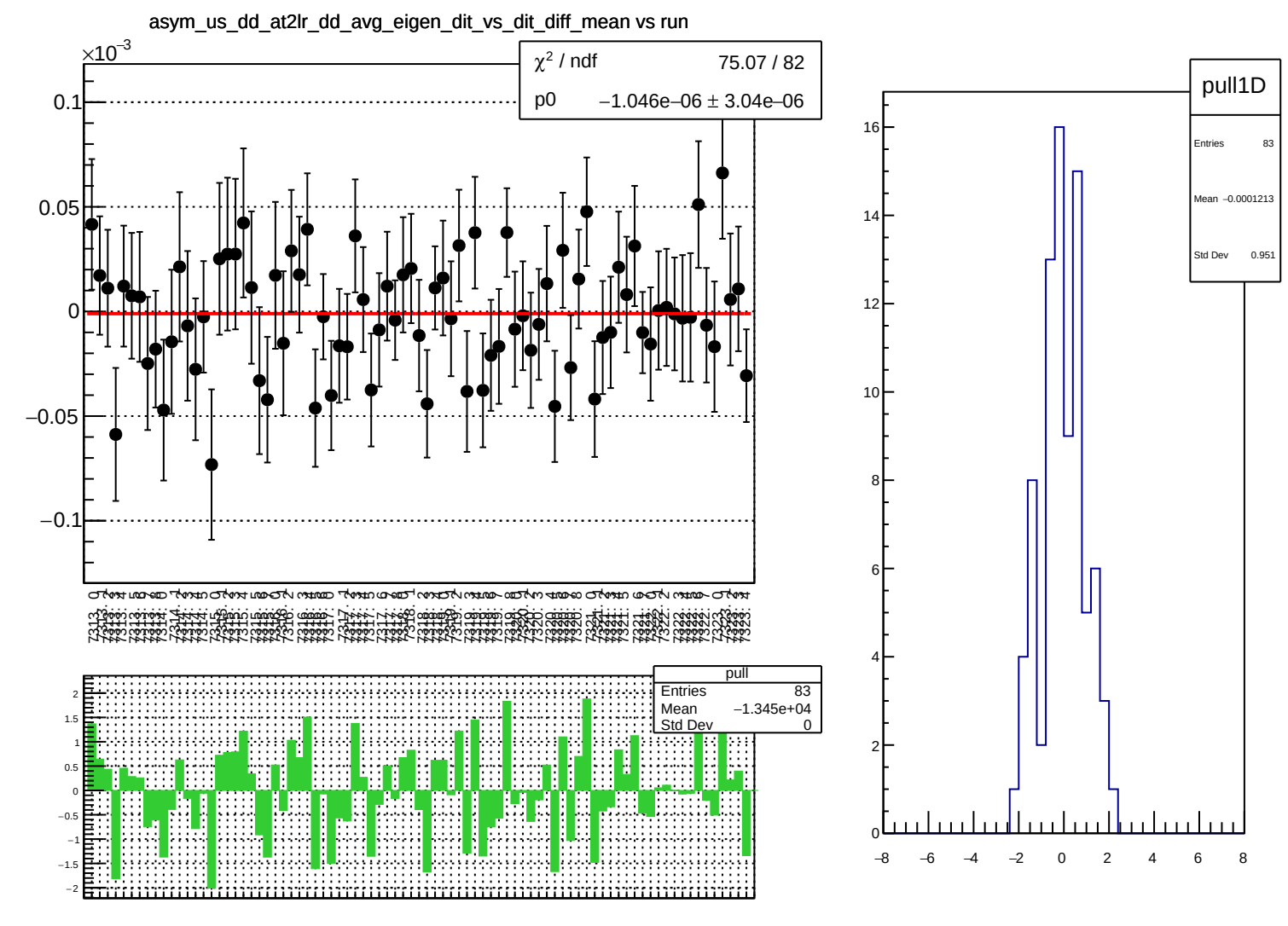

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.19 / 82
p0 1.31 ± 1.092
pull
Entries 83
Mean 294.6
Std Dev 0

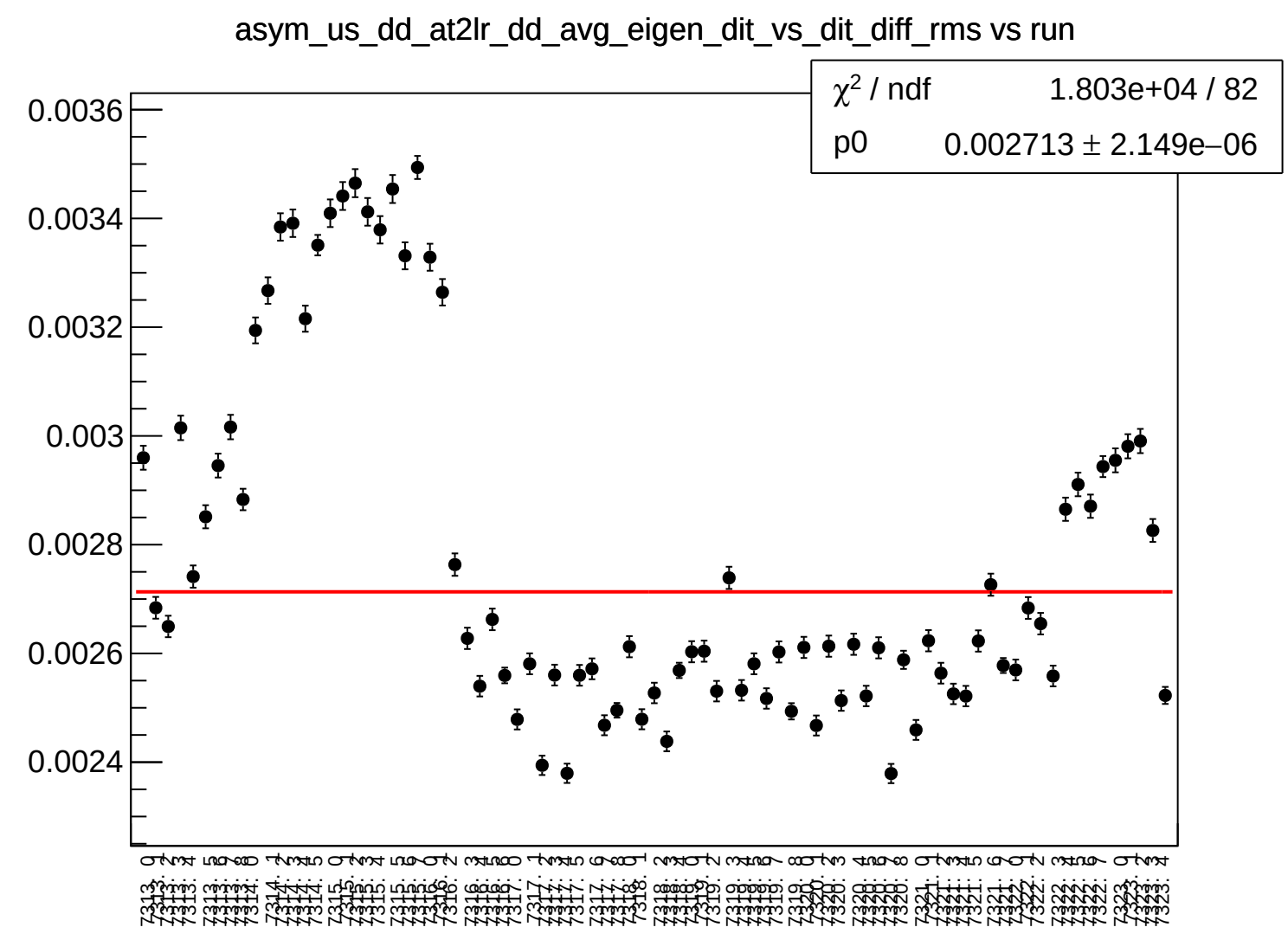

pull1D
Entries 83
Mean 0.01725
Std Dev 0.9889

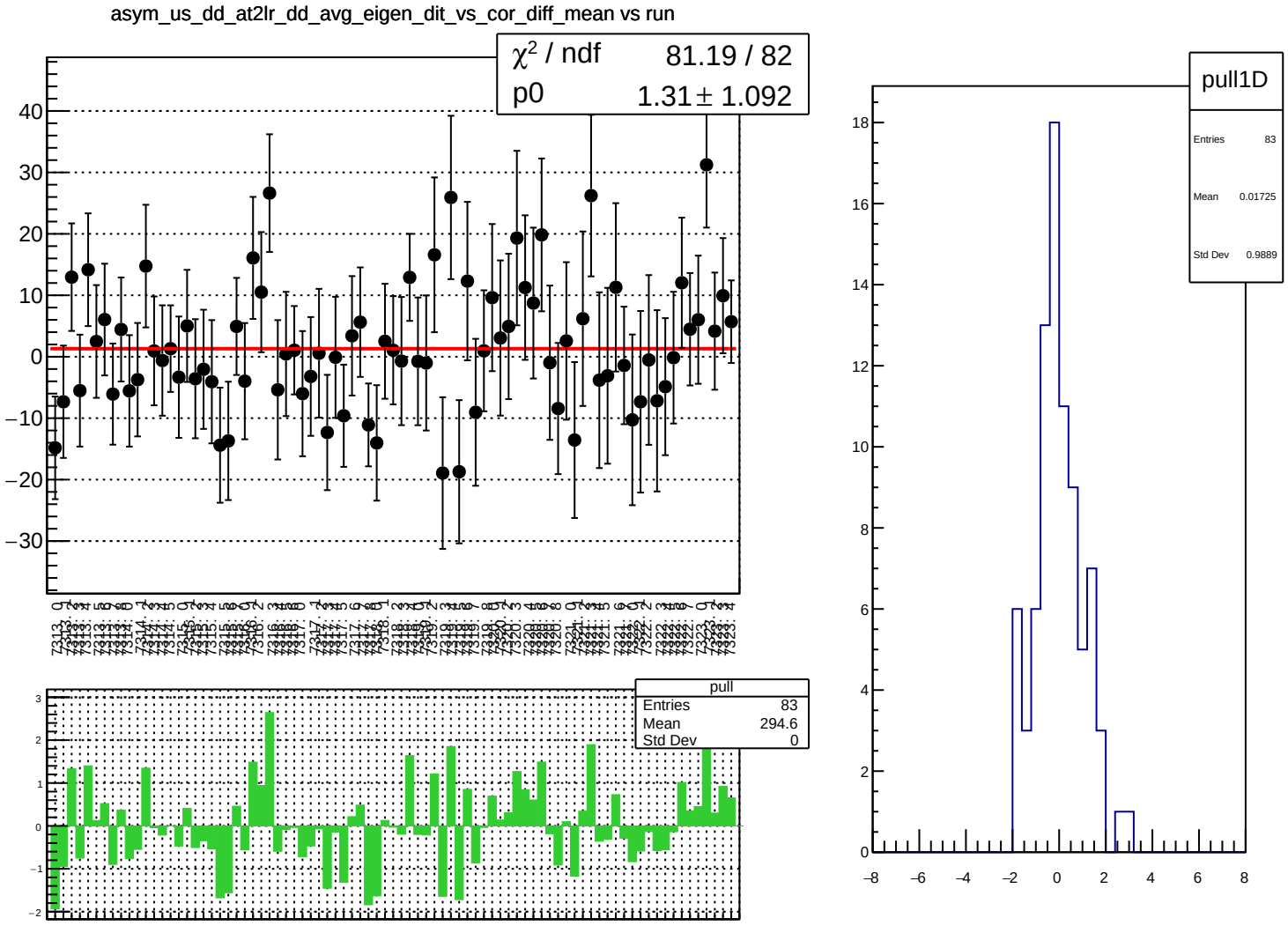

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 82
p0 968.5 ± 0.772
1400
1300
1200
1100
1000
900
800
700

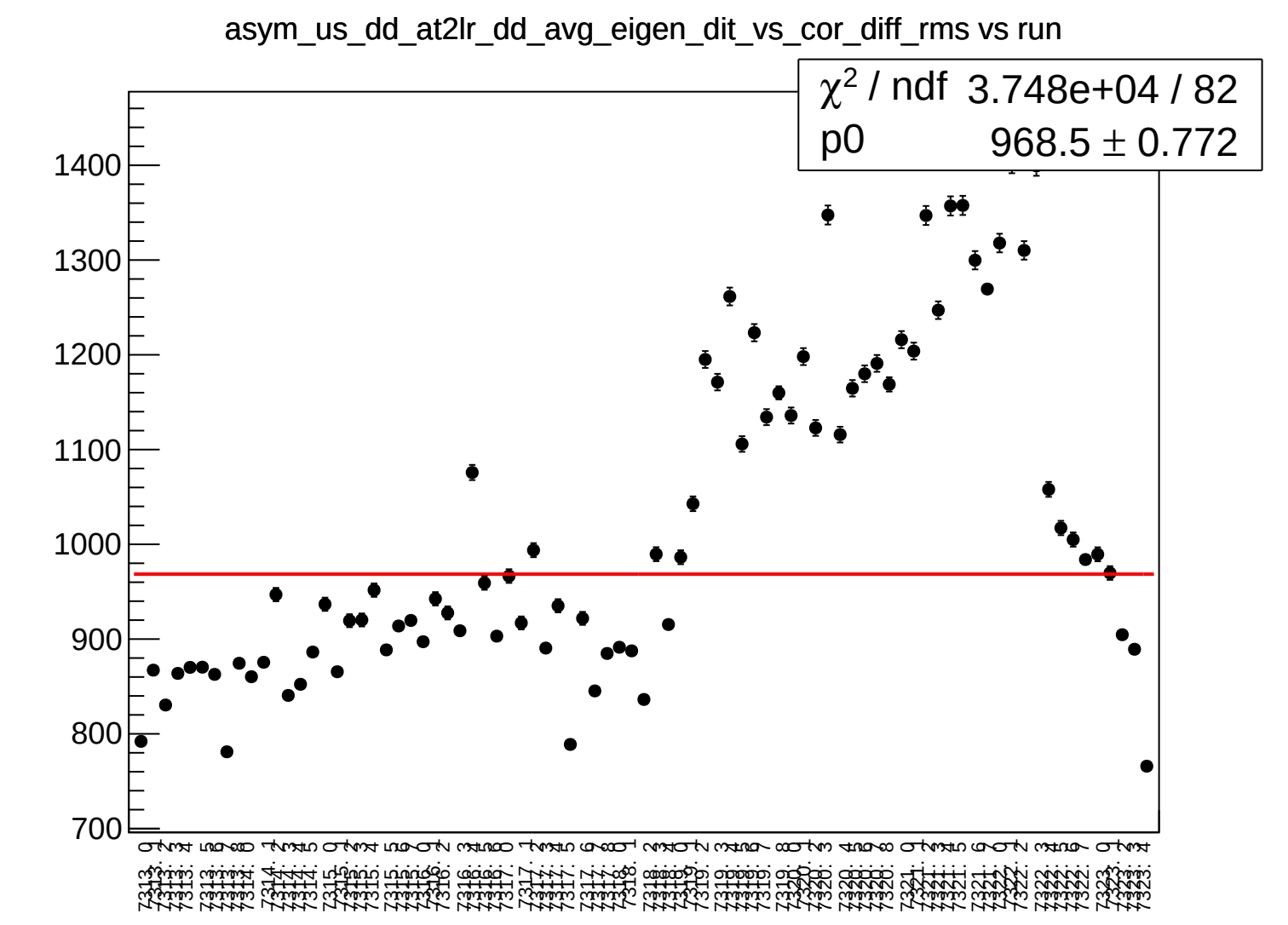

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.19 / 82
p0 1.31 ± 1.092
pull
Entries 83
Mean 294.6
Std Dev 0
pull1D
Entries 83
Mean 0.01725
Std Dev 0.9889

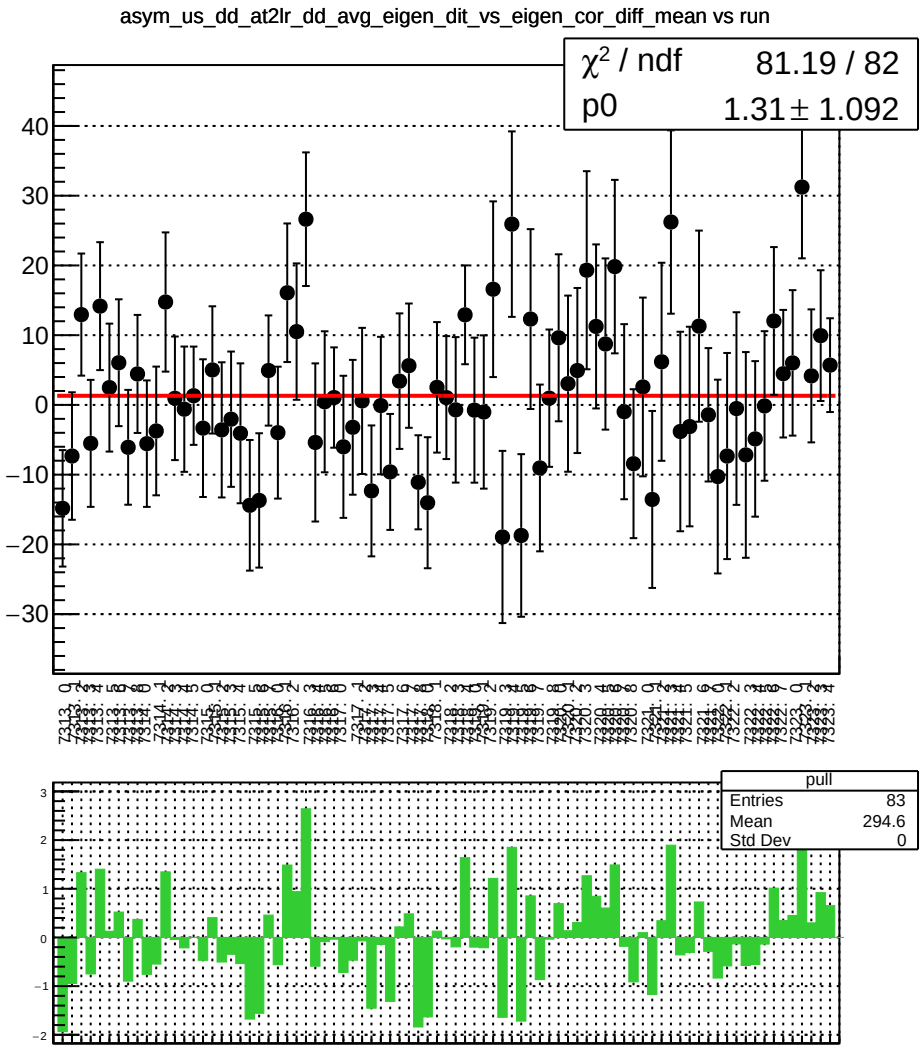

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 82
p0 968.5 ± 0.772
1400
1300
1200
1100
1000
900
800
700

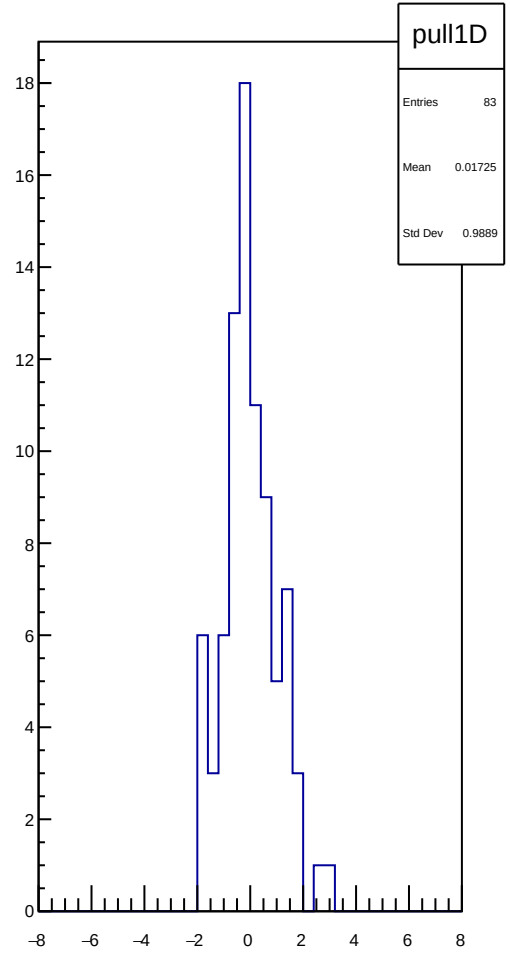

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.07 / 82
p0 −1.046e−06 ± 3.04e−06
pull
Entries 83
Mean −1.345e+04
Std Dev 0
pull1D
Entries 83
Mean −0.0001213
Std Dev 0.951

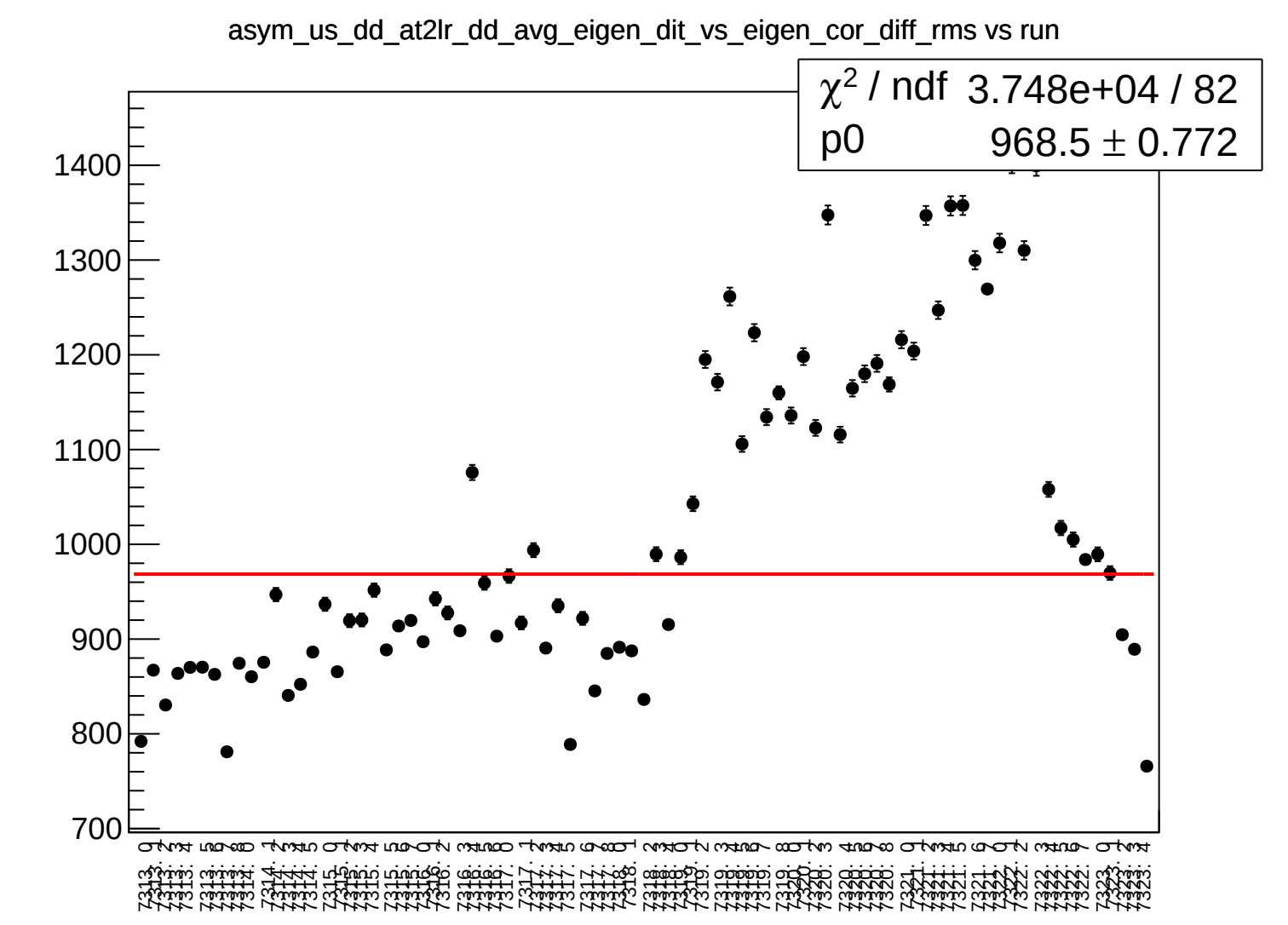

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.803e+04 / 82
p0 0.002713 ± 2.149e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

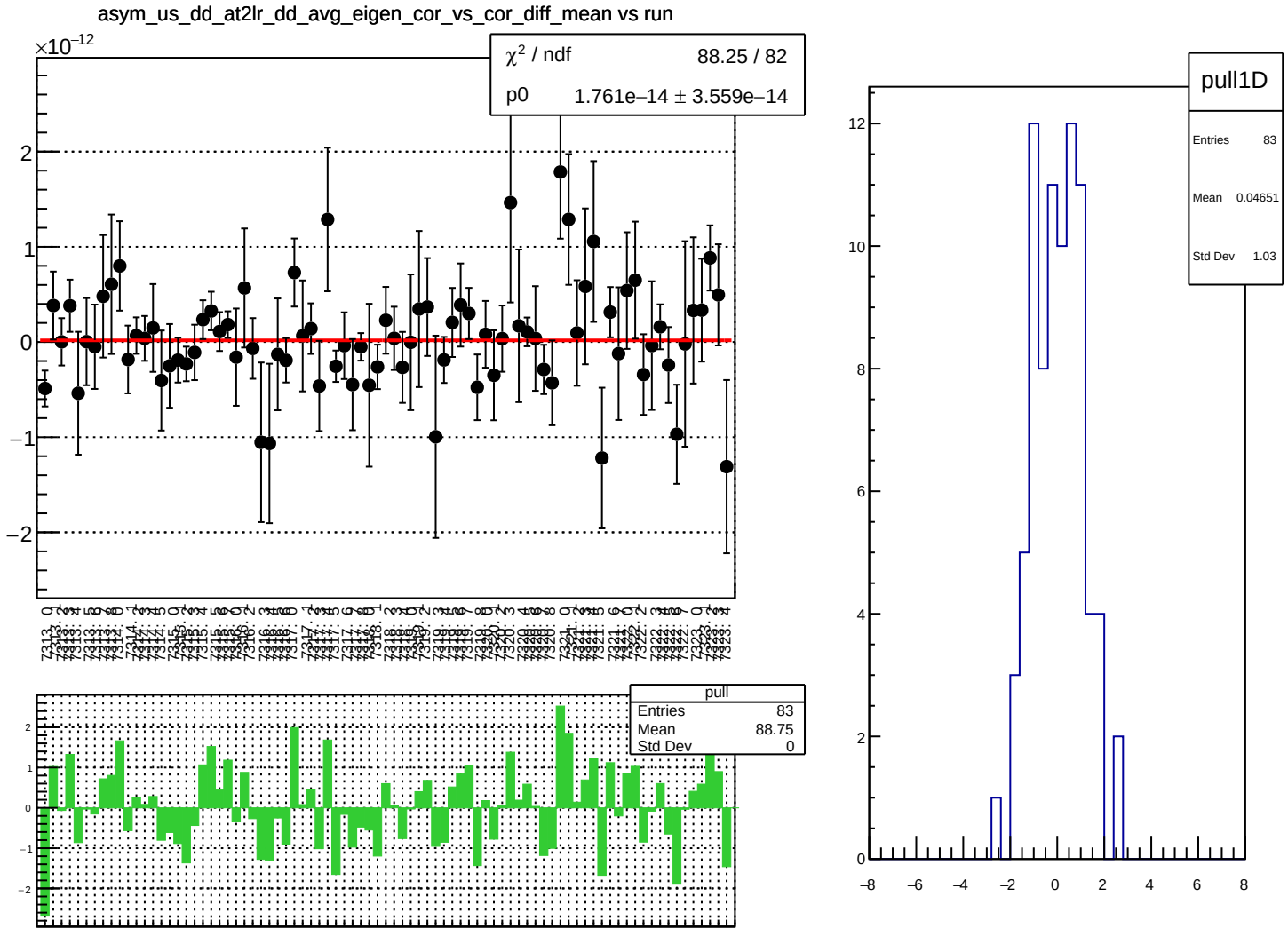

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.19 / 82
p0 1.31 ± 1.092
pull
Entries 83
Mean 294.6
Std Dev 0
pull1D
Entries 83
Mean 0.01725
Std Dev 0.9889

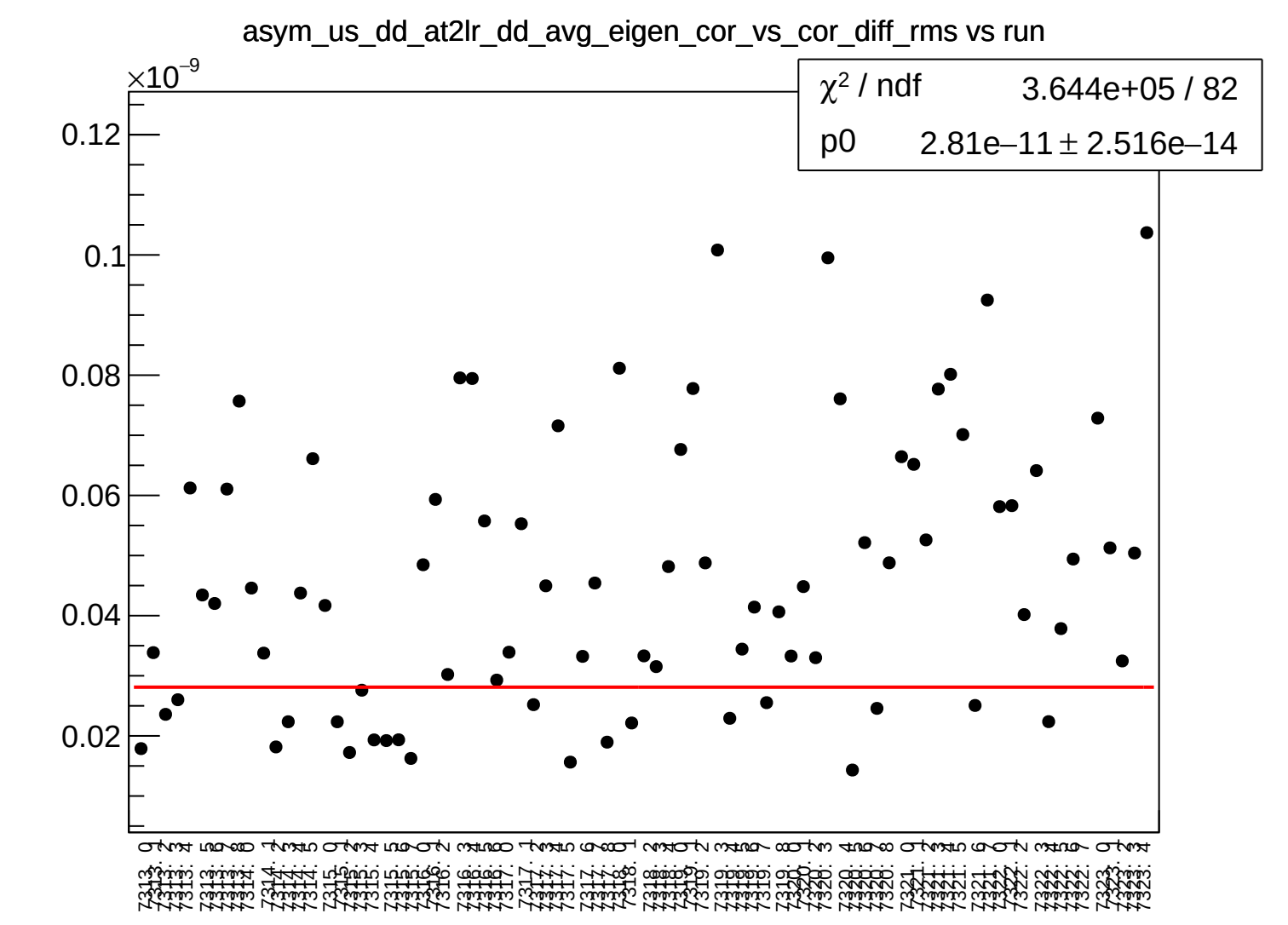

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 82
p0 968.5 ± 0.772
1400
1300
1200
1100
1000
900
800
700

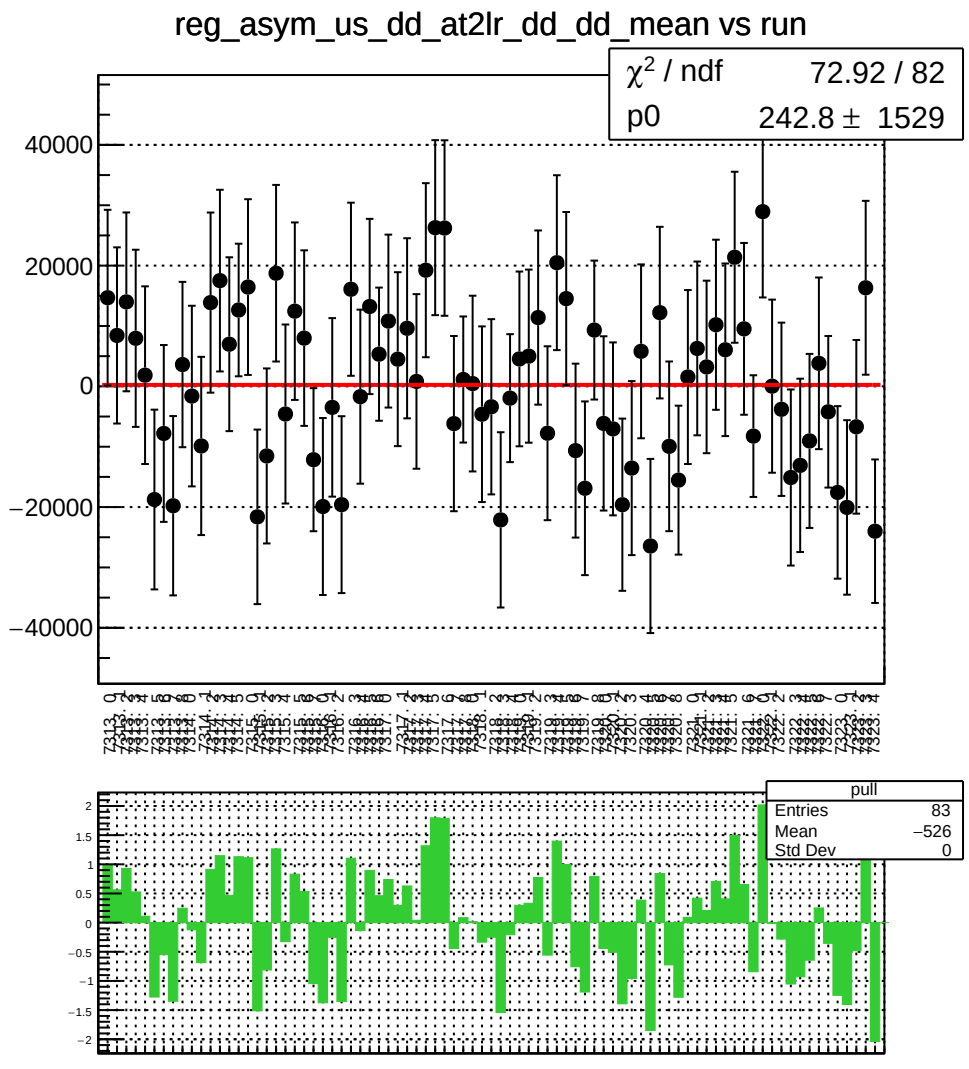

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.19 / 82
p0 1.31 ± 1.092
pull
Entries 83
Mean 294.6
Std Dev 0

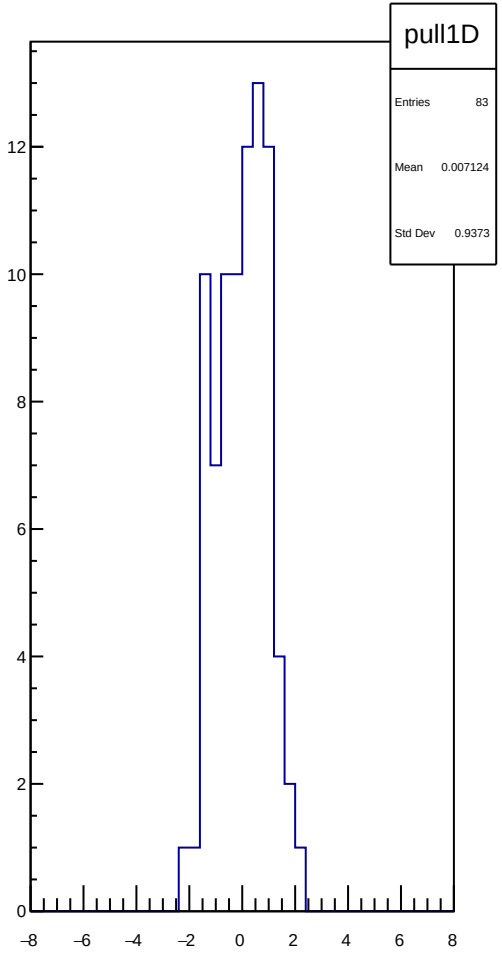

pull1D
Entries 83
Mean 0.01725
Std Dev 0.9889

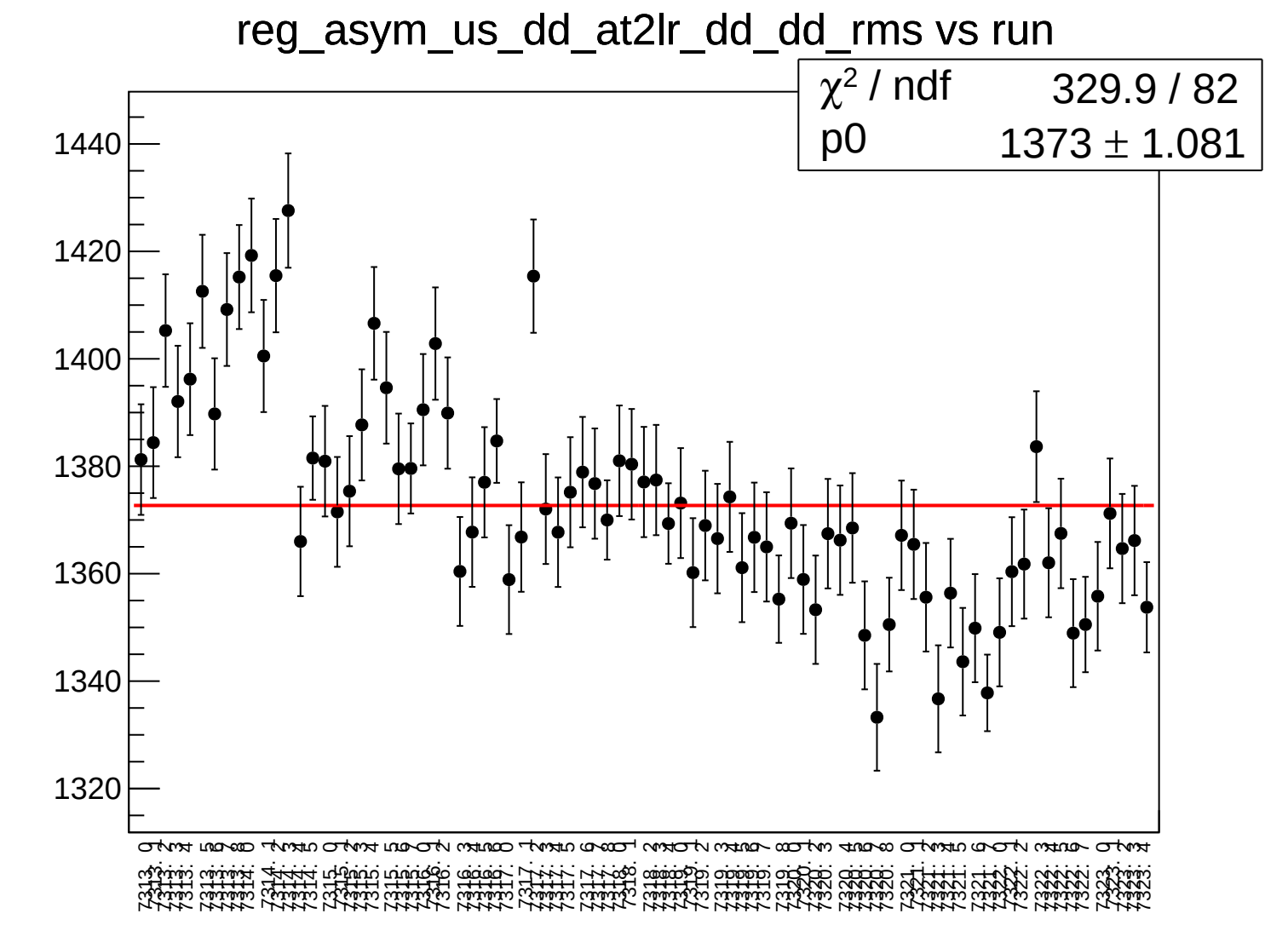

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 82
p0 968.5 ± 0.772
1400
1300
1200
1100
1000
900
800
700

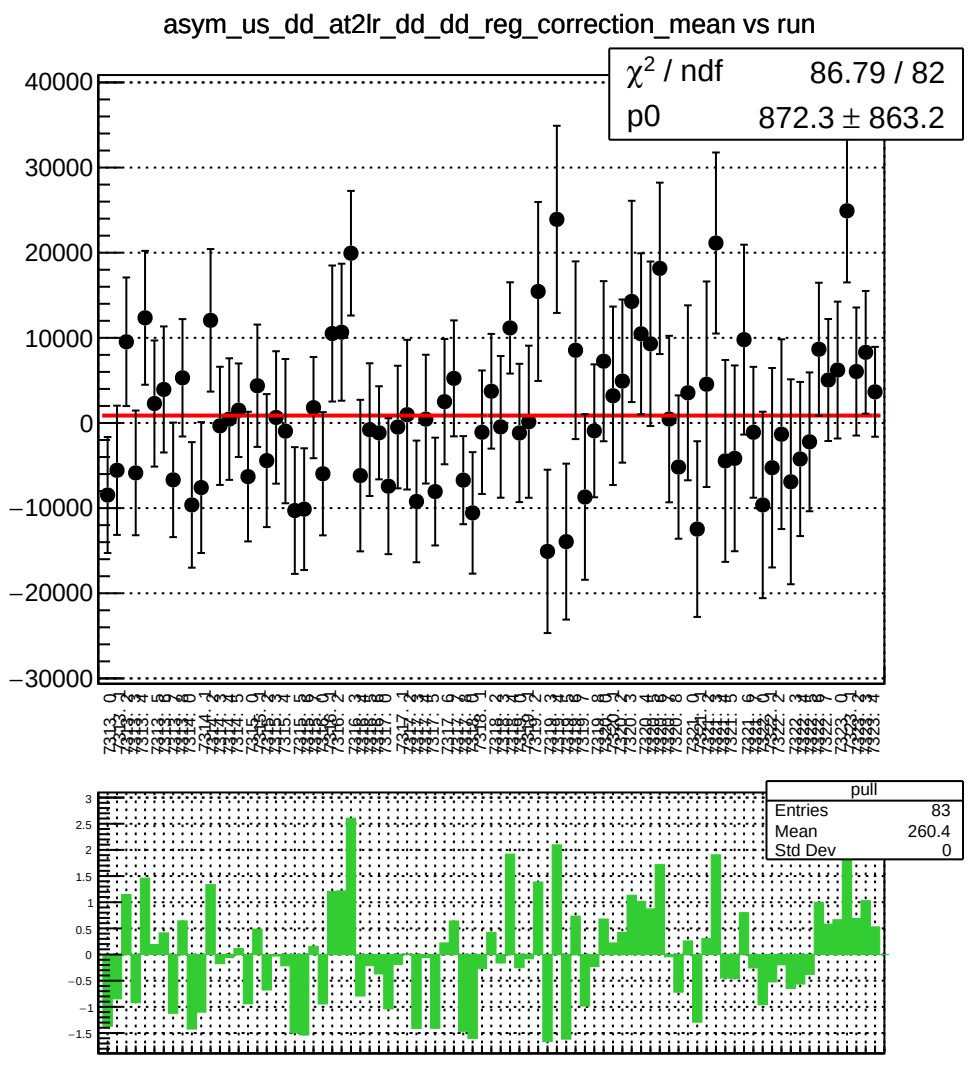

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.25 / 82
p0 1.761e−14 ± 3.559e−14
pull
Entries 83
Mean 88.75
Std Dev 0
pull1D
Entries 83
Mean 0.04651
Std Dev 1.03

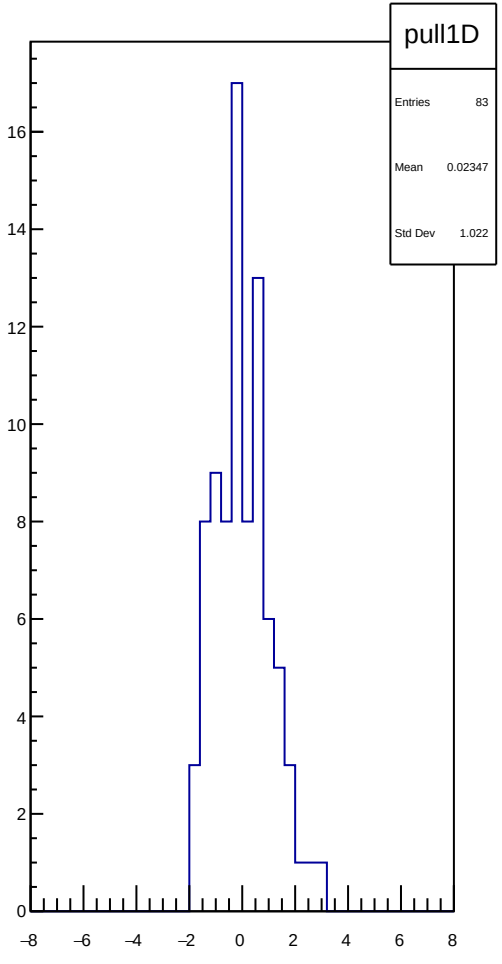

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.644e+05 / 82
p0 2.81e−11 ± 2.516e−14
0.12
0.1
0.08
0.06
0.04
0.02

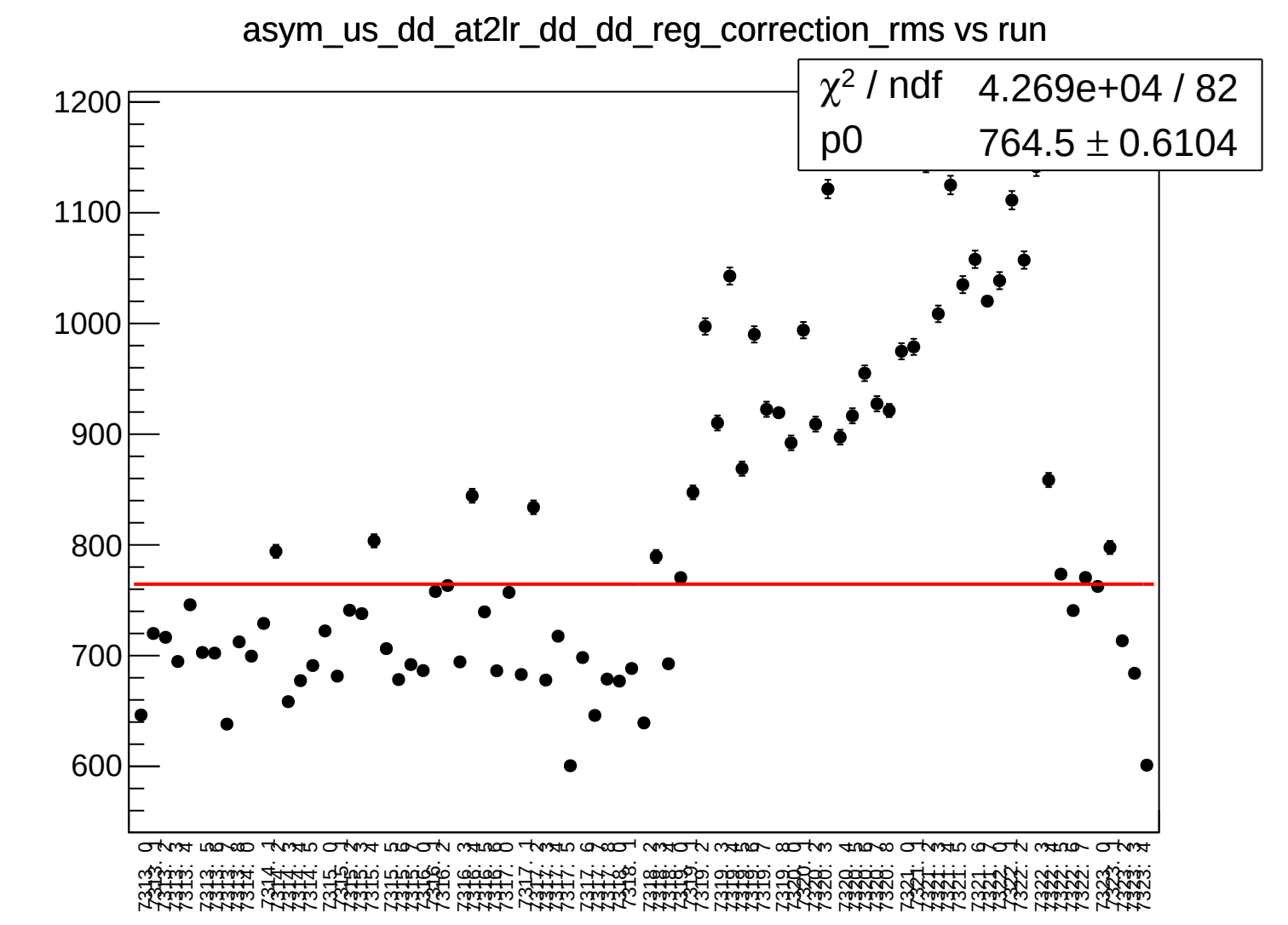

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 72.92 / 82
p0 242.8 ± 1529
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −526
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

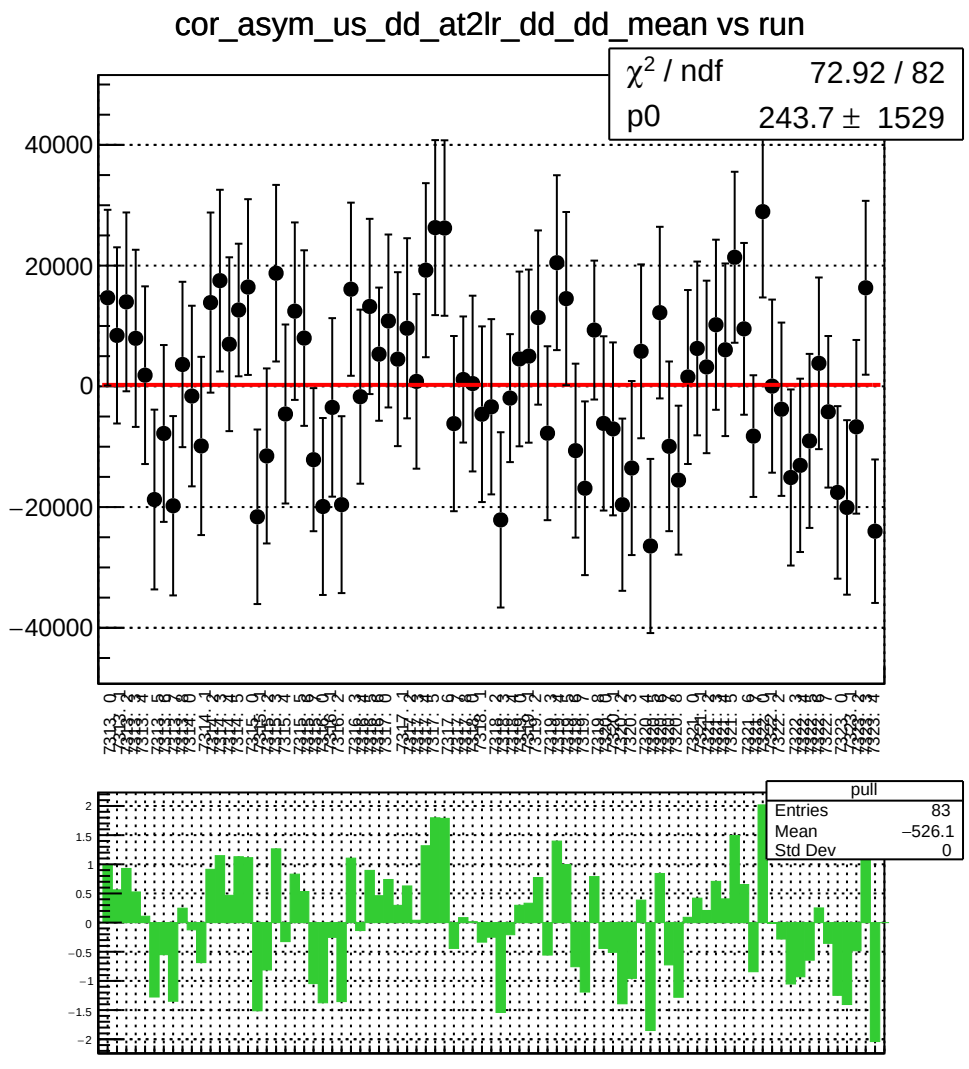

pull1D
Entries 83
Mean 0.007124
Std Dev 0.9373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

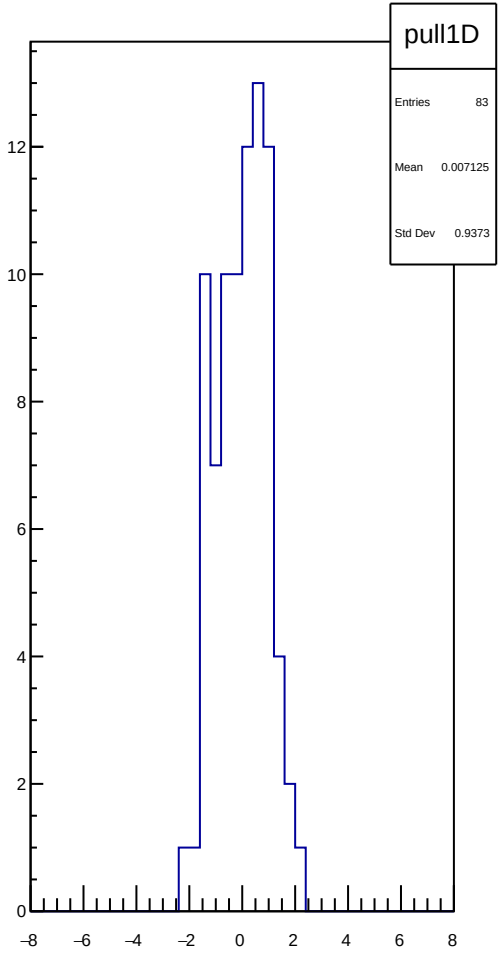

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 329.9 / 82
p0 1373 ± 1.081
1440
1420
1400
1380
1360
1340
1320

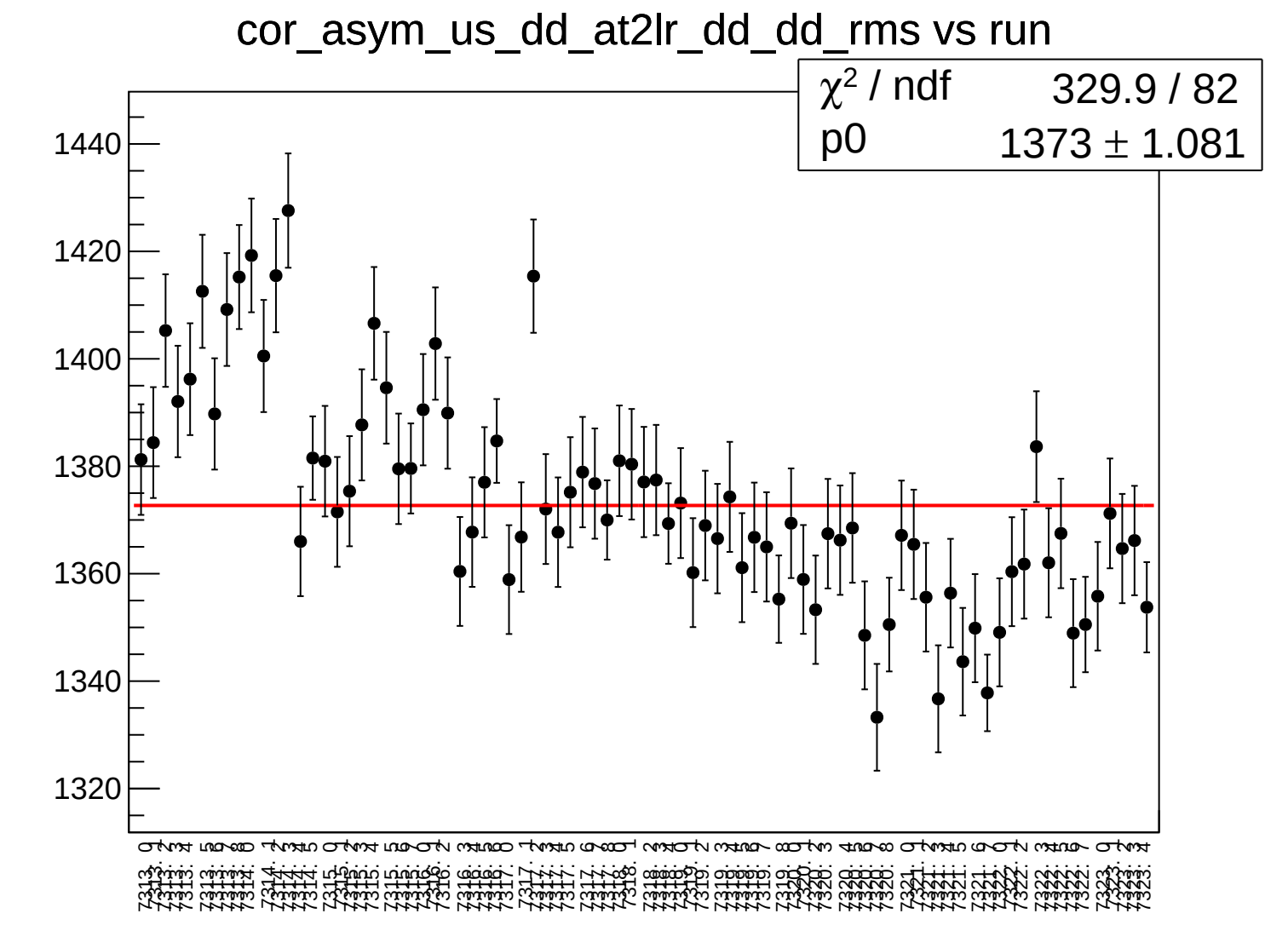

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.79 / 82
p0 872.3 ± 863.2
pull
Entries 83
Mean 260.4
Std Dev 0

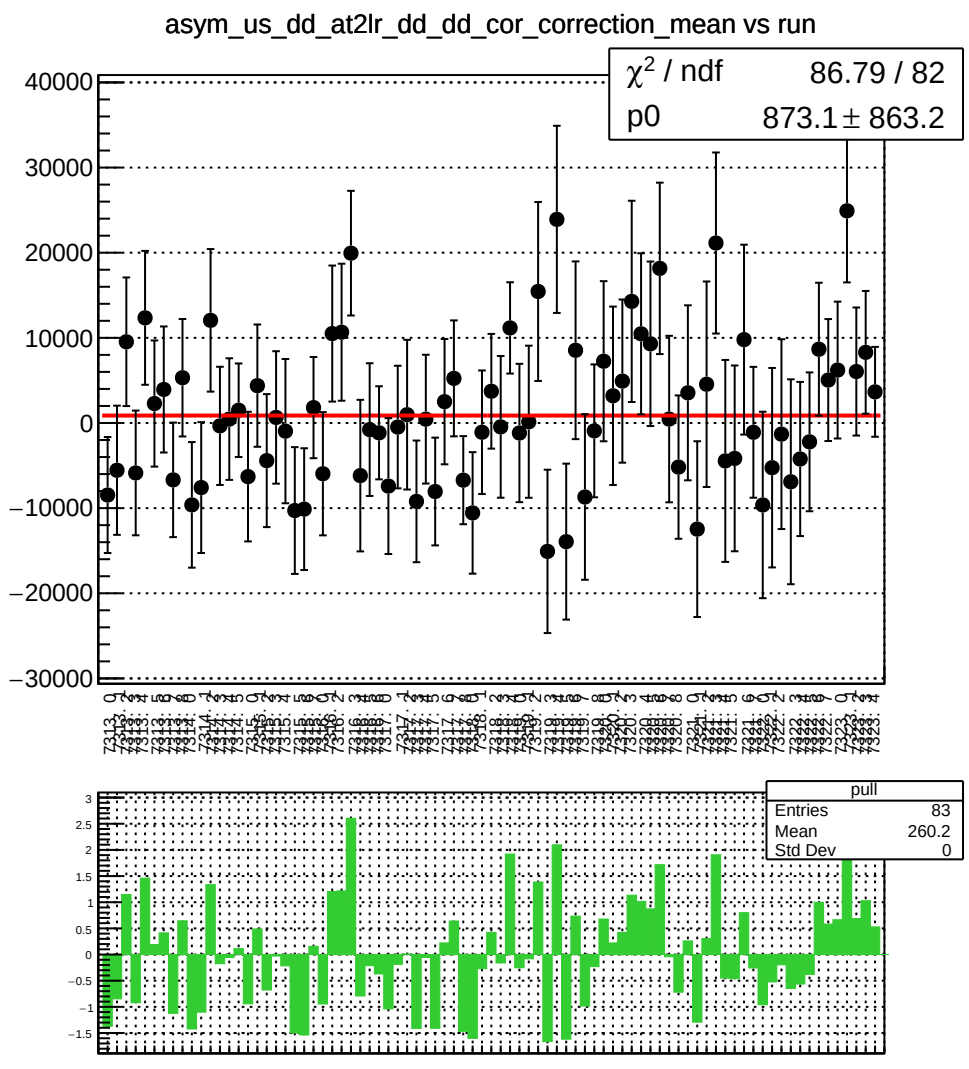

pull1D
Entries 83
Mean 0.02347
Std Dev 1.022

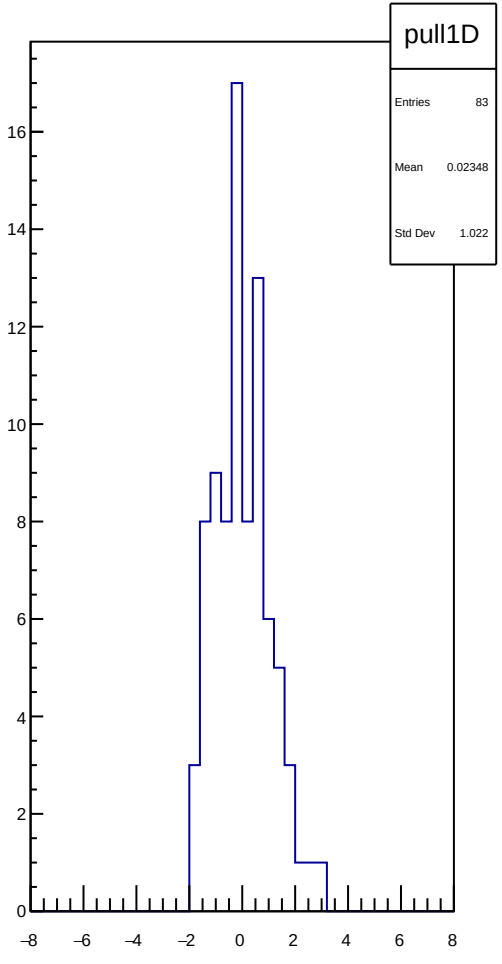

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4.269e+04 / 82
p0 764.5 ± 0.6104
1200
1100
1000
900
800
700
600

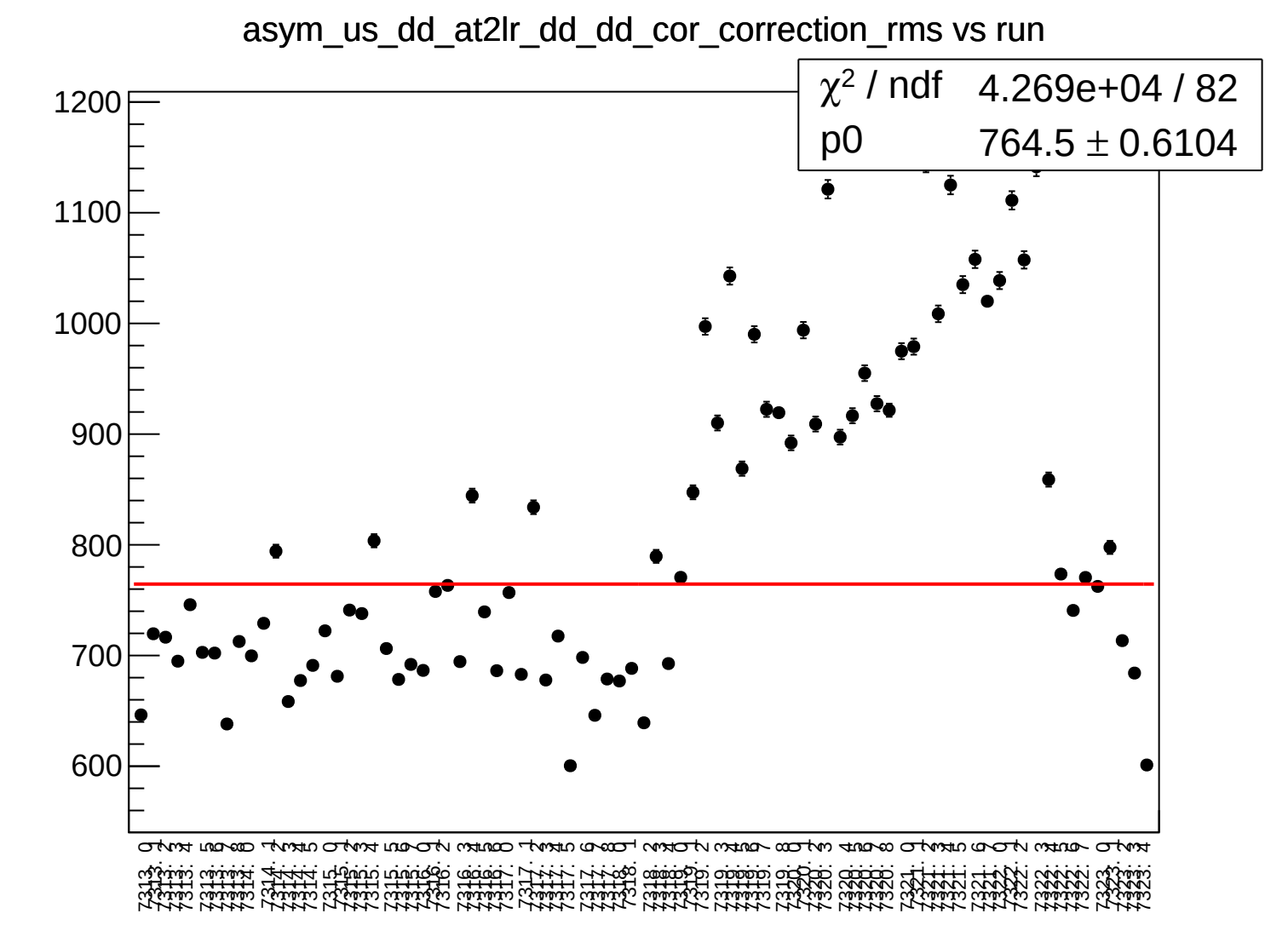

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 72.92 / 82
p0 243.7 ± 1529
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −526.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

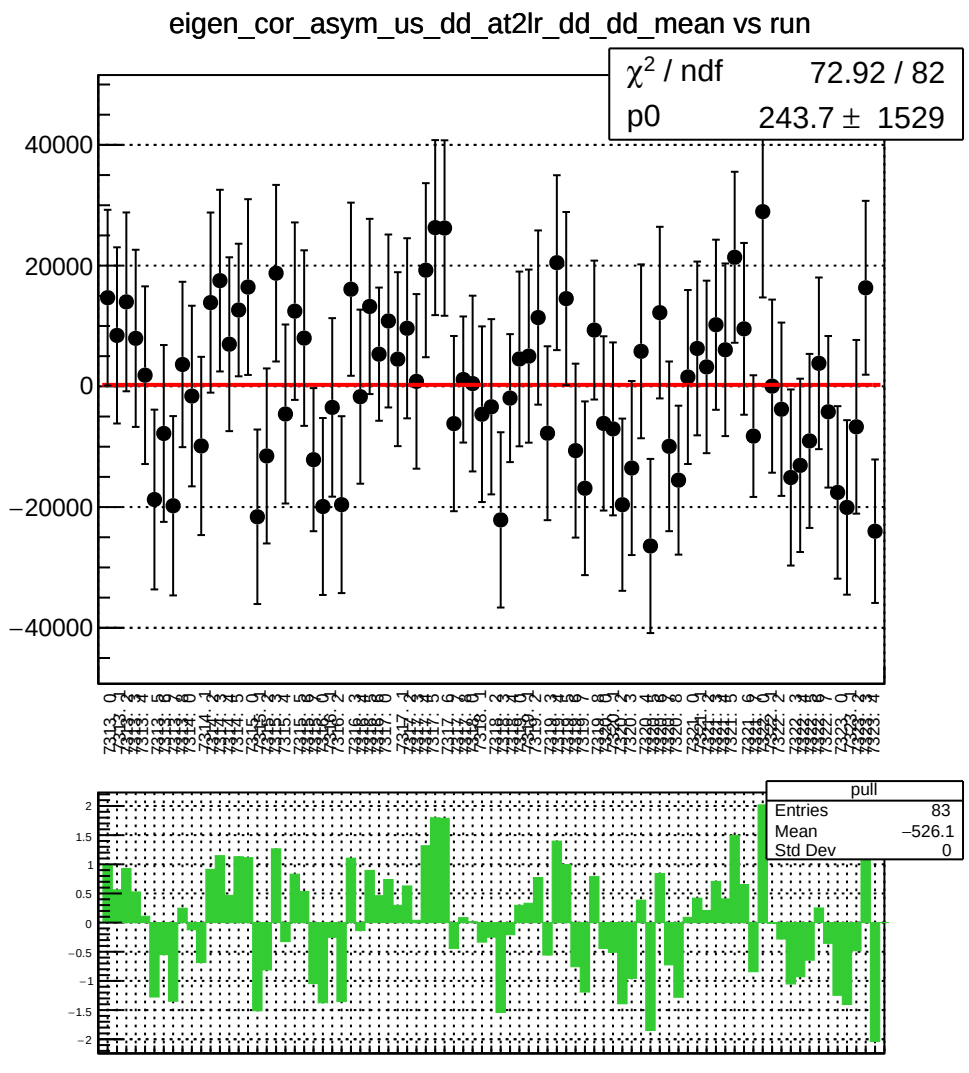

pull1D
Entries 83
Mean 0.007125
Std Dev 0.9373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

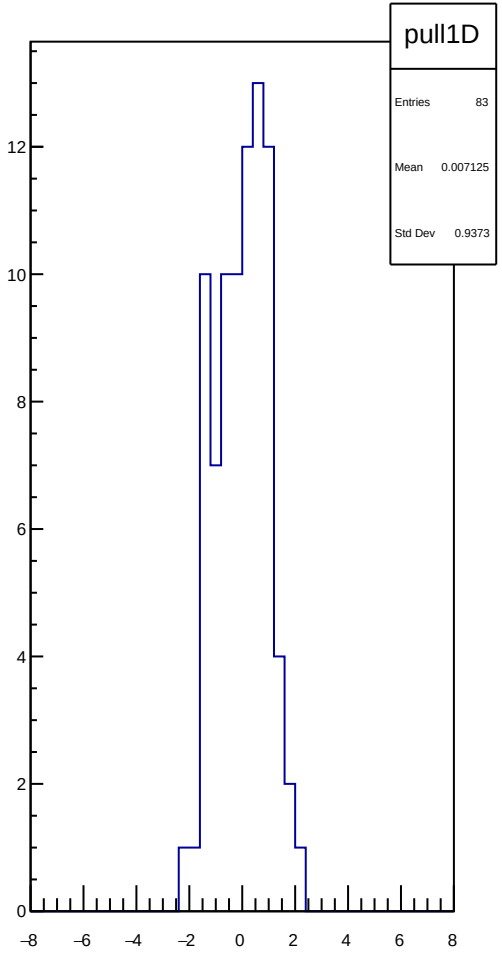

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 329.9 / 82
p0 1373 ± 1.081
1440
1420
1400
1380
1360
1340
1320

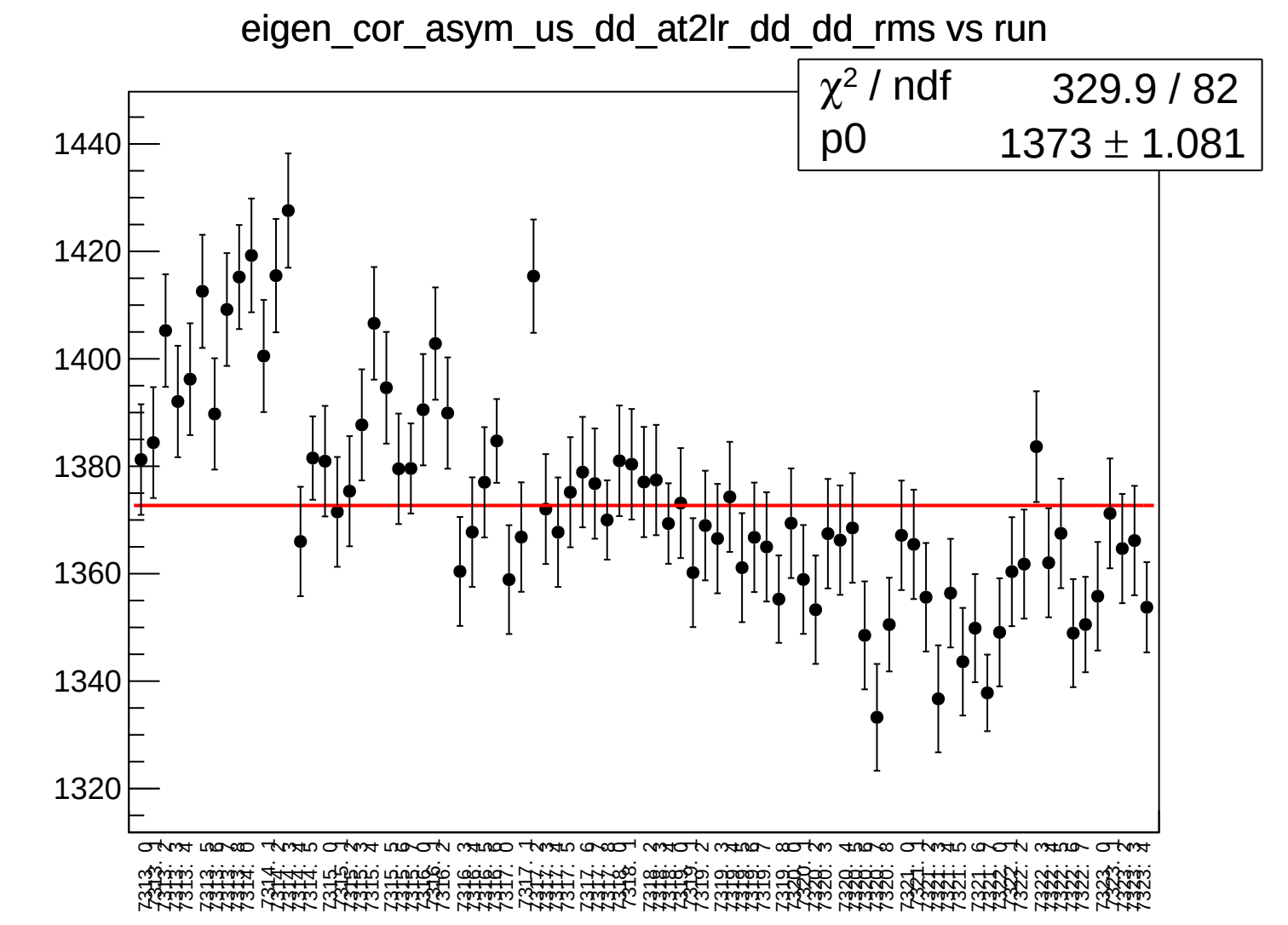

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 86.79 / 82
p0 873.1 ± 863.2
pull
Entries 83
Mean 260.2
Std Dev 0

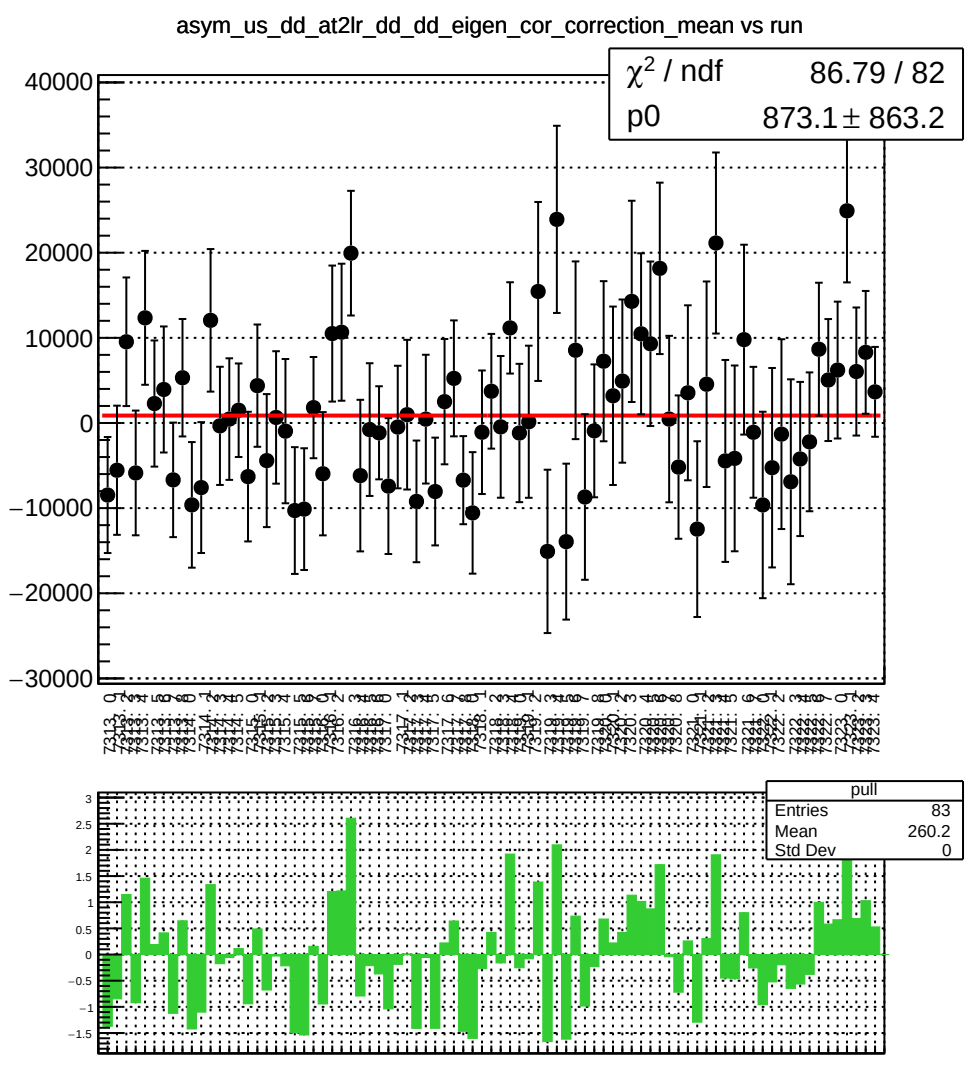

pull1D
Entries 83
Mean 0.02348
Std Dev 1.022

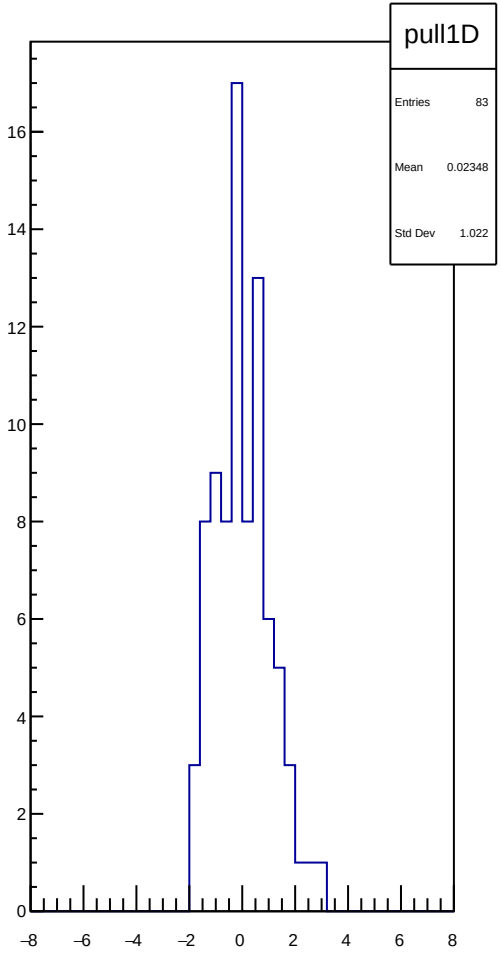

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4.269e+04 / 82
p0 764.5 ± 0.6104
1200
1100
1000
900
800
700
600

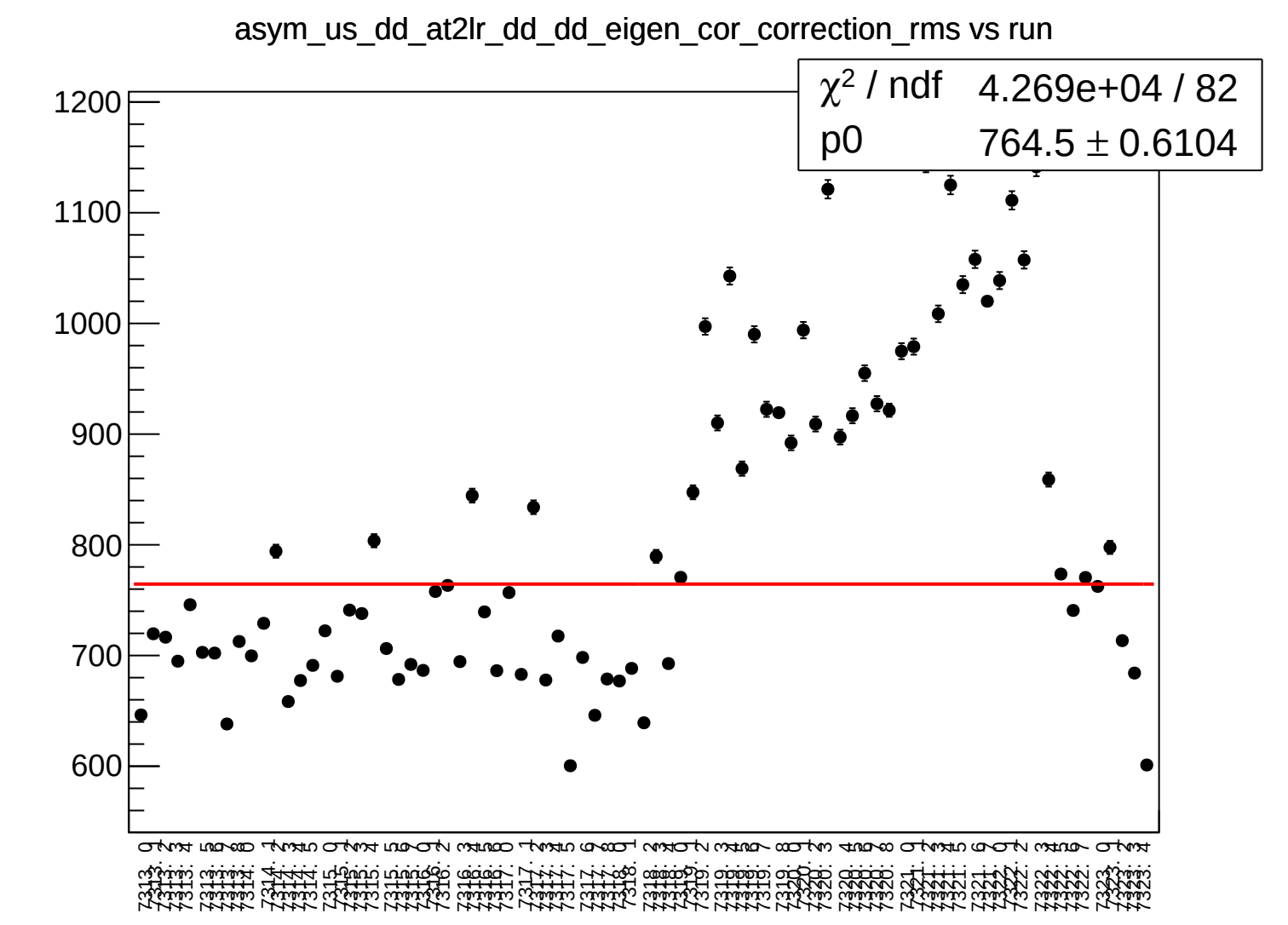

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 72.92 / 82
p0 243.7 ± 1529
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −526.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

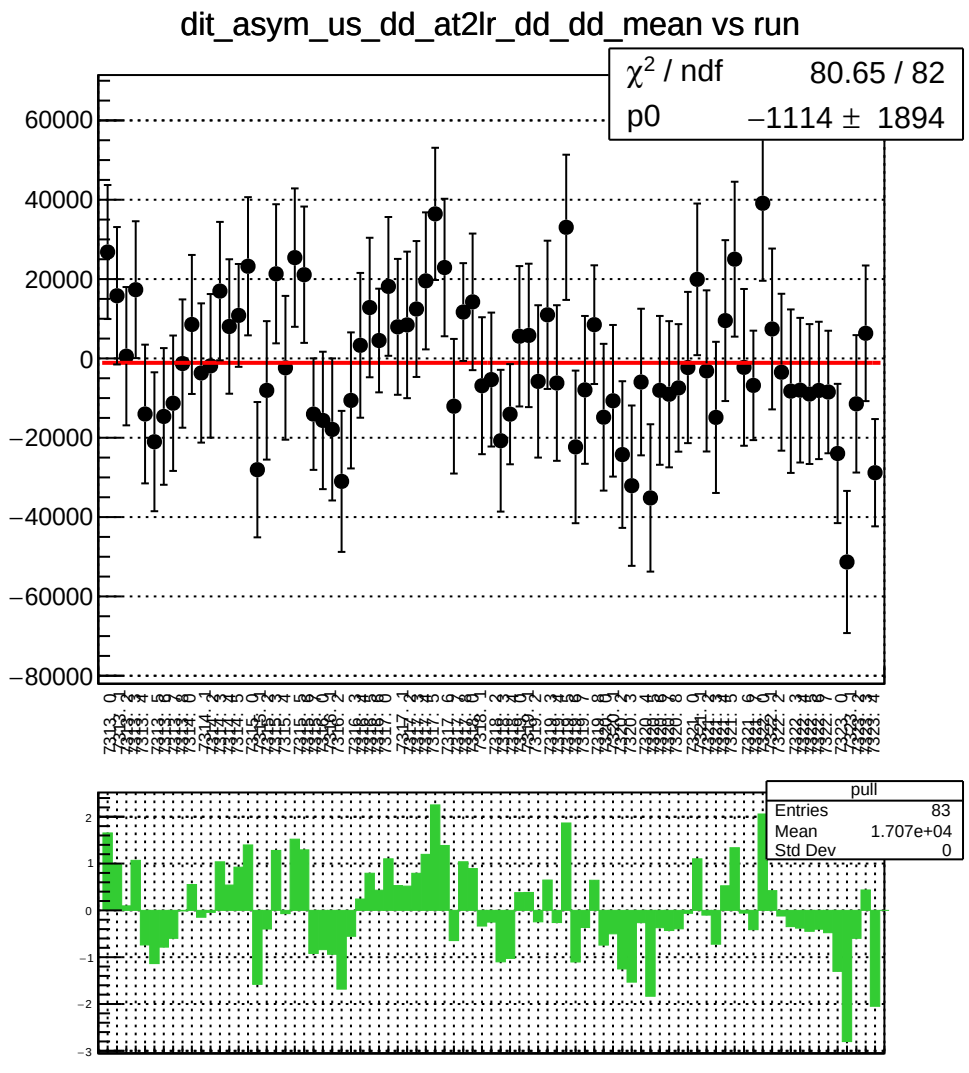

pull1D
Entries 83
Mean 0.007125
Std Dev 0.9373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

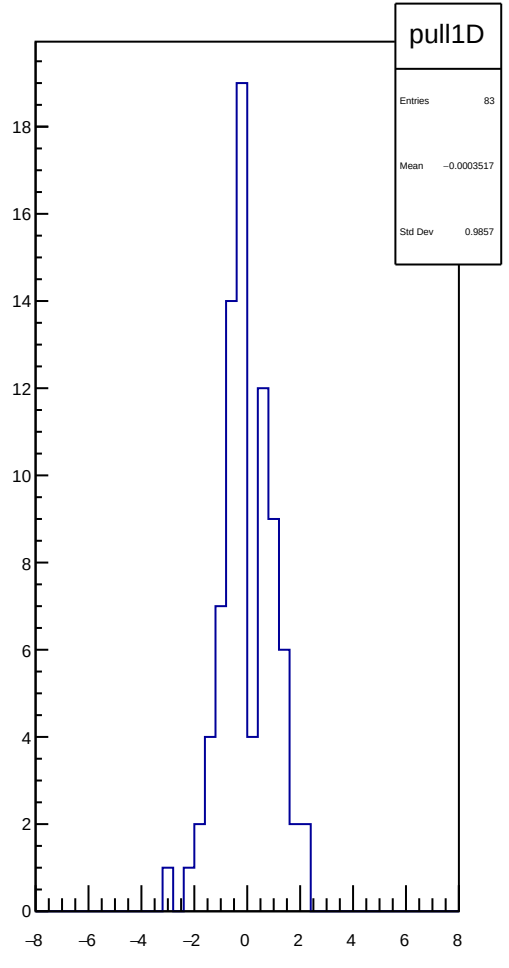

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 329.9 / 82
p0 1373 ± 1.081
1440
1420
1400
1380
1360
1340
1320

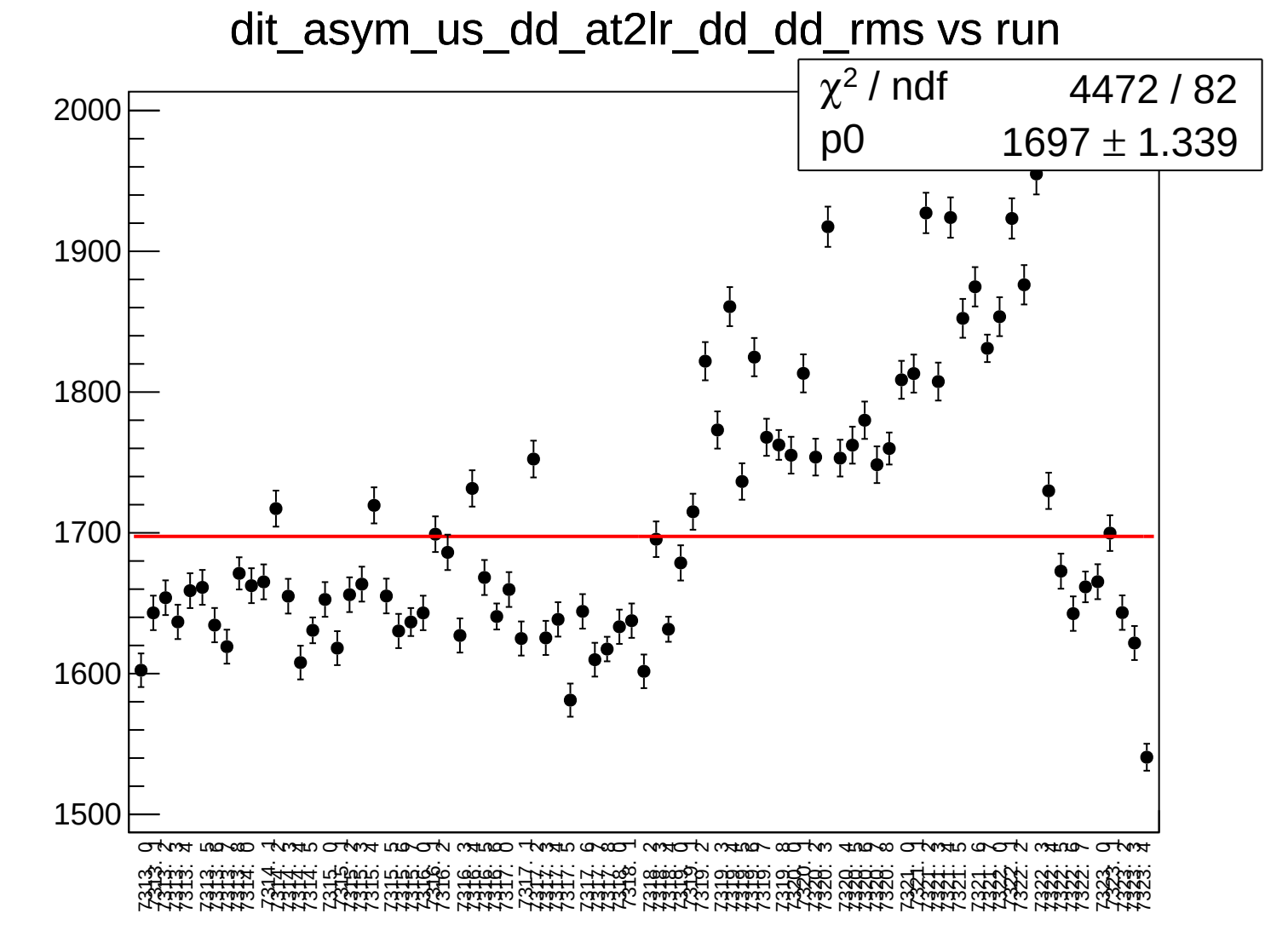

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.79 / 82
p0 873.1 ± 863.2
pull
Entries 83
Mean 260.2
Std Dev 0

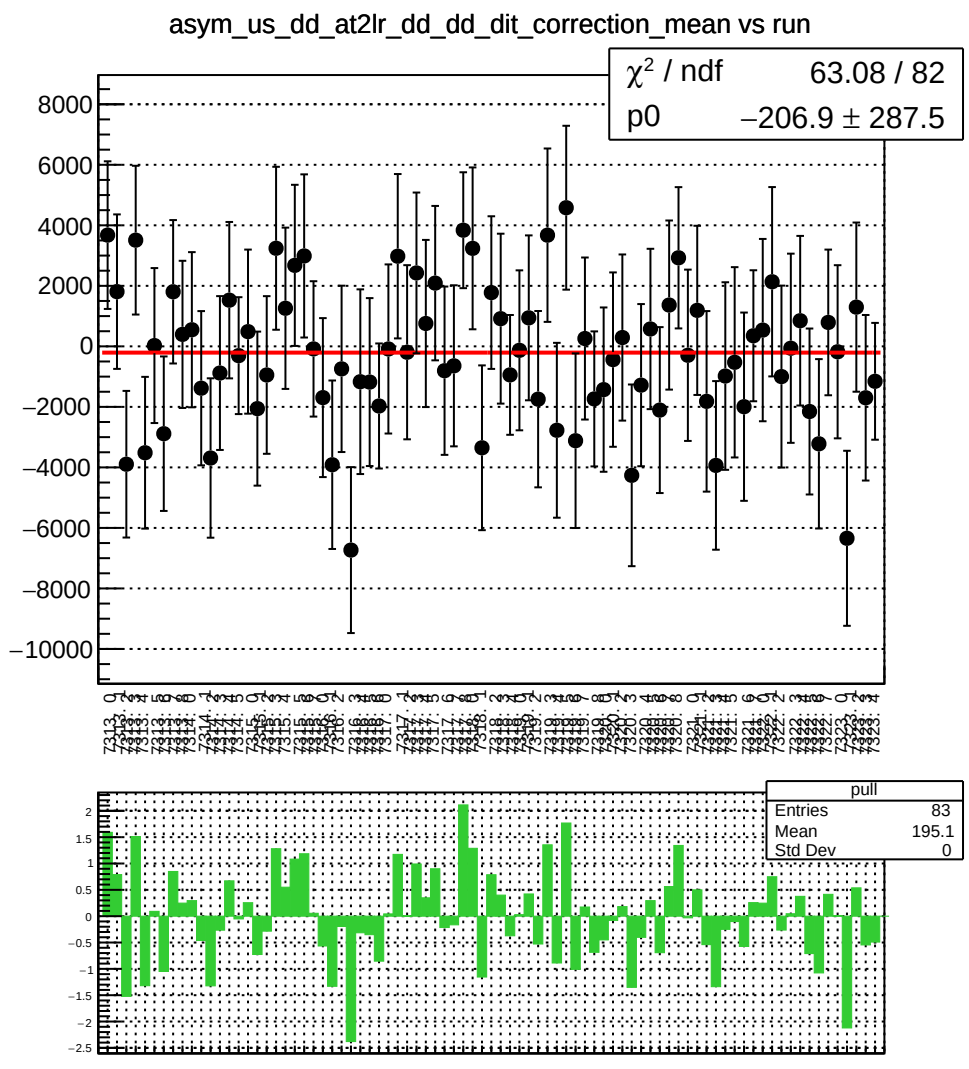

pull1D
Entries 83
Mean 0.02348
Std Dev 1.022

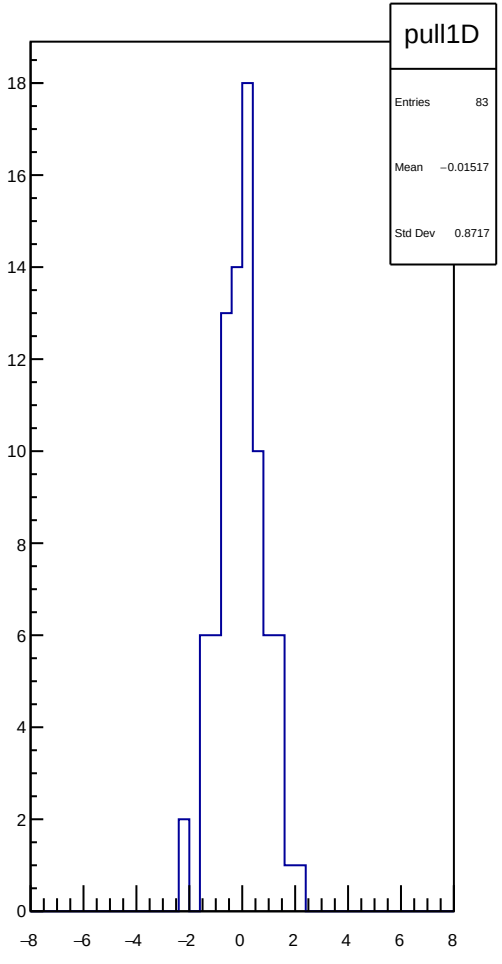

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.269e+04 / 82
p0 764.5 ± 0.6104
1200
1100
1000
900
800
700
600

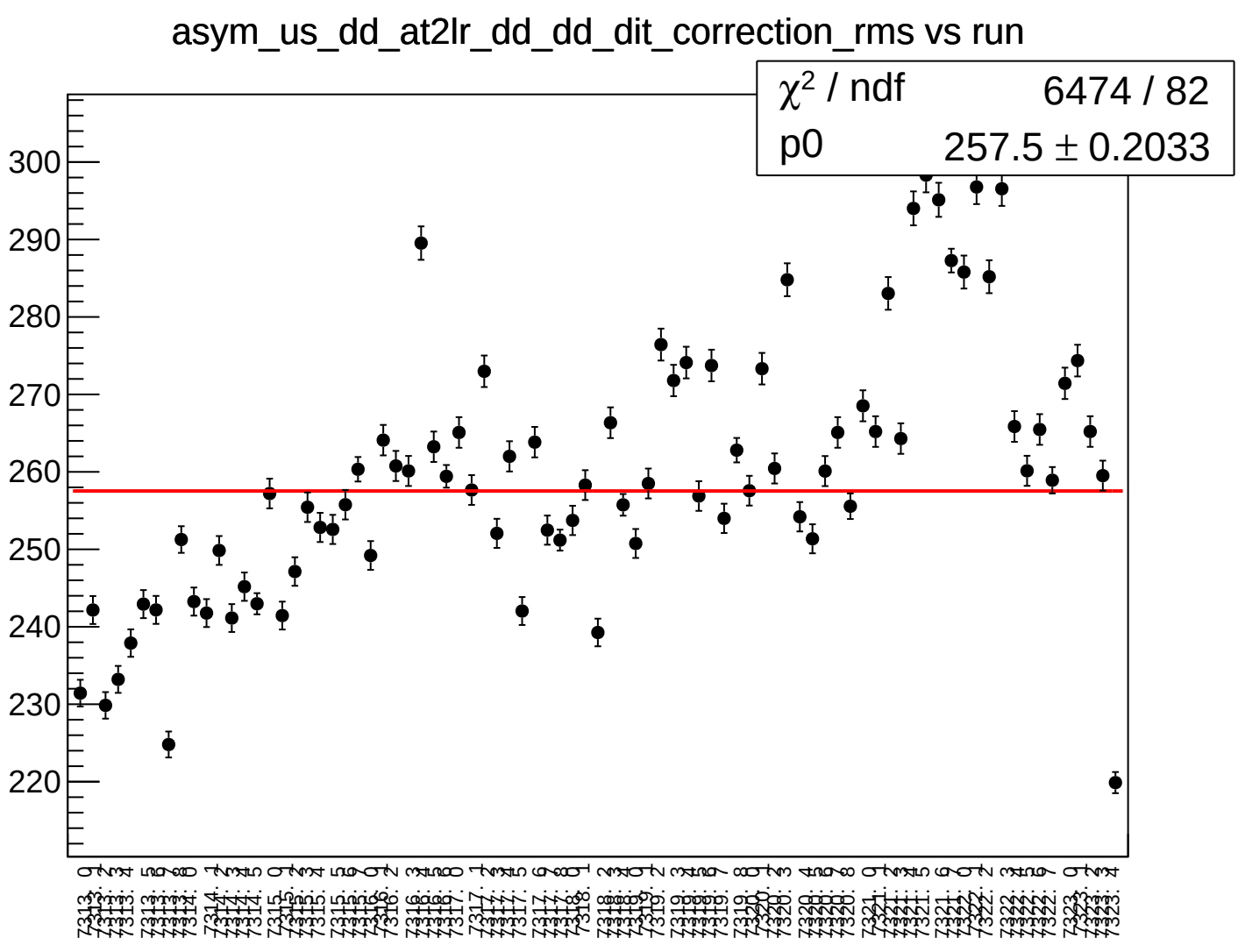

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 80.65 / 82
p0 −1114 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean 1.707e+04
Std Dev 0
2
1
0
−1
−2
−3

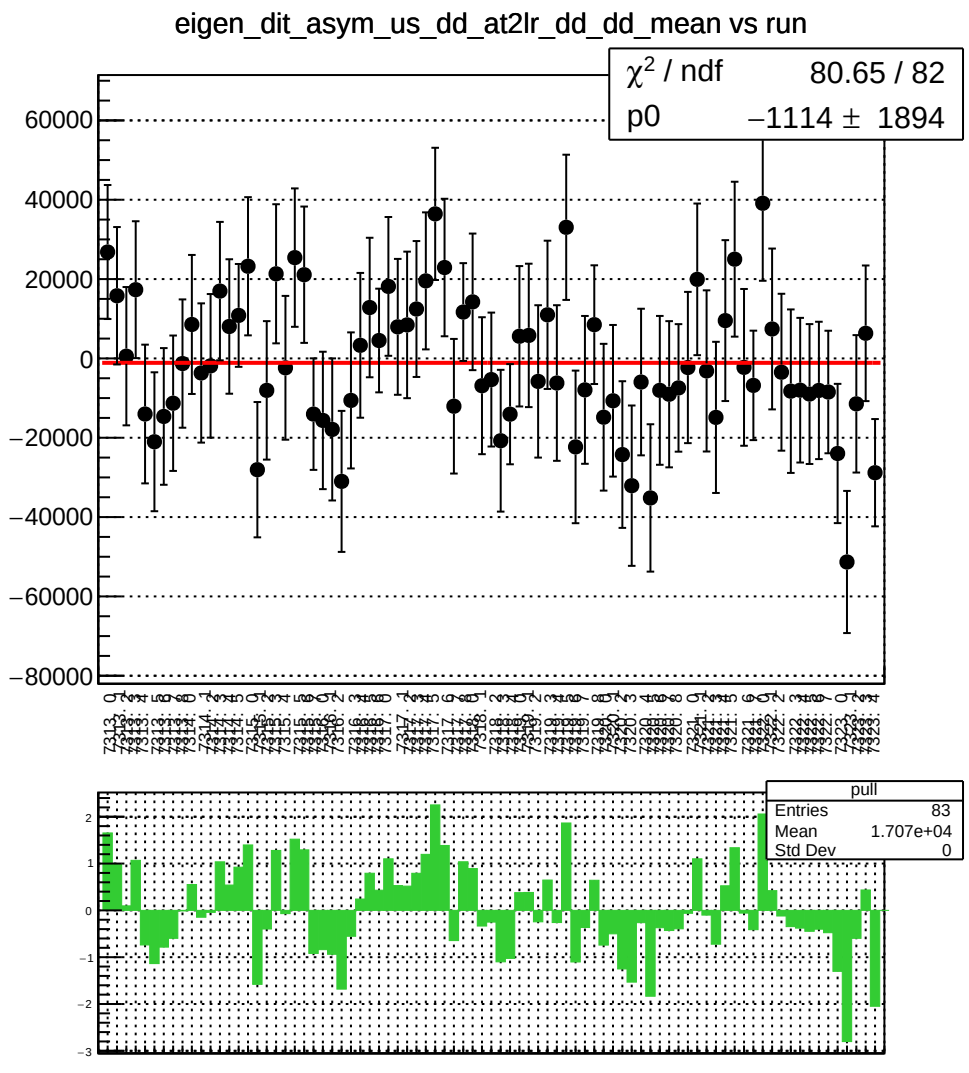

pull1D
Entries 83
Mean −0.0003517
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

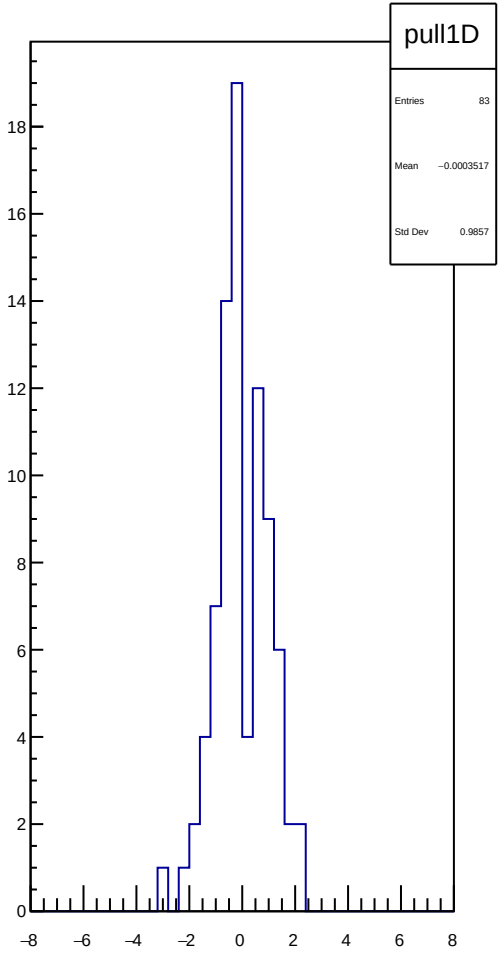

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 4472 / 82
p0 1697 ± 1.339
2000
1900
1800
1700
1600
1500

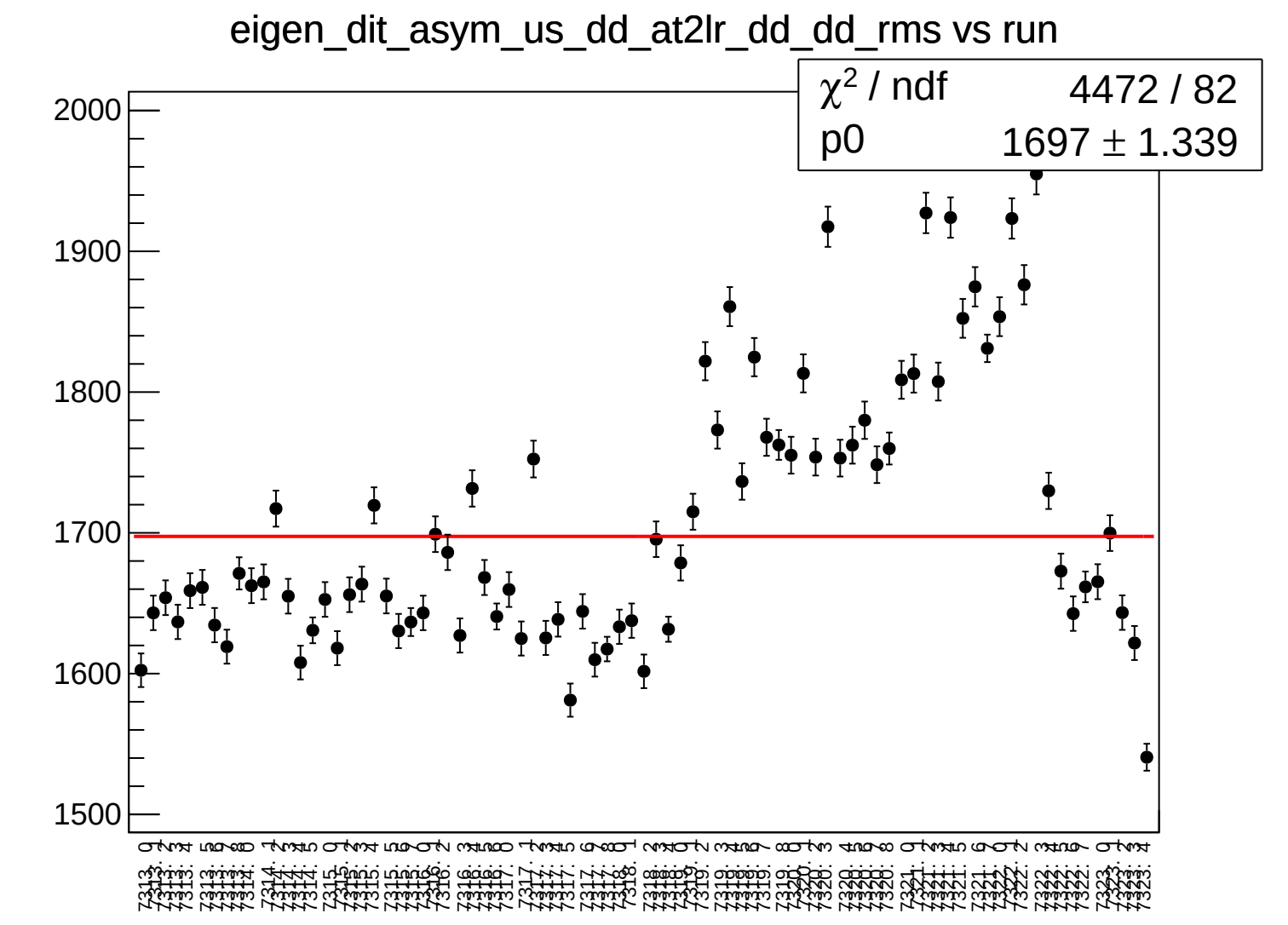

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 63.08 / 82
p0 −206.9 ± 287.5
pull
Entries 83
Mean 195.1
Std Dev 0

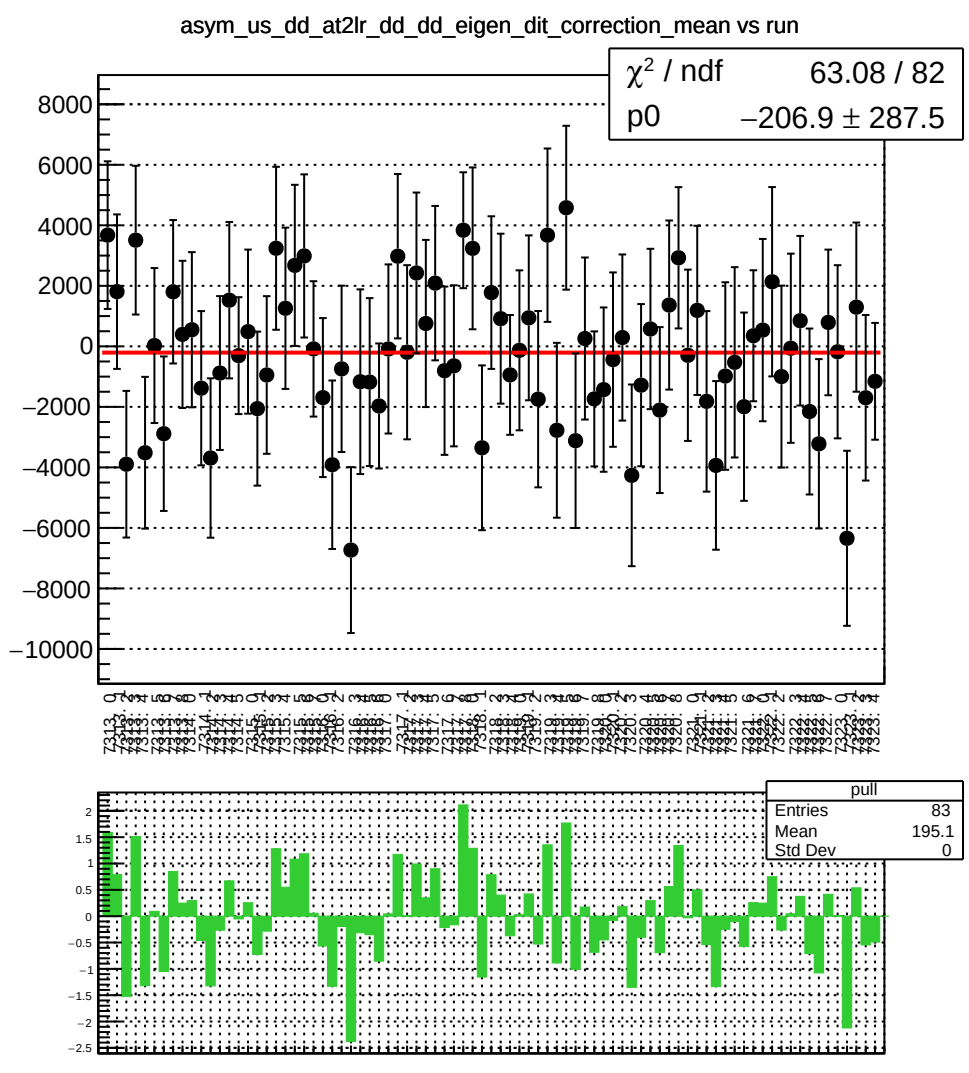

pull1D
Entries 83
Mean −0.01517
Std Dev 0.8717

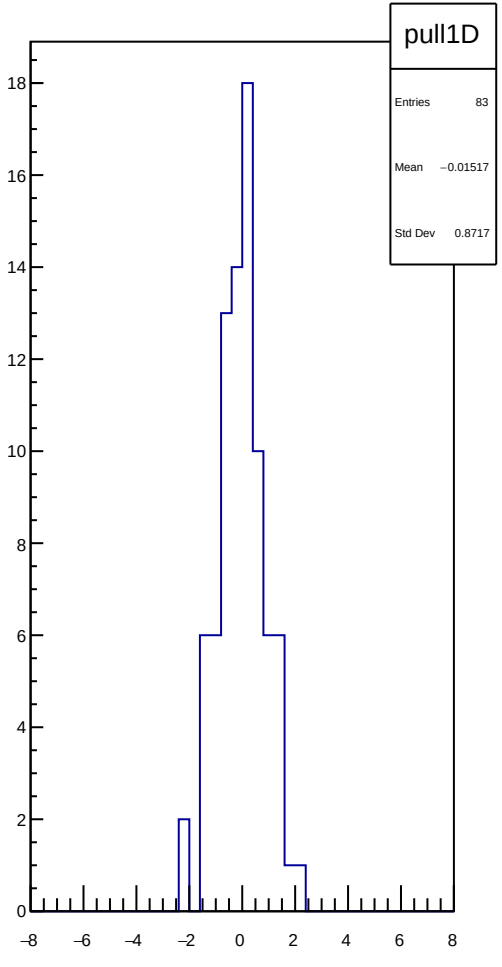

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6474 / 82
p0 257.5 ± 0.2033
300
290
280
270
260
250
240
230
220

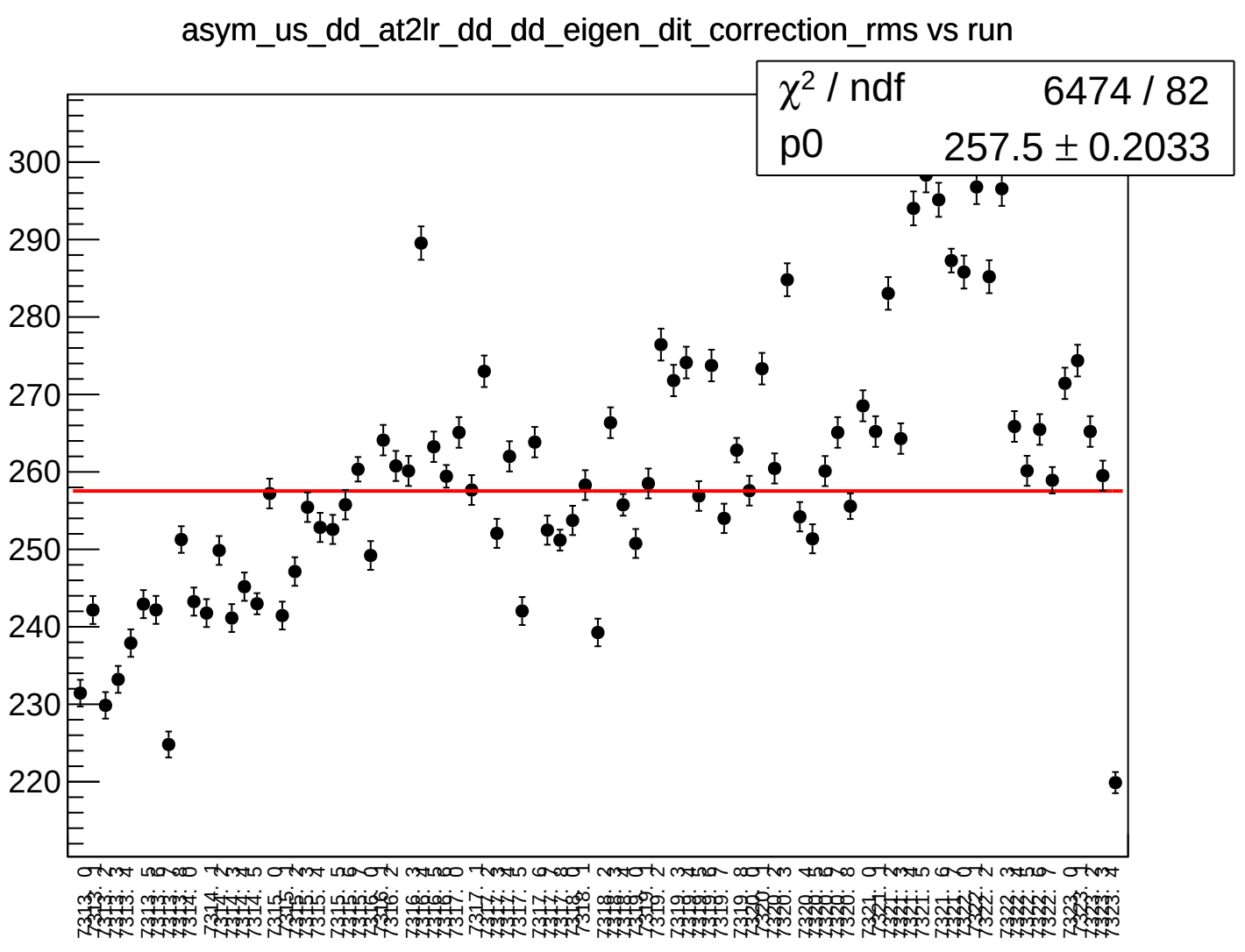

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 80.65 / 82
p0 −1114 ± 1894
pull
Entries 83
Mean 1.707e+04
Std Dev 0

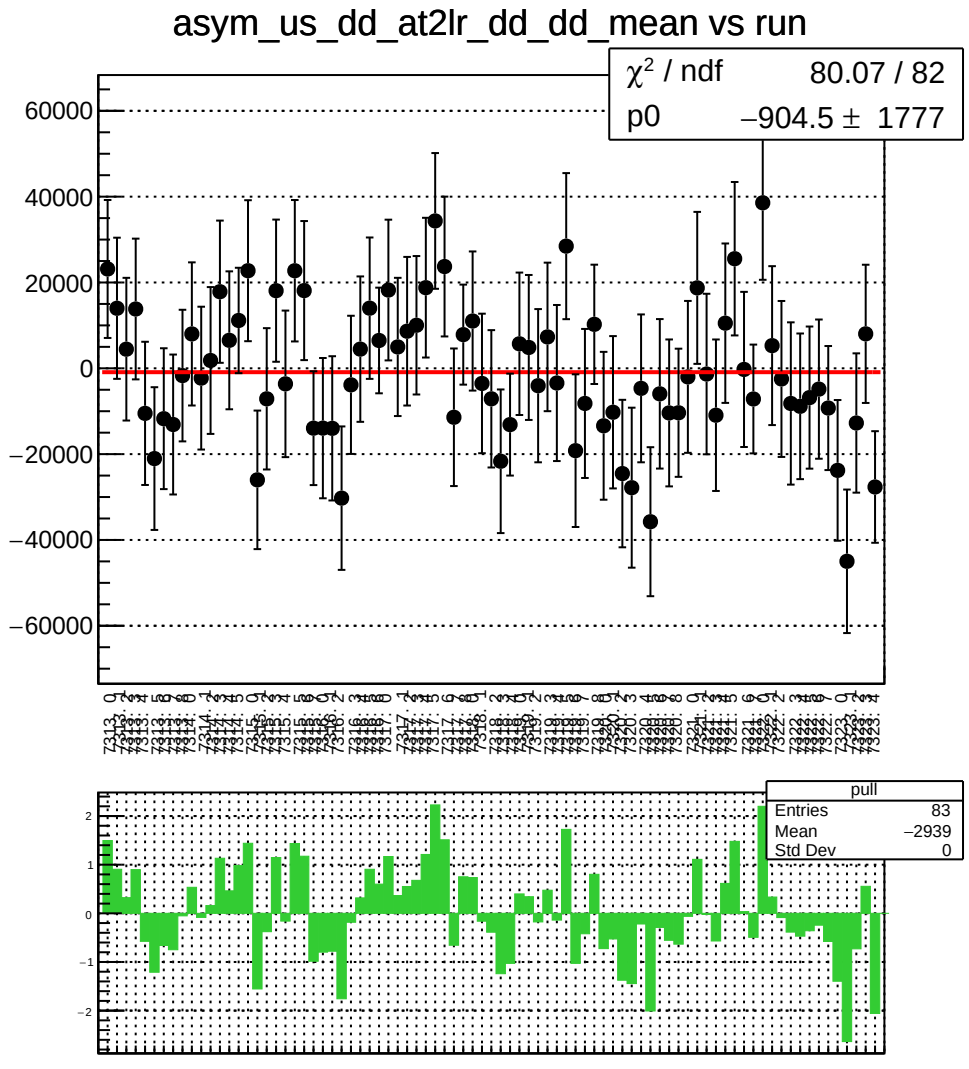

pull1D
Entries 83
Mean −0.0003517
Std Dev 0.9857

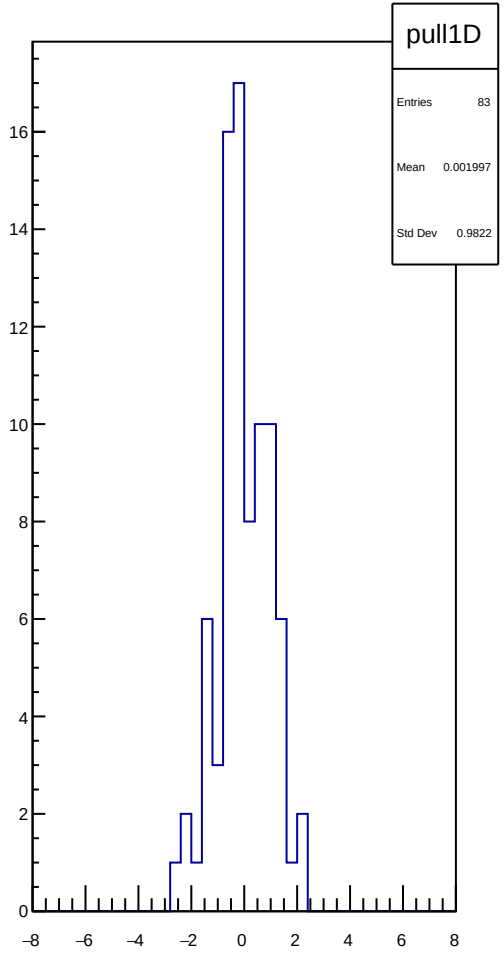

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 4472 / 82
p0 1697 ± 1.339
2000
1900
1800
1700
1600
1500

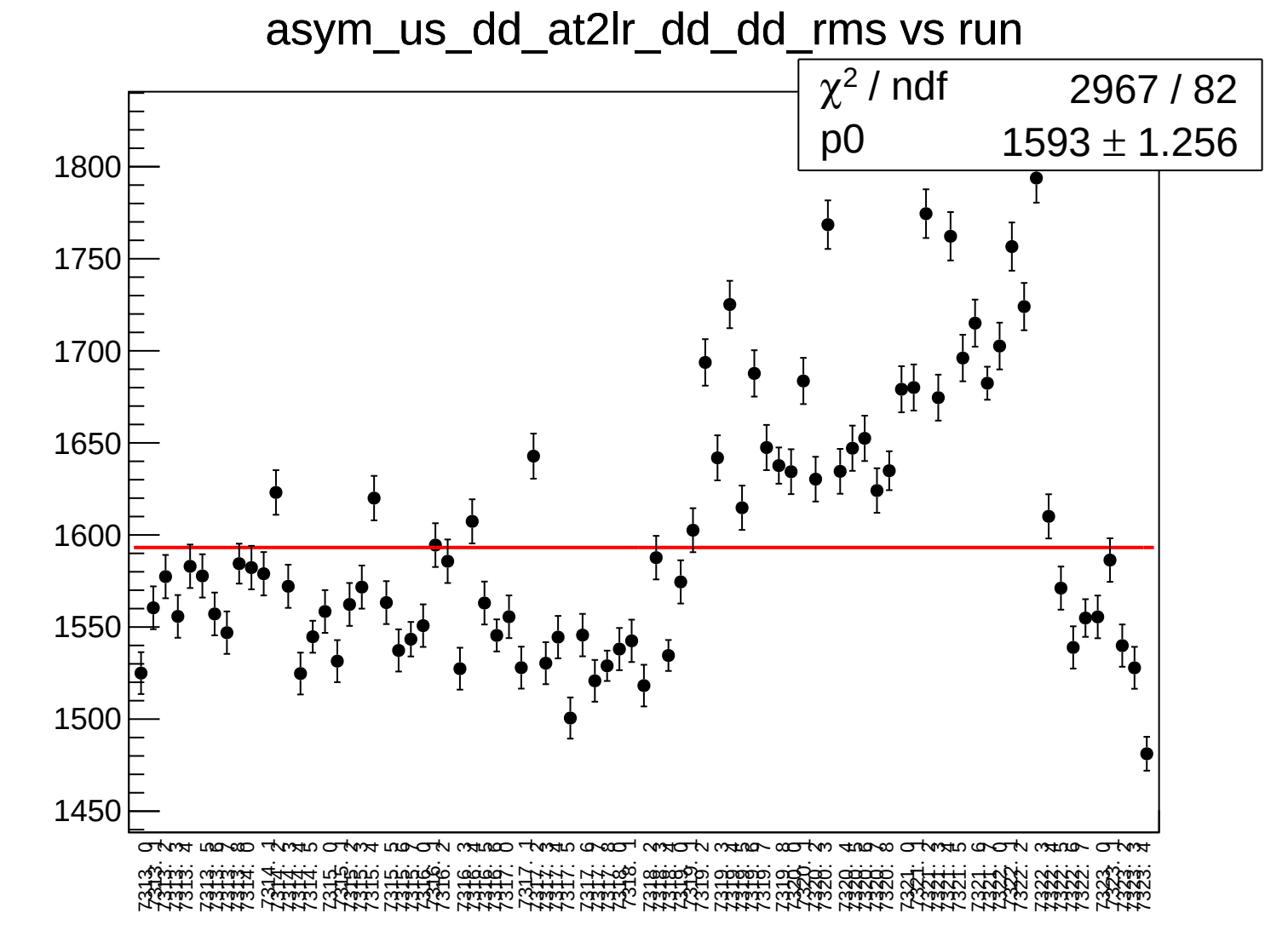

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 63.08 / 82
p0 −206.9 ± 287.5
pull
Entries 83
Mean 195.1
Std Dev 0

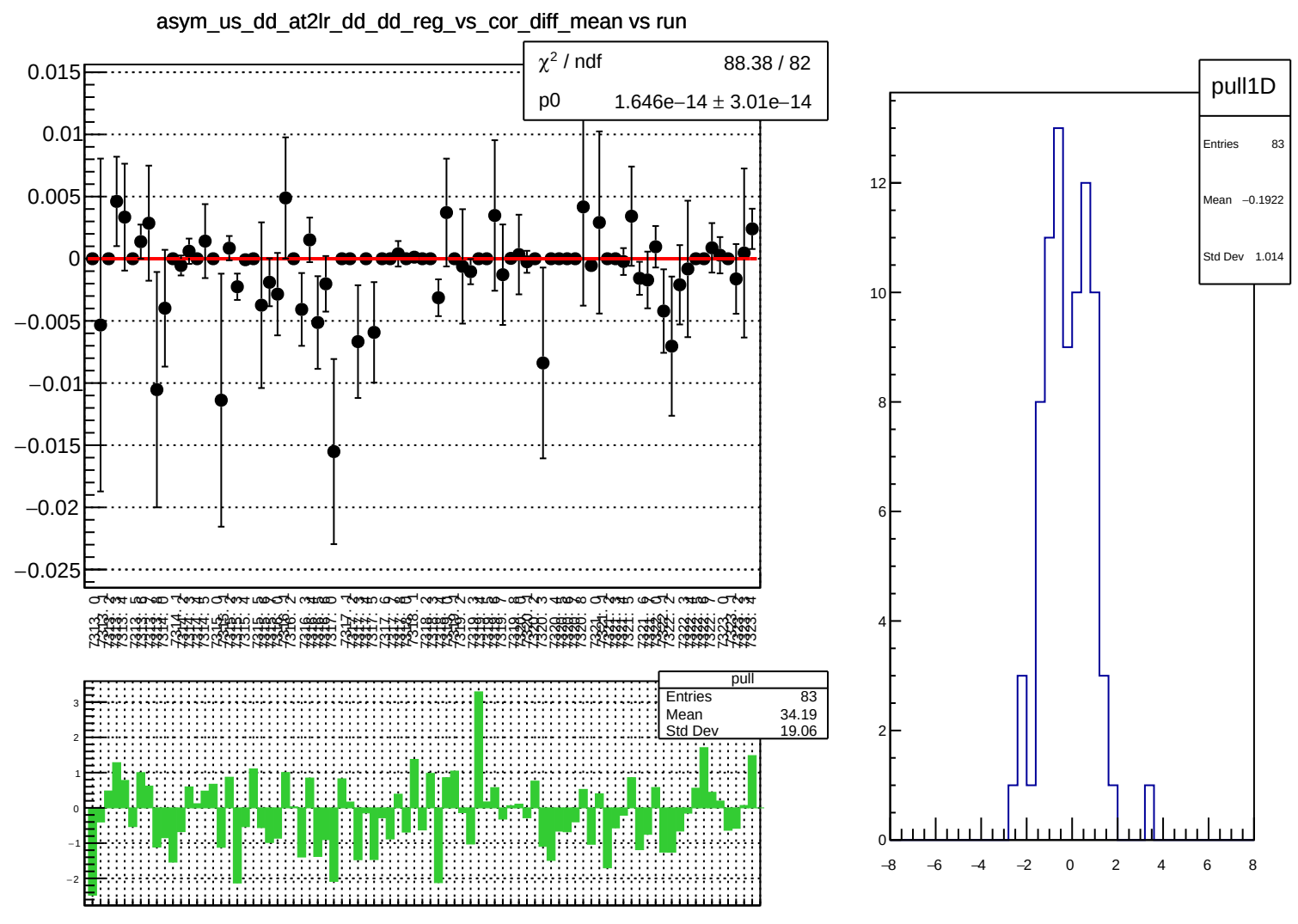

pull1D
Entries 83
Mean −0.01517
Std Dev 0.8717

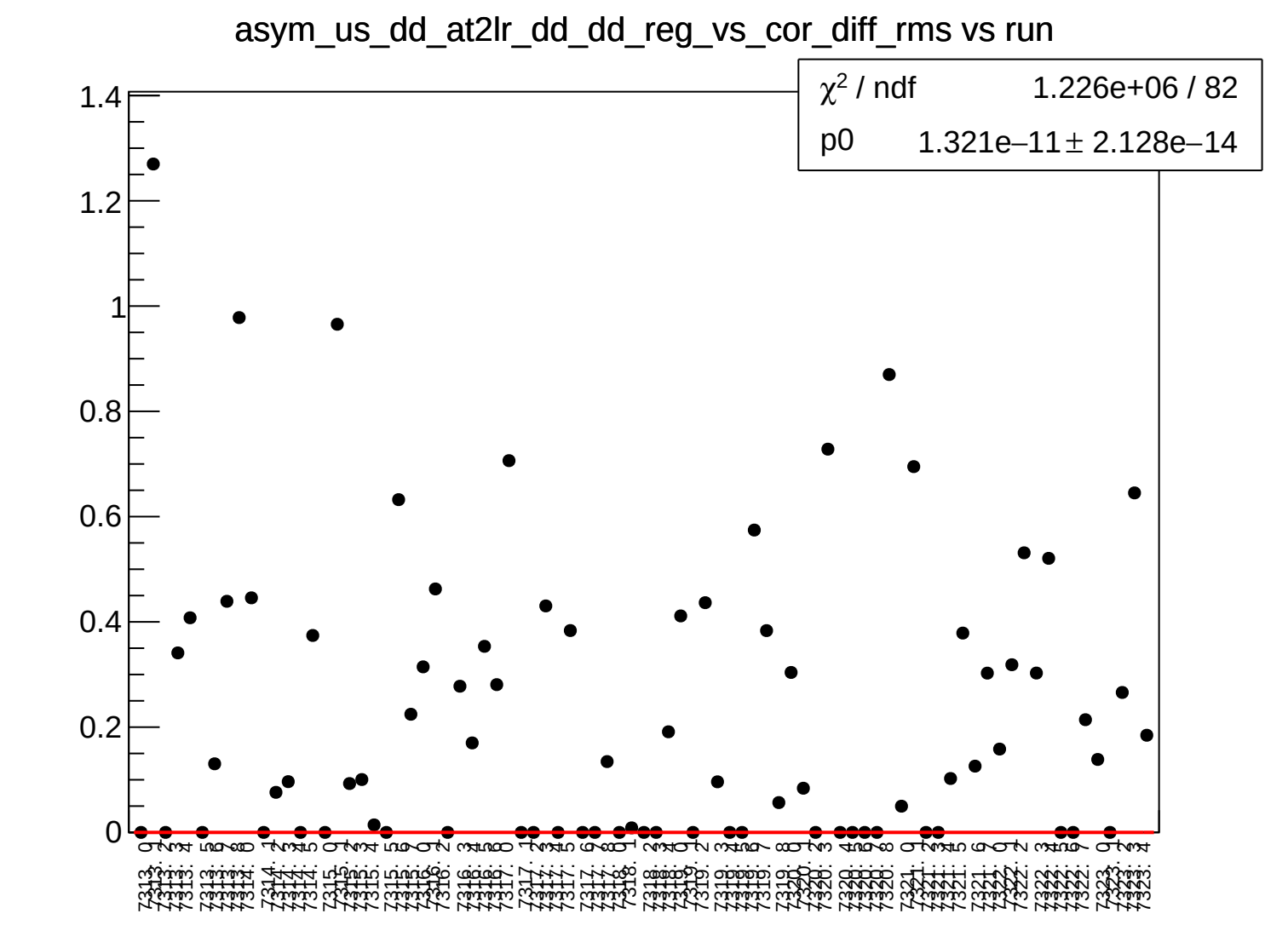

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6474 / 82
p0 257.5 ± 0.2033
300
290
280
270
260
250
240
230
220

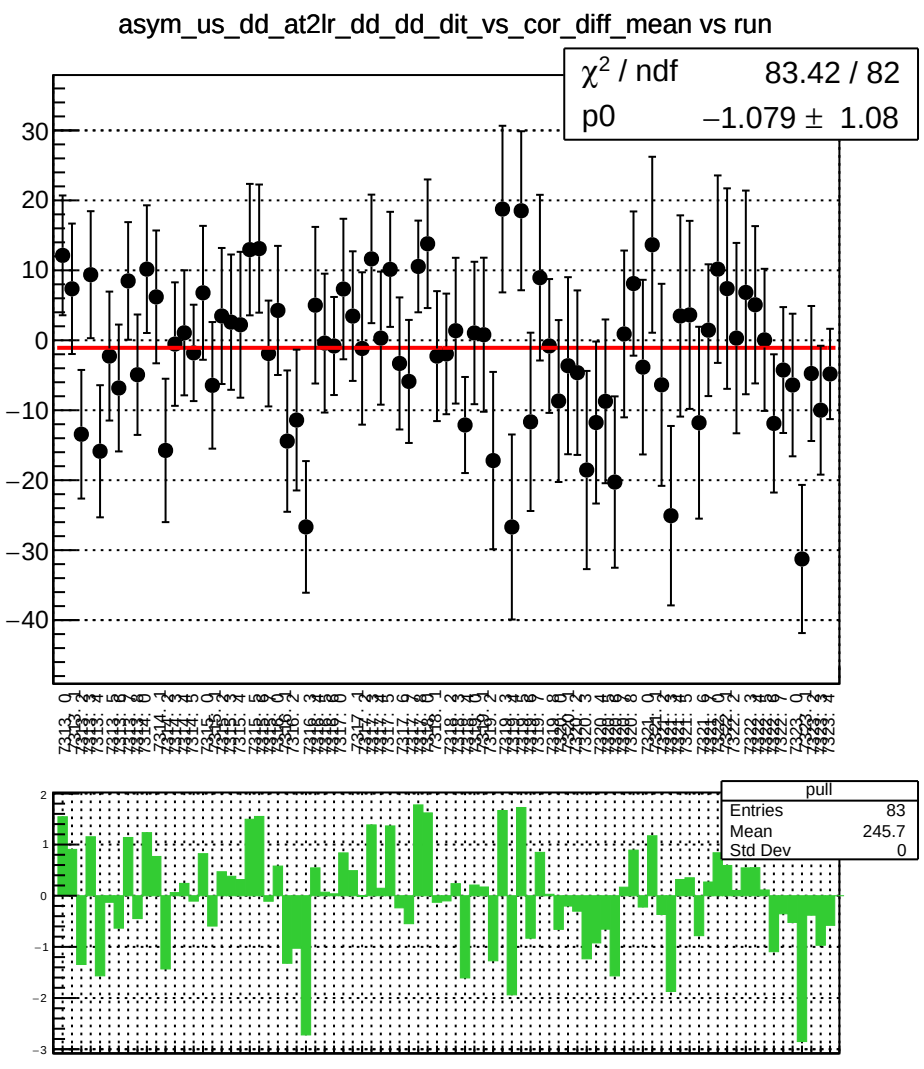

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 80.07 / 82
p0 −904.5 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −2939
Std Dev 0
2
1
0
−1
−2

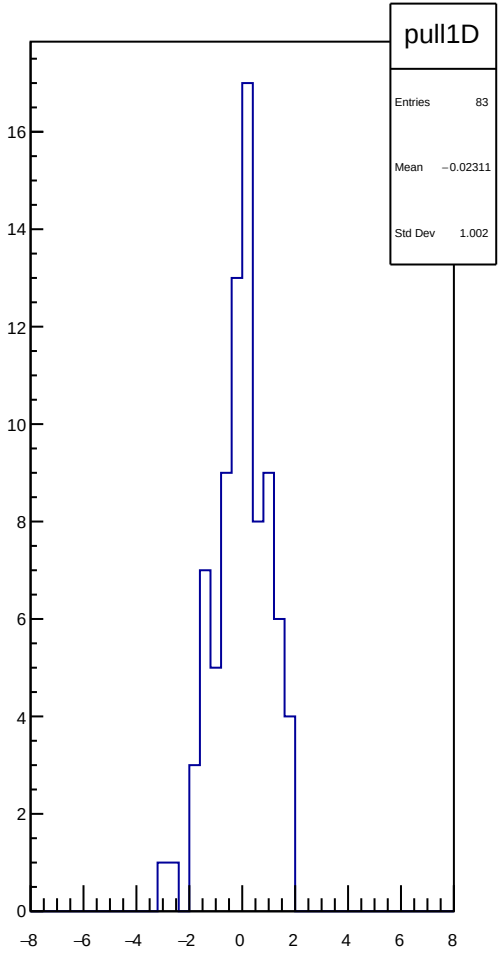

pull1D
Entries 83
Mean 0.001997
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

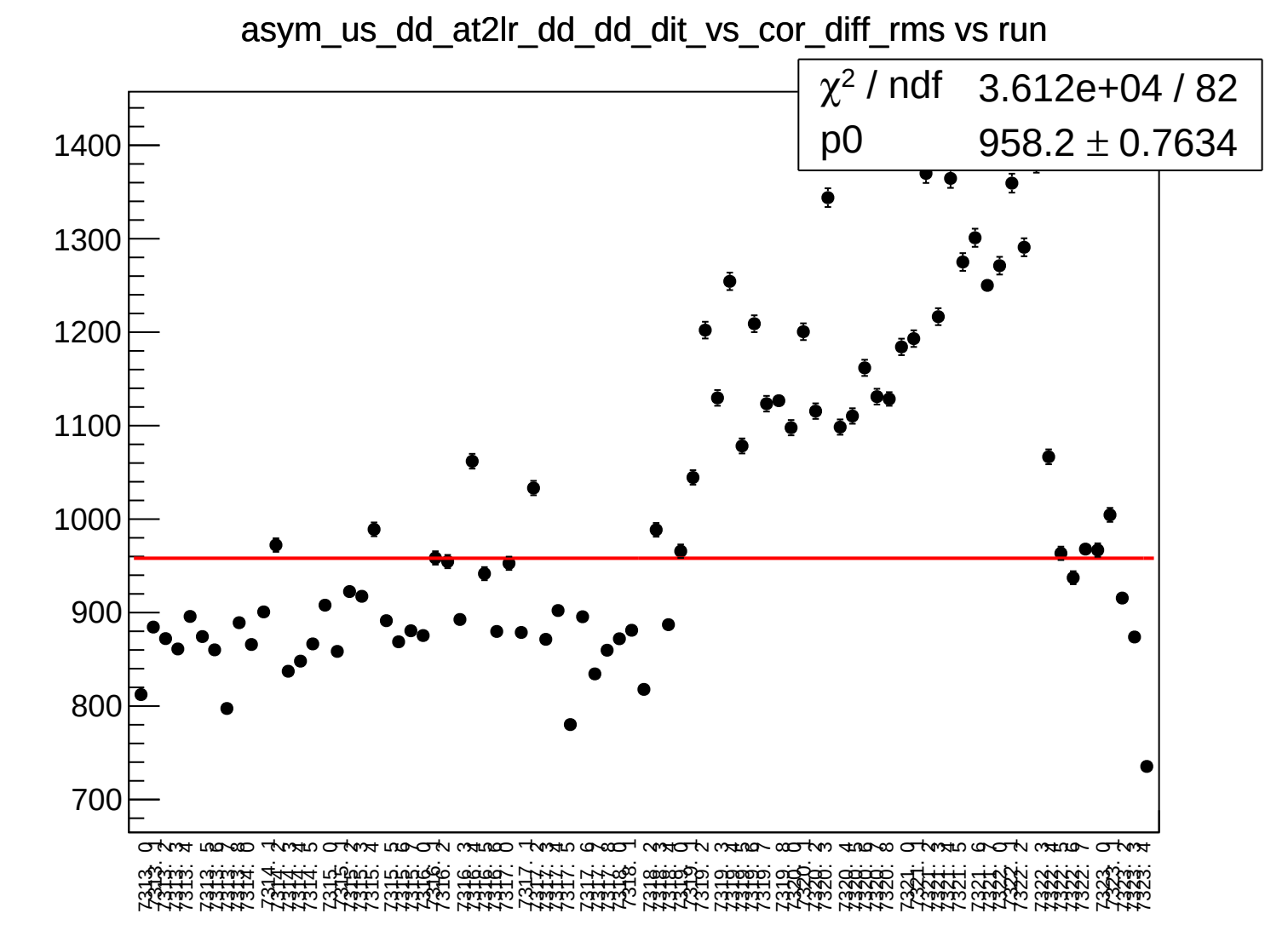

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2967 / 82
p0 1593 ± 1.256
1800
1750
1700
1650
1600
1550
1500
1450

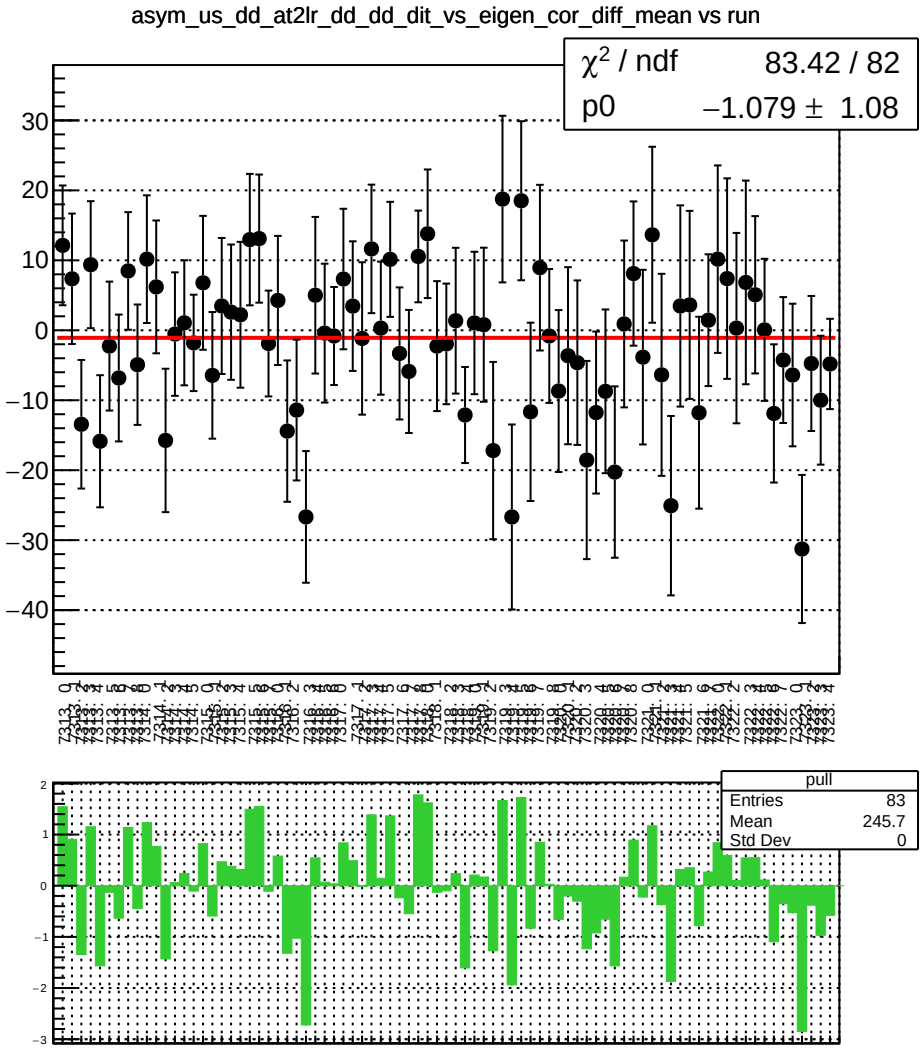

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 82
p0 1.646e−14 ± 3.01e−14
pull
Entries 83
Mean 34.19
Std Dev 19.06
pull1D
Entries 83
Mean −0.1922
Std Dev 1.014

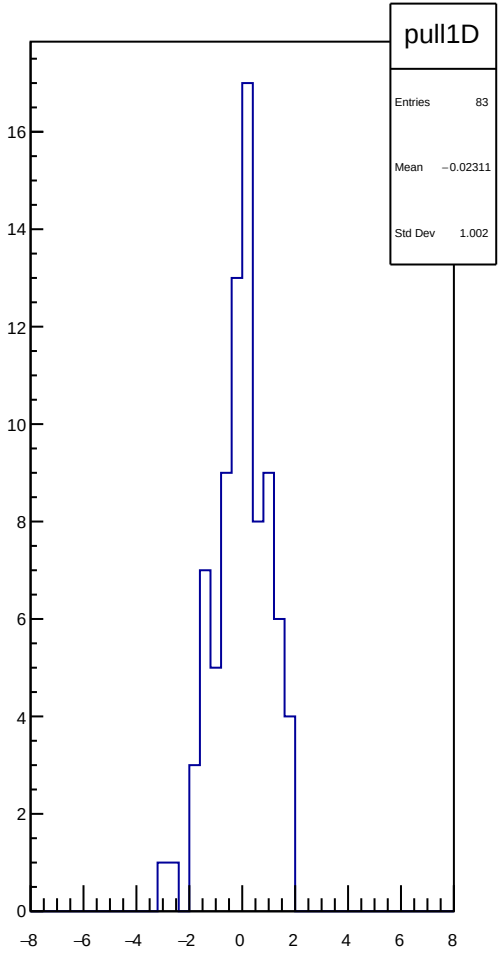

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.226e+06 / 82
p0 1.321e−11 ± 2.128e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

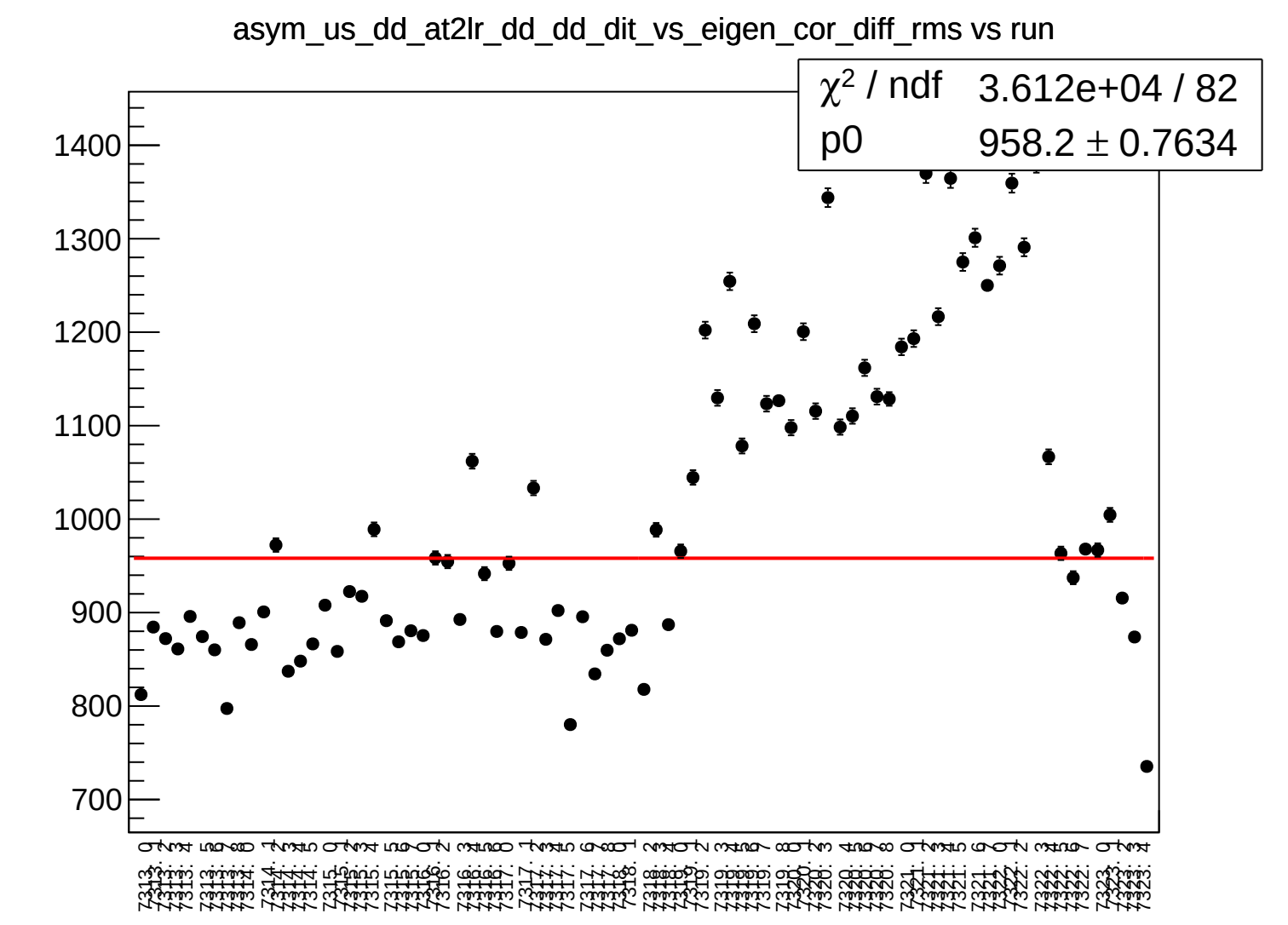

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.42 / 82
p0 −1.079 ± 1.08
pull
Entries 83
Mean 245.7
Std Dev 0

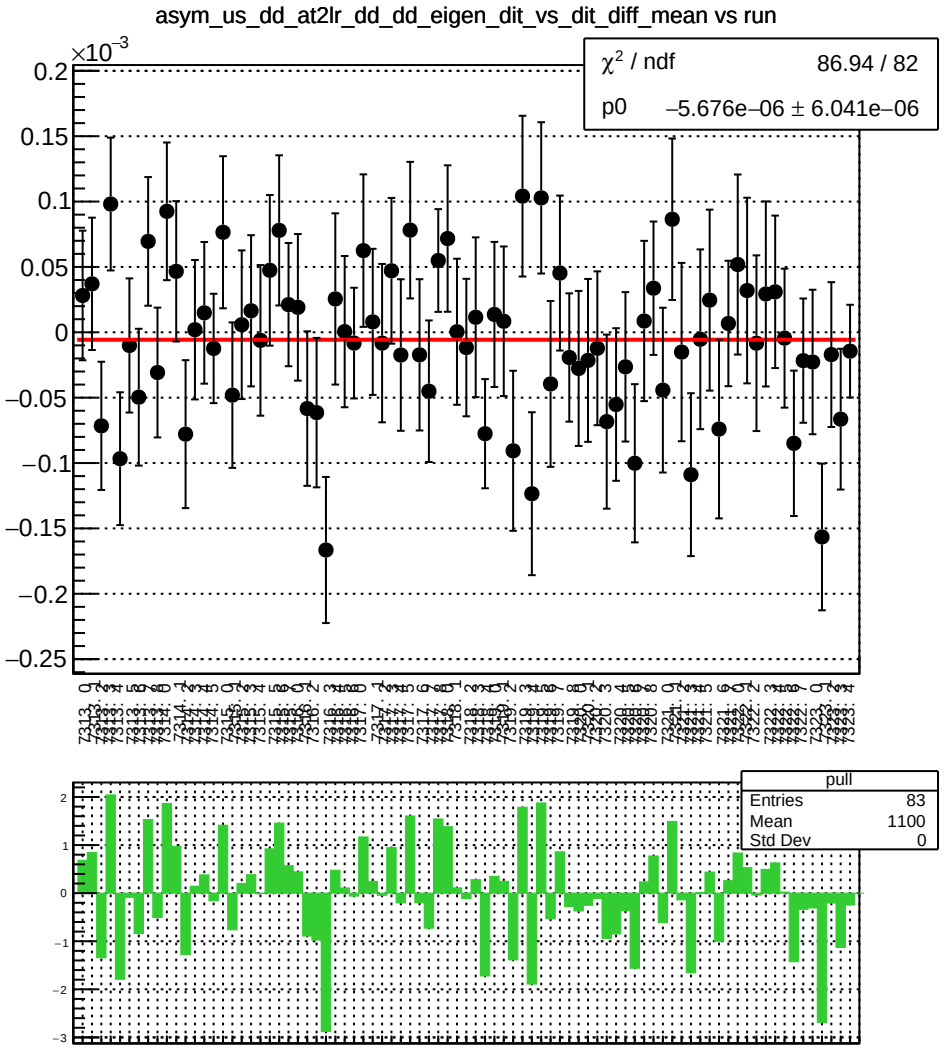

pull1D
Entries 83
Mean −0.02311
Std Dev 1.002

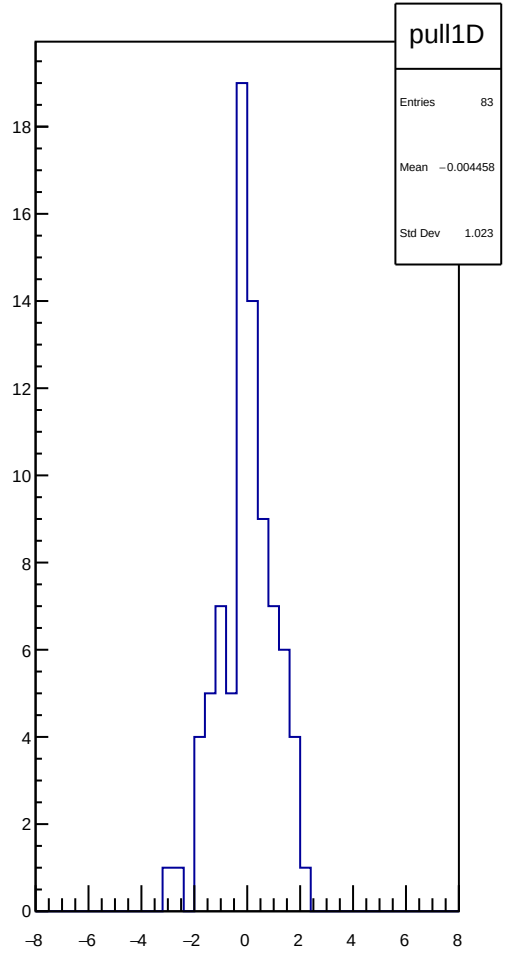

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 82
p0 958.2 ± 0.7634
1400
1300
1200
1100
1000
900
800
700

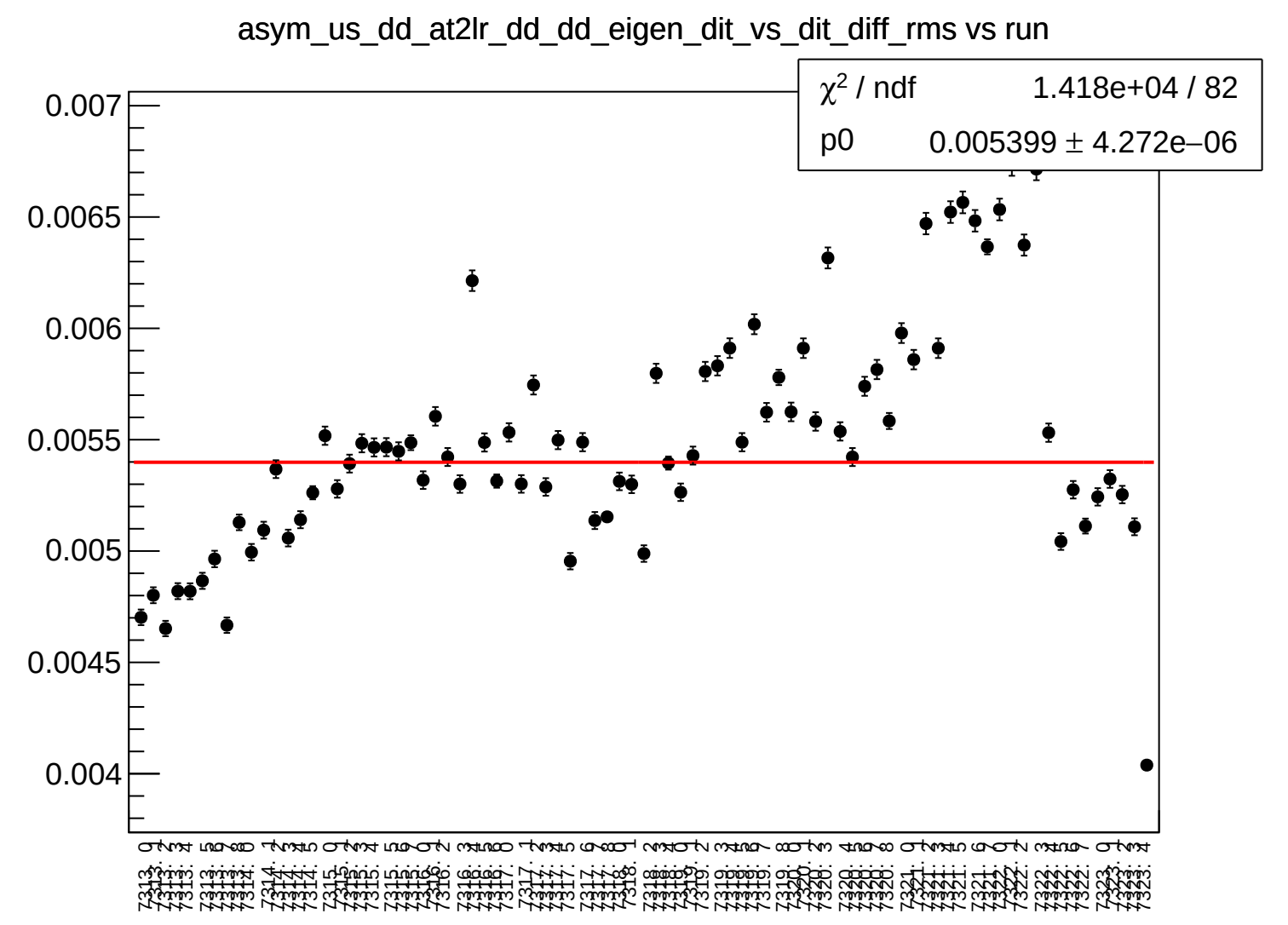

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.42 / 82
p0 −1.079 ± 1.08
pull
Entries 83
Mean 245.7
Std Dev 0

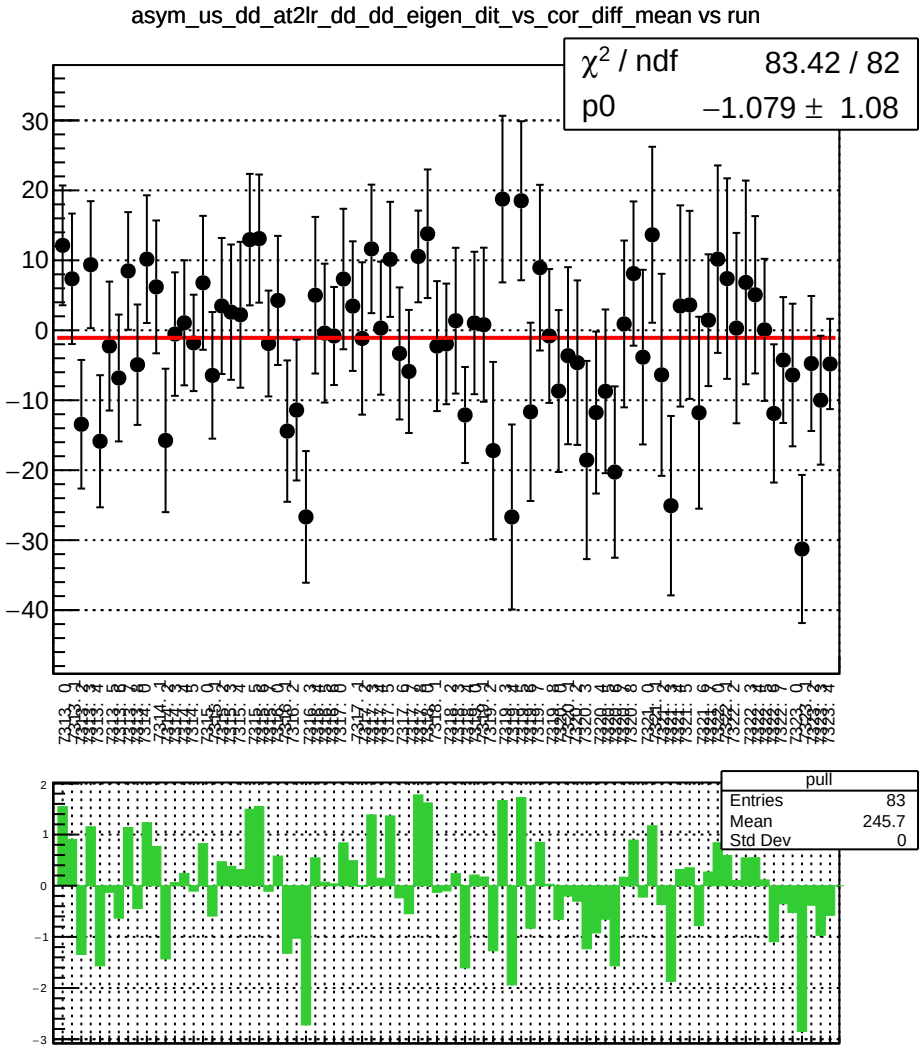

pull1D
Entries 83
Mean −0.02311
Std Dev 1.002

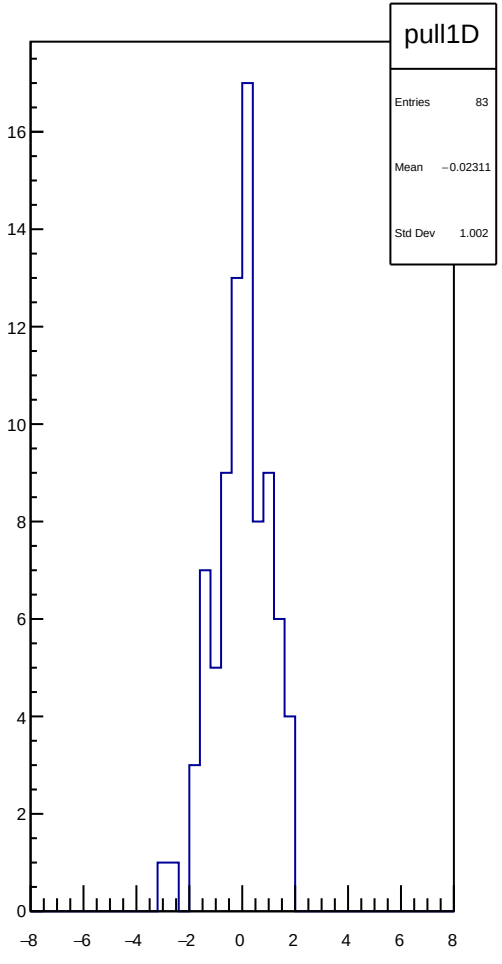

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 82
p0 958.2 ± 0.7634
1400
1300
1200
1100
1000
900
800
700

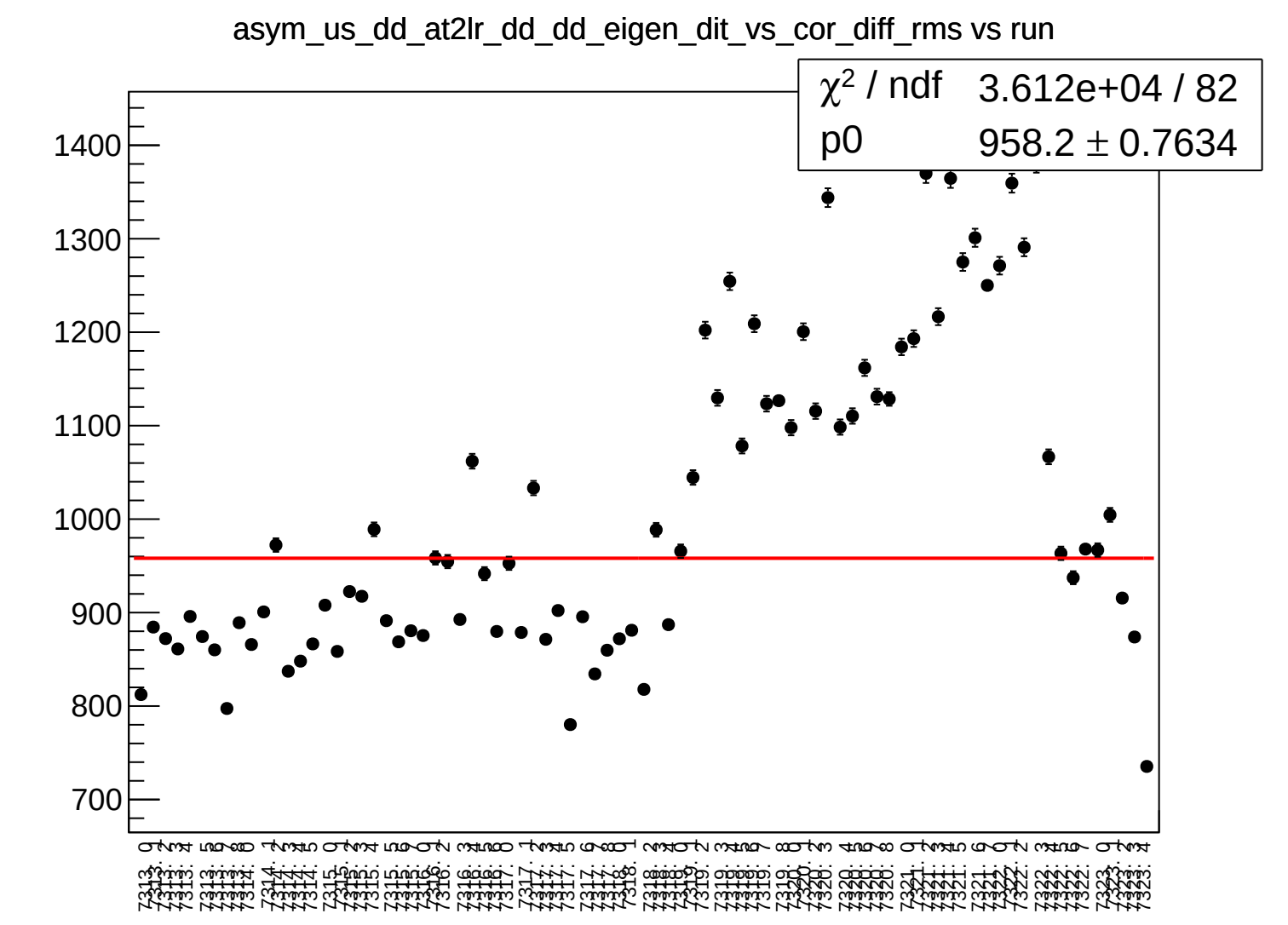

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.94 / 82
p0 −5.676e−06 ± 6.041e−06
pull
Entries 83
Mean 1100
Std Dev 0

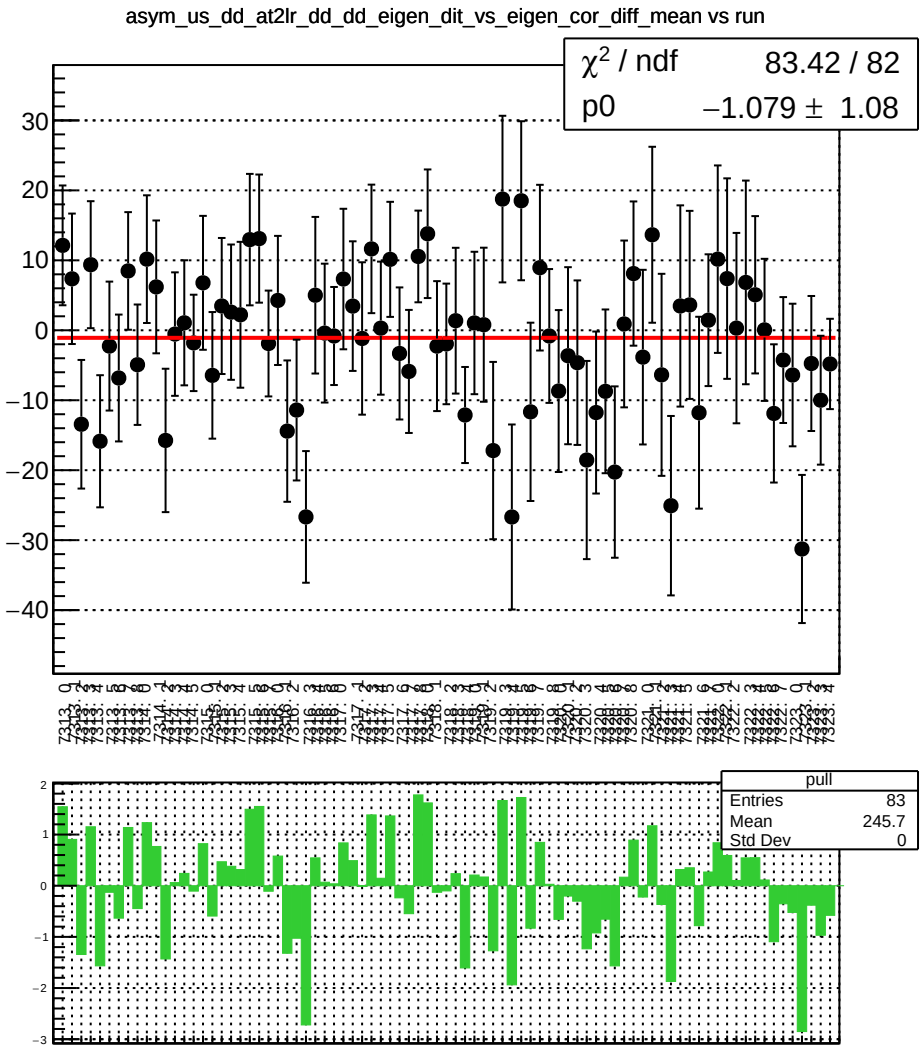

pull1D
Entries 83
Mean −0.004458
Std Dev 1.023

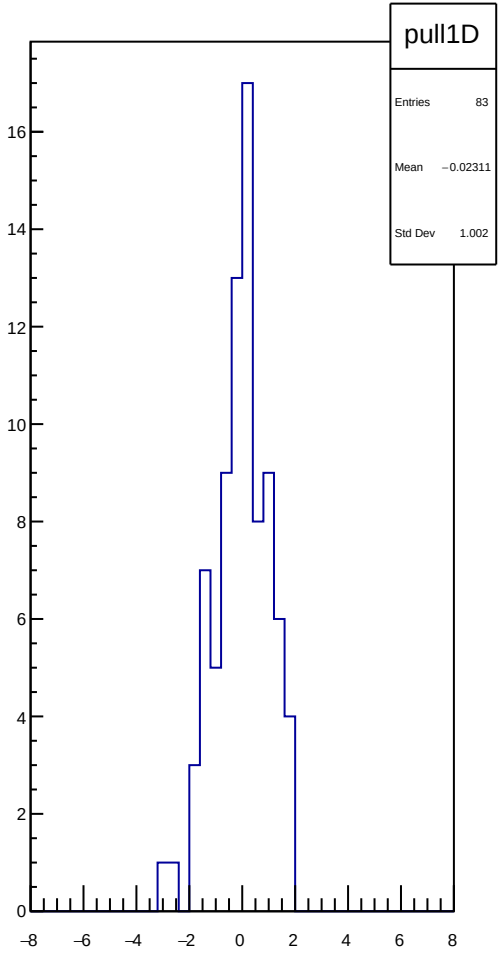

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.418e+04 / 82
p0 0.005399 ± 4.272e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

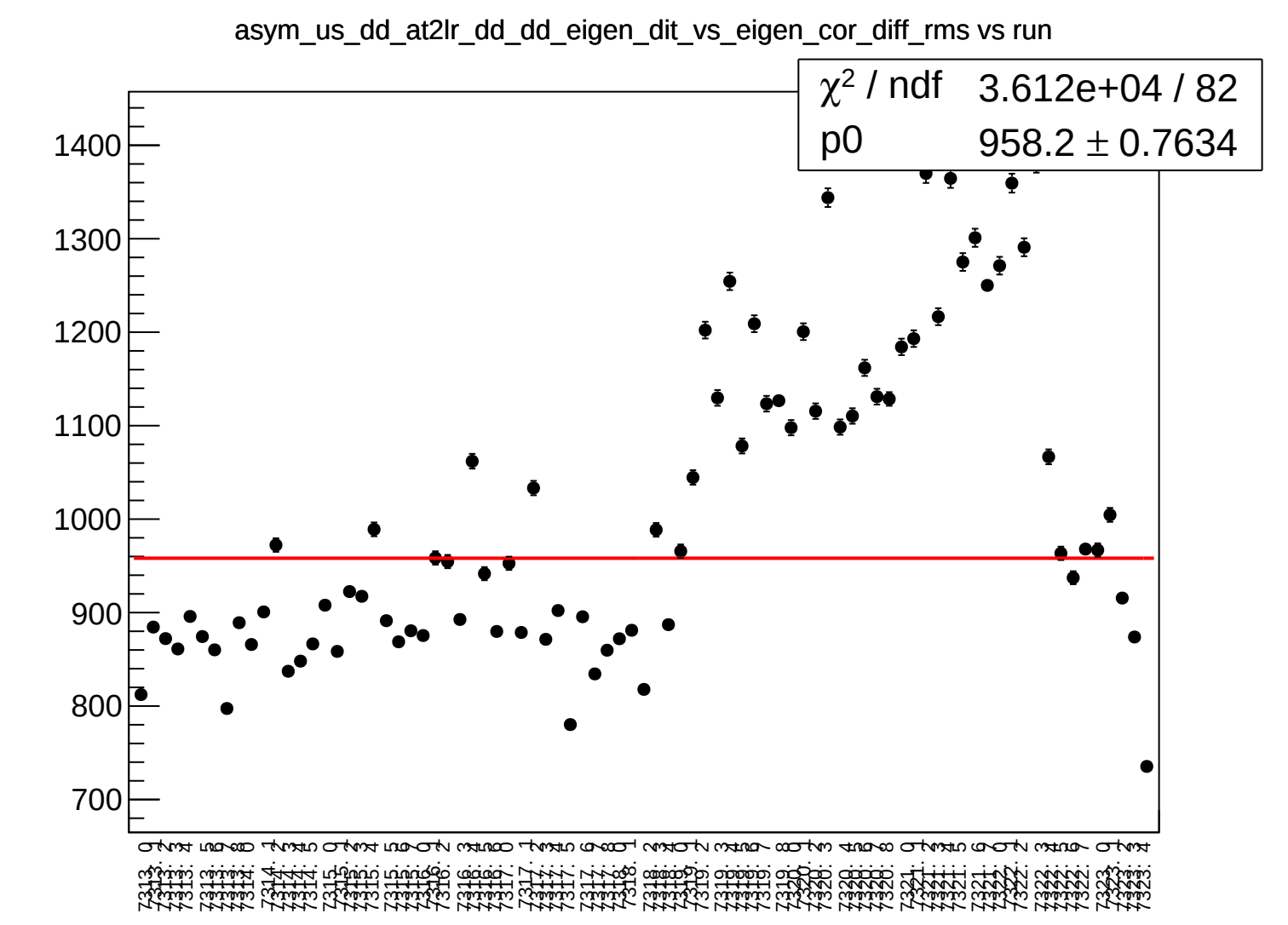

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.42 / 82
p0 −1.079 ± 1.08
pull
Entries 83
Mean 245.7
Std Dev 0

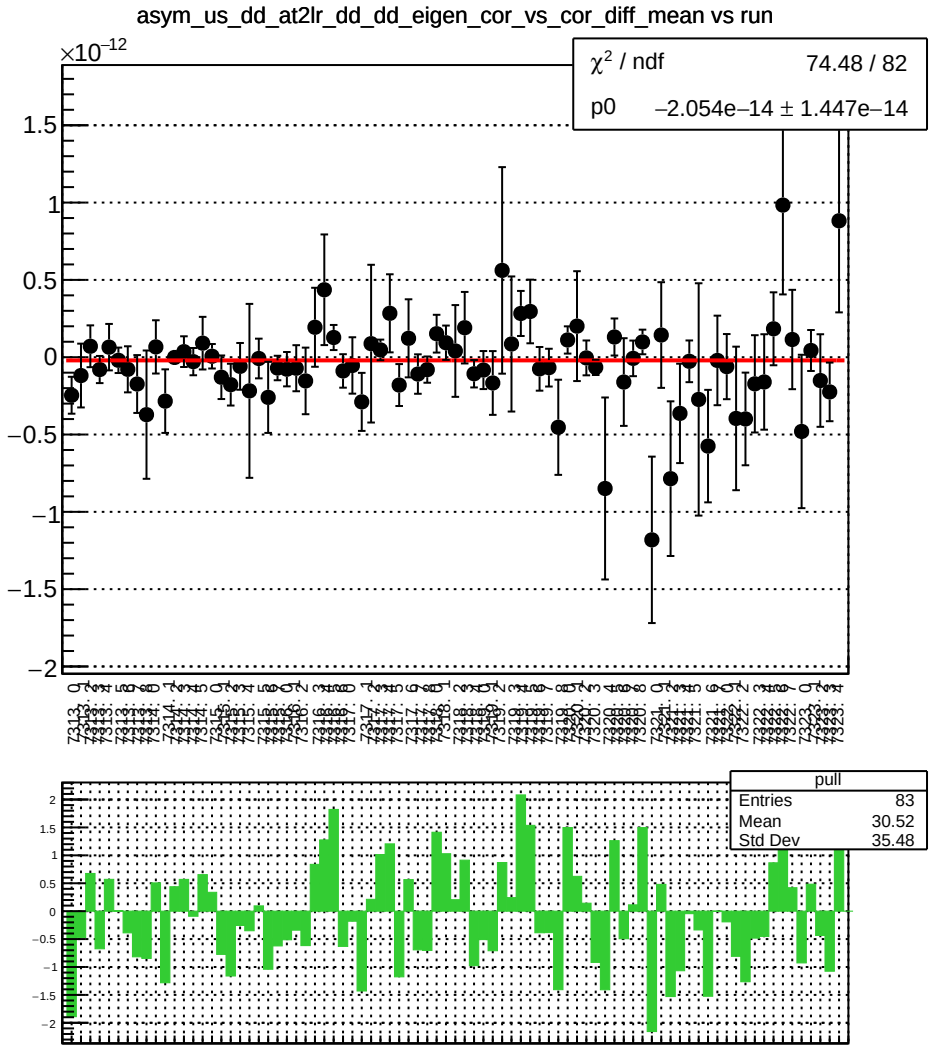

pull1D
Entries 83
Mean −0.02311
Std Dev 1.002

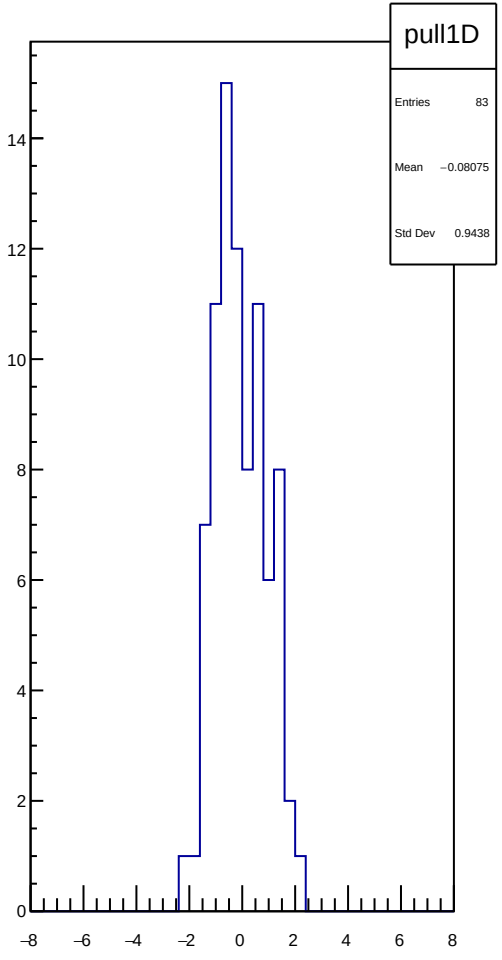

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 82
p0 958.2 ± 0.7634
1400
1300
1200
1100
1000
900
800
700

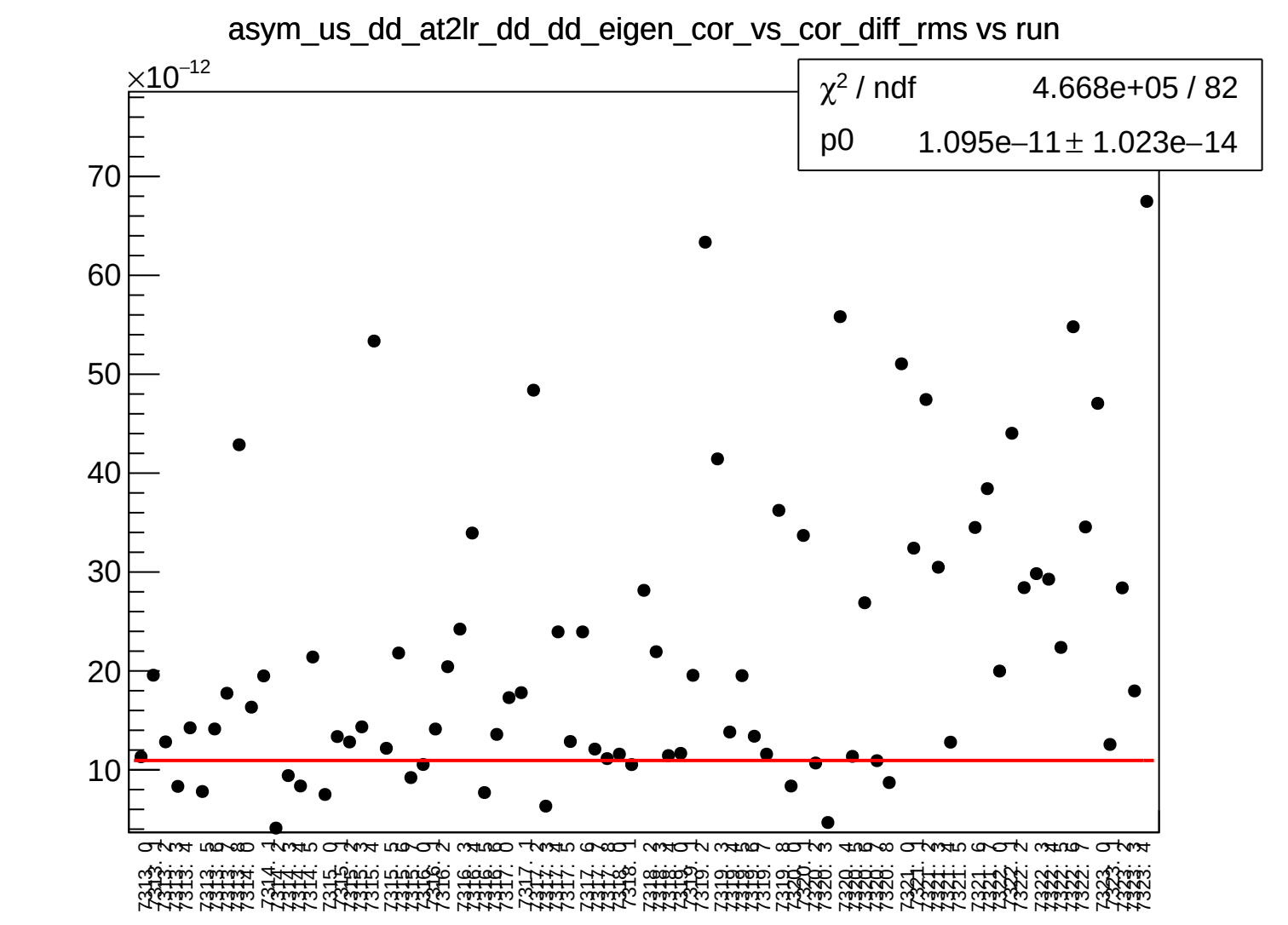

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.42 / 82
p0 −1.079 ± 1.08
pull
Entries 83
Mean 245.7
Std Dev 0

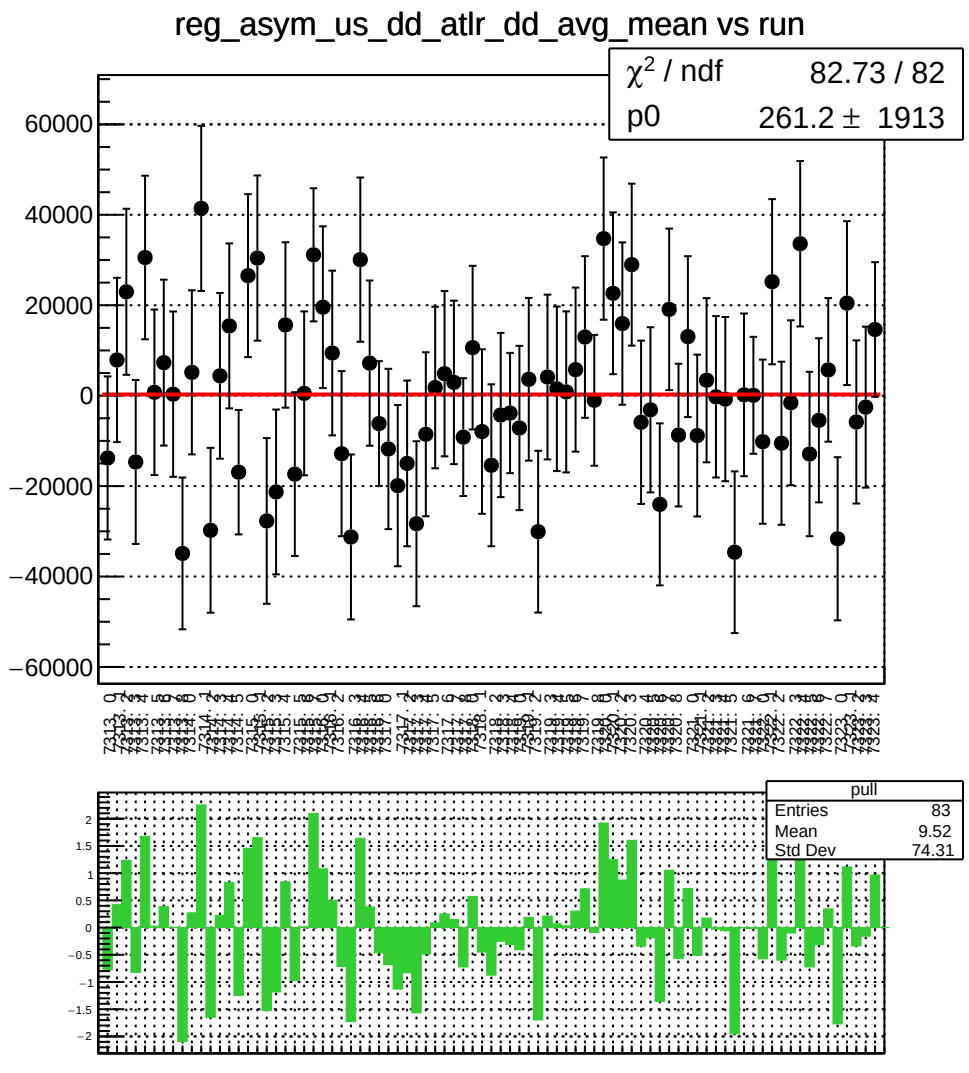

pull1D
Entries 83
Mean −0.02311
Std Dev 1.002

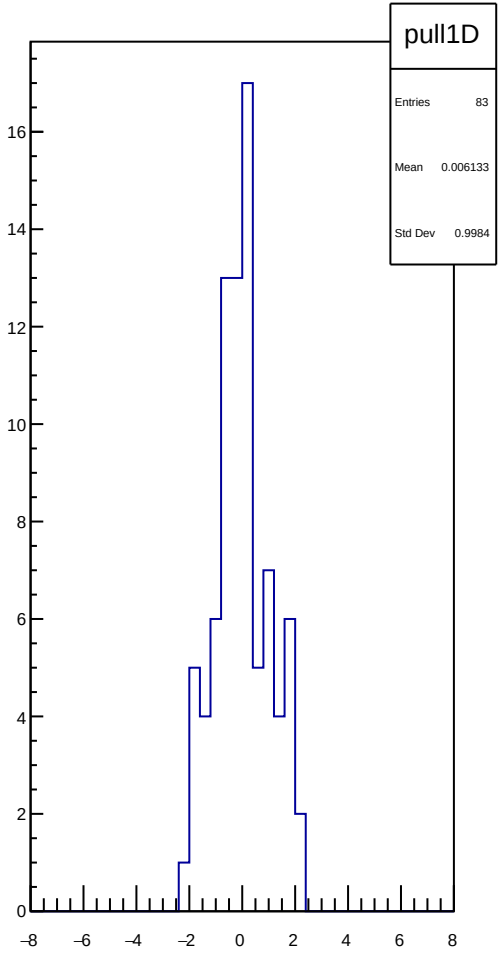

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 82
p0 958.2 ± 0.7634
1400
1300
1200
1100
1000
900
800
700

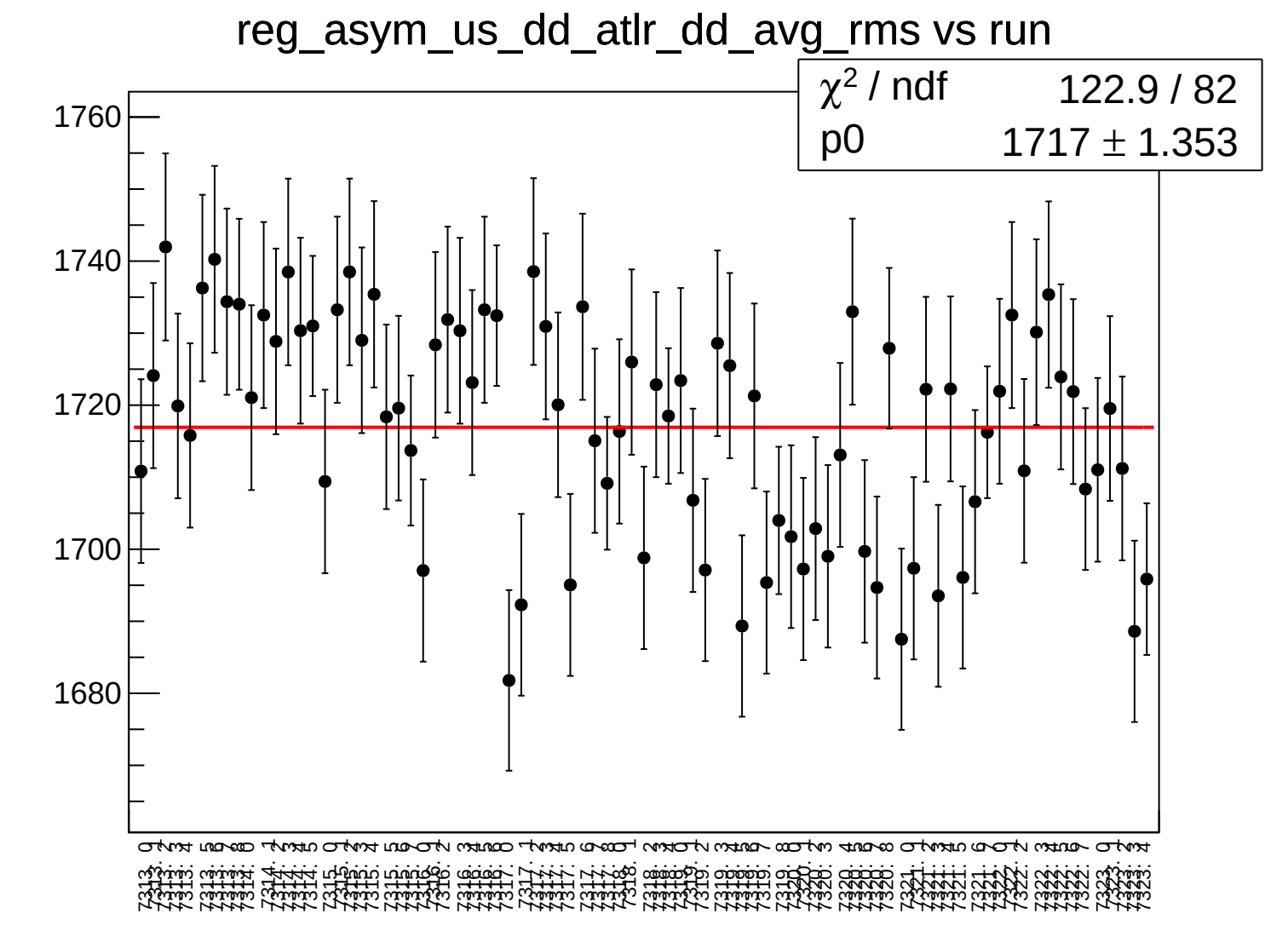

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.48 / 82
p0 −2.054e−14 ± 1.447e−14
pull
Entries 83
Mean 30.52
Std Dev 35.48

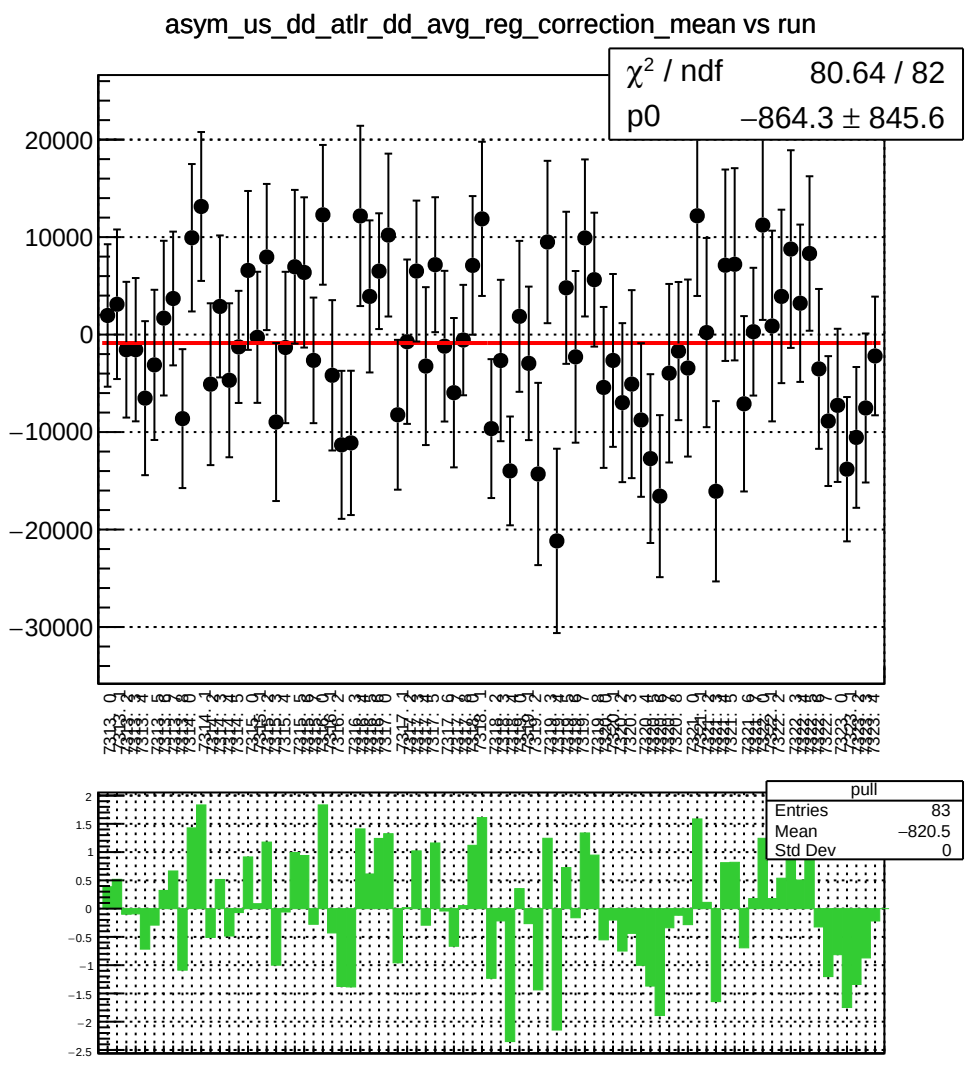

pull1D
Entries 83
Mean −0.08075
Std Dev 0.9438

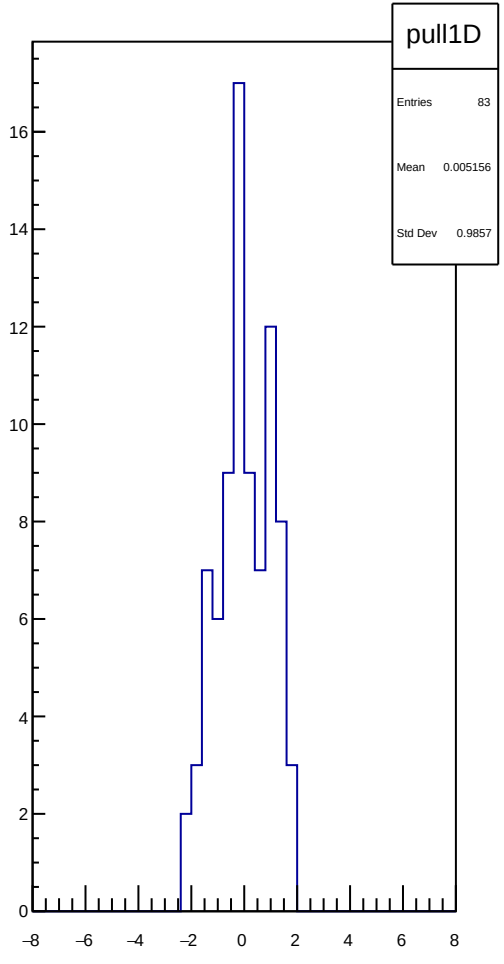

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.668e+05 / 82
p0 1.095e−11 ± 1.023e−14
70
60
50
40
30
20
10

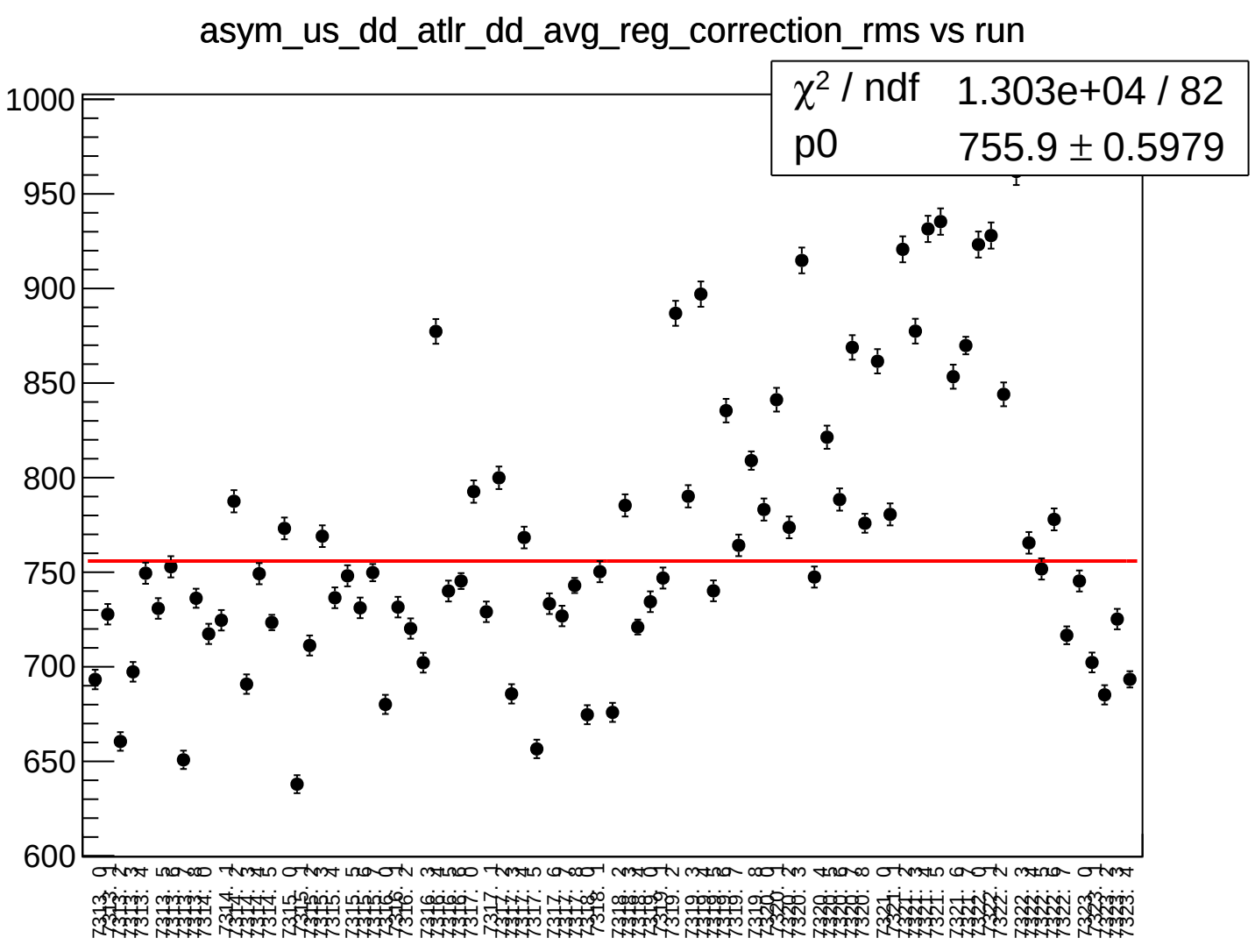

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 82.73 / 82
p0 261.2 ± 1913
pull
Entries 83
Mean 9.52
Std Dev 74.31

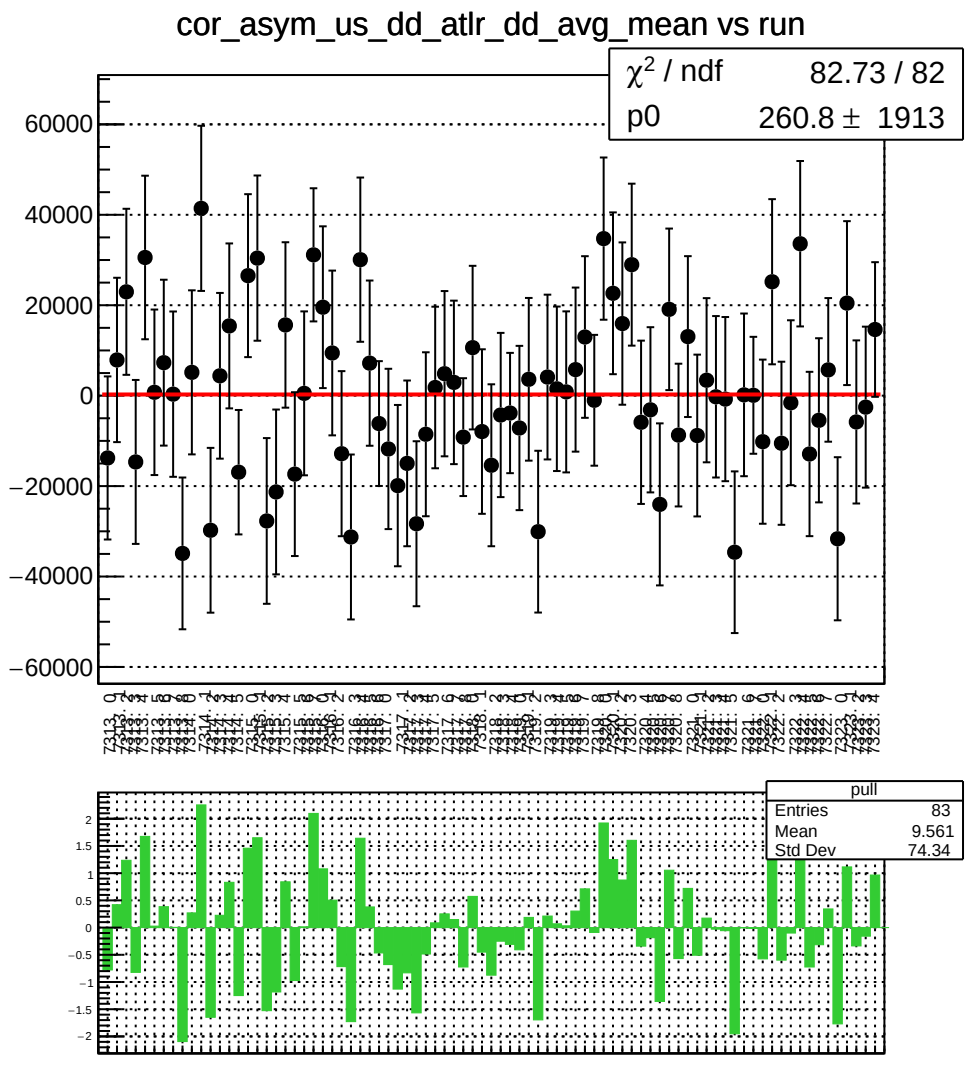

pull1D
Entries 83
Mean 0.006133
Std Dev 0.9984

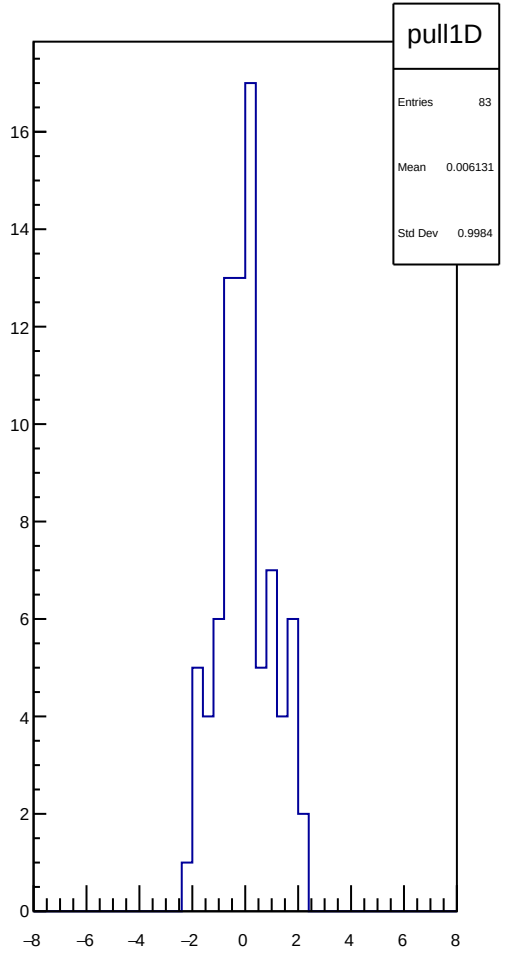

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 122.9 / 82
p0 1717 ± 1.353
1760
1740
1720
1700
1680

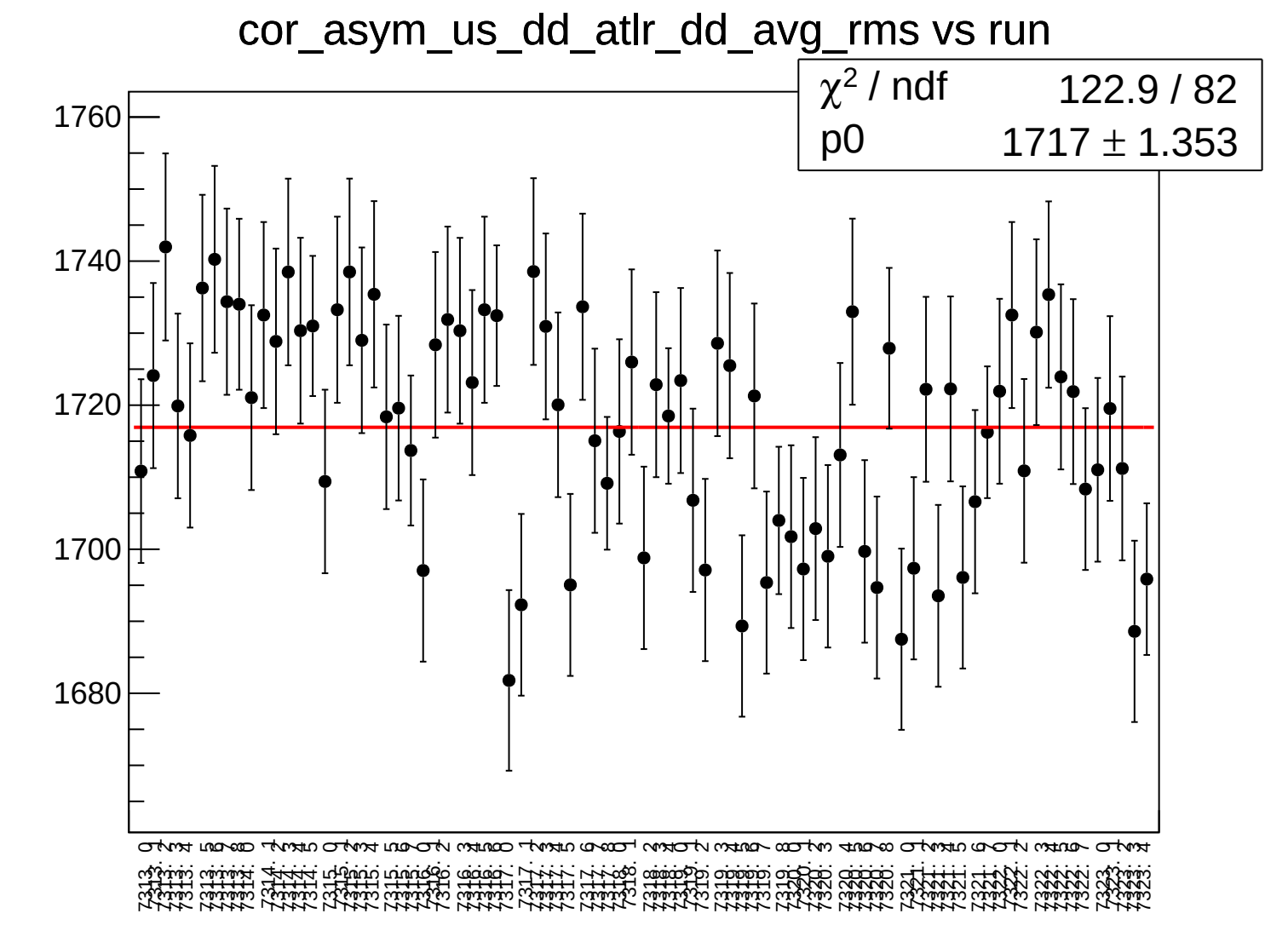

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 80.64 / 82
p0 −864.3 ± 845.6
pull
Entries 83
Mean −820.5
Std Dev 0

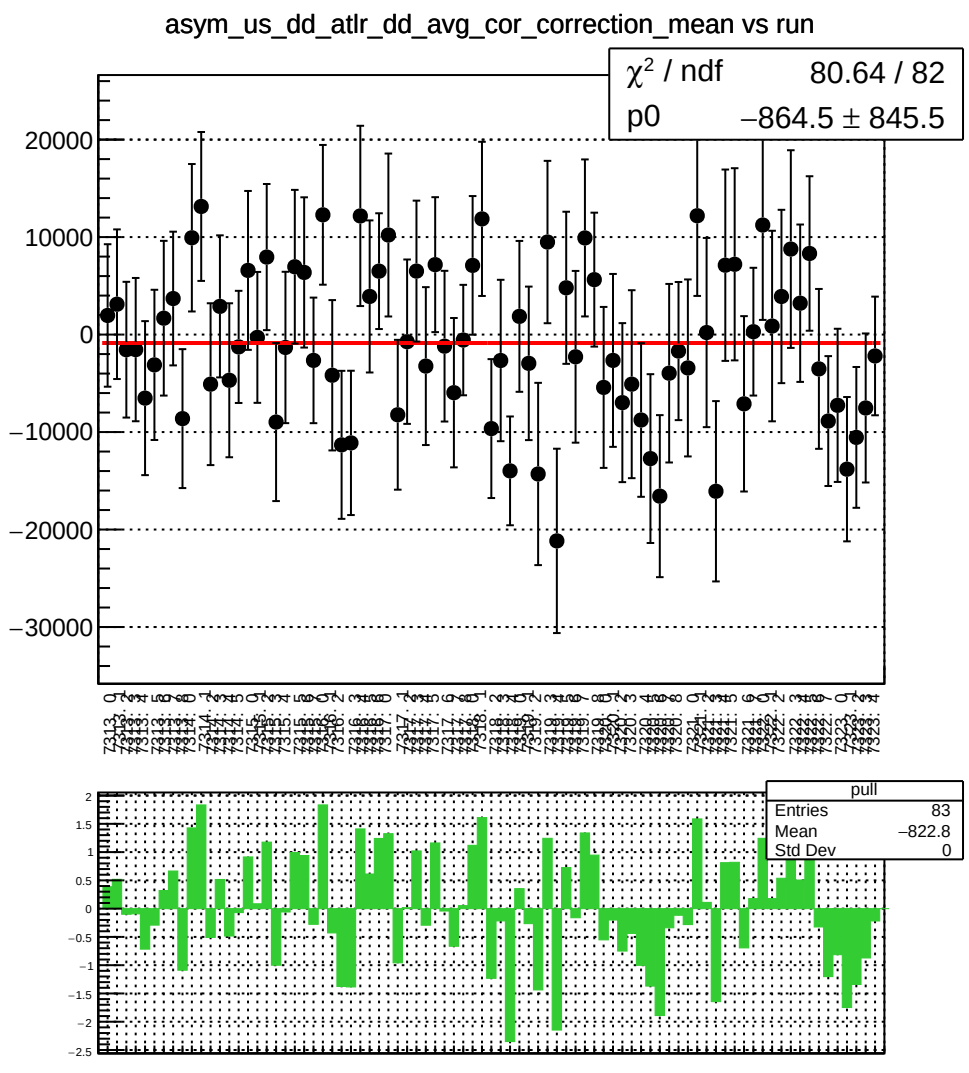

pull1D
Entries 83
Mean 0.005156
Std Dev 0.9857

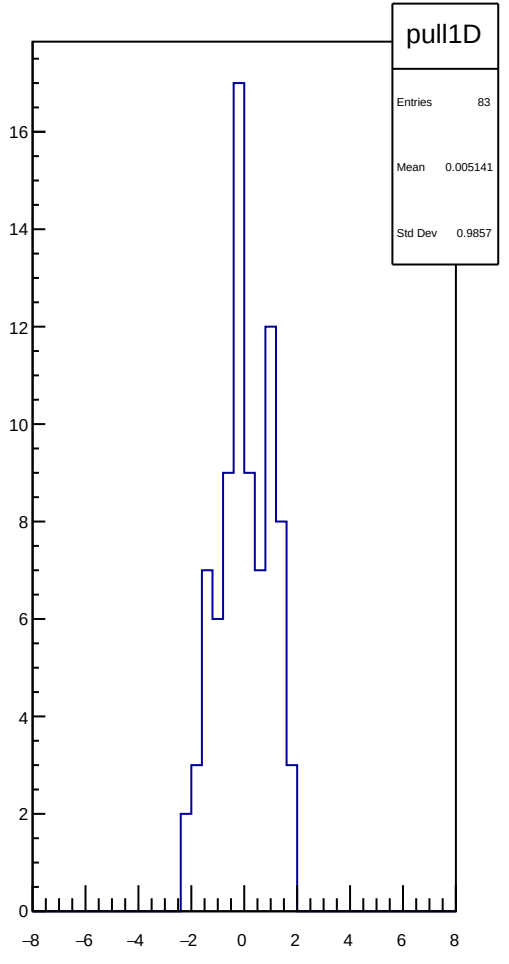

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.303e+04 / 82
p0 755.9 ± 0.5979
1000
950
900
850
800
750
700
650
600

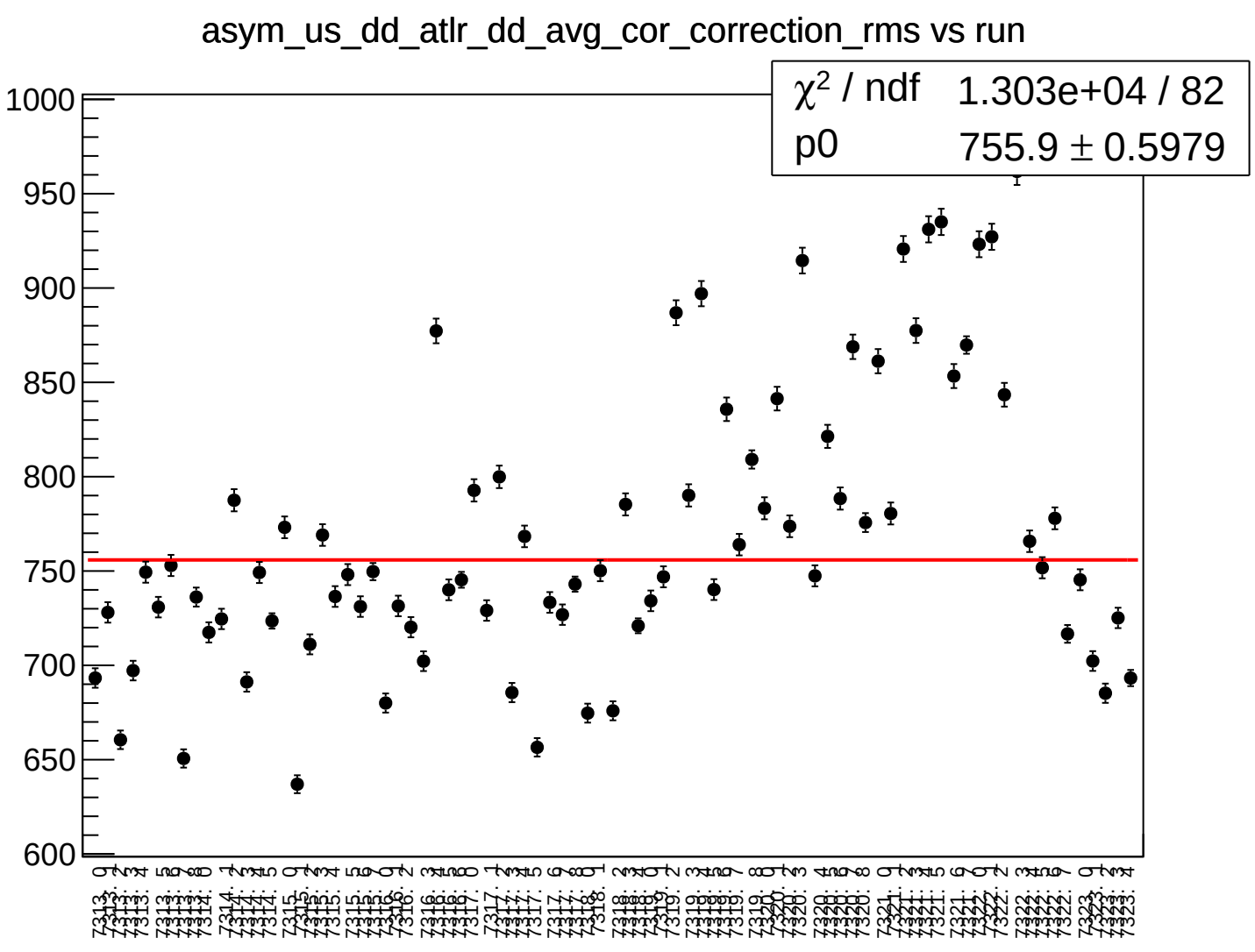

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 82.73 / 82
p0 260.8 ± 1913
pull
Entries 83
Mean 9.561
Std Dev 74.34

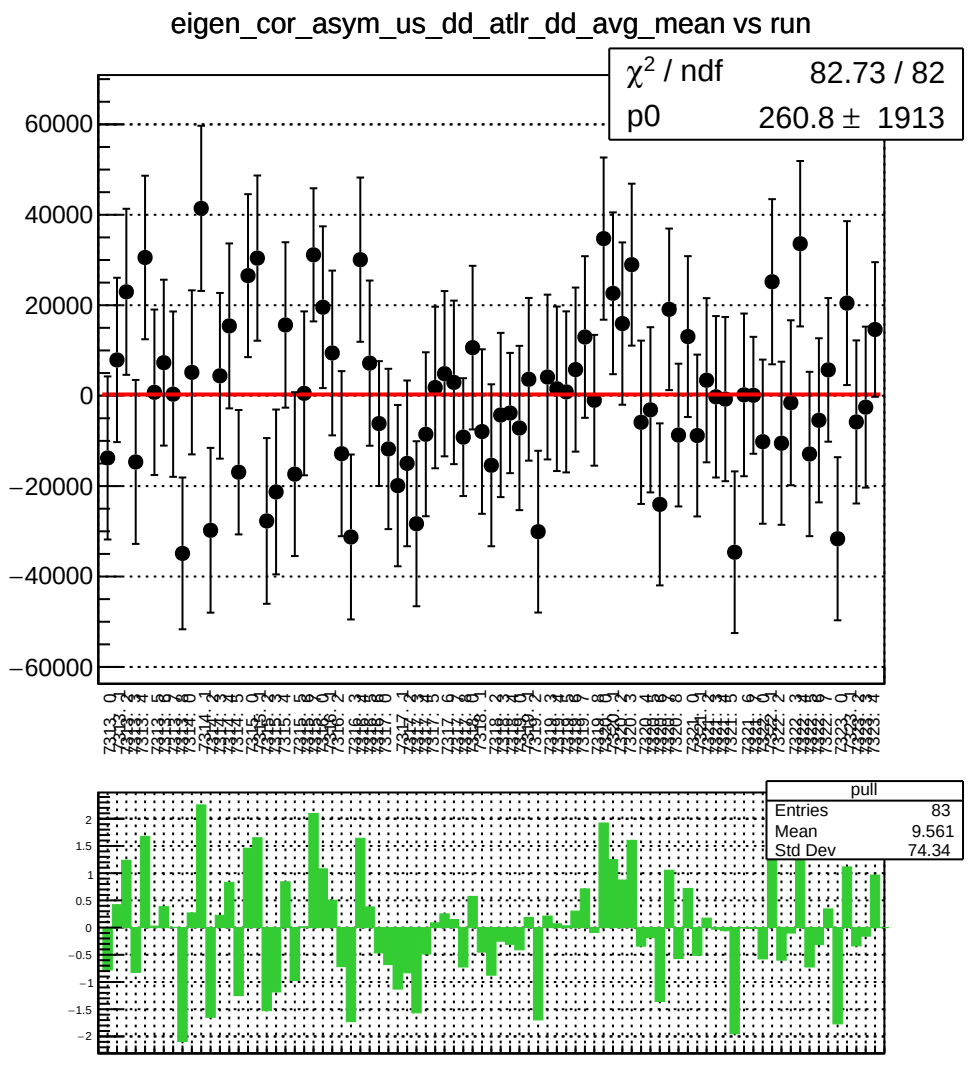

pull1D
Entries 83
Mean 0.006131
Std Dev 0.9984

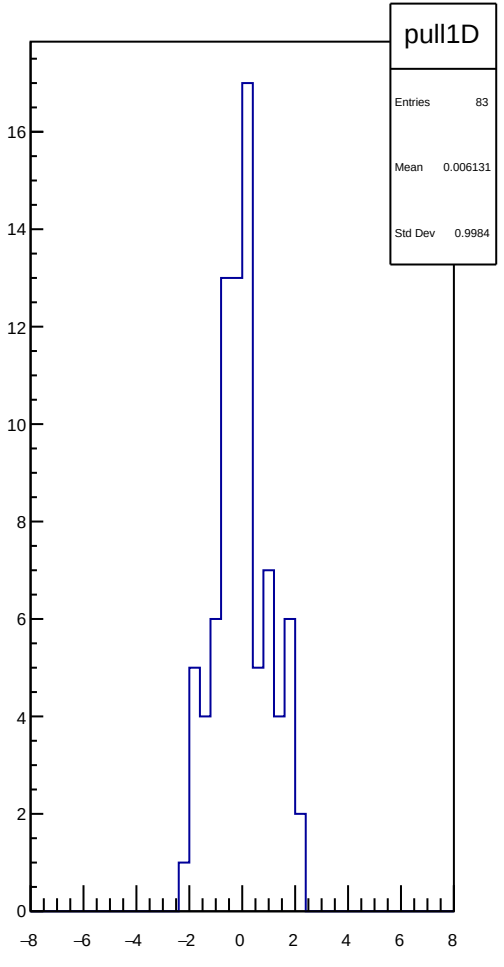

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 122.9 / 82
p0 1717 ± 1.353
1760
1740
1720
1700
1680

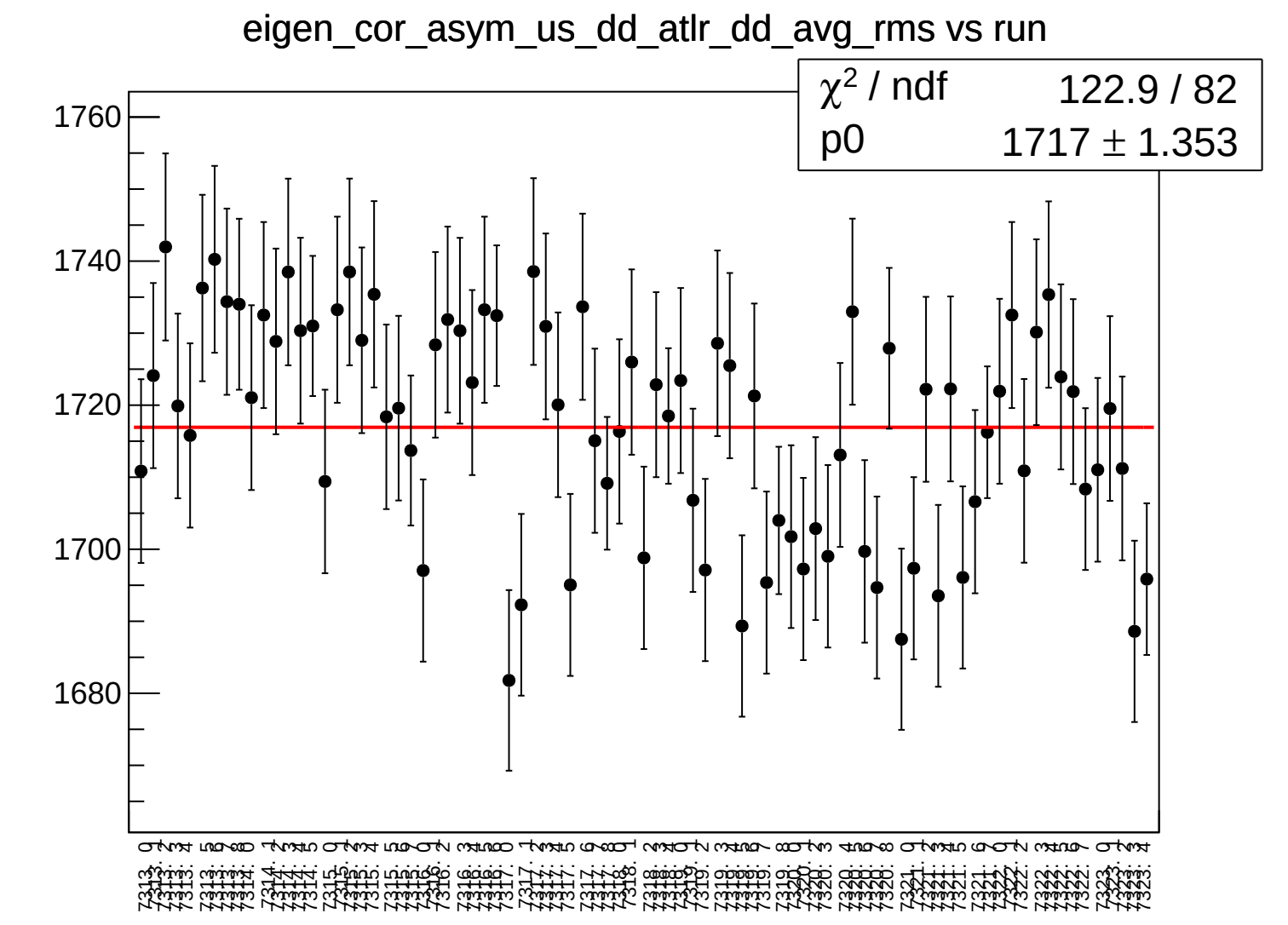

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 80.64 / 82
p0 −864.5 ± 845.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −822.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

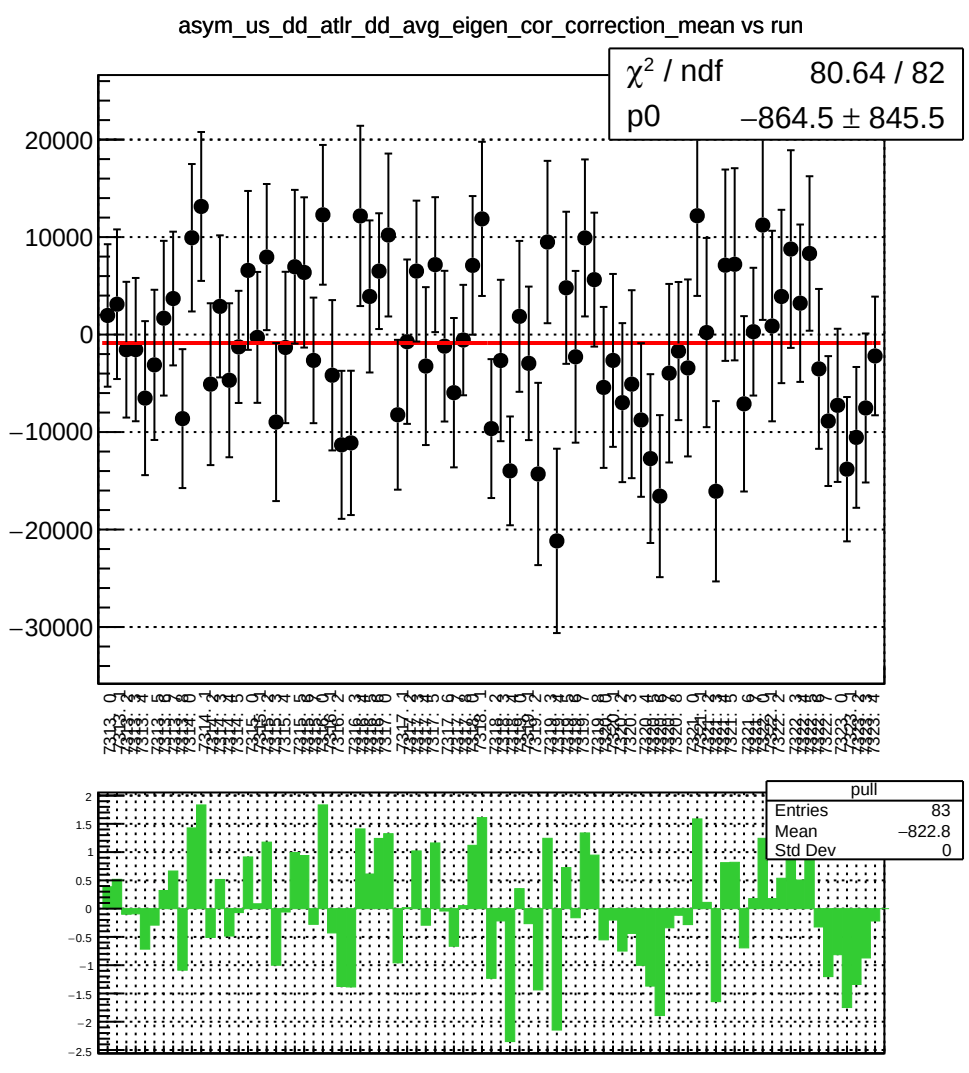

pull1D
Entries 83
Mean 0.005141
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

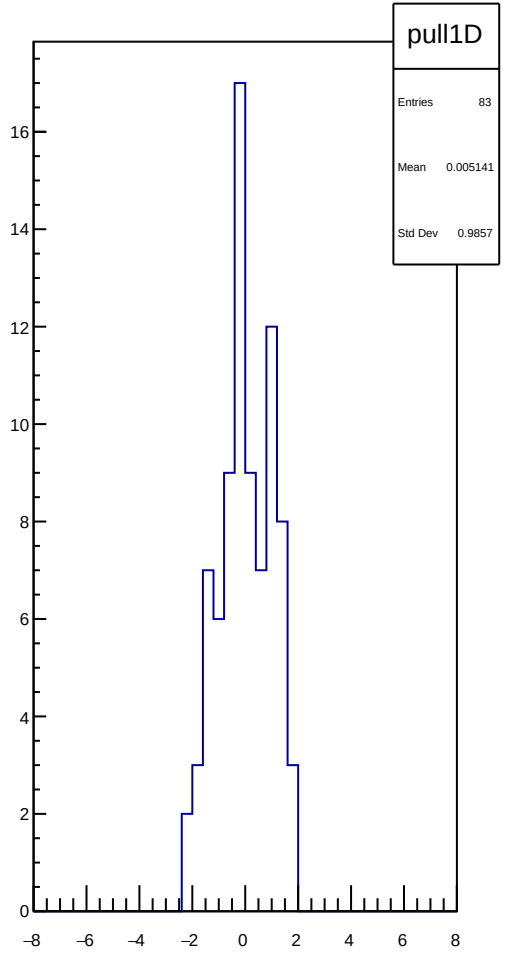

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.303e+04 / 82
p0 755.9 ± 0.5979
1000
950
900
850
800
750
700
650
600

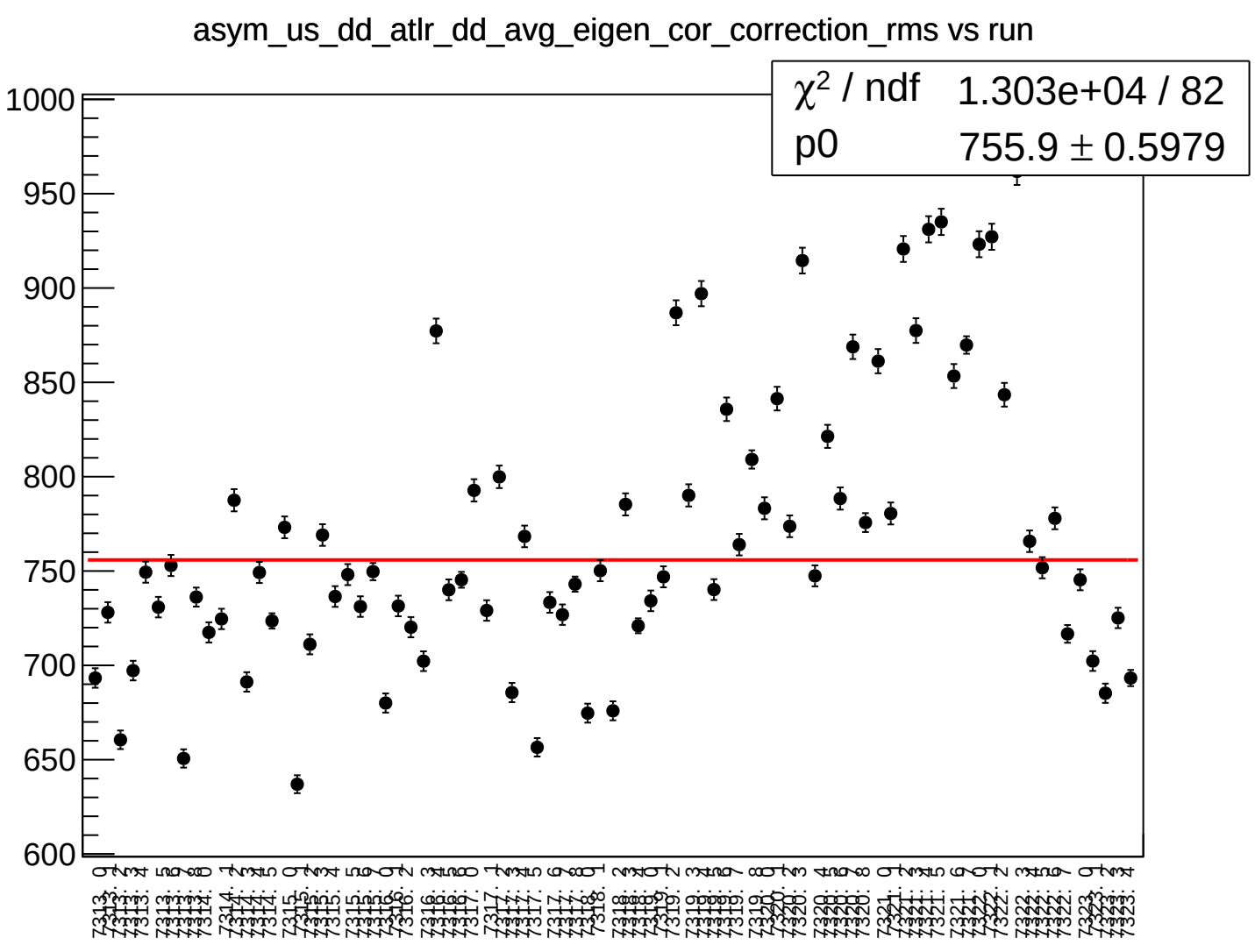

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 82.73 / 82
p0 260.8 ± 1913
pull
Entries 83
Mean 9.561
Std Dev 74.34

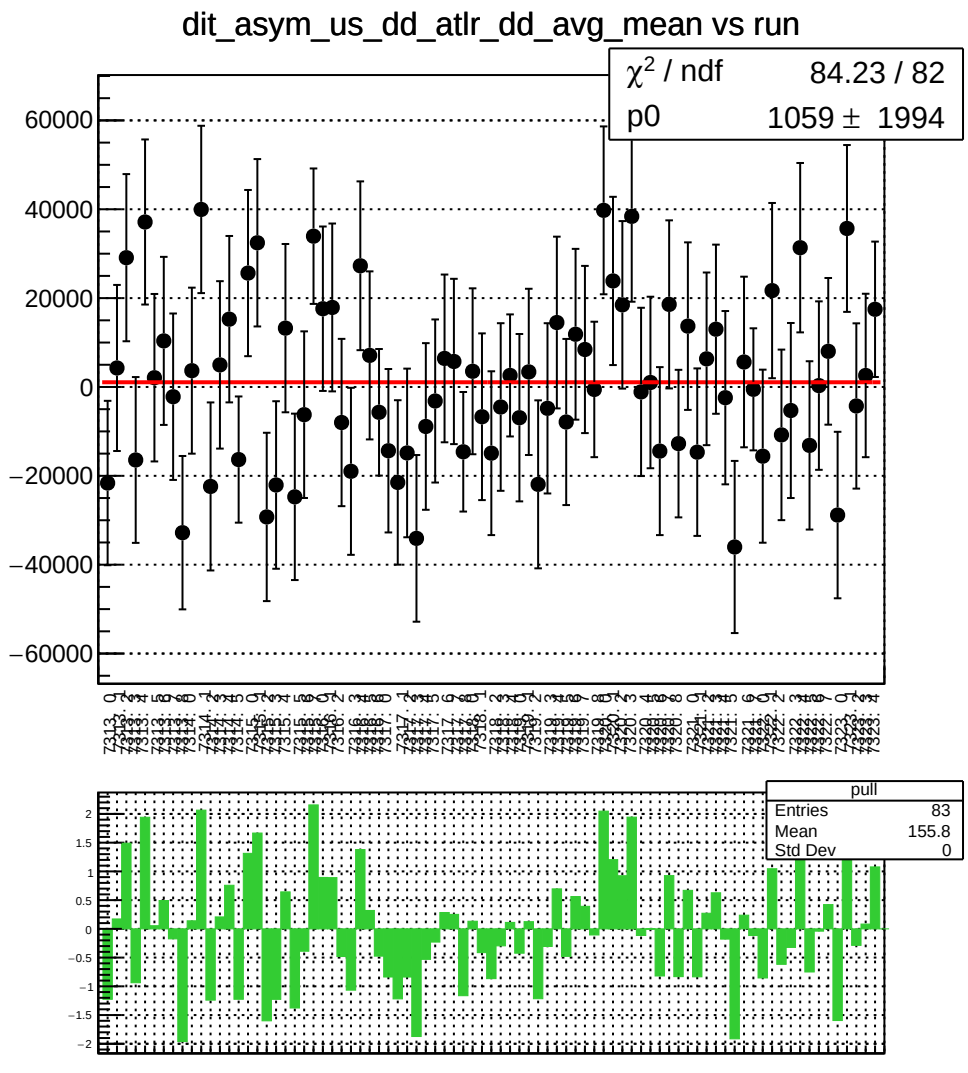

pull1D
Entries 83
Mean 0.006131
Std Dev 0.9984

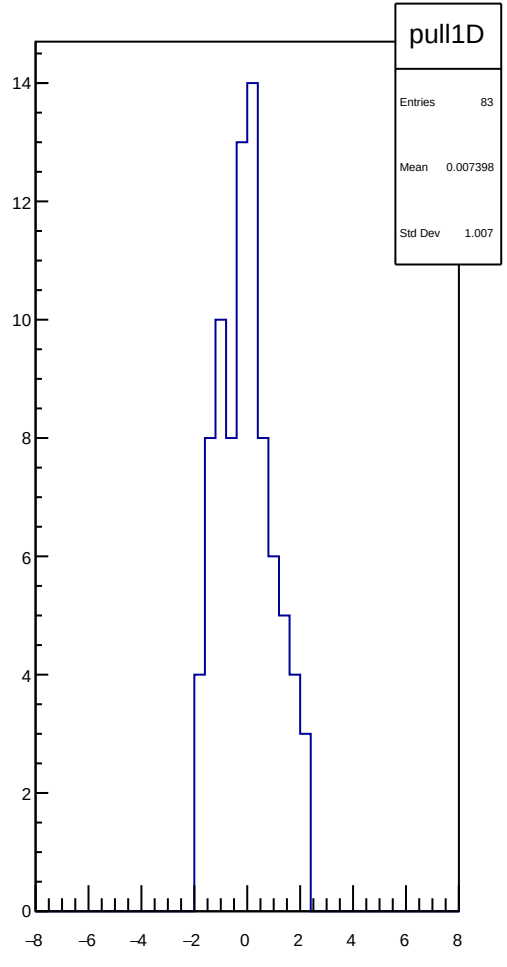

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 122.9 / 82
p0 1717 ± 1.353
1760
1740
1720
1700
1680

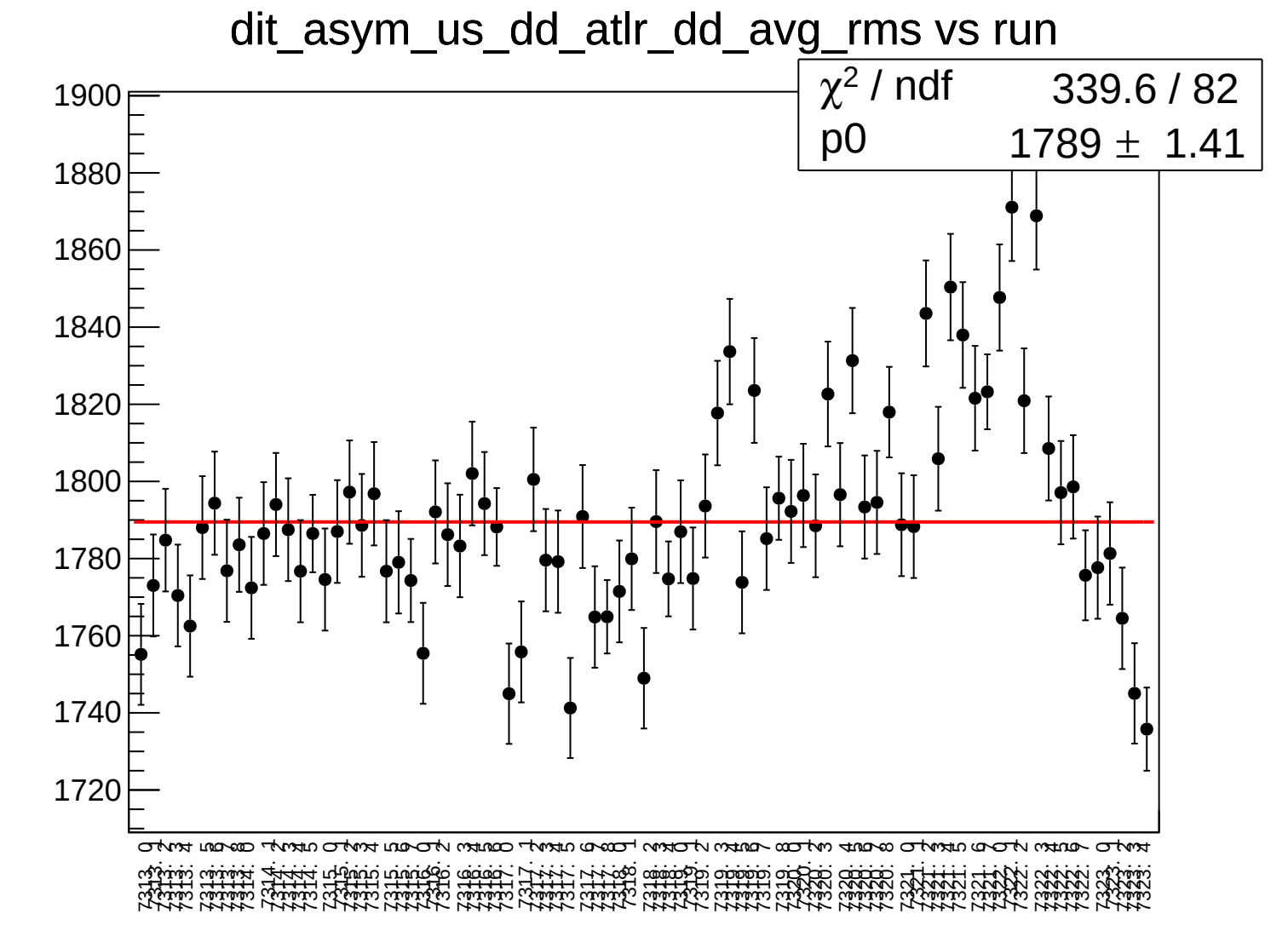

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.64 / 82
p0 −864.5 ± 845.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −822.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

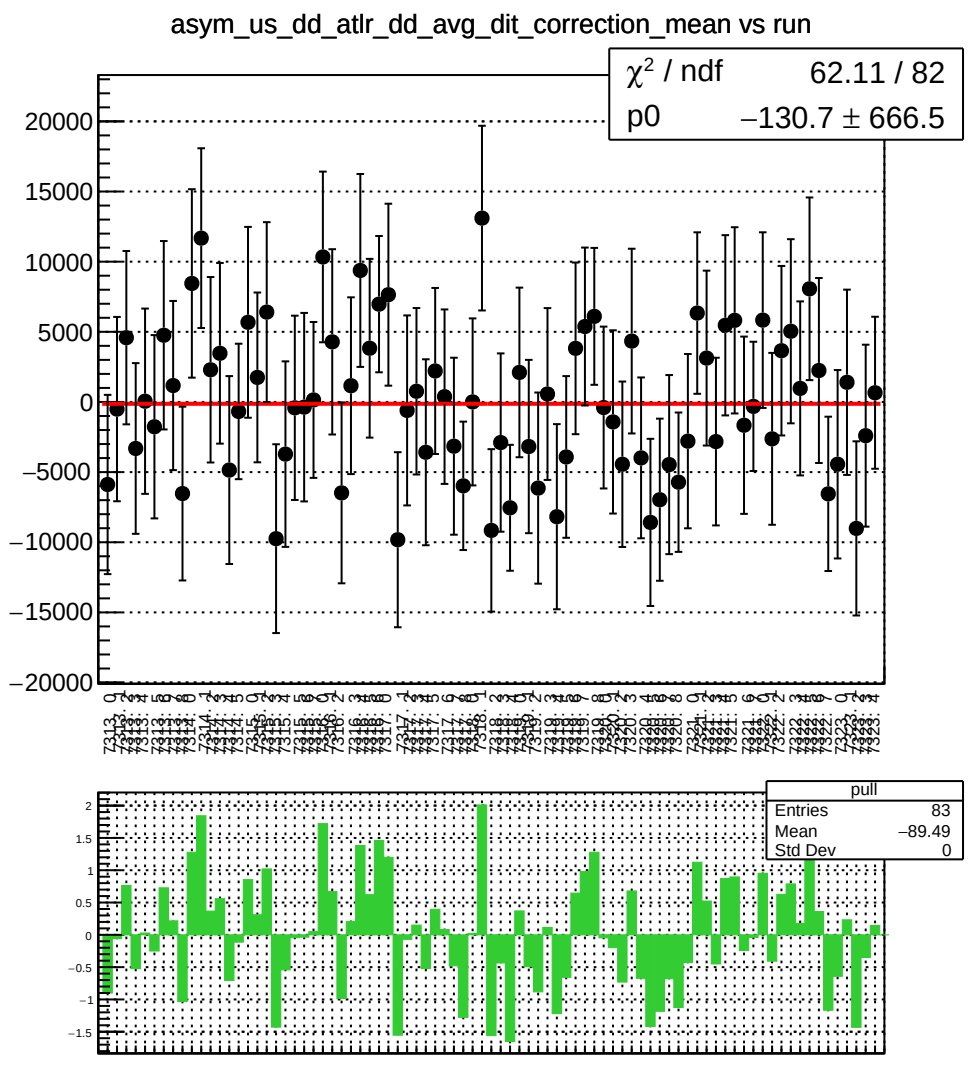

pull1D
Entries 83
Mean 0.005141
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

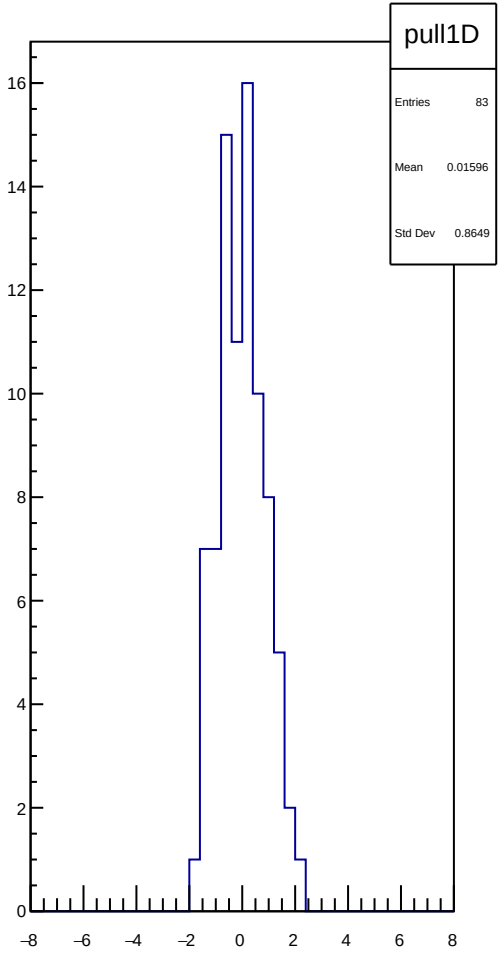

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.303e+04 / 82
p0 755.9 ± 0.5979
1000
950
900
850
800
750
700
650
600

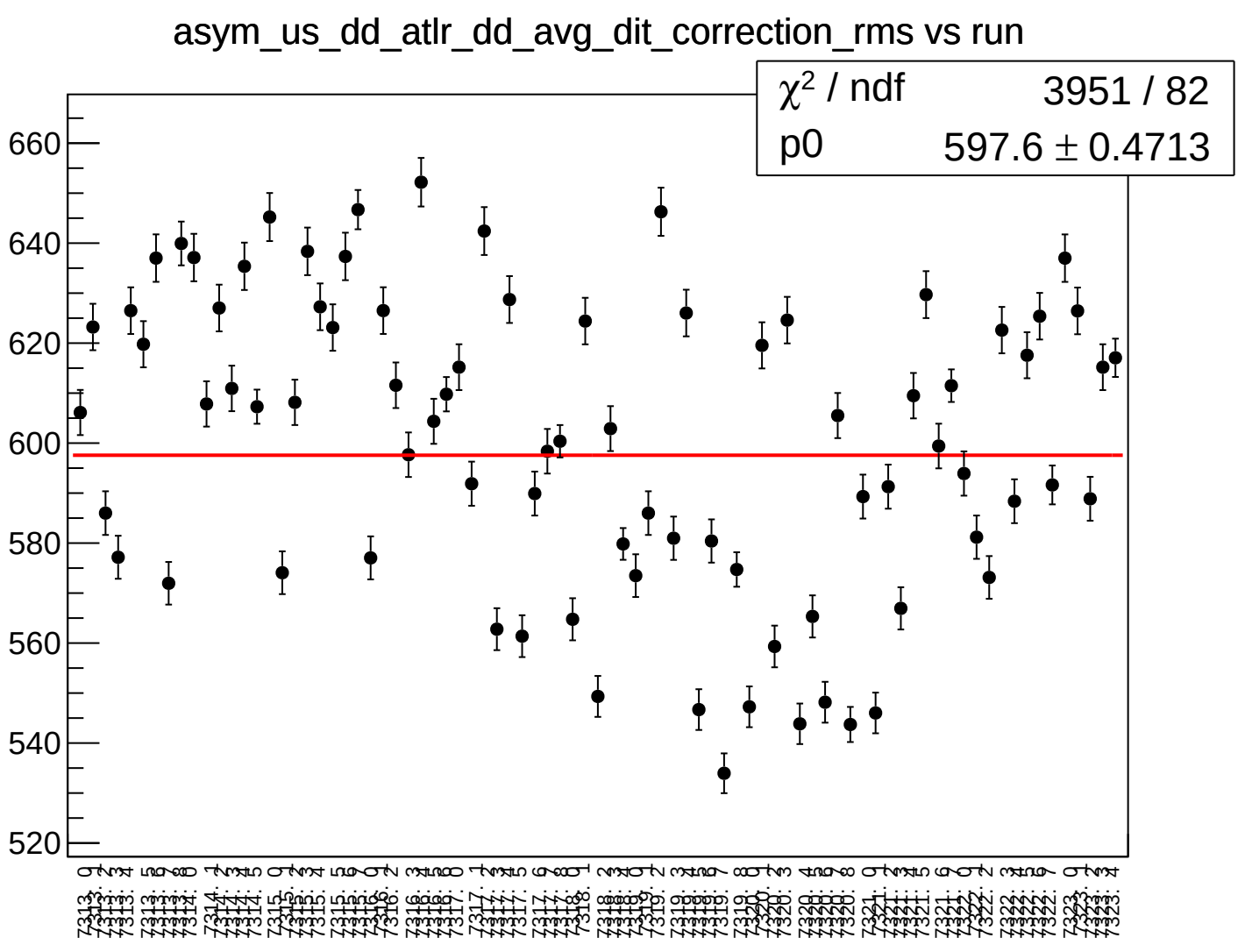

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.23 / 82
p0 1059 ± 1994
pull
Entries 83
Mean 155.8
Std Dev 0

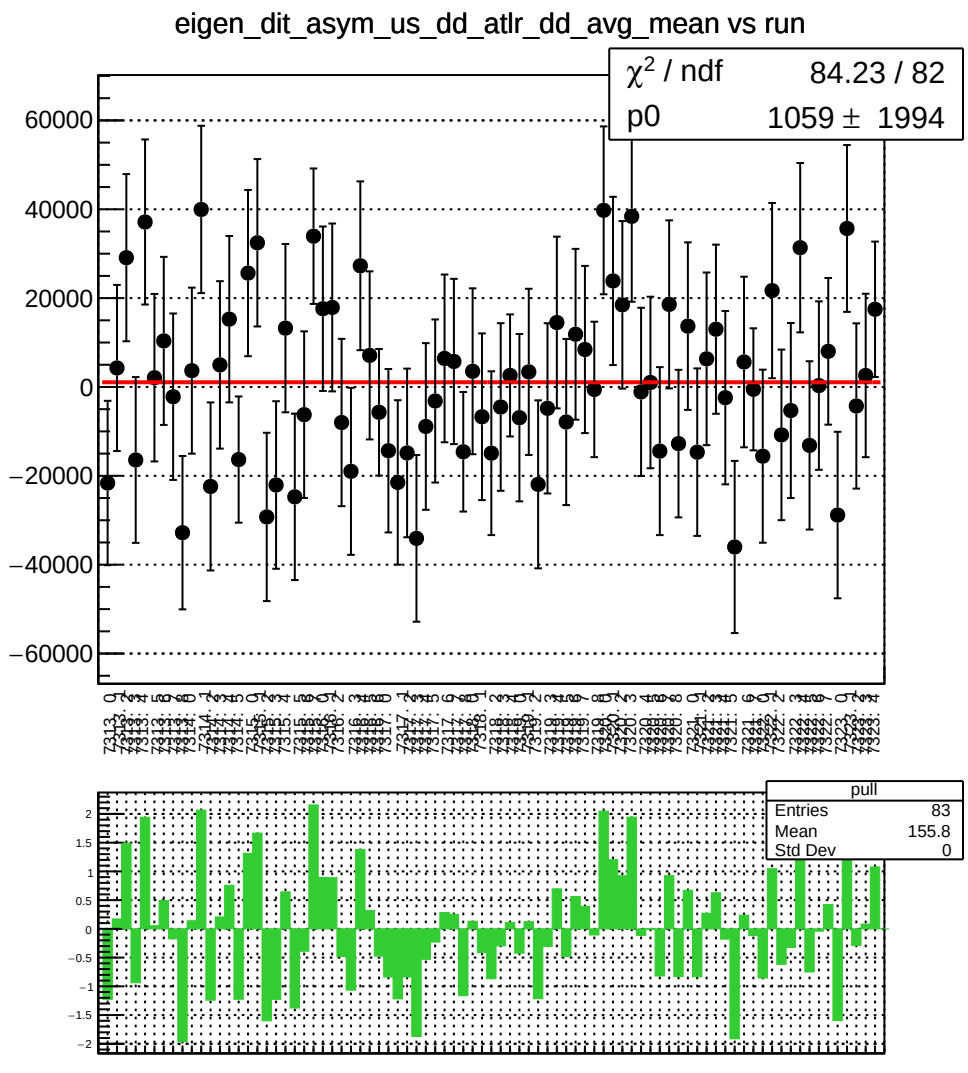

pull1D
Entries 83
Mean 0.007398
Std Dev 1.007

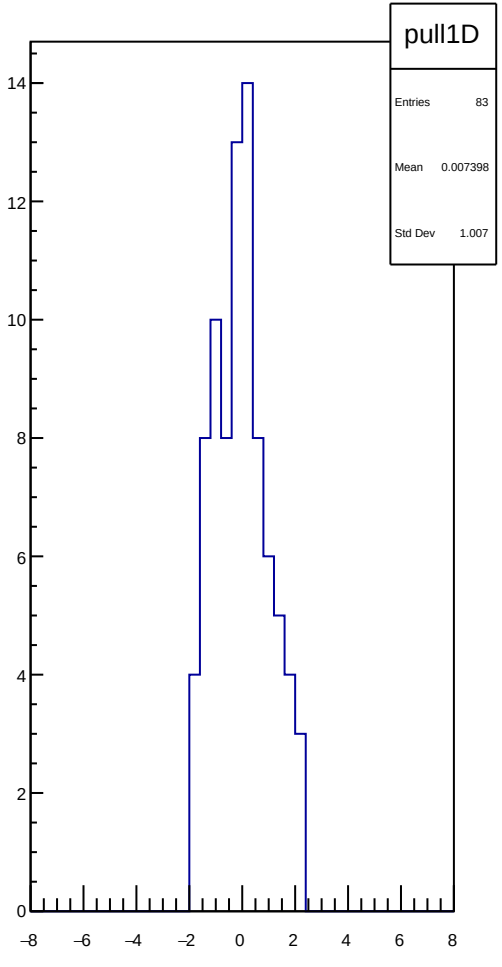

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 339.6 / 82
p0 1789 ± 1.41
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

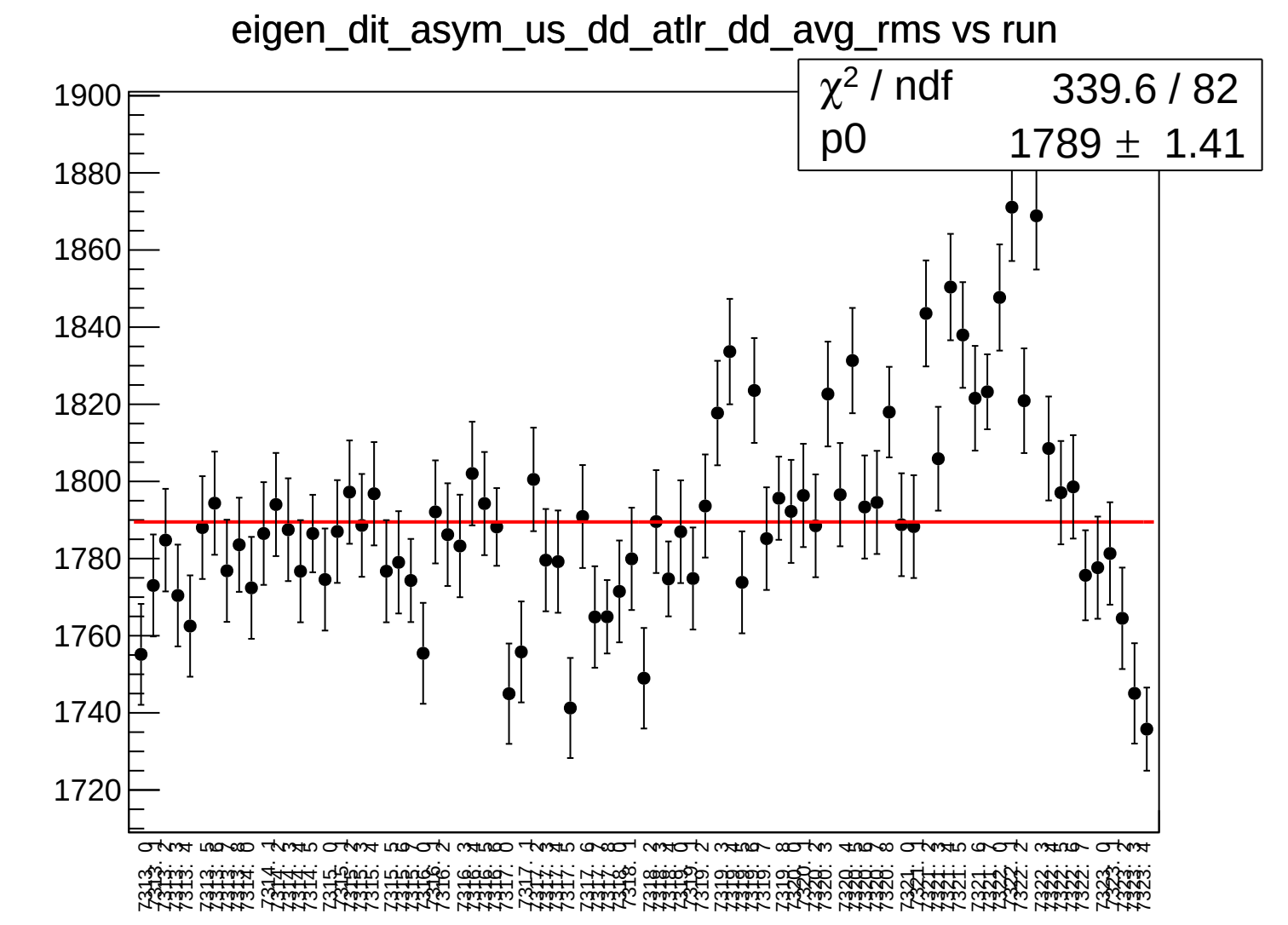

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 62.11 / 82
p0 −130.7 ± 666.5
pull
Entries 83
Mean −89.49
Std Dev 0

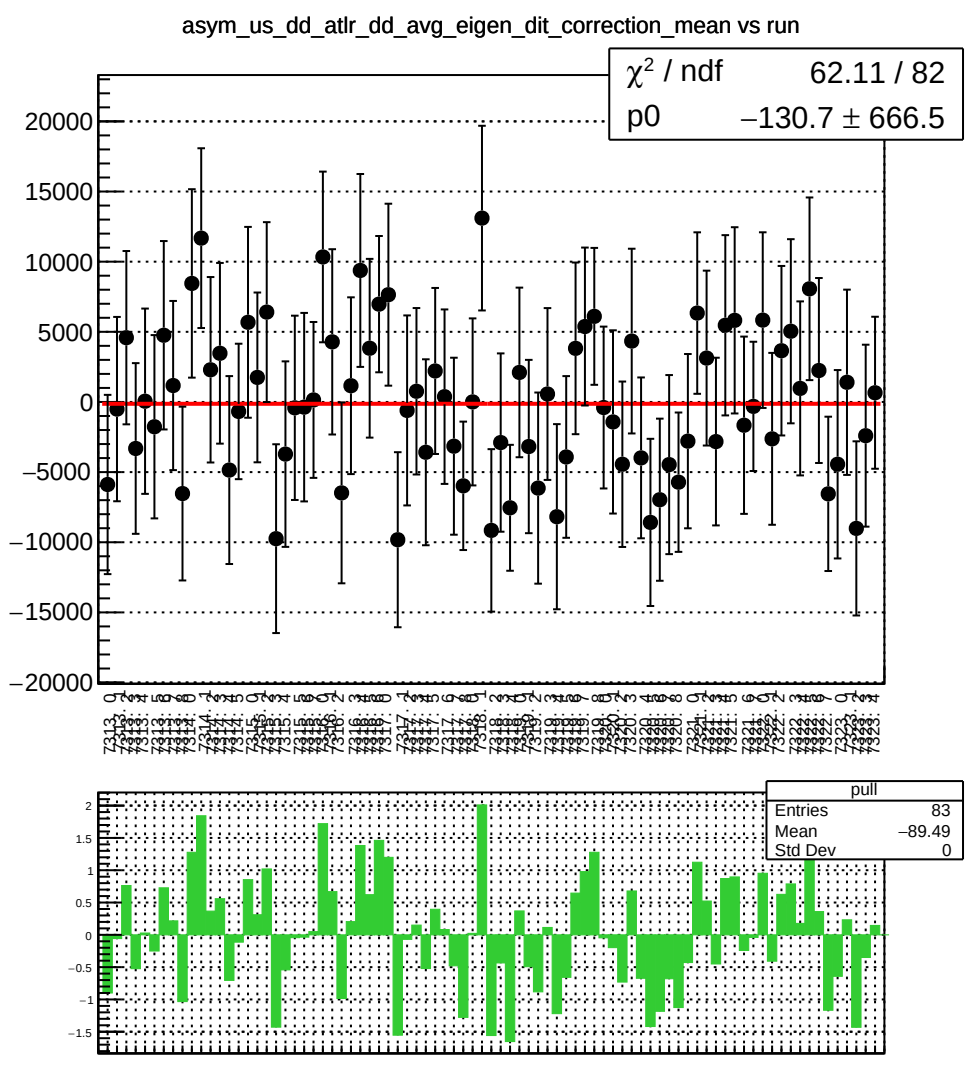

pull1D
Entries 83
Mean 0.01596
Std Dev 0.8649

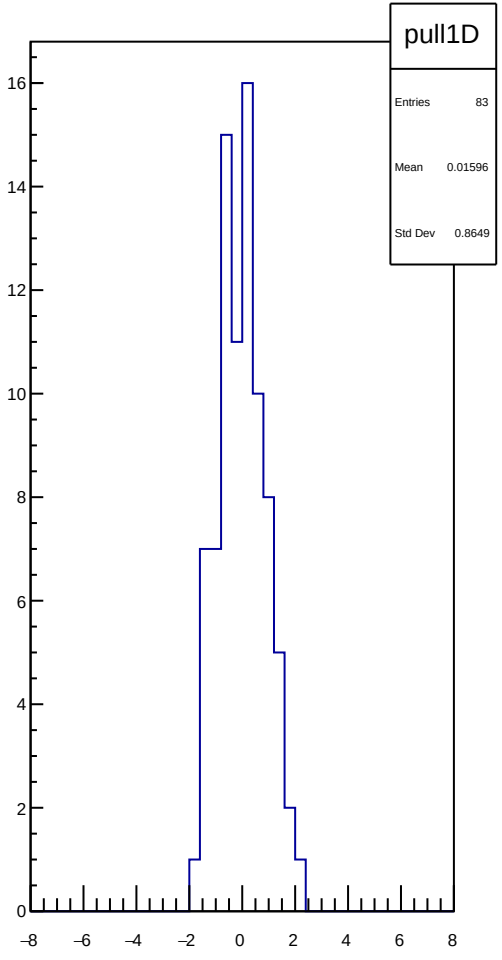

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3951 / 82
p0 597.6 ± 0.4713
660
640
620
600
580
560
540
520

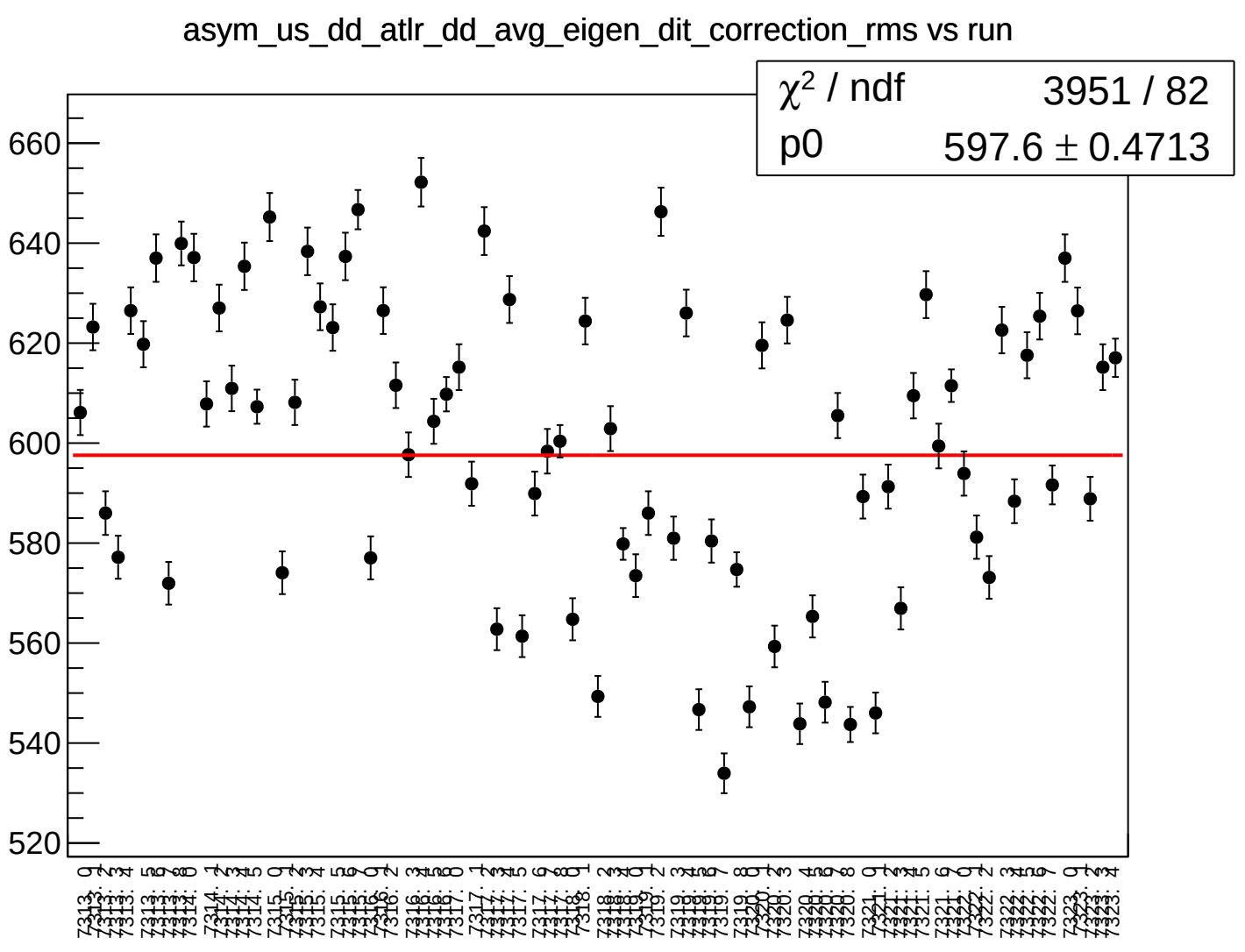

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.23 / 82
p0 1059 ± 1994
pull
Entries 83
Mean 155.8
Std Dev 0

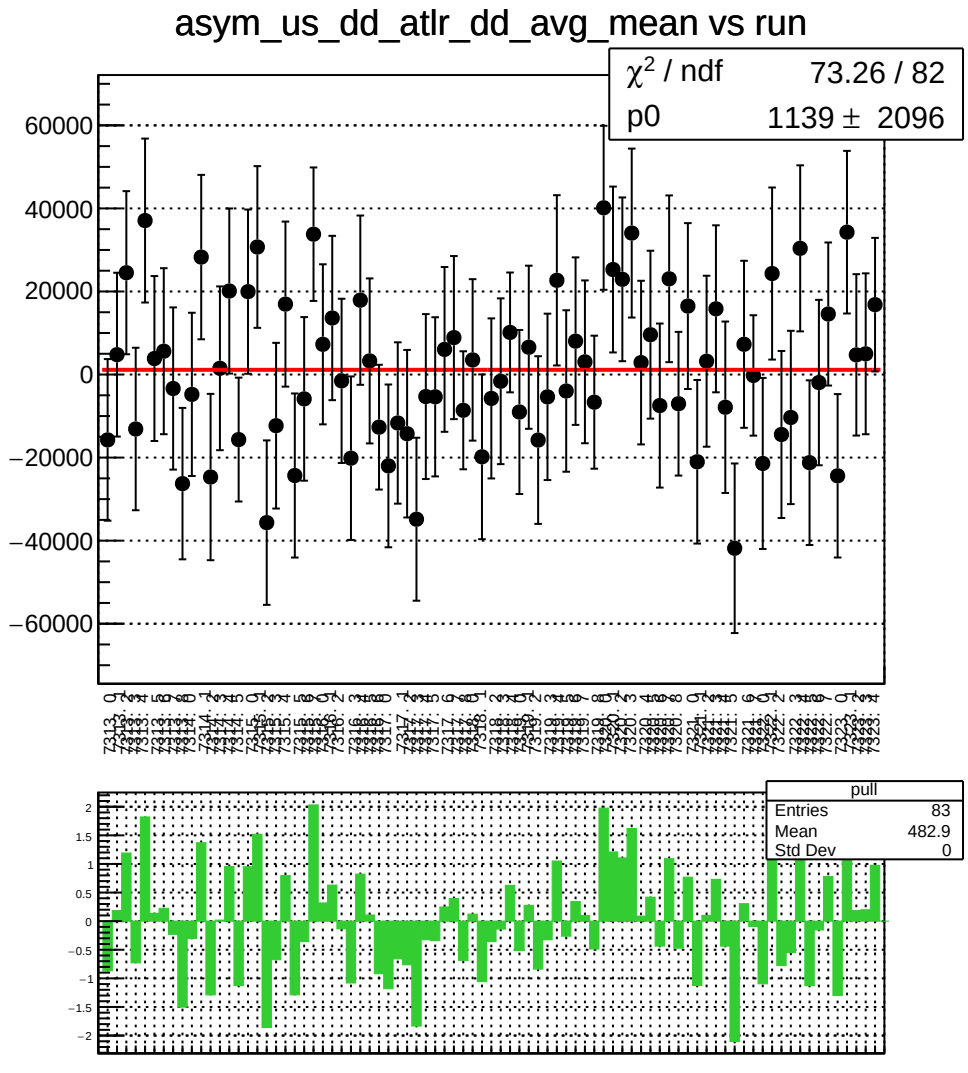

pull1D
Entries 83
Mean 0.007398
Std Dev 1.007

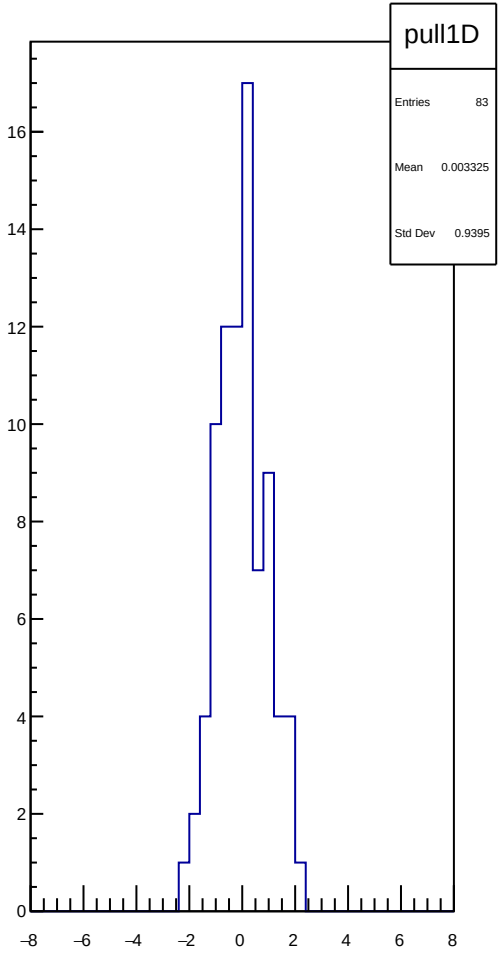

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 339.6 / 82
p0 1789 ± 1.41
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

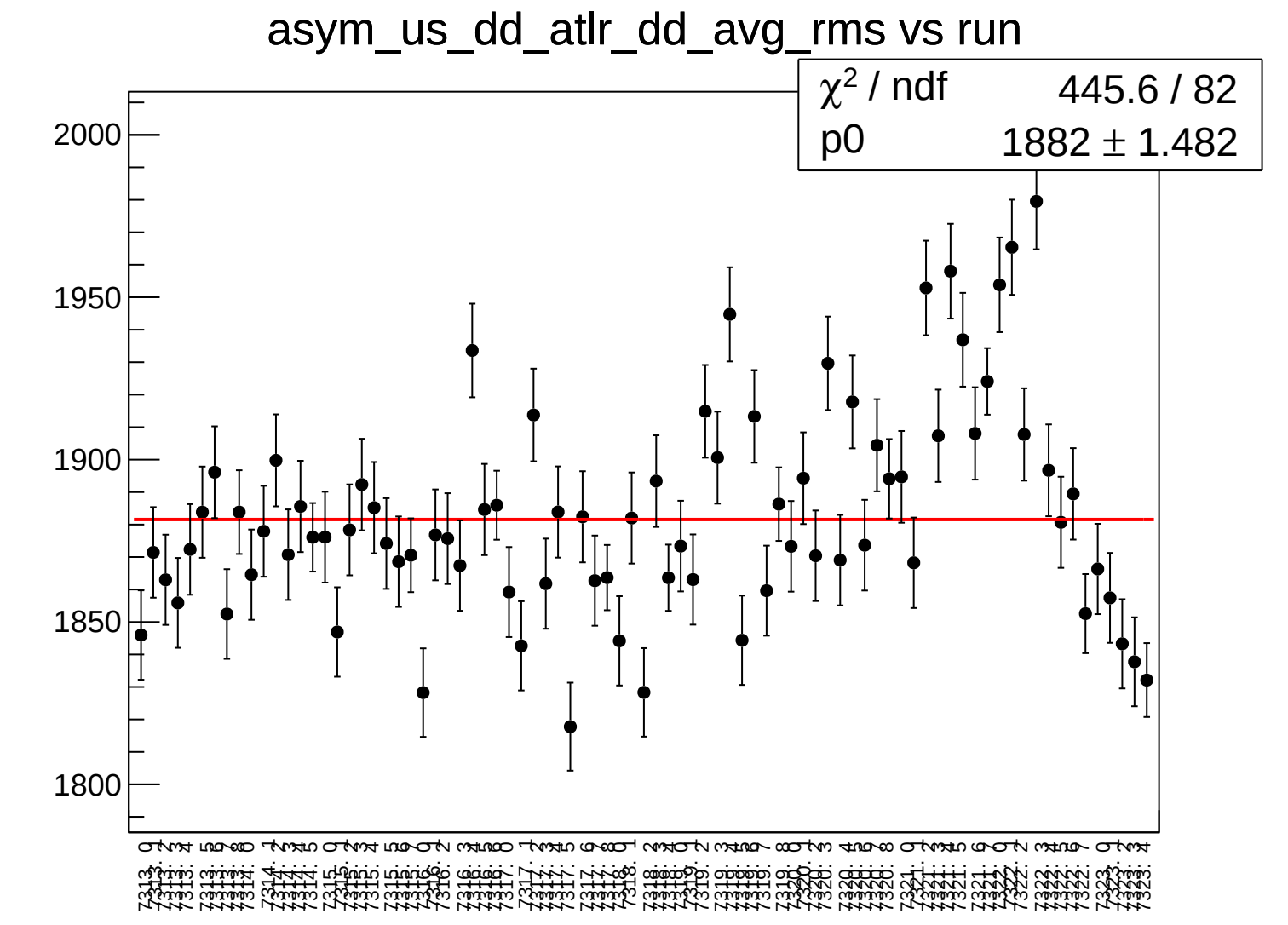

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.11 / 82
p0 −130.7 ± 666.5
pull
Entries 83
Mean −89.49
Std Dev 0

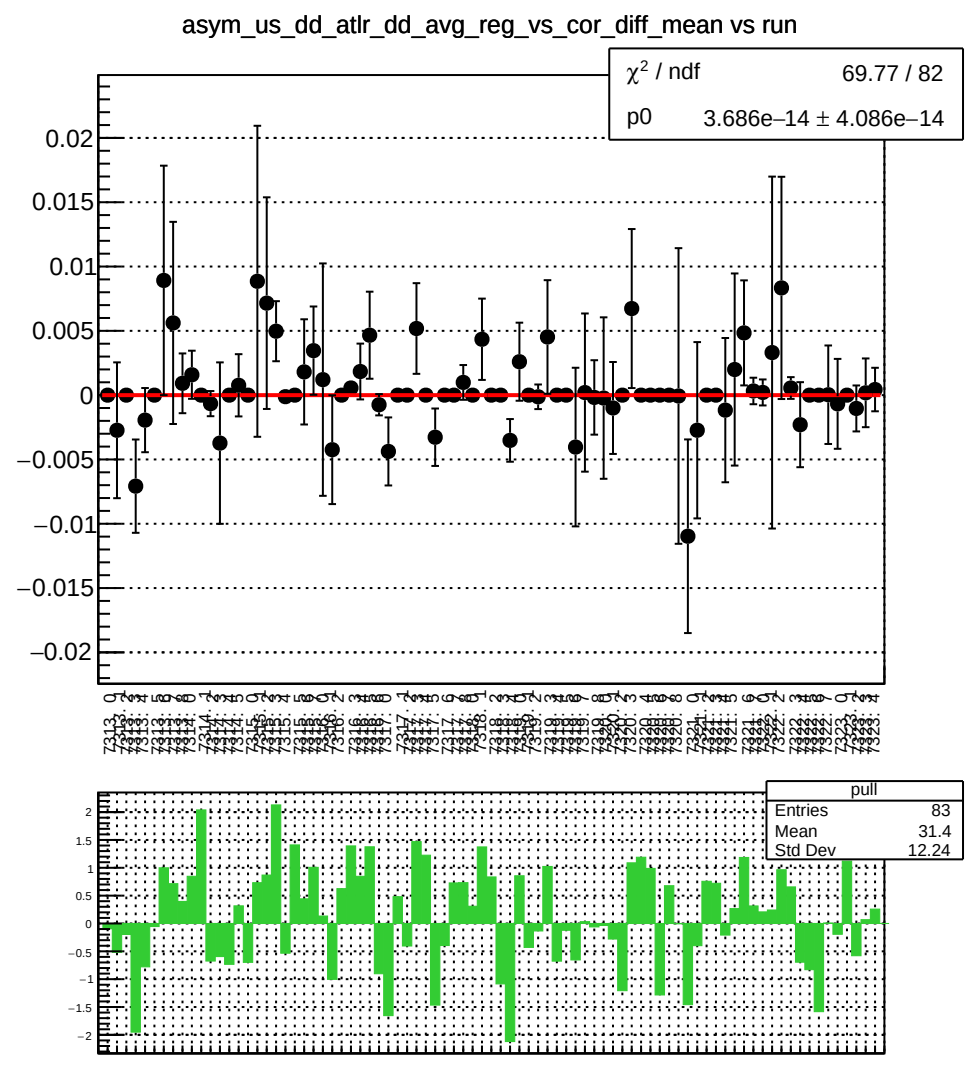

pull1D
Entries 83
Mean 0.01596
Std Dev 0.8649

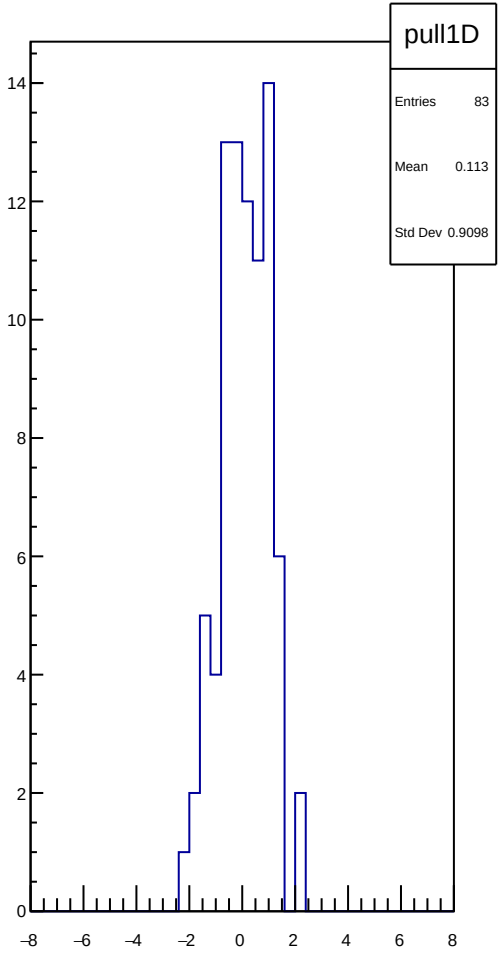

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3951 / 82
p0 597.6 ± 0.4713
660
640
620
600
580
560
540
520

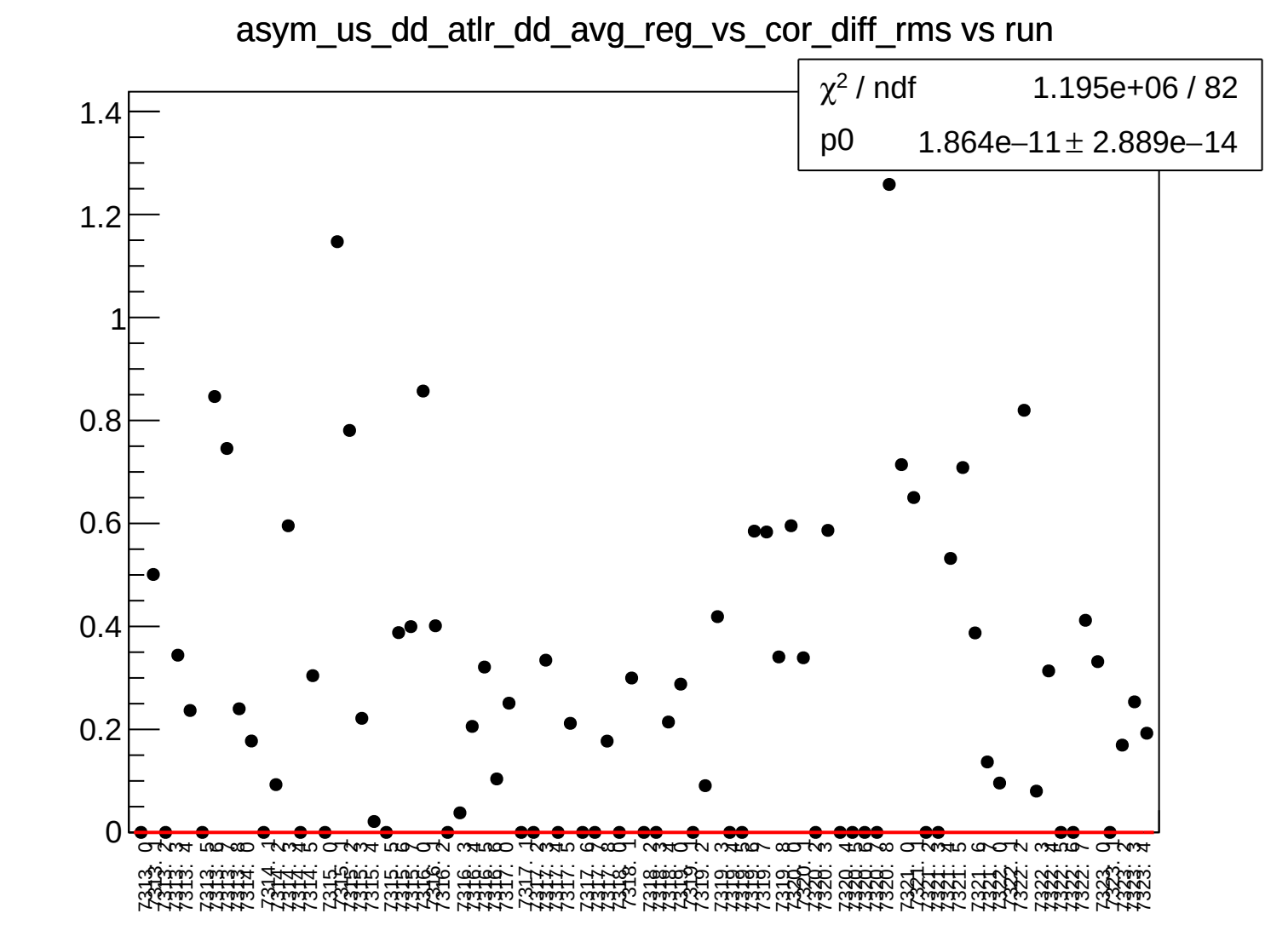

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.26 / 82
p0 1139 ± 2096
pull
Entries 83
Mean 482.9
Std Dev 0

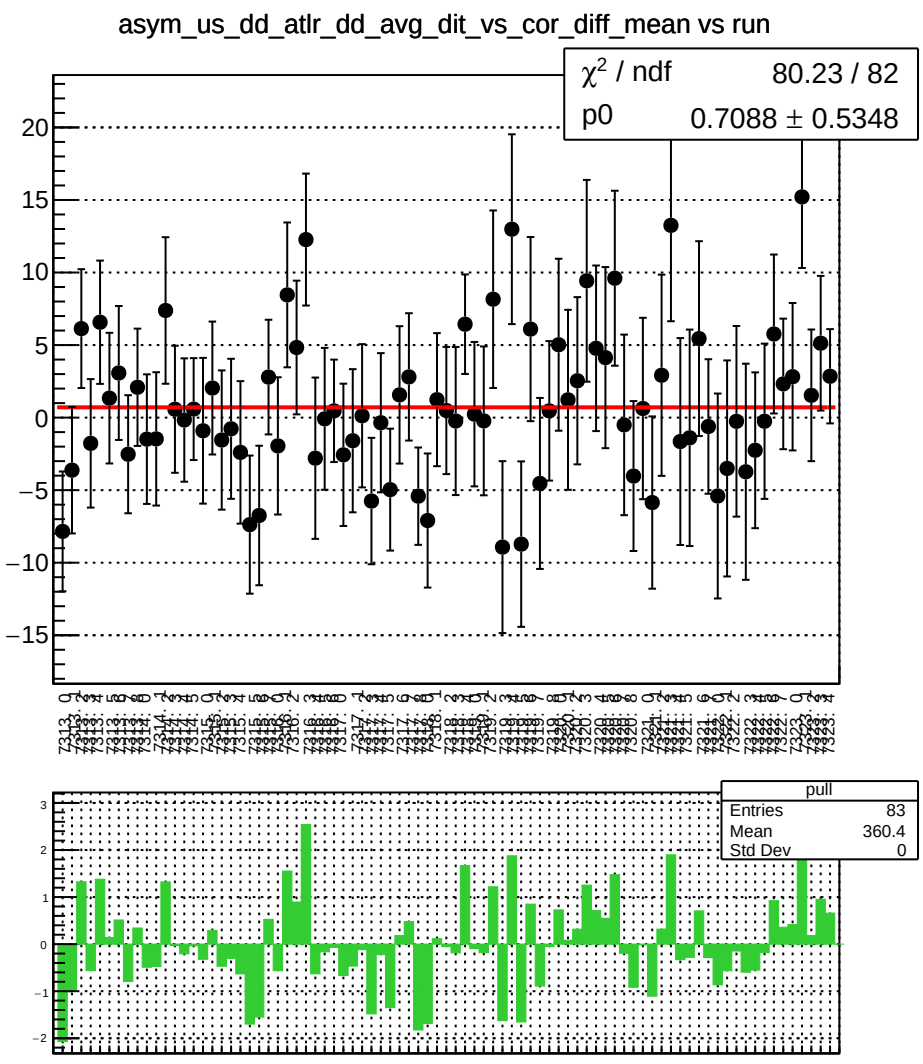

pull1D
Entries 83
Mean 0.003325
Std Dev 0.9395

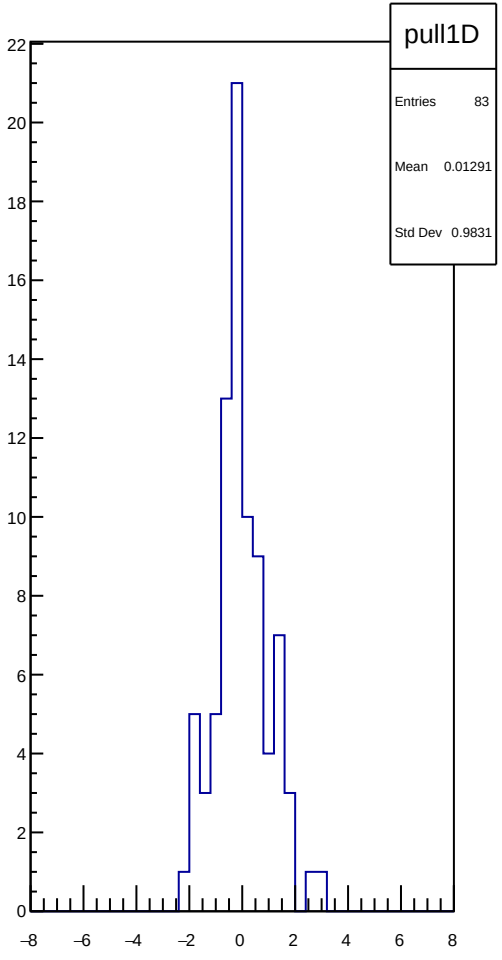

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 445.6 / 82
p0 1882 ± 1.482
2000
1950
1900
1850
1800

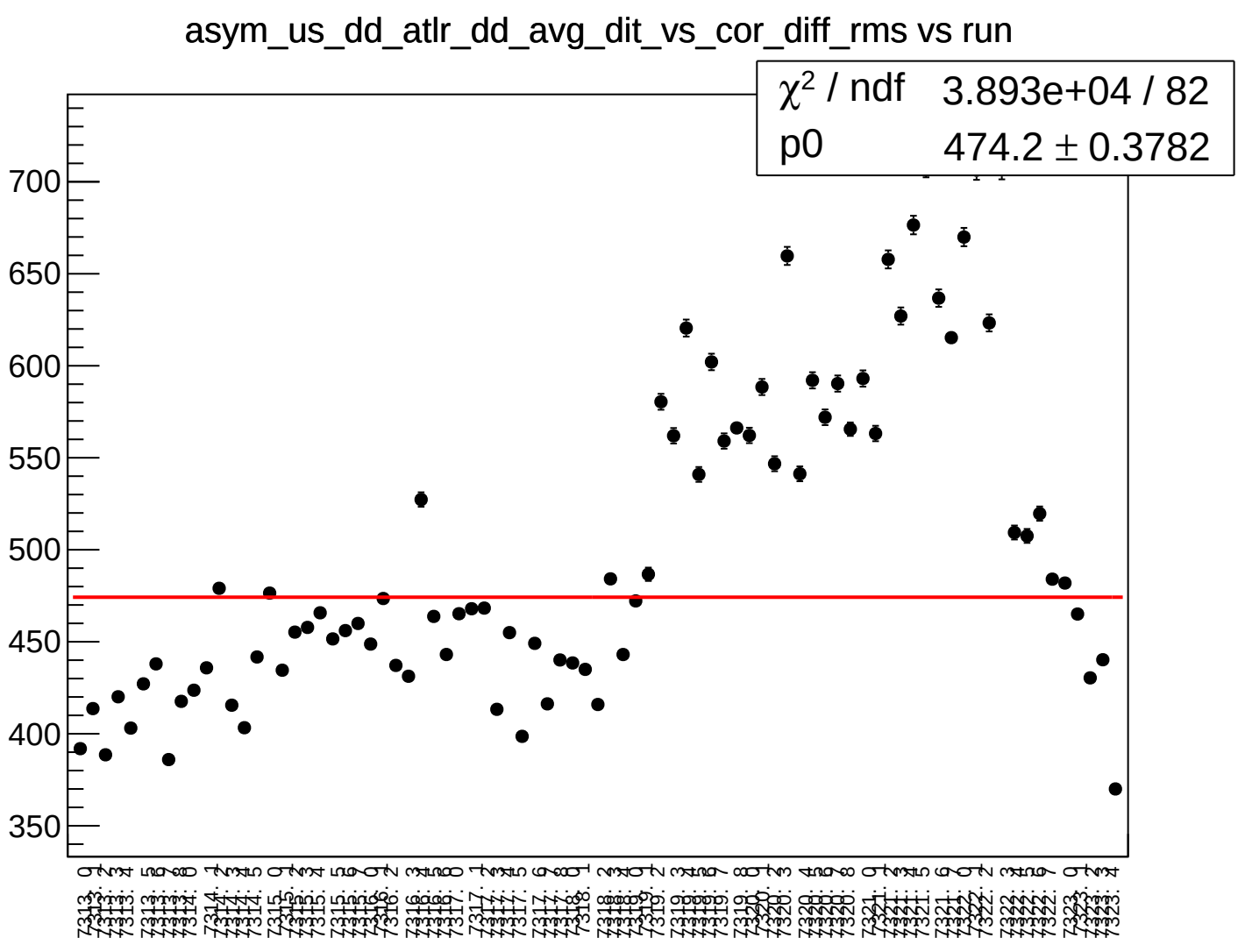

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.77 / 82
p0 3.686e−14 ± 4.086e−14
pull
Entries 83
Mean 31.4
Std Dev 12.24

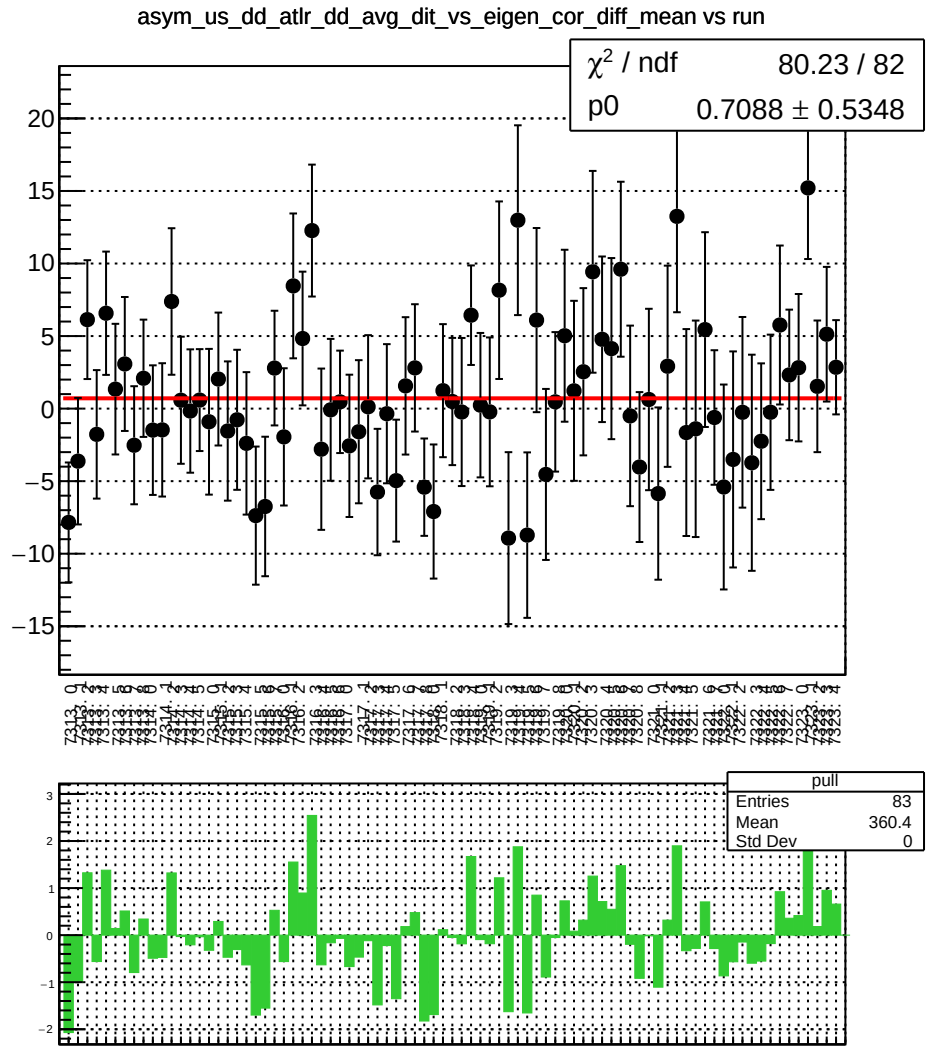

pull1D
Entries 83
Mean 0.113
Std Dev 0.9098

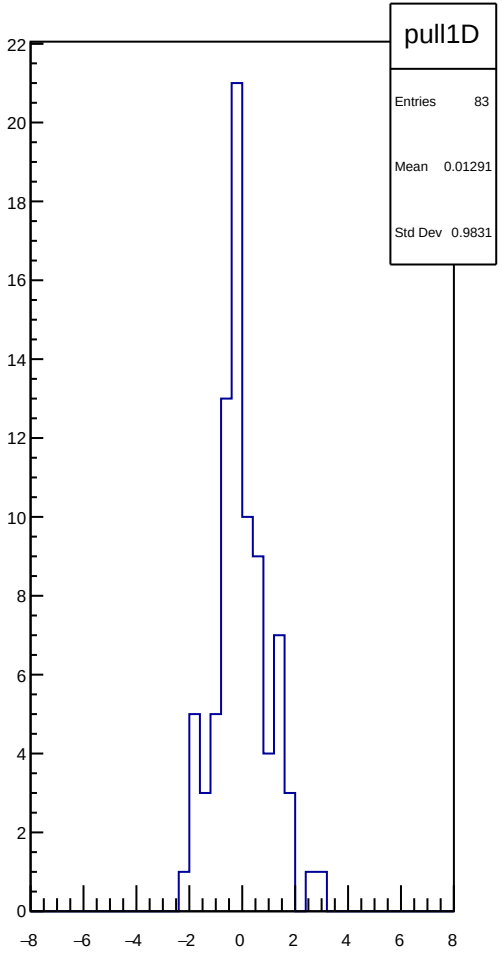

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.195e+06 / 82
p0 1.864e−11 ± 2.889e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

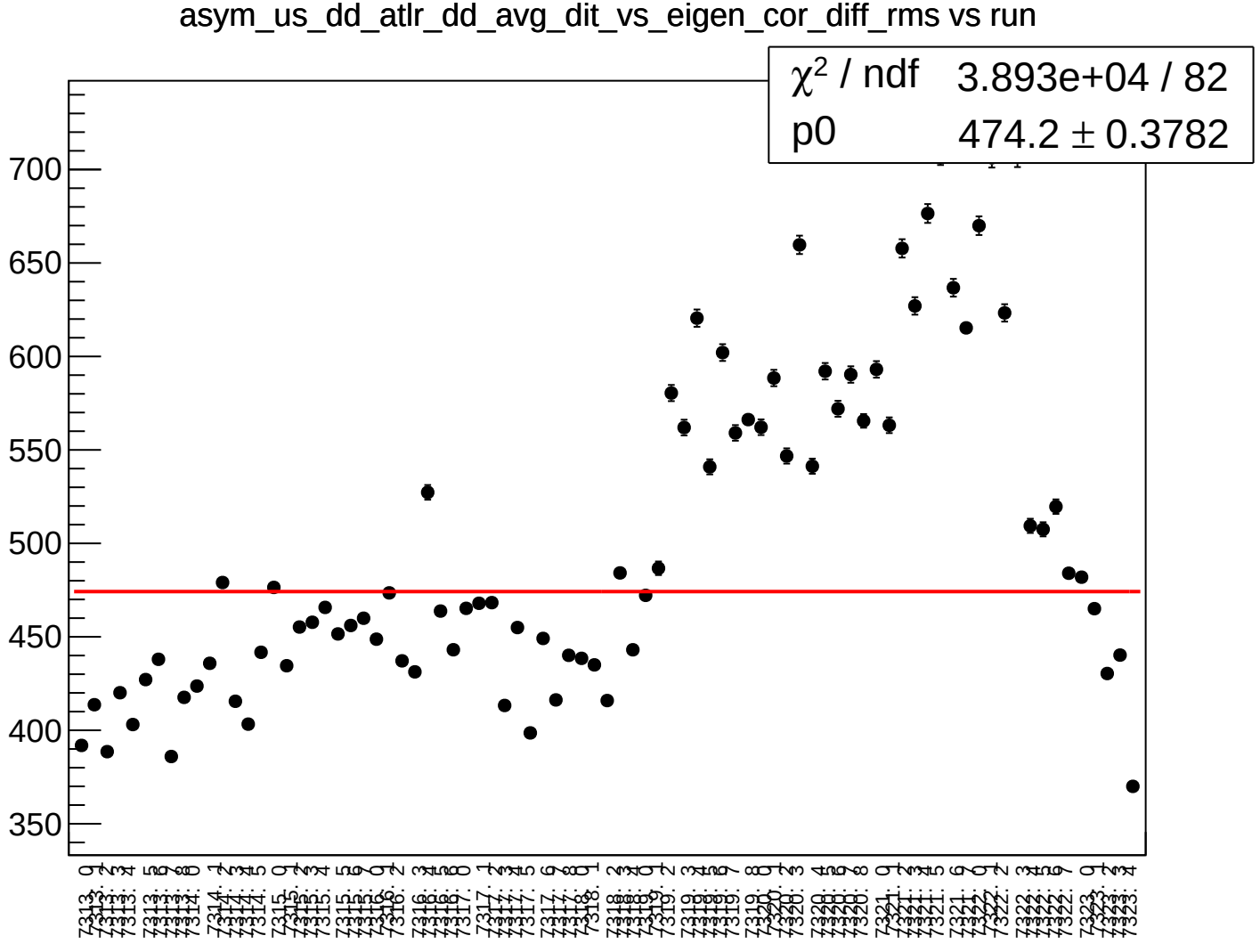

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.23 / 82
p0 0.7088 ± 0.5348
pull
Entries 83
Mean 360.4
Std Dev 0

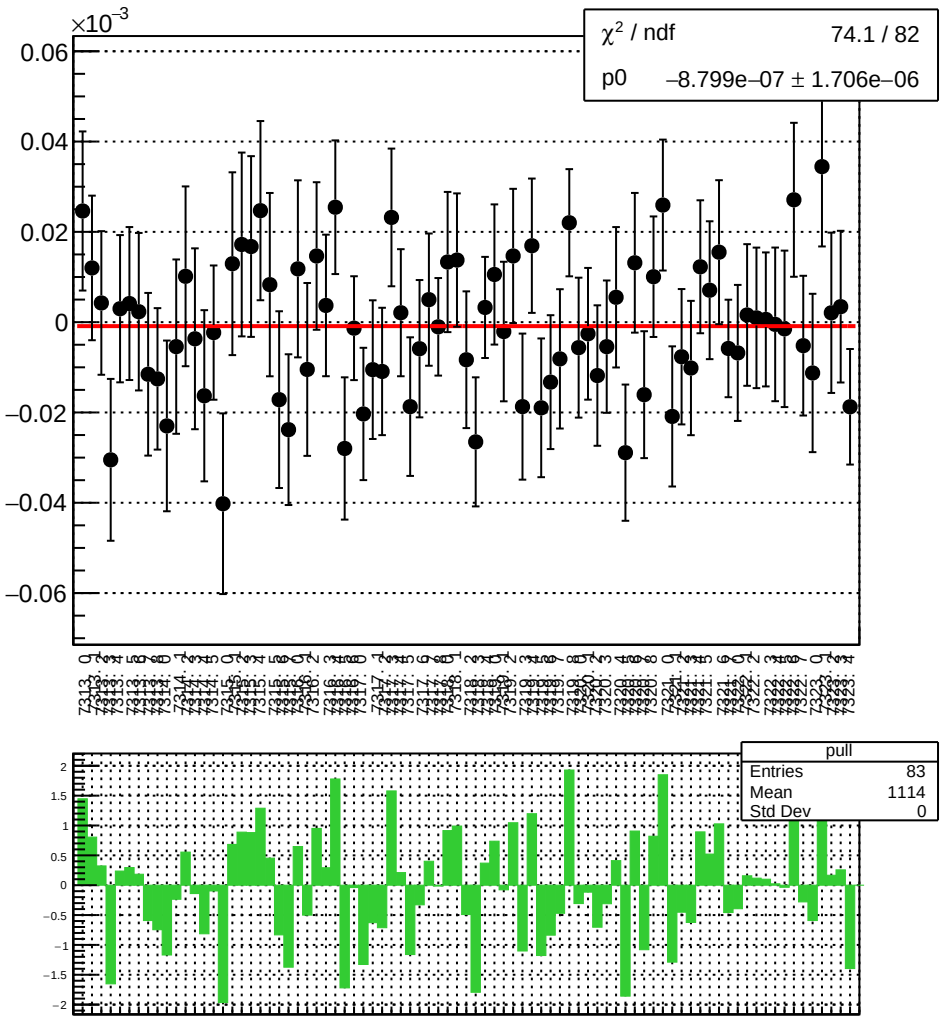

pull1D
Entries 83
Mean 0.01291
Std Dev 0.9831

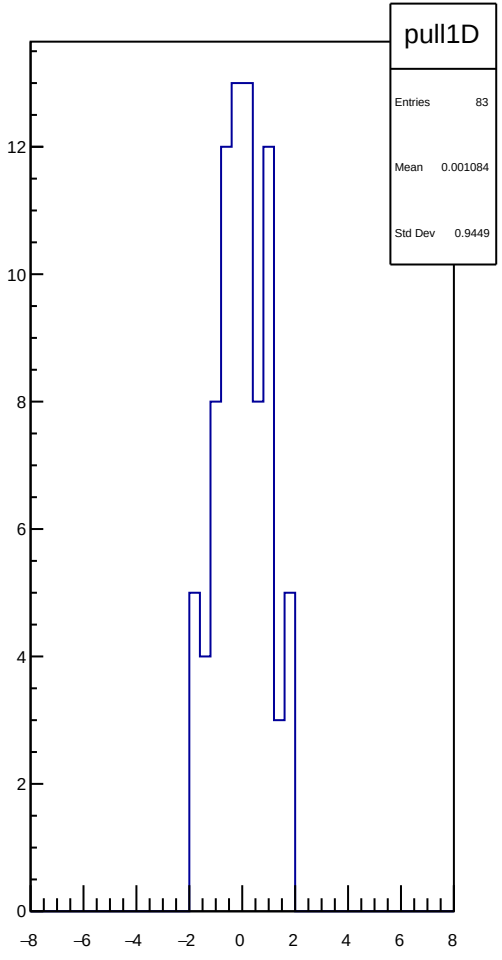

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.893e+04 / 82
p0 474.2 ± 0.3782
700
650
600
550
500
450
400
350

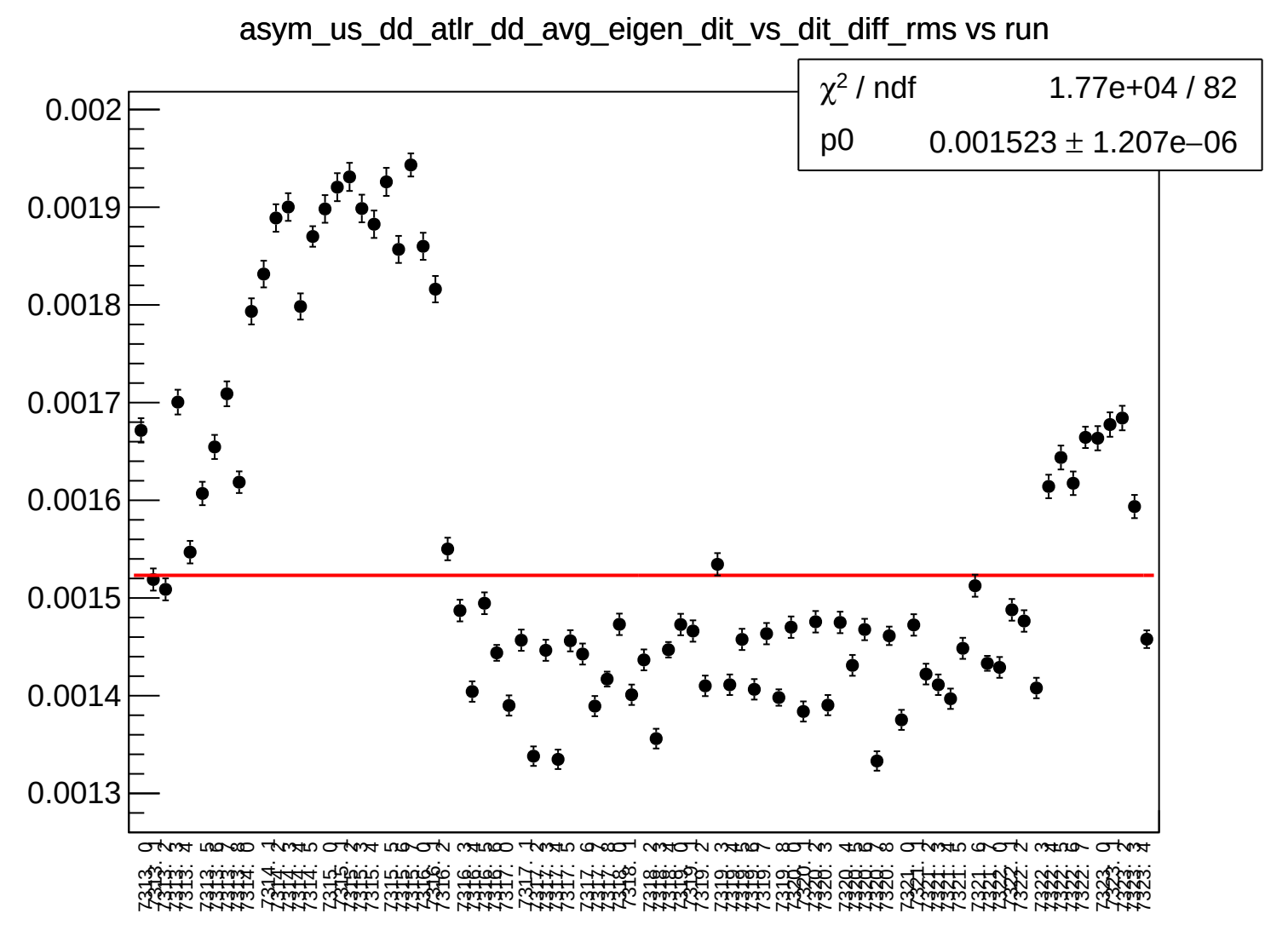

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.23 / 82
p0 0.7088 ± 0.5348
pull
Entries 83
Mean 360.4
Std Dev 0

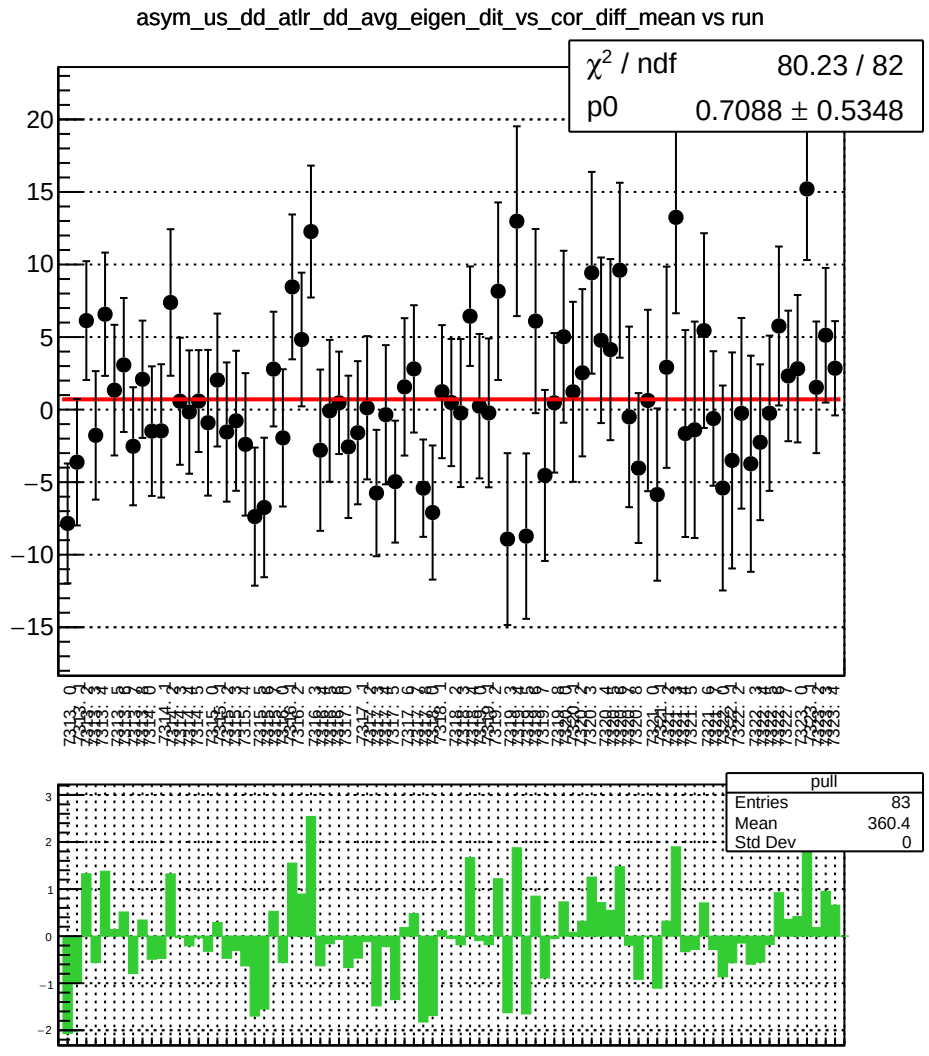

pull1D
Entries 83
Mean 0.01291
Std Dev 0.9831

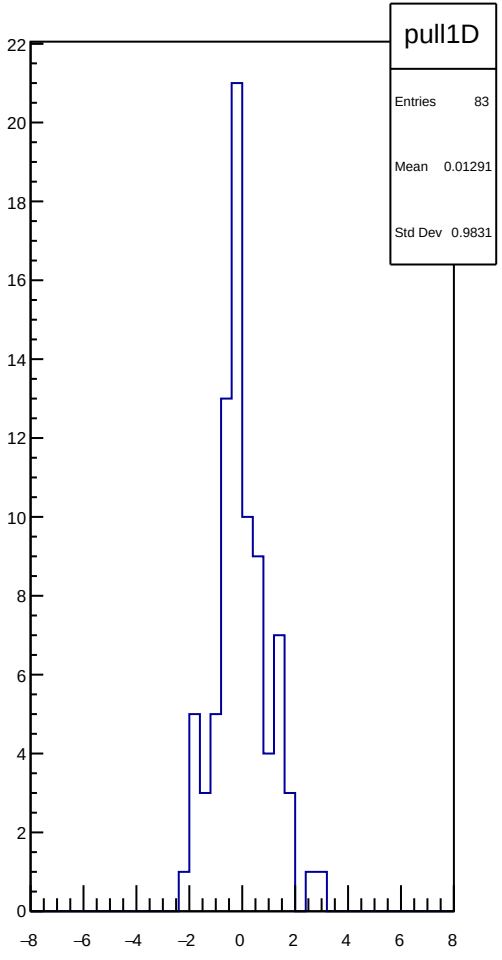

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.893e+04 / 82
p0 474.2 ± 0.3782
700
650
600
550
500
450
400
350

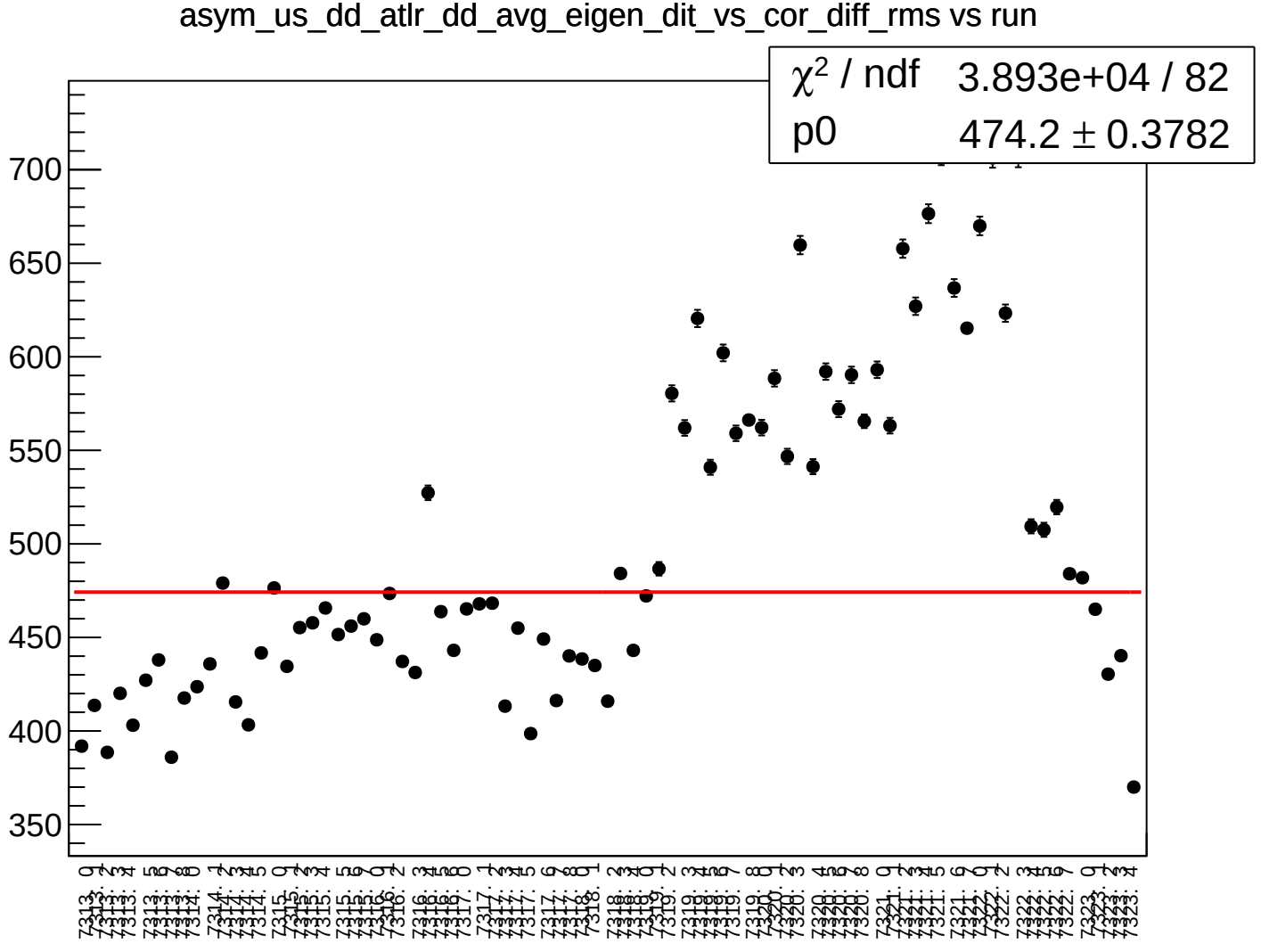

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.1 / 82
p0 −8.799e−07 ± 1.706e−06
pull
Entries 83
Mean 1114
Std Dev 0

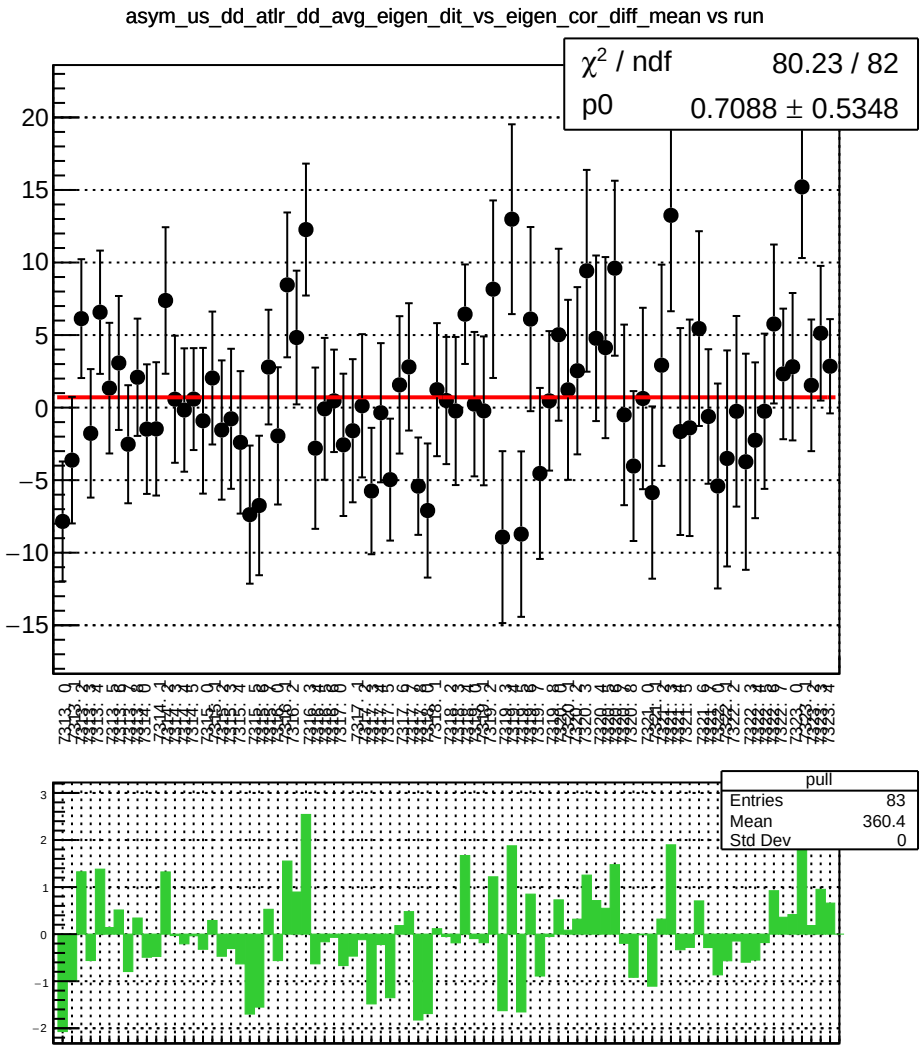

pull1D
Entries 83
Mean 0.001084
Std Dev 0.9449

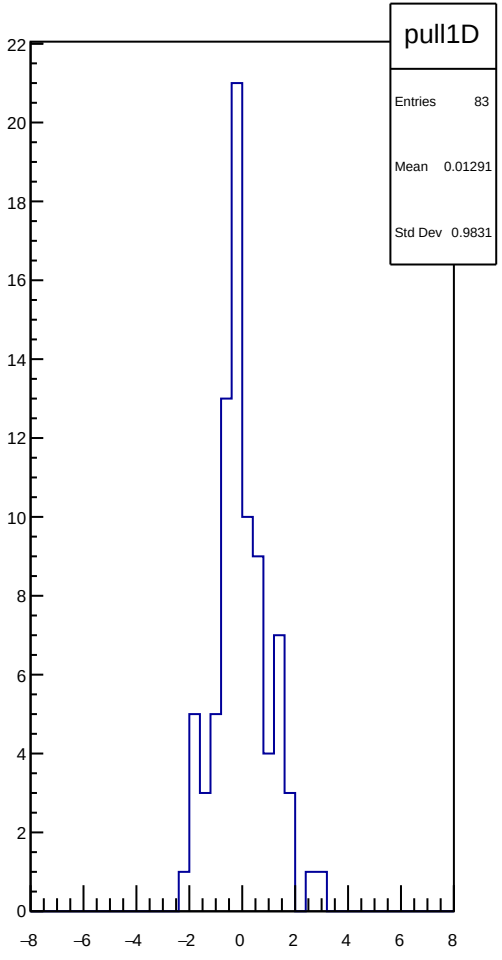

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.77e+04 / 82
p0 0.001523 ± 1.207e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

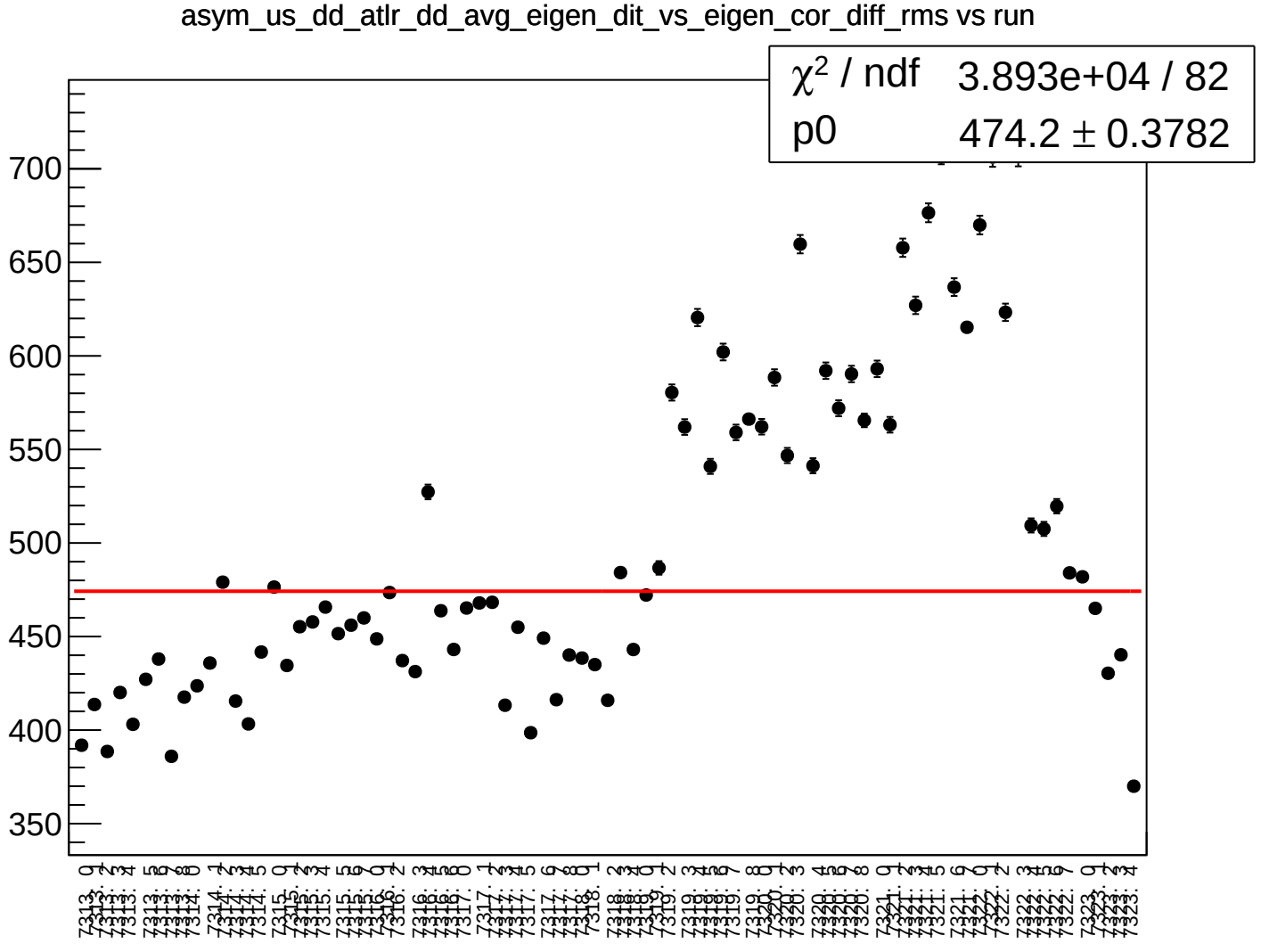

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.23 / 82
p0 0.7088 ± 0.5348
pull
Entries 83
Mean 360.4
Std Dev 0

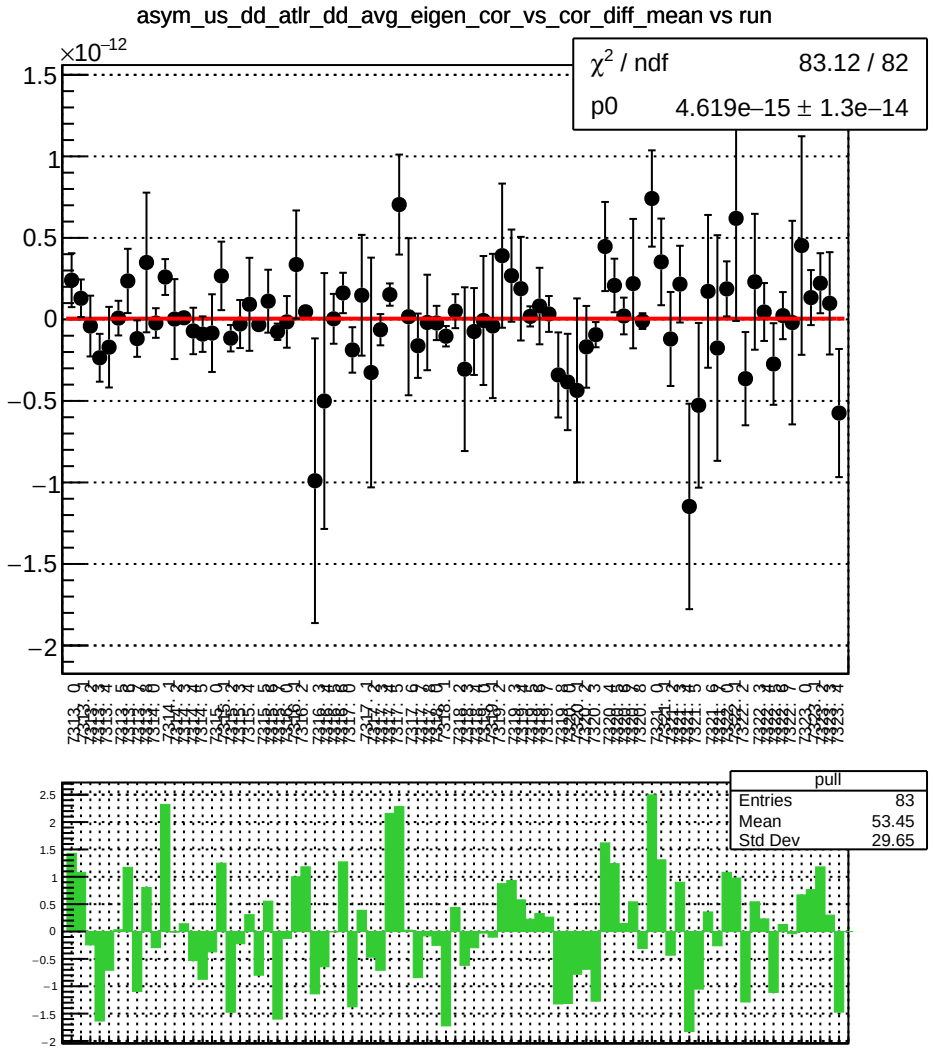

pull1D
Entries 83
Mean 0.01291
Std Dev 0.9831

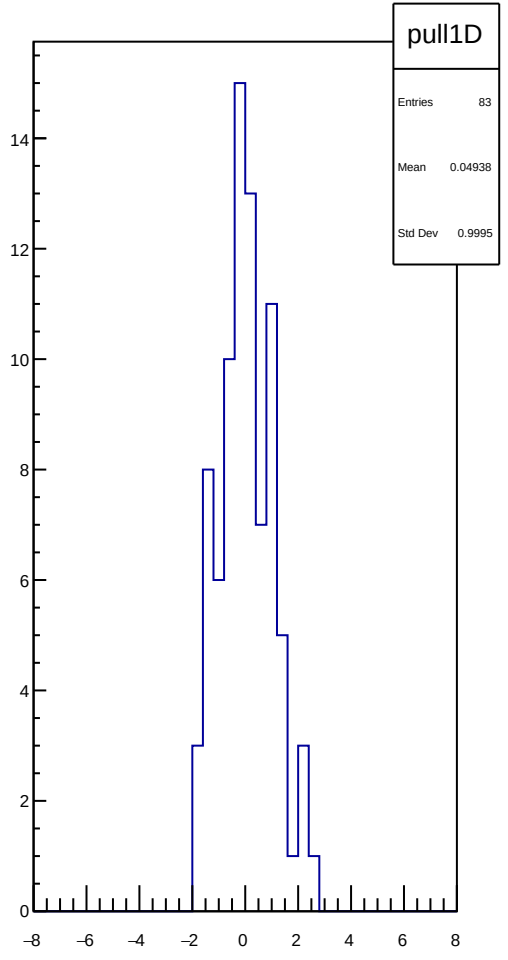

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.893e+04 / 82
p0 474.2 ± 0.3782
700
650
600
550
500
450
400
350

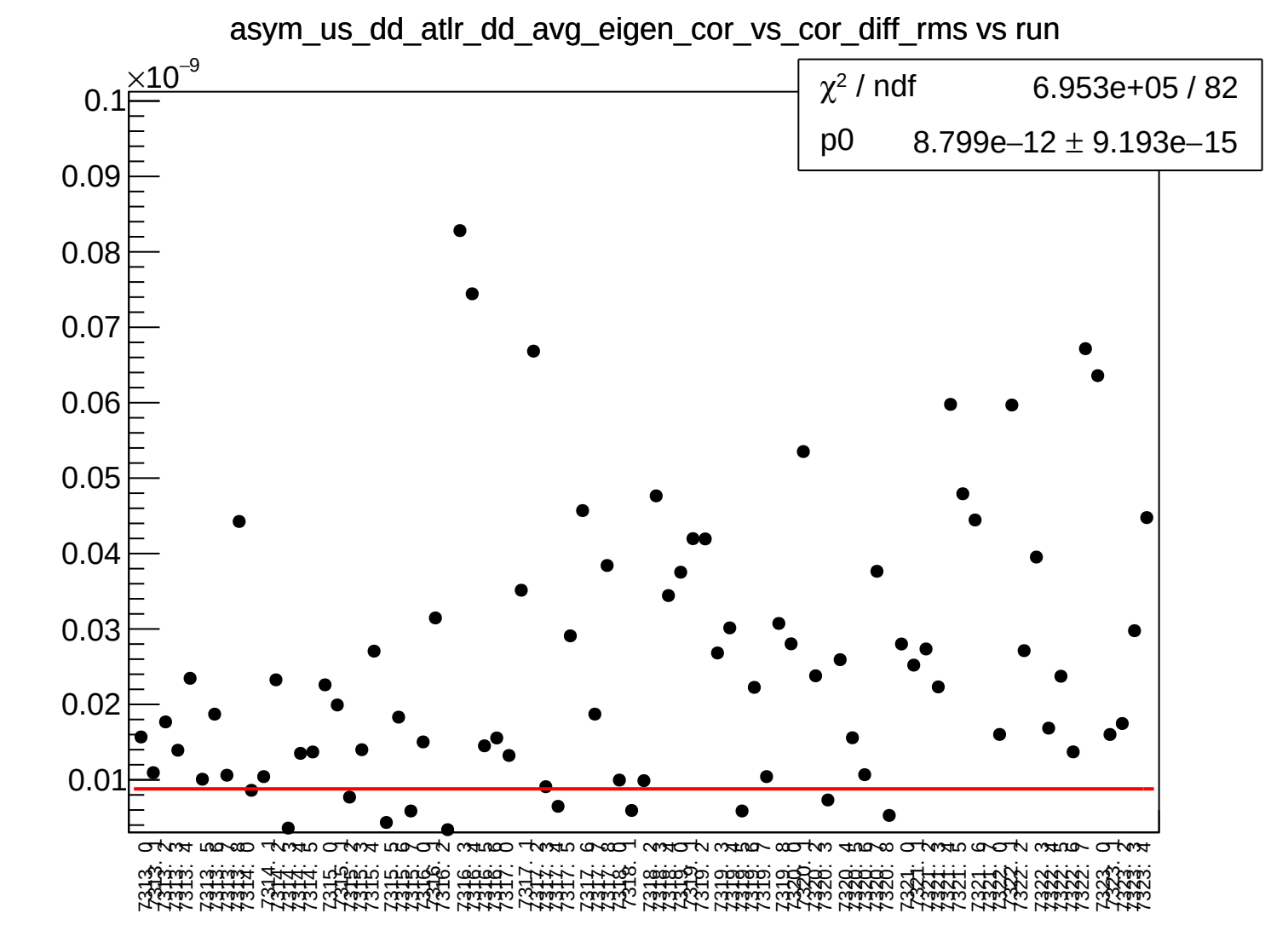

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.23 / 82
p0 0.7088 ± 0.5348
pull
Entries 83
Mean 360.4
Std Dev 0

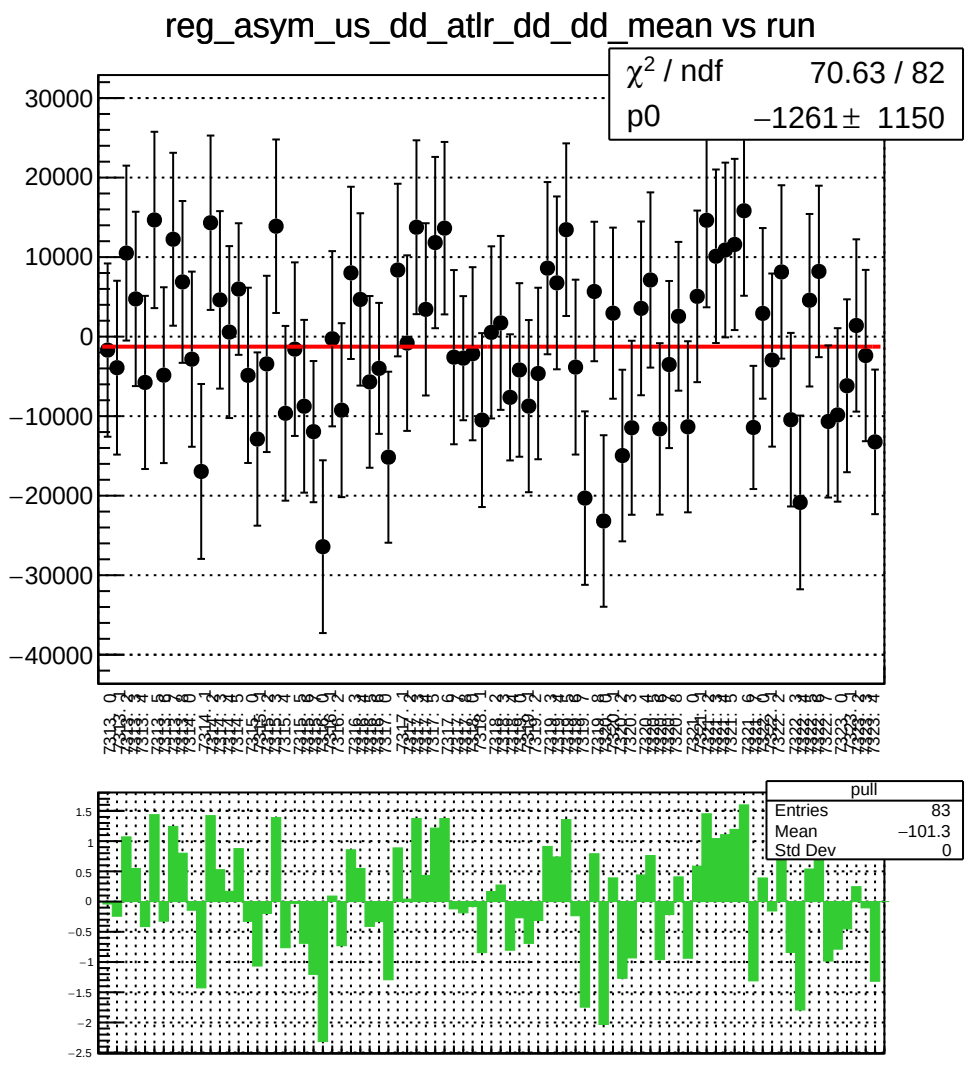

pull1D
Entries 83
Mean 0.01291
Std Dev 0.9831

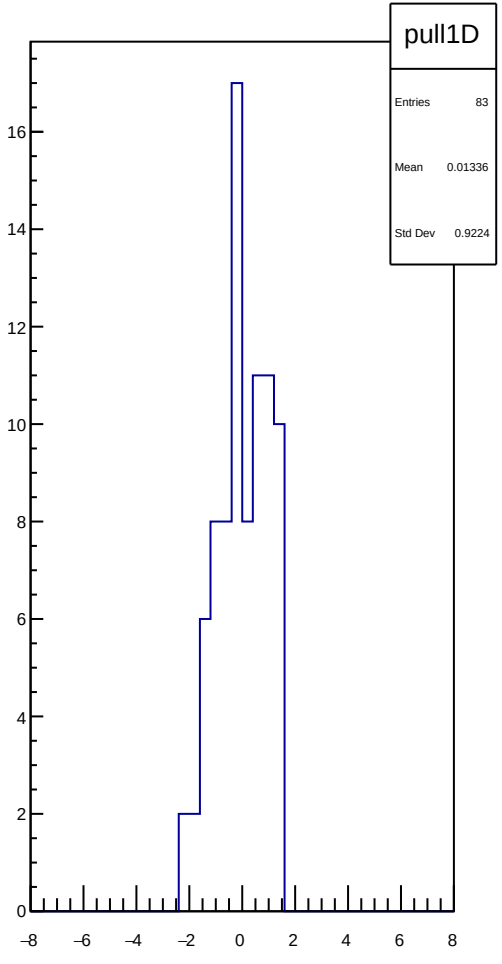

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.893e+04 / 82
p0 474.2 ± 0.3782
700
650
600
550
500
450
400
350

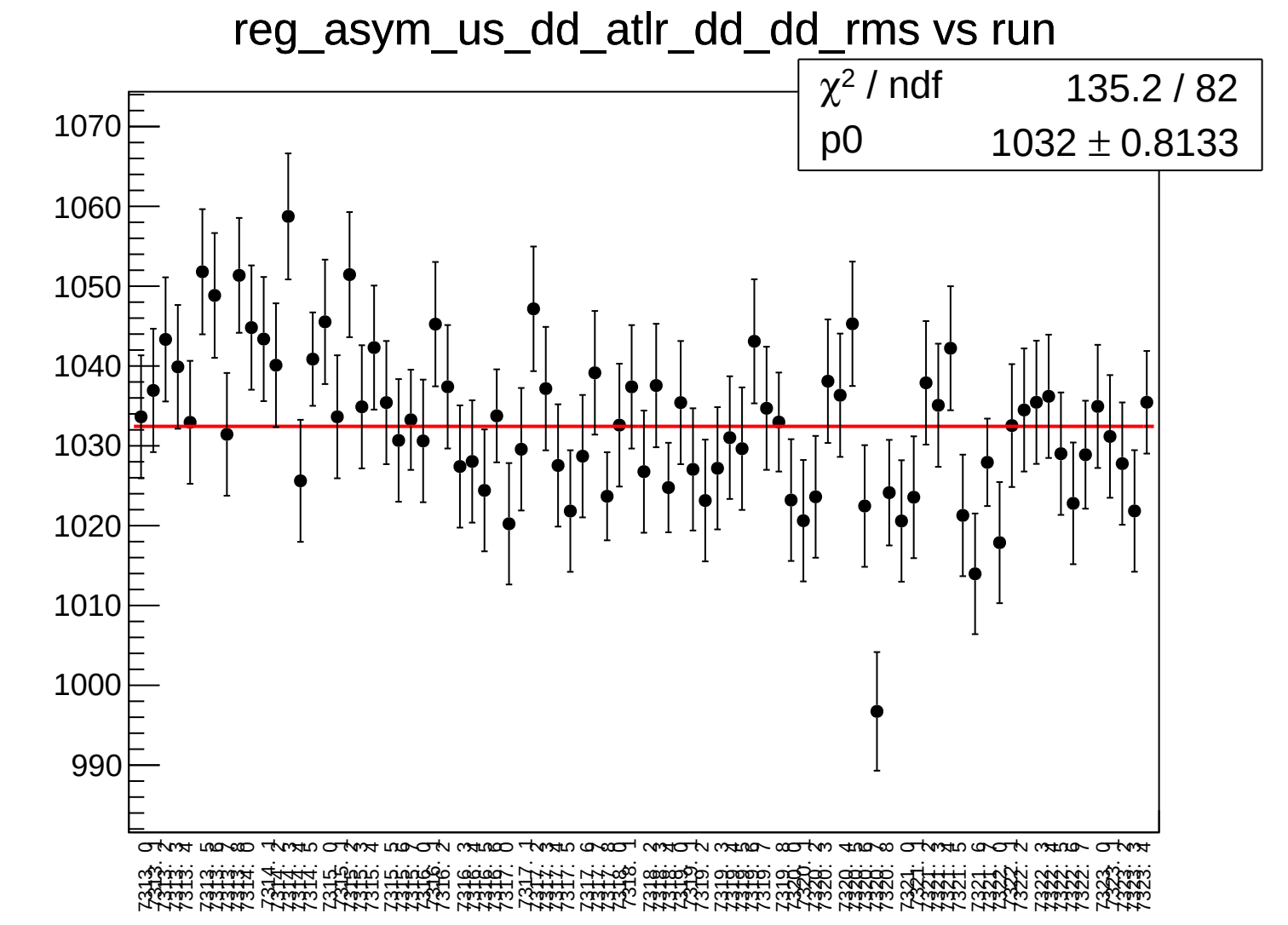

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.12 / 82
p0 4.619e−15 ± 1.3e−14
pull
Entries 83
Mean 53.45
Std Dev 29.65

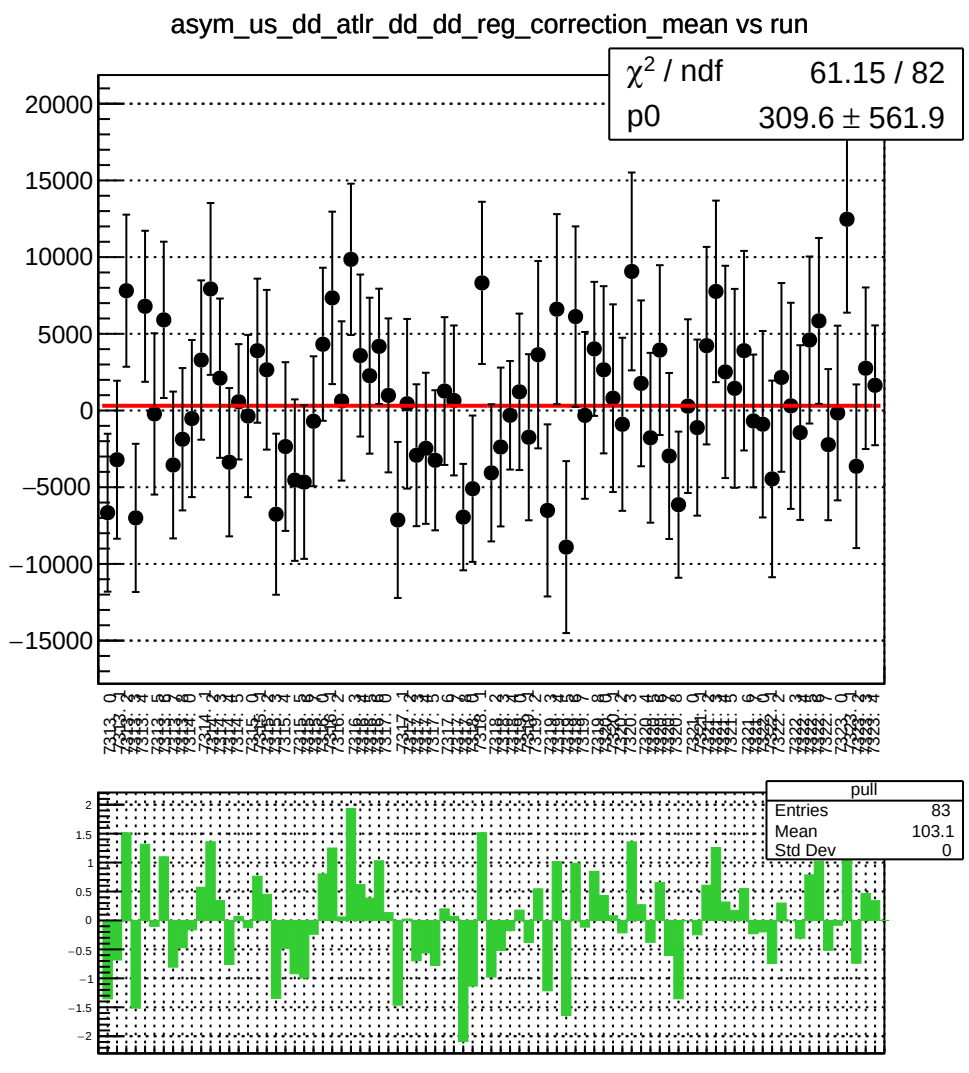

pull1D
Entries 83
Mean 0.04938
Std Dev 0.9995

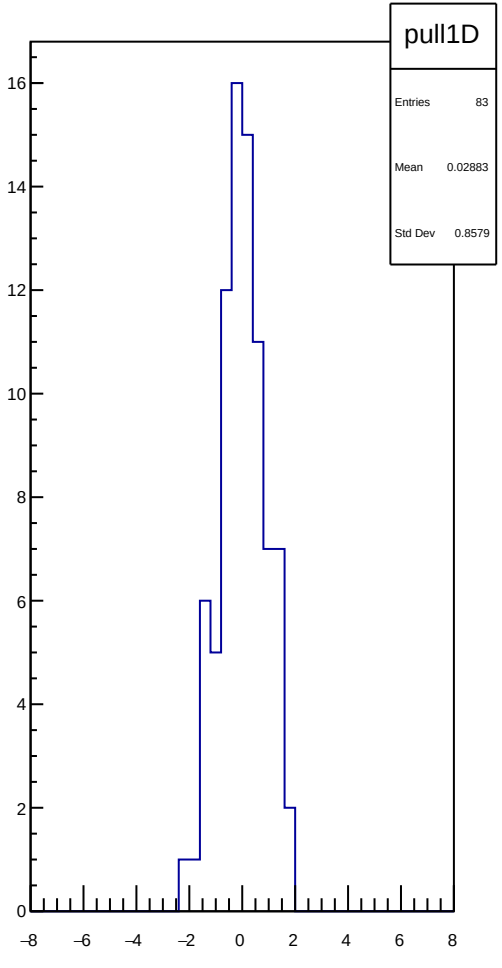

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.953e+05 / 82
p0 8.799e−12 ± 9.193e−15
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

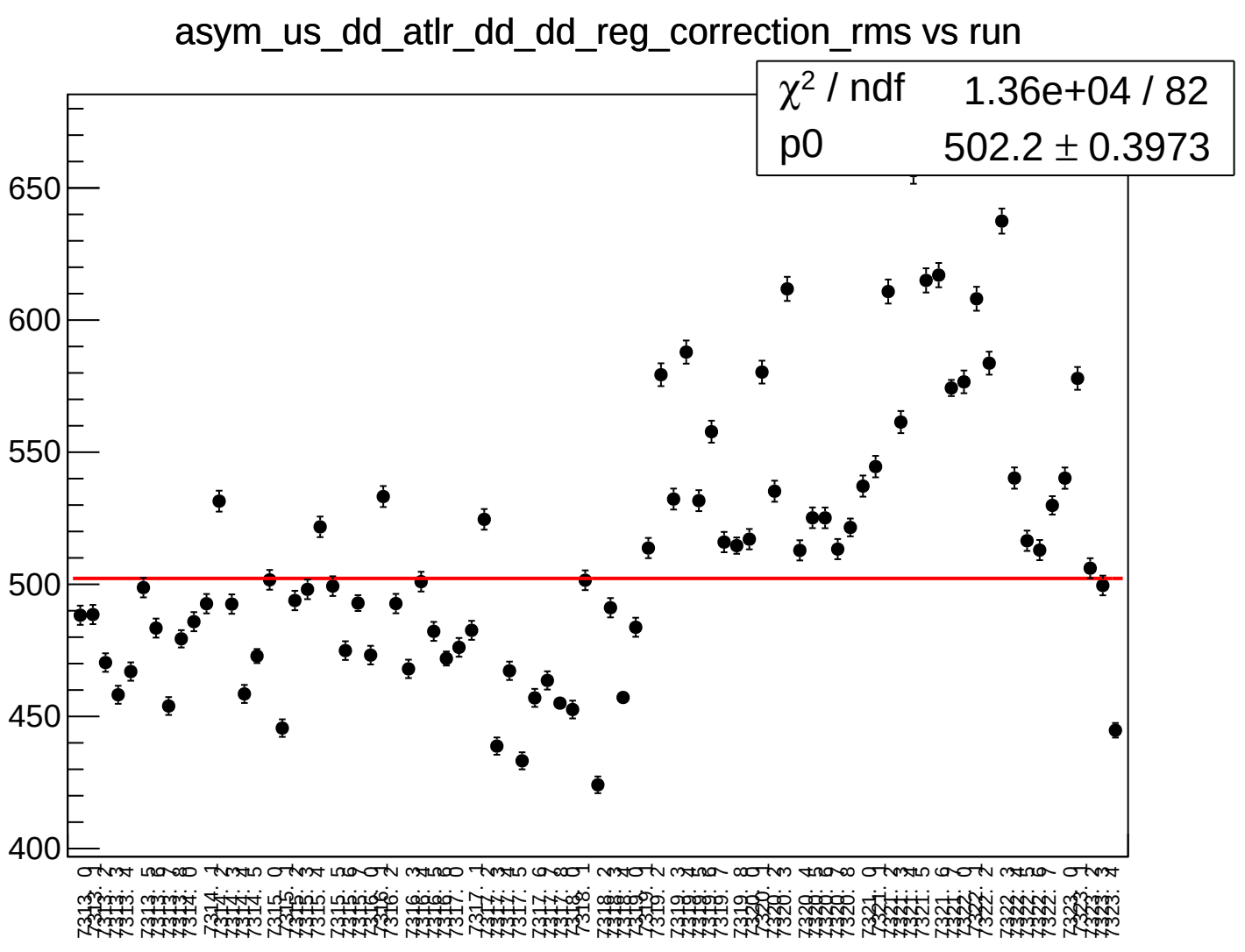

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 70.63 / 82
p0 −1261 ± 1150
pull
Entries 83
Mean −101.3
Std Dev 0

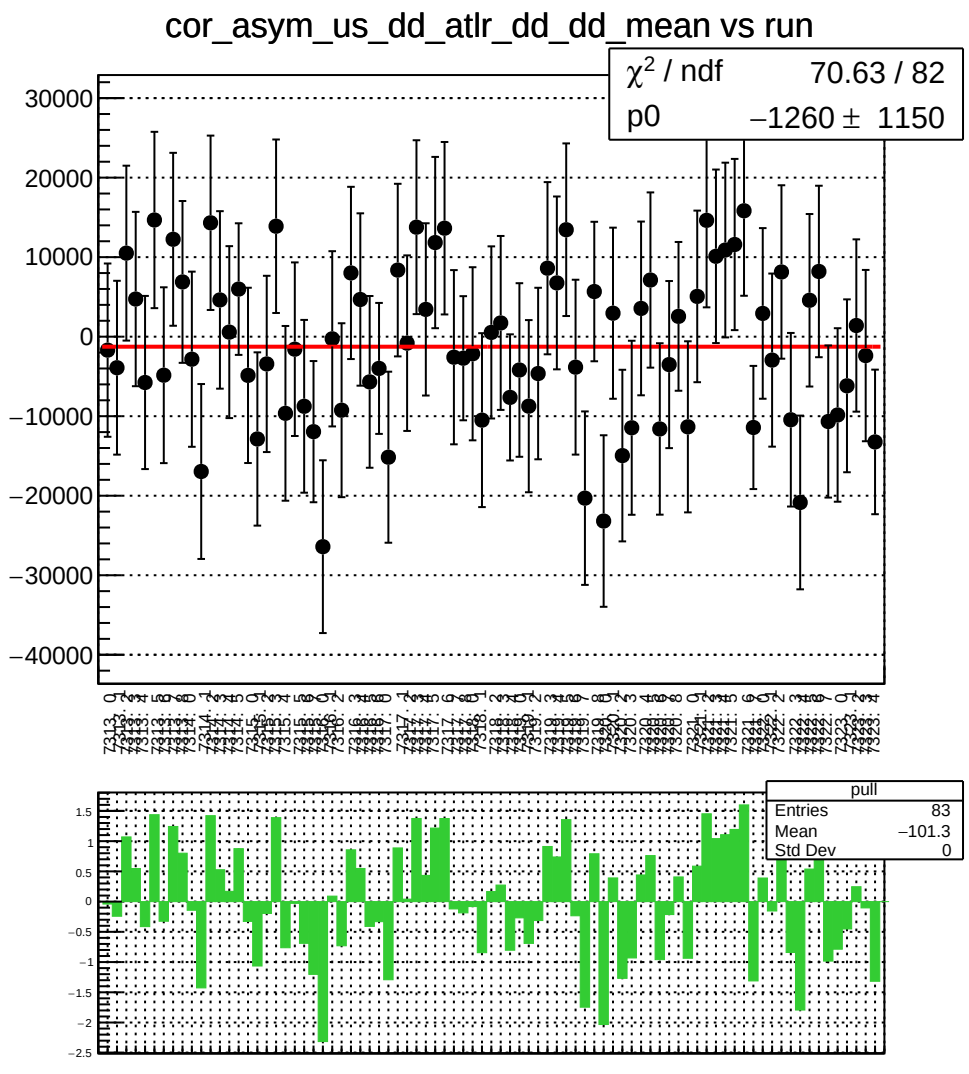

pull1D
Entries 83
Mean 0.01336
Std Dev 0.9224

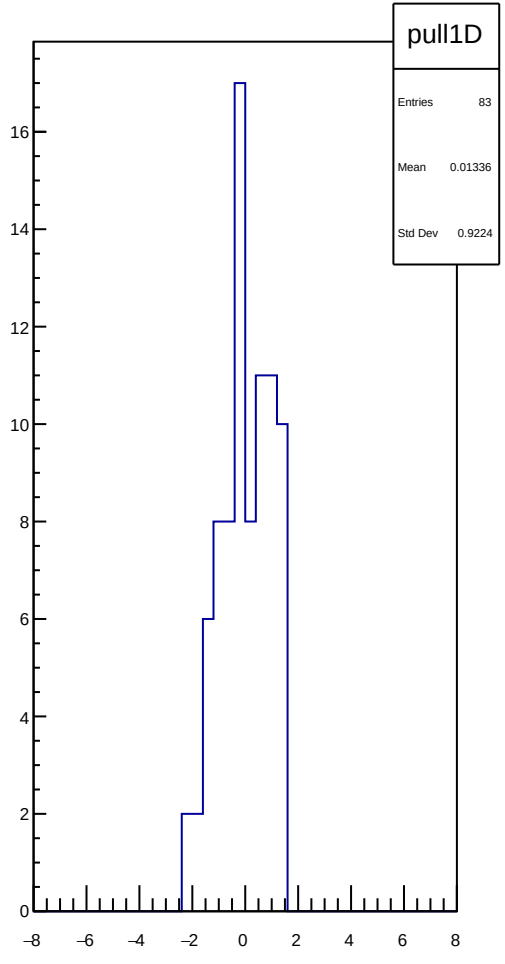

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 135.2 / 82
p0 1032 ± 0.8133
1070
1060
1050
1040
1030
1020
1010
1000
990

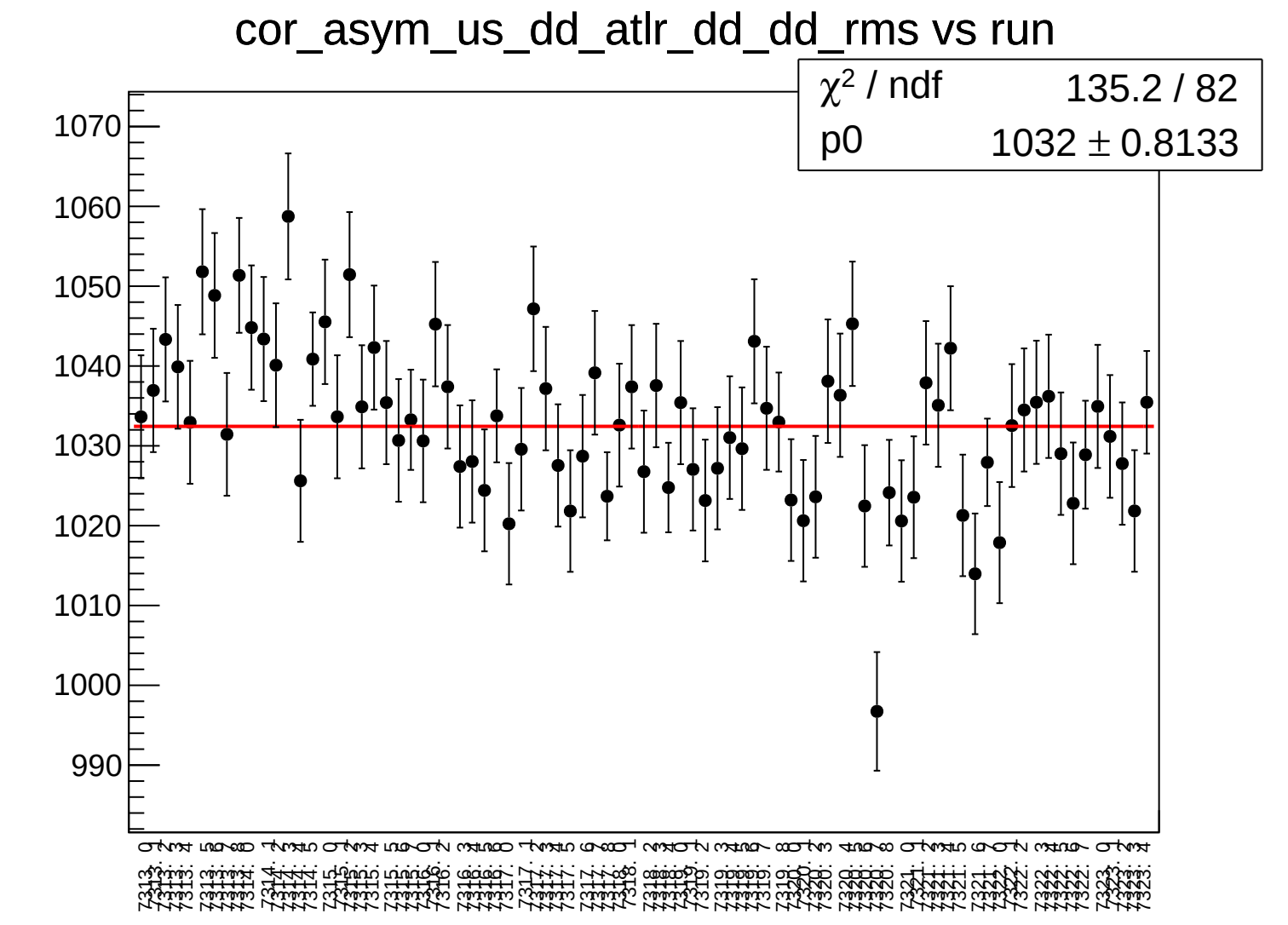

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 61.15 / 82
p0 309.6 ± 561.9
pull
Entries 83
Mean 103.1
Std Dev 0

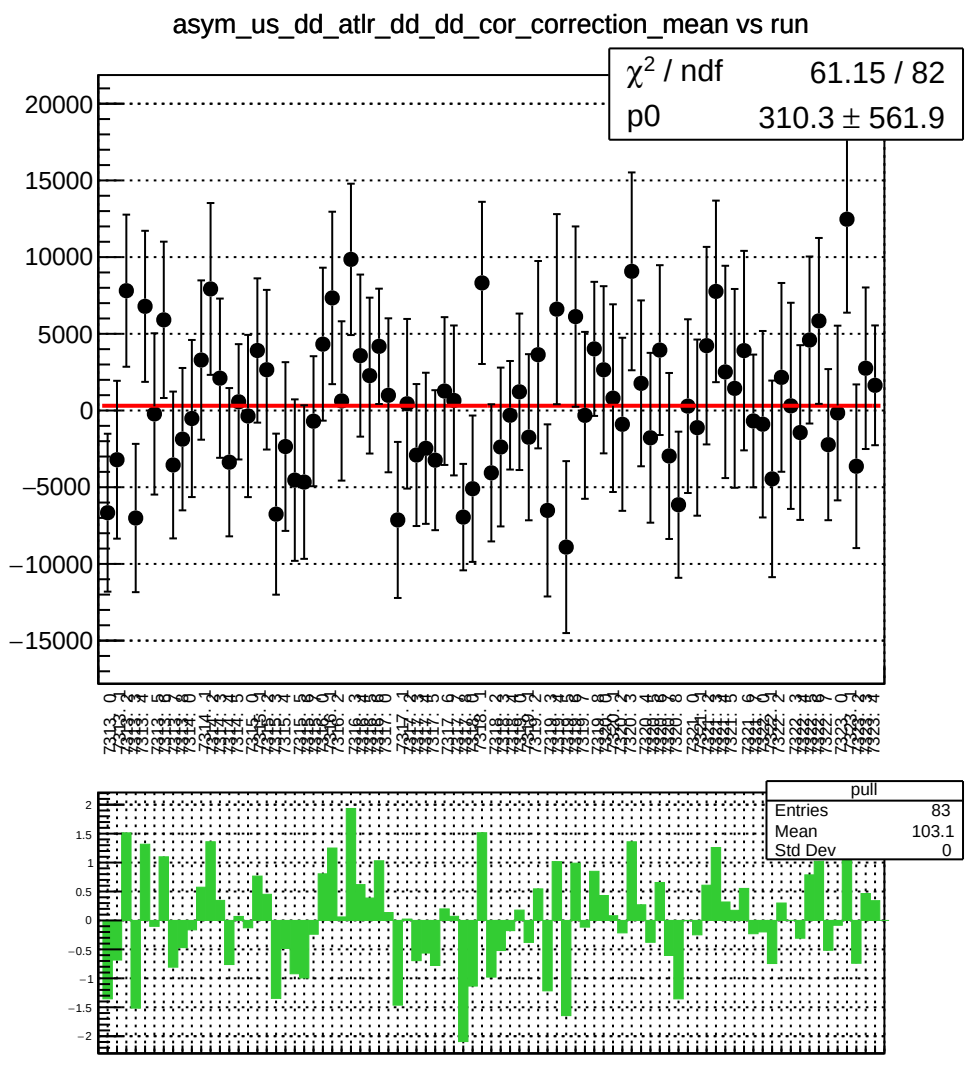

pull1D
Entries 83
Mean 0.02883
Std Dev 0.8579

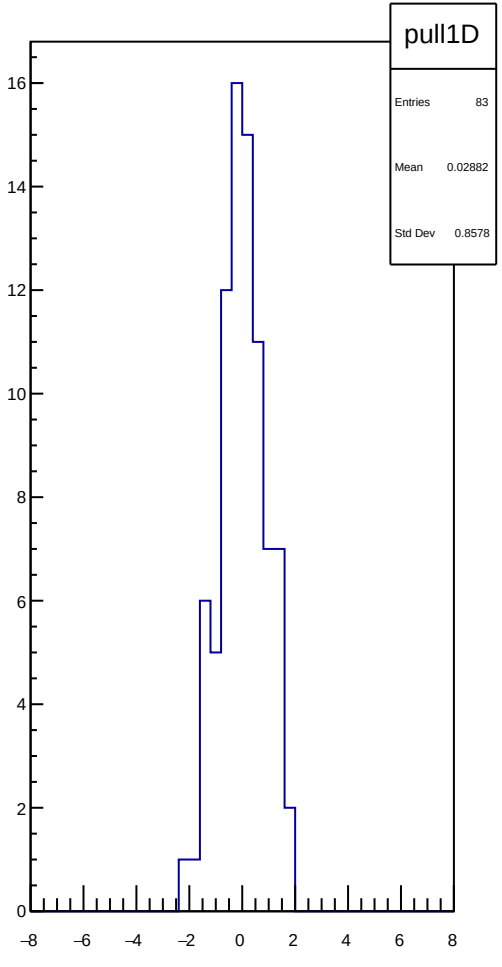

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.36e+04 / 82
p0 502.2 ± 0.3973
650
600
550
500
450
400

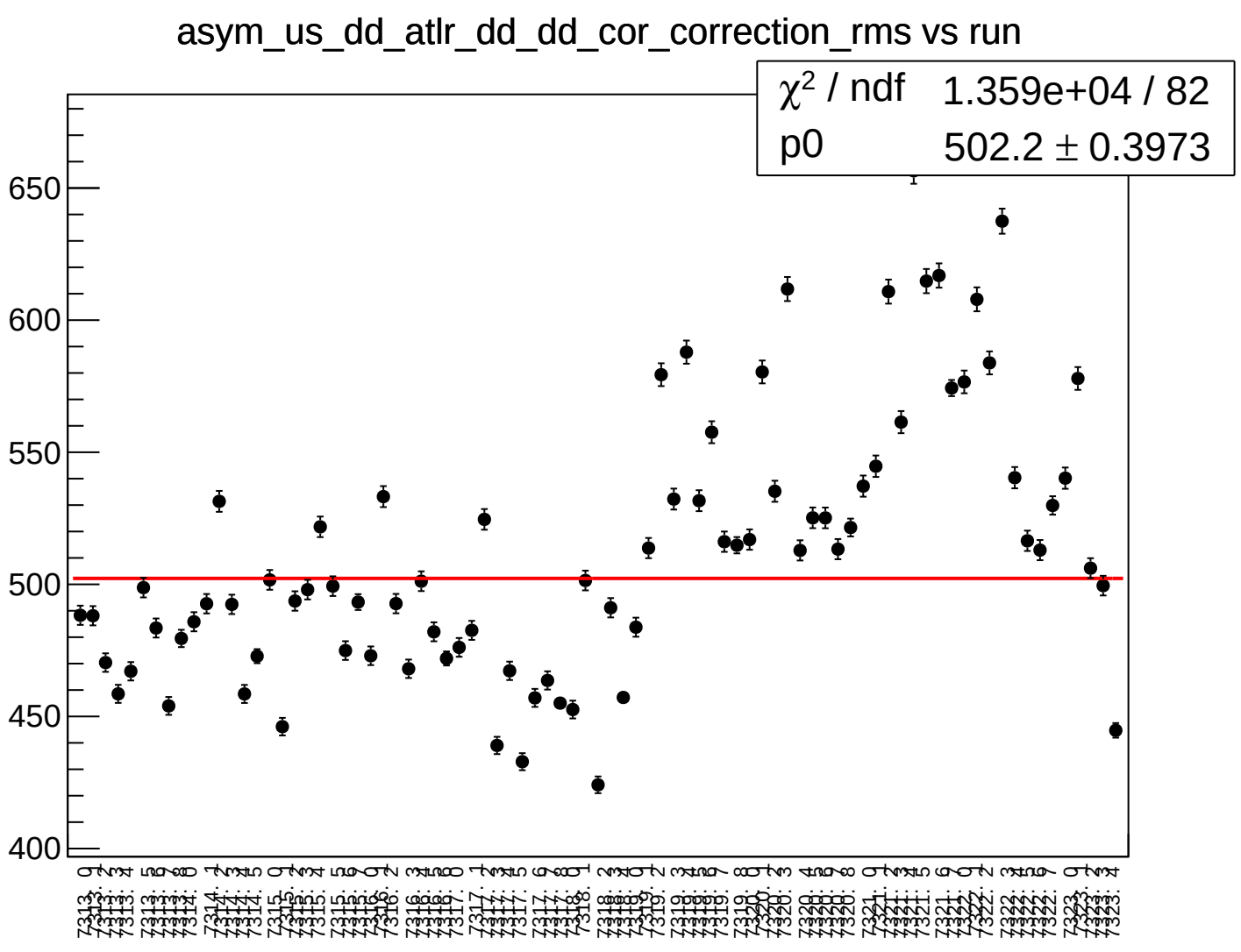

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 70.63 / 82
p0 −1260 ± 1150
pull
Entries 83
Mean −101.3
Std Dev 0

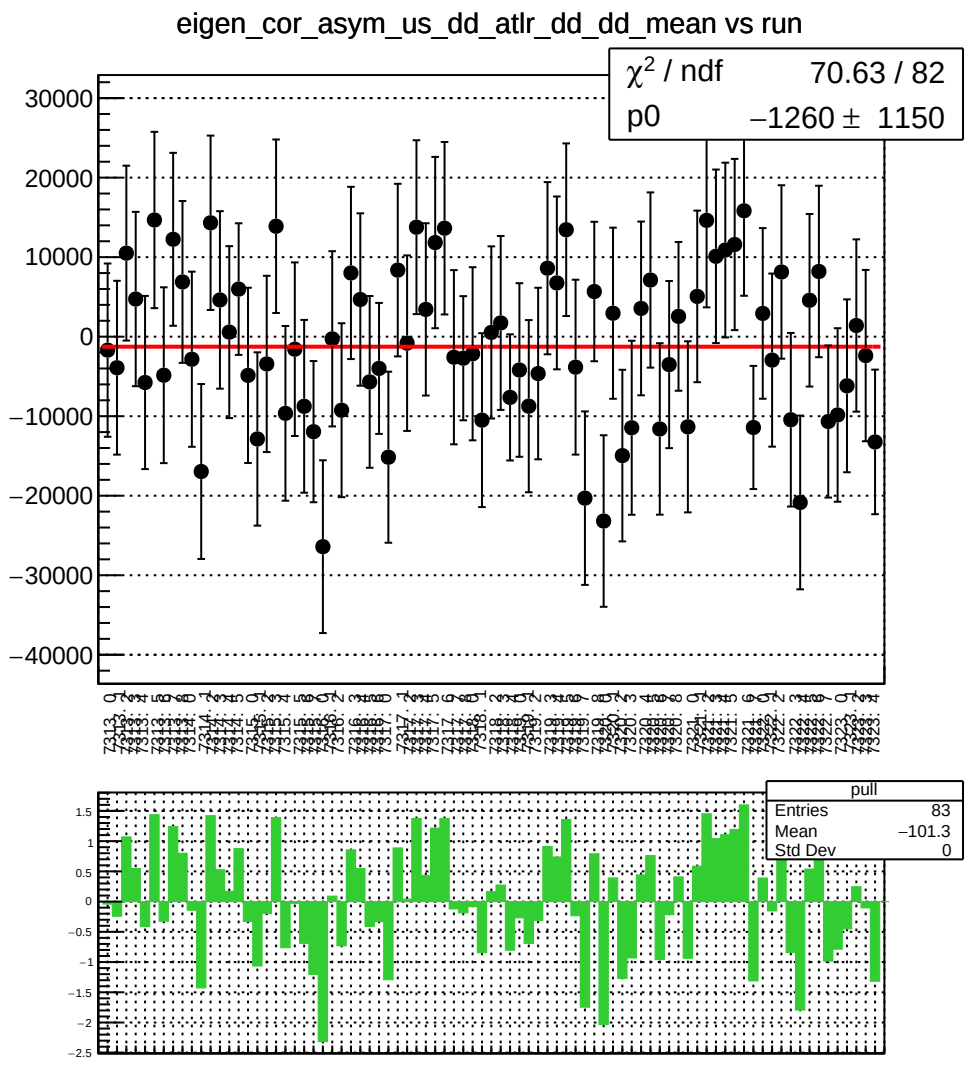

pull1D
Entries 83
Mean 0.01336
Std Dev 0.9224

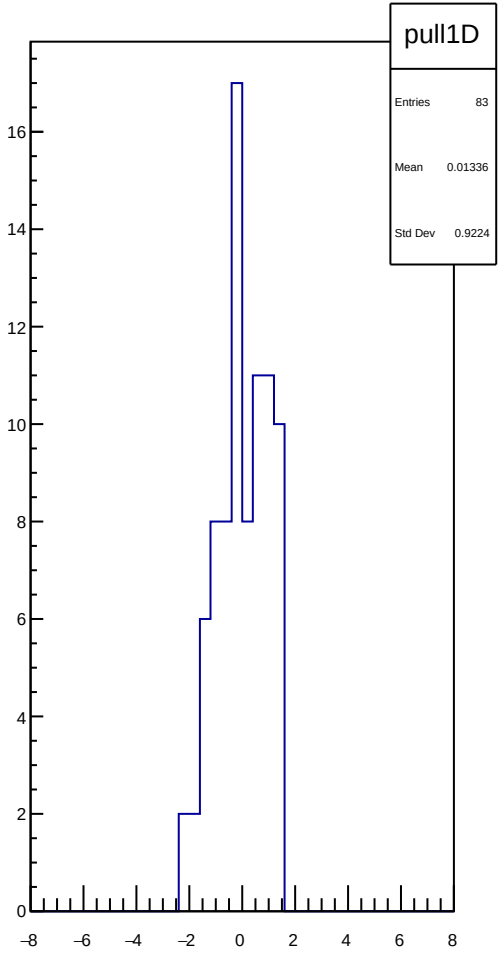

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 135.2 / 82
p0 1032 ± 0.8133
1070
1060
1050
1040
1030
1020
1010
1000
990

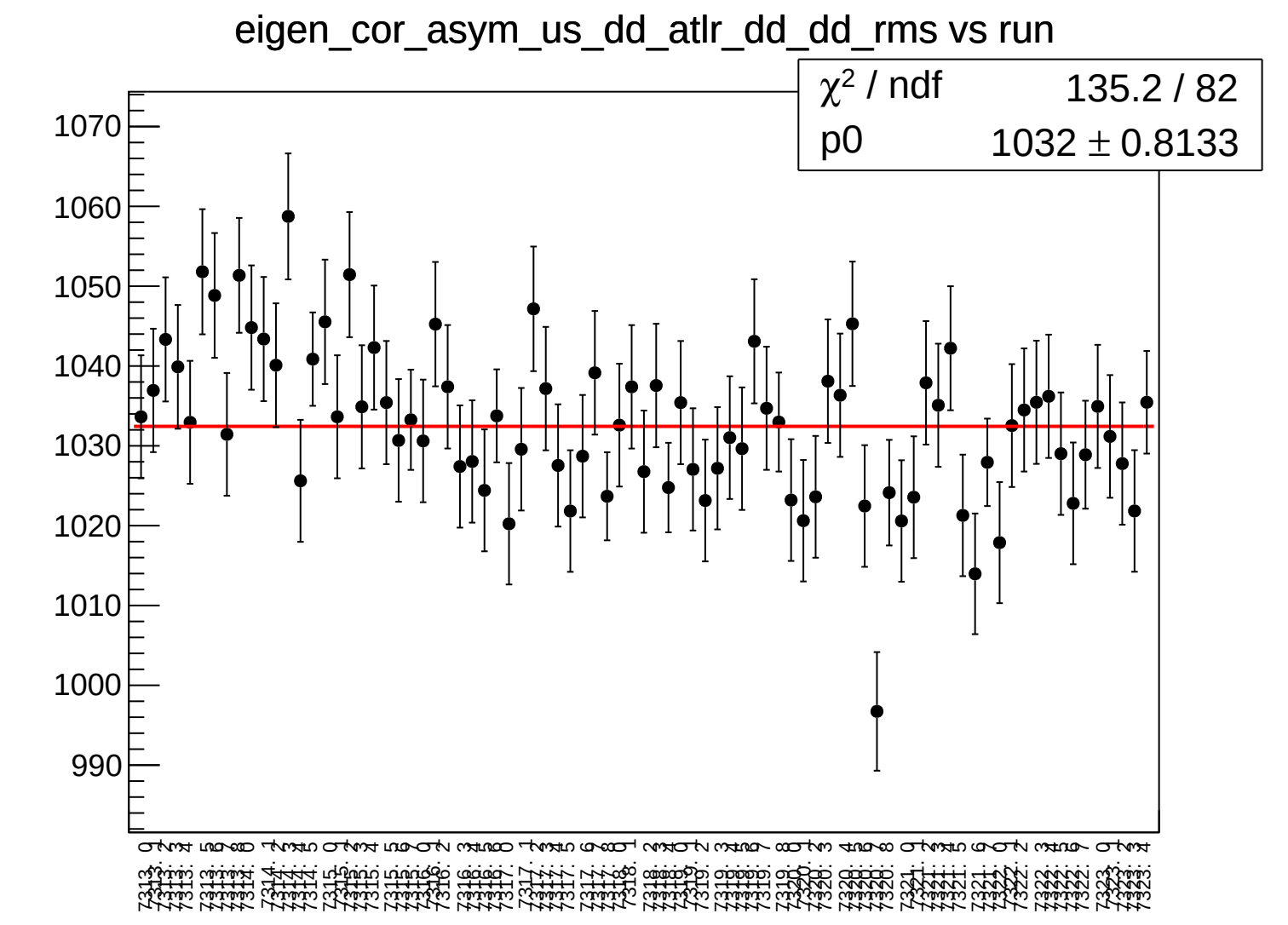

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 61.15 / 82
p0 310.3 ± 561.9
pull
Entries 83
Mean 103.1
Std Dev 0

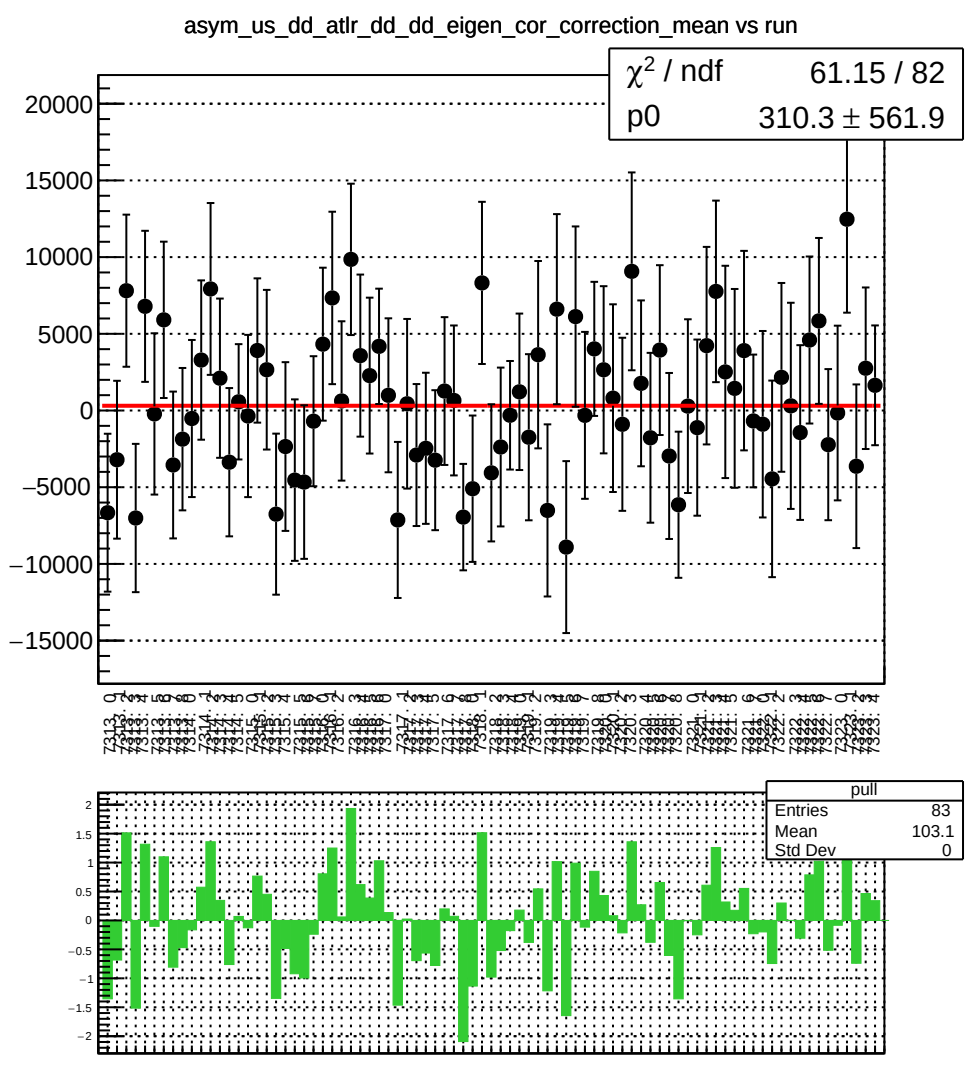

pull1D
Entries 83
Mean 0.02882
Std Dev 0.8578

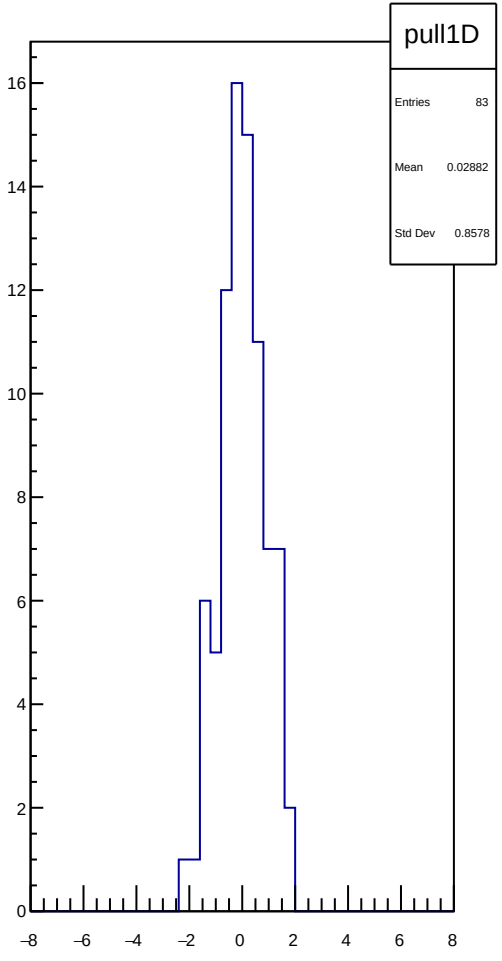

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 82
p0 502.2 ± 0.3973
650
600
550
500
450
400

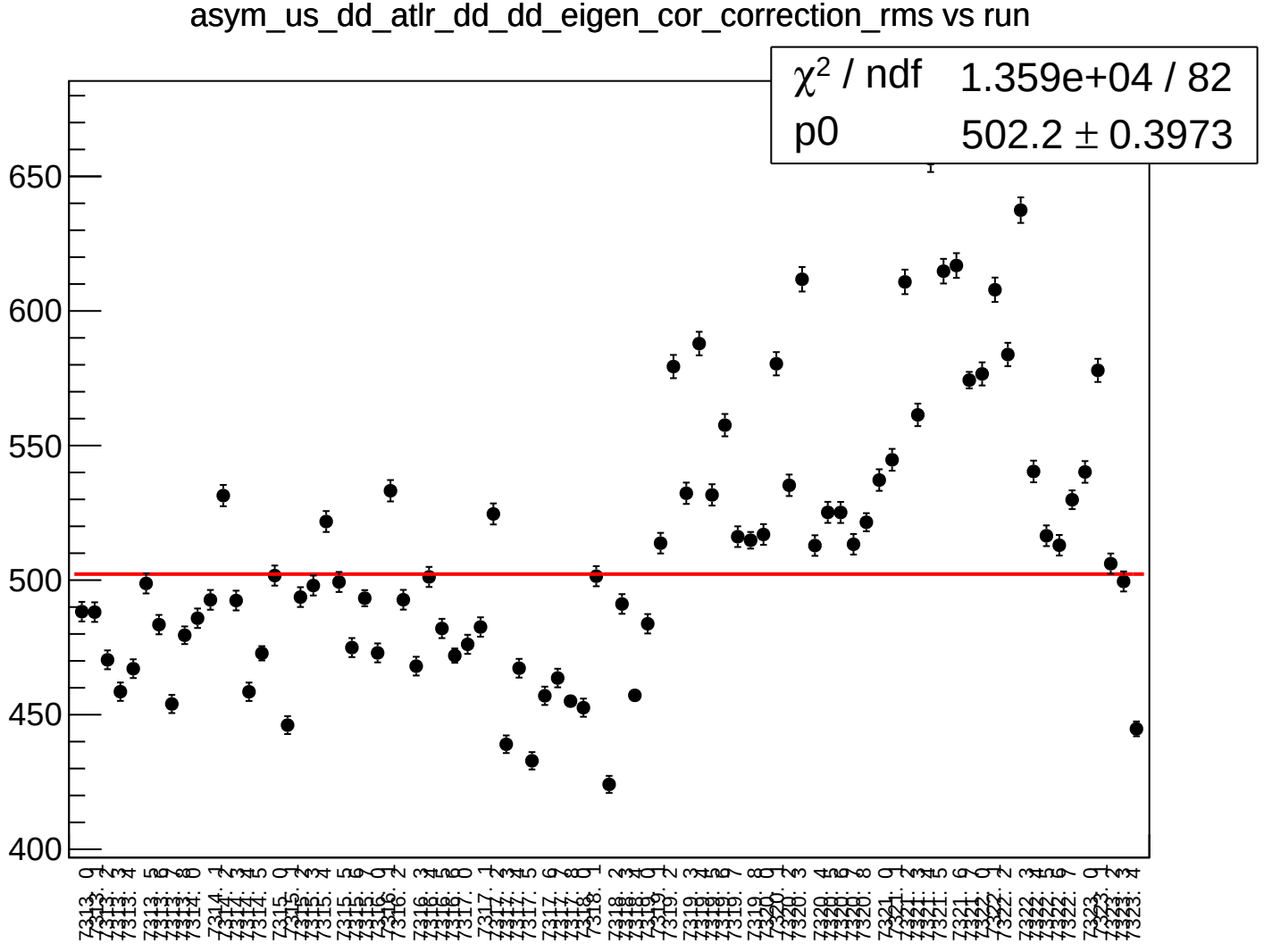

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 70.63 / 82
p0 −1260 ± 1150
pull
Entries 83
Mean −101.3
Std Dev 0

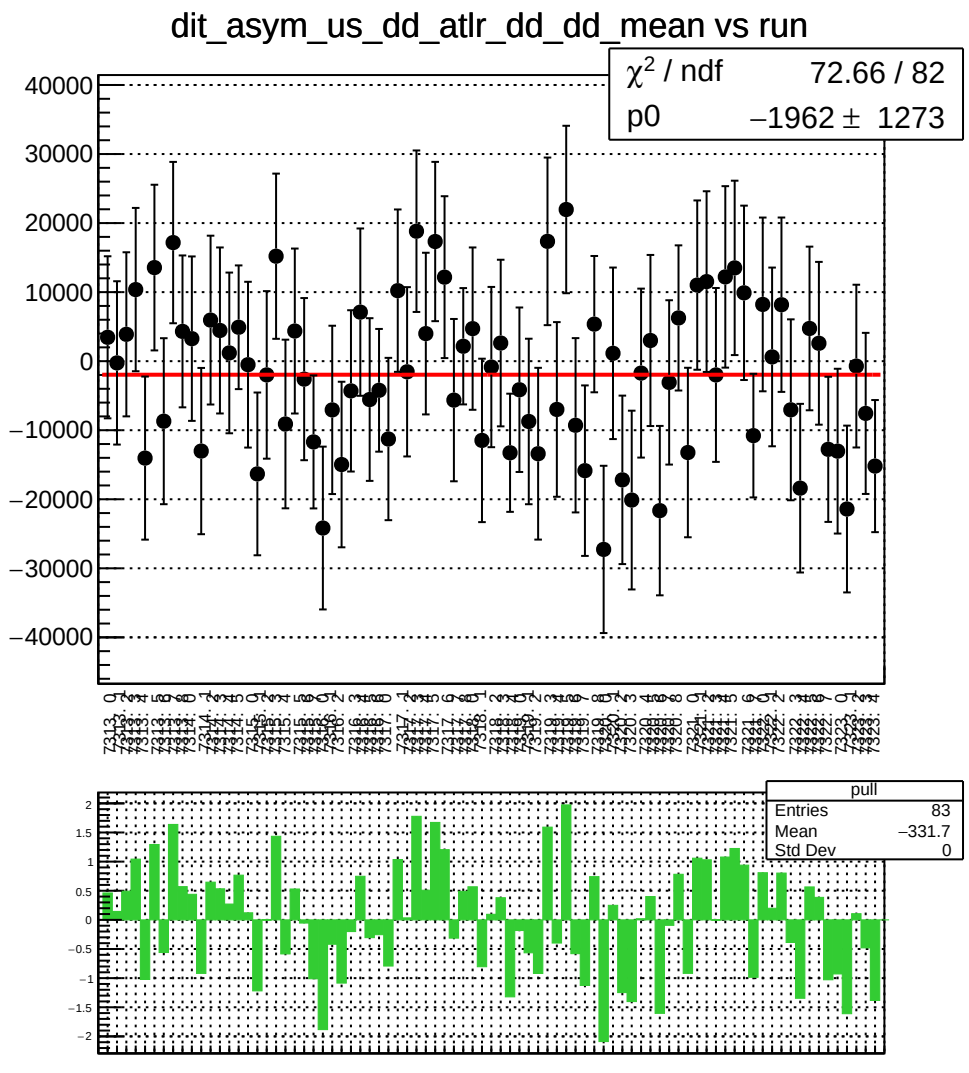

pull1D
Entries 83
Mean 0.01336
Std Dev 0.9224

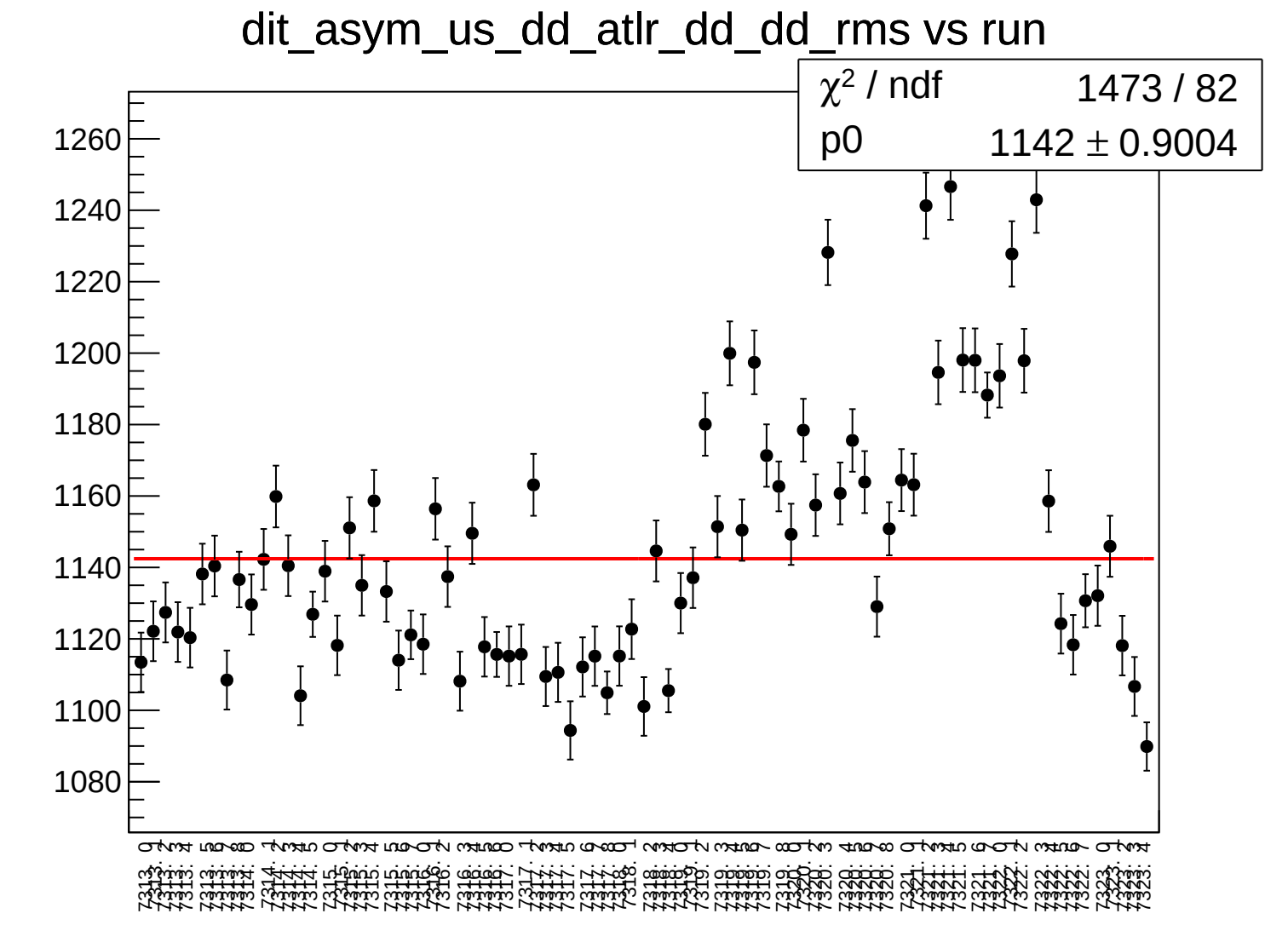

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 135.2 / 82
p0 1032 ± 0.8133
1070
1060
1050
1040
1030
1020
1010
1000
990

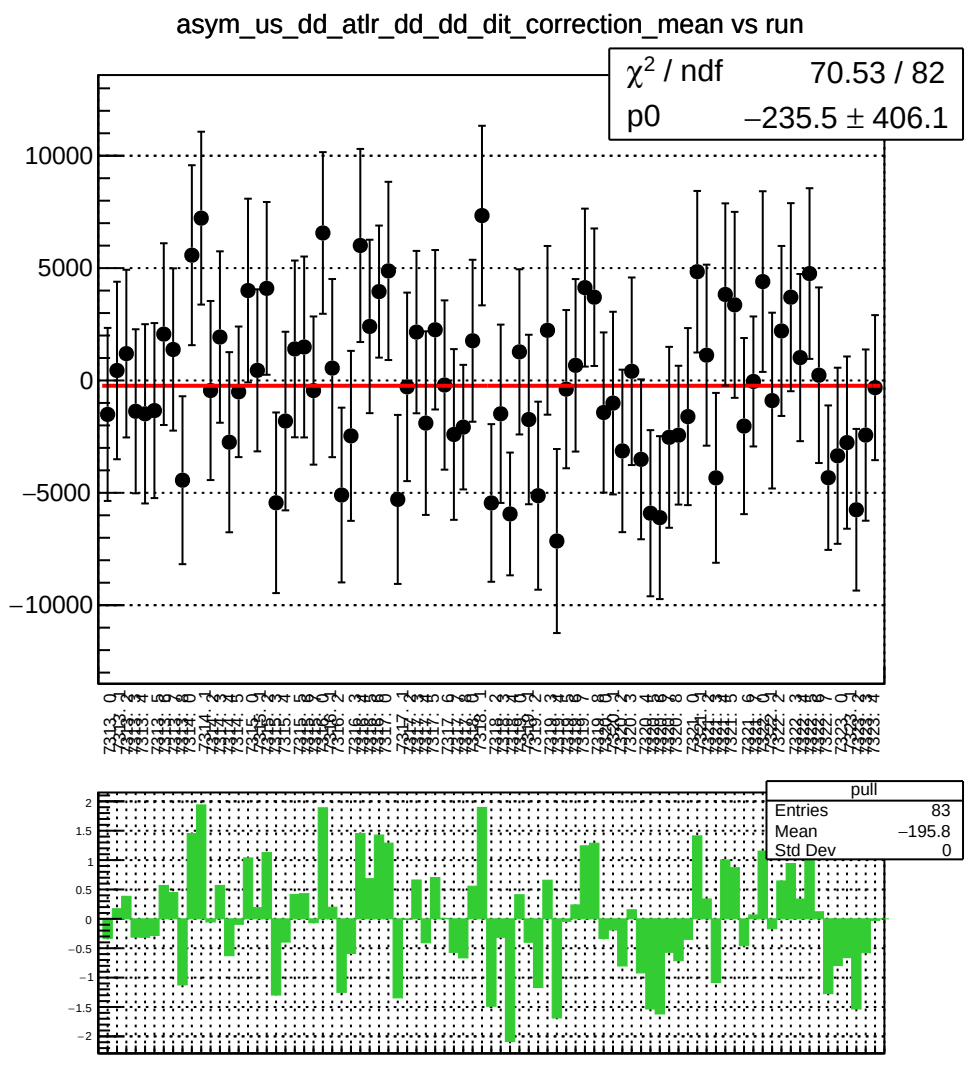

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.15 / 82
p0 310.3 ± 561.9
pull
Entries 83
Mean 103.1
Std Dev 0

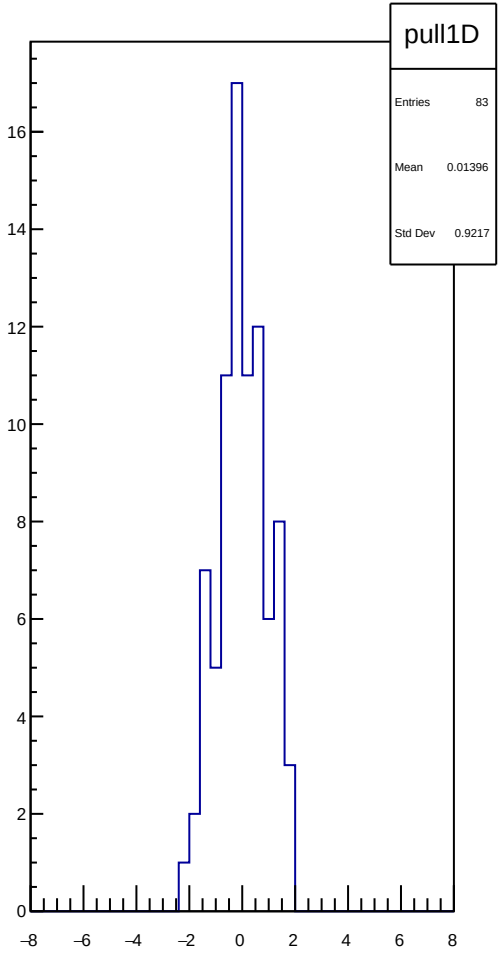

pull1D
Entries 83
Mean 0.02882
Std Dev 0.8578

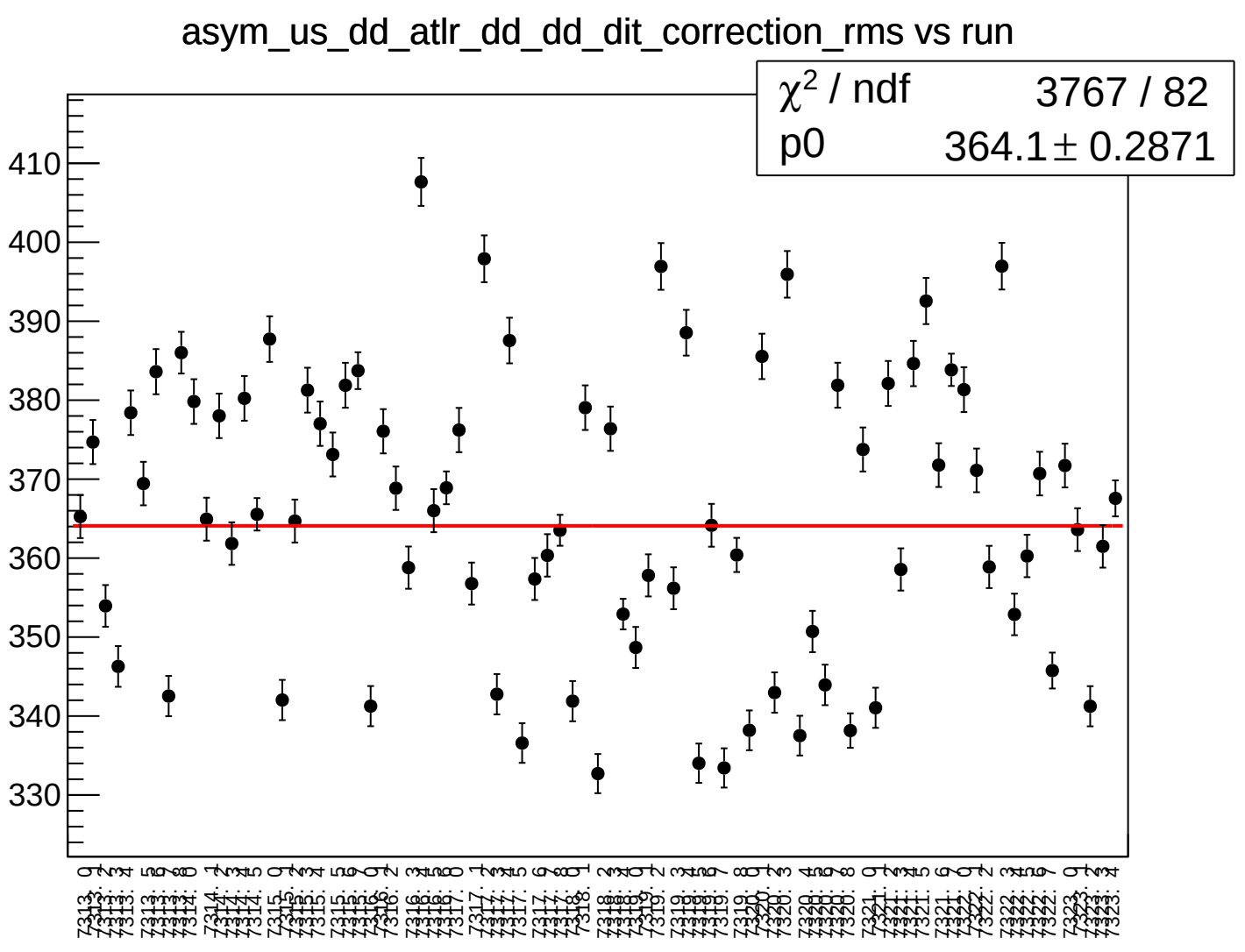

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 82
p0 502.2 ± 0.3973
650
600
550
500
450
400

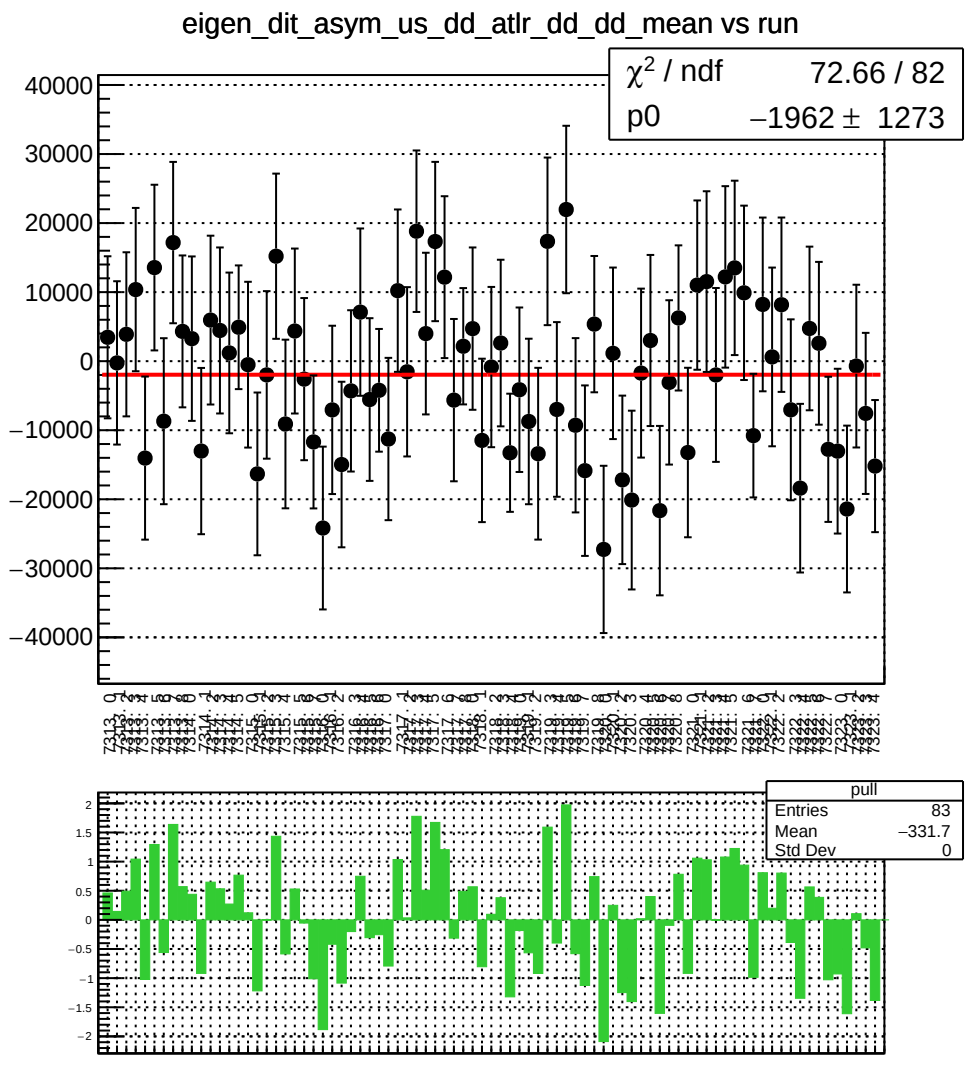

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 72.66 / 82
p0 −1962 ± 1273
pull
Entries 83
Mean −331.7
Std Dev 0
pull1D
Entries 83
Mean 0.01005
Std Dev 0.9356

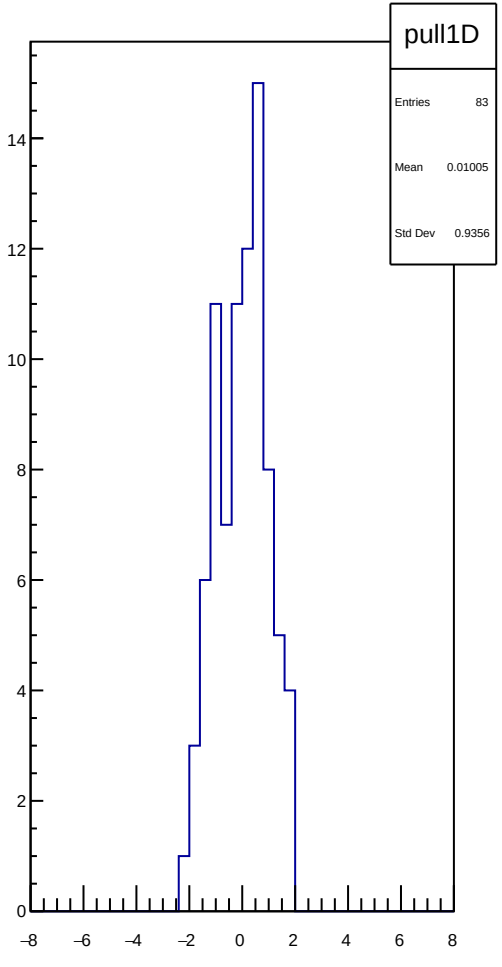

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1473 / 82
p0 1142 ± 0.9004
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

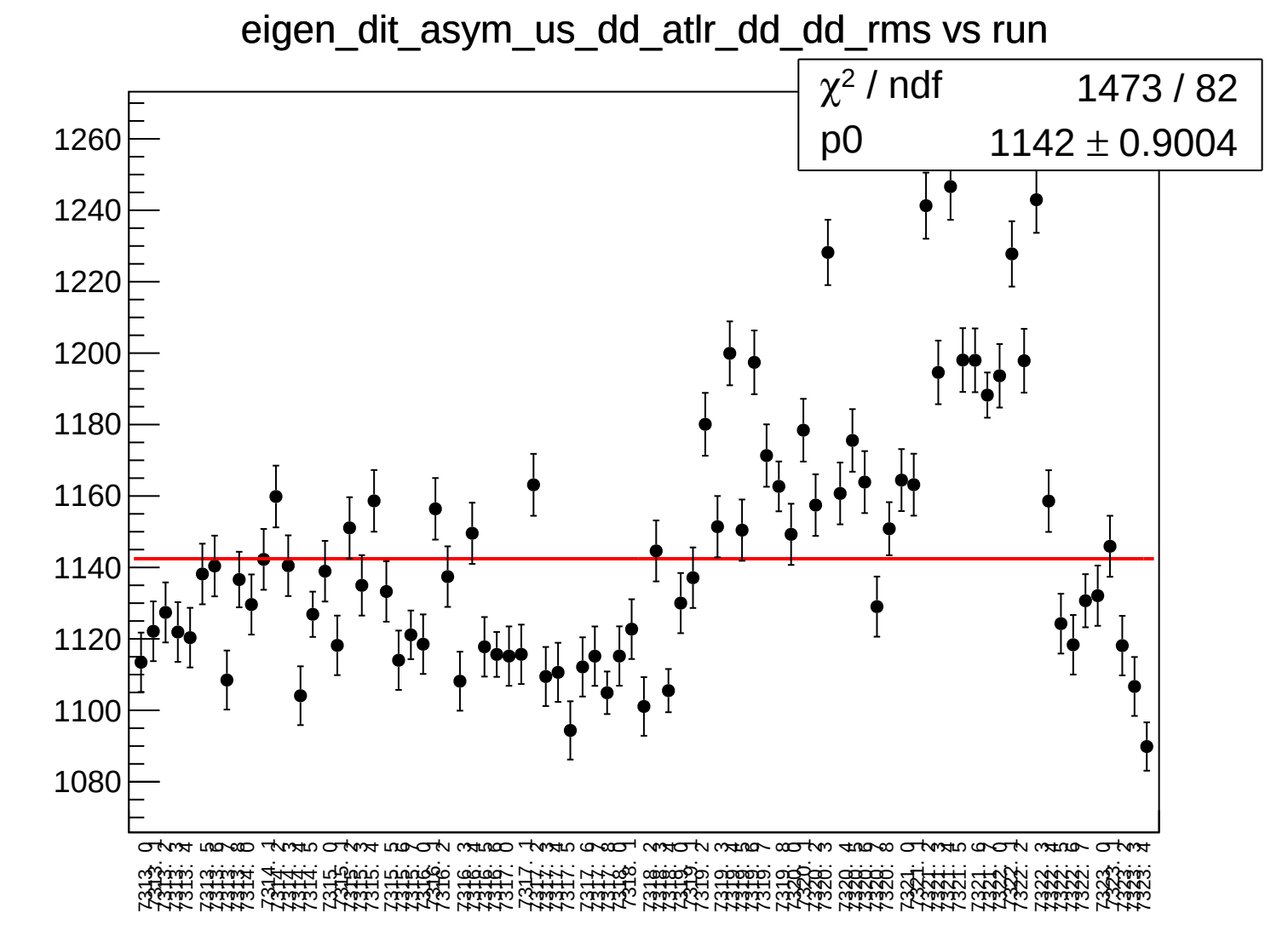

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.53 / 82
p0 −235.5 ± 406.1
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −195.8
Std Dev 0

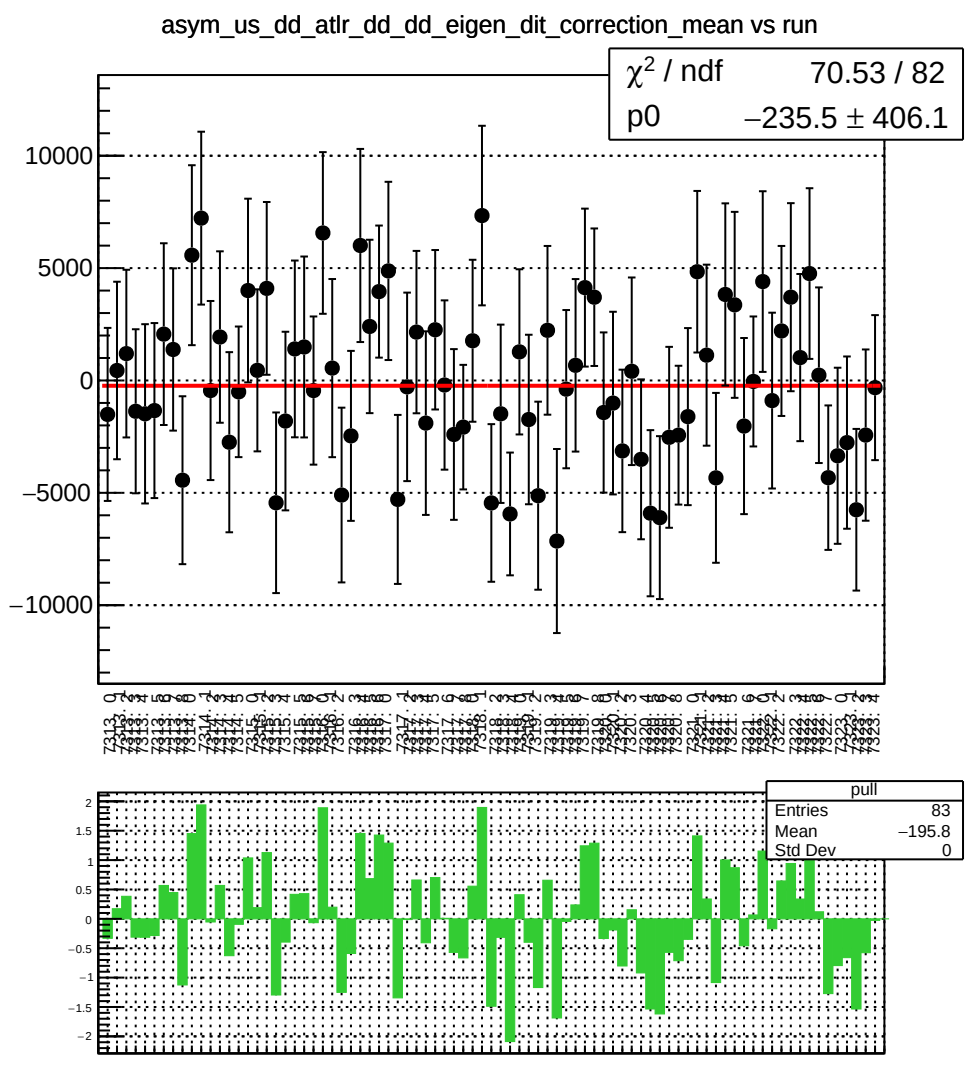

pull1D
Entries 83
Mean 0.01396
Std Dev 0.9217

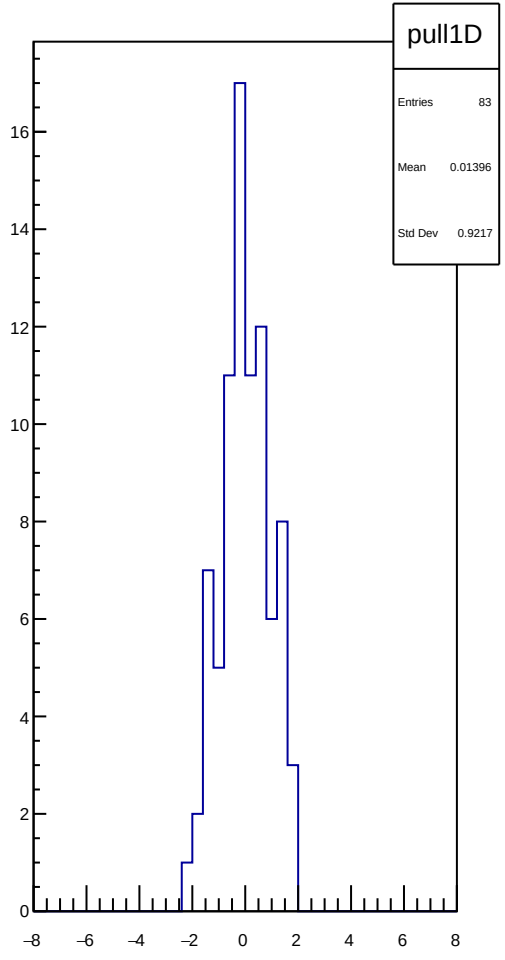

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 3767 / 82
p0 364.1 ± 0.2871
410
400
390
380
370
360
350
340
330

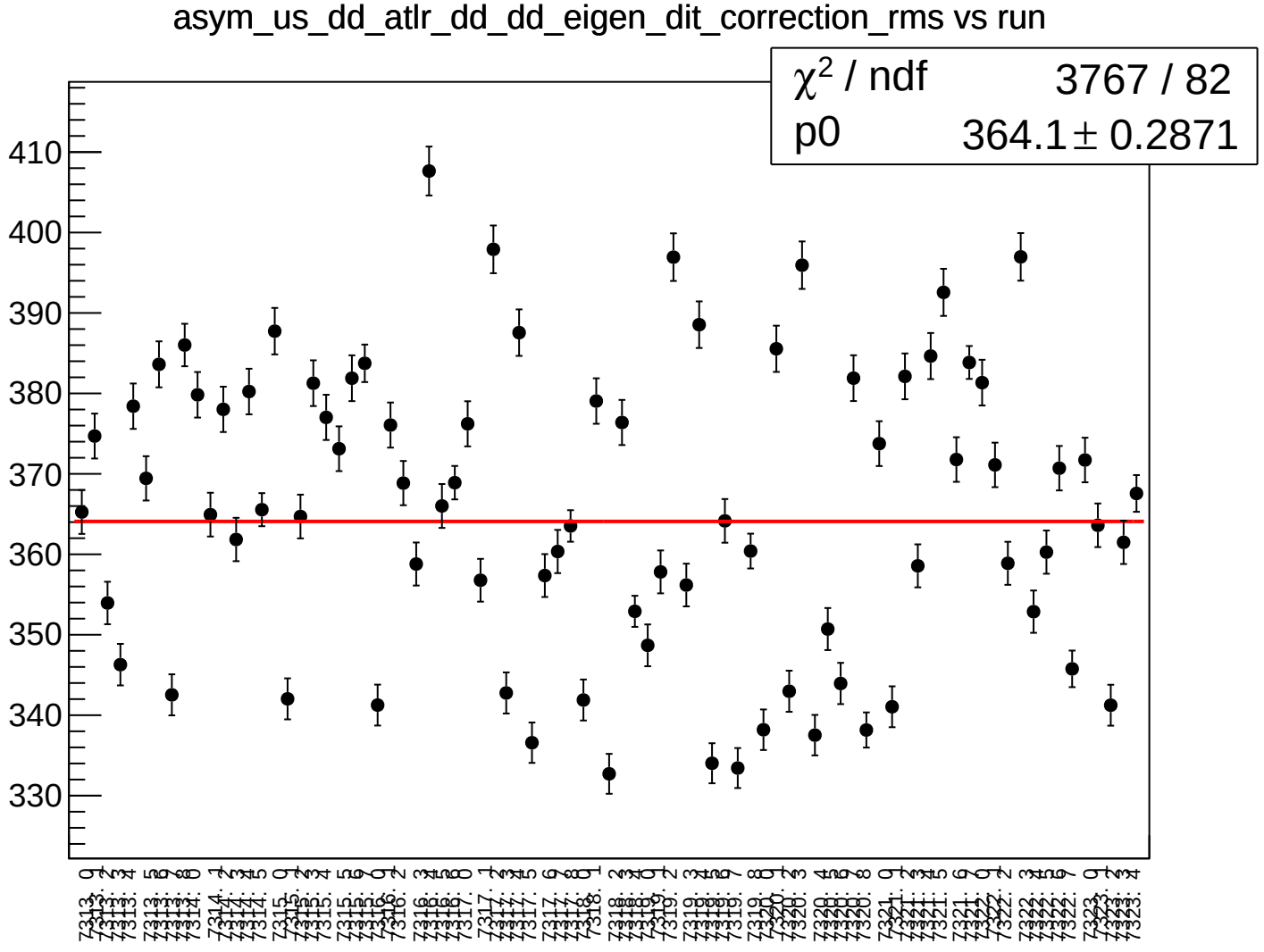

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 72.66 / 82
p0 −1962 ± 1273
pull
Entries 83
Mean −331.7
Std Dev 0

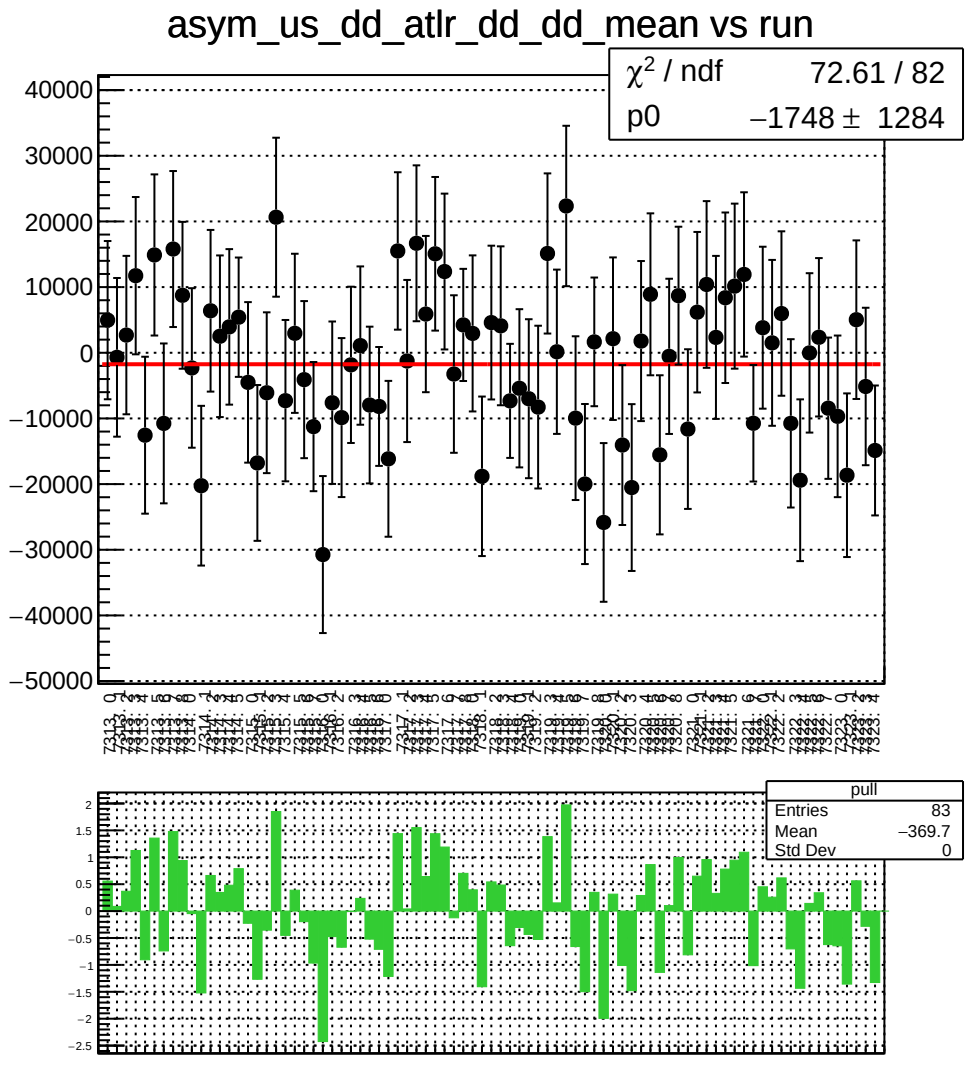

pull1D
Entries 83
Mean 0.01005
Std Dev 0.9356

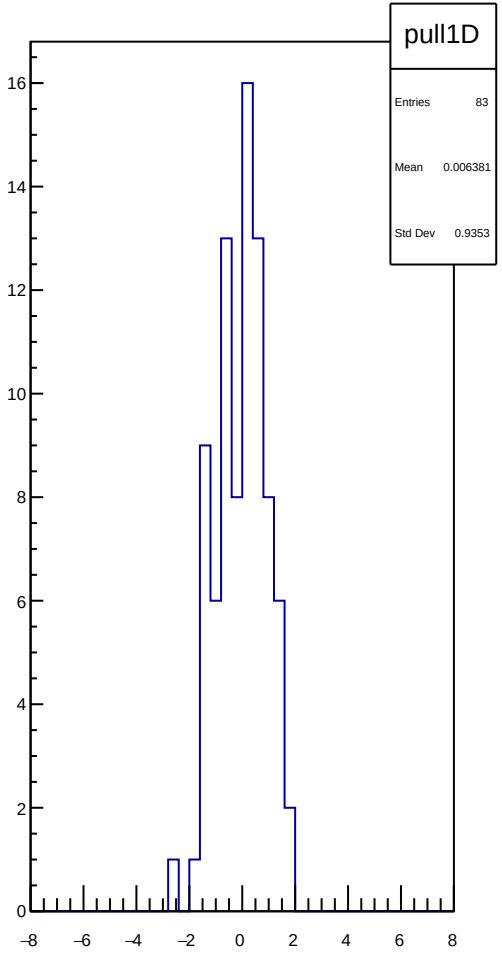

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1473 / 82
p0 1142 ± 0.9004
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

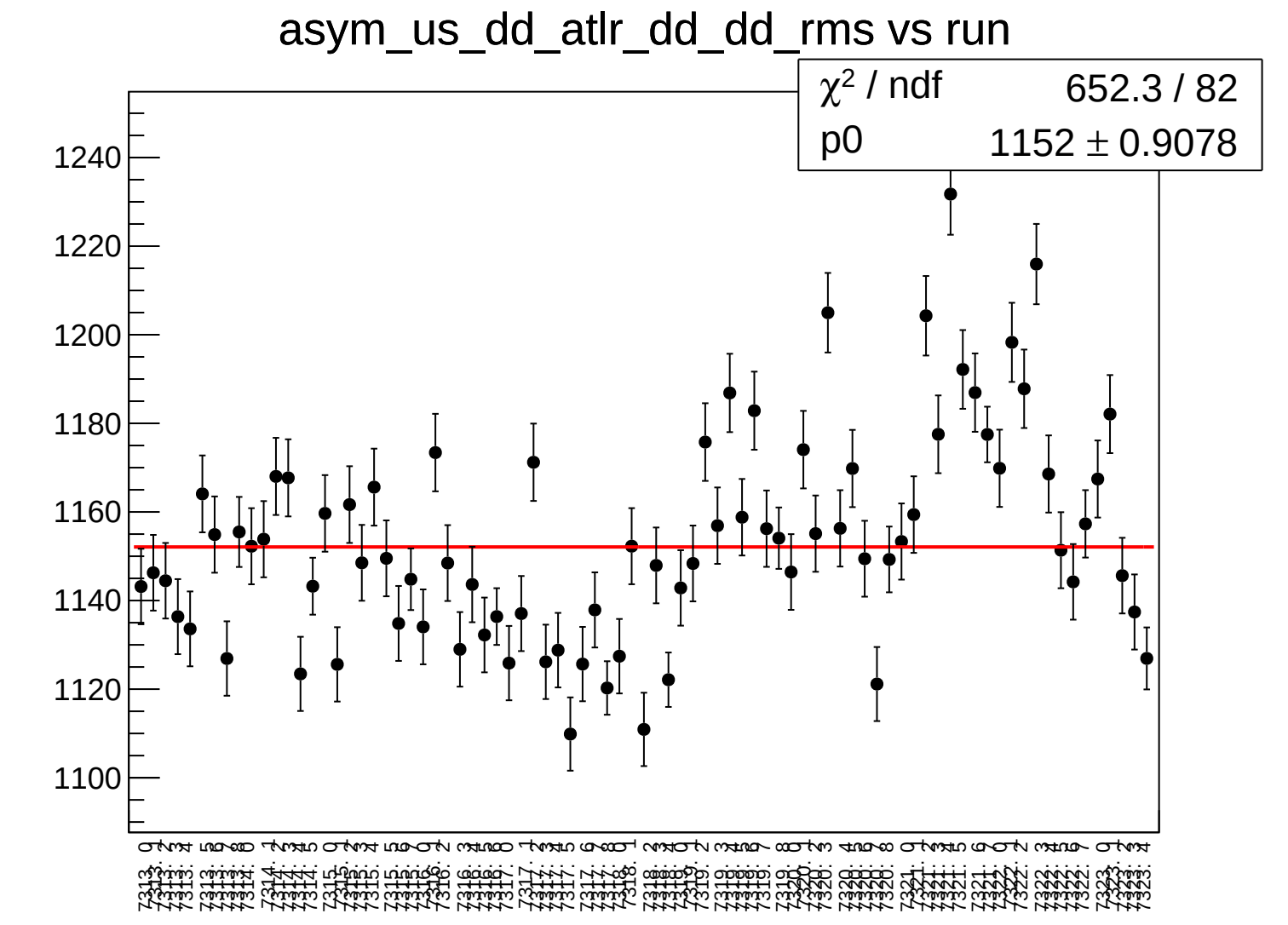

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.53 / 82
p0 −235.5 ± 406.1
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −195.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

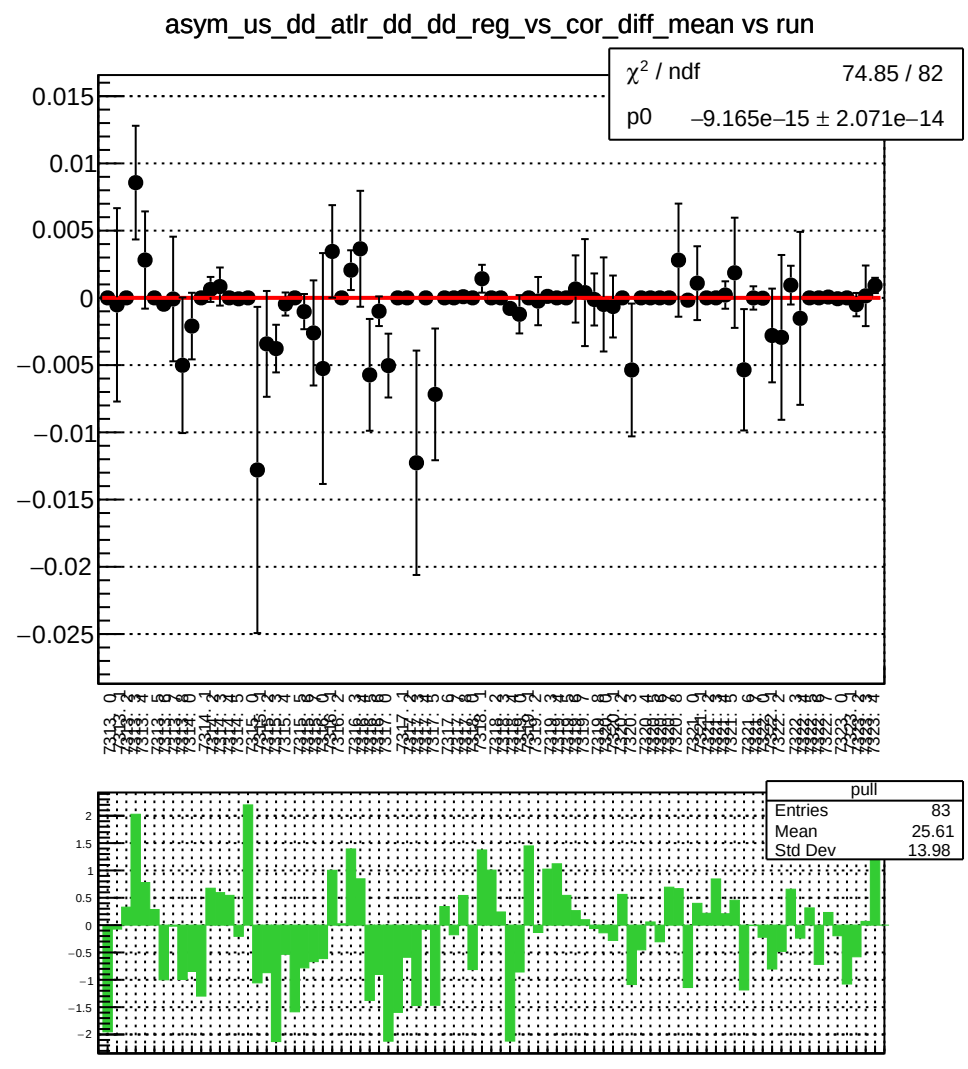

pull1D
Entries 83
Mean 0.01396
Std Dev 0.9217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

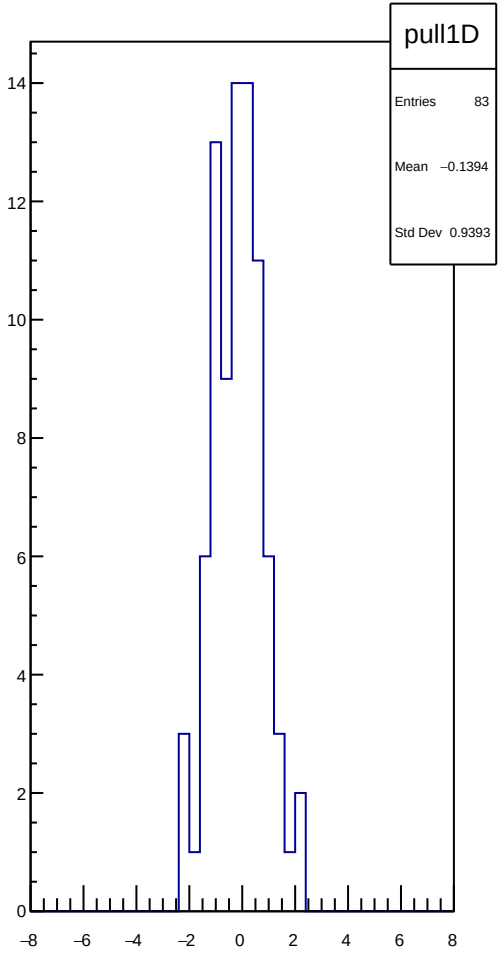

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3767 / 82
p0 364.1 ± 0.2871
410
400
390
380
370
360
350
340
330

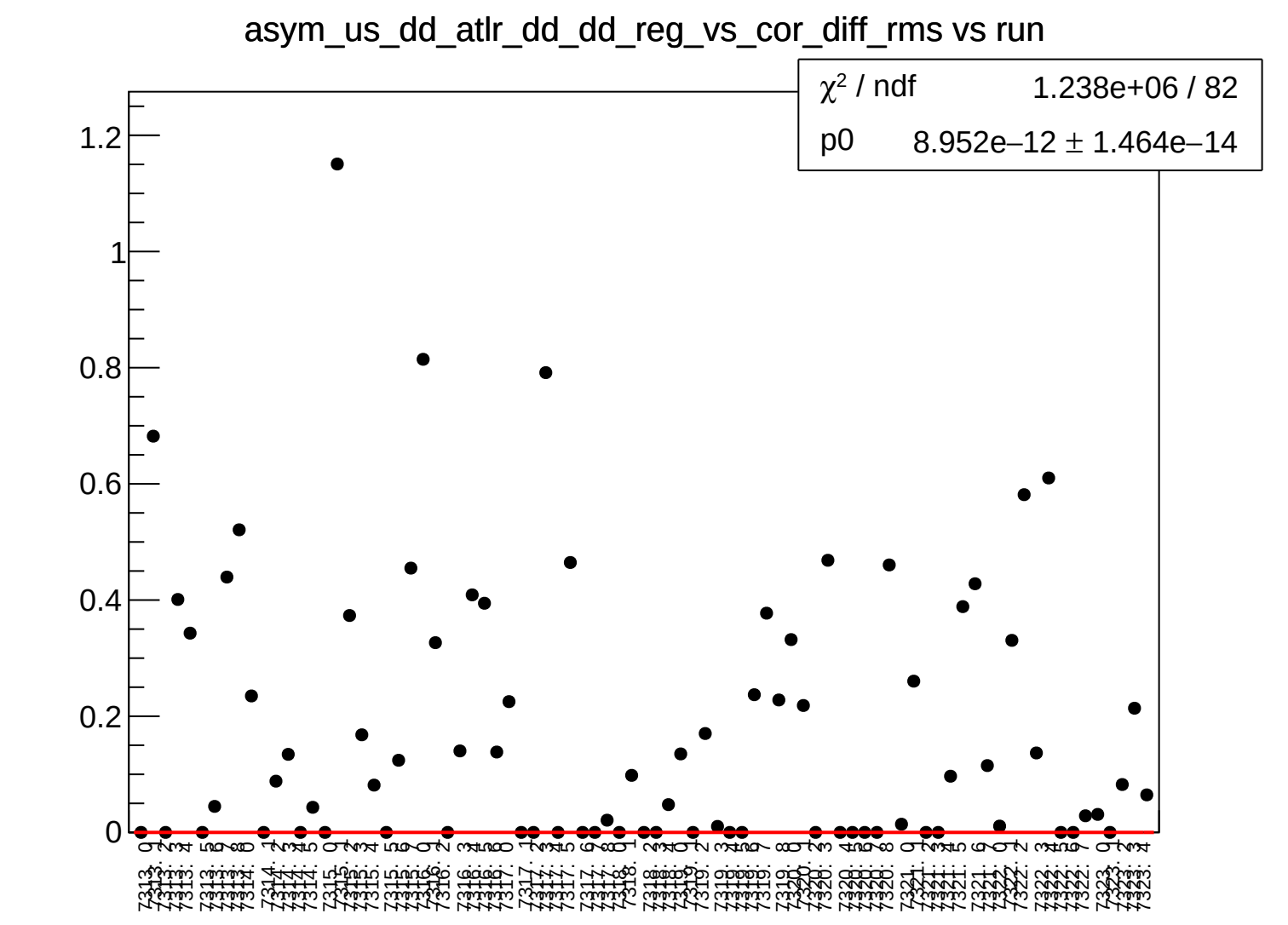

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 72.61 / 82
p0 −1748 ± 1284
pull
Entries 83
Mean −369.7
Std Dev 0

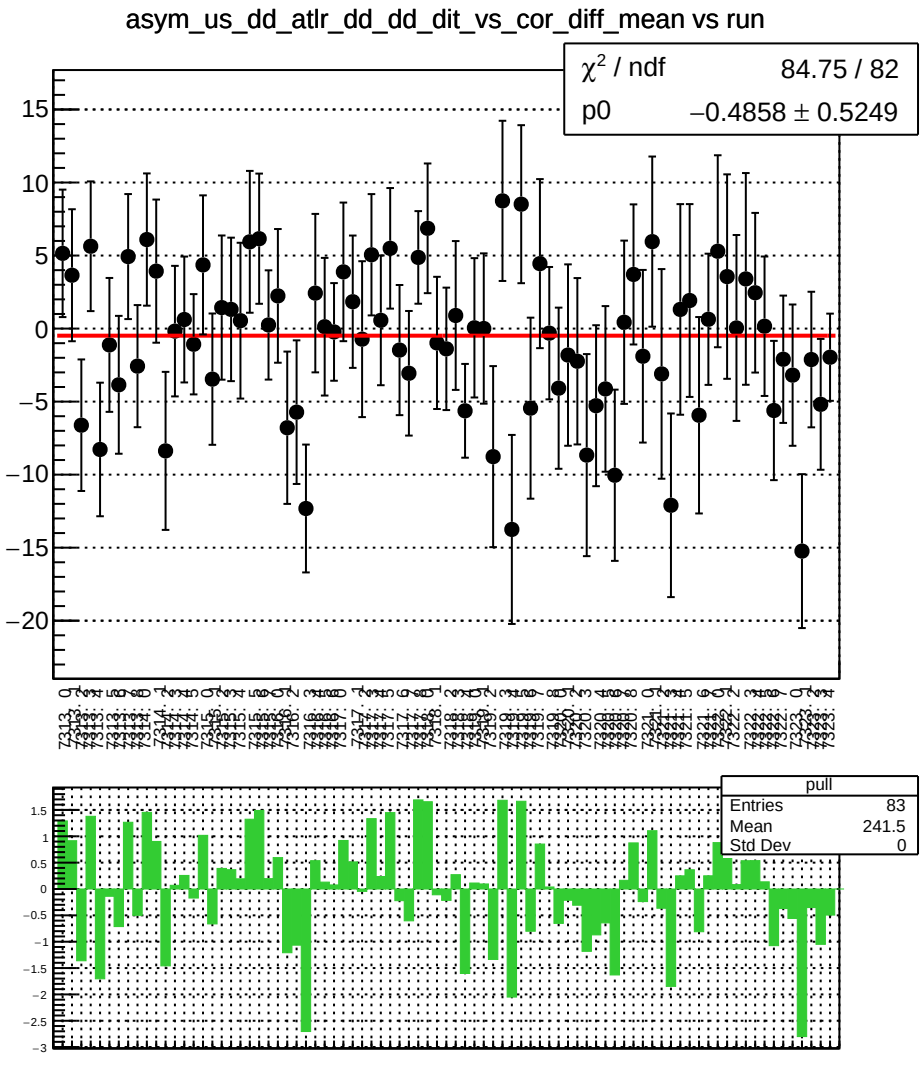

pull1D
Entries 83
Mean 0.006381
Std Dev 0.9353

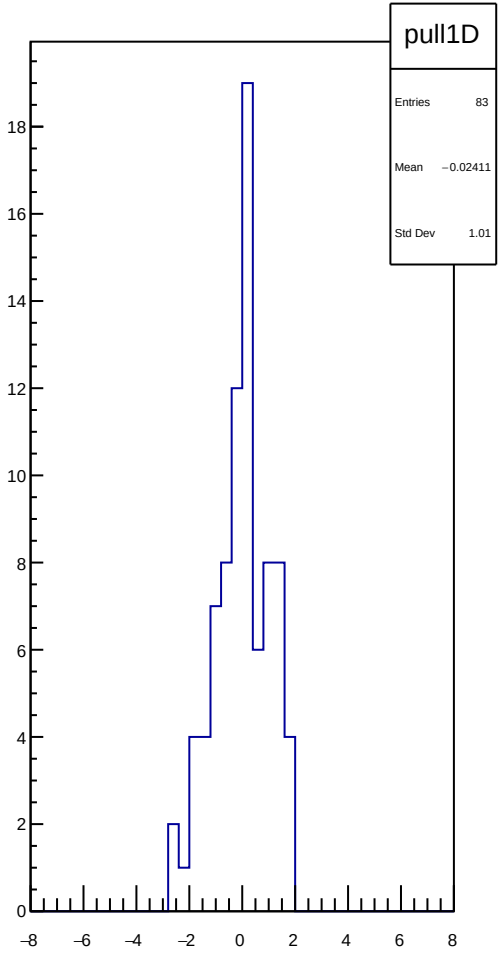

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 652.3 / 82
p0 1152 ± 0.9078
1240
1220
1200
1180
1160
1140
1120
1100

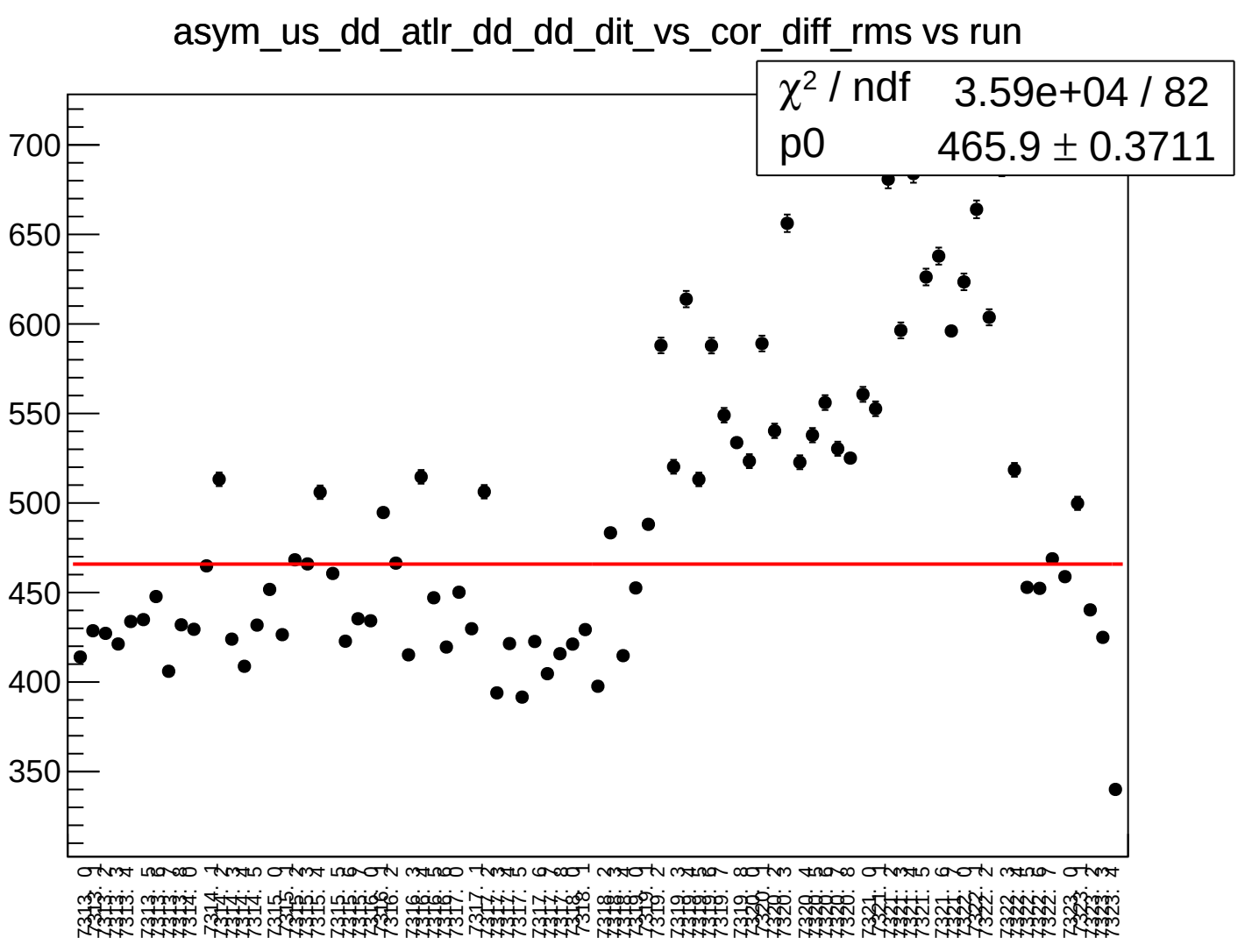

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.85 / 82
p0 −9.165e−15 ± 2.071e−14
pull
Entries 83
Mean 25.61
Std Dev 13.98

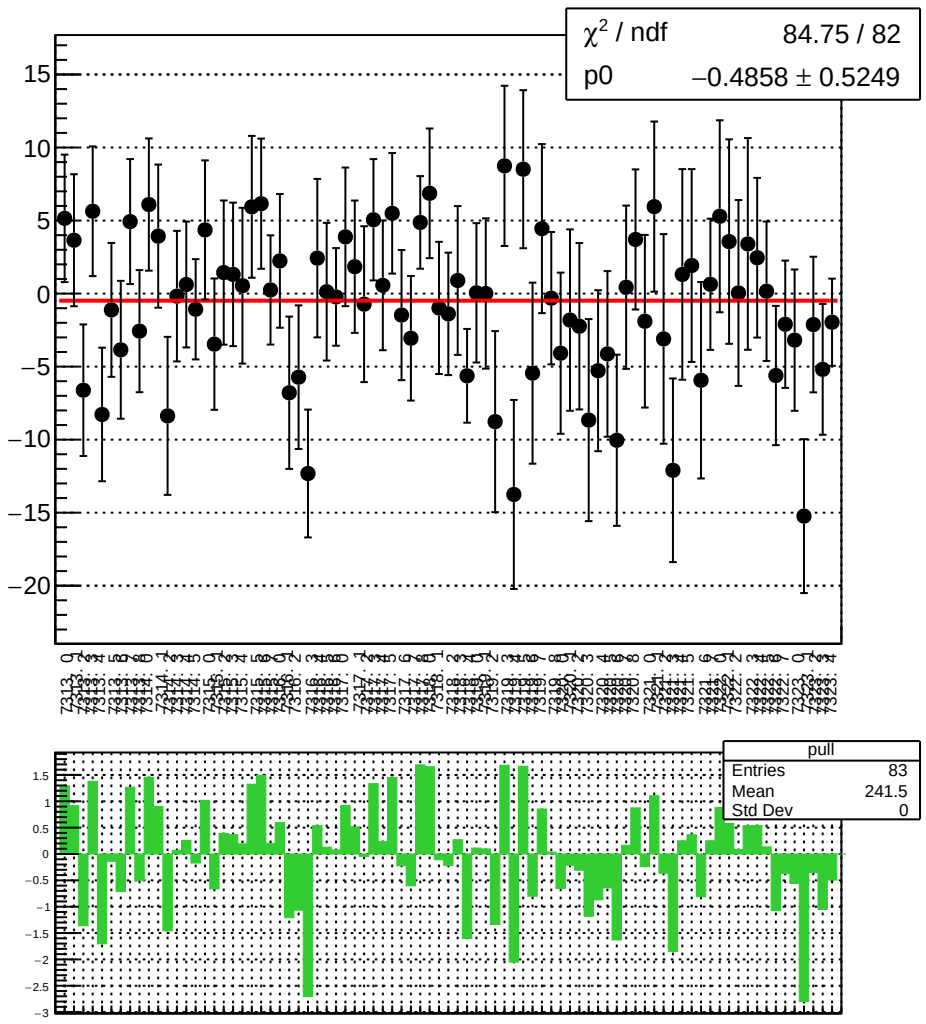

pull1D
Entries 83
Mean −0.1394
Std Dev 0.9393

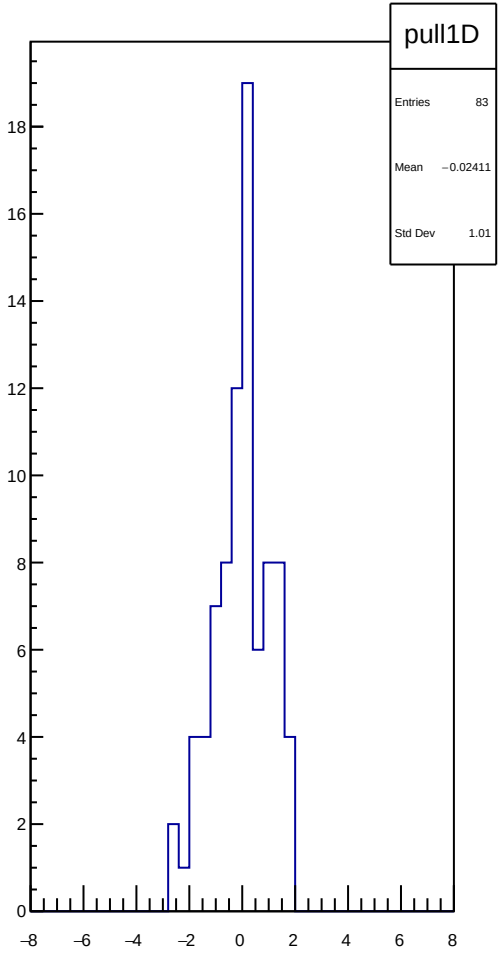

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.238e+06 / 82
p0 8.952e−12 ± 1.464e−14
1.2
1
0.8
0.6
0.4
0.2
0

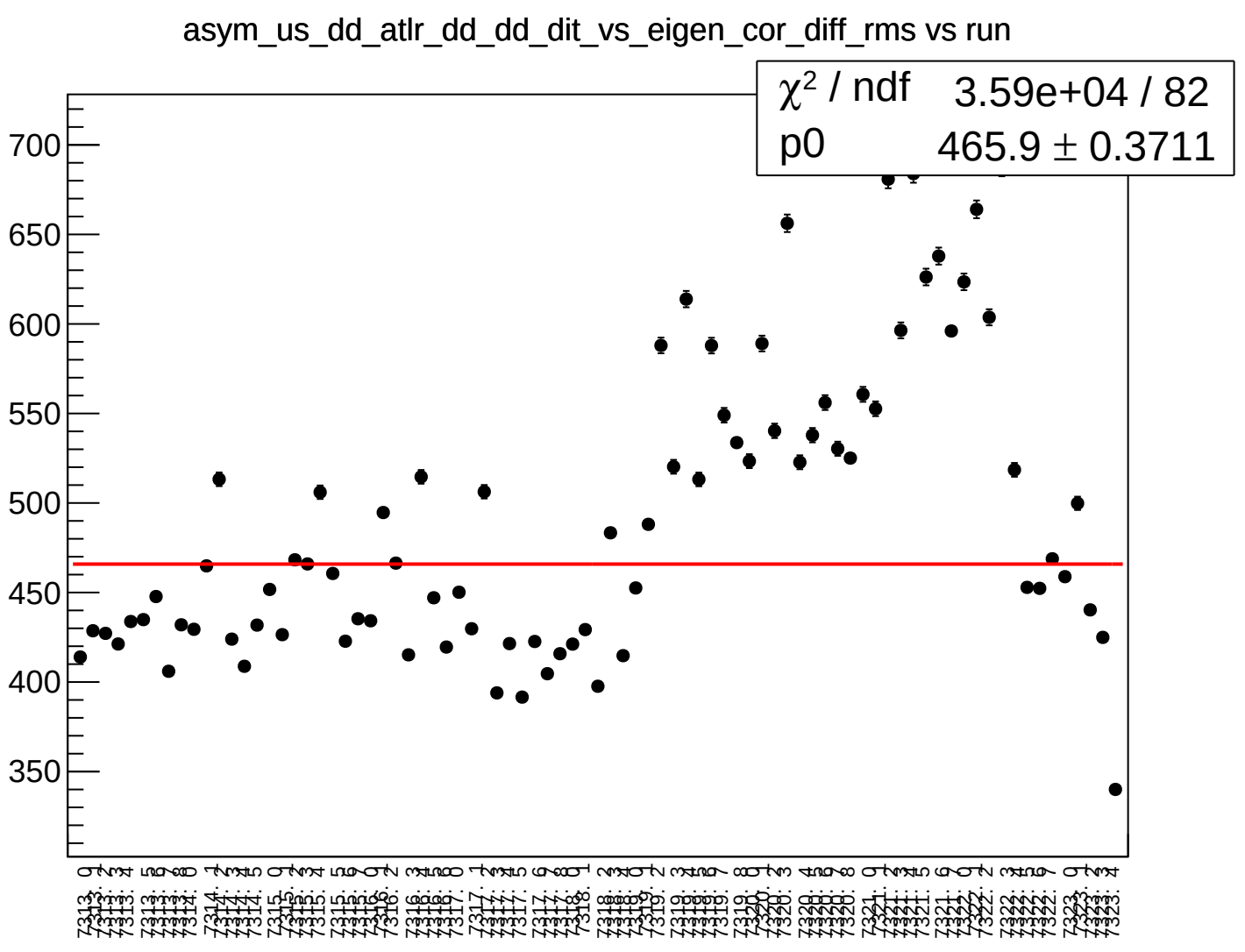

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 82
p0 −0.4858 ± 0.5249
pull
Entries 83
Mean 241.5
Std Dev 0

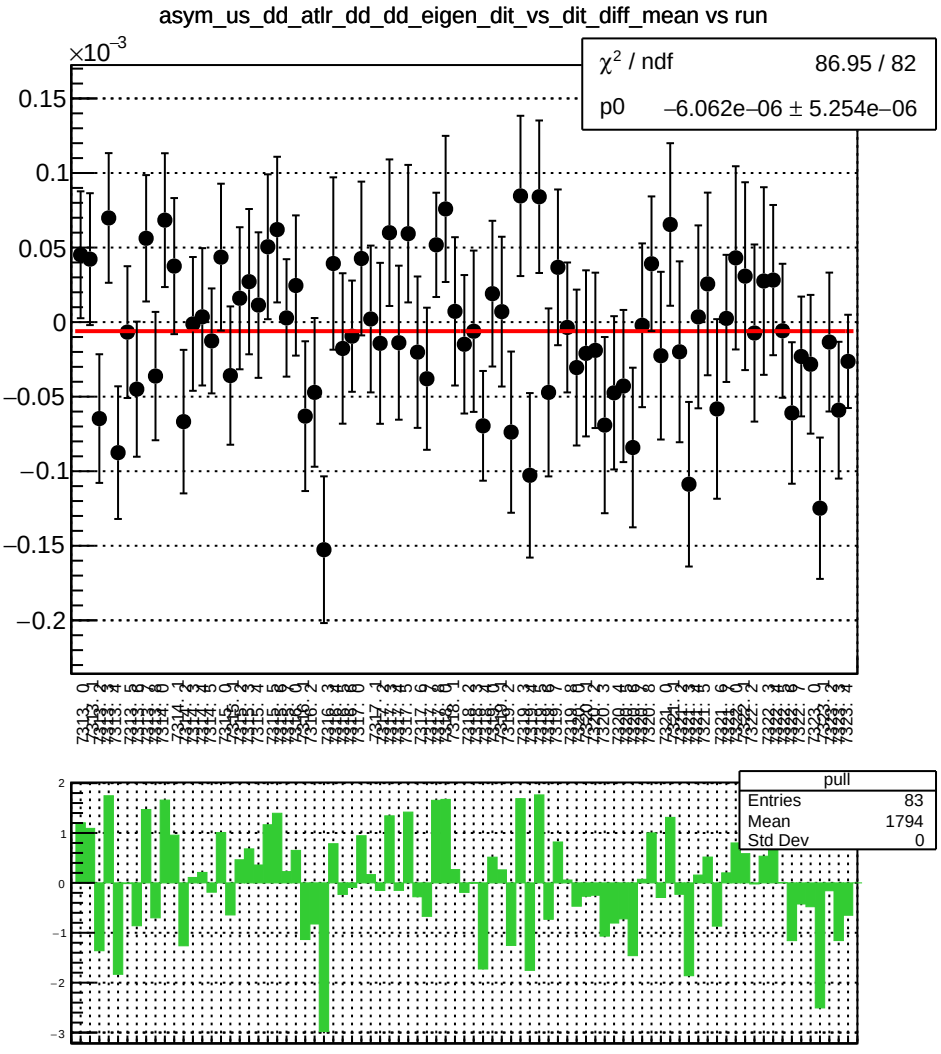

pull1D
Entries 83
Mean −0.02411
Std Dev 1.01

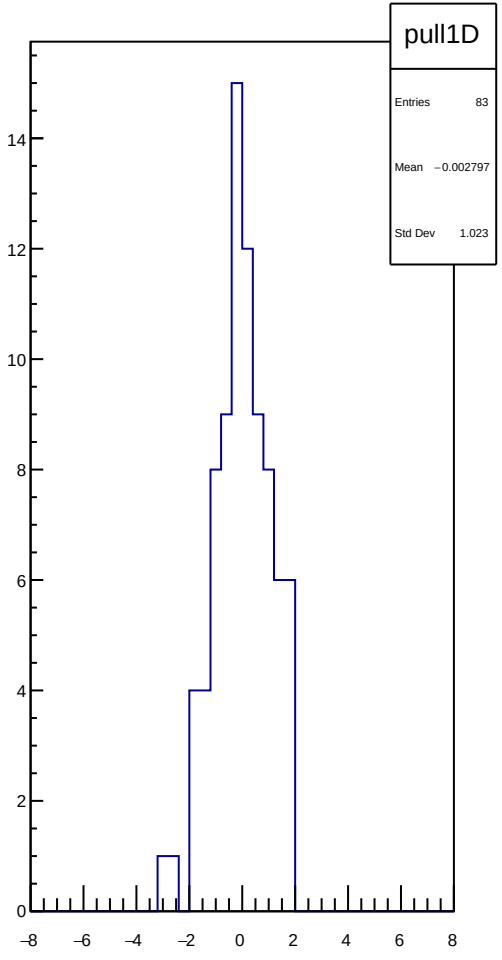

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.59e+04 / 82
p0 465.9 ± 0.3711
700
650
600
550
500
450
400
350

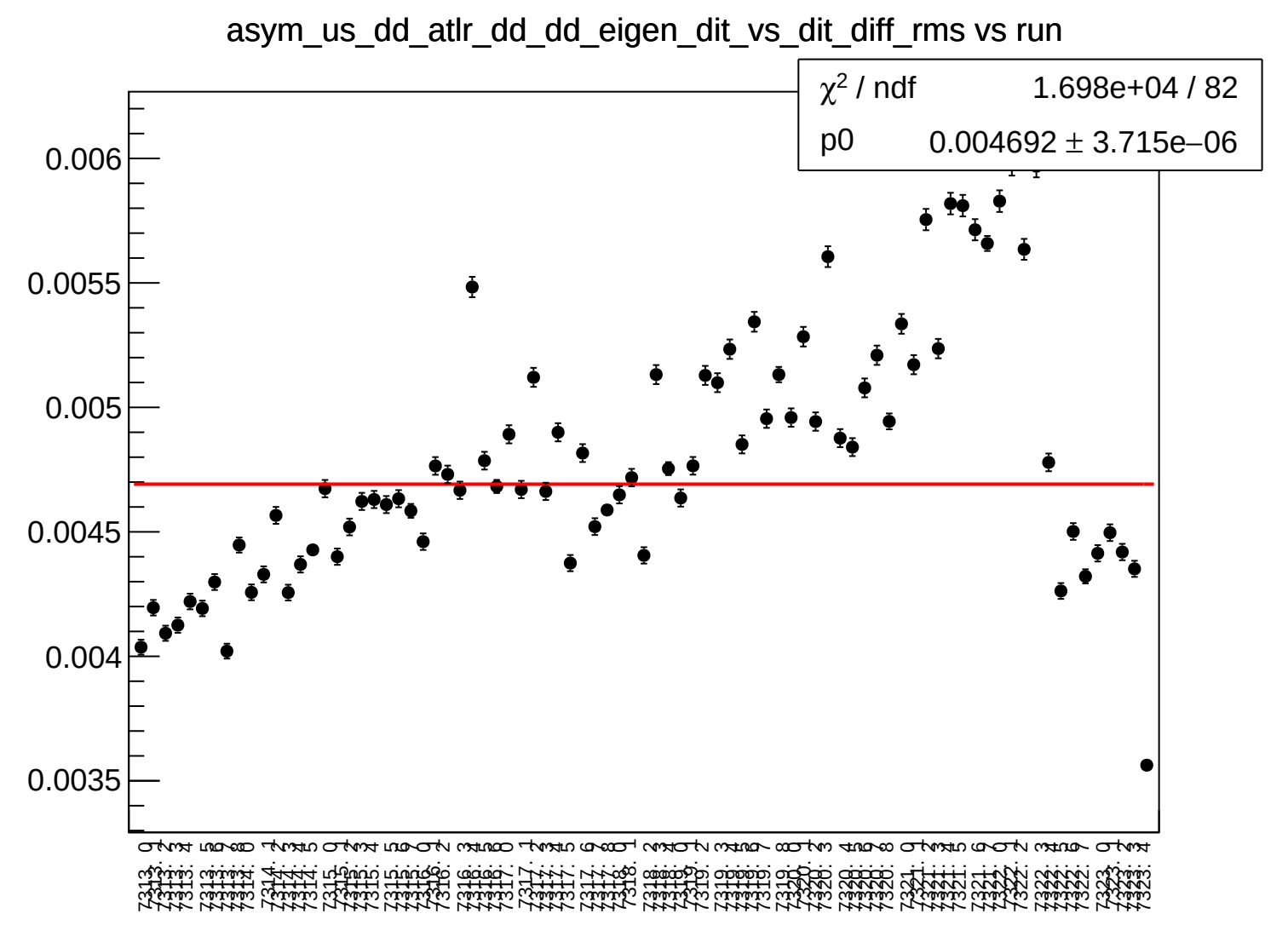

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.75 / 82
p0 −0.4858 ± 0.5249
pull
Entries 83
Mean 241.5
Std Dev 0

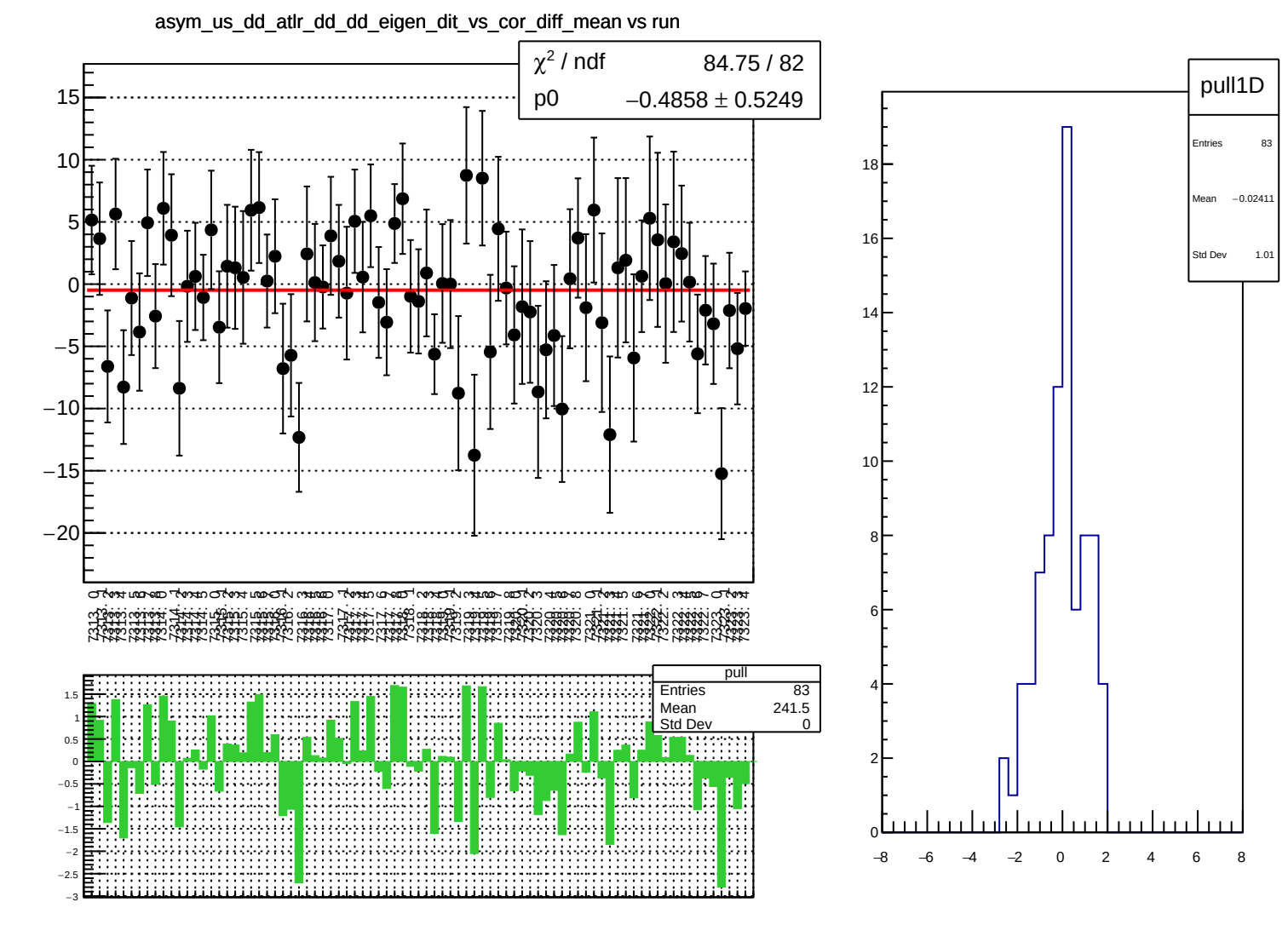

pull1D
Entries 83
Mean −0.02411
Std Dev 1.01

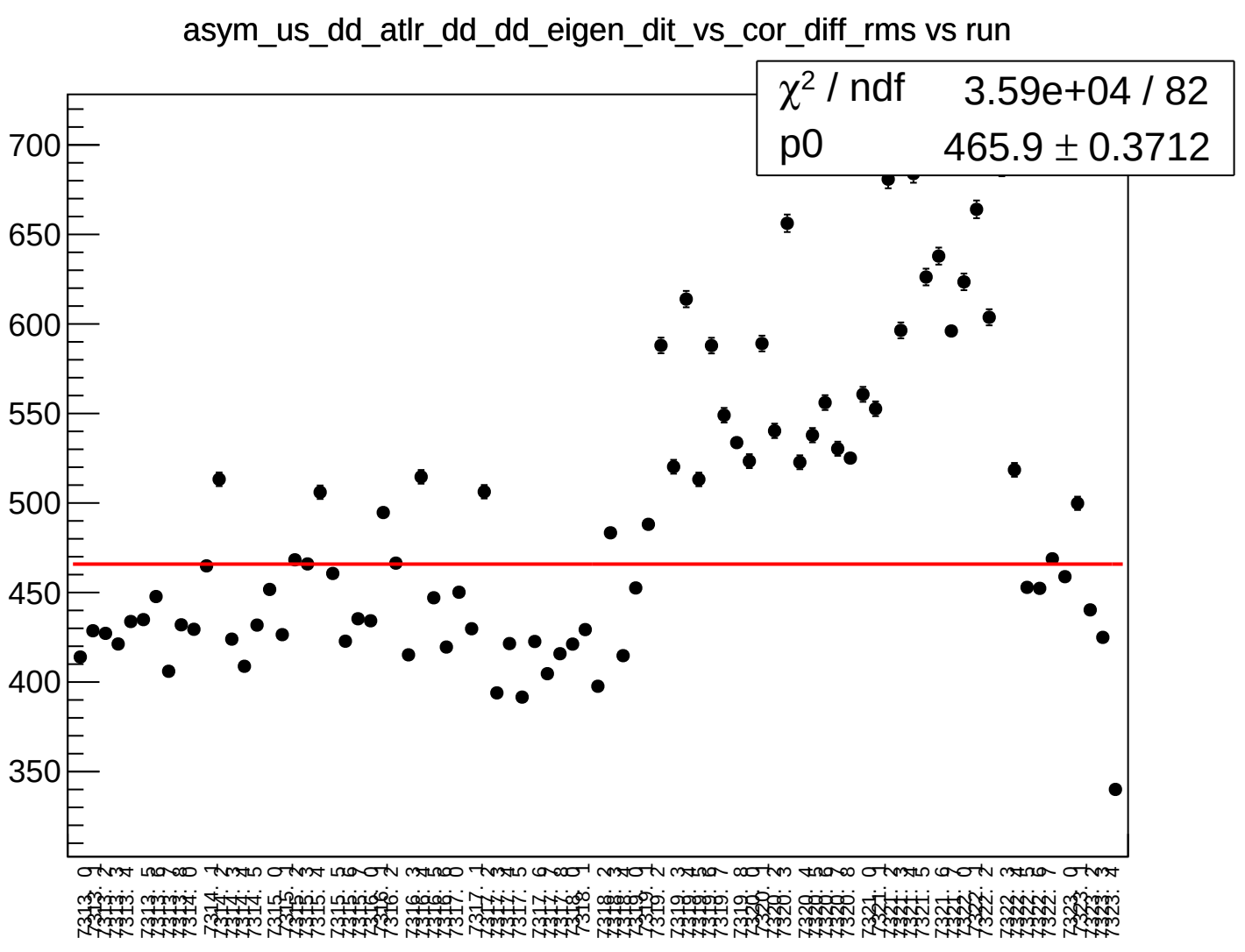

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.59e+04 / 82
p0 465.9 ± 0.3711
700
650
600
550
500
450
400
350

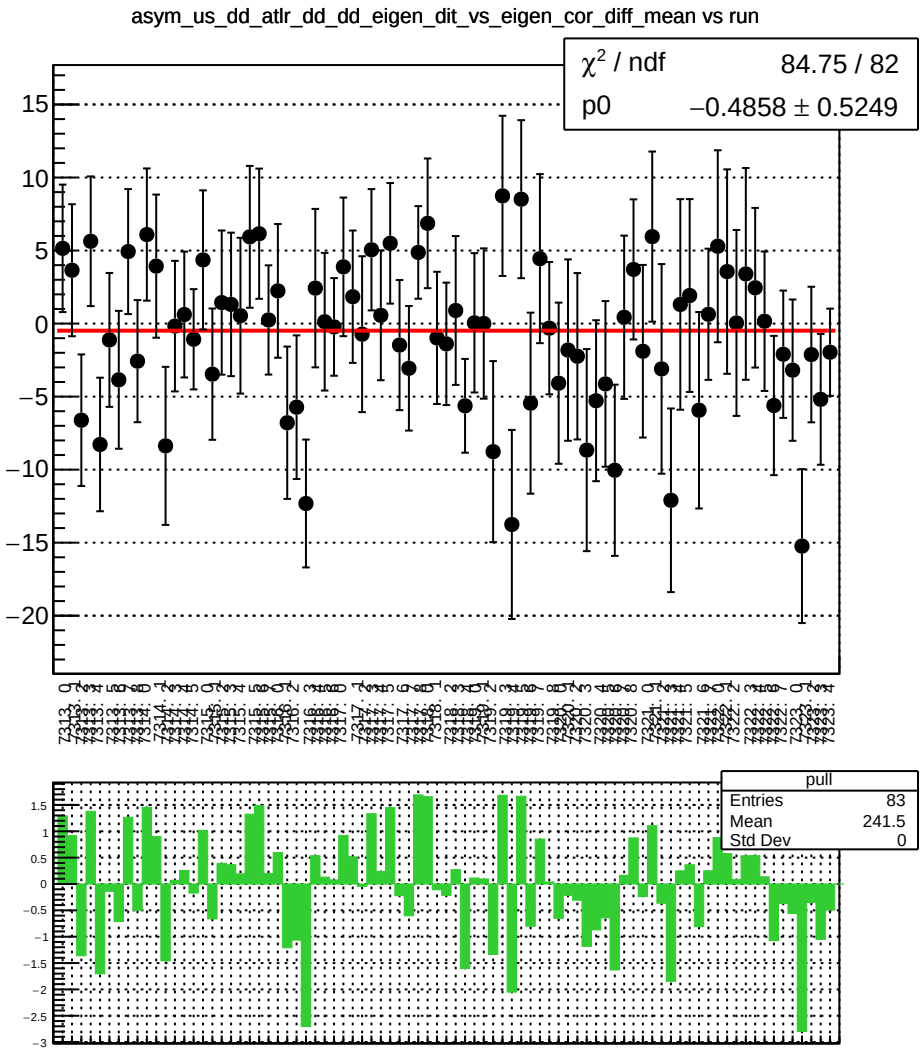

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.95 / 82
p0 −6.062e−06 ± 5.254e−06
pull
Entries 83
Mean 1794
Std Dev 0

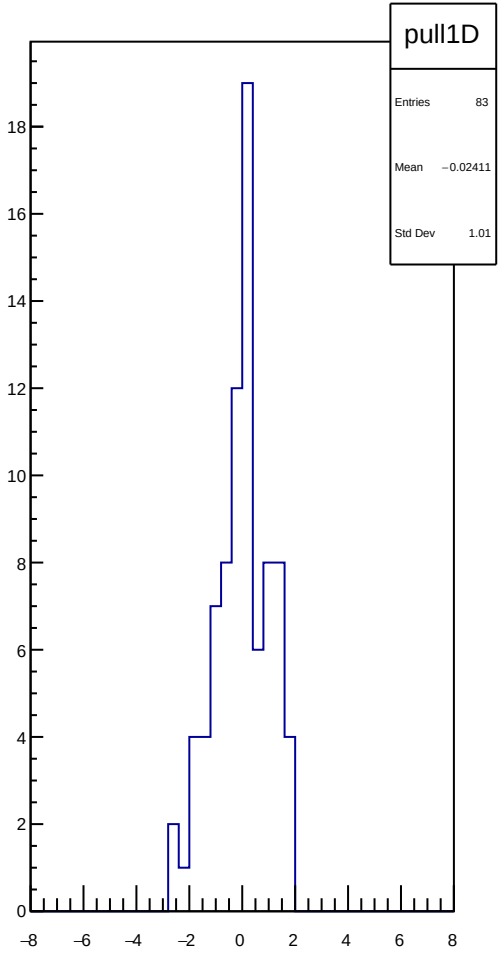

pull1D
Entries 83
Mean −0.002797
Std Dev 1.023

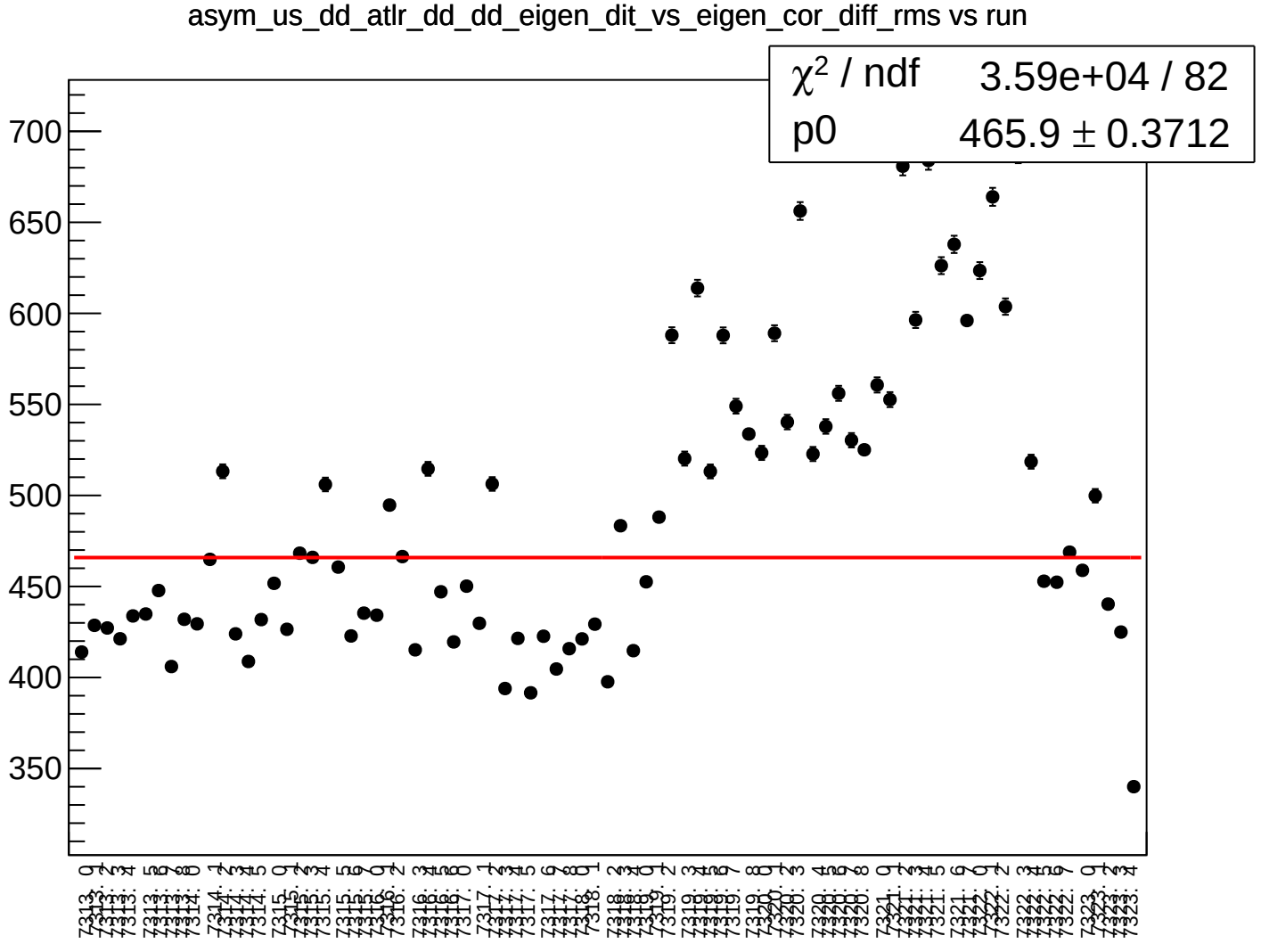

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.698e+04 / 82
p0 0.004692 ± 3.715e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

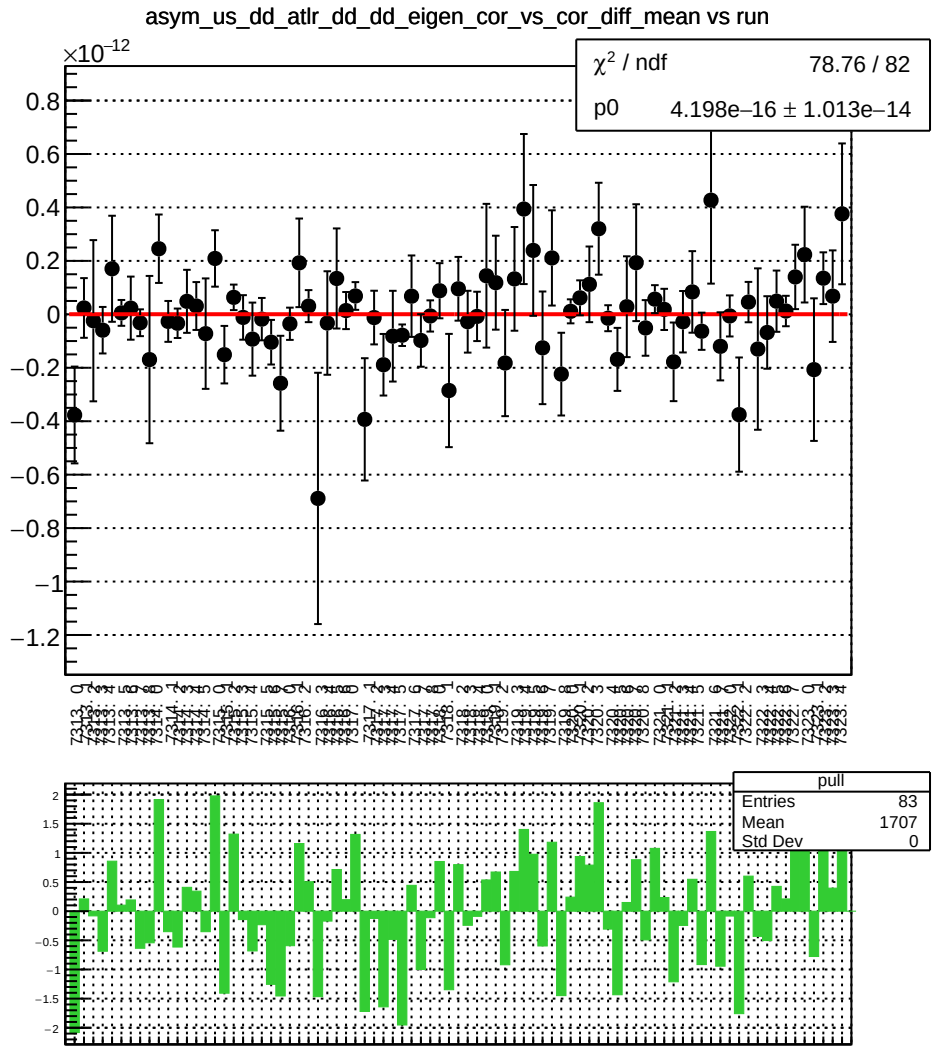

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 82
p0 −0.4858 ± 0.5249
pull
Entries 83
Mean 241.5
Std Dev 0
pull1D
Entries 83
Mean −0.02411
Std Dev 1.01

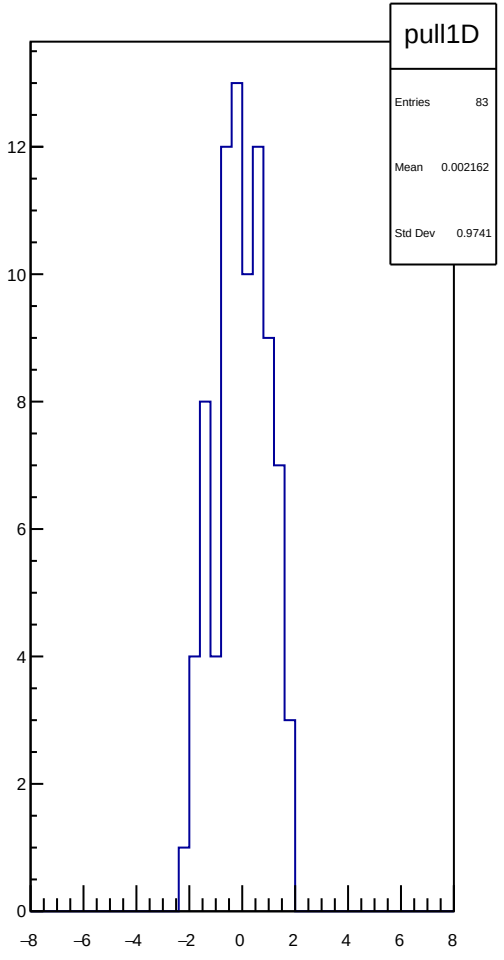

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.59e+04 / 82
p0 465.9 ± 0.3712
700
650
600
550
500
450
400
350

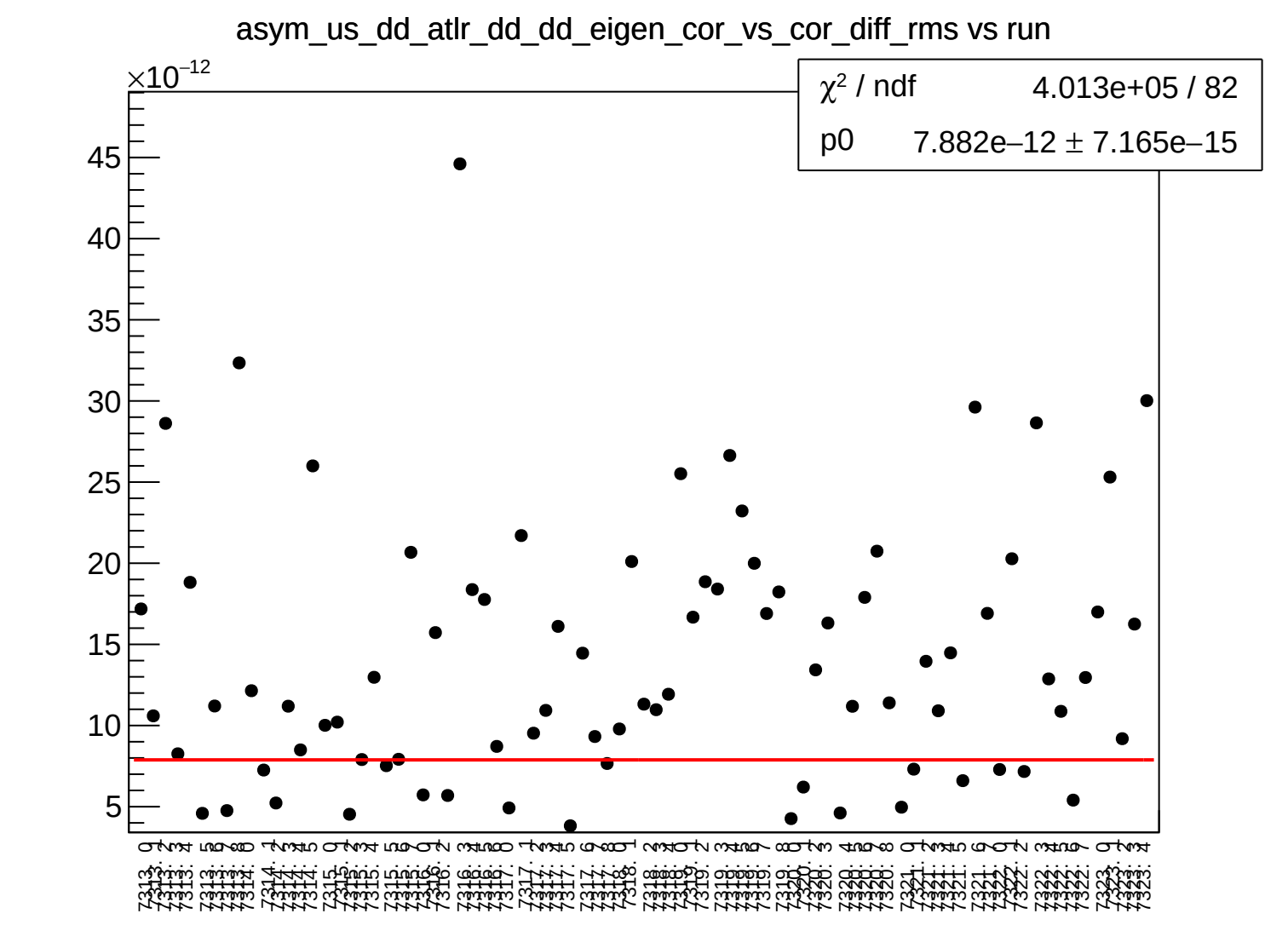

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.75 / 82
p0 −0.4858 ± 0.5249
pull
Entries 83
Mean 241.5
Std Dev 0

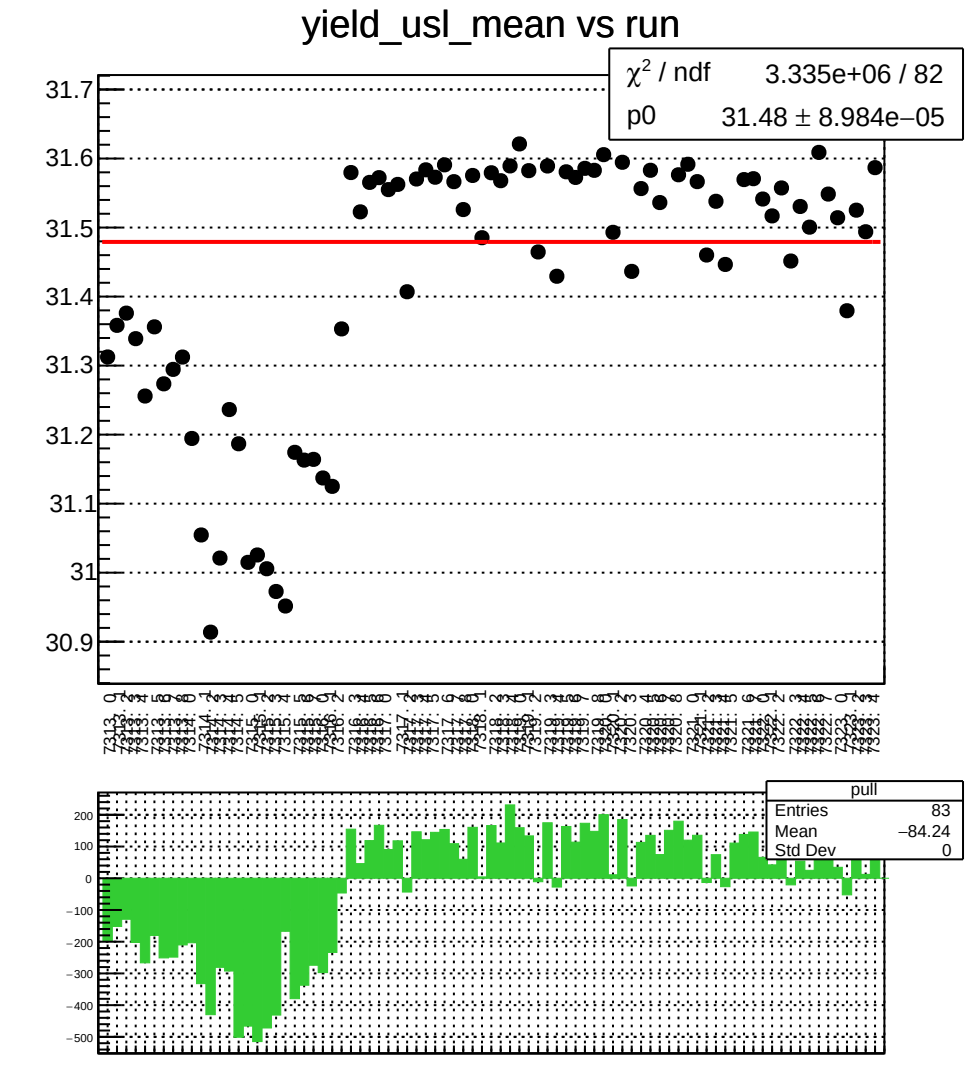

pull1D
Entries 83
Mean −0.02411
Std Dev 1.01

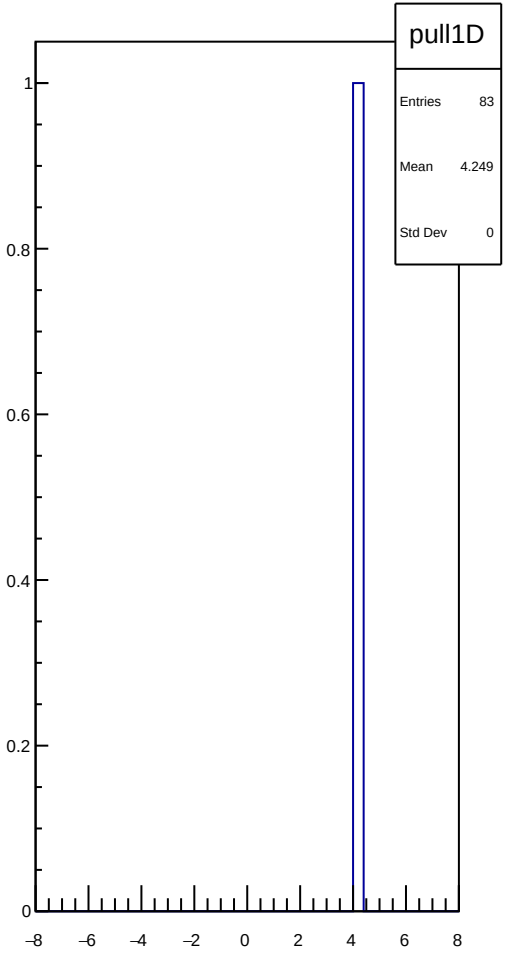

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.59e+04 / 82
p0 465.9 ± 0.3712
700
650
600
550
500
450
400
350

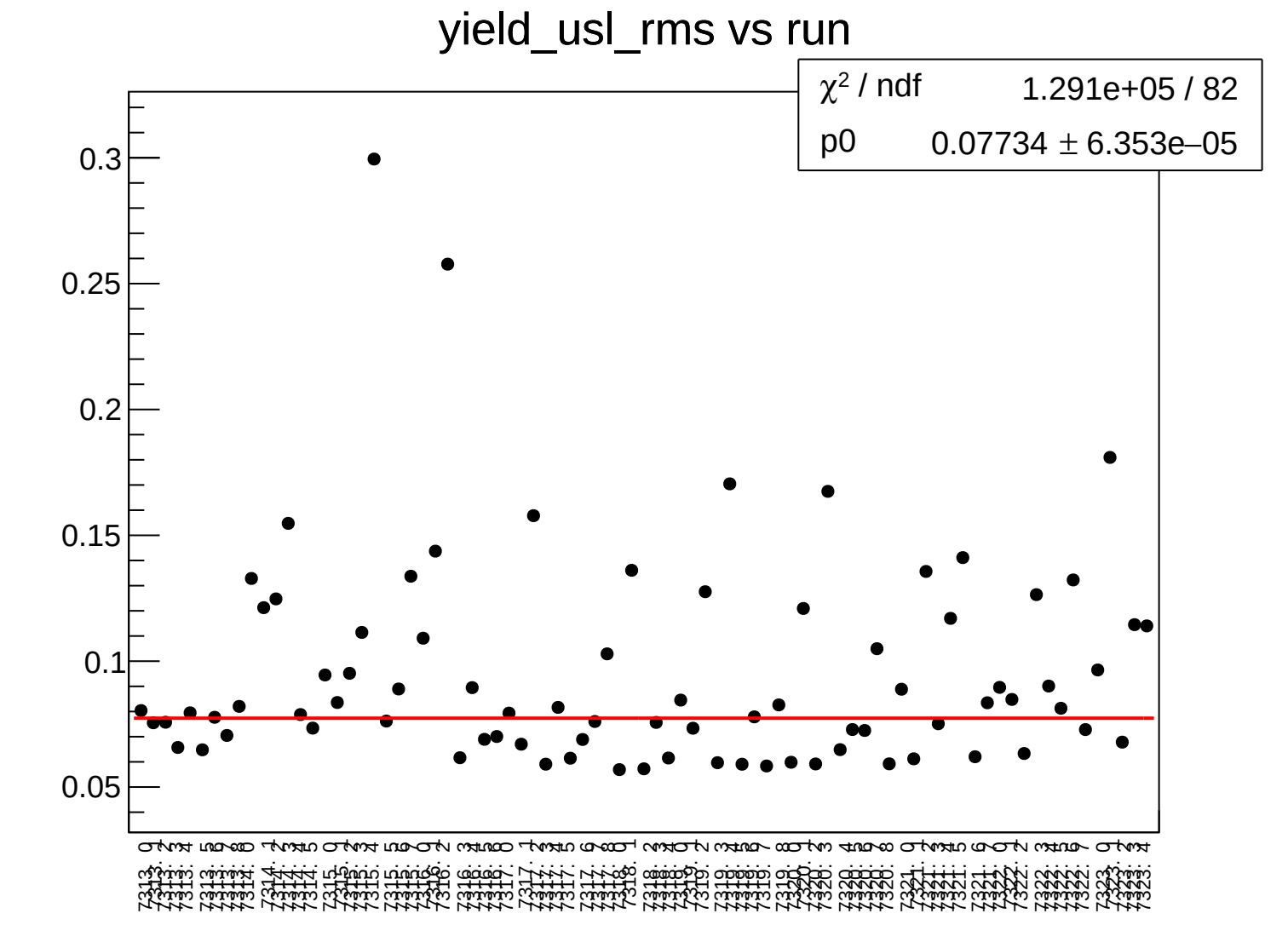

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.76 / 82
p0 4.198e−16 ± 1.013e−14
pull
Entries 83
Mean 1707
Std Dev 0

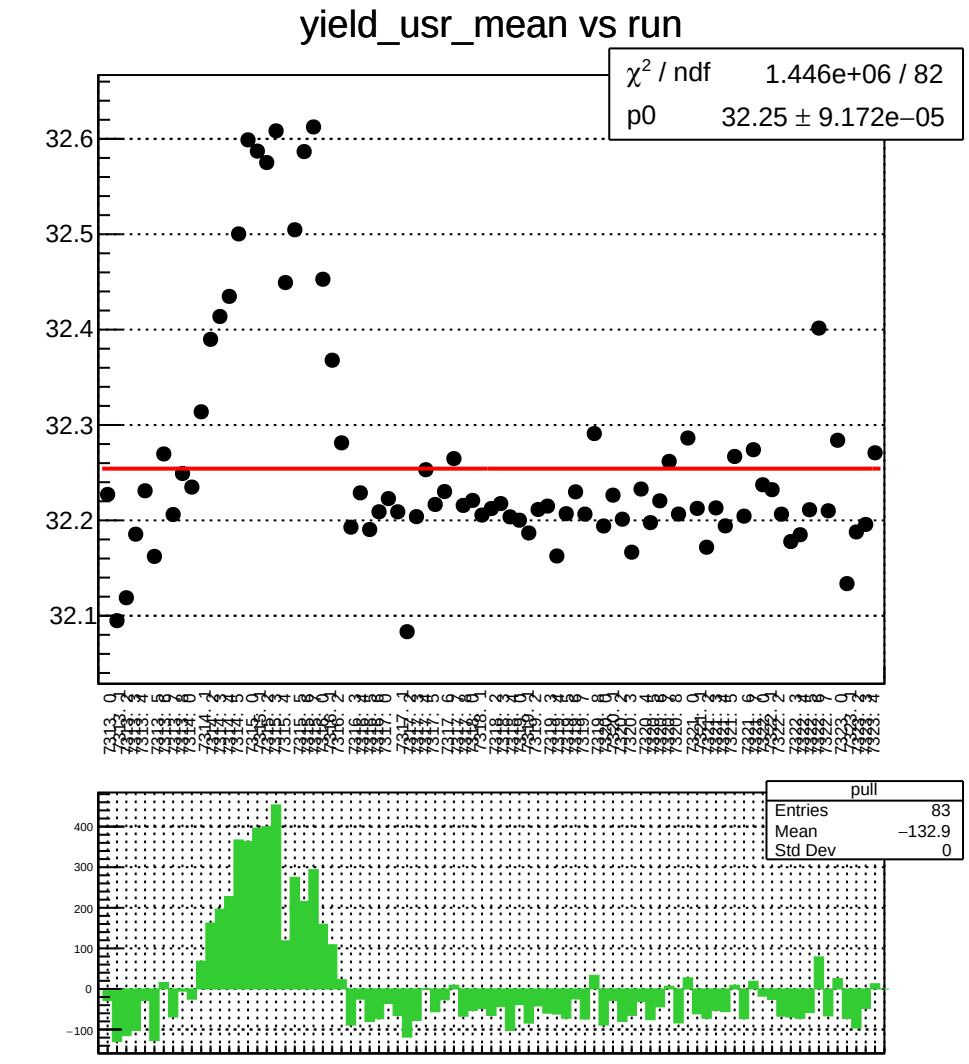

pull1D
Entries 83
Mean 0.002162
Std Dev 0.9741

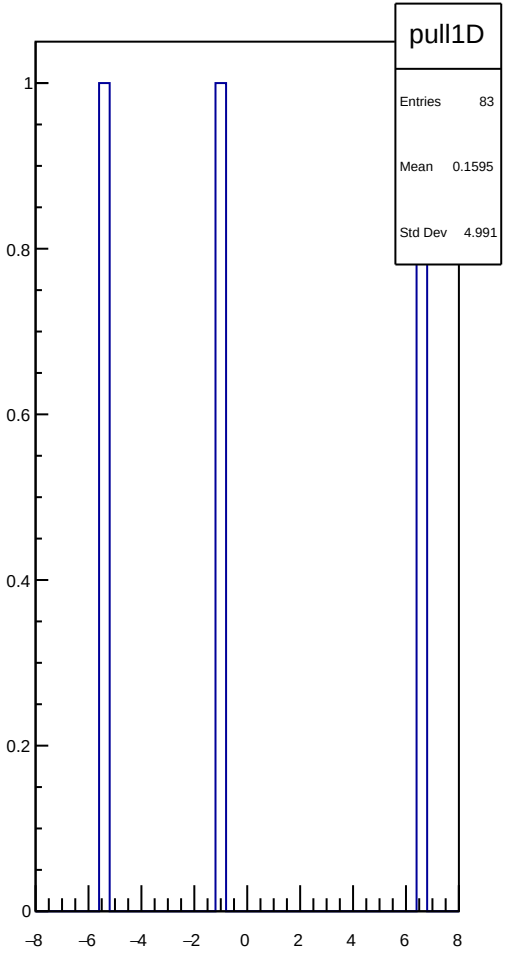

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.013e+05 / 82
p0 7.882e−12 ± 7.165e−15
45
40
35
30
25
20
15
10
5

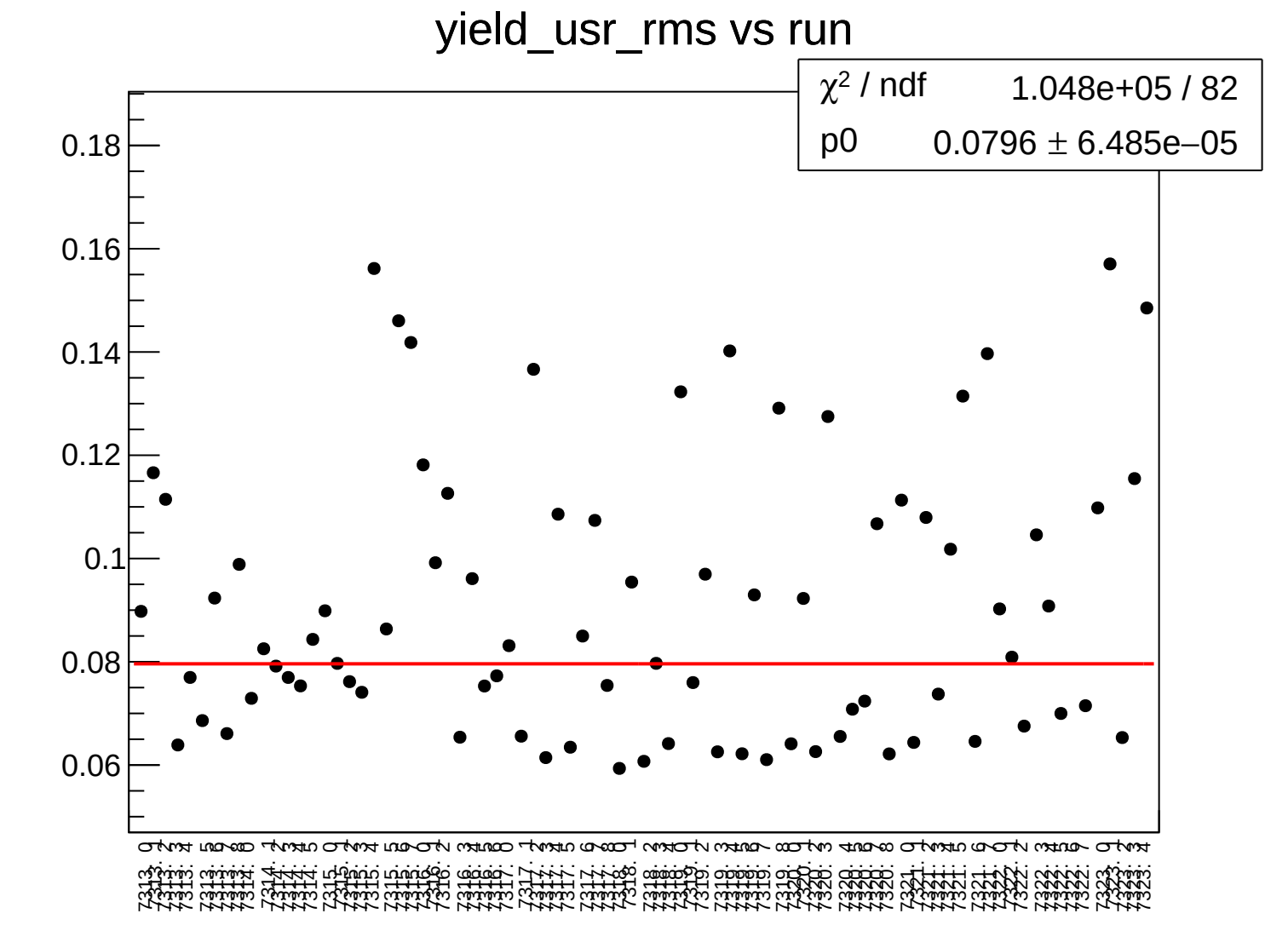

yield_usl_mean vs run
χ² / ndf 3.335e+06 / 82
p0 31.48 ± 8.984e−05
31.7
31.6
31.5
31.4
31.3
31.2
31.1
31
30.9
pull
Entries 83
Mean −84.24
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

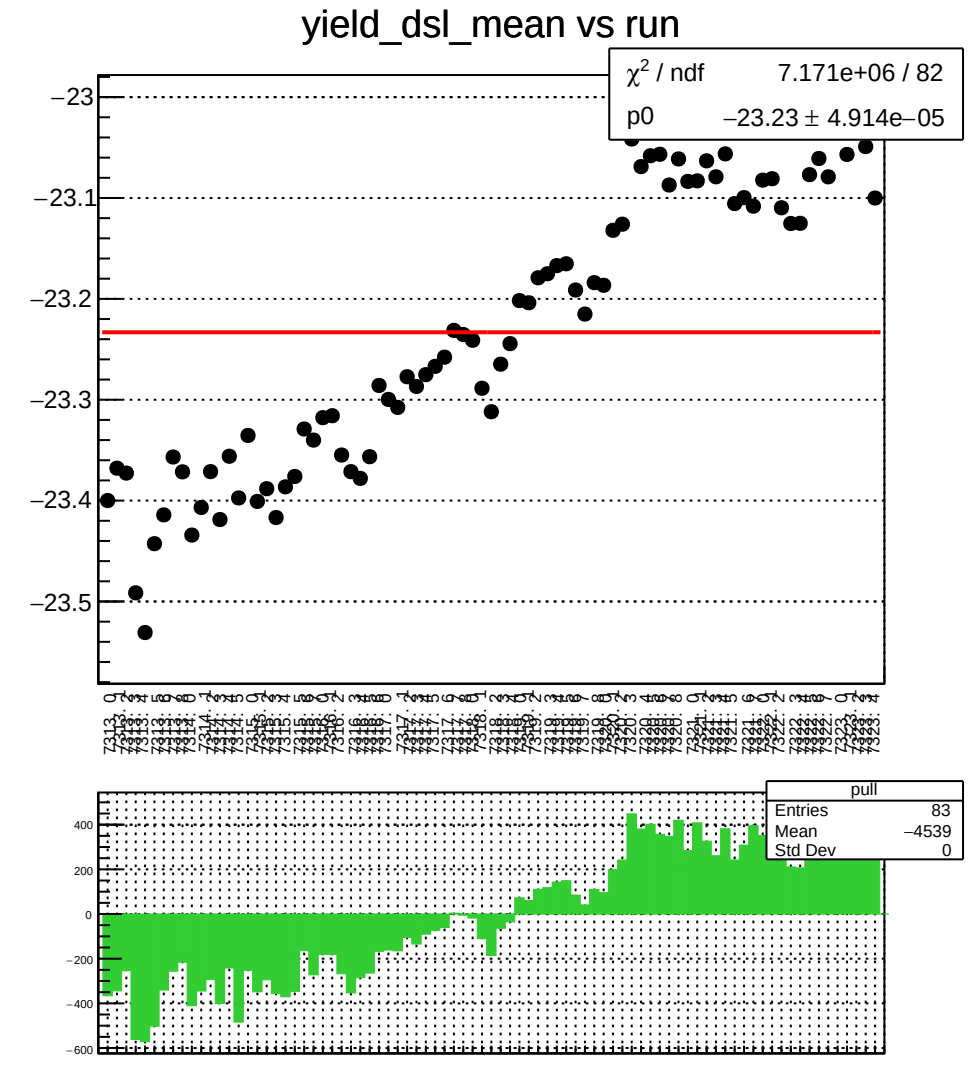

pull1D
Entries 83
Mean 4.249
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

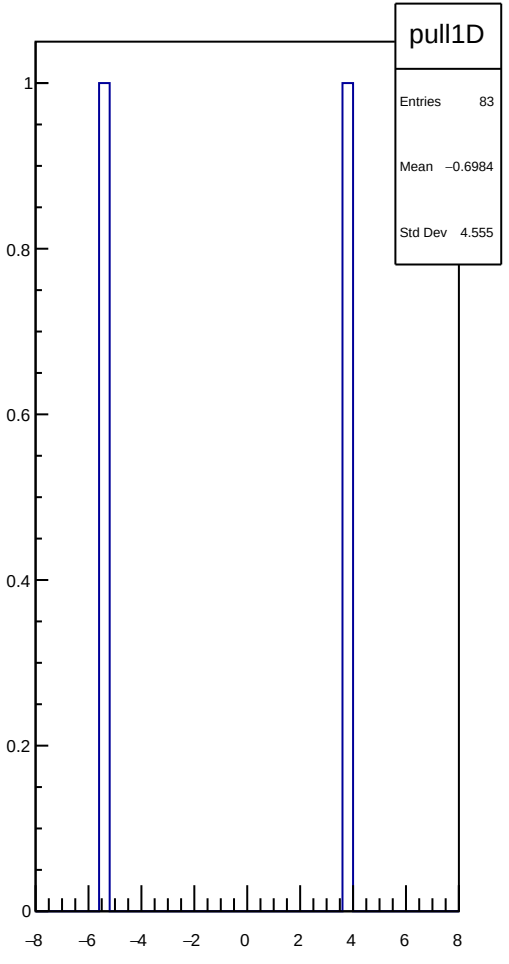

yield_usl_rms vs run
χ² / ndf 1.291e+05 / 82
p0 0.07734 ± 6.353e−05
0.3
0.25
0.2
0.15
0.1
0.05

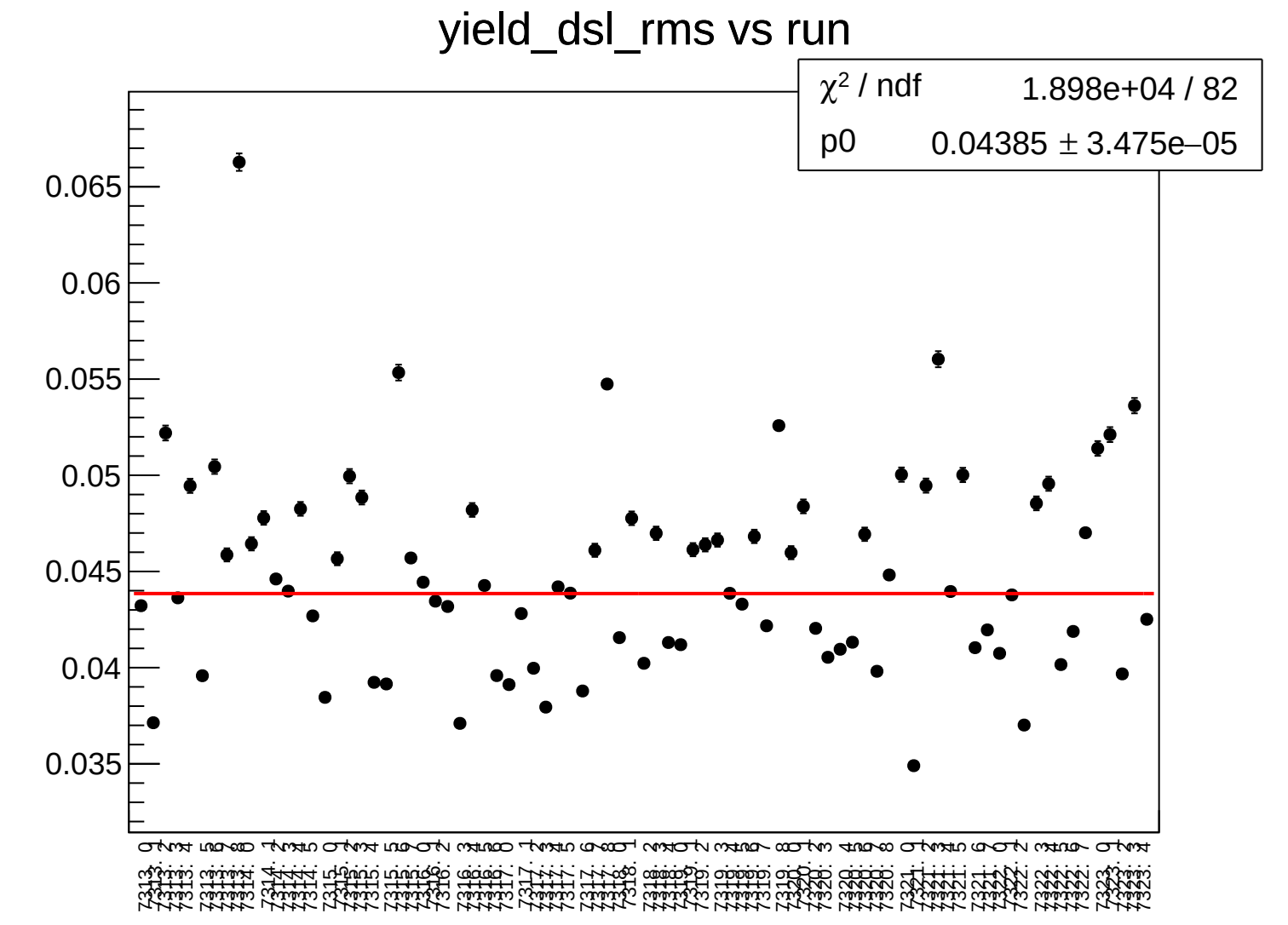

yield_usr_mean vs run
χ² / ndf 1.446e+06 / 82
p0 32.25 ± 9.172e−05
32.6
32.5
32.4
32.3
32.2
32.1
pull
Entries 83
Mean −132.9
Std Dev 0
400
300
200
100
0
−100

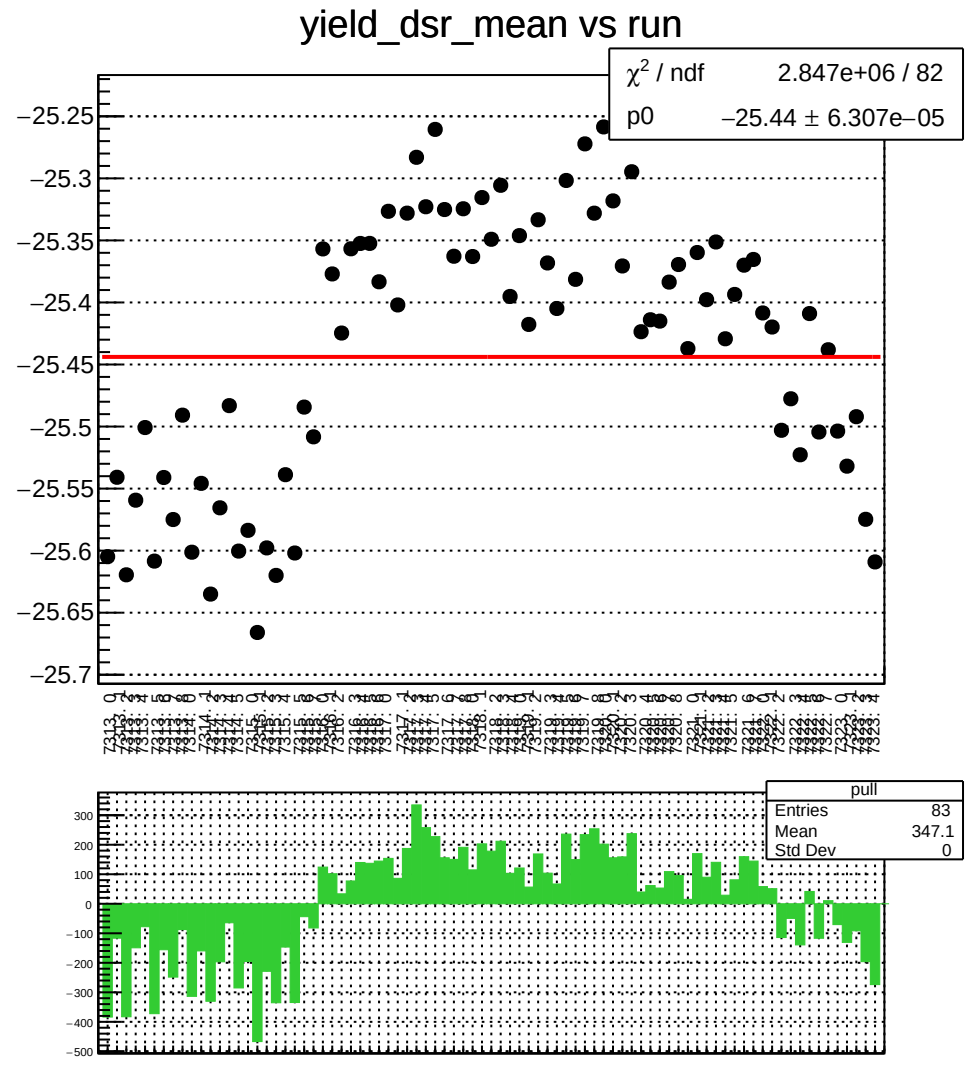

pull1D
Entries 83
Mean 0.1595
Std Dev 4.991
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

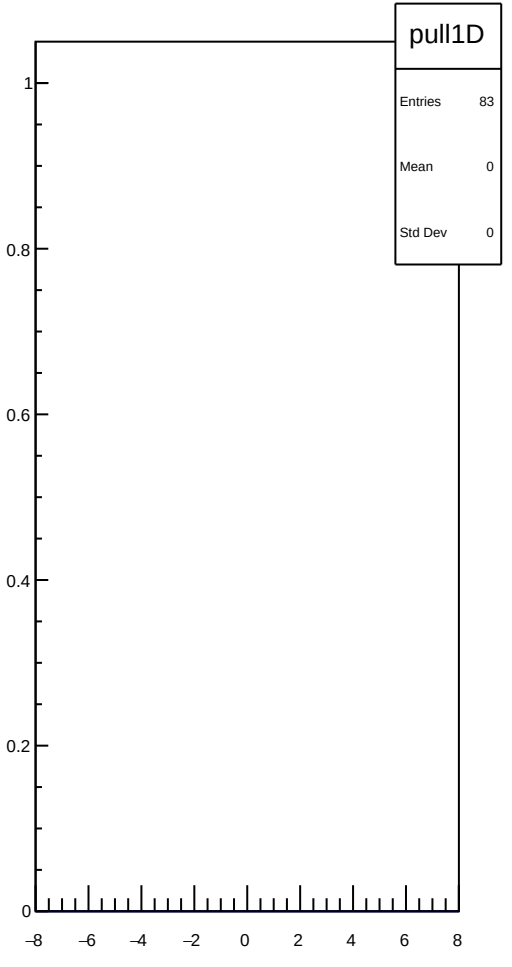

yield_usr_rms vs run
χ² / ndf 1.048e+05 / 82
p0 0.0796 ± 6.485e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

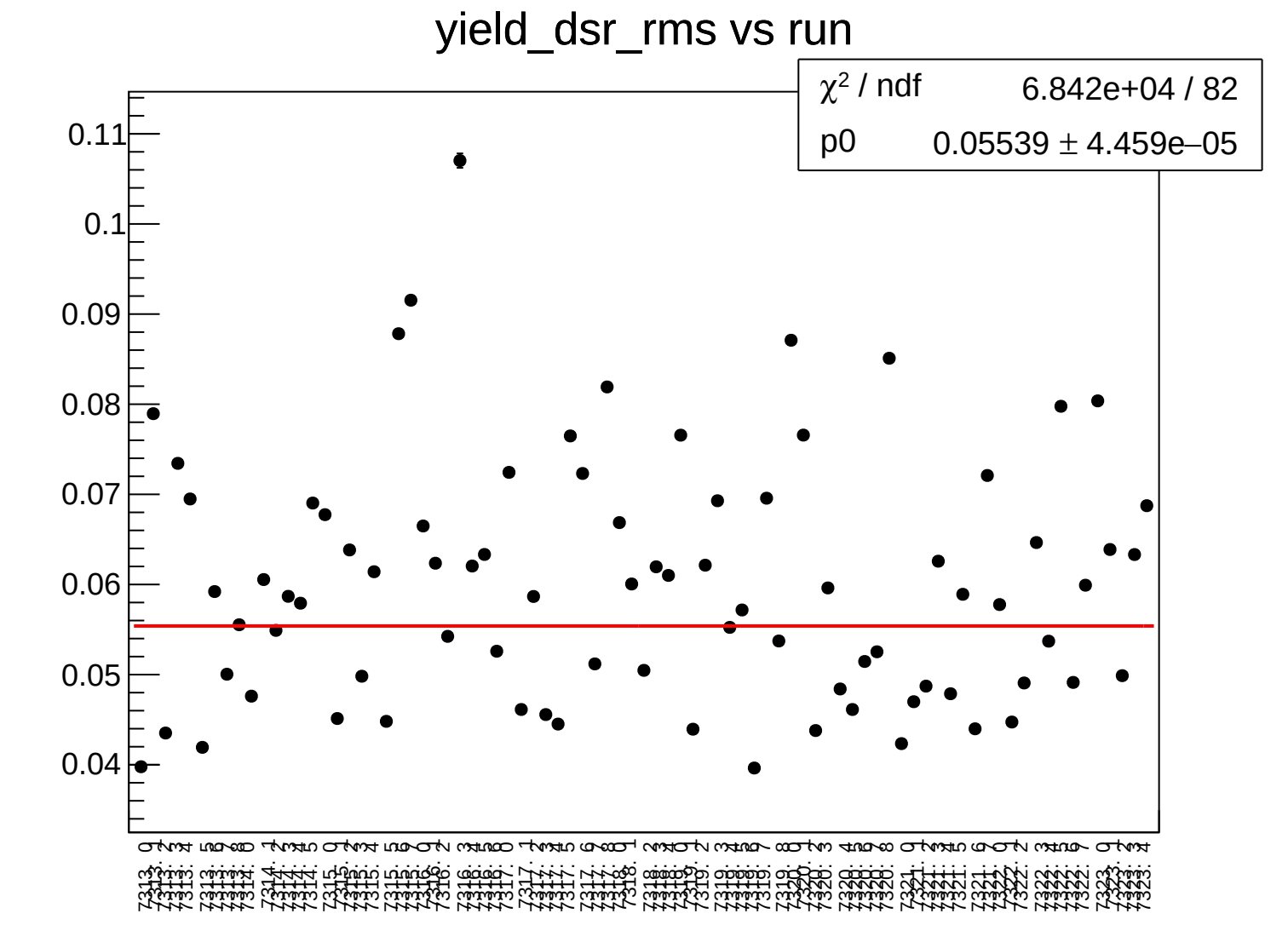

yield_dsl_mean vs run
χ² / ndf 7.171e+06 / 82
p0 −23.23 ± 4.914e−05
−23
−23.1
−23.2
−23.3
−23.4
−23.5
pull
Entries 83
Mean −4539
Std Dev 0
400
200
0
−200
−400
−600

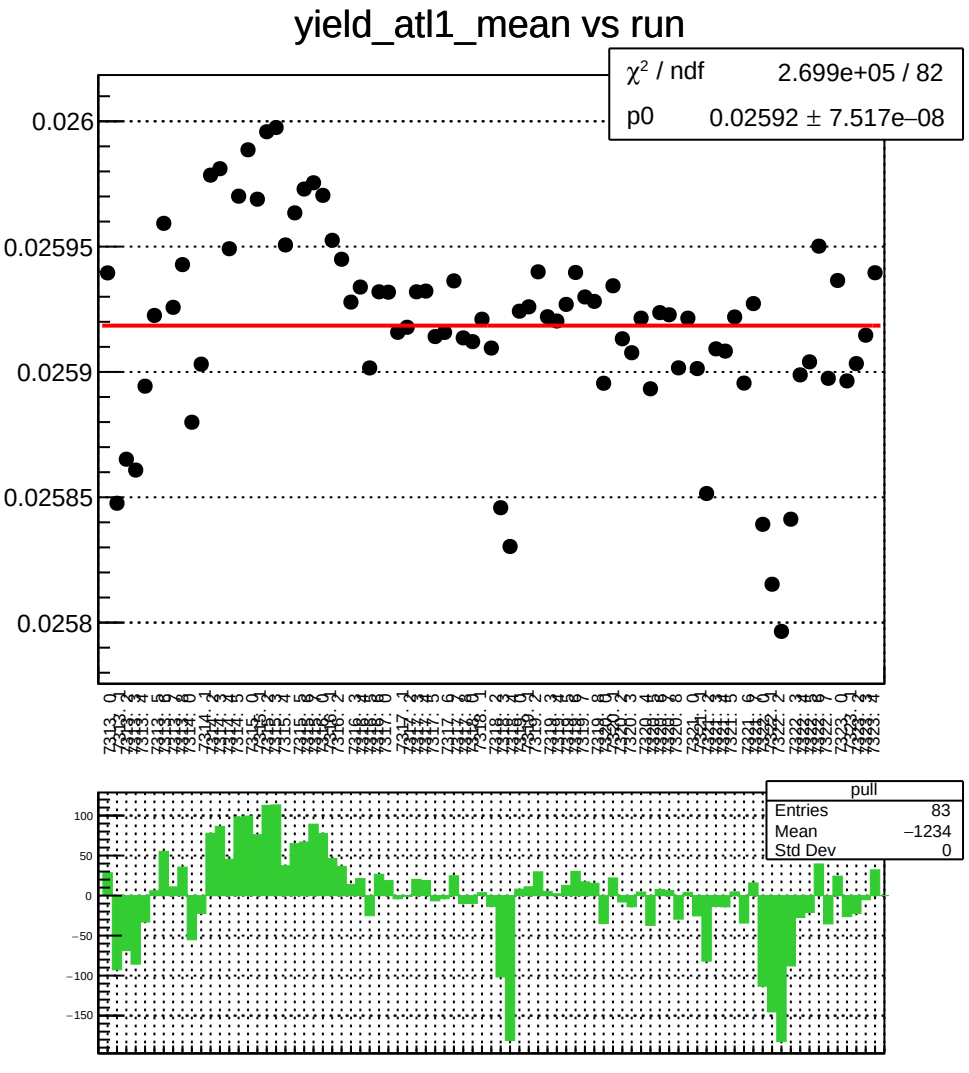

pull1D
Entries 83
Mean −0.6984
Std Dev 4.555
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

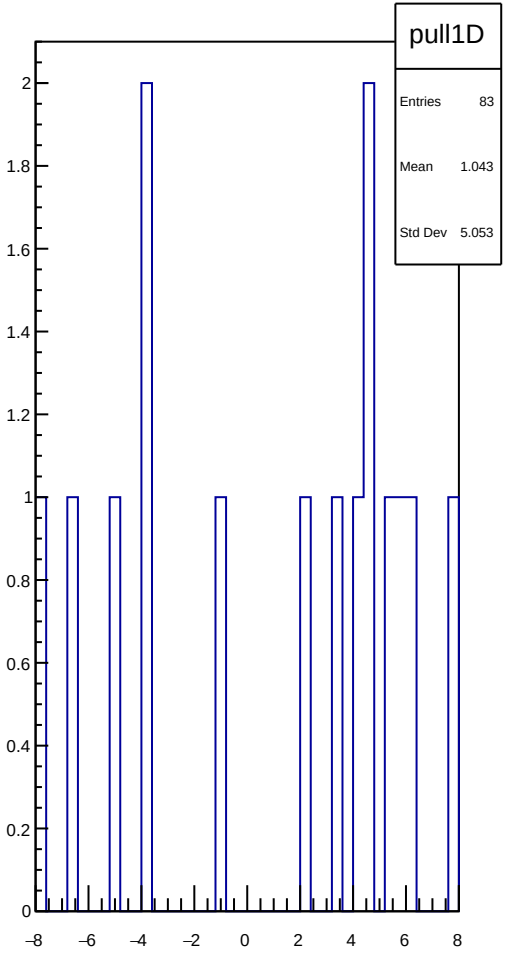

yield_dsl_rms vs run
χ² / ndf 1.898e+04 / 82
p0 0.04385 ± 3.475e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

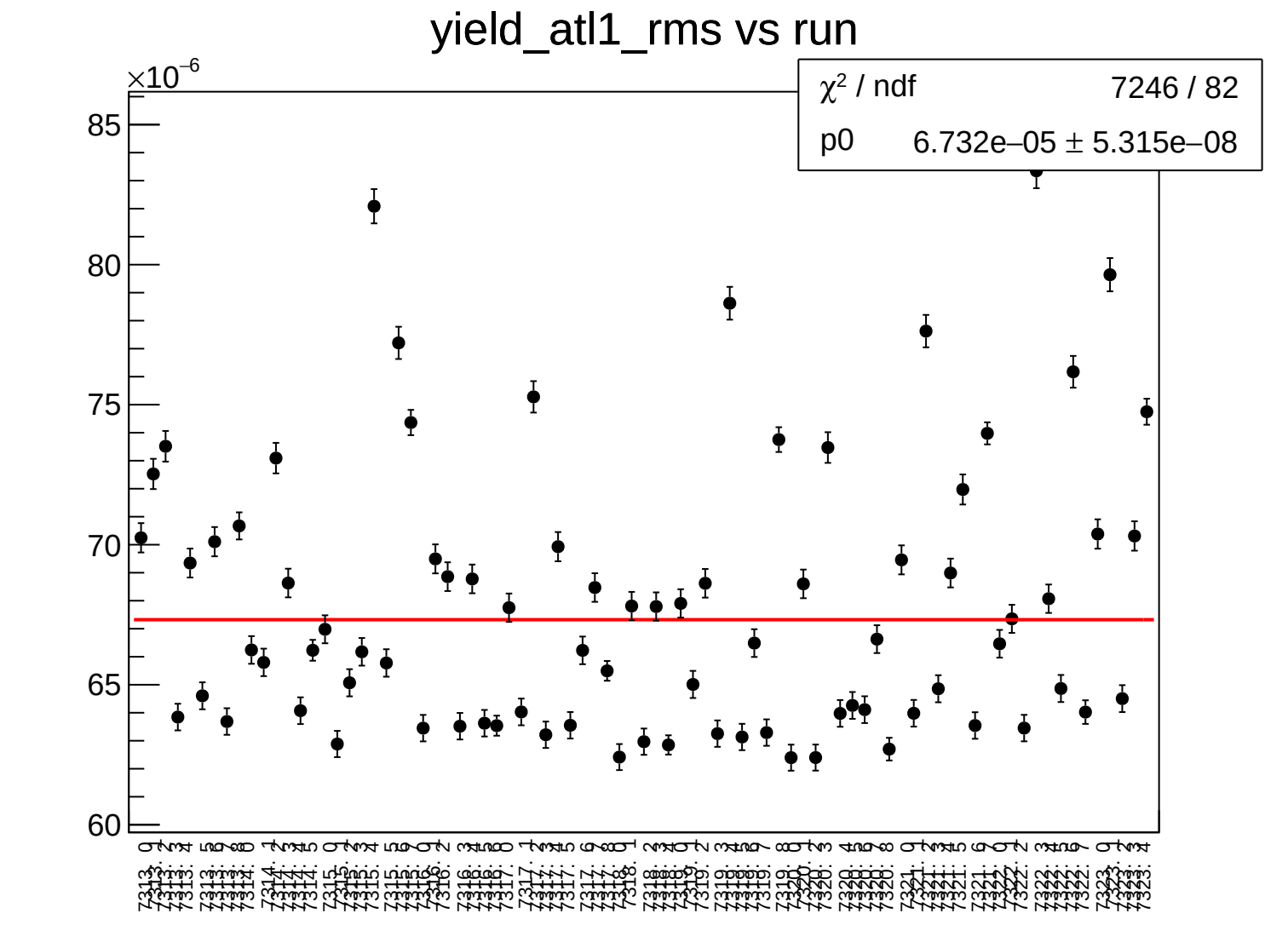

yield_dsr_mean vs run
χ² / ndf 2.847e+06 / 82
p0 −25.44 ± 6.307e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
−25.7
pull
Entries 83
Mean 347.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

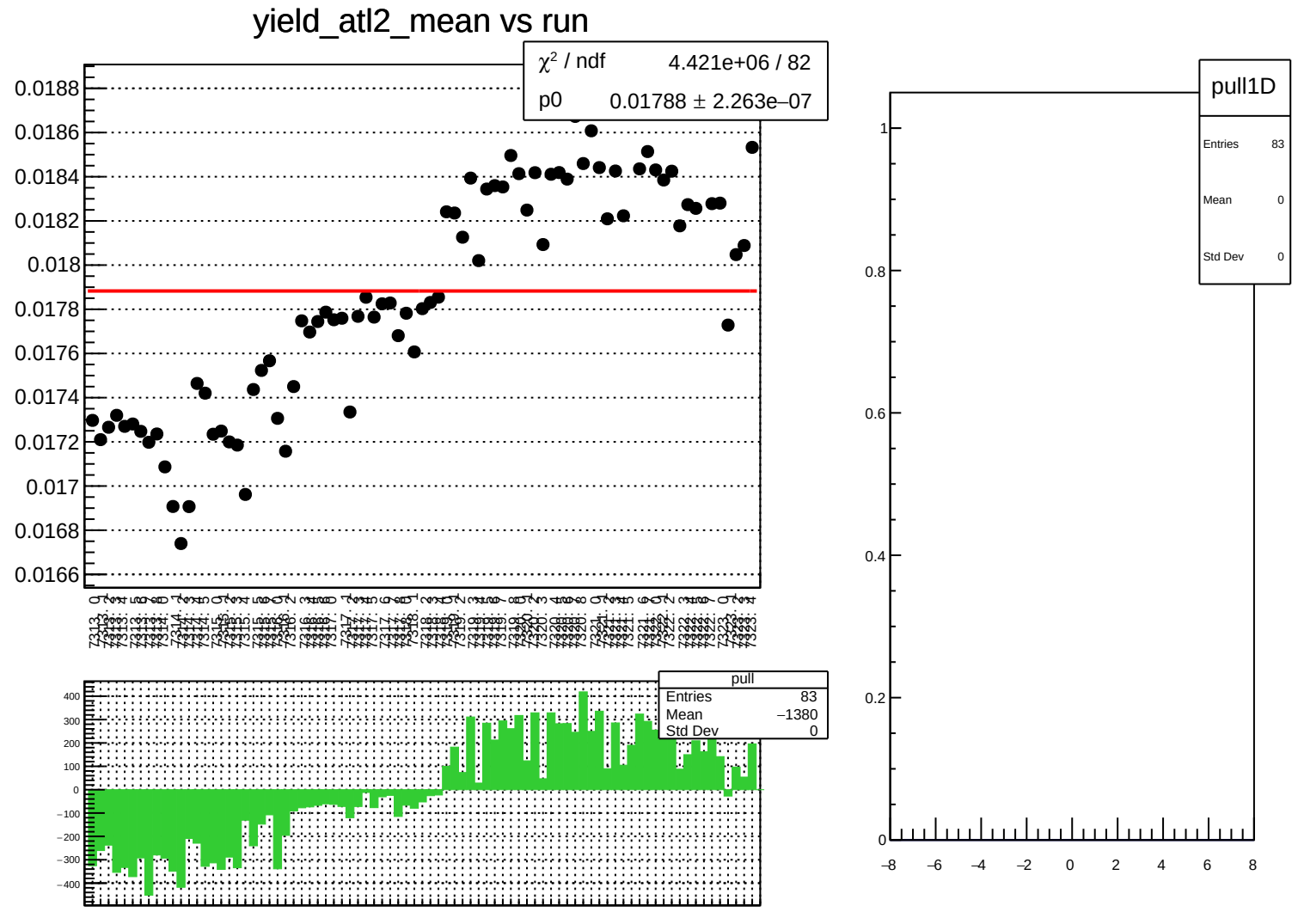

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

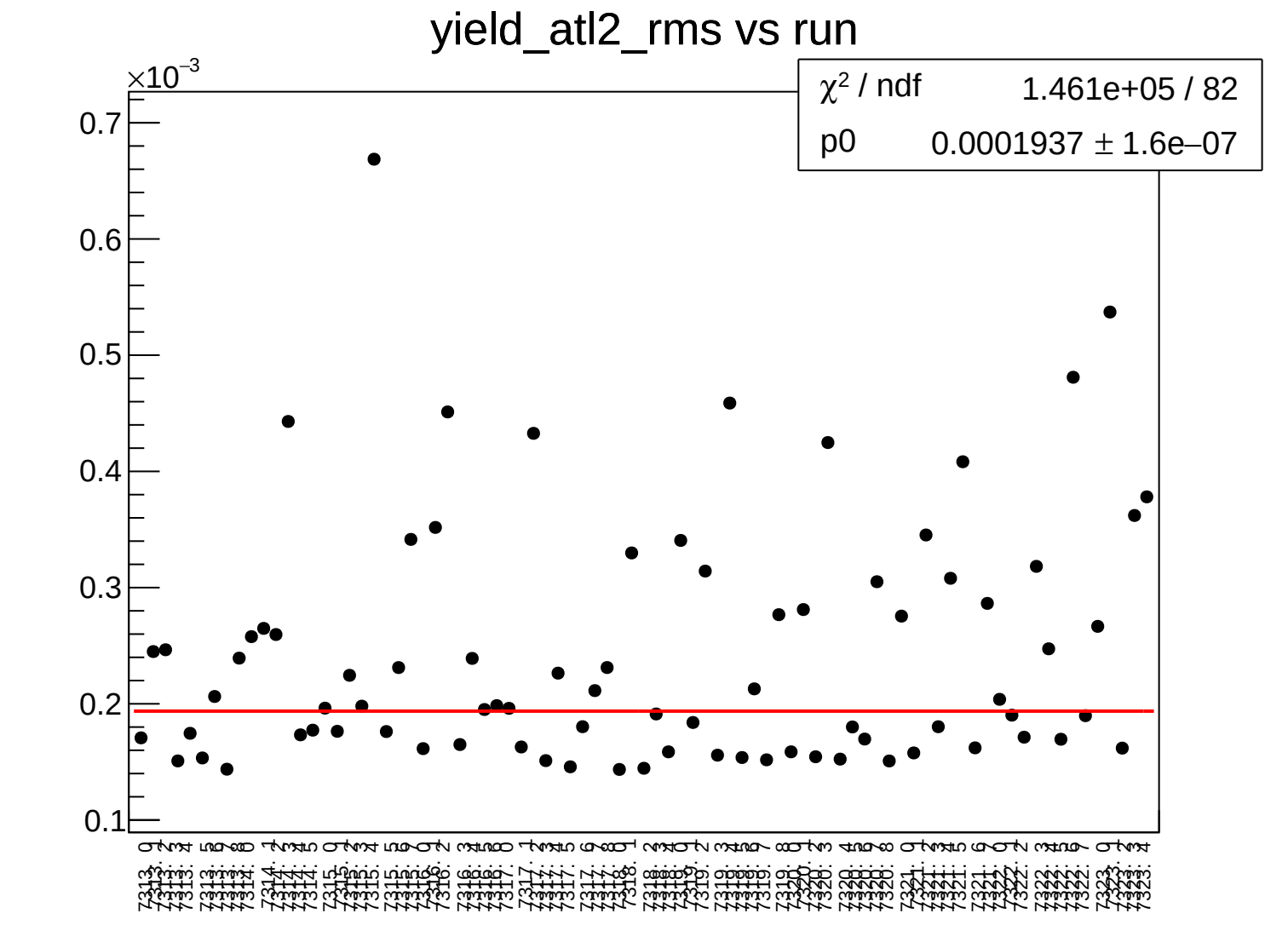

yield_dsr_rms vs run
χ² / ndf 6.842e+04 / 82
p0 0.05539 ± 4.459e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

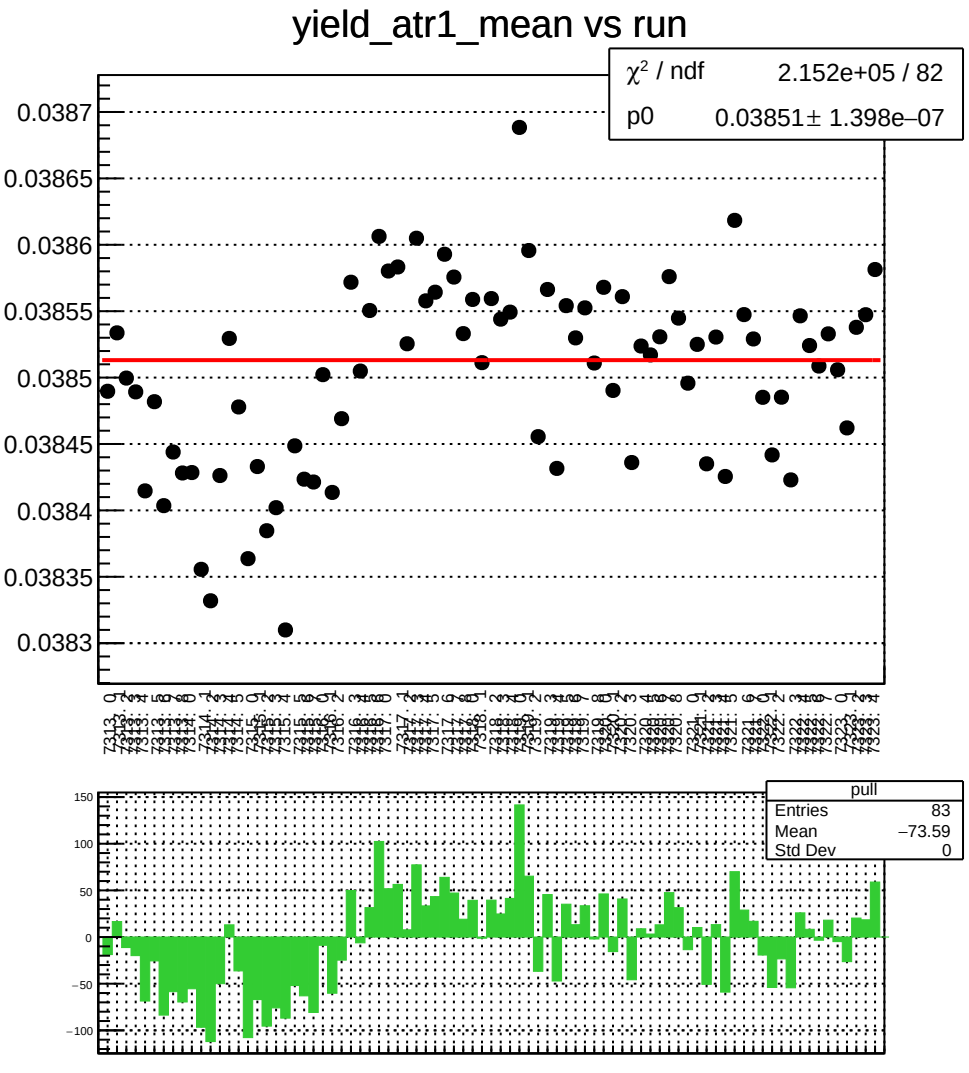

yield_atl1_mean vs run
χ² / ndf 2.699e+05 / 82
p0 0.02592 ± 7.517e−08
0.026
0.02595
0.0259
0.02585
0.0258
pull
Entries 83
Mean −1234
Std Dev 0
100
50
0
−50
−100
−150

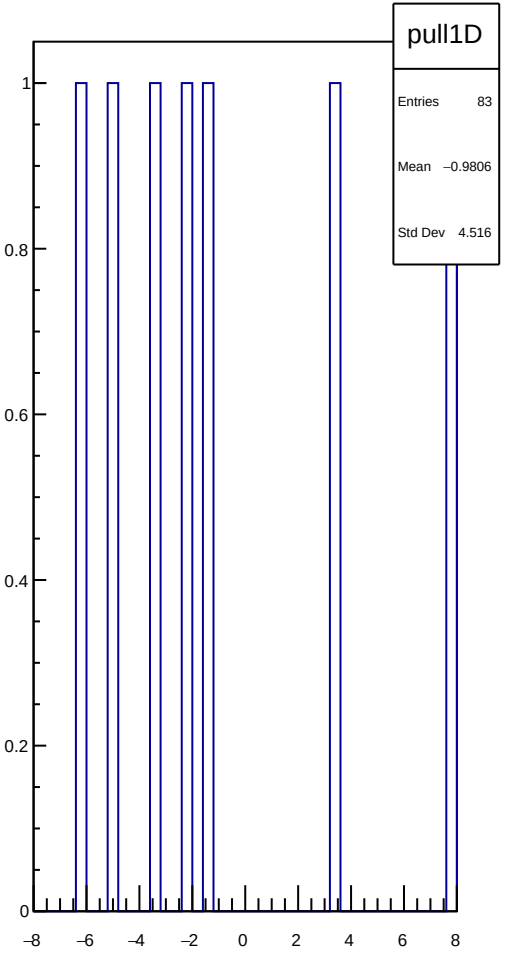

pull1D
Entries 83
Mean 1.043
Std Dev 5.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

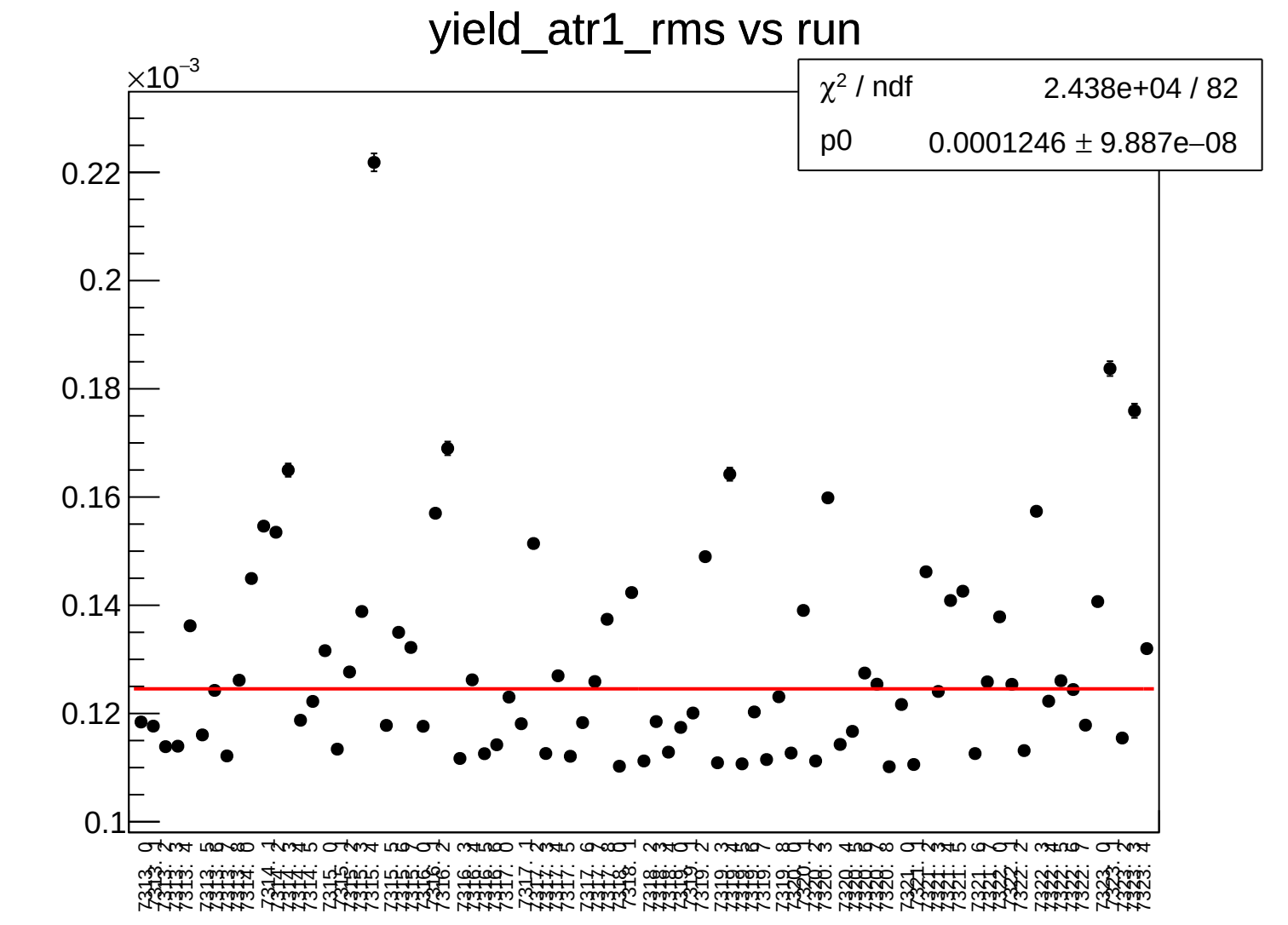

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 7246 / 82
p0 6.732e−05 ± 5.315e−08
85
80
75
70
65
60

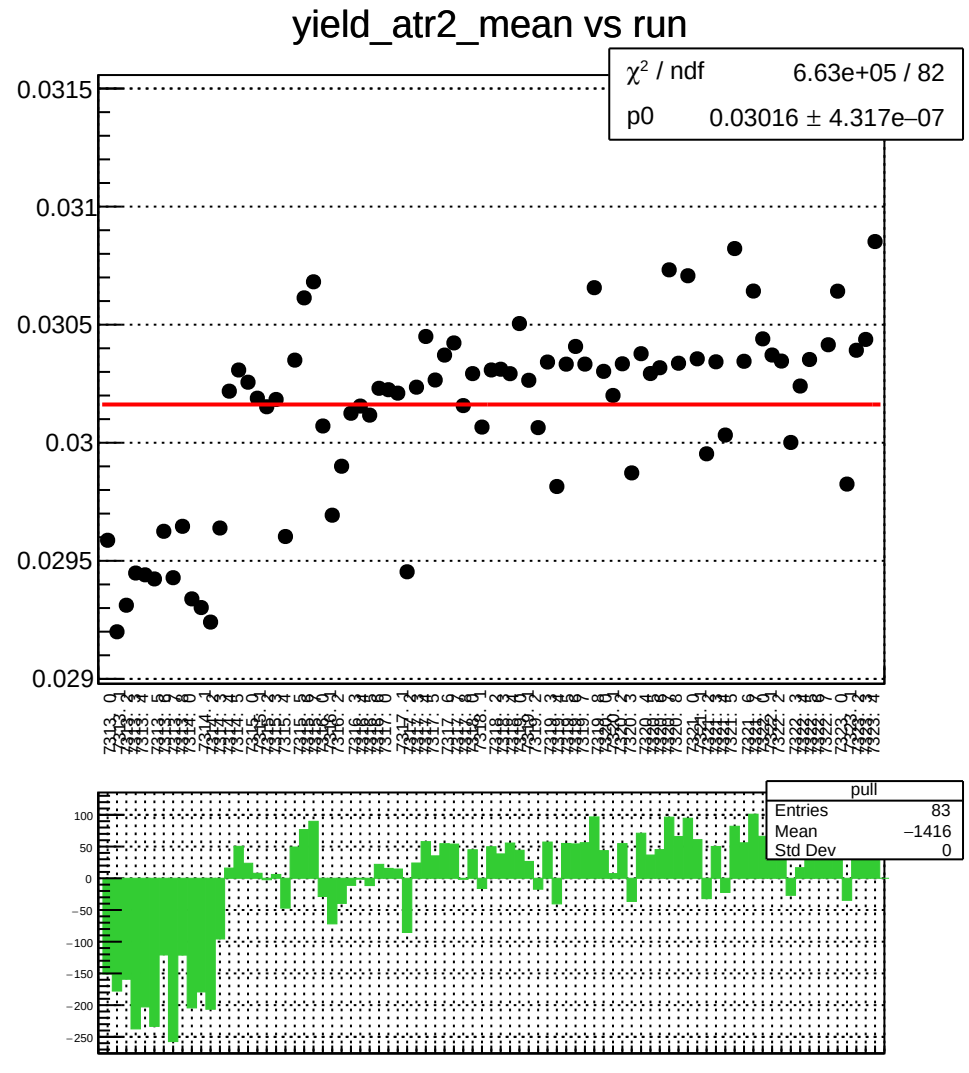

yield_atl2_mean vs run
χ² / ndf 4.421e+06 / 82
p0 0.01788 ± 2.263e−07
0.0188
0.0186
0.0184
0.0182
0.018
0.0178
0.0176
0.0174
0.0172
0.017
0.0168
0.0166
pull
Entries 83
Mean −1380
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

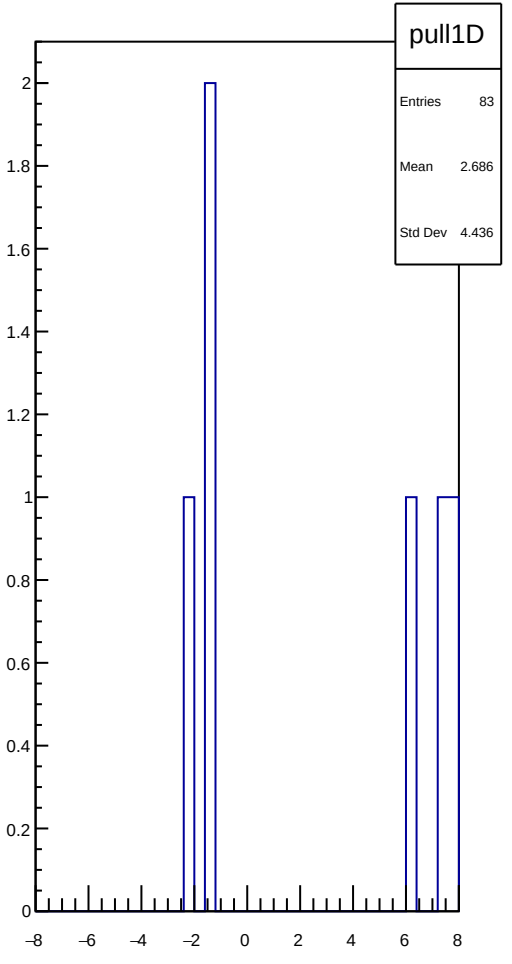

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.461e+05 / 82
p0 0.0001937 ± 1.6e–07
0.7
0.6
0.5
0.4
0.3
0.2
0.1

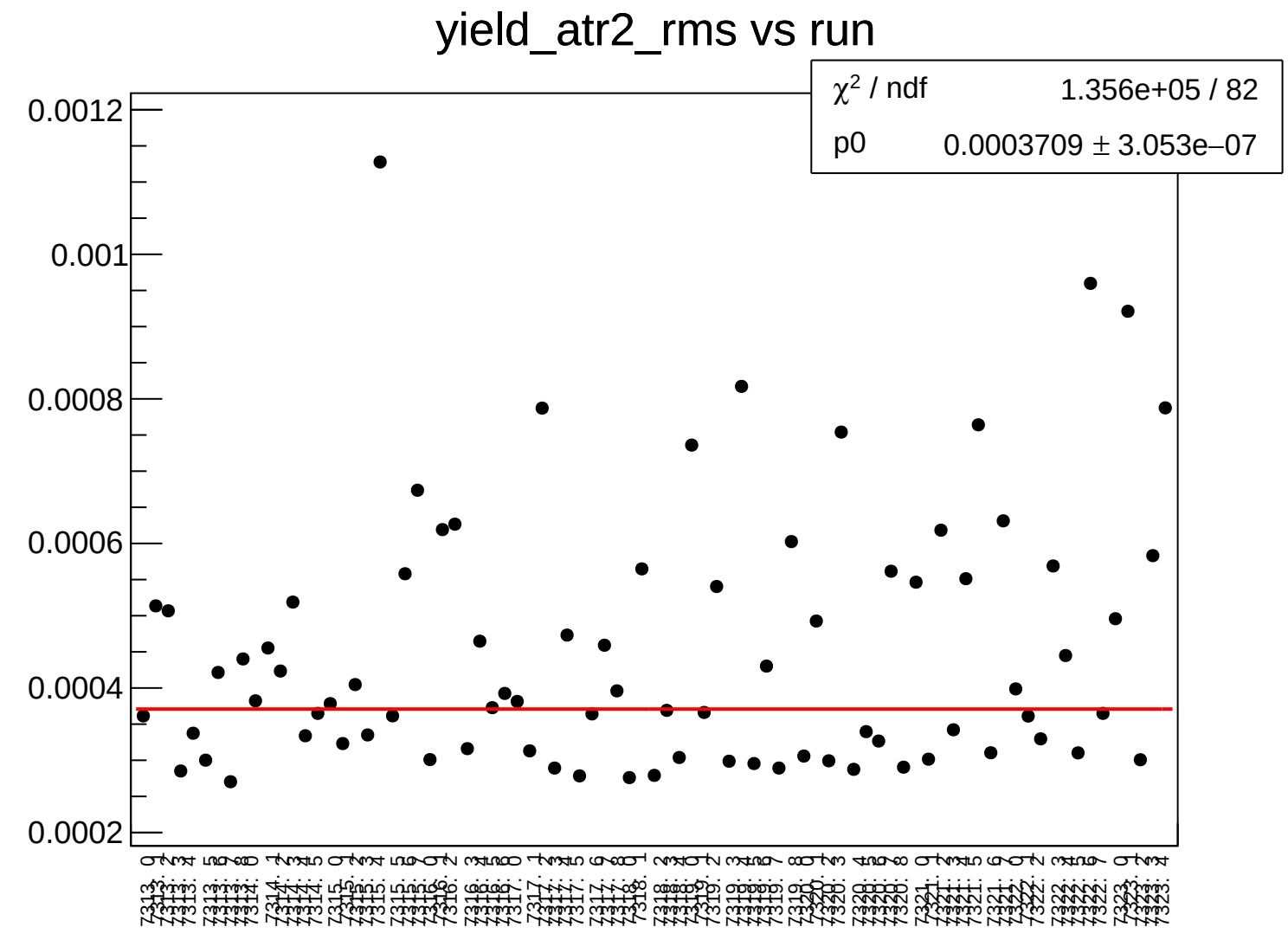

yield_atr1_mean vs run
χ² / ndf 2.152e+05 / 82
p0 0.03851± 1.398e–07
0.0387
0.03865
0.0386
0.03855
0.0385
0.03845
0.0384
0.03835
0.0383
pull
Entries 83
Mean –73.59
Std Dev 0
150
100
50
0
–50
–100

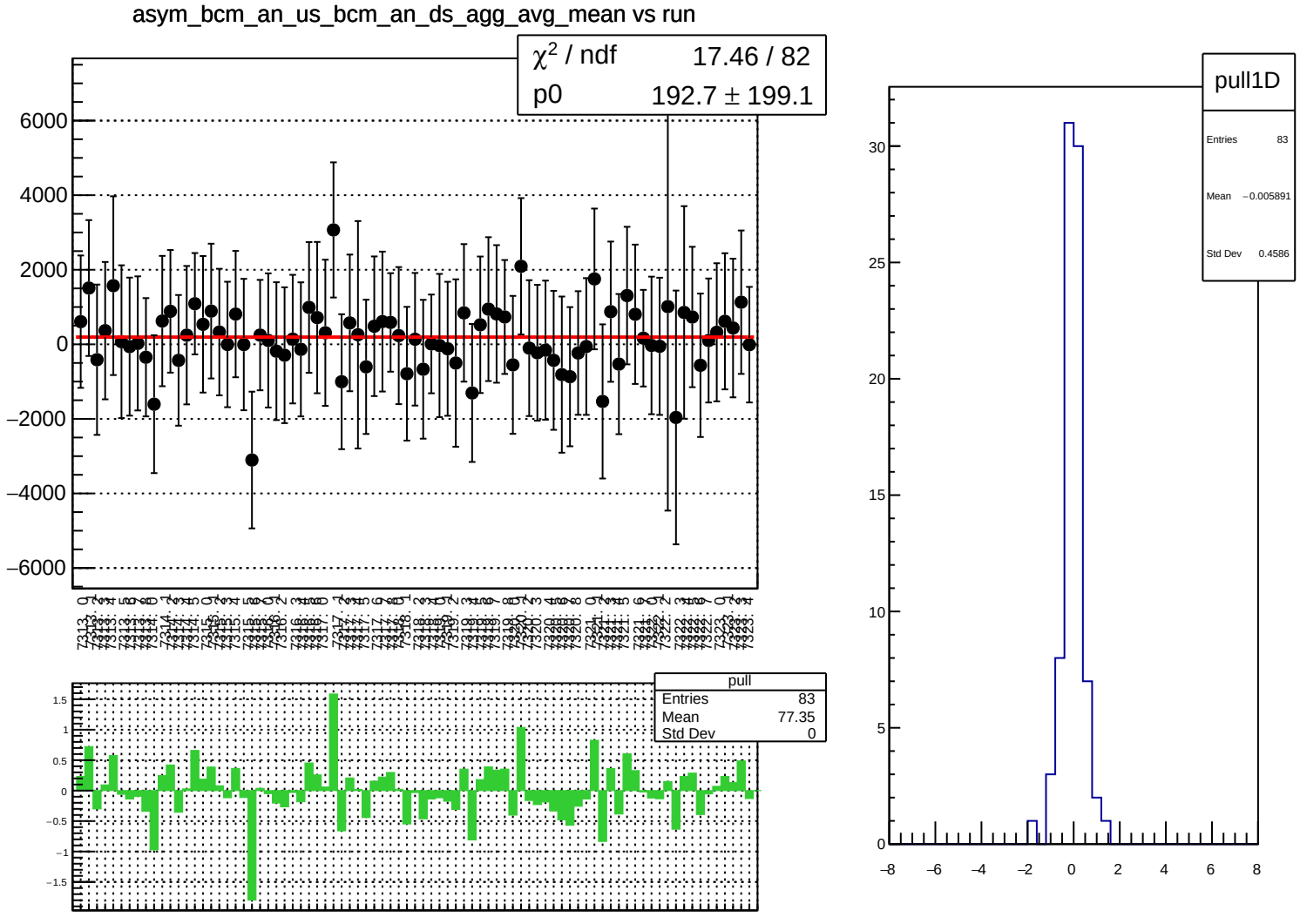

pull1D
Entries 83
Mean –0.9806
Std Dev 4.516
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

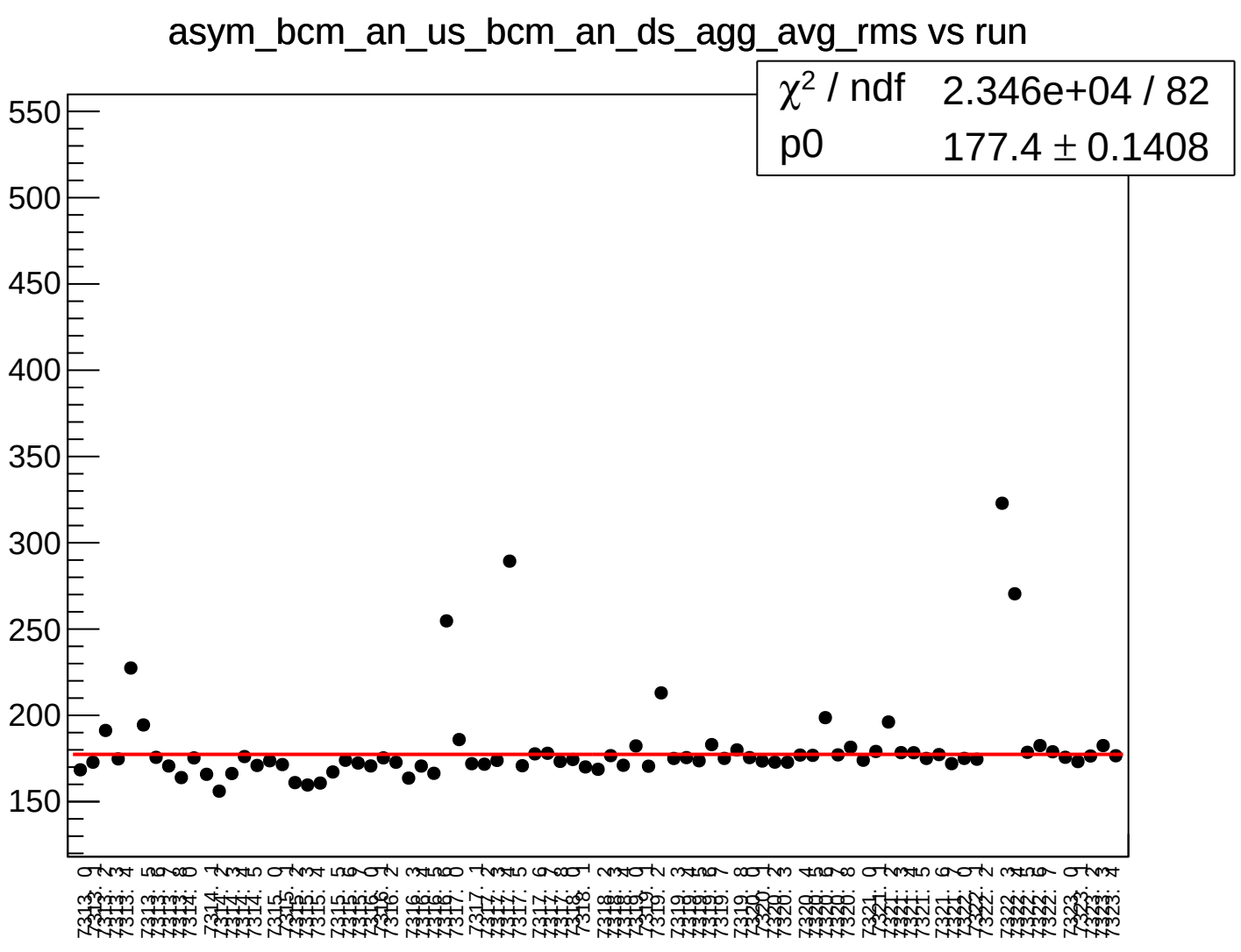

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.438e+04 / 82
p0 0.0001246 ± 9.887e−08
0.22
0.2
0.18
0.16
0.14
0.12
0.1

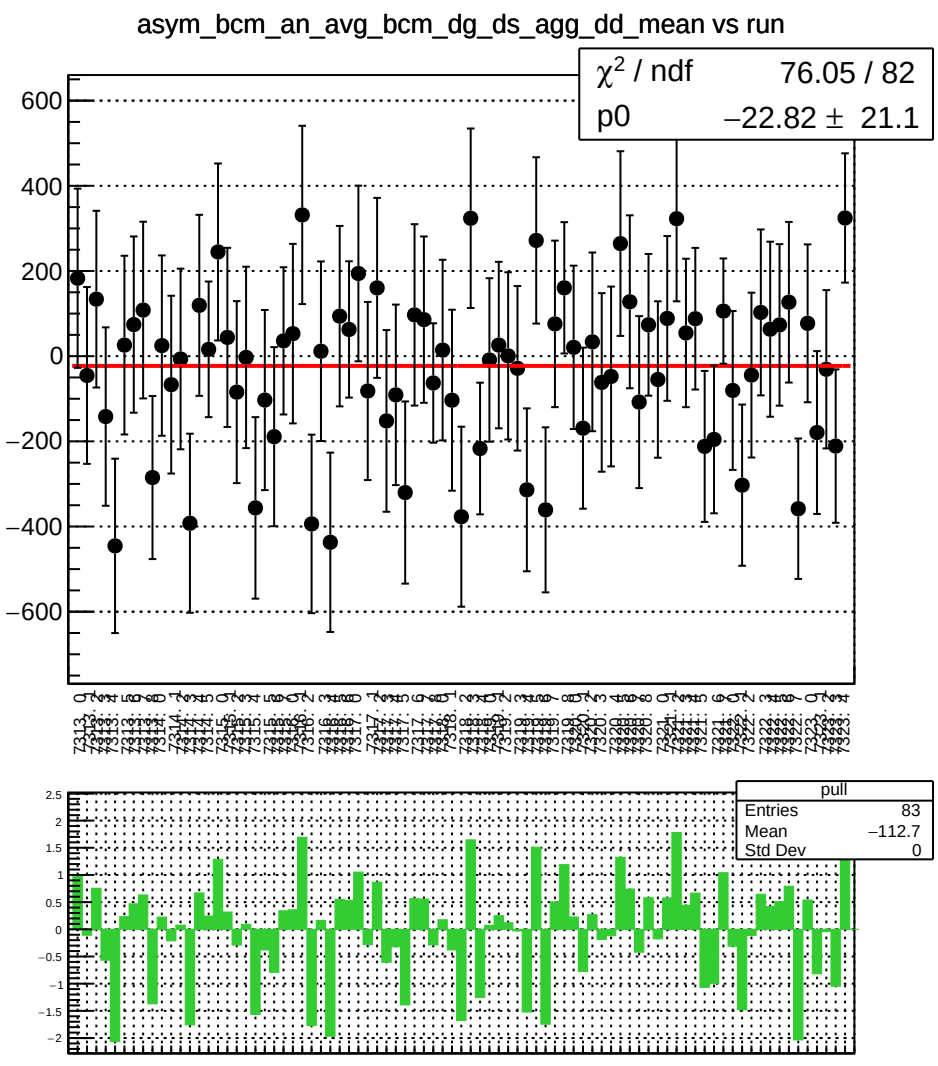

yield_atr2_mean vs run
χ² / ndf 6.63e+05 / 82
p0 0.03016 ± 4.317e−07
0.0315
0.031
0.0305
0.03
0.0295
0.029
pull
Entries 83
Mean −1416
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

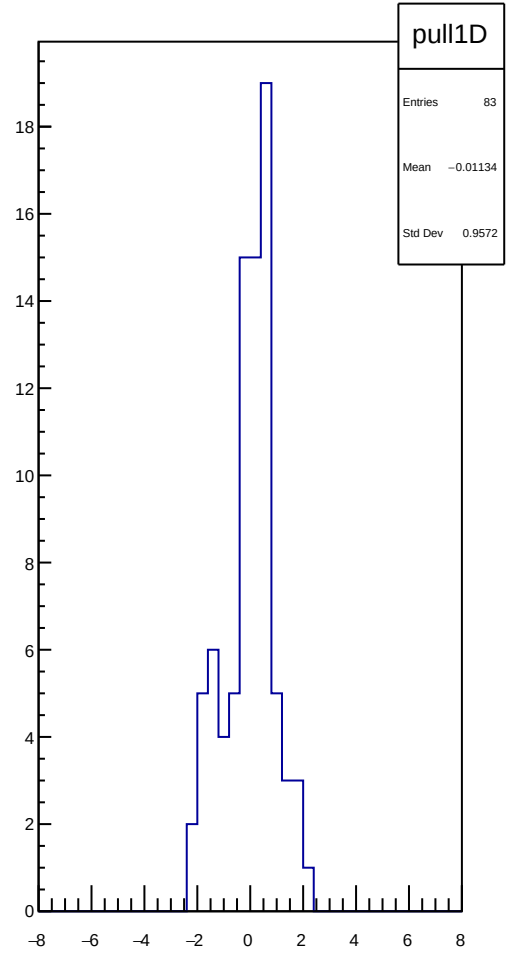

pull1D
Entries 83
Mean 2.686
Std Dev 4.436
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

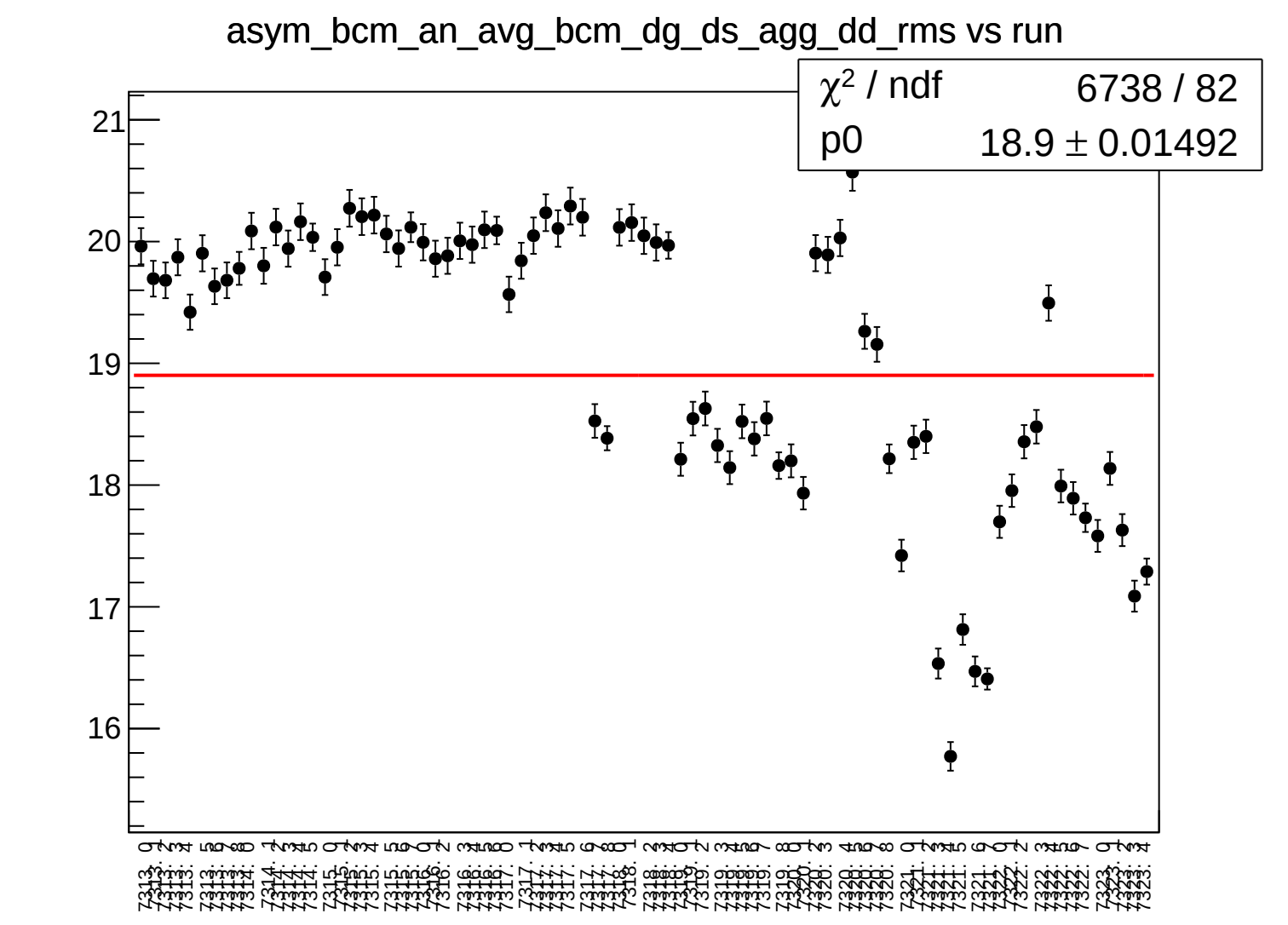

yield_atr2_rms vs run
χ² / ndf 1.356e+05 / 82
p0 0.0003709 ± 3.053e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

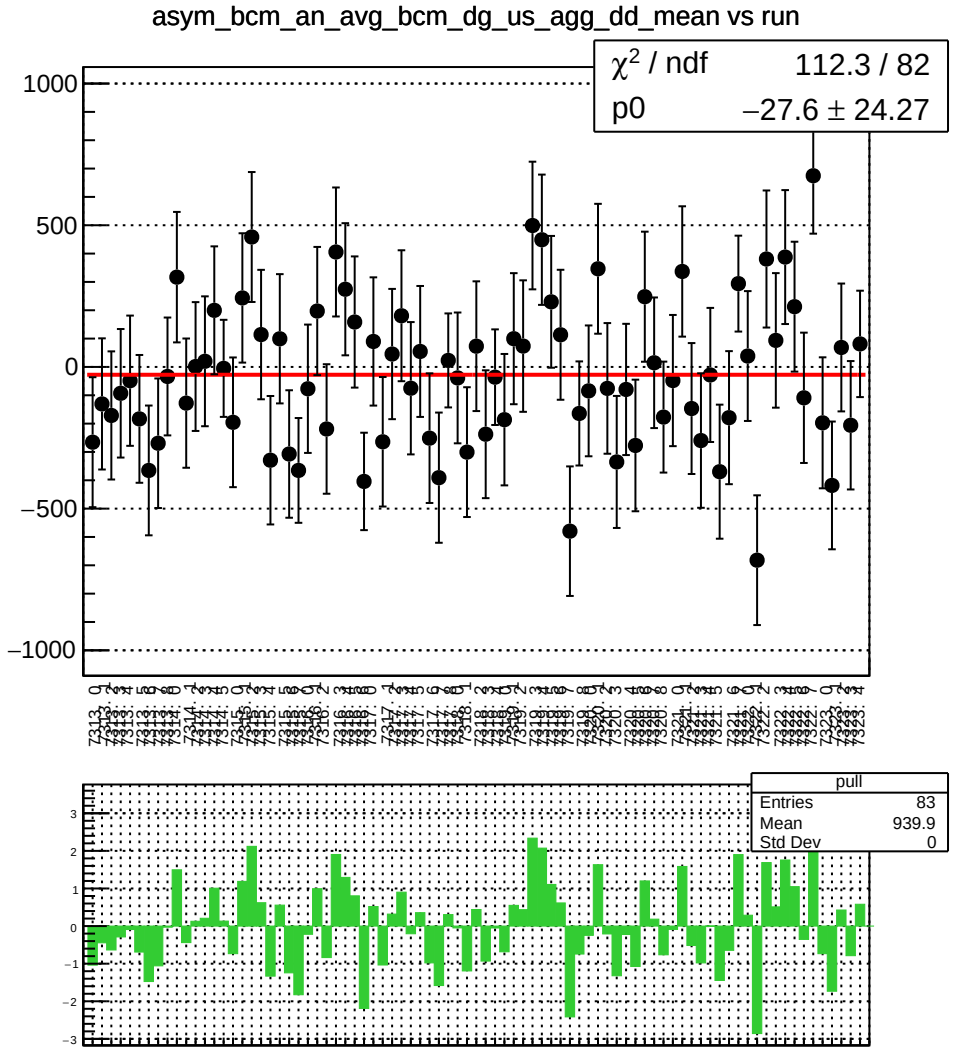

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.46 / 82
p0 192.7 ± 199.1
pull
Entries 83
Mean 77.35
Std Dev 0
pull1D
Entries 83
Mean −0.005891
Std Dev 0.4586

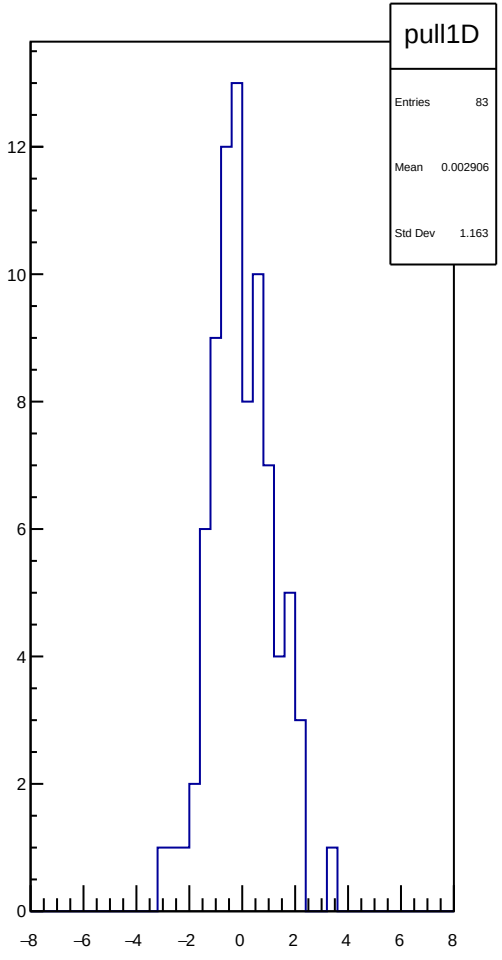

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.346e+04 / 82
p0 177.4 ± 0.1408
550
500
450
400
350
300
250
200
150

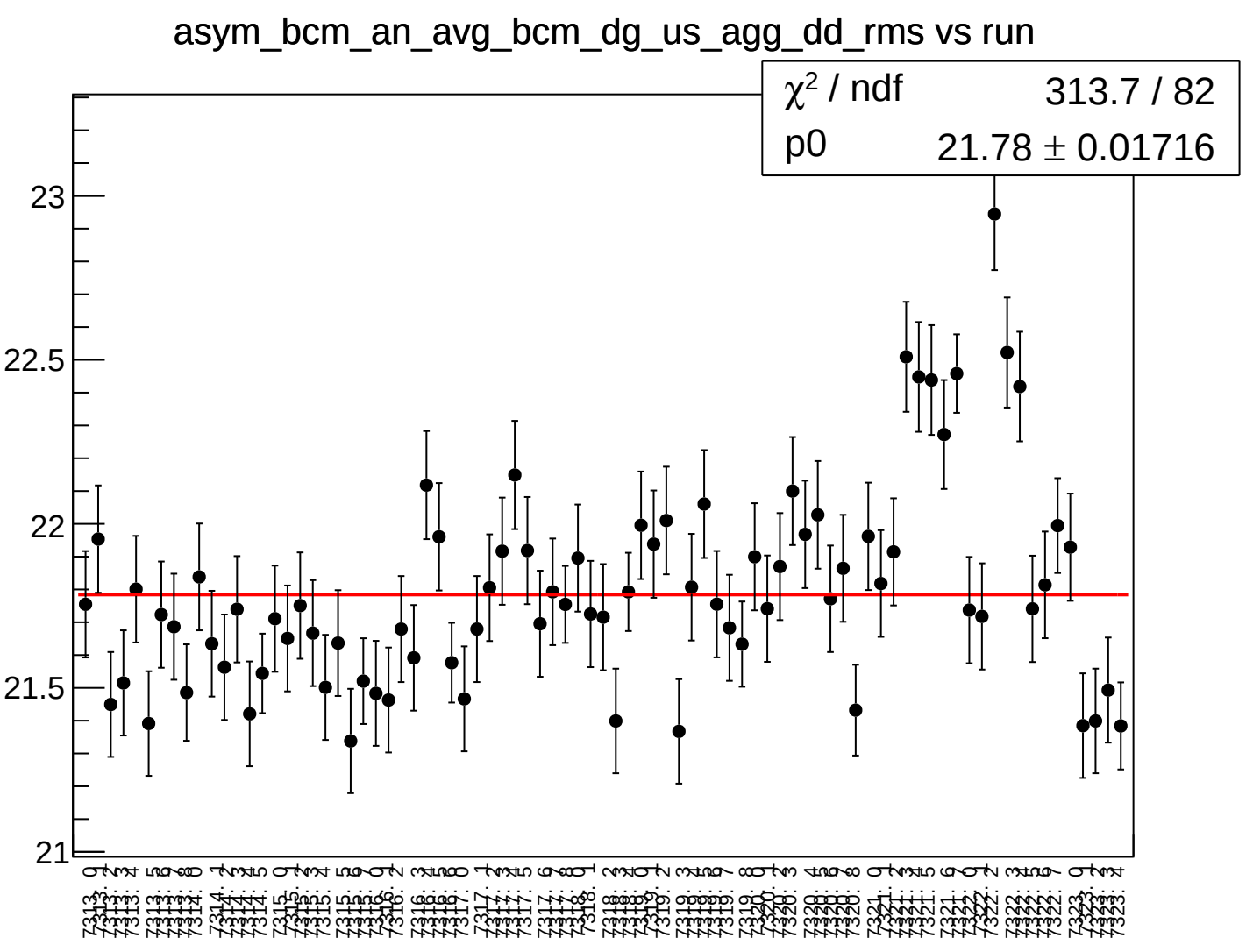

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.05 / 82
p0 −22.82 ± 21.1
pull
Entries 83
Mean −112.7
Std Dev 0

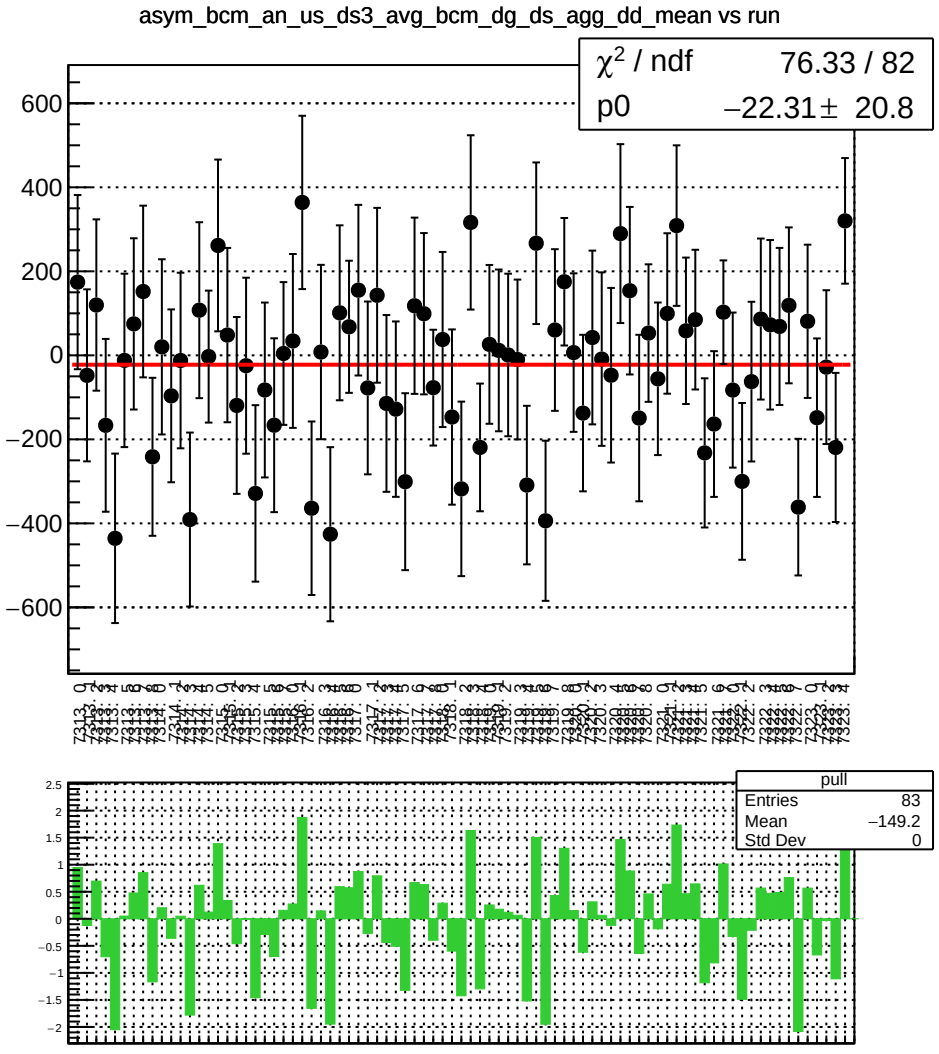

pull1D
Entries 83
Mean −0.01134
Std Dev 0.9572

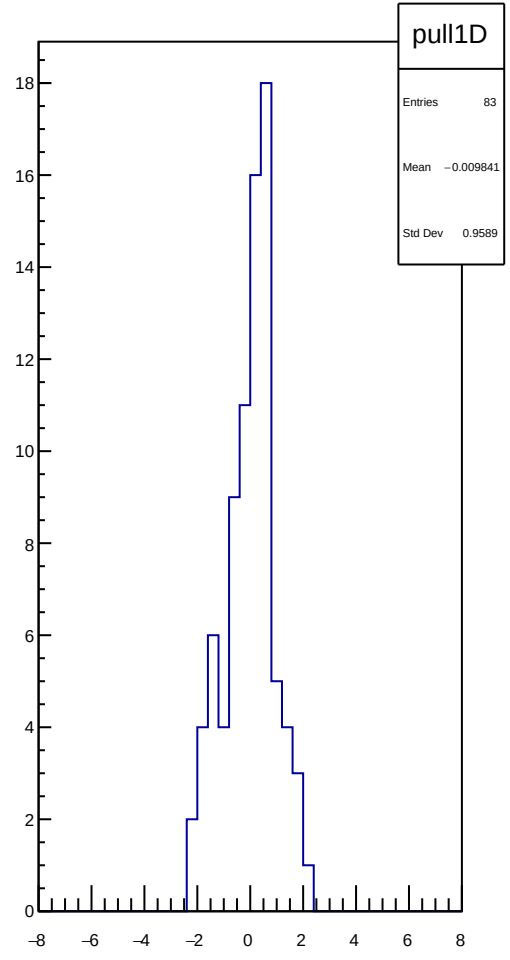

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6738 / 82
p0 18.9 ± 0.01492
21
20
19
18
17
16

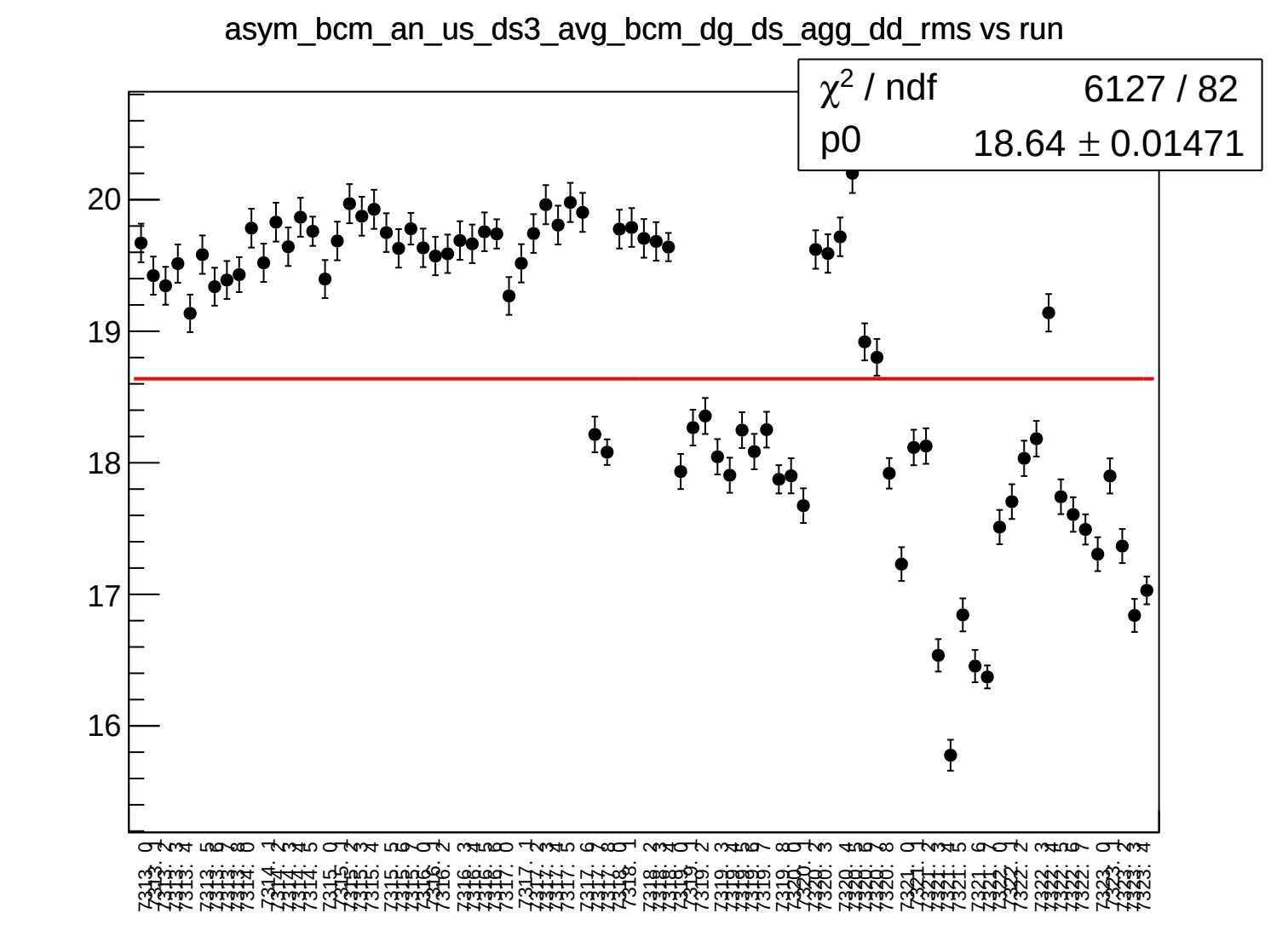

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 112.3 / 82
p0 −27.6 ± 24.27
pull
Entries 83
Mean 939.9
Std Dev 0

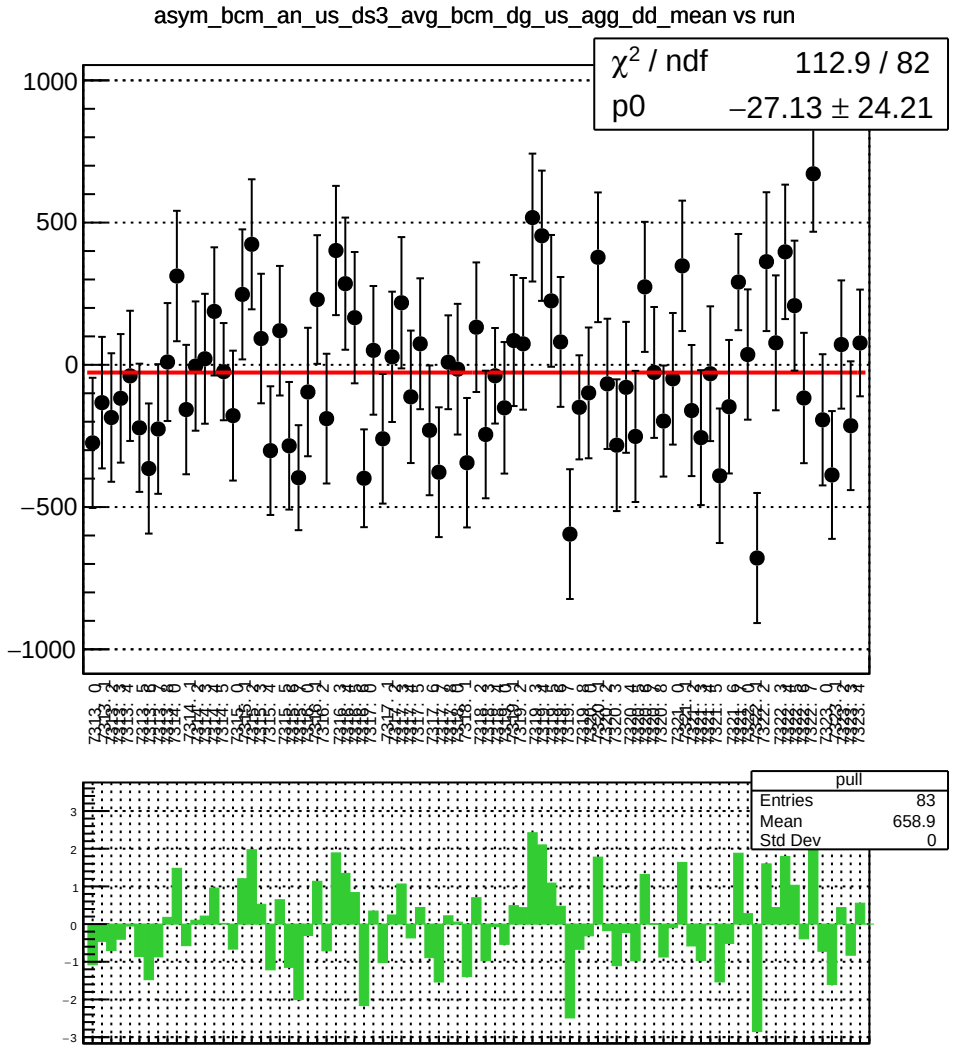

pull1D
Entries 83
Mean 0.002906
Std Dev 1.163

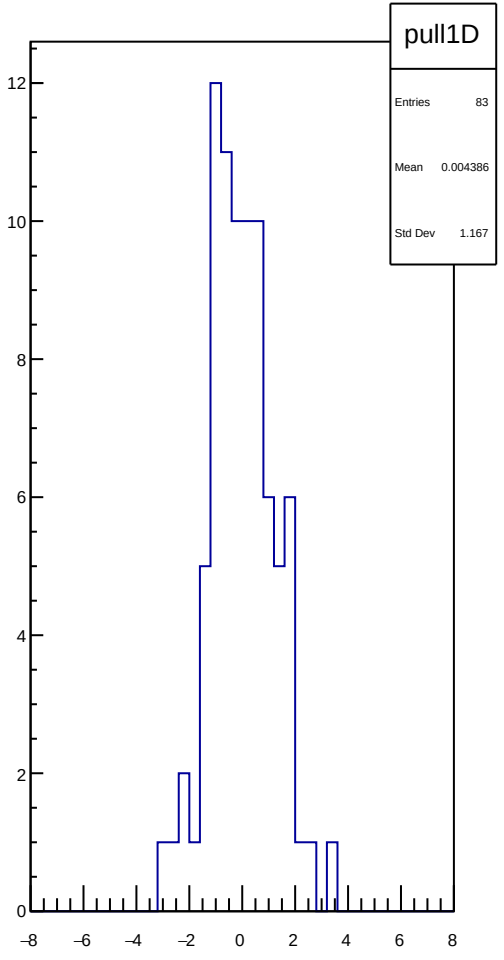

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 313.7 / 82
p0 21.78 ± 0.01716
23
22.5
22
21.5
21

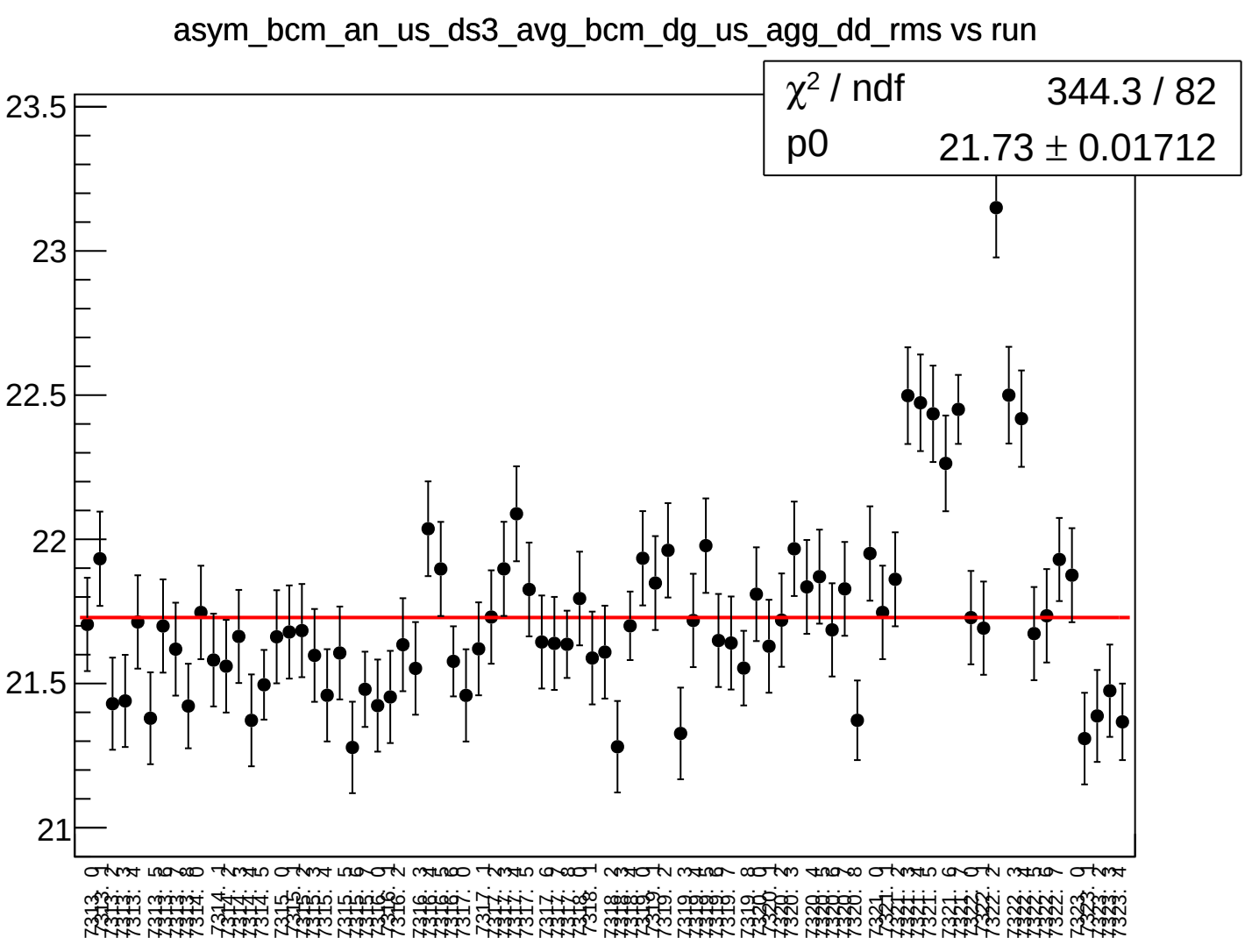

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.33 / 82
p0 −22.31 ± 20.8
pull
Entries 83
Mean −149.2
Std Dev 0

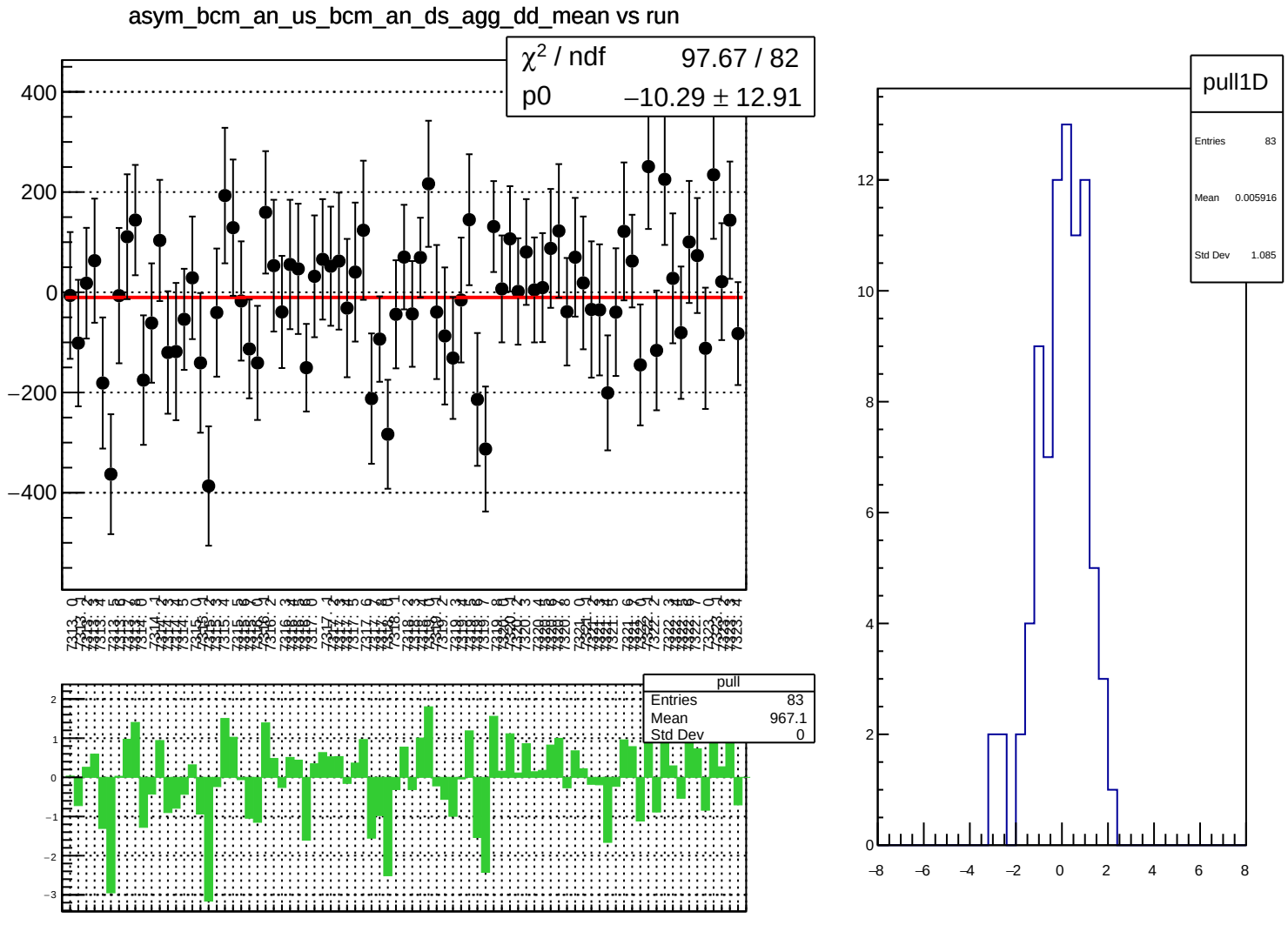

pull1D
Entries 83
Mean −0.009841
Std Dev 0.9589

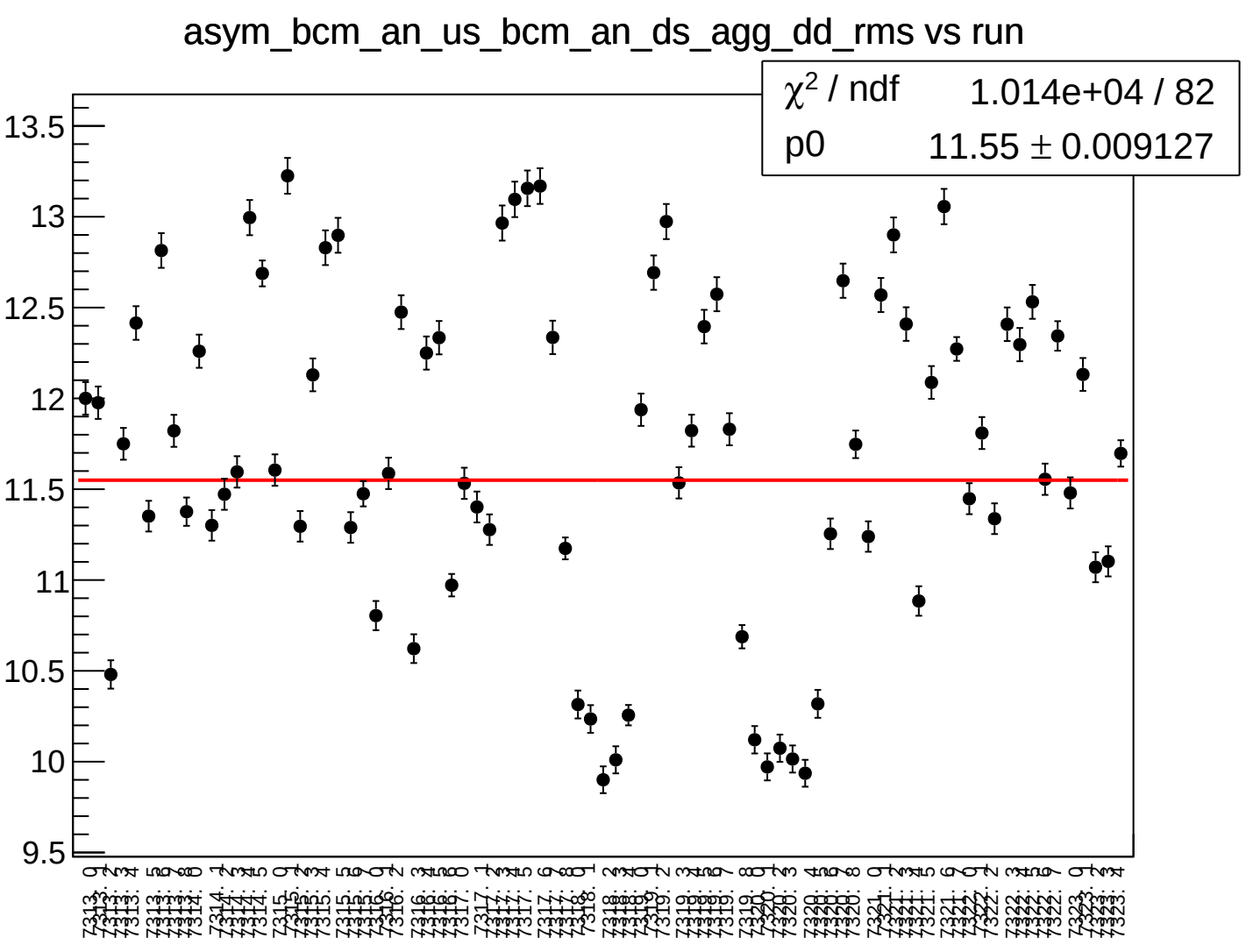

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6127 / 82
p0 18.64 ± 0.01471
20
19
18
17
16

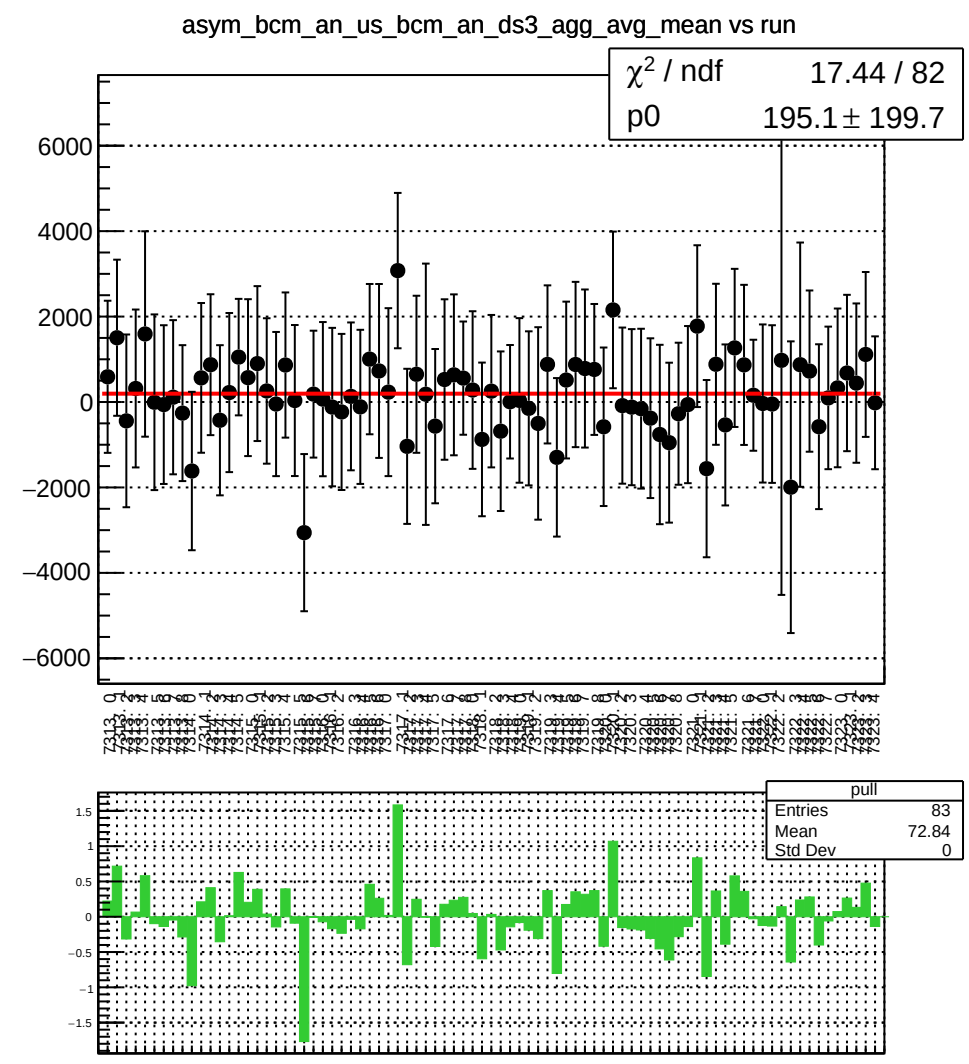

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 112.9 / 82
p0 −27.13 ± 24.21
1000
500
0
−500
−1000
pull
Entries 83
Mean 658.9
Std Dev 0
3
2
1
0
−1
−2
−3

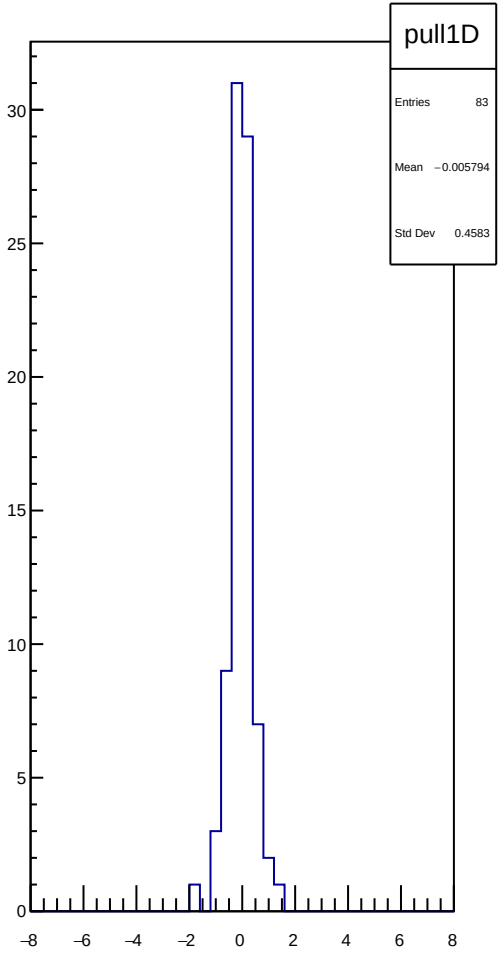

pull1D
Entries 83
Mean 0.004386
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

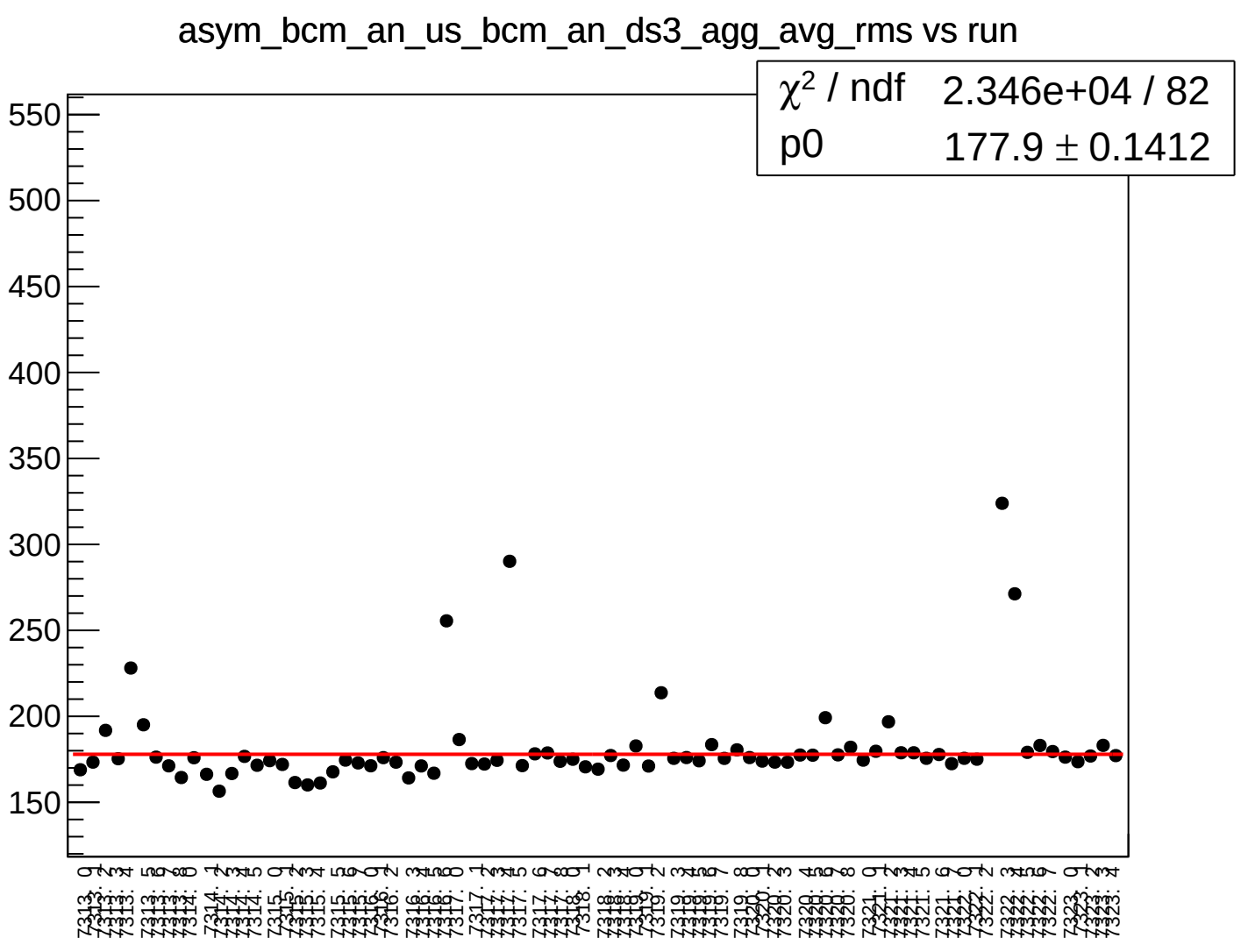

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 344.3 / 82
p0 21.73 ± 0.01712
23.5
23
22.5
22
21.5
21

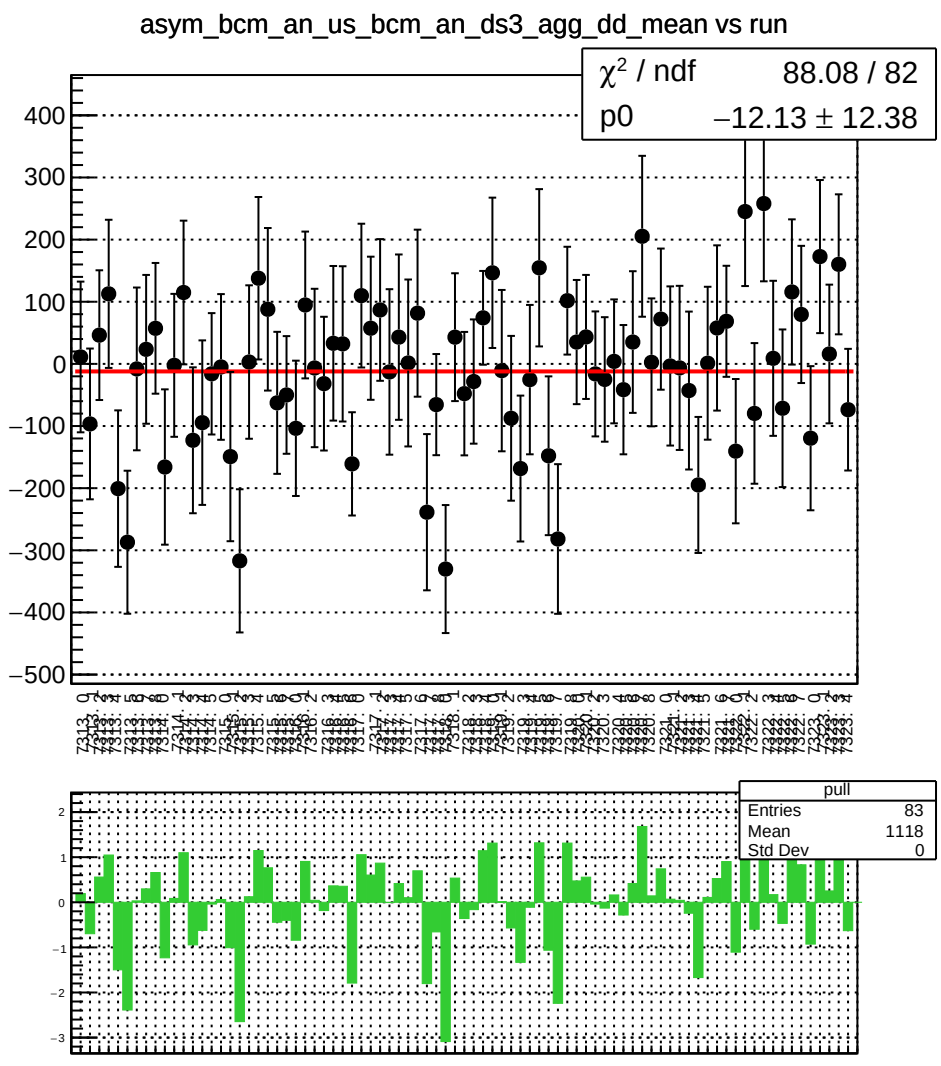

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 97.67 / 82
p0 −10.29 ± 12.91
400
200
0
−200
−400
pull
Entries 83
Mean 967.1
Std Dev 0
pull1D
Entries 83
Mean 0.005916
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

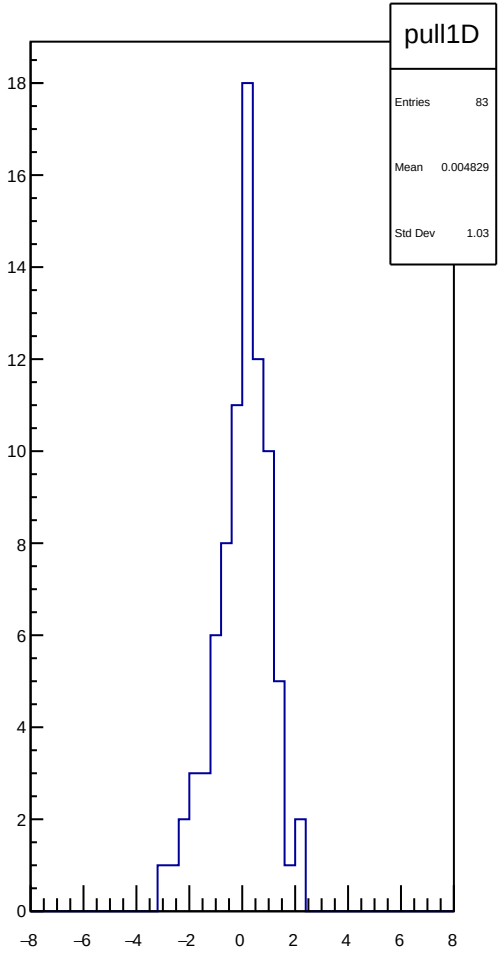

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.014e+04 / 82
p0 11.55 ± 0.009127
13.5
13
12.5
12
11.5
11
10.5
10
9.5

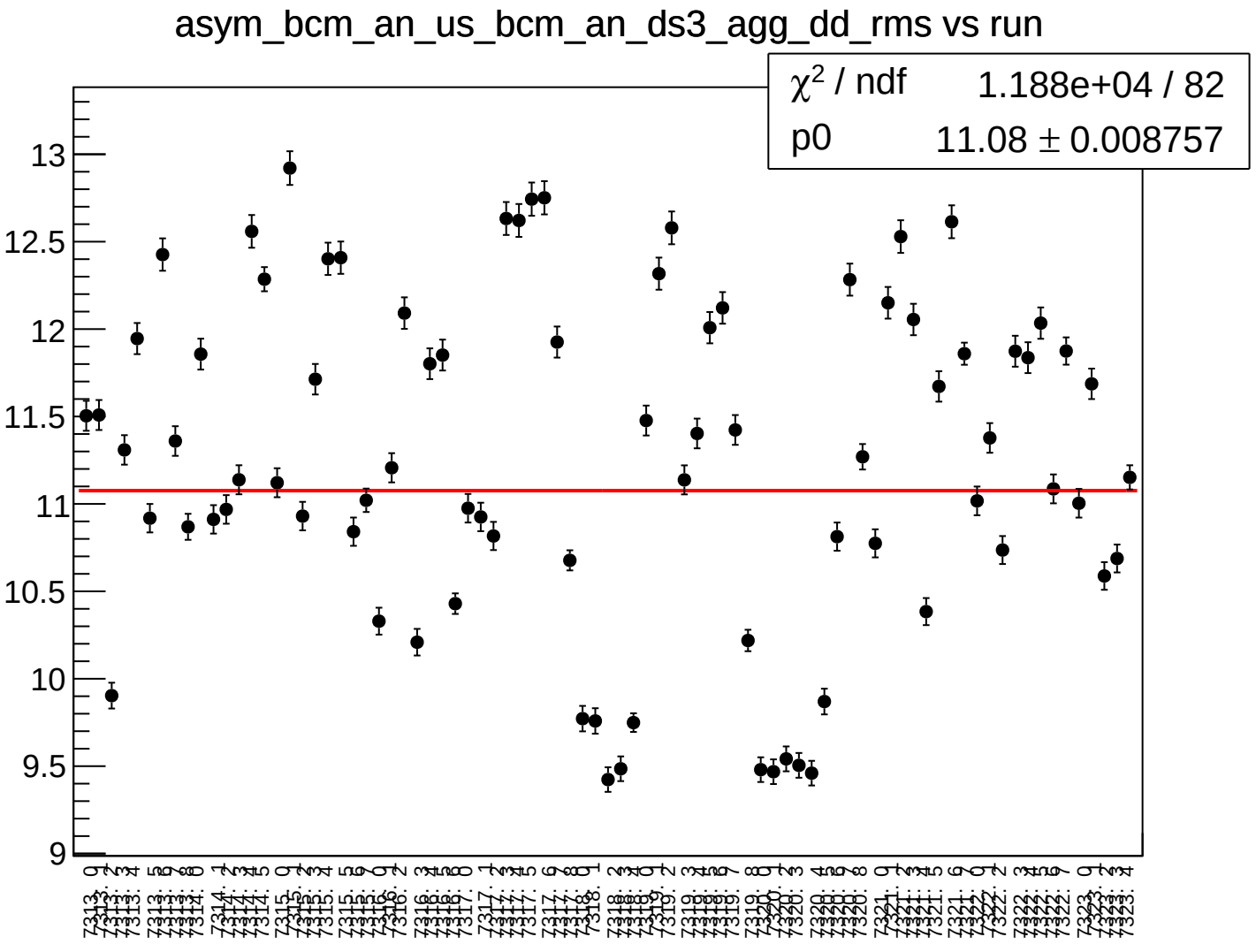

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 17.44 / 82
p0 195.1 ± 199.7
pull
Entries 83
Mean 72.84
Std Dev 0

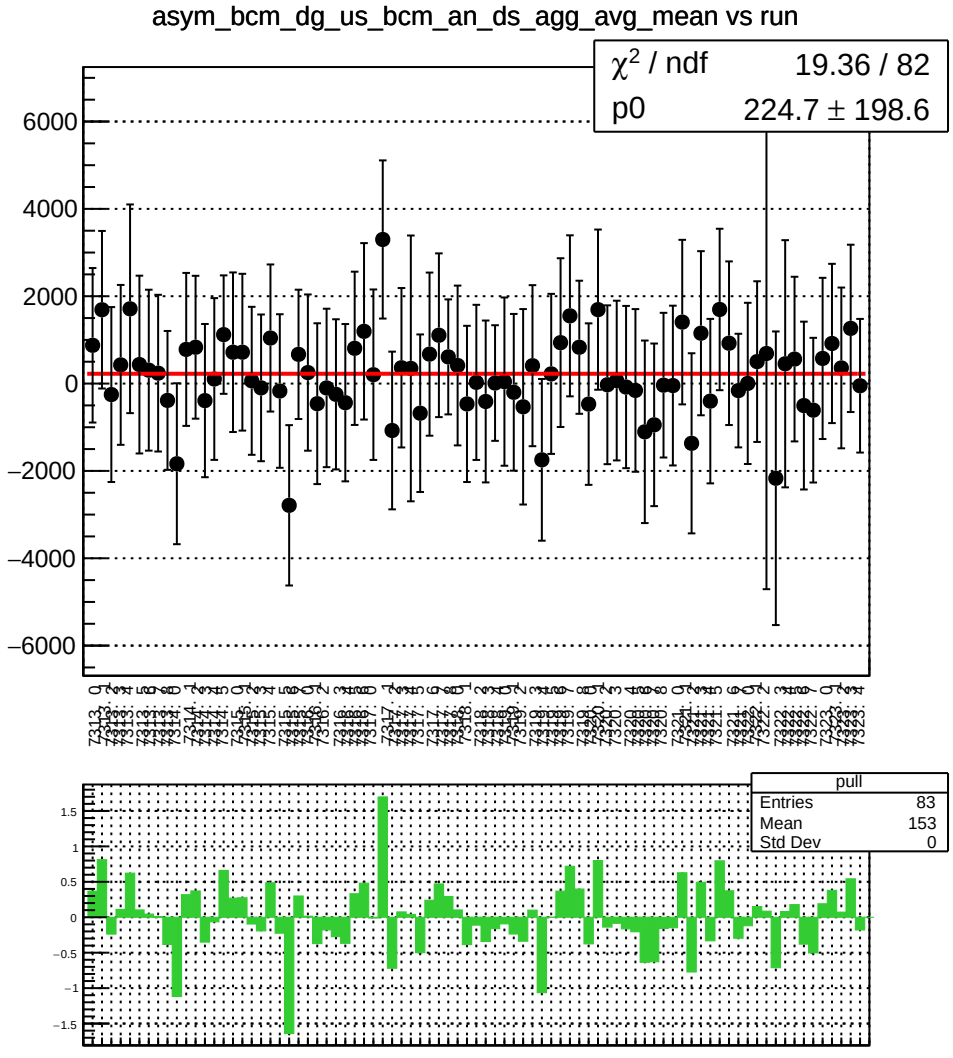

pull1D
Entries 83
Mean −0.005794
Std Dev 0.4583

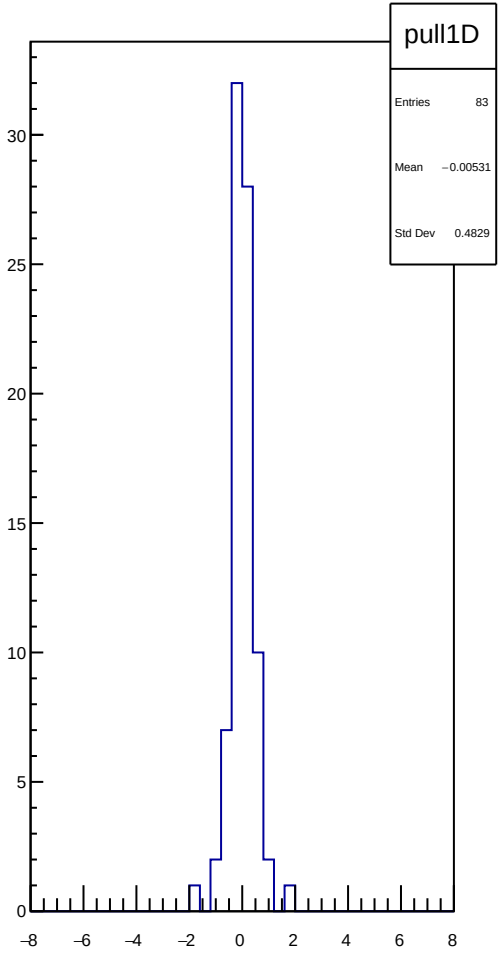

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.346e+04 / 82
p0 177.9 ± 0.1412
550
500
450
400
350
300
250
200
150

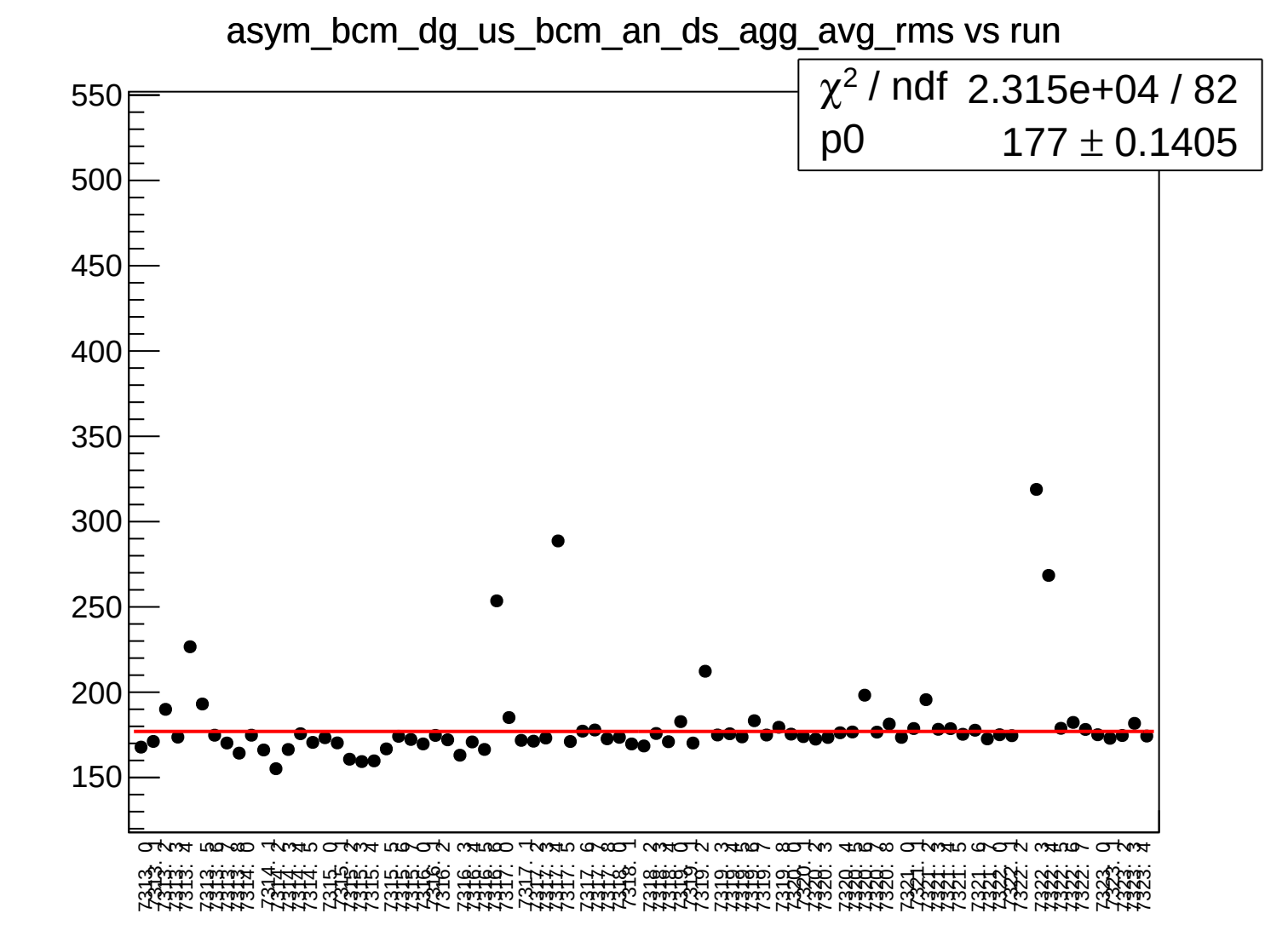

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 88.08 / 82
p0 −12.13 ± 12.38
pull
Entries 83
Mean 1118
Std Dev 0

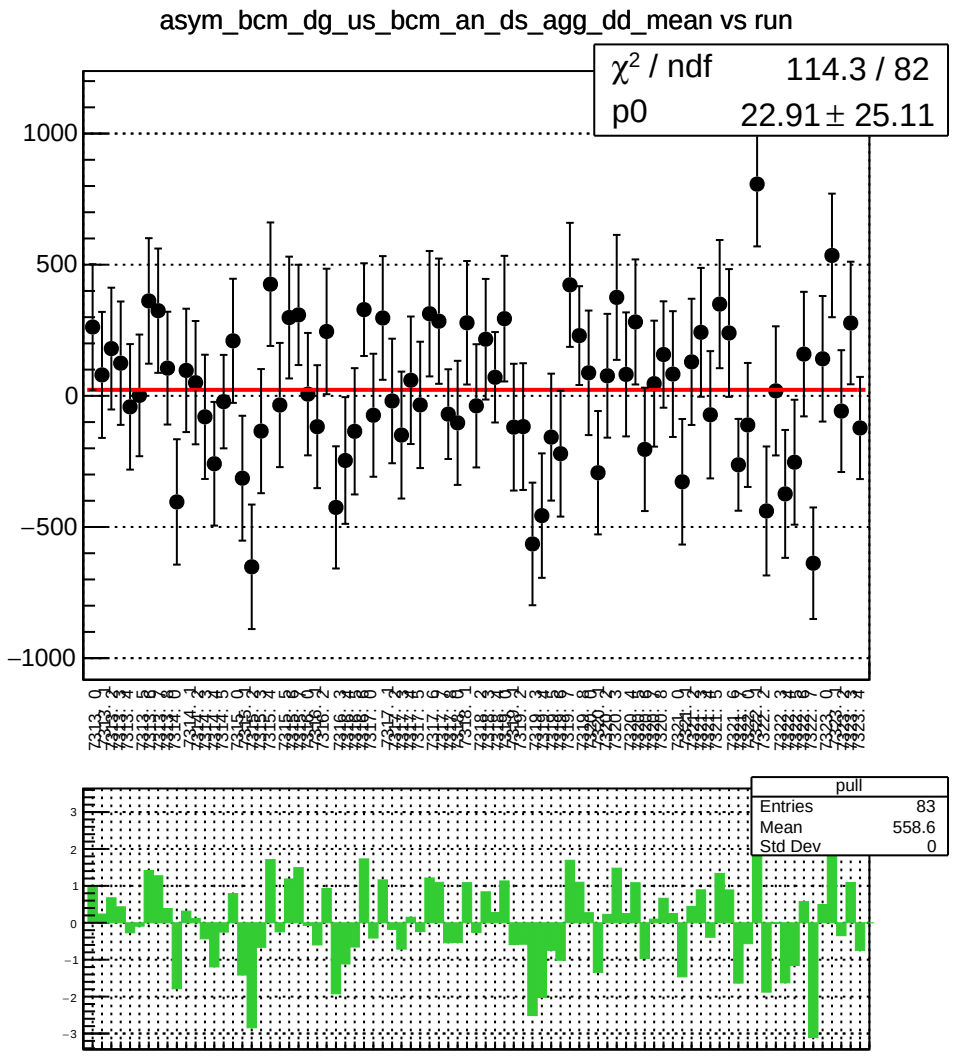

pull1D
Entries 83
Mean 0.004829
Std Dev 1.03

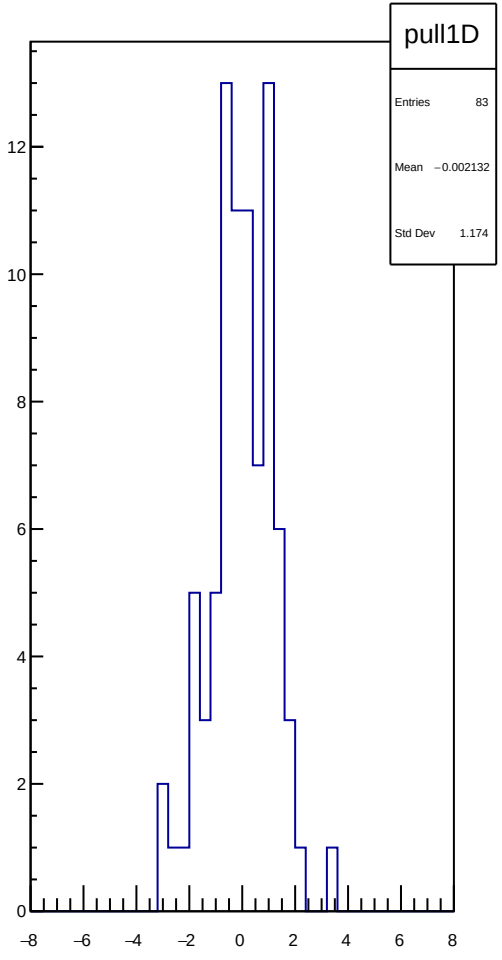

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.188e+04 / 82
p0 11.08 ± 0.008757
13
12.5
12
11.5
11
10.5
10
9.5
9

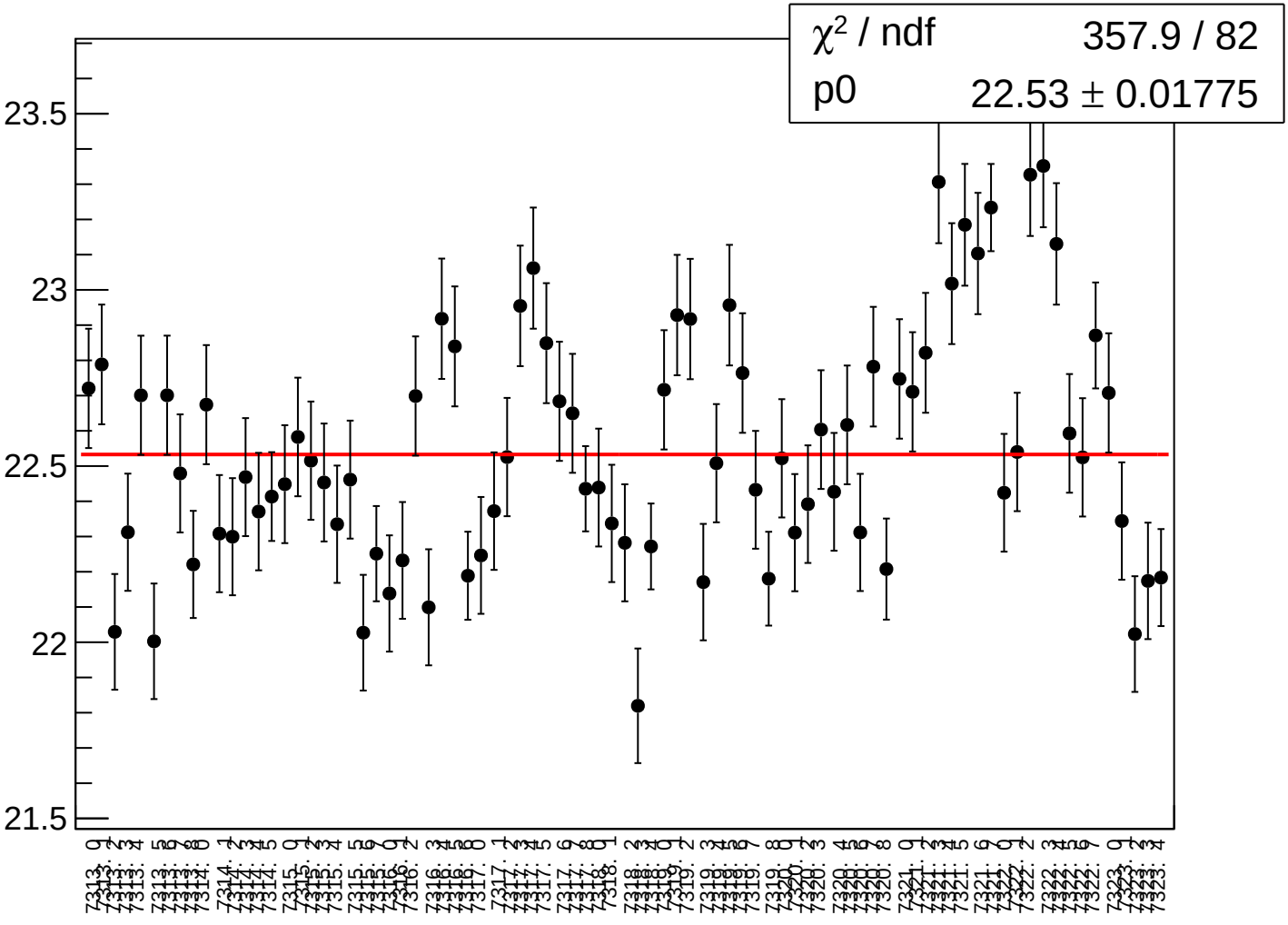

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.36 / 82
p0 224.7 ± 198.6
pull
Entries 83
Mean 153
Std Dev 0

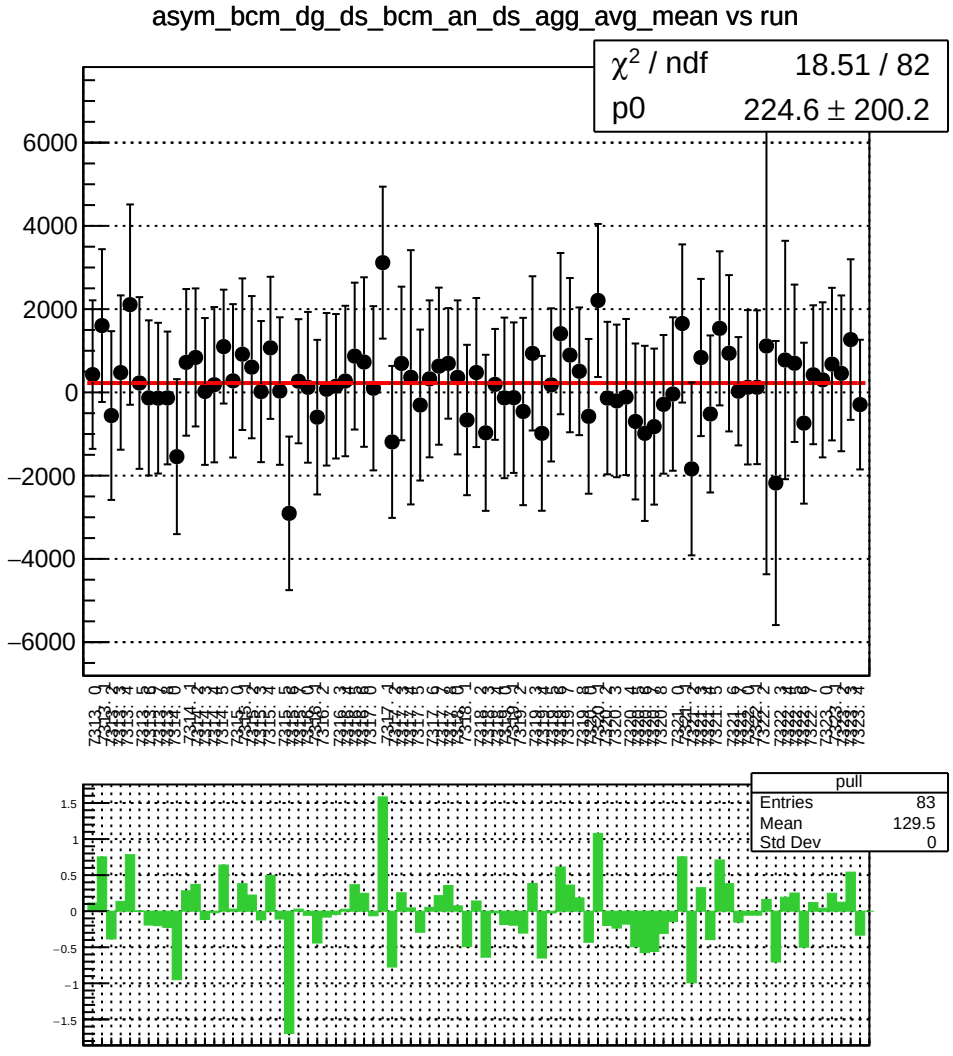

pull1D
Entries 83
Mean −0.00531
Std Dev 0.4829

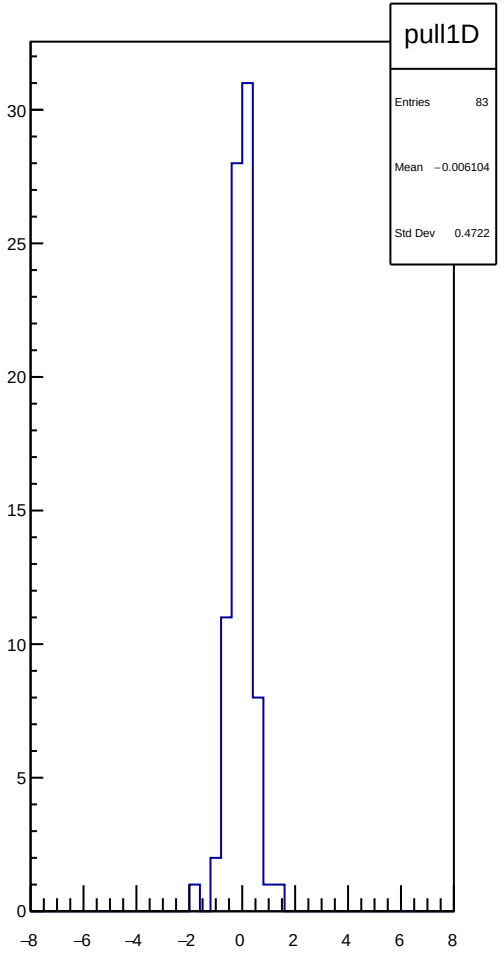

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.315e+04 / 82
p0 177 ± 0.1405
550
500
450
400
350
300
250
200
150

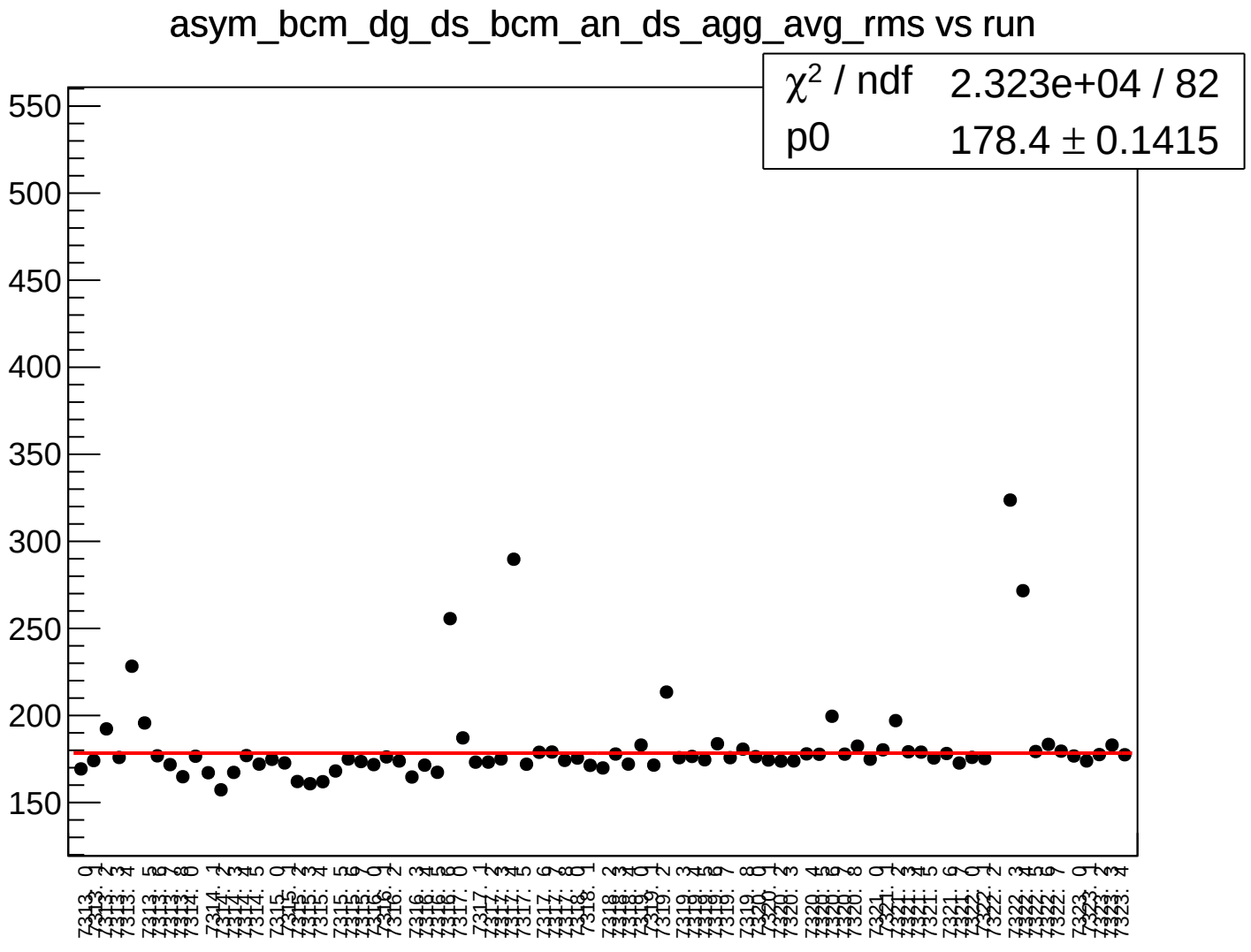

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.3 / 82
p0 22.91 ± 25.11
1000
500
0
−500
−1000
pull
Entries 83
Mean 558.6
Std Dev 0
3
2
1
0
−1
−2
−3

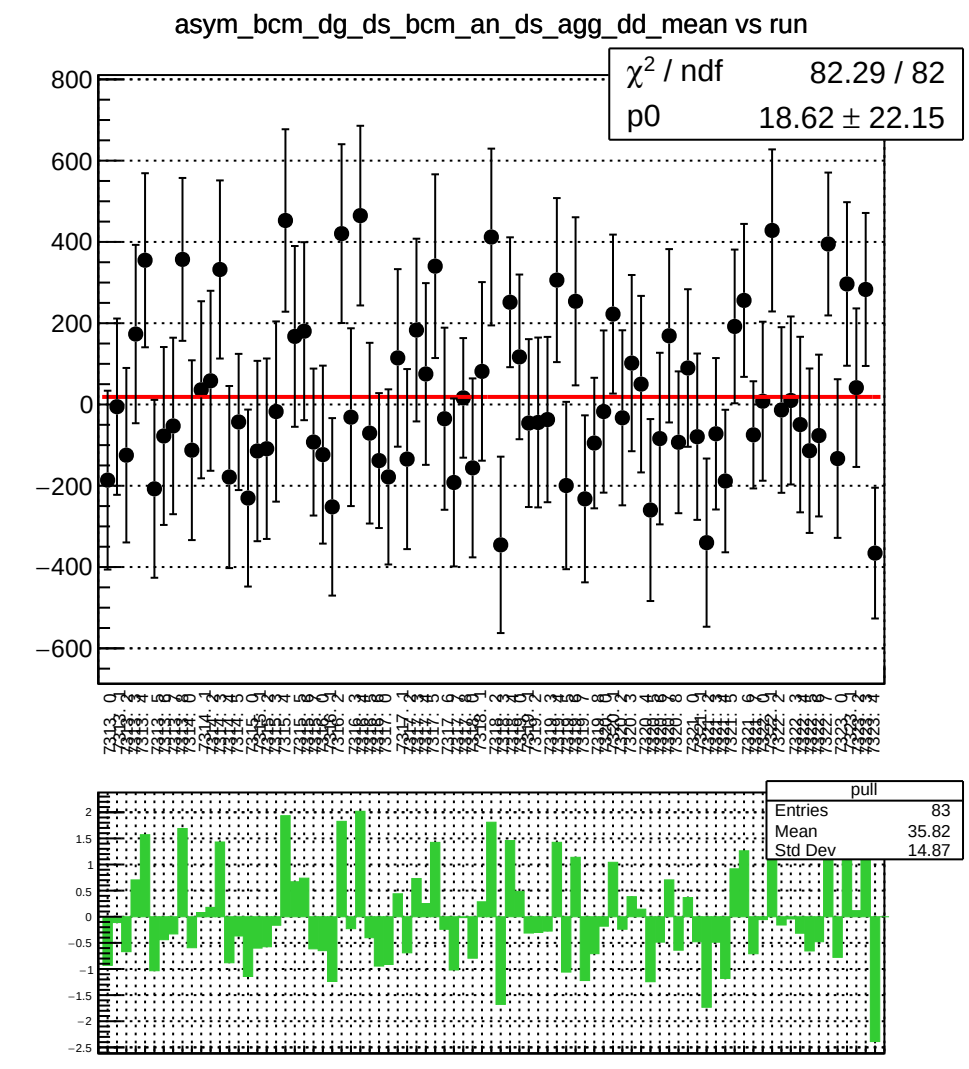

pull1D
Entries 83
Mean −0.002132
Std Dev 1.174
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

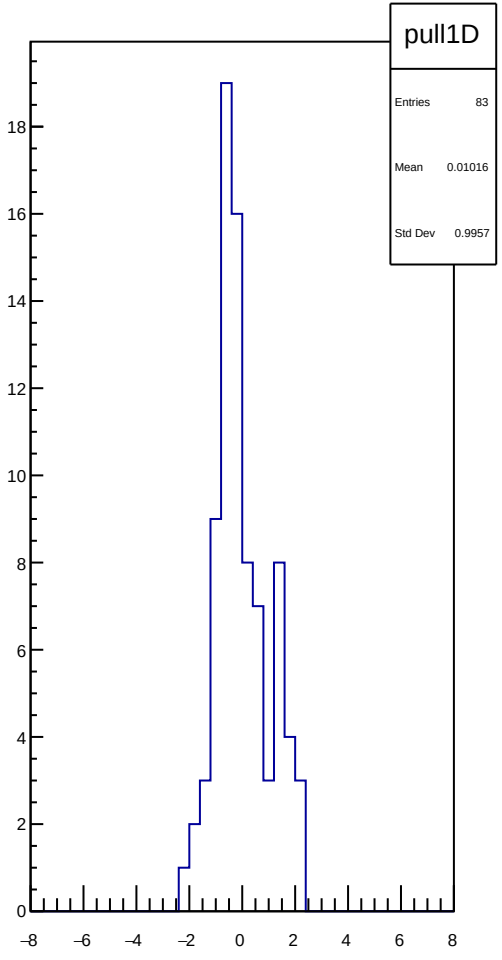

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 357.9 / 82
p0 22.53 ± 0.01775
23.5
23
22.5
22
21.5

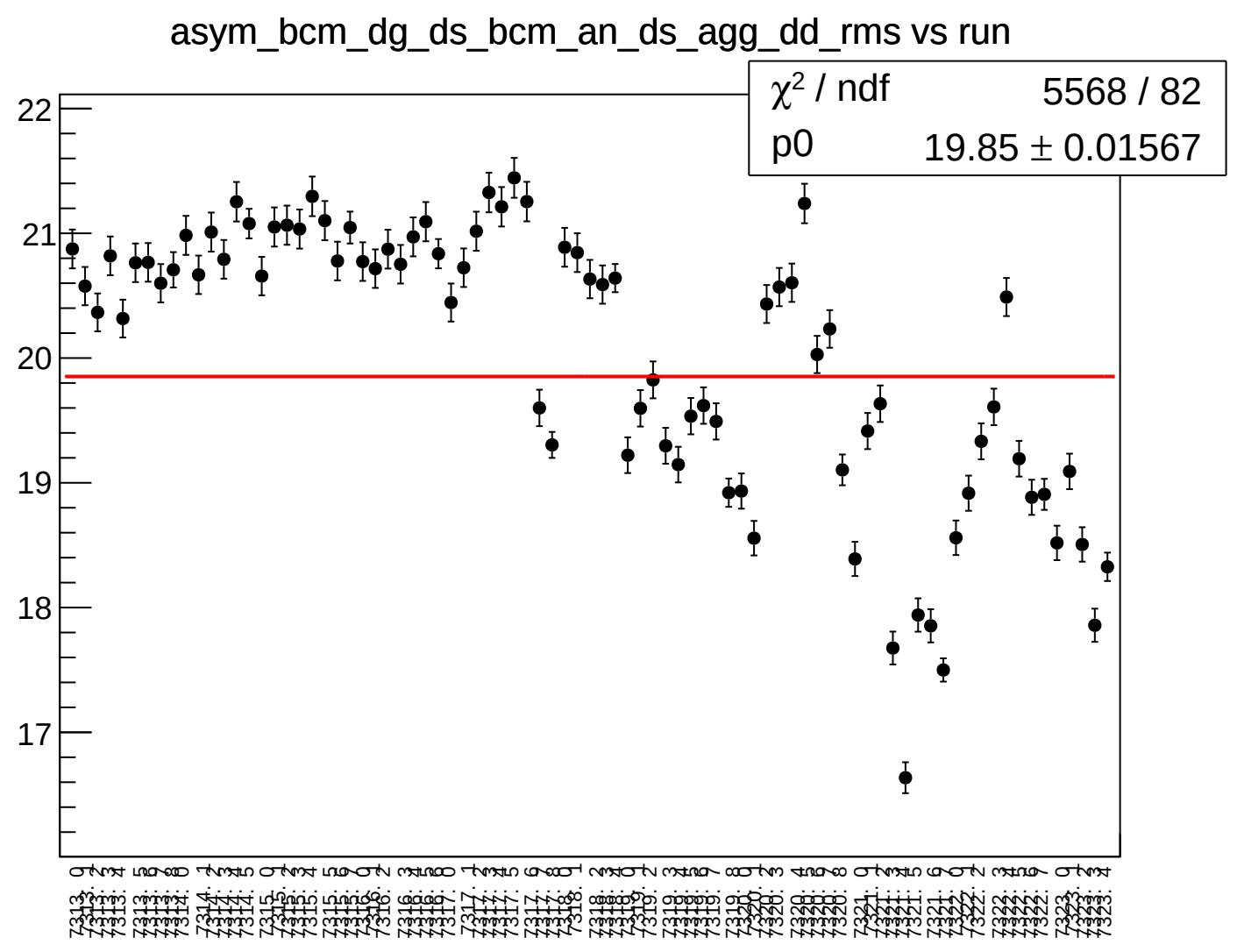

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.51 / 82
p0 224.6 ± 200.2
pull
Entries 83
Mean 129.5
Std Dev 0

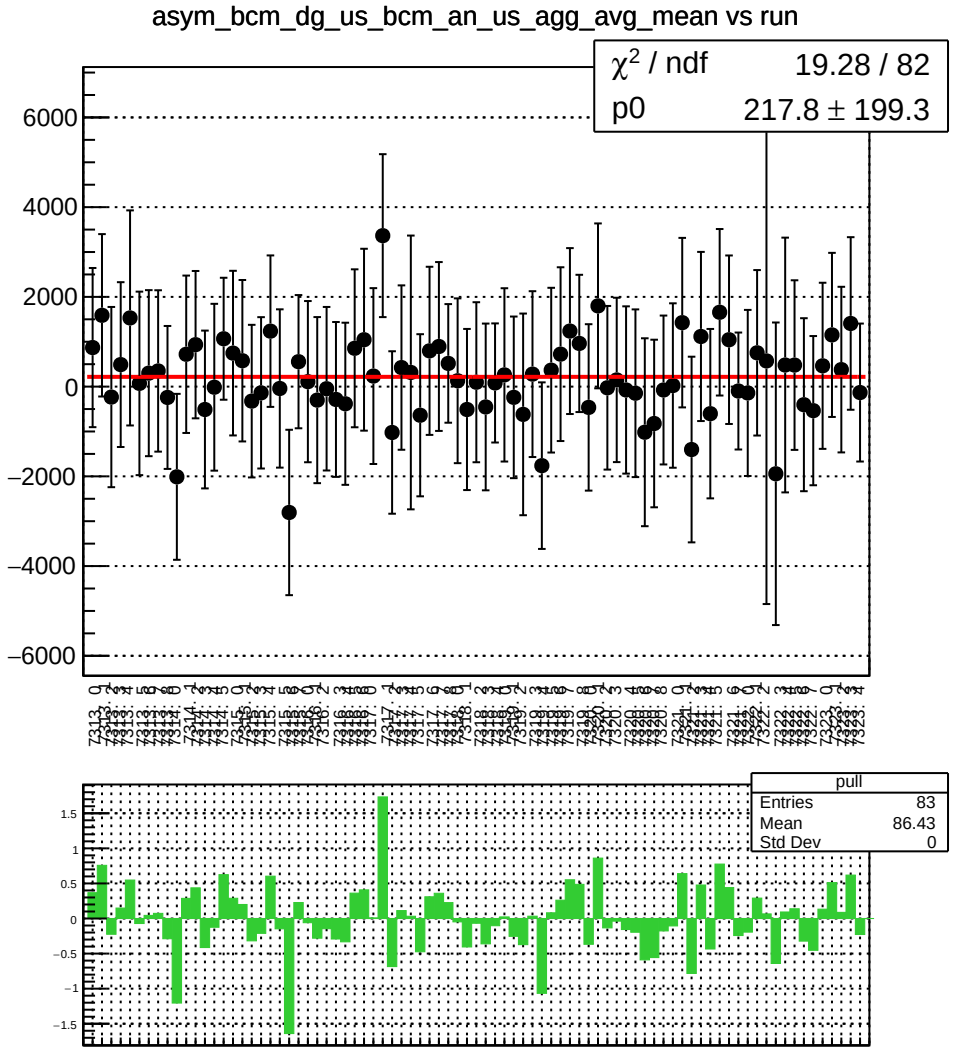

pull1D
Entries 83
Mean −0.006104
Std Dev 0.4722

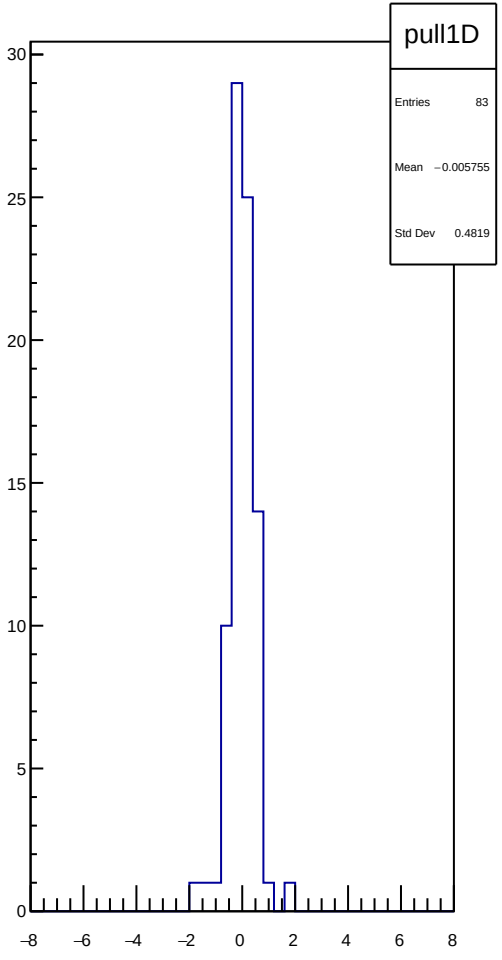

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.323e+04 / 82
p0 178.4 ± 0.1415
550
500
450
400
350
300
250
200
150

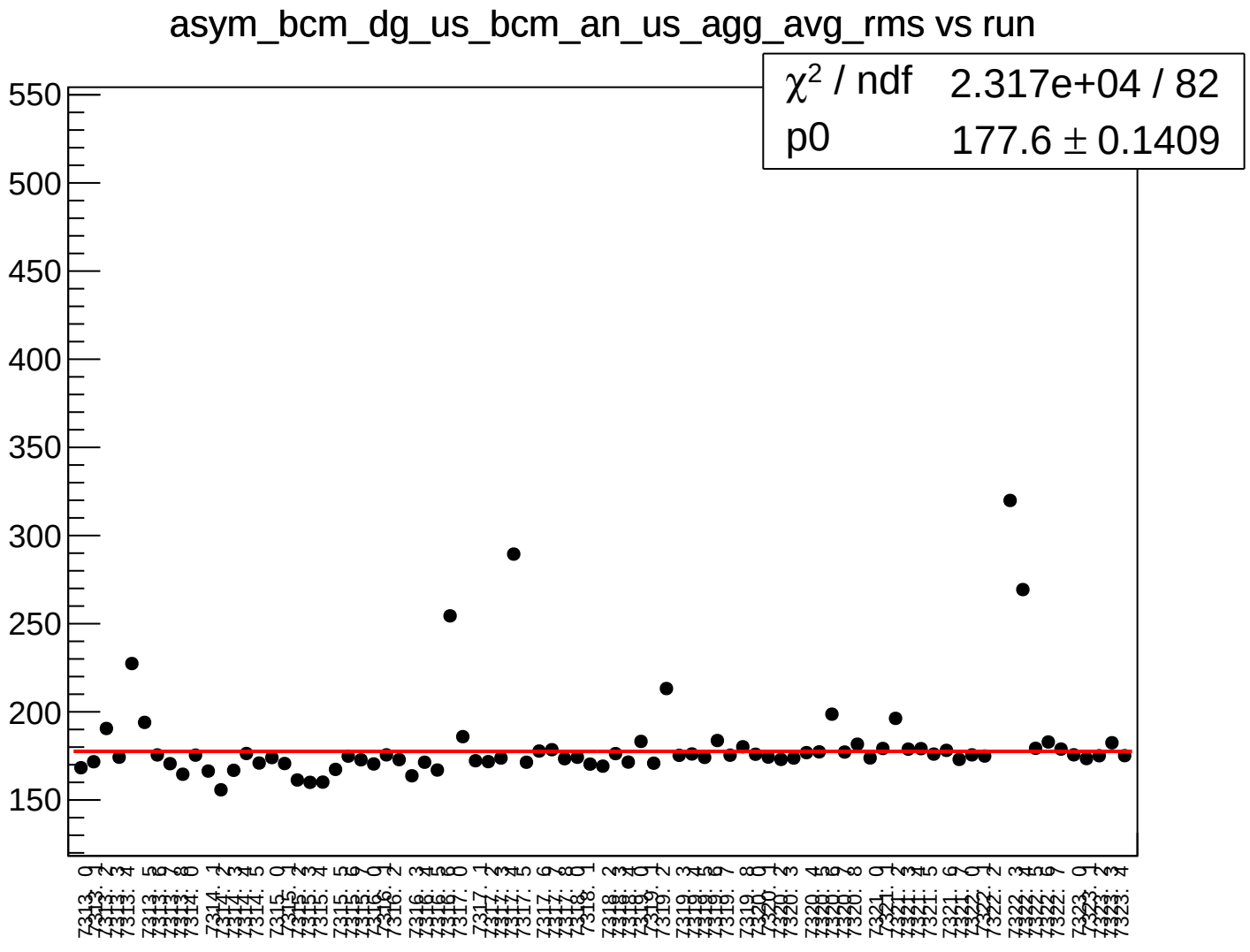

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.29 / 82
p0 18.62 ± 22.15
pull
Entries 83
Mean 35.82
Std Dev 14.87

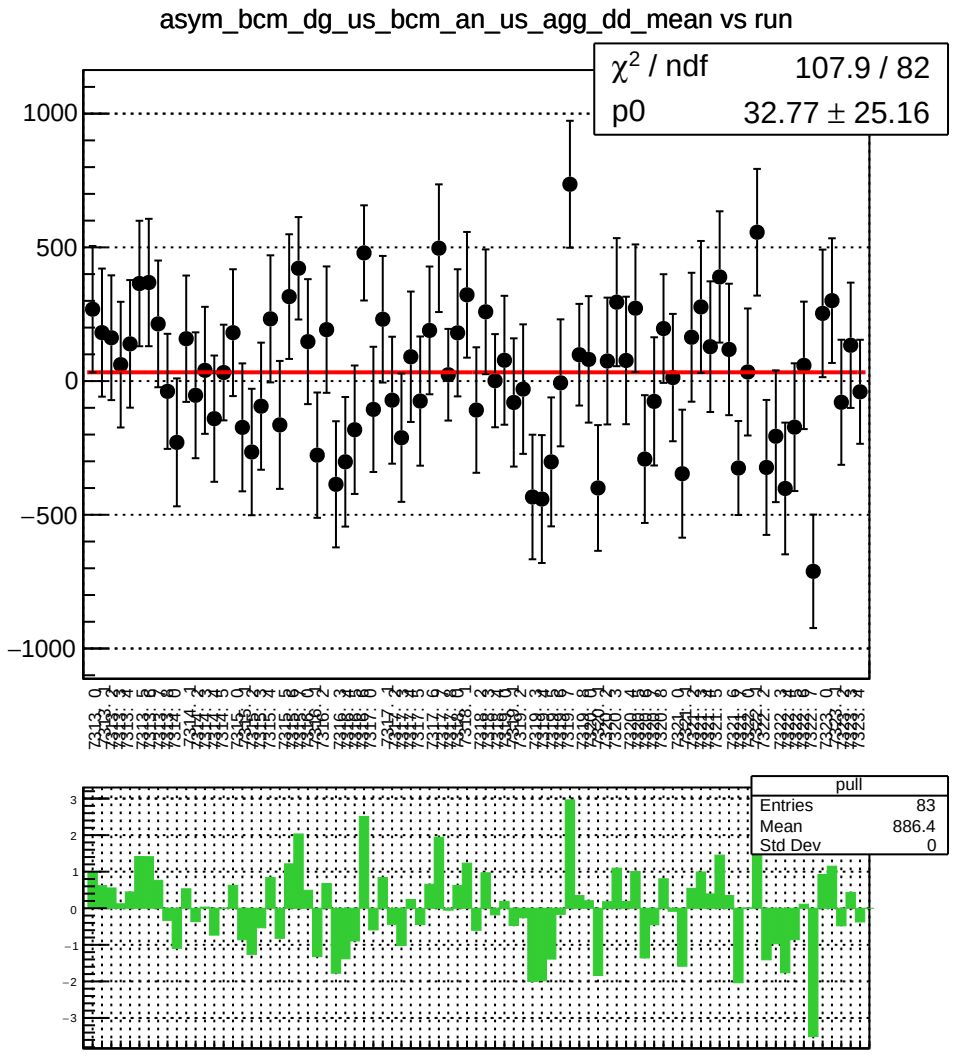

pull1D
Entries 83
Mean 0.01016
Std Dev 0.9957

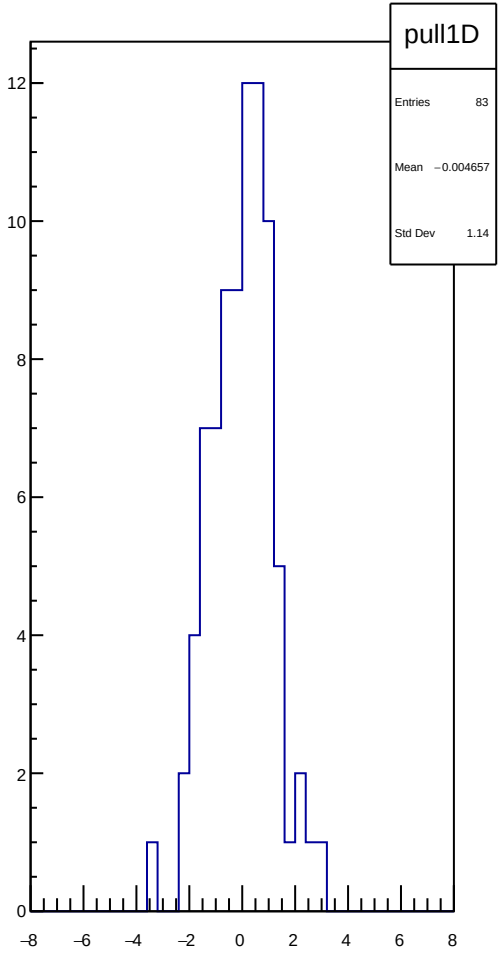

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5568 / 82
p0 19.85 ± 0.01567
22
21
20
19
18
17

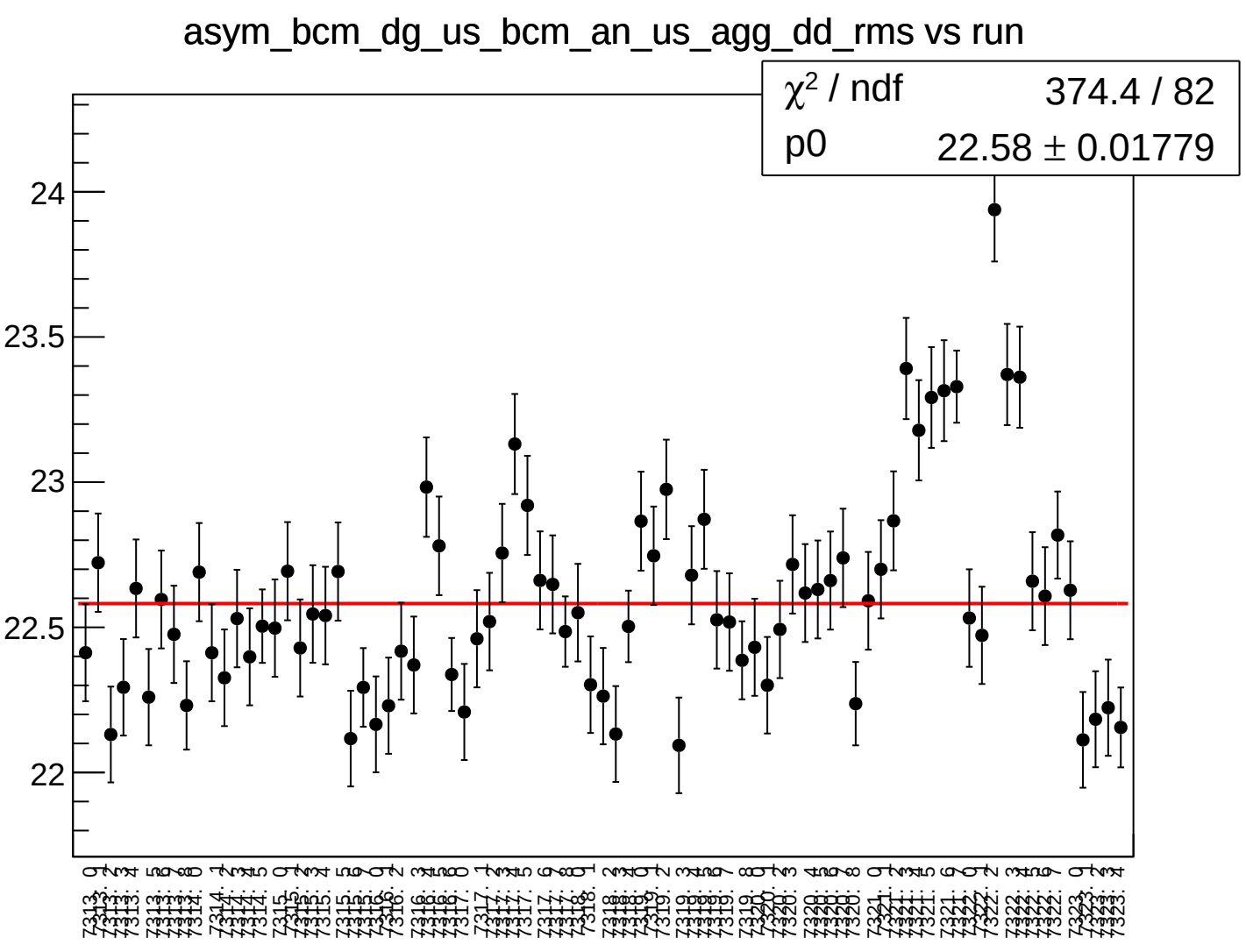

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.28 / 82
p0 217.8 ± 199.3
pull
Entries 83
Mean 86.43
Std Dev 0

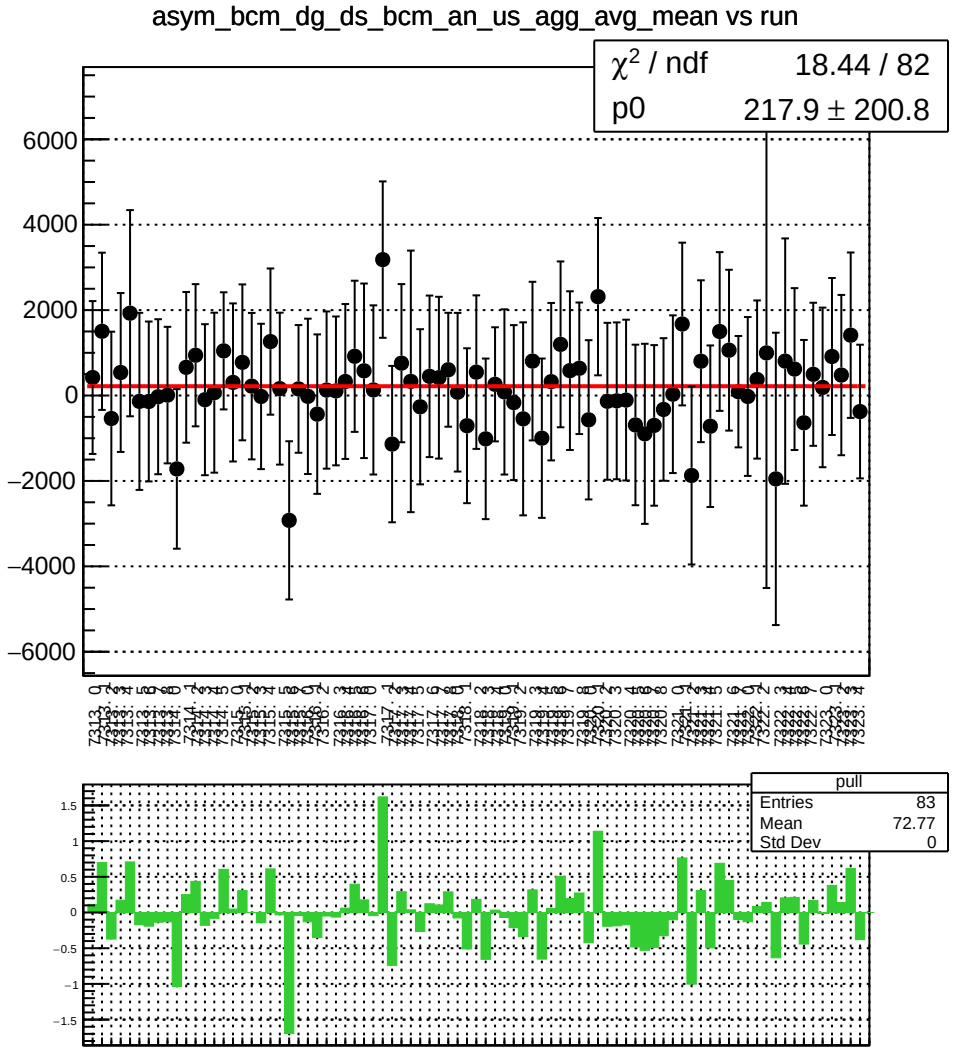

pull1D
Entries 83
Mean −0.005755
Std Dev 0.4819

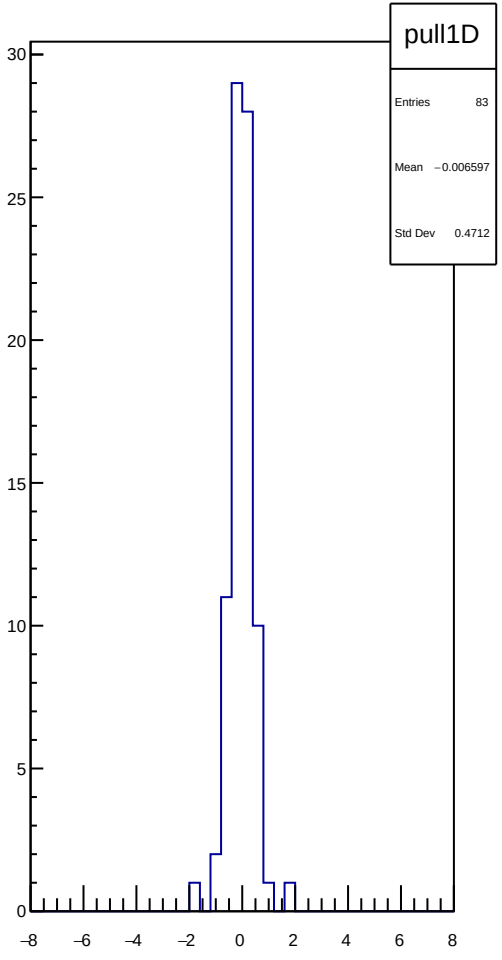

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.317e+04 / 82
p0 177.6 ± 0.1409
550
500
450
400
350
300
250
200
150

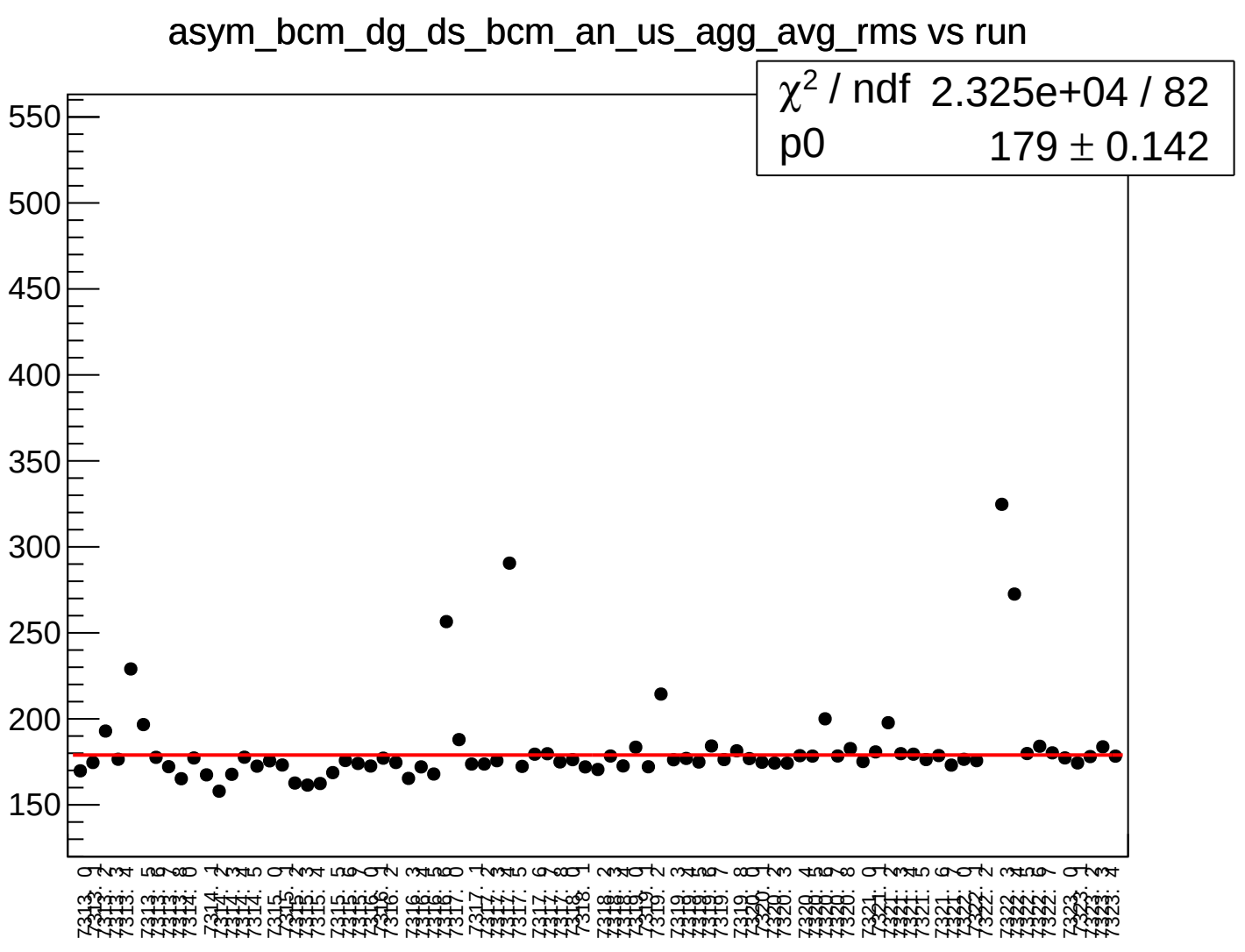

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 107.9 / 82
p0 32.77 ± 25.16
pull
Entries 83
Mean 886.4
Std Dev 0

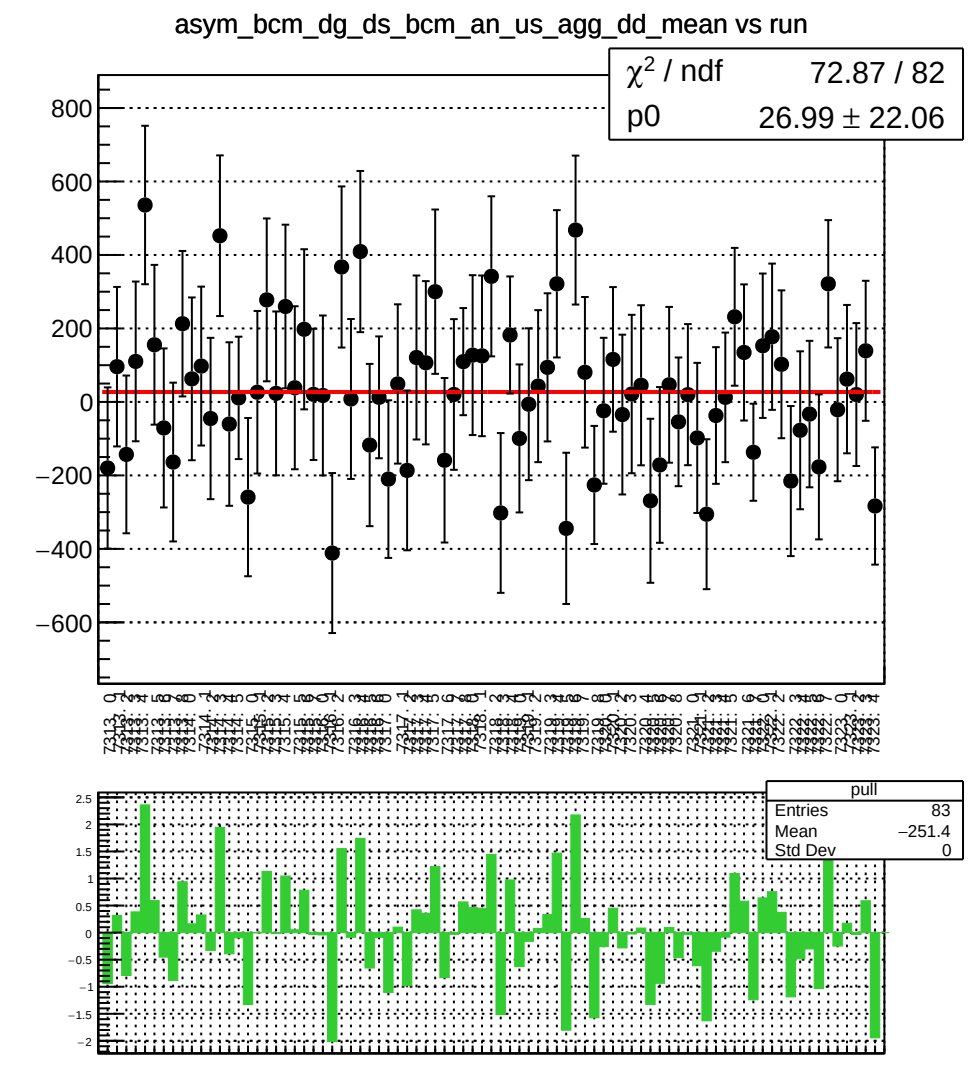

pull1D
Entries 83
Mean −0.004657
Std Dev 1.14

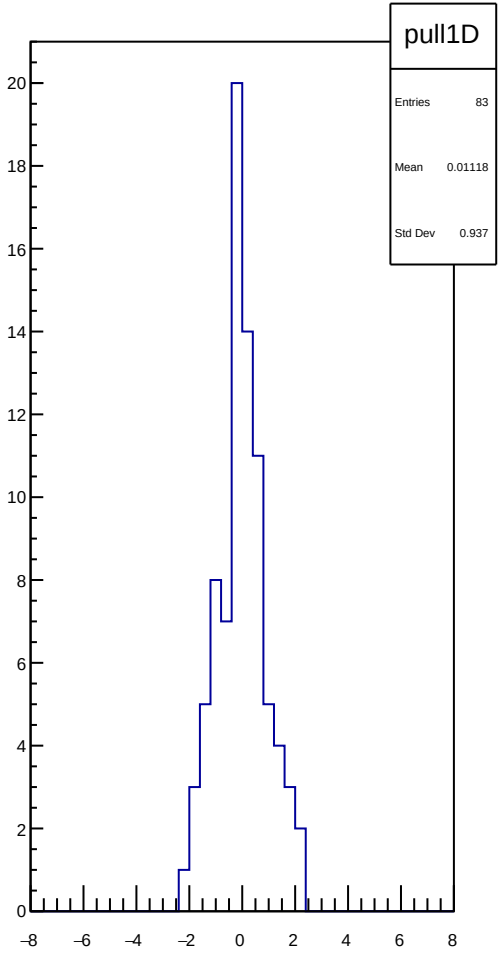

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 374.4 / 82
p0 22.58 ± 0.01779
24
23.5
23
22.5
22

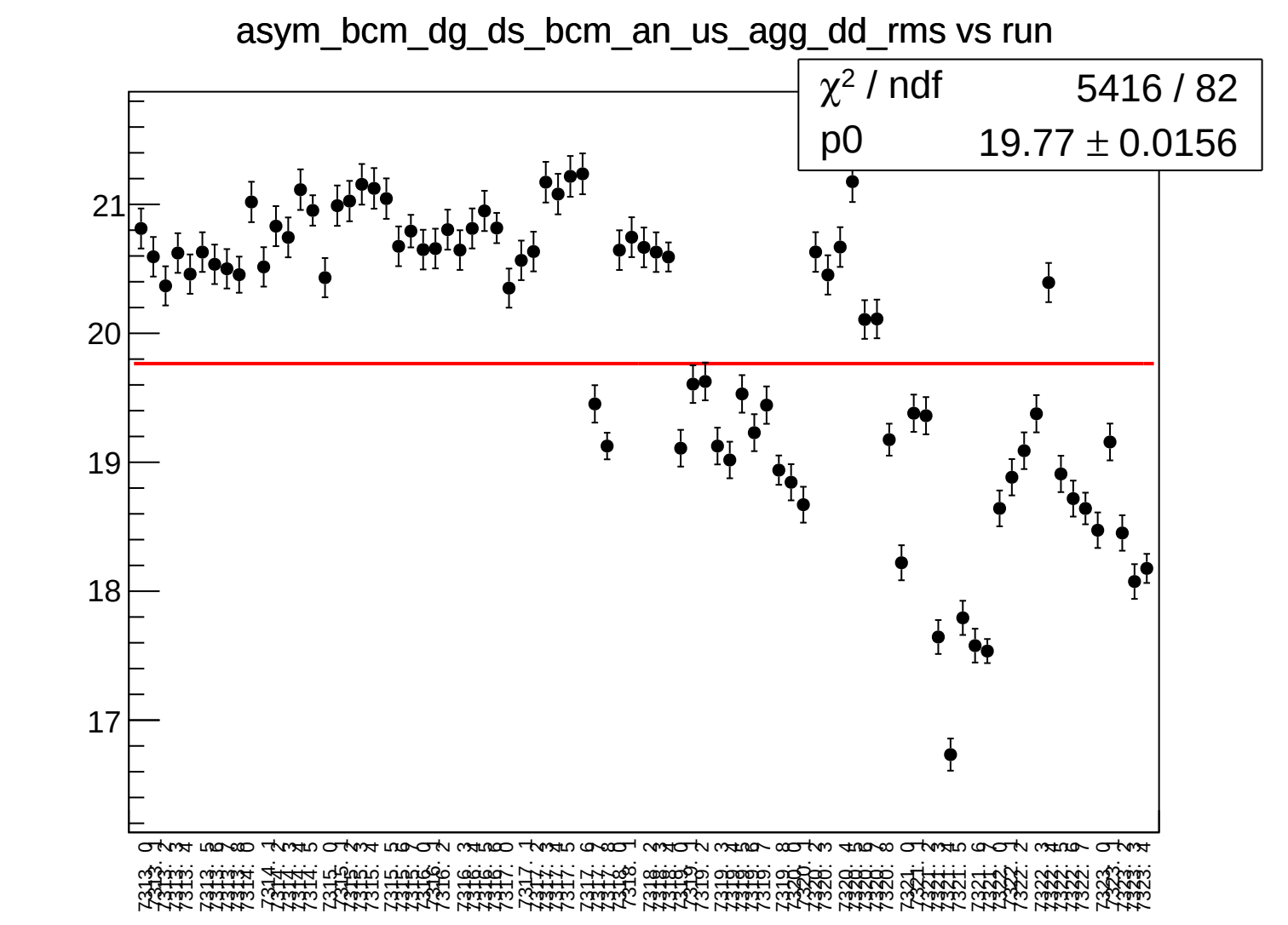

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.44 / 82
p0 217.9 ± 200.8
pull
Entries 83
Mean 72.77
Std Dev 0

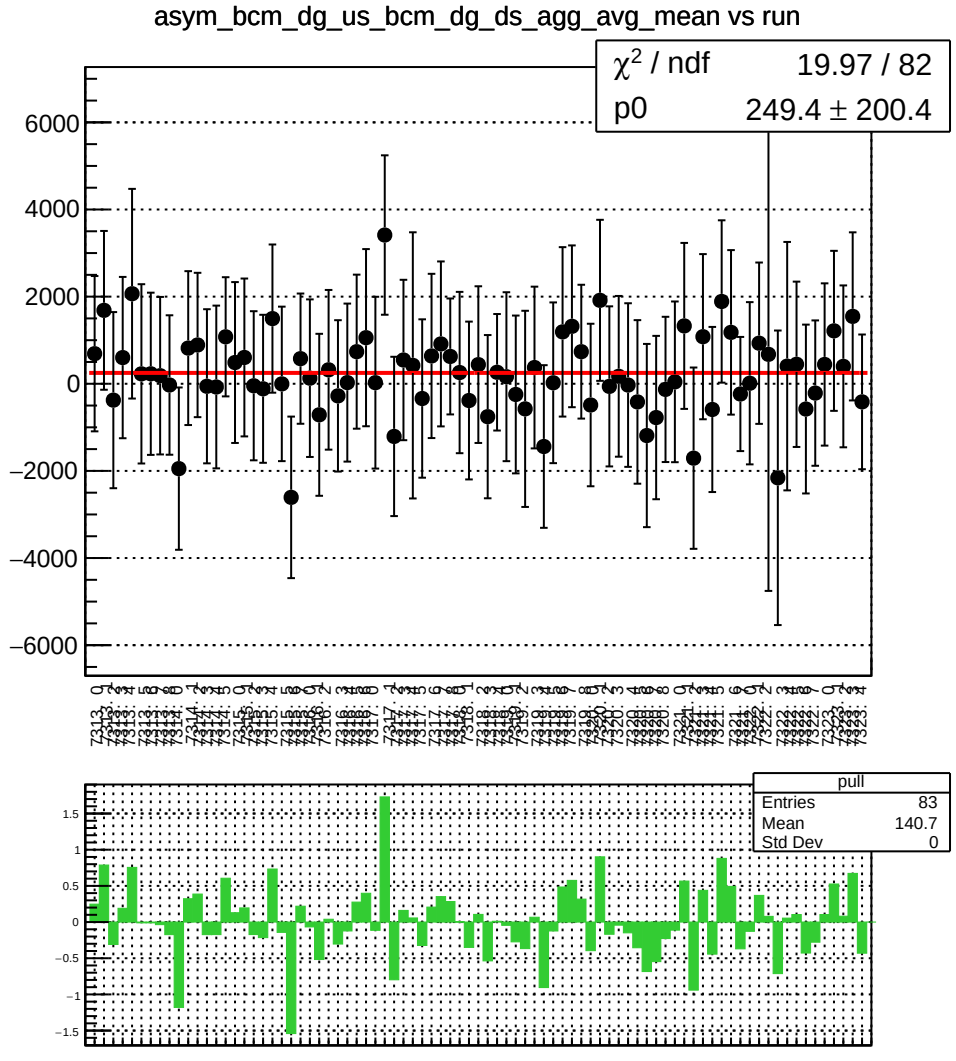

pull1D
Entries 83
Mean −0.006597
Std Dev 0.4712

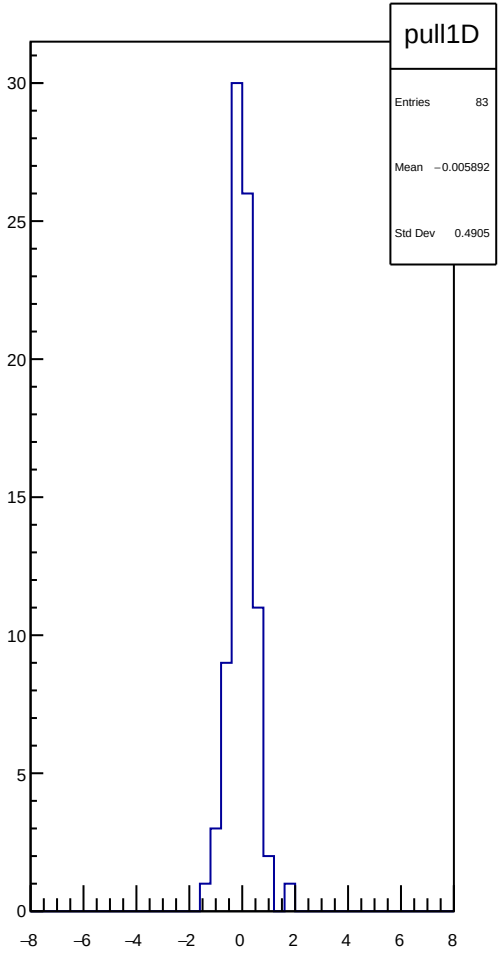

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.325e+04 / 82
p0 179 ± 0.142
550
500
450
400
350
300
250
200
150

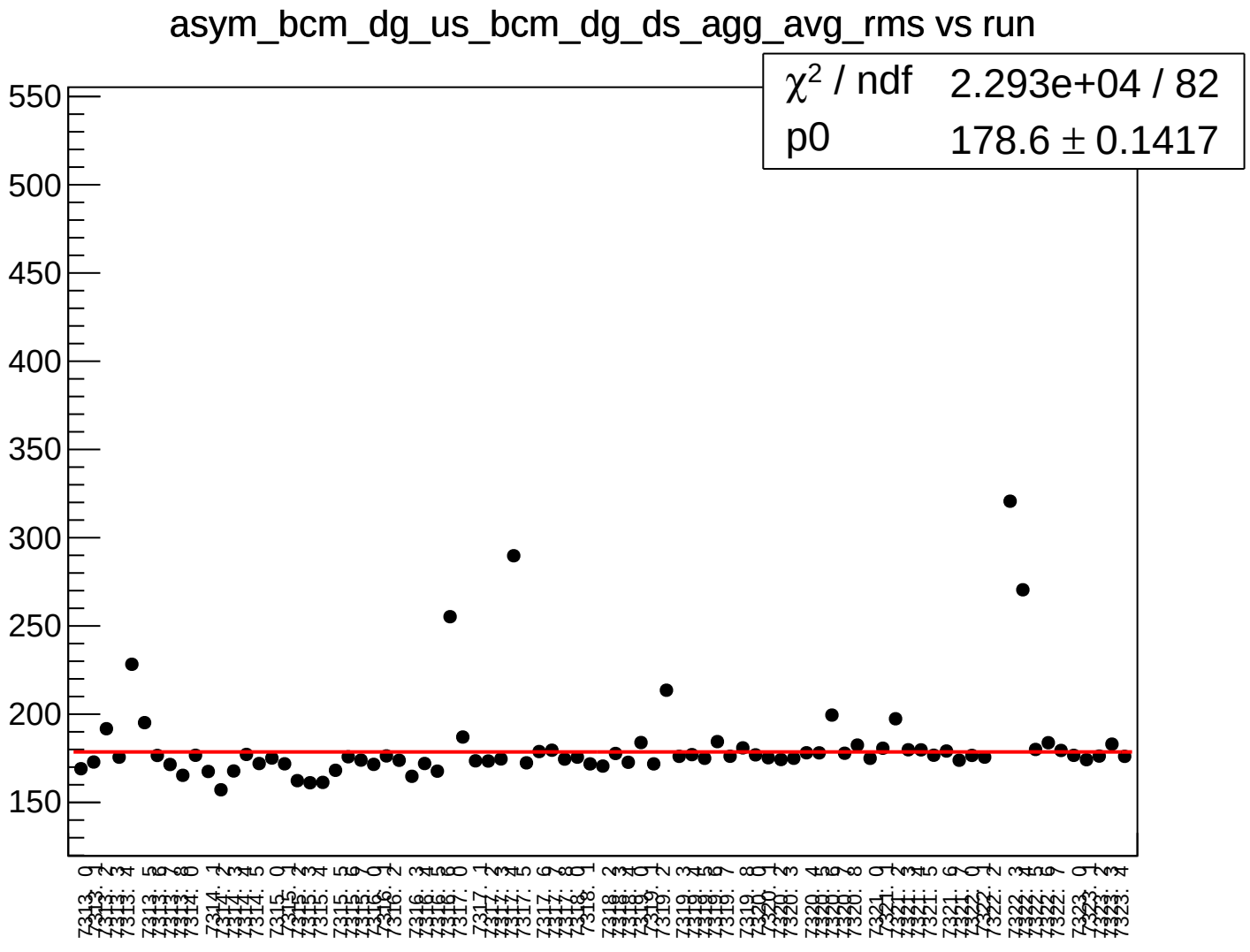

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.87 / 82
p0 26.99 ± 22.06
pull
Entries 83
Mean −251.4
Std Dev 0

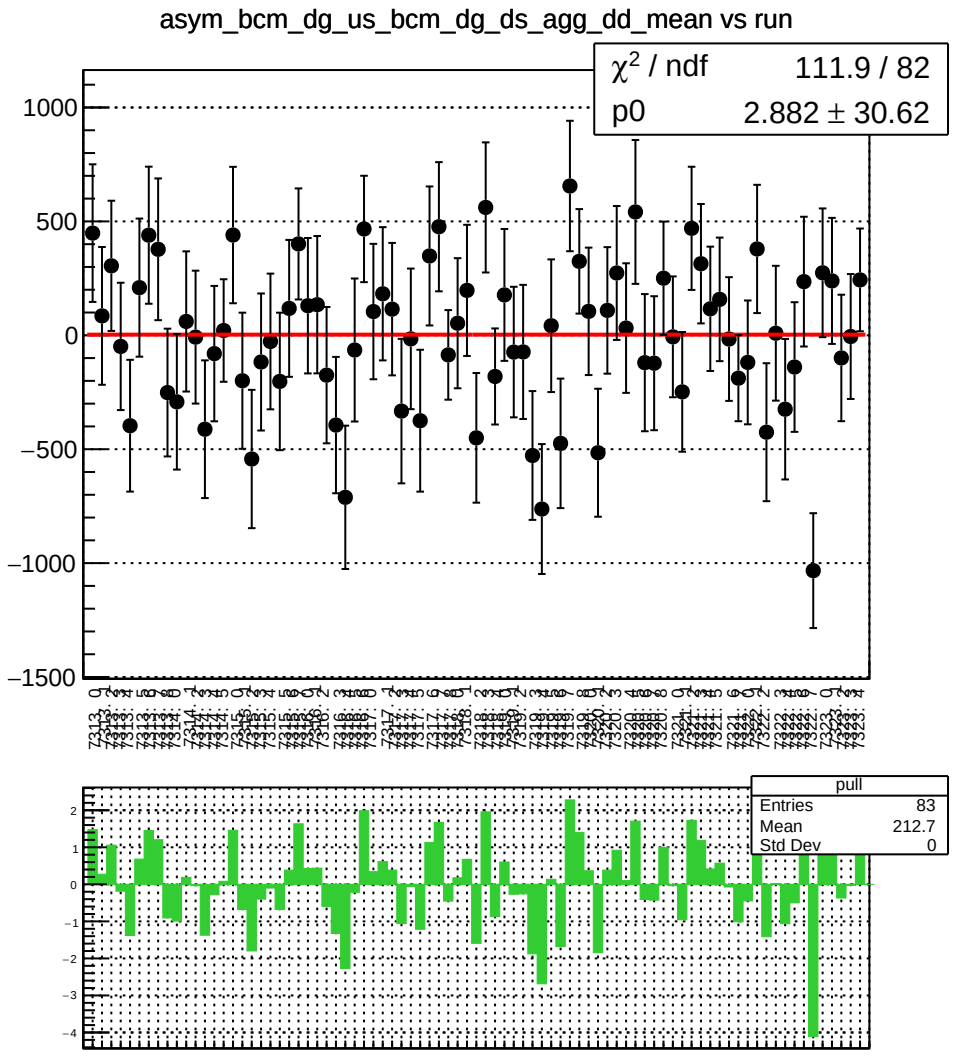

pull1D
Entries 83
Mean 0.01118
Std Dev 0.937

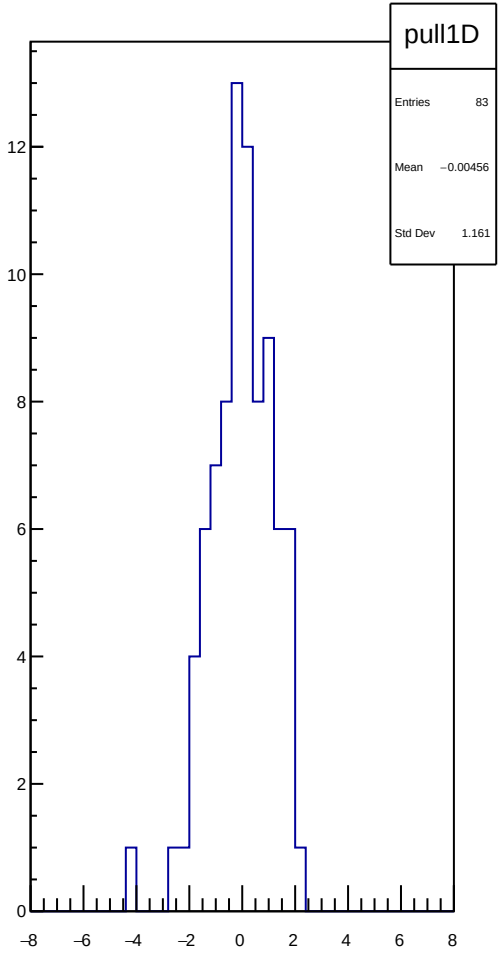

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5416 / 82
p0 19.77 ± 0.0156
21
20
19
18
17

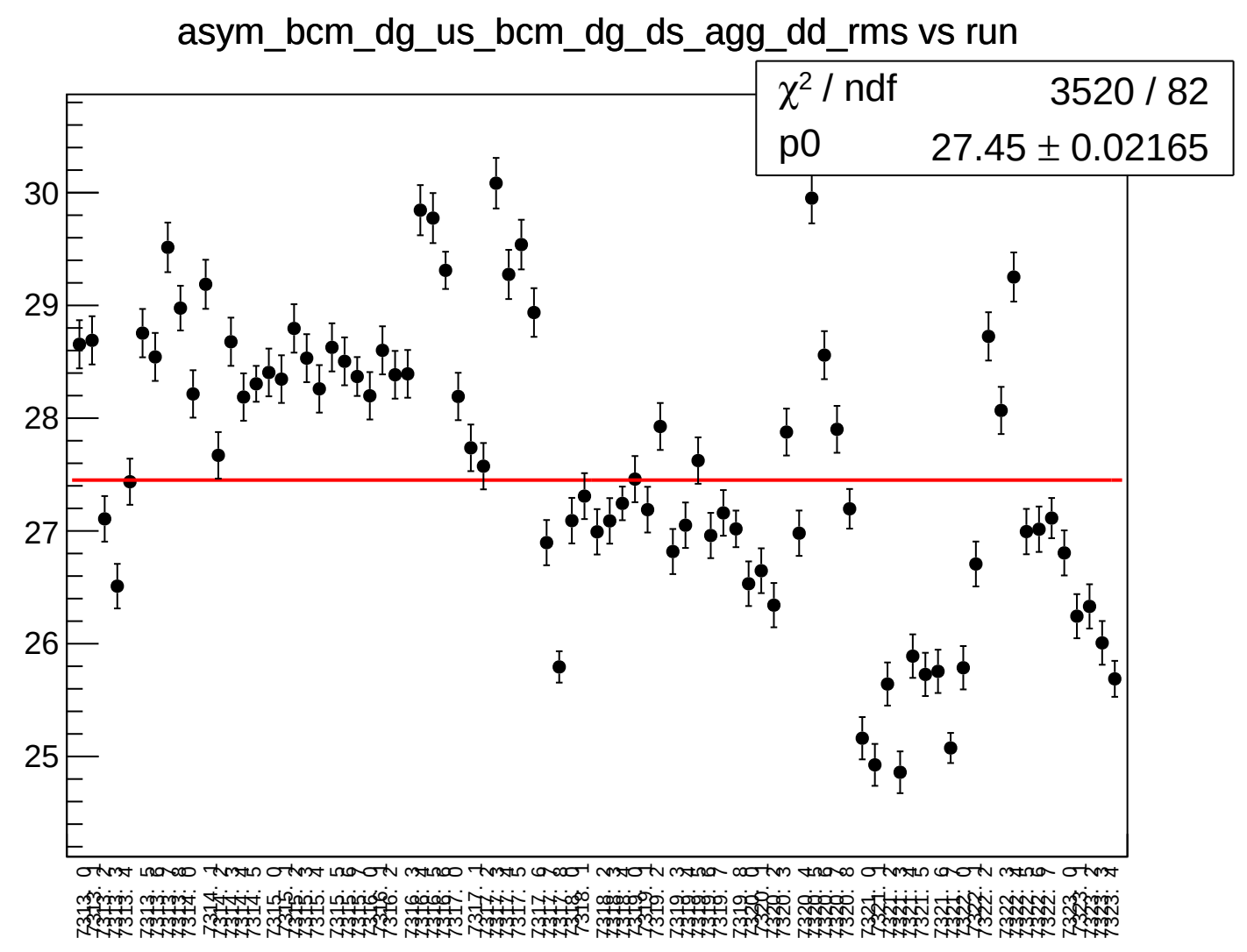

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.97 / 82
p0 249.4 ± 200.4
pull
Entries 83
Mean 140.7
Std Dev 0

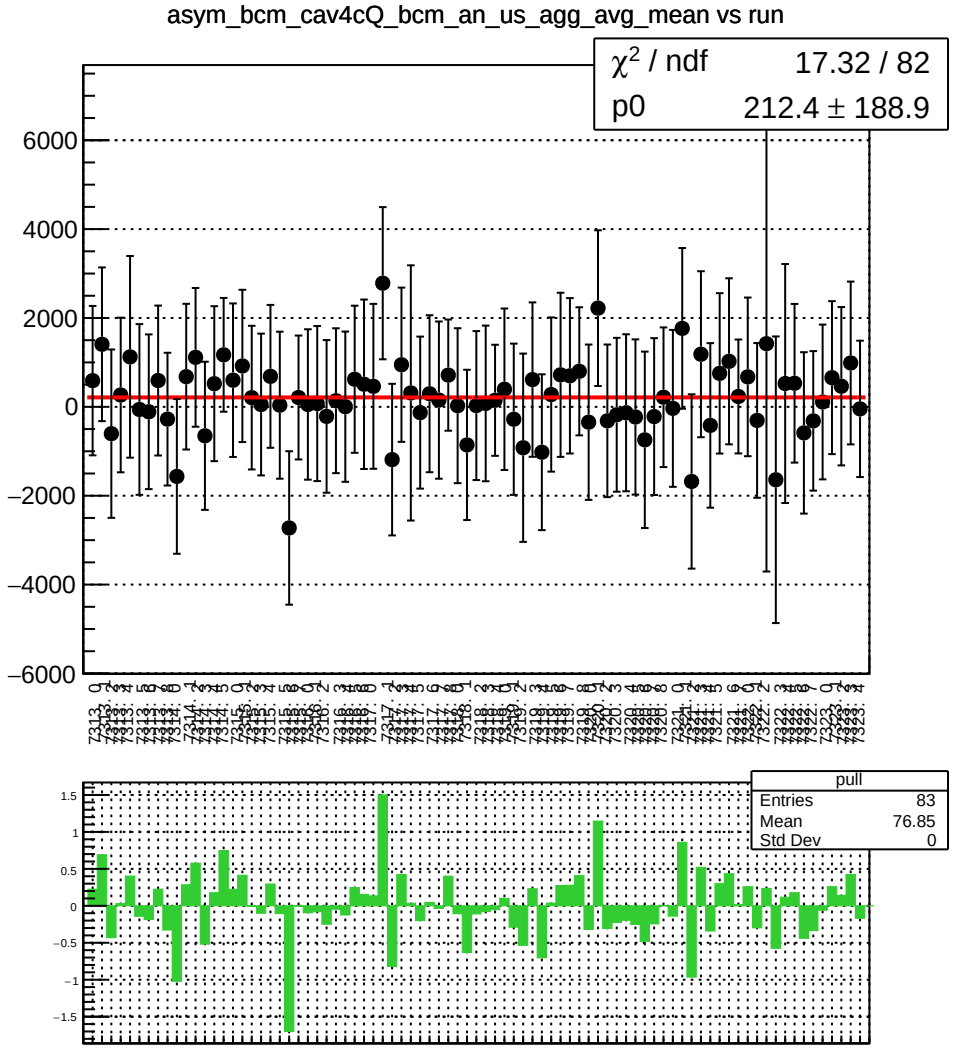

pull1D
Entries 83
Mean −0.005892
Std Dev 0.4905

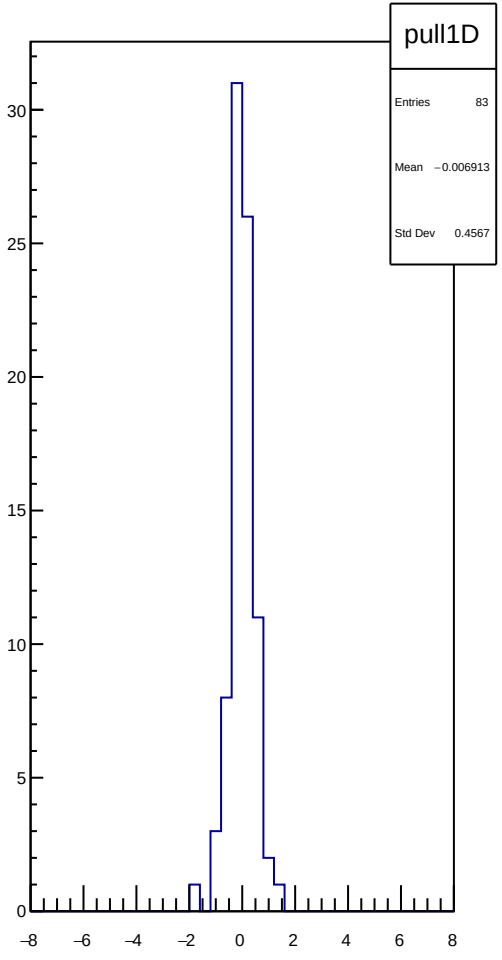

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.293e+04 / 82
p0 178.6 ± 0.1417
550
500
450
400
350
300
250
200
150

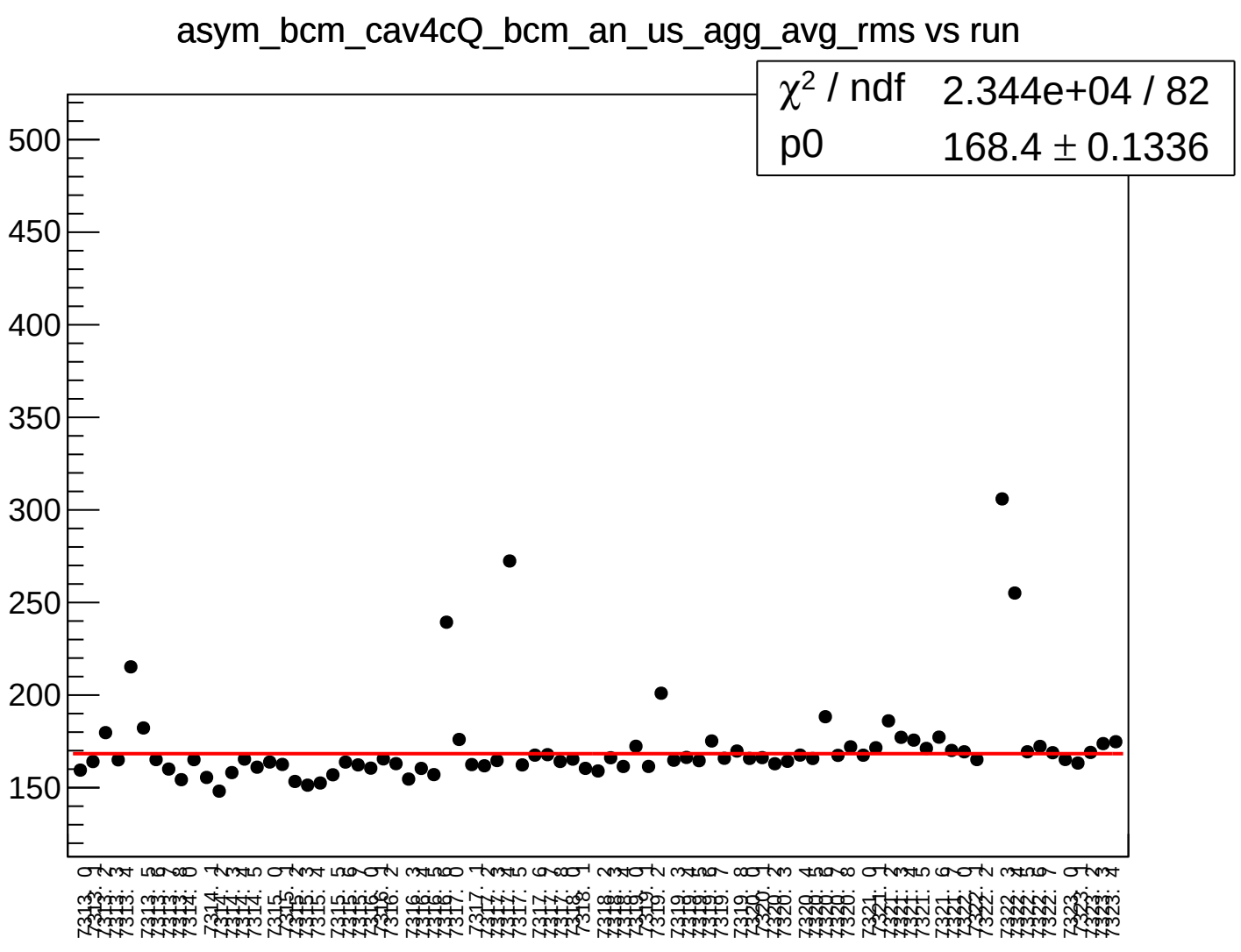

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 111.9 / 82
p0 2.882 ± 30.62
1000
500
0
−500
−1000
−1500
pull
Entries 83
Mean 212.7
Std Dev 0
2
1
0
−1
−2
−3
−4

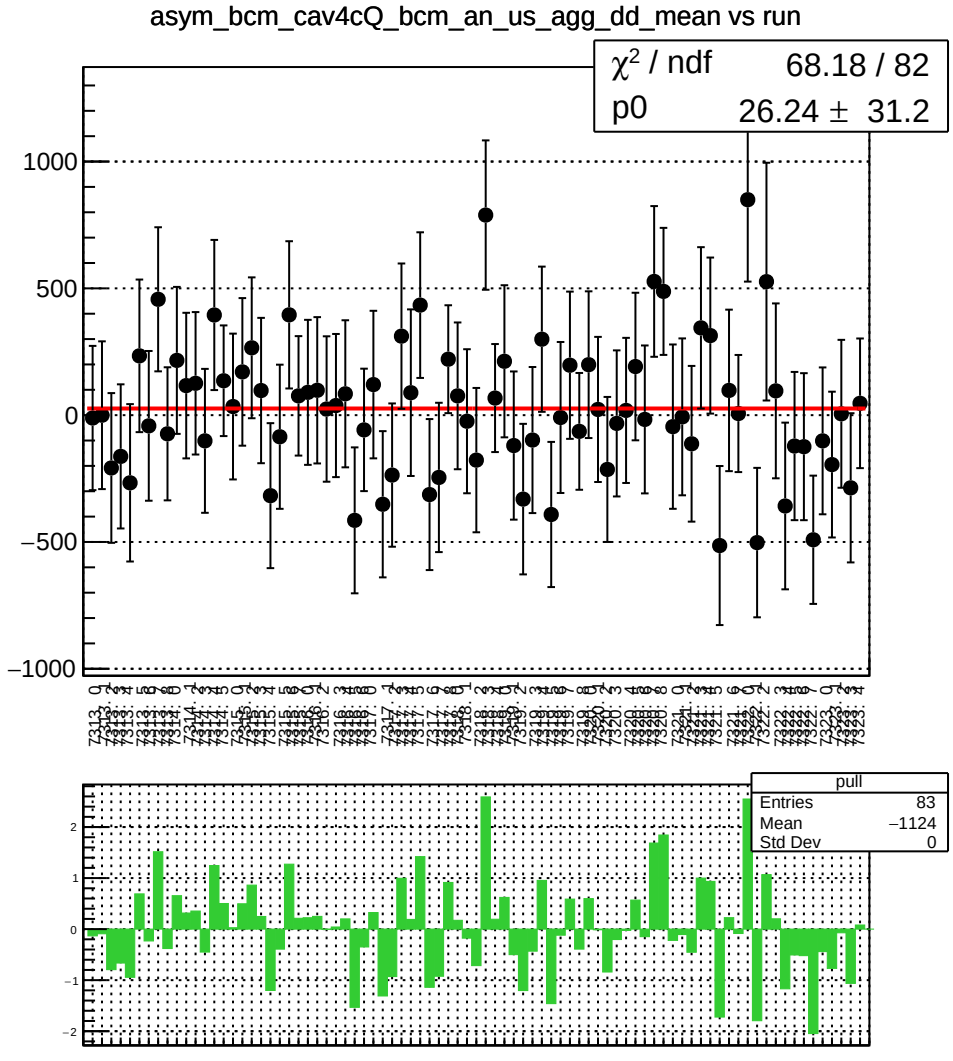

pull1D
Entries 83
Mean −0.00456
Std Dev 1.161
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

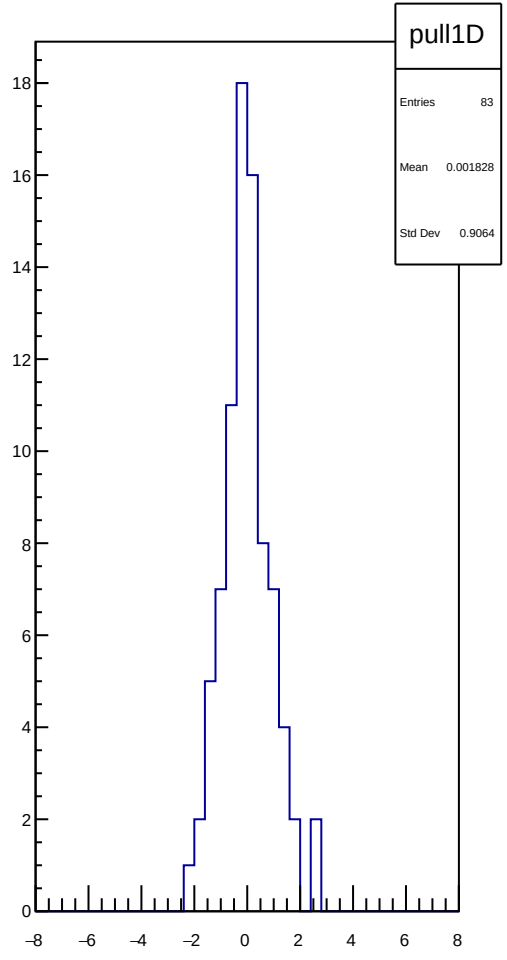

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3520 / 82
p0 27.45 ± 0.02165
30
29
28
27
26
25

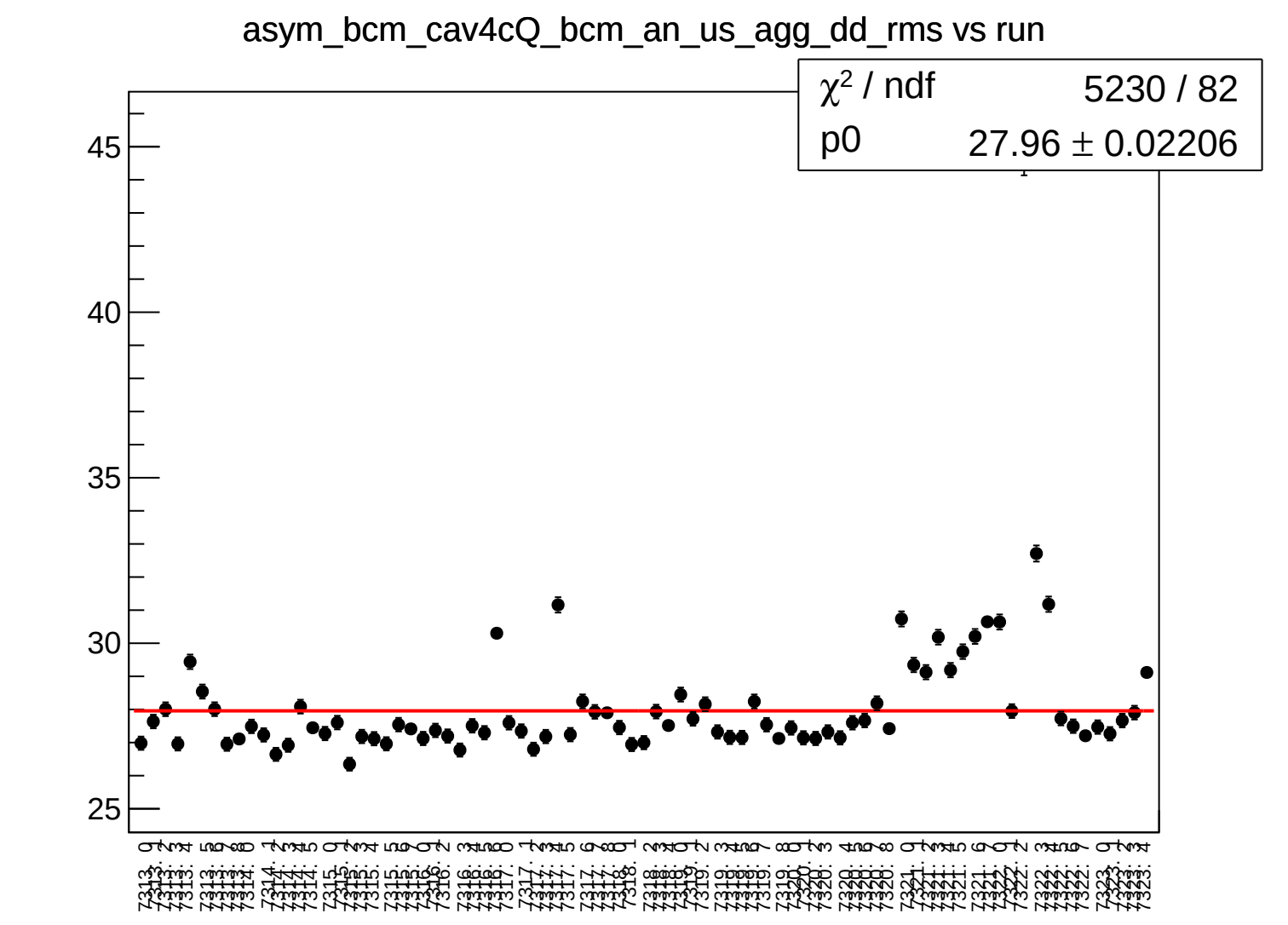

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.32 / 82
p0 212.4 ± 188.9
pull
Entries 83
Mean 76.85
Std Dev 0

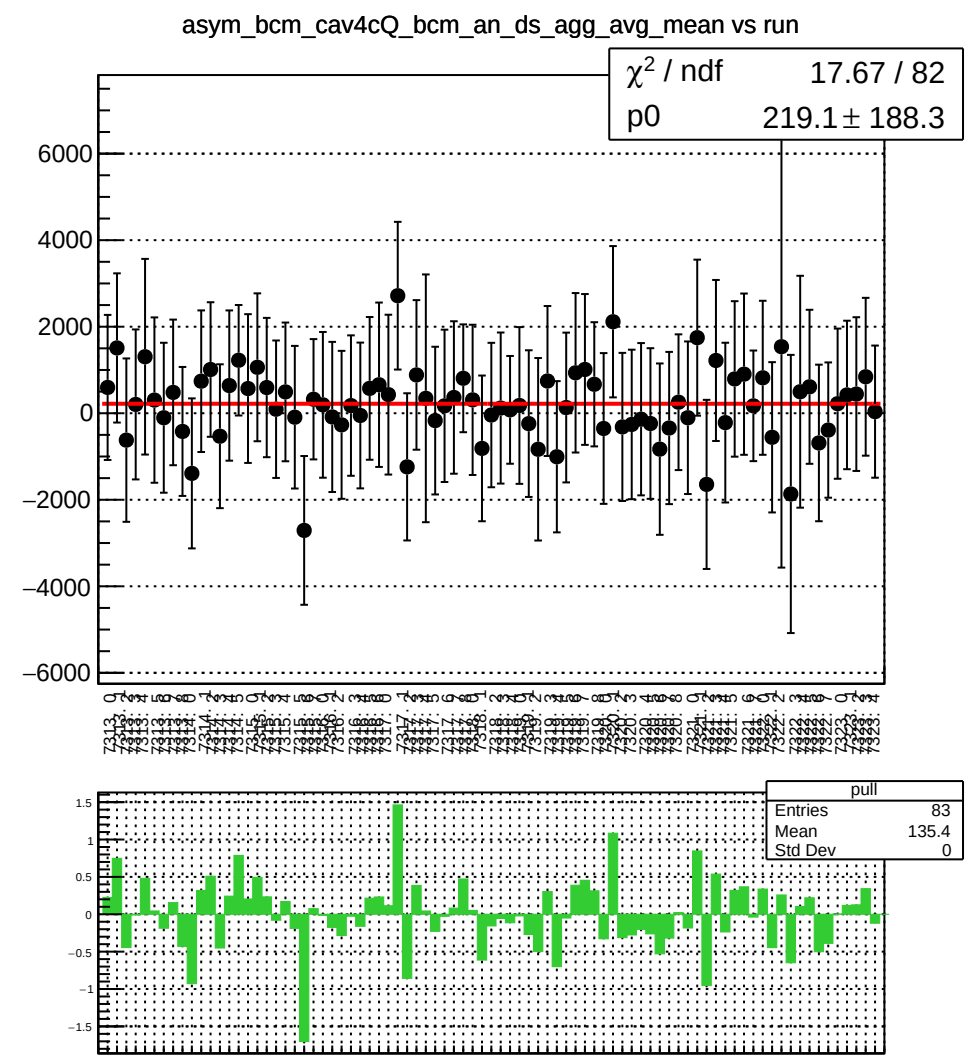

pull1D
Entries 83
Mean −0.006913
Std Dev 0.4567

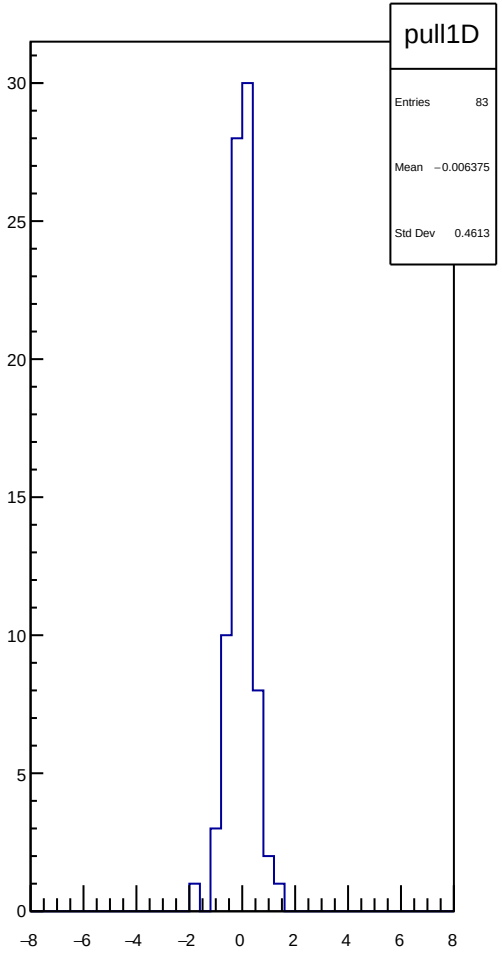

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.344e+04 / 82
p0 168.4 ± 0.1336
500
450
400
350
300
250
200
150

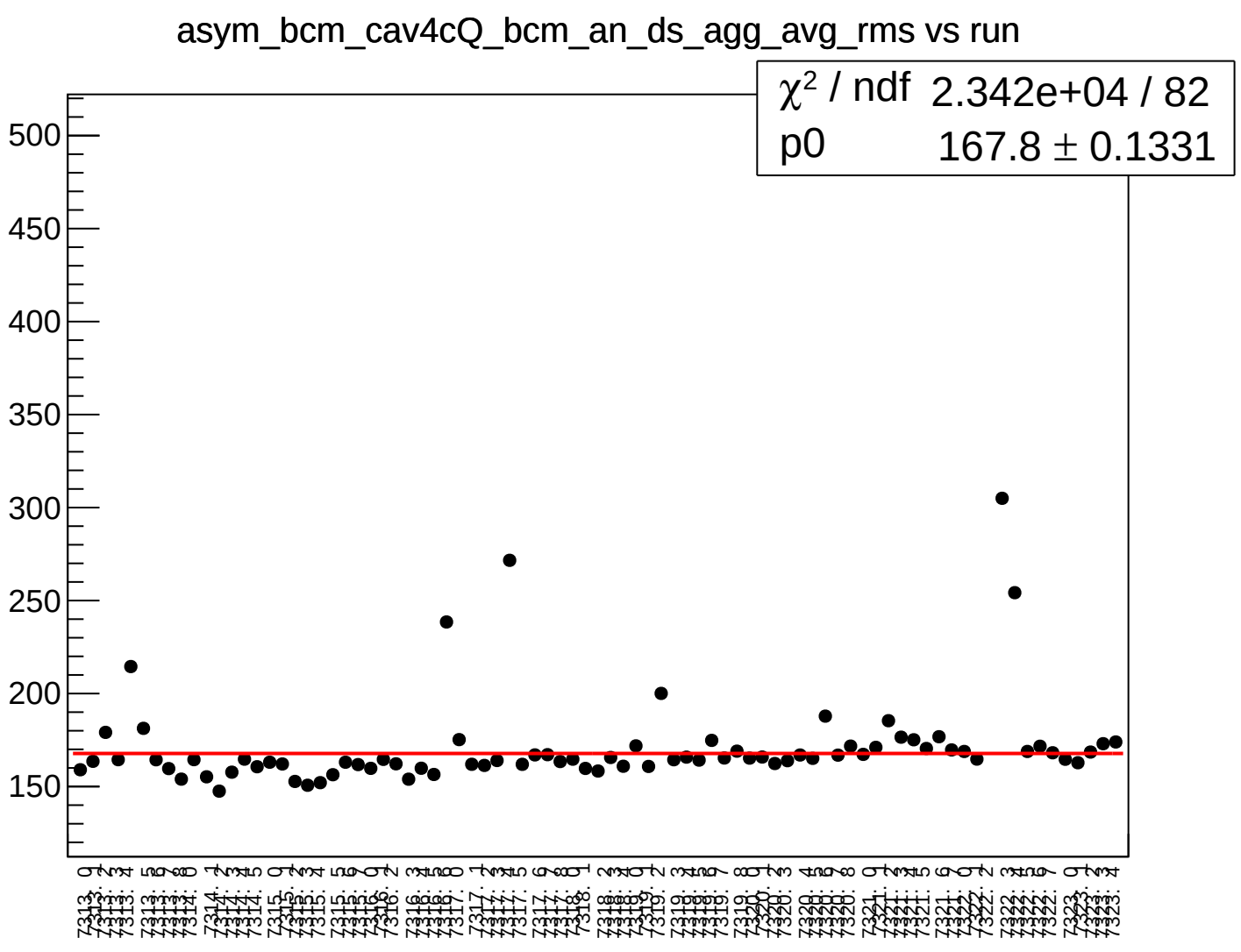

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 68.18 / 82
p0 26.24 ± 31.2
1000
500
0
−500
−1000
pull
Entries 83
Mean −1124
Std Dev 0
2
1
0
−1
−2

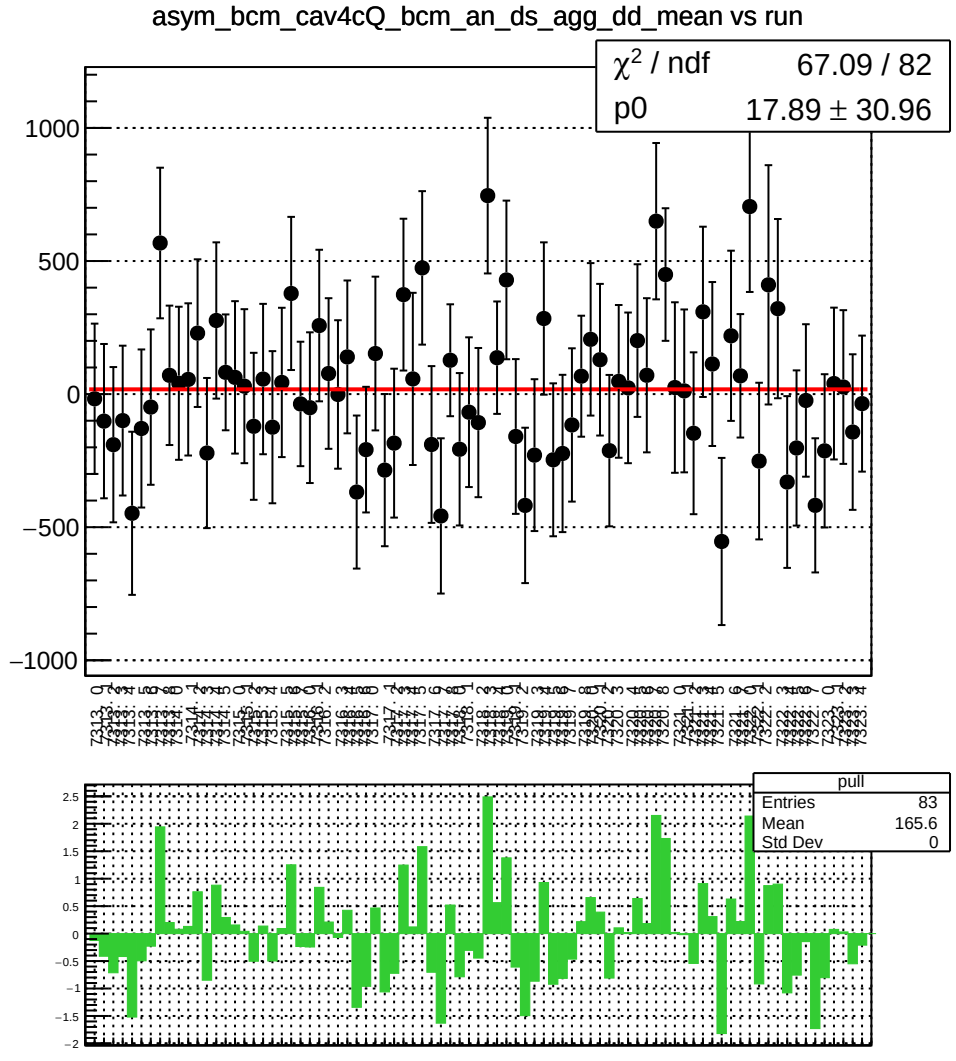

pull1D
Entries 83
Mean 0.001828
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

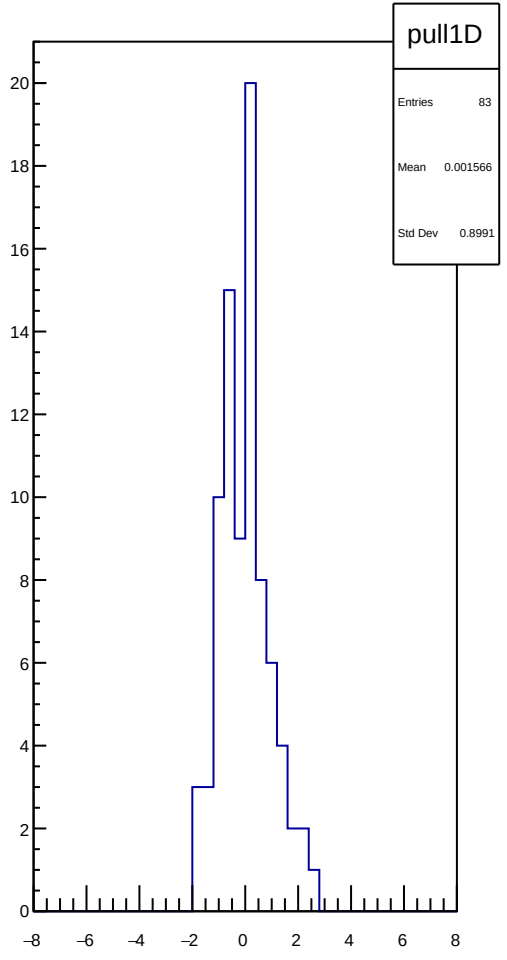

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5230 / 82
p0 27.96 ± 0.02206
45
40
35
30
25

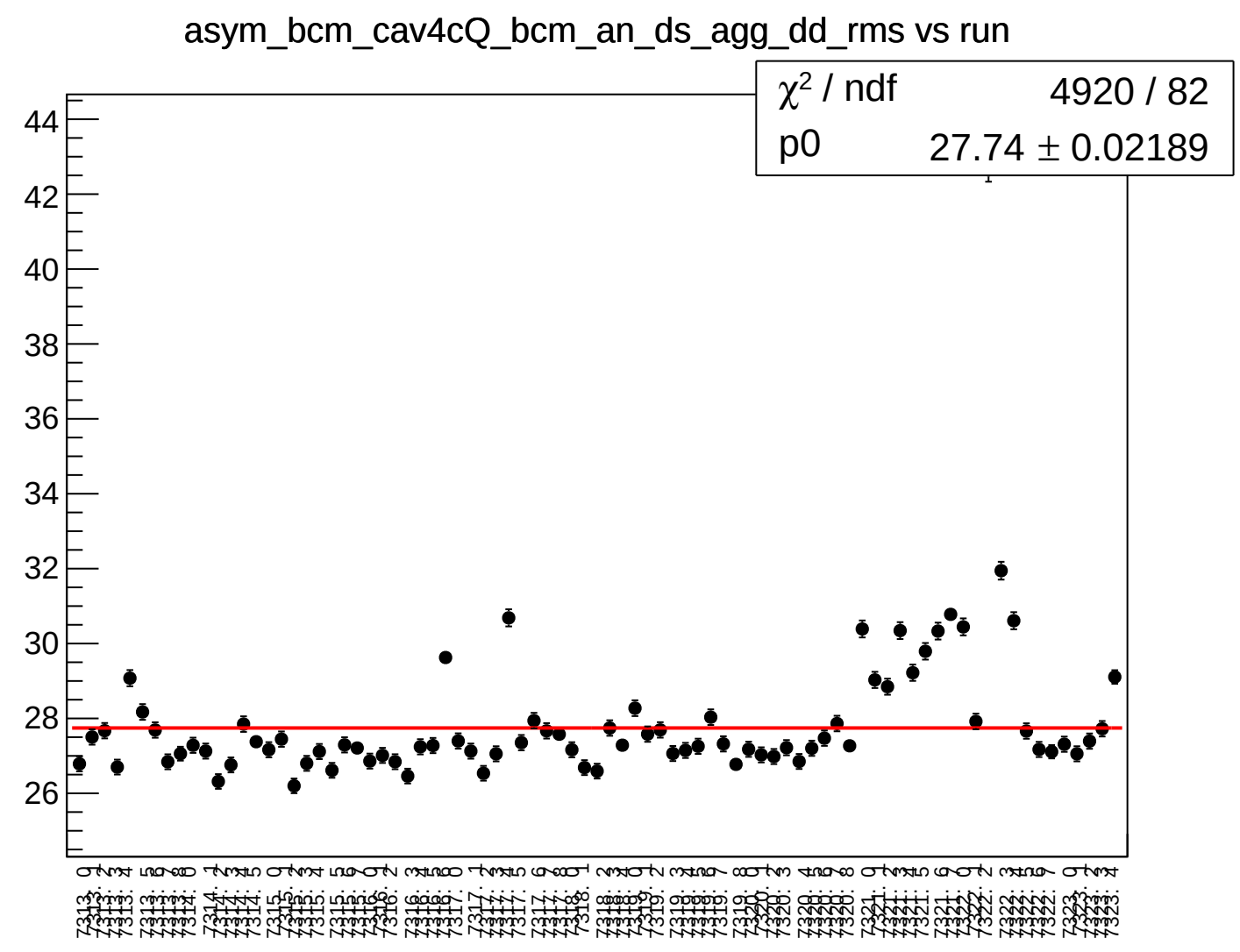

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.67 / 82
p0 219.1 ± 188.3
pull
Entries 83
Mean 135.4
Std Dev 0

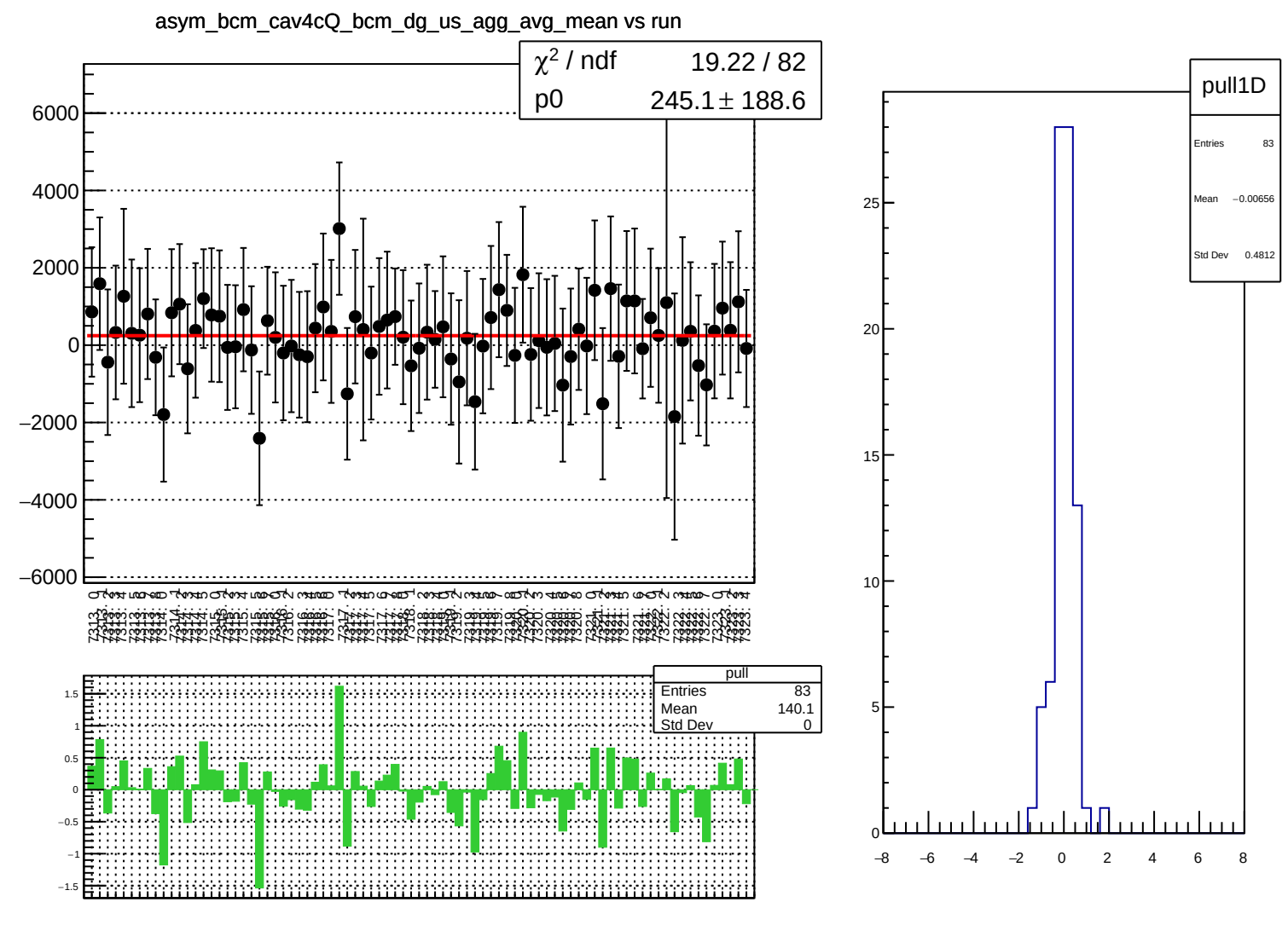

pull1D
Entries 83
Mean −0.006375
Std Dev 0.4613

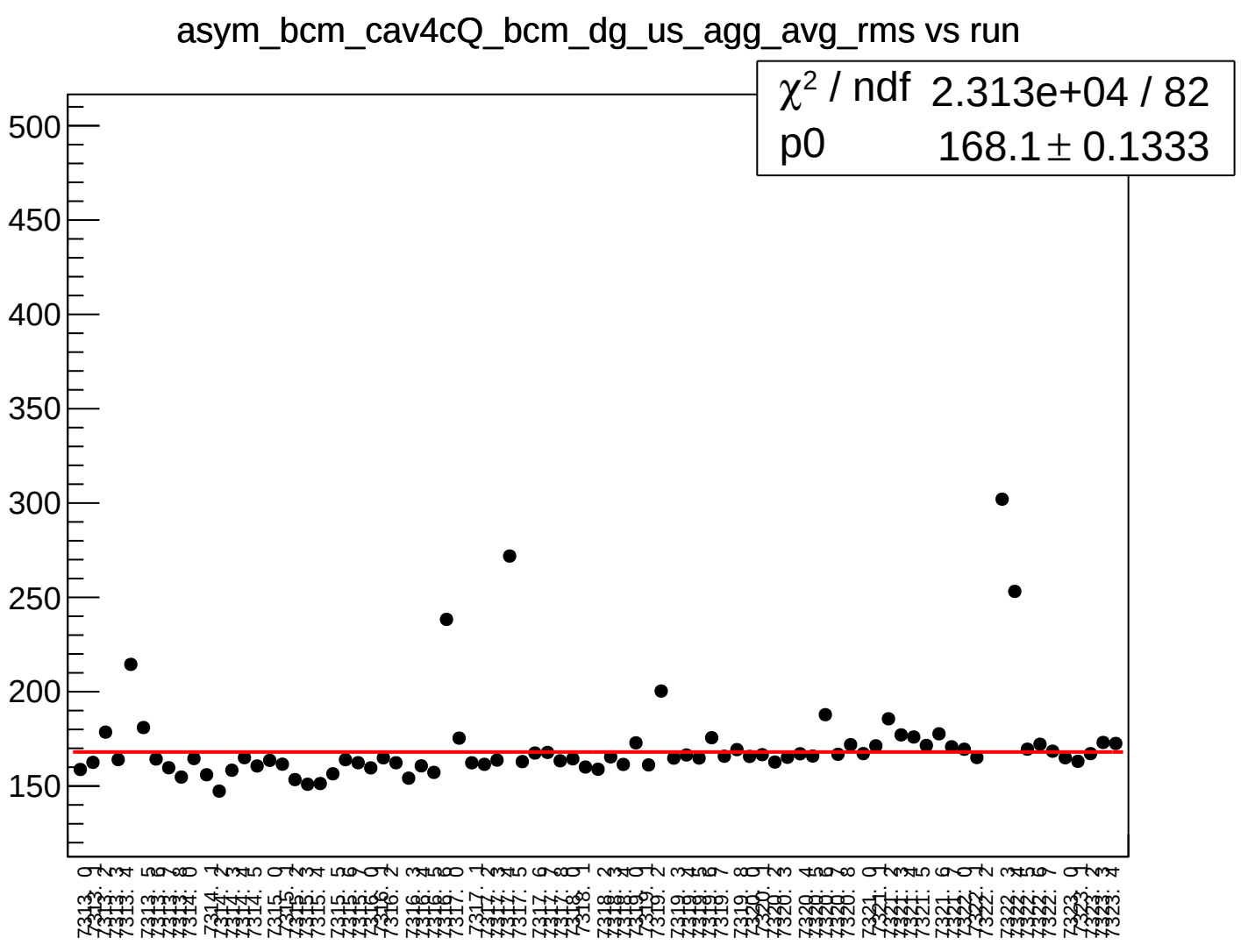

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.342e+04 / 82
p0 167.8 ± 0.1331
500
450
400
350
300
250
200
150

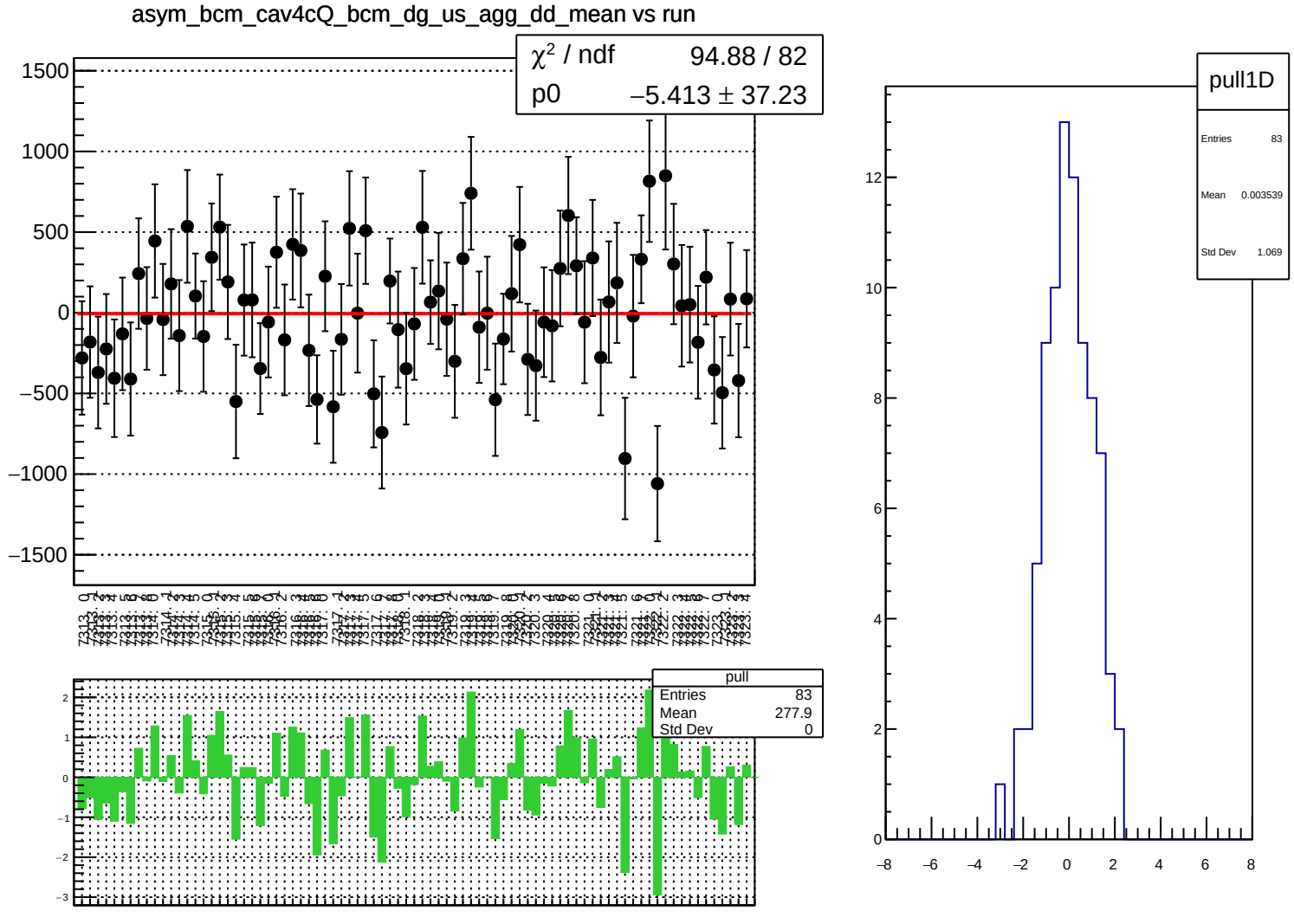

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.09 / 82
p0 17.89 ± 30.96
1000
500
0
−500
−1000
pull
Entries 83
Mean 165.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

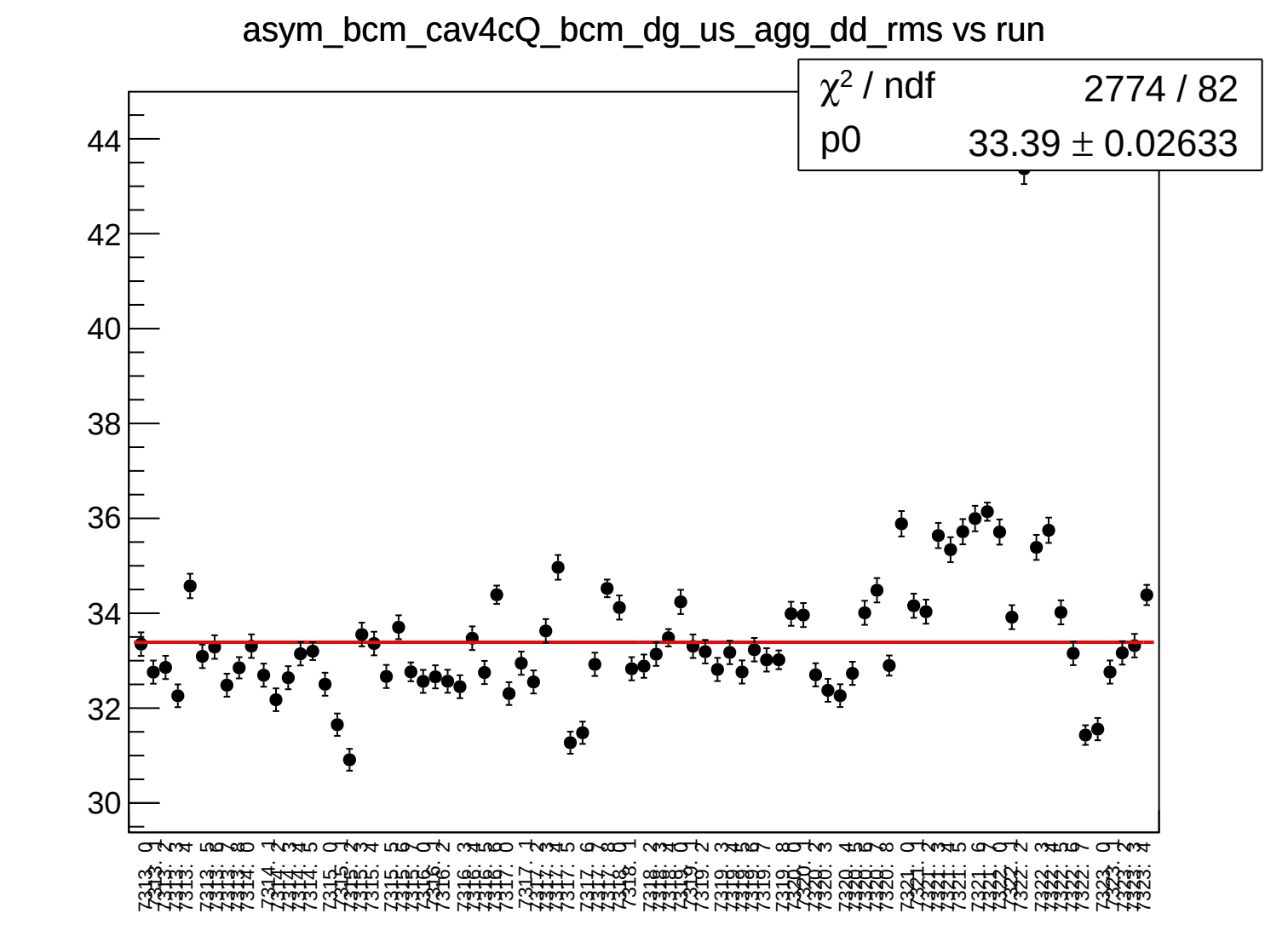

pull1D
Entries 83
Mean 0.001566
Std Dev 0.8991
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

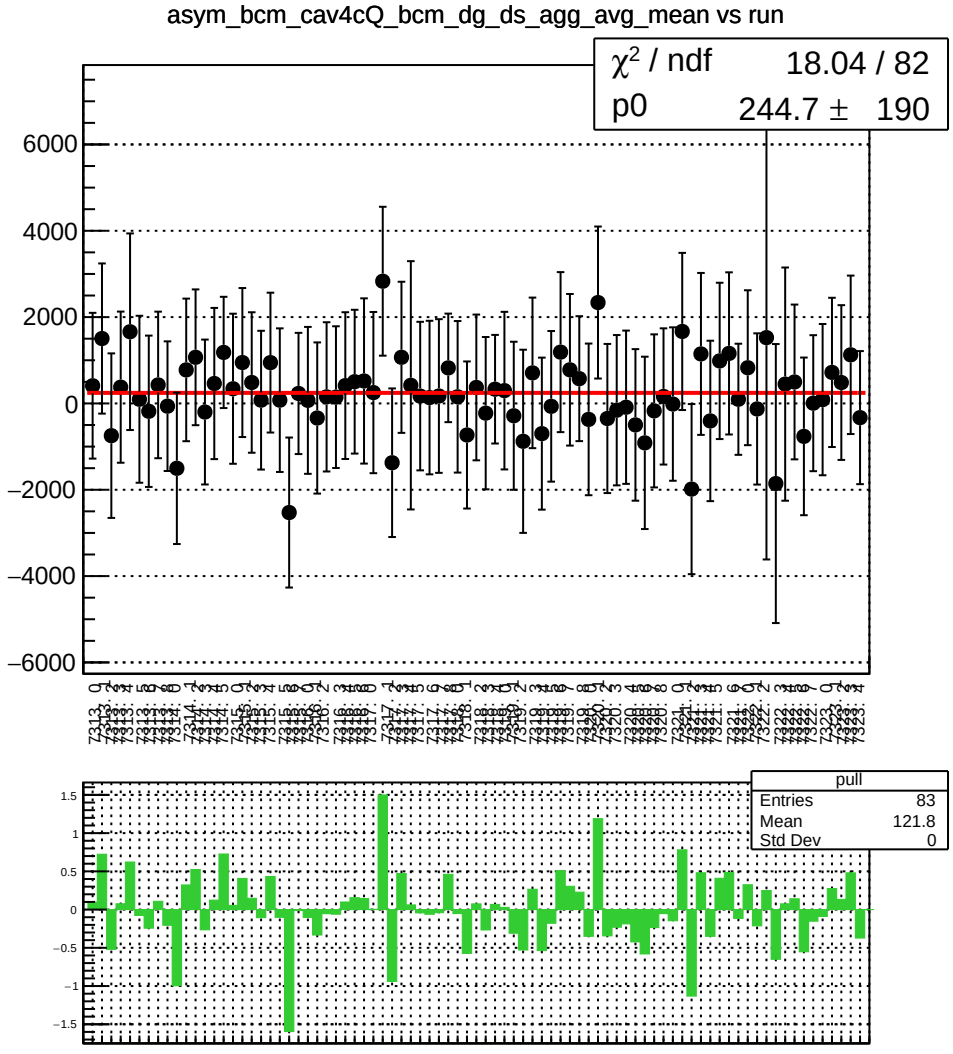

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4920 / 82
p0 27.74 ± 0.02189
44
42
40
38
36
34
32
30
28
26

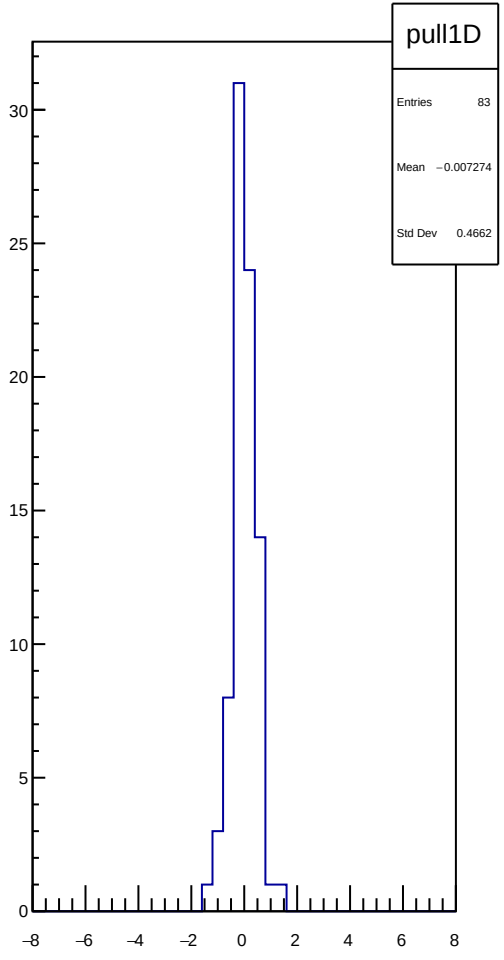

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 19.22 / 82
p0 245.1 ± 188.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 140.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.00656
Std Dev 0.4812
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

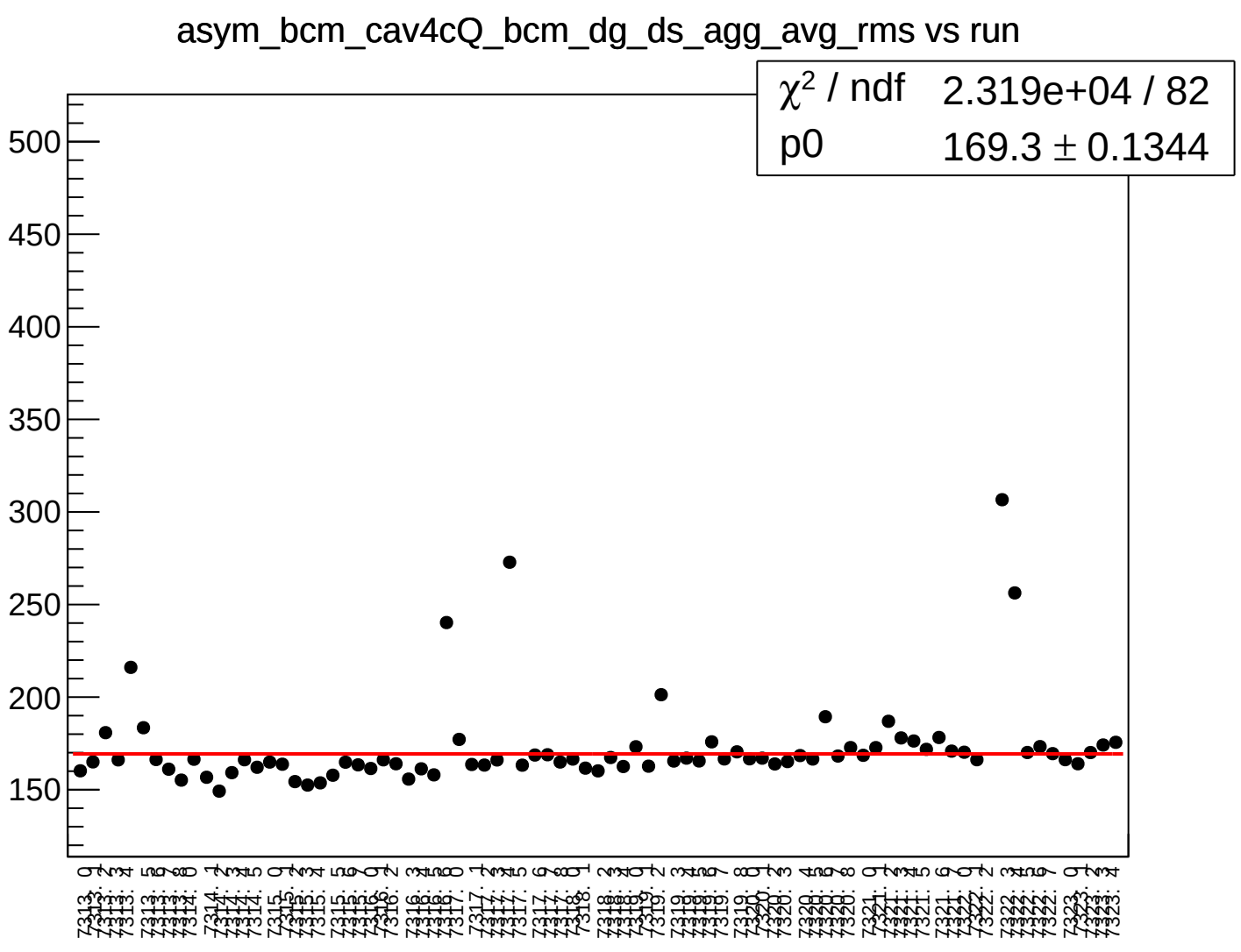

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.313e+04 / 82
p0 168.1 ± 0.1333
500
450
400
350
300
250
200
150

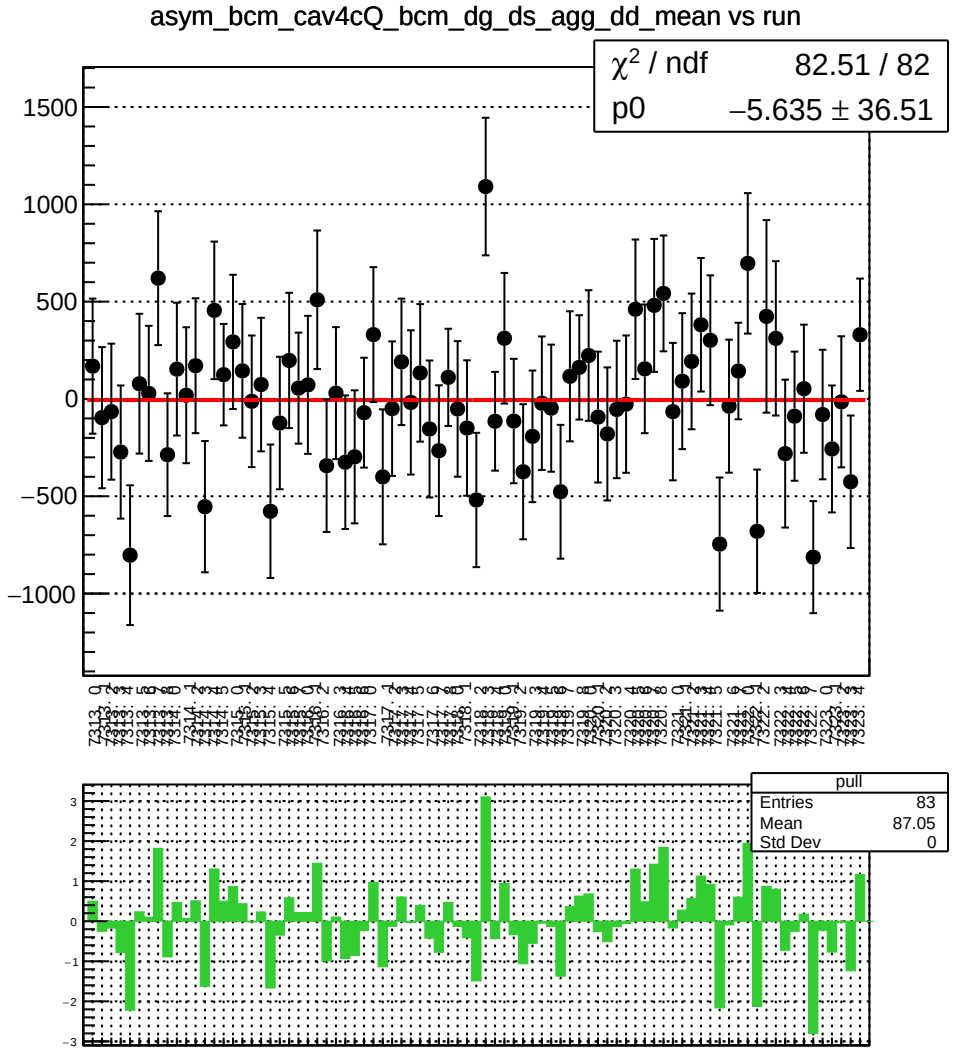

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 94.88 / 82
p0 −5.413 ± 37.23
pull
Entries 83
Mean 277.9
Std Dev 0
pull1D
Entries 83
Mean 0.003539
Std Dev 1.069

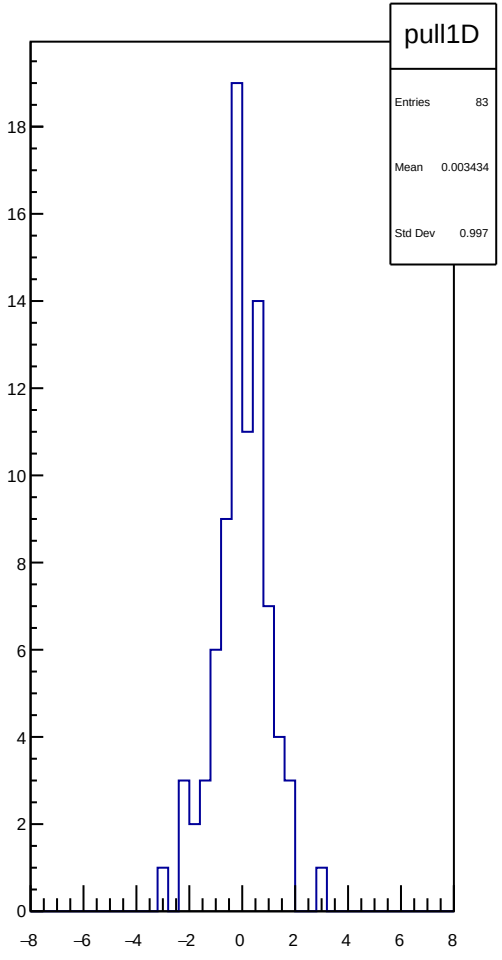

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2774 / 82
p0 33.39 ± 0.02633
44
42
40
38
36
34
32
30

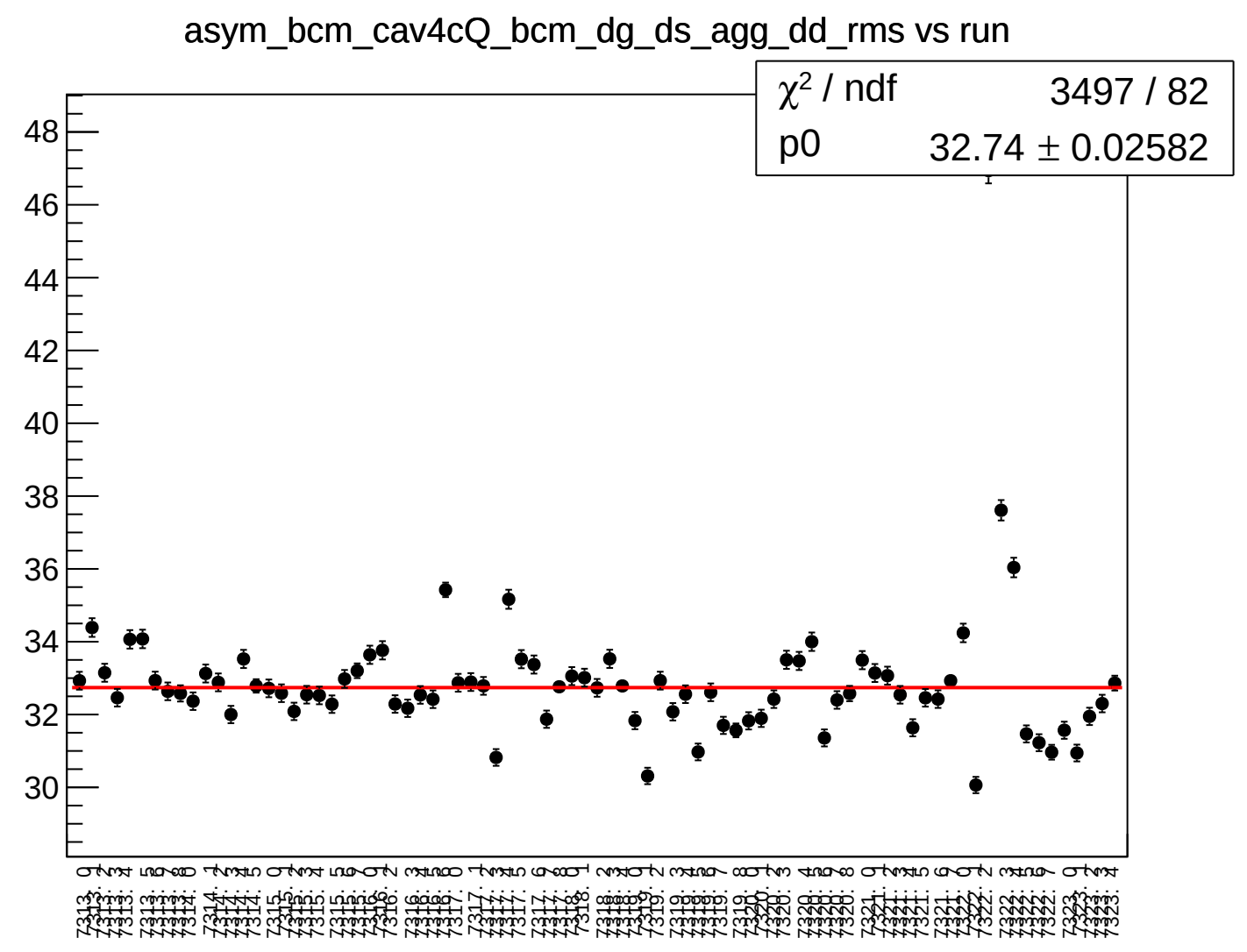

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.04 / 82
p0 244.7 ± 190
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 121.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

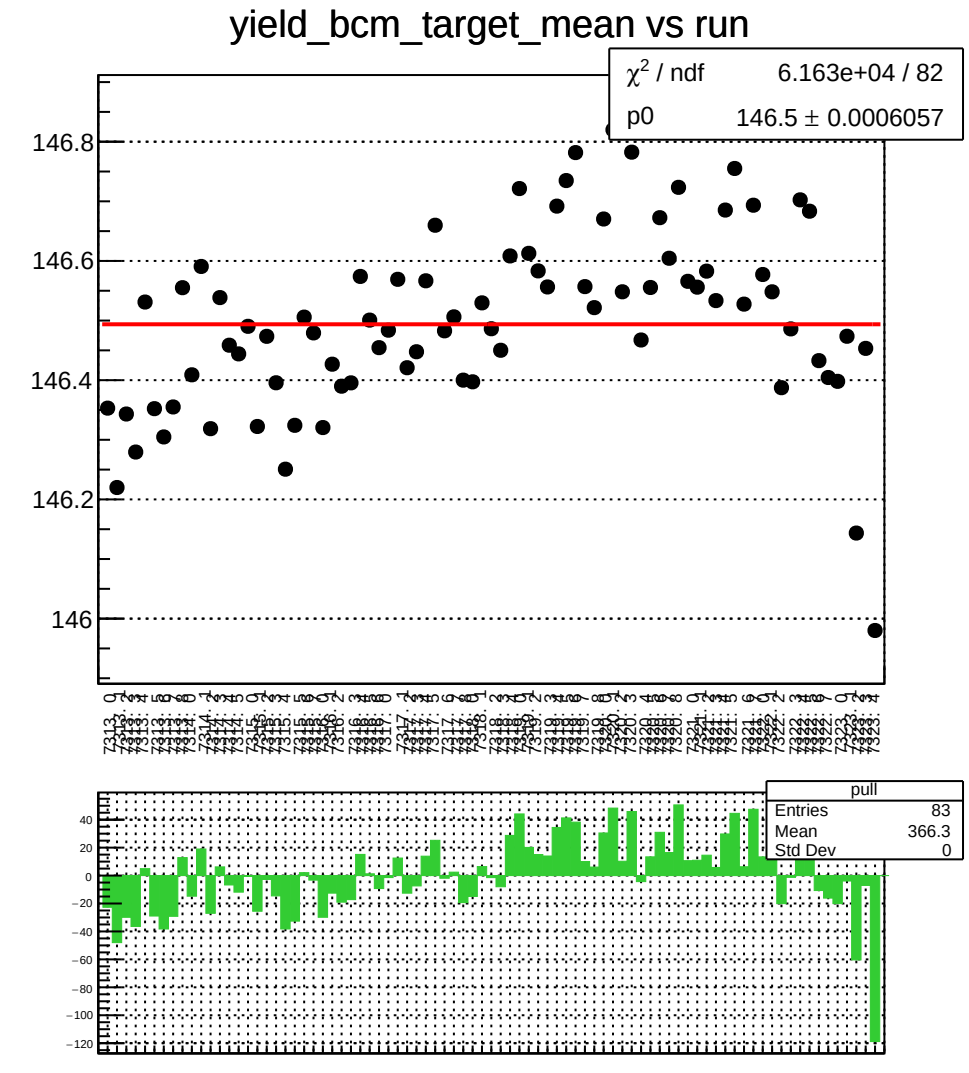

pull1D
Entries 83
Mean −0.007274
Std Dev 0.4662
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

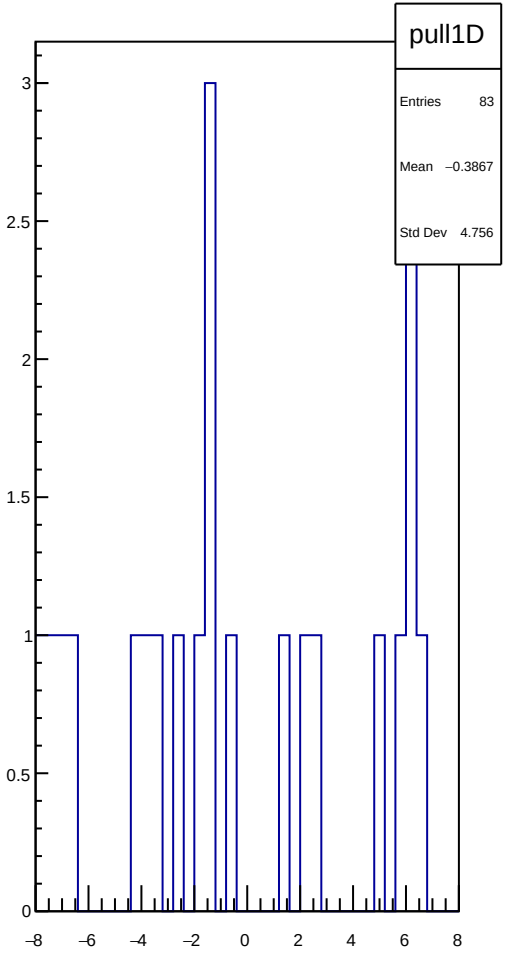

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.319e+04 / 82
p0 169.3 ± 0.1344
500
450
400
350
300
250
200
150

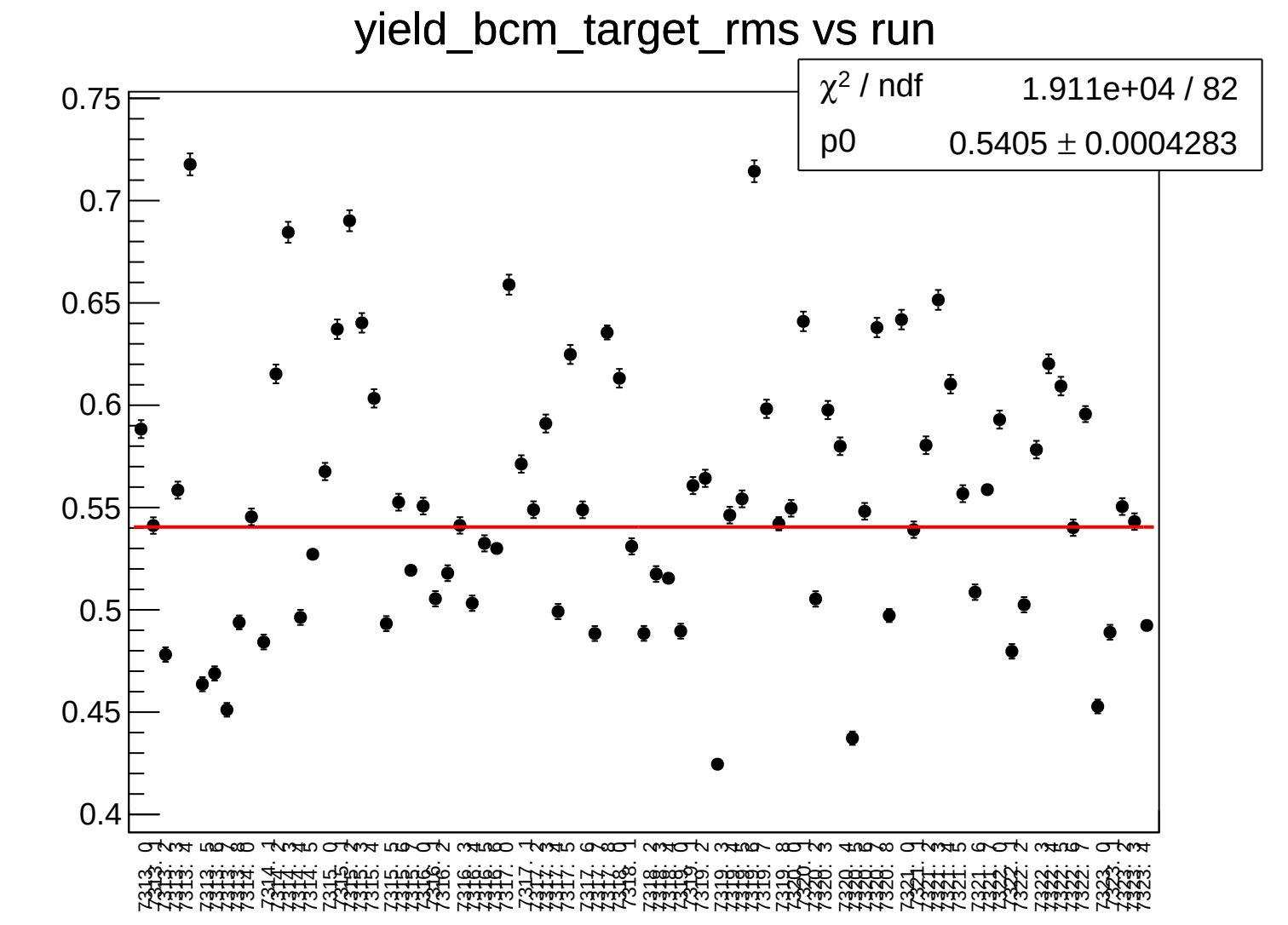

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.51 / 82
p0 −5.635 ± 36.51
pull
Entries 83
Mean 87.05
Std Dev 0

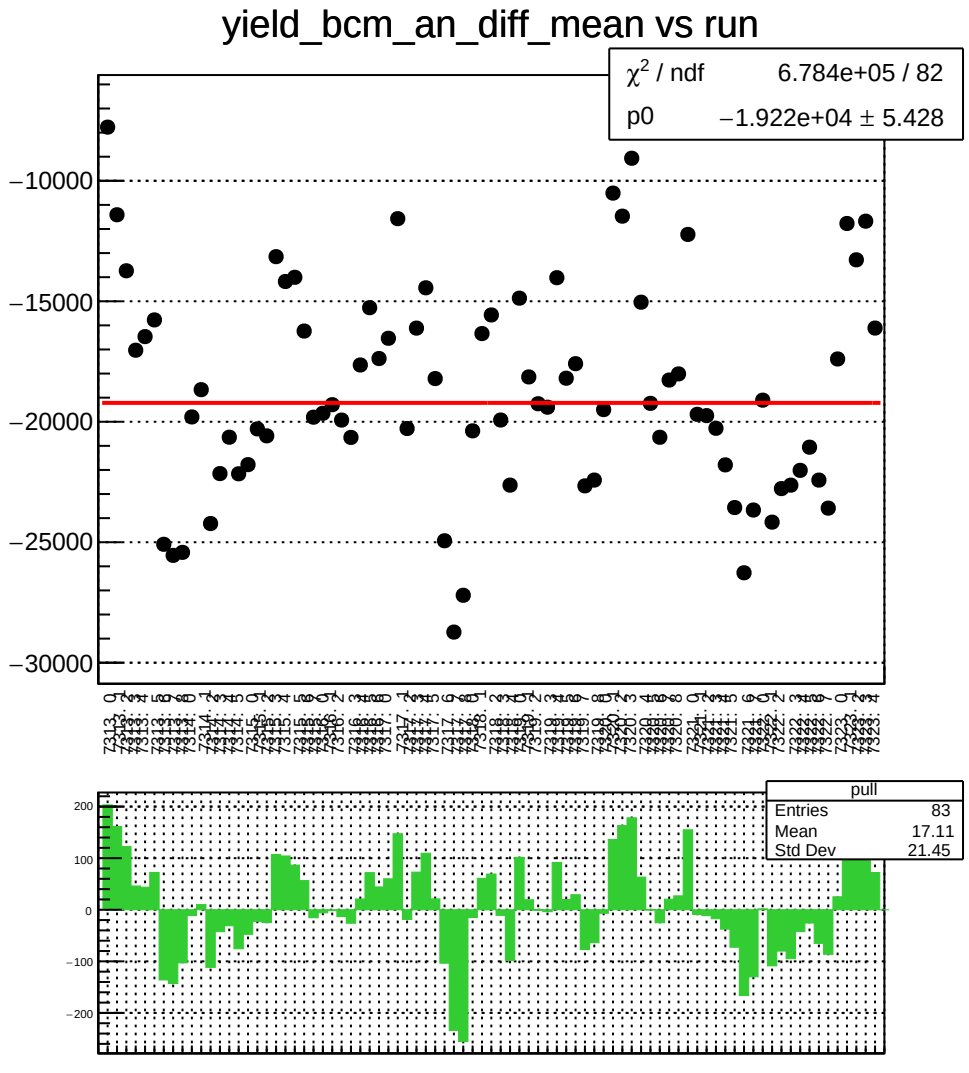

pull1D
Entries 83
Mean 0.003434
Std Dev 0.997

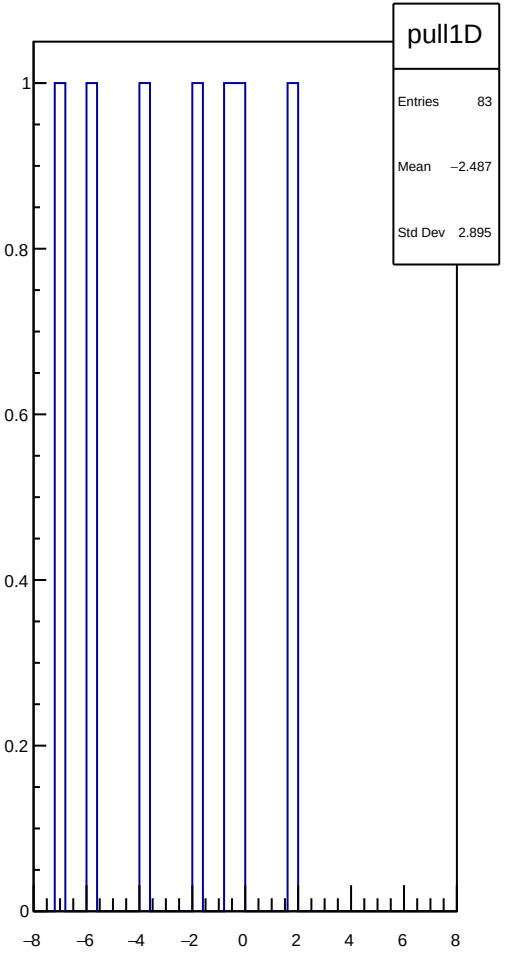

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3497 / 82
p0 32.74 ± 0.02582
48
46
44
42
40
38
36
34
32
30

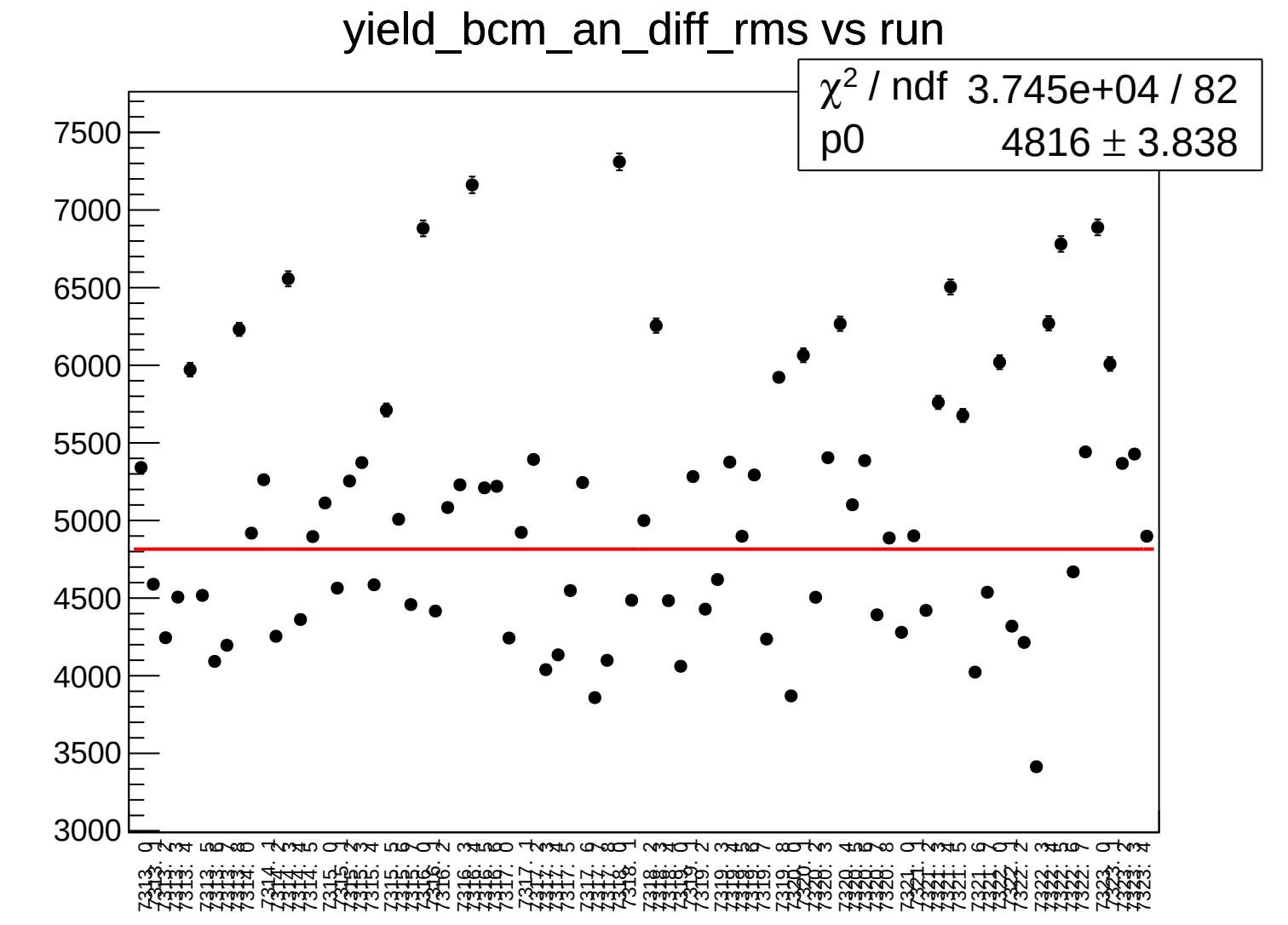

yield_bcm_target_mean vs run
χ² / ndf 6.163e+04 / 82
p0 146.5 ± 0.0006057
146.8
146.6
146.4
146.2
146
pull
Entries 83
Mean 366.3
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

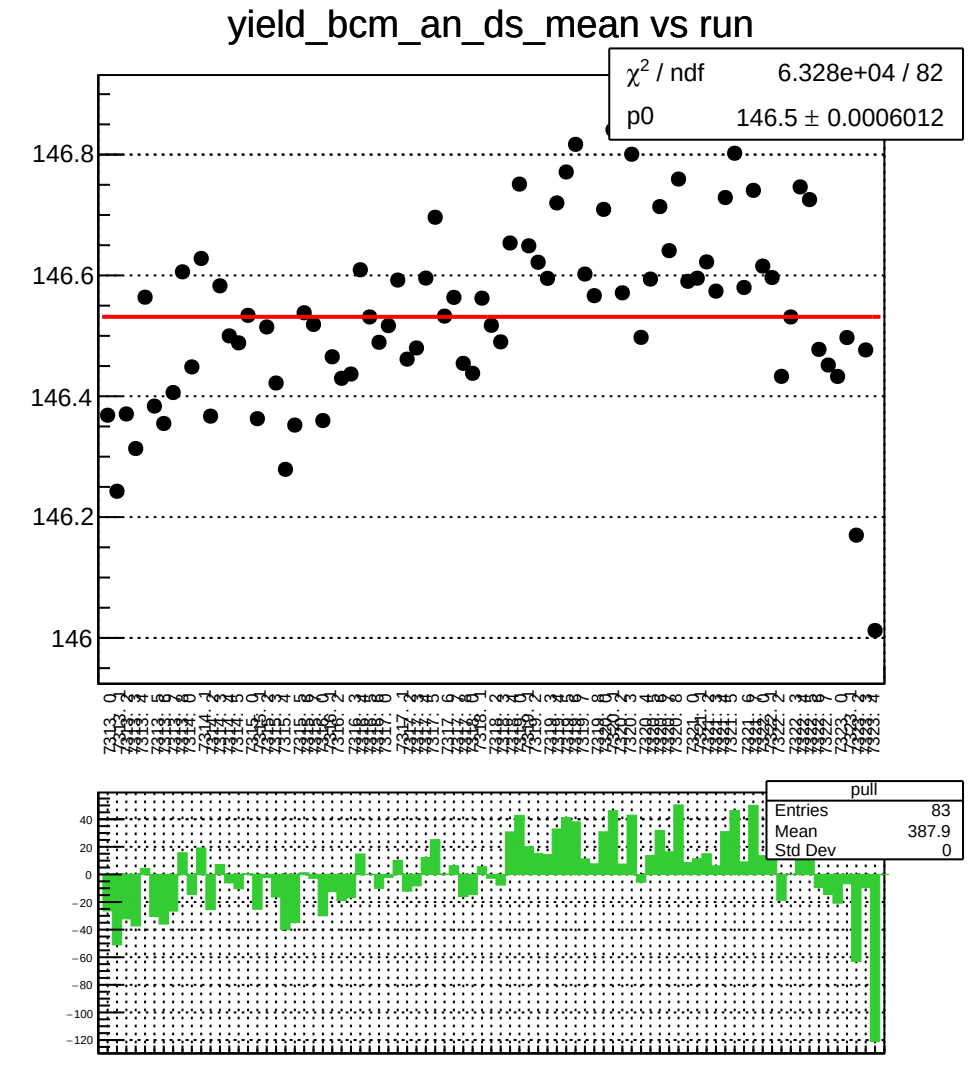

pull1D
Entries 83
Mean −0.3867
Std Dev 4.756
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

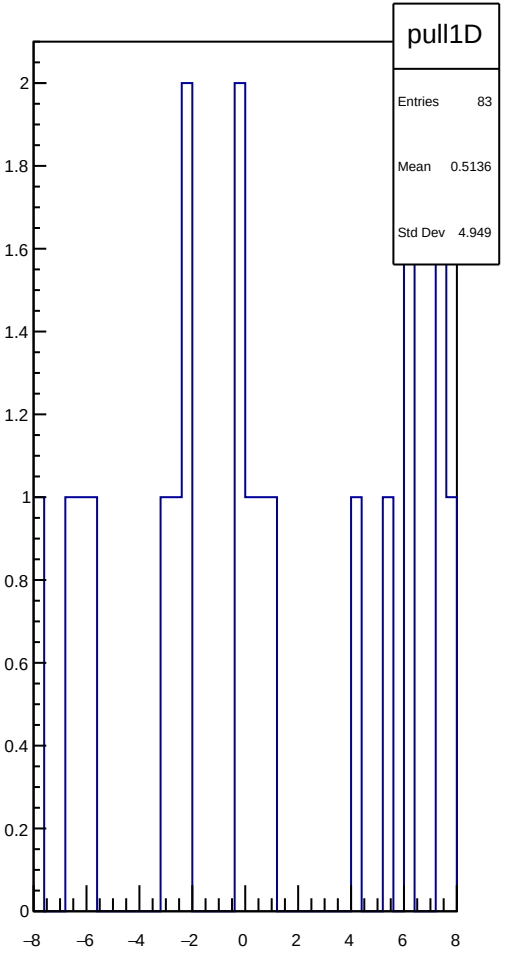

yield_bcm_target_rms vs run
χ² / ndf 1.911e+04 / 82
p0 0.5405 ± 0.0004283
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

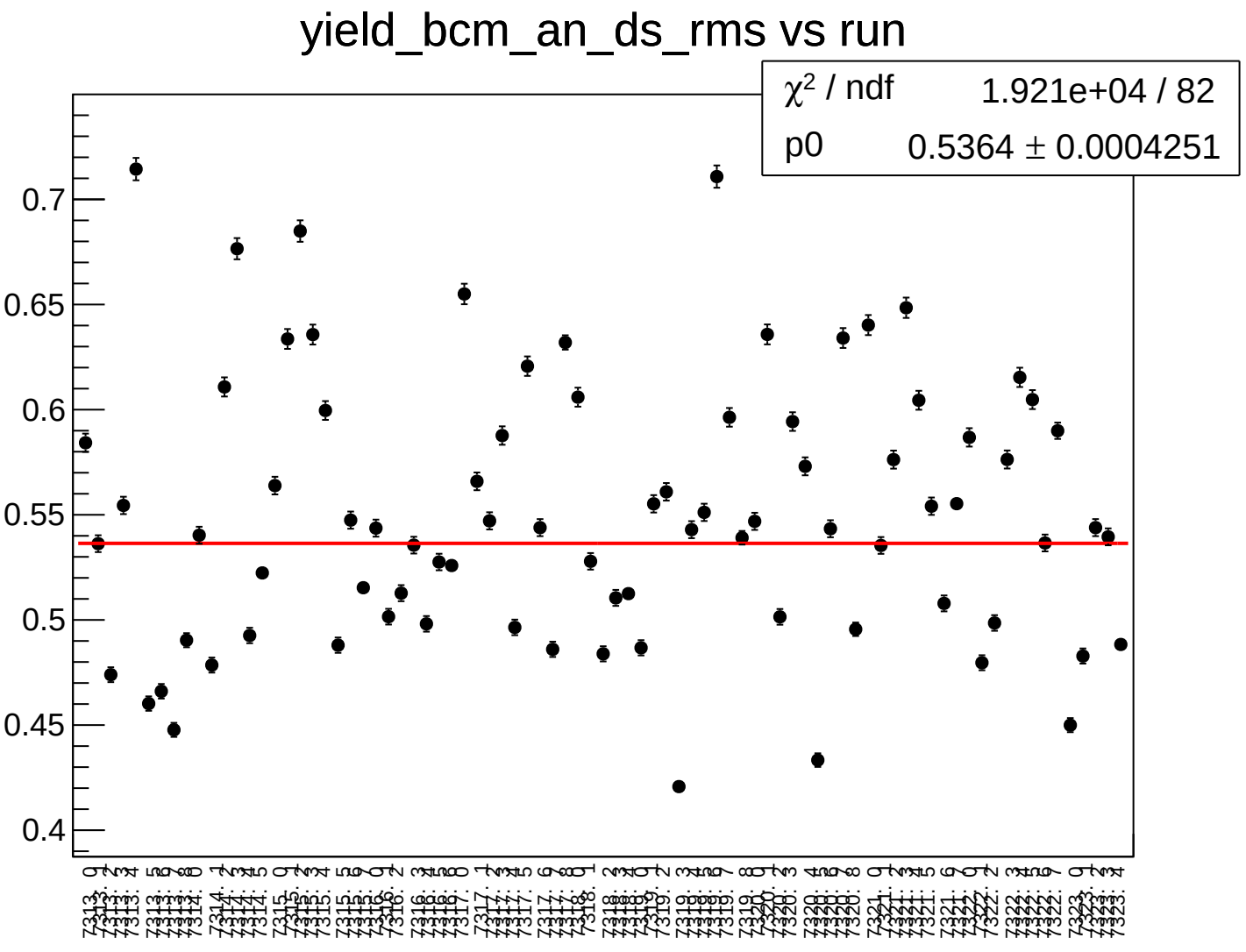

yield_bcm_an_diff_mean vs run
χ² / ndf 6.784e+05 / 82
p0 −1.922e+04 ± 5.428
−10000
−15000
−20000
−25000
−30000
pull
Entries 83
Mean 17.11
Std Dev 21.45
200
100
0
−100
−200

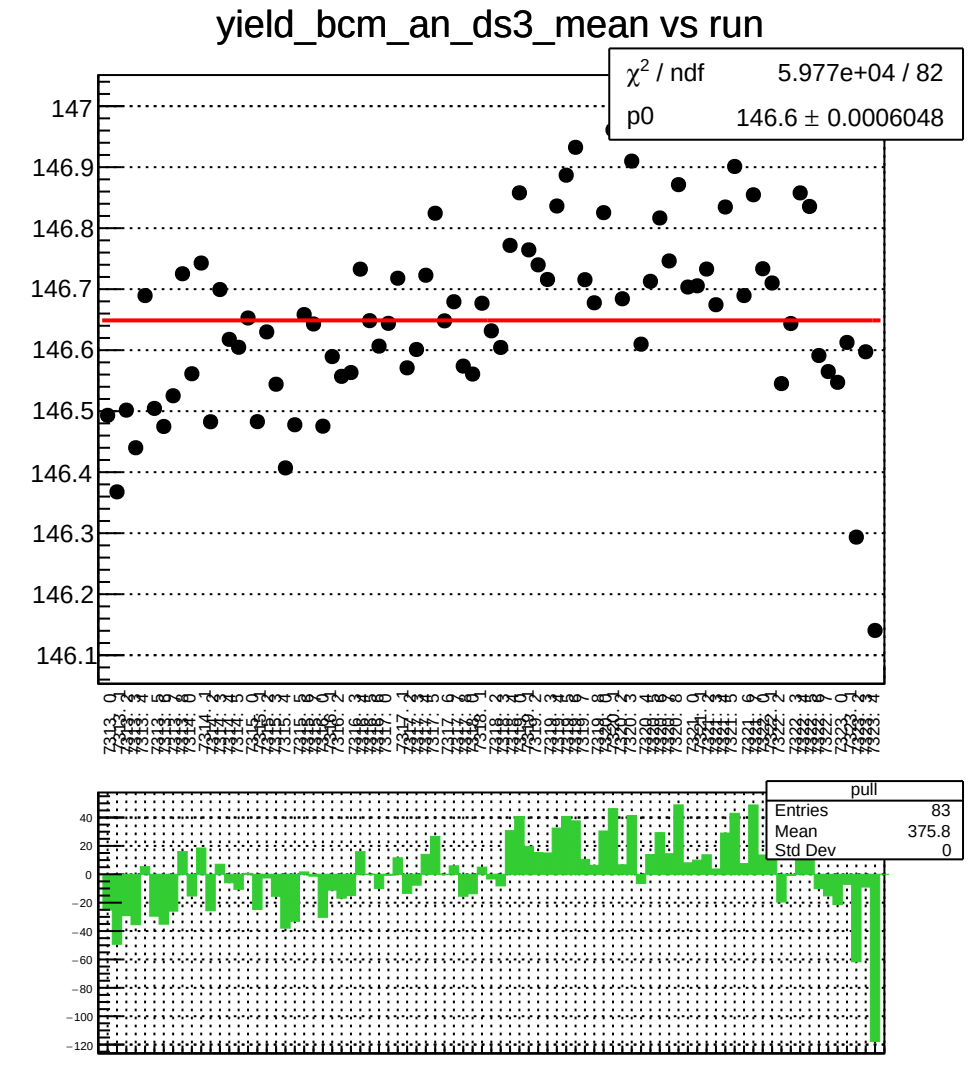

pull1D
Entries 83
Mean −2.487
Std Dev 2.895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

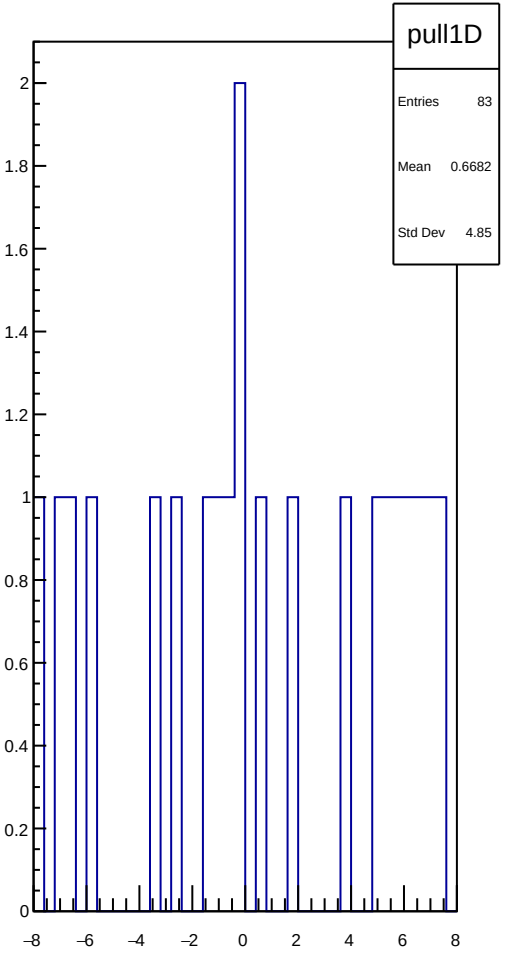

yield_bcm_an_diff_rms vs run
χ² / ndf 3.745e+04 / 82
p0 4816 ± 3.838
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

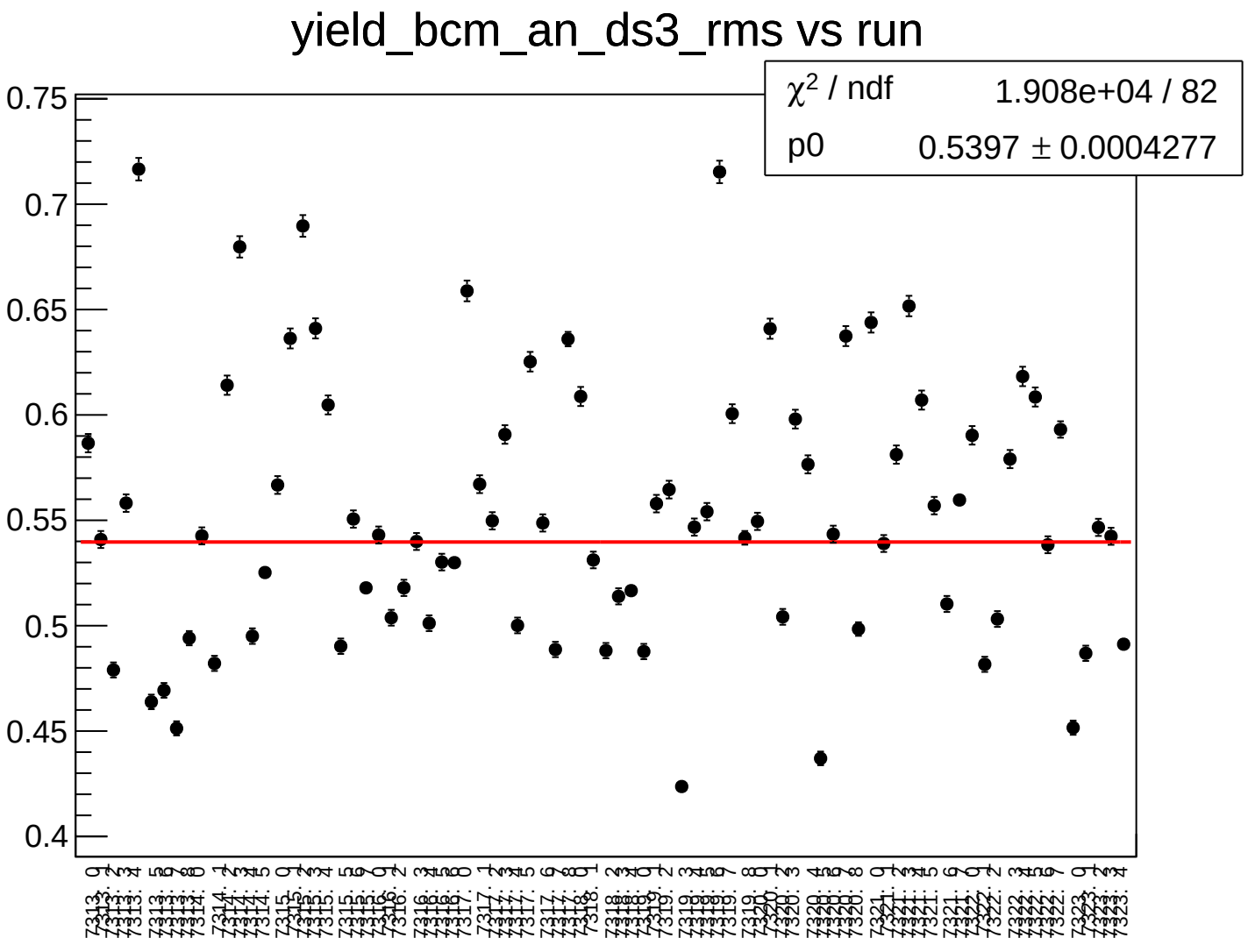

yield_bcm_an_ds_mean vs run
χ² / ndf 6.328e+04 / 82
p0 146.5 ± 0.0006012
146.8
146.6
146.4
146.2
146
pull
Entries 83
Mean 387.9
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

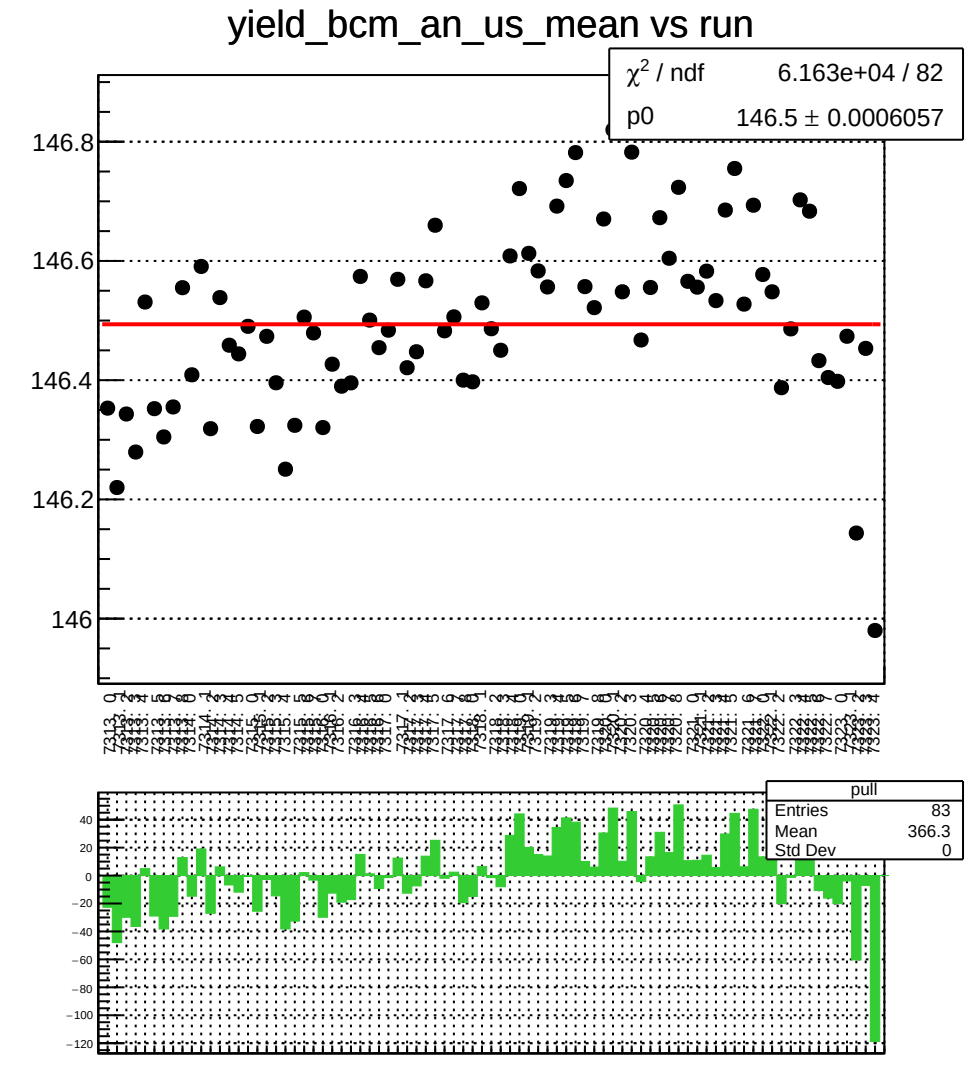

pull1D
Entries 83
Mean 0.5136
Std Dev 4.949
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

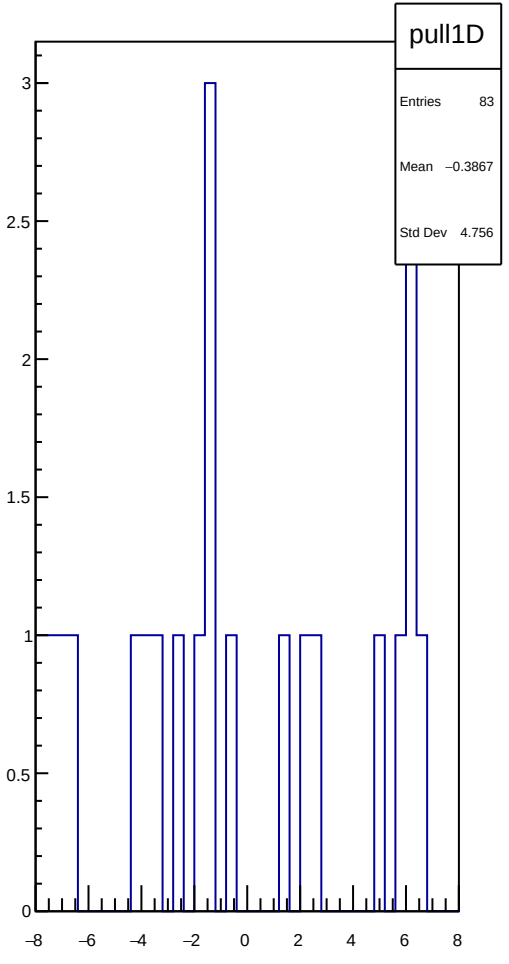

yield_bcm_an_ds_rms vs run
χ² / ndf 1.921e+04 / 82
p0 0.5364 ± 0.0004251
0.7
0.65
0.6
0.55
0.5
0.45
0.4

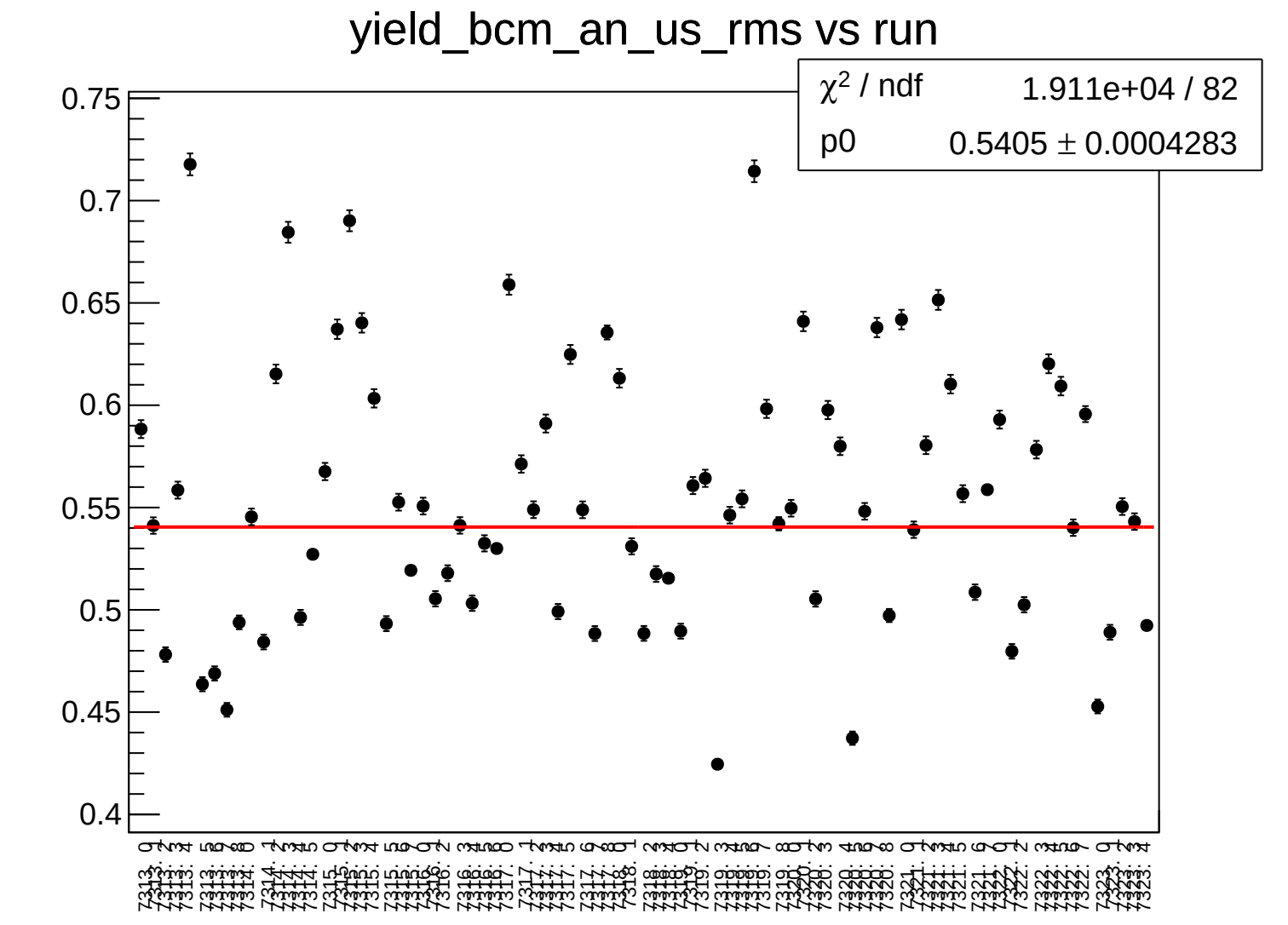

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.977e+04 / 82
p0 146.6 ± 0.0006048
147
146.9
146.8
146.7
146.6
146.5
146.4
146.3
146.2
146.1
pull
Entries 83
Mean 375.8
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

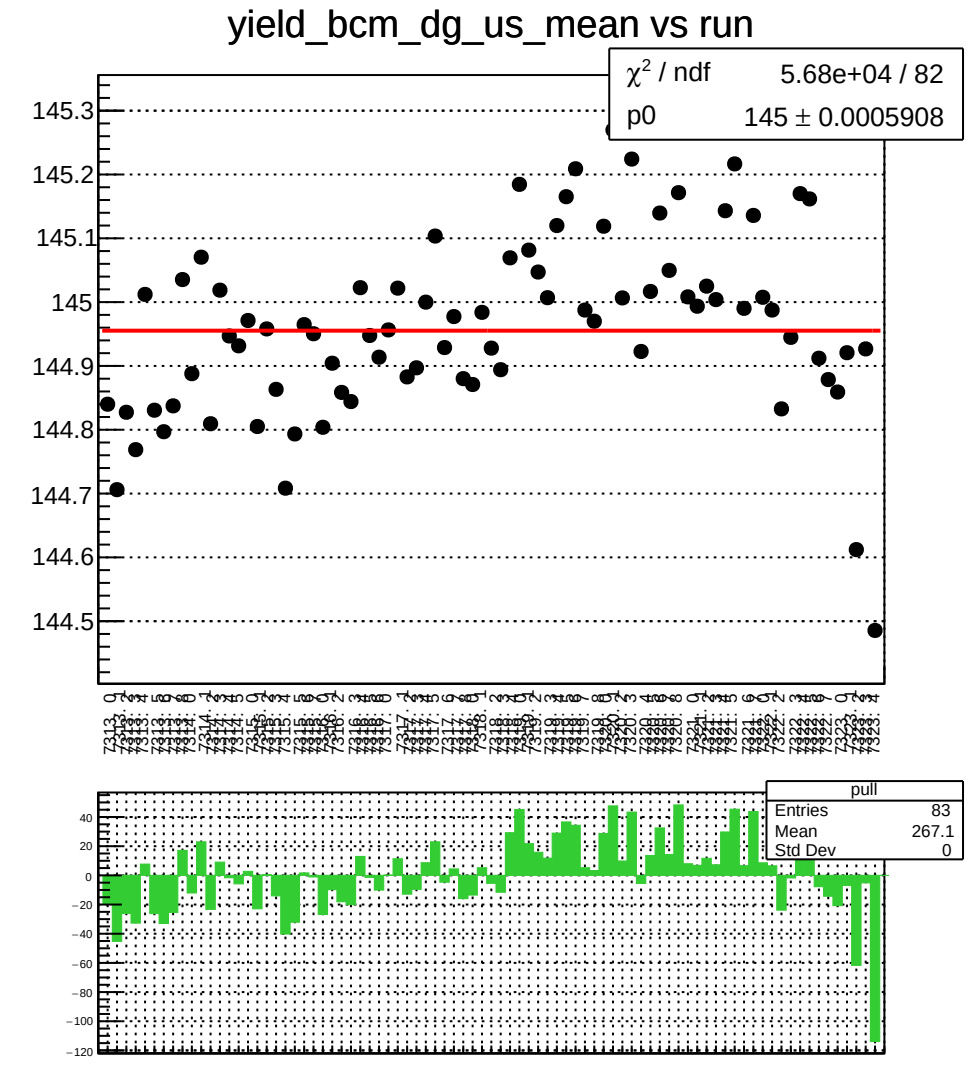

pull1D
Entries 83
Mean 0.6682
Std Dev 4.85
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

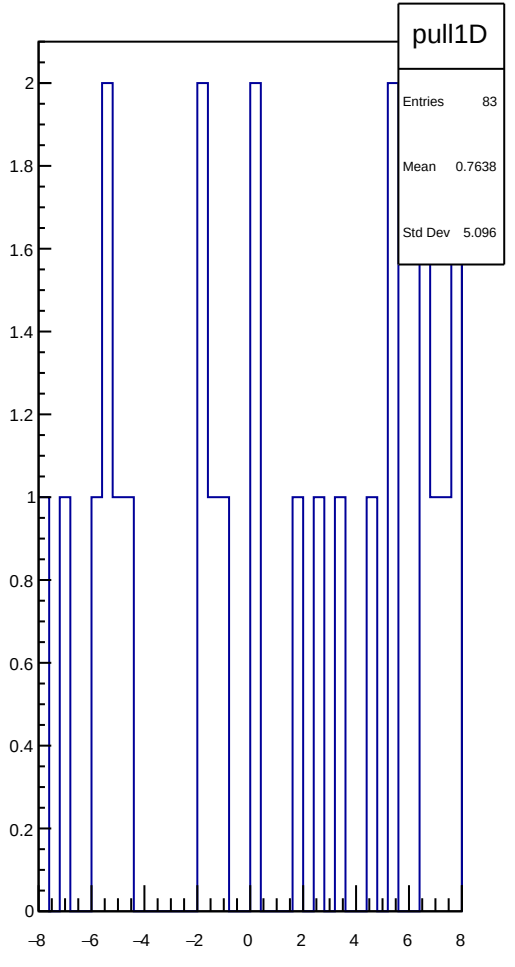

yield_bcm_an_ds3_rms vs run
χ2 / ndf 1.908e+04 / 82
p0 0.5397 ± 0.0004277
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

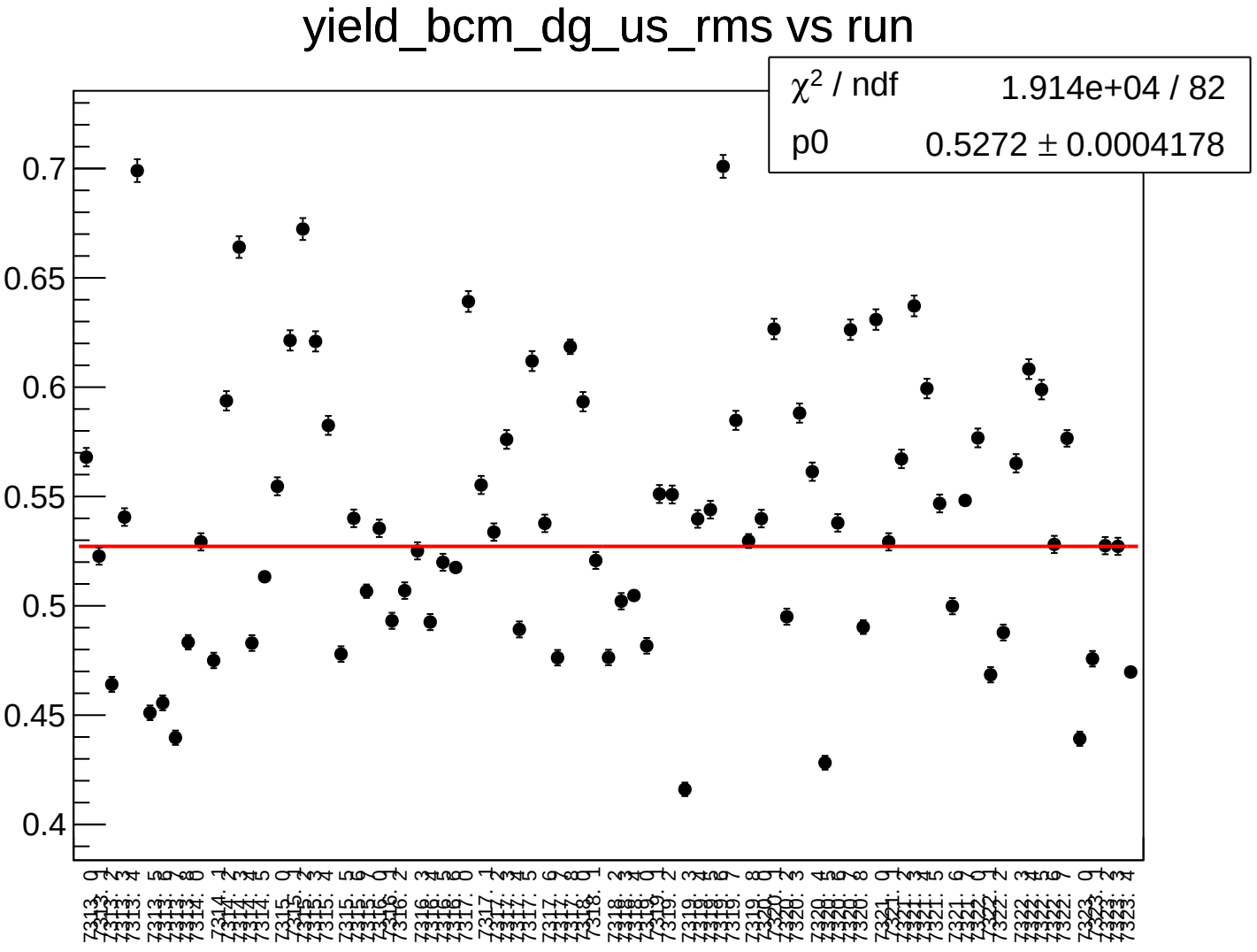

yield_bcm_an_us_mean vs run
χ² / ndf 6.163e+04 / 82
p0 146.5 ± 0.0006057
146.8
146.6
146.4
146.2
146
pull
Entries 83
Mean 366.3
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

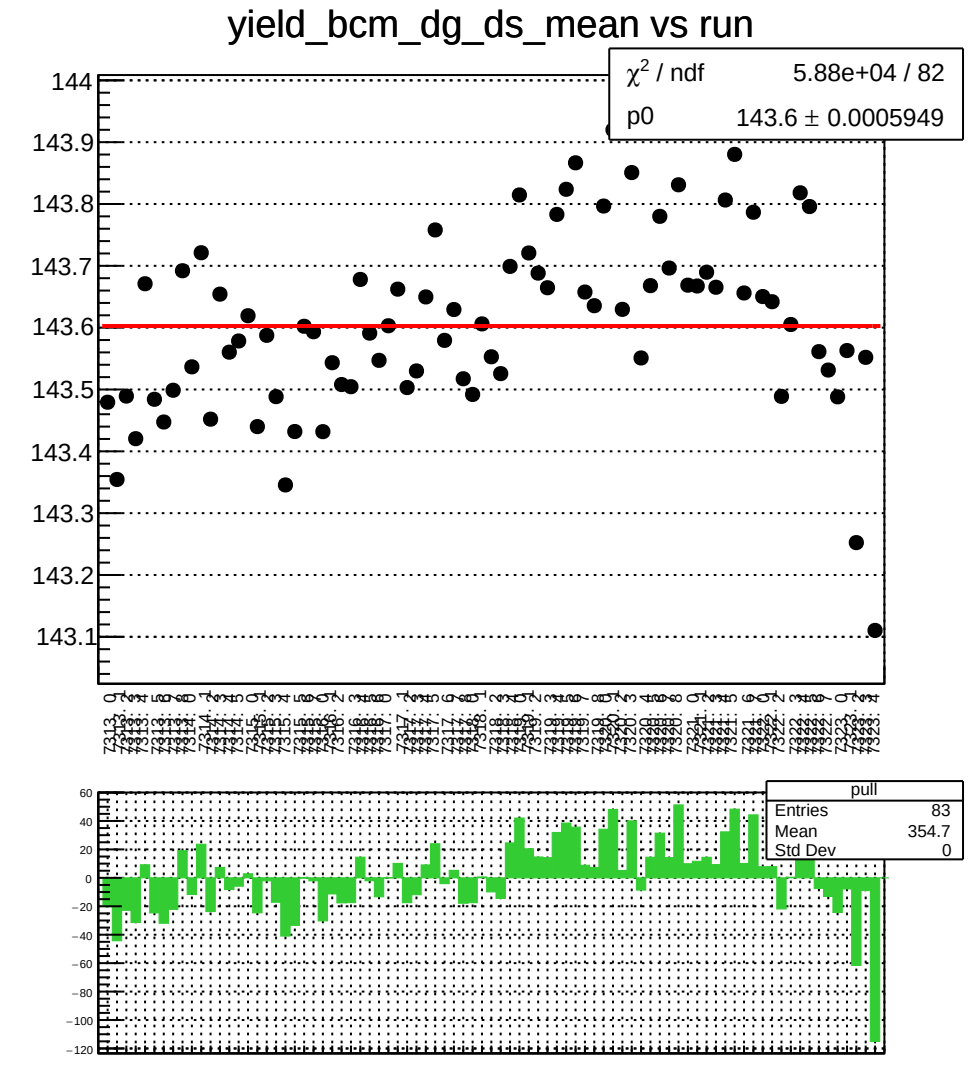

pull1D
Entries 83
Mean −0.3867
Std Dev 4.756
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

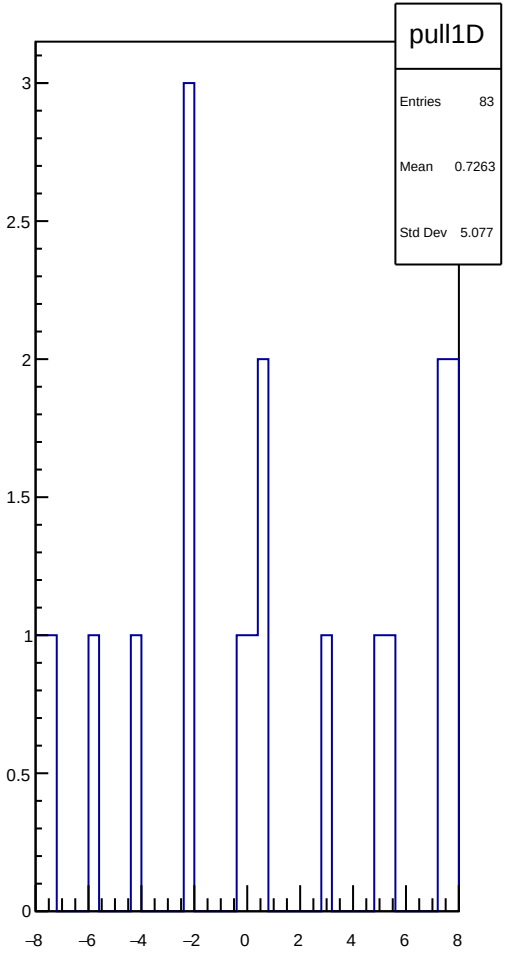

yield_bcm_an_us_rms vs run
χ² / ndf 1.911e+04 / 82
p0 0.5405 ± 0.0004283
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

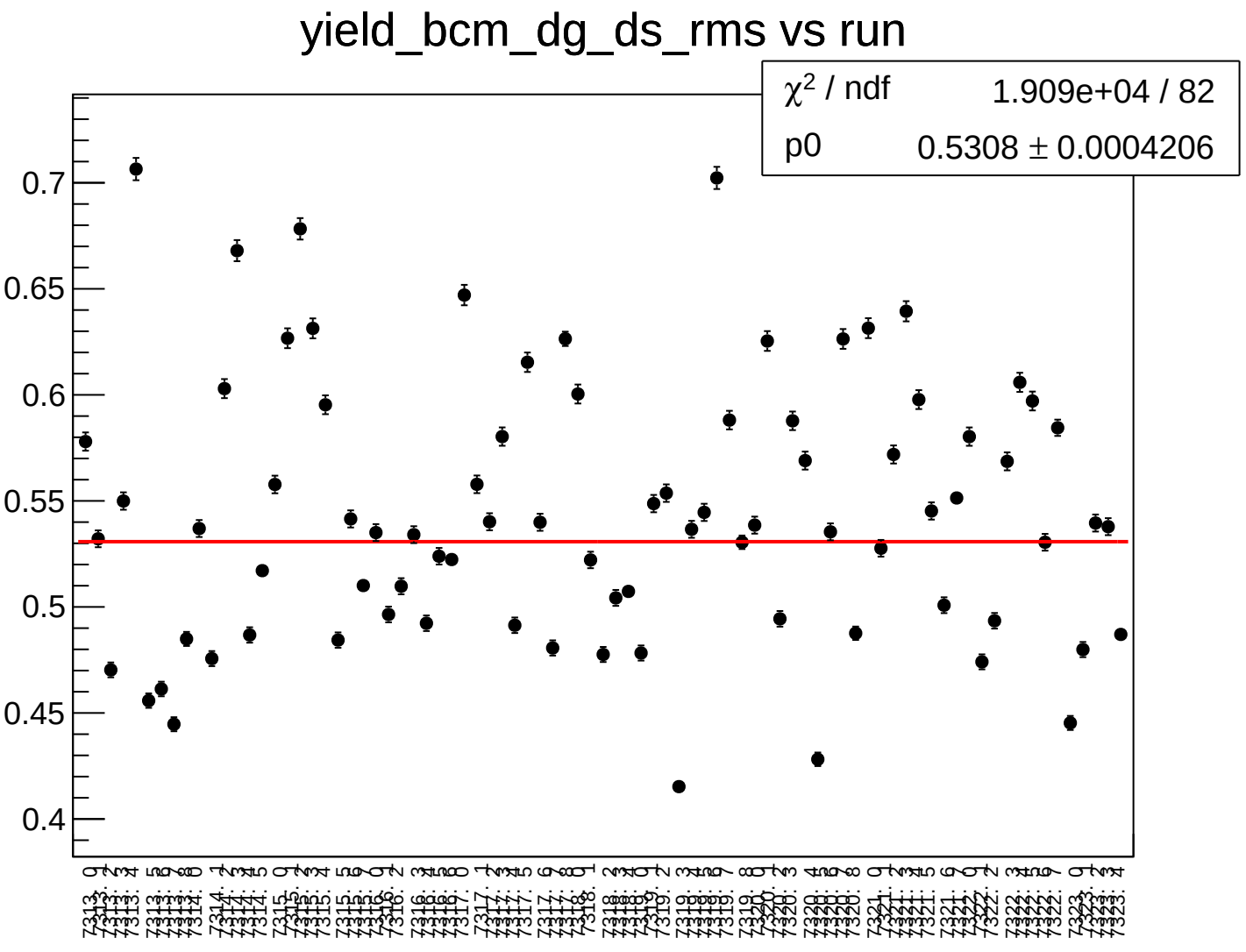

yield_bcm_dg_us_mean vs run
χ² / ndf 5.68e+04 / 82
p0 145 ± 0.0005908
145.3
145.2
145.1
145
144.9
144.8
144.7
144.6
144.5
pull
Entries 83
Mean 267.1
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

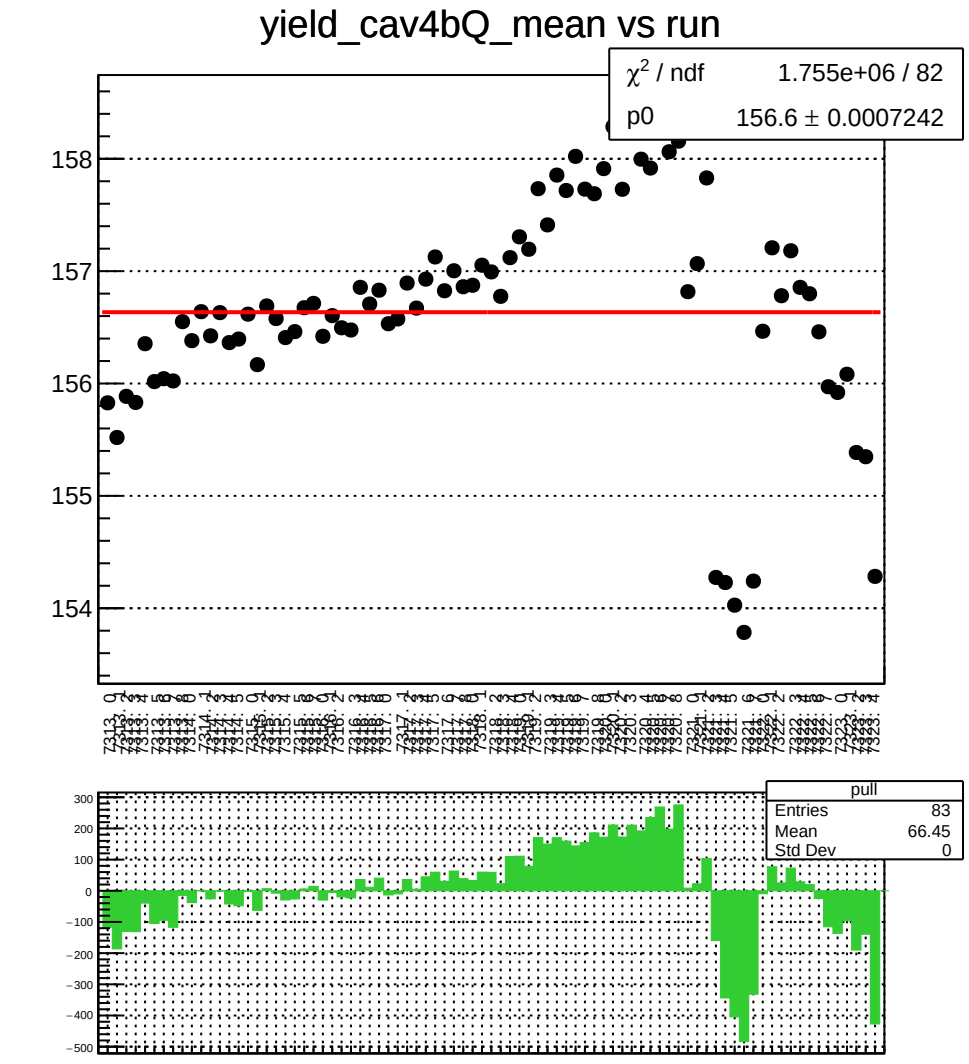

pull1D
Entries 83
Mean 0.7638
Std Dev 5.096
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

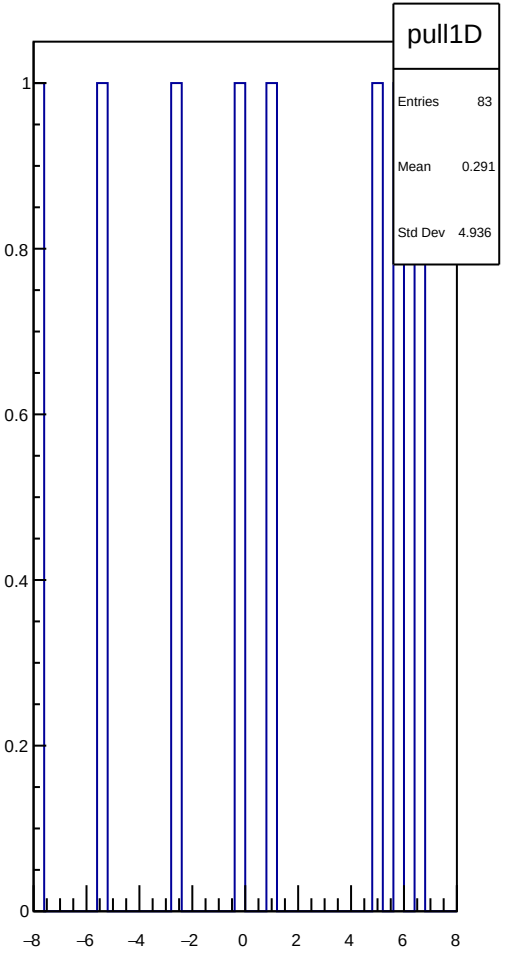

yield_bcm_dg_us_rms vs run
χ² / ndf 1.914e+04 / 82
p0 0.5272 ± 0.0004178
0.7
0.65
0.6
0.55
0.5
0.45
0.4

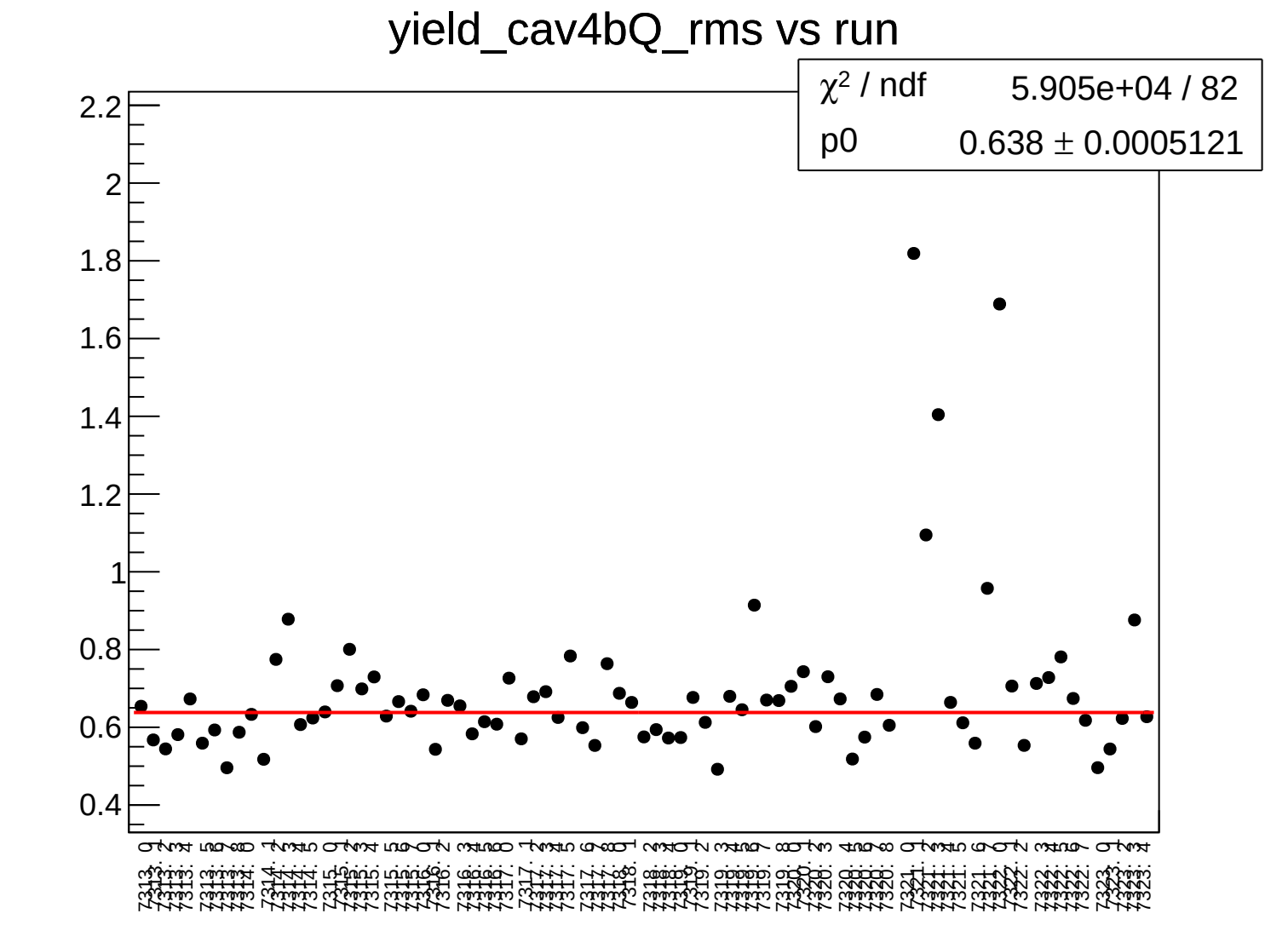

yield_bcm_dg_ds_mean vs run
χ² / ndf 5.88e+04 / 82
p0 143.6 ± 0.0005949
144
143.9
143.8
143.7
143.6
143.5
143.4
143.3
143.2
143.1
pull
Entries 83
Mean 354.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

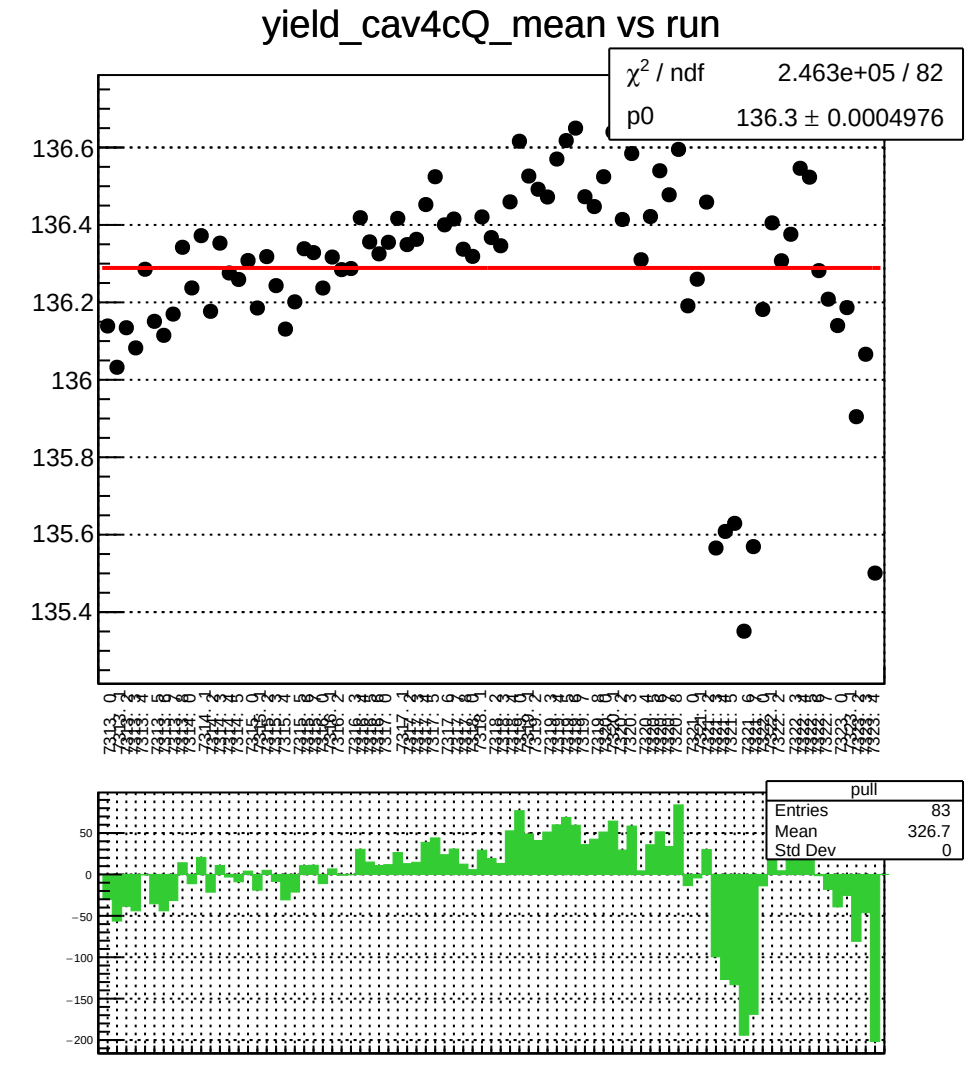

pull1D
Entries 83
Mean 0.7263
Std Dev 5.077
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

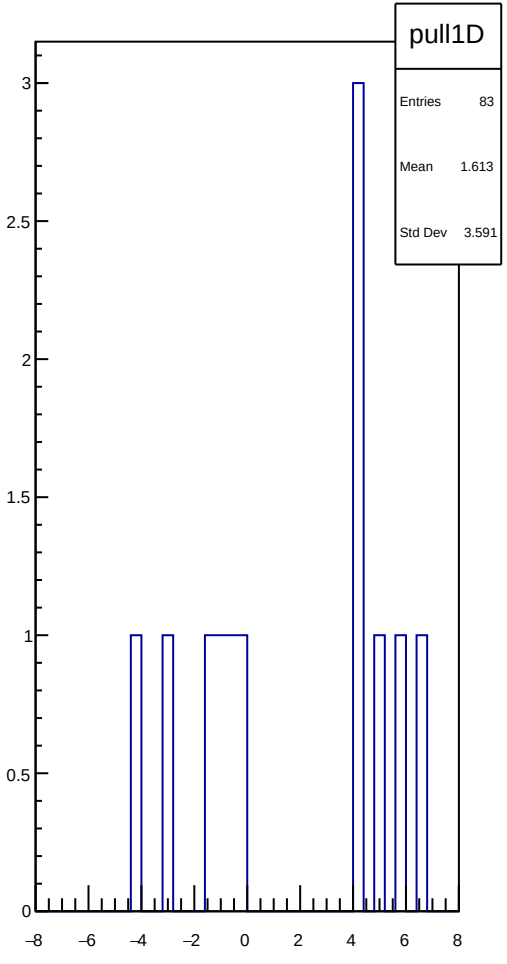

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.909e+04 / 82
p0 0.5308 ± 0.0004206
0.7
0.65
0.6
0.55
0.5
0.45
0.4

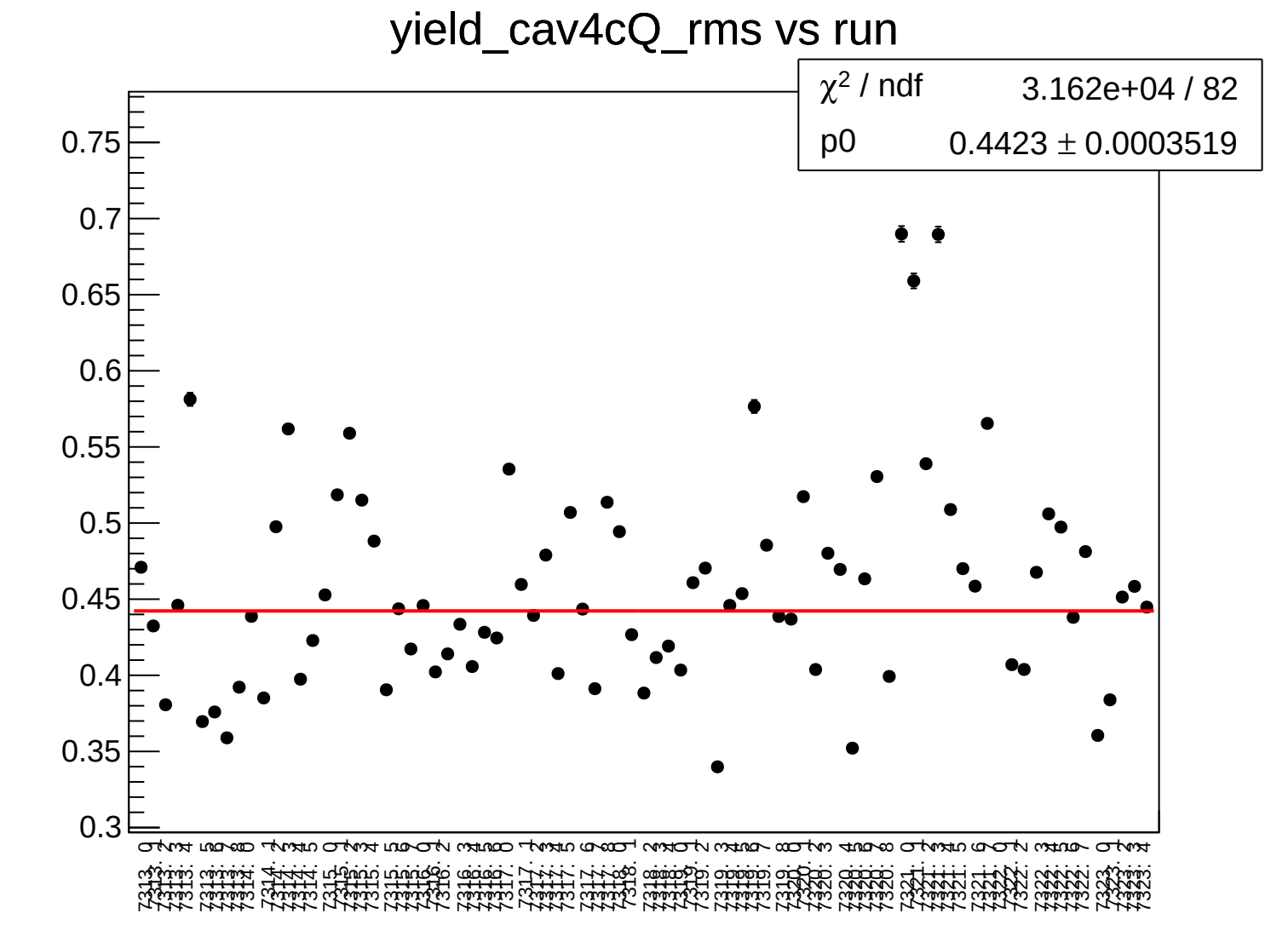

yield_cav4bQ_mean vs run
χ² / ndf 1.755e+06 / 82
p0 156.6 ± 0.0007242
158
157
156
155
154
pull
Entries 83
Mean 66.45
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

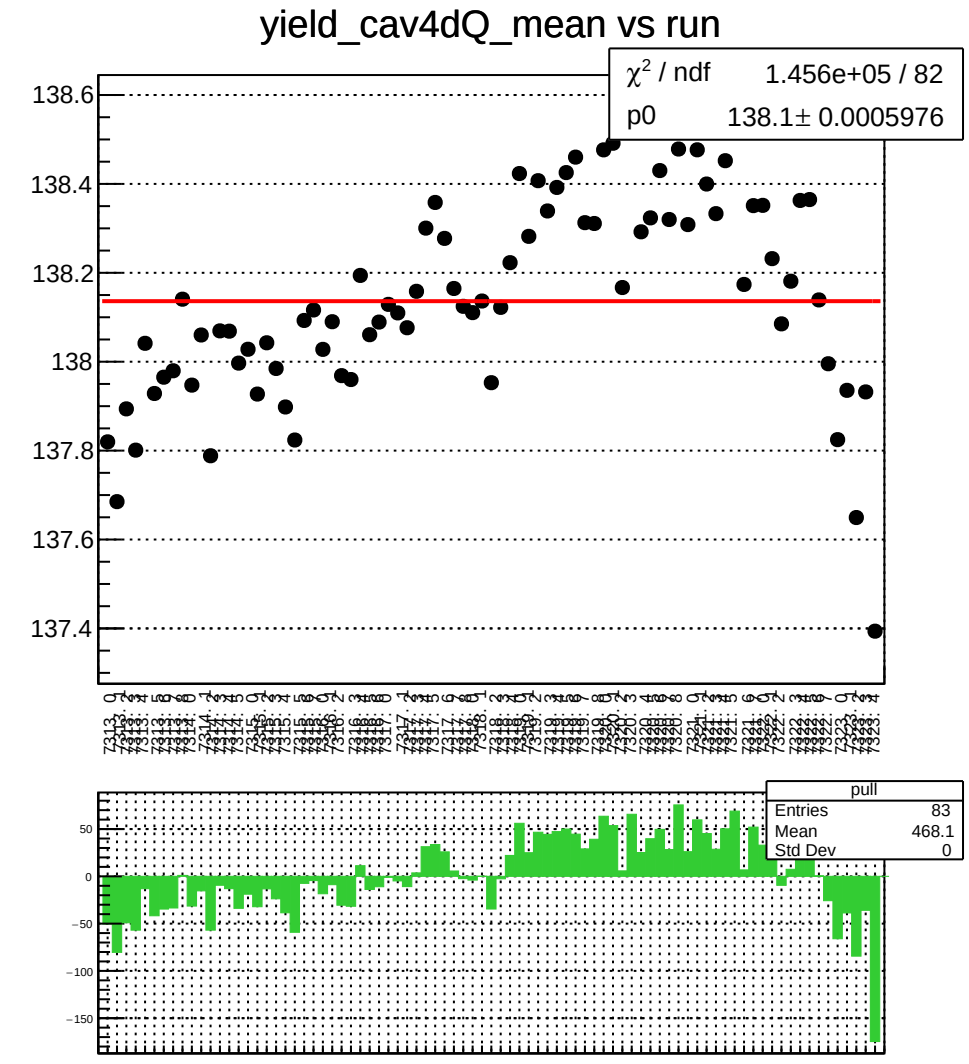

pull1D
Entries 83
Mean 0.291
Std Dev 4.936
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

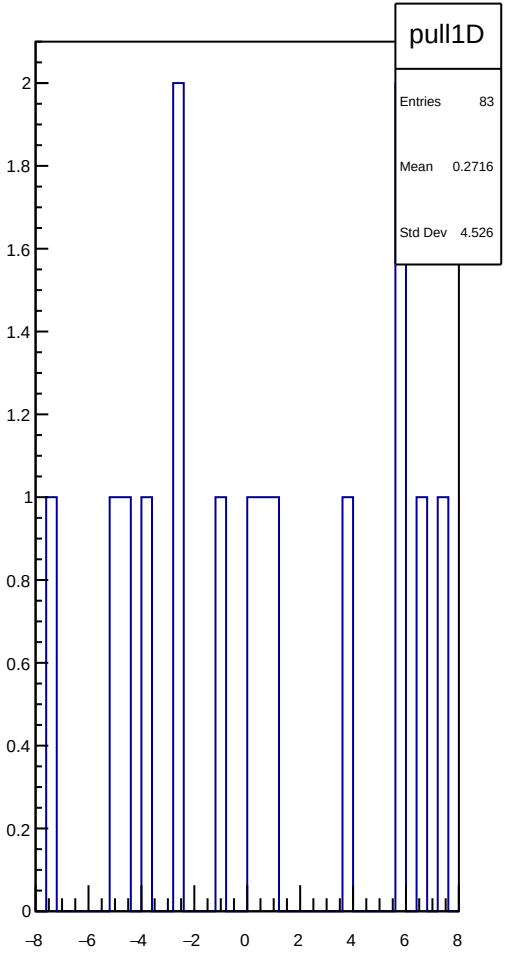

yield_cav4bQ_rms vs run
χ² / ndf 5.905e+04 / 82
p0 0.638 ± 0.0005121
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

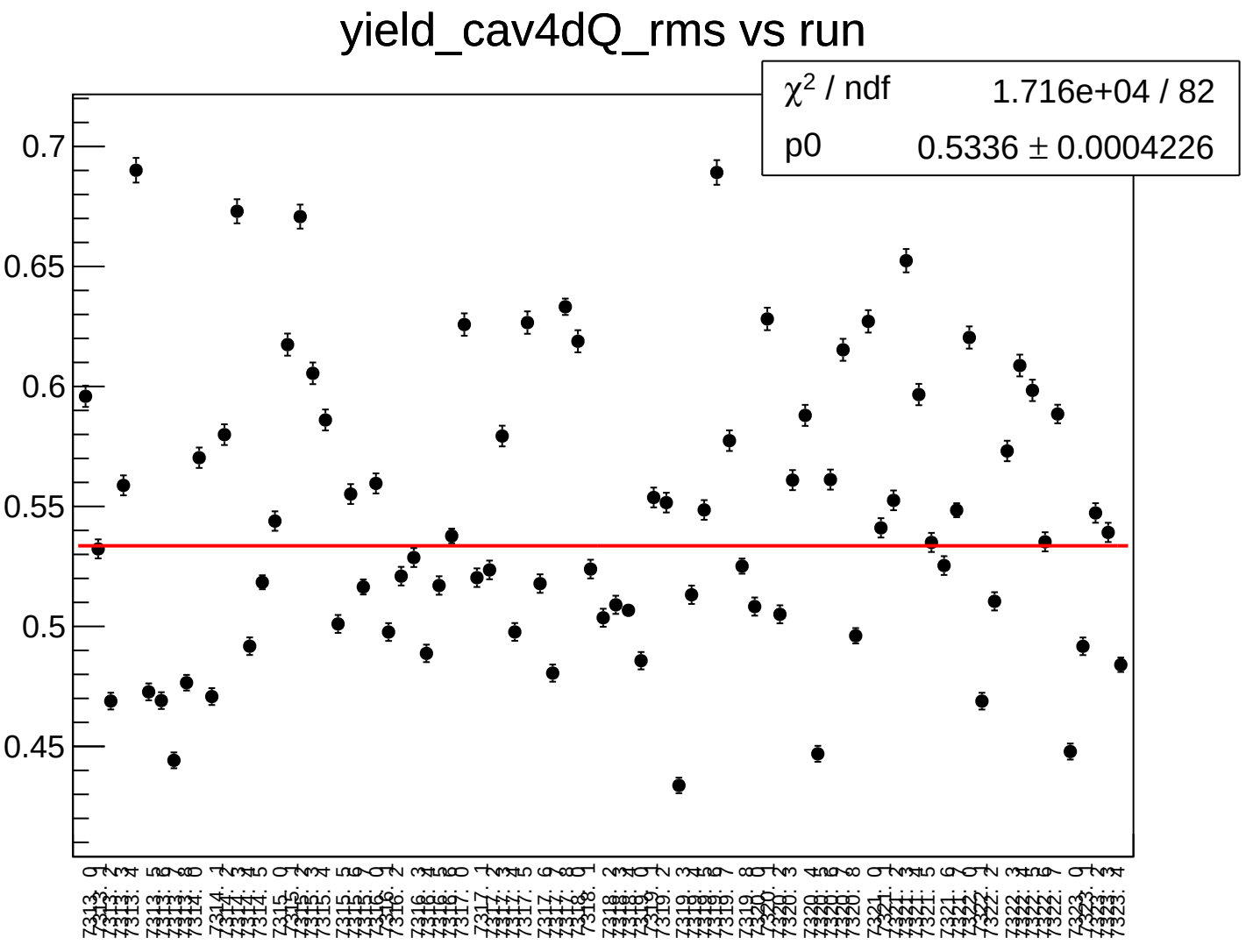

yield_cav4cQ_mean vs run
χ² / ndf 2.463e+05 / 82
p0 136.3 ± 0.0004976
136.6
136.4
136.2
136
135.8
135.6
135.4
pull
Entries 83
Mean 326.7
Std Dev 0
50
0
−50
−100
−150
−200

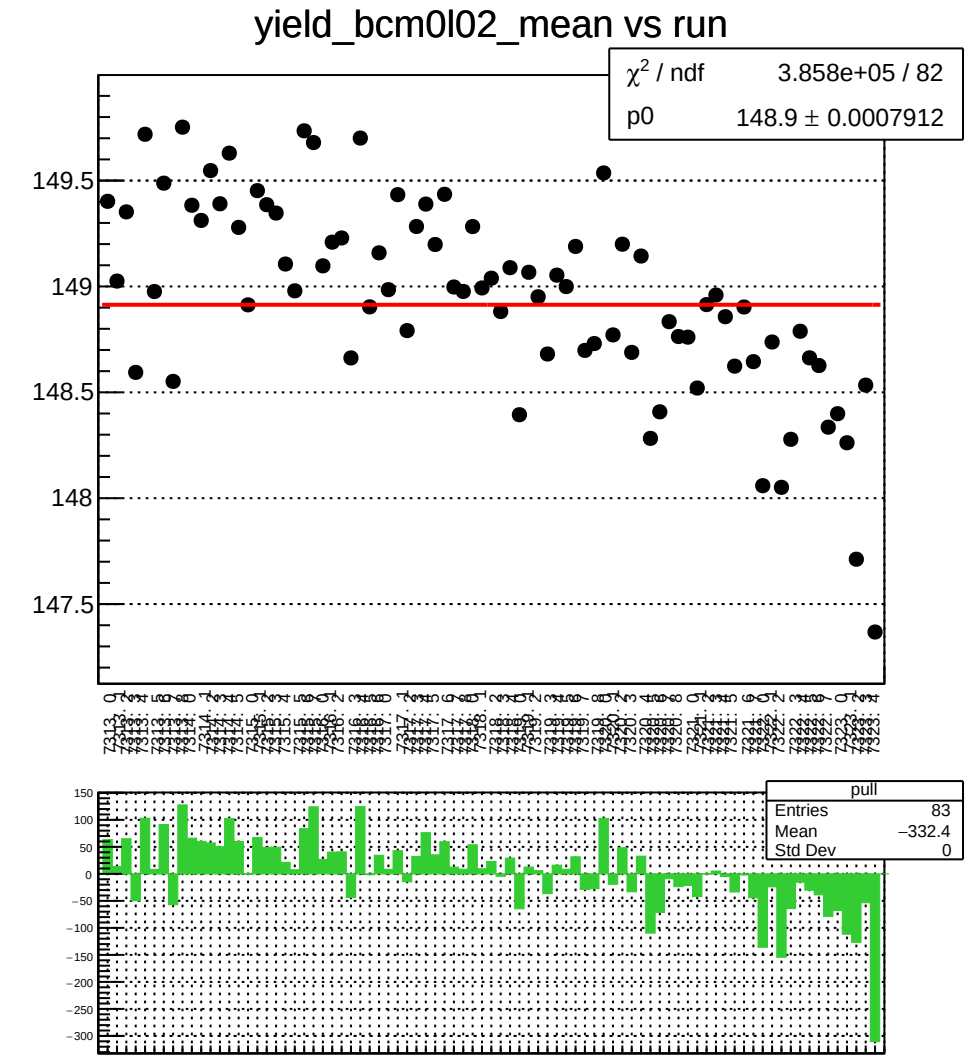

pull1D
Entries 83
Mean 1.613
Std Dev 3.591
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

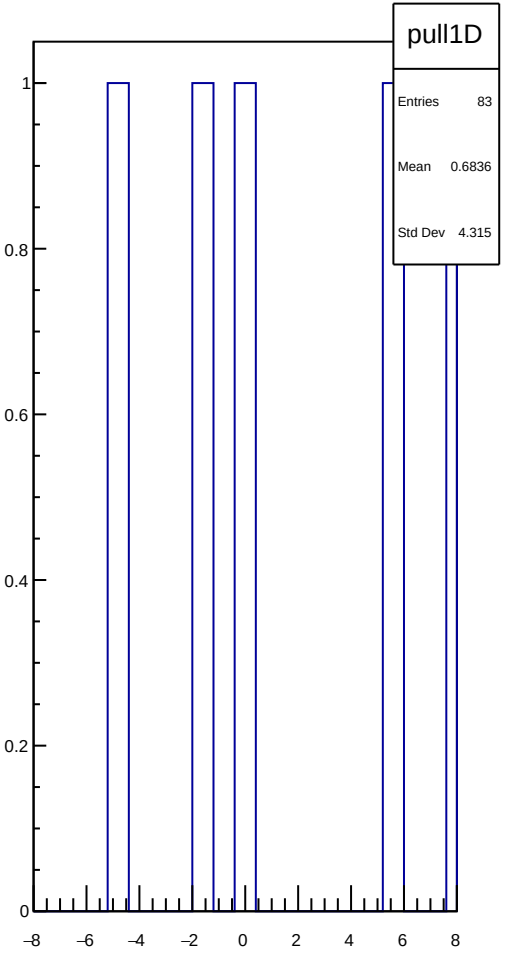

yield_cav4cQ_rms vs run
χ² / ndf 3.162e+04 / 82
p0 0.4423 ± 0.0003519
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

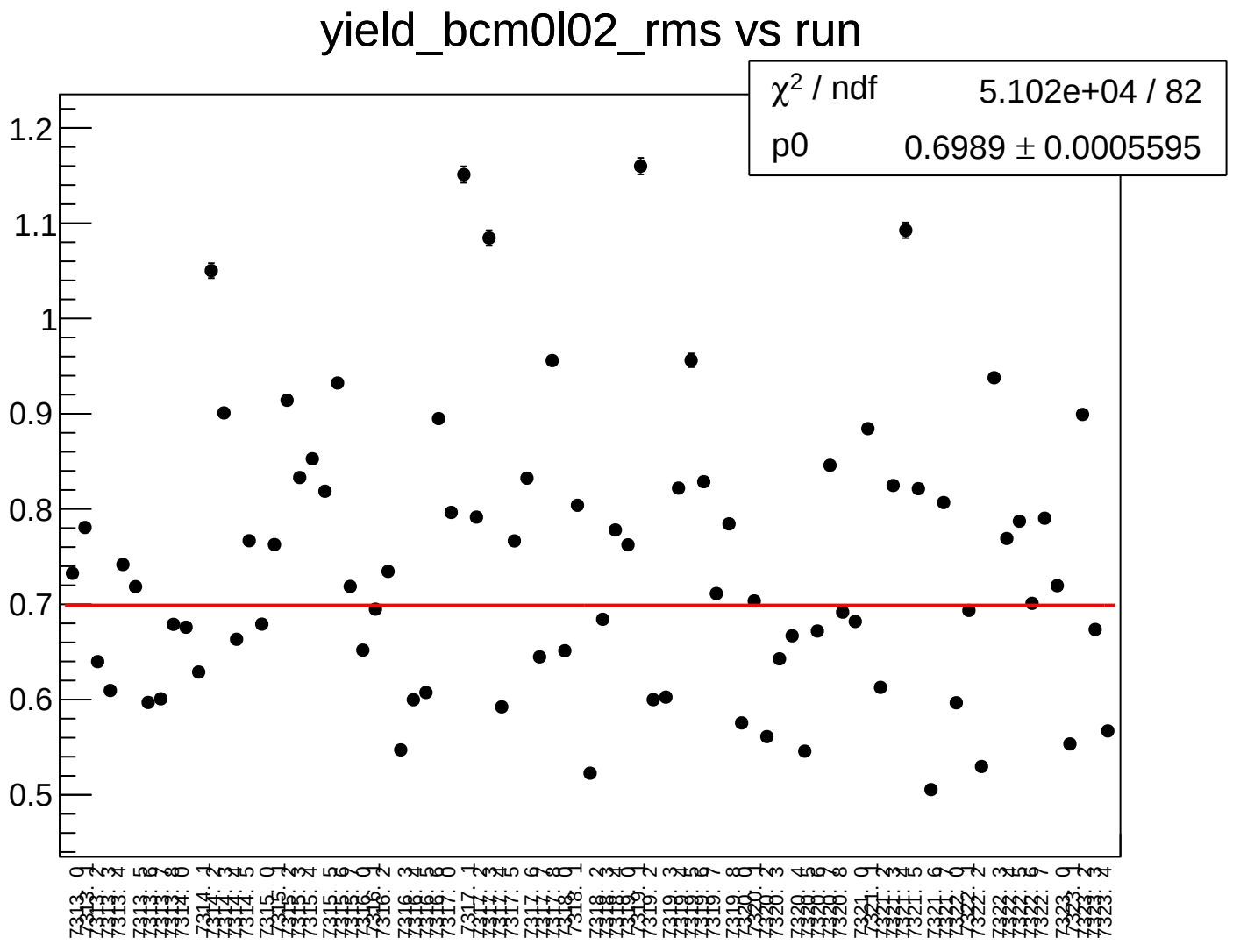

yield_cav4dQ_mean vs run
χ² / ndf 1.456e+05 / 82
p0 138.1± 0.0005976
138.6
138.4
138.2
138
137.8
137.6
137.4
pull
Entries 83
Mean 468.1
Std Dev 0
50
0
−50
−100
−150

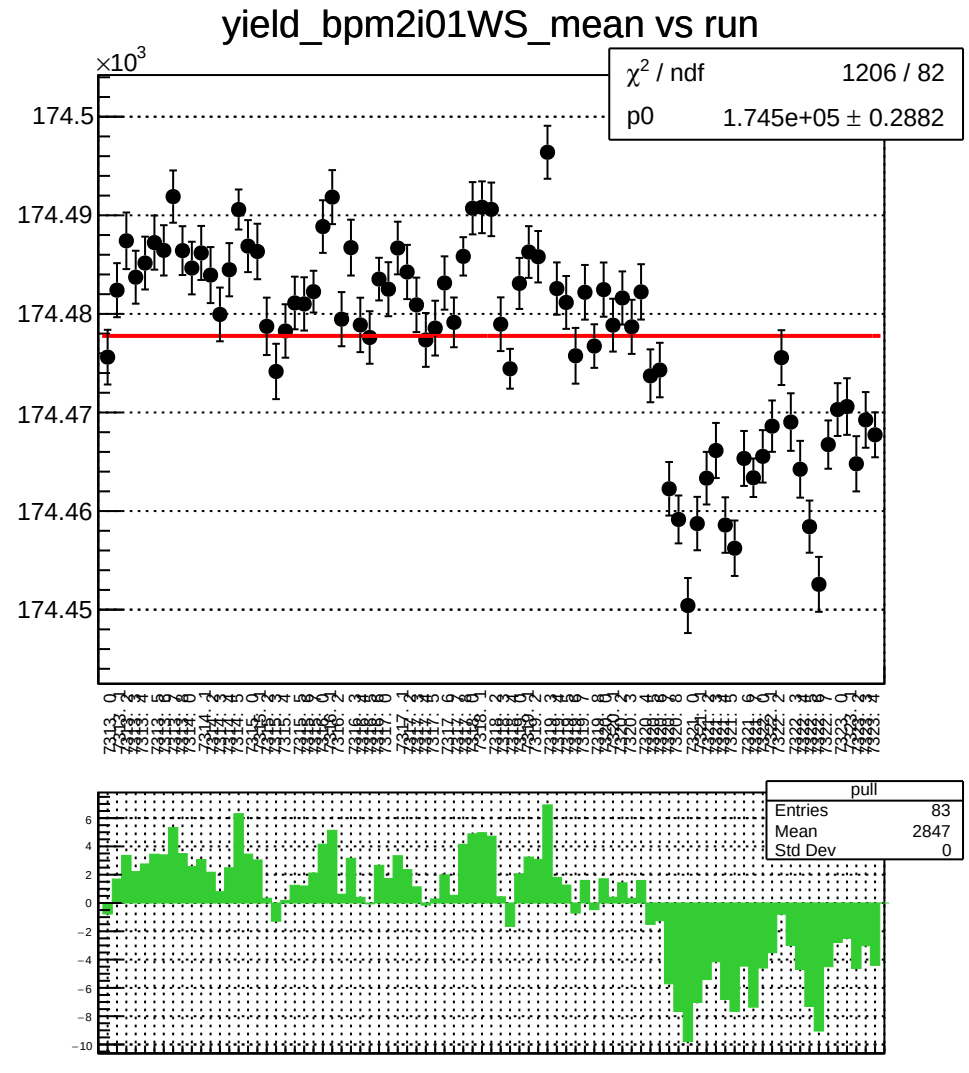

pull1D
Entries 83
Mean 0.2716
Std Dev 4.526
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

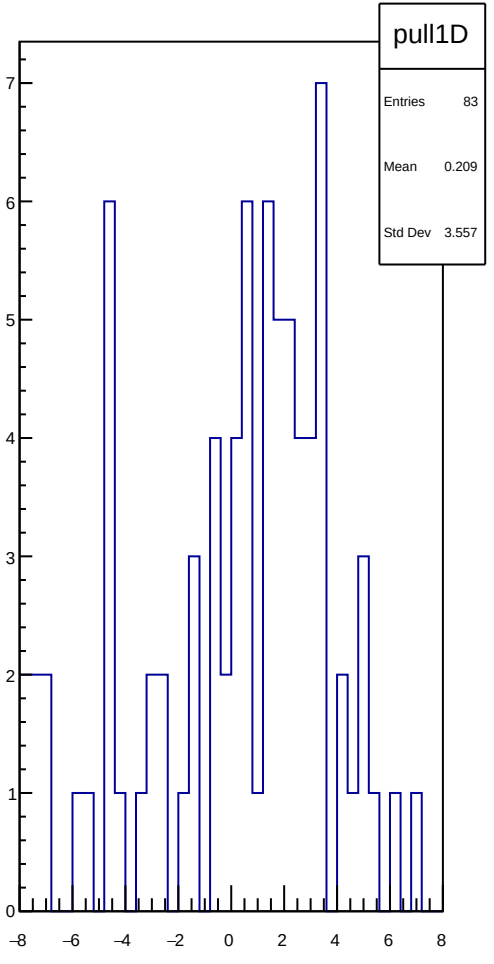

yield_cav4dQ_rms vs run
χ² / ndf 1.716e+04 / 82
p0 0.5336 ± 0.0004226
0.7
0.65
0.6
0.55
0.5
0.45

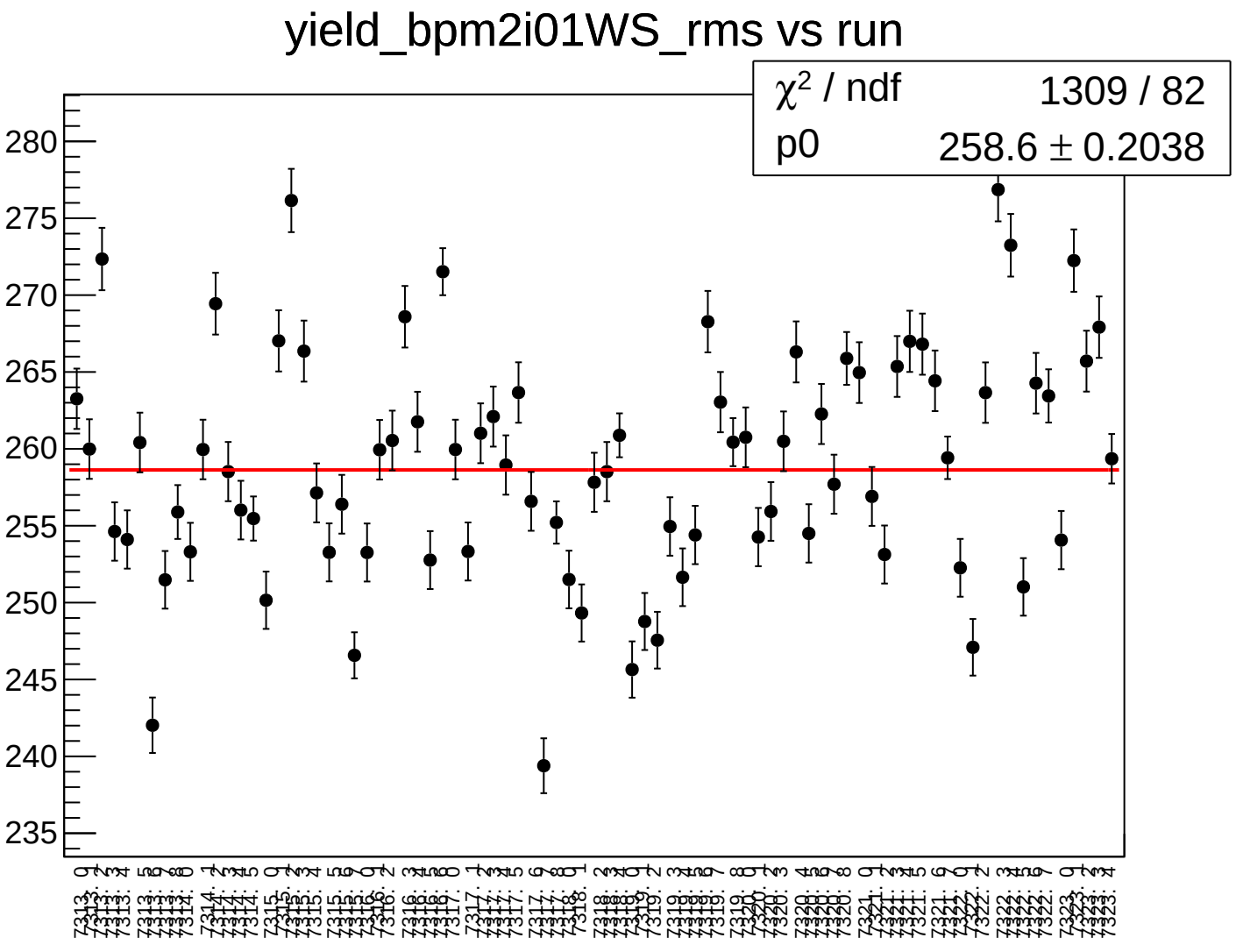

yield_bcm0l02_mean vs run
χ² / ndf 3.858e+05 / 82
p0 148.9 ± 0.0007912
149.5
149
148.5
148
147.5
pull
Entries 83
Mean −332.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

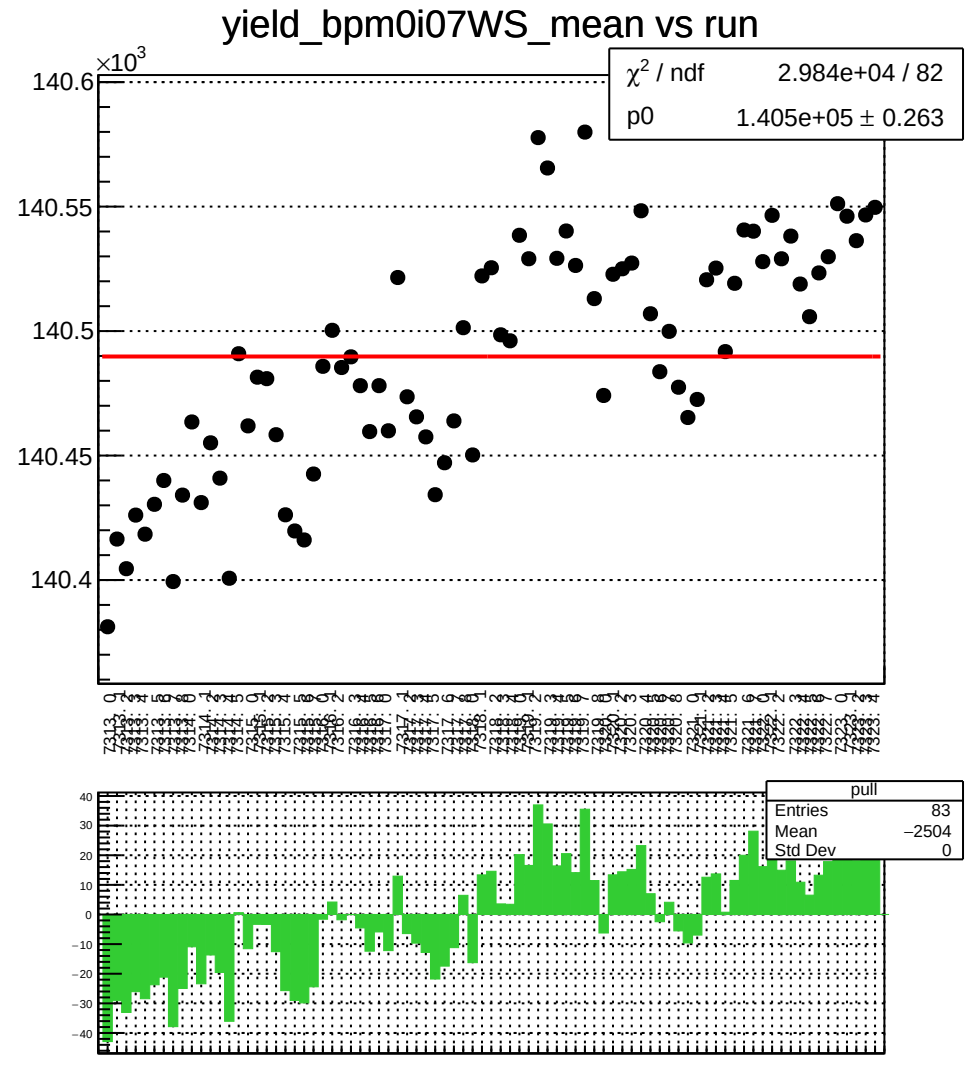

pull1D
Entries 83
Mean 0.6836
Std Dev 4.315
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

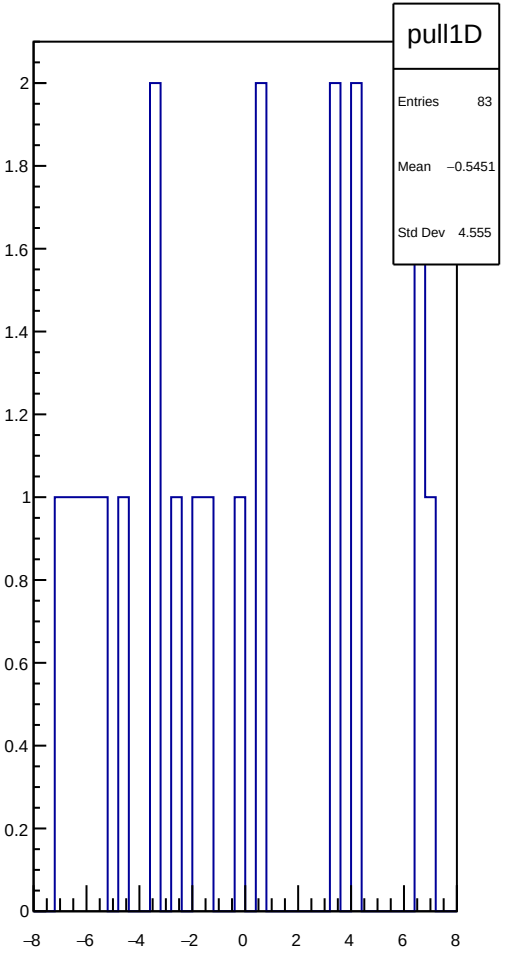

yield_bcm0l02_rms vs run
χ² / ndf 5.102e+04 / 82
p0 0.6989 ± 0.0005595
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

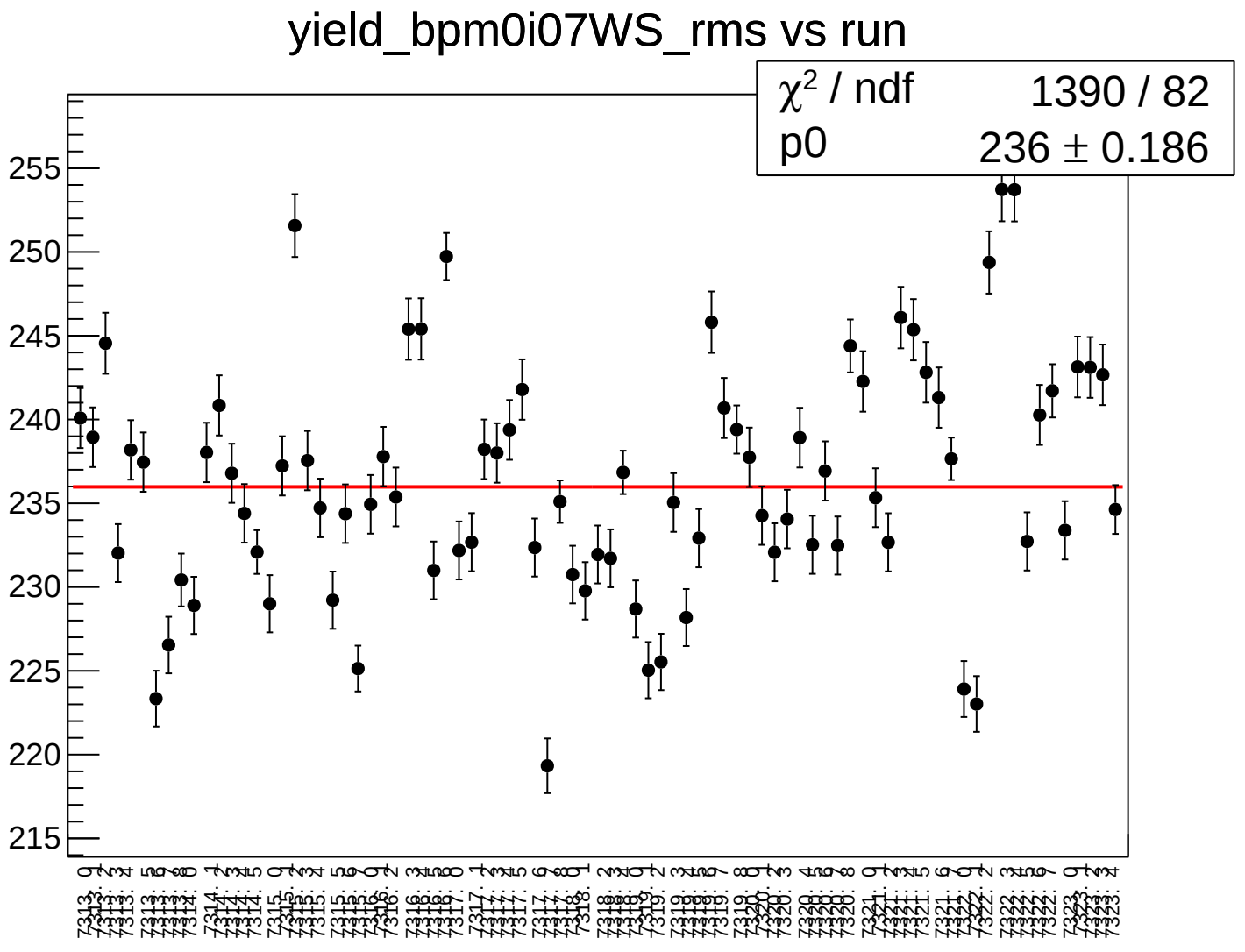

yield_bpm2i01WS_mean vs run
×10^3
174.5
174.49
174.48
174.47
174.46
174.45
χ² / ndf 1206 / 82
p0 1.745e+05 ± 0.2882
pull
Entries 83
Mean 2847
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

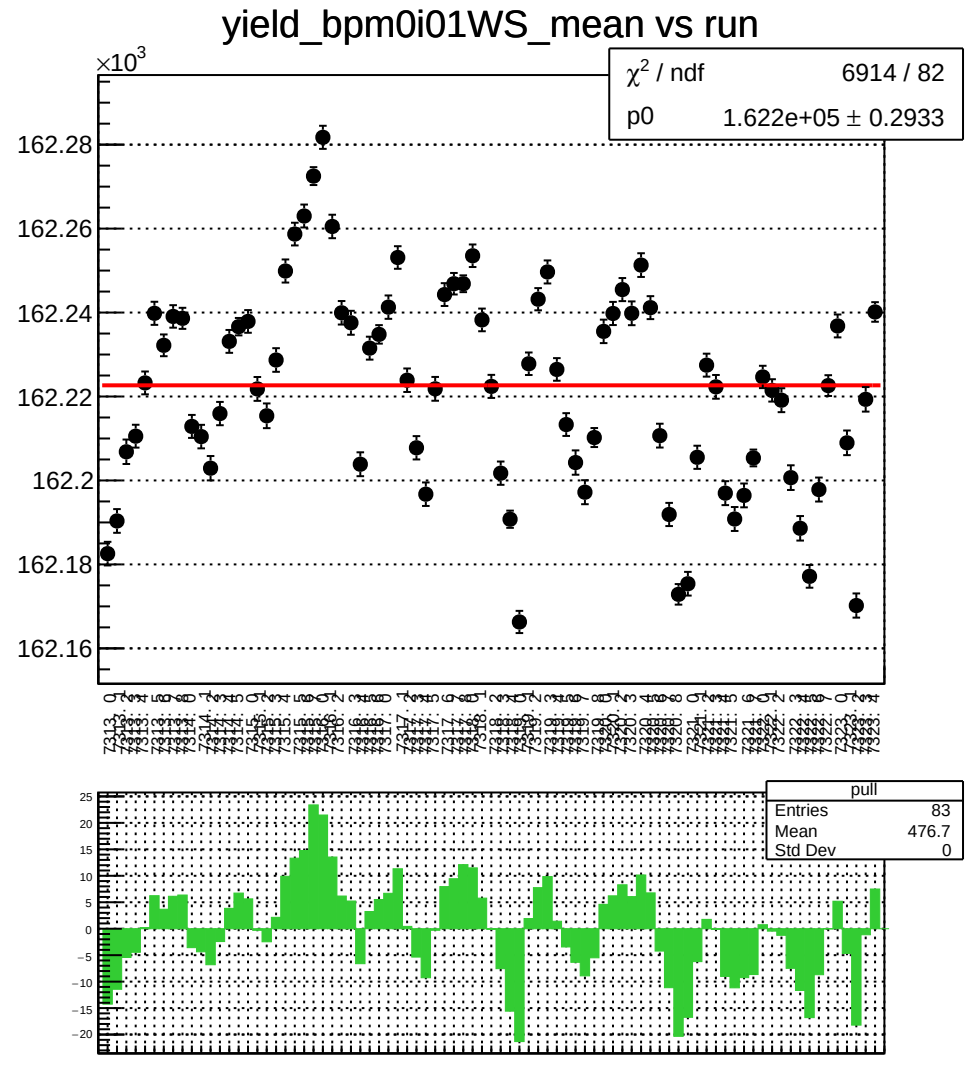

pull1D
Entries 83
Mean 0.209
Std Dev 3.557
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

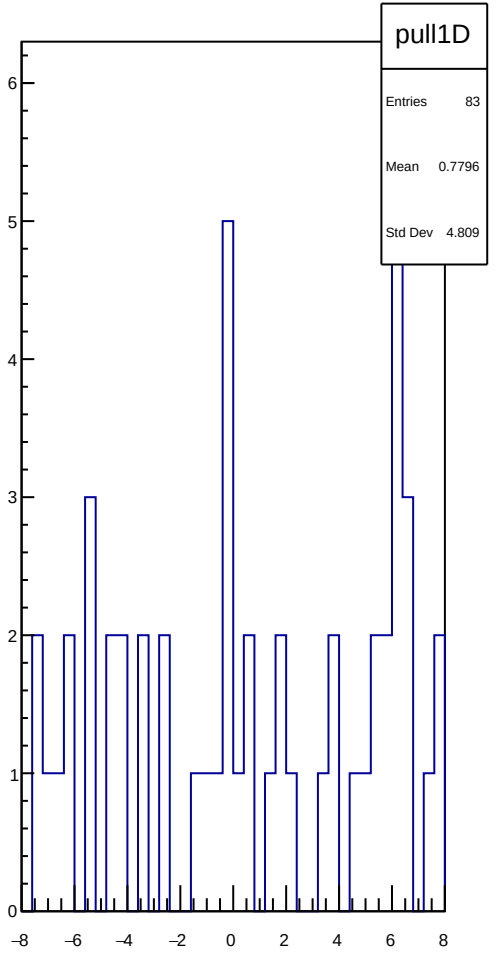

yield_bpm2i01WS_rms vs run
χ² / ndf 1309 / 82
p0 258.6 ± 0.2038
280
275
270
265
260
255
250
245
240
235

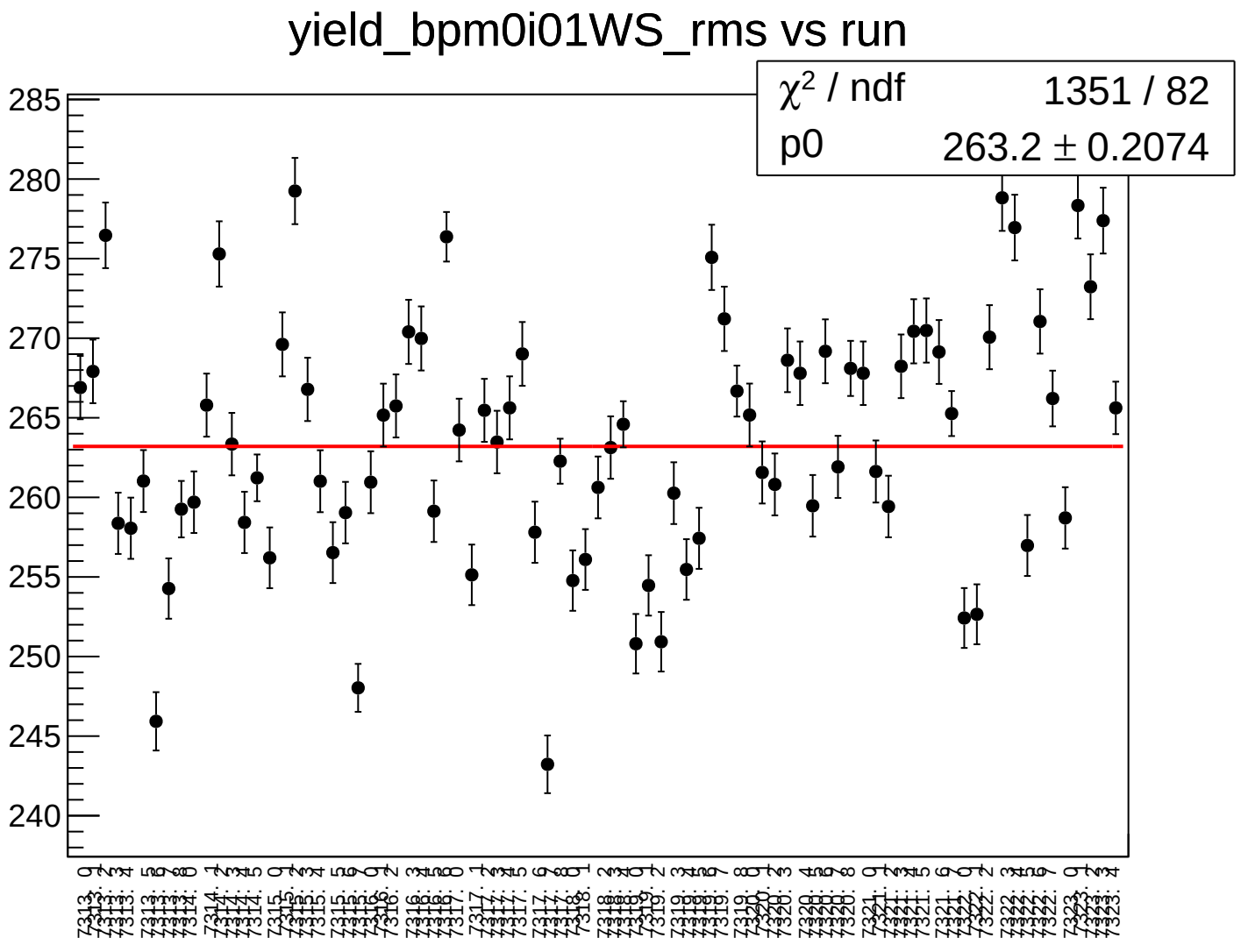

yield_bpm0i07WS_mean vs run
×10^3
140.6
140.55
140.5
140.45
140.4
χ² / ndf 2.984e+04 / 82
p0 1.405e+05 ± 0.263
pull
Entries 83
Mean −2504
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

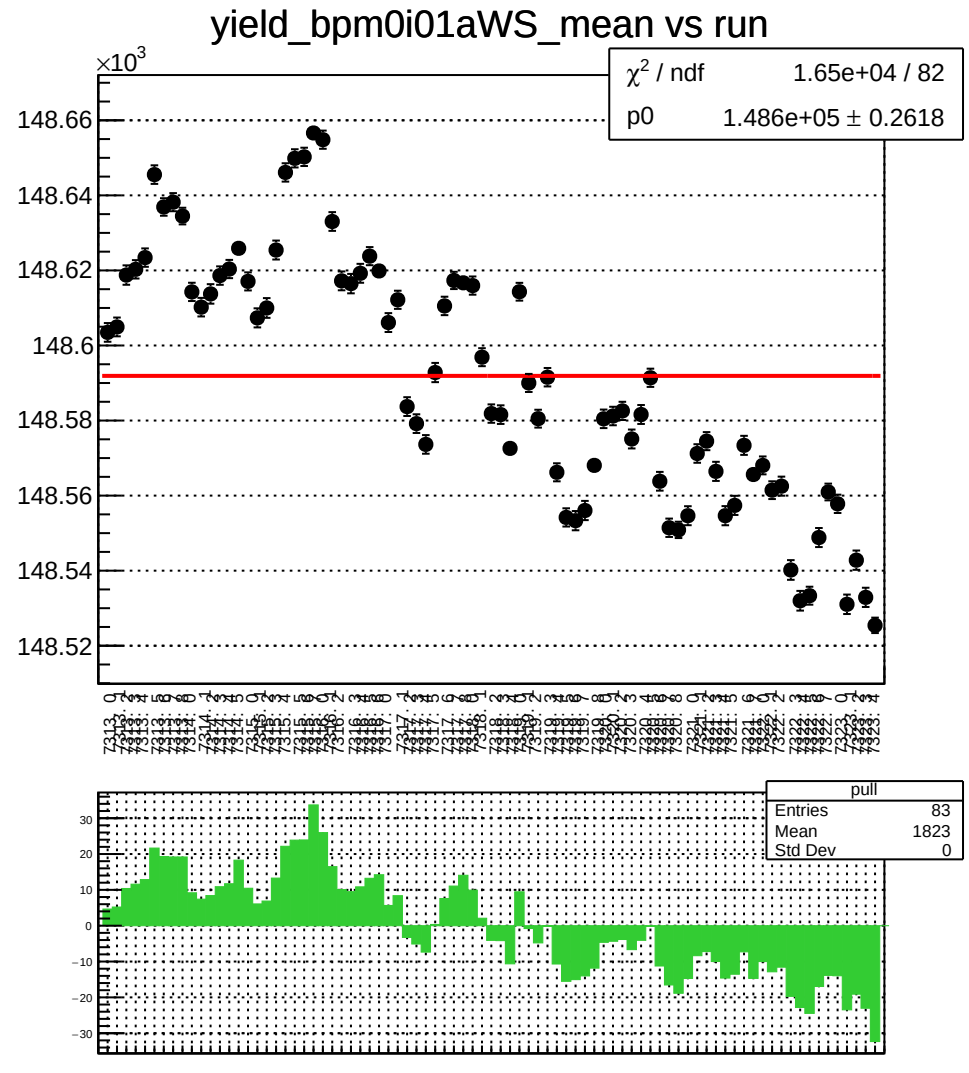

pull1D
Entries 83
Mean −0.5451
Std Dev 4.555
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

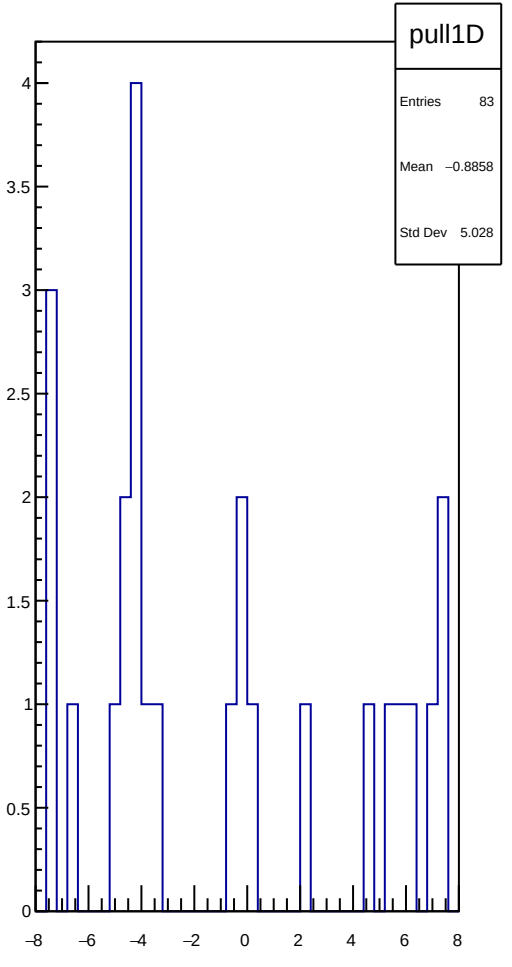

yield_bpm0i07WS_rms vs run
χ² / ndf 1390 / 82
p0 236 ± 0.186
255
250
245
240
235
230
225
220
215

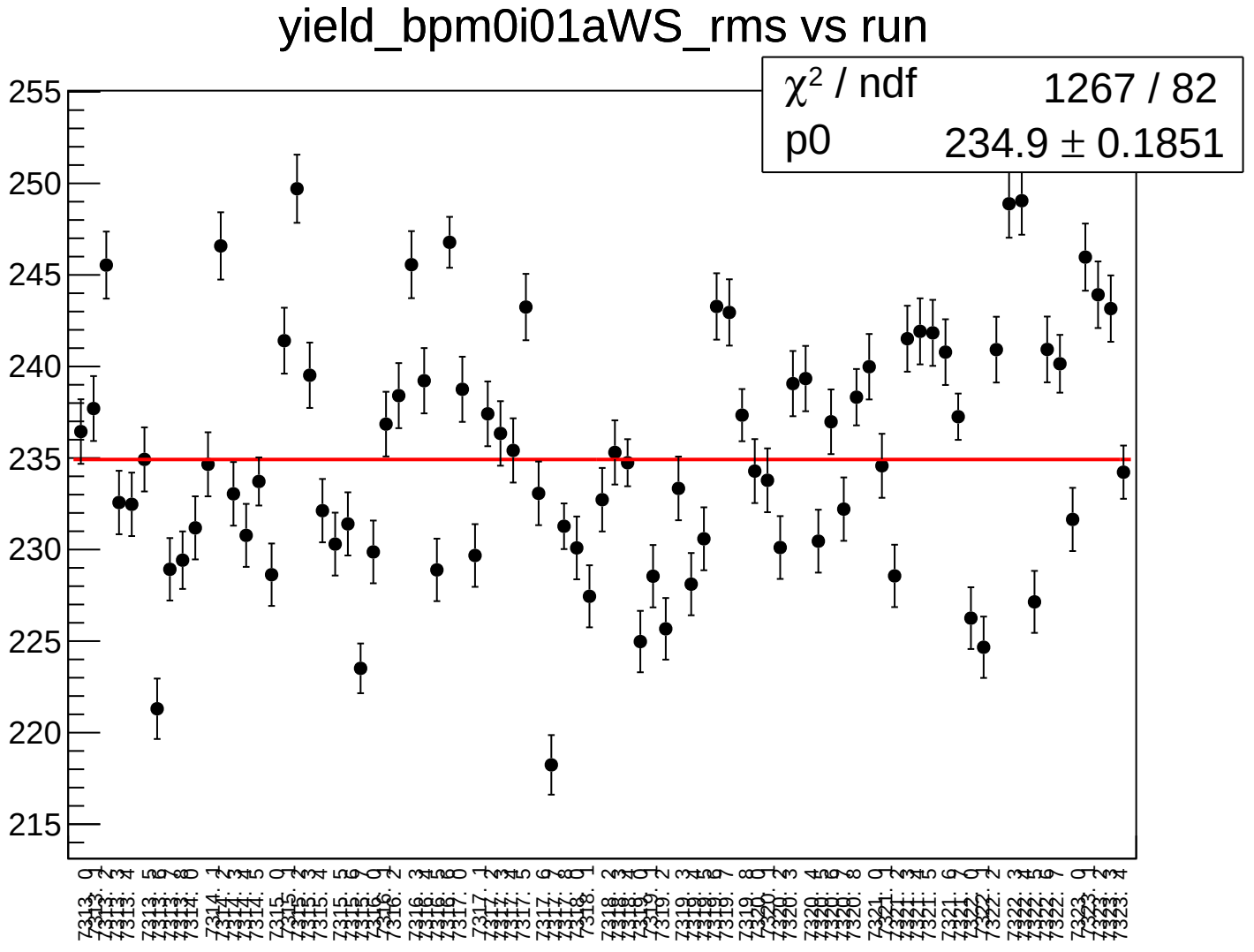

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 6914 / 82
p0 1.622e+05 ± 0.2933
162.28
162.26
162.24
162.22
162.2
162.18
162.16
pull
Entries 83
Mean 476.7
Std Dev 0
25
20
15
10
5
0
−5
−10
−15
−20

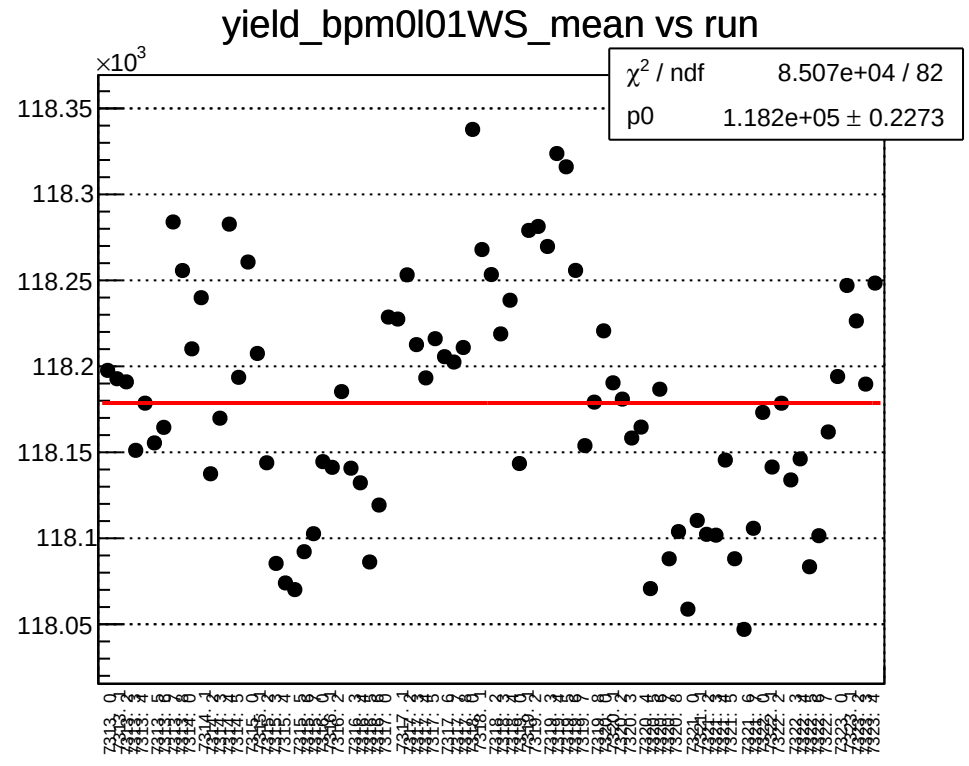

pull1D
Entries 83
Mean 0.7796
Std Dev 4.809
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

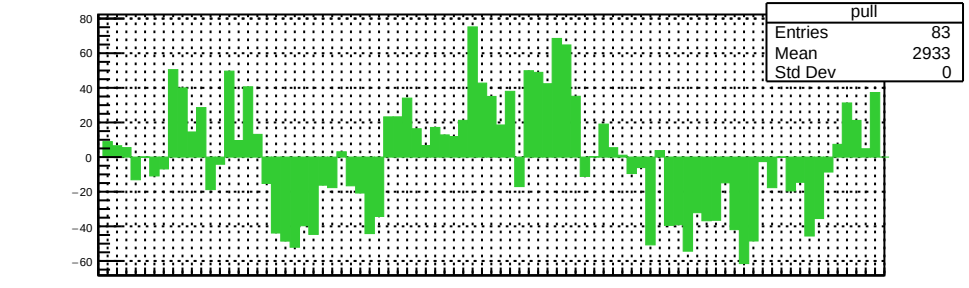

yield_bpm0i01WS_rms vs run
χ² / ndf 1351 / 82
p0 263.2 ± 0.2074
285
280
275
270
265
260
255
250
245
240

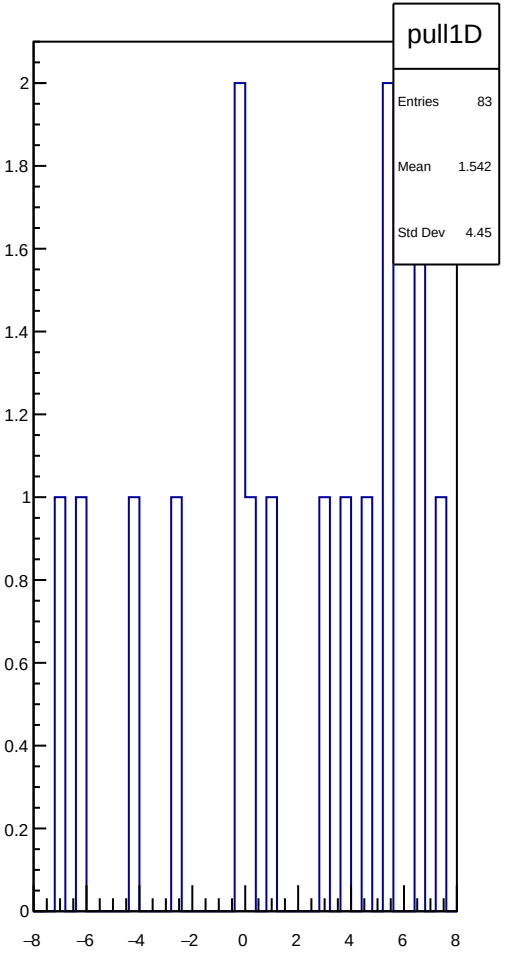

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.65e+04 / 82
p0 1.486e+05 ± 0.2618
148.66
148.64
148.62
148.6
148.58
148.56
148.54
148.52
pull
Entries 83
Mean 1823
Std Dev 0
30
20
10
0
−10
−20
−30

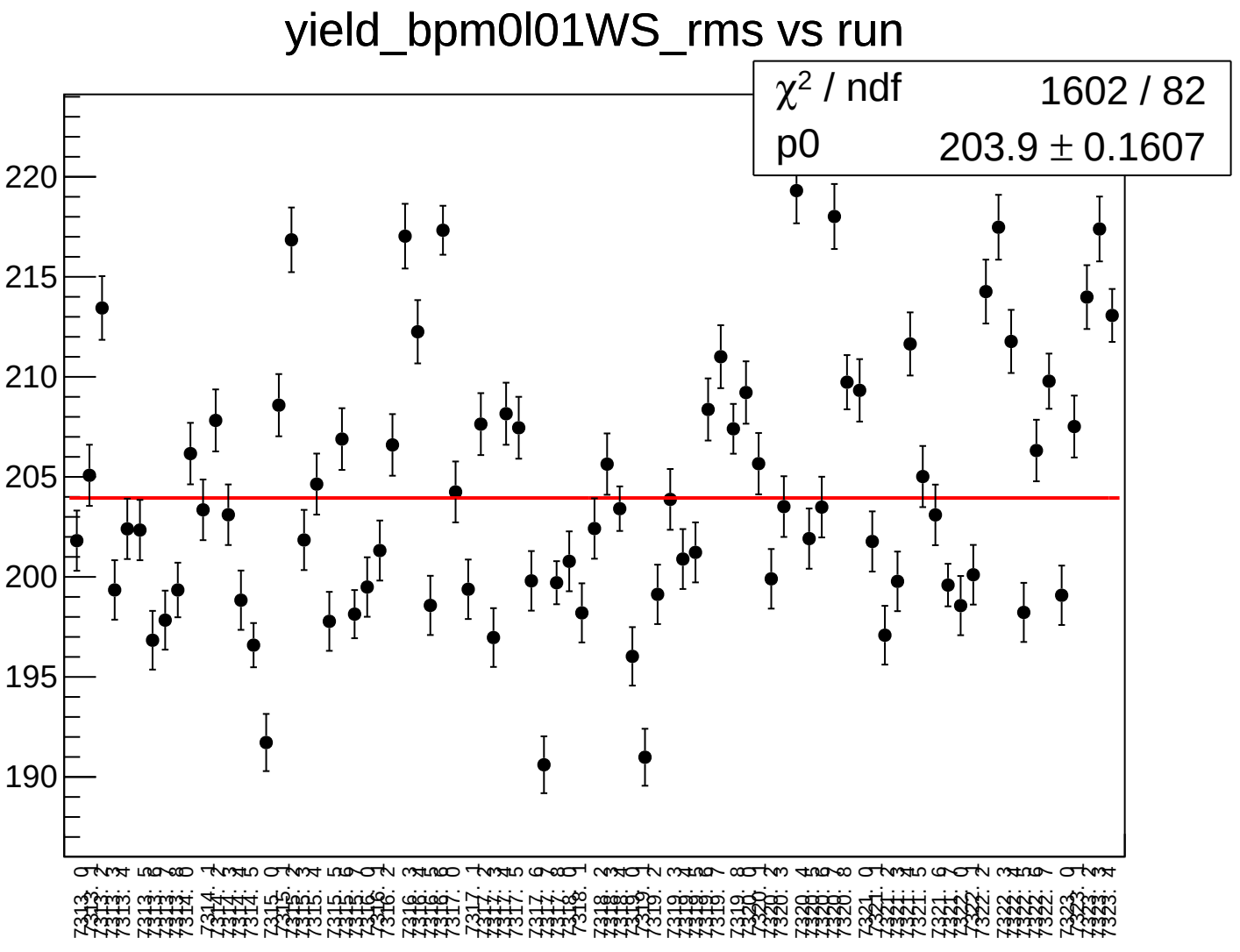

pull1D
Entries 83
Mean −0.8858
Std Dev 5.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

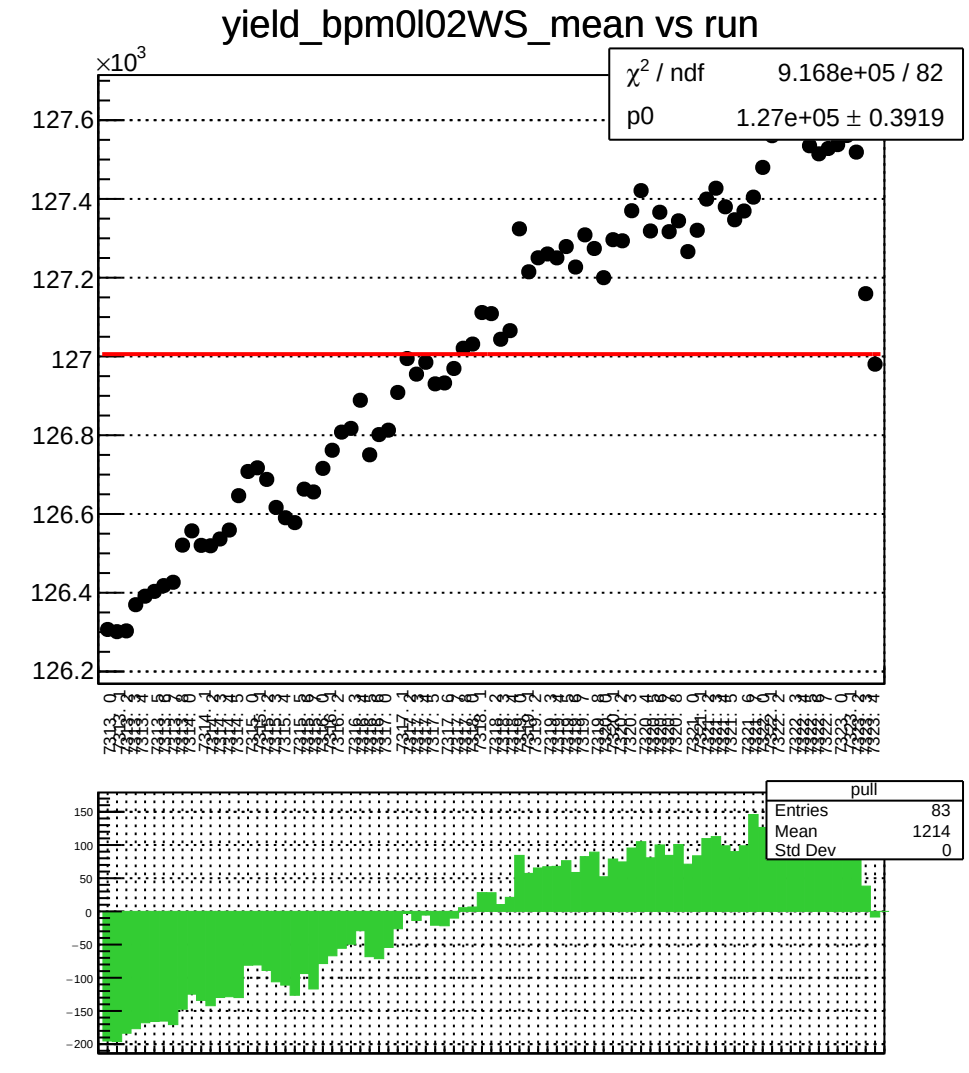

yield_bpm0i01aWS_rms vs run
χ² / ndf 1267 / 82
p0 234.9 ± 0.1851
255
250
245
240
235
230
225
220
215

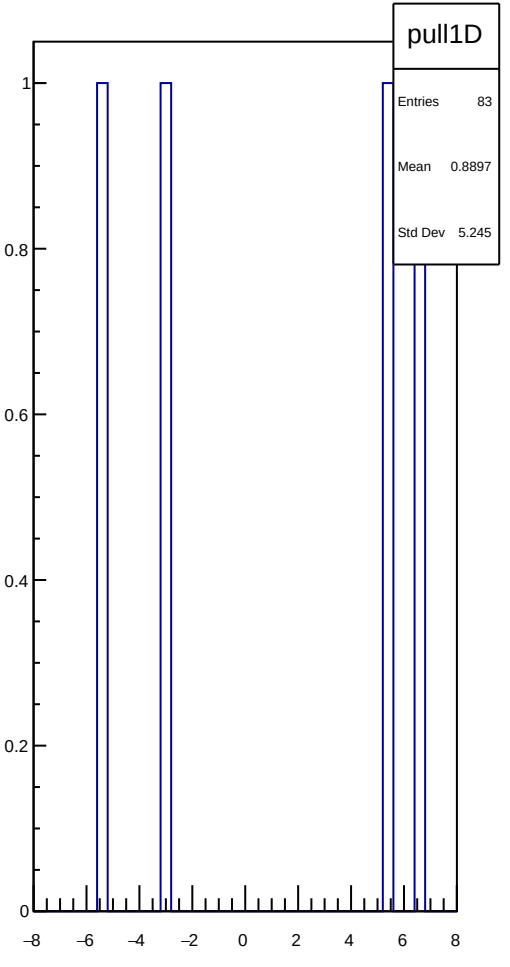

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.507e+04 / 82
p0 1.182e+05 ± 0.2273
118.35
118.3
118.25
118.2
118.15
118.1
118.05

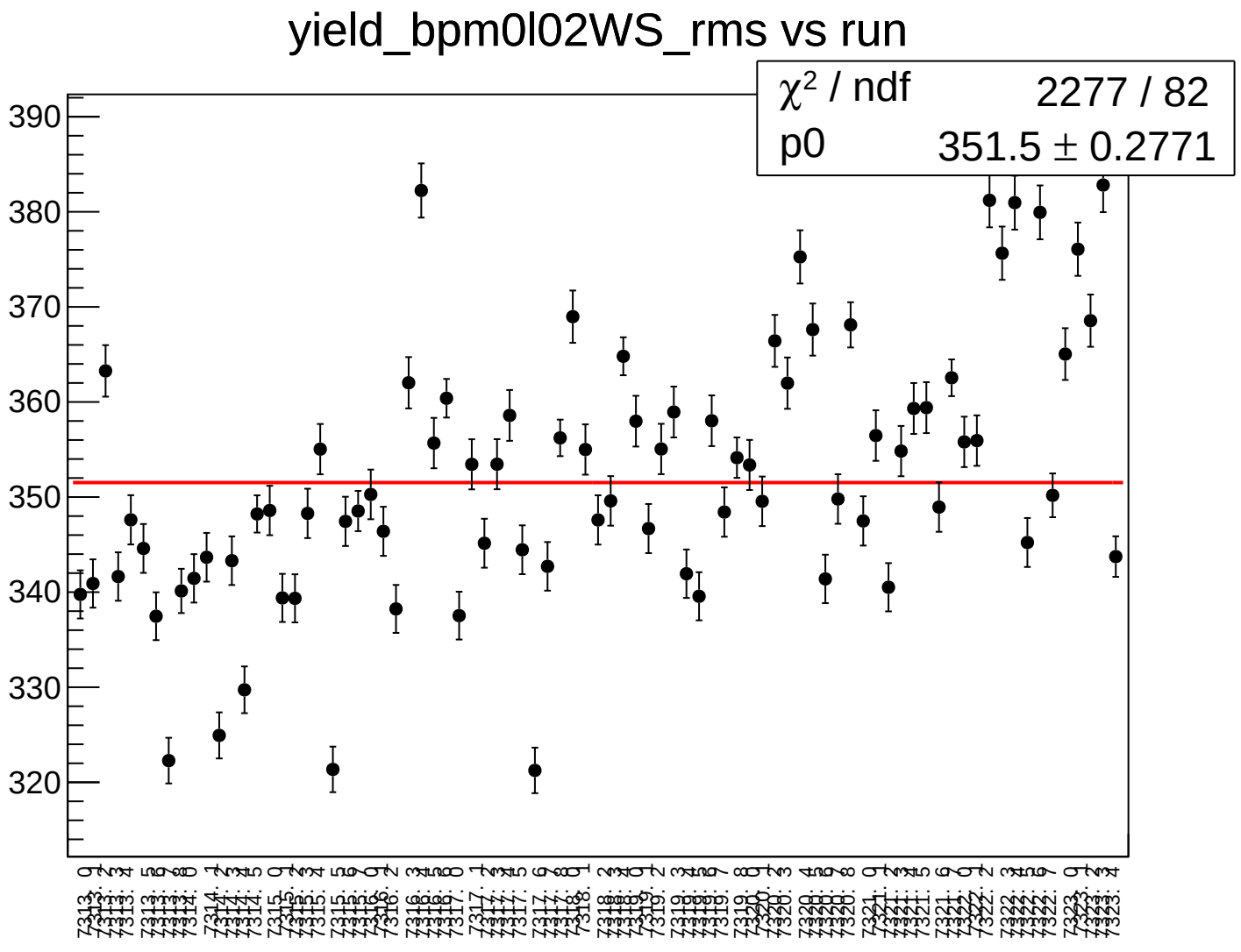

pull
Entries 83
Mean 2933
Std Dev 0
80
60
40
20
0
−20
−40
−60

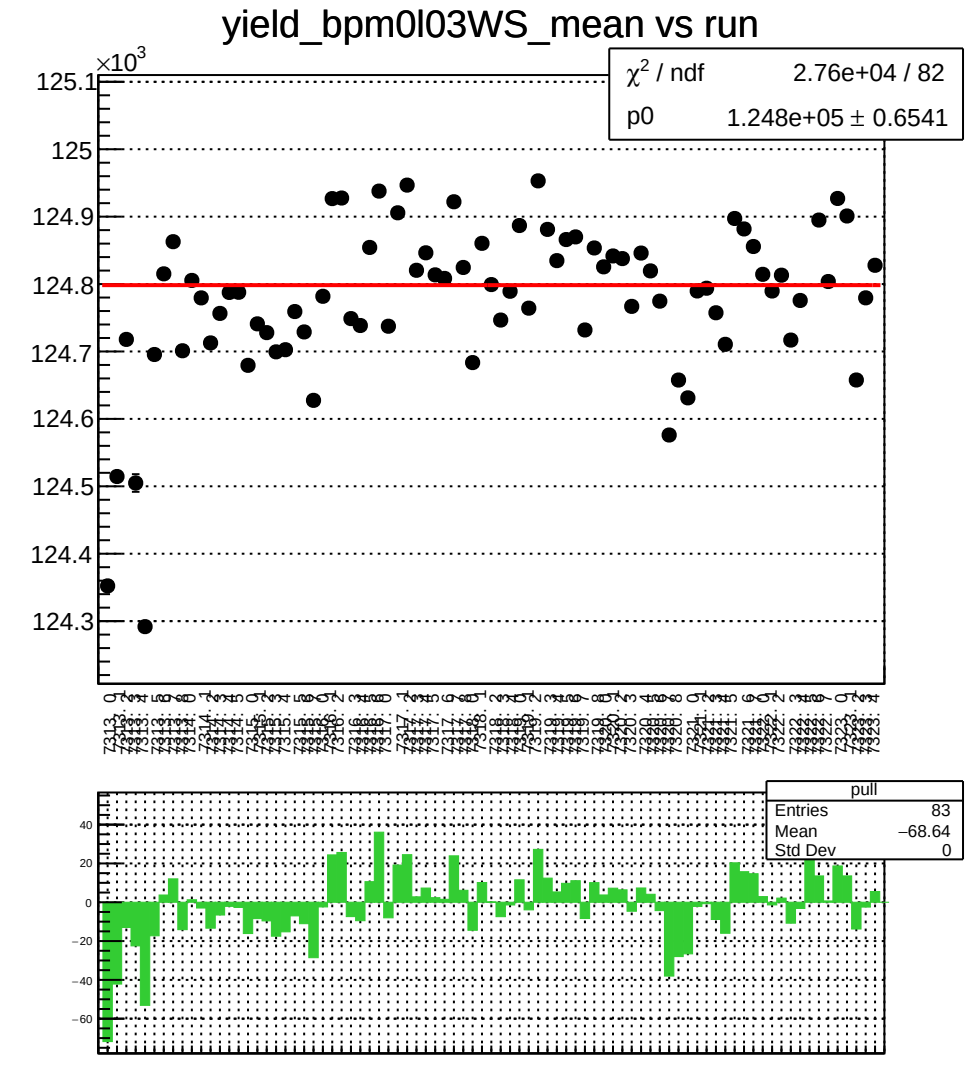

pull1D
Entries 83
Mean 1.542
Std Dev 4.45
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

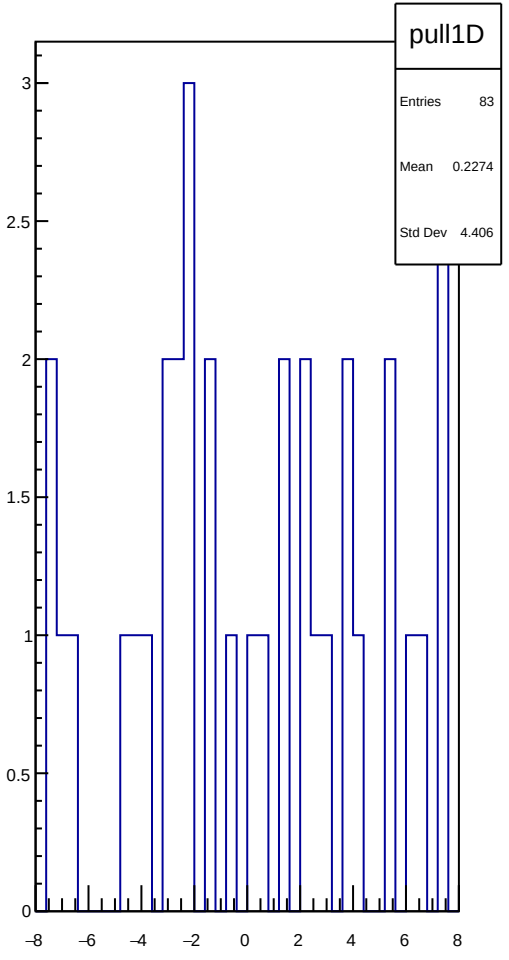

yield_bpm0l01WS_rms vs run
χ² / ndf 1602 / 82
p0 203.9 ± 0.1607
220
215
210
205
200
195
190

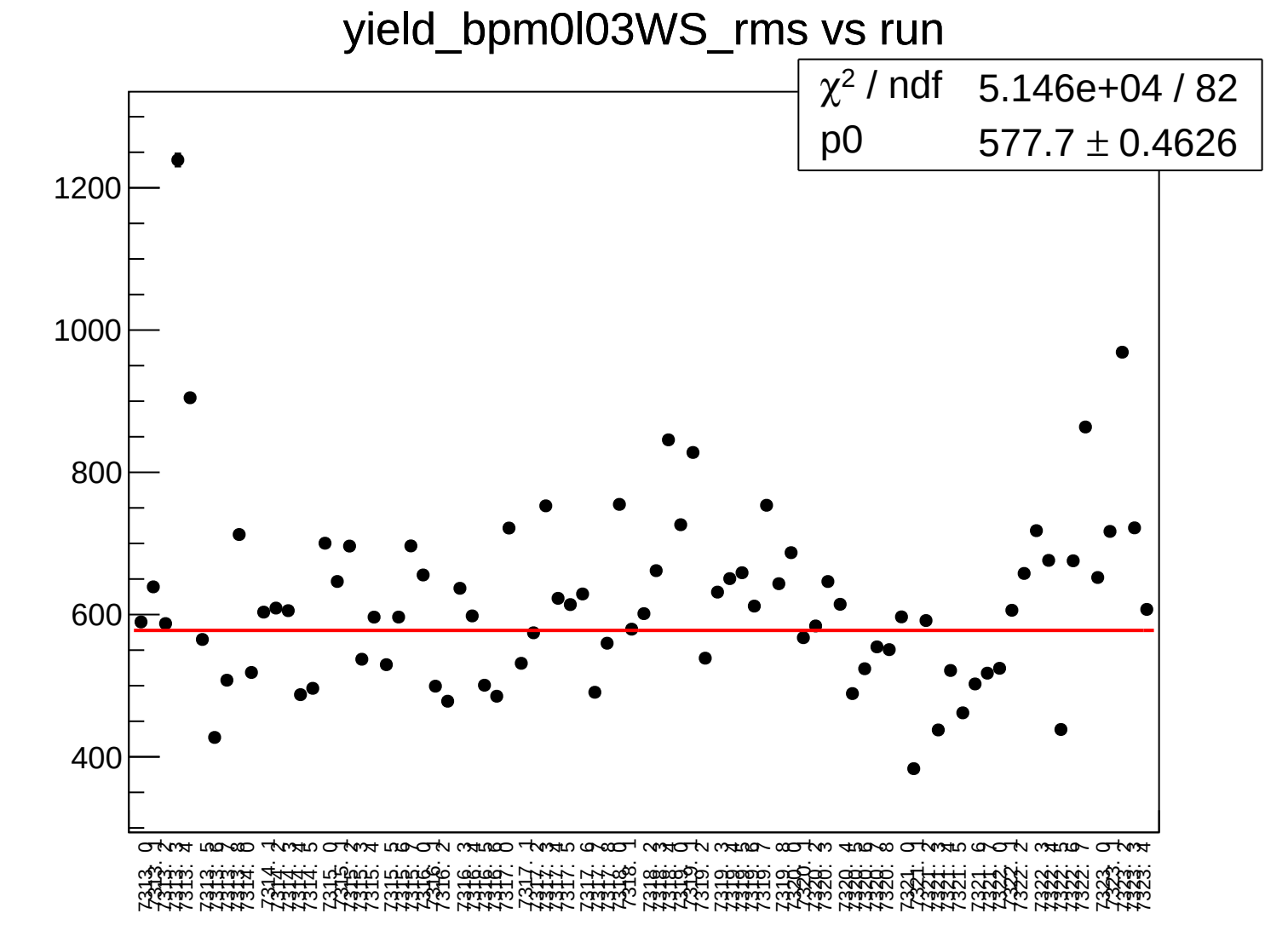

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 9.168e+05 / 82
p0 1.27e+05 ± 0.3919
127.6
127.4
127.2
127
126.8
126.6
126.4
126.2
pull
Entries 83
Mean 1214
Std Dev 0
150
100
50
0
−50
−100
−150
−200

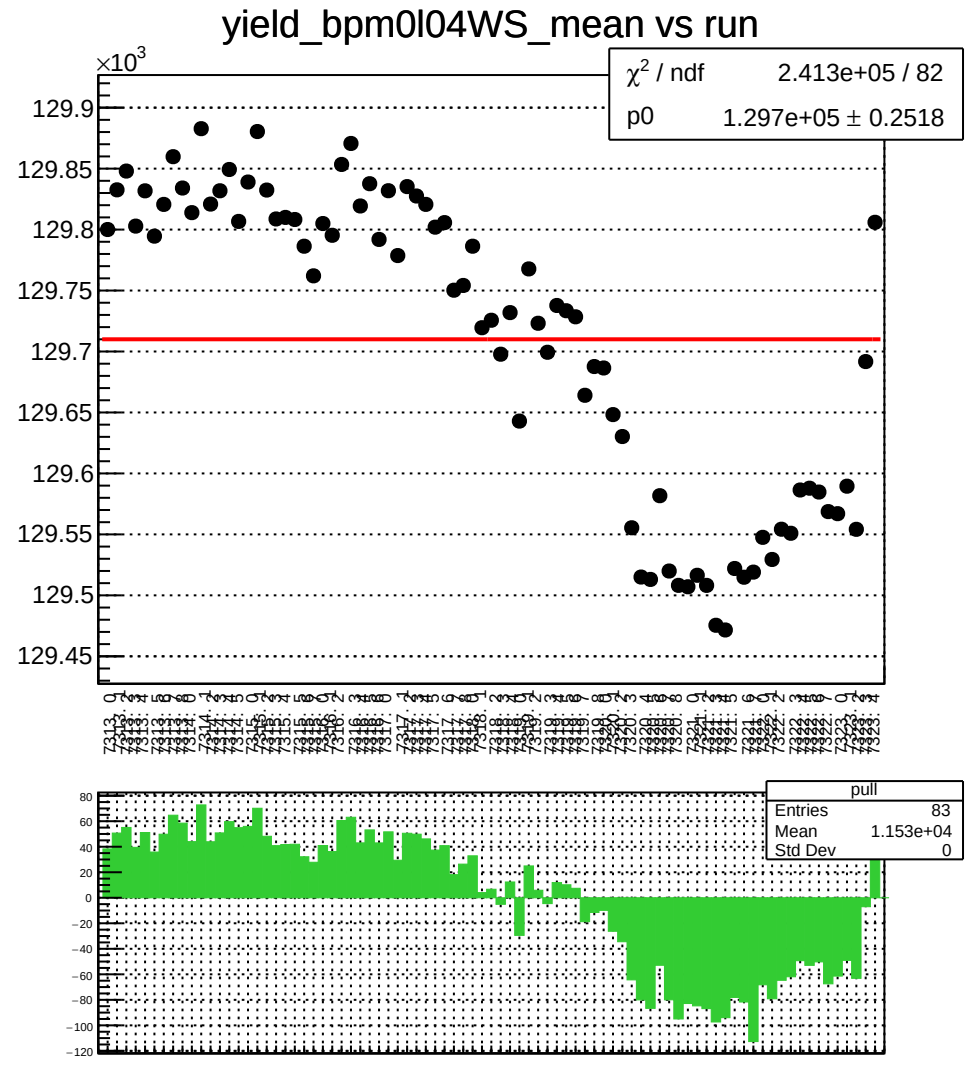

pull1D
Entries 83
Mean 0.8897
Std Dev 5.245
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

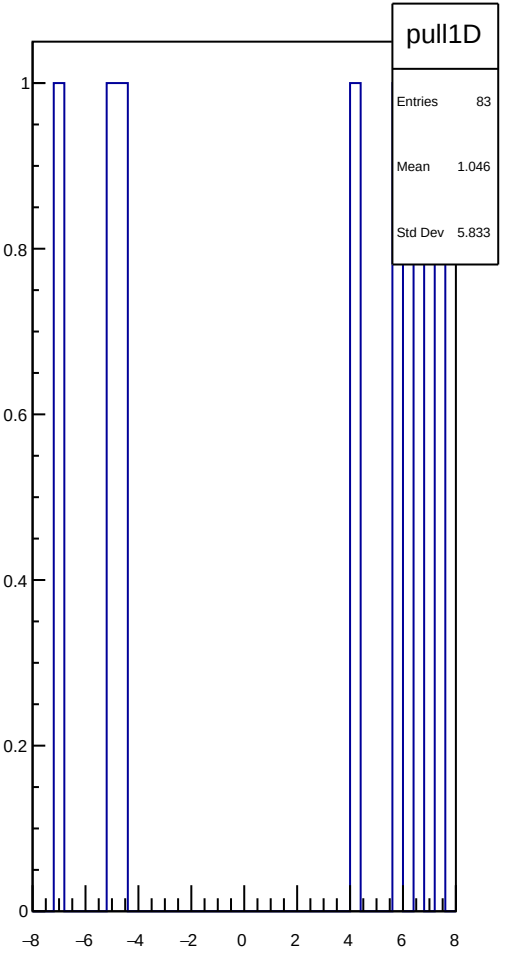

yield_bpm0l02WS_rms vs run
χ² / ndf 2277 / 82
p0 351.5 ± 0.2771
390
380
370
360
350
340
330
320

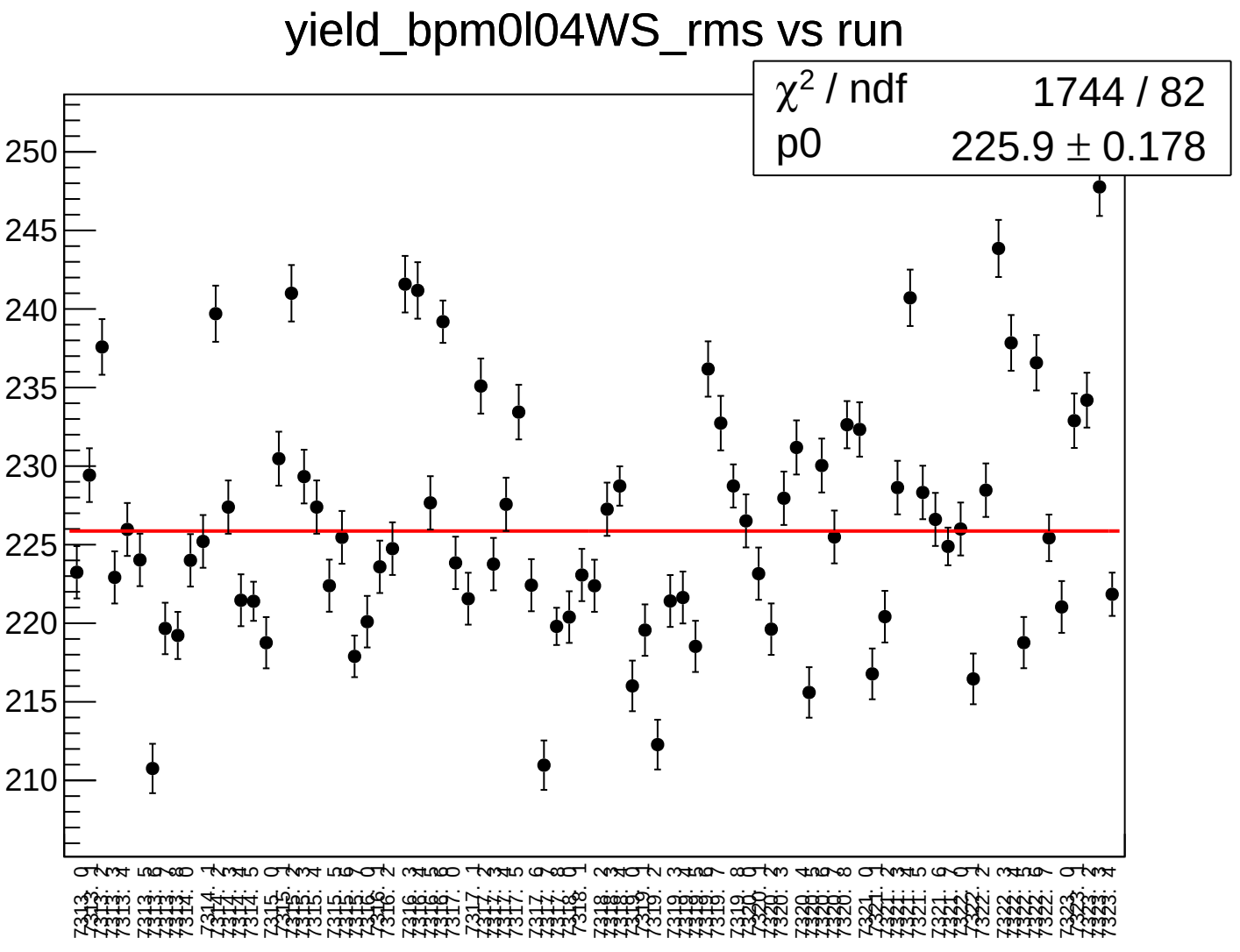

yield_bpm0l03WS_mean vs run
χ² / ndf 2.76e+04 / 82
p0 1.248e+05 ± 0.6541
pull
Entries 83
Mean −68.64
Std Dev 0

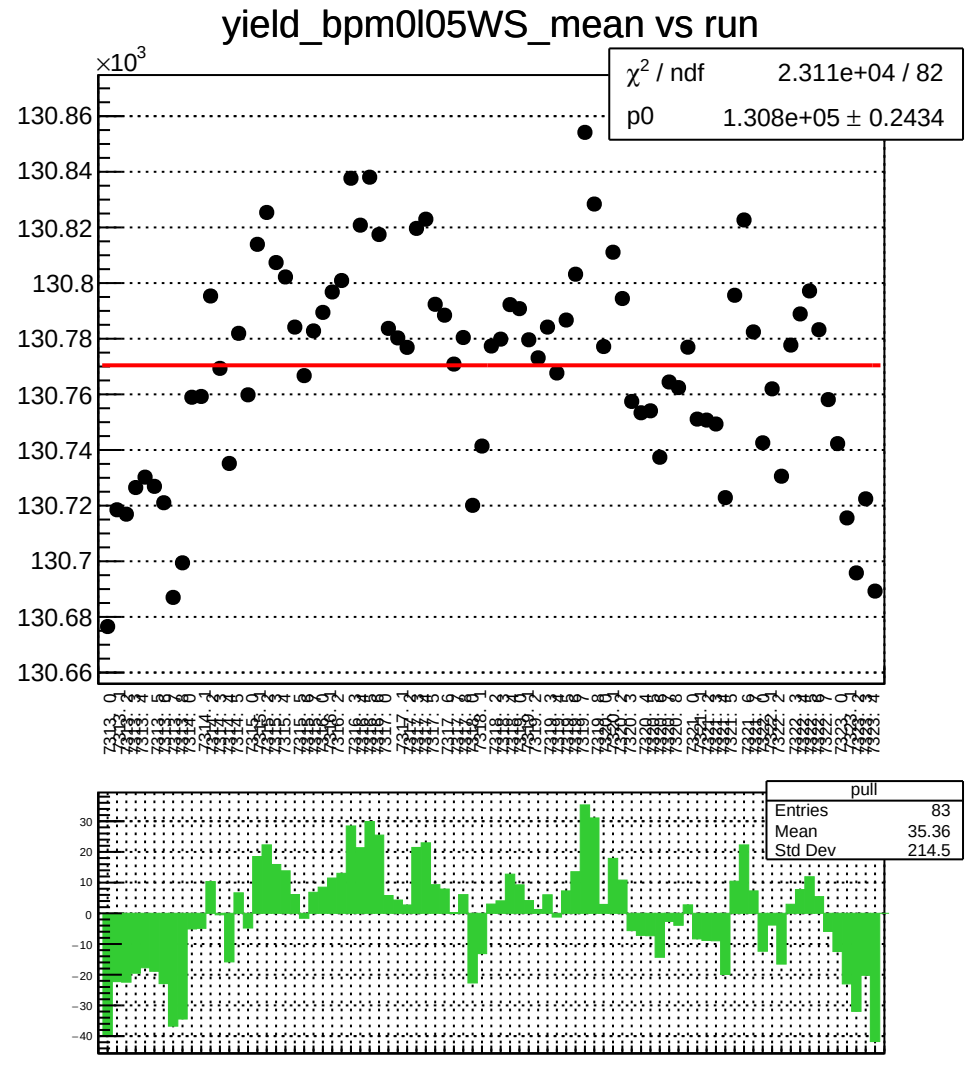

pull1D
Entries 83
Mean 0.2274
Std Dev 4.406

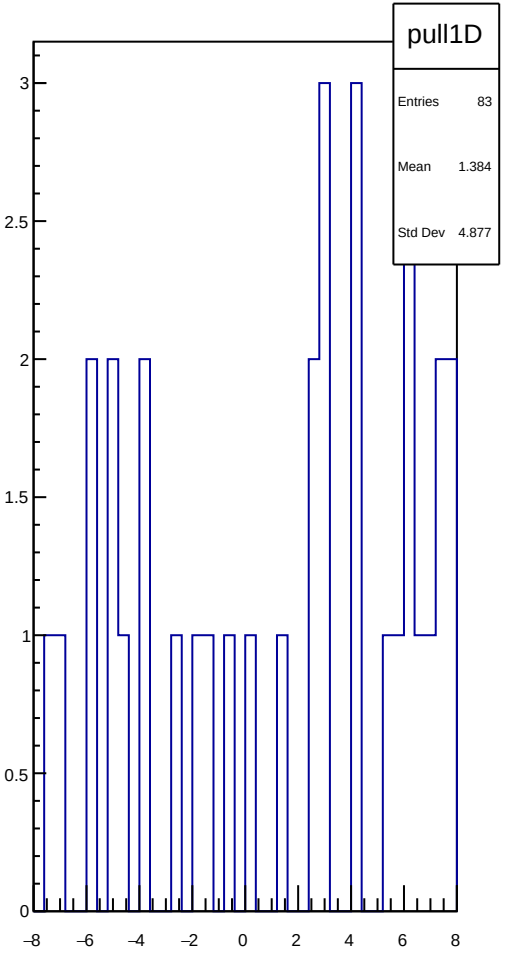

yield_bpm0l03WS_rms vs run
χ² / ndf 5.146e+04 / 82
p0 577.7 ± 0.4626
1200
1000
800
600
400

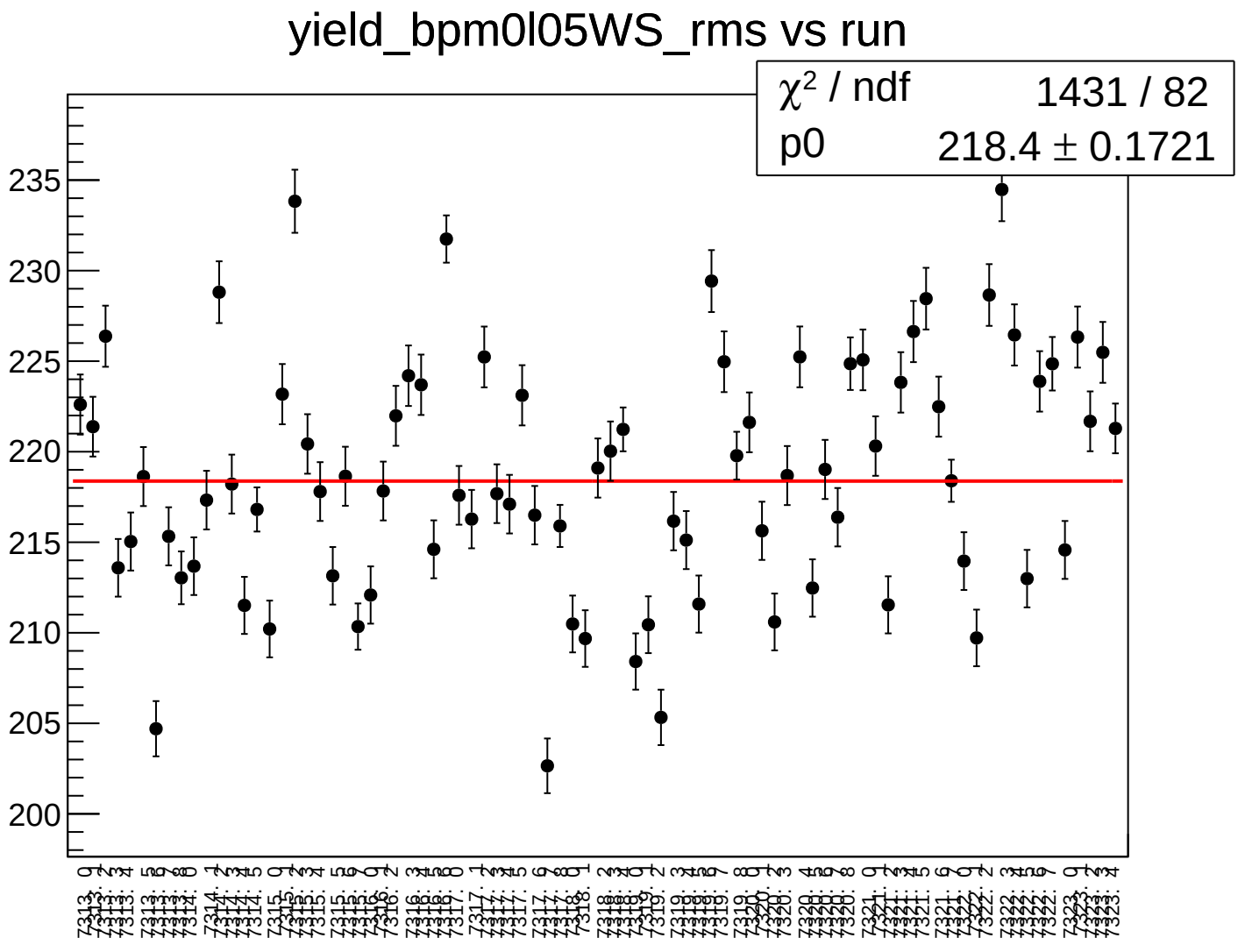

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.413e+05 / 82
p0 1.297e+05 ± 0.2518
129.9
129.85
129.8
129.75
129.7
129.65
129.6
129.55
129.5
129.45
pull
Entries 83
Mean 1.153e+04
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

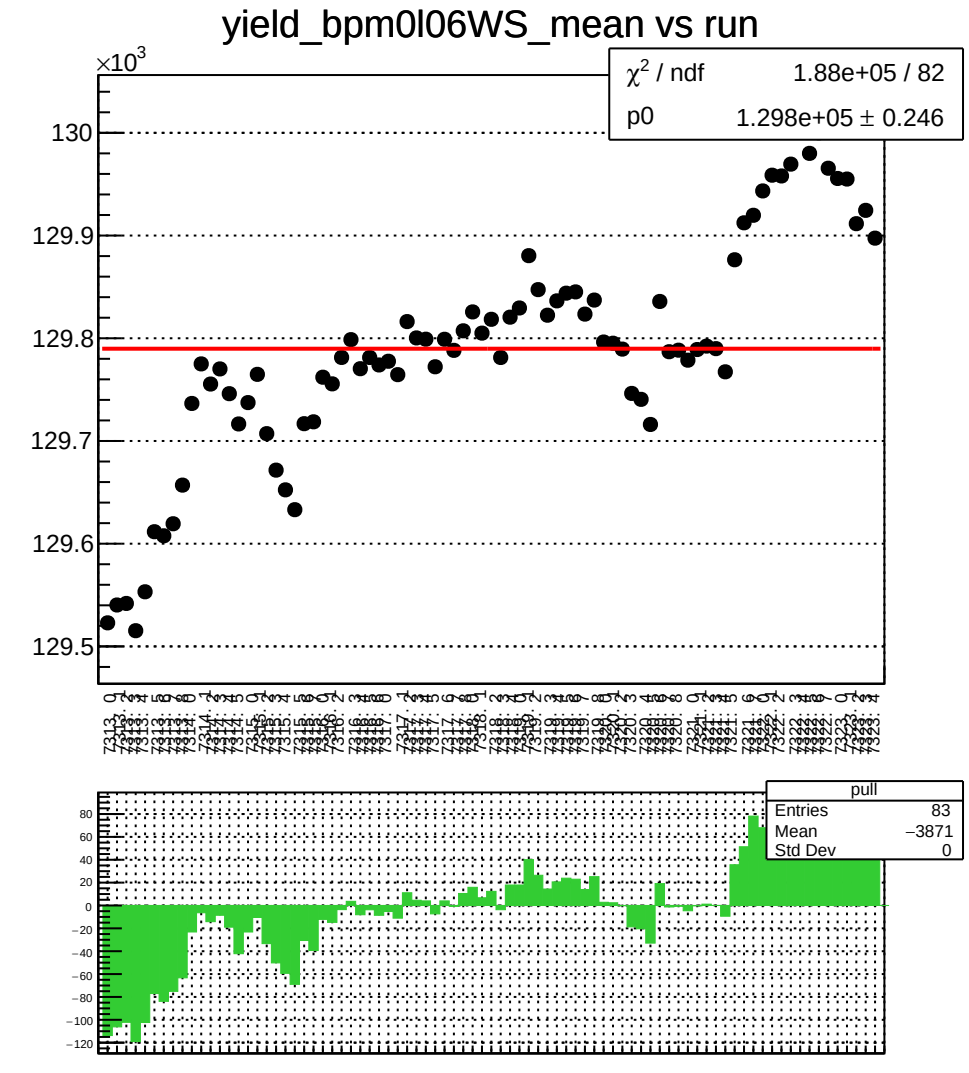

pull1D
Entries 83
Mean 1.046
Std Dev 5.833
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

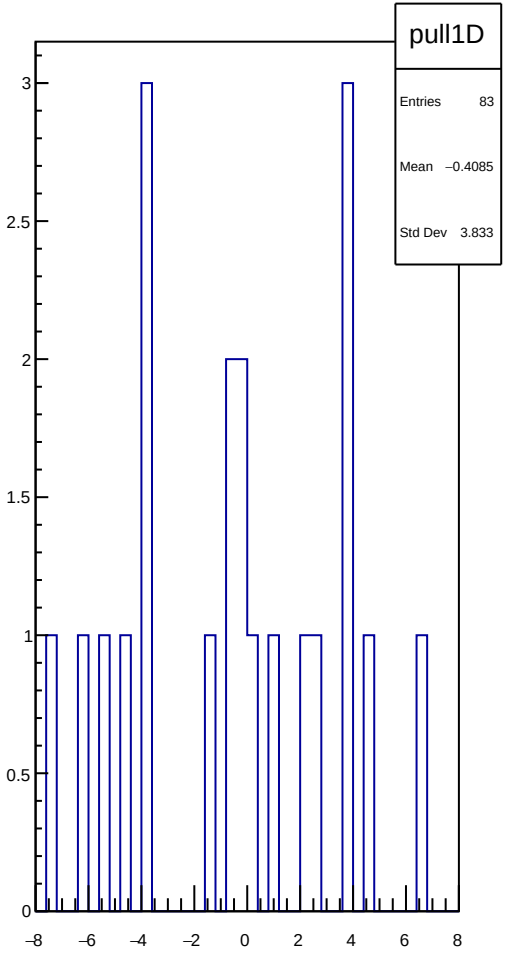

yield_bpm0l04WS_rms vs run
χ² / ndf 1744 / 82
p0 225.9 ± 0.178
250
245
240
235
230
225
220
215
210

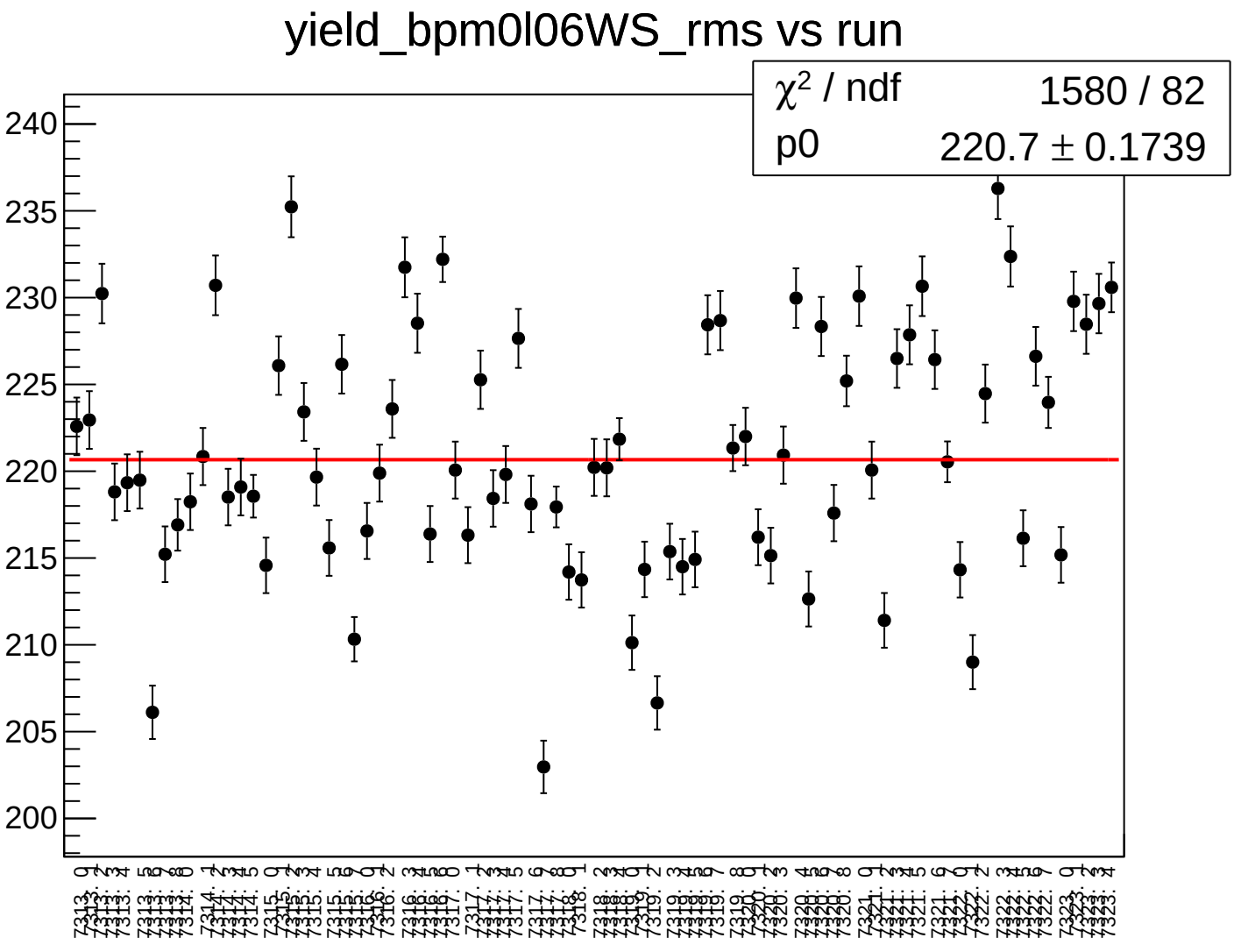

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.311e+04 / 82
p0 1.308e+05 ± 0.2434
130.86
130.84
130.82
130.8
130.78
130.76
130.74
130.72
130.7
130.68
130.66
pull
Entries 83
Mean 35.36
Std Dev 214.5
30
20
10
0
−10
−20
−30
−40

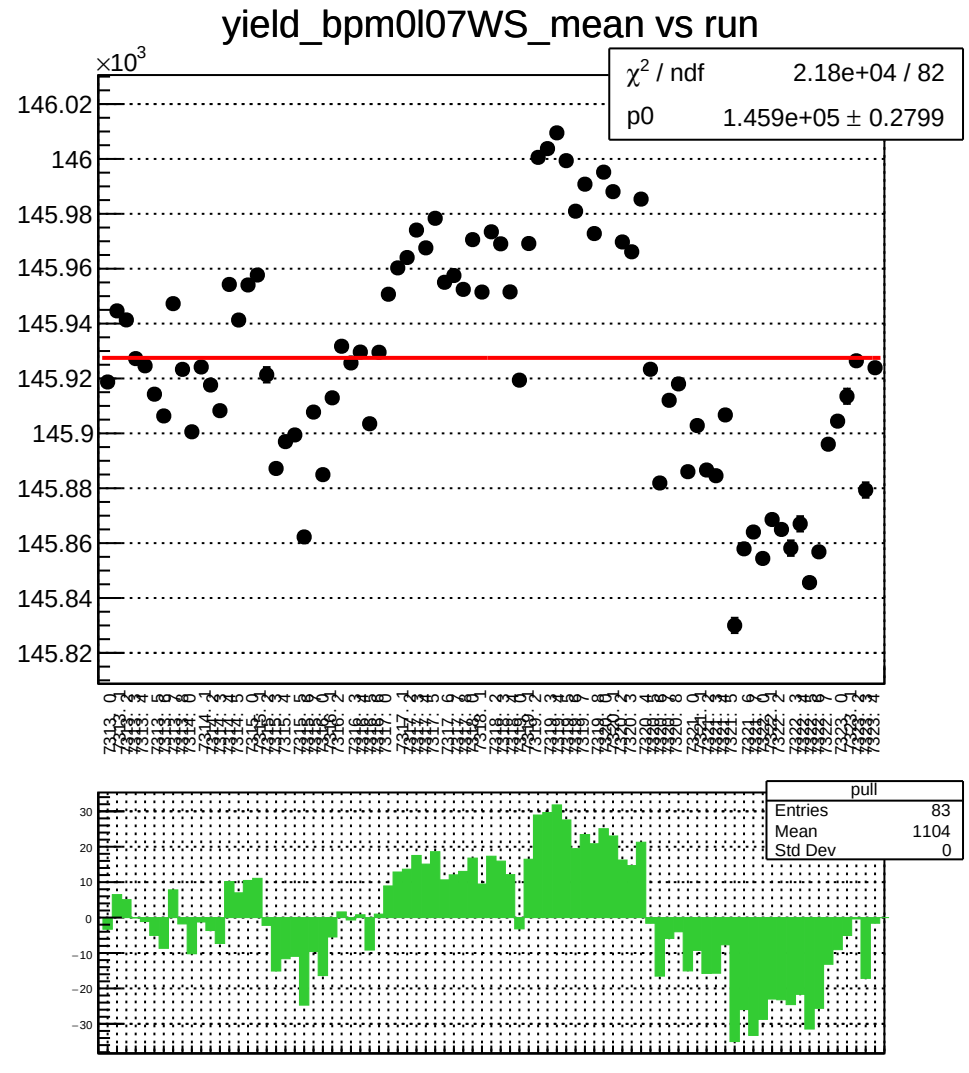

pull1D
Entries 83
Mean 1.384
Std Dev 4.877
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

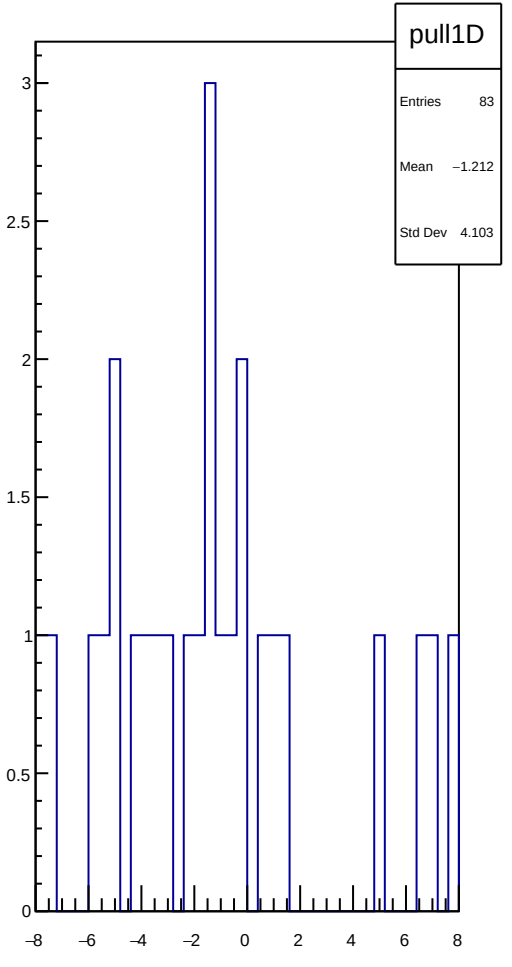

yield_bpm0l05WS_rms vs run
χ² / ndf 1431 / 82
p0 218.4 ± 0.1721
235
230
225
220
215
210
205
200

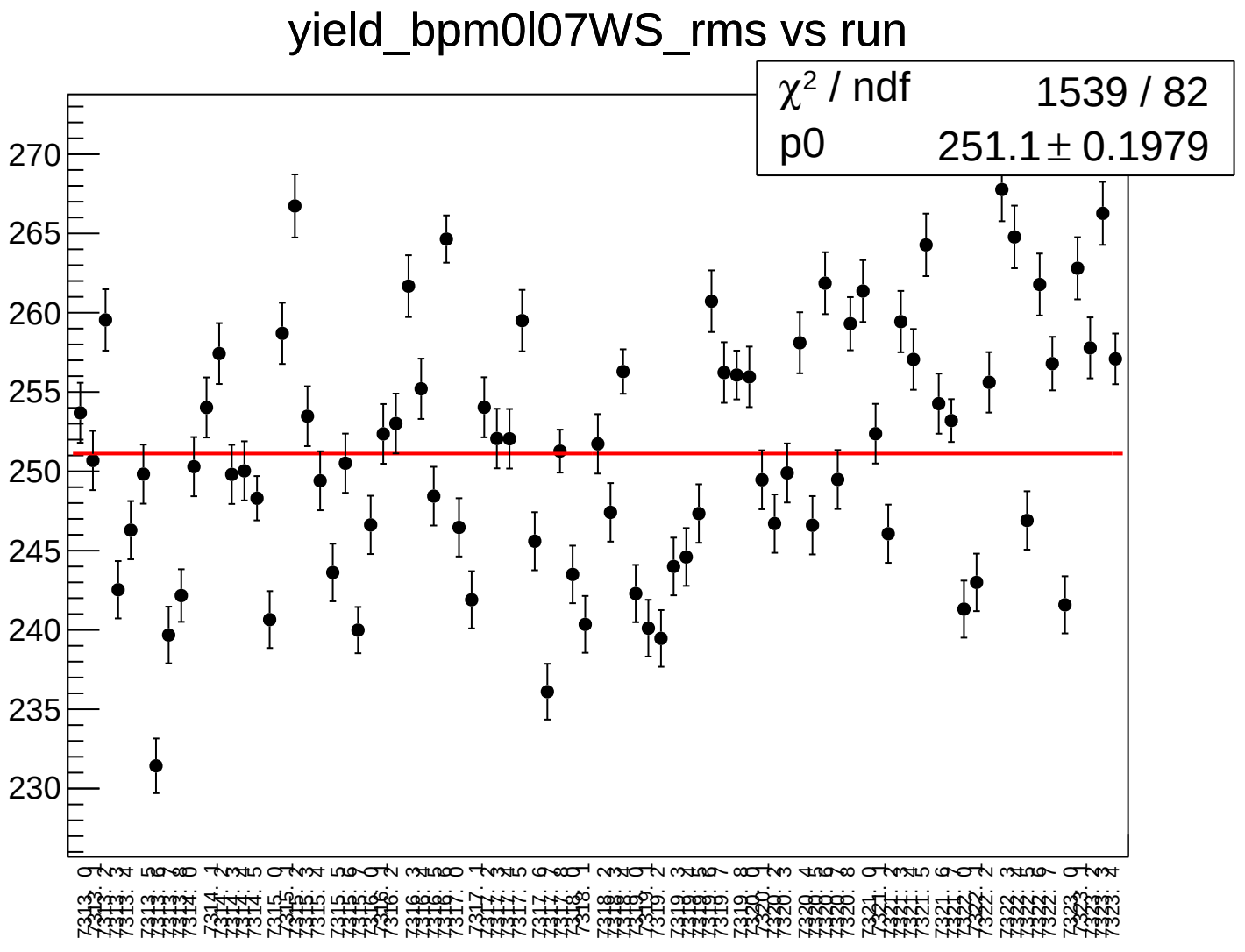

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.88e+05 / 82
p0 1.298e+05 ± 0.246
130
129.9
129.8
129.7
129.6
129.5
pull
Entries 83
Mean −3871
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

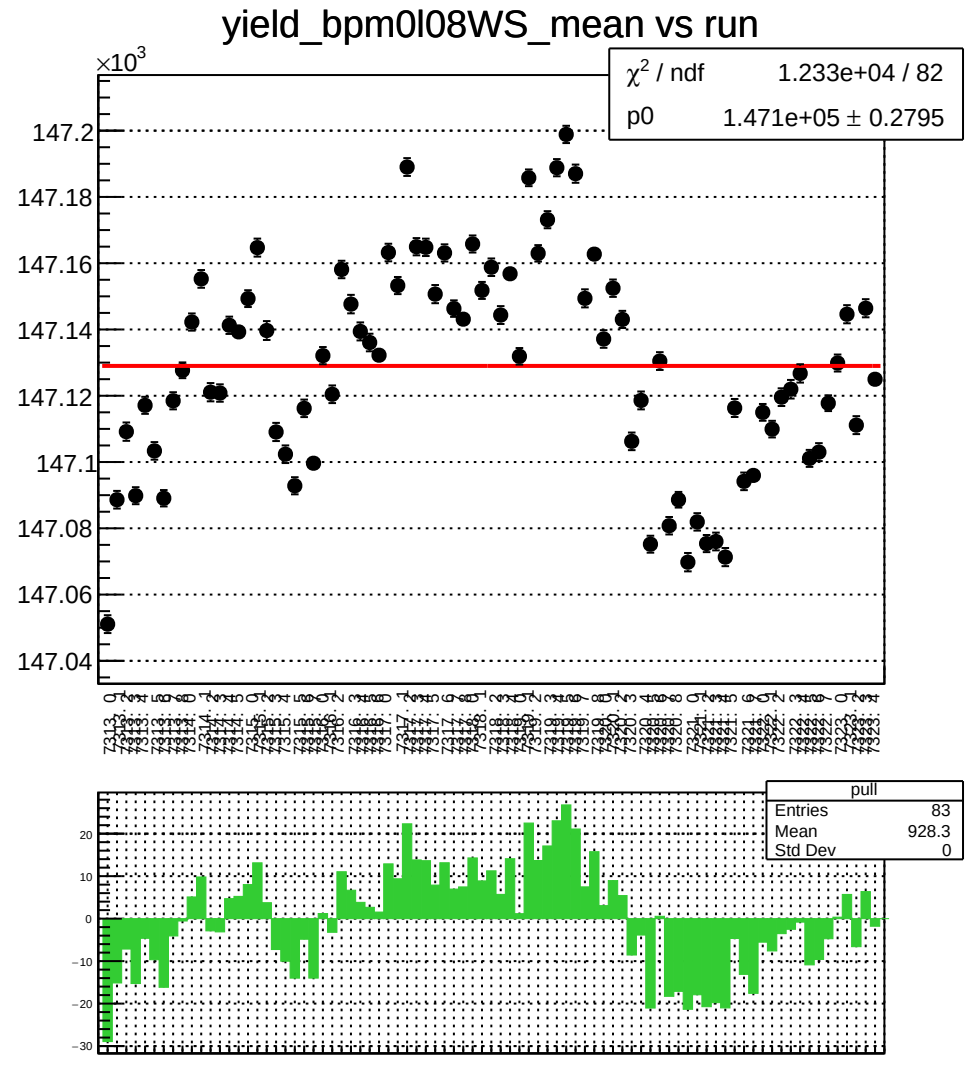

pull1D
Entries 83
Mean −0.4085
Std Dev 3.833
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

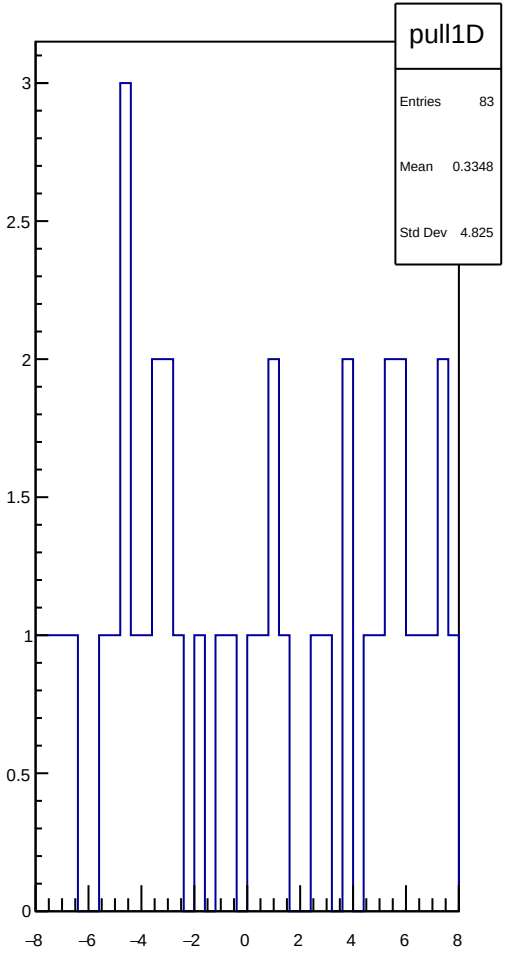

yield_bpm0l06WS_rms vs run
χ² / ndf 1580 / 82
p0 220.7 ± 0.1739
240
235
230
225
220
215
210
205
200

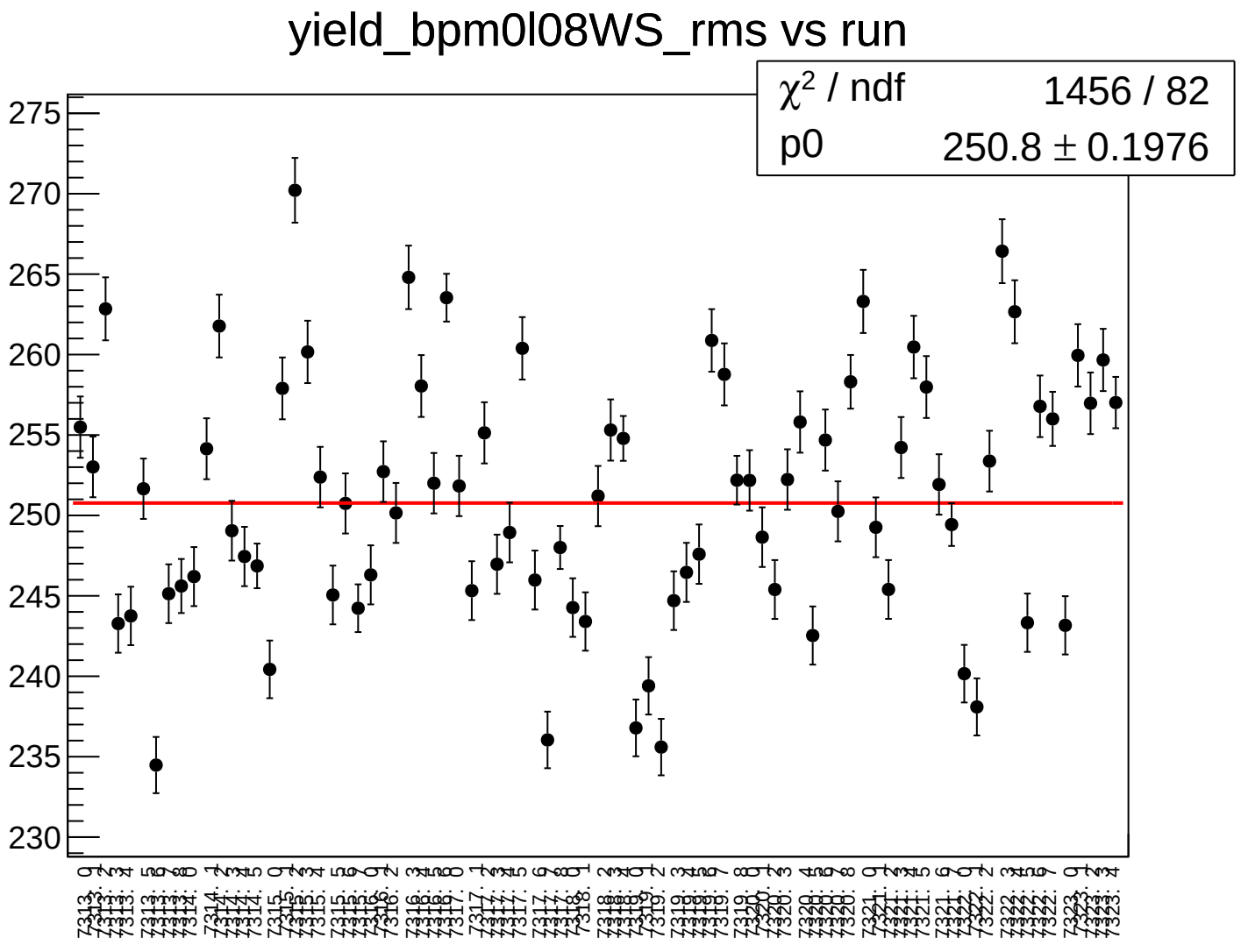

yield_bpm0l07WS_mean vs run
χ² / ndf 2.18e+04 / 82
p0 1.459e+05 ± 0.2799
×10³
146.02
146
145.98
145.96
145.94
145.92
145.9
145.88
145.86
145.84
145.82
pull
Entries 83
Mean 1104
Std Dev 0
30
20
10
0
−10
−20
−30

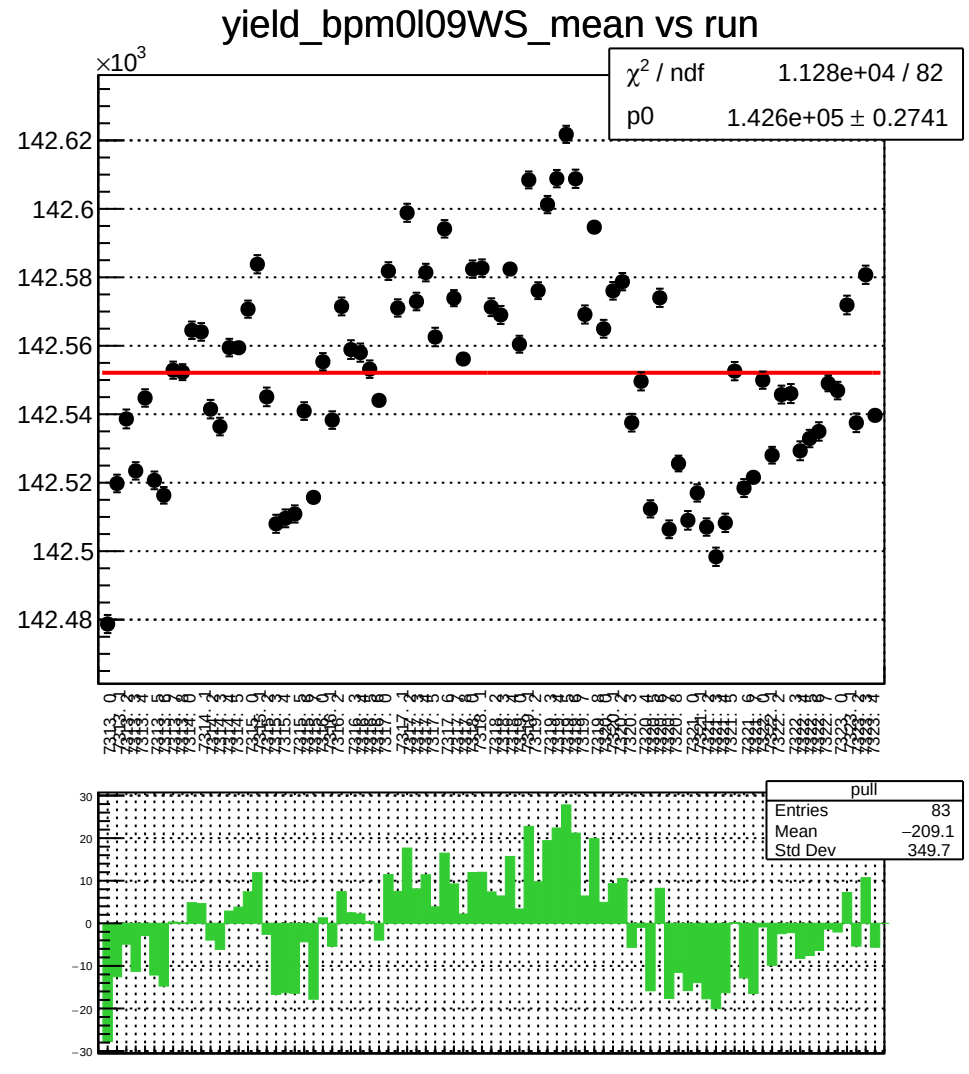

pull1D
Entries 83
Mean −1.212
Std Dev 4.103
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

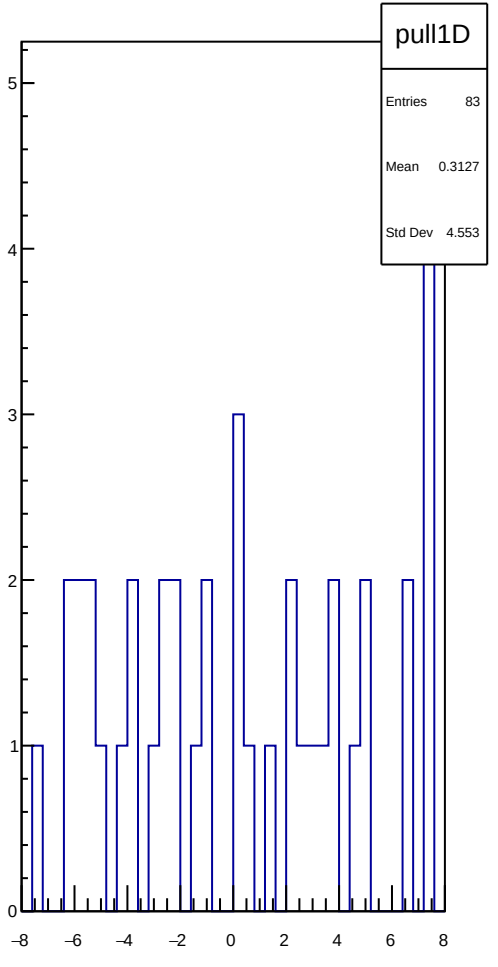

yield_bpm0l07WS_rms vs run
χ² / ndf 1539 / 82
p0 251.1 ± 0.1979
270
265
260
255
250
245
240
235
230

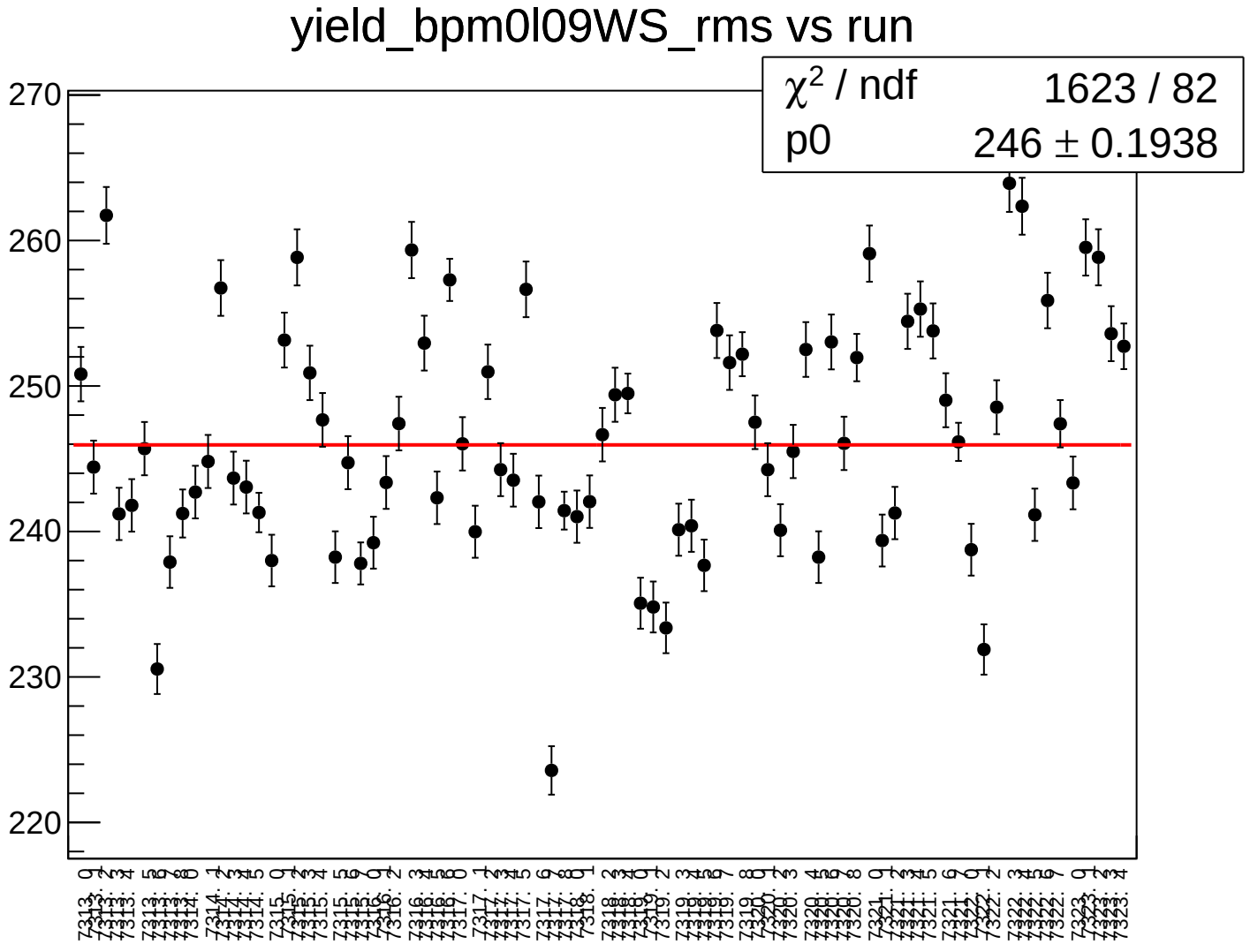

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.233e+04 / 82
p0 1.471e+05 ± 0.2795
147.2
147.18
147.16
147.14
147.12
147.1
147.08
147.06
147.04
pull
Entries 83
Mean 928.3
Std Dev 0
20
10
0
−10
−20
−30

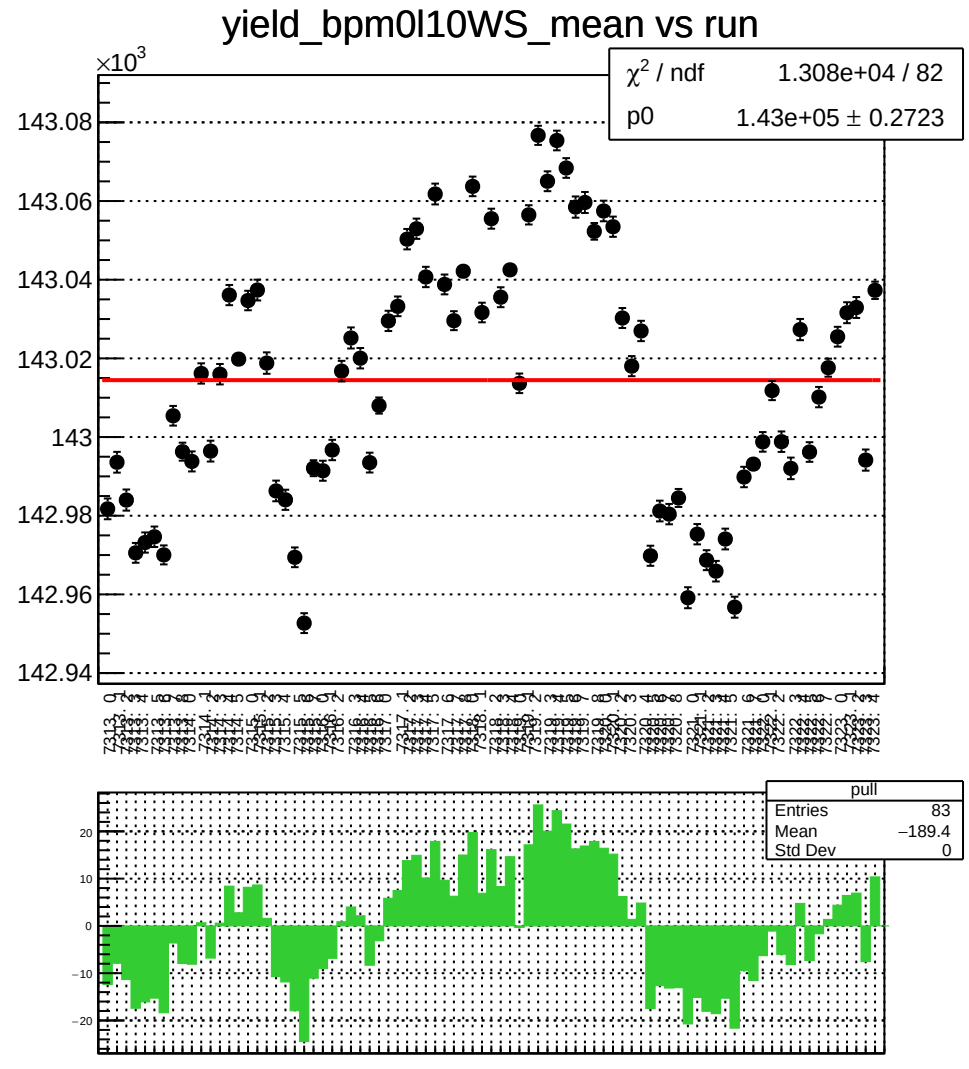

pull1D
Entries 83
Mean 0.3348
Std Dev 4.825
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

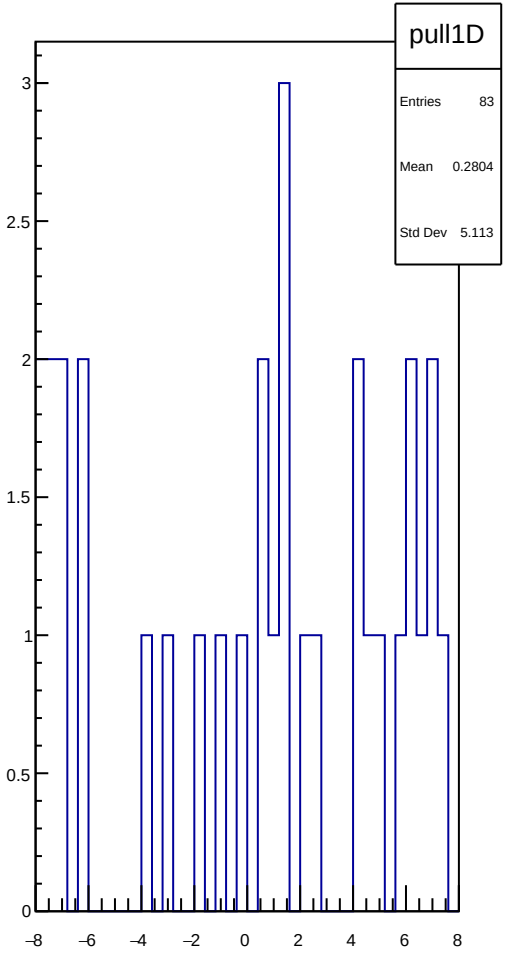

yield_bpm0l08WS_rms vs run
χ² / ndf 1456 / 82
p0 250.8 ± 0.1976
275
270
265
260
255
250
245
240
235
230

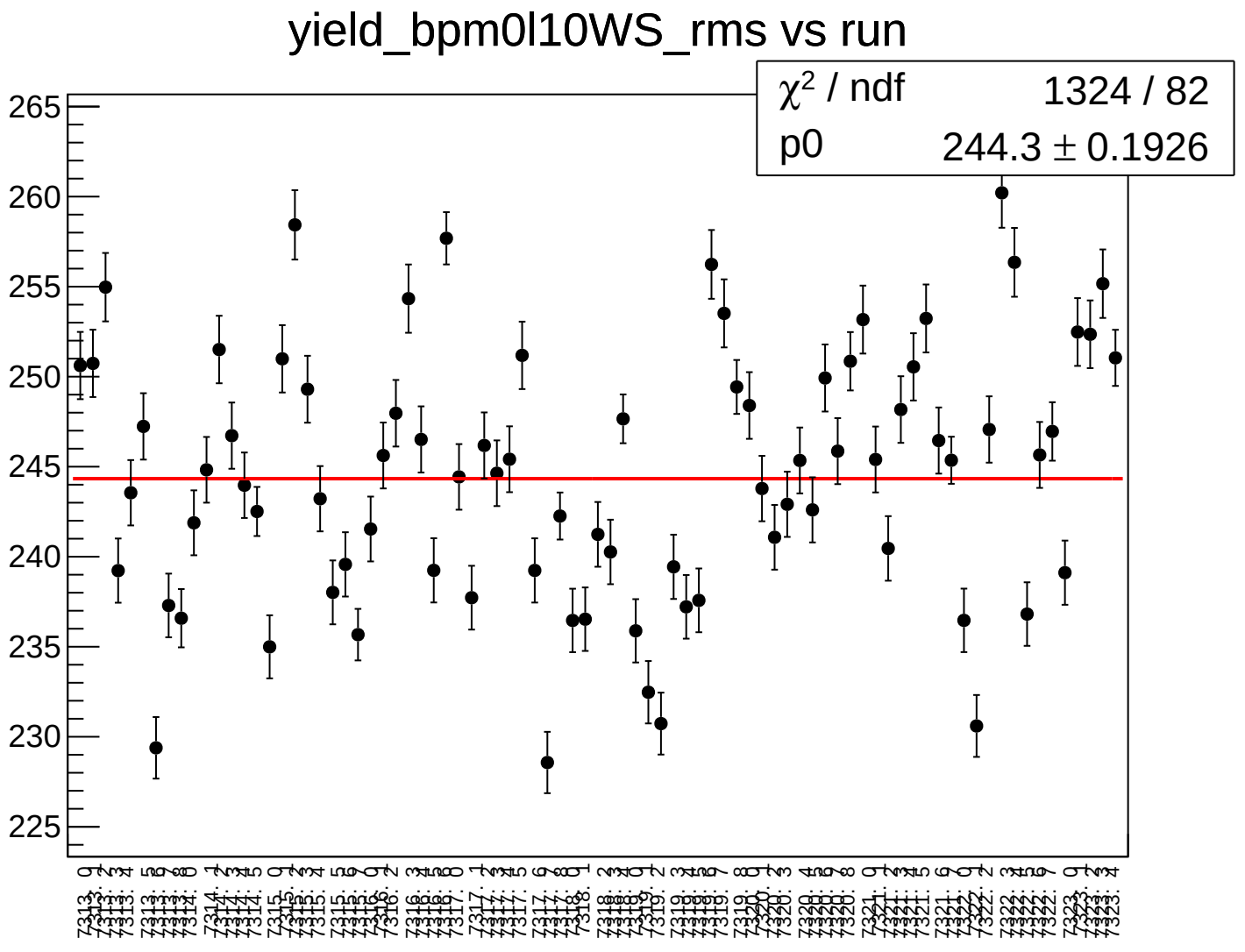

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.128e+04 / 82
p0 1.426e+05 ± 0.2741
142.62
142.6
142.58
142.56
142.54
142.52
142.5
142.48
pull
Entries 83
Mean −209.1
Std Dev 349.7
30
20
10
0
−10
−20
−30

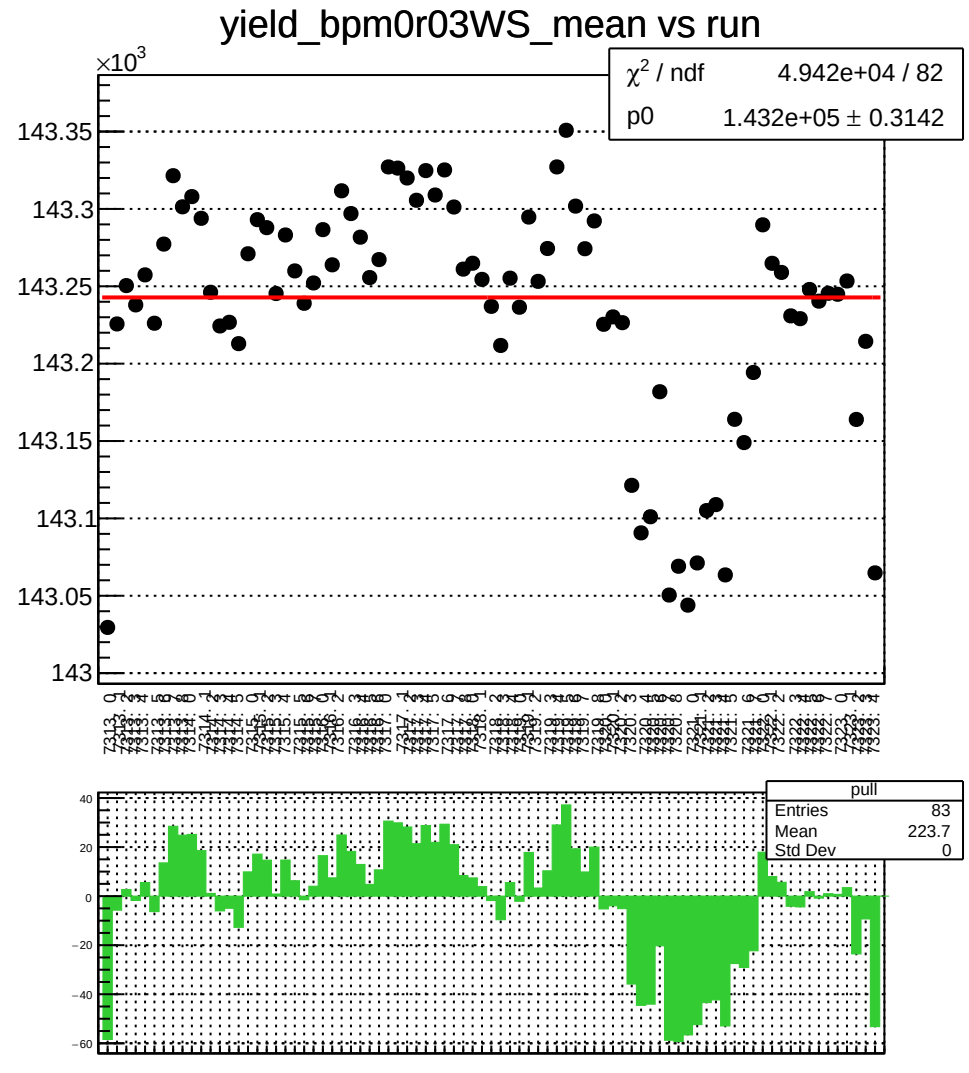

pull1D
Entries 83
Mean 0.3127
Std Dev 4.553
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

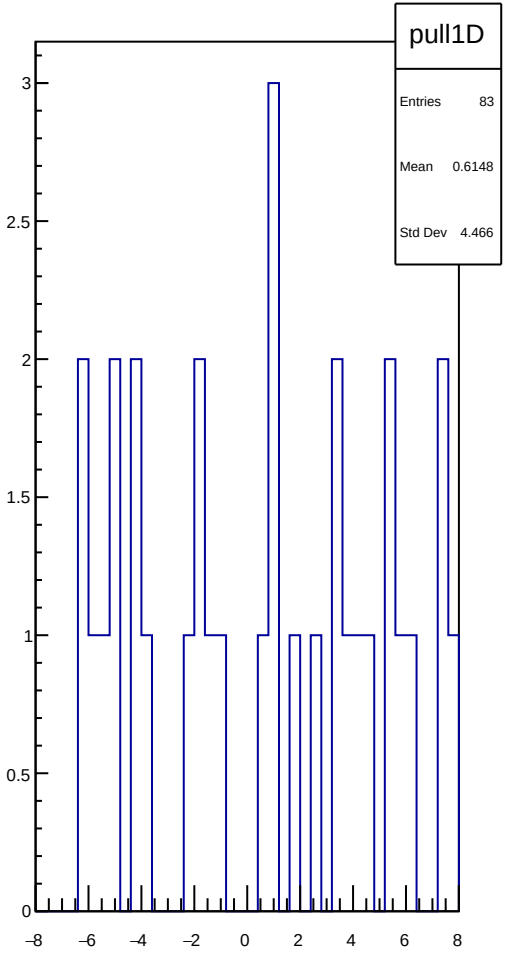

yield_bpm0l09WS_rms vs run
χ² / ndf 1623 / 82
p0 246 ± 0.1938
270
260
250
240
230
220

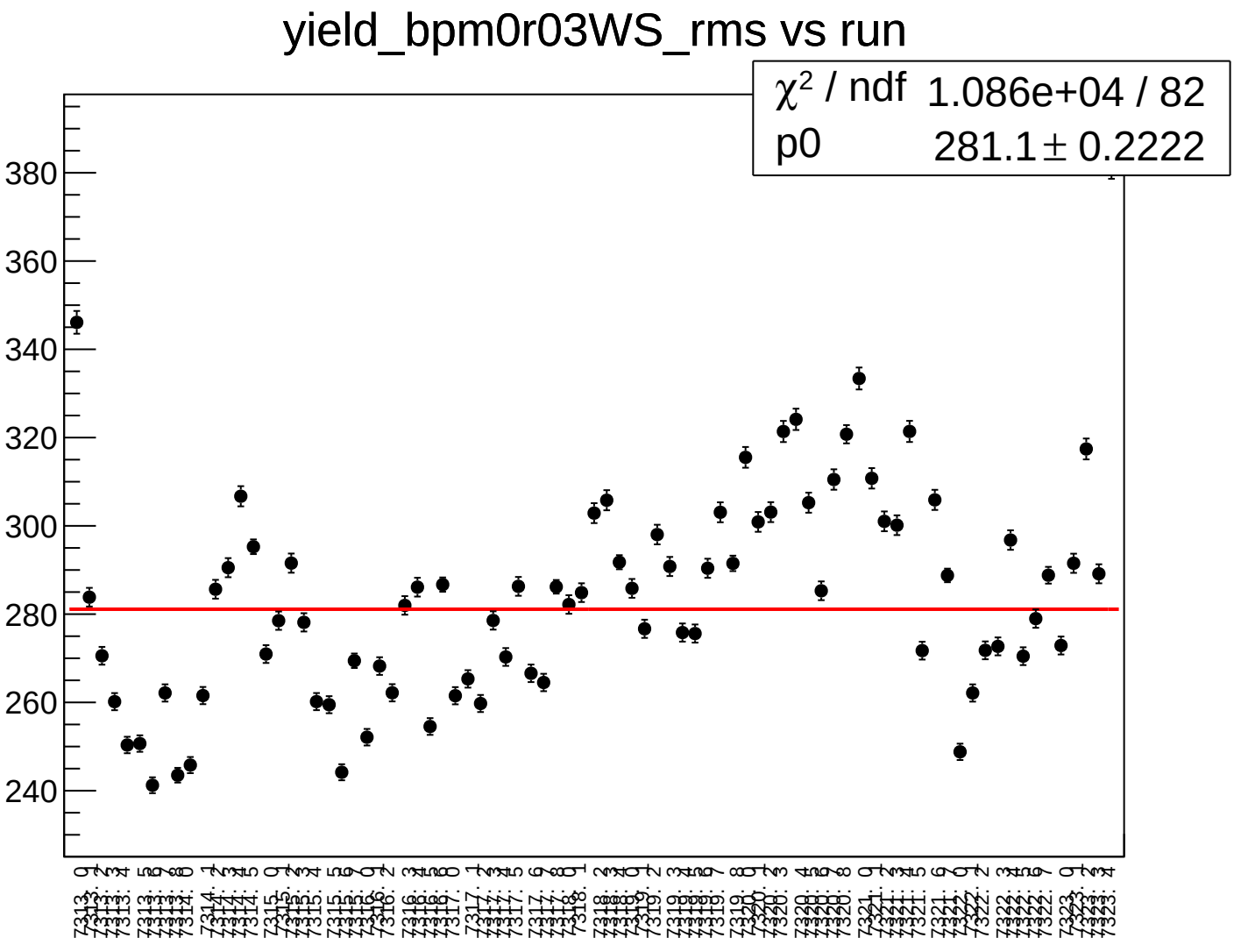

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.308e+04 / 82
p0 1.43e+05 ± 0.2723
143.08
143.06
143.04
143.02
143
142.98
142.96
142.94
pull
Entries 83
Mean −189.4
Std Dev 0
20
10
0
−10
−20

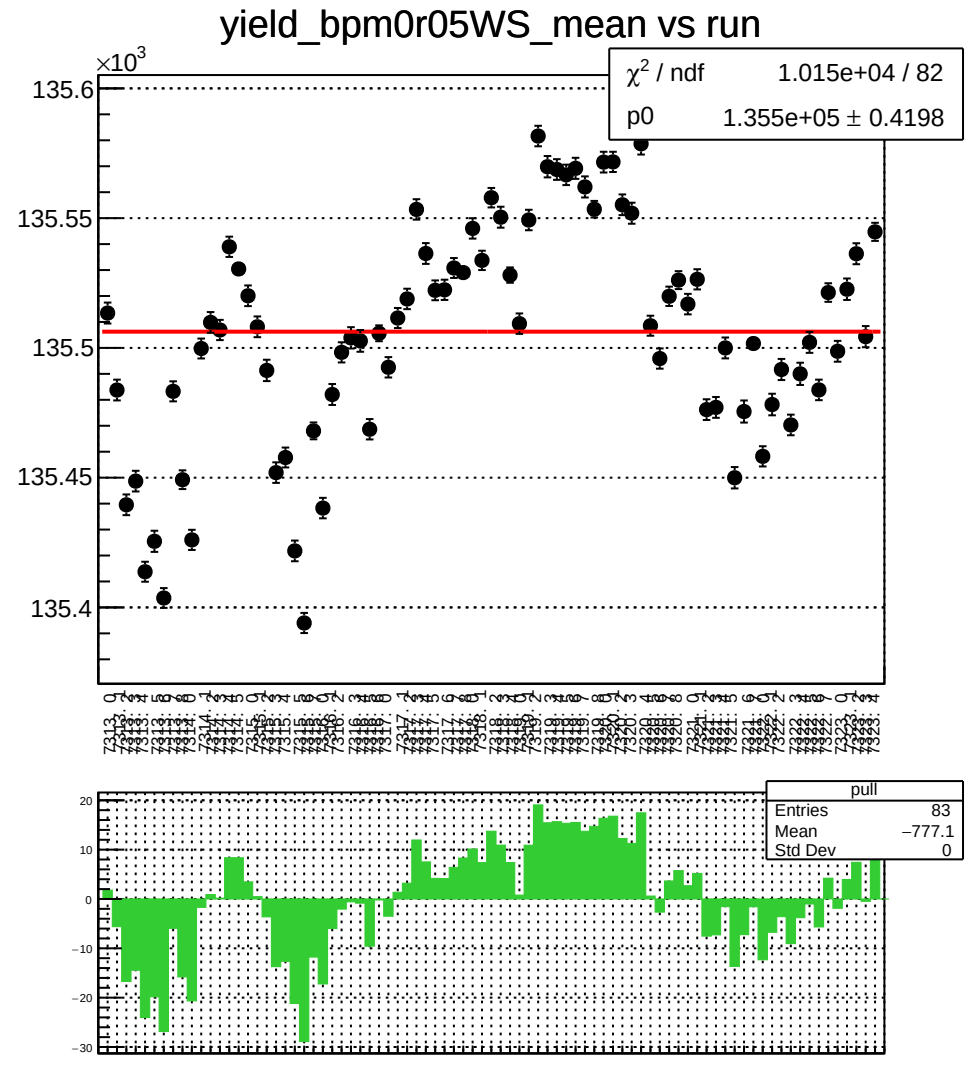

pull1D
Entries 83
Mean 0.2804
Std Dev 5.113
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

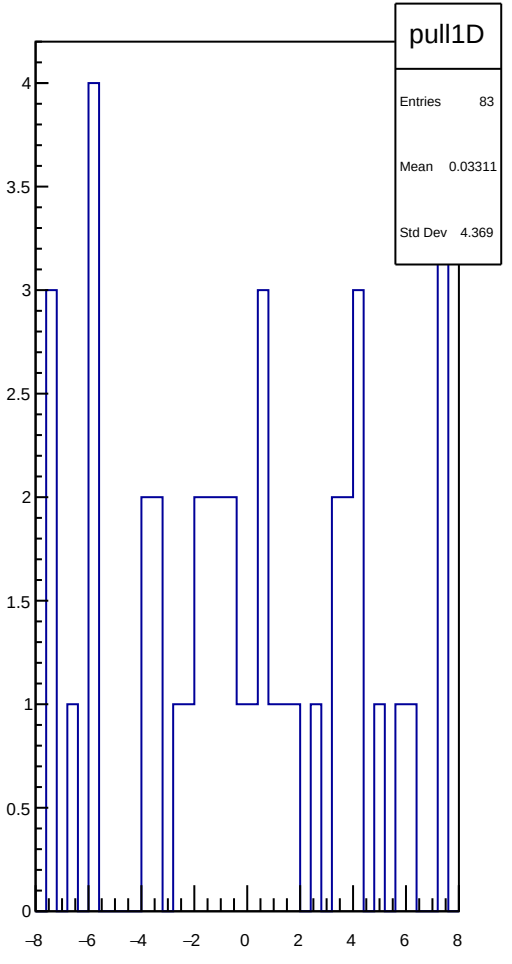

yield_bpm0l10WS_rms vs run
χ² / ndf 1324 / 82
p0 244.3 ± 0.1926
265
260
255
250
245
240
235
230
225

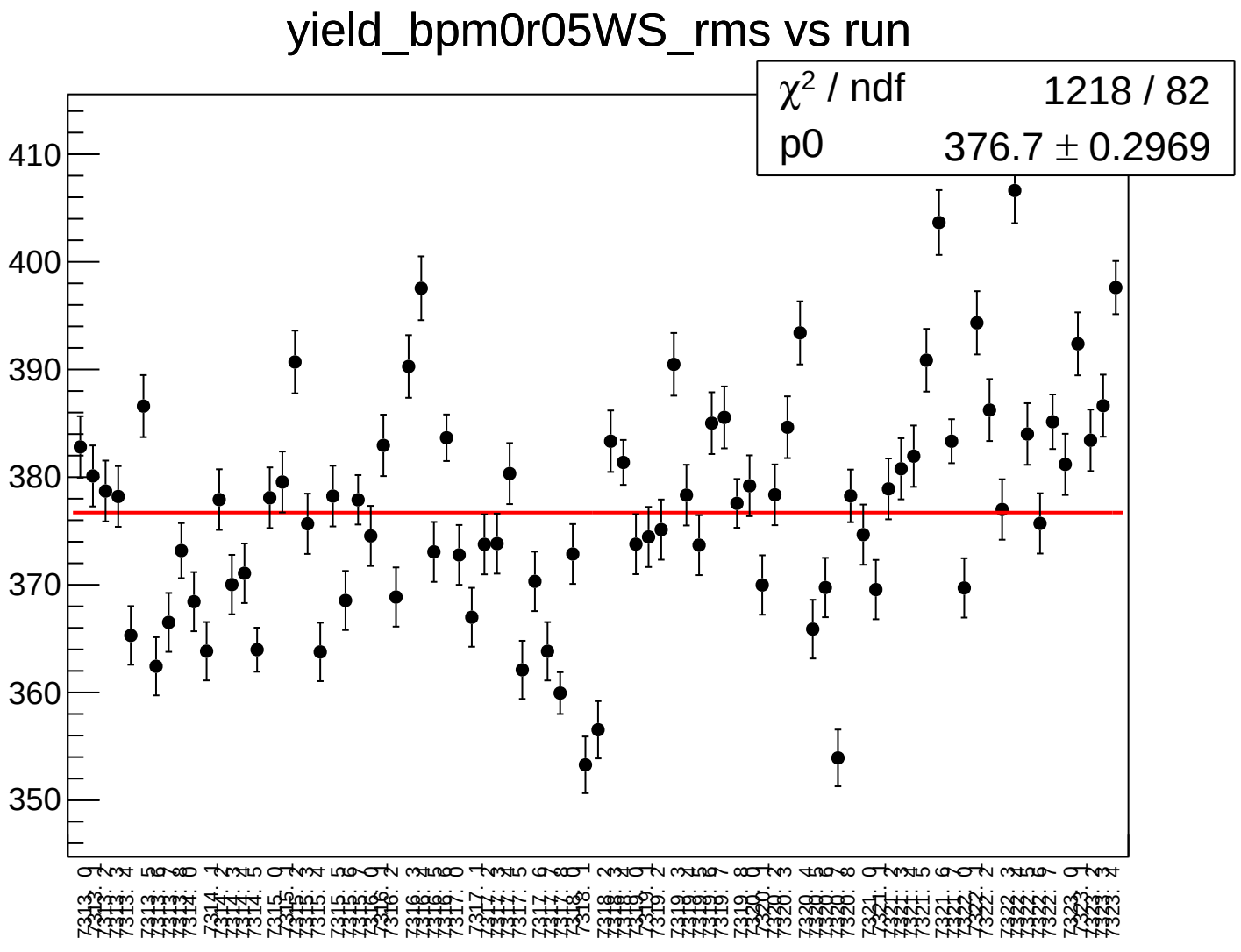

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.942e+04 / 82
p0 1.432e+05 ± 0.3142
143.35
143.3
143.25
143.2
143.15
143.1
143.05
143
pull
Entries 83
Mean 223.7
Std Dev 0
40
20
0
−20
−40
−60

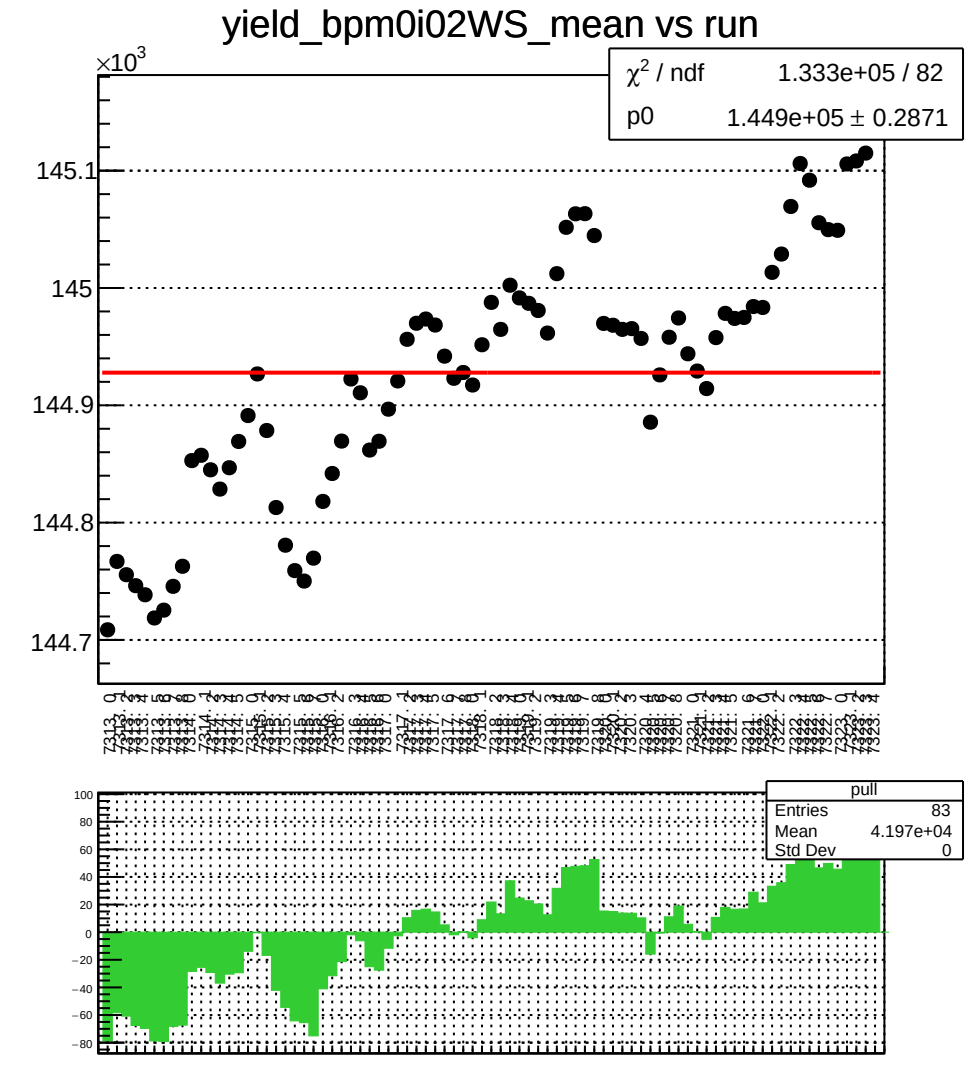

pull1D
Entries 83
Mean 0.6148
Std Dev 4.466
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

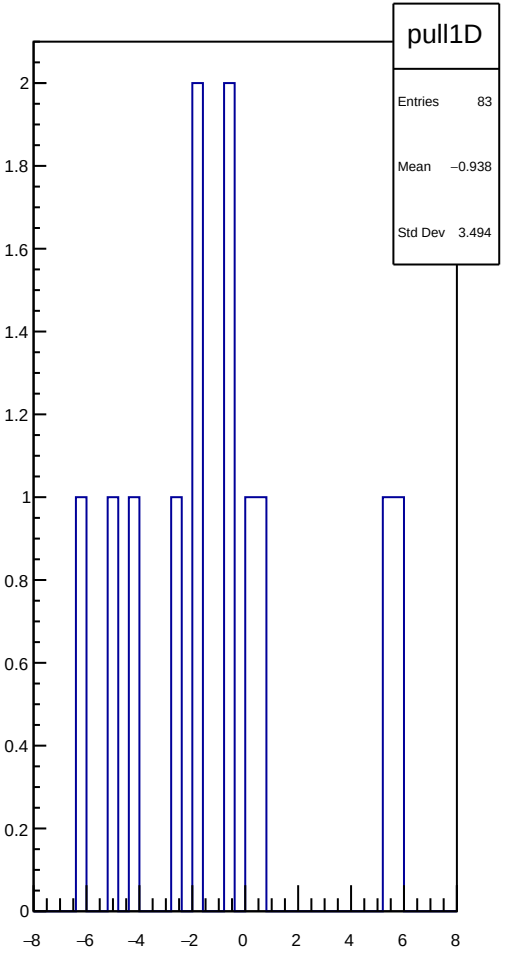

yield_bpm0r03WS_rms vs run
χ² / ndf 1.086e+04 / 82
p0 281.1 ± 0.2222
380
360
340
320
300
280
260
240

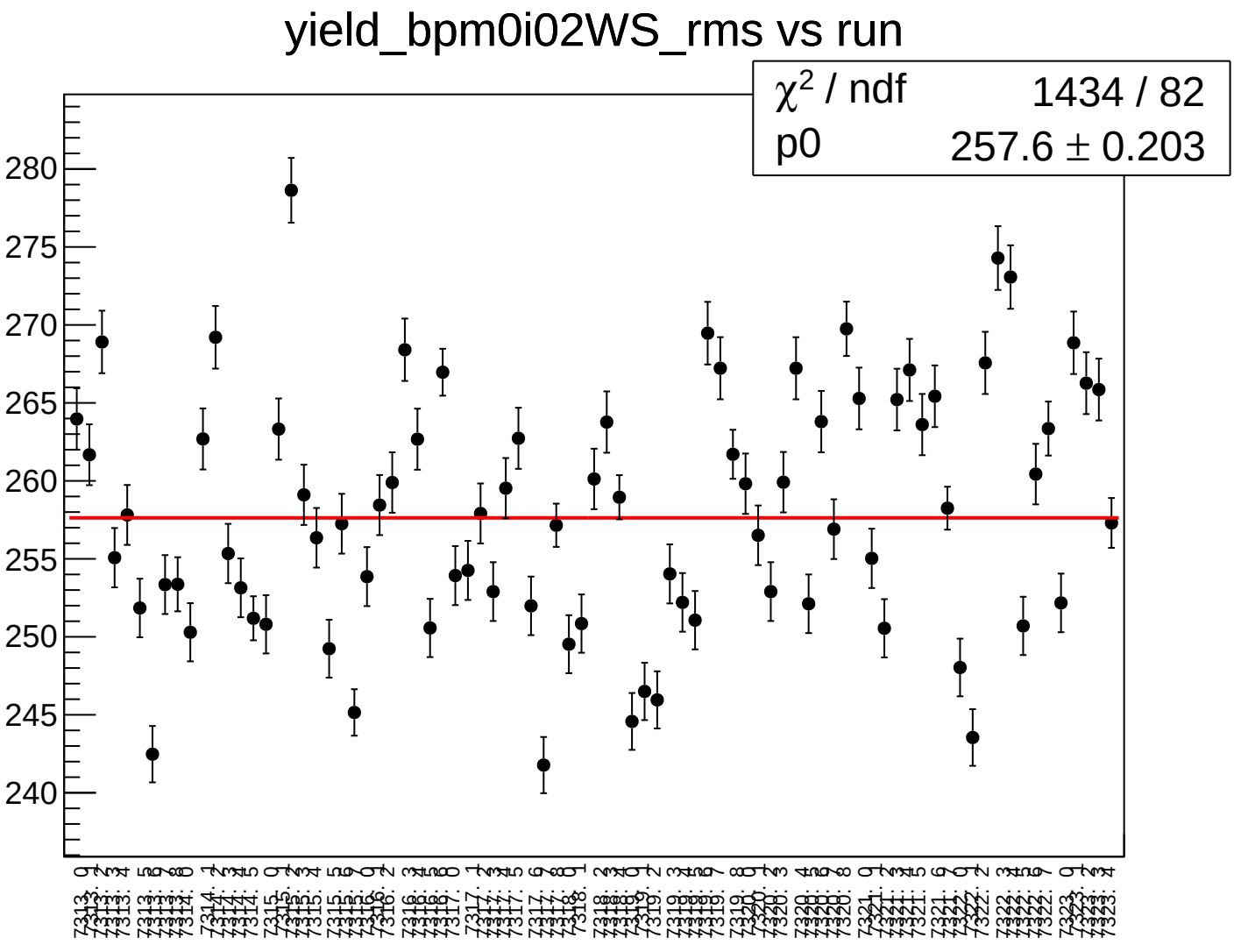

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.015e+04 / 82
p0 1.355e+05 ± 0.4198
135.6
135.55
135.5
135.45
135.4
pull
Entries 83
Mean −777.1
Std Dev 0
20
10
0
−10
−20
−30

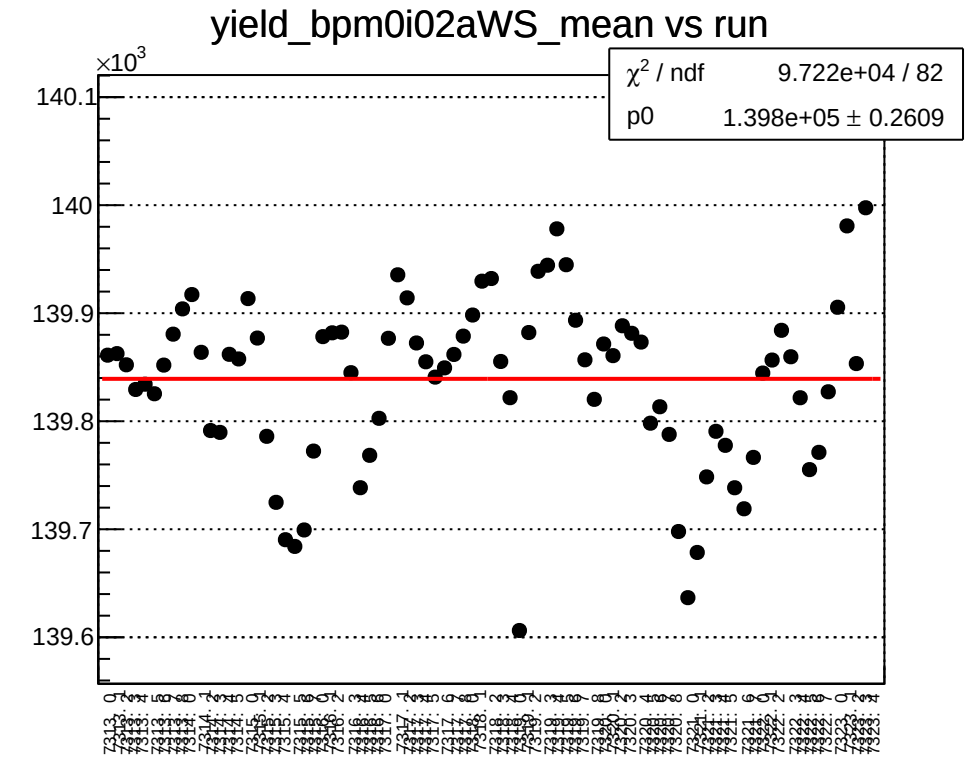

pull1D
Entries 83
Mean 0.03311
Std Dev 4.369
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

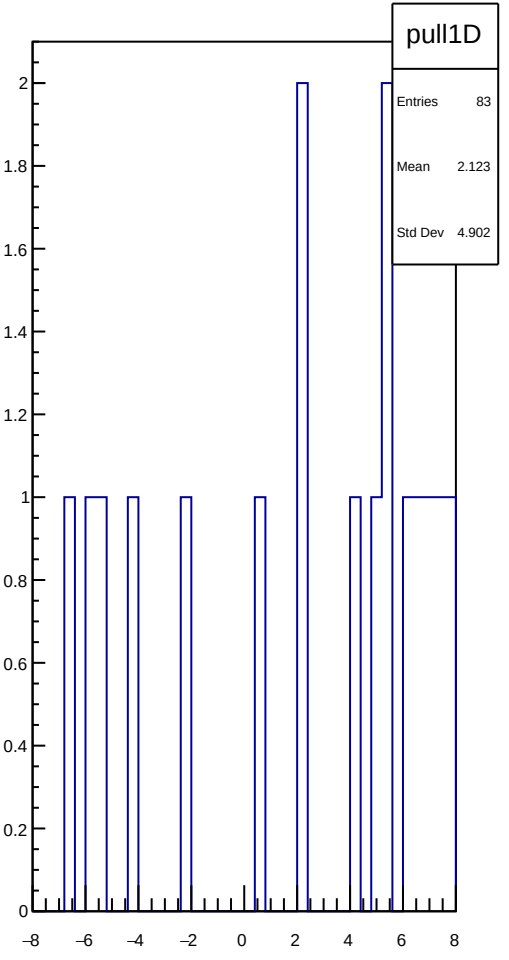

yield_bpm0r05WS_rms vs run
χ² / ndf 1218 / 82
p0 376.7 ± 0.2969
410
400
390
380
370
360
350

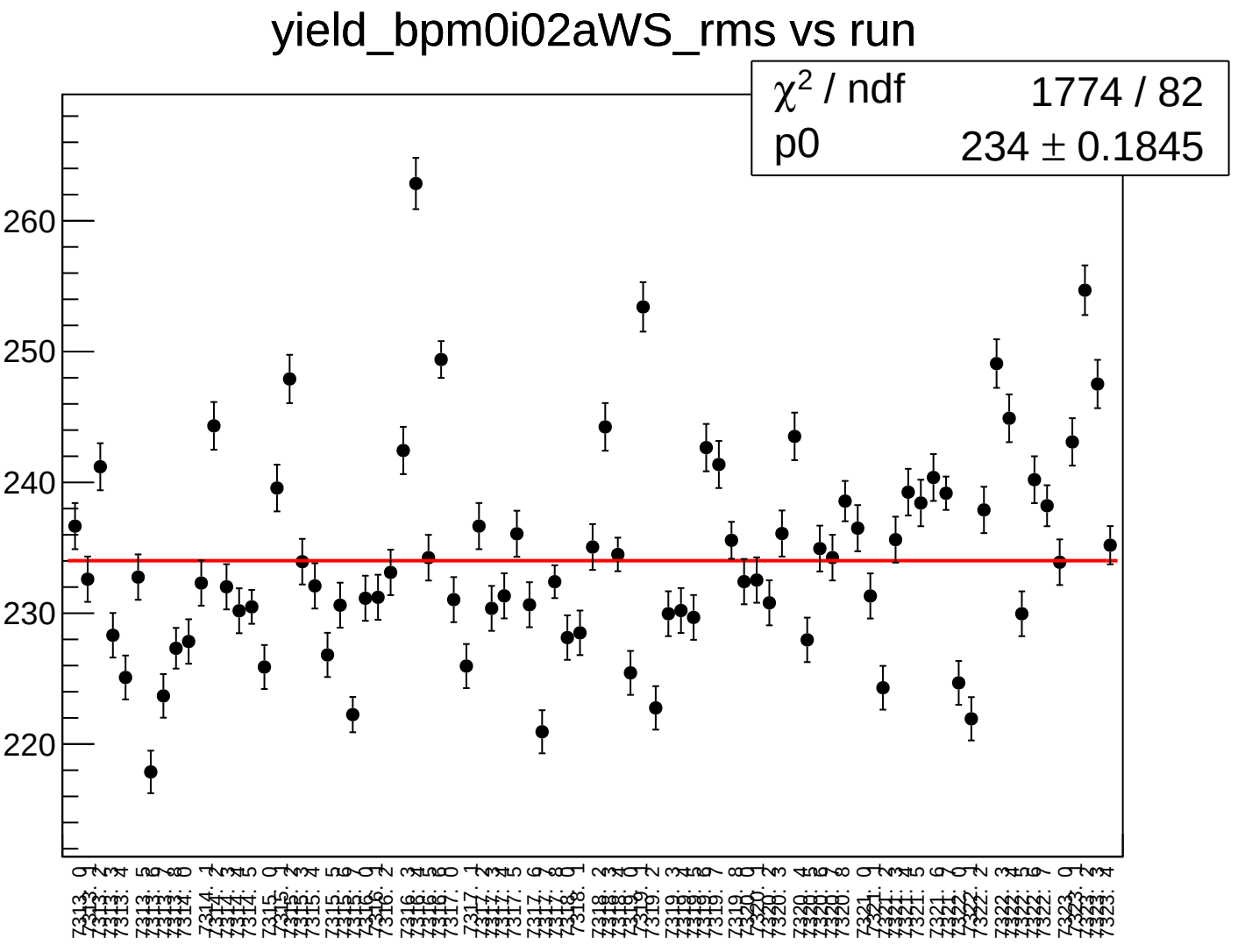

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.333e+05 / 82
p0 1.449e+05 ± 0.2871
145.1
145
144.9
144.8
144.7
pull
Entries 83
Mean 4.197e+04
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

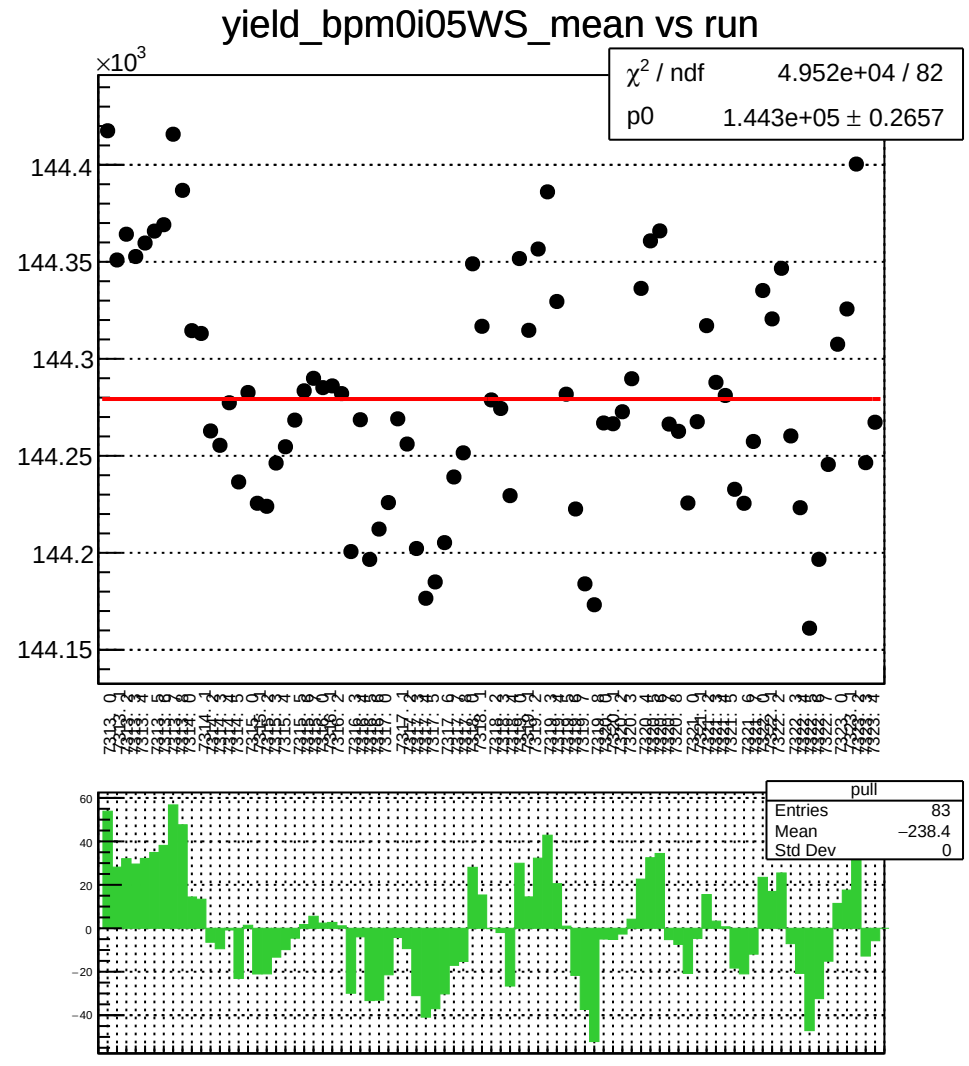

pull1D
Entries 83
Mean −0.938
Std Dev 3.494
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

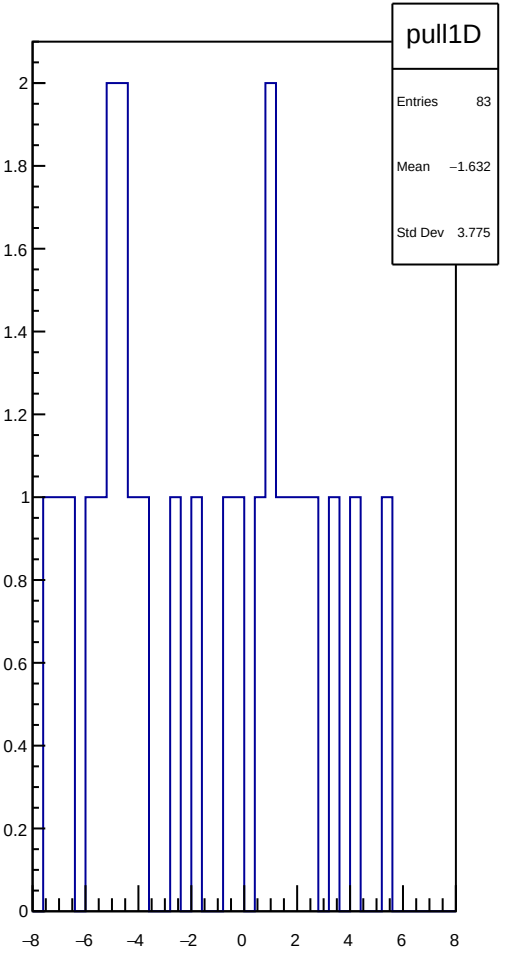

yield_bpm0i02WS_rms vs run
χ² / ndf 1434 / 82
p0 257.6 ± 0.203
280
275
270
265
260
255
250
245
240

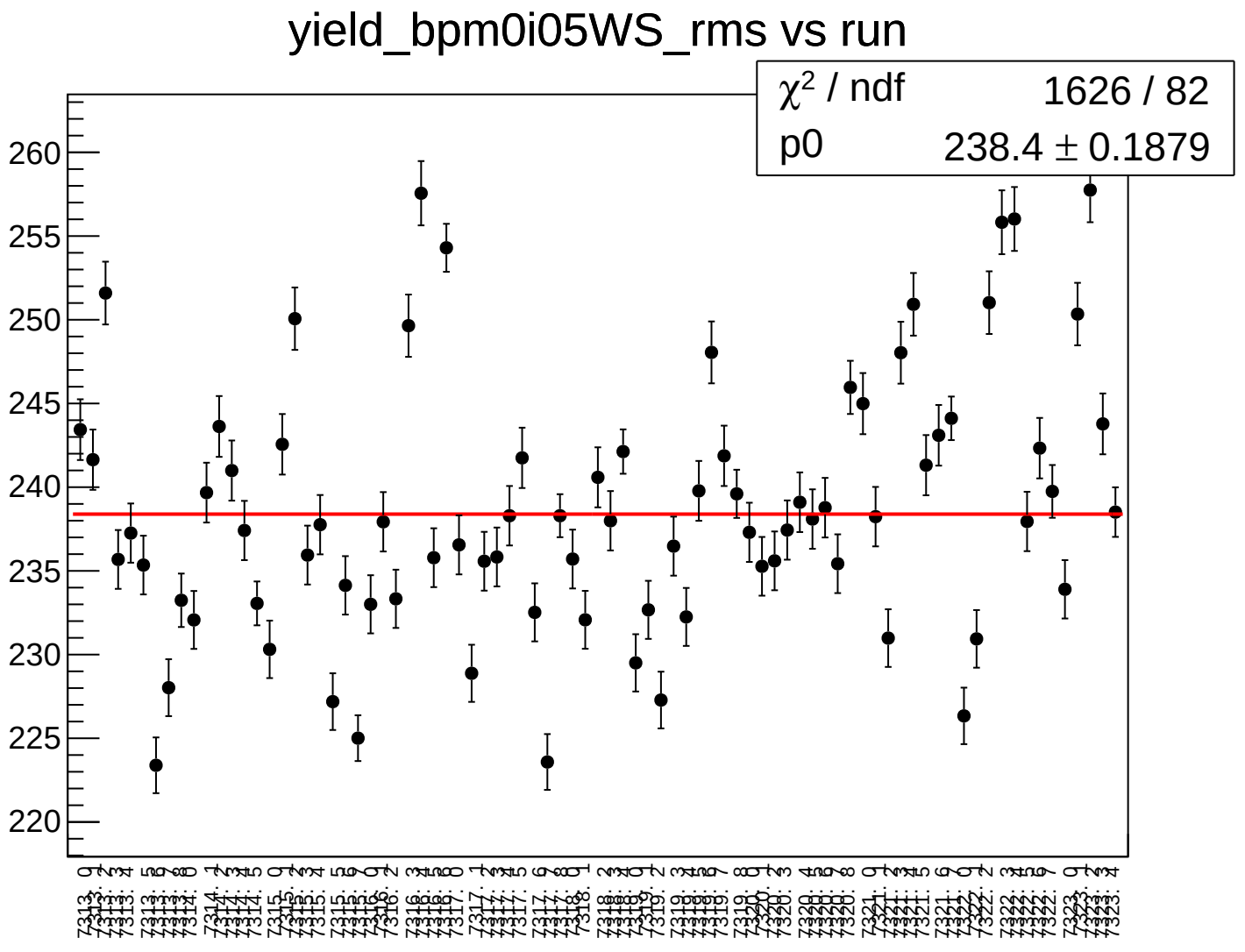

yield_bpm0i02aWS_mean vs run
×10^3
140.1
140
139.9
139.8
139.7
139.6
χ² / ndf 9.722e+04 / 82
p0 1.398e+05 ± 0.2609
pull
Entries 83
Mean 309.3
Std Dev 0
100
50
0
−50
−100

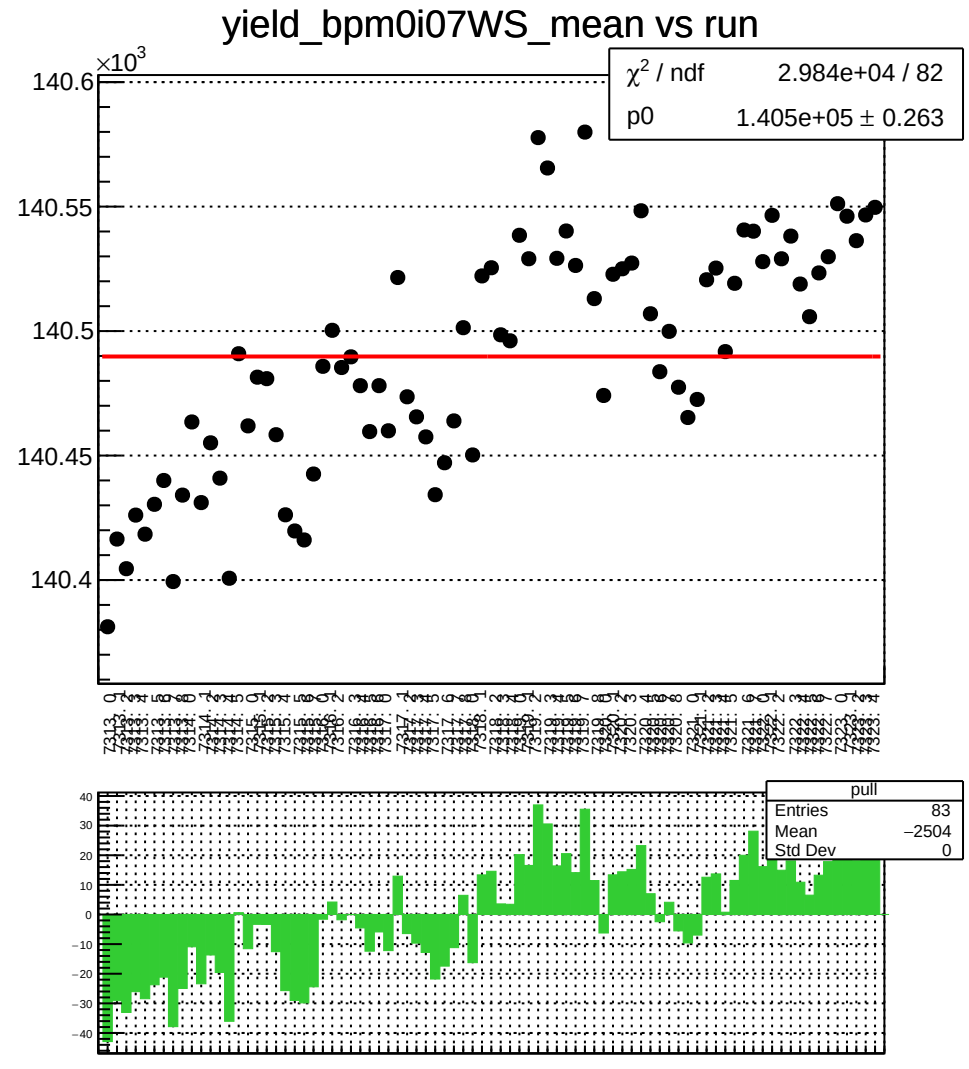

pull1D
Entries 83
Mean 2.123
Std Dev 4.902
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

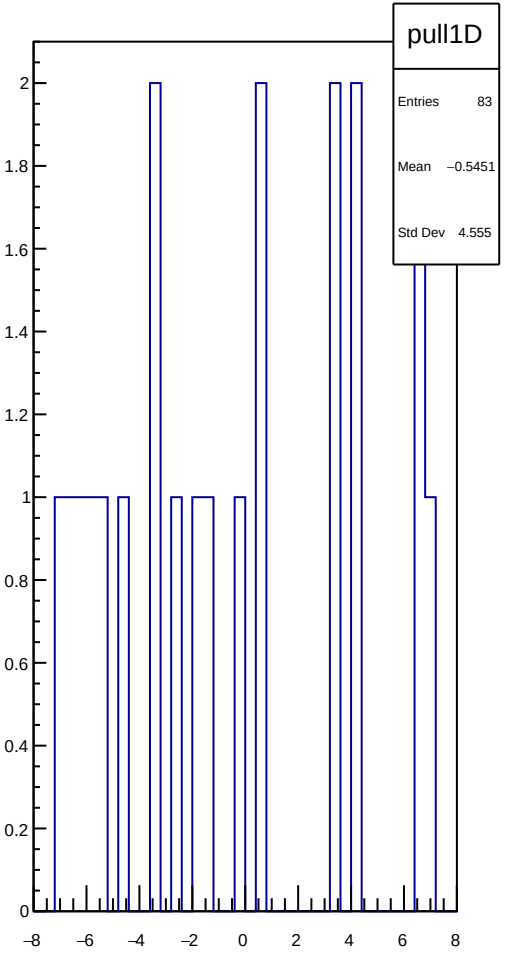

yield_bpm0i02aWS_rms vs run
χ² / ndf 1774 / 82
p0 234 ± 0.1845
260
250
240
230
220

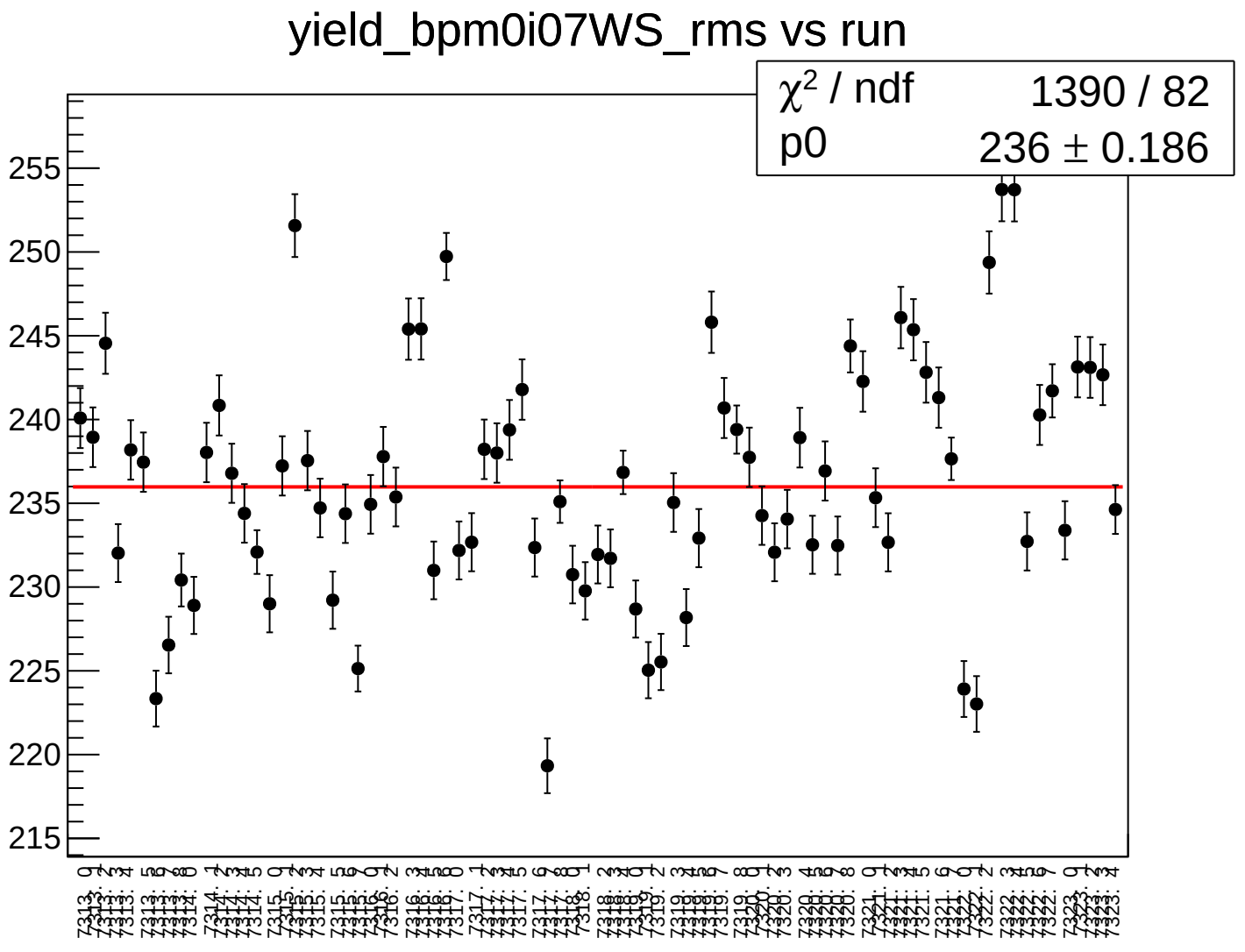

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.952e+04 / 82
p0 1.443e+05 ± 0.2657
144.4
144.35
144.3
144.25
144.2
144.15
pull
Entries 83
Mean −238.4
Std Dev 0
60
40
20
0
−20
−40

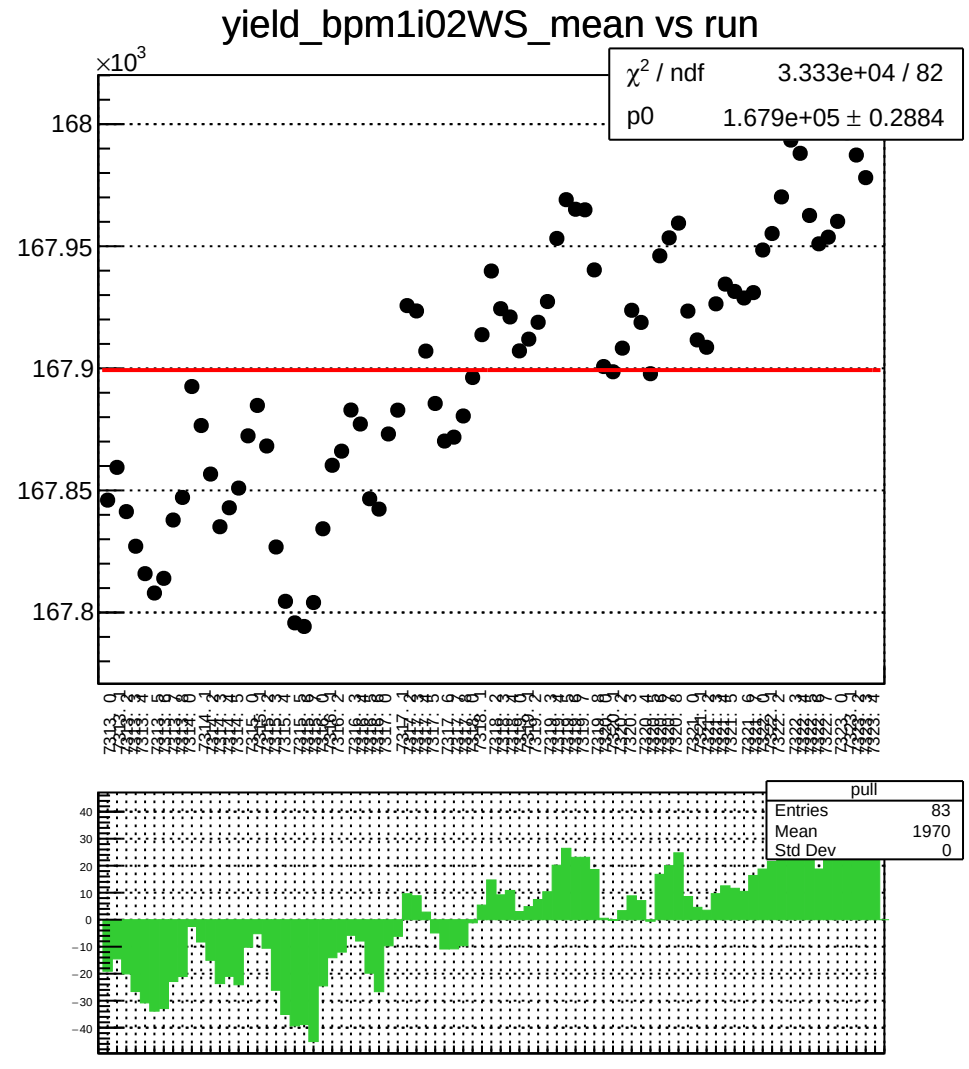

pull1D
Entries 83
Mean −1.632
Std Dev 3.775
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

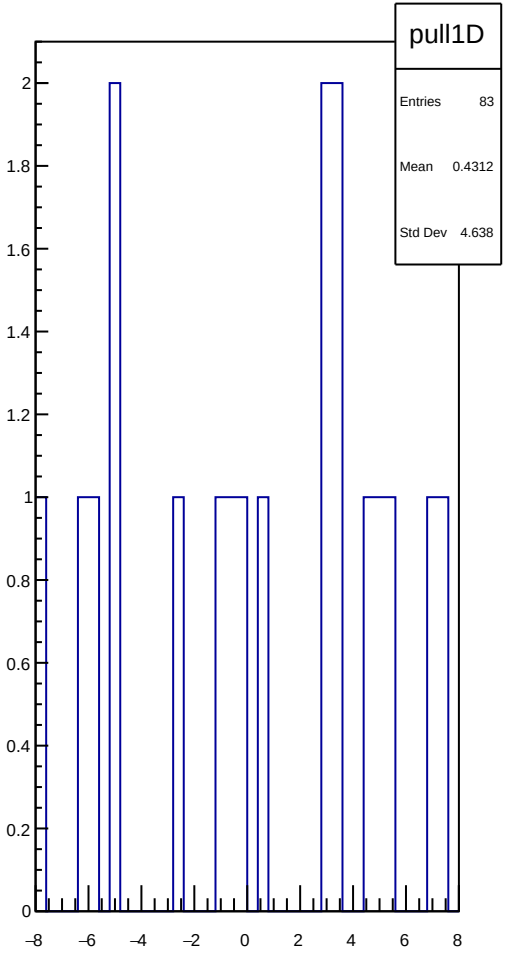

yield_bpm0i05WS_rms vs run
χ² / ndf 1626 / 82
p0 238.4 ± 0.1879
260
255
250
245
240
235
230
225
220

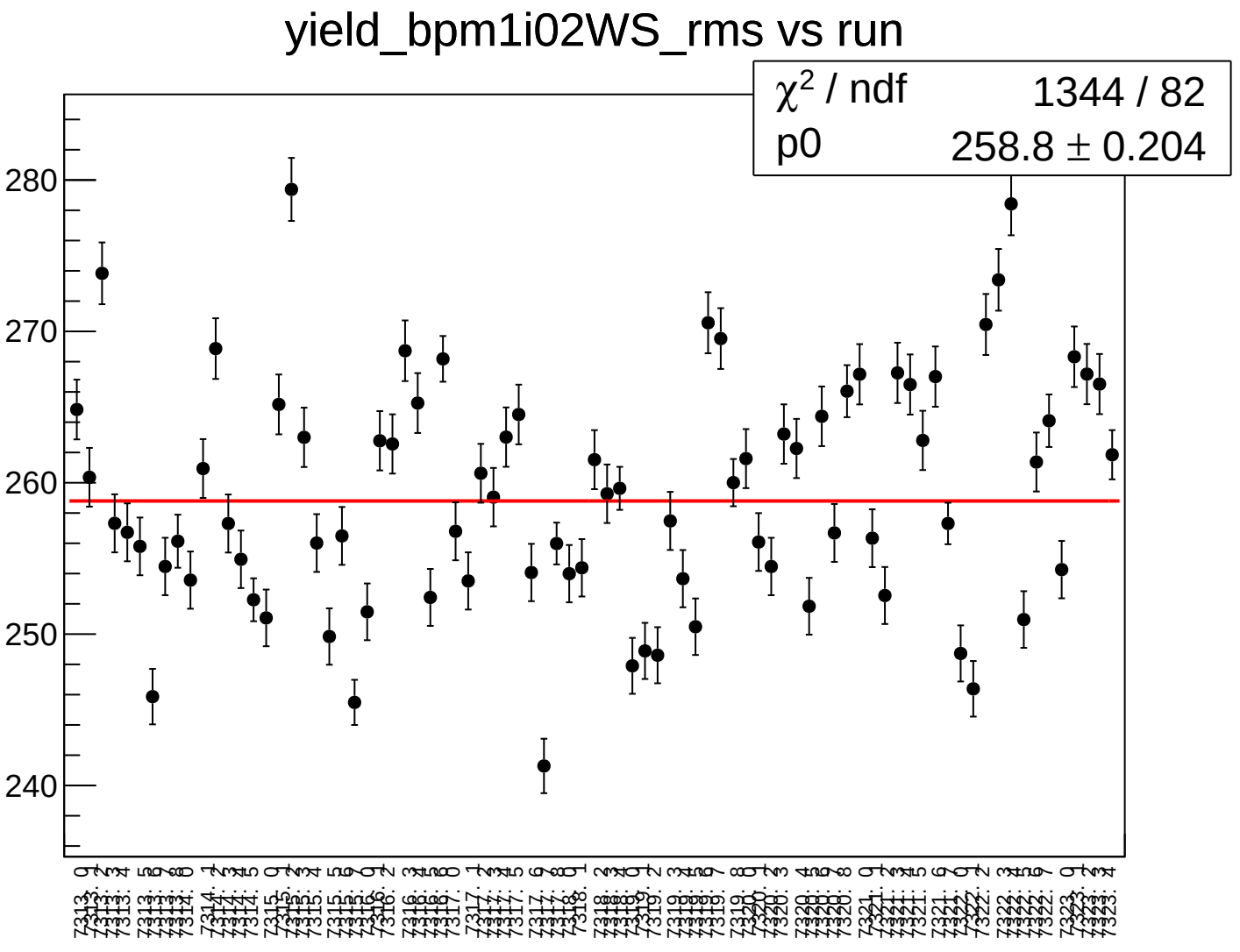

yield_bpm0i07WS_mean vs run
×10^3
140.6
140.55
140.5
140.45
140.4
χ² / ndf 2.984e+04 / 82
p0 1.405e+05 ± 0.263
pull
Entries 83
Mean −2504
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

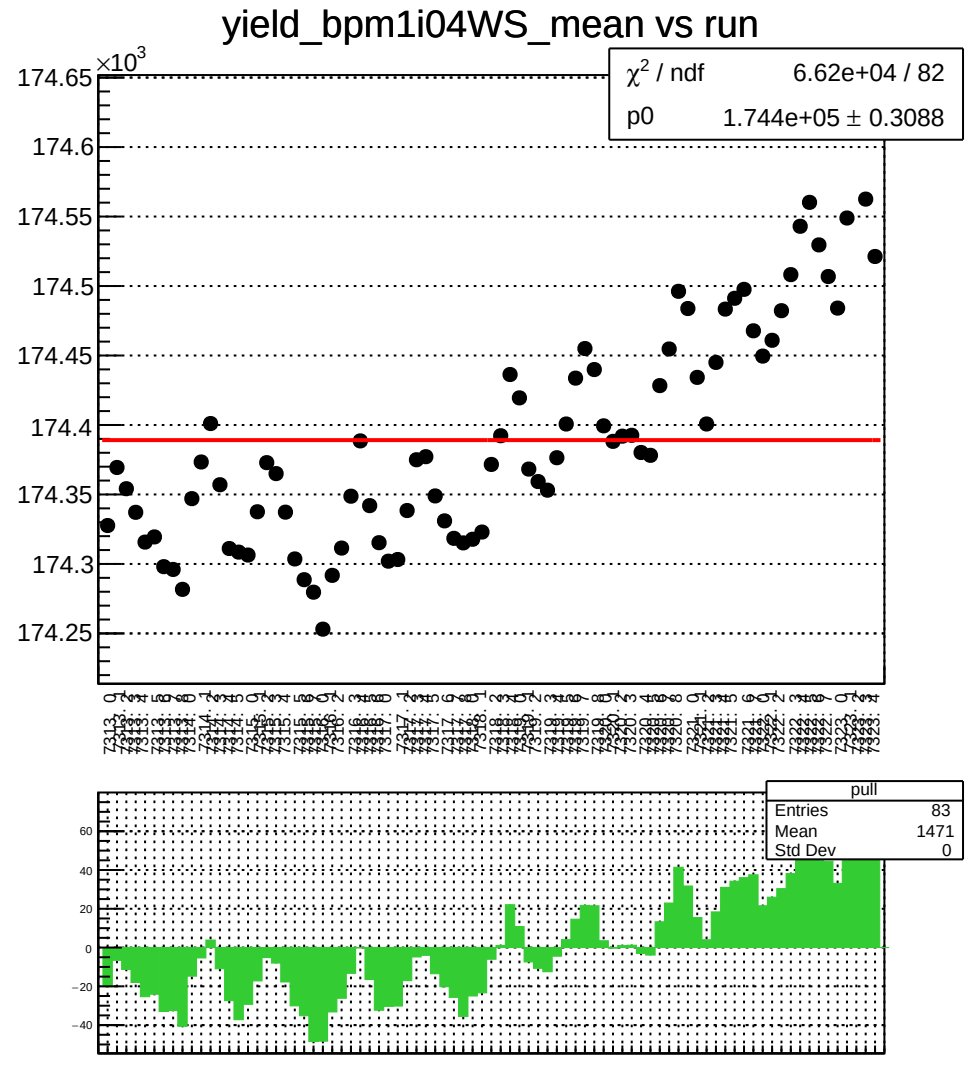

pull1D
Entries 83
Mean −0.5451
Std Dev 4.555
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

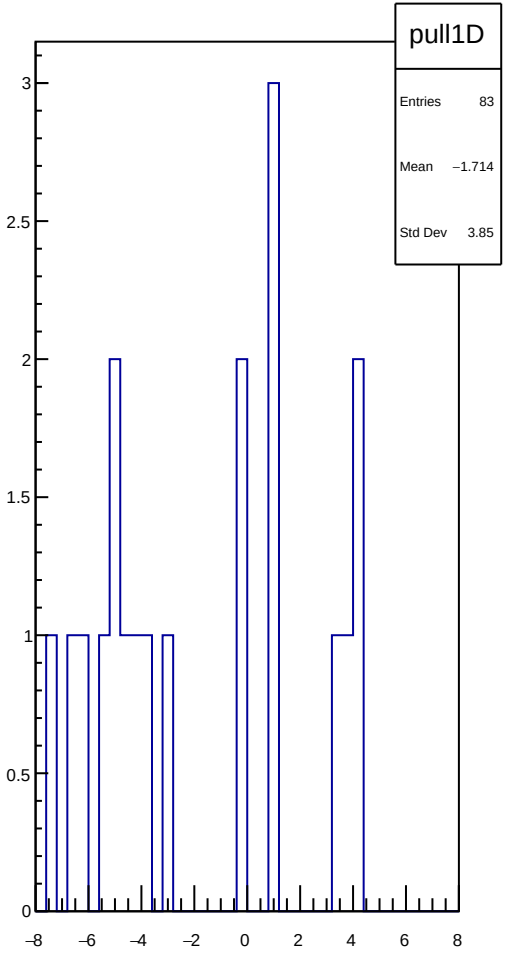

yield_bpm0i07WS_rms vs run
χ² / ndf 1390 / 82
p0 236 ± 0.186
255
250
245
240
235
230
225
220
215

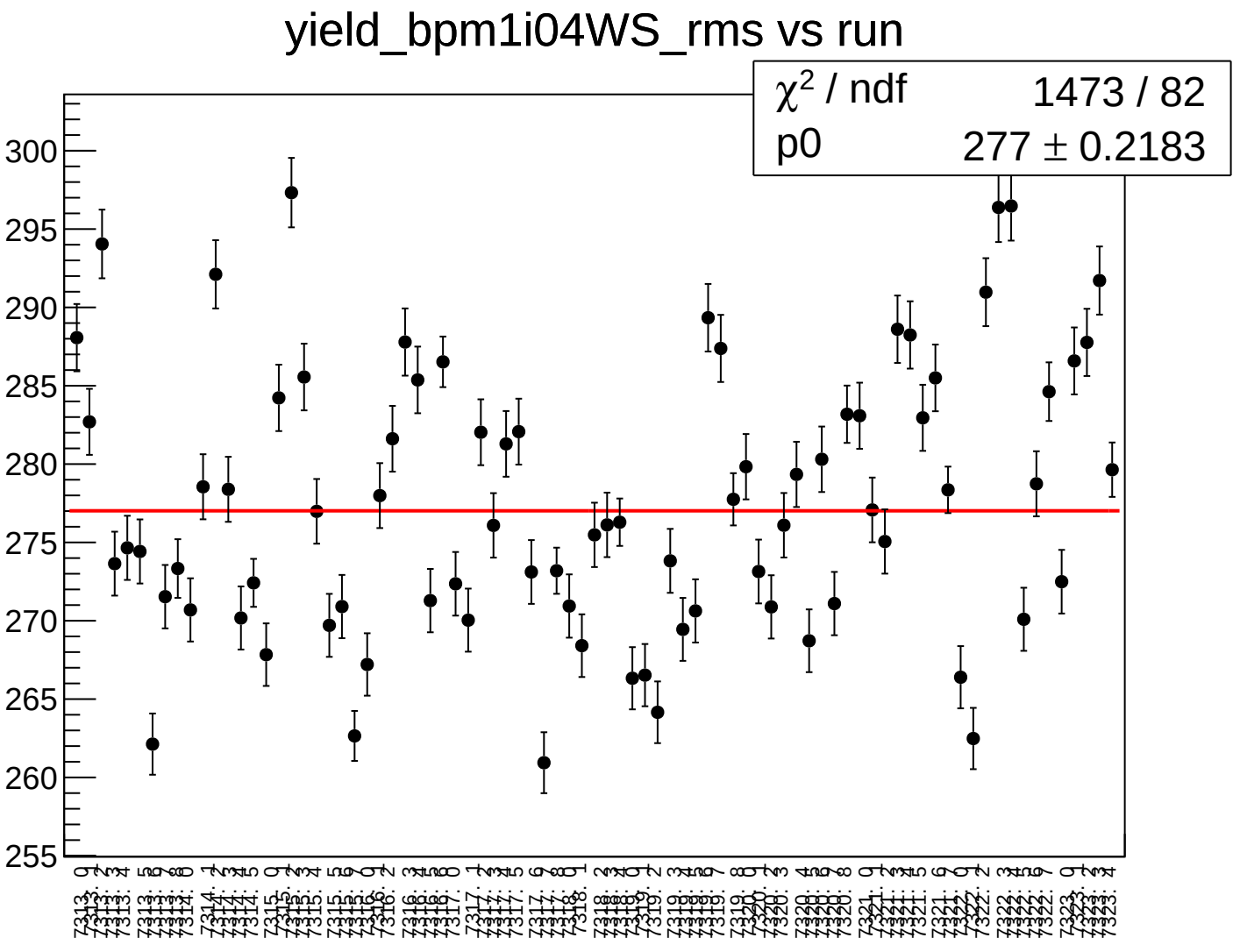

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.333e+04 / 82
p0 1.679e+05 ± 0.2884
168
167.95
167.9
167.85
167.8
pull
Entries 83
Mean 1970
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

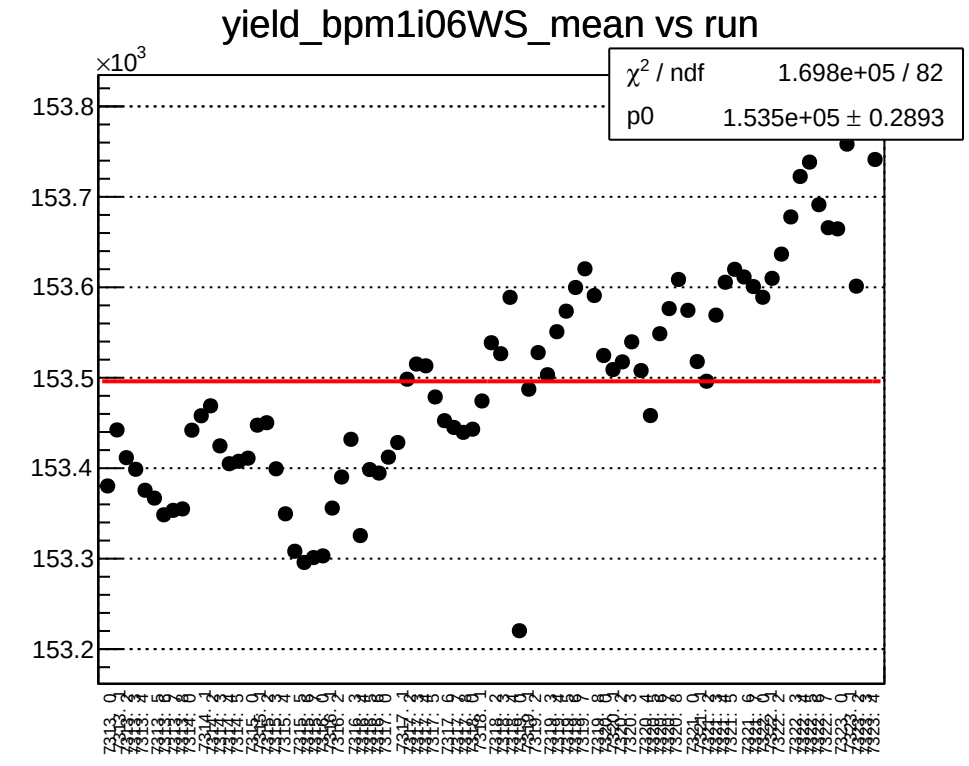

pull1D
Entries 83
Mean 0.4312
Std Dev 4.638
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

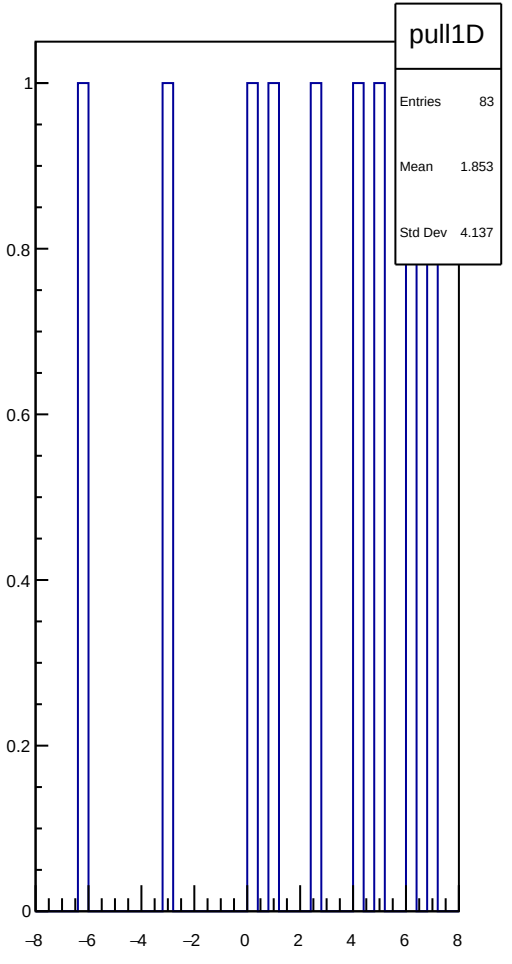

yield_bpm1i02WS_rms vs run
χ² / ndf 1344 / 82
p0 258.8 ± 0.204
280
270
260
250
240

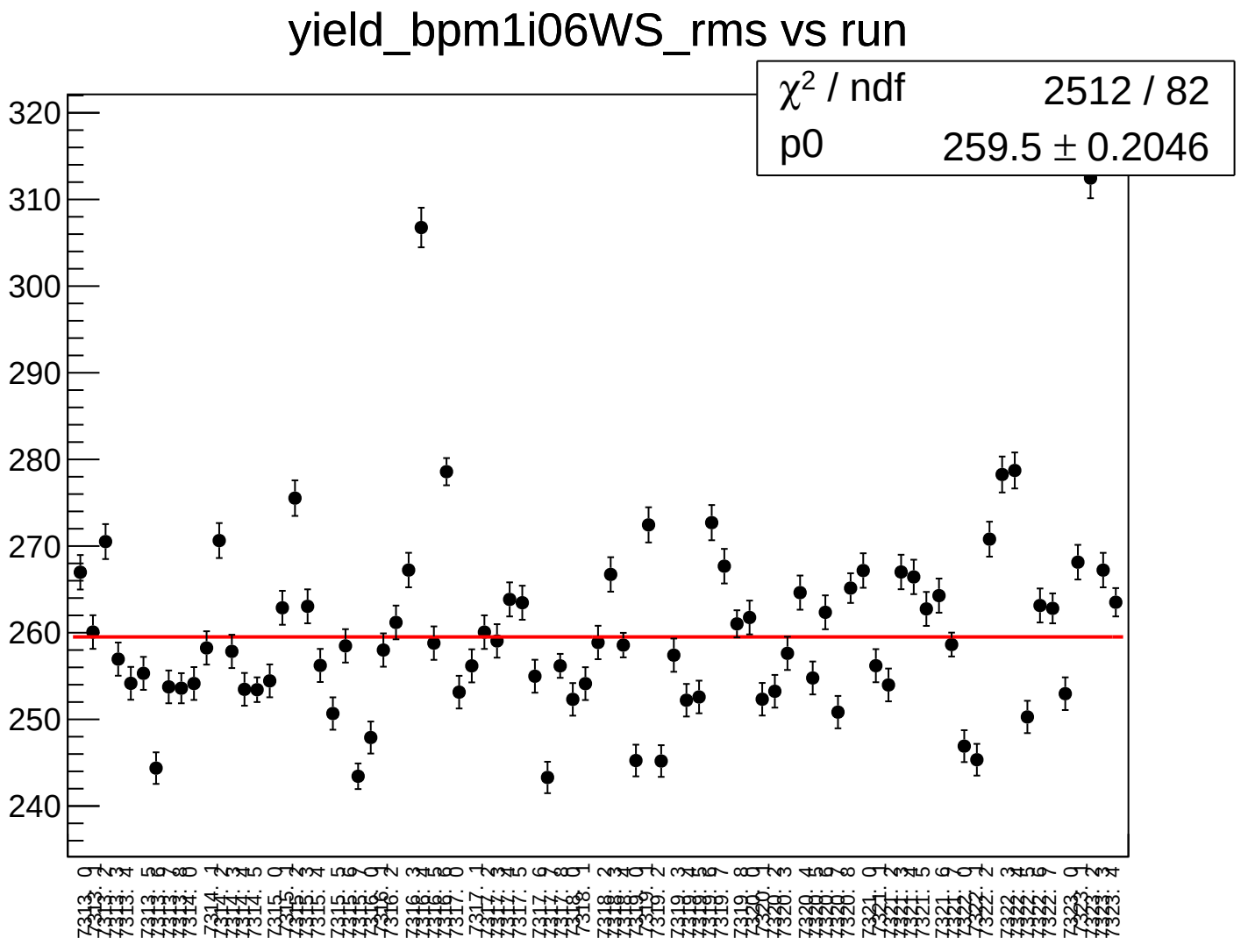

yield_bpm1i04WS_mean vs run
χ² / ndf 6.62e+04 / 82
p0 1.744e+05 ± 0.3088
×10³
174.65
174.6
174.55
174.5
174.45
174.4
174.35
174.3
174.25
pull
Entries 83
Mean 1471
Std Dev 0
60
40
20
0
−20
−40

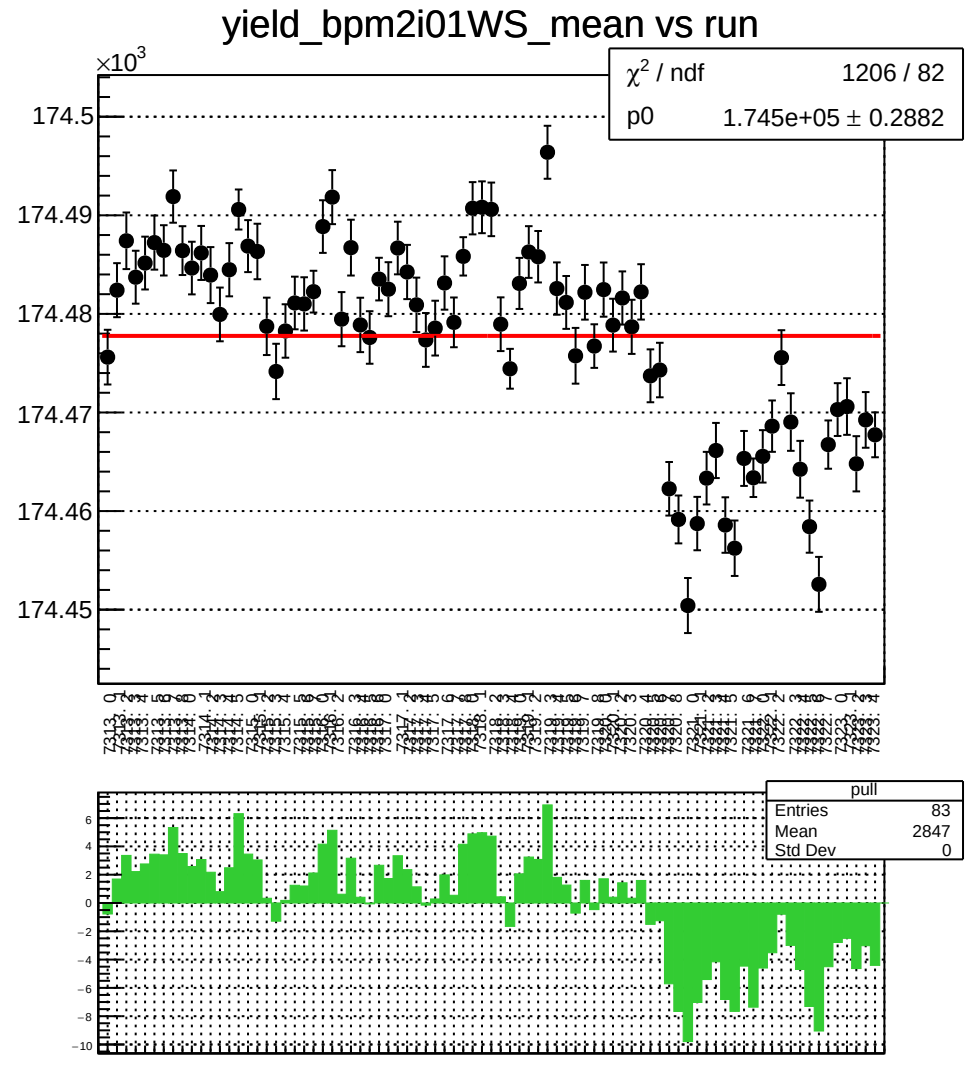

pull1D
Entries 83
Mean −1.714
Std Dev 3.85
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

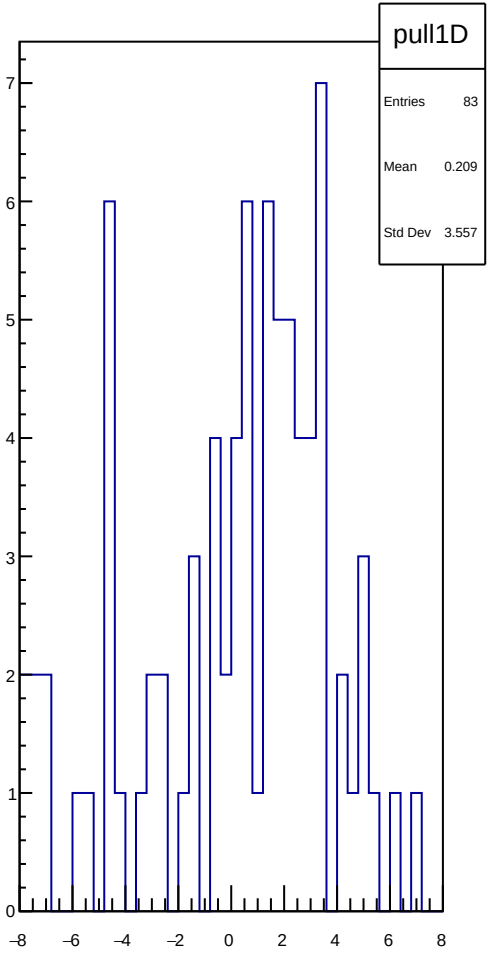

yield_bpm1i04WS_rms vs run
χ² / ndf 1473 / 82
p0 277 ± 0.2183
300
295
290
285
280
275
270
265
260
255

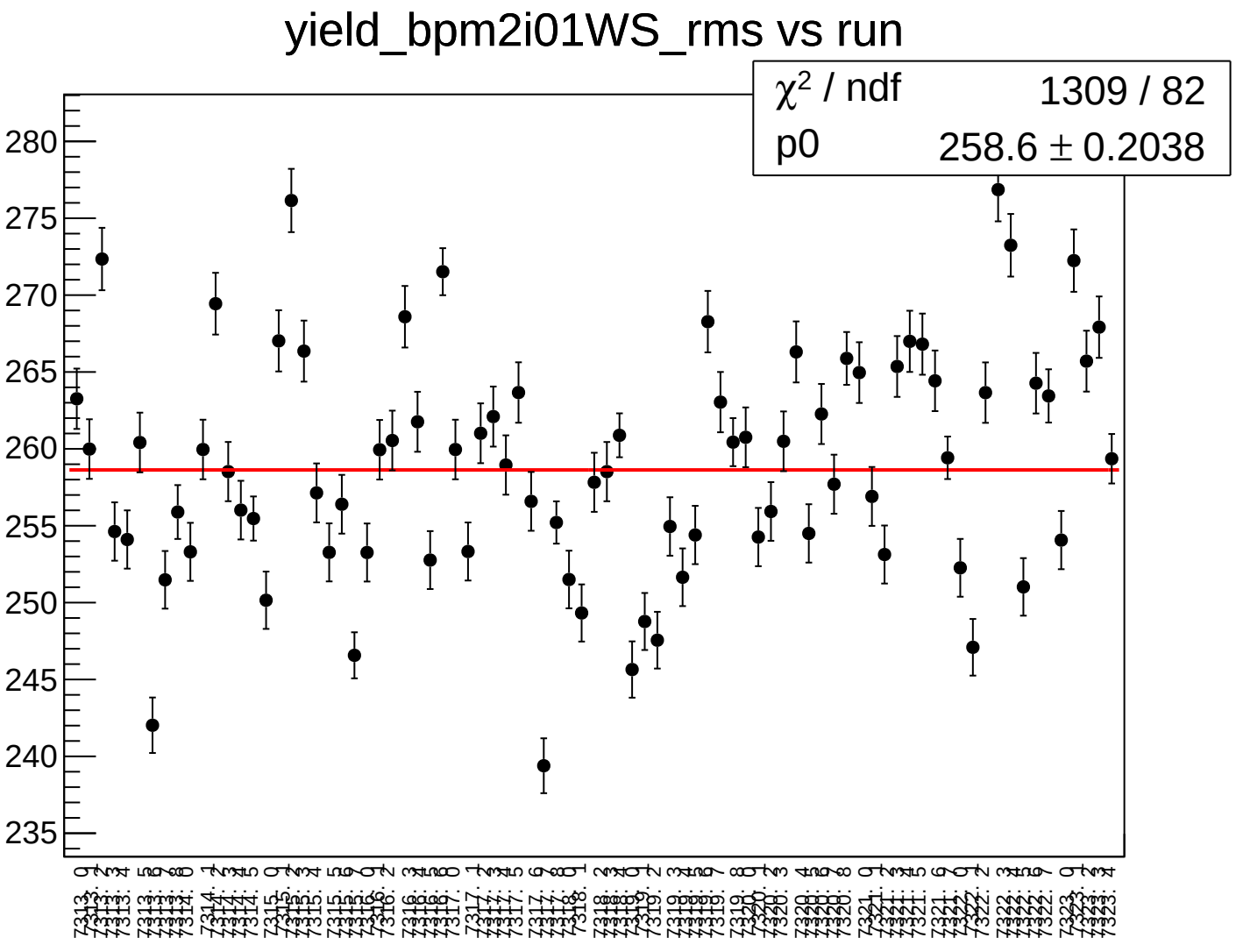

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.698e+05 / 82
p0 1.535e+05 ± 0.2893
153.8
153.7
153.6
153.5
153.4
153.3
153.2
pull
Entries 83
Mean 3476
Std Dev 0
100
50
0
−50
−100

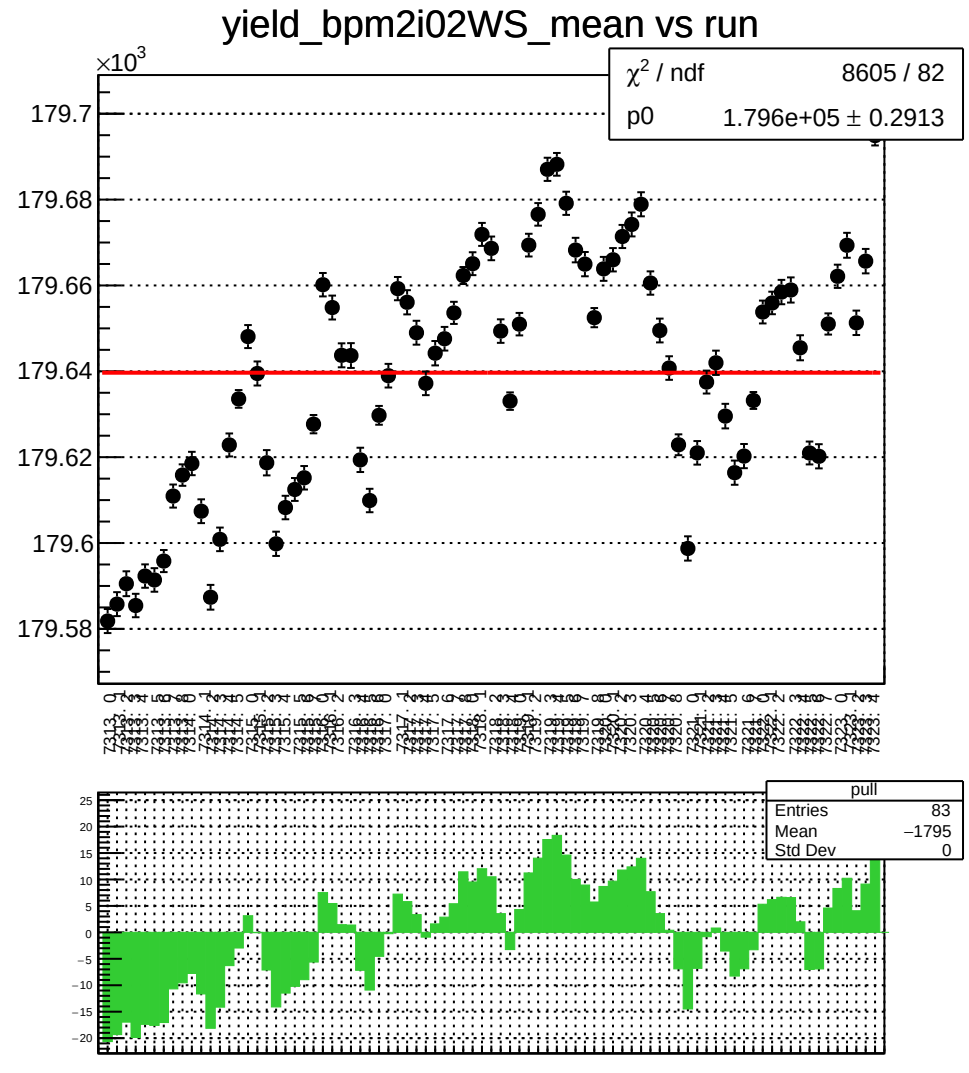

pull1D
Entries 83
Mean 1.853
Std Dev 4.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

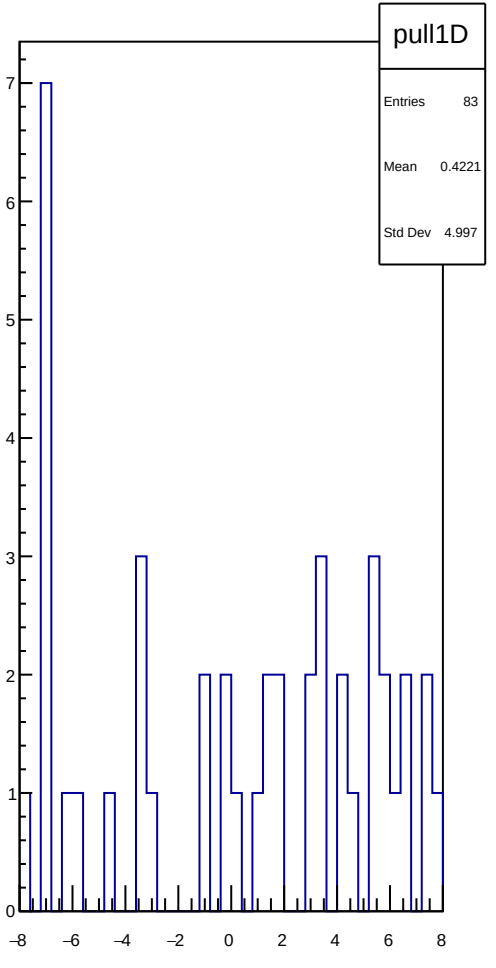

yield_bpm1i06WS_rms vs run
χ² / ndf 2512 / 82
p0 259.5 ± 0.2046
320
310
300
290
280
270
260
250
240

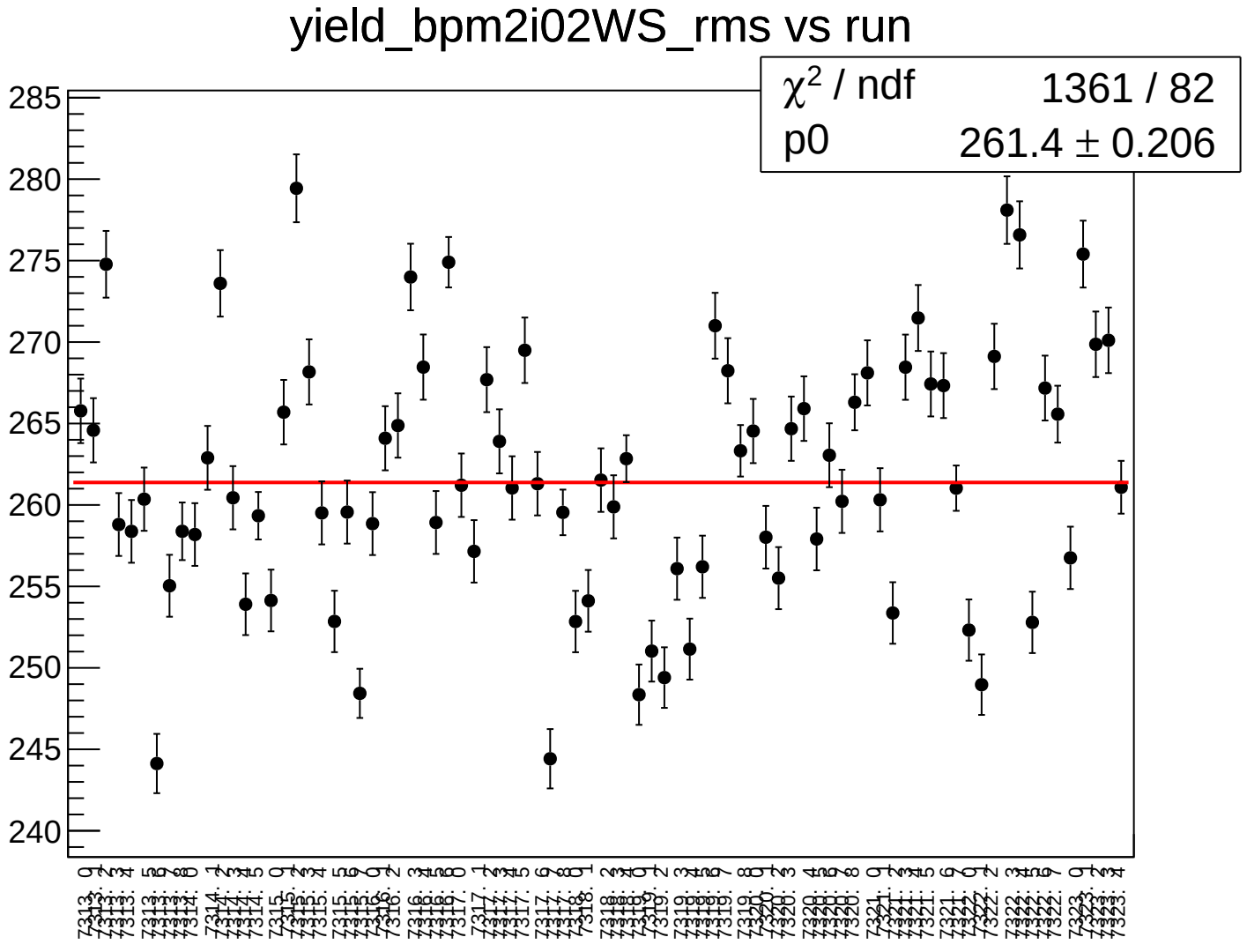

yield_bpm2i01WS_mean vs run
×10^3
174.5
174.49
174.48
174.47
174.46
174.45
χ² / ndf 1206 / 82
p0 1.745e+05 ± 0.2882
pull
Entries 83
Mean 2847
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

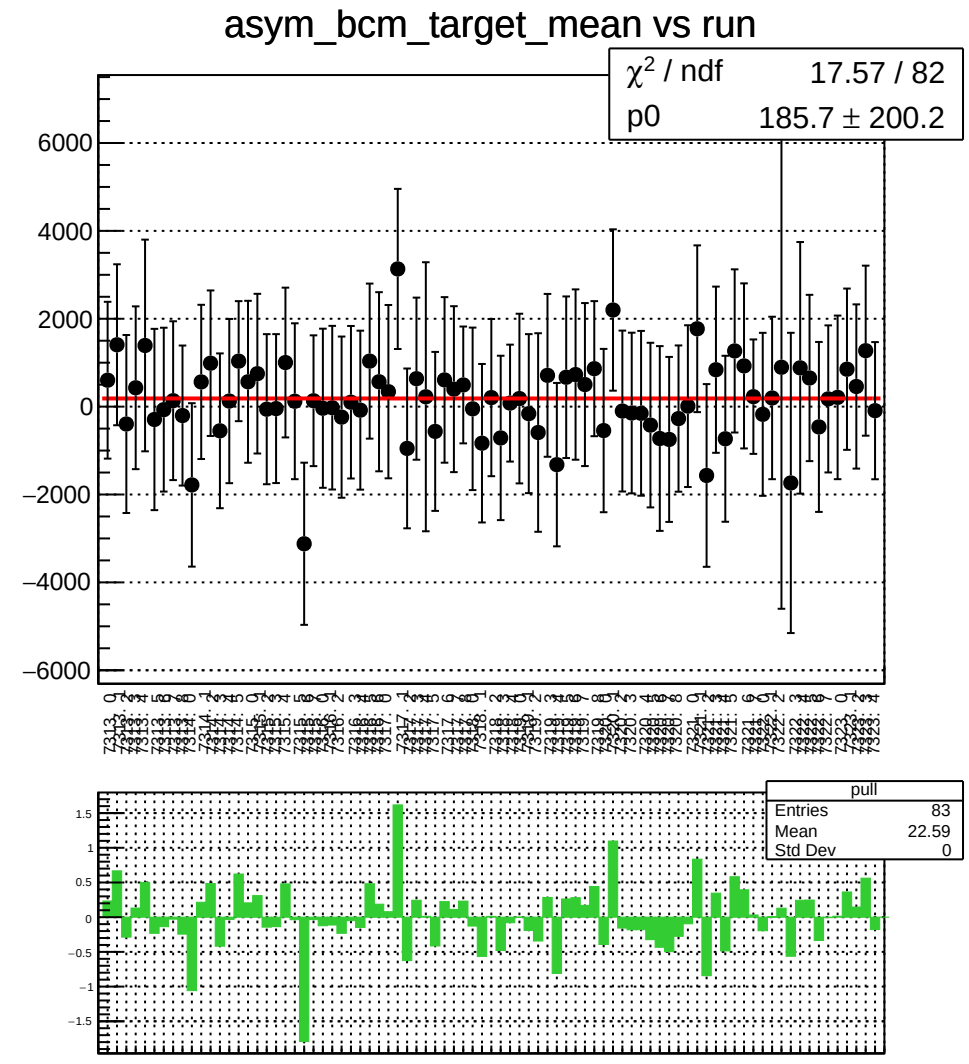

pull1D
Entries 83
Mean 0.209
Std Dev 3.557
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

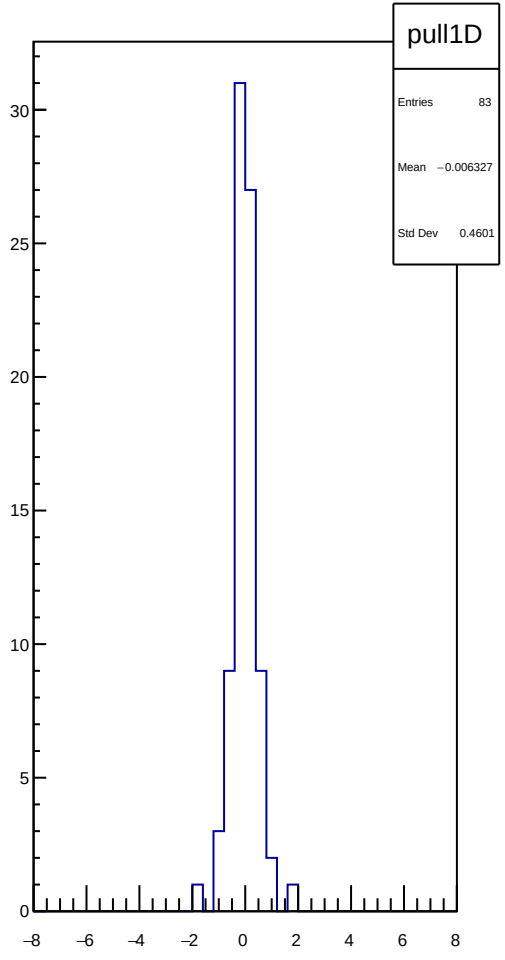

yield_bpm2i01WS_rms vs run
χ² / ndf 1309 / 82
p0 258.6 ± 0.2038
280
275
270
265
260
255
250
245
240
235

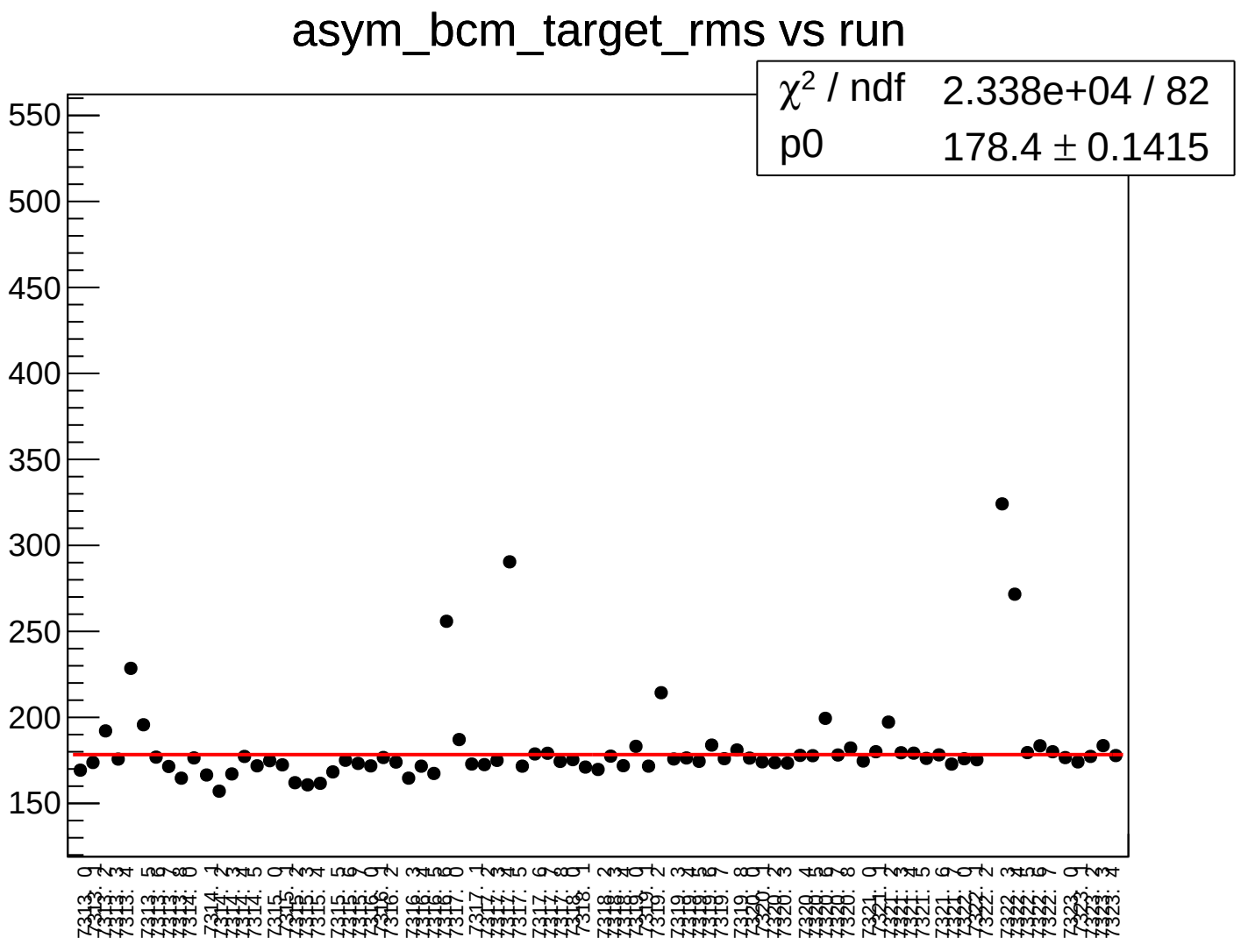

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 8605 / 82
p0 1.796e+05 ± 0.2913
179.7
179.68
179.66
179.64
179.62
179.6
179.58
pull
Entries 83
Mean −1795
Std Dev 0
25
20
15
10
5
0
−5
−10
−15
−20

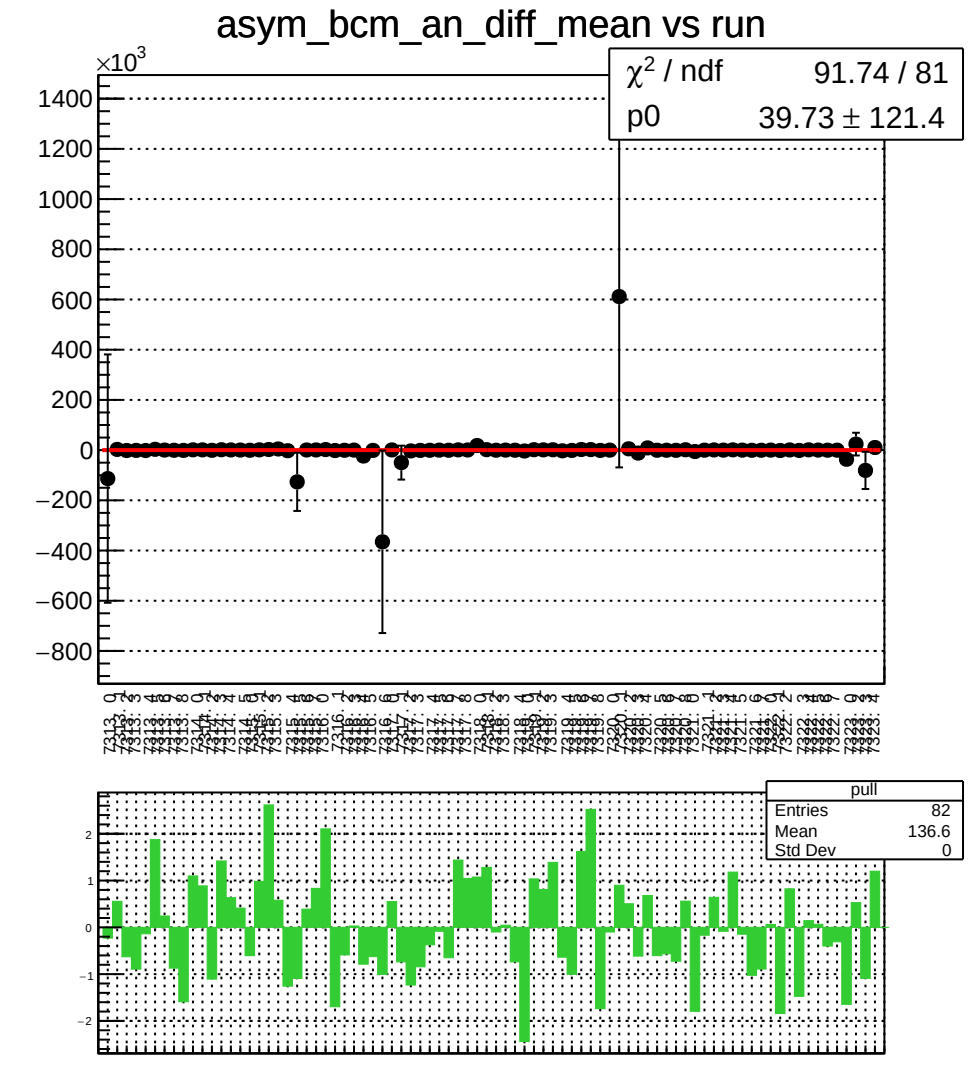

pull1D
Entries 83
Mean 0.4221
Std Dev 4.997
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

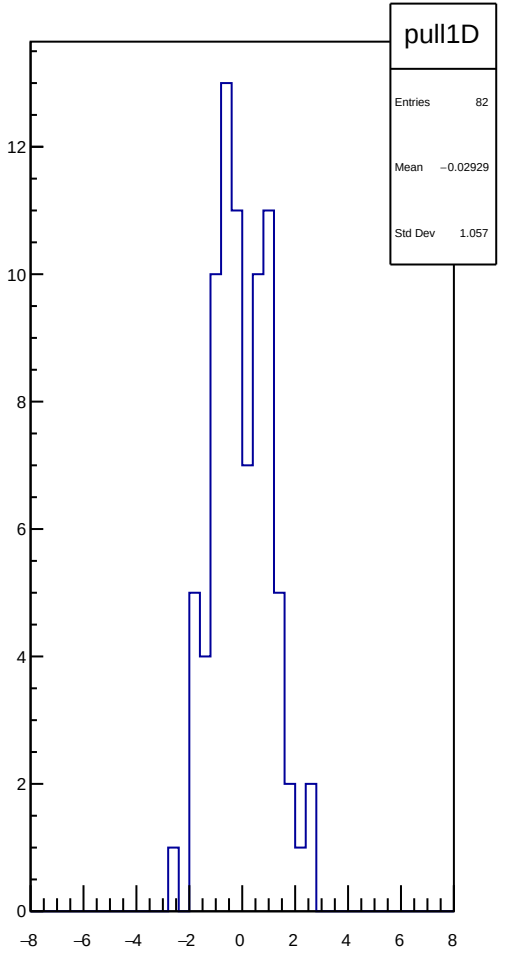

yield_bpm2i02WS_rms vs run
χ² / ndf 1361 / 82
p0 261.4 ± 0.206
285
280
275
270
265
260
255
250
245
240

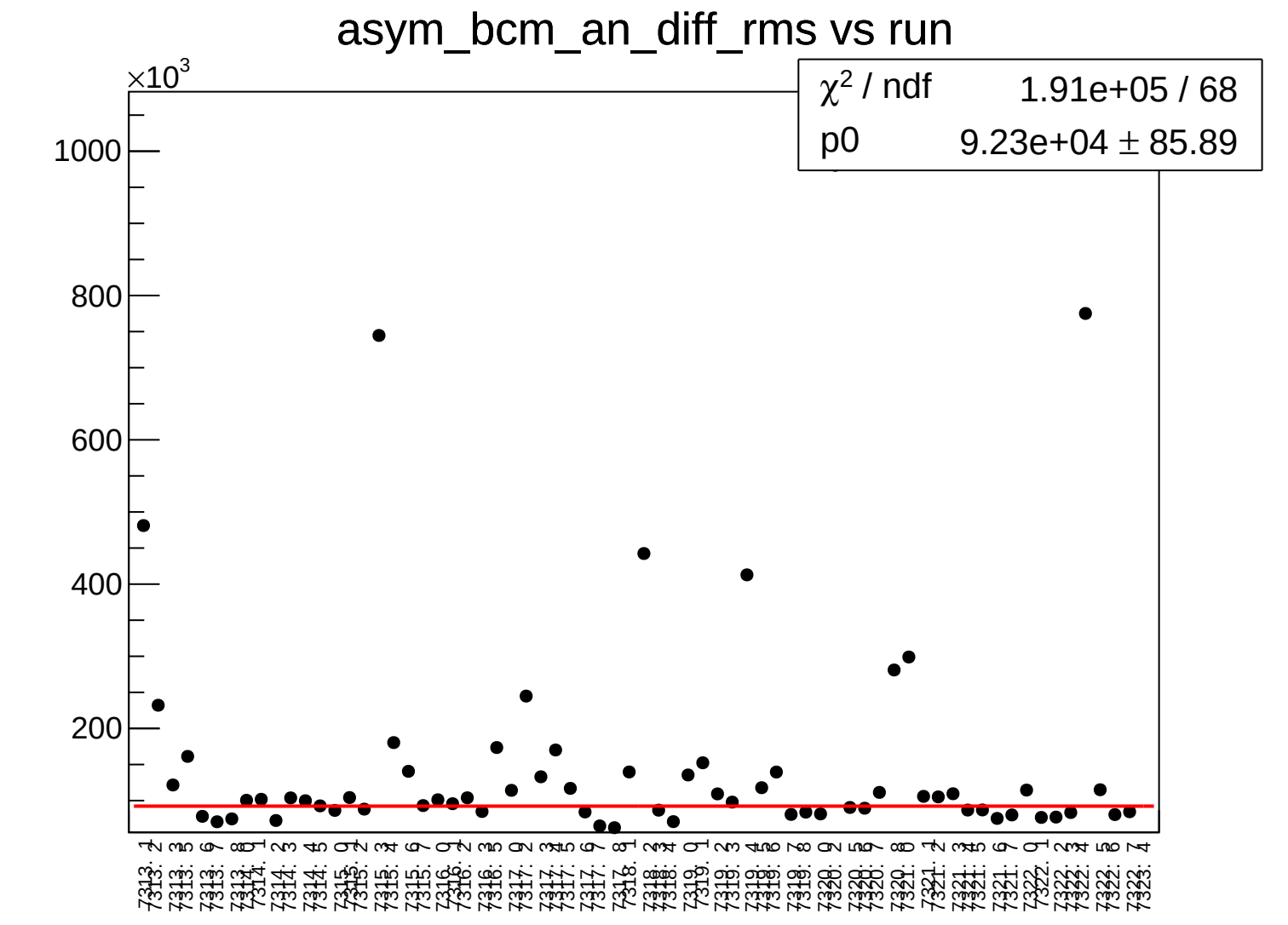

asym_bcm_target_mean vs run
χ² / ndf 17.57 / 82
p0 185.7 ± 200.2
pull
Entries 83
Mean 22.59
Std Dev 0

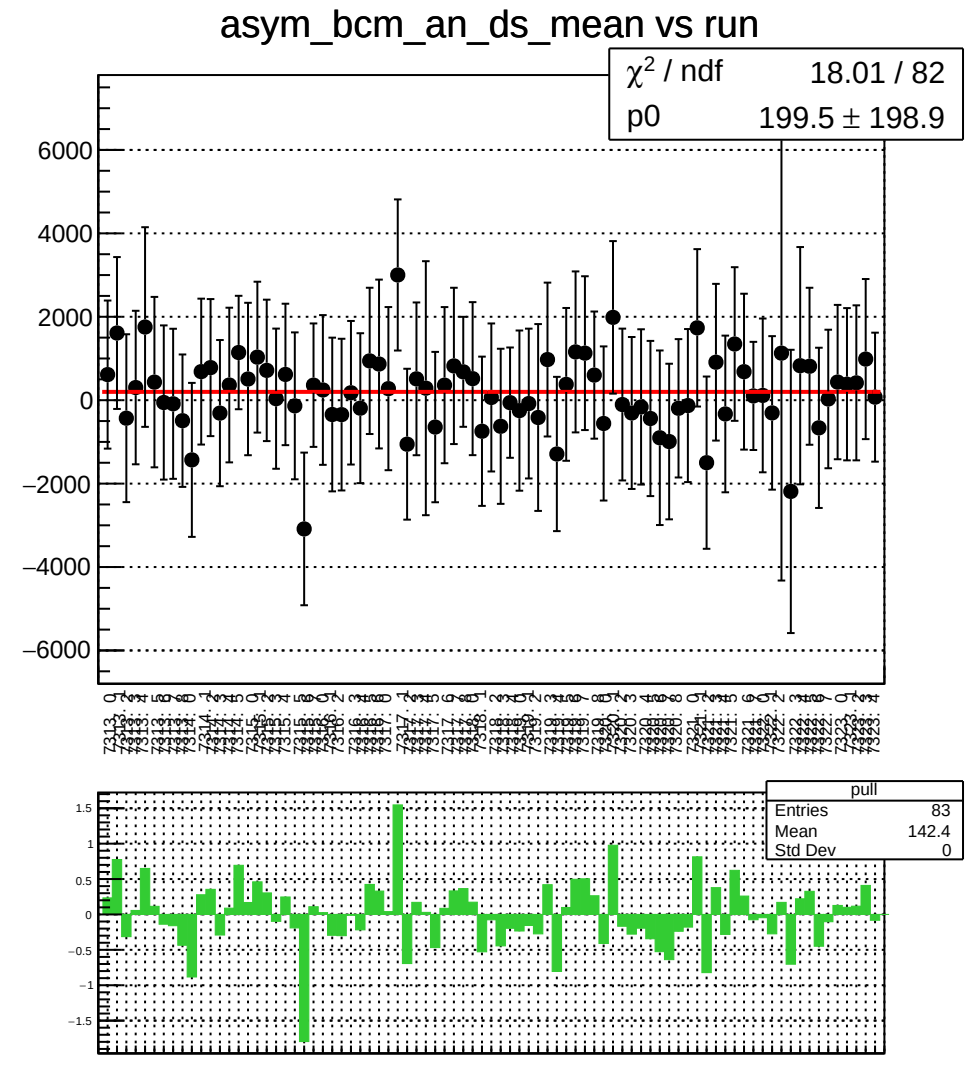

pull1D
Entries 83
Mean −0.006327
Std Dev 0.4601

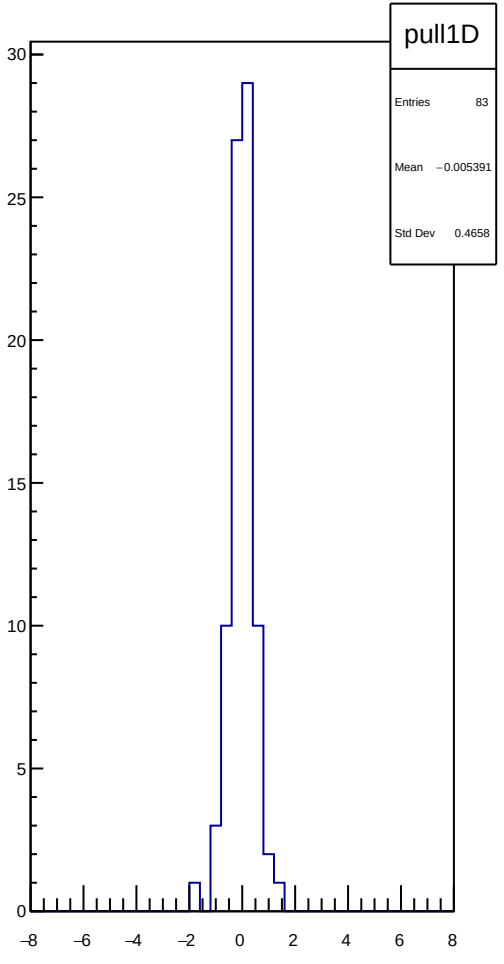

asym_bcm_target_rms vs run
χ² / ndf 2.338e+04 / 82
p0 178.4 ± 0.1415
550
500
450
400
350
300
250
200
150

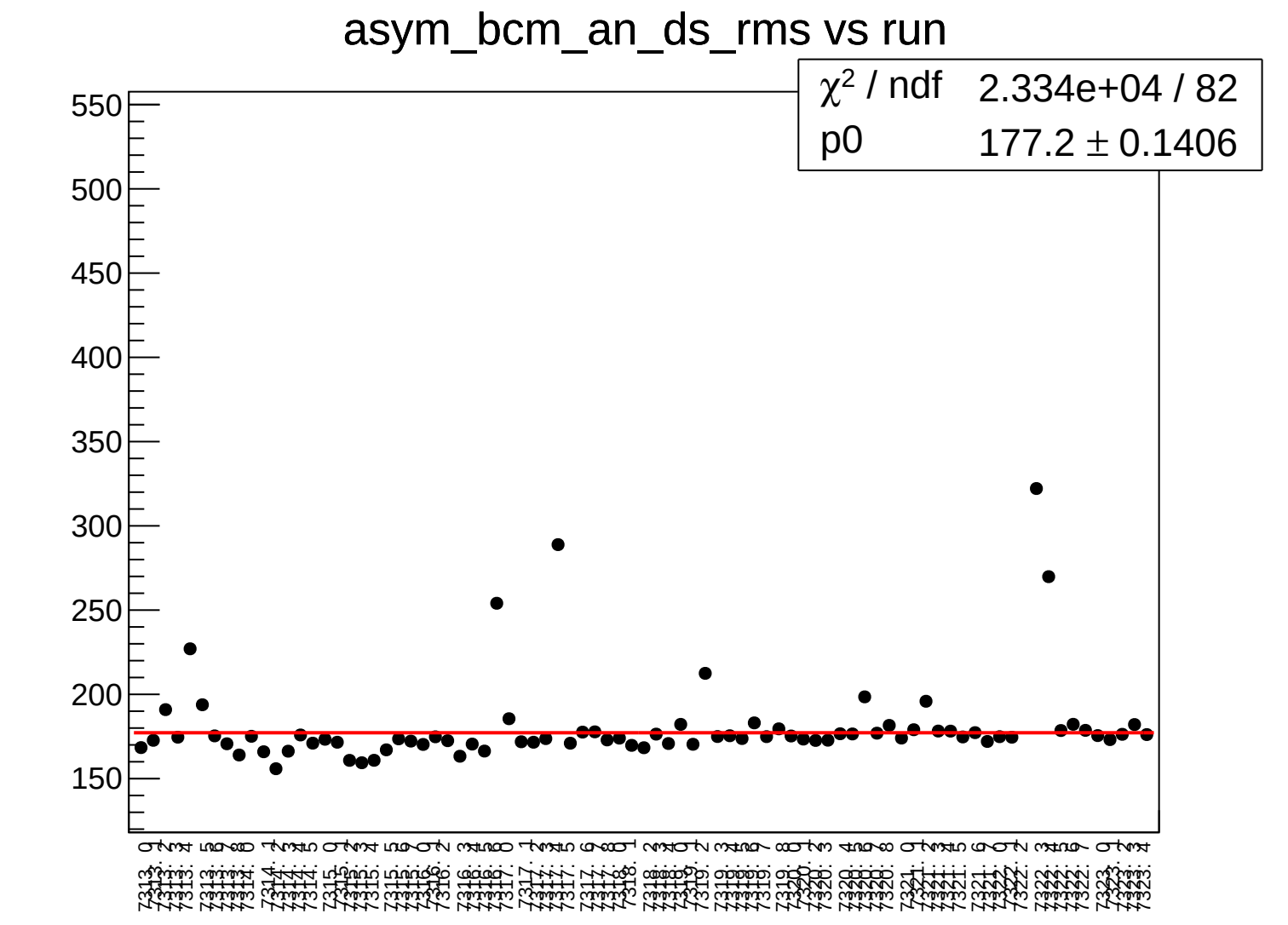

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 91.74 / 81
p0 39.73 ± 121.4
pull
Entries 82
Mean 136.6
Std Dev 0

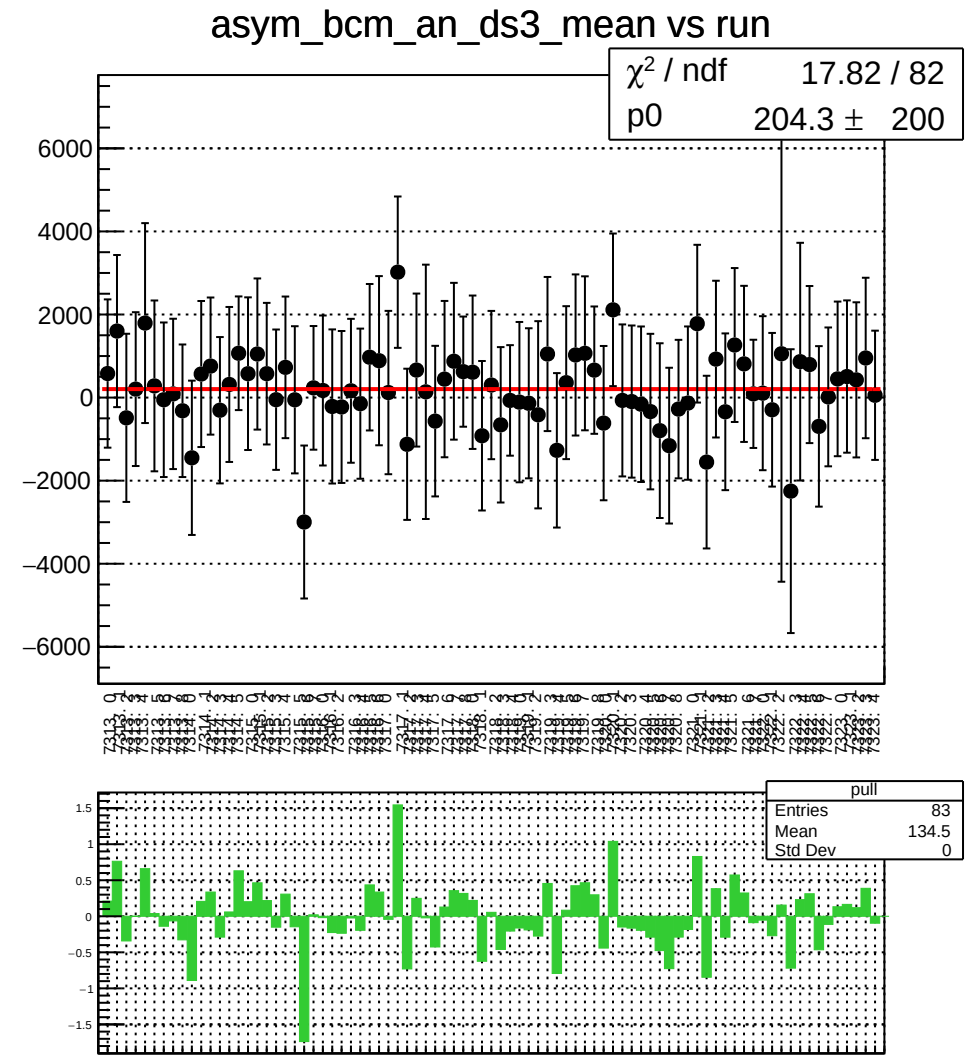

pull1D
Entries 82
Mean −0.02929
Std Dev 1.057

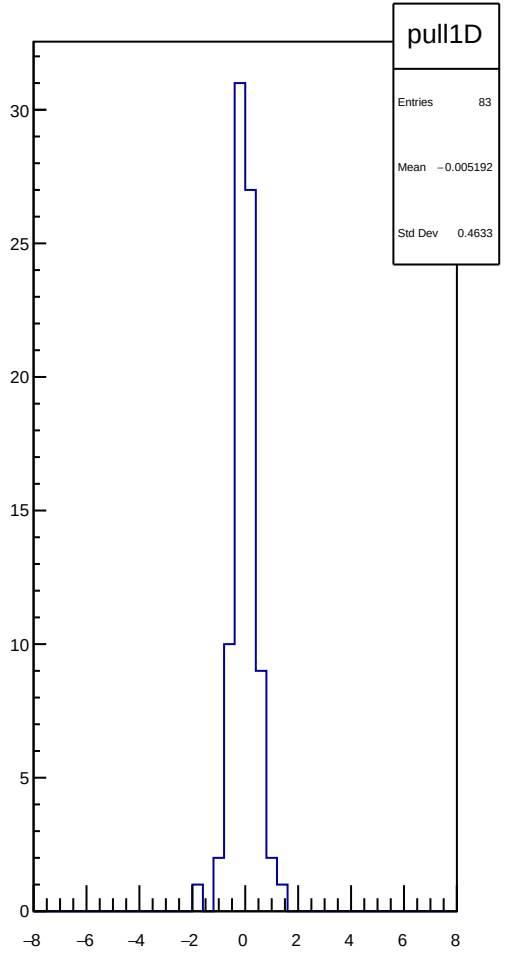

asym_bcm_an_diff_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.91e+05 / 68
p0 9.23e+04 ± 85.89

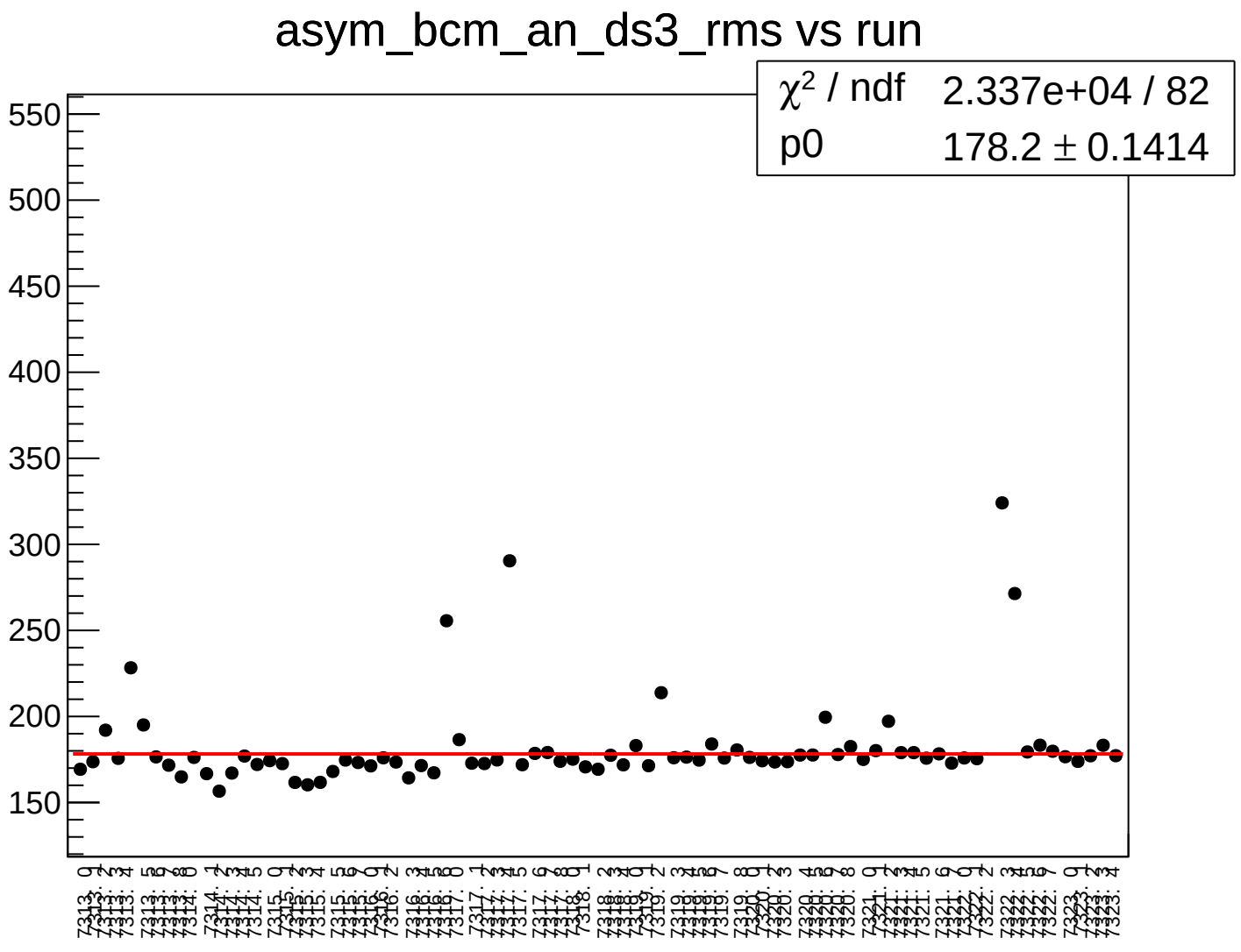

asym_bcm_an_ds_mean vs run
χ² / ndf 18.01 / 82
p0 199.5 ± 198.9
pull
Entries 83
Mean 142.4
Std Dev 0

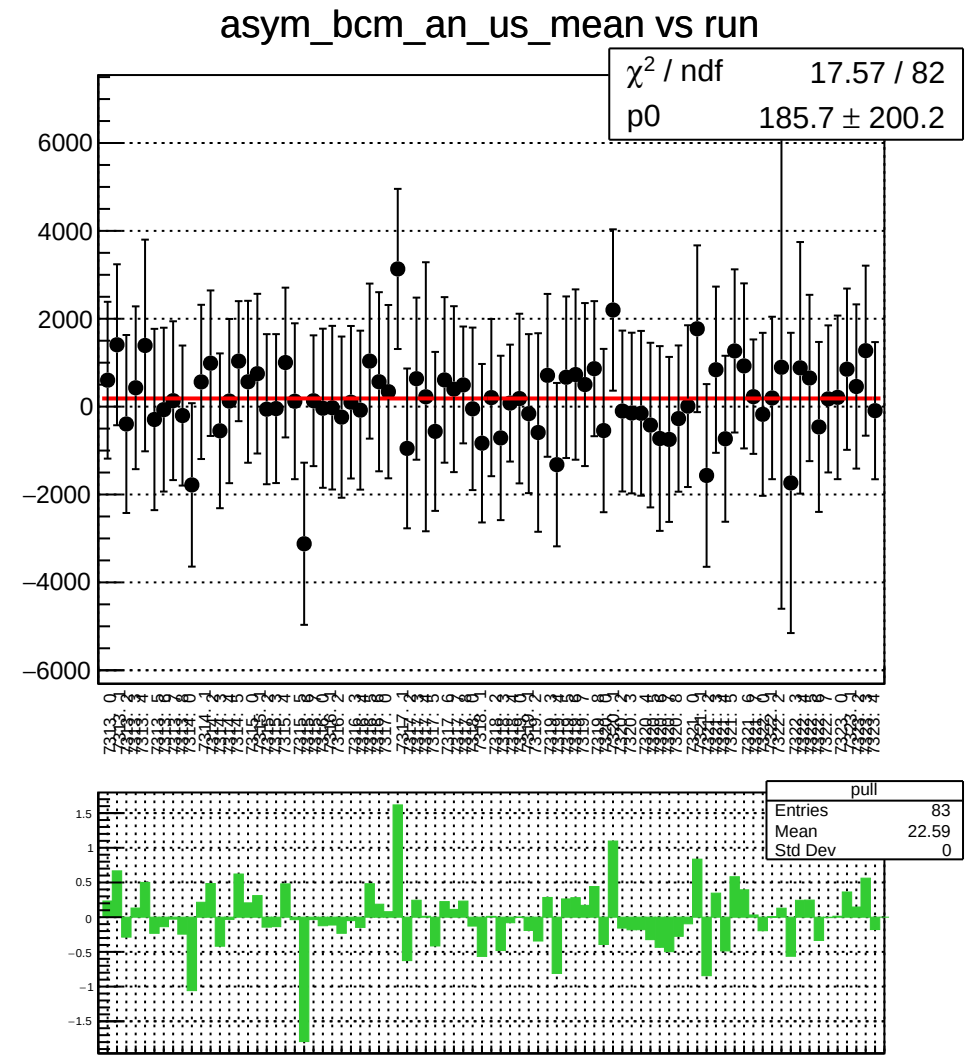

pull1D
Entries 83
Mean −0.005391
Std Dev 0.4658

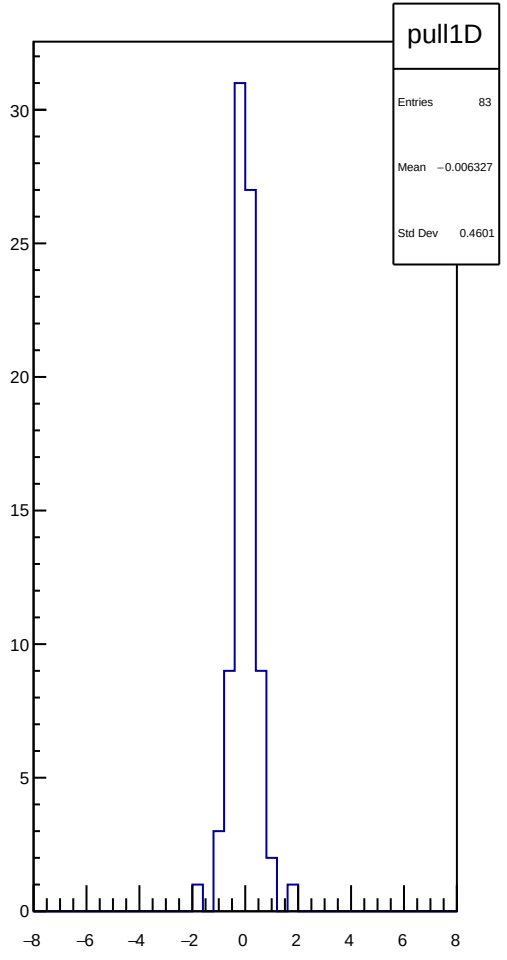

asym_bcm_an_ds_rms vs run
χ^2 / ndf 2.334e+04 / 82
p0 177.2 ± 0.1406
550
500
450
400
350
300
250
200
150

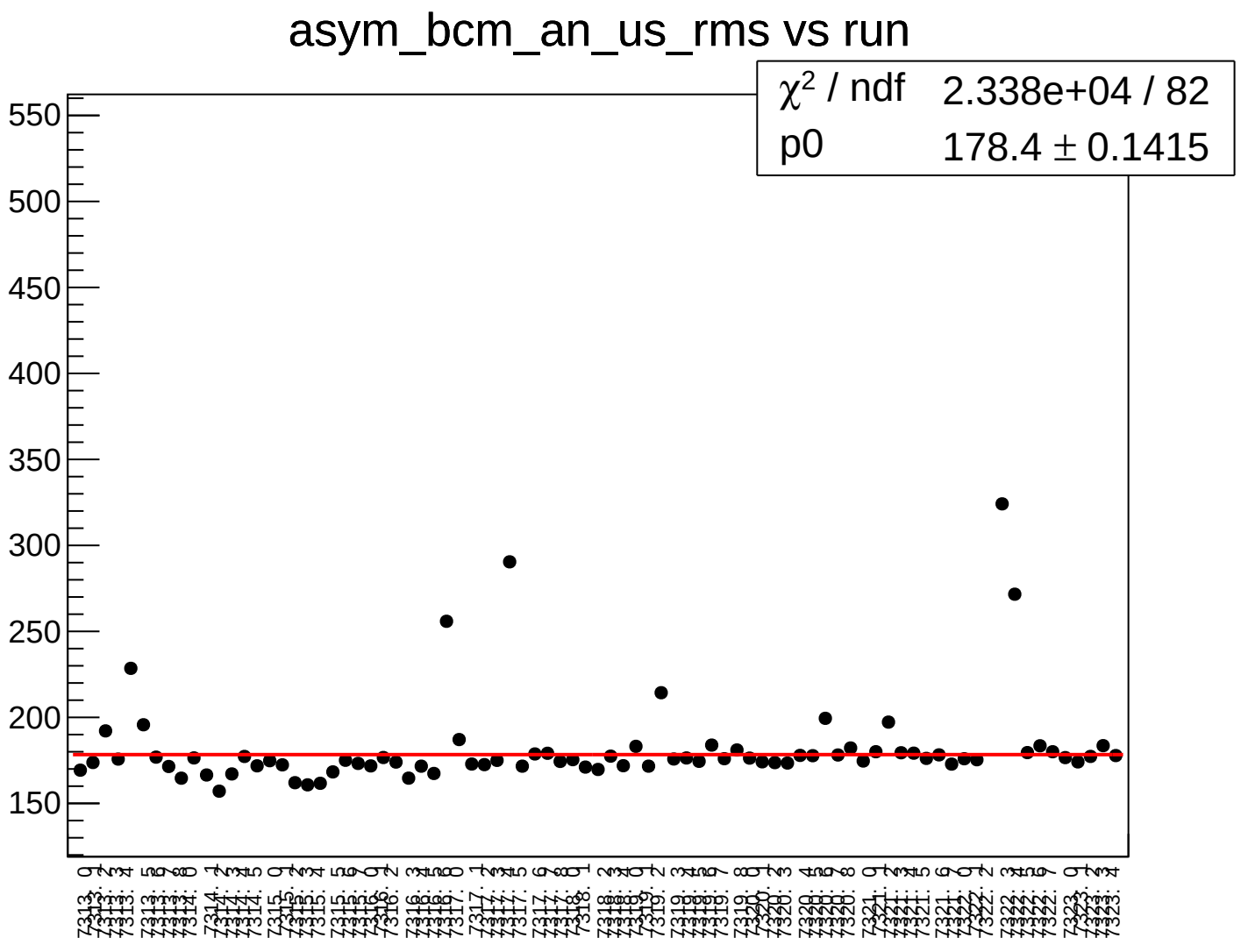

asym_bcm_an_ds3_mean vs run
χ² / ndf 17.82 / 82
p0 204.3 ± 200
pull
Entries 83
Mean 134.5
Std Dev 0

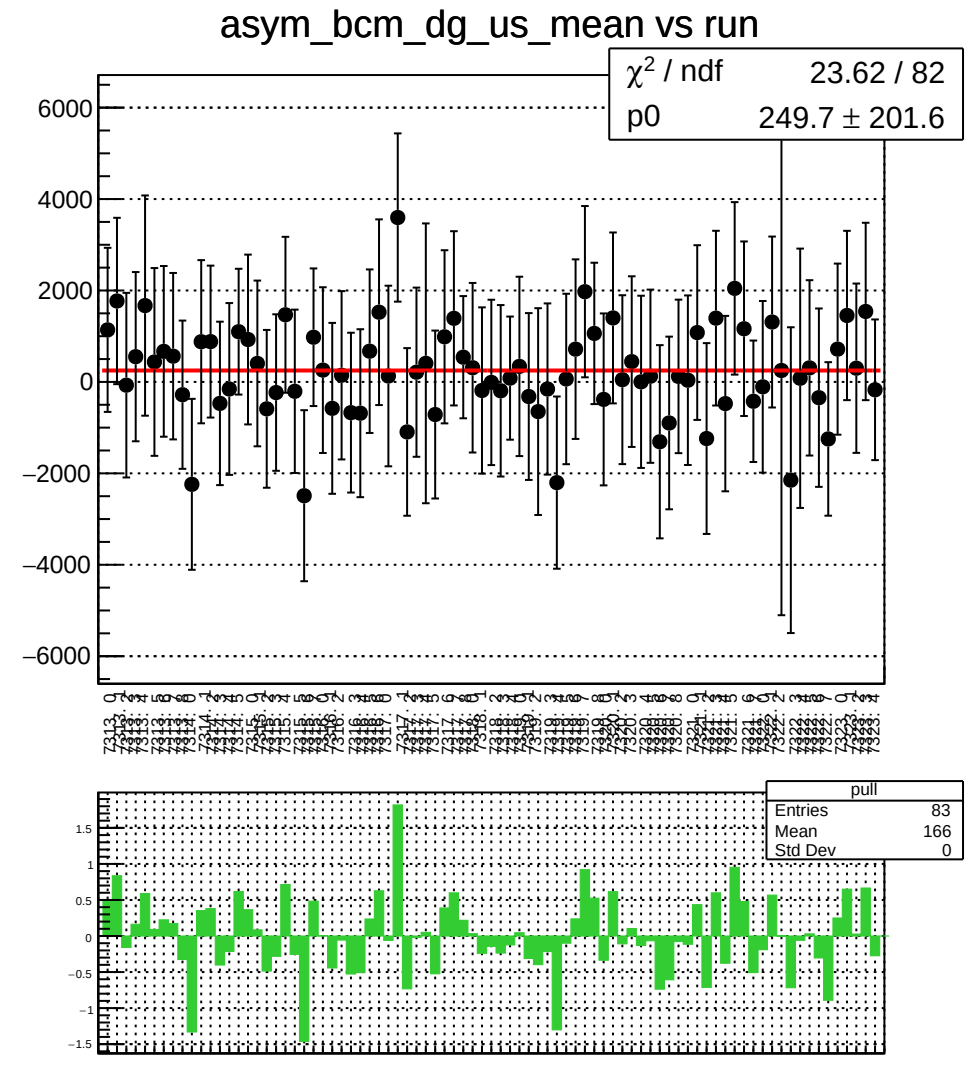

pull1D
Entries 83
Mean −0.005192
Std Dev 0.4633

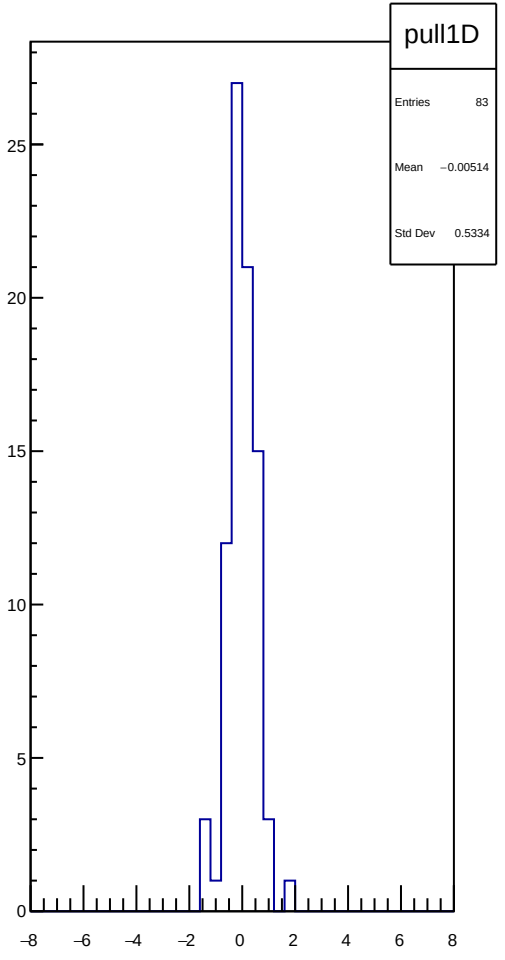

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2.337e+04 / 82
p0 178.2 ± 0.1414
550
500
450
400
350
300
250
200
150

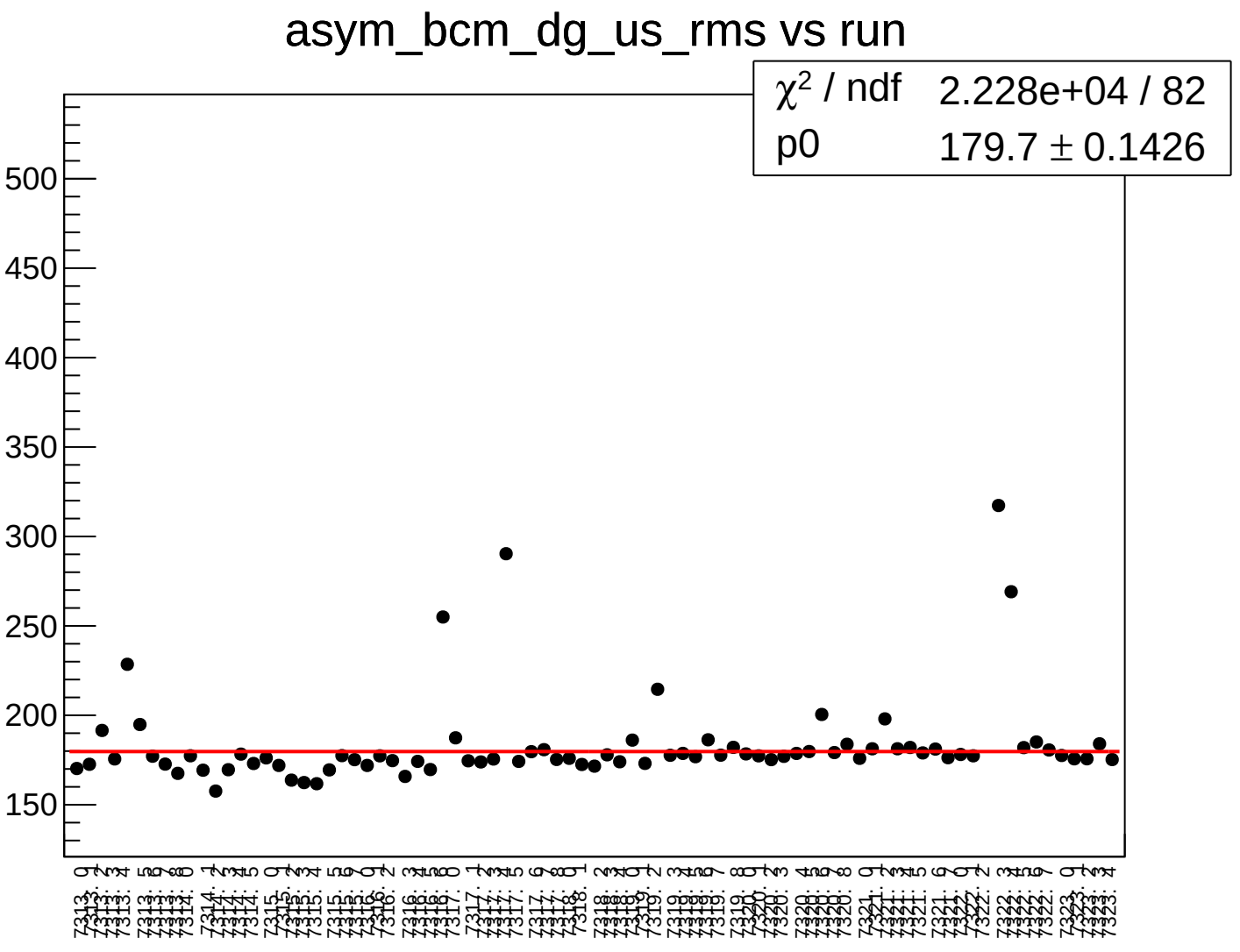

asym_bcm_an_us_mean vs run
χ² / ndf 17.57 / 82
p0 185.7 ± 200.2
pull
Entries 83
Mean 22.59
Std Dev 0

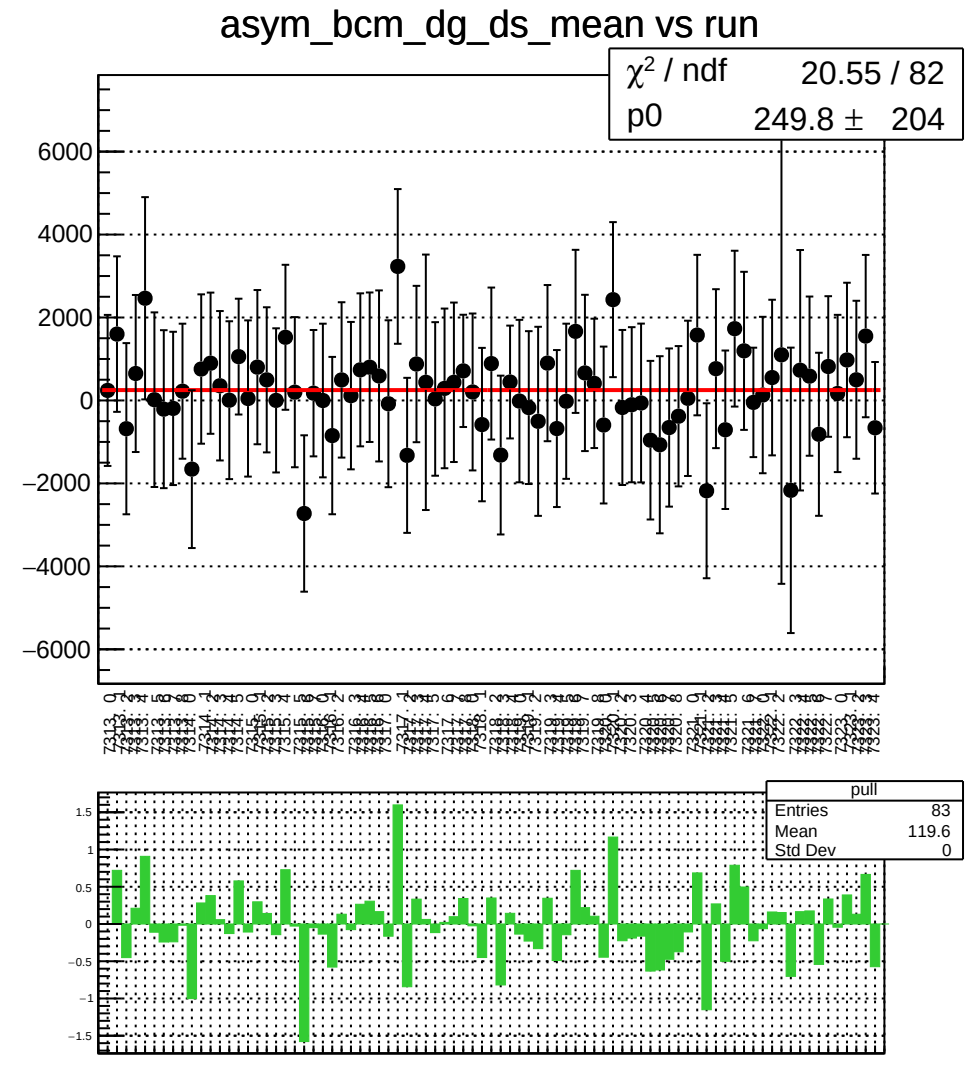

pull1D
Entries 83
Mean −0.006327
Std Dev 0.4601

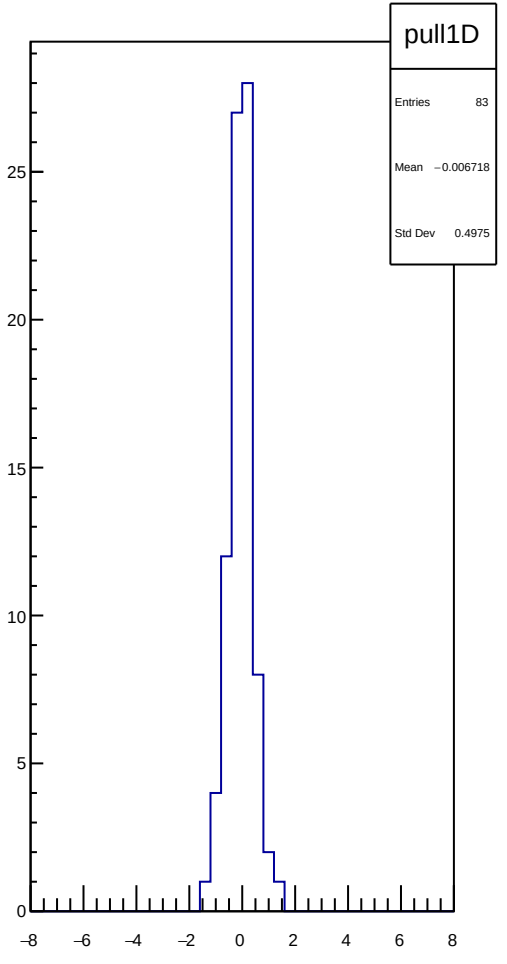

asym_bcm_an_us_rms vs run
χ² / ndf 2.338e+04 / 82
p0 178.4 ± 0.1415
550
500
450
400
350
300
250
200
150

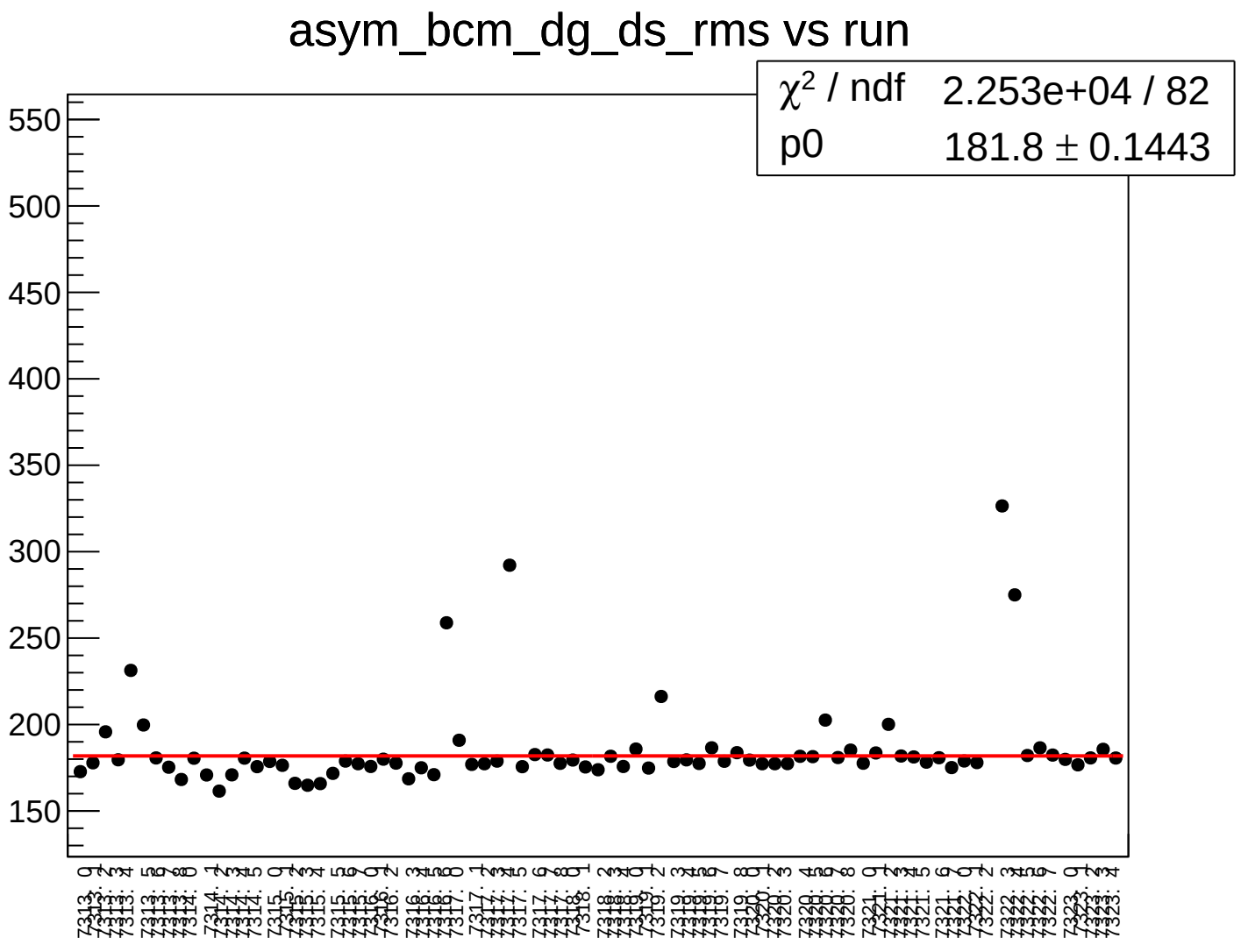

asym_bcm_dg_us_mean vs run
χ² / ndf 23.62 / 82
p0 249.7 ± 201.6
pull
Entries 83
Mean 166
Std Dev 0

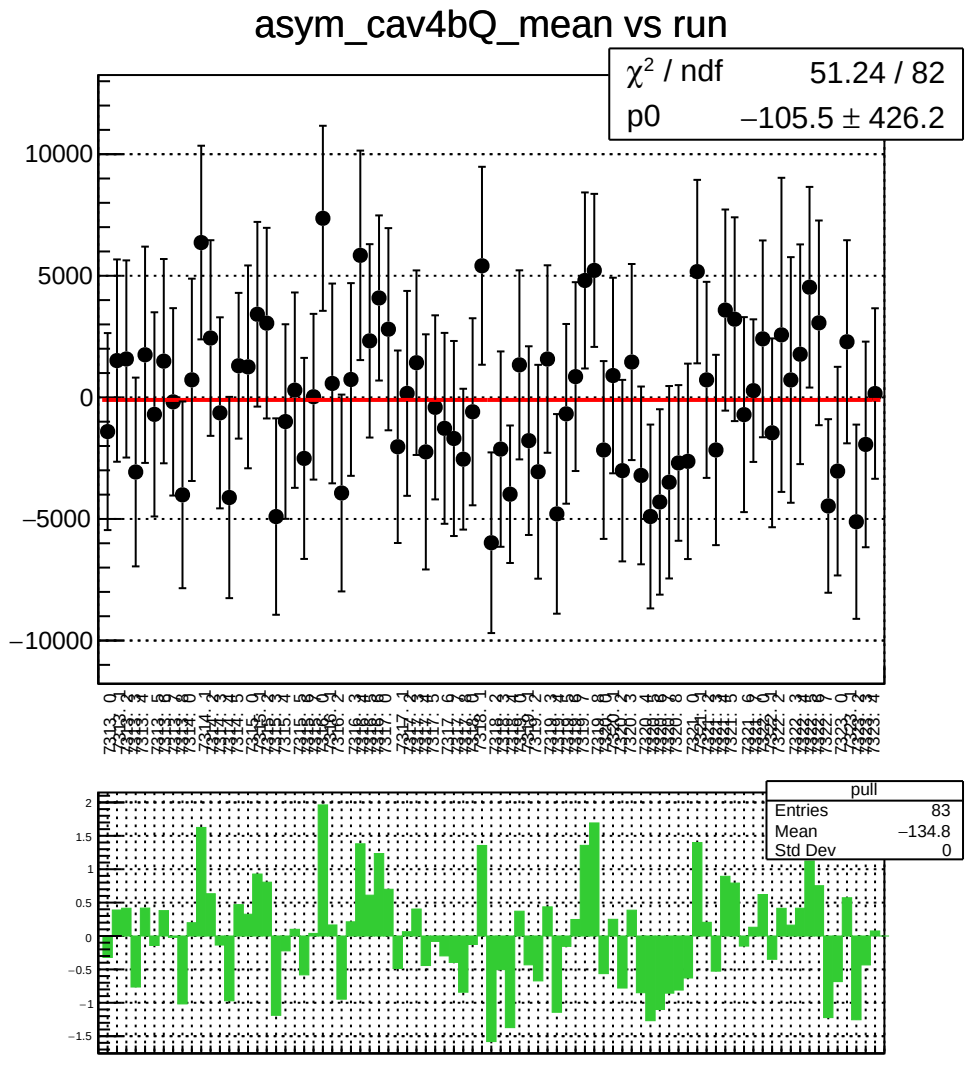

pull1D
Entries 83
Mean −0.00514
Std Dev 0.5334

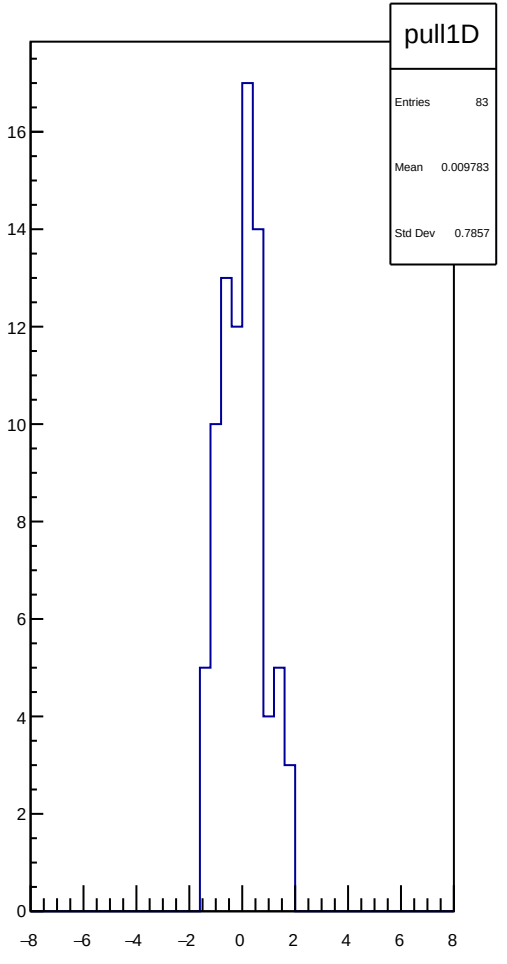

asym_bcm_dg_us_rms vs run
χ² / ndf 2.228e+04 / 82
p0 179.7 ± 0.1426
500
450
400
350
300
250
200
150

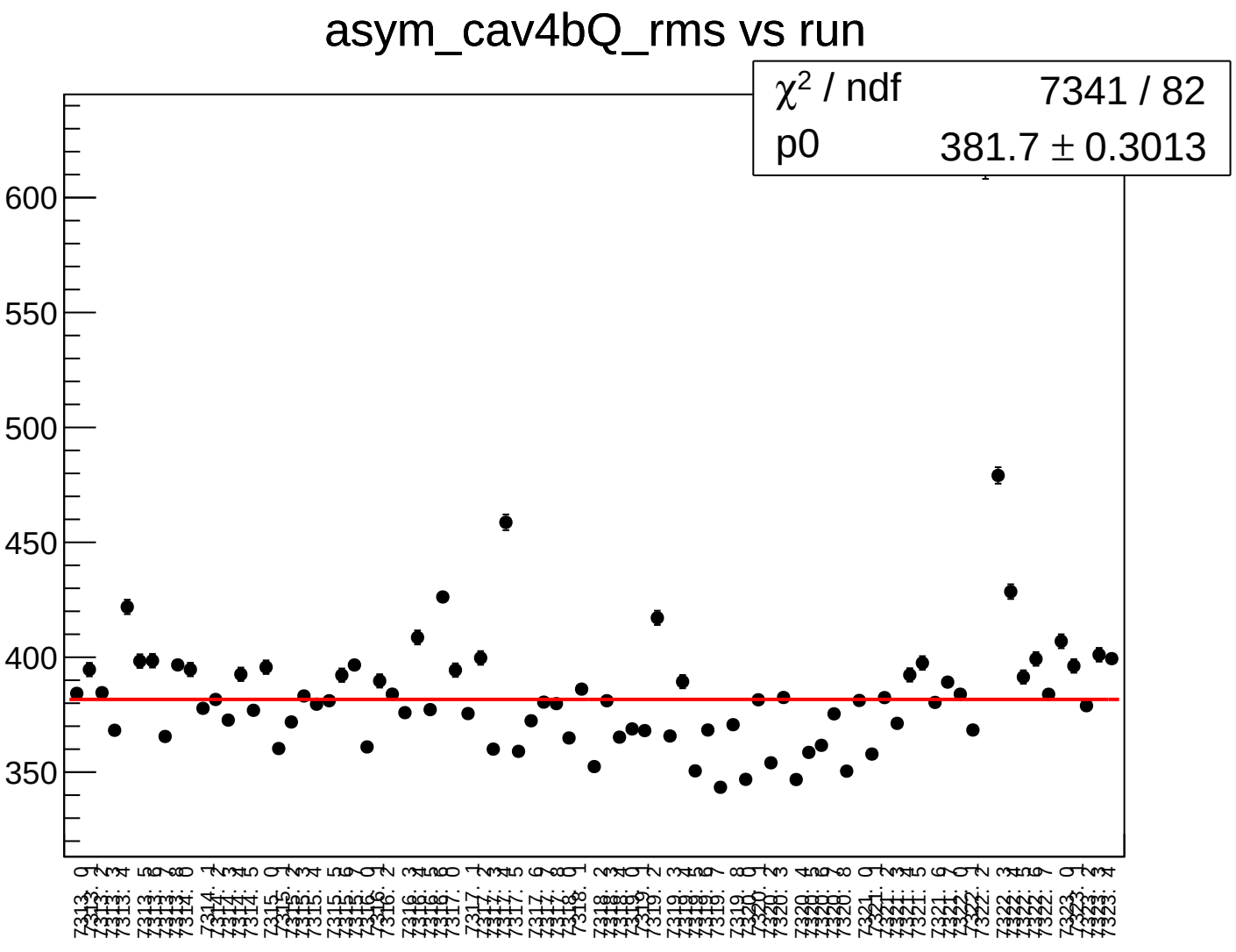

asym_bcm_dg_ds_mean vs run
χ² / ndf 20.55 / 82
p0 249.8 ± 204
pull
Entries 83
Mean 119.6
Std Dev 0

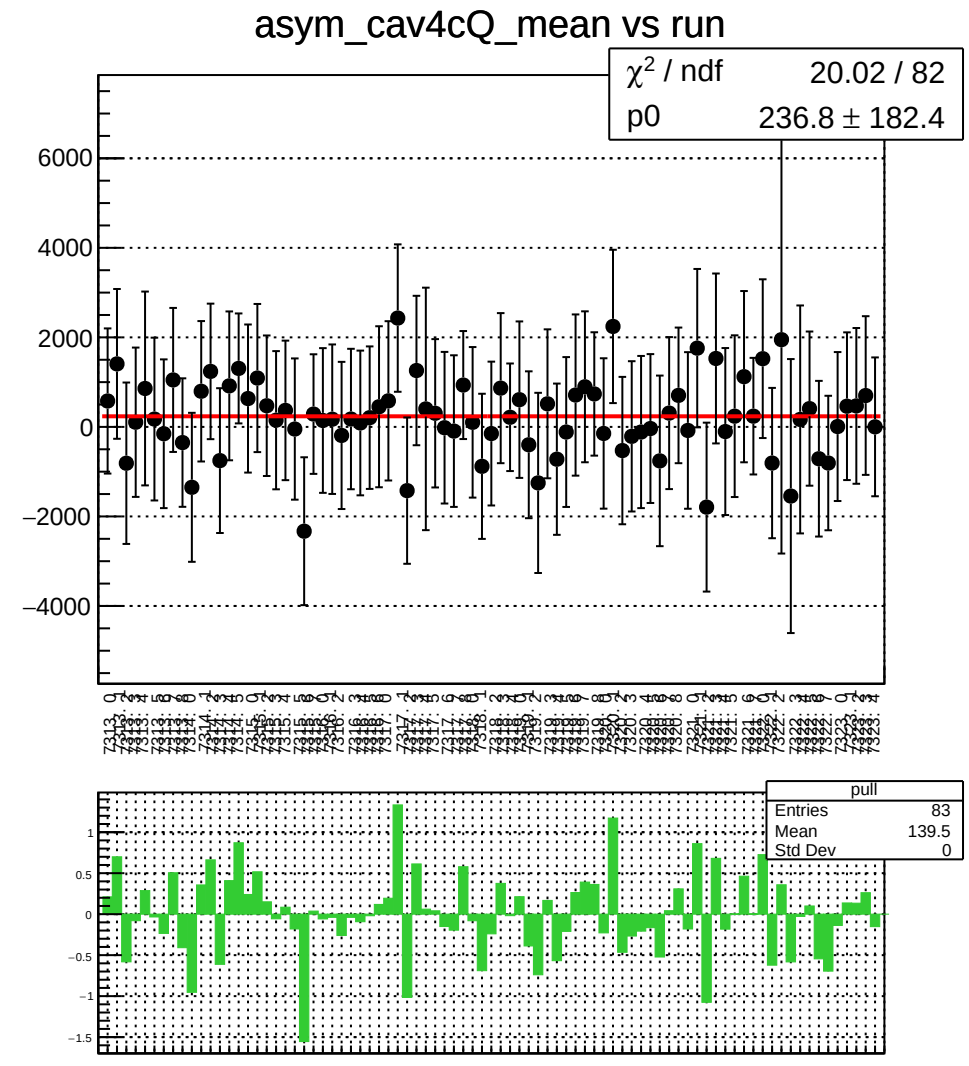

pull1D
Entries 83
Mean −0.006718
Std Dev 0.4975

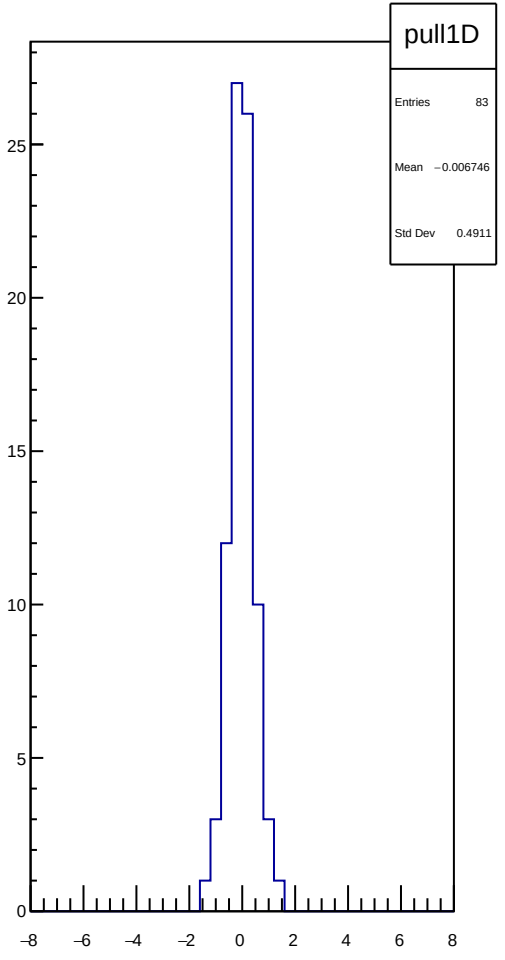

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.253e+04 / 82
p0 181.8 ± 0.1443
550
500
450
400
350
300
250
200
150

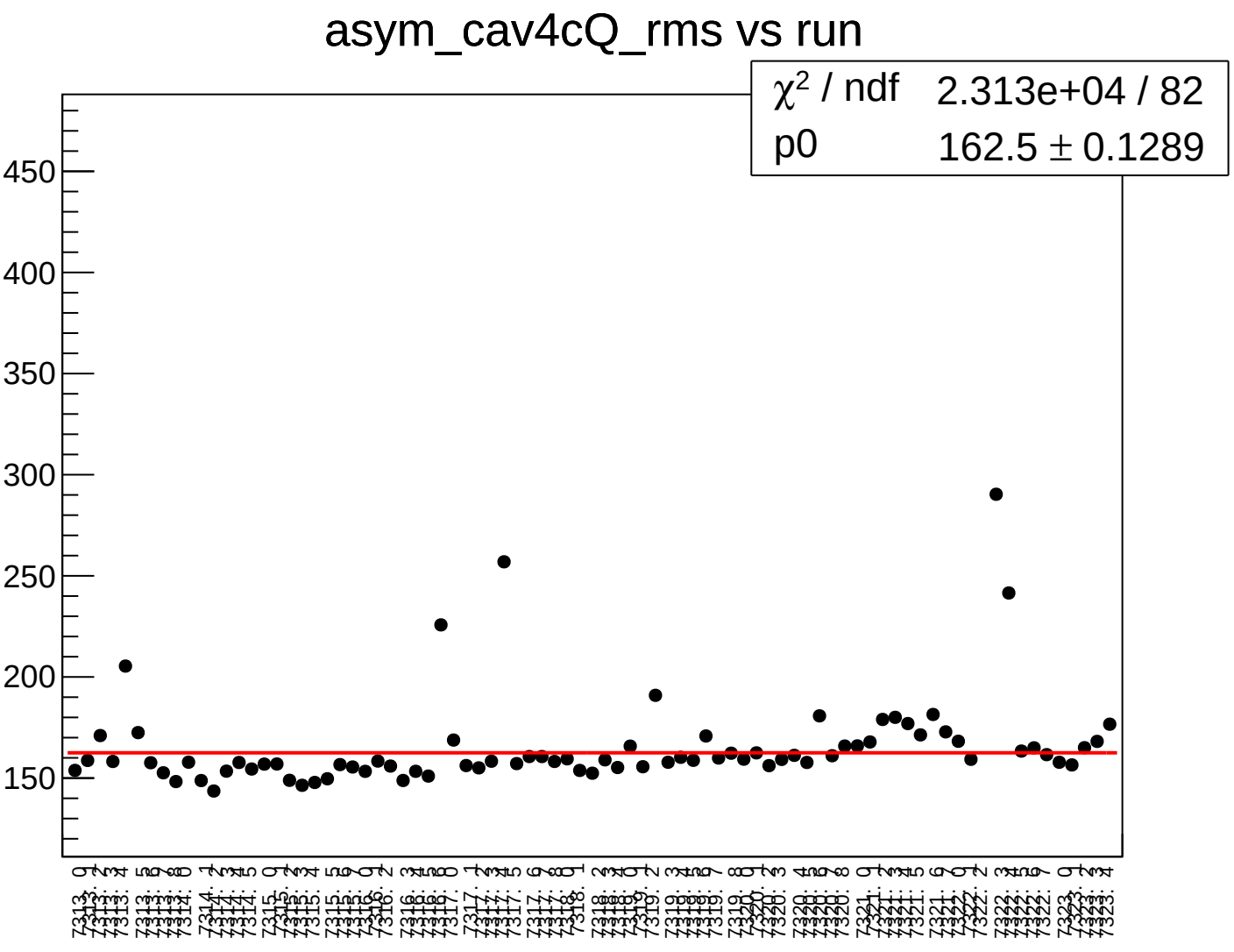

asym_cav4bQ_mean vs run
χ² / ndf 51.24 / 82
p0 −105.5 ± 426.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −134.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

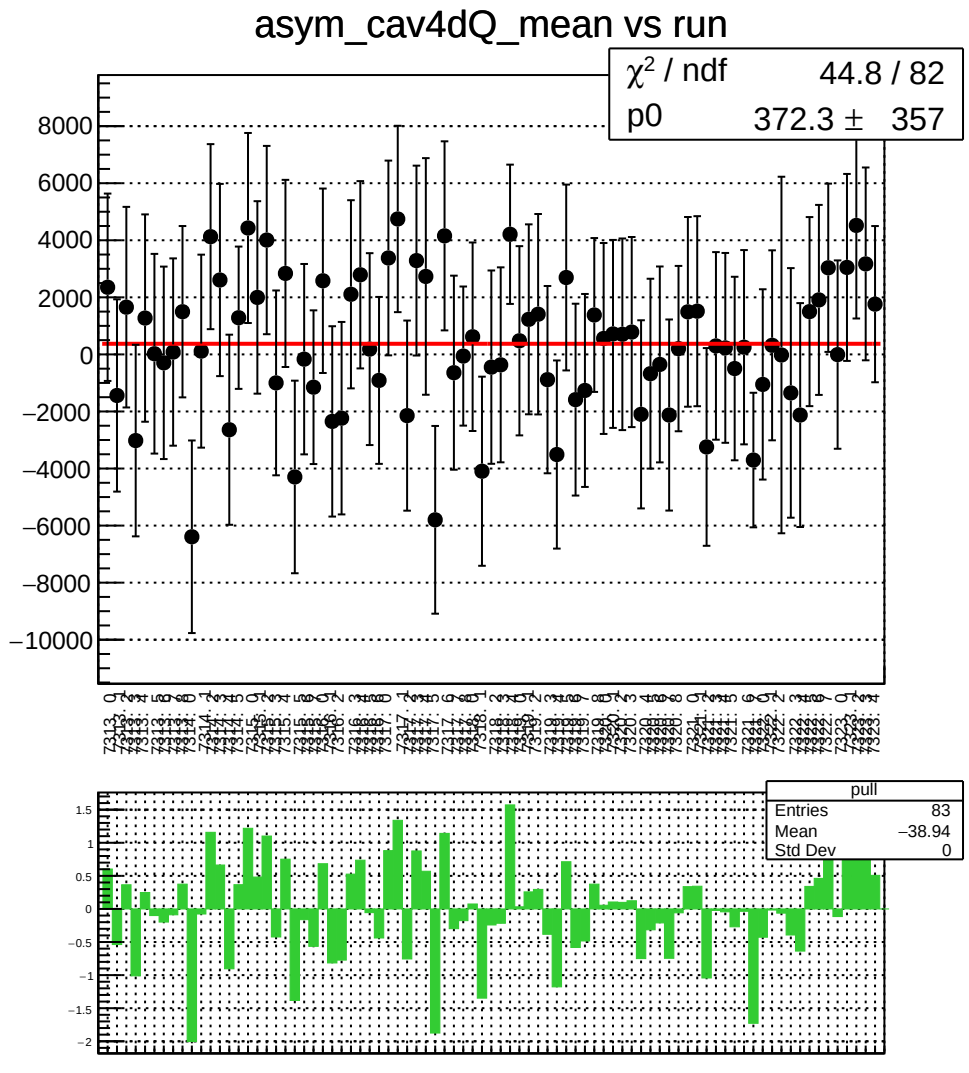

pull1D
Entries 83
Mean 0.009783
Std Dev 0.7857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

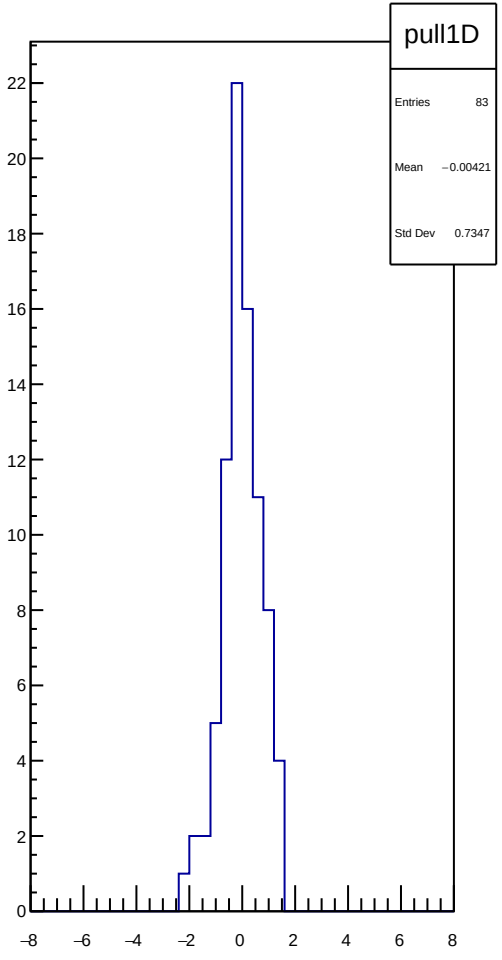

asym_cav4bQ_rms vs run
χ² / ndf 7341 / 82
p0 381.7 ± 0.3013
600
550
500
450
400
350

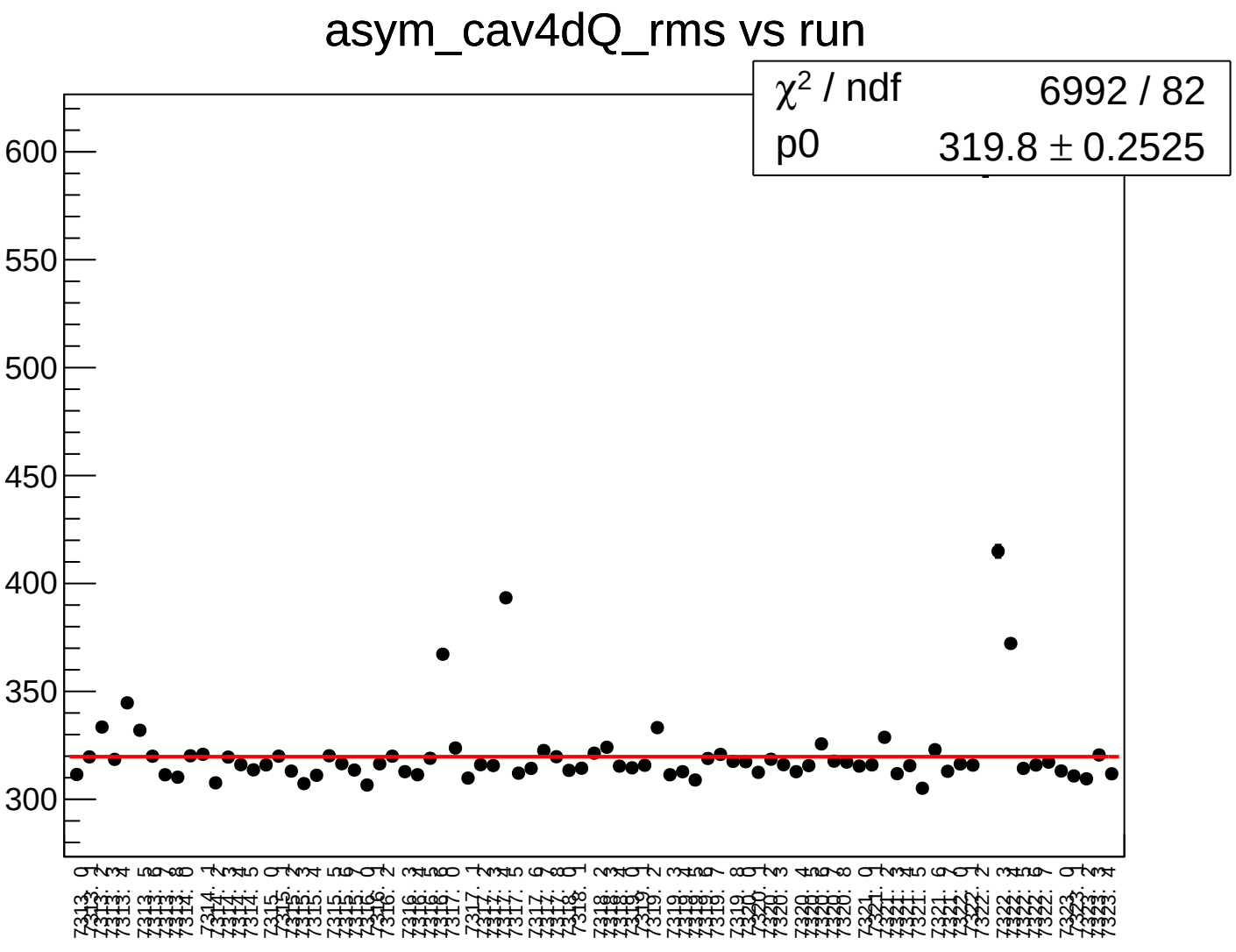

asym_cav4cQ_mean vs run
χ² / ndf 20.02 / 82
p0 236.8 ± 182.4
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 139.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

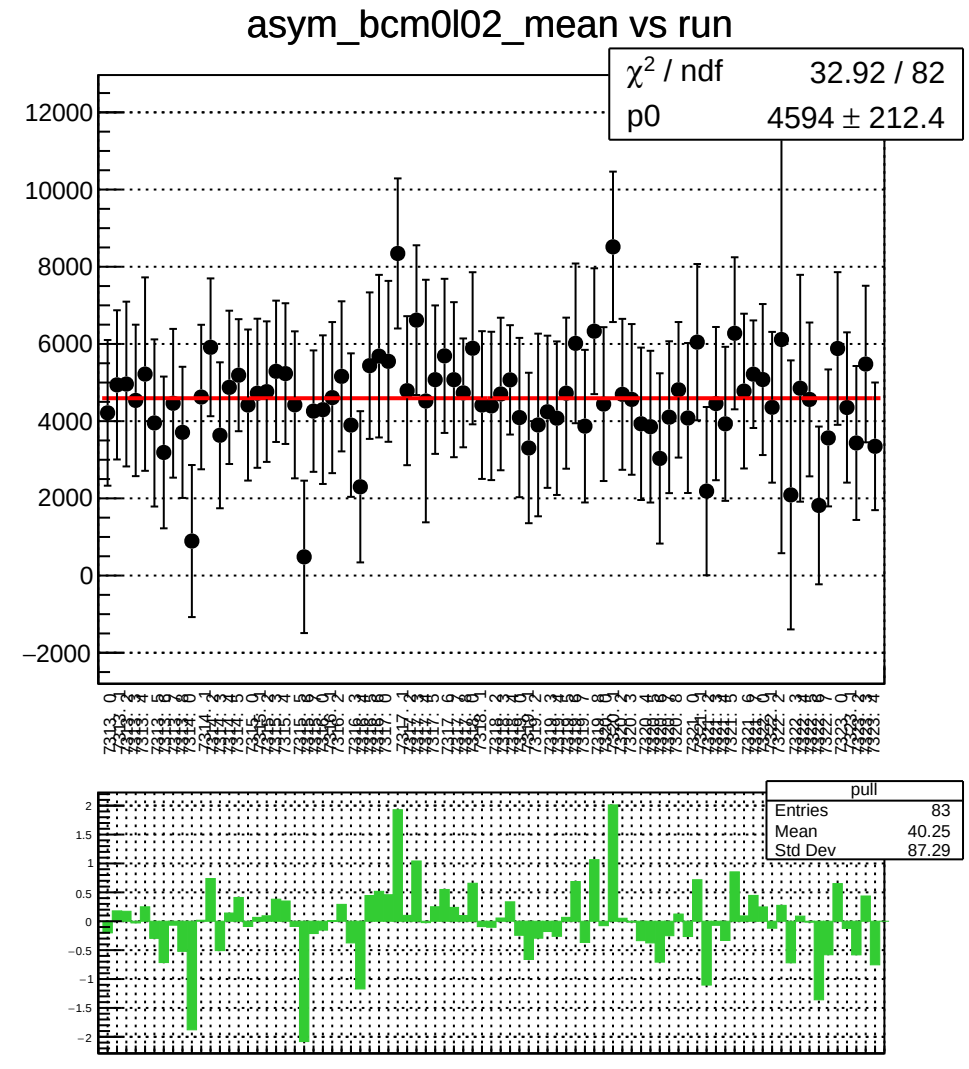

pull1D
Entries 83
Mean −0.006746
Std Dev 0.4911
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

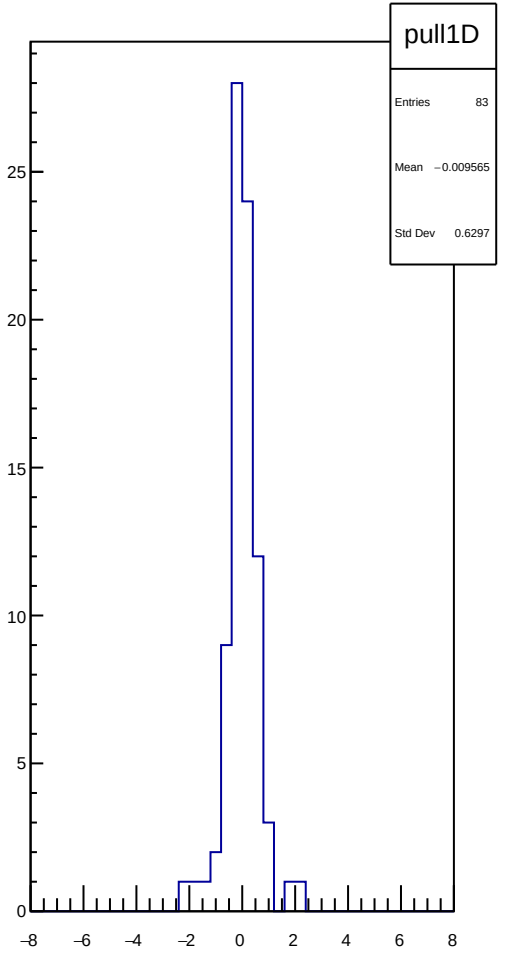

asym_cav4cQ_rms vs run
χ² / ndf 2.313e+04 / 82
p0 162.5 ± 0.1289
450
400
350
300
250
200
150

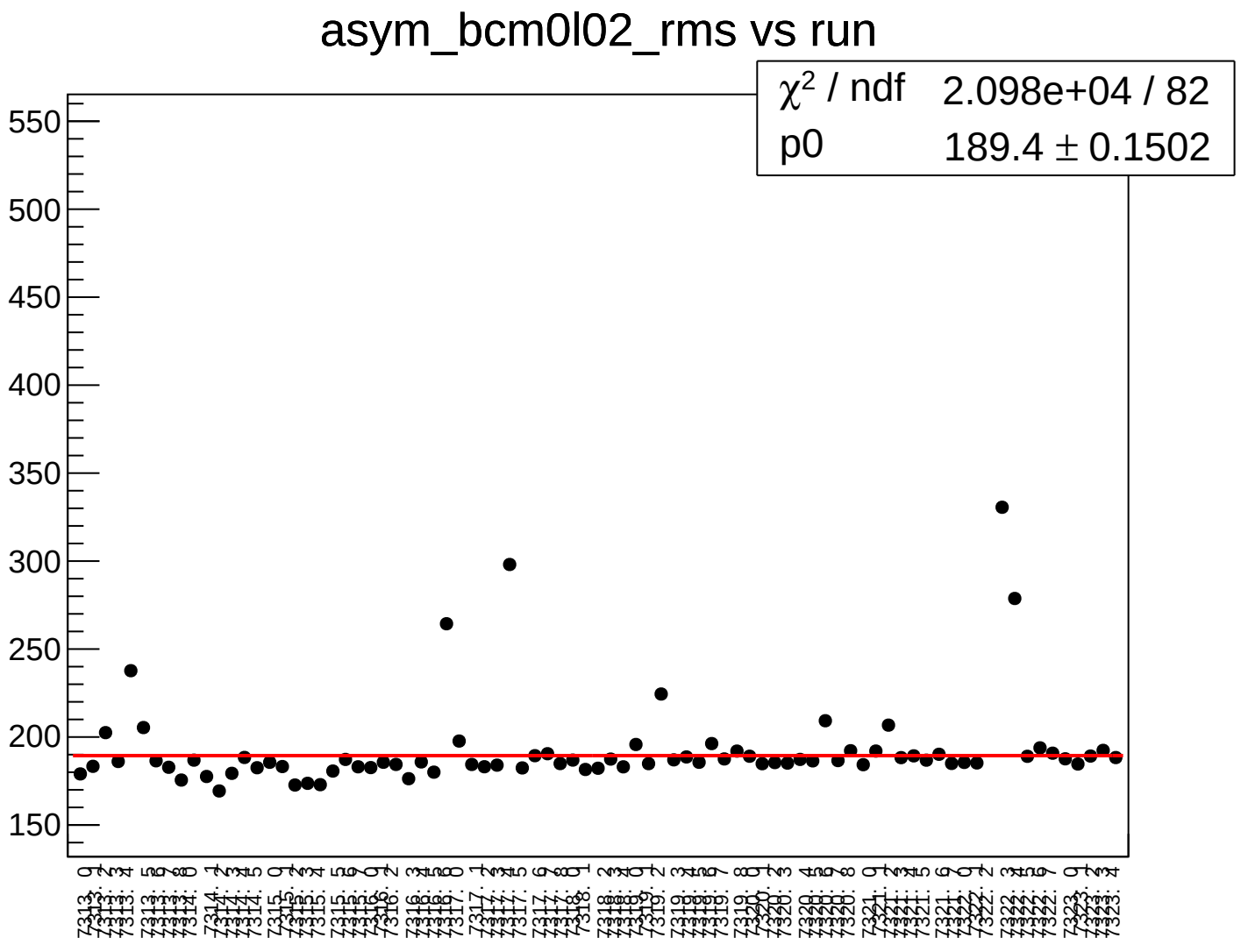

asym_cav4dQ_mean vs run
χ² / ndf 44.8 / 82
p0 372.3 ± 357
pull
Entries 83
Mean −38.94
Std Dev 0

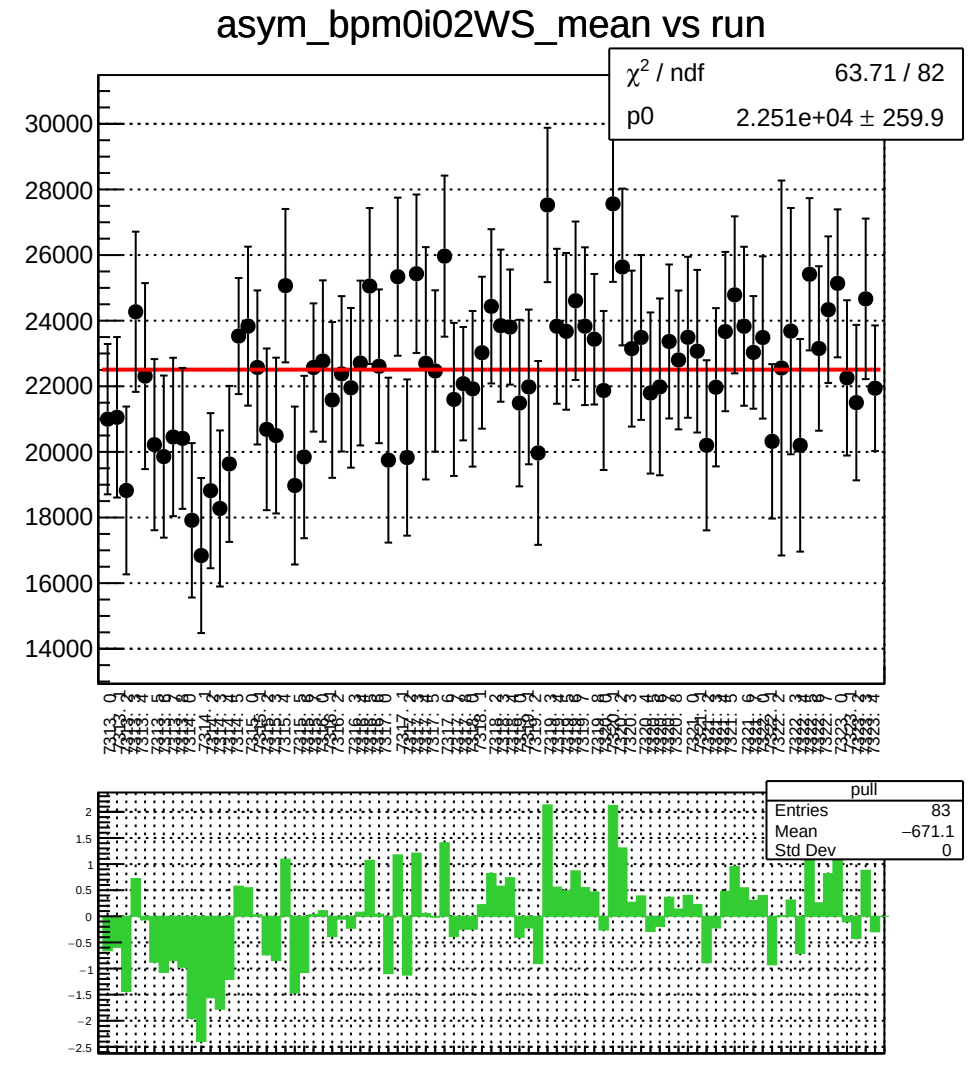

pull1D
Entries 83
Mean −0.00421
Std Dev 0.7347

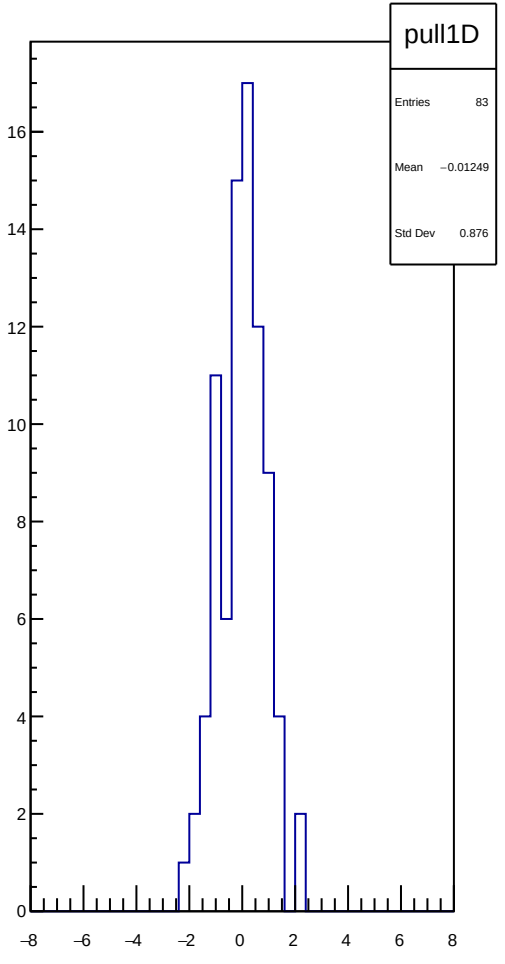

asym_cav4dQ_rms vs run
χ² / ndf 6992 / 82
p0 319.8 ± 0.2525
600
550
500
450
400
350
300

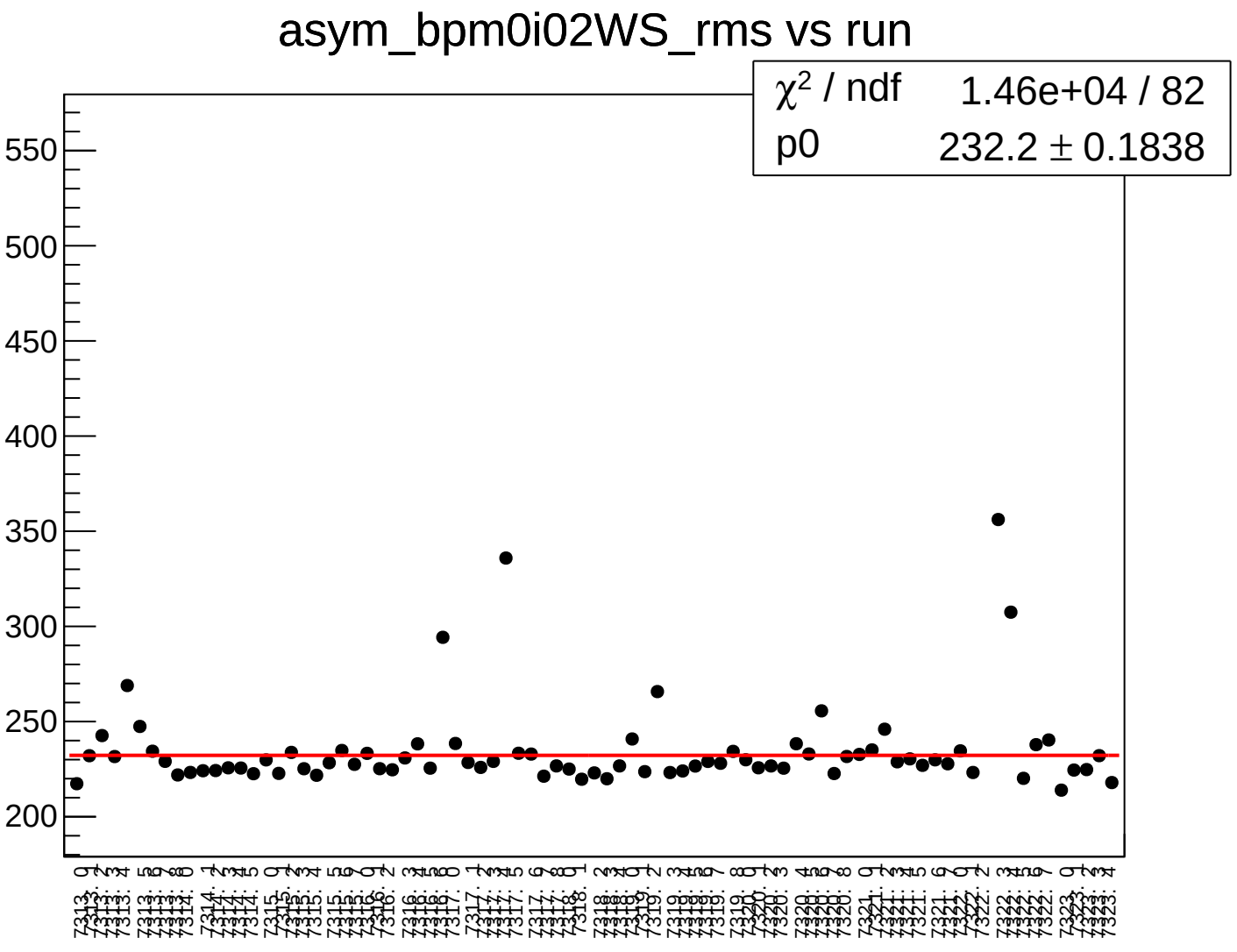

asym_bcm0l02_mean vs run
χ² / ndf 32.92 / 82
p0 4594 ± 212.4
pull
Entries 83
Mean 40.25
Std Dev 87.29

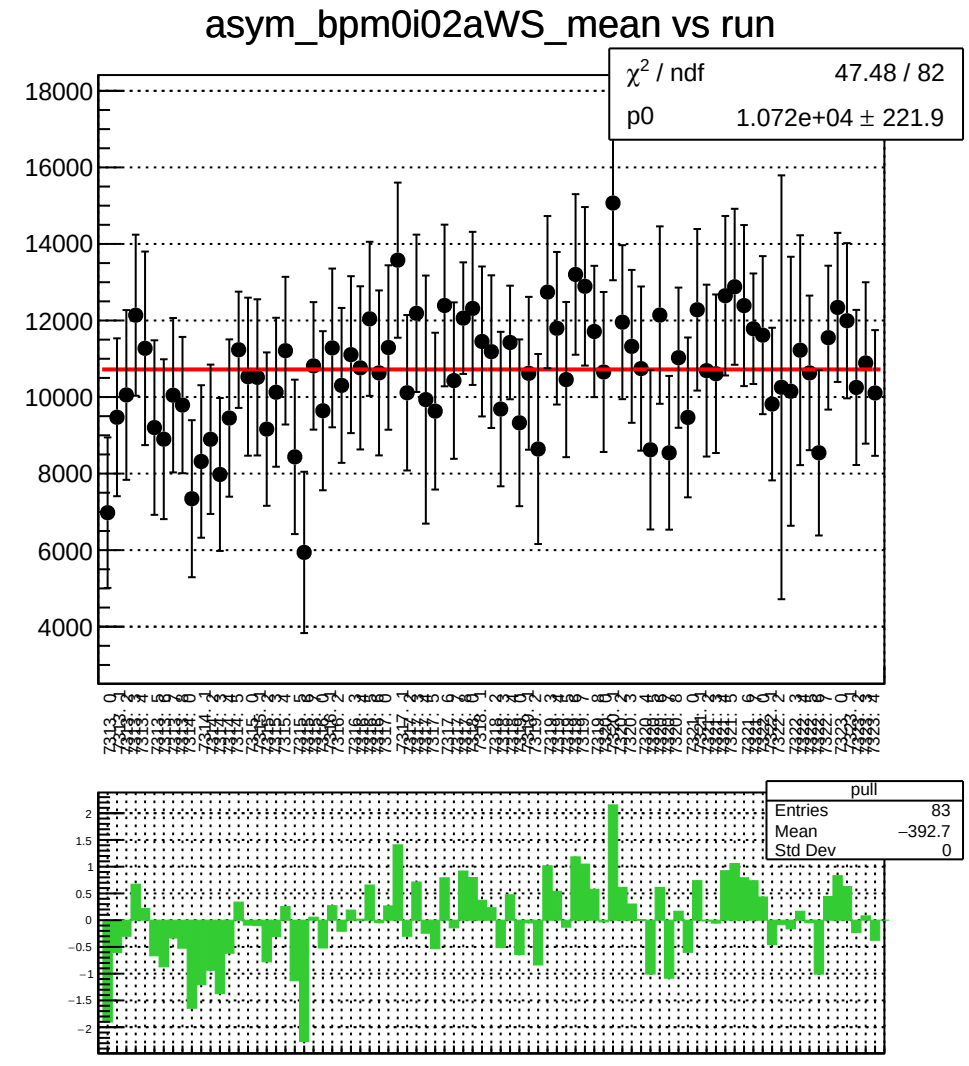

pull1D
Entries 83
Mean −0.009565
Std Dev 0.6297

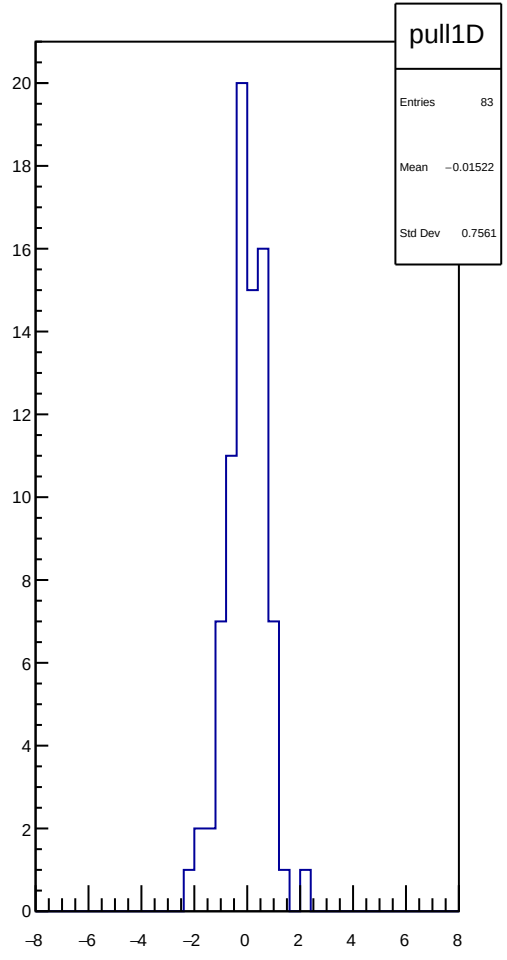

asym_bcm0l02_rms vs run
χ^2 / ndf 2.098e+04 / 82
p0 189.4 ± 0.1502
550
500
450
400
350
300
250
200
150

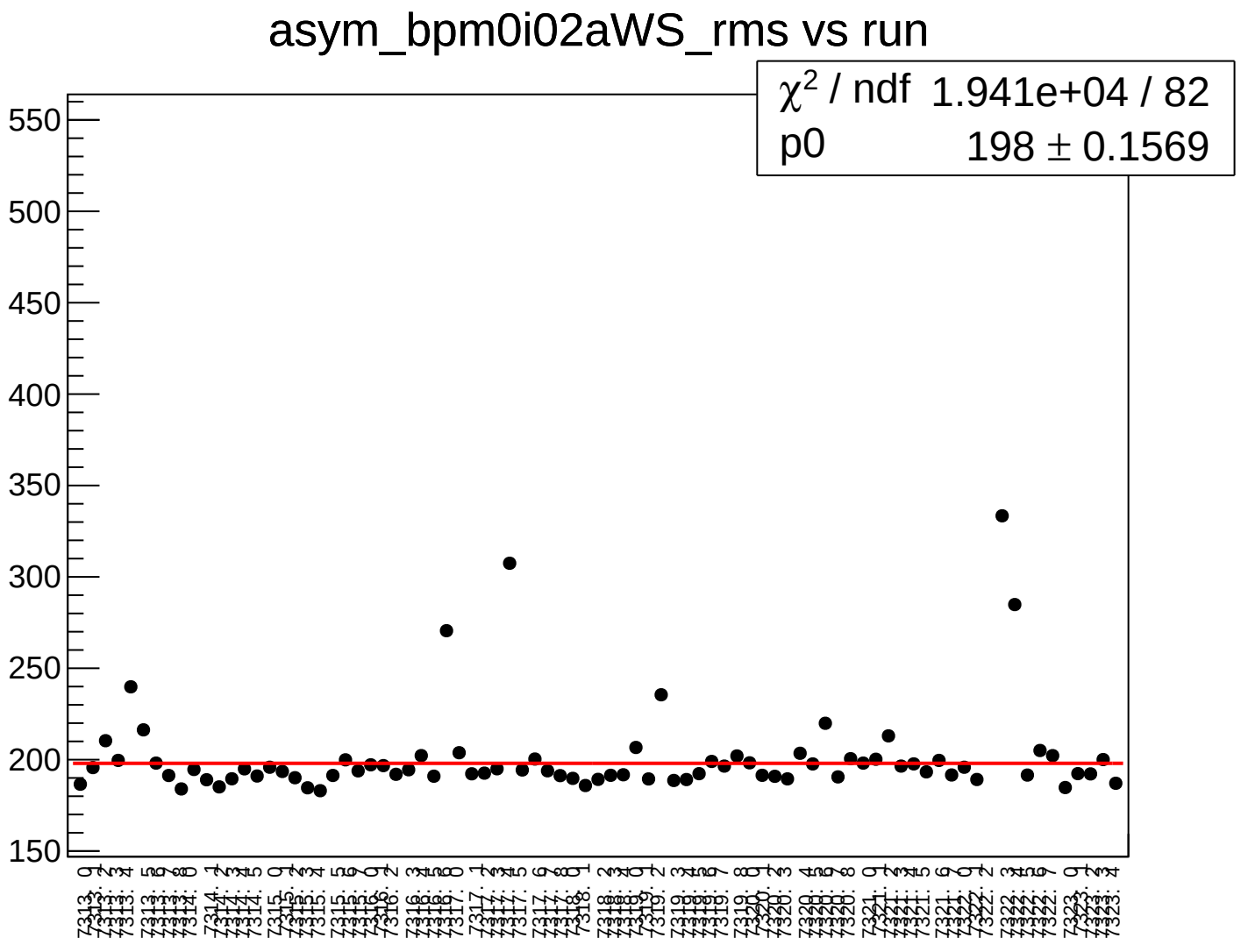

asym_bpm0i02WS_mean vs run
χ² / ndf 63.71 / 82
p0 2.251e+04 ± 259.9
pull
Entries 83
Mean −671.1
Std Dev 0

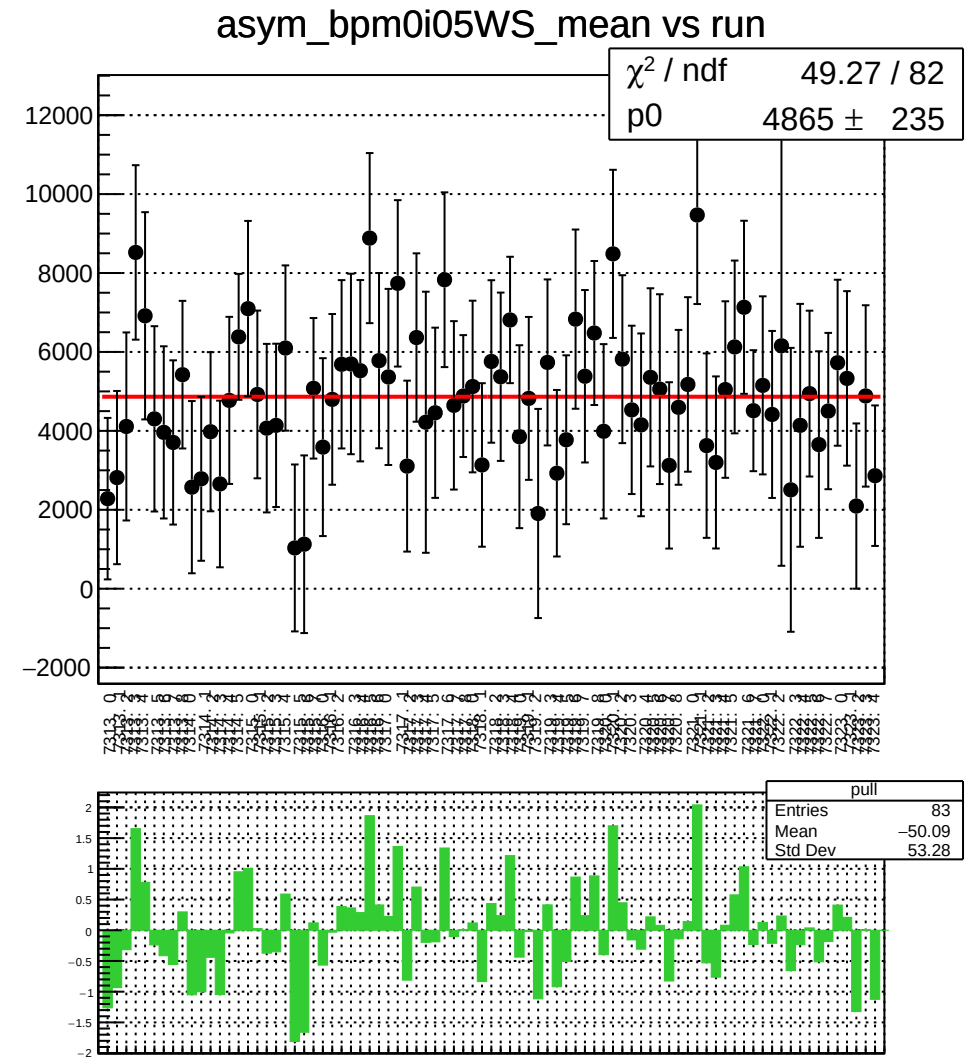

pull1D
Entries 83
Mean −0.01249
Std Dev 0.876

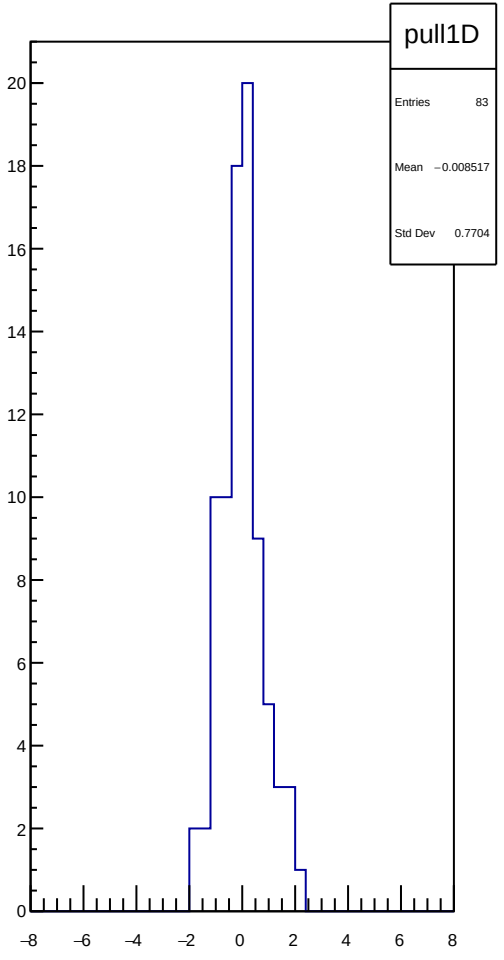

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.46e+04 / 82
p0 232.2 ± 0.1838
550
500
450
400
350
300
250
200

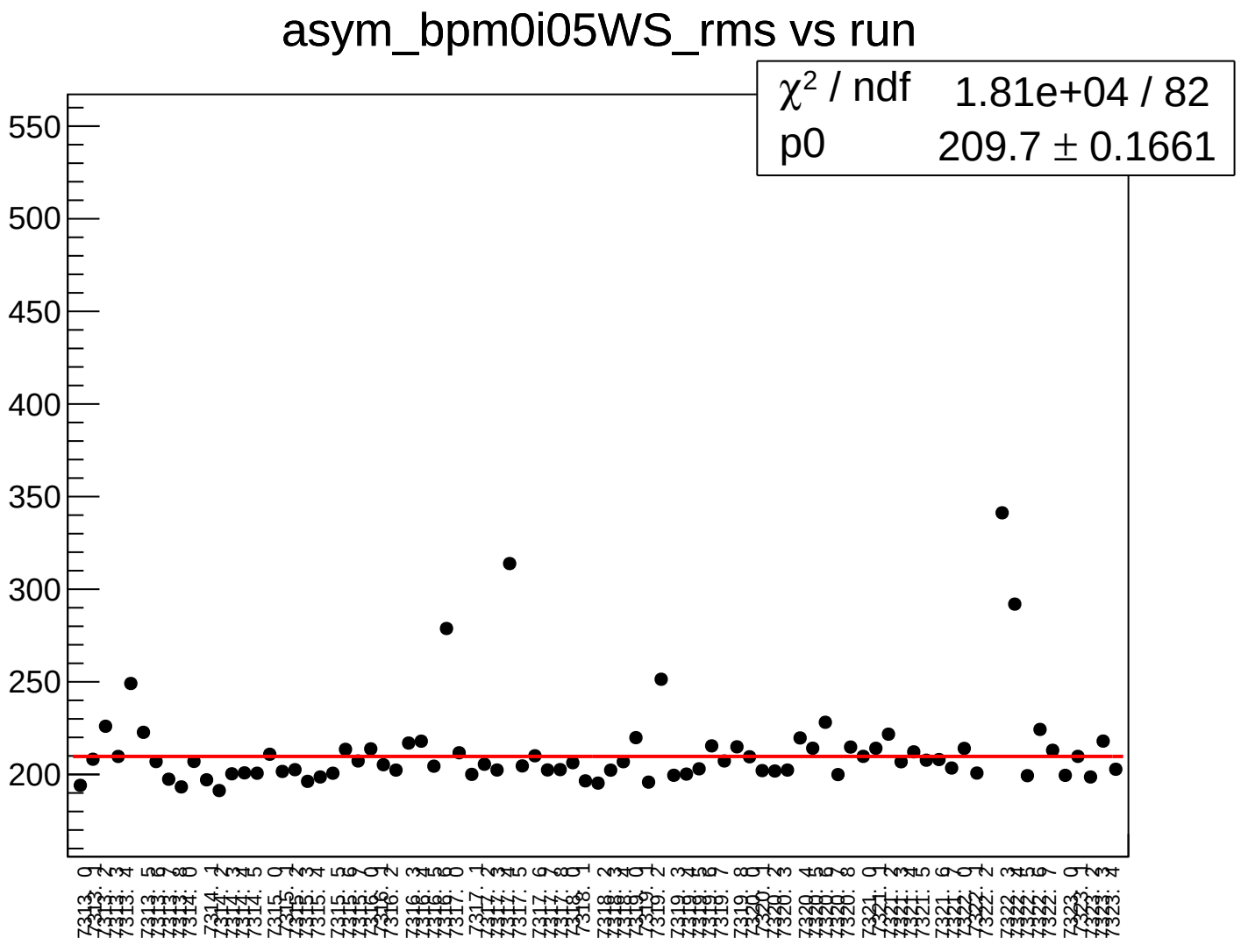

asym_bpm0i02aWS_mean vs run
χ² / ndf 47.48 / 82
p0 1.072e+04 ± 221.9
pull
Entries 83
Mean −392.7
Std Dev 0

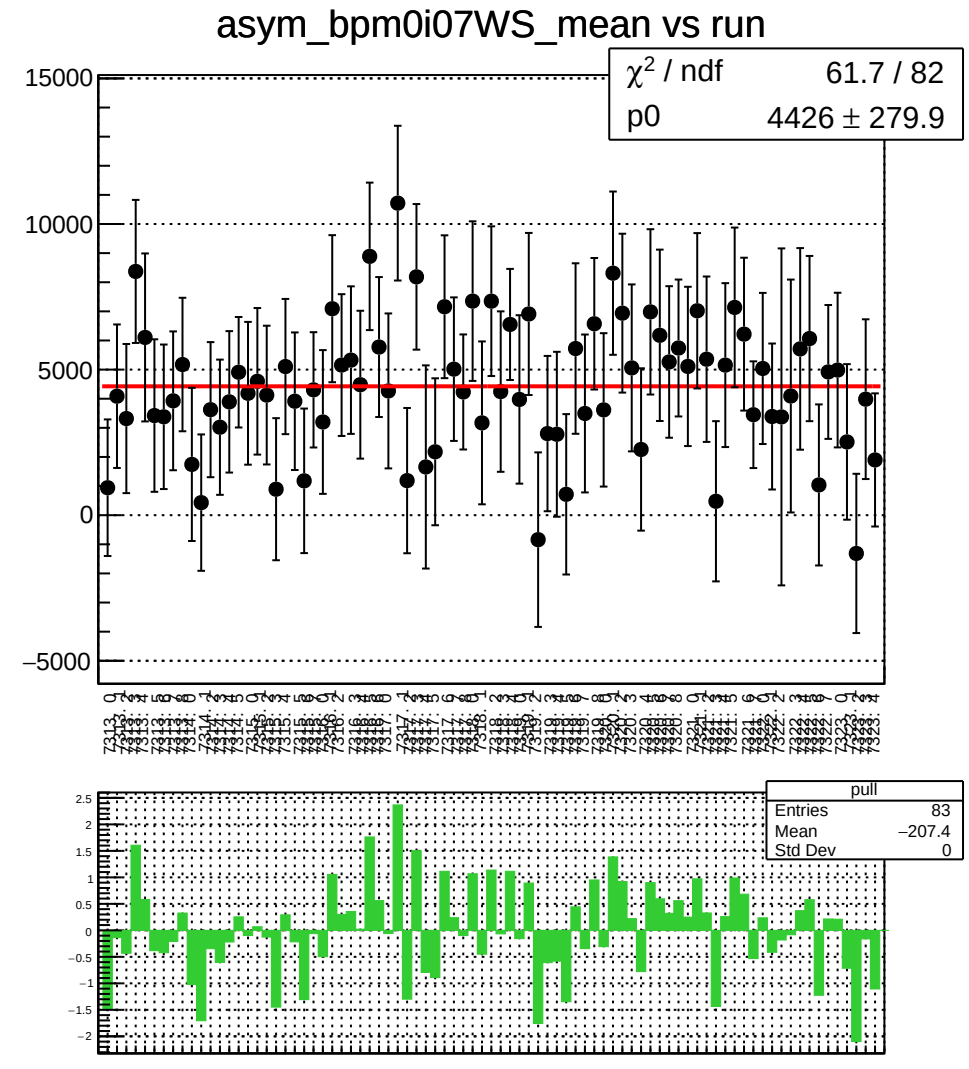

pull1D
Entries 83
Mean −0.01522
Std Dev 0.7561

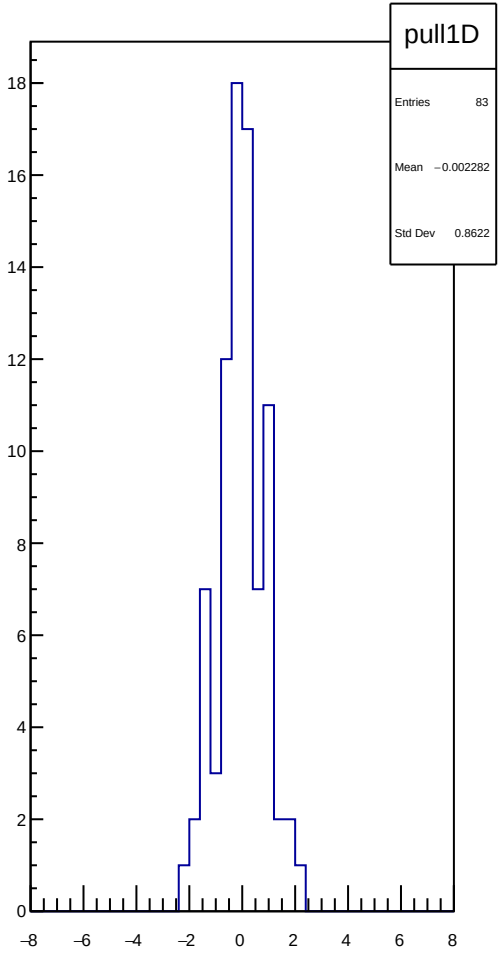

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.941e+04 / 82
p0 198 ± 0.1569
550
500
450
400
350
300
250
200
150

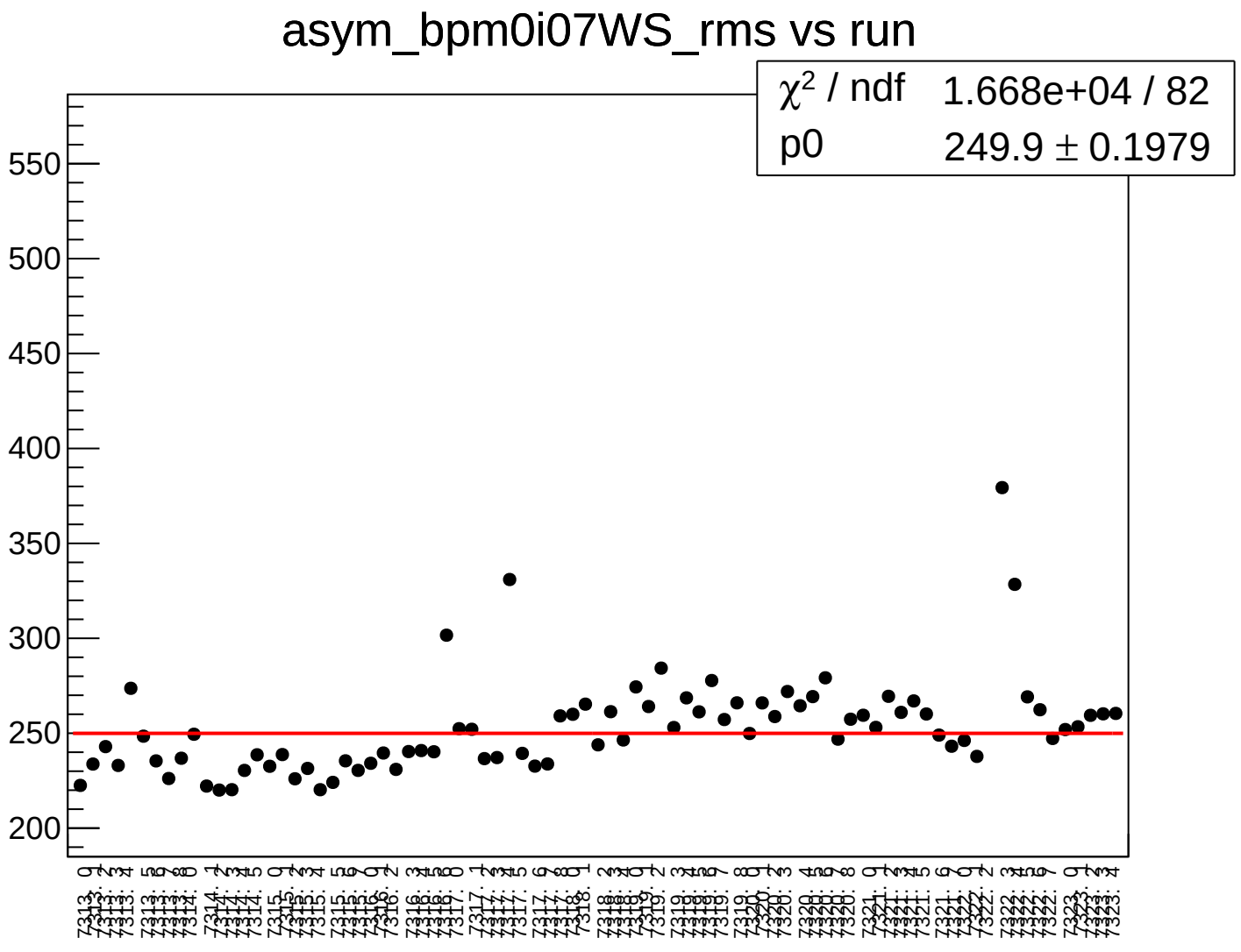

asym_bpm0i05WS_mean vs run
χ² / ndf 49.27 / 82
p0 4865 ± 235
pull
Entries 83
Mean −50.09
Std Dev 53.28

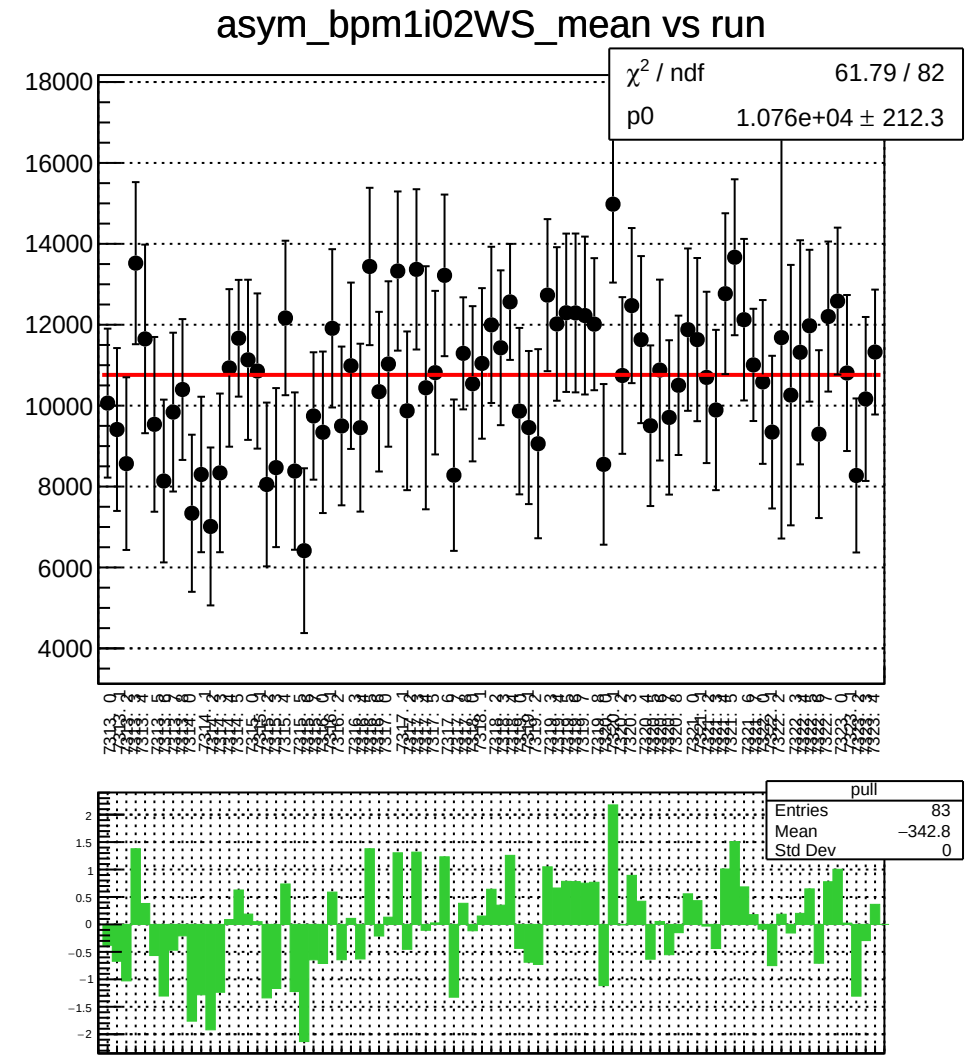

pull1D
Entries 83
Mean −0.008517
Std Dev 0.7704

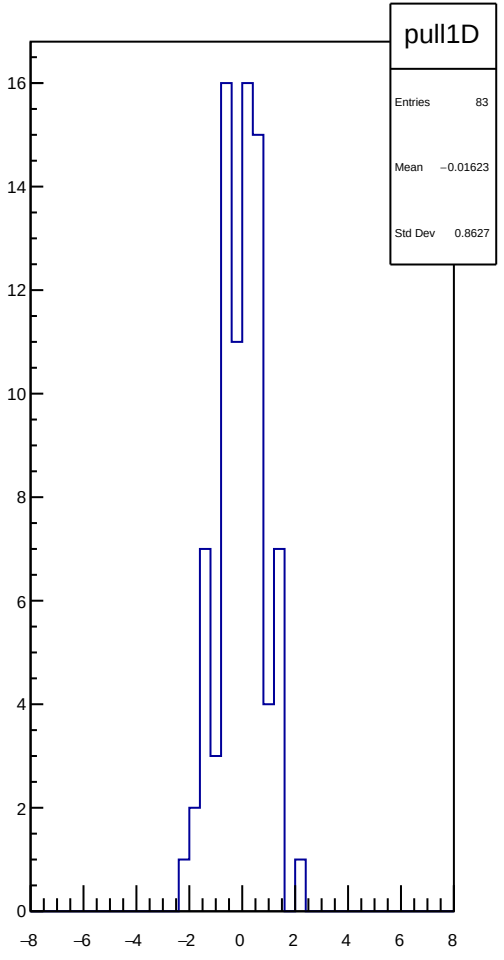

asym_bpm0i05WS_rms vs run
χ² / ndf 1.81e+04 / 82
p0 209.7 ± 0.1661
550
500
450
400
350
300
250
200


asym_bpm0i07WS_mean vs run
χ² / ndf 61.7 / 82
p0 4426 ± 279.9
pull
Entries 83
Mean −207.4
Std Dev 0

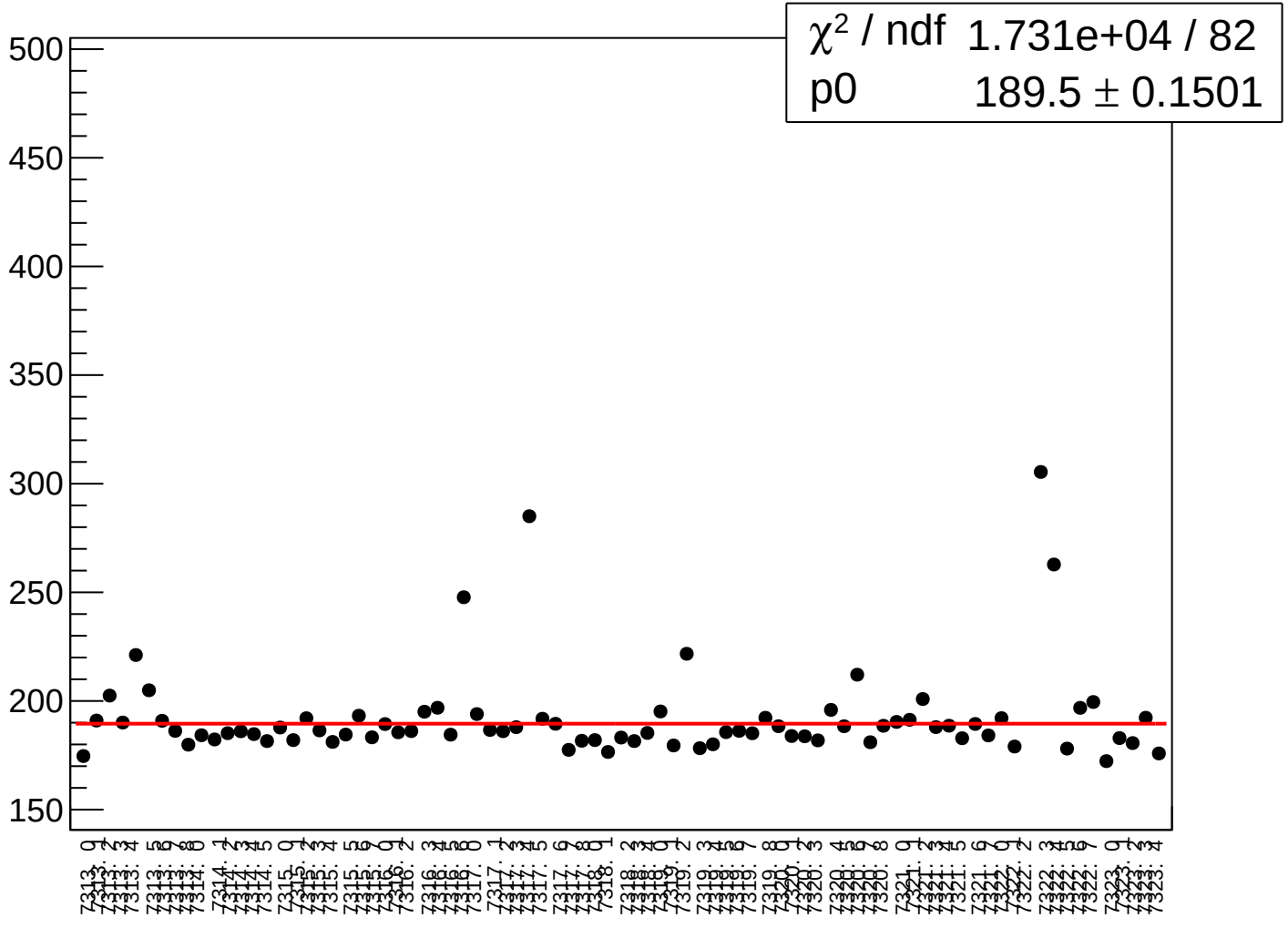

pull1D
Entries 83
Mean −0.002282
Std Dev 0.8622

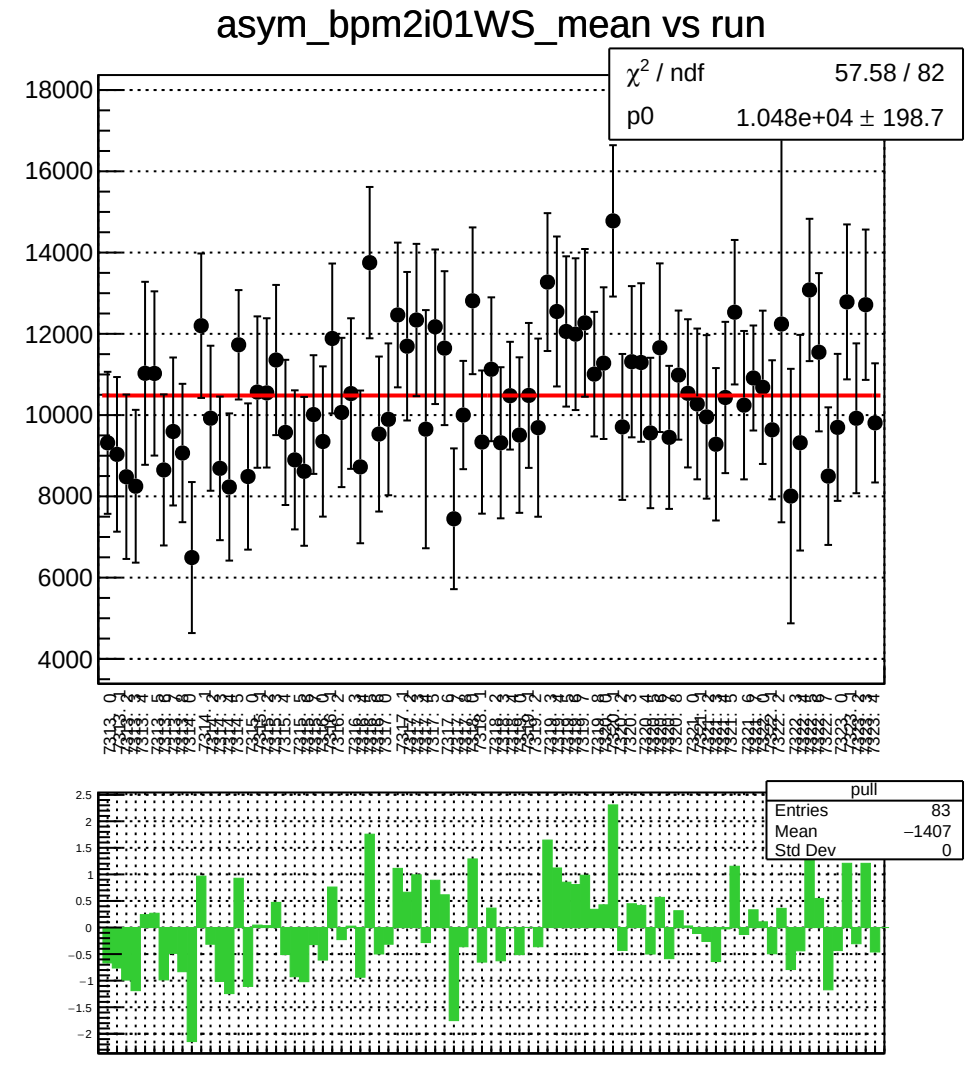

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.668e+04 / 82
p0 249.9 ± 0.1979
550
500
450
400
350
300
250
200

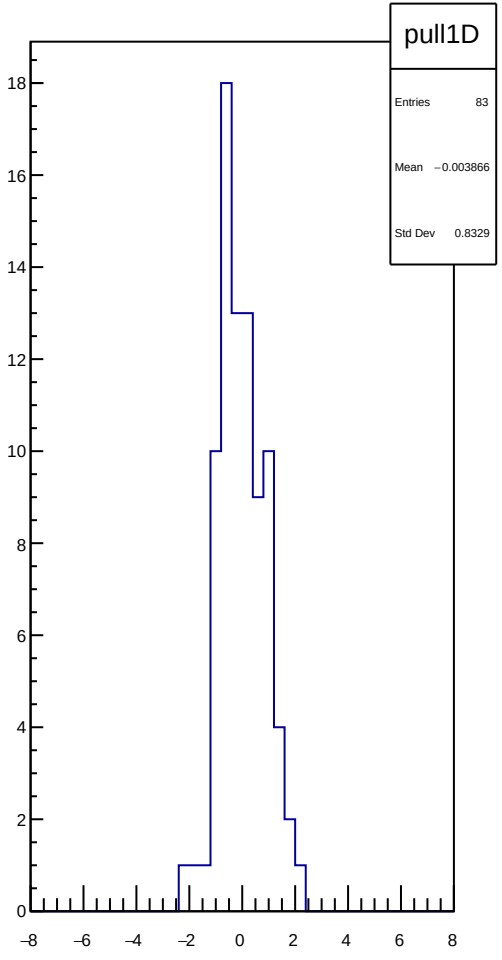

asym_bpm1i02WS_mean vs run
χ² / ndf 61.79 / 82
p0 1.076e+04 ± 212.3
pull
Entries 83
Mean −342.8
Std Dev 0

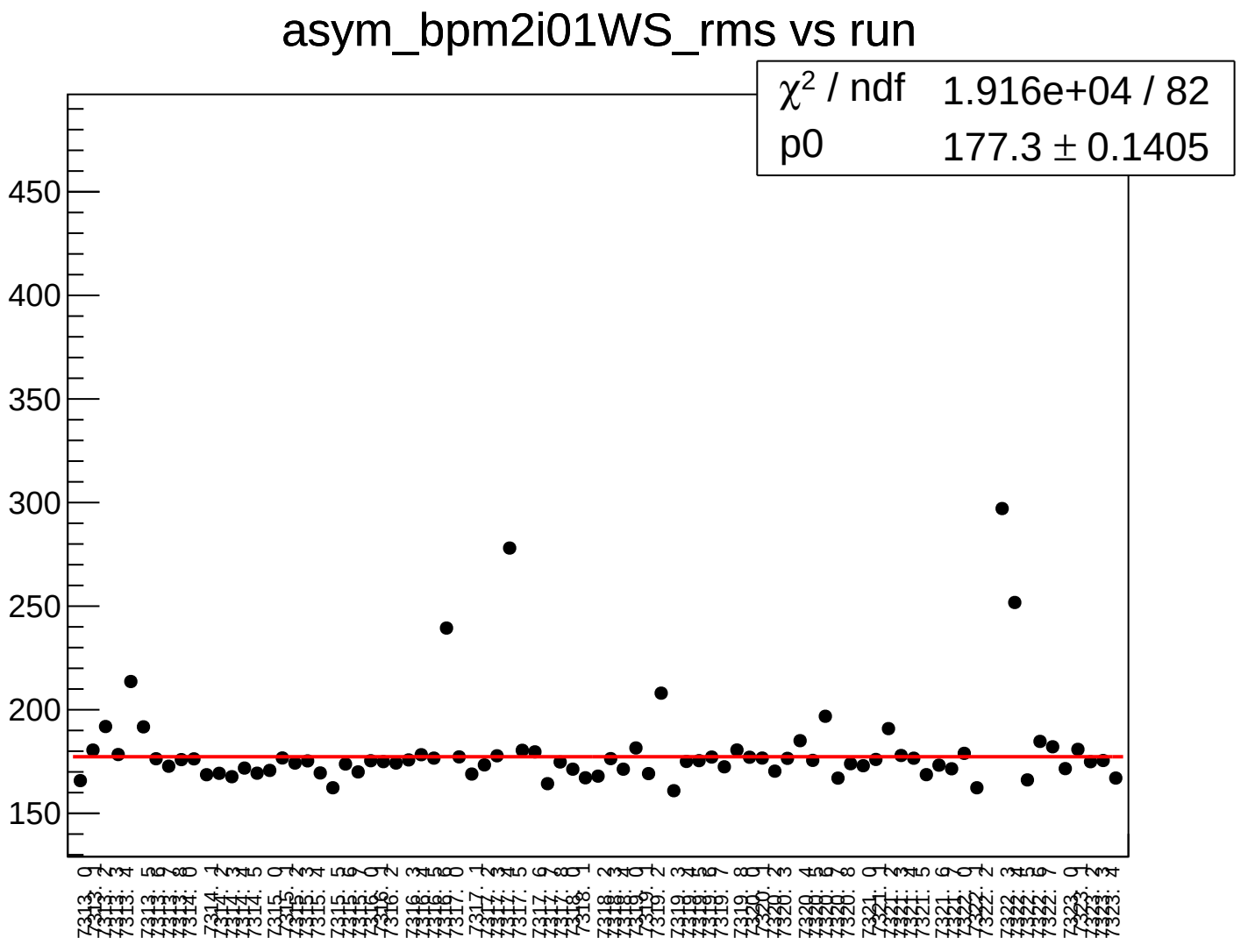

pull1D
Entries 83
Mean −0.01623
Std Dev 0.8627

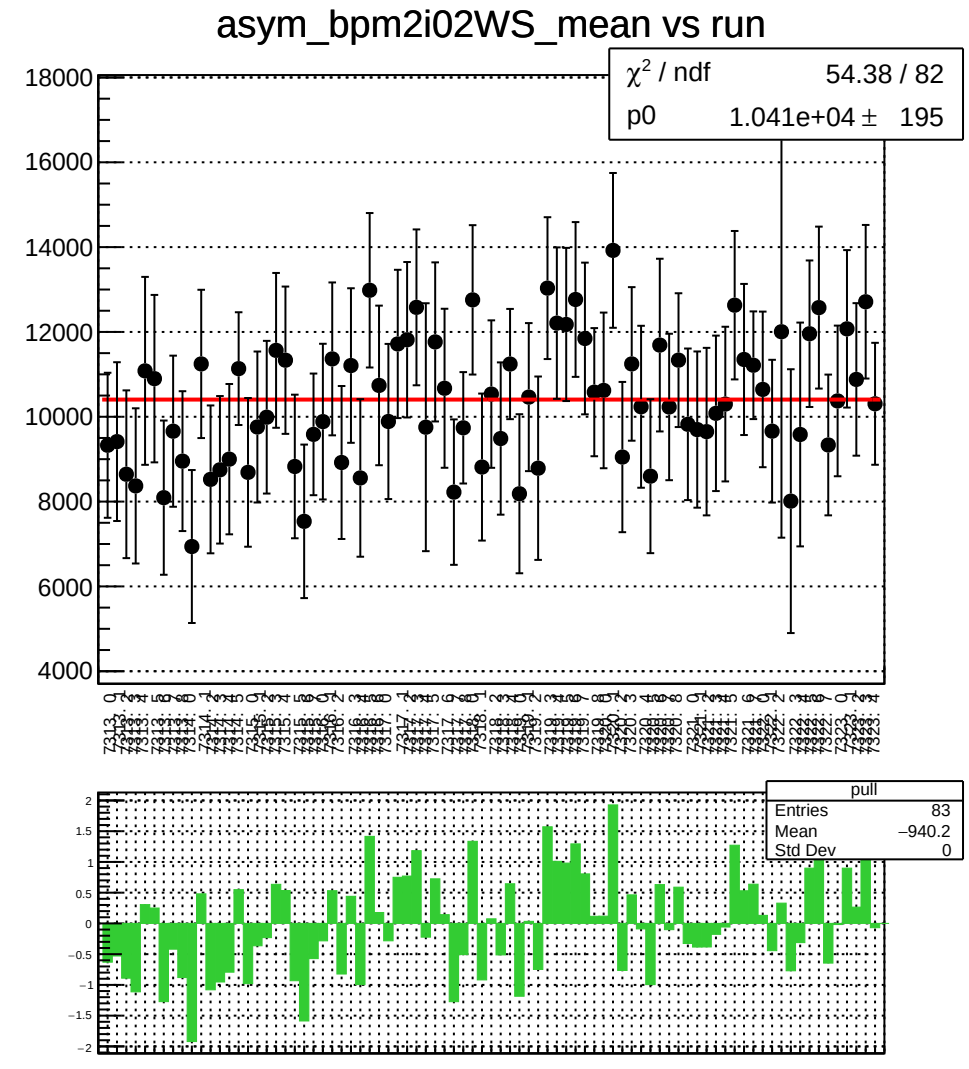
asym_bpm1i02WS_rms vs run

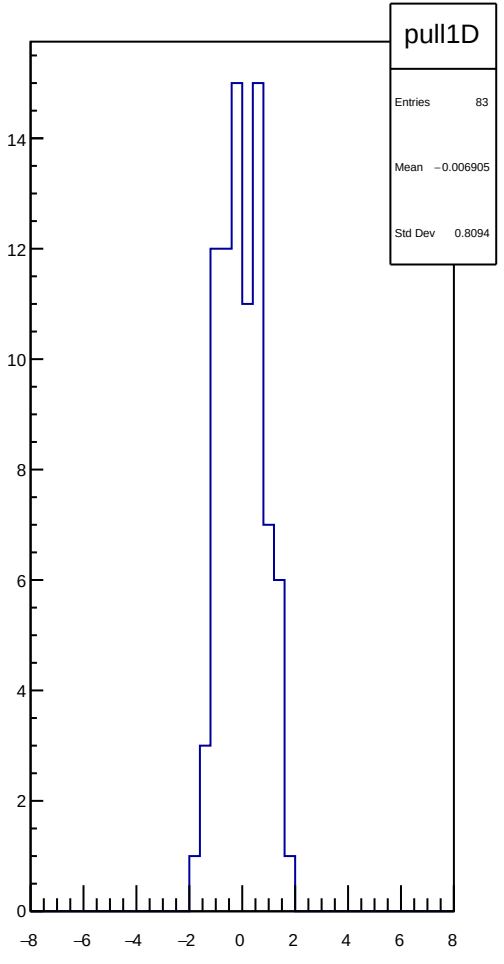


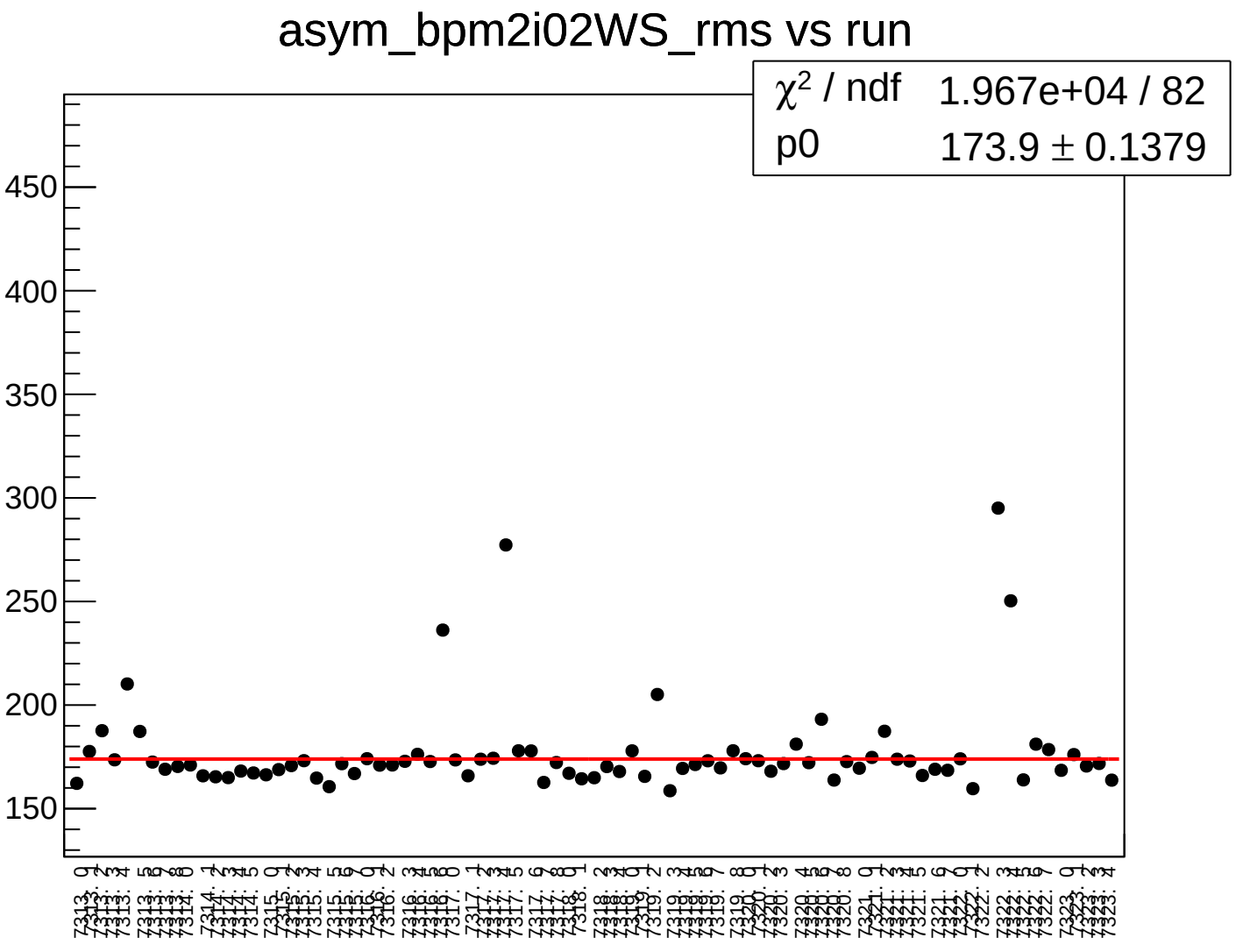

asym_bpm2i01WS_mean vs run
χ² / ndf 57.58 / 82
p0 1.048e+04 ± 198.7
pull
Entries 83
Mean −1407
Std Dev 0

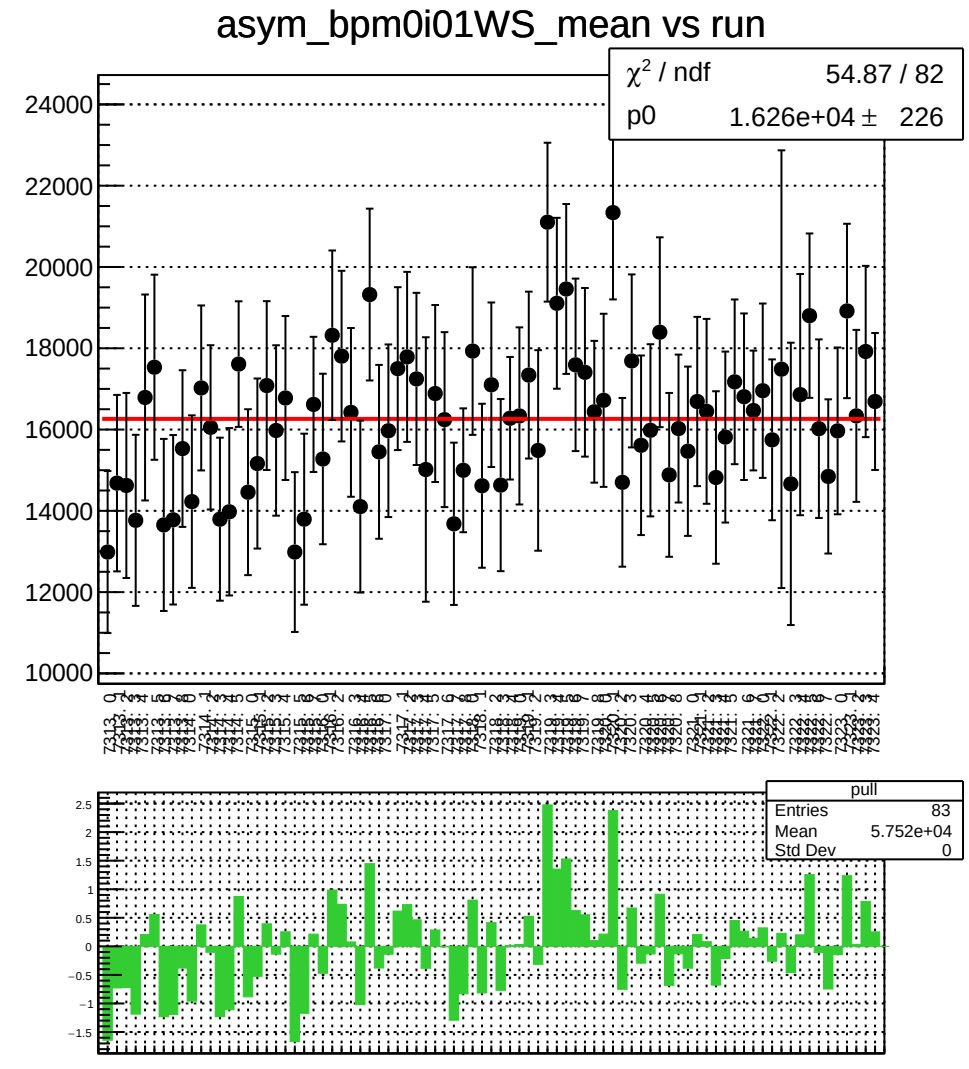

pull1D
Entries 83
Mean −0.003866
Std Dev 0.8329

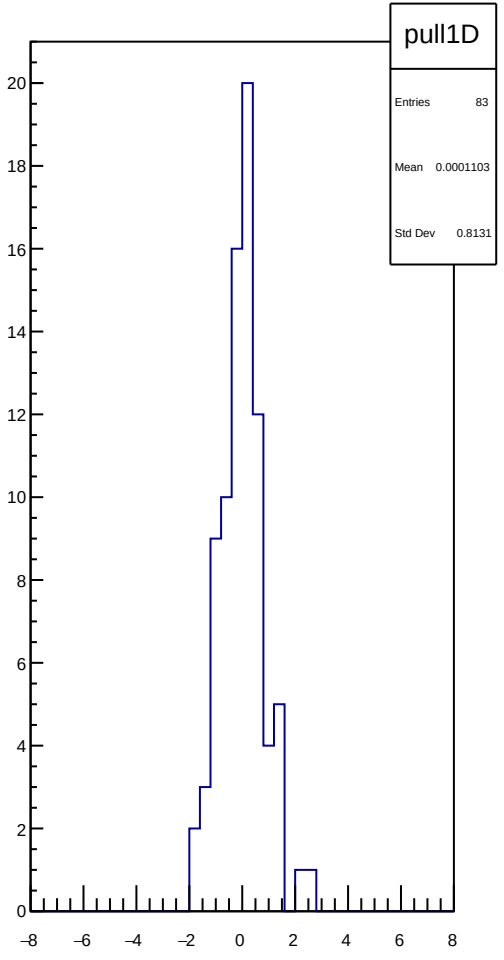

asym_bpm2i01WS_rms vs run
χ² / ndf 1.916e+04 / 82
p0 177.3 ± 0.1405
450
400
350
300
250
200
150

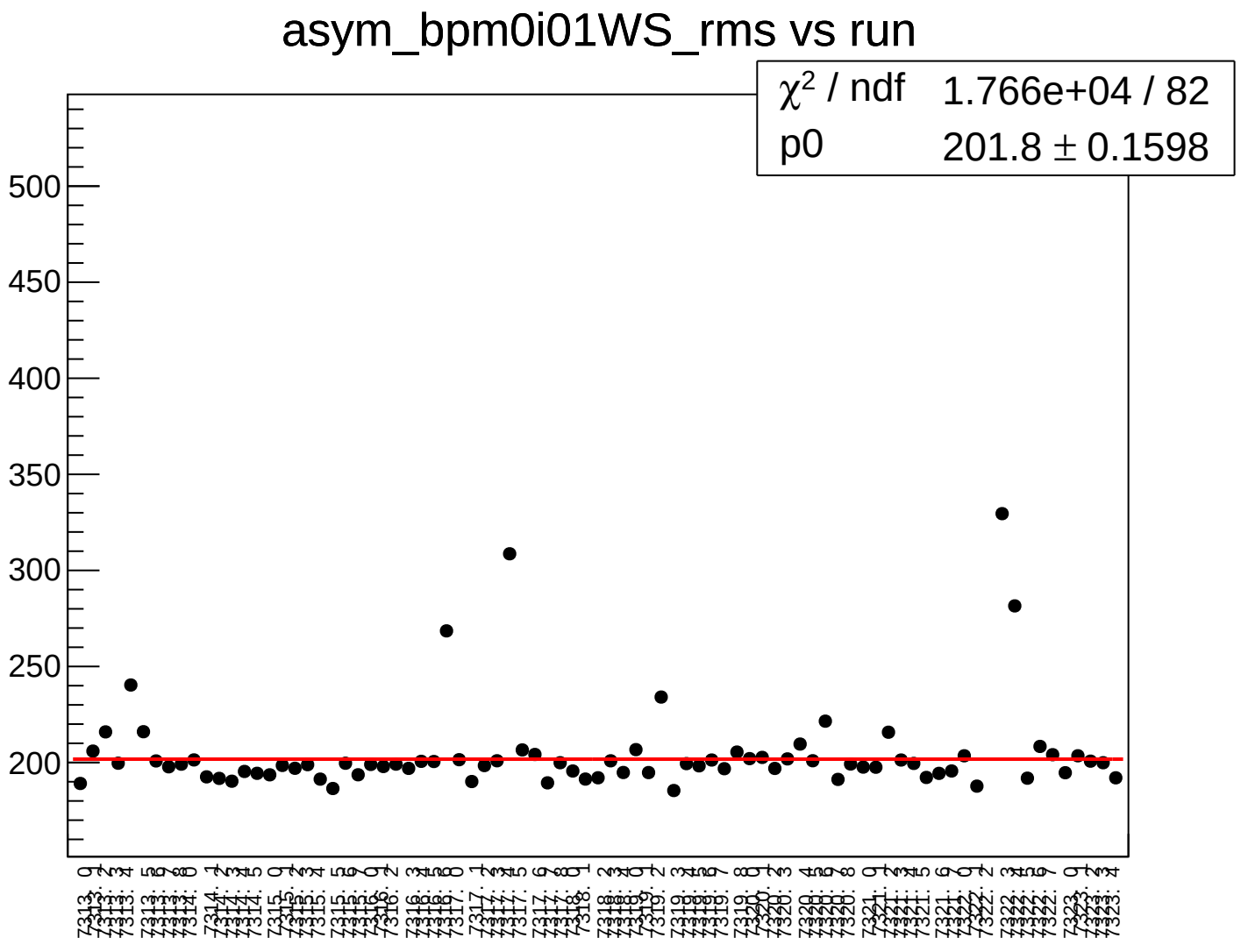

asym_bpm2i02WS_mean vs run
χ² / ndf 54.38 / 82
p0 1.041e+04 ± 195
pull
Entries 83
Mean −940.2
Std Dev 0

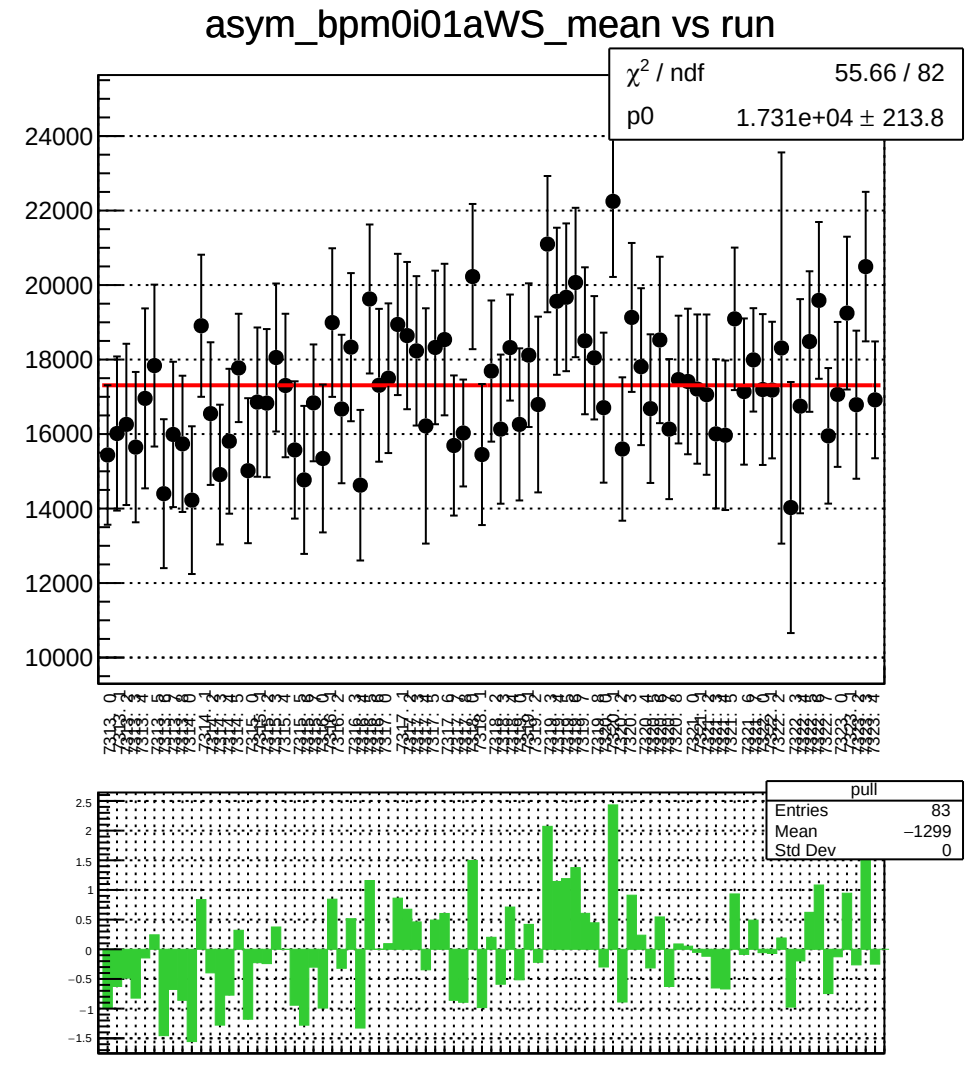

pull1D
Entries 83
Mean −0.006905
Std Dev 0.8094

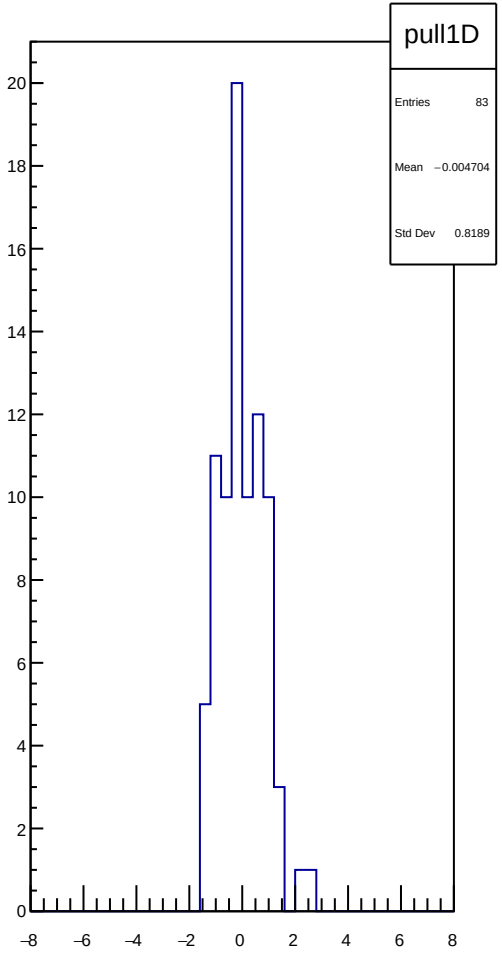

asym_bpm2i02WS_rms vs run
χ^2 / ndf 1.967e+04 / 82
p0 173.9 ± 0.1379
450
400
350
300
250
200
150

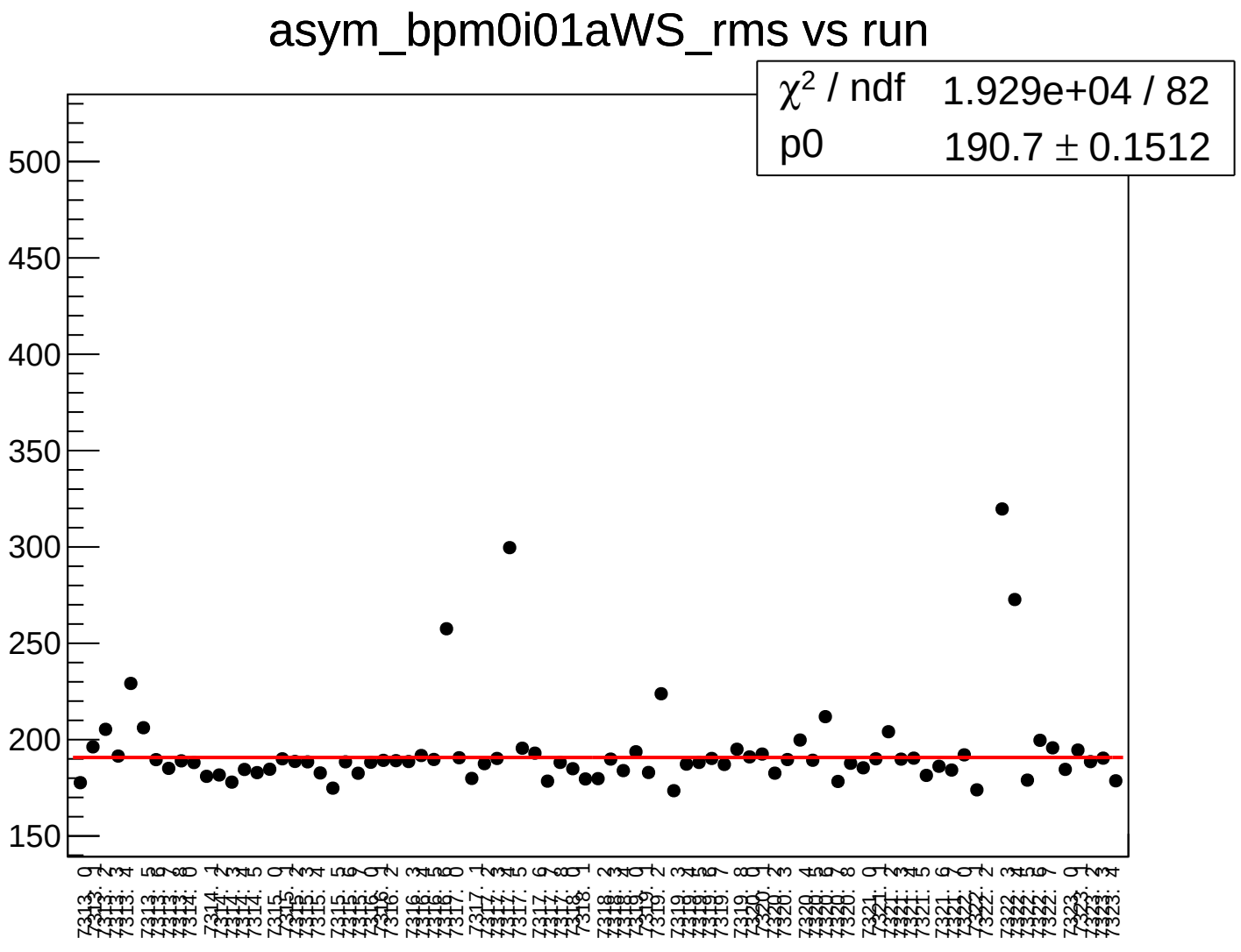

asym_bpm0i01WS_mean vs run
χ² / ndf 54.87 / 82
p0 1.626e+04 ± 226
pull
Entries 83
Mean 5.752e+04
Std Dev 0

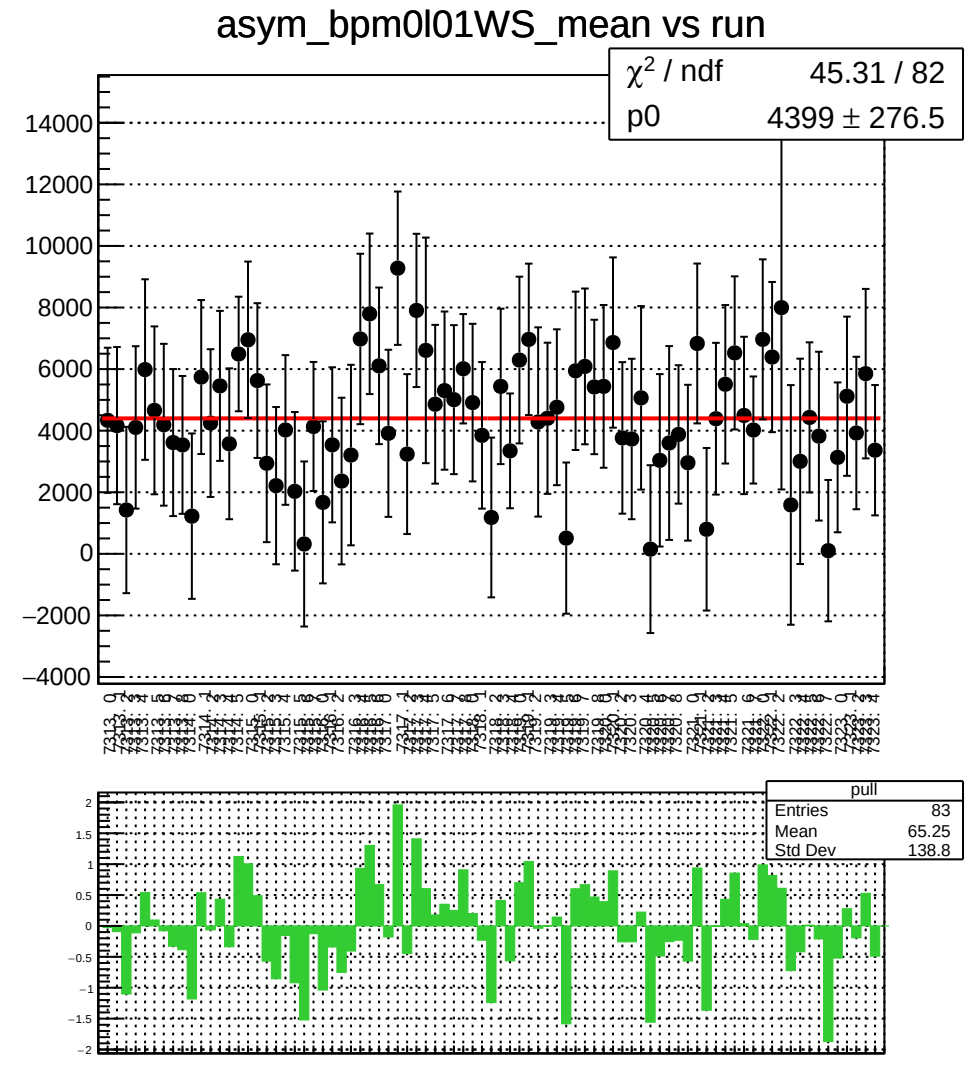

pull1D
Entries 83
Mean 0.0001103
Std Dev 0.8131

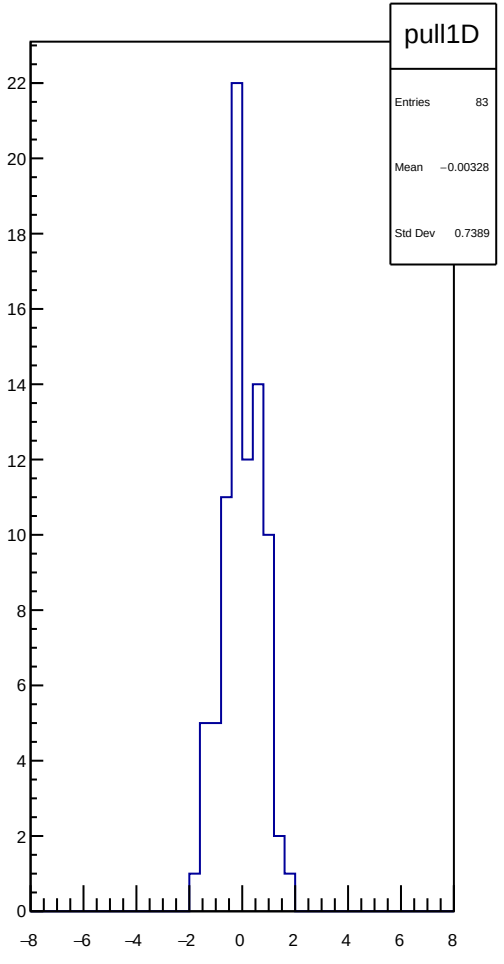

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.766e+04 / 82
p0 201.8 ± 0.1598
500
450
400
350
300
250
200

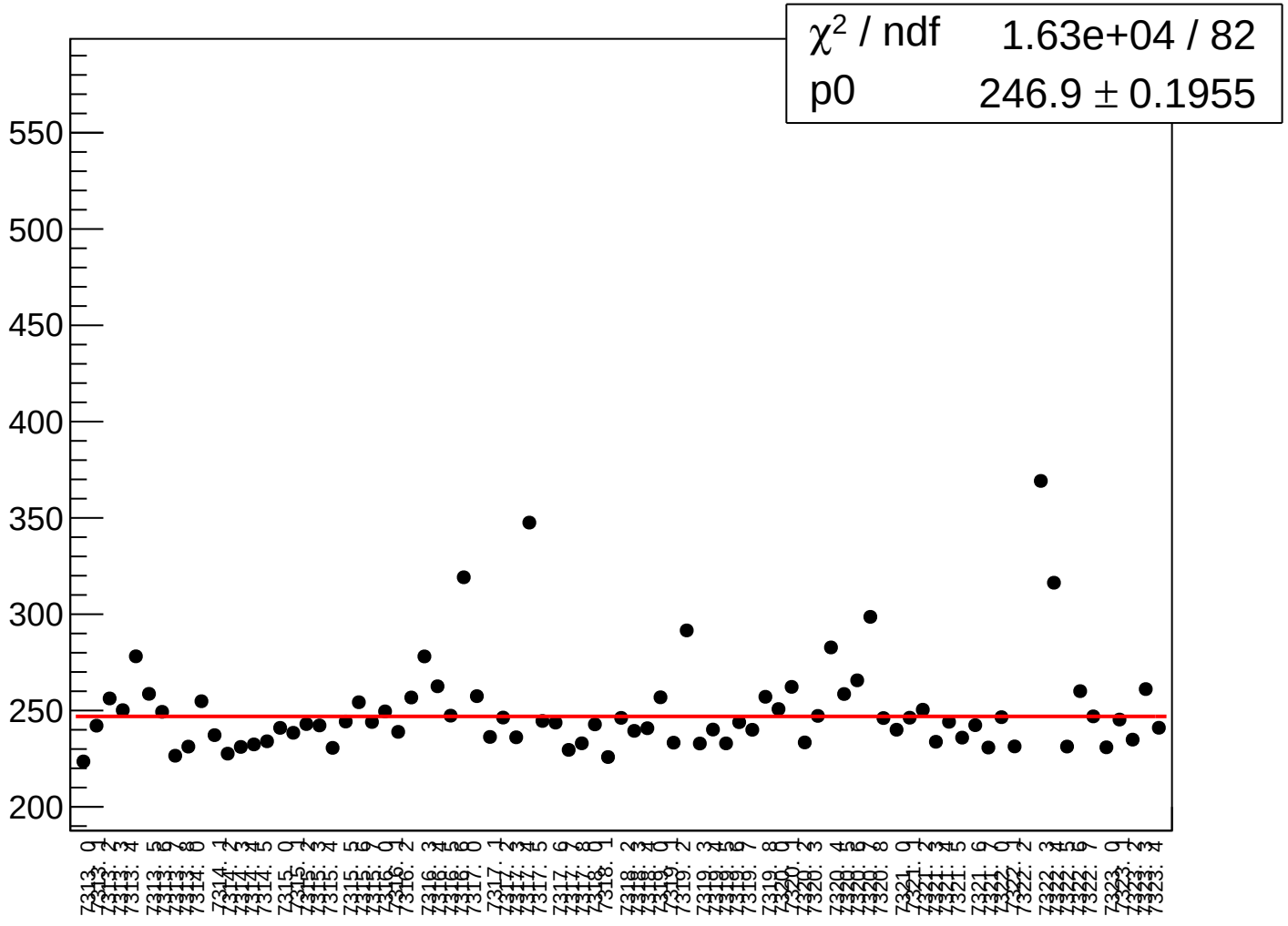

asym_bpm0i01aWS_mean vs run
χ² / ndf 55.66 / 82
p0 1.731e+04 ± 213.8
pull
Entries 83
Mean −1299
Std Dev 0

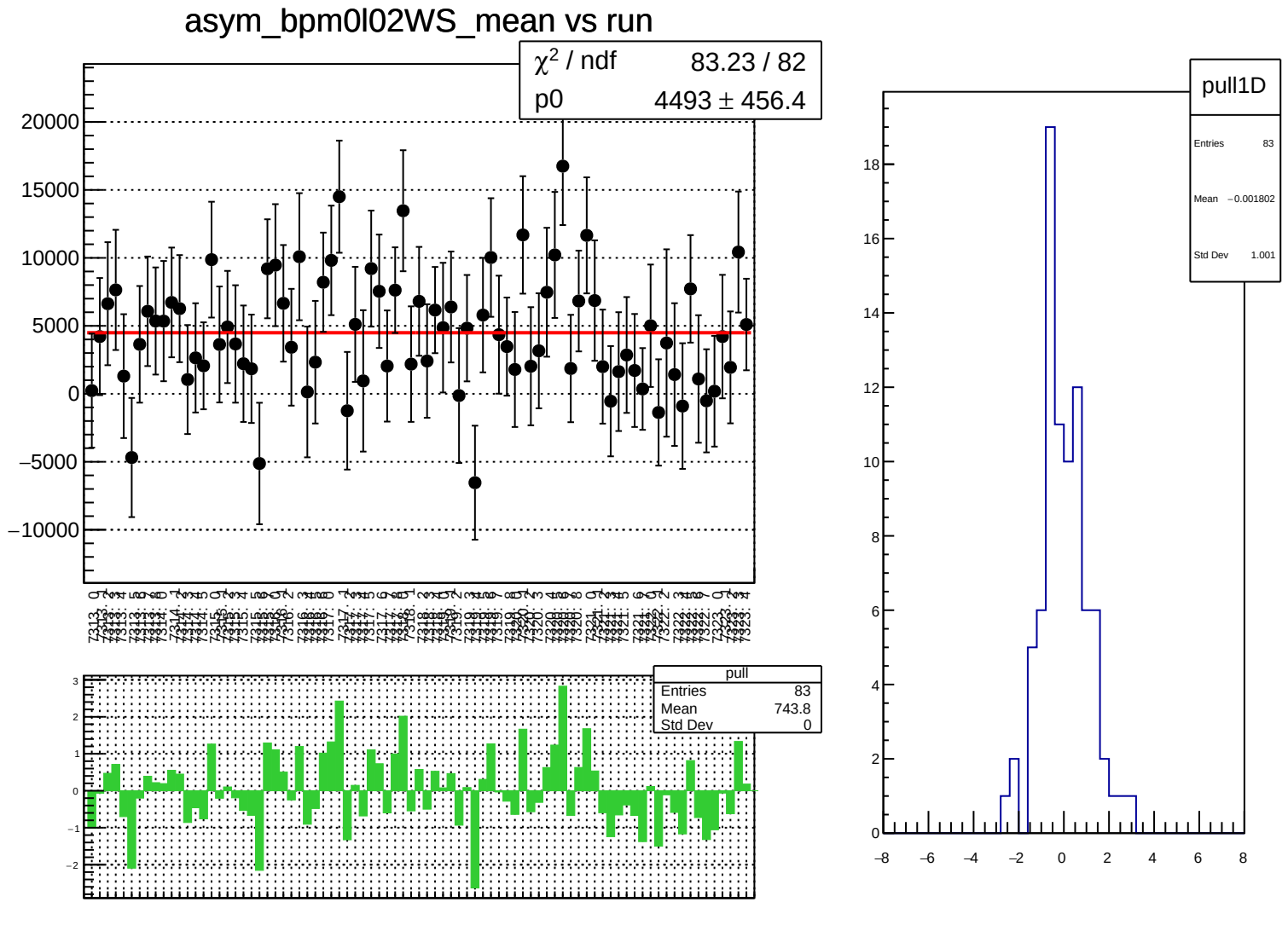

pull1D
Entries 83
Mean −0.004704
Std Dev 0.8189

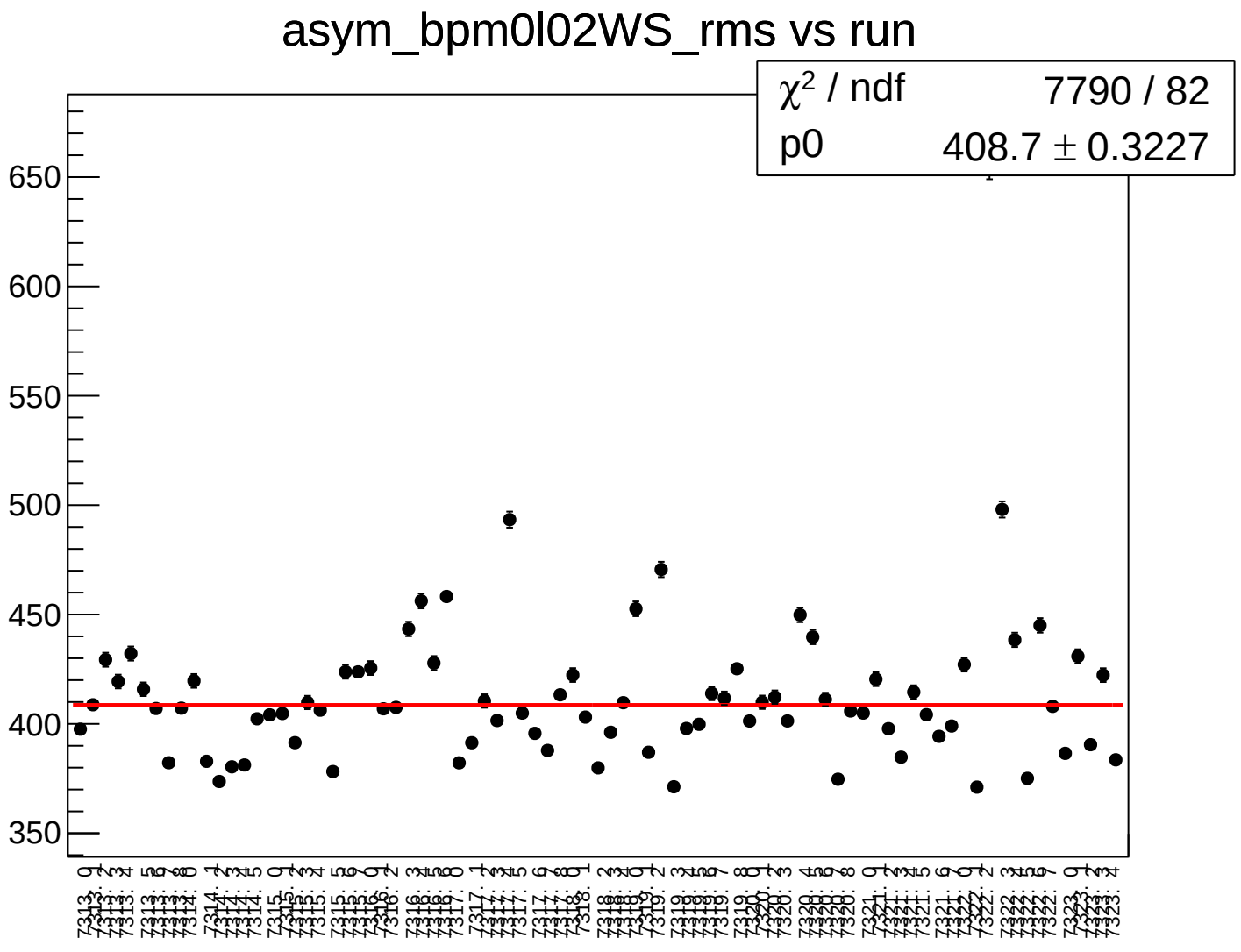

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.929e+04 / 82
p0 190.7 ± 0.1512
500
450
400
350
300
250
200
150

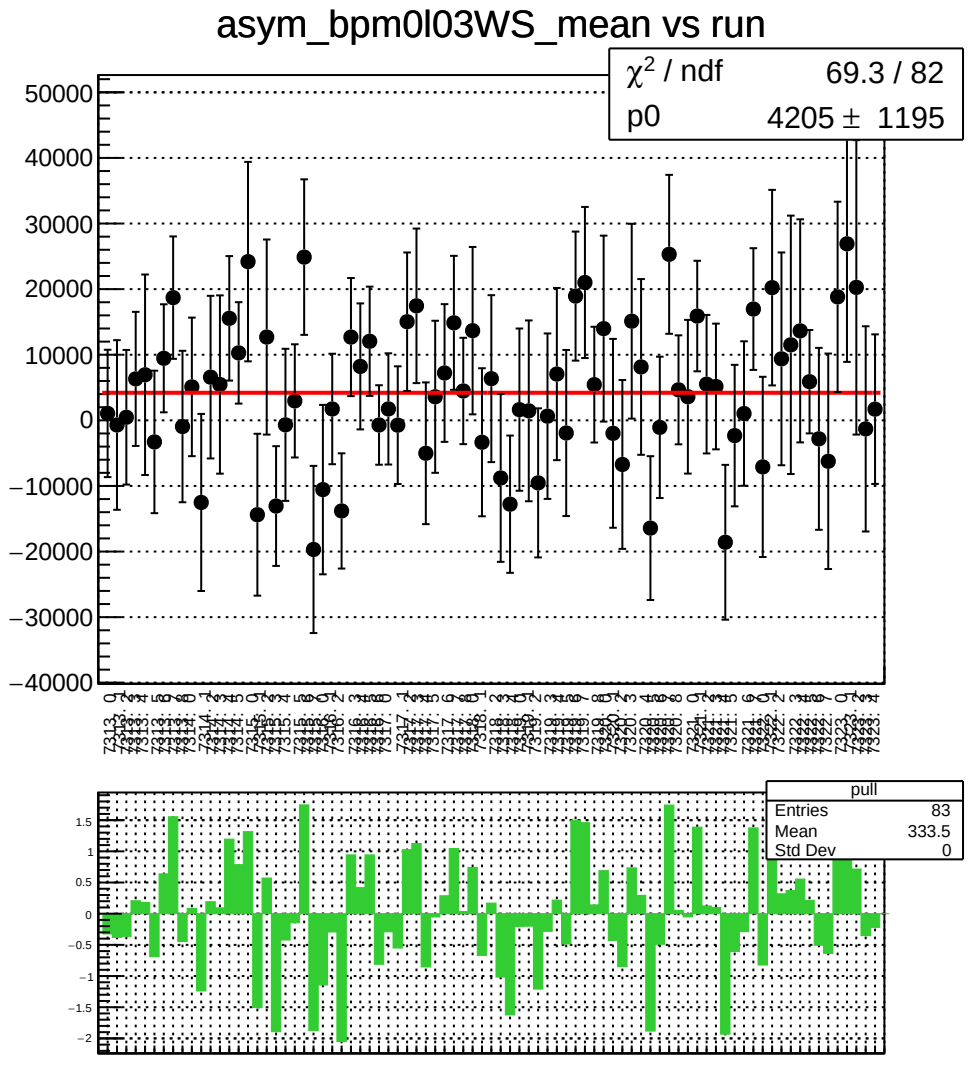

asym_bpm0l01WS_mean vs run
χ² / ndf 45.31 / 82
p0 4399 ± 276.5
pull
Entries 83
Mean 65.25
Std Dev 138.8

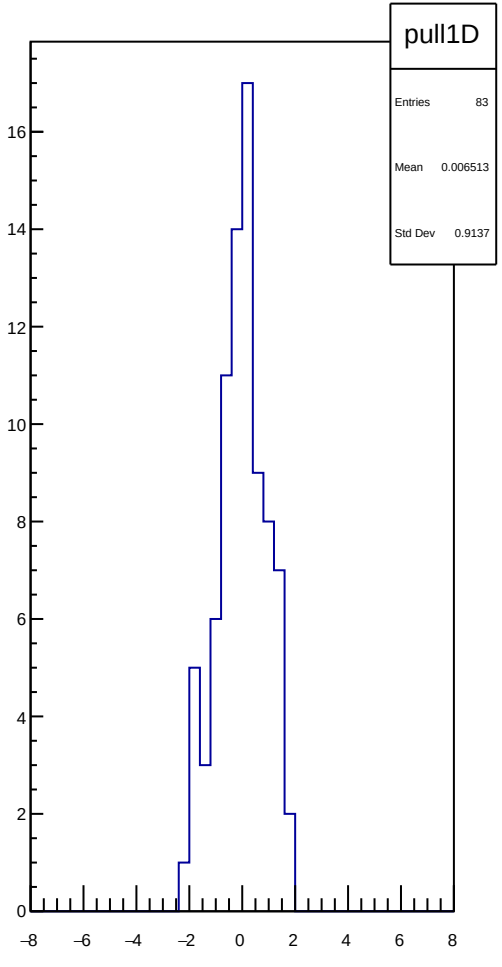

pull1D
Entries 83
Mean −0.00328
Std Dev 0.7389

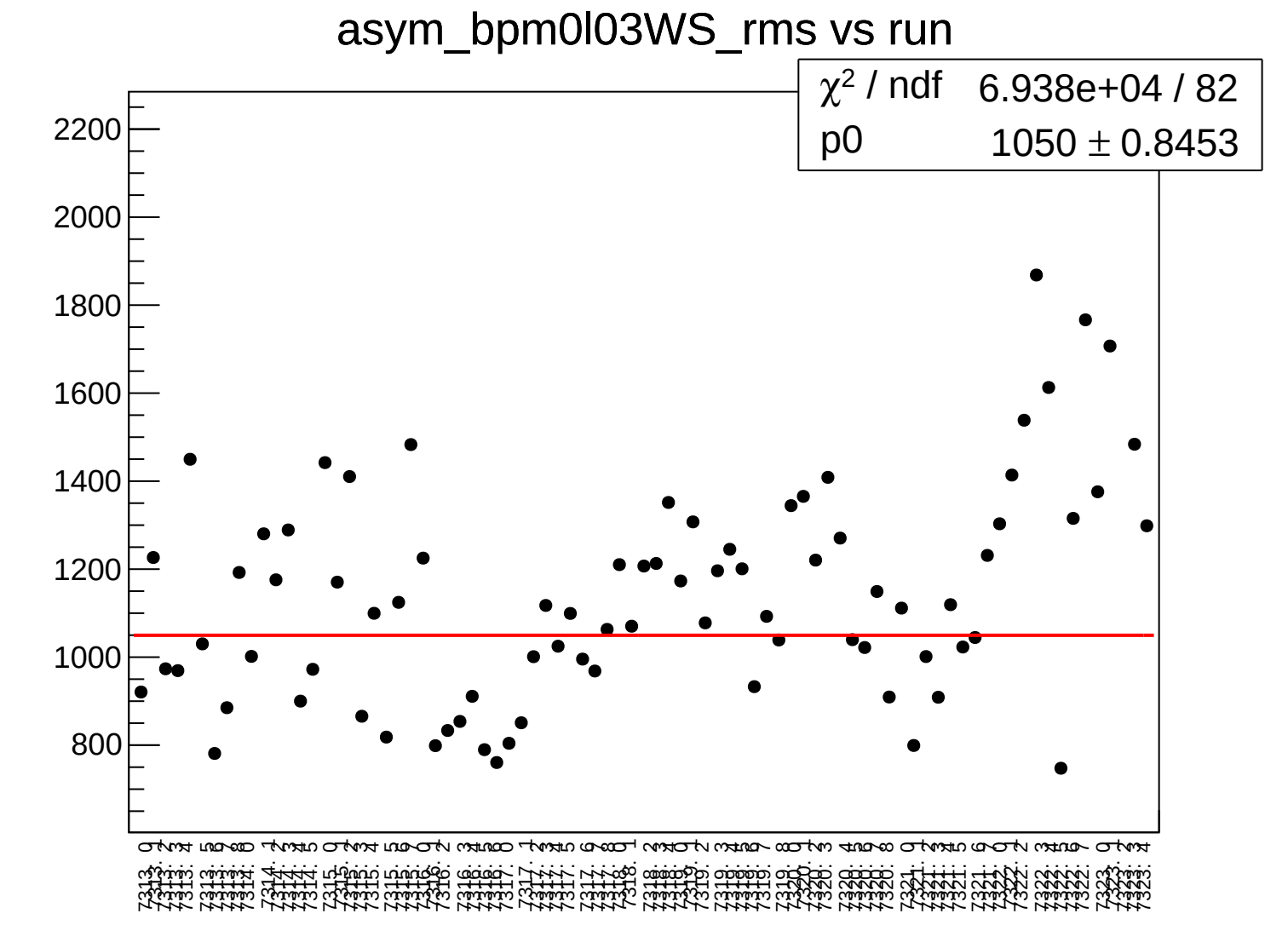

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.63e+04 / 82
p0 246.9 ± 0.1955
550
500
450
400
350
300
250
200

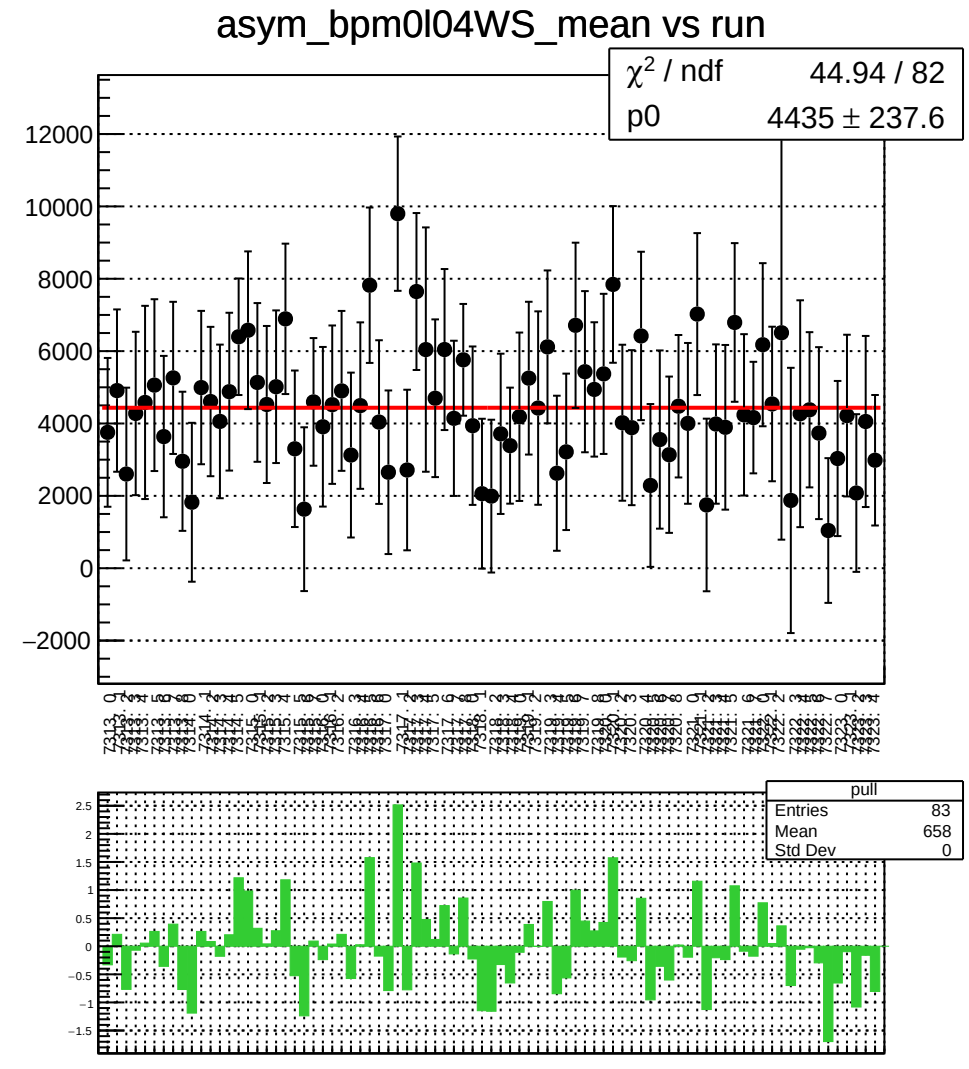

asym_bpm0l02WS_mean vs run
χ^2 / ndf 83.23 / 82
p0 4493 ± 456.4
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 743.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.001802
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

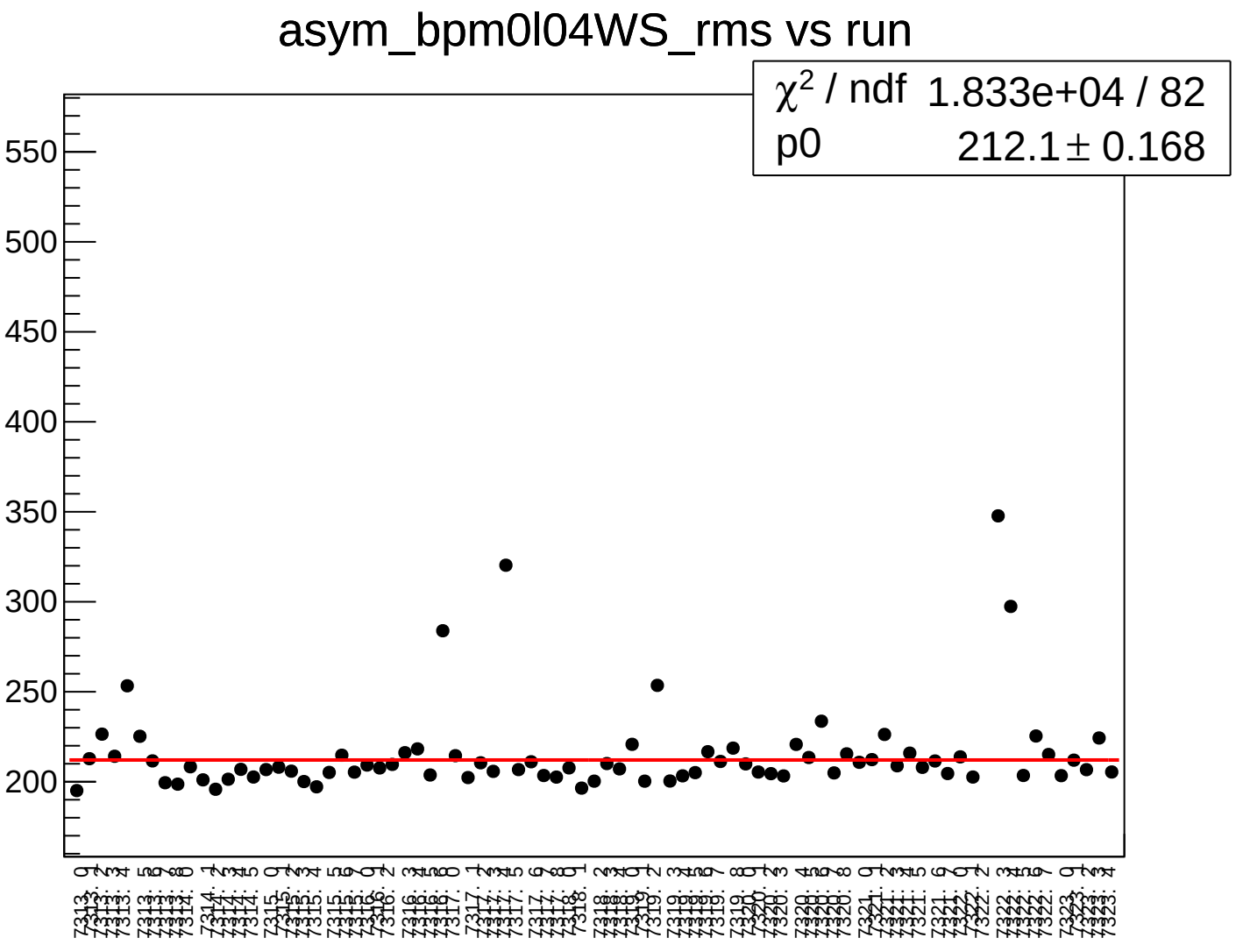

asym_bpm0l02WS_rms vs run
χ² / ndf 7790 / 82
p0 408.7 ± 0.3227
650
600
550
500
450
400
350

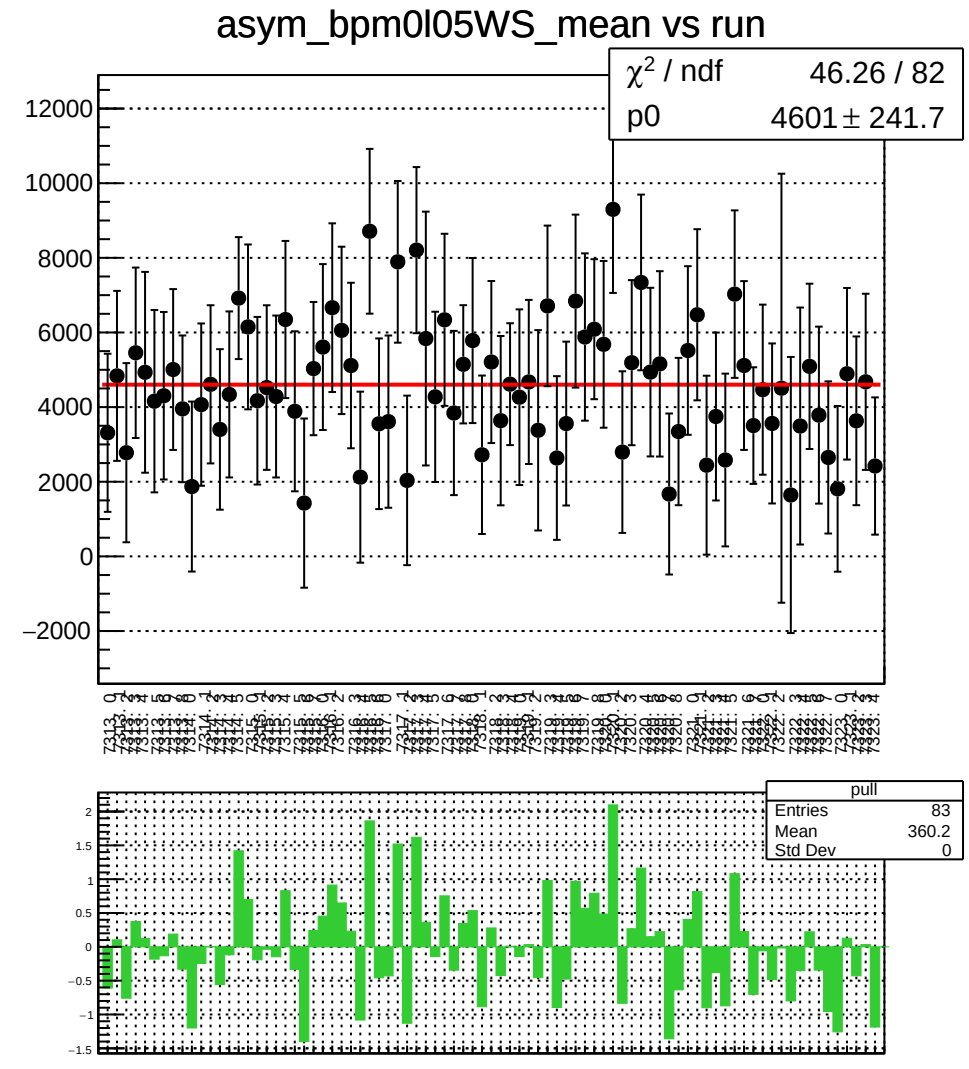

asym_bpm0l03WS_mean vs run
χ^2 / ndf 69.3 / 82
p0 4205 ± 1195
pull
Entries 83
Mean 333.5
Std Dev 0

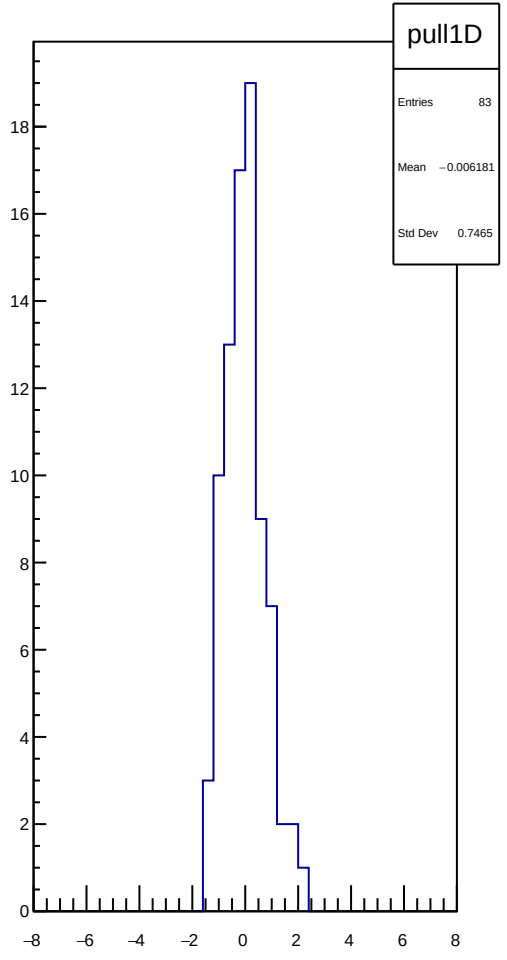

pull1D
Entries 83
Mean 0.006513
Std Dev 0.9137

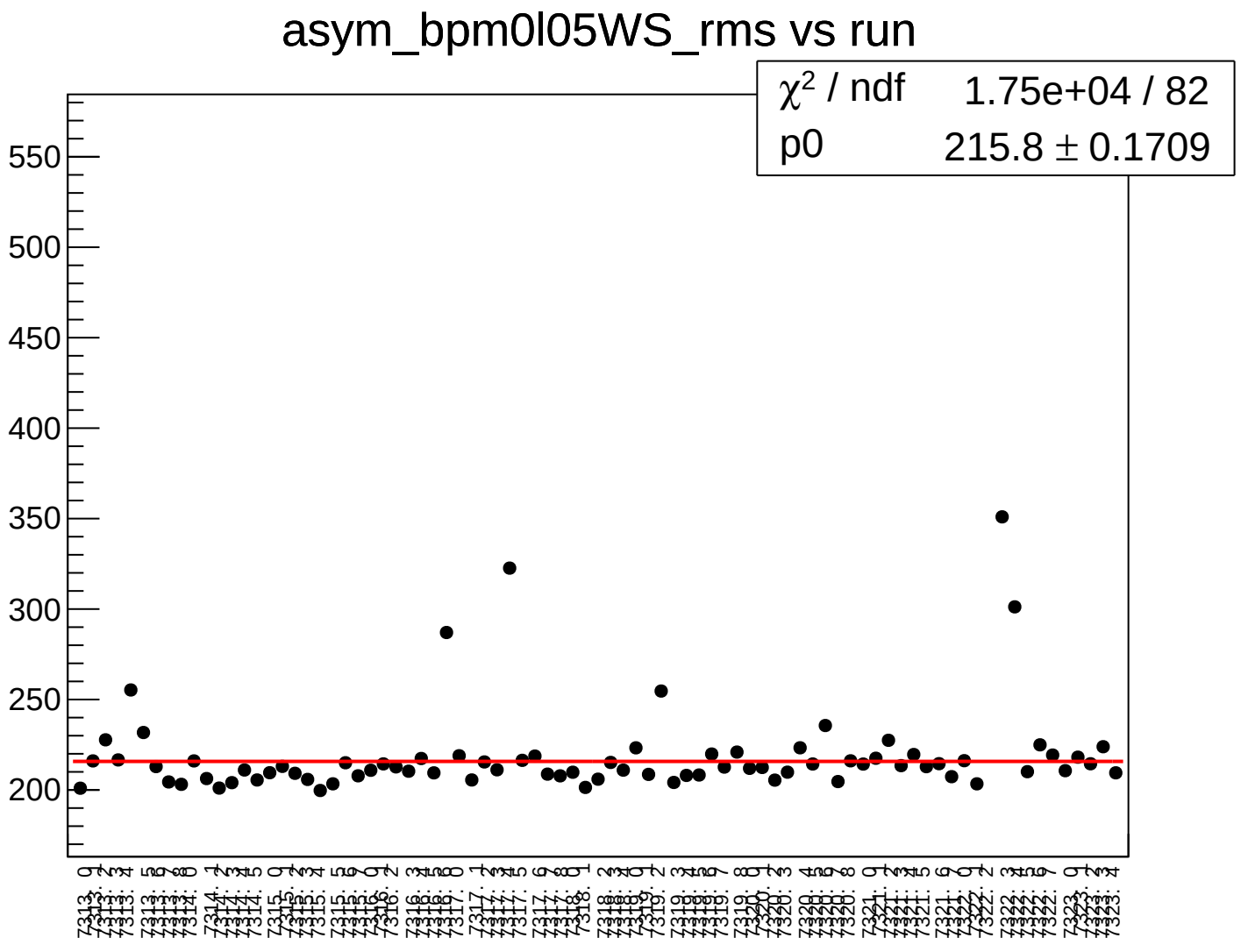

asym_bpm0l03WS_rms vs run
χ² / ndf 6.938e+04 / 82
p0 1050 ± 0.8453
2200
2000
1800
1600
1400
1200
1000
800

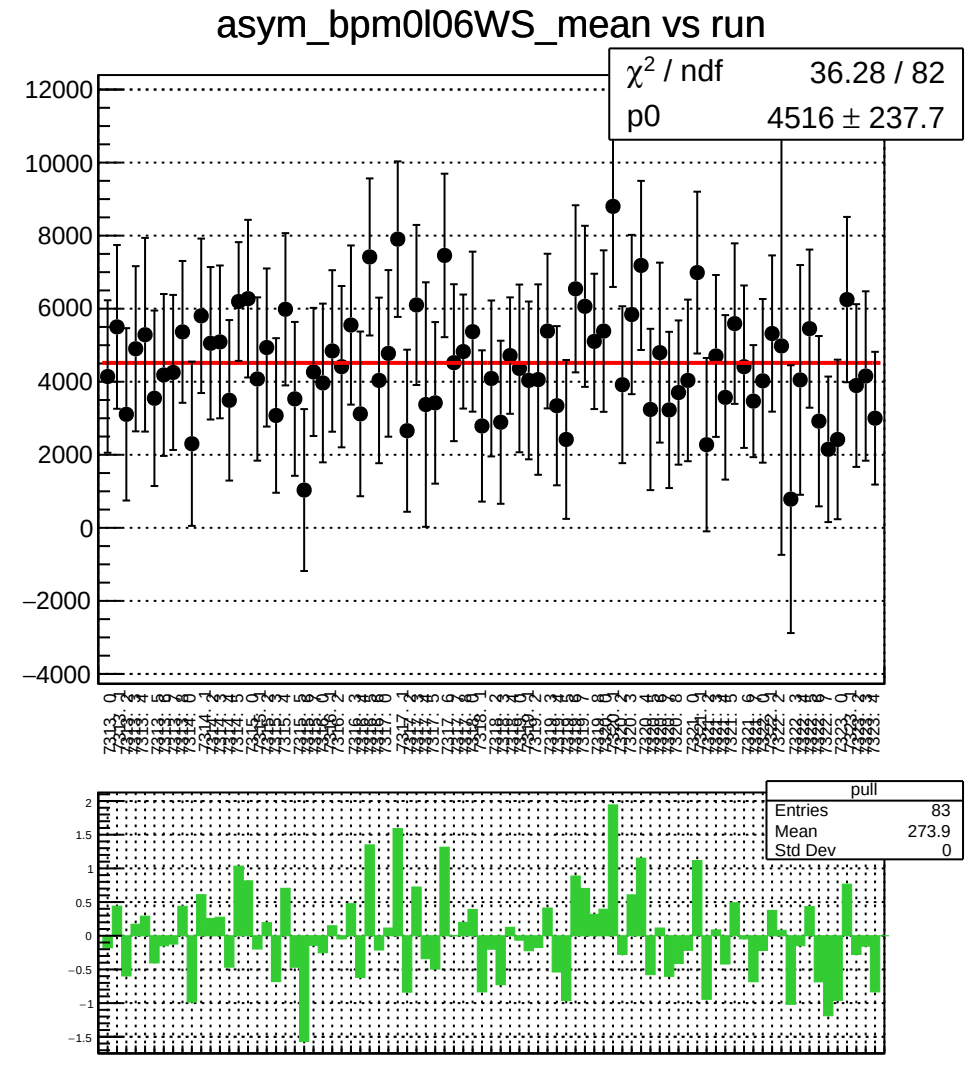

asym_bpm0l04WS_mean vs run
χ² / ndf 44.94 / 82
p0 4435 ± 237.6
pull
Entries 83
Mean 658
Std Dev 0
pull1D
Entries 83
Mean −0.003588
Std Dev 0.7358

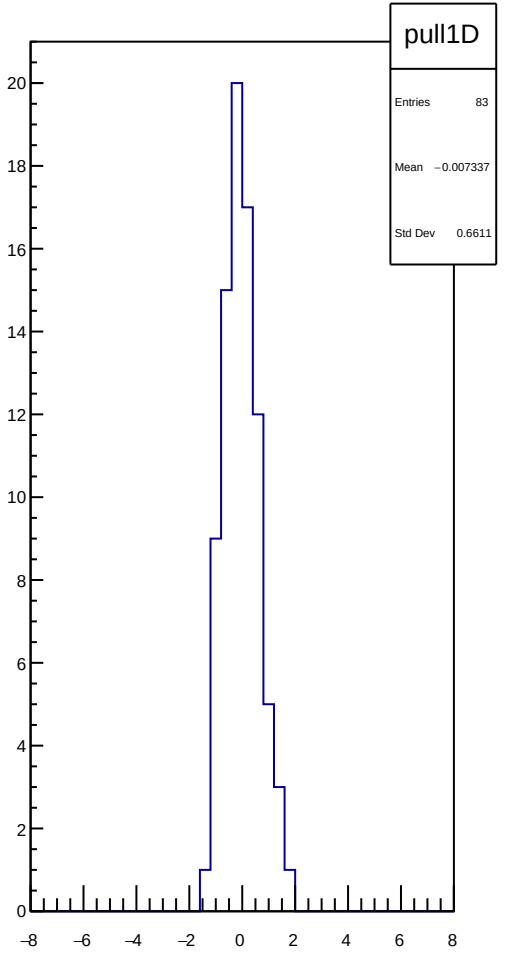

asym_bpm0l04WS_rms vs run
χ² / ndf 1.833e+04 / 82
p0 212.1 ± 0.168
550
500
450
400
350
300
250
200

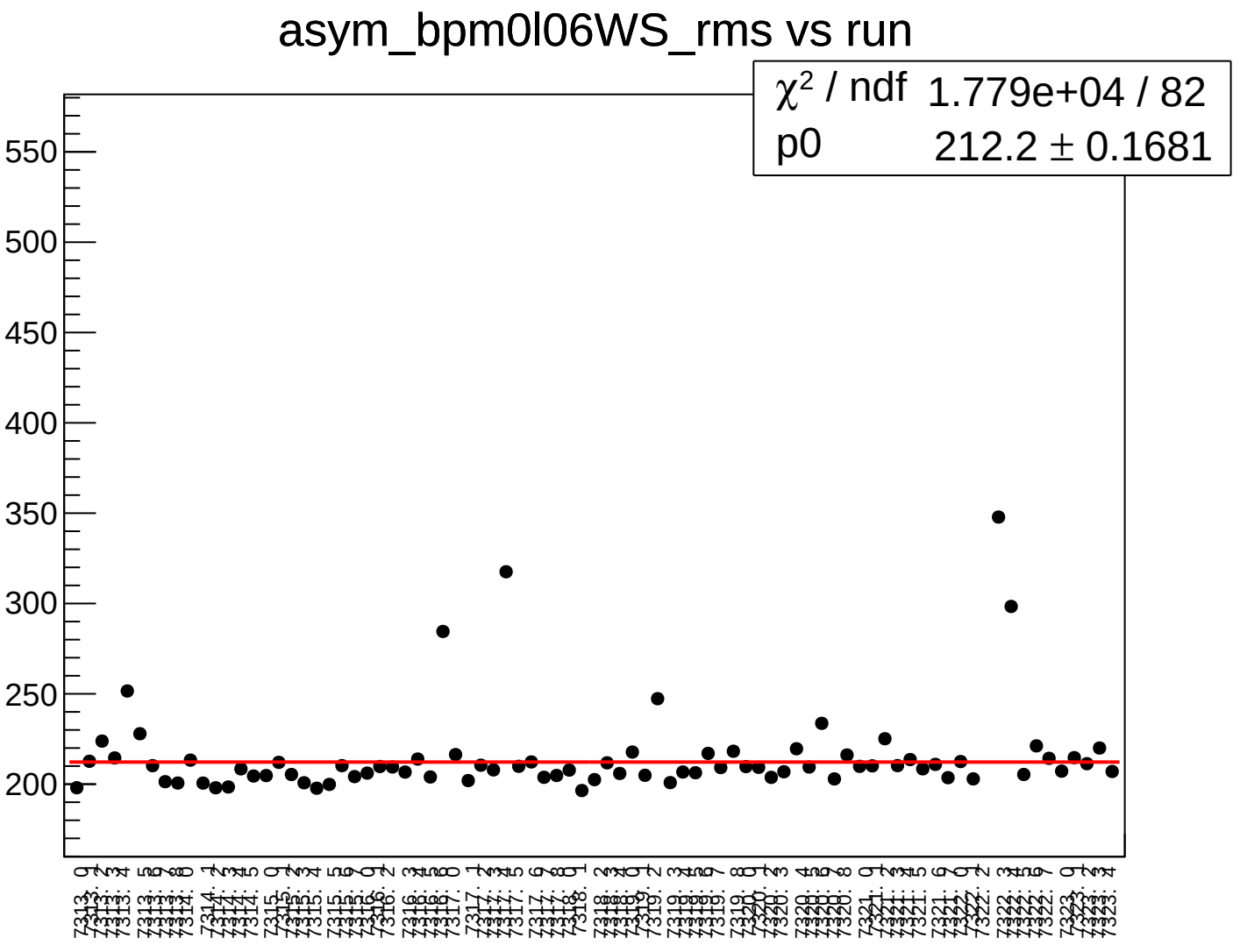

asym_bpm0l05WS_mean vs run
χ² / ndf 46.26 / 82
p0 4601 ± 241.7
pull
Entries 83
Mean 360.2
Std Dev 0

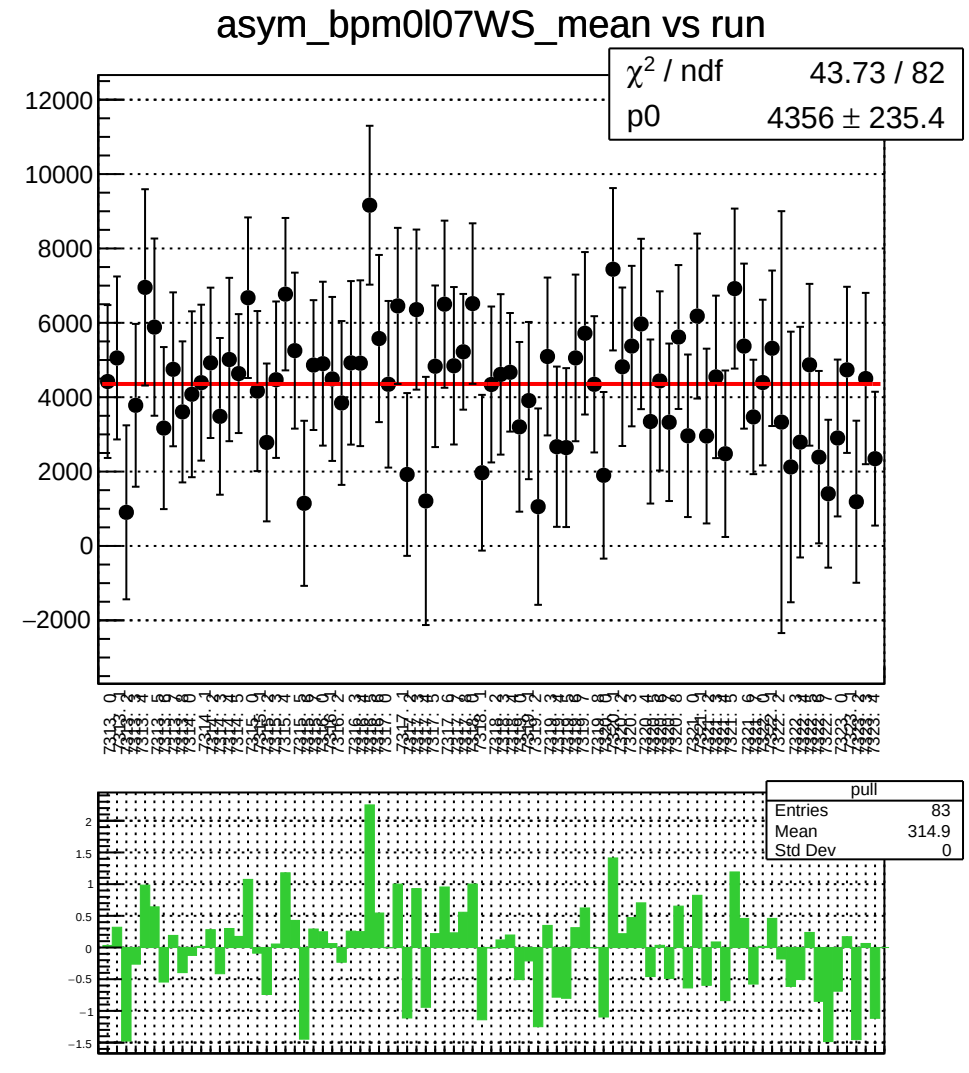

pull1D
Entries 83
Mean −0.006181
Std Dev 0.7465

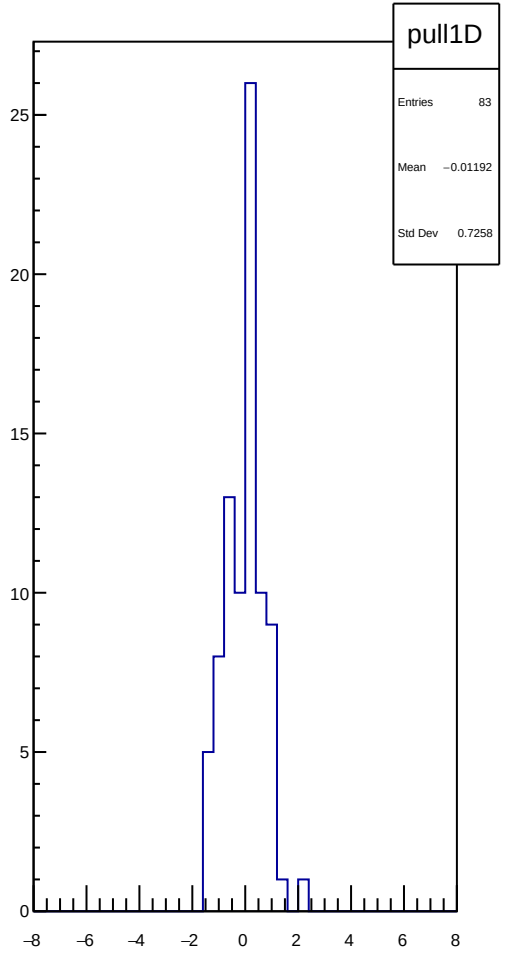

asym_bpm0l05WS_rms vs run
χ² / ndf 1.75e+04 / 82
p0 215.8 ± 0.1709
550
500
450
400
350
300
250
200

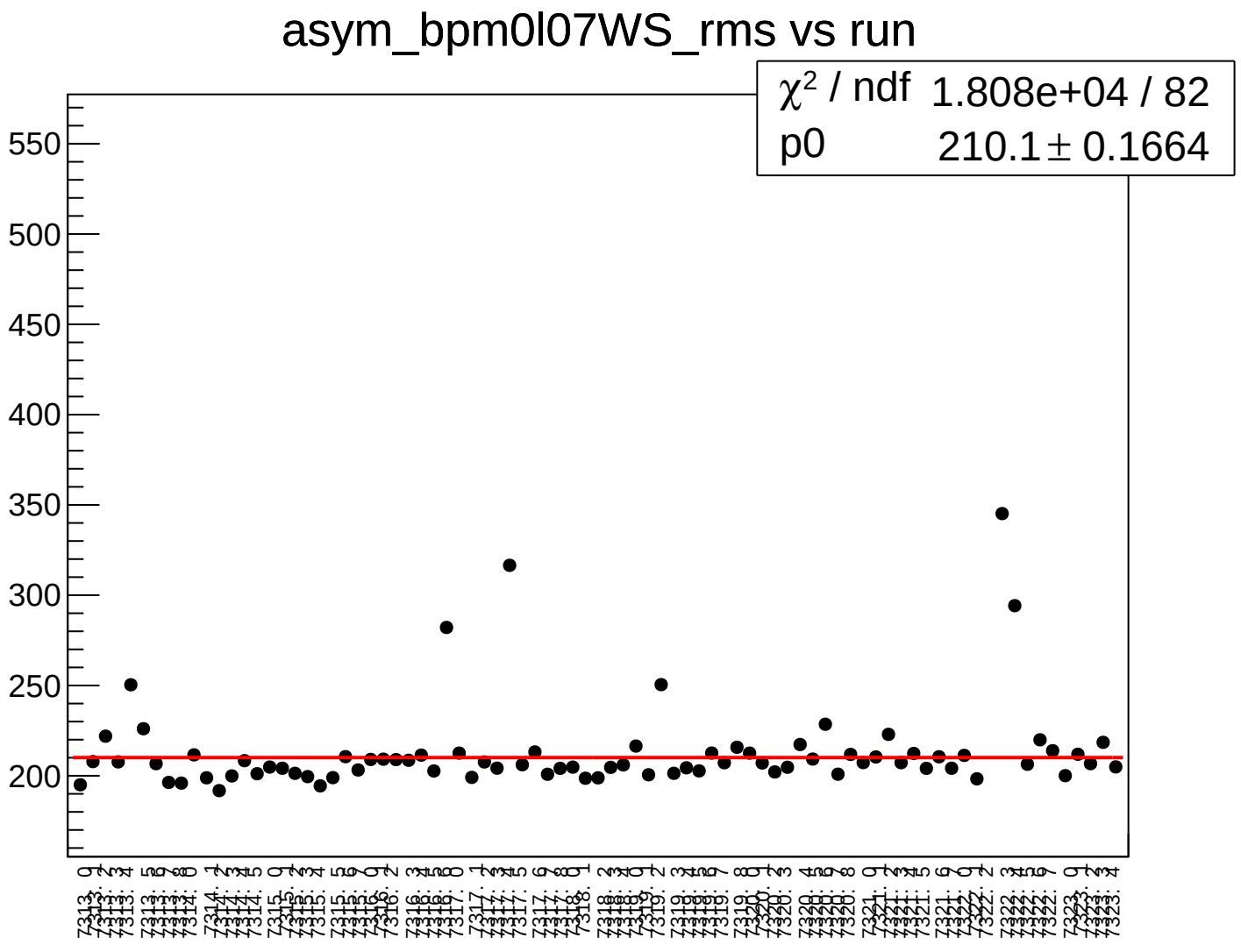

asym_bpm0l06WS_mean vs run
χ² / ndf 36.28 / 82
p0 4516 ± 237.7
pull
Entries 83
Mean 273.9
Std Dev 0

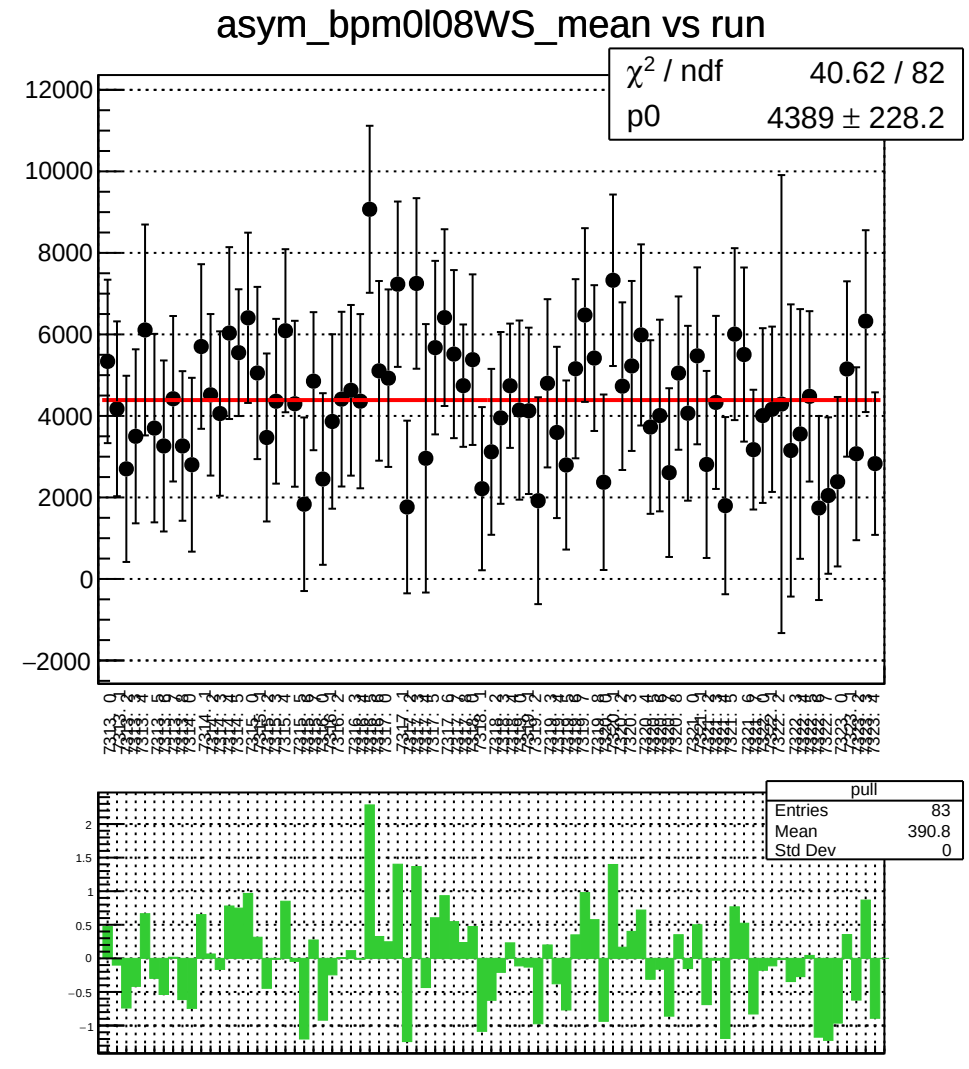

pull1D
Entries 83
Mean −0.007337
Std Dev 0.6611

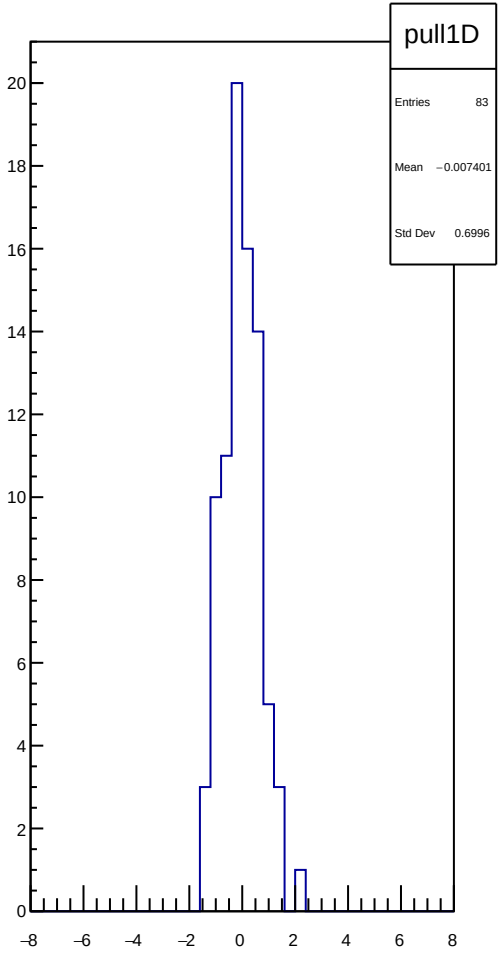

asym_bpm0l06WS_rms vs run
χ² / ndf 1.779e+04 / 82
p0 212.2 ± 0.1681
550
500
450
400
350
300
250
200

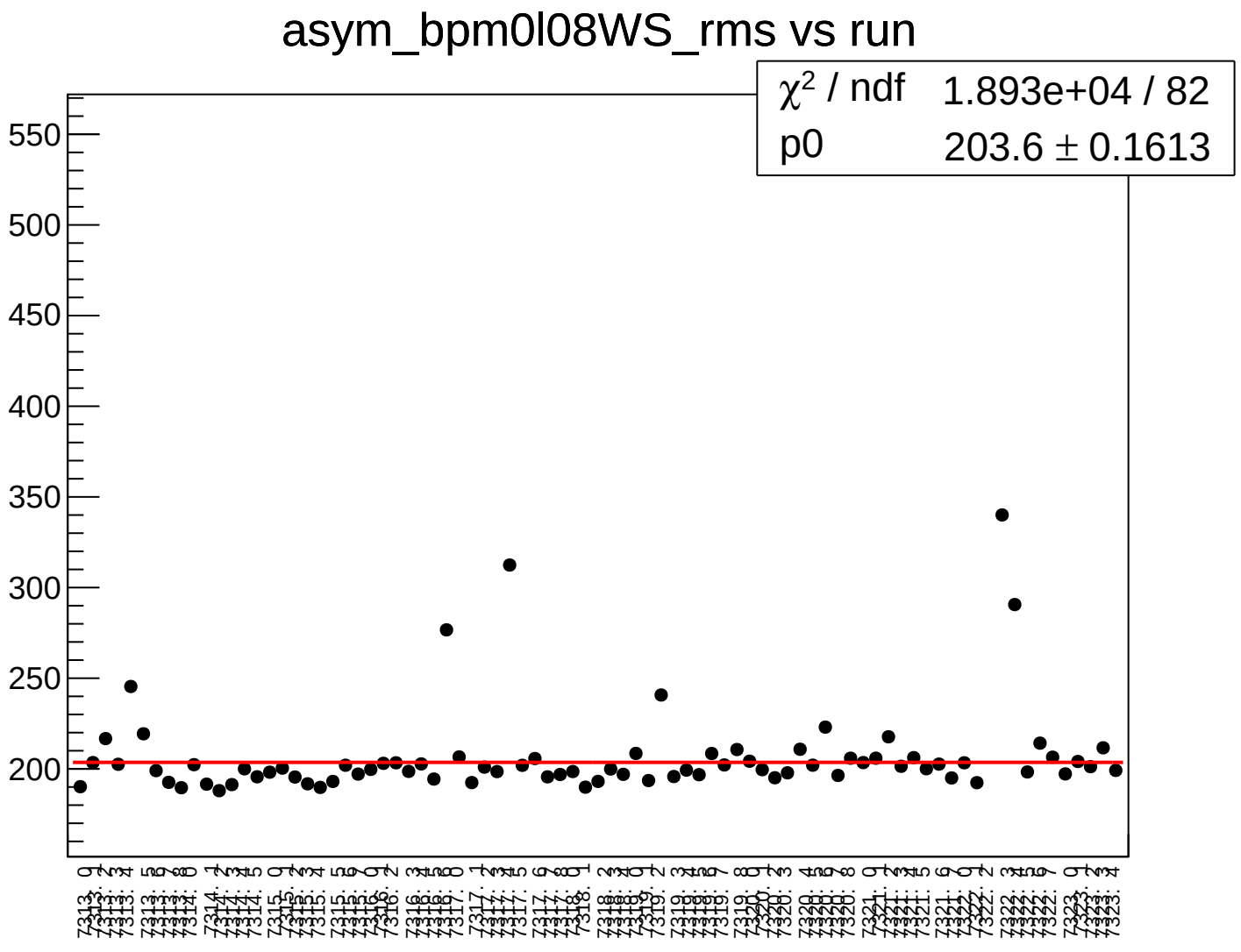

asym_bpm0l07WS_mean vs run
χ² / ndf 43.73 / 82
p0 4356 ± 235.4
pull
Entries 83
Mean 314.9
Std Dev 0

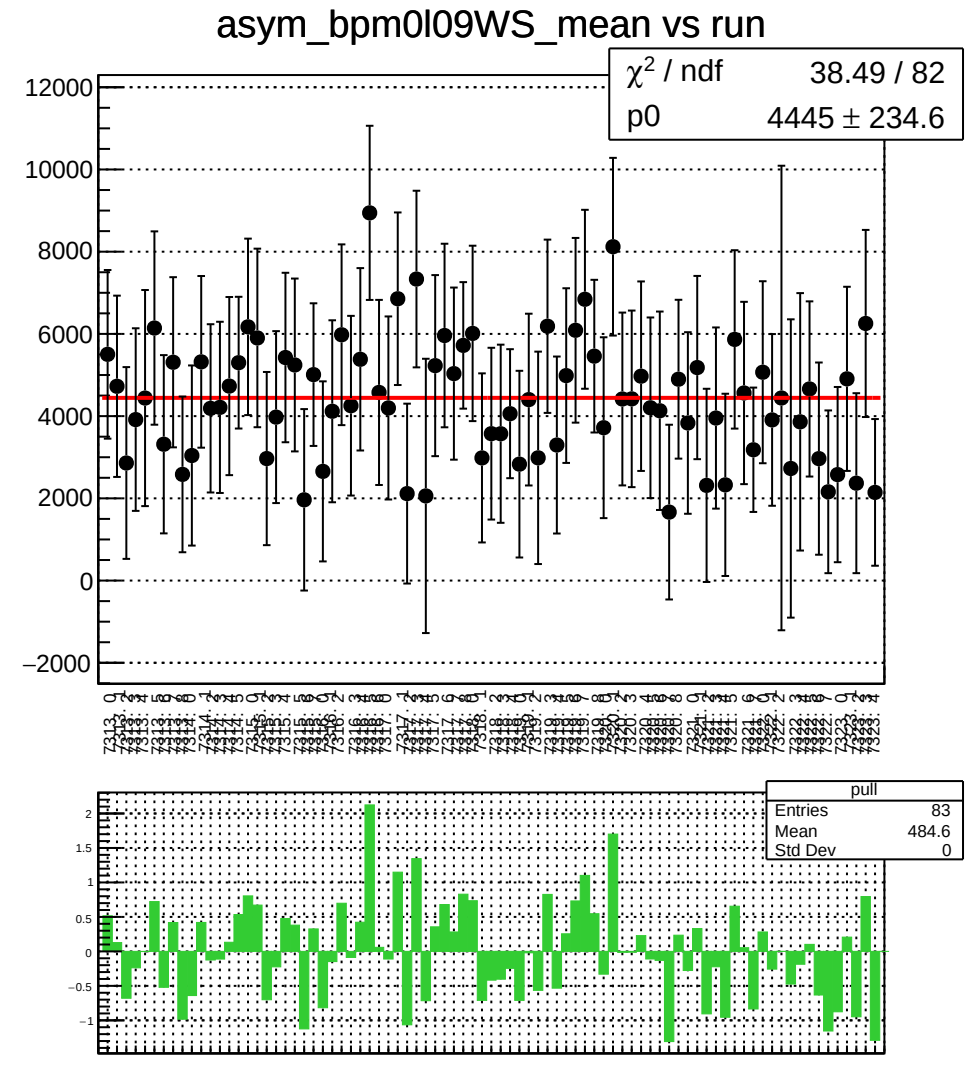

pull1D
Entries 83
Mean −0.01192
Std Dev 0.7258

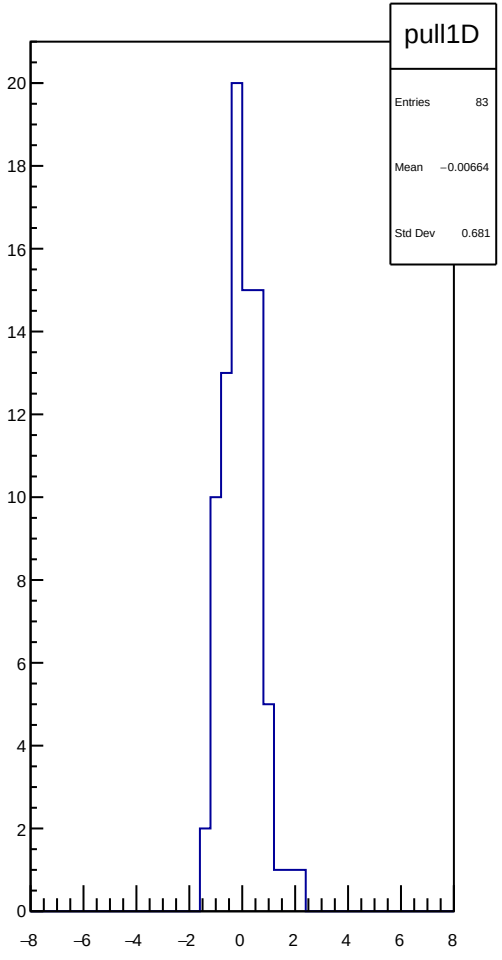

asym_bpm0l07WS_rms vs run
χ² / ndf 1.808e+04 / 82
p0 210.1 ± 0.1664
550
500
450
400
350
300
250
200

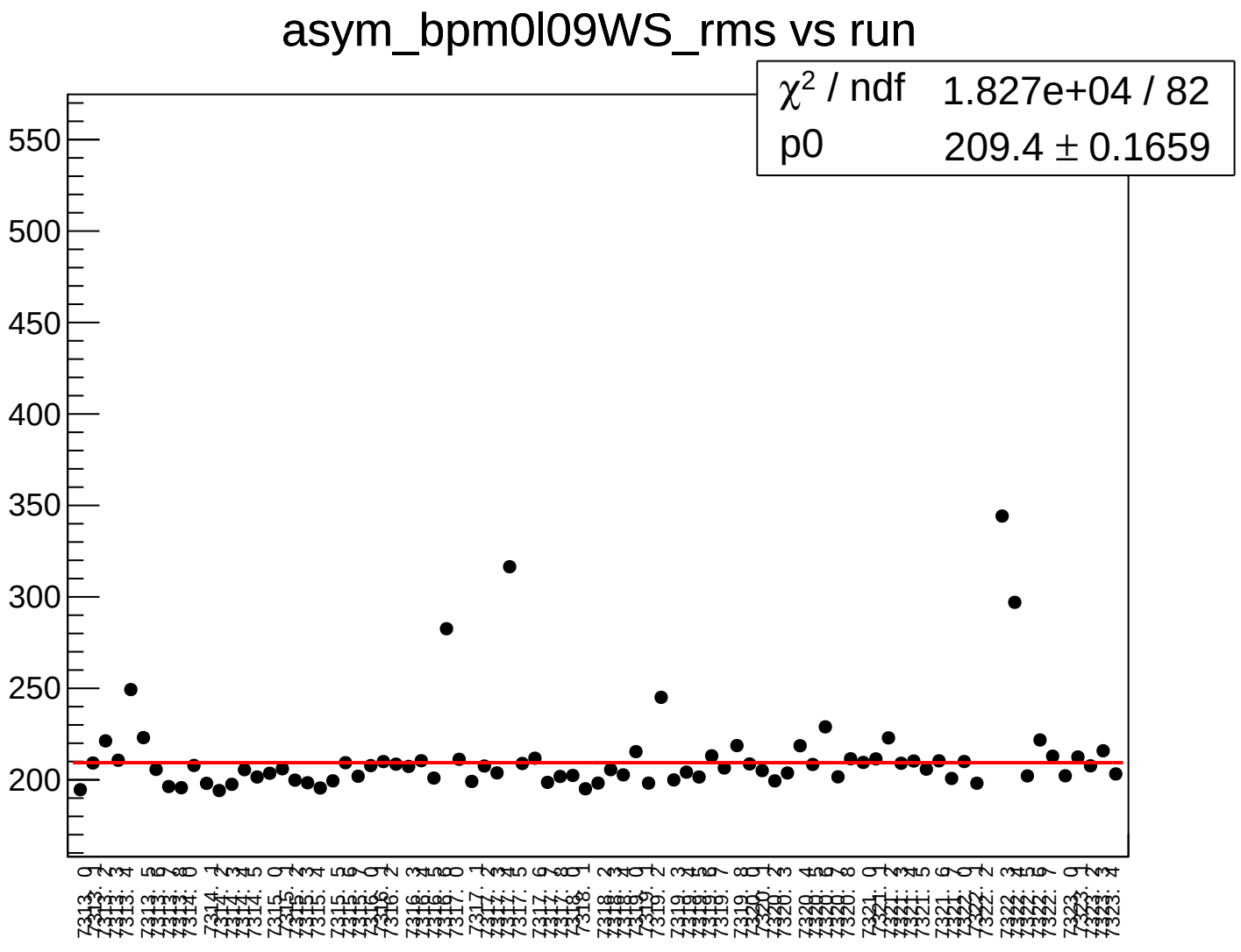

asym_bpm0l08WS_mean vs run
χ^2 / ndf 40.62 / 82
p0 4389 ± 228.2
pull
Entries 83
Mean 390.8
Std Dev 0

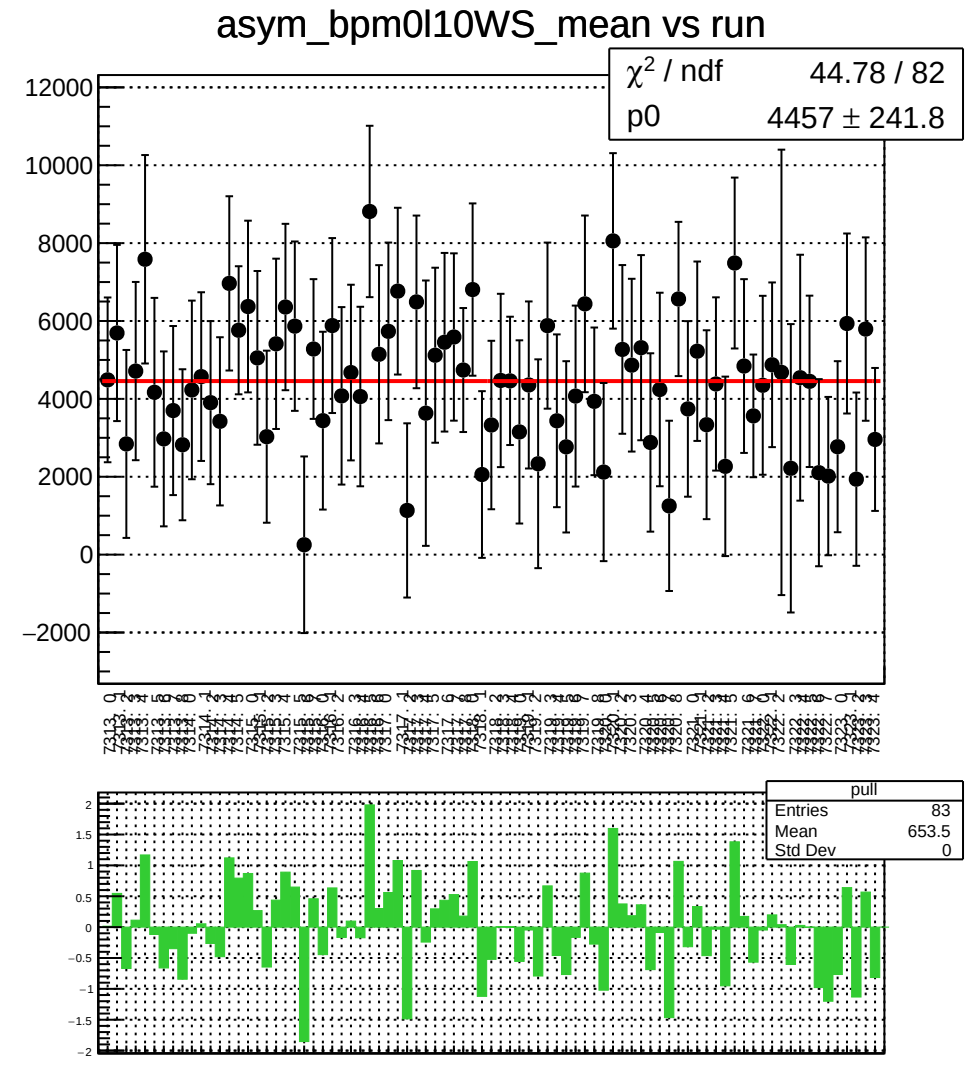

pull1D
Entries 83
Mean −0.007401
Std Dev 0.6996

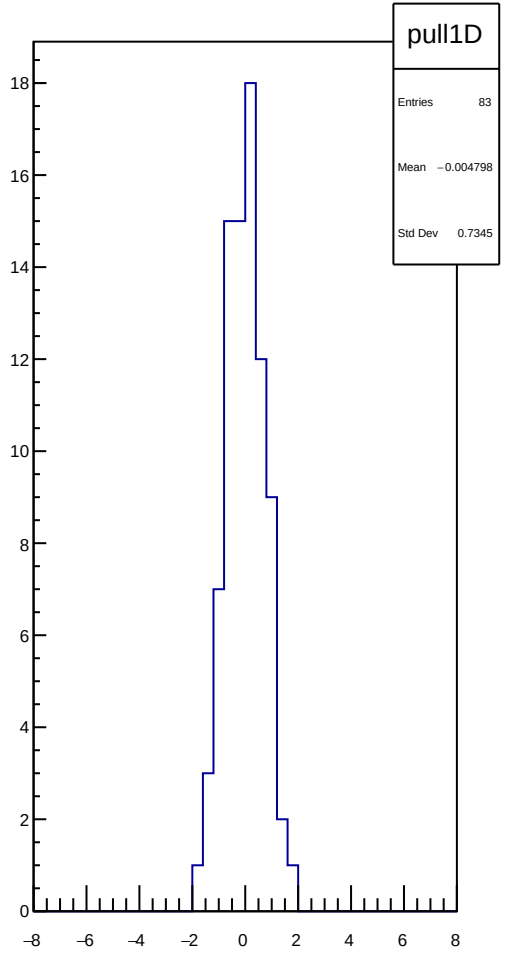

asym_bpm0l08WS_rms vs run
χ² / ndf 1.893e+04 / 82
p0 203.6 ± 0.1613
550
500
450
400
350
300
250
200

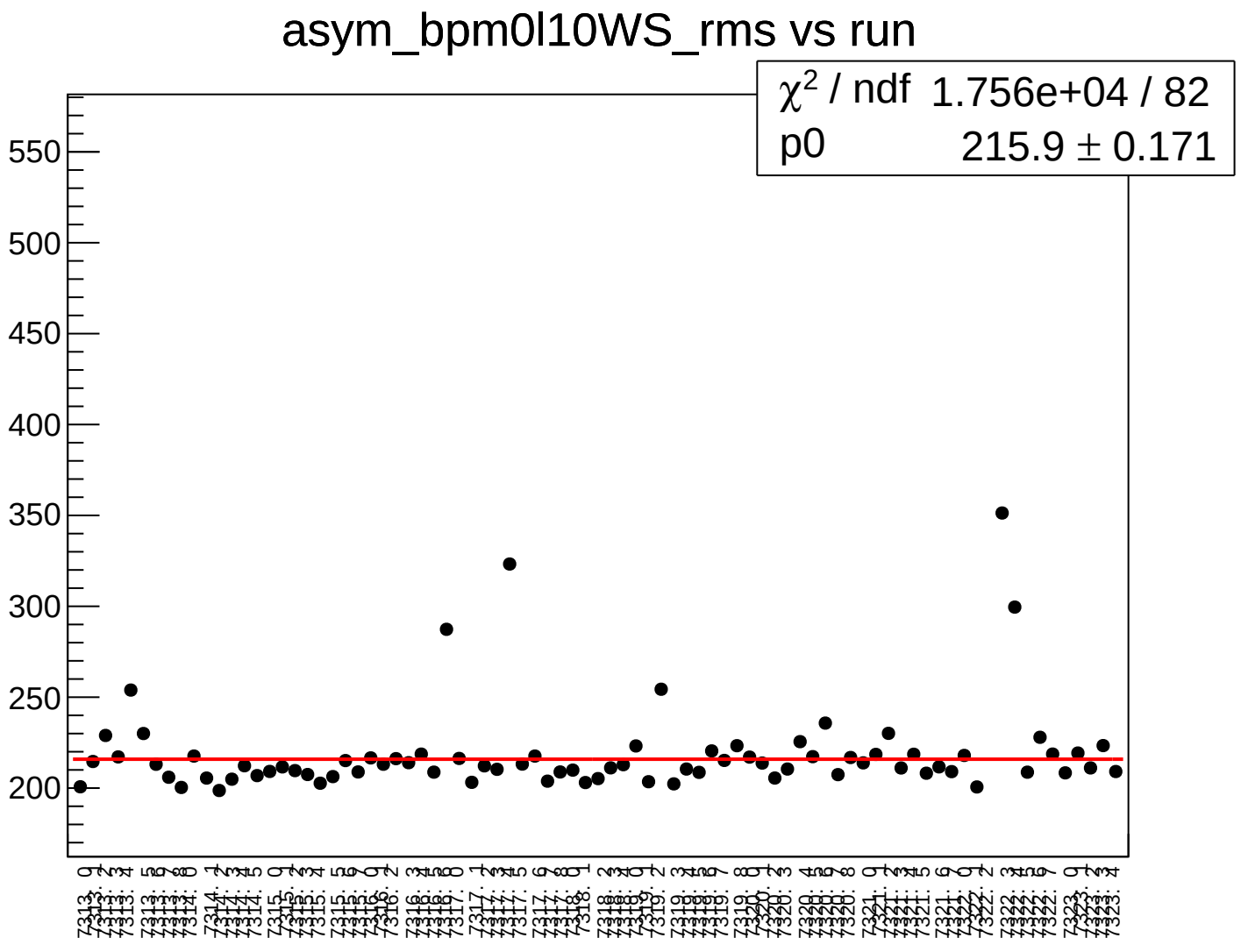

asym_bpm0l09WS_mean vs run
χ^2 / ndf 38.49 / 82
p0 4445 ± 234.6
pull
Entries 83
Mean 484.6
Std Dev 0

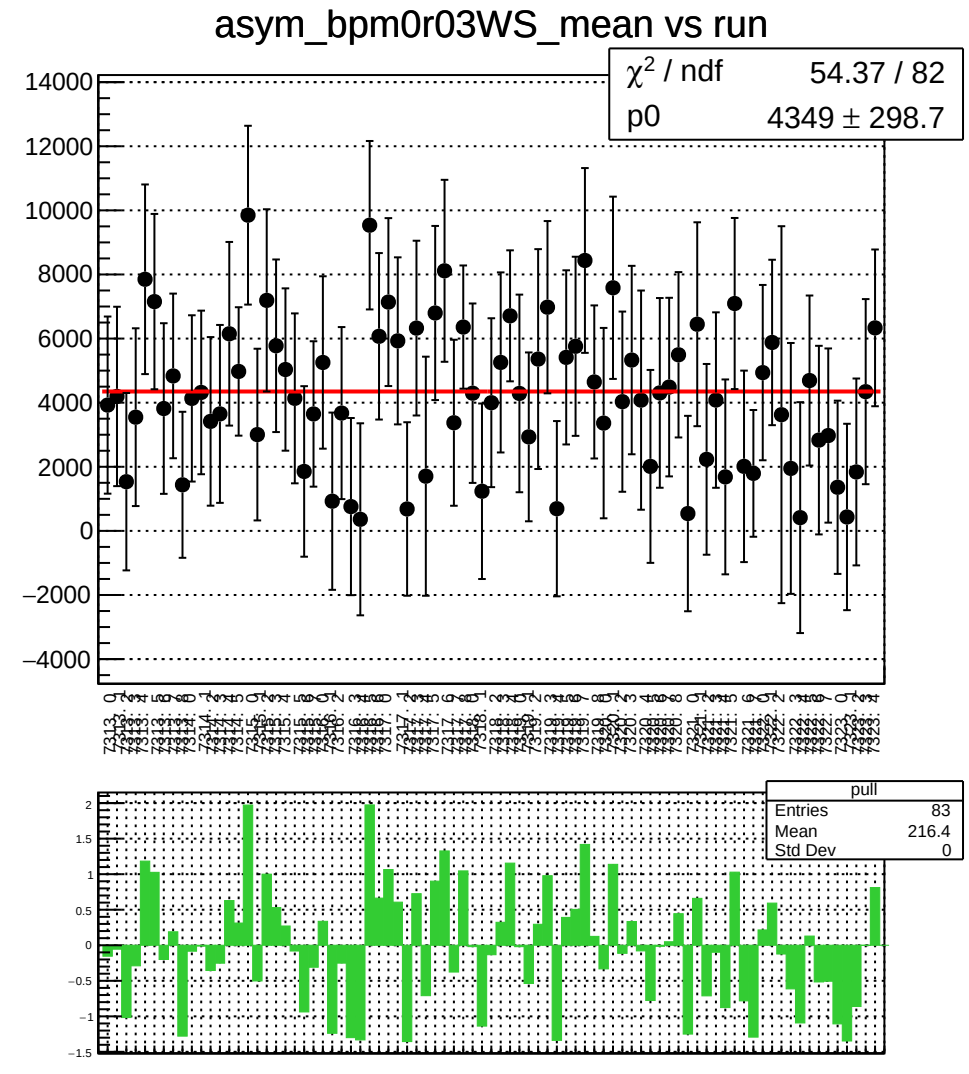

pull1D
Entries 83
Mean −0.00664
Std Dev 0.681

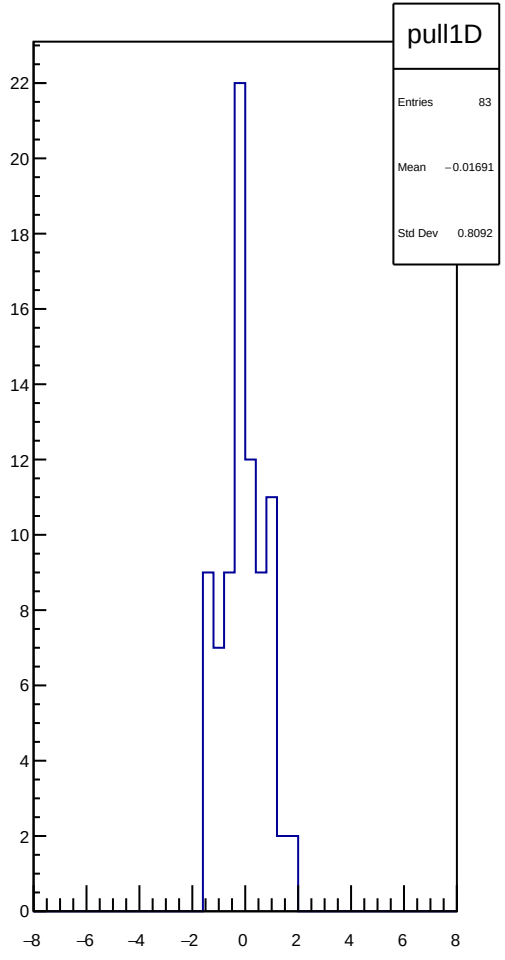

asym_bpm0l09WS_rms vs run
χ² / ndf 1.827e+04 / 82
p0 209.4 ± 0.1659
550
500
450
400
350
300
250
200

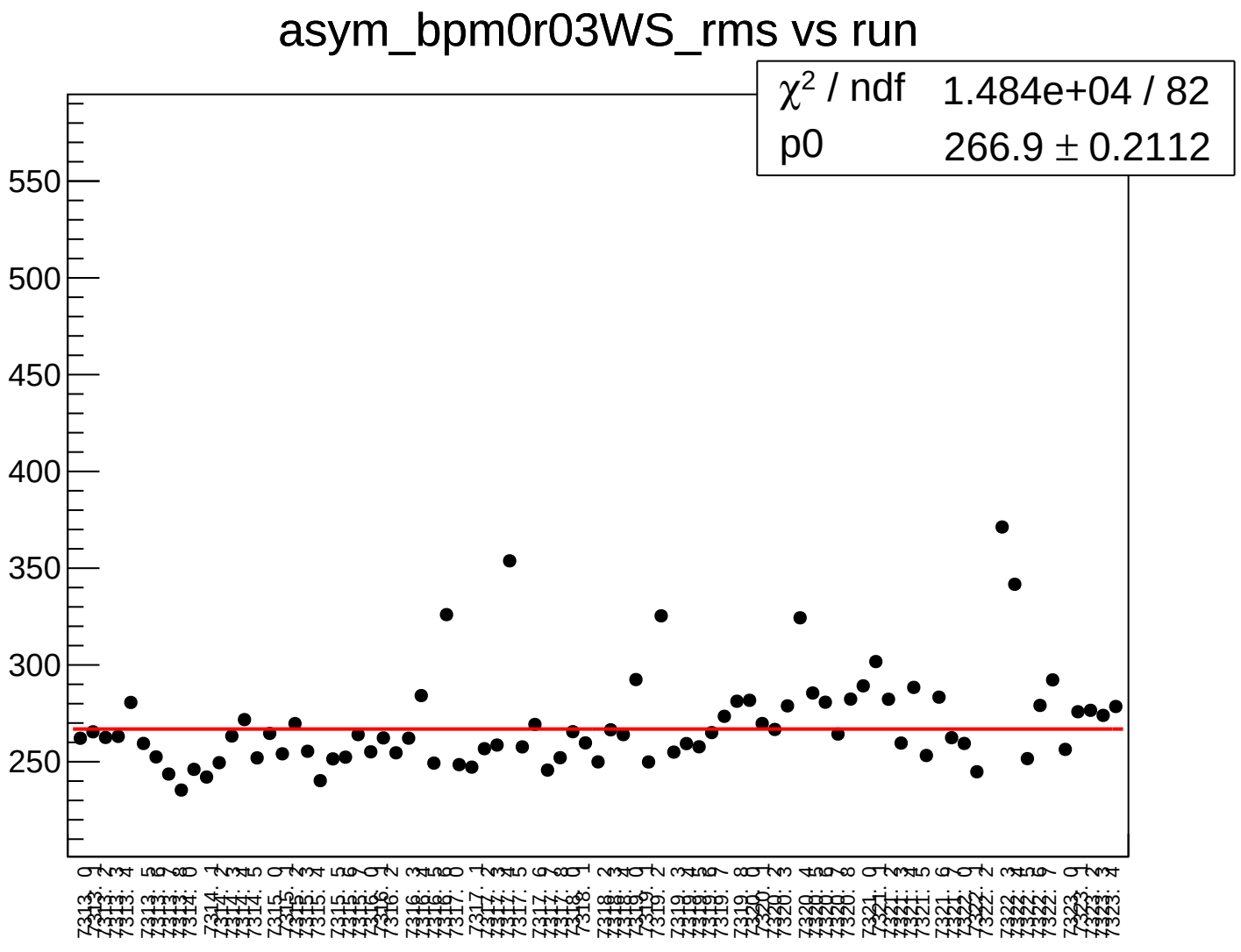

asym_bpm0l10WS_mean vs run
χ² / ndf 44.78 / 82
p0 4457 ± 241.8
pull
Entries 83
Mean 653.5
Std Dev 0

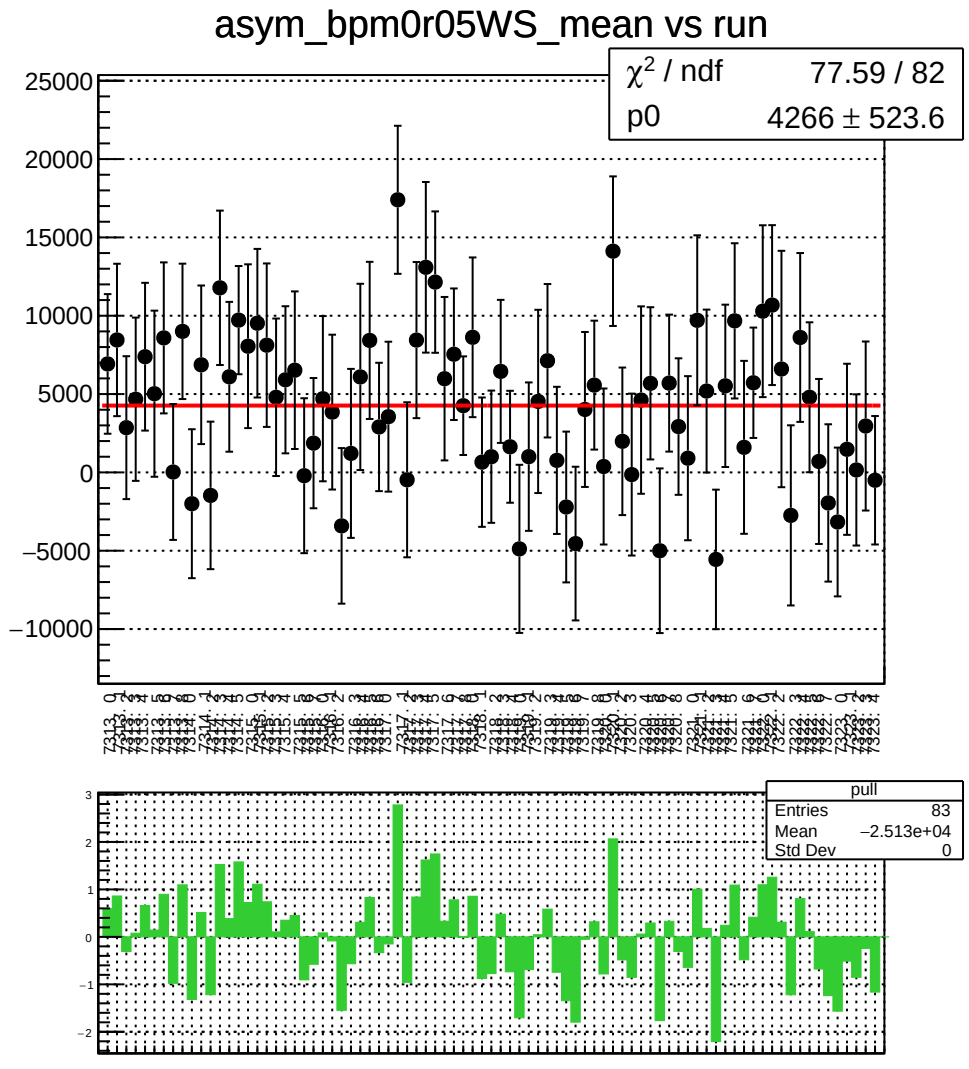

pull1D
Entries 83
Mean −0.004798
Std Dev 0.7345

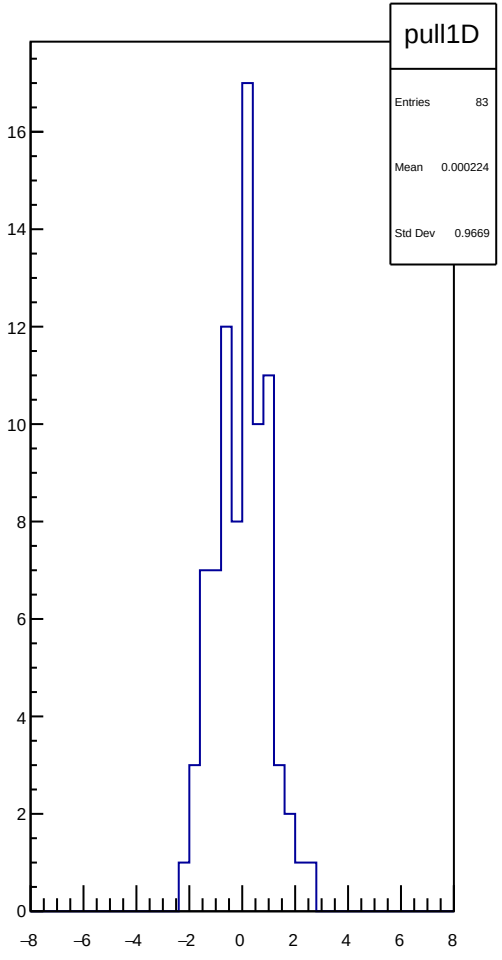

asym_bpm0l10WS_rms vs run
χ² / ndf 1.756e+04 / 82
p0 215.9 ± 0.171
550
500
450
400
350
300
250
200

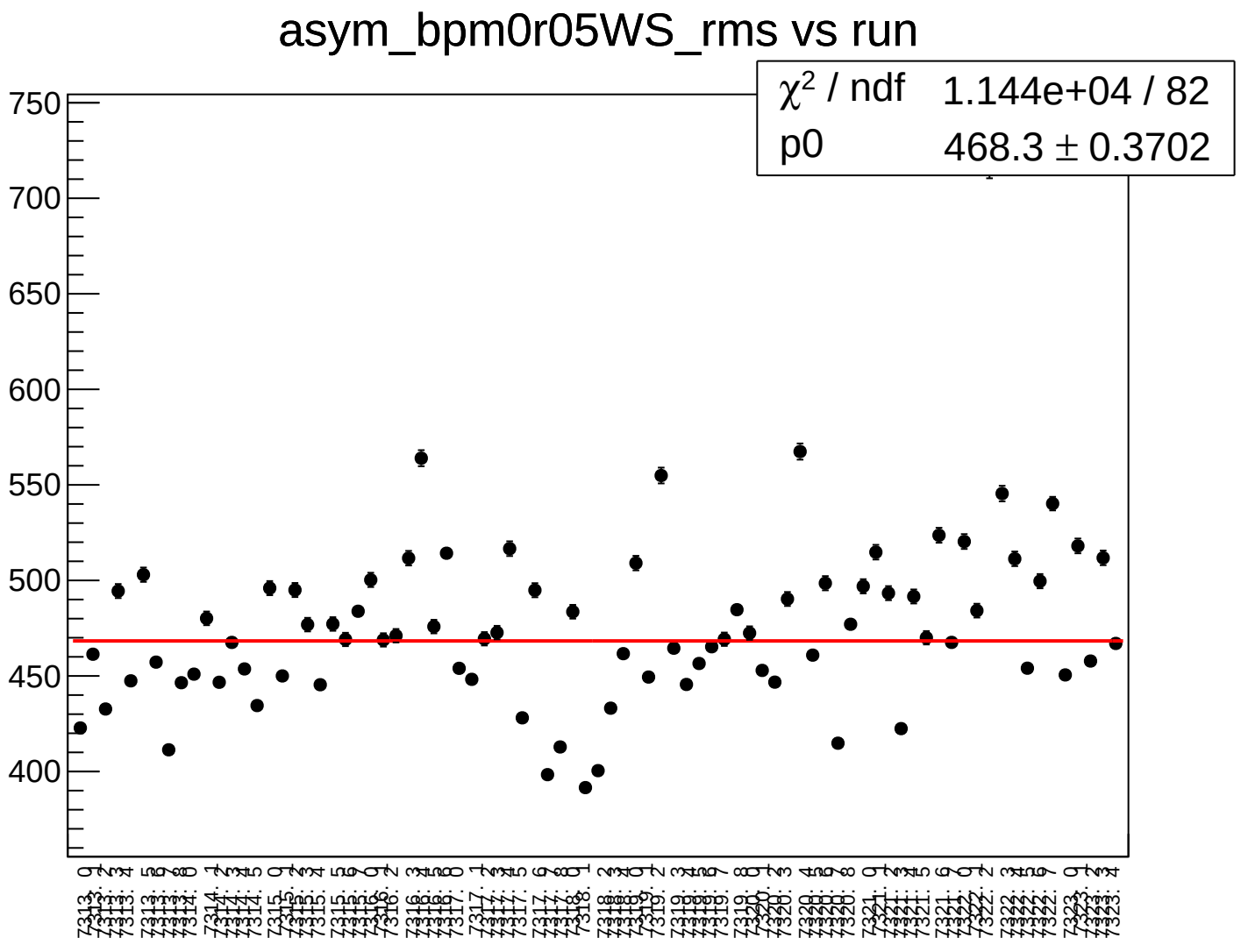

asym_bpm0r03WS_mean vs run
χ² / ndf 54.37 / 82
p0 4349 ± 298.7
pull
Entries 83
Mean 216.4
Std Dev 0

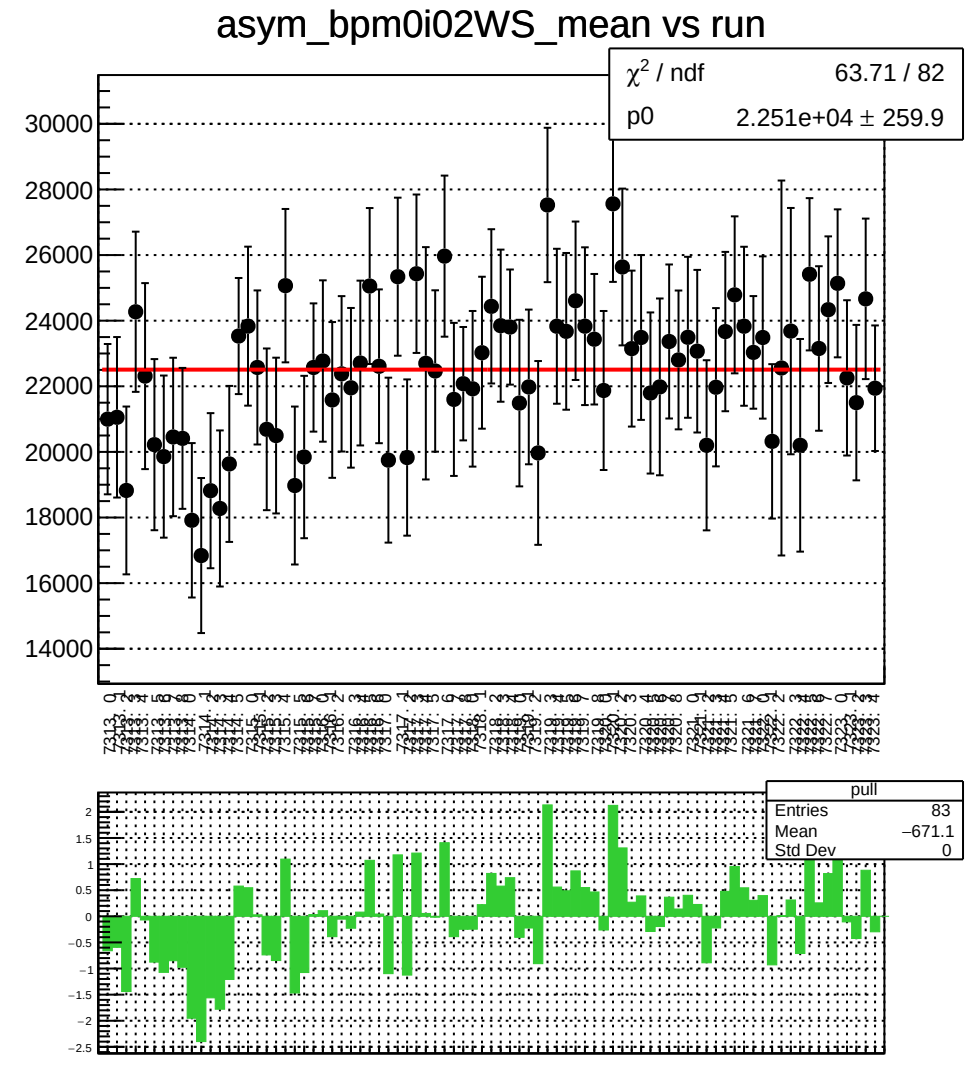

pull1D
Entries 83
Mean −0.01691
Std Dev 0.8092

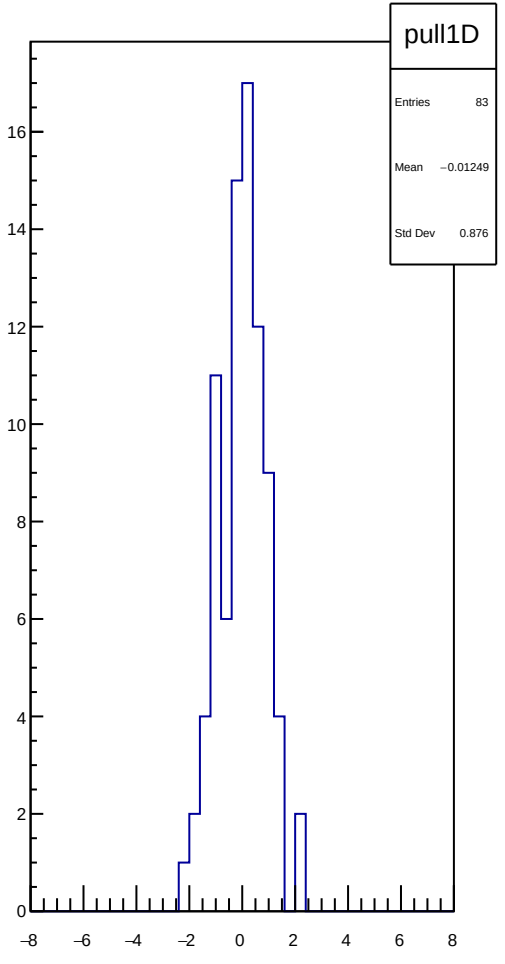

asym_bpm0r03WS_rms vs run
χ² / ndf 1.484e+04 / 82
p0 266.9 ± 0.2112
550
500
450
400
350
300
250

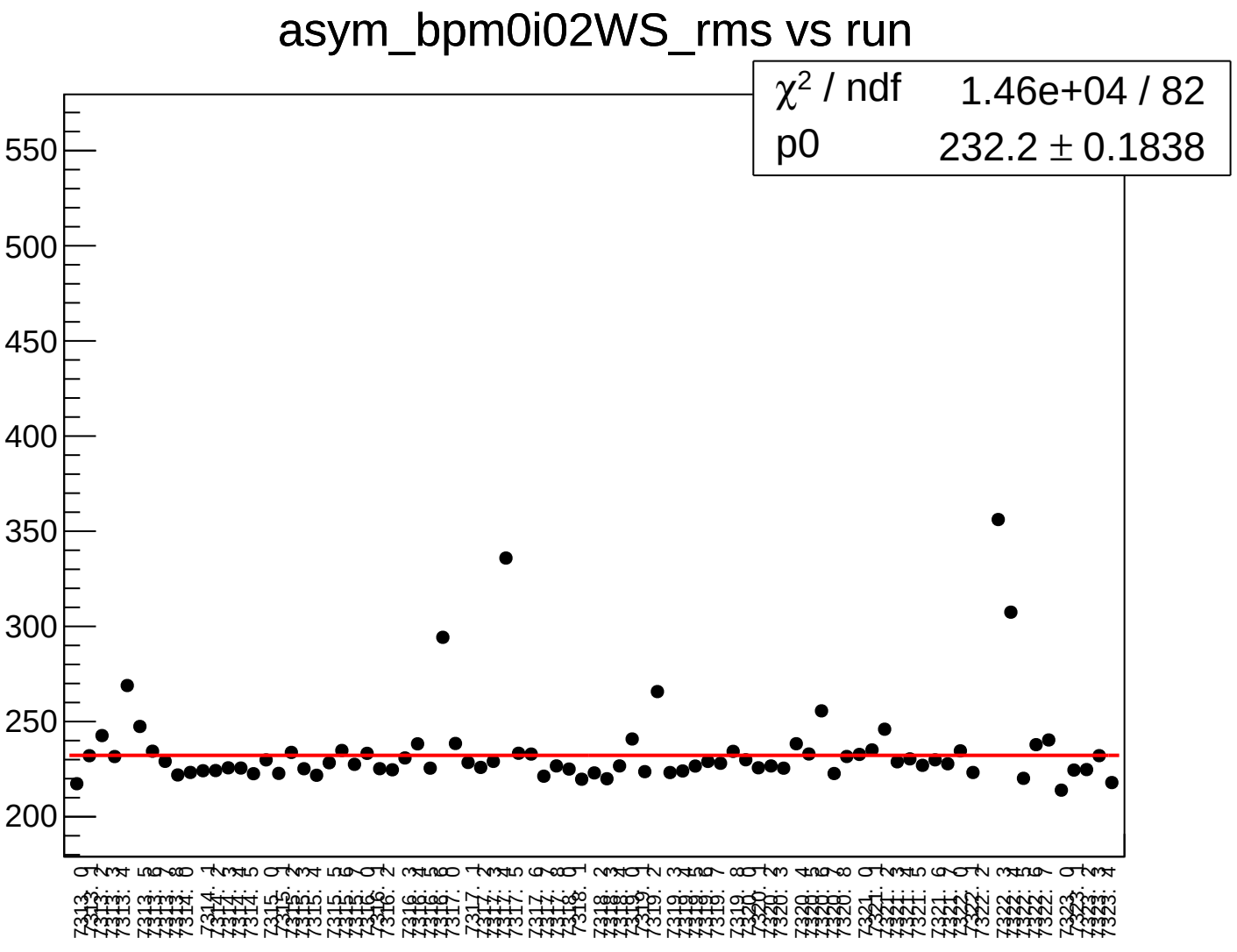

asym_bpm0r05WS_mean vs run
χ² / ndf 77.59 / 82
p0 4266 ± 523.6
pull
Entries 83
Mean −2.513e+04
Std Dev 0

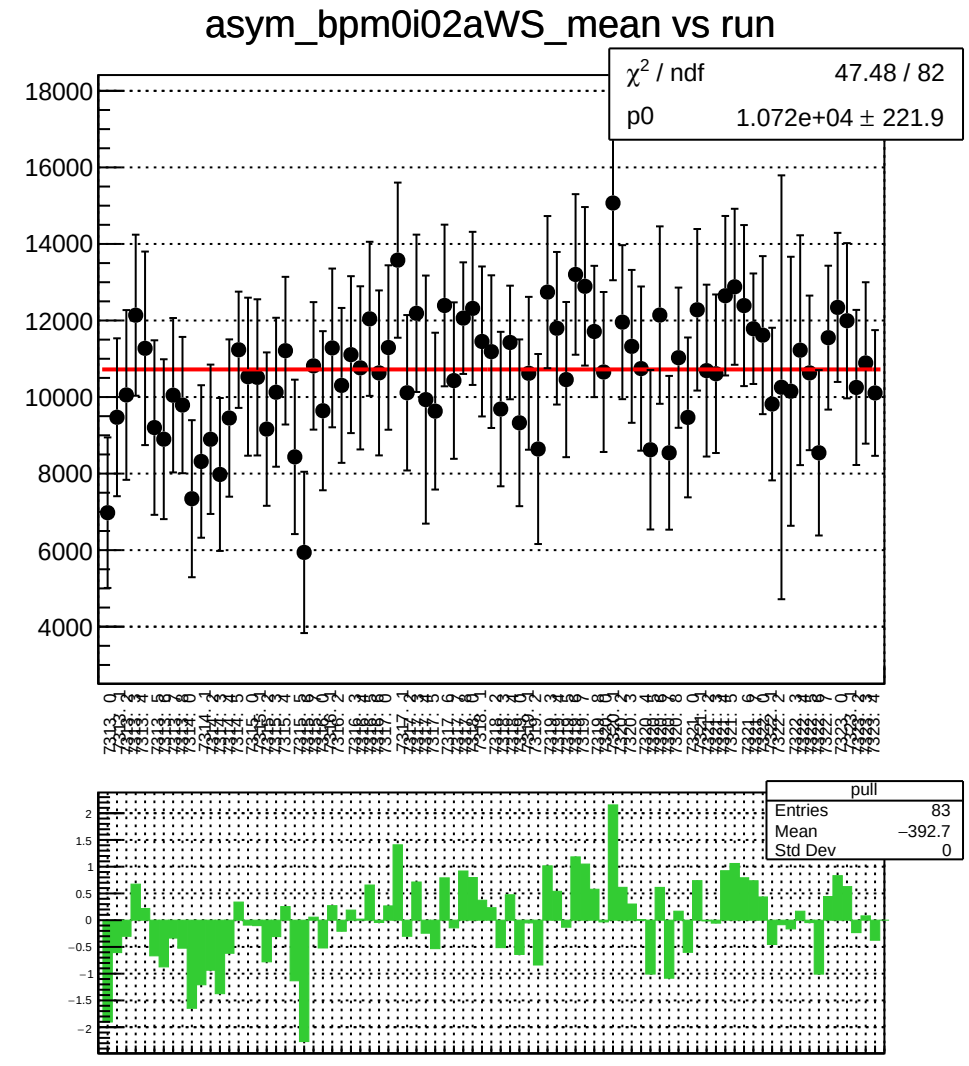

pull1D
Entries 83
Mean 0.000224
Std Dev 0.9669

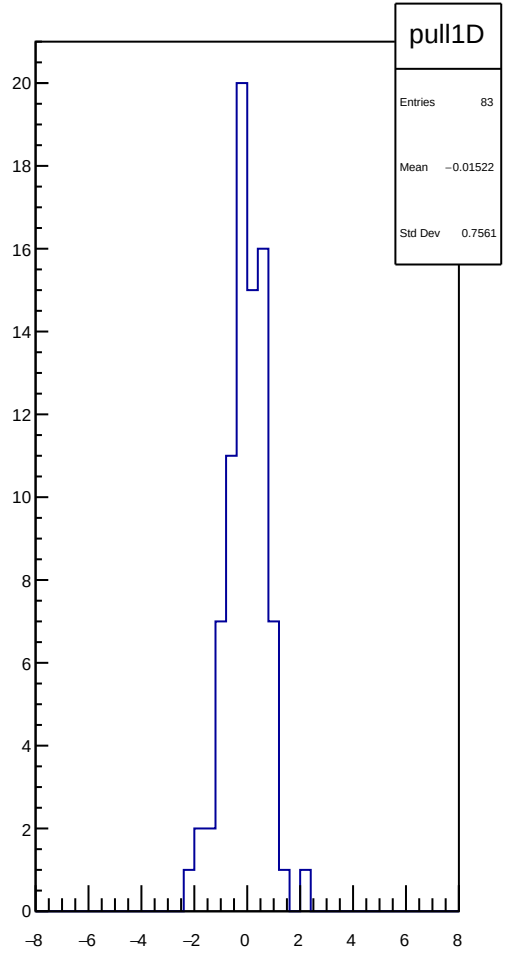

asym_bpm0r05WS_rms vs run
χ² / ndf 1.144e+04 / 82
p0 468.3 ± 0.3702
750
700
650
600
550
500
450
400

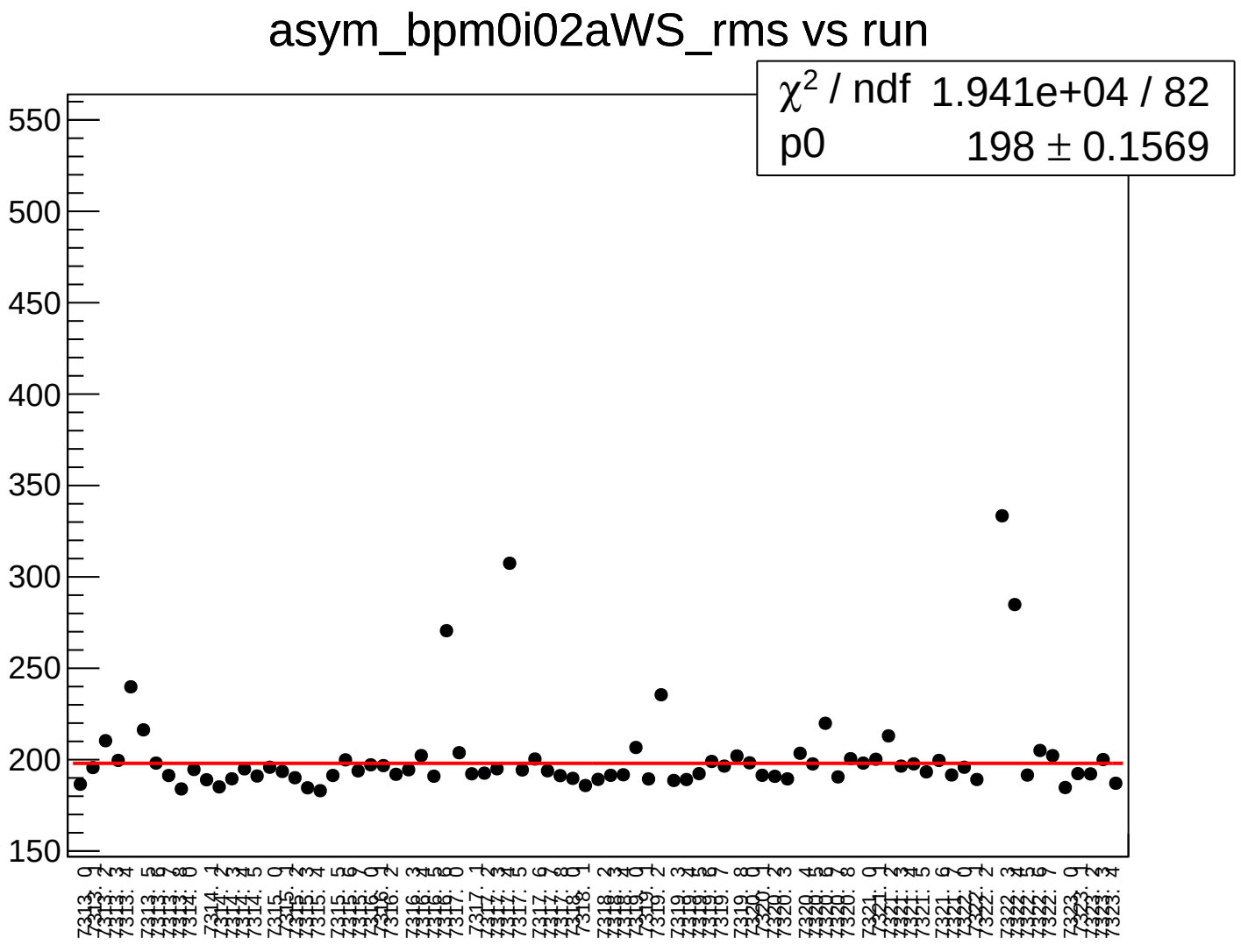

asym_bpm0i02WS_mean vs run
χ² / ndf 63.71 / 82
p0 2.251e+04 ± 259.9
pull
Entries 83
Mean −671.1
Std Dev 0

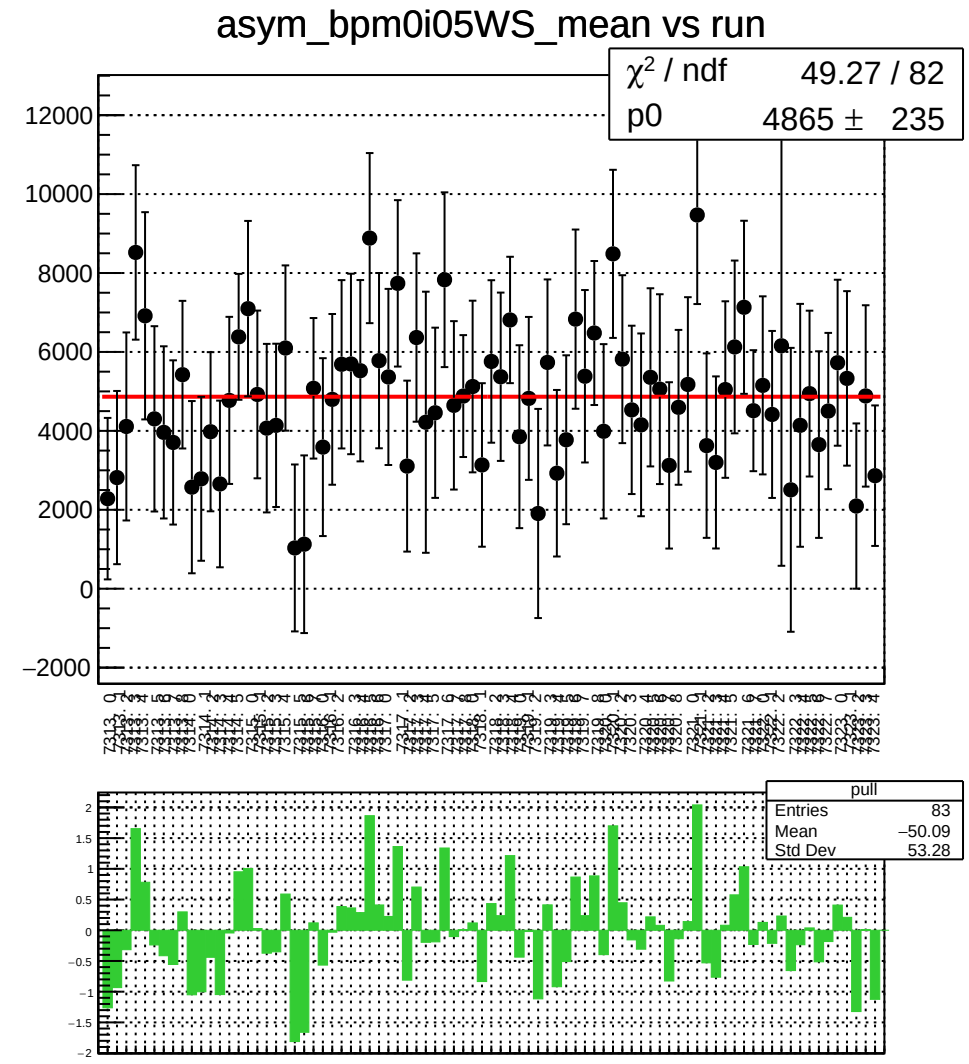

pull1D
Entries 83
Mean −0.01249
Std Dev 0.876

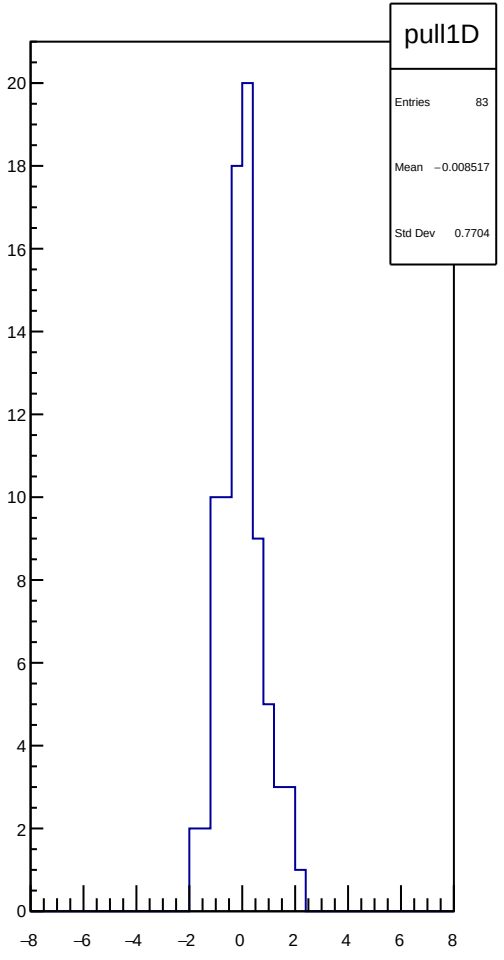

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.46e+04 / 82
p0 232.2 ± 0.1838
550
500
450
400
350
300
250
200

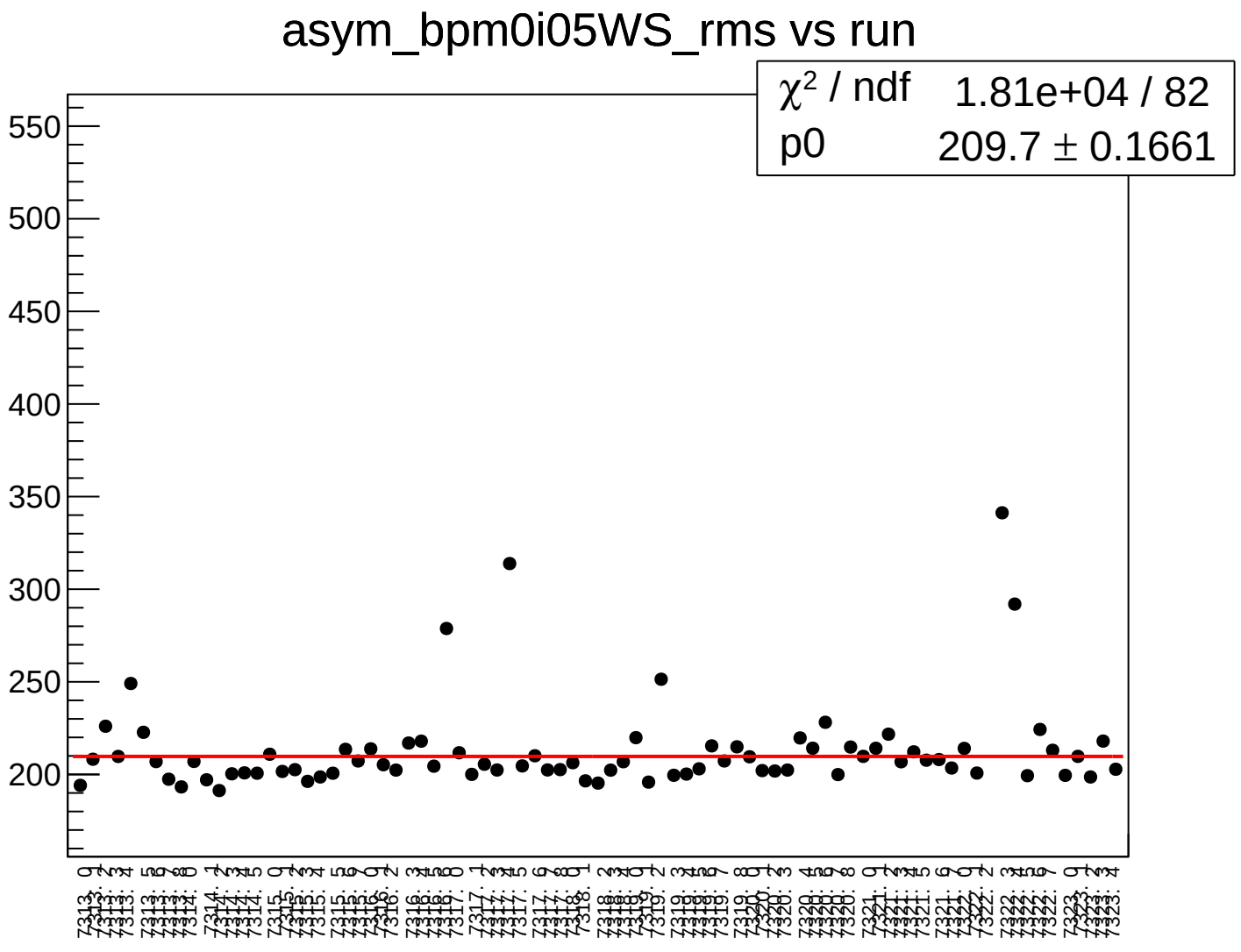

asym_bpm0i02aWS_mean vs run
χ² / ndf 47.48 / 82
p0 1.072e+04 ± 221.9
pull
Entries 83
Mean −392.7
Std Dev 0

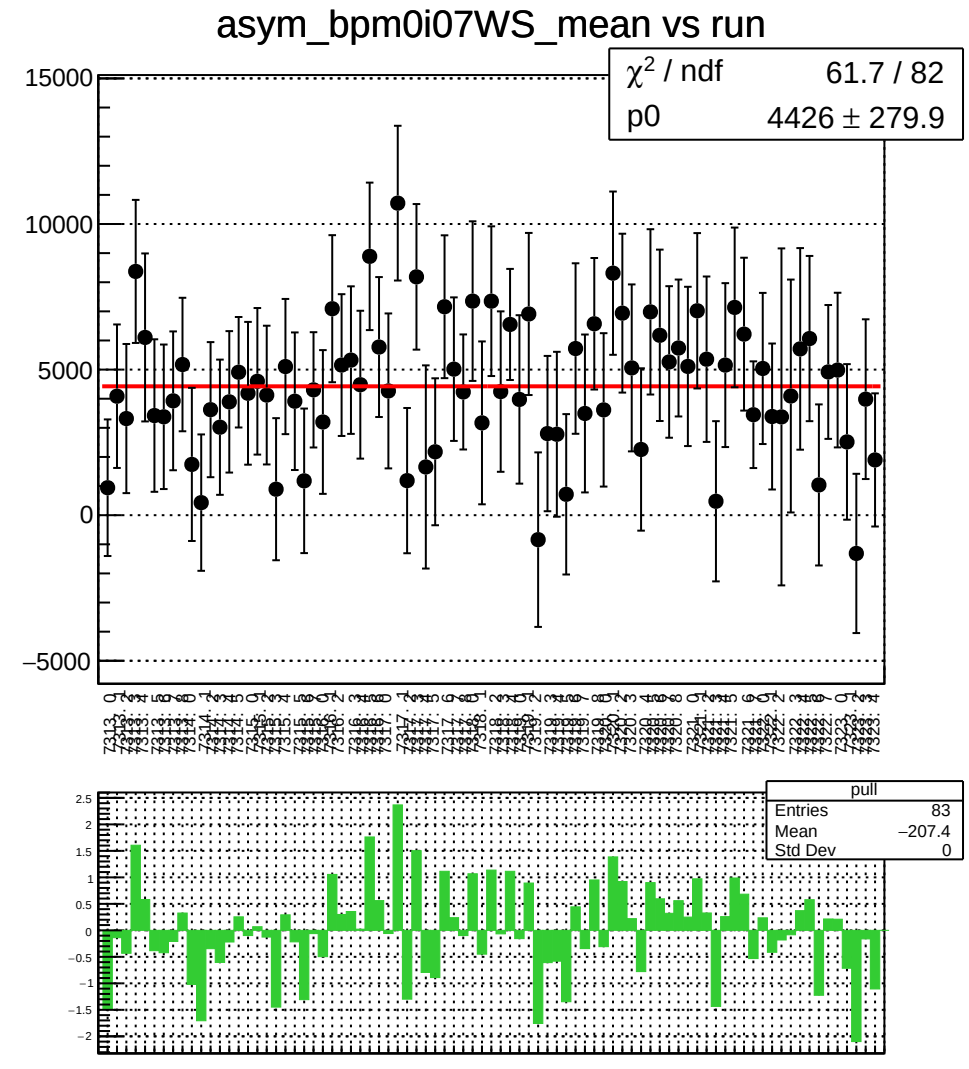

pull1D
Entries 83
Mean −0.01522
Std Dev 0.7561

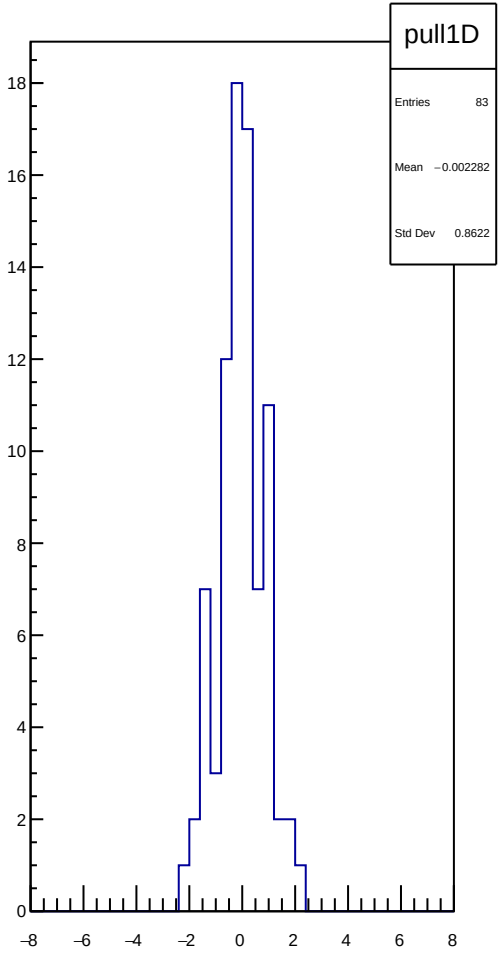

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.941e+04 / 82
p0 198 ± 0.1569
550
500
450
400
350
300
250
200
150

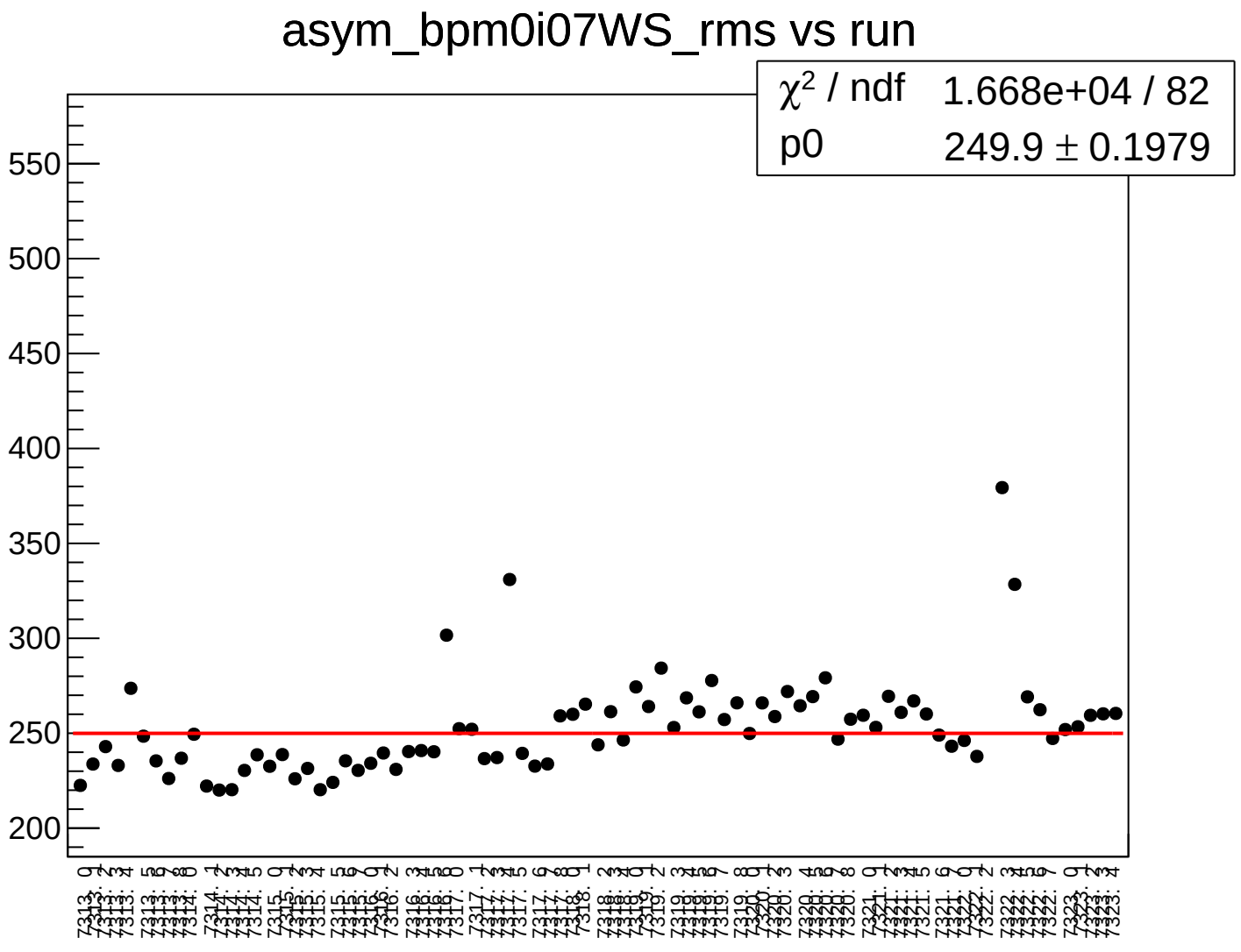

asym_bpm0i05WS_mean vs run
χ² / ndf 49.27 / 82
p0 4865 ± 235
pull
Entries 83
Mean −50.09
Std Dev 53.28

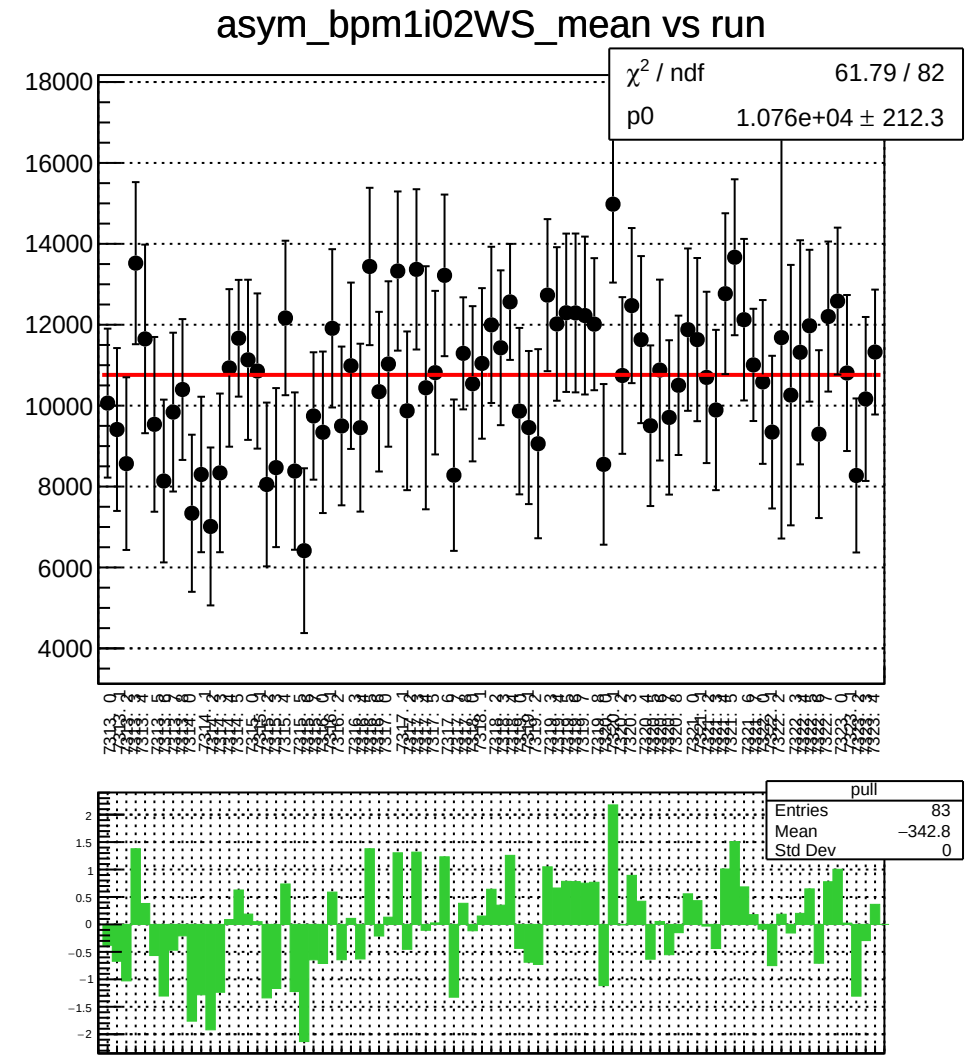

pull1D
Entries 83
Mean −0.008517
Std Dev 0.7704

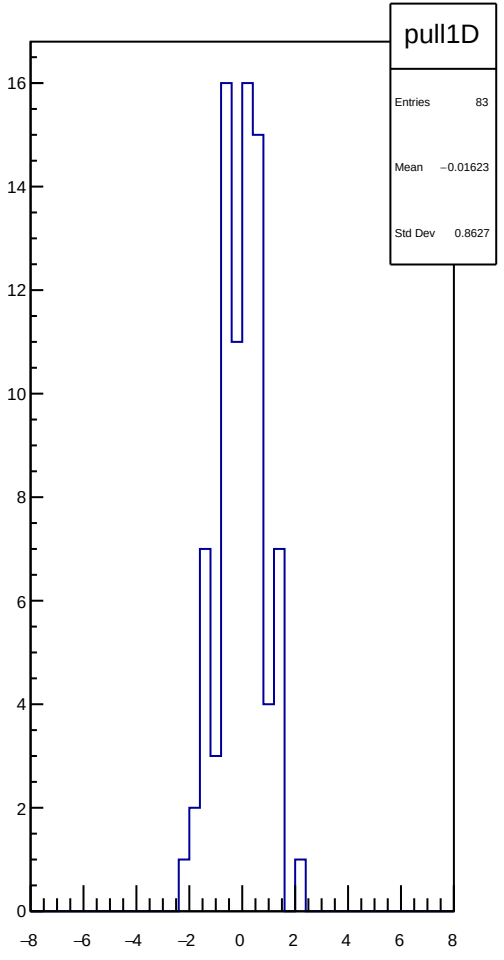

asym_bpm0i05WS_rms vs run
χ² / ndf 1.81e+04 / 82
p0 209.7 ± 0.1661
550
500
450
400
350
300
250
200


asym_bpm0i07WS_mean vs run
χ² / ndf 61.7 / 82
p0 4426 ± 279.9
pull
Entries 83
Mean −207.4
Std Dev 0

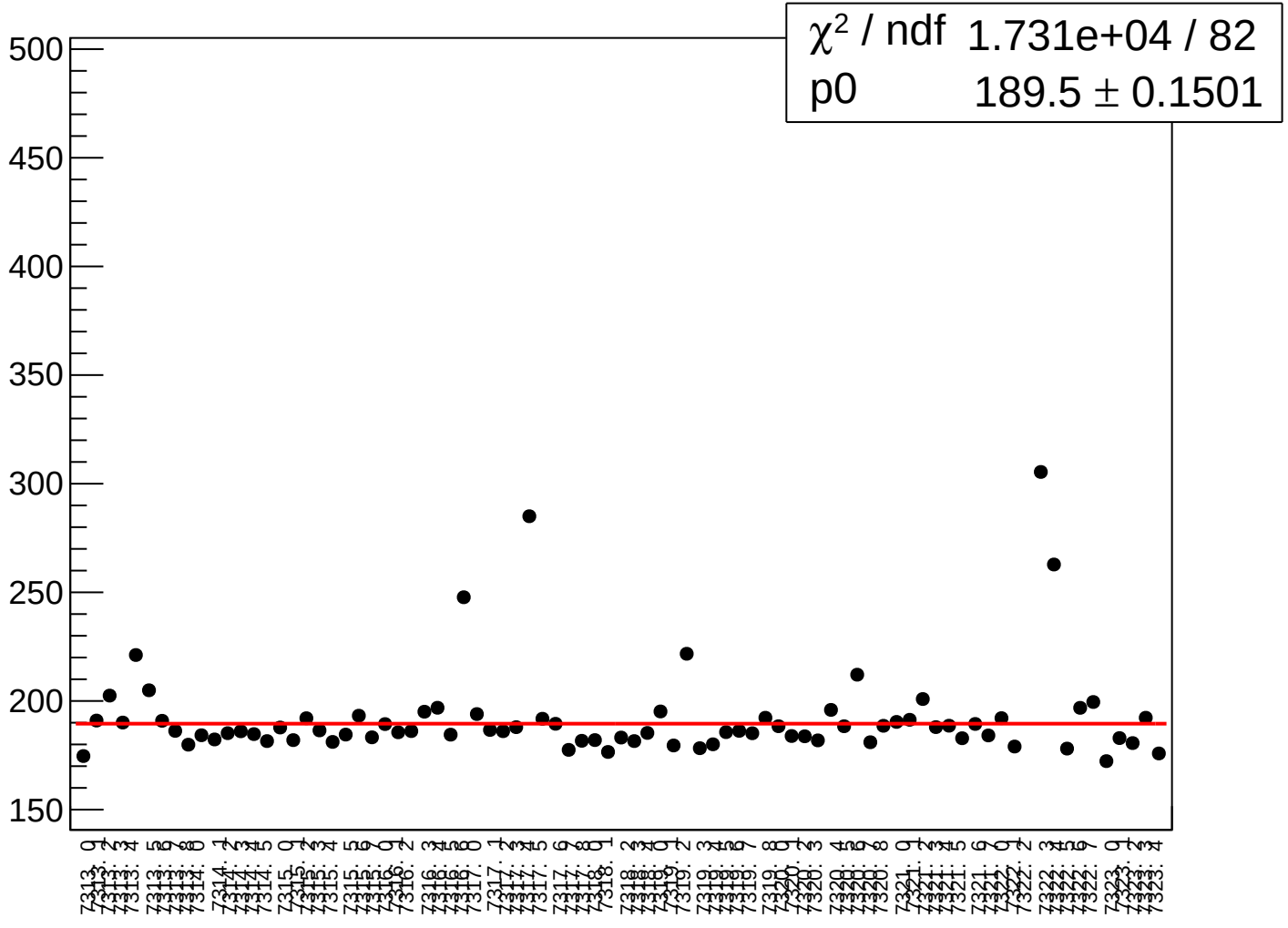

pull1D
Entries 83
Mean −0.002282
Std Dev 0.8622

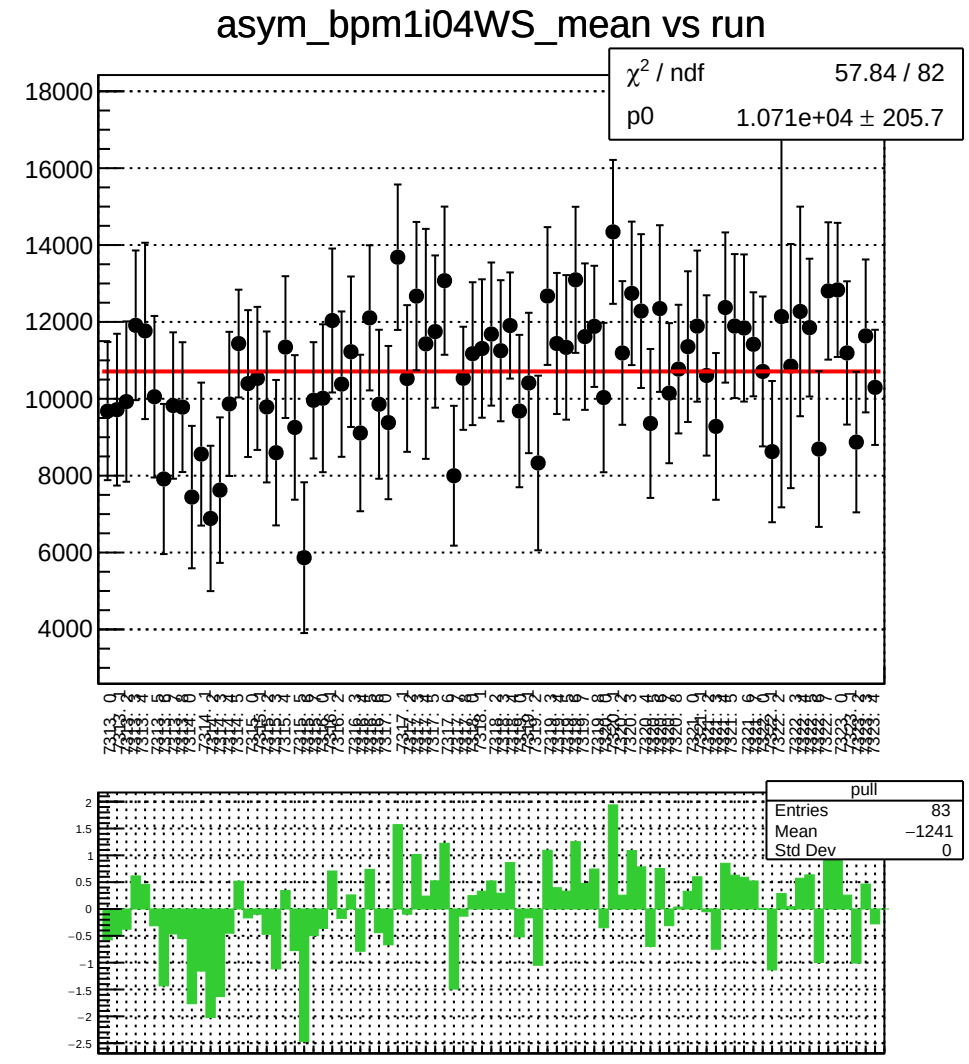

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.668e+04 / 82
p0 249.9 ± 0.1979
550
500
450
400
350
300
250
200

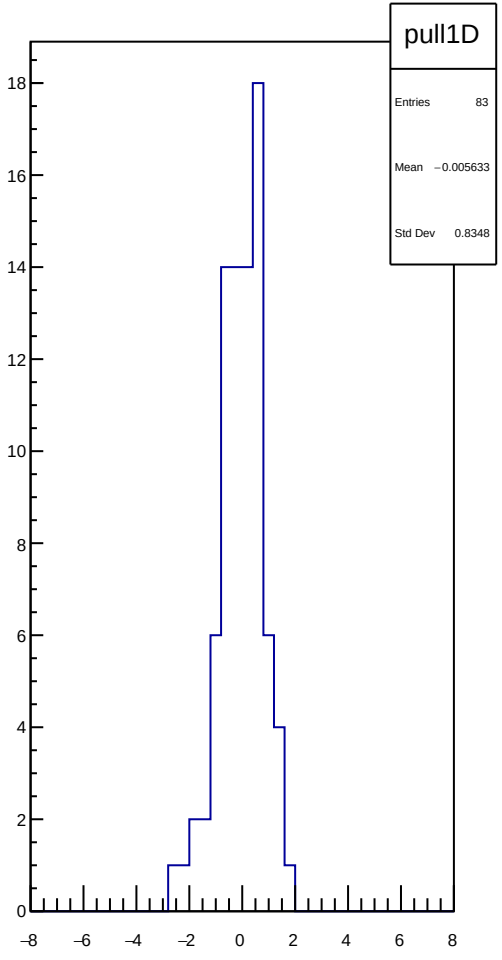

asym_bpm1i02WS_mean vs run
χ² / ndf 61.79 / 82
p0 1.076e+04 ± 212.3
pull
Entries 83
Mean −342.8
Std Dev 0

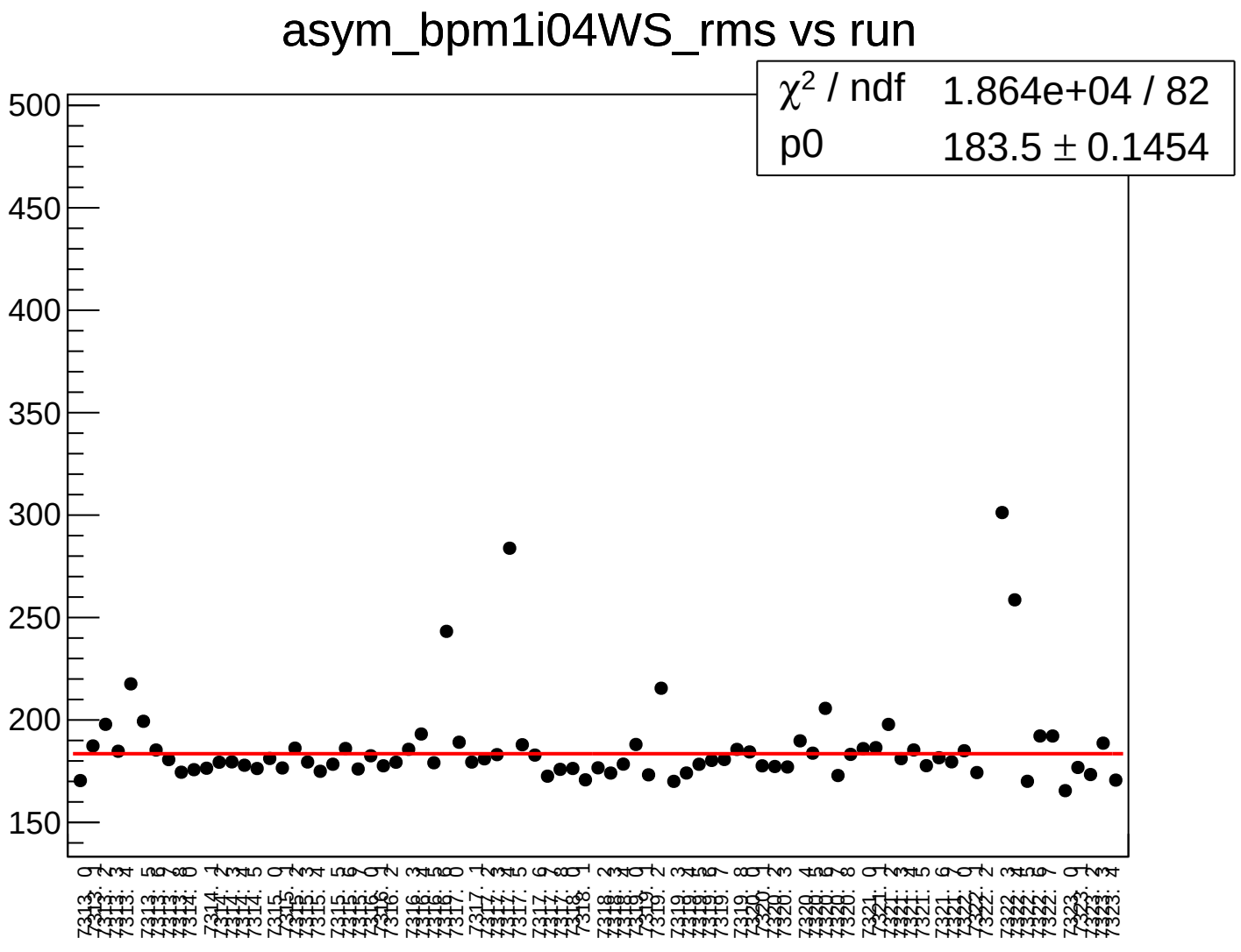

pull1D
Entries 83
Mean −0.01623
Std Dev 0.8627

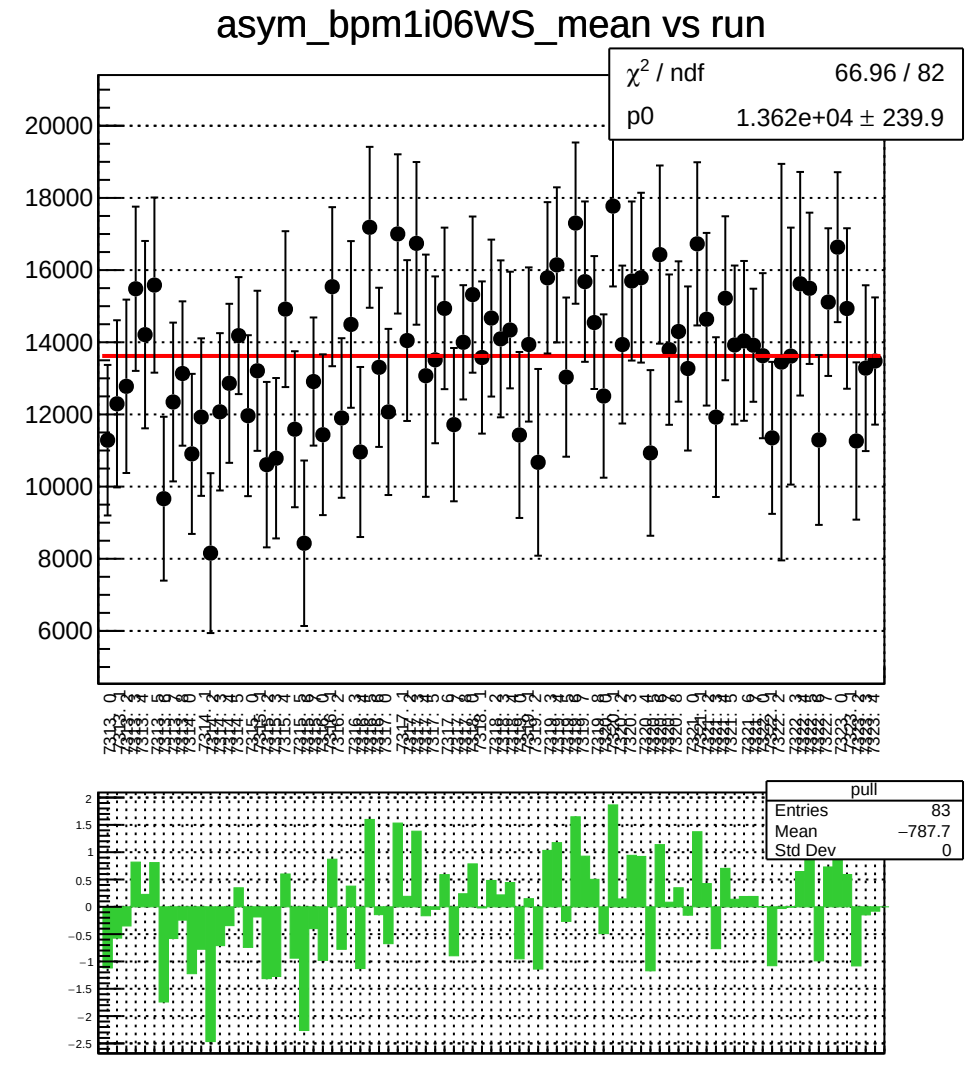
asym_bpm1i02WS_rms vs run

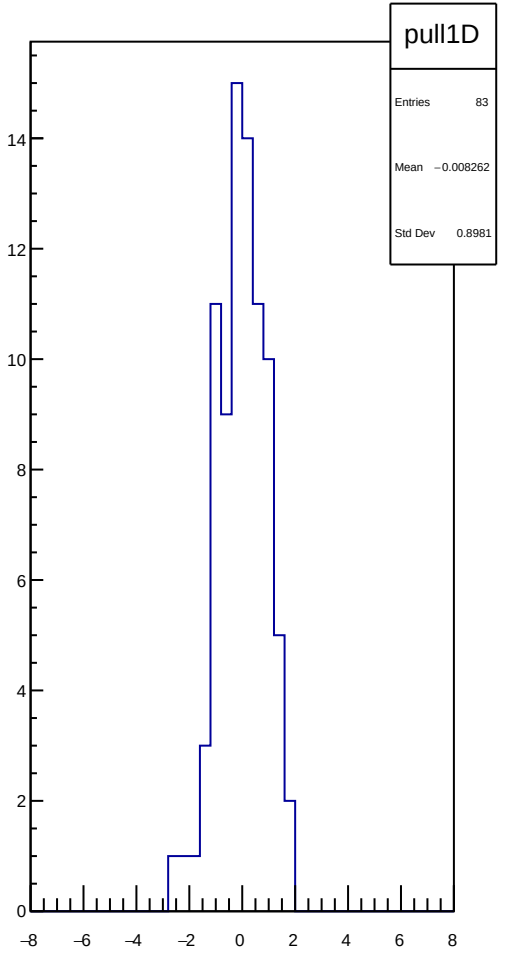


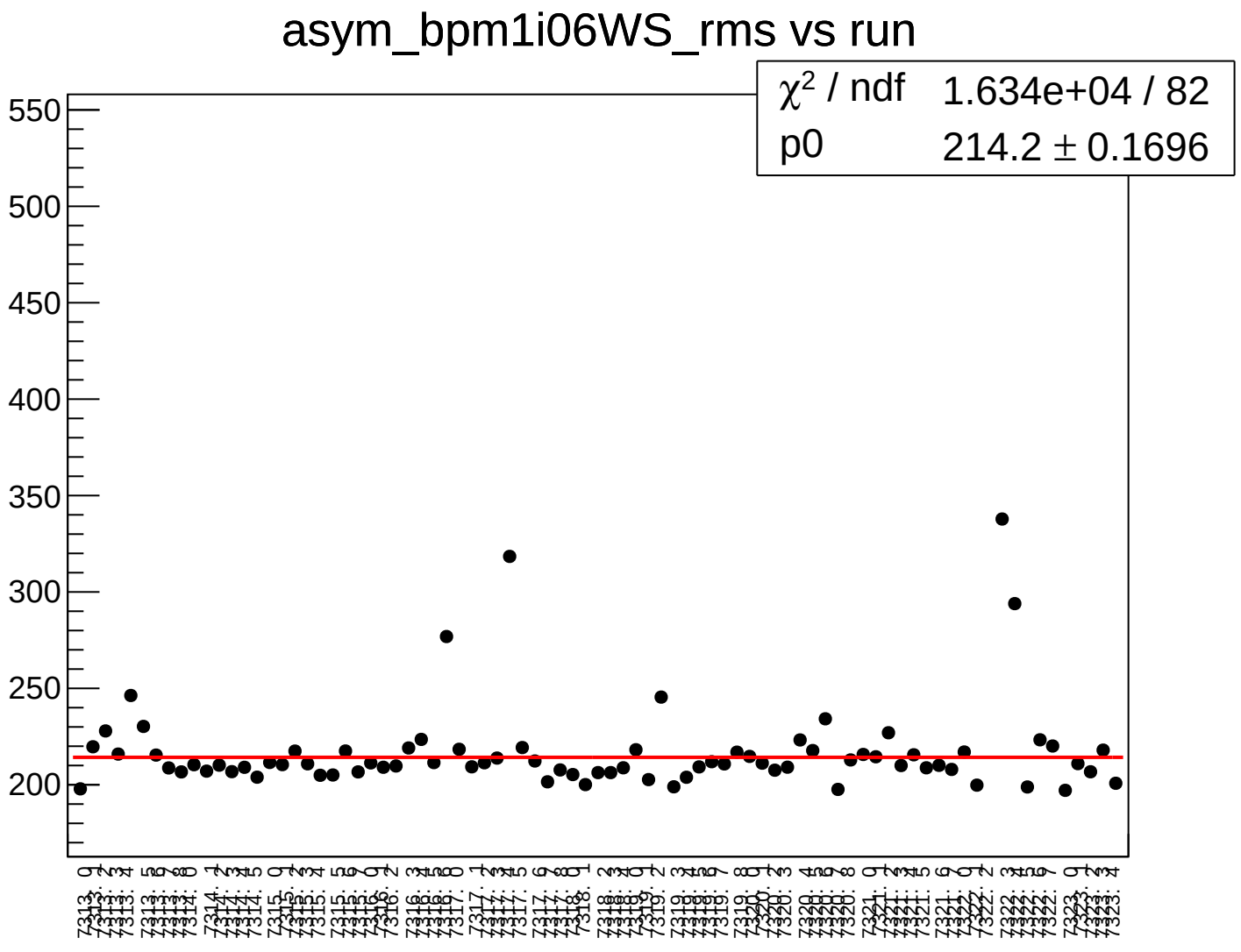

asym_bpm1i04WS_mean vs run
χ² / ndf 57.84 / 82
p0 1.071e+04 ± 205.7
pull
Entries 83
Mean −1241
Std Dev 0

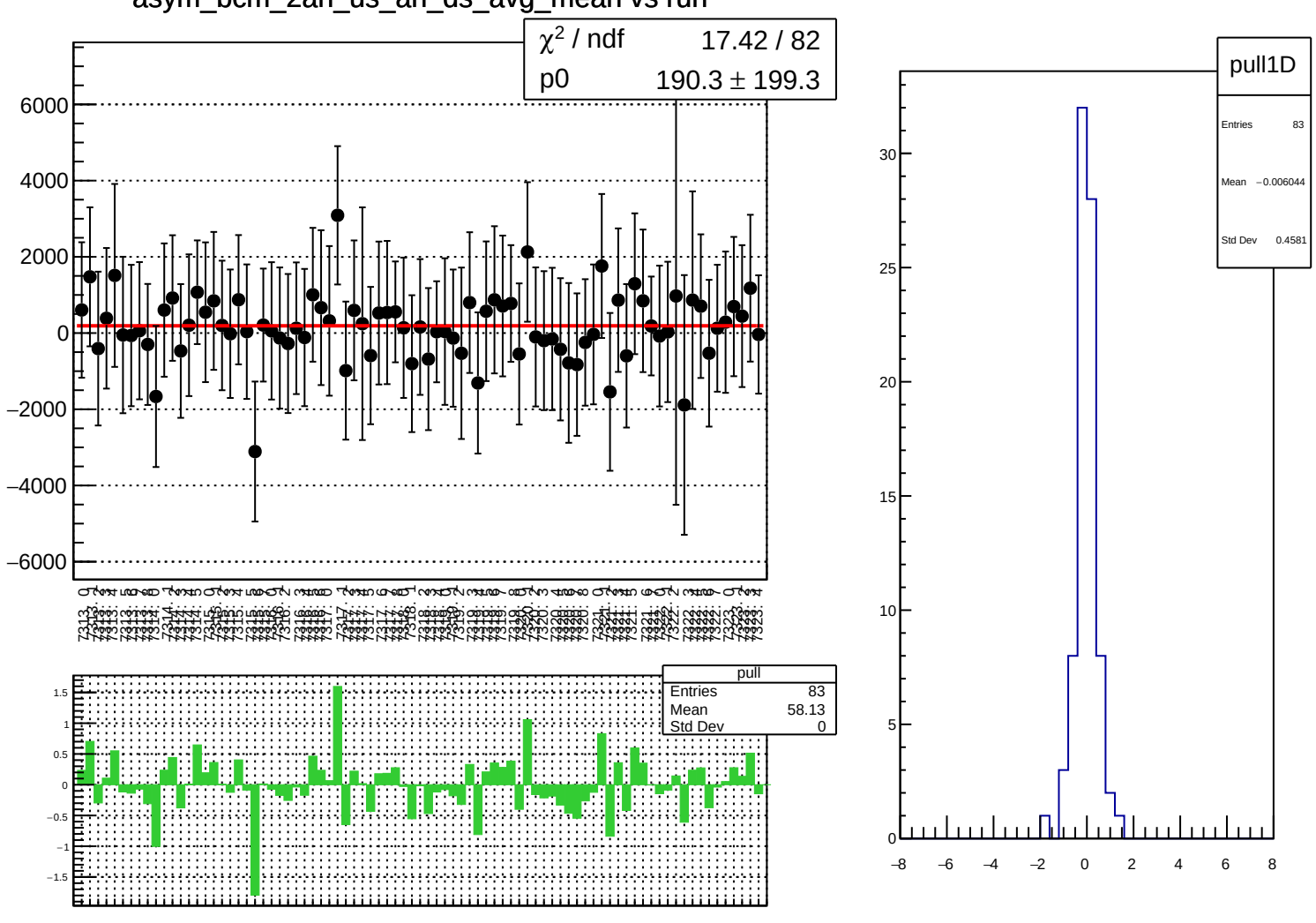

pull1D
Entries 83
Mean −0.005633
Std Dev 0.8348

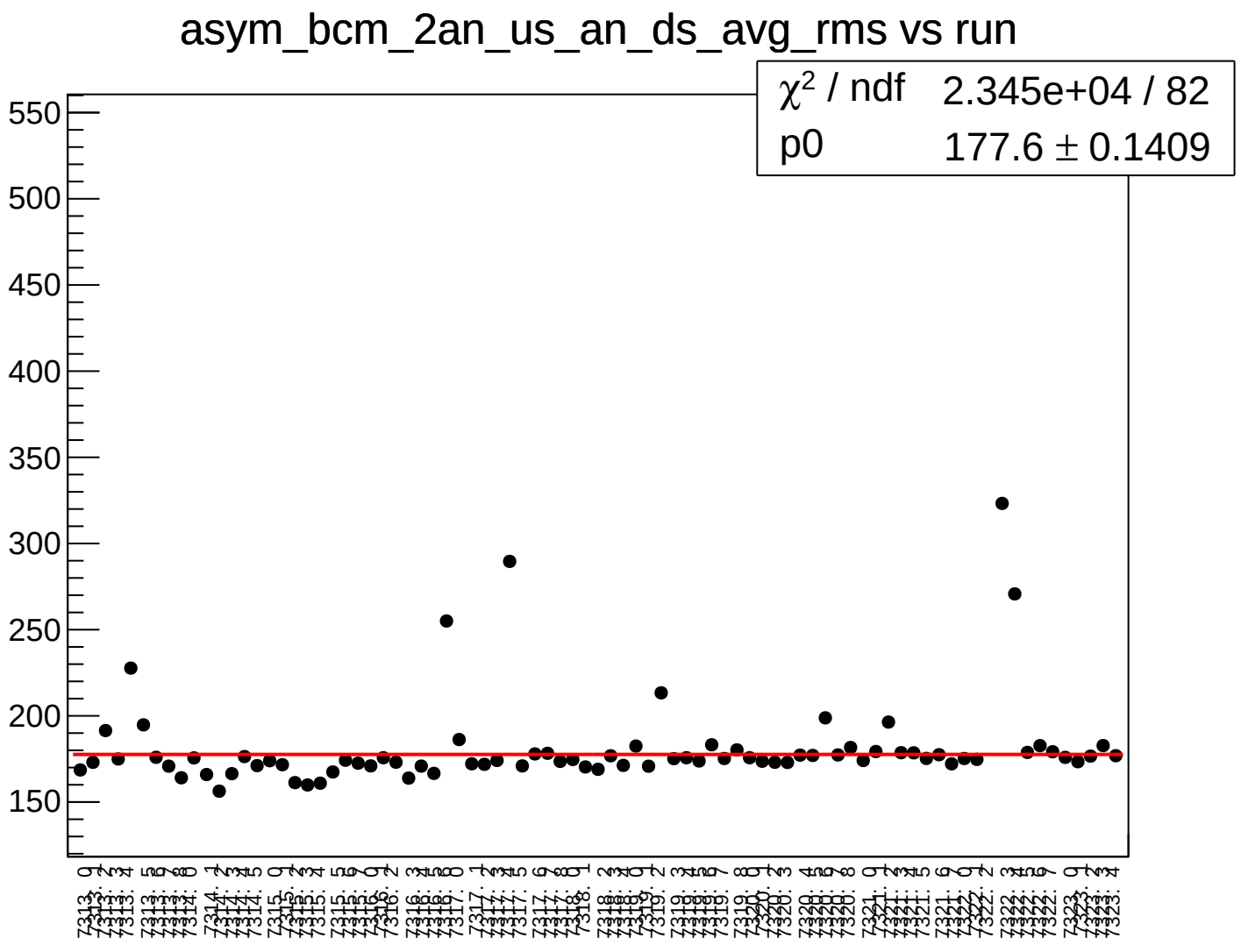

asym_bpm1i04WS_rms vs run
χ² / ndf 1.864e+04 / 82
p0 183.5 ± 0.1454
500
450
400
350
300
250
200
150

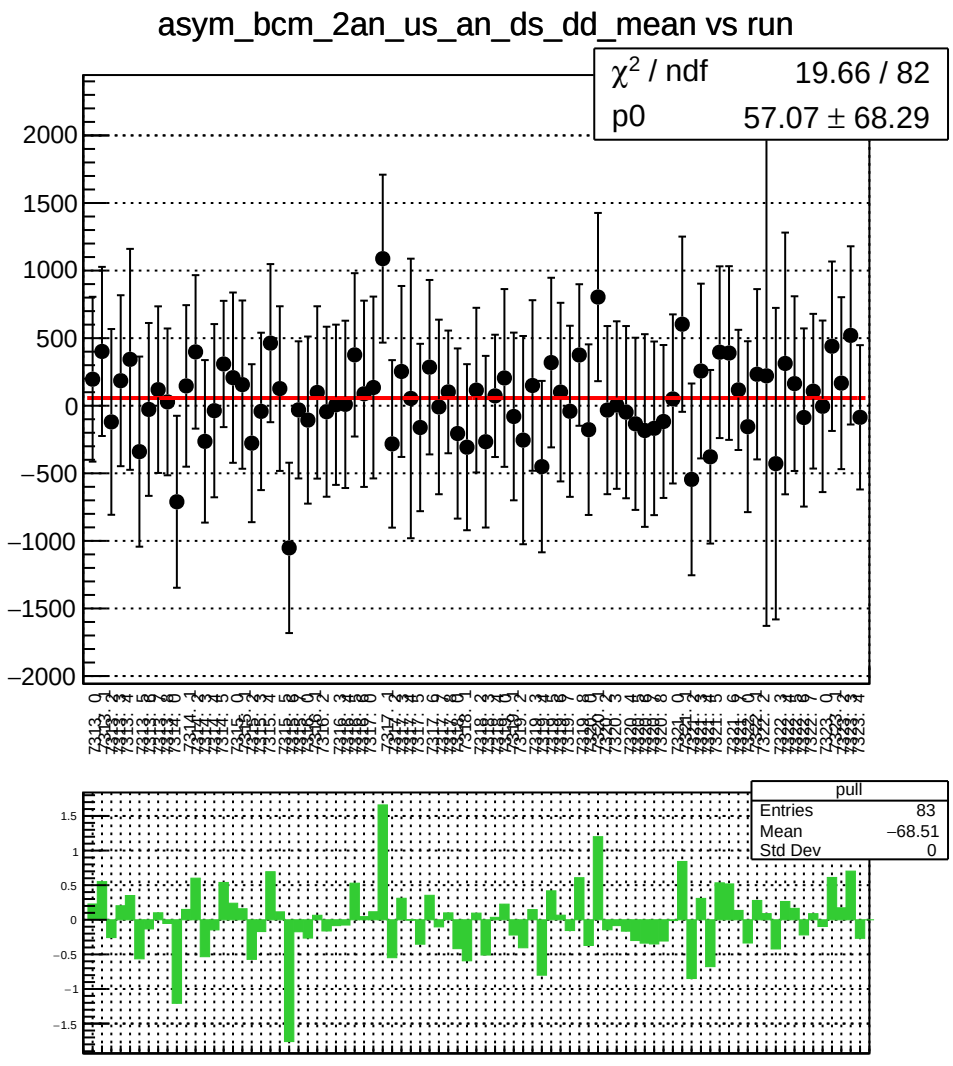

asym_bpm1i06WS_mean vs run
χ² / ndf 66.96 / 82
p0 1.362e+04 ± 239.9
pull
Entries 83
Mean −787.7
Std Dev 0

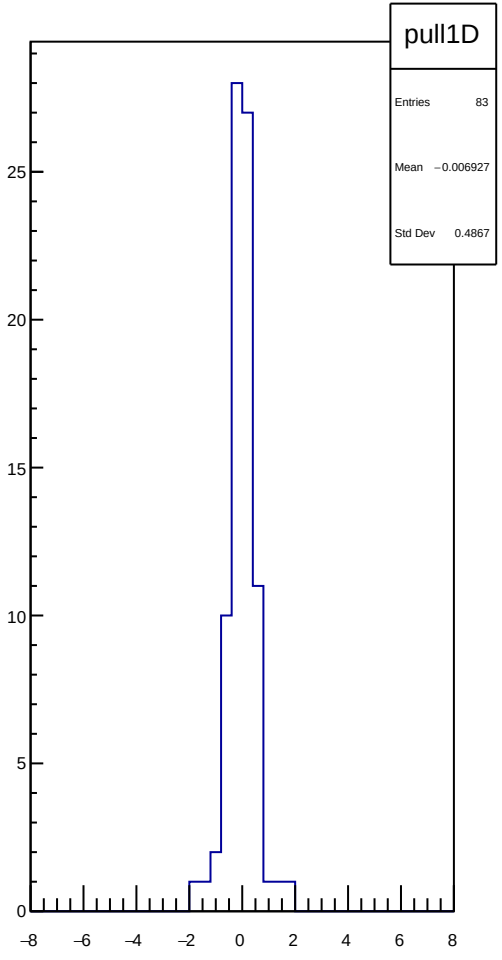

pull1D
Entries 83
Mean −0.008262
Std Dev 0.8981

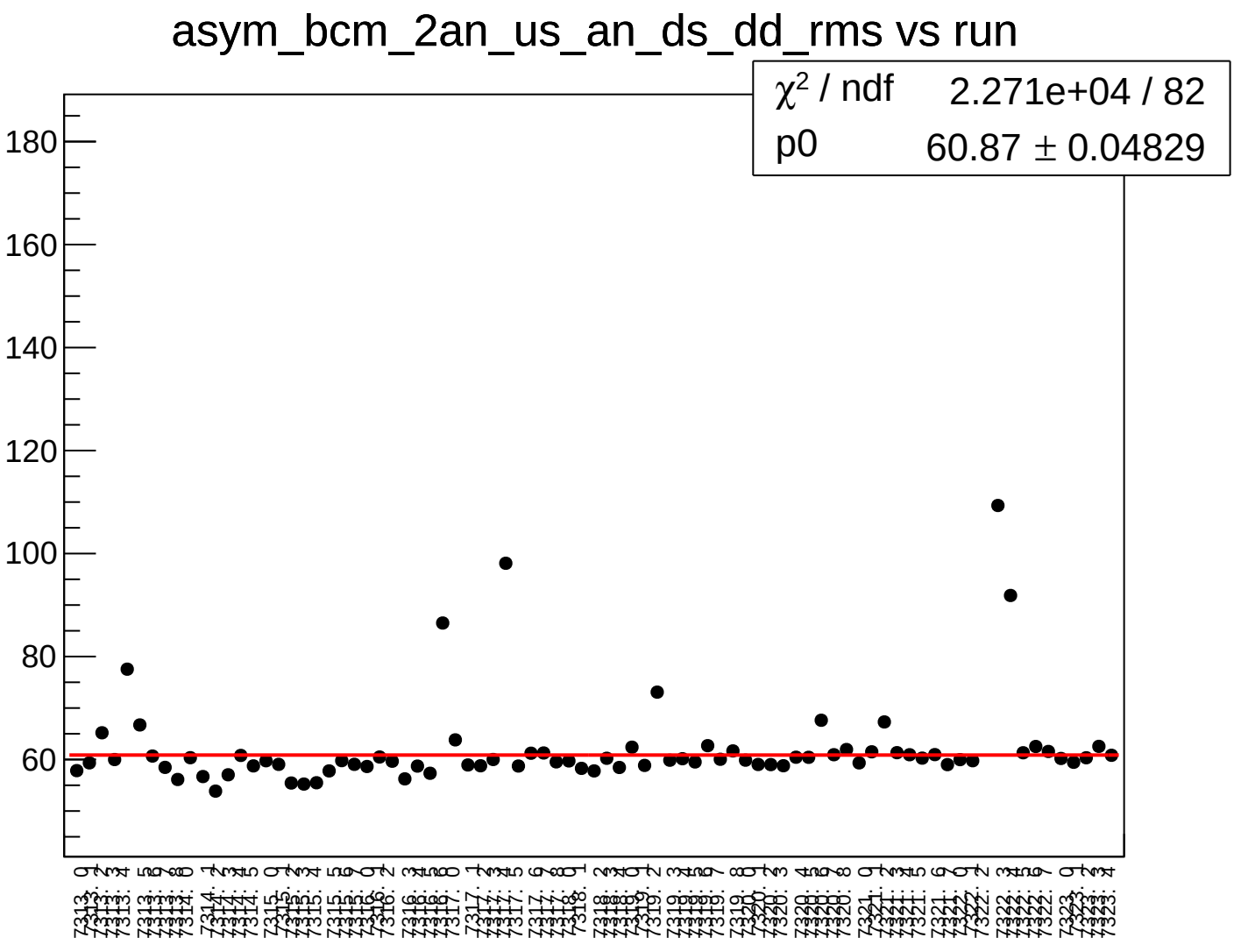

asym_bpm1i06WS_rms vs run
χ^2 / ndf 1.634e+04 / 82
p0 214.2 ± 0.1696
550
500
450
400
350
300
250
200

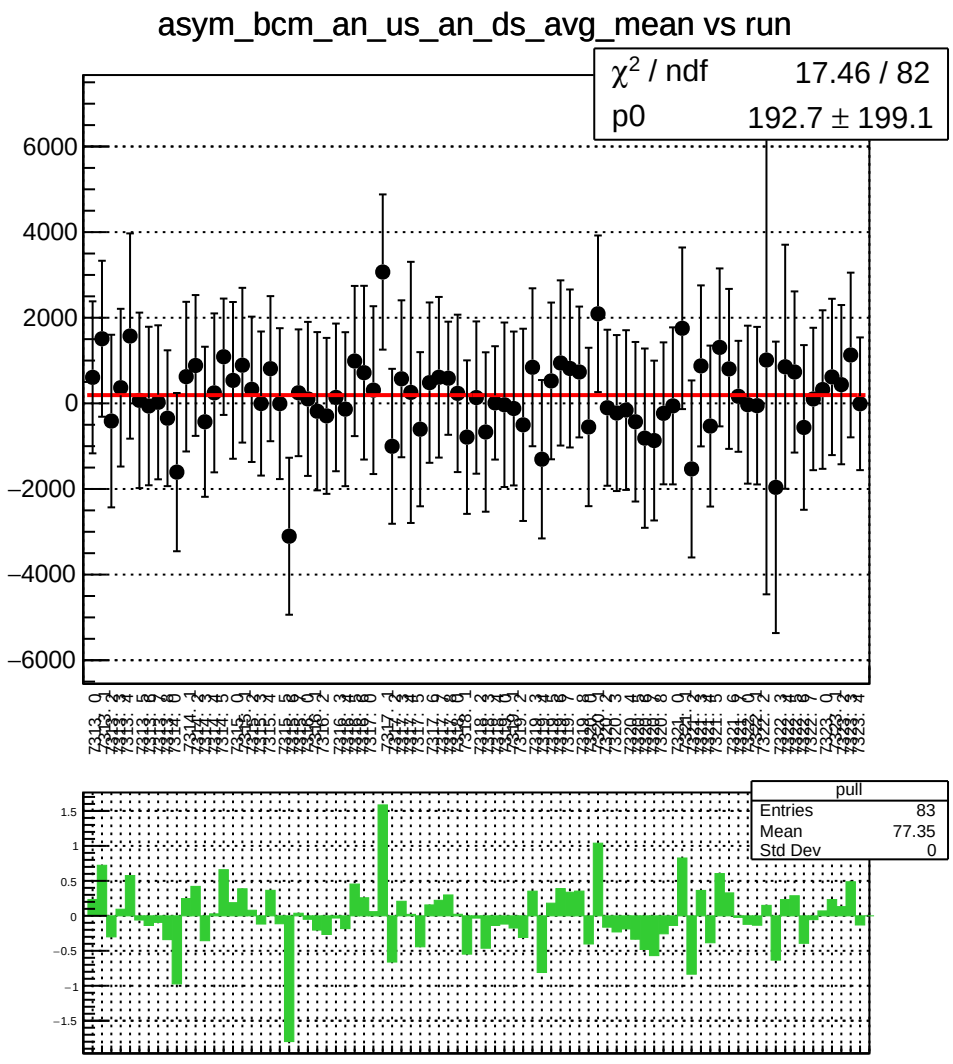

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 17.42 / 82
p0 190.3 ± 199.3
pull
Entries 83
Mean 58.13
Std Dev 0
pull1D
Entries 83
Mean −0.006044
Std Dev 0.4581

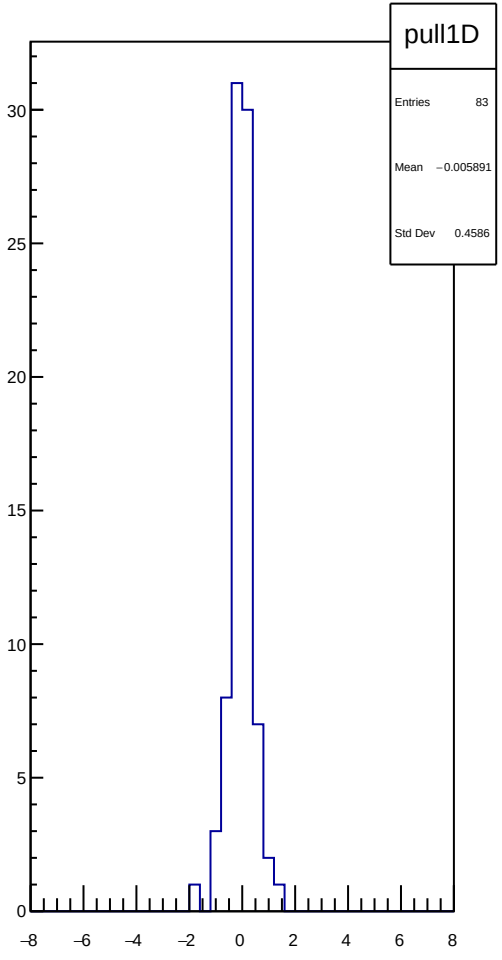

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.345e+04 / 82
p0 177.6 ± 0.1409
550
500
450
400
350
300
250
200
150

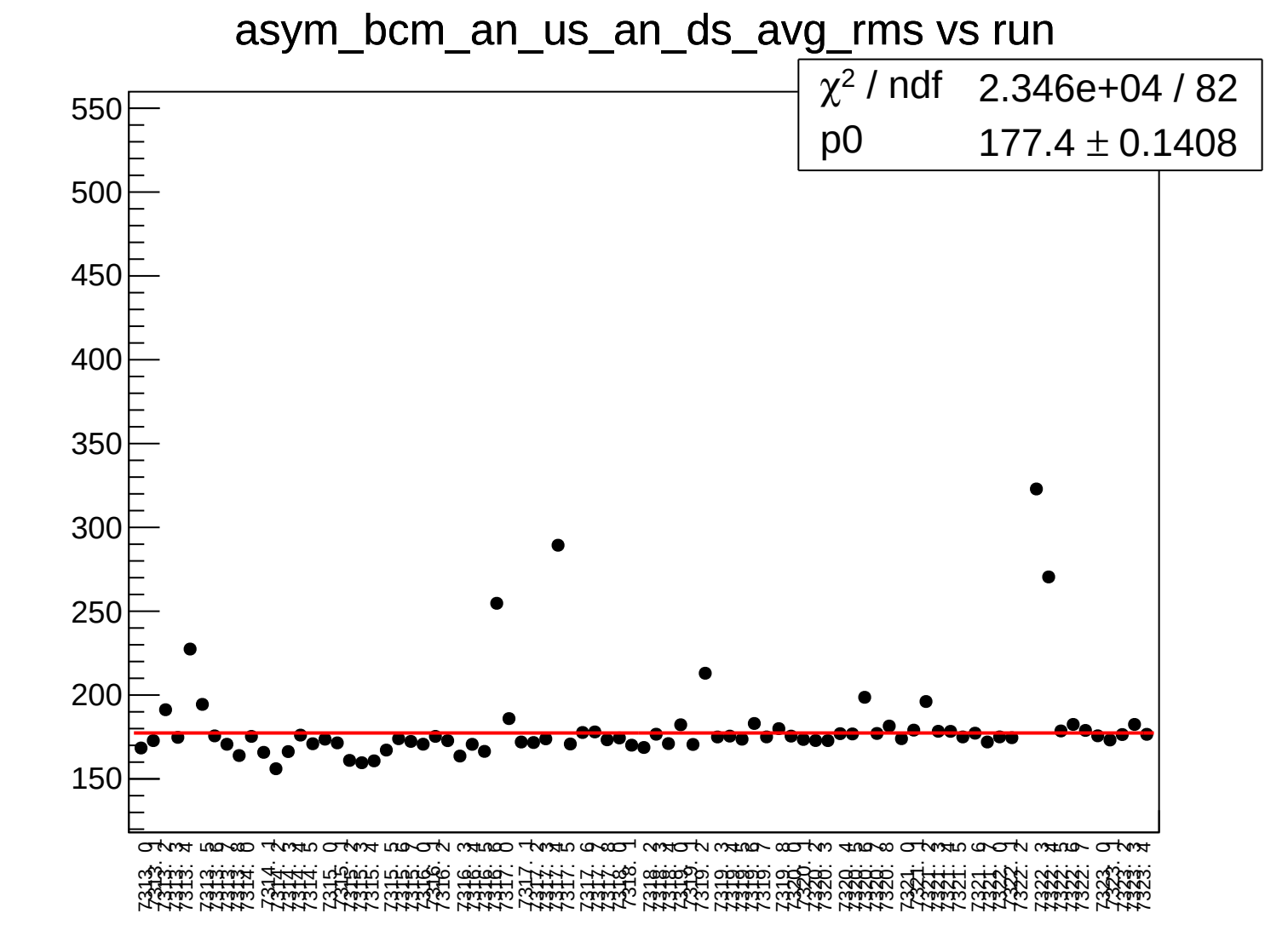

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 19.66 / 82
p0 57.07 ± 68.29
pull
Entries 83
Mean −68.51
Std Dev 0

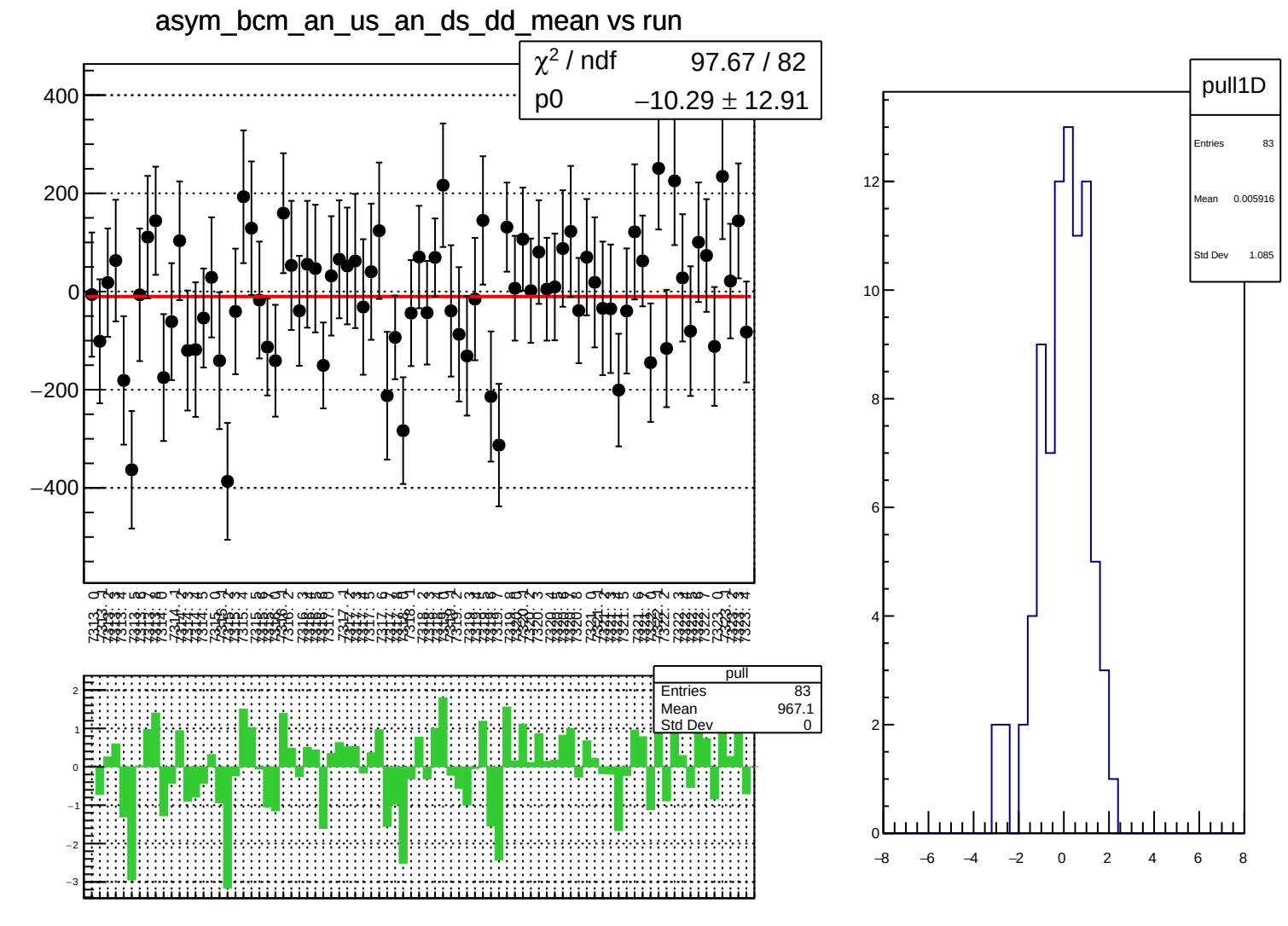

pull1D
Entries 83
Mean −0.006927
Std Dev 0.4867

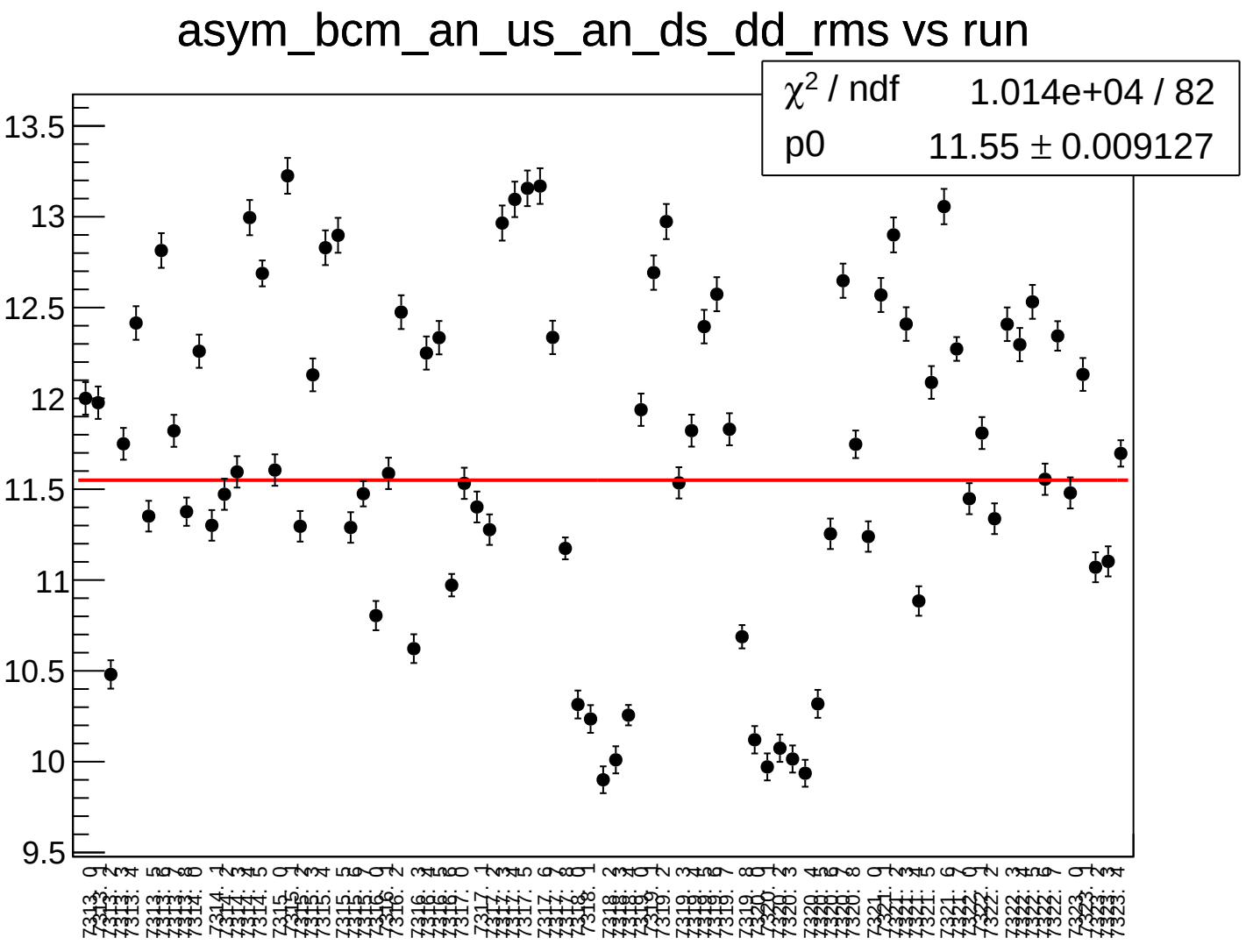

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2.271e+04 / 82
p0 60.87 ± 0.04829
180
160
140
120
100
80
60

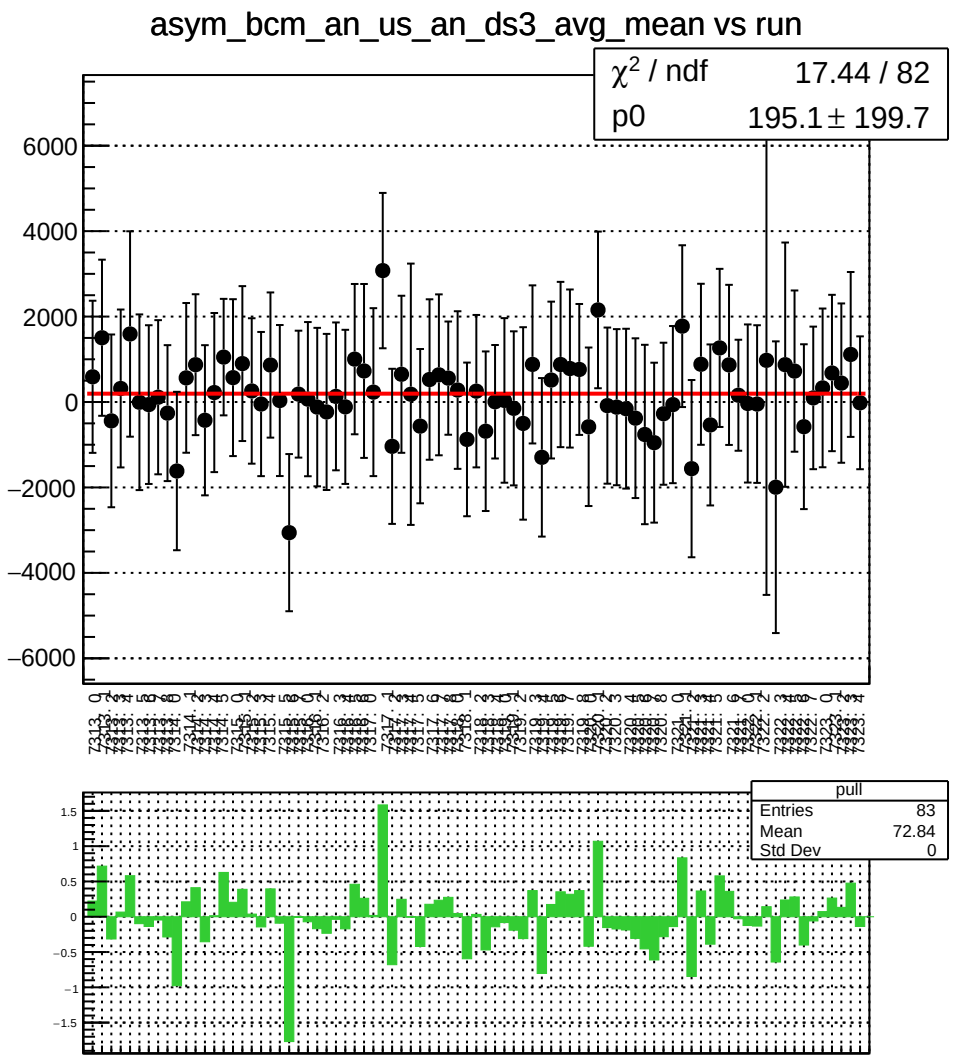

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 17.46 / 82
p0 192.7 ± 199.1
pull
Entries 83
Mean 77.35
Std Dev 0

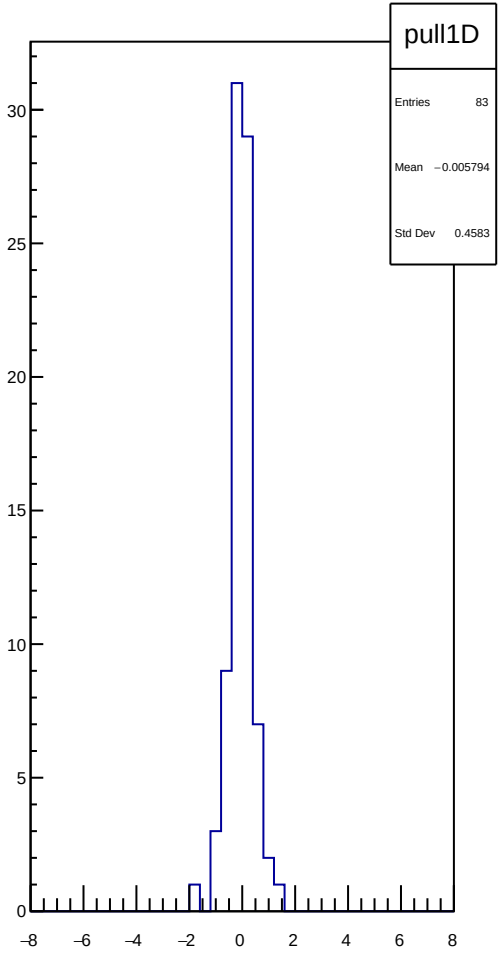

pull1D
Entries 83
Mean −0.005891
Std Dev 0.4586

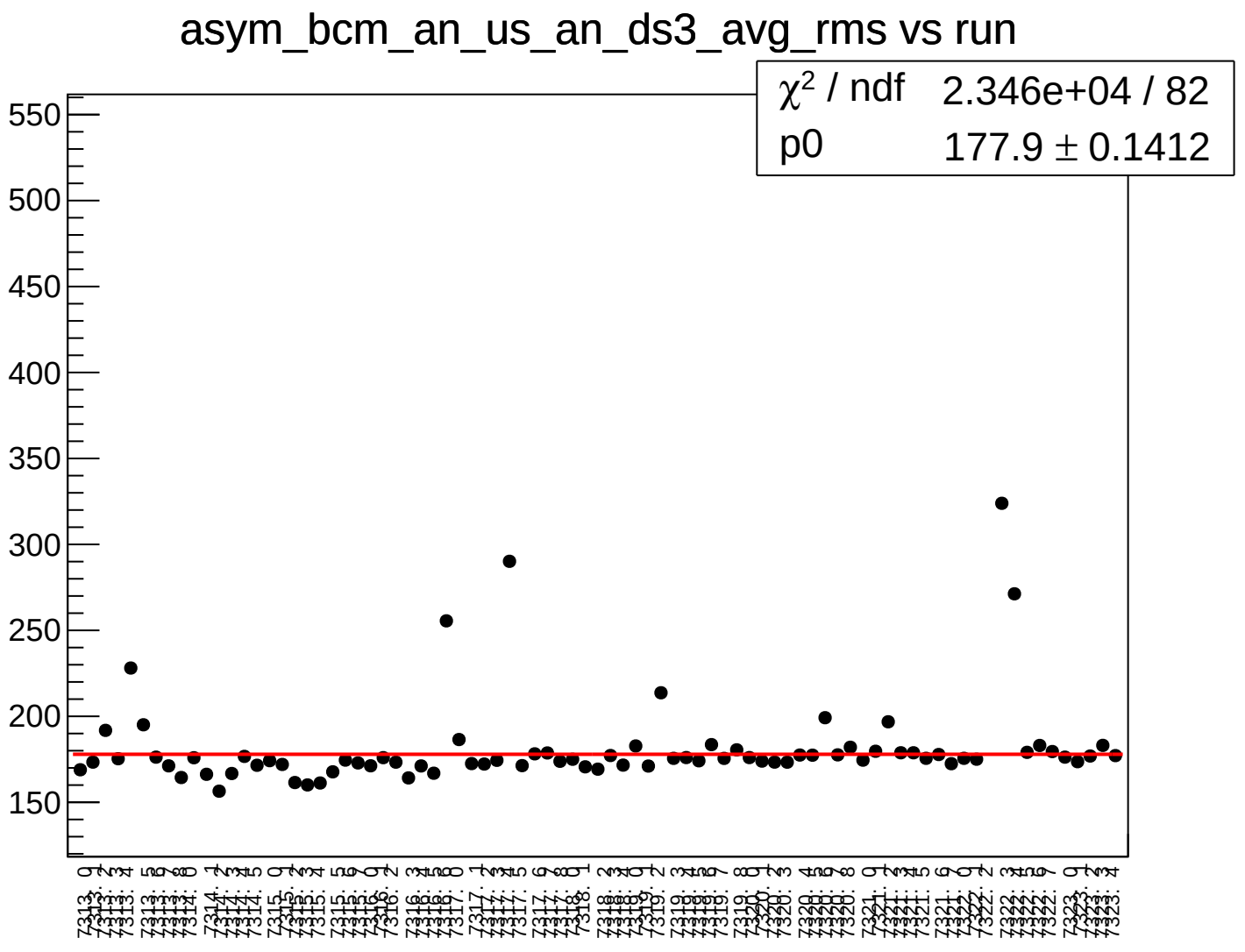

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.346e+04 / 82
p0 177.4 ± 0.1408
550
500
450
400
350
300
250
200
150

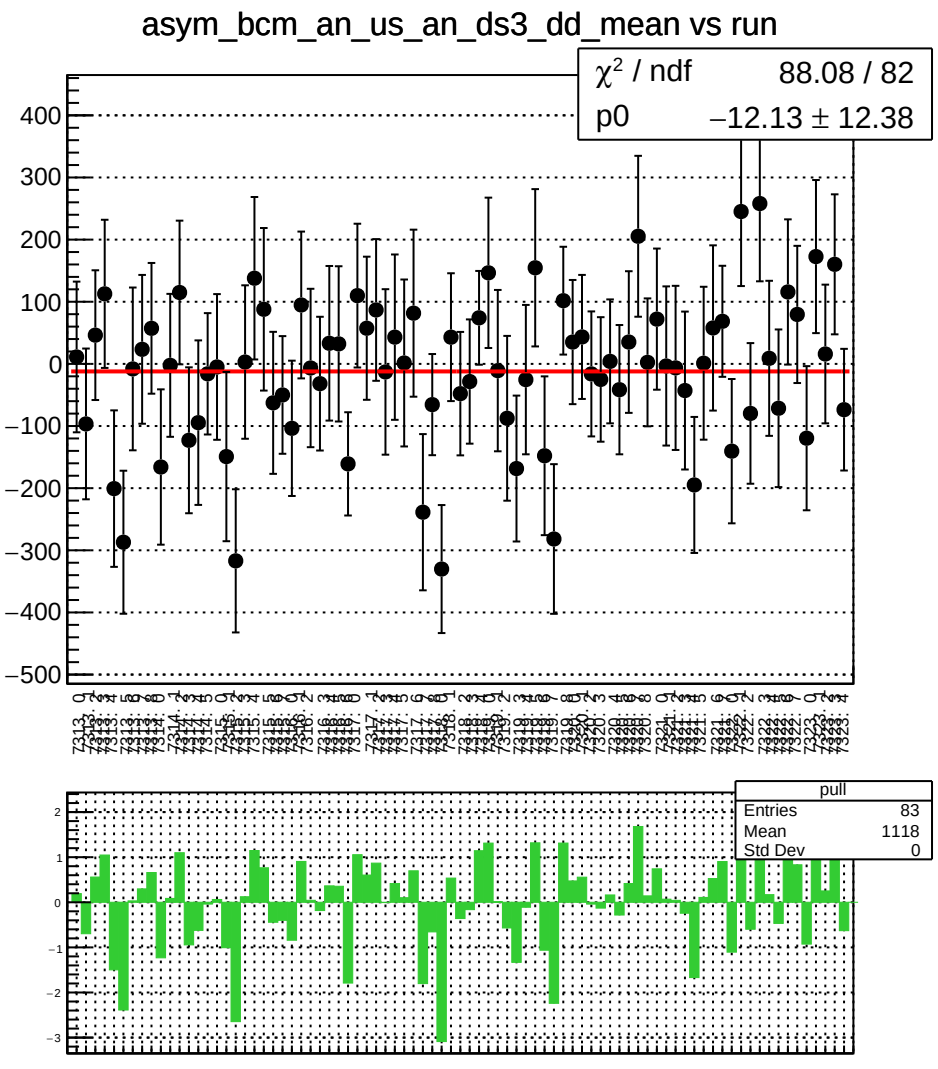

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 97.67 / 82
p0 −10.29 ± 12.91
pull
Entries 83
Mean 967.1
Std Dev 0
pull1D
Entries 83
Mean 0.005916
Std Dev 1.085

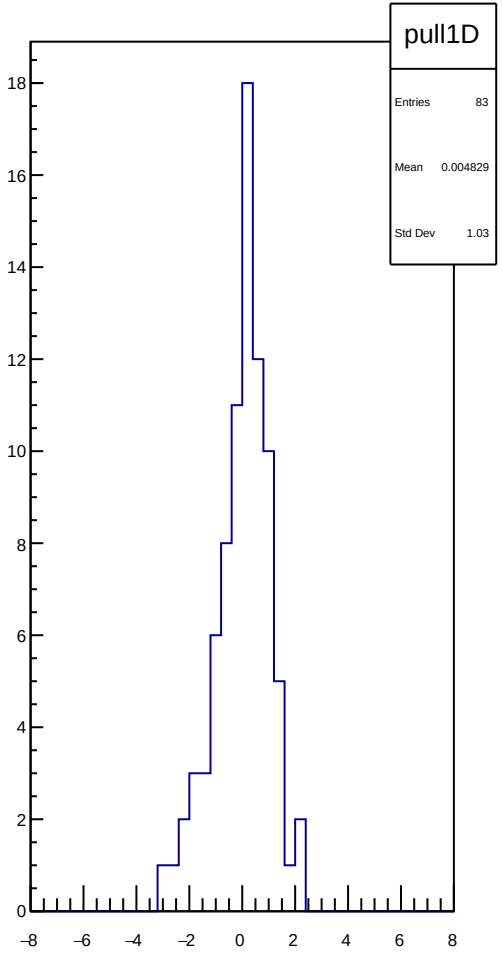

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.014e+04 / 82
p0 11.55 ± 0.009127
13.5
13
12.5
12
11.5
11
10.5
10
9.5

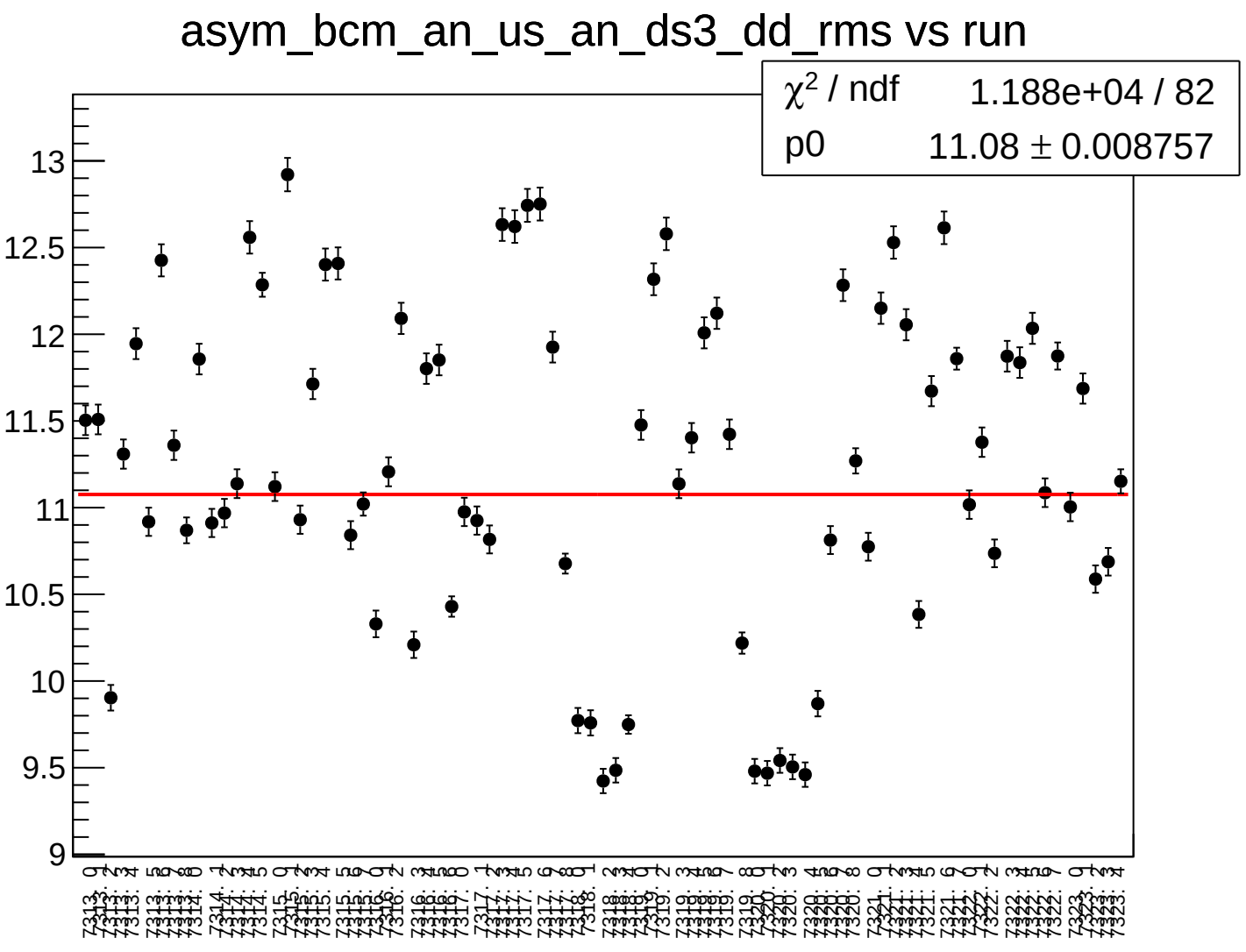

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 17.44 / 82
p0 195.1 ± 199.7
pull
Entries 83
Mean 72.84
Std Dev 0

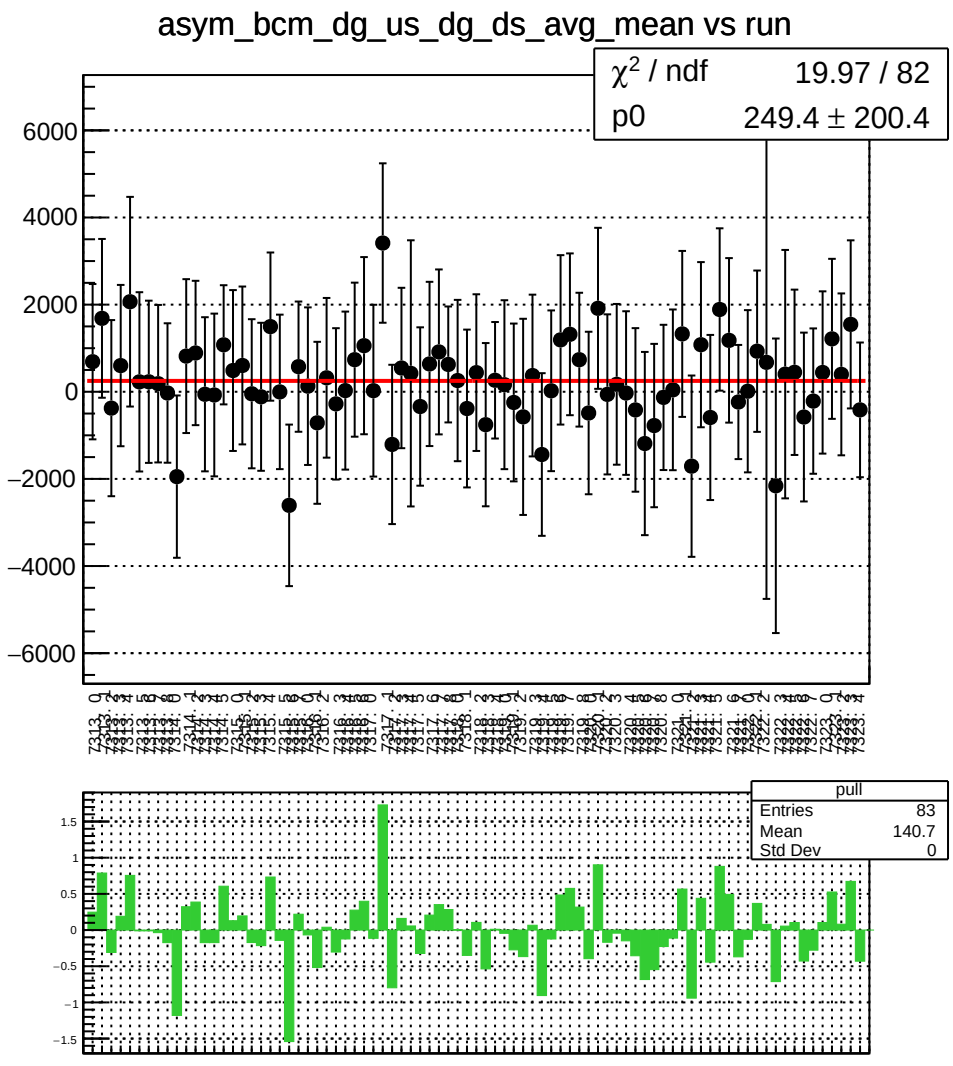

pull1D
Entries 83
Mean −0.005794
Std Dev 0.4583

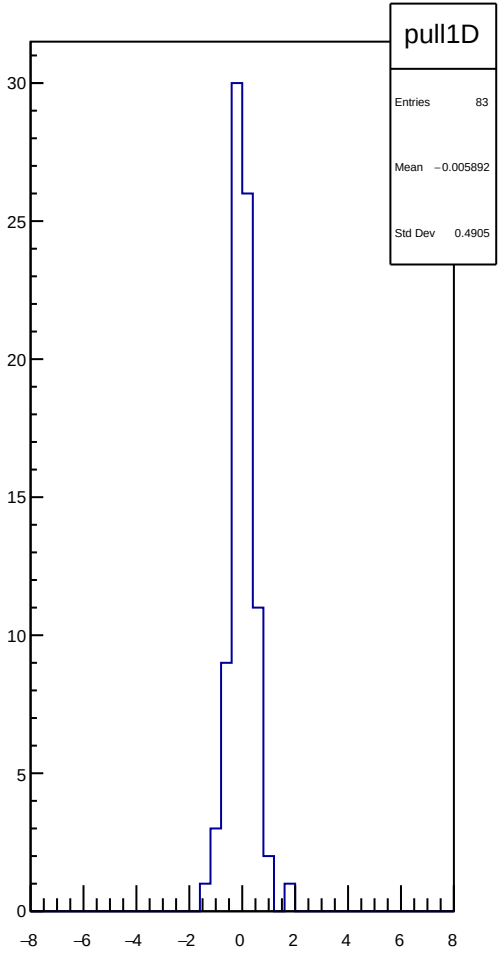

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2.346e+04 / 82
p0 177.9 ± 0.1412
550
500
450
400
350
300
250
200
150

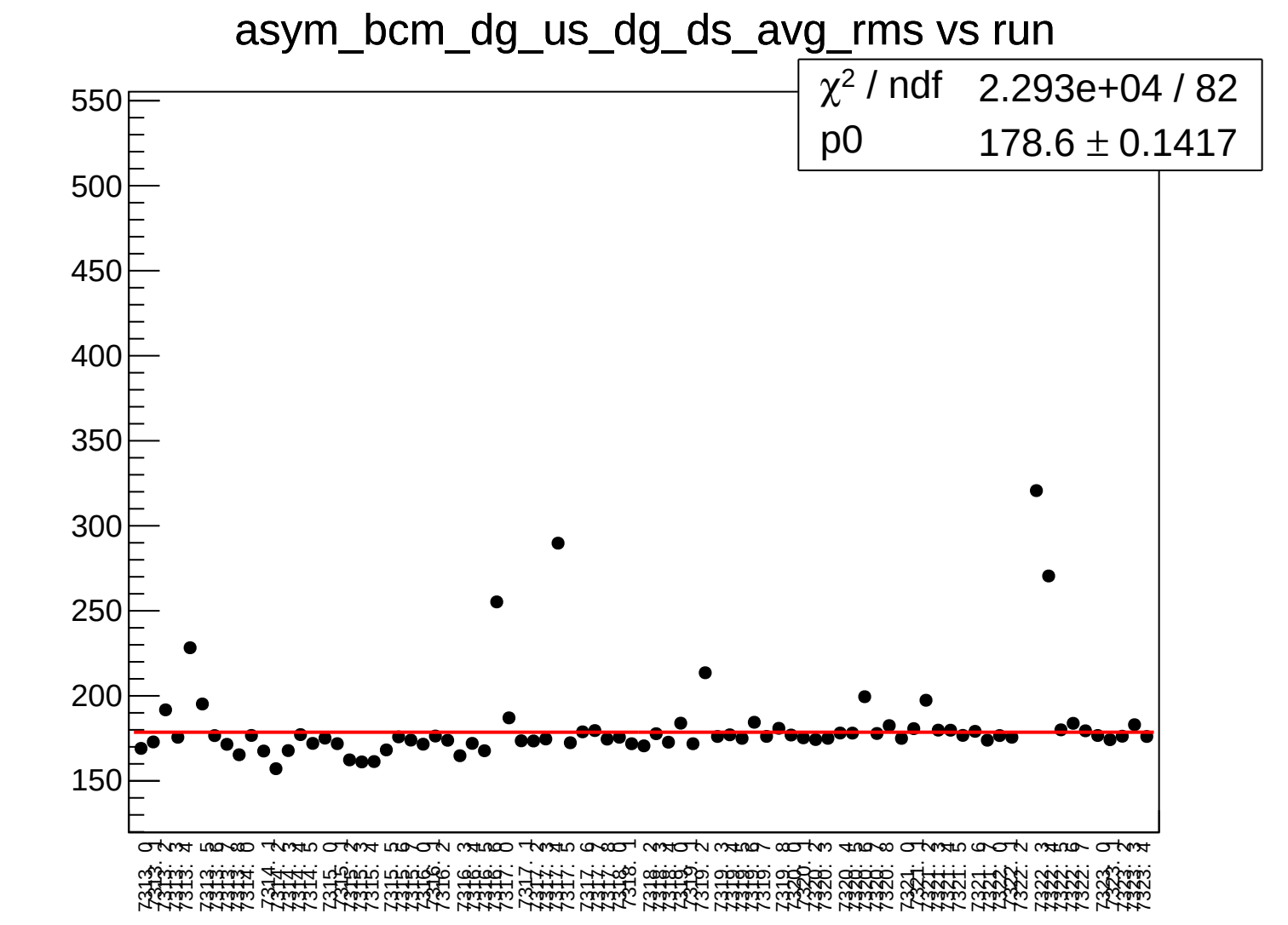

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 88.08 / 82
p0 −12.13 ± 12.38
pull
Entries 83
Mean 1118
Std Dev 0

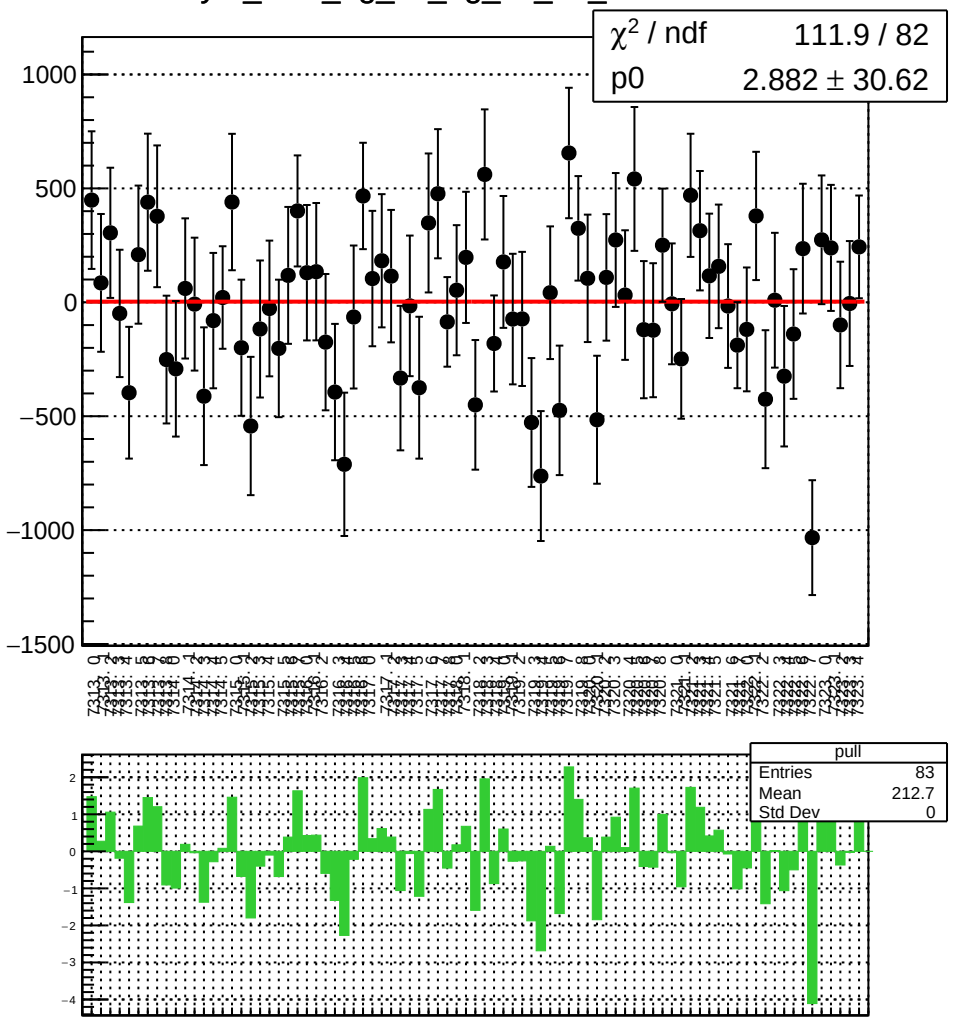

pull1D
Entries 83
Mean 0.004829
Std Dev 1.03

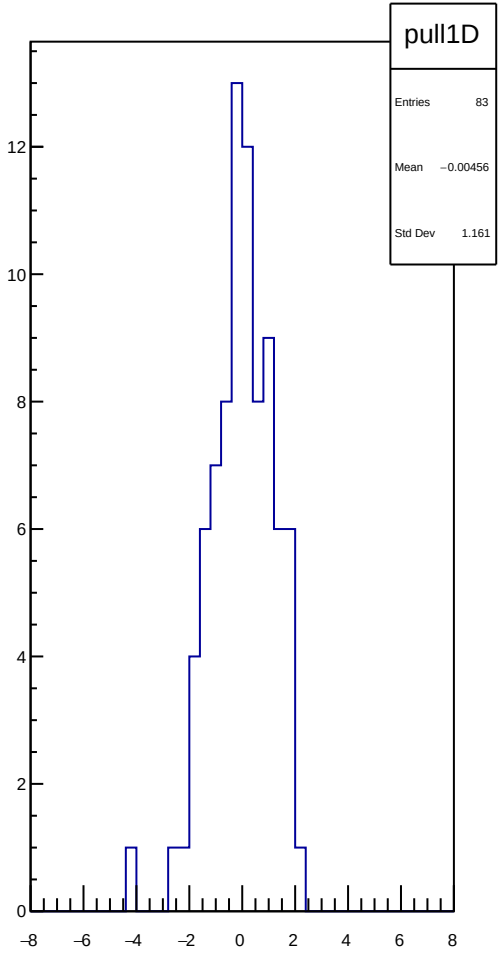

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.188e+04 / 82
p0 11.08 ± 0.008757
13
12.5
12
11.5
11
10.5
10
9.5
9

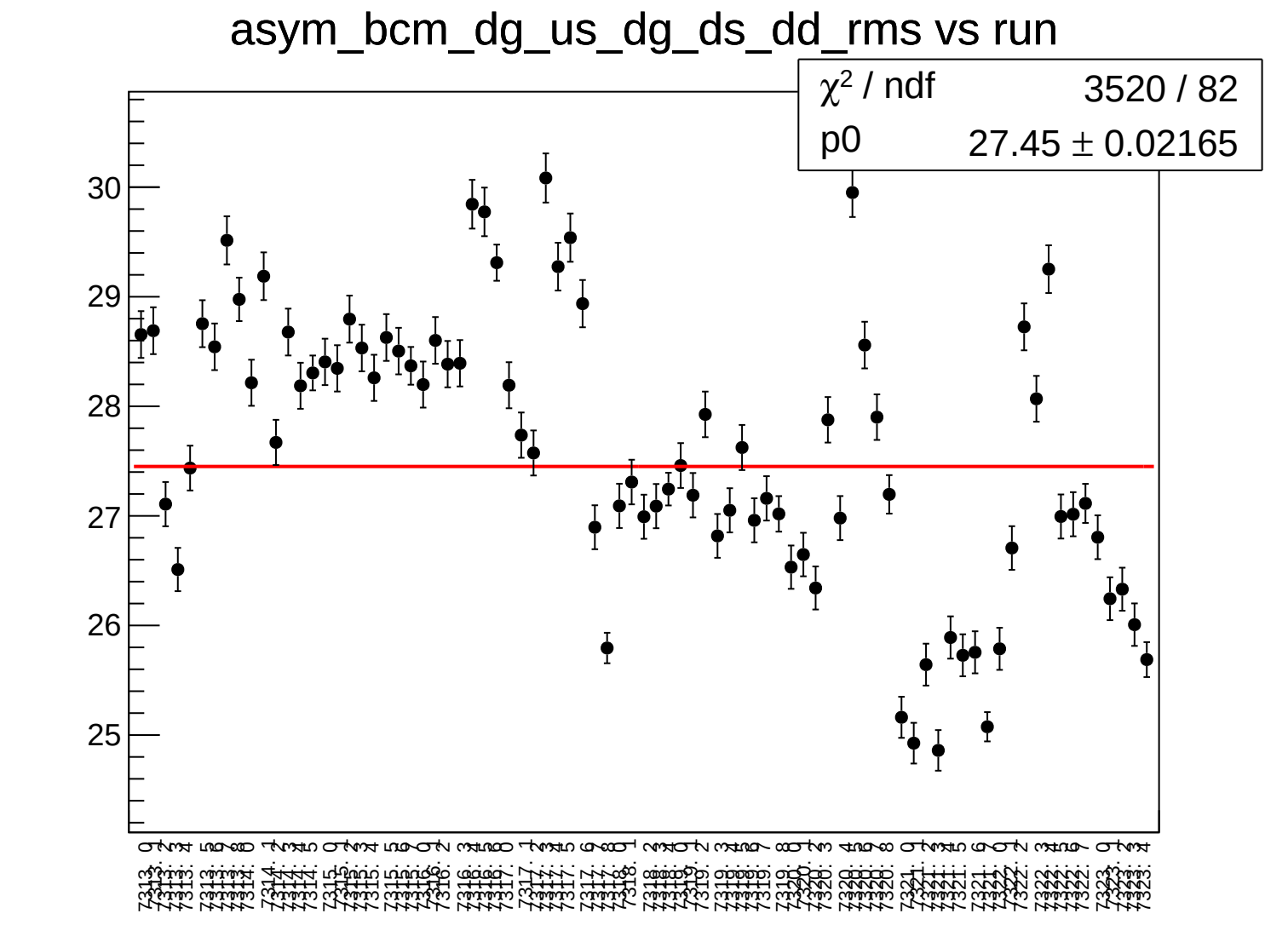

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 19.97 / 82
p0 249.4 ± 200.4
pull
Entries 83
Mean 140.7
Std Dev 0

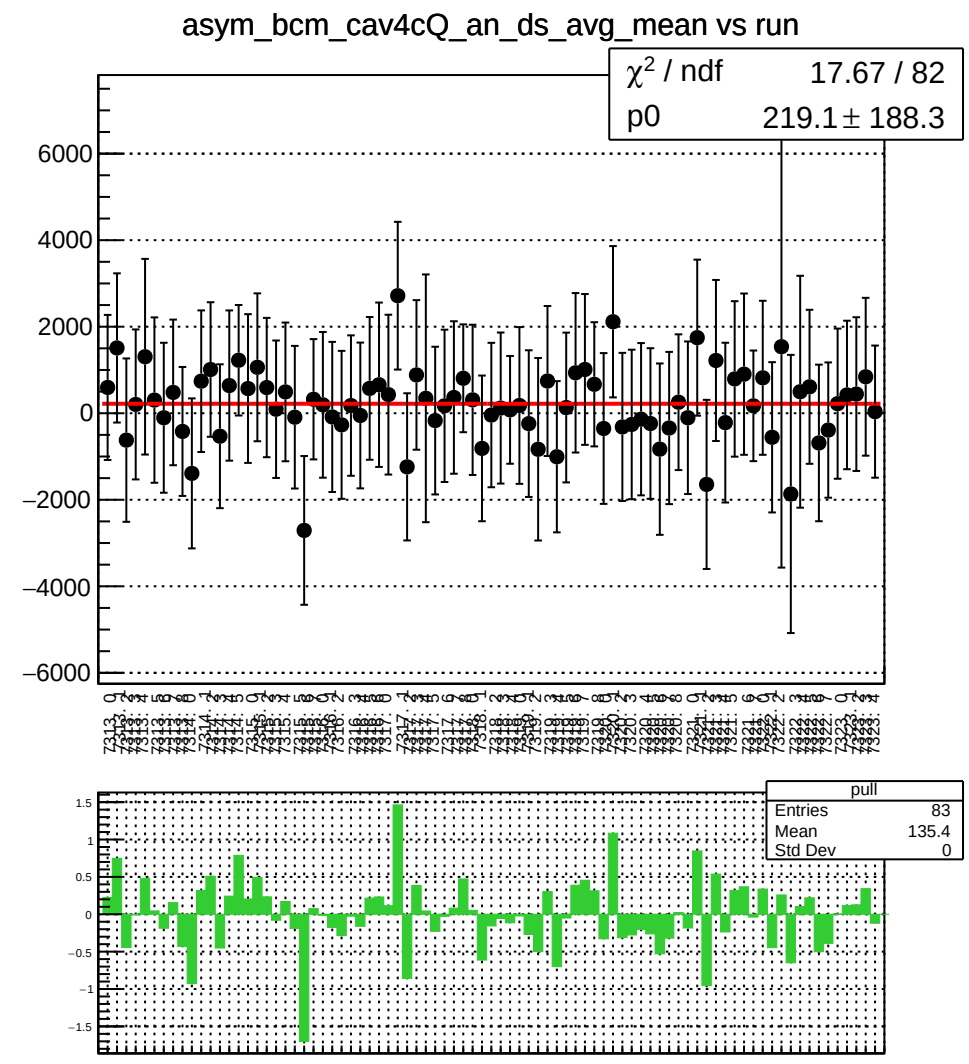

pull1D
Entries 83
Mean −0.005892
Std Dev 0.4905

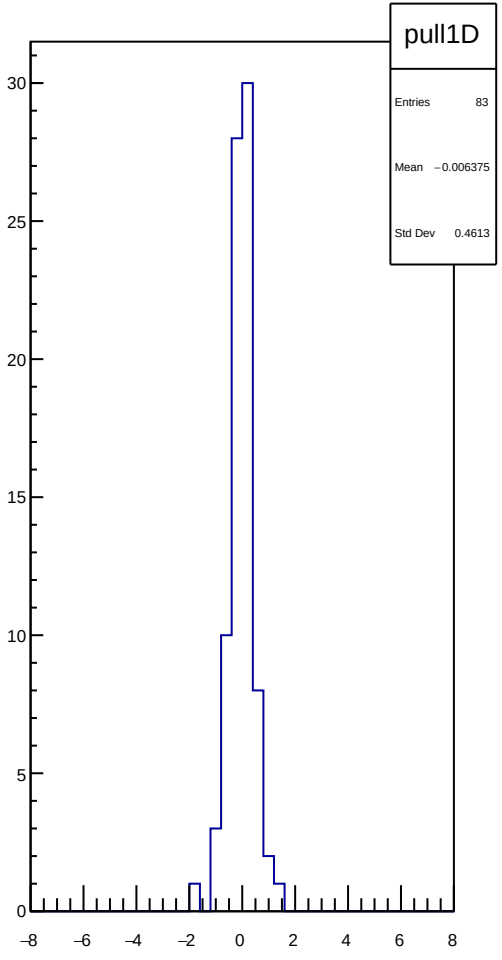

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2.293e+04 / 82
p0 178.6 ± 0.1417
550
500
450
400
350
300
250
200
150

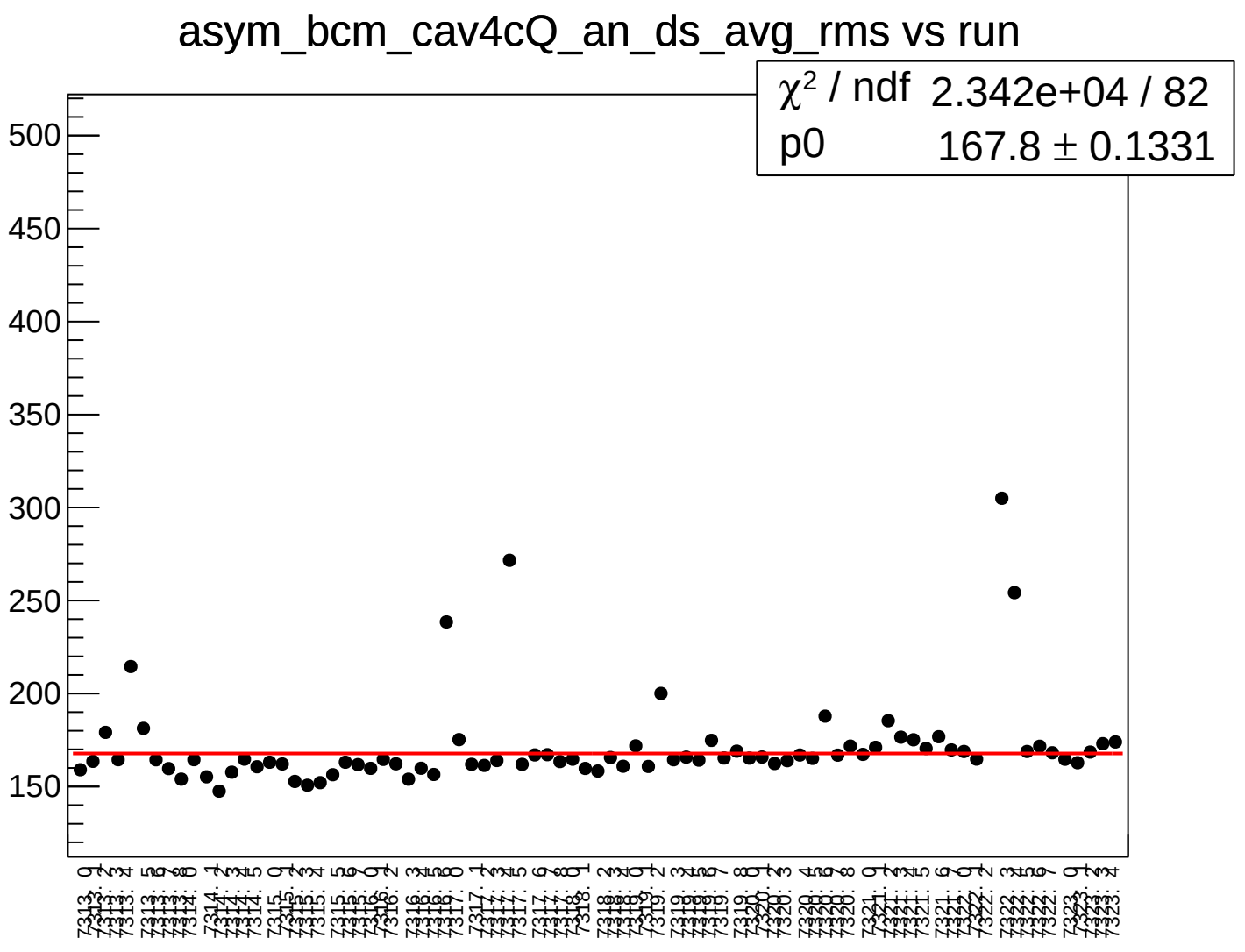

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 111.9 / 82
p0 2.882 ± 30.62
pull
Entries 83
Mean 212.7
Std Dev 0

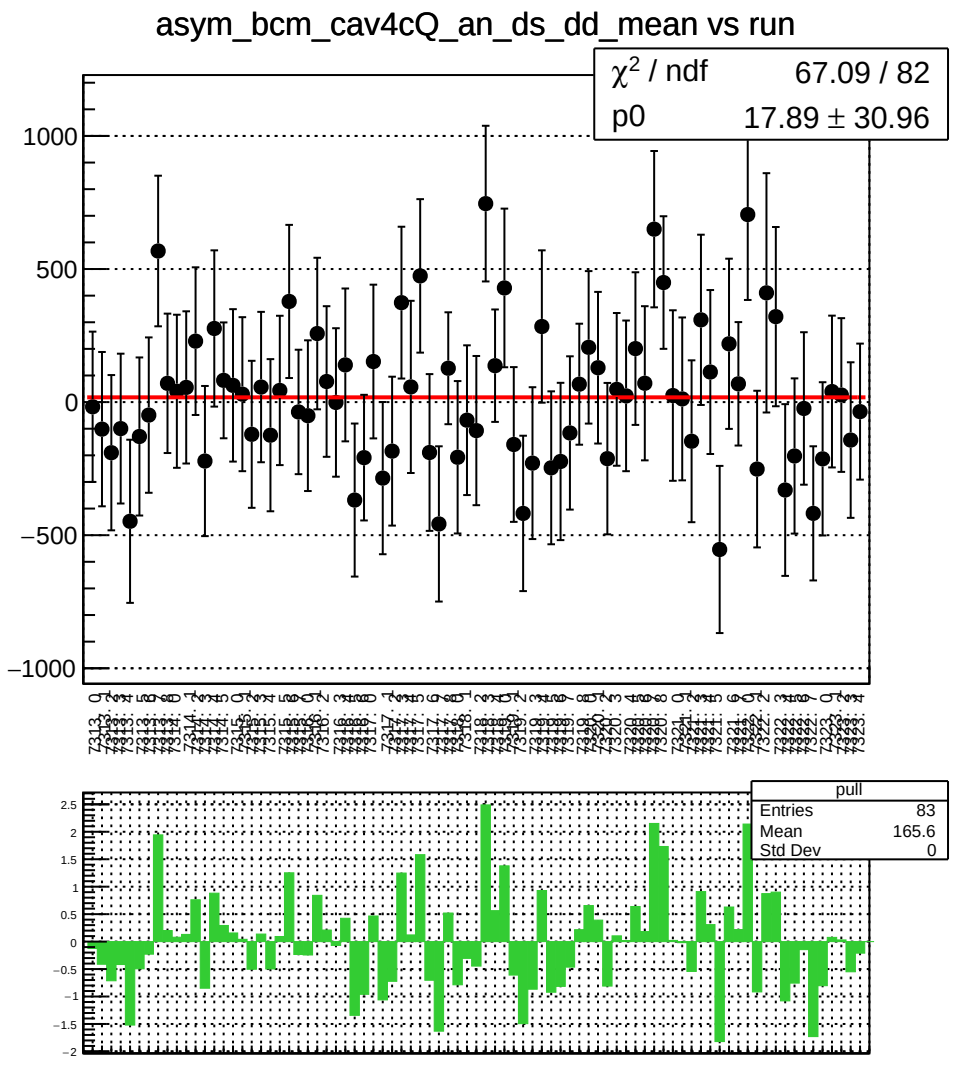

pull1D
Entries 83
Mean −0.00456
Std Dev 1.161

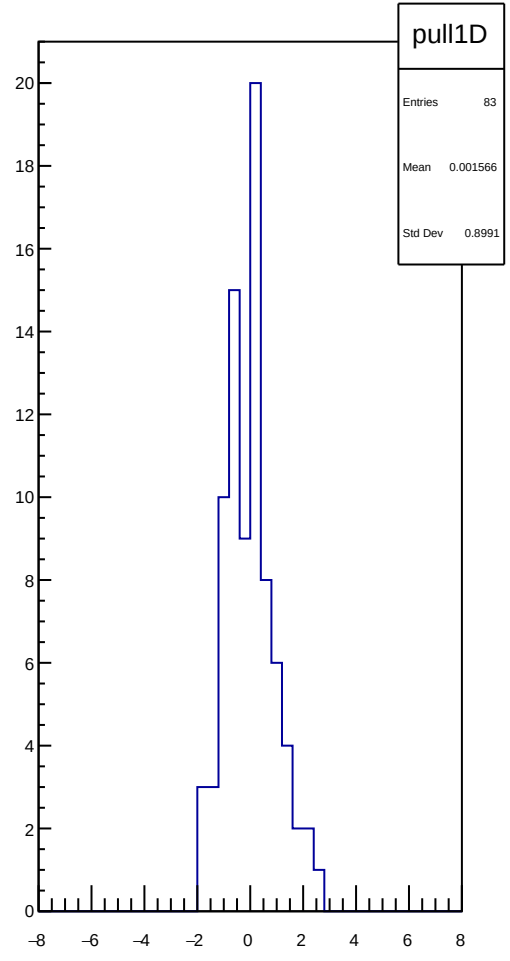

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3520 / 82
p0 27.45 ± 0.02165
30
29
28
27
26
25

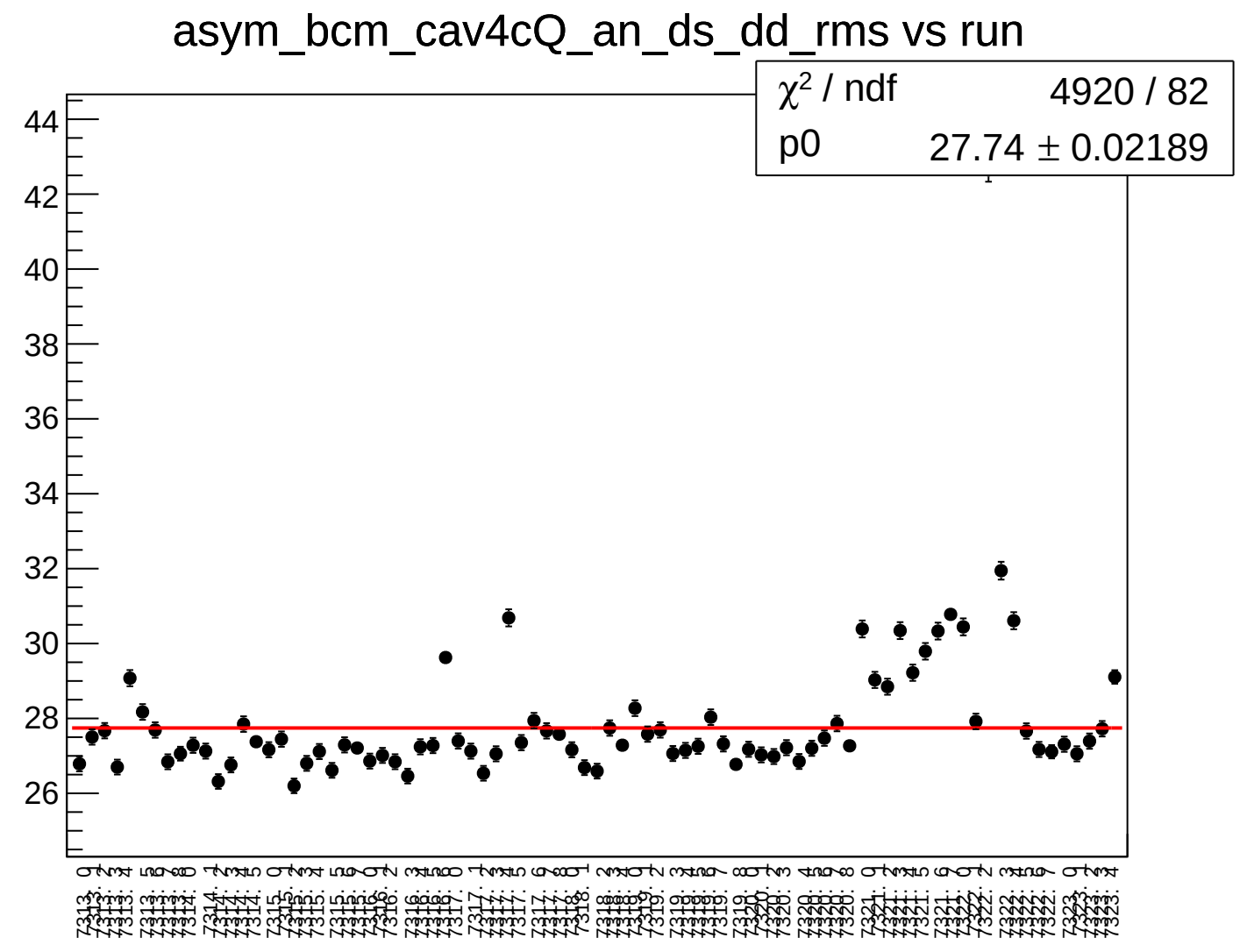

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 17.67 / 82
p0 219.1 ± 188.3
pull
Entries 83
Mean 135.4
Std Dev 0

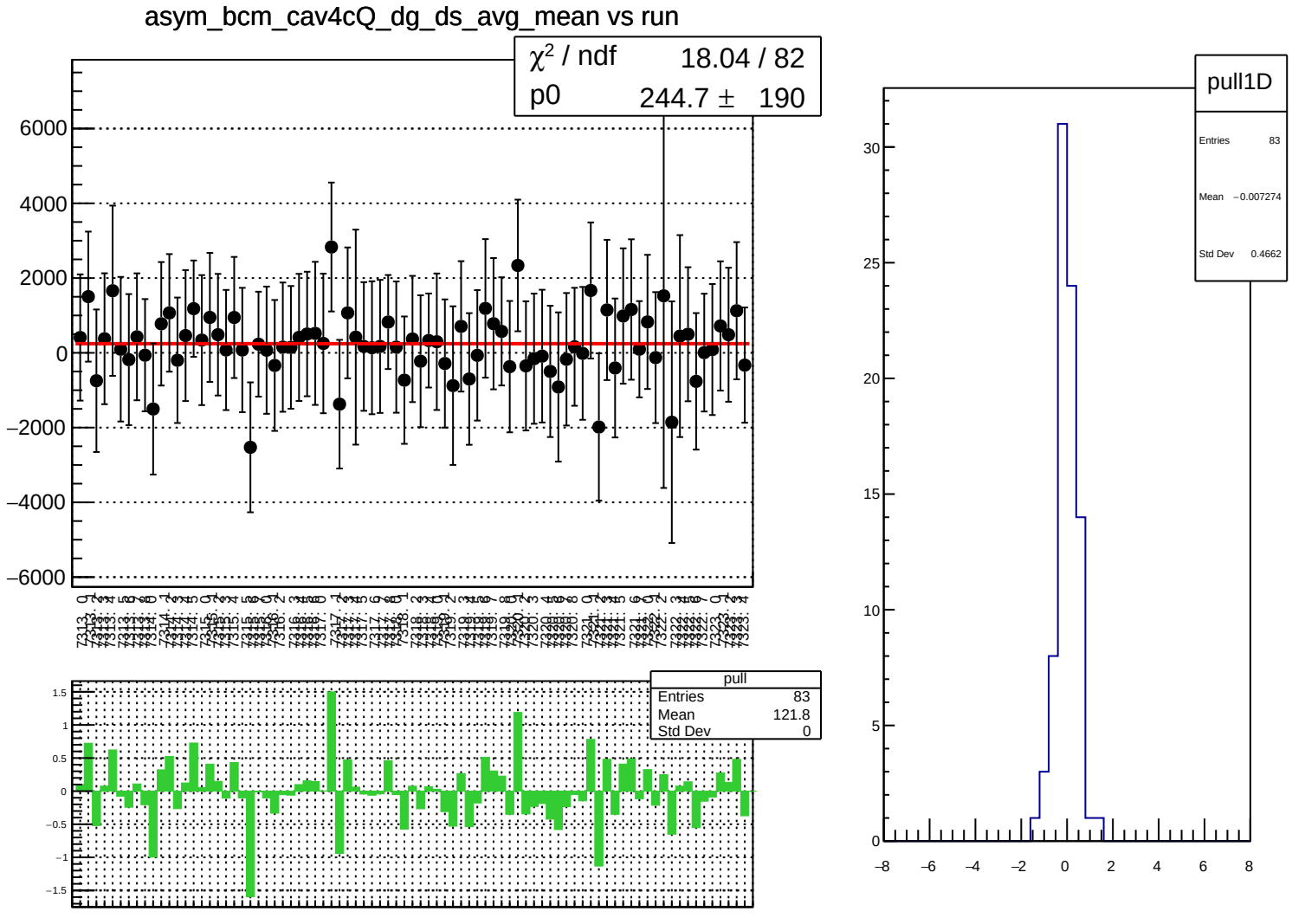

pull1D
Entries 83
Mean −0.006375
Std Dev 0.4613

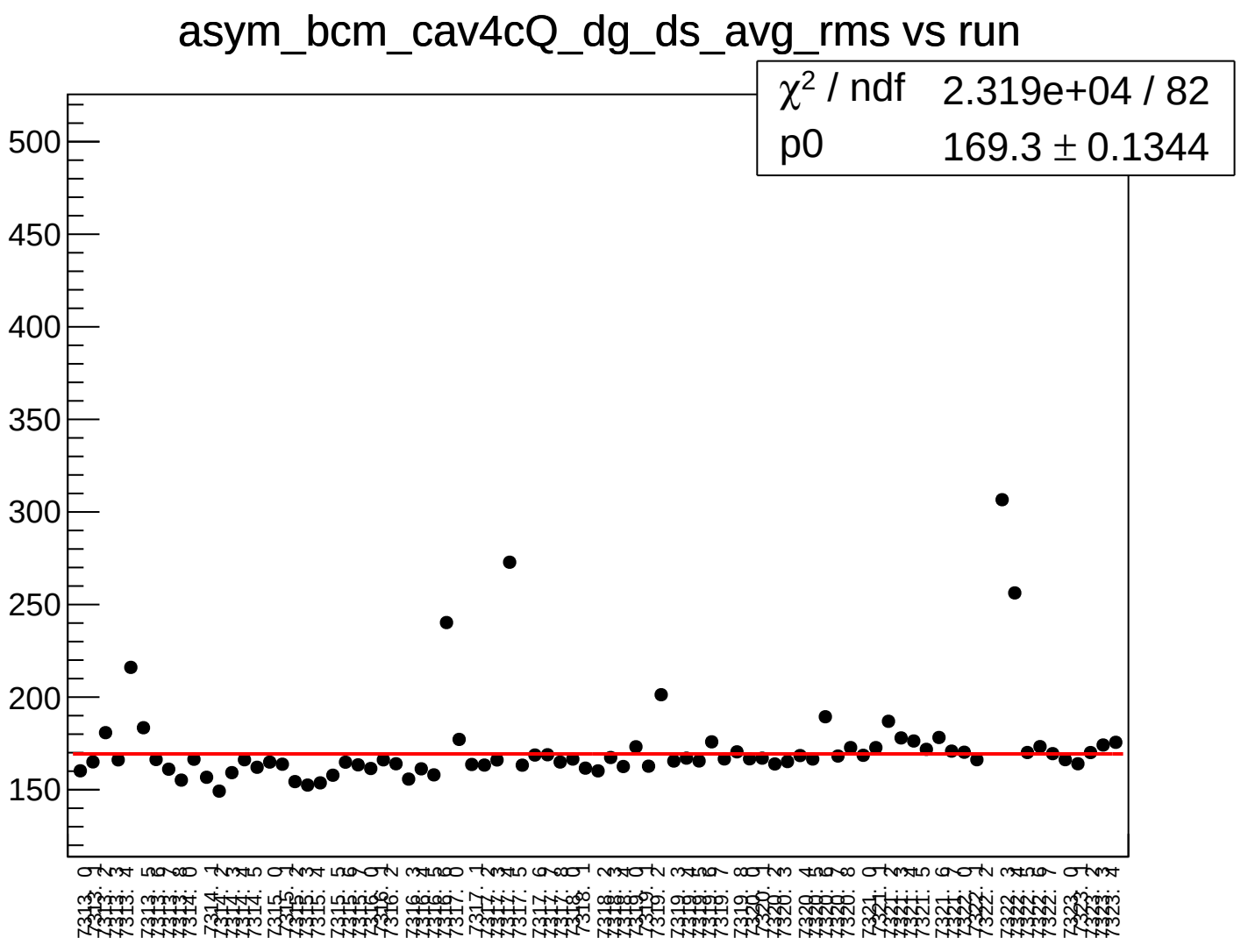

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.342e+04 / 82
p0 167.8 ± 0.1331
500
450
400
350
300
250
200
150

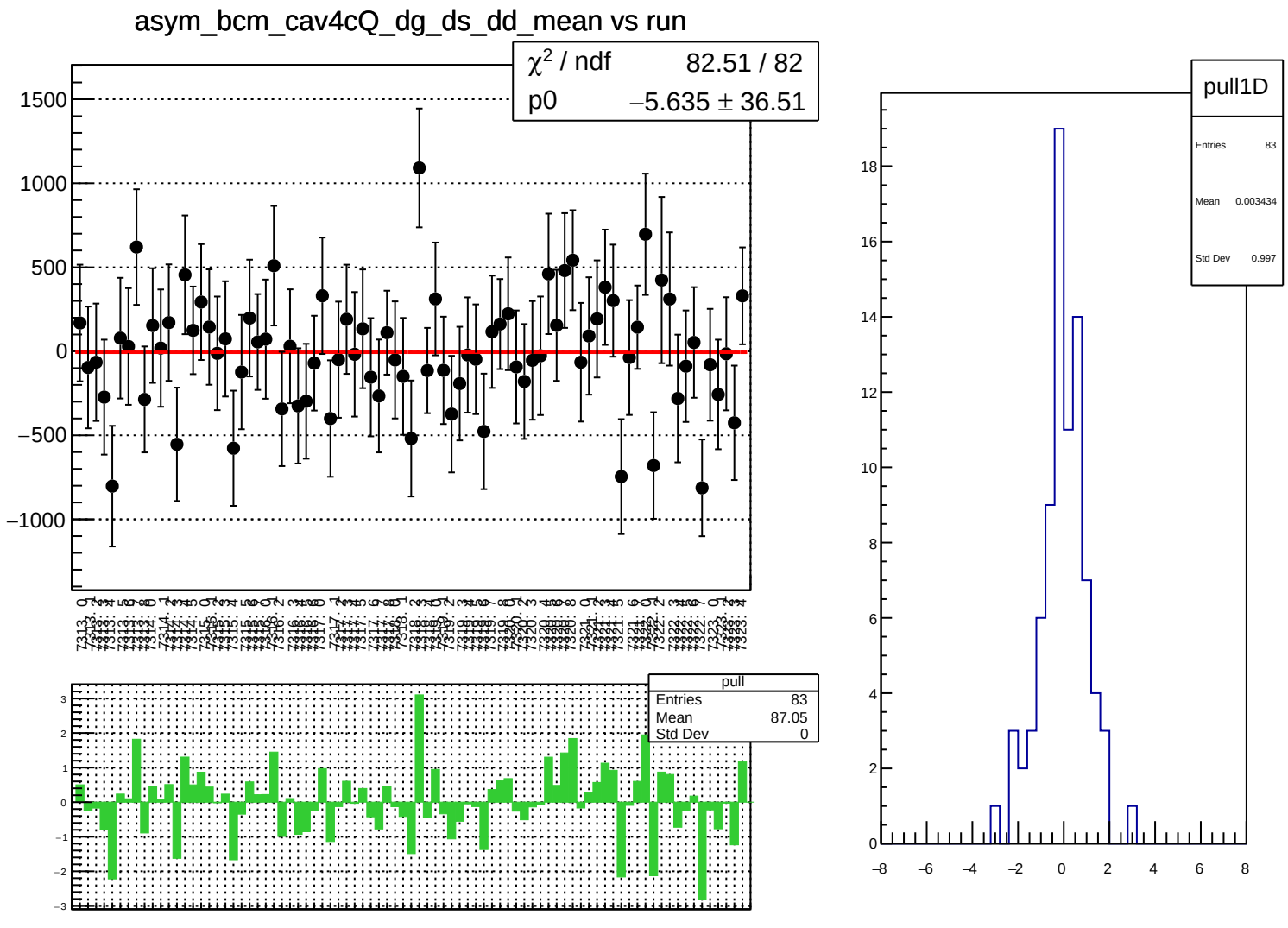

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 67.09 / 82
p0 17.89 ± 30.96
1000
500
0
−500
−1000
pull
Entries 83
Mean 165.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

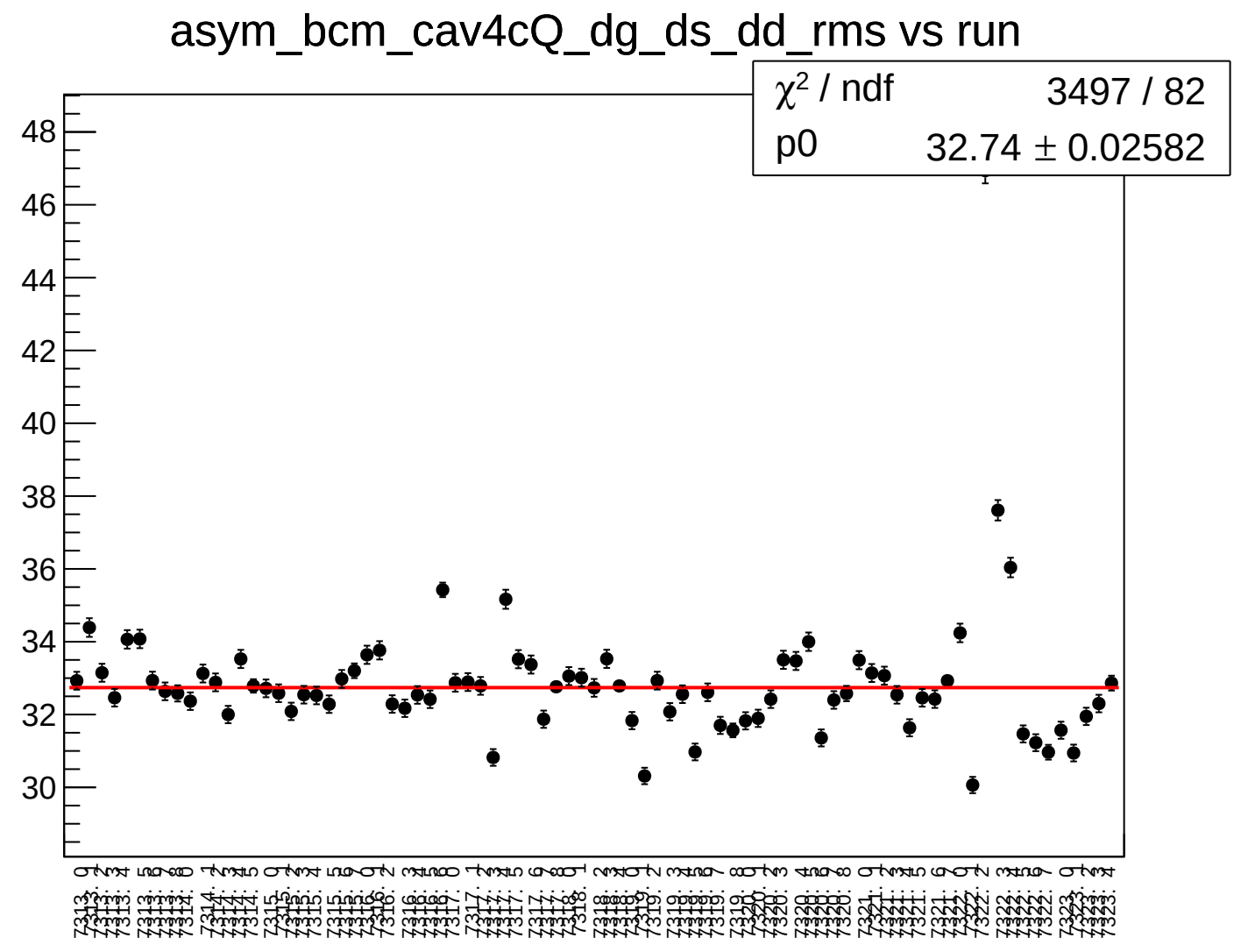

pull1D
Entries 83
Mean 0.001566
Std Dev 0.8991
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

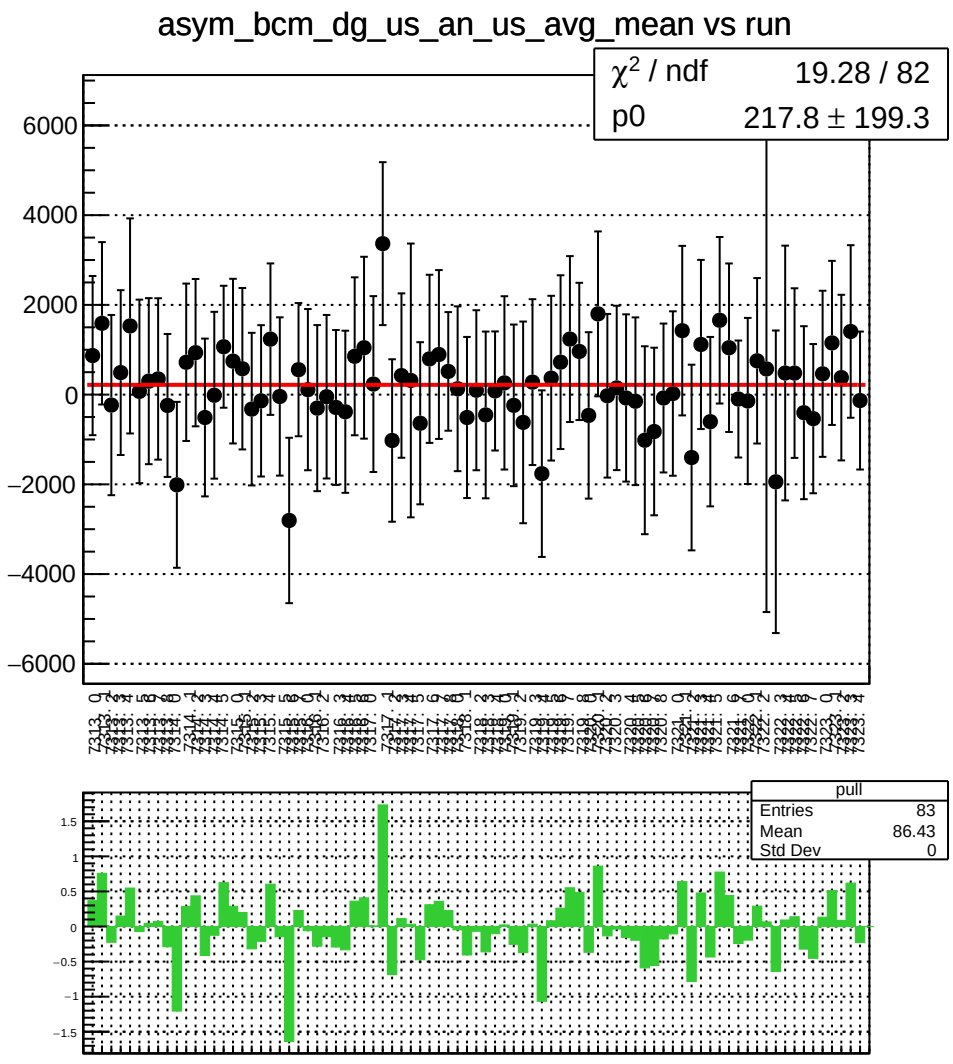

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 4920 / 82
p0 27.74 ± 0.02189
44
42
40
38
36
34
32
30
28
26

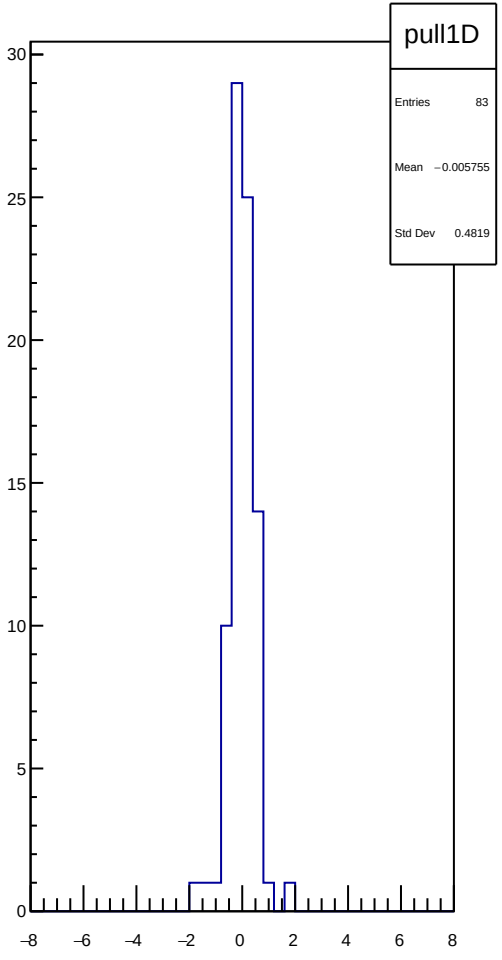

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 18.04 / 82
p0 244.7 ± 190
pull
Entries 83
Mean 121.8
Std Dev 0
pull1D
Entries 83
Mean −0.007274
Std Dev 0.4662

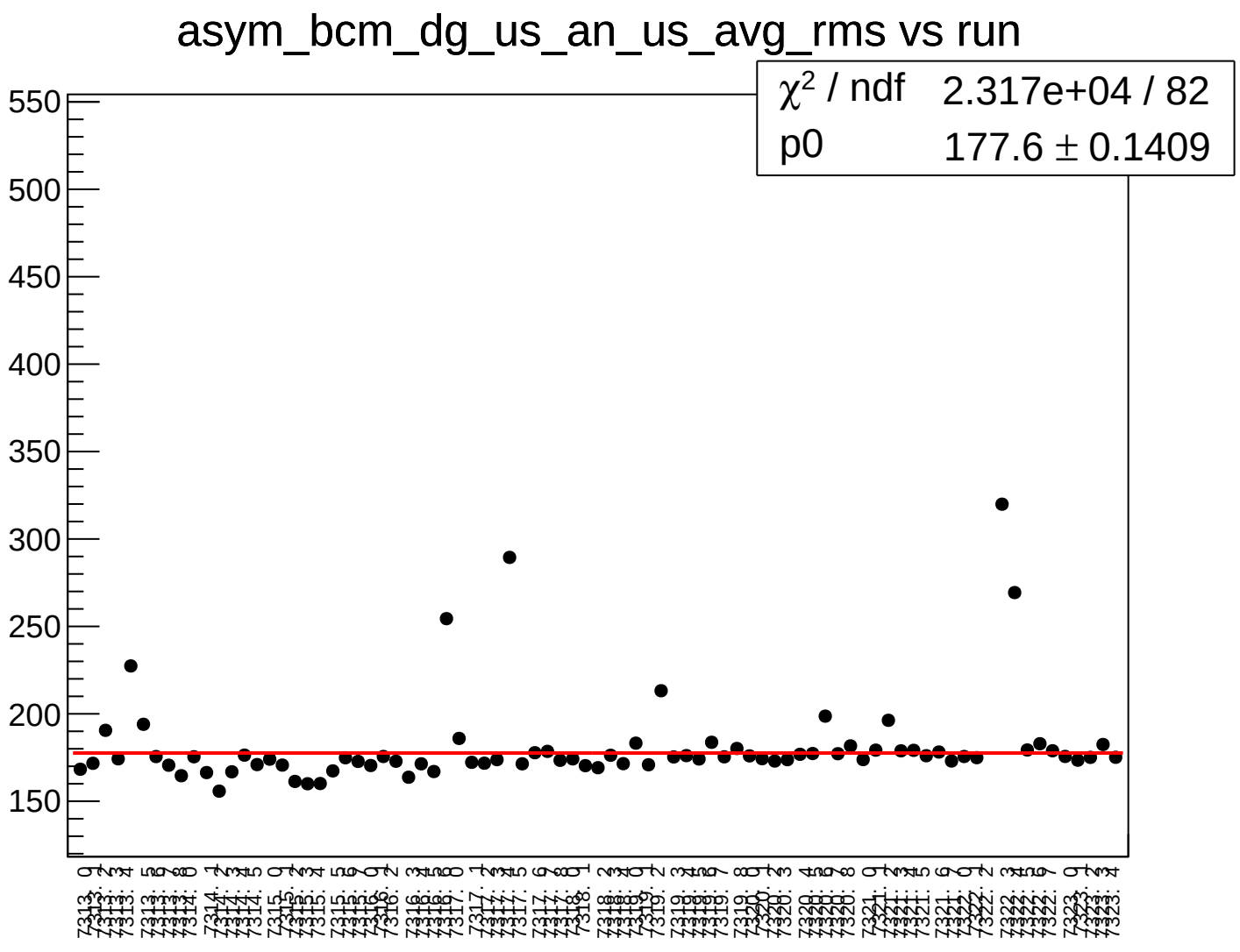

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.319e+04 / 82
p0 169.3 ± 0.1344
500
450
400
350
300
250
200
150

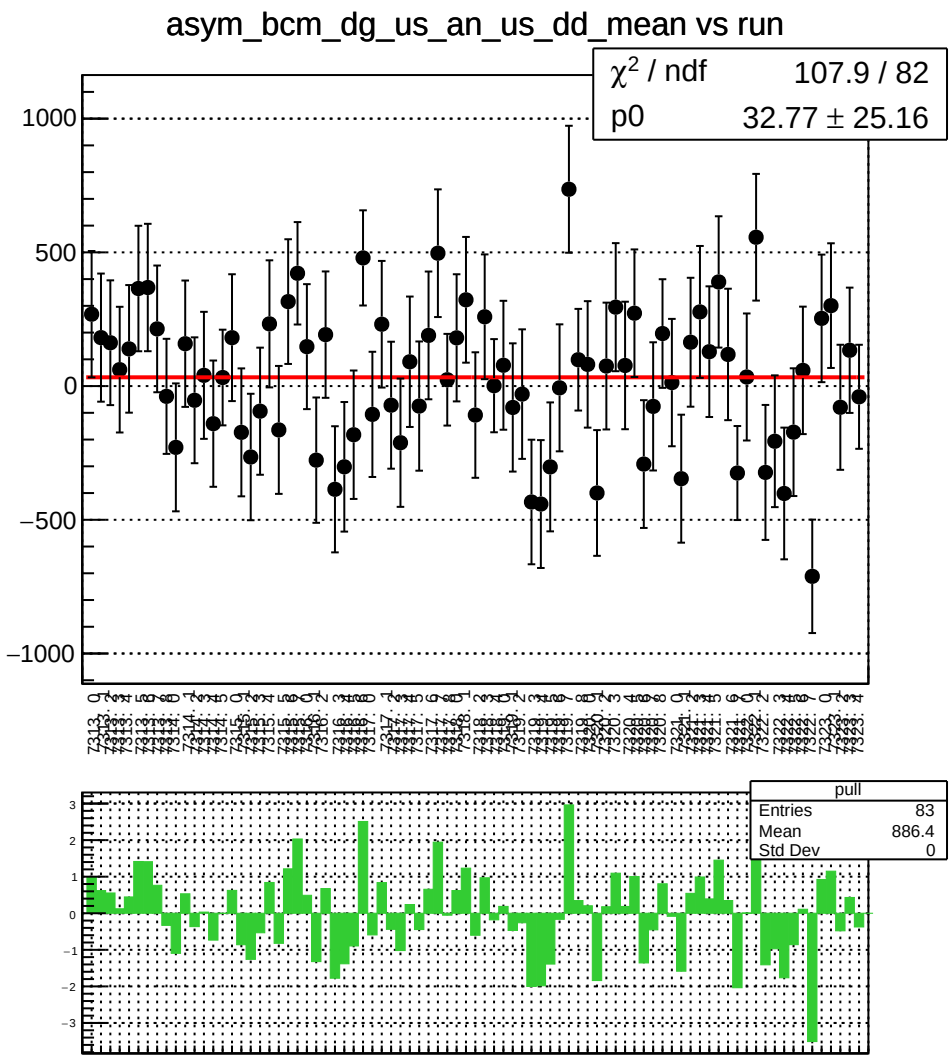

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 82.51 / 82
p0 −5.635 ± 36.51
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean 87.05
Std Dev 0
pull1D
Entries 83
Mean 0.003434
Std Dev 0.997

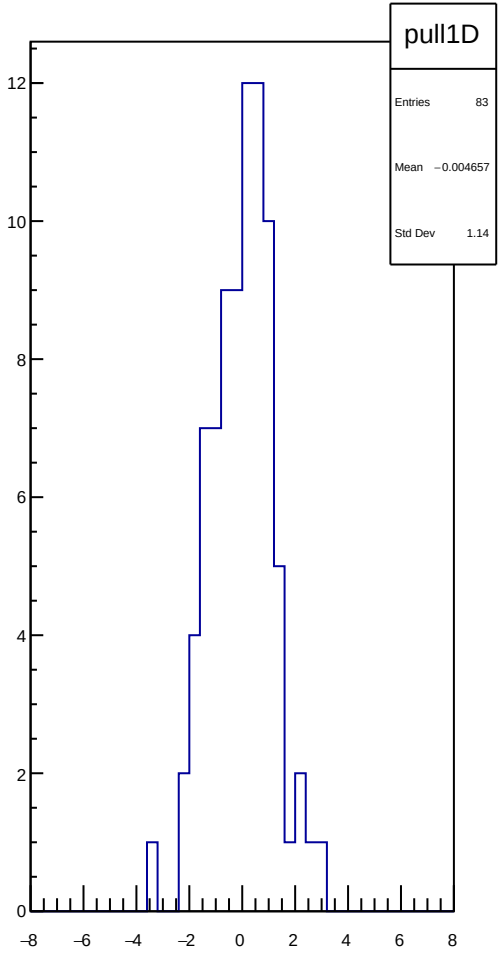

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3497 / 82
p0 32.74 ± 0.02582
48
46
44
42
40
38
36
34
32
30

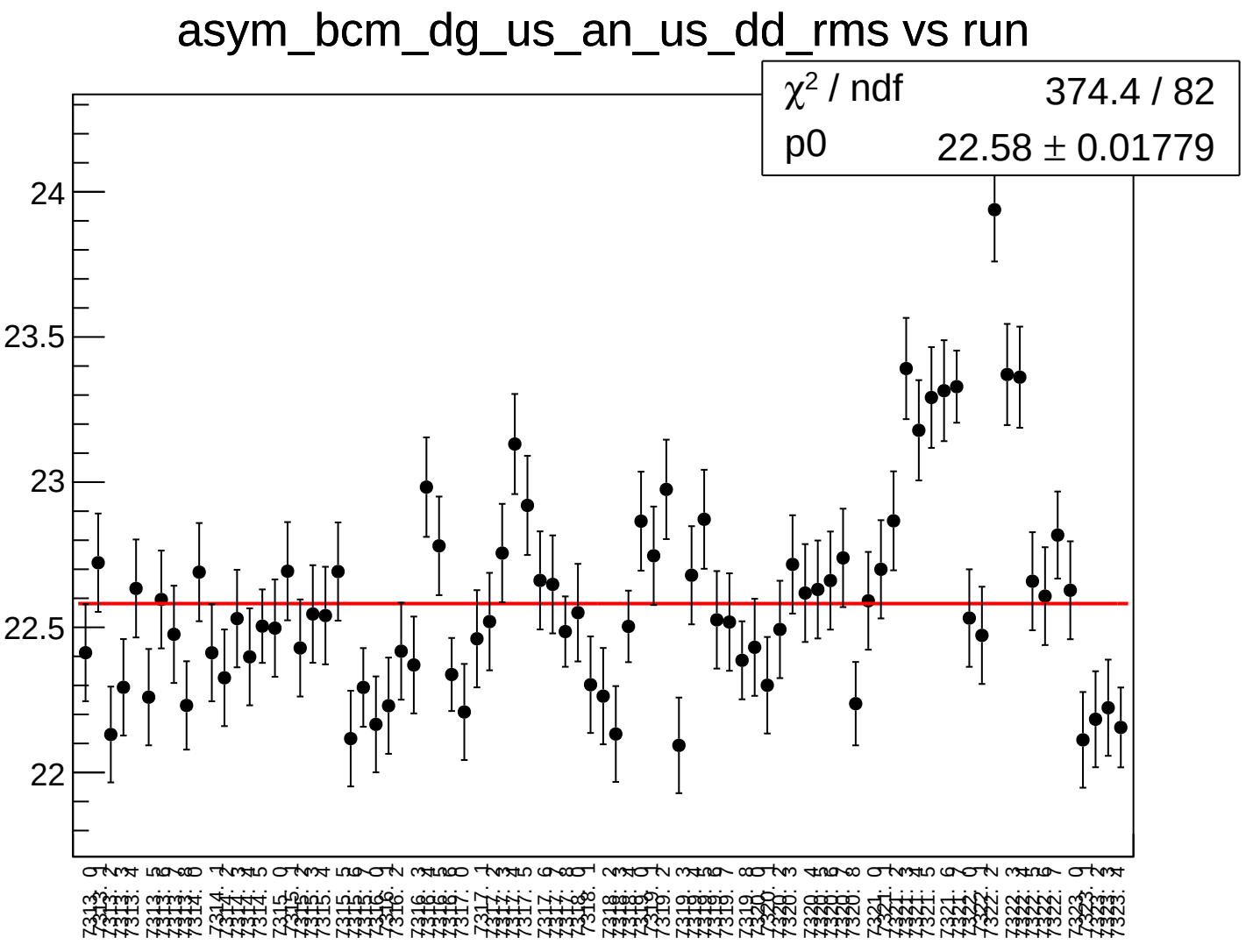

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 19.28 / 82
p0 217.8 ± 199.3
pull
Entries 83
Mean 86.43
Std Dev 0

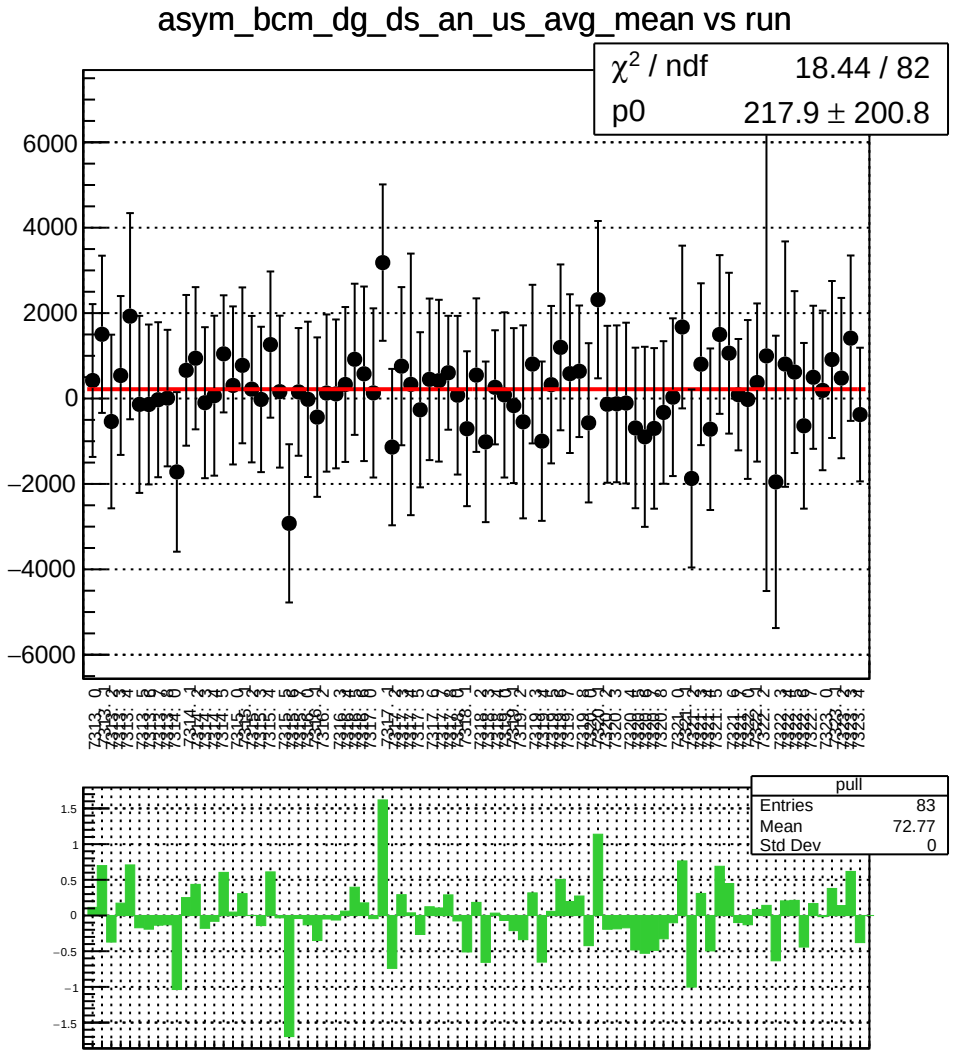

pull1D
Entries 83
Mean −0.005755
Std Dev 0.4819

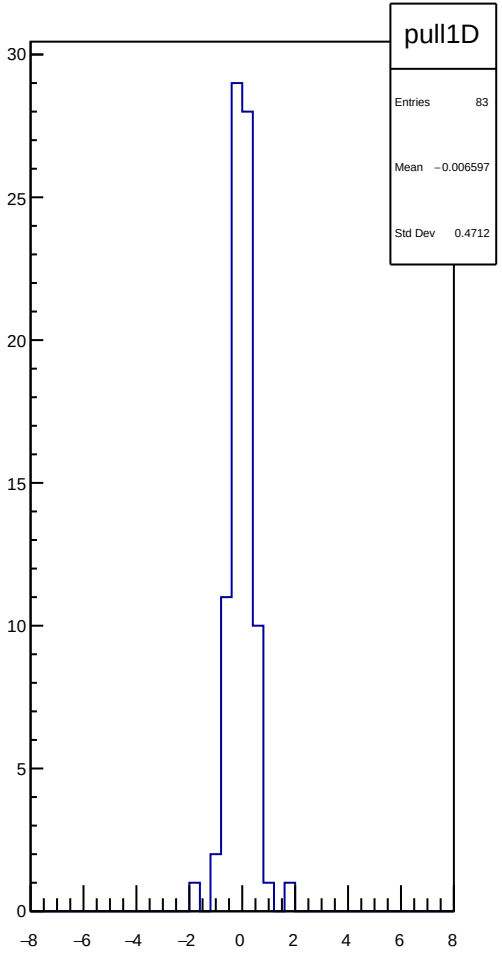

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2.317e+04 / 82
p0 177.6 ± 0.1409
550
500
450
400
350
300
250
200
150

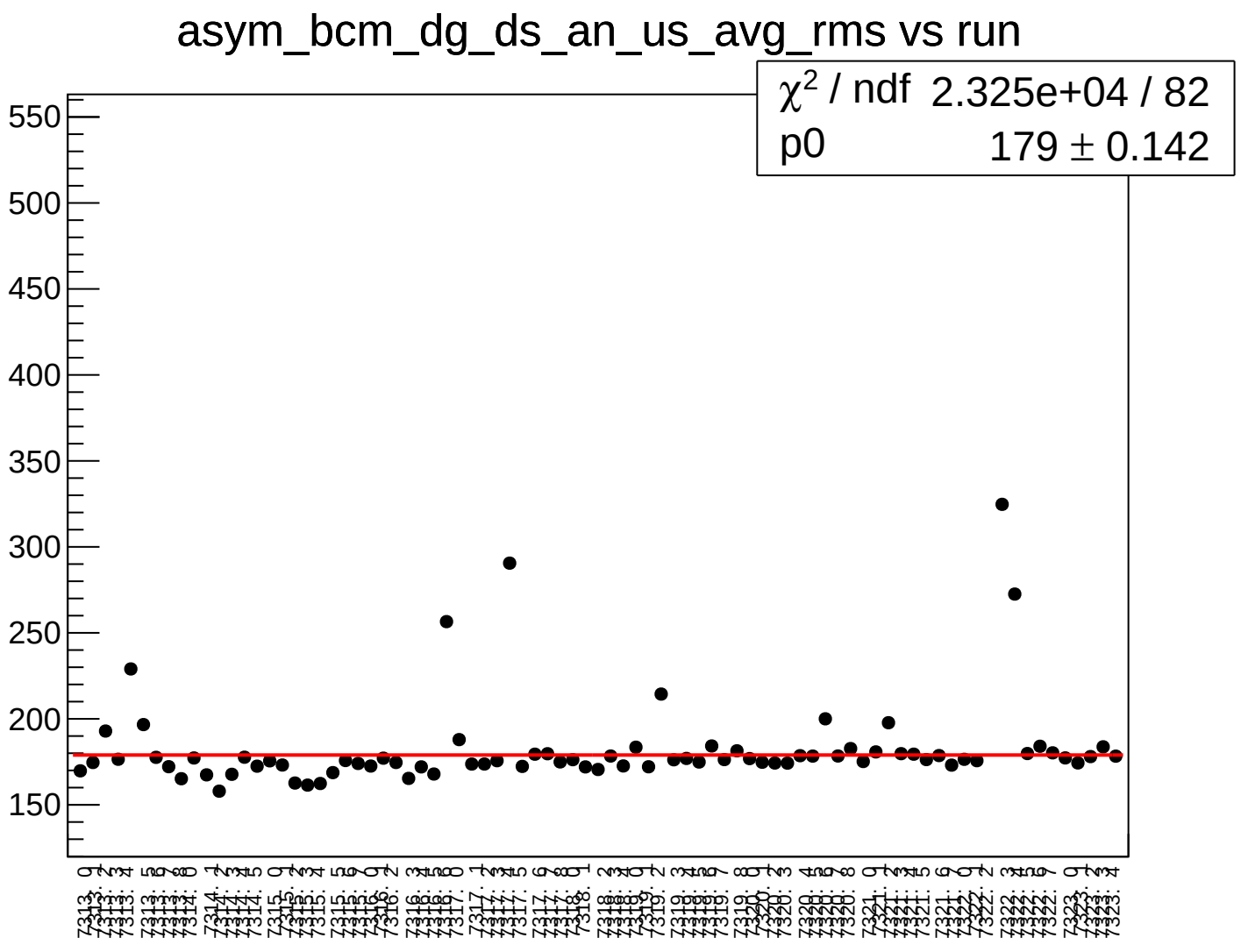

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 107.9 / 82
p0 32.77 ± 25.16
1000
500
0
−500
−1000
pull
Entries 83
Mean 886.4
Std Dev 0
3
2
1
0
−1
−2
−3

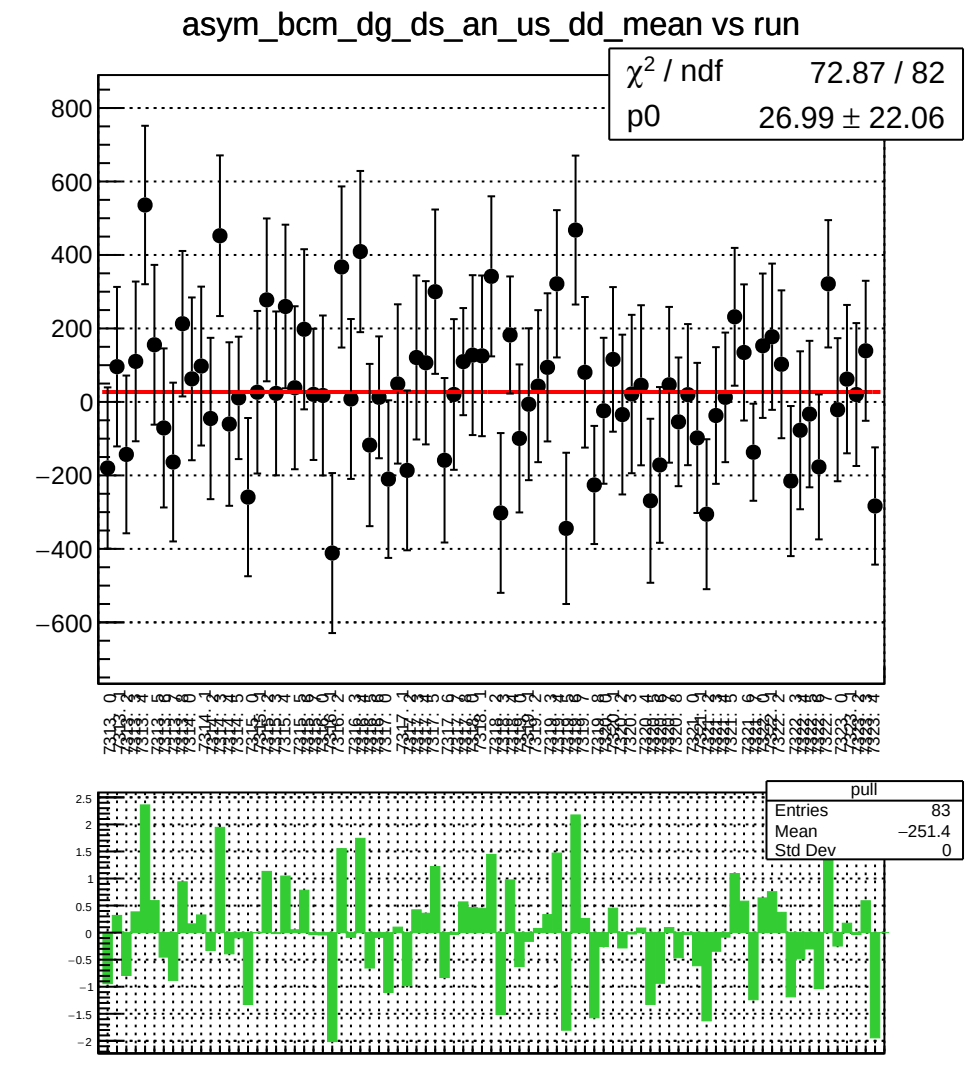

pull1D
Entries 83
Mean −0.004657
Std Dev 1.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

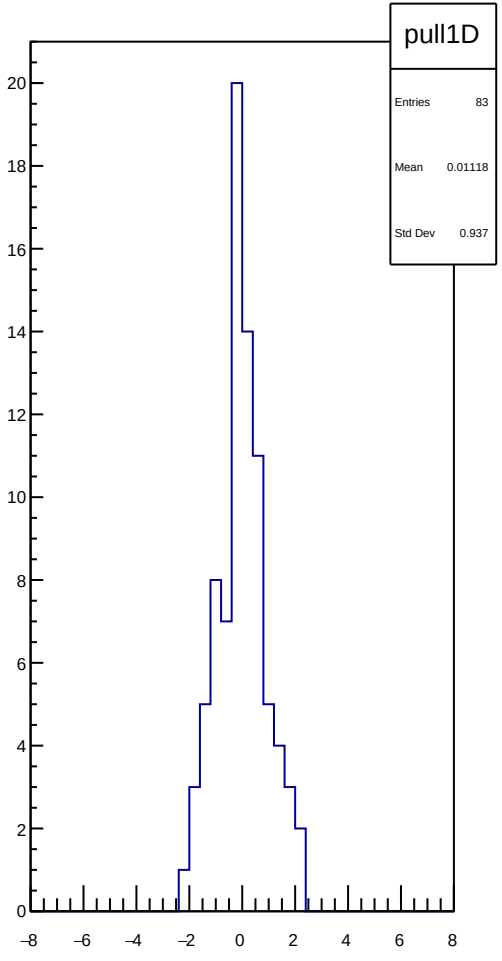

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 374.4 / 82
p0 22.58 ± 0.01779
24
23.5
23
22.5
22

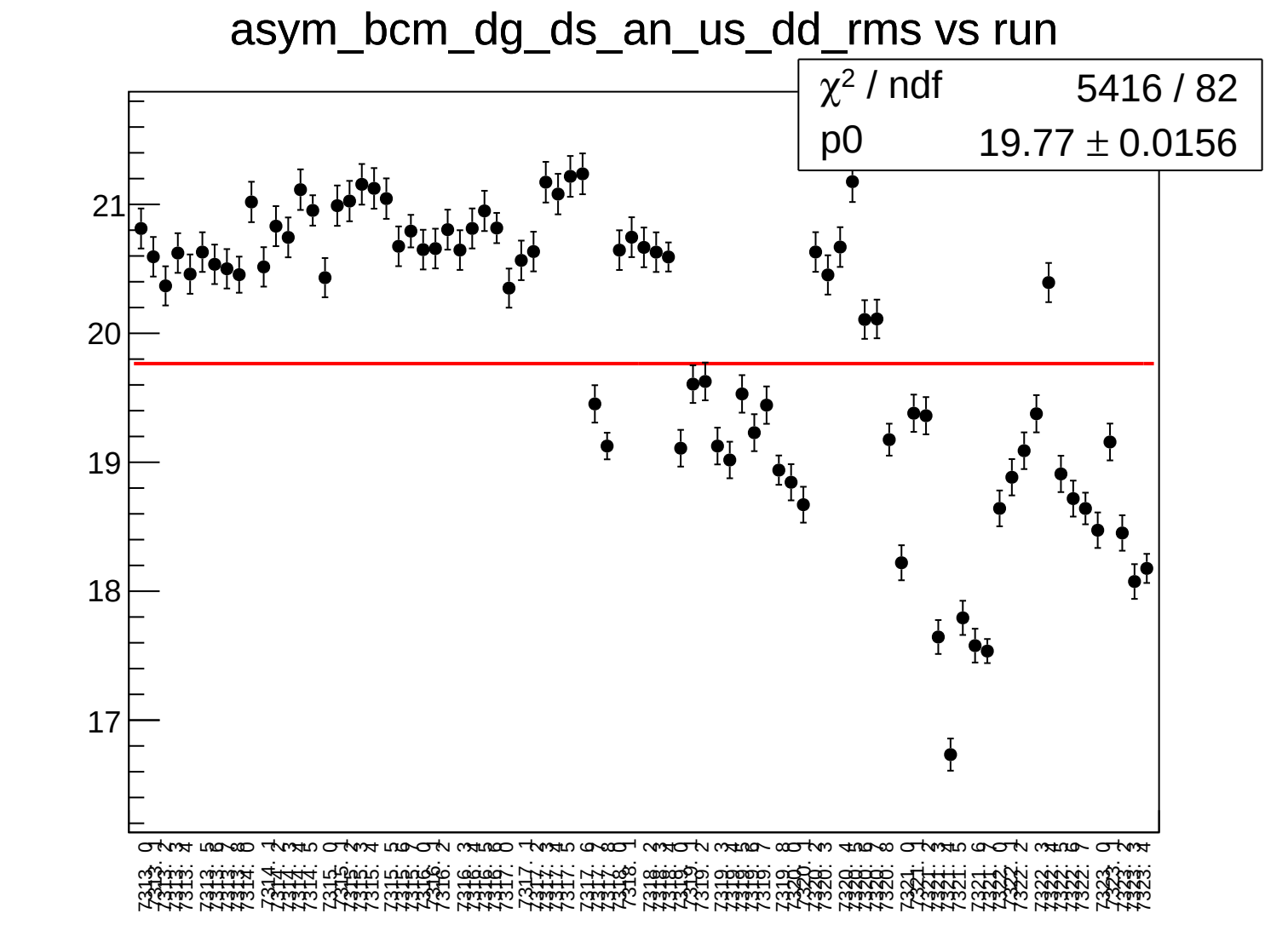

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 18.44 / 82
p0 217.9 ± 200.8
pull
Entries 83
Mean 72.77
Std Dev 0

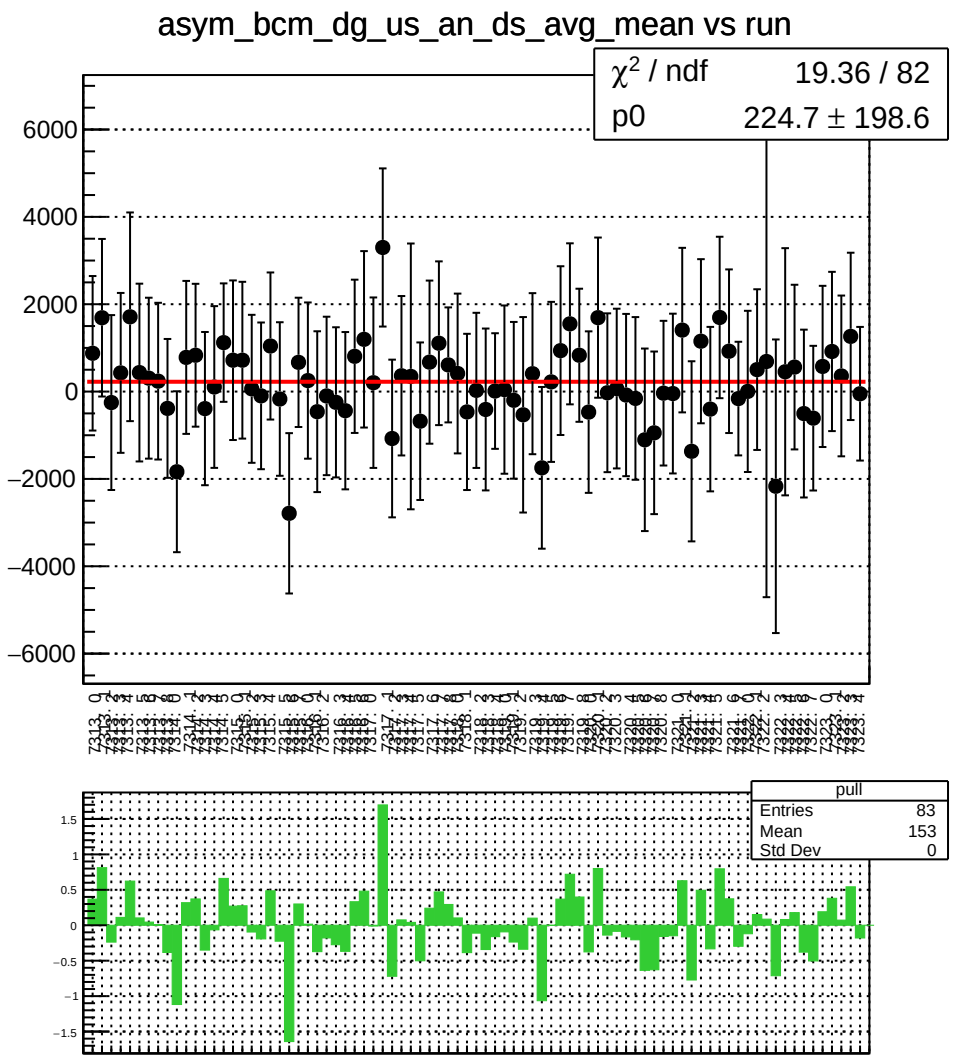

pull1D
Entries 83
Mean −0.006597
Std Dev 0.4712

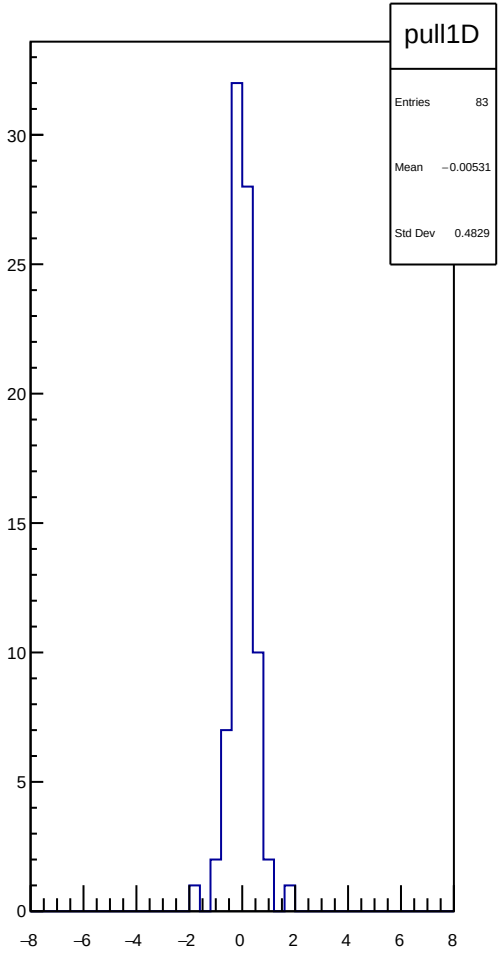

asym_bcm_dg_ds_an_us_avg_rms vs run
χ^2 / ndf 2.325e+04 / 82
p0 179 ± 0.142
550
500
450
400
350
300
250
200
150

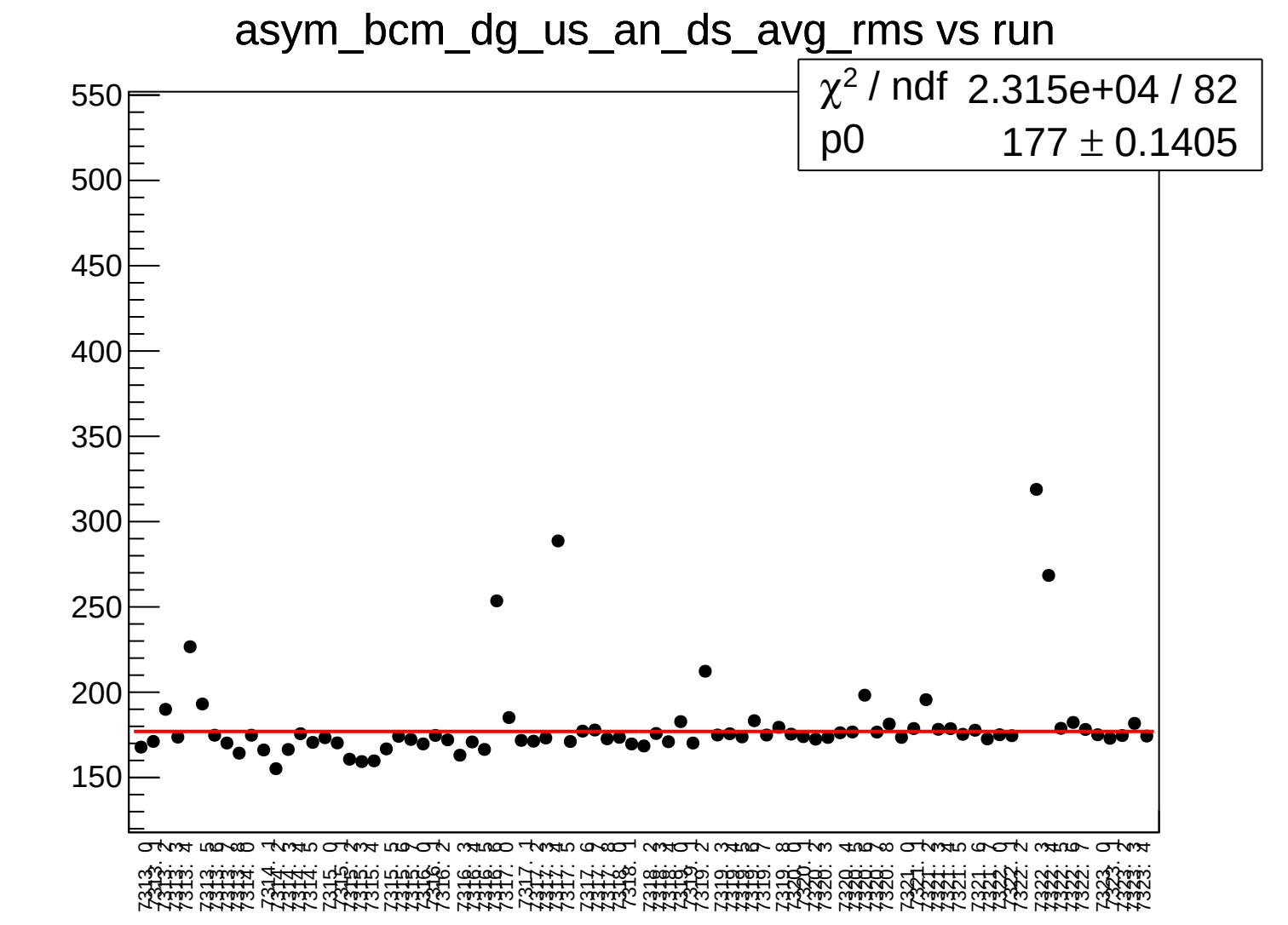

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 72.87 / 82
p0 26.99 ± 22.06
pull
Entries 83
Mean −251.4
Std Dev 0

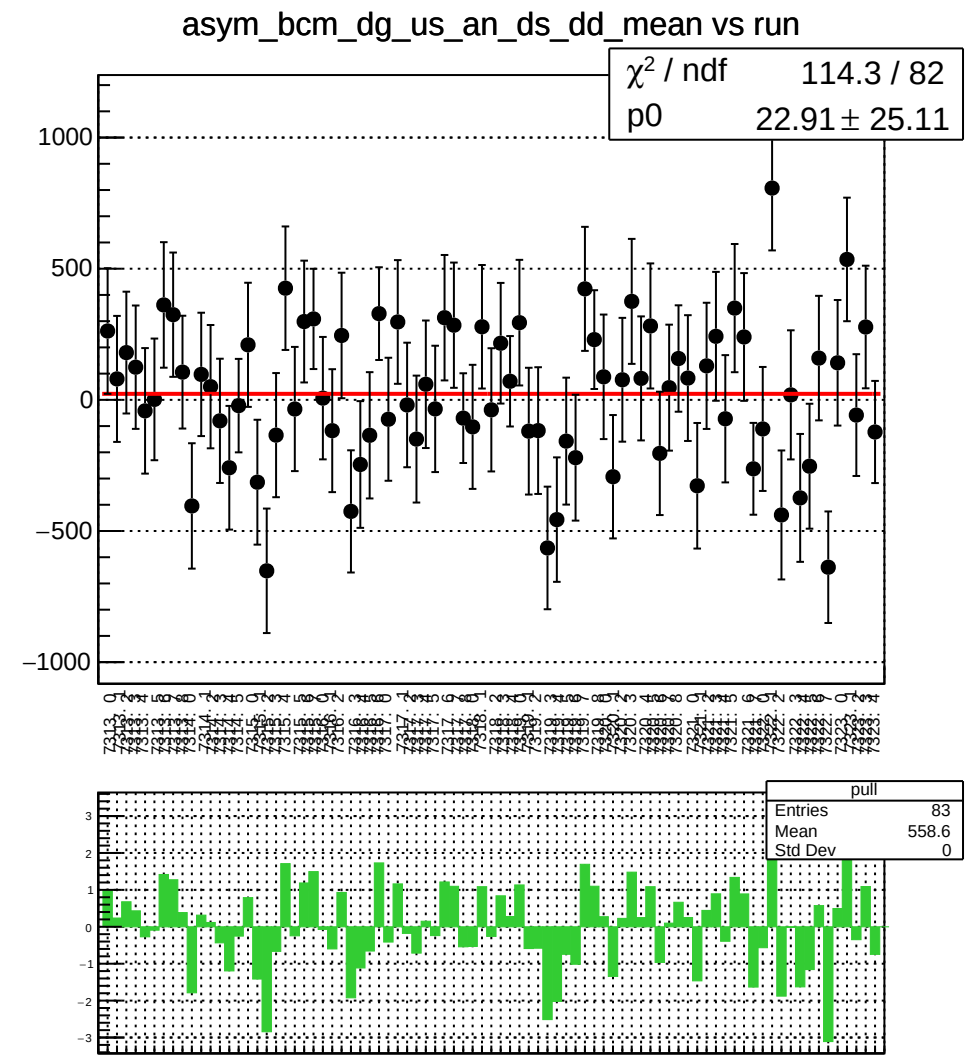

pull1D
Entries 83
Mean 0.01118
Std Dev 0.937

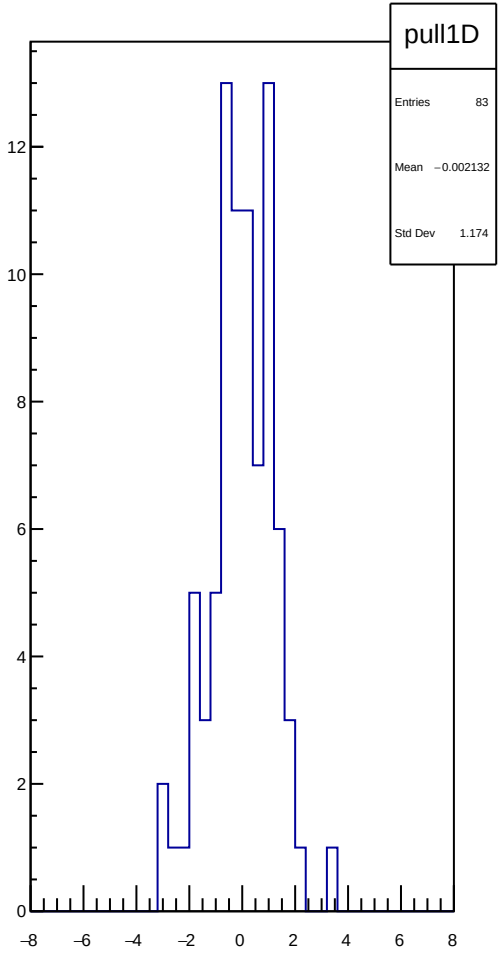

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 5416 / 82
p0 19.77 ± 0.0156
21
20
19
18
17

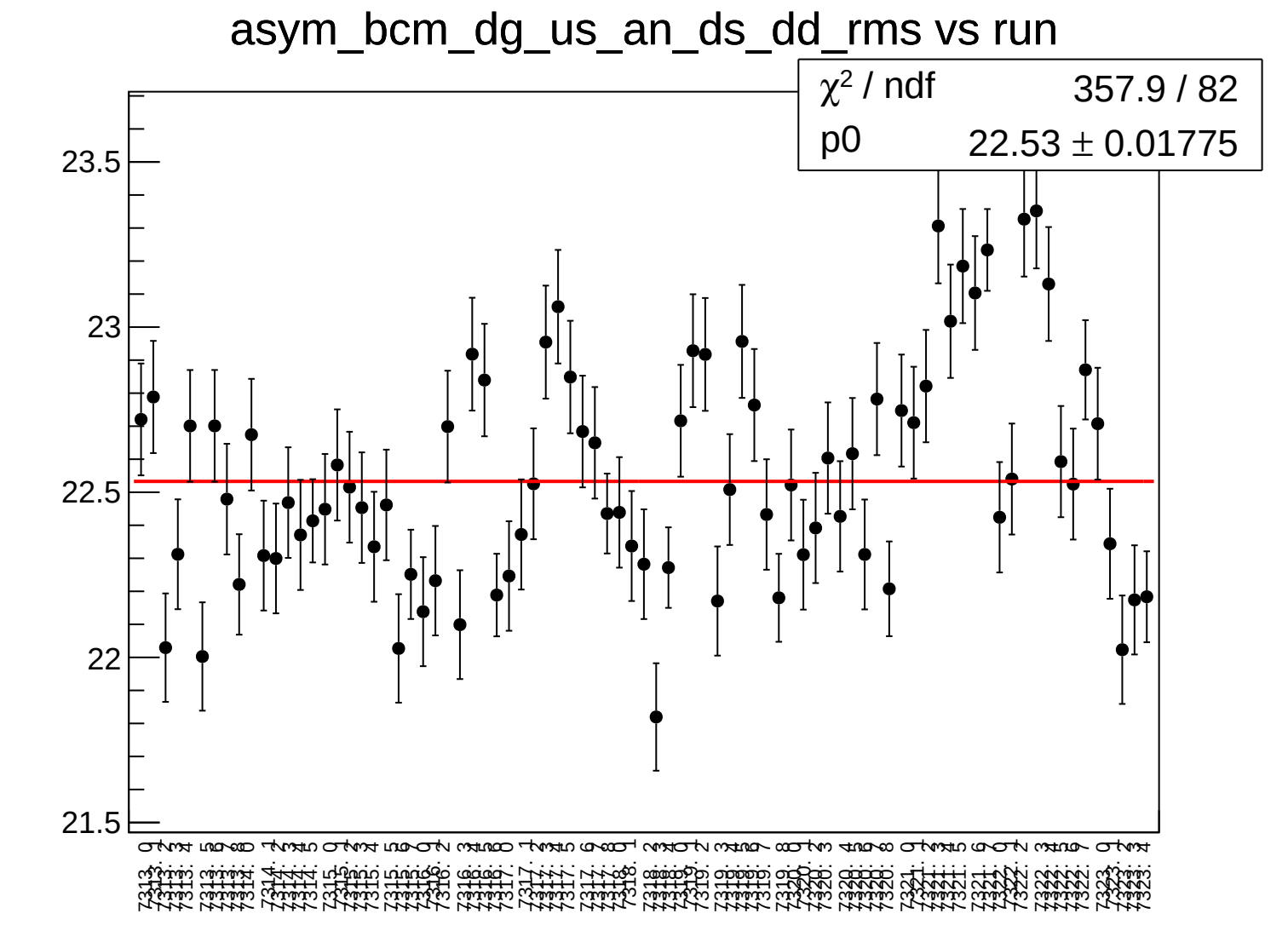

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 19.36 / 82
p0 224.7 ± 198.6
pull
Entries 83
Mean 153
Std Dev 0

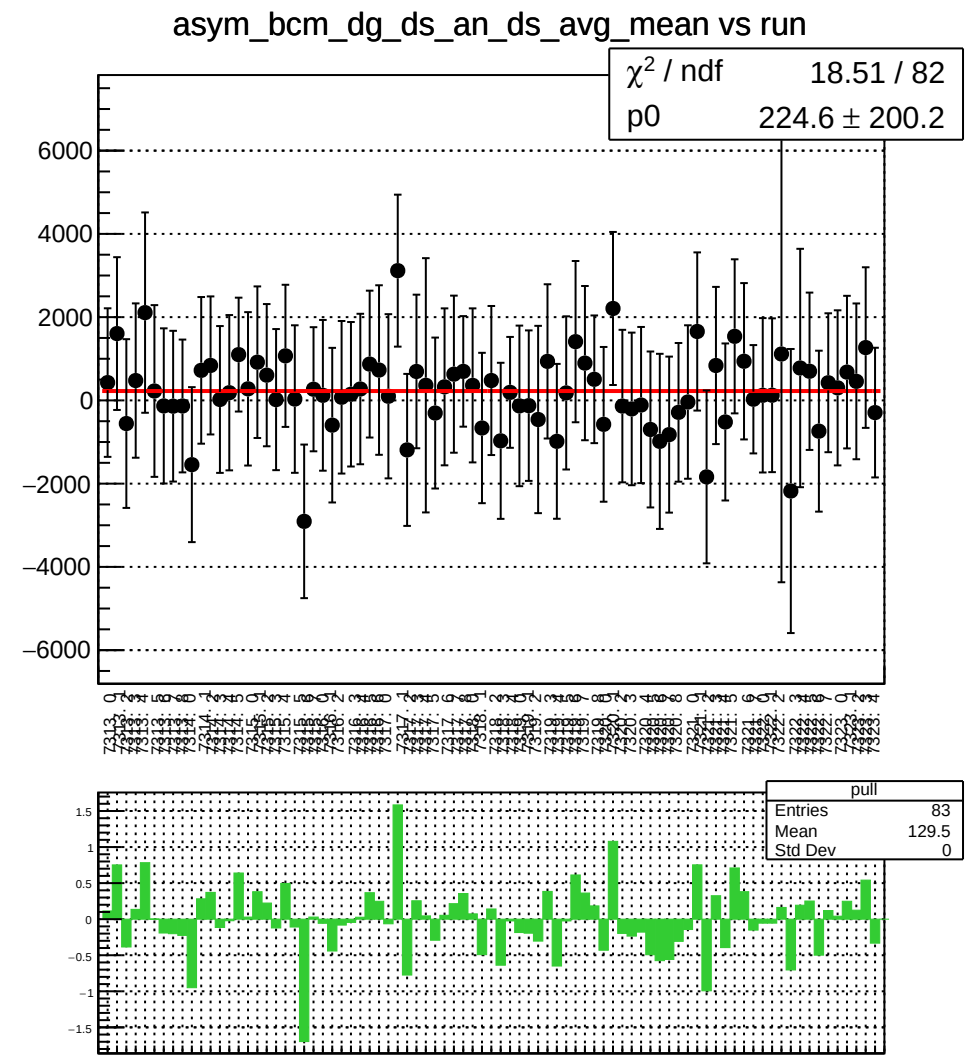

pull1D
Entries 83
Mean −0.00531
Std Dev 0.4829

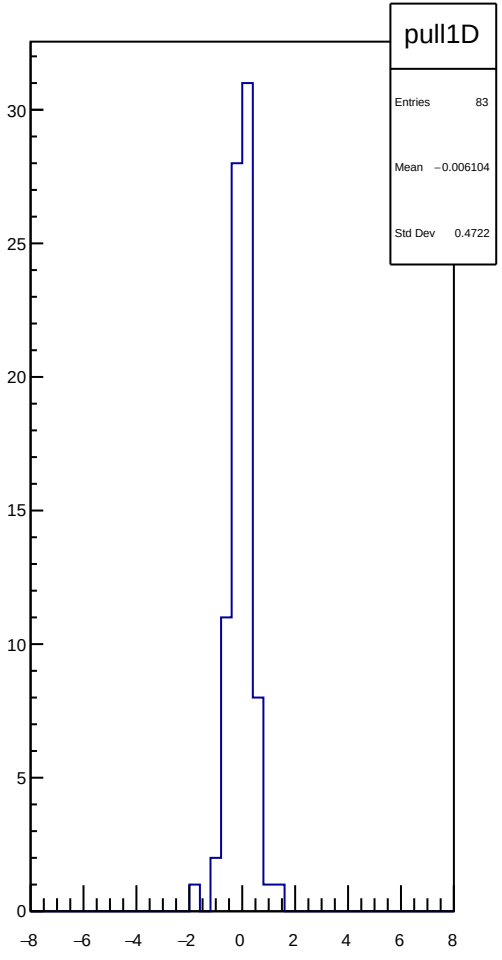

asym_bcm_dg_us_an_ds_avg_rms vs run
χ^2 / ndf 2.315e+04 / 82
p0 177 ± 0.1405
550
500
450
400
350
300
250
200
150

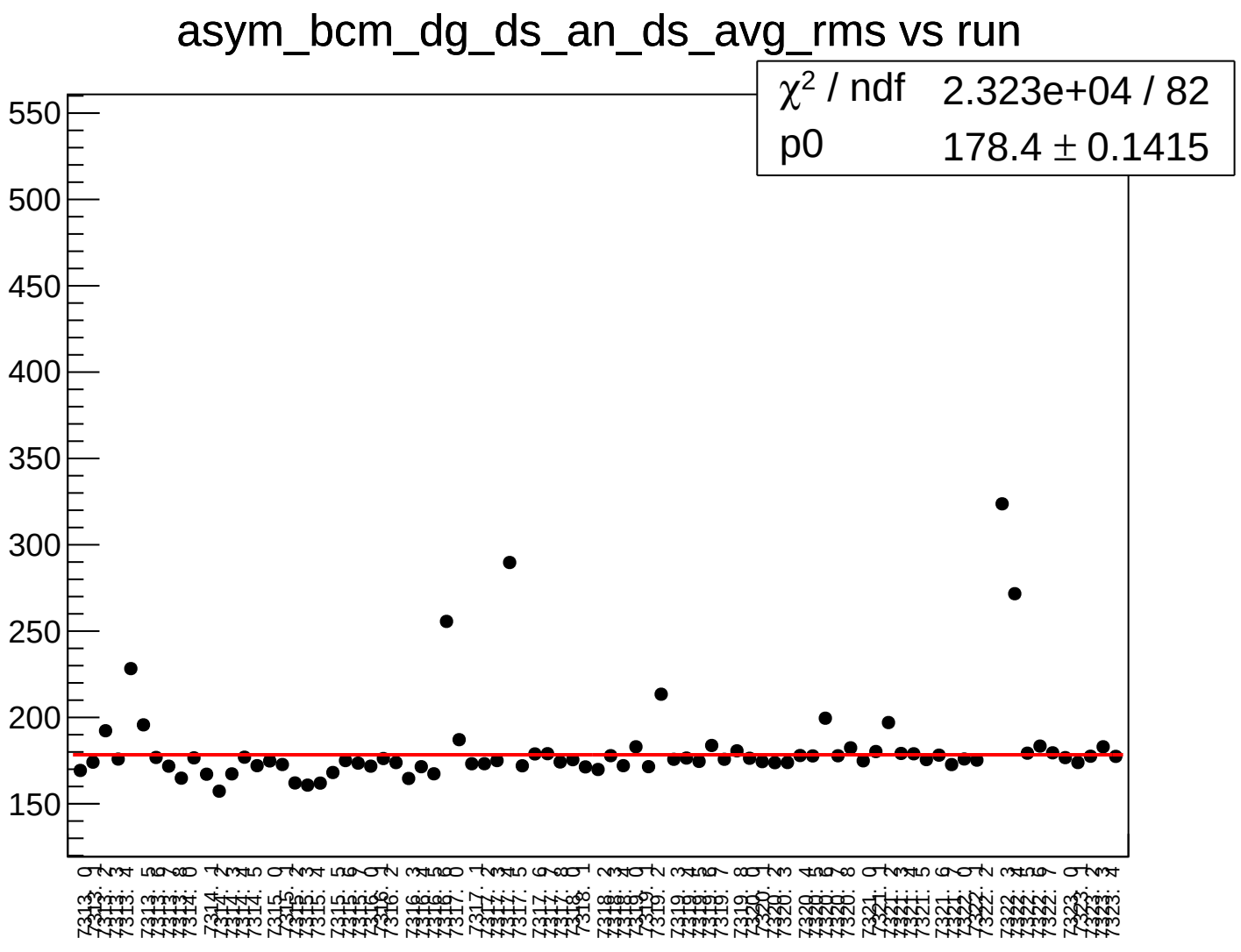

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 114.3 / 82
p0 22.91 ± 25.11
1000
500
0
−500
−1000
pull
Entries 83
Mean 558.6
Std Dev 0
3
2
1
0
−1
−2
−3

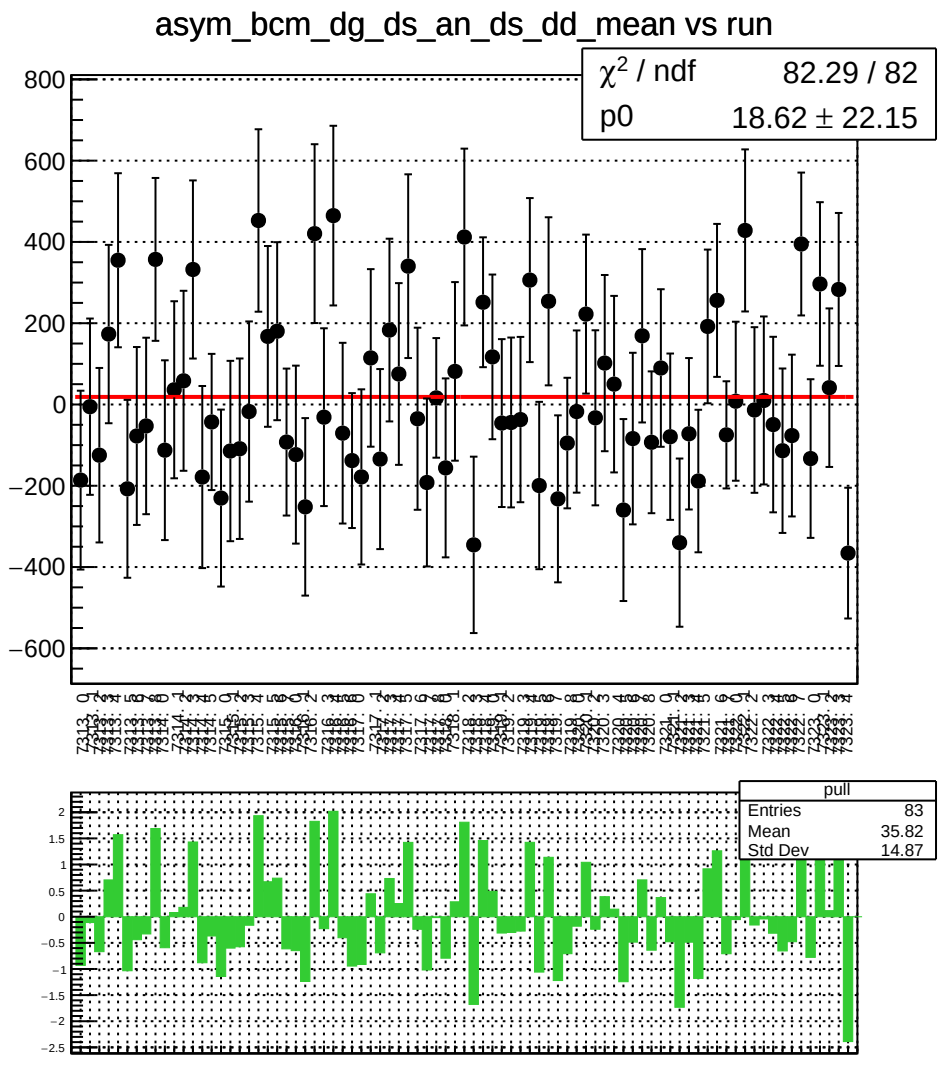

pull1D
Entries 83
Mean −0.002132
Std Dev 1.174
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

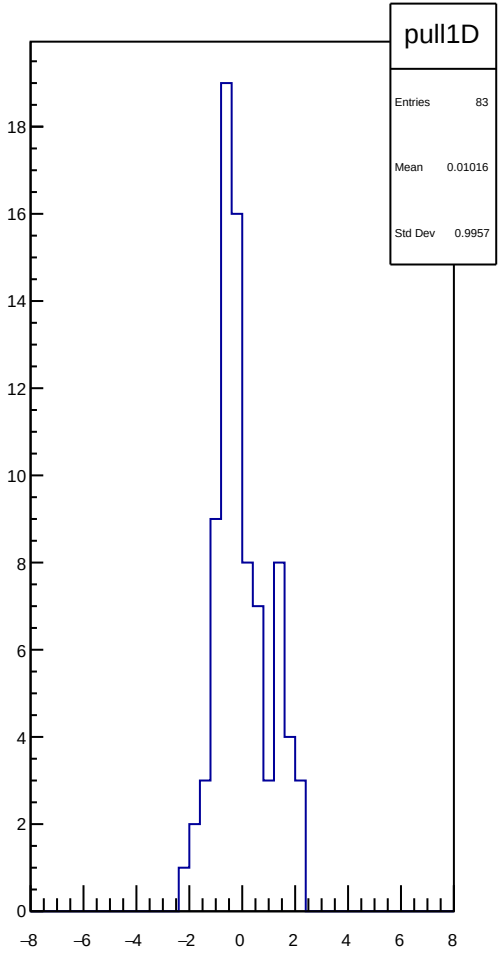

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 357.9 / 82
p0 22.53 ± 0.01775
23.5
23
22.5
22
21.5

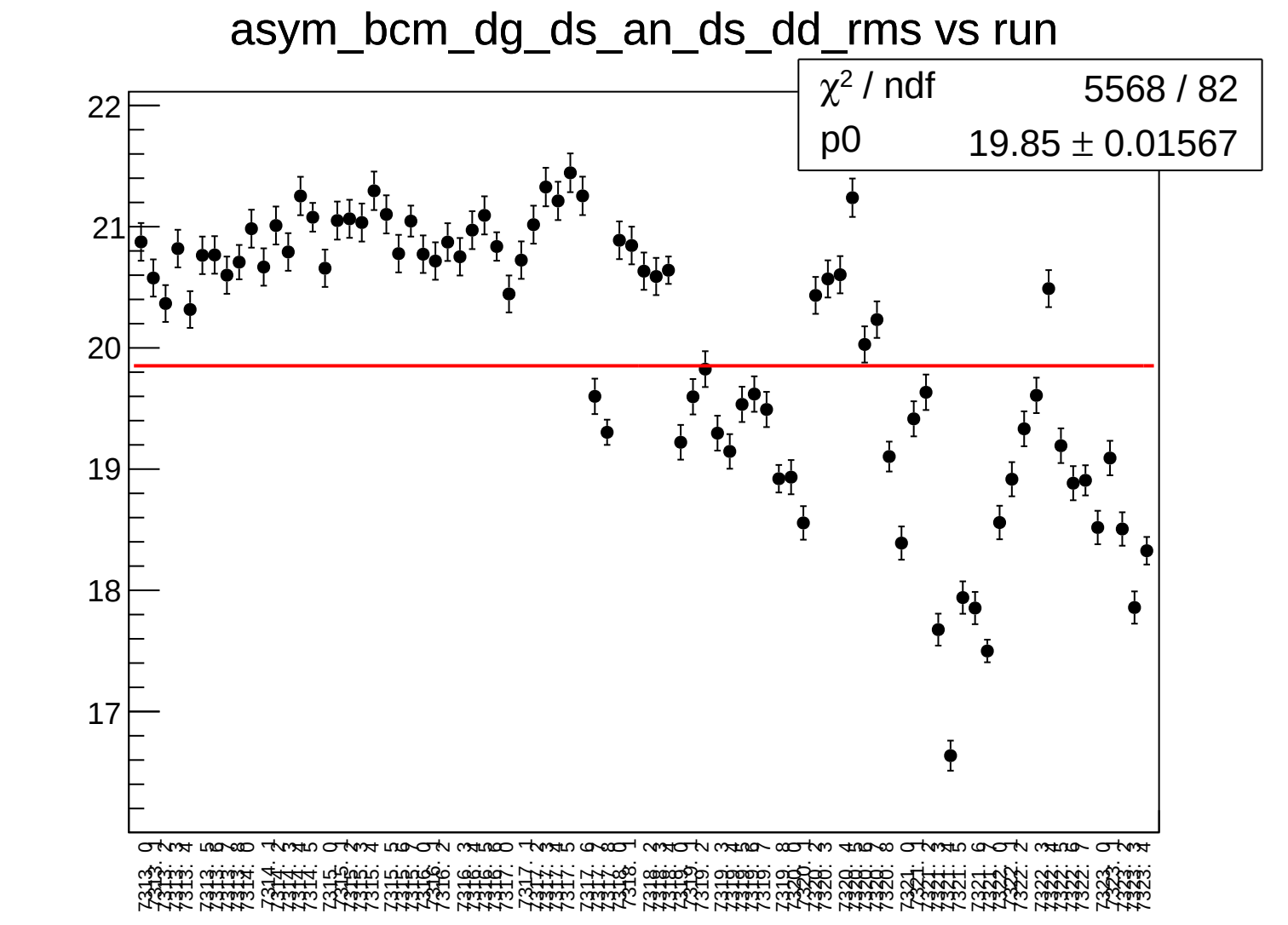

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 18.51 / 82
p0 224.6 ± 200.2
pull
Entries 83
Mean 129.5
Std Dev 0

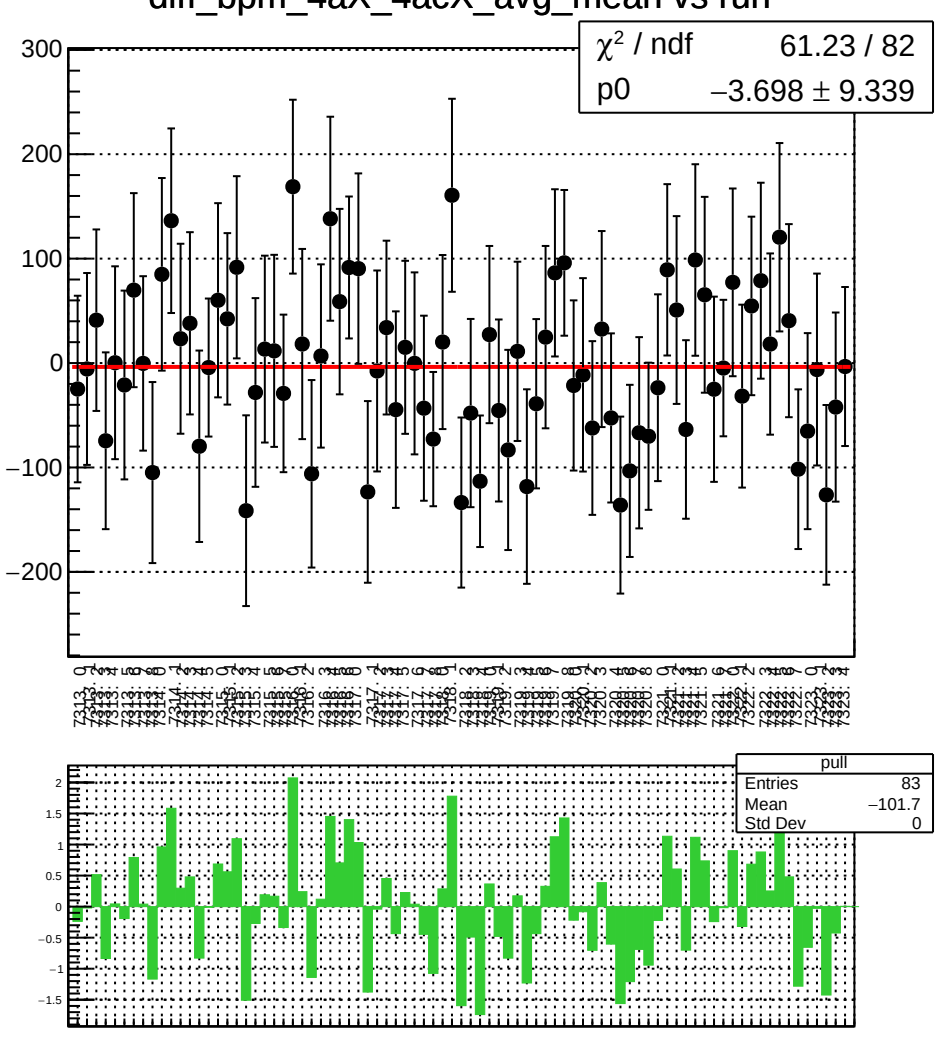

pull1D
Entries 83
Mean −0.006104
Std Dev 0.4722

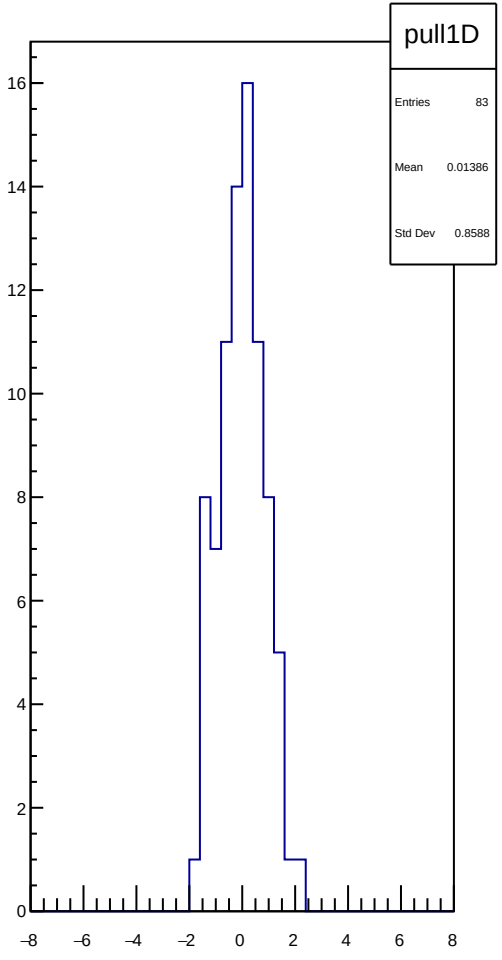

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ^2 / ndf 2.323e+04 / 82
p0 178.4 ± 0.1415
550
500
450
400
350
300
250
200
150

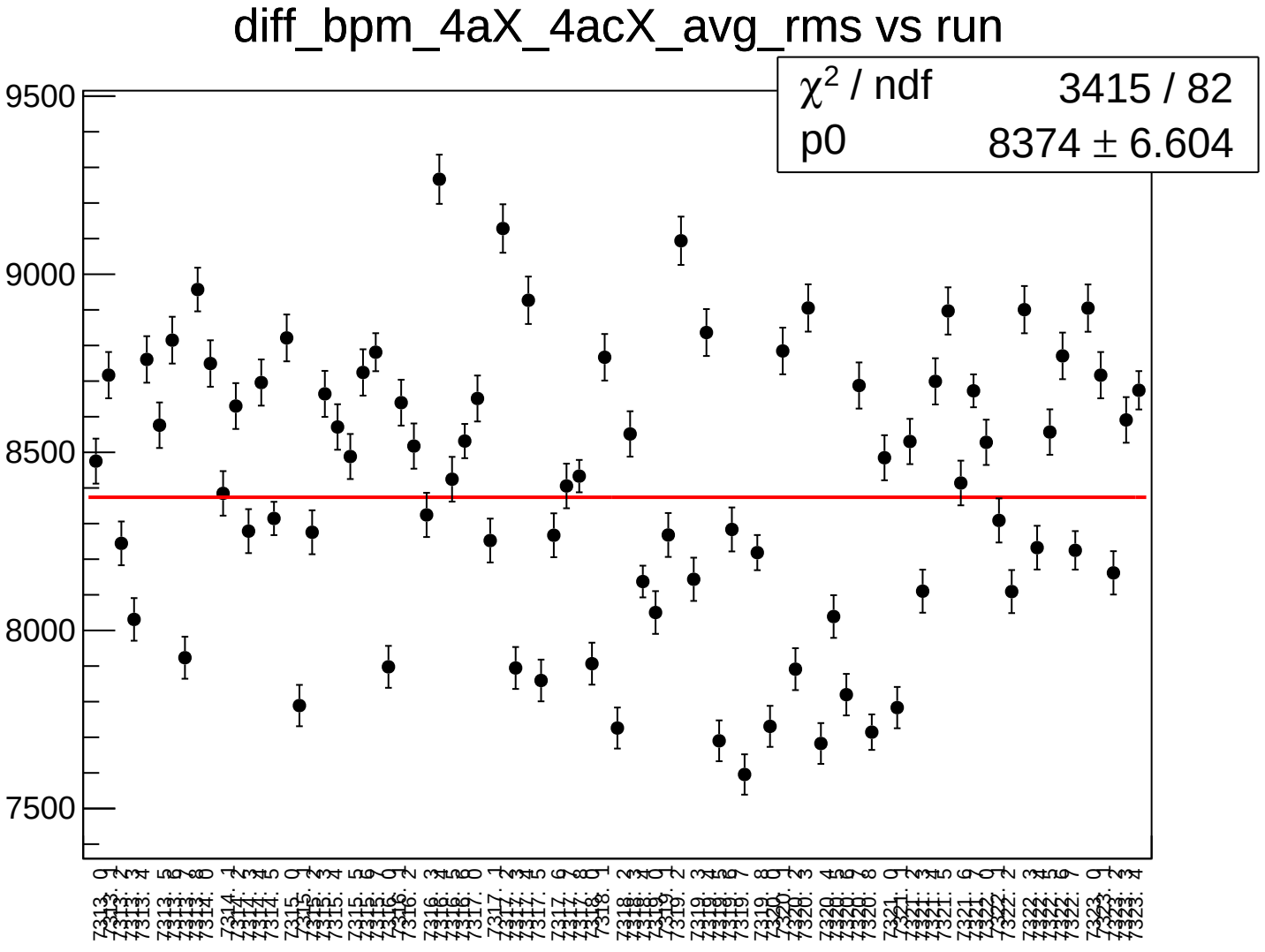

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 82.29 / 82
p0 18.62 ± 22.15
pull
Entries 83
Mean 35.82
Std Dev 14.87

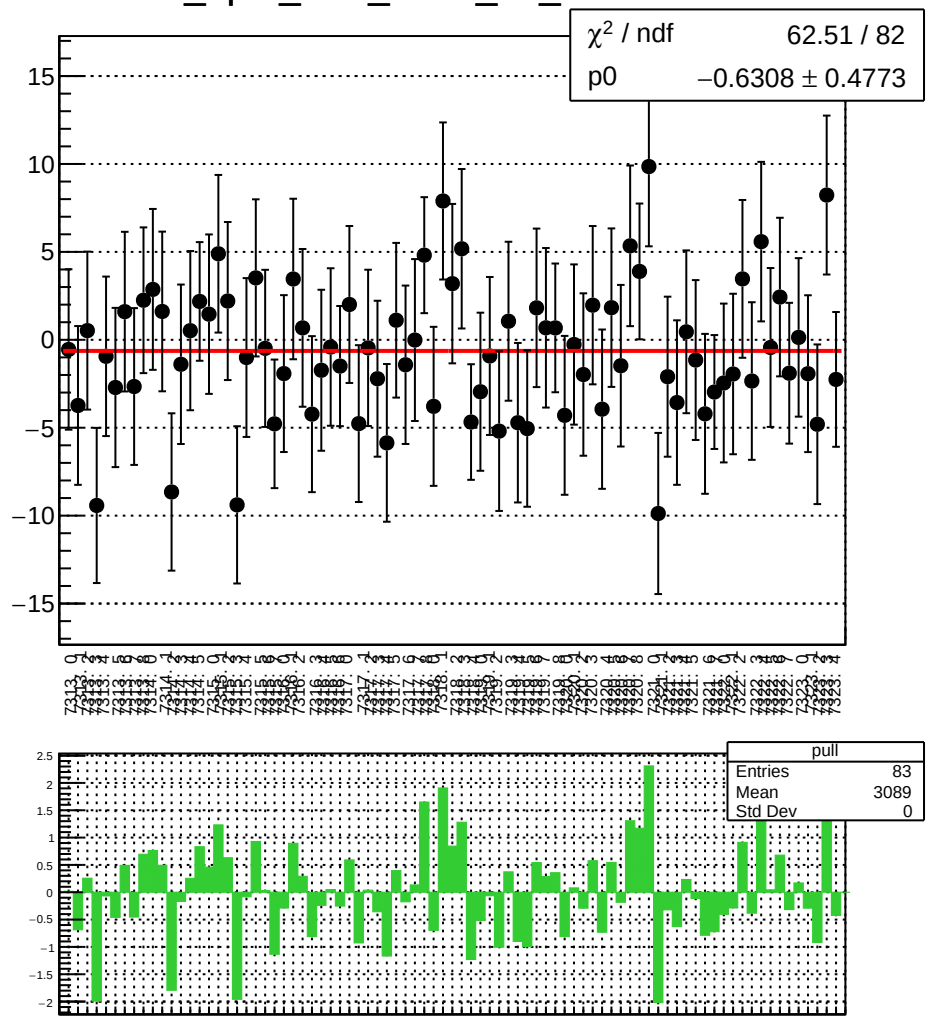

pull1D
Entries 83
Mean 0.01016
Std Dev 0.9957

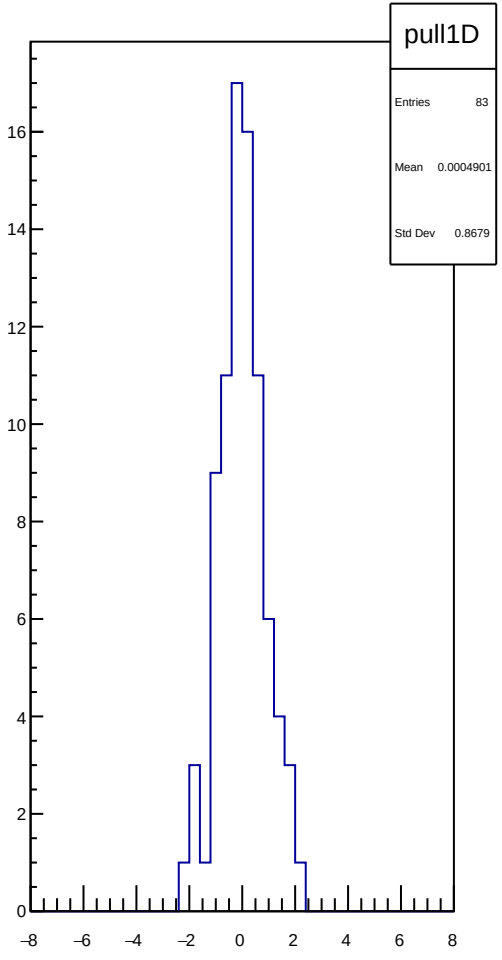

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 5568 / 82
p0 19.85 ± 0.01567
22
21
20
19
18
17

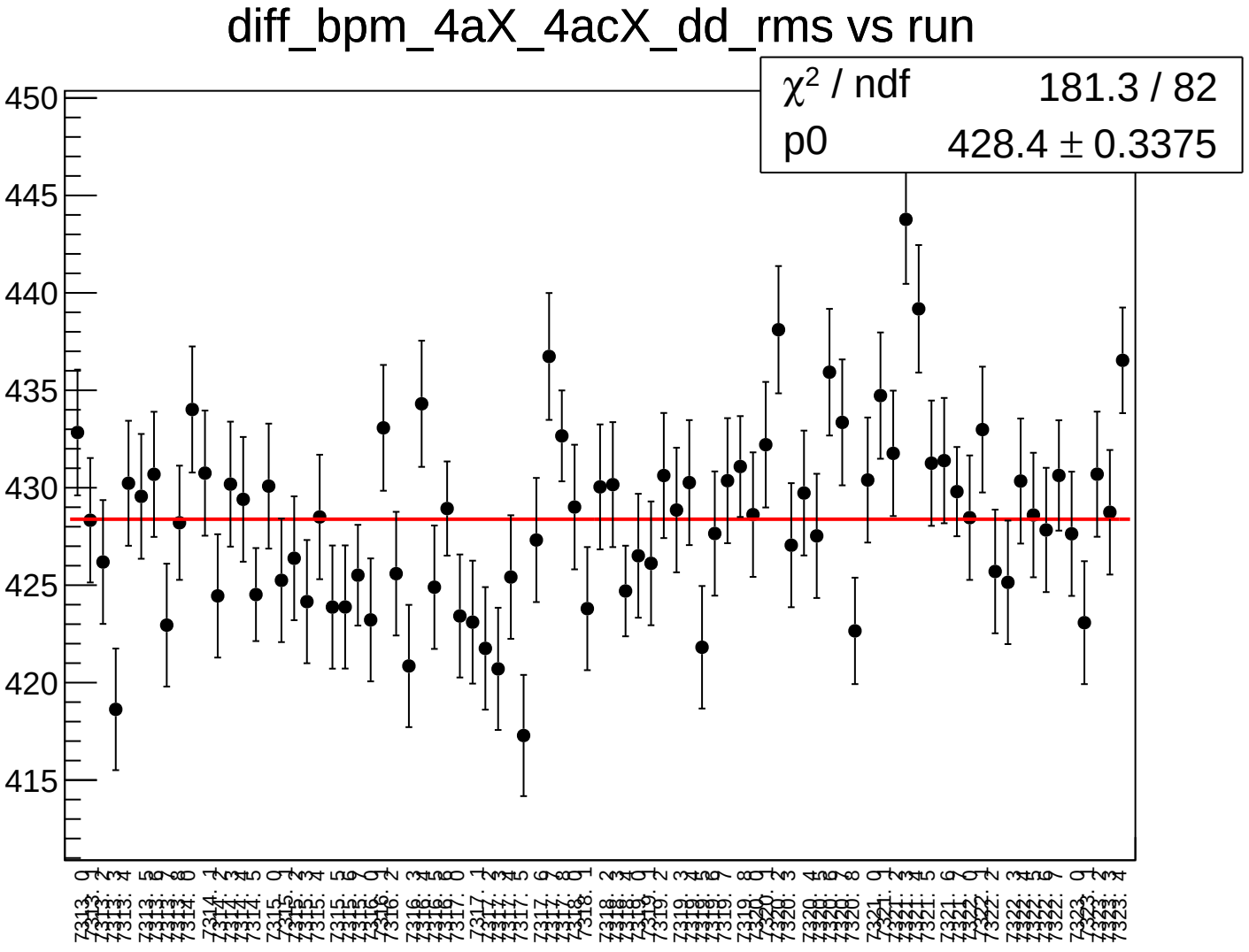

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 61.23 / 82
p0 −3.698 ± 9.339
pull
Entries 83
Mean −101.7
Std Dev 0

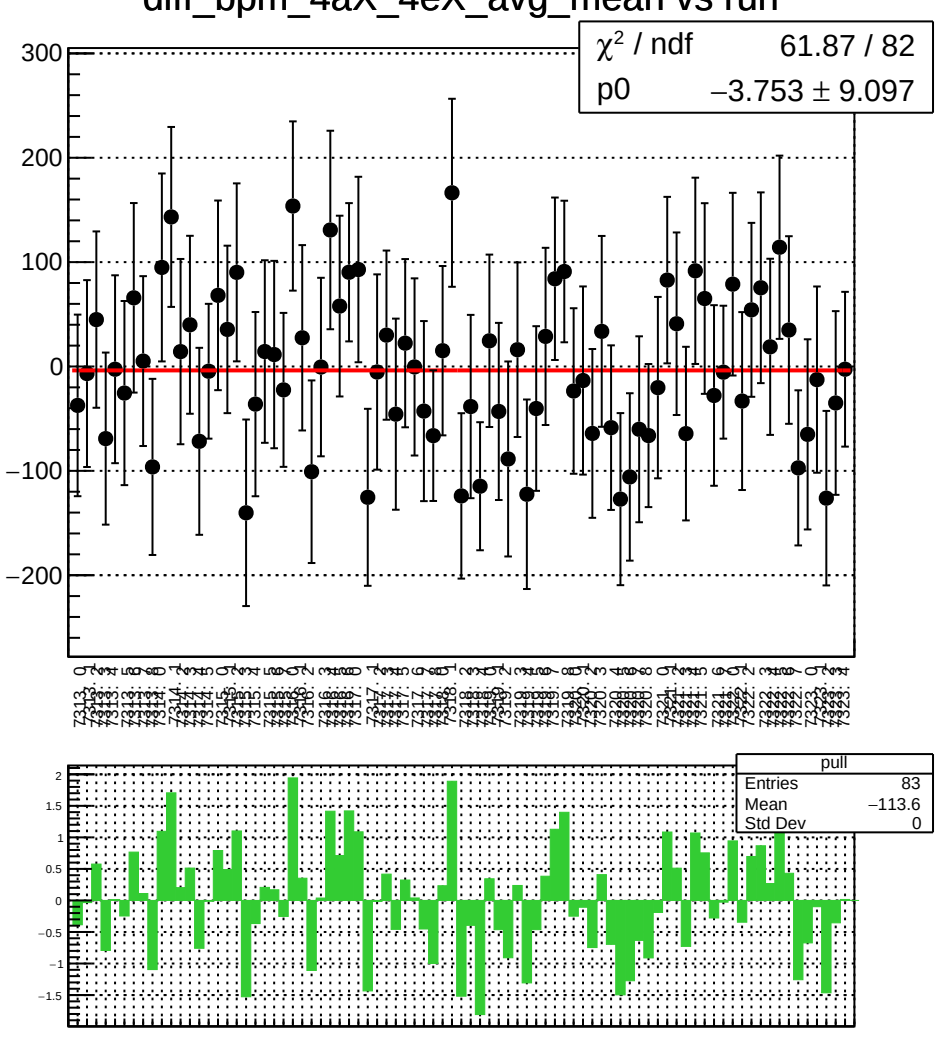

pull1D
Entries 83
Mean 0.01386
Std Dev 0.8588

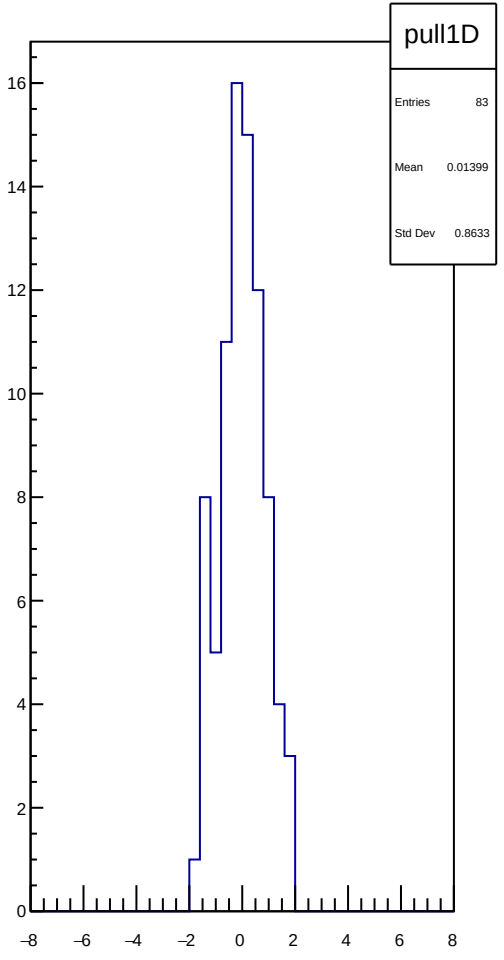

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3415 / 82
p0 8374 ± 6.604
9500
9000
8500
8000
7500

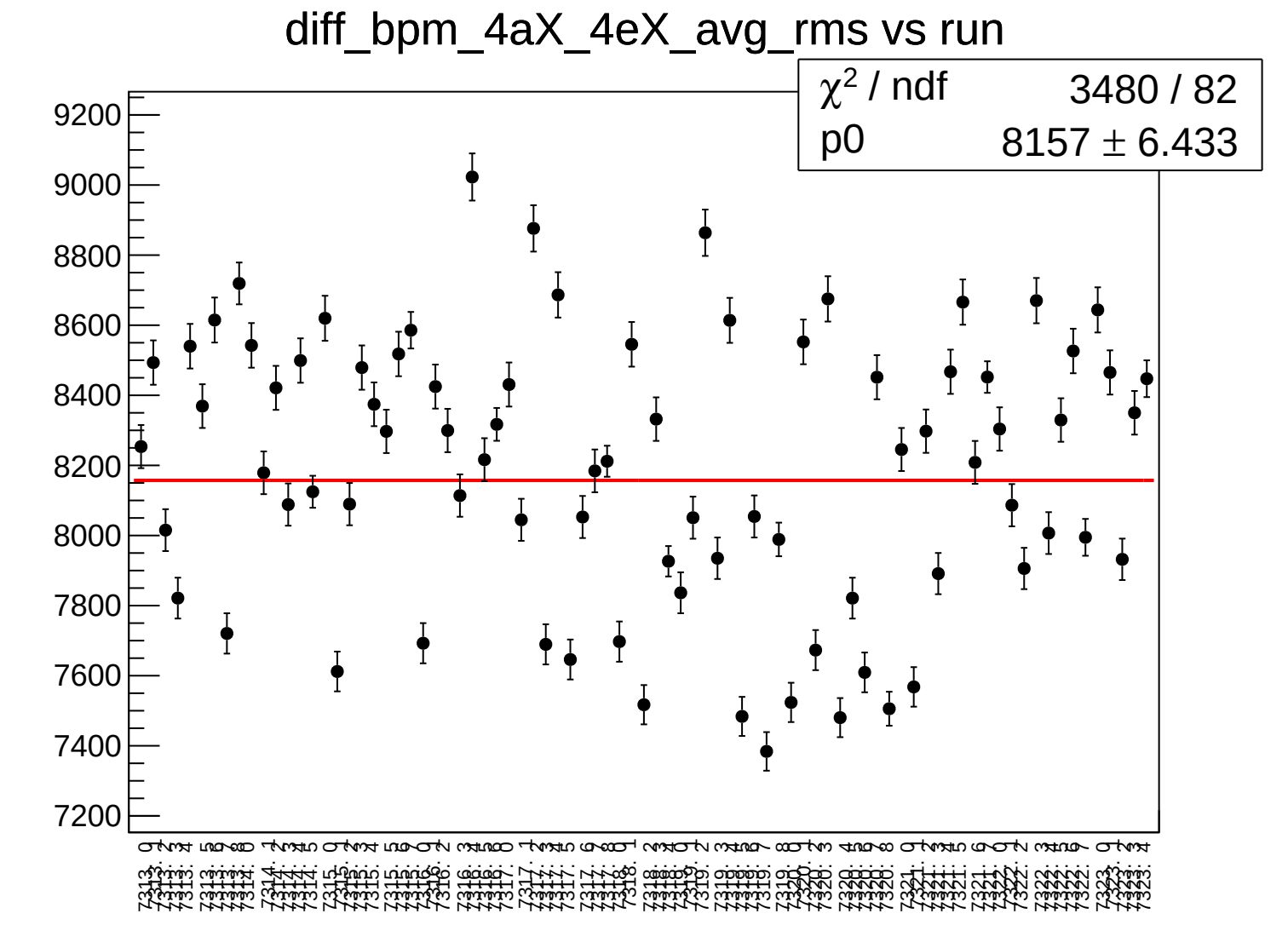

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 62.51 / 82
p0 −0.6308 ± 0.4773
pull
Entries 83
Mean 3089
Std Dev 0

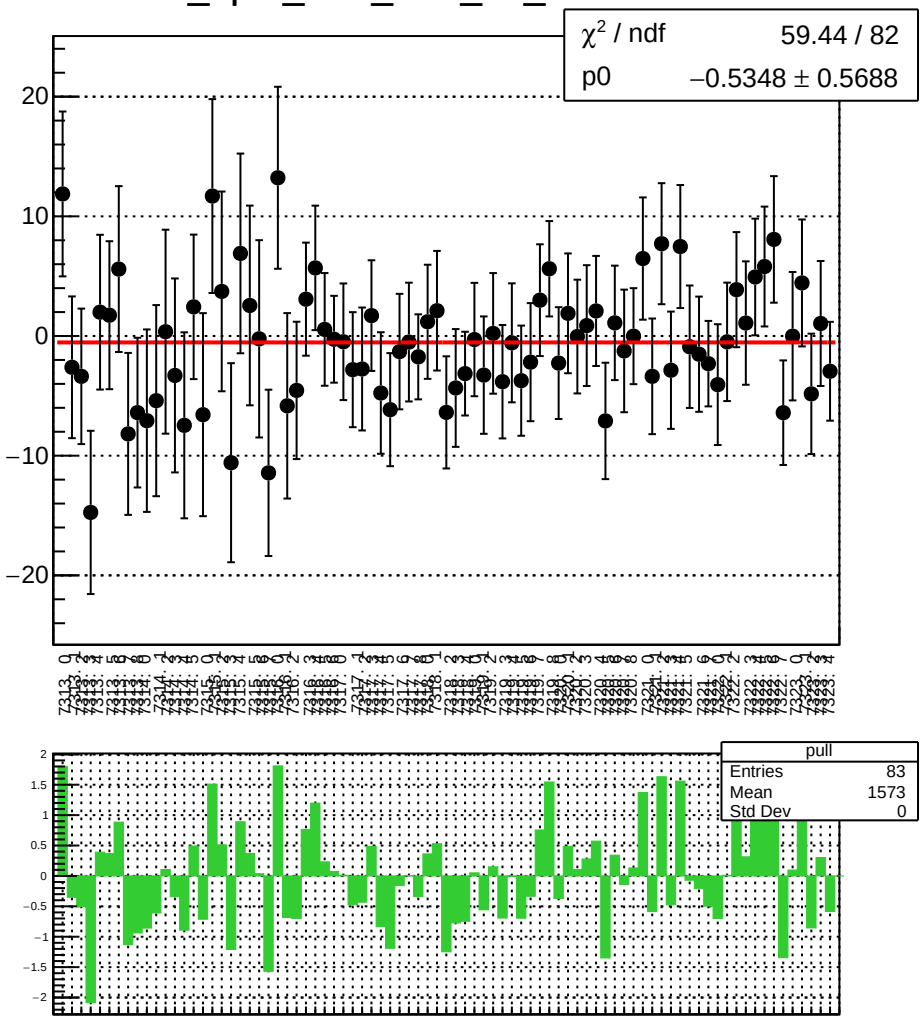

pull1D
Entries 83
Mean 0.0004901
Std Dev 0.8679

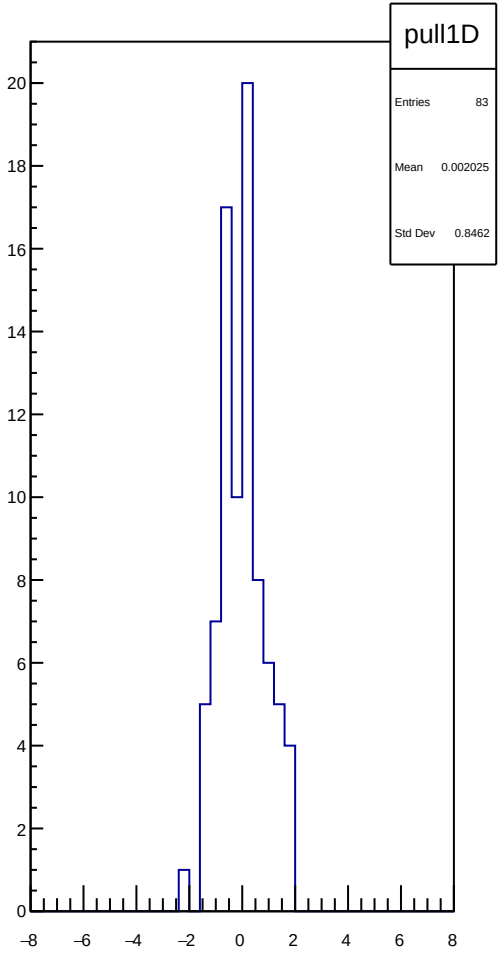

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 181.3 / 82
p0 428.4 ± 0.3375
450
445
440
435
430
425
420
415

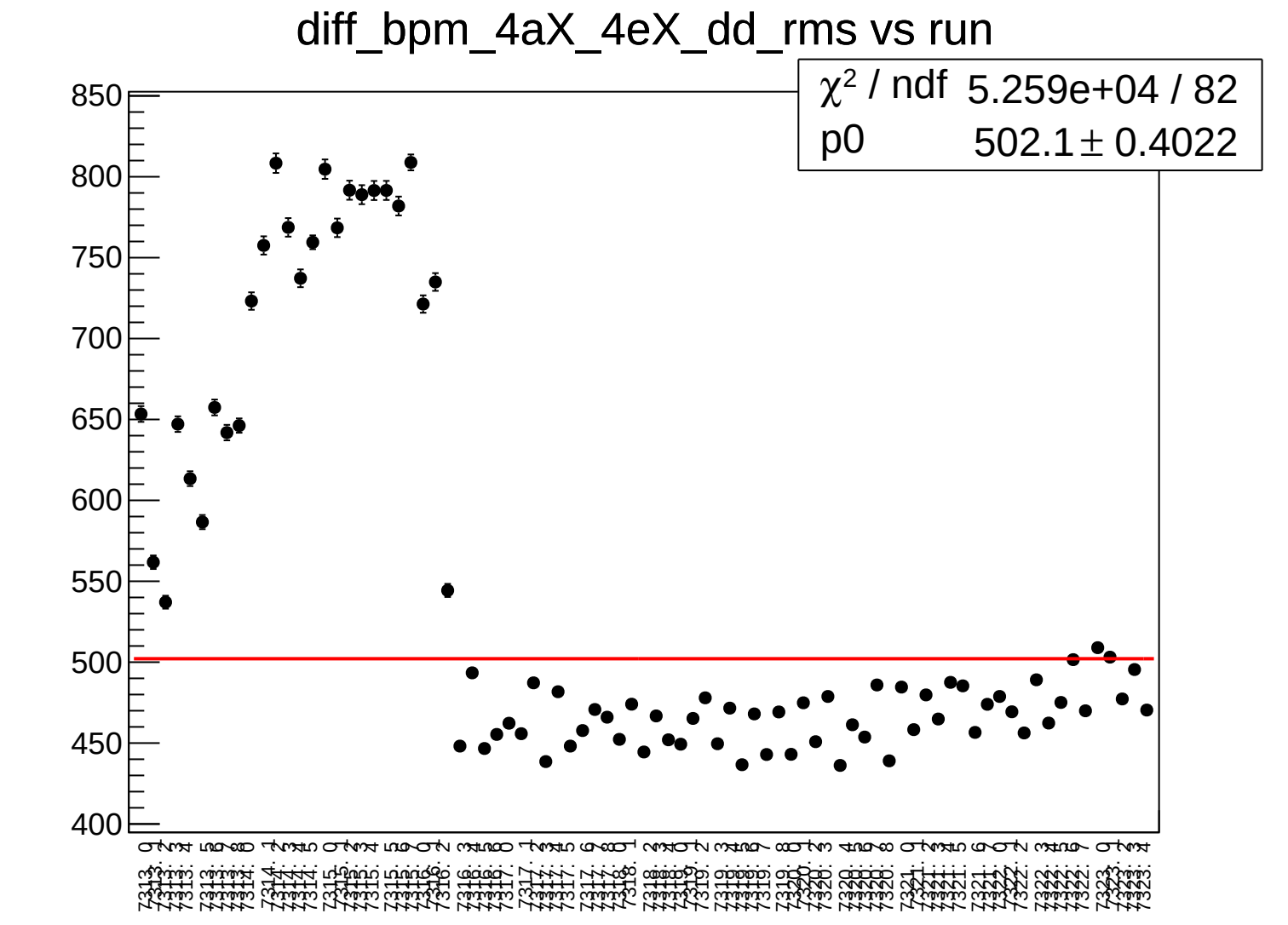

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 61.87 / 82
p0 −3.753 ± 9.097
pull
Entries 83
Mean −113.6
Std Dev 0

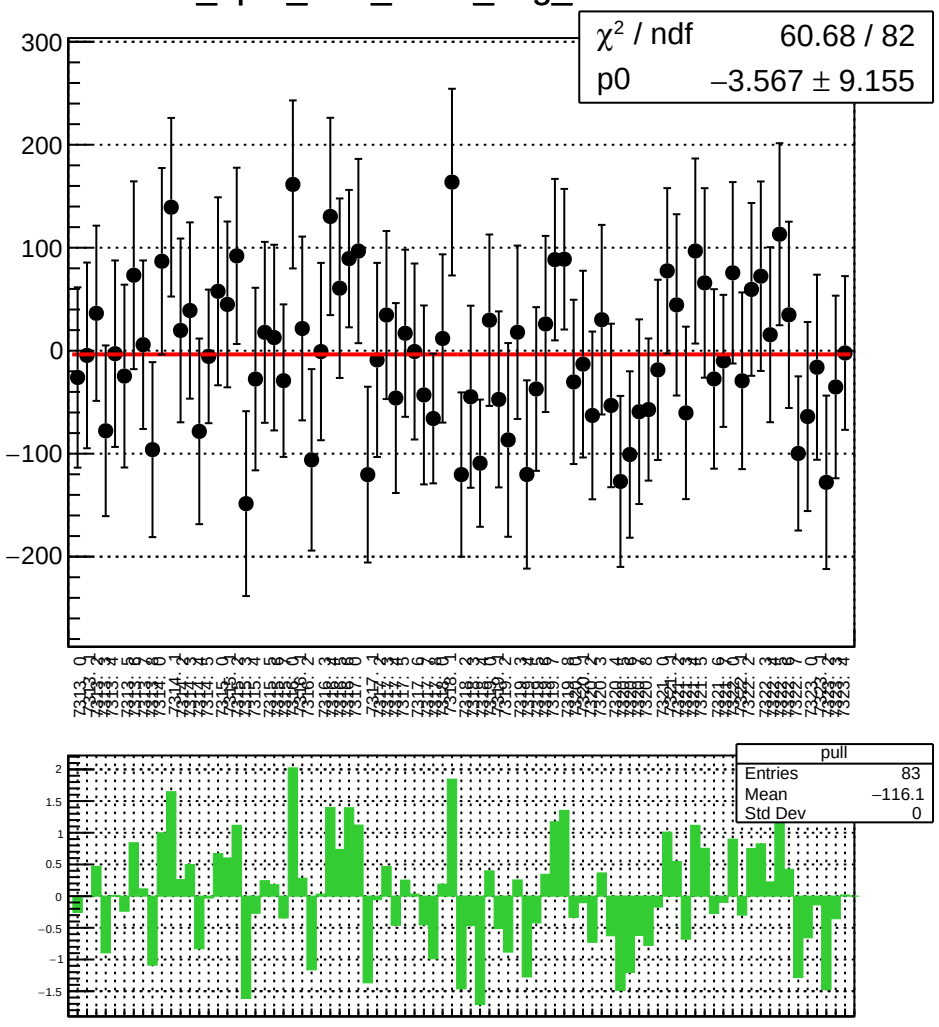

pull1D
Entries 83
Mean 0.01399
Std Dev 0.8633

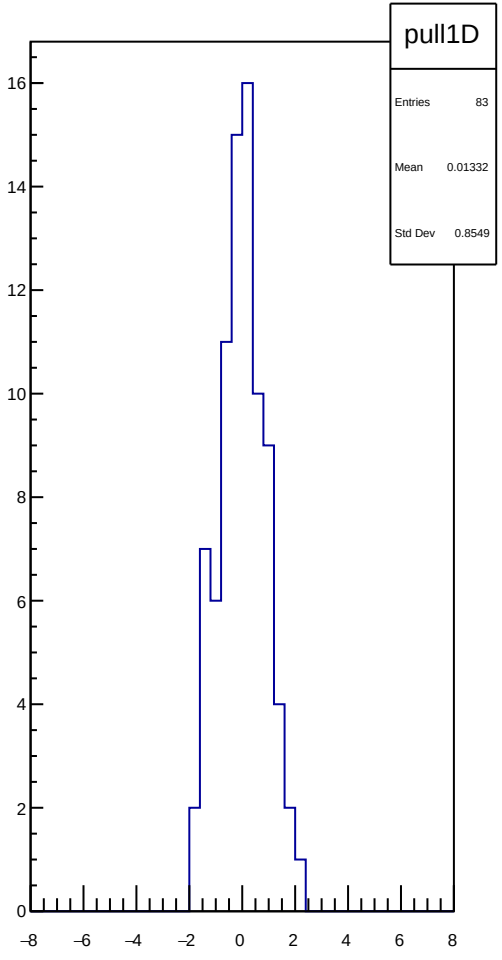

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3480 / 82
p0 8157 ± 6.433
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

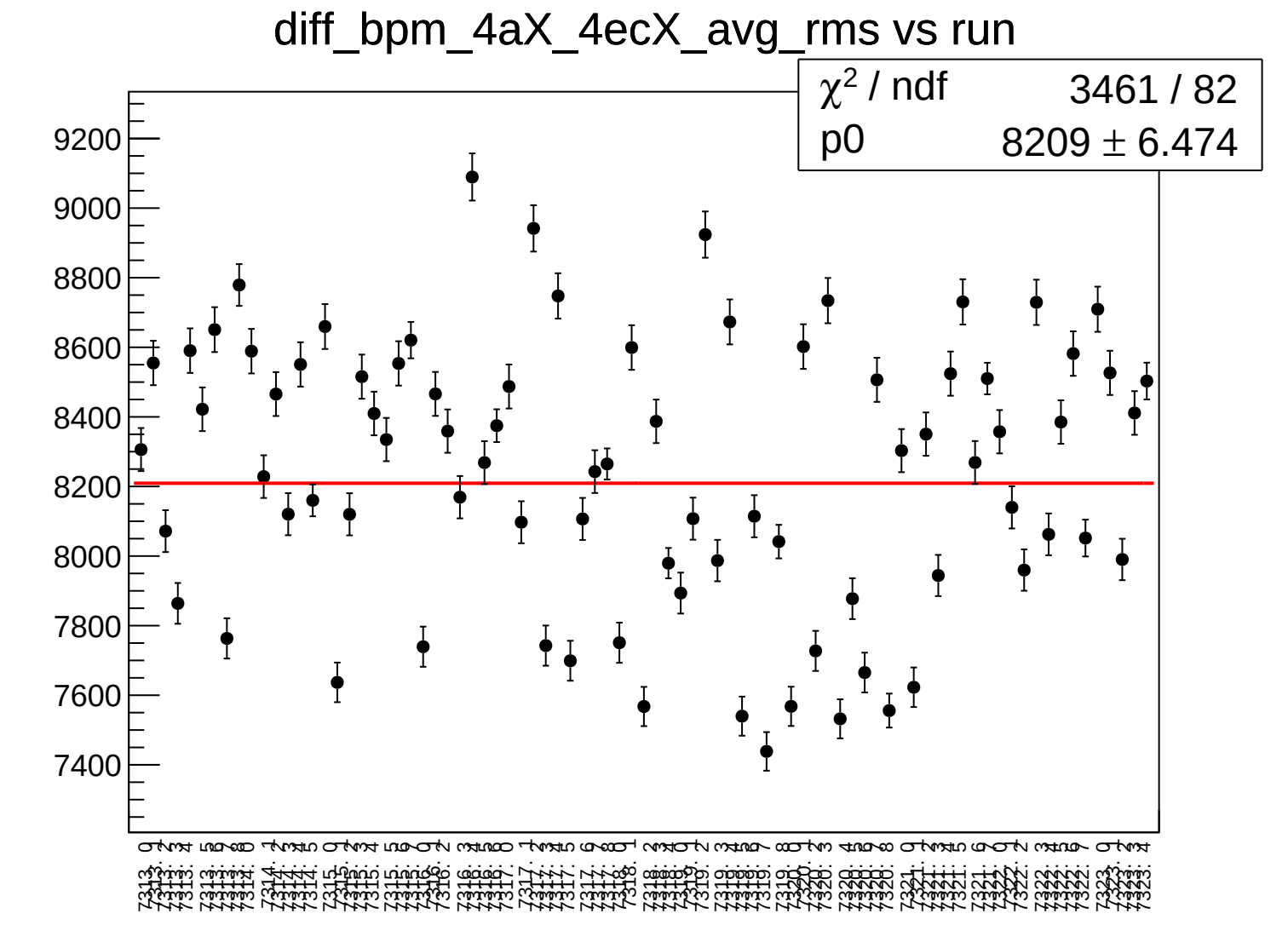

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 59.44 / 82
p0 −0.5348 ± 0.5688
pull
Entries 83
Mean 1573
Std Dev 0

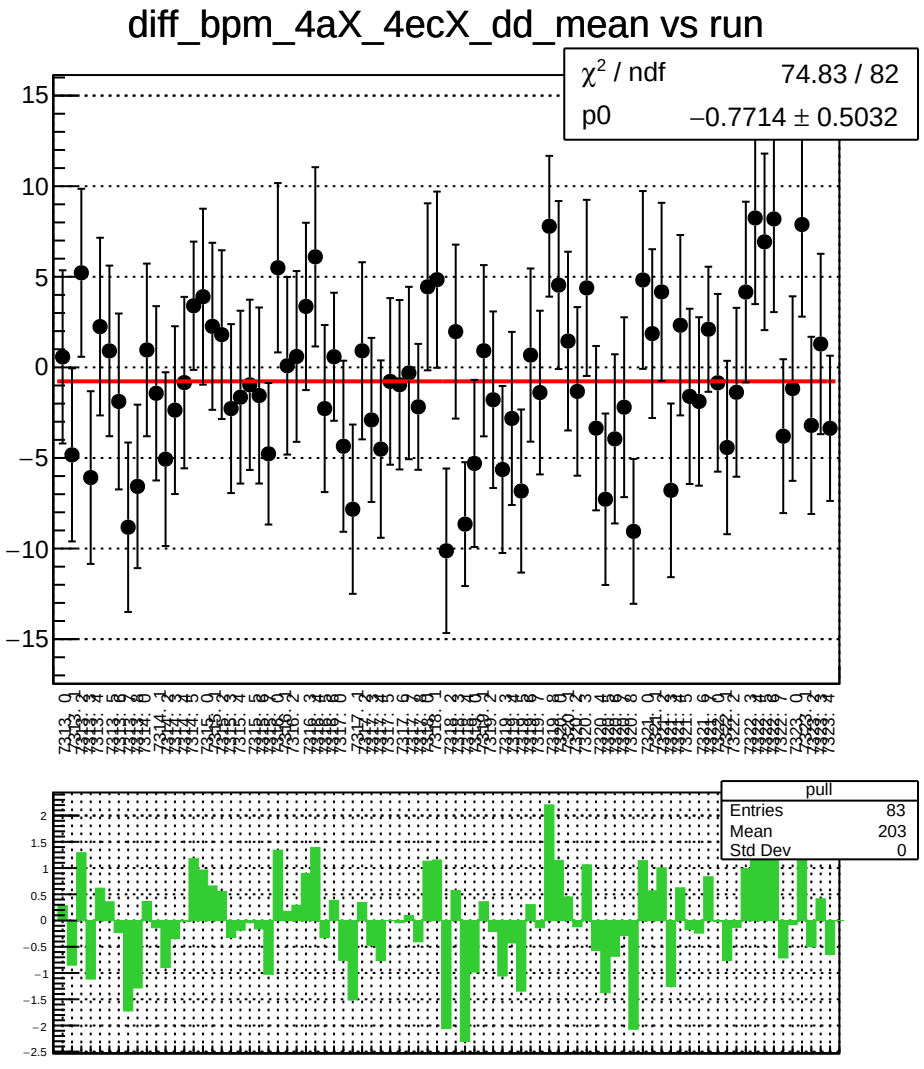

pull1D
Entries 83
Mean 0.002025
Std Dev 0.8462

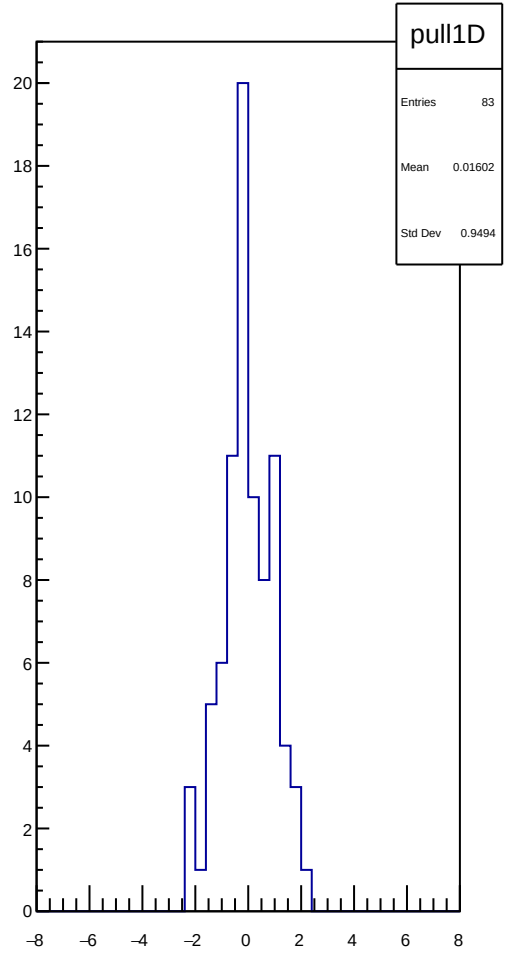

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 5.259e+04 / 82
p0 502.1 ± 0.4022
850
800
750
700
650
600
550
500
450
400

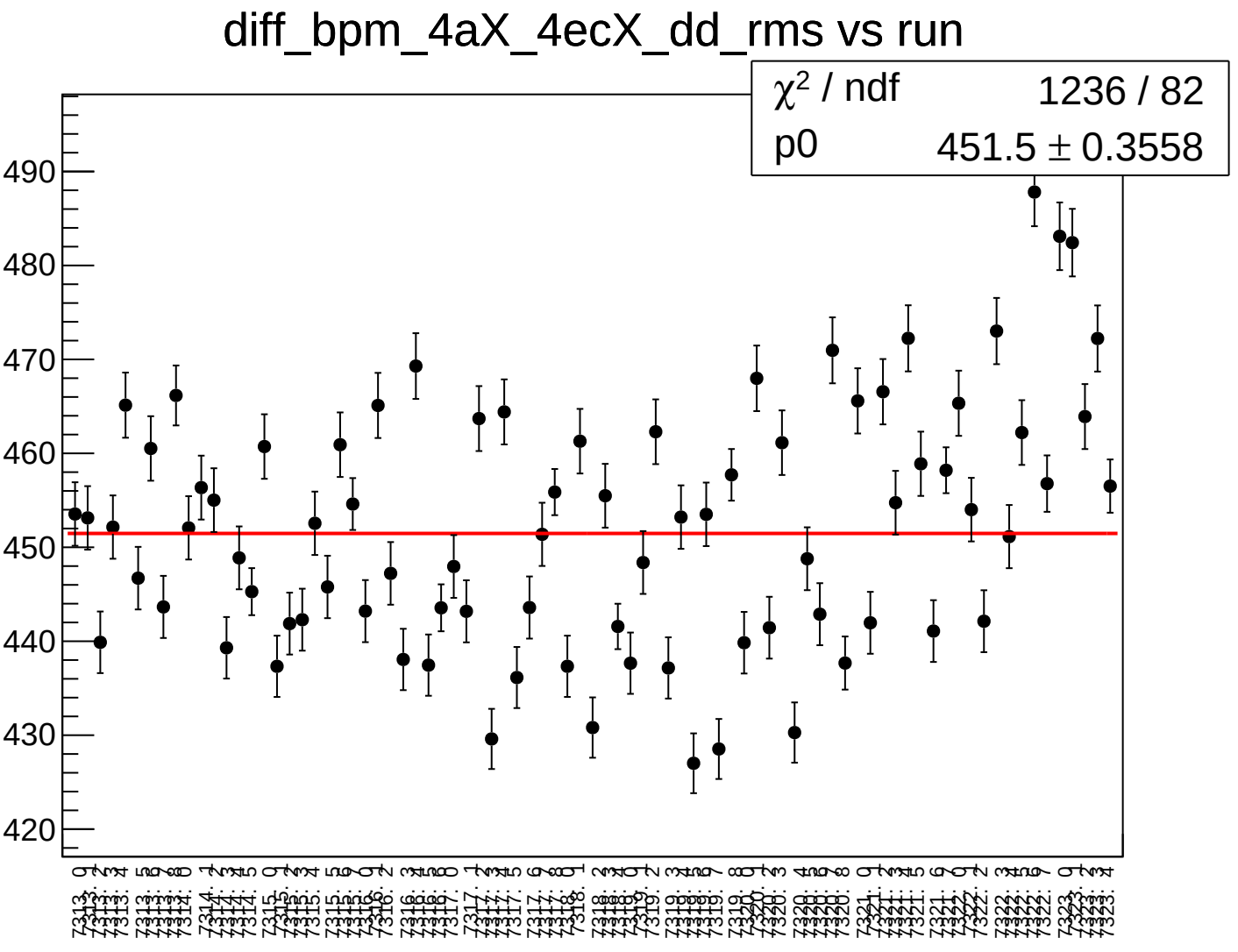

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 60.68 / 82
p0 −3.567 ± 9.155
pull
Entries 83
Mean −116.1
Std Dev 0

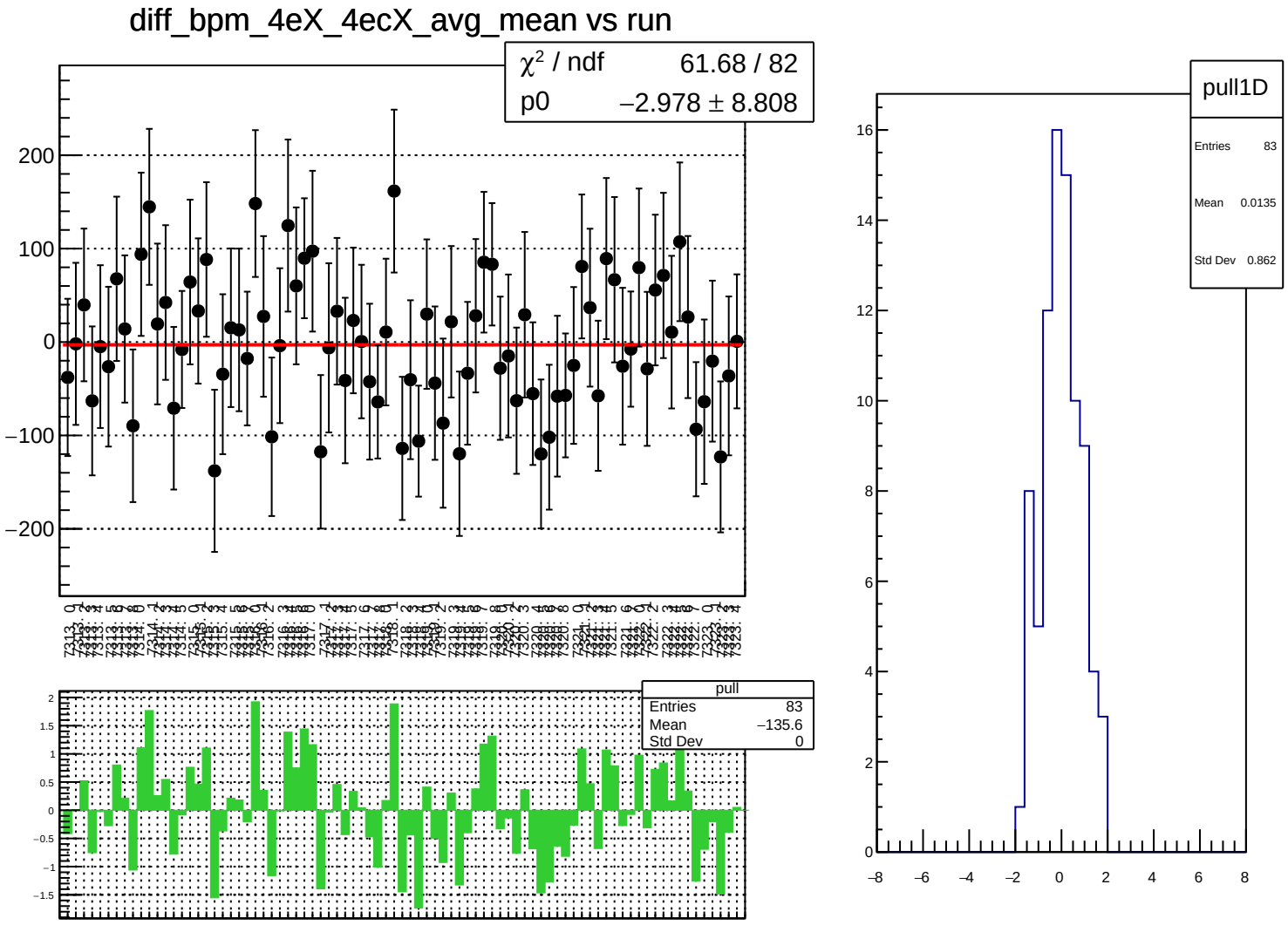

pull1D
Entries 83
Mean 0.01332
Std Dev 0.8549

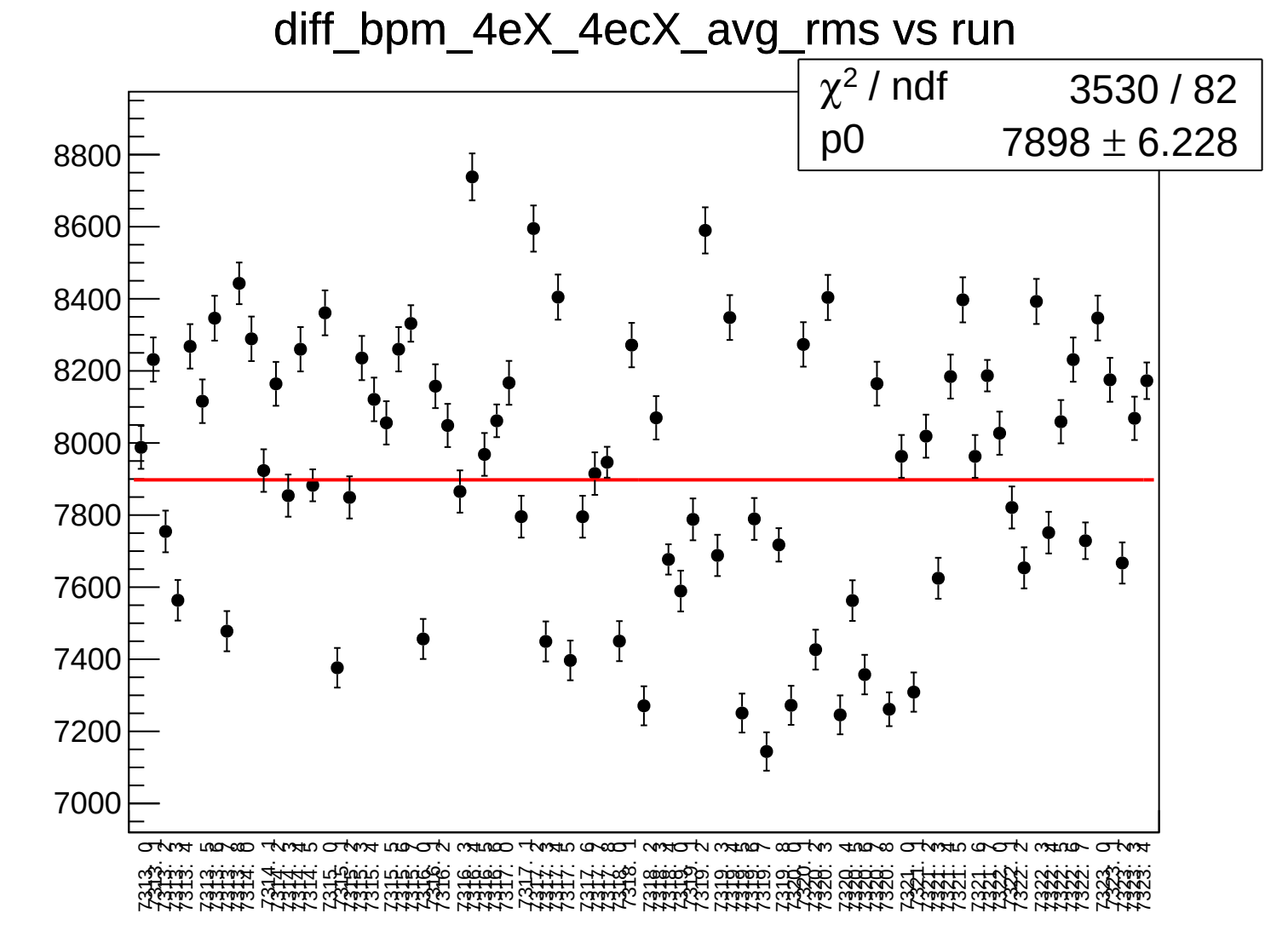

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3461 / 82
p0 8209 ± 6.474
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

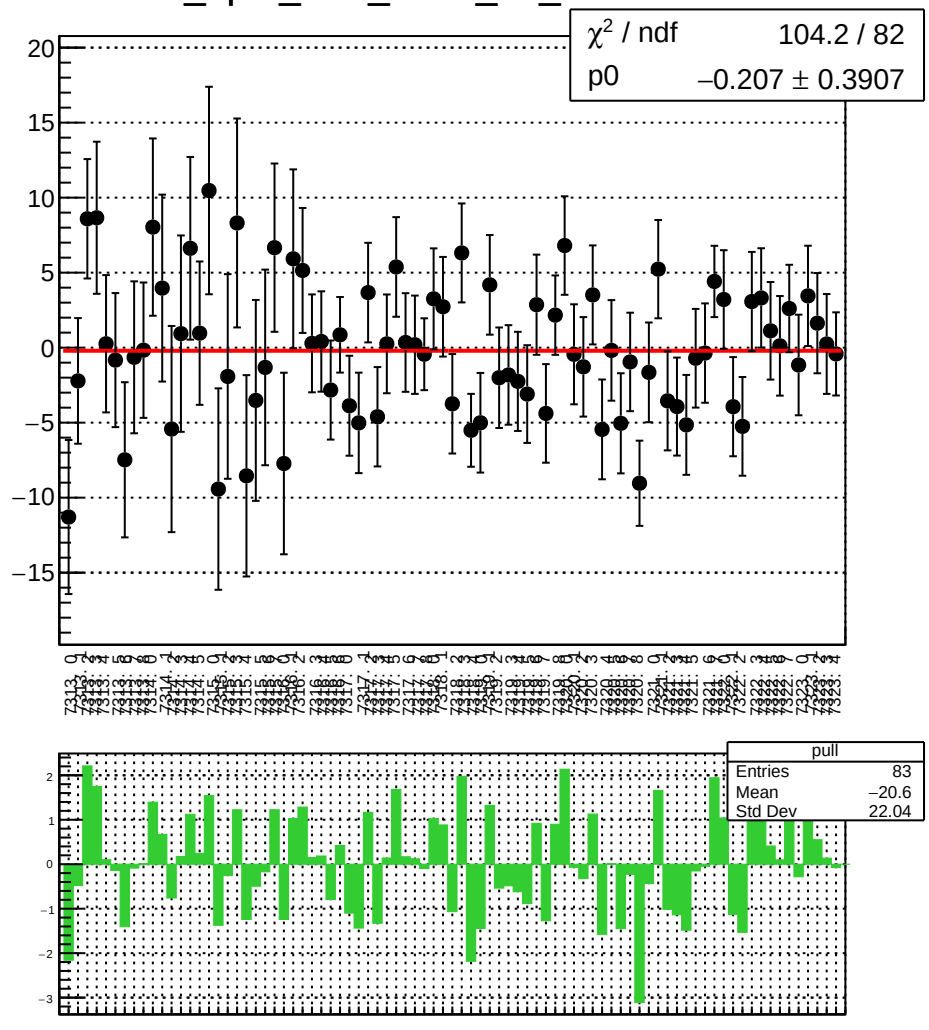

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 74.83 / 82
p0 −0.7714 ± 0.5032
pull
Entries 83
Mean 203
Std Dev 0

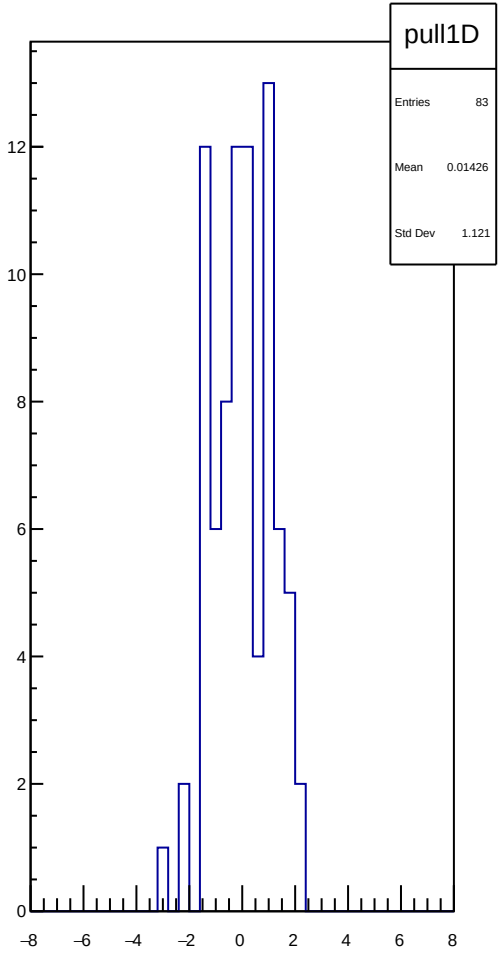

pull1D
Entries 83
Mean 0.01602
Std Dev 0.9494

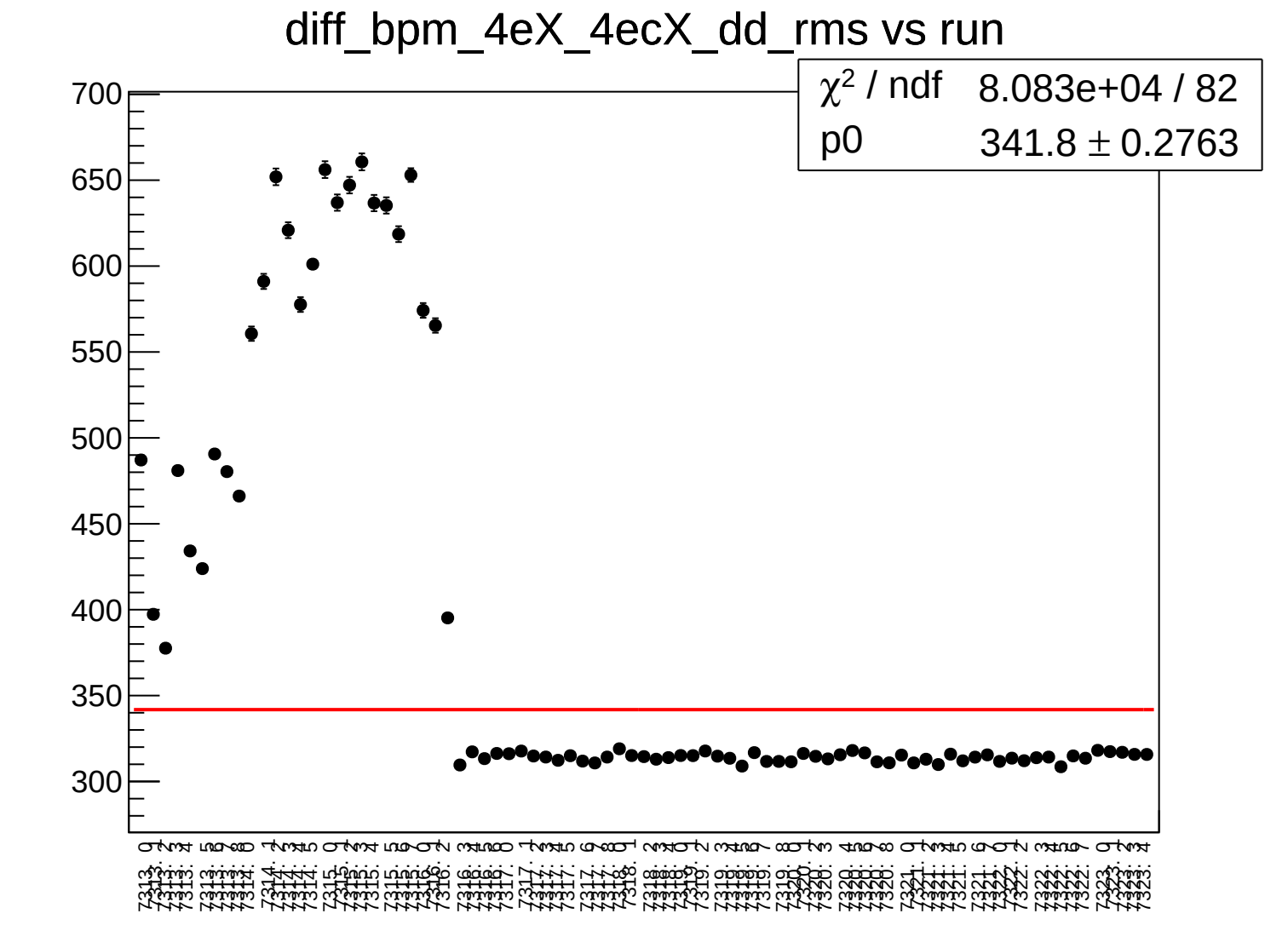

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1236 / 82
p0 451.5 ± 0.3558
490
480
470
460
450
440
430
420

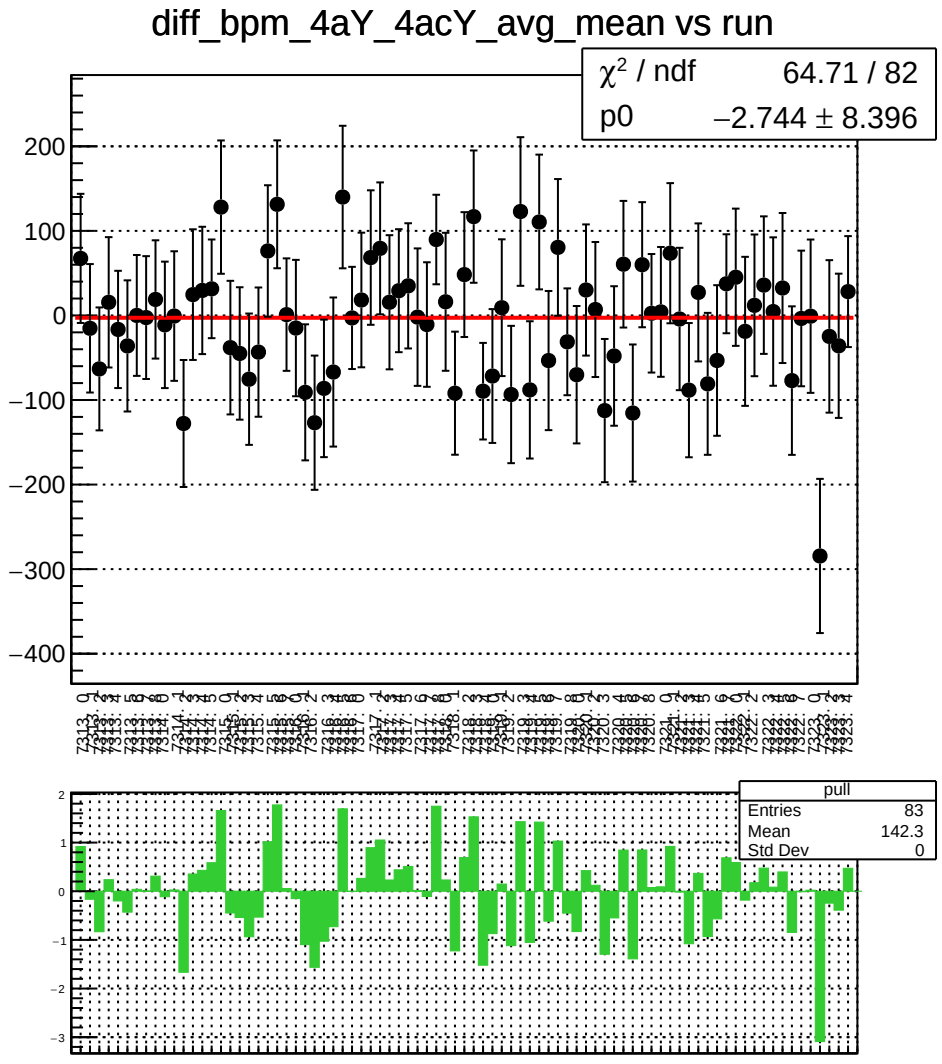

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 61.68 / 82
p0 −2.978 ± 8.808
200
100
0
−100
−200
pull
Entries 83
Mean −135.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.0135
Std Dev 0.862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

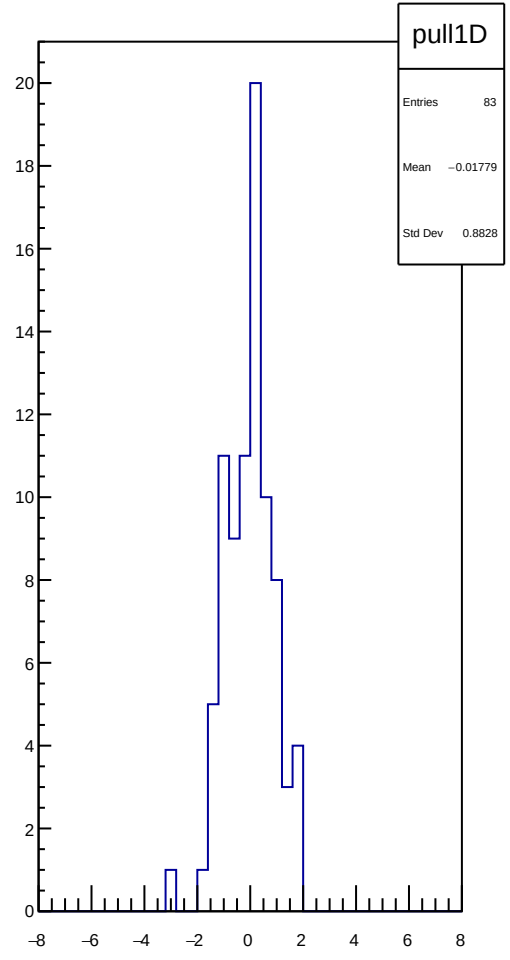

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3530 / 82
p0 7898 ± 6.228
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

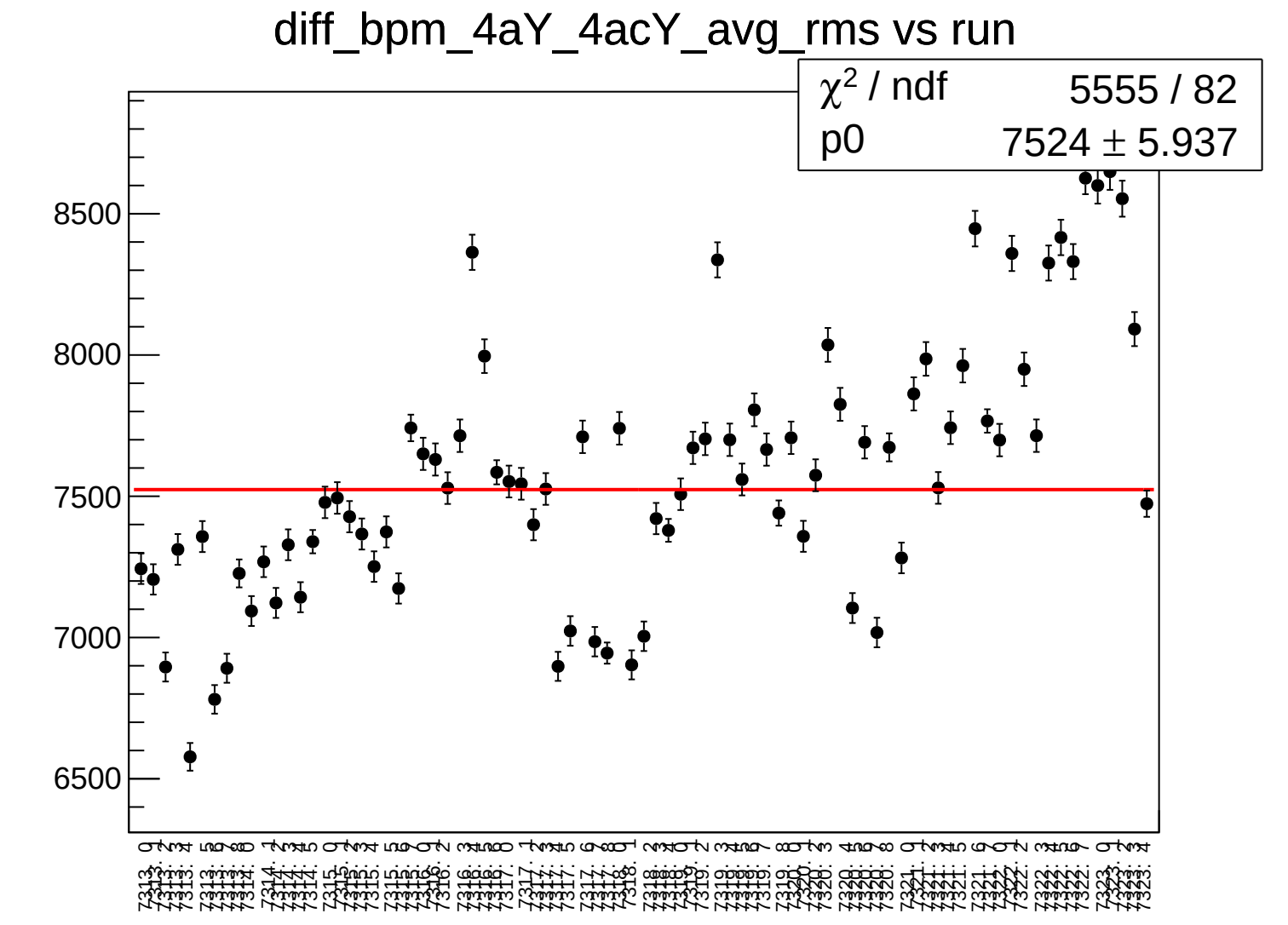

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 104.2 / 82
p0 −0.207 ± 0.3907
pull
Entries 83
Mean −20.6
Std Dev 22.04

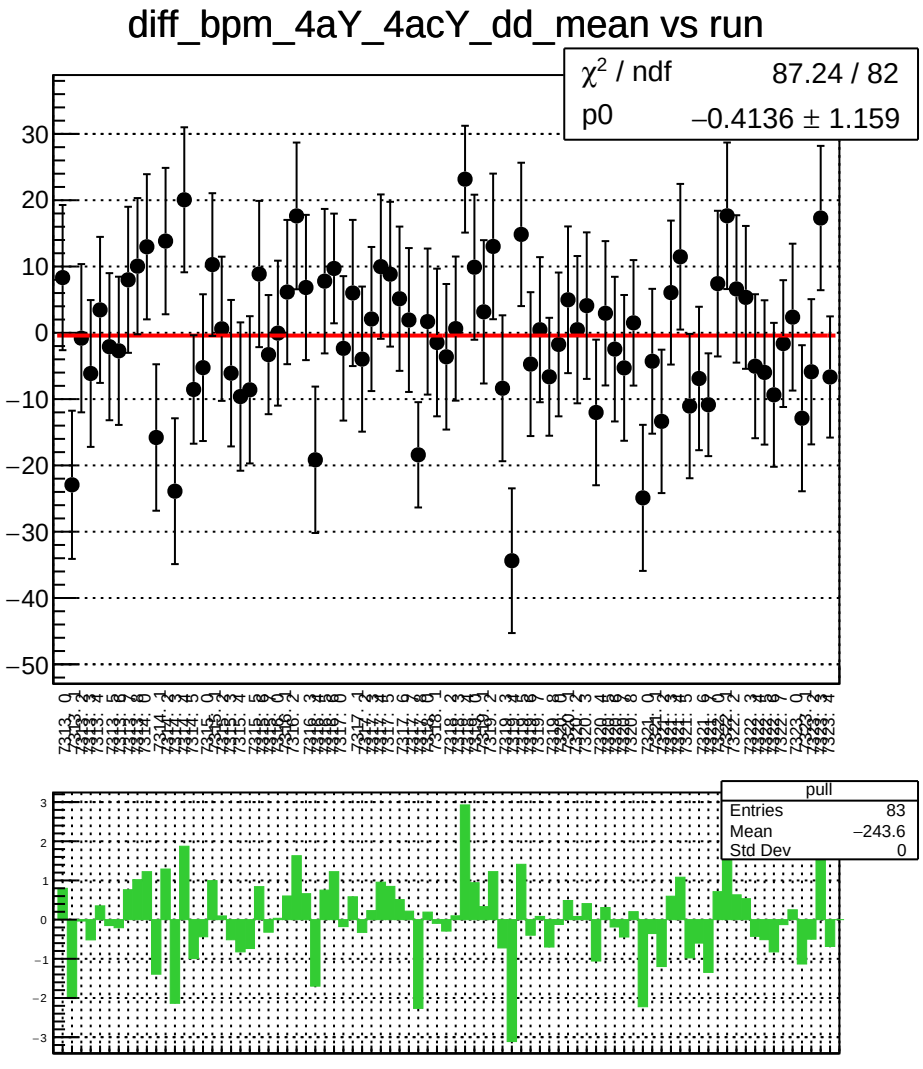

pull1D
Entries 83
Mean 0.01426
Std Dev 1.121

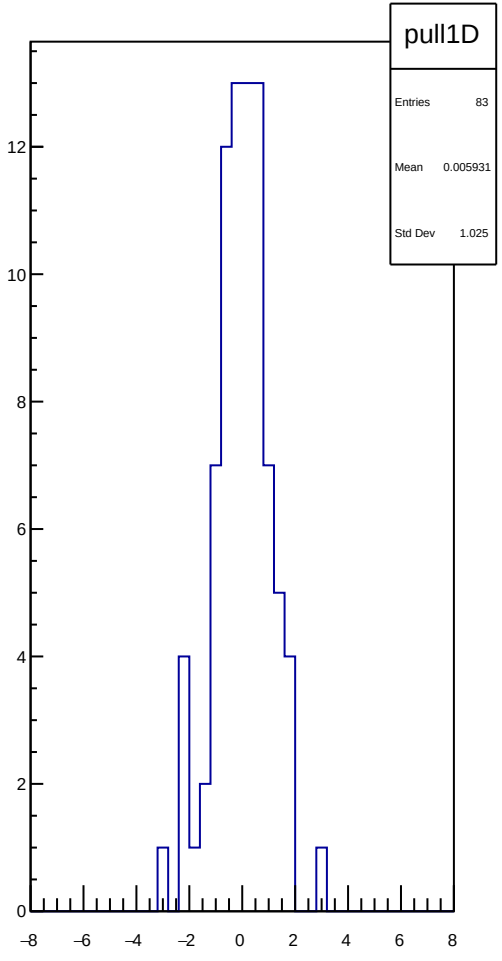

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 8.083e+04 / 82
p0 341.8 ± 0.2763
700
650
600
550
500
450
400
350
300

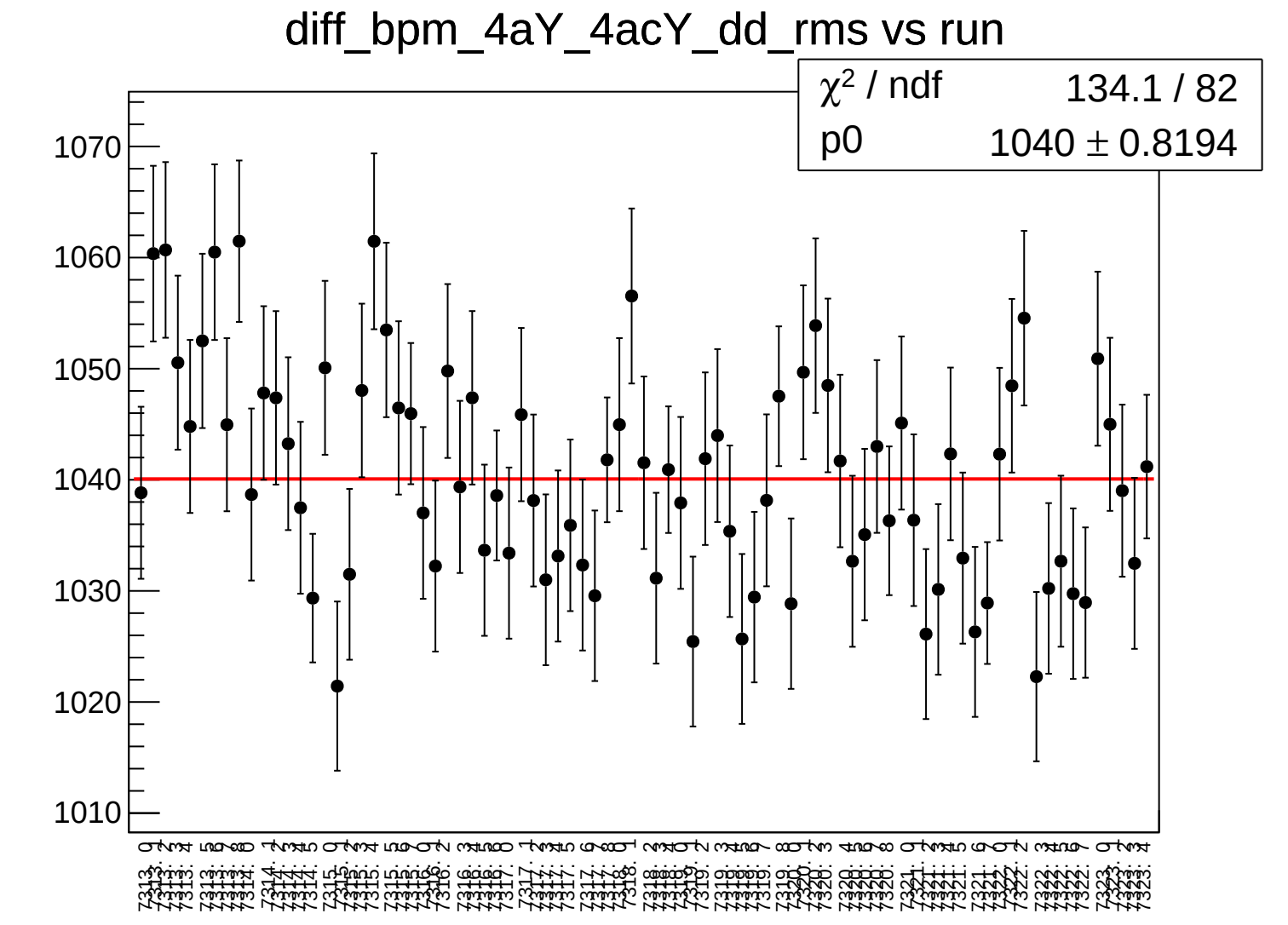

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 64.71 / 82
p0 −2.744 ± 8.396
pull
Entries 83
Mean 142.3
Std Dev 0

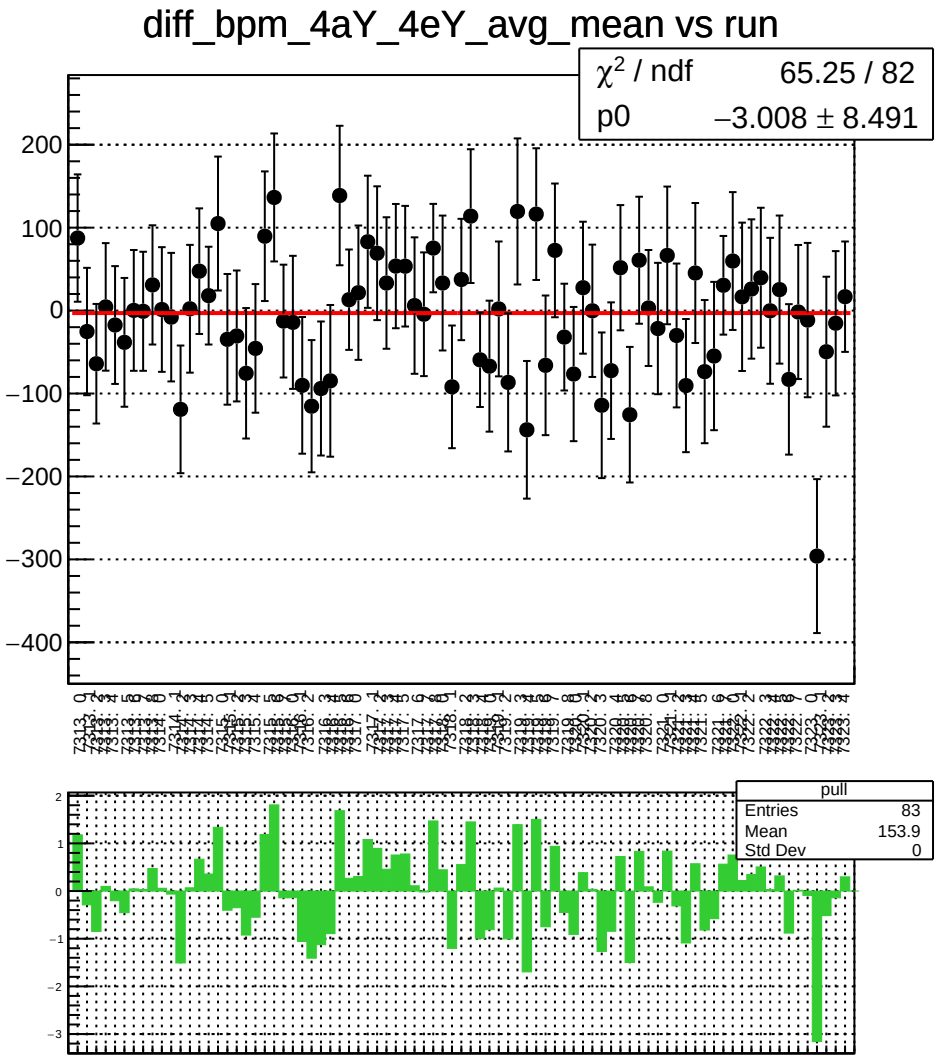

pull1D
Entries 83
Mean −0.01779
Std Dev 0.8828

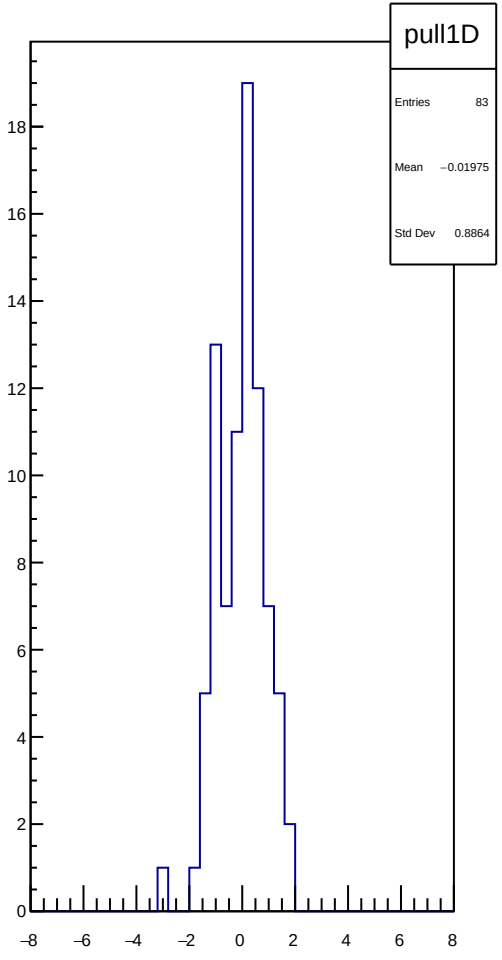

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5555 / 82
p0 7524 ± 5.937
8500
8000
7500
7000
6500

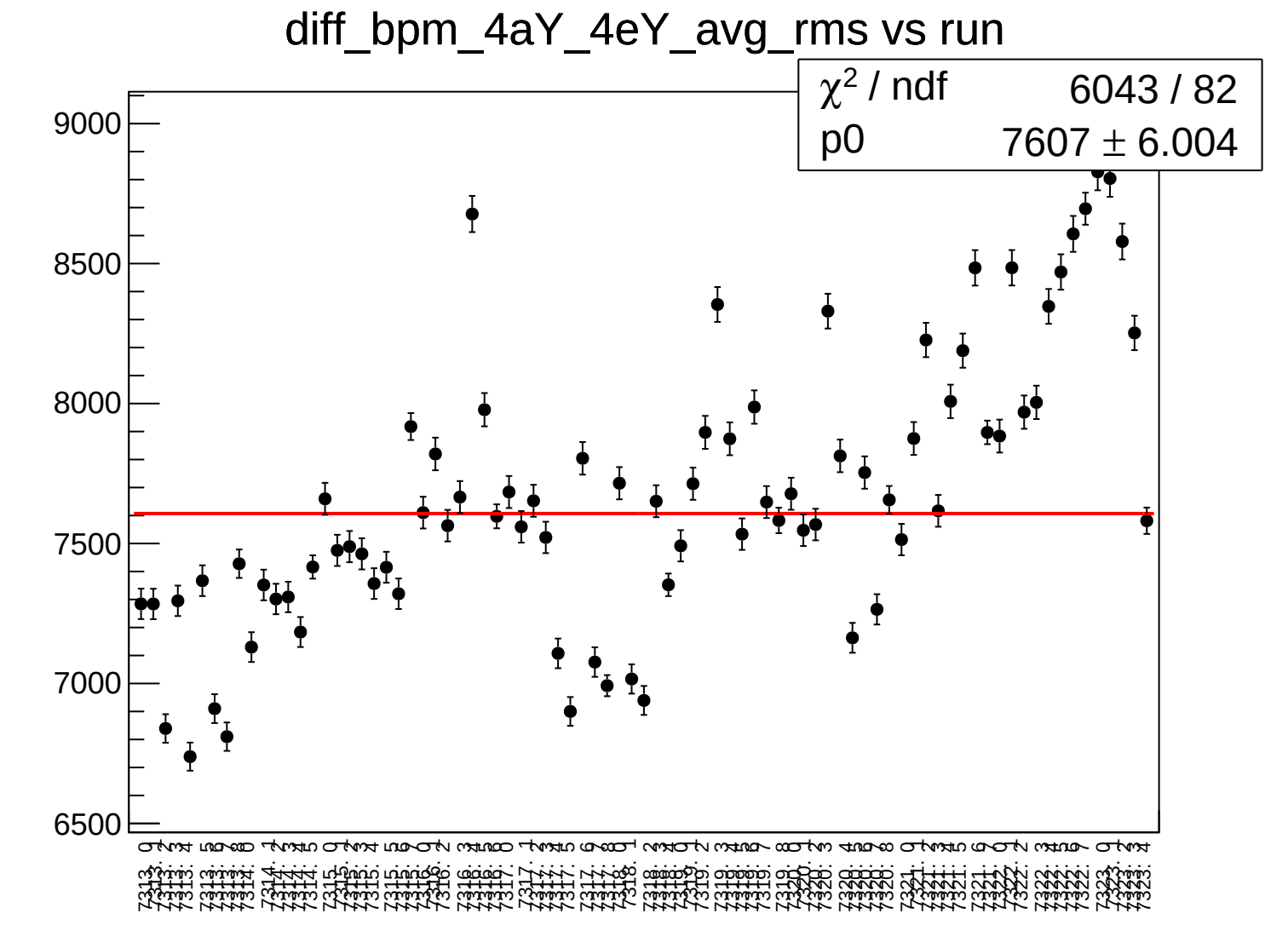

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 87.24 / 82
p0 −0.4136 ± 1.159
pull
Entries 83
Mean −243.6
Std Dev 0

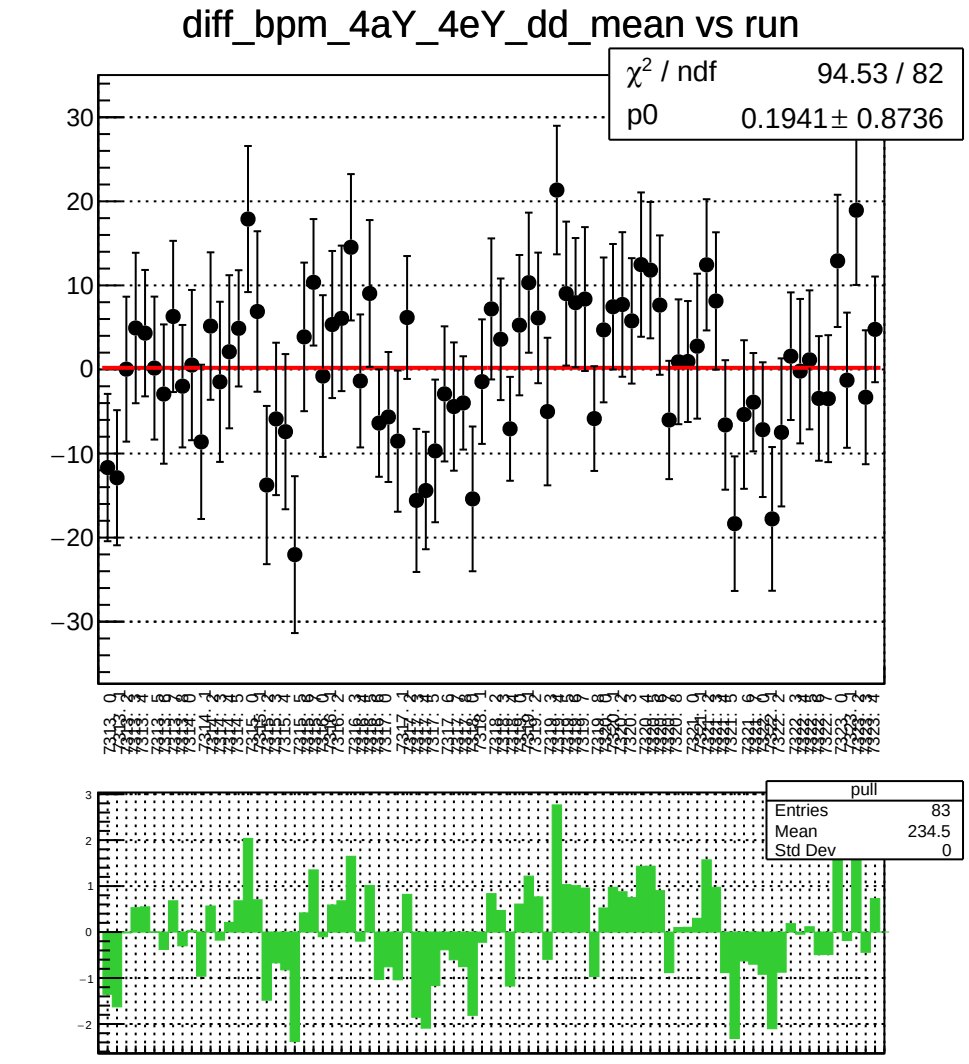

pull1D
Entries 83
Mean 0.005931
Std Dev 1.025

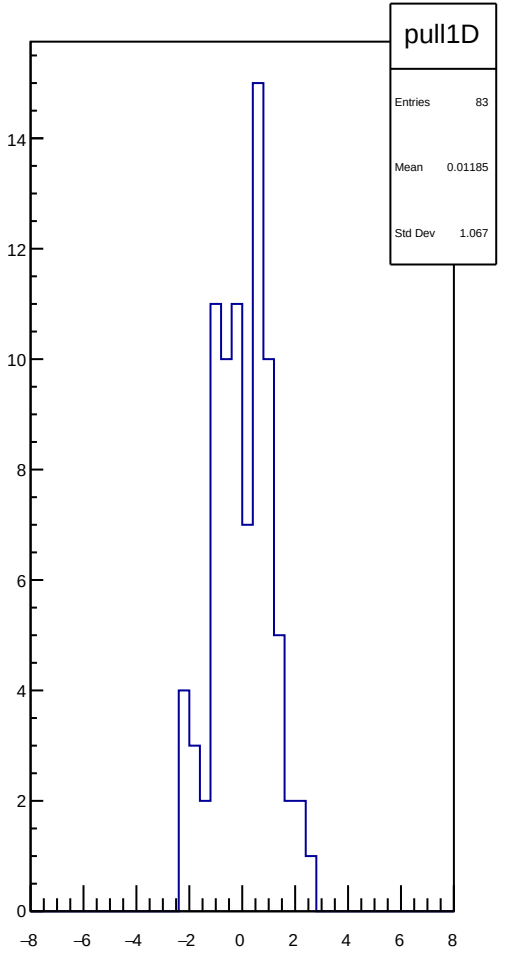

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 134.1 / 82
p0 1040 ± 0.8194
1070
1060
1050
1040
1030
1020
1010

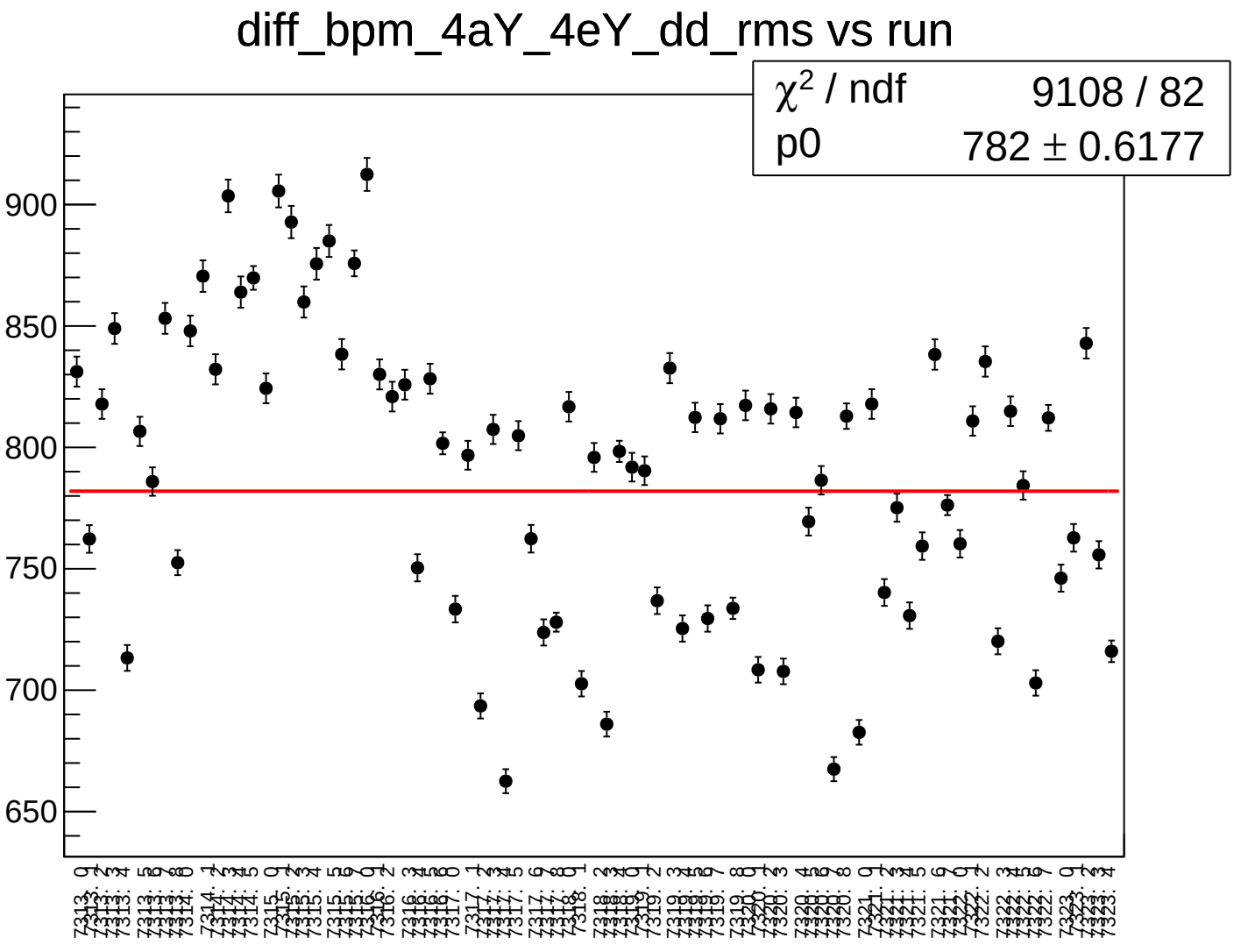

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 65.25 / 82
p0 −3.008 ± 8.491
200
100
0
−100
−200
−300
−400
pull
Entries 83
Mean 153.9
Std Dev 0
2
1
0
−1
−2
−3

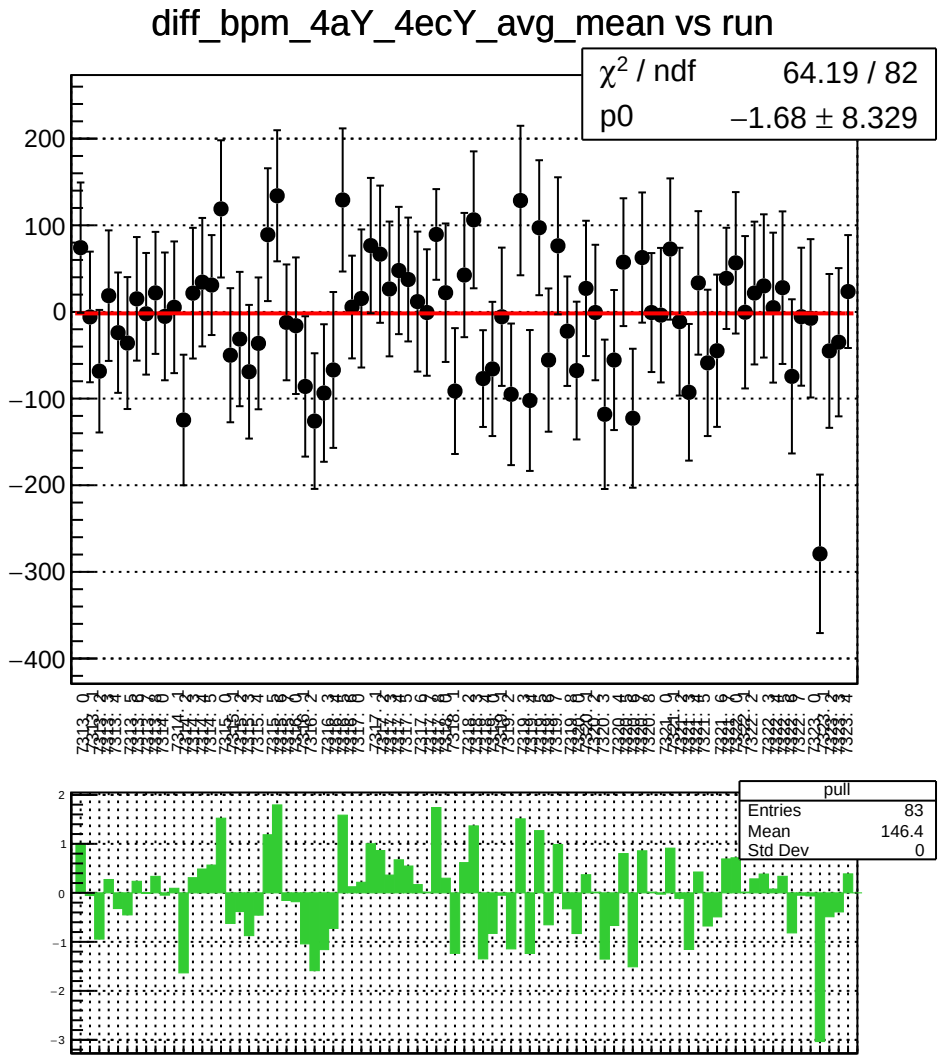

pull1D
Entries 83
Mean −0.01975
Std Dev 0.8864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

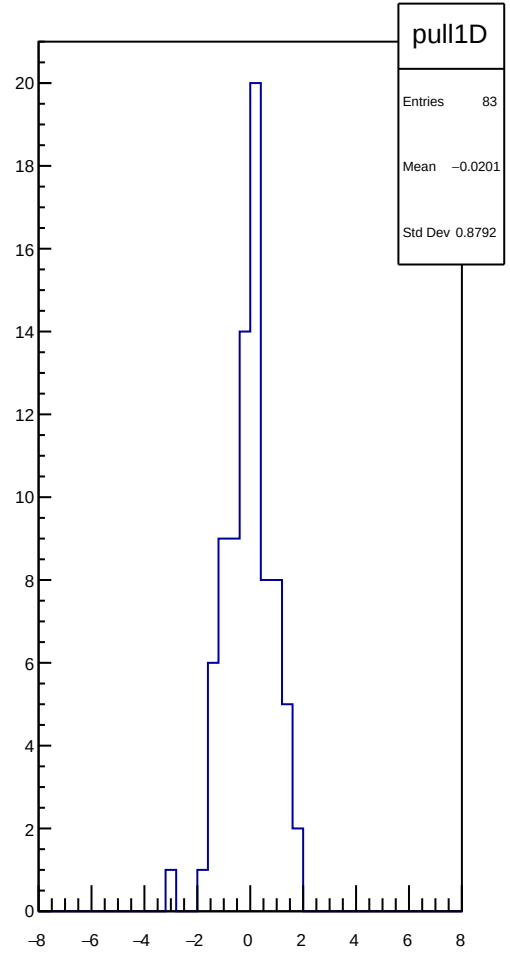

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 6043 / 82
p0 7607 ± 6.004
9000
8500
8000
7500
7000
6500

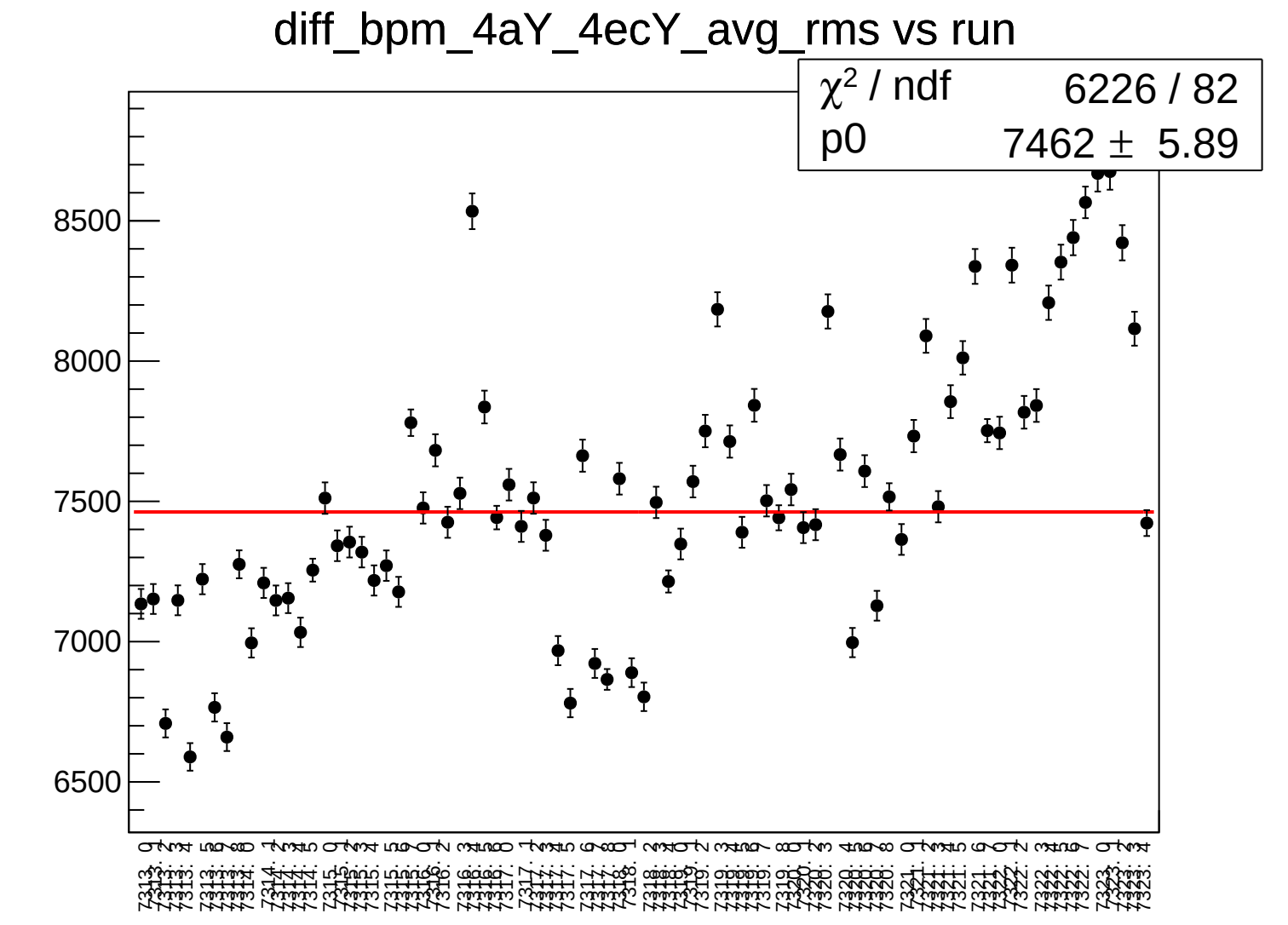

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 94.53 / 82
p0 0.1941 ± 0.8736
pull
Entries 83
Mean 234.5
Std Dev 0

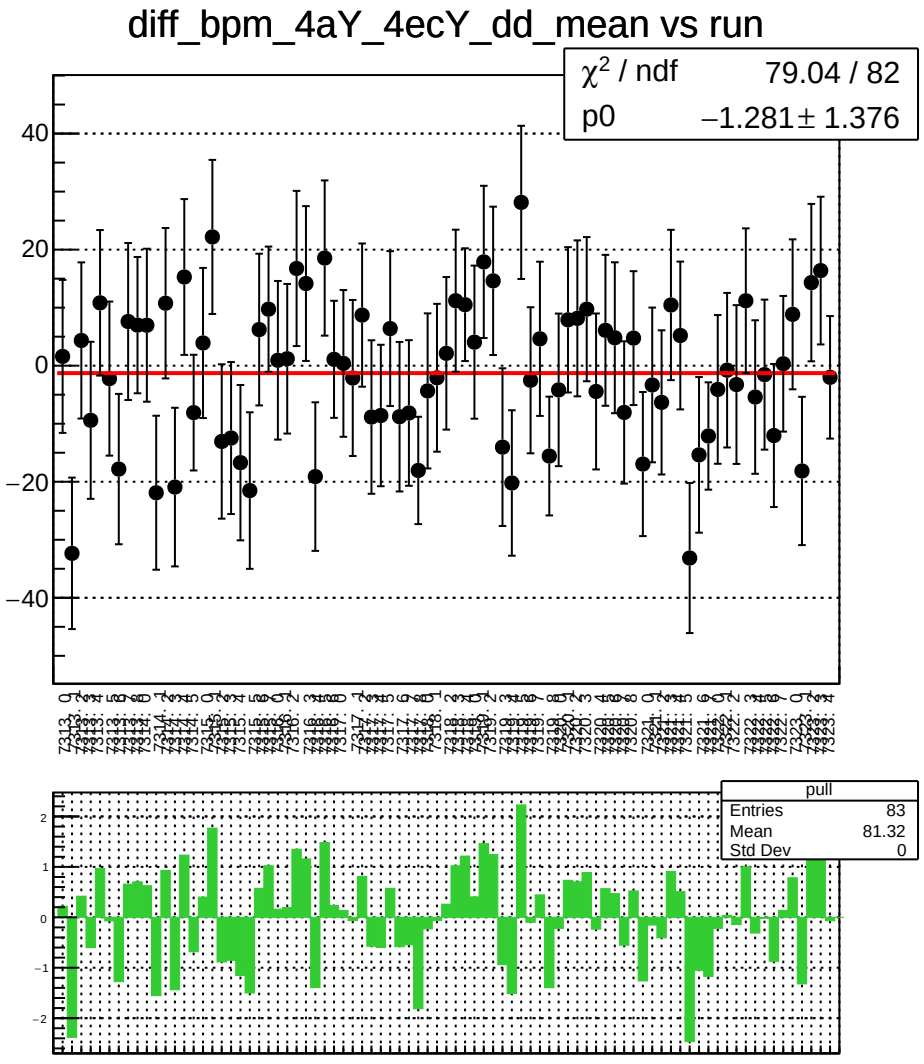

pull1D
Entries 83
Mean 0.01185
Std Dev 1.067

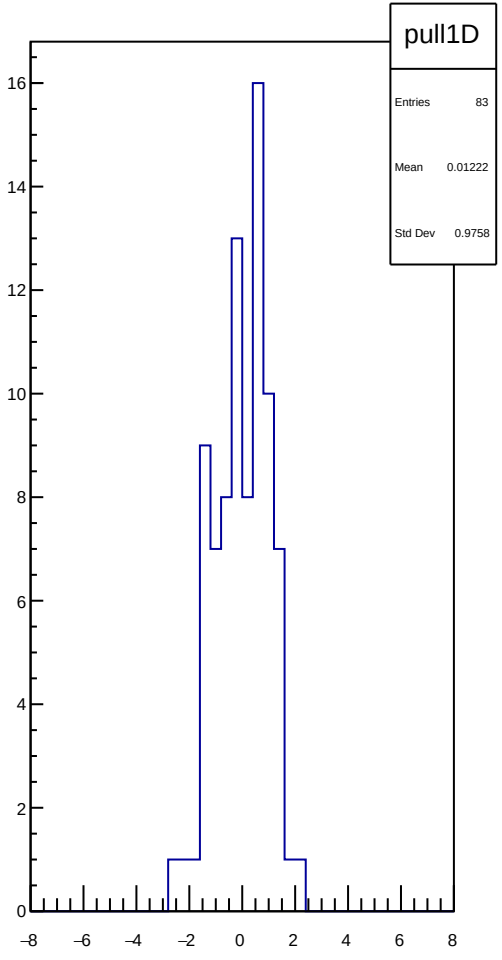

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 9108 / 82
p0 782 ± 0.6177
900
850
800
750
700
650

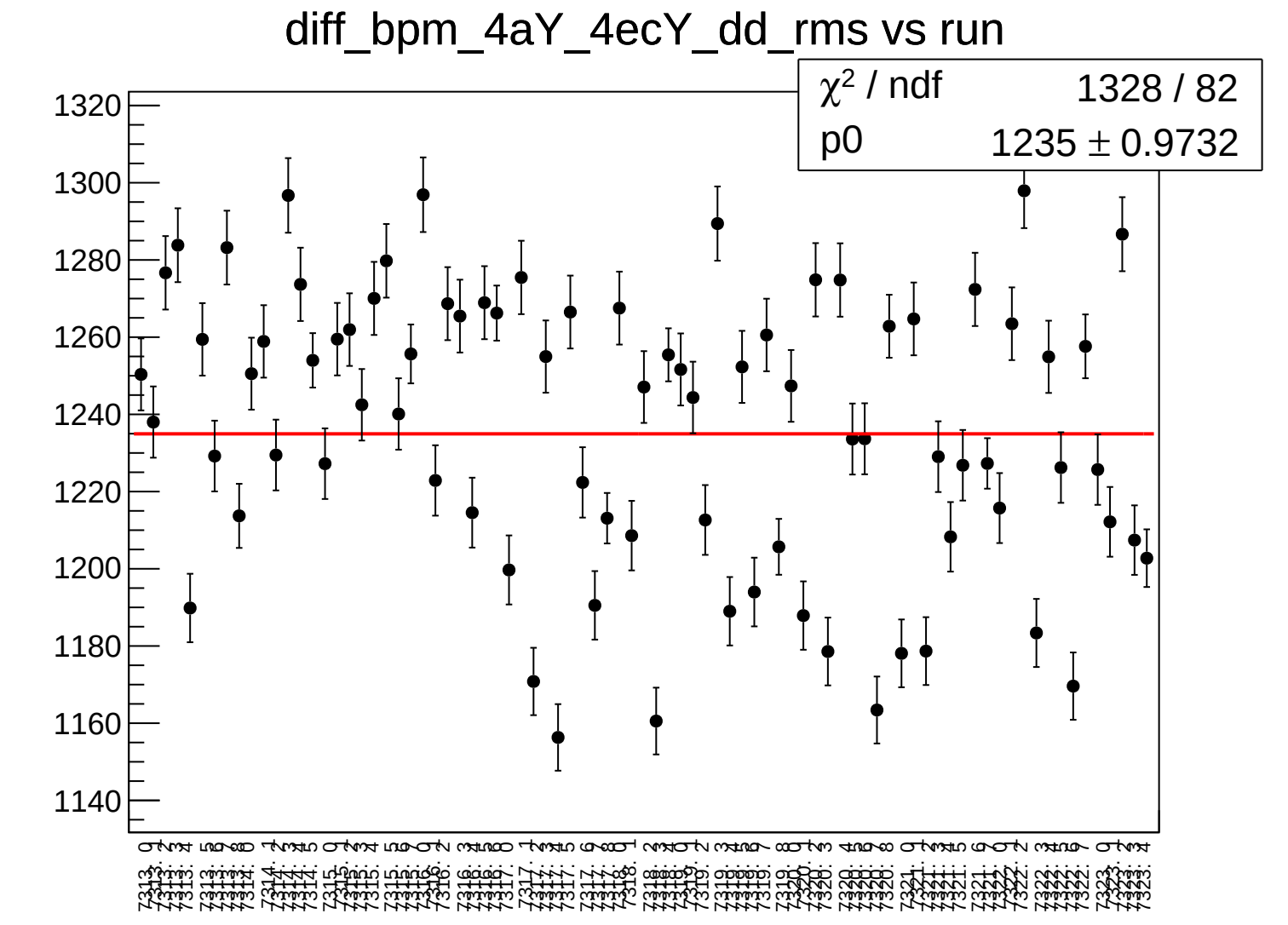

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 64.19 / 82
p0 −1.68 ± 8.329
pull
Entries 83
Mean 146.4
Std Dev 0

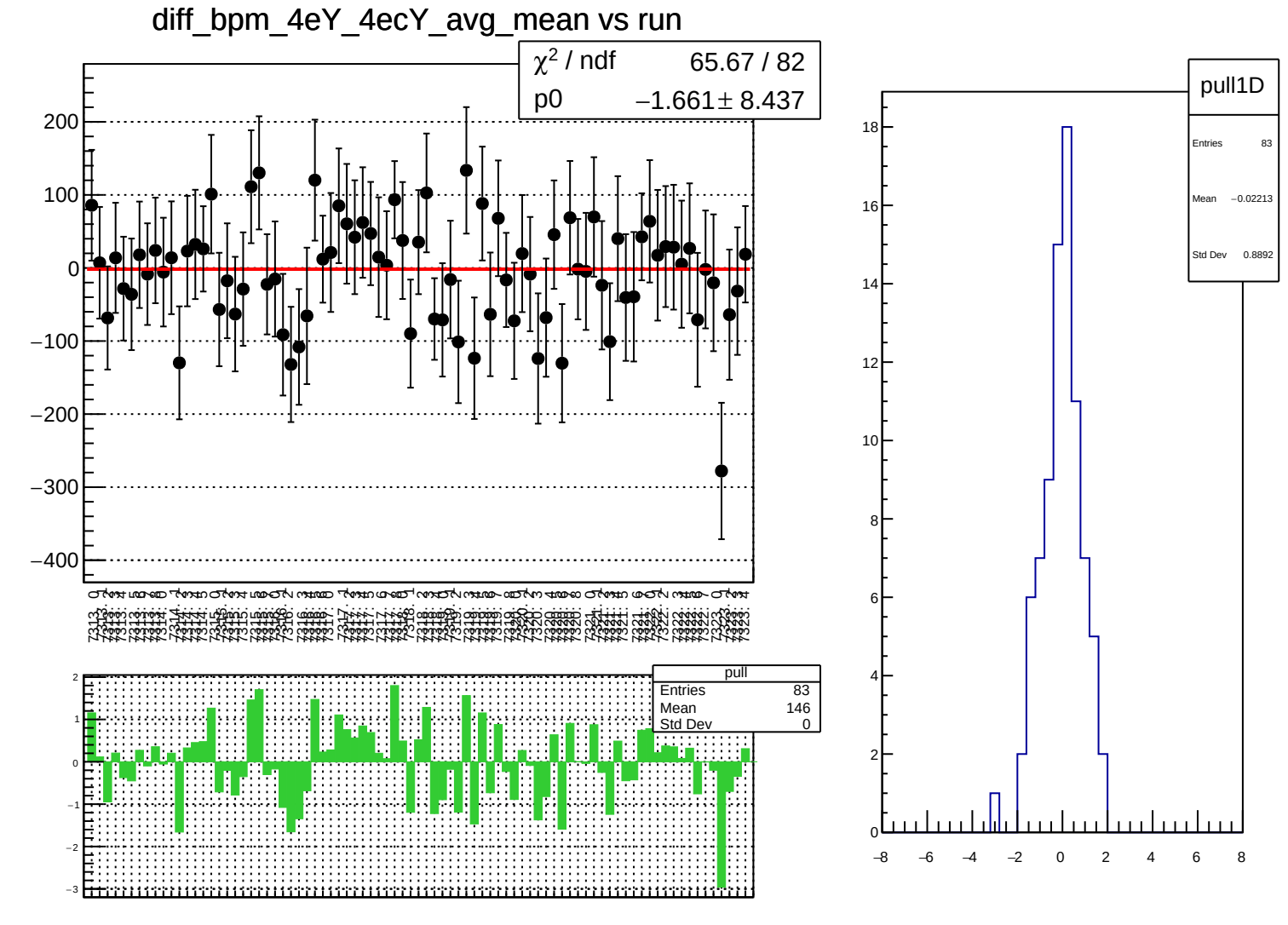

pull1D
Entries 83
Mean −0.0201
Std Dev 0.8792

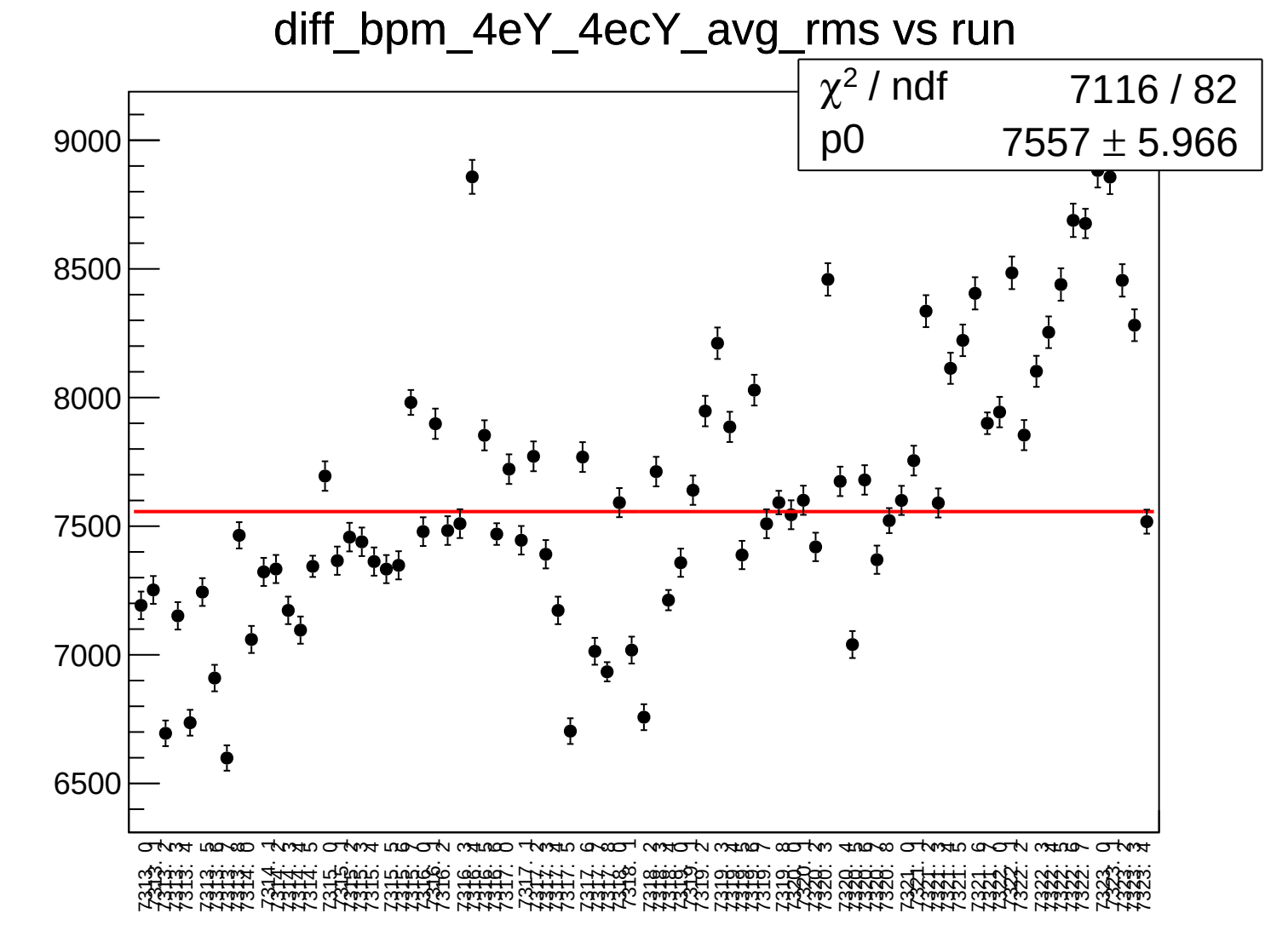

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 6226 / 82
p0 7462 ± 5.89
8500
8000
7500
7000
6500

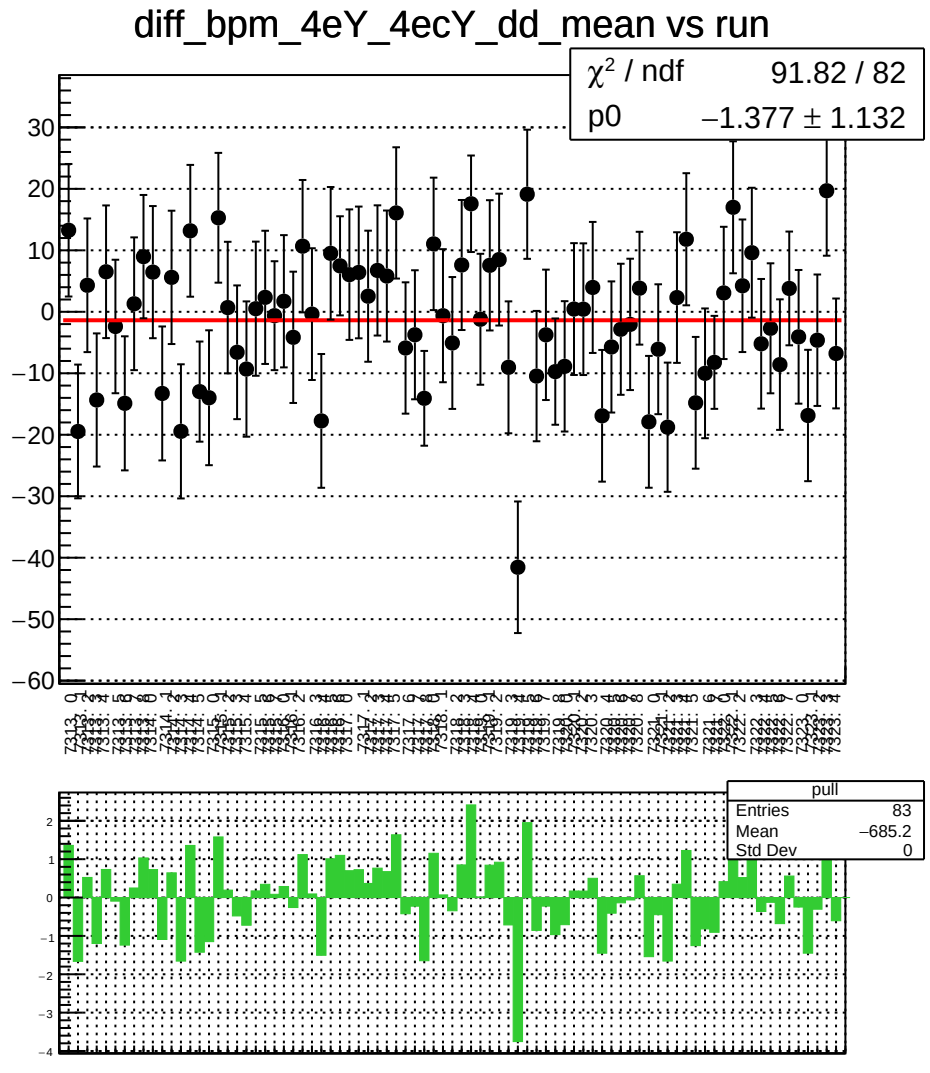

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 79.04 / 82
p0 −1.281± 1.376
pull
Entries 83
Mean 81.32
Std Dev 0

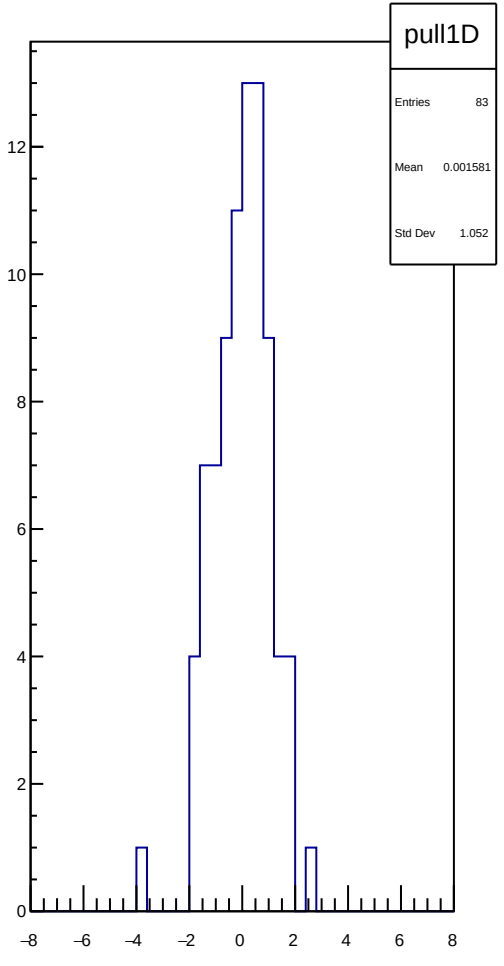

pull1D
Entries 83
Mean 0.01222
Std Dev 0.9758

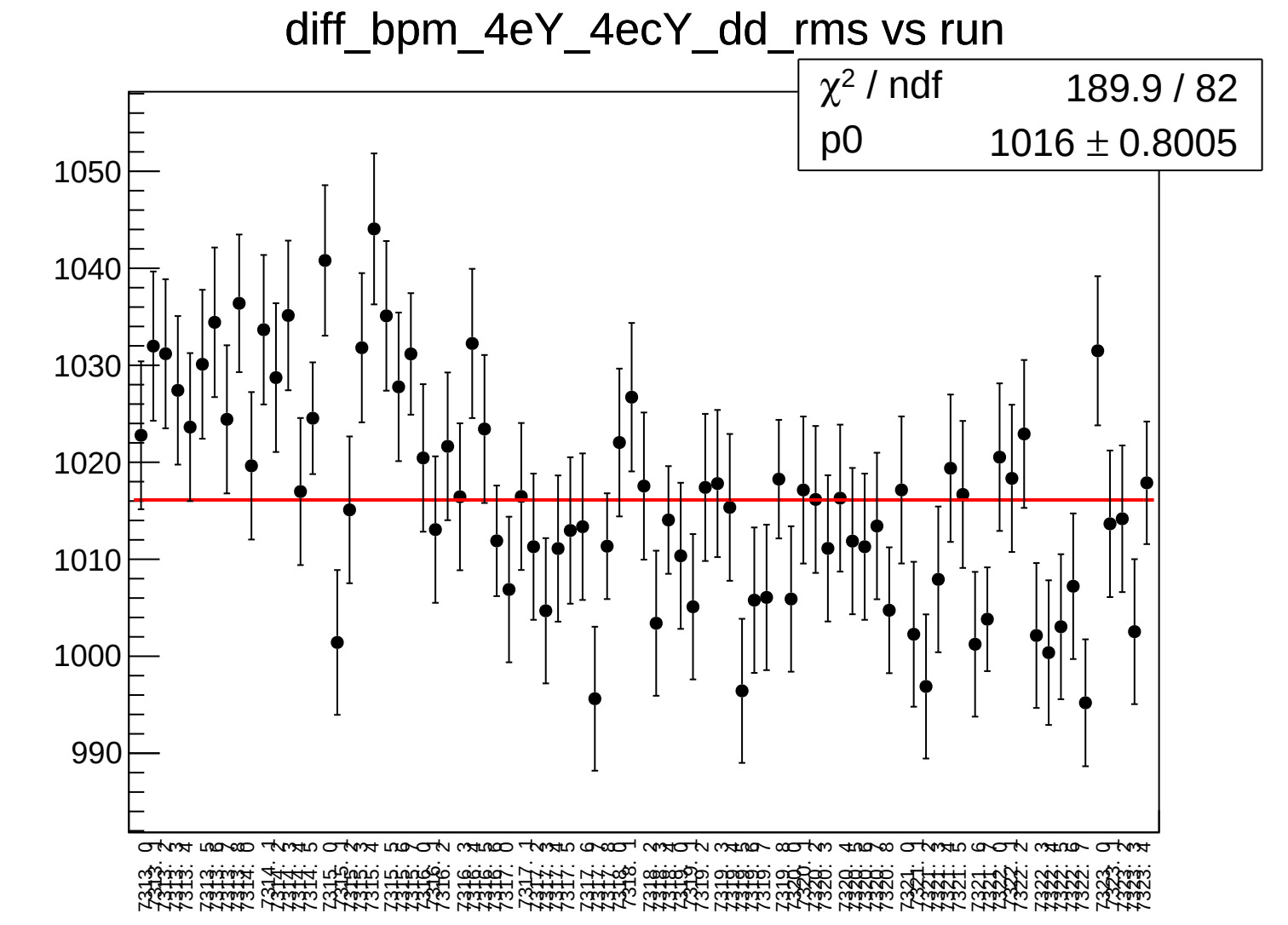

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1328 / 82
p0 1235 ± 0.9732
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

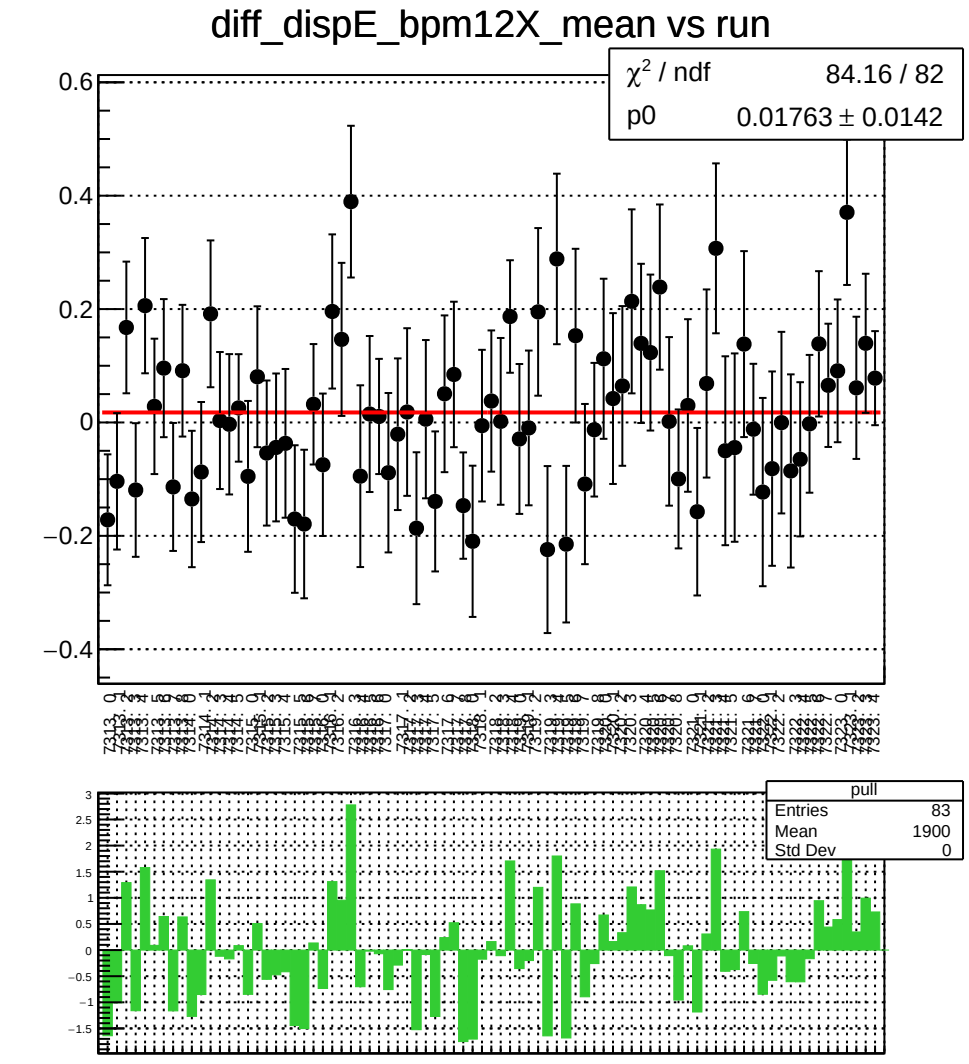

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 65.67 / 82
p0 −1.661 ± 8.437
pull
Entries 83
Mean 146
Std Dev 0
pull1D
Entries 83
Mean −0.02213
Std Dev 0.8892

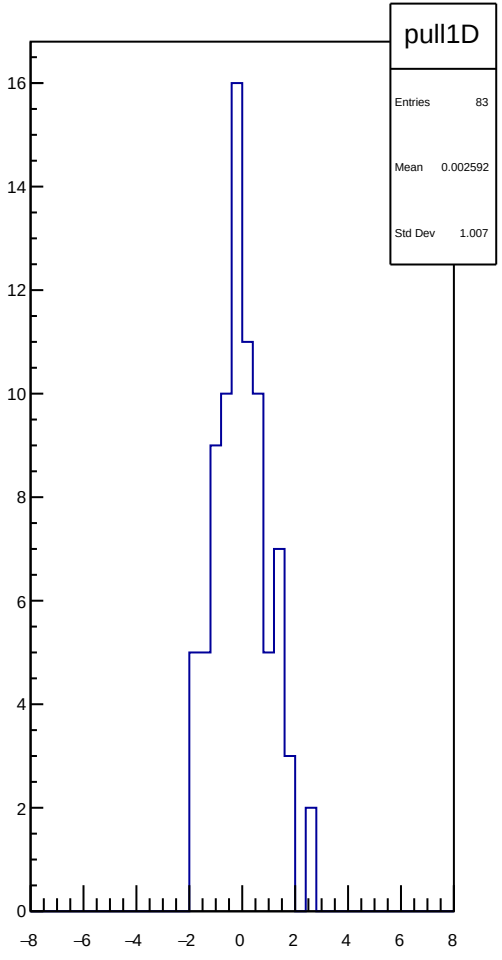

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 7116 / 82
p0 7557 ± 5.966
9000
8500
8000
7500
7000
6500

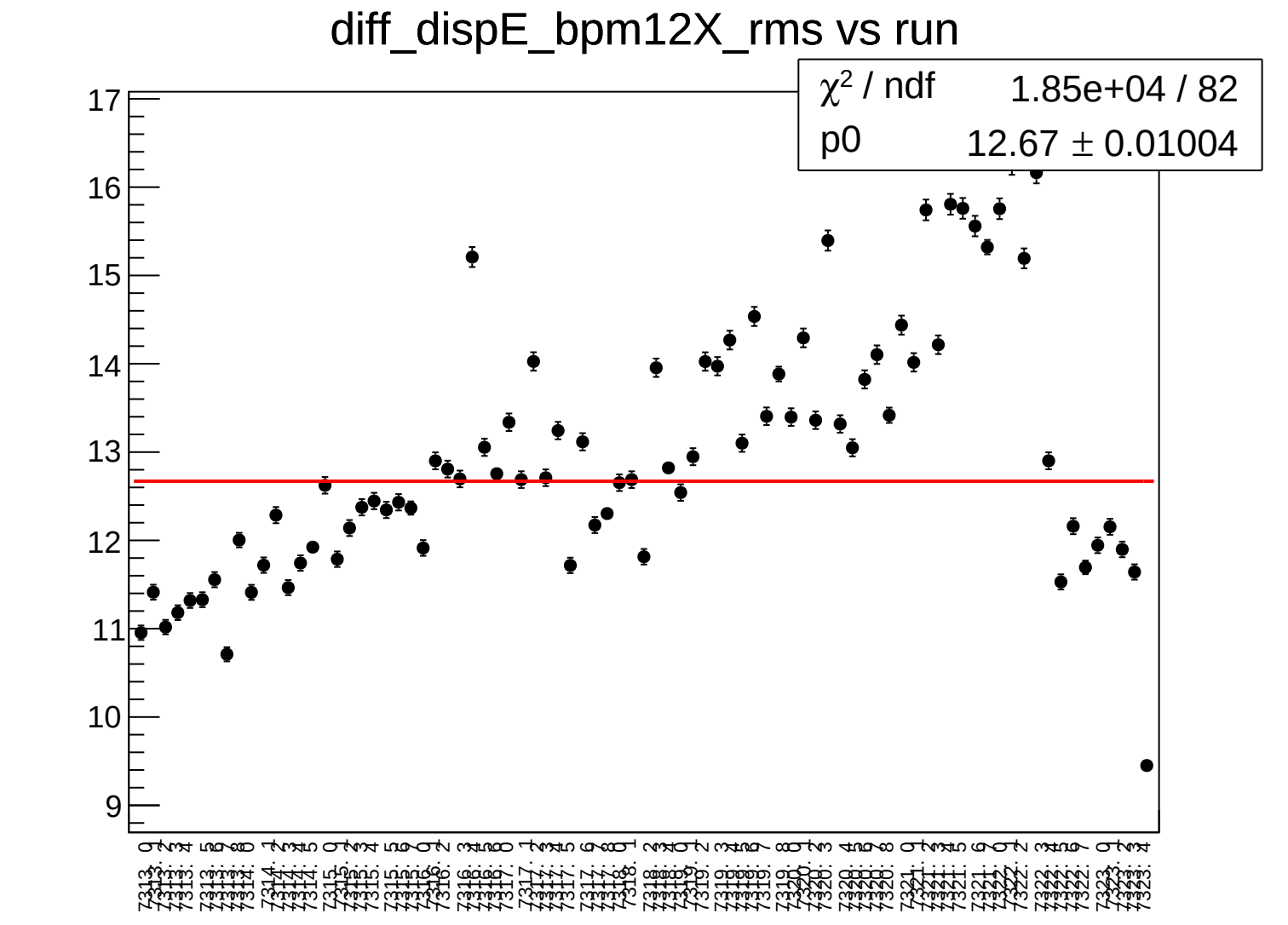

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 91.82 / 82
p0 −1.377 ± 1.132
pull
Entries 83
Mean −685.2
Std Dev 0

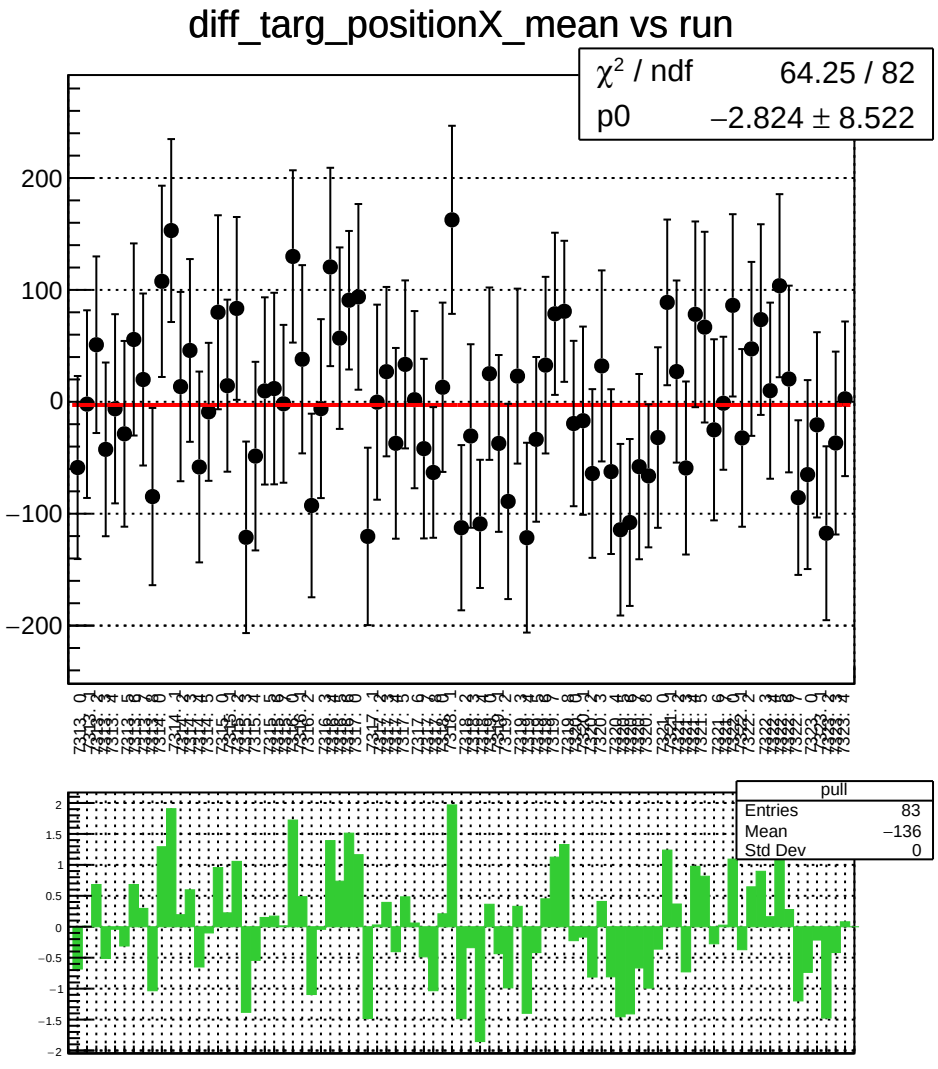

pull1D
Entries 83
Mean 0.001581
Std Dev 1.052

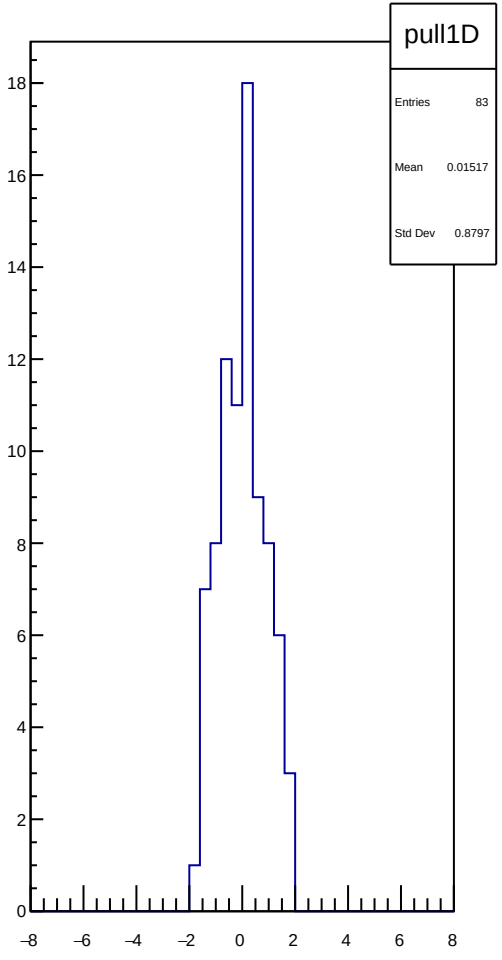

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 189.9 / 82
p0 1016 ± 0.8005
1050
1040
1030
1020
1010
1000
990

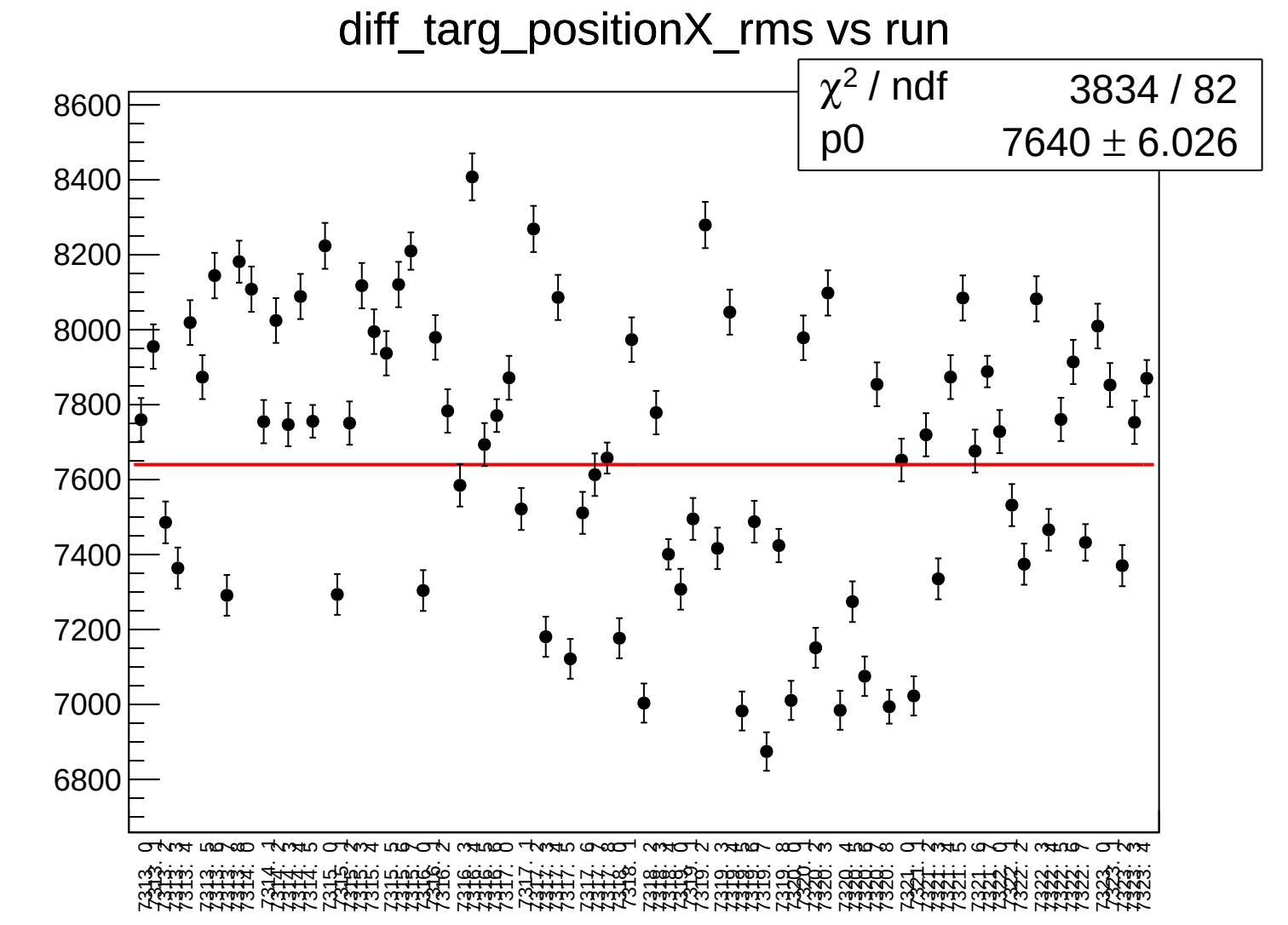

diff_dispE_bpm12X_mean vs run
χ² / ndf 84.16 / 82
p0 0.01763 ± 0.0142
pull
Entries 83
Mean 1900
Std Dev 0

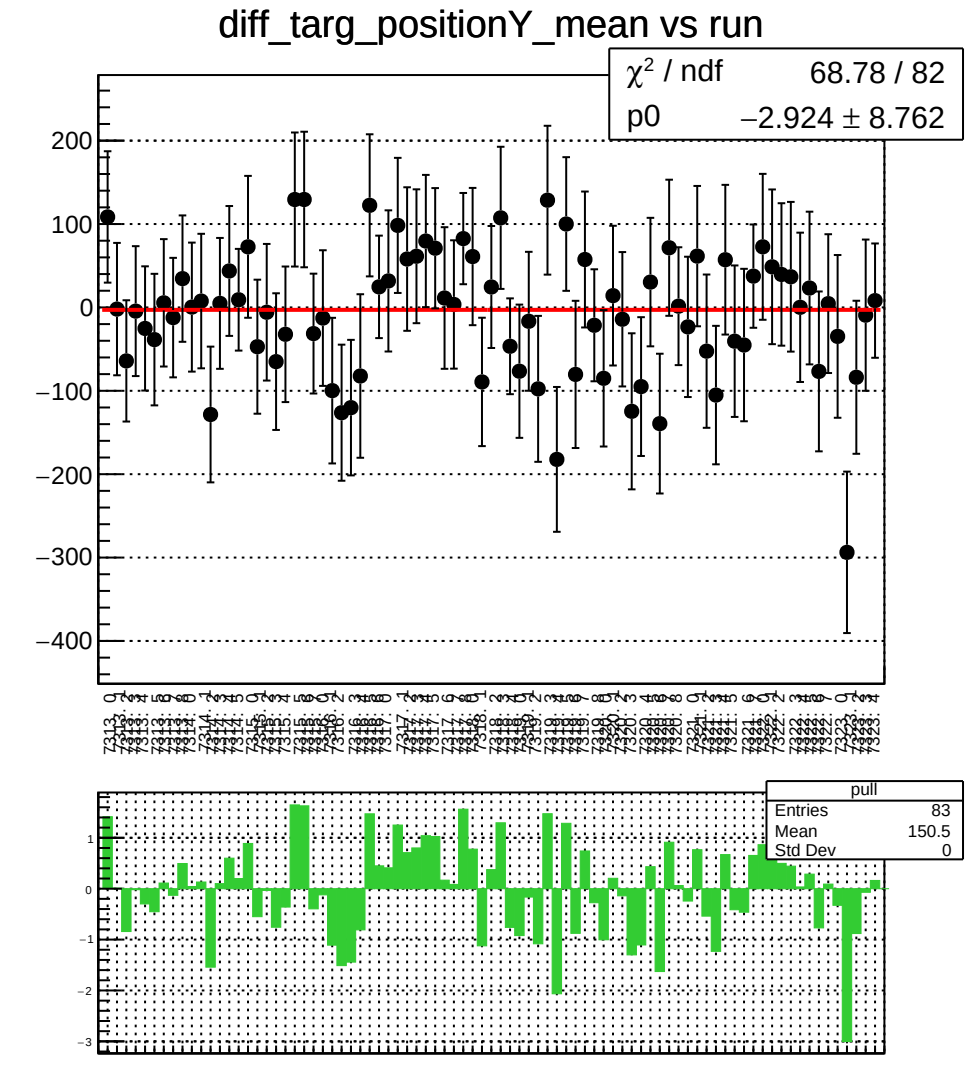

pull1D
Entries 83
Mean 0.002592
Std Dev 1.007

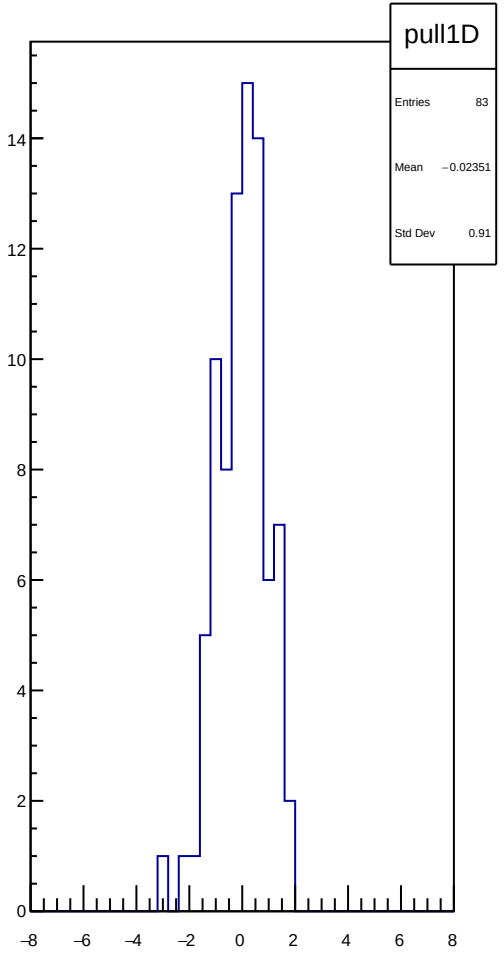

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.85e+04 / 82
p0 12.67 ± 0.01004
17
16
15
14
13
12
11
10
9

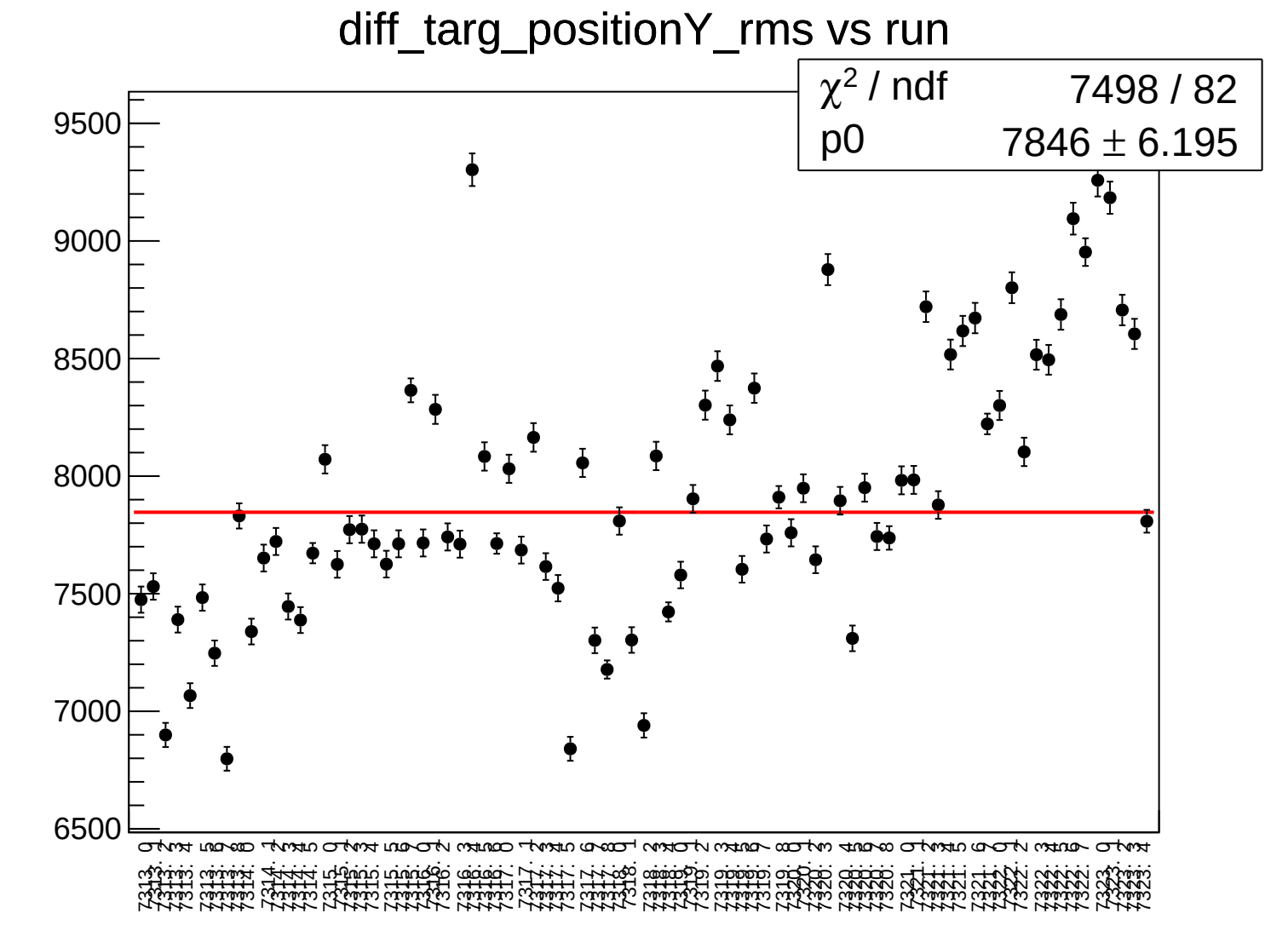

diff_targ_positionX_mean vs run
χ² / ndf 64.25 / 82
p0 −2.824 ± 8.522
pull
Entries 83
Mean −136
Std Dev 0

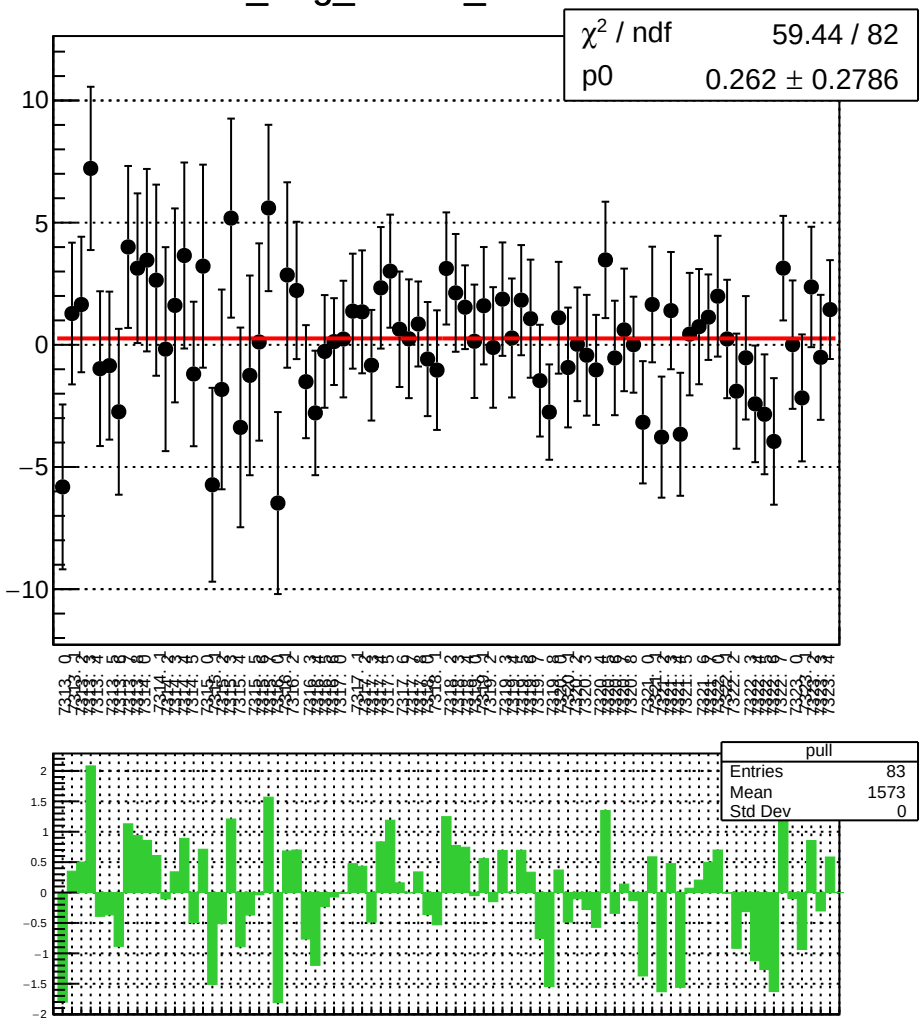

pull1D
Entries 83
Mean 0.01517
Std Dev 0.8797

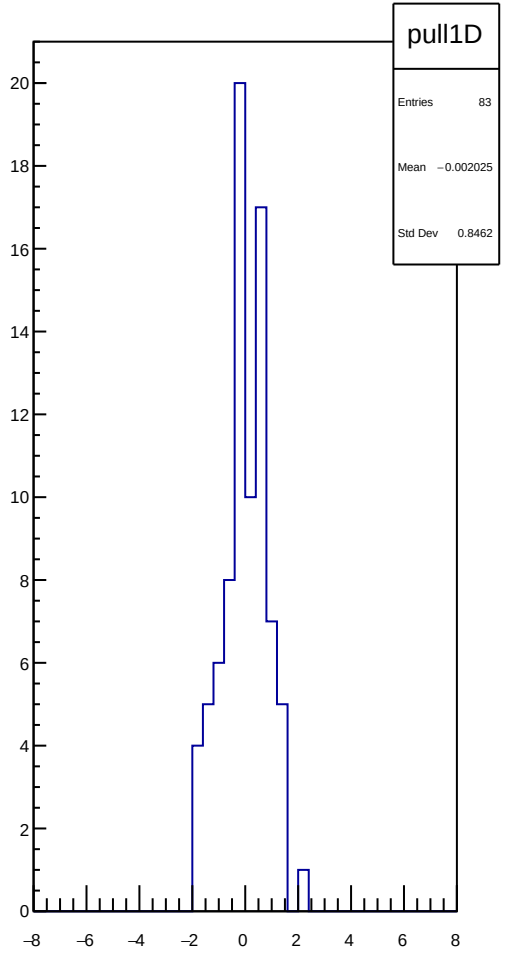

diff_targ_positionX_rms vs run
χ² / ndf 3834 / 82
p0 7640 ± 6.026
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

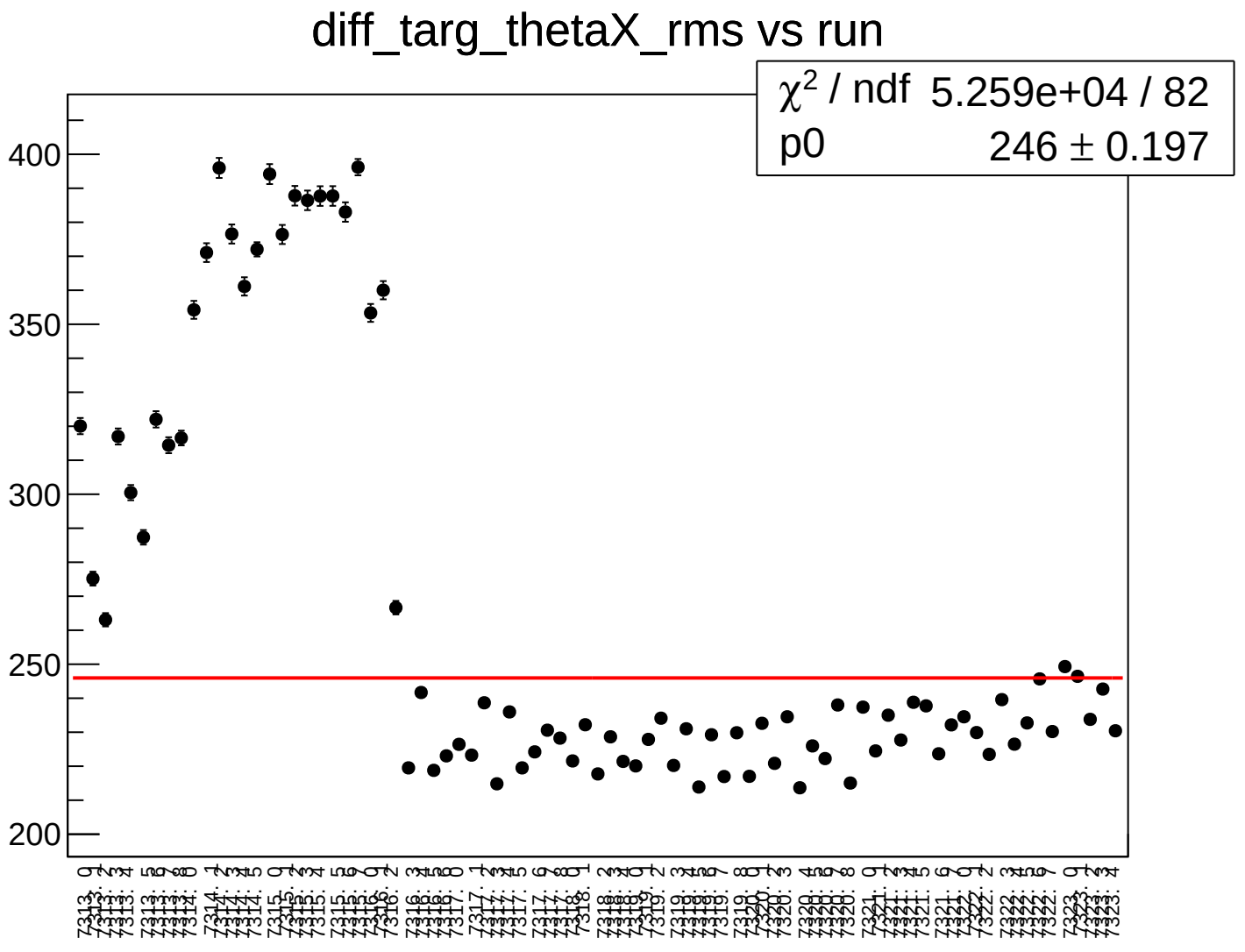

diff_targ_positionY_mean vs run
χ² / ndf 68.78 / 82
p0 −2.924 ± 8.762
pull
Entries 83
Mean 150.5
Std Dev 0

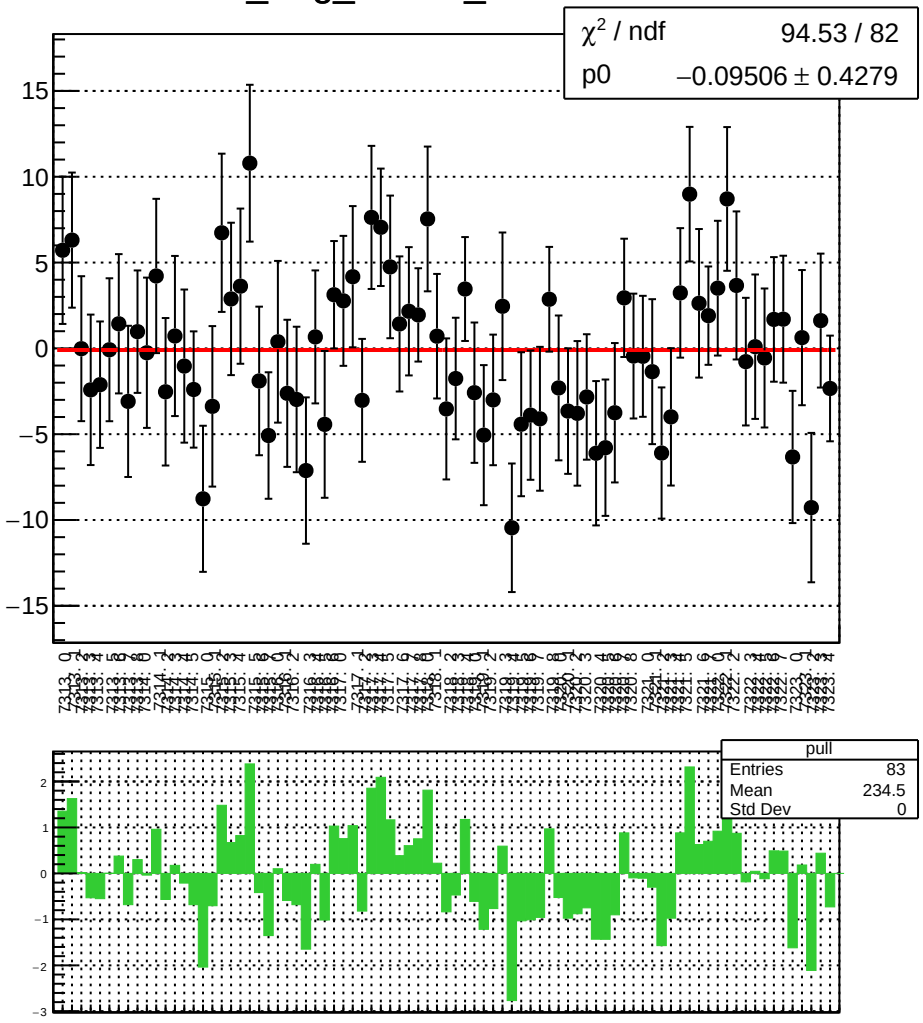

pull1D
Entries 83
Mean −0.02351
Std Dev 0.91

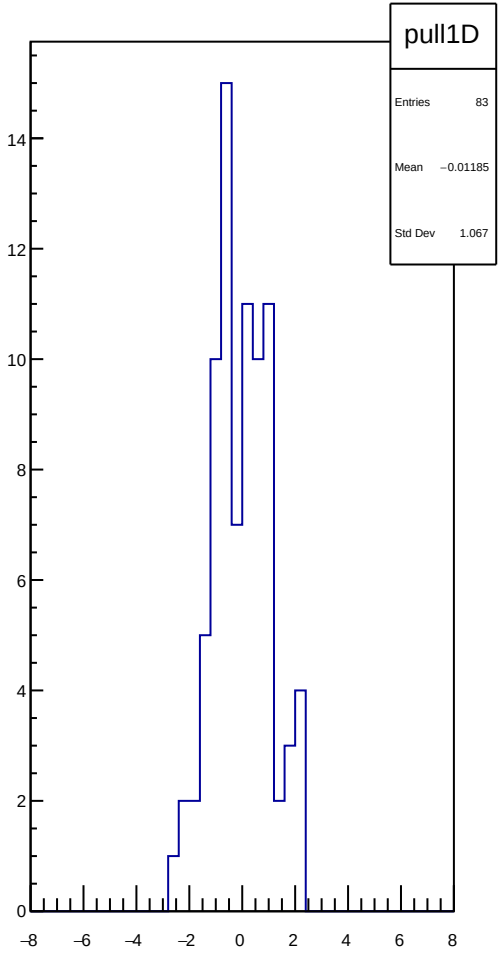

diff_targ_positionY_rms vs run
χ² / ndf 7498 / 82
p0 7846 ± 6.195
9500
9000
8500
8000
7500
7000
6500

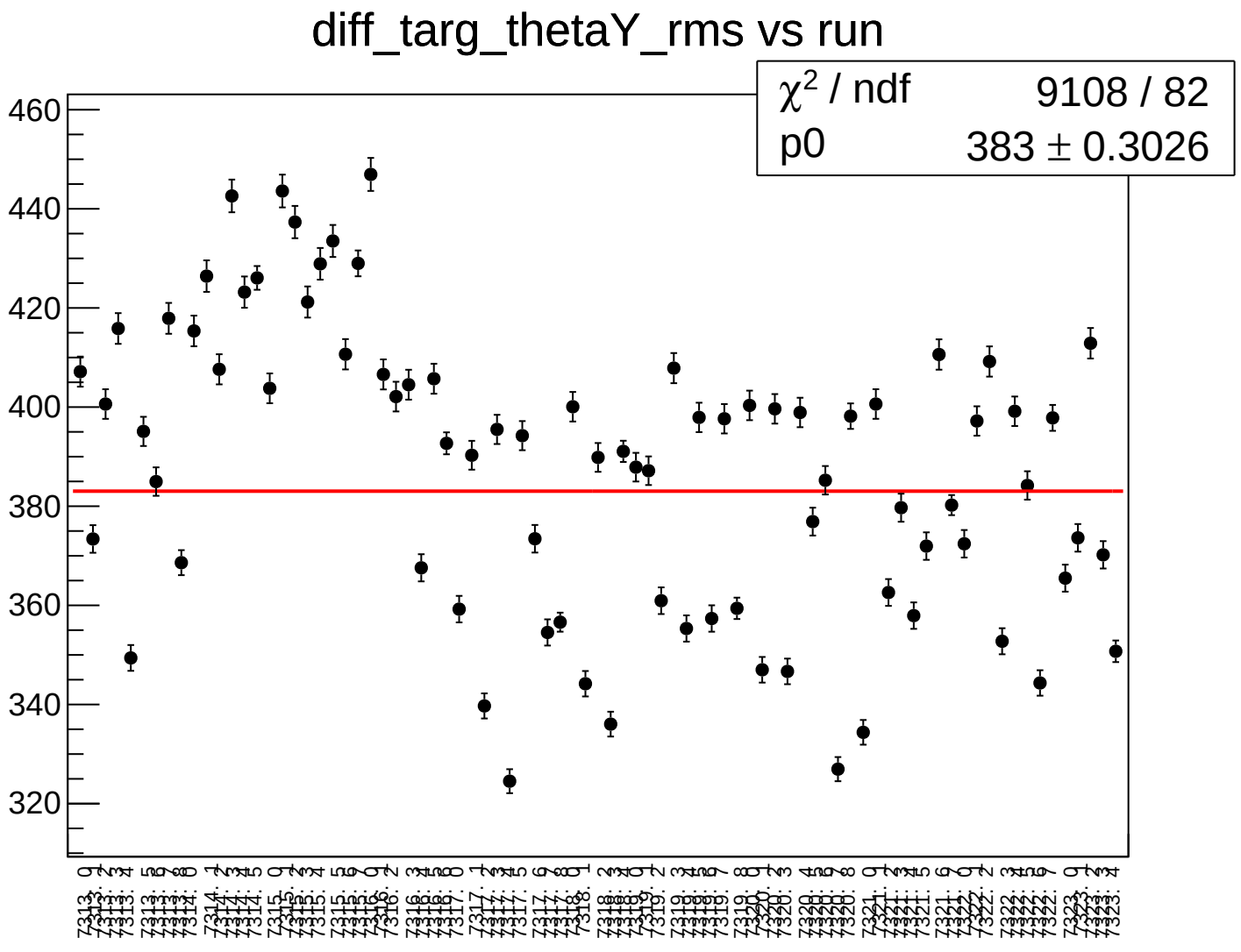

diff_targ_thetaX_mean vs run
χ² / ndf 59.44 / 82
p0 0.262 ± 0.2786
pull
Entries 83
Mean 1573
Std Dev 0

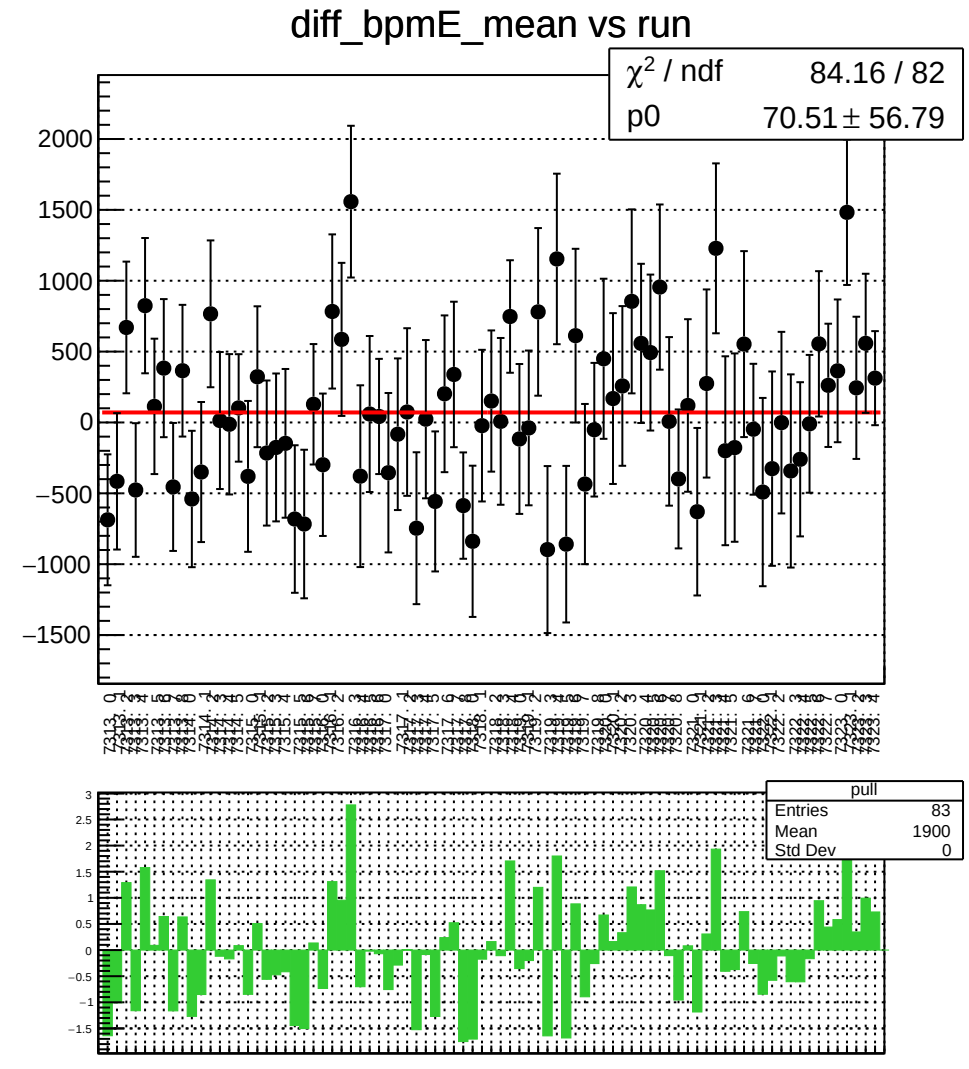

pull1D
Entries 83
Mean −0.002025
Std Dev 0.8462

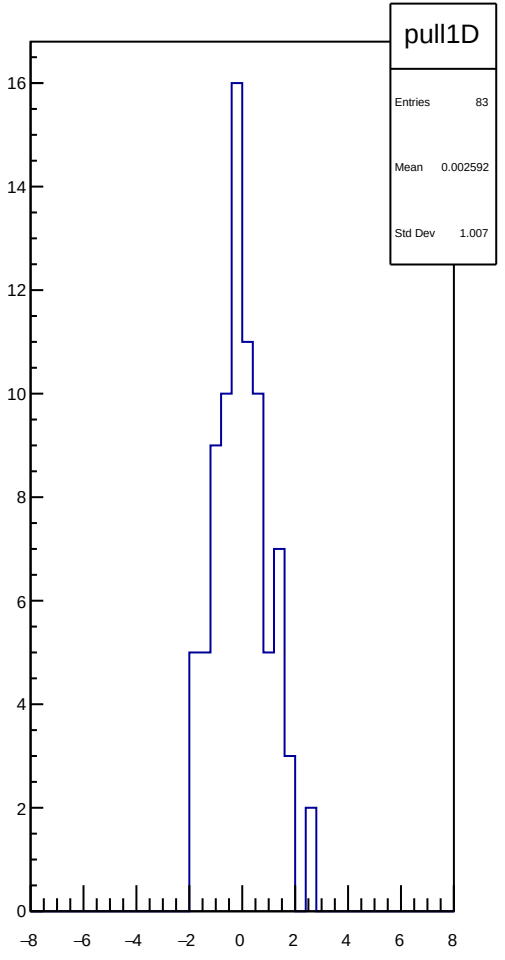

diff_targ_thetaX_rms vs run
χ^2 / ndf 5.259e+04 / 82
p0 246 ± 0.197
400
350
300
250
200

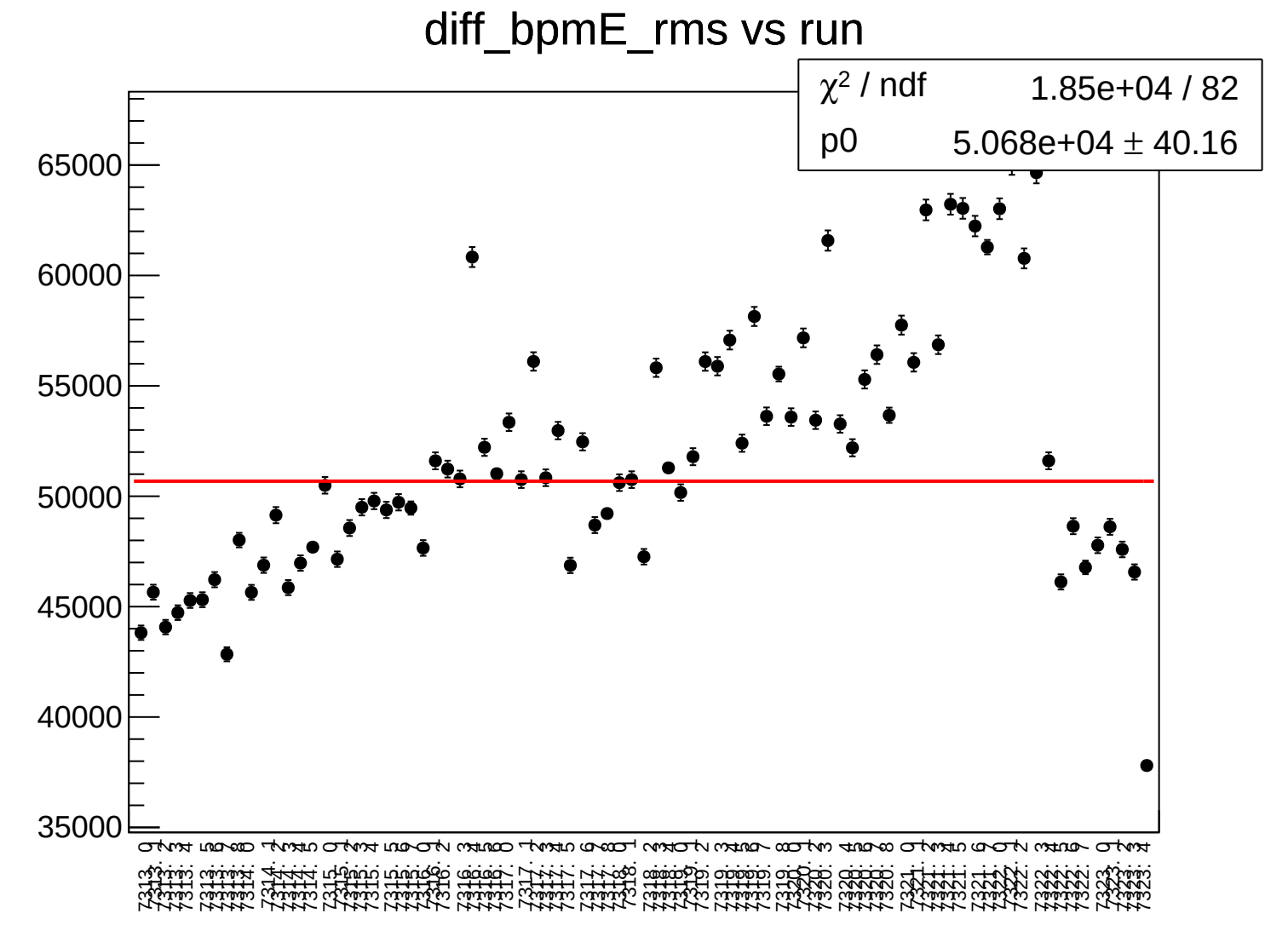

diff_targ_thetaY_mean vs run
χ² / ndf 94.53 / 82
p0 −0.09506 ± 0.4279
pull
Entries 83
Mean 234.5
Std Dev 0

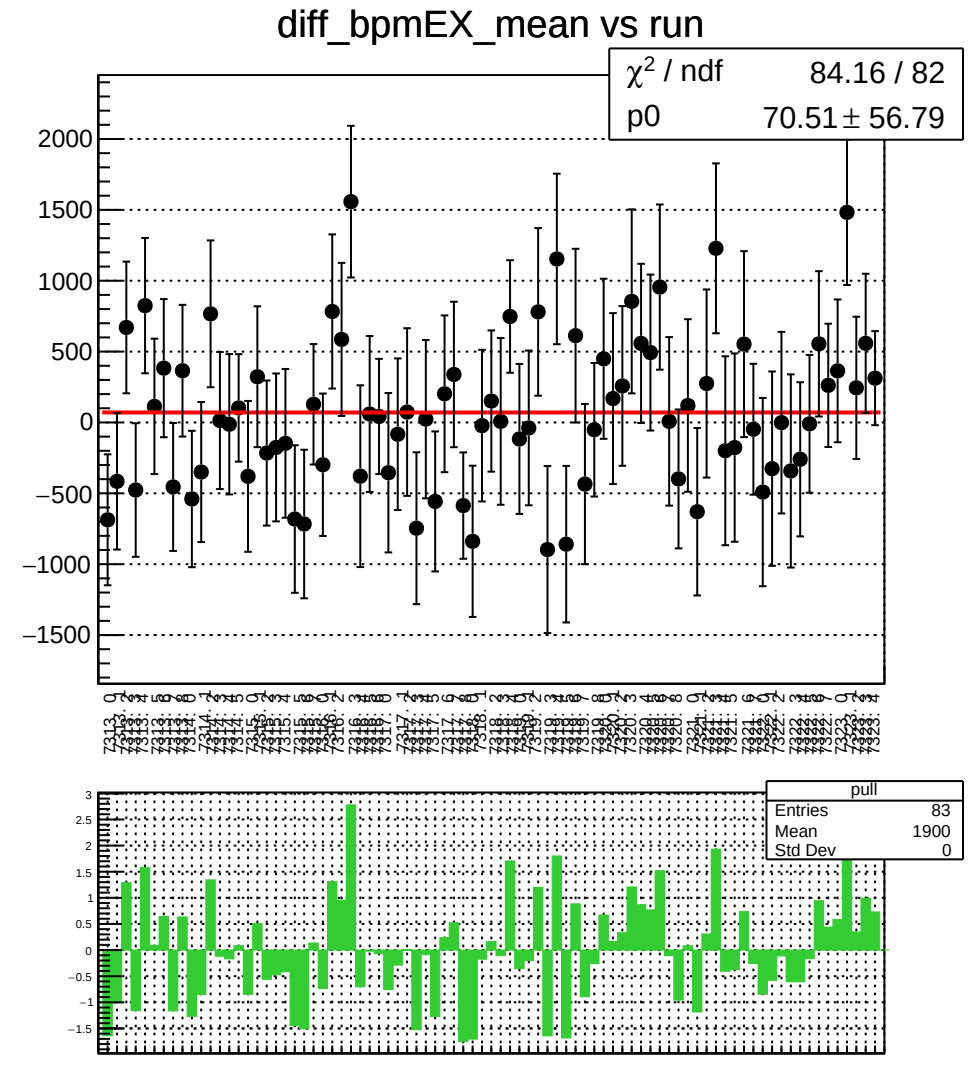

pull1D
Entries 83
Mean −0.01185
Std Dev 1.067

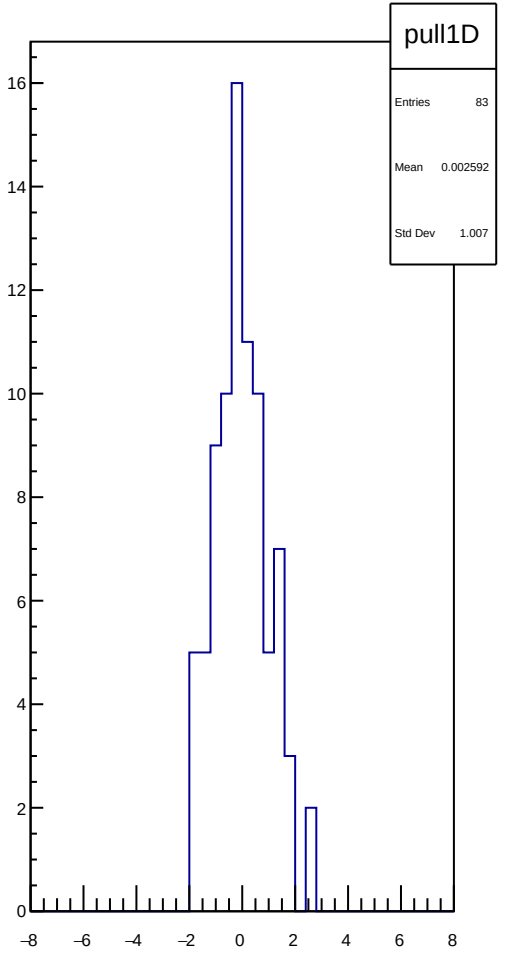

diff_targ_thetaY_rms vs run
χ^2 / ndf 9108 / 82
p0 383 ± 0.3026
460
440
420
400
380
360
340
320

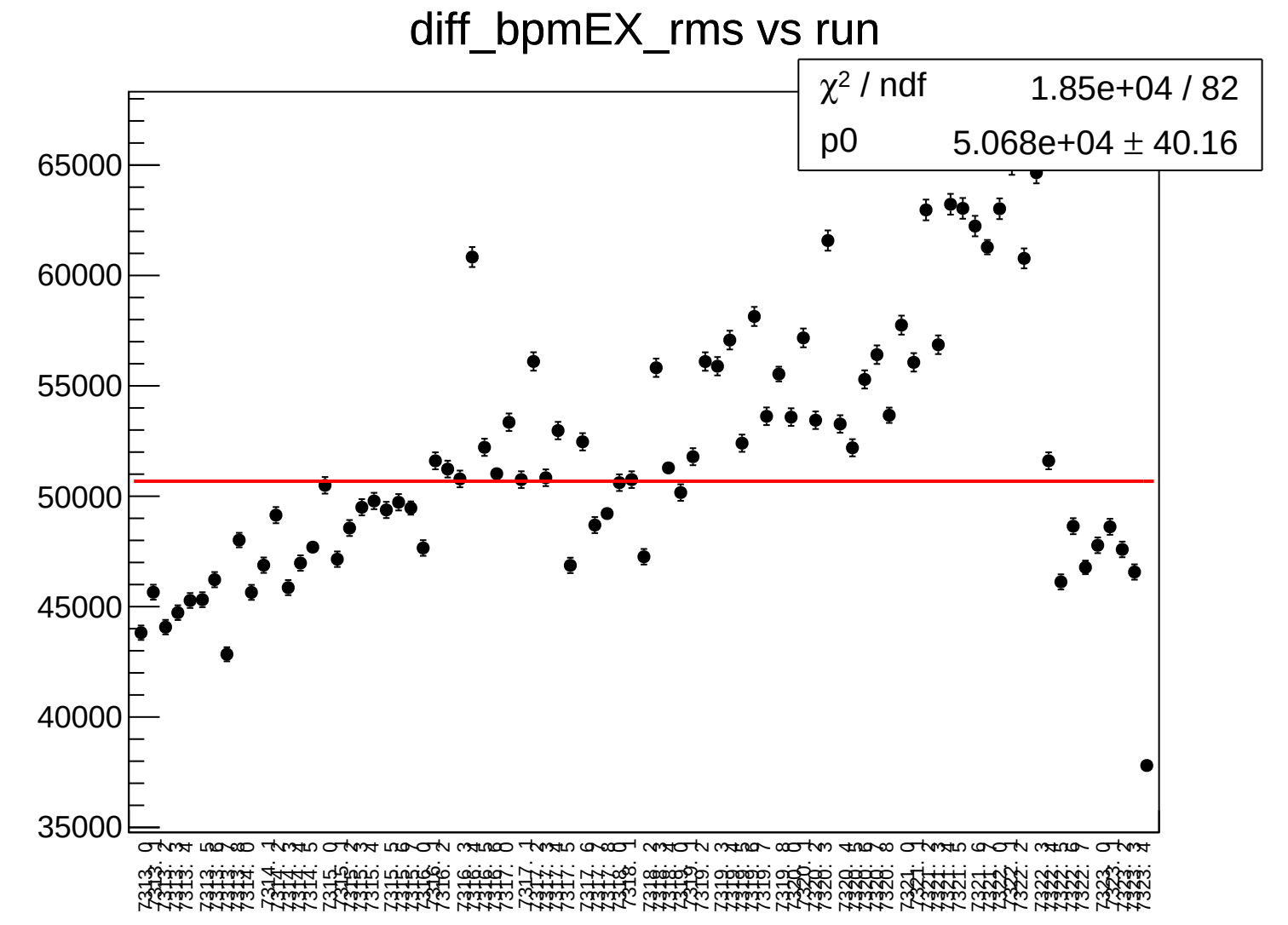

diff_bpmE_mean vs run
χ^2 / ndf 84.16 / 82
p0 70.51 ± 56.79
pull
Entries 83
Mean 1900
Std Dev 0

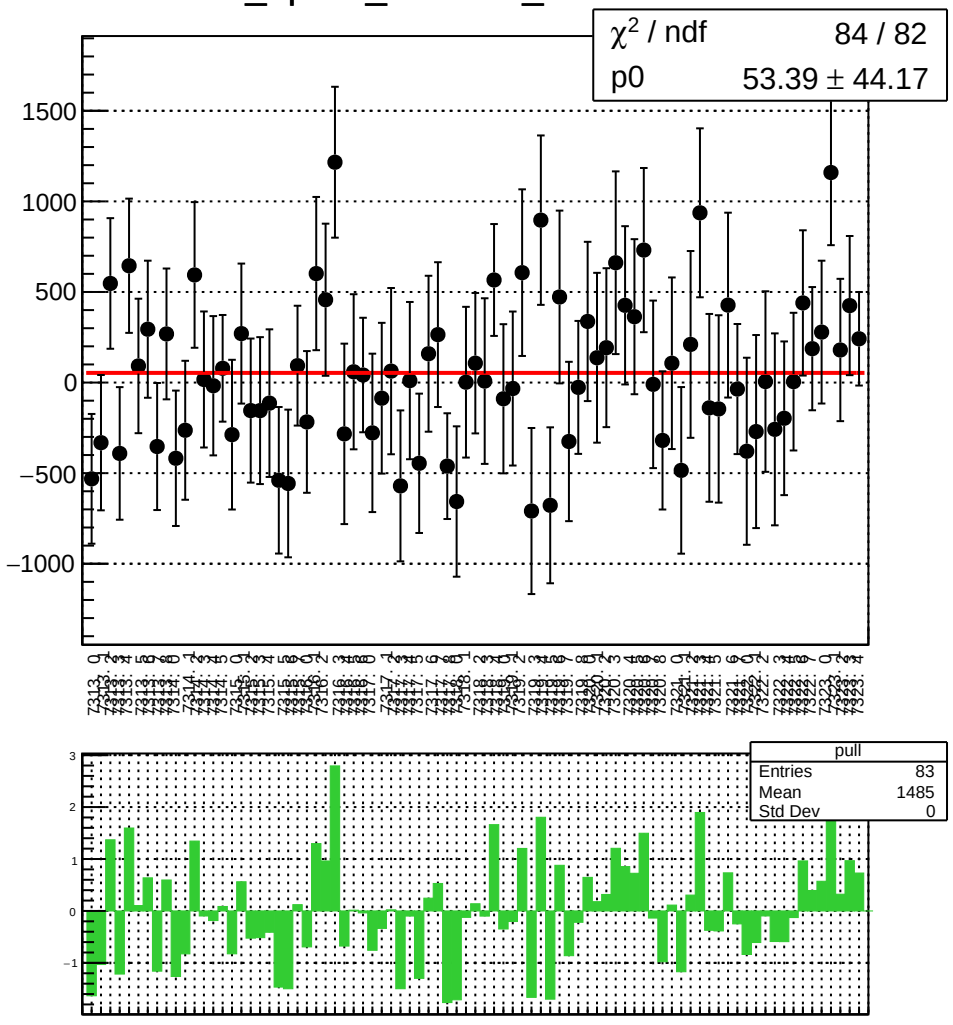

pull1D
Entries 83
Mean 0.002592
Std Dev 1.007

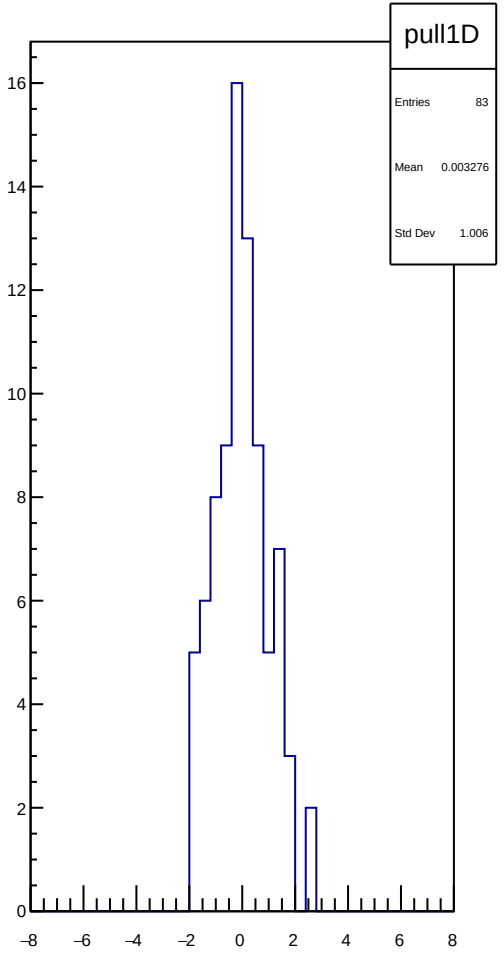

diff_bpmE_rms vs run
χ² / ndf 1.85e+04 / 82
p0 5.068e+04 ± 40.16
65000
60000
55000
50000
45000
40000
35000

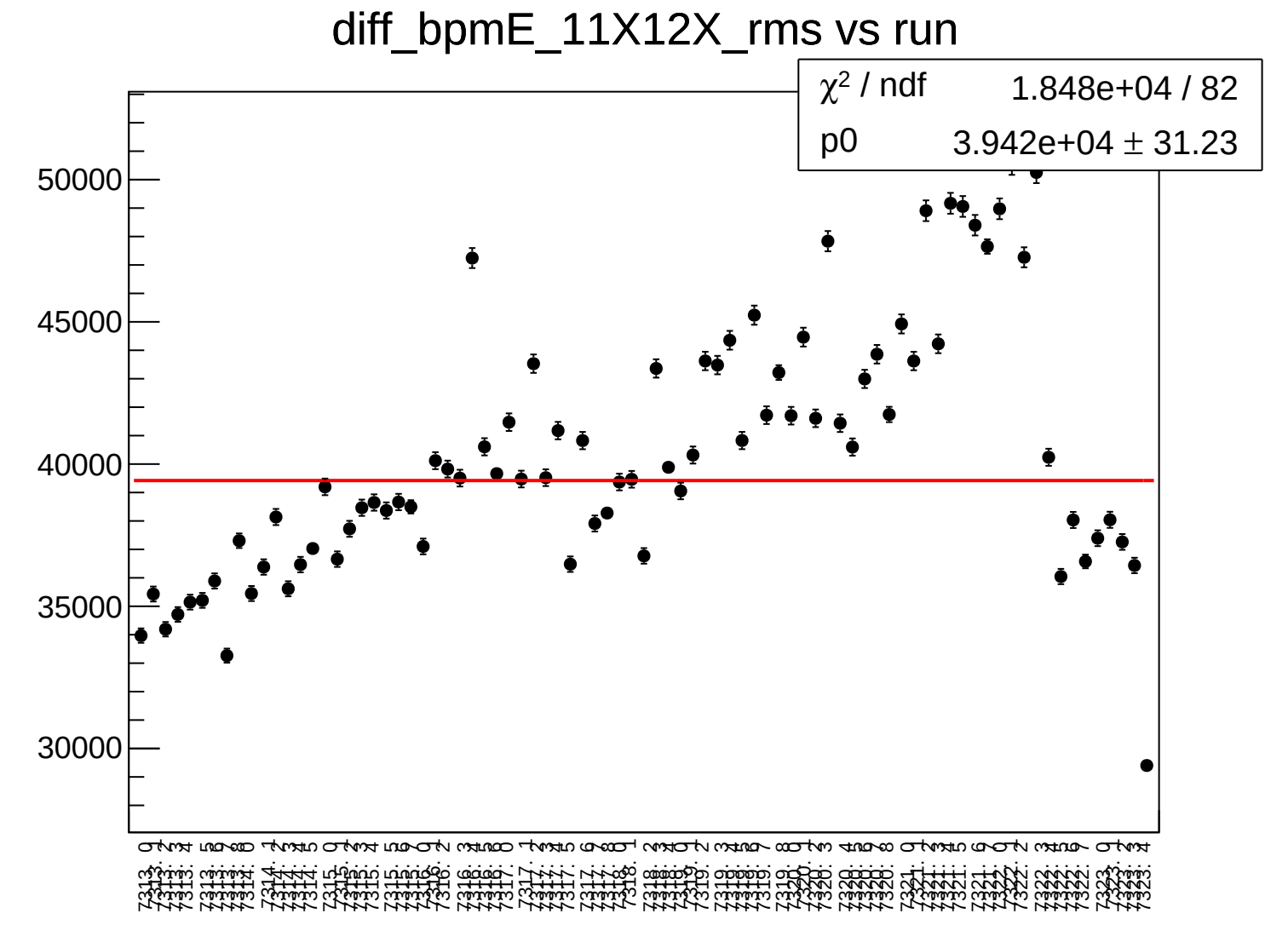

diff_bpmEX_mean vs run
χ^2 / ndf 84.16 / 82
p0 70.51 ± 56.79
pull
Entries 83
Mean 1900
Std Dev 0

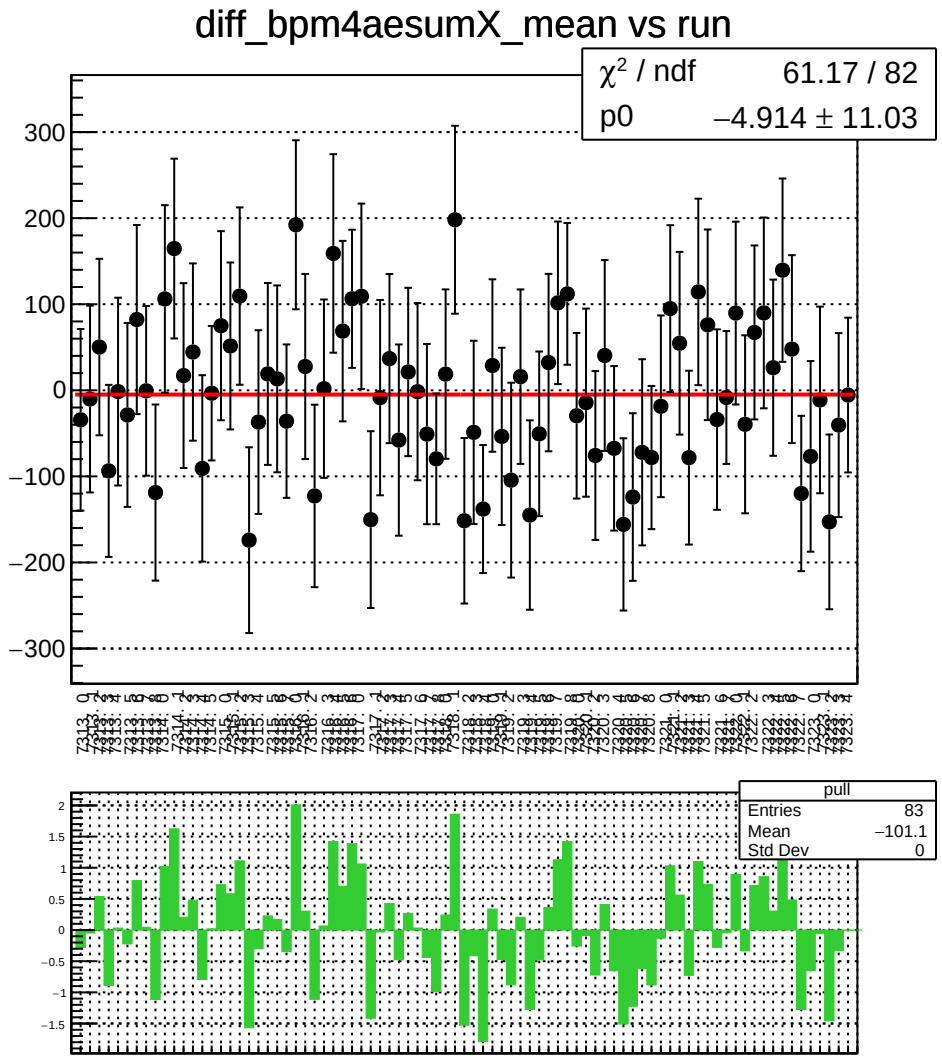

pull1D
Entries 83
Mean 0.002592
Std Dev 1.007

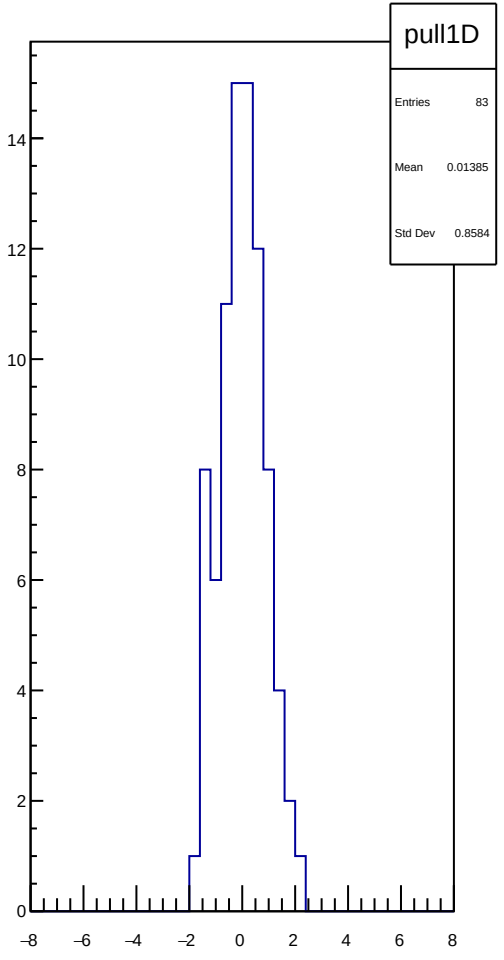

diff_bpmEX_rms vs run
χ² / ndf 1.85e+04 / 82
p0 5.068e+04 ± 40.16
65000
60000
55000
50000
45000
40000
35000

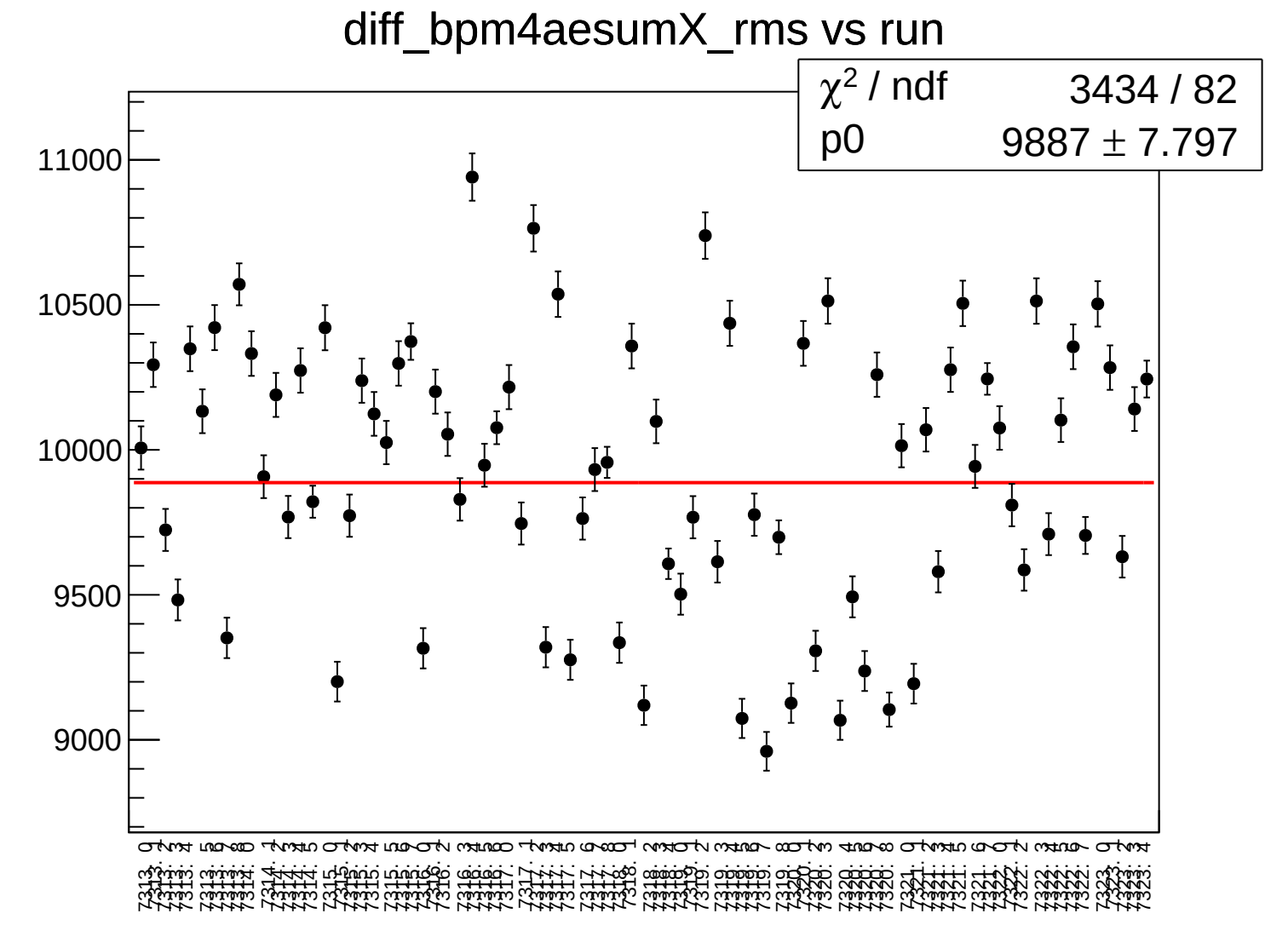

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 84 / 82
p0 53.39 ± 44.17
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean 1485
Std Dev 0
3
2
1
0
−1

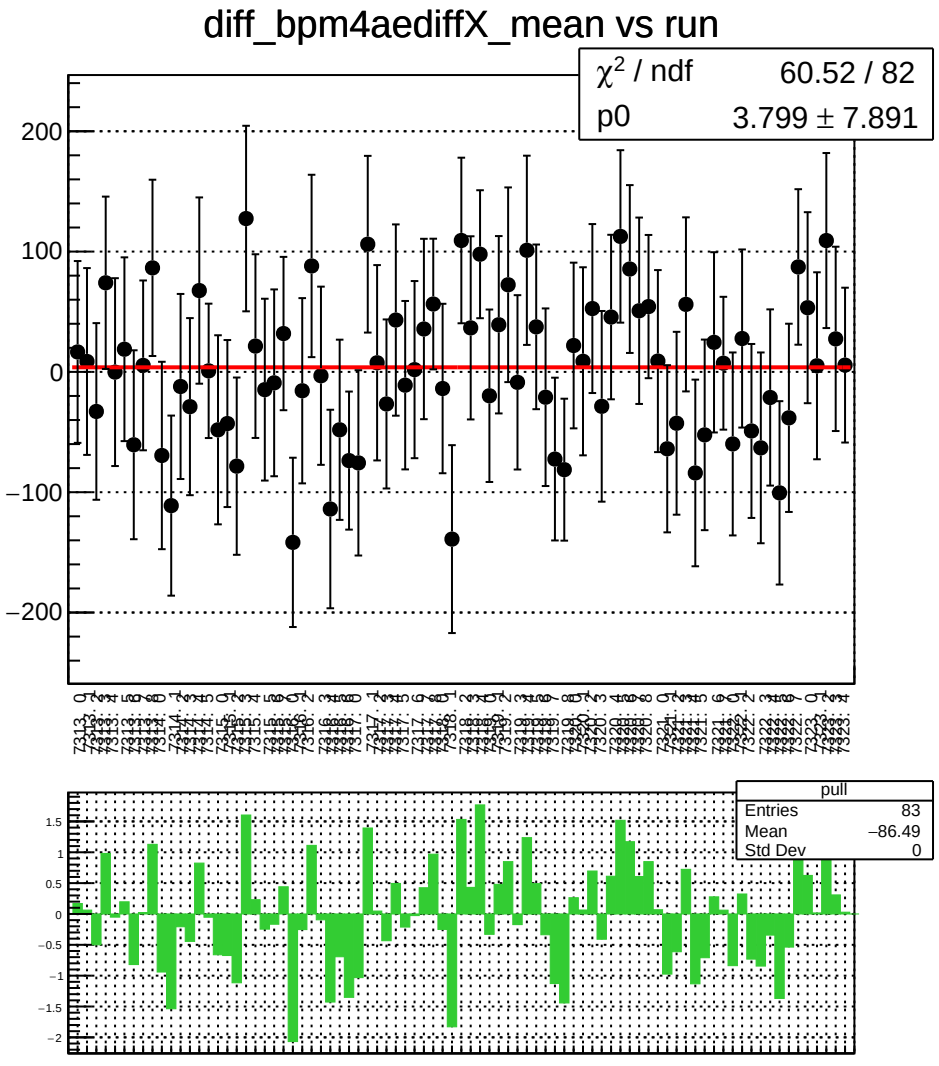

pull1D
Entries 83
Mean 0.003276
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

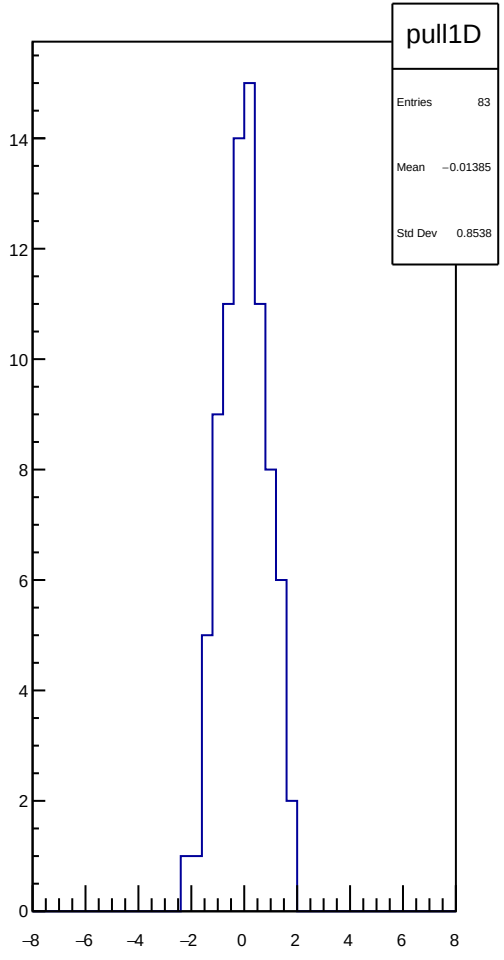

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.848e+04 / 82
p0 3.942e+04 ± 31.23
50000
45000
40000
35000
30000

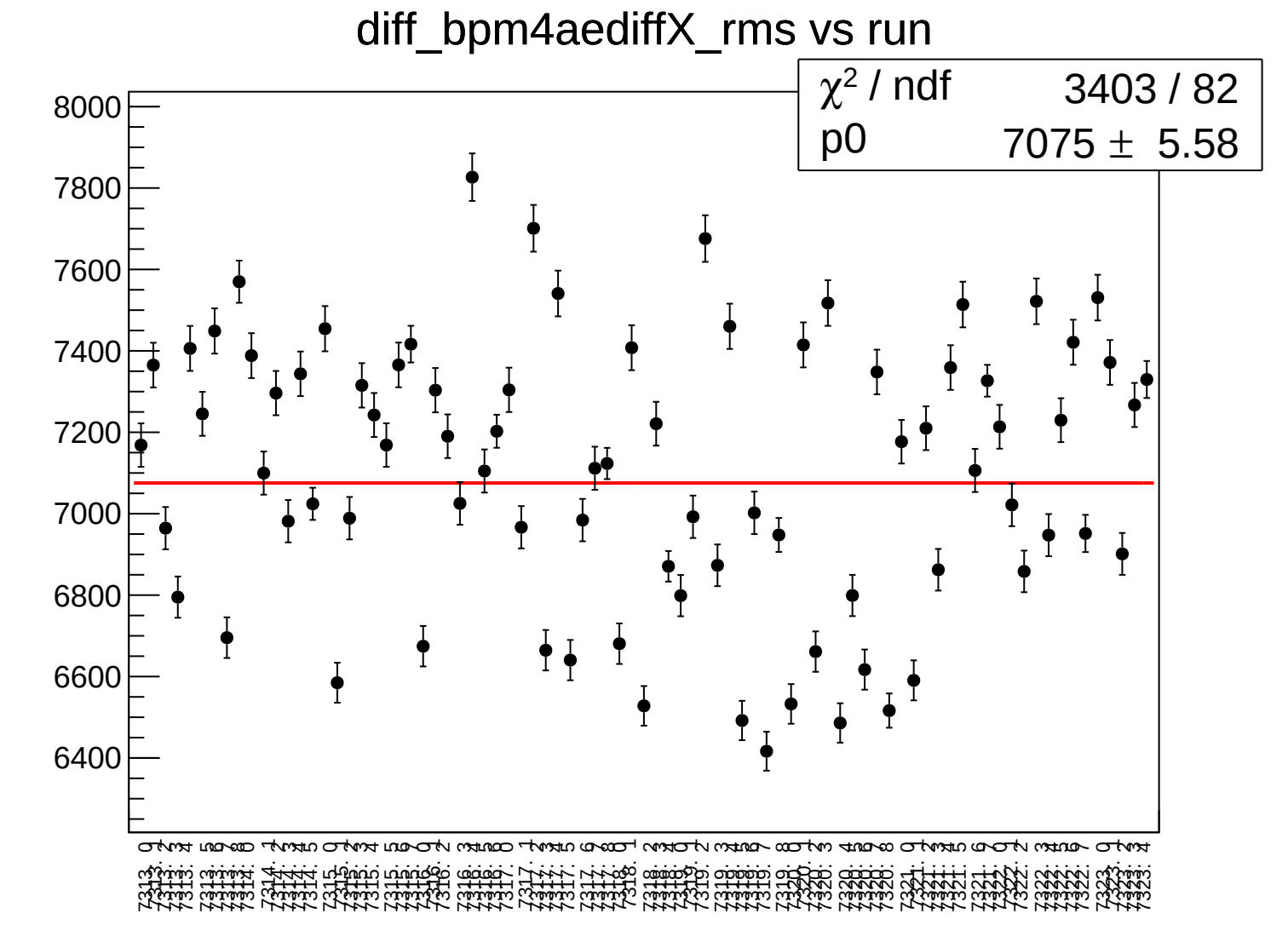

diff_bpm4aesumX_mean vs run
χ² / ndf 61.17 / 82
p0 −4.914 ± 11.03
pull
Entries 83
Mean −101.1
Std Dev 0

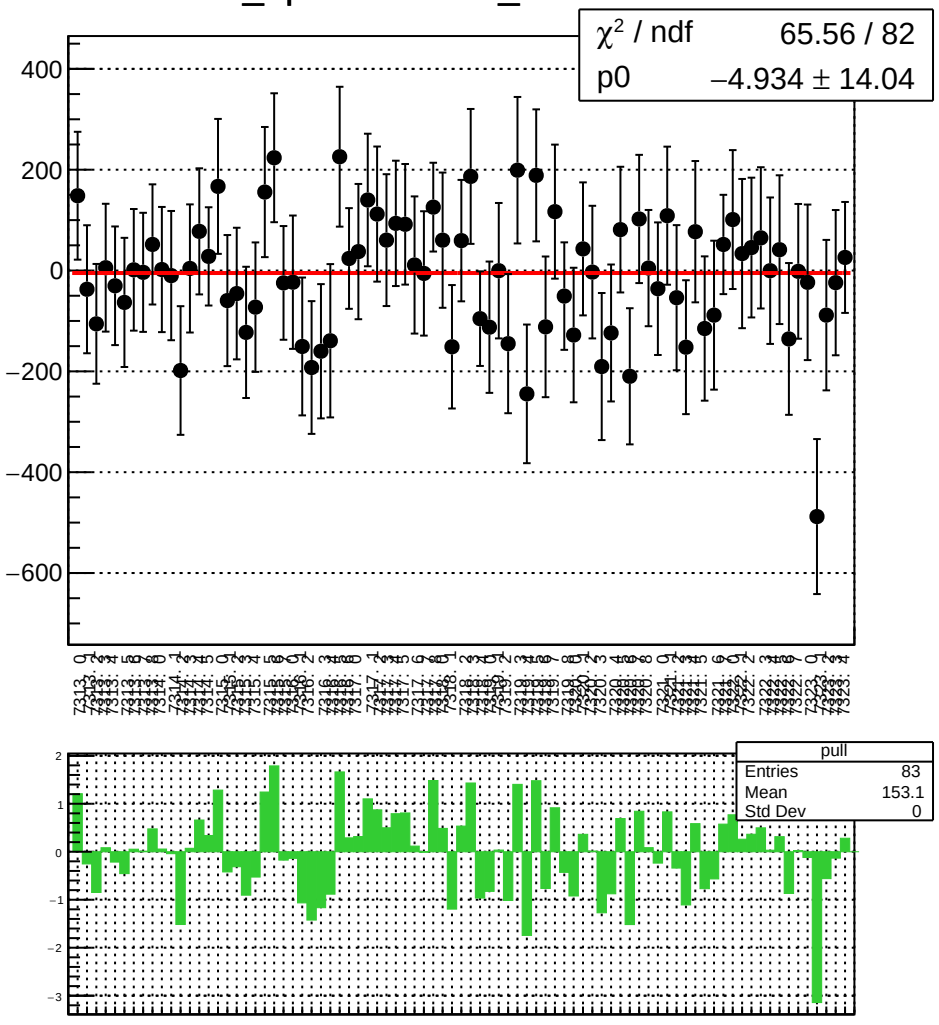

pull1D
Entries 83
Mean 0.01385
Std Dev 0.8584

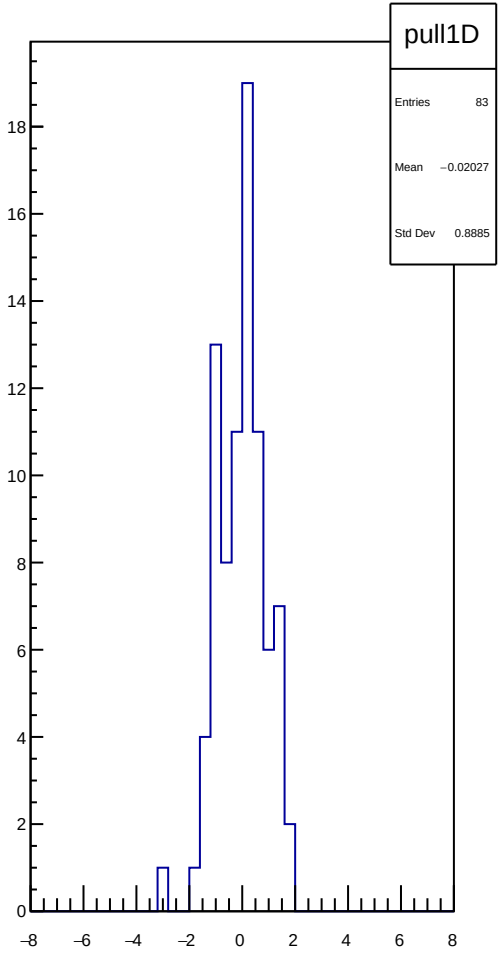

diff_bpm4aesumX_rms vs run
χ² / ndf 3434 / 82
p0 9887 ± 7.797
11000
10500
10000
9500
9000

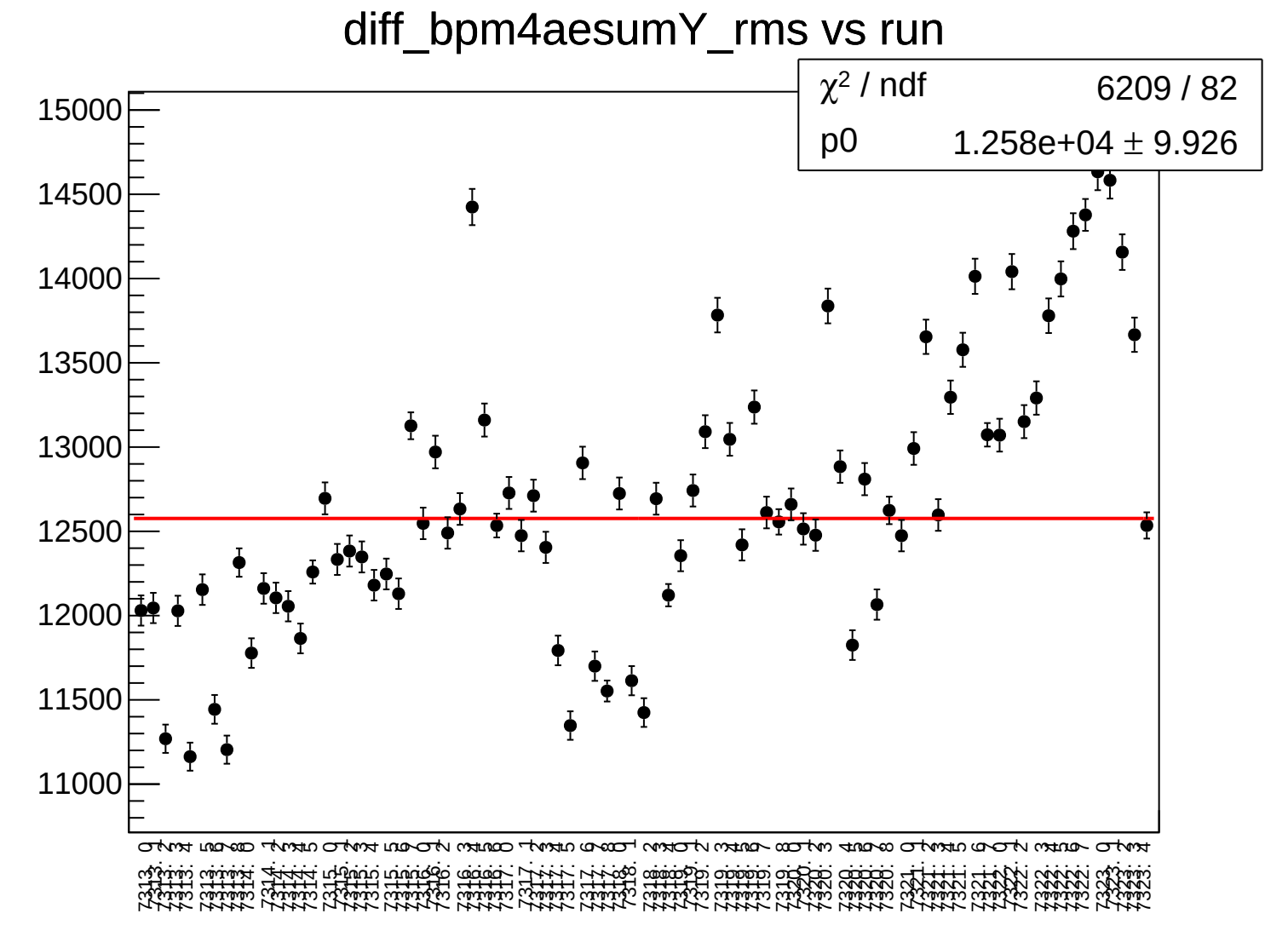

diff_bpm4aediffX_mean vs run
χ^2 / ndf 60.52 / 82
p0 3.799 ± 7.891
200
100
0
−100
−200
pull
Entries 83
Mean −86.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

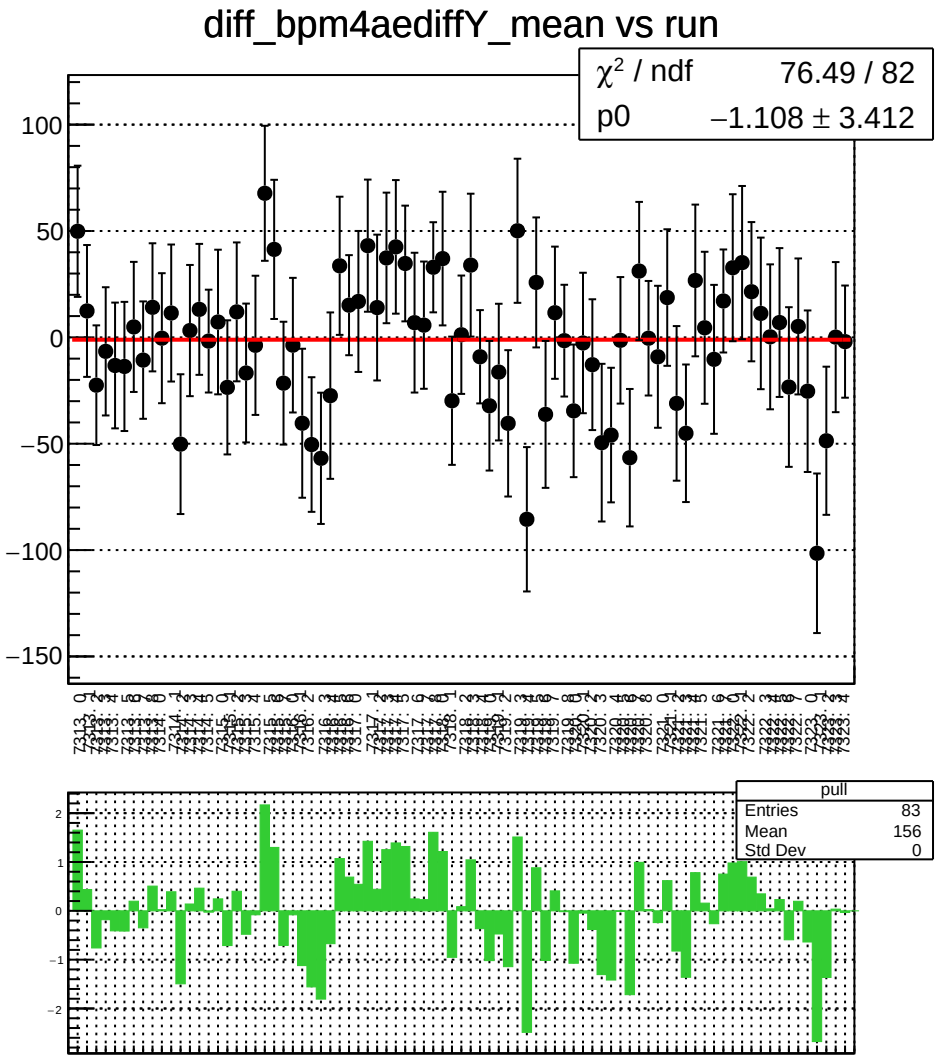

pull1D
Entries 83
Mean −0.01385
Std Dev 0.8538
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

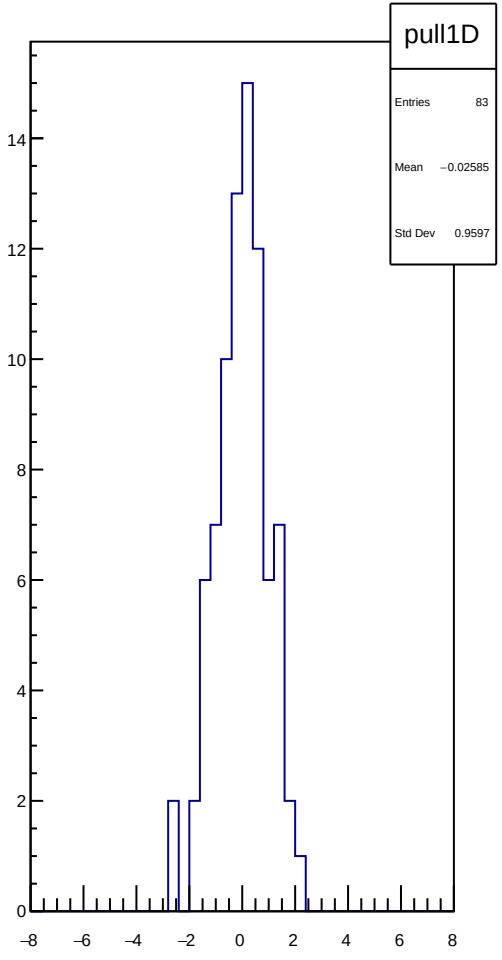

diff_bpm4aediffX_rms vs run
χ² / ndf 3403 / 82
p0 7075 ± 5.58
8000
7800
7600
7400
7200
7000
6800
6600
6400

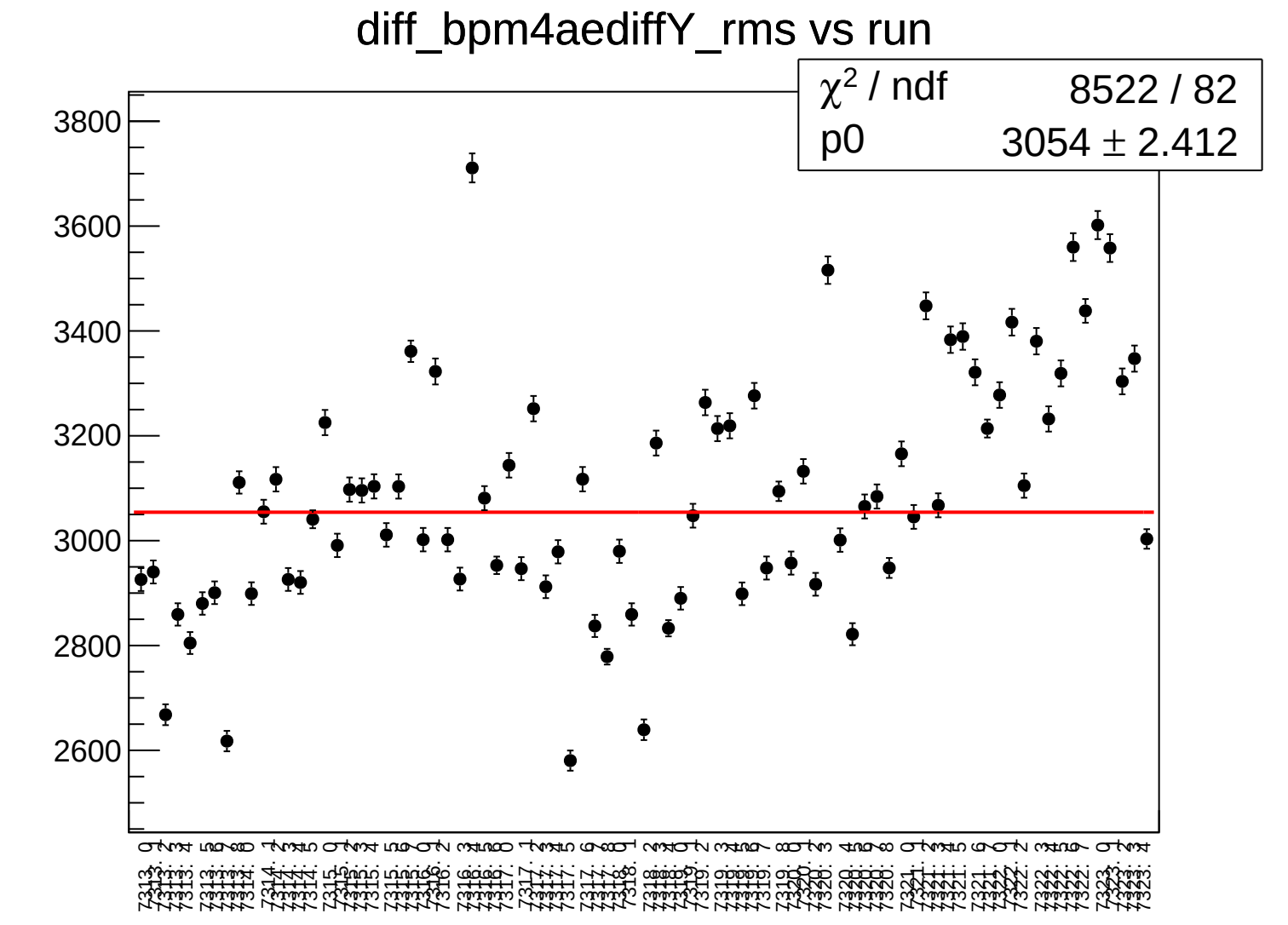

diff_bpm4aesumY_mean vs run
χ² / ndf 65.56 / 82
p0 −4.934 ± 14.04
pull
Entries 83
Mean 153.1
Std Dev 0

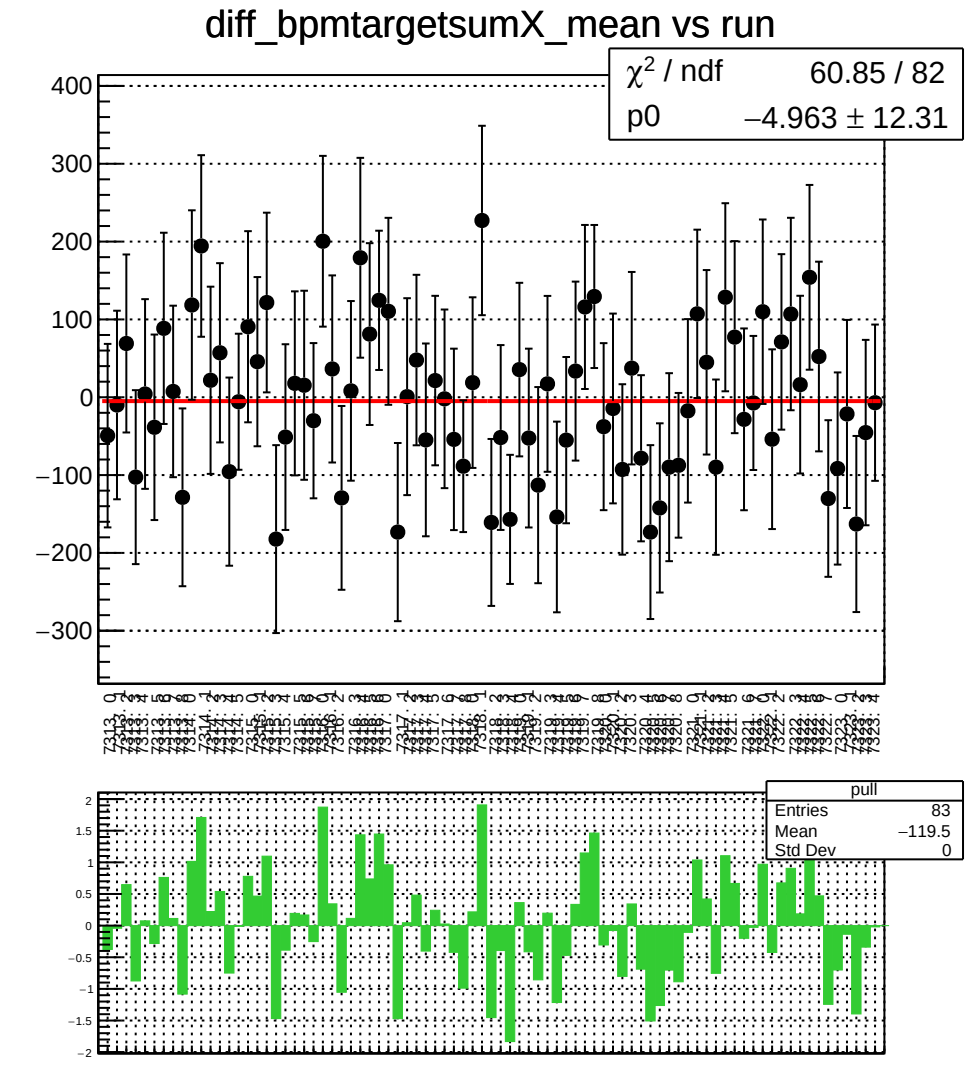

pull1D
Entries 83
Mean −0.02027
Std Dev 0.8885

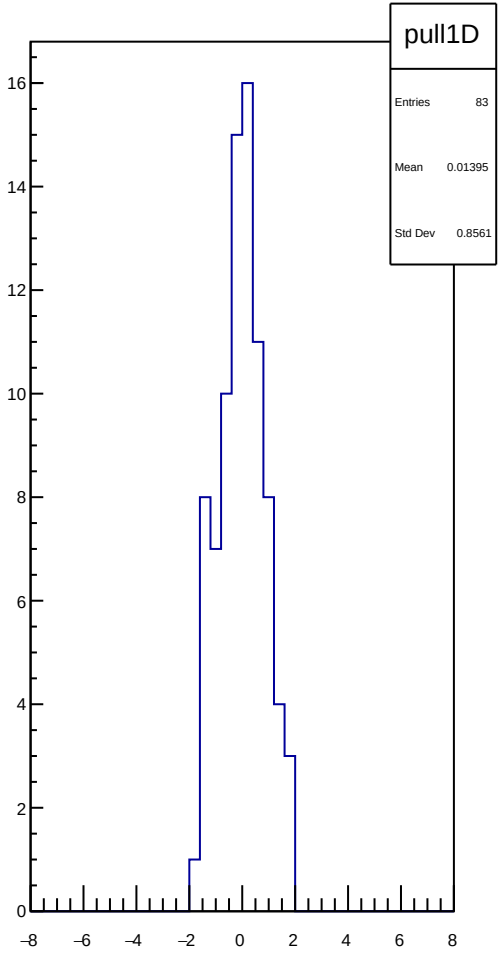

diff_bpm4aesumY_rms vs run
χ² / ndf 6209 / 82
p0 1.258e+04 ± 9.926
15000
14500
14000
13500
13000
12500
12000
11500
11000

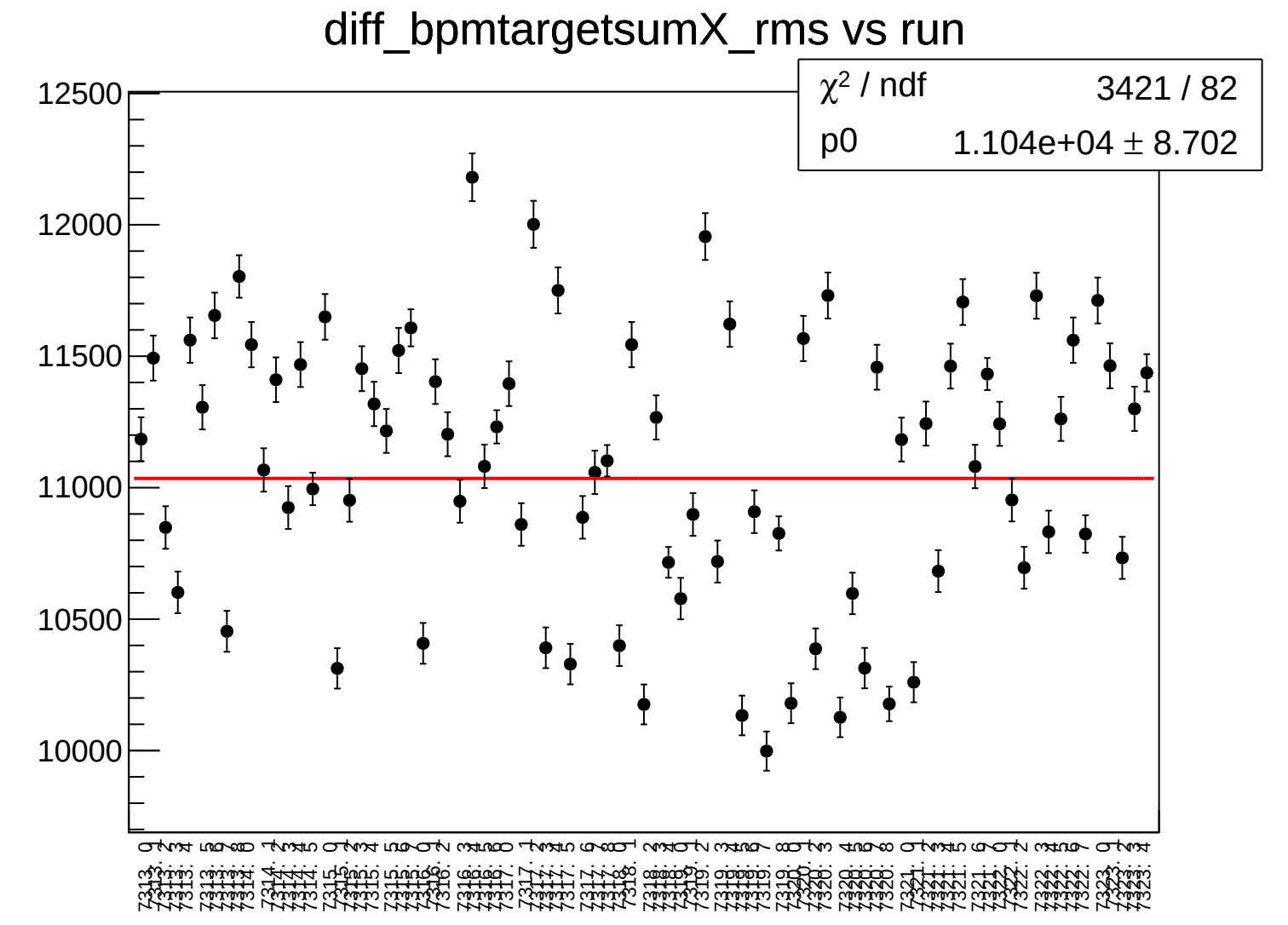

diff_bpm4aediffY_mean vs run
χ² / ndf 76.49 / 82
p0 −1.108 ± 3.412
100
50
0
−50
−100
−150
pull
Entries 83
Mean 156
Std Dev 0
2
1
0
−1
−2

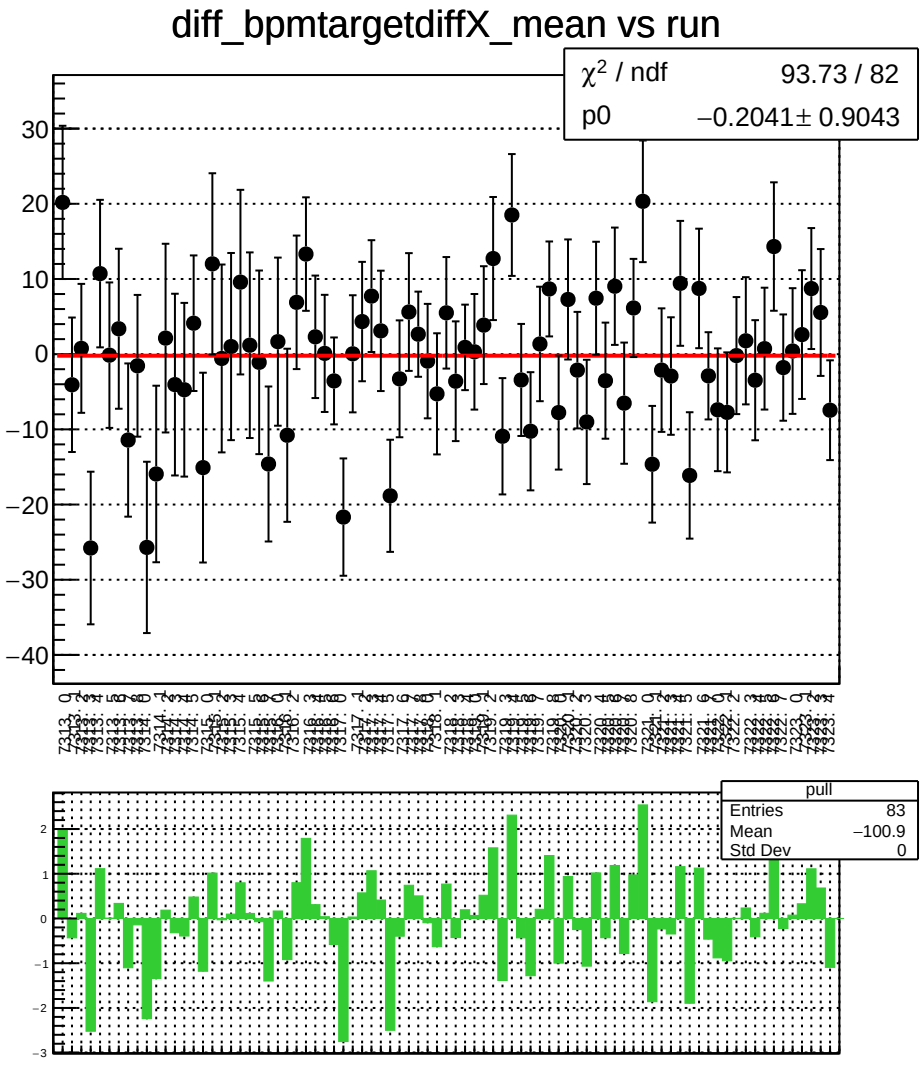

pull1D
Entries 83
Mean −0.02585
Std Dev 0.9597
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

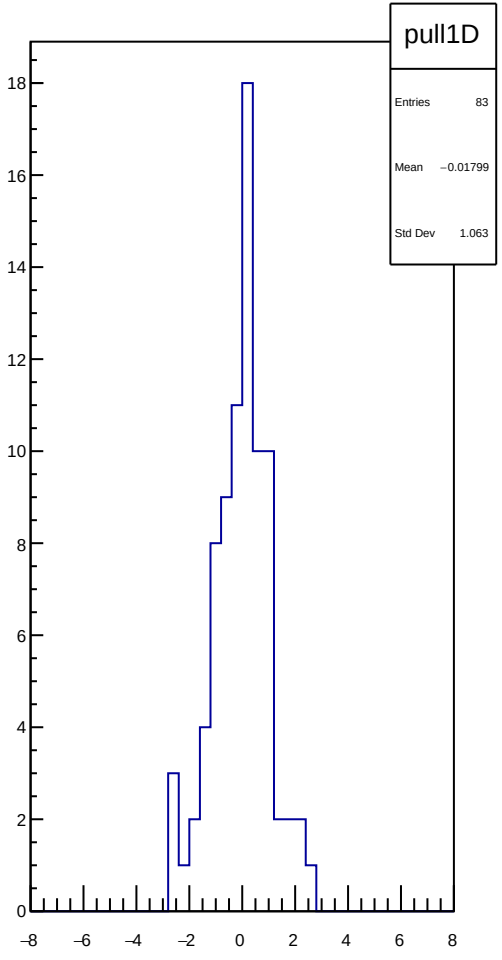

diff_bpm4aediffY_rms vs run
χ² / ndf 8522 / 82
p0 3054 ± 2.412
3800
3600
3400
3200
3000
2800
2600

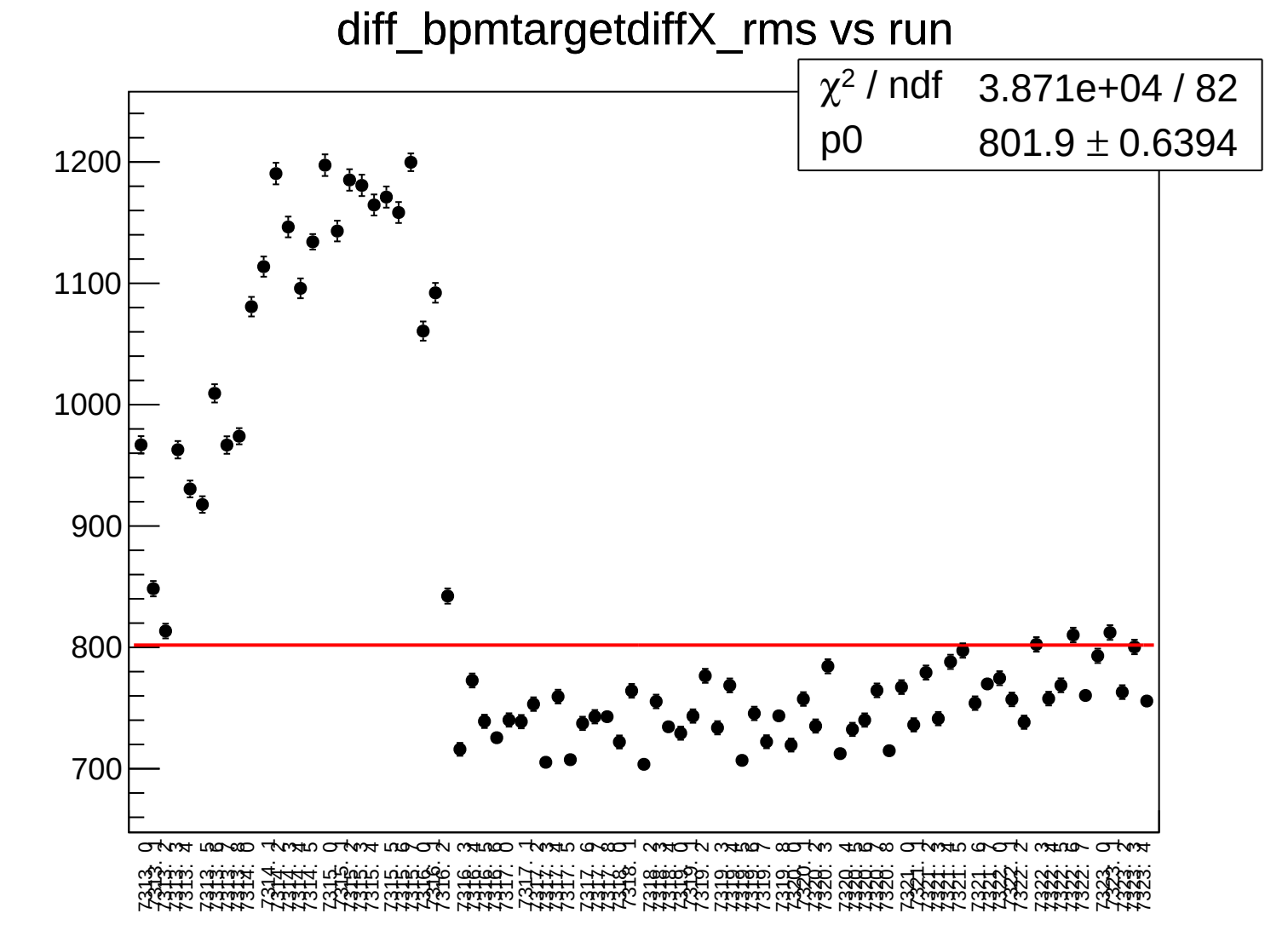

diff_bpmtargetsumX_mean vs run
χ² / ndf 60.85 / 82
p0 −4.963 ± 12.31
pull
Entries 83
Mean −119.5
Std Dev 0

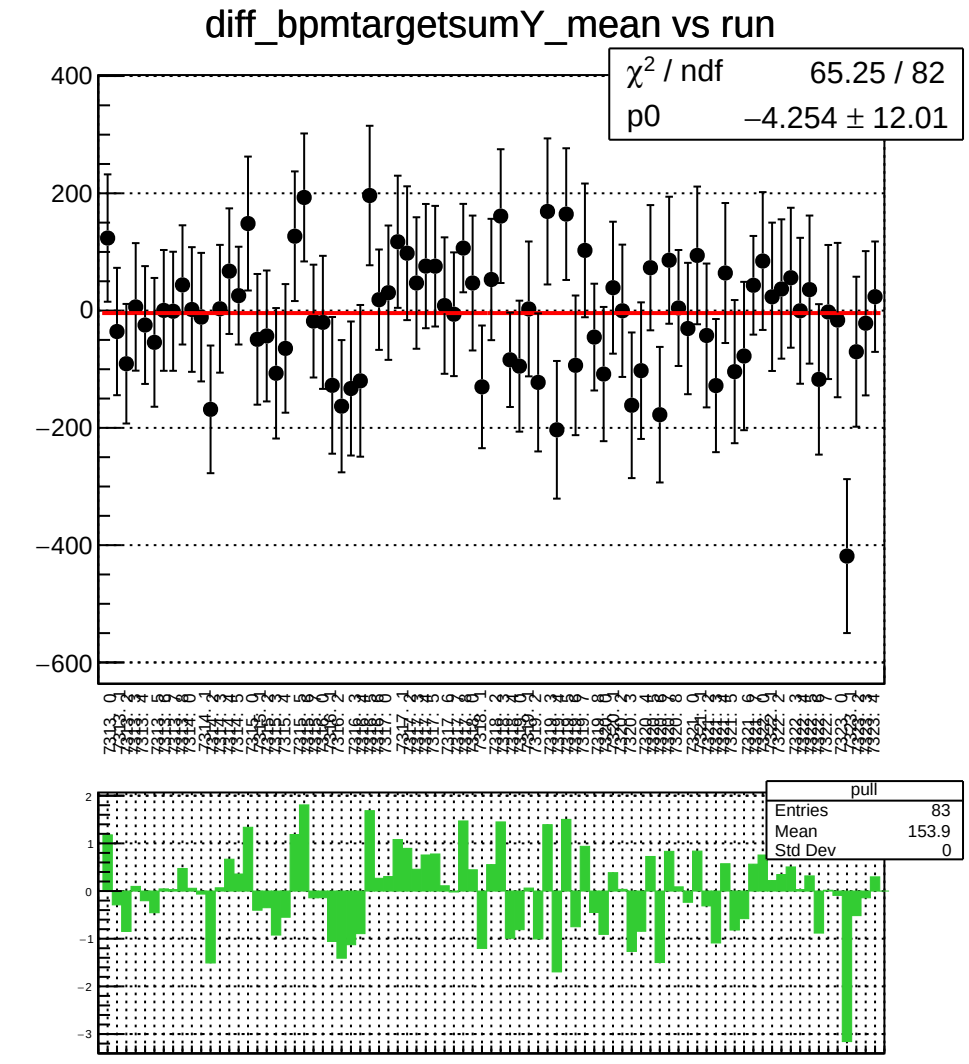

pull1D
Entries 83
Mean 0.01395
Std Dev 0.8561

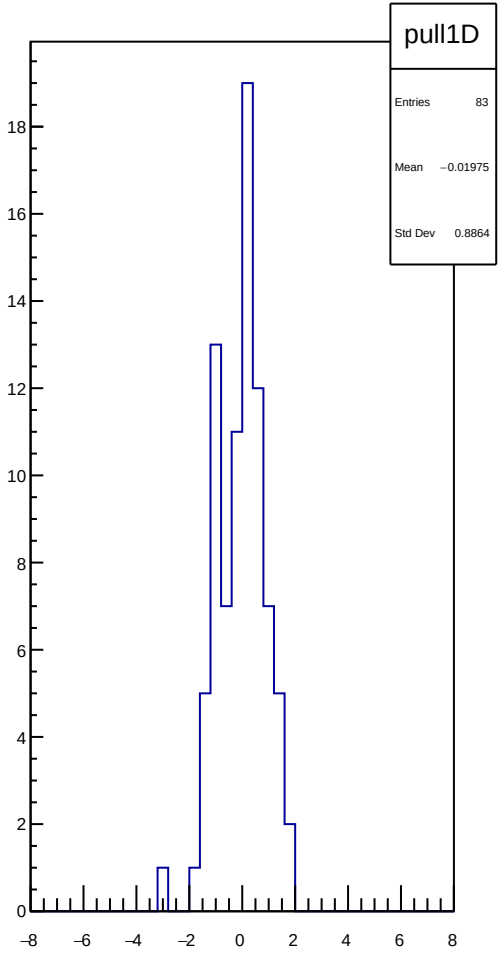

diff_bpmtargetsumX_rms vs run
χ² / ndf 3421 / 82
p0 1.104e+04 ± 8.702
12500
12000
11500
11000
10500
10000

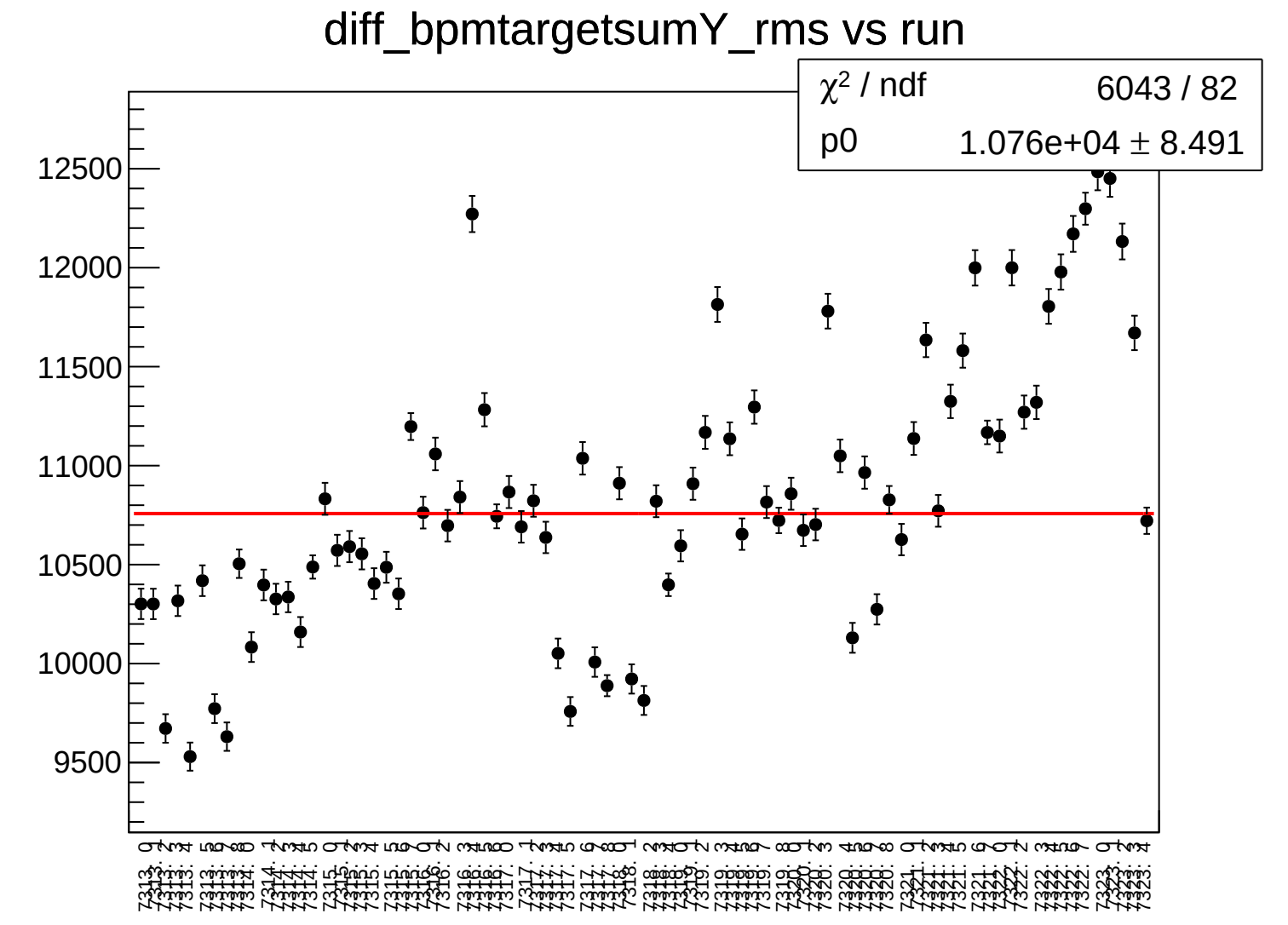

diff_bpmtargetdiffX_mean vs run
χ² / ndf 93.73 / 82
p0 −0.2041± 0.9043
pull
Entries 83
Mean −100.9
Std Dev 0

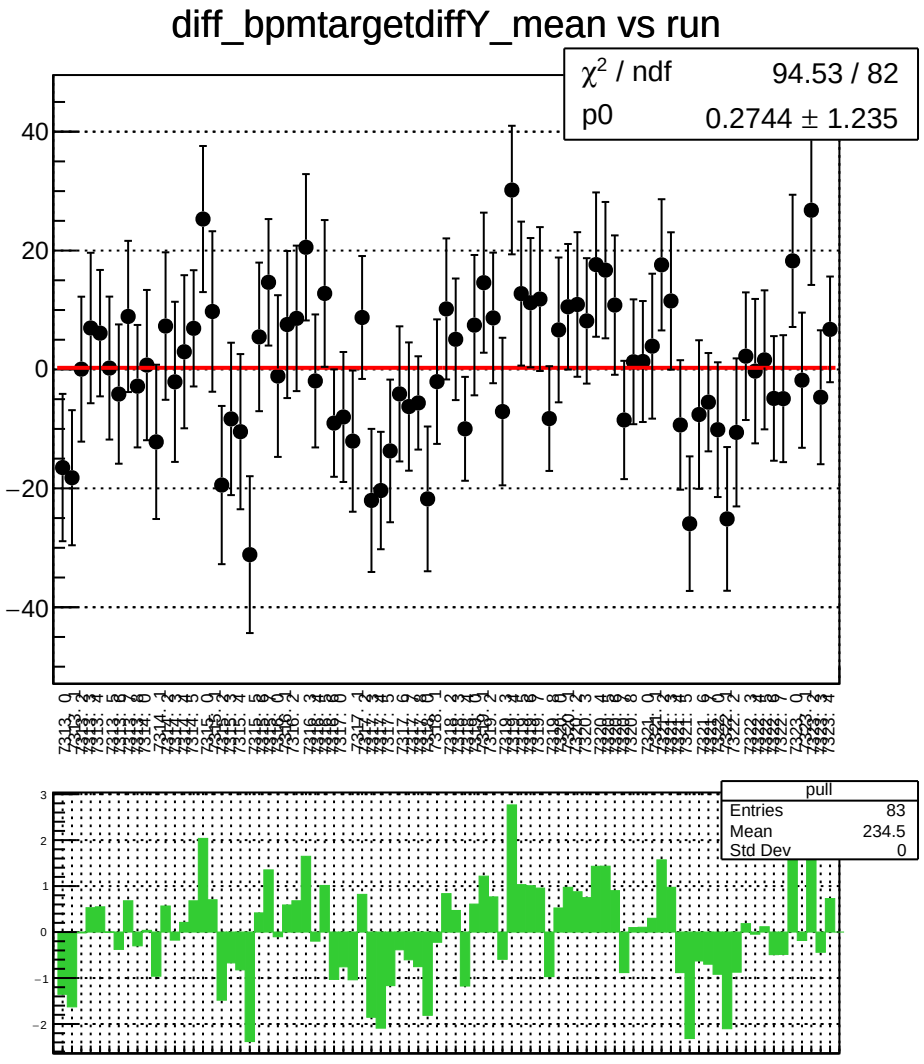

pull1D
Entries 83
Mean −0.01799
Std Dev 1.063

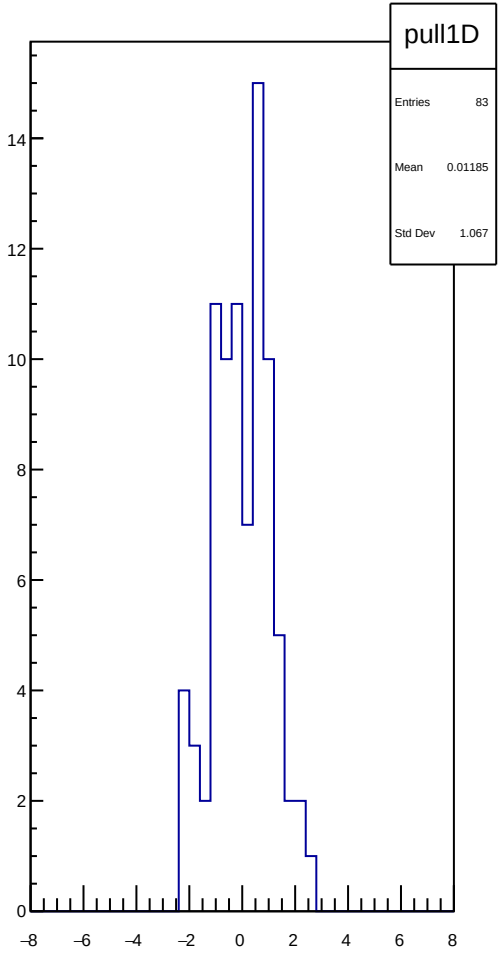

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3.871e+04 / 82
p0 801.9 ± 0.6394
1200
1100
1000
900
800
700

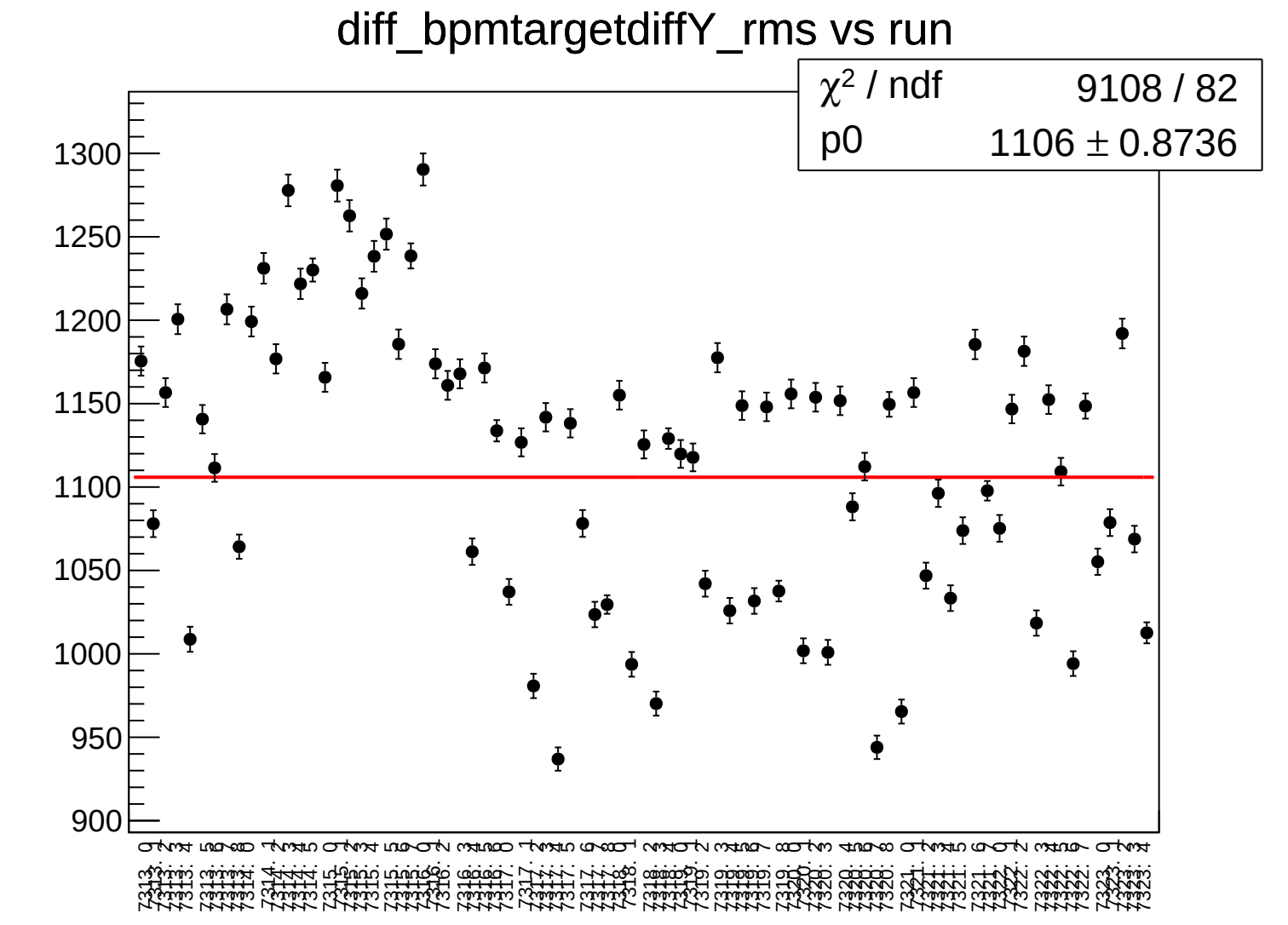

diff_bpmtargetsumY_mean vs run
χ² / ndf 65.25 / 82
p0 −4.254 ± 12.01
pull
Entries 83
Mean 153.9
Std Dev 0

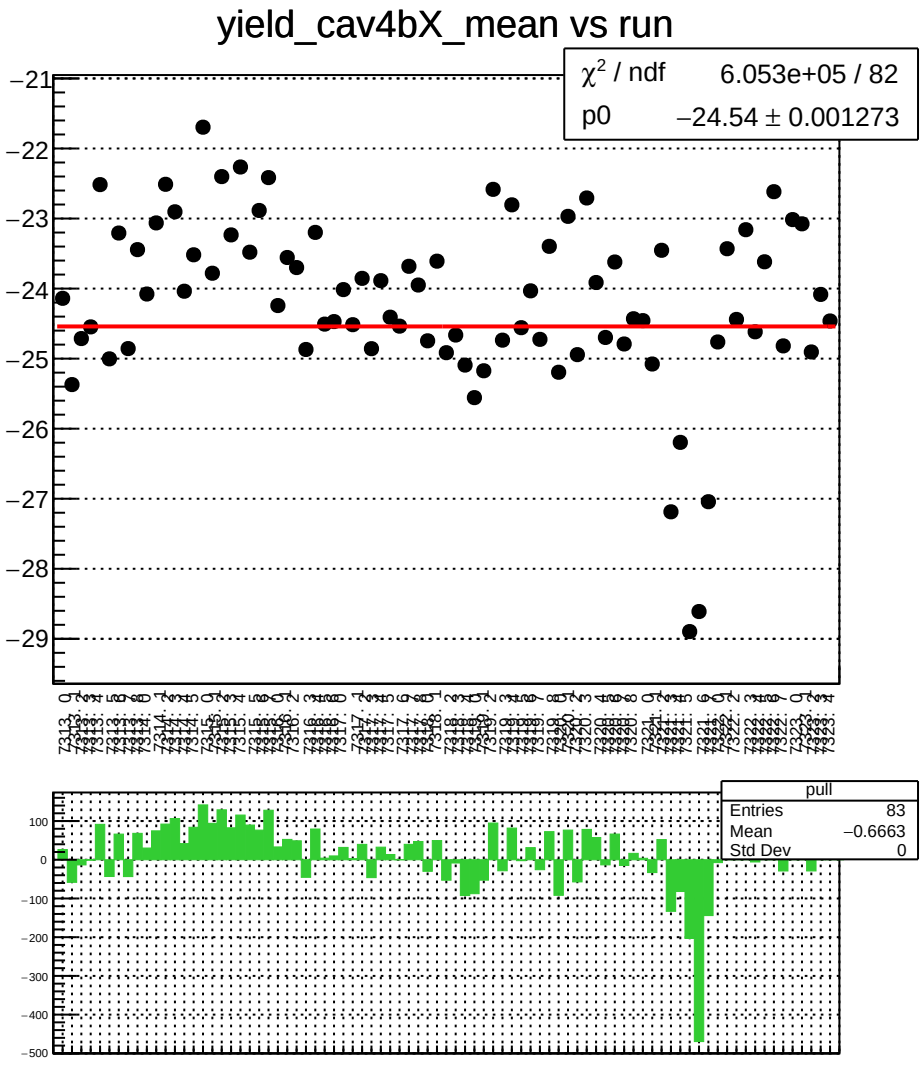

pull1D
Entries 83
Mean −0.01975
Std Dev 0.8864

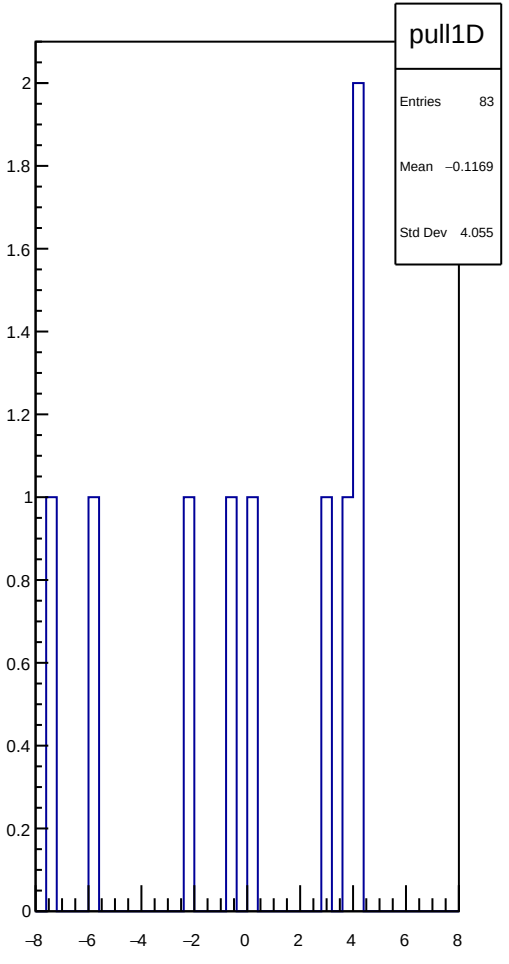

diff_bpmtargetsumY_rms vs run
χ² / ndf 6043 / 82
p0 1.076e+04 ± 8.491
12500
12000
11500
11000
10500
10000
9500

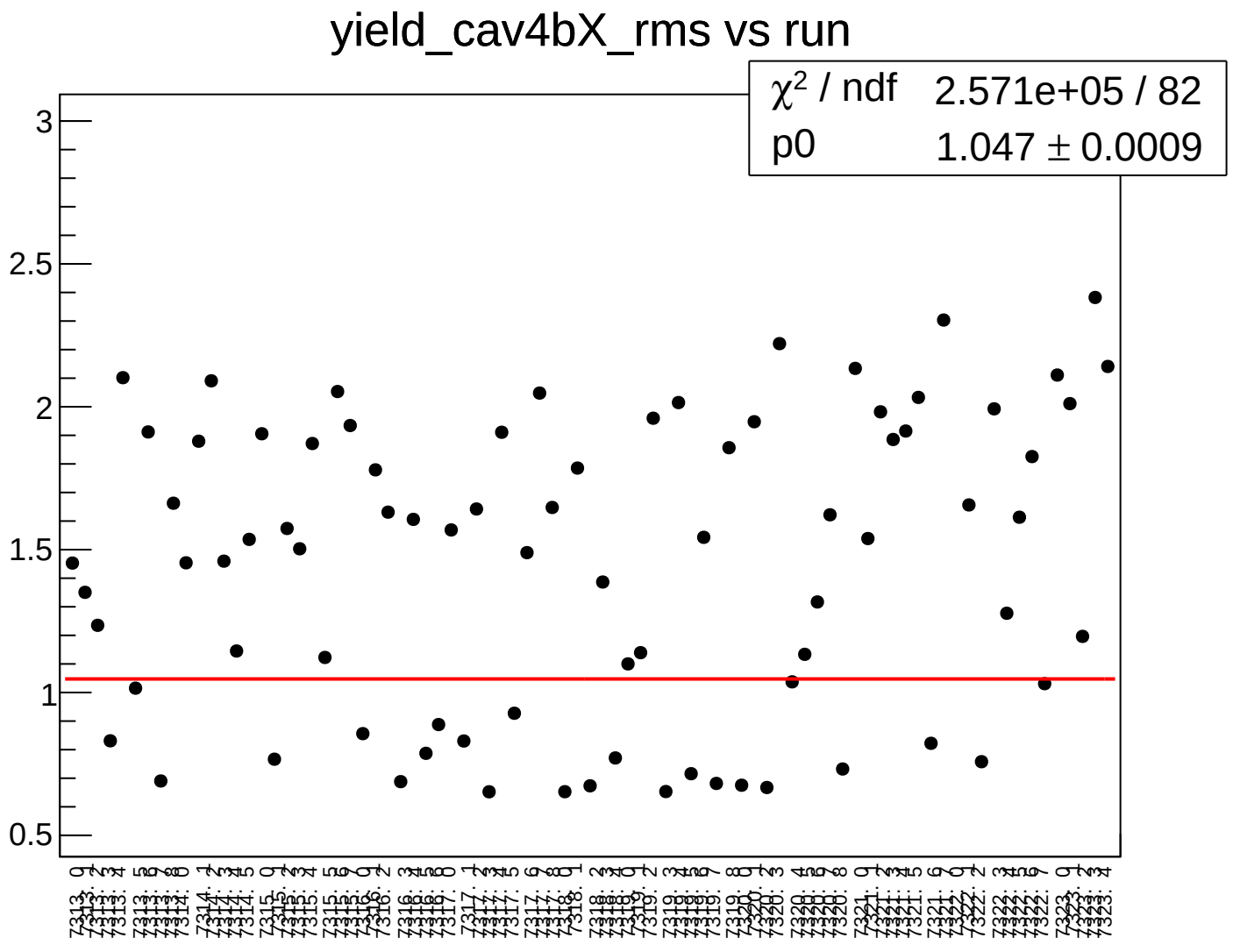

diff_bpmtargetdiffY_mean vs run
χ^2 / ndf 94.53 / 82
p0 0.2744 ± 1.235
pull
Entries 83
Mean 234.5
Std Dev 0

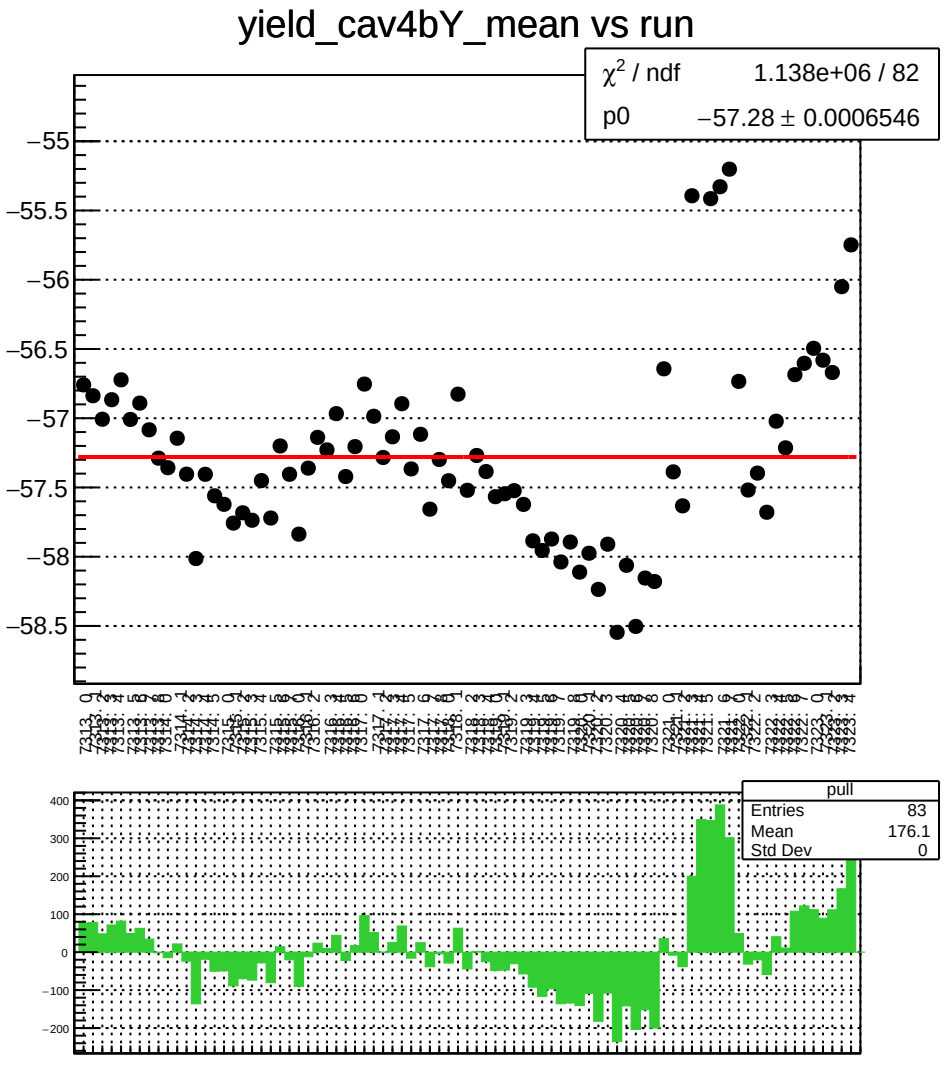

pull1D
Entries 83
Mean 0.01185
Std Dev 1.067

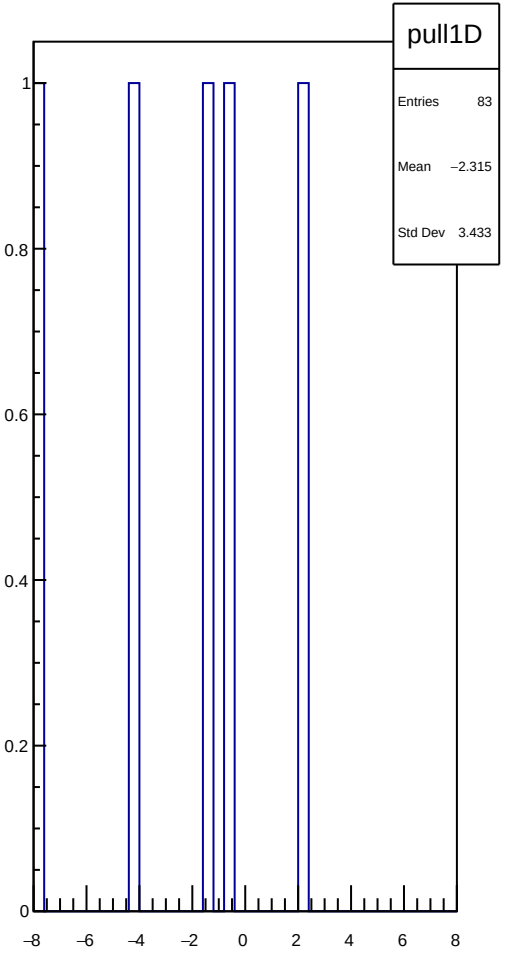

diff_bpmtargetdiffY_rms vs run
χ² / ndf 9108 / 82
p0 1106 ± 0.8736
1300
1250
1200
1150
1100
1050
1000
950
900

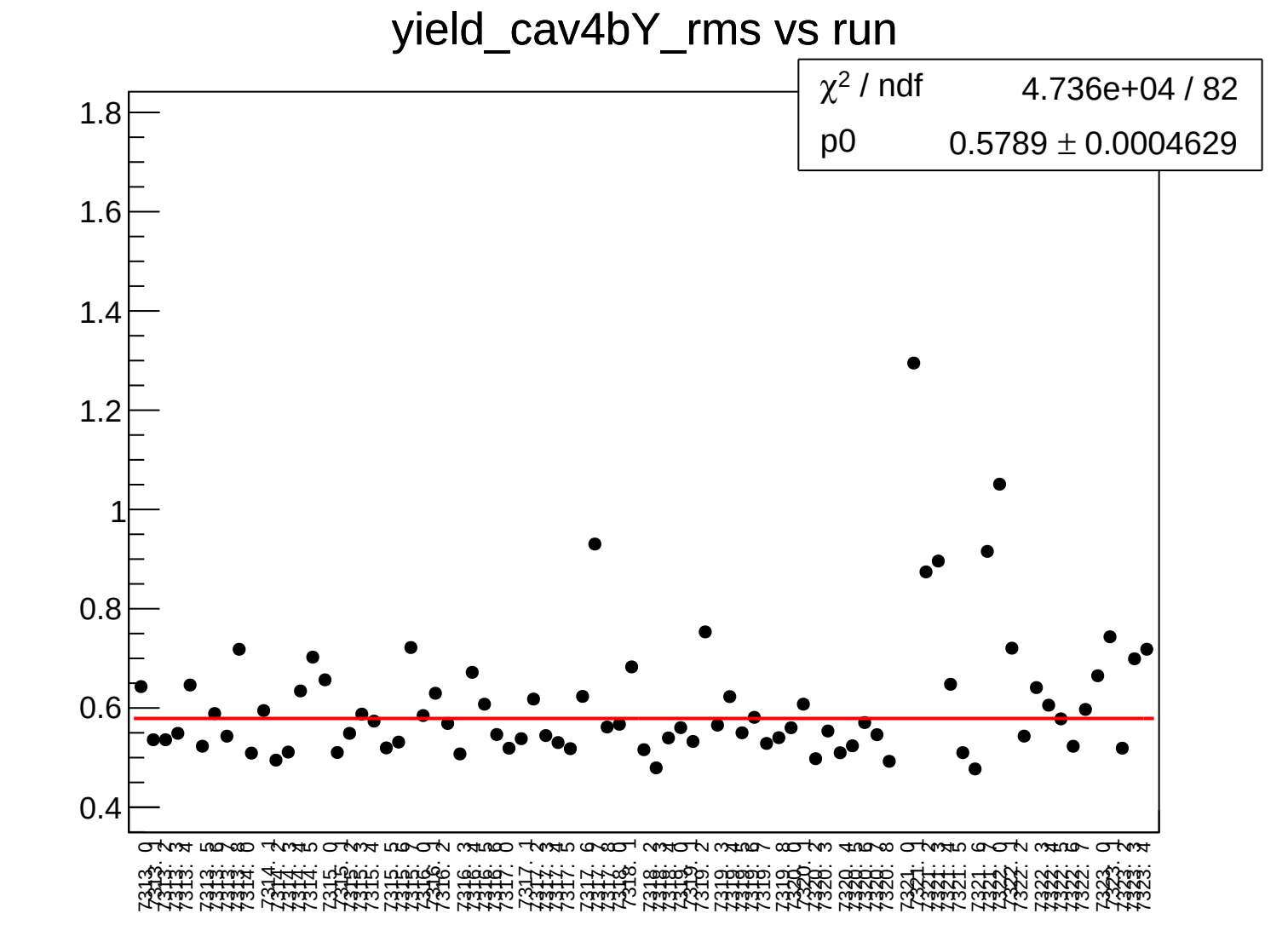

yield_cav4bX_mean vs run
χ² / ndf 6.053e+05 / 82
p0 −24.54 ± 0.001273
pull
Entries 83
Mean −0.6663
Std Dev 0

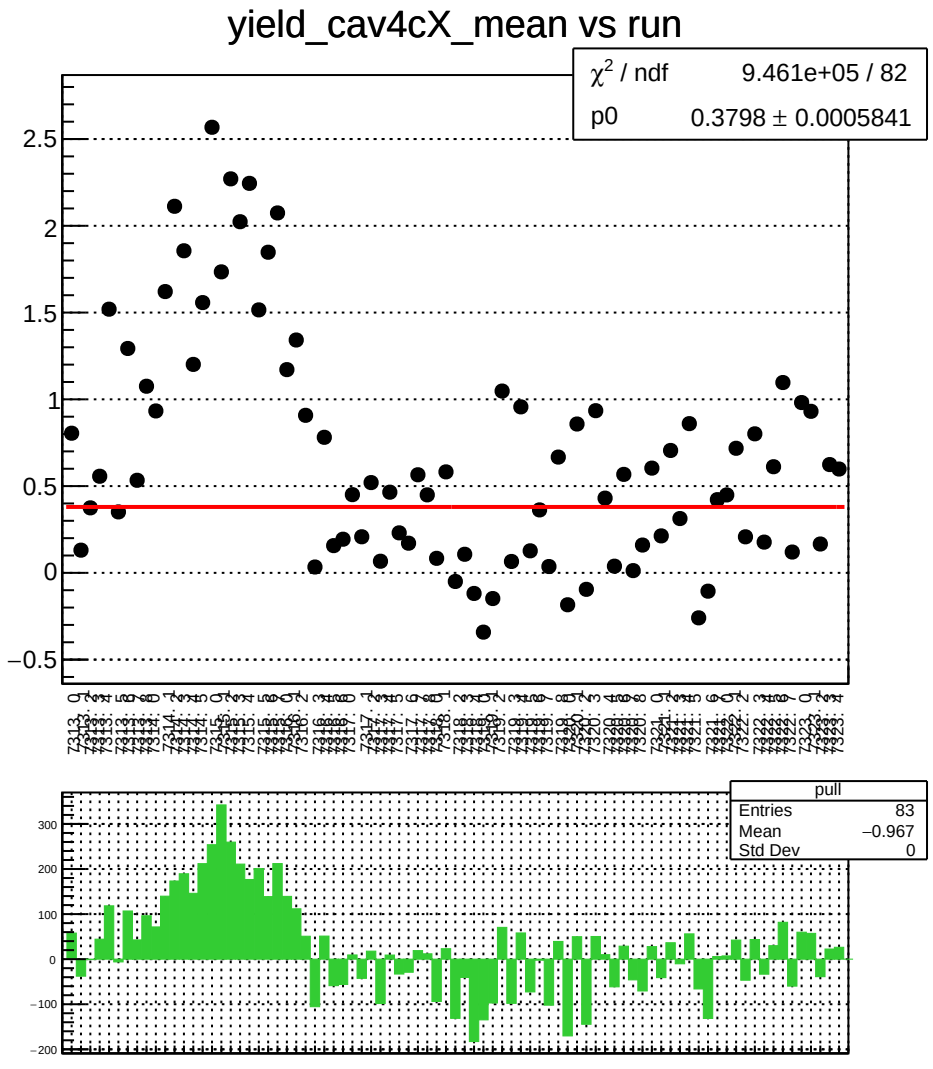

pull1D
Entries 83
Mean −0.1169
Std Dev 4.055

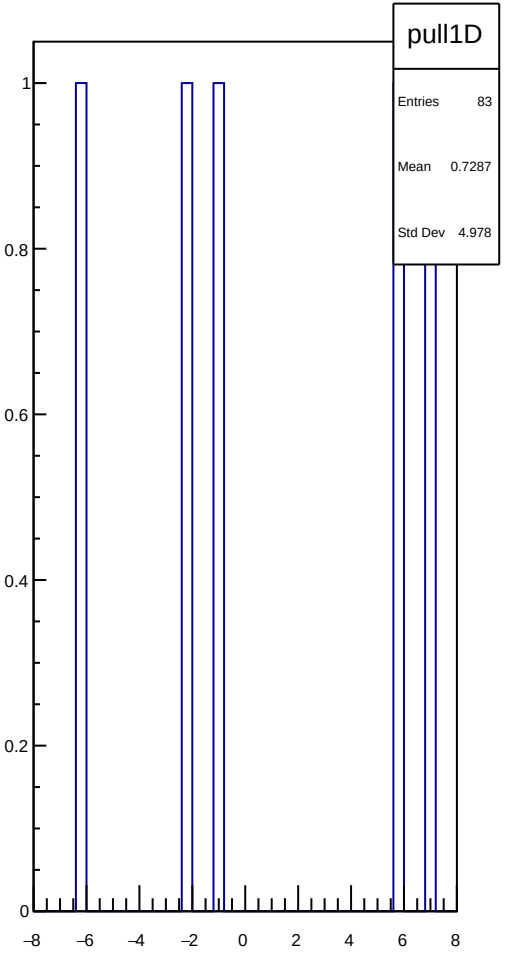

yield_cav4bX_rms vs run
χ² / ndf 2.571e+05 / 82
p0 1.047 ± 0.0009
3
2.5
2
1.5
1
0.5

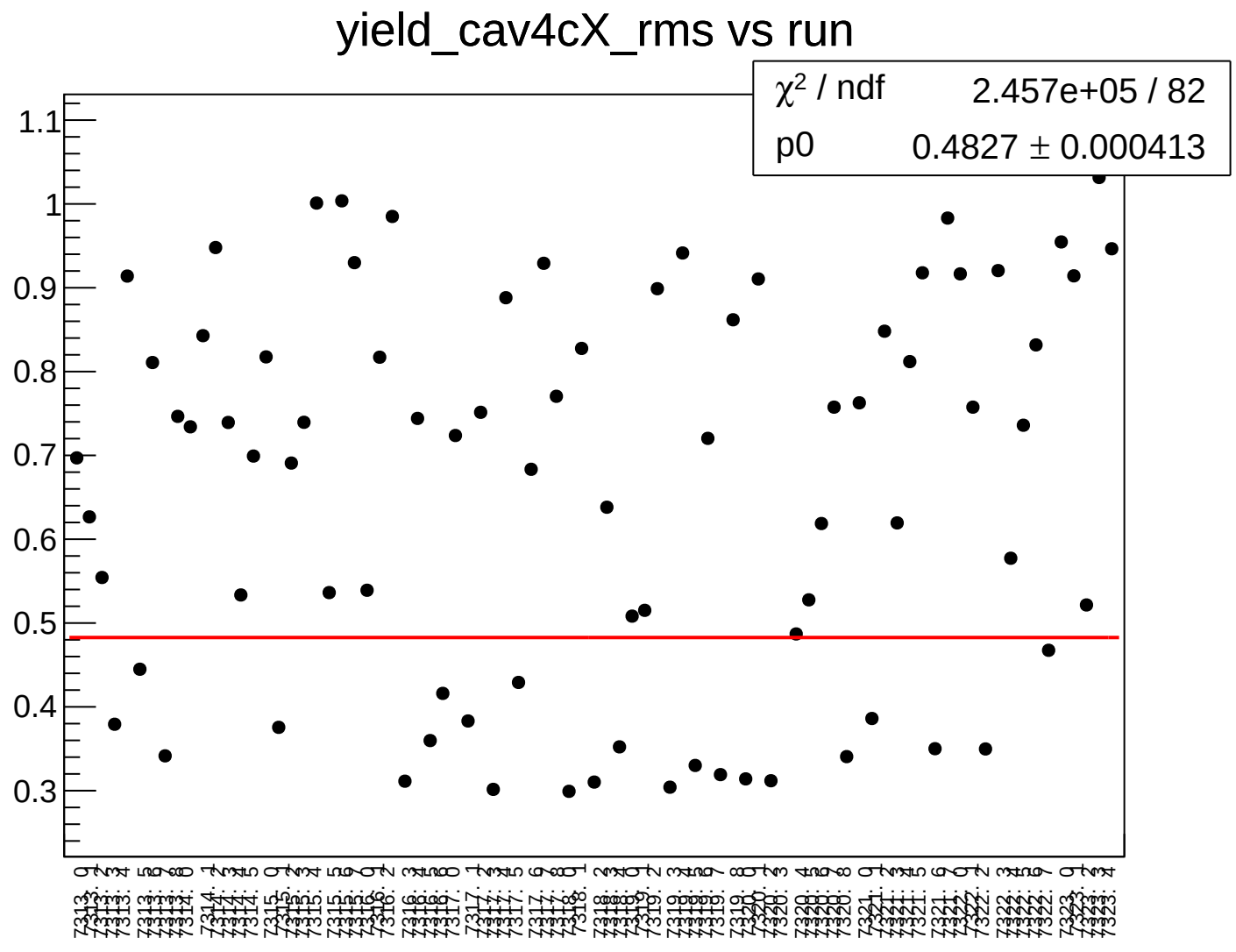

yield_cav4bY_mean vs run
χ² / ndf 1.138e+06 / 82
p0 −57.28 ± 0.0006546
−55
−55.5
−56
−56.5
−57
−57.5
−58
−58.5
pull
Entries 83
Mean 176.1
Std Dev 0
400
300
200
100
0
−100
−200

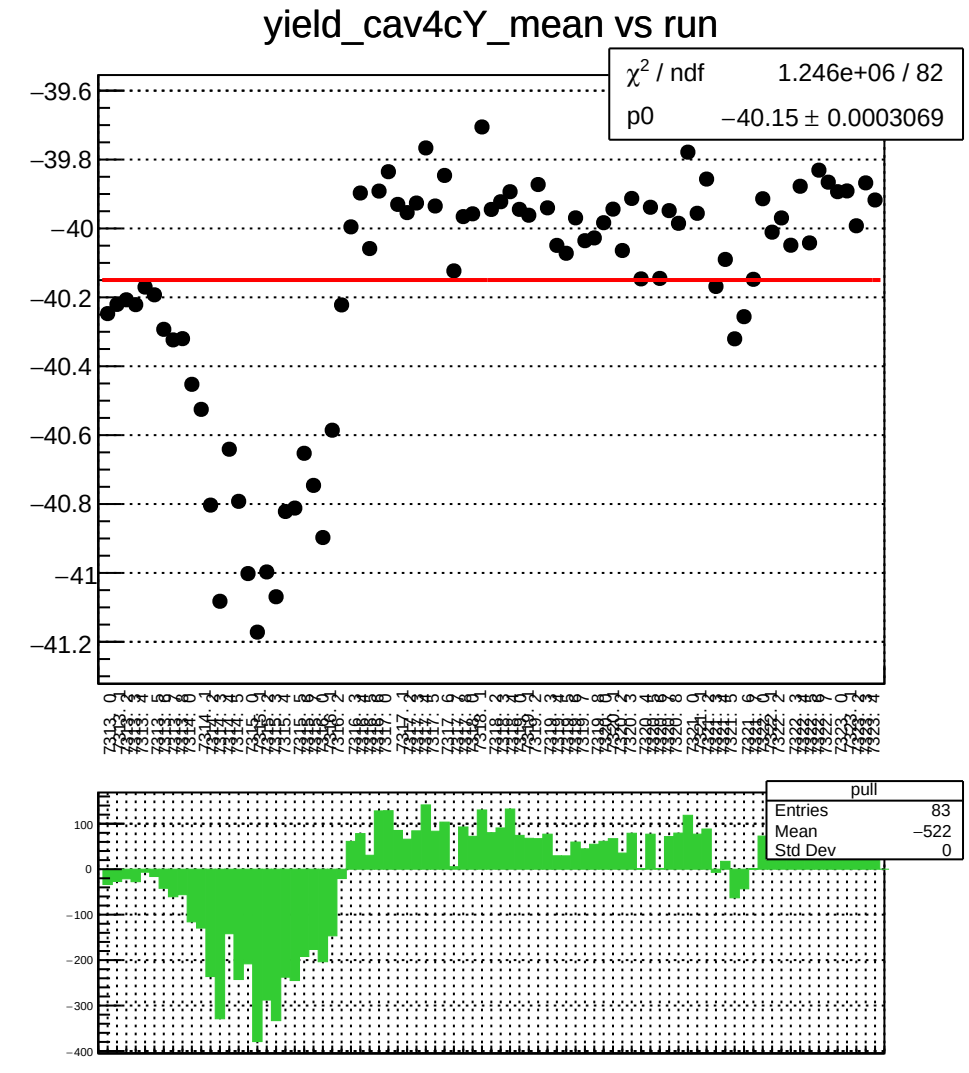

pull1D
Entries 83
Mean −2.315
Std Dev 3.433
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

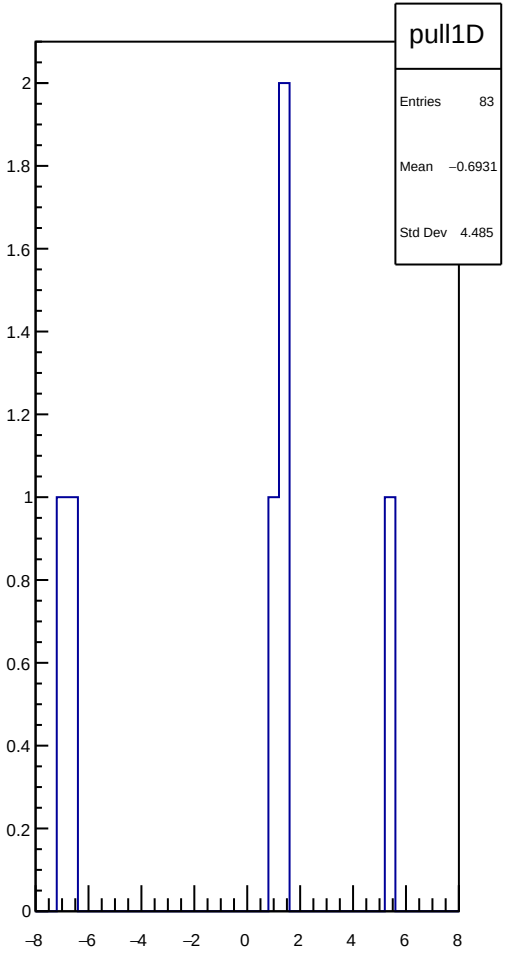

yield_cav4bY_rms vs run
χ² / ndf 4.736e+04 / 82
p0 0.5789 ± 0.0004629
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

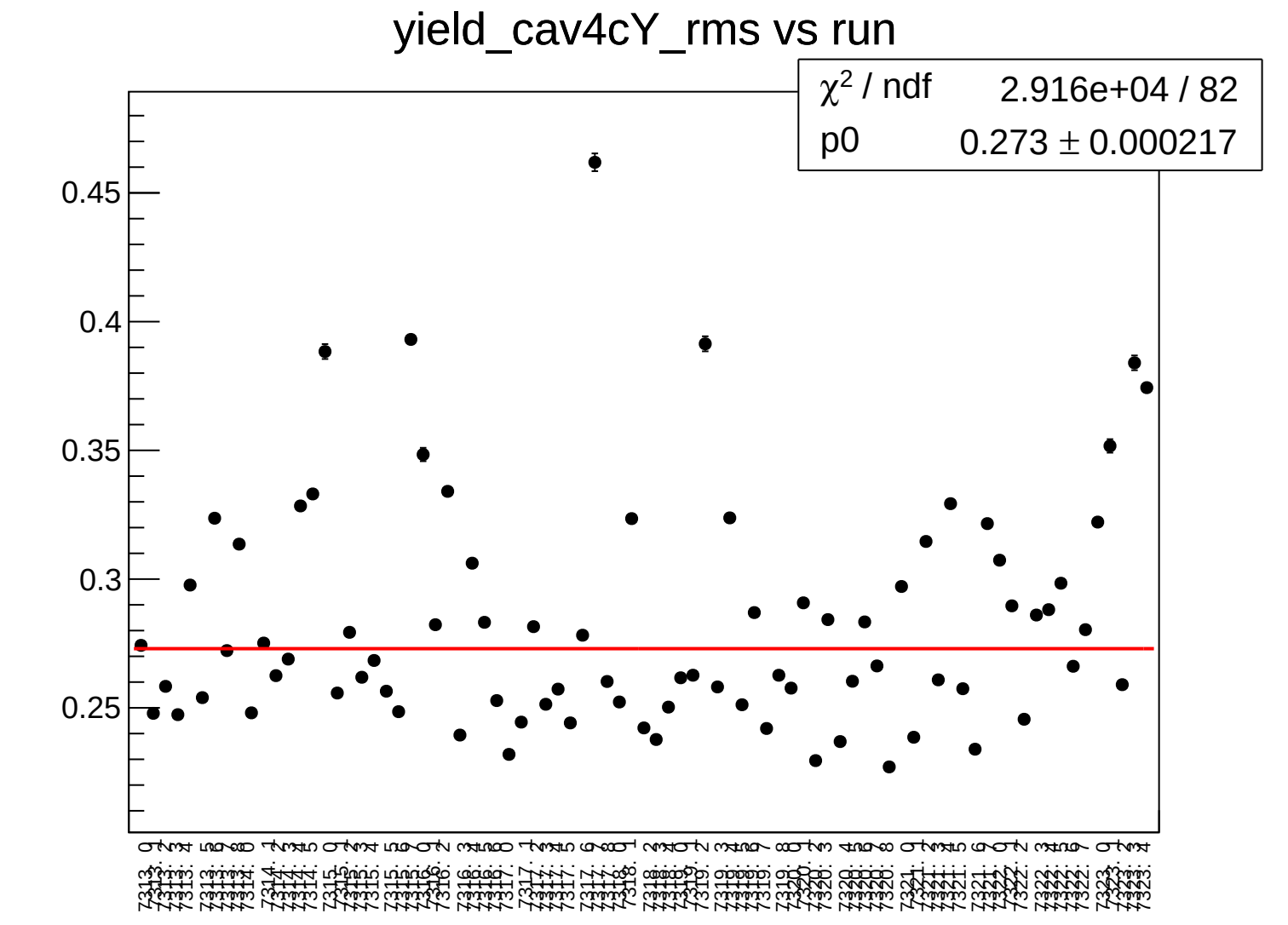

yield_cav4cX_mean vs run
χ² / ndf 9.461e+05 / 82
p0 0.3798 ± 0.0005841
pull
Entries 83
Mean −0.967
Std Dev 0

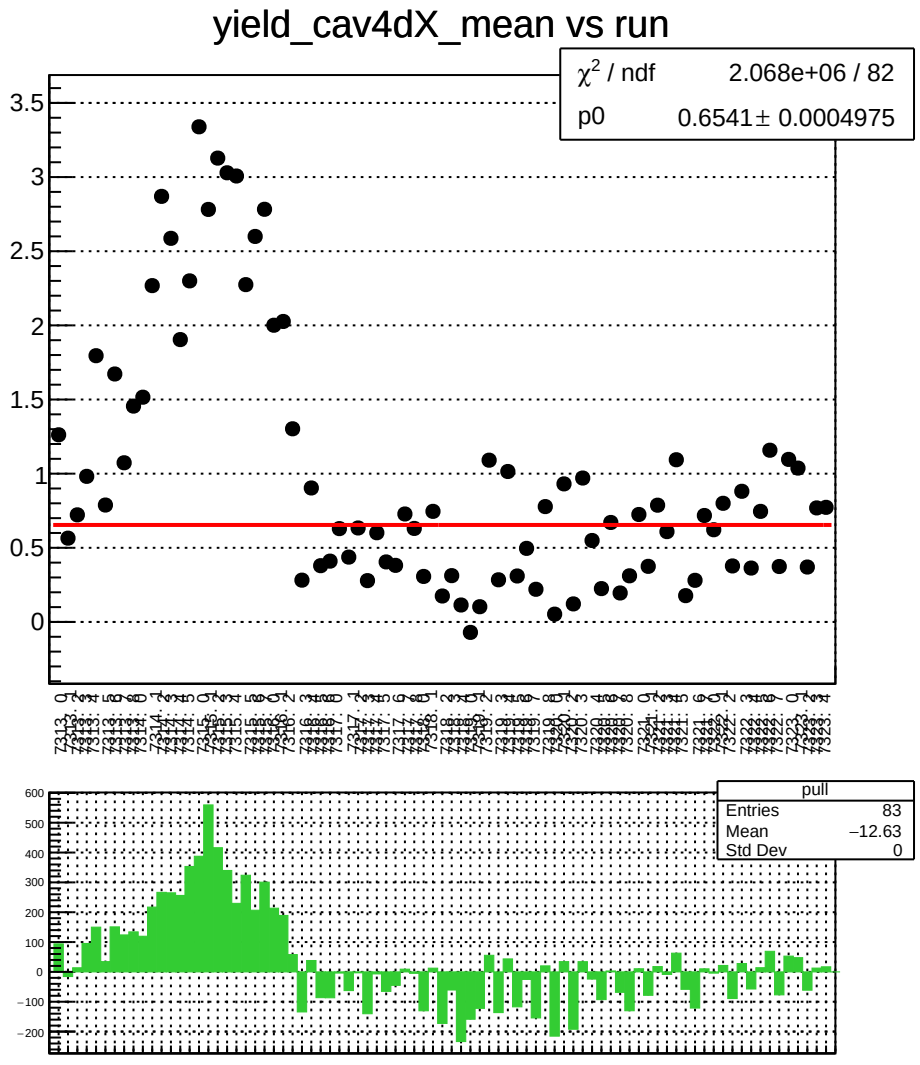

pull1D
Entries 83
Mean 0.7287
Std Dev 4.978

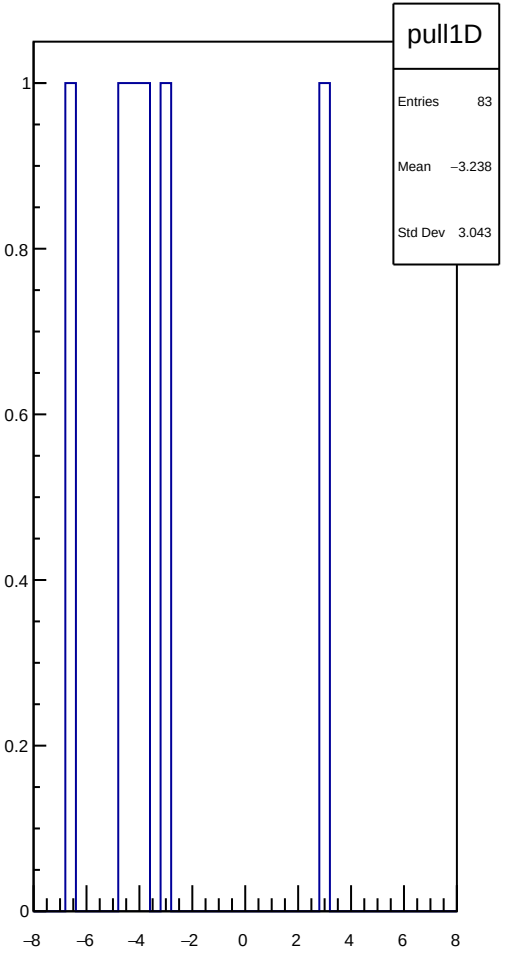

yield_cav4cX_rms vs run
χ² / ndf 2.457e+05 / 82
p0 0.4827 ± 0.000413
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

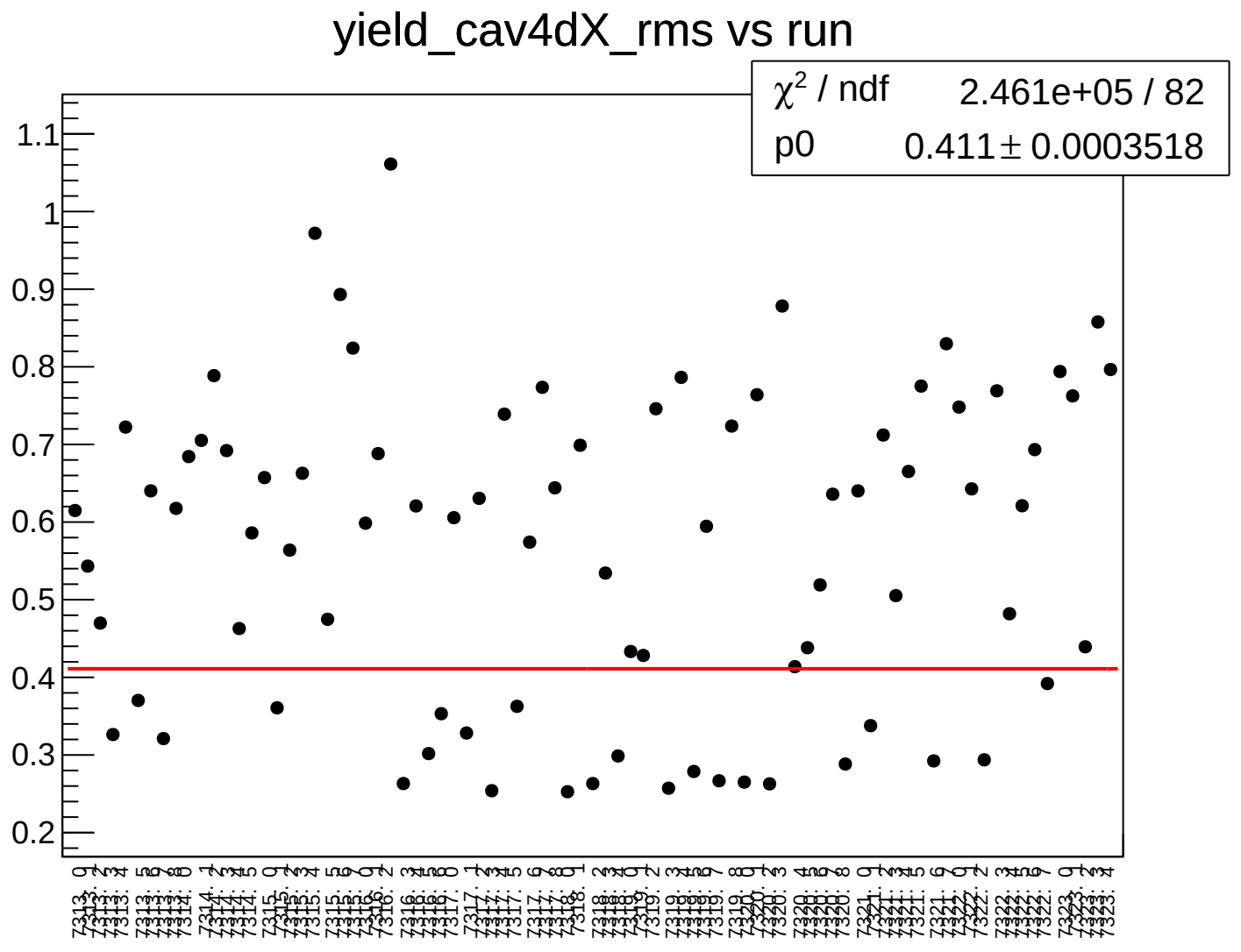

yield_cav4cY_mean vs run
χ² / ndf 1.246e+06 / 82
p0 −40.15 ± 0.0003069
−39.6
−39.8
−40
−40.2
−40.4
−40.6
−40.8
−41
−41.2
pull
Entries 83
Mean −522
Std Dev 0
100
0
−100
−200
−300
−400

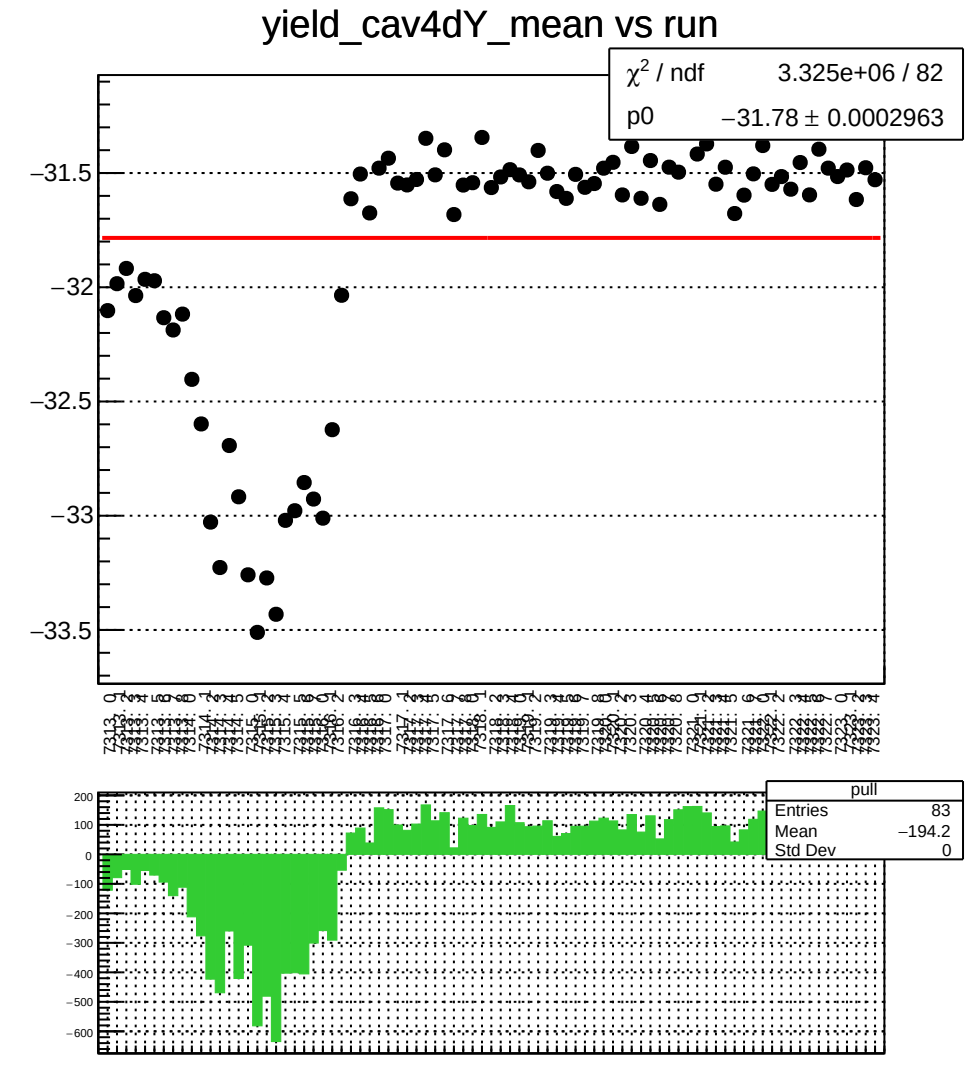

pull1D
Entries 83
Mean −0.6931
Std Dev 4.485
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

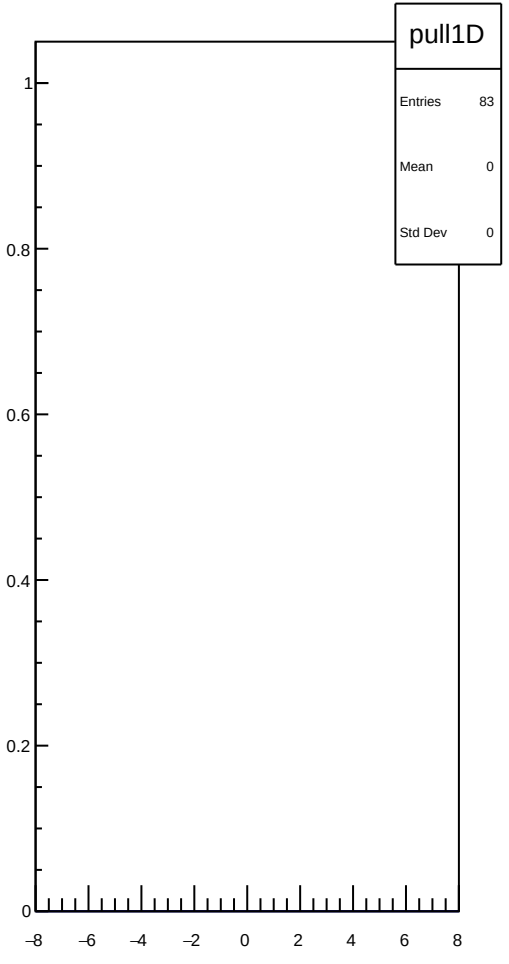

yield_cav4cY_rms vs run
χ² / ndf 2.916e+04 / 82
p0 0.273 ± 0.000217
0.45
0.4
0.35
0.3
0.25

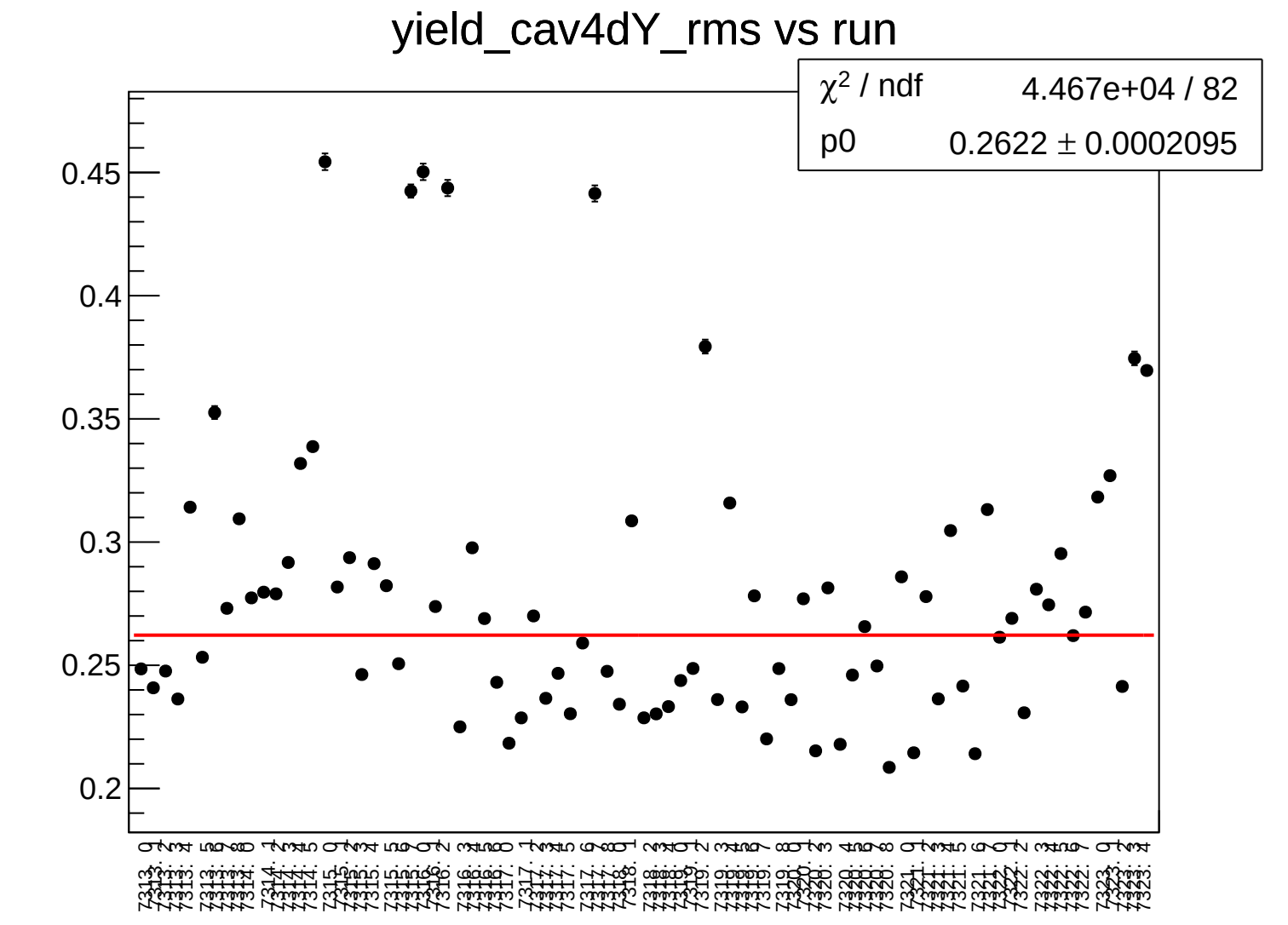

yield_cav4dX_mean vs run
χ² / ndf 2.068e+06 / 82
p0 0.6541 ± 0.0004975
pull
Entries 83
Mean −12.63
Std Dev 0

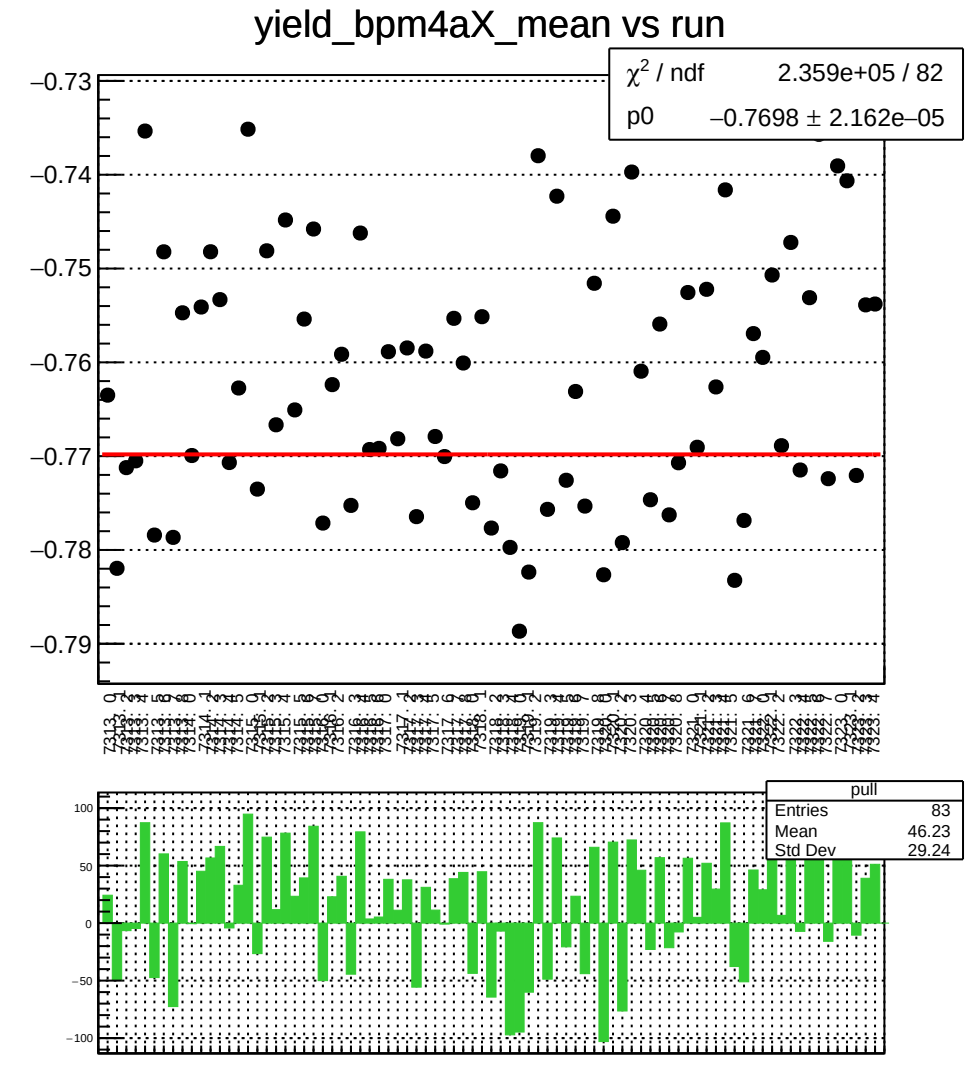

pull1D
Entries 83
Mean −3.238
Std Dev 3.043

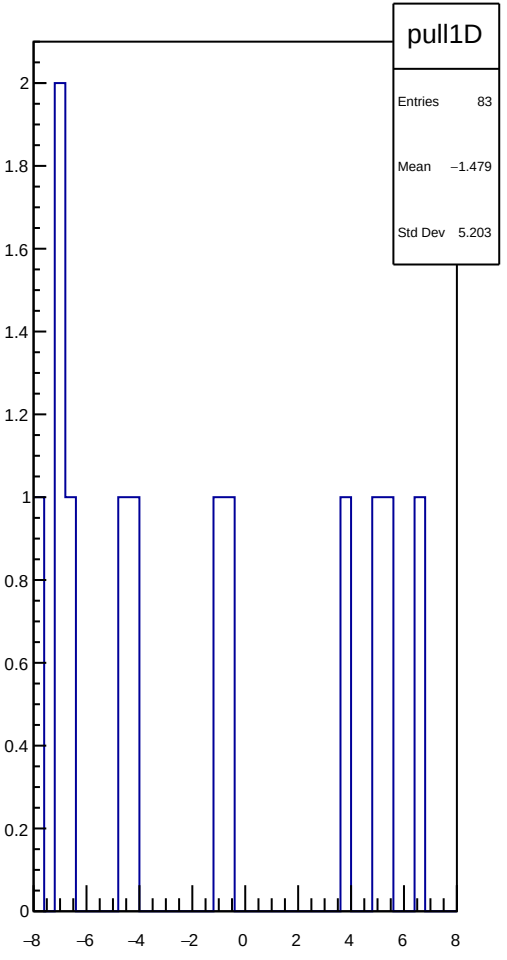

yield_cav4dX_rms vs run
χ^2 / ndf 2.461e+05 / 82
p0 0.411 ± 0.0003518
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

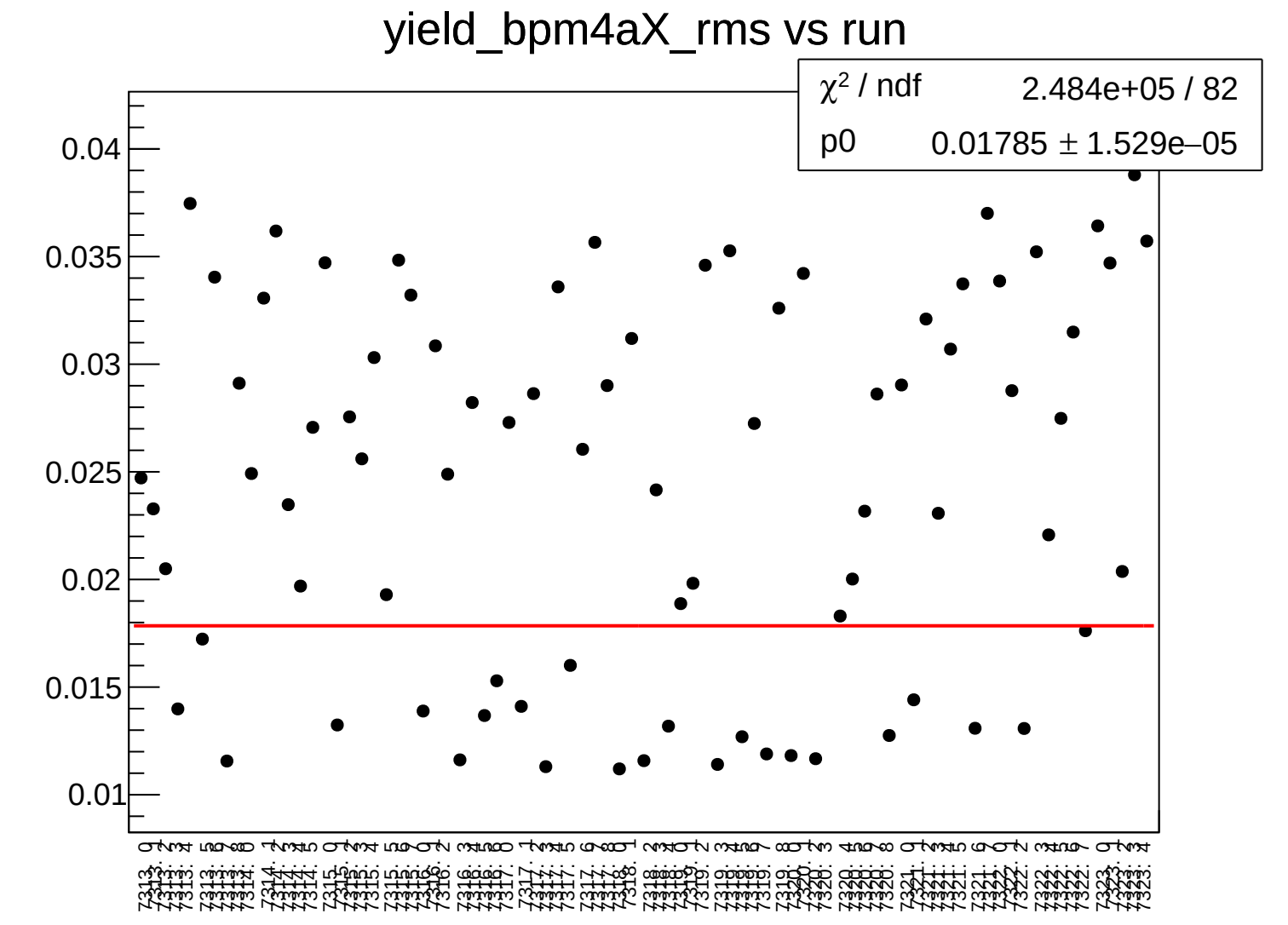

yield_cav4dY_mean vs run
χ² / ndf 3.325e+06 / 82
p0 −31.78 ± 0.0002963
−31.5
−32
−32.5
−33
−33.5
pull
Entries 83
Mean −194.2
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

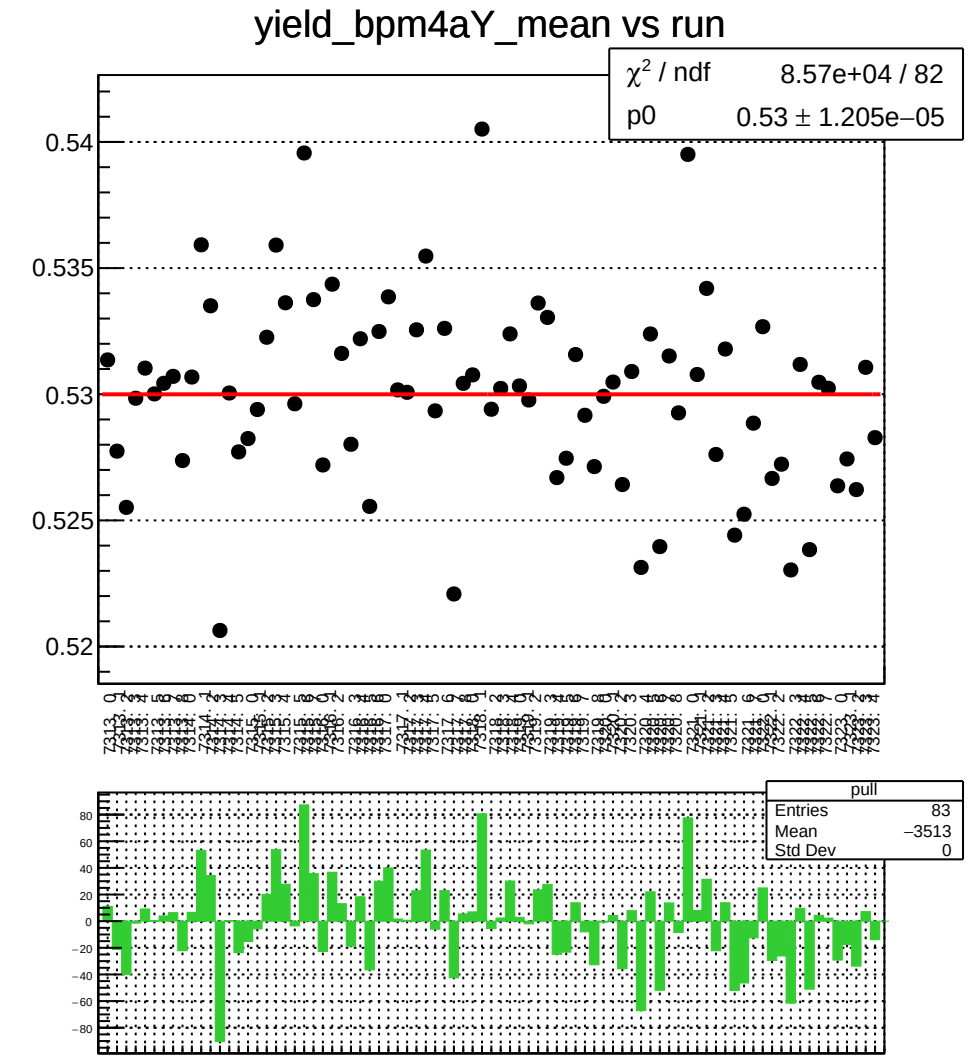

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

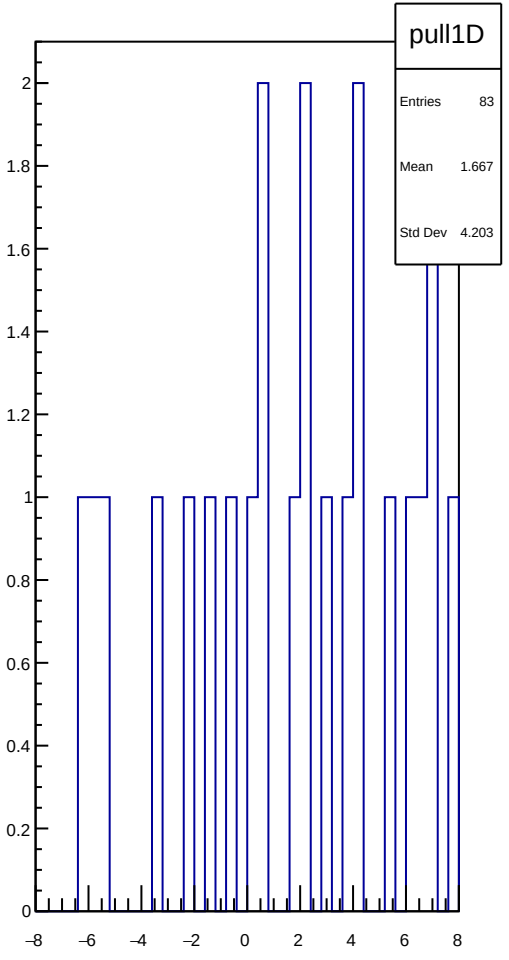

yield_cav4dY_rms vs run
χ² / ndf 4.467e+04 / 82
p0 0.2622 ± 0.0002095
0.45
0.4
0.35
0.3
0.25
0.2

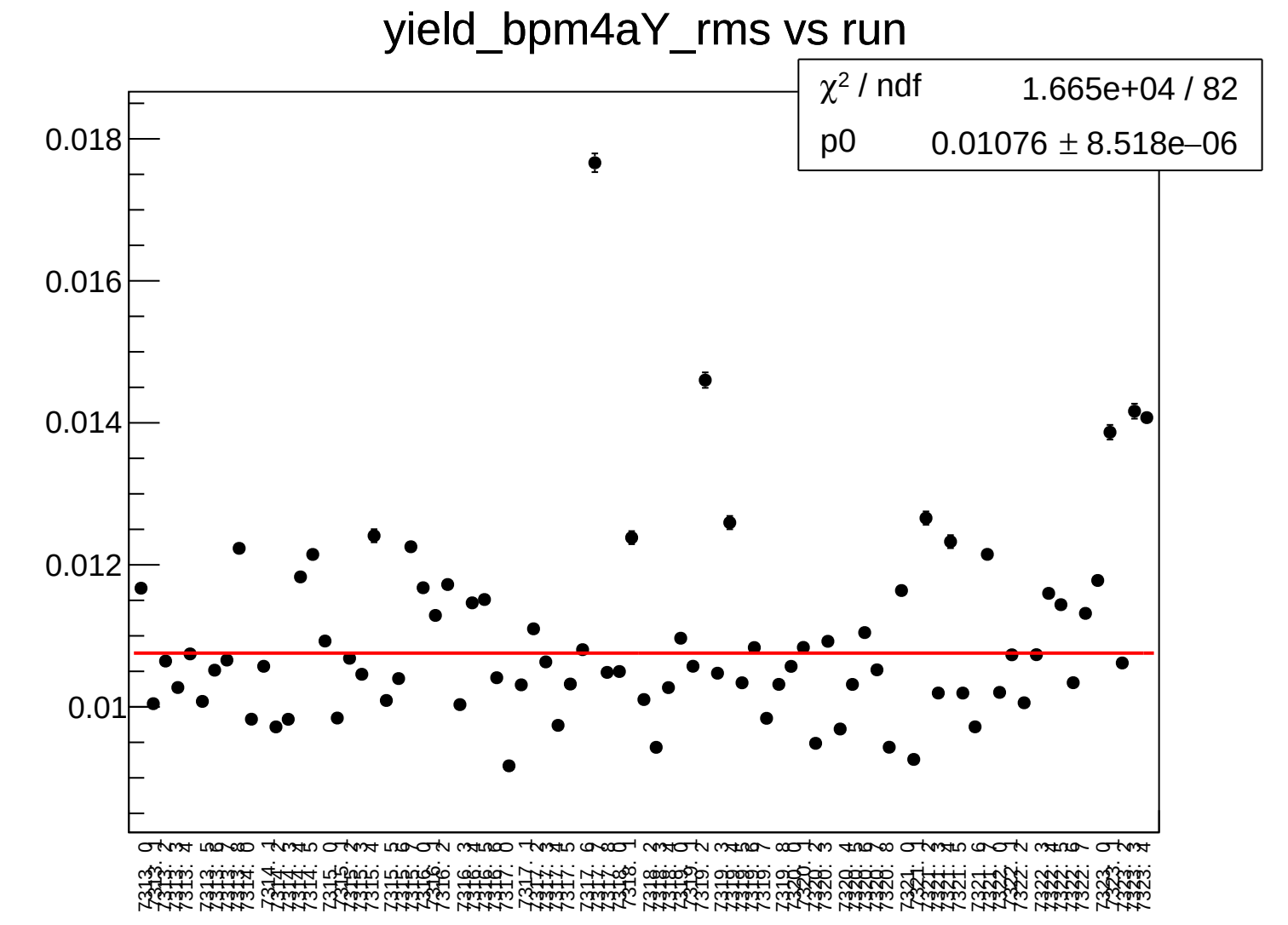

yield_bpm4aX_mean vs run
χ² / ndf 2.359e+05 / 82
p0 −0.7698 ± 2.162e−05
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
−0.79
pull
Entries 83
Mean 46.23
Std Dev 29.24
100
50
0
−50
−100

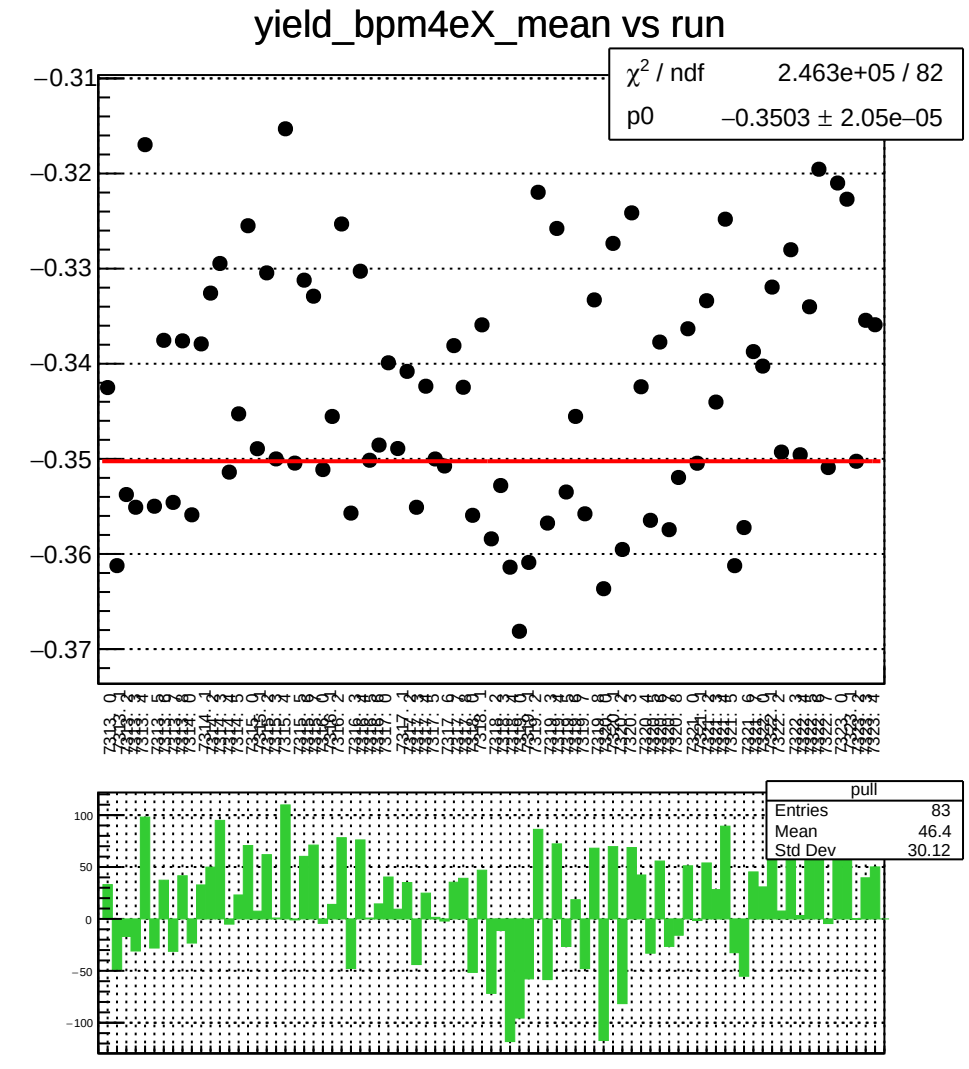

pull1D
Entries 83
Mean −1.479
Std Dev 5.203
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

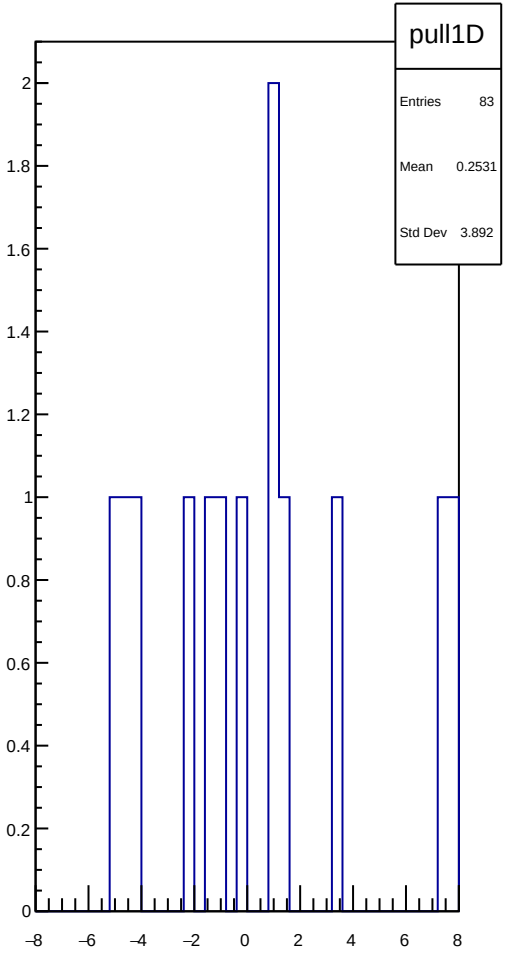

yield_bpm4aX_rms vs run
χ² / ndf 2.484e+05 / 82
p0 0.01785 ± 1.529e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

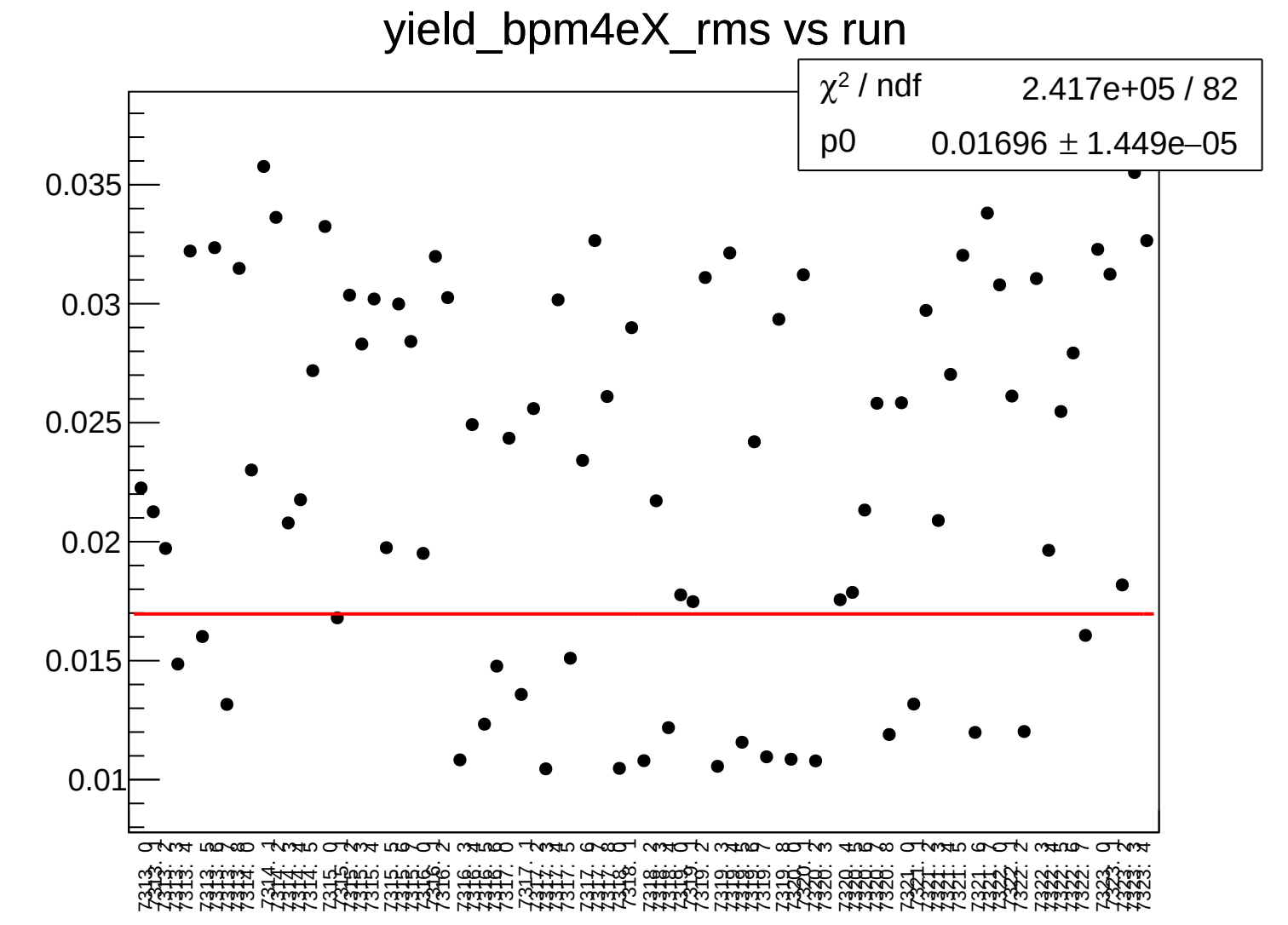

yield_bpm4aY_mean vs run
χ² / ndf 8.57e+04 / 82
p0 0.53 ± 1.205e−05
0.54
0.535
0.53
0.525
0.52
pull
Entries 83
Mean −3513
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

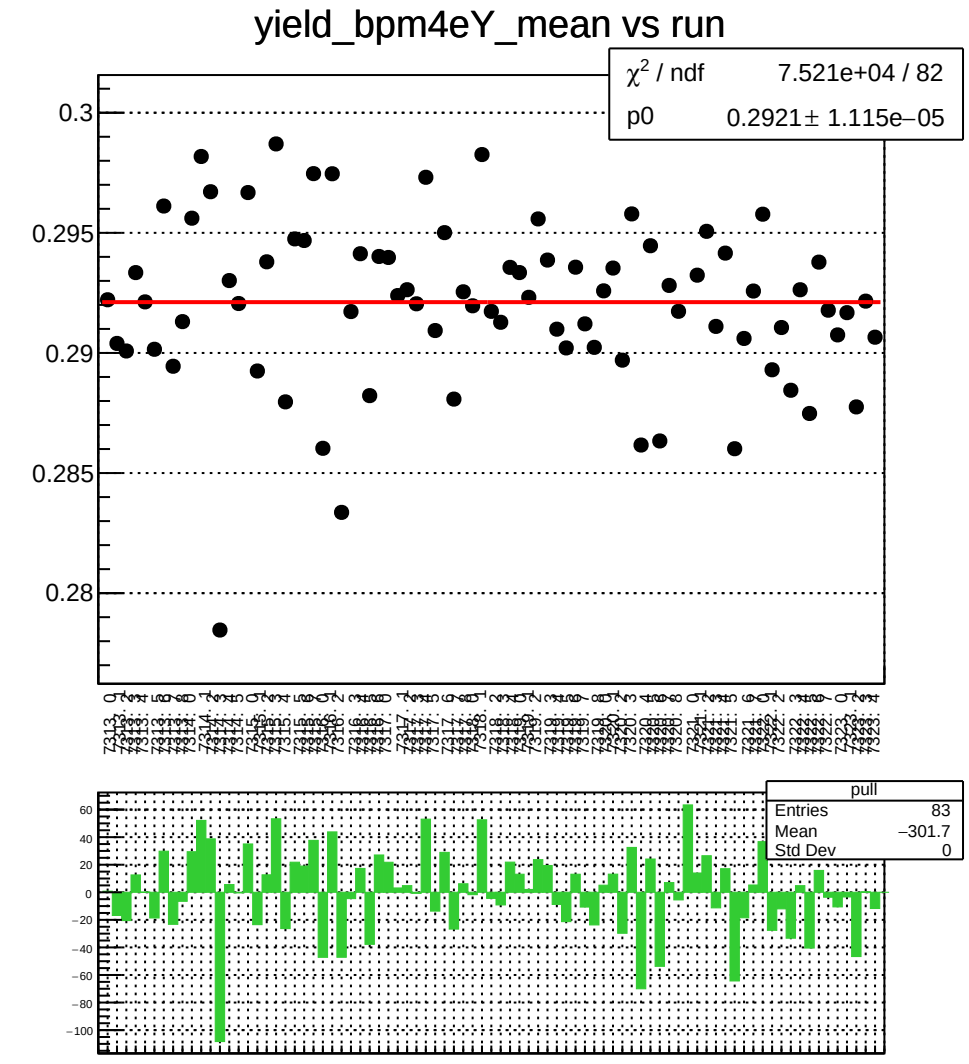

pull1D
Entries 83
Mean 1.667
Std Dev 4.203
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

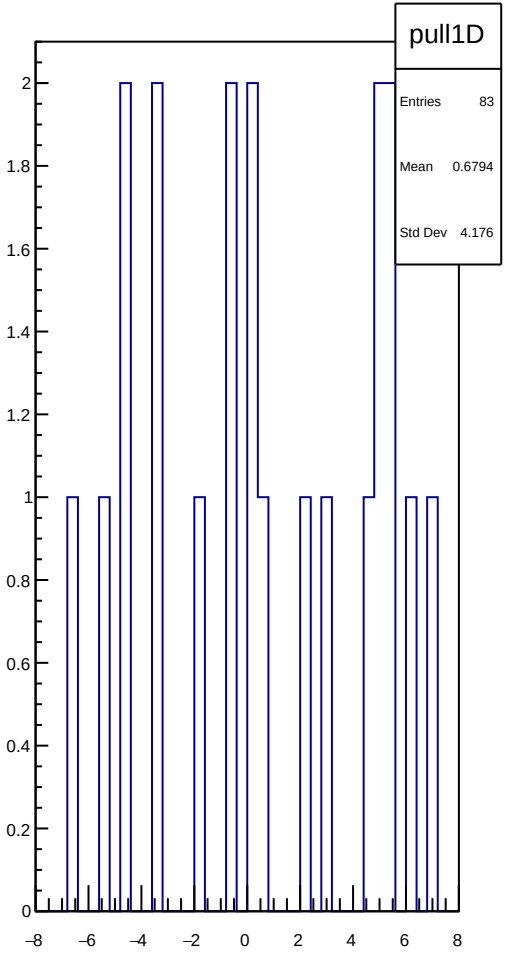

yield_bpm4aY_rms vs run
χ² / ndf 1.665e+04 / 82
p0 0.01076 ± 8.518e–06
0.018
0.016
0.014
0.012
0.01

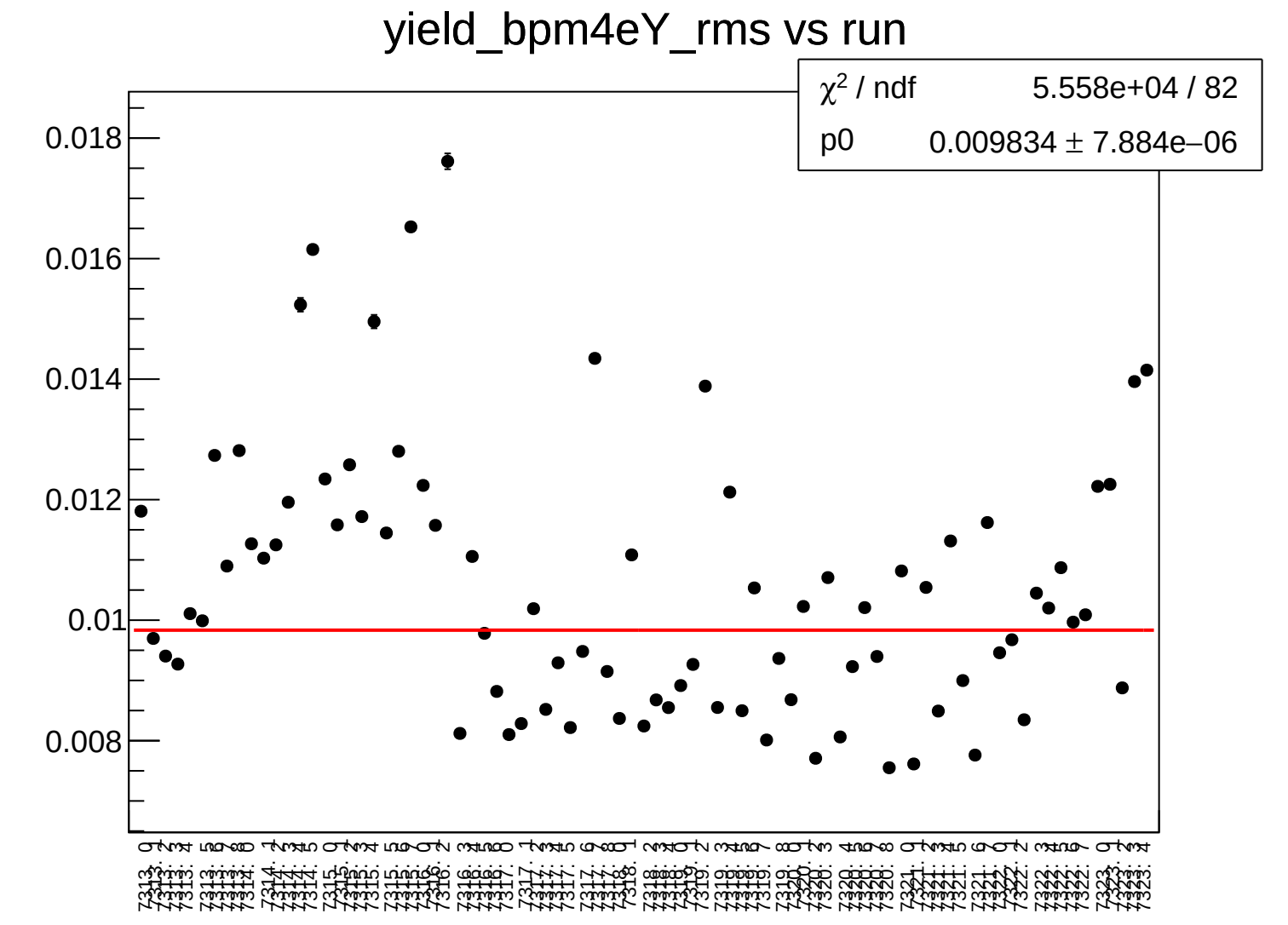

yield_bpm4eX_mean vs run
χ² / ndf 2.463e+05 / 82
p0 −0.3503 ± 2.05e−05
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
pull
Entries 83
Mean 46.4
Std Dev 30.12
100
50
0
−50
−100

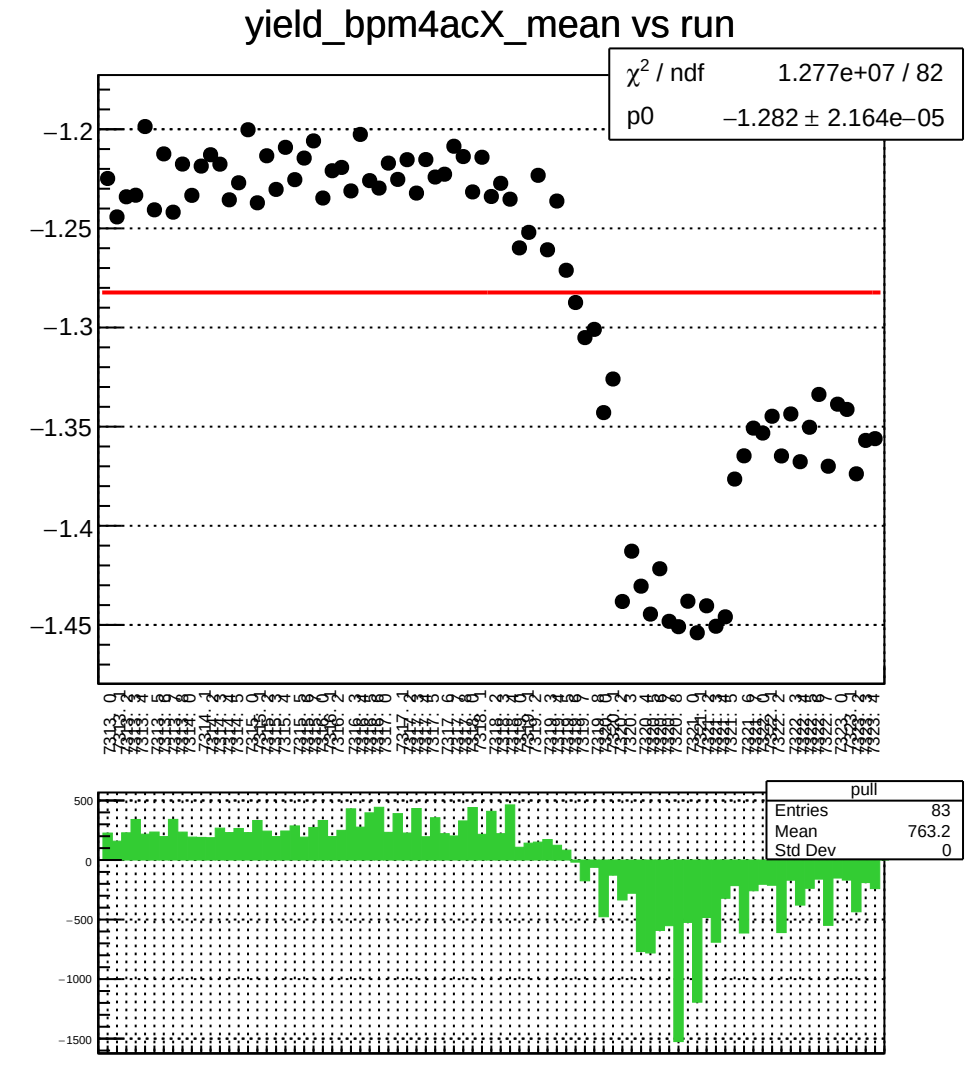

pull1D
Entries 83
Mean 0.2531
Std Dev 3.892
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

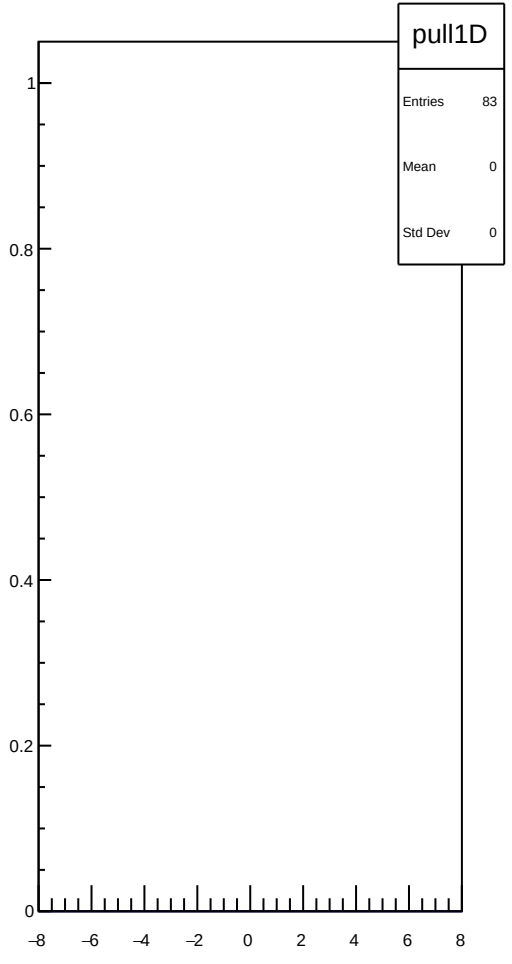

yield_bpm4eX_rms vs run
χ² / ndf 2.417e+05 / 82
p0 0.01696 ± 1.449e−05
0.035
0.03
0.025
0.02
0.015
0.01

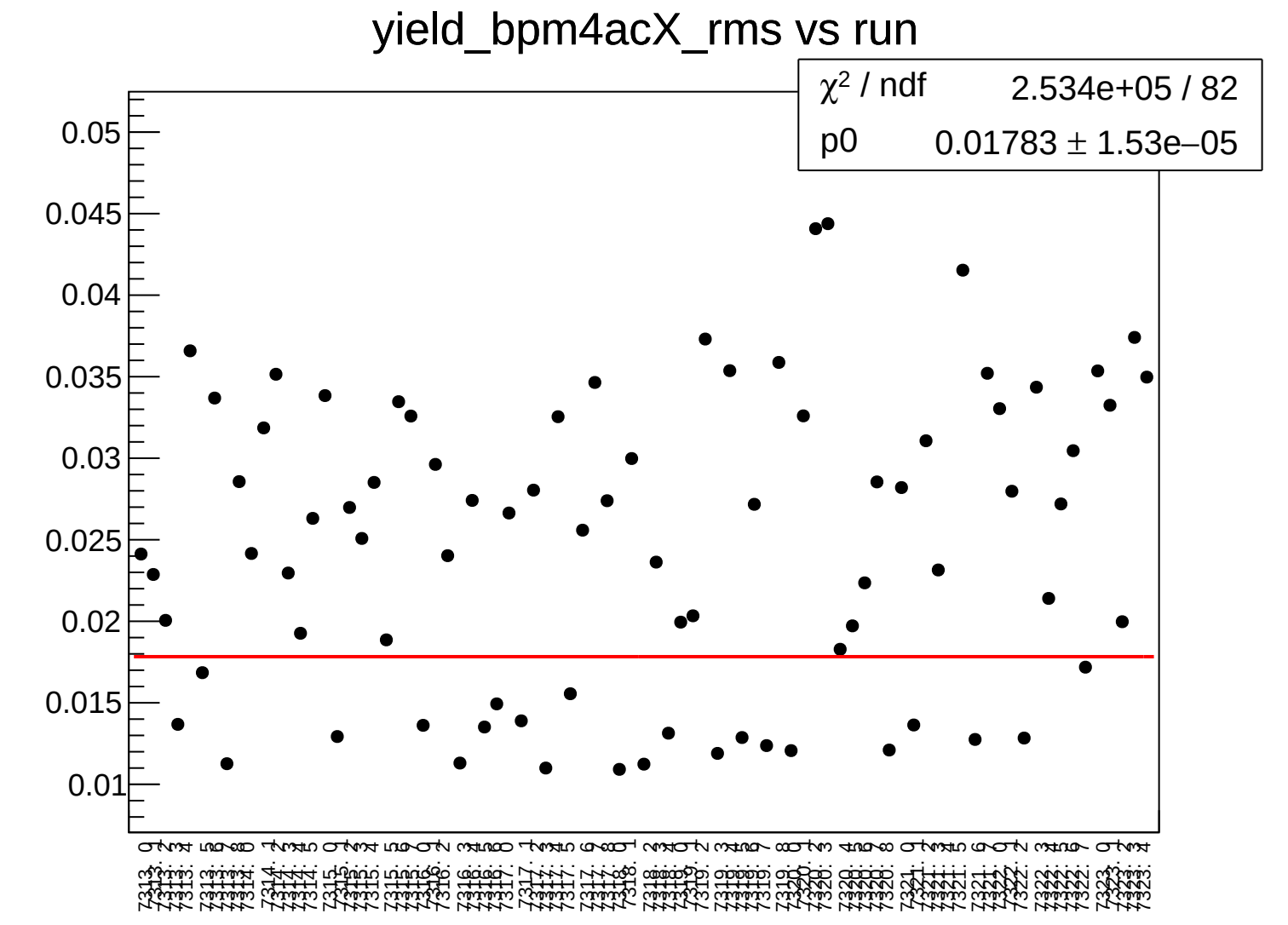

yield_bpm4eY_mean vs run
χ^2 / ndf 7.521e+04 / 82
p0 0.2921± 1.115e−05
0.3
0.295
0.29
0.285
0.28
pull
Entries 83
Mean −301.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

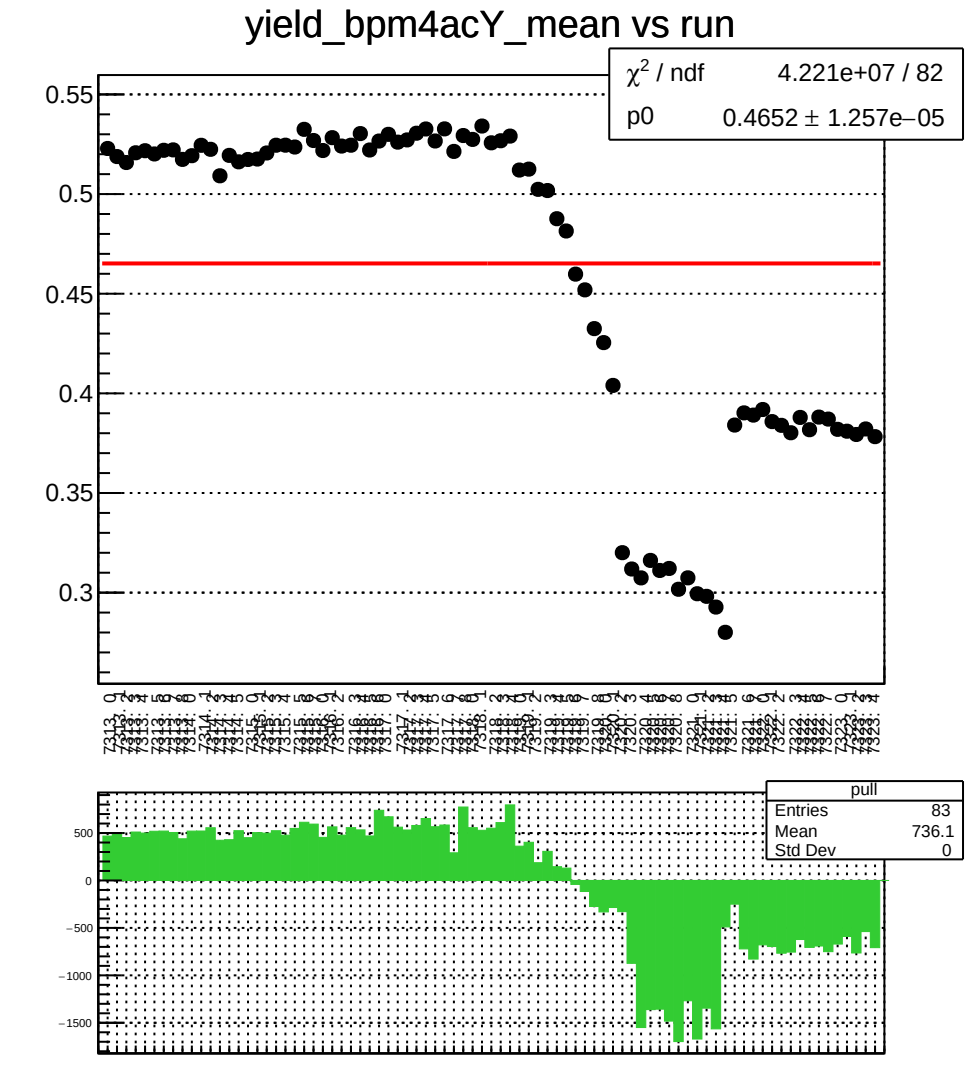

pull1D
Entries 83
Mean 0.6794
Std Dev 4.176
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

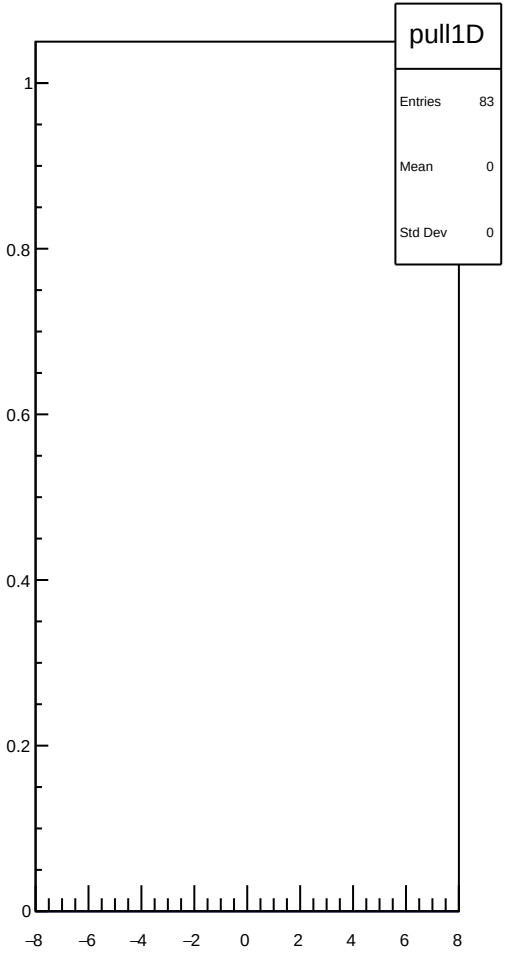

yield_bpm4eY_rms vs run
χ² / ndf 5.558e+04 / 82
p0 0.009834 ± 7.884e−06
0.018
0.016
0.014
0.012
0.01
0.008

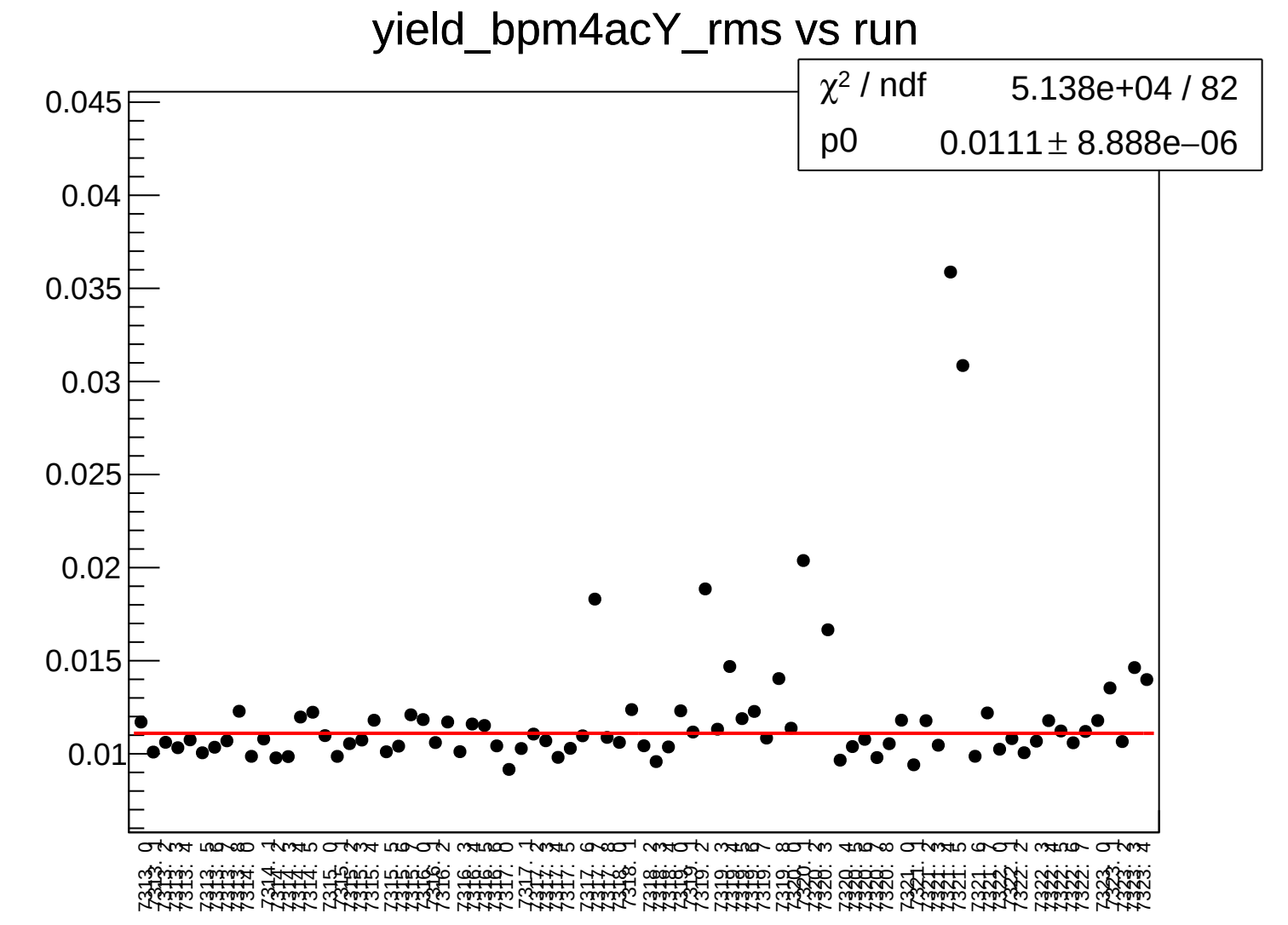

yield_bpm4acX_mean vs run
χ² / ndf 1.277e+07 / 82
p0 −1.282 ± 2.164e−05
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
pull
Entries 83
Mean 763.2
Std Dev 0
500
0
−500
−1000
−1500

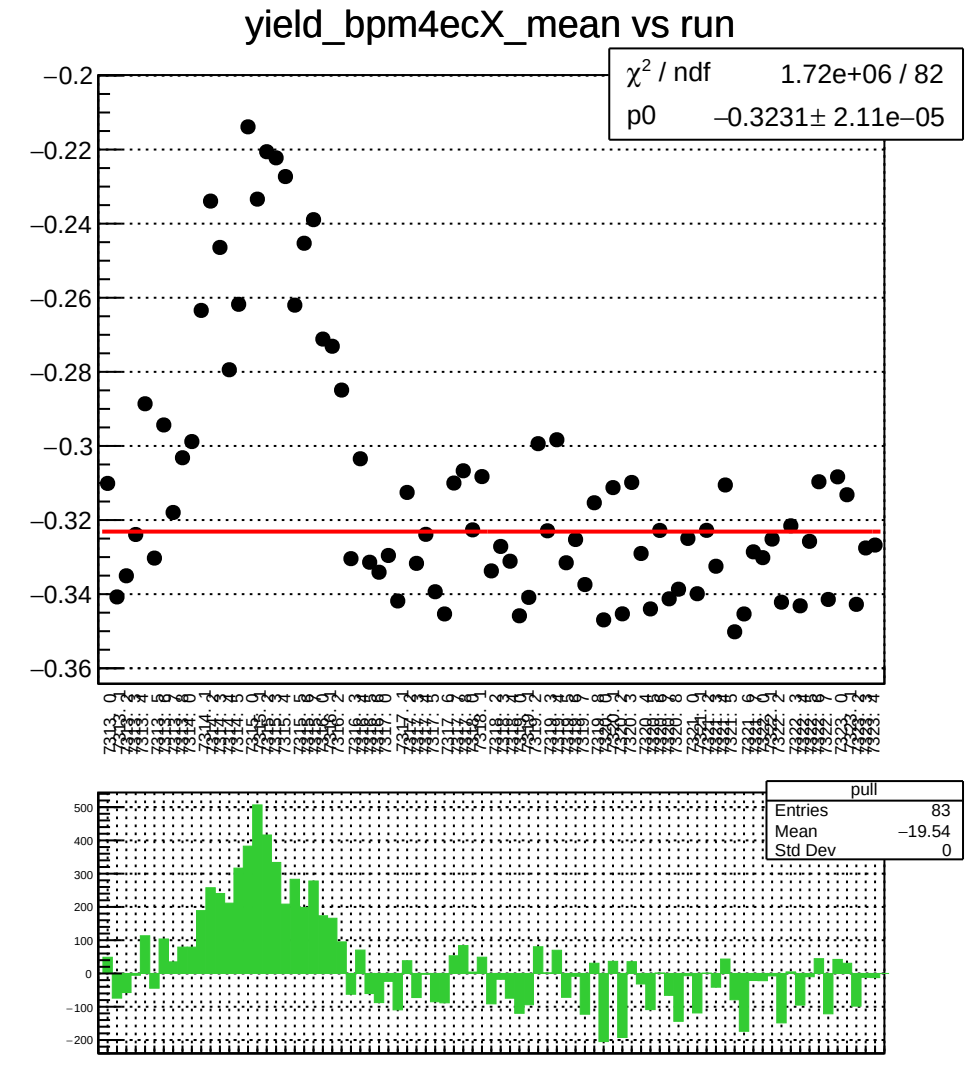

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

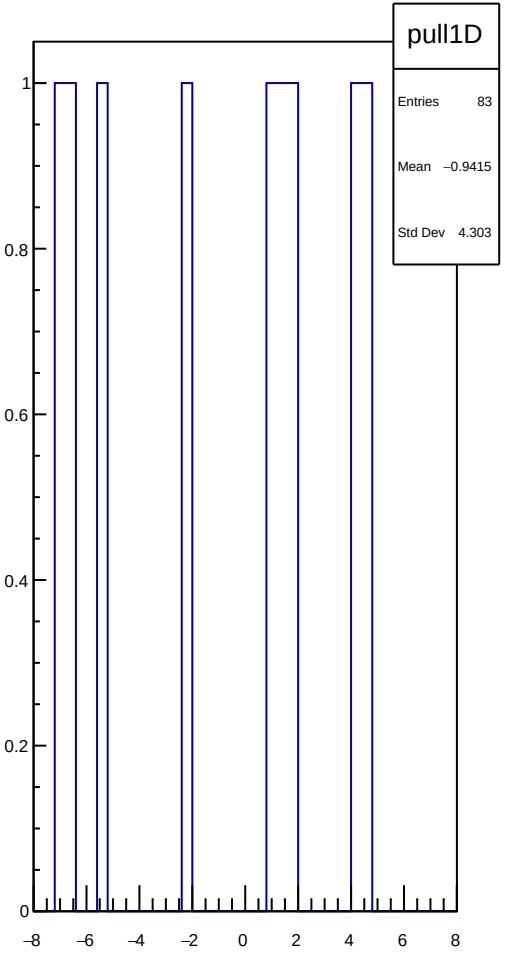

yield_bpm4acX_rms vs run
χ² / ndf 2.534e+05 / 82
p0 0.01783 ± 1.53e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

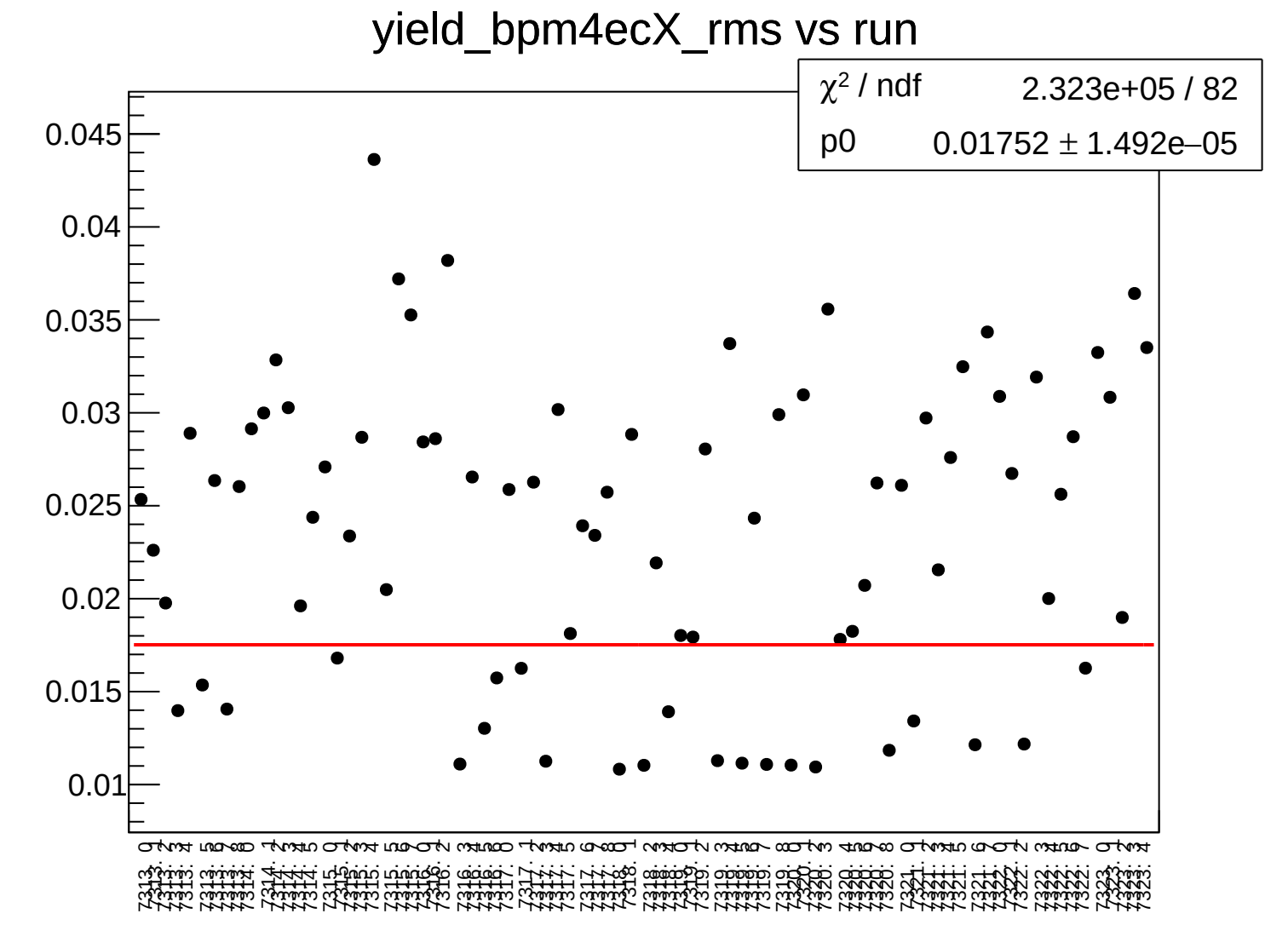

yield_bpm4acY_mean vs run
χ² / ndf 4.221e+07 / 82
p0 0.4652 ± 1.257e−05
0.55
0.5
0.45
0.4
0.35
0.3
pull
Entries 83
Mean 736.1
Std Dev 0
500
0
−500
−1000
−1500

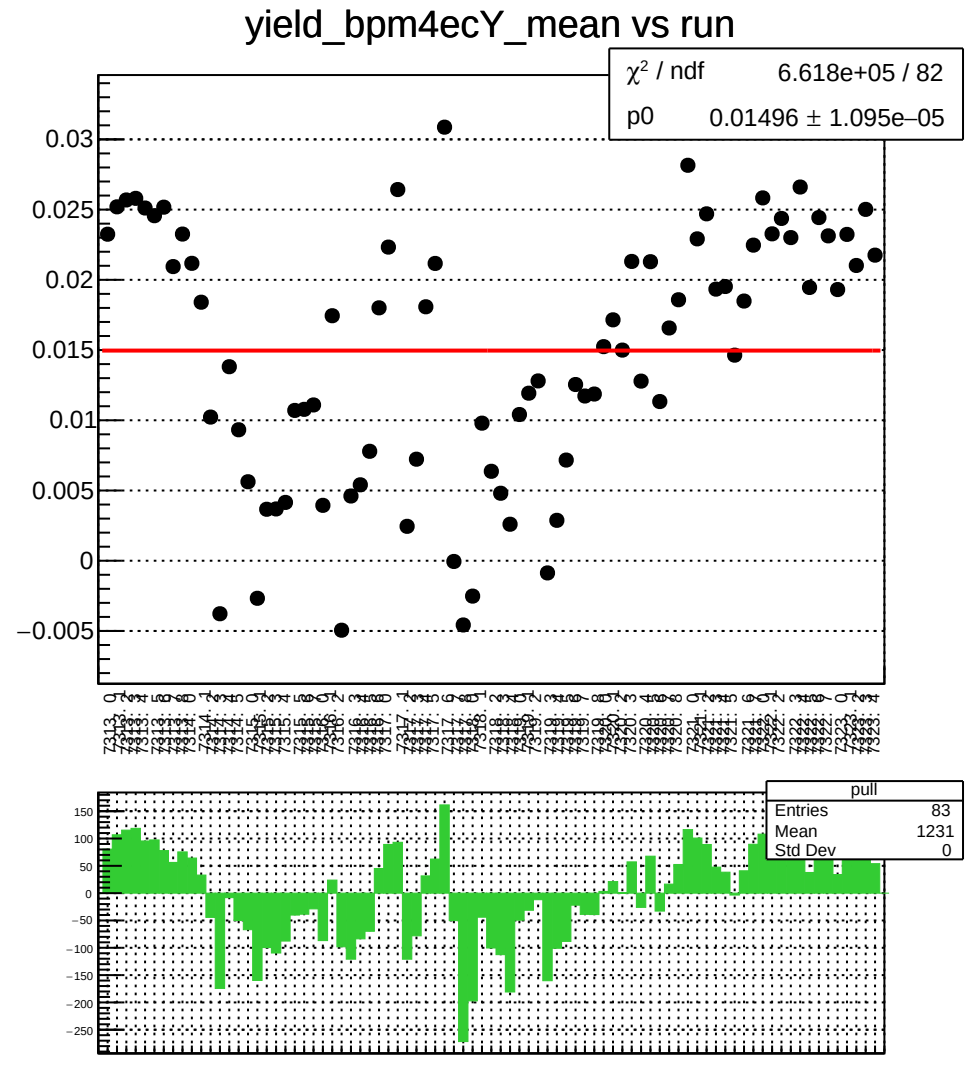

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

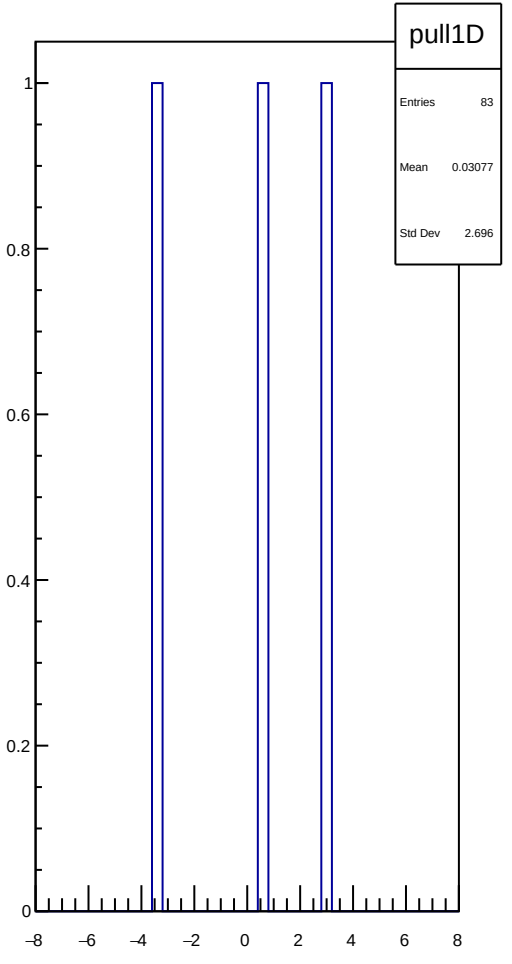

yield_bpm4acY_rms vs run
χ² / ndf 5.138e+04 / 82
p0 0.0111 ± 8.888e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

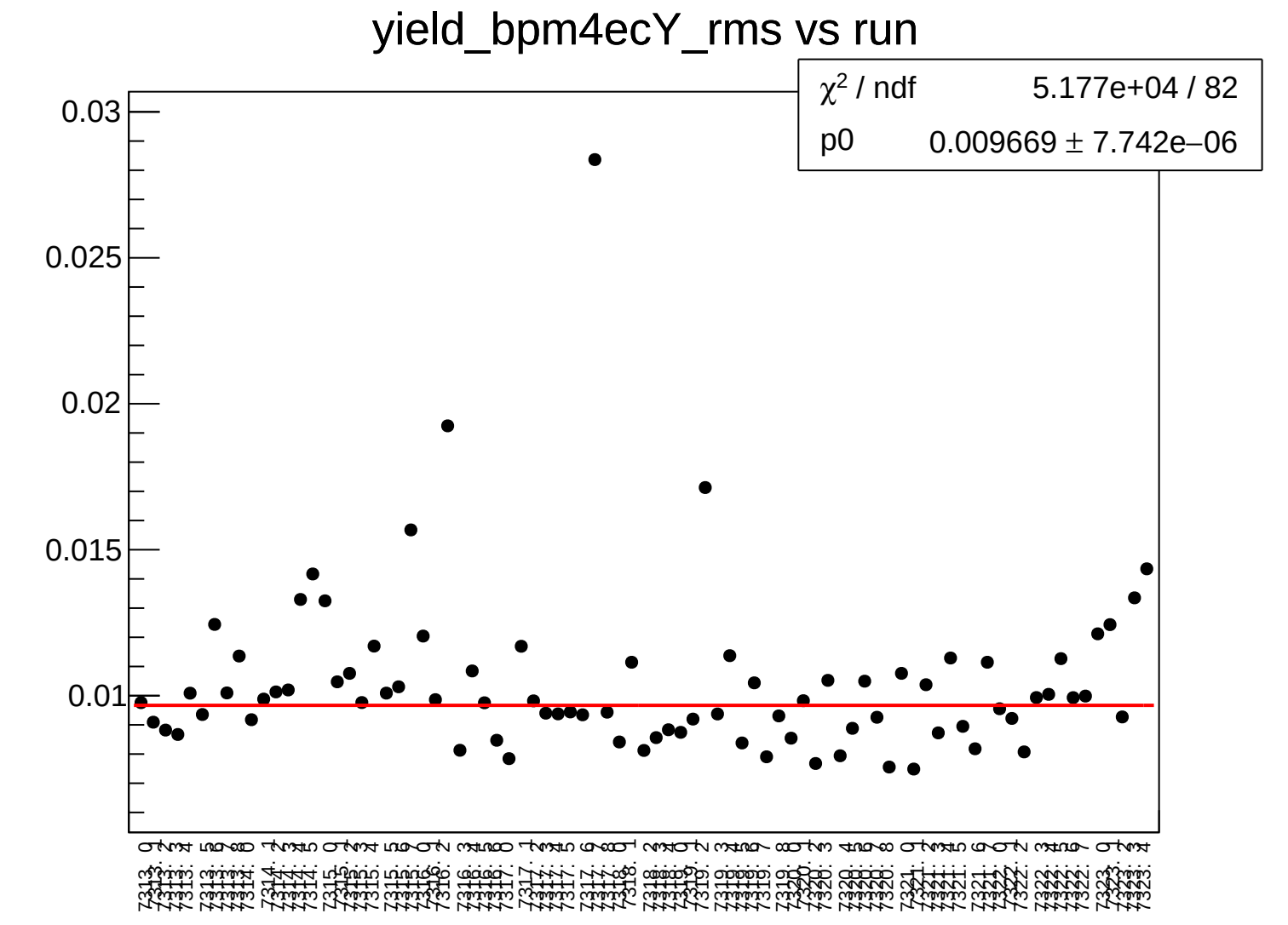

yield_bpm4ecX_mean vs run
χ² / ndf 1.72e+06 / 82
p0 −0.3231± 2.11e−05
pull
Entries 83
Mean −19.54
Std Dev 0

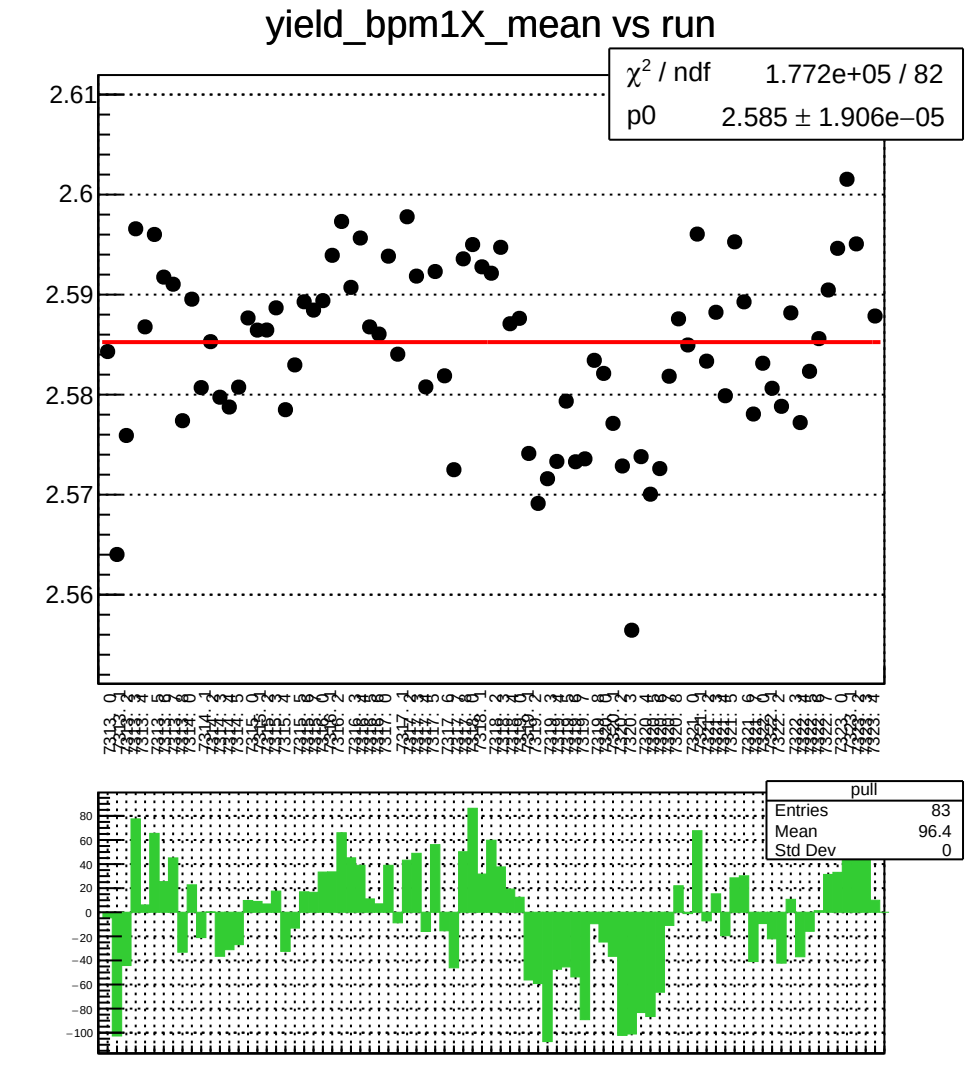

pull1D
Entries 83
Mean −0.9415
Std Dev 4.303

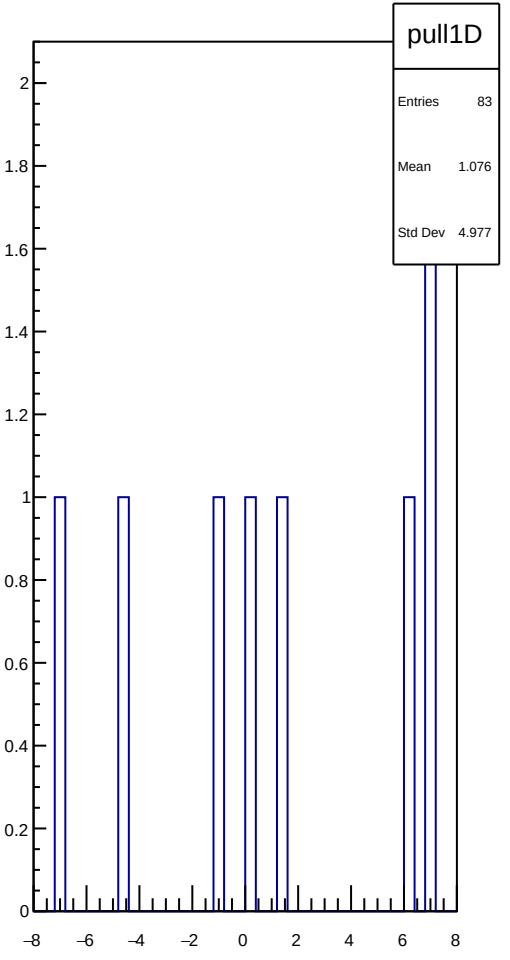

yield_bpm4ecX_rms vs run
χ² / ndf 2.323e+05 / 82
p0 0.01752 ± 1.492e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

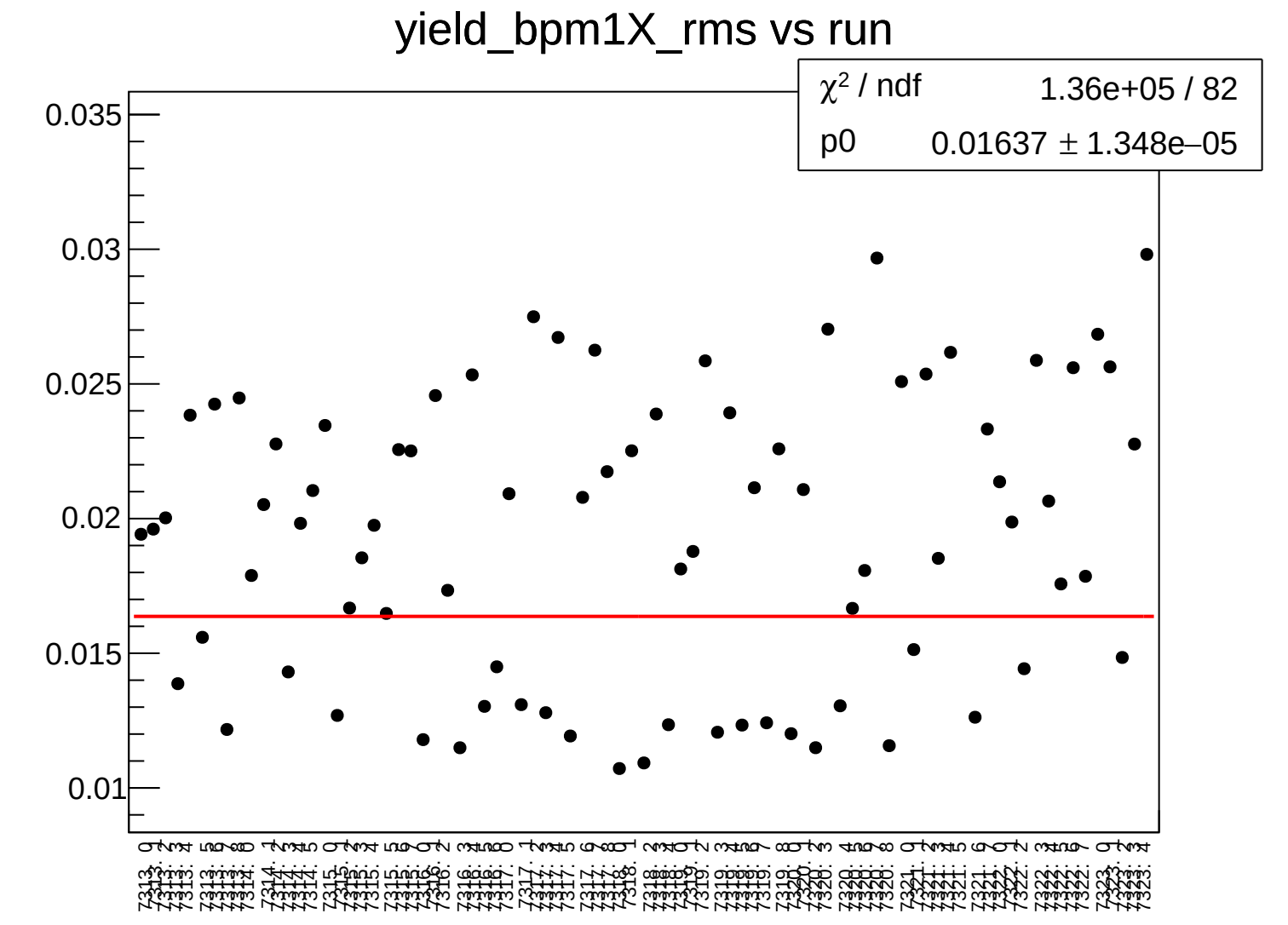

yield_bpm4ecY_mean vs run
χ² / ndf 6.618e+05 / 82
p0 0.01496 ± 1.095e−05
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 83
Mean 1231
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

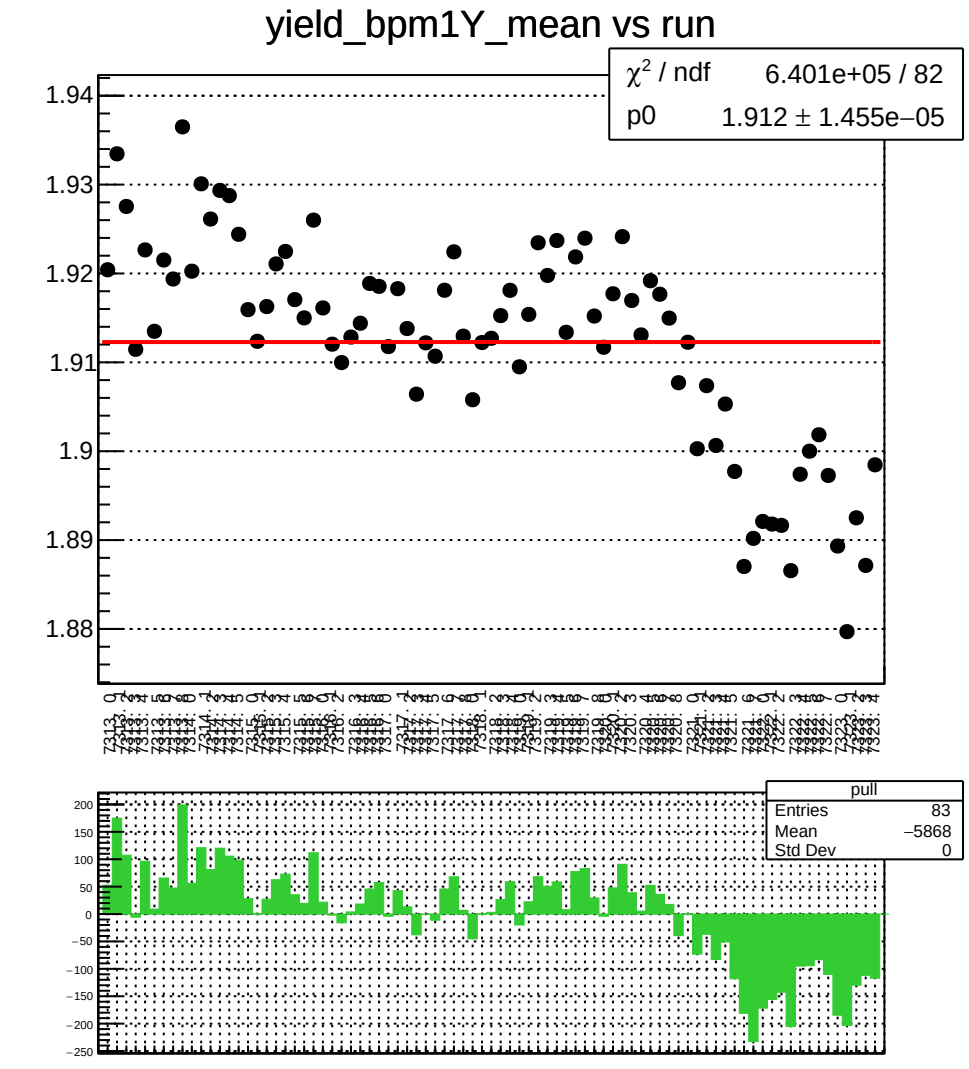

pull1D
Entries 83
Mean 0.03077
Std Dev 2.696
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

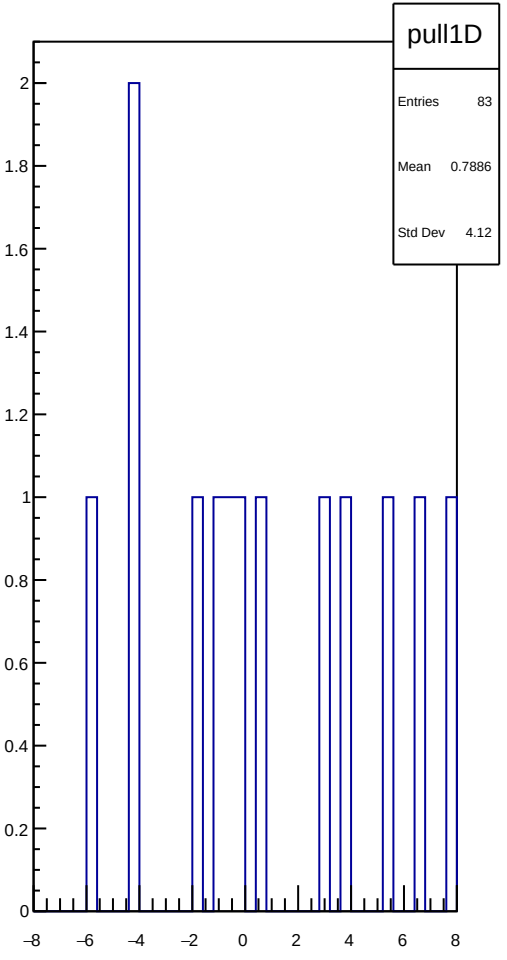

yield_bpm4ecY_rms vs run
χ² / ndf 5.177e+04 / 82
p0 0.009669 ± 7.742e−06
0.03
0.025
0.02
0.015
0.01

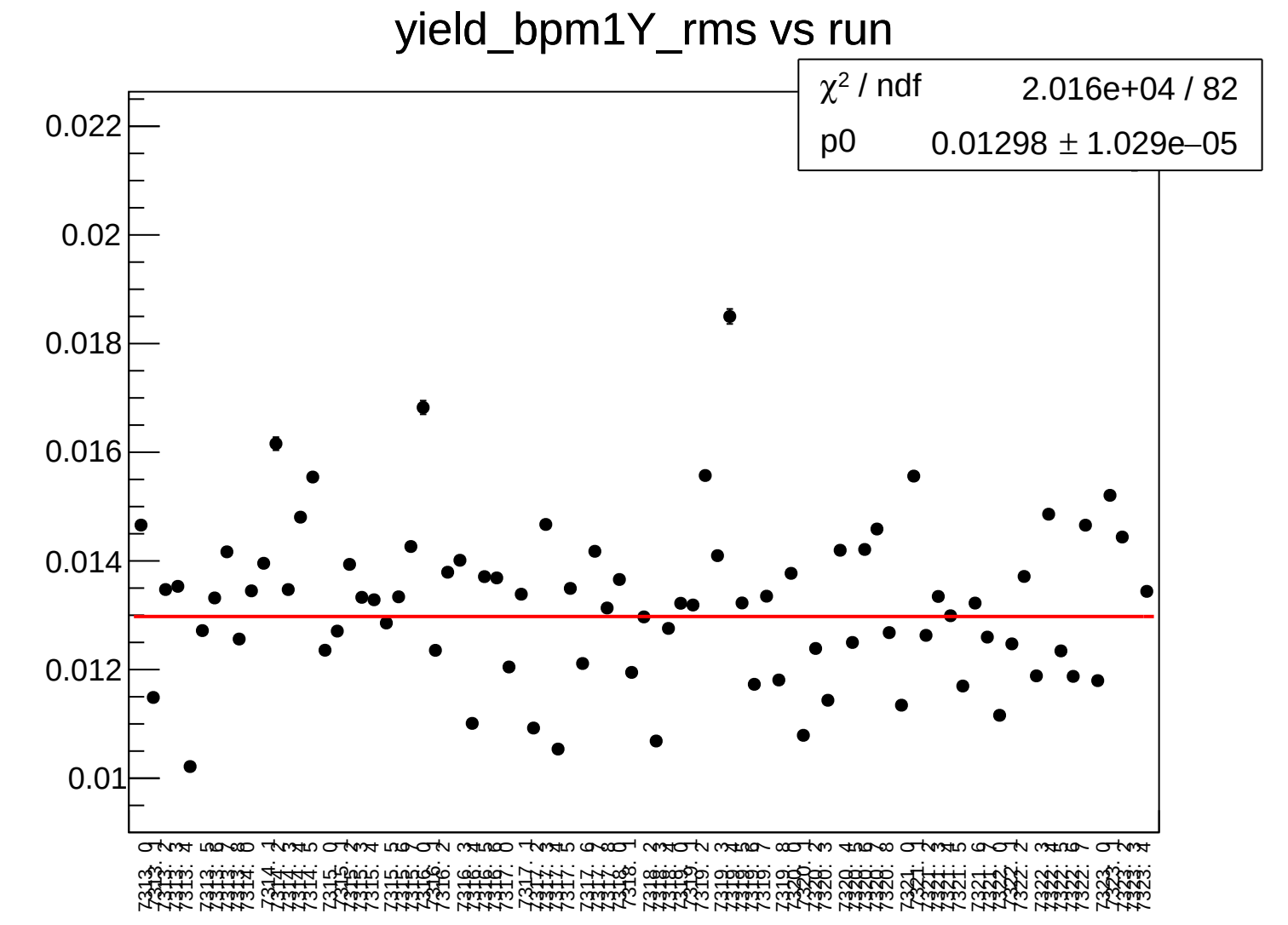

yield_bpm1X_mean vs run
χ² / ndf 1.772e+05 / 82
p0 2.585 ± 1.906e−05
2.61
2.6
2.59
2.58
2.57
2.56
pull
Entries 83
Mean 96.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

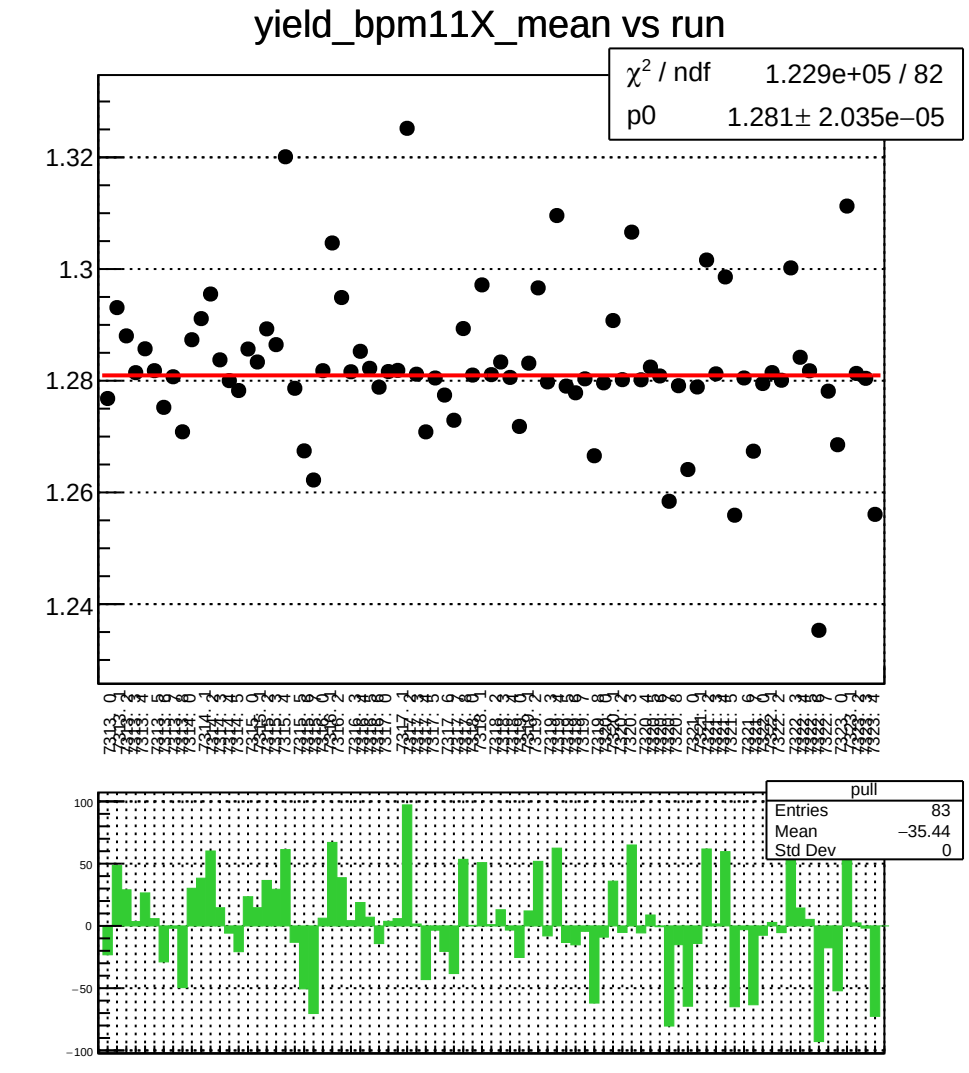

pull1D
Entries 83
Mean 1.076
Std Dev 4.977
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

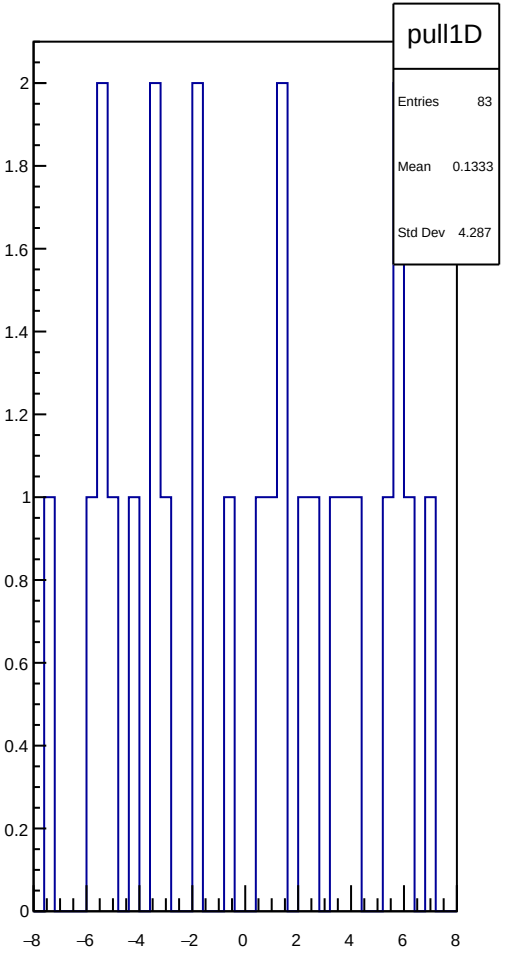

yield_bpm1X_rms vs run
χ² / ndf 1.36e+05 / 82
p0 0.01637 ± 1.348e−05
0.035
0.03
0.025
0.02
0.015
0.01

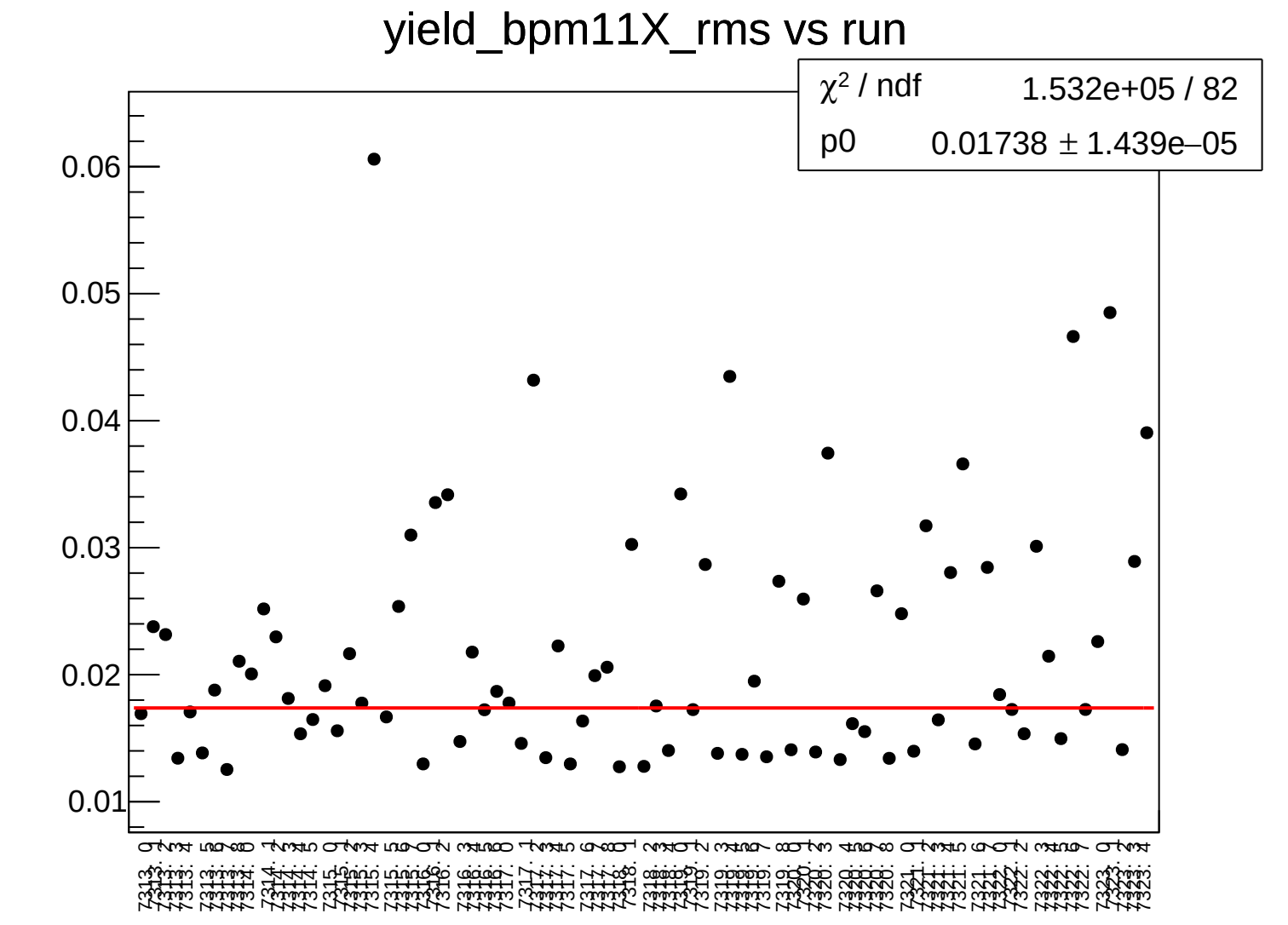

yield_bpm1Y_mean vs run
χ² / ndf 6.401e+05 / 82
p0 1.912 ± 1.455e−05
1.94
1.93
1.92
1.91
1.9
1.89
1.88
pull
Entries 83
Mean −5868
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

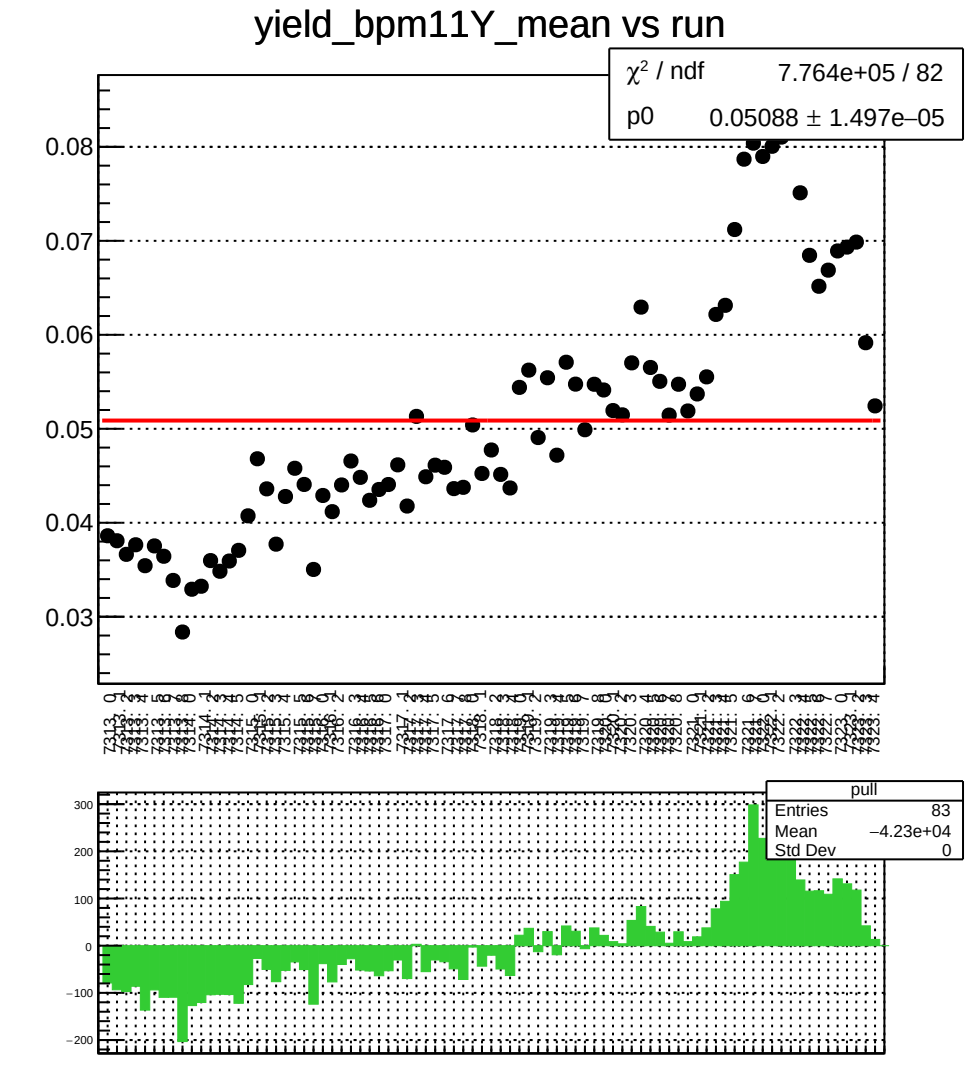

pull1D
Entries 83
Mean 0.7886
Std Dev 4.12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

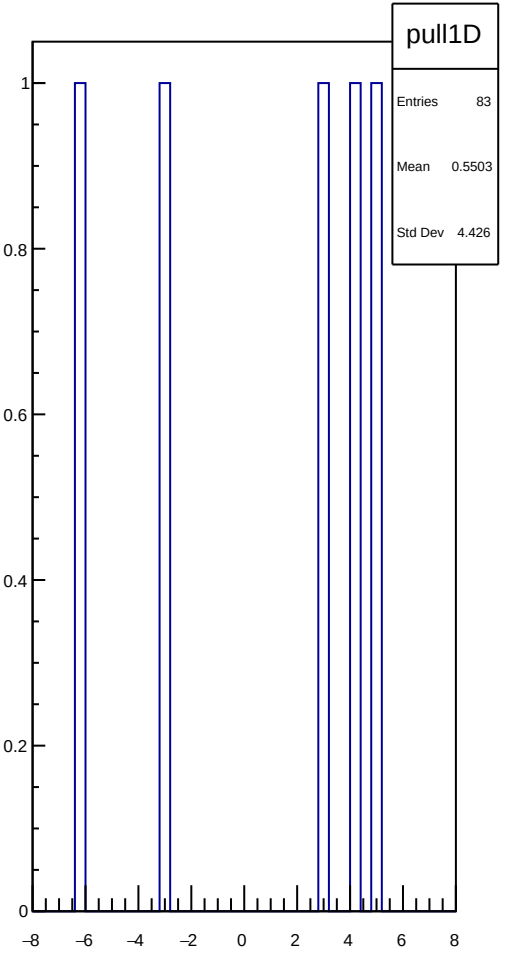

yield_bpm1Y_rms vs run
χ² / ndf 2.016e+04 / 82
p0 0.01298 ± 1.029e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

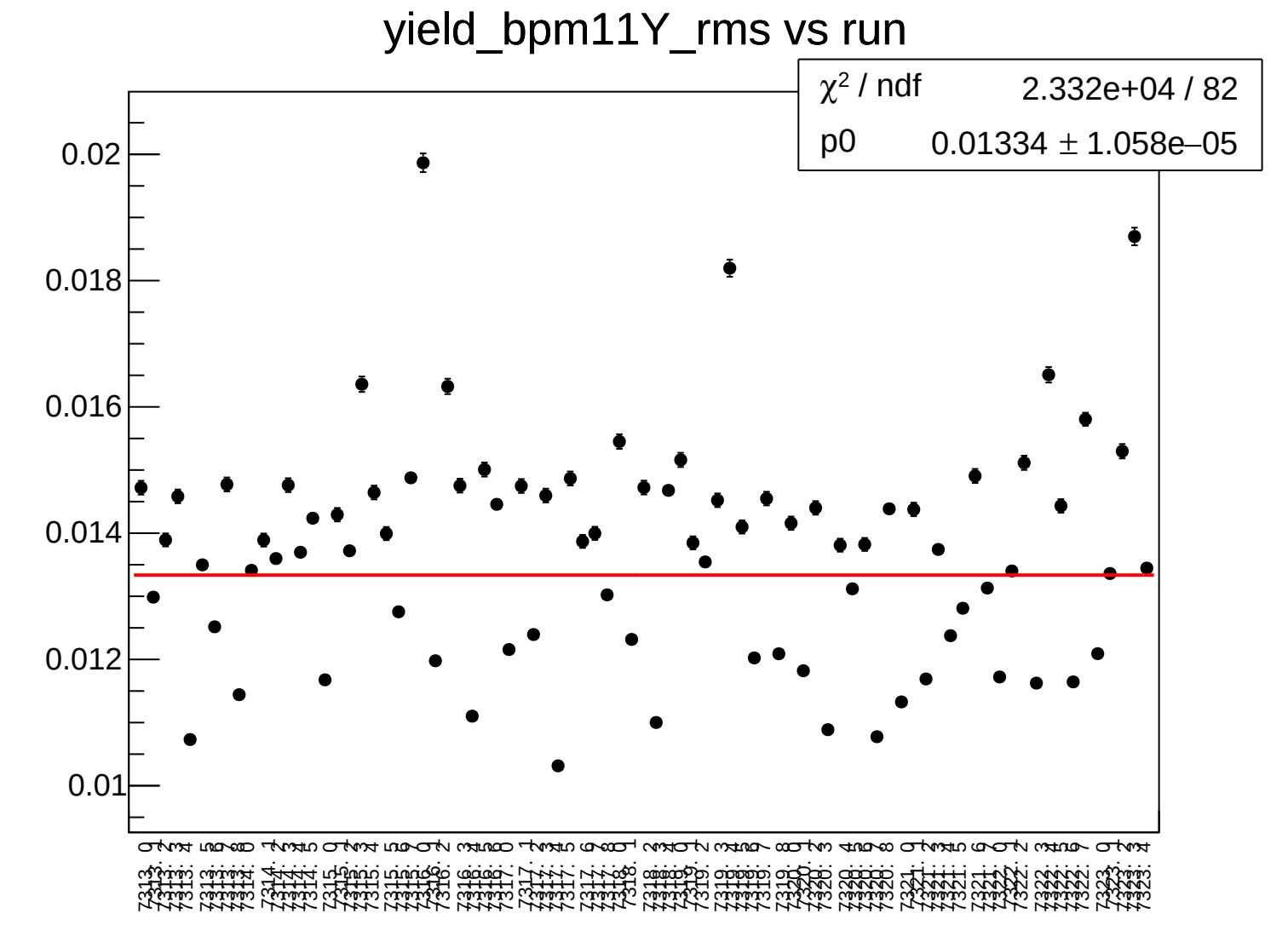

yield_bpm11X_mean vs run
χ² / ndf 1.229e+05 / 82
p0 1.281± 2.035e−05
1.32
1.3
1.28
1.26
1.24
pull
Entries 83
Mean −35.44
Std Dev 0
100
50
0
−50
−100

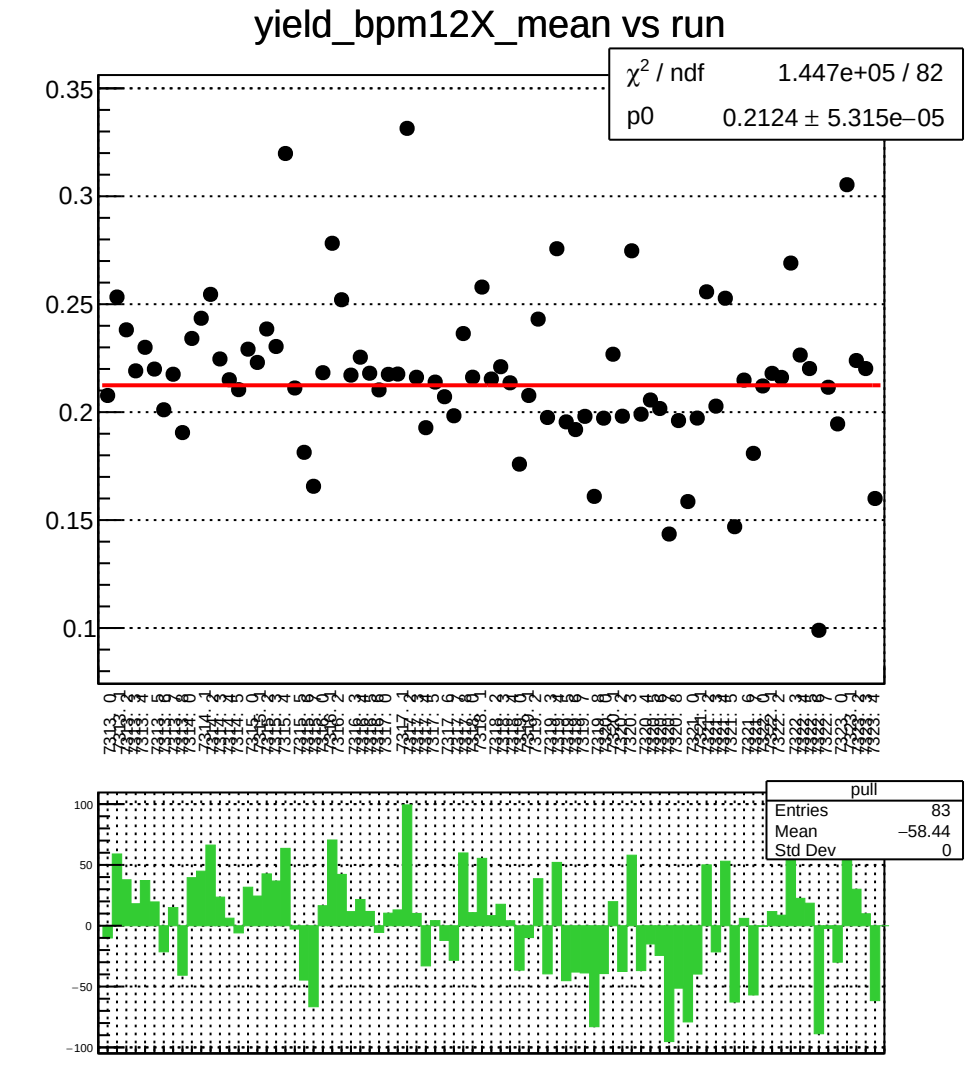

pull1D
Entries 83
Mean 0.1333
Std Dev 4.287
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

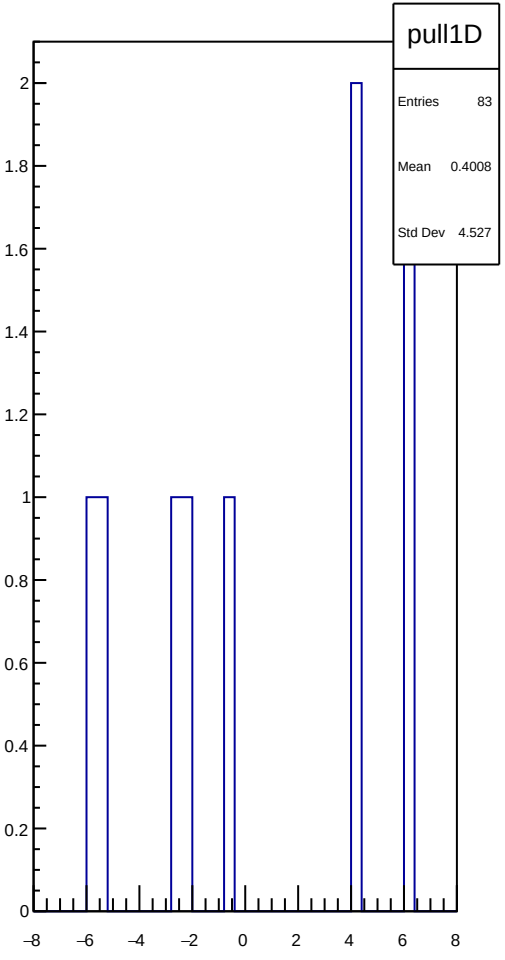

yield_bpm11X_rms vs run
χ² / ndf 1.532e+05 / 82
p0 0.01738 ± 1.439e−05
0.06
0.05
0.04
0.03
0.02
0.01

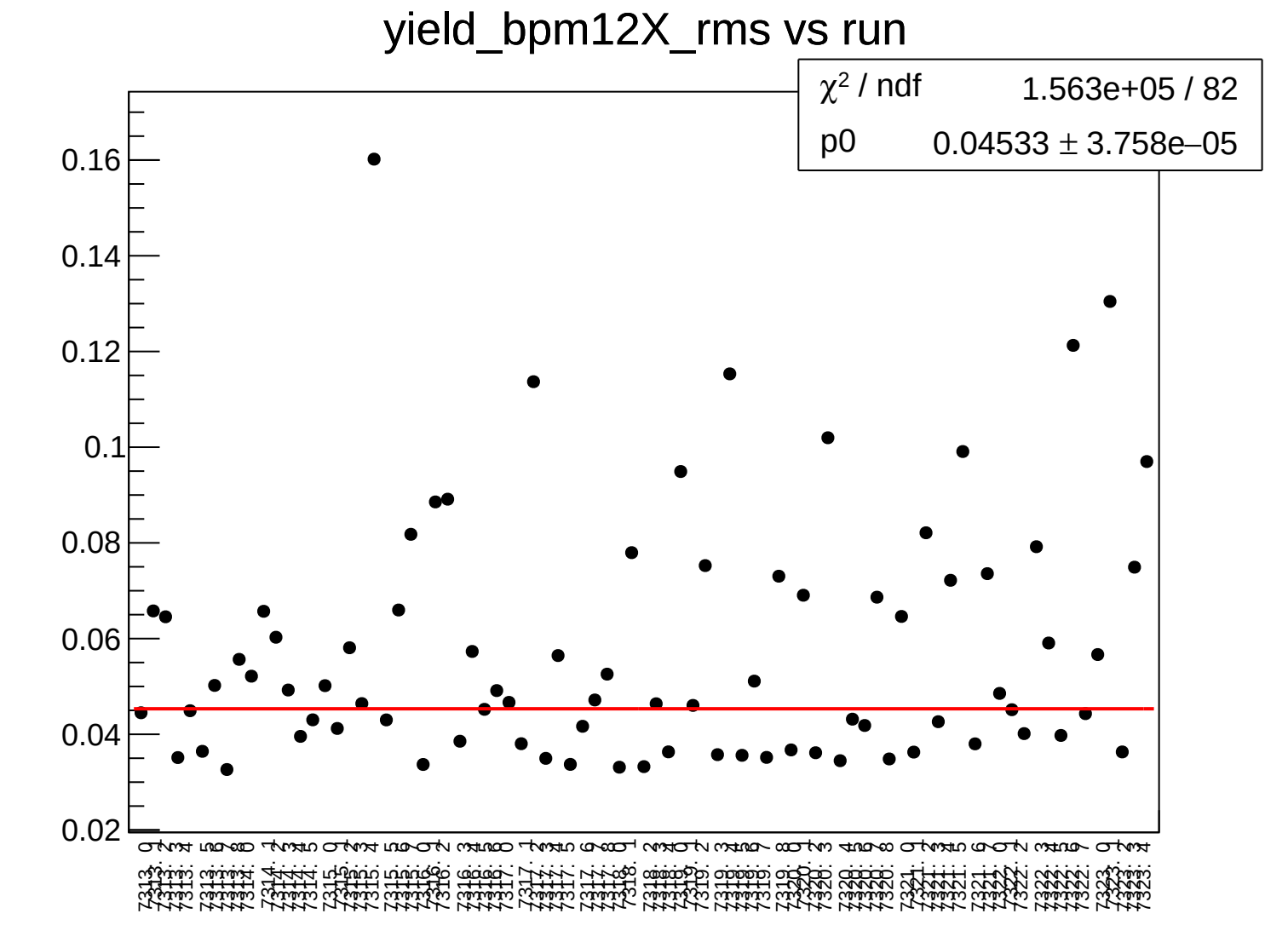

yield_bpm11Y_mean vs run
χ² / ndf 7.764e+05 / 82
p0 0.05088 ± 1.497e−05
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 83
Mean −4.23e+04
Std Dev 0
300
200
100
0
−100
−200

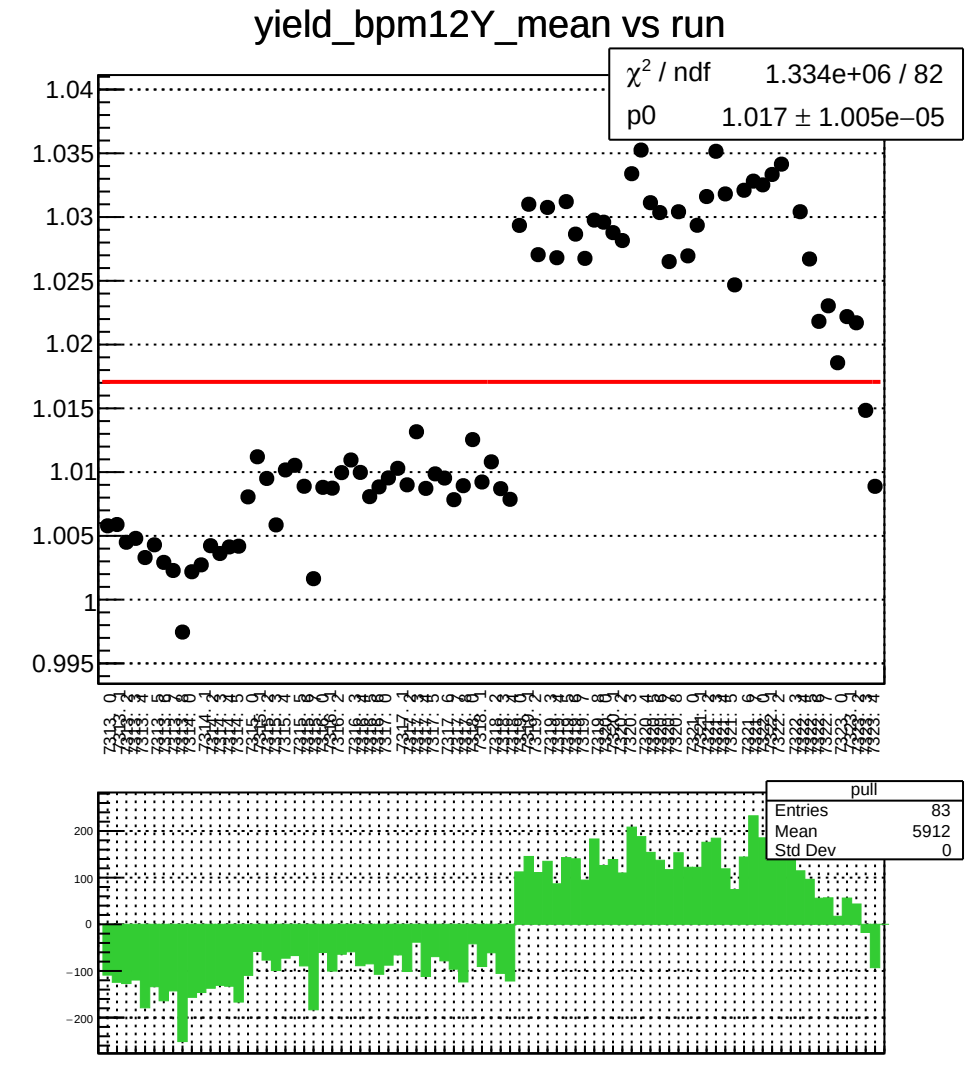

pull1D
Entries 83
Mean 0.5503
Std Dev 4.426
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

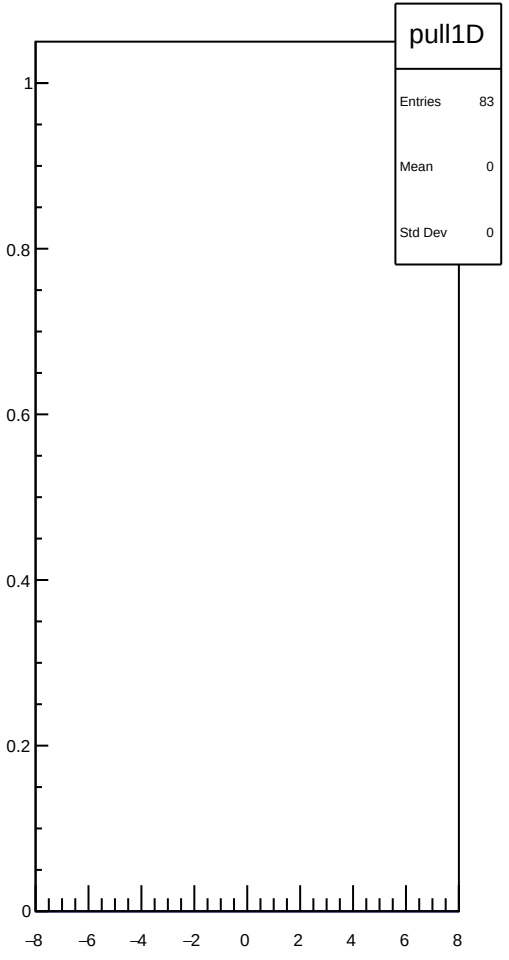

yield_bpm11Y_rms vs run
χ² / ndf 2.332e+04 / 82
p0 0.01334 ± 1.058e−05
0.02
0.018
0.016
0.014
0.012
0.01

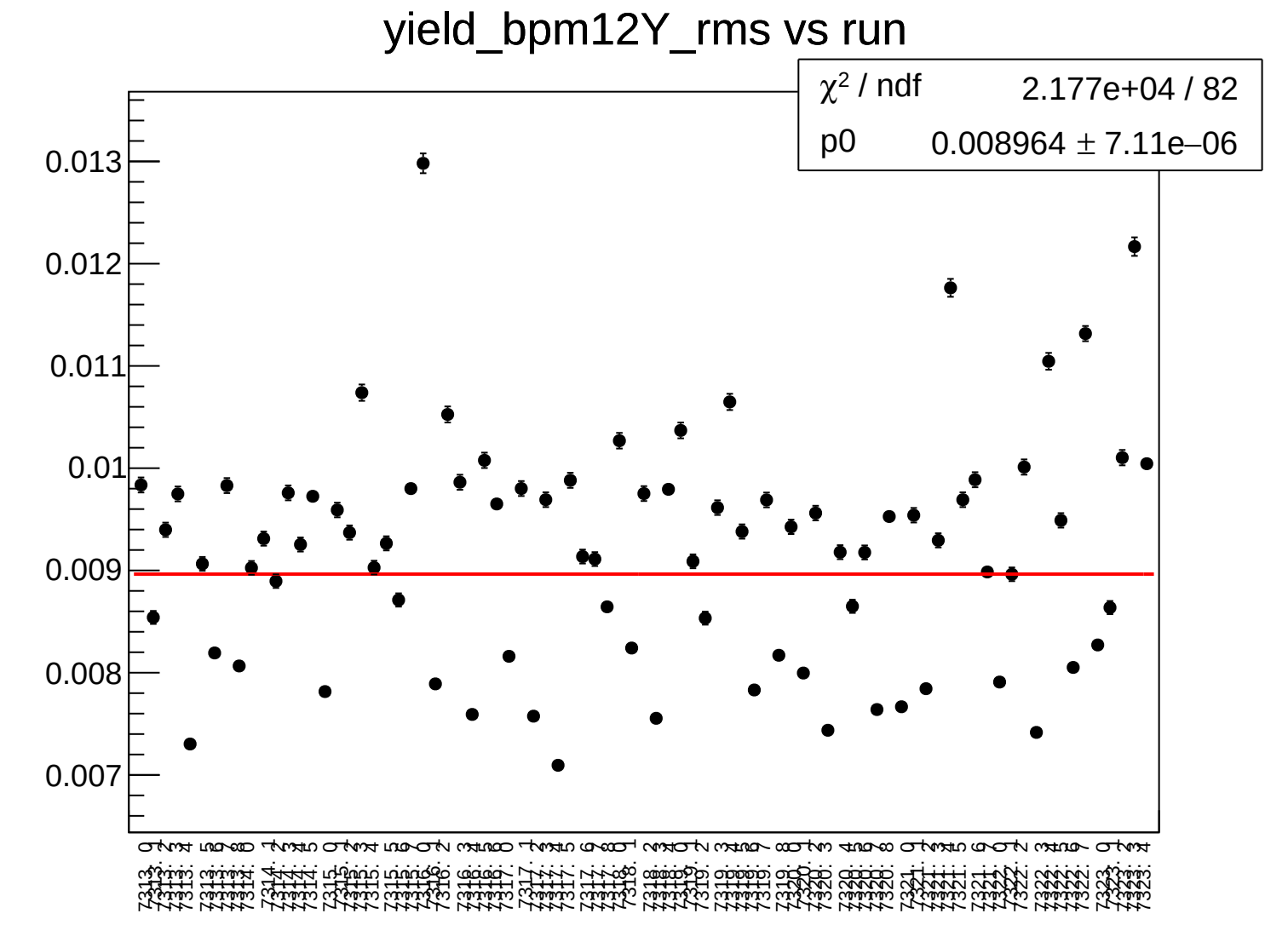

yield_bpm12X_mean vs run
χ² / ndf 1.447e+05 / 82
p0 0.2124 ± 5.315e−05
0.35
0.3
0.25
0.2
0.15
0.1
pull
Entries 83
Mean −58.44
Std Dev 0
100
50
0
−50
−100

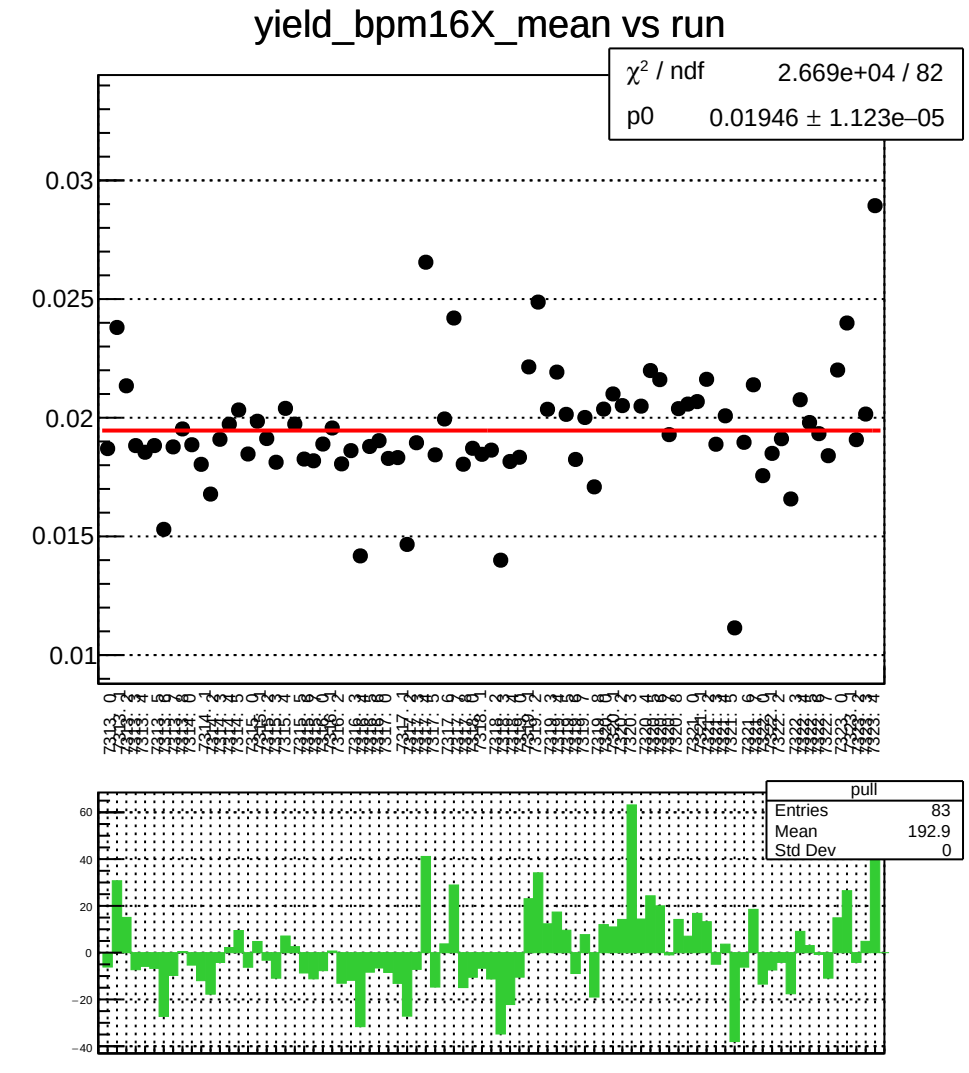

pull1D
Entries 83
Mean 0.4008
Std Dev 4.527
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

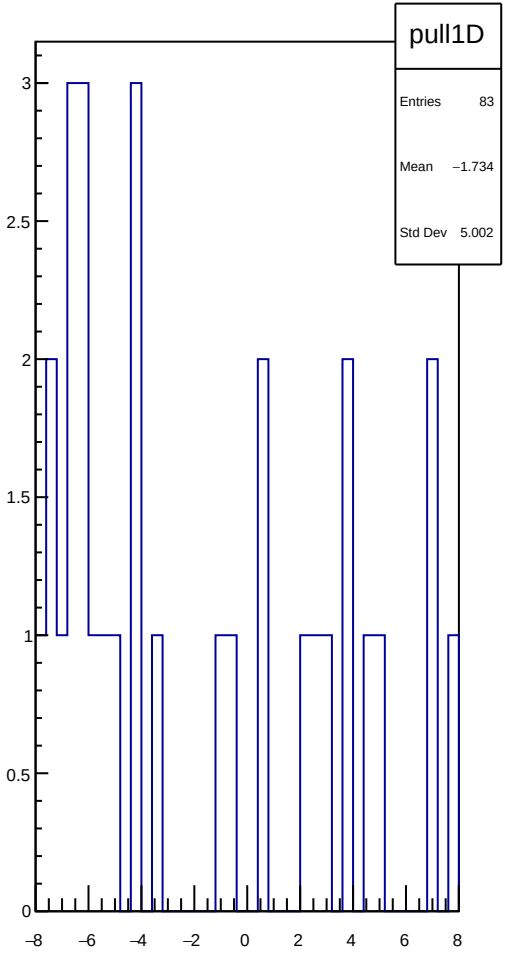

yield_bpm12X_rms vs run
χ² / ndf 1.563e+05 / 82
p0 0.04533 ± 3.758e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

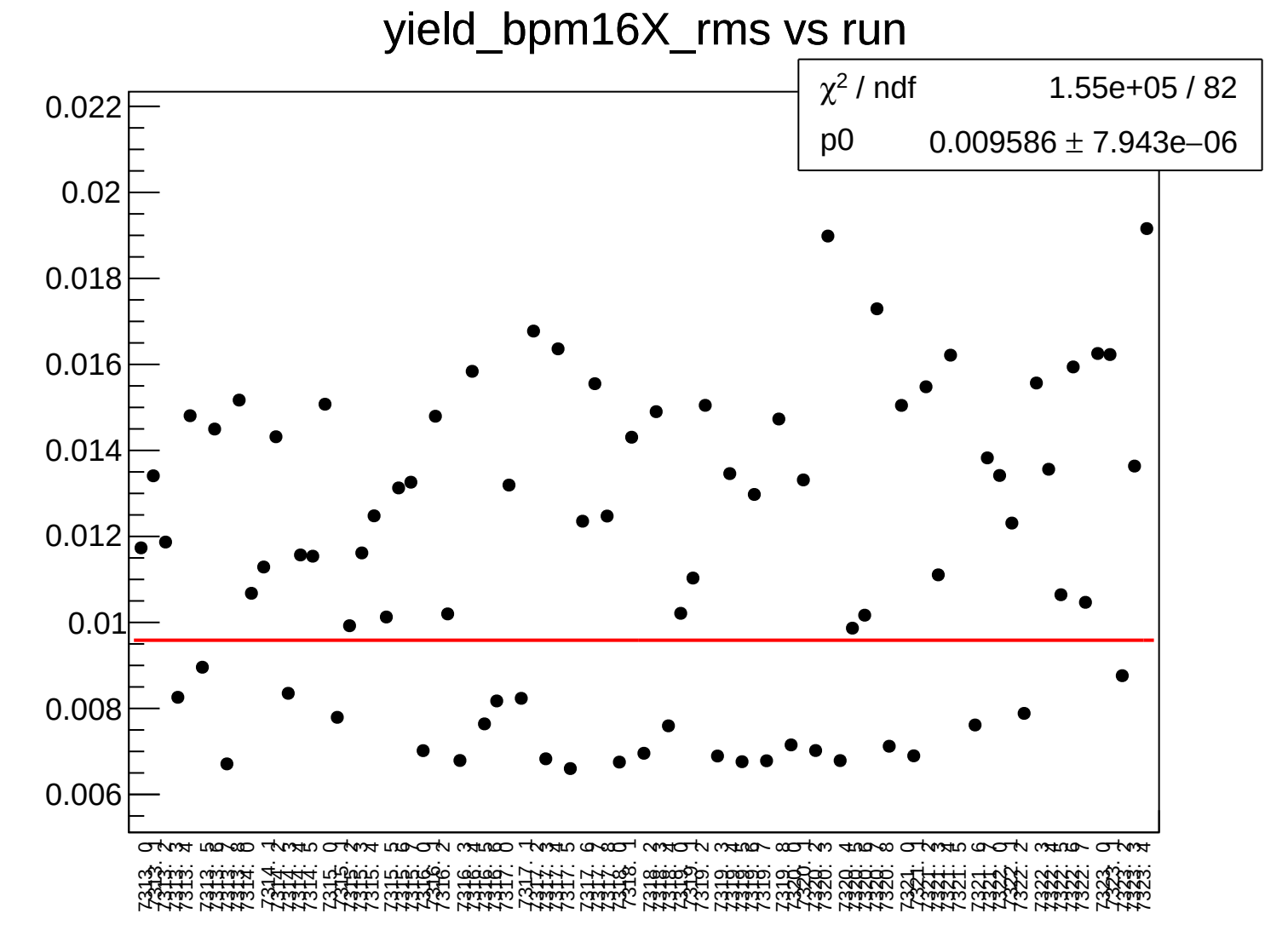

yield_bpm12Y_mean vs run
χ² / ndf 1.334e+06 / 82
p0 1.017 ± 1.005e−05
1.04
1.035
1.03
1.025
1.02
1.015
1.01
1.005
1
0.995
pull
Entries 83
Mean 5912
Std Dev 0
200
100
0
−100
−200

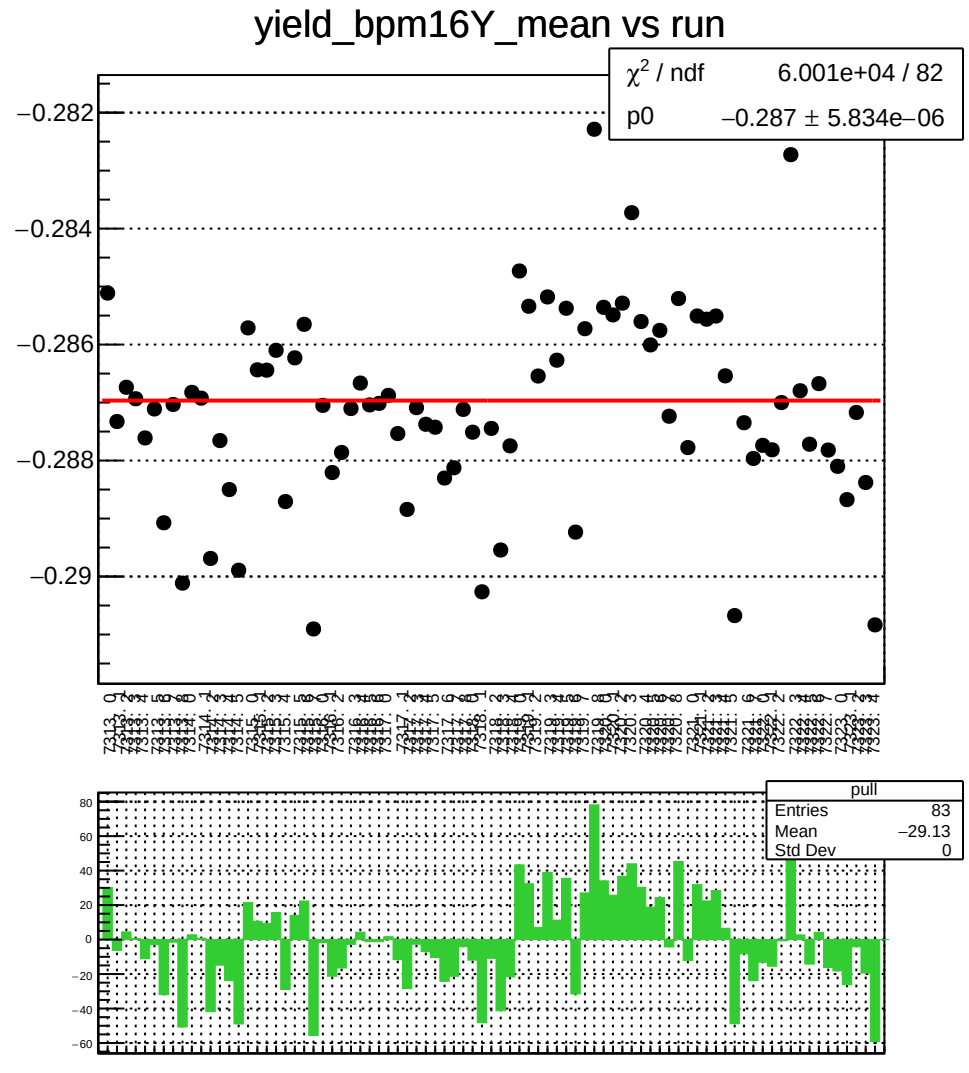

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

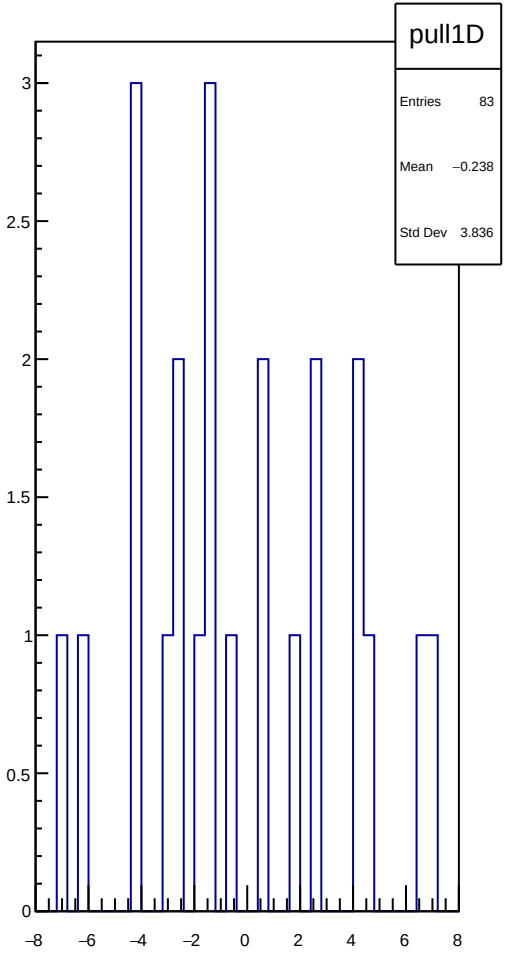

yield_bpm12Y_rms vs run
χ² / ndf 2.177e+04 / 82
p0 0.008964 ± 7.11e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

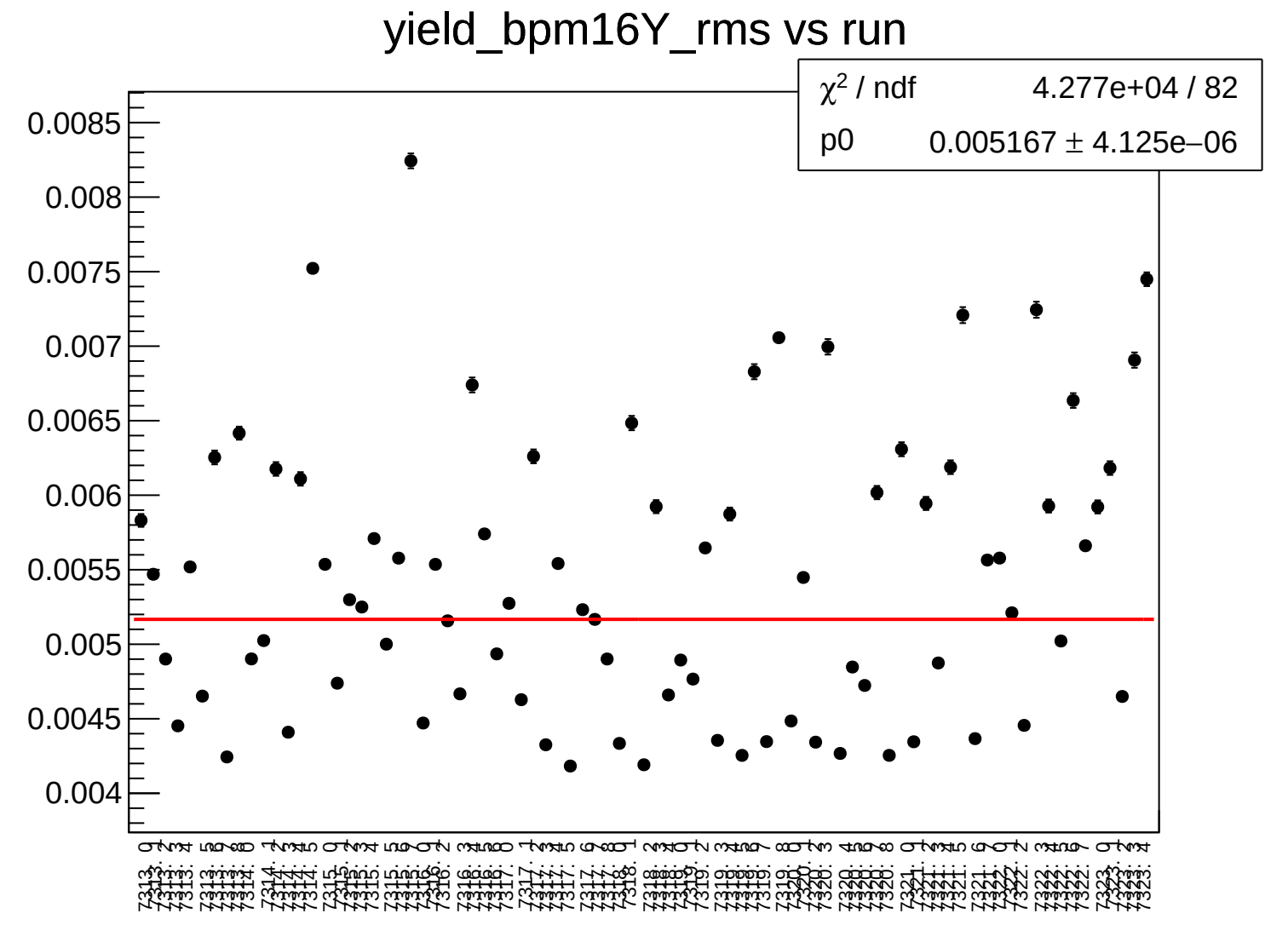

yield_bpm16X_mean vs run
χ² / ndf 2.669e+04 / 82
p0 0.01946 ± 1.123e−05
0.03
0.025
0.02
0.015
0.01
pull
Entries 83
Mean 192.9
Std Dev 0
60
40
20
0
−20
−40

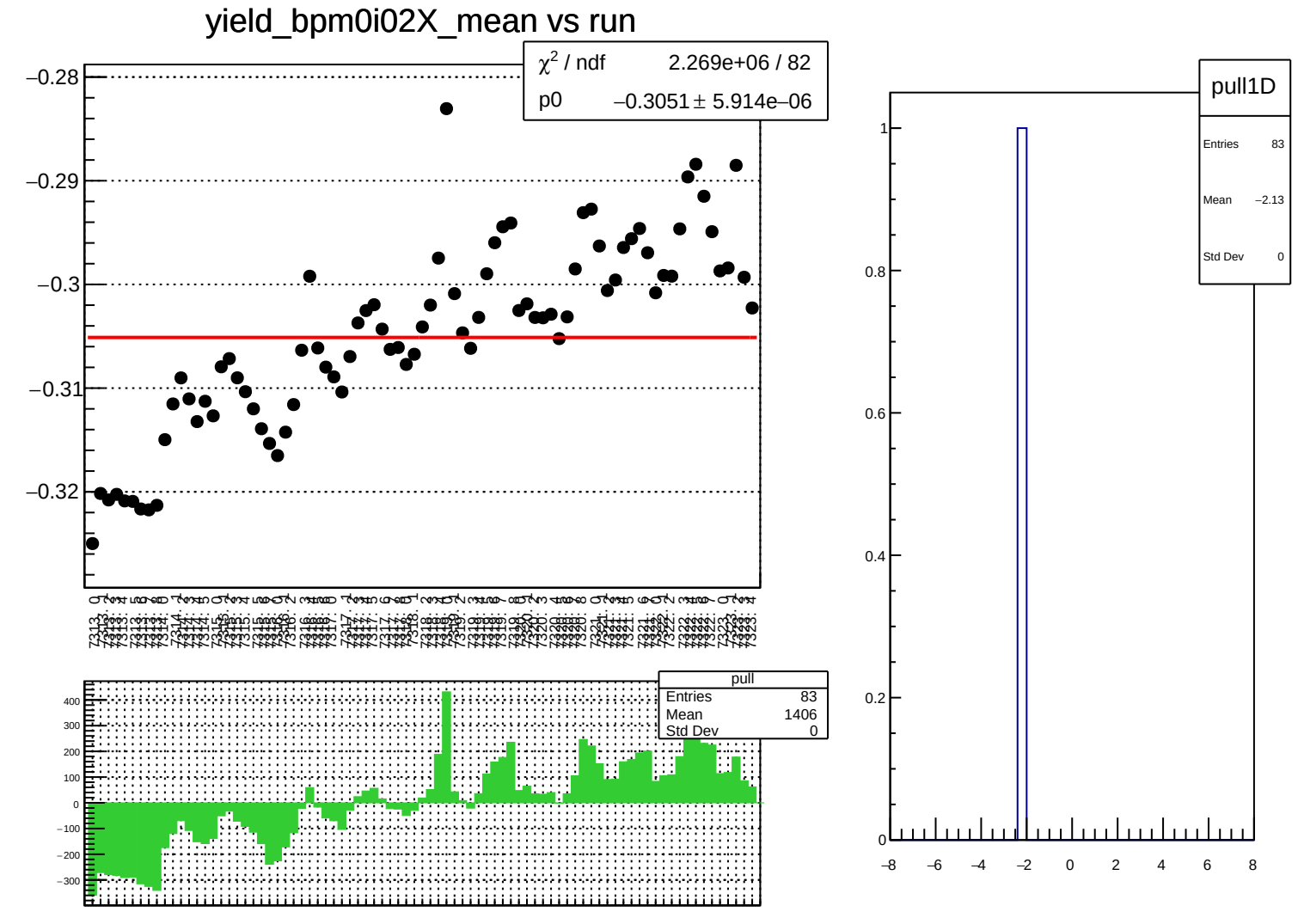

pull1D
Entries 83
Mean −1.734
Std Dev 5.002
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

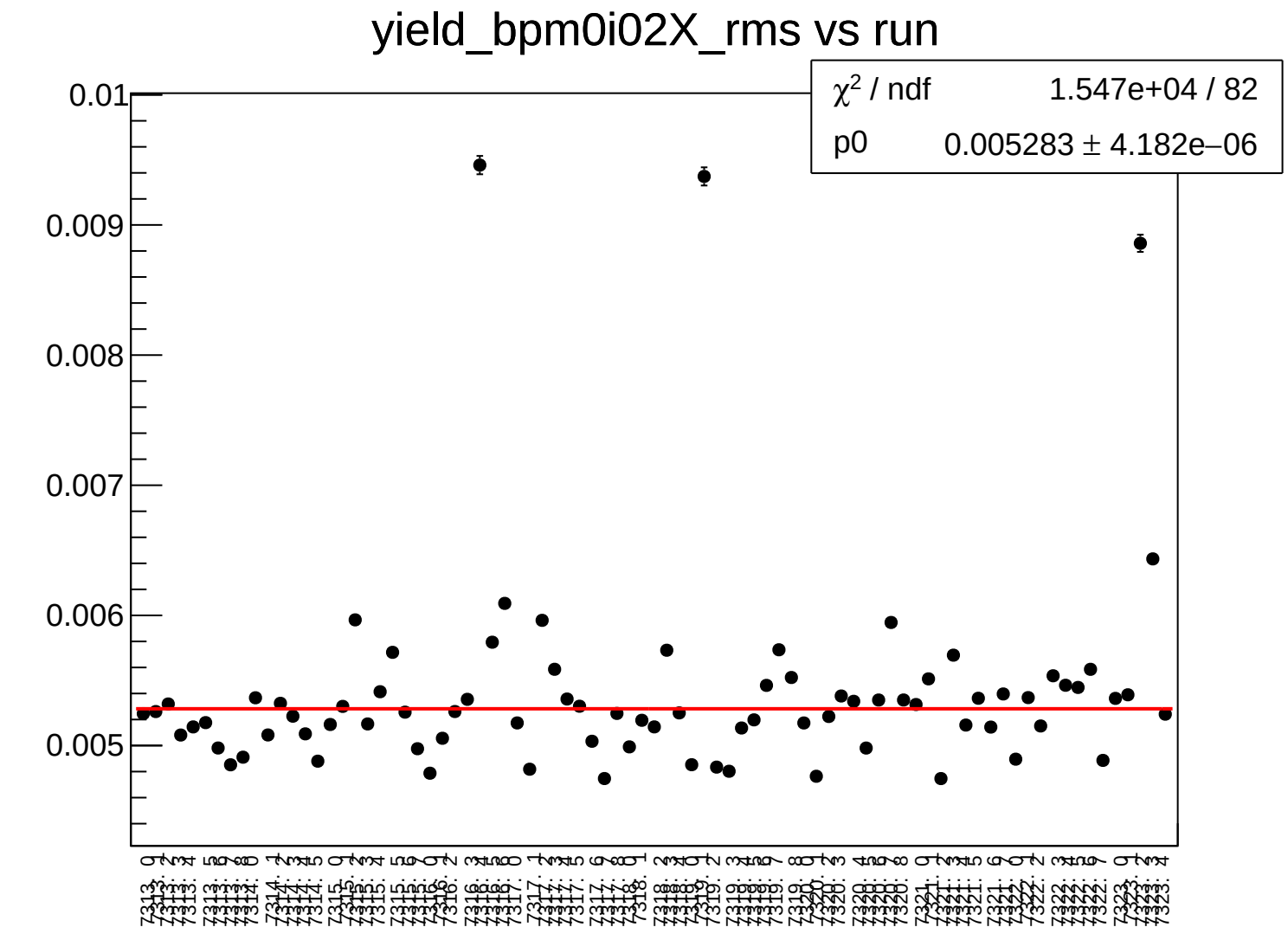

yield_bpm16X_rms vs run
χ² / ndf 1.55e+05 / 82
p0 0.009586 ± 7.943e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

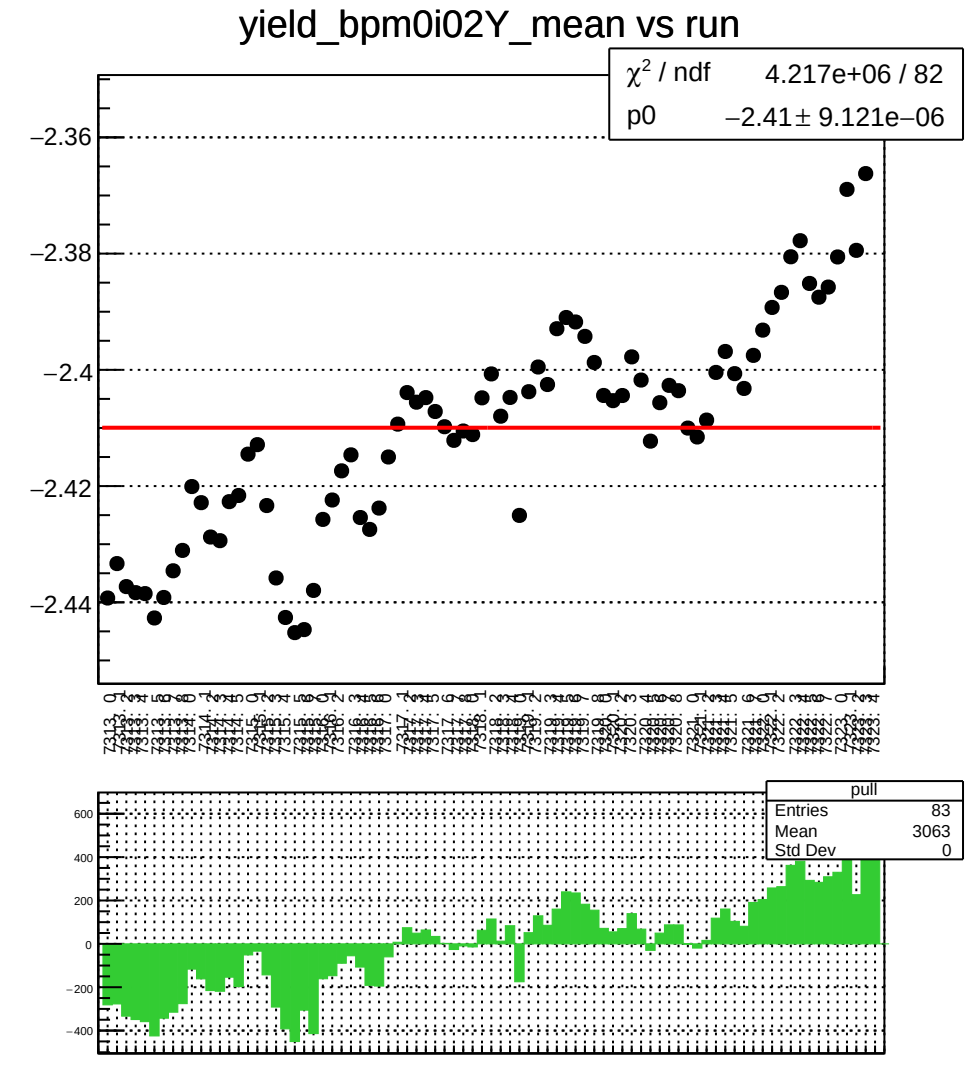

yield_bpm16Y_mean vs run
χ² / ndf 6.001e+04 / 82
p0 −0.287 ± 5.834e−06
−0.282
−0.284
−0.286
−0.288
−0.29
pull
Entries 83
Mean −29.13
Std Dev 0
80
60
40
20
0
−20
−40
−60

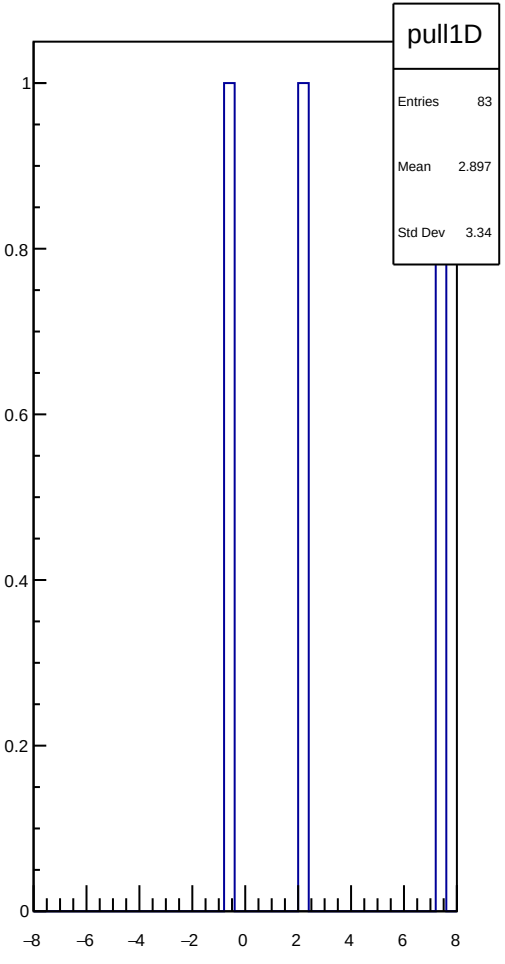

pull1D
Entries 83
Mean −0.238
Std Dev 3.836
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

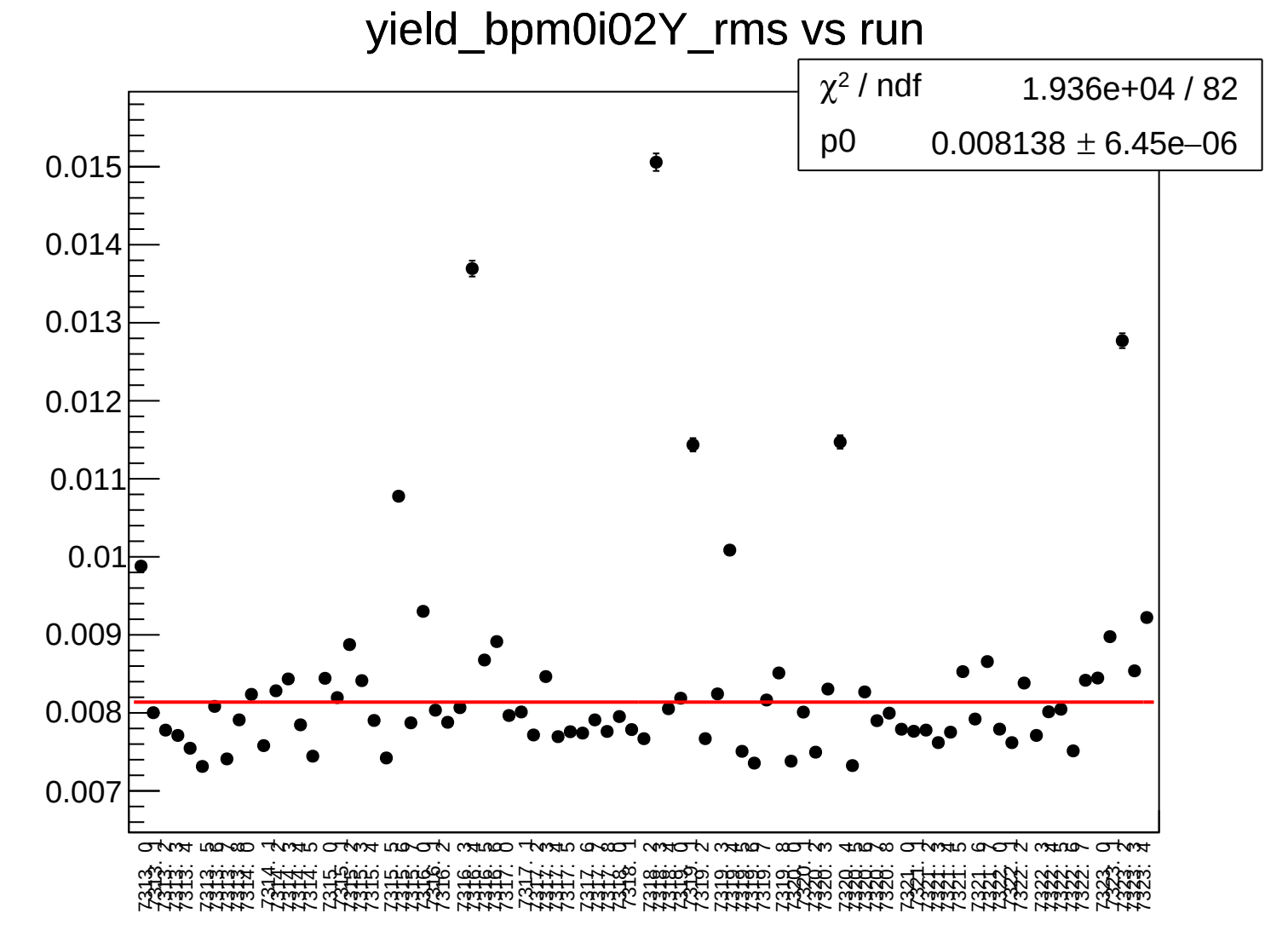

yield_bpm16Y_rms vs run
χ² / ndf 4.277e+04 / 82
p0 0.005167 ± 4.125e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

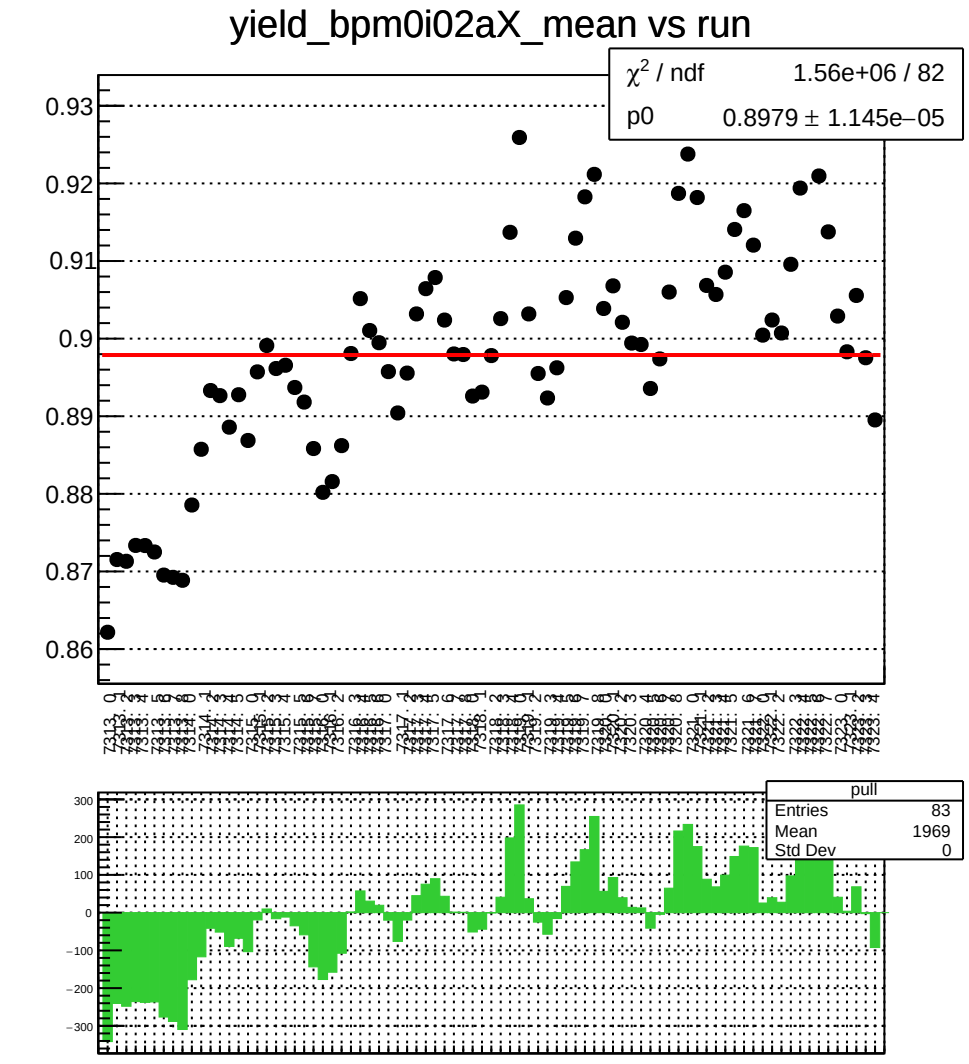

yield_bpm0i02X_mean vs run
χ² / ndf 2.269e+06 / 82
p0 −0.3051 ± 5.914e−06
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 83
Mean 1406
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 83
Mean −2.13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

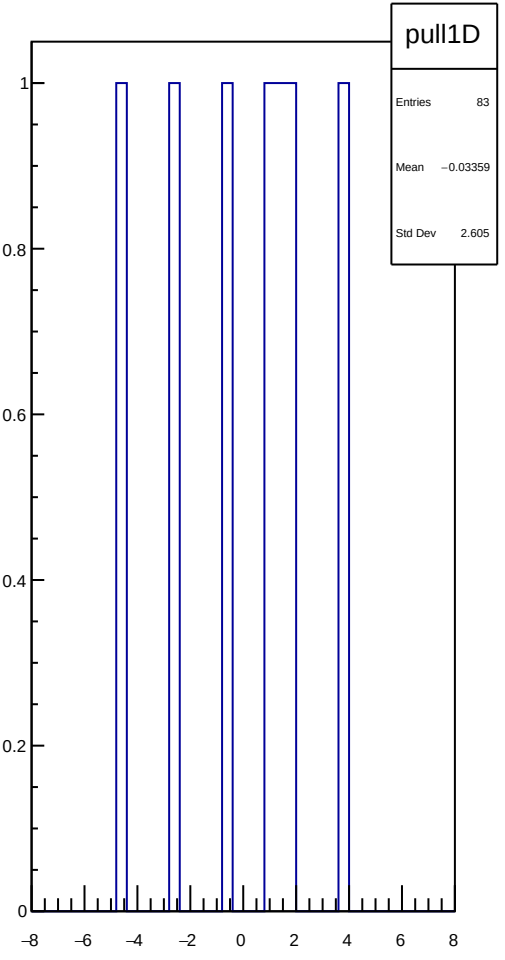

yield_bpm0i02X_rms vs run
χ² / ndf 1.547e+04 / 82
p0 0.005283 ± 4.182e−06
0.01
0.009
0.008
0.007
0.006
0.005

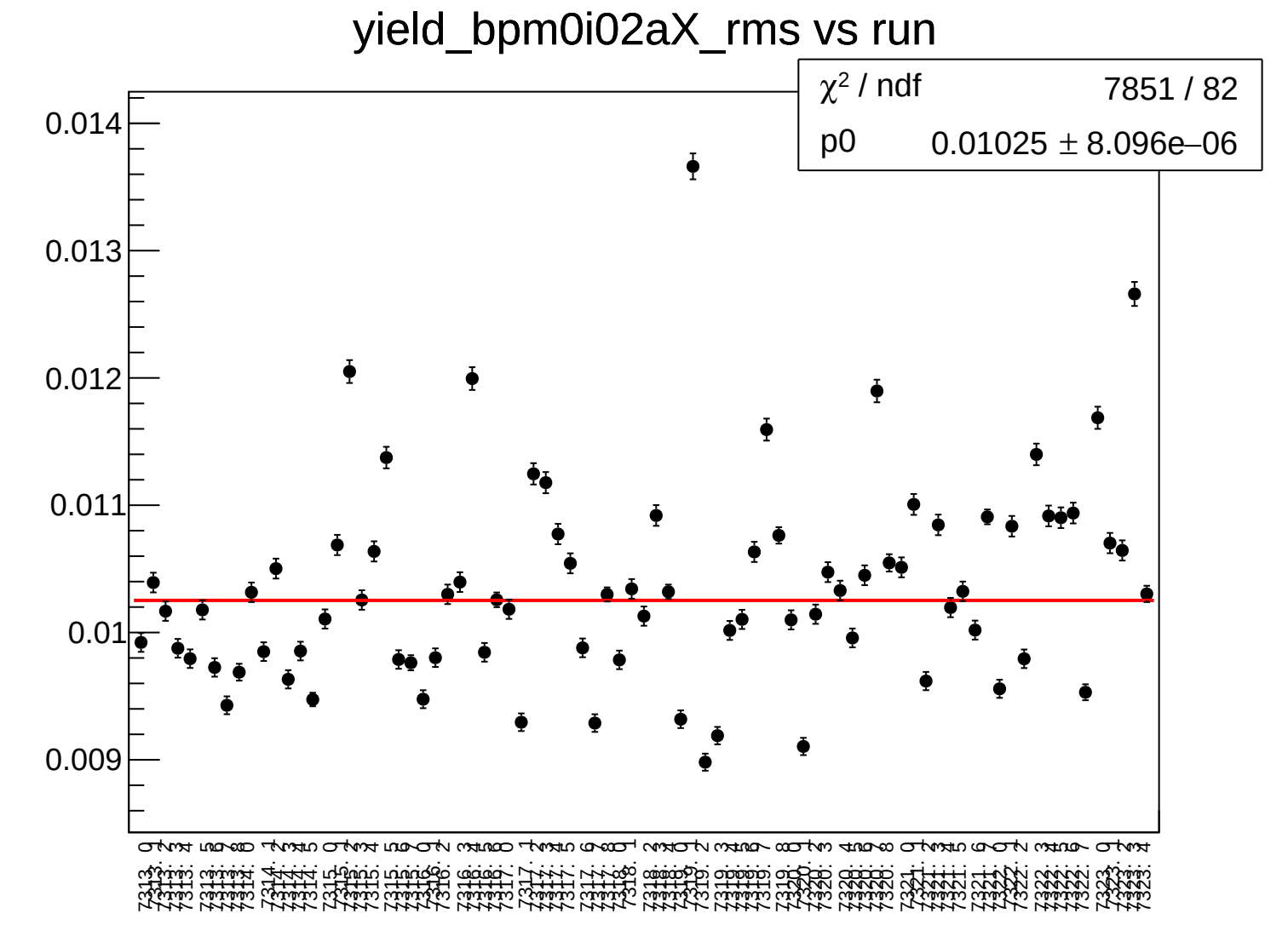

yield_bpm0i02Y_mean vs run
χ² / ndf 4.217e+06 / 82
p0 −2.41 ± 9.121e−06
−2.36
−2.38
−2.4
−2.42
−2.44
pull
Entries 83
Mean 3063
Std Dev 0
600
400
200
0
−200
−400

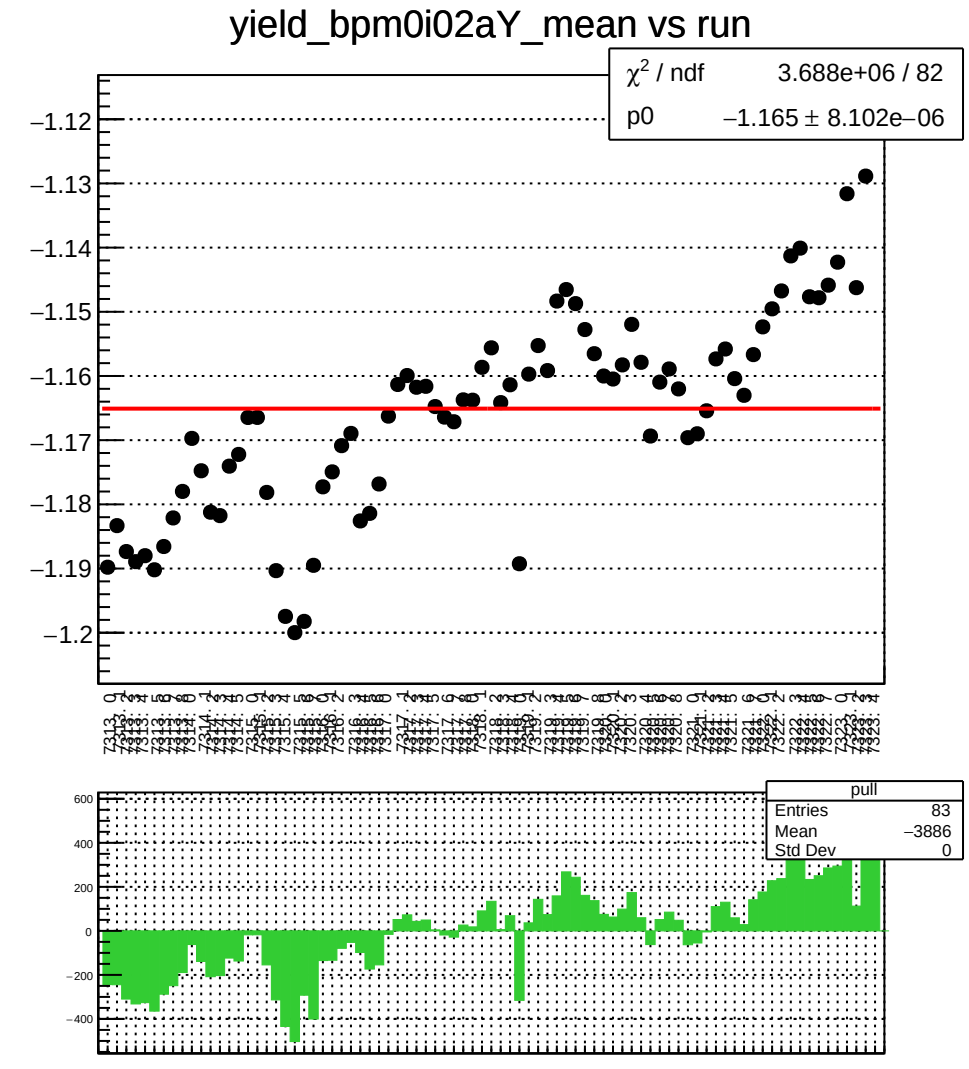

pull1D
Entries 83
Mean 2.897
Std Dev 3.34
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

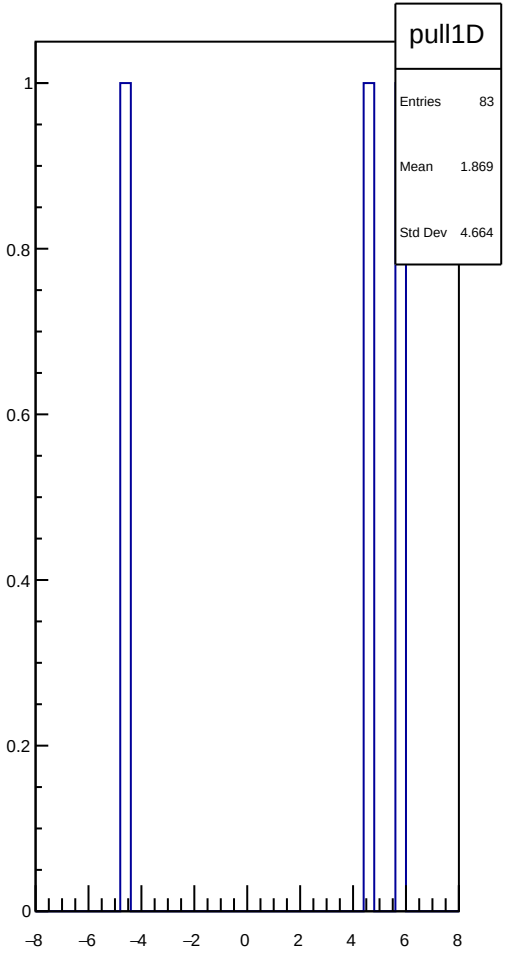

yield_bpm0i02Y_rms vs run
χ² / ndf 1.936e+04 / 82
p0 0.008138 ± 6.45e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

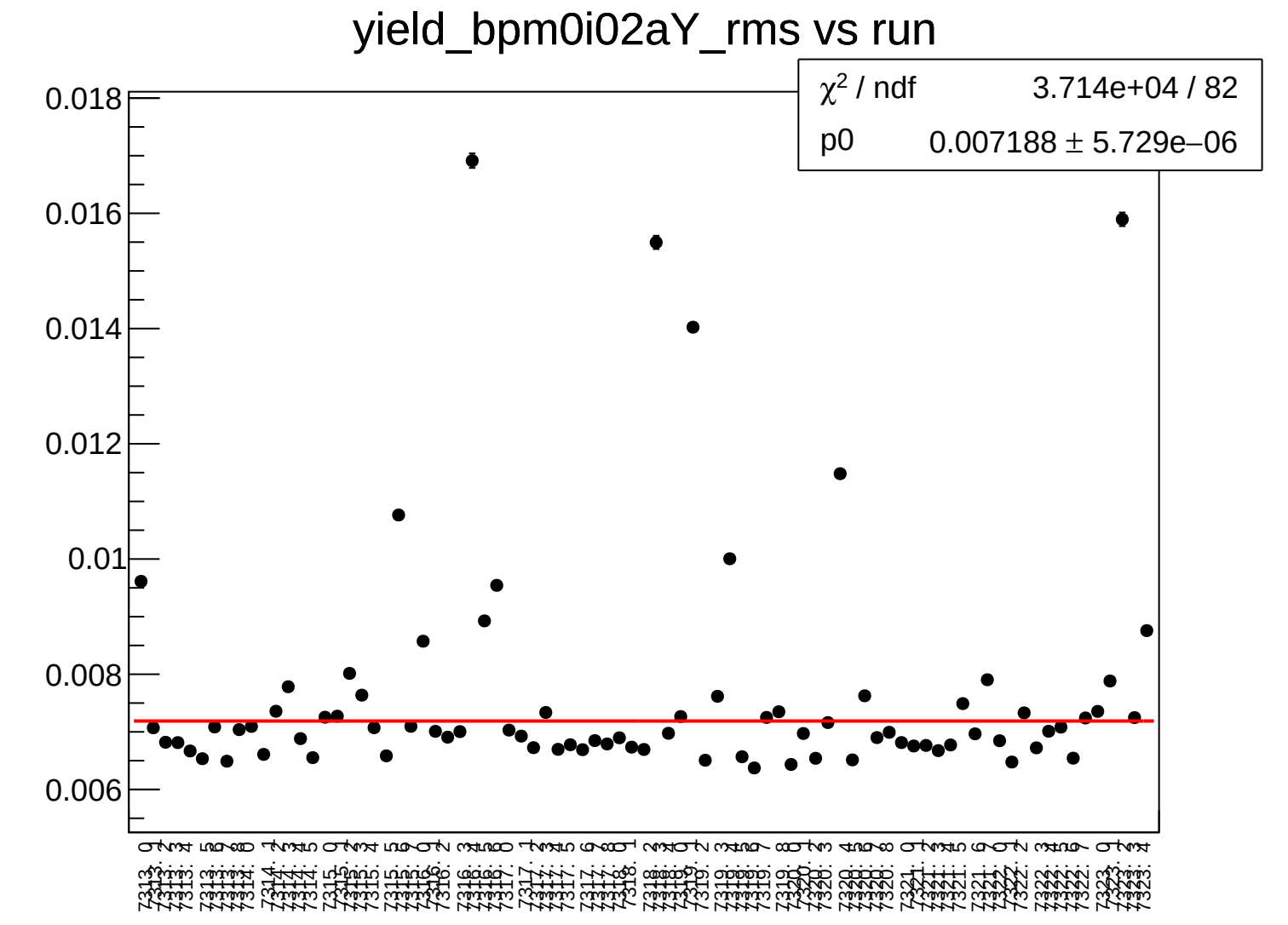

yield_bpm0i02aX_mean vs run
χ² / ndf 1.56e+06 / 82
p0 0.8979 ± 1.145e−05
pull
Entries 83
Mean 1969
Std Dev 0

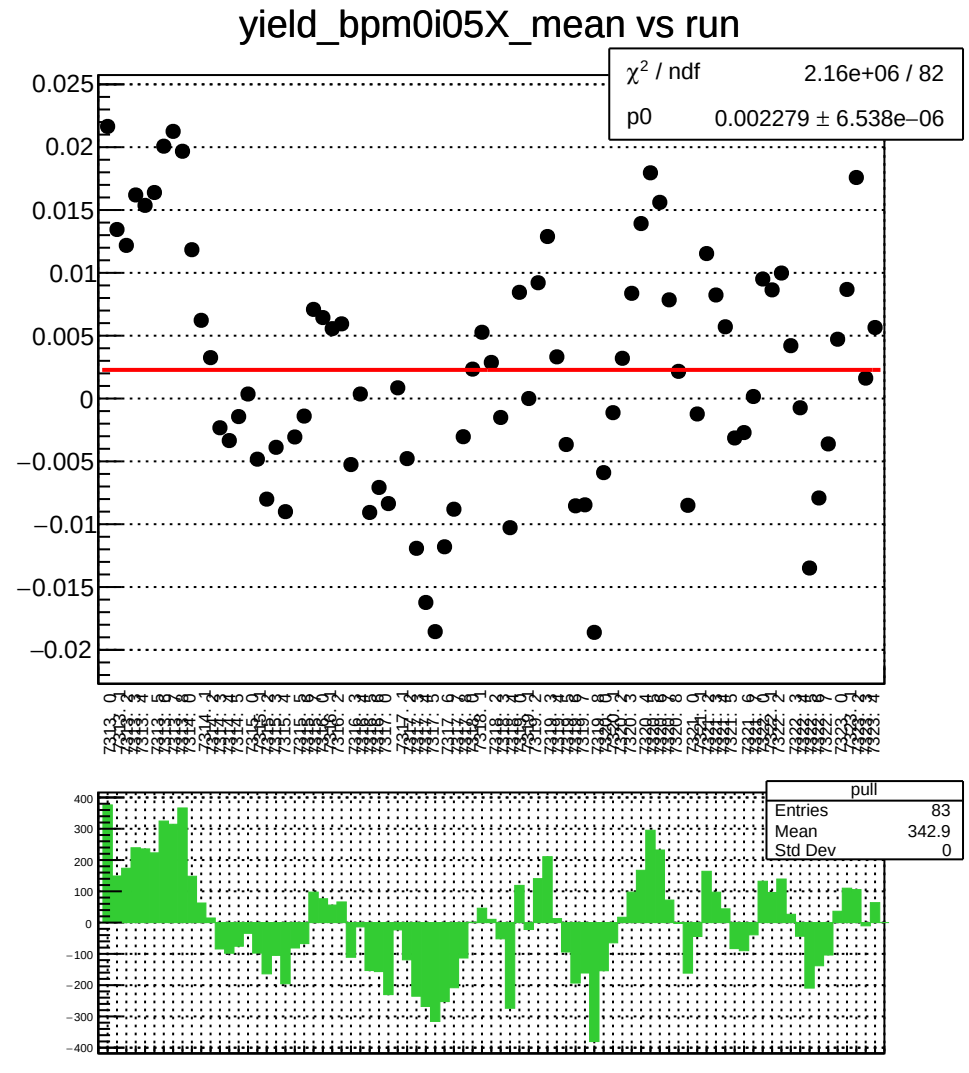

pull1D
Entries 83
Mean −0.03359
Std Dev 2.605

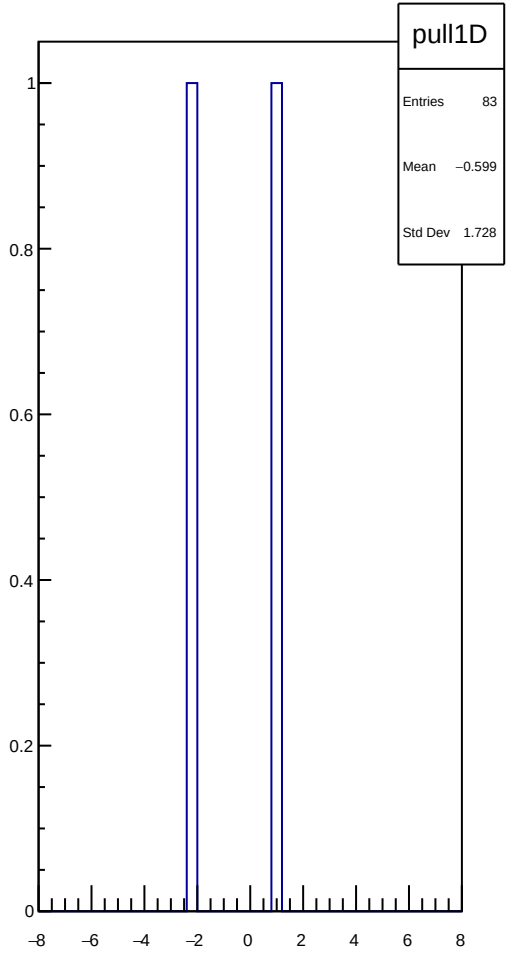

yield_bpm0i02aX_rms vs run
χ² / ndf 7851 / 82
p0 0.01025 ± 8.096e–06
0.014
0.013
0.012
0.011
0.01
0.009

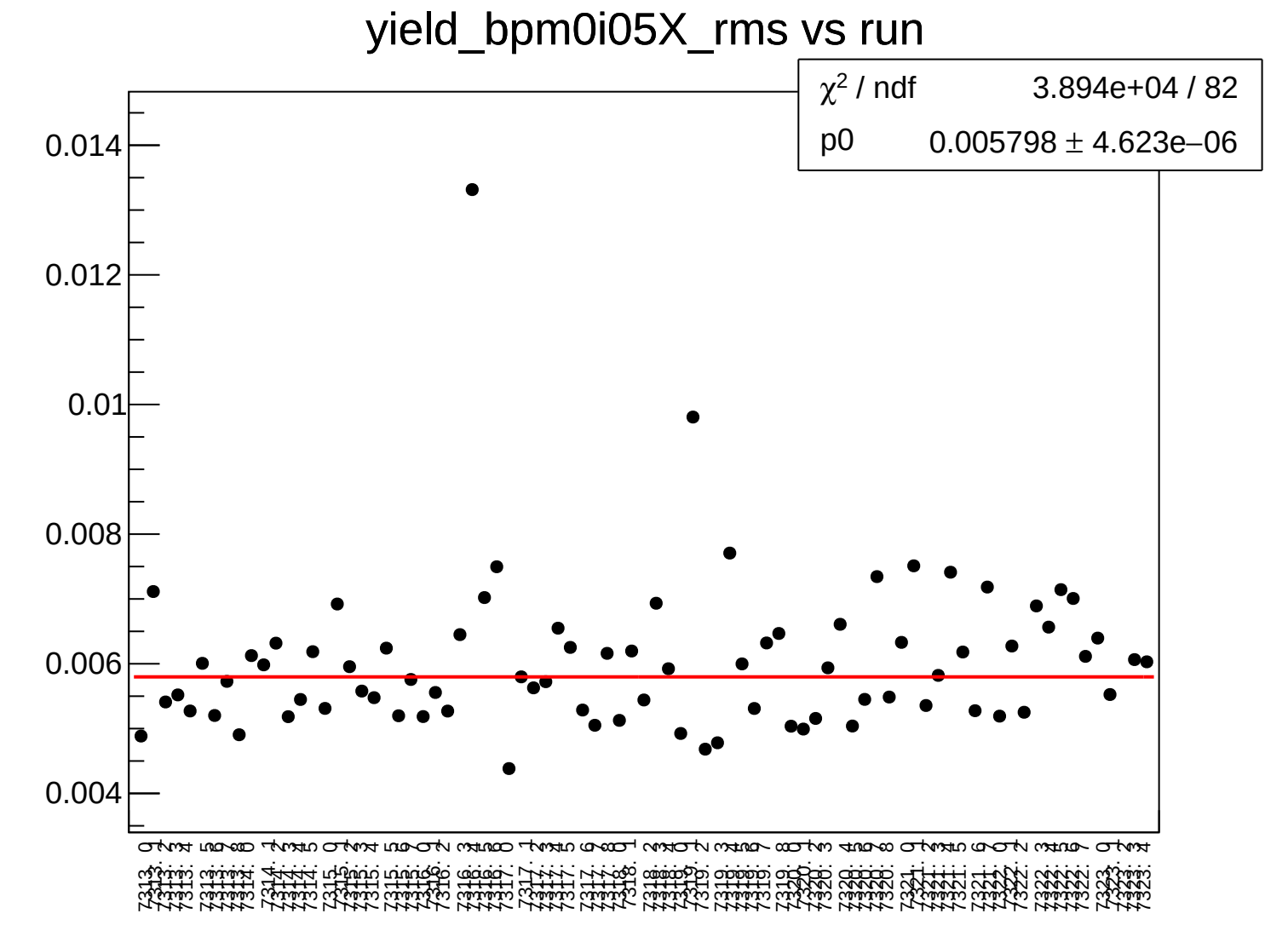

yield_bpm0i02aY_mean vs run
χ² / ndf 3.688e+06 / 82
p0 −1.165 ± 8.102e−06
−1.12
−1.13
−1.14
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
pull
Entries 83
Mean −3886
Std Dev 0
600
400
200
0
−200
−400

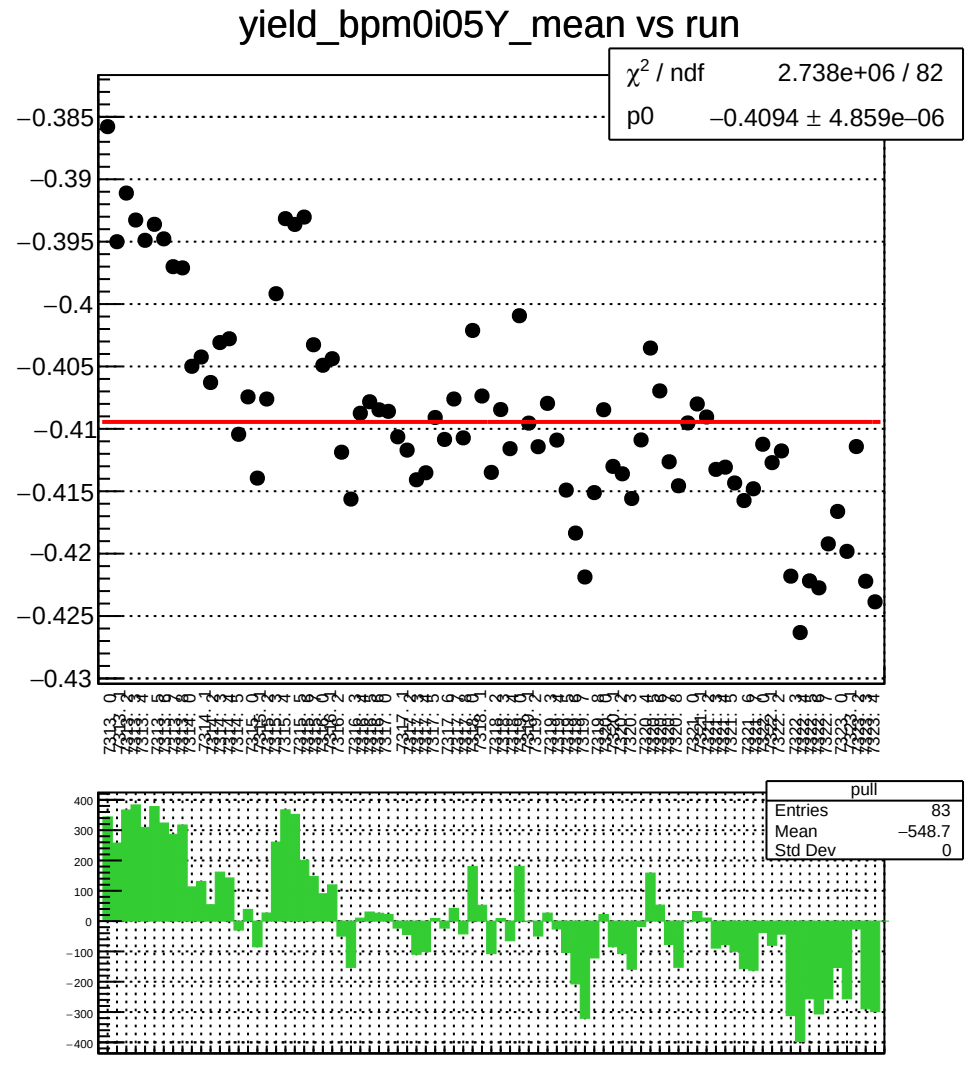

pull1D
Entries 83
Mean 1.869
Std Dev 4.664
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

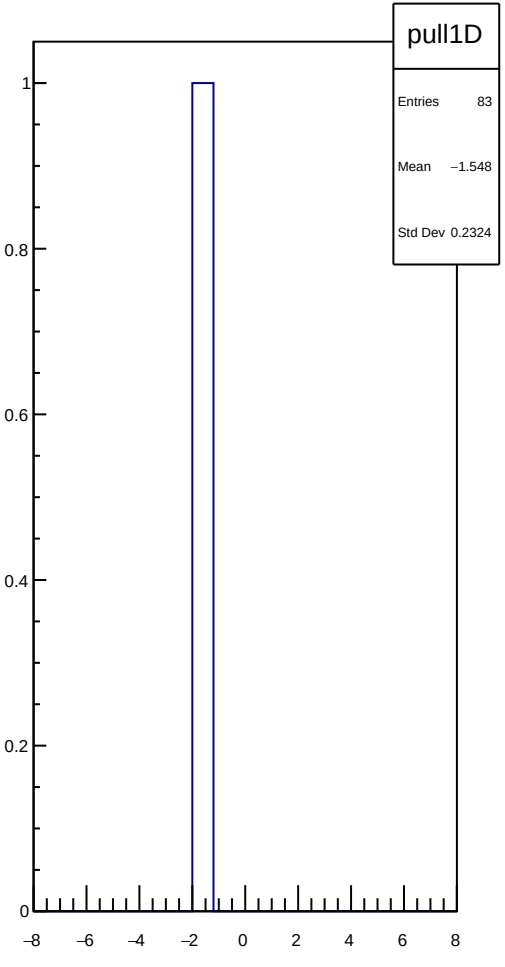

yield_bpm0i02aY_rms vs run
χ² / ndf 3.714e+04 / 82
p0 0.007188 ± 5.729e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

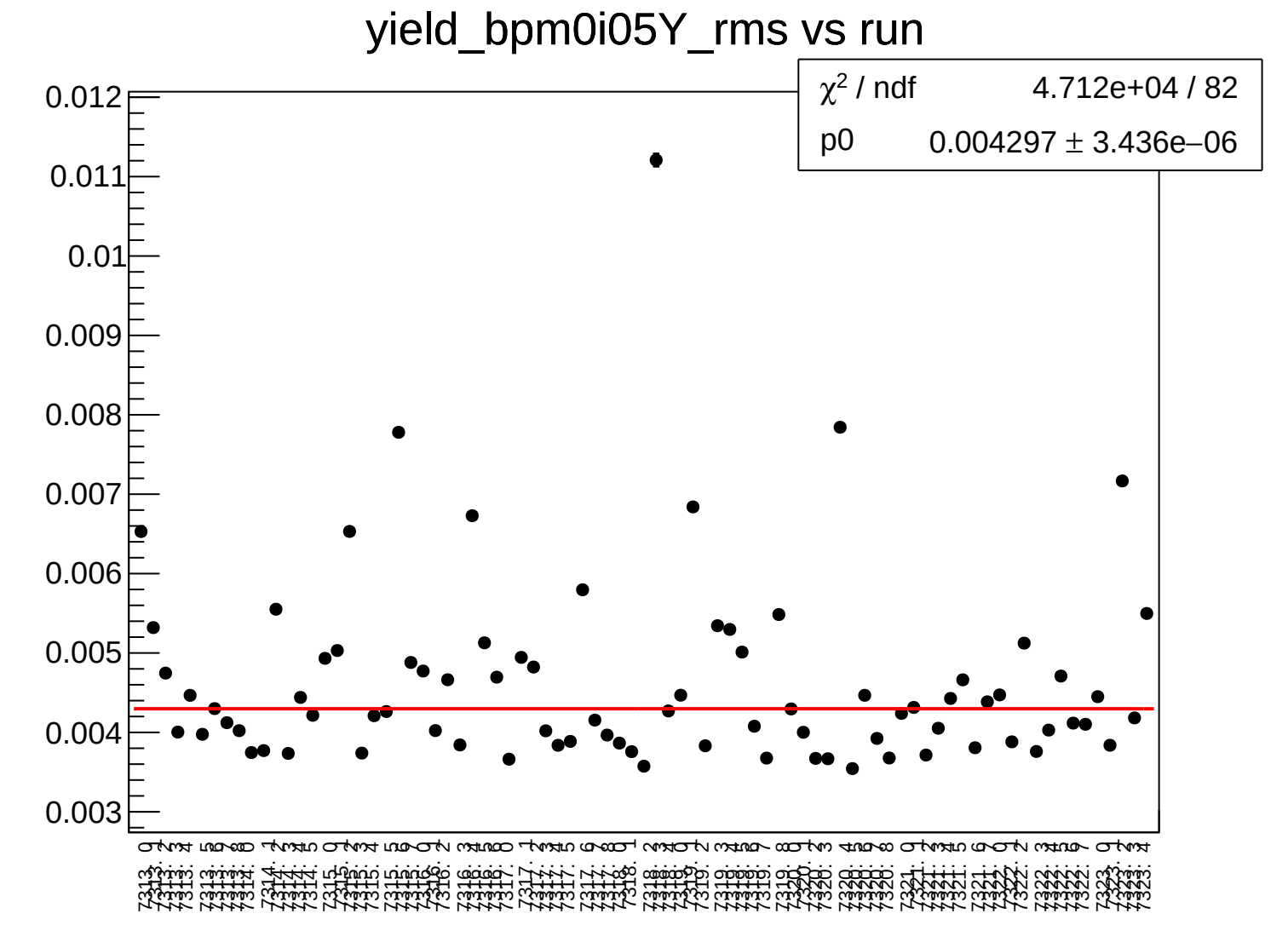

yield_bpm0i05X_mean vs run
χ² / ndf 2.16e+06 / 82
p0 0.002279 ± 6.538e−06
pull
Entries 83
Mean 342.9
Std Dev 0

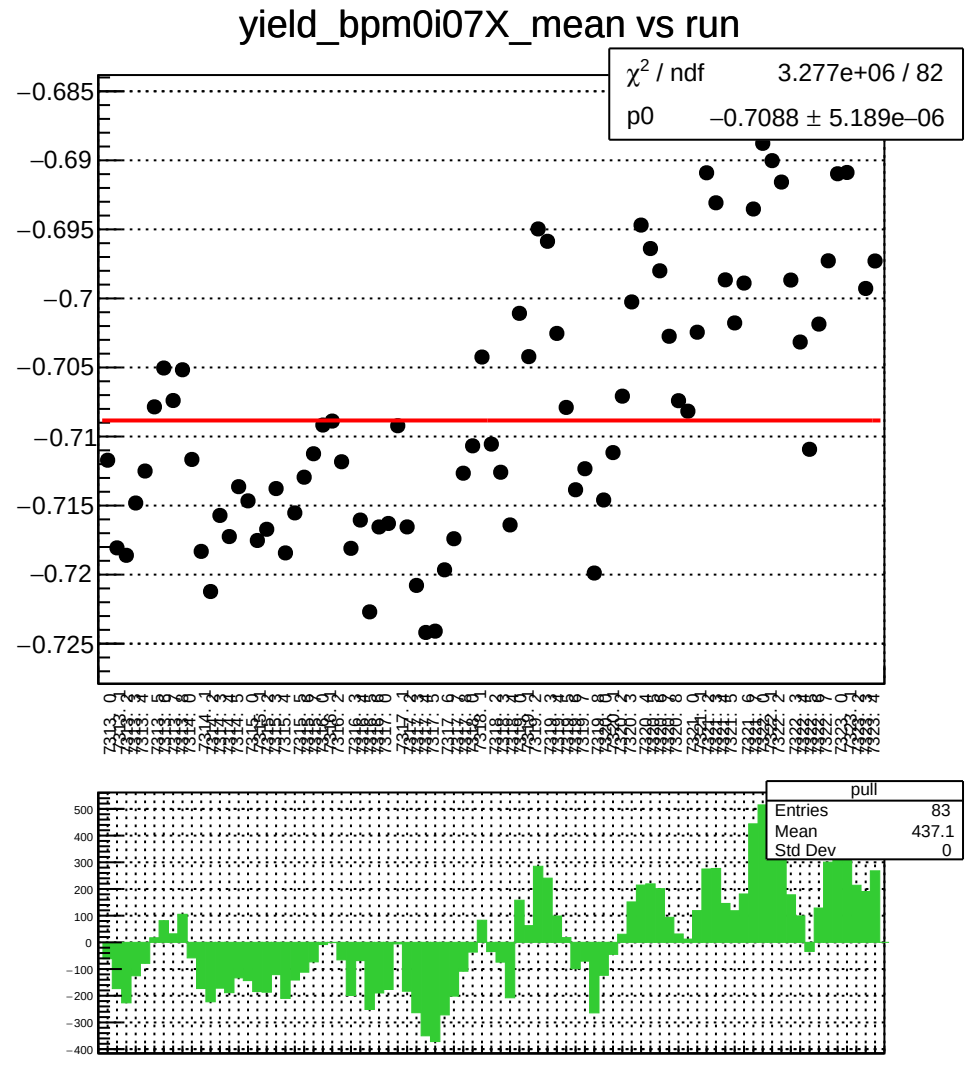

pull1D
Entries 83
Mean −0.599
Std Dev 1.728

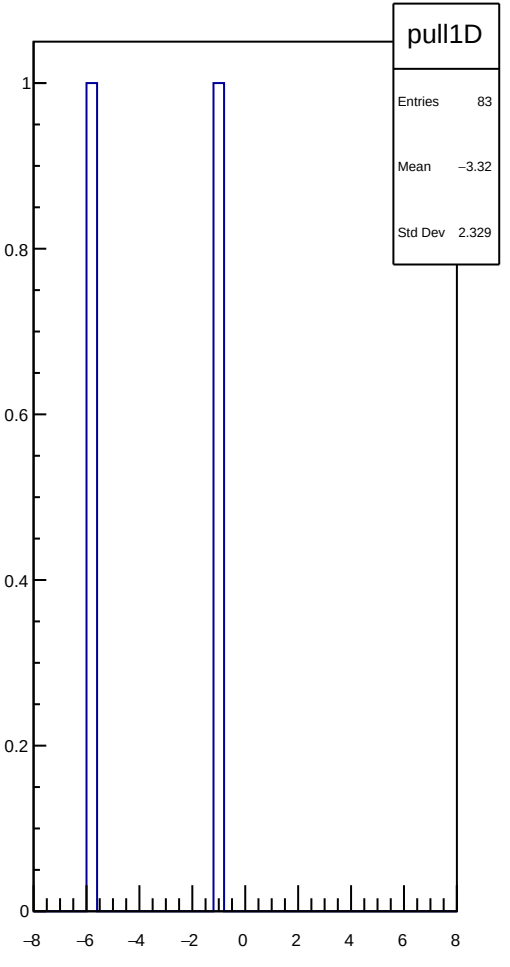

yield_bpm0i05X_rms vs run
χ² / ndf 3.894e+04 / 82
p0 0.005798 ± 4.623e−06
0.014
0.012
0.01
0.008
0.006
0.004

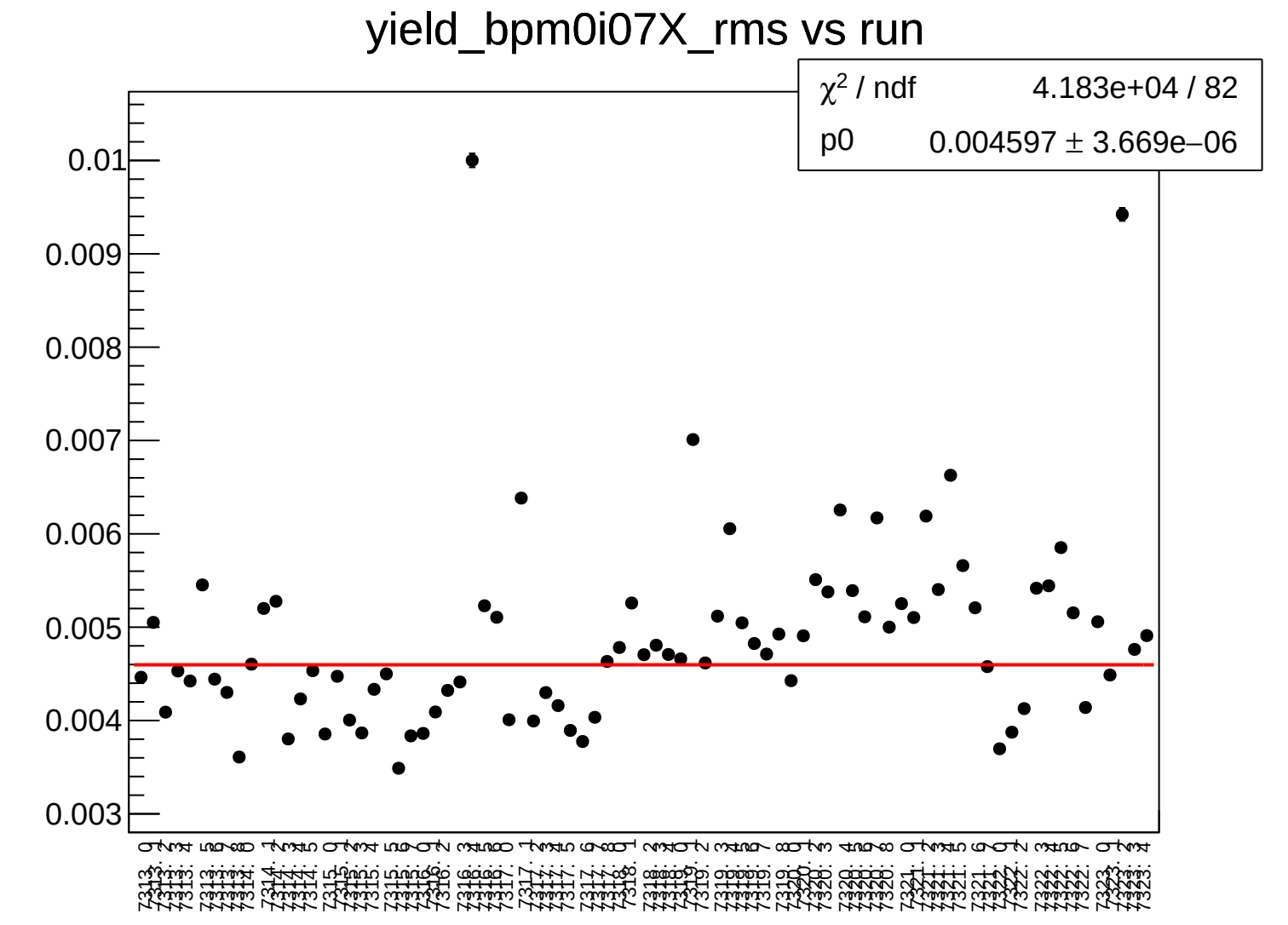

yield_bpm0i05Y_mean vs run
χ² / ndf 2.738e+06 / 82
p0 −0.4094 ± 4.859e−06
−0.385
−0.39
−0.395
−0.4
−0.405
−0.41
−0.415
−0.42
−0.425
−0.43
pull
Entries 83
Mean −548.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

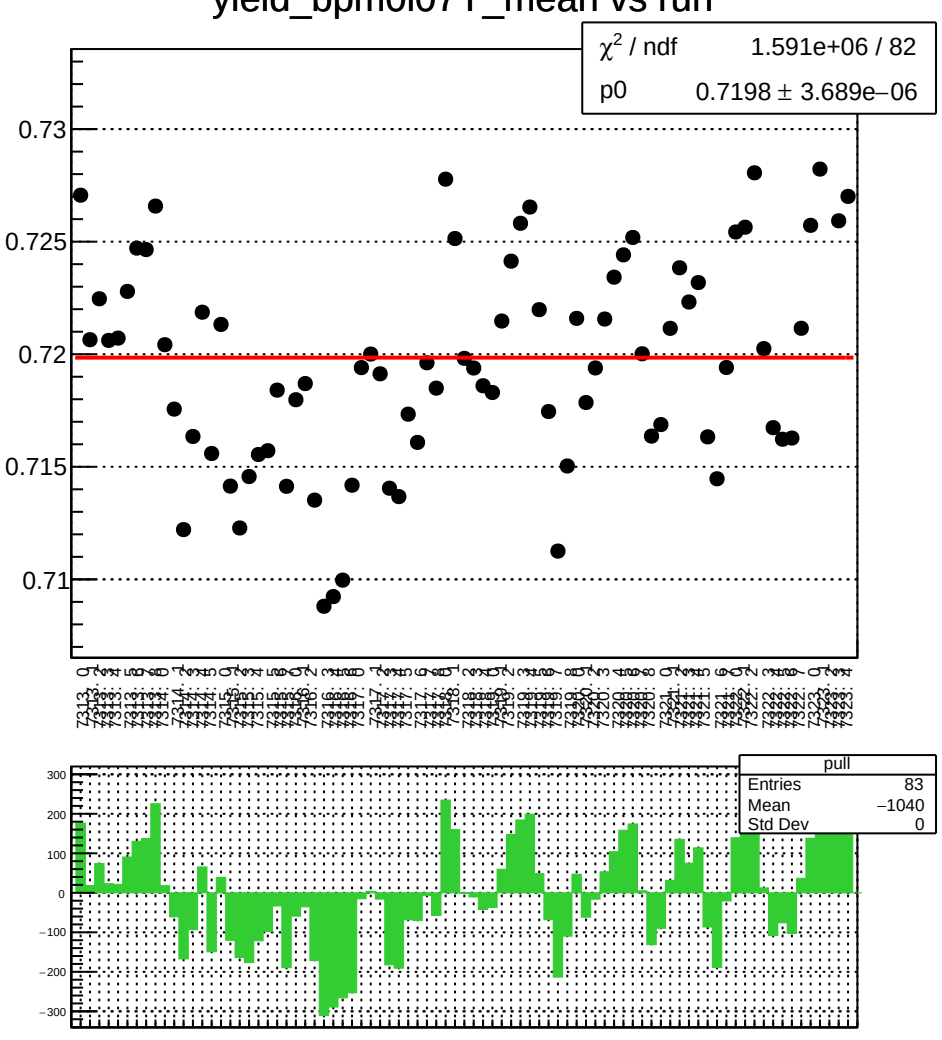

pull1D
Entries 83
Mean −1.548
Std Dev 0.2324
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

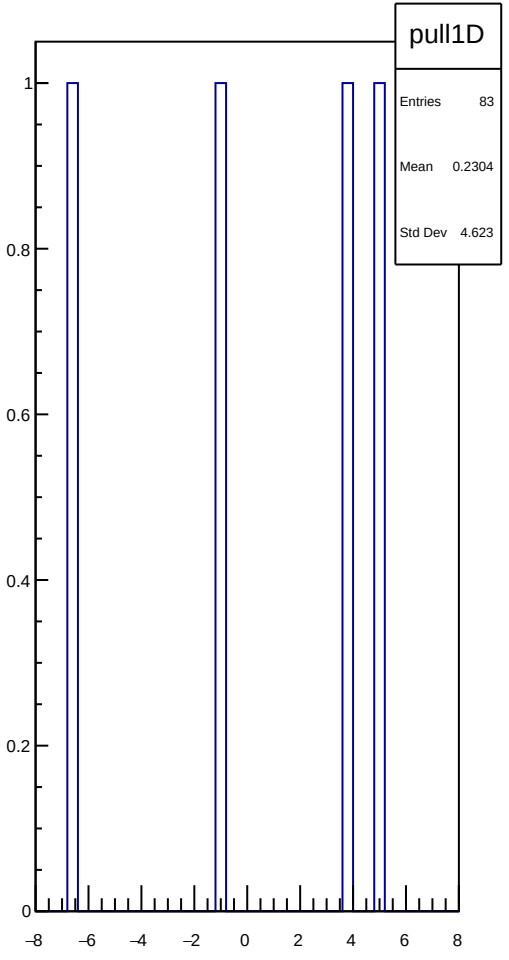

yield_bpm0i05Y_rms vs run
χ² / ndf 4.712e+04 / 82
p0 0.004297 ± 3.436e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

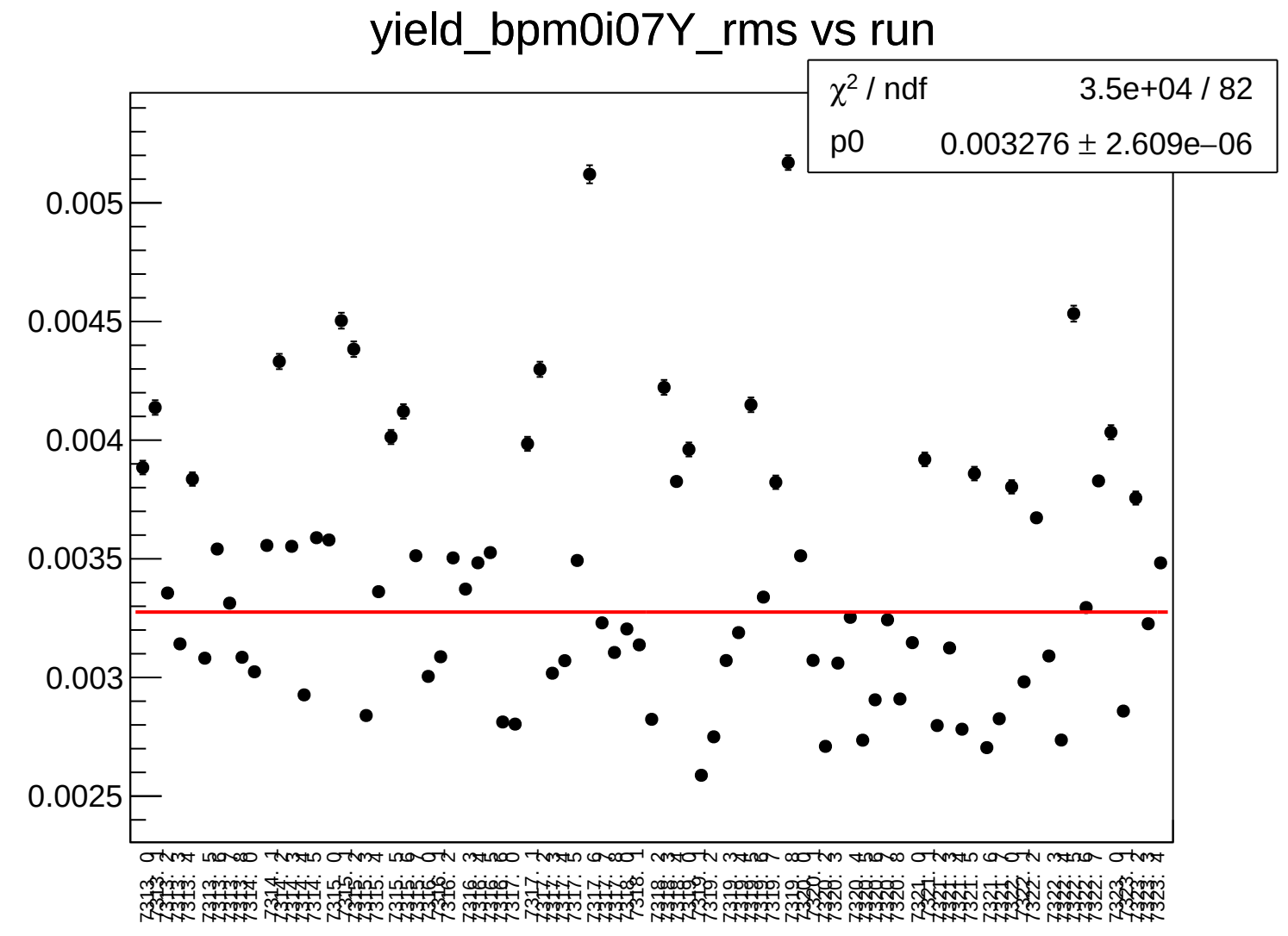

yield_bpm0i07X_mean vs run
χ² / ndf 3.277e+06 / 82
p0 −0.7088 ± 5.189e−06
−0.685
−0.69
−0.695
−0.7
−0.705
−0.71
−0.715
−0.72
−0.725
pull
Entries 83
Mean 437.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

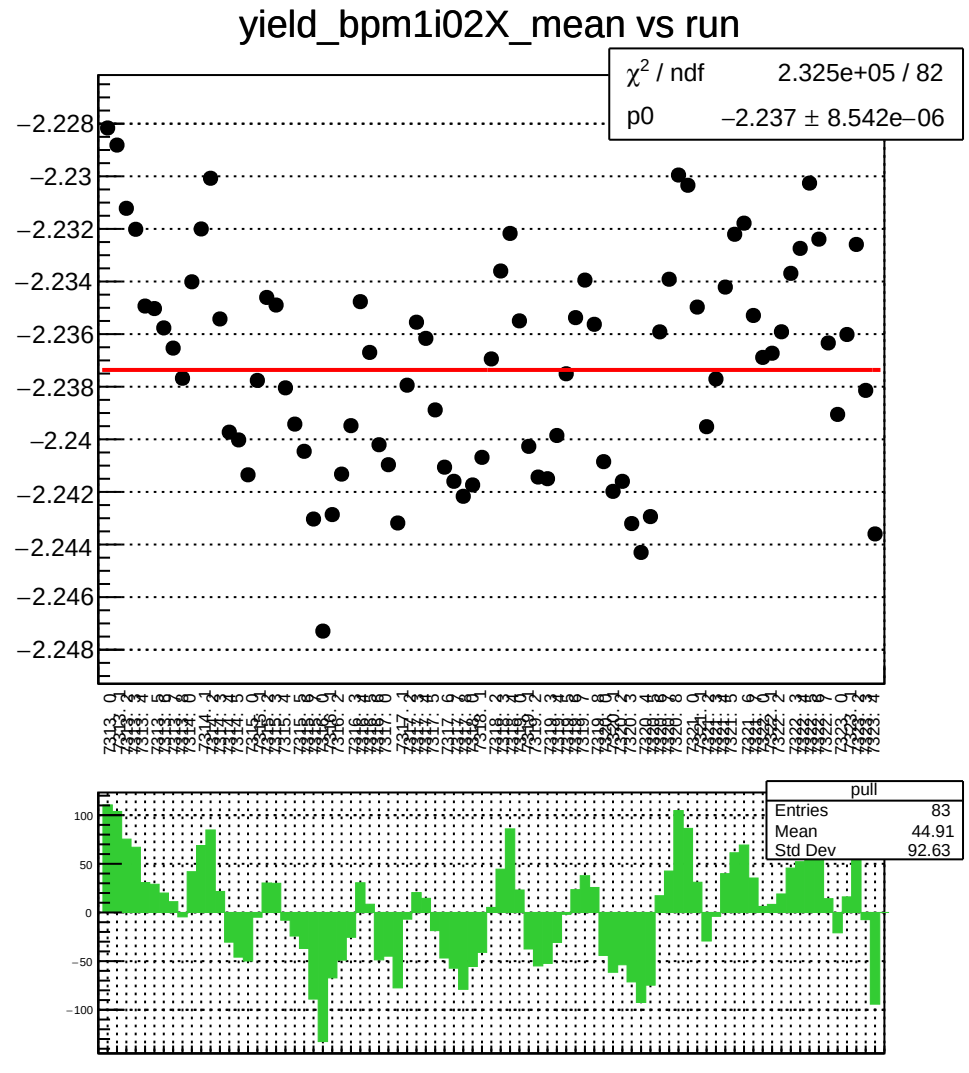

pull1D
Entries 83
Mean −3.32
Std Dev 2.329
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

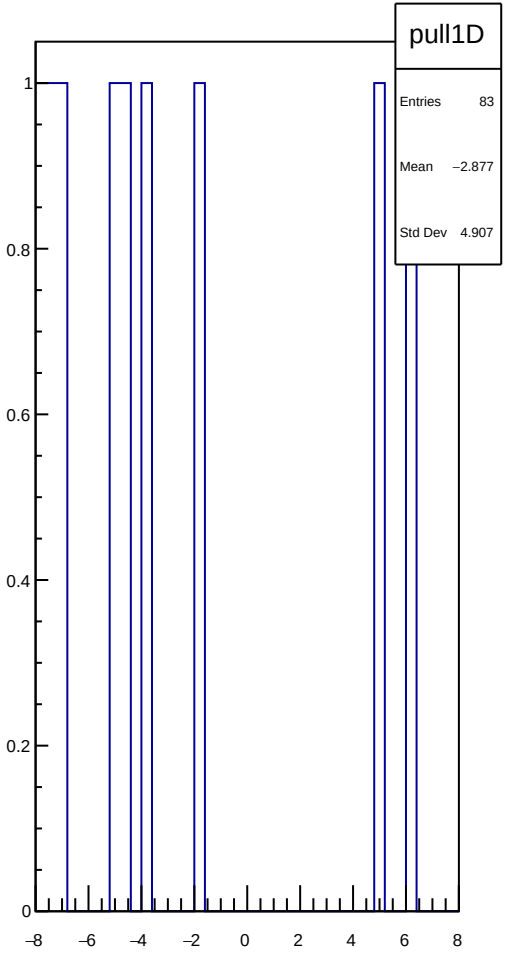

yield_bpm0i07X_rms vs run
χ^2 / ndf 4.183e+04 / 82
p0 0.004597 ± 3.669e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003


yield_bpm0i07Y_mean vs run
χ² / ndf 1.591e+06 / 82
p0 0.7198 ± 3.689e−06
0.73
0.725
0.72
0.715
0.71
pull
Entries 83
Mean −1040
Std Dev 0
300
200
100
0
−100
−200
−300

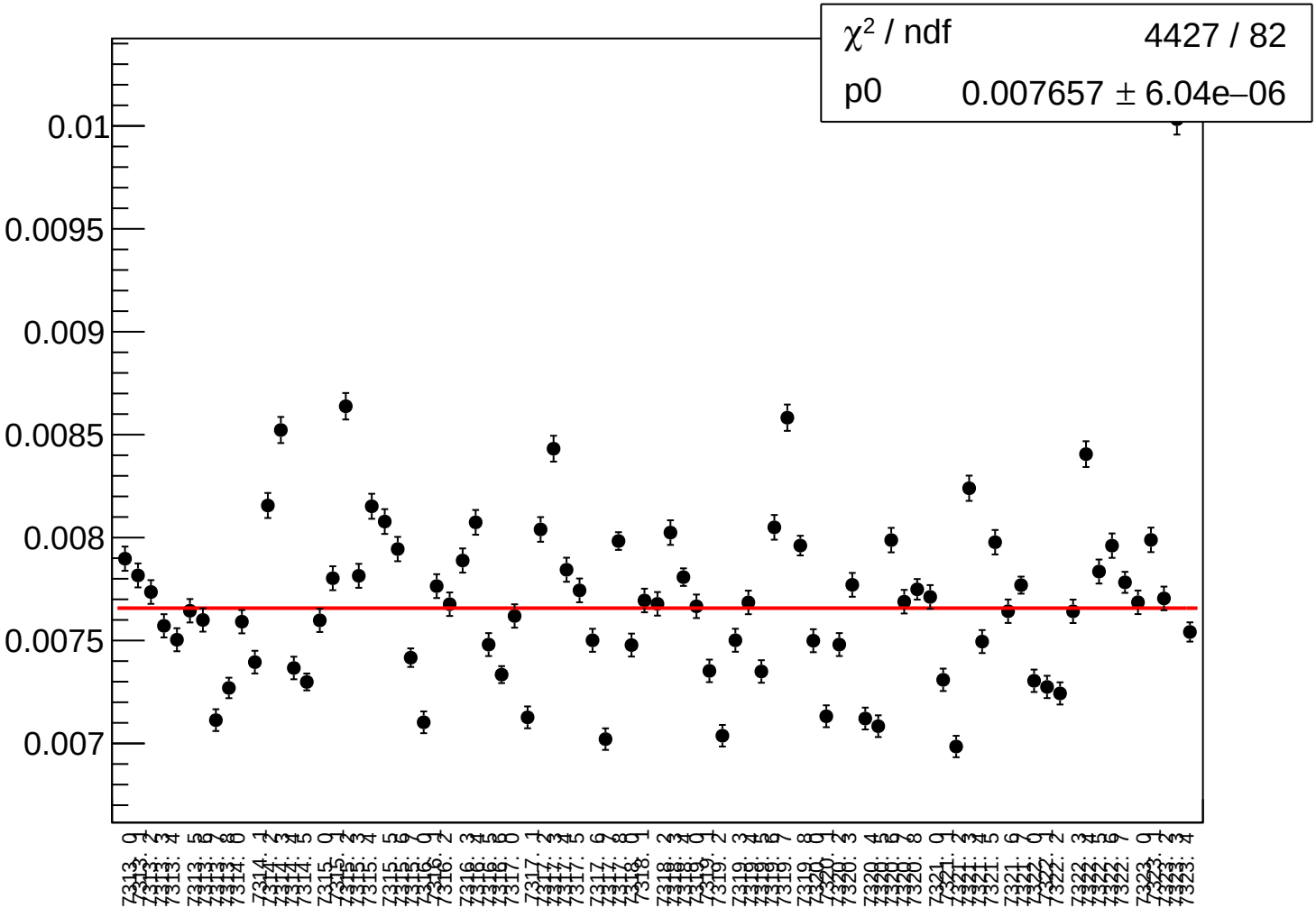

pull1D
Entries 83
Mean 0.2304
Std Dev 4.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

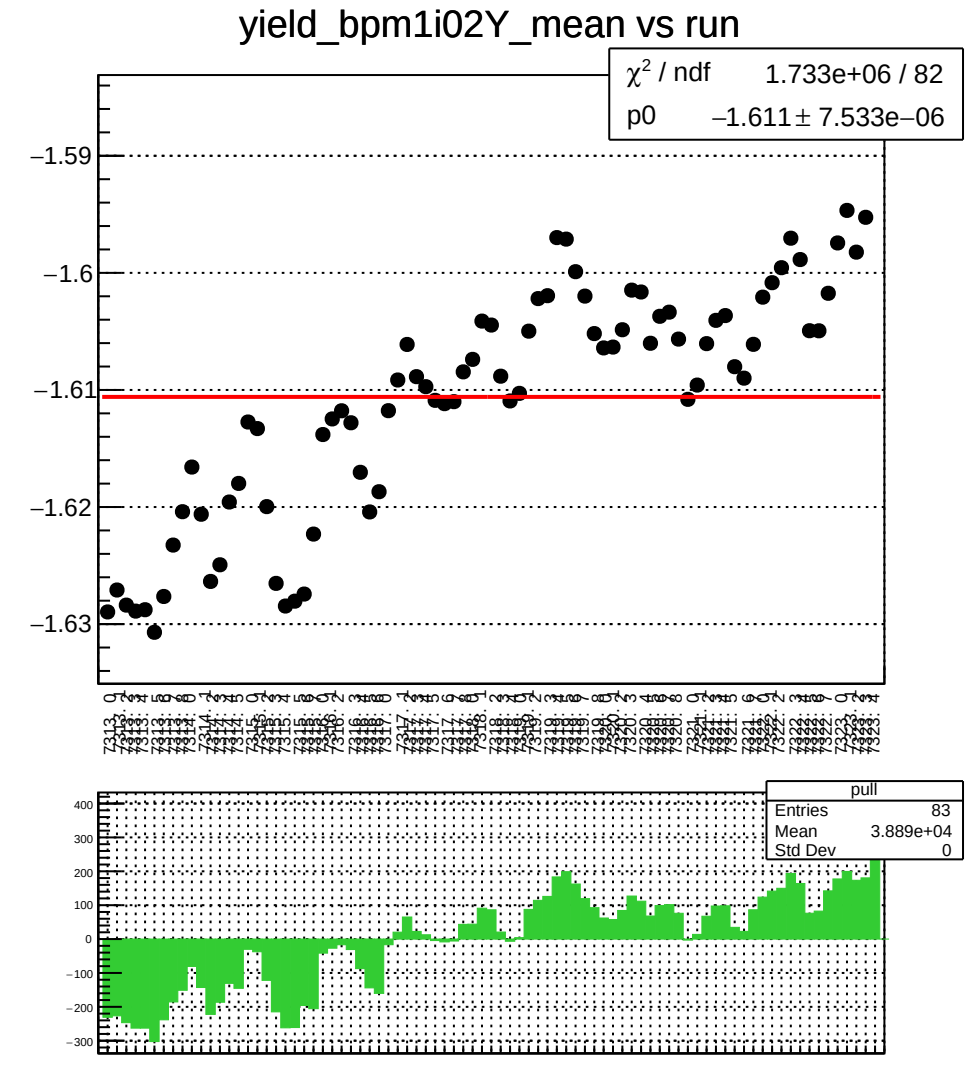

yield_bpm0i07Y_rms vs run
χ^2 / ndf 3.5e+04 / 82
p0 0.003276 ± 2.609e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

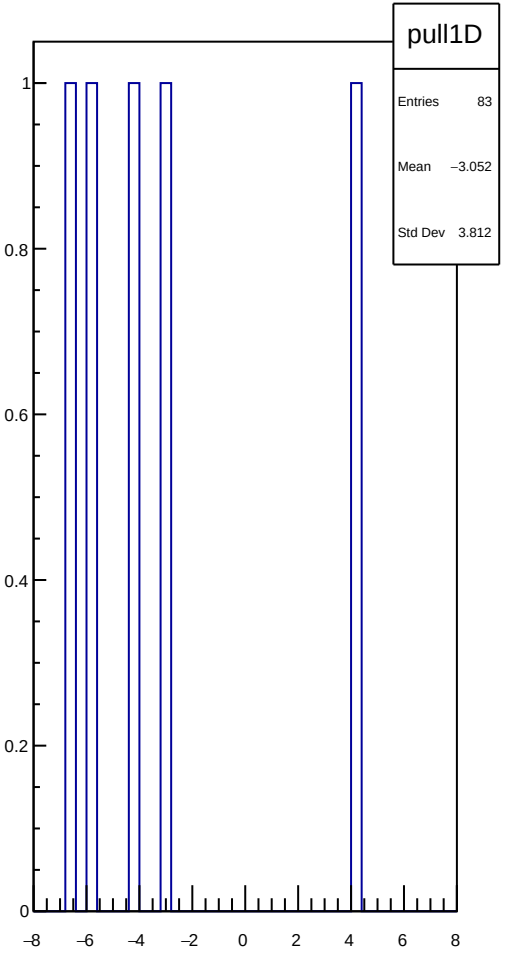

yield_bpm1i02X_mean vs run
χ² / ndf 2.325e+05 / 82
p0 −2.237 ± 8.542e−06
−2.228
−2.23
−2.232
−2.234
−2.236
−2.238
−2.24
−2.242
−2.244
−2.246
−2.248
pull
Entries 83
Mean 44.91
Std Dev 92.63
100
50
0
−50
−100

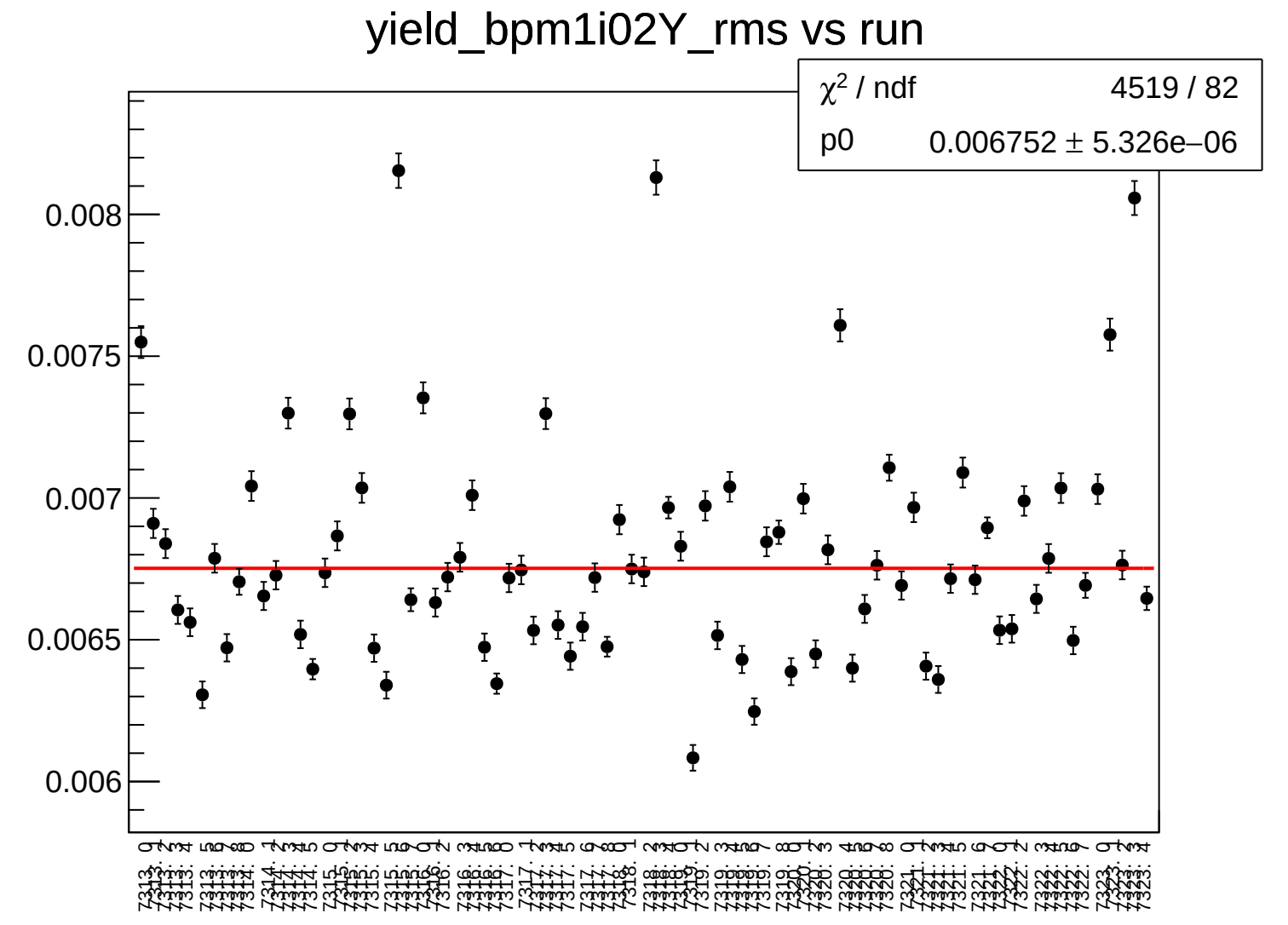

pull1D
Entries 83
Mean −2.877
Std Dev 4.907
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

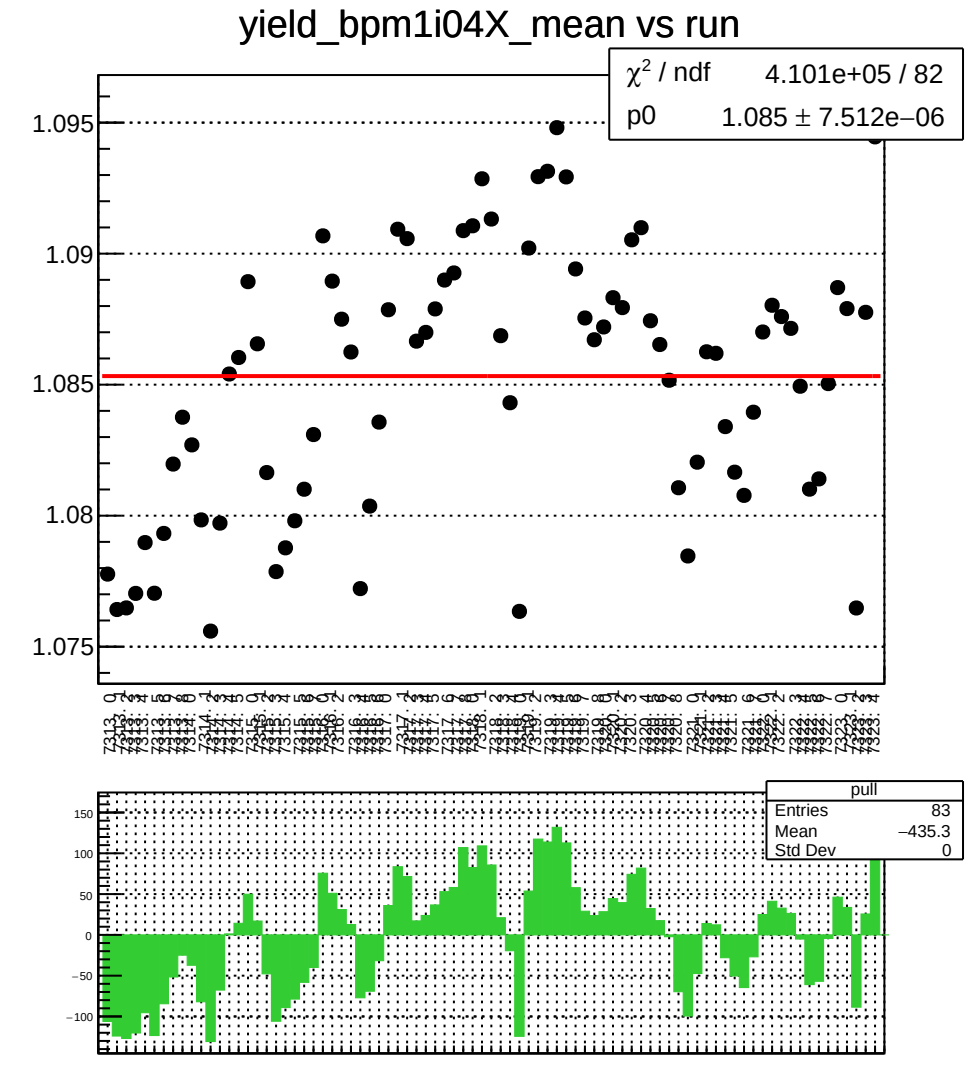
yield_bpm1i02X_rms vs run

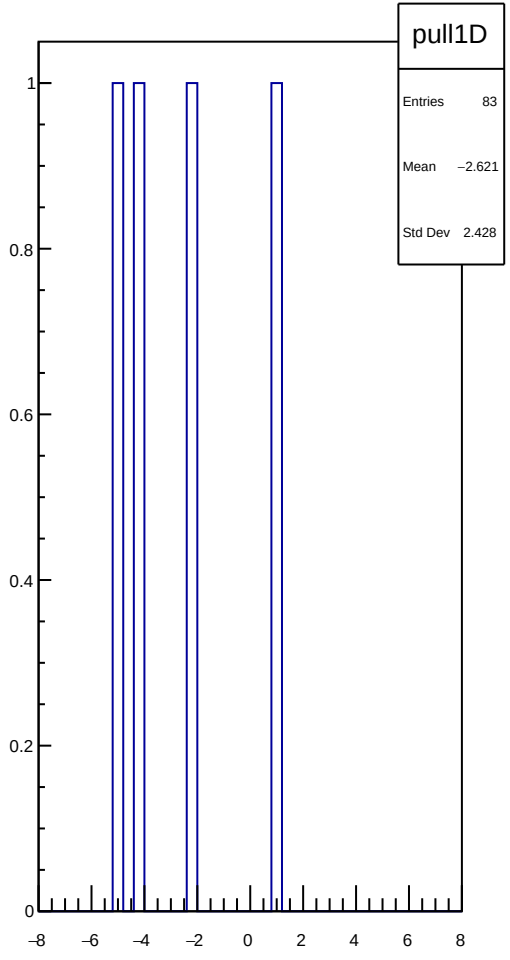


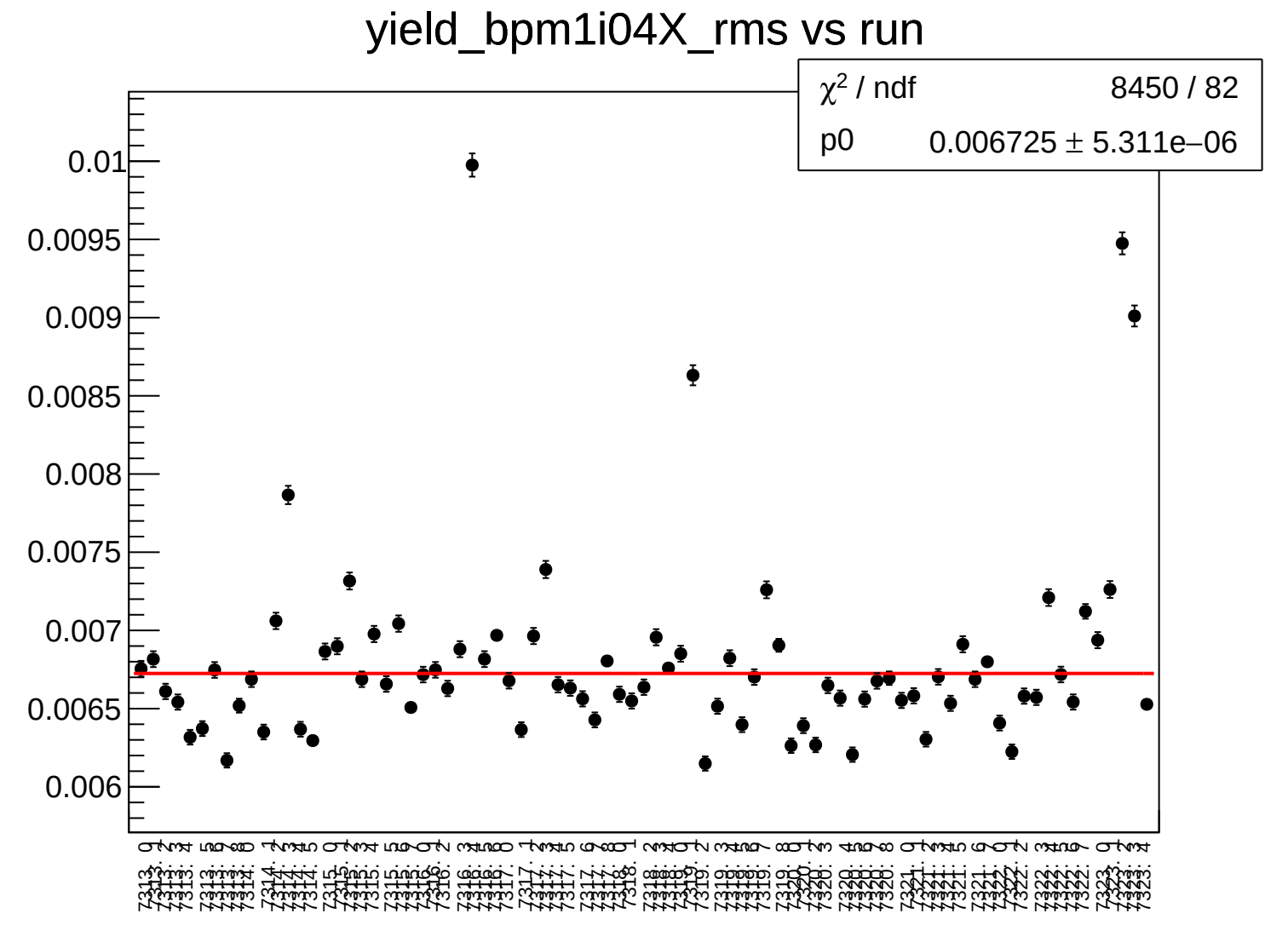

yield_bpm1i02Y_mean vs run
χ² / ndf 1.733e+06 / 82
p0 −1.611 ± 7.533e−06
−1.59
−1.6
−1.61
−1.62
−1.63
pull
Entries 83
Mean 3.889e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

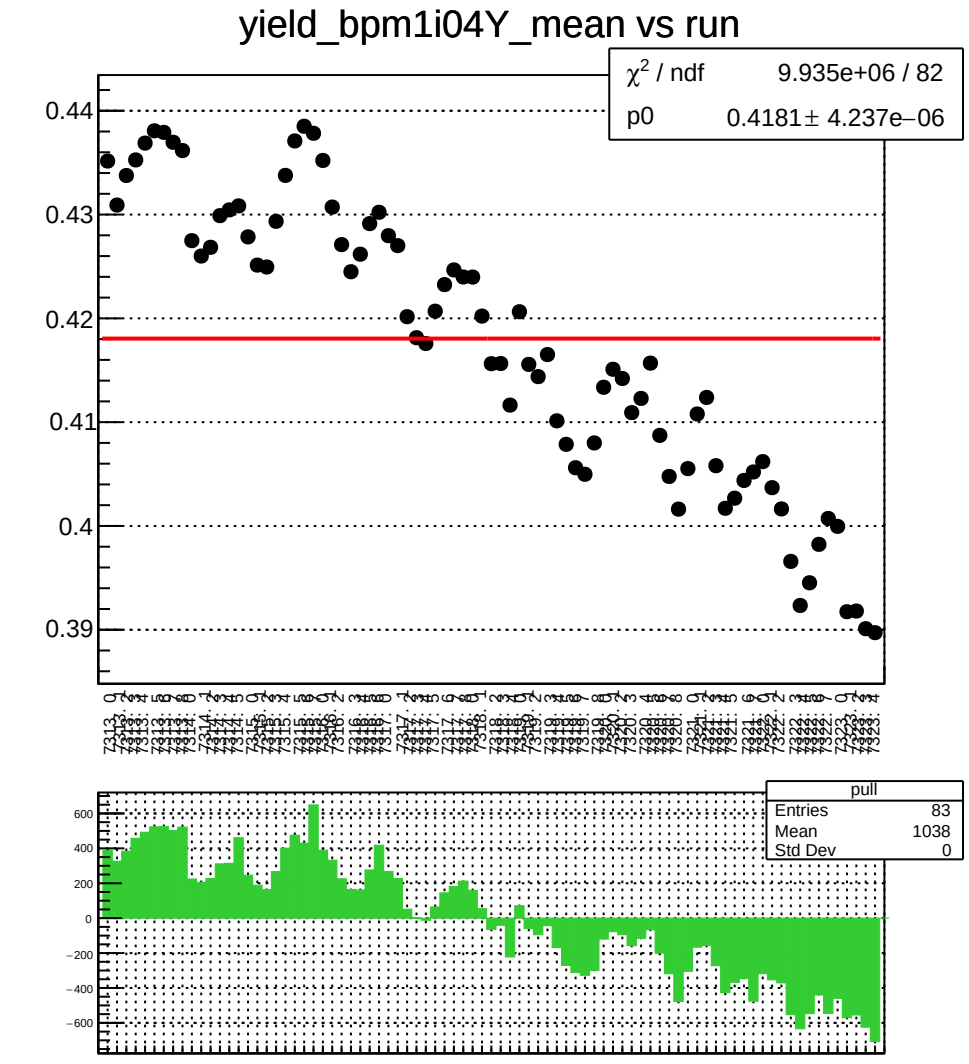

pull1D
Entries 83
Mean −3.052
Std Dev 3.812
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

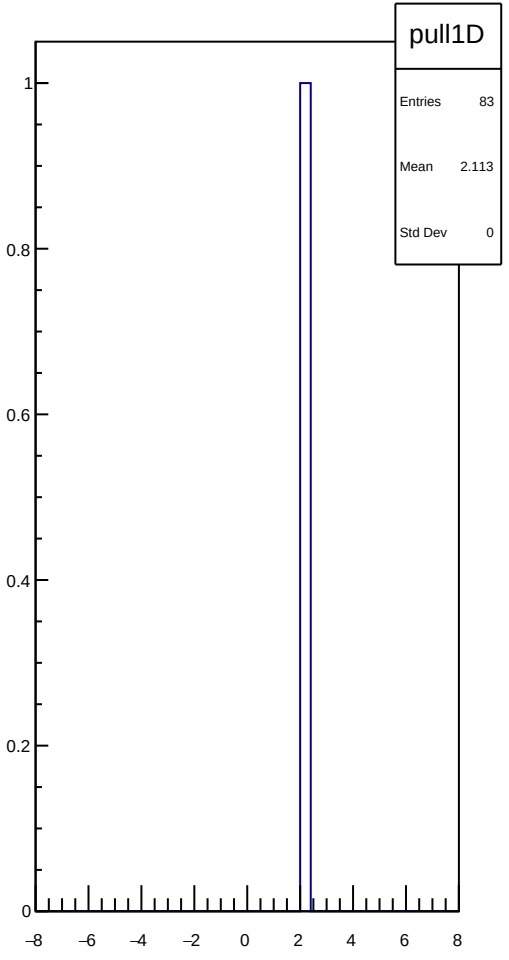

yield_bpm1i02Y_rms vs run
χ² / ndf 4519 / 82
p0 0.006752 ± 5.326e−06
0.008
0.0075
0.007
0.0065
0.006

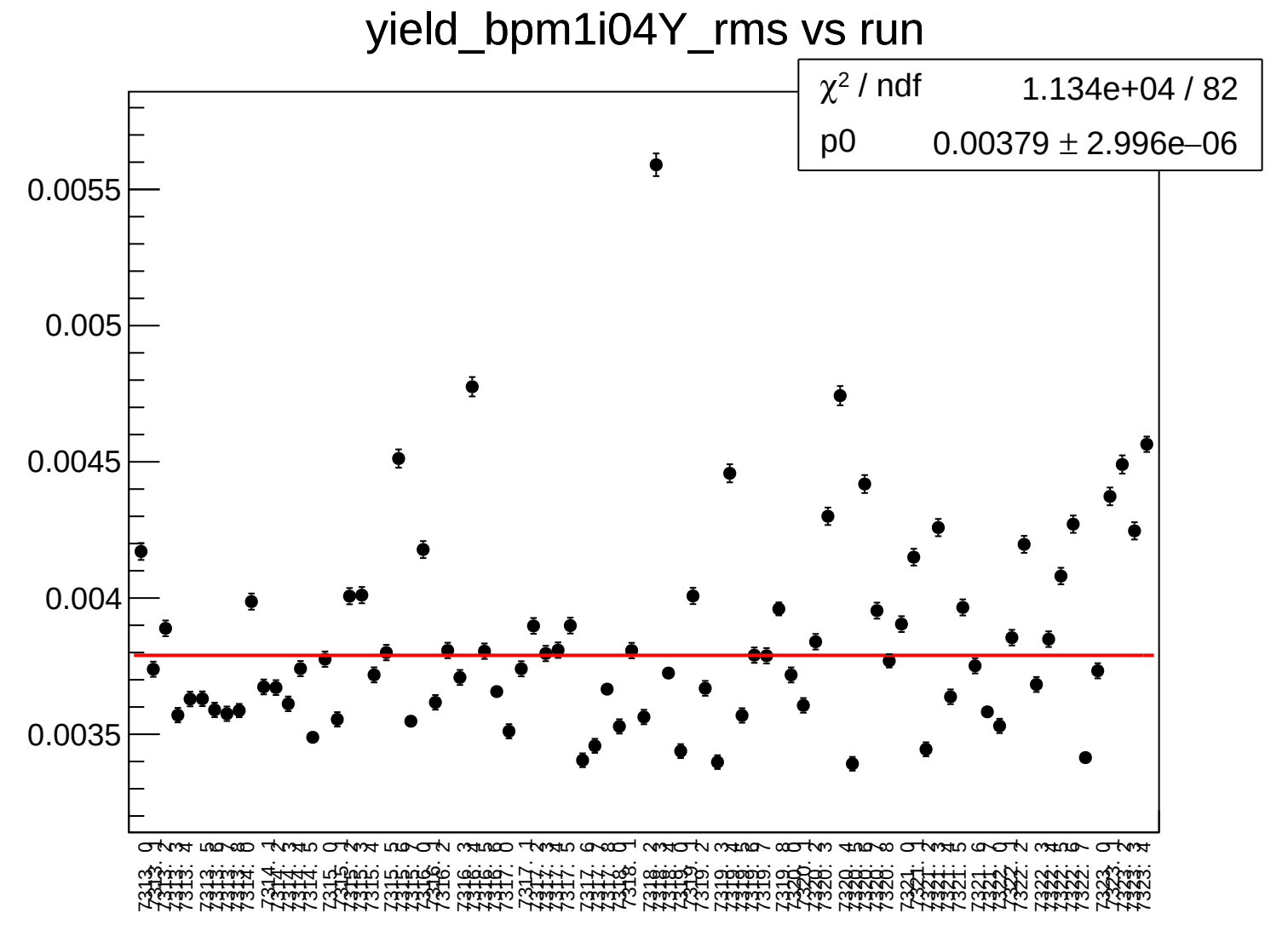

yield_bpm1i04X_mean vs run
χ² / ndf 4.101e+05 / 82
p0 1.085 ± 7.512e−06
1.095
1.09
1.085
1.08
1.075
pull
Entries 83
Mean −435.3
Std Dev 0
150
100
50
0
−50
−100

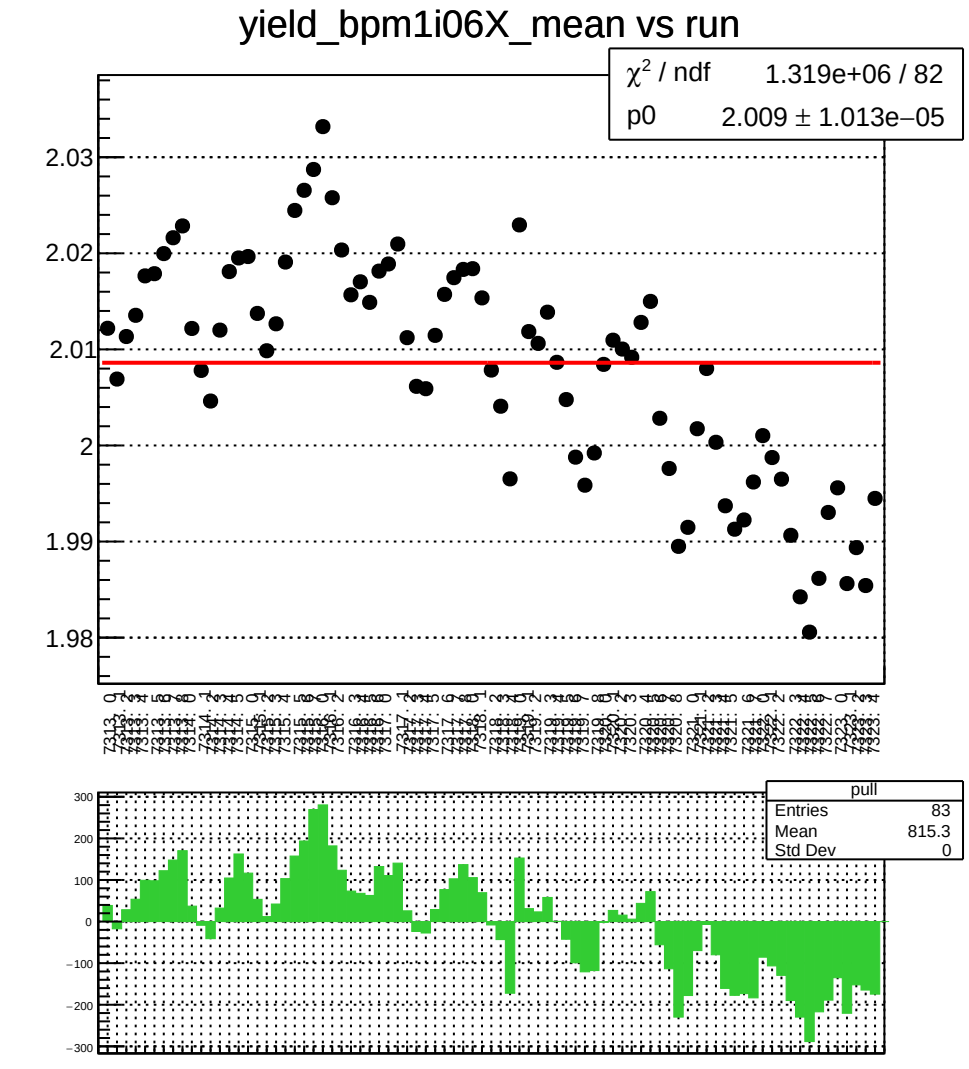

pull1D
Entries 83
Mean −2.621
Std Dev 2.428
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

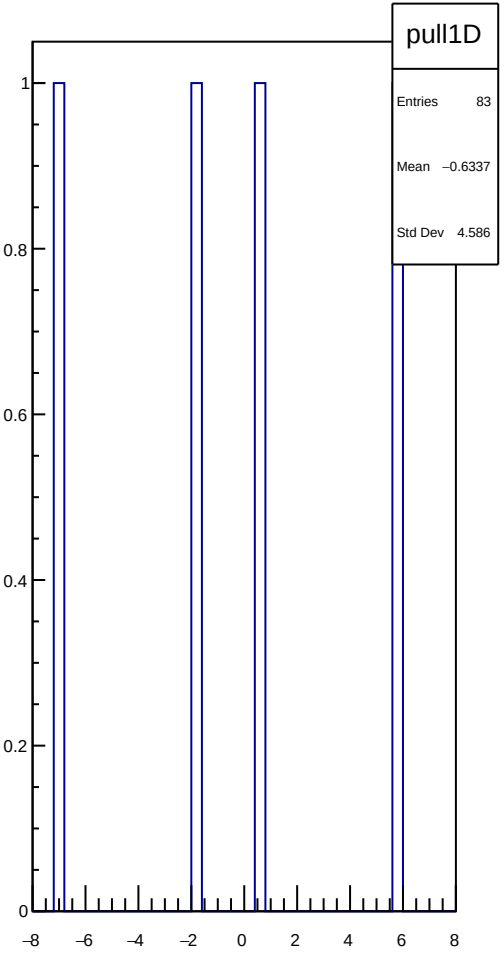

yield_bpm1i04X_rms vs run
χ² / ndf 8450 / 82
p0 0.006725 ± 5.311e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

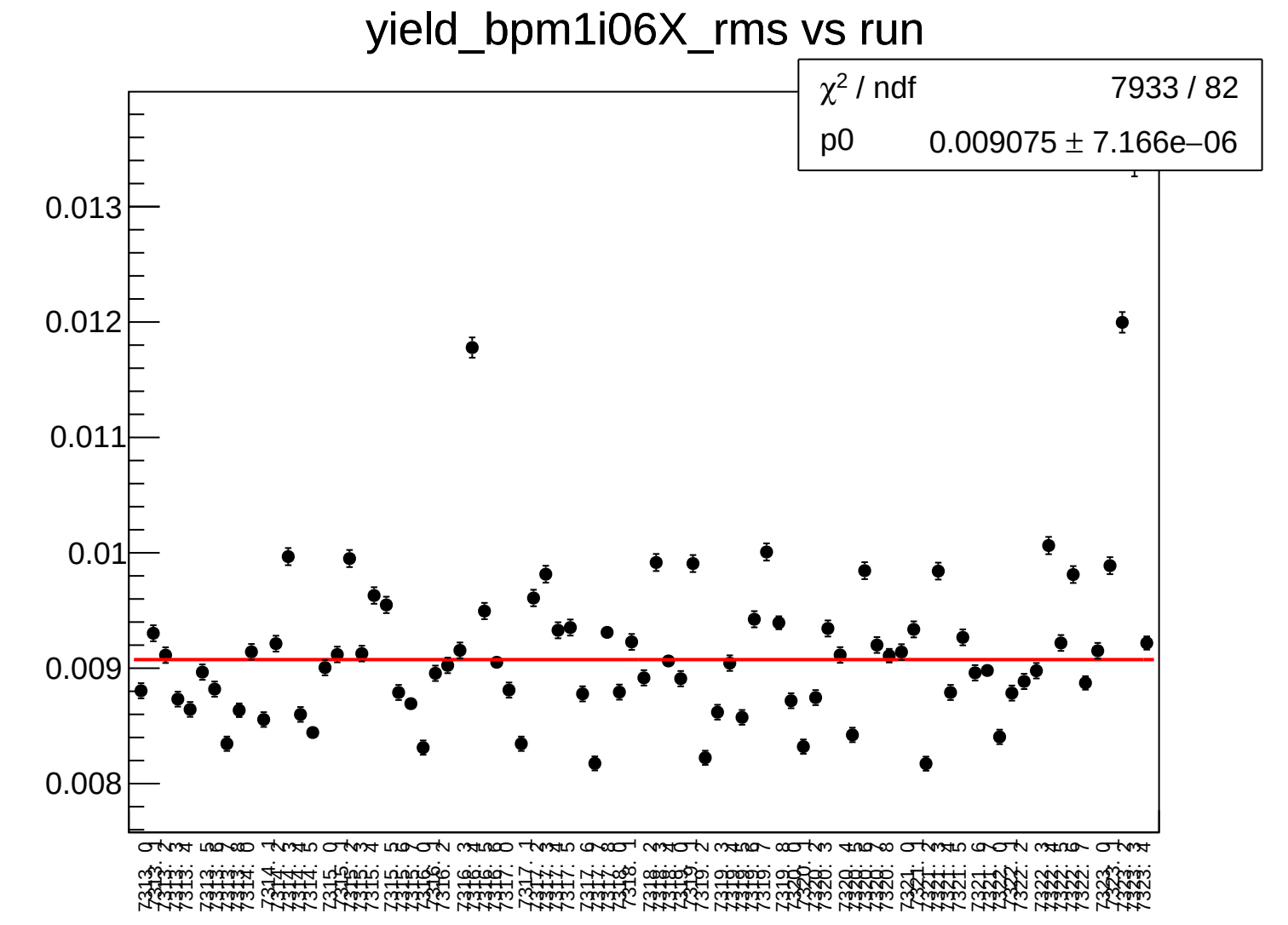

yield_bpm1i04Y_mean vs run
χ² / ndf 9.935e+06 / 82
p0 0.4181 ± 4.237e−06
0.44
0.43
0.42
0.41
0.4
0.39
pull
Entries 83
Mean 1038
Std Dev 0
600
400
200
0
−200
−400
−600

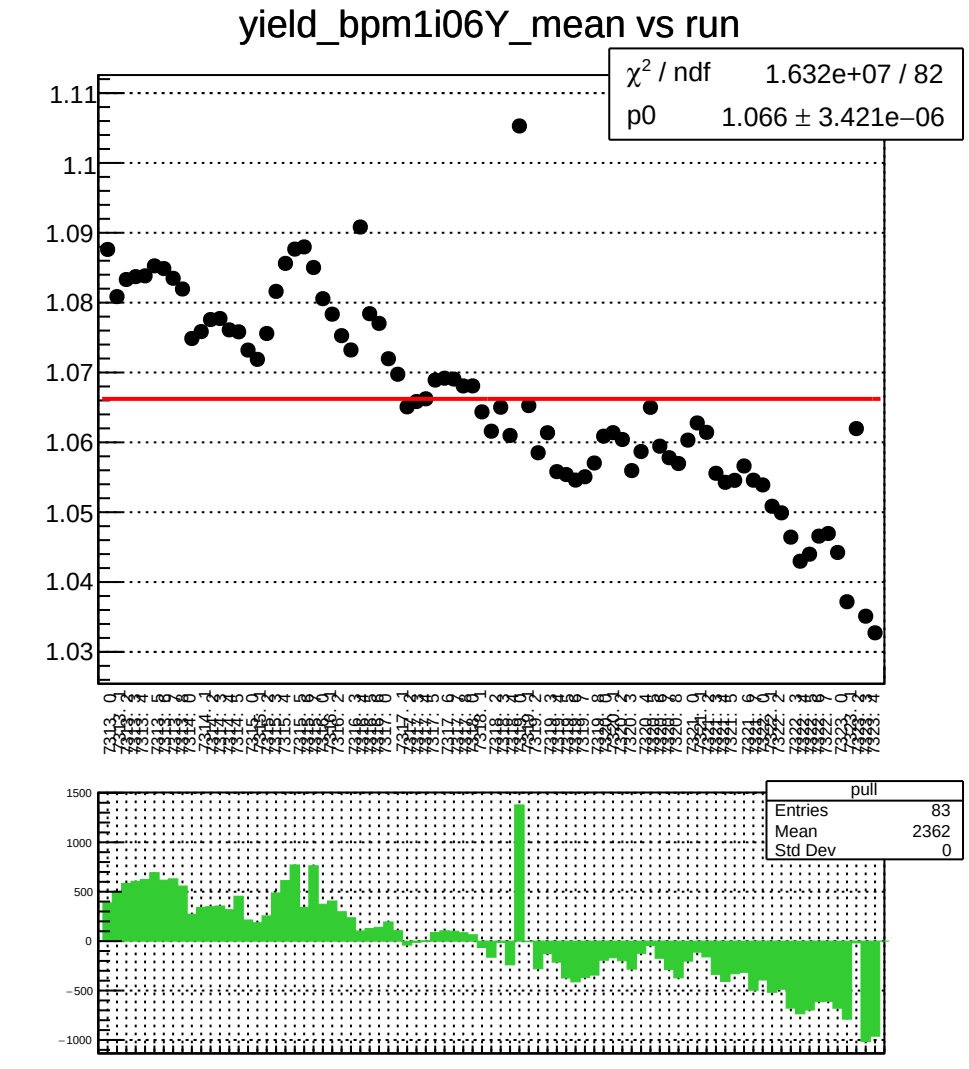

pull1D
Entries 83
Mean 2.113
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

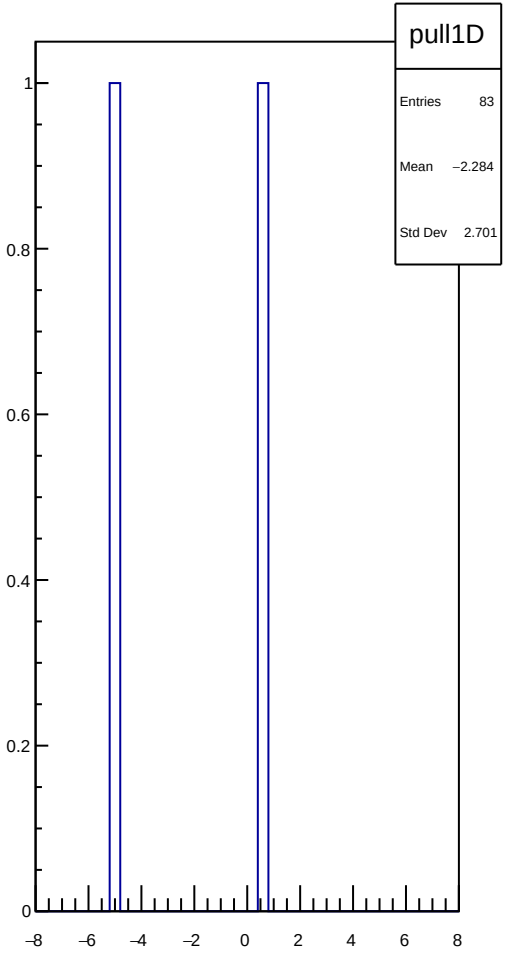

yield_bpm1i04Y_rms vs run
χ² / ndf 1.134e+04 / 82
p0 0.00379 ± 2.996e–06
0.0055
0.005
0.0045
0.004
0.0035

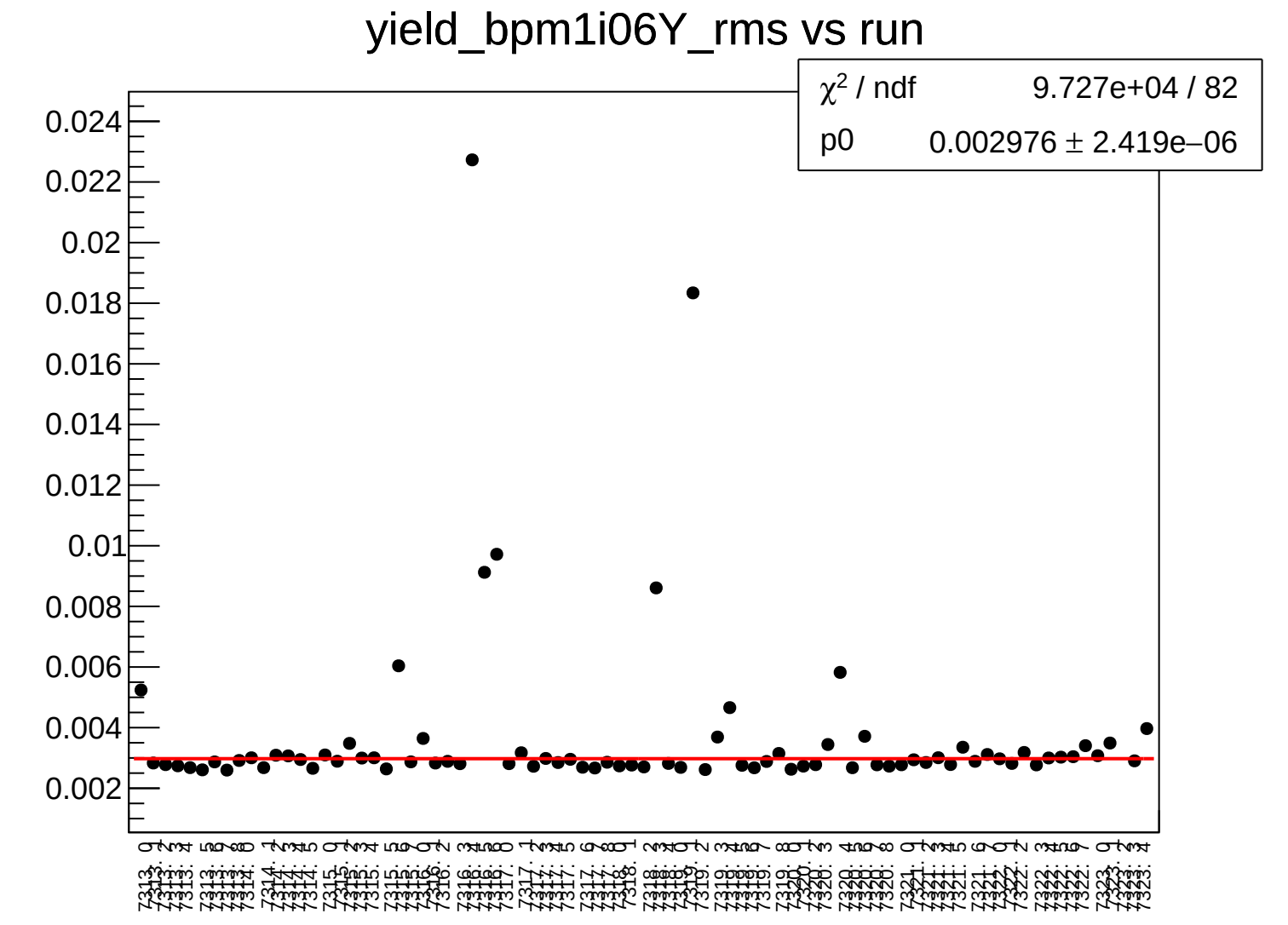

yield_bpm1i06X_mean vs run
χ² / ndf 1.319e+06 / 82
p0 2.009 ± 1.013e−05
2.03
2.02
2.01
2
1.99
1.98
pull
Entries 83
Mean 815.3
Std Dev 0
300
200
100
0
−100
−200
−300

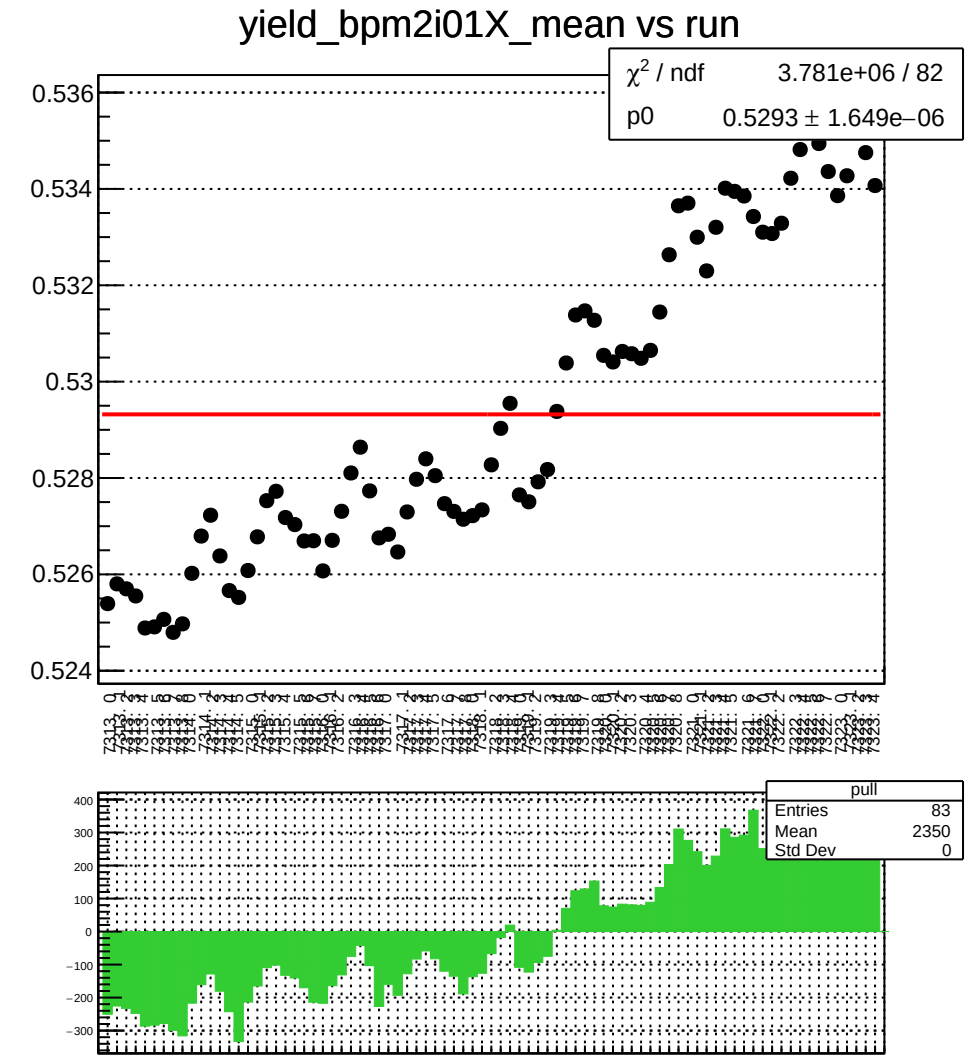

pull1D
Entries 83
Mean −0.6337
Std Dev 4.586
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

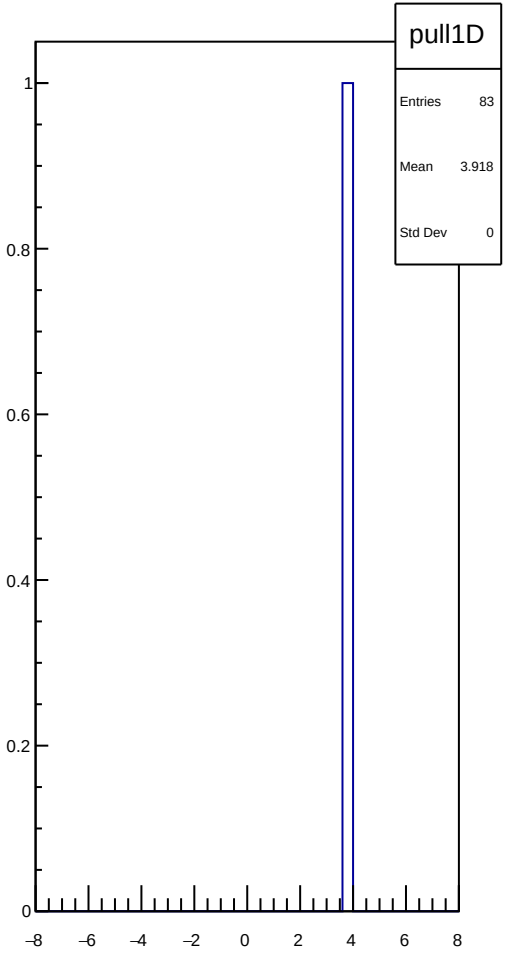

yield_bpm1i06X_rms vs run
χ² / ndf 7933 / 82
p0 0.009075 ± 7.166e−06
0.013
0.012
0.011
0.01
0.009
0.008

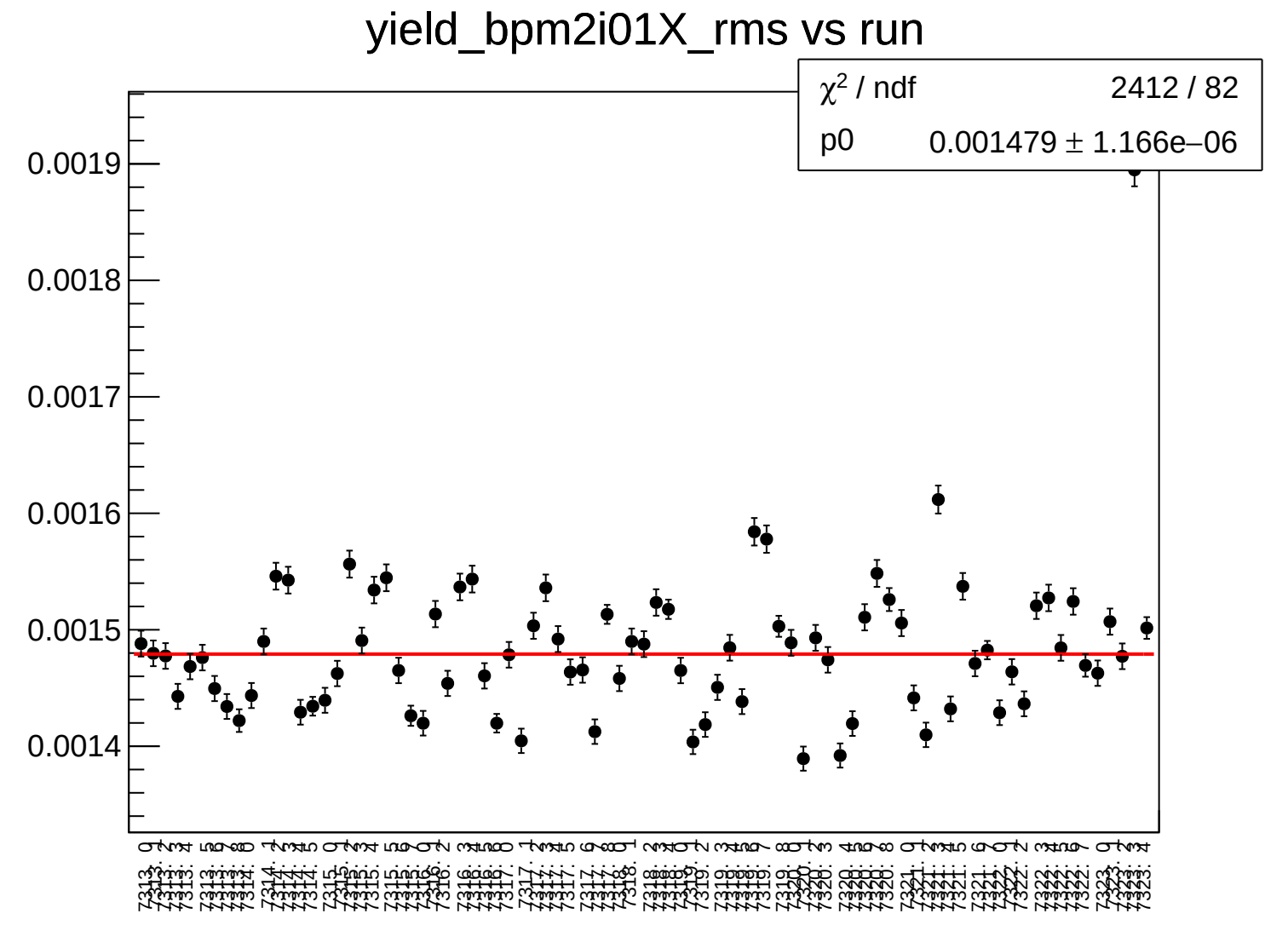

yield_bpm1i06Y_mean vs run
χ² / ndf 1.632e+07 / 82
p0 1.066 ± 3.421e−06
pull
Entries 83
Mean 2362
Std Dev 0

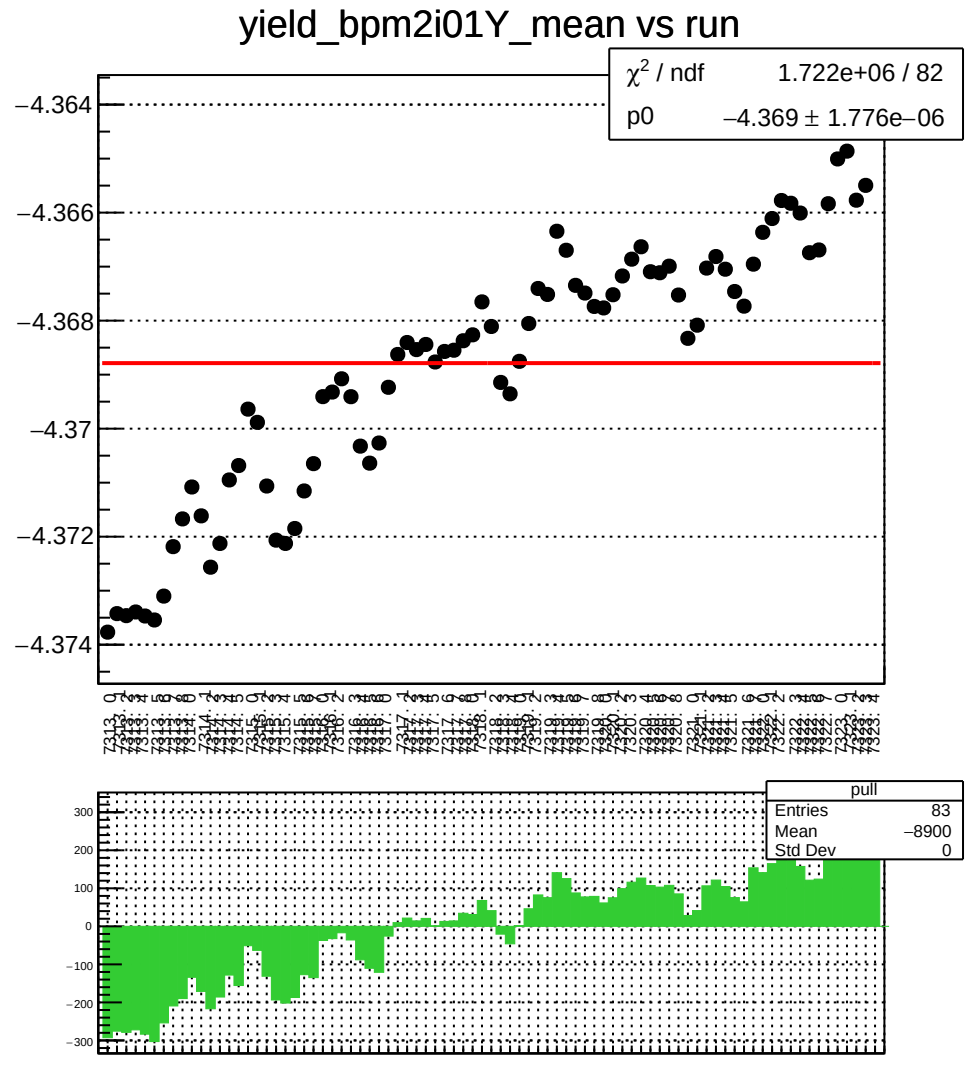

pull1D
Entries 83
Mean −2.284
Std Dev 2.701

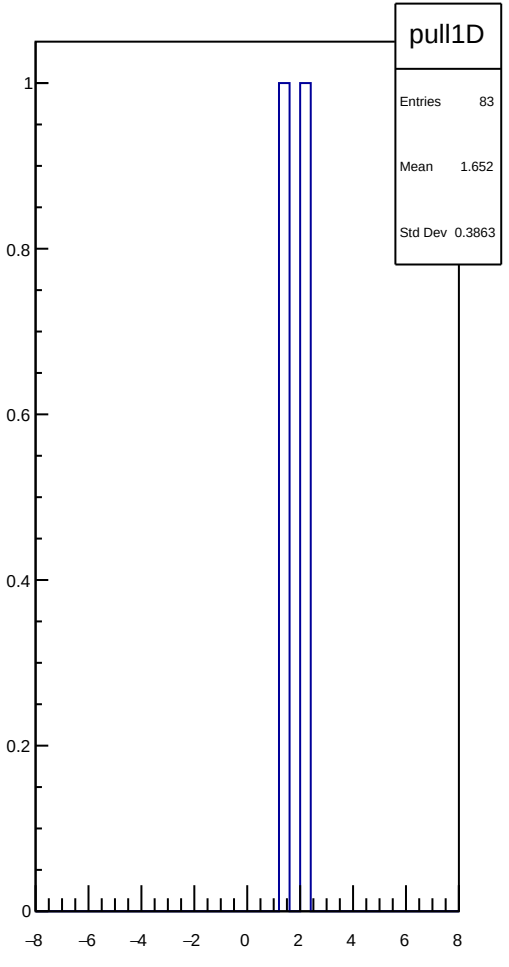

yield_bpm1i06Y_rms vs run
χ^2 / ndf 9.727e+04 / 82
p0 0.002976 ± 2.419e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

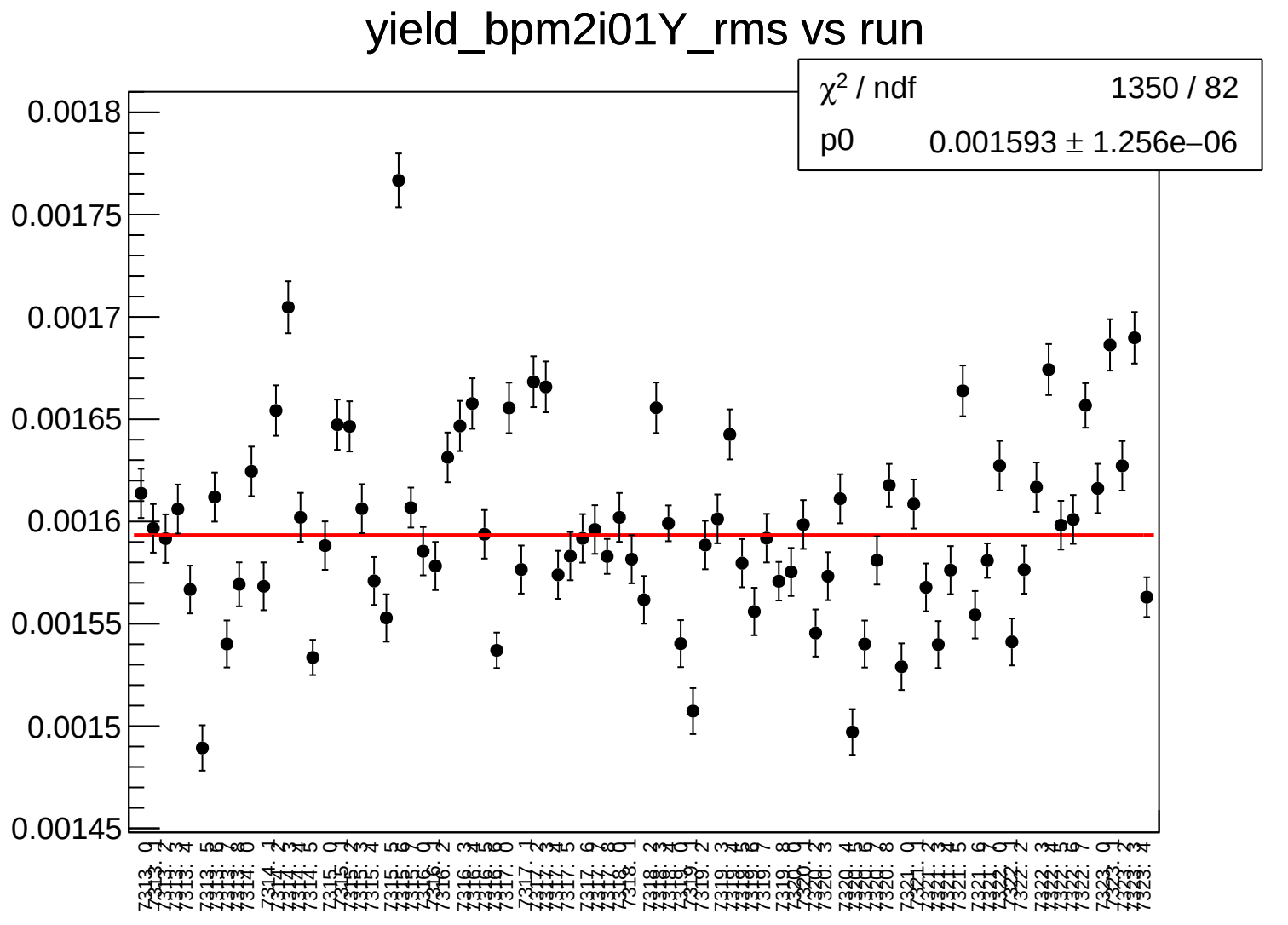

yield_bpm2i01X_mean vs run
χ² / ndf 3.781e+06 / 82
p0 0.5293 ± 1.649e−06
0.536
0.534
0.532
0.53
0.528
0.526
0.524
pull
Entries 83
Mean 2350
Std Dev 0
400
300
200
100
0
−100
−200
−300

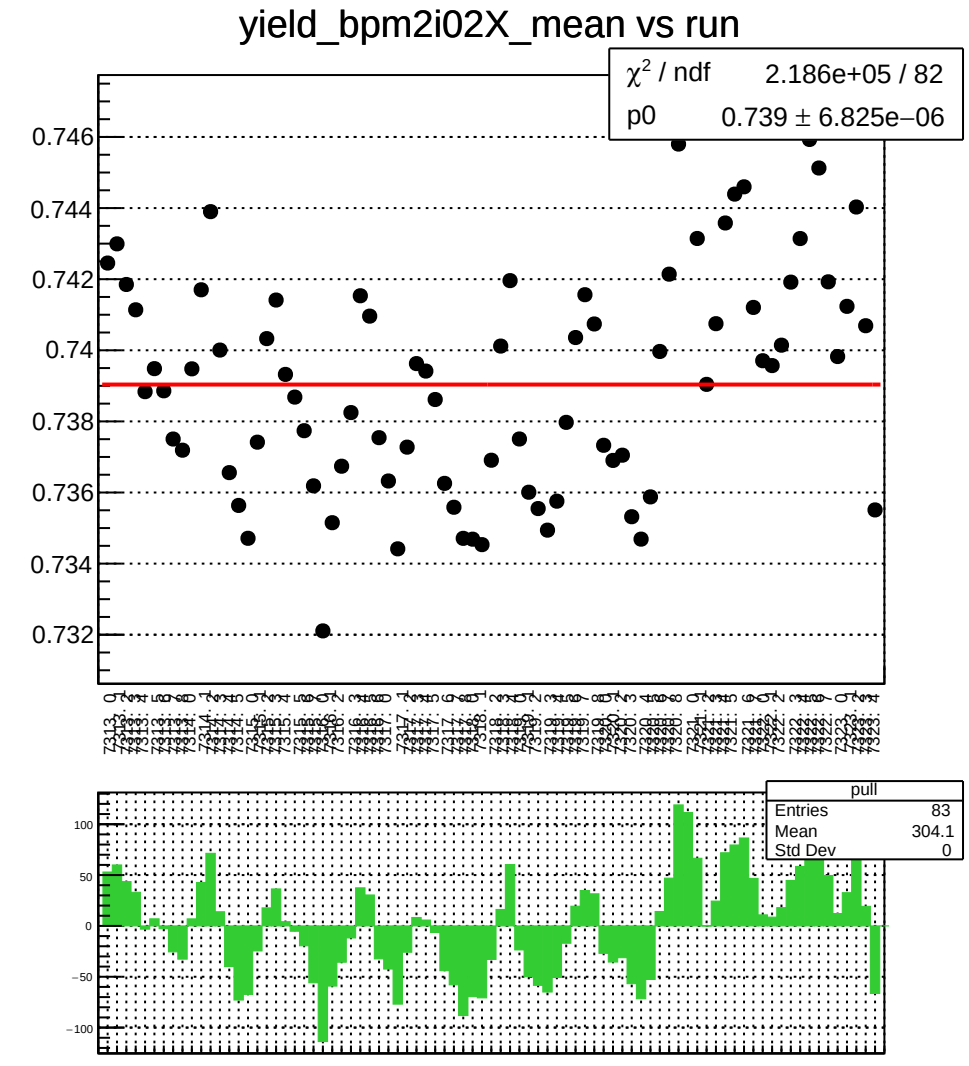

pull1D
Entries 83
Mean 3.918
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

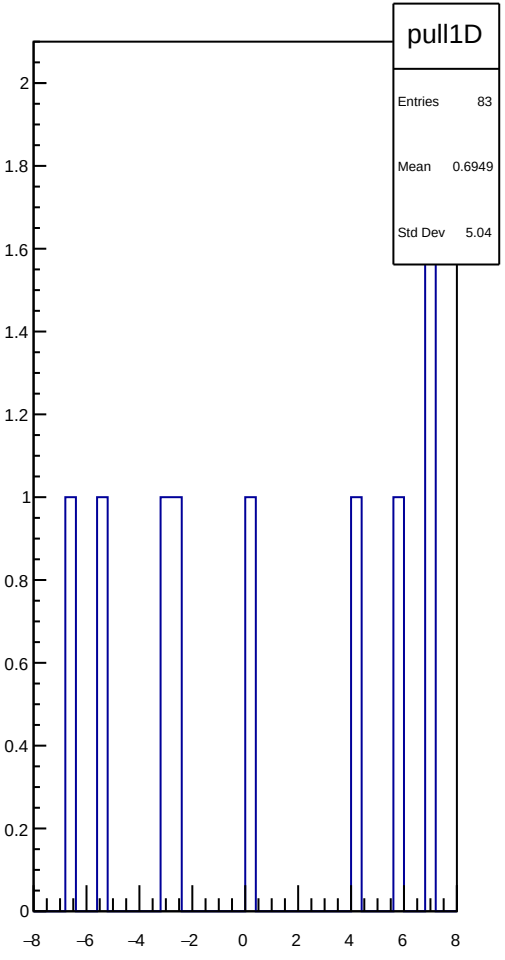

yield_bpm2i01X_rms vs run
χ² / ndf 2412 / 82
p0 0.001479 ± 1.166e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

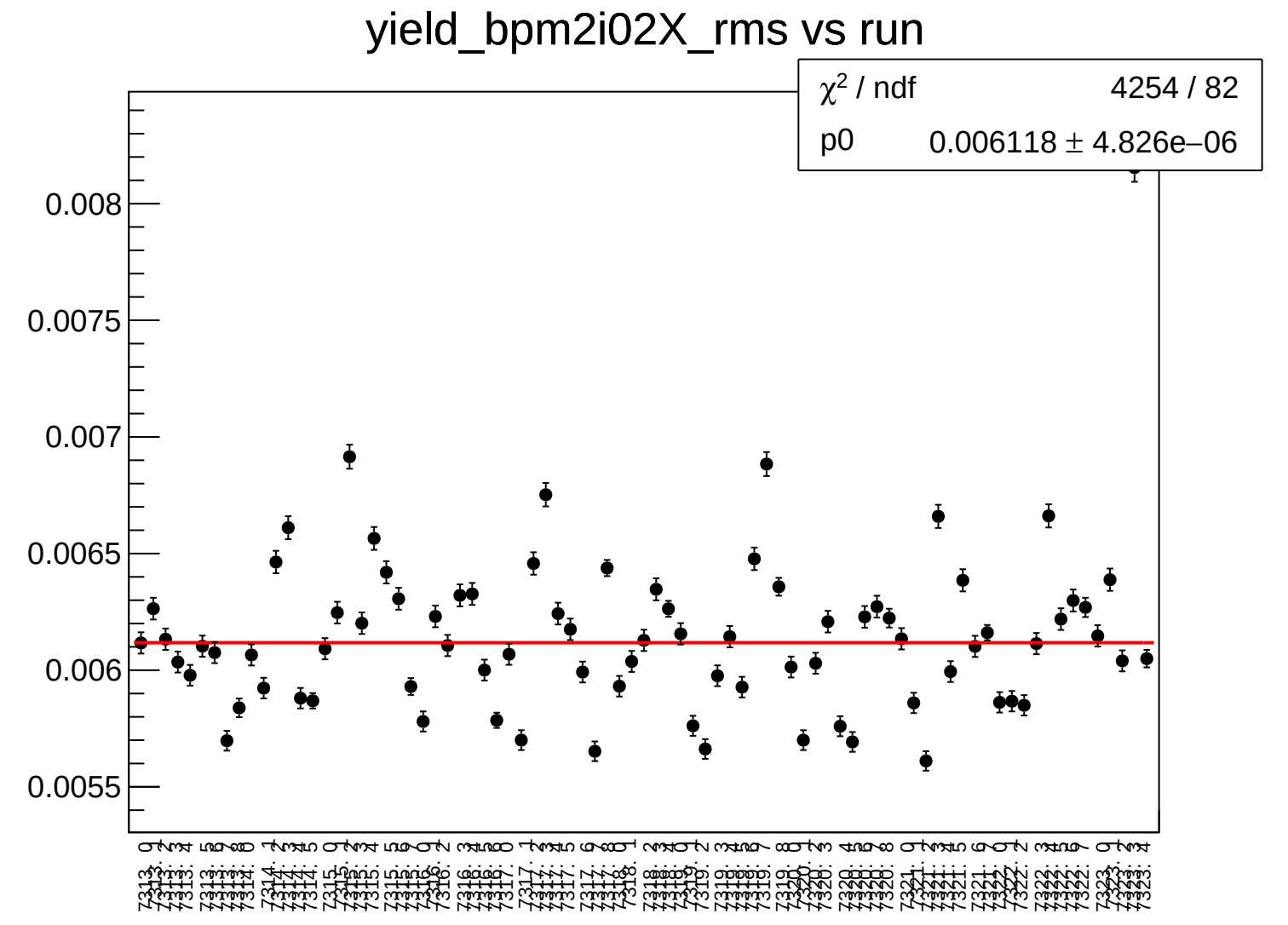

yield_bpm2i01Y_mean vs run
χ² / ndf 1.722e+06 / 82
p0 −4.369 ± 1.776e−06
−4.364
−4.366
−4.368
−4.37
−4.372
−4.374
pull
Entries 83
Mean −8900
Std Dev 0
300
200
100
0
−100
−200
−300

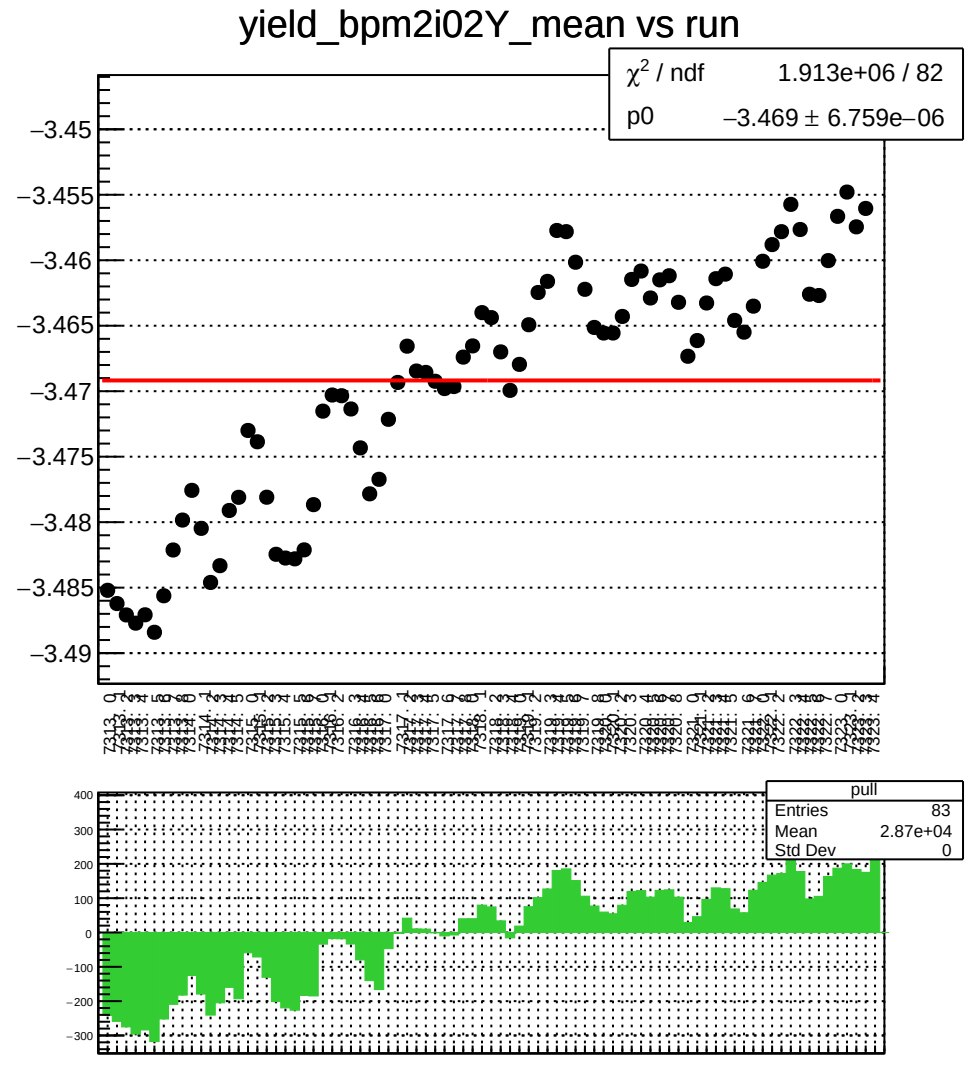

pull1D
Entries 83
Mean 1.652
Std Dev 0.3863
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

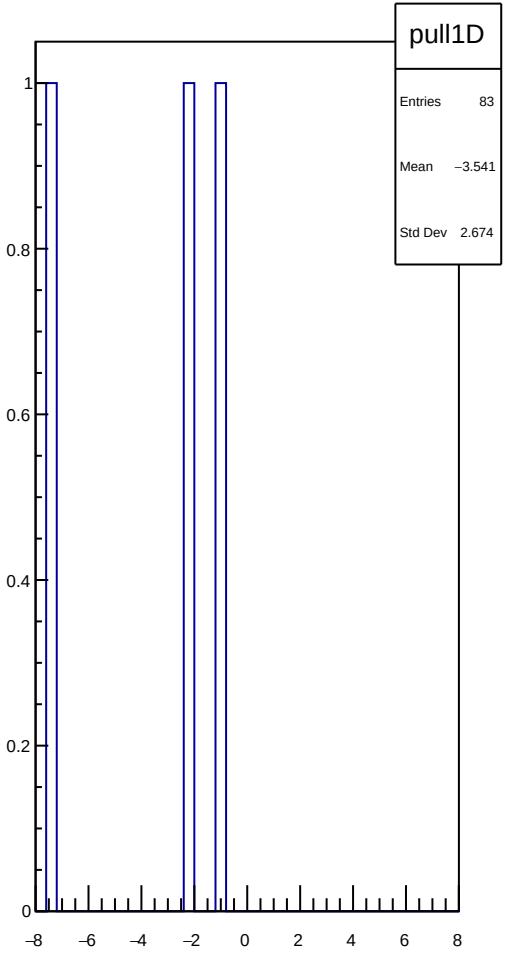

yield_bpm2i01Y_rms vs run
χ² / ndf 1350 / 82
p0 0.001593 ± 1.256e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

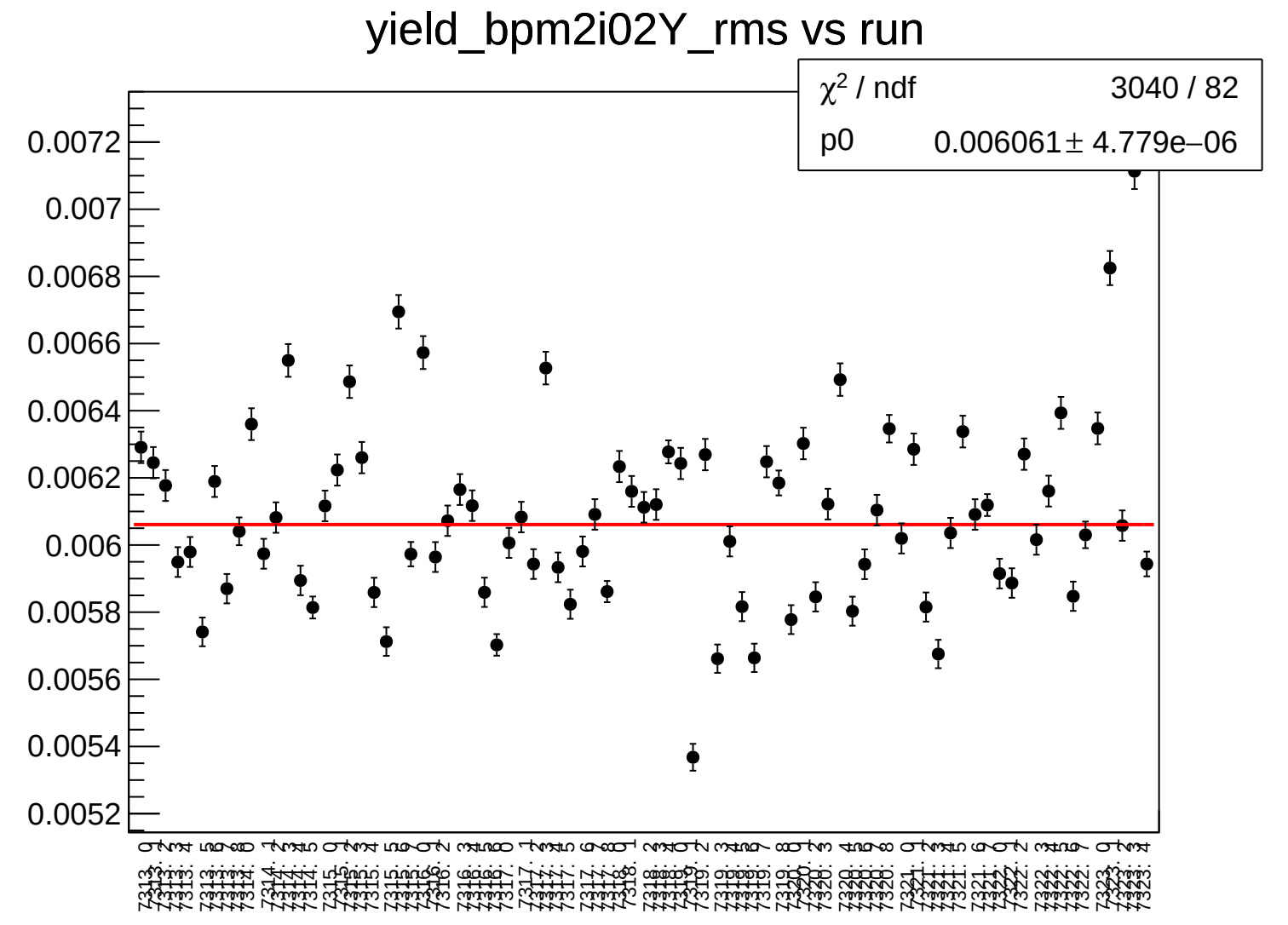

yield_bpm2i02X_mean vs run
χ² / ndf 2.186e+05 / 82
p0 0.739 ± 6.825e−06
0.746
0.744
0.742
0.74
0.738
0.736
0.734
0.732
pull
Entries 83
Mean 304.1
Std Dev 0
100
50
0
−50
−100

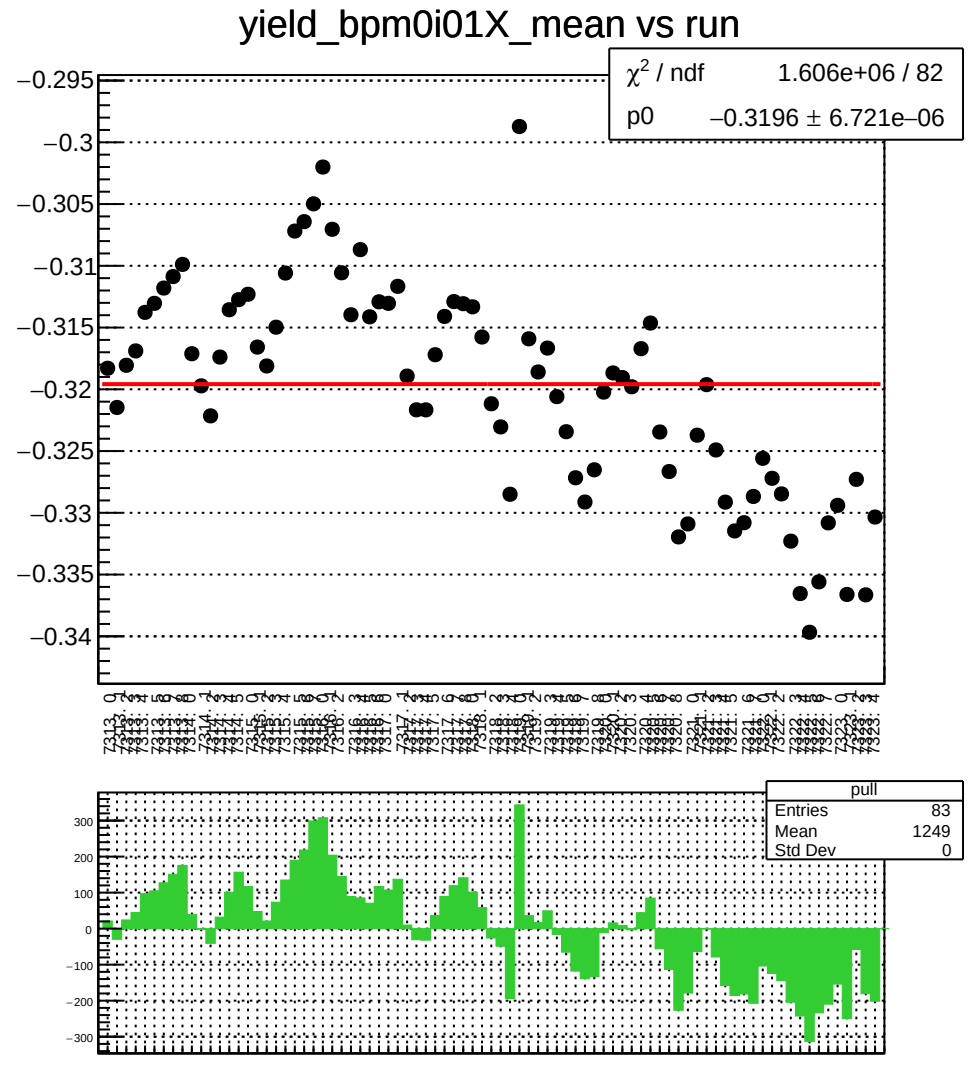

pull1D
Entries 83
Mean 0.6949
Std Dev 5.04
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

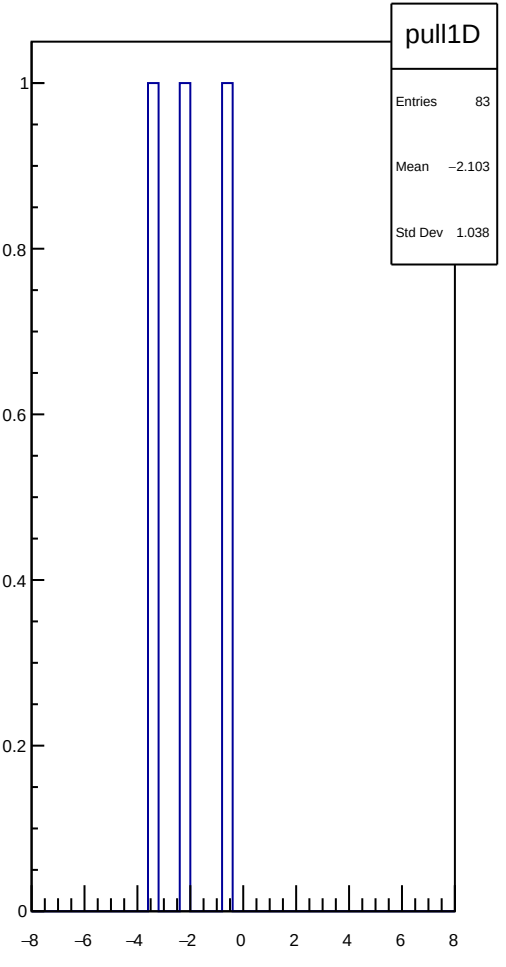

yield_bpm2i02X_rms vs run
χ² / ndf 4254 / 82
p0 0.006118 ± 4.826e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

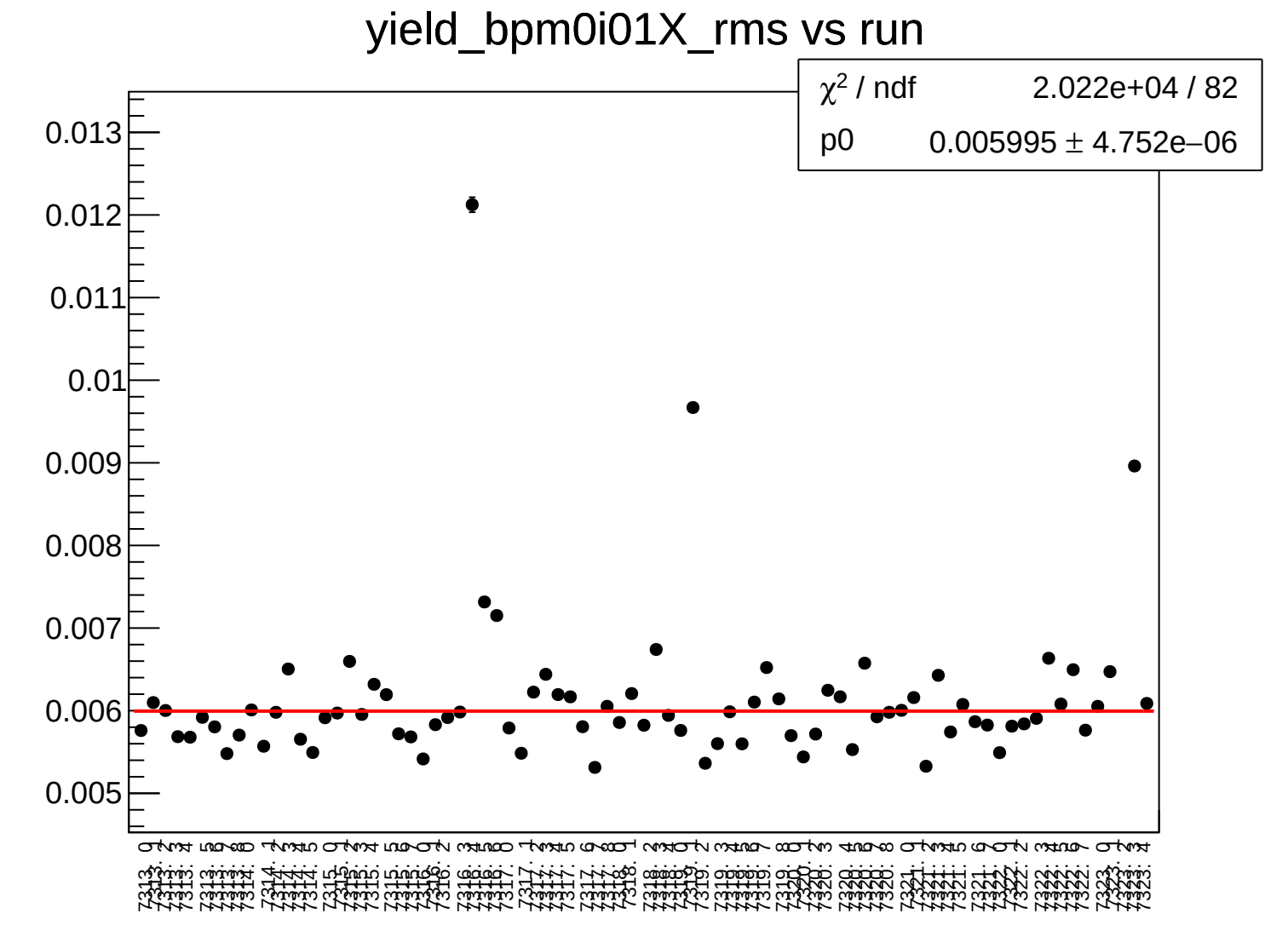

yield_bpm2i02Y_mean vs run
χ² / ndf 1.913e+06 / 82
p0 −3.469 ± 6.759e−06
−3.45
−3.455
−3.46
−3.465
−3.47
−3.475
−3.48
−3.485
−3.49
pull
Entries 83
Mean 2.87e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

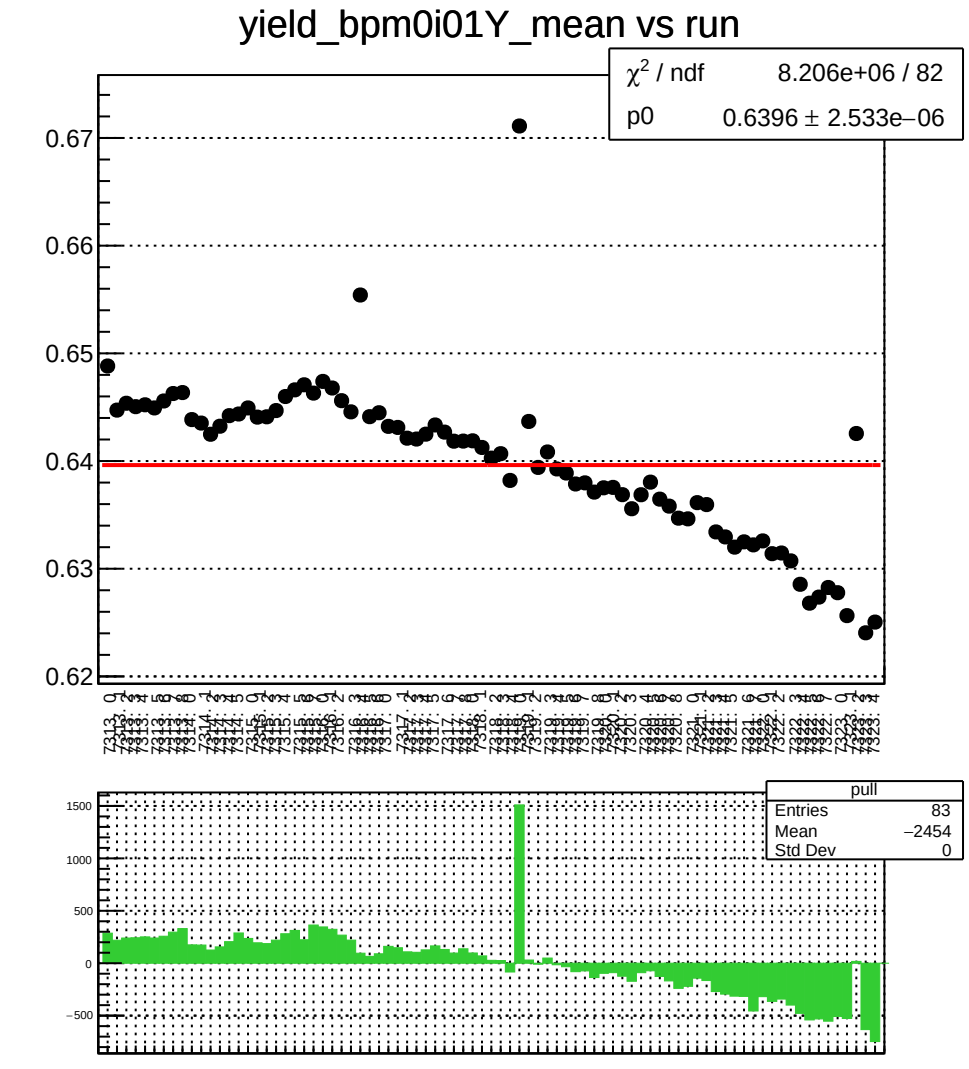

pull1D
Entries 83
Mean −3.541
Std Dev 2.674
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

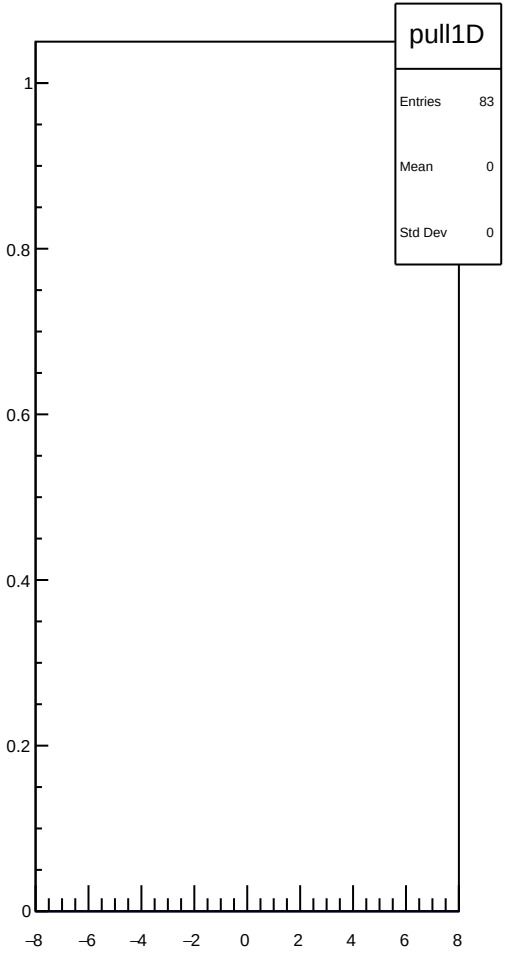

yield_bpm2i02Y_rms vs run
χ² / ndf 3040 / 82
p0 0.006061 ± 4.779e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

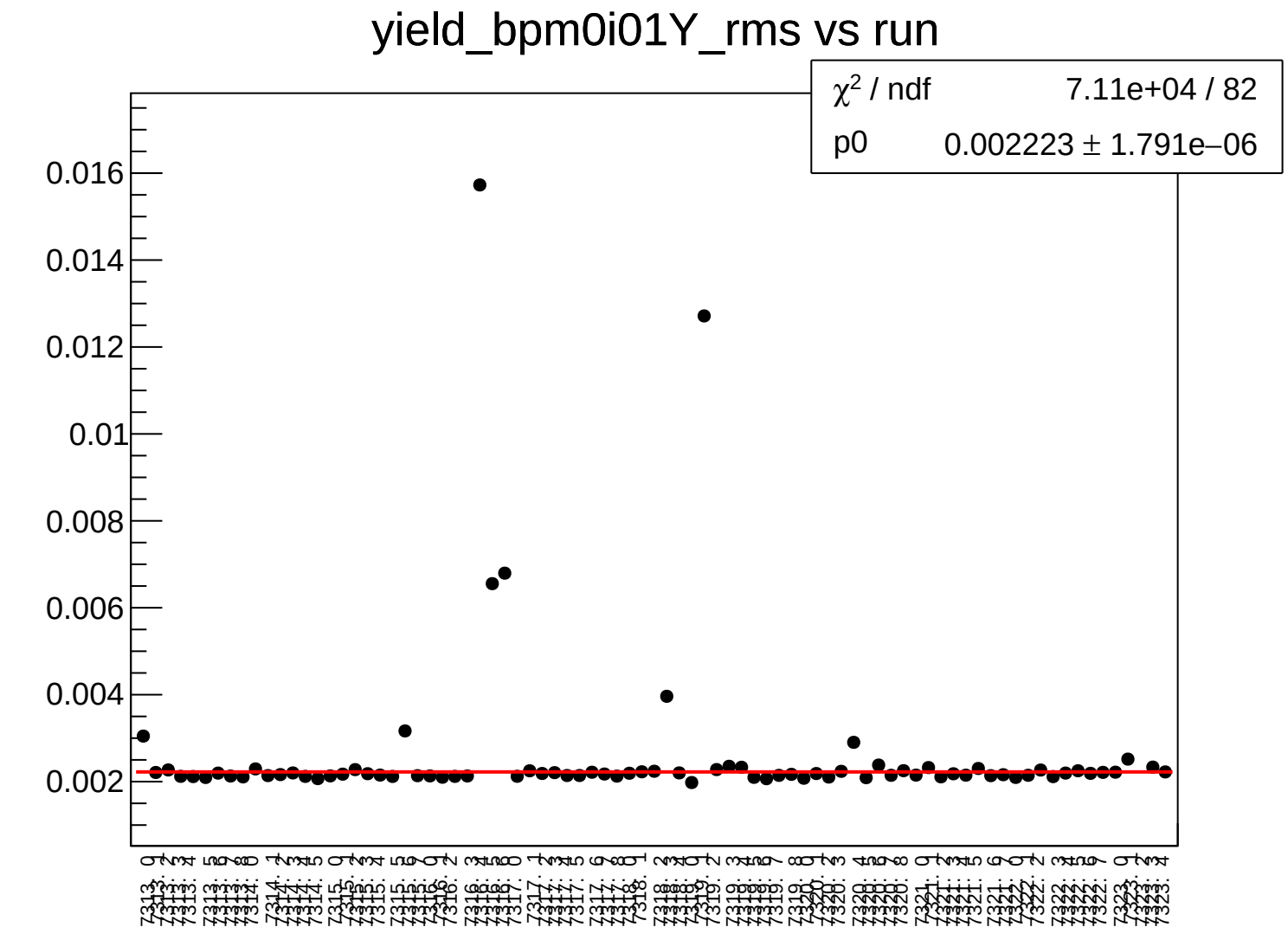

yield_bpm0i01X_mean vs run
χ² / ndf 1.606e+06 / 82
p0 −0.3196 ± 6.721e−06
−0.295
−0.3
−0.305
−0.31
−0.315
−0.32
−0.325
−0.33
−0.335
−0.34
pull
Entries 83
Mean 1249
Std Dev 0
300
200
100
0
−100
−200
−300

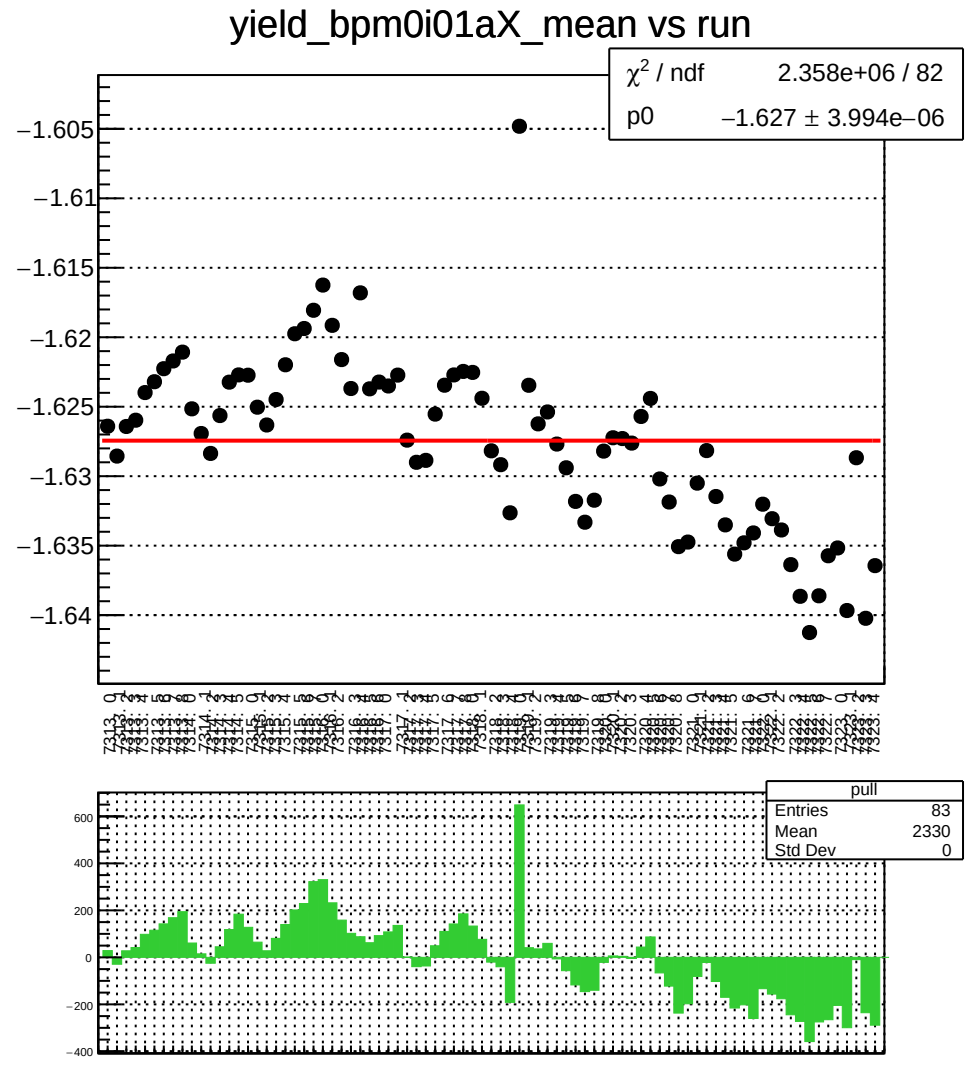

pull1D
Entries 83
Mean −2.103
Std Dev 1.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

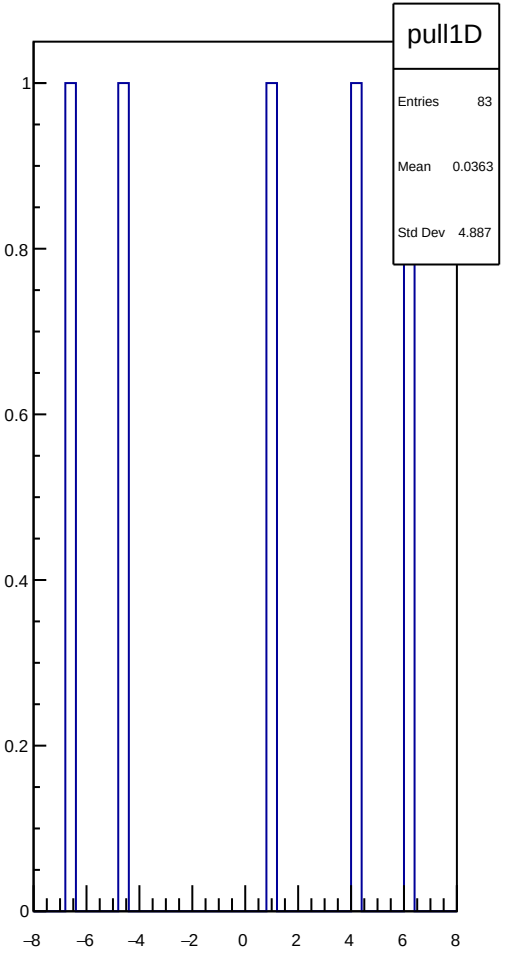

yield_bpm0i01X_rms vs run
χ^2 / ndf 2.022e+04 / 82
p0 0.005995 ± 4.752e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

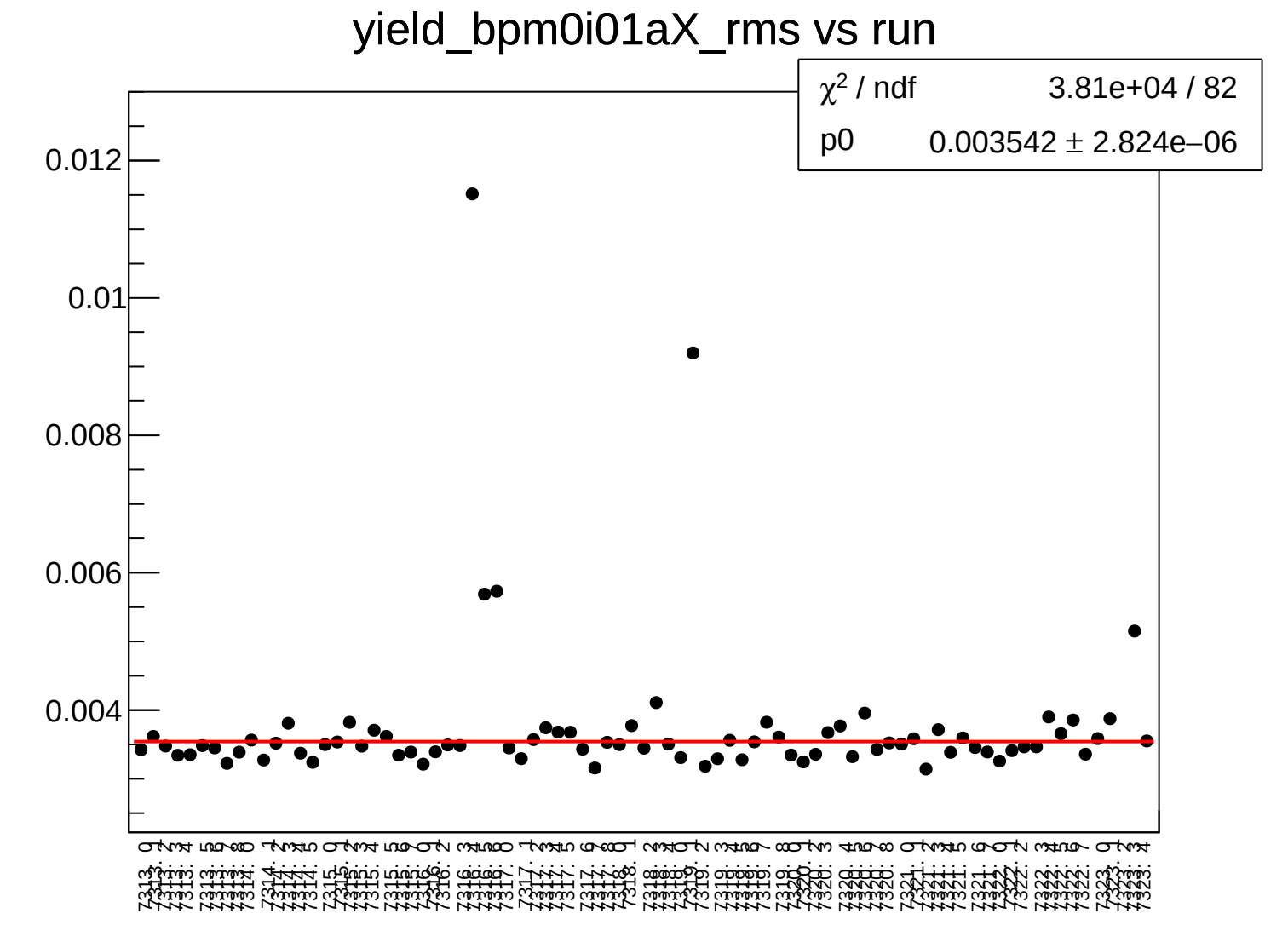

yield_bpm0i01Y_mean vs run
χ² / ndf 8.206e+06 / 82
p0 0.6396 ± 2.533e−06
0.67
0.66
0.65
0.64
0.63
0.62
pull
Entries 83
Mean −2454
Std Dev 0
1500
1000
500
0
−500

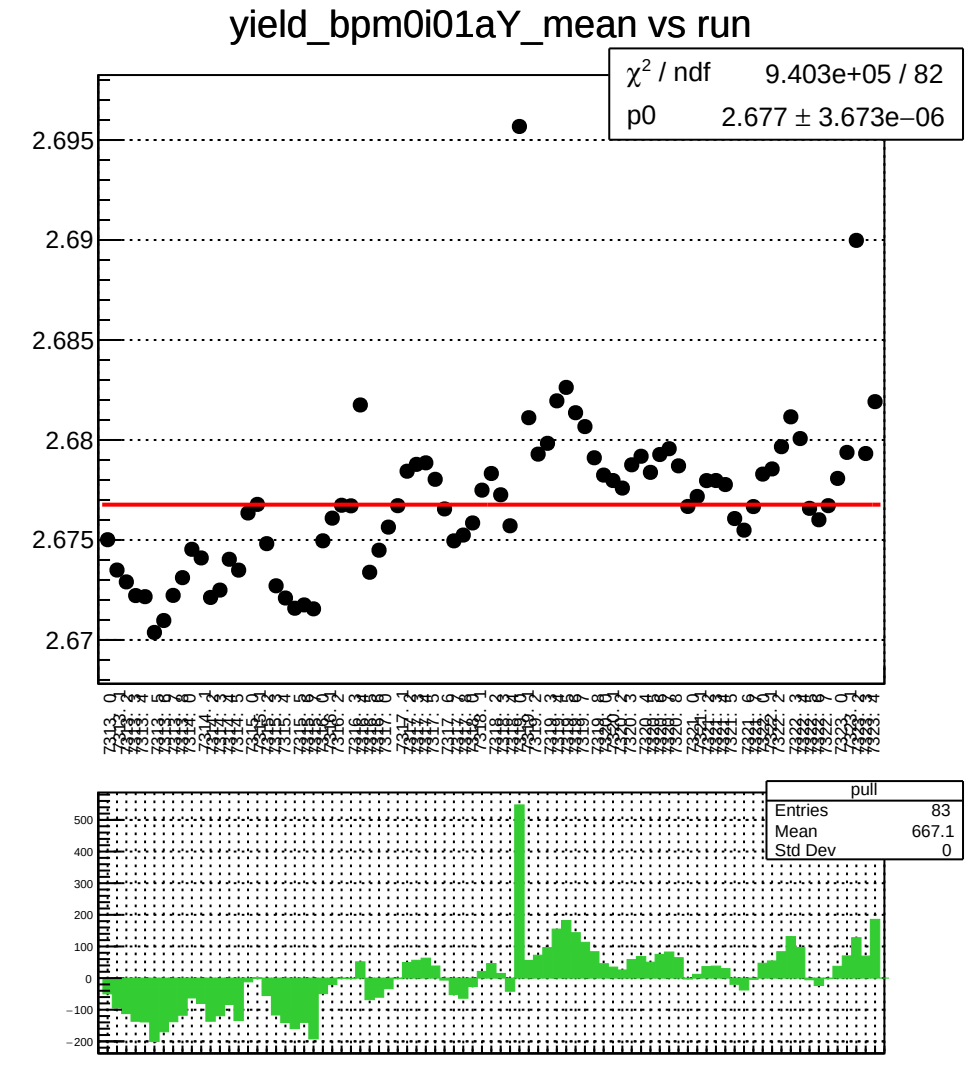

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

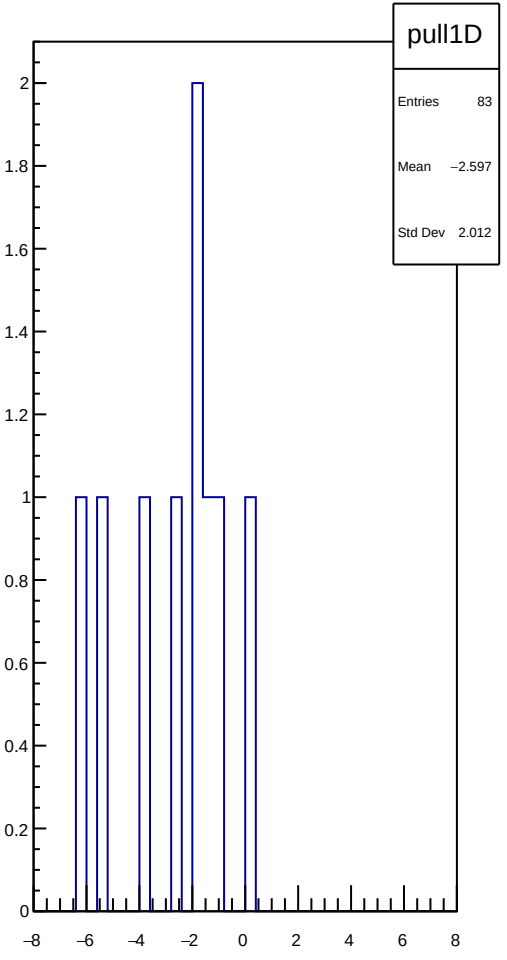

yield_bpm0i01Y_rms vs run
χ^2 / ndf 7.11e+04 / 82
p0 0.002223 ± 1.791e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

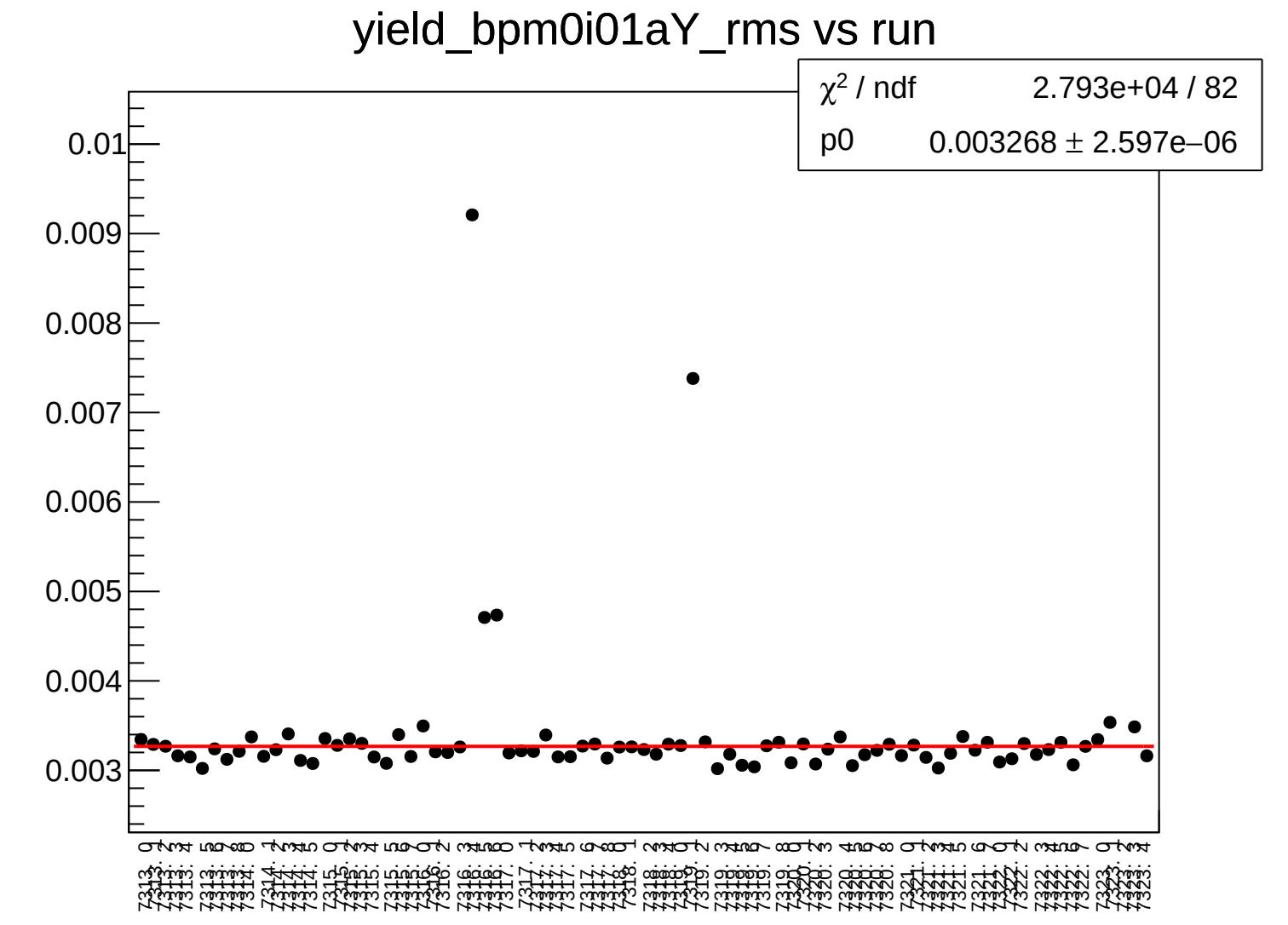

yield_bpm0i01aX_mean vs run
χ² / ndf 2.358e+06 / 82
p0 −1.627 ± 3.994e−06
−1.605
−1.61
−1.615
−1.62
−1.625
−1.63
−1.635
−1.64
pull
Entries 83
Mean 2330
Std Dev 0
600
400
200
0
−200
−400

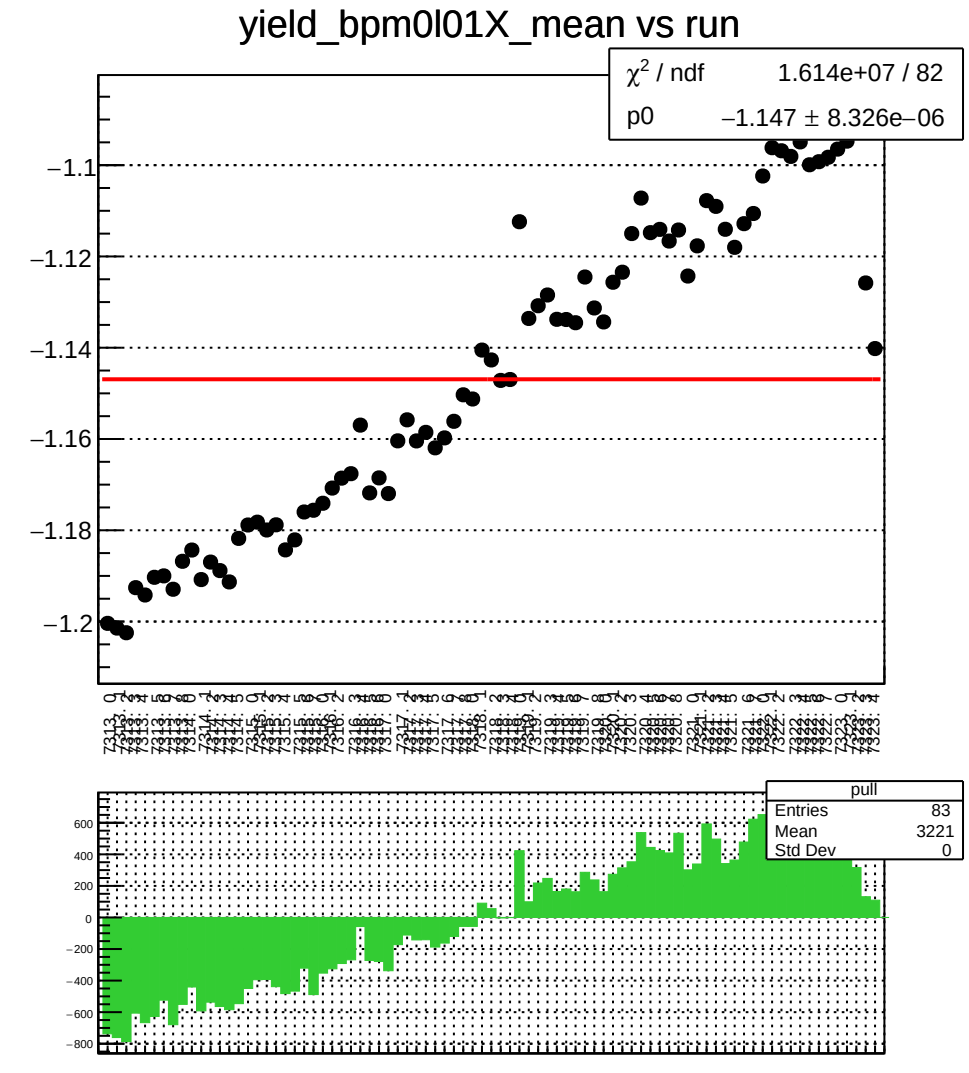

pull1D
Entries 83
Mean 0.0363
Std Dev 4.887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

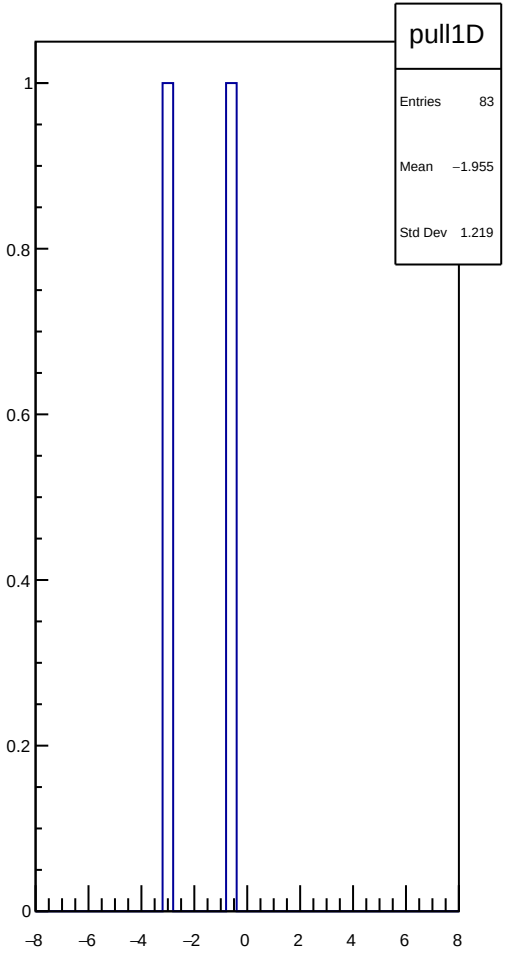

yield_bpm0i01aX_rms vs run
χ² / ndf 3.81e+04 / 82
p0 0.003542 ± 2.824e−06
0.012
0.01
0.008
0.006
0.004

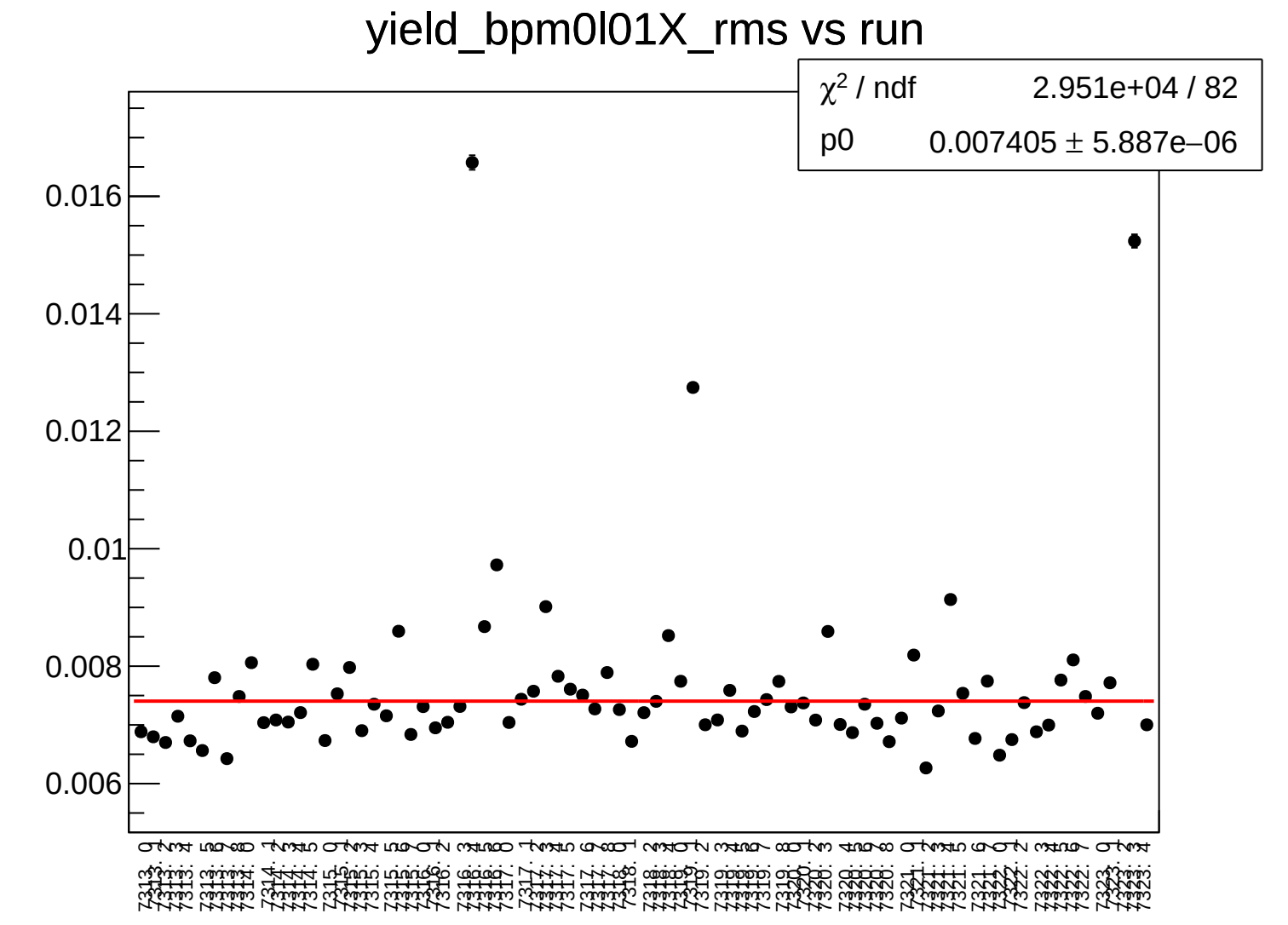

yield_bpm0i01aY_mean vs run
χ² / ndf 9.403e+05 / 82
p0 2.677 ± 3.673e−06
2.695
2.69
2.685
2.68
2.675
2.67
pull
Entries 83
Mean 667.1
Std Dev 0
500
400
300
200
100
0
−100
−200

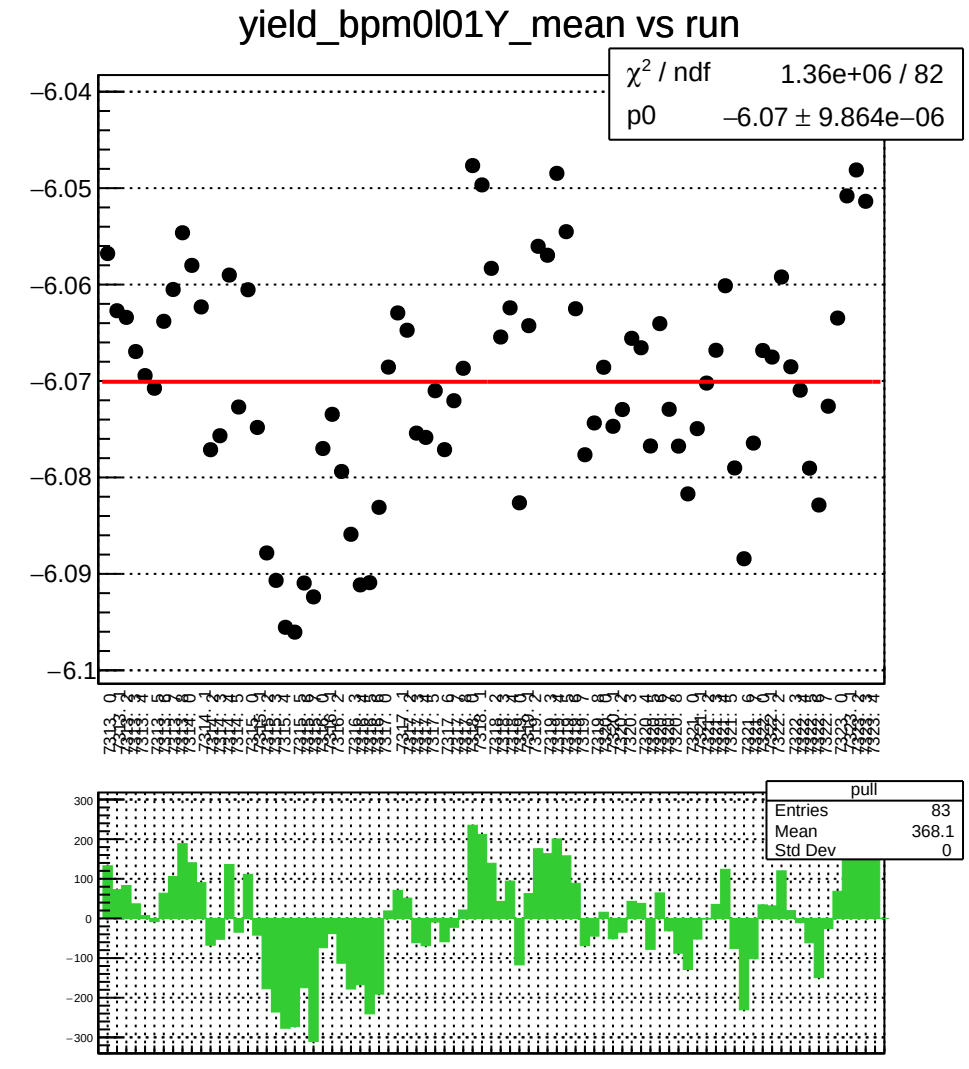

pull1D
Entries 83
Mean −2.597
Std Dev 2.012
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

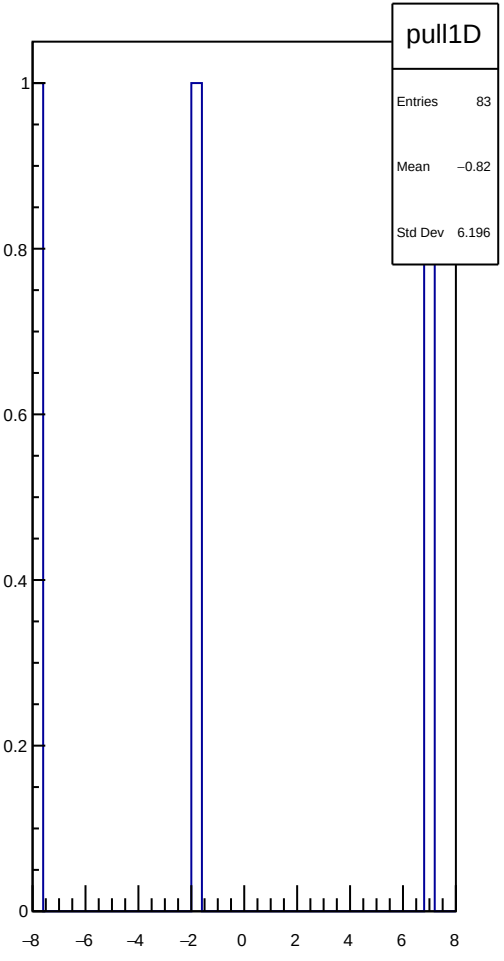

yield_bpm0i01aY_rms vs run
χ² / ndf 2.793e+04 / 82
p0 0.003268 ± 2.597e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

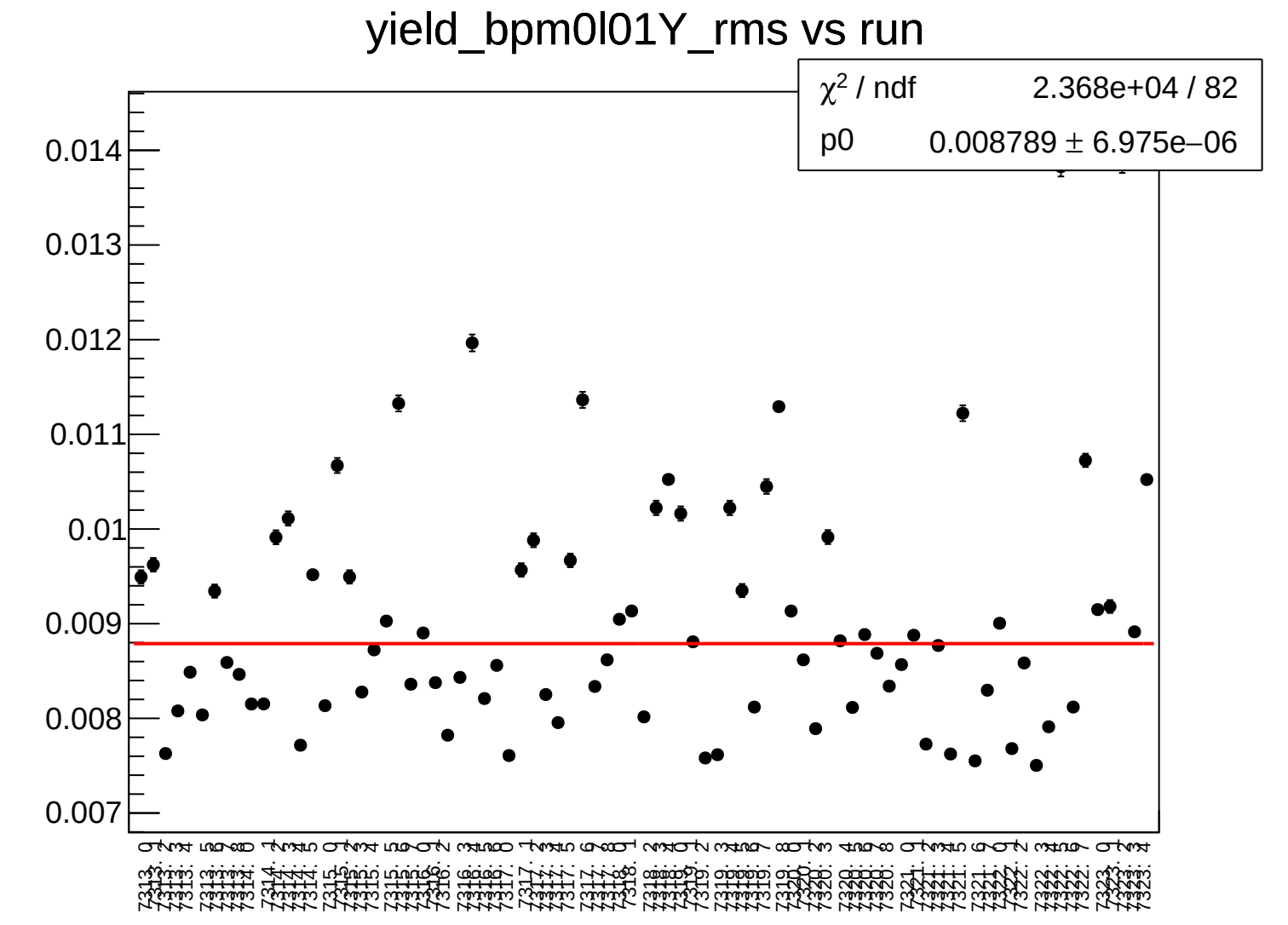

yield_bpm0l01X_mean vs run
χ² / ndf 1.614e+07 / 82
p0 −1.147 ± 8.326e−06
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
pull
Entries 83
Mean 3221
Std Dev 0
600
400
200
0
−200
−400
−600
−800

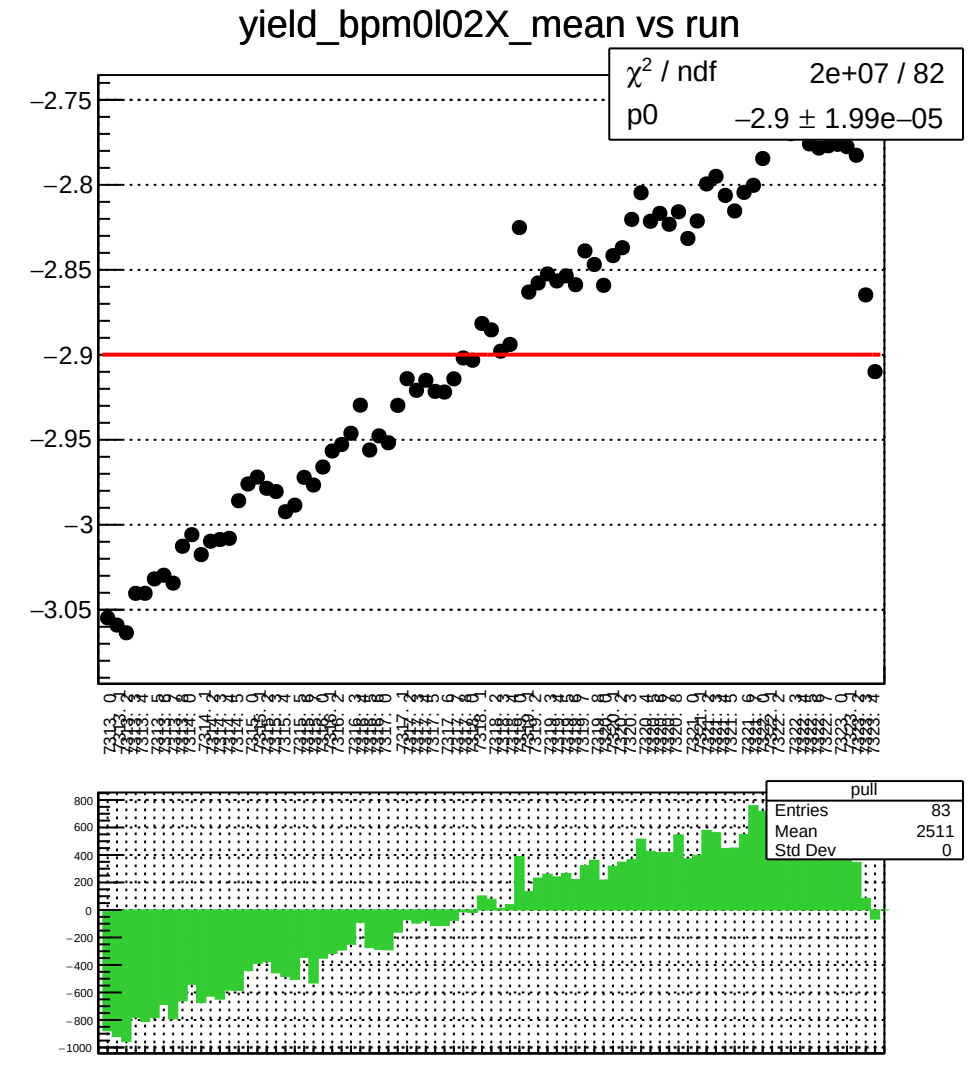

pull1D
Entries 83
Mean −1.955
Std Dev 1.219
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

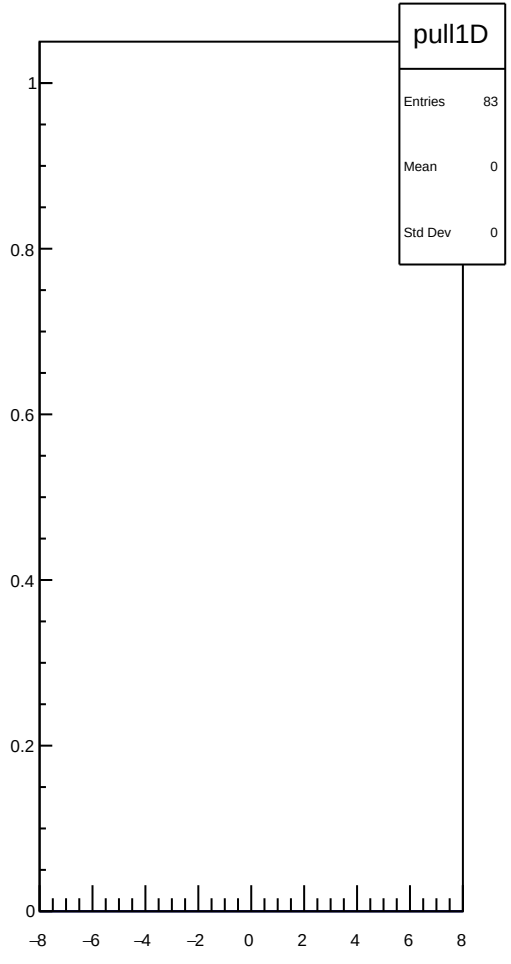

yield_bpm0l01X_rms vs run
χ² / ndf 2.951e+04 / 82
p0 0.007405 ± 5.887e−06
0.016
0.014
0.012
0.01
0.008
0.006

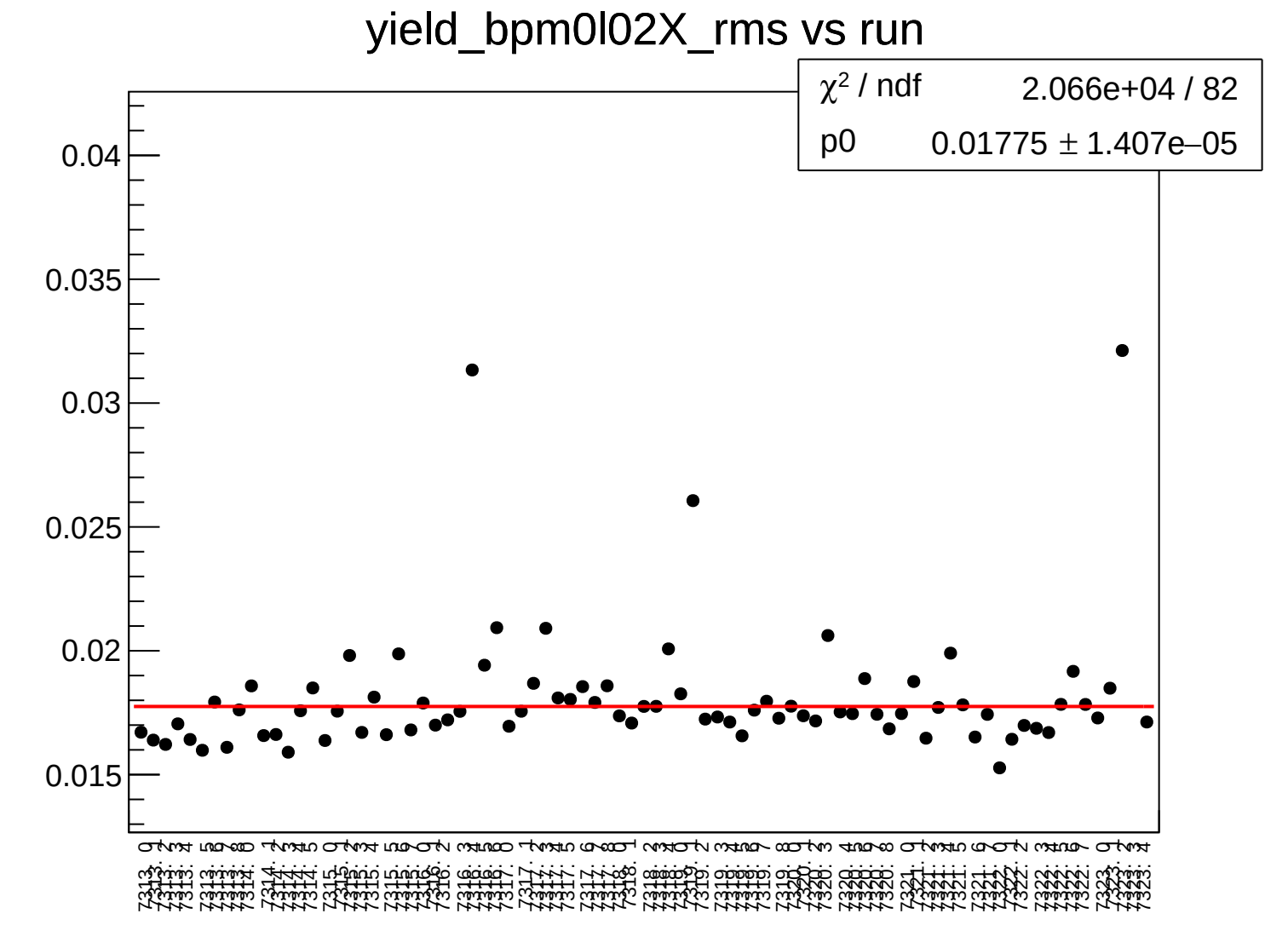

yield_bpm0l01Y_mean vs run
χ² / ndf 1.36e+06 / 82
p0 −6.07 ± 9.864e−06
−6.04
−6.05
−6.06
−6.07
−6.08
−6.09
−6.1
pull
Entries 83
Mean 368.1
Std Dev 0
300
200
100
0
−100
−200
−300

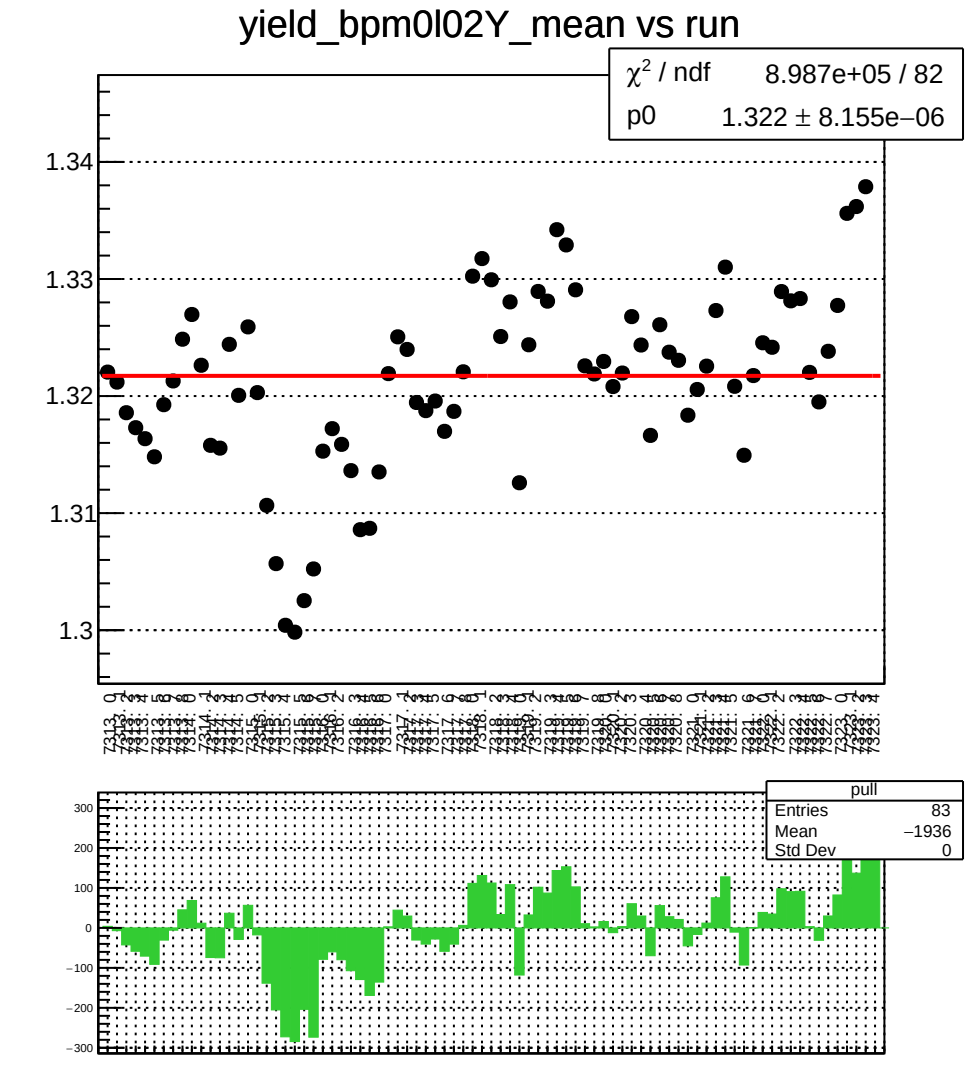

pull1D
Entries 83
Mean −0.82
Std Dev 6.196
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

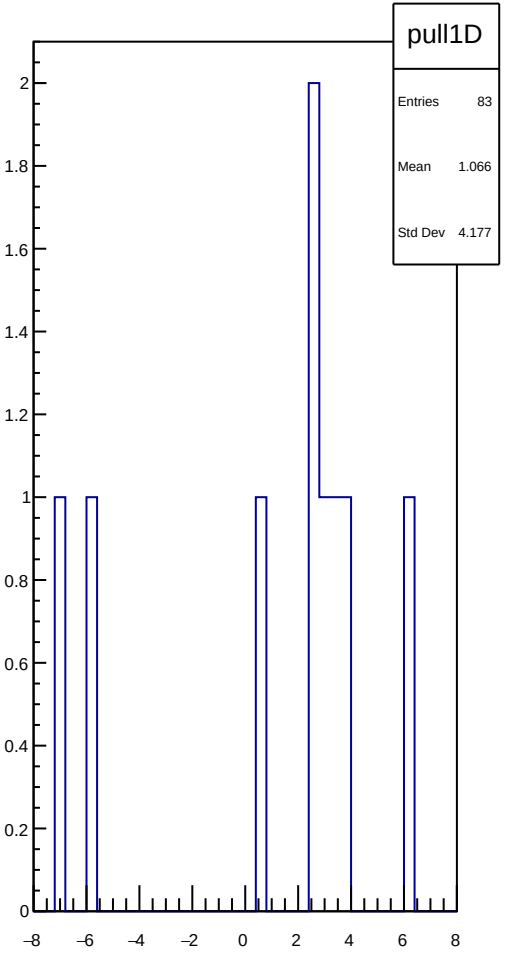

yield_bpm0l01Y_rms vs run
χ^2 / ndf 2.368e+04 / 82
p0 0.008789 ± 6.975e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

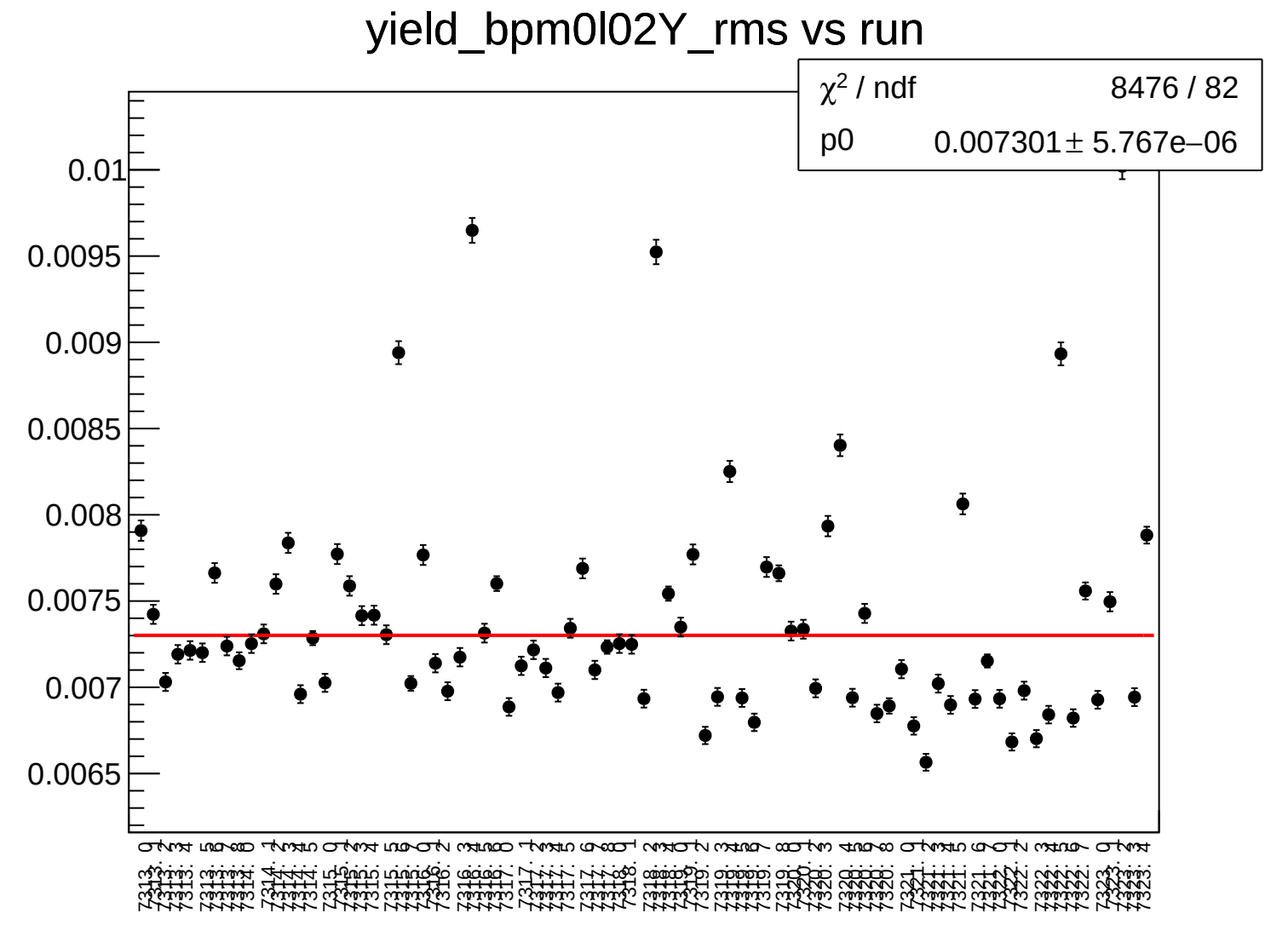

yield_bpm0l02X_mean vs run
χ² / ndf 2e+07 / 82
p0 −2.9 ± 1.99e−05
−2.75
−2.8
−2.85
−2.9
−2.95
−3
−3.05
pull
Entries 83
Mean 2511
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

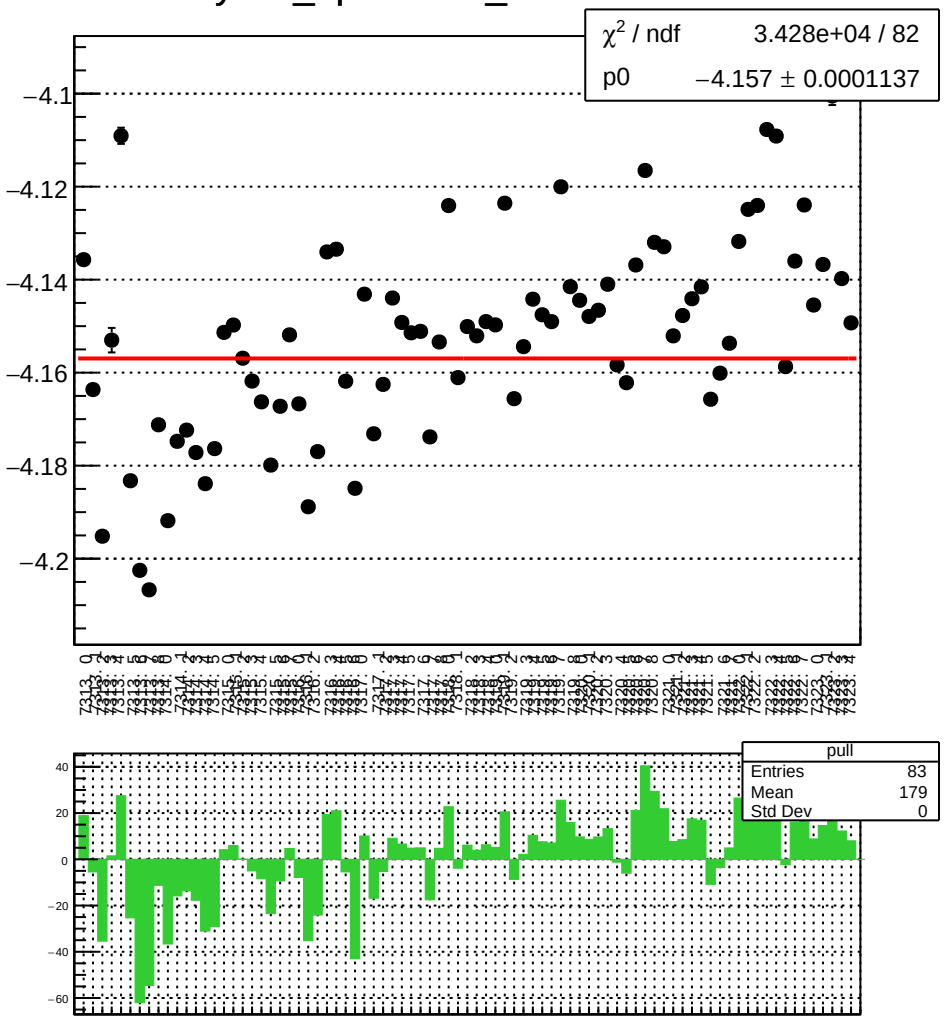

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

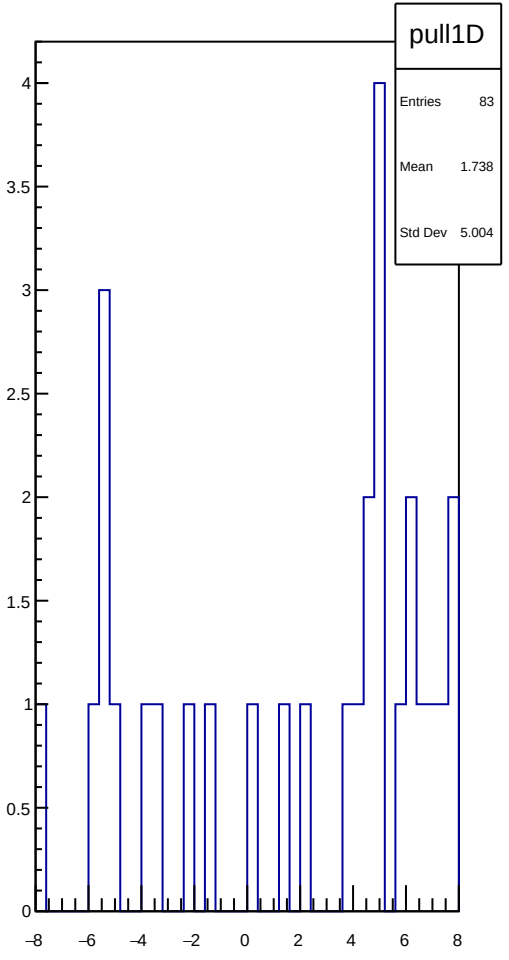

yield_bpm0l02X_rms vs run
χ² / ndf 2.066e+04 / 82
p0 0.01775 ± 1.407e–05
0.04
0.035
0.03
0.025
0.02
0.015

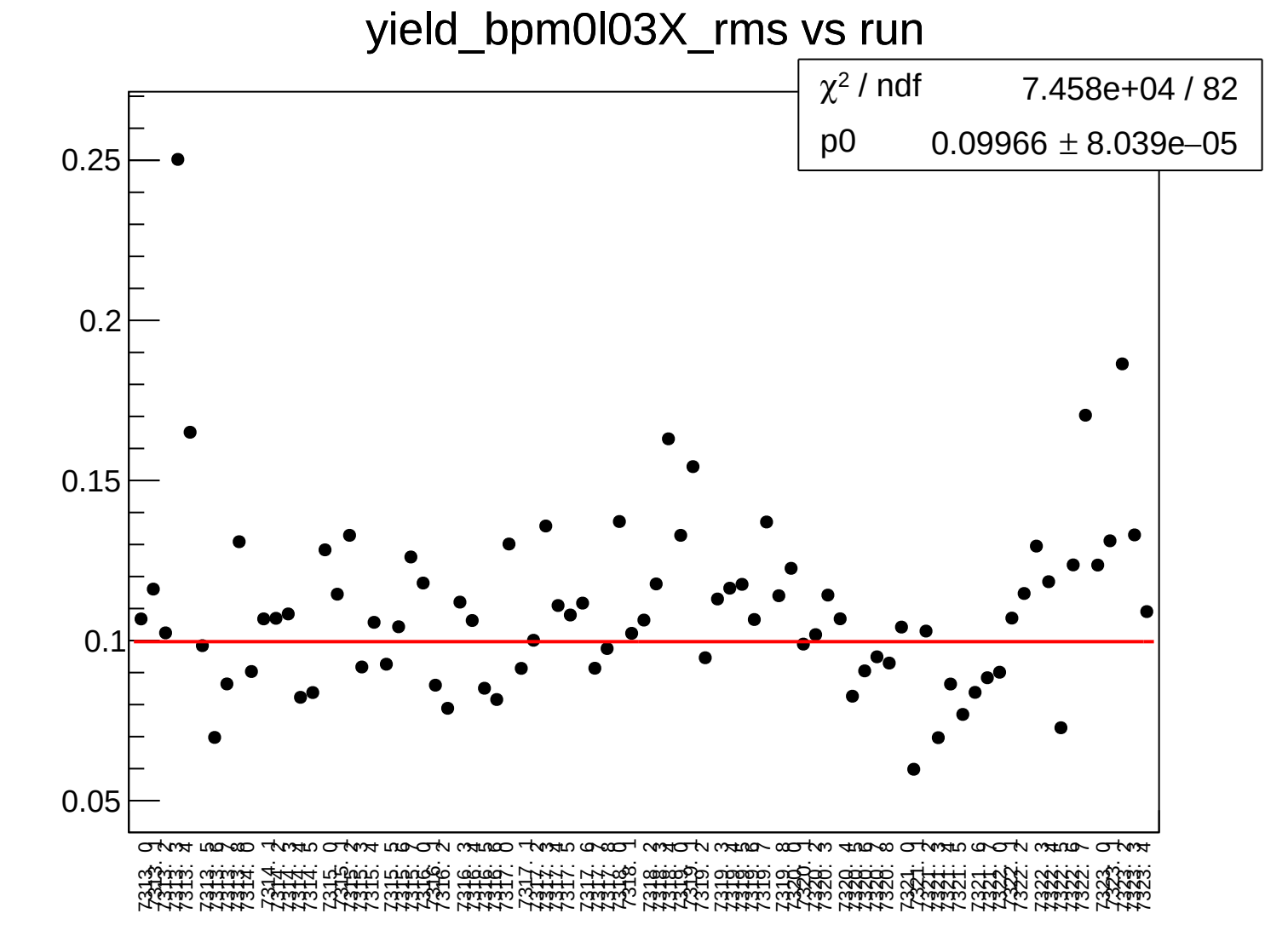

yield_bpm0l02Y_mean vs run
χ² / ndf 8.987e+05 / 82
p0 1.322 ± 8.155e−06
1.34
1.33
1.32
1.31
1.3
pull
Entries 83
Mean −1936
Std Dev 0
300
200
100
0
−100
−200
−300

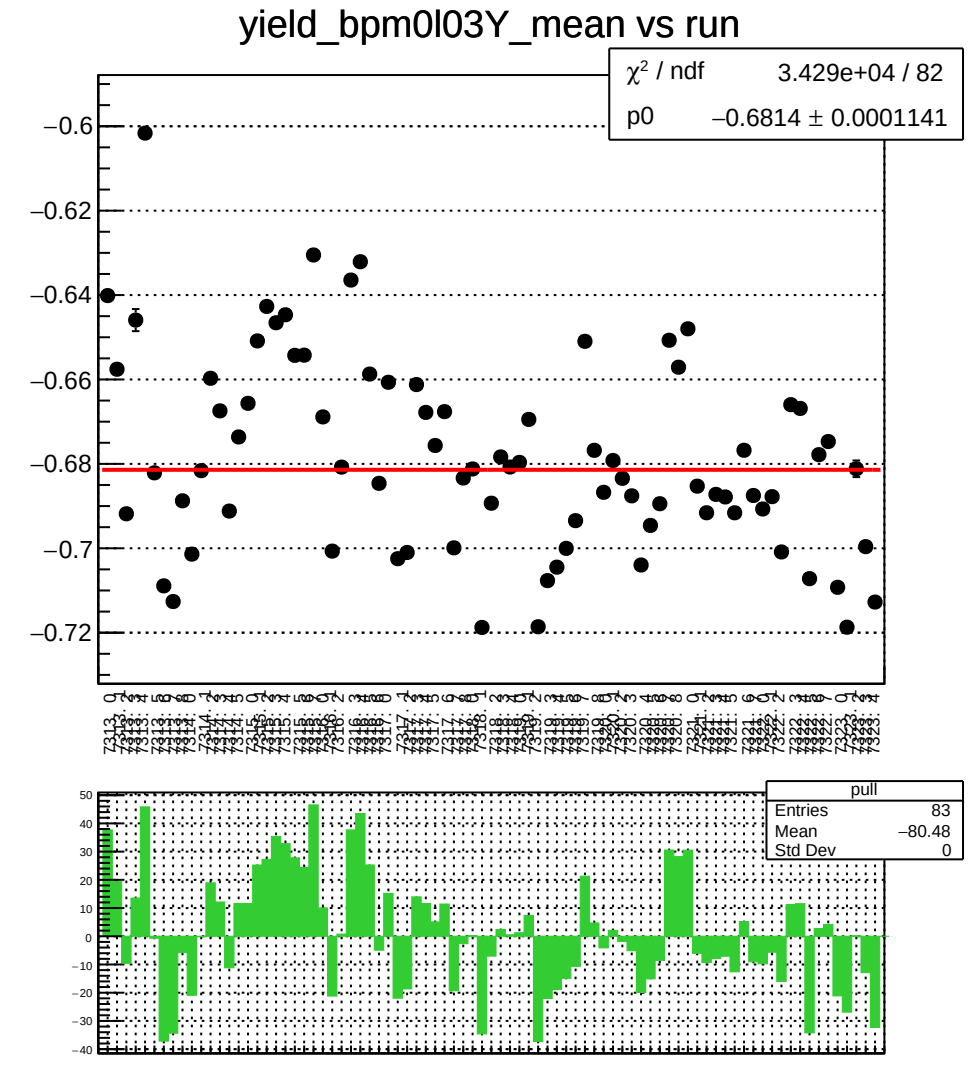

pull1D
Entries 83
Mean 1.066
Std Dev 4.177
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

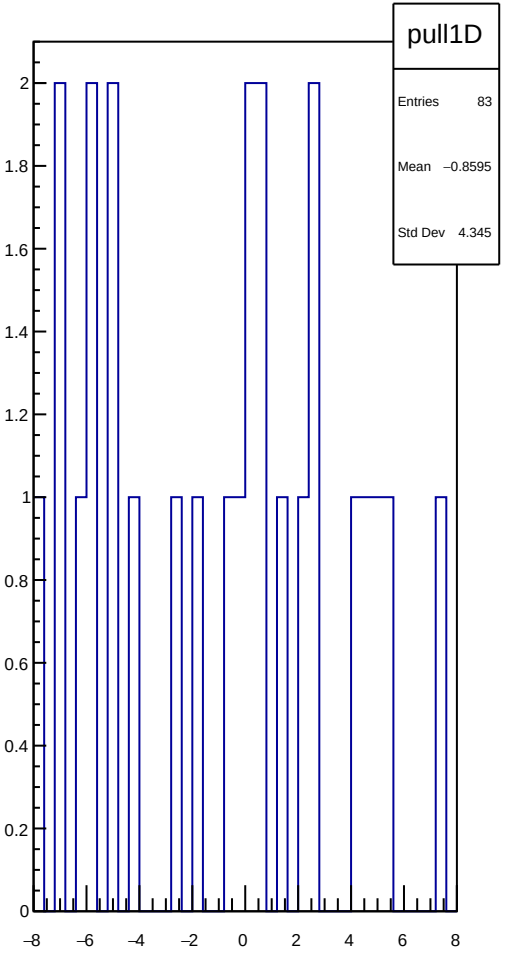

yield_bpm0l02Y_rms vs run
χ² / ndf 8476 / 82
p0 0.007301 ± 5.767e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

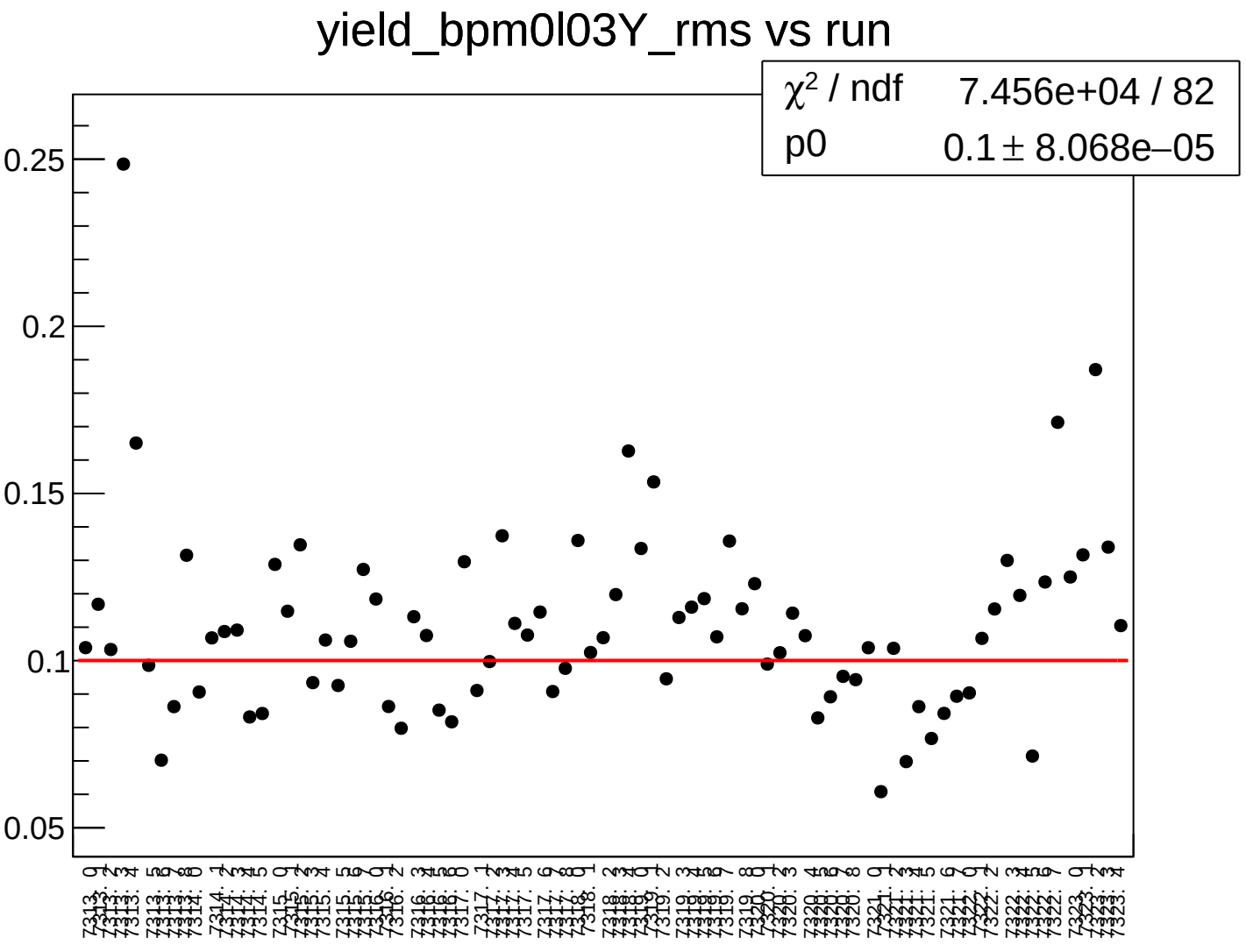

yield_bpm0l03X_mean vs run
χ² / ndf 3.428e+04 / 82
p0 −4.157 ± 0.0001137
−4.1
−4.12
−4.14
−4.16
−4.18
−4.2
pull
Entries 83
Mean 179
Std Dev 0
40
20
0
−20
−40
−60

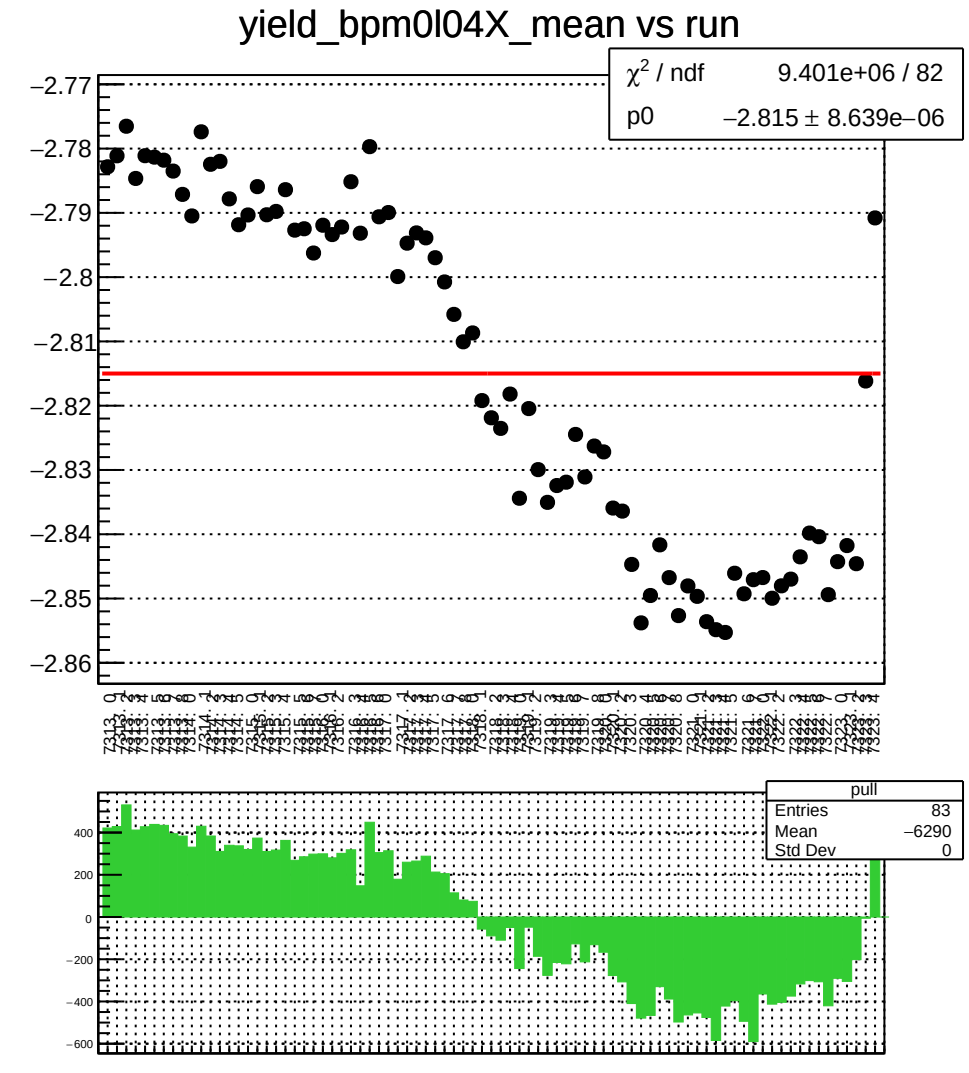

pull1D
Entries 83
Mean 1.738
Std Dev 5.004
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

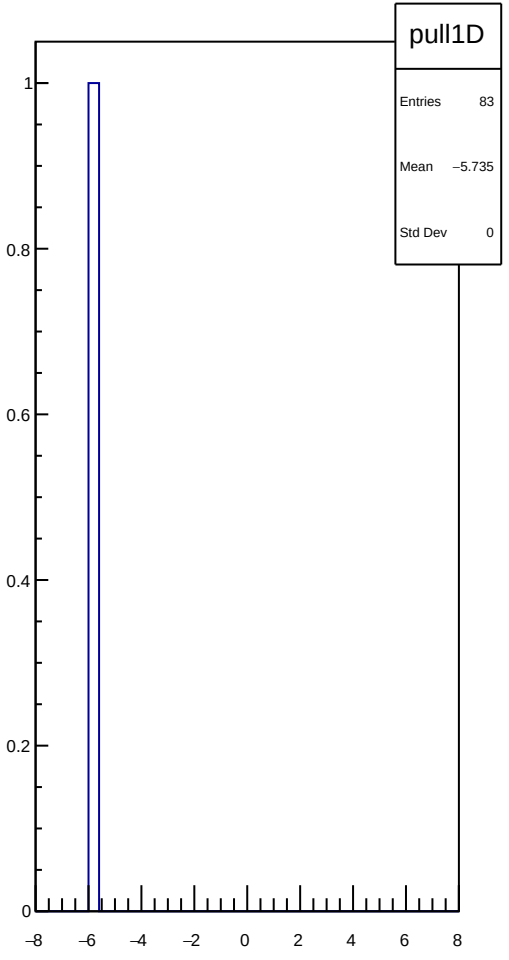

yield_bpm0l03X_rms vs run
χ² / ndf 7.458e+04 / 82
p0 0.09966 ± 8.039e–05
0.25
0.2
0.15
0.1
0.05

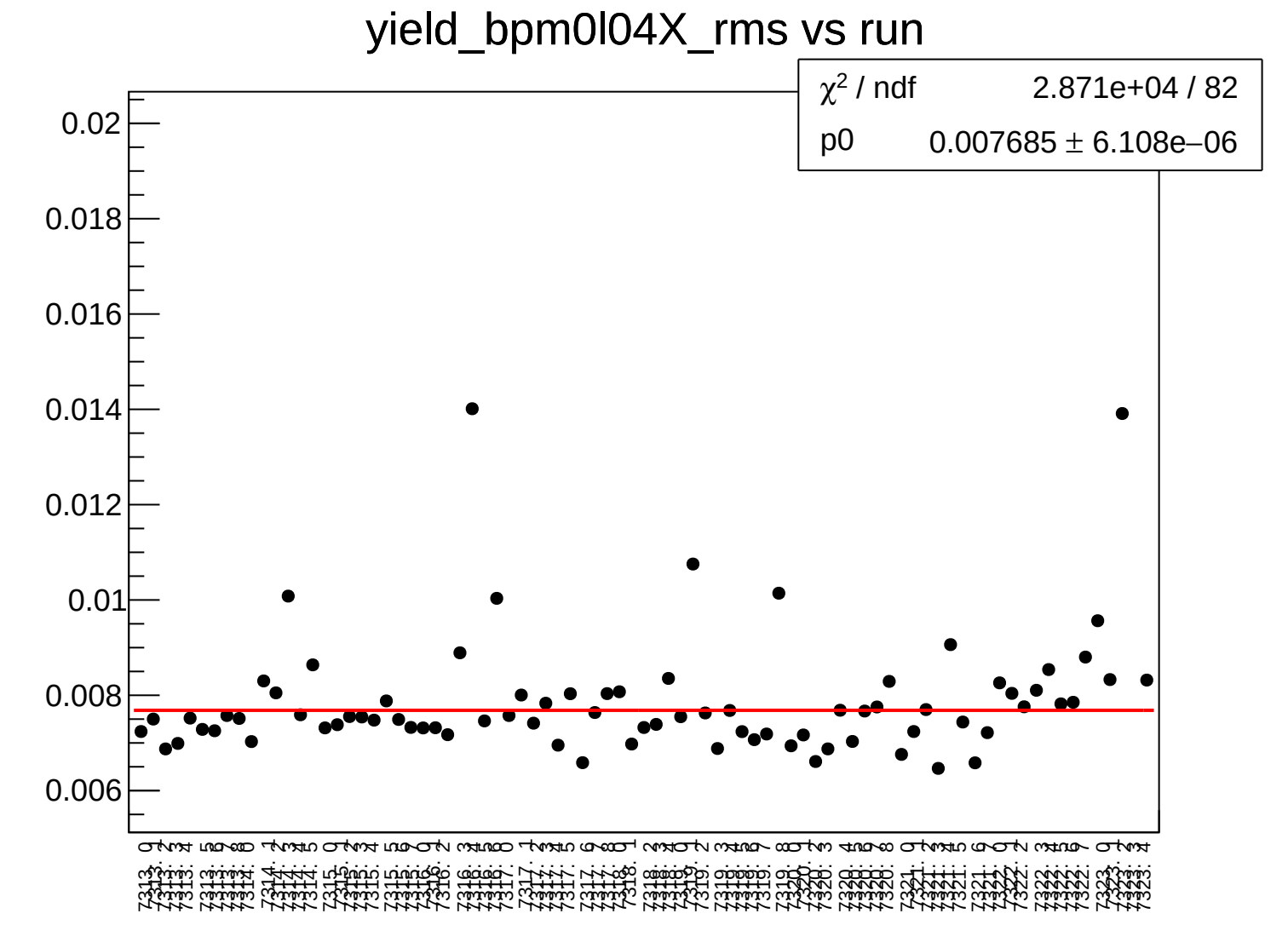

yield_bpm0l03Y_mean vs run
χ² / ndf 3.429e+04 / 82
p0 −0.6814 ± 0.0001141
pull
Entries 83
Mean −80.48
Std Dev 0

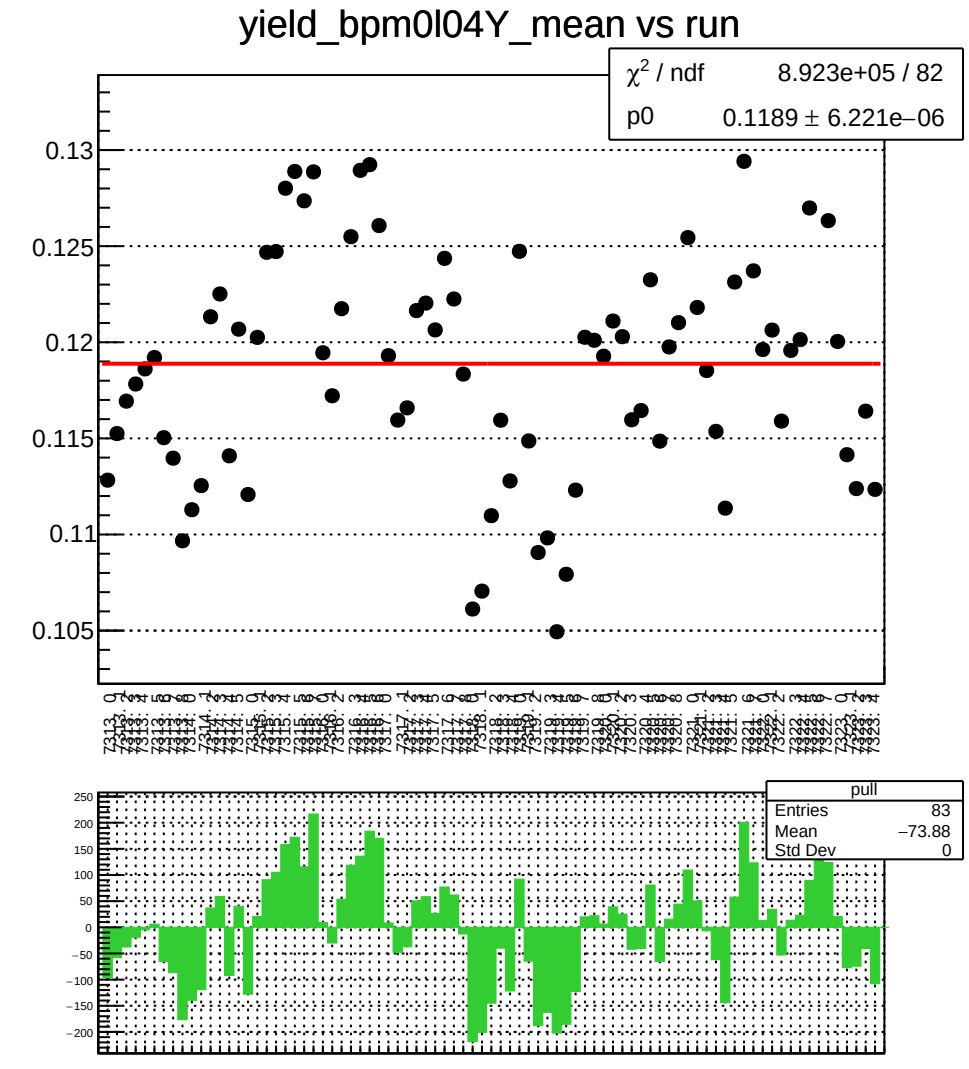

pull1D
Entries 83
Mean −0.8595
Std Dev 4.345

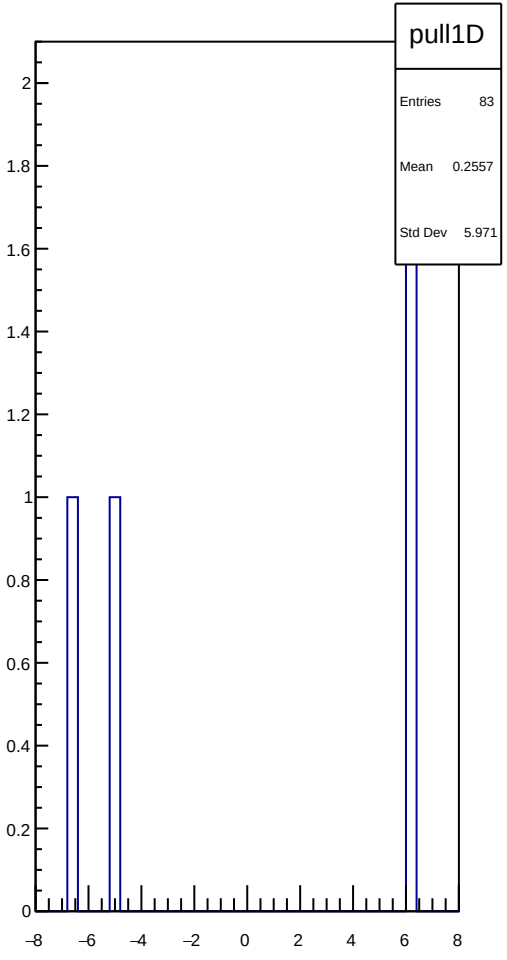

yield_bpm0l03Y_rms vs run
χ² / ndf 7.456e+04 / 82
p0 0.1 ± 8.068e–05
0.25
0.2
0.15
0.1
0.05

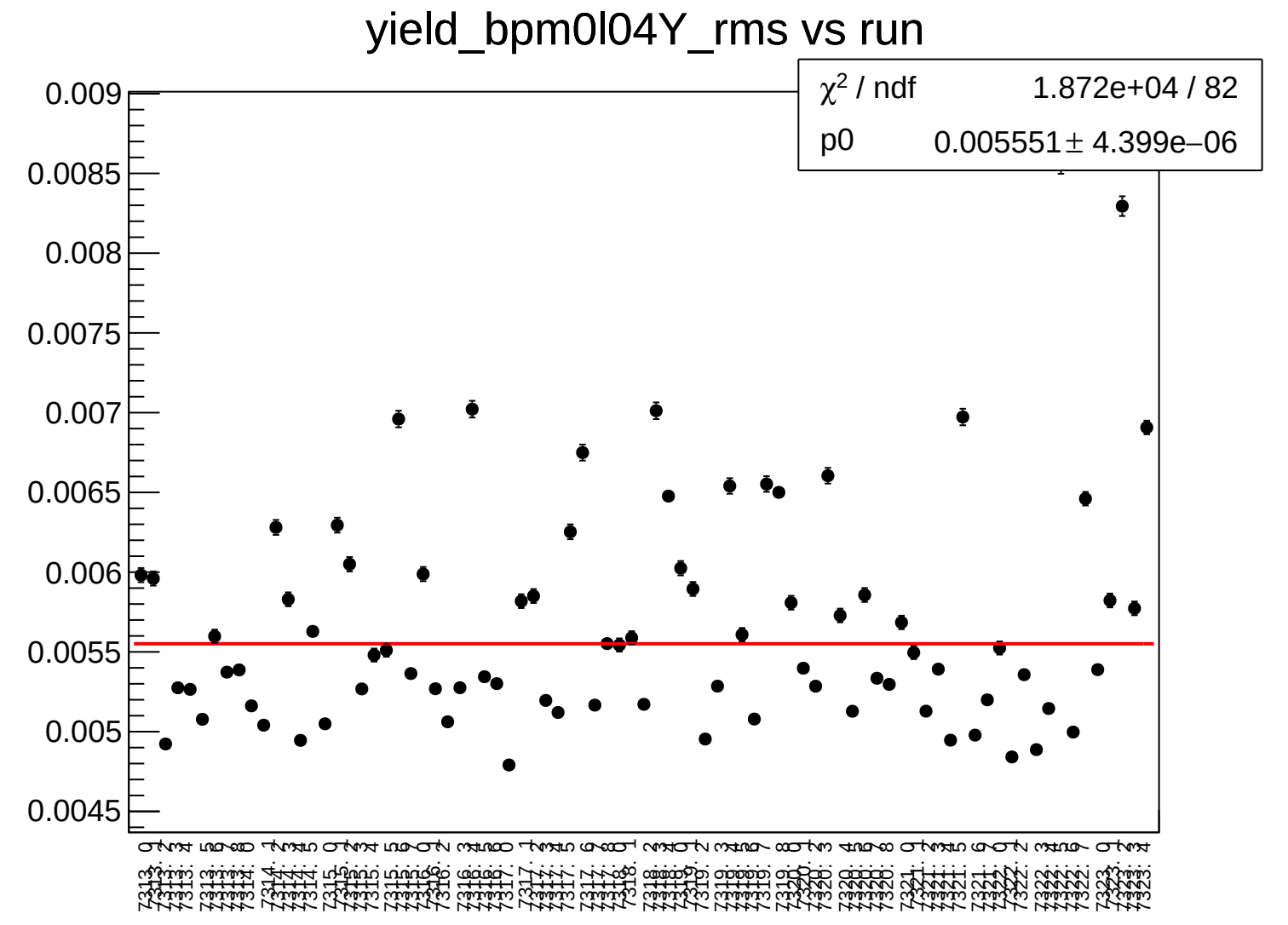

yield_bpm0l04X_mean vs run
χ² / ndf 9.401e+06 / 82
p0 −2.815 ± 8.639e−06
−2.77
−2.78
−2.79
−2.8
−2.81
−2.82
−2.83
−2.84
−2.85
−2.86
pull
Entries 83
Mean −6290
Std Dev 0
400
200
0
−200
−400
−600

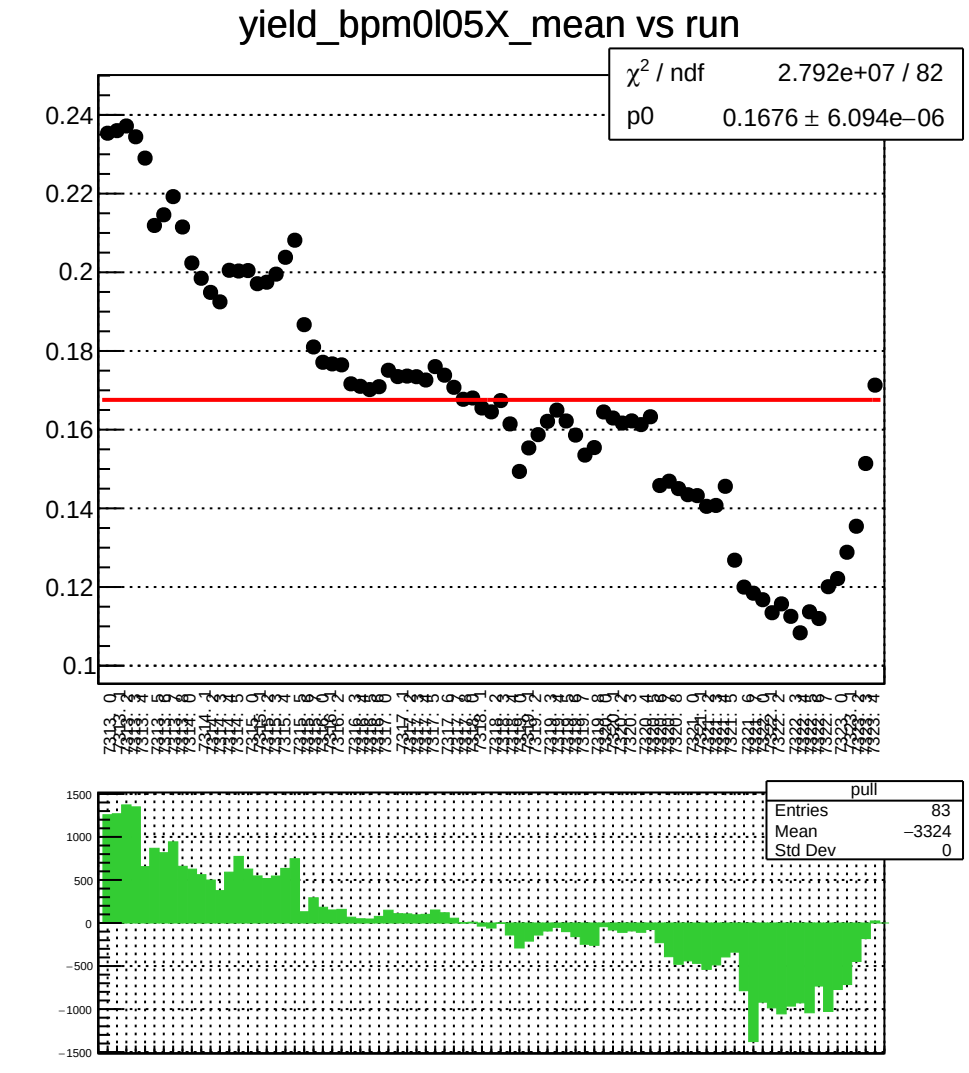

pull1D
Entries 83
Mean −5.735
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

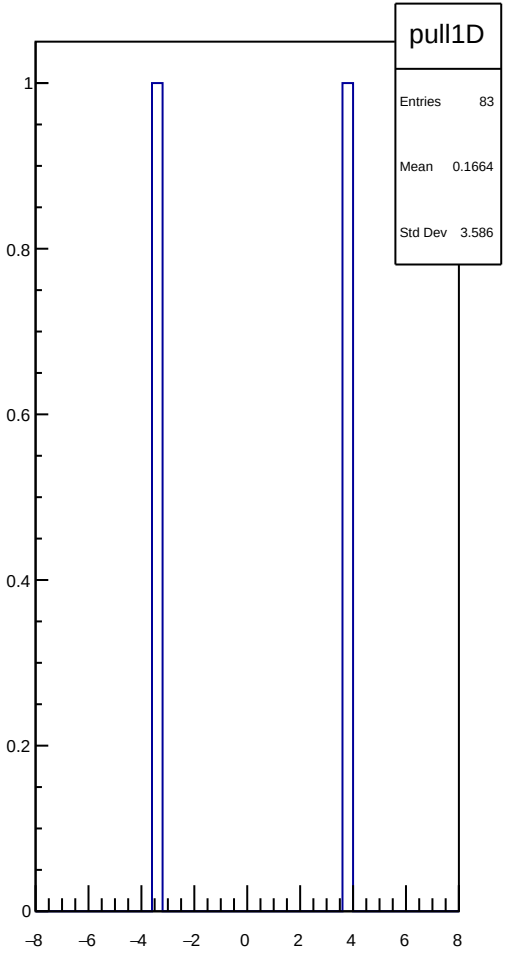

yield_bpm0l04X_rms vs run
χ² / ndf 2.871e+04 / 82
p0 0.007685 ± 6.108e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

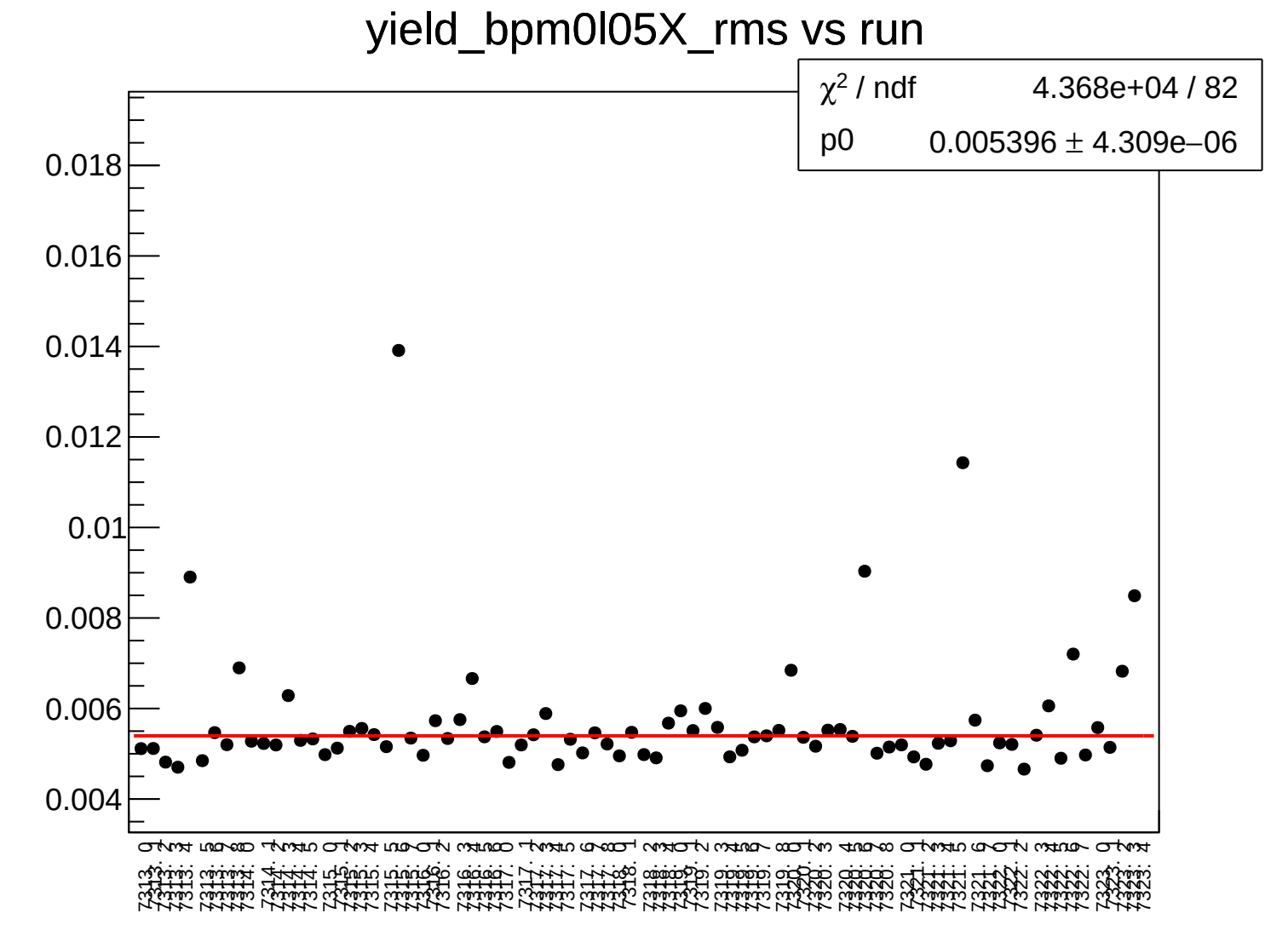

yield_bpm0l04Y_mean vs run
χ² / ndf 8.923e+05 / 82
p0 0.1189 ± 6.221e−06
0.13
0.125
0.12
0.115
0.11
0.105
pull
Entries 83
Mean −73.88
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

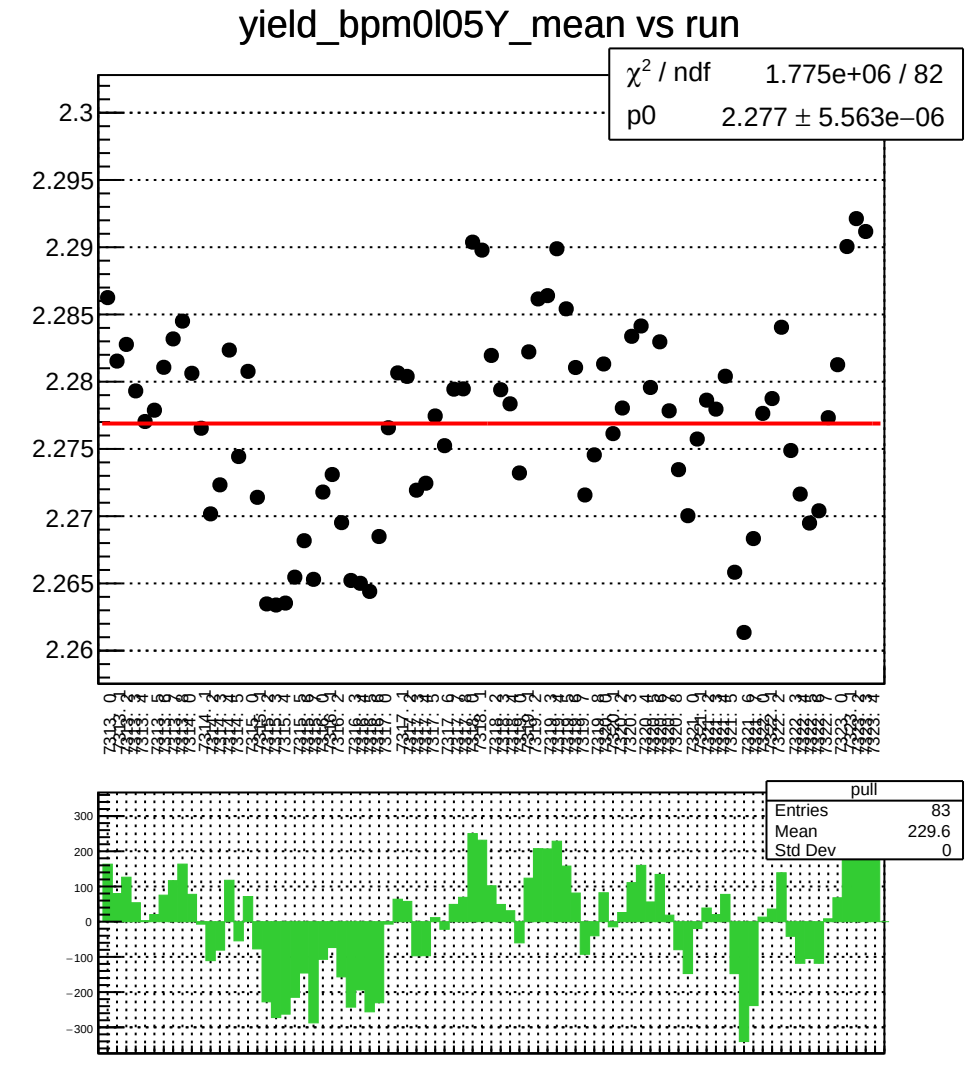

pull1D
Entries 83
Mean 0.2557
Std Dev 5.971
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

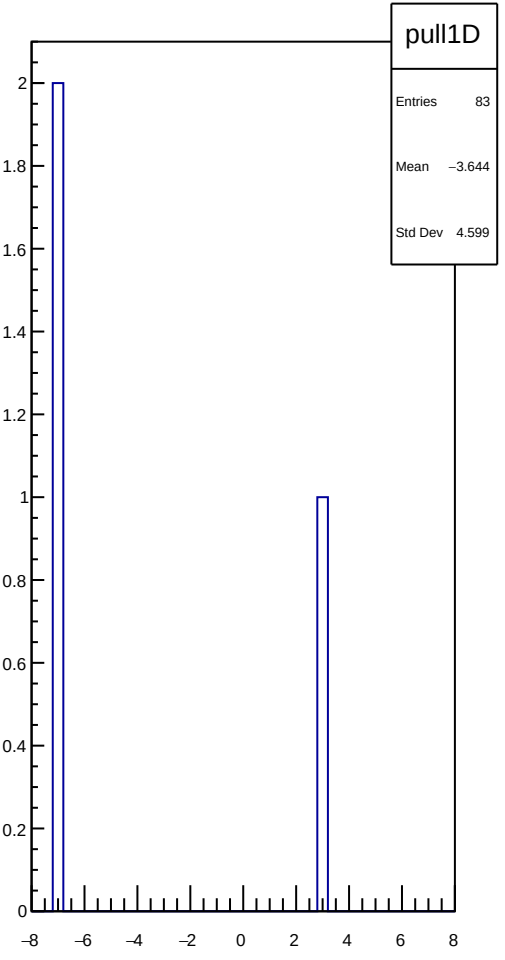

yield_bpm0l04Y_rms vs run
χ² / ndf 1.872e+04 / 82
p0 0.005551 ± 4.399e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

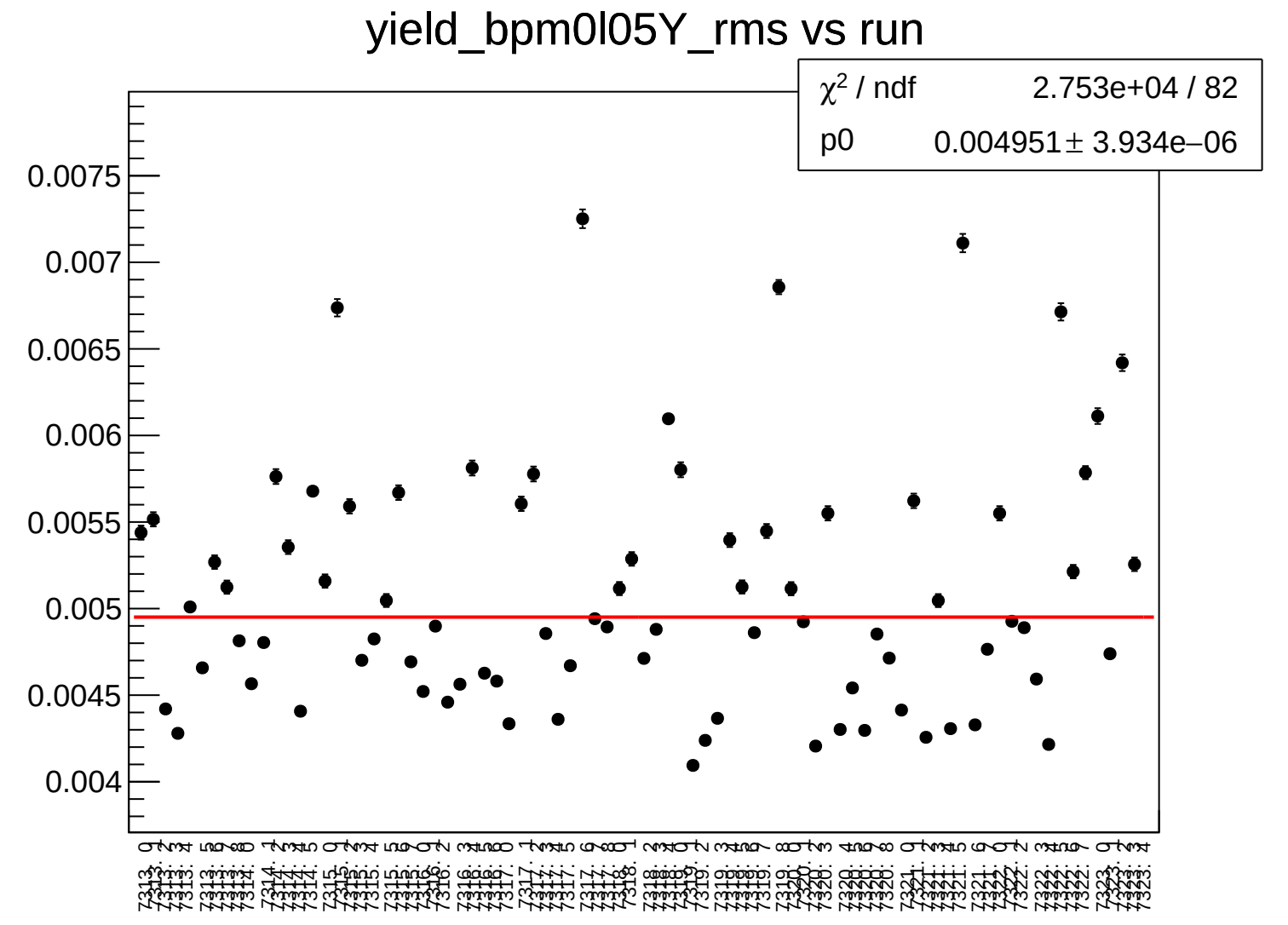

yield_bpm0l05X_mean vs run
χ² / ndf 2.792e+07 / 82
p0 0.1676 ± 6.094e−06
pull
Entries 83
Mean −3324
Std Dev 0

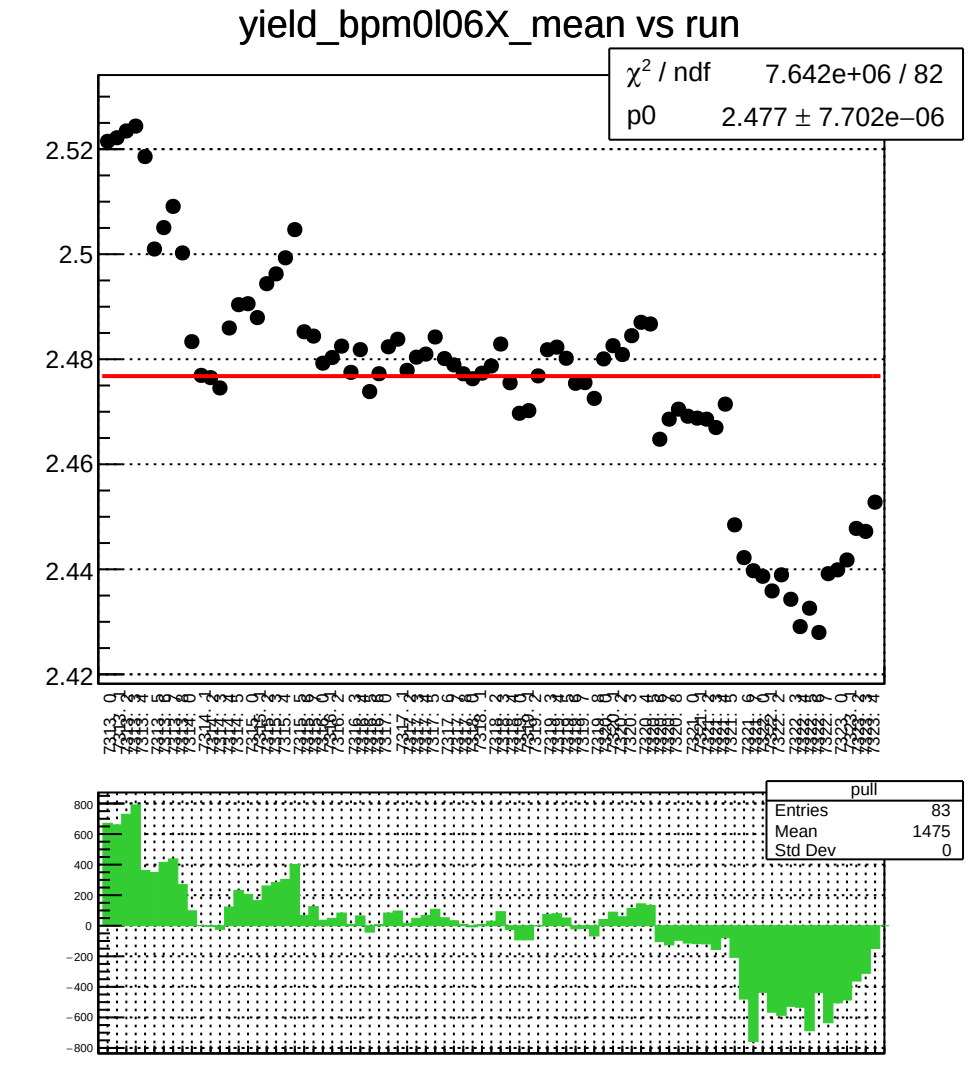

pull1D
Entries 83
Mean 0.1664
Std Dev 3.586

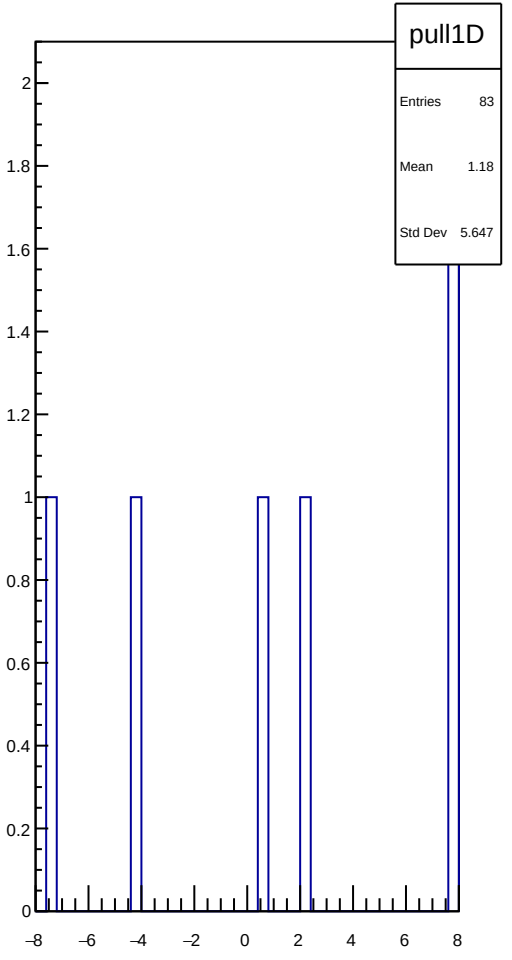

yield_bpm0l05X_rms vs run
χ^2 / ndf 4.368e+04 / 82
p0 0.005396 ± 4.309e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

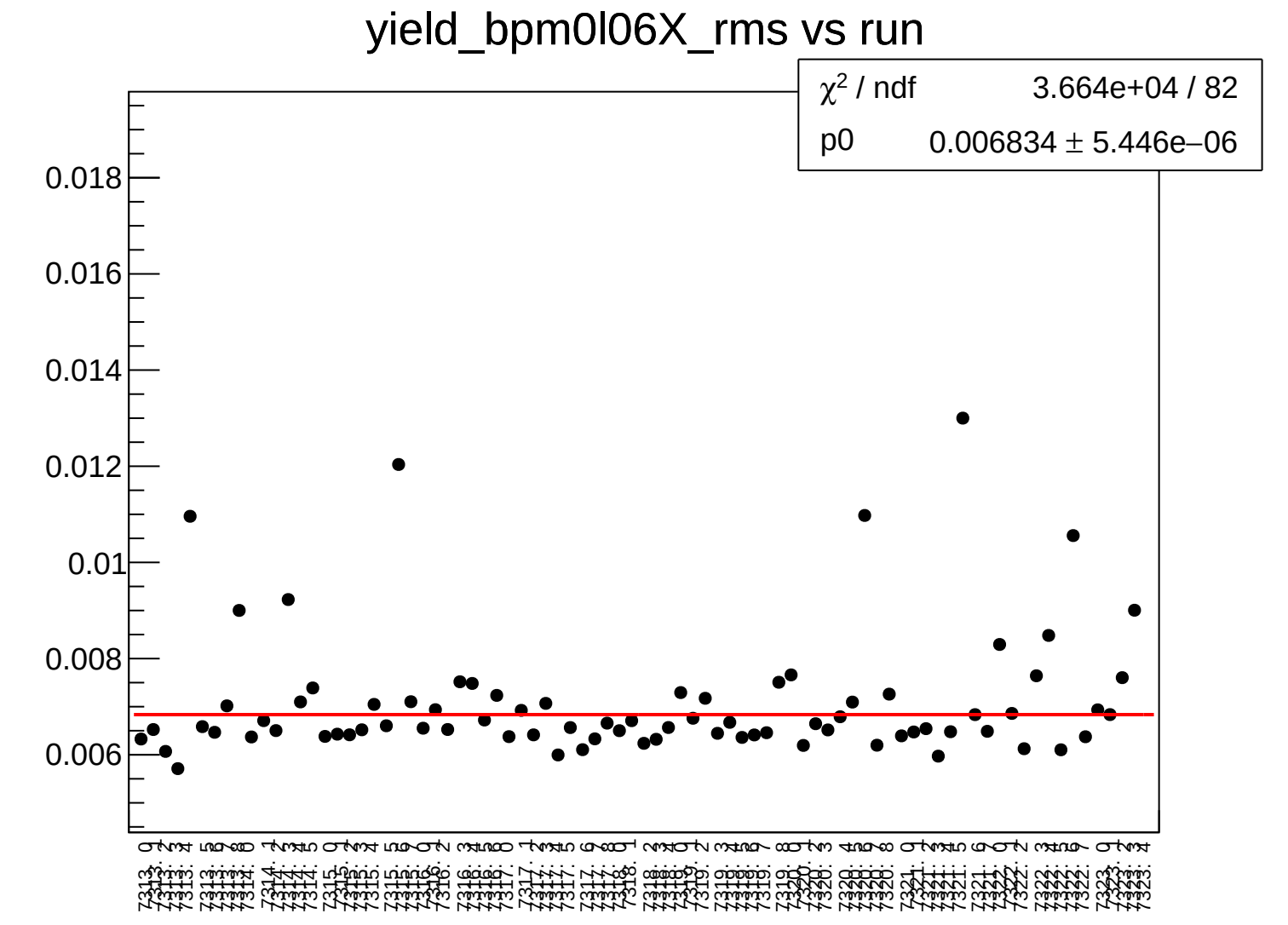

yield_bpm0l05Y_mean vs run
χ² / ndf 1.775e+06 / 82
p0 2.277 ± 5.563e−06
pull
Entries 83
Mean 229.6
Std Dev 0

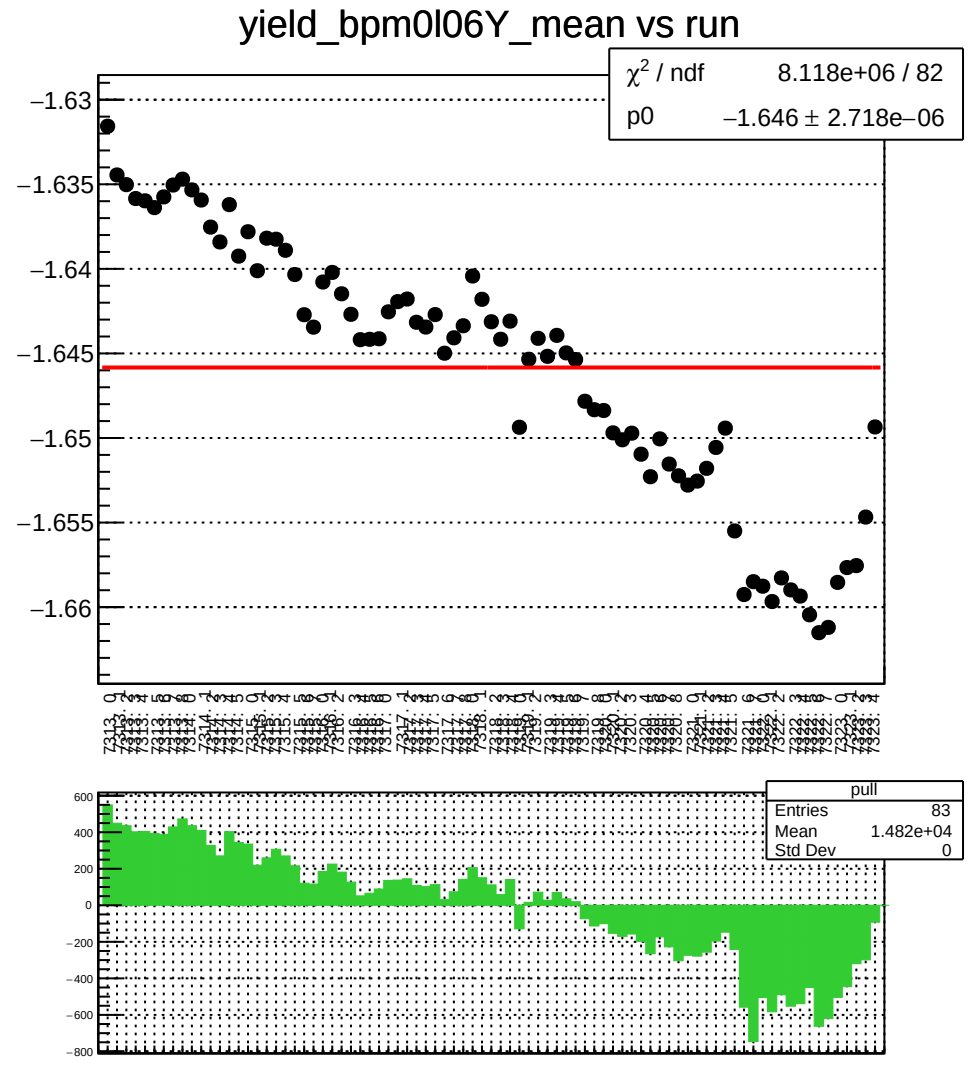

pull1D
Entries 83
Mean −3.644
Std Dev 4.599

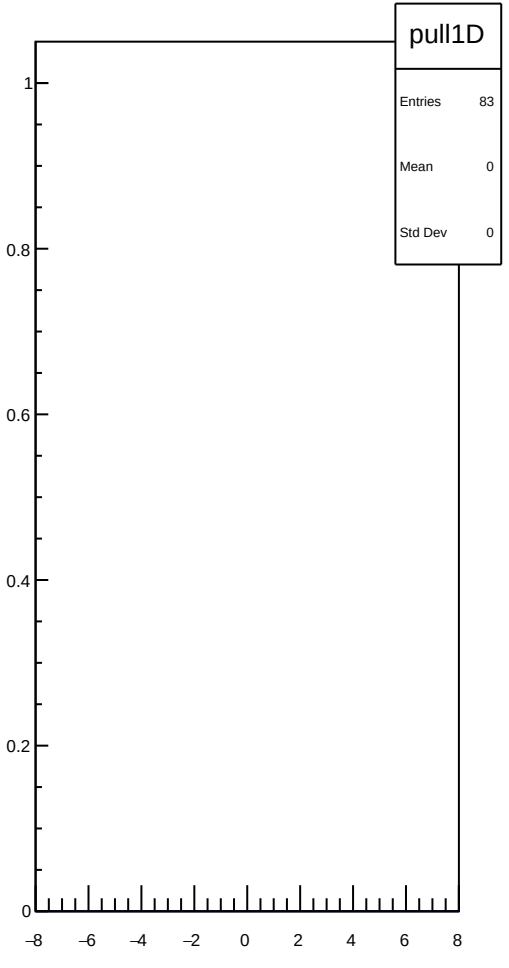

yield_bpm0l05Y_rms vs run
χ² / ndf 2.753e+04 / 82
p0 0.004951 ± 3.934e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

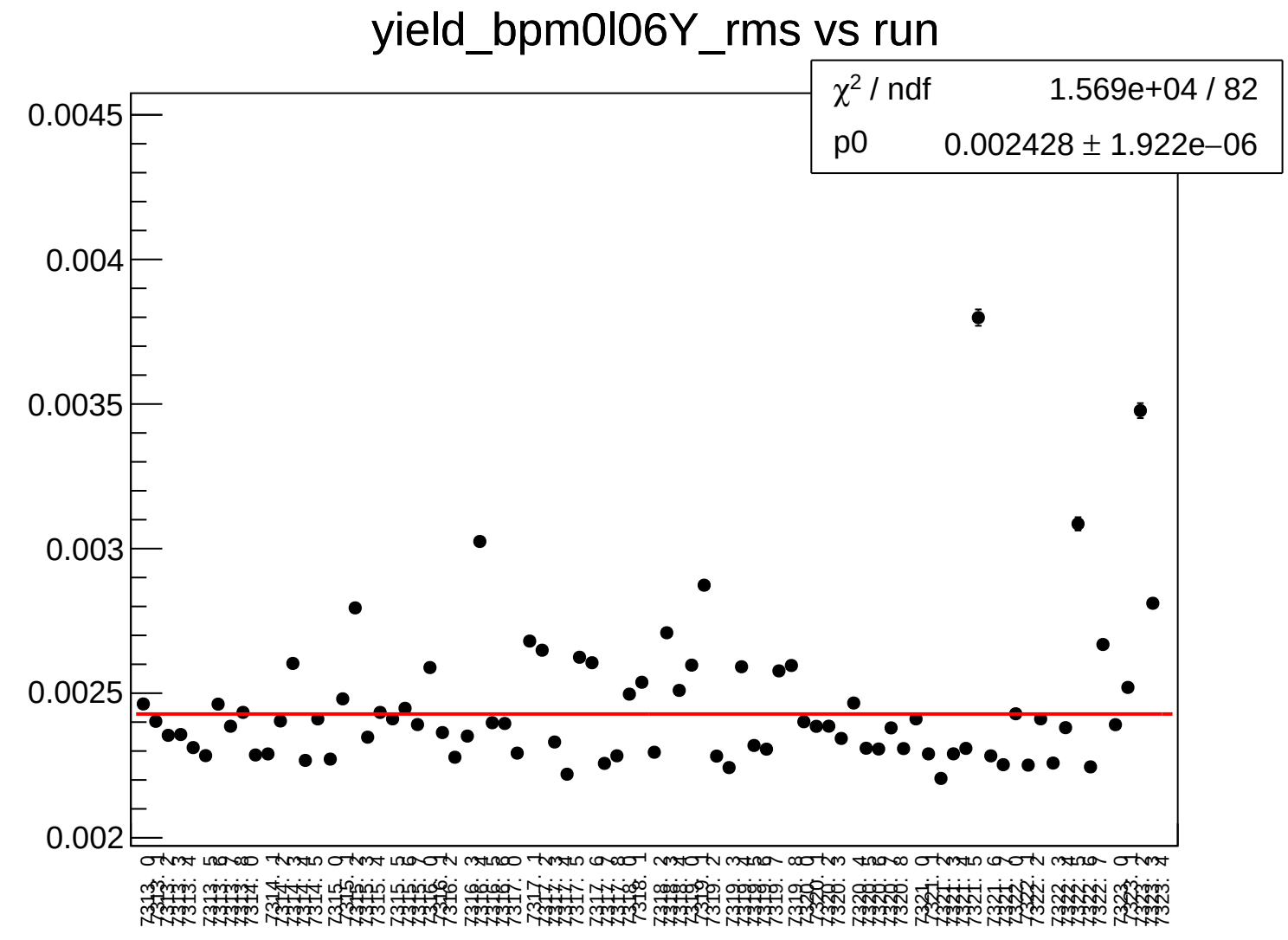

yield_bpm0l06X_mean vs run
χ² / ndf 7.642e+06 / 82
p0 2.477 ± 7.702e−06
2.52
2.5
2.48
2.46
2.44
2.42
pull
Entries 83
Mean 1475
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

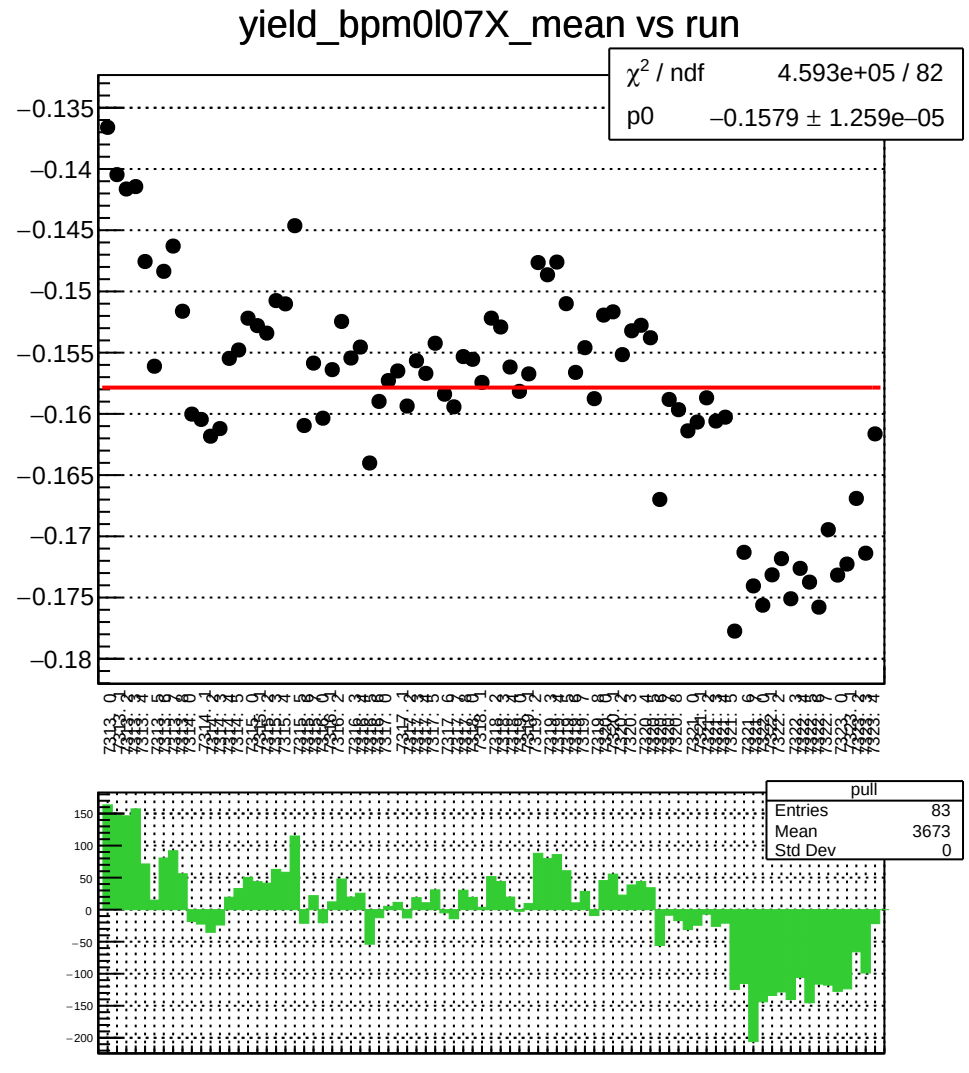

pull1D
Entries 83
Mean 1.18
Std Dev 5.647
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

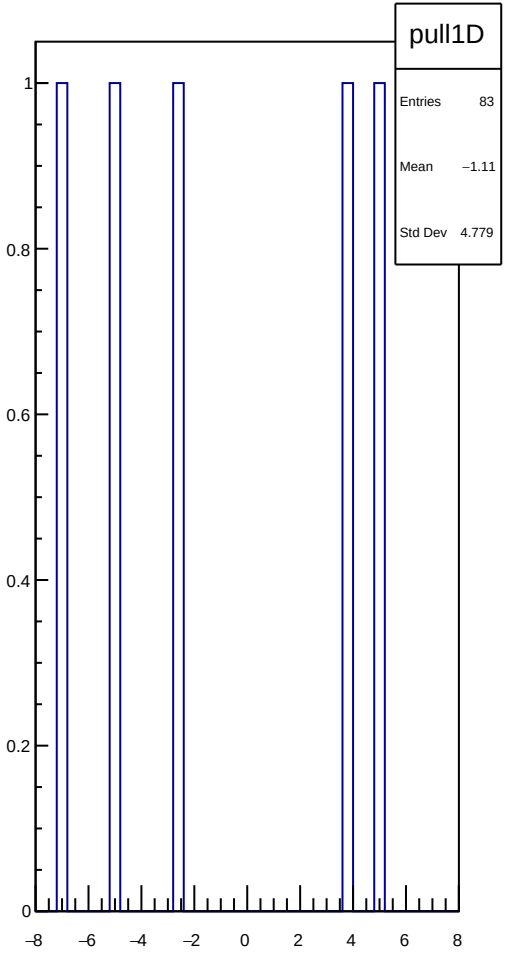

yield_bpm0l06X_rms vs run
χ² / ndf 3.664e+04 / 82
p0 0.006834 ± 5.446e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

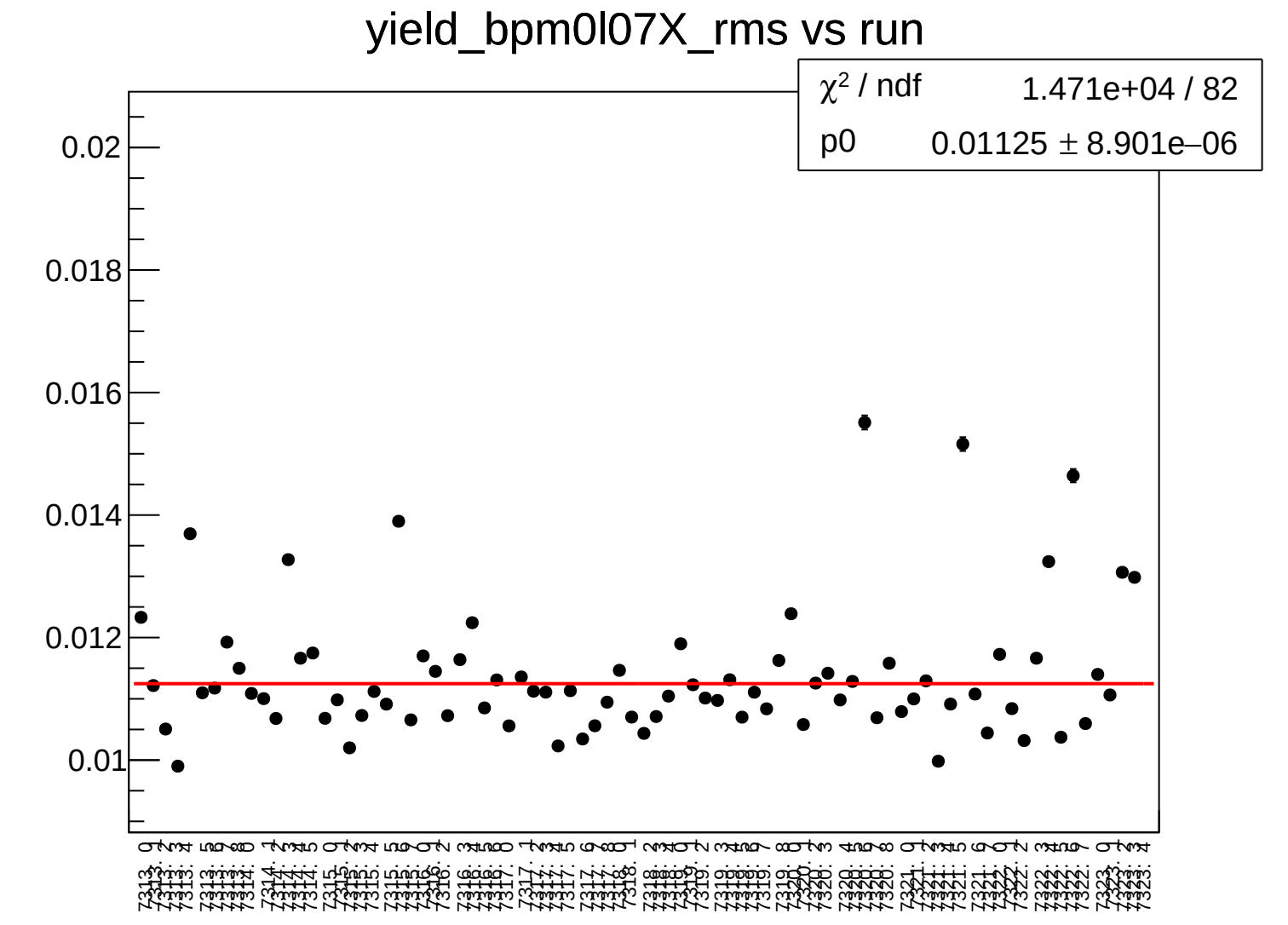

yield_bpm0l06Y_mean vs run
χ² / ndf 8.118e+06 / 82
p0 −1.646 ± 2.718e−06
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
−1.66
pull
Entries 83
Mean 1.482e+04
Std Dev 0
600
400
200
0
−200
−400
−600
−800

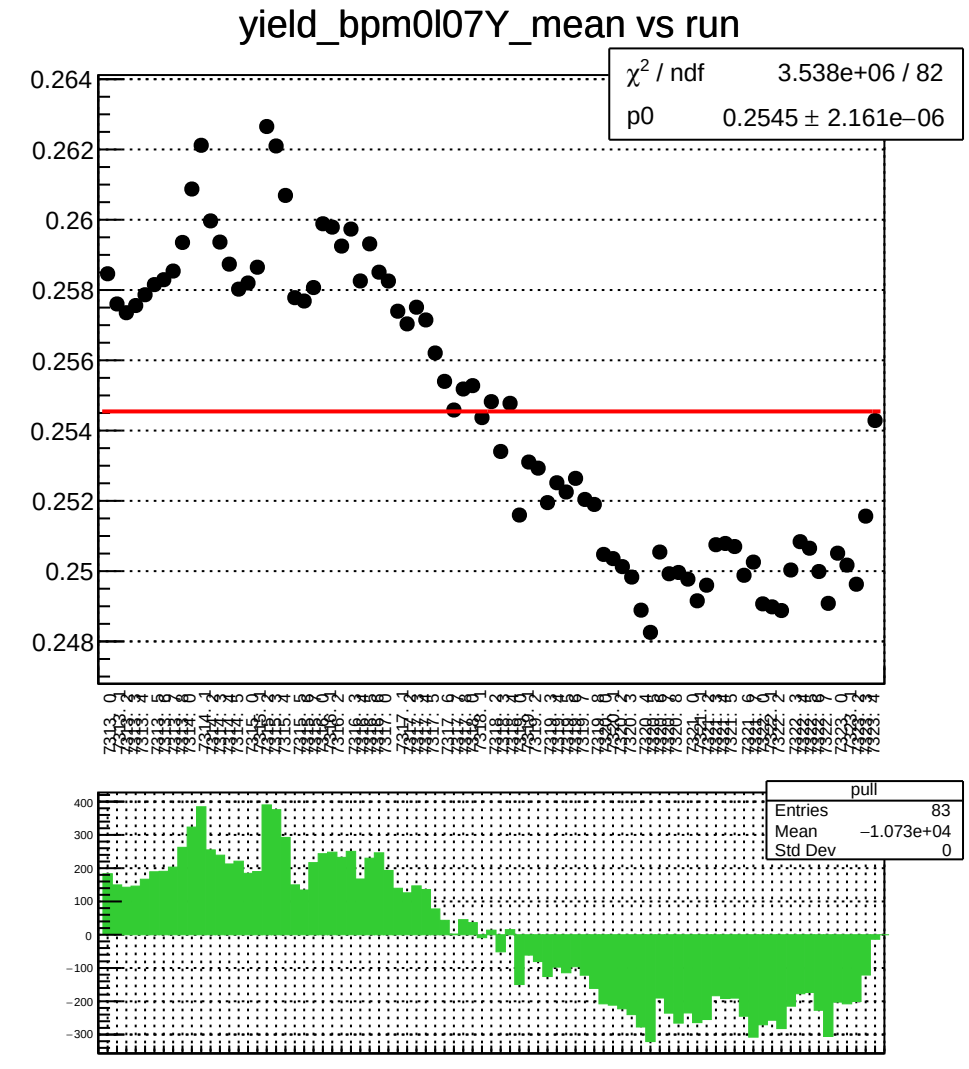

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

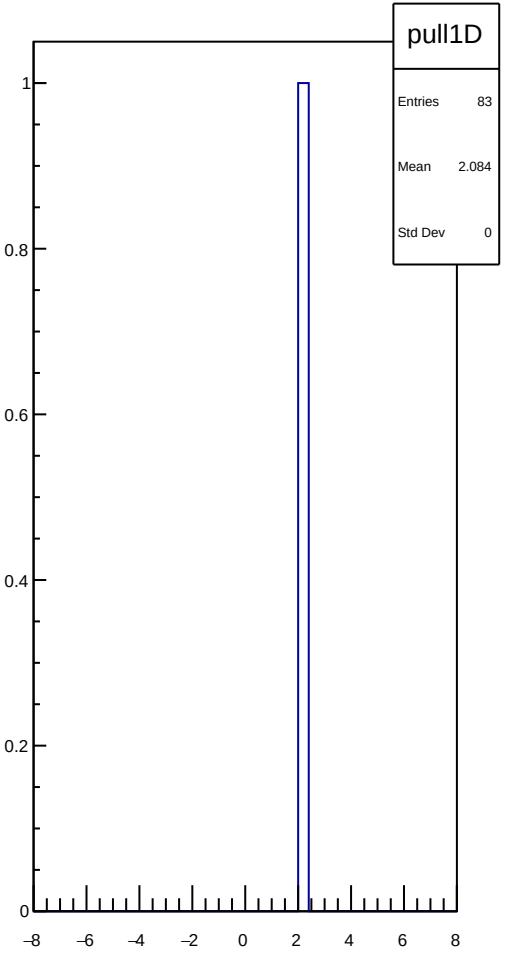

yield_bpm0l06Y_rms vs run
χ² / ndf 1.569e+04 / 82
p0 0.002428 ± 1.922e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

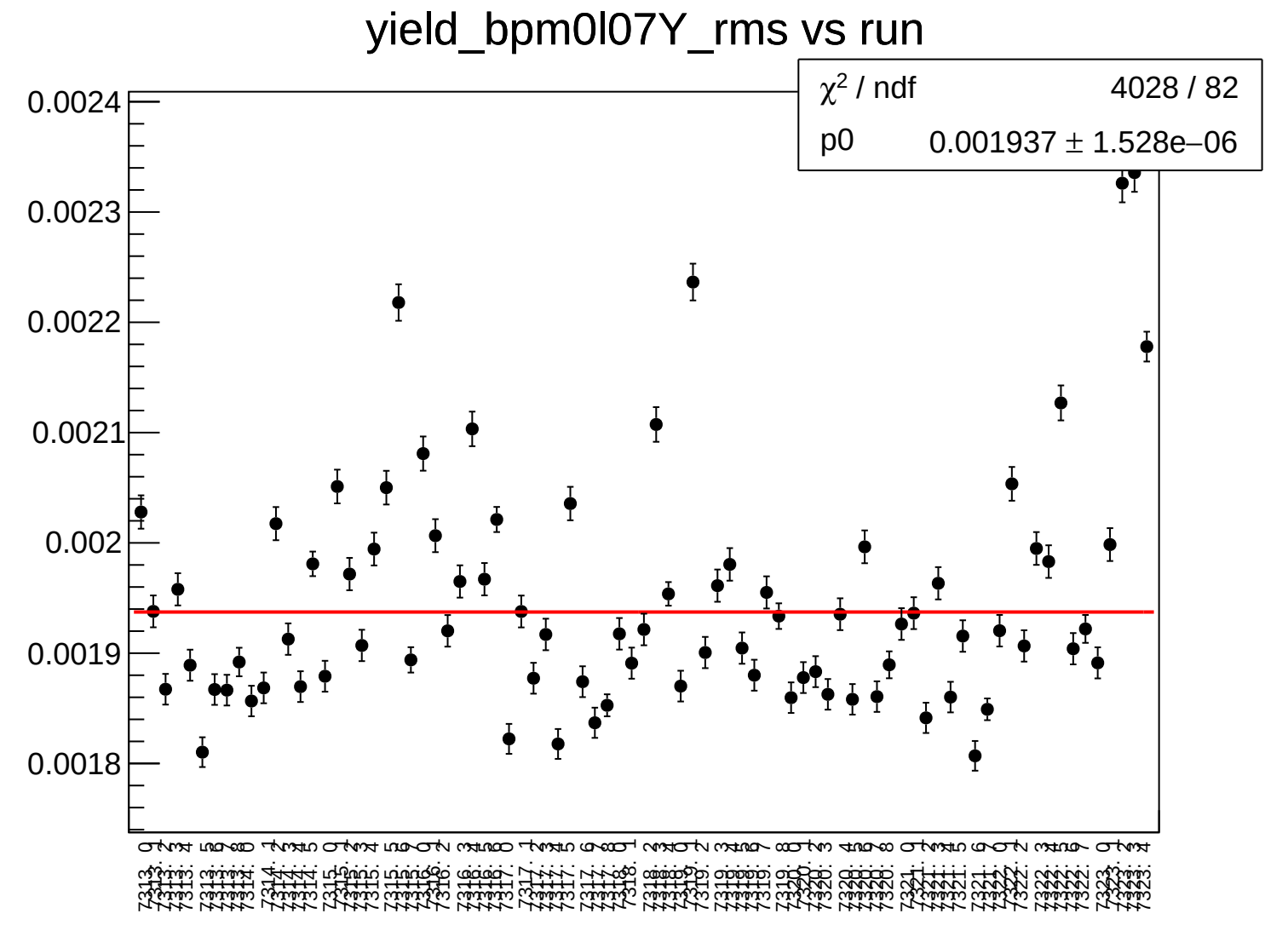

yield_bpm0l07X_mean vs run
χ² / ndf 4.593e+05 / 82
p0 −0.1579 ± 1.259e−05
pull
Entries 83
Mean 3673
Std Dev 0

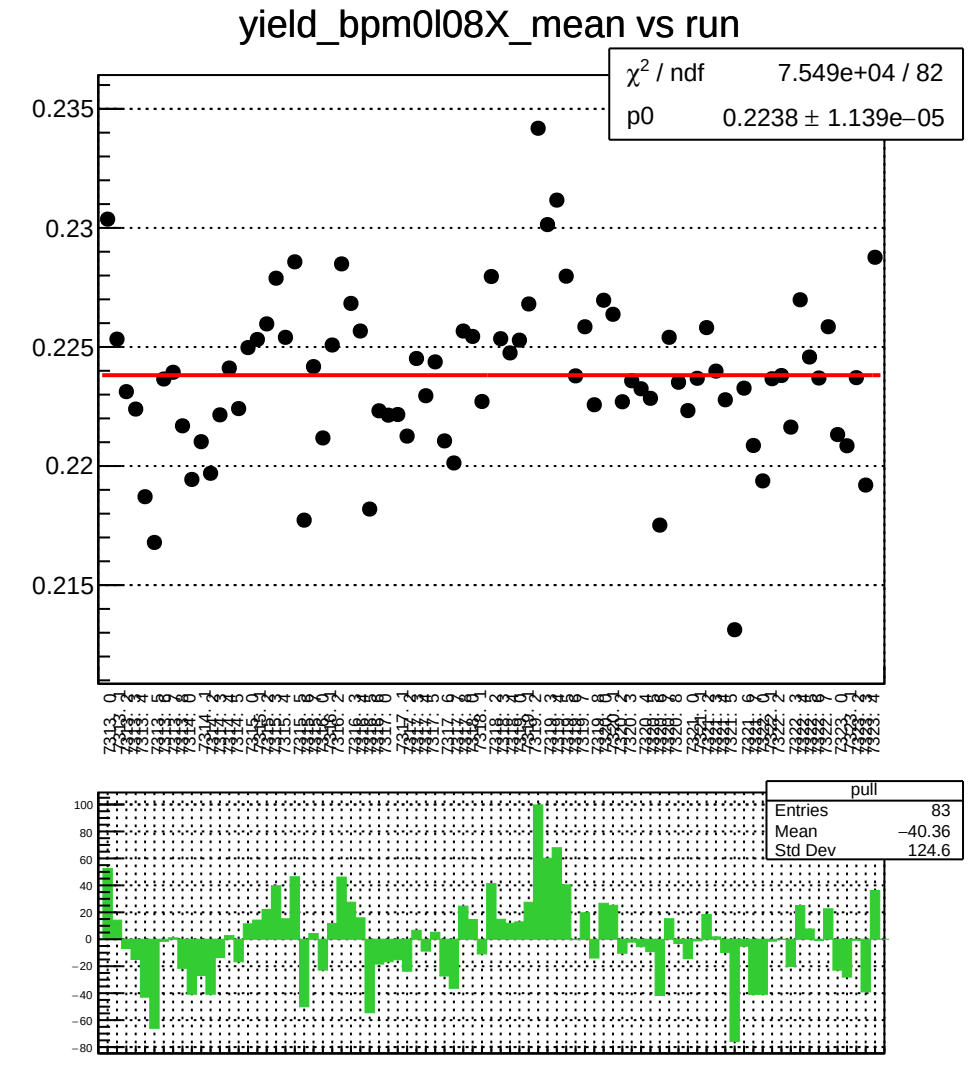

pull1D
Entries 83
Mean −1.11
Std Dev 4.779

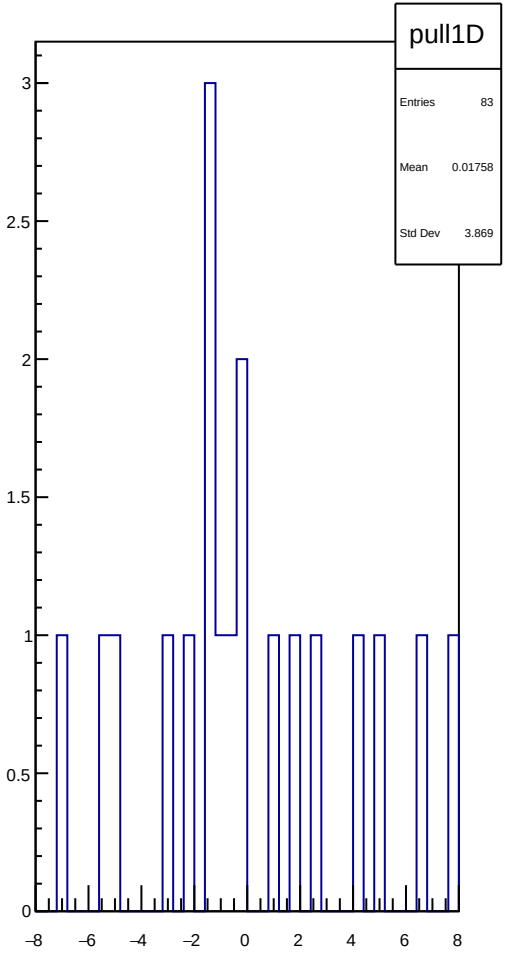

yield_bpm0l07X_rms vs run
χ² / ndf 1.471e+04 / 82
p0 0.01125 ± 8.901e–06
0.02
0.018
0.016
0.014
0.012
0.01

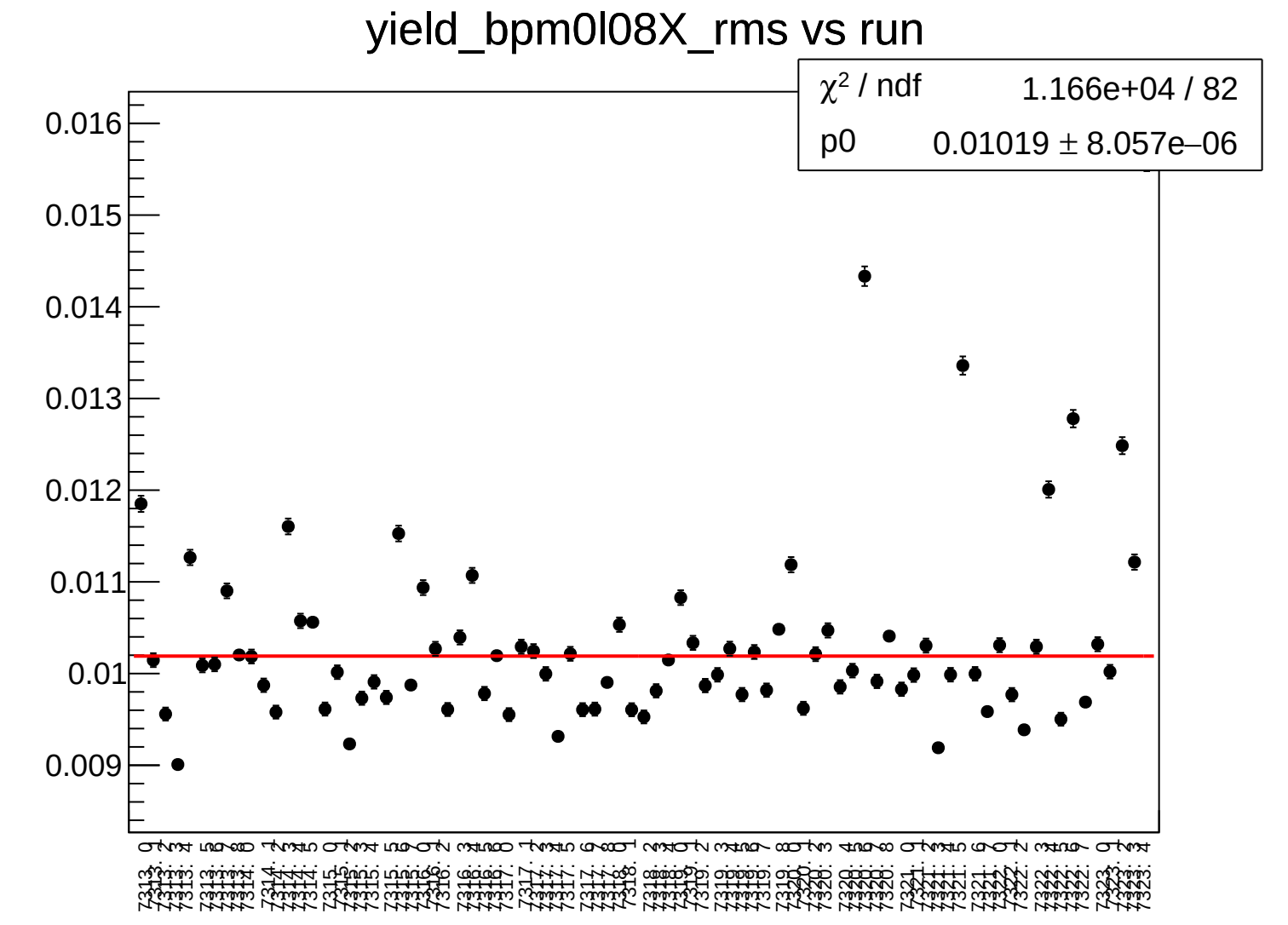

yield_bpm0l07Y_mean vs run
χ² / ndf 3.538e+06 / 82
p0 0.2545 ± 2.161e−06
0.264
0.262
0.26
0.258
0.256
0.254
0.252
0.25
0.248
pull
Entries 83
Mean −1.073e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

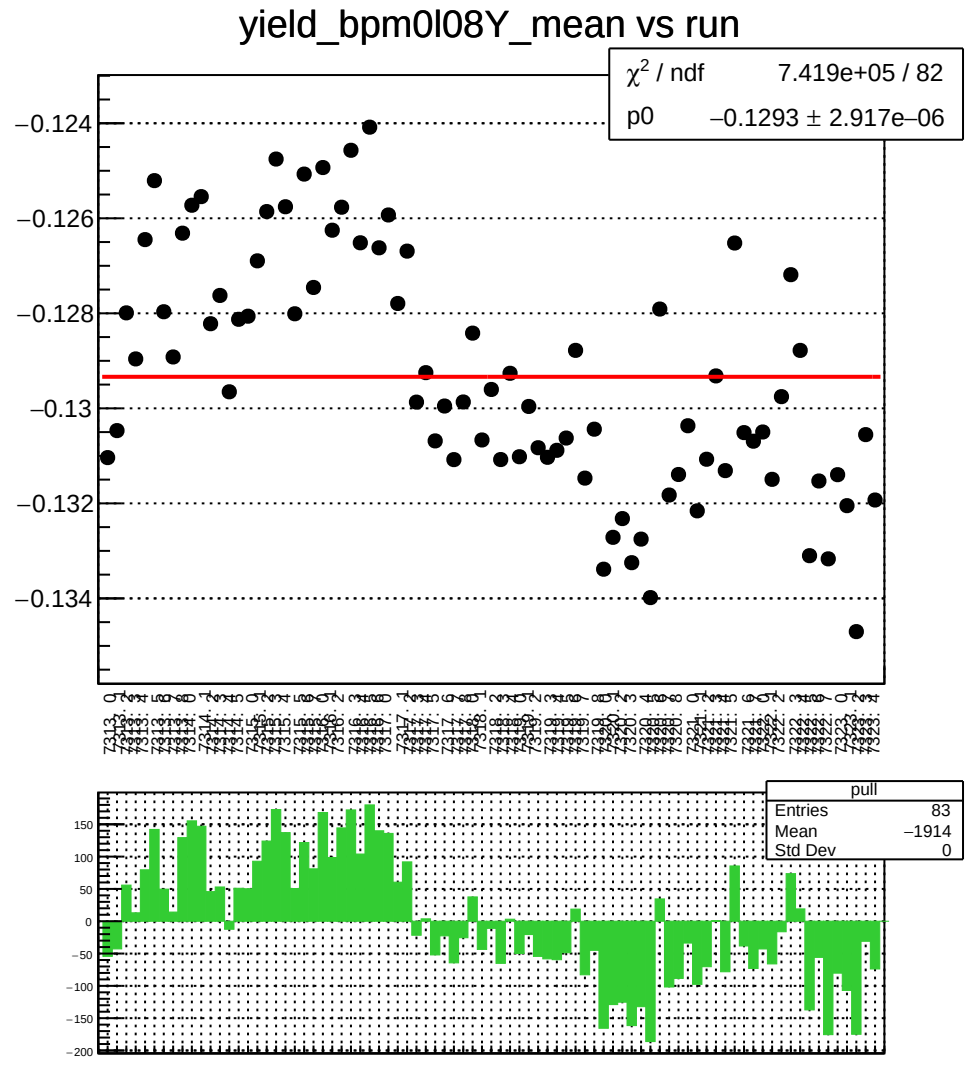

pull1D
Entries 83
Mean 2.084
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

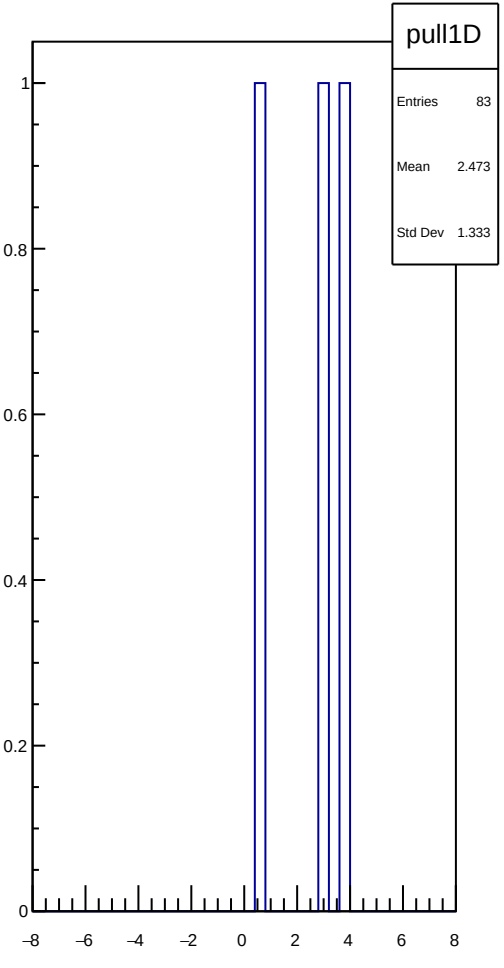

yield_bpm0l07Y_rms vs run
χ² / ndf 4028 / 82
p0 0.001937 ± 1.528e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

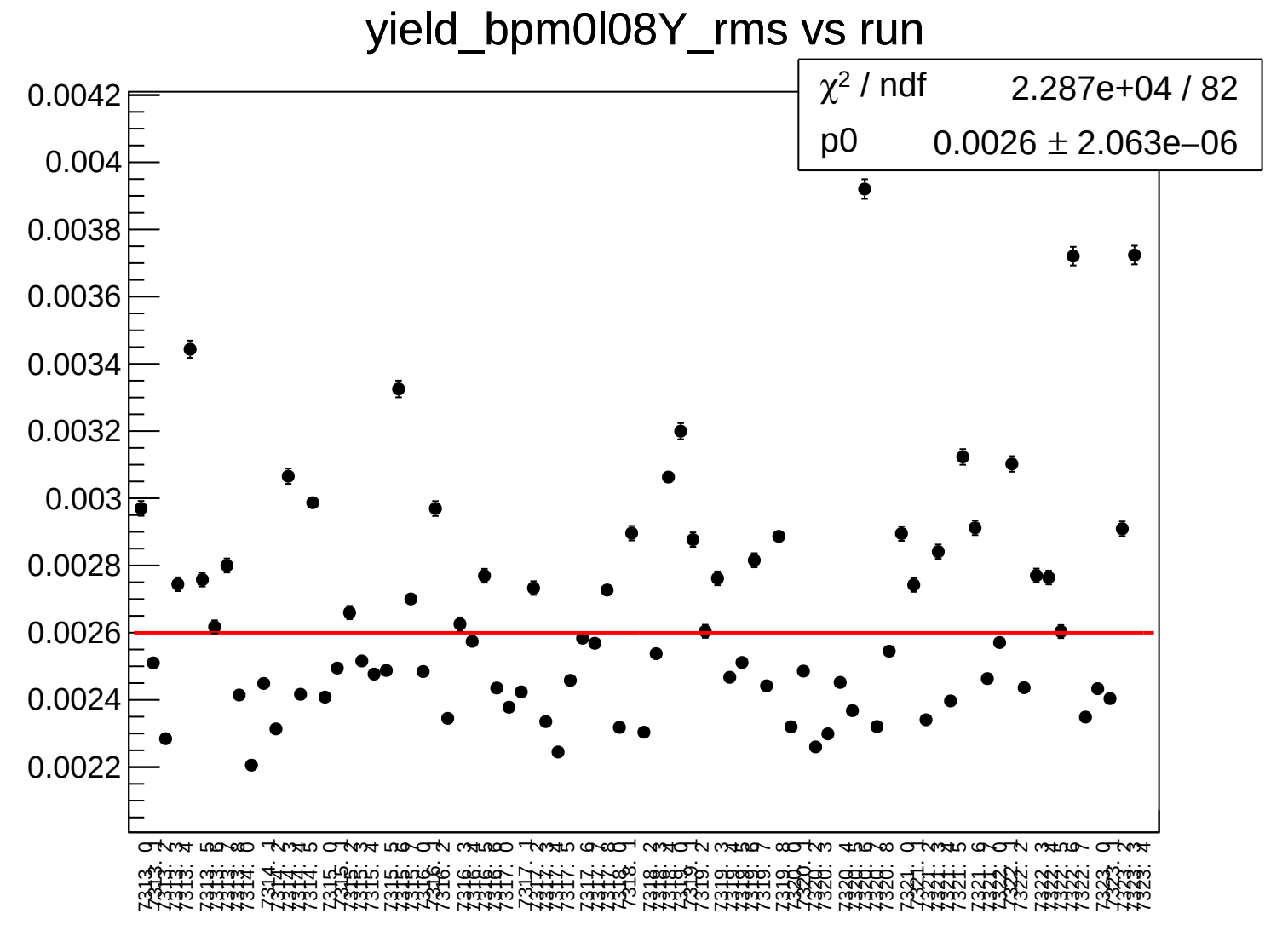

yield_bpm0l08X_mean vs run
χ² / ndf 7.549e+04 / 82
p0 0.2238 ± 1.139e−05
0.235
0.23
0.225
0.22
0.215
pull
Entries 83
Mean −40.36
Std Dev 124.6
100
80
60
40
20
0
−20
−40
−60
−80

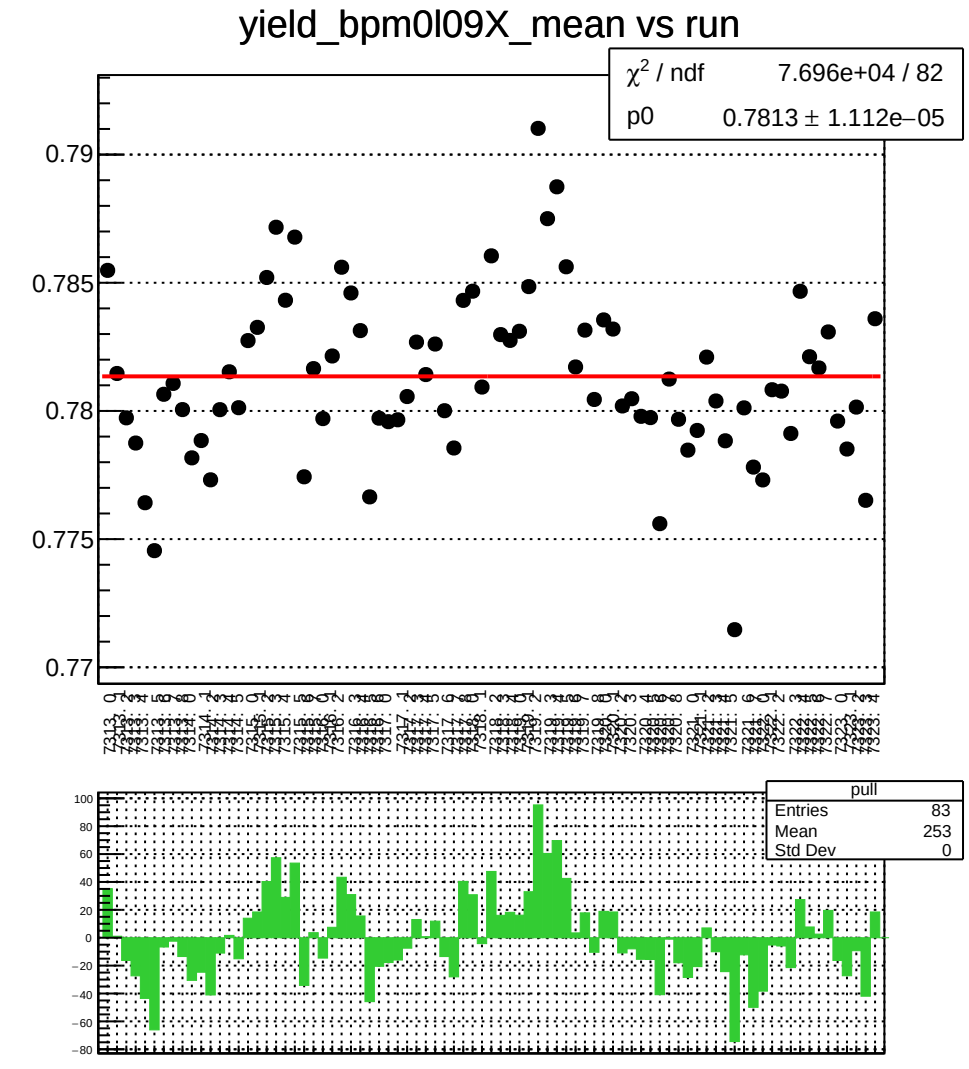

pull1D
Entries 83
Mean 0.01758
Std Dev 3.869
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

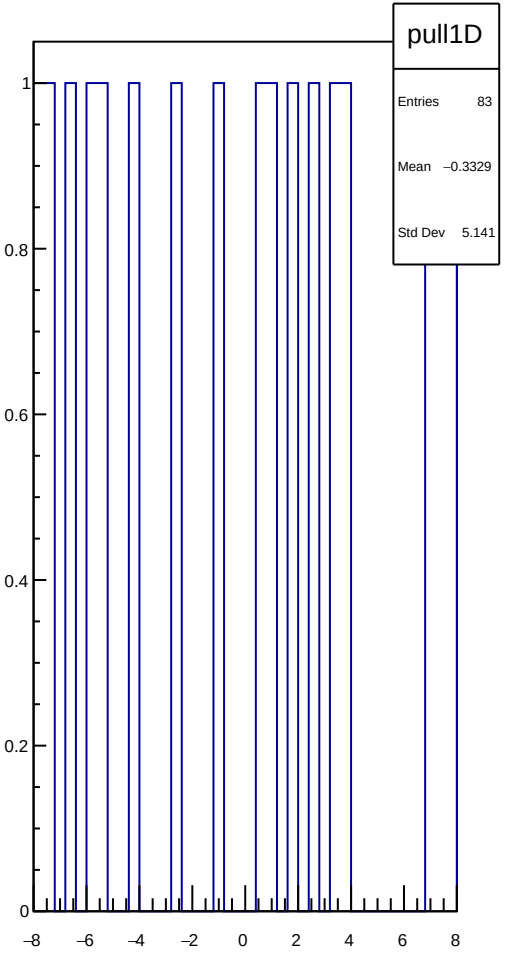

yield_bpm0l08X_rms vs run
χ² / ndf 1.166e+04 / 82
p0 0.01019 ± 8.057e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

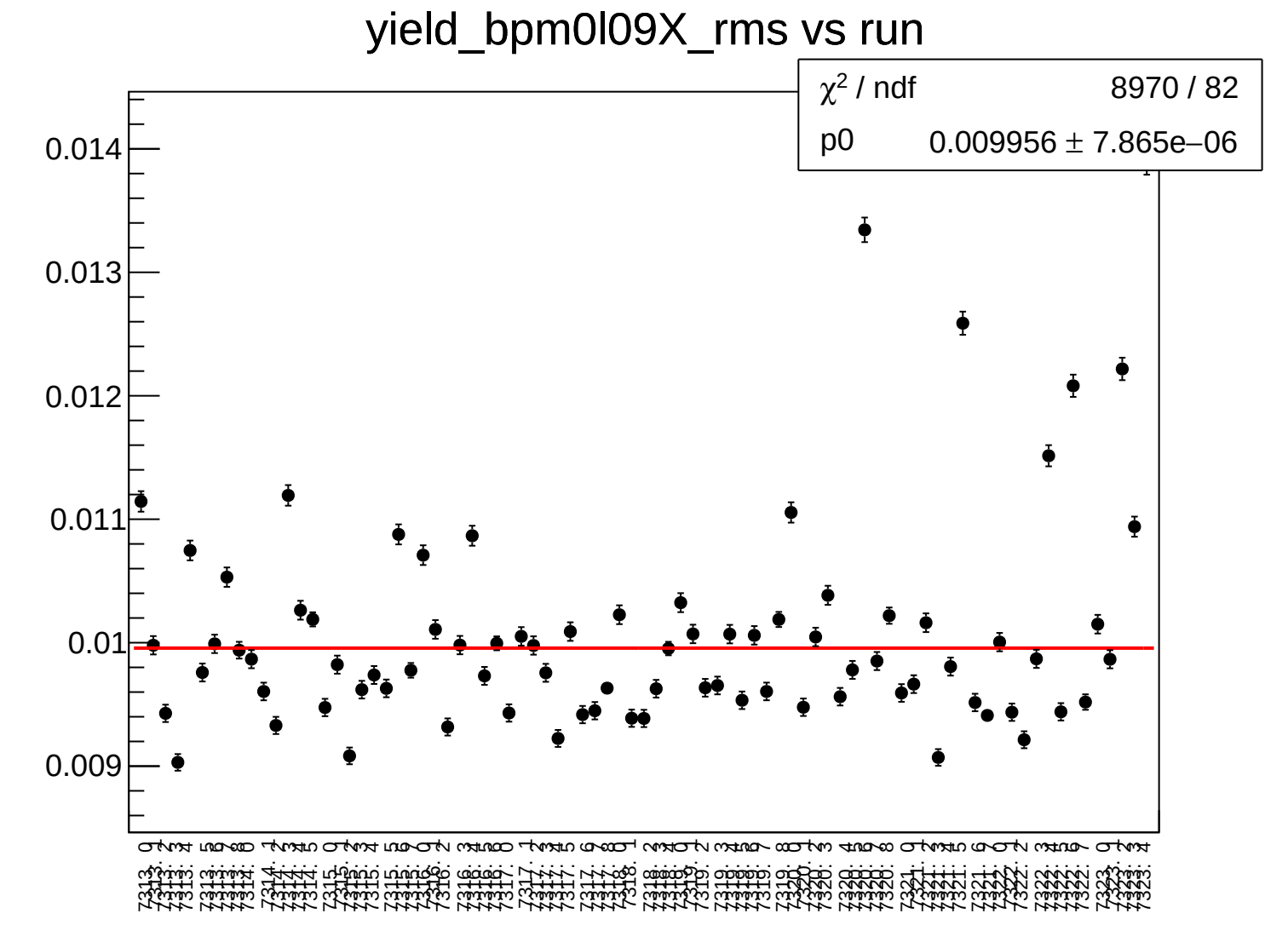

yield_bpm0l08Y_mean vs run
χ² / ndf 7.419e+05 / 82
p0 −0.1293 ± 2.917e−06
−0.124
−0.126
−0.128
−0.13
−0.132
−0.134
pull
Entries 83
Mean −1914
Std Dev 0
150
100
50
0
−50
−100
−150
−200

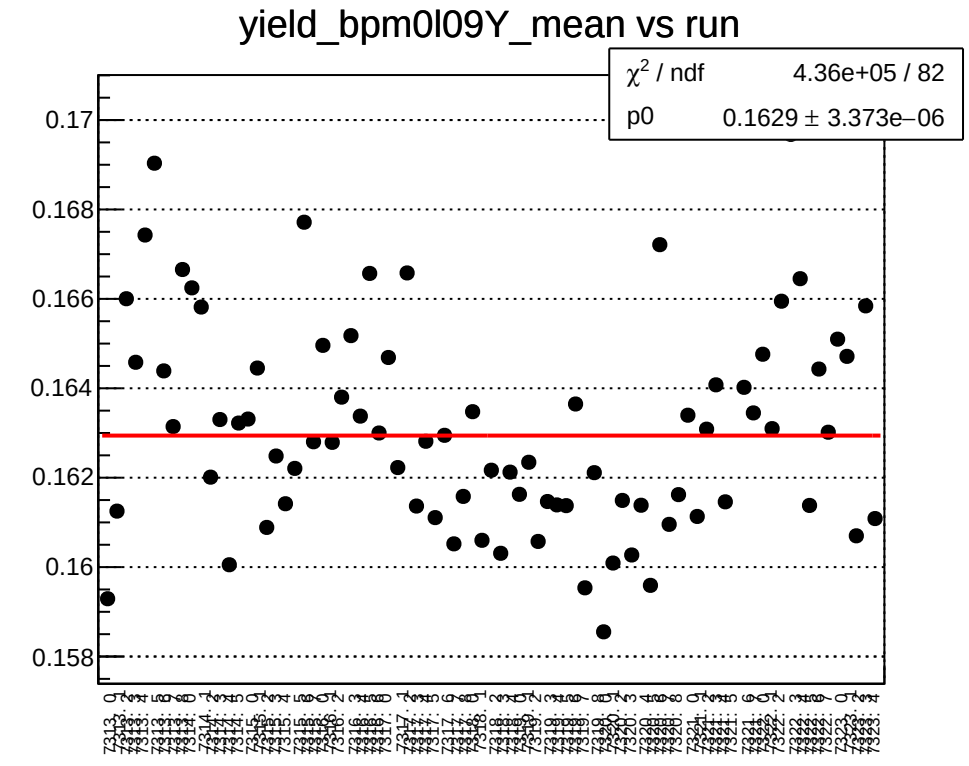

pull1D
Entries 83
Mean 2.473
Std Dev 1.333
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

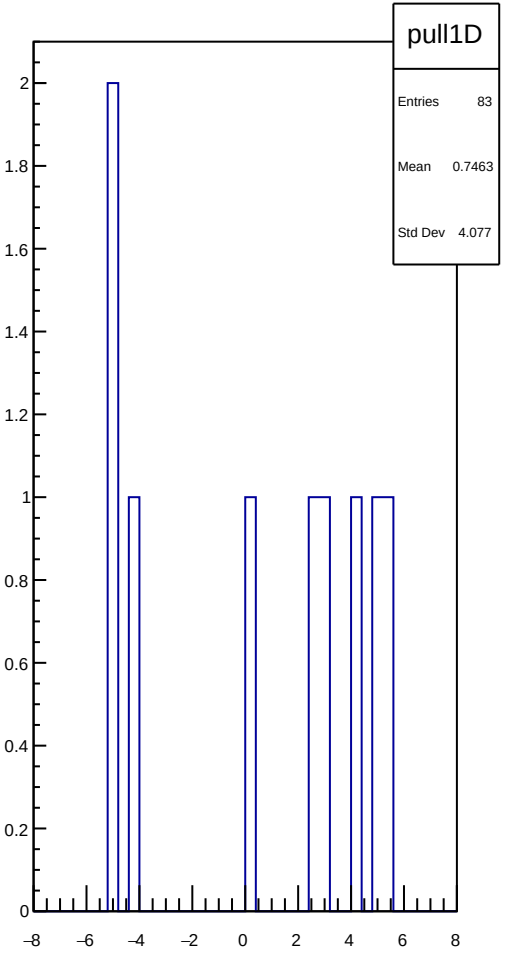

yield_bpm0l08Y_rms vs run
χ² / ndf 2.287e+04 / 82
p0 0.0026 ± 2.063e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

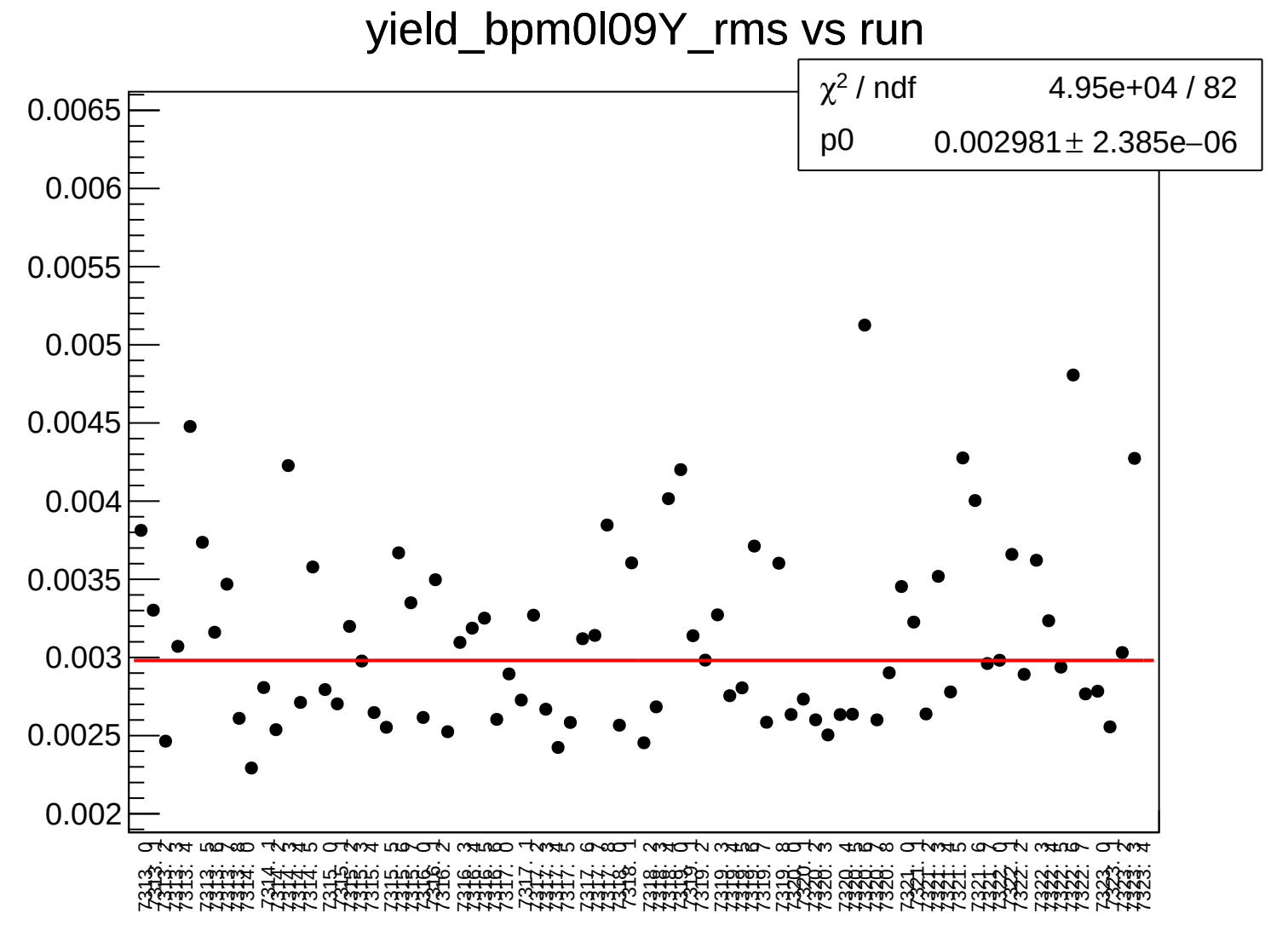

yield_bpm0l09X_mean vs run
χ² / ndf 7.696e+04 / 82
p0 0.7813 ± 1.112e−05
0.79
0.785
0.78
0.775
0.77
pull
Entries 83
Mean 253
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

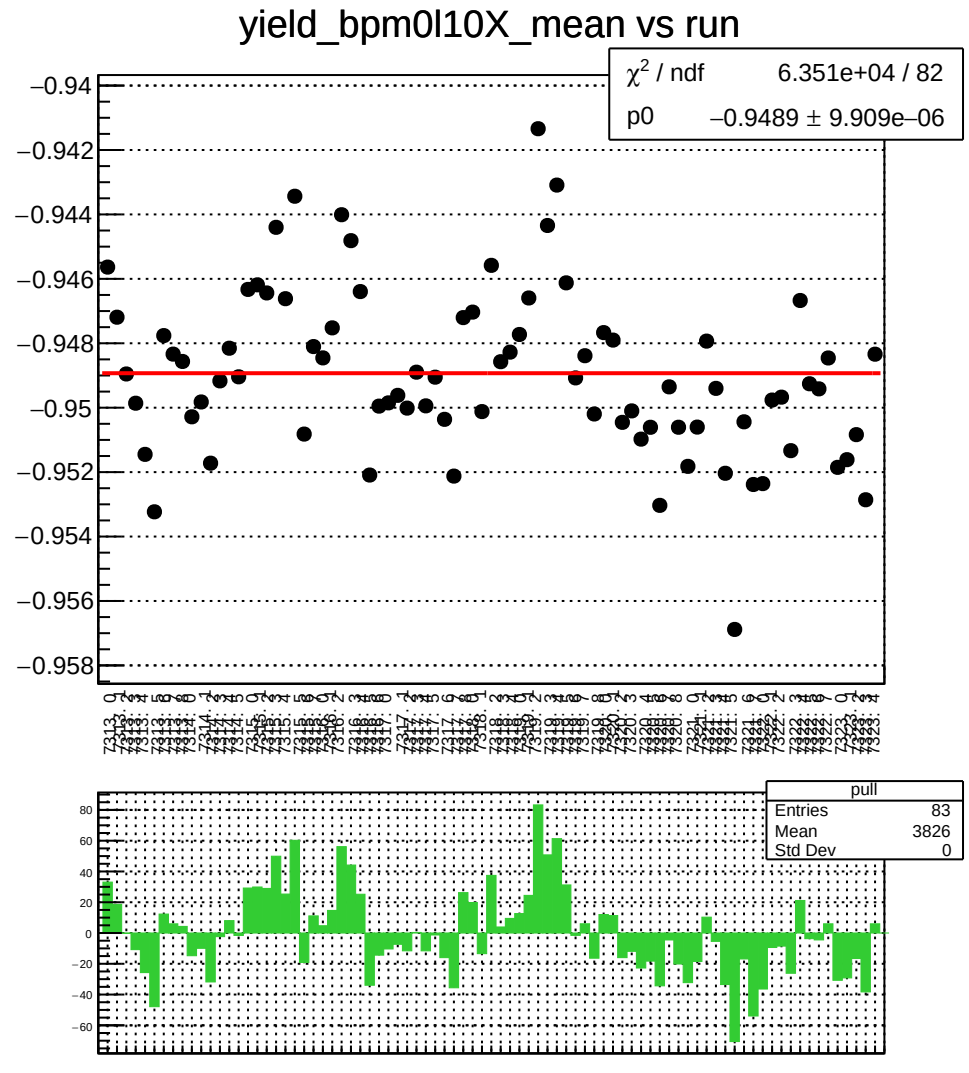

pull1D
Entries 83
Mean −0.3329
Std Dev 5.141
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

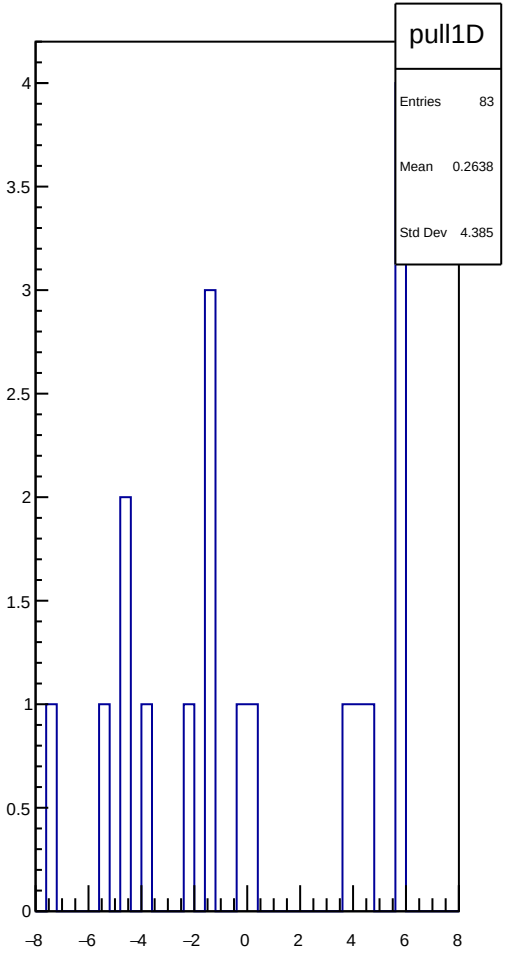

yield_bpm0l09X_rms vs run
χ² / ndf 8970 / 82
p0 0.009956 ± 7.865e−06
0.014
0.013
0.012
0.011
0.01
0.009

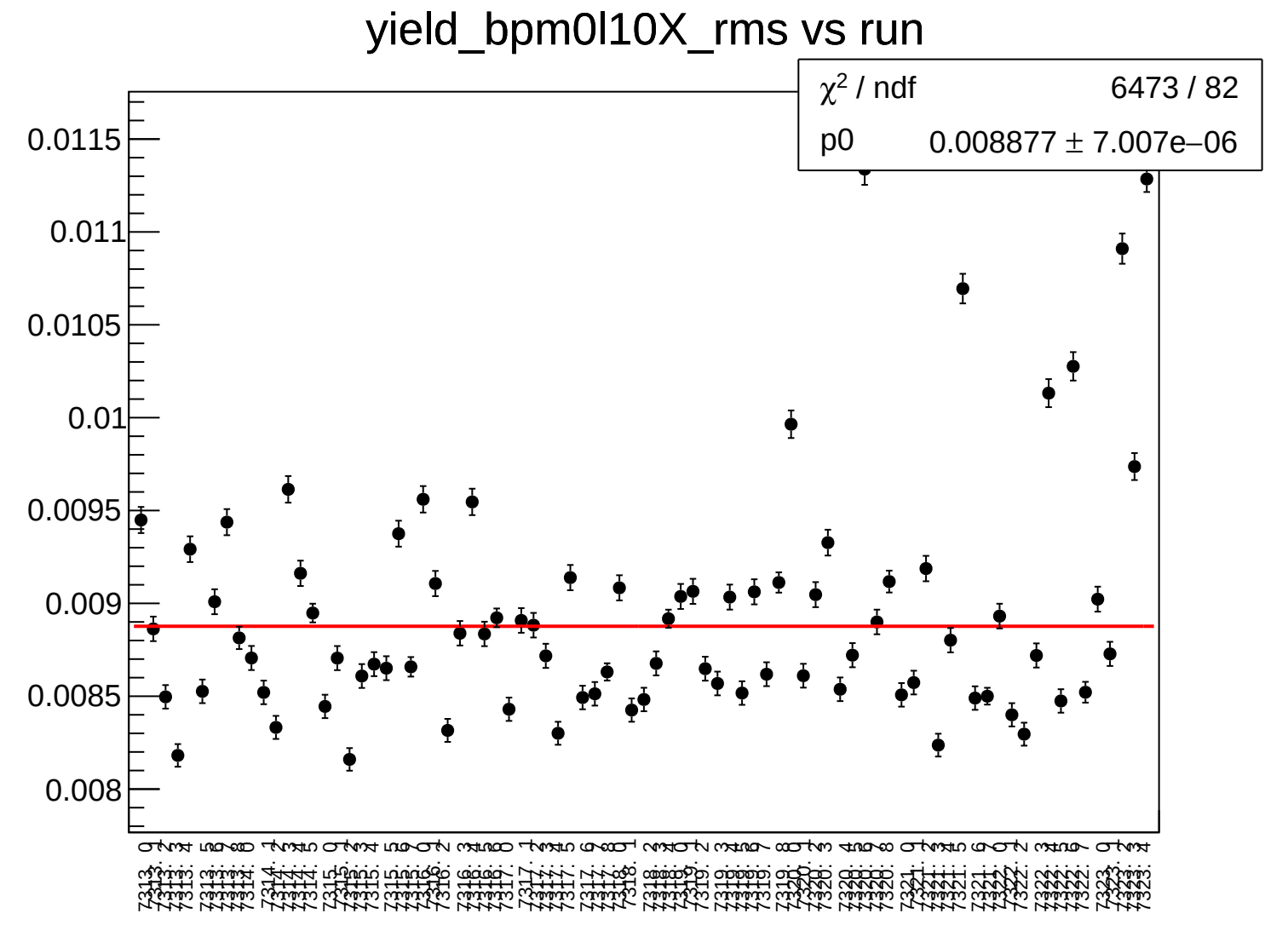

yield_bpm0l09Y_mean vs run
χ² / ndf 4.36e+05 / 82
p0 0.1629 ± 3.373e−06
0.17
0.168
0.166
0.164
0.162
0.16
0.158
pull
Entries 83
Mean −29.36
Std Dev 19.72
150
100
50
0
−50
−100
−150

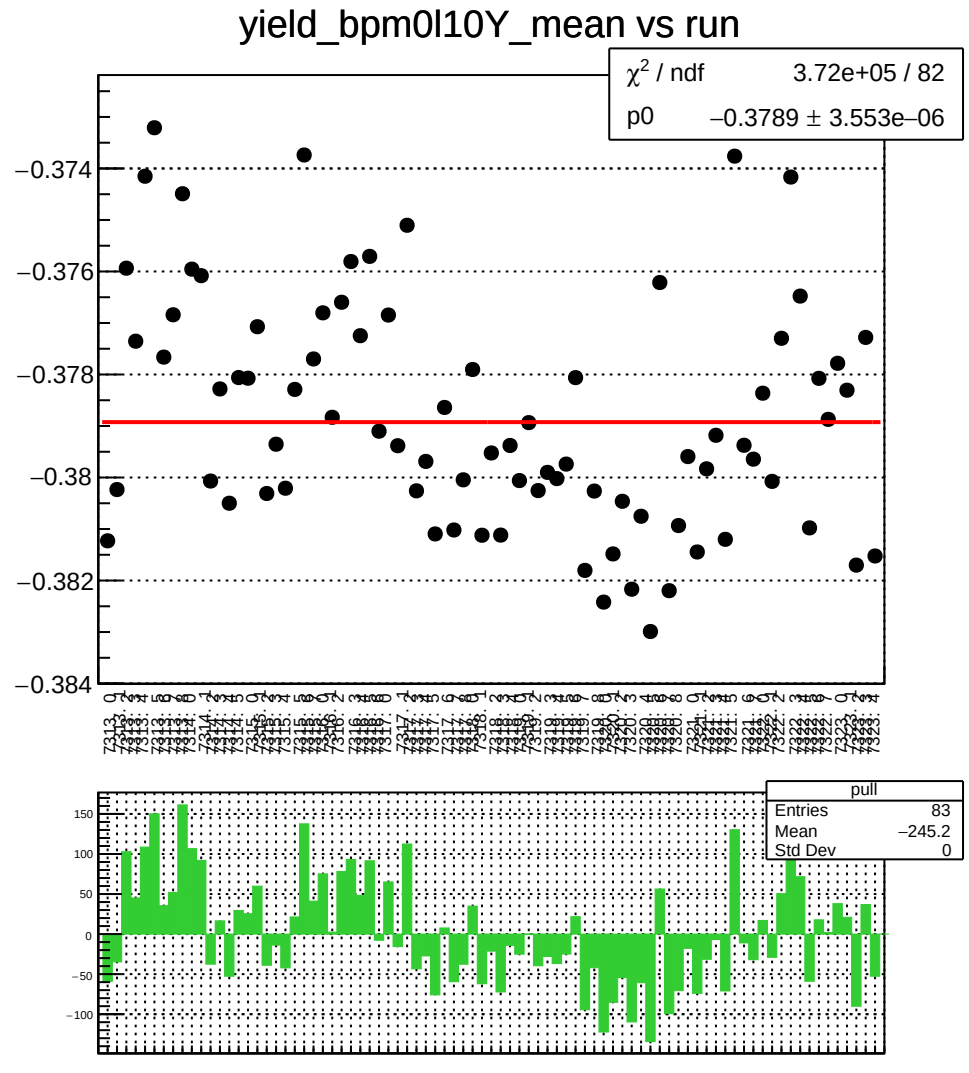

pull1D
Entries 83
Mean 0.7463
Std Dev 4.077
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

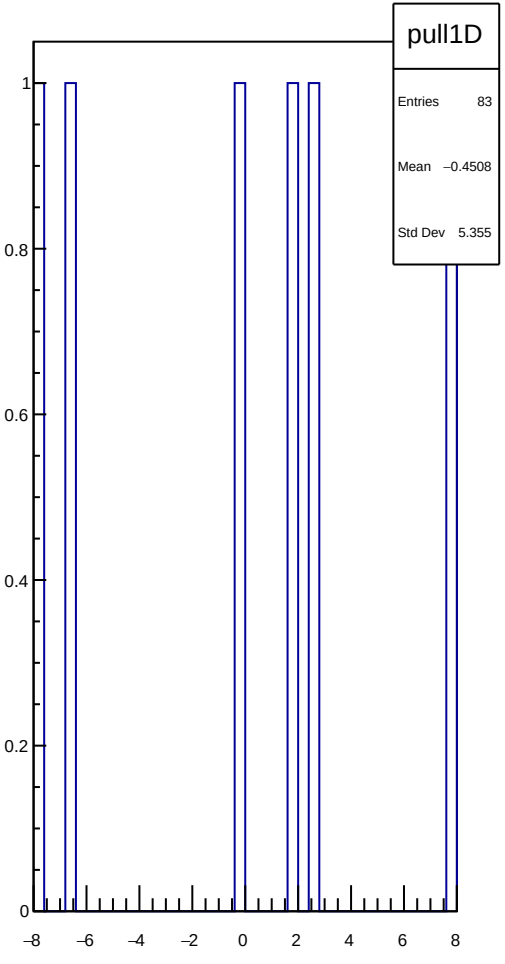

yield_bpm0l09Y_rms vs run
χ² / ndf 4.95e+04 / 82
p0 0.002981 ± 2.385e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

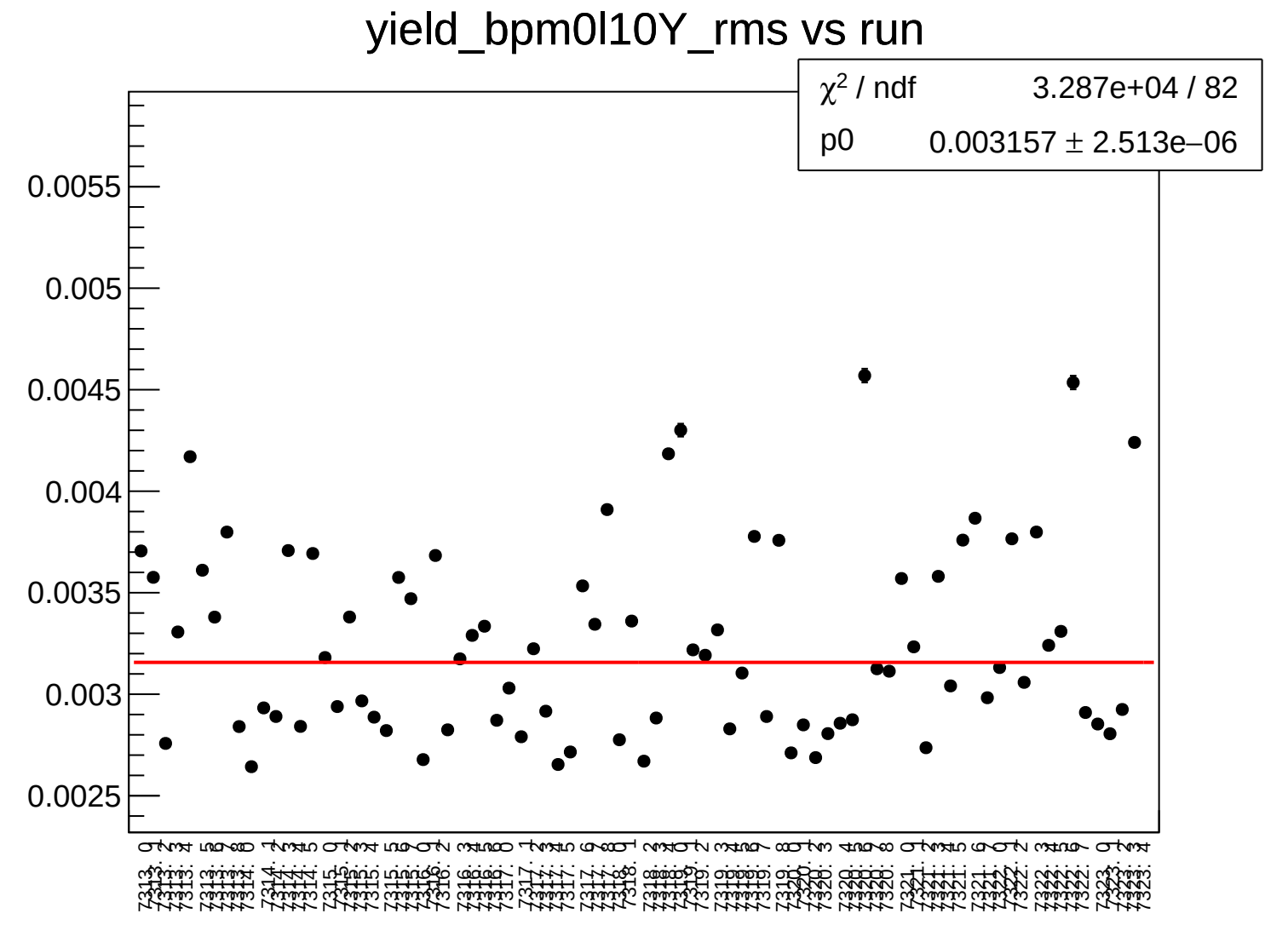

yield_bpm0l10X_mean vs run
χ² / ndf 6.351e+04 / 82
p0 −0.9489 ± 9.909e−06
pull
Entries 83
Mean 3826
Std Dev 0

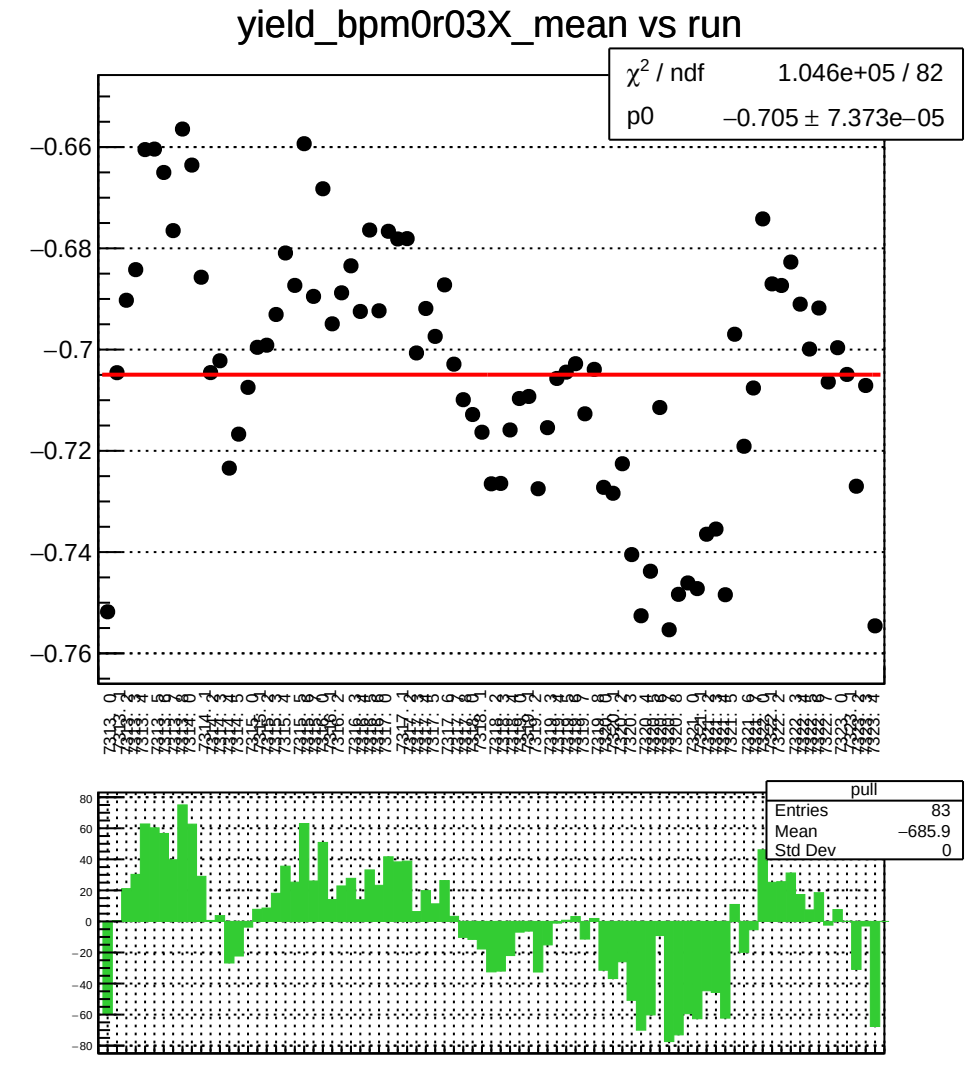

pull1D
Entries 83
Mean 0.2638
Std Dev 4.385

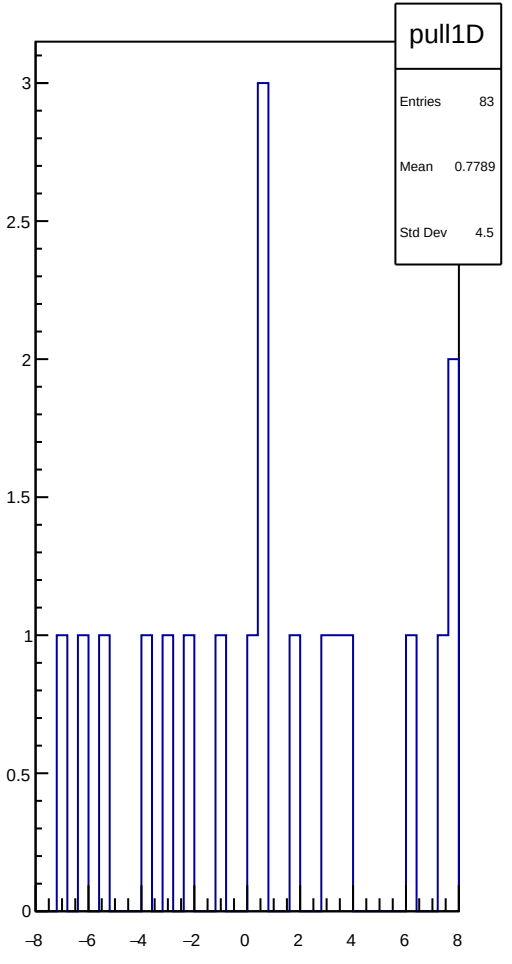

yield_bpm0l10X_rms vs run
χ² / ndf 6473 / 82
p0 0.008877 ± 7.007e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

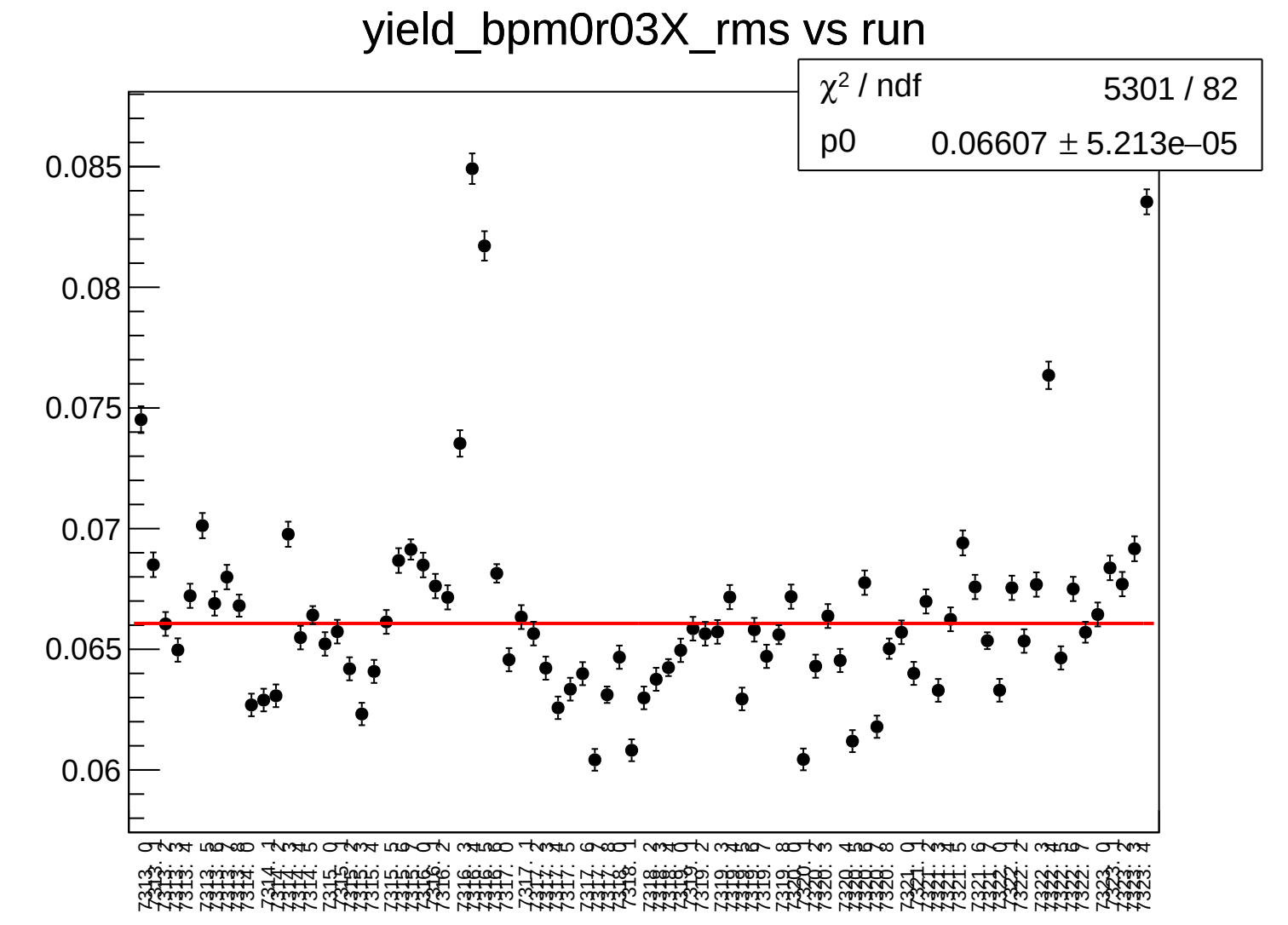

yield_bpm0l10Y_mean vs run
χ² / ndf 3.72e+05 / 82
p0 −0.3789 ± 3.553e−06
−0.374
−0.376
−0.378
−0.38
−0.382
−0.384
pull
Entries 83
Mean −245.2
Std Dev 0
150
100
50
0
−50
−100

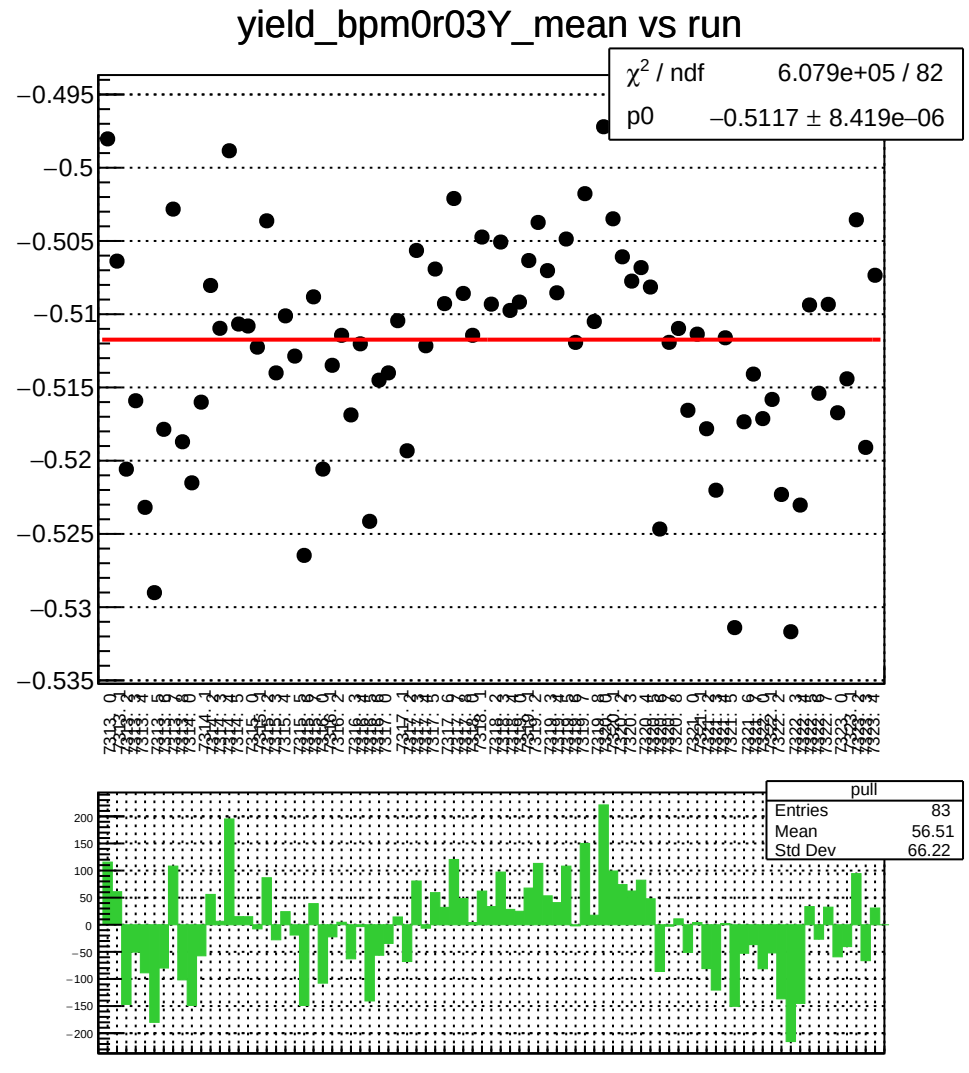

pull1D
Entries 83
Mean −0.4508
Std Dev 5.355
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

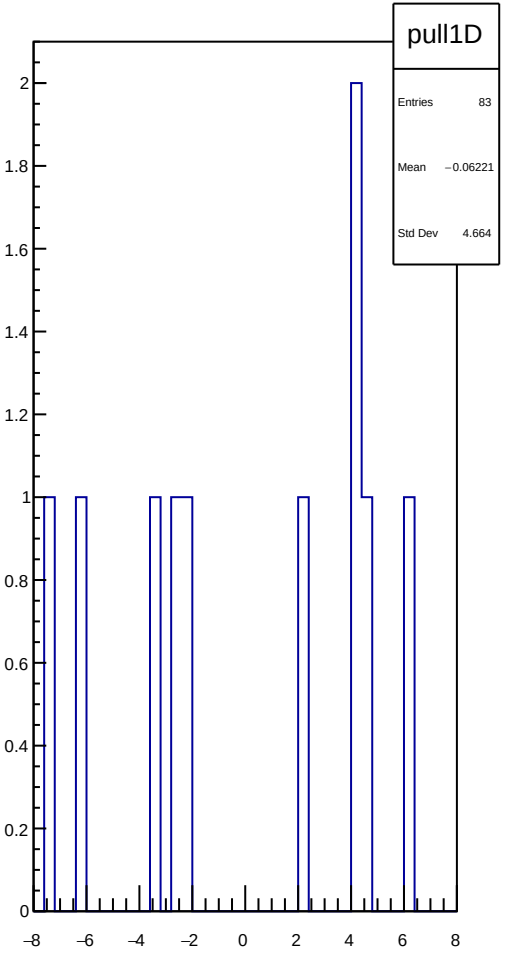

yield_bpm0l10Y_rms vs run
χ² / ndf 3.287e+04 / 82
p0 0.003157 ± 2.513e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

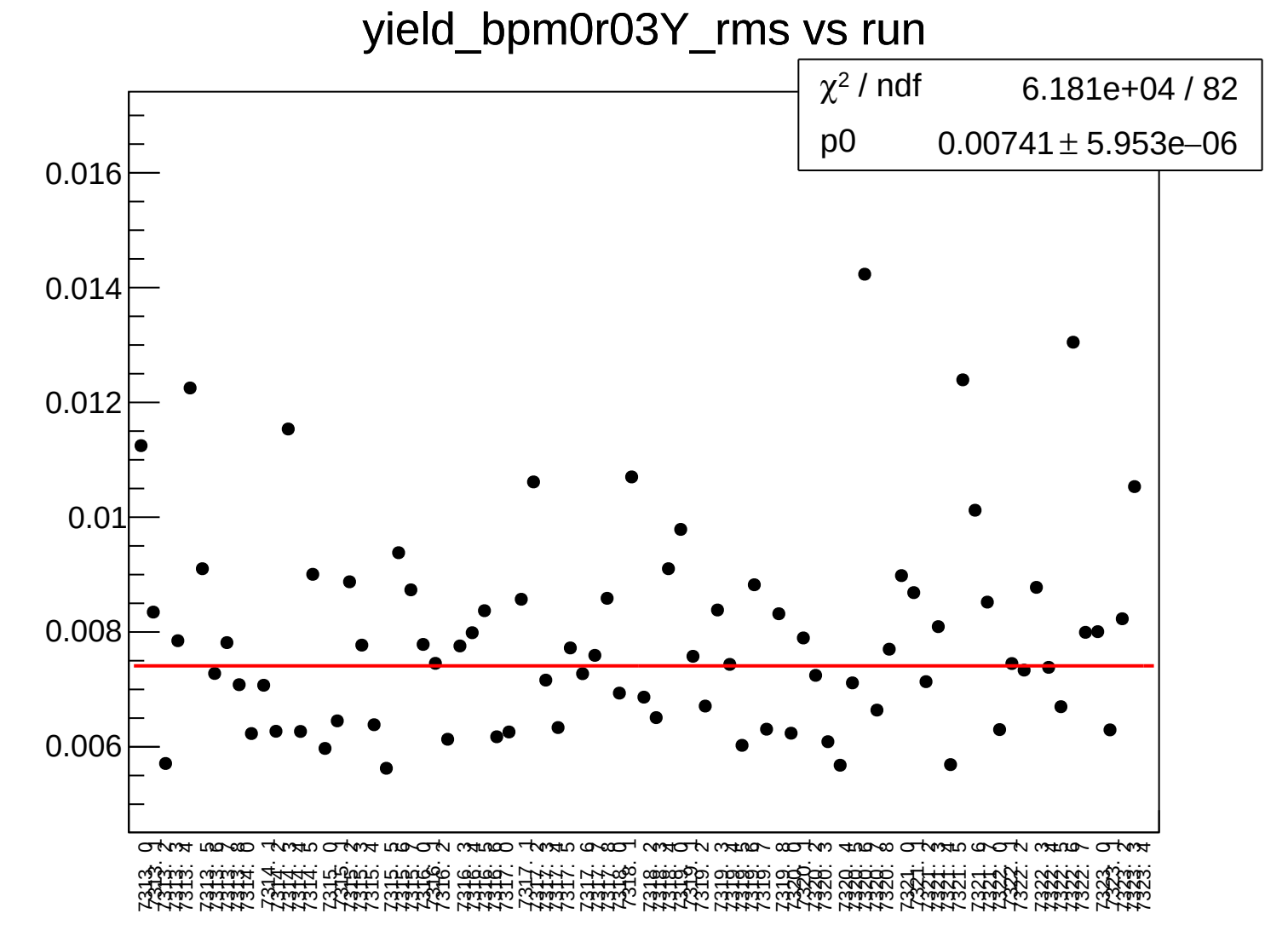

yield_bpm0r03X_mean vs run
χ² / ndf 1.046e+05 / 82
p0 −0.705 ± 7.373e−05
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
pull
Entries 83
Mean −685.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

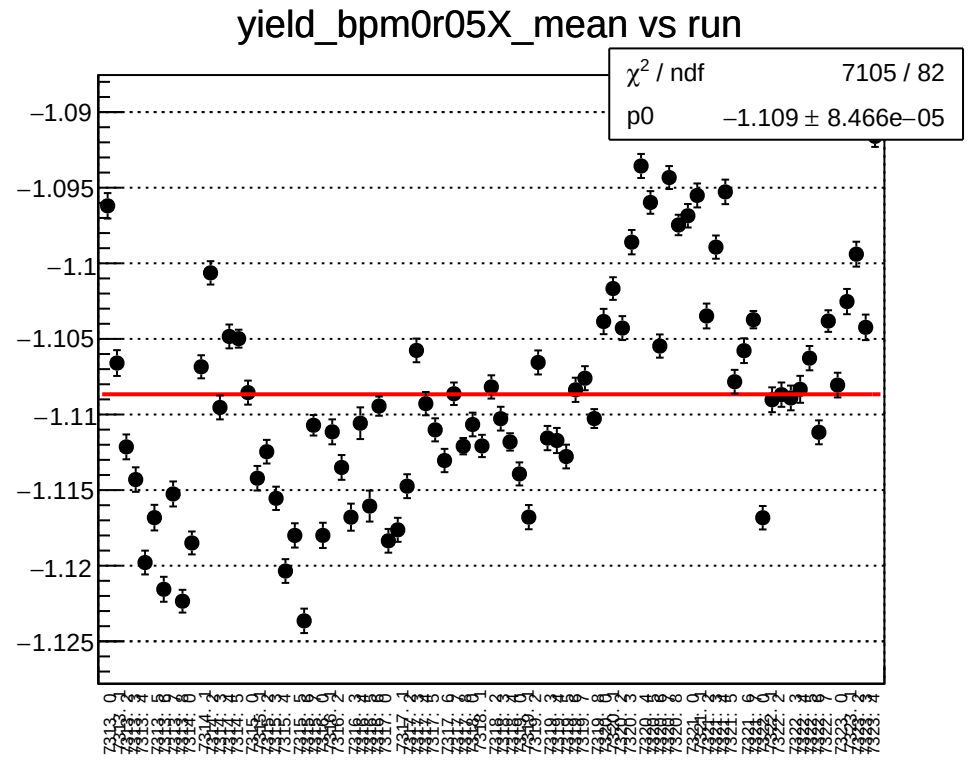

pull1D
Entries 83
Mean 0.7789
Std Dev 4.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

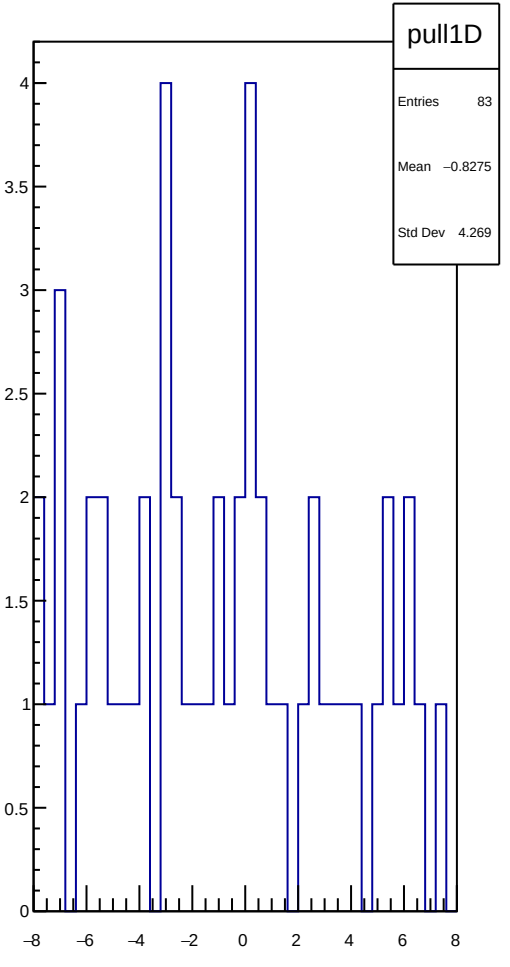

yield_bpm0r03X_rms vs run
χ² / ndf 5301 / 82
p0 0.06607 ± 5.213e–05
0.085
0.08
0.075
0.07
0.065
0.06

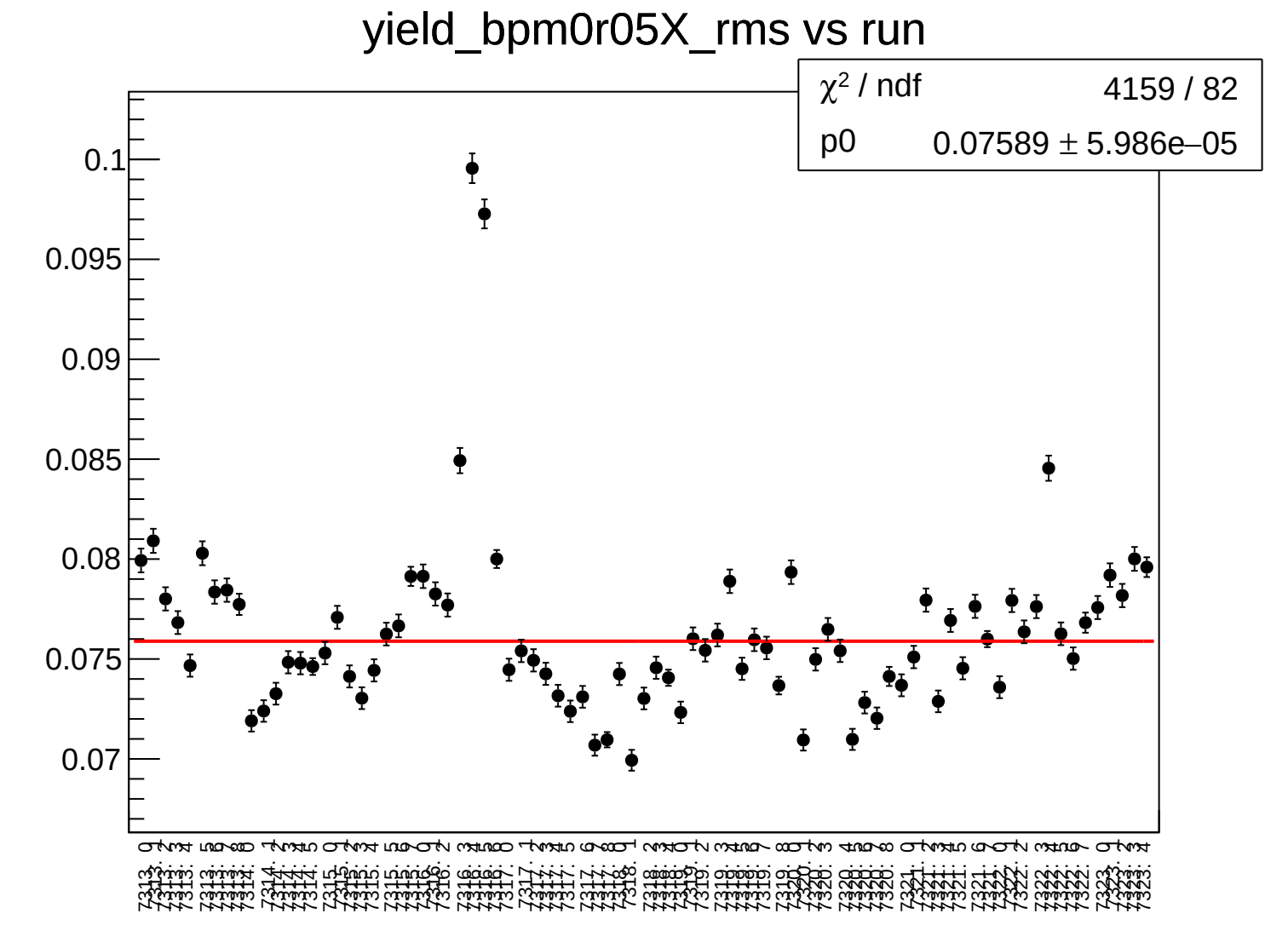

yield_bpm0r03Y_mean vs run
χ² / ndf 6.079e+05 / 82
p0 −0.5117 ± 8.419e−06
−0.495
−0.5
−0.505
−0.51
−0.515
−0.52
−0.525
−0.53
−0.535
pull
Entries 83
Mean 56.51
Std Dev 66.22
200
150
100
50
0
−50
−100
−150
−200

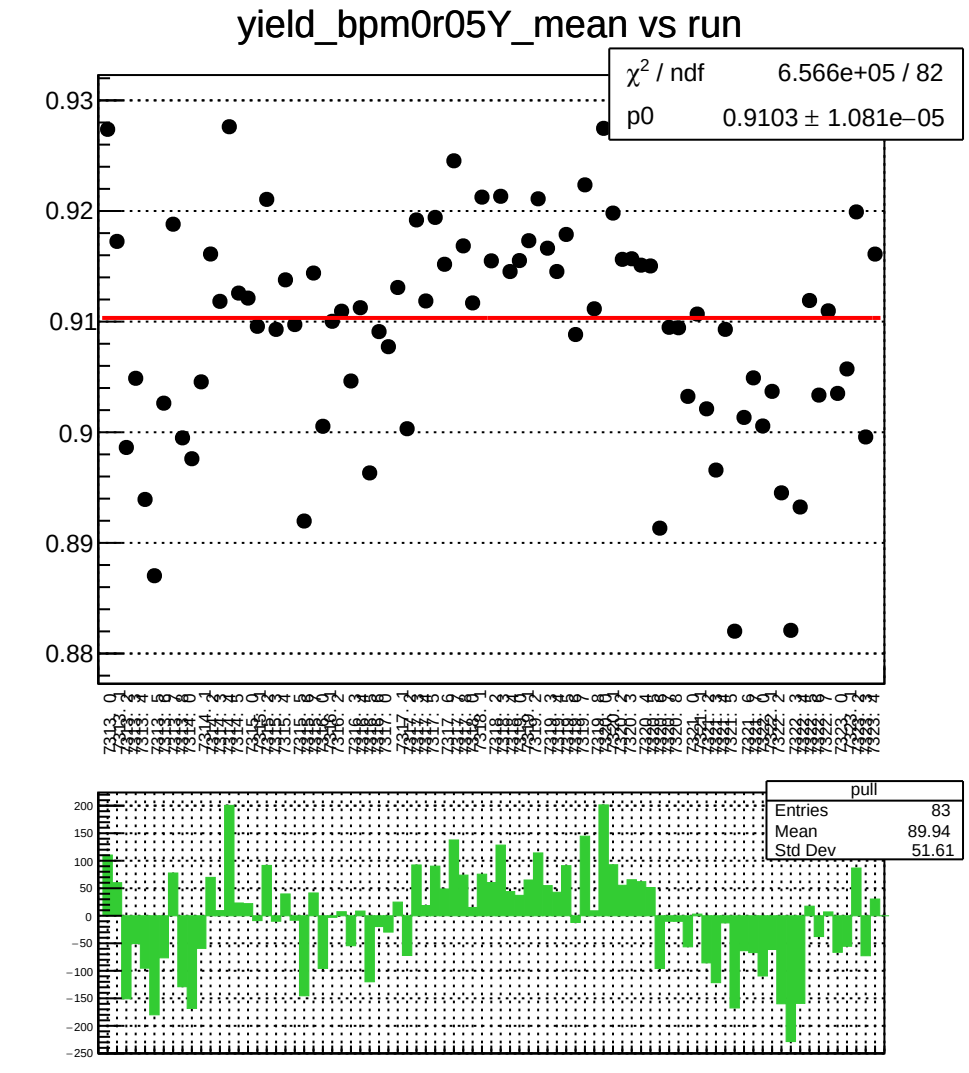

pull1D
Entries 83
Mean −0.06221
Std Dev 4.664
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

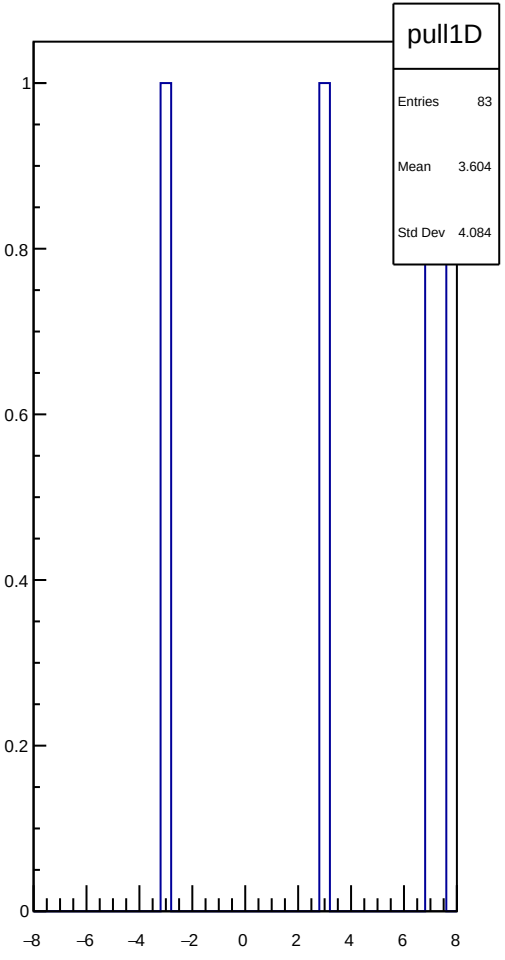

yield_bpm0r03Y_rms vs run
χ² / ndf 6.181e+04 / 82
p0 0.00741 ± 5.953e–06
0.016
0.014
0.012
0.01
0.008
0.006

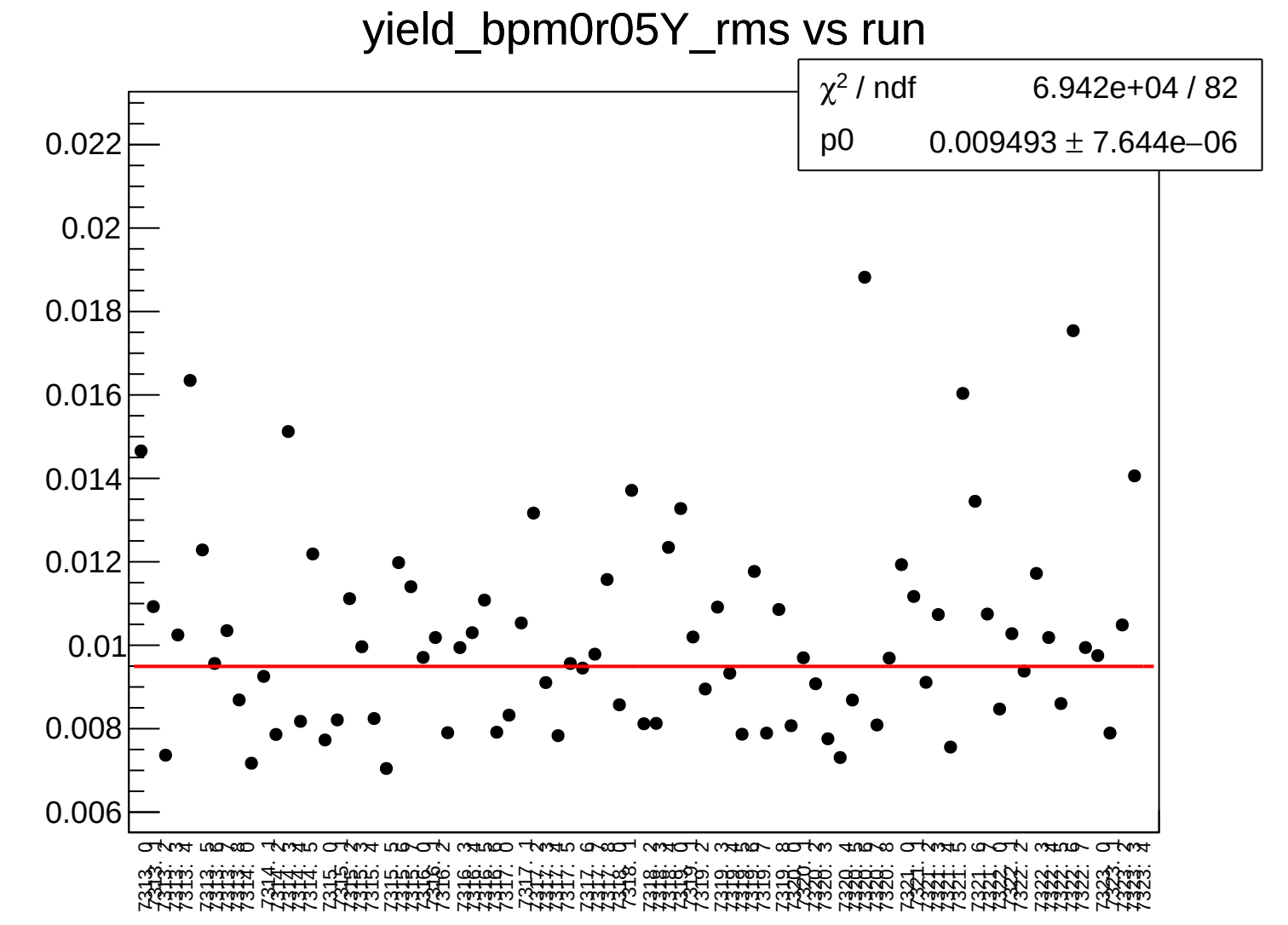

yield_bpm0r05X_mean vs run
χ² / ndf 7105 / 82
p0 −1.109 ± 8.466e−05
−1.09
−1.095
−1.1
−1.105
−1.11
−1.115
−1.12
−1.125
pull
Entries 83
Mean −1004
Std Dev 0
25
20
15
10
5
0
−5
−10
−15
−20

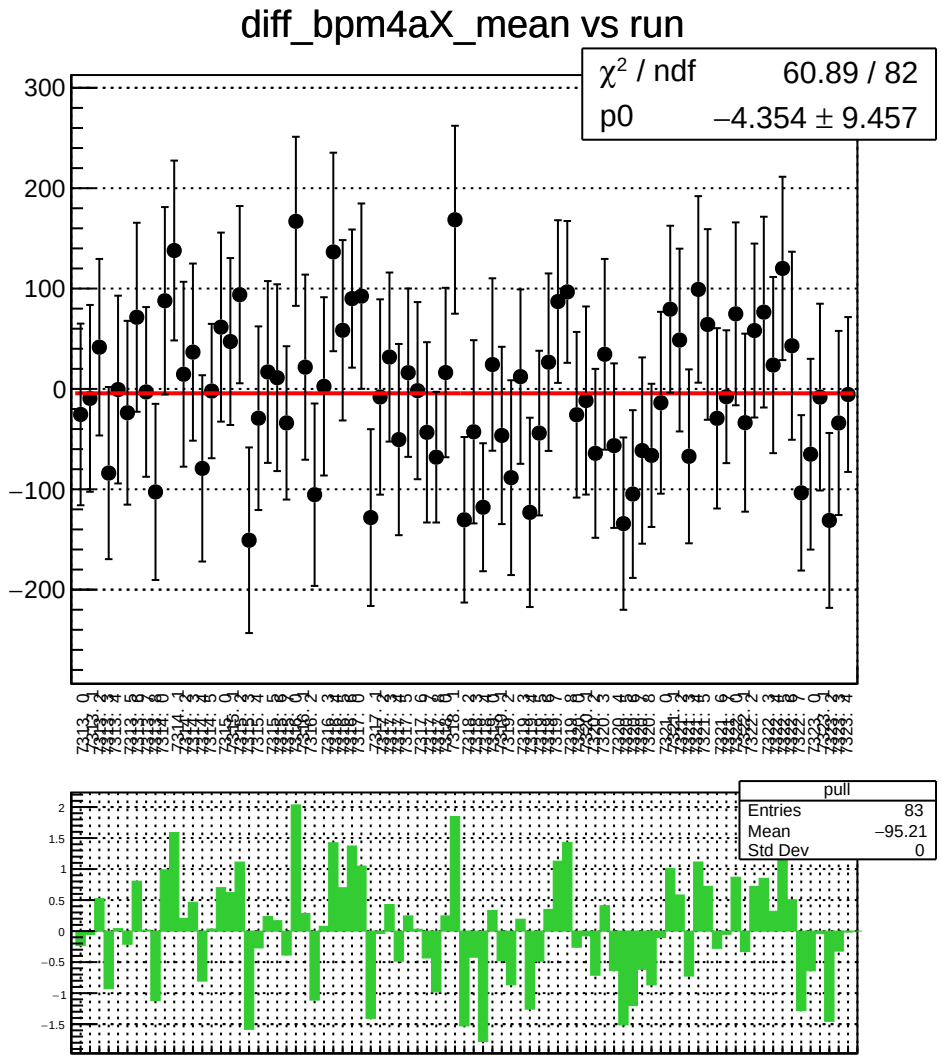

pull1D
Entries 83
Mean −0.8275
Std Dev 4.269
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

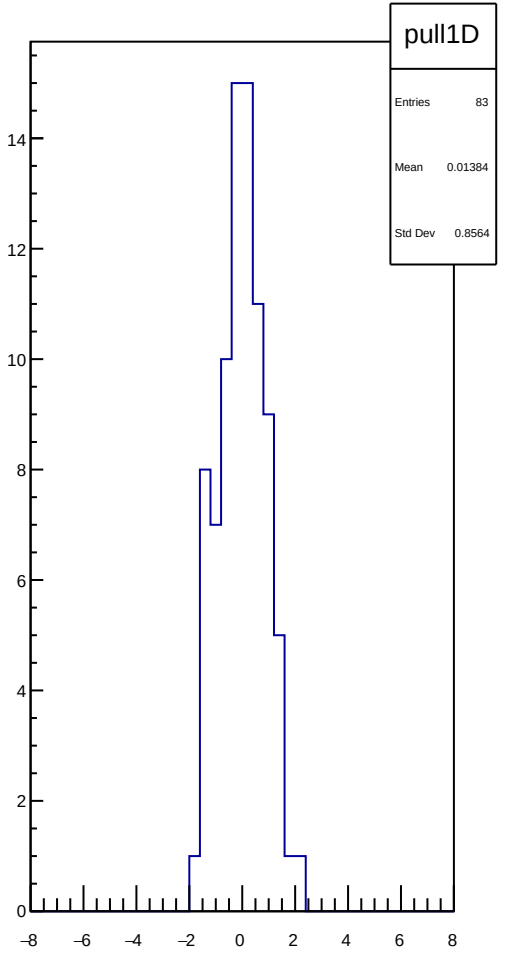

yield_bpm0r05X_rms vs run
χ² / ndf 4159 / 82
p0 0.07589 ± 5.986e–05
0.1
0.095
0.09
0.085
0.08
0.075
0.07

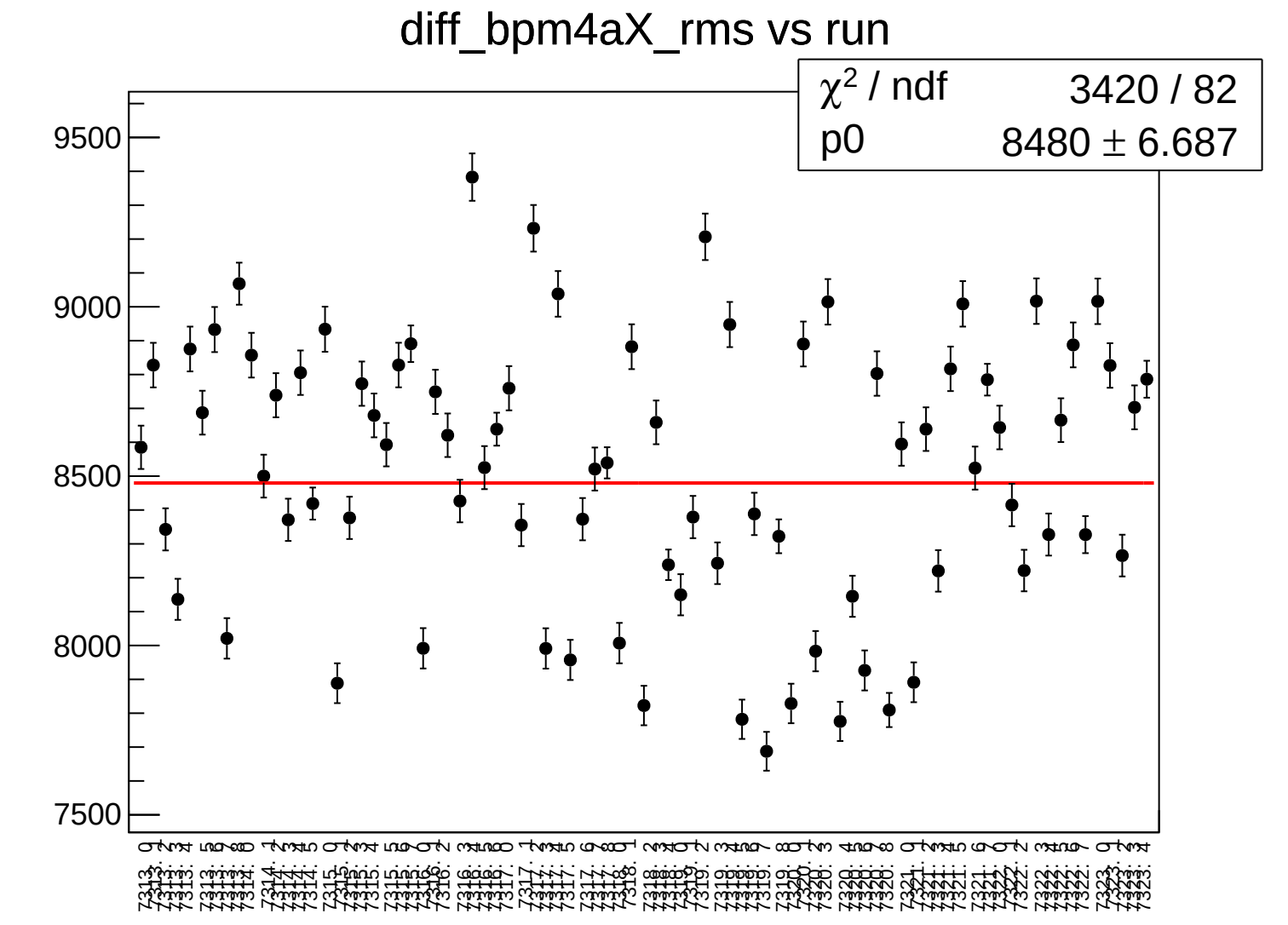

yield_bpm0r05Y_mean vs run
χ² / ndf 6.566e+05 / 82
p0 0.9103 ± 1.081e−05
0.93
0.92
0.91
0.9
0.89
0.88
pull
Entries 83
Mean 89.94
Std Dev 51.61
200
150
100
50
0
−50
−100
−150
−200
−250

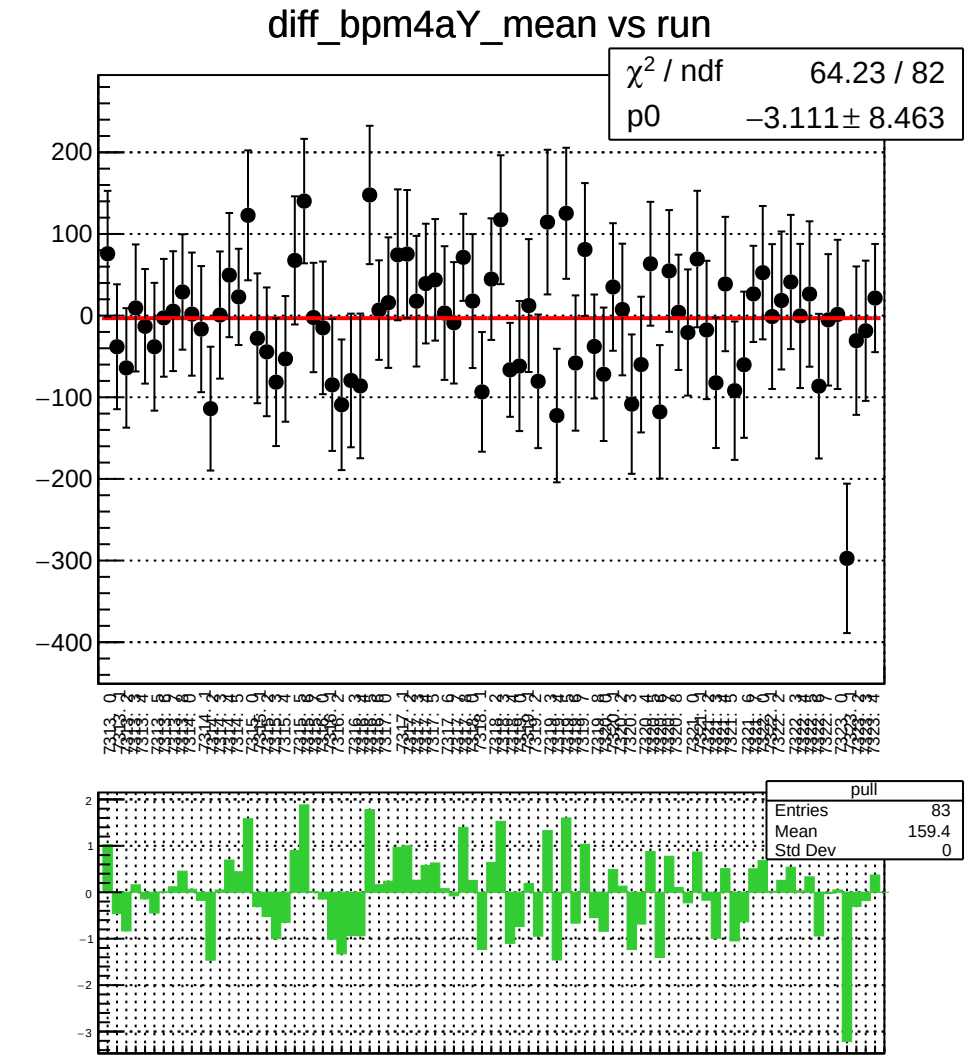

pull1D
Entries 83
Mean 3.604
Std Dev 4.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

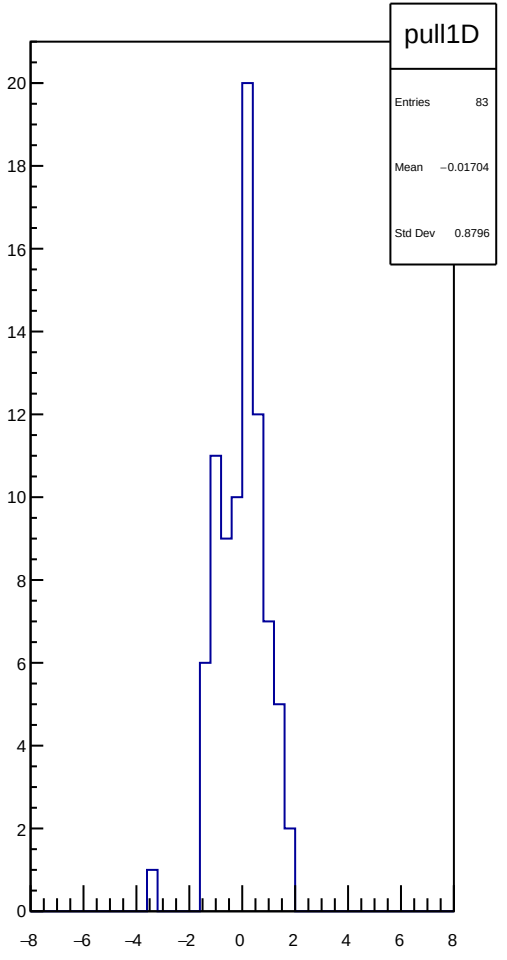

yield_bpm0r05Y_rms vs run
χ² / ndf 6.942e+04 / 82
p0 0.009493 ± 7.644e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

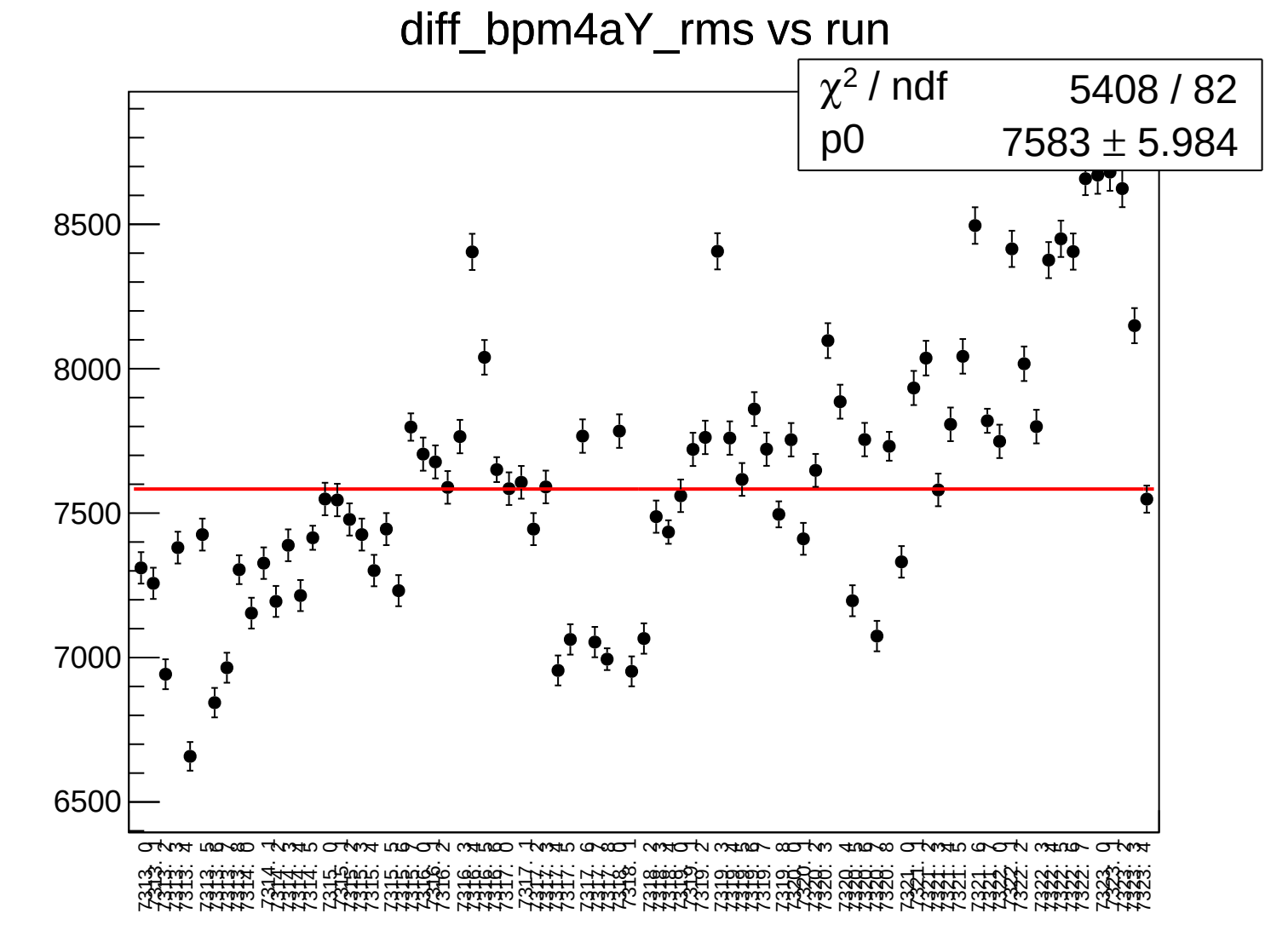

diff_bpm4aX_mean vs run
χ² / ndf 60.89 / 82
p0 −4.354 ± 9.457
pull
Entries 83
Mean −95.21
Std Dev 0

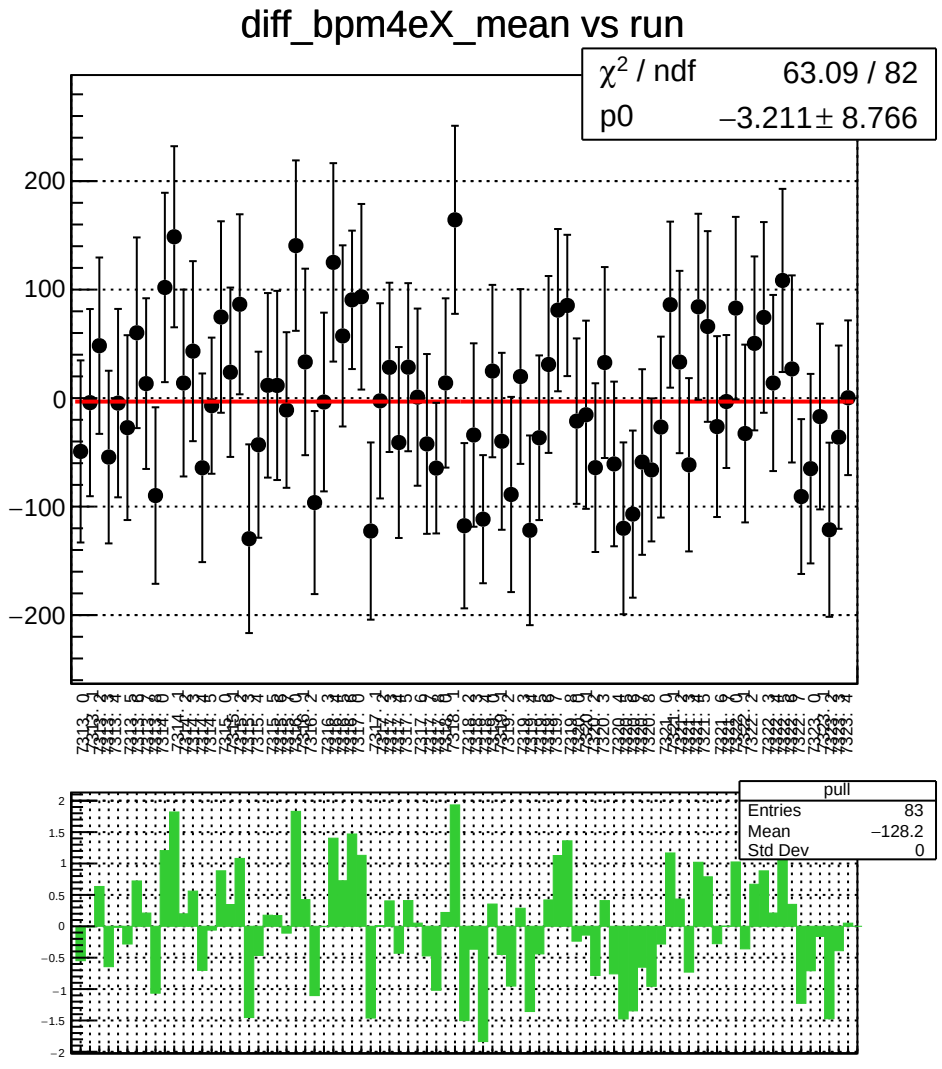

pull1D
Entries 83
Mean 0.01384
Std Dev 0.8564

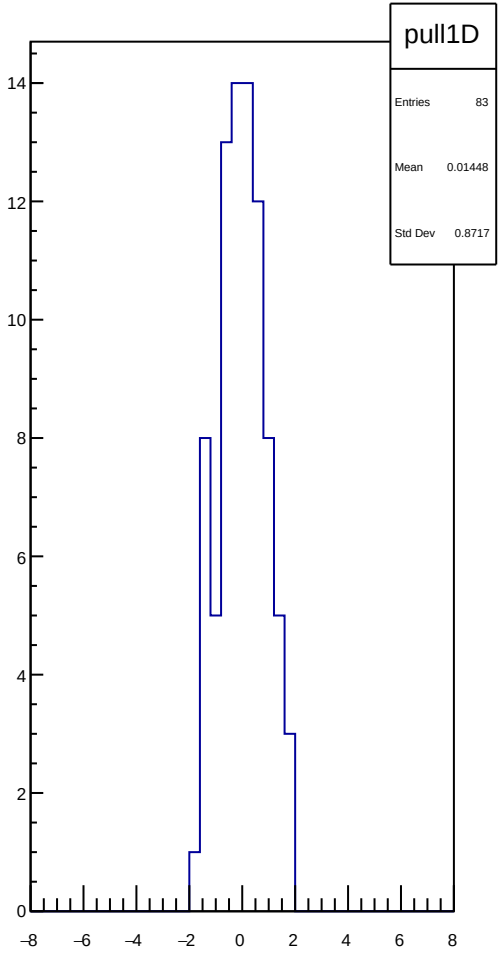

diff_bpm4aX_rms vs run
χ² / ndf 3420 / 82
p0 8480 ± 6.687
9500
9000
8500
8000
7500

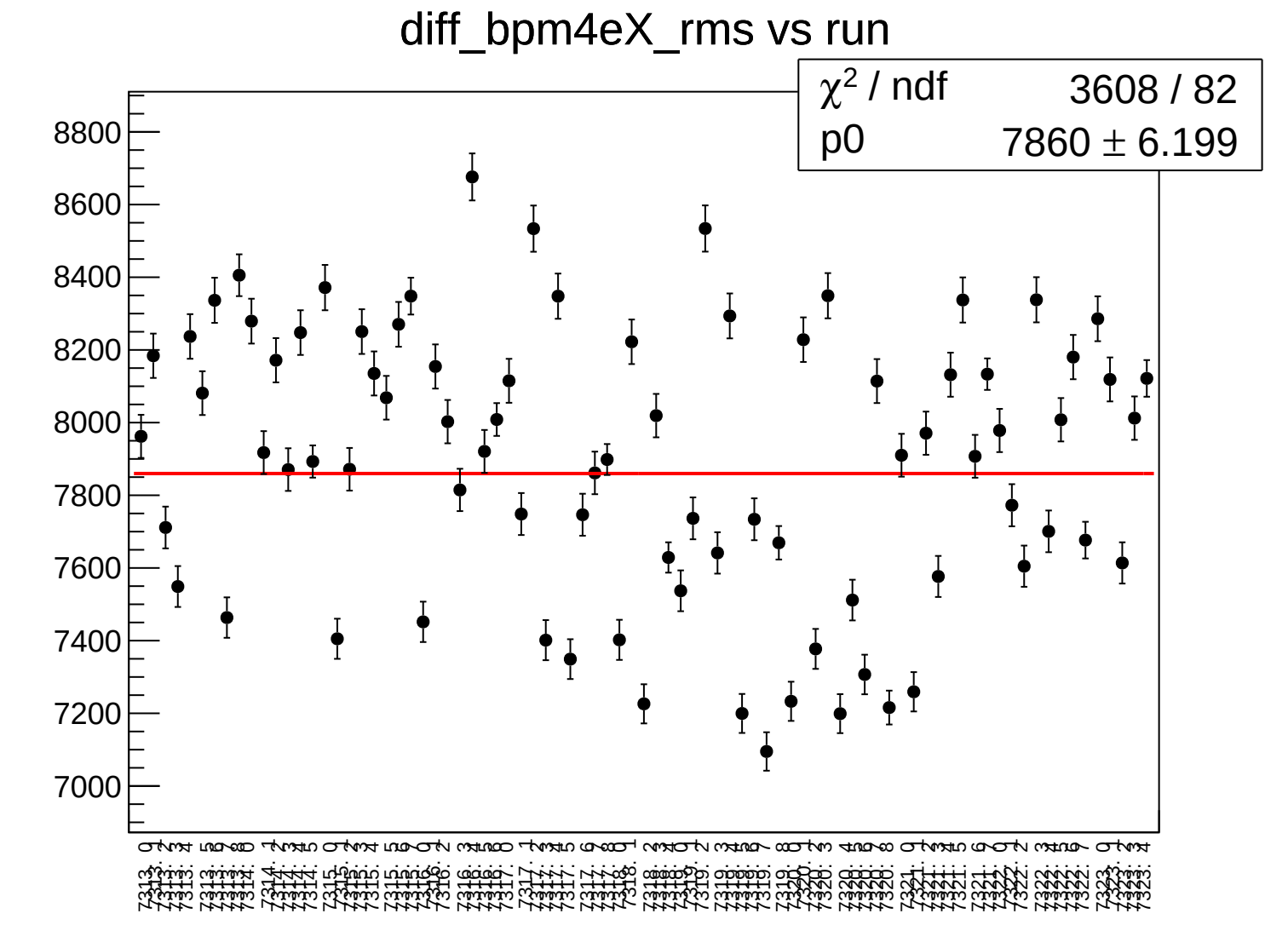

diff_bpm4aY_mean vs run
χ² / ndf 64.23 / 82
p0 −3.111 ± 8.463
pull
Entries 83
Mean 159.4
Std Dev 0

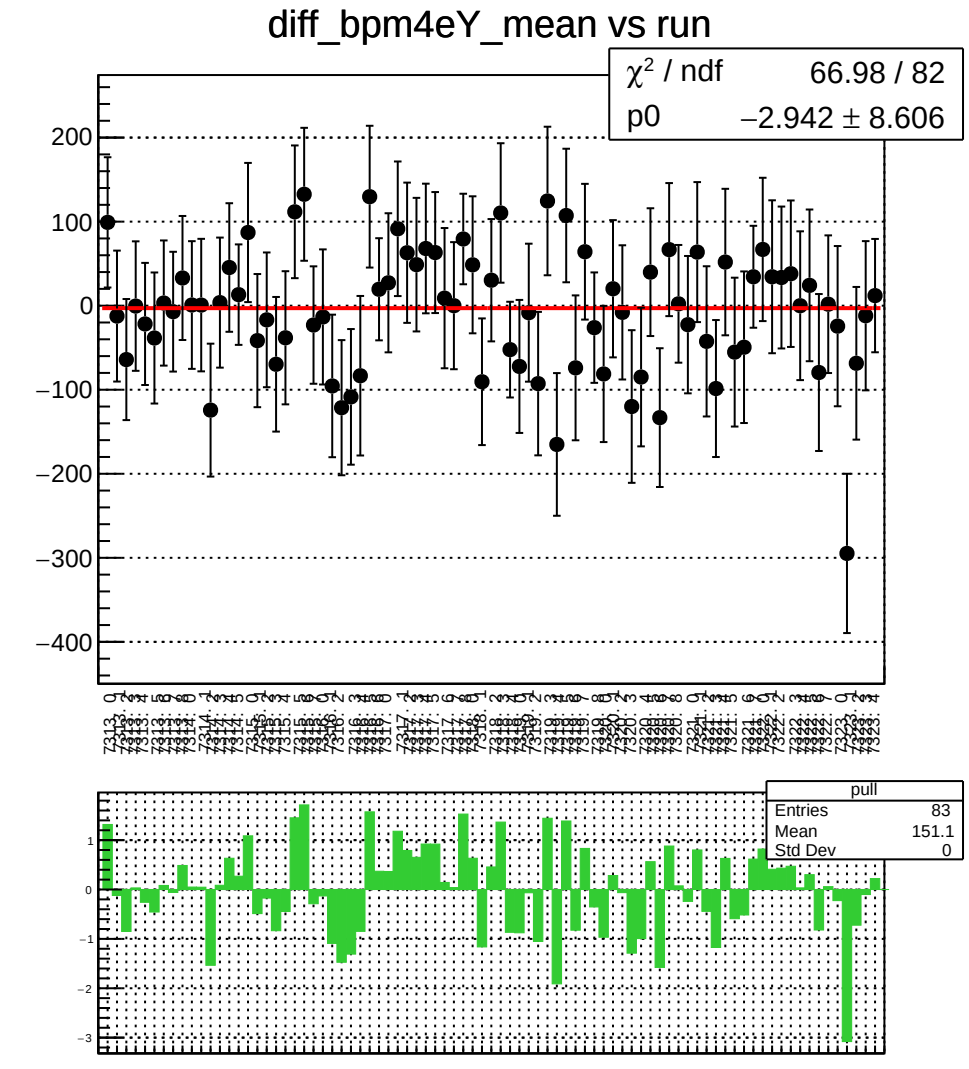

pull1D
Entries 83
Mean −0.01704
Std Dev 0.8796

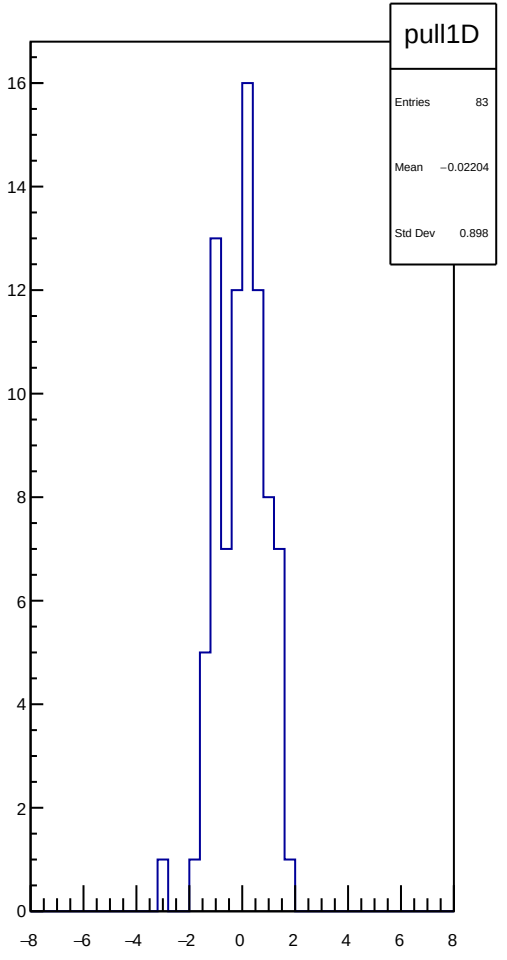

diff_bpm4aY_rms vs run
χ² / ndf 5408 / 82
p0 7583 ± 5.984
8500
8000
7500
7000
6500

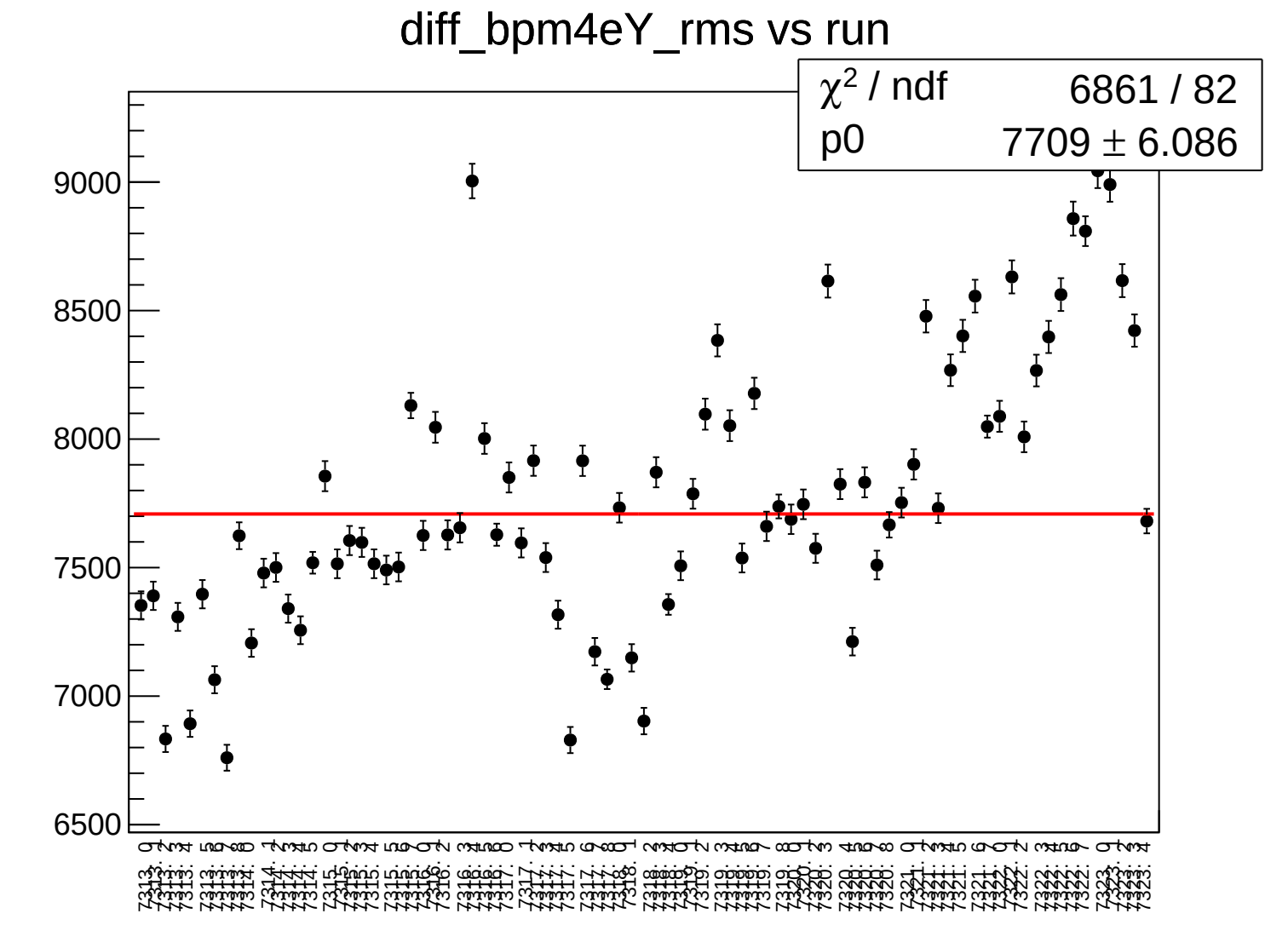

diff_bpm4eX_mean vs run
χ² / ndf 63.09 / 82
p0 −3.211 ± 8.766
pull
Entries 83
Mean −128.2
Std Dev 0

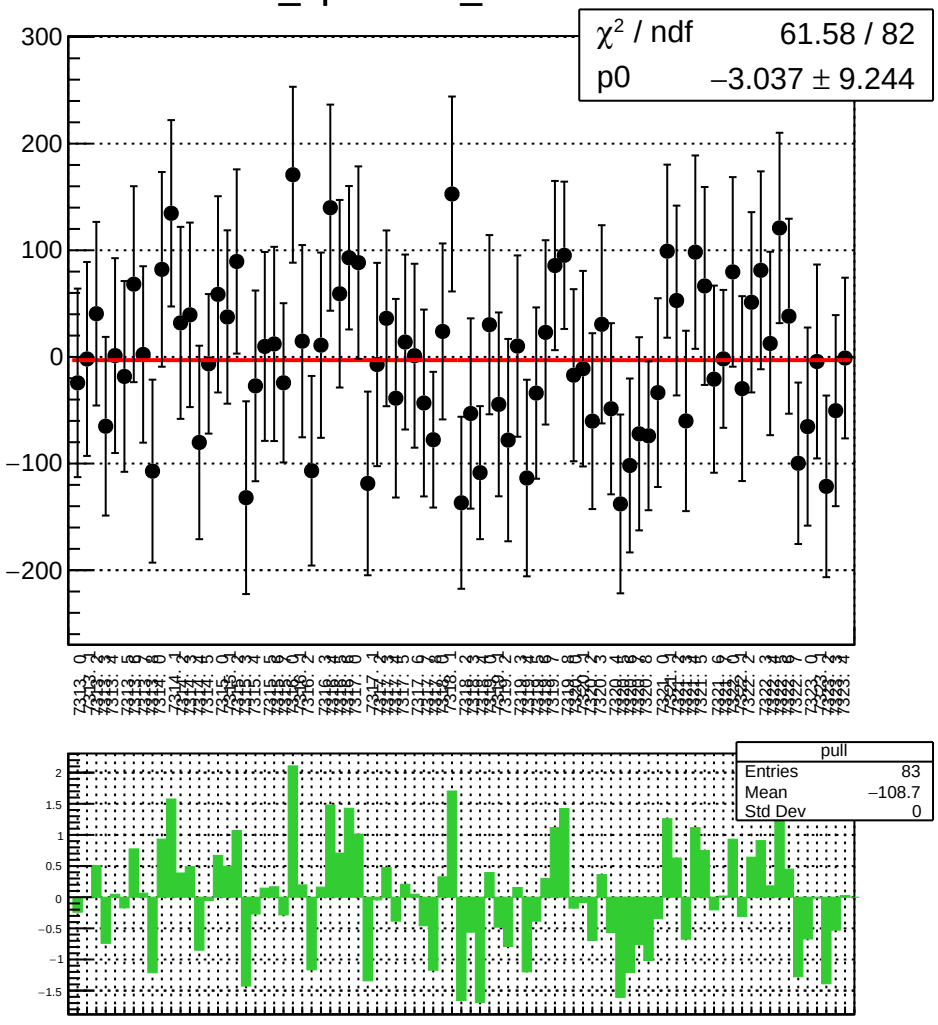

pull1D
Entries 83
Mean 0.01448
Std Dev 0.8717

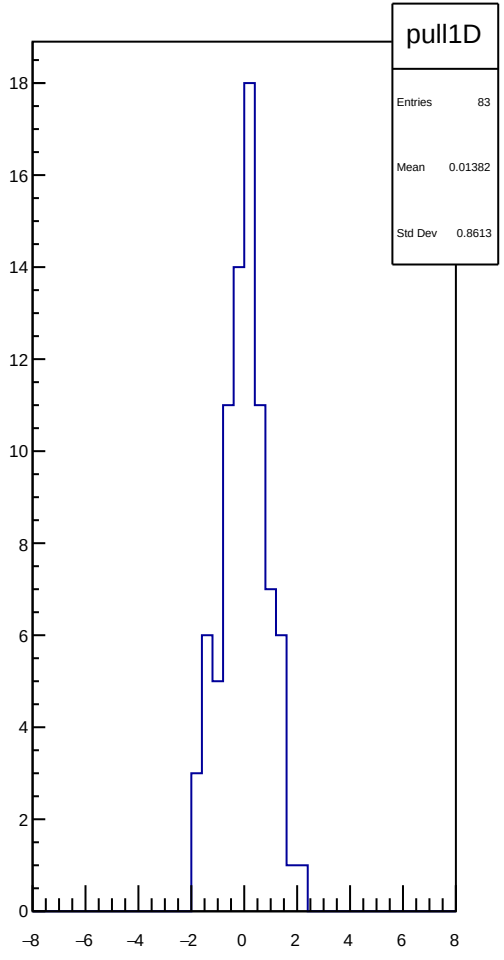

diff_bpm4eX_rms vs run
χ² / ndf 3608 / 82
p0 7860 ± 6.199
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

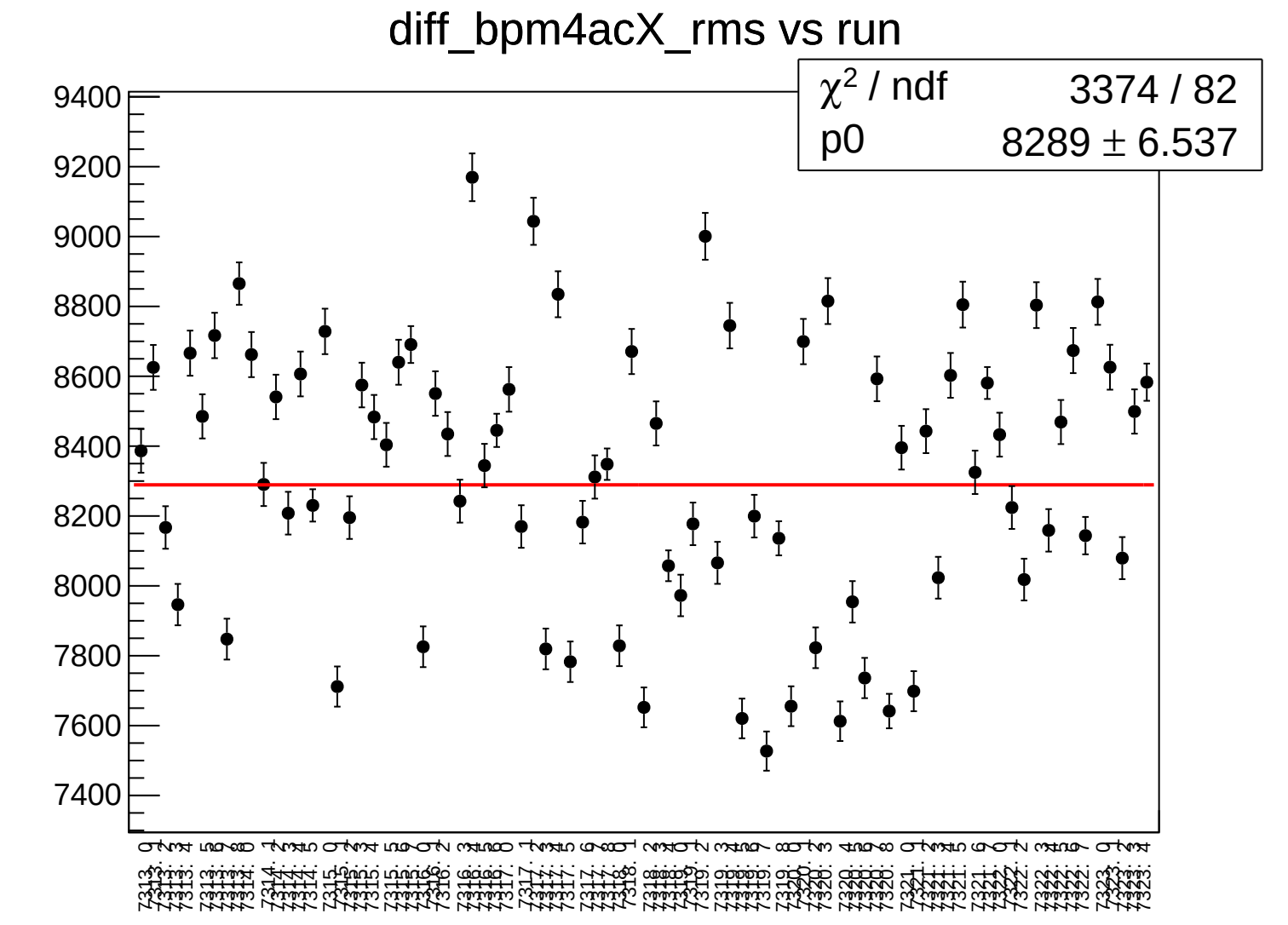

diff_bpm4eY_mean vs run
χ² / ndf 66.98 / 82
p0 −2.942 ± 8.606
pull
Entries 83
Mean 151.1
Std Dev 0

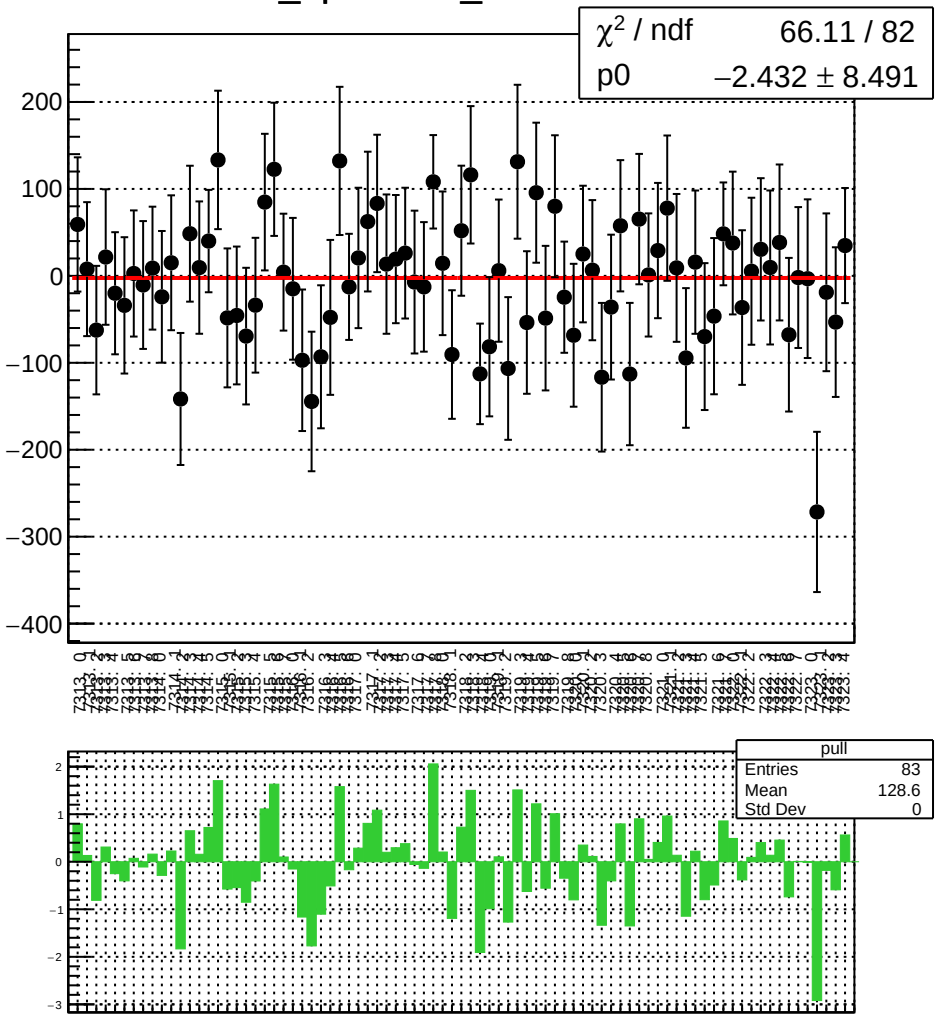

pull1D
Entries 83
Mean −0.02204
Std Dev 0.898

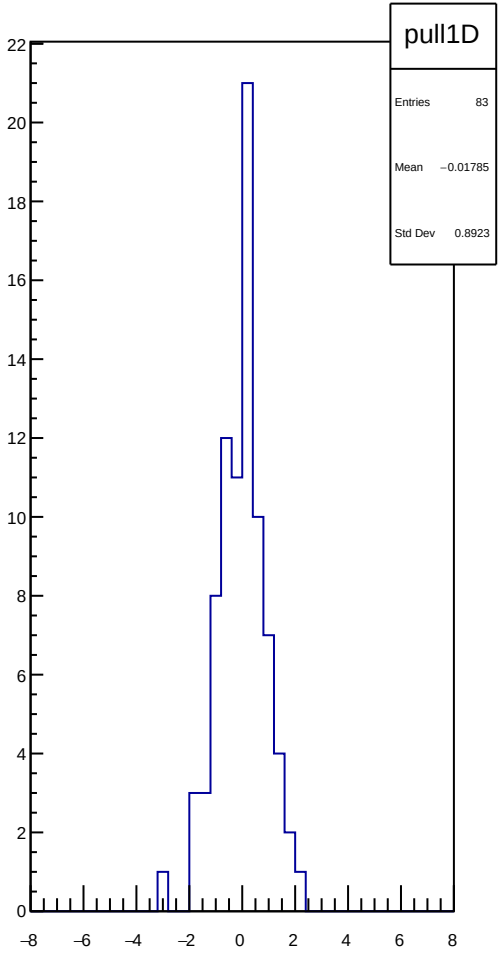

diff_bpm4eY_rms vs run
χ^2 / ndf 6861 / 82
p0 7709 ± 6.086
9000
8500
8000
7500
7000
6500

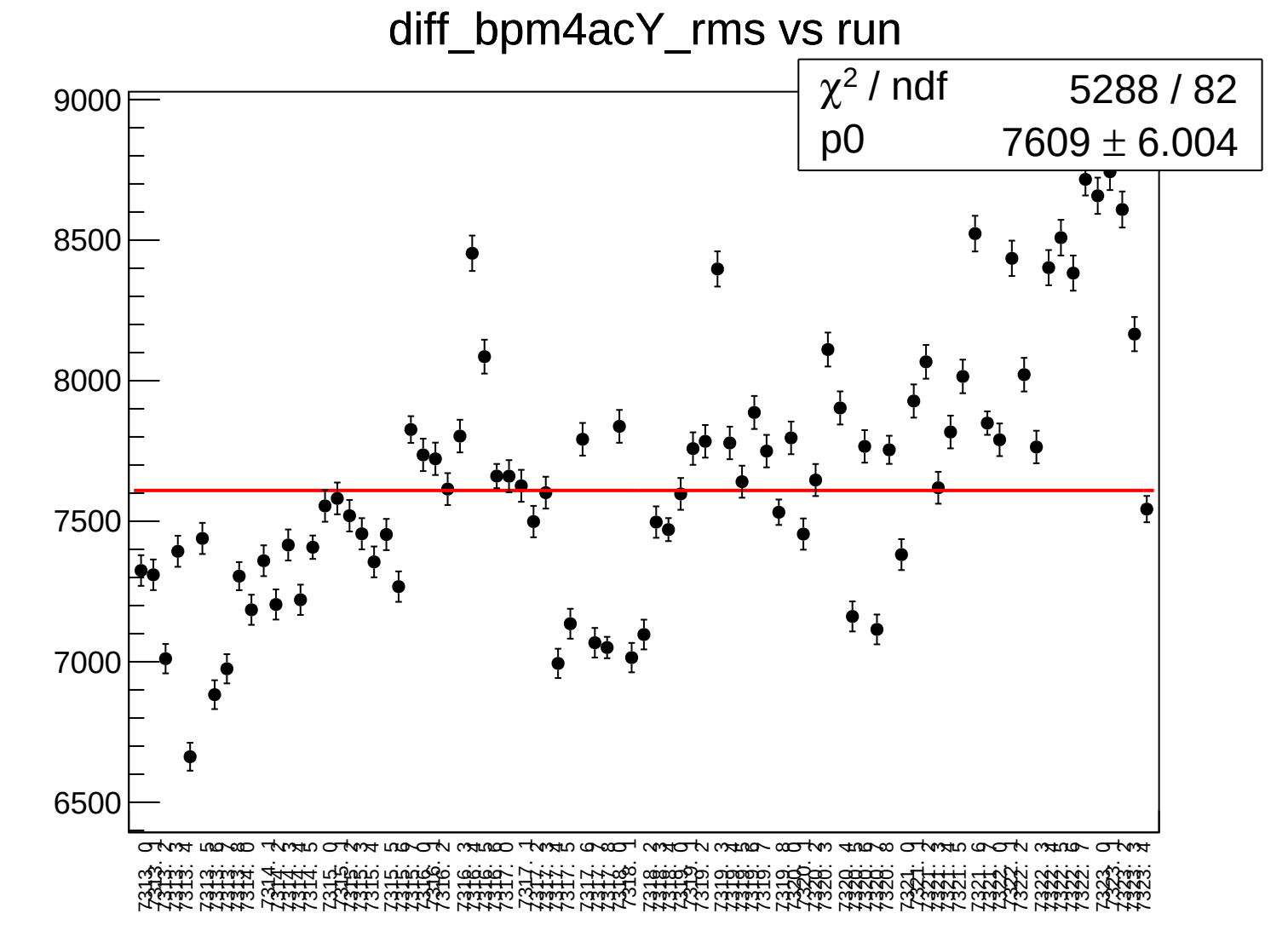

diff_bpm4acX_mean vs run
χ² / ndf 61.58 / 82
p0 −3.037 ± 9.244
pull
Entries 83
Mean −108.7
Std Dev 0

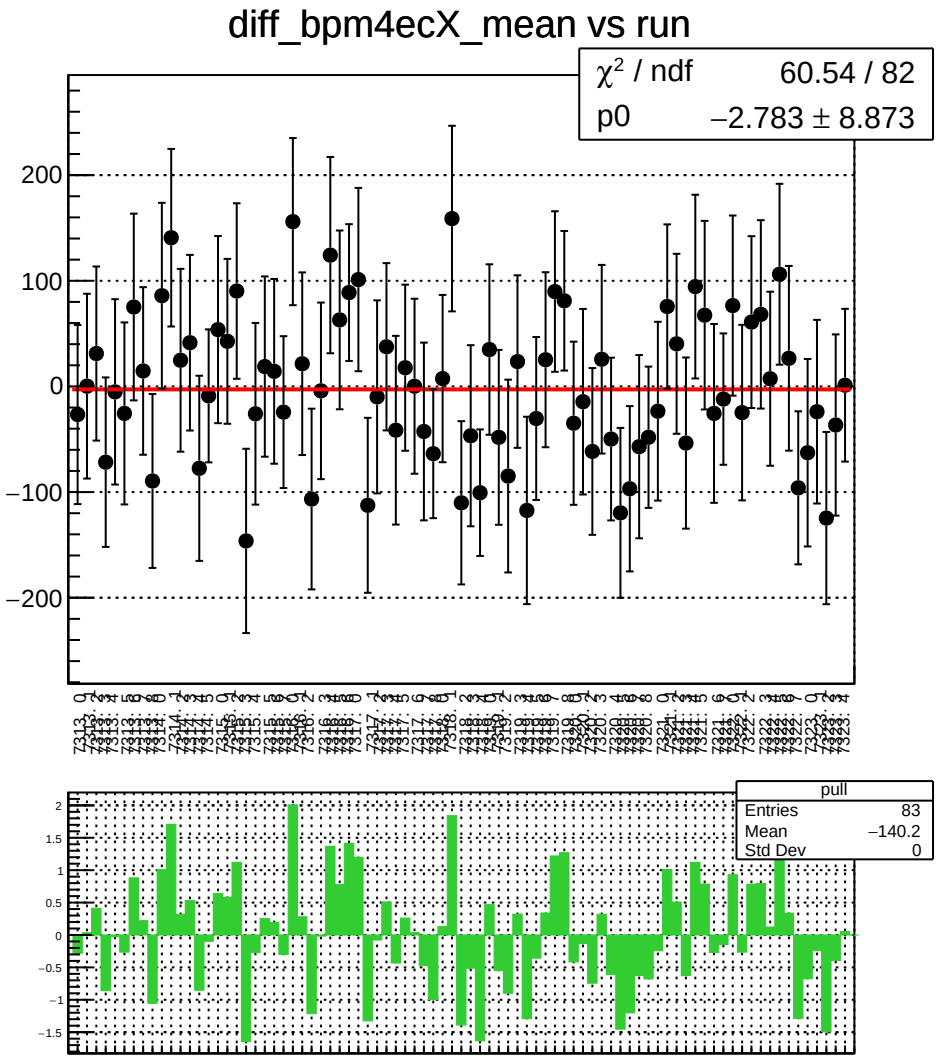

pull1D
Entries 83
Mean 0.01382
Std Dev 0.8613

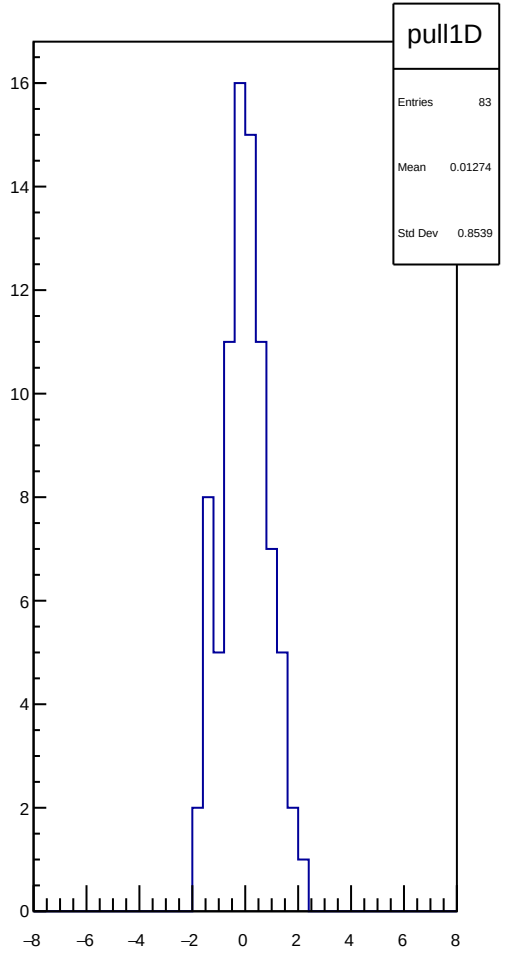

diff_bpm4acX_rms vs run
χ² / ndf 3374 / 82
p0 8289 ± 6.537
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

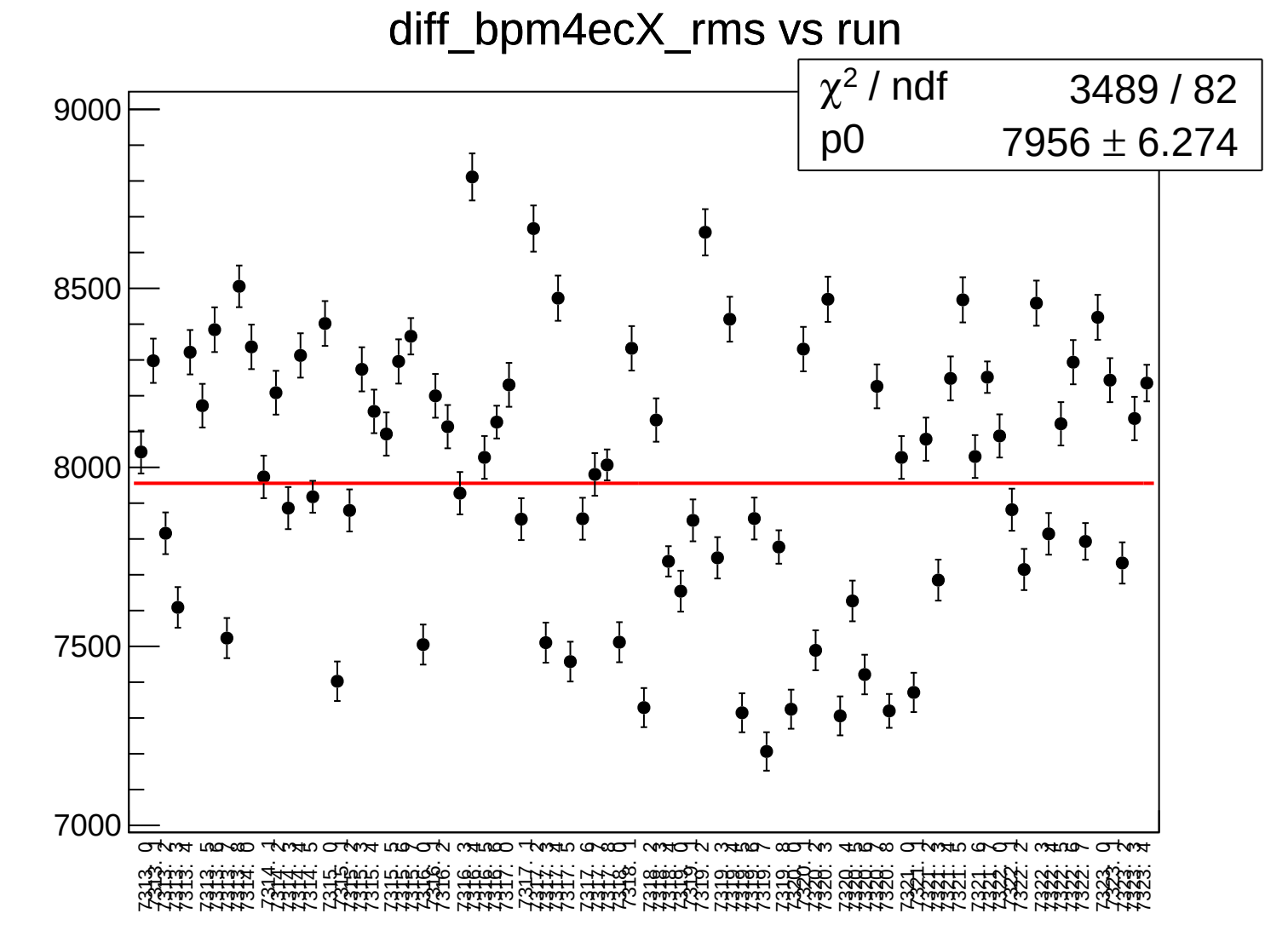

diff_bpm4acY_mean vs run
χ² / ndf 66.11 / 82
p0 −2.432 ± 8.491
pull
Entries 83
Mean 128.6
Std Dev 0

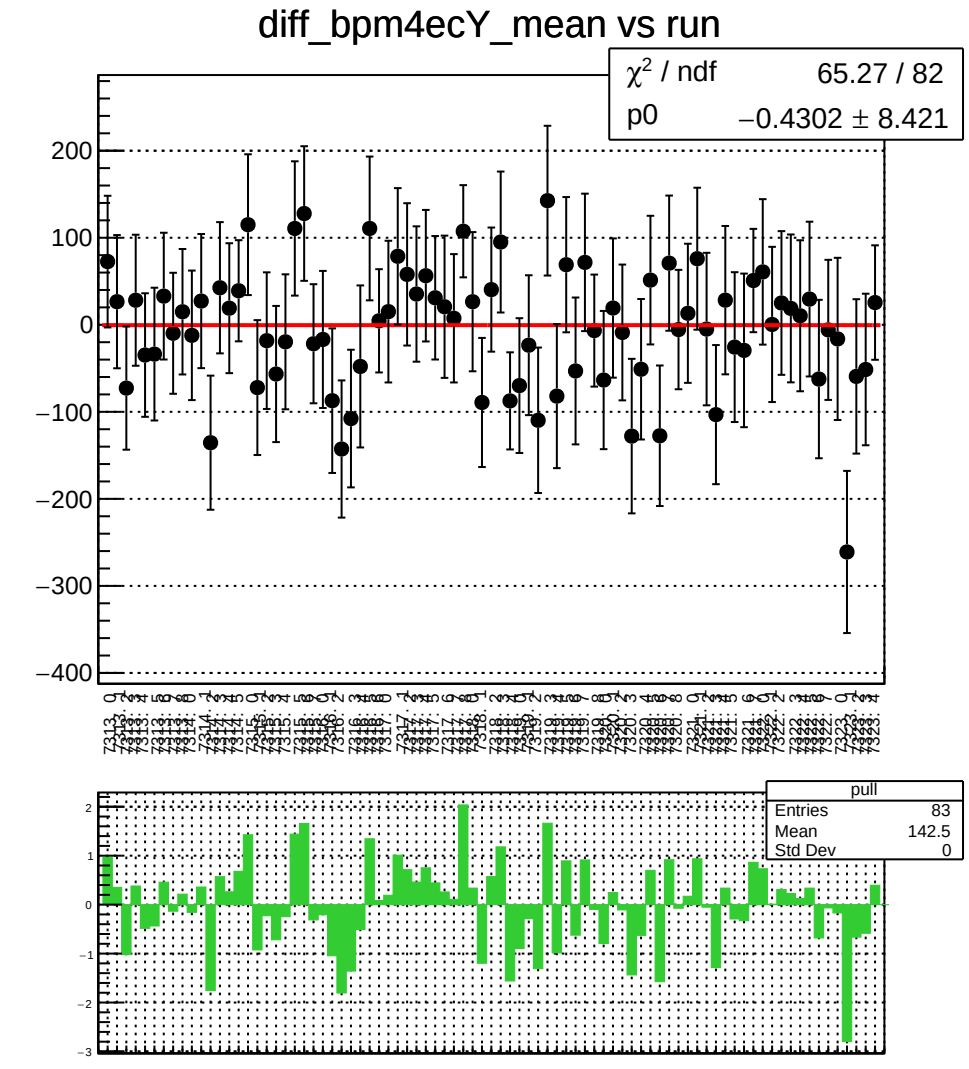

pull1D
Entries 83
Mean −0.01785
Std Dev 0.8923

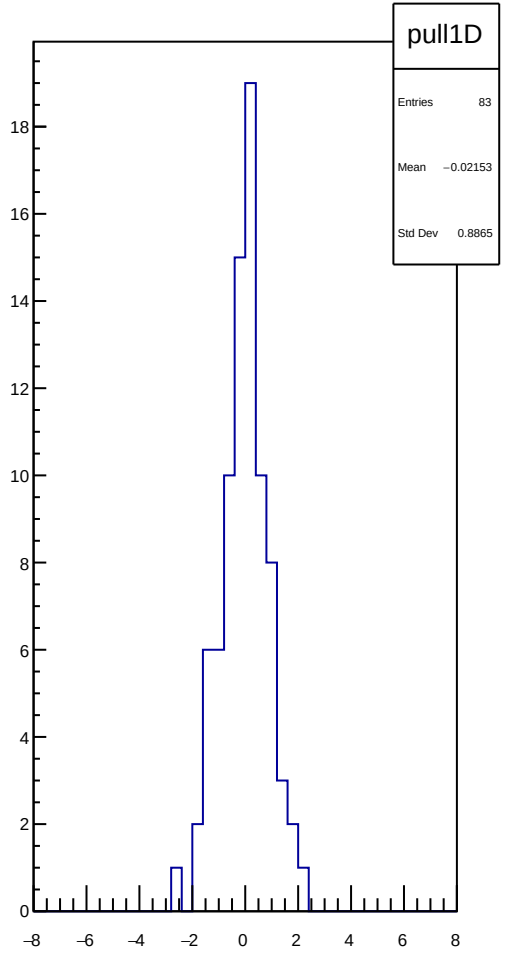

diff_bpm4acY_rms vs run
χ² / ndf 5288 / 82
p0 7609 ± 6.004
9000
8500
8000
7500
7000
6500

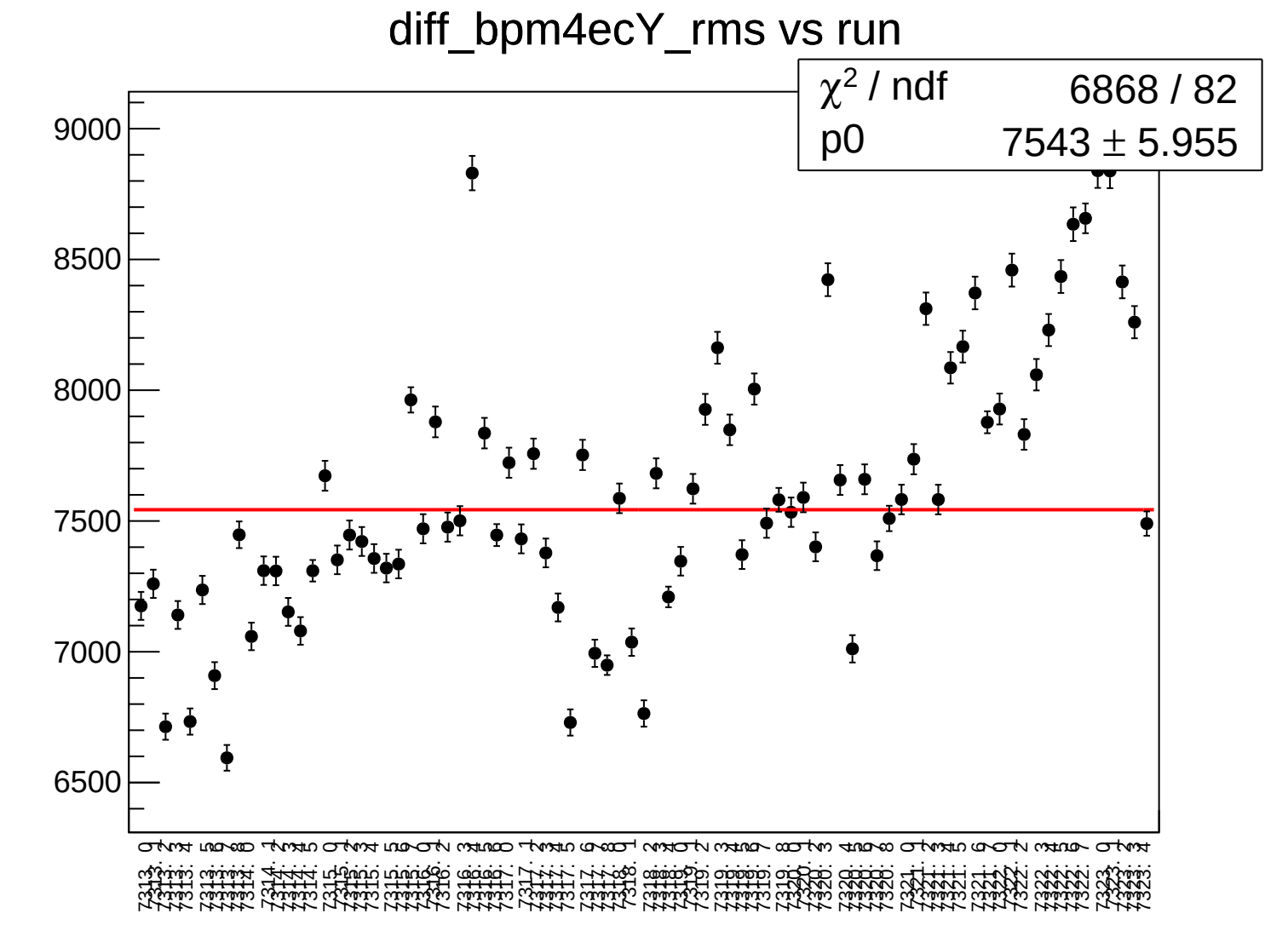

diff_bpm4ecX_mean vs run
χ^2 / ndf 60.54 / 82
p0 −2.783 ± 8.873
200
100
0
−100
−200
pull
Entries 83
Mean −140.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

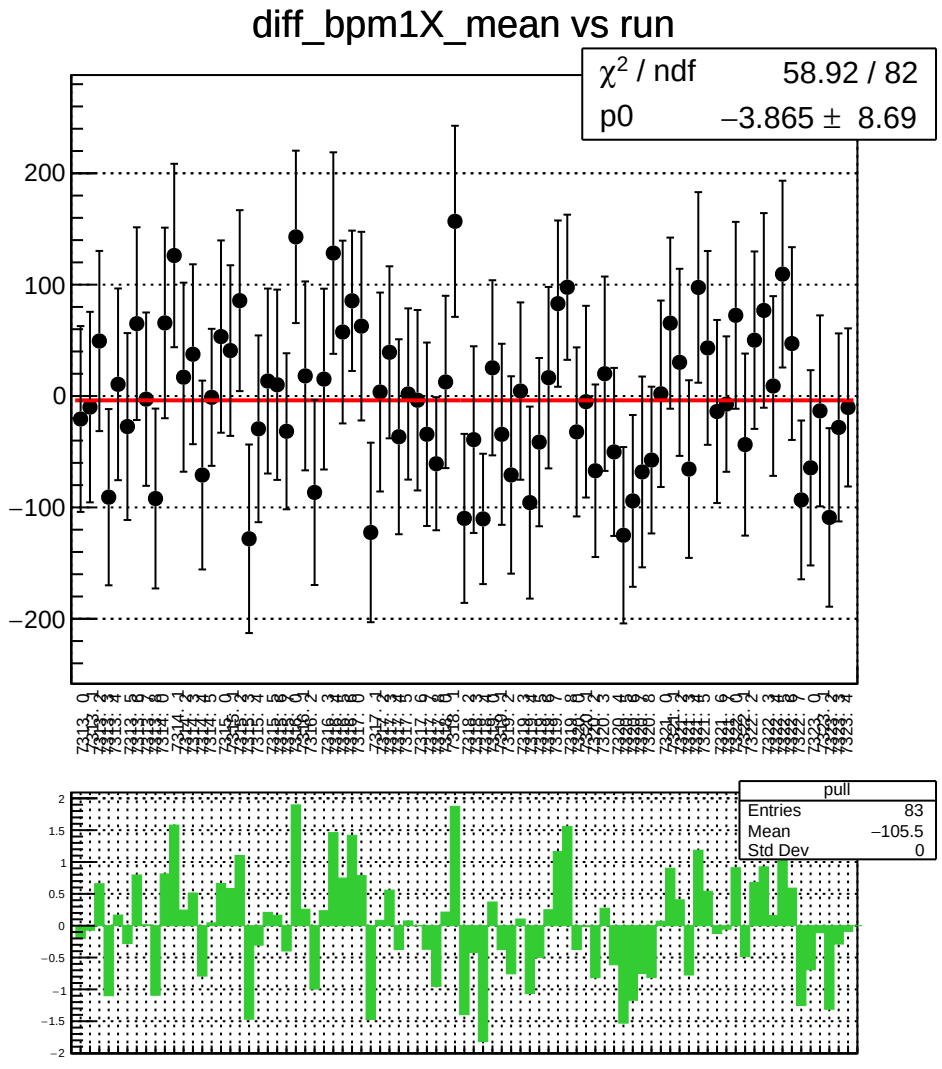

pull1D
Entries 83
Mean 0.01274
Std Dev 0.8539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

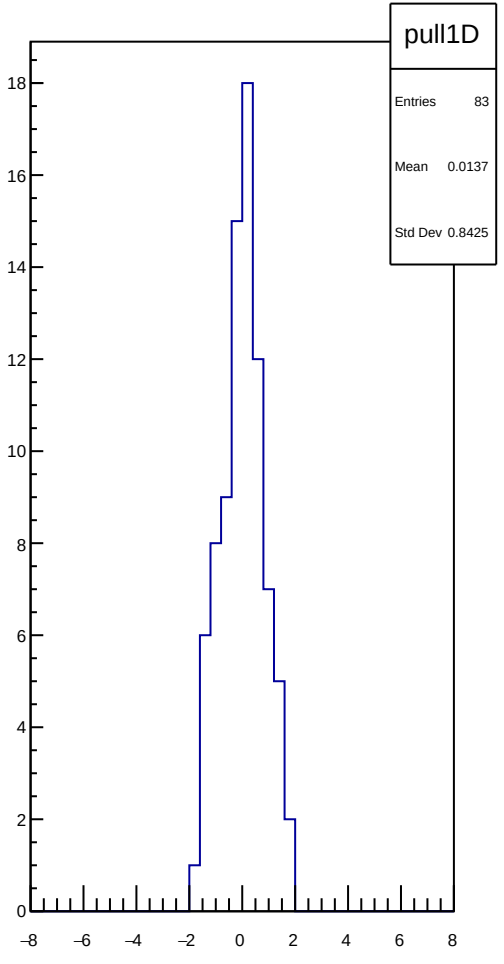

diff_bpm4ecX_rms vs run
χ² / ndf 3489 / 82
p0 7956 ± 6.274
9000
8500
8000
7500
7000

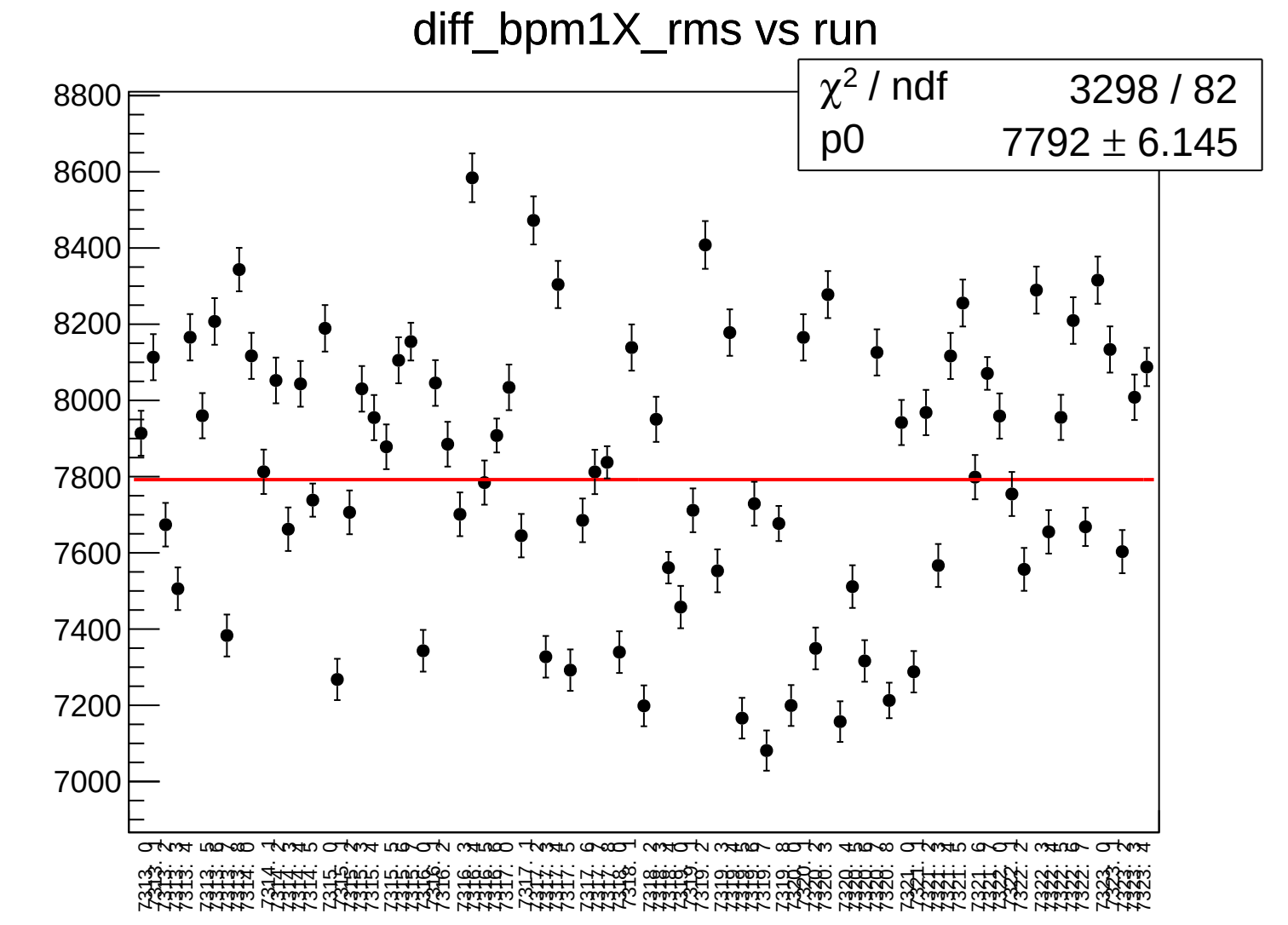

diff_bpm4ecY_mean vs run
χ² / ndf 65.27 / 82
p0 −0.4302 ± 8.421
pull
Entries 83
Mean 142.5
Std Dev 0

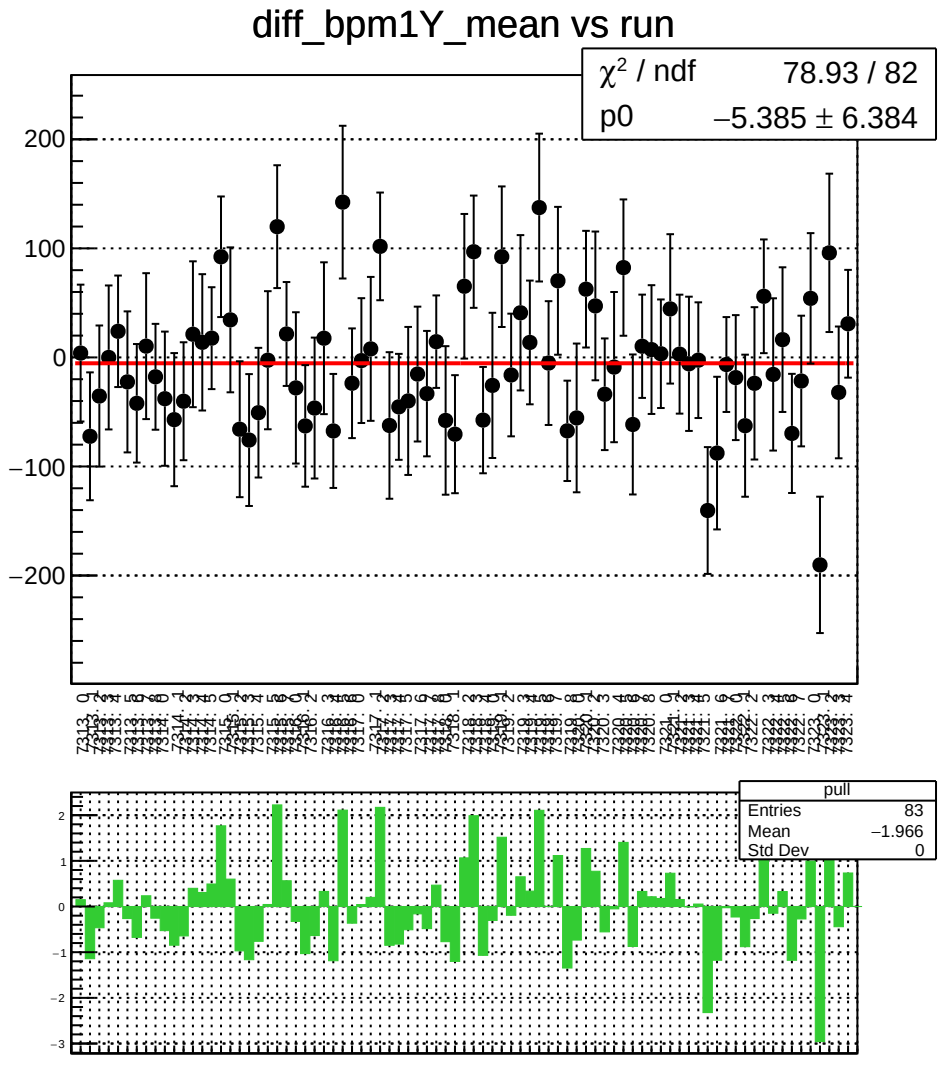

pull1D
Entries 83
Mean −0.02153
Std Dev 0.8865

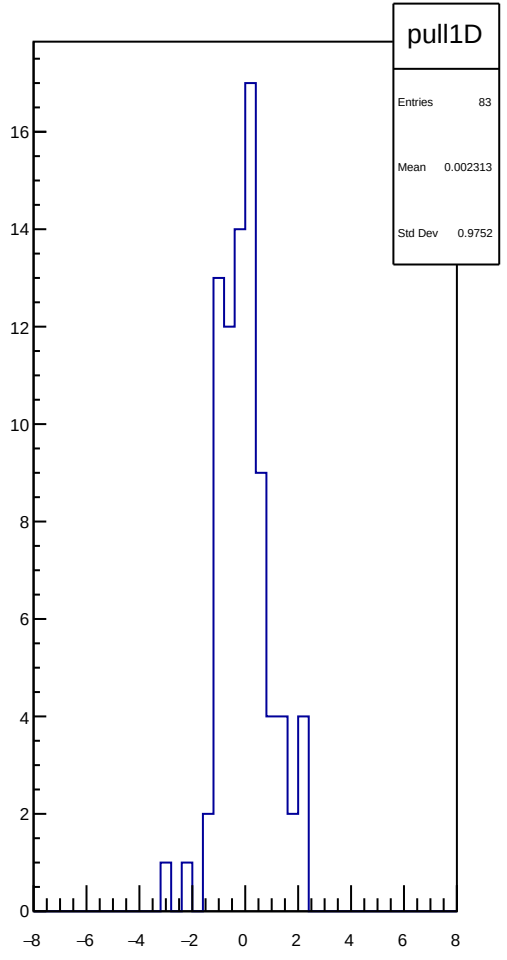

diff_bpm4ecY_rms vs run
χ² / ndf 6868 / 82
p0 7543 ± 5.955
9000
8500
8000
7500
7000
6500

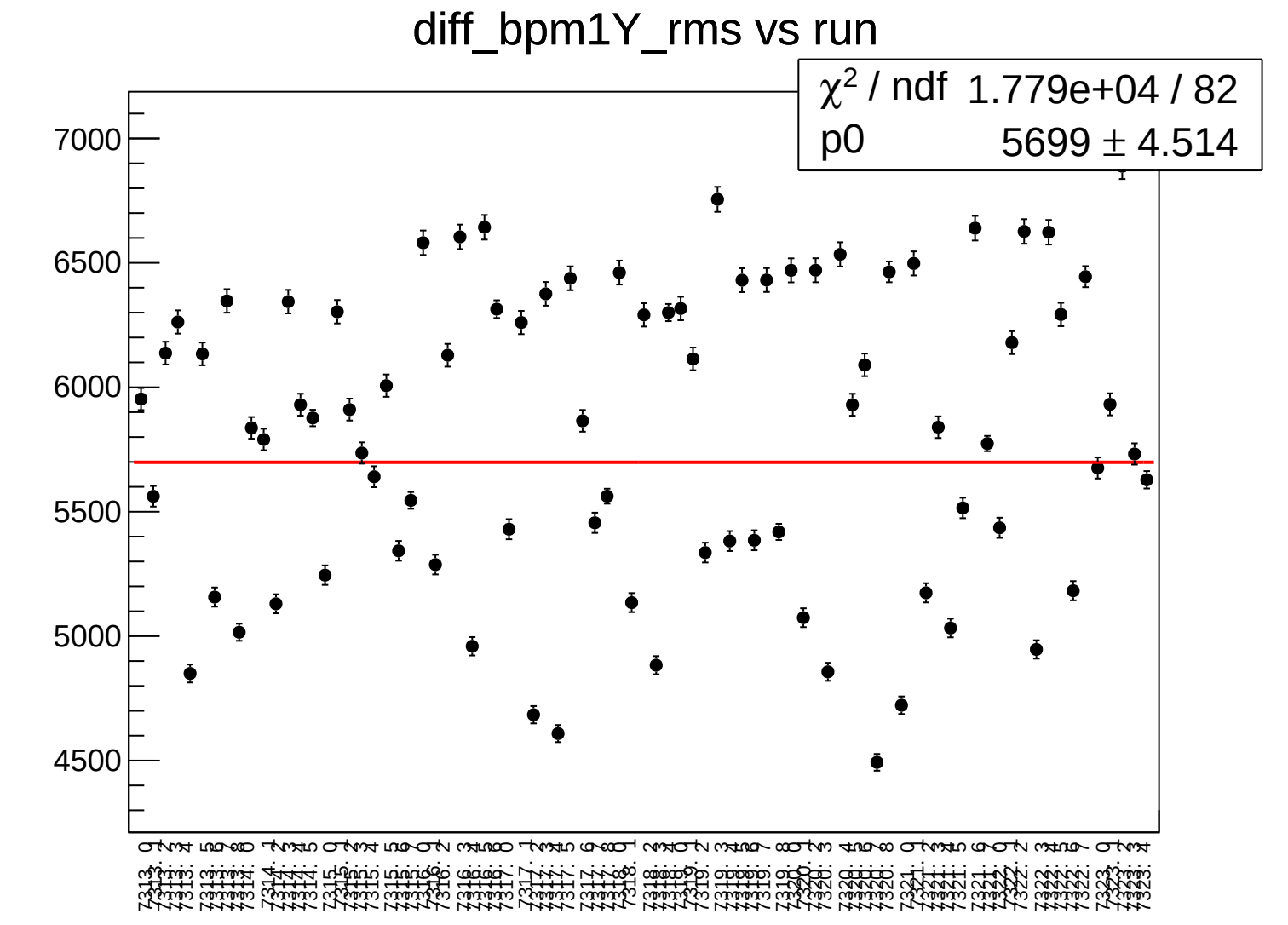

diff_bpm1X_mean vs run
χ² / ndf 58.92 / 82
p0 −3.865 ± 8.69
200
100
0
−100
−200
pull
Entries 83
Mean −105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

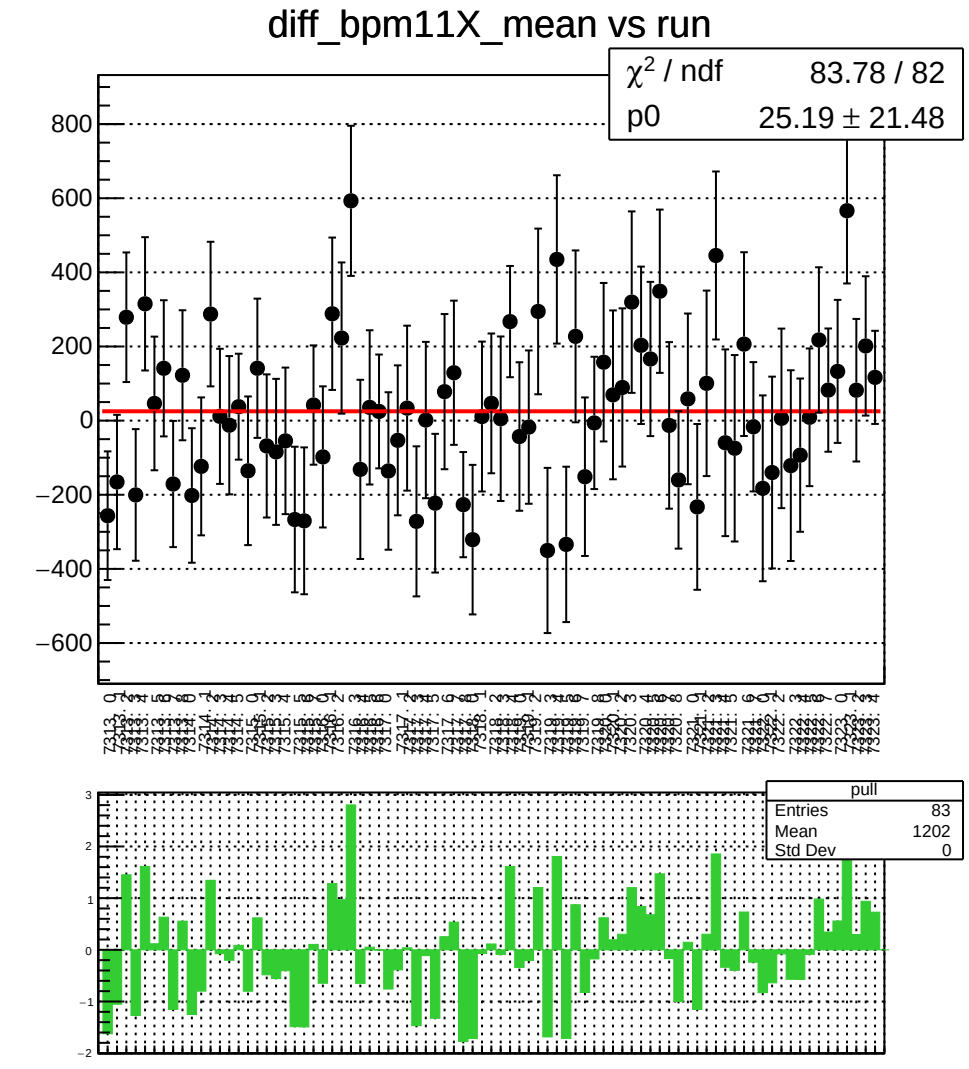

pull1D
Entries 83
Mean 0.0137
Std Dev 0.8425
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

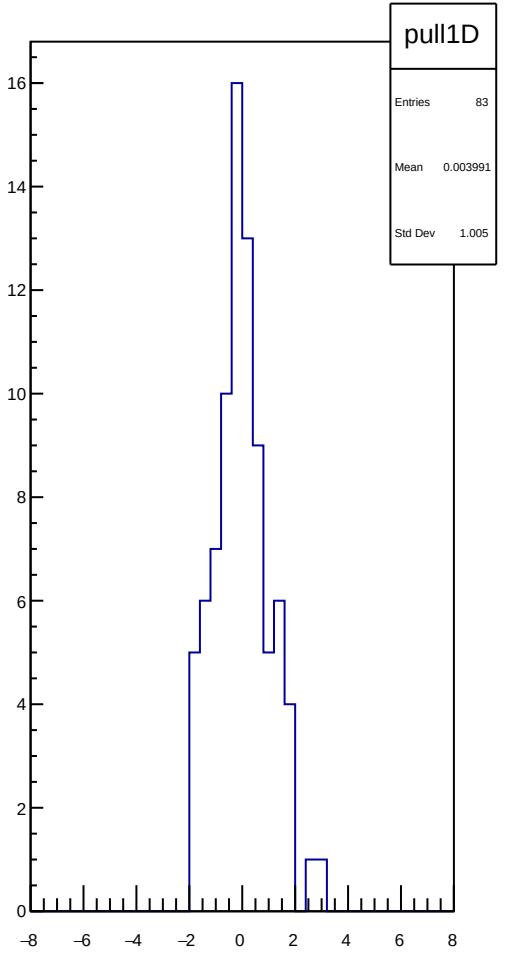

diff_bpm1X_rms vs run
χ² / ndf 3298 / 82
p0 7792 ± 6.145
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

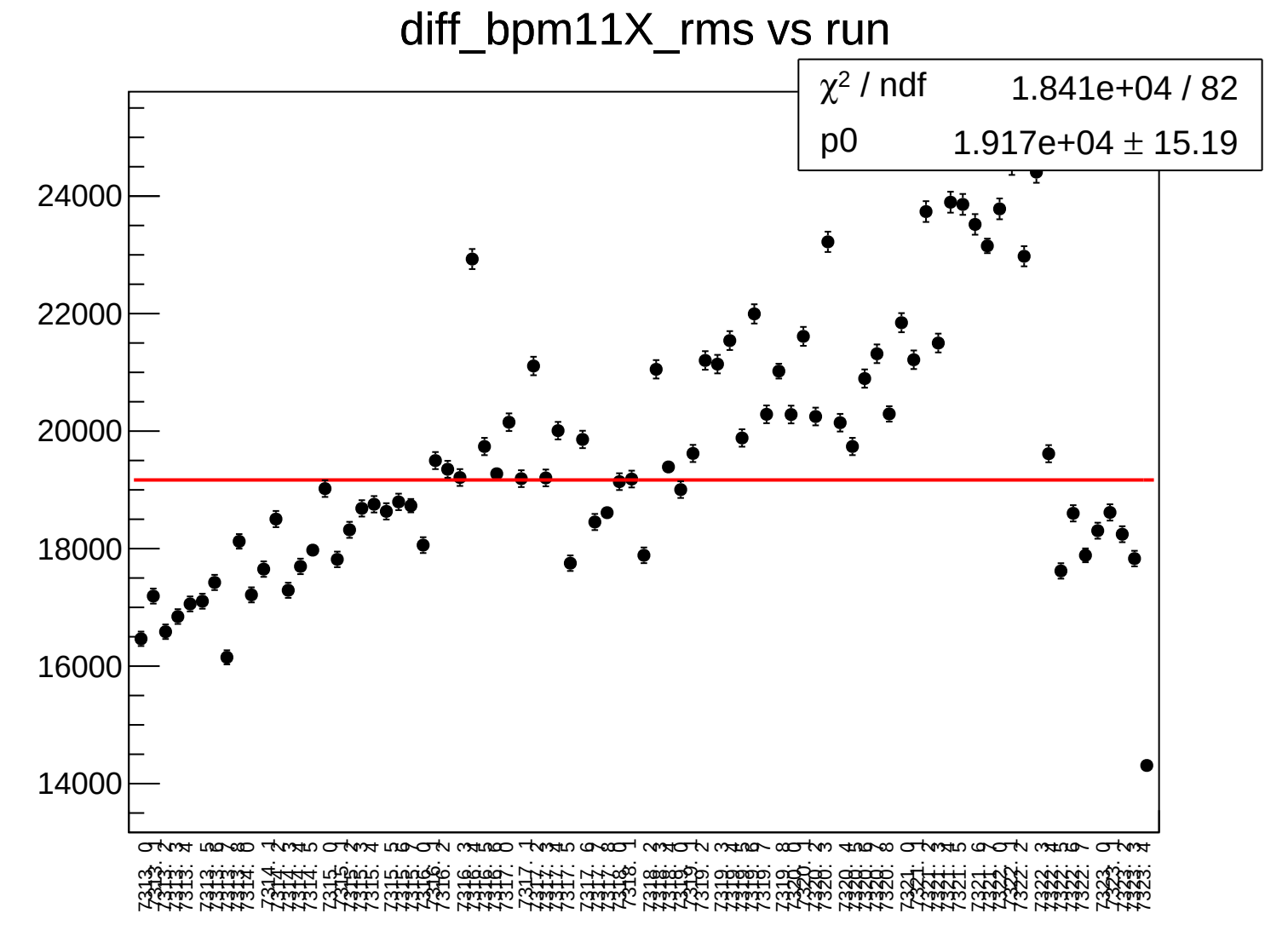

diff_bpm1Y_mean vs run
χ² / ndf 78.93 / 82
p0 −5.385 ± 6.384
200
100
0
−100
−200
pull
Entries 83
Mean −1.966
Std Dev 0
2
1
0
−1
−2
−3

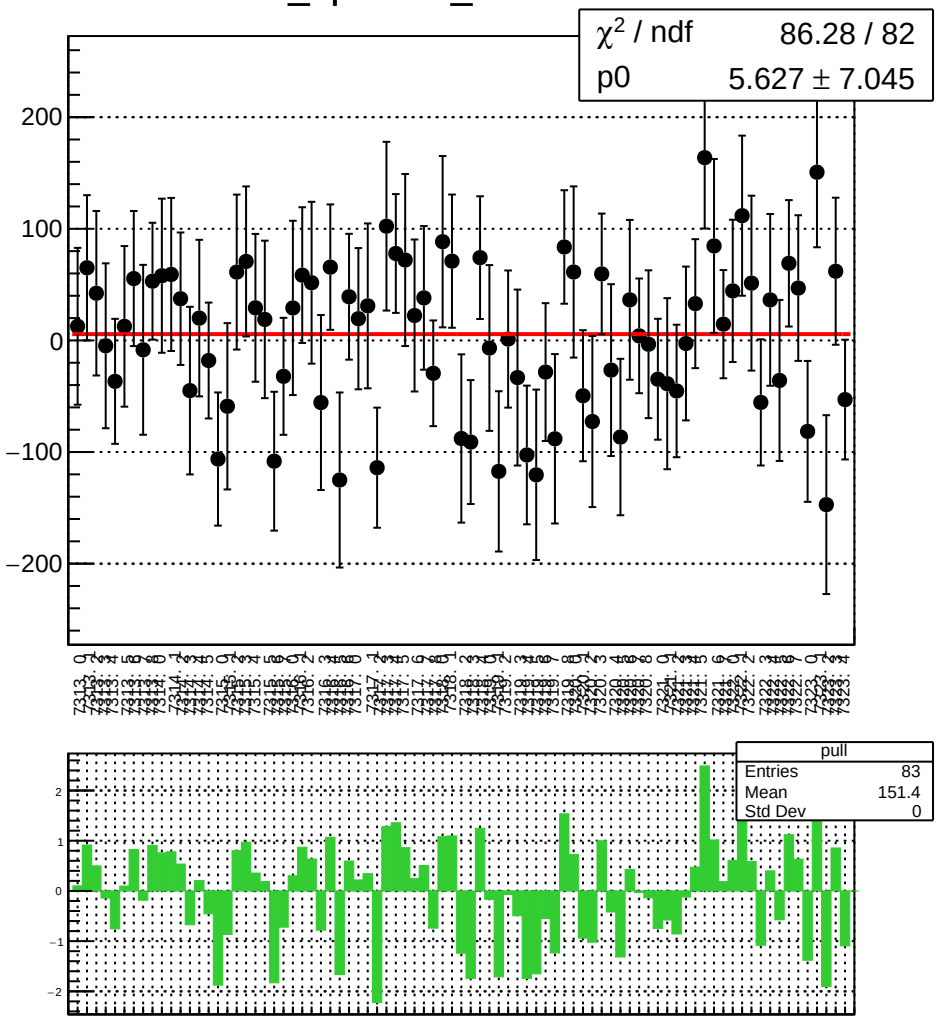

pull1D
Entries 83
Mean 0.002313
Std Dev 0.9752
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

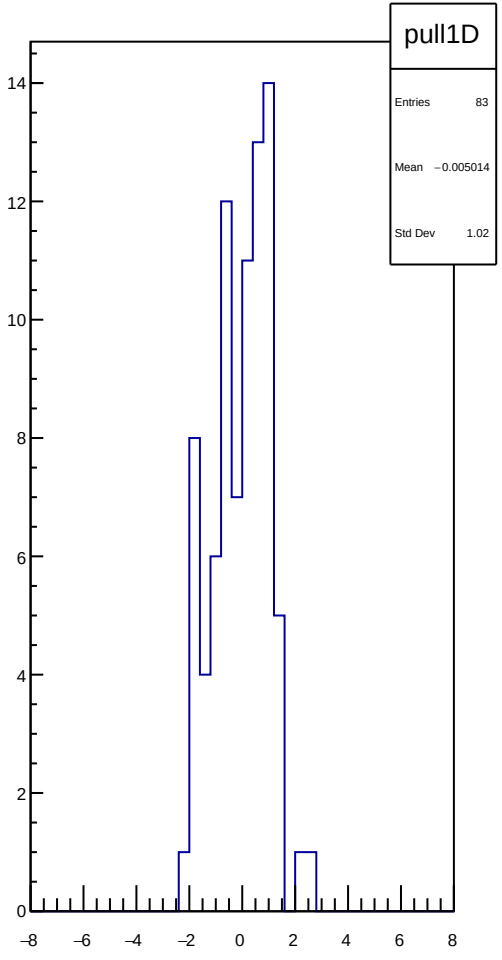

diff_bpm1Y_rms vs run
χ² / ndf 1.779e+04 / 82
p0 5699 ± 4.514
7000
6500
6000
5500
5000
4500

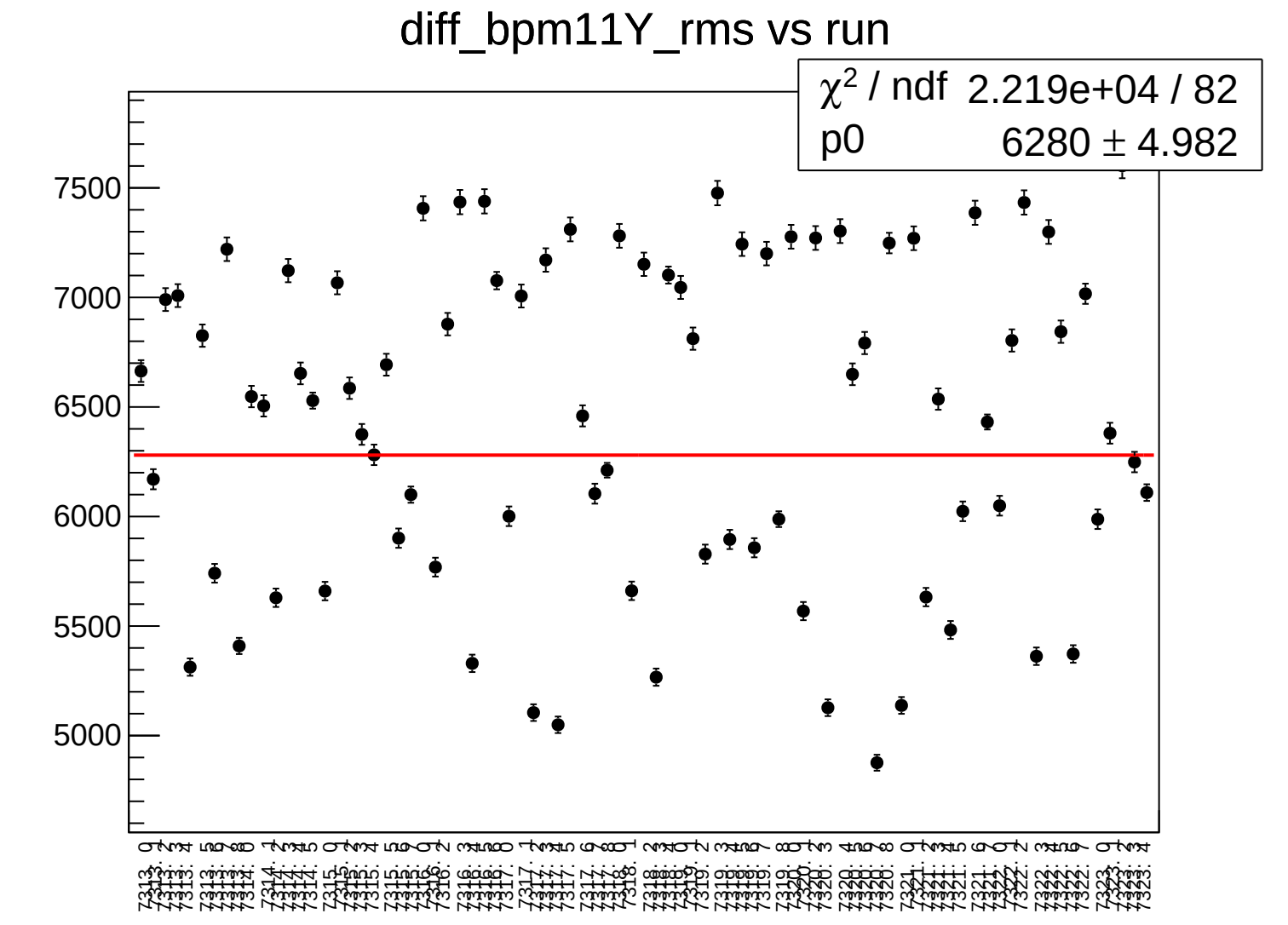

diff_bpm11X_mean vs run
χ^2 / ndf 83.78 / 82
p0 25.19 ± 21.48
pull
Entries 83
Mean 1202
Std Dev 0

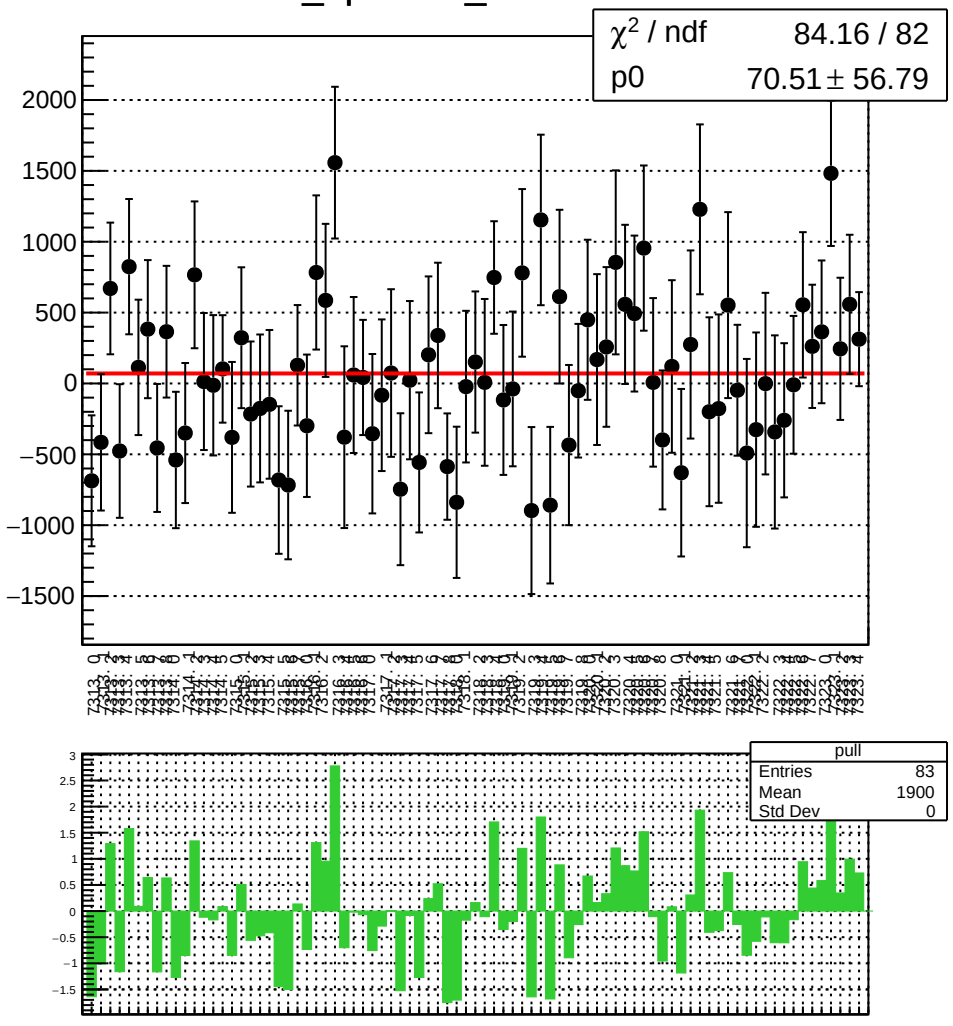

pull1D
Entries 83
Mean 0.003991
Std Dev 1.005

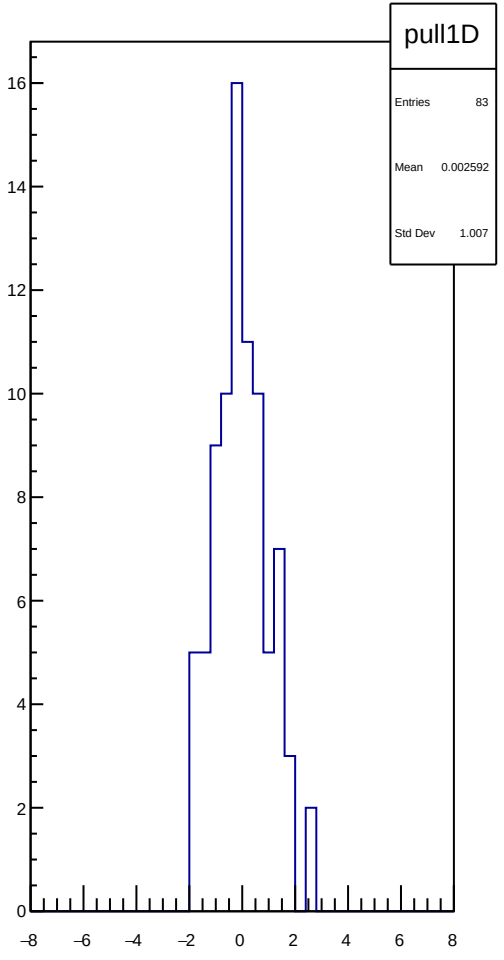

diff_bpm11X_rms vs run
χ² / ndf 1.841e+04 / 82
p0 1.917e+04 ± 15.19
24000
22000
20000
18000
16000
14000

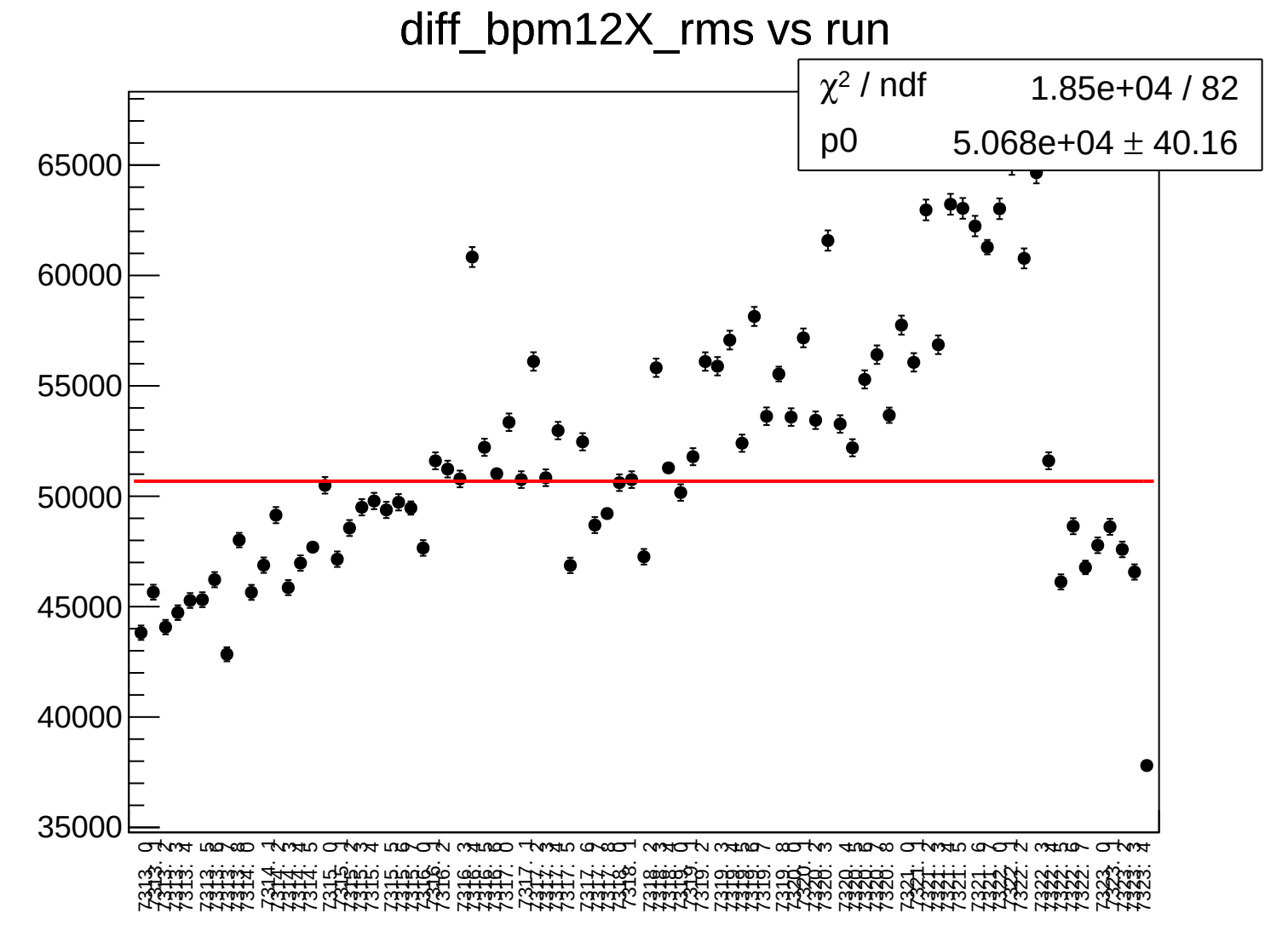

diff_bpm11Y_mean vs run
χ² / ndf 86.28 / 82
p0 5.627 ± 7.045
pull
Entries 83
Mean 151.4
Std Dev 0

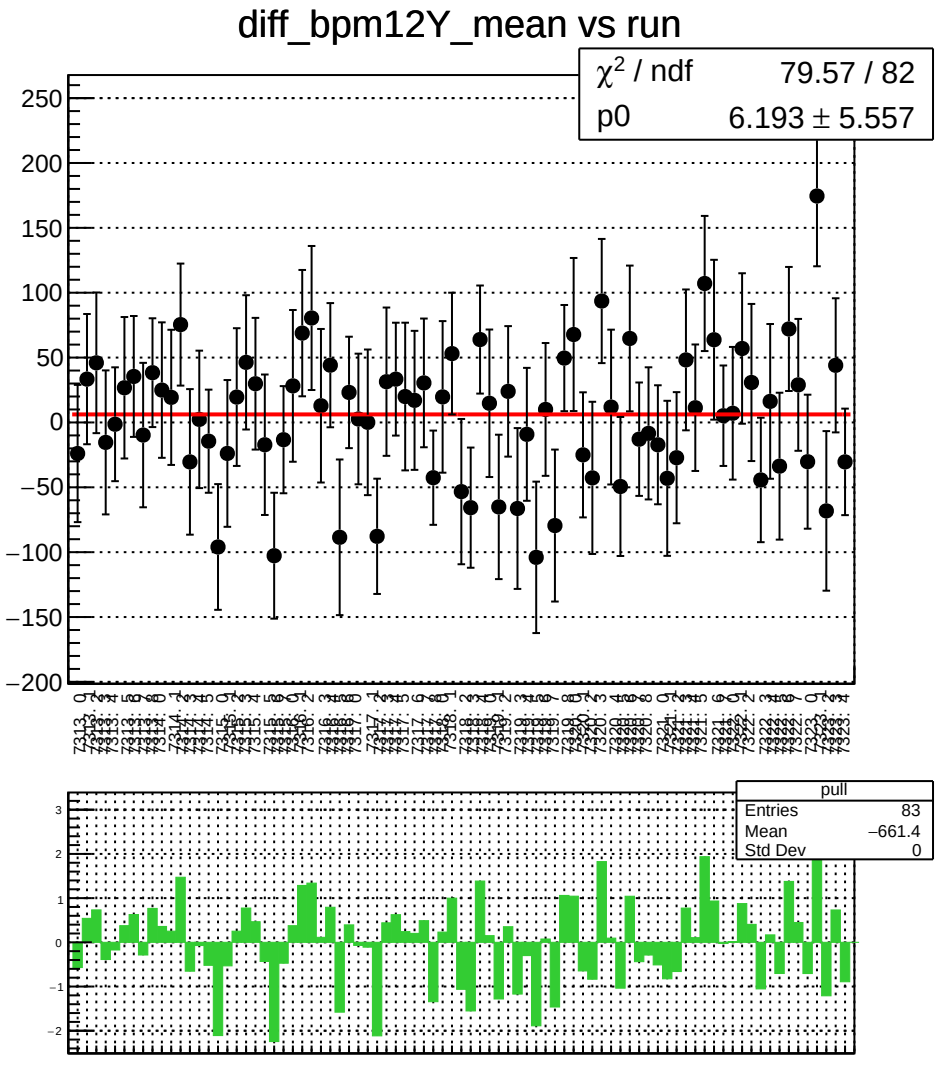

pull1D
Entries 83
Mean −0.005014
Std Dev 1.02

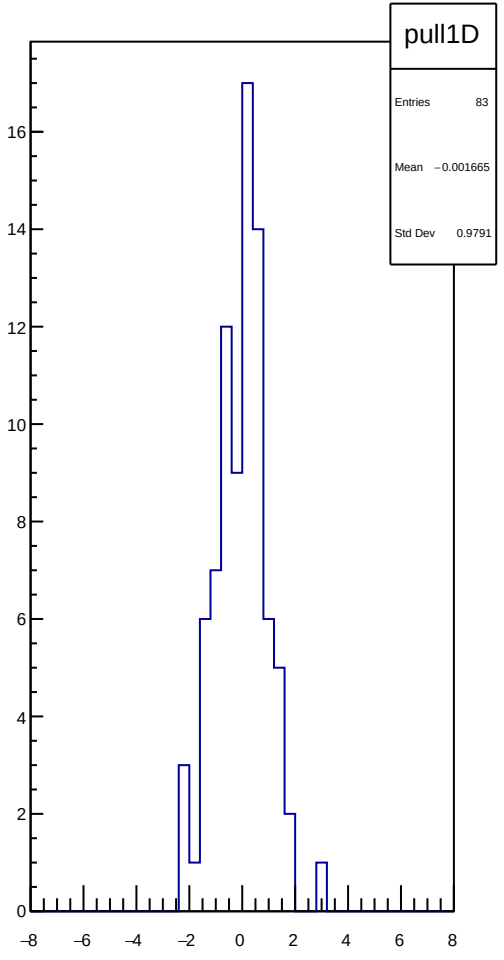

diff_bpm11Y_rms vs run
χ² / ndf 2.219e+04 / 82
p0 6280 ± 4.982
7500
7000
6500
6000
5500
5000

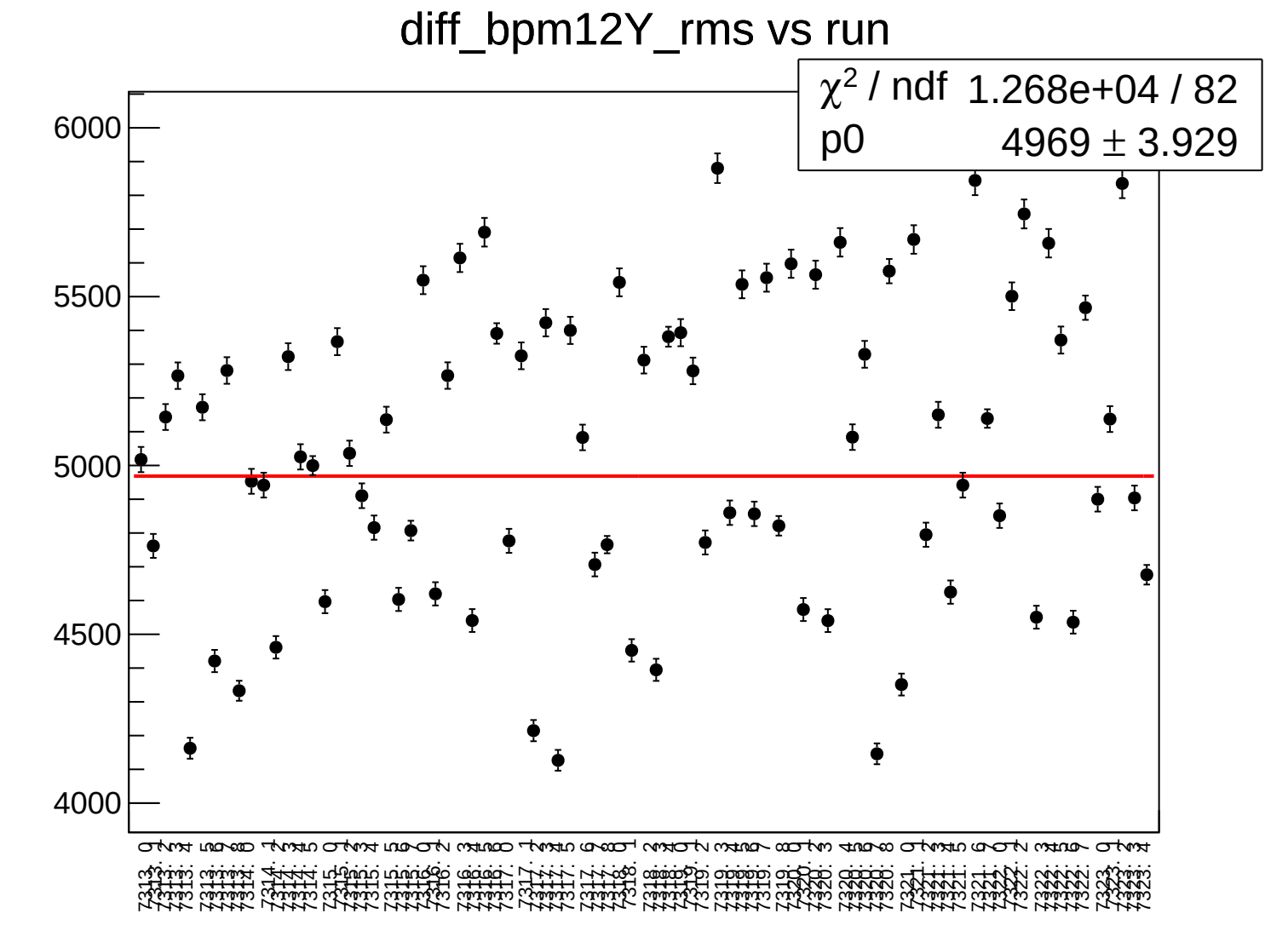

diff_bpm12X_mean vs run
χ^2 / ndf 84.16 / 82
p0 70.51 ± 56.79
pull
Entries 83
Mean 1900
Std Dev 0

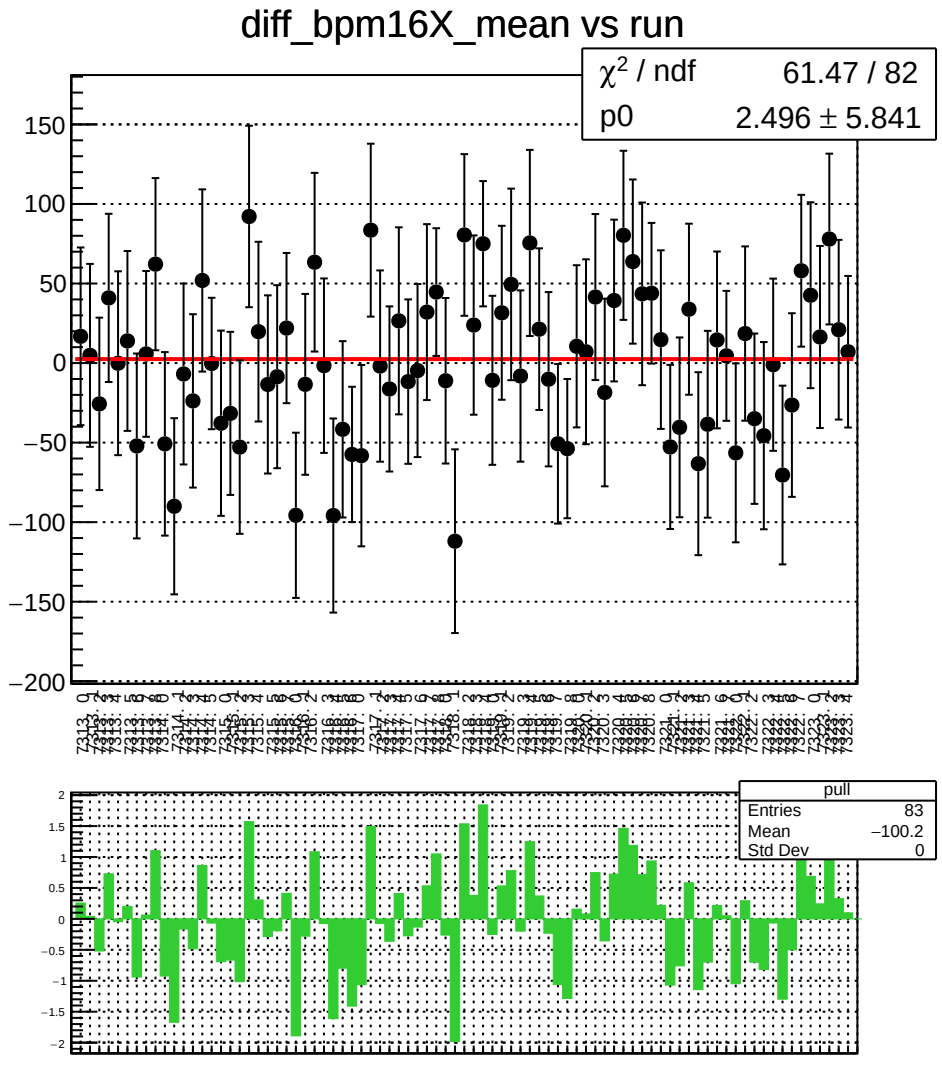

pull1D
Entries 83
Mean 0.002592
Std Dev 1.007

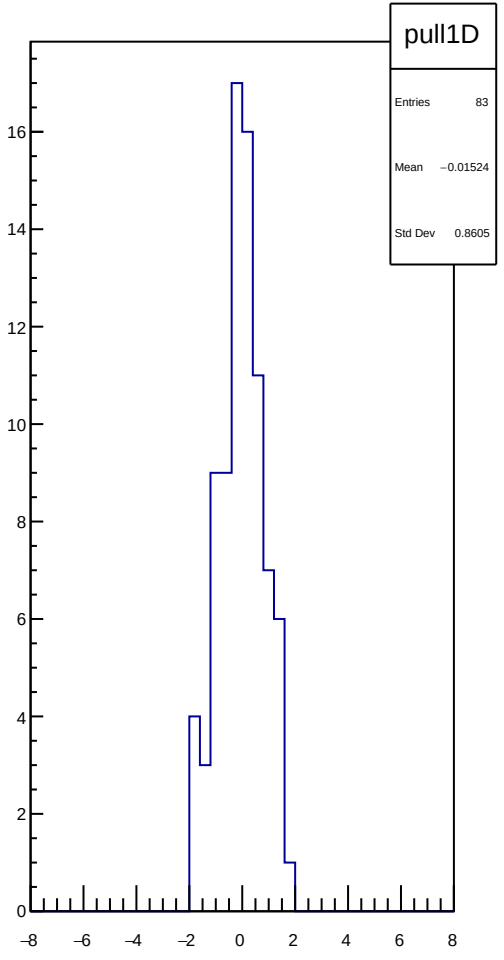

diff_bpm12X_rms vs run
χ² / ndf 1.85e+04 / 82
p0 5.068e+04 ± 40.16
65000
60000
55000
50000
45000
40000
35000

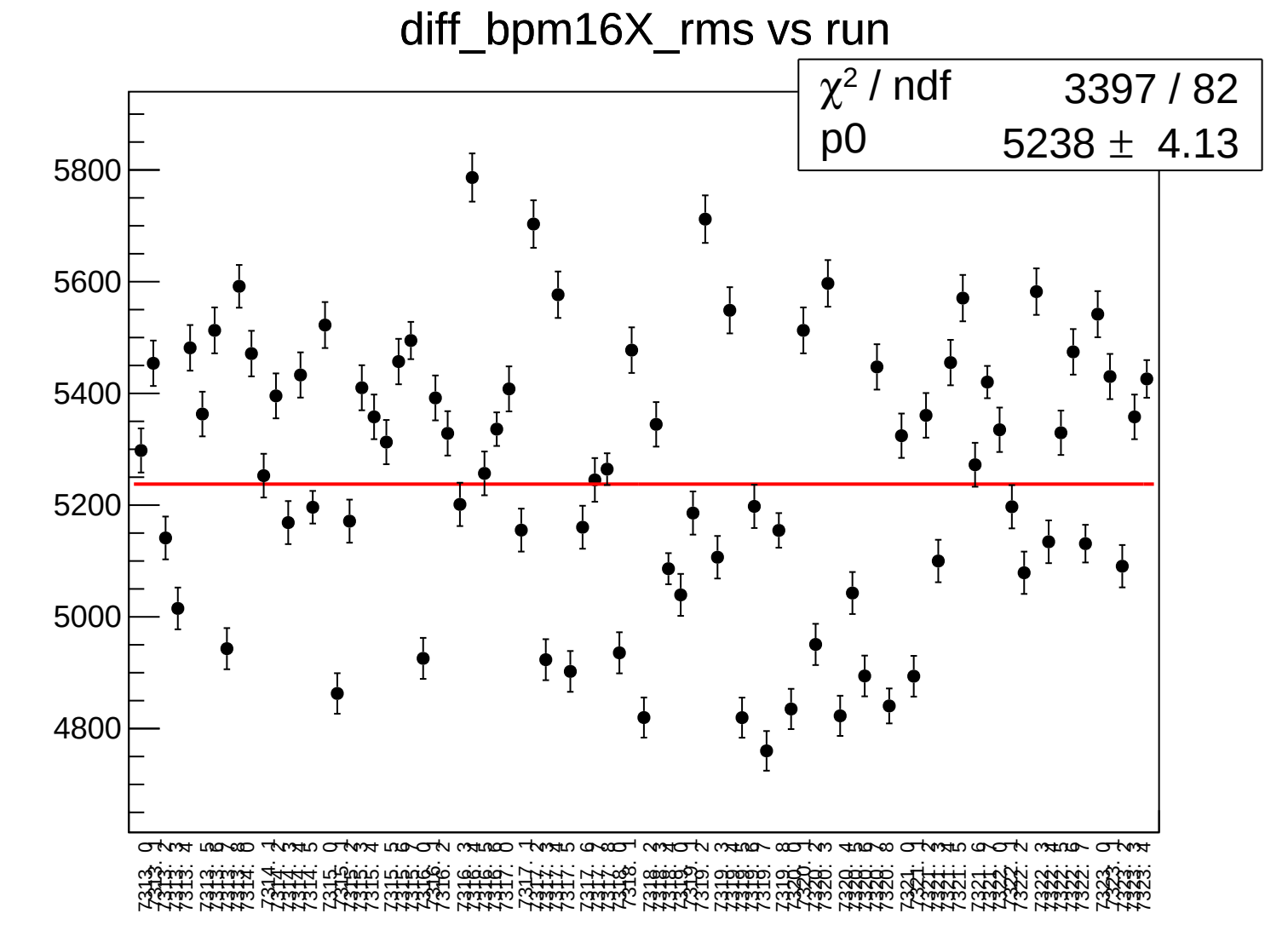

diff_bpm12Y_mean vs run
χ² / ndf 79.57 / 82
p0 6.193 ± 5.557
pull
Entries 83
Mean −661.4
Std Dev 0

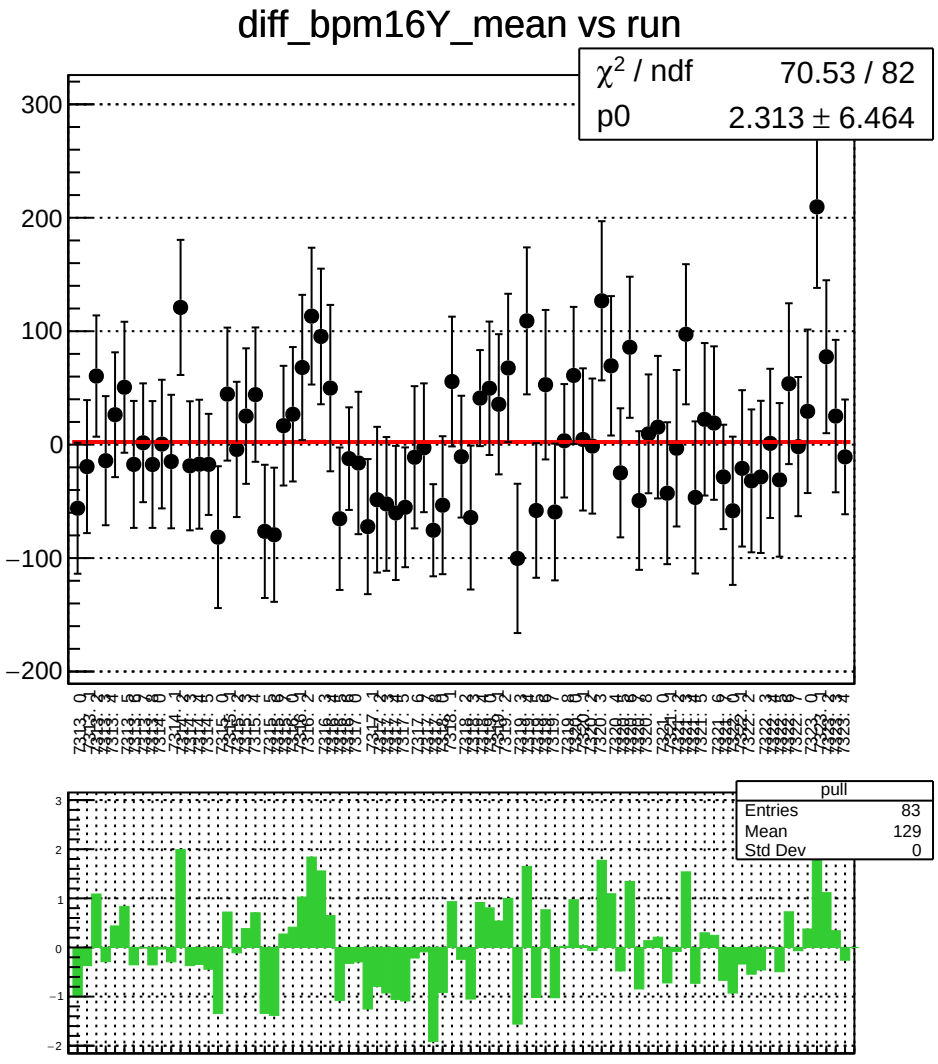

pull1D
Entries 83
Mean −0.001665
Std Dev 0.9791

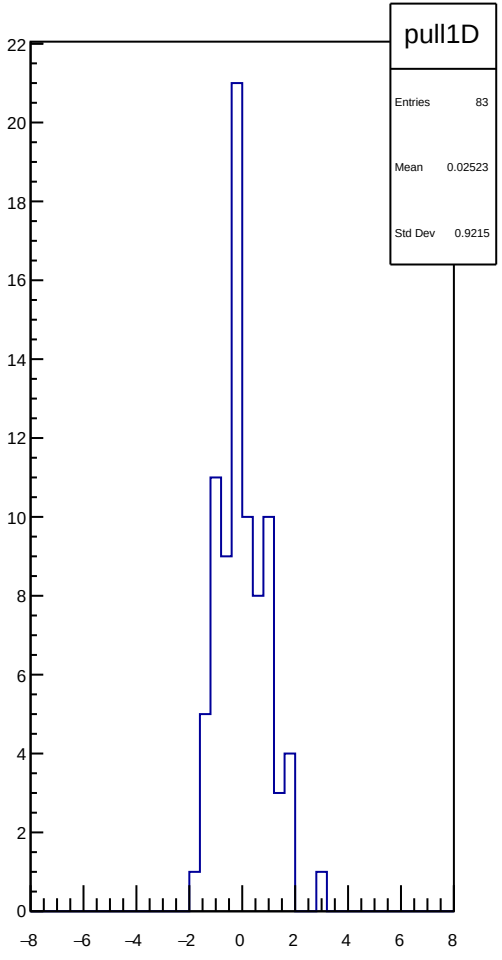

diff_bpm12Y_rms vs run
χ² / ndf 1.268e+04 / 82
p0 4969 ± 3.929
6000
5500
5000
4500
4000

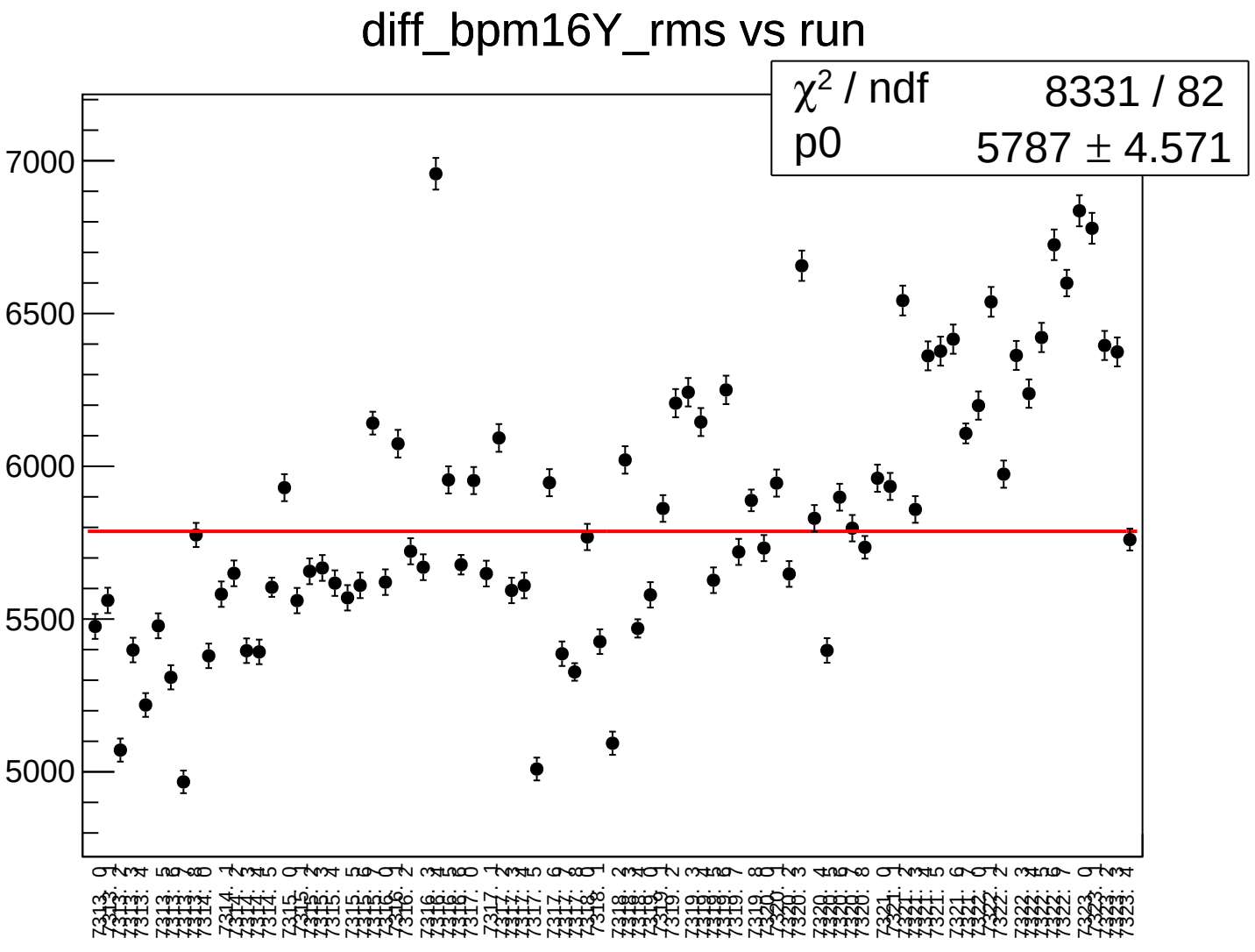

diff_bpm16X_mean vs run
χ^2 / ndf 61.47 / 82
p0 2.496 ± 5.841
pull
Entries 83
Mean −100.2
Std Dev 0

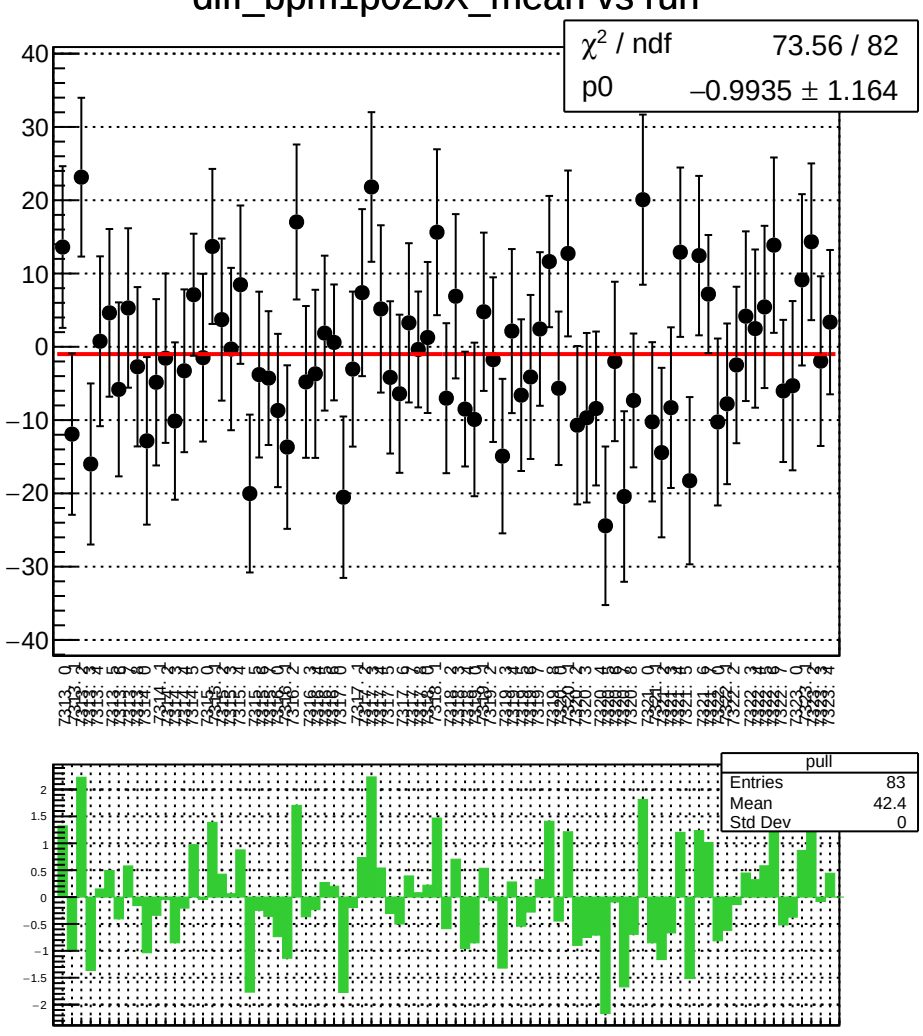

pull1D
Entries 83
Mean −0.01524
Std Dev 0.8605

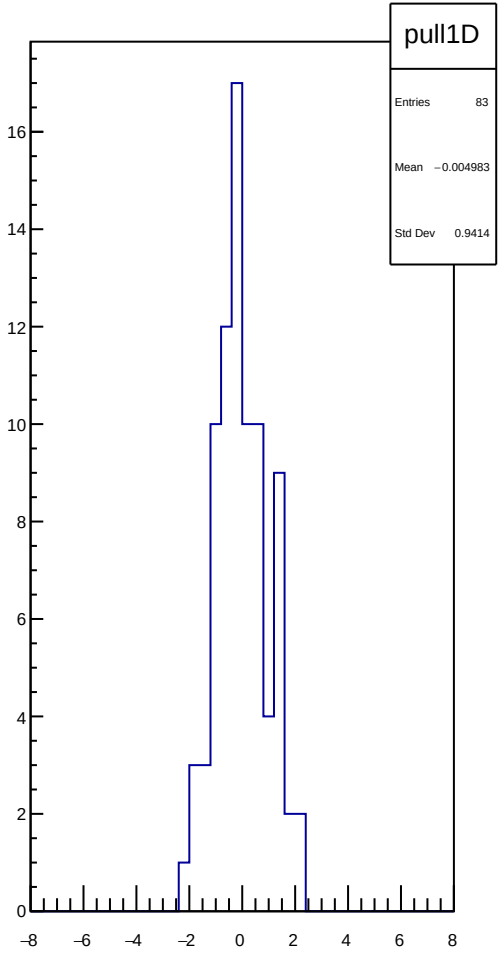

diff_bpm16X_rms vs run
χ² / ndf 3397 / 82
p0 5238 ± 4.13
5800
5600
5400
5200
5000
4800

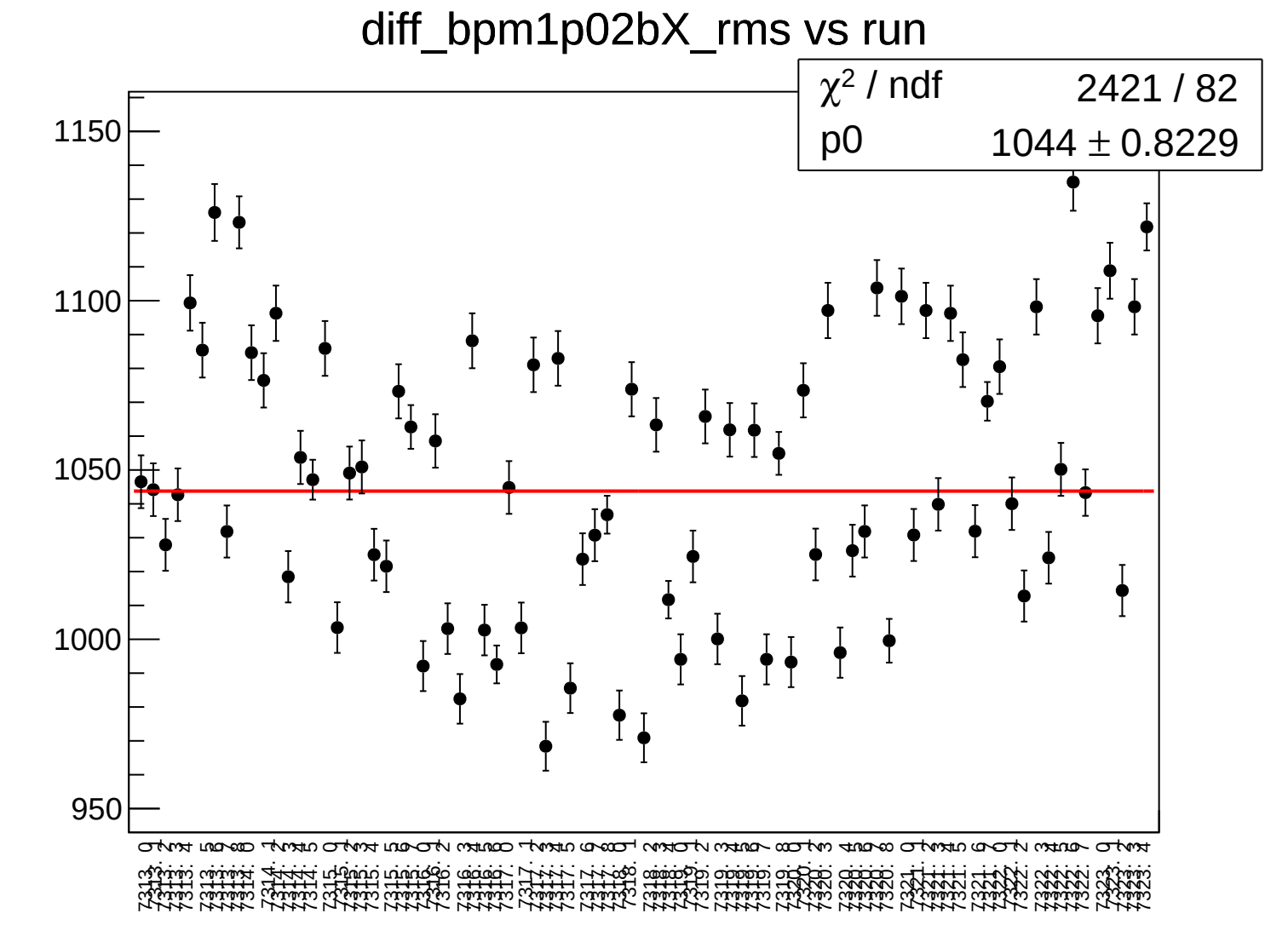

diff_bpm16Y_mean vs run
χ² / ndf 70.53 / 82
p0 2.313 ± 6.464
pull
Entries 83
Mean 129
Std Dev 0

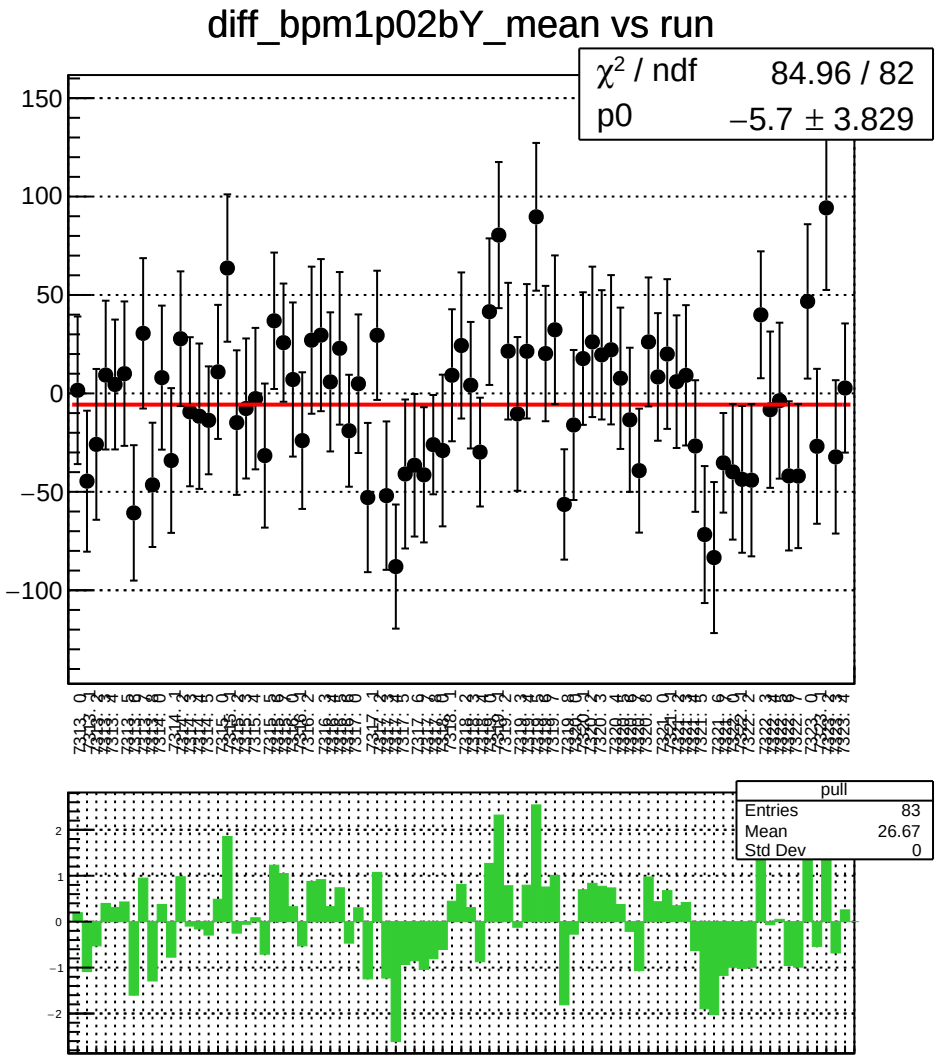

pull1D
Entries 83
Mean 0.02523
Std Dev 0.9215

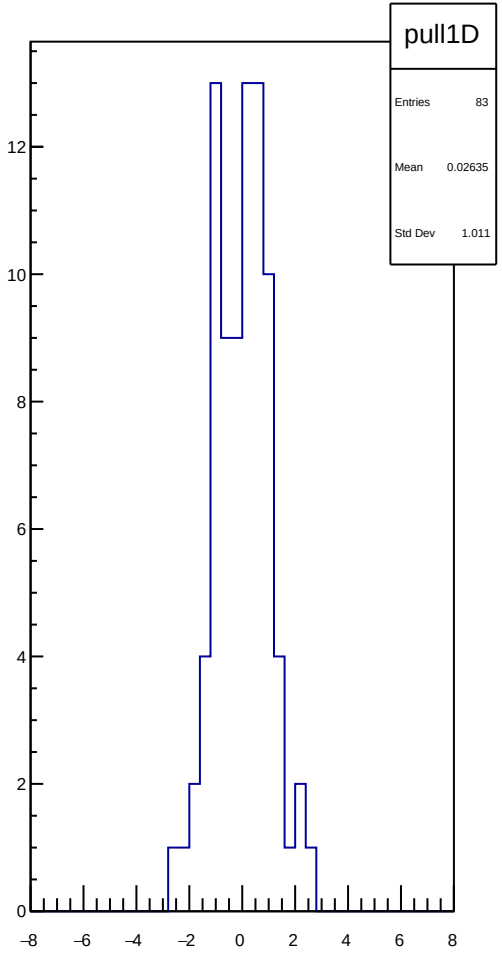

diff_bpm16Y_rms vs run
χ² / ndf 8331 / 82
p0 5787 ± 4.571
7000
6500
6000
5500
5000

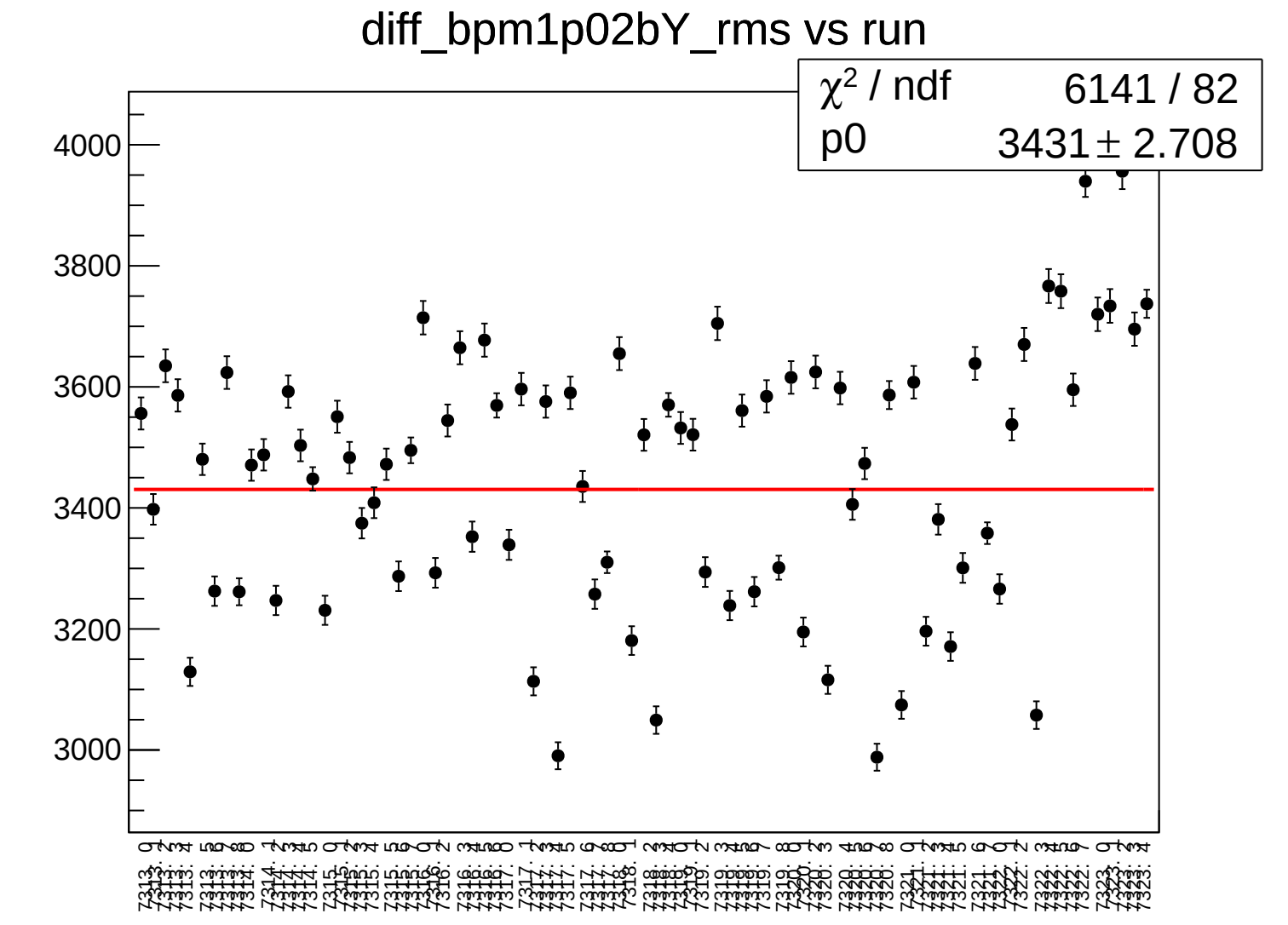

diff_bpm1p02bX_mean vs run
χ² / ndf 73.56 / 82
p0 −0.9935 ± 1.164
pull
Entries 83
Mean 42.4
Std Dev 0

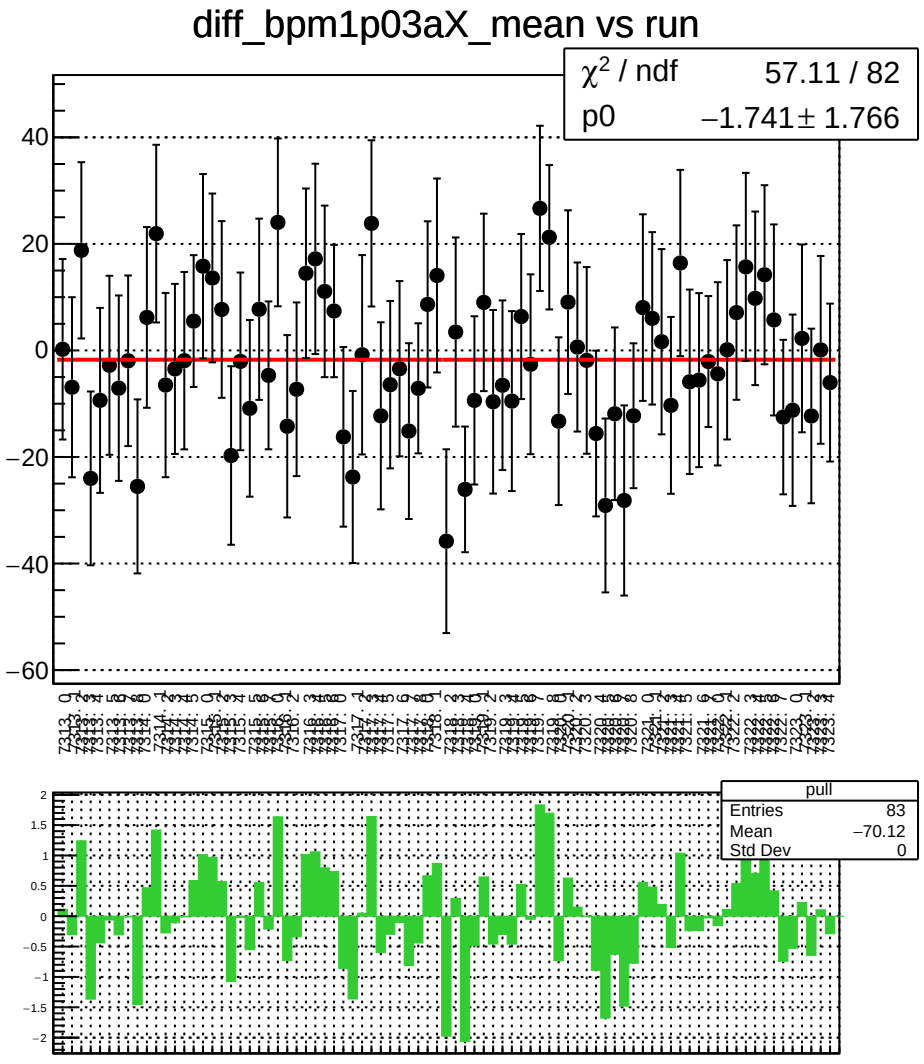

pull1D
Entries 83
Mean −0.004983
Std Dev 0.9414

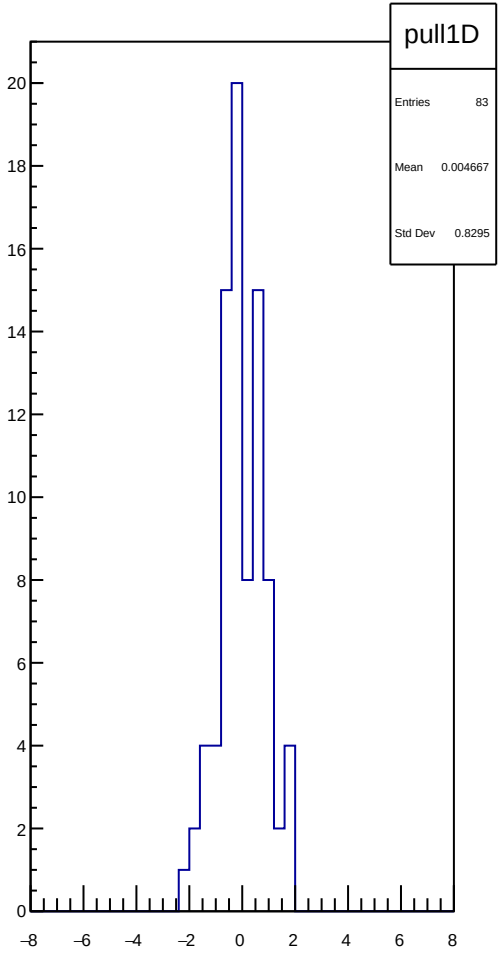

diff_bpm1p02bX_rms vs run
χ² / ndf 2421 / 82
p0 1044 ± 0.8229
1150
1100
1050
1000
950

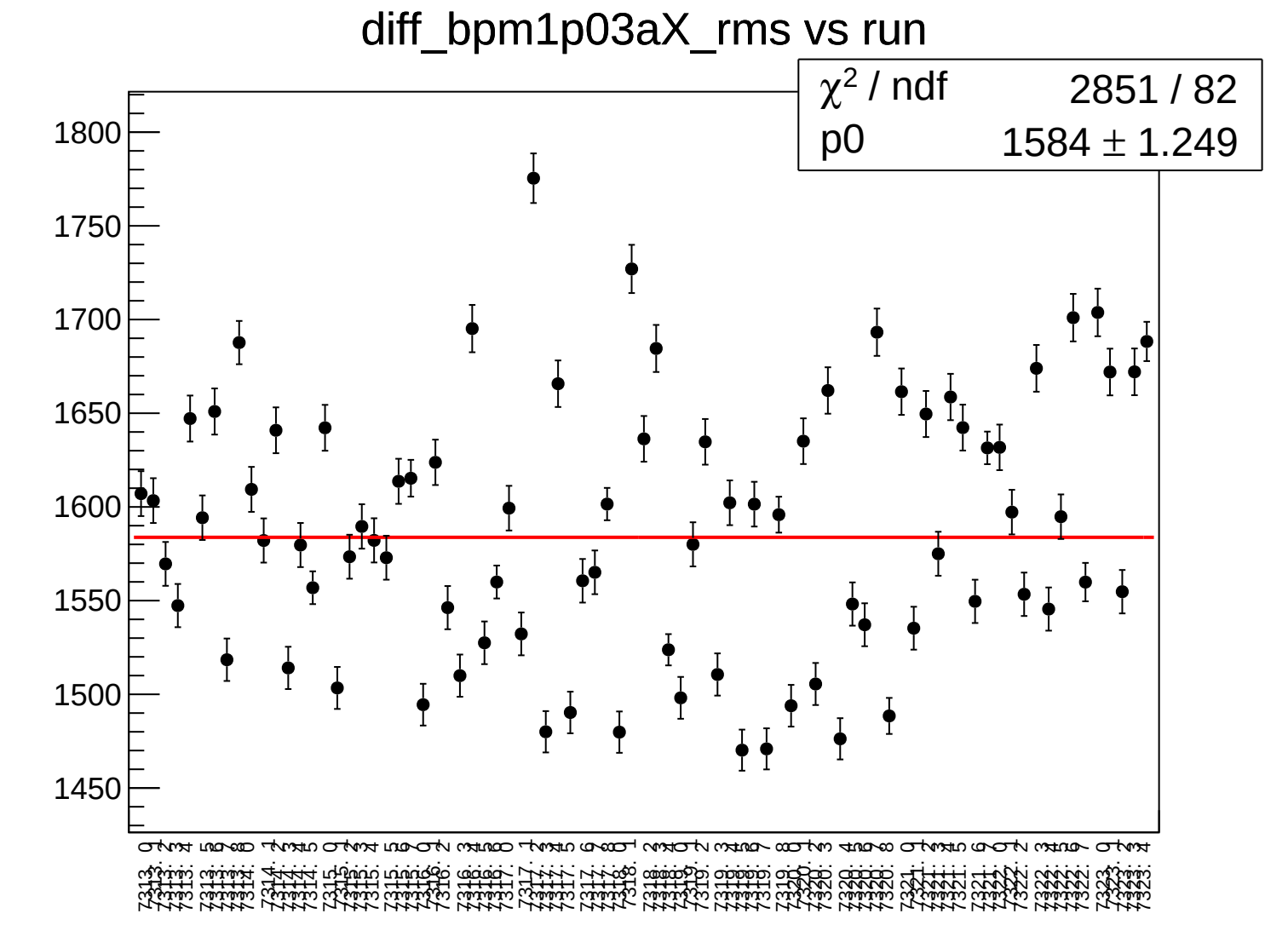

diff_bpm1p02bY_mean vs run
χ² / ndf 84.96 / 82
p0 −5.7 ± 3.829
150
100
50
0
−50
−100
pull
Entries 83
Mean 26.67
Std Dev 0
2
1
0
−1
−2

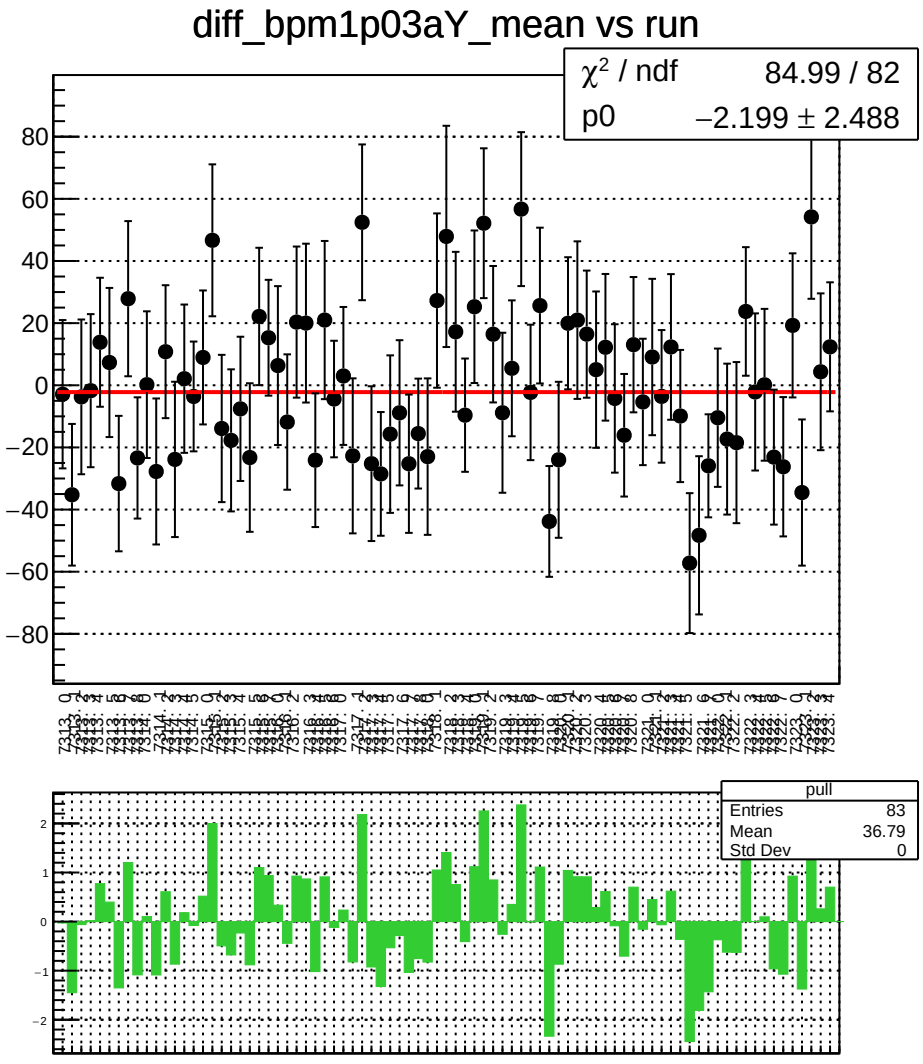

pull1D
Entries 83
Mean 0.02635
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

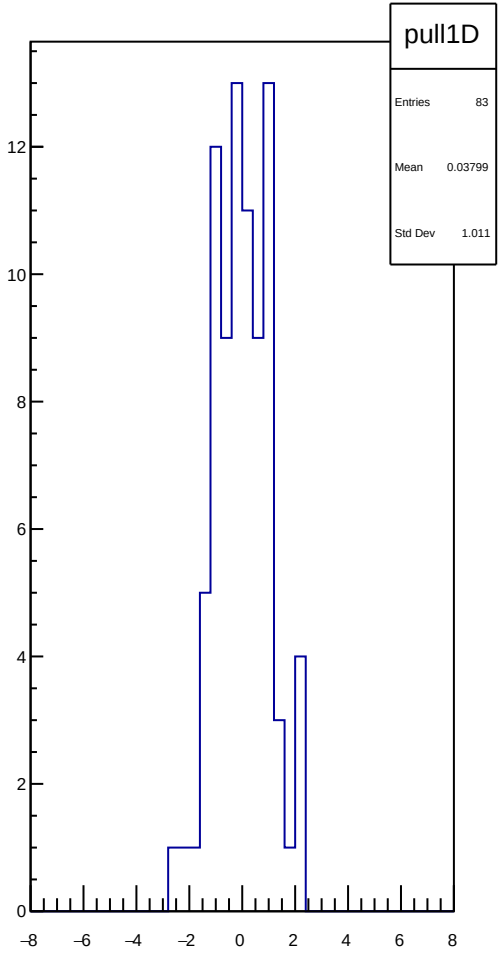

diff_bpm1p02bY_rms vs run
χ² / ndf 6141 / 82
p0 3431 ± 2.708
4000
3800
3600
3400
3200
3000

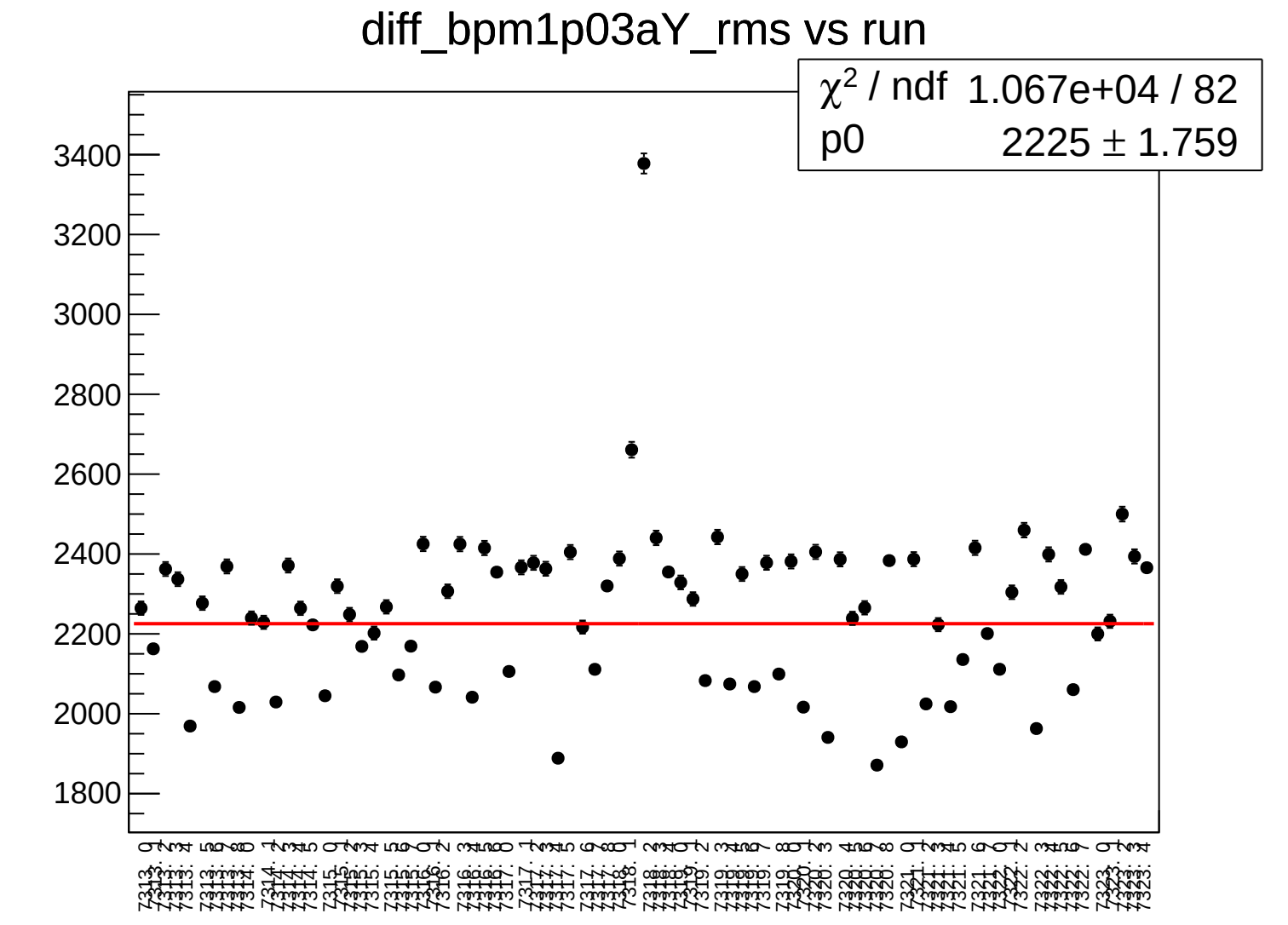

diff_bpm1p03aX_mean vs run
χ² / ndf 57.11 / 82
p0 −1.741 ± 1.766
pull
Entries 83
Mean −70.12
Std Dev 0

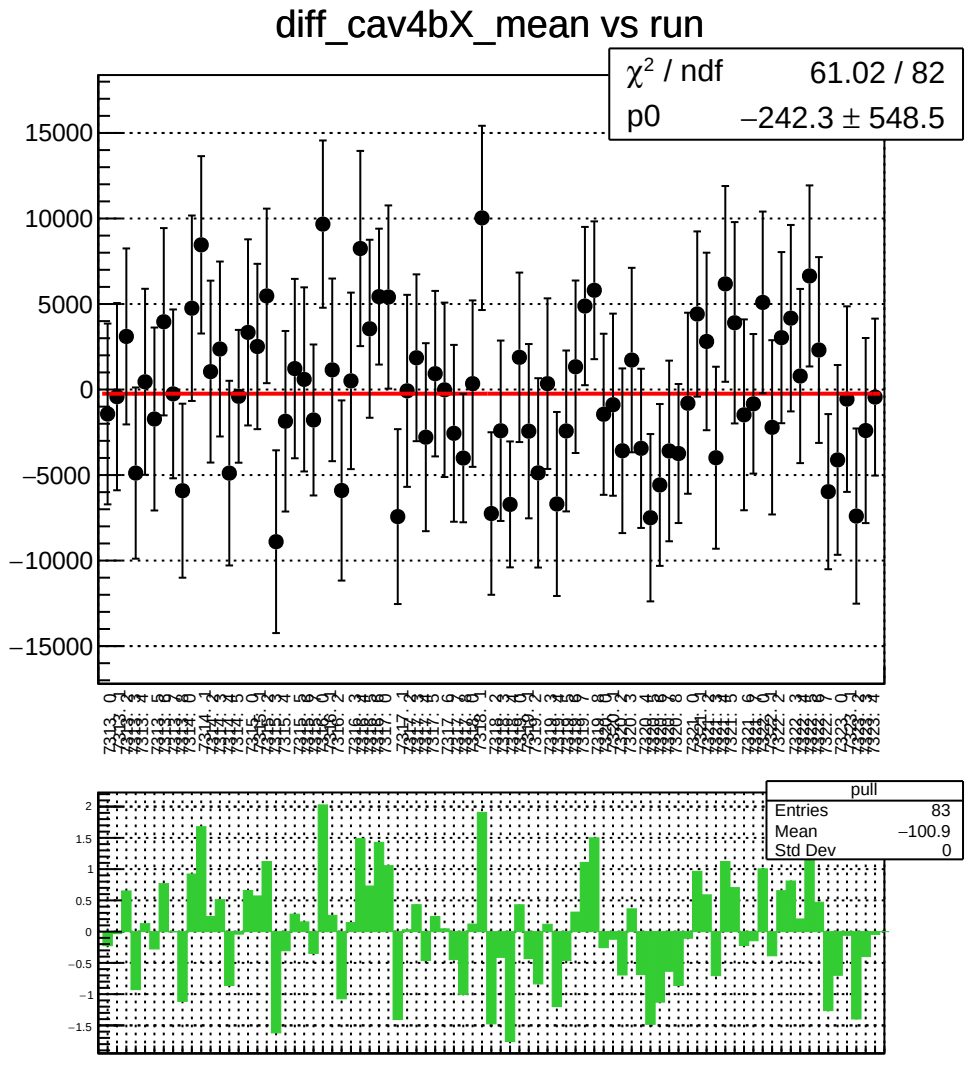

pull1D
Entries 83
Mean 0.004667
Std Dev 0.8295

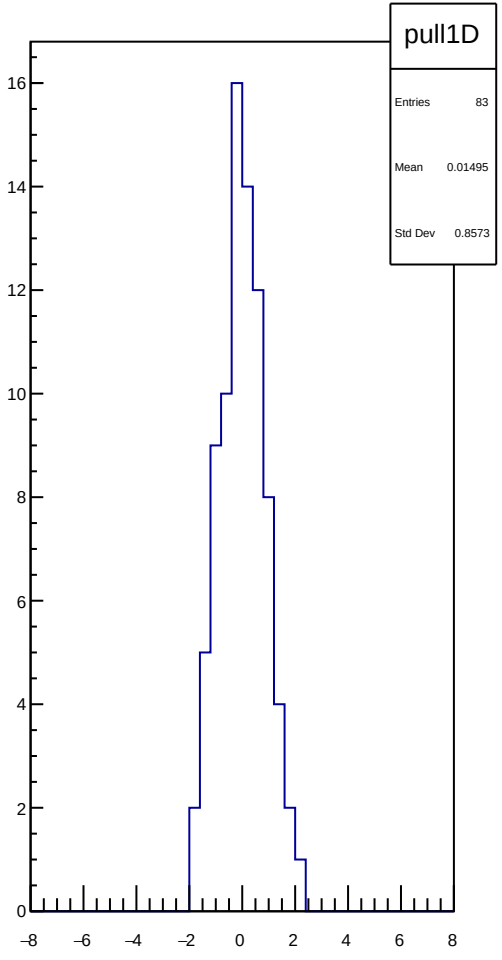

diff_bpm1p03aX_rms vs run
χ² / ndf 2851 / 82
p0 1584 ± 1.249
1800
1750
1700
1650
1600
1550
1500
1450

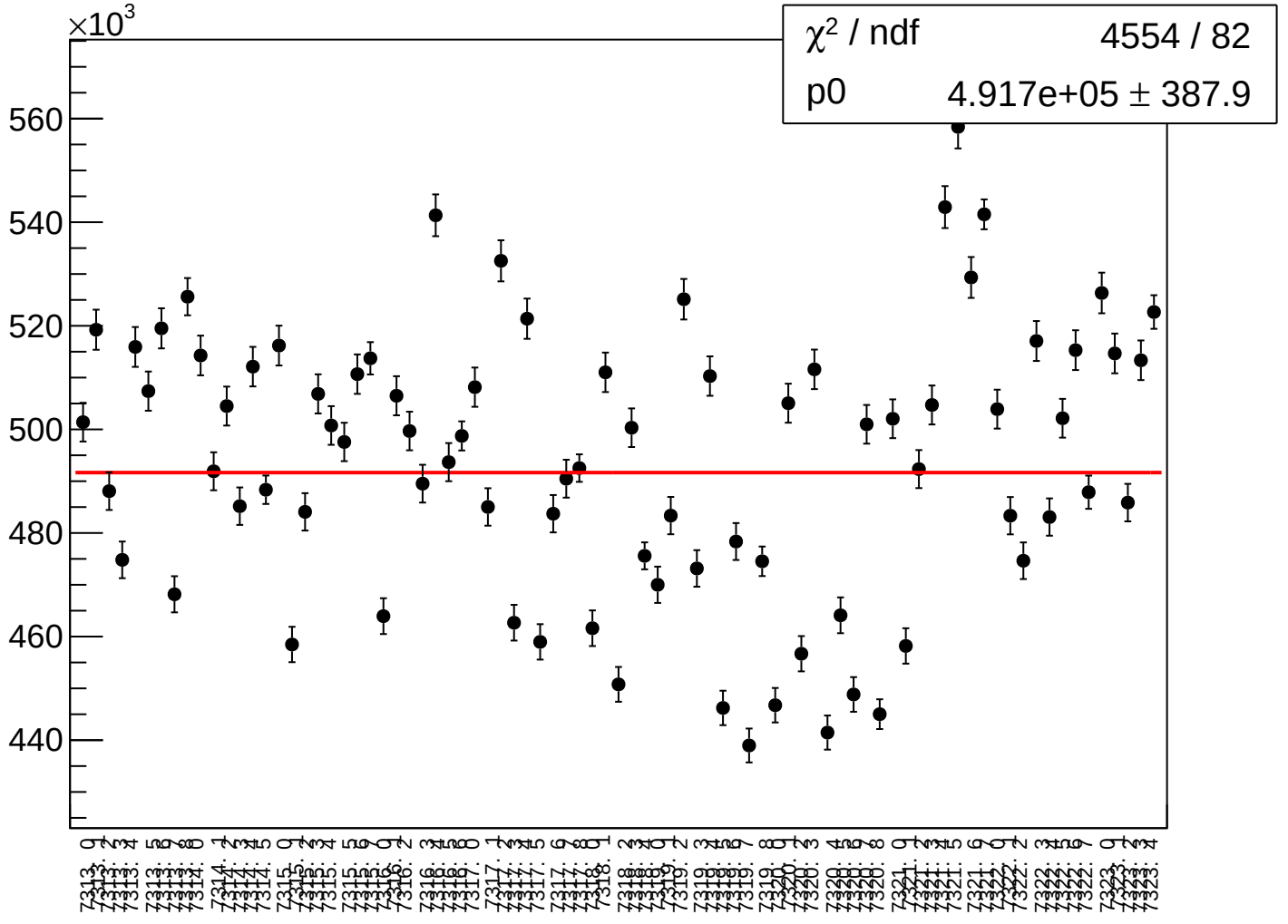

diff_bpm1p03aY_mean vs run
χ² / ndf 84.99 / 82
p0 −2.199 ± 2.488
pull
Entries 83
Mean 36.79
Std Dev 0

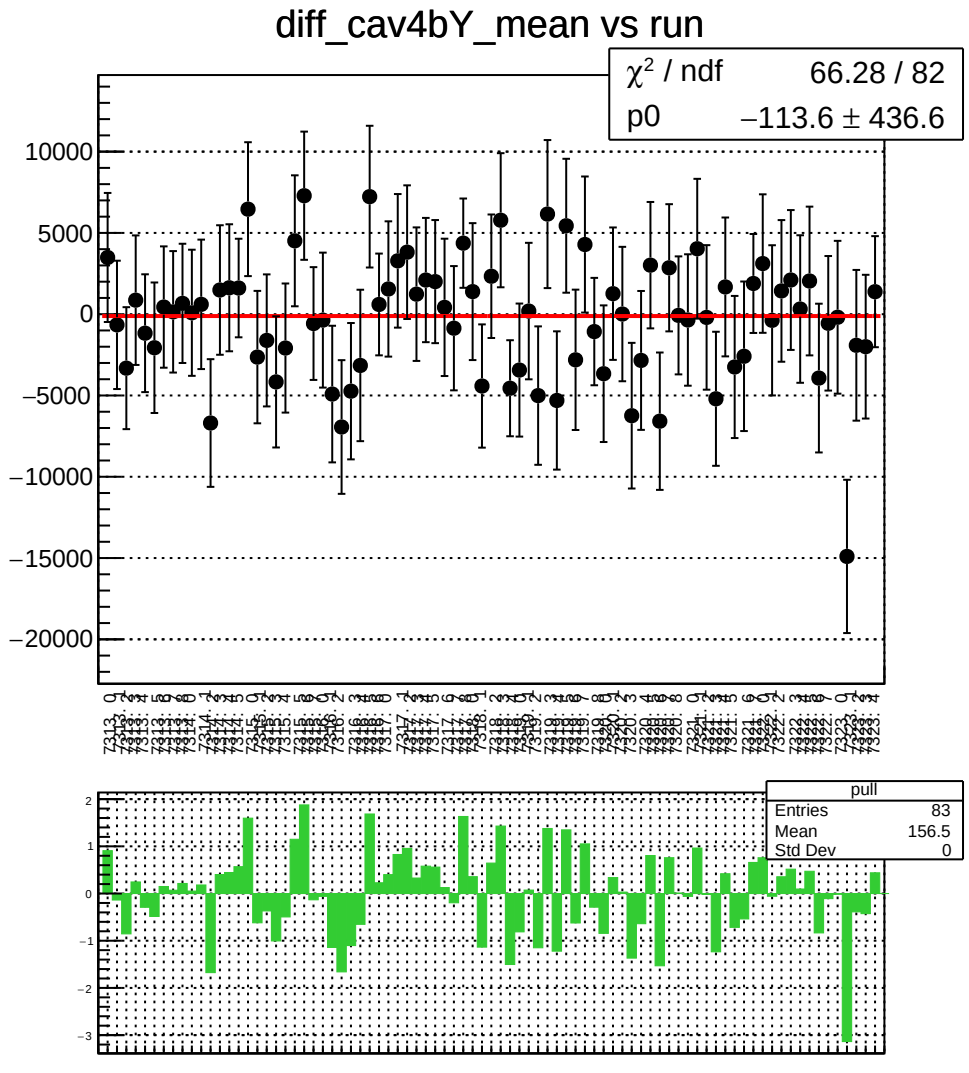

pull1D
Entries 83
Mean 0.03799
Std Dev 1.011

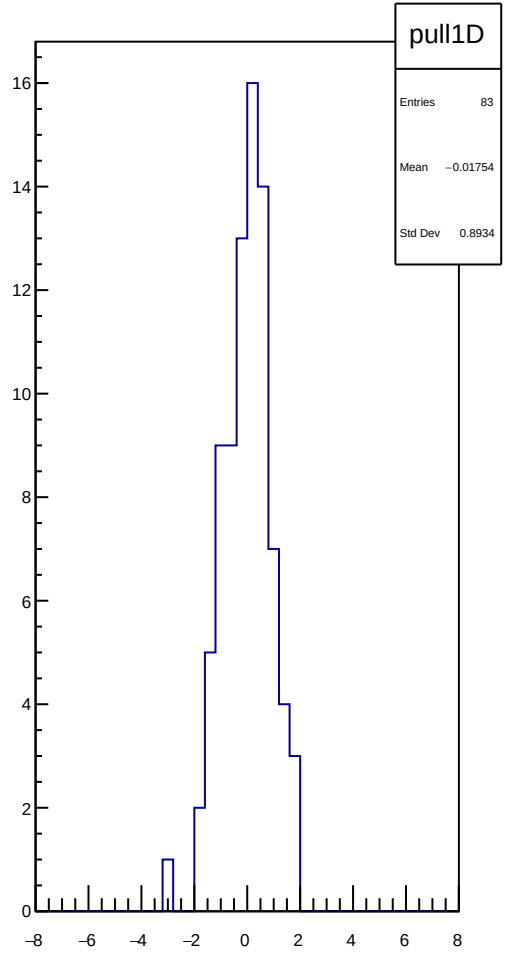

diff_bpm1p03aY_rms vs run
χ² / ndf 1.067e+04 / 82
p0 2225 ± 1.759
3400
3200
3000
2800
2600
2400
2200
2000
1800

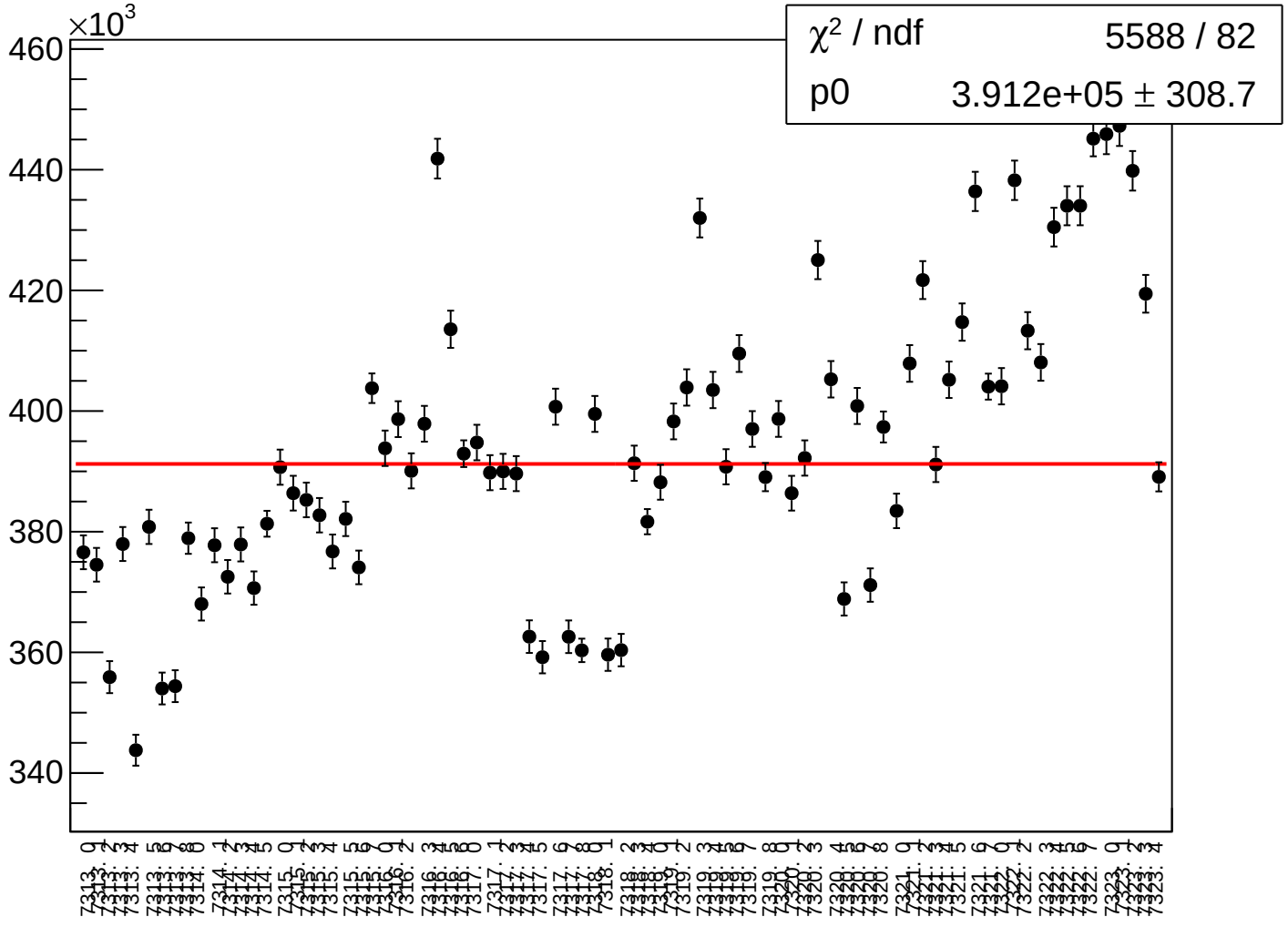

diff_cav4bX_mean vs run
χ² / ndf 61.02 / 82
p0 −242.3 ± 548.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −100.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

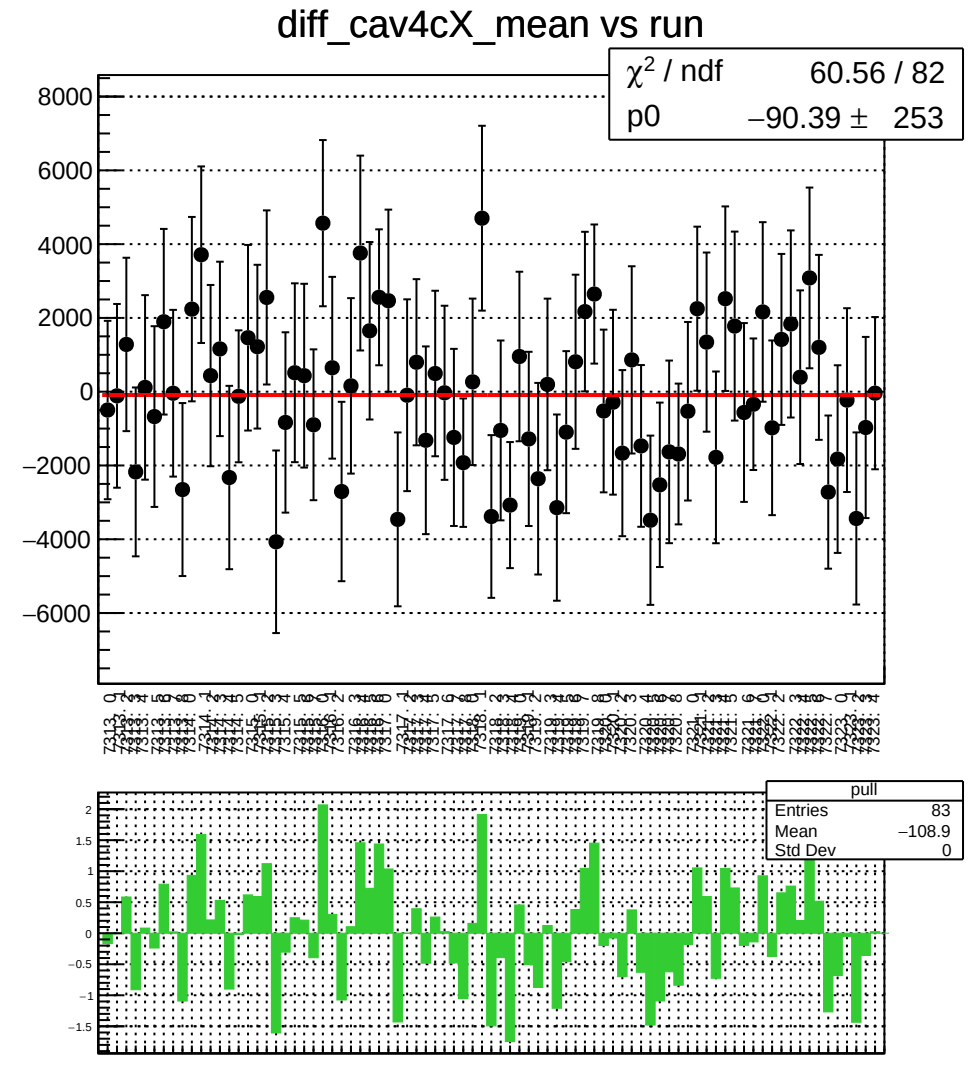

pull1D
Entries 83
Mean 0.01495
Std Dev 0.8573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

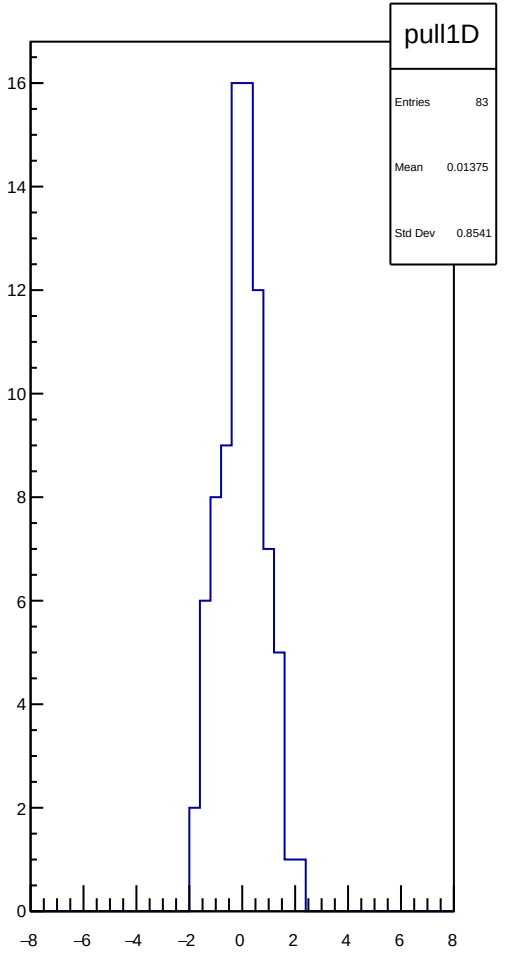

diff_cav4bX_rms vs run
×10^3
χ² / ndf 4554 / 82
p0 4.917e+05 ± 387.9
560
540
520
500
480
460
440

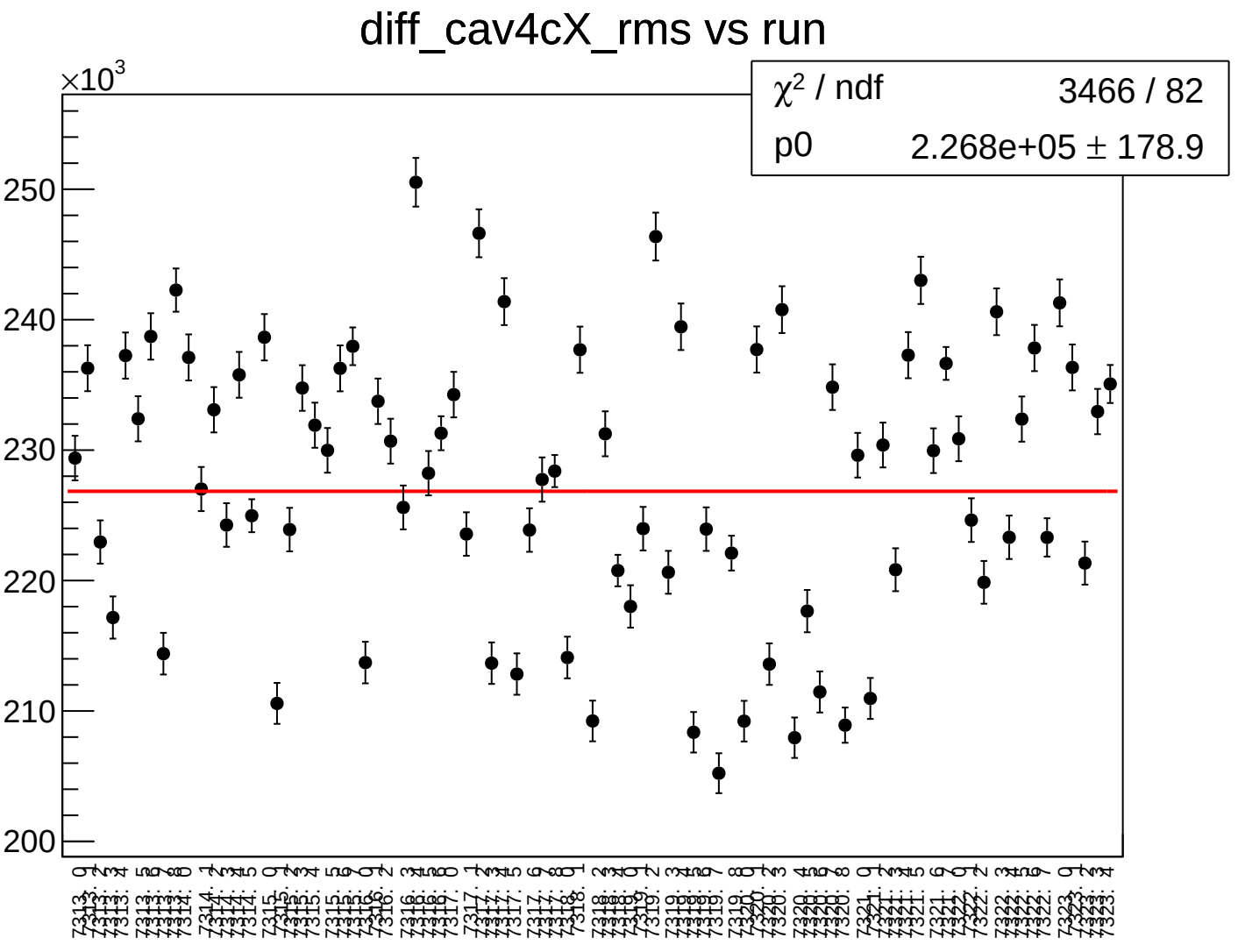

diff_cav4bY_mean vs run
χ² / ndf 66.28 / 82
p0 −113.6 ± 436.6
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 156.5
Std Dev 0
2
1
0
−1
−2
−3

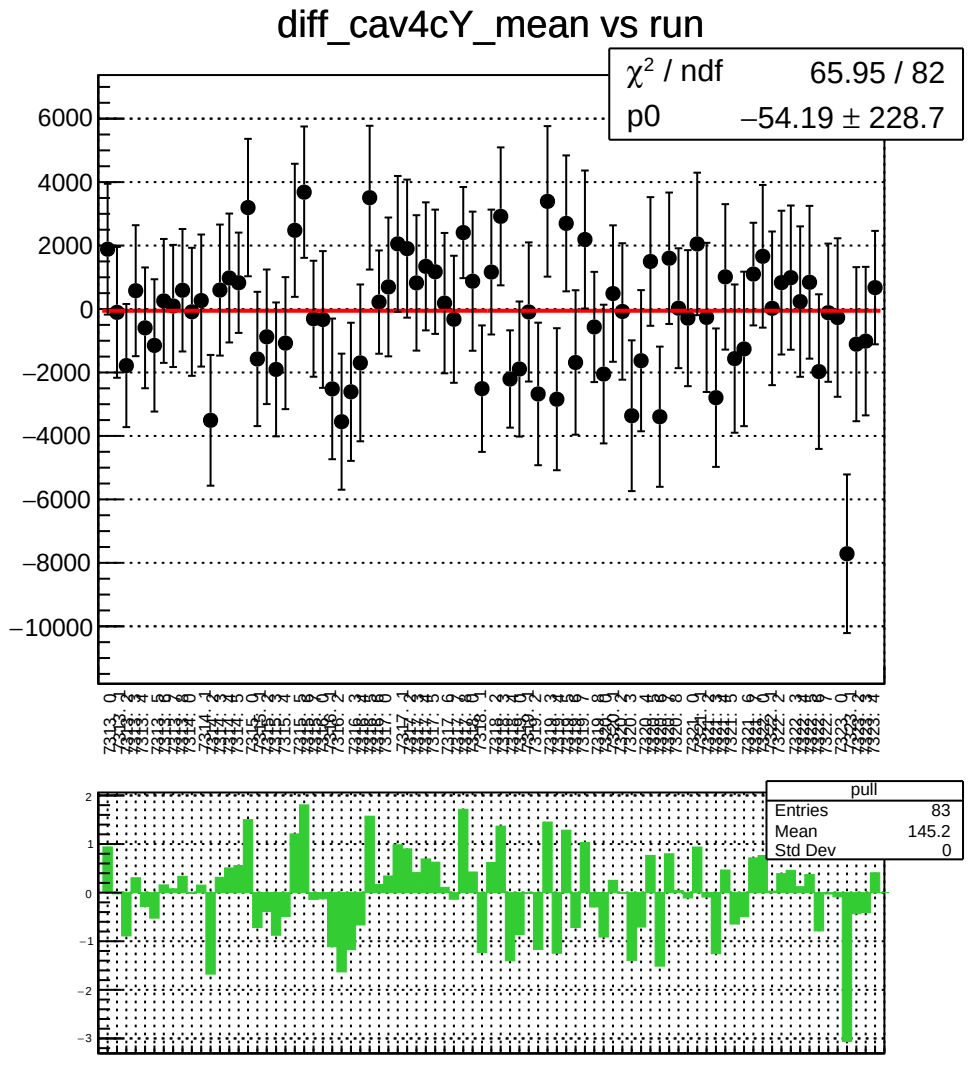

pull1D
Entries 83
Mean −0.01754
Std Dev 0.8934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

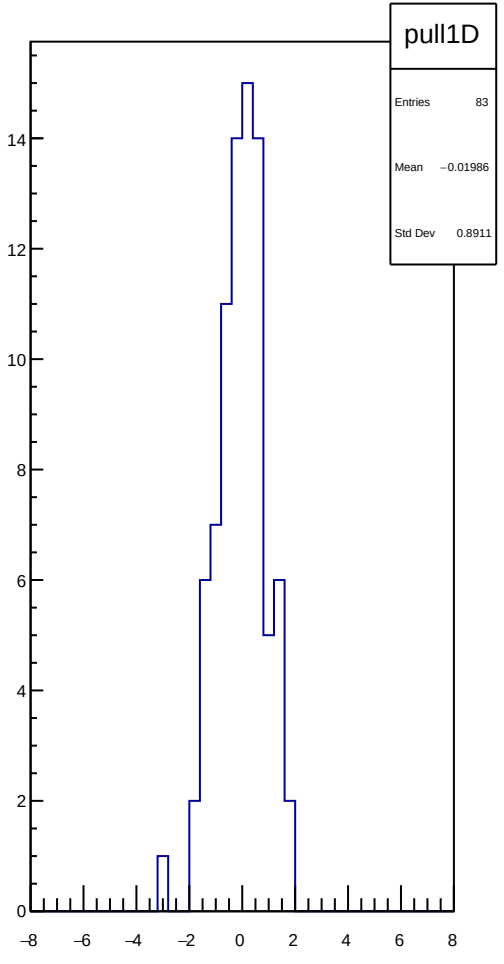

diff_cav4bY_rms vs run
×10^3
460
440
420
400
380
360
340
χ² / ndf 5588 / 82
p0 3.912e+05 ± 308.7

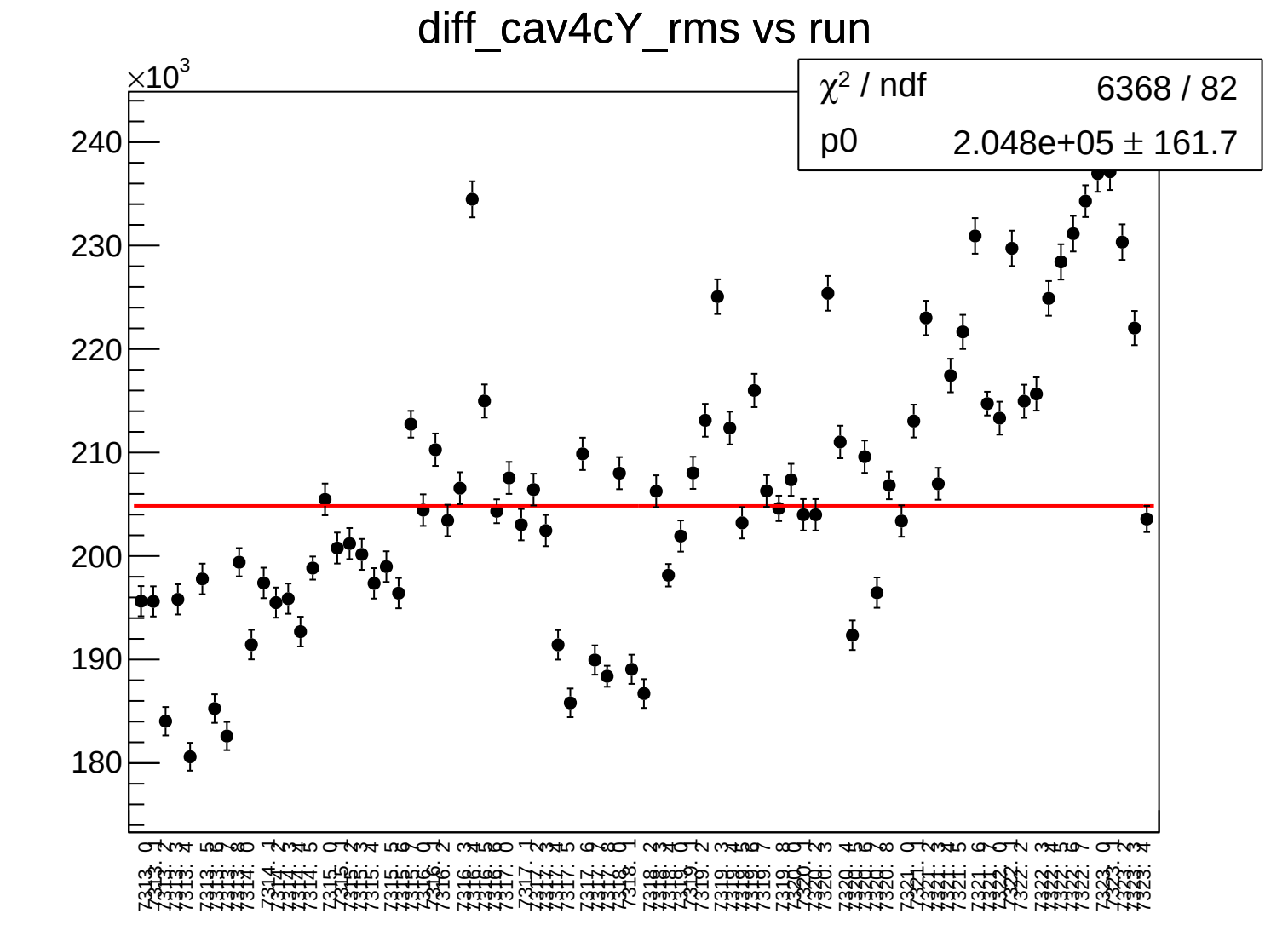

diff_cav4cX_mean vs run
χ² / ndf 60.56 / 82
p0 −90.39 ± 253
pull
Entries 83
Mean −108.9
Std Dev 0

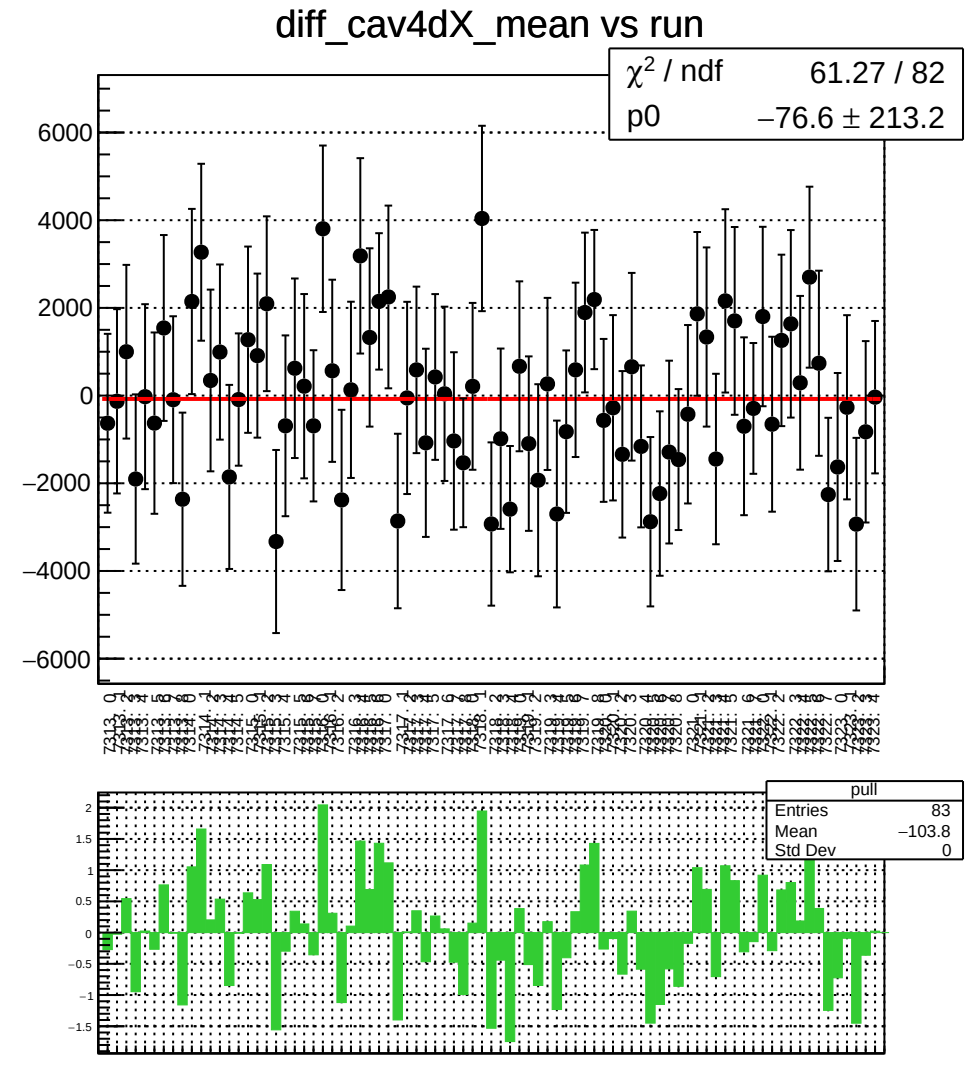

pull1D
Entries 83
Mean 0.01375
Std Dev 0.8541

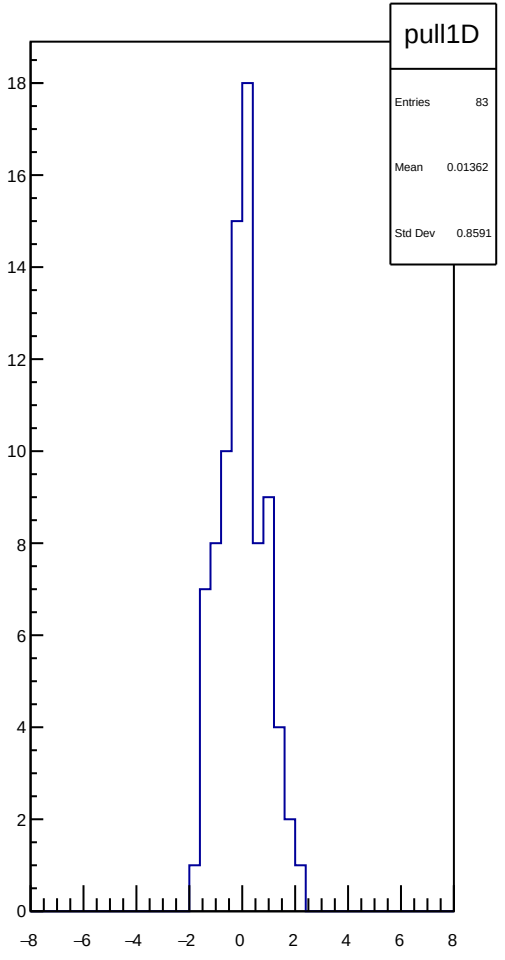

diff_cav4cX_rms vs run
×10^3
χ² / ndf 3466 / 82
p0 2.268e+05 ± 178.9
250
240
230
220
210
200

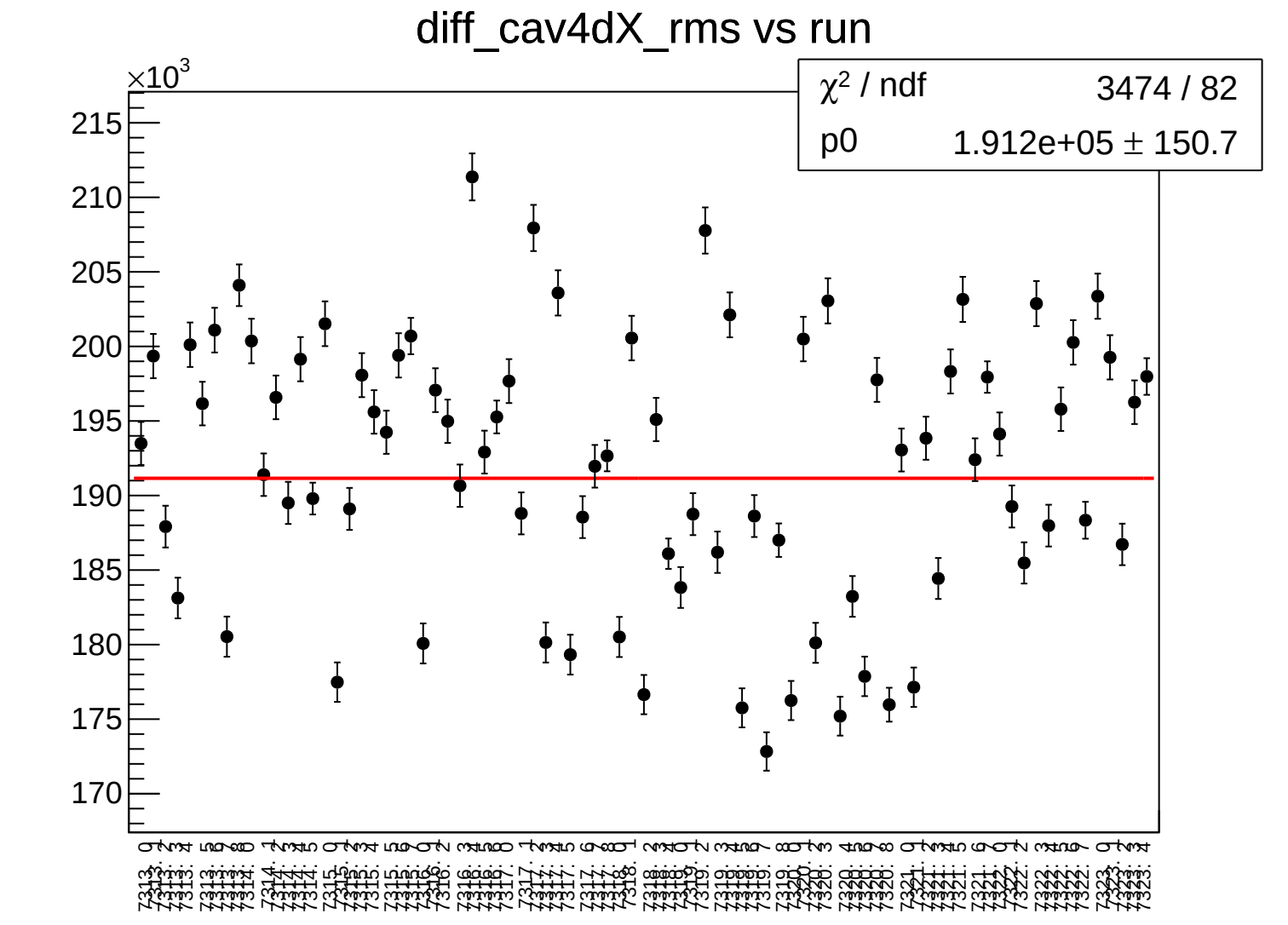

diff_cav4cY_mean vs run
χ² / ndf 65.95 / 82
p0 −54.19 ± 228.7
pull
Entries 83
Mean 145.2
Std Dev 0

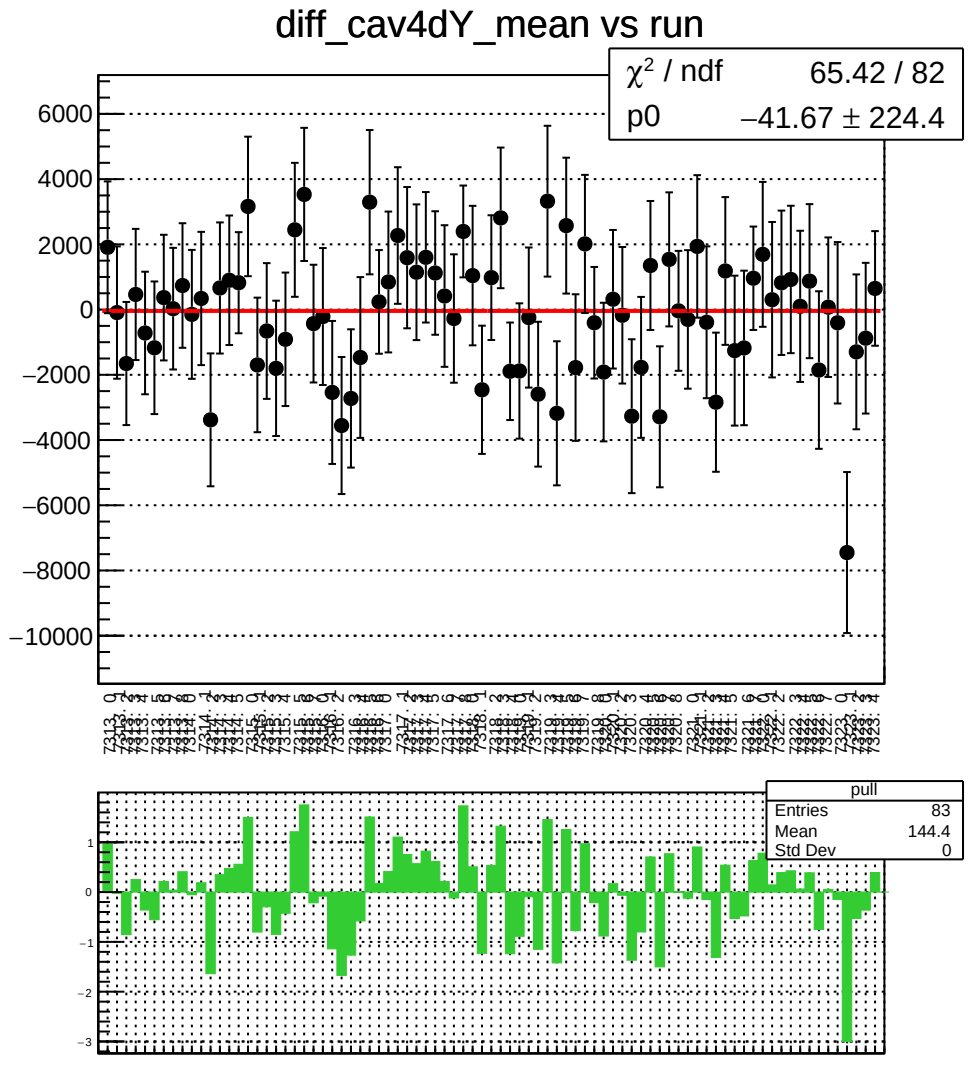

pull1D
Entries 83
Mean −0.01986
Std Dev 0.8911

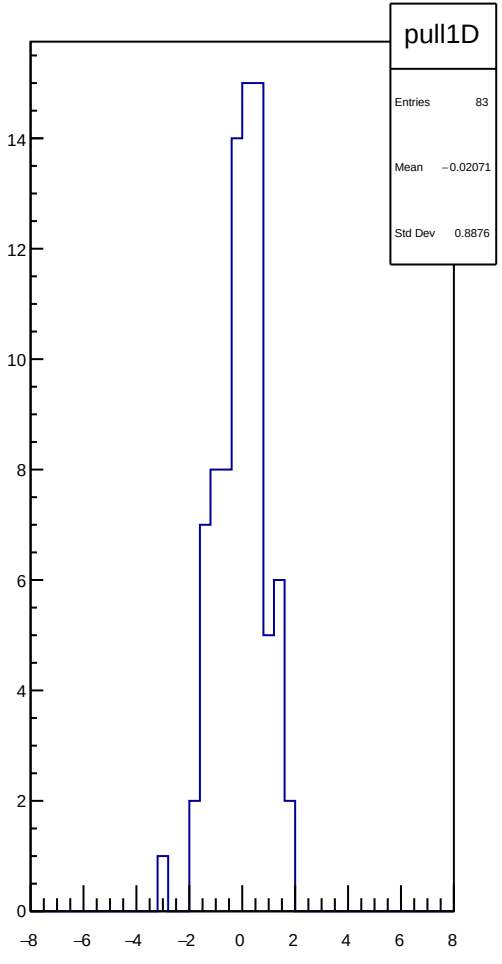

diff_cav4cY_rms vs run
×10^3
240
230
220
210
200
190
180
χ² / ndf 6368 / 82
p0 2.048e+05 ± 161.7

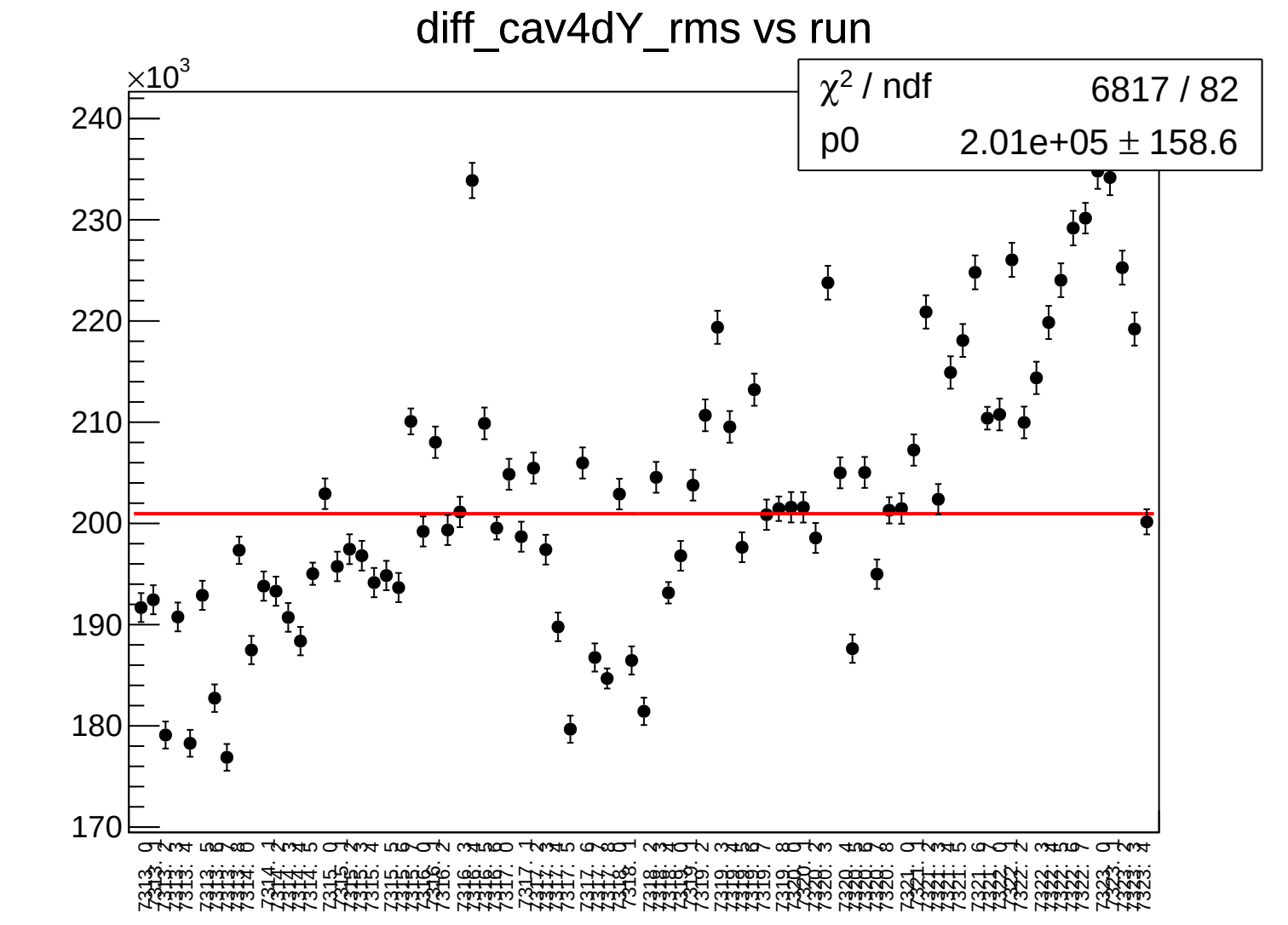

diff_cav4dX_mean vs run
χ² / ndf 61.27 / 82
p0 −76.6 ± 213.2
pull
Entries 83
Mean −103.8
Std Dev 0

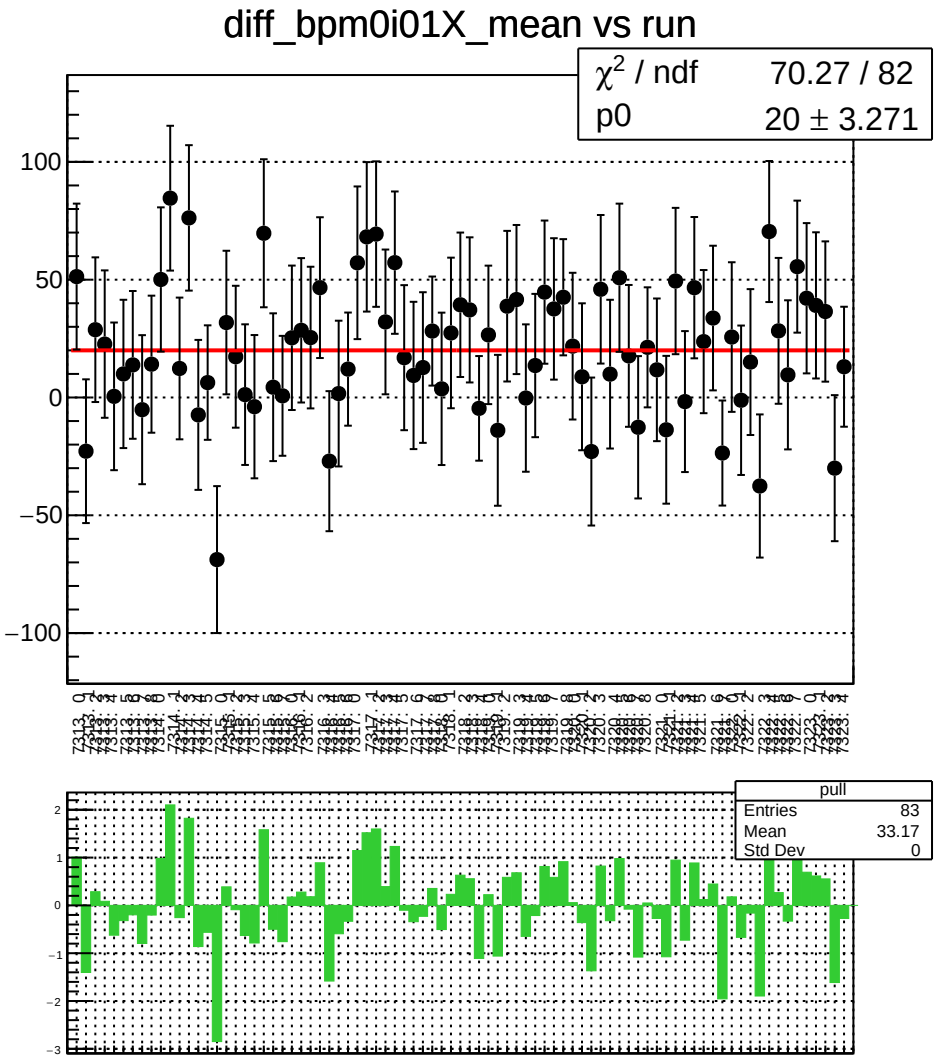

pull1D
Entries 83
Mean 0.01362
Std Dev 0.8591

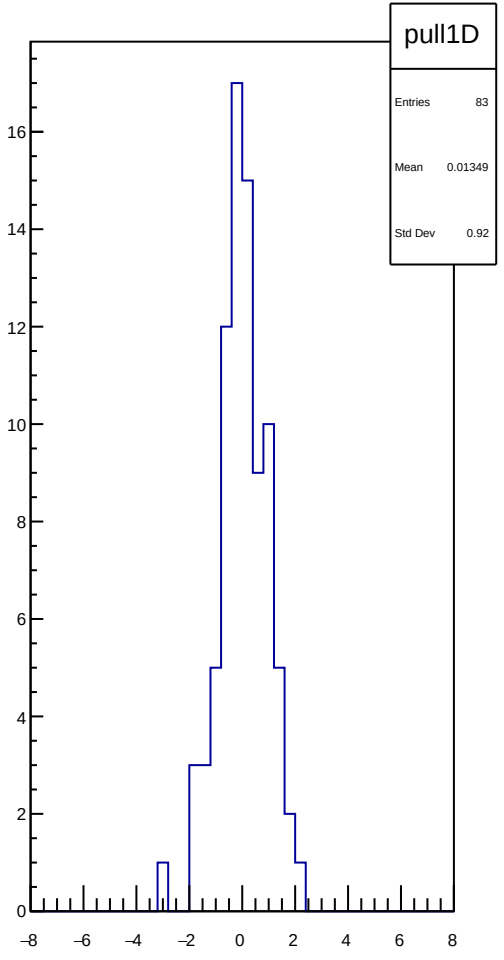

diff_cav4dX_rms vs run
×10^3
χ² / ndf 3474 / 82
p0 1.912e+05 ± 150.7
215
210
205
200
195
190
185
180
175
170

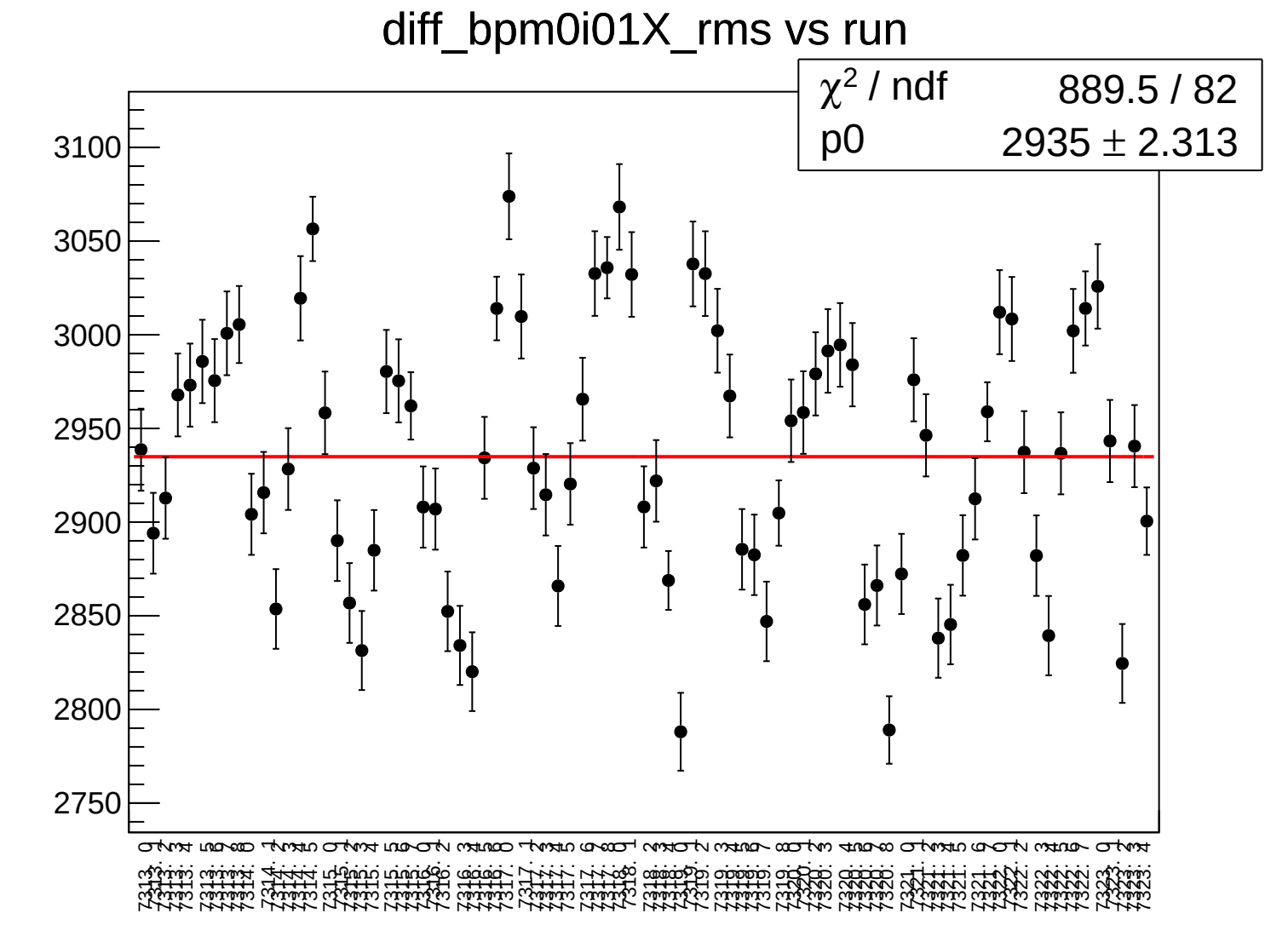

diff_cav4dY_mean vs run
χ² / ndf 65.42 / 82
p0 −41.67 ± 224.4
pull
Entries 83
Mean 144.4
Std Dev 0

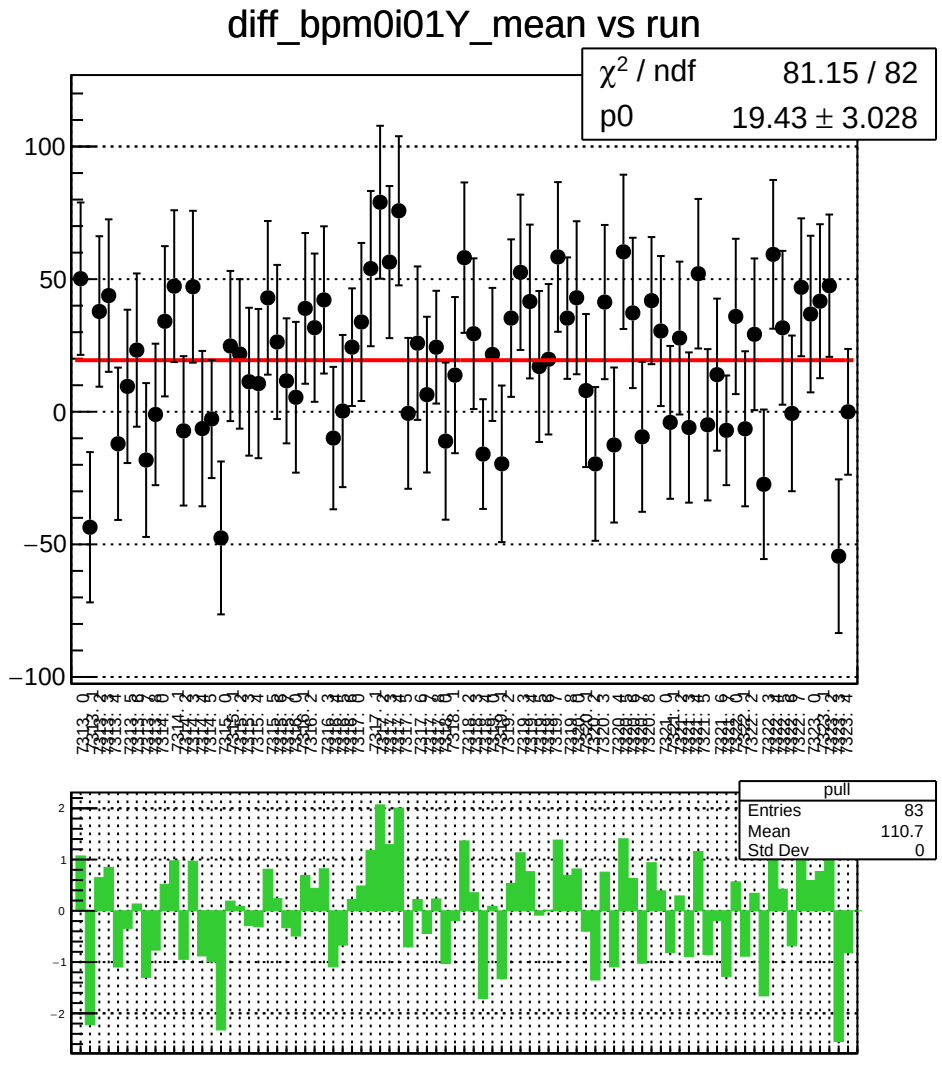

pull1D
Entries 83
Mean −0.02071
Std Dev 0.8876

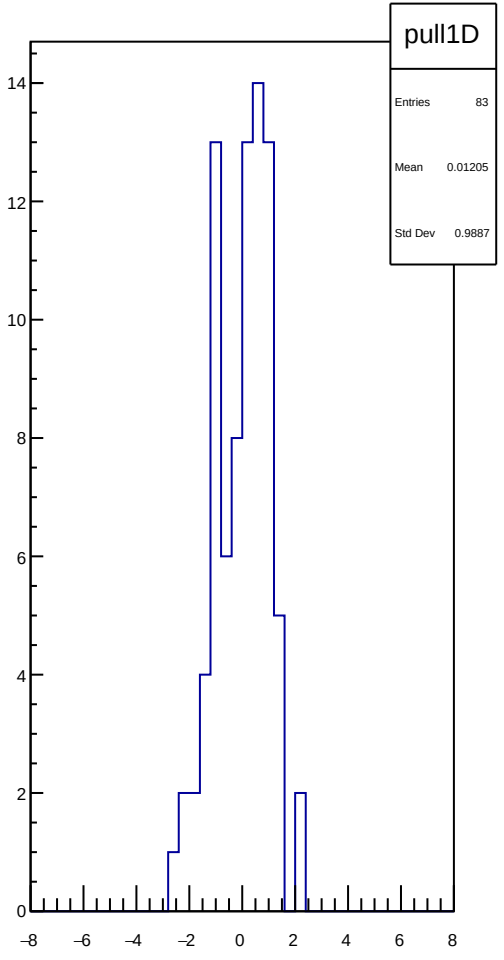

diff_cav4dY_rms vs run
×10^3
χ² / ndf 6817 / 82
p0 2.01e+05 ± 158.6
240
230
220
210
200
190
180
170

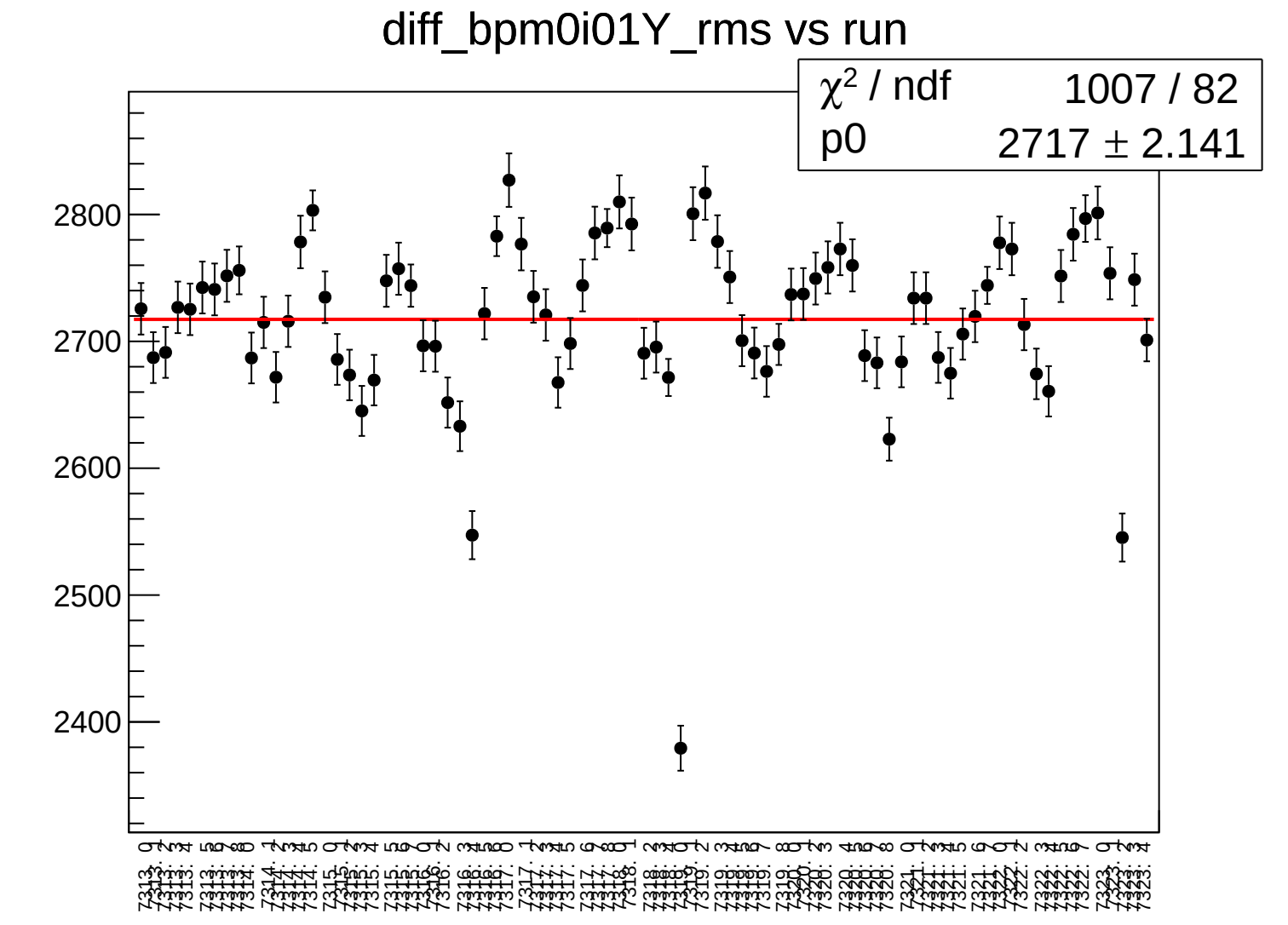

diff_bpm0i01X_mean vs run
χ^2 / ndf 70.27 / 82
p0 20 ± 3.271
pull
Entries 83
Mean 33.17
Std Dev 0

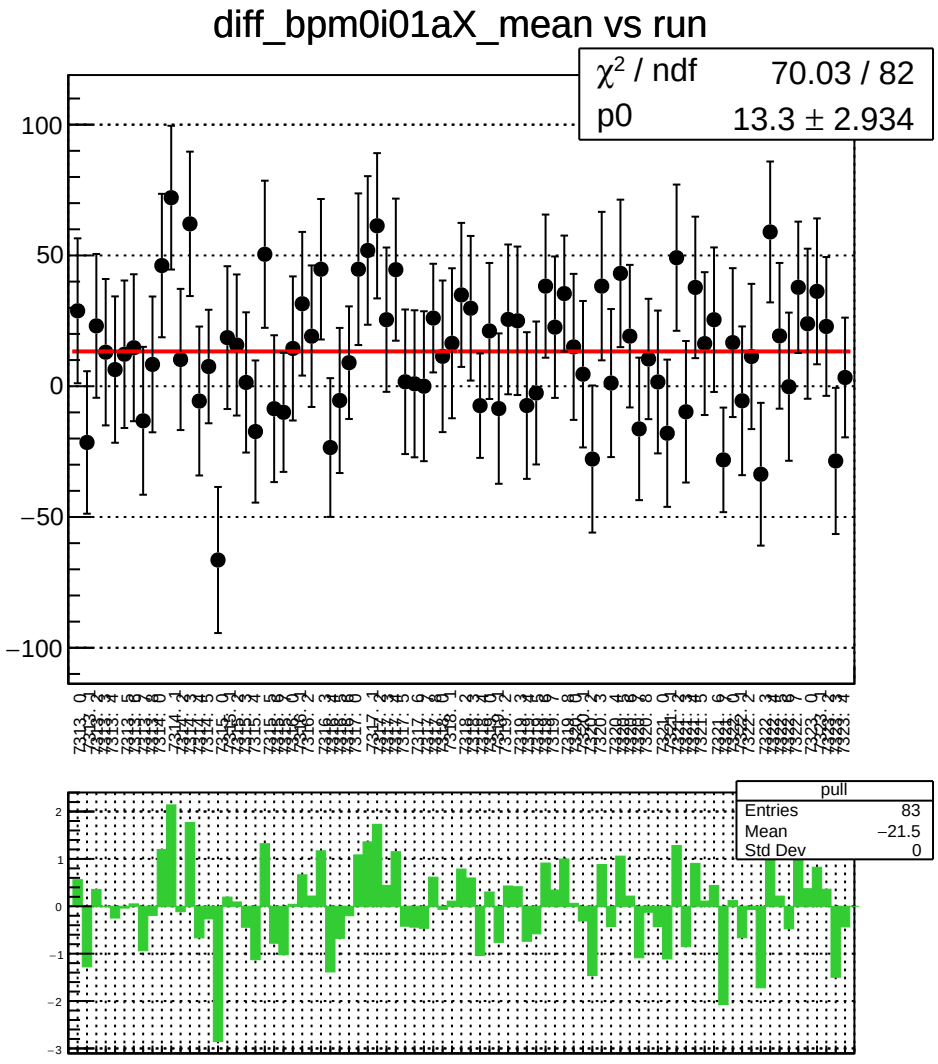

pull1D
Entries 83
Mean 0.01349
Std Dev 0.92

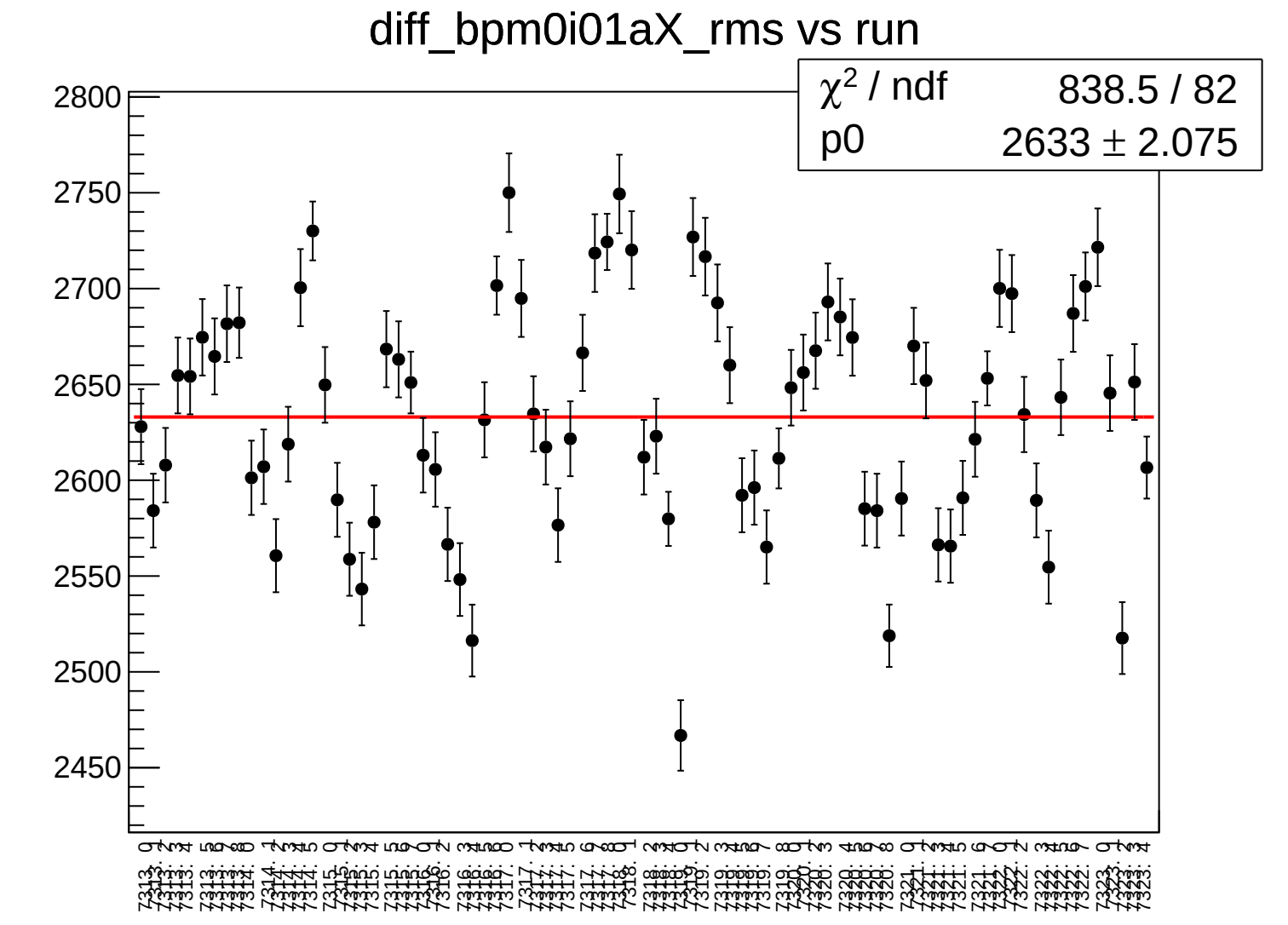

diff_bpm0i01X_rms vs run
χ² / ndf 889.5 / 82
p0 2935 ± 2.313
3100
3050
3000
2950
2900
2850
2800
2750

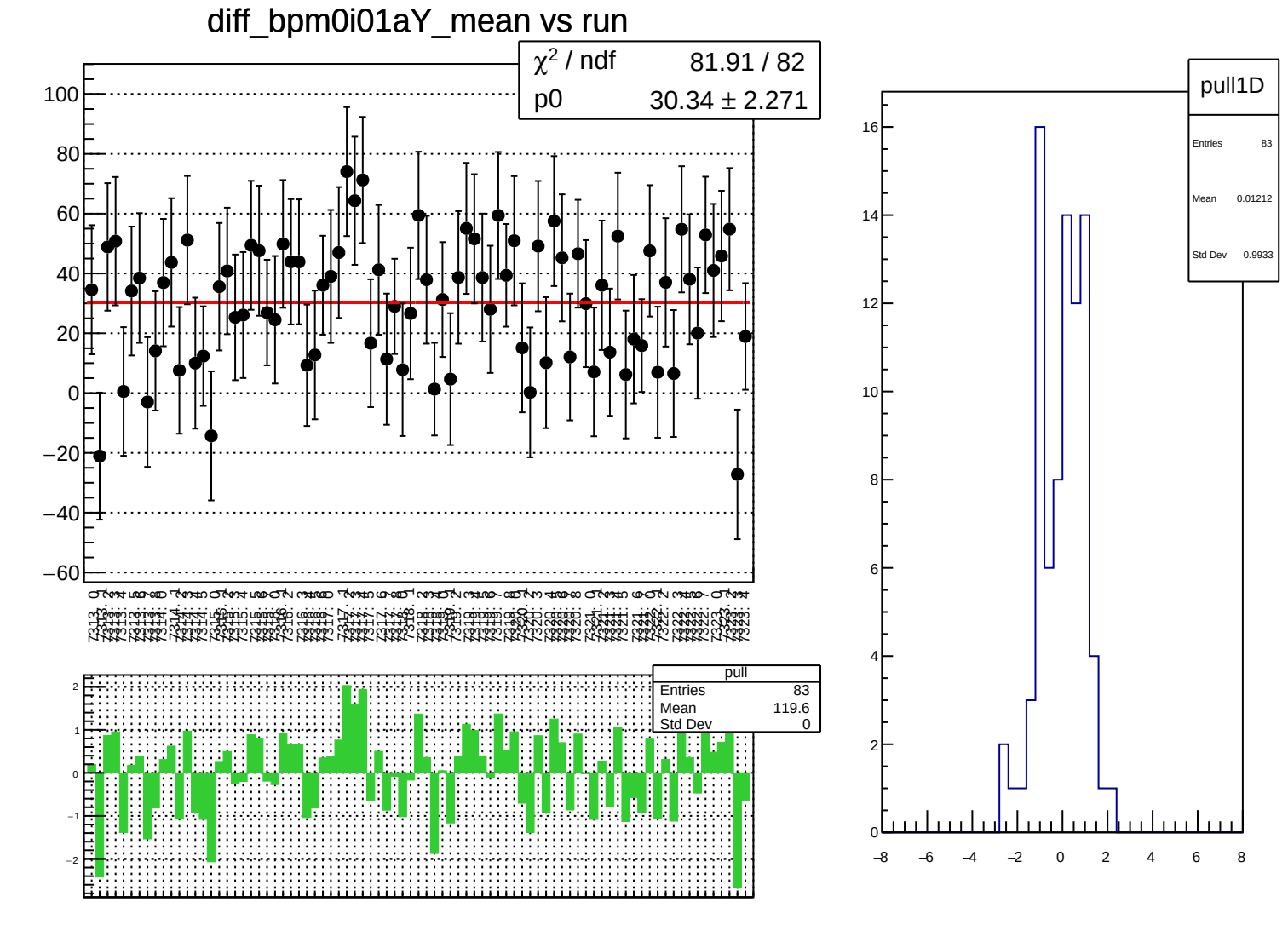

diff_bpm0i01Y_mean vs run
χ^2 / ndf 81.15 / 82
p0 19.43 ± 3.028
pull
Entries 83
Mean 110.7
Std Dev 0

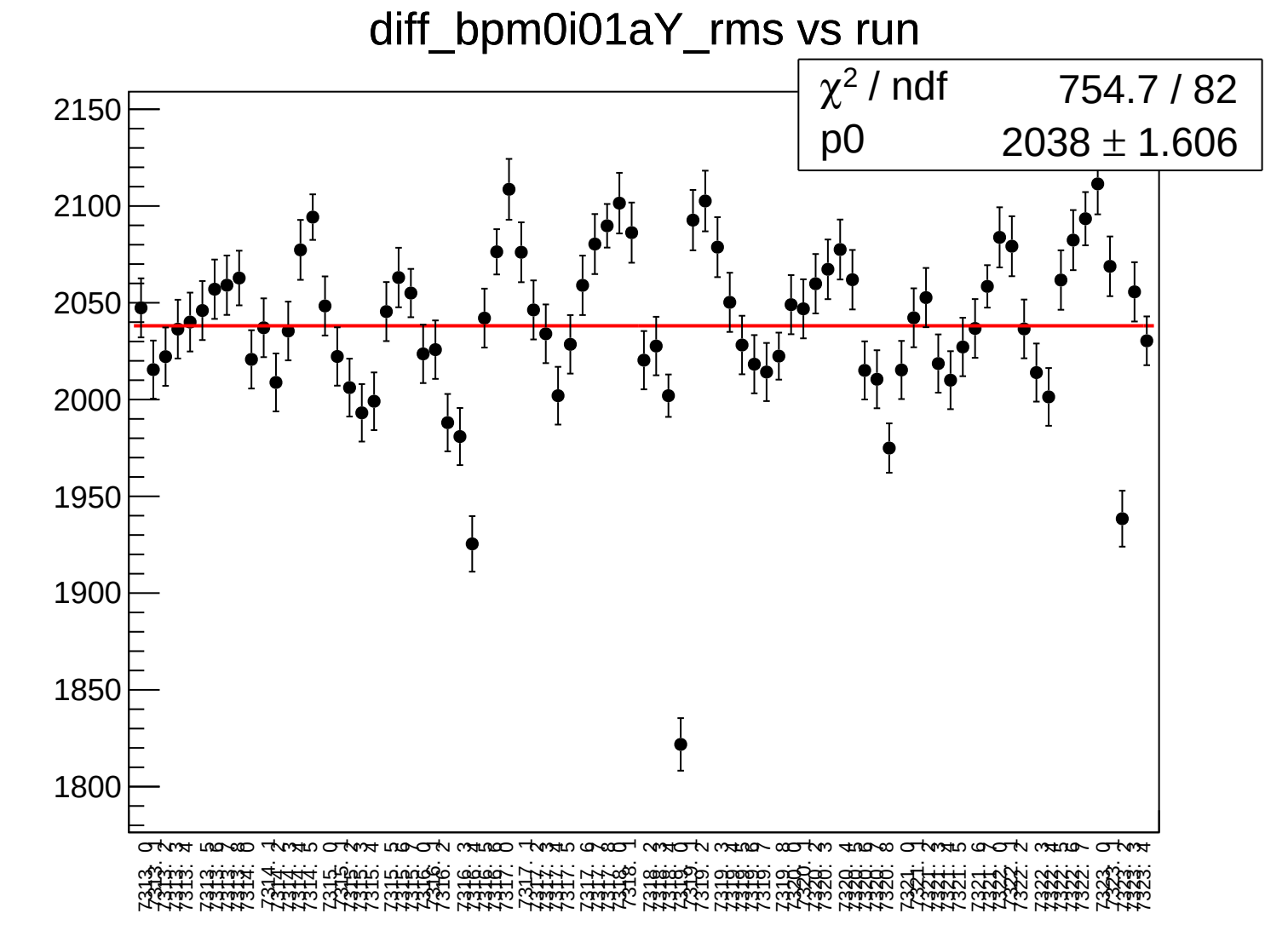

pull1D
Entries 83
Mean 0.01205
Std Dev 0.9887

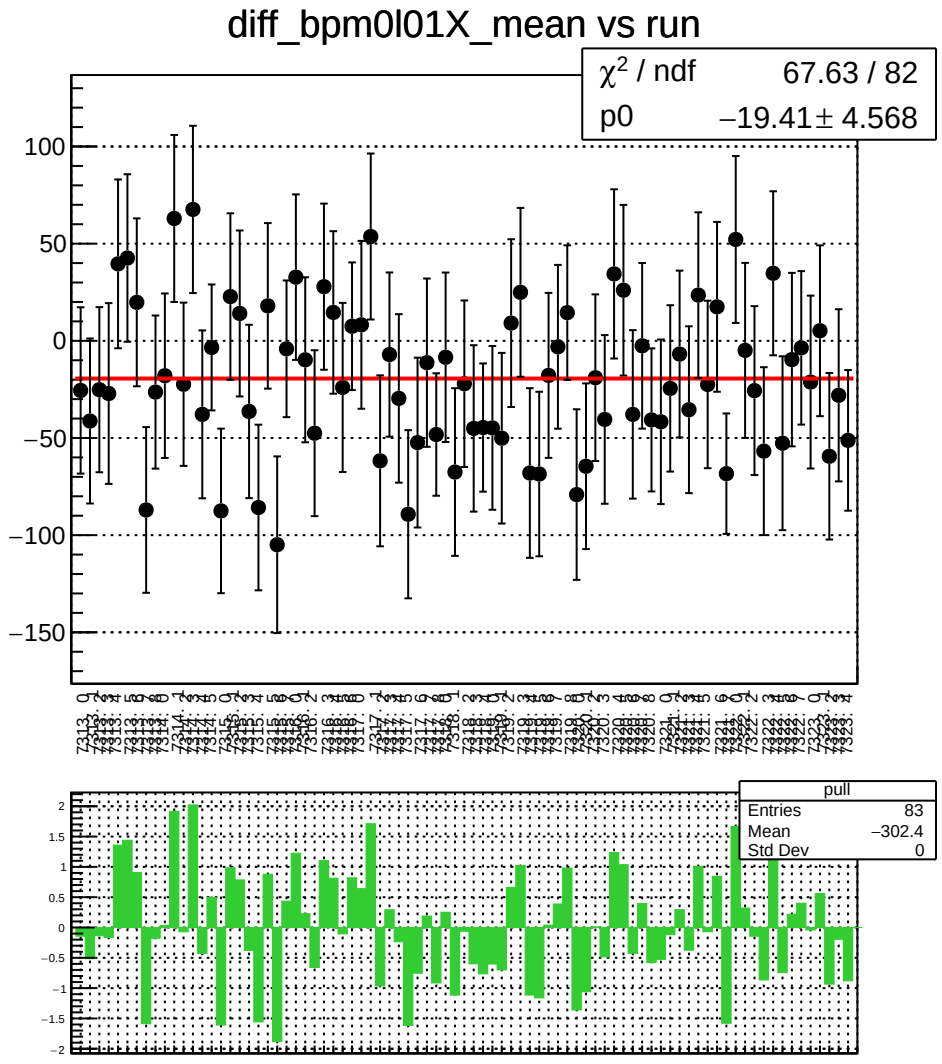

diff_bpm0i01Y_rms vs run
χ² / ndf 1007 / 82
p0 2717 ± 2.141
2800
2700
2600
2500
2400

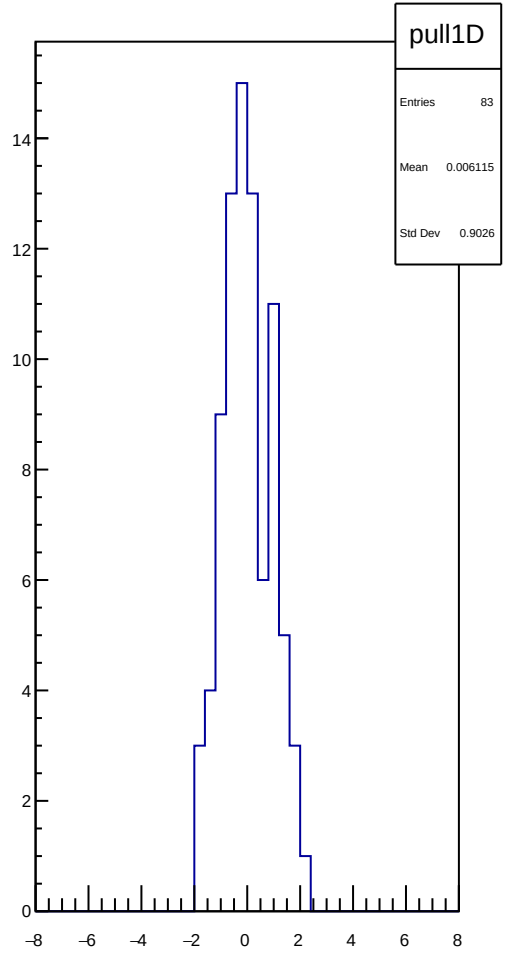

diff_bpm0i01aX_mean vs run
χ² / ndf 70.03 / 82
p0 13.3 ± 2.934
pull
Entries 83
Mean −21.5
Std Dev 0
pull1D
Entries 83
Mean 0.01275
Std Dev 0.9185

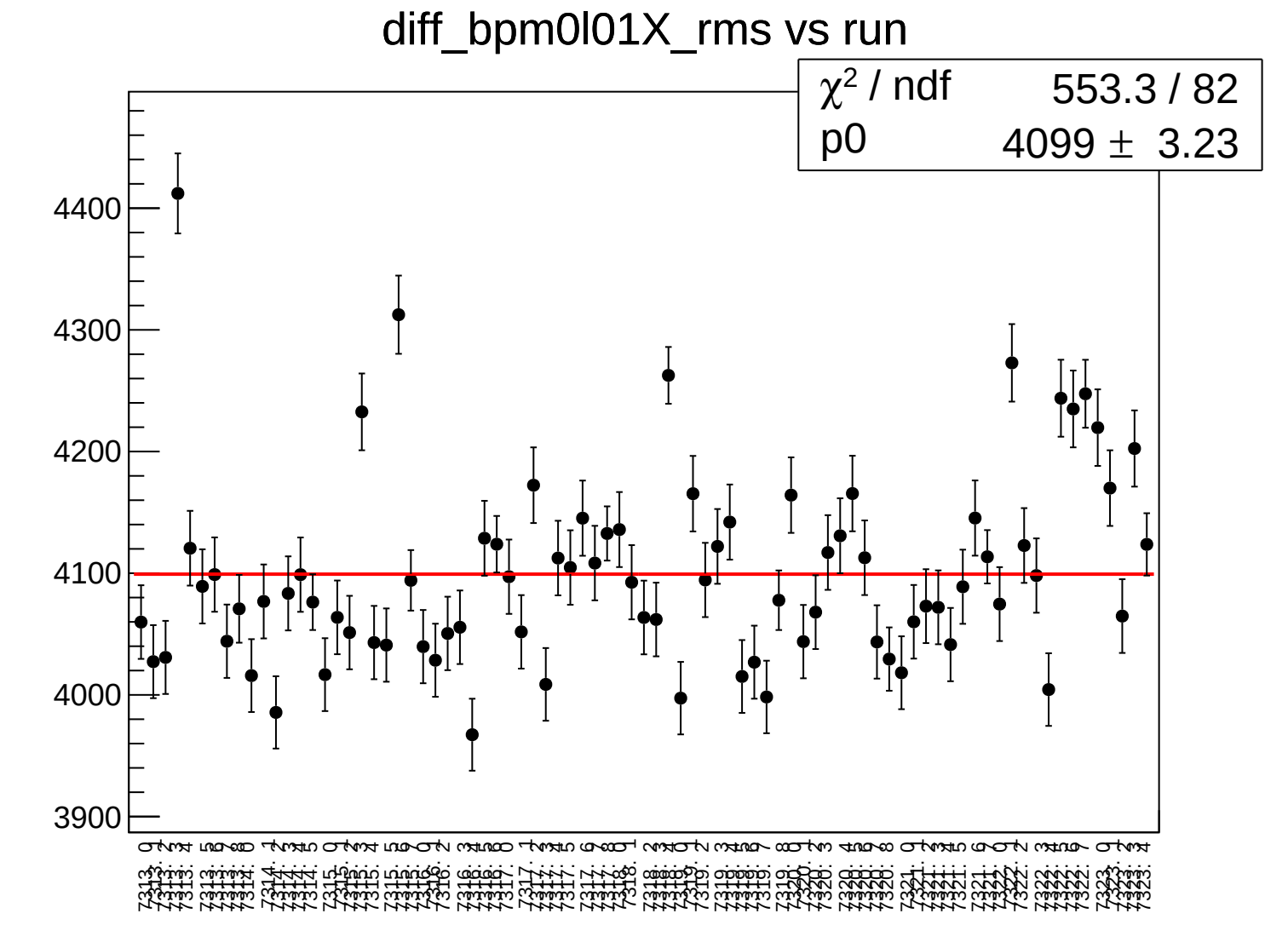

diff_bpm0i01aX_rms vs run
χ² / ndf 838.5 / 82
p0 2633 ± 2.075
2800
2750
2700
2650
2600
2550
2500
2450

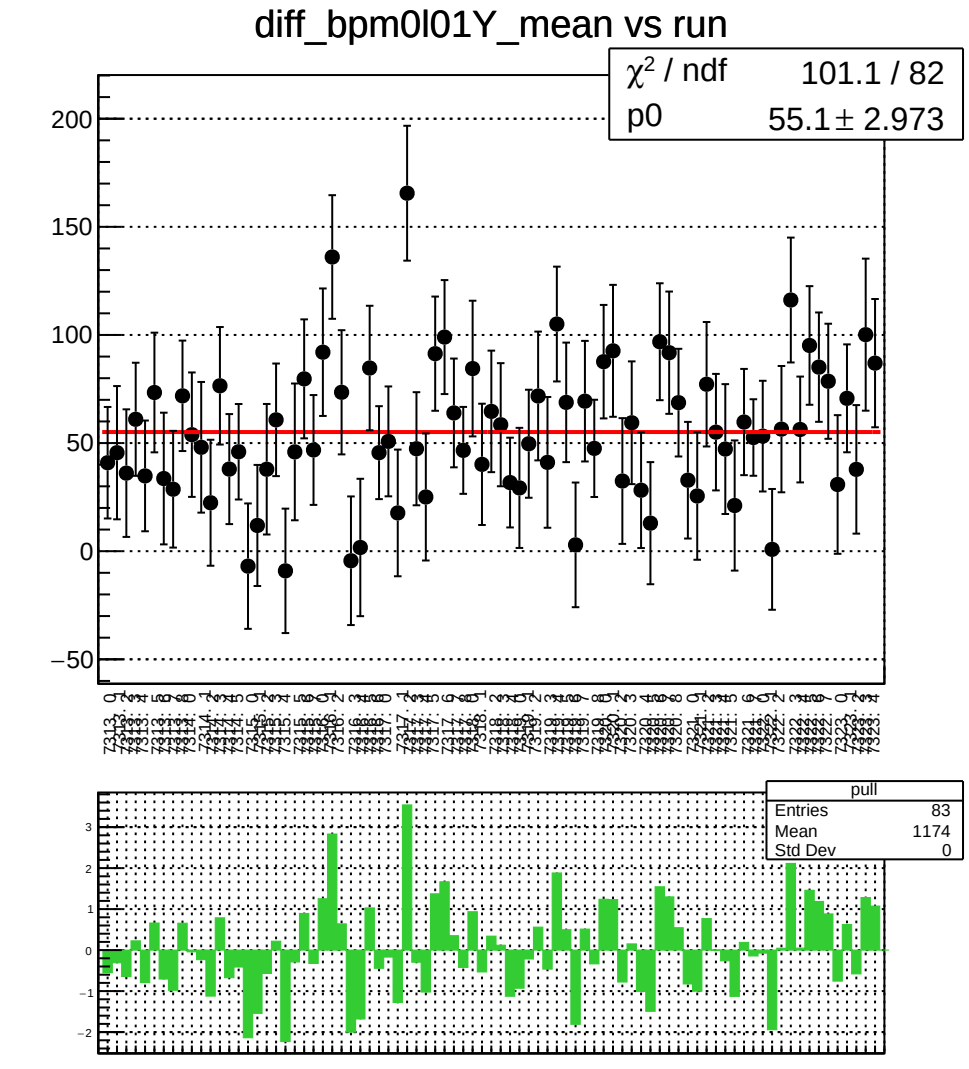

diff_bpm0i01aY_mean vs run
χ² / ndf 81.91 / 82
p0 30.34 ± 2.271
pull
Entries 83
Mean 119.6
Std Dev 0
pull1D
Entries 83
Mean 0.01212
Std Dev 0.9933

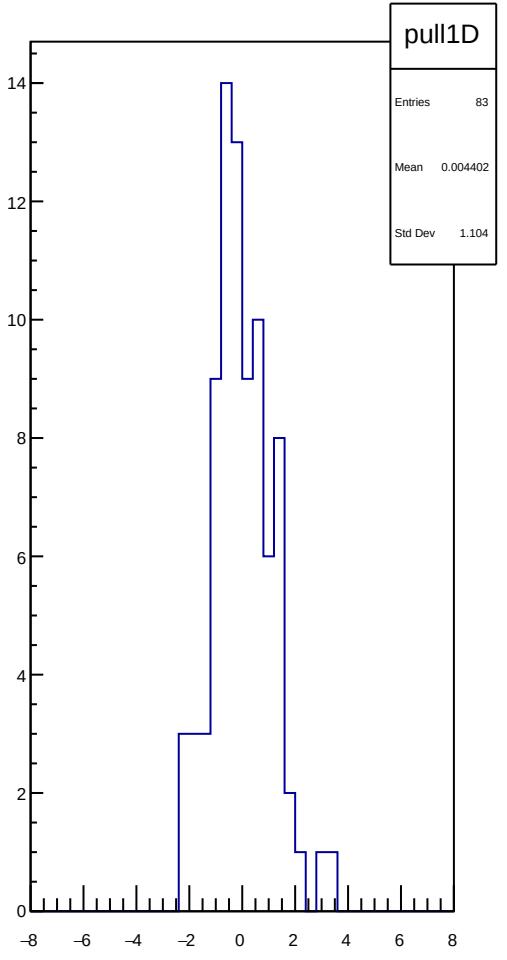

diff_bpm0i01aY_rms vs run
χ² / ndf 754.7 / 82
p0 2038 ± 1.606
2150
2100
2050
2000
1950
1900
1850
1800

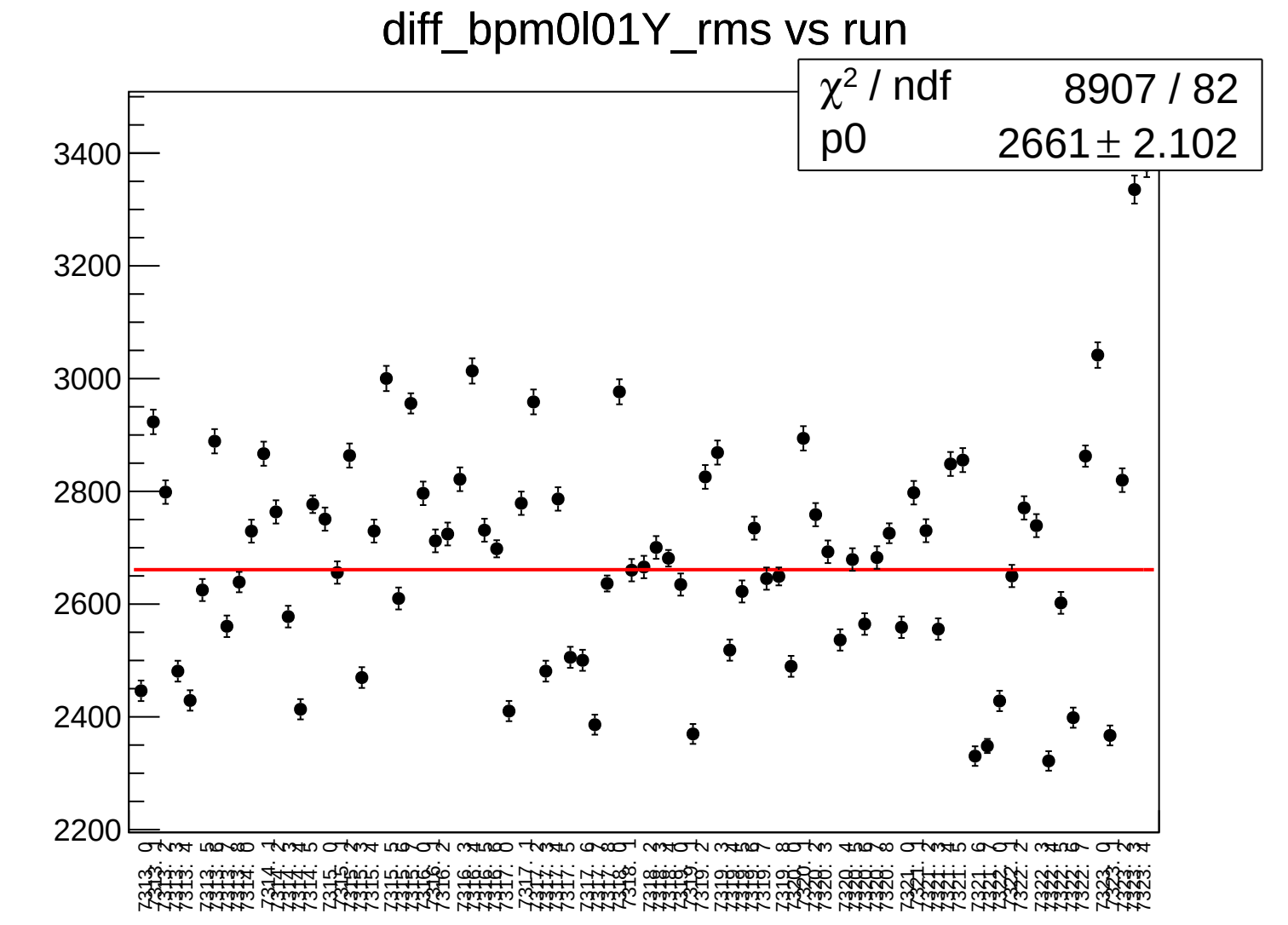

diff_bpm0l01X_mean vs run
χ^2 / ndf 67.63 / 82
p0 −19.41 ± 4.568
pull
Entries 83
Mean −302.4
Std Dev 0

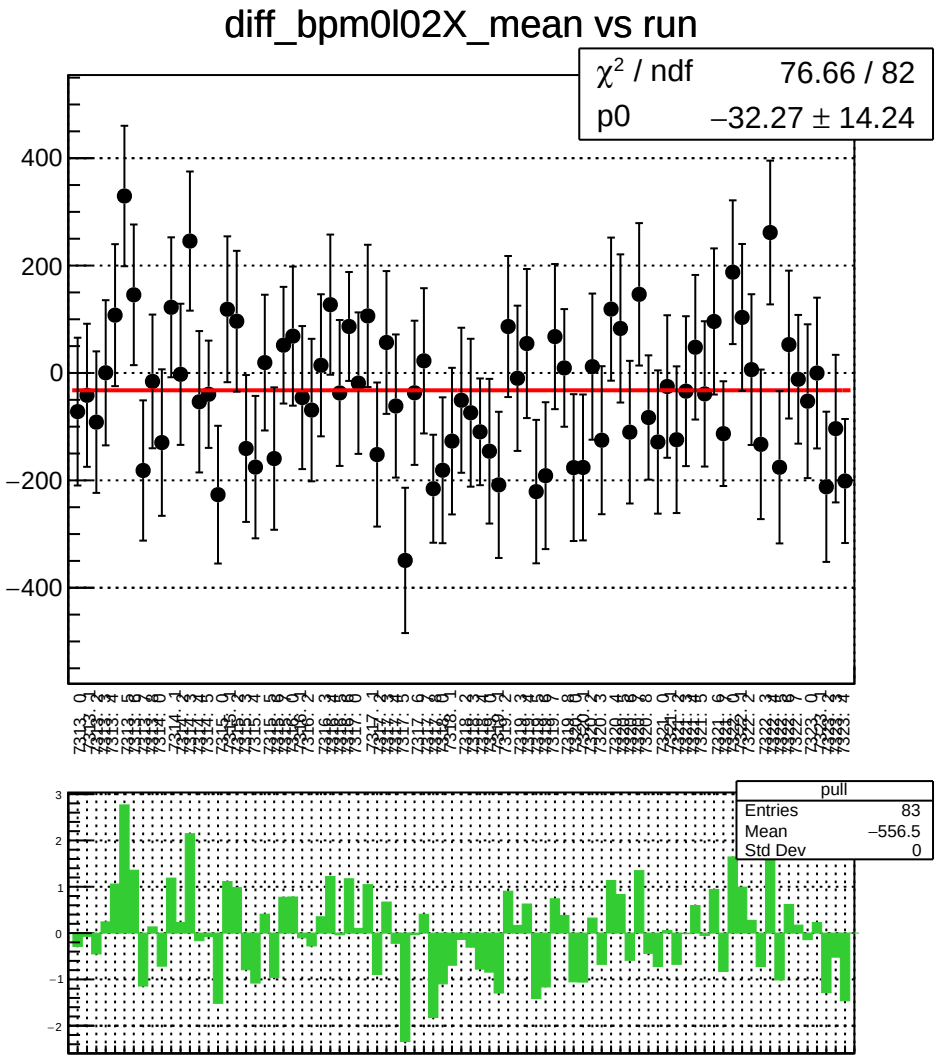

pull1D
Entries 83
Mean 0.006115
Std Dev 0.9026

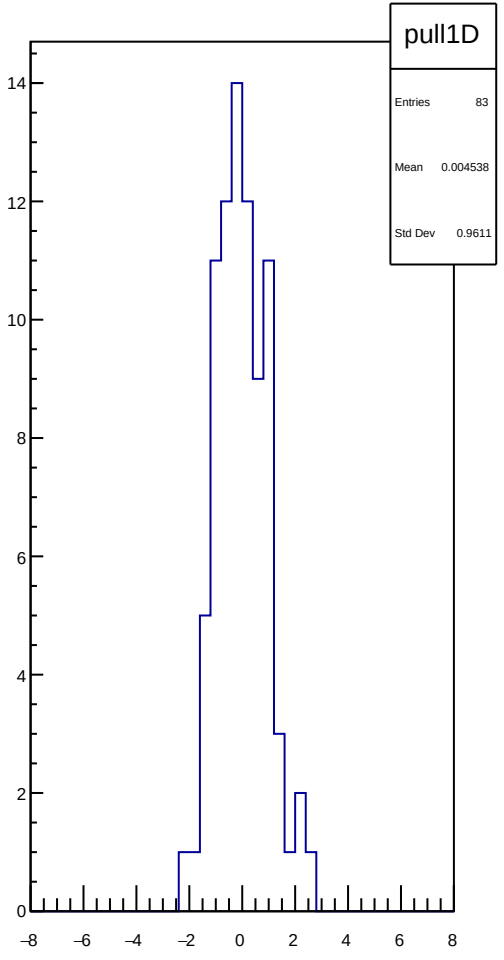

diff_bpm0l01X_rms vs run
χ² / ndf 553.3 / 82
p0 4099 ± 3.23
4400
4300
4200
4100
4000
3900

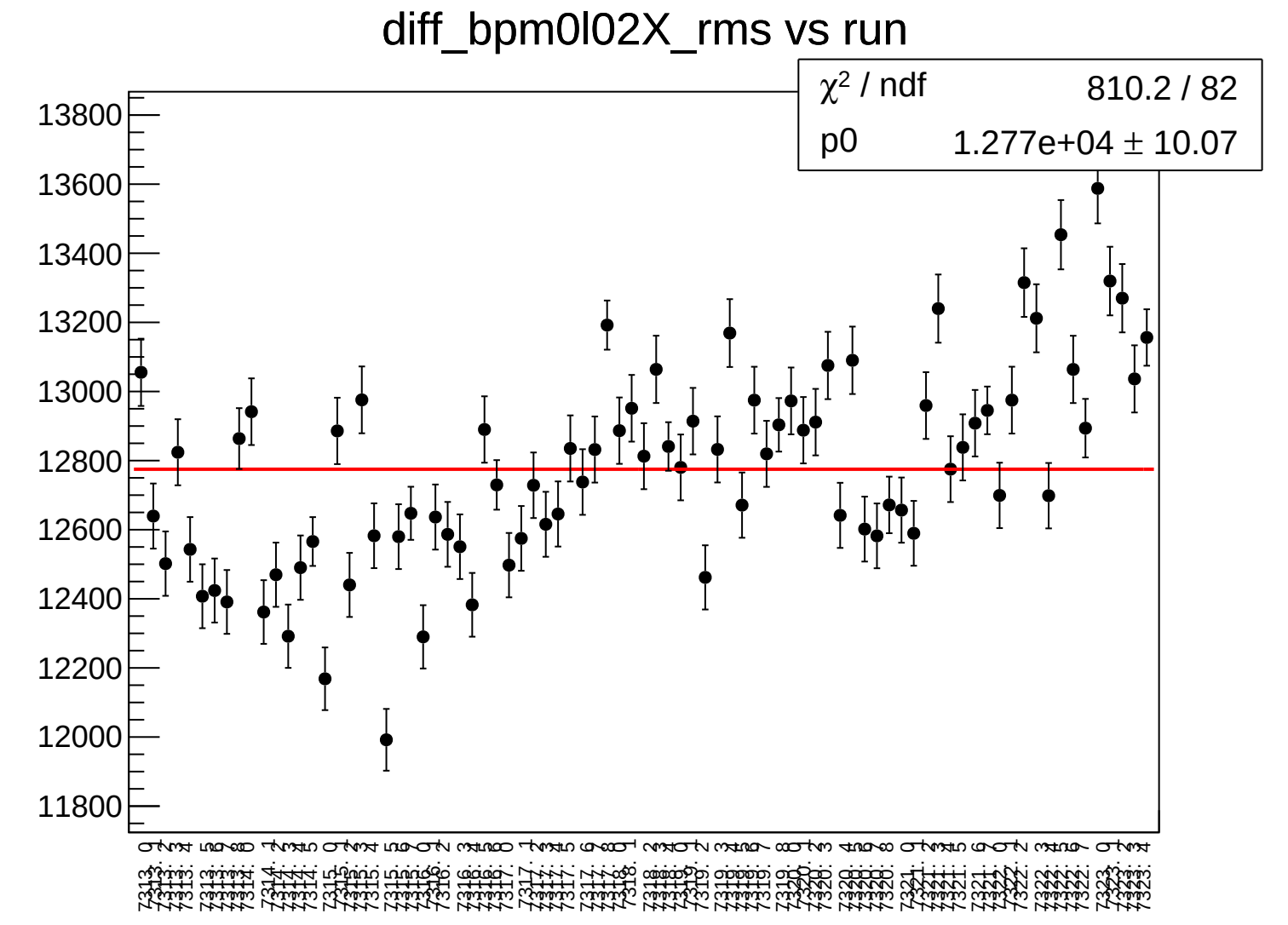

diff_bpm0l01Y_mean vs run
χ² / ndf 101.1 / 82
p0 55.1 ± 2.973
pull
Entries 83
Mean 1174
Std Dev 0

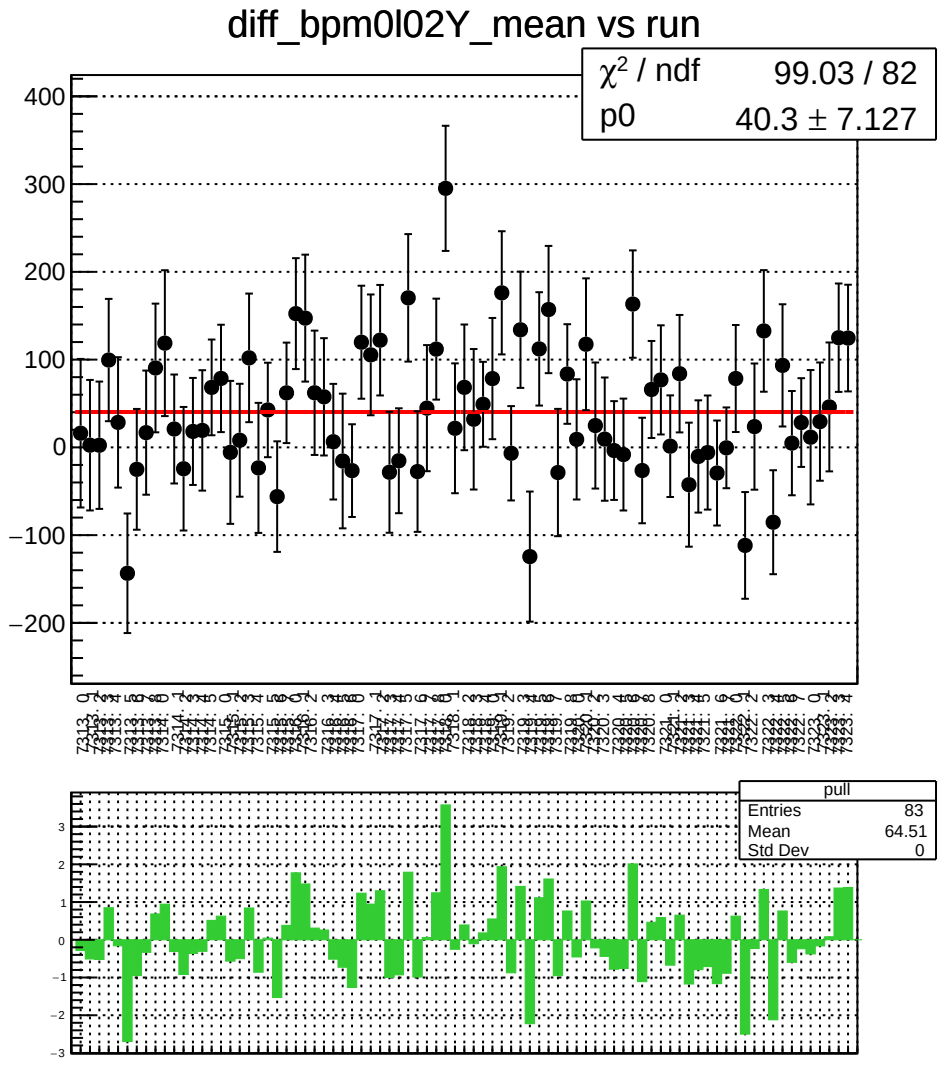

pull1D
Entries 83
Mean 0.004402
Std Dev 1.104

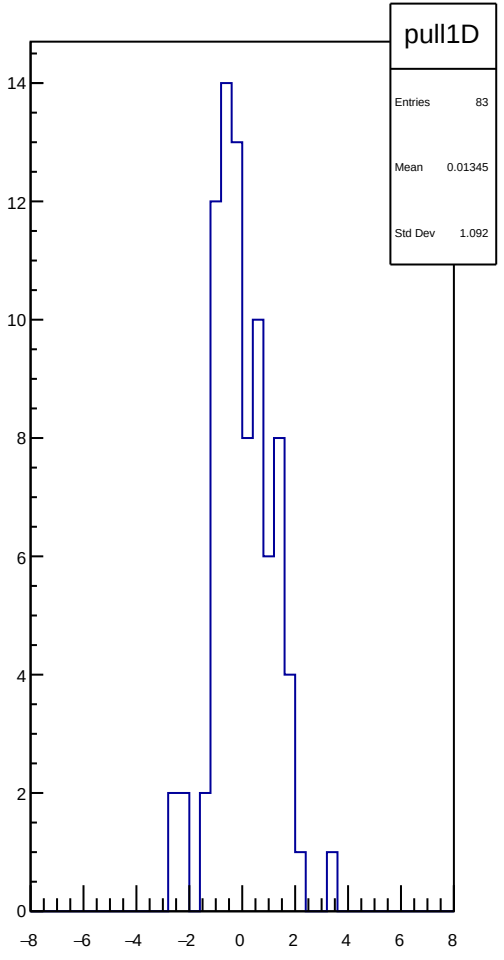

diff_bpm0l01Y_rms vs run
χ² / ndf 8907 / 82
p0 2661 ± 2.102
3400
3200
3000
2800
2600
2400
2200

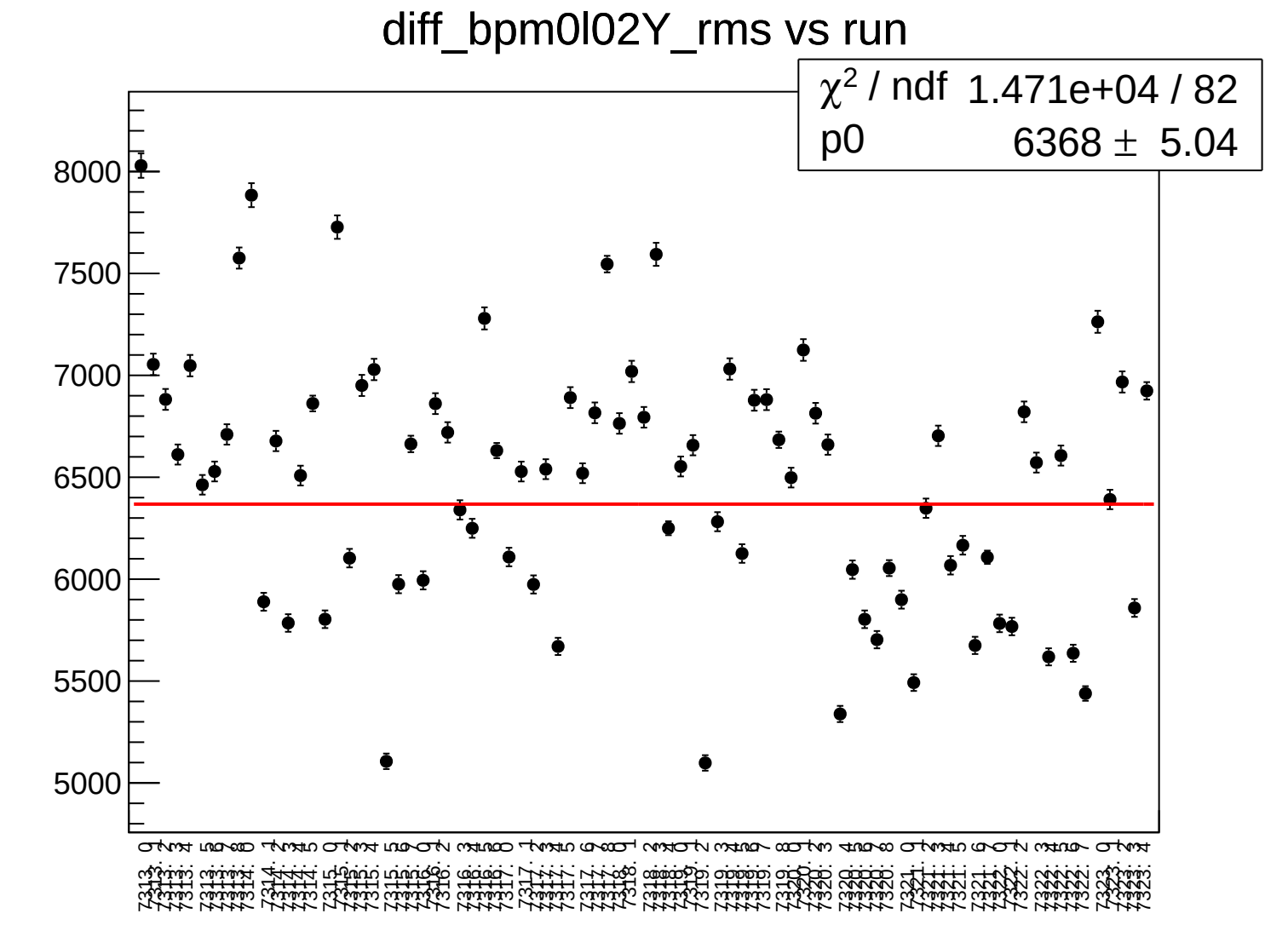

diff_bpm0l02X_mean vs run
χ² / ndf 76.66 / 82
p0 −32.27 ± 14.24
400
200
0
−200
−400
pull
Entries 83
Mean −556.5
Std Dev 0
3
2
1
0
−1
−2

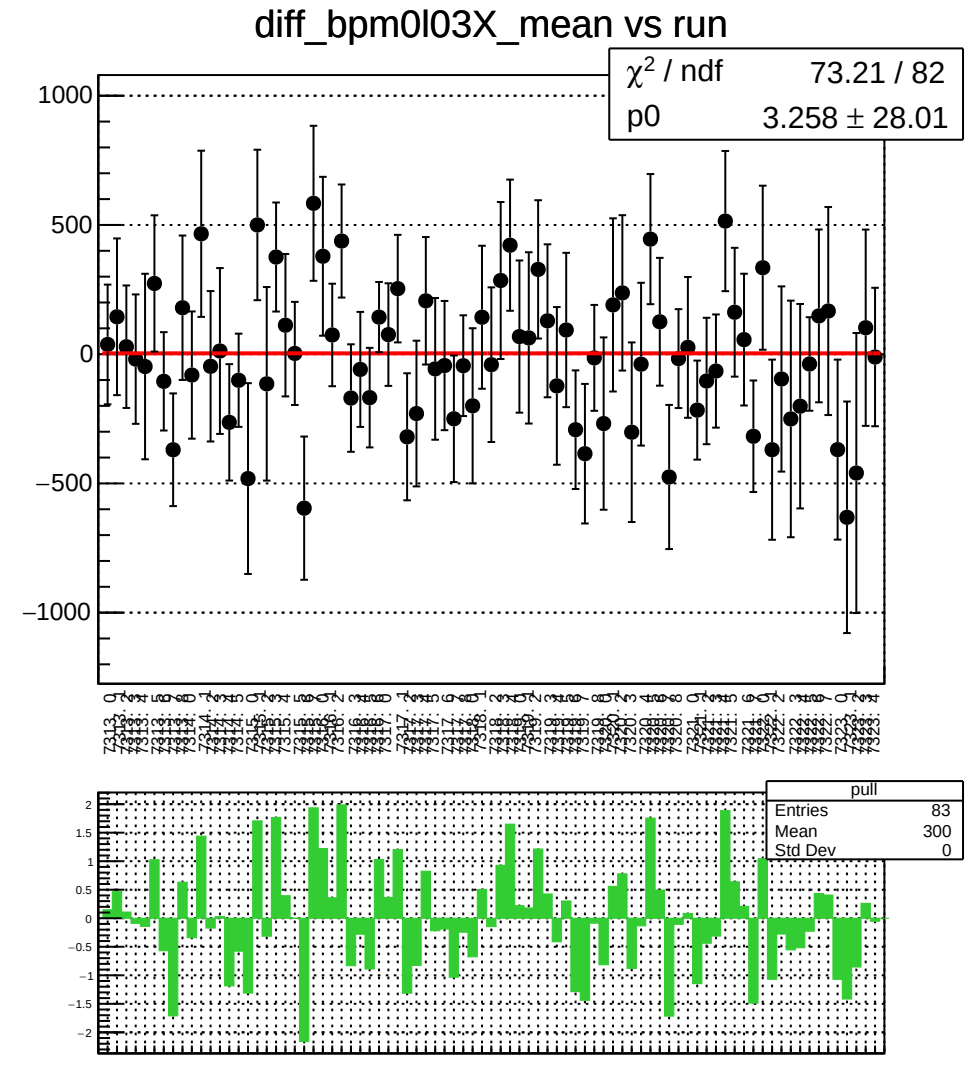

pull1D
Entries 83
Mean 0.004538
Std Dev 0.9611
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

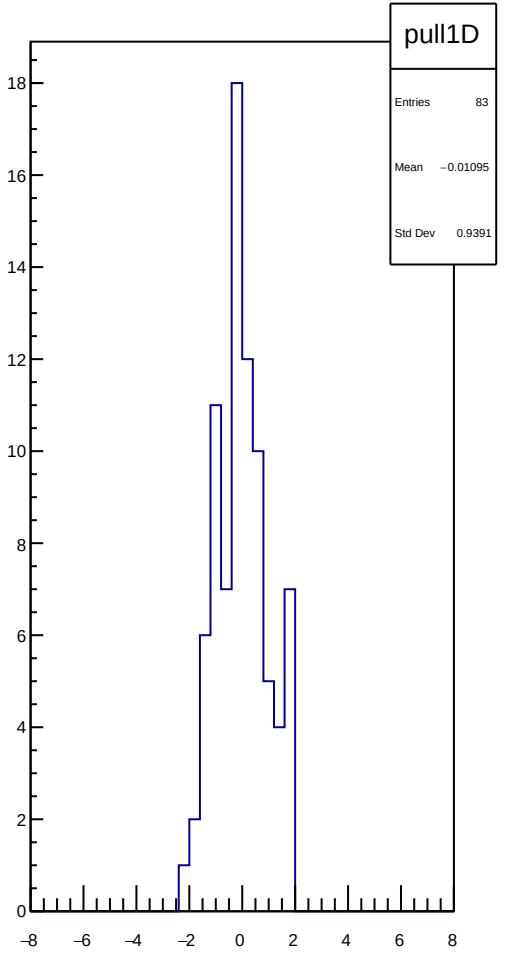

diff_bpm0l02X_rms vs run
χ² / ndf 810.2 / 82
p0 1.277e+04 ± 10.07
13800
13600
13400
13200
13000
12800
12600
12400
12200
12000
11800

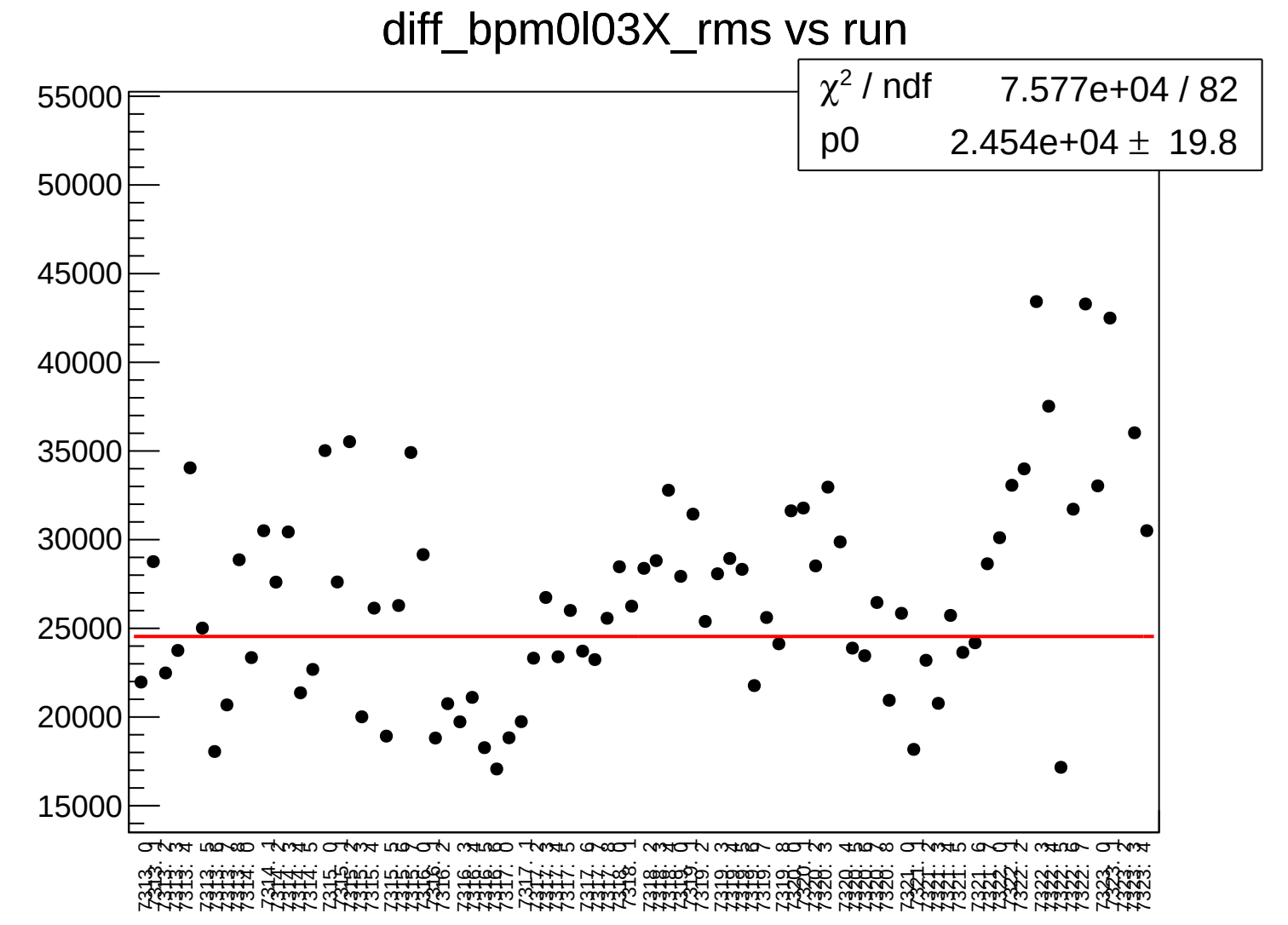

diff_bpm0l02Y_mean vs run
χ² / ndf 99.03 / 82
p0 40.3 ± 7.127
pull
Entries 83
Mean 64.51
Std Dev 0

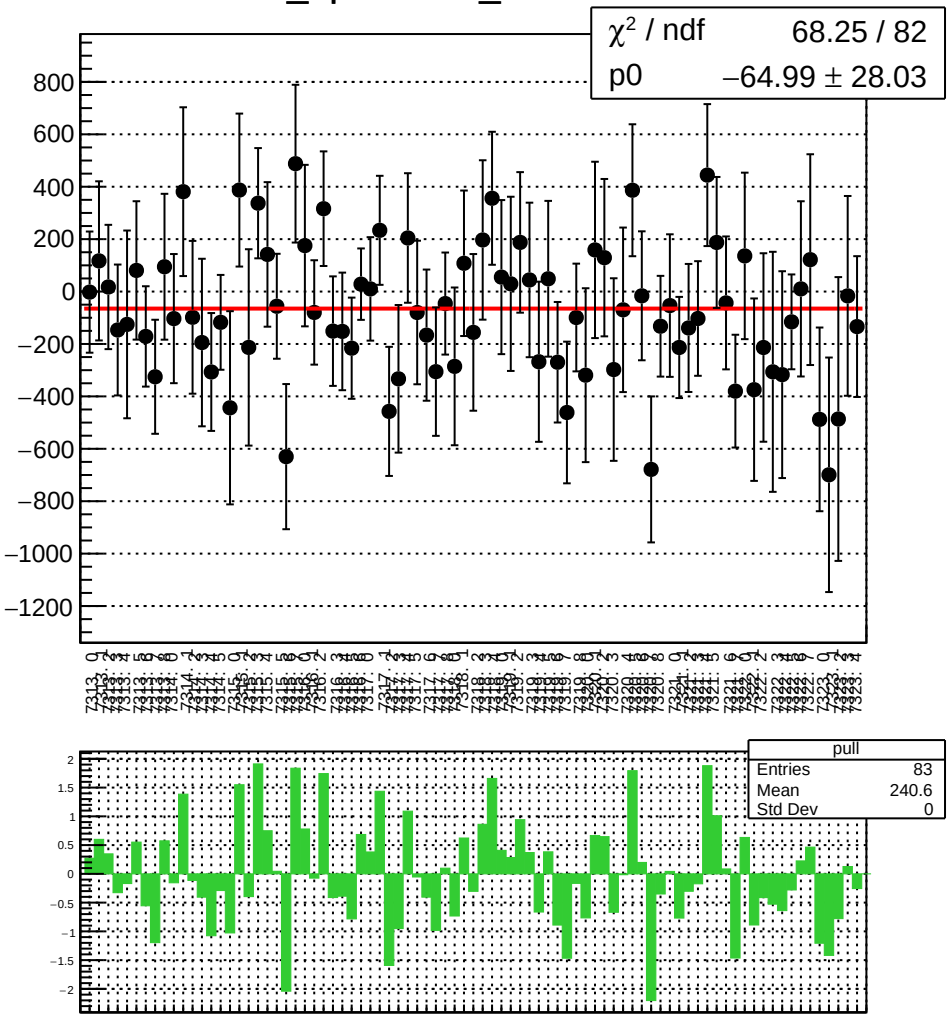

pull1D
Entries 83
Mean 0.01345
Std Dev 1.092

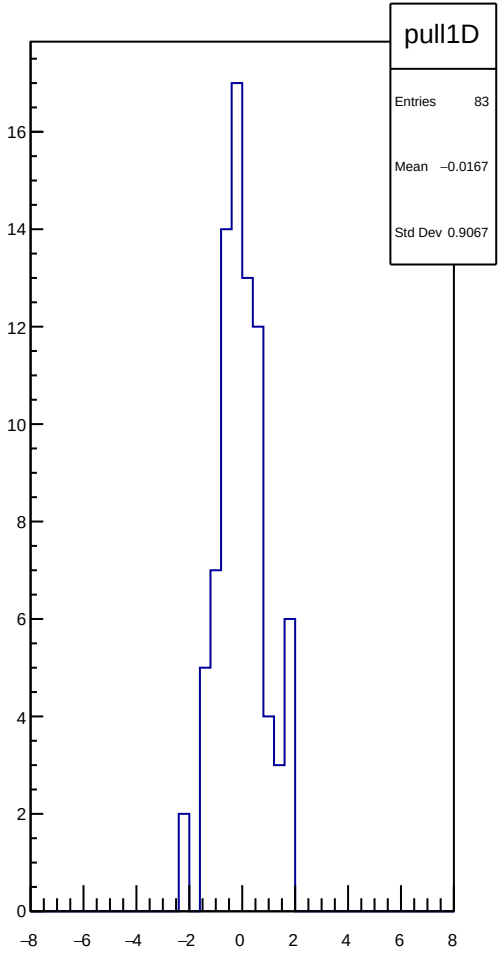

diff_bpm0l02Y_rms vs run
χ² / ndf 1.471e+04 / 82
p0 6368 ± 5.04
8000
7500
7000
6500
6000
5500
5000

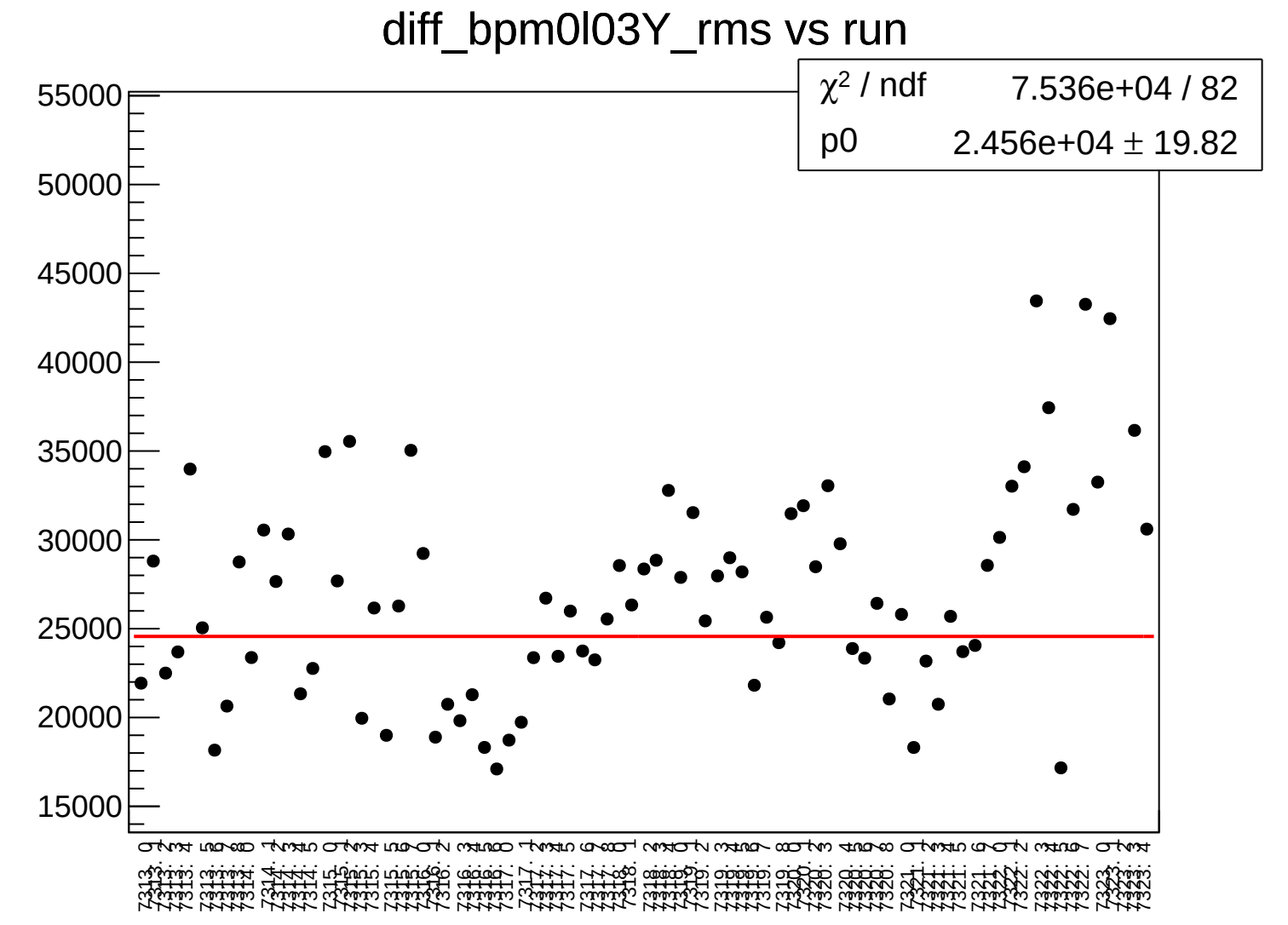

diff_bpm0l03X_mean vs run
χ^2 / ndf 73.21 / 82
p0 3.258 ± 28.01
1000
500
0
−500
−1000
pull
Entries 83
Mean 300
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

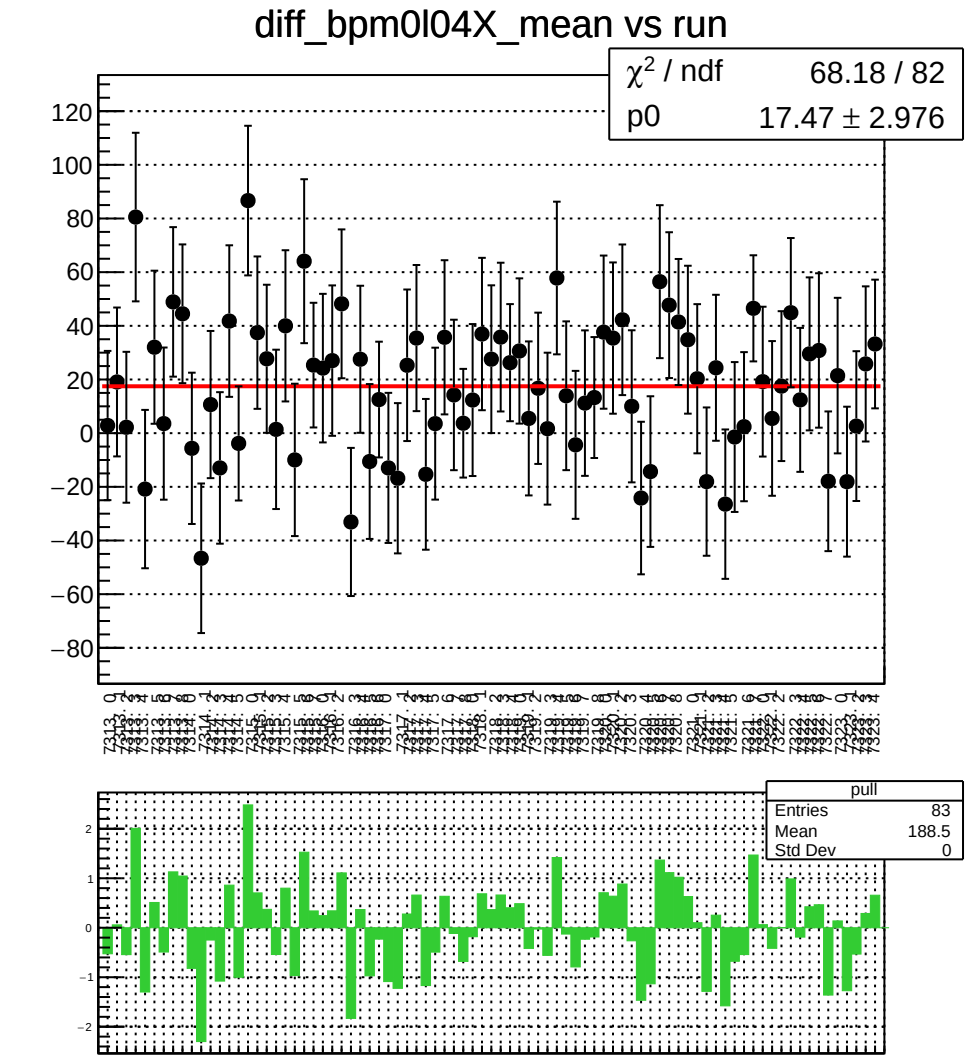

pull1D
Entries 83
Mean −0.01095
Std Dev 0.9391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

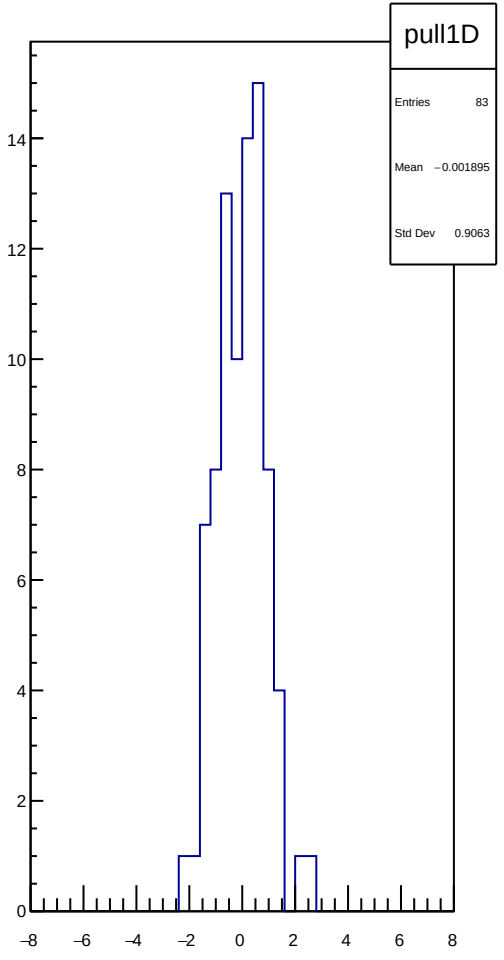

diff_bpm0l03X_rms vs run
χ² / ndf 7.577e+04 / 82
p0 2.454e+04 ± 19.8
55000
50000
45000
40000
35000
30000
25000
20000
15000

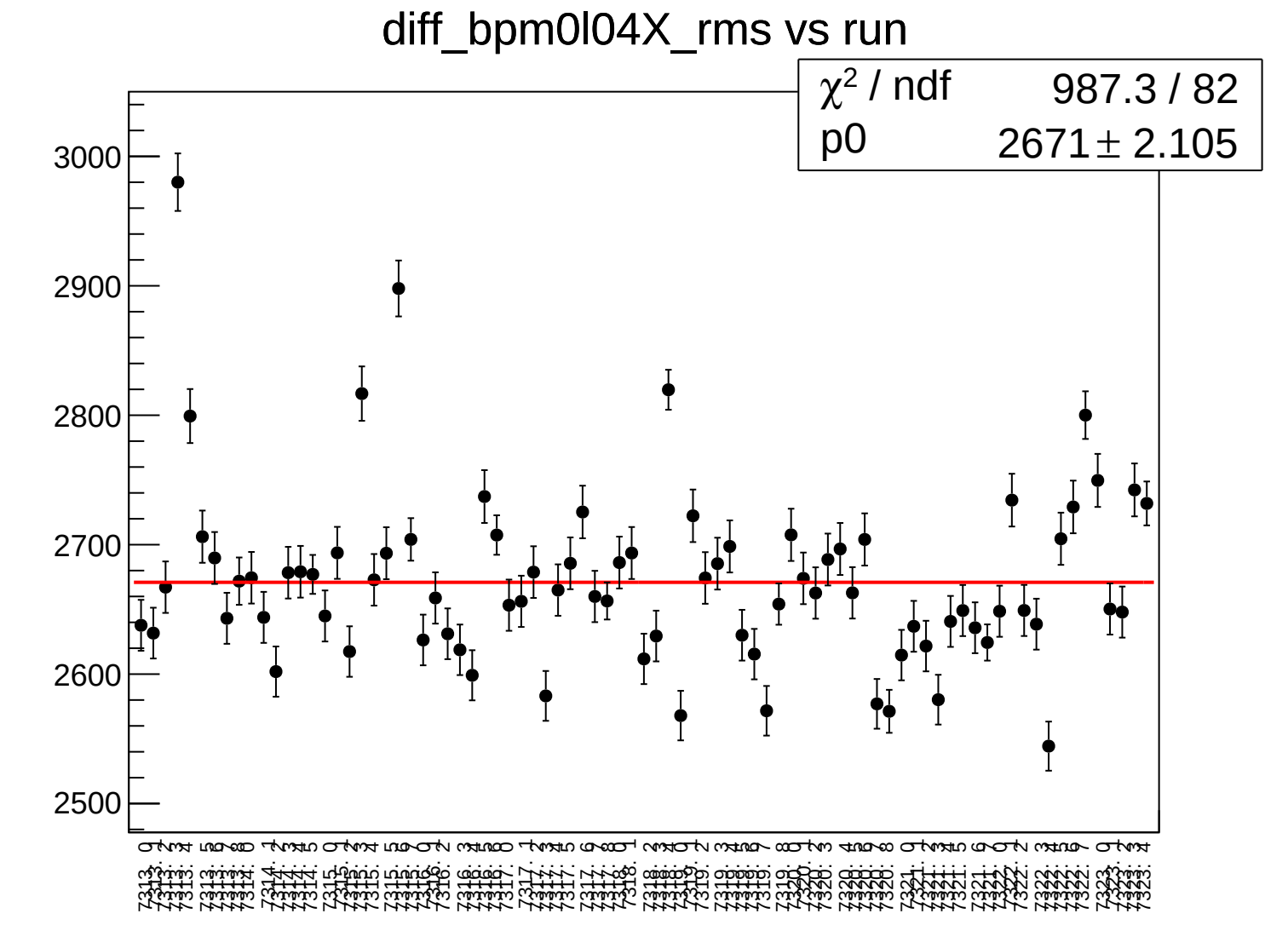

diff_bpm0l03Y_mean vs run
χ² / ndf 68.25 / 82
p0 −64.99 ± 28.03
pull
Entries 83
Mean 240.6
Std Dev 0

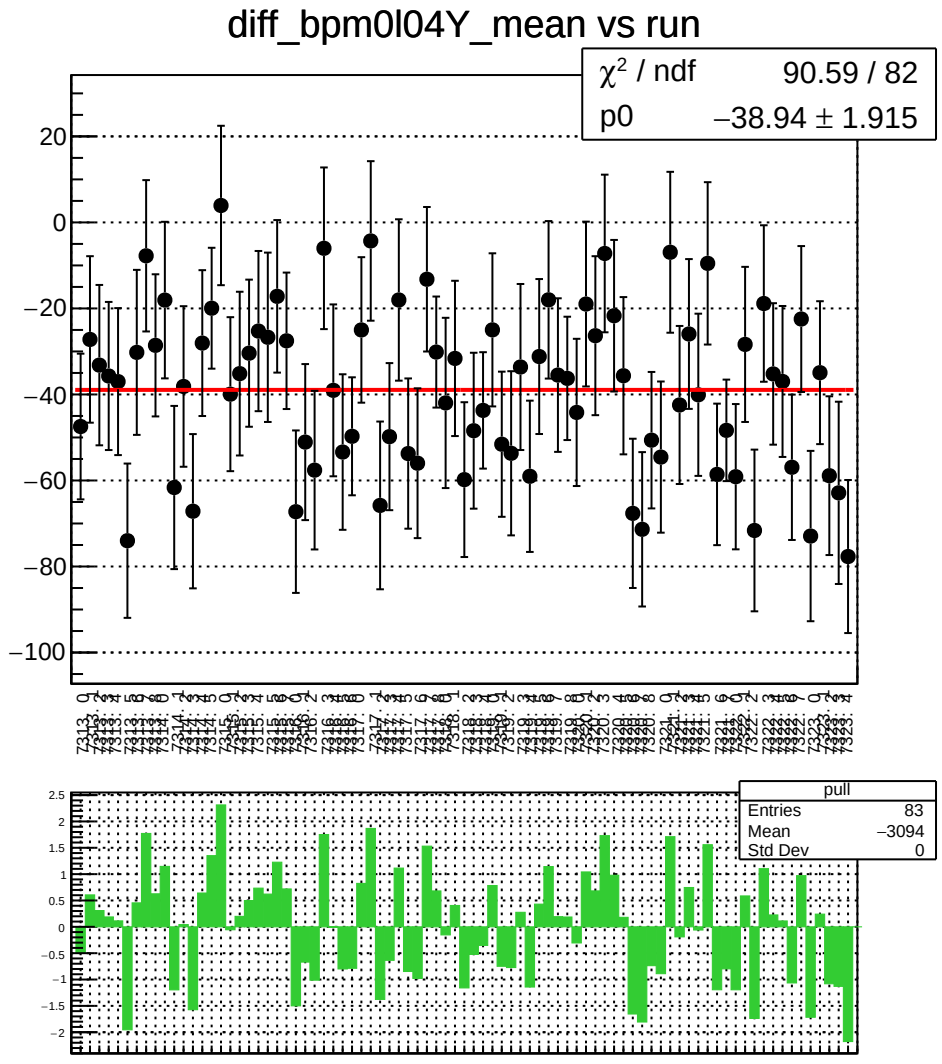

pull1D
Entries 83
Mean −0.0167
Std Dev 0.9067

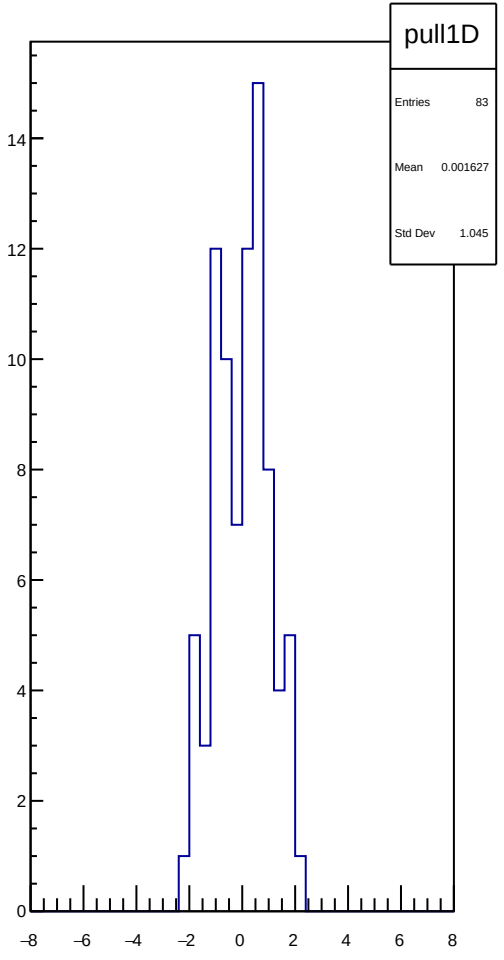

diff_bpm0l03Y_rms vs run
χ² / ndf 7.536e+04 / 82
p0 2.456e+04 ± 19.82
55000
50000
45000
40000
35000
30000
25000
20000
15000

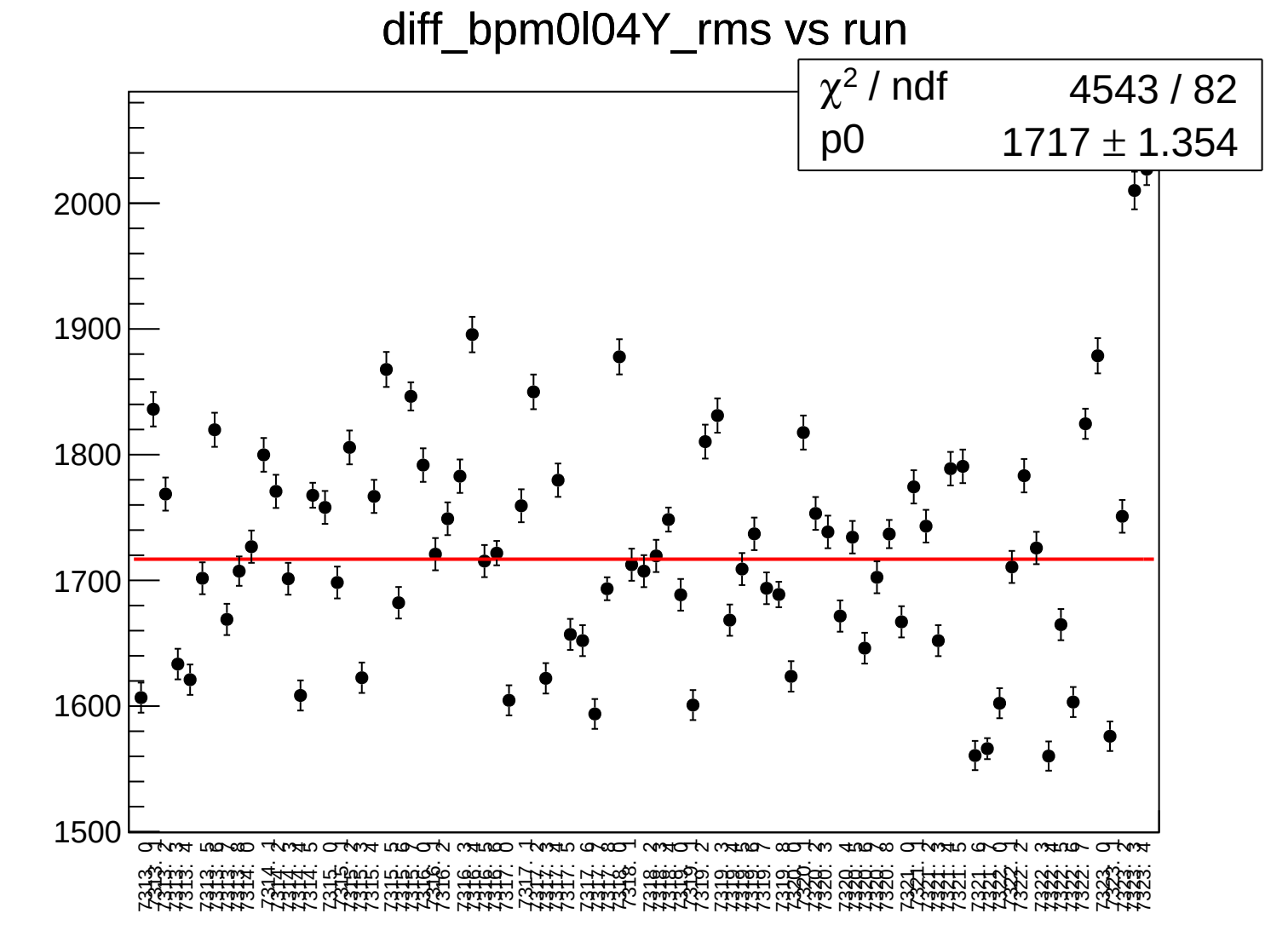

diff_bpm0l04X_mean vs run
χ^2 / ndf 68.18 / 82
p0 17.47 ± 2.976
pull
Entries 83
Mean 188.5
Std Dev 0

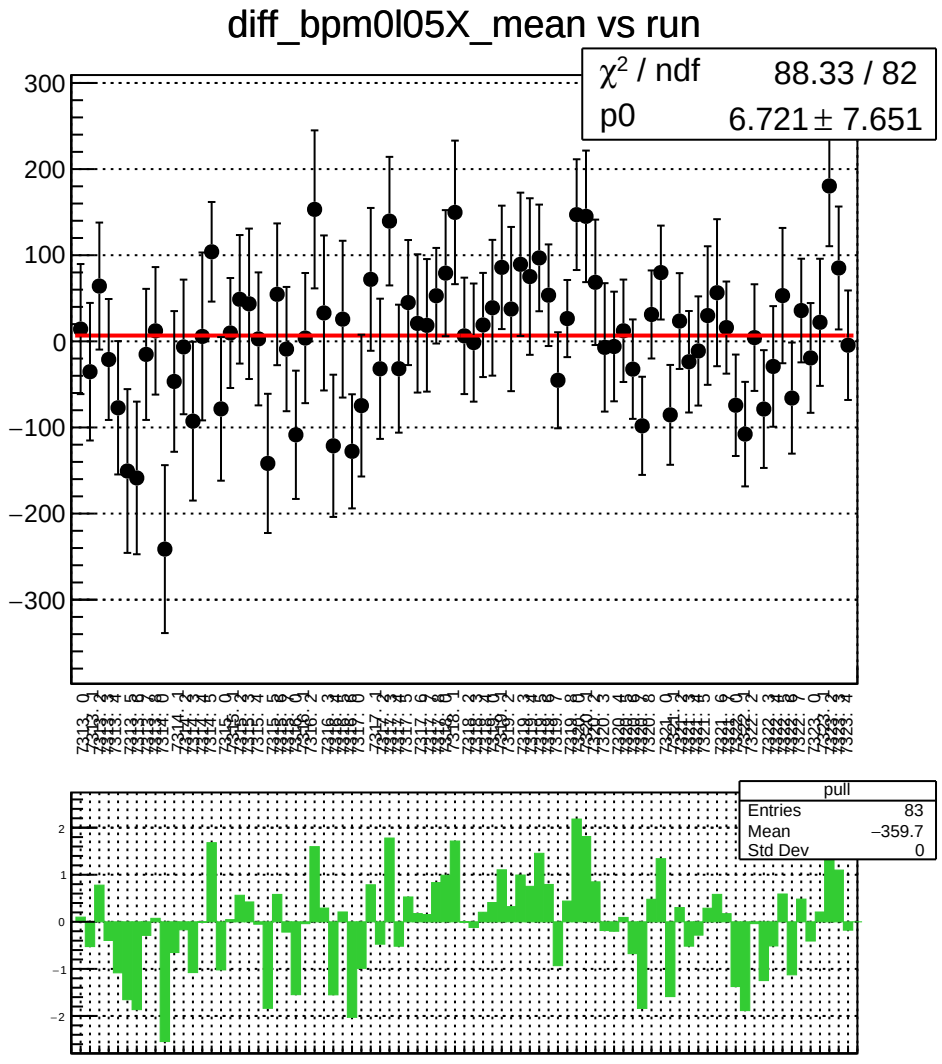

pull1D
Entries 83
Mean −0.001895
Std Dev 0.9063

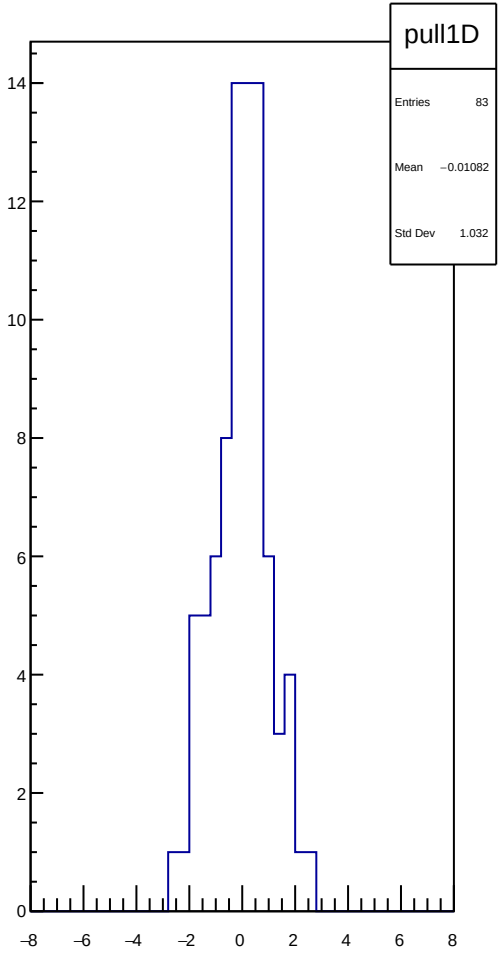

diff_bpm0l04X_rms vs run
χ² / ndf 987.3 / 82
p0 2671 ± 2.105
3000
2900
2800
2700
2600
2500

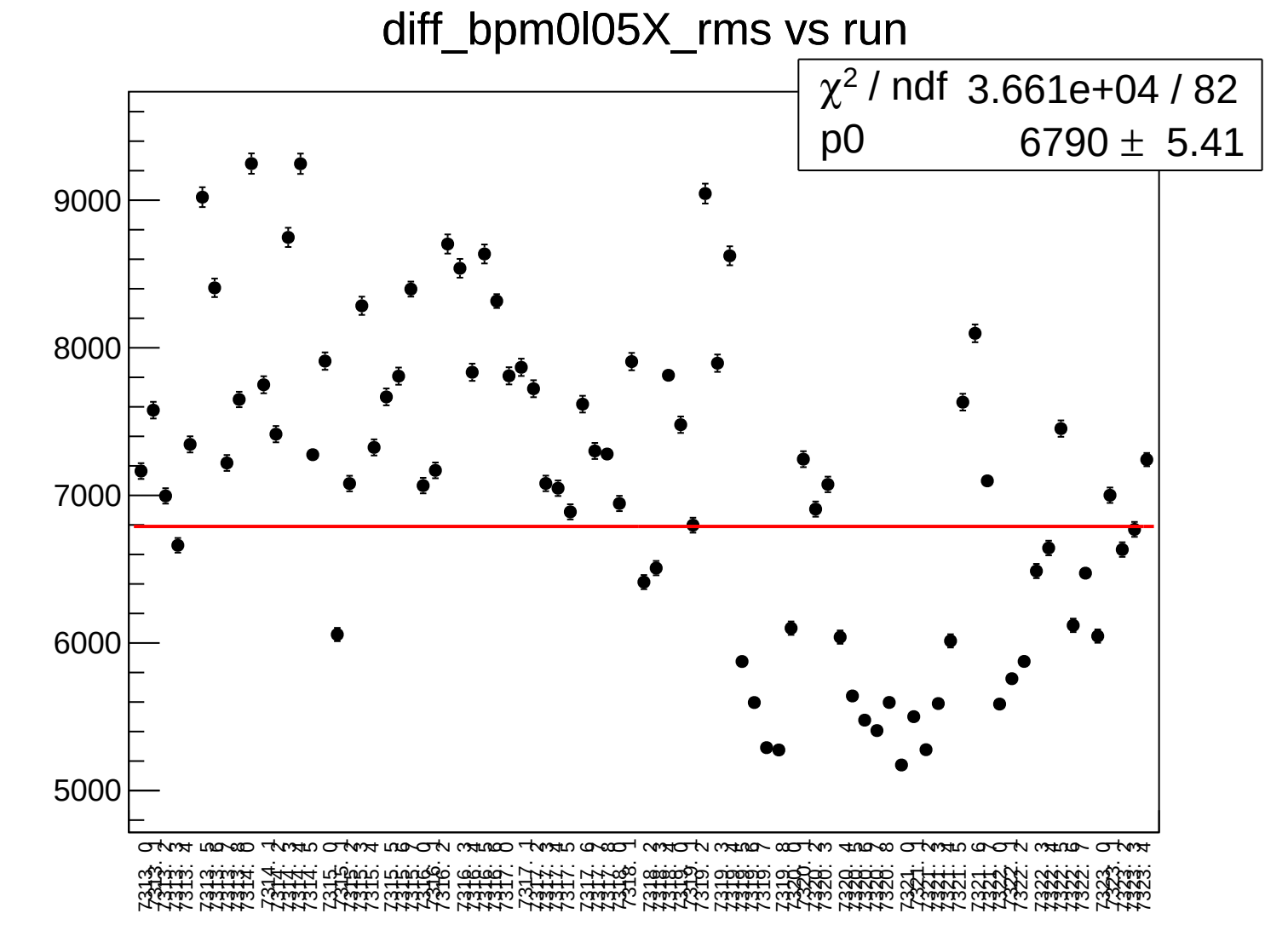

diff_bpm0l04Y_mean vs run
χ^2 / ndf 90.59 / 82
p0 −38.94 ± 1.915
pull
Entries 83
Mean −3094
Std Dev 0

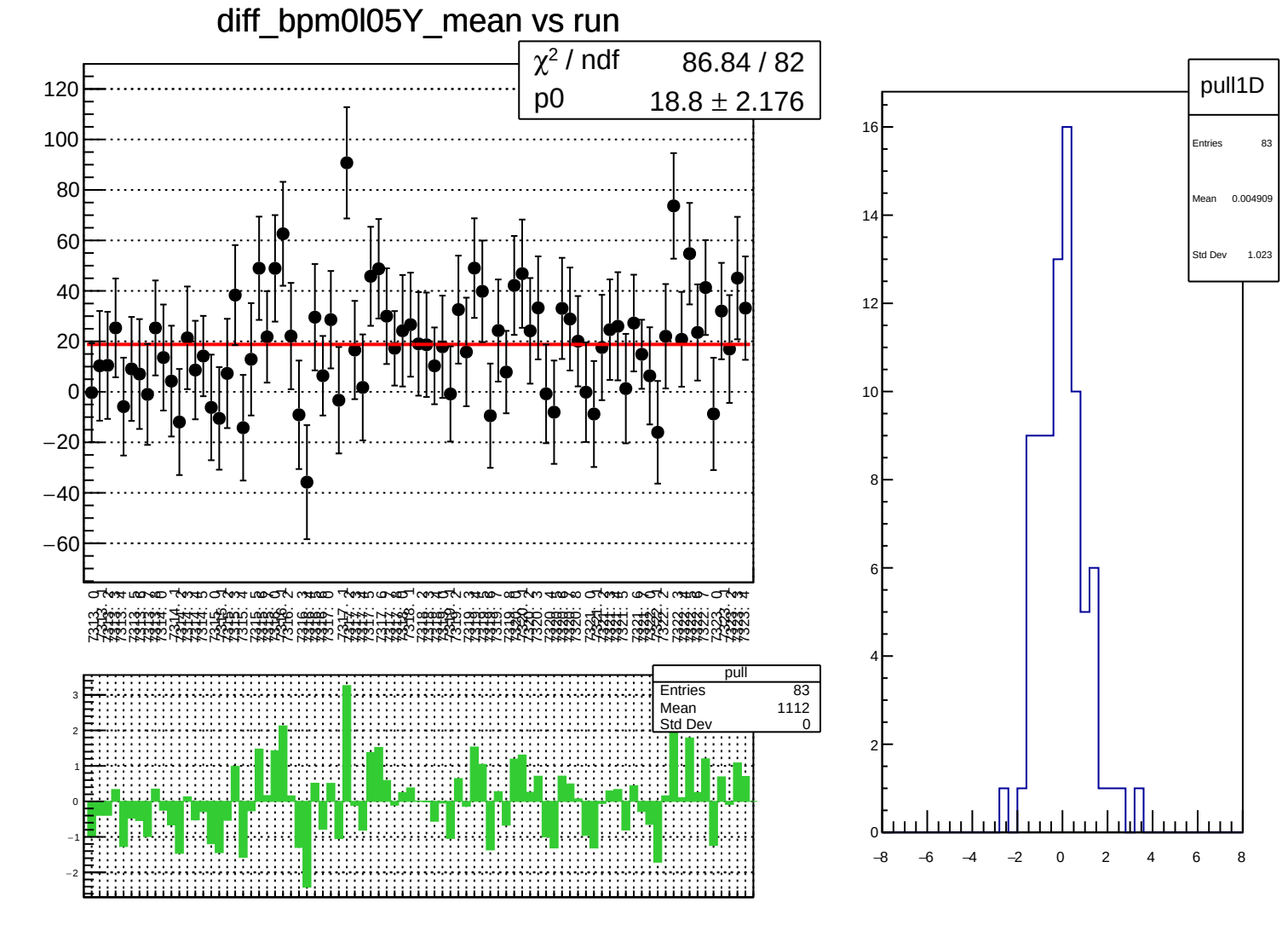

pull1D
Entries 83
Mean 0.001627
Std Dev 1.045

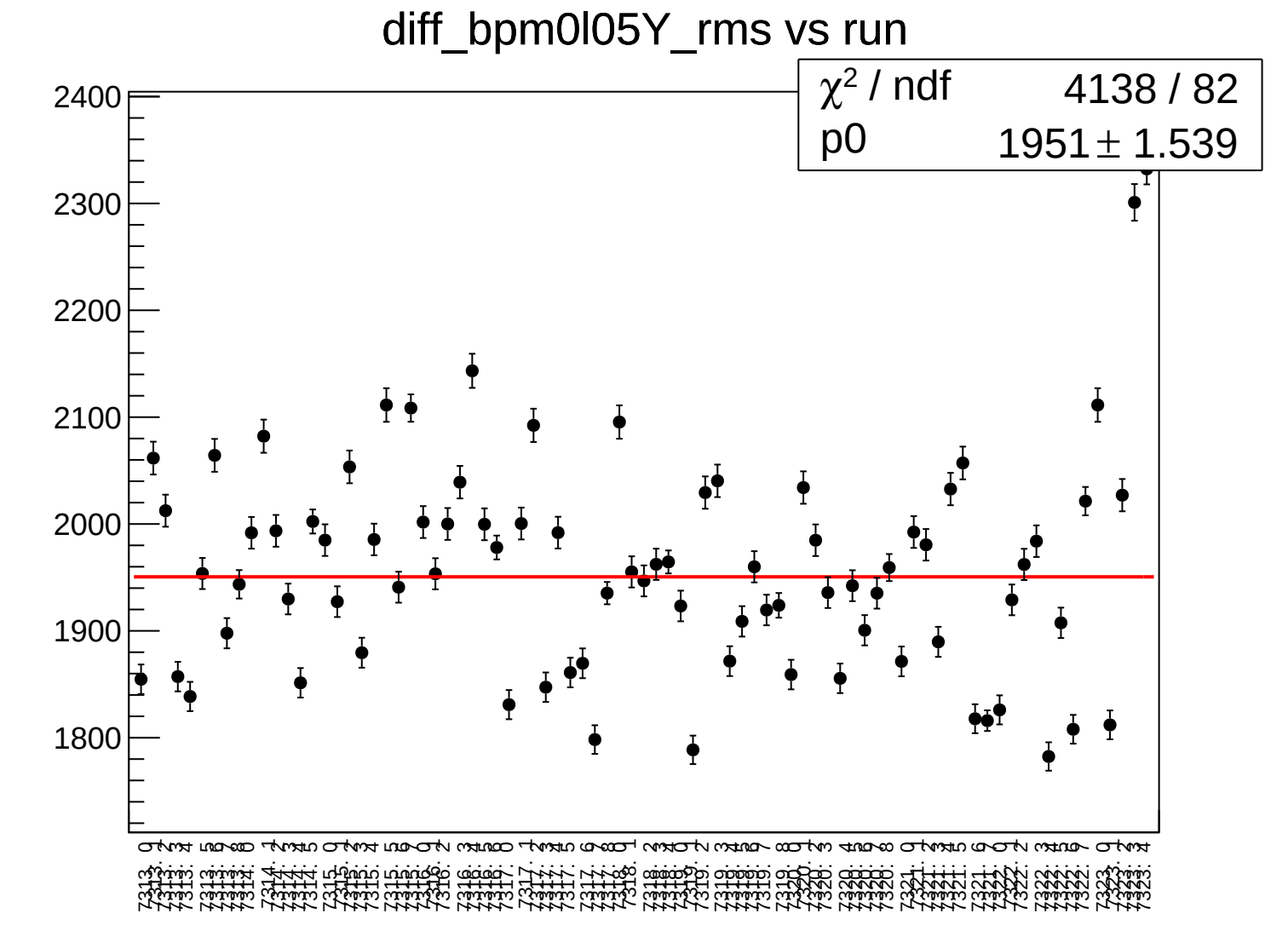

diff_bpm0l04Y_rms vs run
χ² / ndf 4543 / 82
p0 1717 ± 1.354
2000
1900
1800
1700
1600
1500

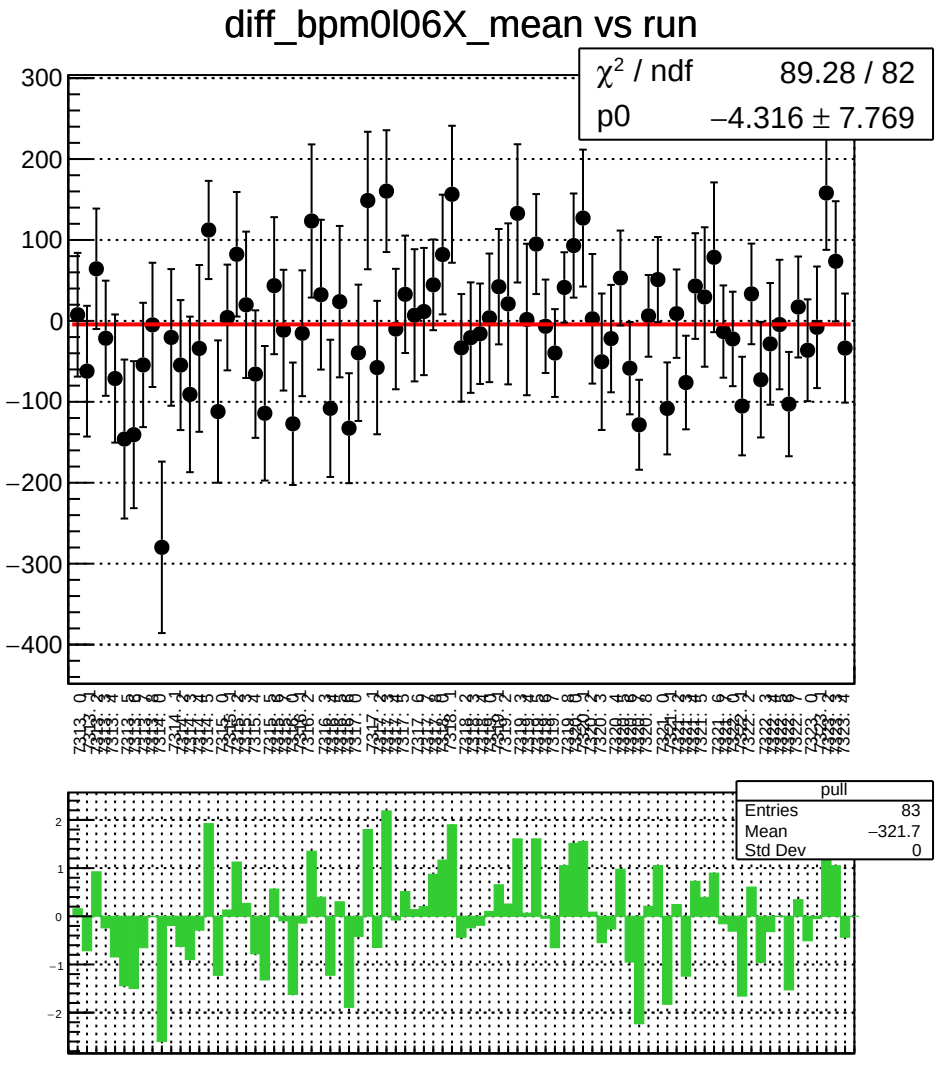

diff_bpm0l05X_mean vs run
χ^2 / ndf 88.33 / 82
p0 6.721 ± 7.651
pull
Entries 83
Mean −359.7
Std Dev 0

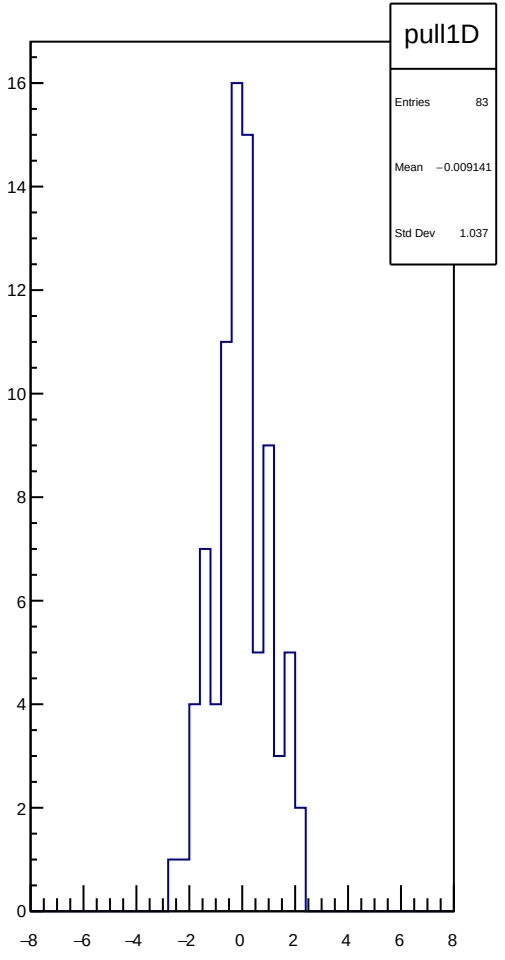

pull1D
Entries 83
Mean −0.01082
Std Dev 1.032

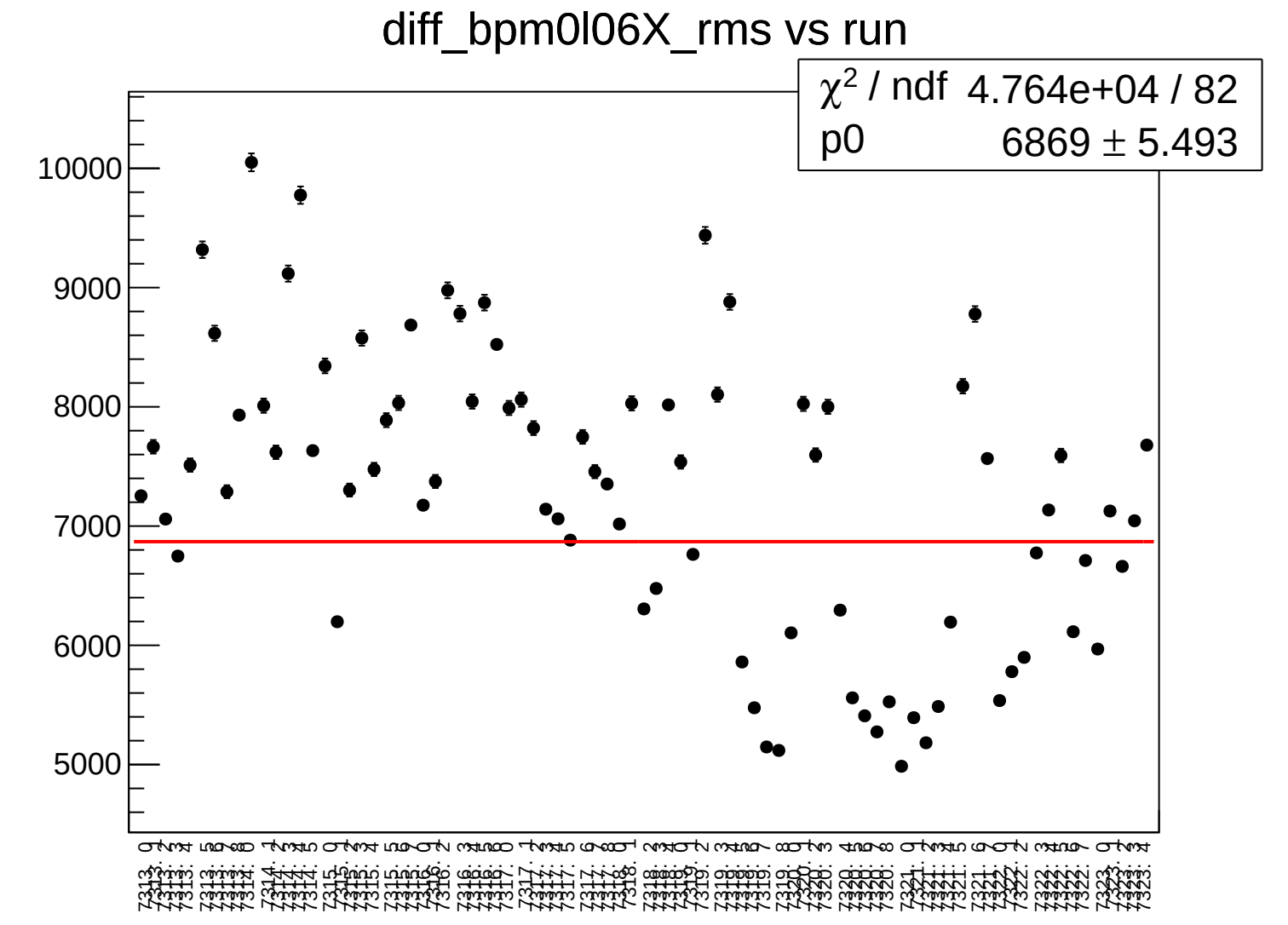

diff_bpm0l05X_rms vs run
χ² / ndf 3.661e+04 / 82
p0 6790 ± 5.41
9000
8000
7000
6000
5000

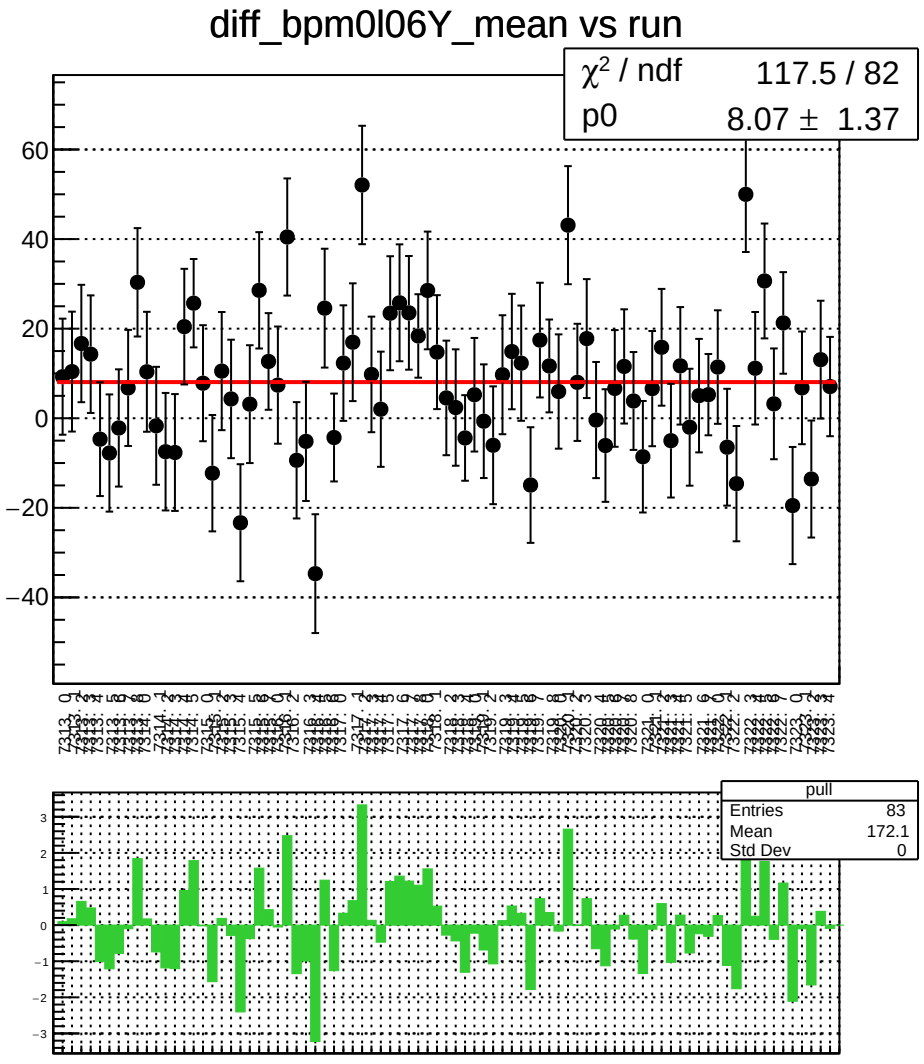

diff_bpm0l05Y_mean vs run
χ² / ndf 86.84 / 82
p0 18.8 ± 2.176
pull
Entries 83
Mean 1112
Std Dev 0
pull1D
Entries 83
Mean 0.004909
Std Dev 1.023

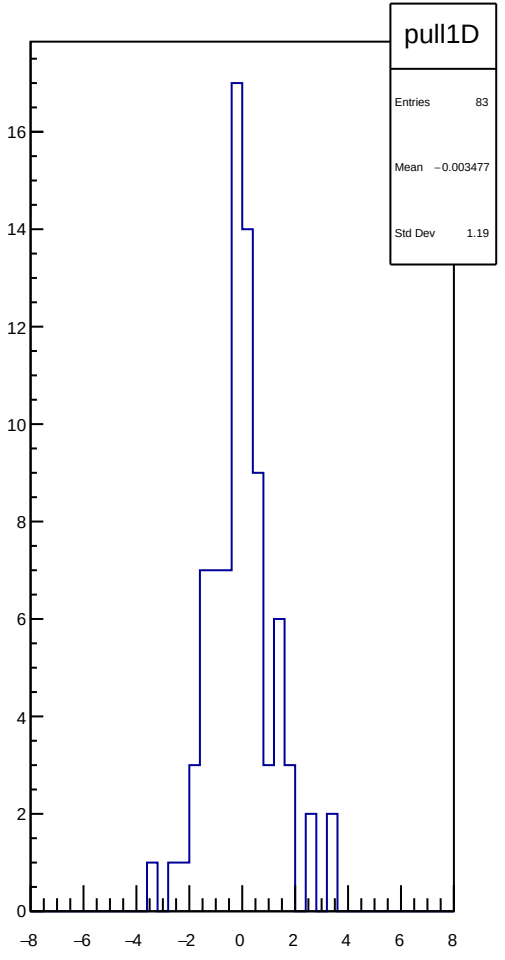

diff_bpm0l05Y_rms vs run
χ² / ndf 4138 / 82
p0 1951 ± 1.539
2400
2300
2200
2100
2000
1900
1800

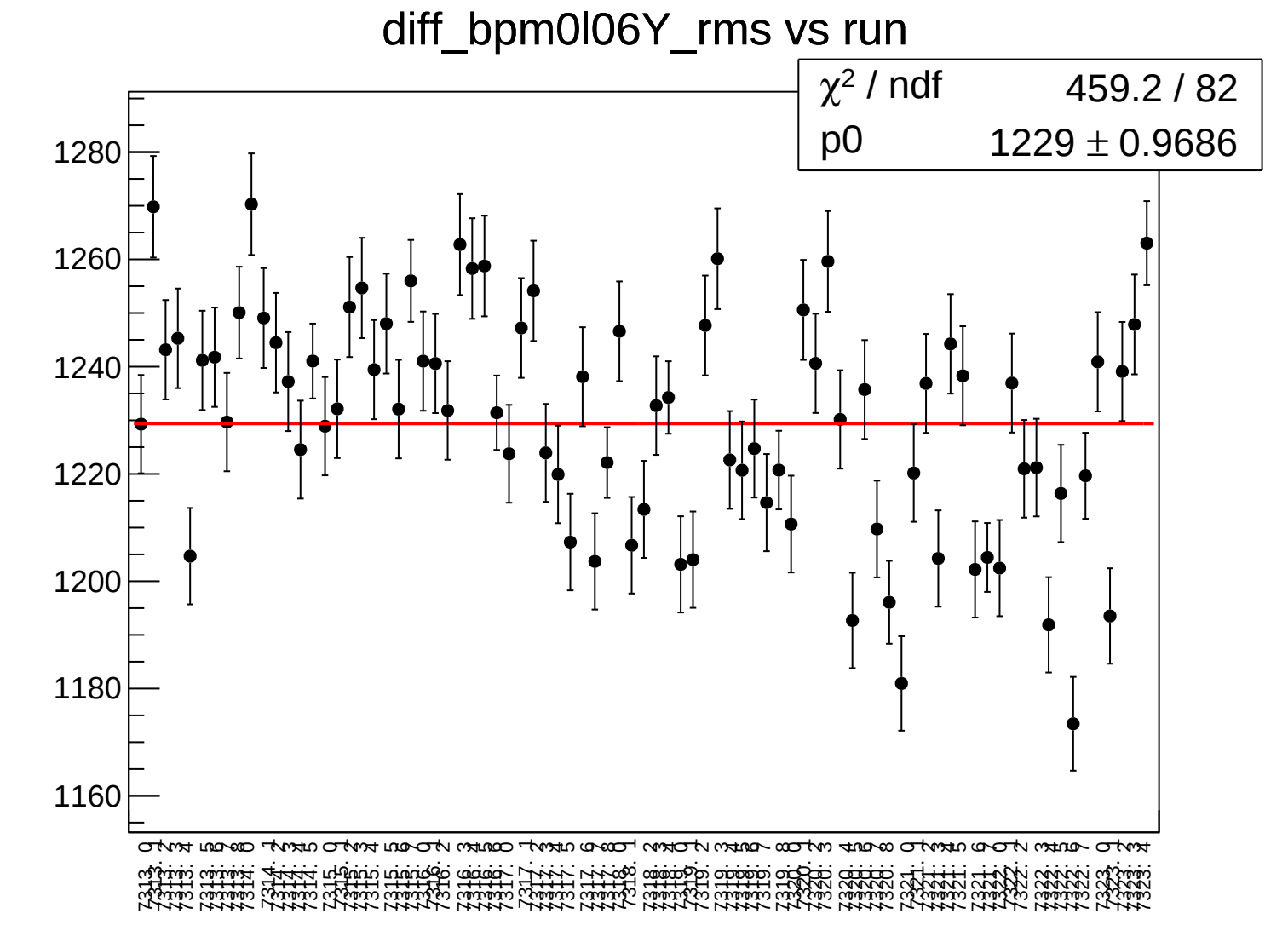

diff_bpm0l06X_mean vs run
χ² / ndf 89.28 / 82
p0 −4.316 ± 7.769
pull
Entries 83
Mean −321.7
Std Dev 0

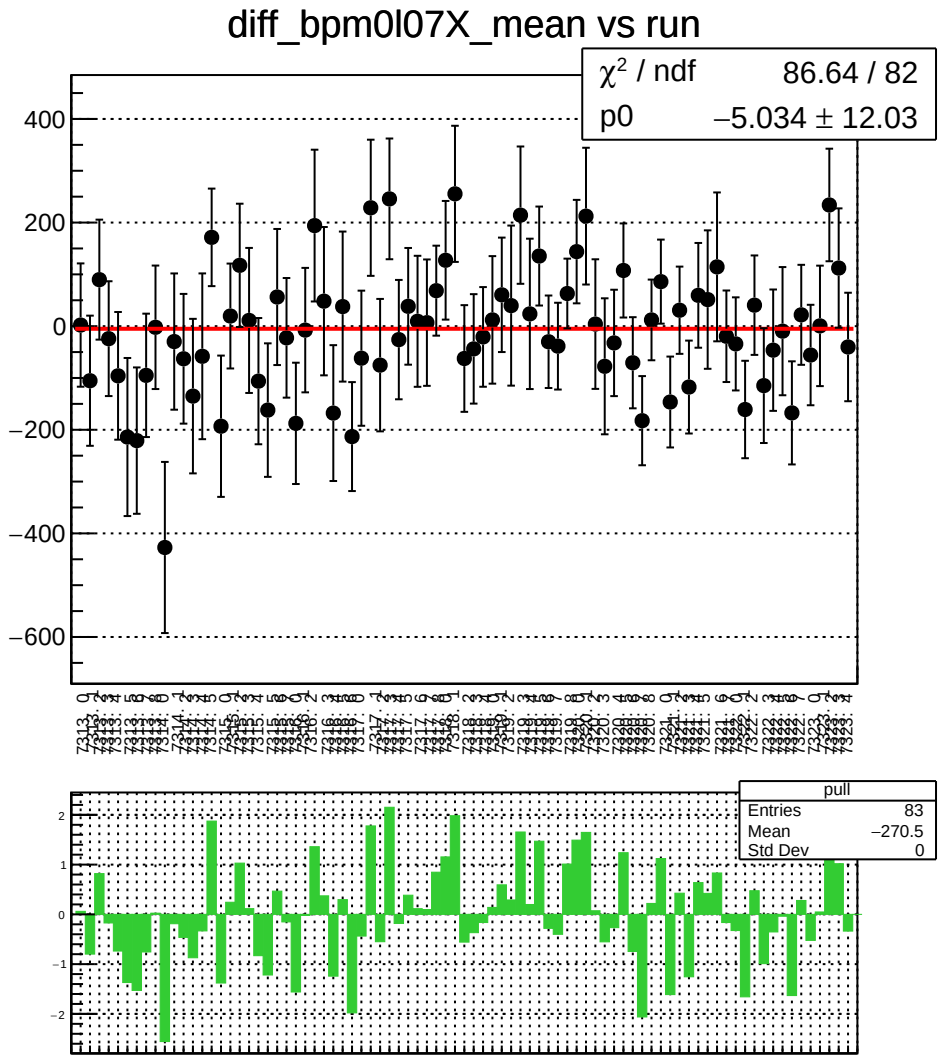

pull1D
Entries 83
Mean −0.009141
Std Dev 1.037

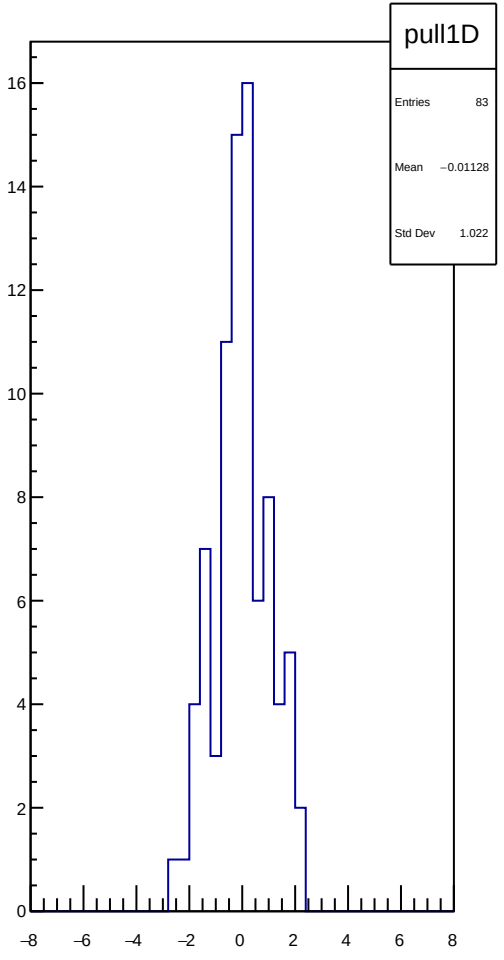

diff_bpm0l06X_rms vs run
χ² / ndf 4.764e+04 / 82
p0 6869 ± 5.493
10000
9000
8000
7000
6000
5000

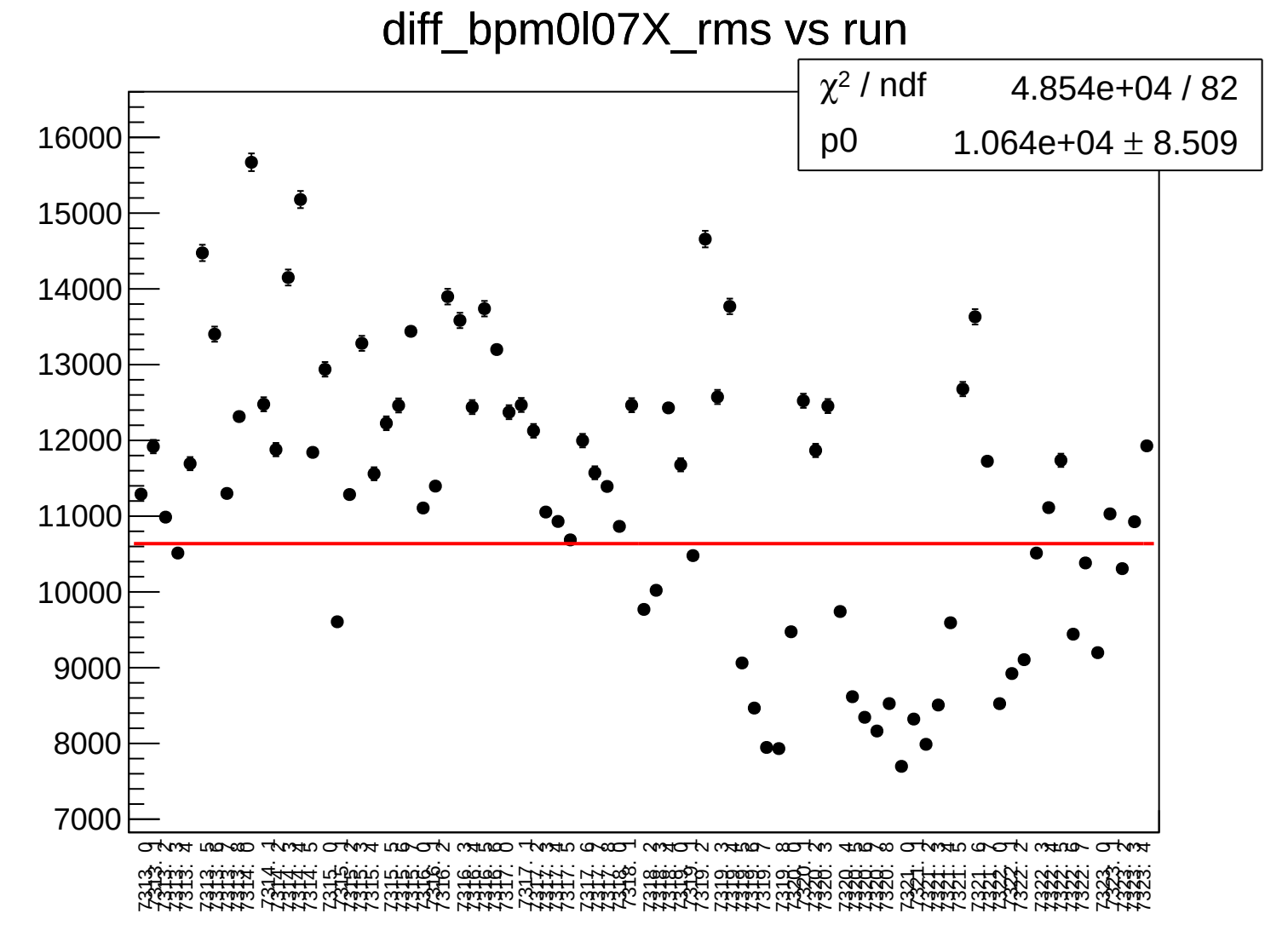

diff_bpm0l06Y_mean vs run
χ² / ndf 117.5 / 82
p0 8.07 ± 1.37
pull
Entries 83
Mean 172.1
Std Dev 0

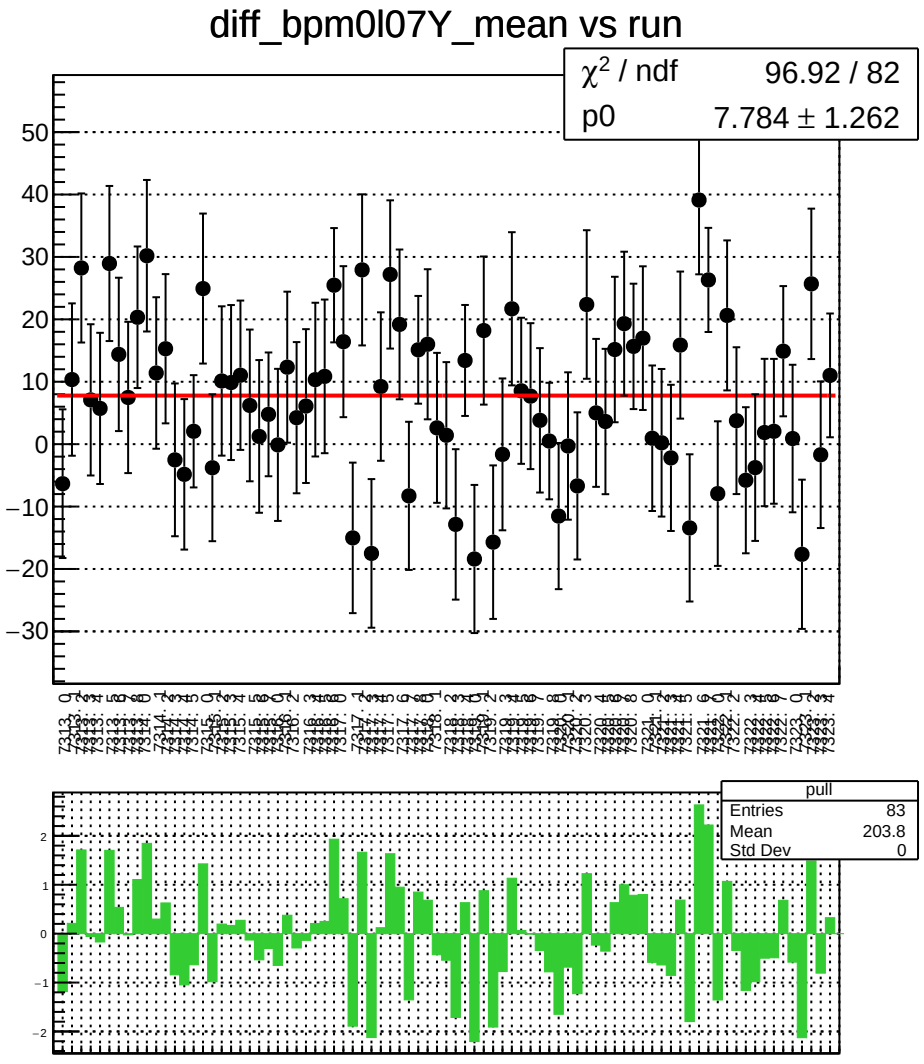

pull1D
Entries 83
Mean −0.003477
Std Dev 1.19

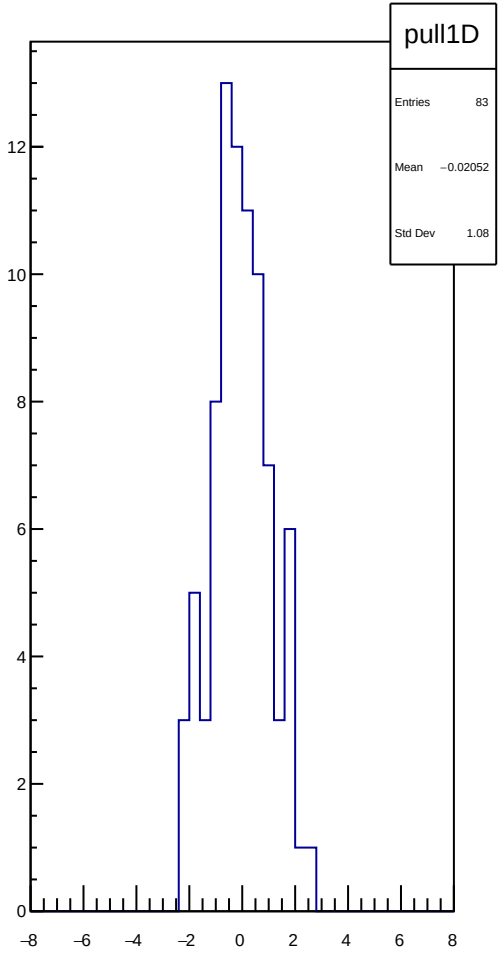

diff_bpm0l06Y_rms vs run
χ² / ndf 459.2 / 82
p0 1229 ± 0.9686
1280
1260
1240
1220
1200
1180
1160

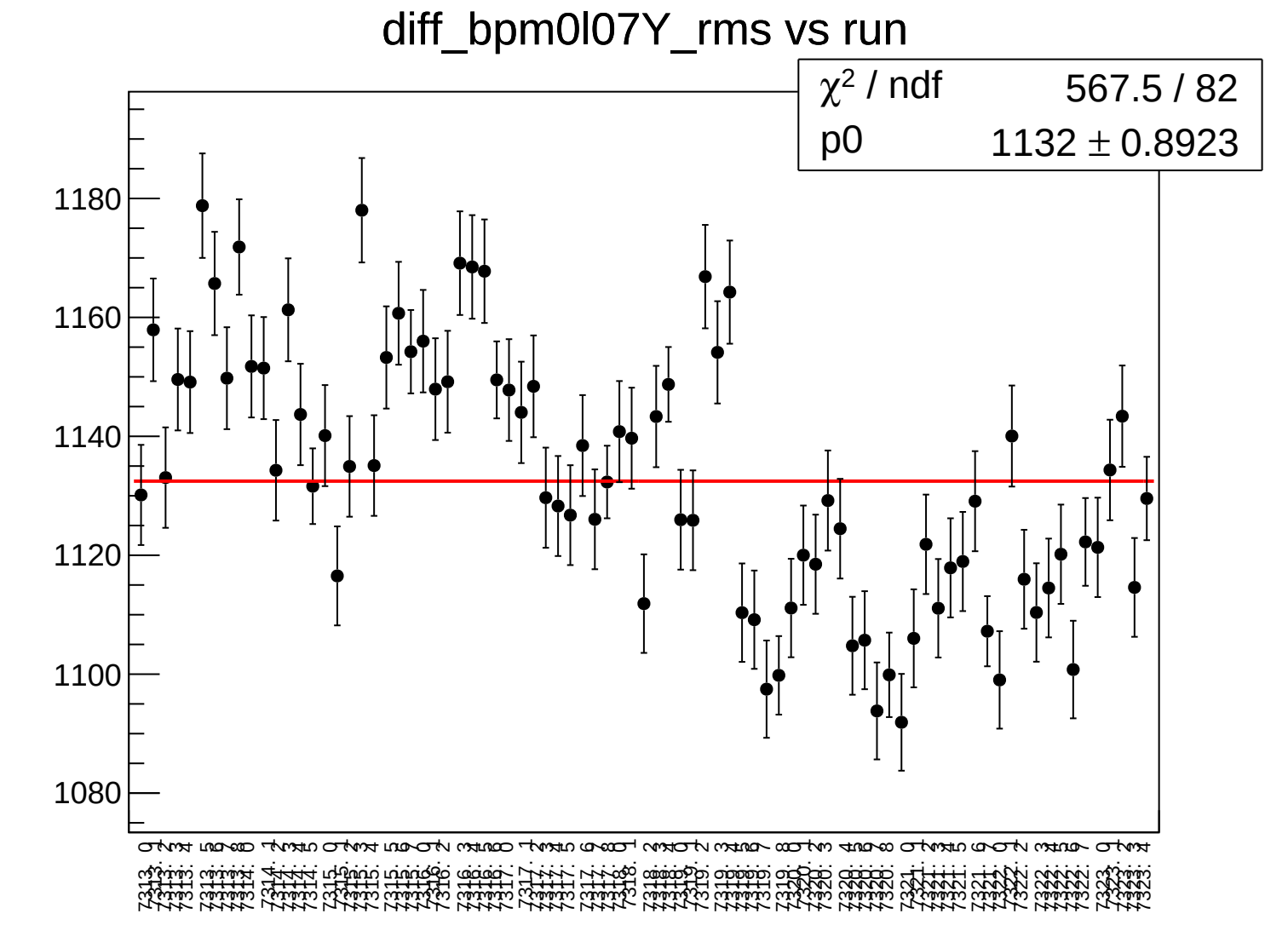

diff_bpm0l07X_mean vs run
χ² / ndf 86.64 / 82
p0 −5.034 ± 12.03
pull
Entries 83
Mean −270.5
Std Dev 0

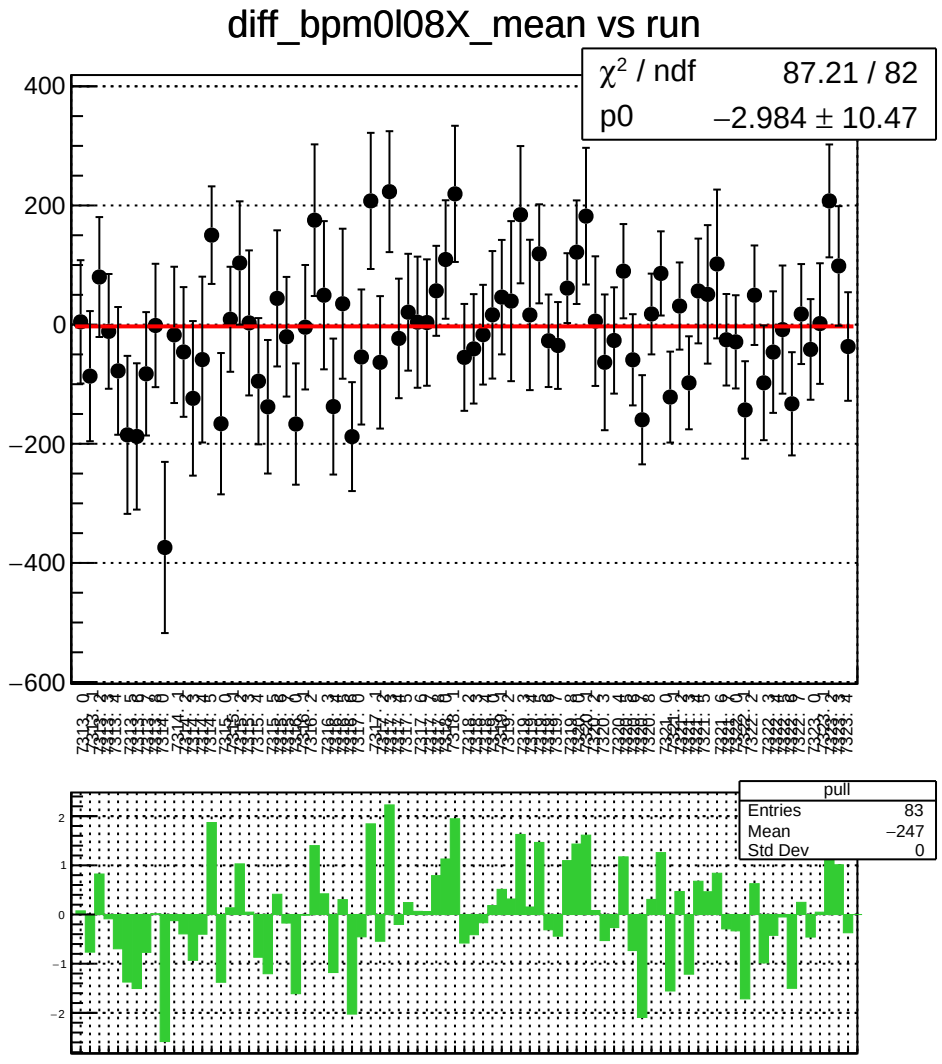

pull1D
Entries 83
Mean −0.01128
Std Dev 1.022

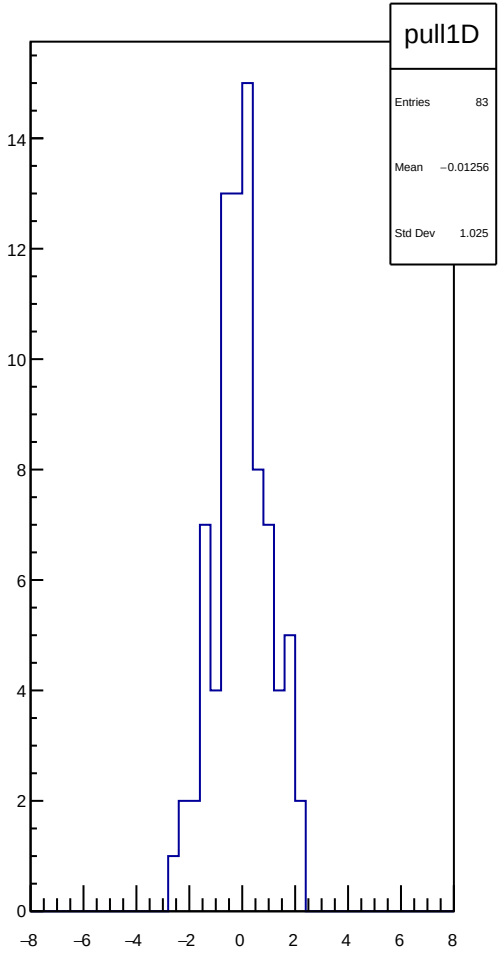

diff_bpm0l07X_rms vs run
χ² / ndf 4.854e+04 / 82
p0 1.064e+04 ± 8.509
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000

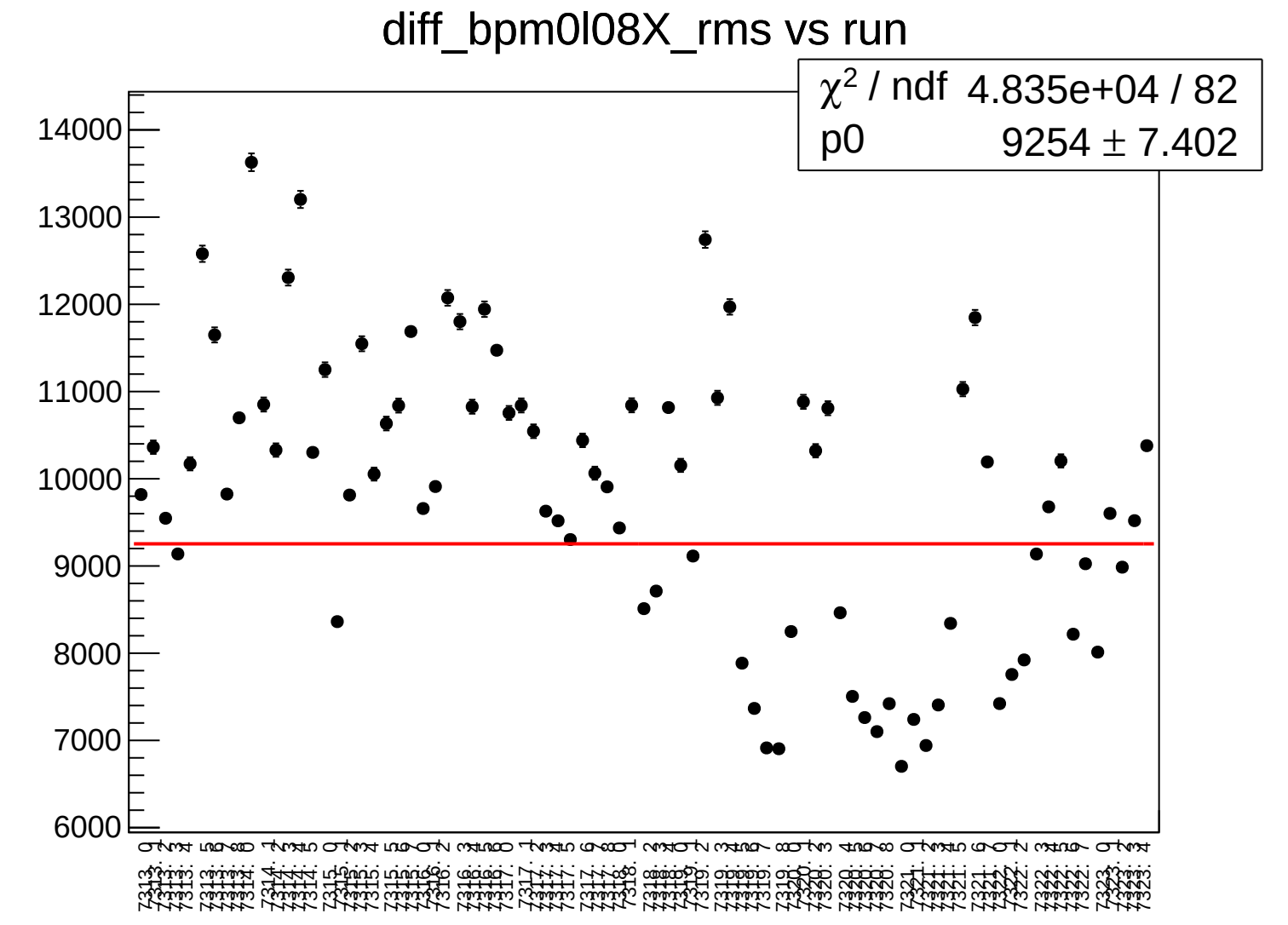

diff_bpm0l07Y_mean vs run
χ² / ndf 96.92 / 82
p0 7.784 ± 1.262
pull
Entries 83
Mean 203.8
Std Dev 0

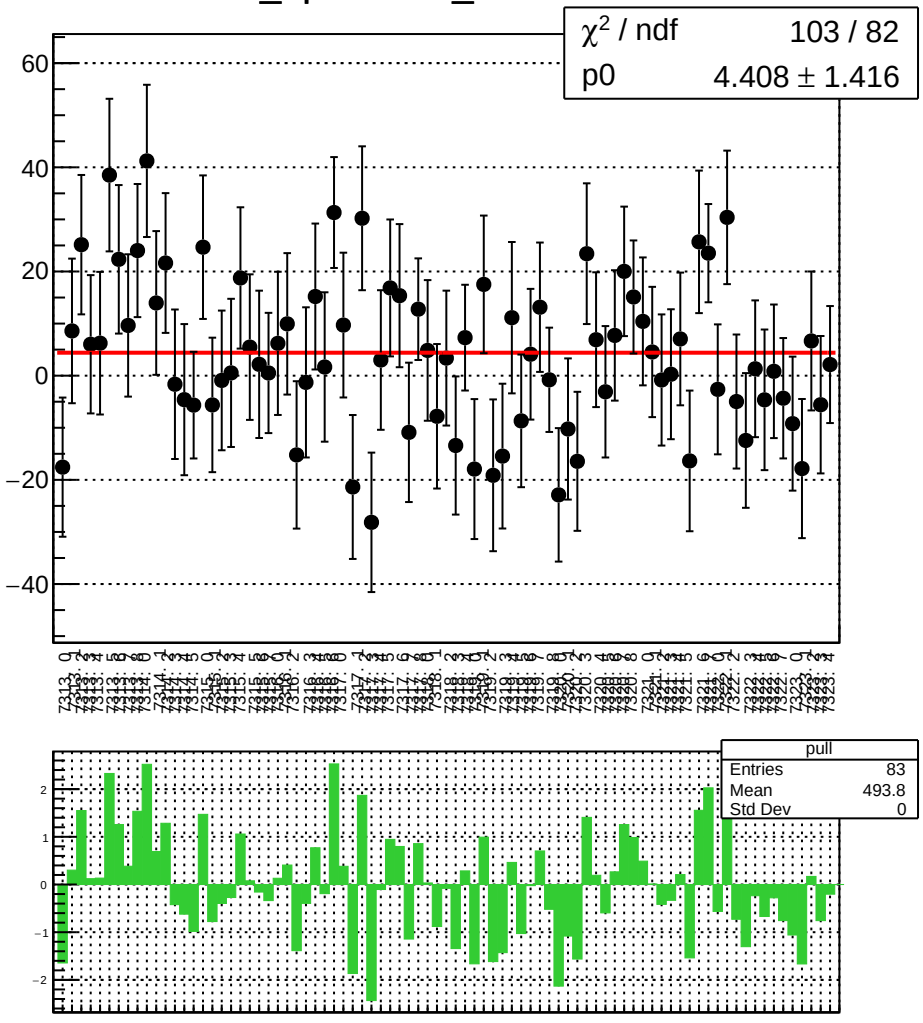

pull1D
Entries 83
Mean −0.02052
Std Dev 1.08

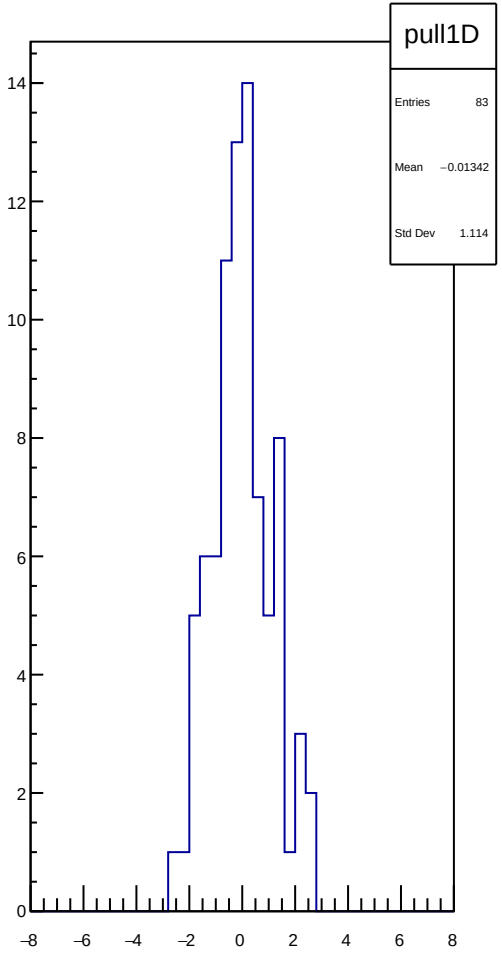

diff_bpm0l07Y_rms vs run
χ² / ndf 567.5 / 82
p0 1132 ± 0.8923
1180
1160
1140
1120
1100
1080

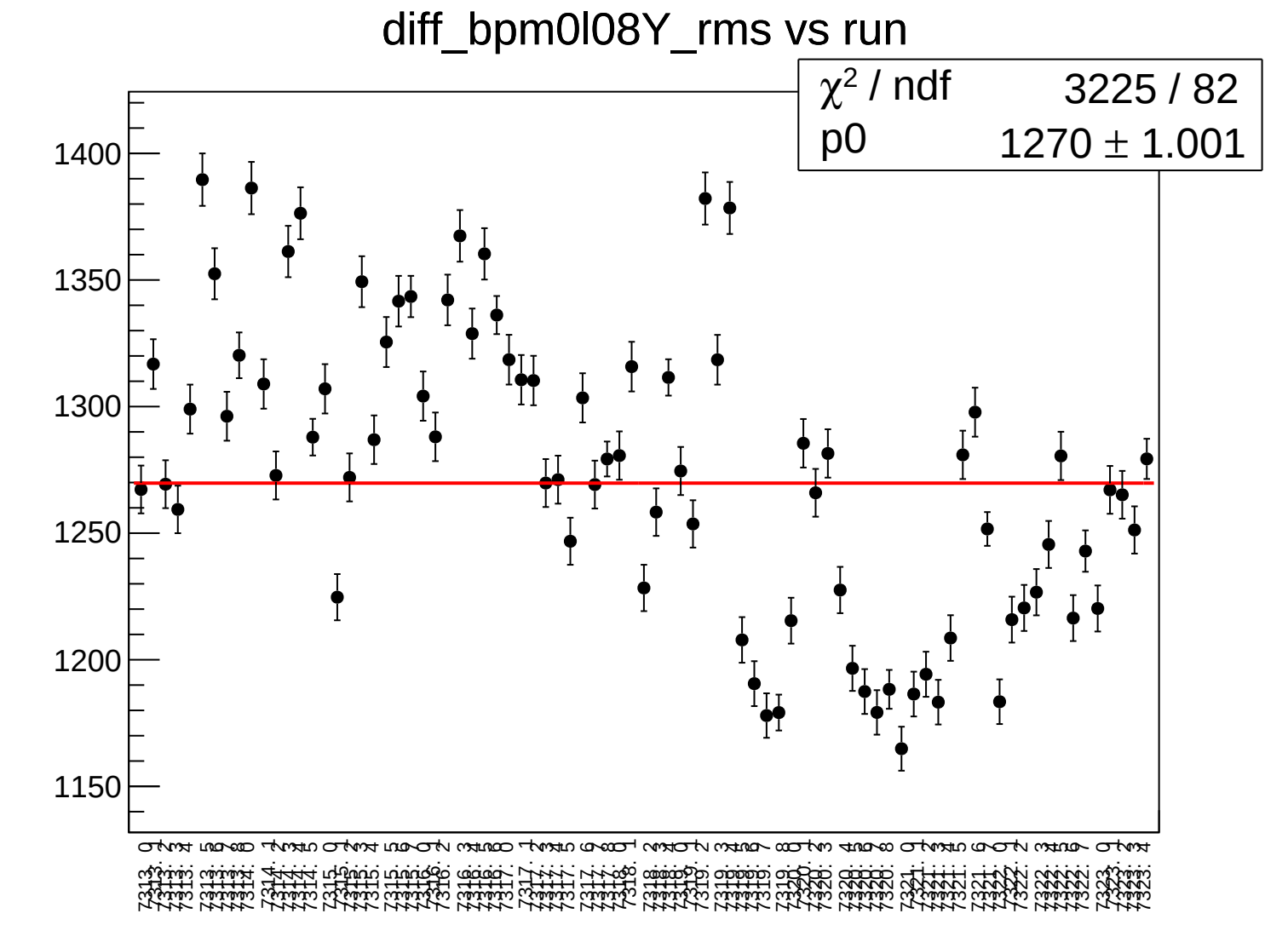

diff_bpm0l08X_mean vs run
χ^2 / ndf 87.21 / 82
p0 −2.984 ± 10.47
pull
Entries 83
Mean −247
Std Dev 0

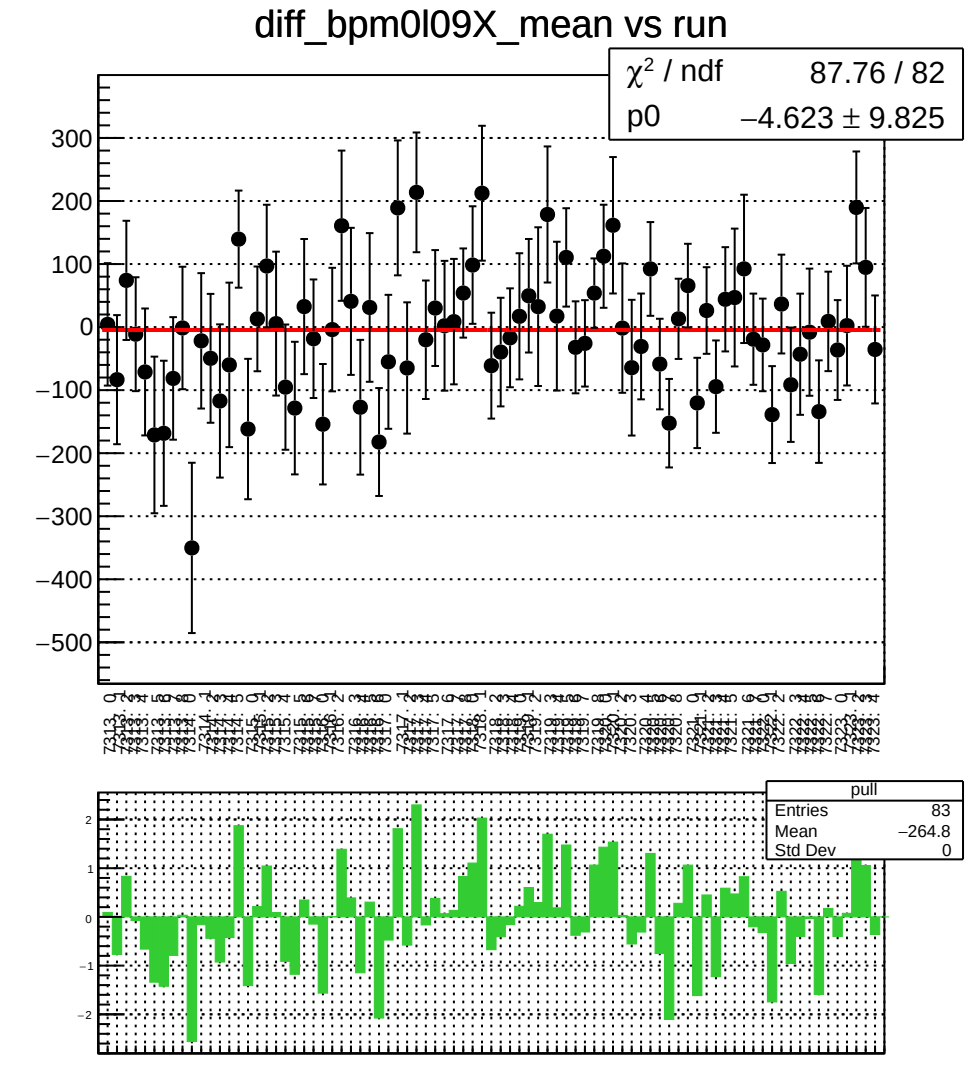

pull1D
Entries 83
Mean −0.01256
Std Dev 1.025

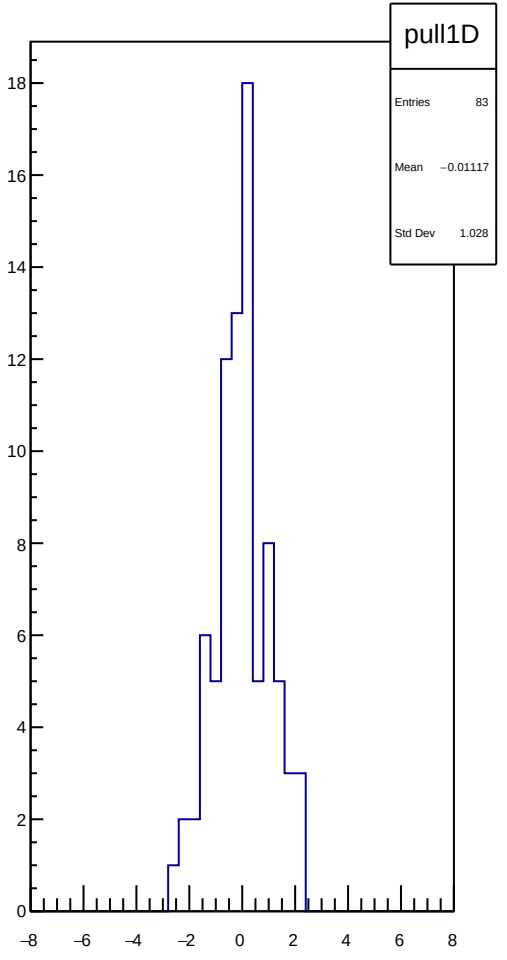

diff_bpm0l08X_rms vs run
χ² / ndf 4.835e+04 / 82
p0 9254 ± 7.402
14000
13000
12000
11000
10000
9000
8000
7000
6000

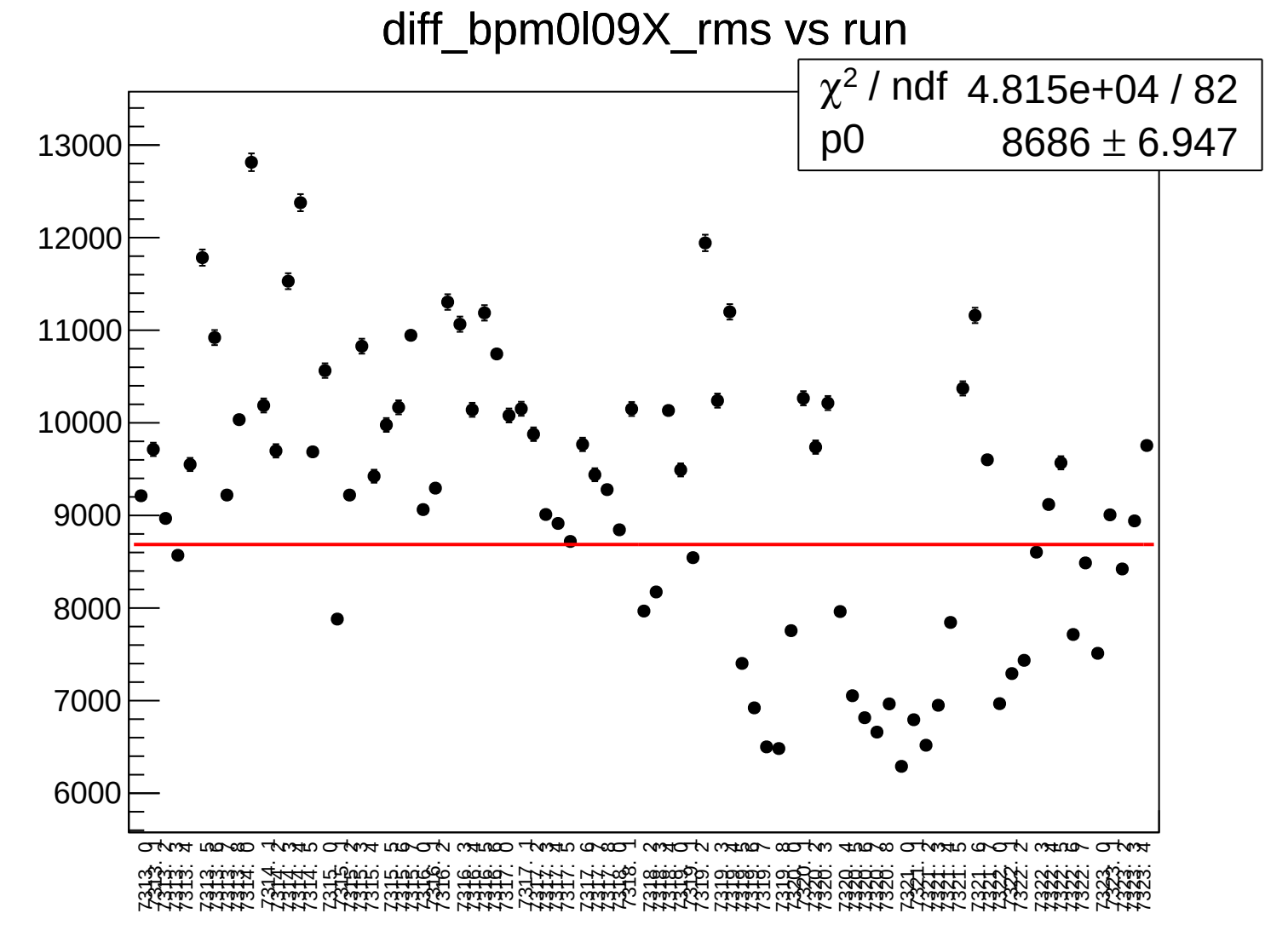

diff_bpm0l08Y_mean vs run
χ² / ndf 103 / 82
p0 4.408 ± 1.416
pull
Entries 83
Mean 493.8
Std Dev 0

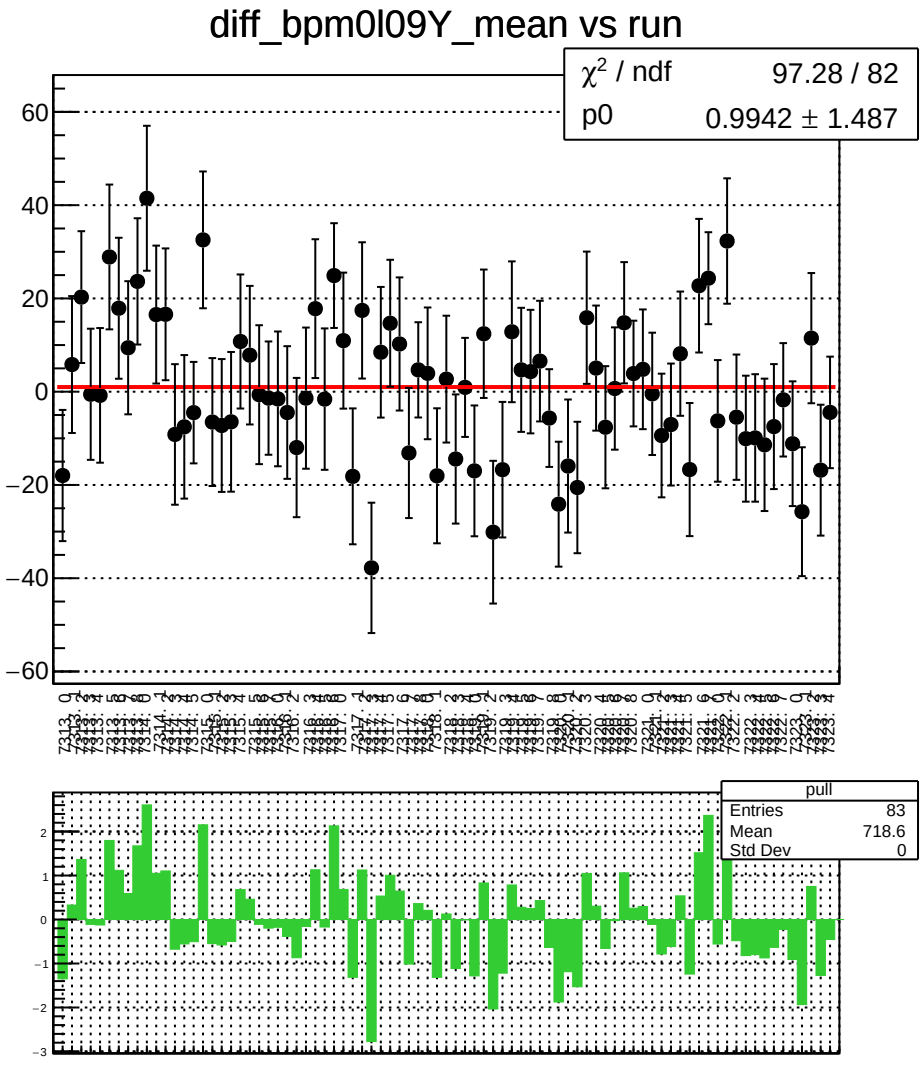

pull1D
Entries 83
Mean −0.01342
Std Dev 1.114

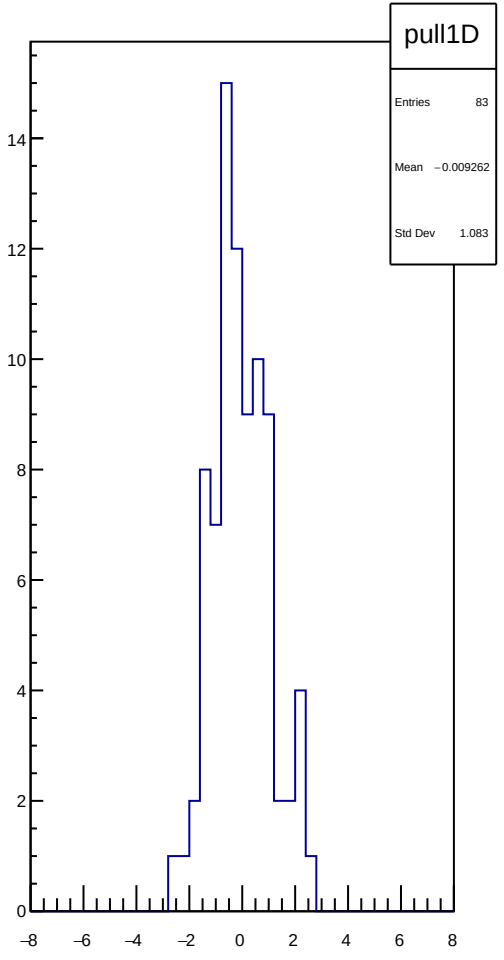

diff_bpm0l08Y_rms vs run
χ² / ndf 3225 / 82
p0 1270 ± 1.001
1400
1350
1300
1250
1200
1150

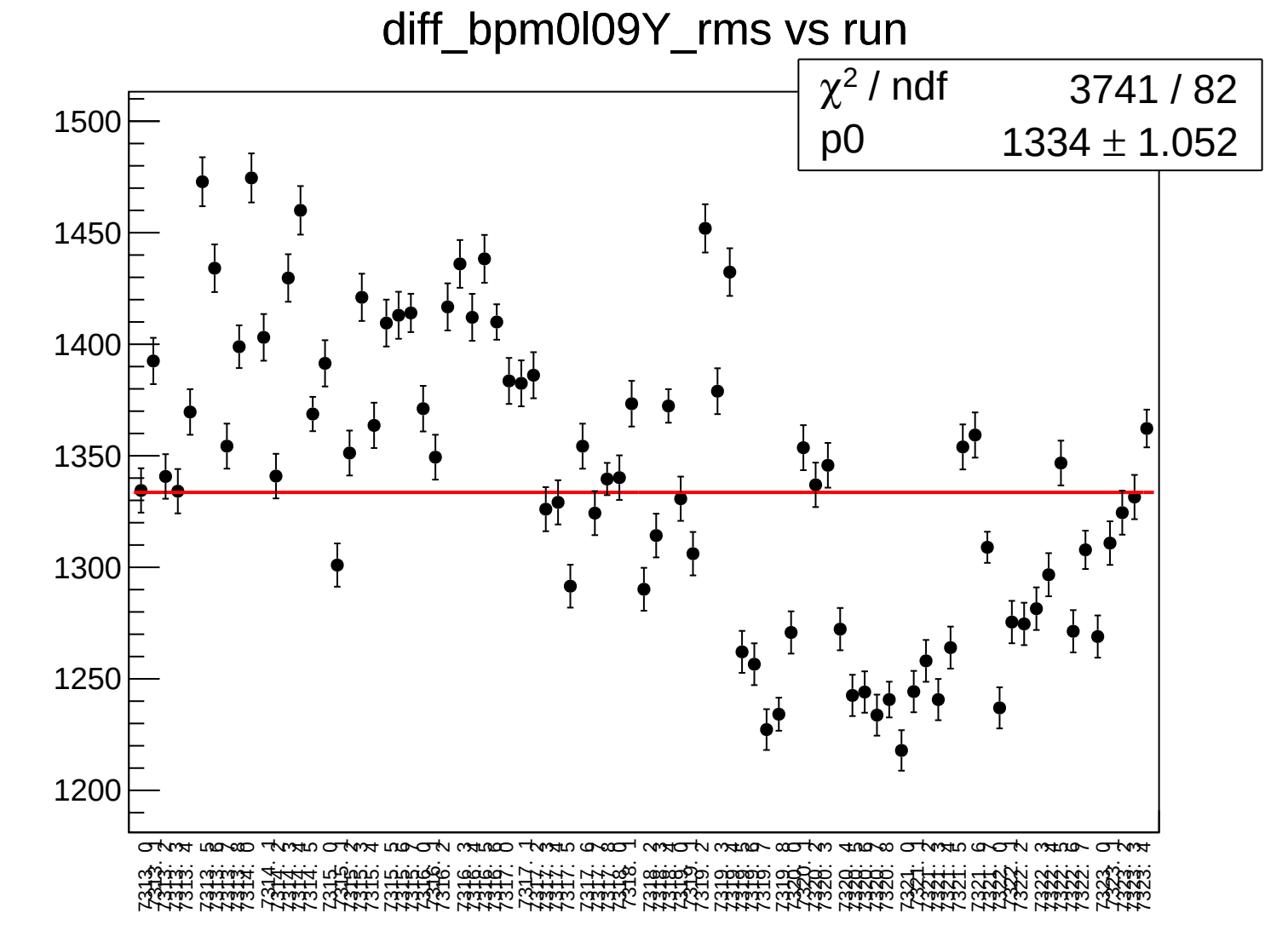

diff_bpm0l09X_mean vs run
χ² / ndf 87.76 / 82
p0 −4.623 ± 9.825
pull
Entries 83
Mean −264.8
Std Dev 0

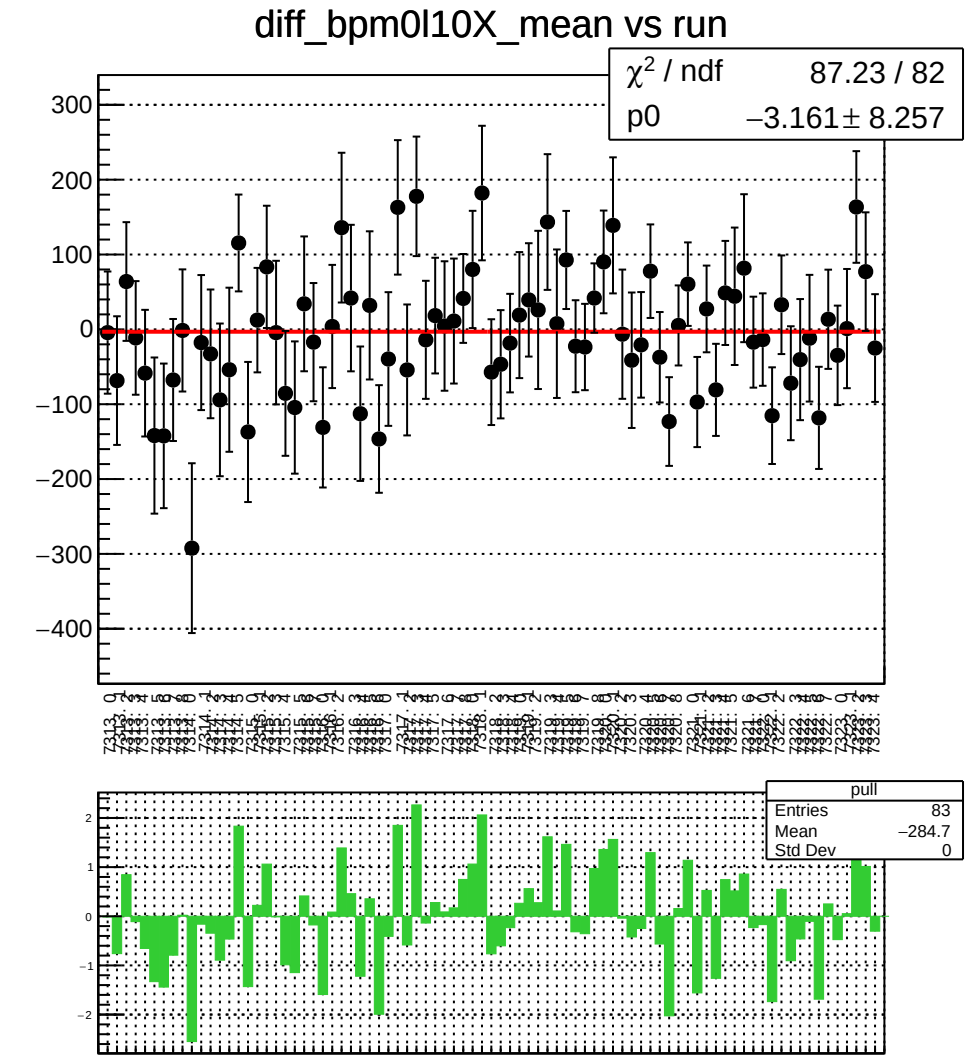

pull1D
Entries 83
Mean −0.01117
Std Dev 1.028

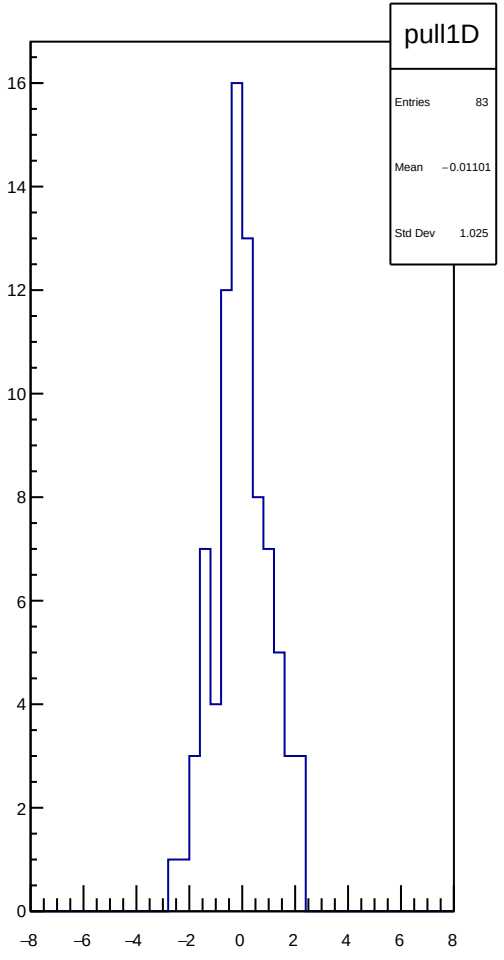

diff_bpm0l09X_rms vs run
χ² / ndf 4.815e+04 / 82
p0 8686 ± 6.947
13000
12000
11000
10000
9000
8000
7000
6000

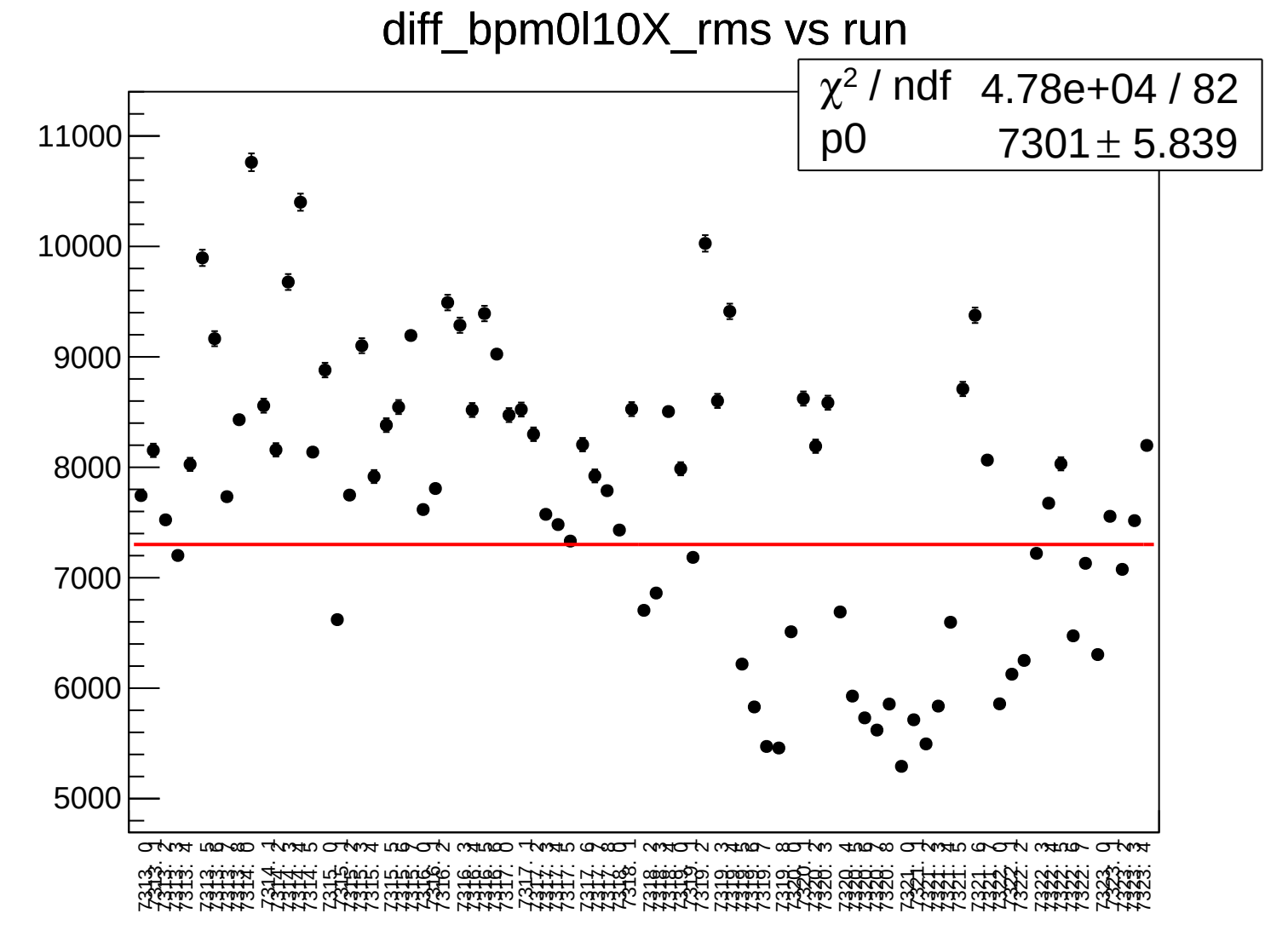

diff_bpm0l09Y_mean vs run
χ^2 / ndf 97.28 / 82
p0 0.9942 ± 1.487
pull
Entries 83
Mean 718.6
Std Dev 0

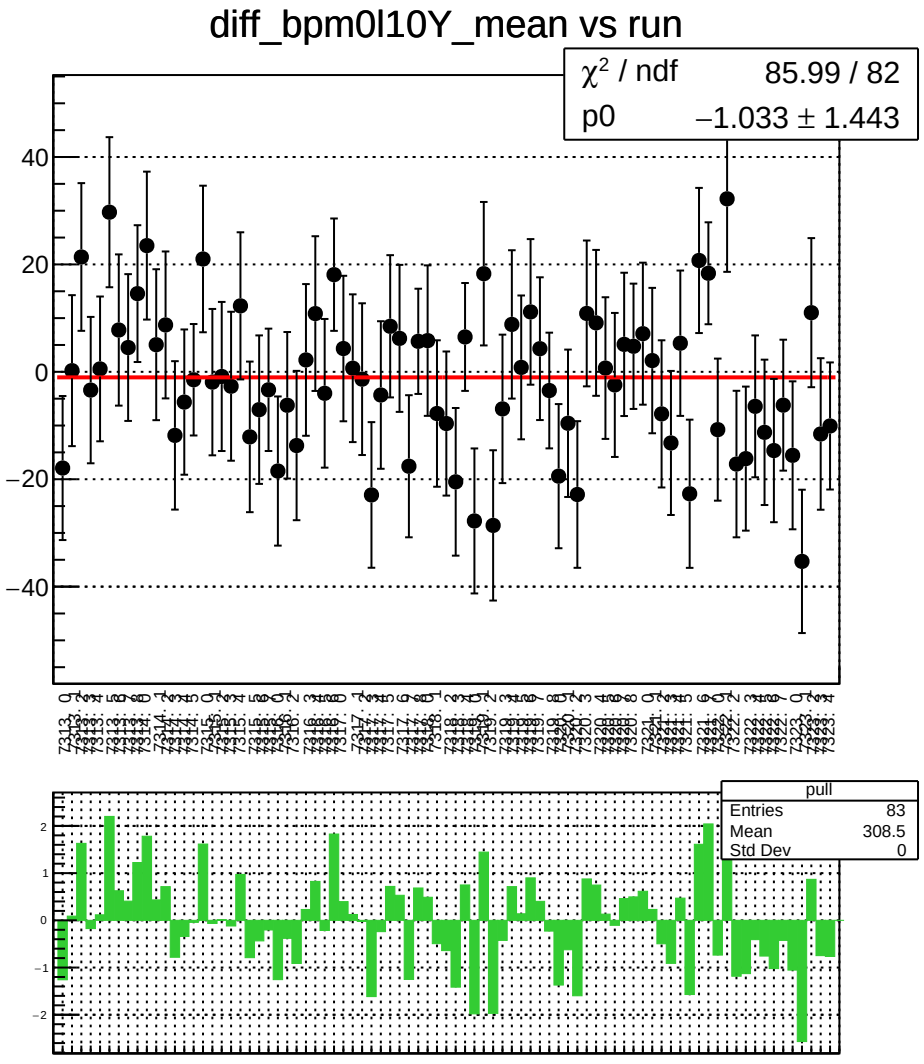

pull1D
Entries 83
Mean −0.009262
Std Dev 1.083

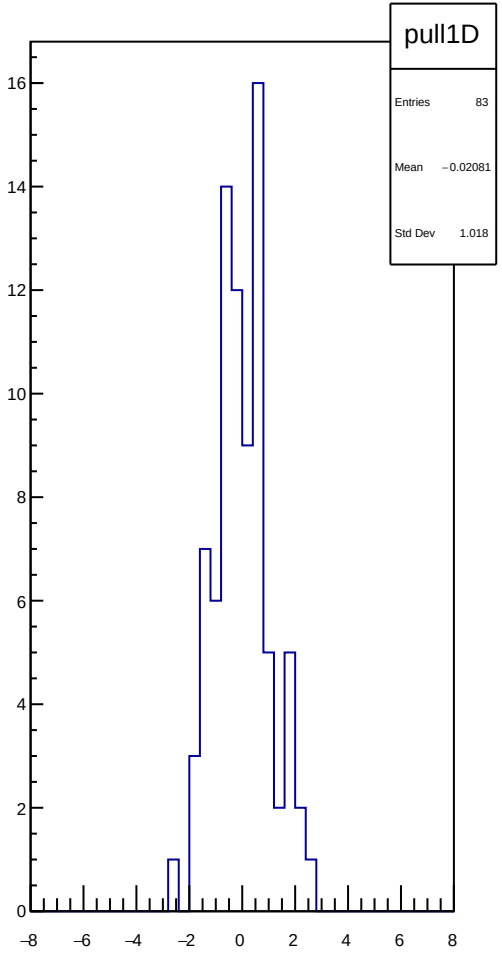

diff_bpm0l09Y_rms vs run
χ² / ndf 3741 / 82
p0 1334 ± 1.052
1500
1450
1400
1350
1300
1250
1200

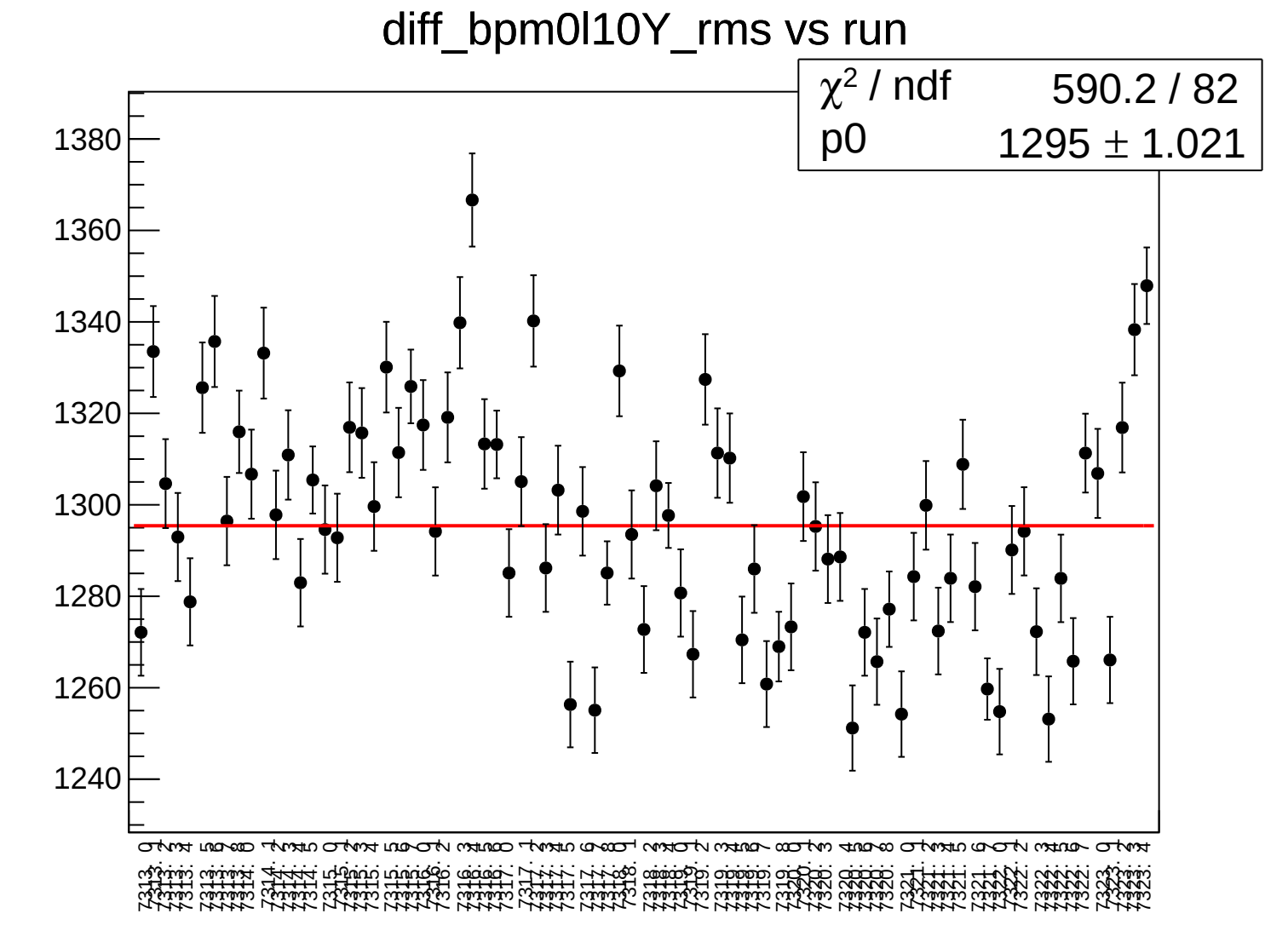

diff_bpm0l10X_mean vs run
χ² / ndf 87.23 / 82
p0 −3.161 ± 8.257
pull
Entries 83
Mean −284.7
Std Dev 0

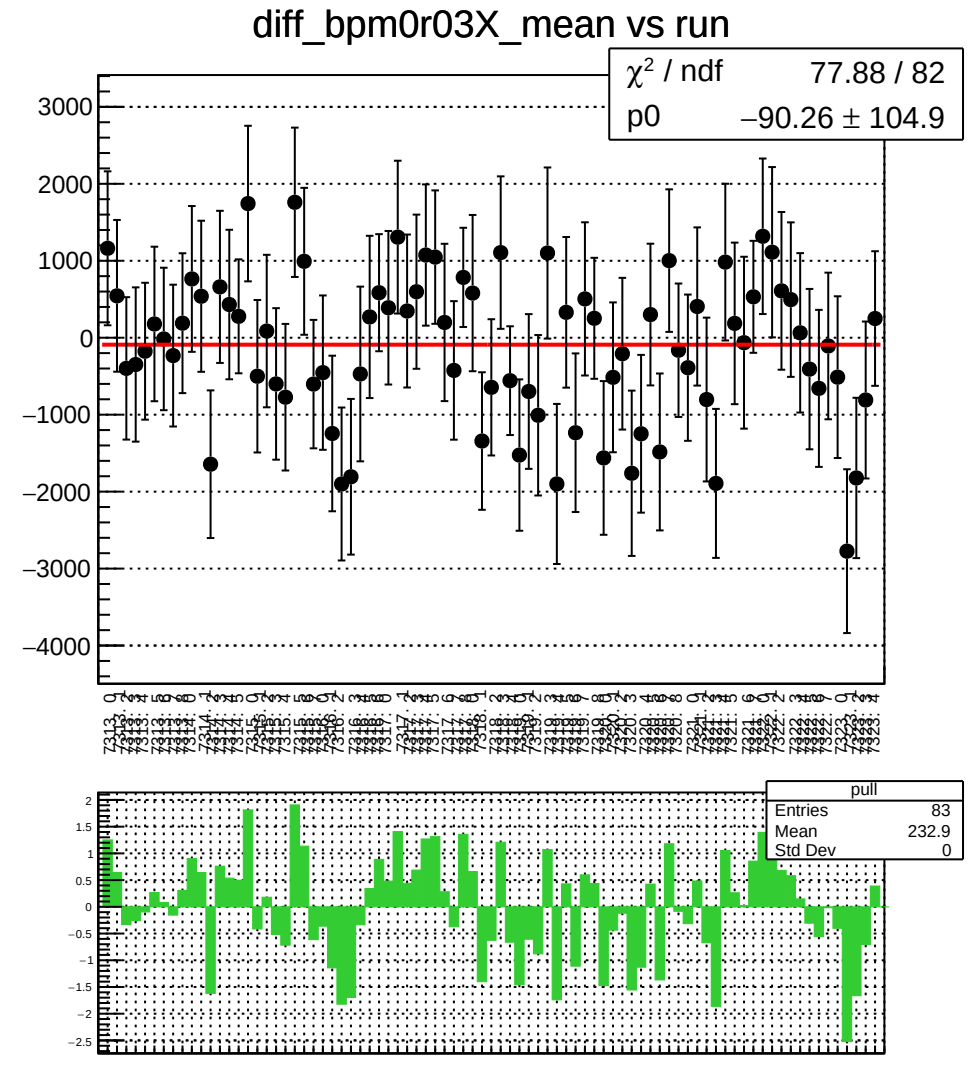

pull1D
Entries 83
Mean −0.01101
Std Dev 1.025

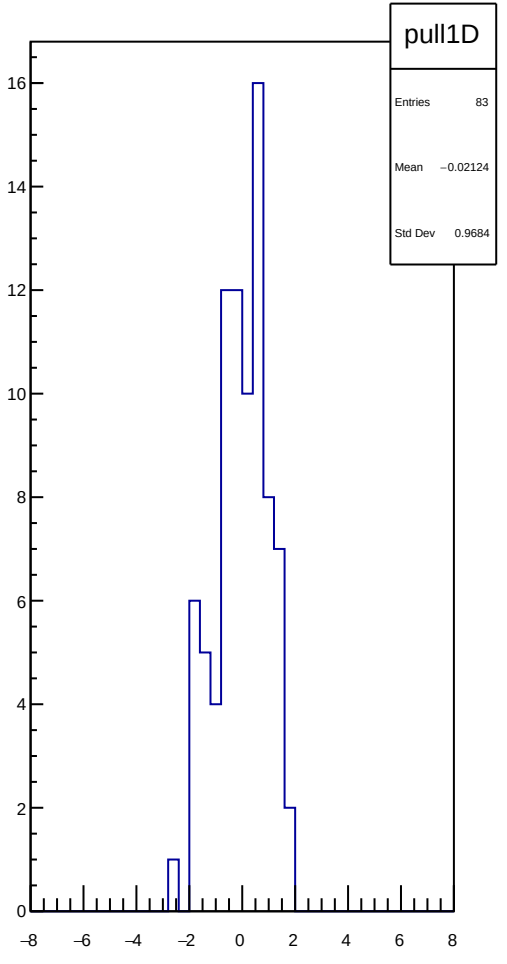

diff_bpm0l10X_rms vs run
χ² / ndf 4.78e+04 / 82
p0 7301 ± 5.839
11000
10000
9000
8000
7000
6000
5000

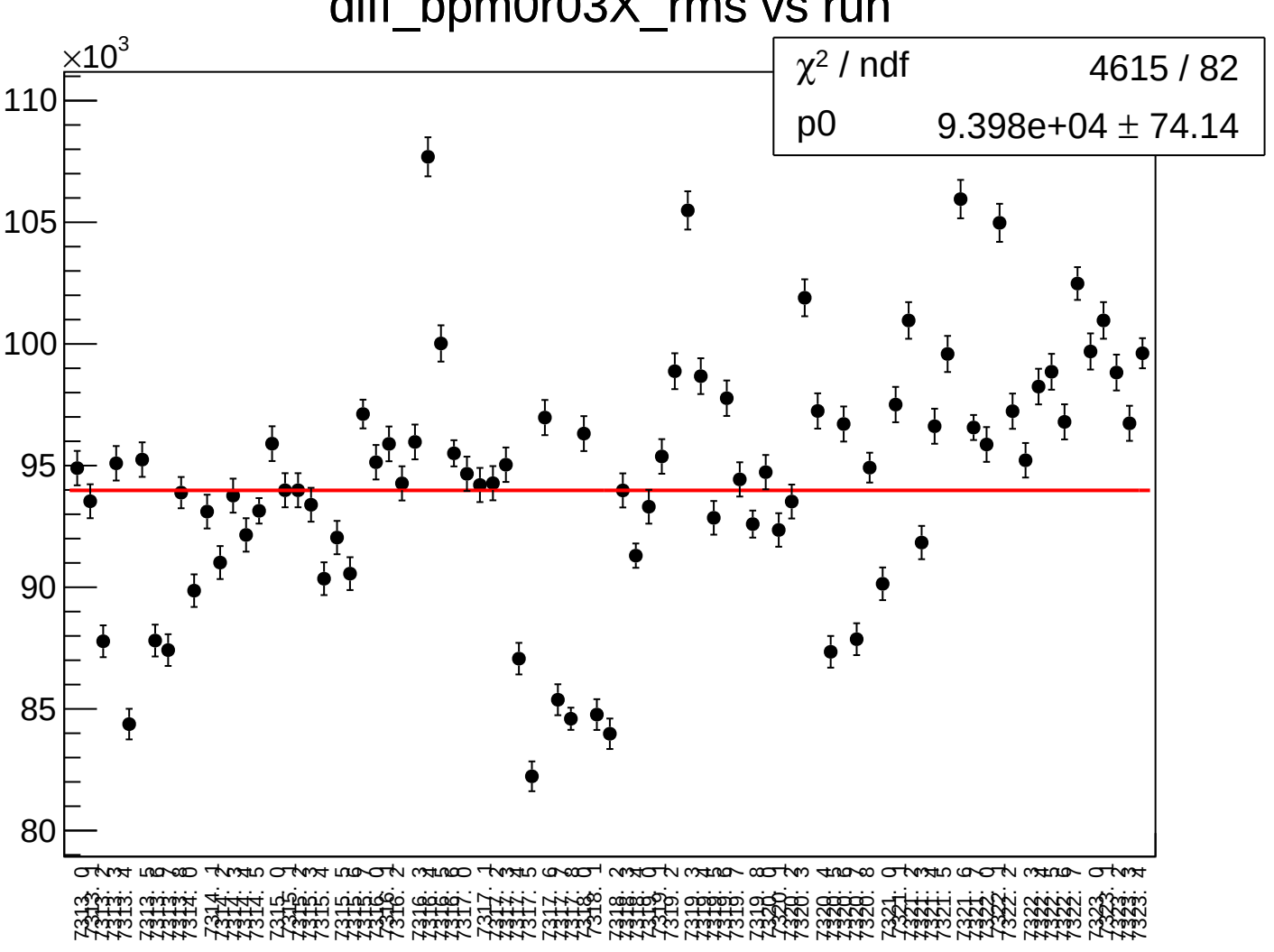

diff_bpm0l10Y_mean vs run
χ² / ndf 85.99 / 82
p0 −1.033 ± 1.443
pull
Entries 83
Mean 308.5
Std Dev 0

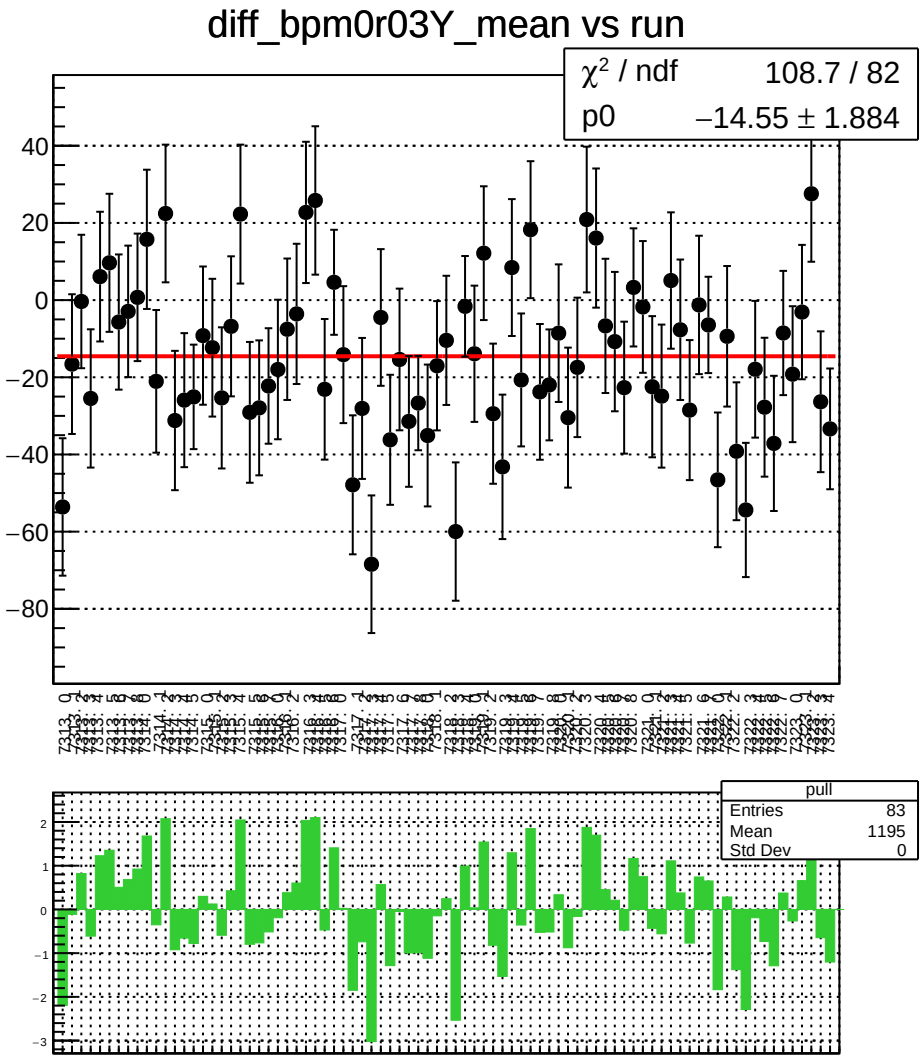

pull1D
Entries 83
Mean −0.02081
Std Dev 1.018

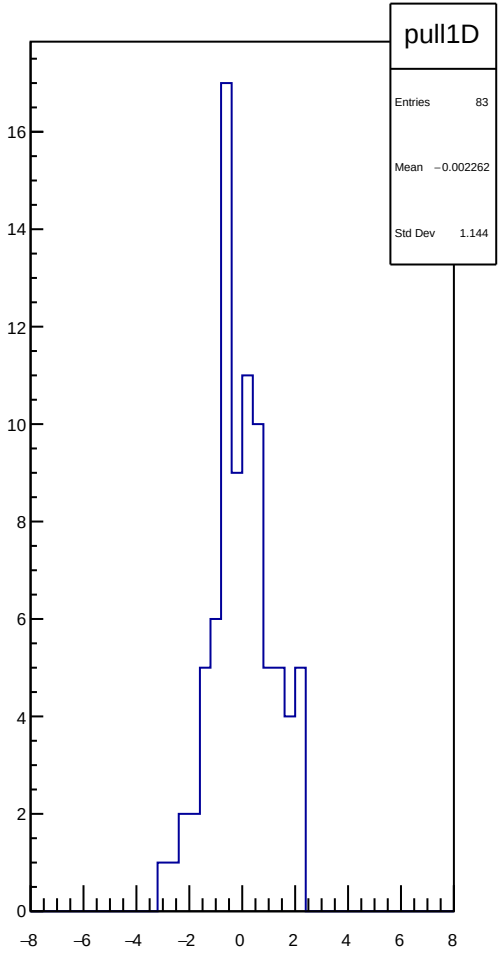

diff_bpm0l10Y_rms vs run
χ² / ndf 590.2 / 82
p0 1295 ± 1.021
1380
1360
1340
1320
1300
1280
1260
1240

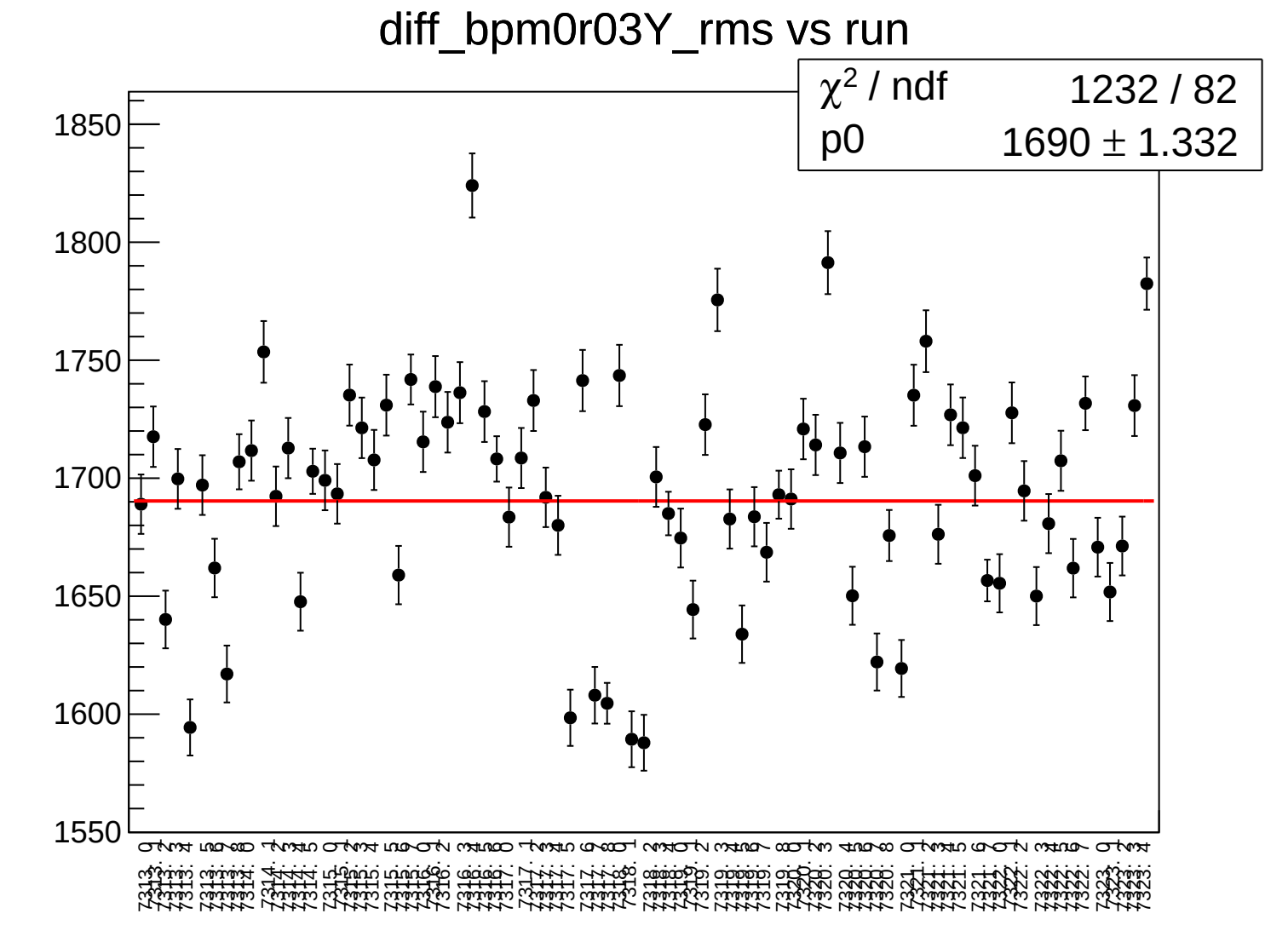

diff_bpm0r03X_mean vs run
χ² / ndf 77.88 / 82
p0 −90.26 ± 104.9
pull
Entries 83
Mean 232.9
Std Dev 0

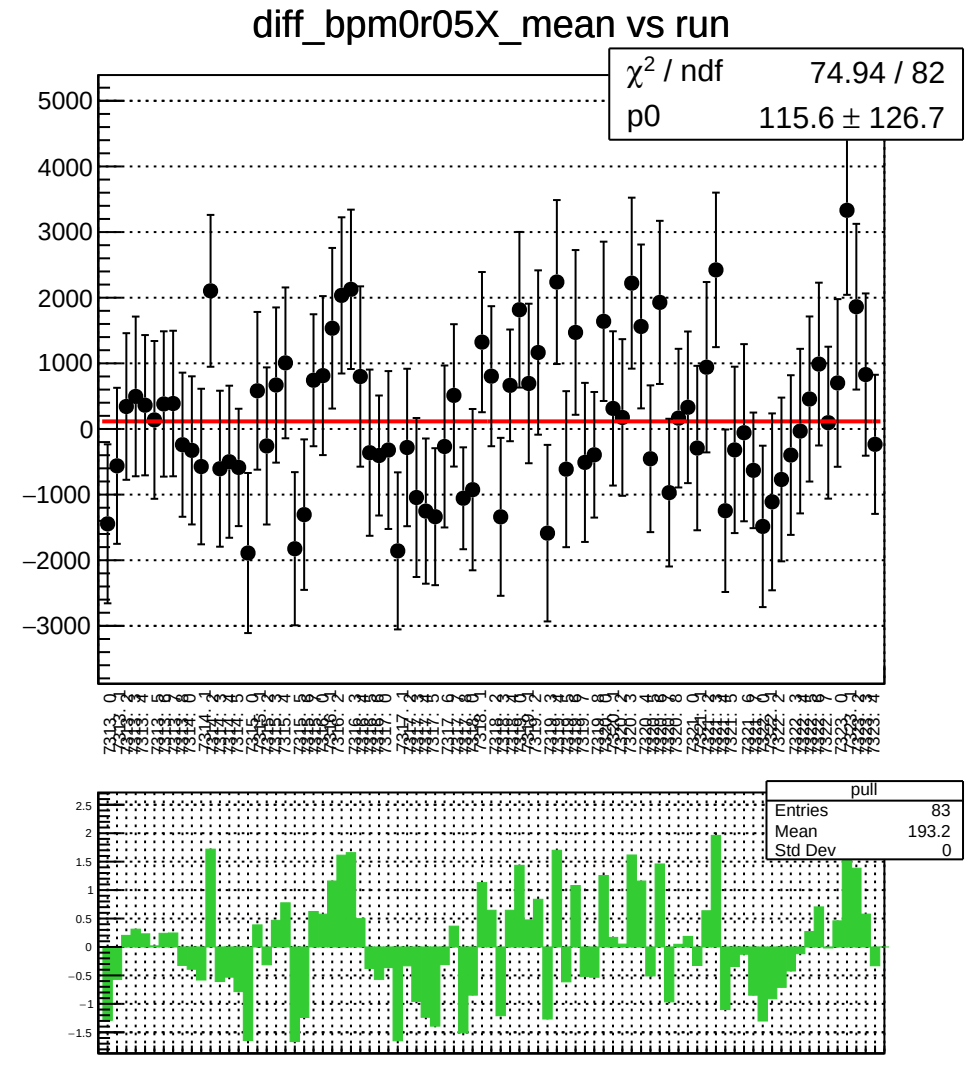

pull1D
Entries 83
Mean −0.02124
Std Dev 0.9684

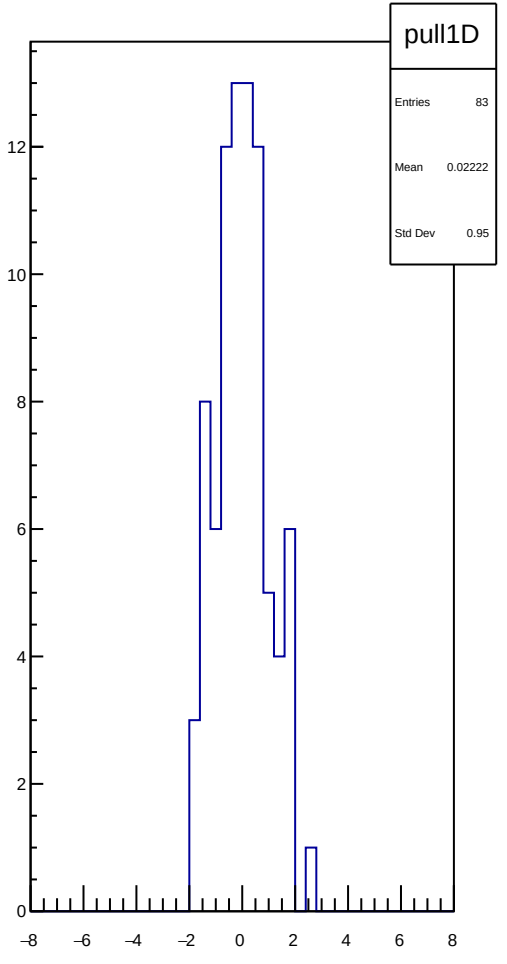

diff_bpm0r03X_rms vs run
×10^3
110
105
100
95
90
85
80
χ² / ndf 4615 / 82
p0 9.398e+04 ± 74.14

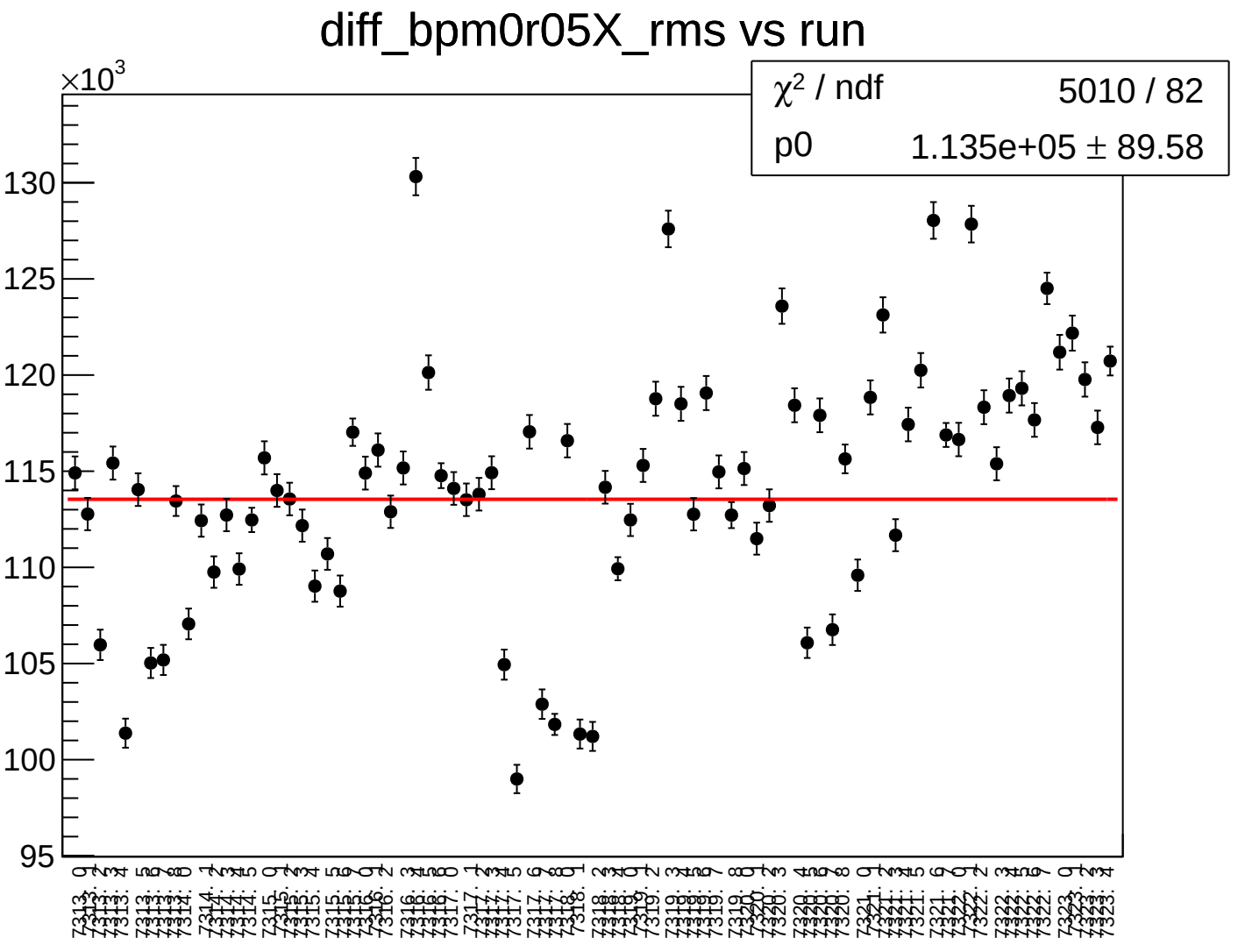

diff_bpm0r03Y_mean vs run
χ² / ndf 108.7 / 82
p0 −14.55 ± 1.884
pull
Entries 83
Mean 1195
Std Dev 0

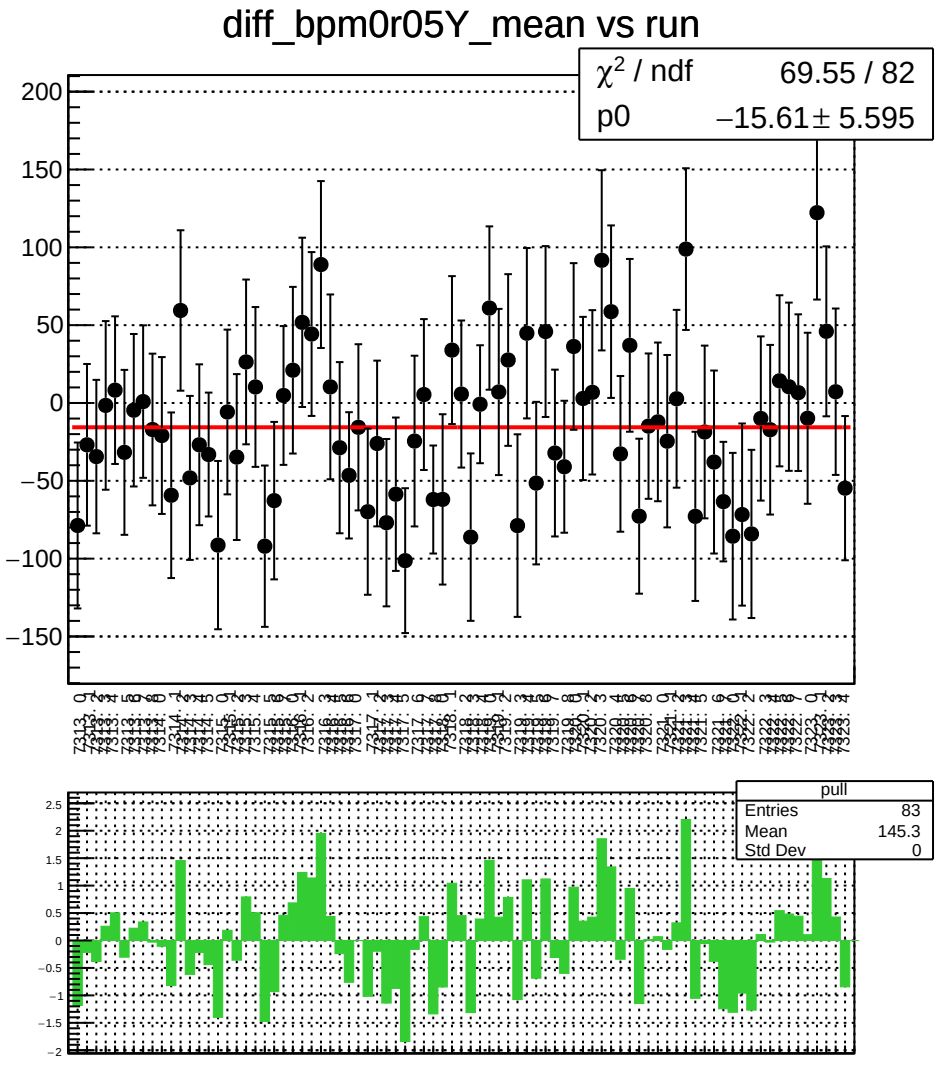

pull1D
Entries 83
Mean −0.002262
Std Dev 1.144

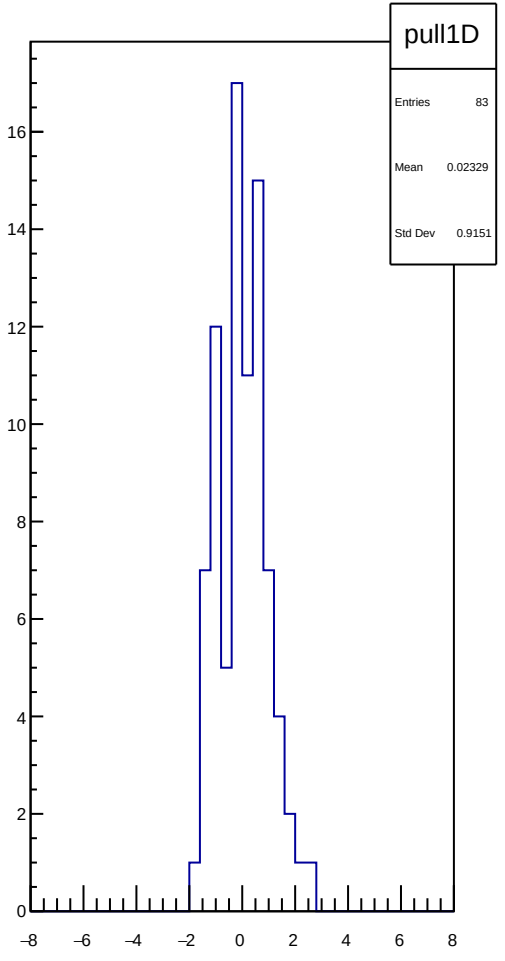

diff_bpm0r03Y_rms vs run
χ² / ndf 1232 / 82
p0 1690 ± 1.332
1850
1800
1750
1700
1650
1600
1550

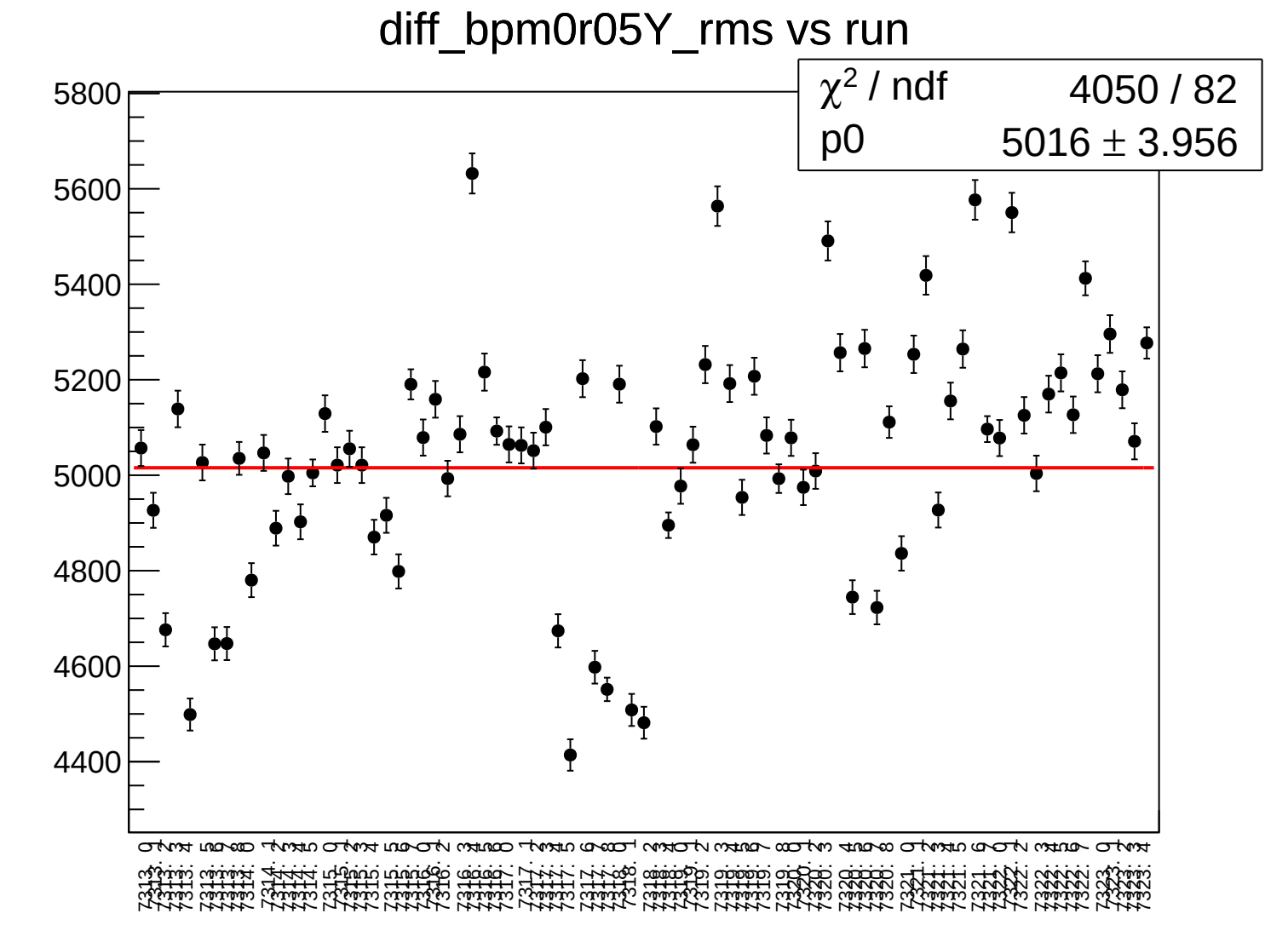

diff_bpm0r05X_mean vs run
χ² / ndf 74.94 / 82
p0 115.6 ± 126.7
pull
Entries 83
Mean 193.2
Std Dev 0

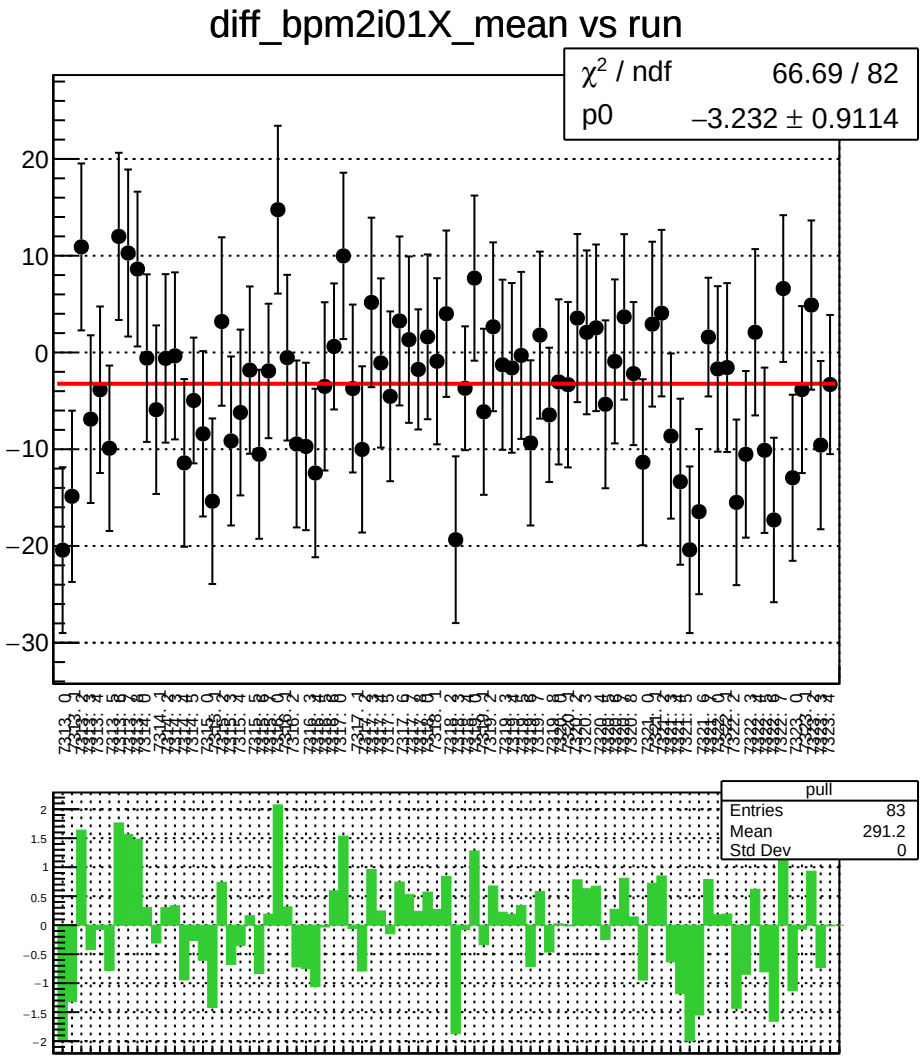

pull1D
Entries 83
Mean 0.02222
Std Dev 0.95

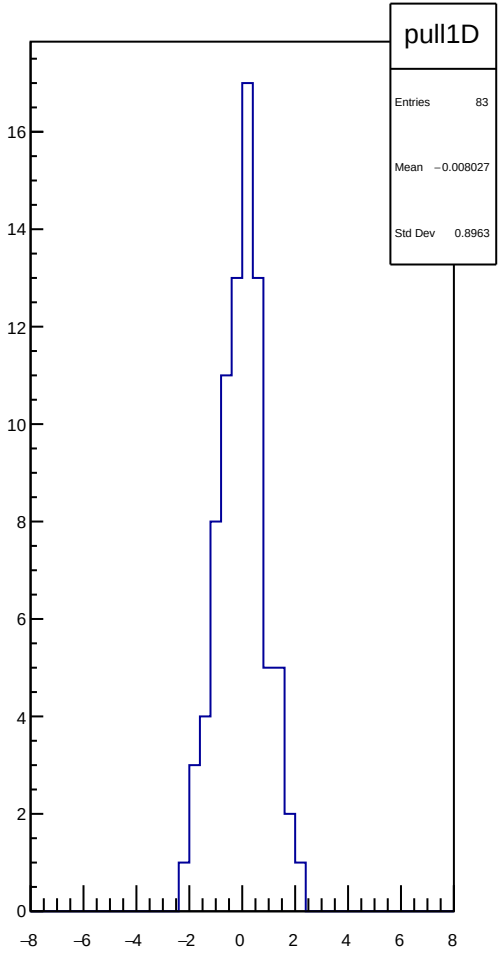

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 5010 / 82
p0 1.135e+05 ± 89.58
130
125
120
115
110
105
100
95

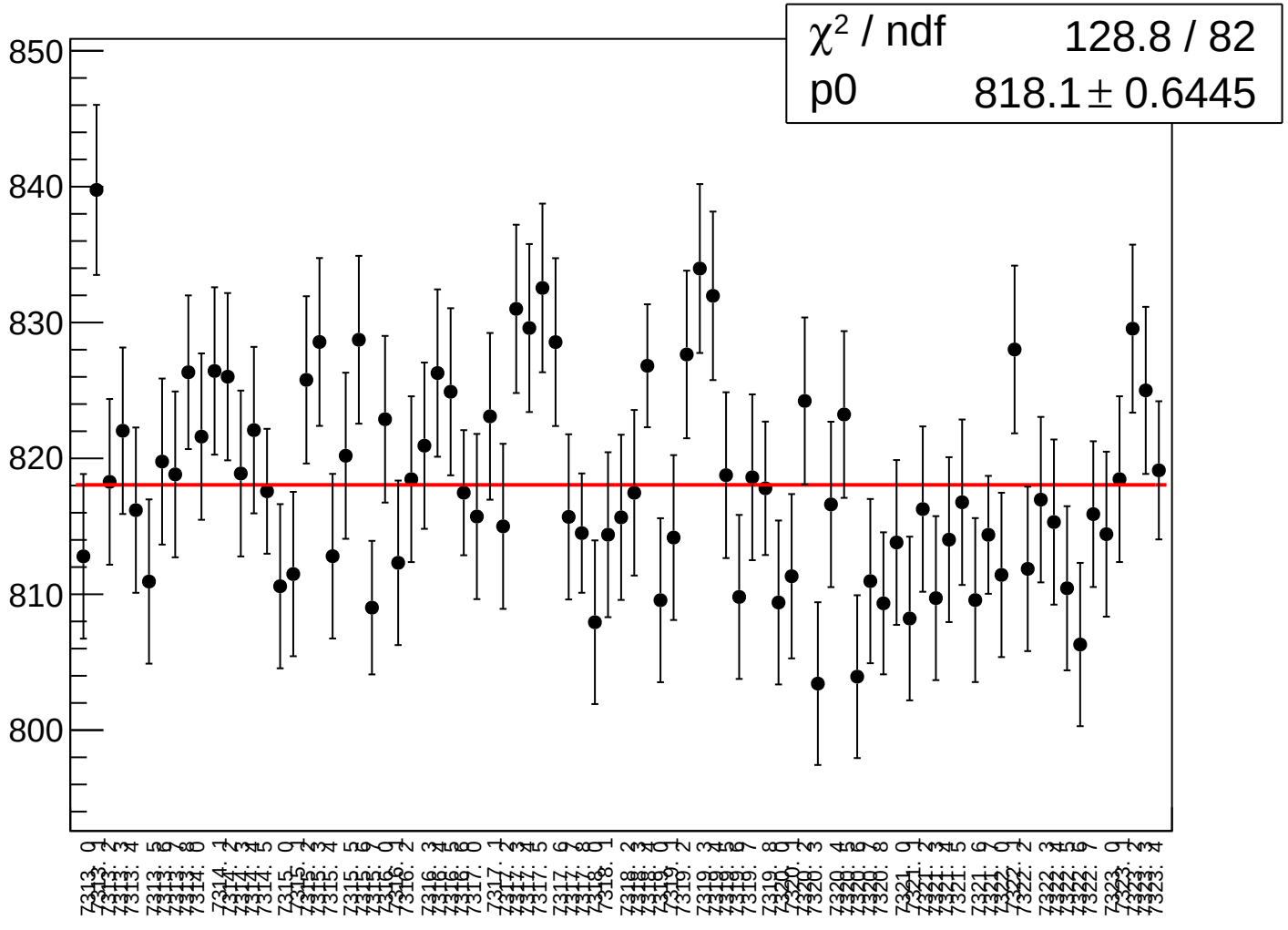

diff_bpm0r05Y_mean vs run
χ² / ndf 69.55 / 82
p0 −15.61 ± 5.595
pull
Entries 83
Mean 145.3
Std Dev 0

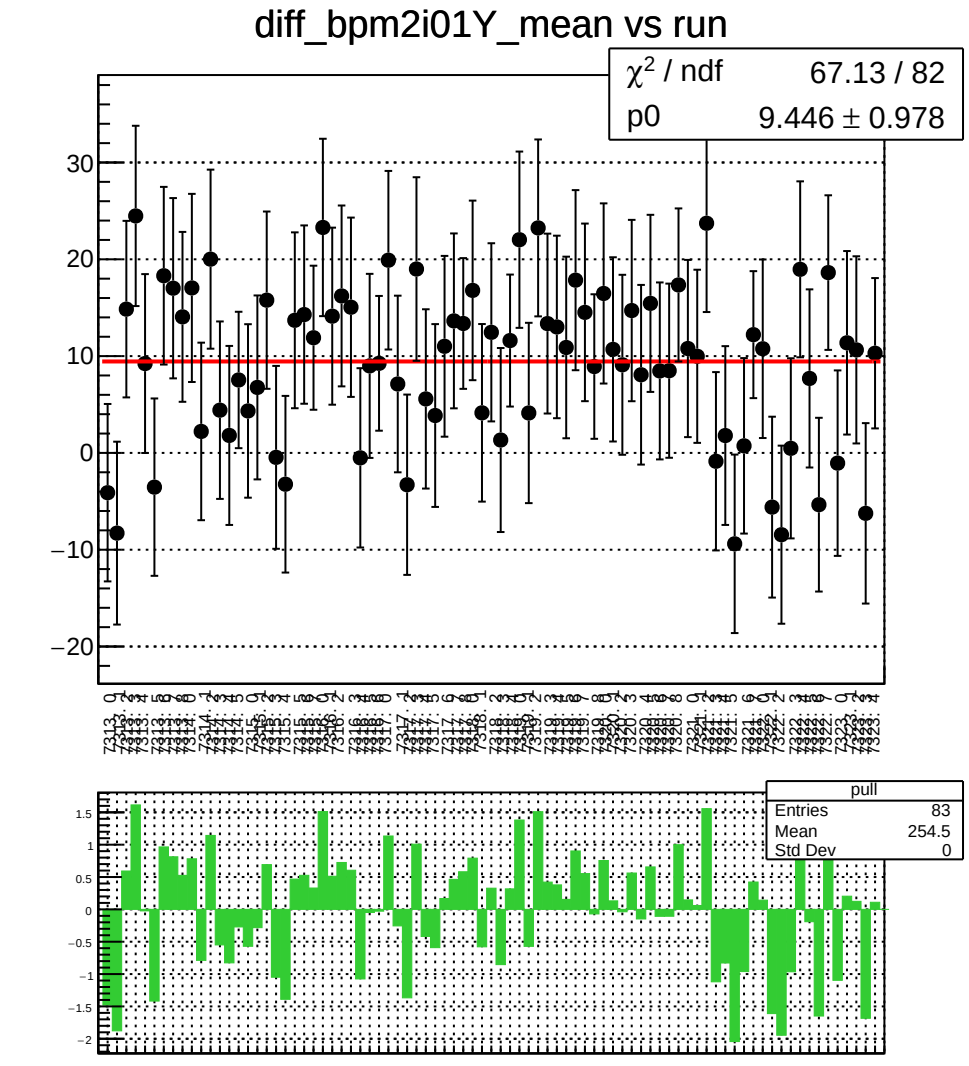

pull1D
Entries 83
Mean 0.02329
Std Dev 0.9151

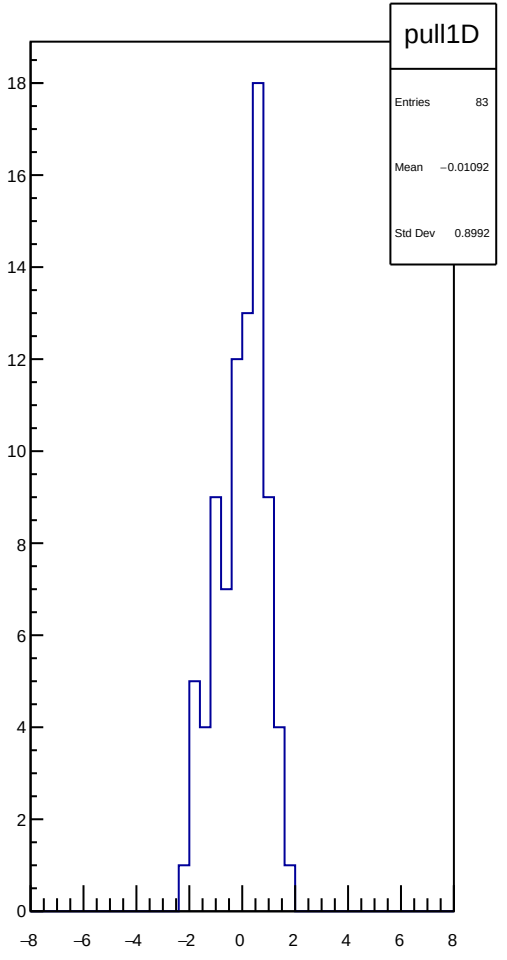

diff_bpm0r05Y_rms vs run
χ² / ndf 4050 / 82
p0 5016 ± 3.956
5800
5600
5400
5200
5000
4800
4600
4400

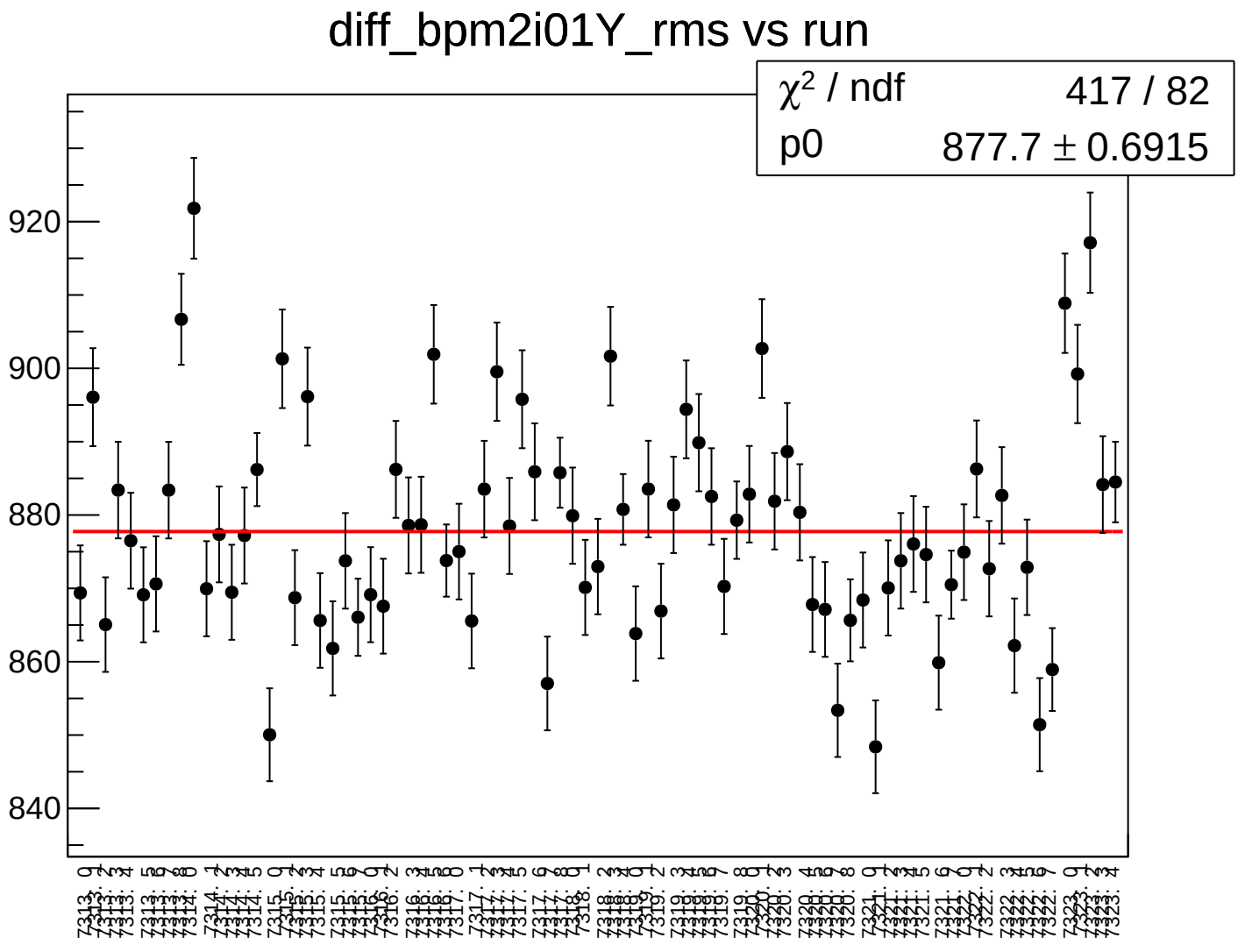

diff_bpm2i01X_mean vs run
χ² / ndf 66.69 / 82
p0 −3.232 ± 0.9114
pull
Entries 83
Mean 291.2
Std Dev 0

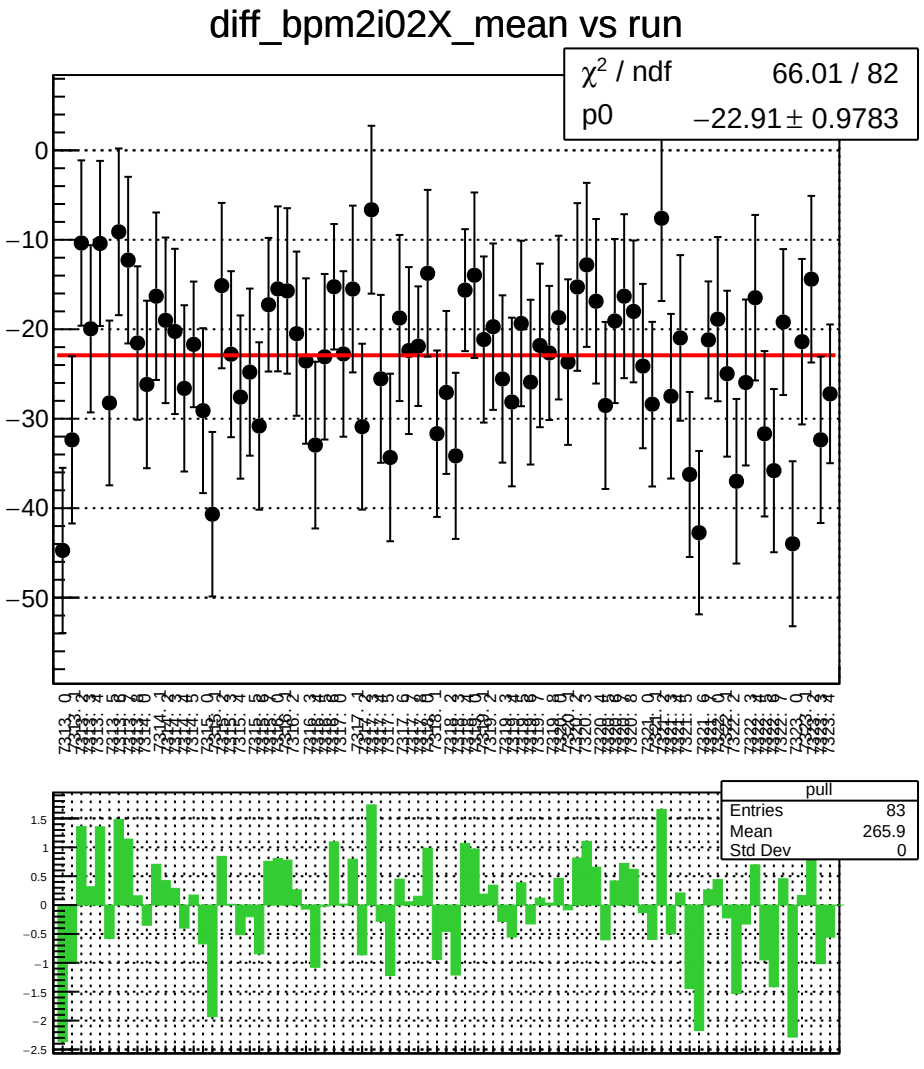

pull1D
Entries 83
Mean −0.008027
Std Dev 0.8963

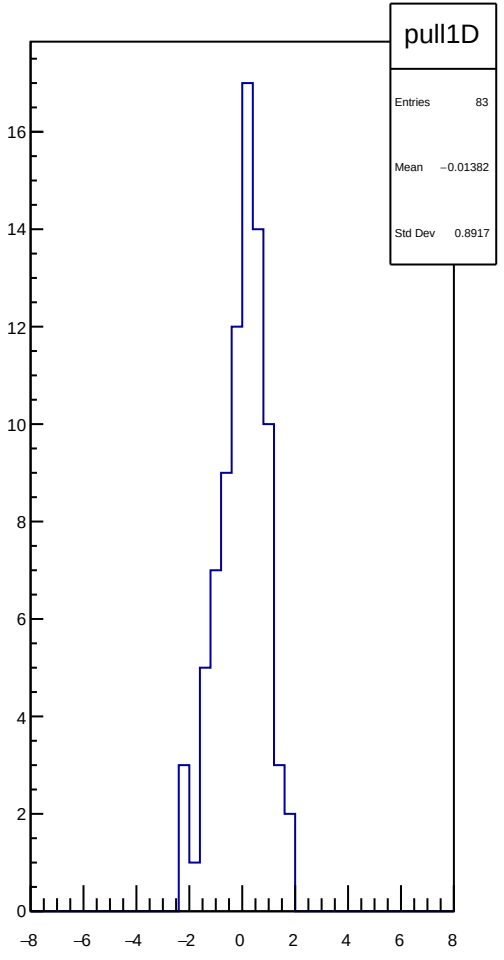

diff_bpm2i01X_rms vs run
χ² / ndf 128.8 / 82
p0 818.1 ± 0.6445
850
840
830
820
810
800

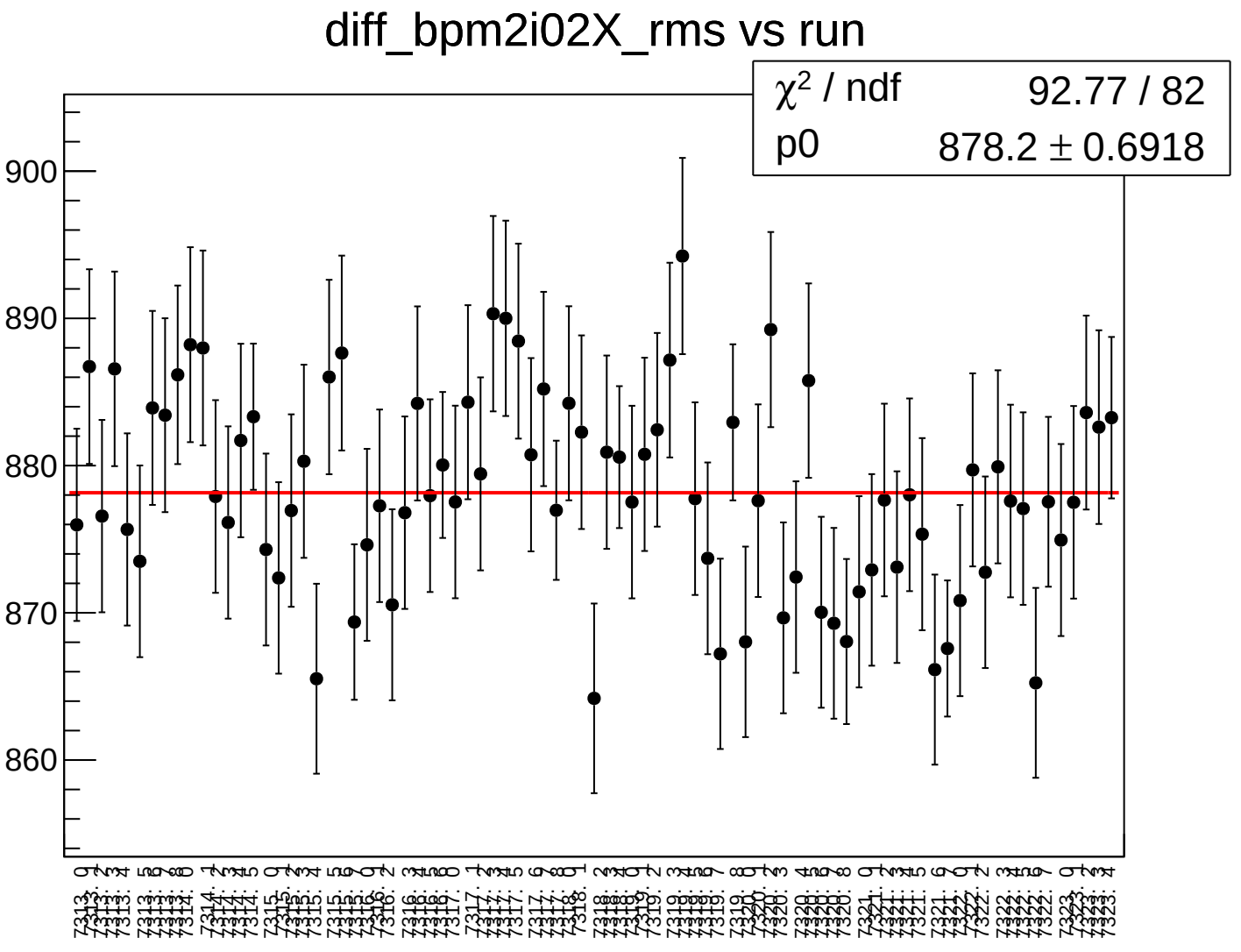

diff_bpm2i01Y_mean vs run
χ² / ndf 67.13 / 82
p0 9.446 ± 0.978
pull
Entries 83
Mean 254.5
Std Dev 0

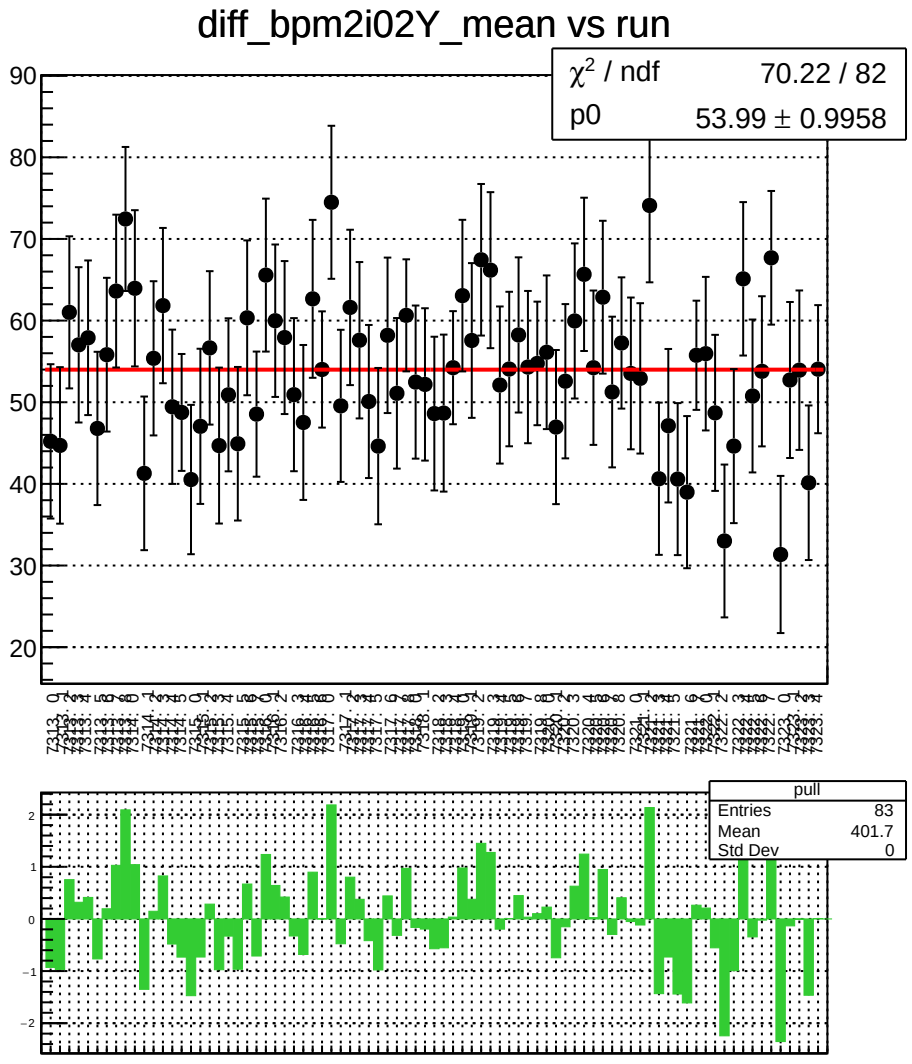

pull1D
Entries 83
Mean −0.01092
Std Dev 0.8992

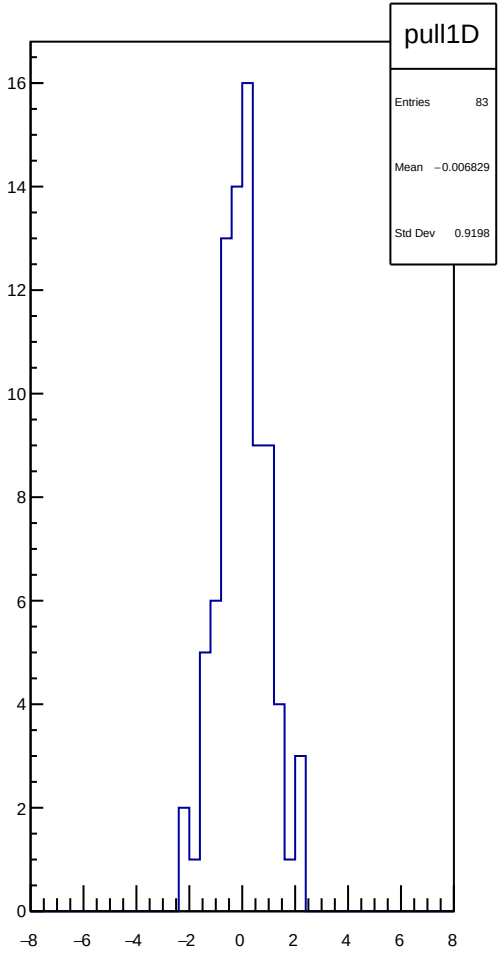

diff_bpm2i01Y_rms vs run
χ² / ndf 417 / 82
p0 877.7 ± 0.6915
920
900
880
860
840

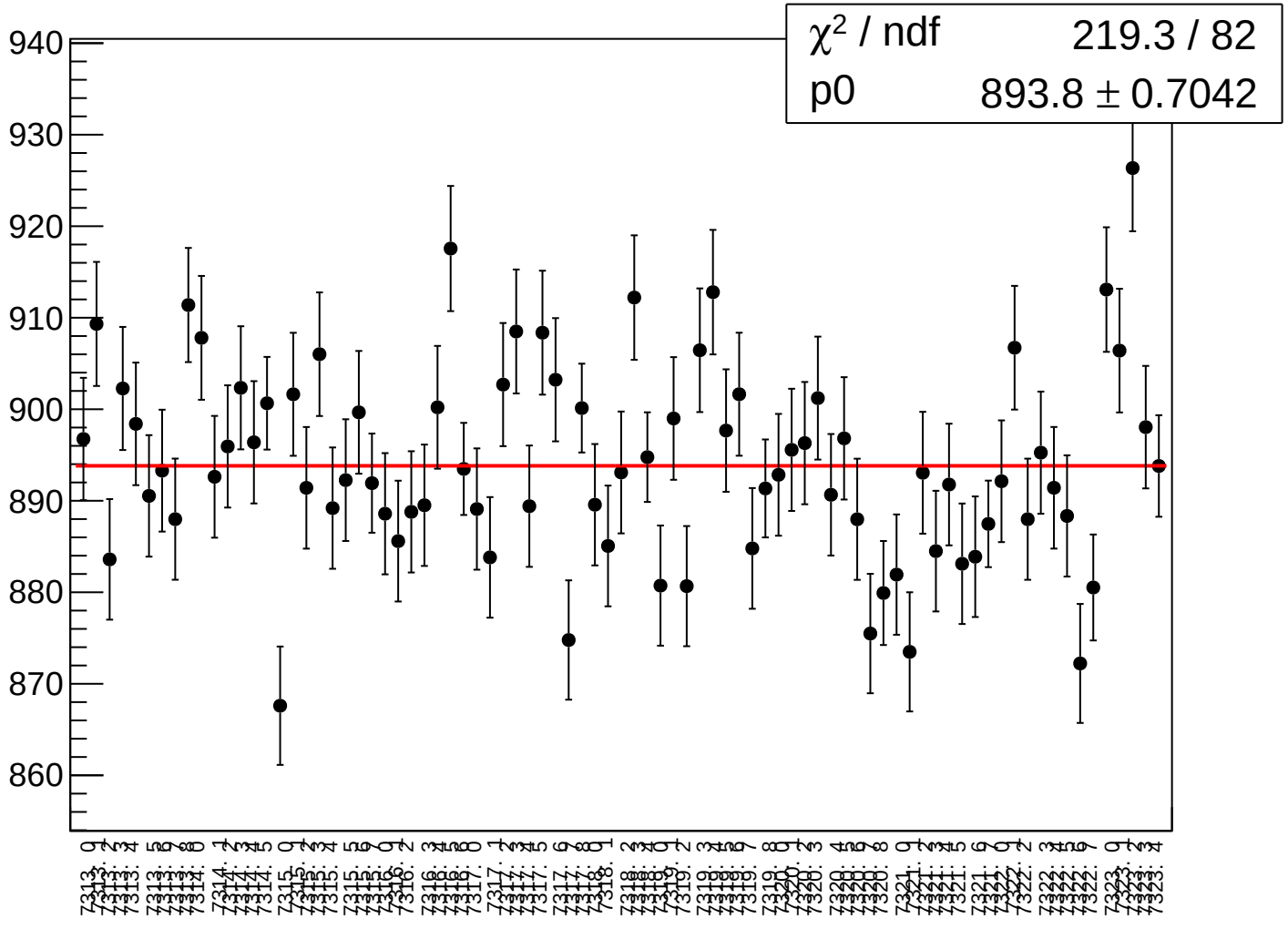

diff_bpm2i02X_mean vs run
χ² / ndf 66.01 / 82
p0 −22.91 ± 0.9783
pull
Entries 83
Mean 265.9
Std Dev 0

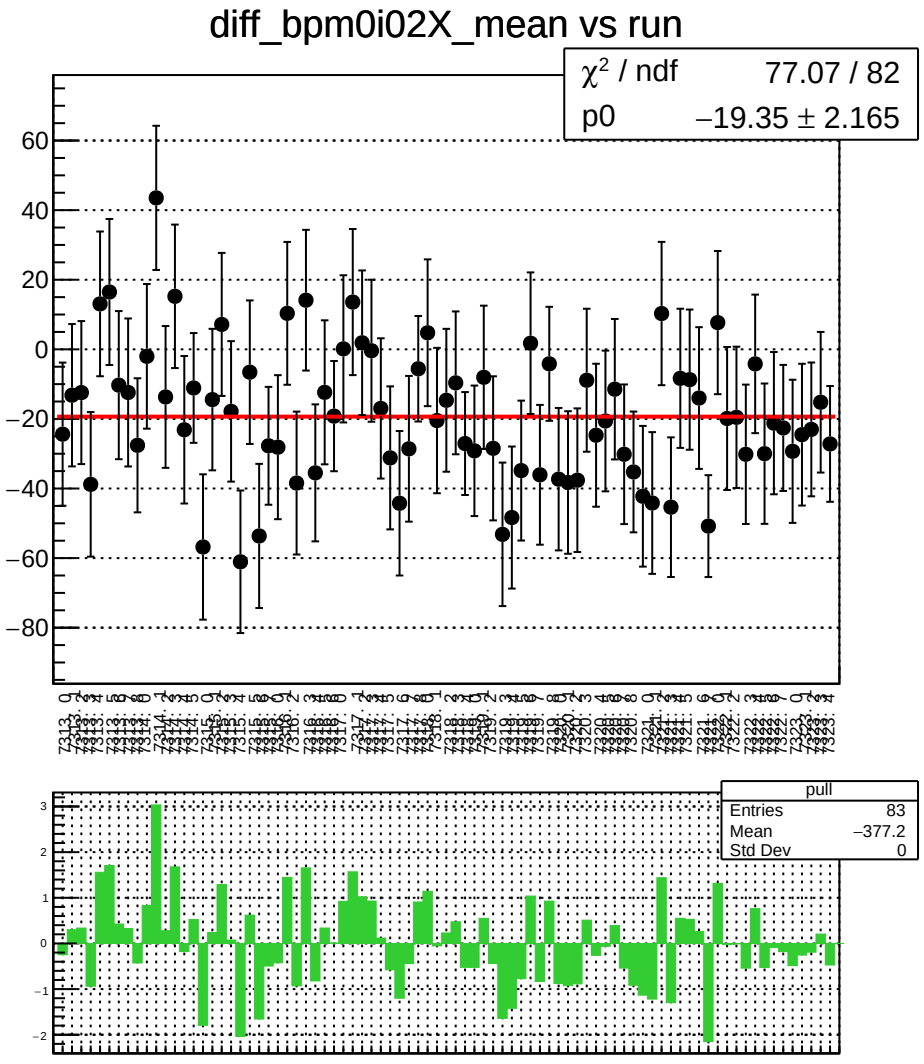

pull1D
Entries 83
Mean −0.01382
Std Dev 0.8917

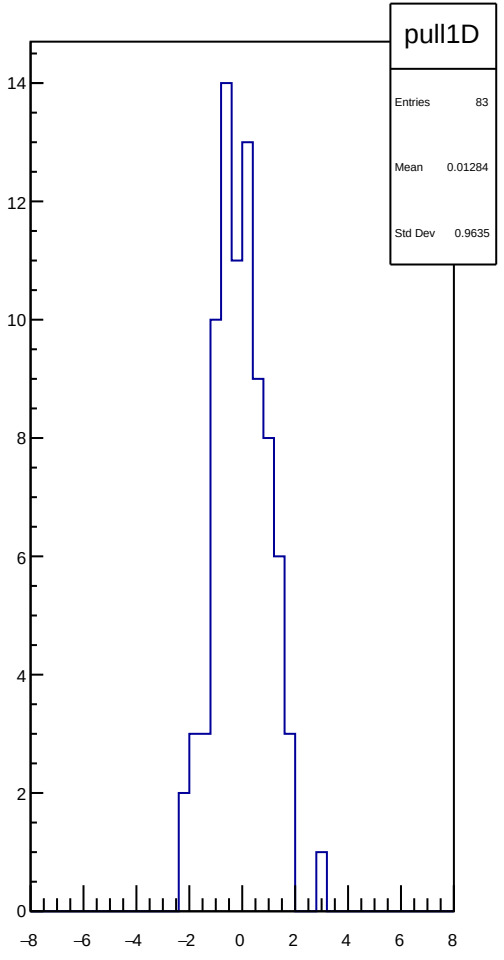

diff_bpm2i02X_rms vs run
χ² / ndf 92.77 / 82
p0 878.2 ± 0.6918
900
890
880
870
860

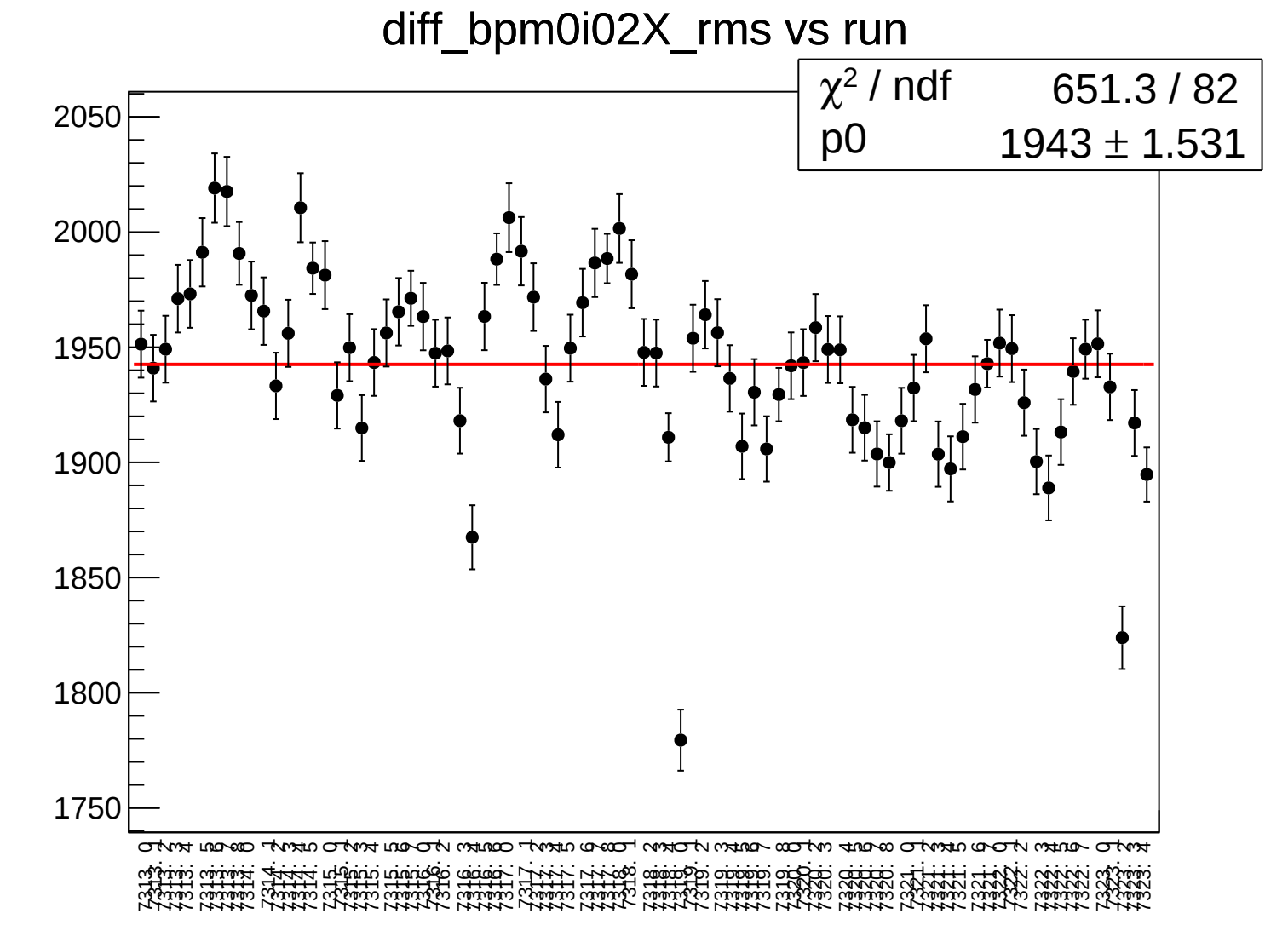

diff_bpm2i02Y_mean vs run
χ² / ndf 70.22 / 82
p0 53.99 ± 0.9958
pull
Entries 83
Mean 401.7
Std Dev 0

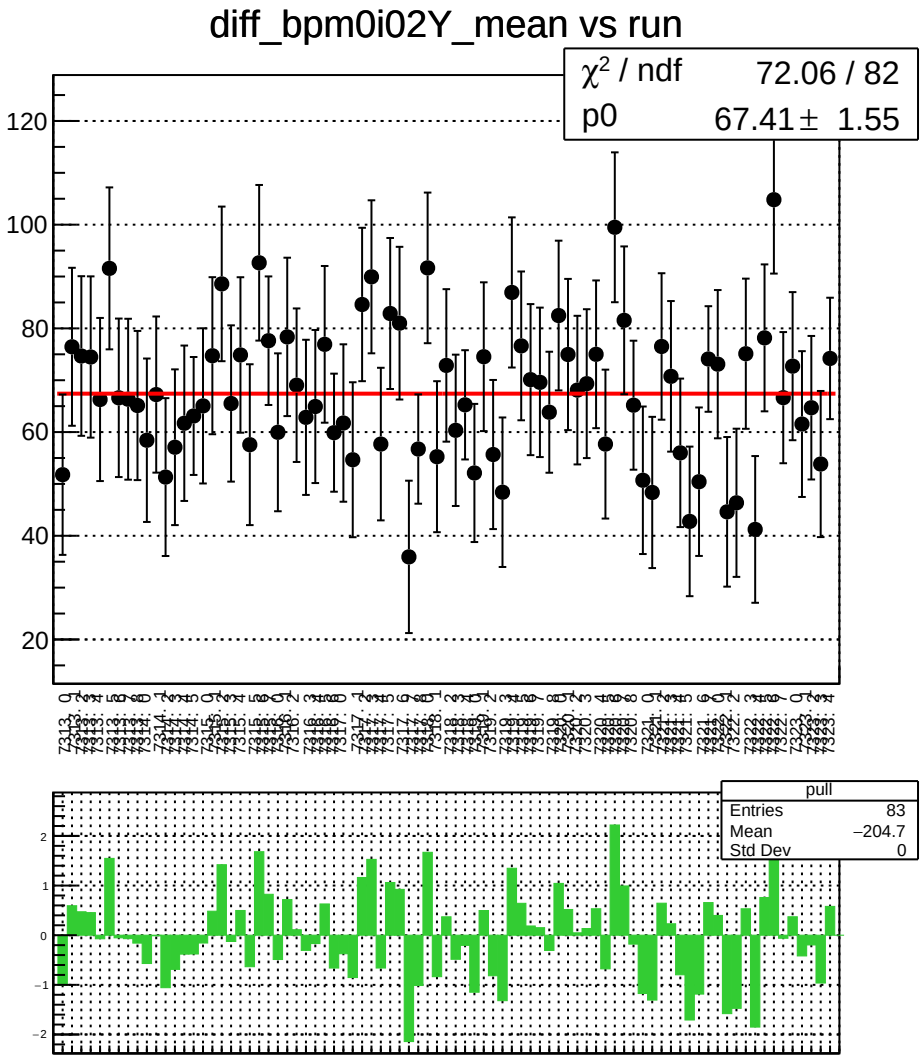

pull1D
Entries 83
Mean −0.006829
Std Dev 0.9198

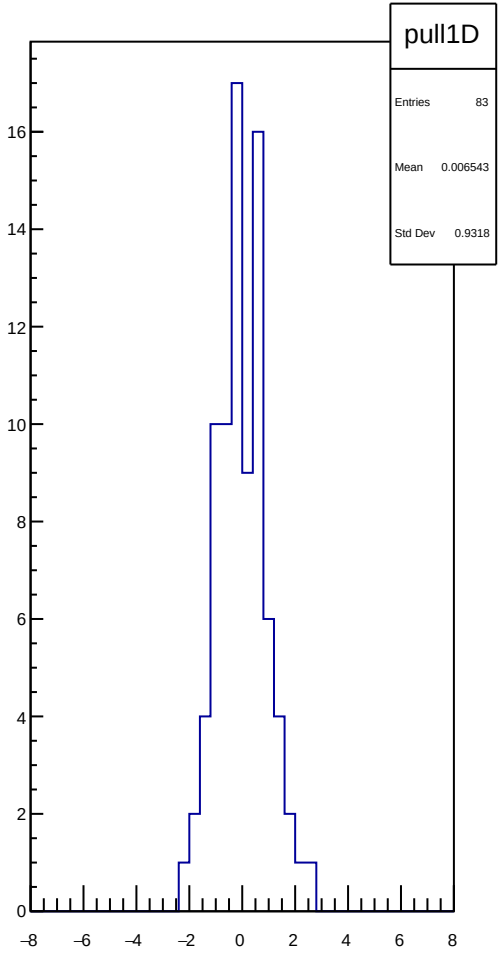

diff_bpm2i02Y_rms vs run
χ² / ndf 219.3 / 82
p0 893.8 ± 0.7042
940
930
920
910
900
890
880
870
860

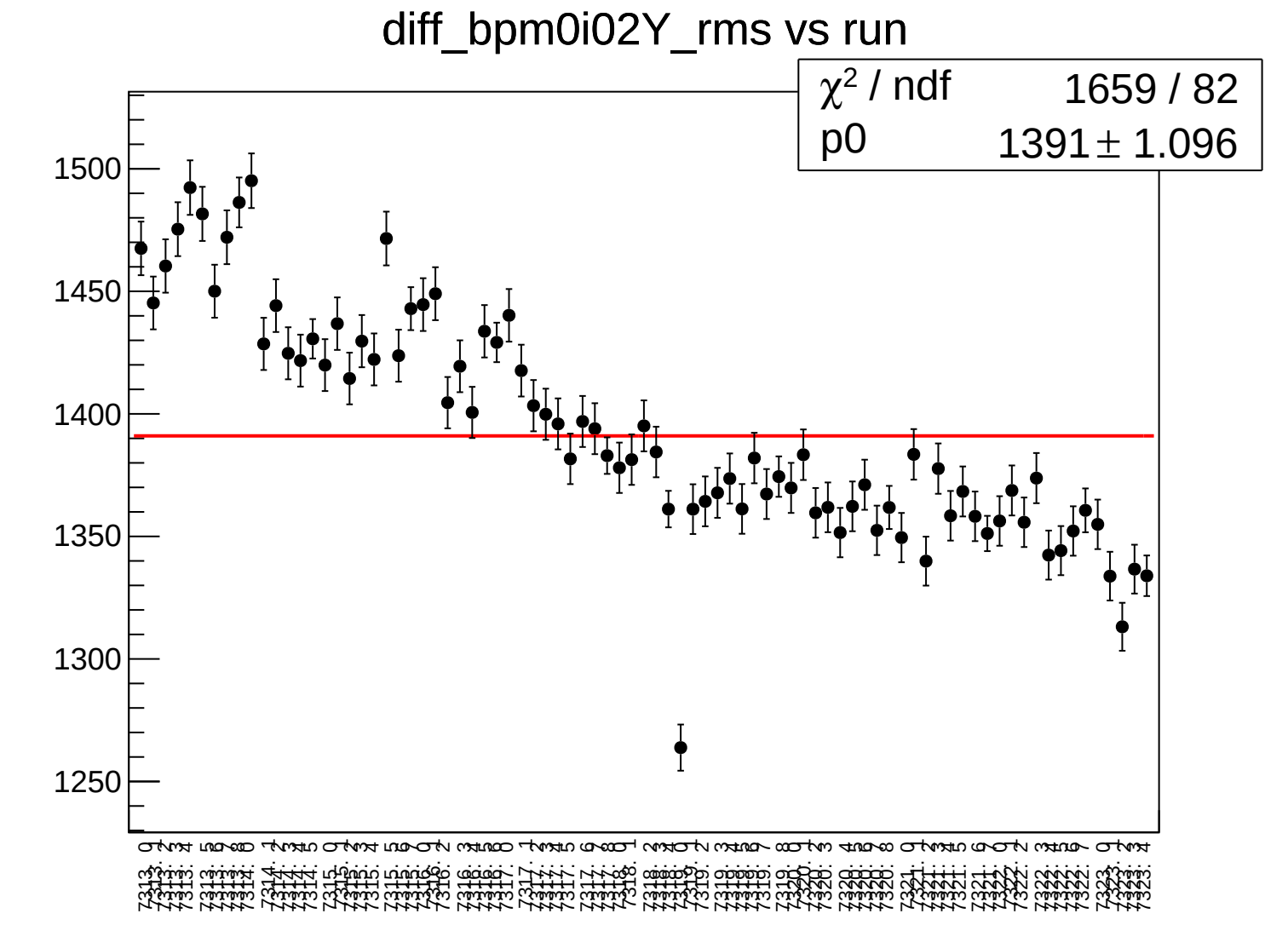

diff_bpm0i02X_mean vs run
χ² / ndf 77.07 / 82
p0 −19.35 ± 2.165
pull
Entries 83
Mean −377.2
Std Dev 0

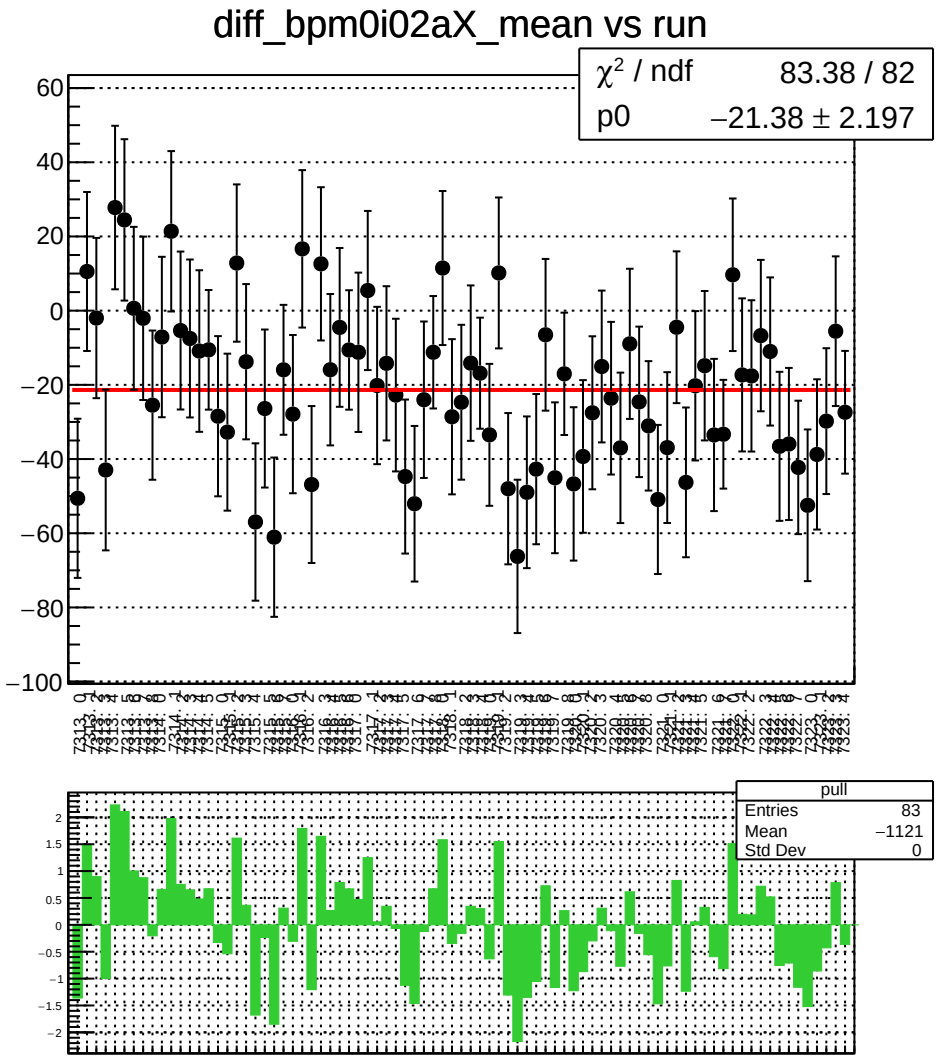

pull1D
Entries 83
Mean 0.01284
Std Dev 0.9635

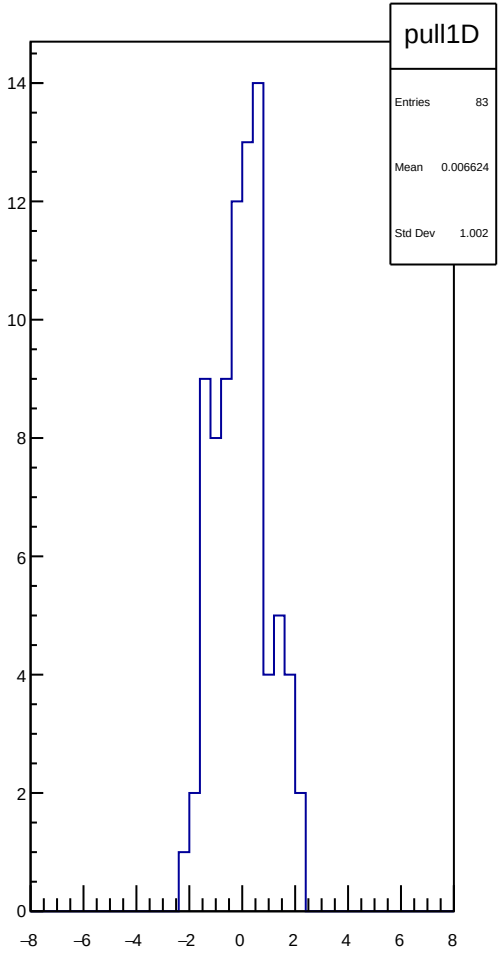

diff_bpm0i02X_rms vs run
χ² / ndf 651.3 / 82
p0 1943 ± 1.531
2050
2000
1950
1900
1850
1800
1750

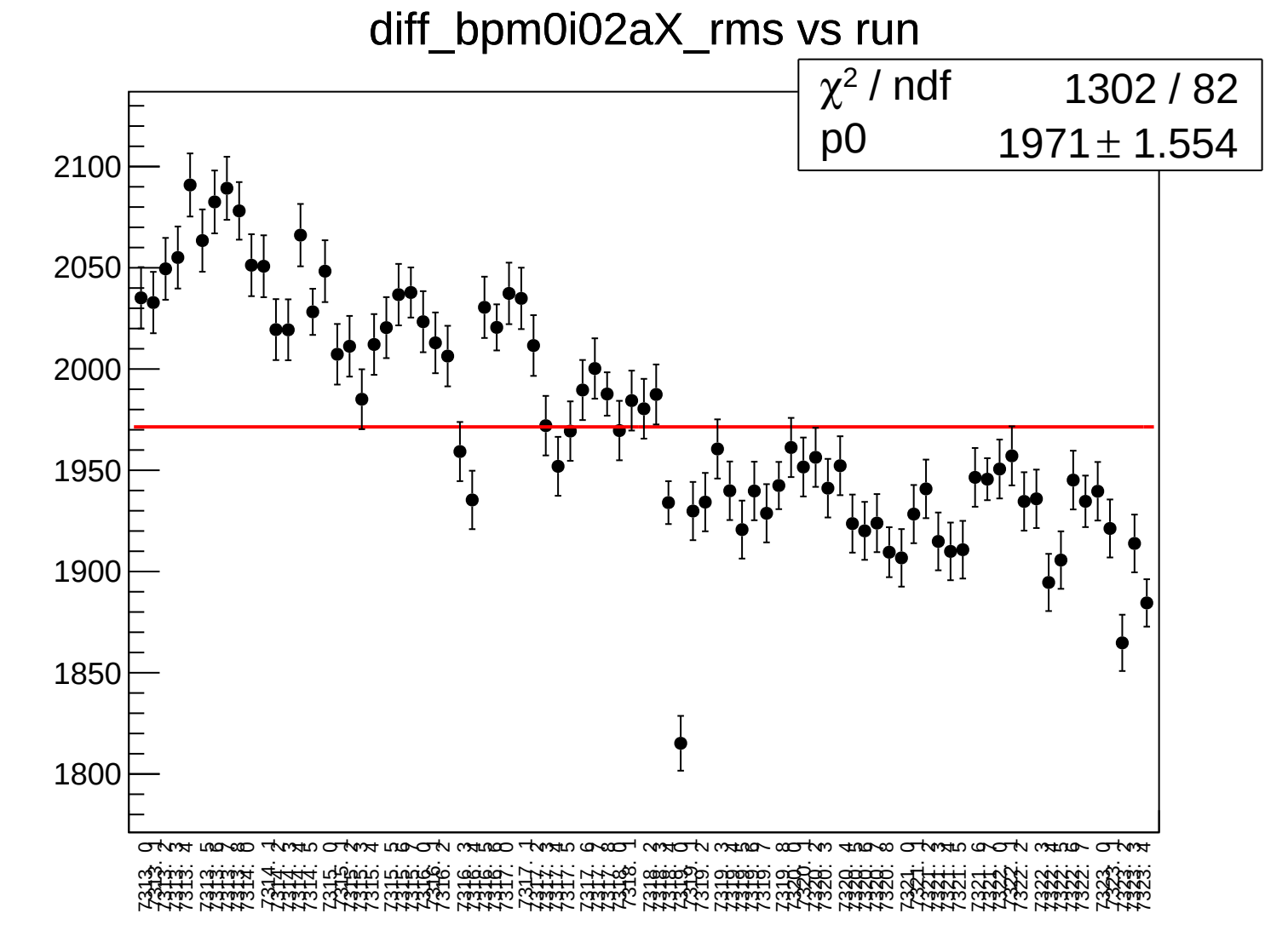

diff_bpm0i02Y_mean vs run
χ^2 / ndf 72.06 / 82
p0 67.41 ± 1.55
pull
Entries 83
Mean −204.7
Std Dev 0

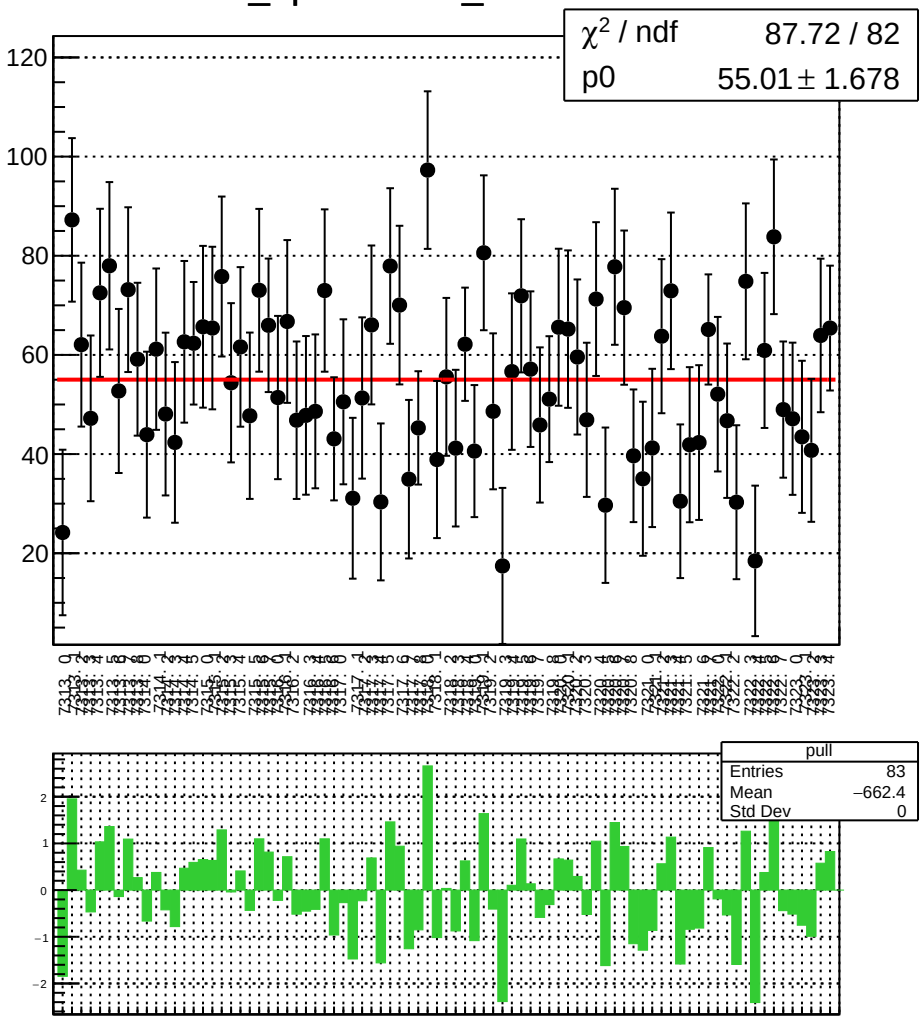

pull1D
Entries 83
Mean 0.006543
Std Dev 0.9318

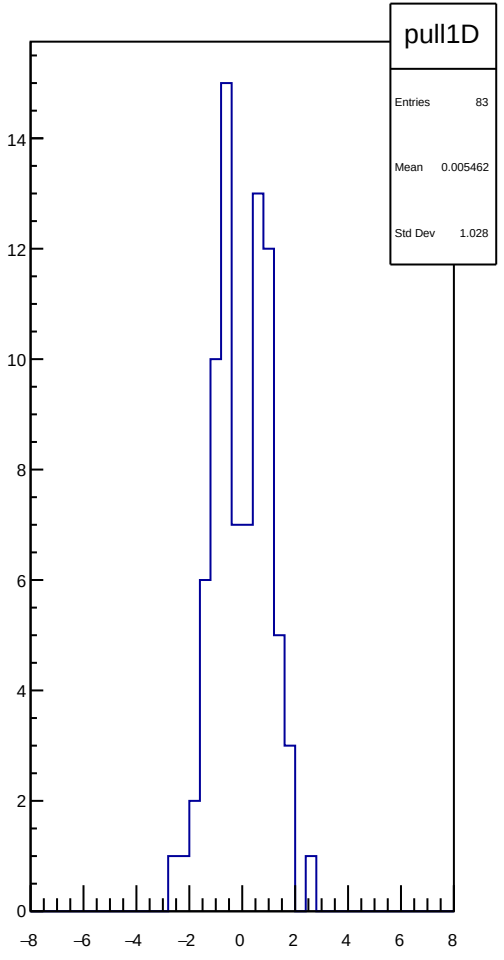

diff_bpm0i02Y_rms vs run
χ² / ndf 1659 / 82
p0 1391 ± 1.096
1500
1450
1400
1350
1300
1250

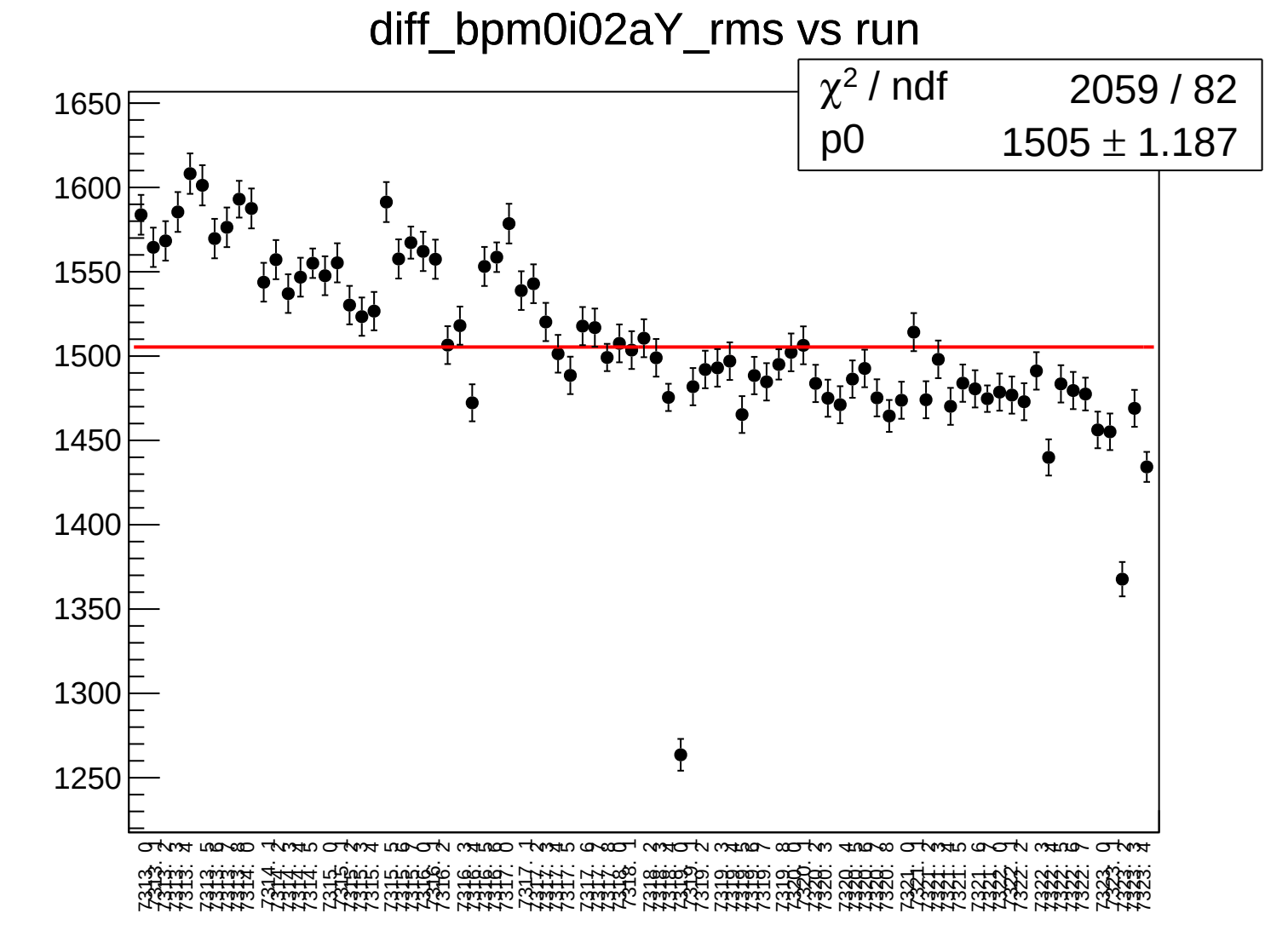

diff_bpm0i02aX_mean vs run
χ² / ndf 83.38 / 82
p0 −21.38 ± 2.197
pull
Entries 83
Mean −1121
Std Dev 0

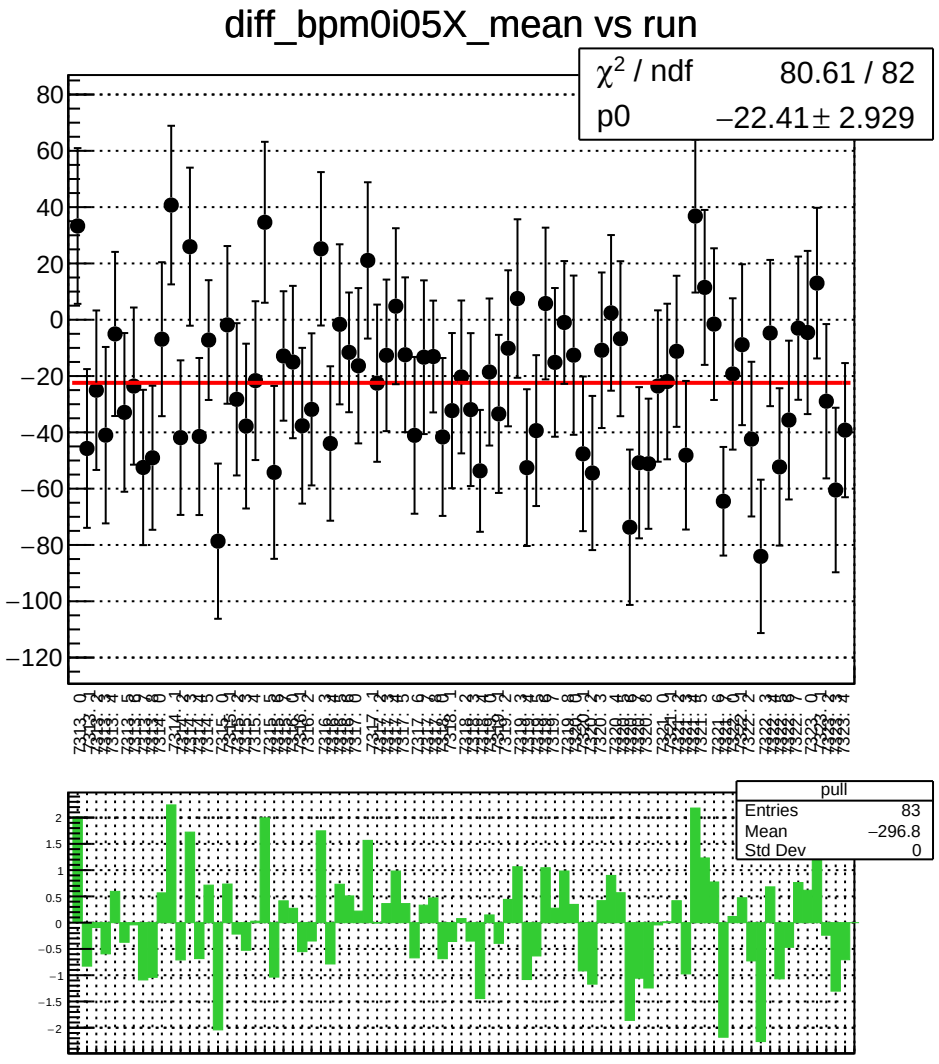

pull1D
Entries 83
Mean 0.006624
Std Dev 1.002

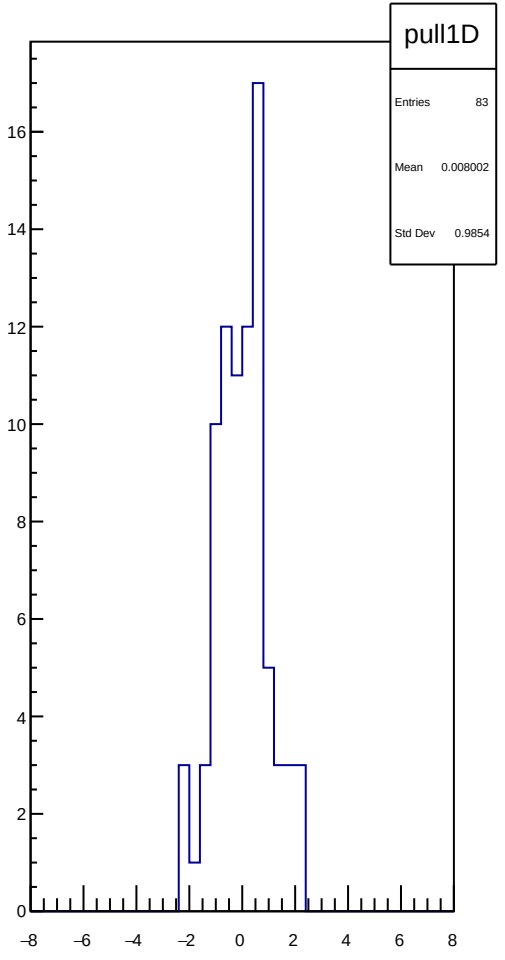

diff_bpm0i02aX_rms vs run
χ² / ndf 1302 / 82
p0 1971 ± 1.554
2100
2050
2000
1950
1900
1850
1800

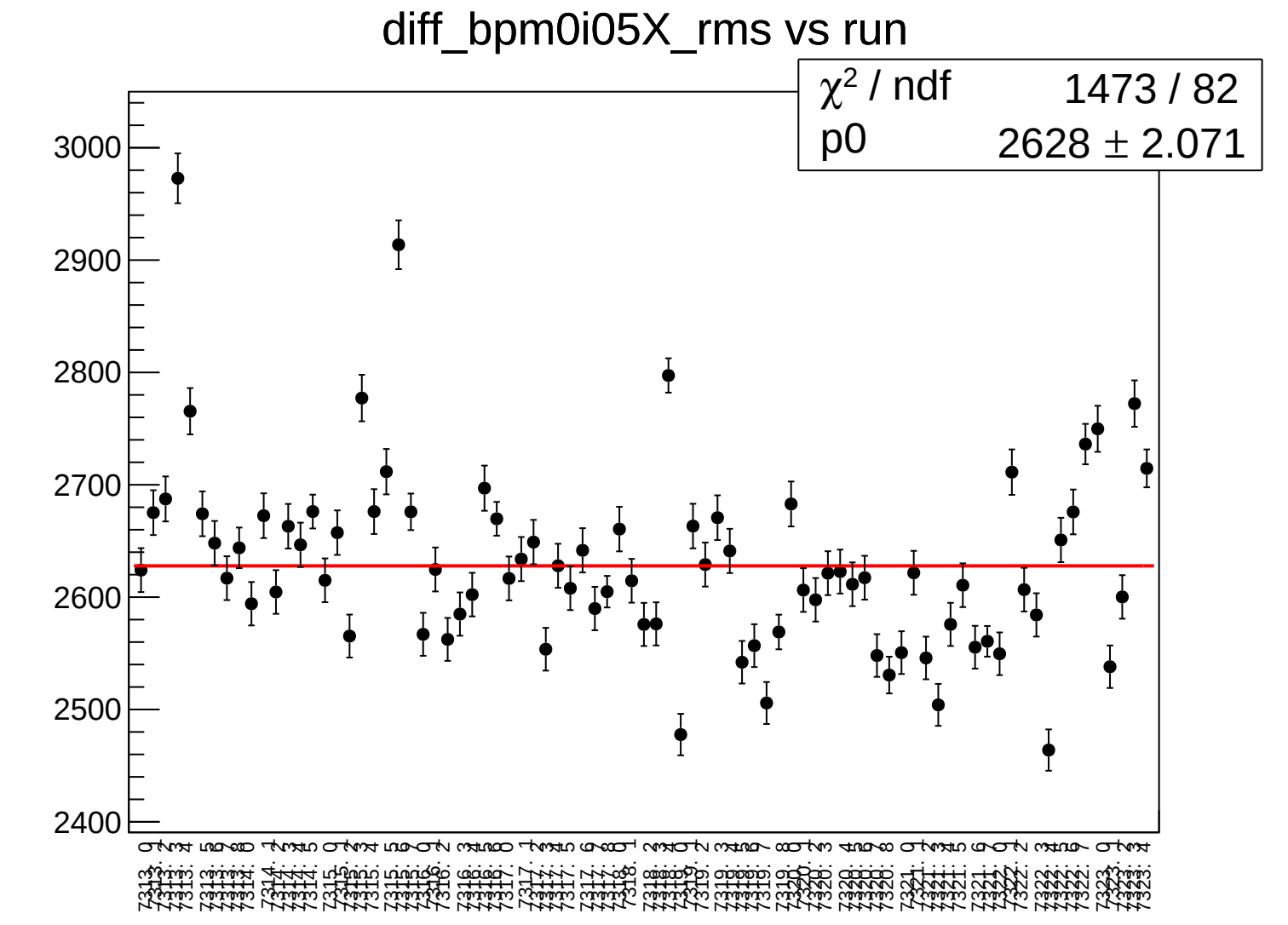

diff_bpm0i02aY_mean vs run
χ^2 / ndf 87.72 / 82
p0 55.01 ± 1.678
pull
Entries 83
Mean −662.4
Std Dev 0

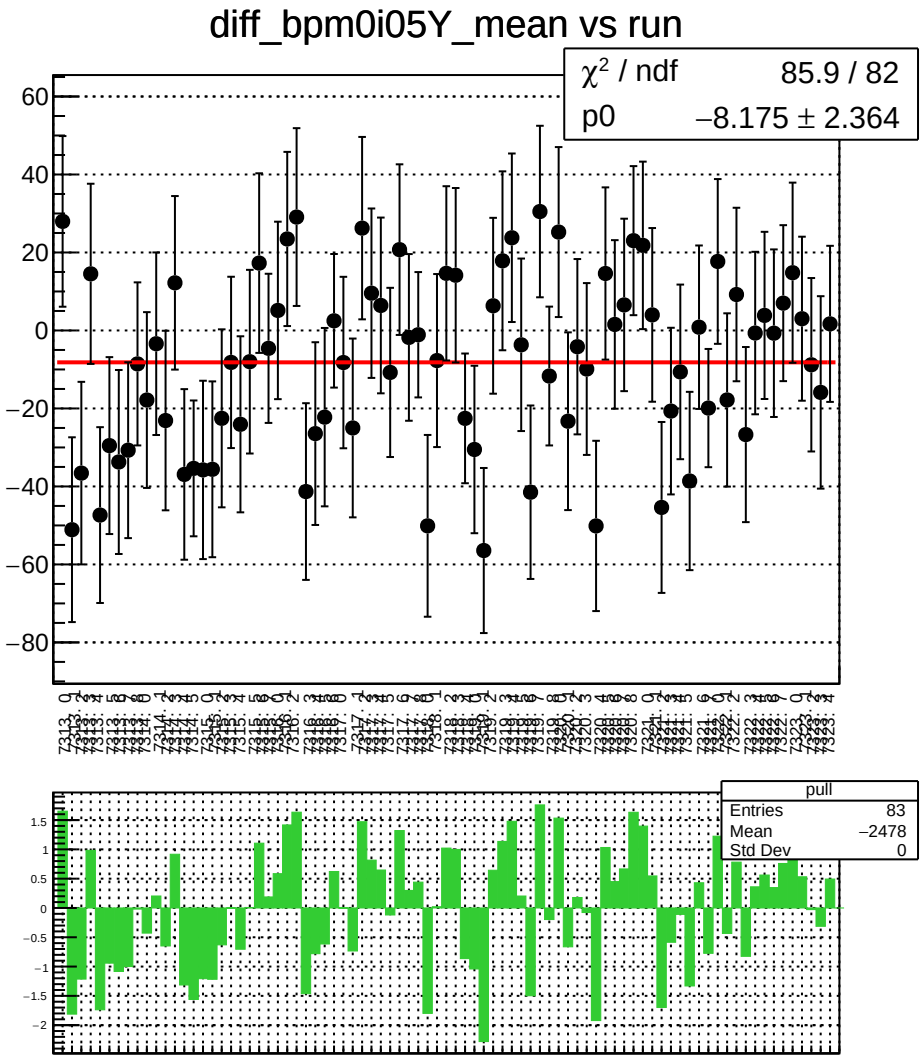

pull1D
Entries 83
Mean 0.005462
Std Dev 1.028

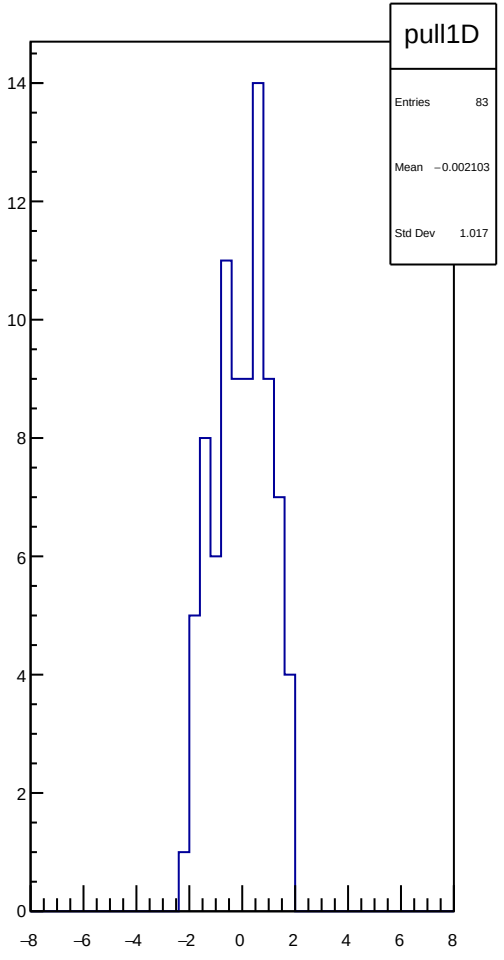

diff_bpm0i02aY_rms vs run
χ² / ndf 2059 / 82
p0 1505 ± 1.187
1650
1600
1550
1500
1450
1400
1350
1300
1250

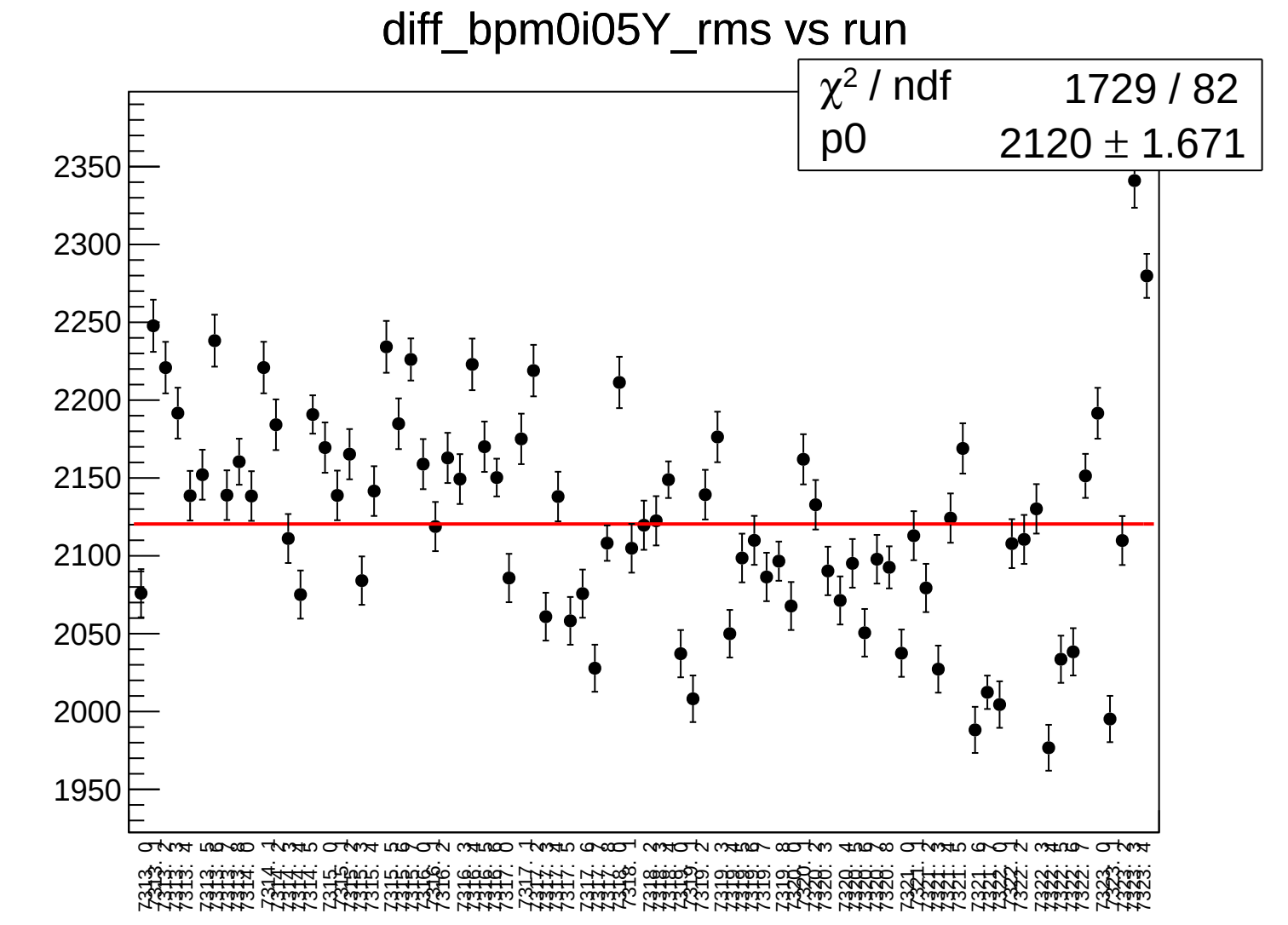

diff_bpm0i05X_mean vs run
χ² / ndf 80.61 / 82
p0 −22.41± 2.929
pull
Entries 83
Mean −296.8
Std Dev 0

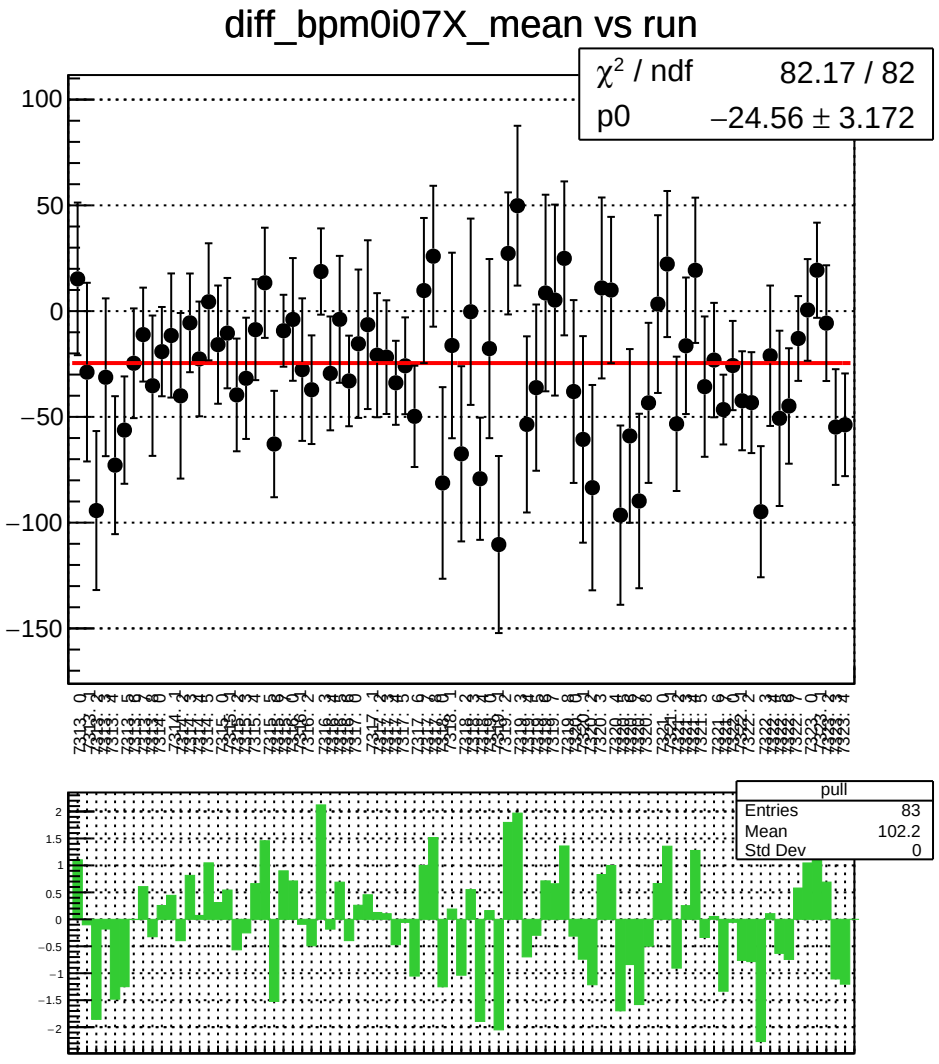

pull1D
Entries 83
Mean 0.008002
Std Dev 0.9854

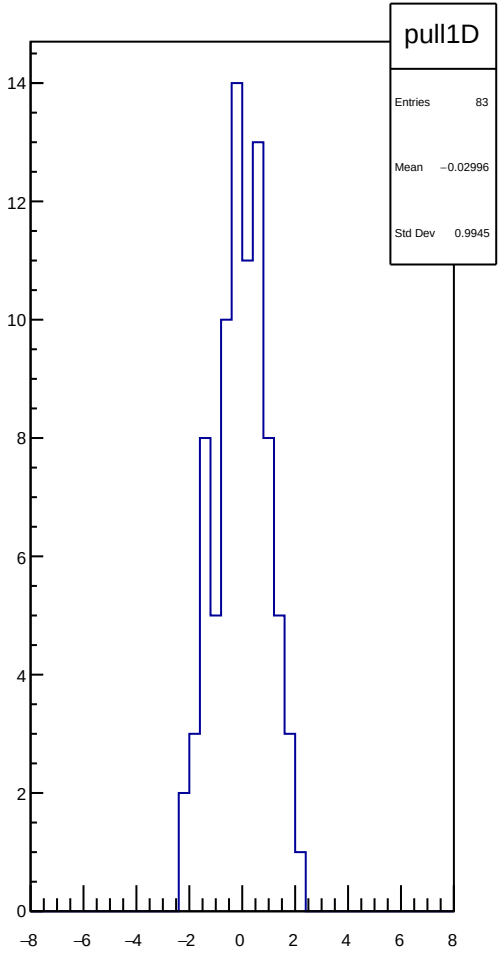

diff_bpm0i05X_rms vs run
χ² / ndf 1473 / 82
p0 2628 ± 2.071
3000
2900
2800
2700
2600
2500
2400

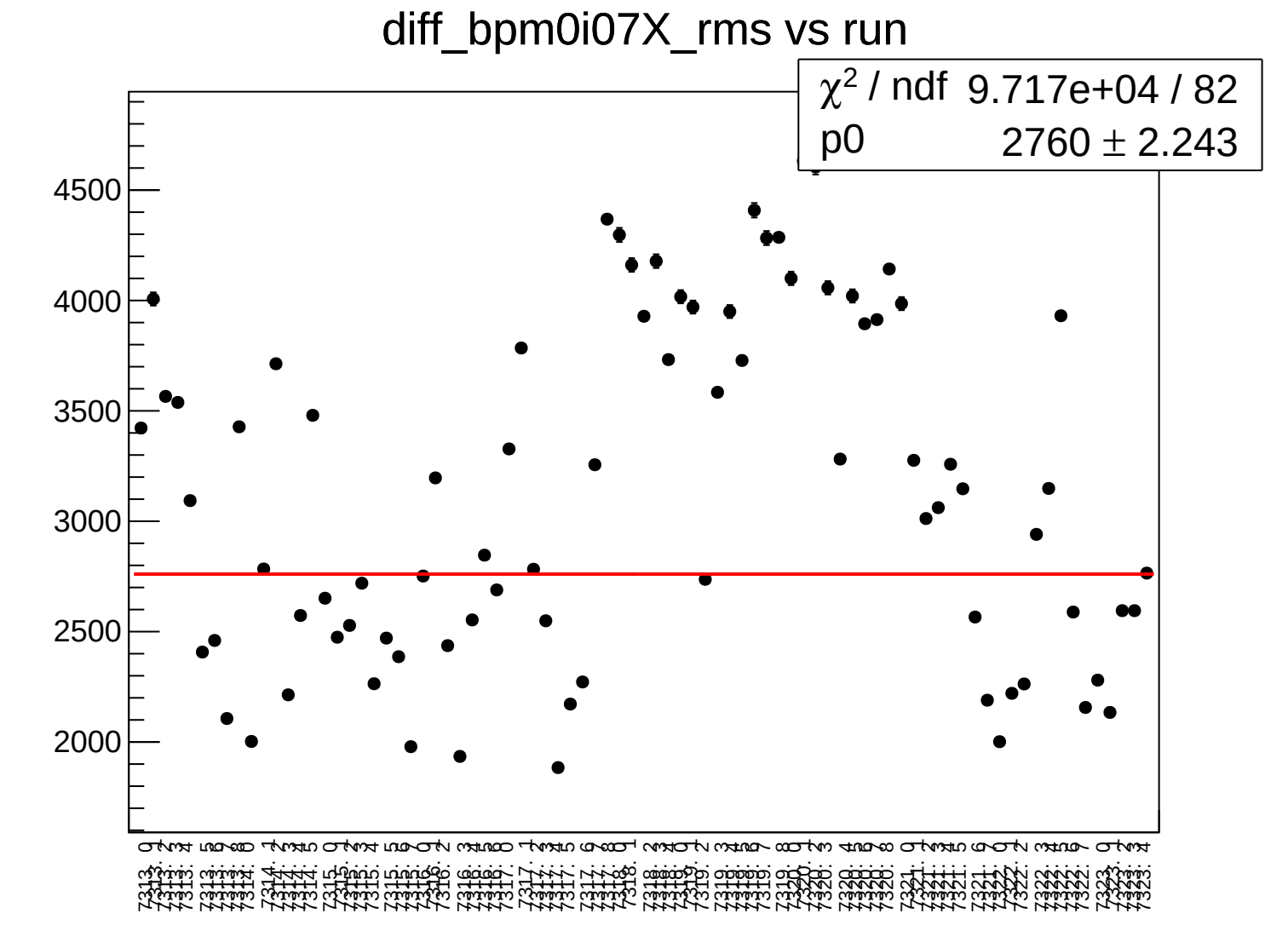

diff_bpm0i05Y_mean vs run
χ² / ndf 85.9 / 82
p0 −8.175 ± 2.364
pull
Entries 83
Mean −2478
Std Dev 0

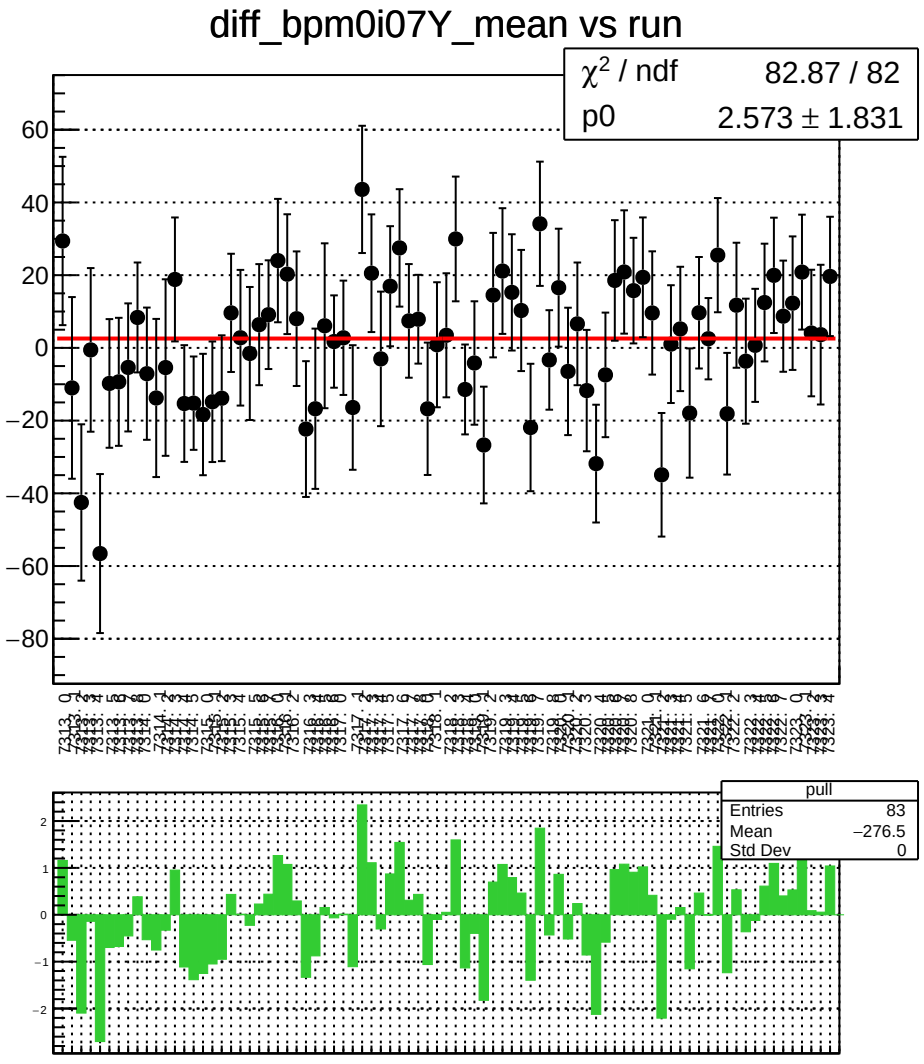

pull1D
Entries 83
Mean −0.002103
Std Dev 1.017

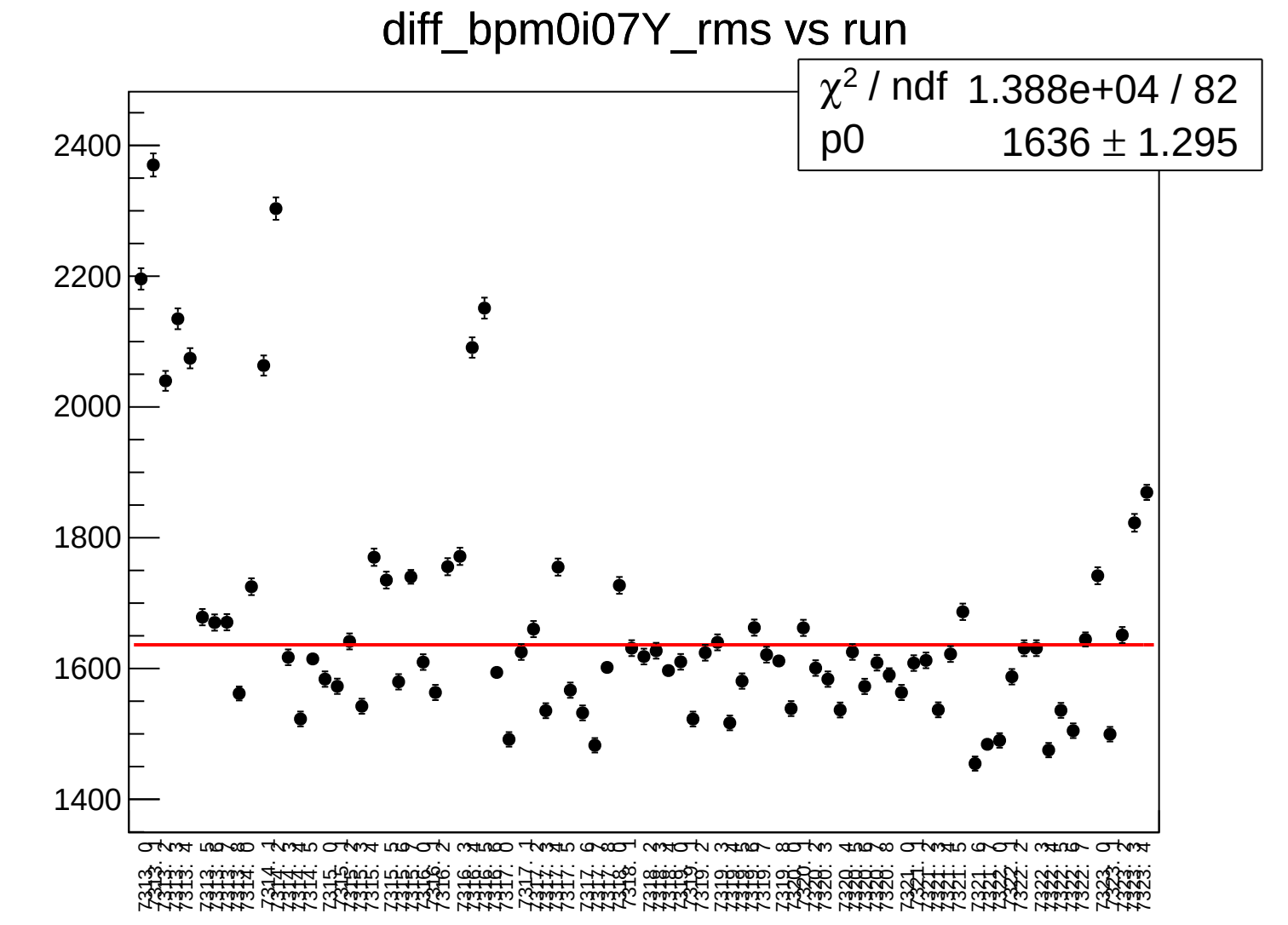

diff_bpm0i05Y_rms vs run
χ² / ndf 1729 / 82
p0 2120 ± 1.671
2350
2300
2250
2200
2150
2100
2050
2000
1950

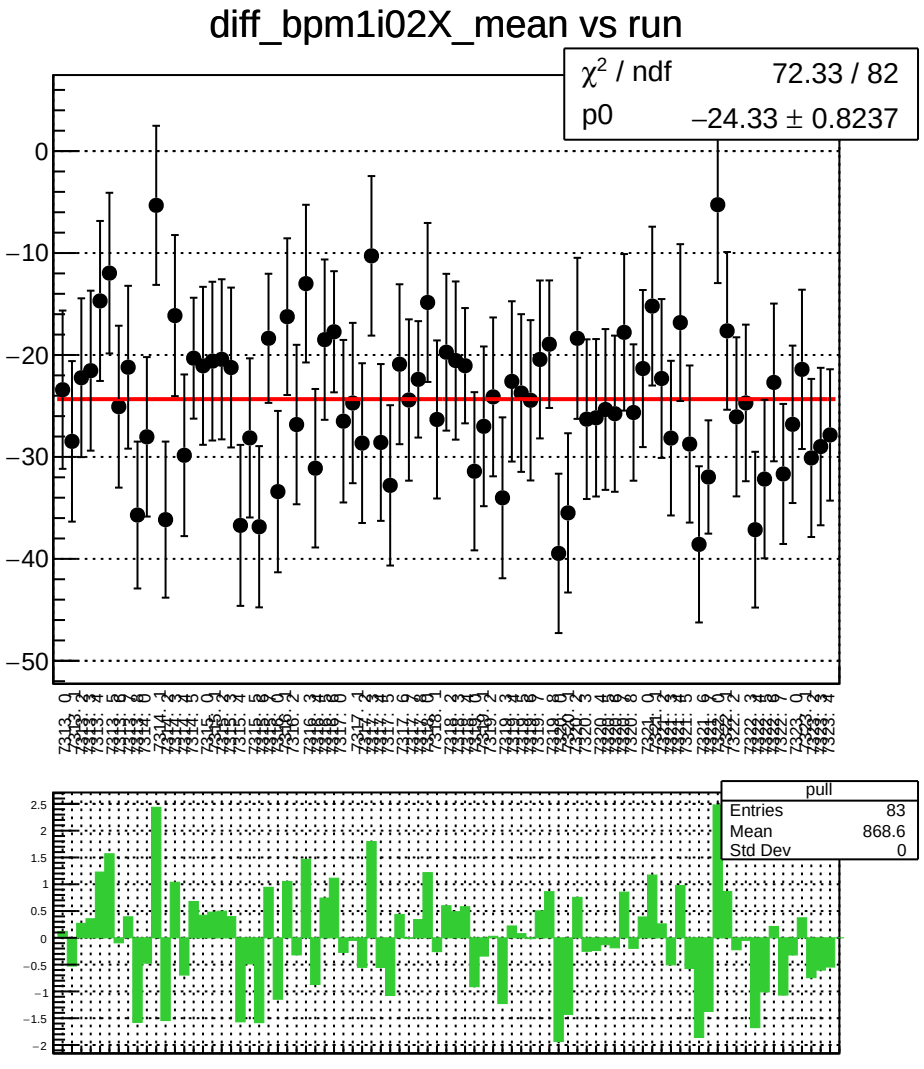

diff_bpm0i07X_mean vs run
χ² / ndf 82.17 / 82
p0 −24.56 ± 3.172
pull
Entries 83
Mean 102.2
Std Dev 0

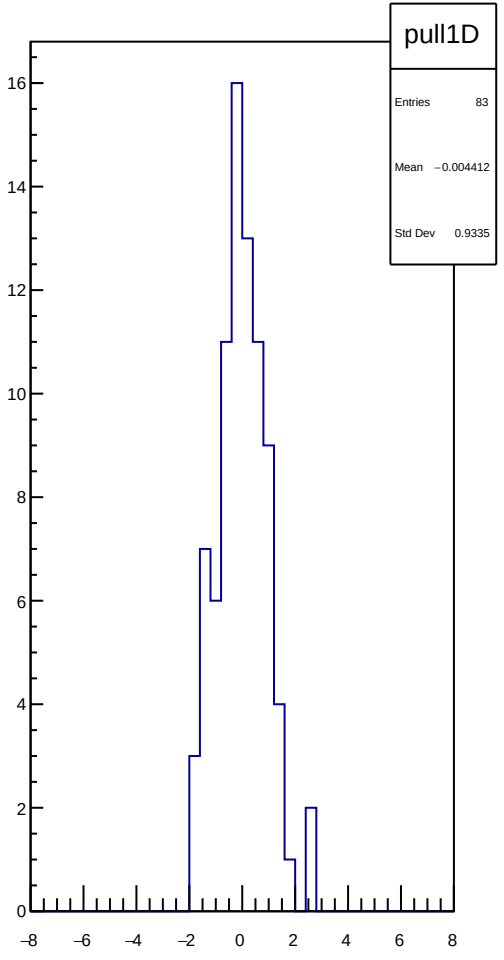

pull1D
Entries 83
Mean −0.02996
Std Dev 0.9945

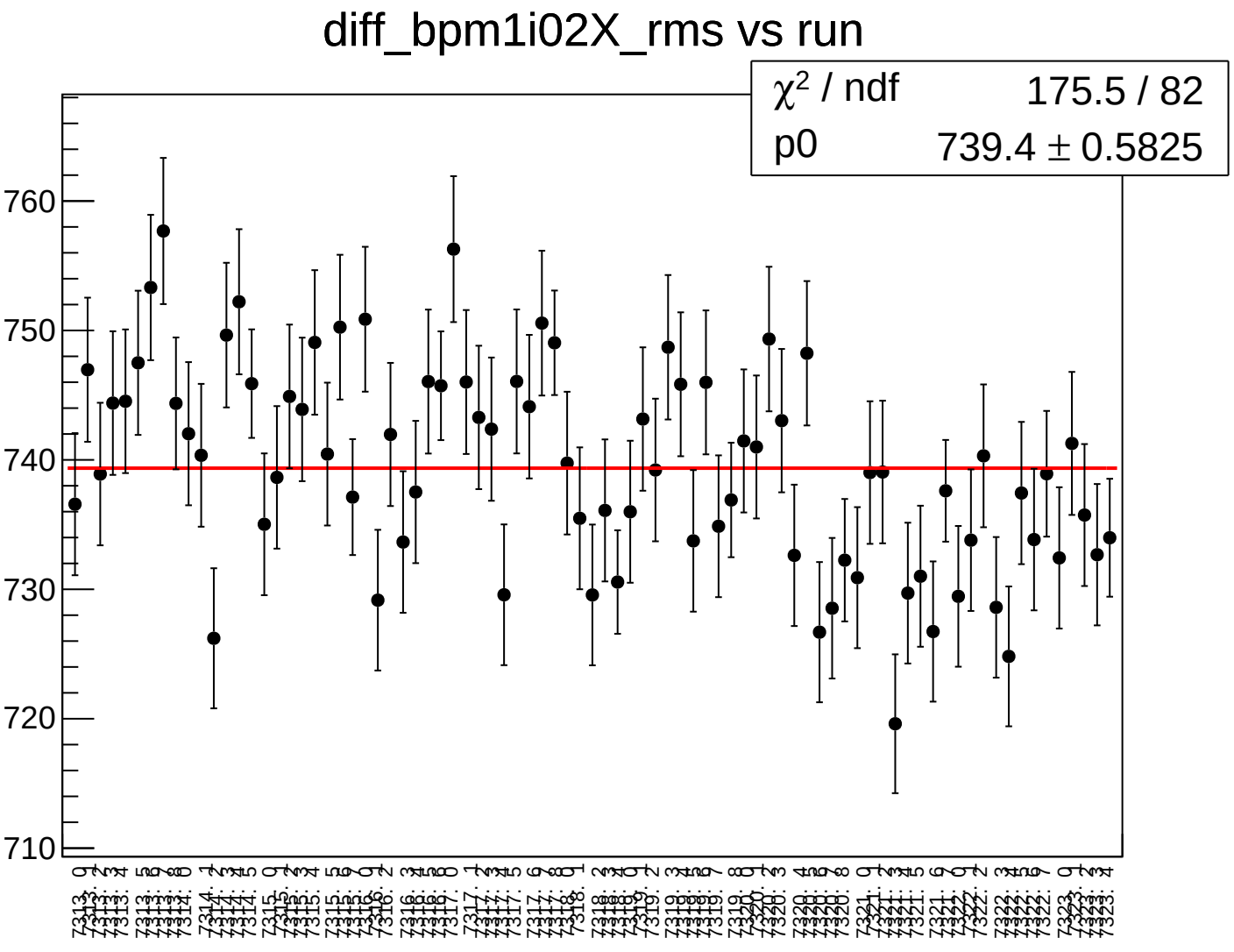

diff_bpm0i07X_rms vs run
χ² / ndf 9.717e+04 / 82
p0 2760 ± 2.243
4500
4000
3500
3000
2500
2000

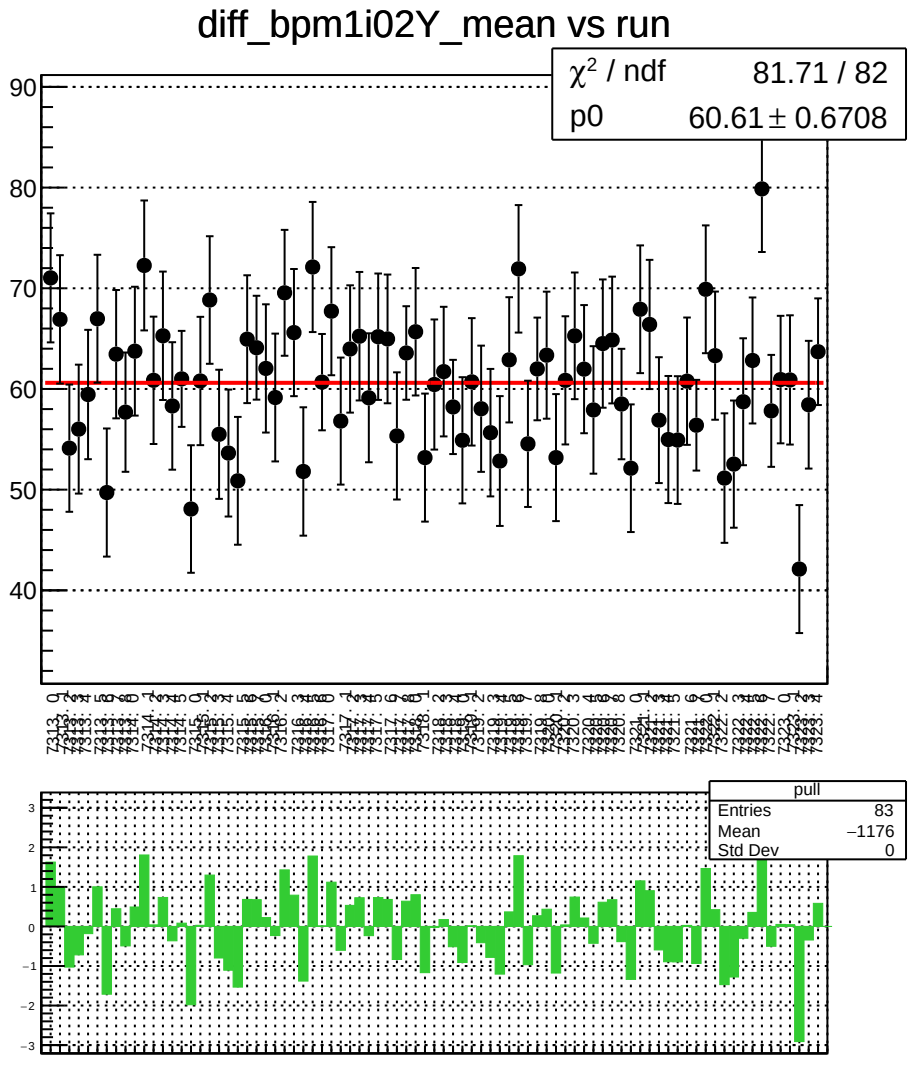

diff_bpm0i07Y_mean vs run
χ² / ndf 82.87 / 82
p0 2.573 ± 1.831
pull
Entries 83
Mean −276.5
Std Dev 0
pull1D
Entries 83
Mean −0.01876
Std Dev 0.999

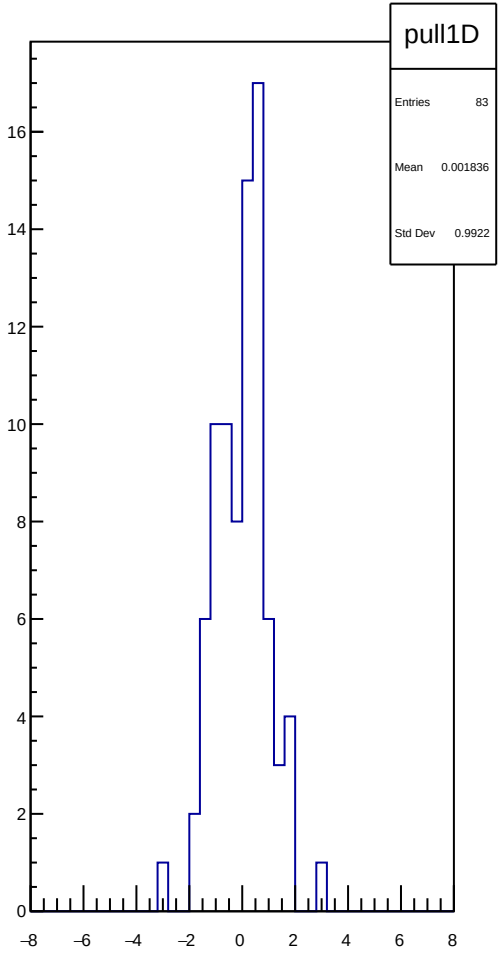

diff_bpm0i07Y_rms vs run
χ² / ndf 1.388e+04 / 82
p0 1636 ± 1.295
2400
2200
2000
1800
1600
1400

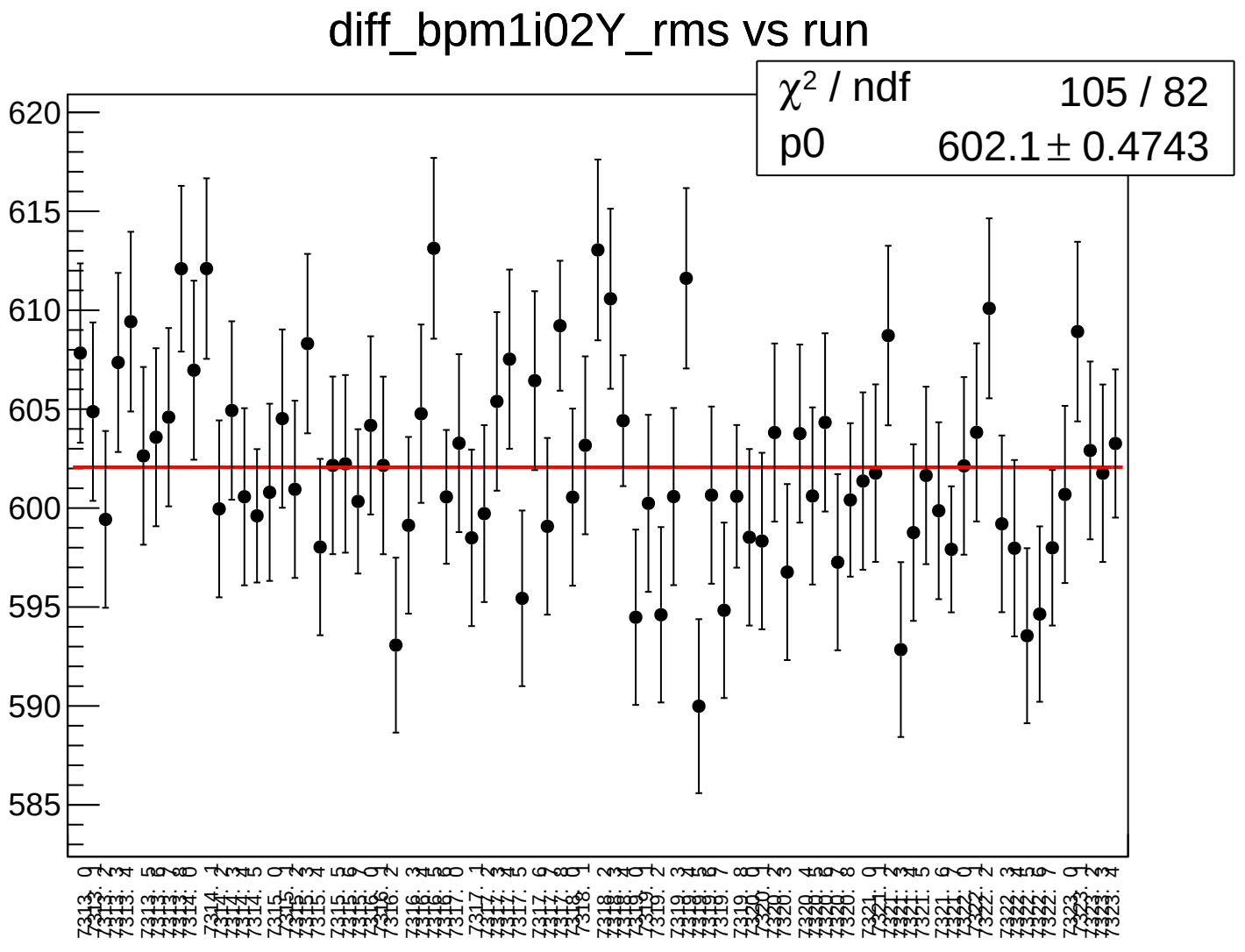

diff_bpm1i02X_mean vs run
χ² / ndf 72.33 / 82
p0 −24.33 ± 0.8237
pull
Entries 83
Mean 868.6
Std Dev 0

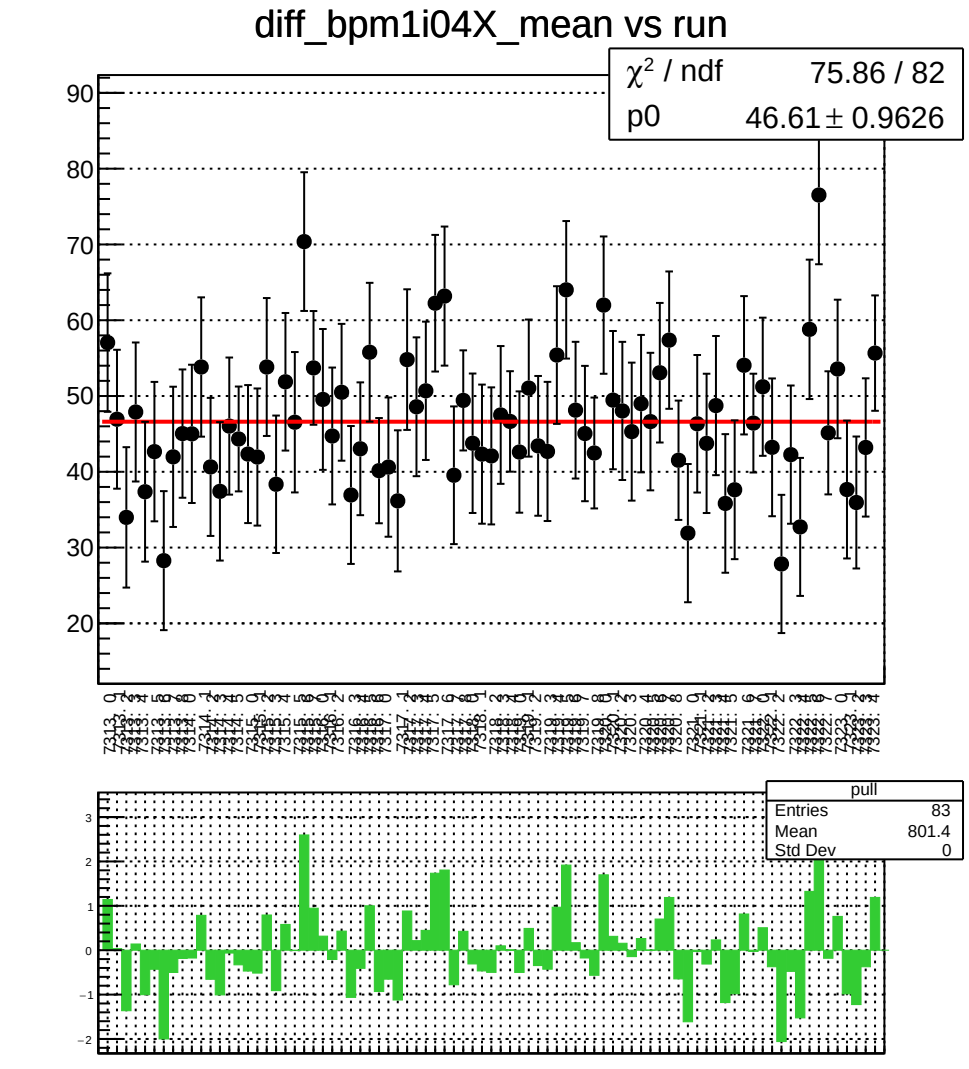

pull1D
Entries 83
Mean −0.004412
Std Dev 0.9335

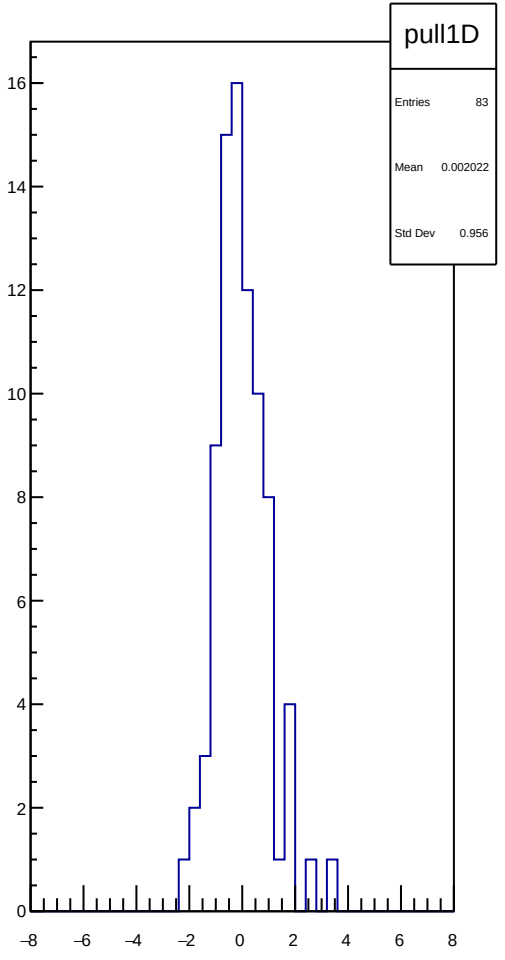

diff_bpm1i02X_rms vs run
χ² / ndf 175.5 / 82
p0 739.4 ± 0.5825
760
750
740
730
720
710

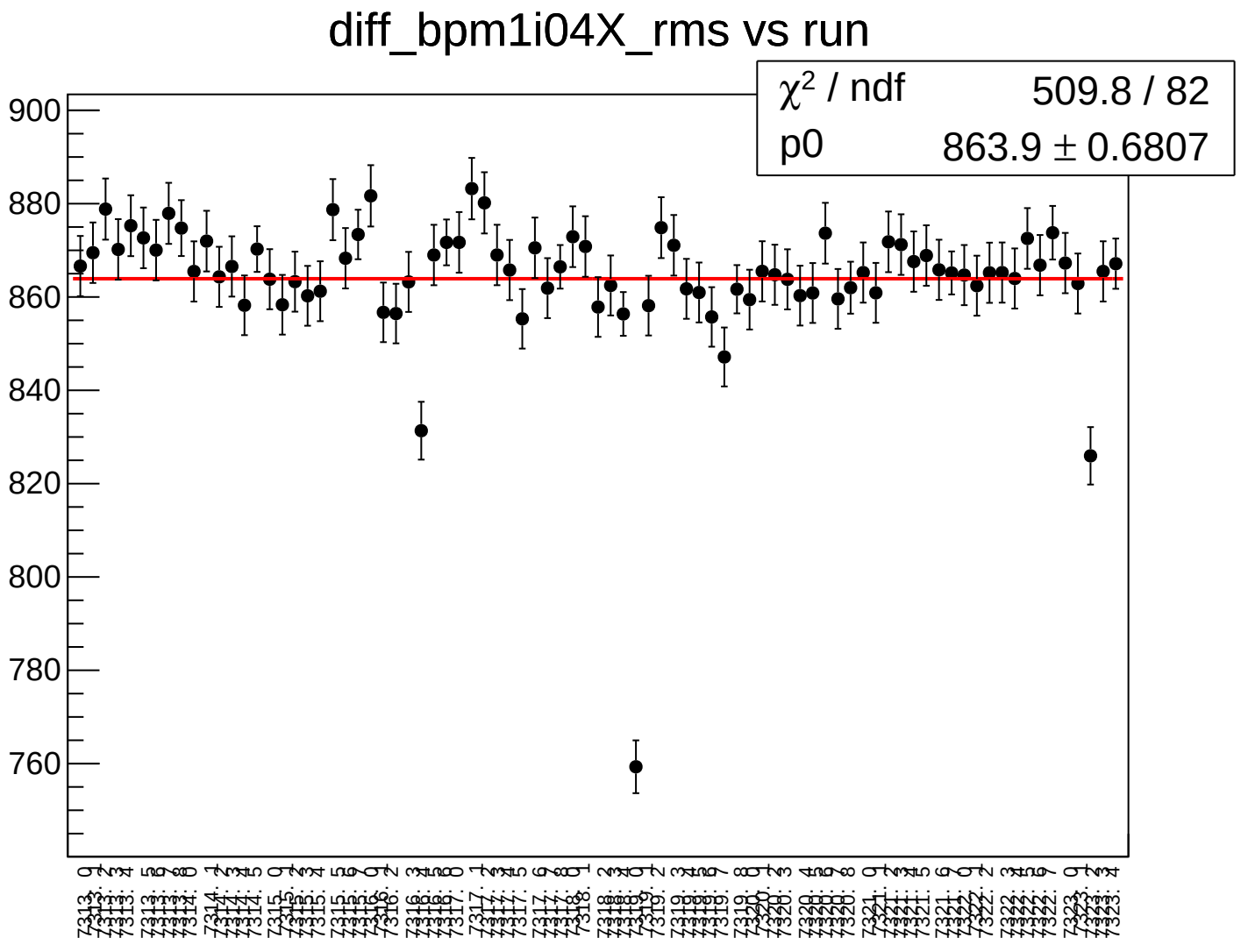

diff_bpm1i02Y_mean vs run
χ^2 / ndf 81.71 / 82
p0 60.61 ± 0.6708
pull
Entries 83
Mean −1176
Std Dev 0

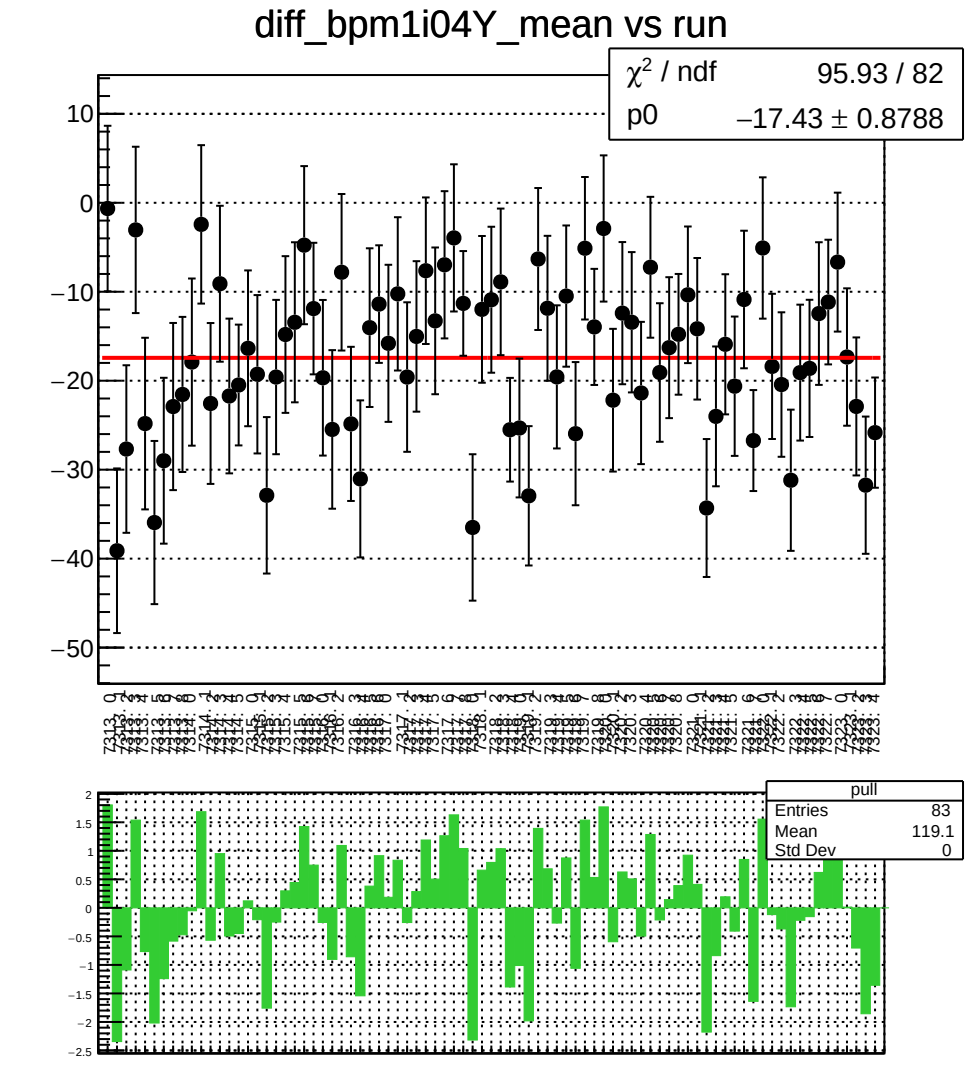

pull1D
Entries 83
Mean 0.001836
Std Dev 0.9922

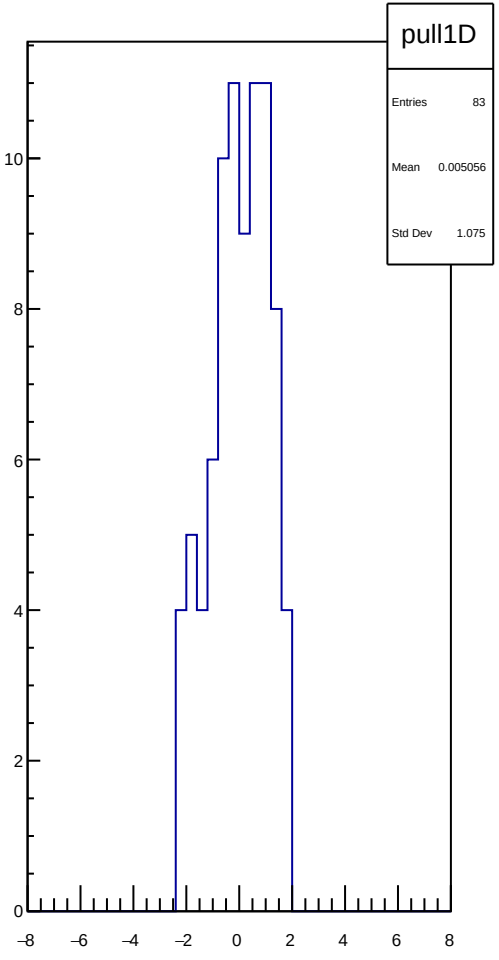

diff_bpm1i02Y_rms vs run
χ² / ndf 105 / 82
p0 602.1 ± 0.4743
620
615
610
605
600
595
590
585

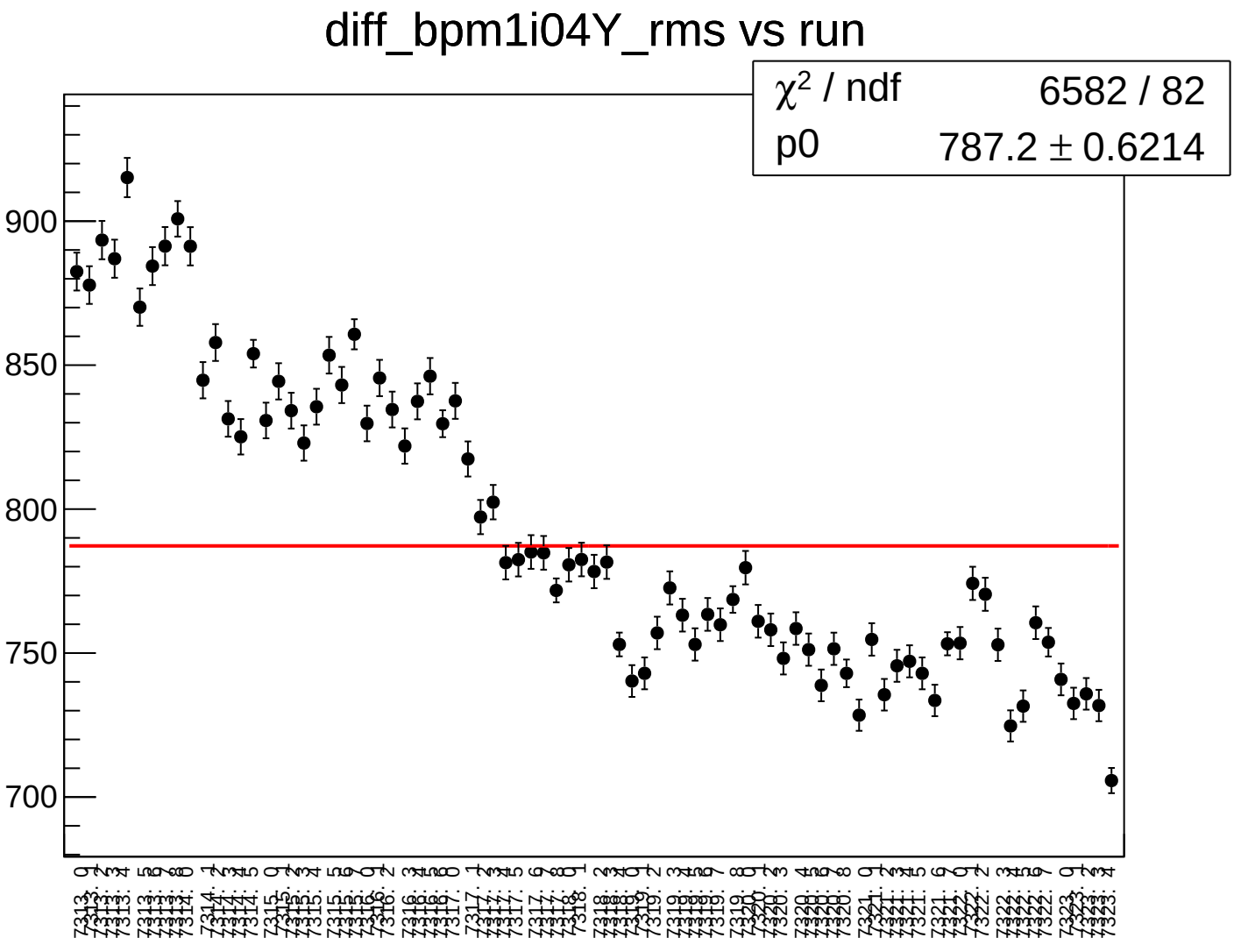

diff_bpm1i04X_mean vs run
χ^2 / ndf 75.86 / 82
p0 46.61 ± 0.9626
pull
Entries 83
Mean 801.4
Std Dev 0

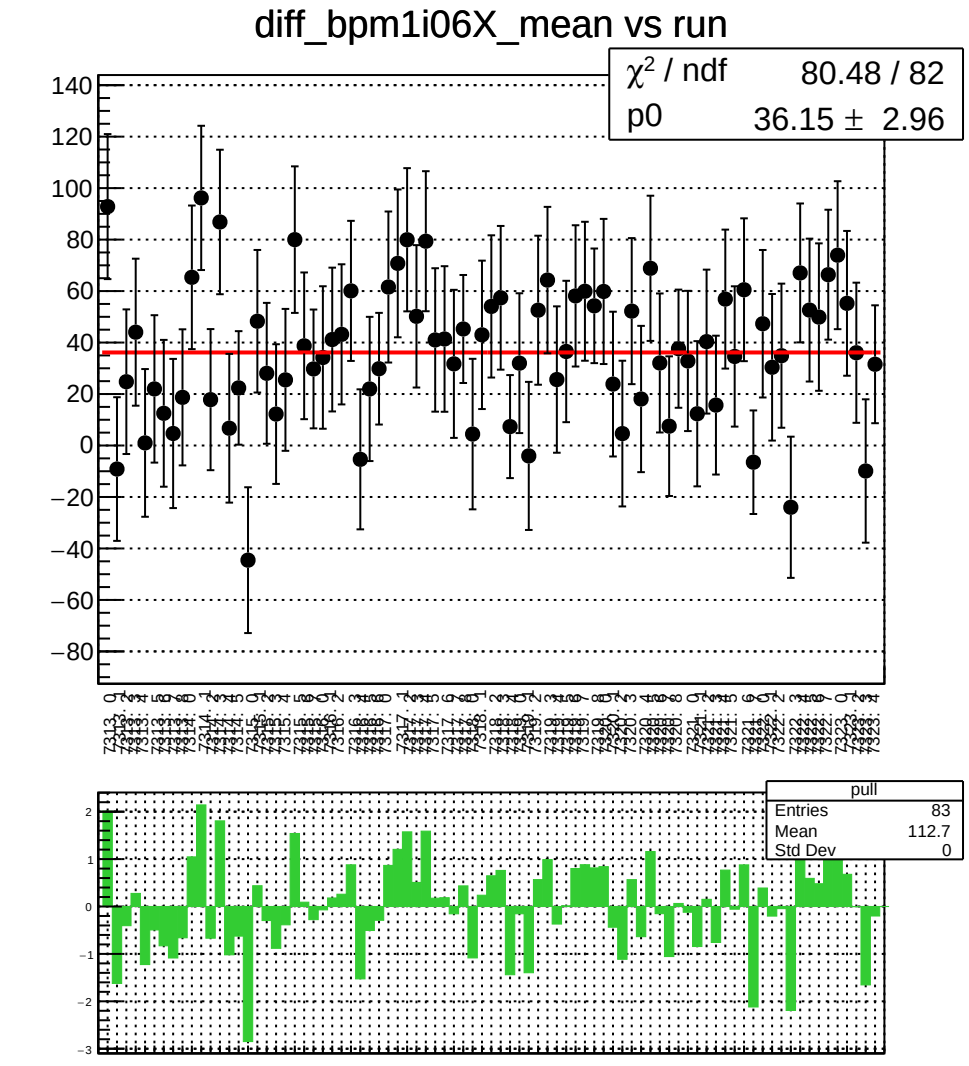

pull1D
Entries 83
Mean 0.002022
Std Dev 0.956

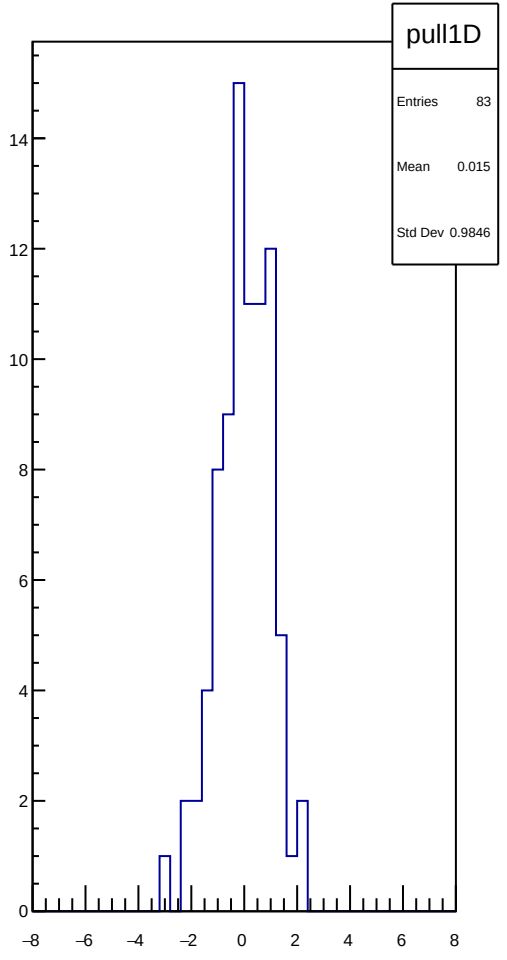

diff_bpm1i04X_rms vs run
χ² / ndf 509.8 / 82
p0 863.9 ± 0.6807
900
880
860
840
820
800
780
760

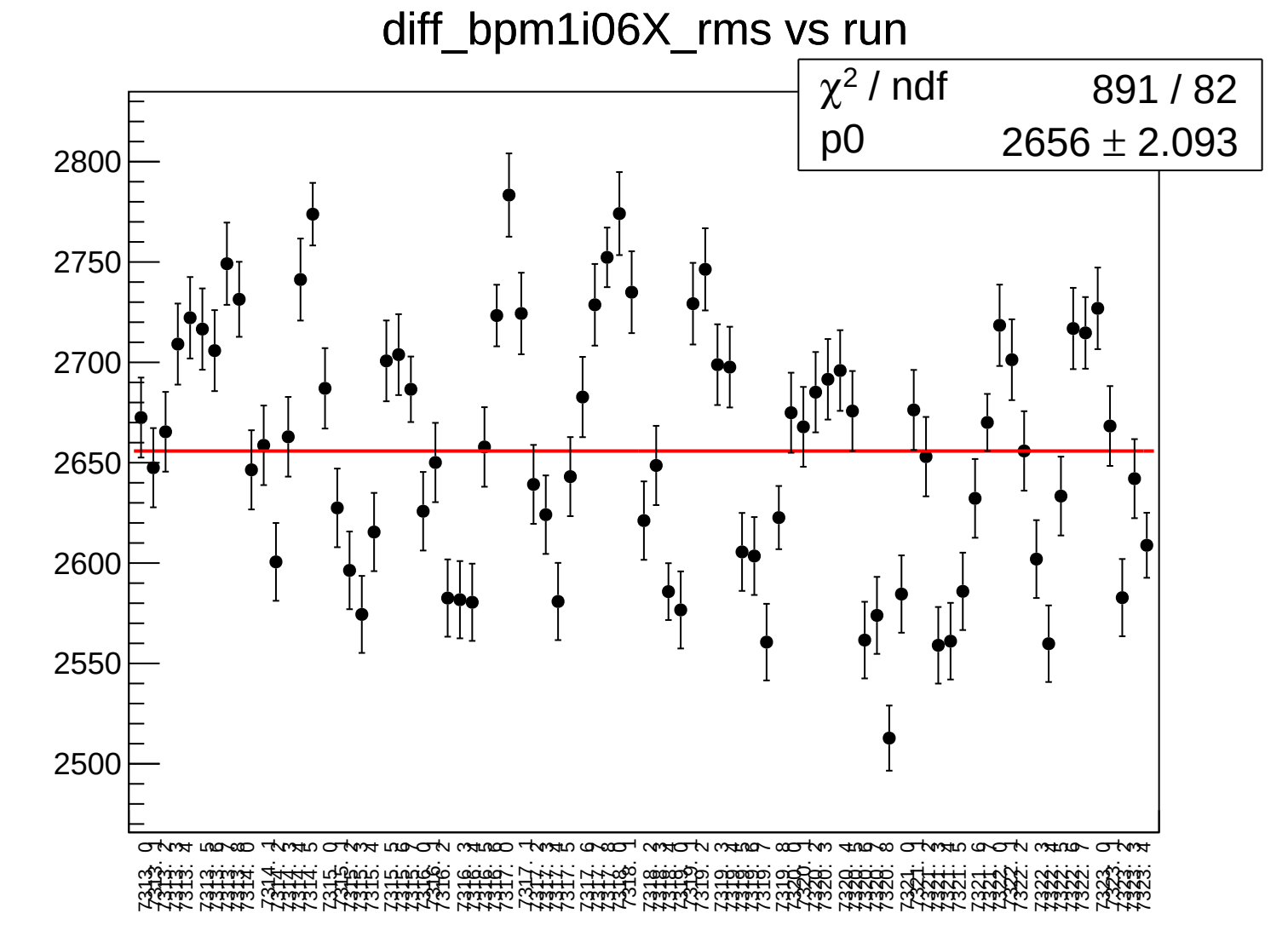

diff_bpm1i04Y_mean vs run
χ² / ndf 95.93 / 82
p0 −17.43 ± 0.8788
pull
Entries 83
Mean 119.1
Std Dev 0

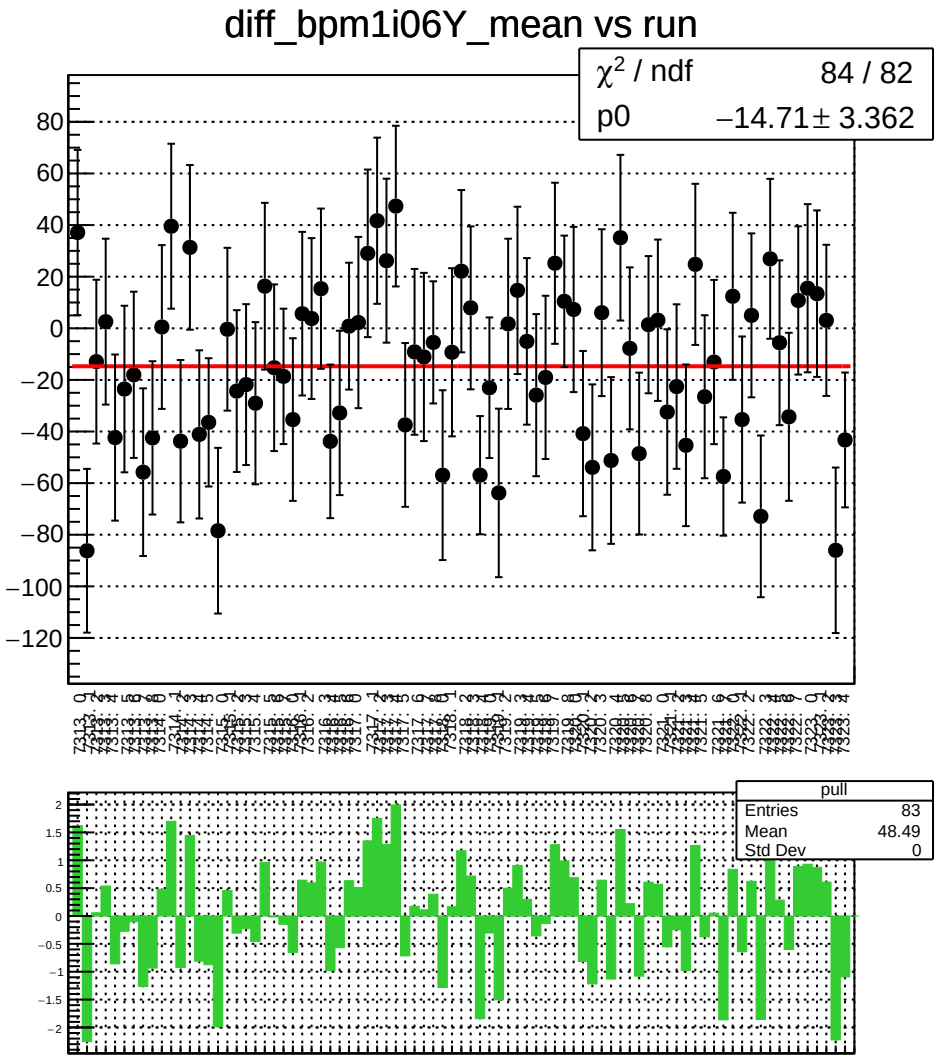

pull1D
Entries 83
Mean 0.005056
Std Dev 1.075

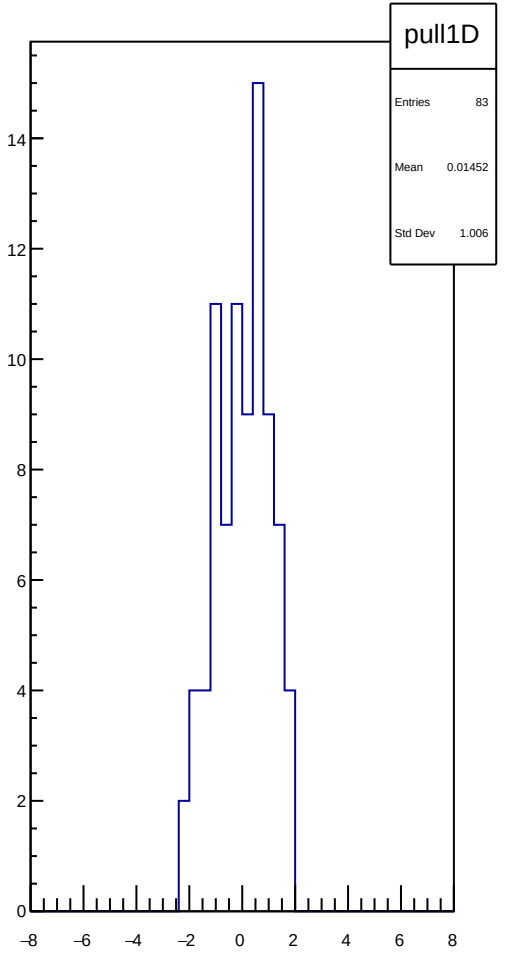

diff_bpm1i04Y_rms vs run
χ² / ndf 6582 / 82
p0 787.2 ± 0.6214
900
850
800
750
700

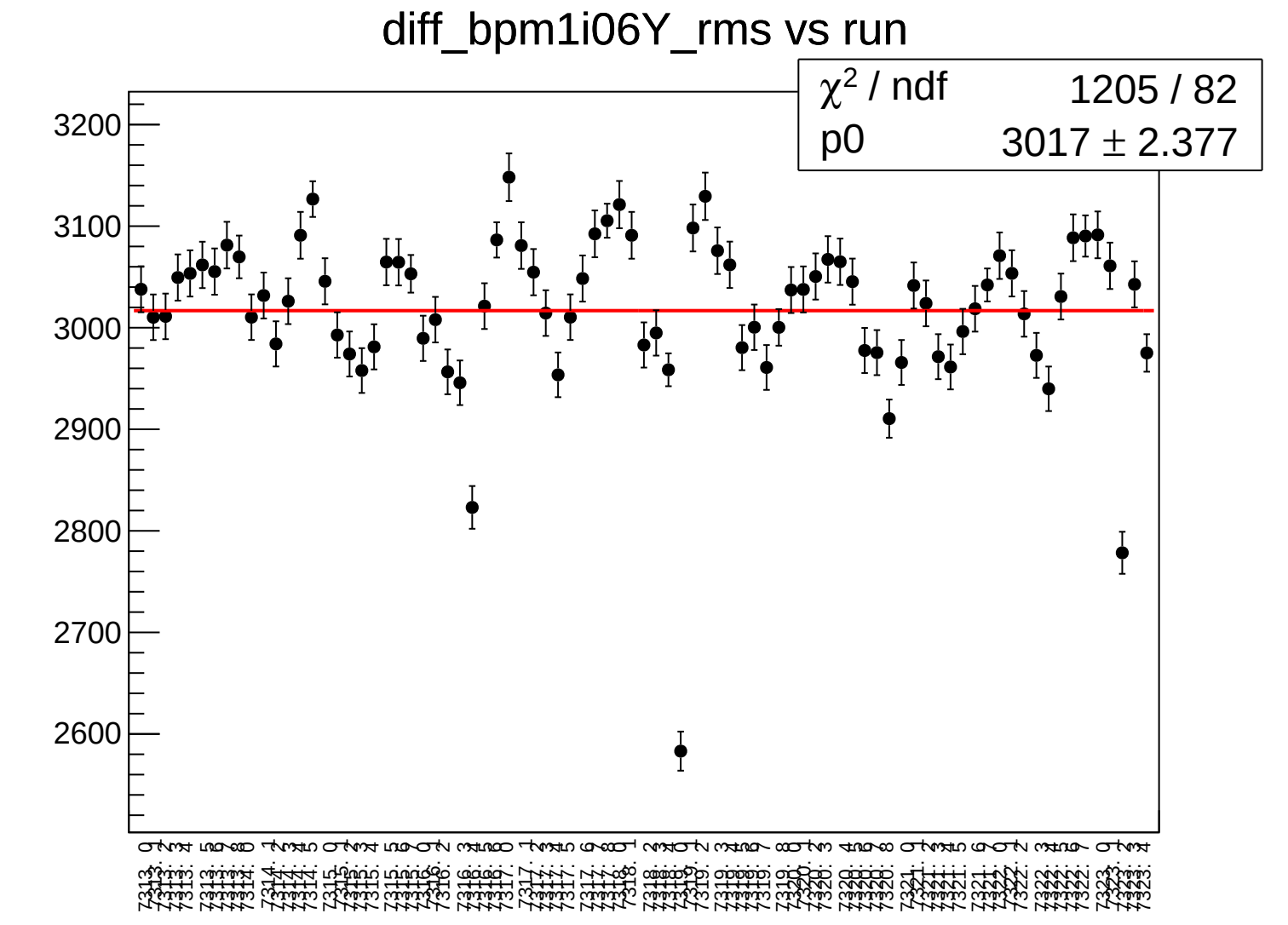

diff_bpm1i06X_mean vs run
χ² / ndf 80.48 / 82
p0 36.15 ± 2.96
pull
Entries 83
Mean 112.7
Std Dev 0

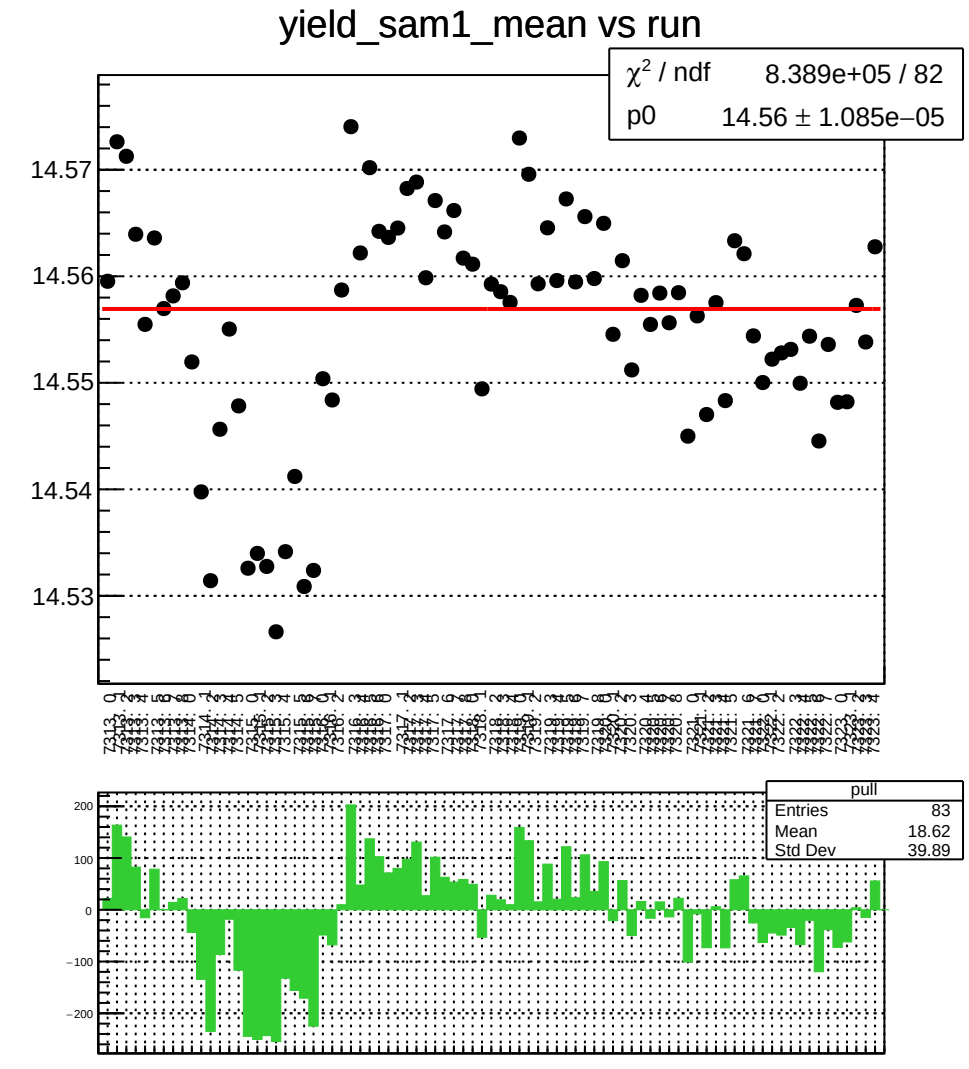

pull1D
Entries 83
Mean 0.015
Std Dev 0.9846

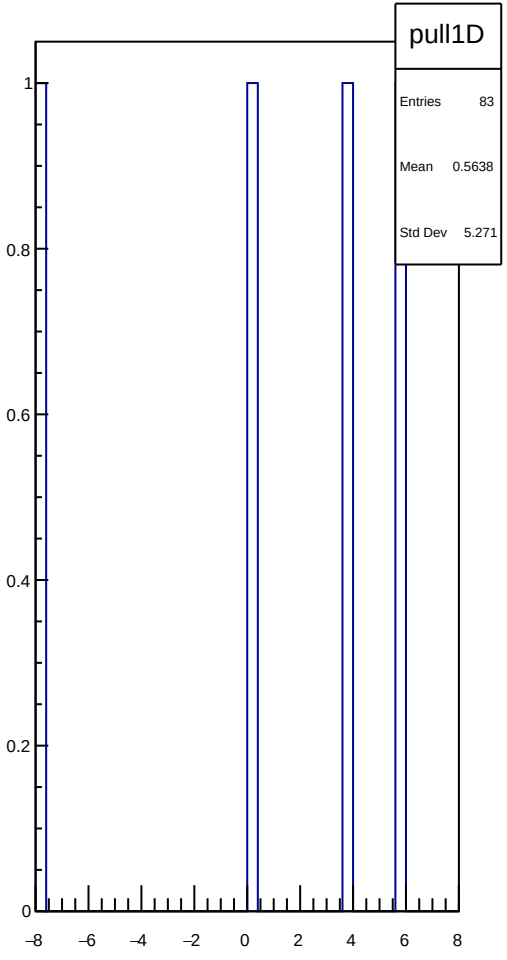

diff_bpm1i06X_rms vs run
χ^2 / ndf 891 / 82
p0 2656 ± 2.093
2800
2750
2700
2650
2600
2550
2500

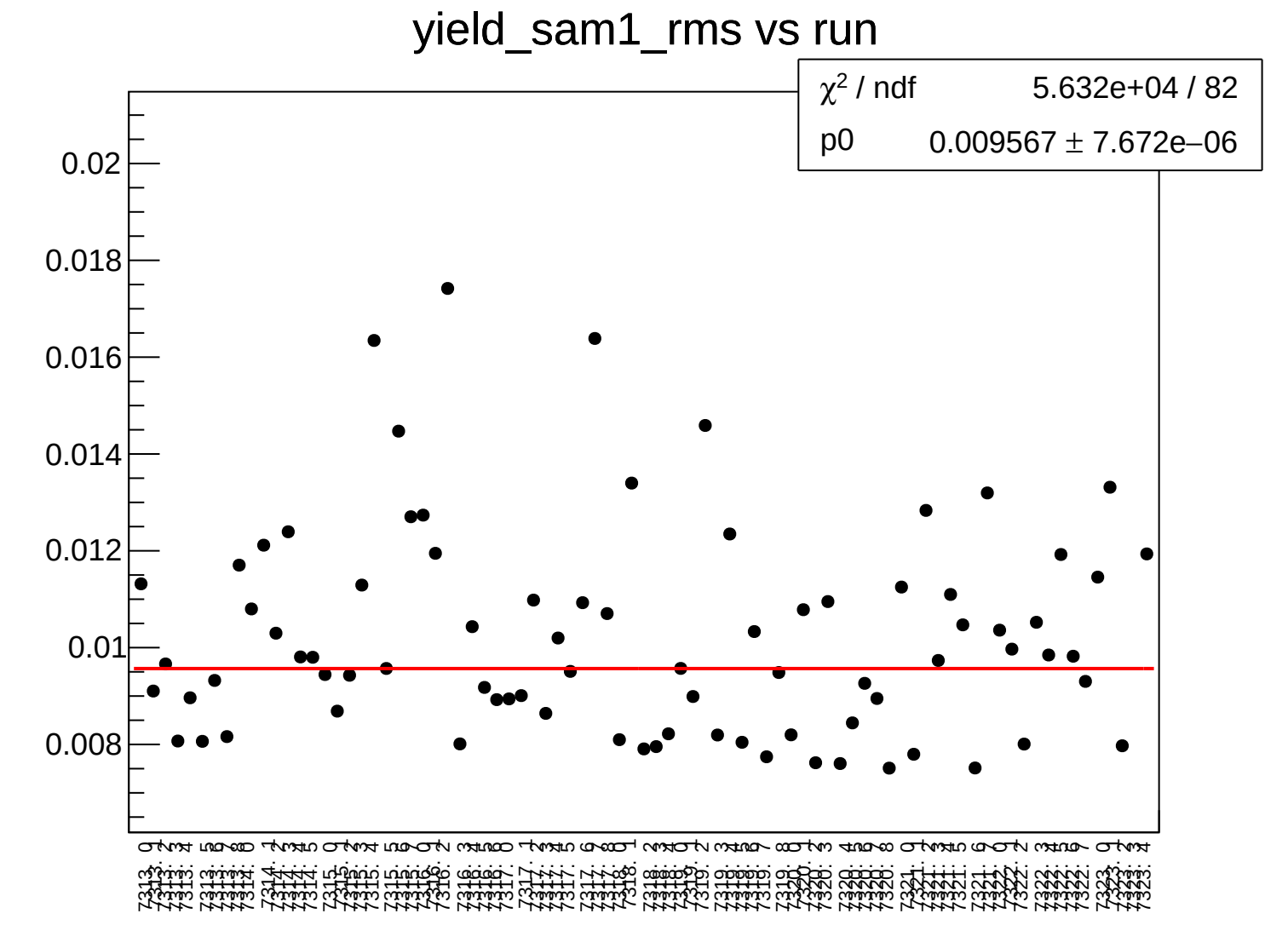

diff_bpm1i06Y_mean vs run
χ² / ndf 84 / 82
p0 −14.71± 3.362
pull
Entries 83
Mean 48.49
Std Dev 0

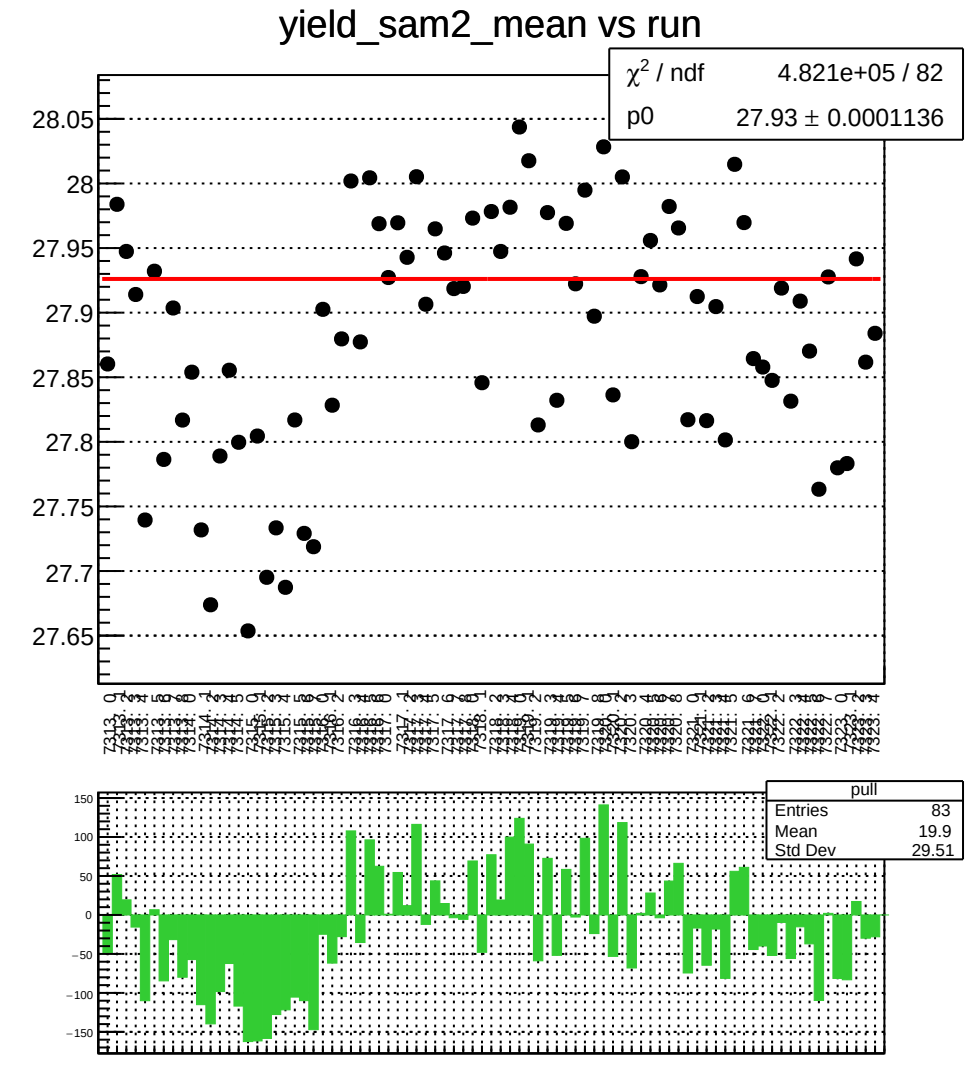

pull1D
Entries 83
Mean 0.01452
Std Dev 1.006

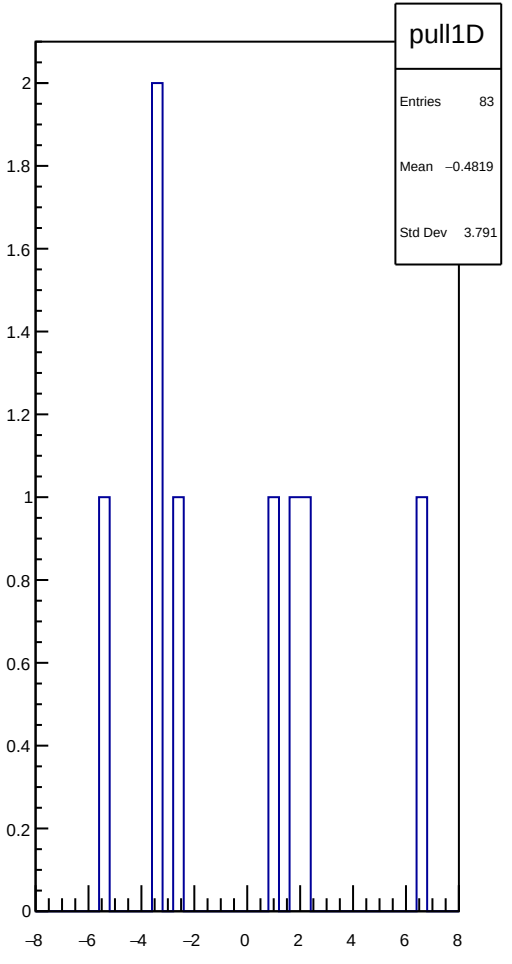

diff_bpm1i06Y_rms vs run
χ² / ndf 1205 / 82
p0 3017 ± 2.377
3200
3100
3000
2900
2800
2700
2600

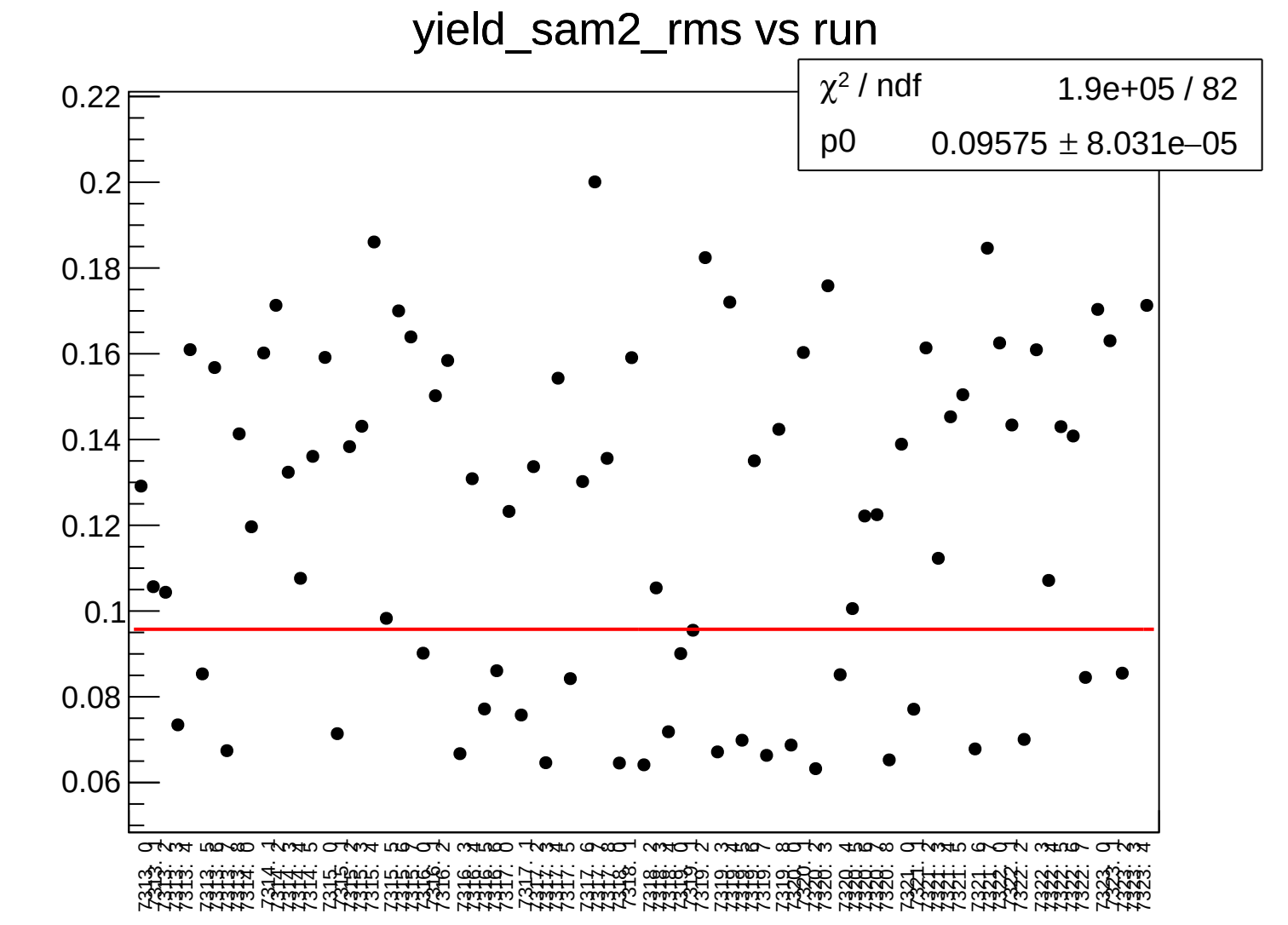

yield_sam1_mean vs run
χ² / ndf 8.389e+05 / 82
p0 14.56 ± 1.085e−05
14.57
14.56
14.55
14.54
14.53
pull
Entries 83
Mean 18.62
Std Dev 39.89
200
100
0
−100
−200

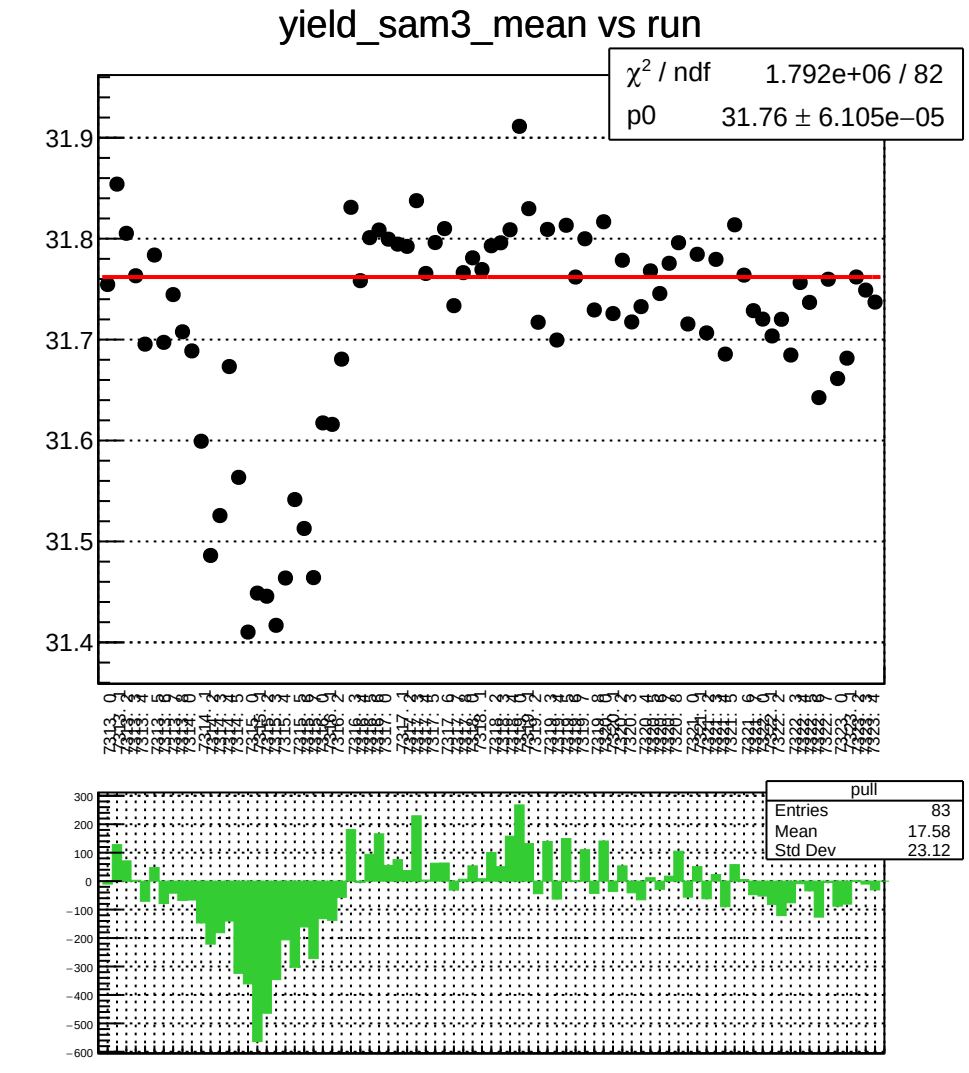

pull1D
Entries 83
Mean 0.5638
Std Dev 5.271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

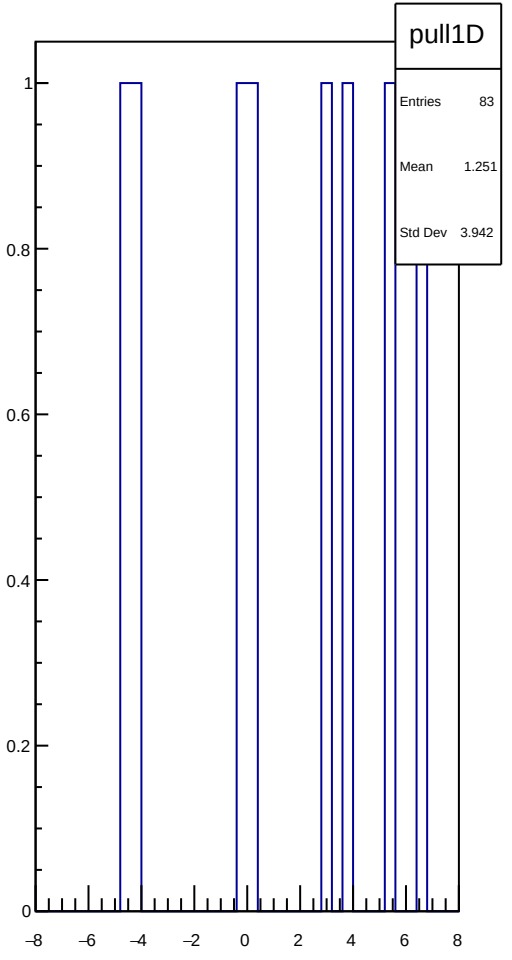

yield_sam1_rms vs run
χ^2 / ndf 5.632e+04 / 82
p0 0.009567 ± 7.672e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

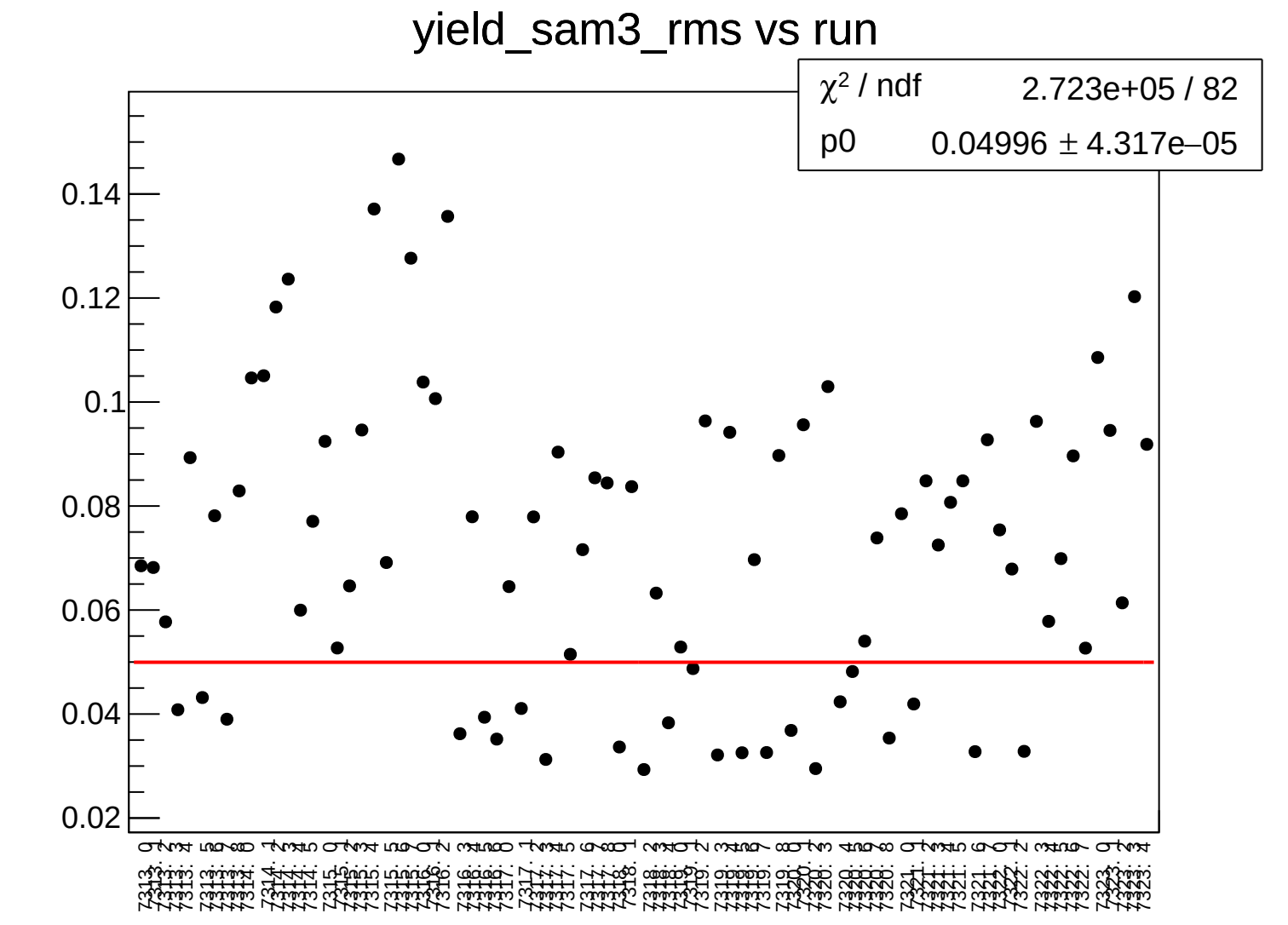

yield_sam2_mean vs run
χ² / ndf 4.821e+05 / 82
p0 27.93 ± 0.0001136
28.05
28
27.95
27.9
27.85
27.8
27.75
27.7
27.65
pull
Entries 83
Mean 19.9
Std Dev 29.51
150
100
50
0
−50
−100
−150

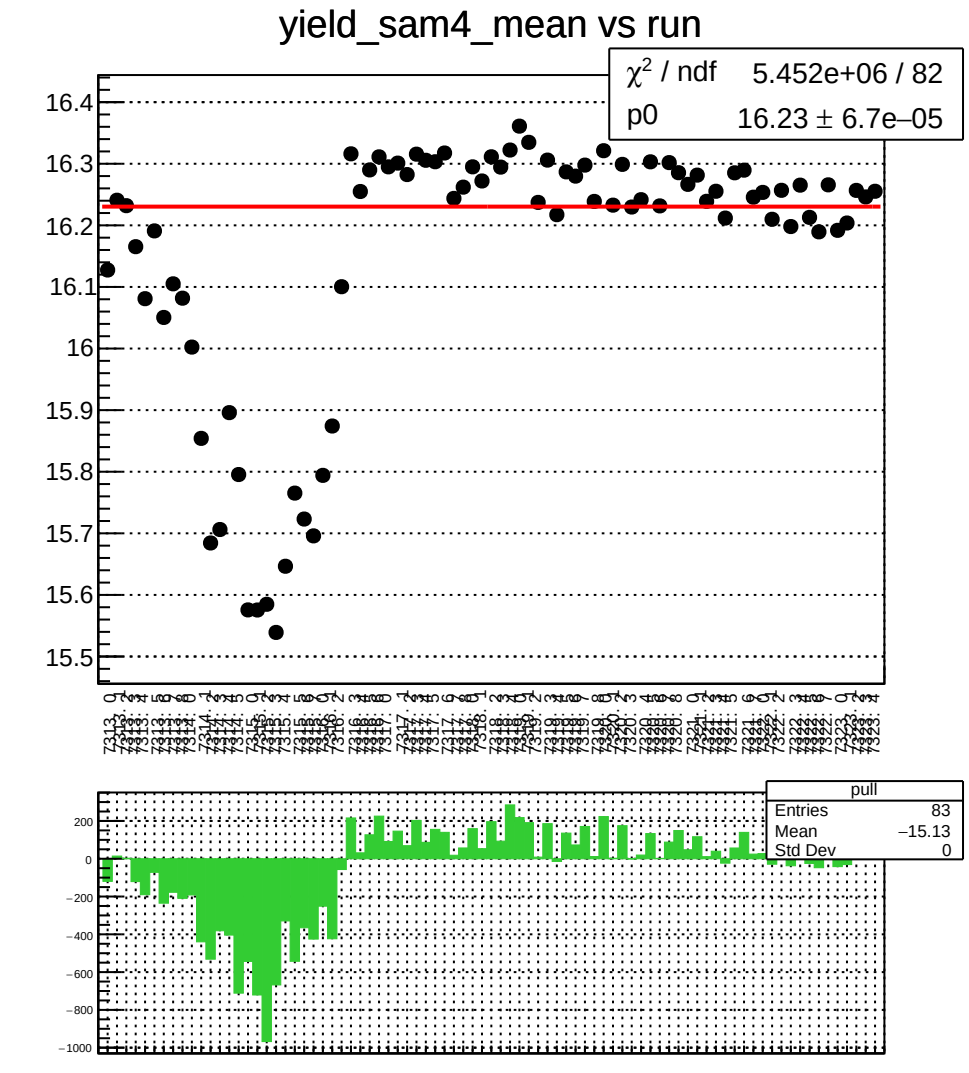

pull1D
Entries 83
Mean −0.4819
Std Dev 3.791
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

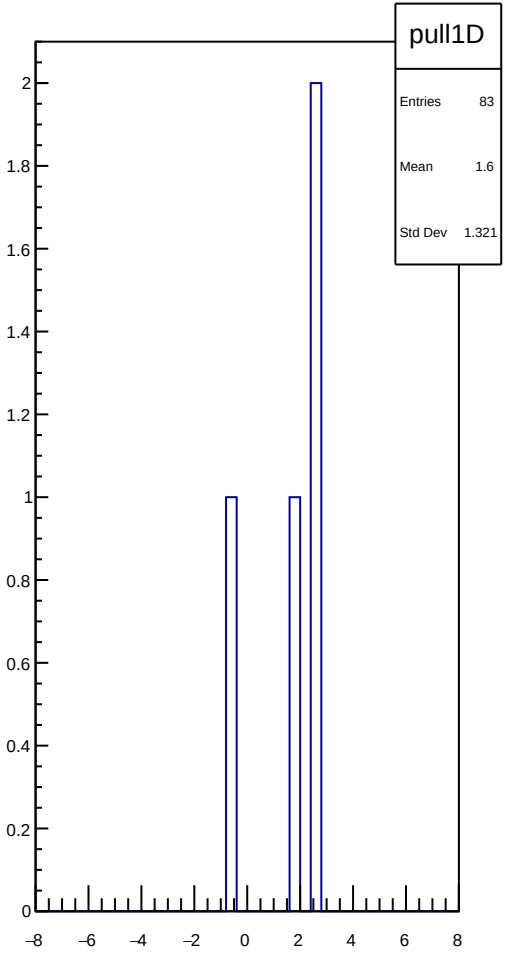

yield_sam2_rms vs run
χ² / ndf 1.9e+05 / 82
p0 0.09575 ± 8.031e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

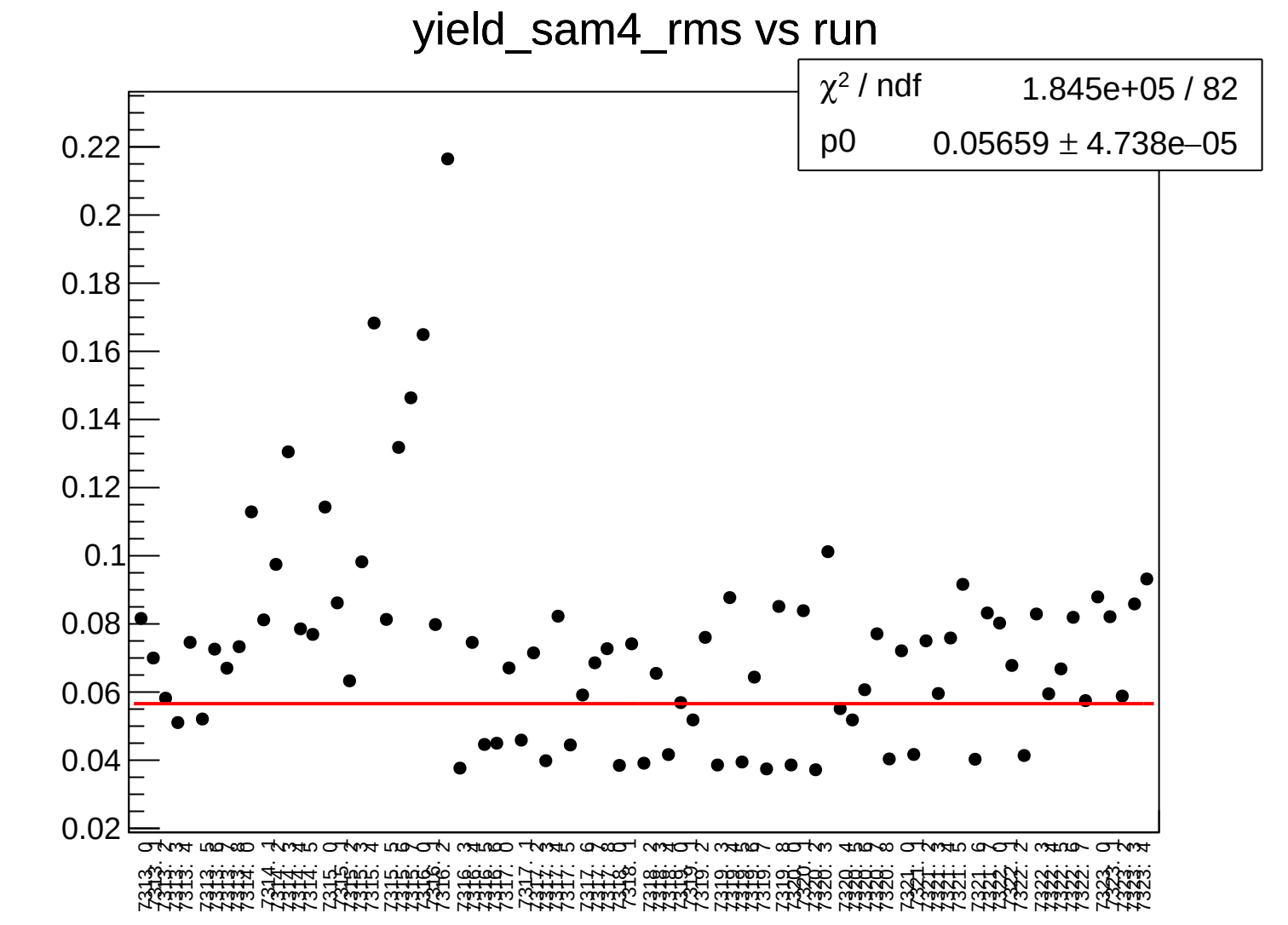

yield_sam3_mean vs run
χ² / ndf 1.792e+06 / 82
p0 31.76 ± 6.105e−05
31.9
31.8
31.7
31.6
31.5
31.4
pull
Entries 83
Mean 17.58
Std Dev 23.12
300
200
100
0
−100
−200
−300
−400
−500
−600

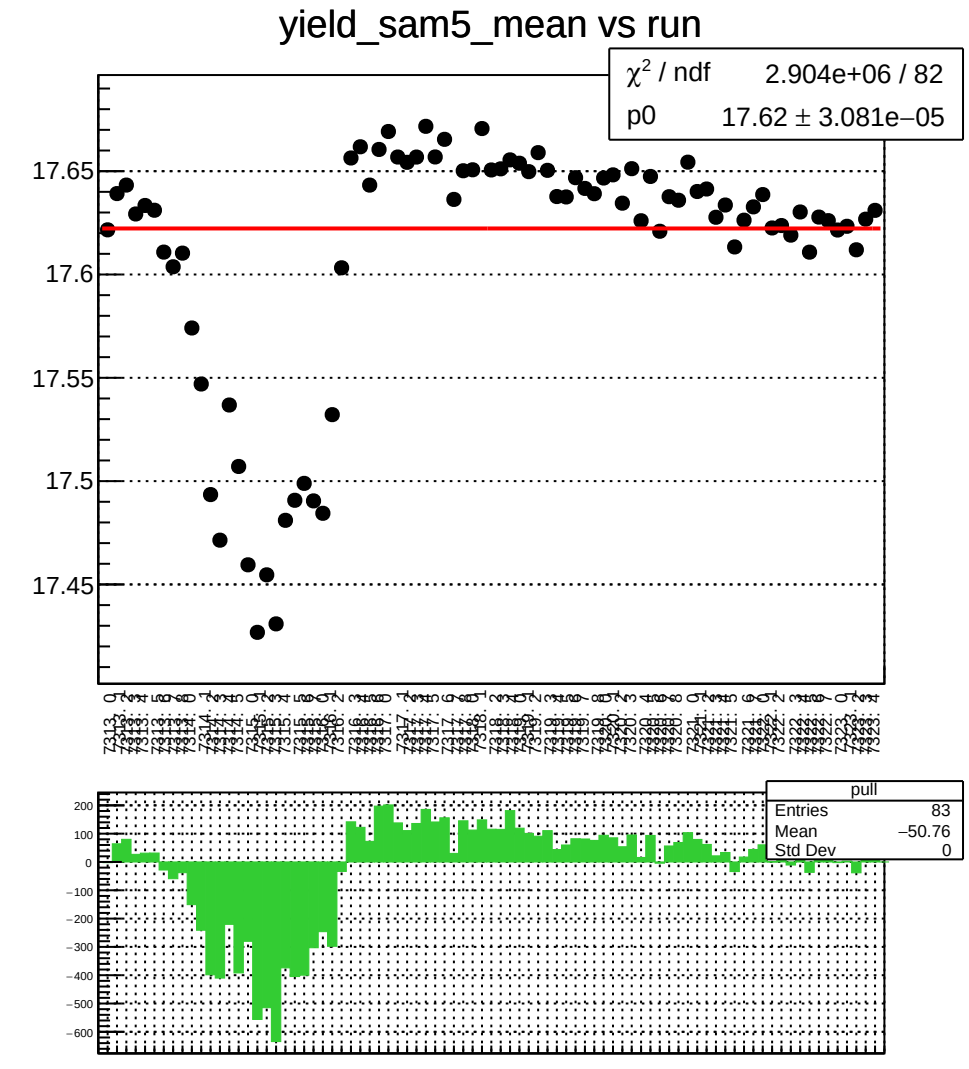

pull1D
Entries 83
Mean 1.251
Std Dev 3.942
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

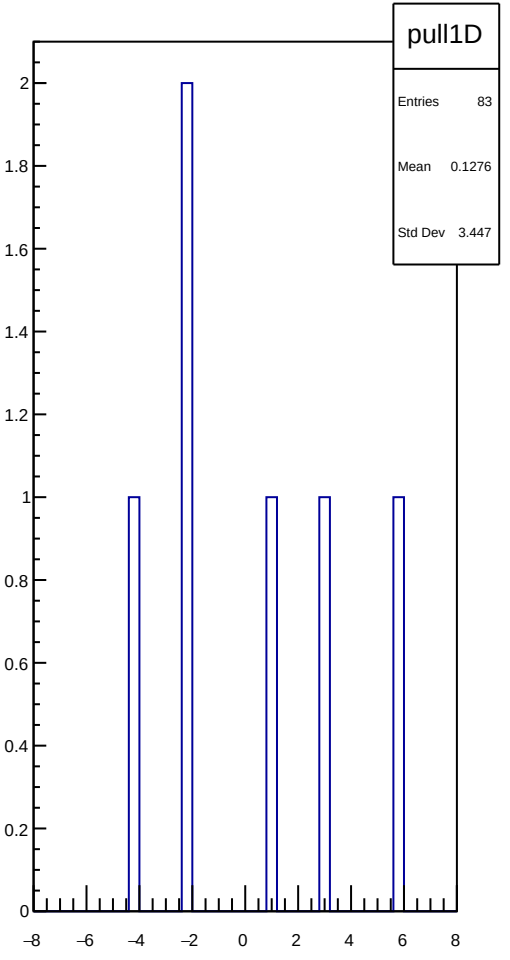

yield_sam3_rms vs run
χ² / ndf 2.723e+05 / 82
p0 0.04996 ± 4.317e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

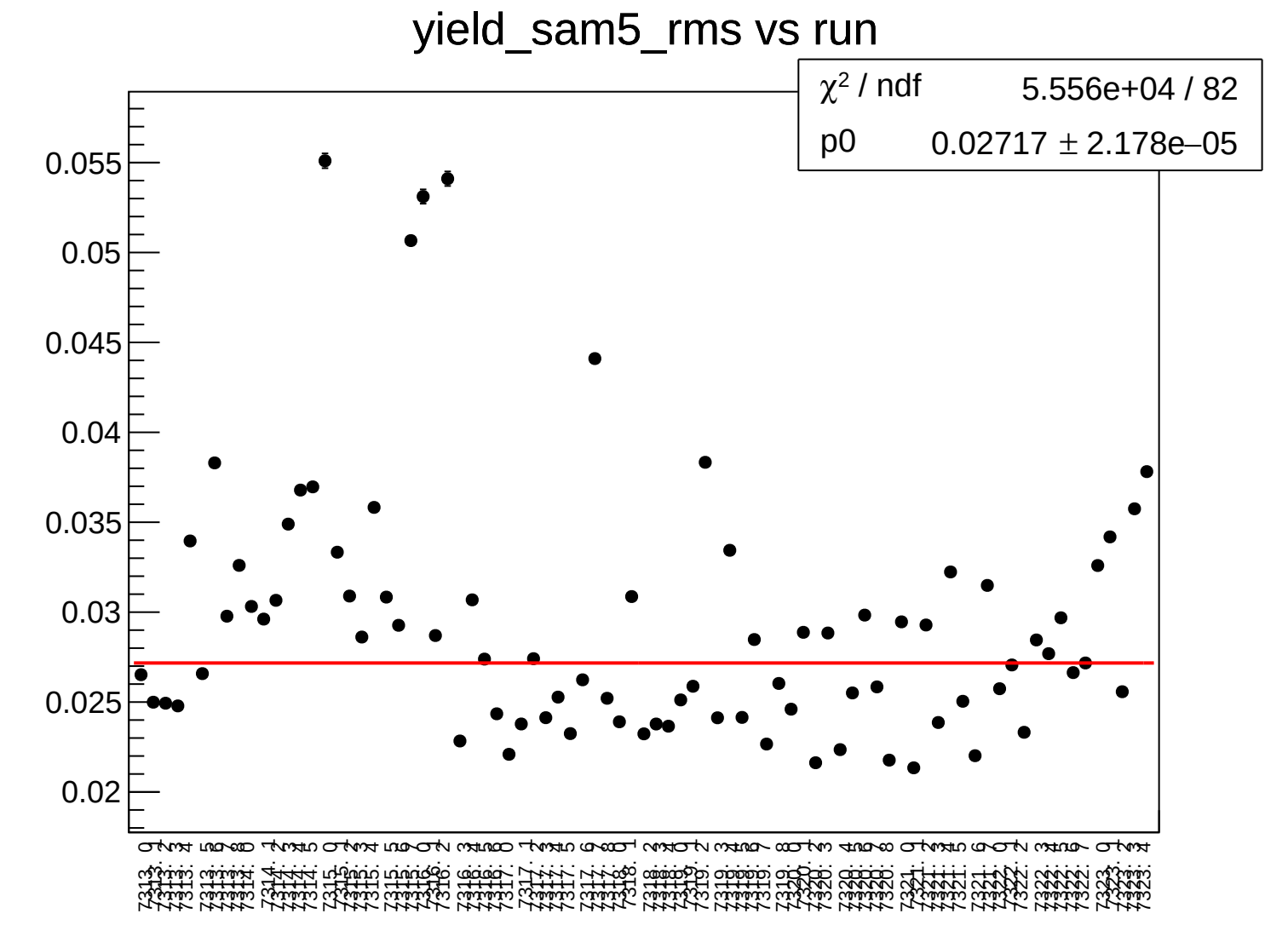

yield_sam4_mean vs run
χ² / ndf 5.452e+06 / 82
p0 16.23 ± 6.7e–05
16.4
16.3
16.2
16.1
16
15.9
15.8
15.7
15.6
15.5
pull
Entries 83
Mean –15.13
Std Dev 0
200
0
–200
–400
–600
–800
–1000

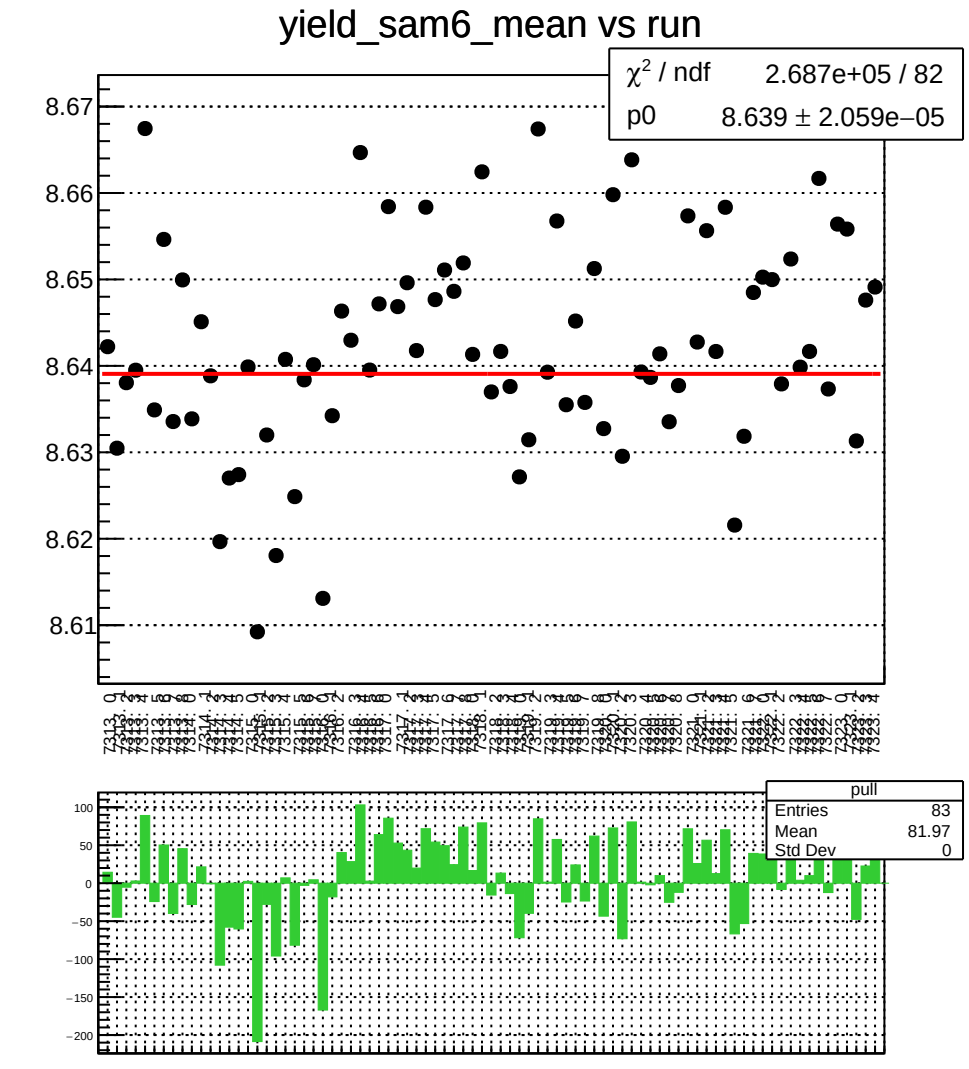

pull1D
Entries 83
Mean 1.6
Std Dev 1.321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

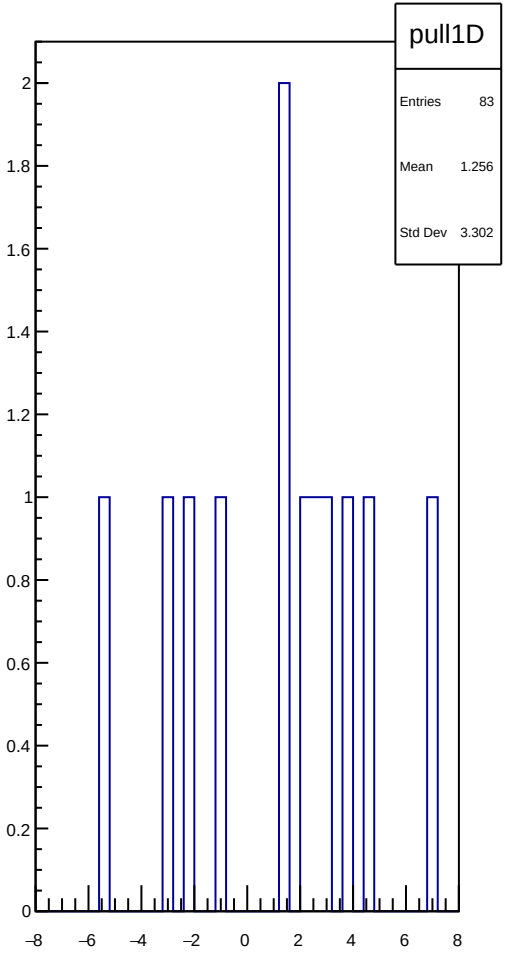

yield_sam4_rms vs run
χ² / ndf 1.845e+05 / 82
p0 0.05659 ± 4.738e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

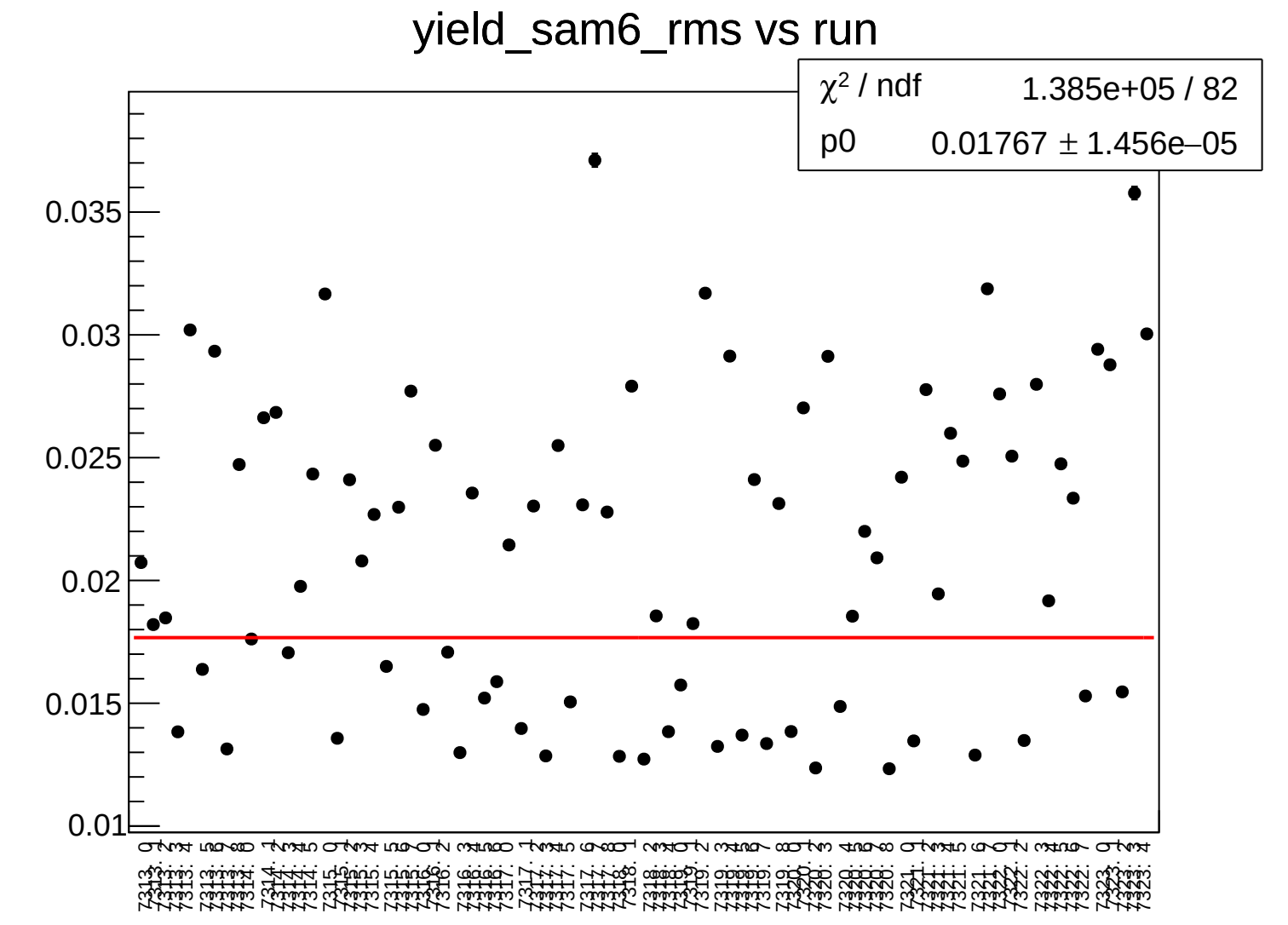

yield_sam5_mean vs run
χ² / ndf 2.904e+06 / 82
p0 17.62 ± 3.081e−05
17.65
17.6
17.55
17.5
17.45
pull
Entries 83
Mean −50.76
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

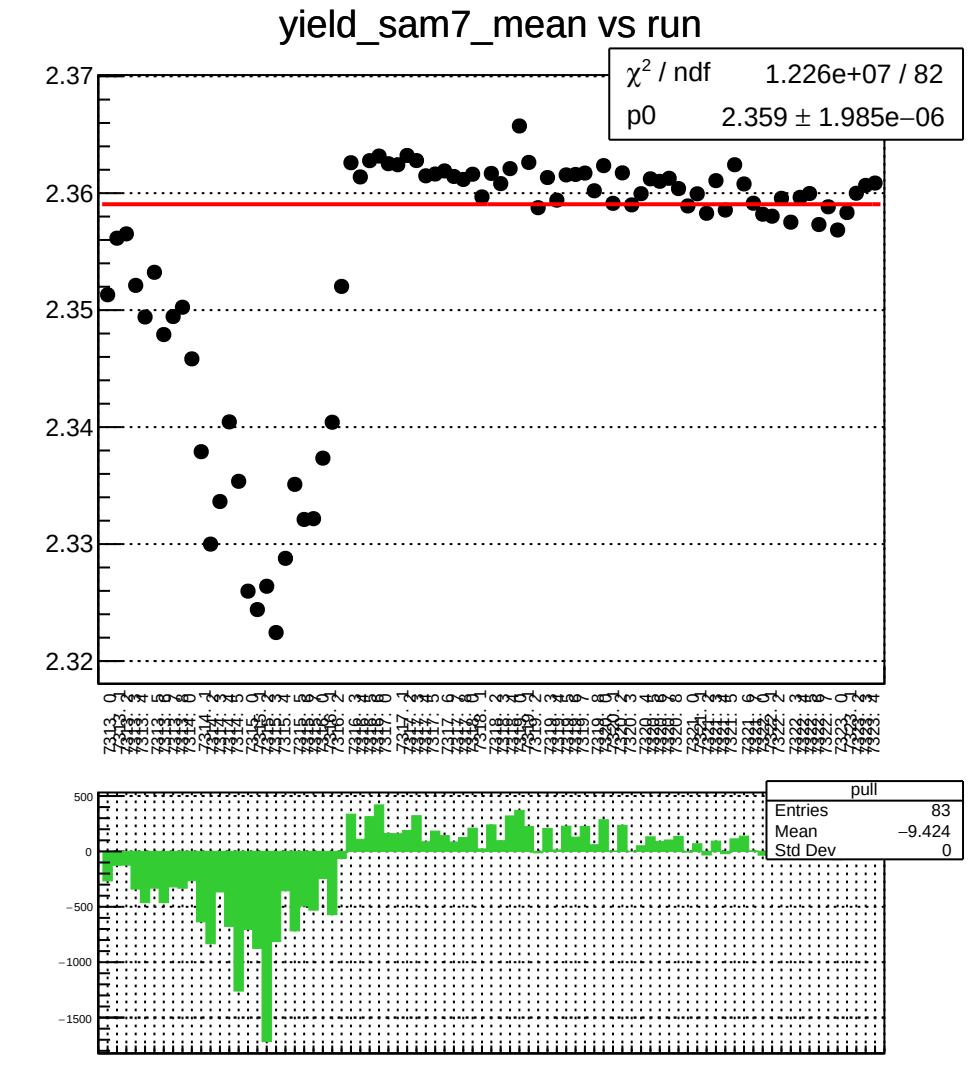

pull1D
Entries 83
Mean 0.1276
Std Dev 3.447
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

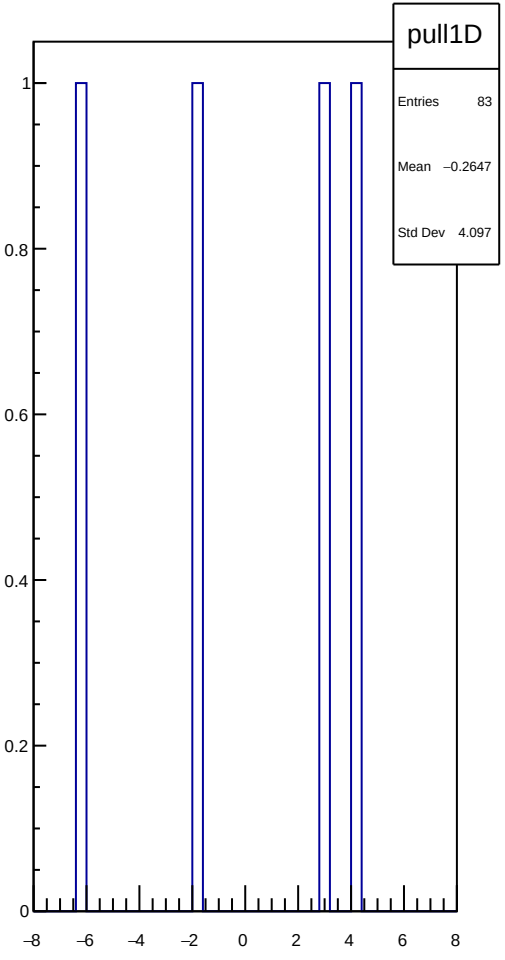

yield_sam5_rms vs run
χ² / ndf 5.556e+04 / 82
p0 0.02717 ± 2.178e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

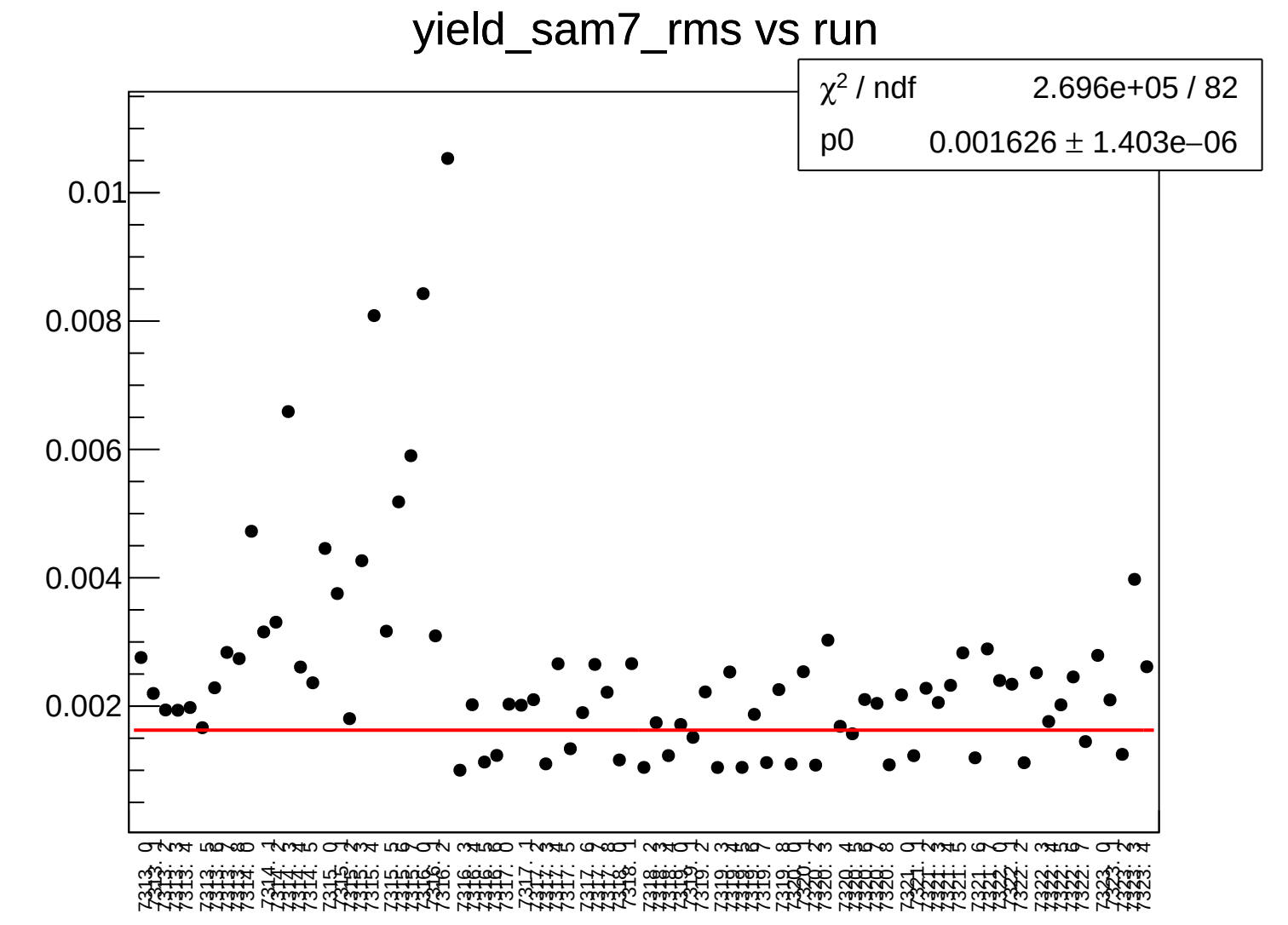

yield_sam6_mean vs run
χ² / ndf 2.687e+05 / 82
p0 8.639 ± 2.059e−05
8.67
8.66
8.65
8.64
8.63
8.62
8.61
pull
Entries 83
Mean 81.97
Std Dev 0
100
50
0
−50
−100
−150
−200

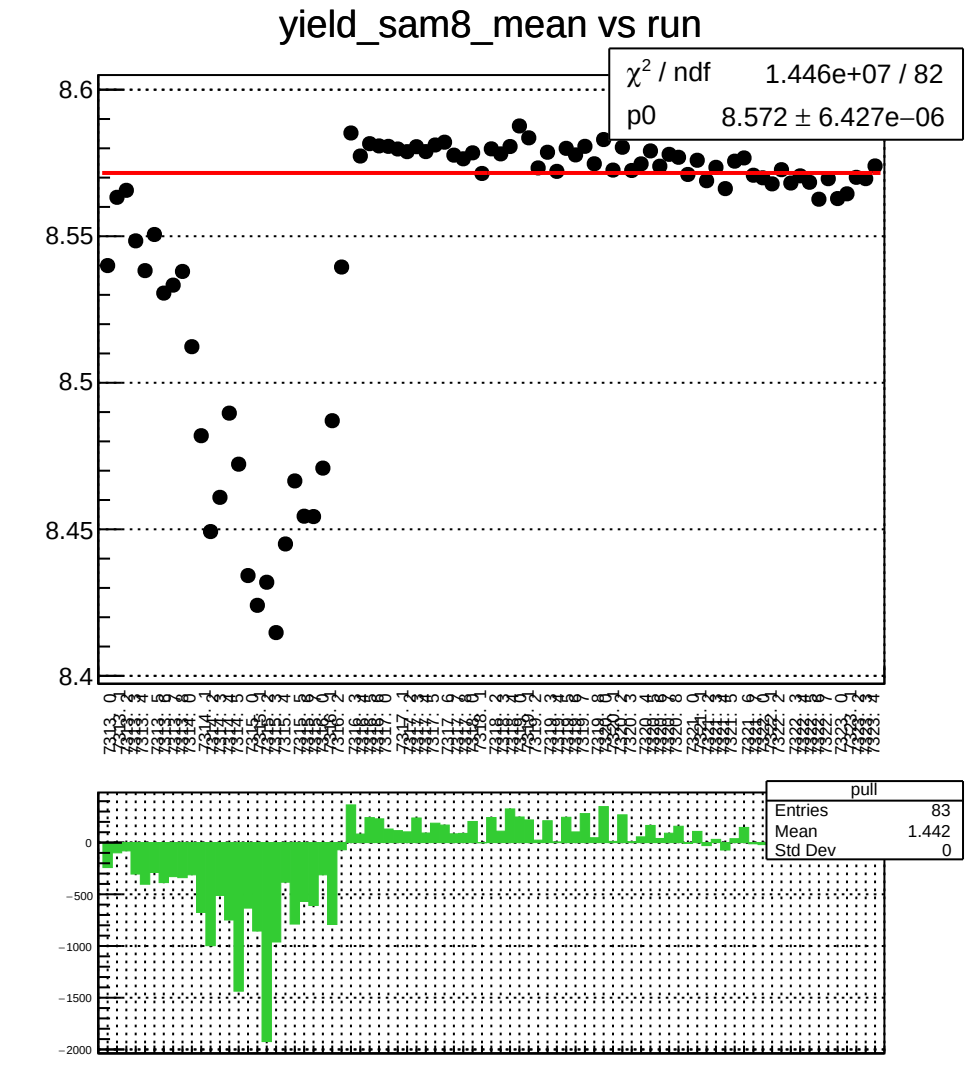

pull1D
Entries 83
Mean 1.256
Std Dev 3.302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

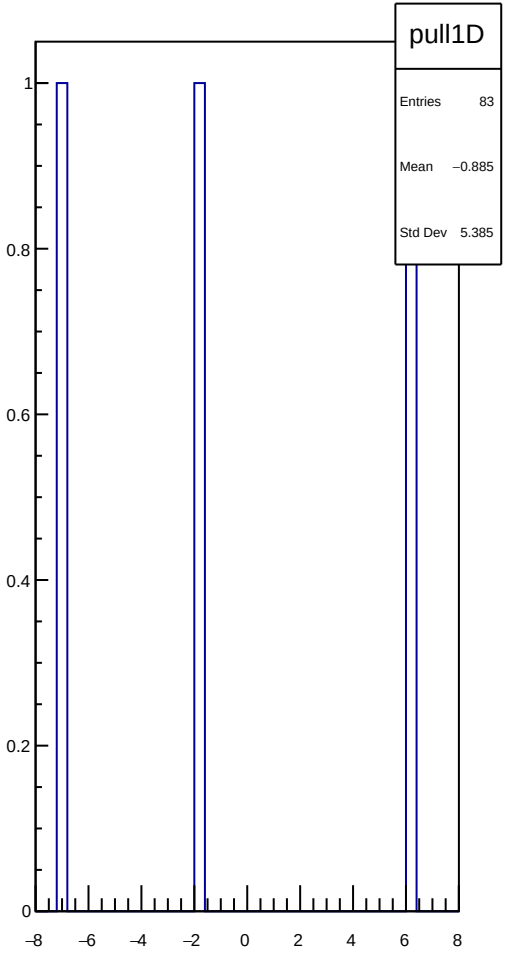

yield_sam6_rms vs run
χ² / ndf 1.385e+05 / 82
p0 0.01767 ± 1.456e−05
0.035
0.03
0.025
0.02
0.015
0.01

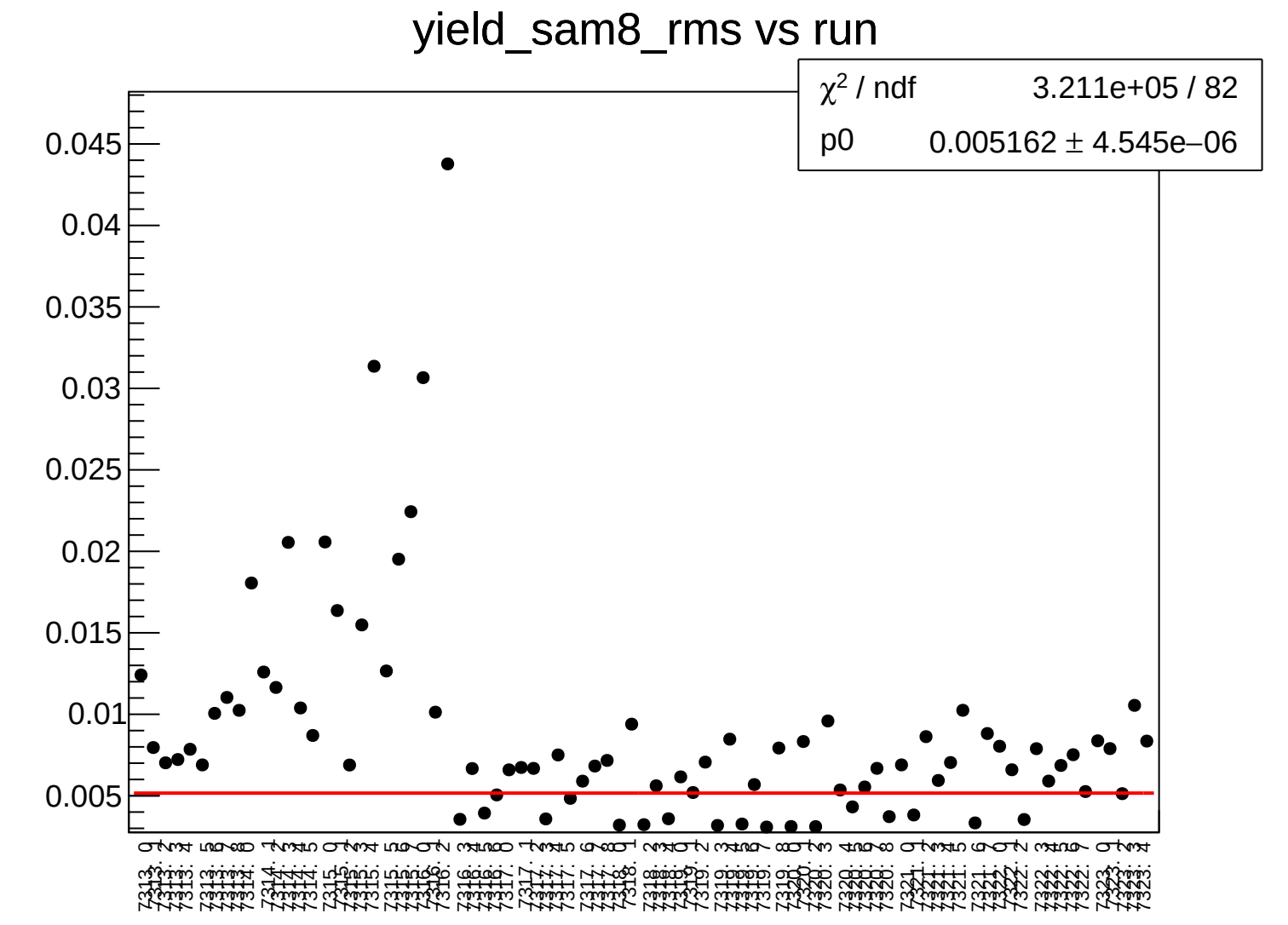

yield_sam7_mean vs run
χ² / ndf 1.226e+07 / 82
p0 2.359 ± 1.985e−06
2.37
2.36
2.35
2.34
2.33
2.32
pull
Entries 83
Mean −9.424
Std Dev 0
500
0
−500
−1000
−1500

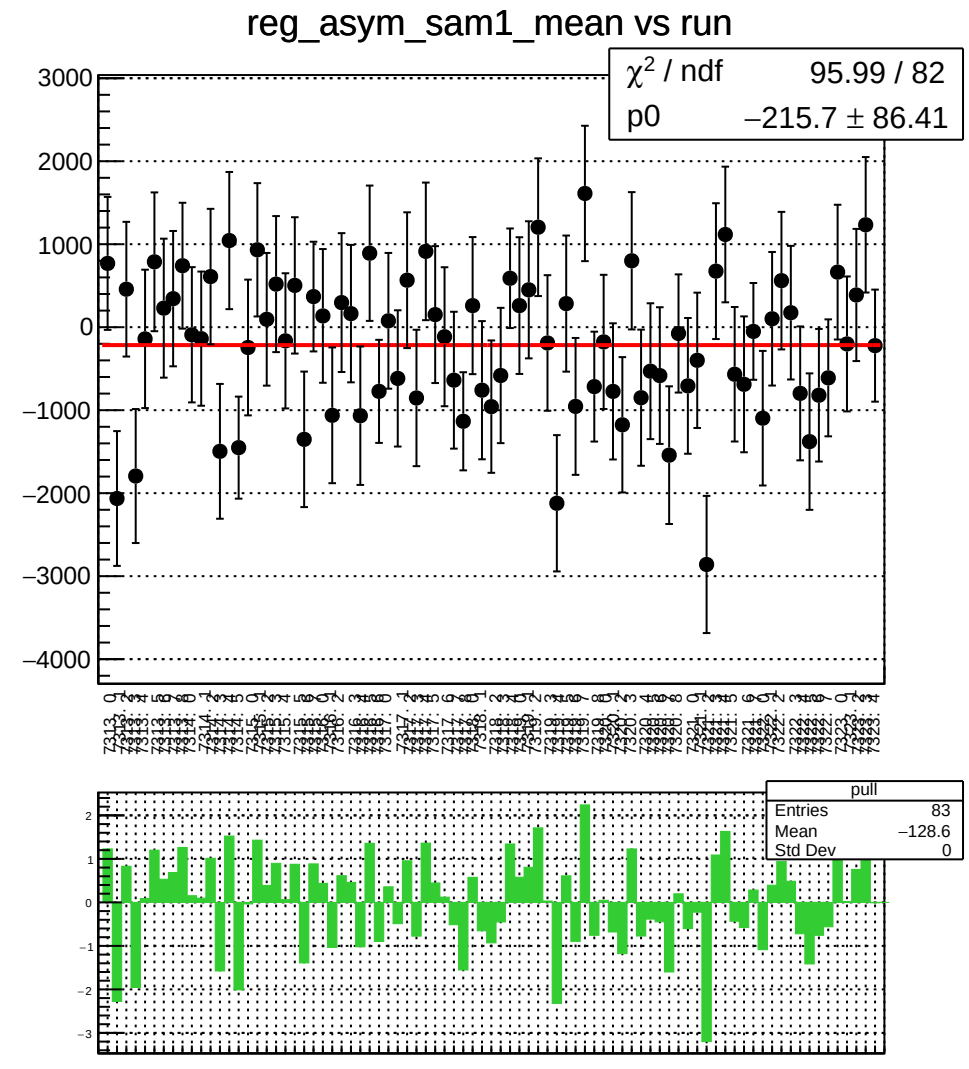

pull1D
Entries 83
Mean −0.2647
Std Dev 4.097
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

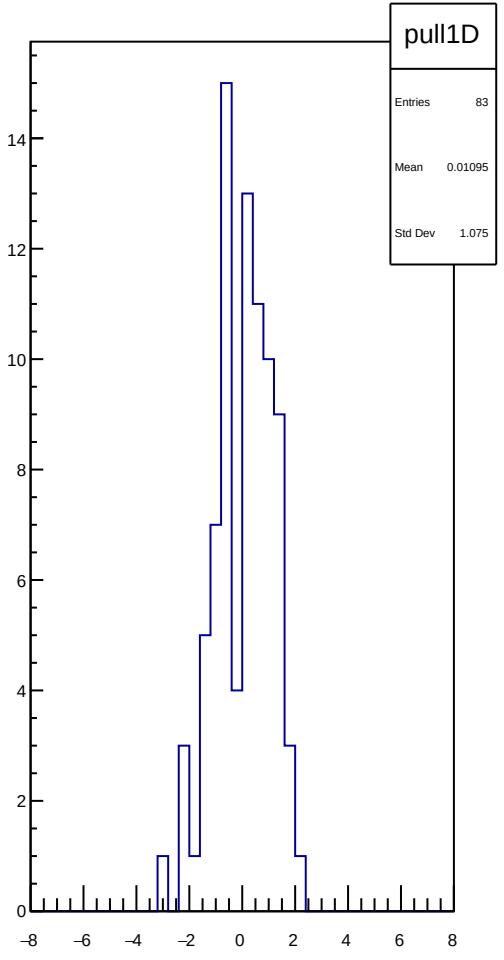

yield_sam7_rms vs run
χ^2 / ndf 2.696e+05 / 82
p0 0.001626 ± 1.403e−06
0.01
0.008
0.006
0.004
0.002

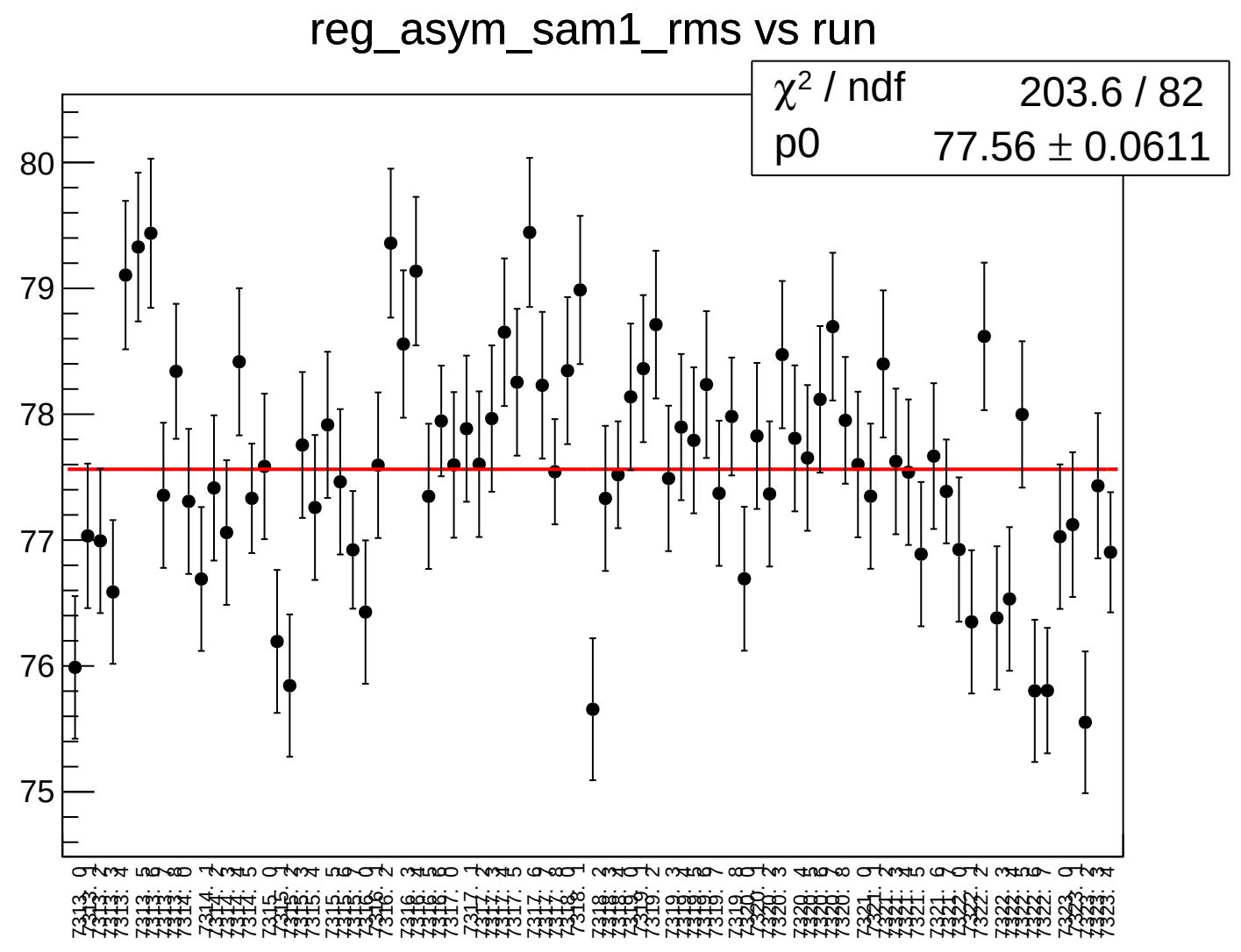

yield_sam8_mean vs run
χ² / ndf 1.446e+07 / 82
p0 8.572 ± 6.427e−06
8.6
8.55
8.5
8.45
8.4
pull
Entries 83
Mean 1.442
Std Dev 0
0
−500
−1000
−1500
−2000

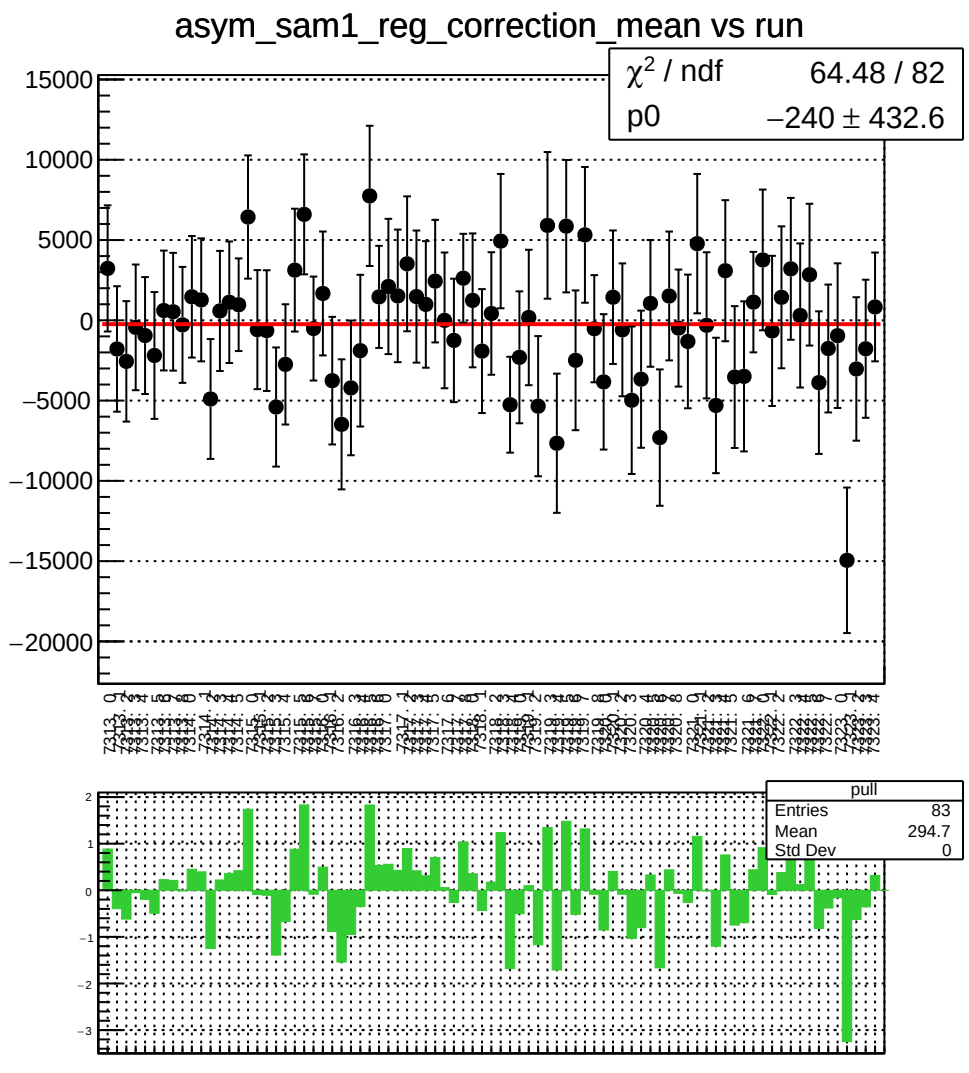

pull1D
Entries 83
Mean −0.885
Std Dev 5.385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

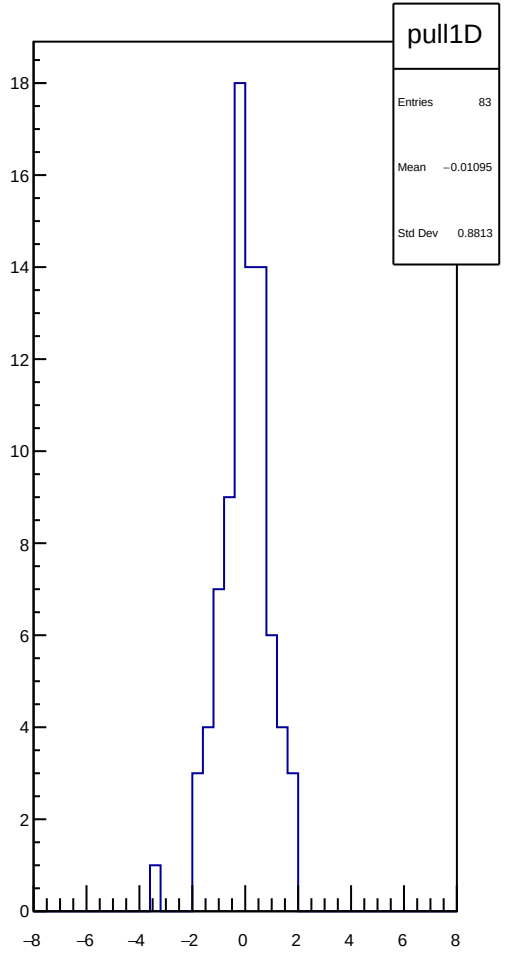

yield_sam8_rms vs run
χ² / ndf 3.211e+05 / 82
p0 0.005162 ± 4.545e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

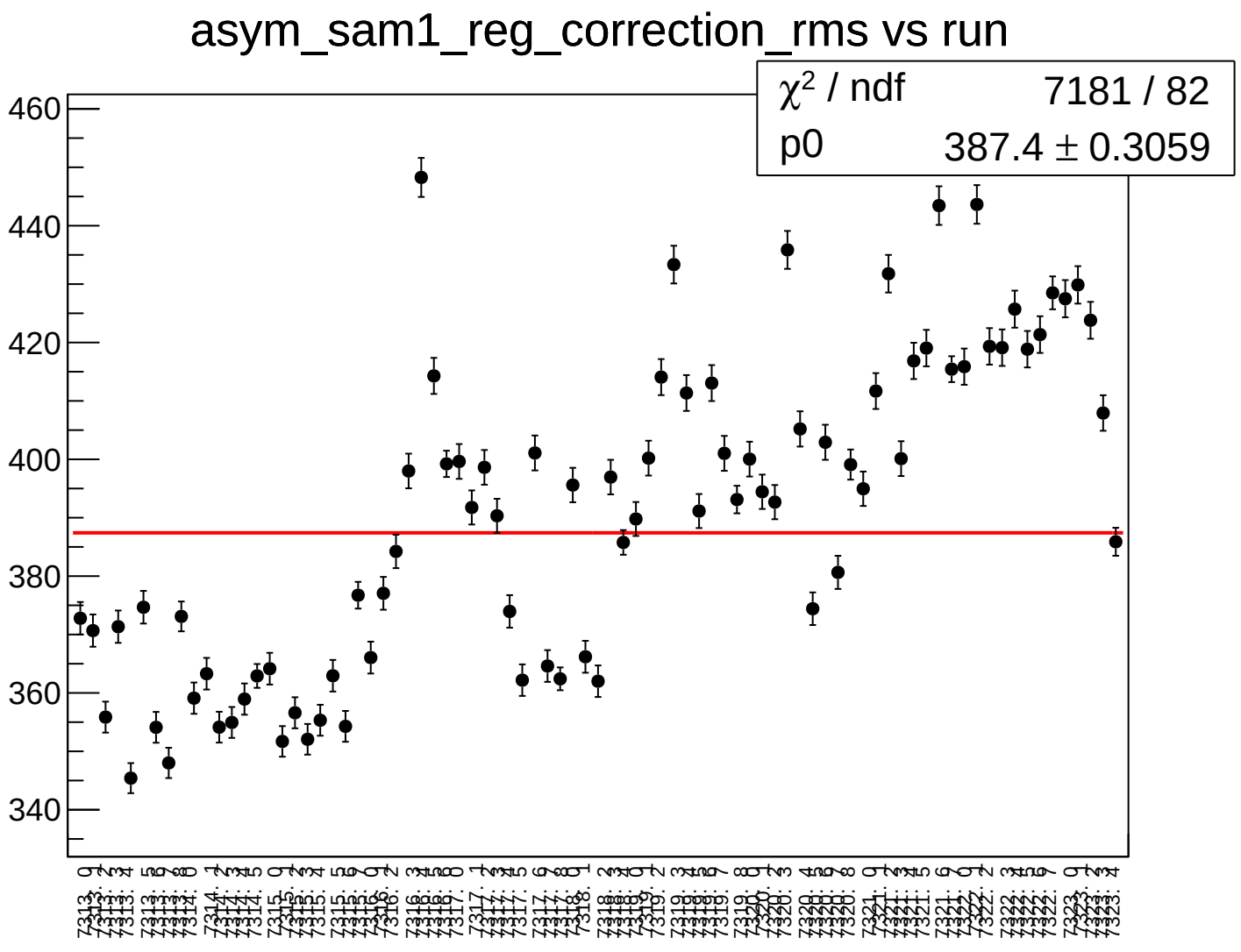

reg_asym_sam1_mean vs run
χ² / ndf 95.99 / 82
p0 −215.7 ± 86.41
pull
Entries 83
Mean −128.6
Std Dev 0

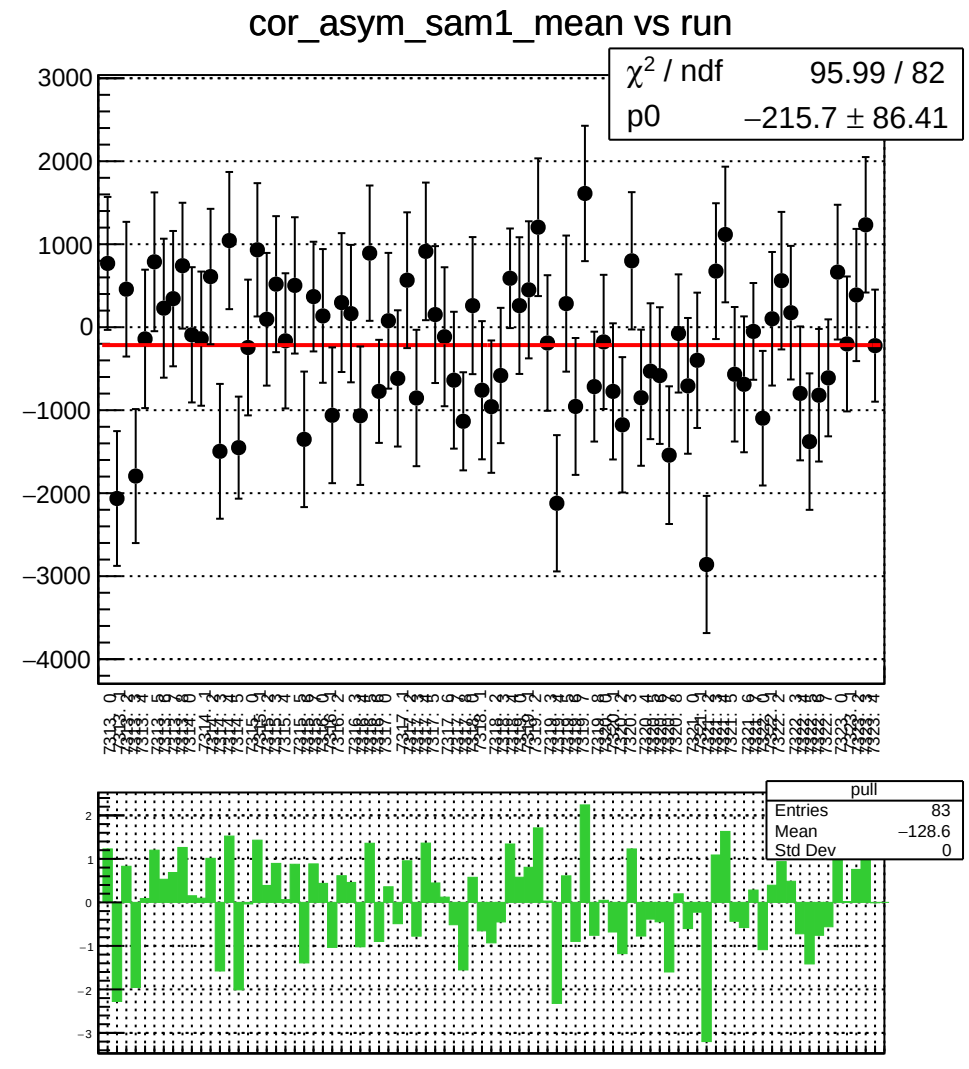

pull1D
Entries 83
Mean 0.01095
Std Dev 1.075

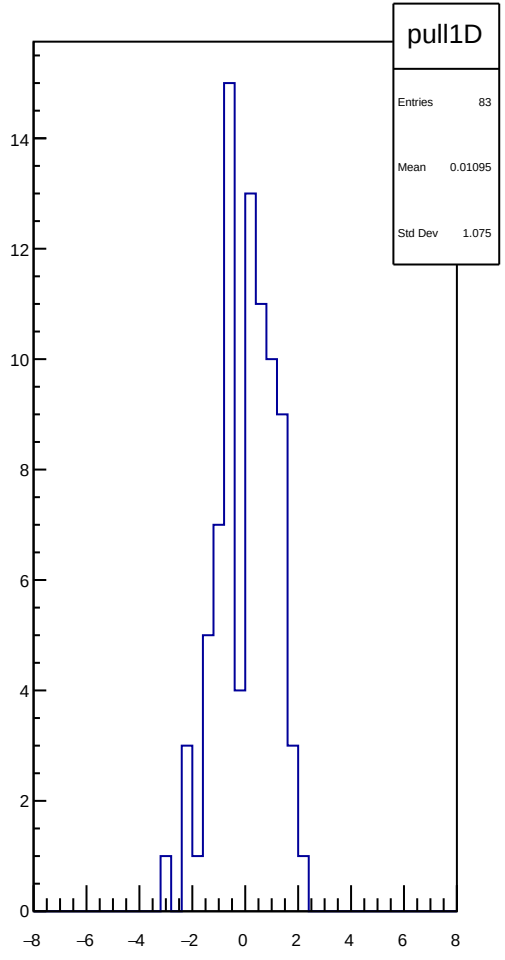

reg_asym_sam1_rms vs run
χ² / ndf 203.6 / 82
p0 77.56 ± 0.0611
80
79
78
77
76
75

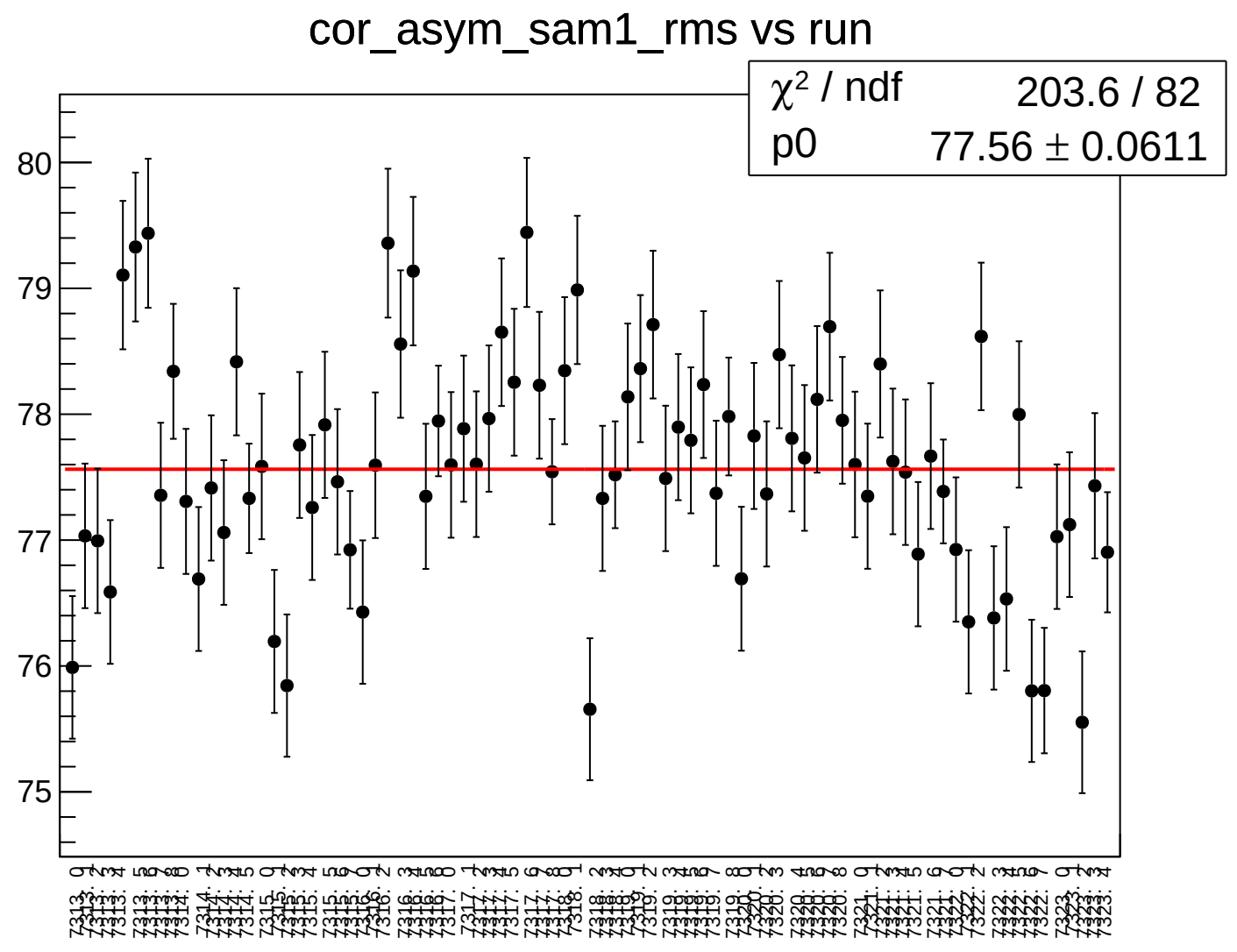

asym_sam1_reg_correction_mean vs run
χ² / ndf 64.48 / 82
p0 −240 ± 432.6
pull
Entries 83
Mean 294.7
Std Dev 0

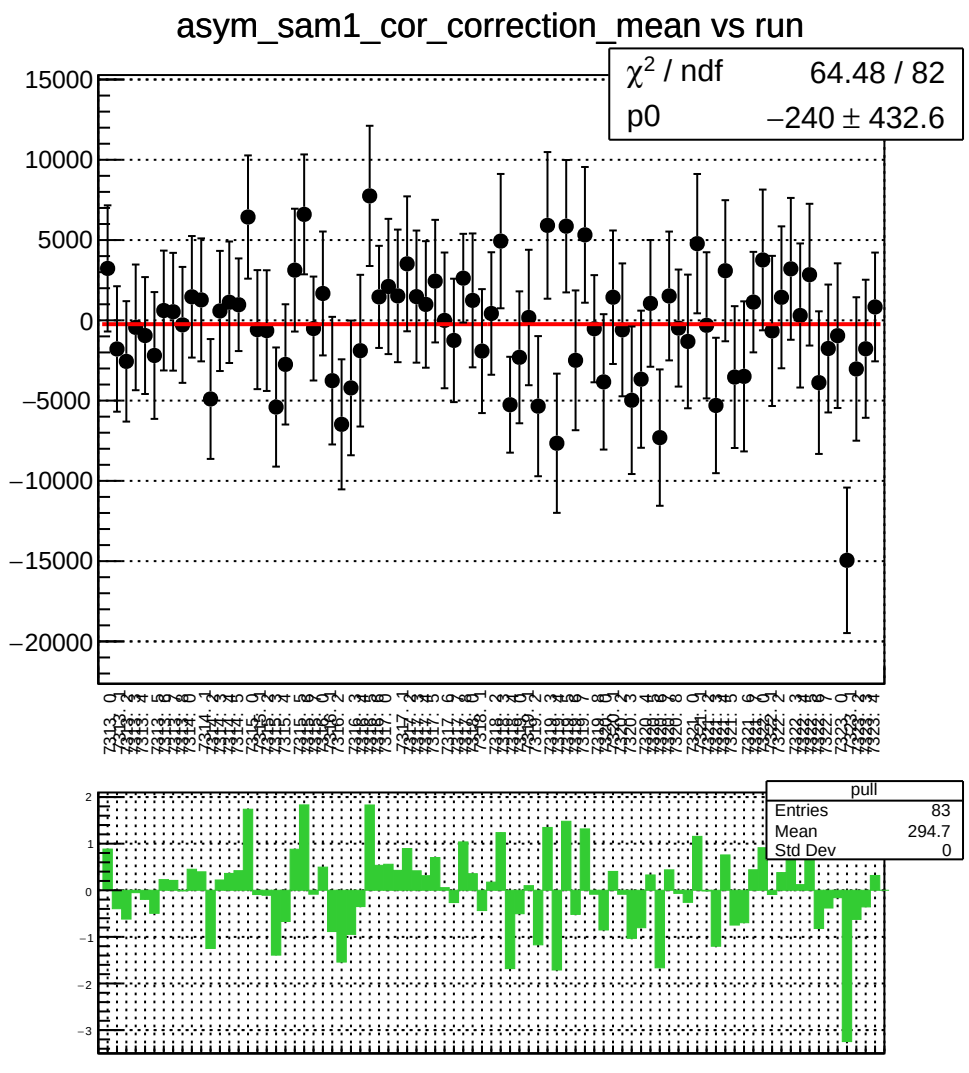

pull1D
Entries 83
Mean −0.01095
Std Dev 0.8813

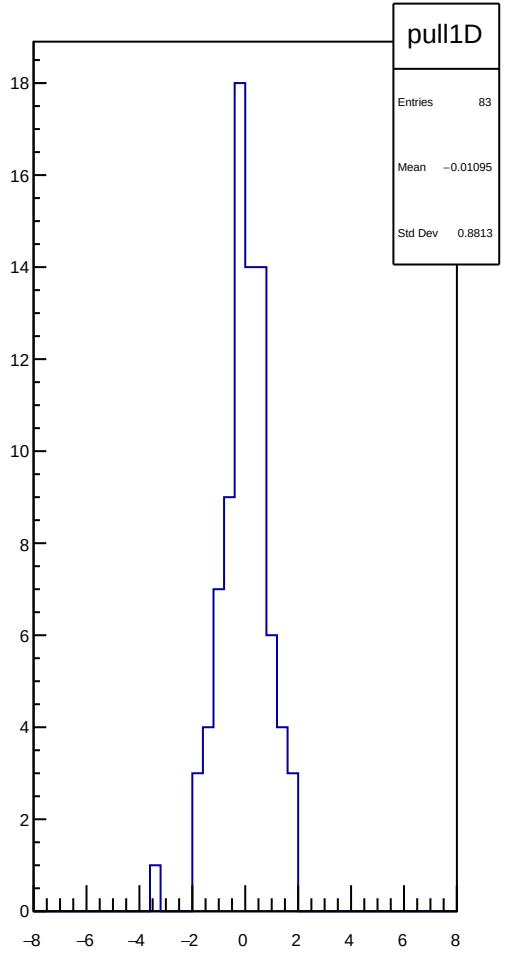

asym_sam1_reg_correction_rms vs run
χ² / ndf 7181 / 82
p0 387.4 ± 0.3059
460
440
420
400
380
360
340

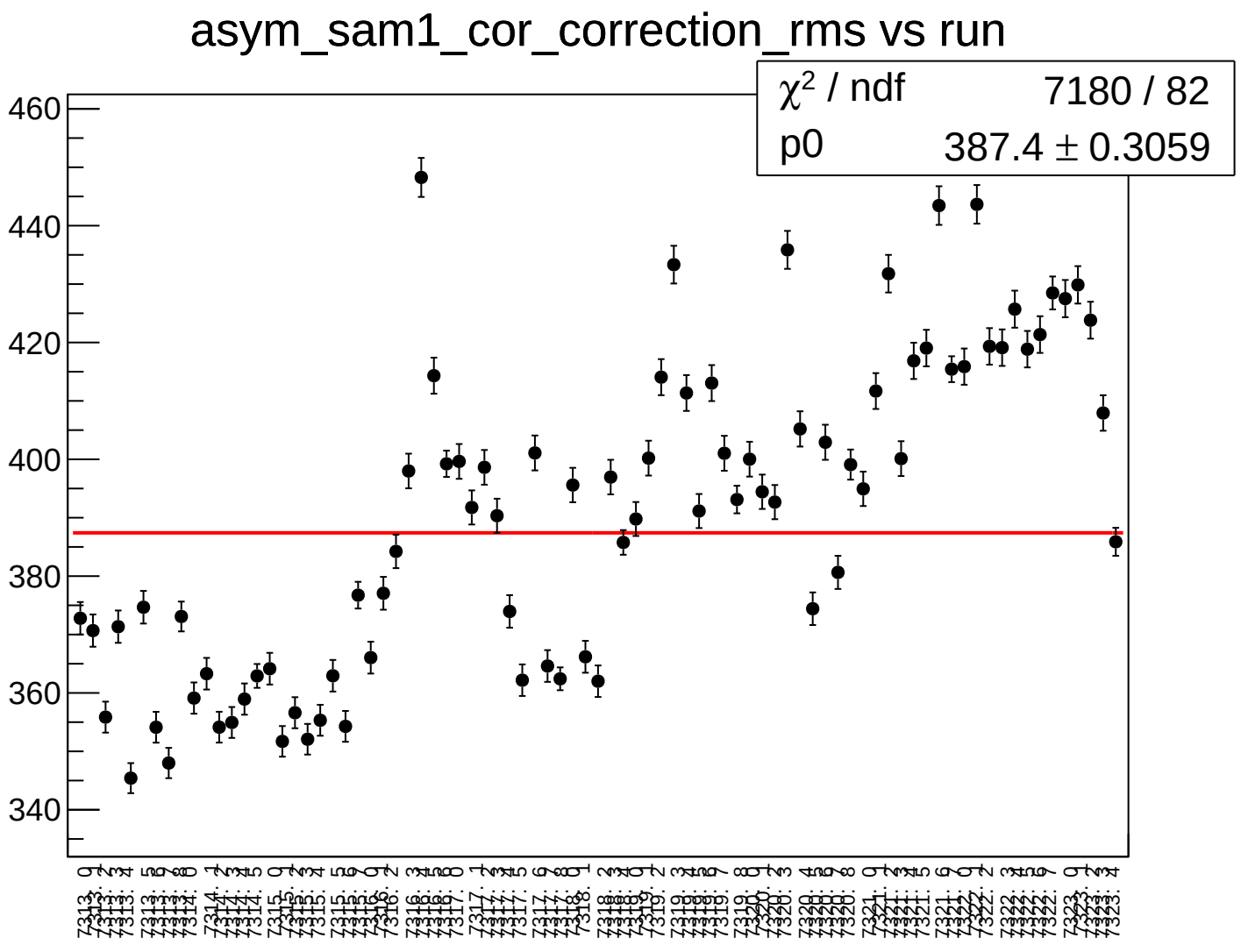

cor_asym_sam1_mean vs run
χ² / ndf 95.99 / 82
p0 −215.7 ± 86.41
pull
Entries 83
Mean −128.6
Std Dev 0

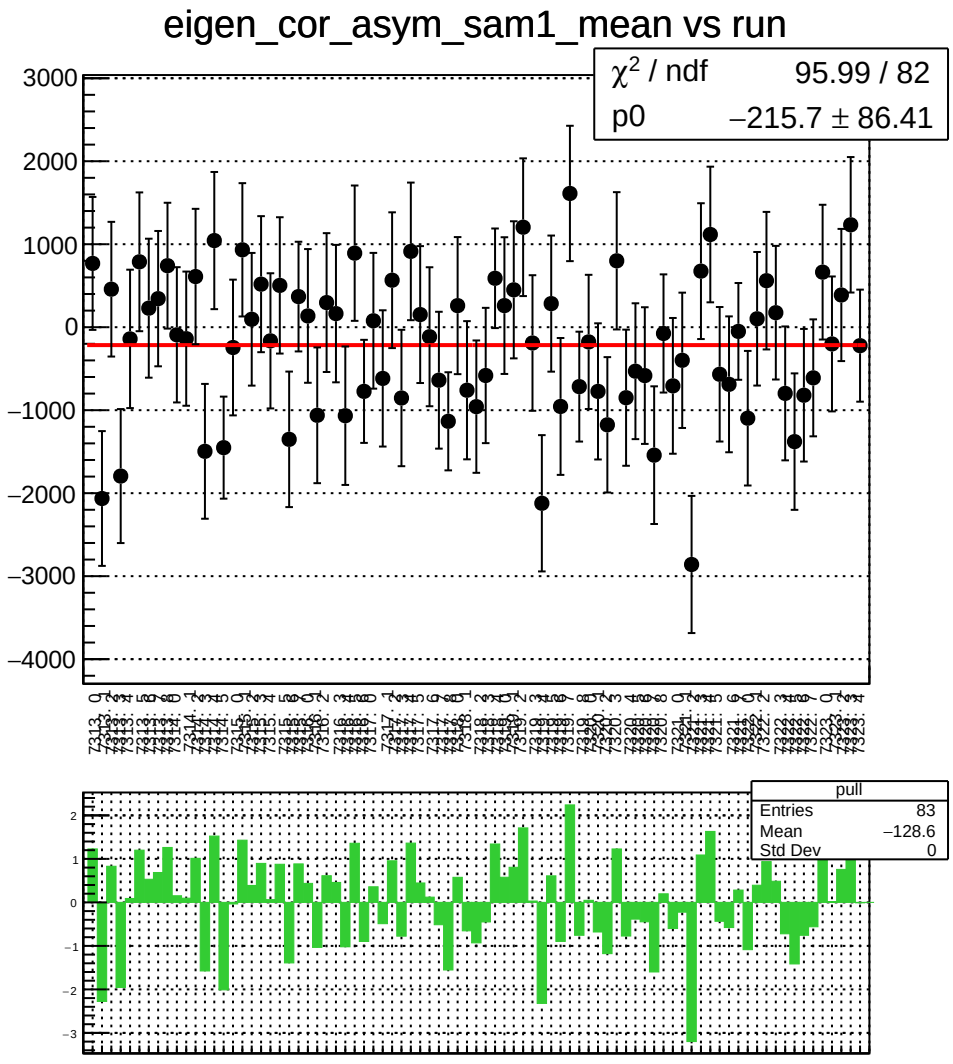

pull1D
Entries 83
Mean 0.01095
Std Dev 1.075

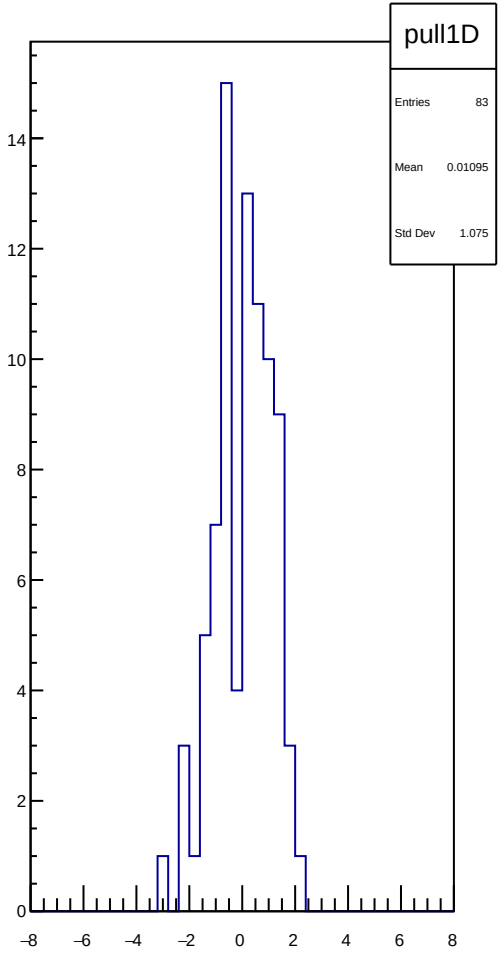

cor_asym_sam1_rms vs run
χ² / ndf 203.6 / 82
p0 77.56 ± 0.0611
80
79
78
77
76
75

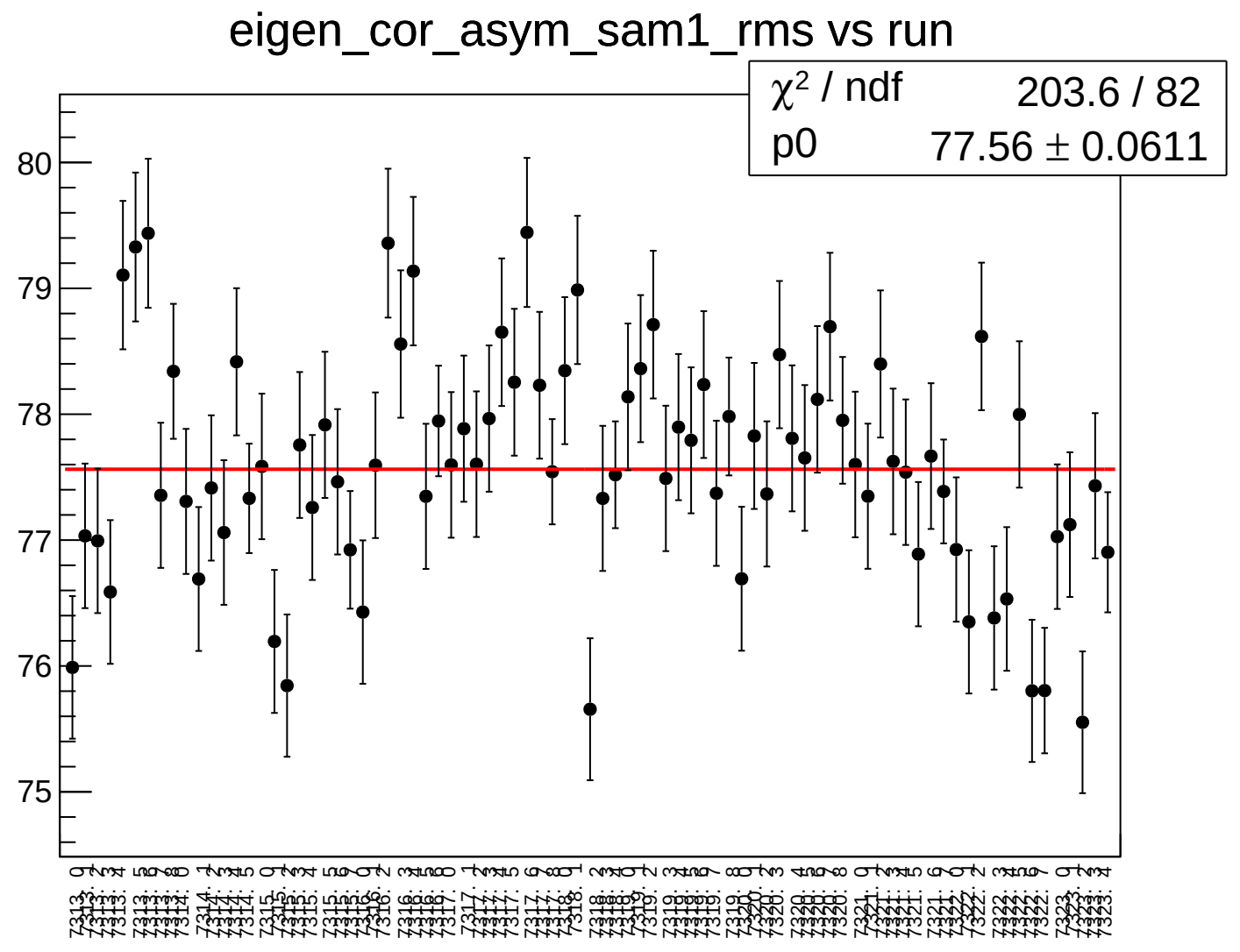

asym_sam1_cor_correction_mean vs run
χ² / ndf 64.48 / 82
p0 −240 ± 432.6
pull
Entries 83
Mean 294.7
Std Dev 0

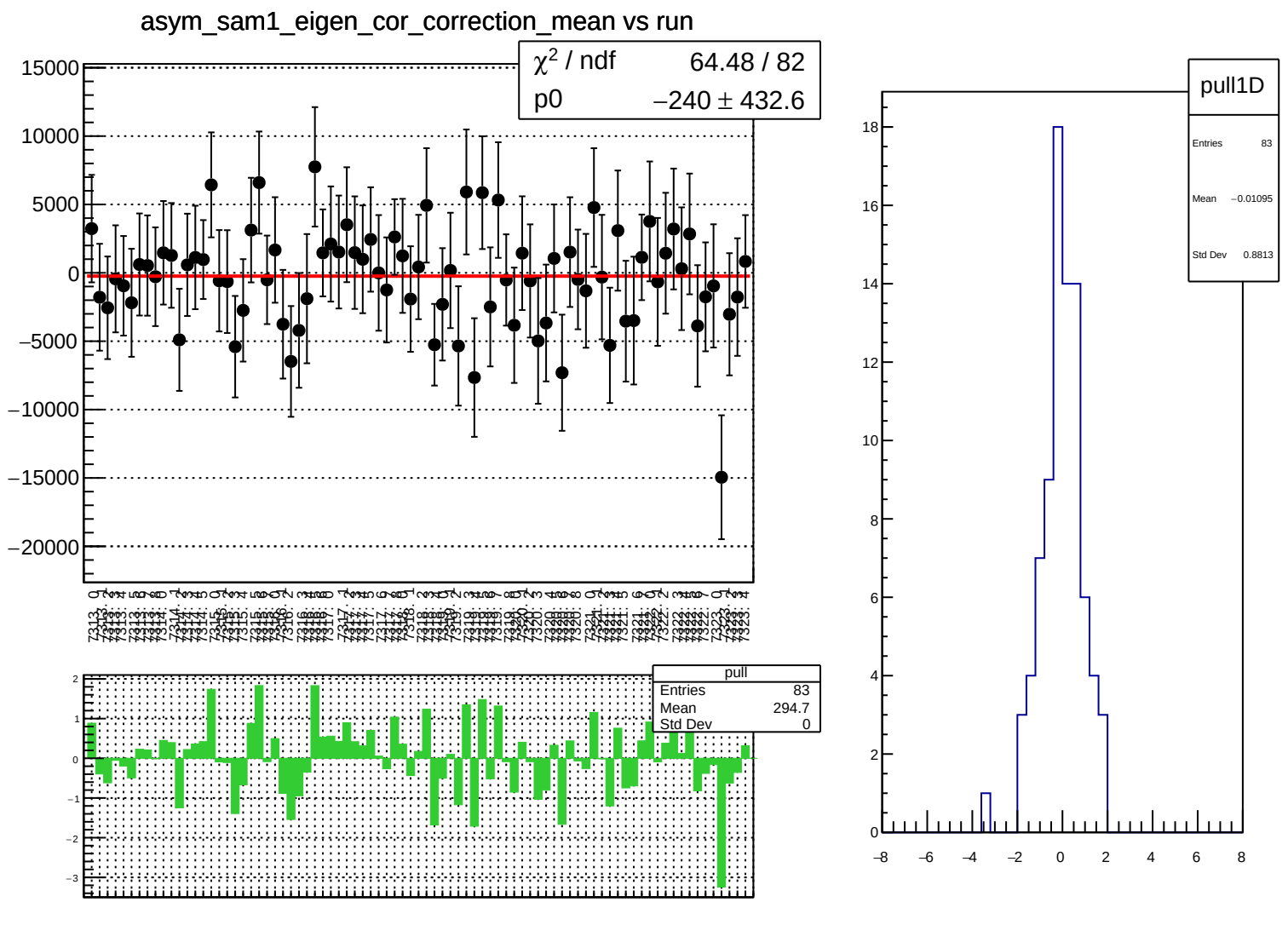

pull1D
Entries 83
Mean −0.01095
Std Dev 0.8813

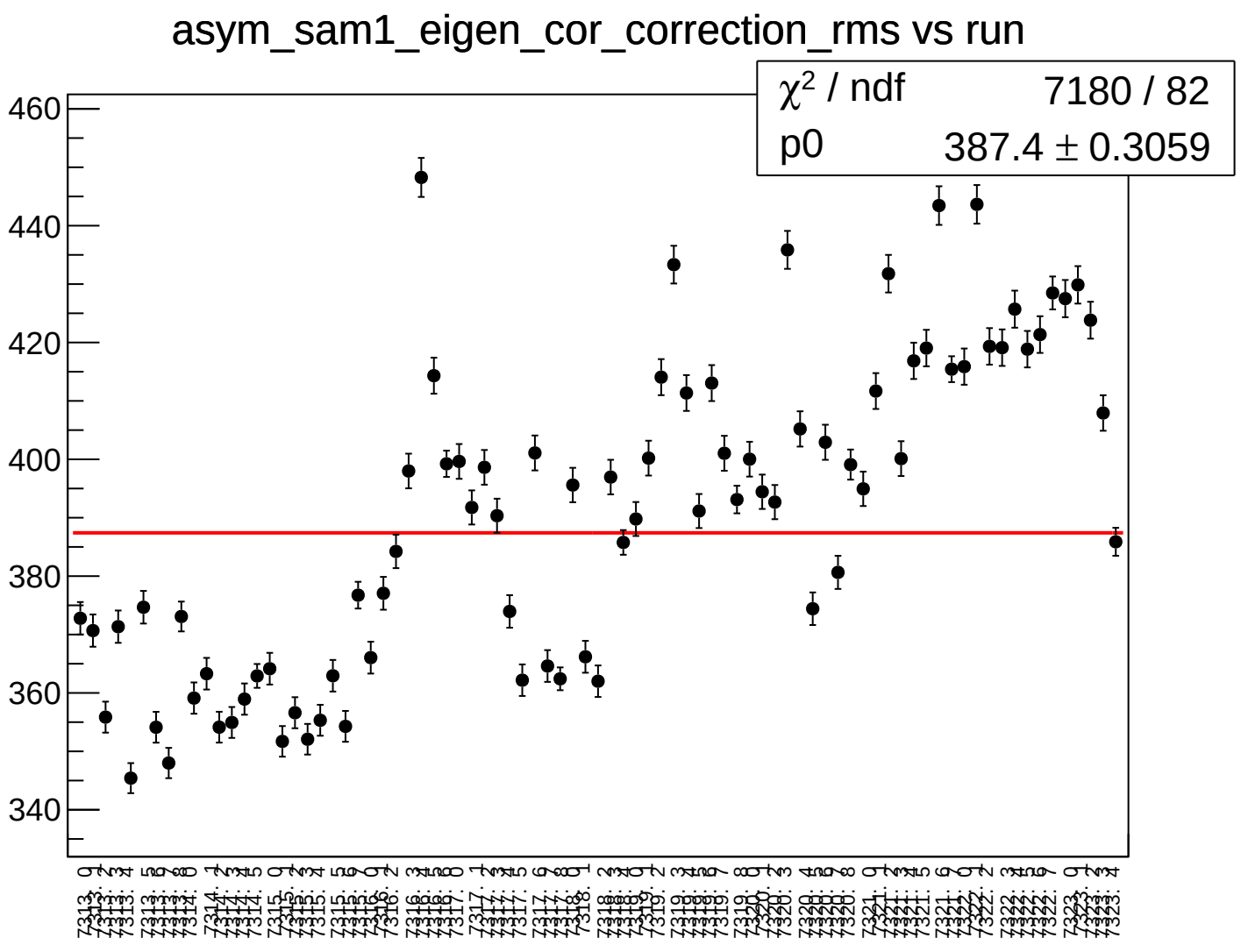

asym_sam1_cor_correction_rms vs run
χ² / ndf 7180 / 82
p0 387.4 ± 0.3059
460
440
420
400
380
360
340

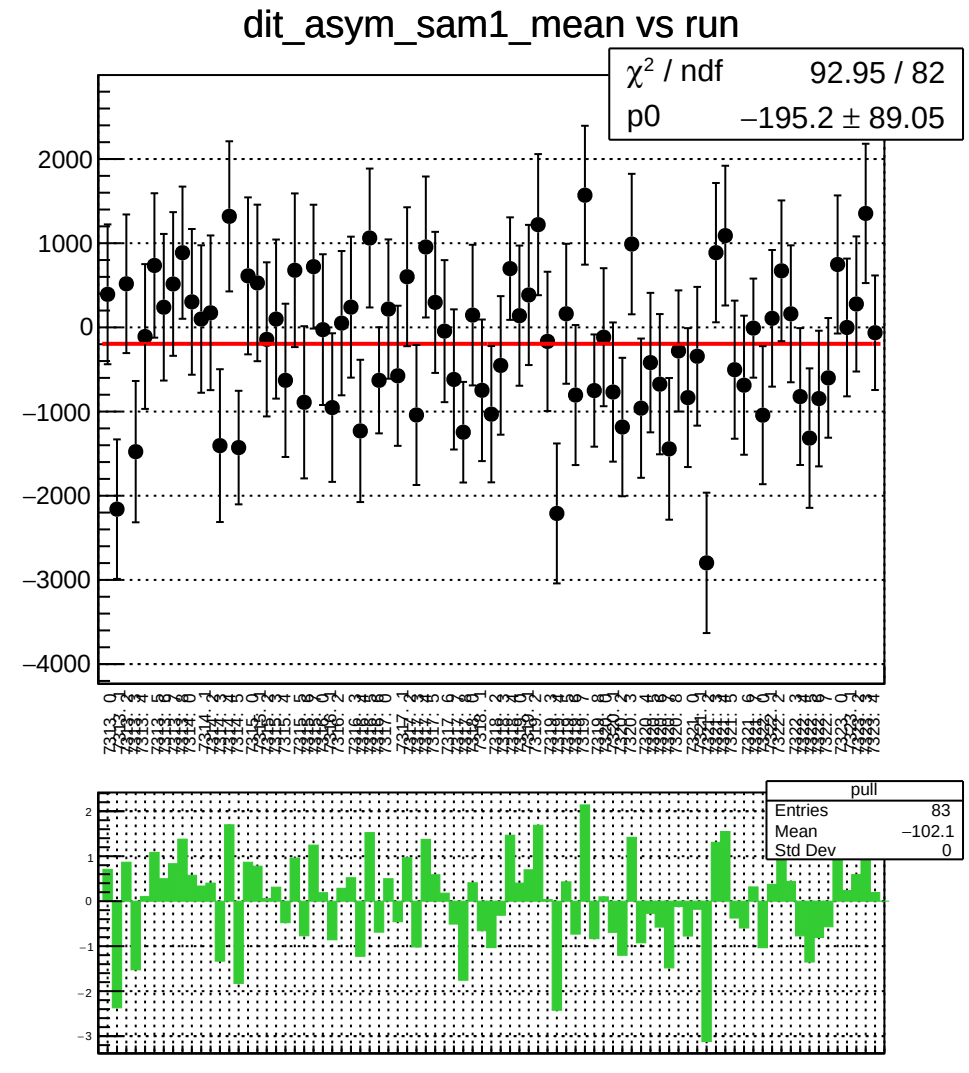

eigen_cor_asym_sam1_mean vs run
χ² / ndf 95.99 / 82
p0 −215.7 ± 86.41
pull
Entries 83
Mean −128.6
Std Dev 0

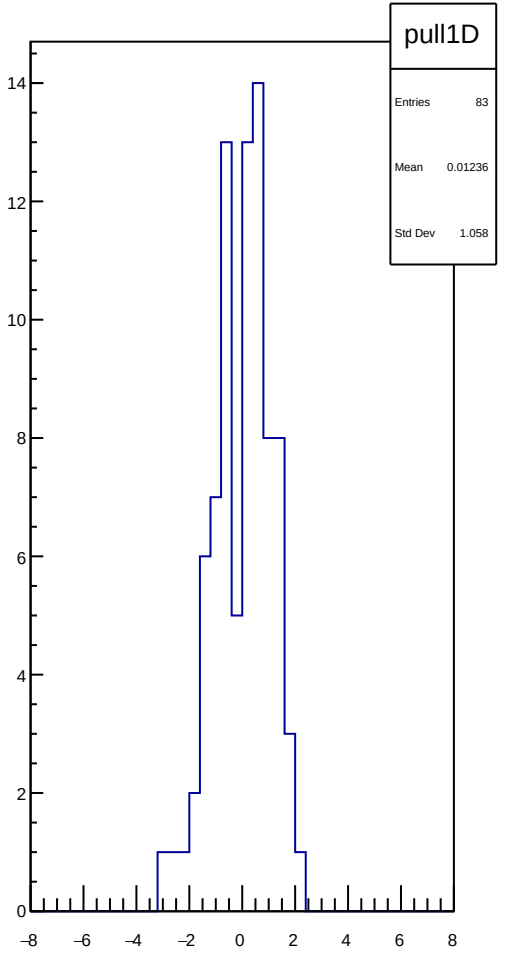

pull1D
Entries 83
Mean 0.01095
Std Dev 1.075

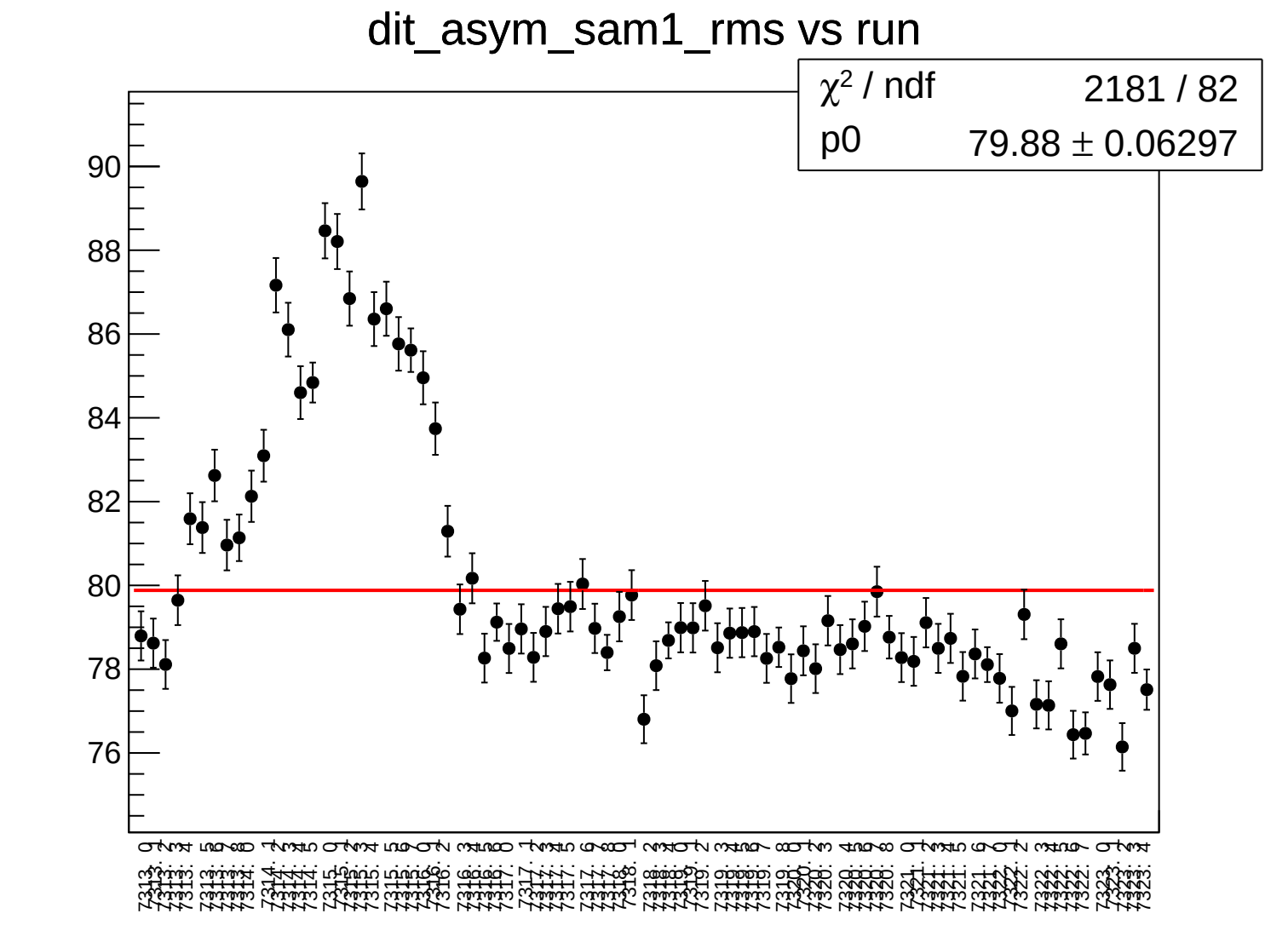

eigen_cor_asym_sam1_rms vs run
χ² / ndf 203.6 / 82
p0 77.56 ± 0.0611
80
79
78
77
76
75

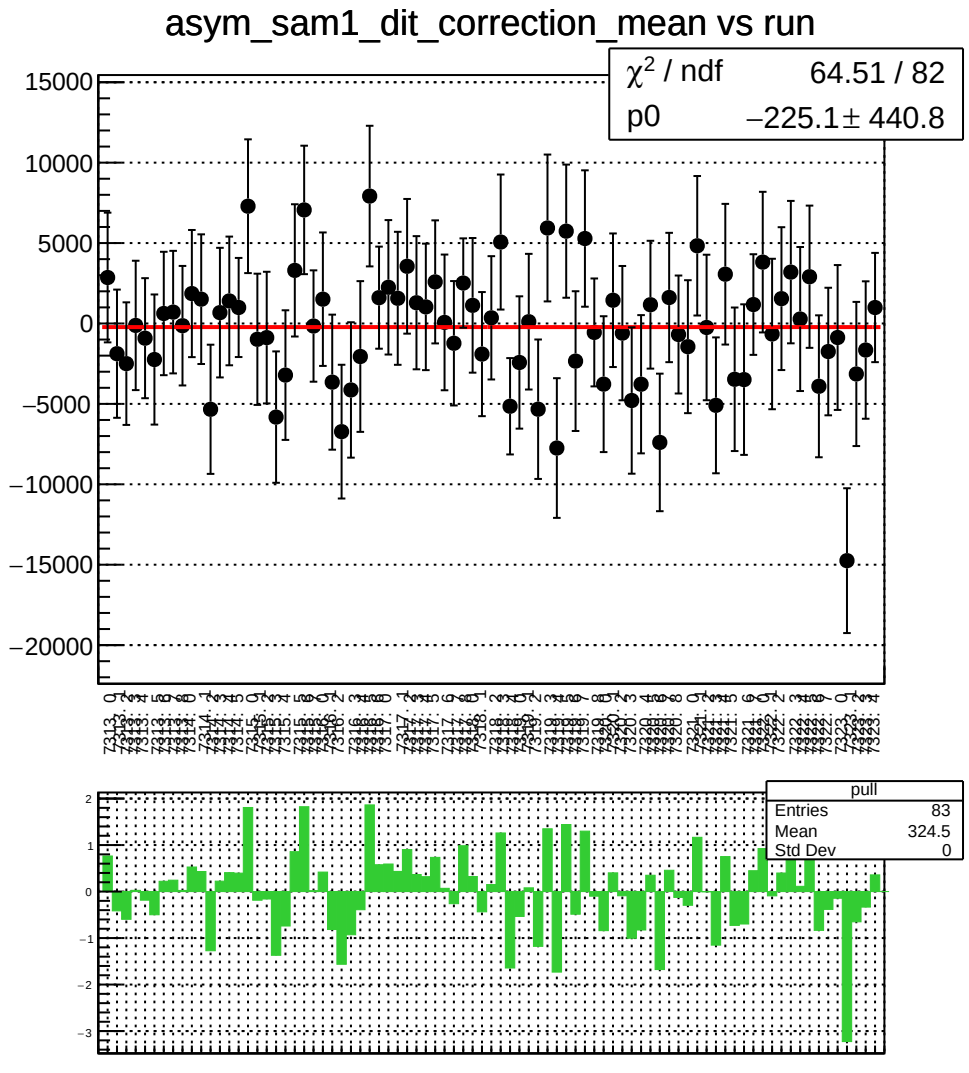

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 64.48 / 82
p0 −240 ± 432.6
pull
Entries 83
Mean 294.7
Std Dev 0
pull1D
Entries 83
Mean −0.01095
Std Dev 0.8813

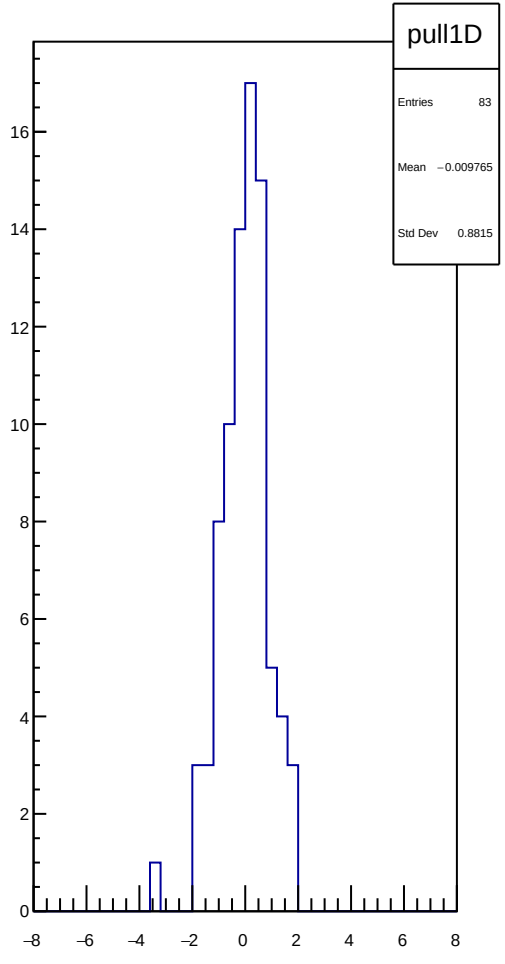

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 7180 / 82
p0 387.4 ± 0.3059
460
440
420
400
380
360
340

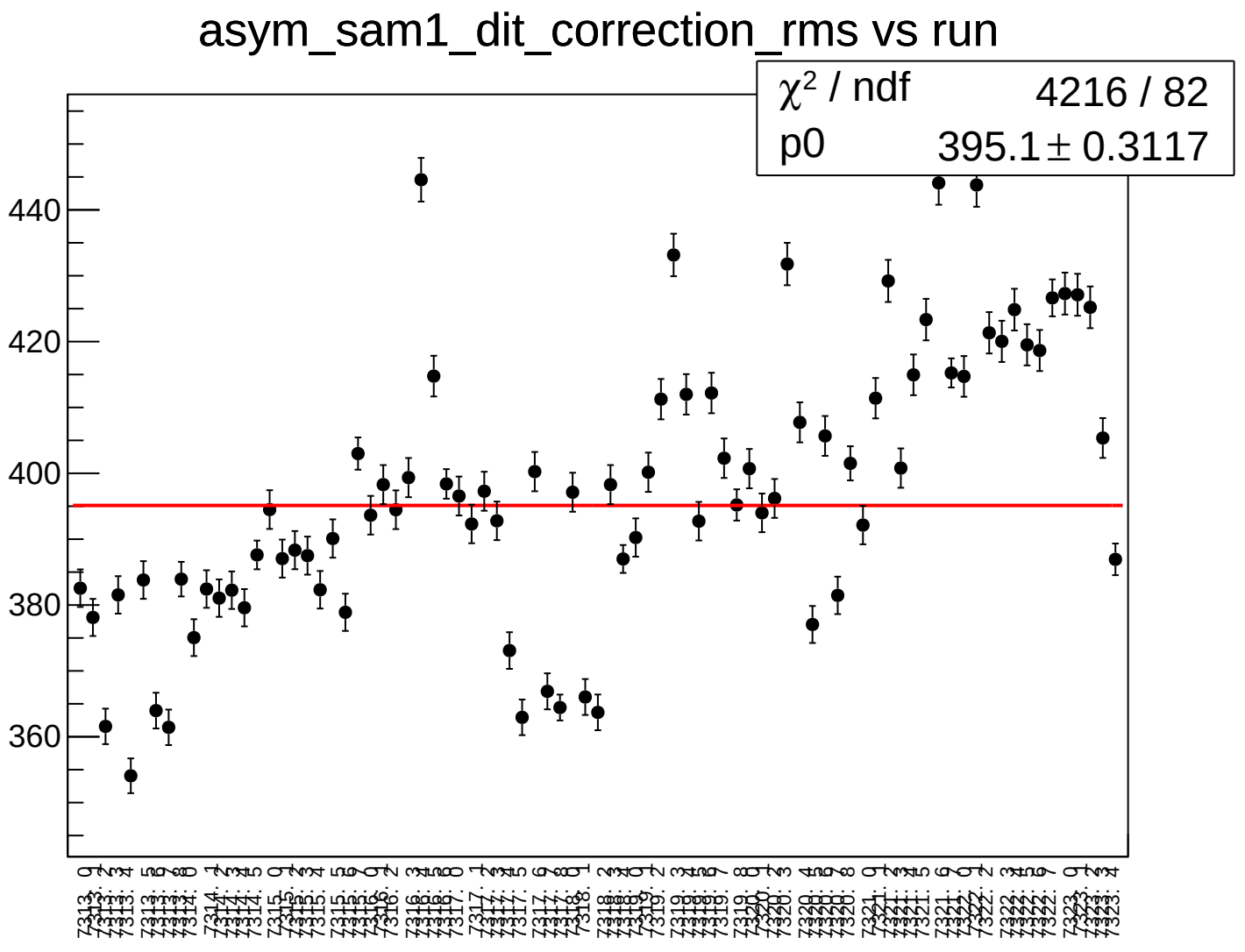

dit_asym_sam1_mean vs run
χ² / ndf 92.95 / 82
p0 −195.2 ± 89.05
pull
Entries 83
Mean −102.1
Std Dev 0

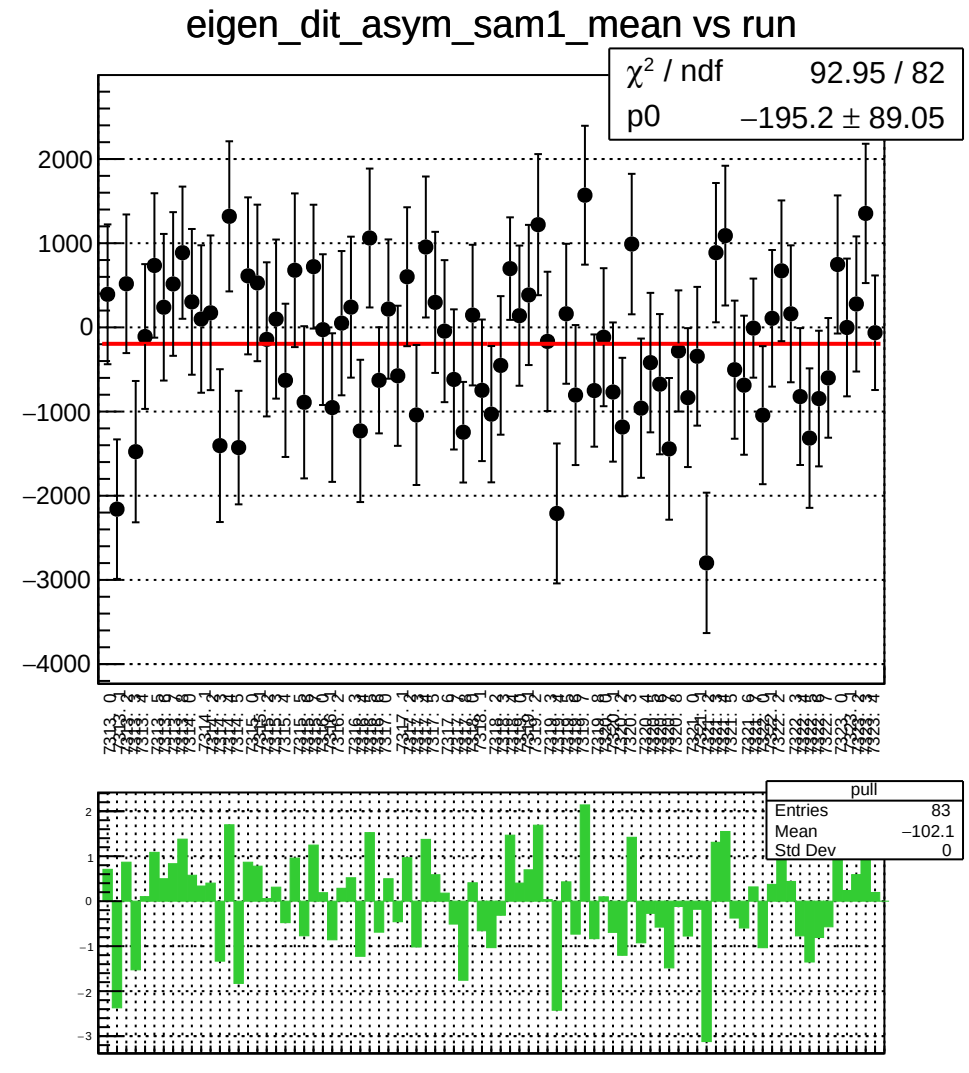

pull1D
Entries 83
Mean 0.01236
Std Dev 1.058

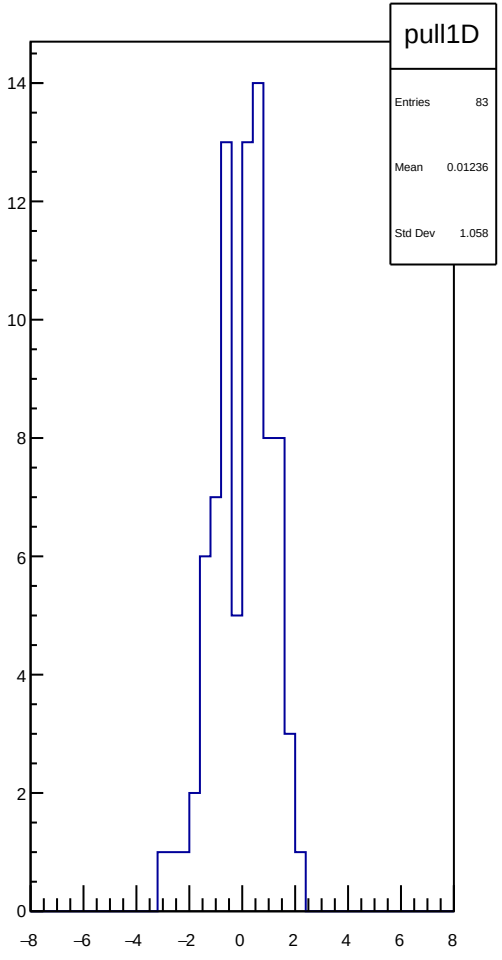

dit_asym_sam1_rms vs run
χ² / ndf 2181 / 82
p0 79.88 ± 0.06297
90
88
86
84
82
80
78
76

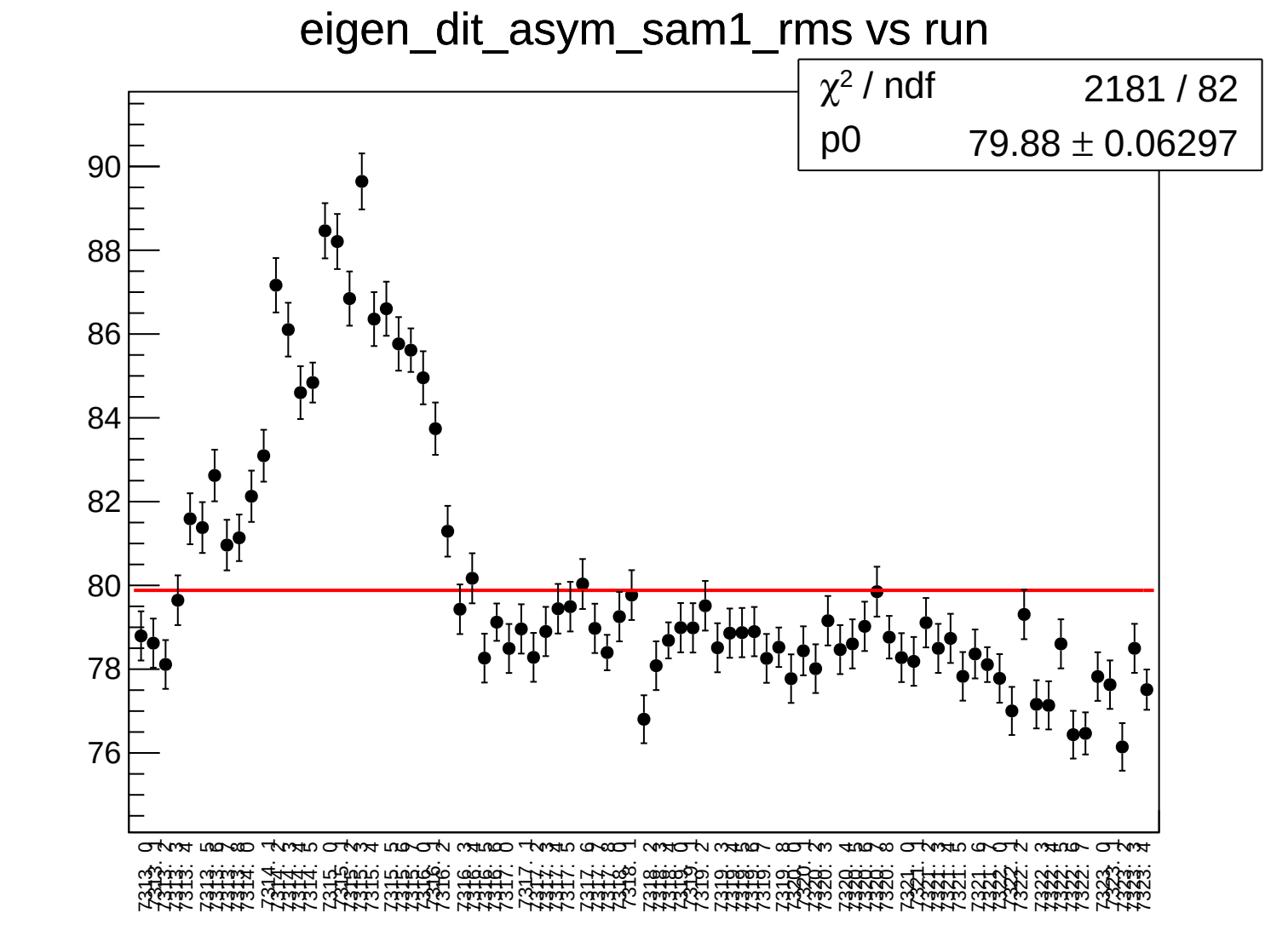

asym_sam1_dit_correction_mean vs run
χ² / ndf 64.51 / 82
p0 −225.1± 440.8
pull
Entries 83
Mean 324.5
Std Dev 0

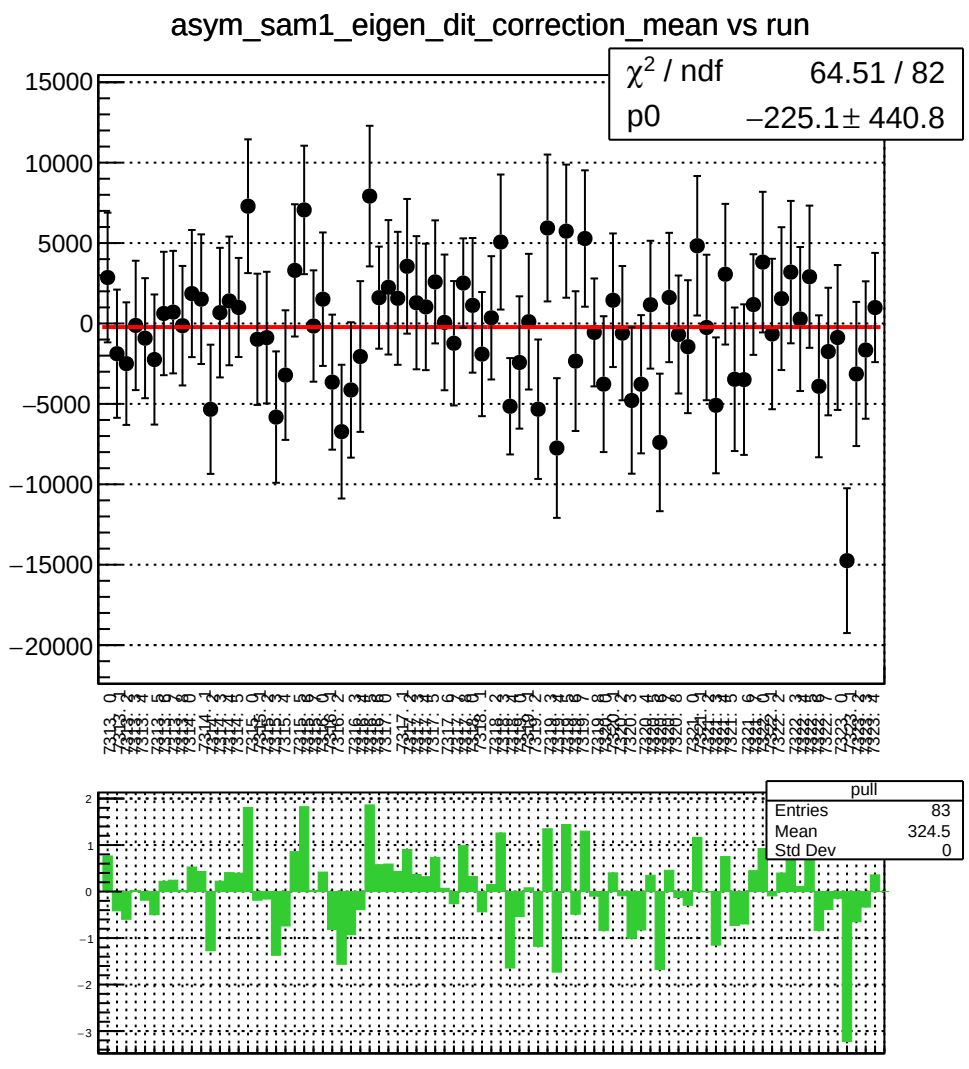

pull1D
Entries 83
Mean −0.009765
Std Dev 0.8815

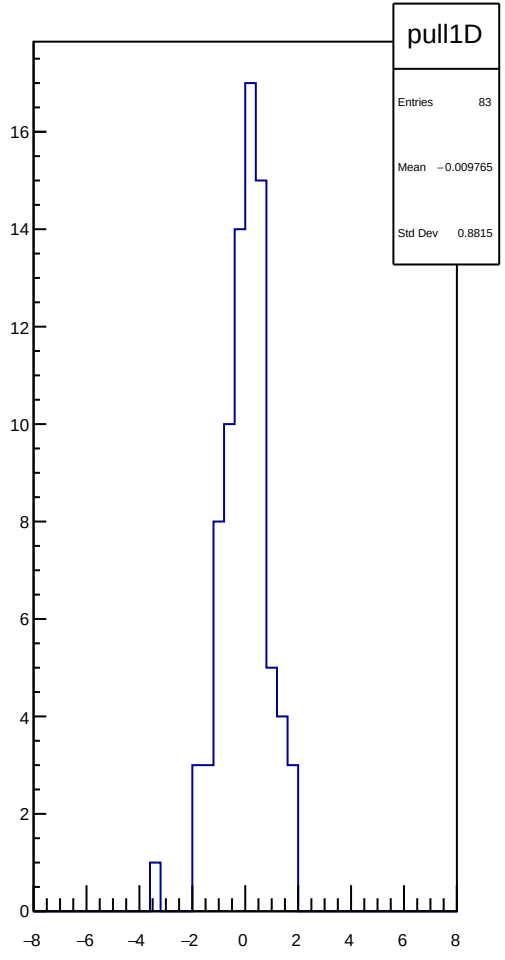

asym_sam1_dit_correction_rms vs run
χ² / ndf 4216 / 82
p0 395.1 ± 0.3117
440
420
400
380
360

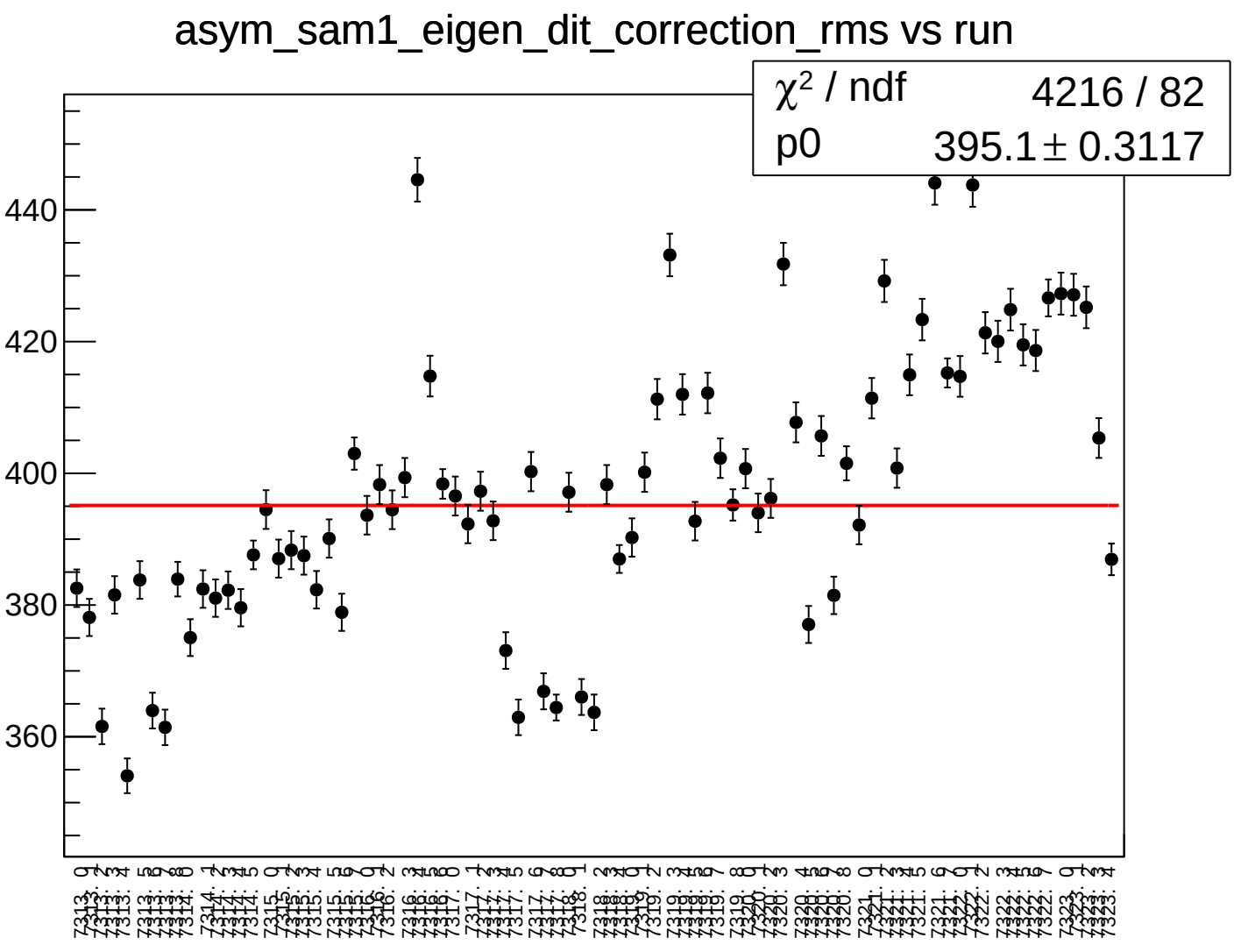

eigen_dit_asym_sam1_mean vs run
χ² / ndf 92.95 / 82
p0 −195.2 ± 89.05
pull
Entries 83
Mean −102.1
Std Dev 0

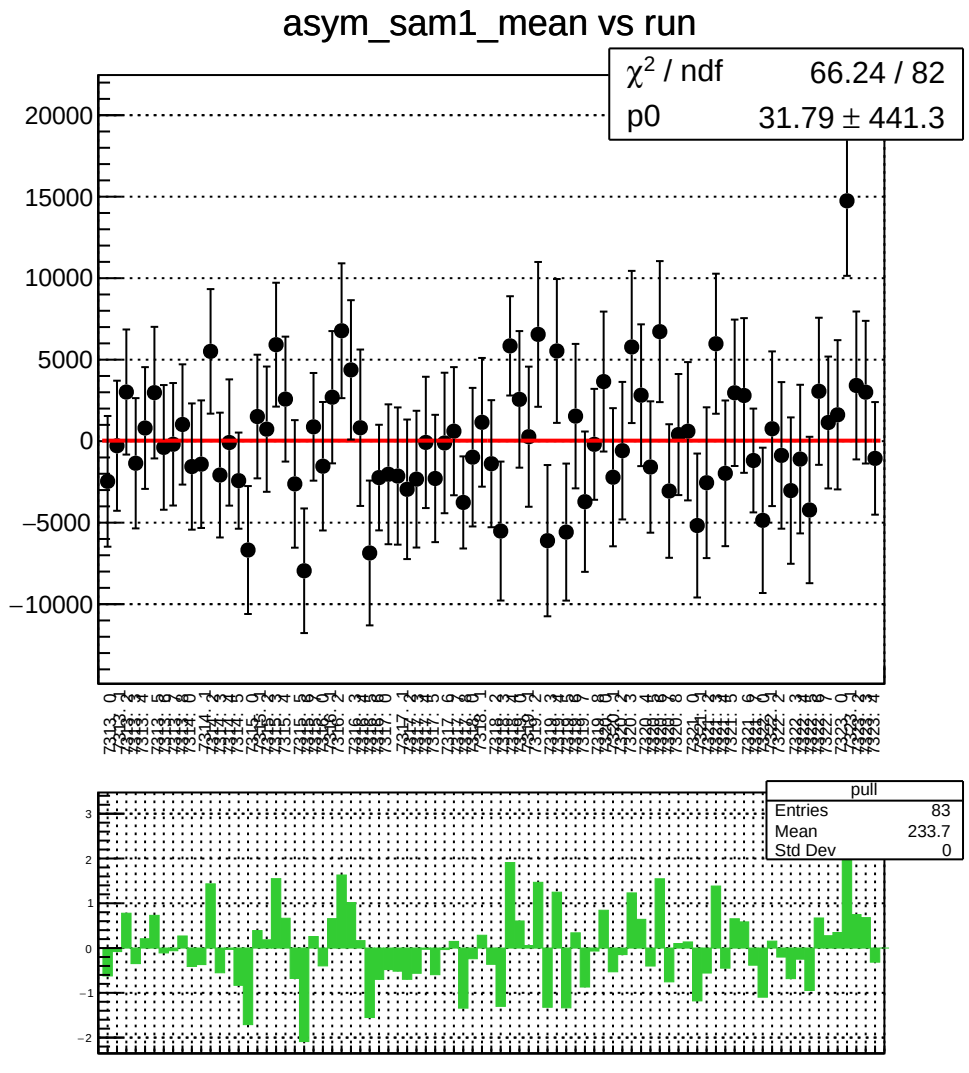

pull1D
Entries 83
Mean 0.01236
Std Dev 1.058

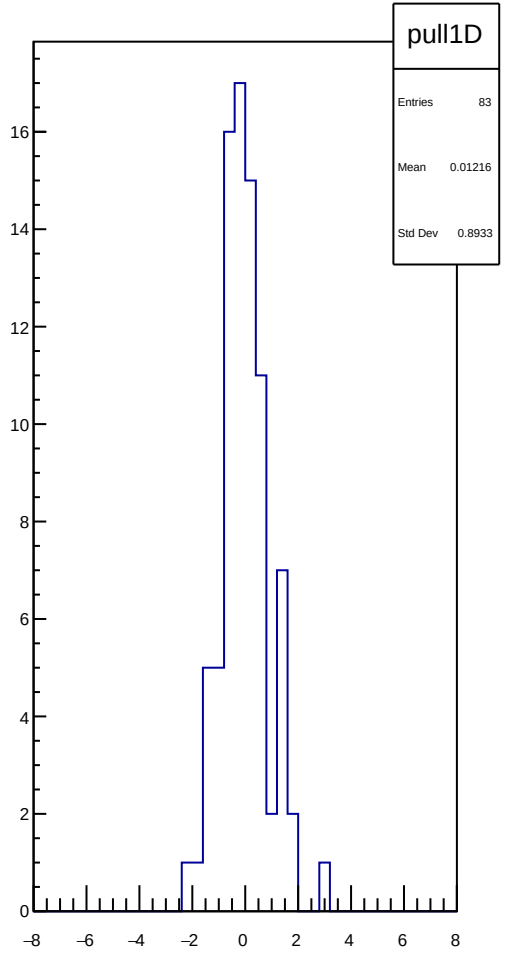

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 2181 / 82
p0 79.88 ± 0.06297
90
88
86
84
82
80
78
76

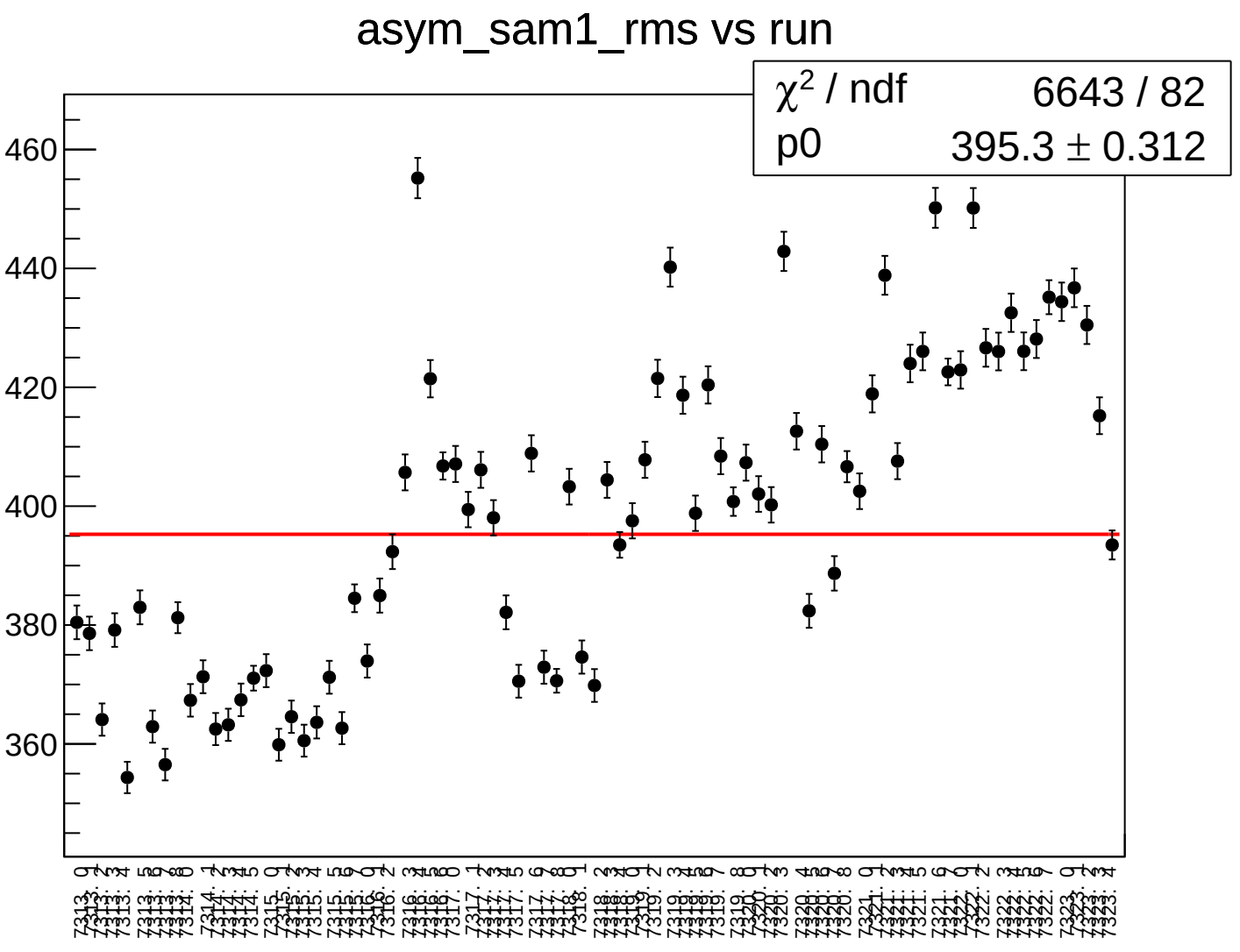

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 64.51 / 82
p0 −225.1± 440.8
pull
Entries 83
Mean 324.5
Std Dev 0

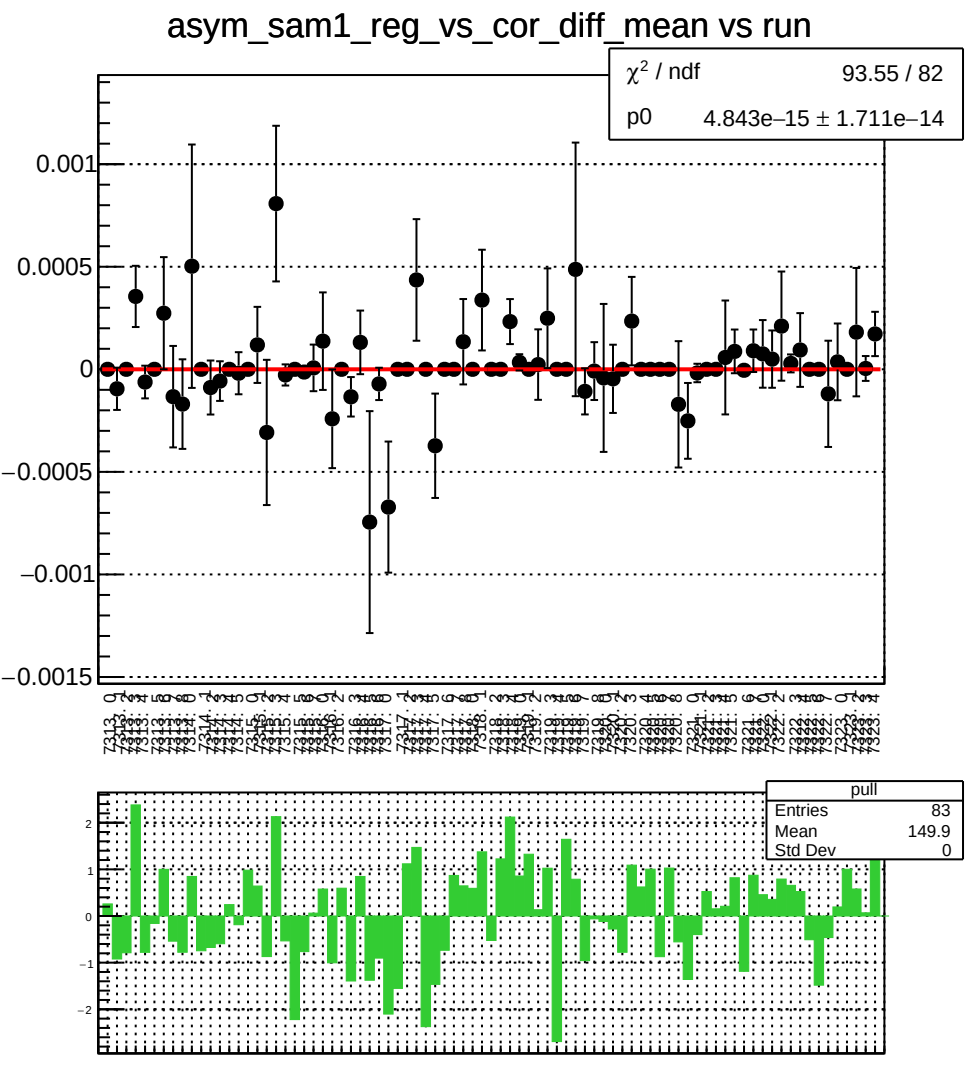

pull1D
Entries 83
Mean −0.009765
Std Dev 0.8815

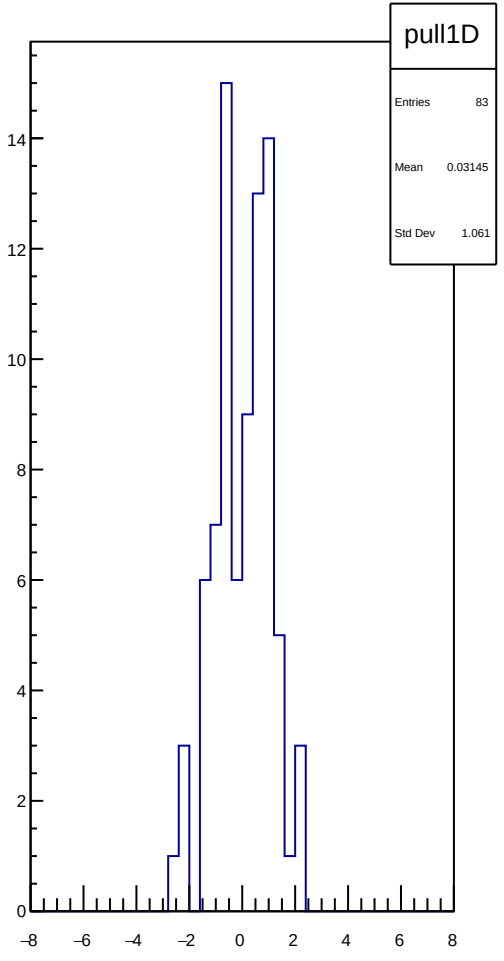

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4216 / 82
p0 395.1 ± 0.3117
440
420
400
380
360

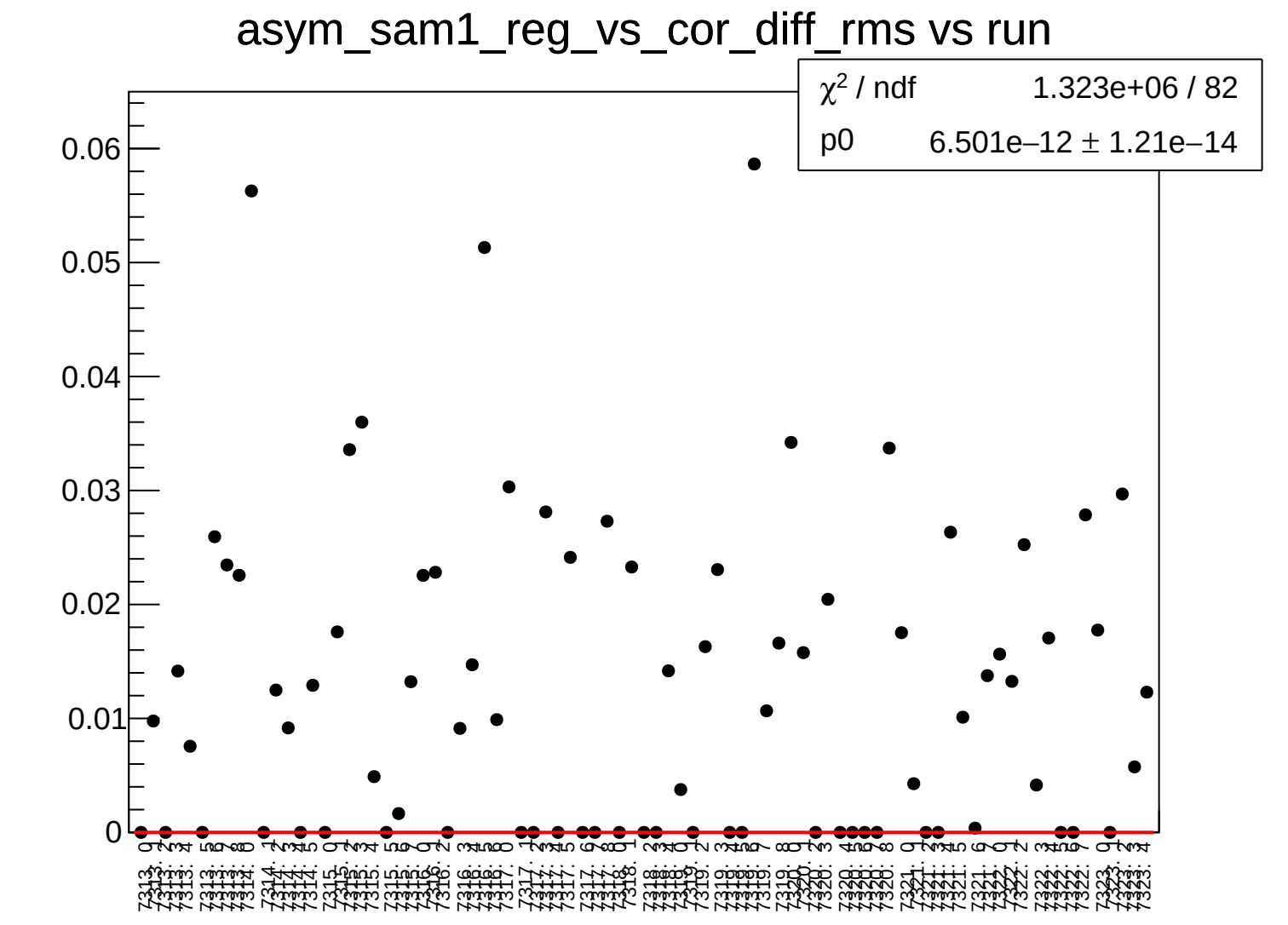

asym_sam1_mean vs run
χ² / ndf 66.24 / 82
p0 31.79 ± 441.3
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 233.7
Std Dev 0
3
2
1
0
−1
−2

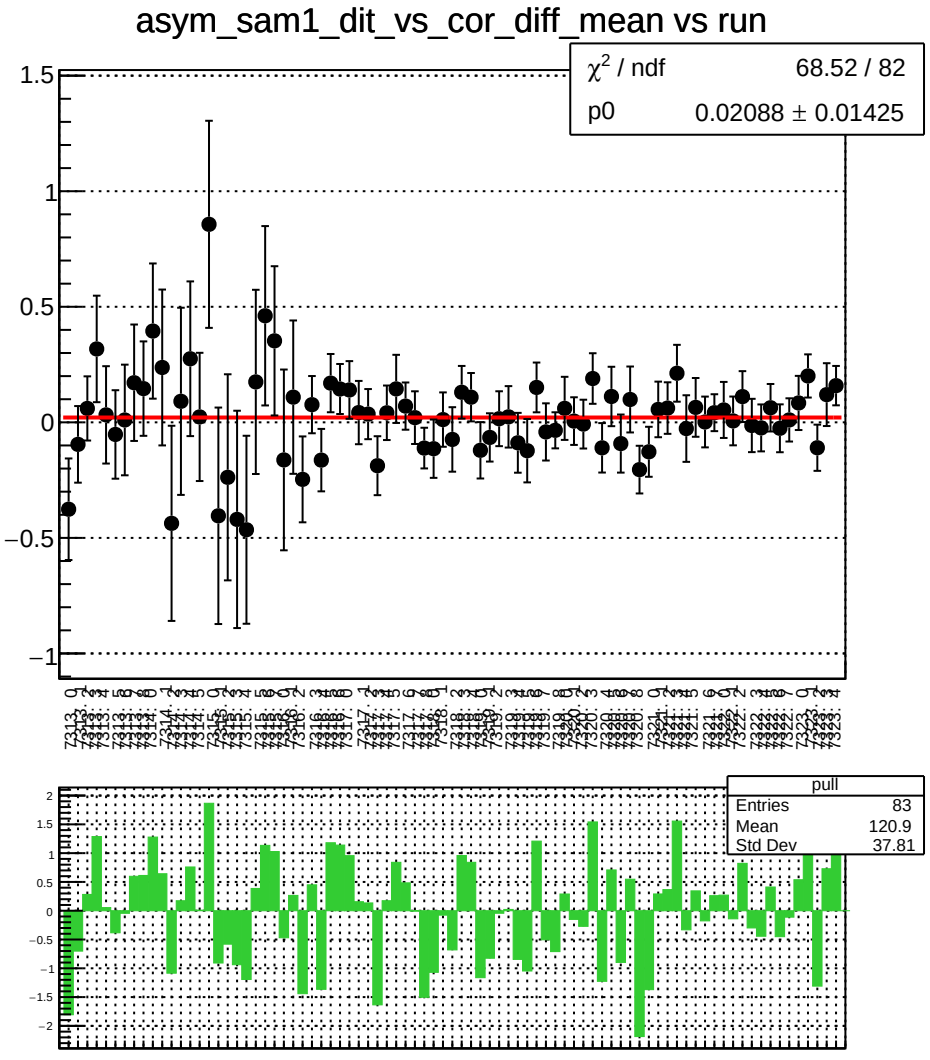

pull1D
Entries 83
Mean 0.01216
Std Dev 0.8933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

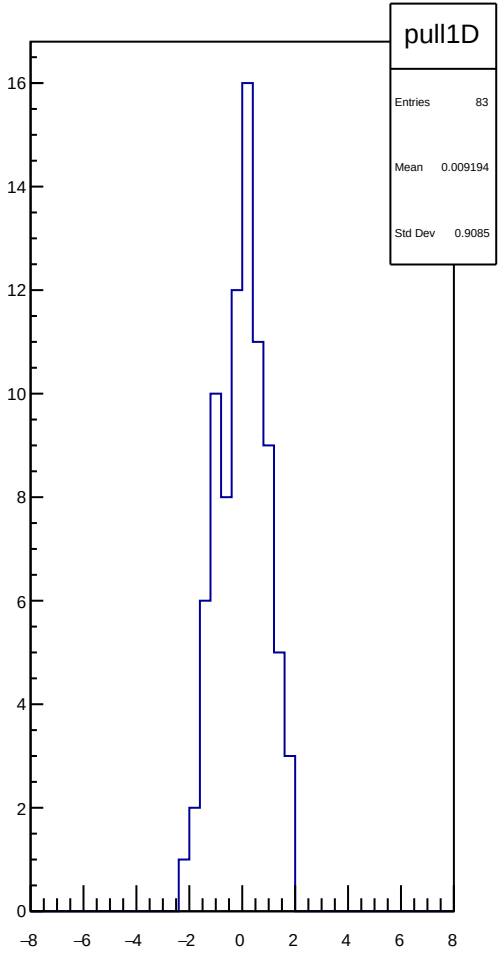

asym_sam1_rms vs run
χ² / ndf 6643 / 82
p0 395.3 ± 0.312
460
440
420
400
380
360

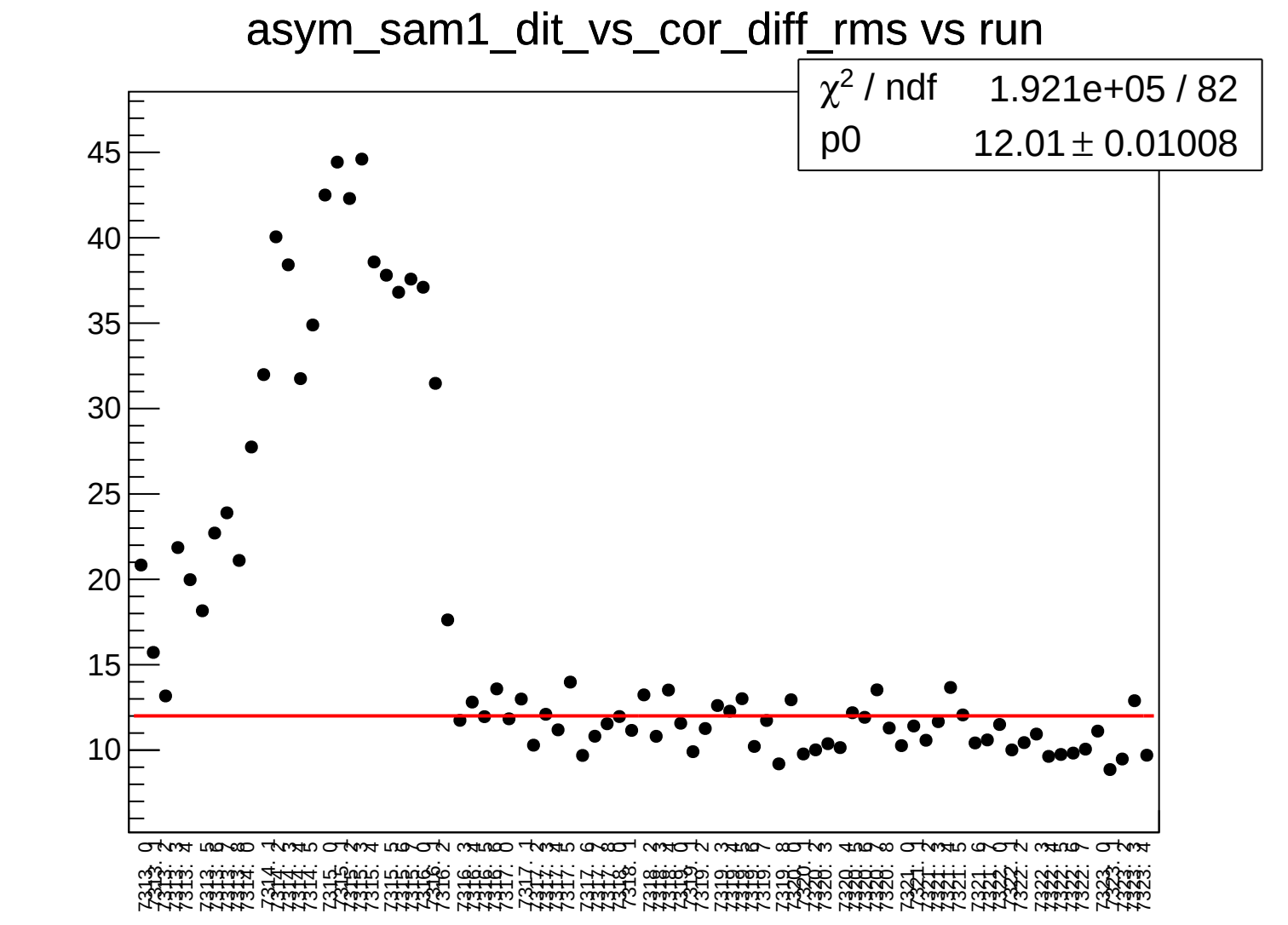

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 93.55 / 82
p0 4.843e−15 ± 1.711e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 83
Mean 149.9
Std Dev 0

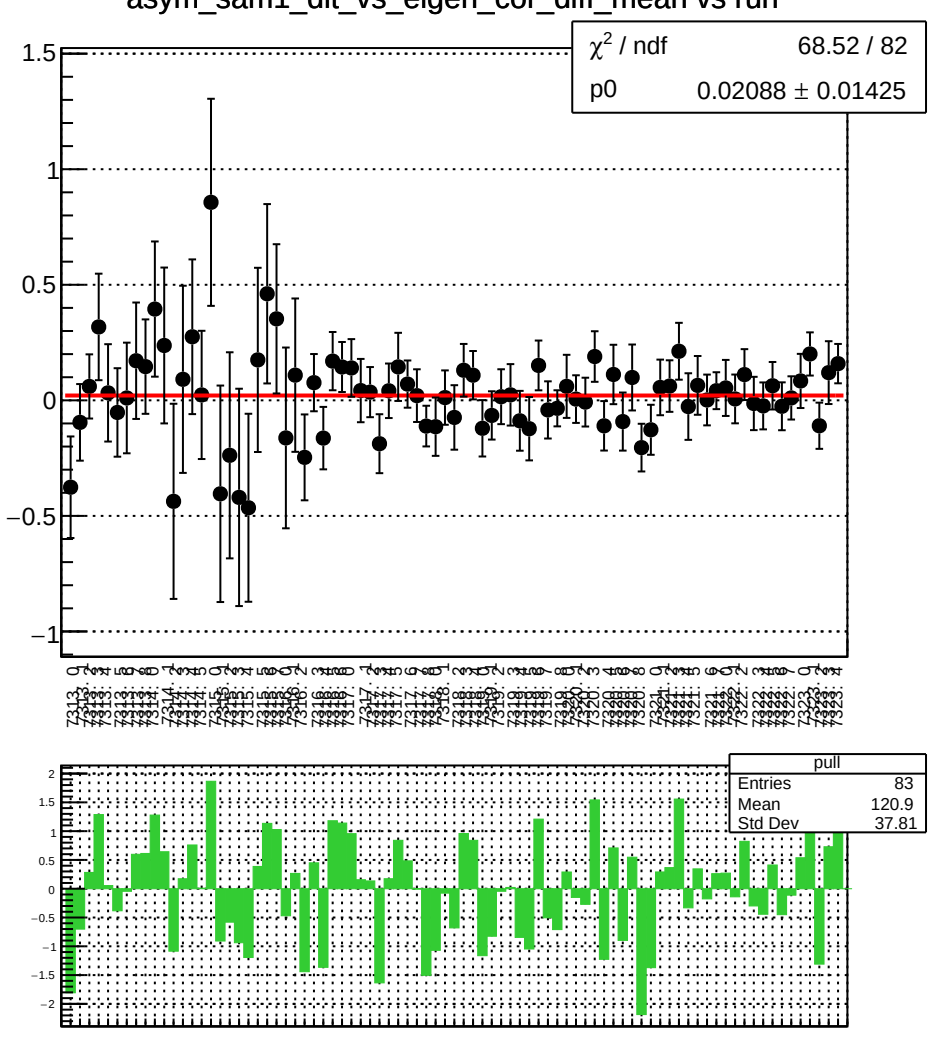

pull1D
Entries 83
Mean 0.03145
Std Dev 1.061

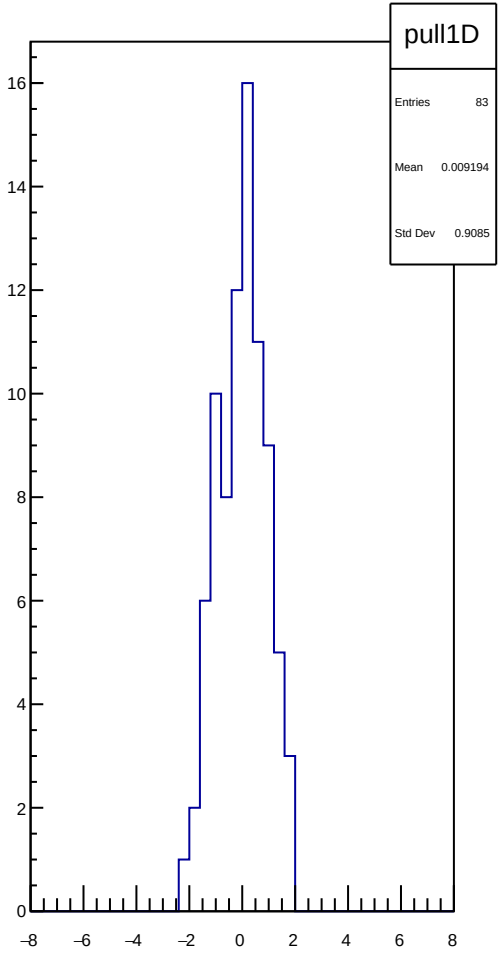

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.323e+06 / 82
p0 6.501e−12 ± 1.21e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

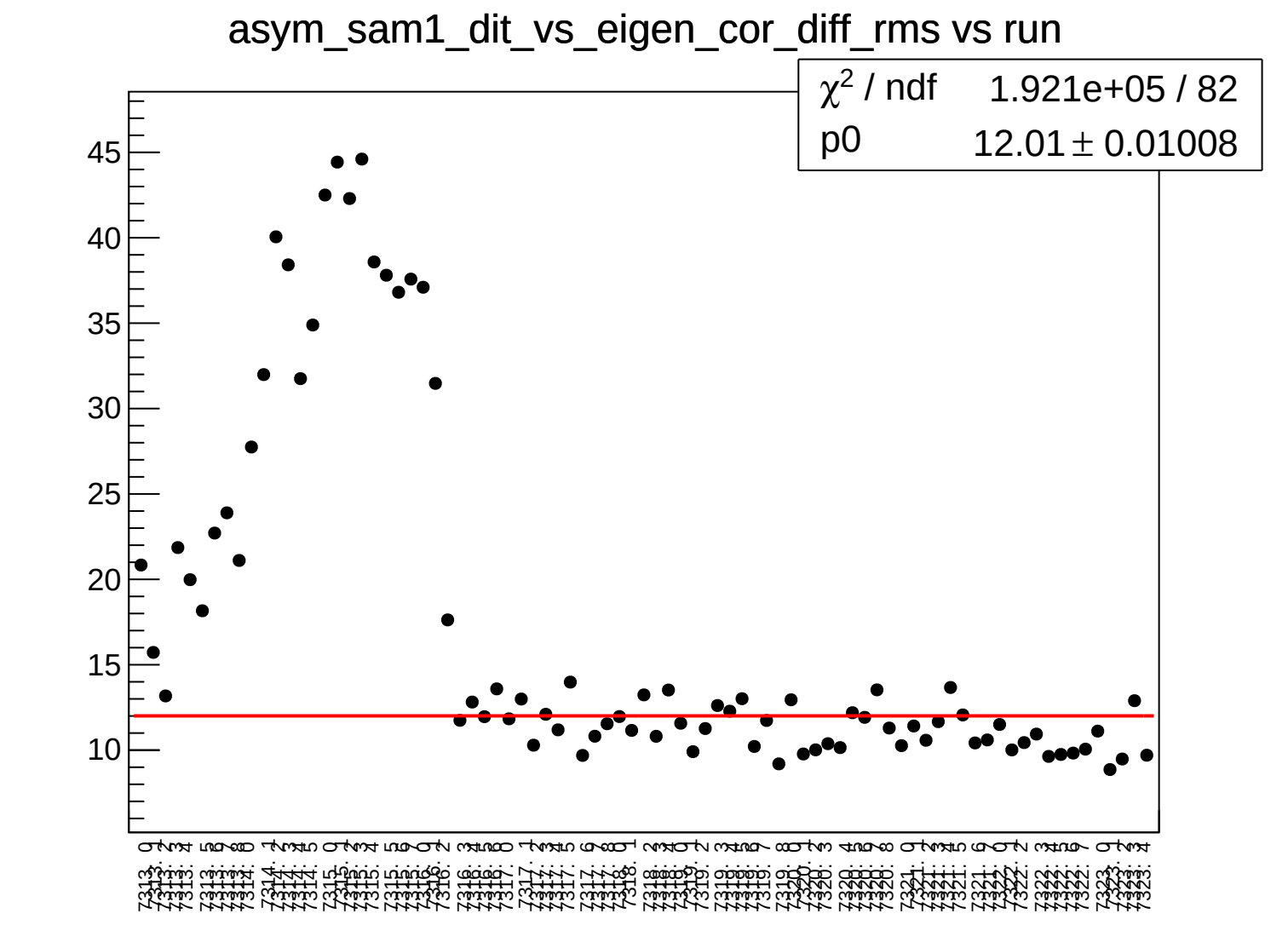

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 68.52 / 82
p0 0.02088 ± 0.01425
pull
Entries 83
Mean 120.9
Std Dev 37.81

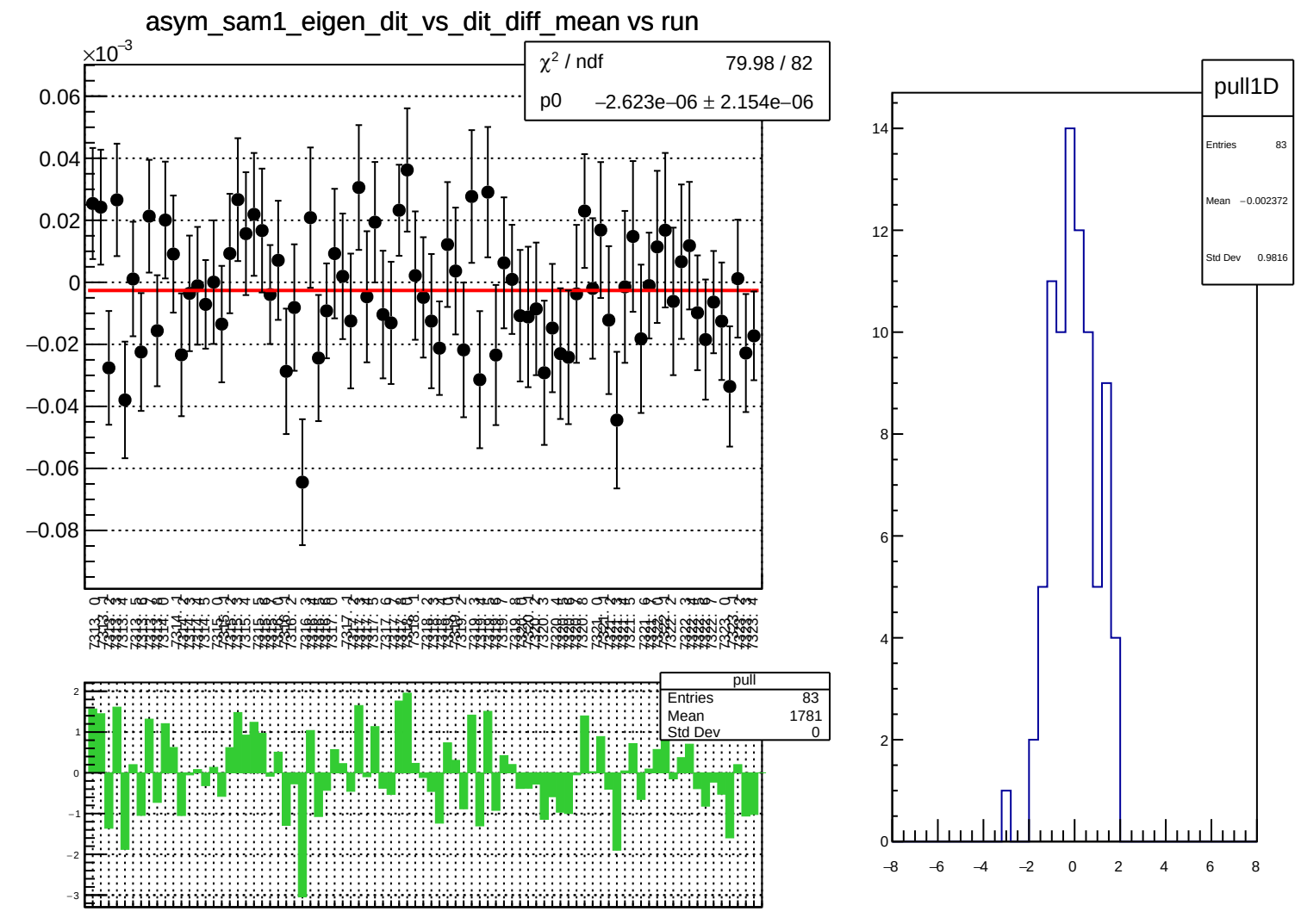

pull1D
Entries 83
Mean 0.009194
Std Dev 0.9085

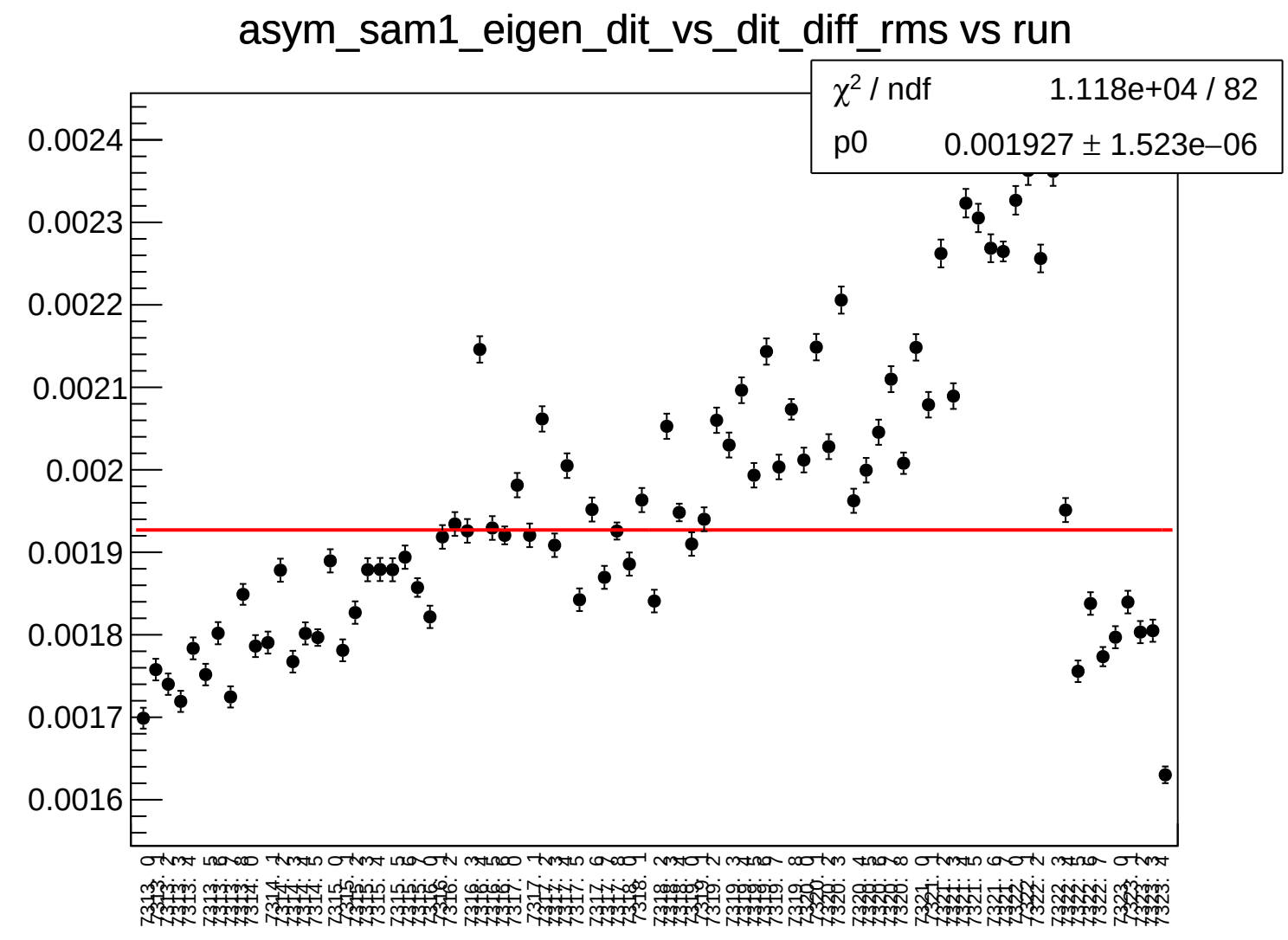

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.921e+05 / 82
p0 12.01 ± 0.01008
45
40
35
30
25
20
15
10

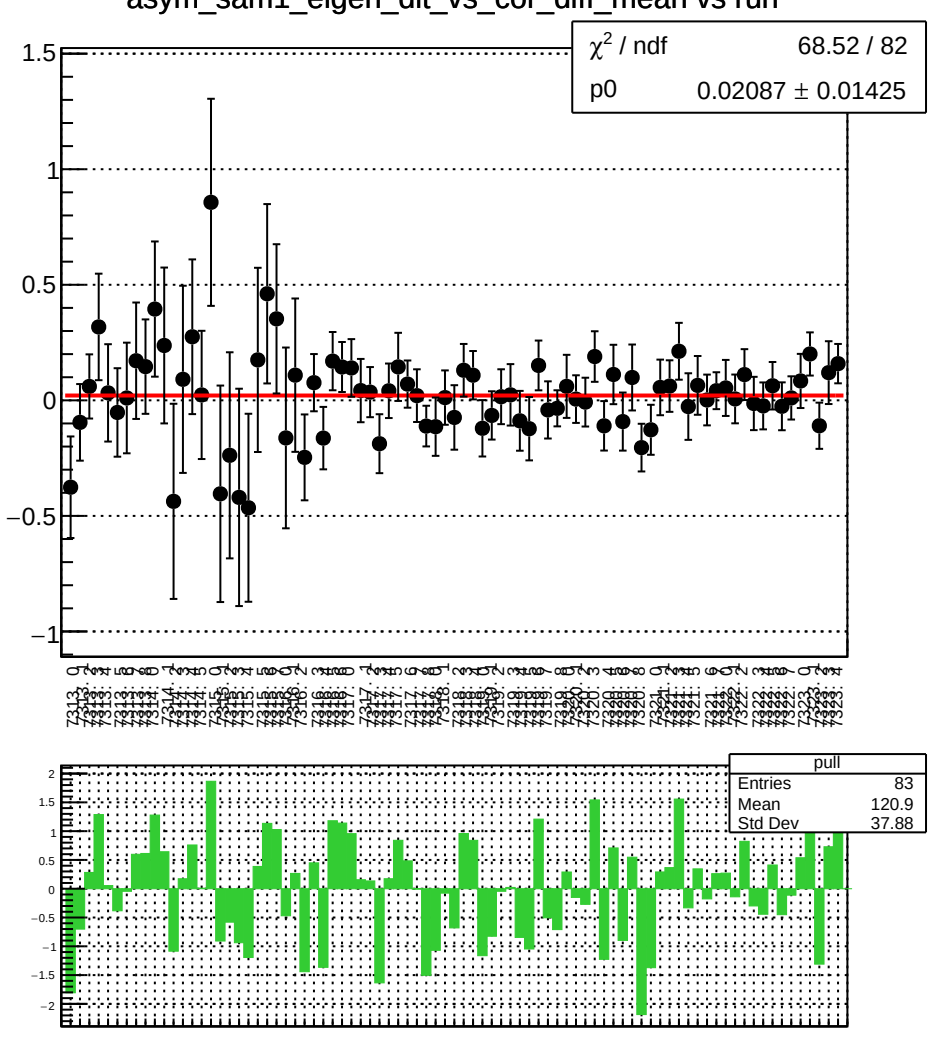

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.52 / 82
p0 0.02088 ± 0.01425
pull
Entries 83
Mean 120.9
Std Dev 37.81

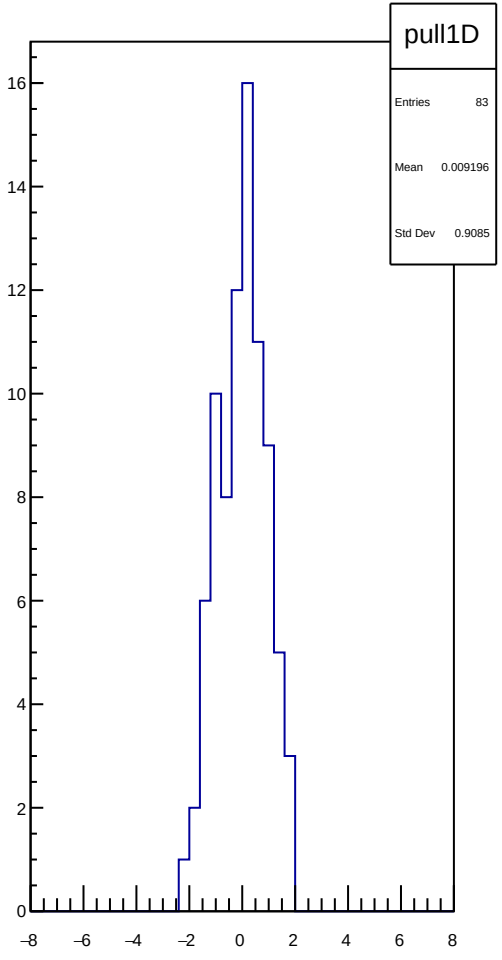

pull1D
Entries 83
Mean 0.009194
Std Dev 0.9085

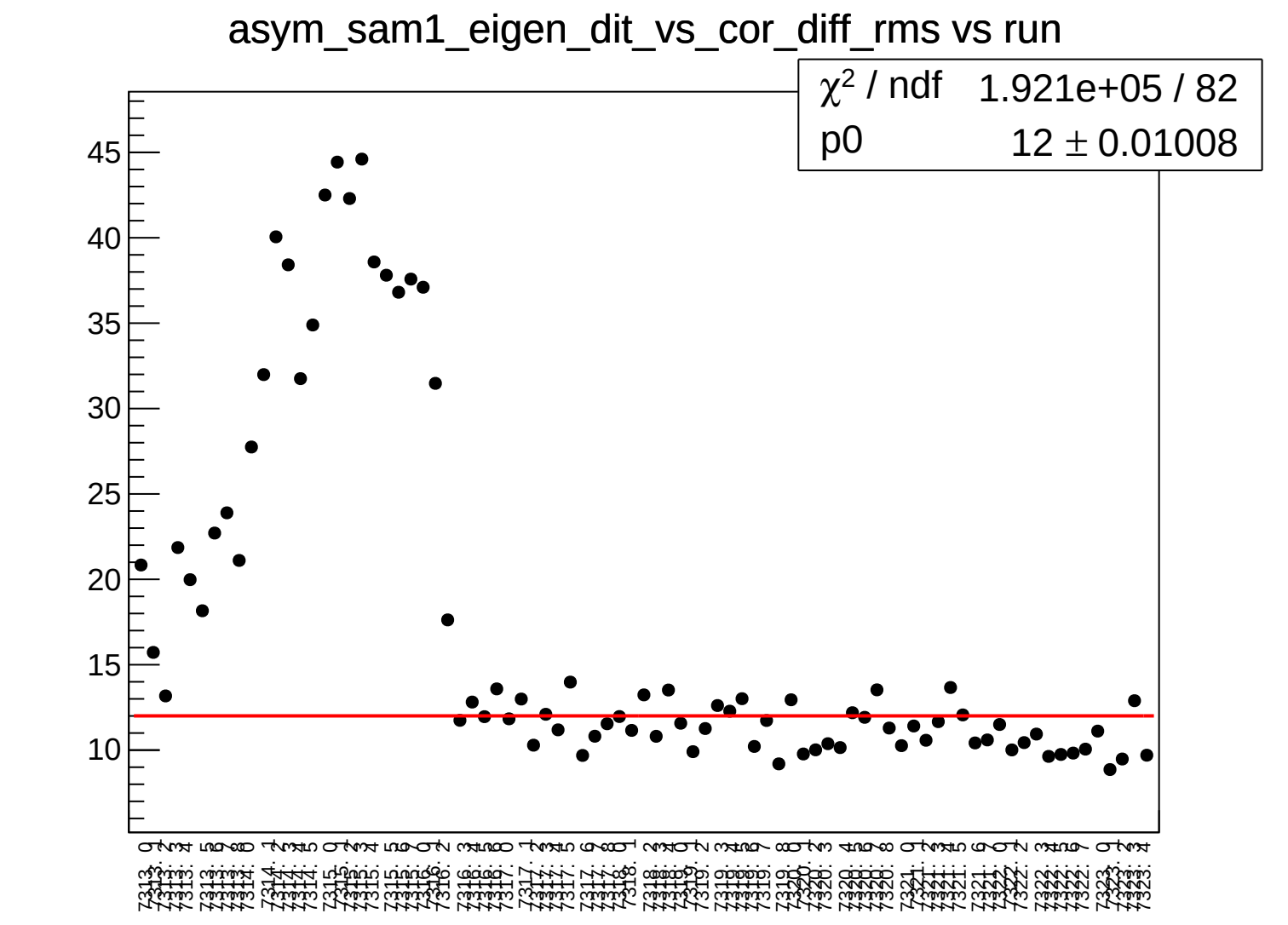

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.921e+05 / 82
p0 12.01 ± 0.01008
45
40
35
30
25
20
15
10

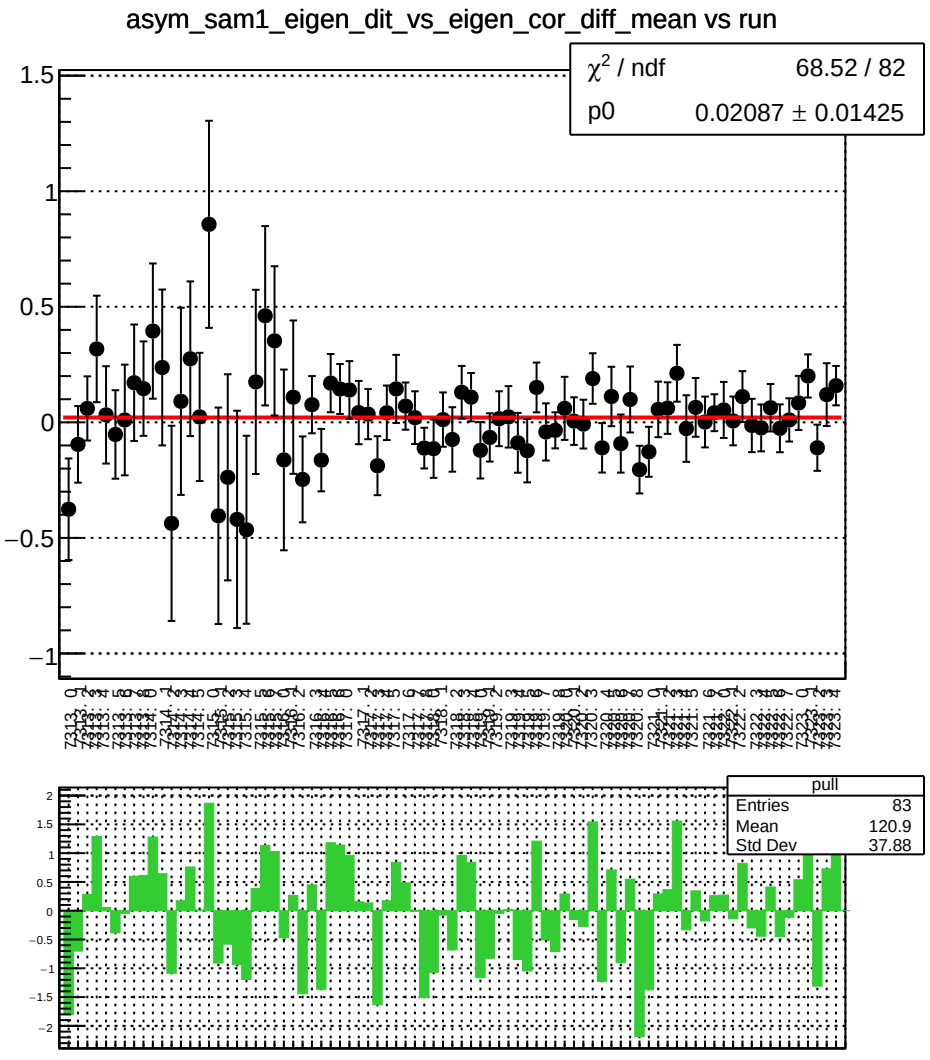

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.98 / 82
p0 −2.623e−06 ± 2.154e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 83
Mean 1781
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean −0.002372
Std Dev 0.9816
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

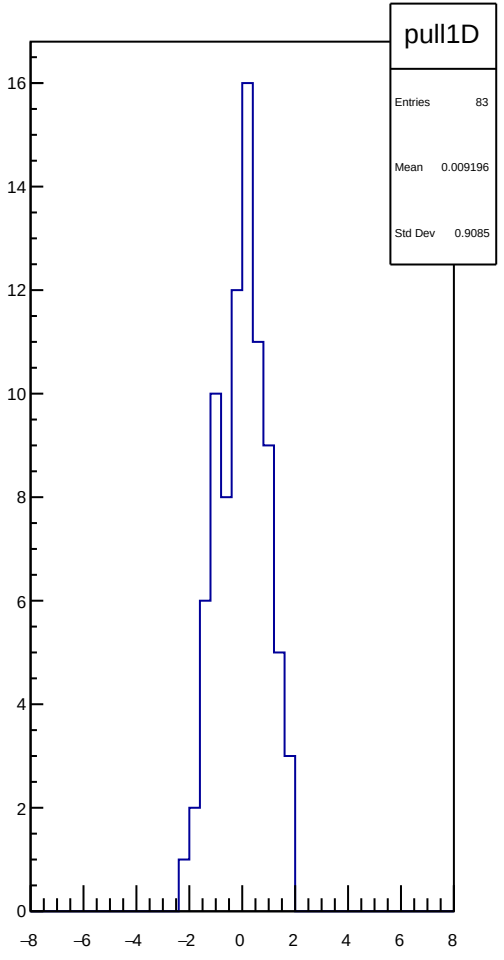

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.118e+04 / 82
p0 0.001927 ± 1.523e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

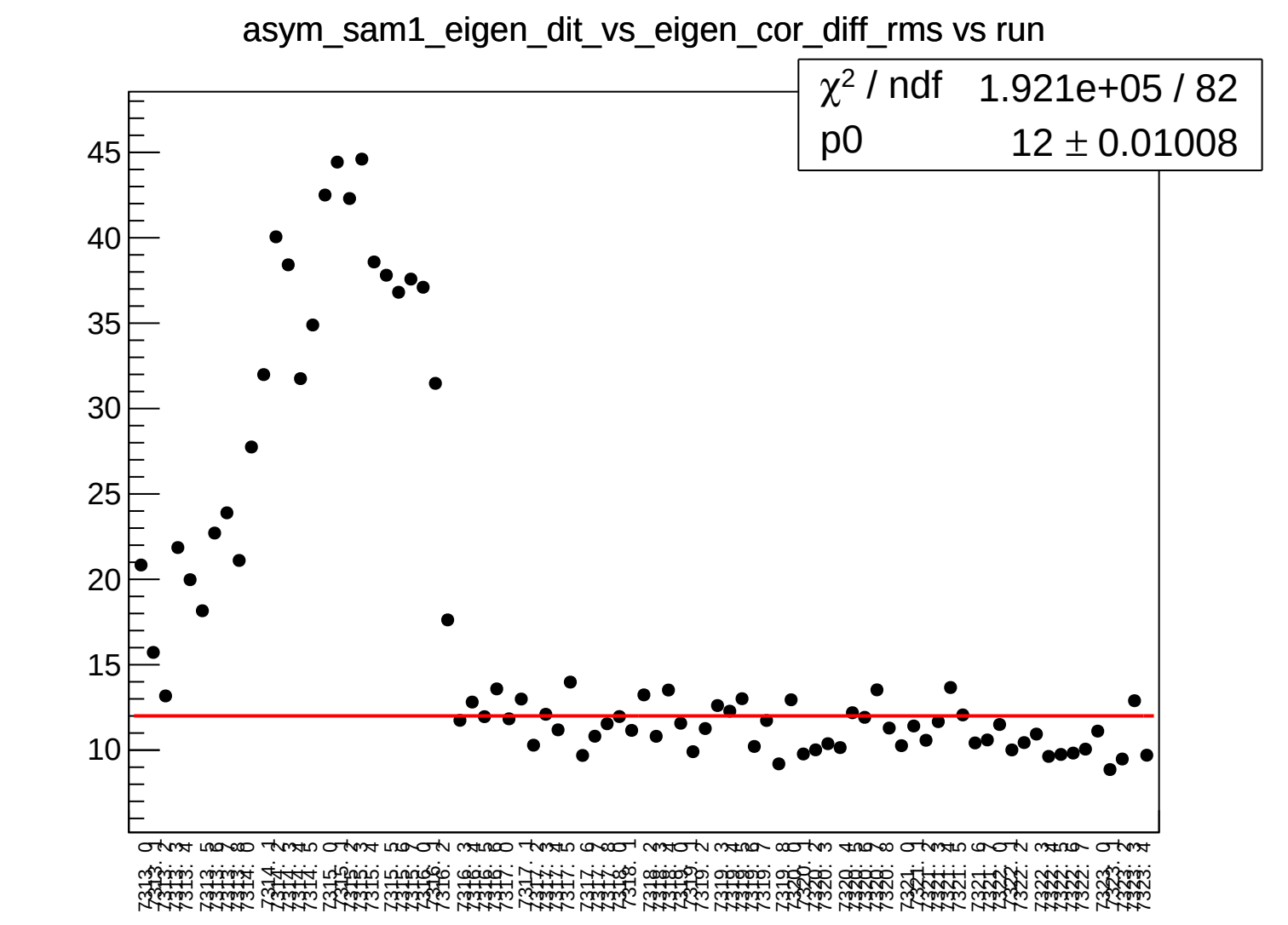

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.52 / 82
p0 0.02087 ± 0.01425
pull
Entries 83
Mean 120.9
Std Dev 37.88

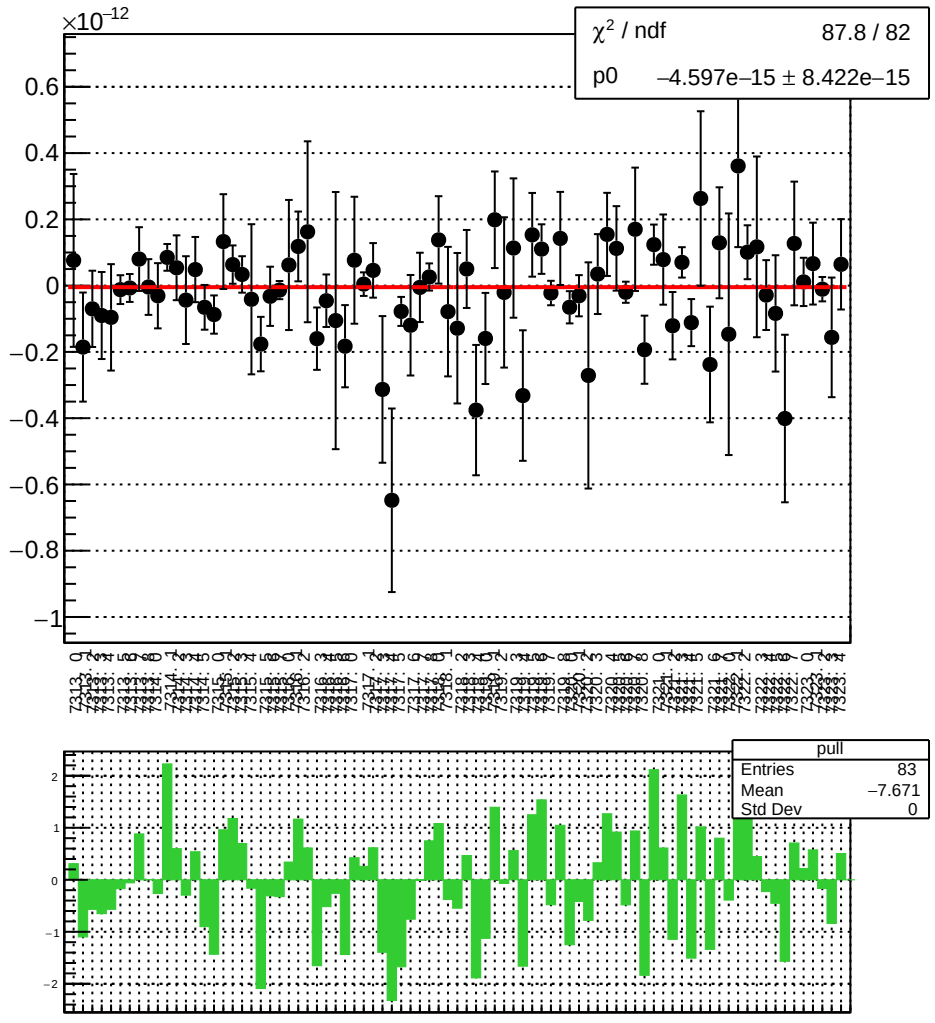

pull1D
Entries 83
Mean 0.009196
Std Dev 0.9085

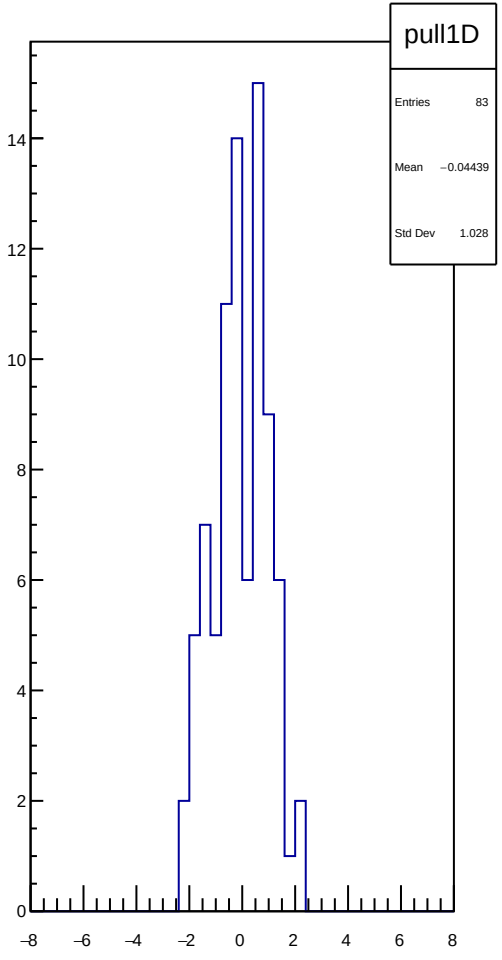

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 82
p0 12 ± 0.01008
45
40
35
30
25
20
15
10

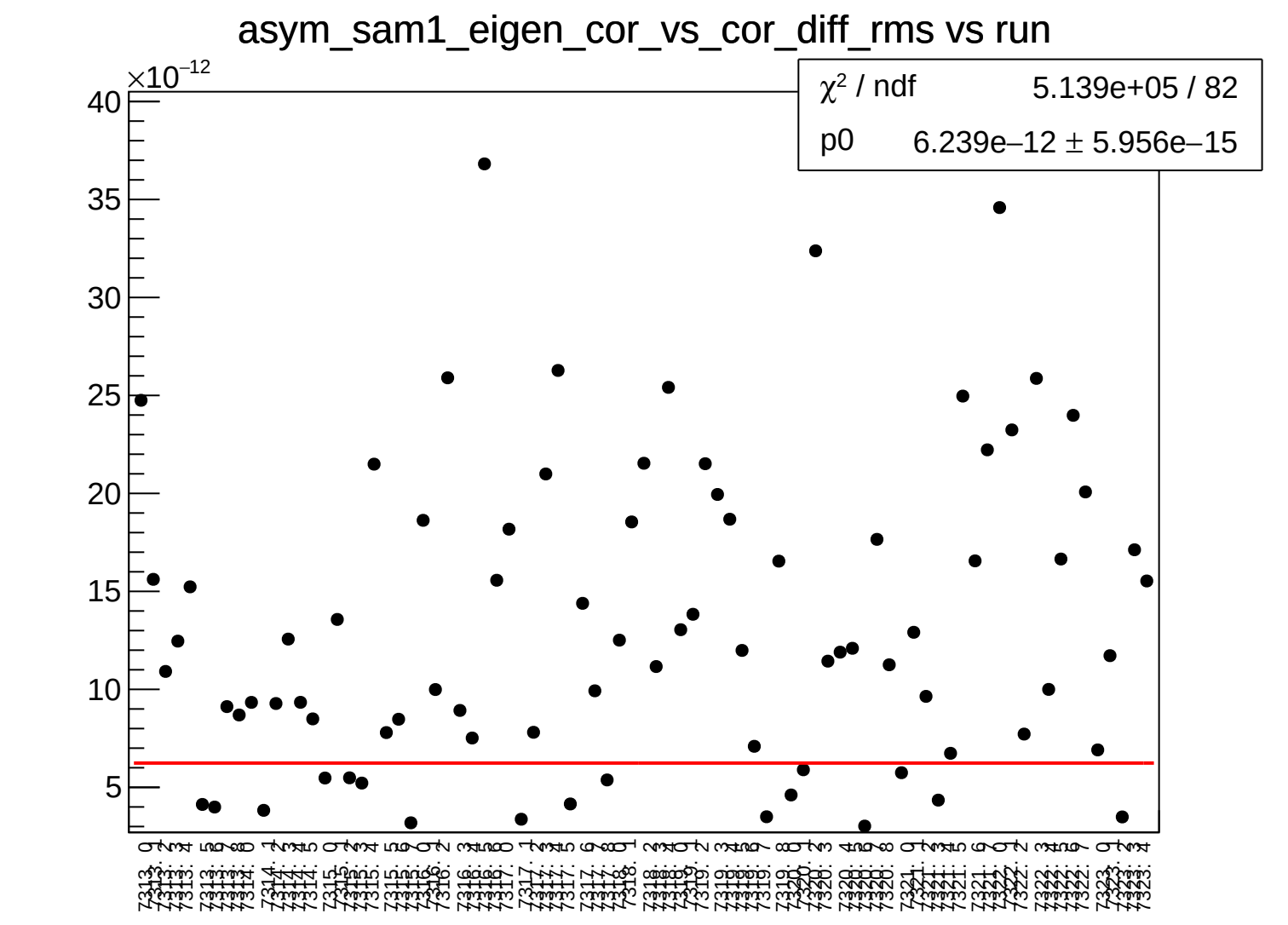

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.52 / 82
p0 0.02087 ± 0.01425
pull
Entries 83
Mean 120.9
Std Dev 37.88

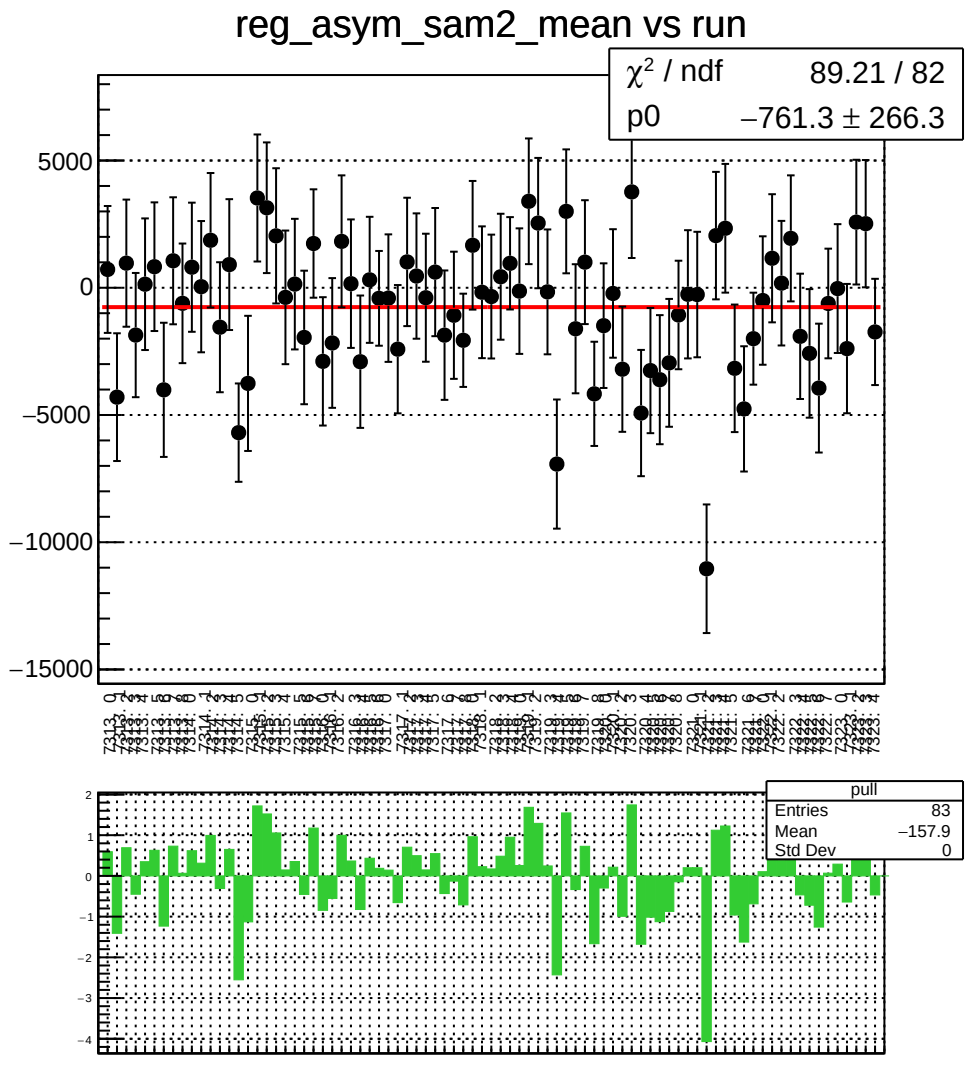

pull1D
Entries 83
Mean 0.009196
Std Dev 0.9085

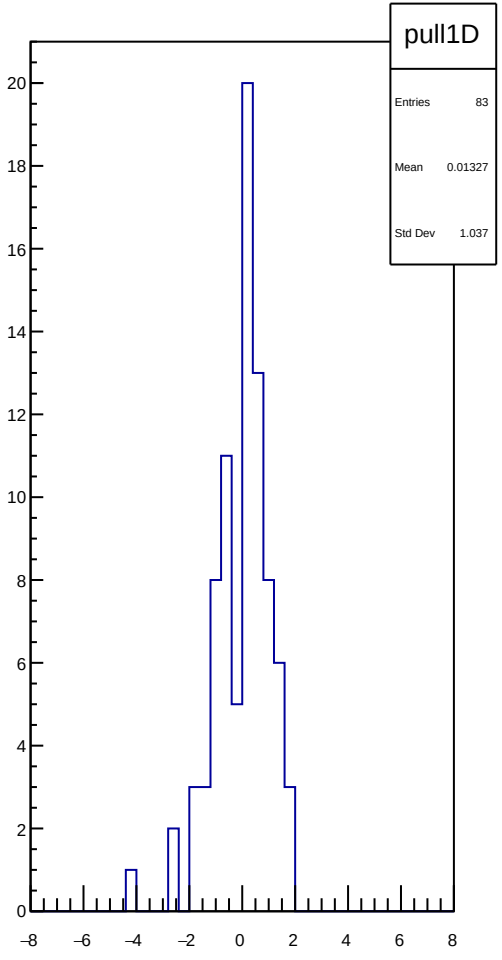

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 82
p0 12 ± 0.01008
45
40
35
30
25
20
15
10

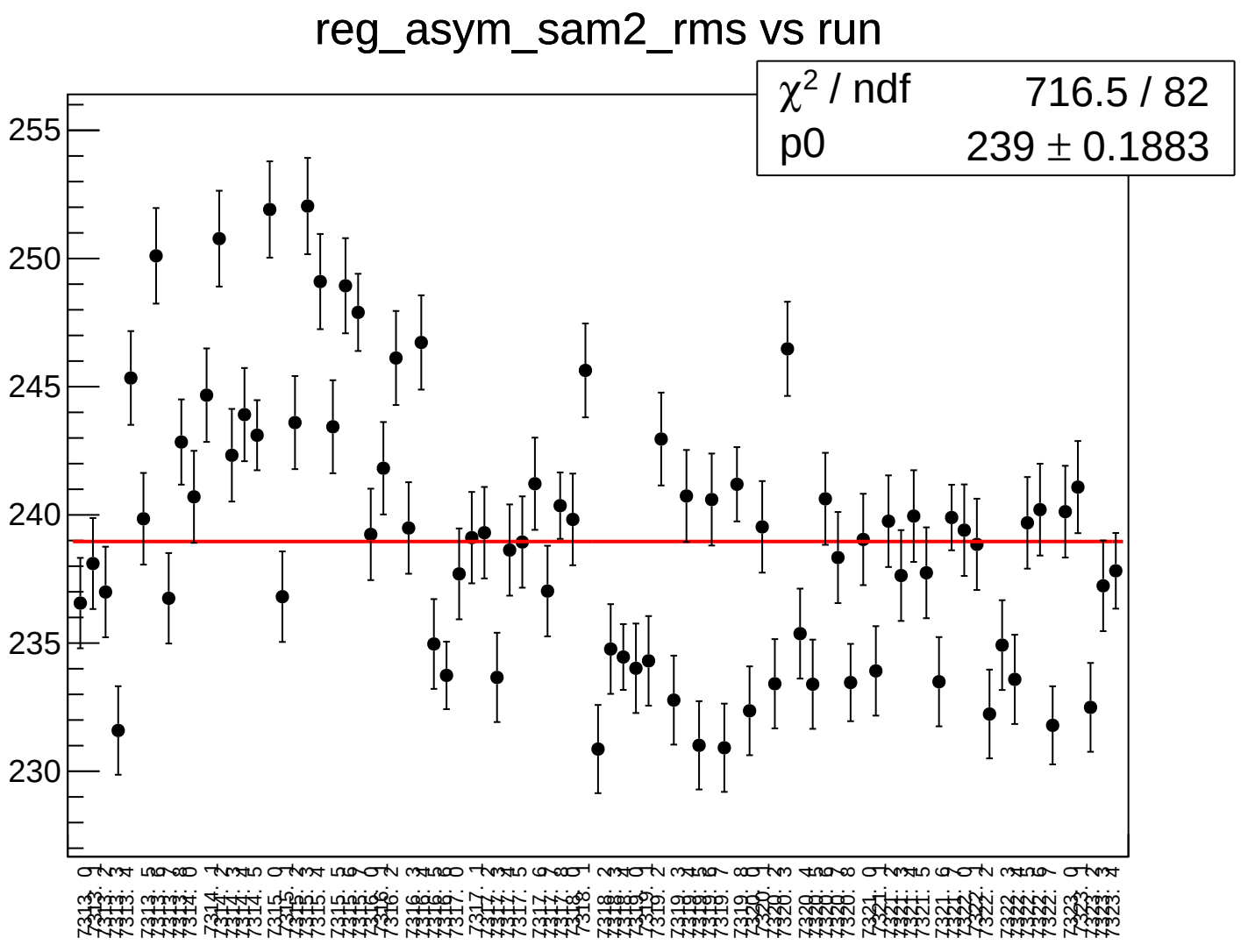

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.8 / 82
p0 −4.597e−15 ± 8.422e−15
pull
Entries 83
Mean −7.671
Std Dev 0

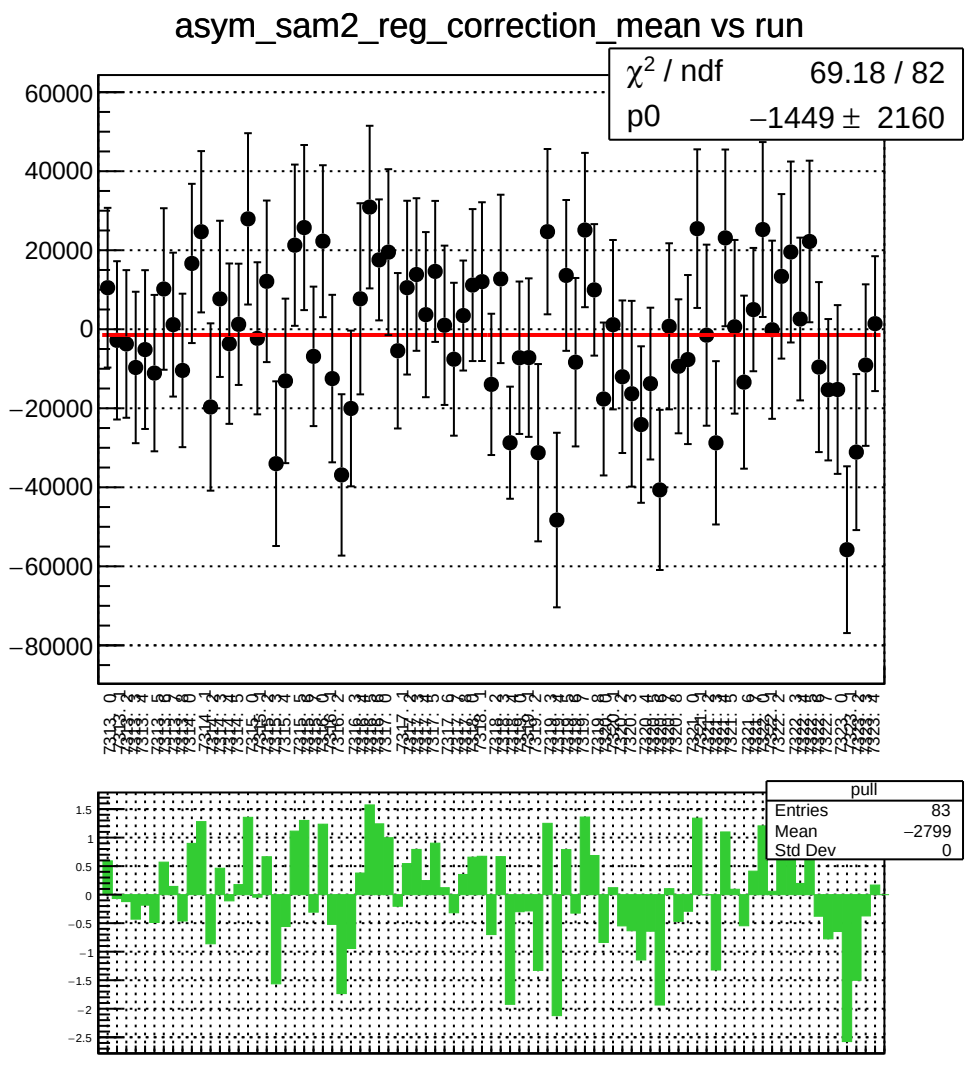

pull1D
Entries 83
Mean −0.04439
Std Dev 1.028

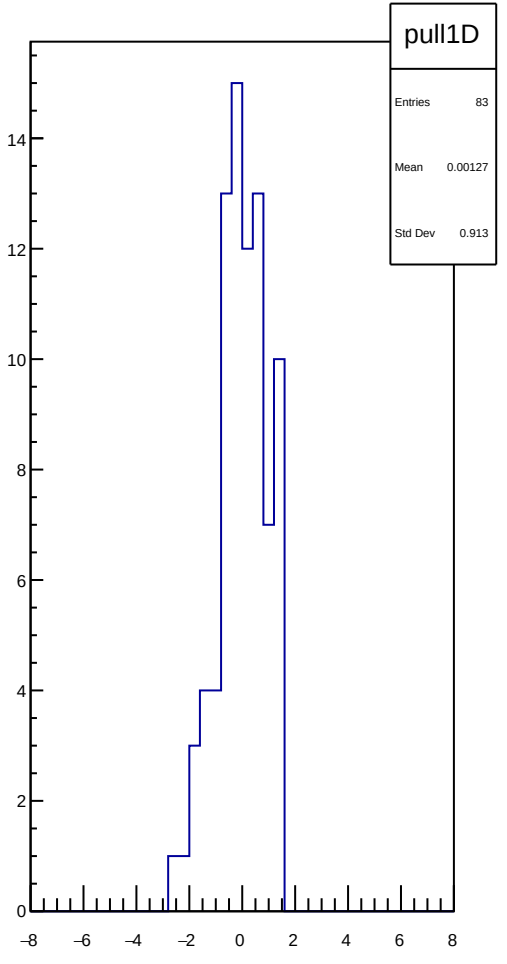

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.139e+05 / 82
p0 6.239e−12 ± 5.956e−15
40
35
30
25
20
15
10
5

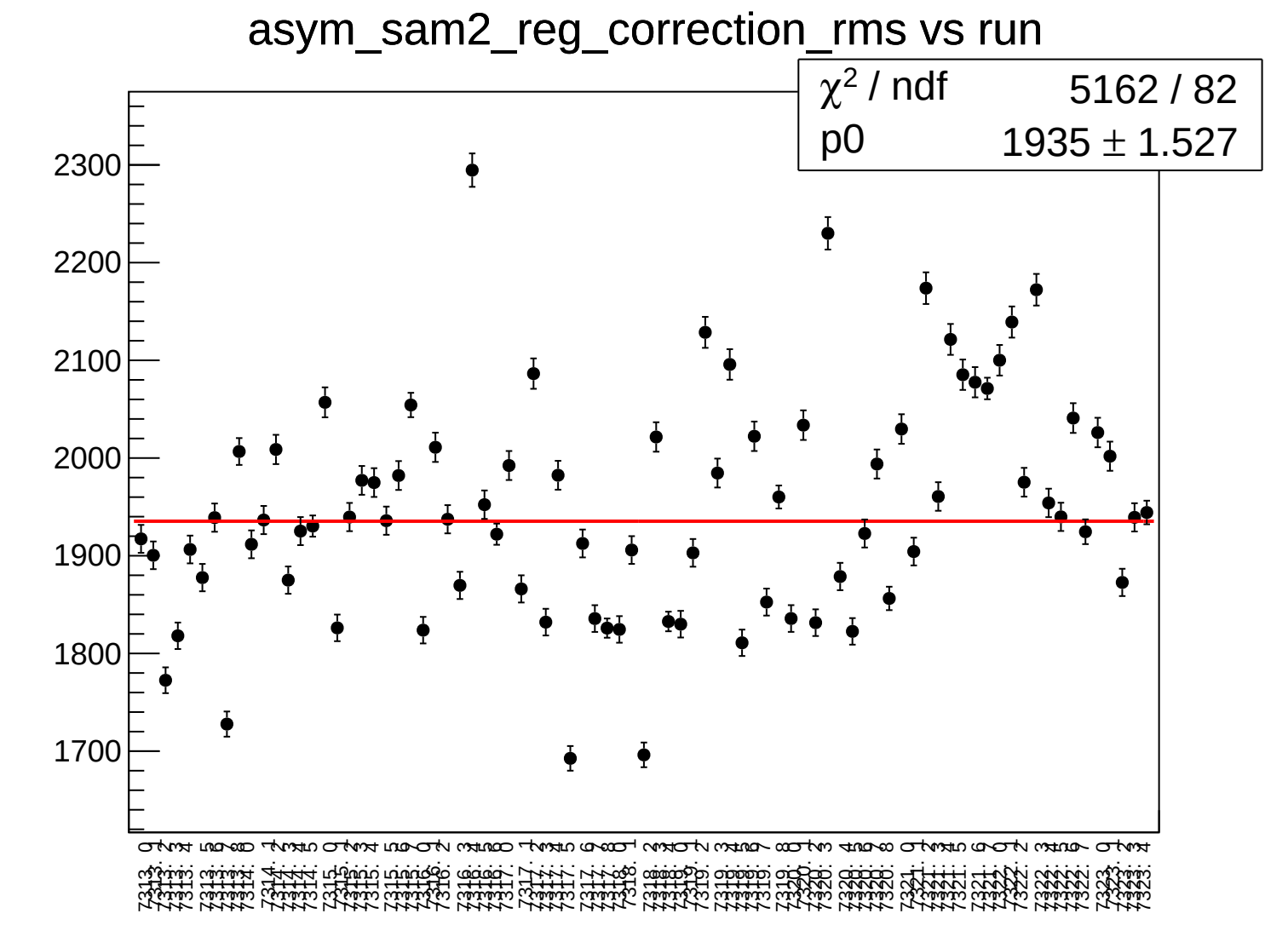

reg_asym_sam2_mean vs run
χ² / ndf 89.21 / 82
p0 −761.3 ± 266.3
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −157.9
Std Dev 0
2
1
0
−1
−2
−3
−4

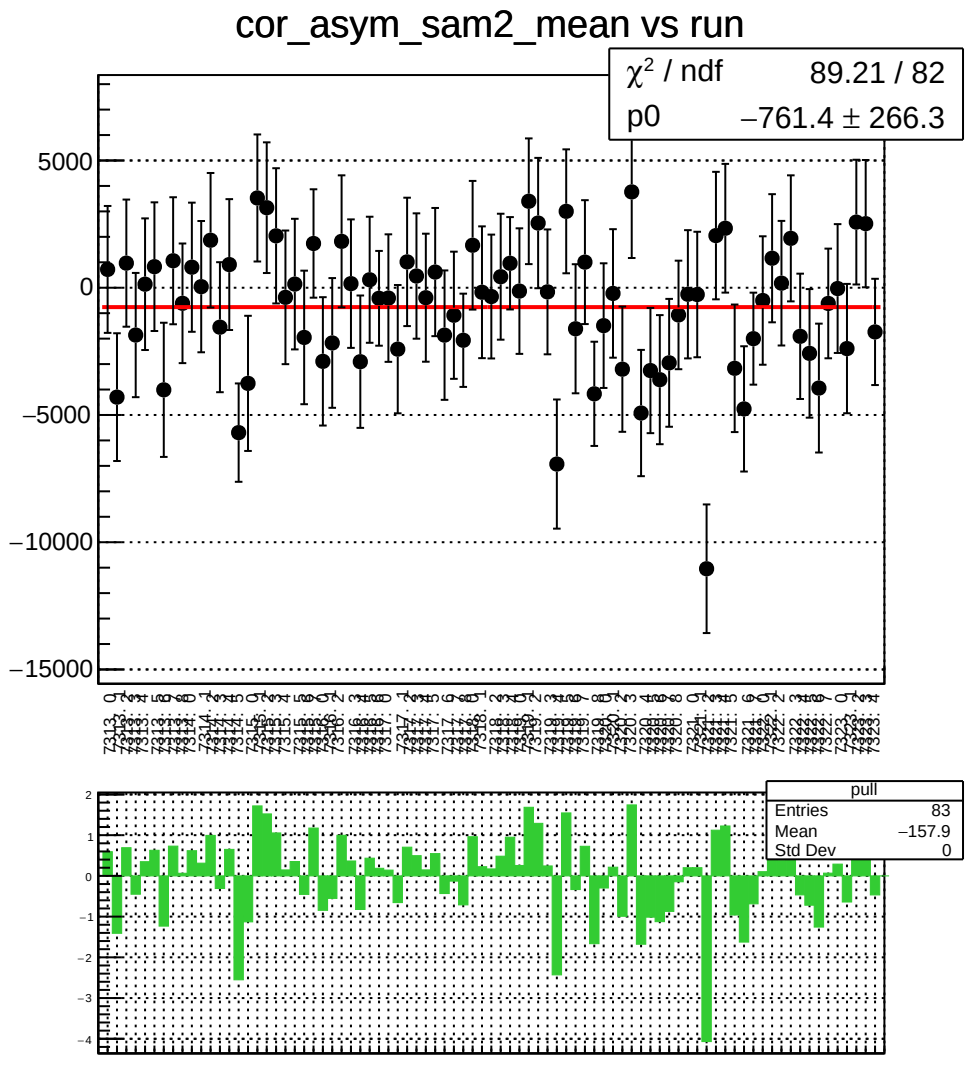

pull1D
Entries 83
Mean 0.01327
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

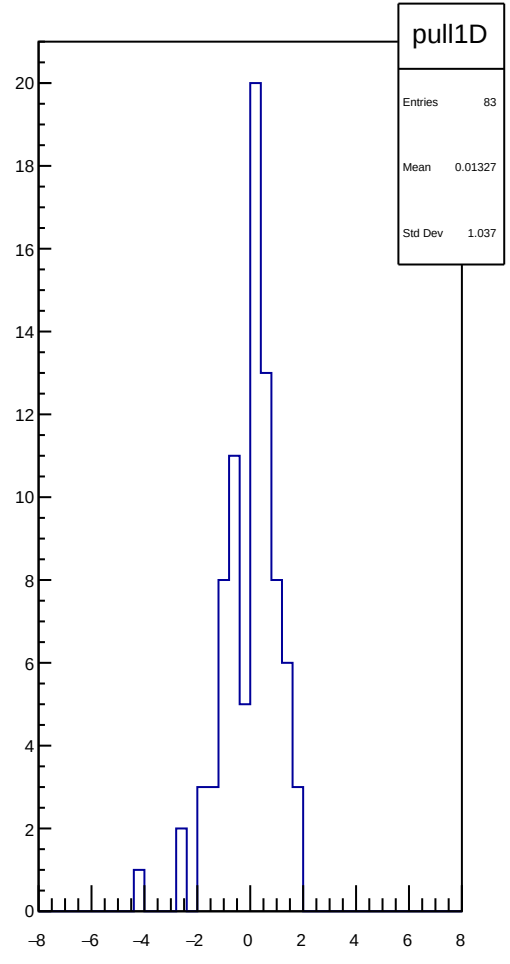

reg_asym_sam2_rms vs run
χ² / ndf 716.5 / 82
p0 239 ± 0.1883
255
250
245
240
235
230

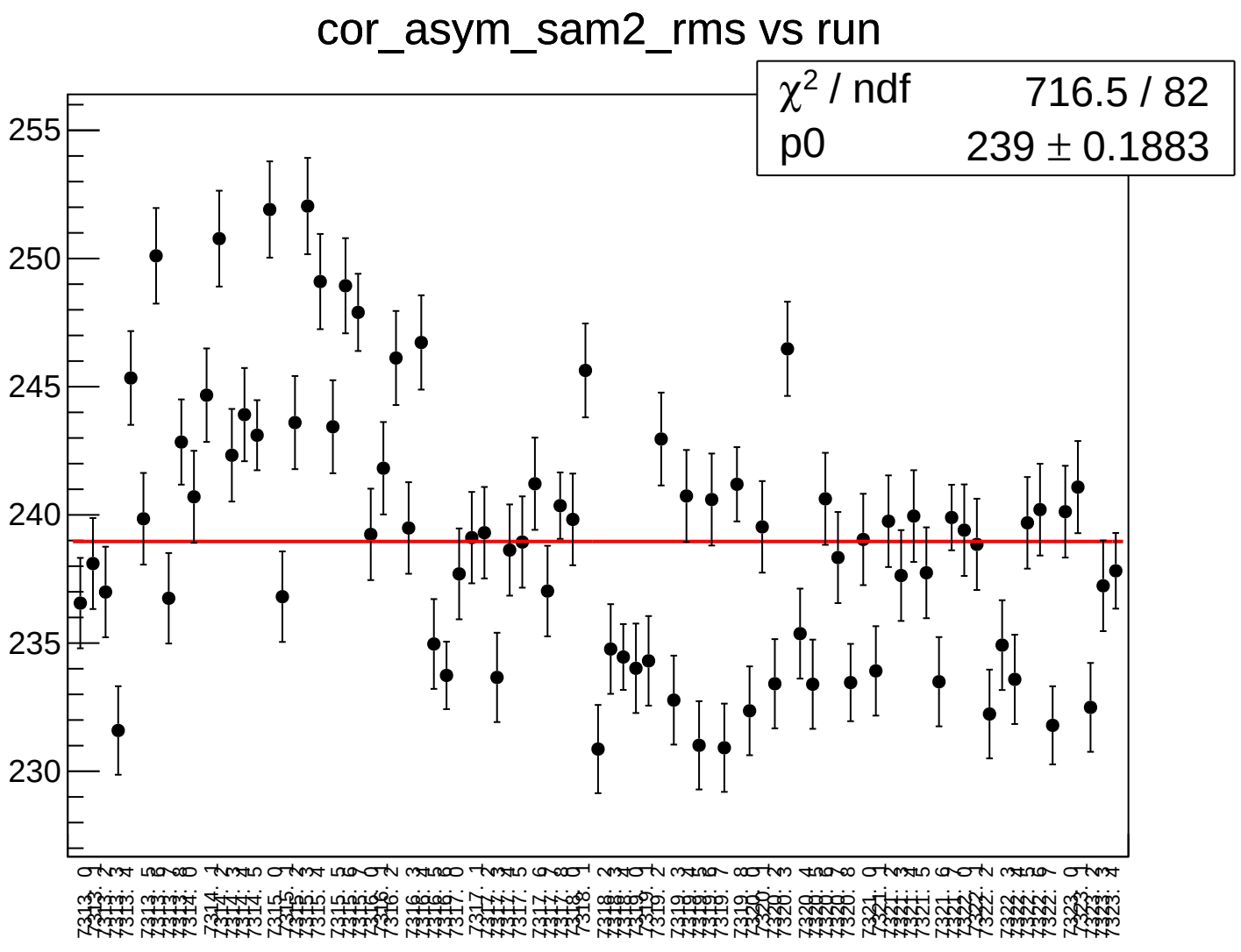

asym_sam2_reg_correction_mean vs run
χ² / ndf 69.18 / 82
p0 −1449 ± 2160
pull
Entries 83
Mean −2799
Std Dev 0

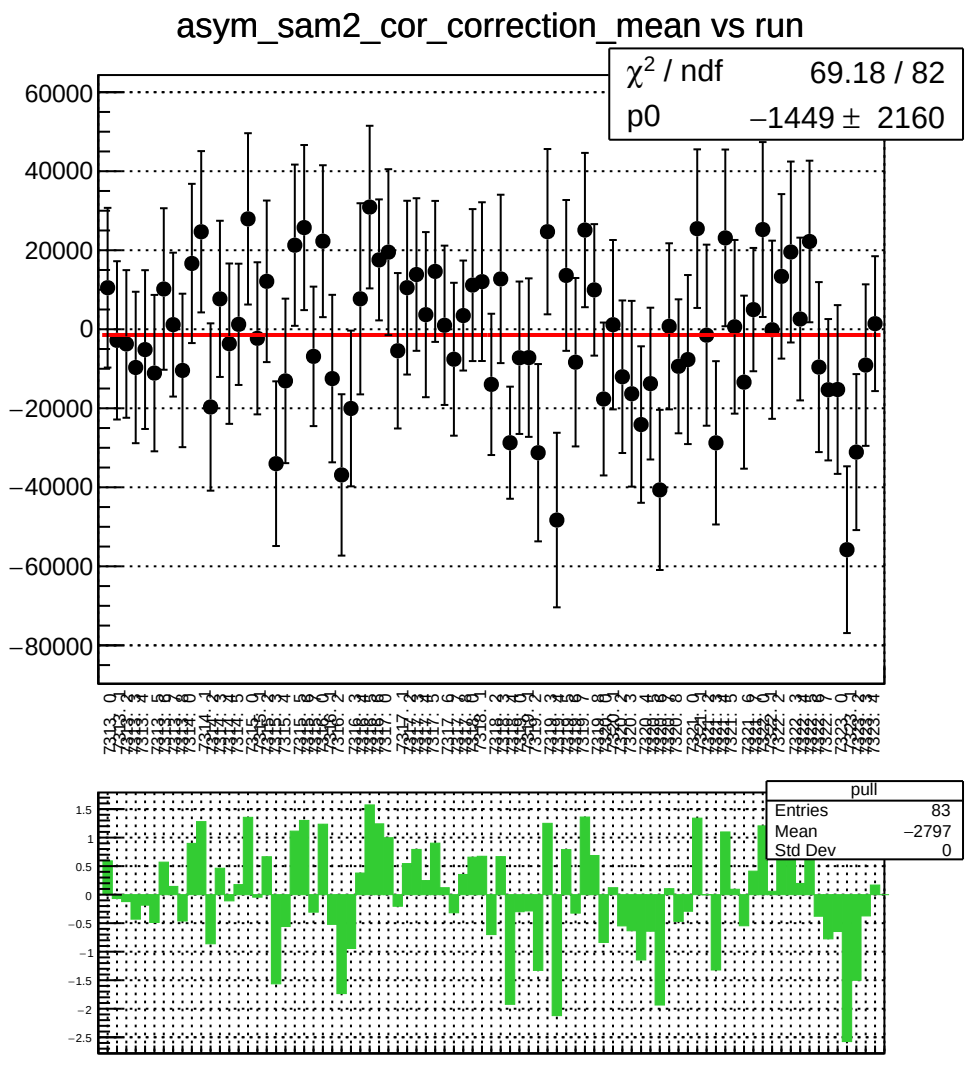

pull1D
Entries 83
Mean 0.00127
Std Dev 0.913

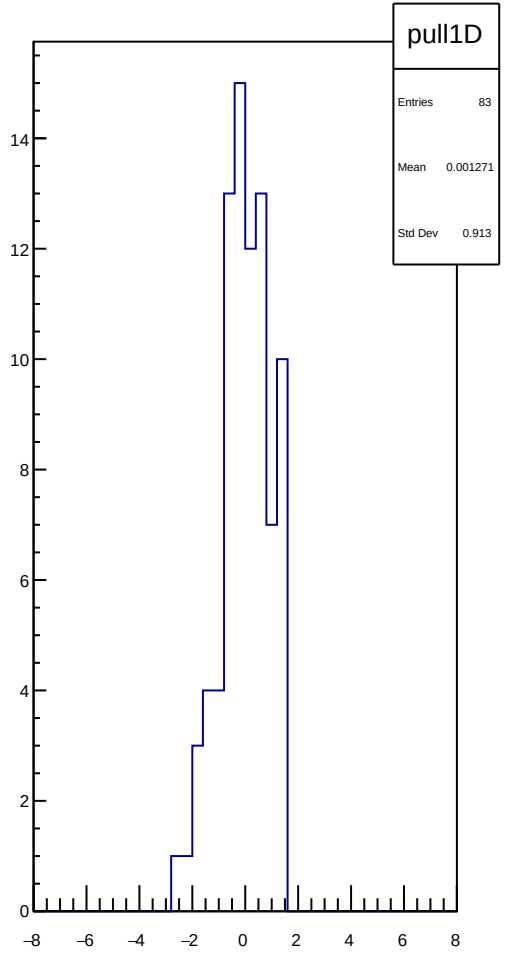

asym_sam2_reg_correction_rms vs run
χ² / ndf 5162 / 82
p0 1935 ± 1.527
2300
2200
2100
2000
1900
1800
1700

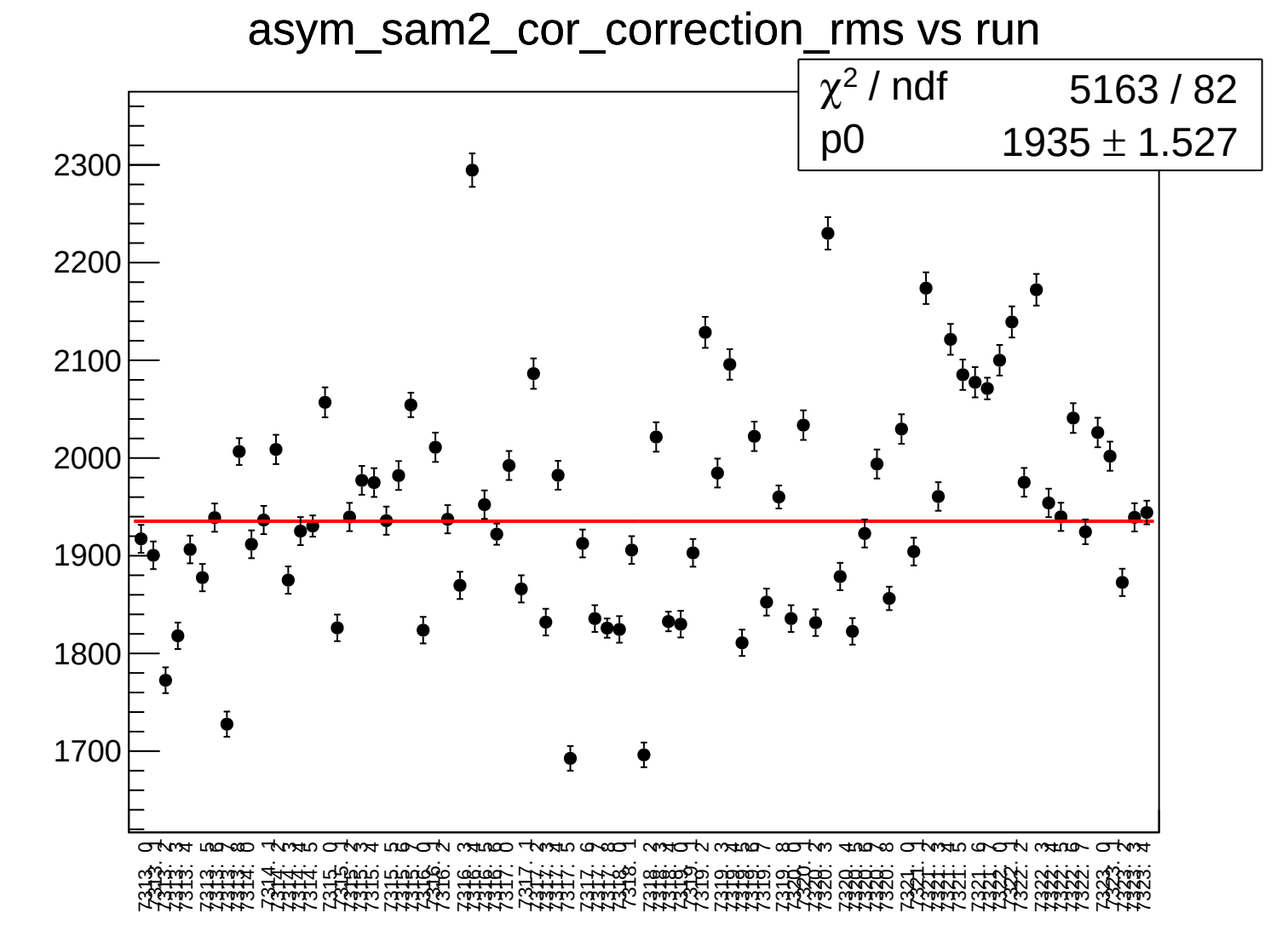

cor_asym_sam2_mean vs run
χ² / ndf 89.21 / 82
p0 −761.4 ± 266.3
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −157.9
Std Dev 0
2
1
0
−1
−2
−3
−4

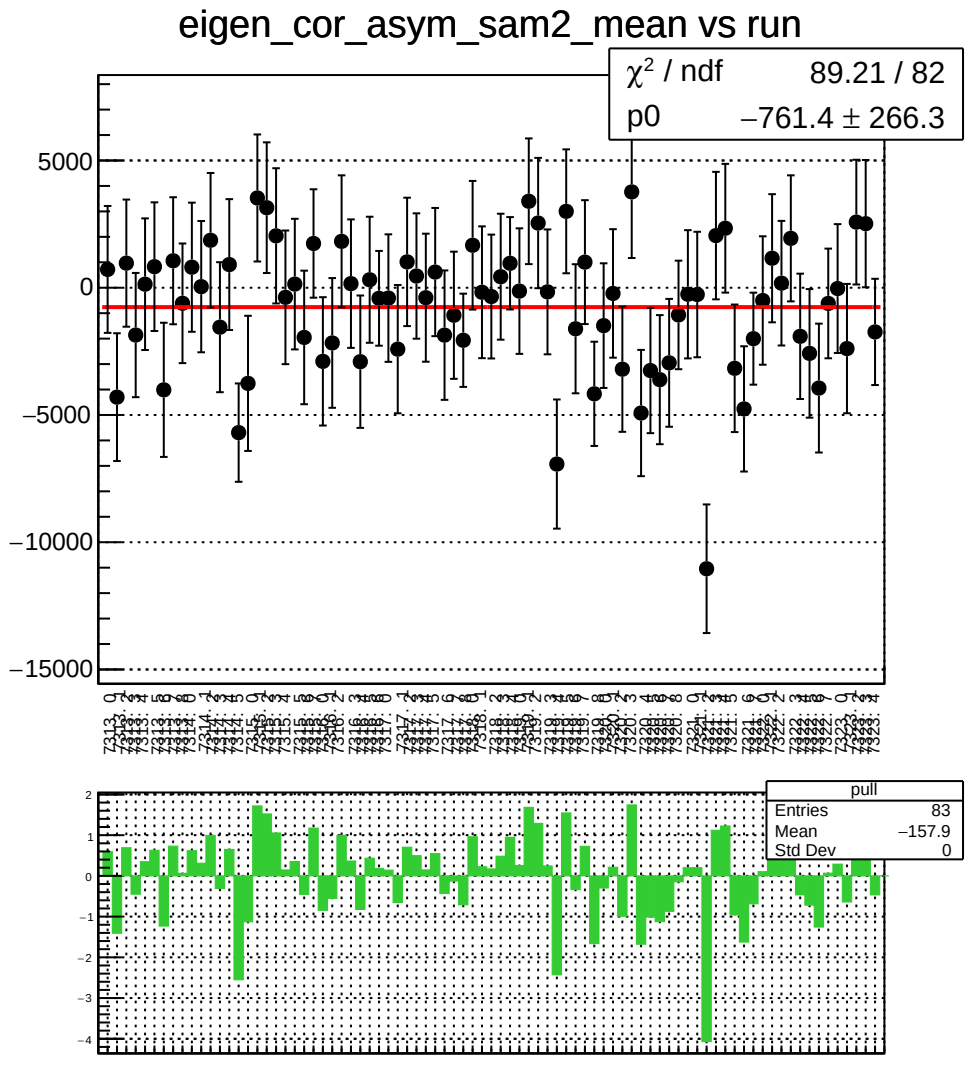

pull1D
Entries 83
Mean 0.01327
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

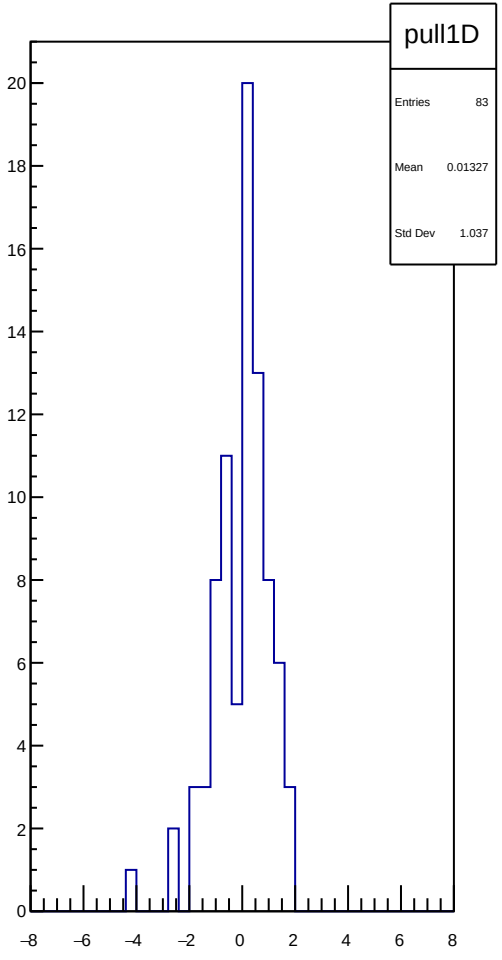

cor_asym_sam2_rms vs run
χ² / ndf 716.5 / 82
p0 239 ± 0.1883
255
250
245
240
235
230

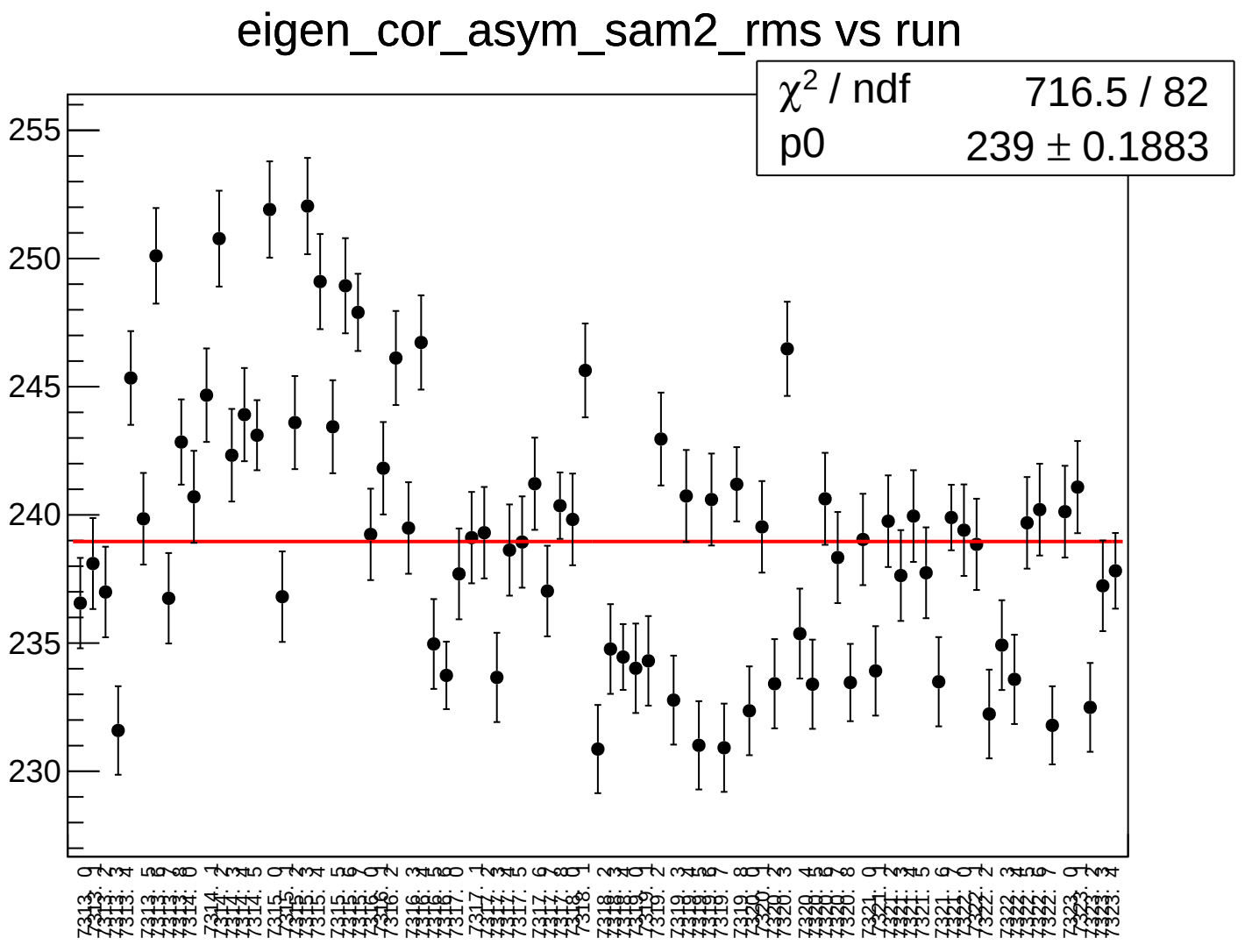

asym_sam2_cor_correction_mean vs run
χ² / ndf 69.18 / 82
p0 −1449 ± 2160
pull
Entries 83
Mean −2797
Std Dev 0

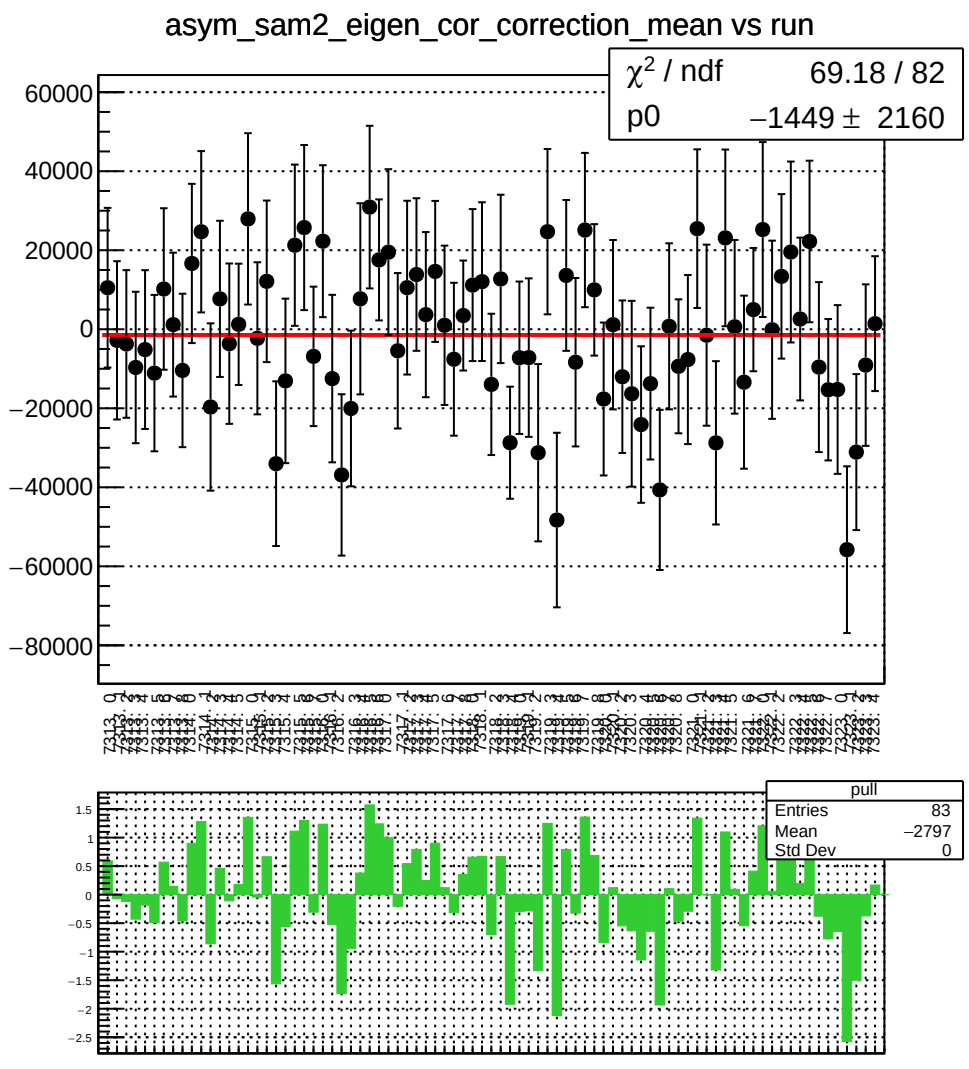

pull1D
Entries 83
Mean 0.001271
Std Dev 0.913

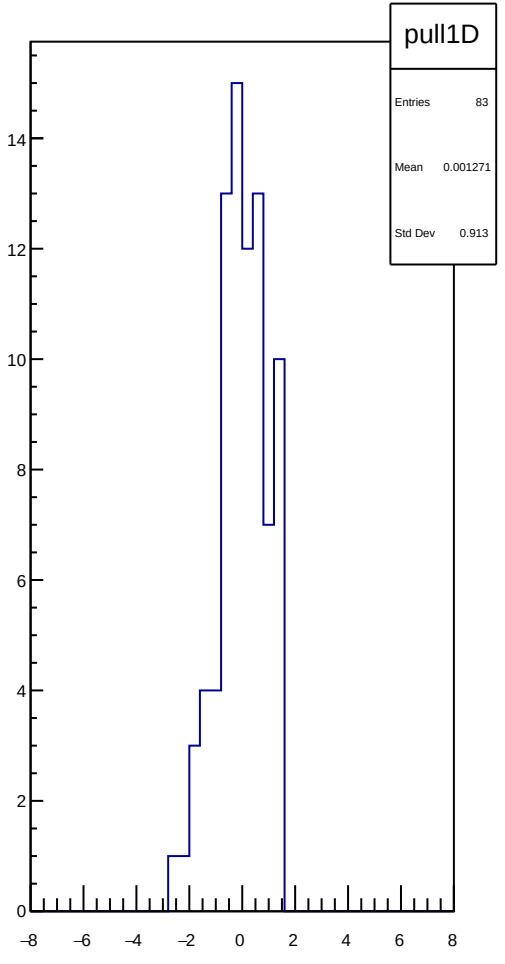

asym_sam2_cor_correction_rms vs run
χ² / ndf 5163 / 82
p0 1935 ± 1.527
2300
2200
2100
2000
1900
1800
1700

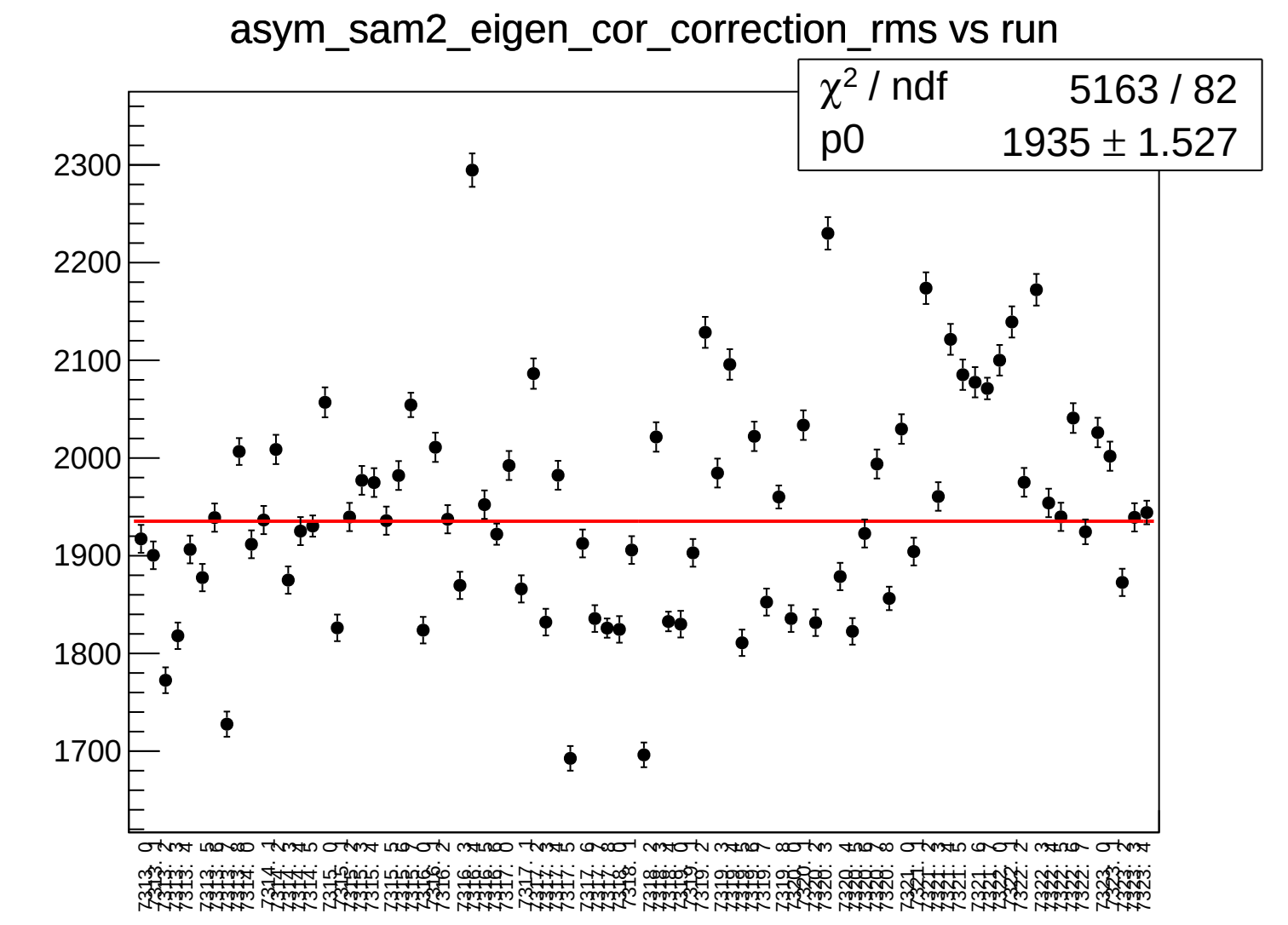

eigen_cor_asym_sam2_mean vs run
χ² / ndf 89.21 / 82
p0 −761.4 ± 266.3
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −157.9
Std Dev 0
2
1
0
−1
−2
−3
−4

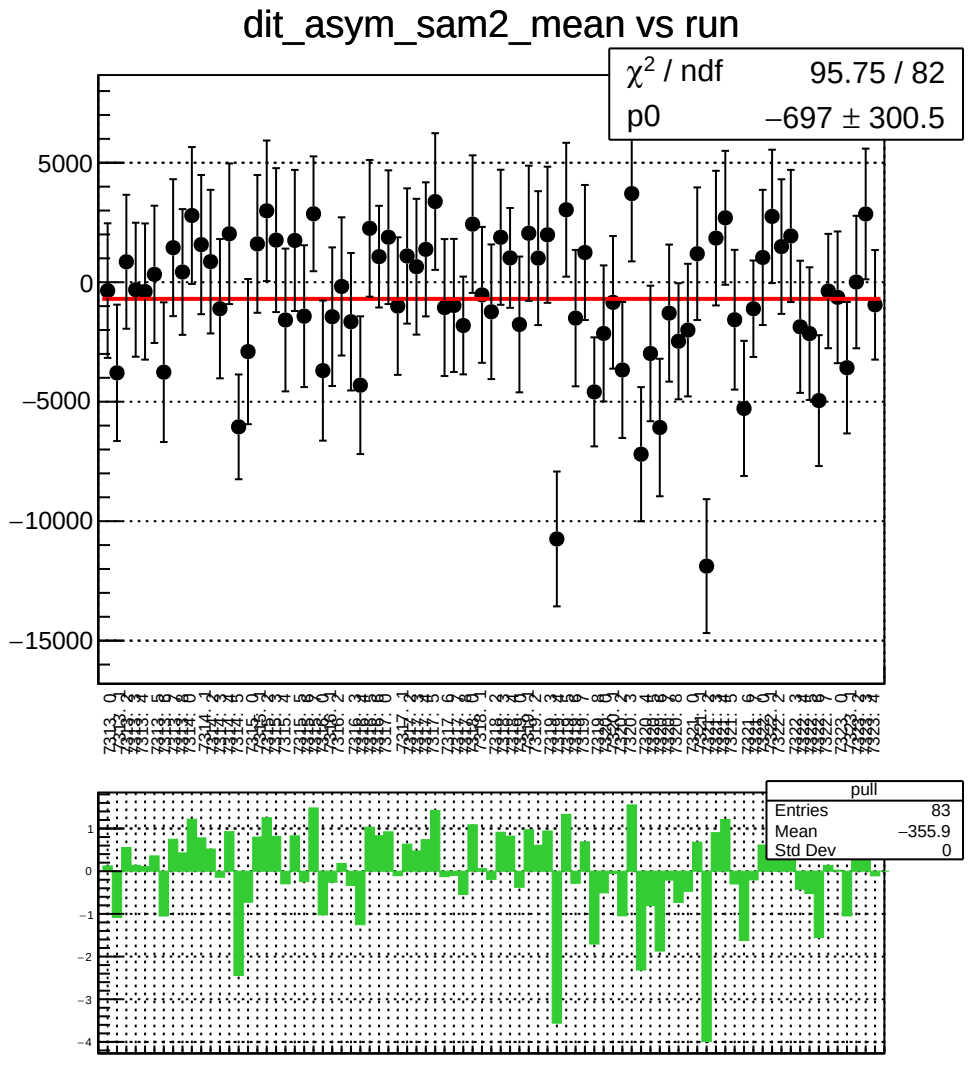

pull1D
Entries 83
Mean 0.01327
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

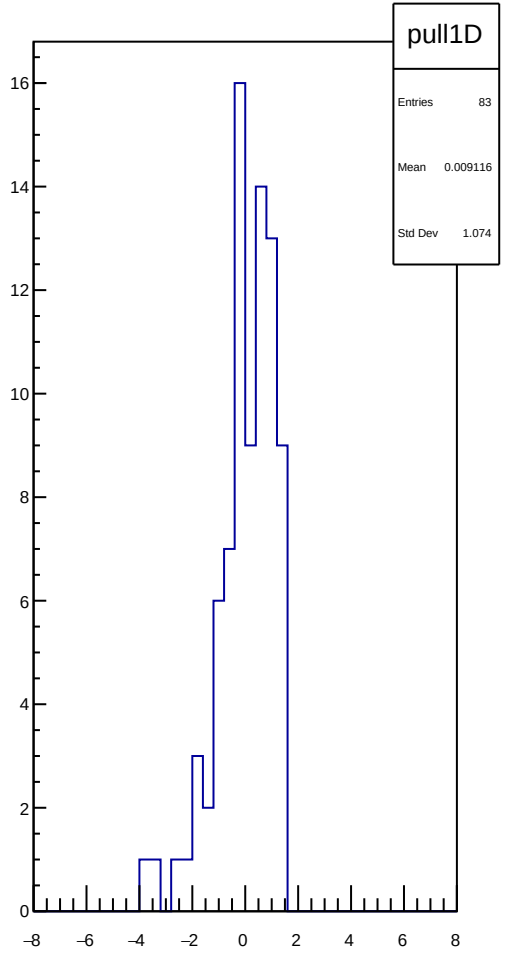

eigen_cor_asym_sam2_rms vs run
χ² / ndf 716.5 / 82
p0 239 ± 0.1883
255
250
245
240
235
230

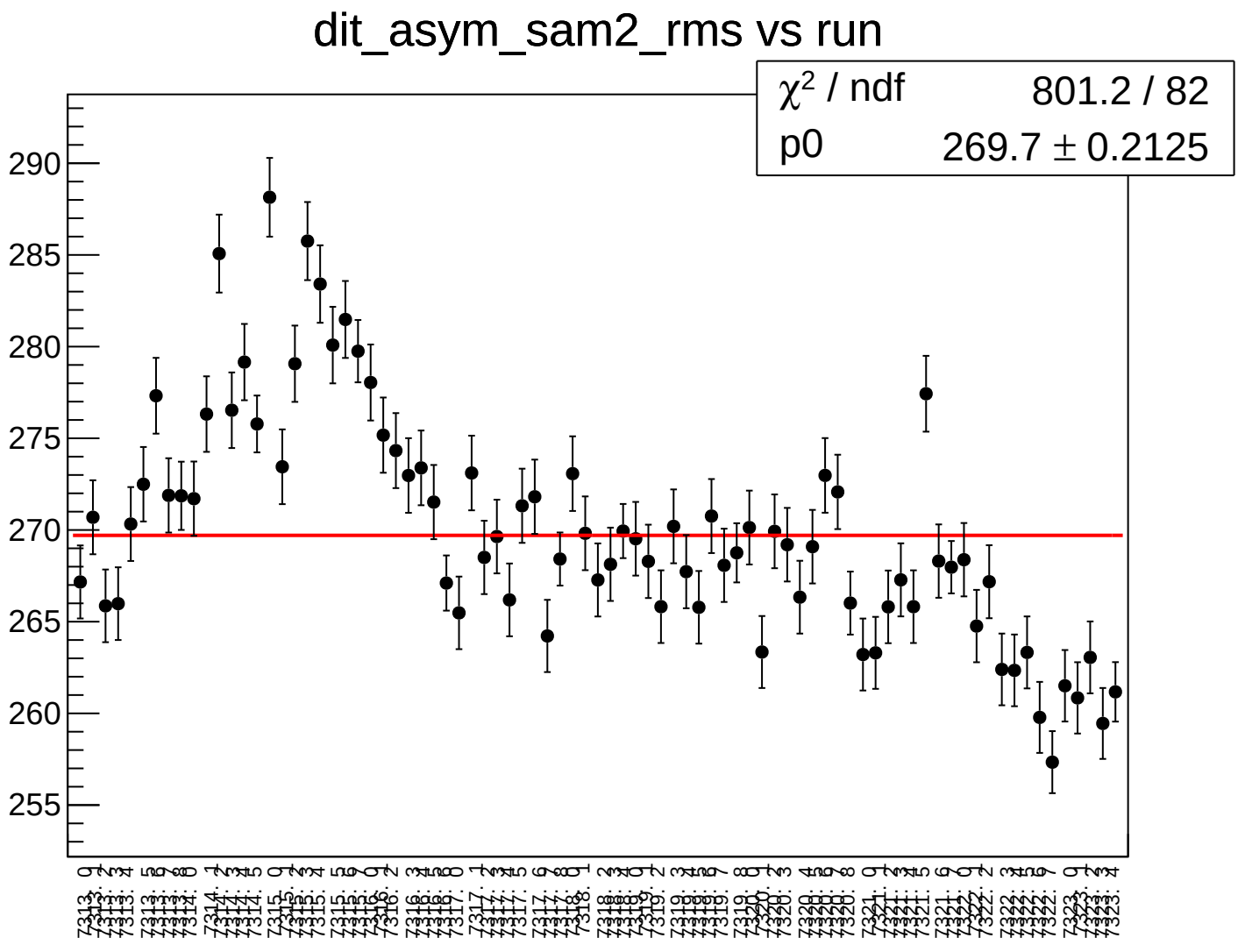

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 69.18 / 82
p0 −1449 ± 2160
pull
Entries 83
Mean −2797
Std Dev 0

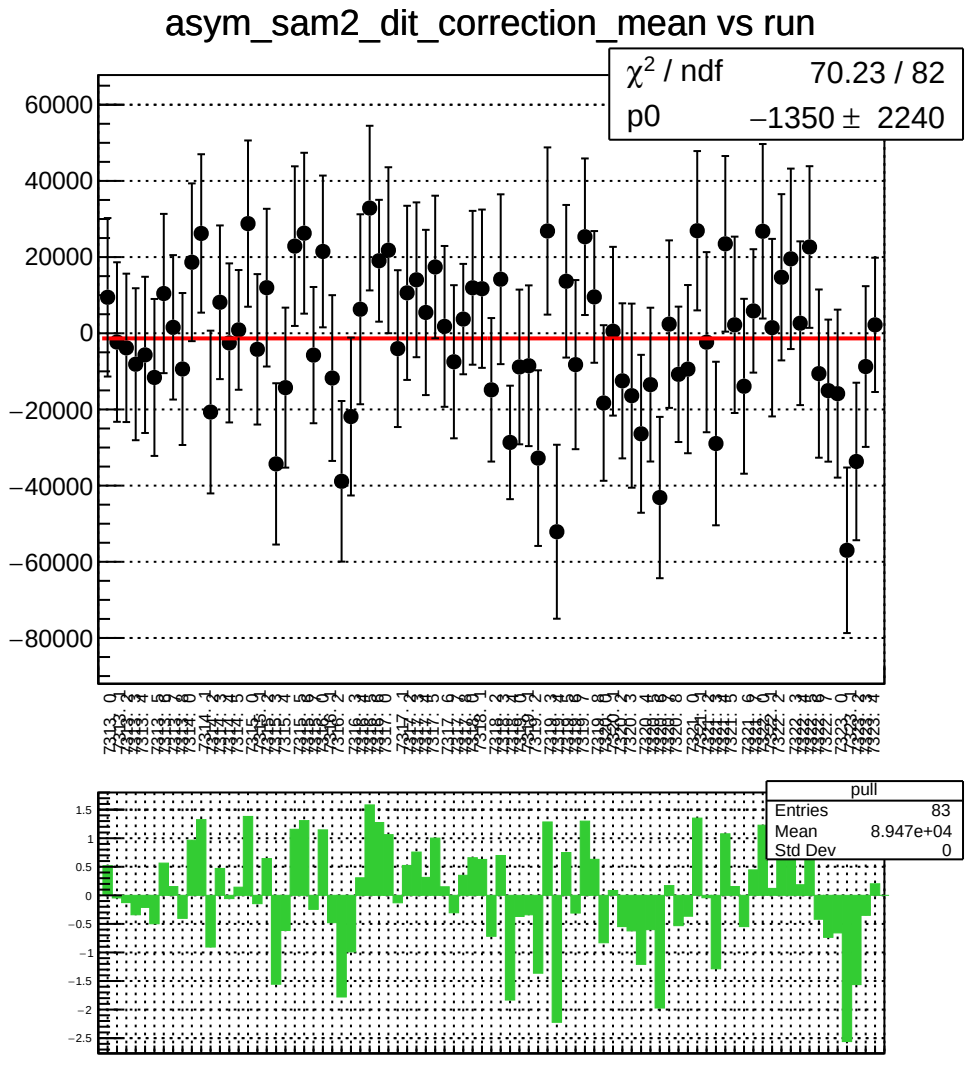

pull1D
Entries 83
Mean 0.001271
Std Dev 0.913

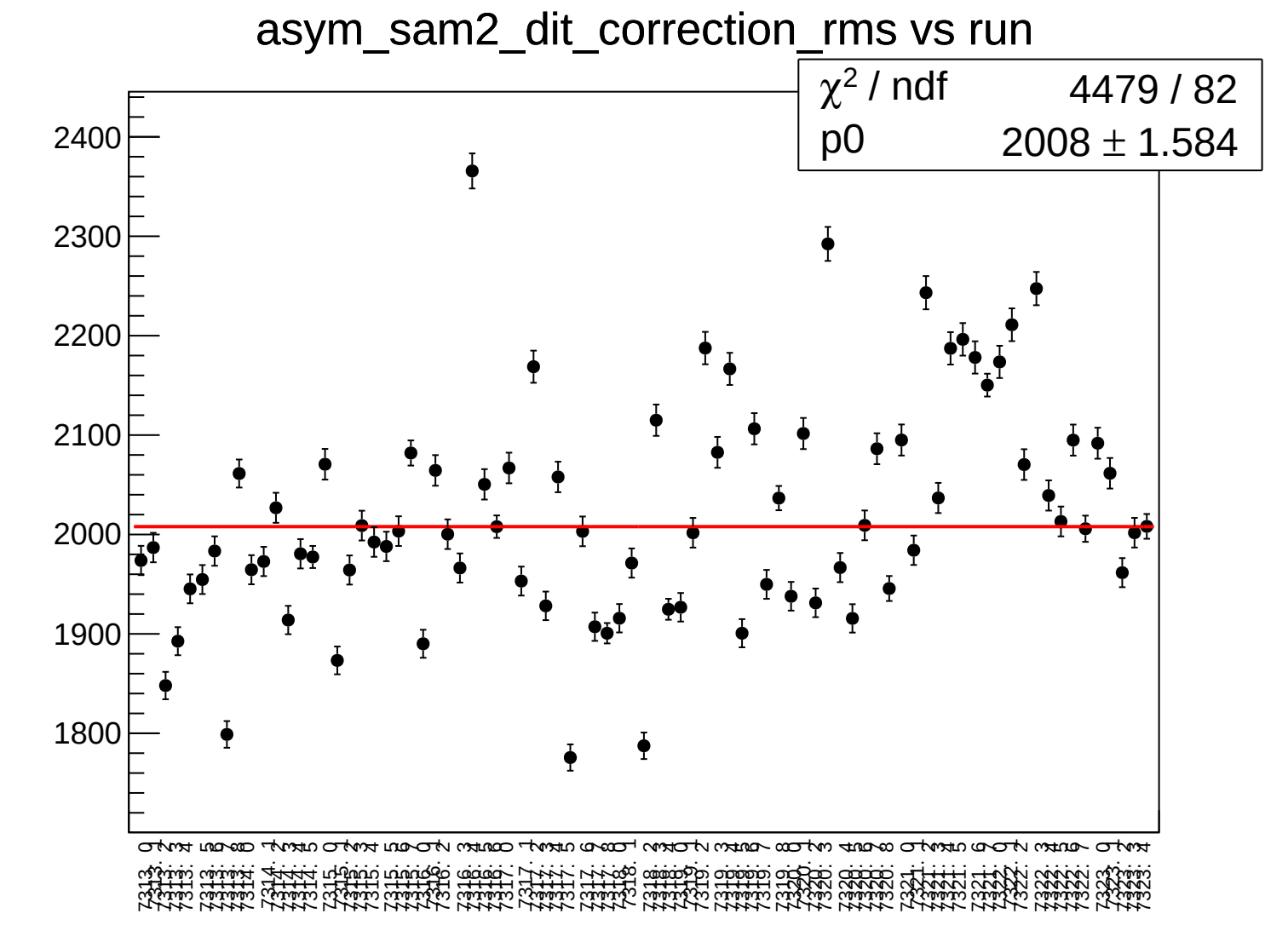

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 5163 / 82
p0 1935 ± 1.527
2300
2200
2100
2000
1900
1800
1700

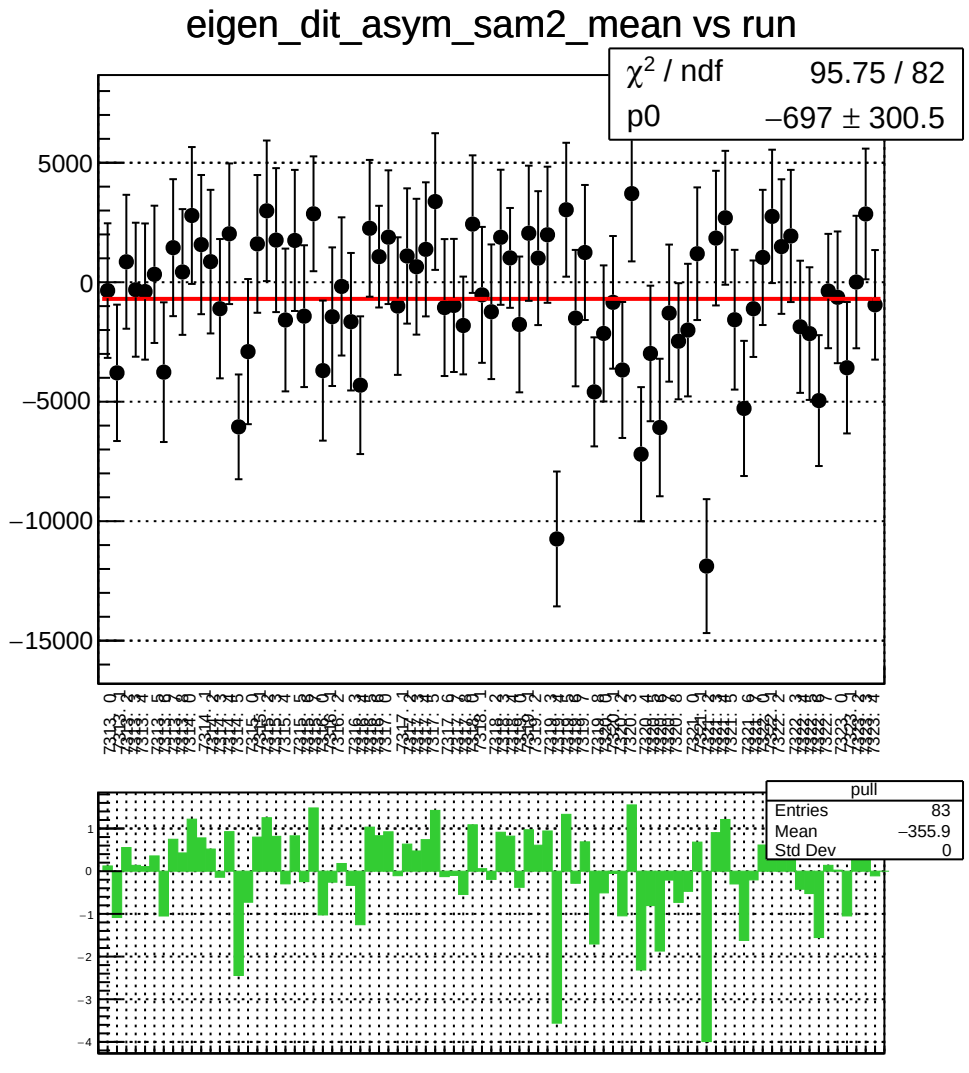

dit_asym_sam2_mean vs run
χ² / ndf 95.75 / 82
p0 −697 ± 300.5
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −355.9
Std Dev 0
1
0
−1
−2
−3
−4

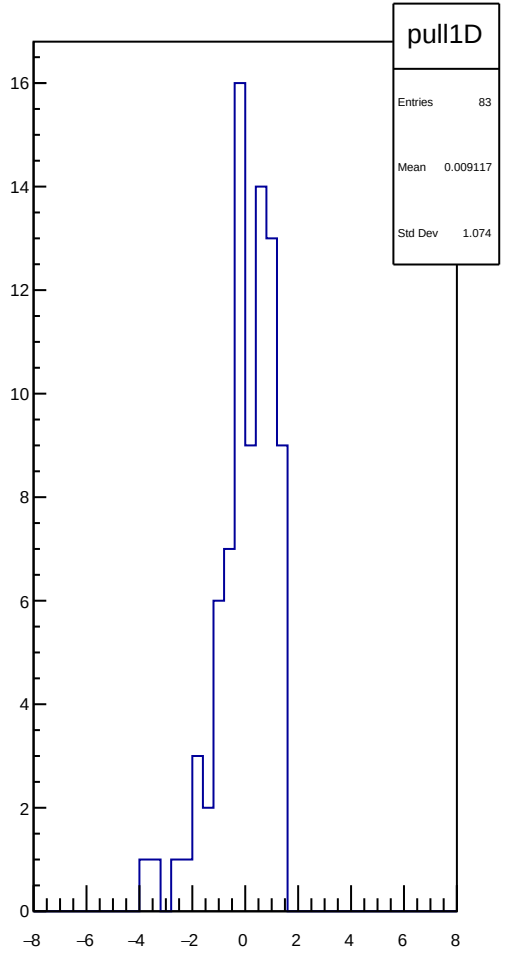

pull1D
Entries 83
Mean 0.009116
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

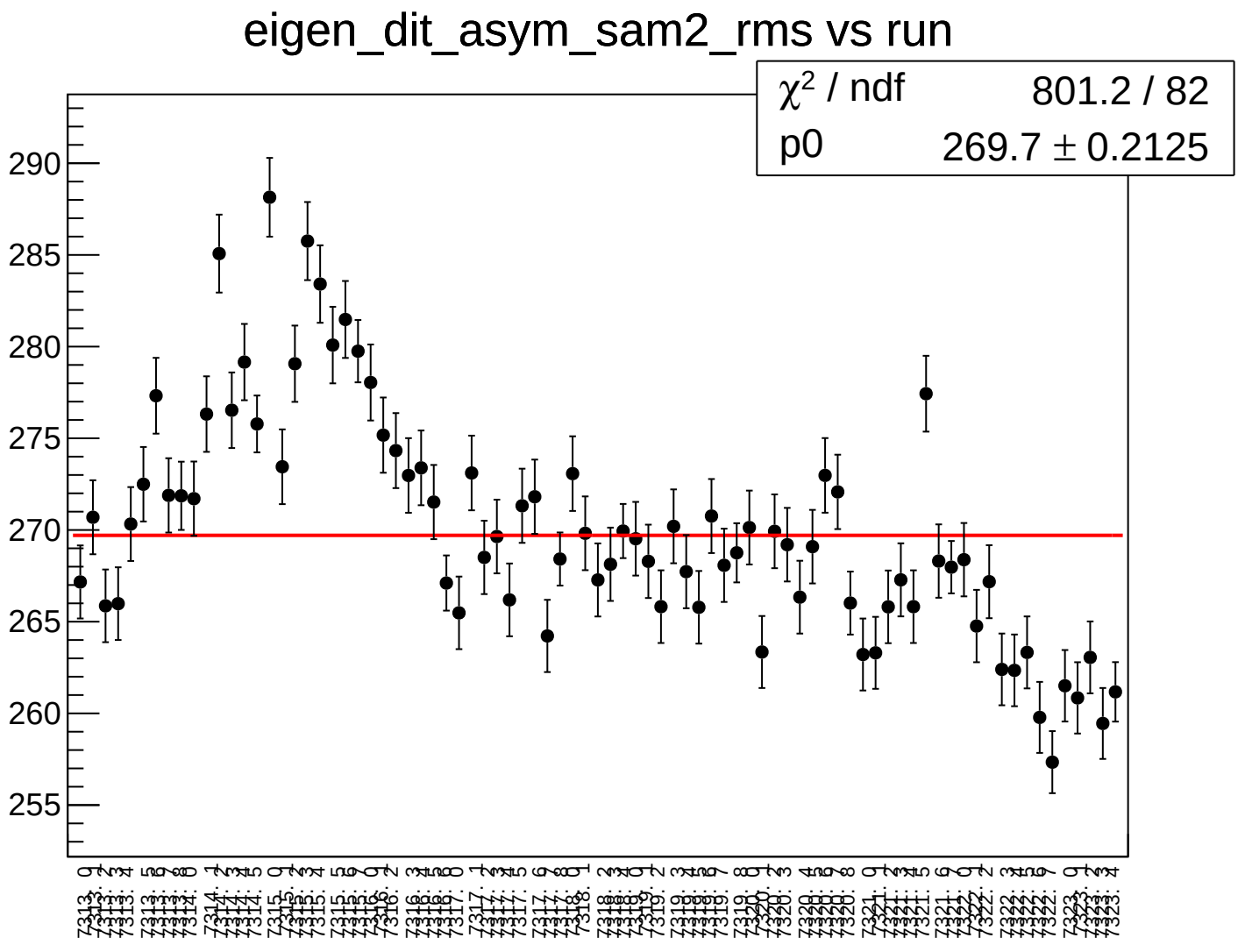

dit_asym_sam2_rms vs run
χ² / ndf 801.2 / 82
p0 269.7 ± 0.2125
290
285
280
275
270
265
260
255

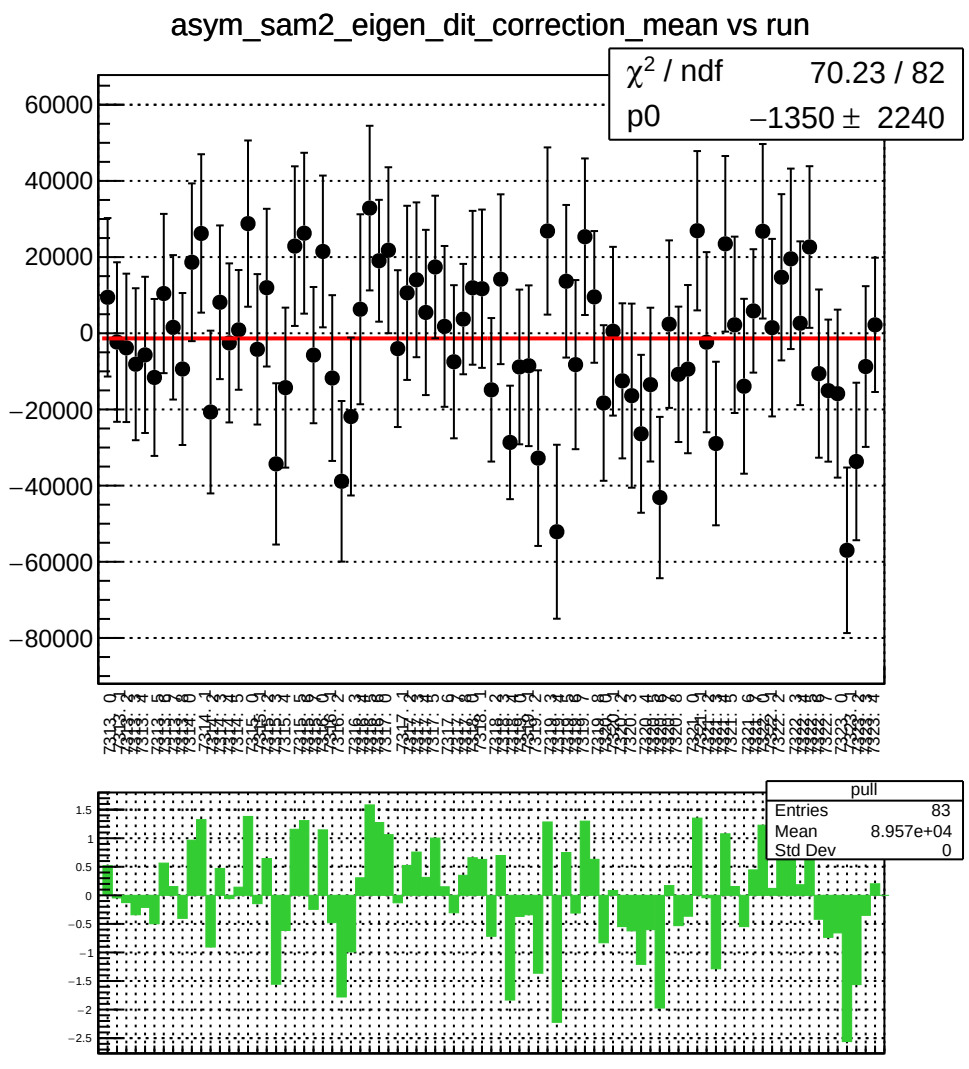

asym_sam2_dit_correction_mean vs run
χ² / ndf 70.23 / 82
p0 −1350 ± 2240
pull
Entries 83
Mean 8.947e+04
Std Dev 0
pull1D
Entries 83
Mean −4.104e−05
Std Dev 0.9199

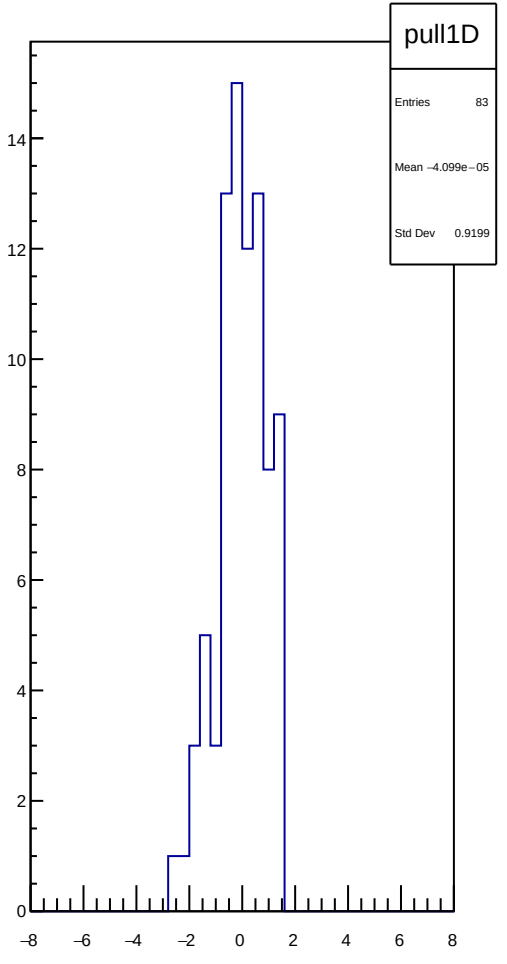

asym_sam2_dit_correction_rms vs run
χ² / ndf 4479 / 82
p0 2008 ± 1.584
2400
2300
2200
2100
2000
1900
1800

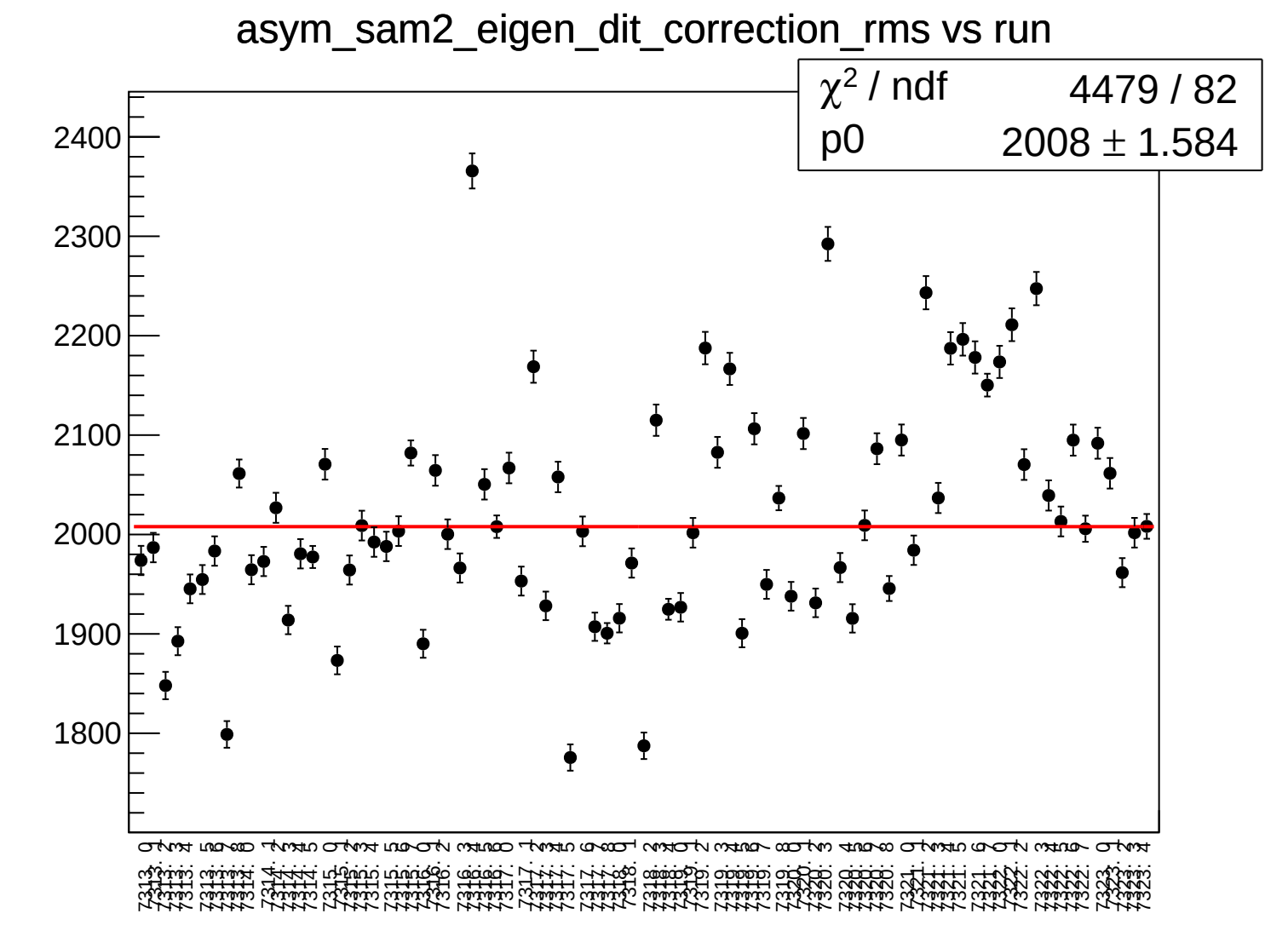

eigen_dit_asym_sam2_mean vs run
χ² / ndf 95.75 / 82
p0 −697 ± 300.5
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −355.9
Std Dev 0

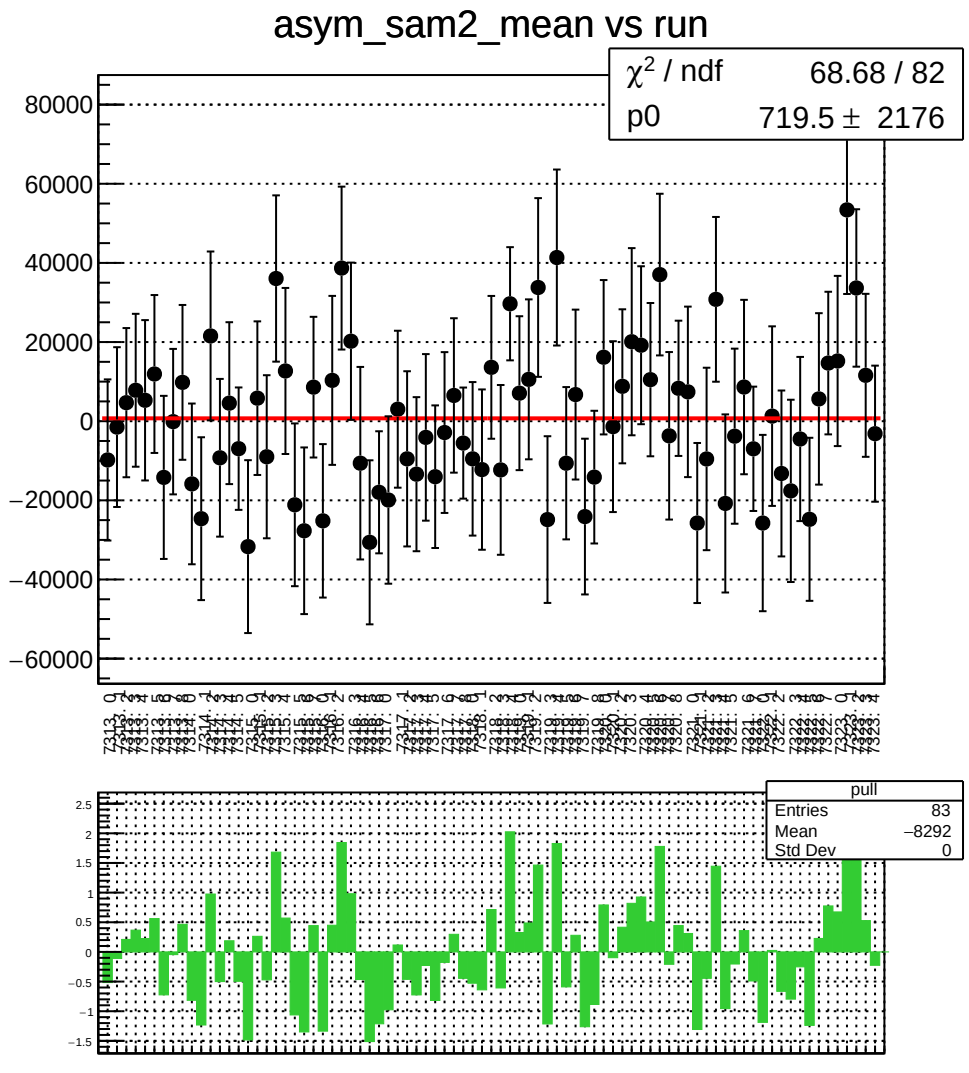

pull1D
Entries 83
Mean 0.009117
Std Dev 1.074

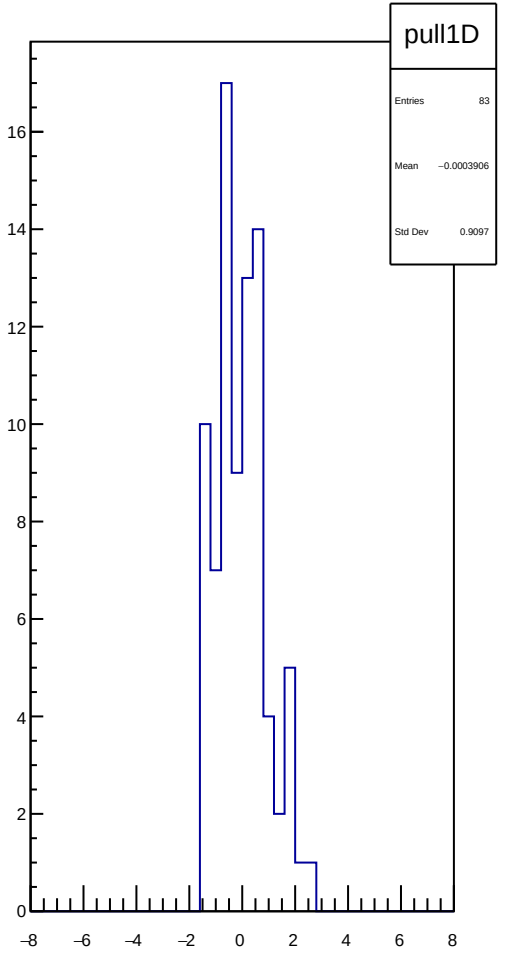

eigen_dit_asym_sam2_rms vs run
χ² / ndf 801.2 / 82
p0 269.7 ± 0.2125
290
285
280
275
270
265
260
255

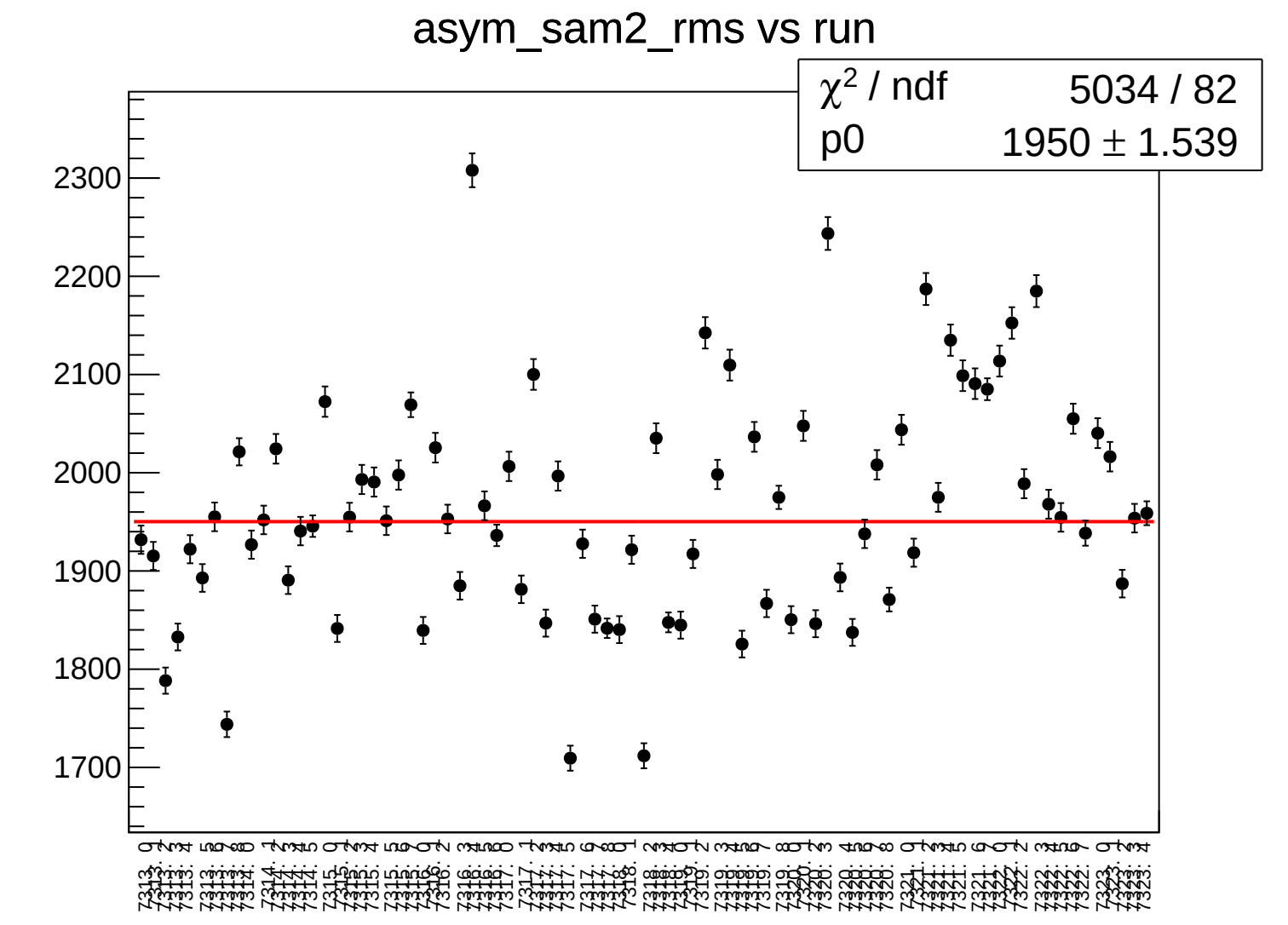

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 70.23 / 82
p0 −1350 ± 2240
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean 8.957e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

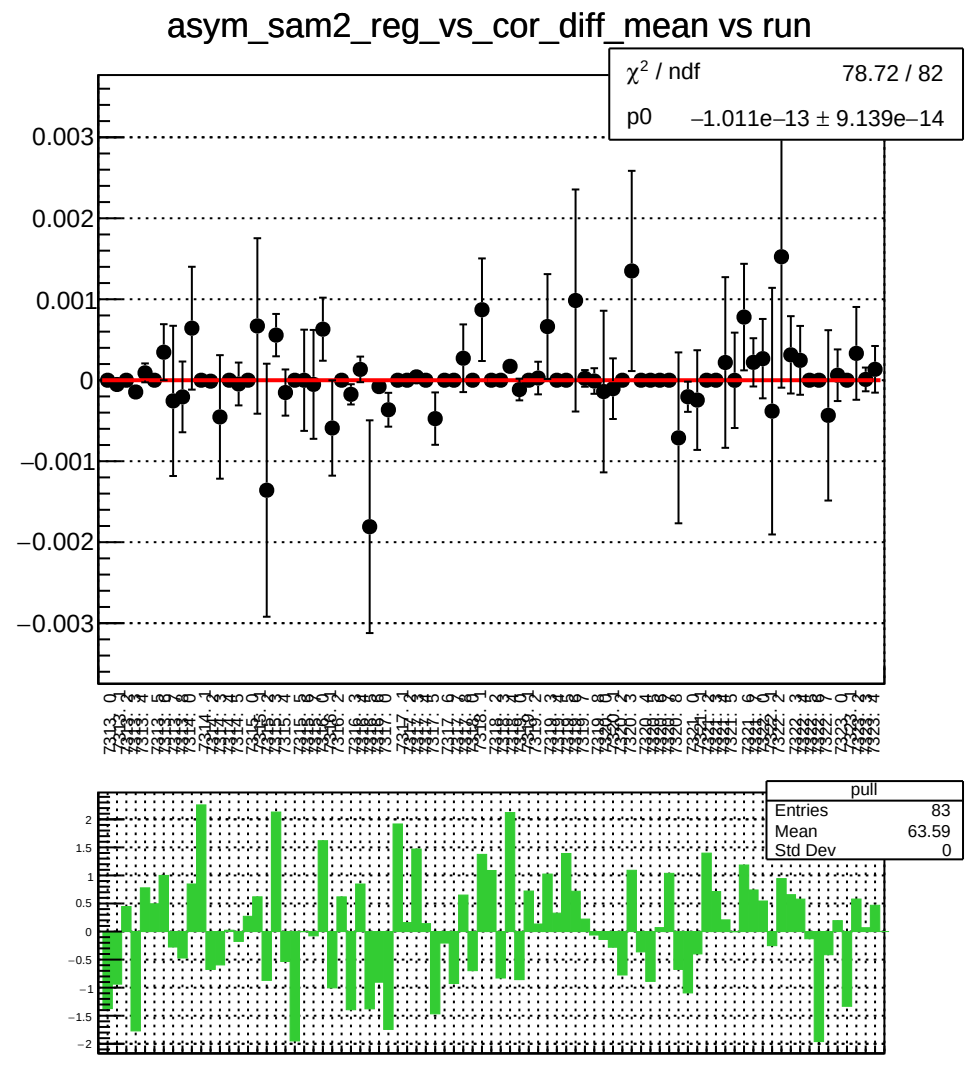

pull1D
Entries 83
Mean −4.099e−05
Std Dev 0.9199
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

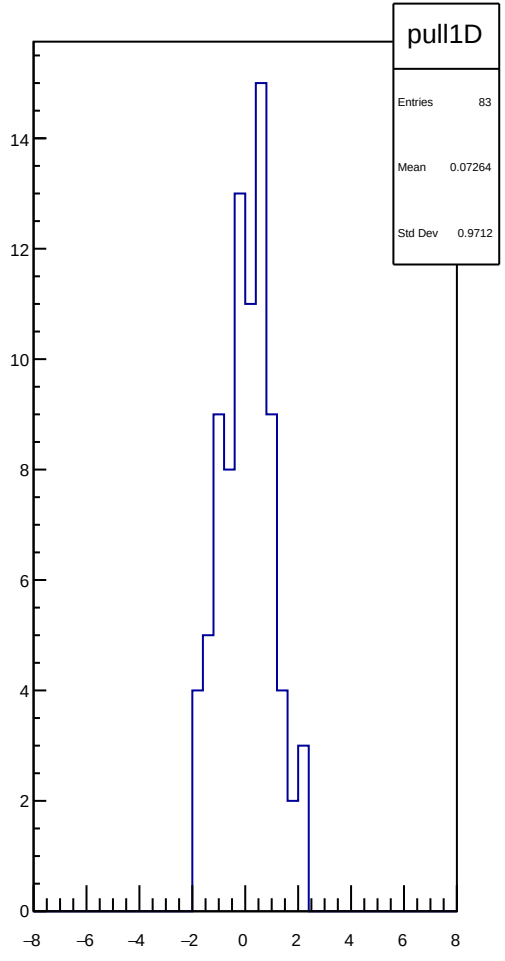

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 4479 / 82
p0 2008 ± 1.584
2400
2300
2200
2100
2000
1900
1800

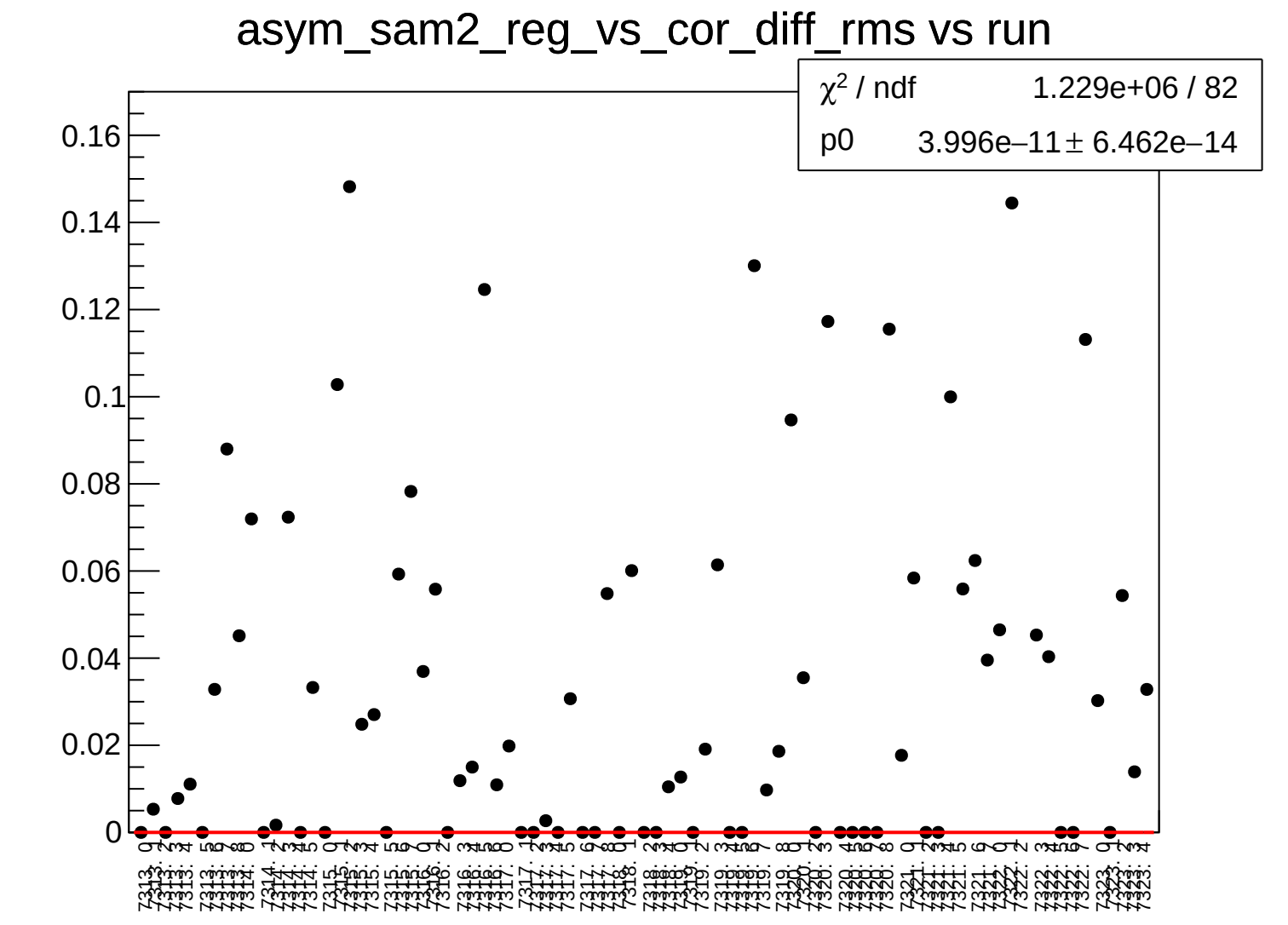

asym_sam2_mean vs run
χ² / ndf 68.68 / 82
p0 719.5 ± 2176
pull
Entries 83
Mean −8292
Std Dev 0

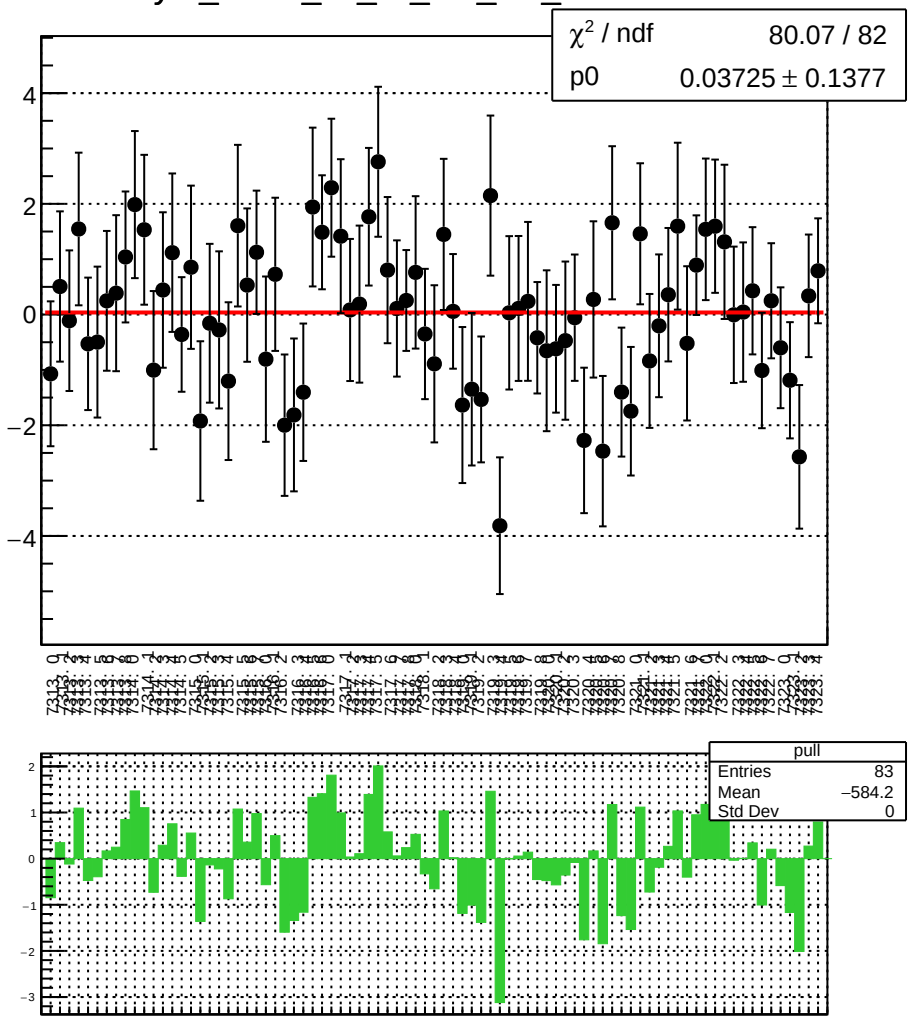

pull1D
Entries 83
Mean −0.0003906
Std Dev 0.9097

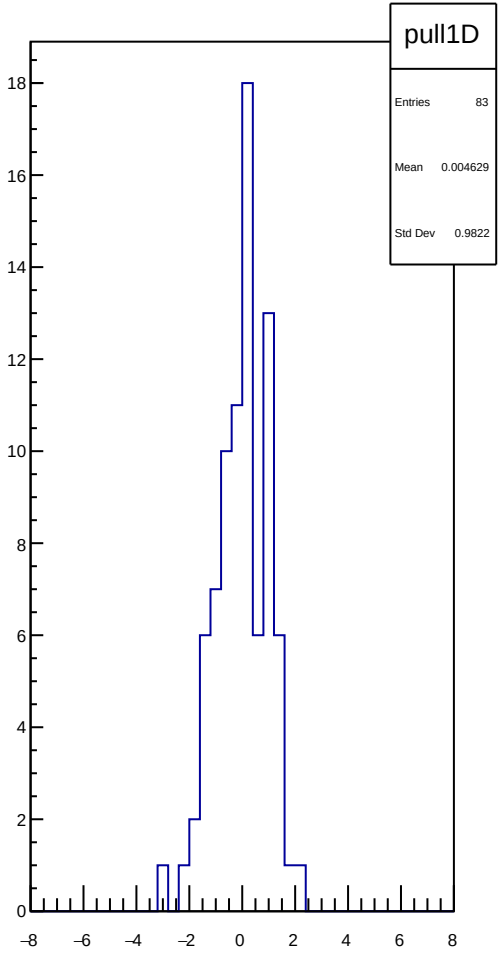

asym_sam2_rms vs run
χ² / ndf 5034 / 82
p0 1950 ± 1.539
2300
2200
2100
2000
1900
1800
1700

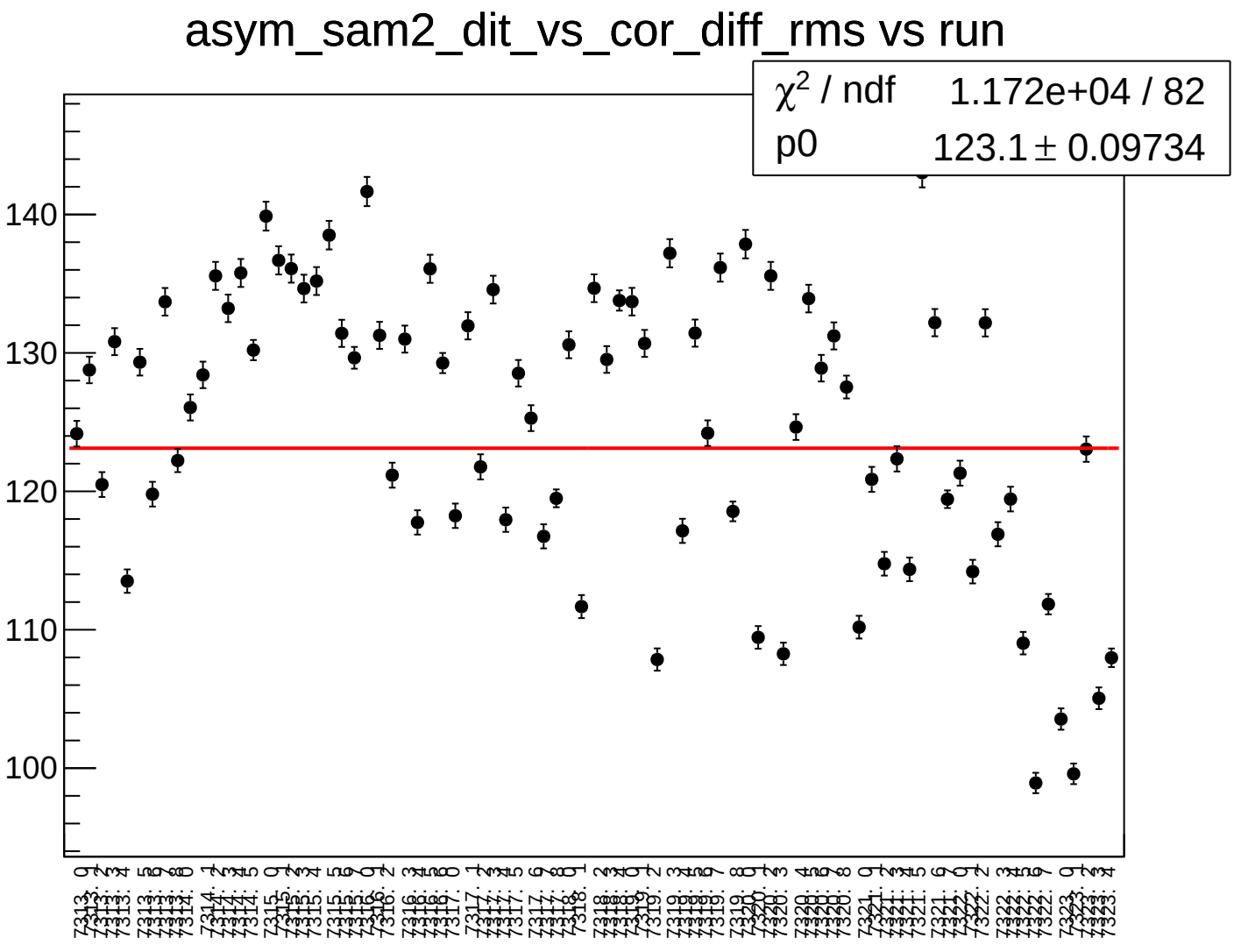

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 78.72 / 82
p0 −1.011e−13 ± 9.139e−14
pull
Entries 83
Mean 63.59
Std Dev 0

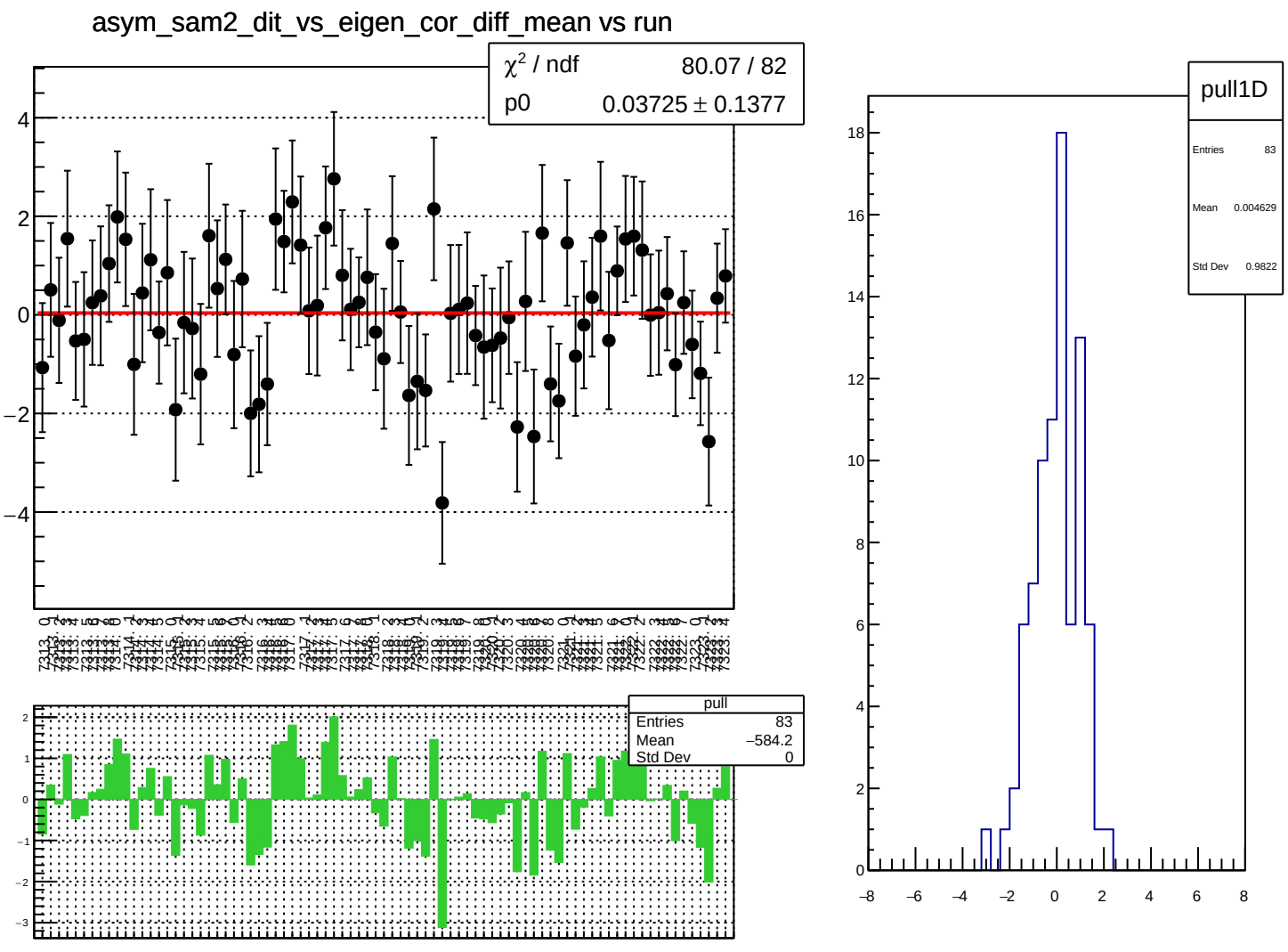

pull1D
Entries 83
Mean 0.07264
Std Dev 0.9712

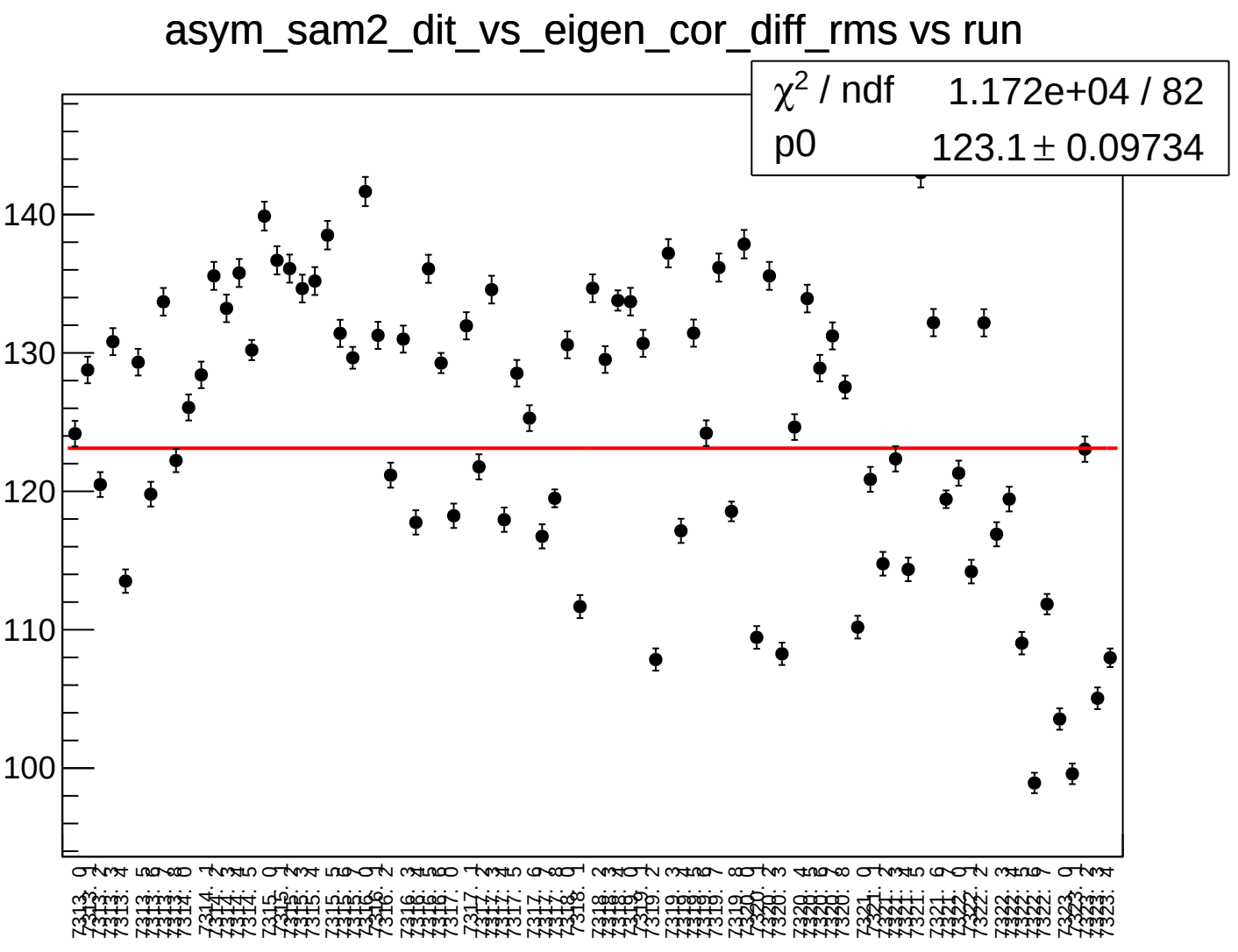

asym_sam2_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.229e+06 / 82
p0 3.996e−11 ± 6.462e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

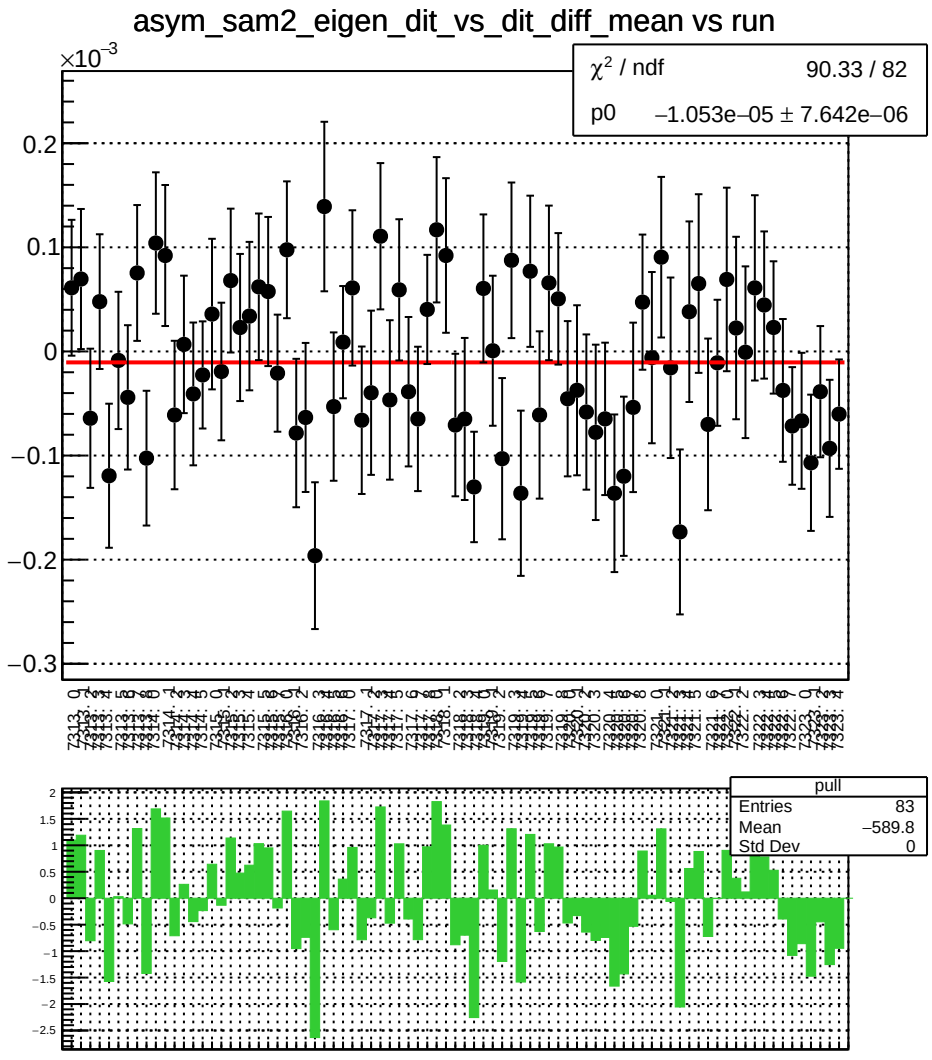

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 80.07 / 82
p0 0.03725 ± 0.1377
pull
Entries 83
Mean −584.2
Std Dev 0

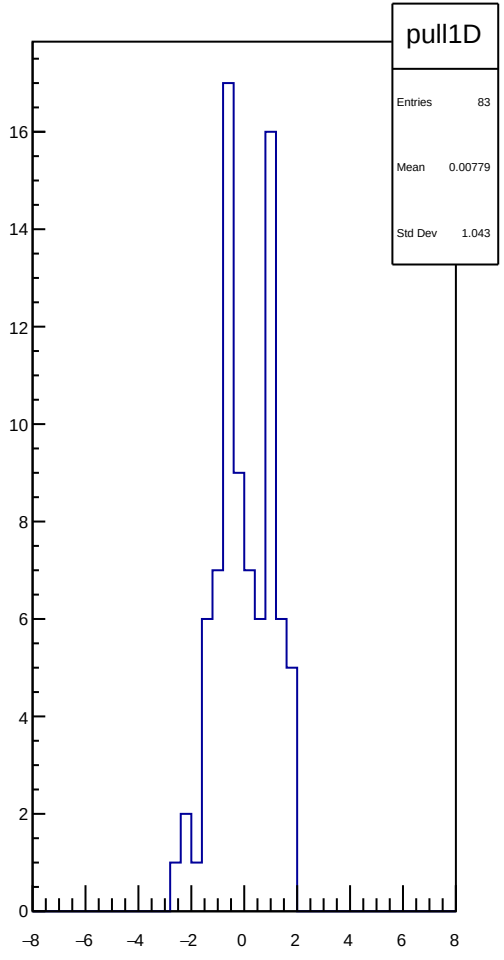

pull1D
Entries 83
Mean 0.004629
Std Dev 0.9822

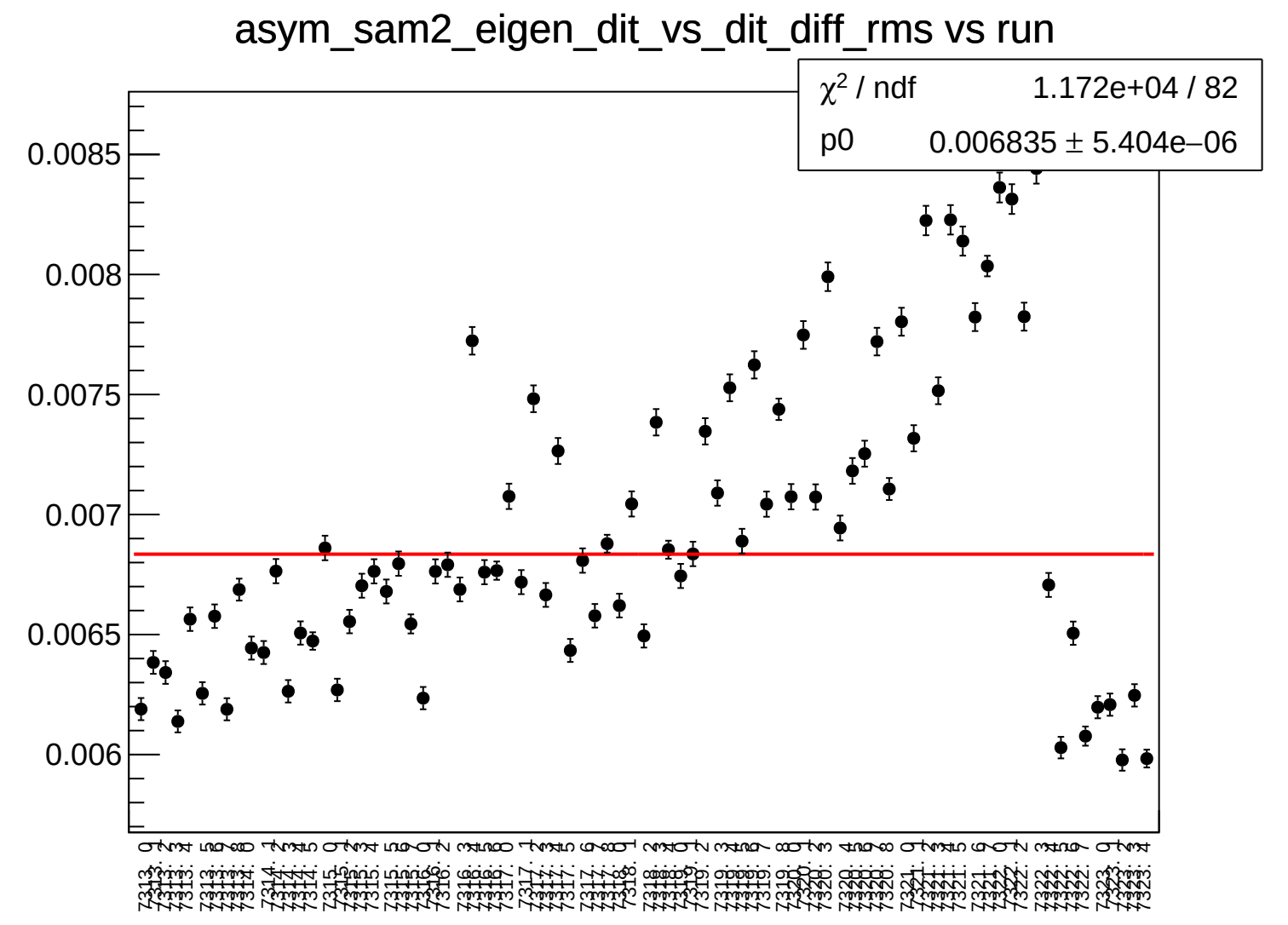

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.172e+04 / 82
p0 123.1 ± 0.09734
140
130
120
110
100

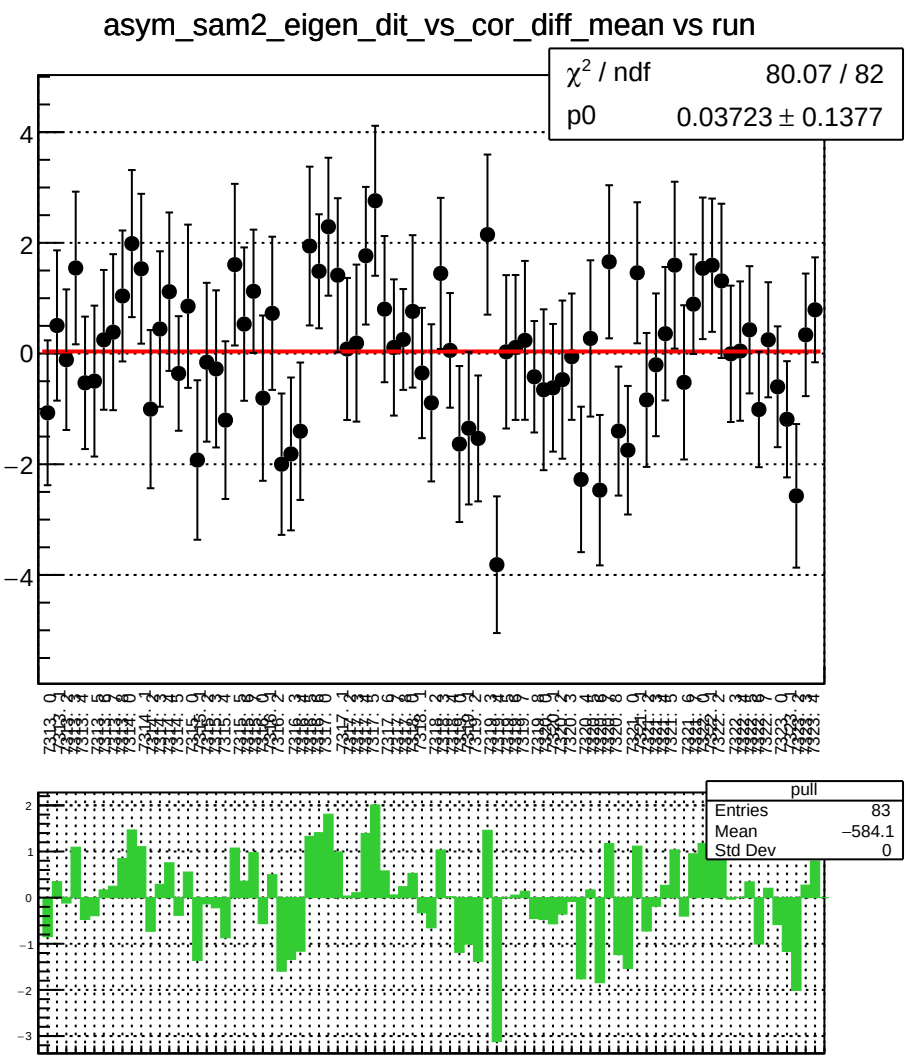

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.07 / 82
p0 0.03725 ± 0.1377
pull
Entries 83
Mean −584.2
Std Dev 0
pull1D
Entries 83
Mean 0.004629
Std Dev 0.9822

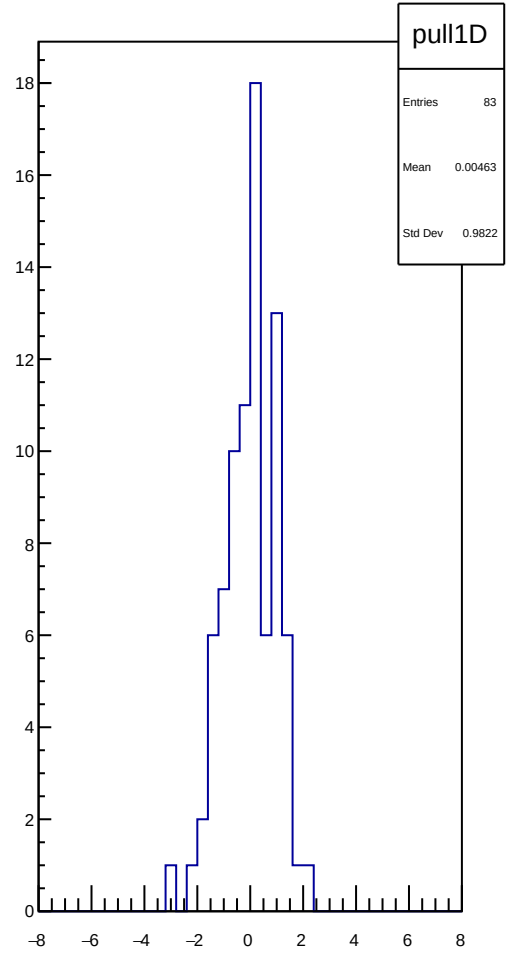

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.172e+04 / 82
p0 123.1 ± 0.09734
140
130
120
110
100

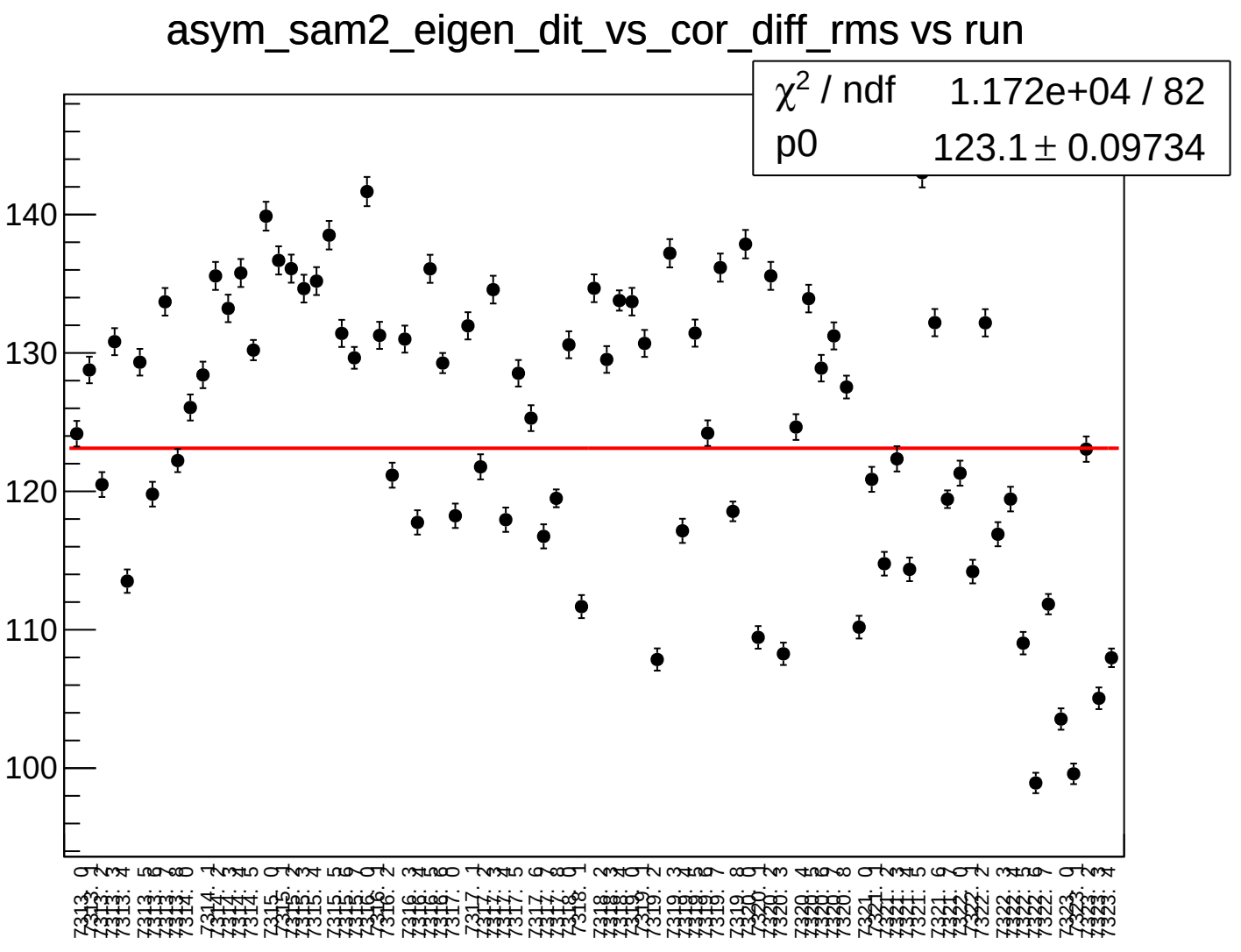

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.33 / 82
p0 −1.053e−05 ± 7.642e−06
pull
Entries 83
Mean −589.8
Std Dev 0

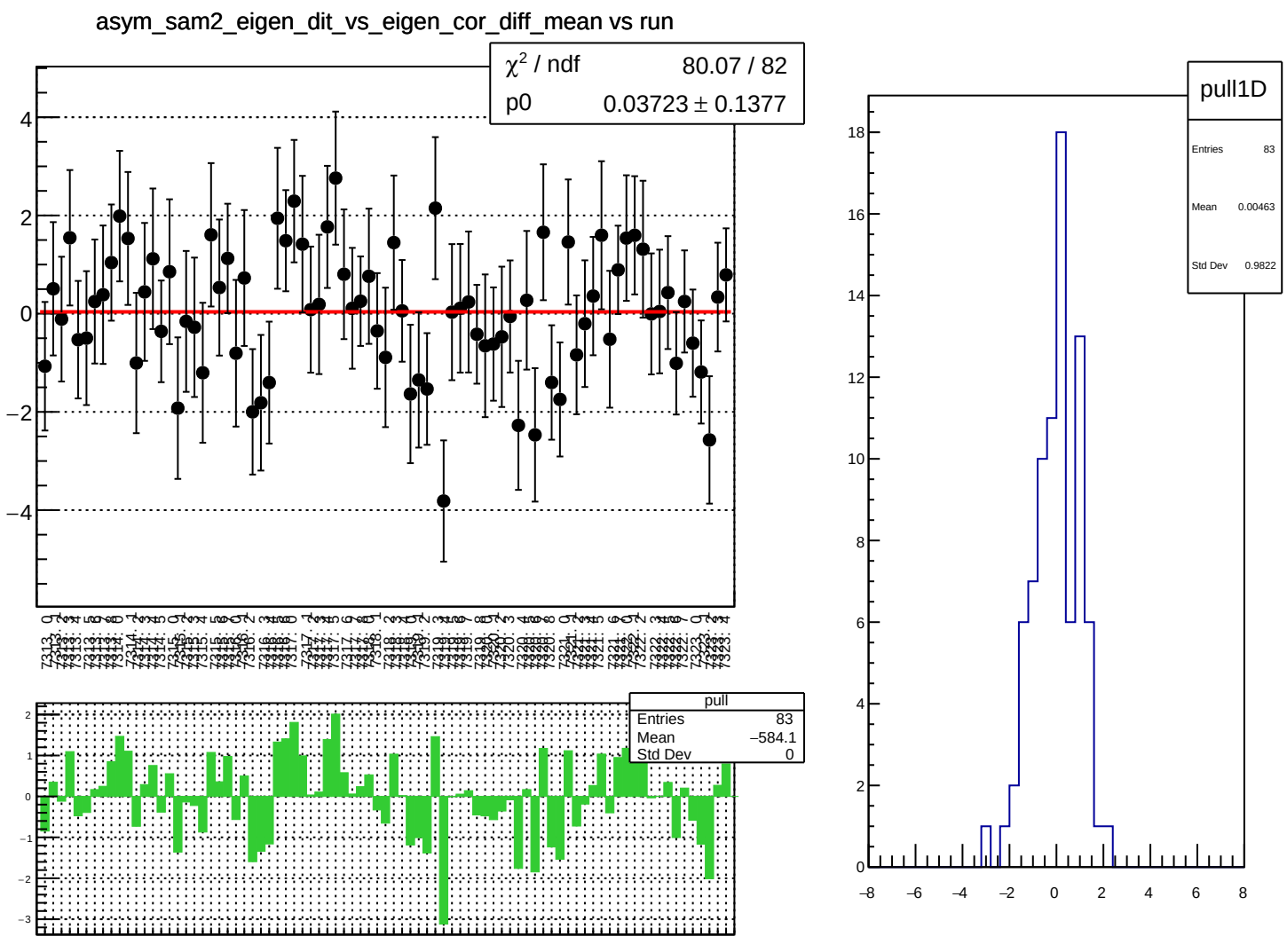

pull1D
Entries 83
Mean 0.00779
Std Dev 1.043

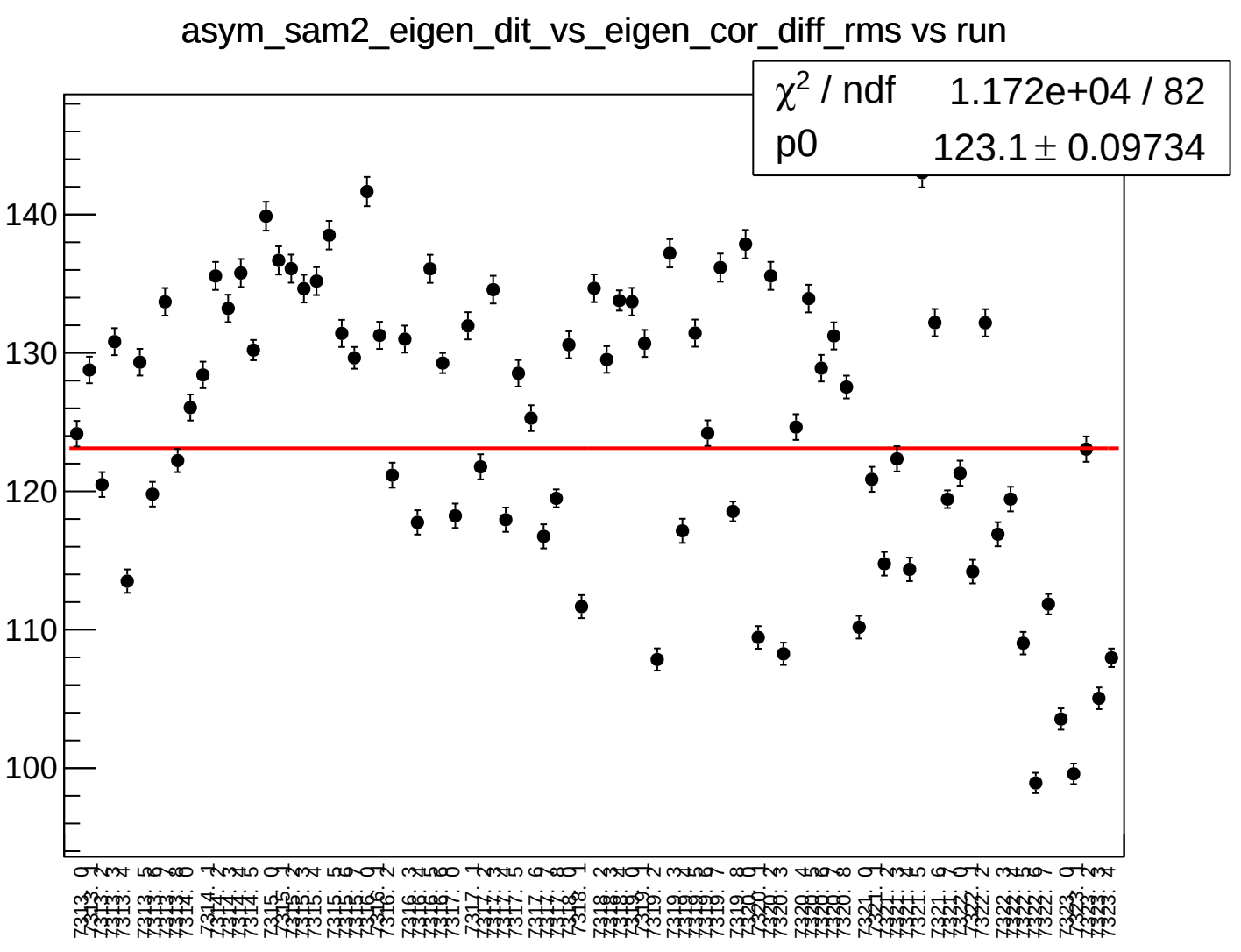

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.172e+04 / 82
p0 0.006835 ± 5.404e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

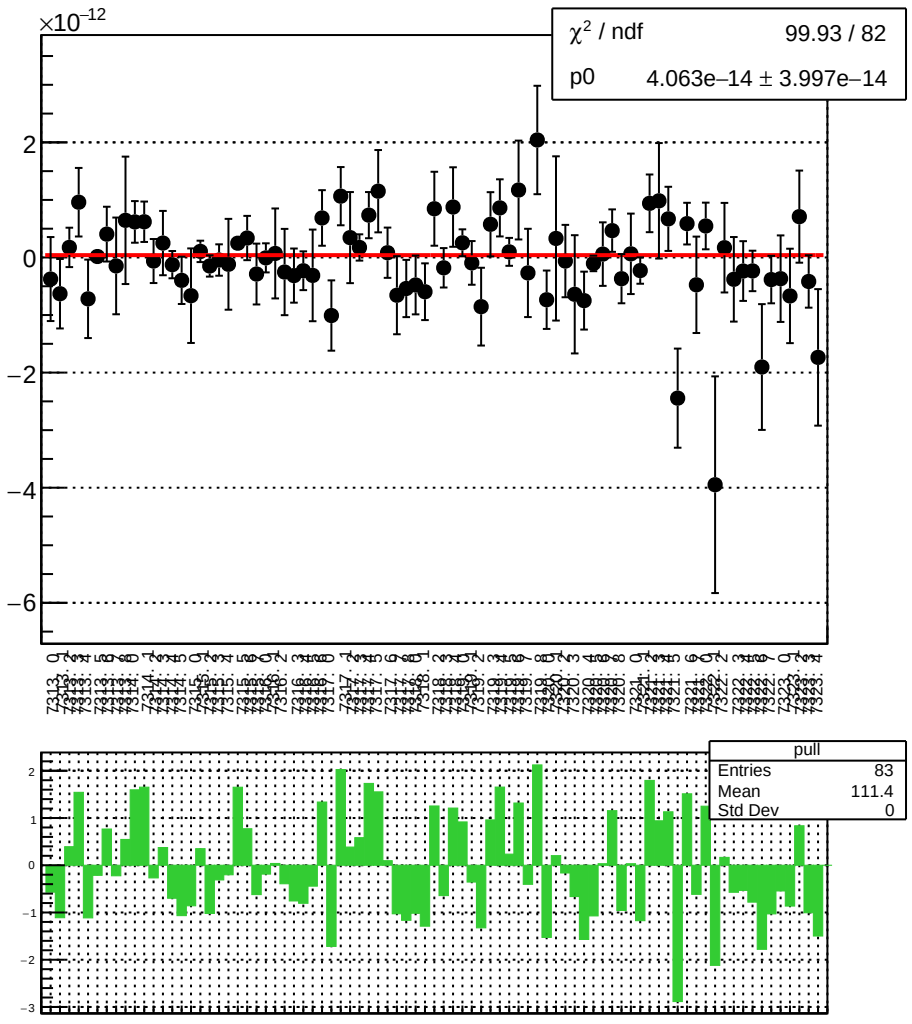

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.07 / 82
p0 0.03723 ± 0.1377
pull
Entries 83
Mean −584.1
Std Dev 0

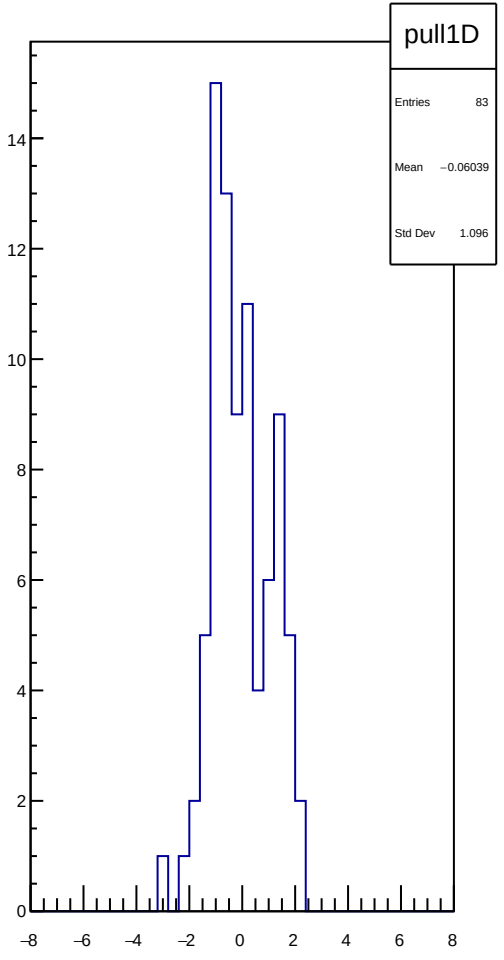

pull1D
Entries 83
Mean 0.00463
Std Dev 0.9822

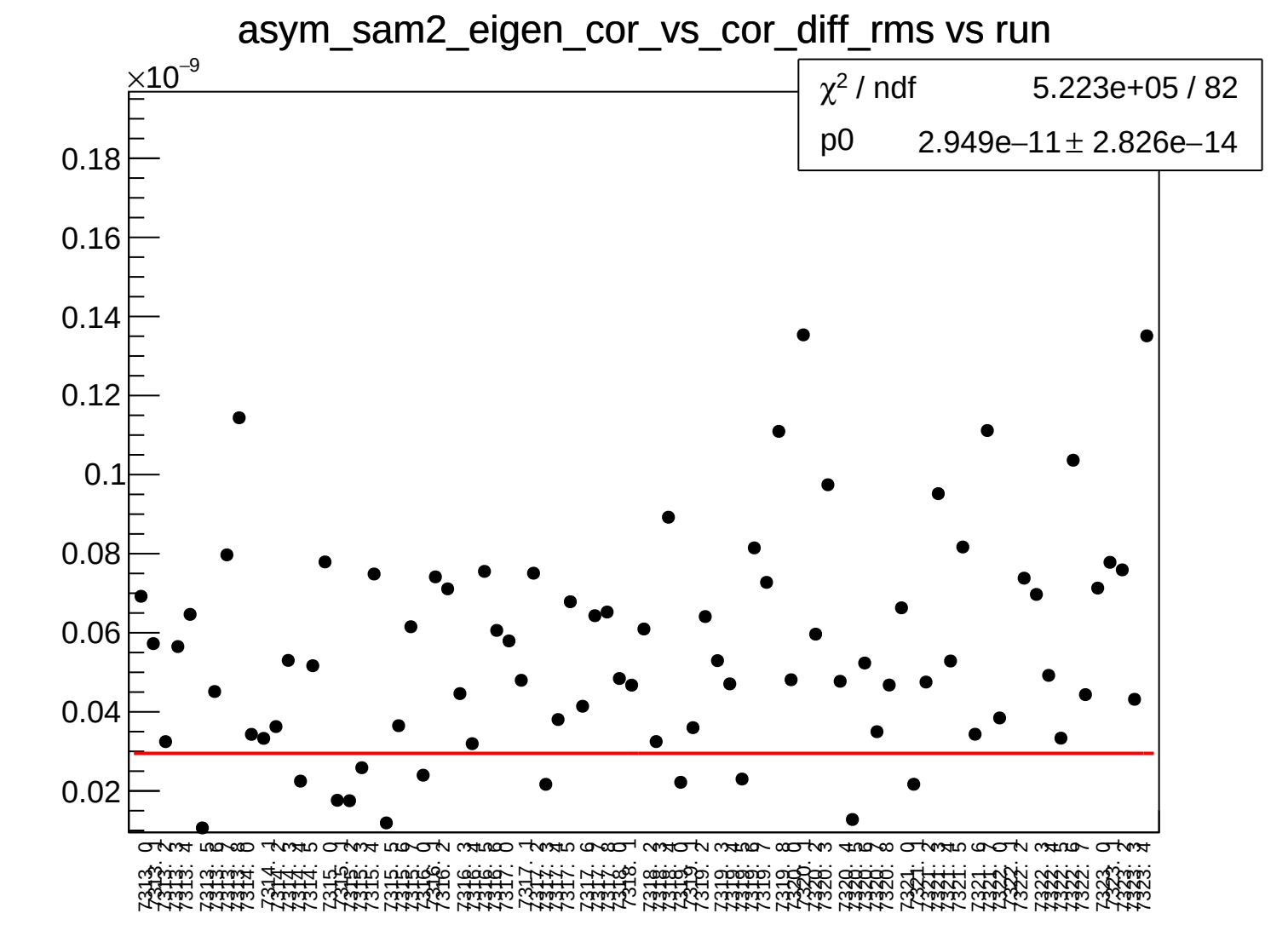

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.172e+04 / 82
p0 123.1 ± 0.09734
140
130
120
110
100

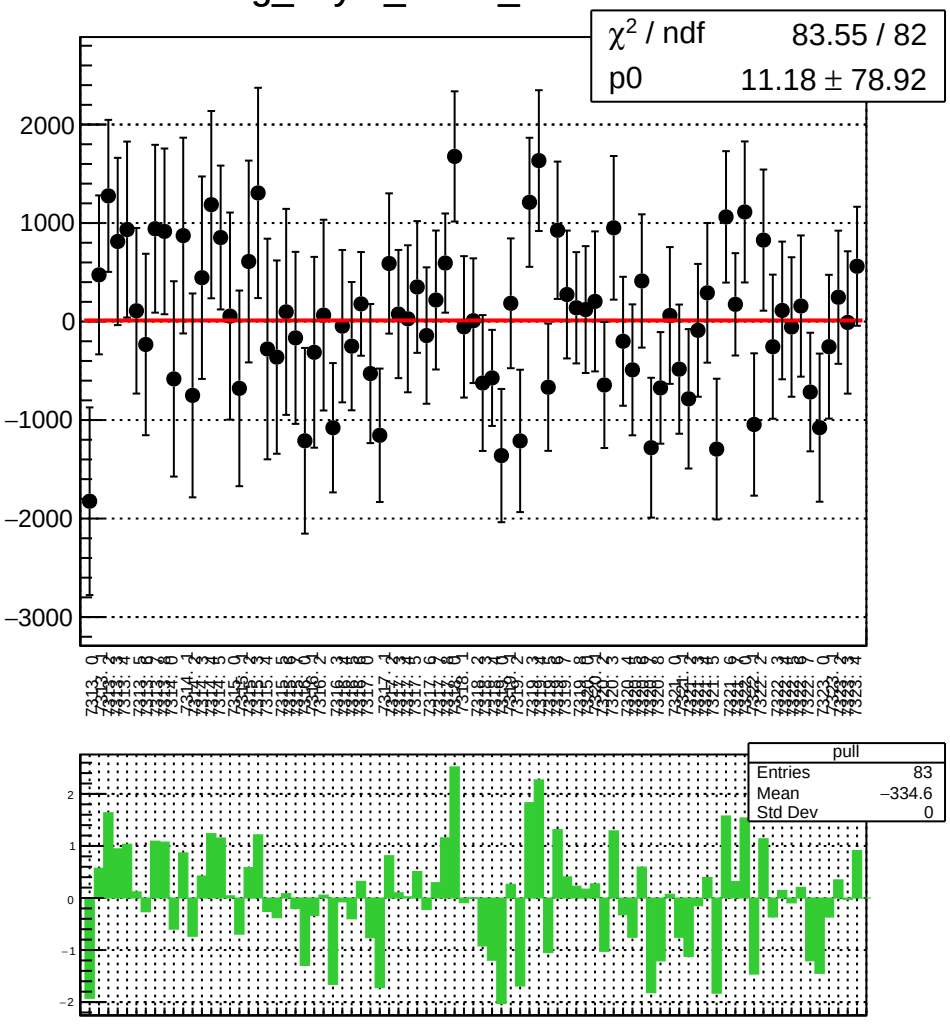

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.07 / 82
p0 0.03723 ± 0.1377
pull
Entries 83
Mean −584.1
Std Dev 0
pull1D
Entries 83
Mean 0.00463
Std Dev 0.9822

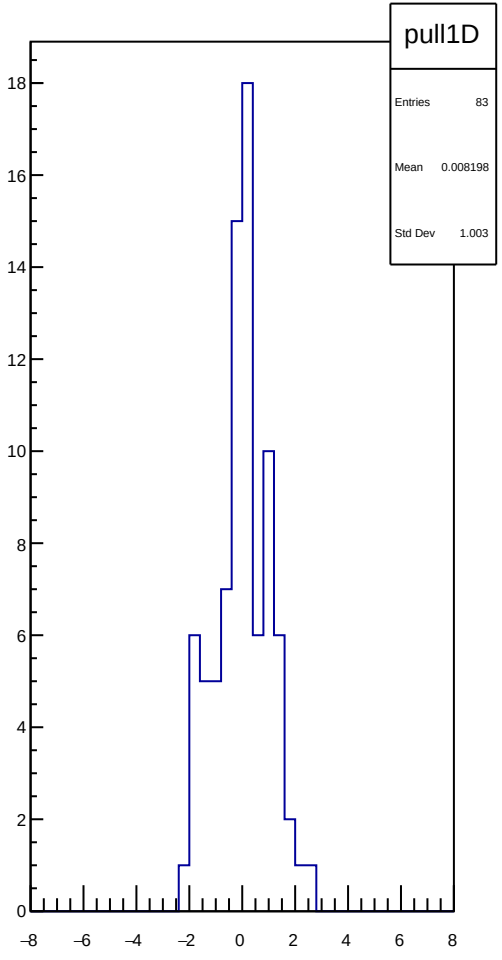

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.172e+04 / 82
p0 123.1 ± 0.09734
140
130
120
110
100

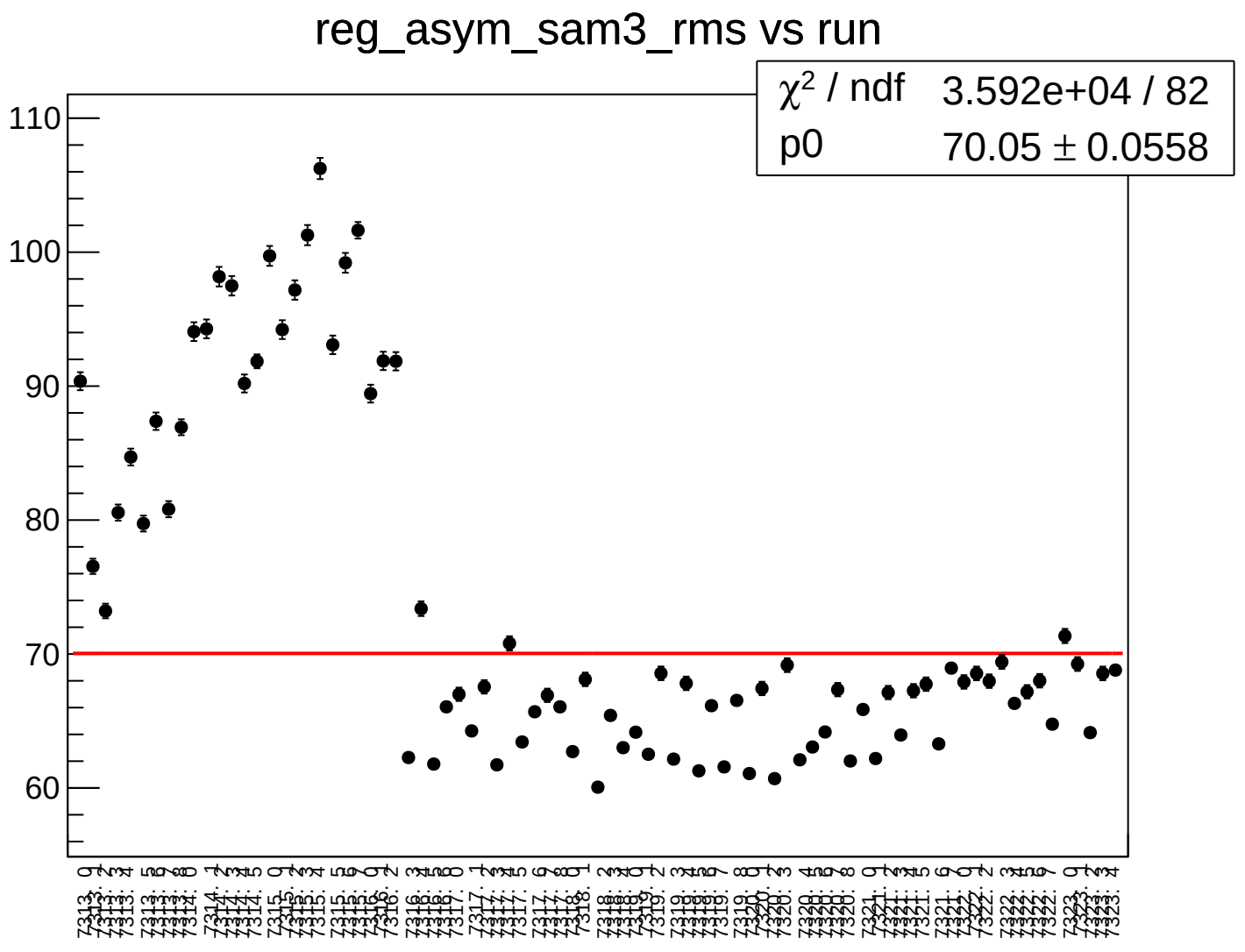

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.93 / 82
p0 4.063e−14 ± 3.997e−14
pull
Entries 83
Mean 111.4
Std Dev 0

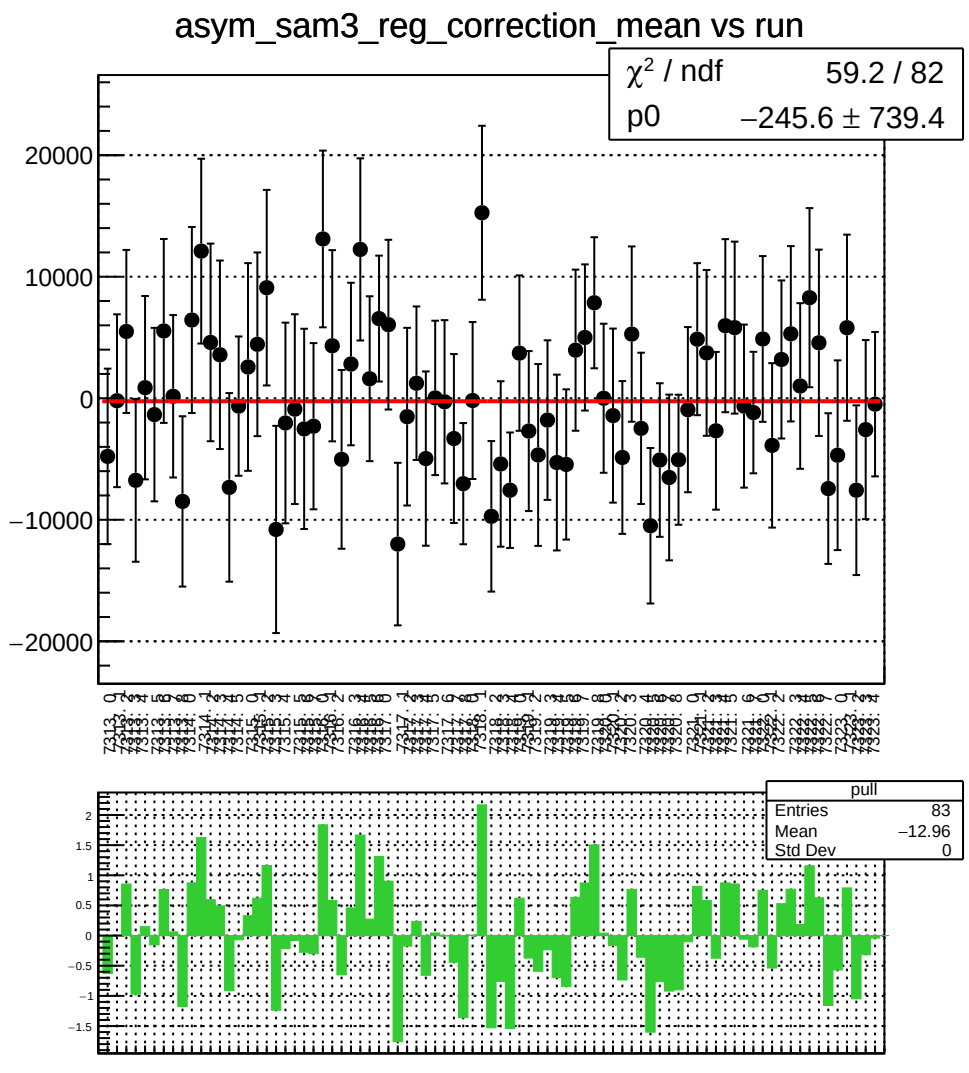

pull1D
Entries 83
Mean −0.06039
Std Dev 1.096

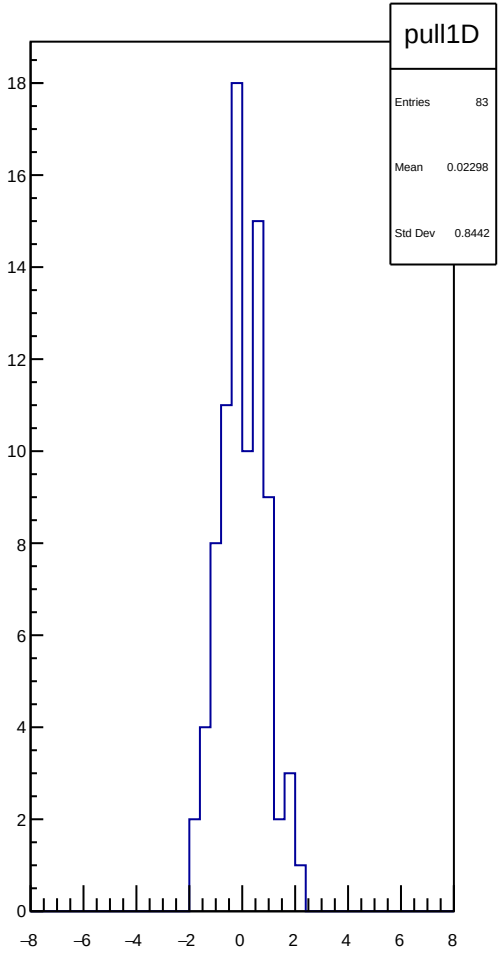

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.223e+05 / 82
p0 2.949e−11 ± 2.826e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

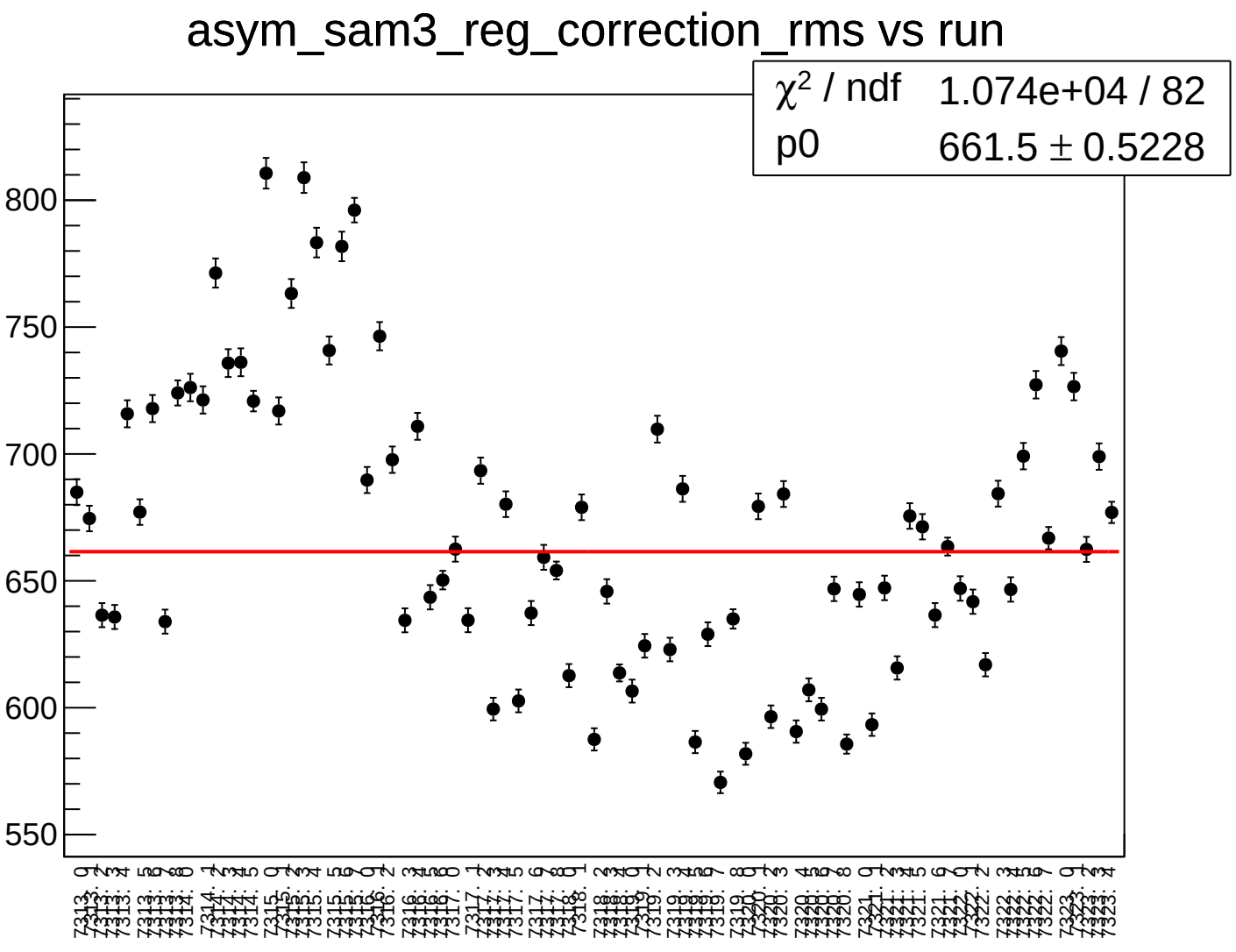

reg_asym_sam3_mean vs run
χ^2 / ndf 83.55 / 82
p0 11.18 ± 78.92
pull
Entries 83
Mean −334.6
Std Dev 0

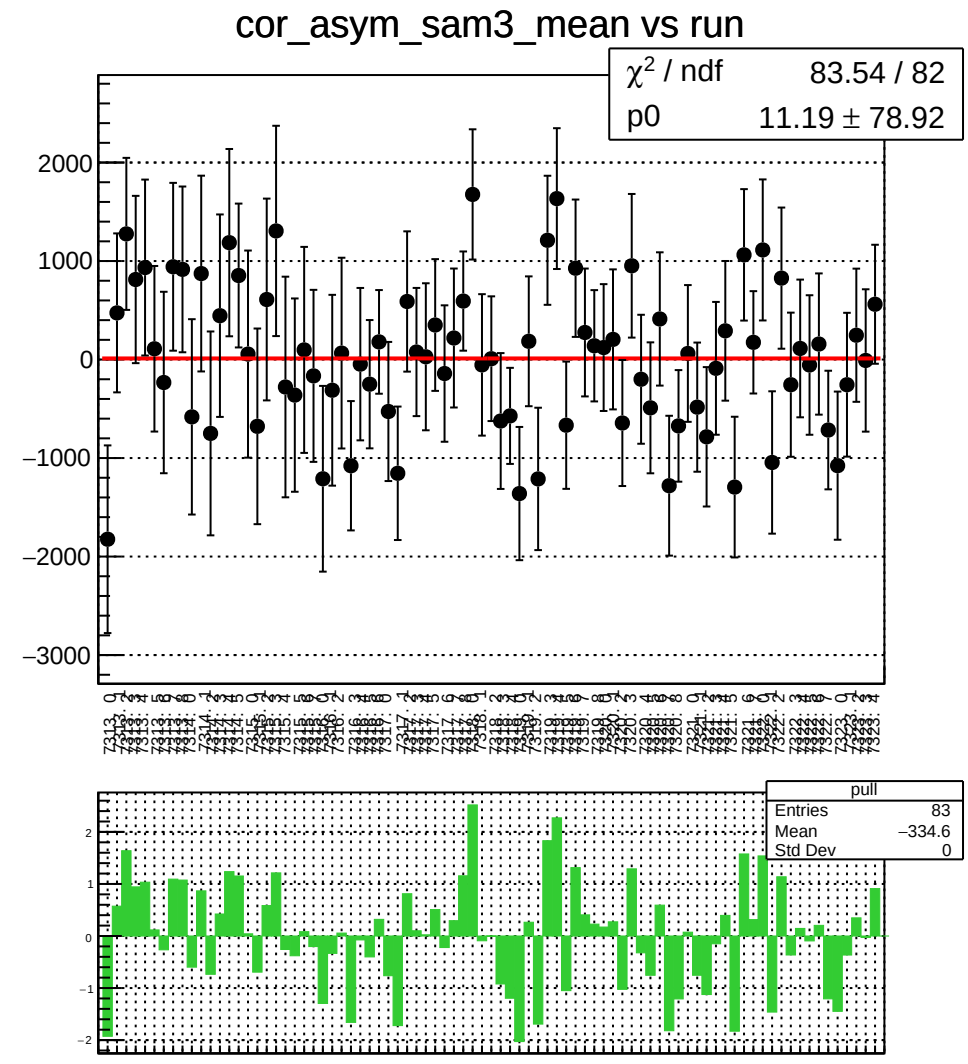

pull1D
Entries 83
Mean 0.008198
Std Dev 1.003

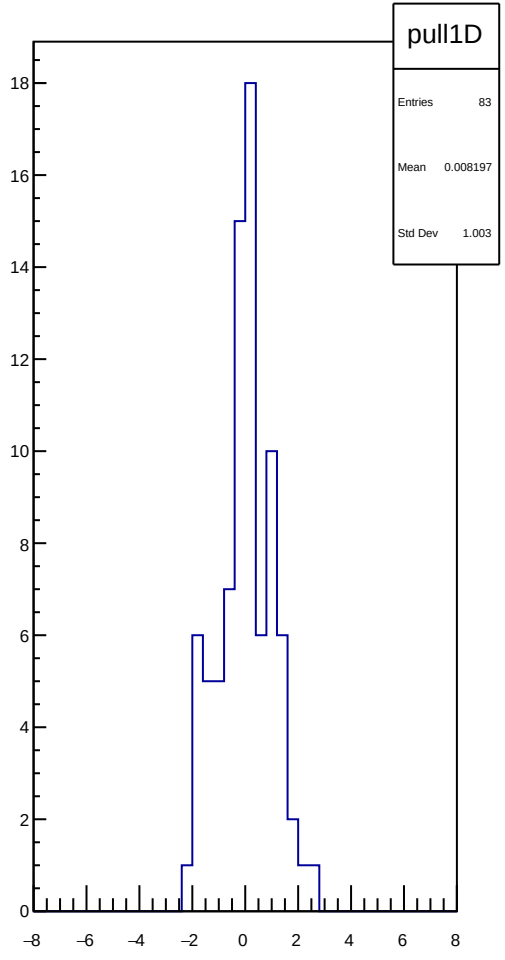

reg_asym_sam3_rms vs run
χ^2 / ndf 3.592e+04 / 82
p0 70.05 ± 0.0558
110
100
90
80
70
60

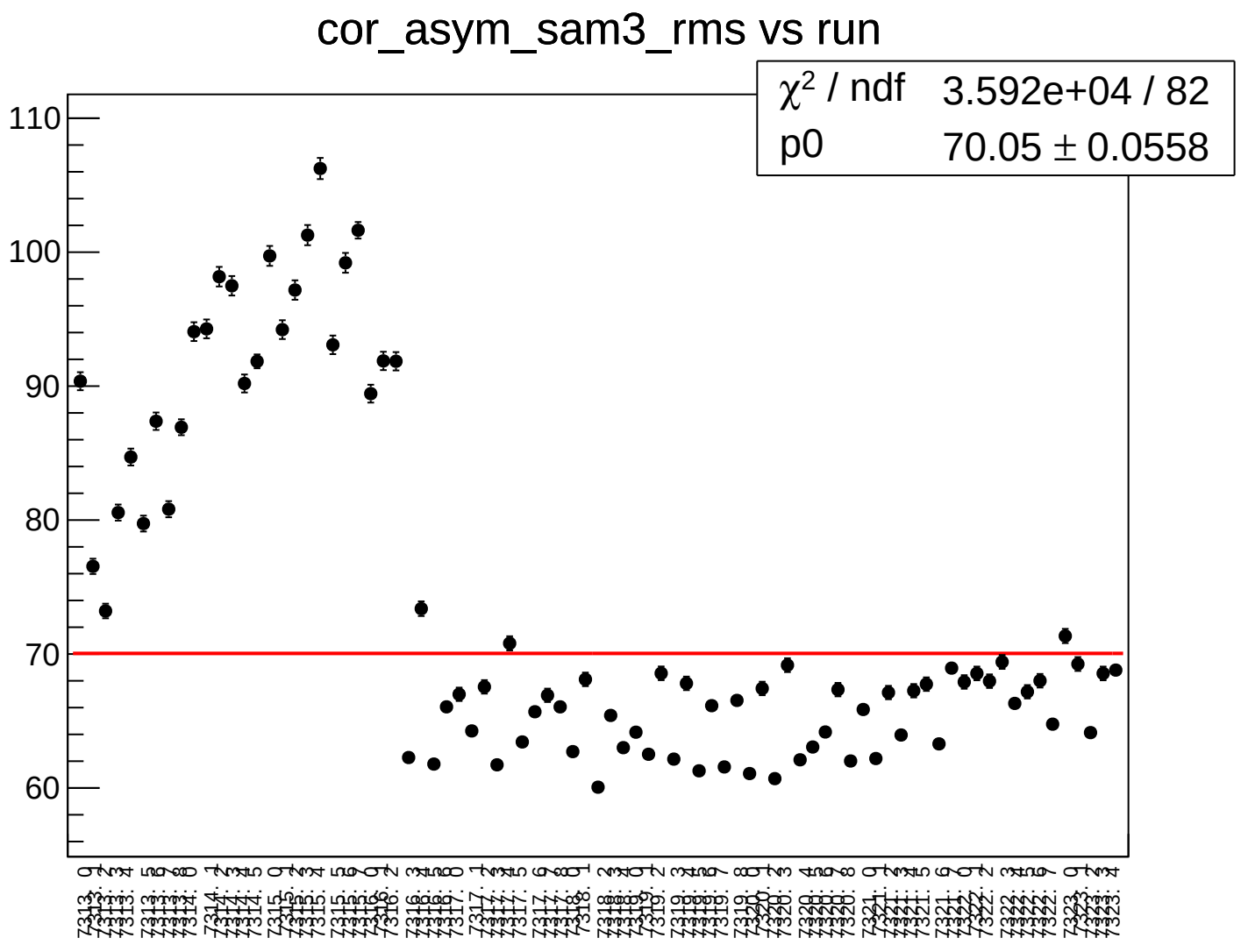

asym_sam3_reg_correction_mean vs run
χ² / ndf 59.2 / 82
p0 −245.6 ± 739.4
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −12.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

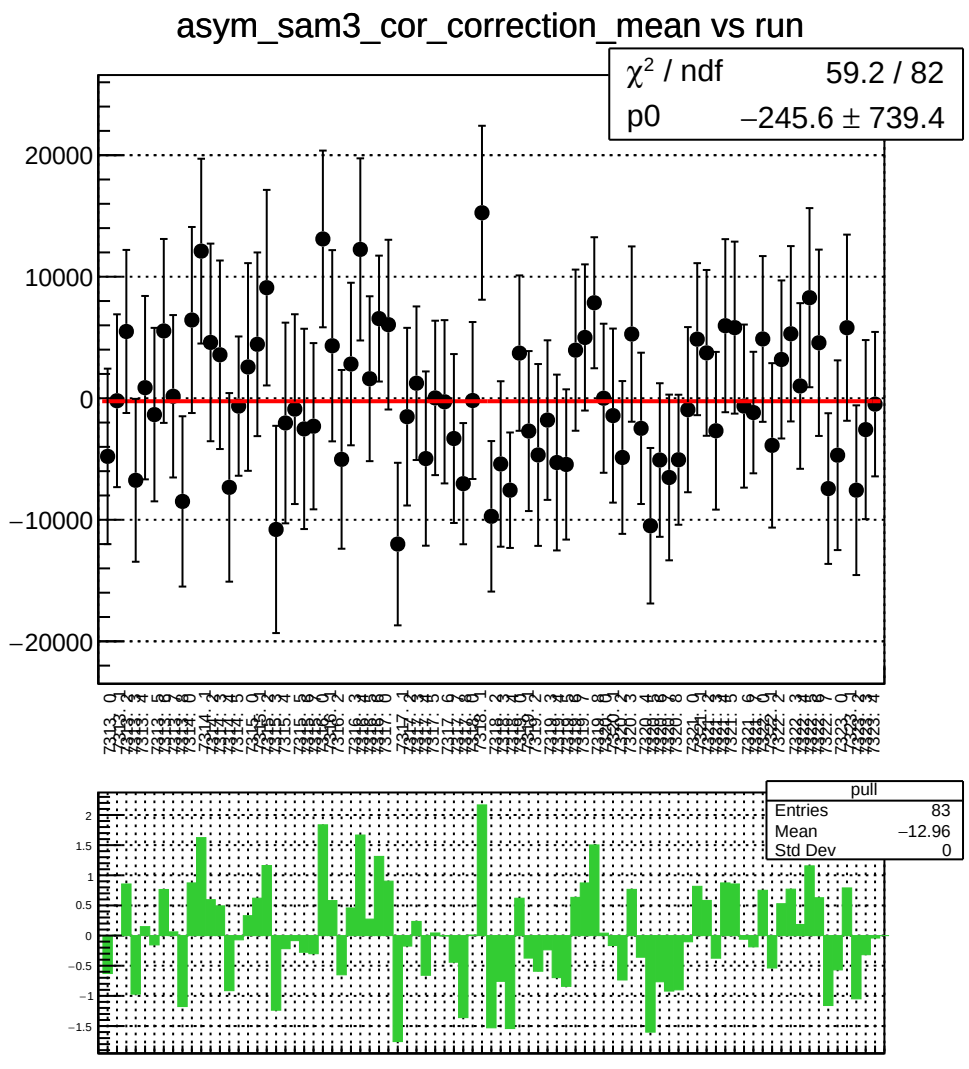

pull1D
Entries 83
Mean 0.02298
Std Dev 0.8442
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

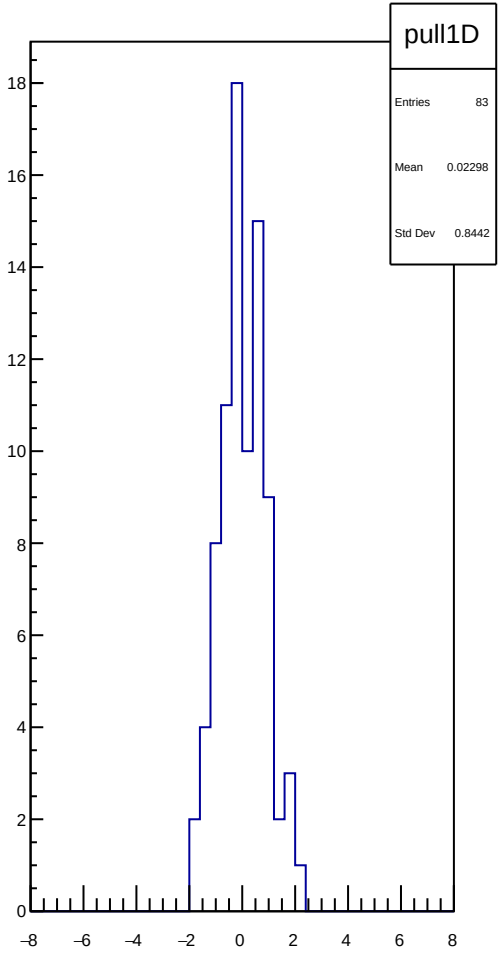

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.074e+04 / 82
p0 661.5 ± 0.5228
800
750
700
650
600
550

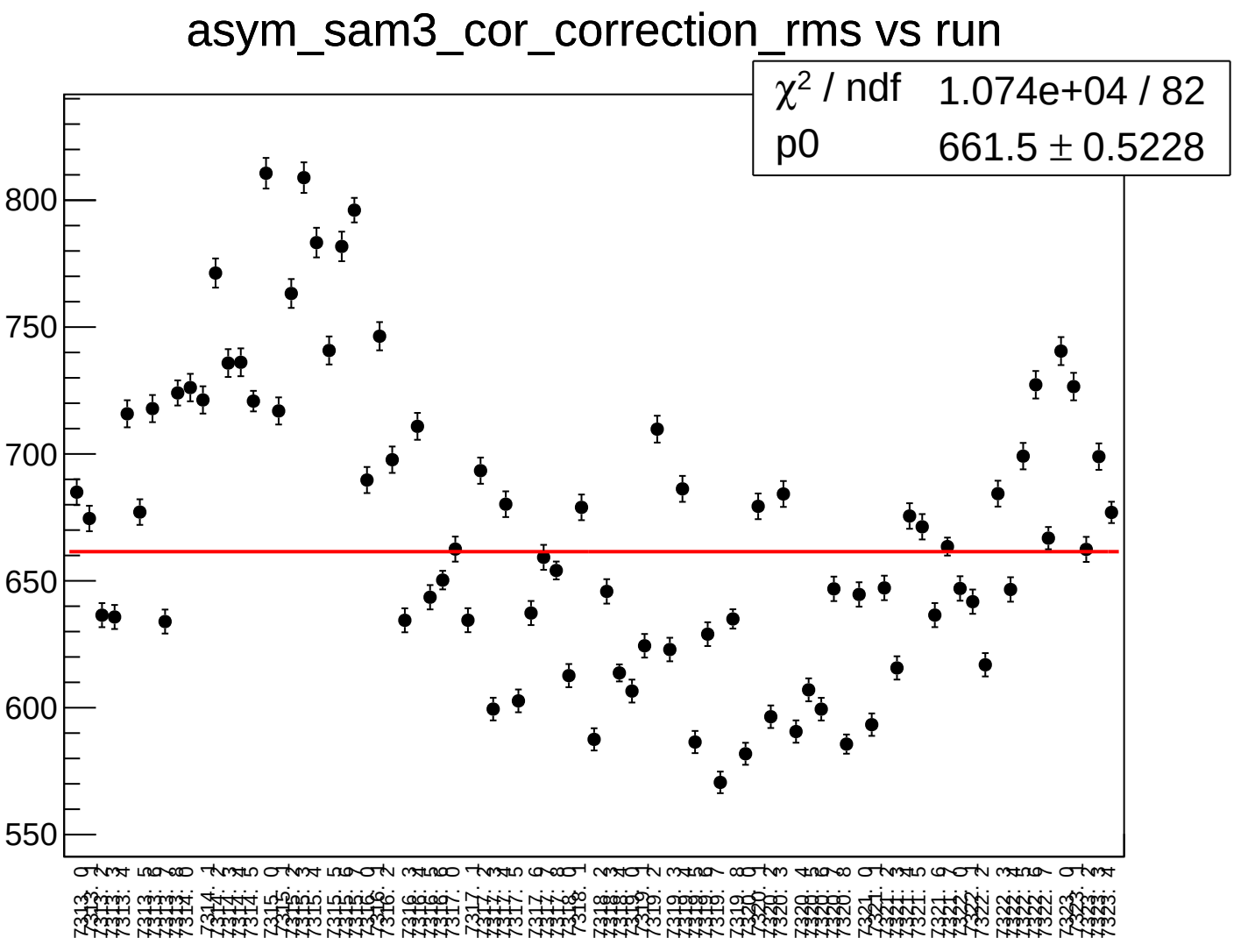

cor_asym_sam3_mean vs run
χ² / ndf 83.54 / 82
p0 11.19 ± 78.92
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −334.6
Std Dev 0
2
1
0
−1
−2

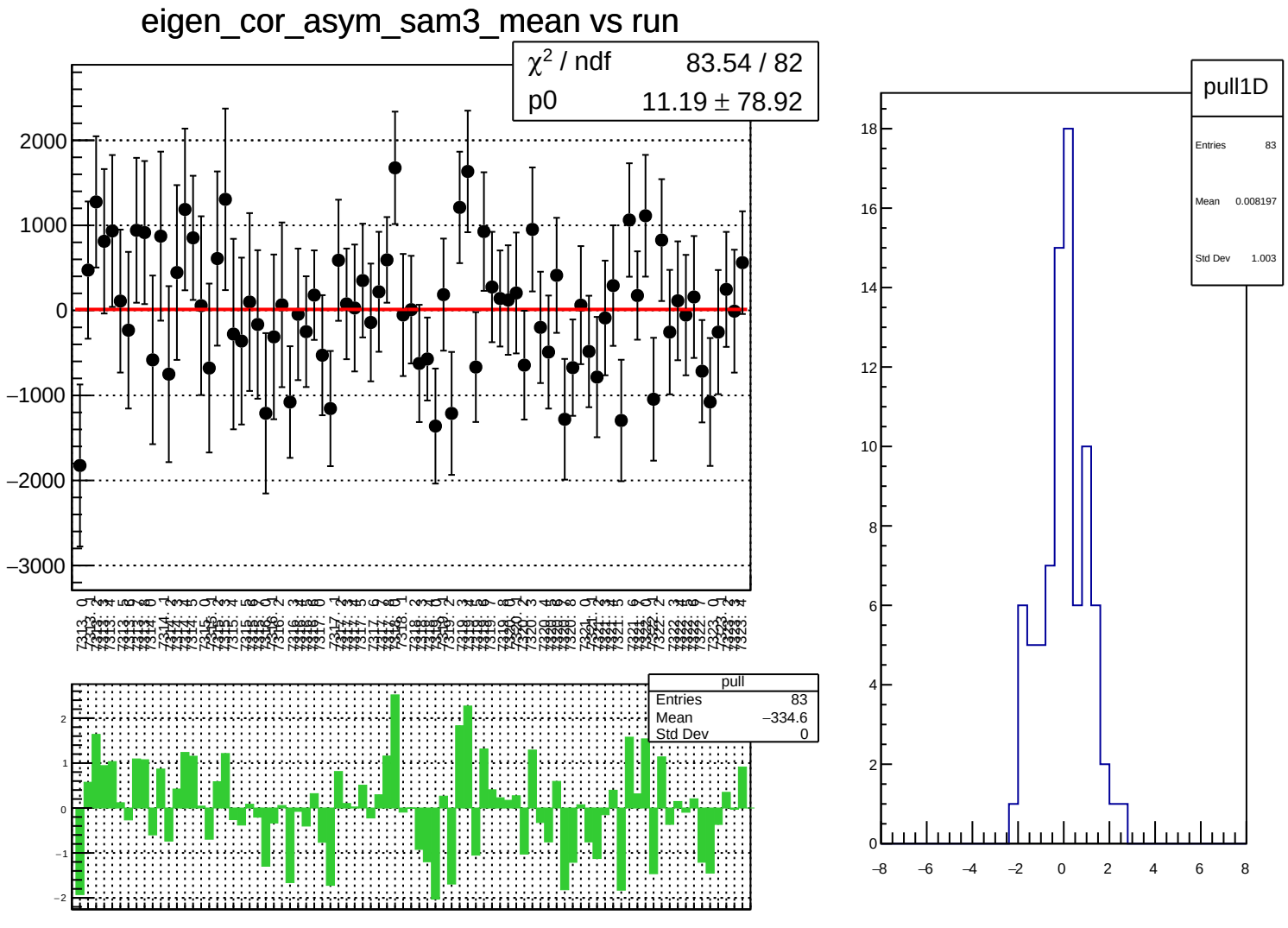

pull1D
Entries 83
Mean 0.008197
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

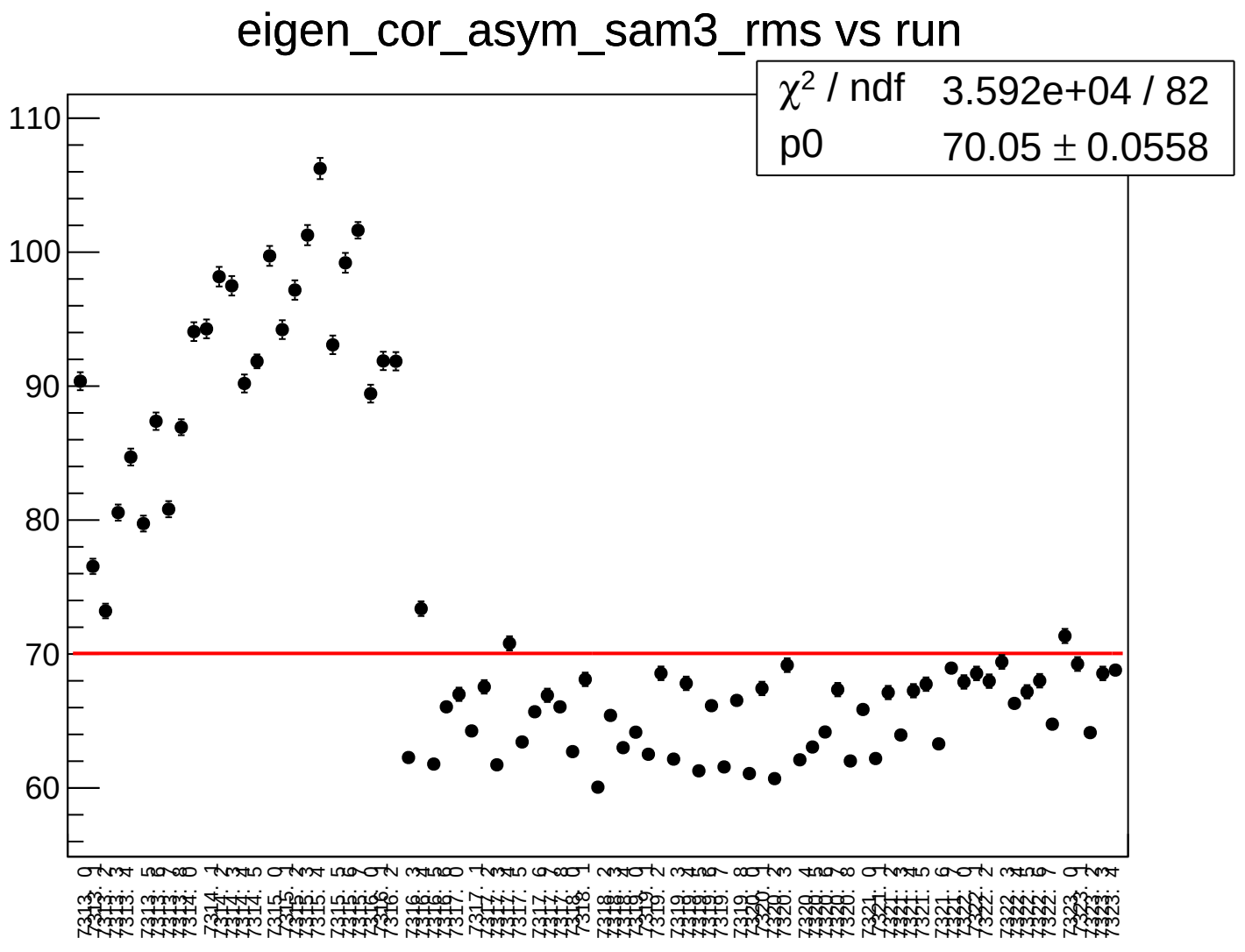

cor_asym_sam3_rms vs run
χ² / ndf 3.592e+04 / 82
p0 70.05 ± 0.0558
110
100
90
80
70
60

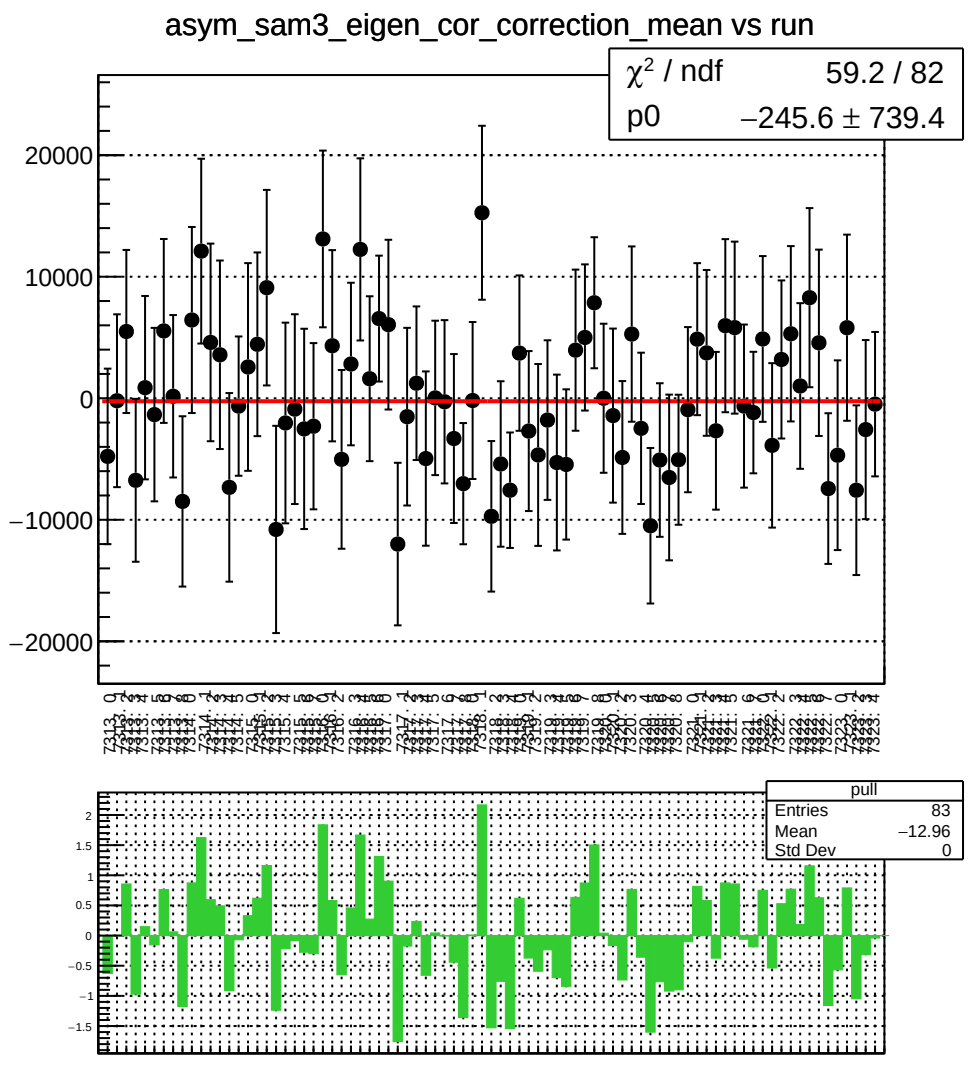

asym_sam3_cor_correction_mean vs run
χ² / ndf 59.2 / 82
p0 −245.6 ± 739.4
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −12.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

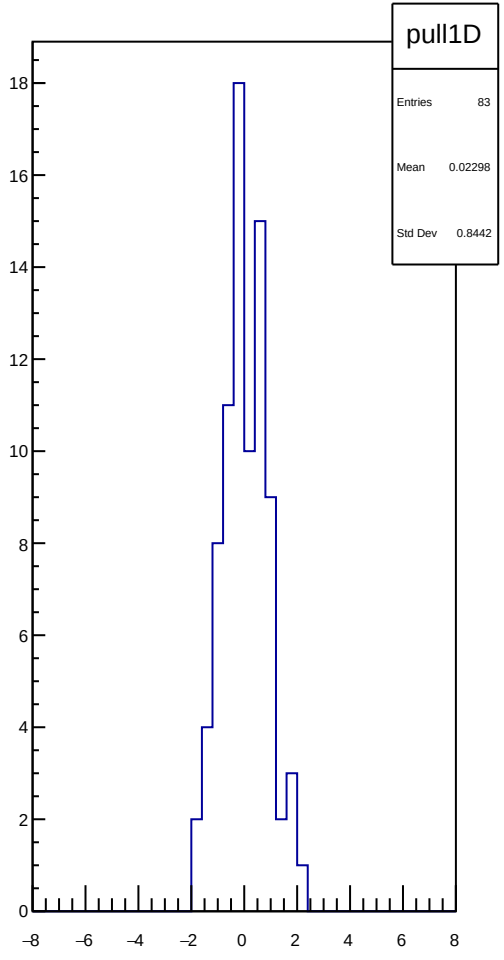

pull1D
Entries 83
Mean 0.02298
Std Dev 0.8442
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

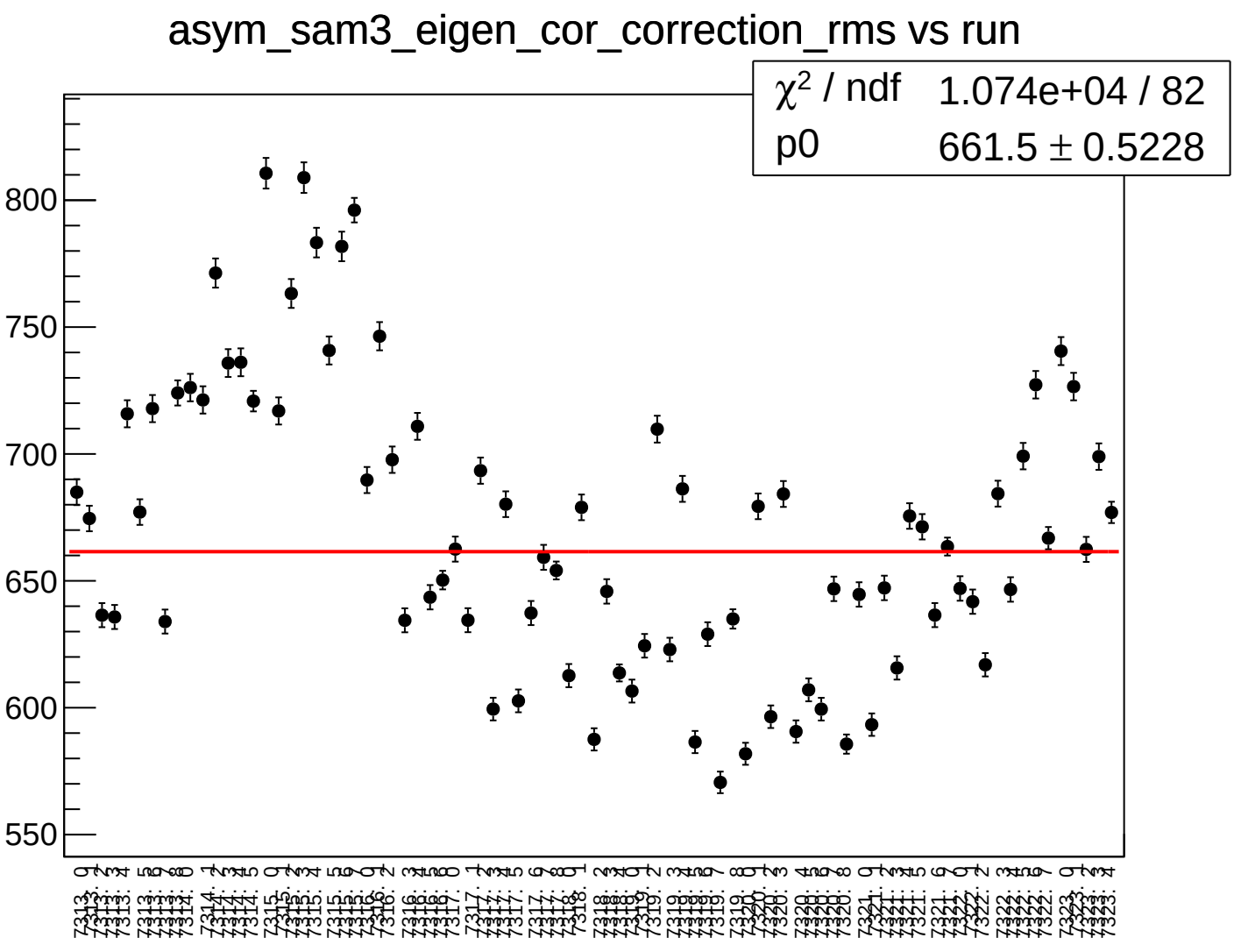

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.074e+04 / 82
p0 661.5 ± 0.5228
800
750
700
650
600
550

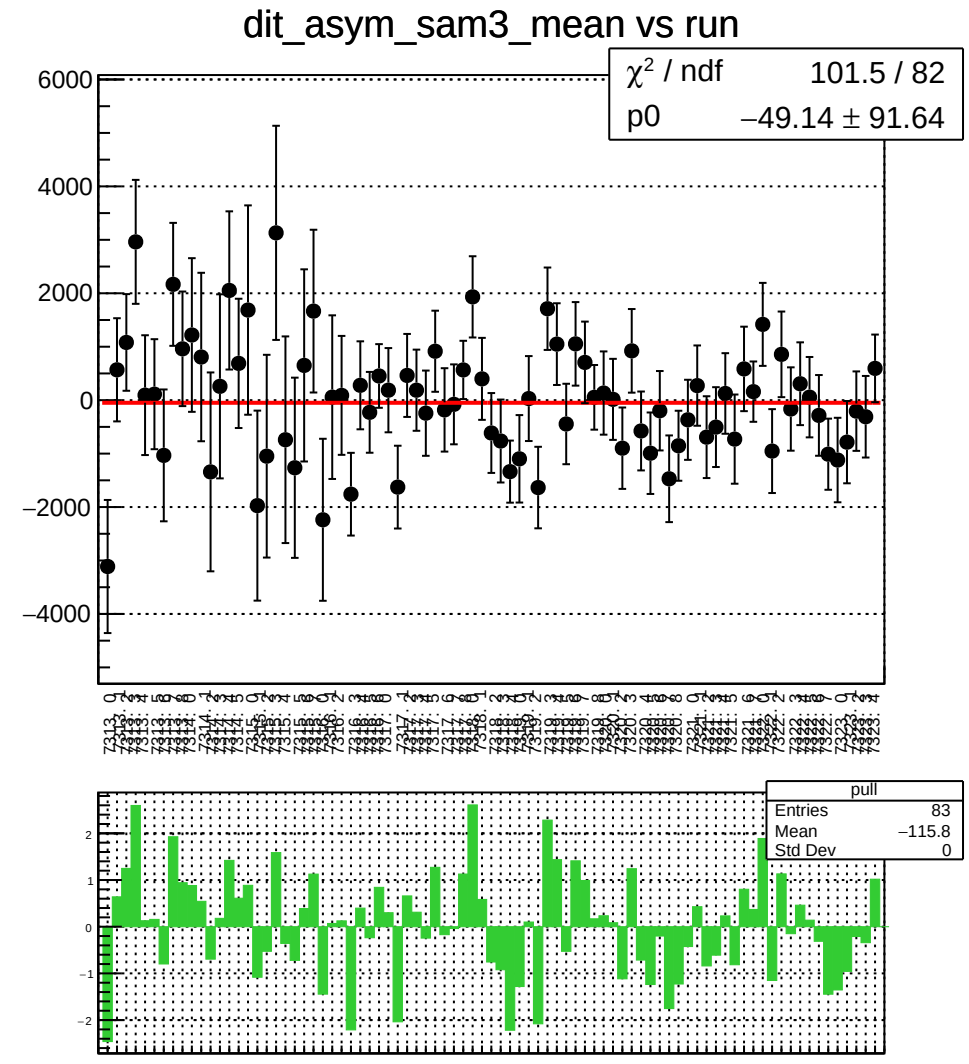

eigen_cor_asym_sam3_mean vs run
χ² / ndf 83.54 / 82
p0 11.19 ± 78.92
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −334.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.008197
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

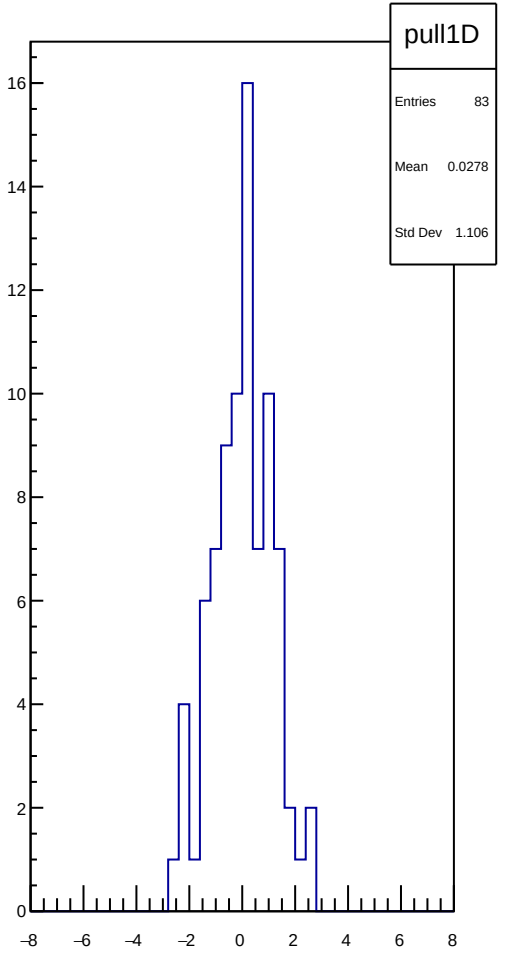

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.592e+04 / 82
p0 70.05 ± 0.0558
110
100
90
80
70
60

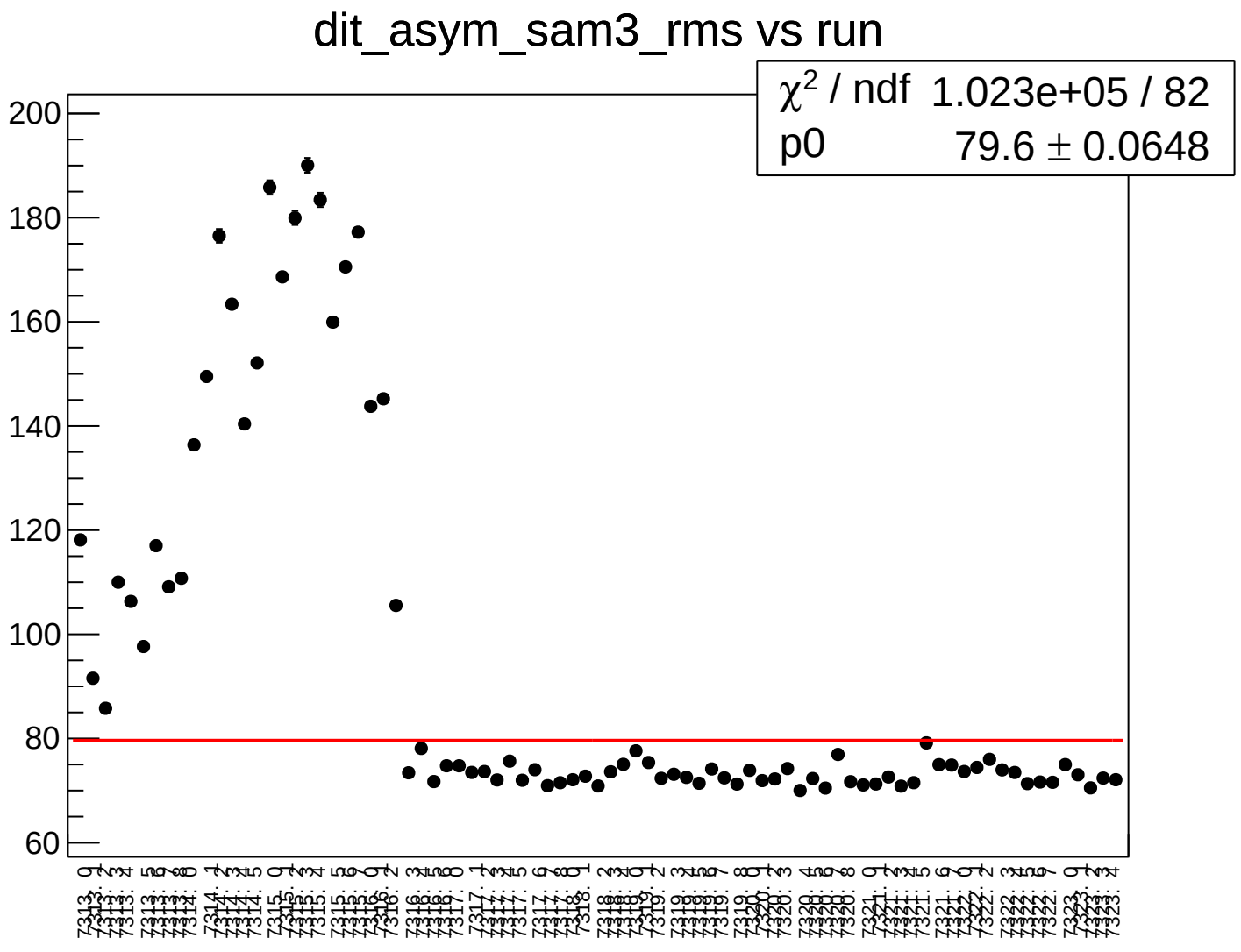

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 59.2 / 82
p0 −245.6 ± 739.4
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −12.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

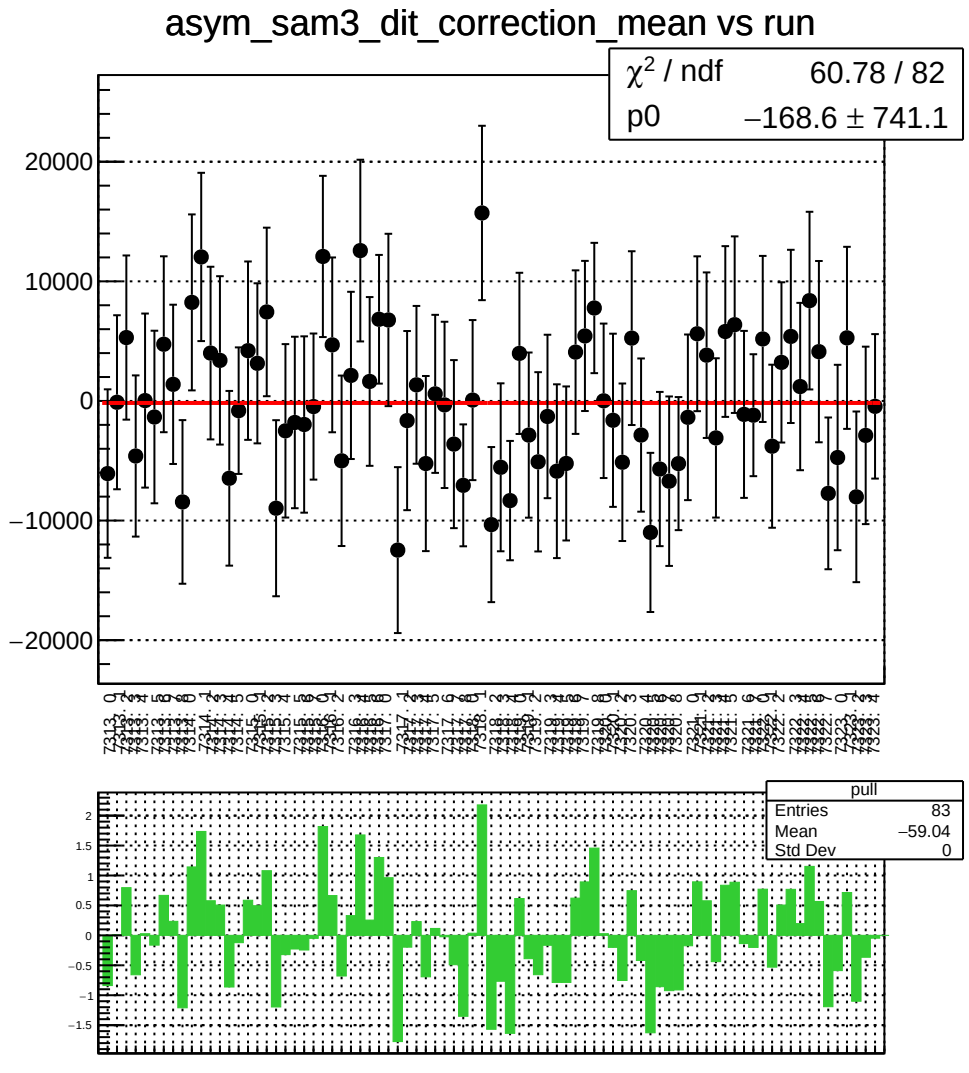

pull1D
Entries 83
Mean 0.02298
Std Dev 0.8442
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

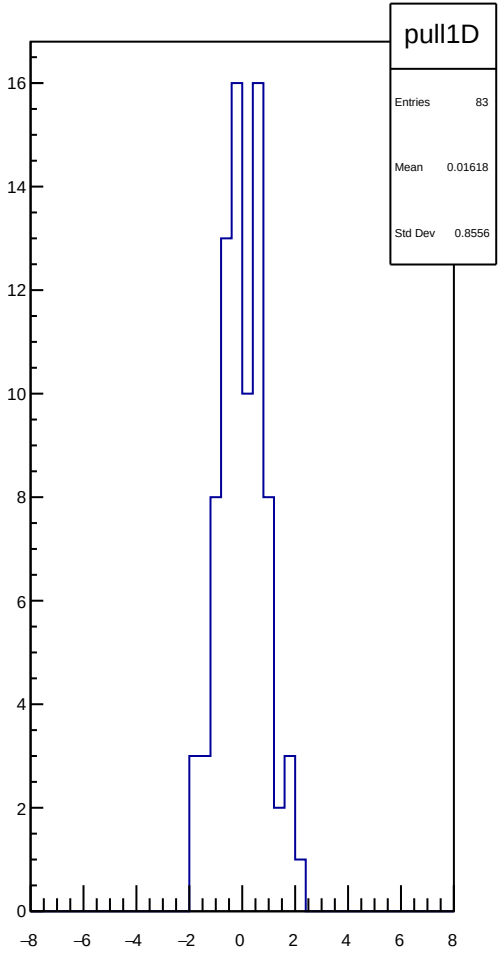

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.074e+04 / 82
p0 661.5 ± 0.5228
800
750
700
650
600
550

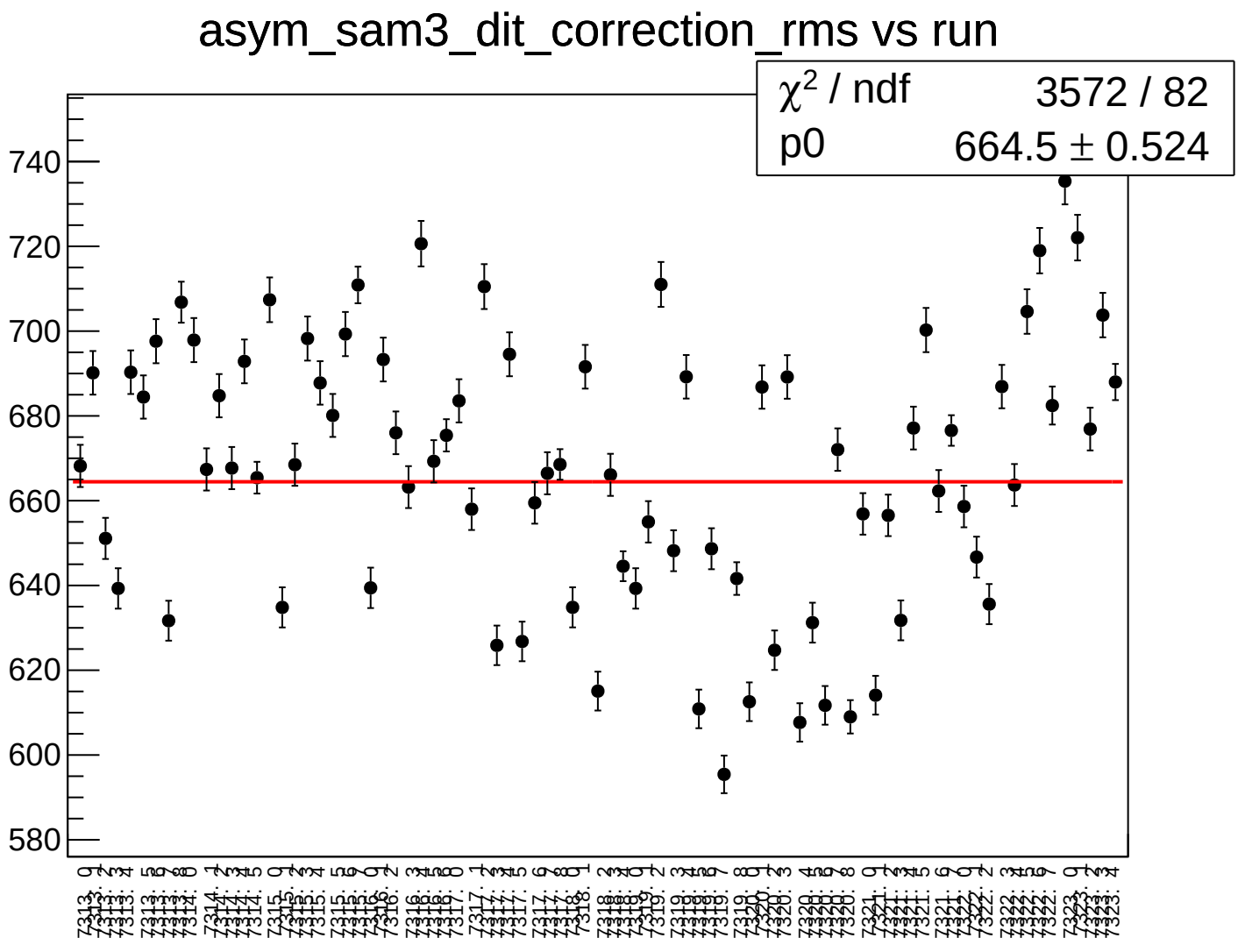

dit_asym_sam3_mean vs run
χ² / ndf 101.5 / 82
p0 −49.14 ± 91.64
pull
Entries 83
Mean −115.8
Std Dev 0

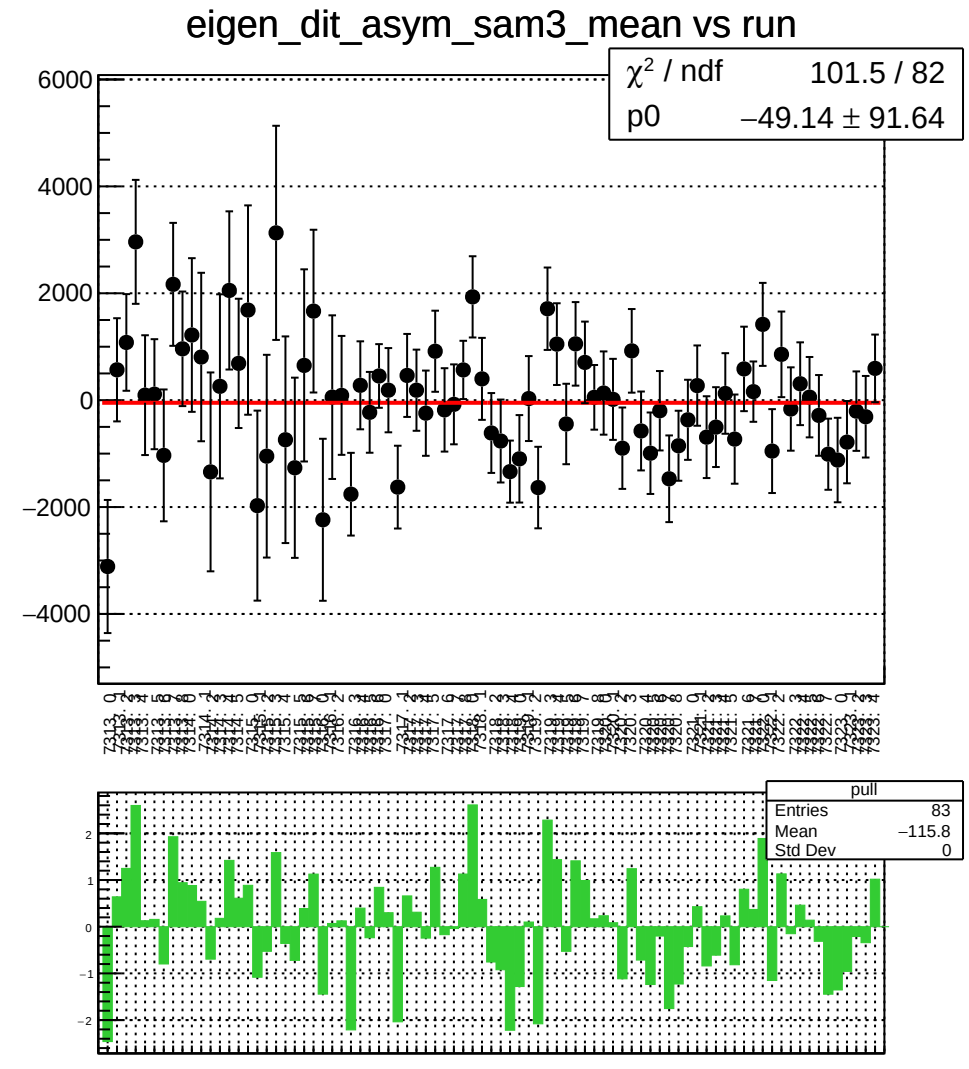

pull1D
Entries 83
Mean 0.0278
Std Dev 1.106

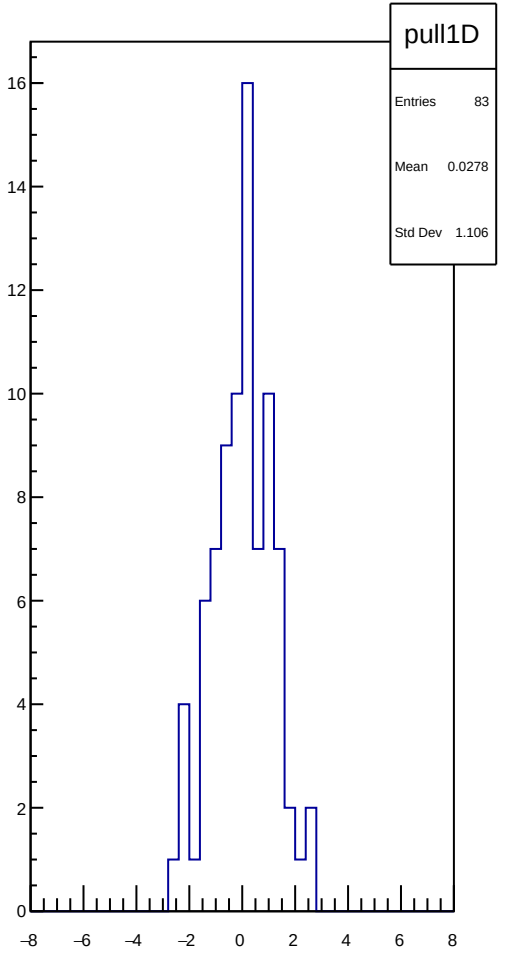

dit_asym_sam3_rms vs run
χ² / ndf 1.023e+05 / 82
p0 79.6 ± 0.0648
200
180
160
140
120
100
80
60

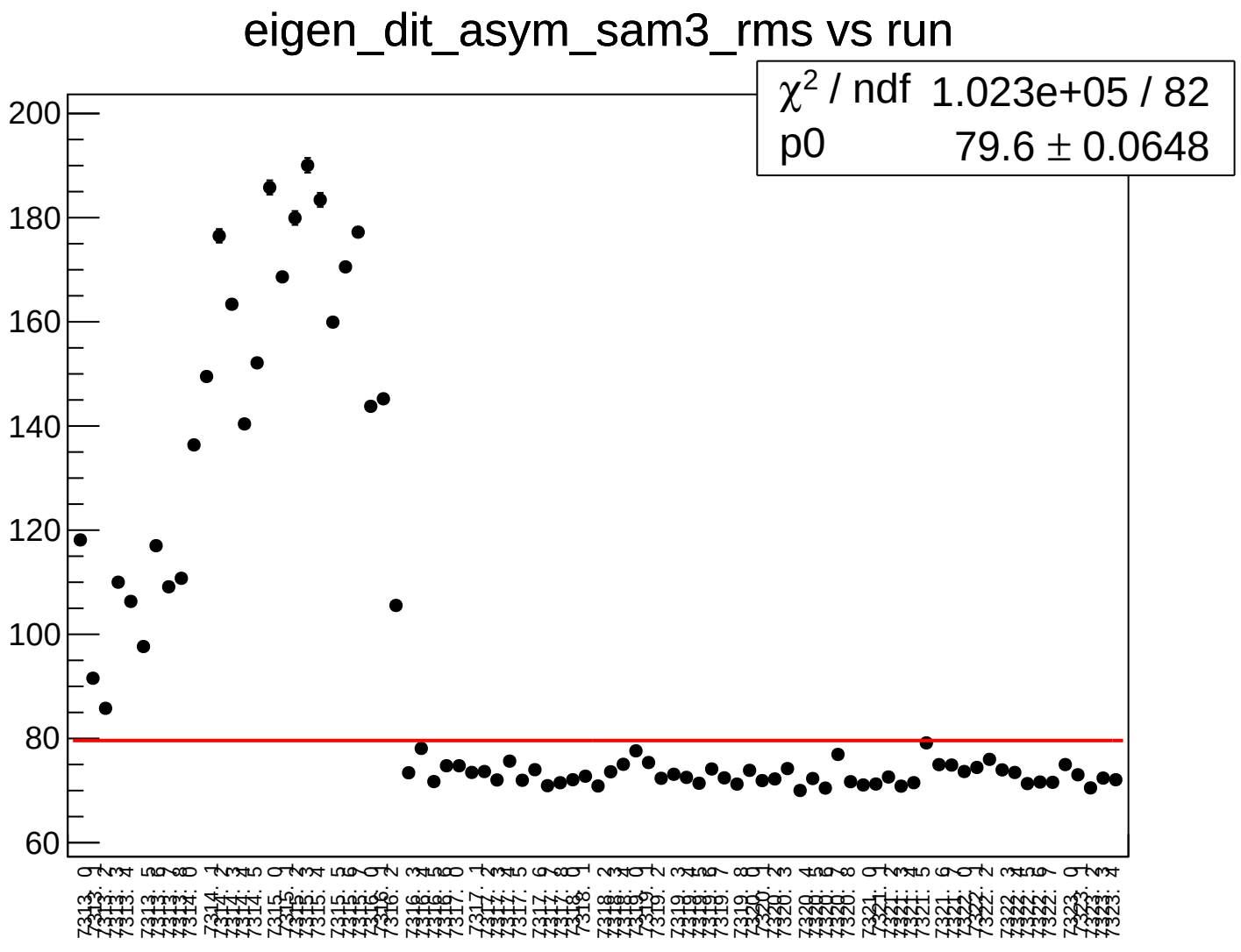

asym_sam3_dit_correction_mean vs run
χ² / ndf 60.78 / 82
p0 −168.6 ± 741.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −59.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

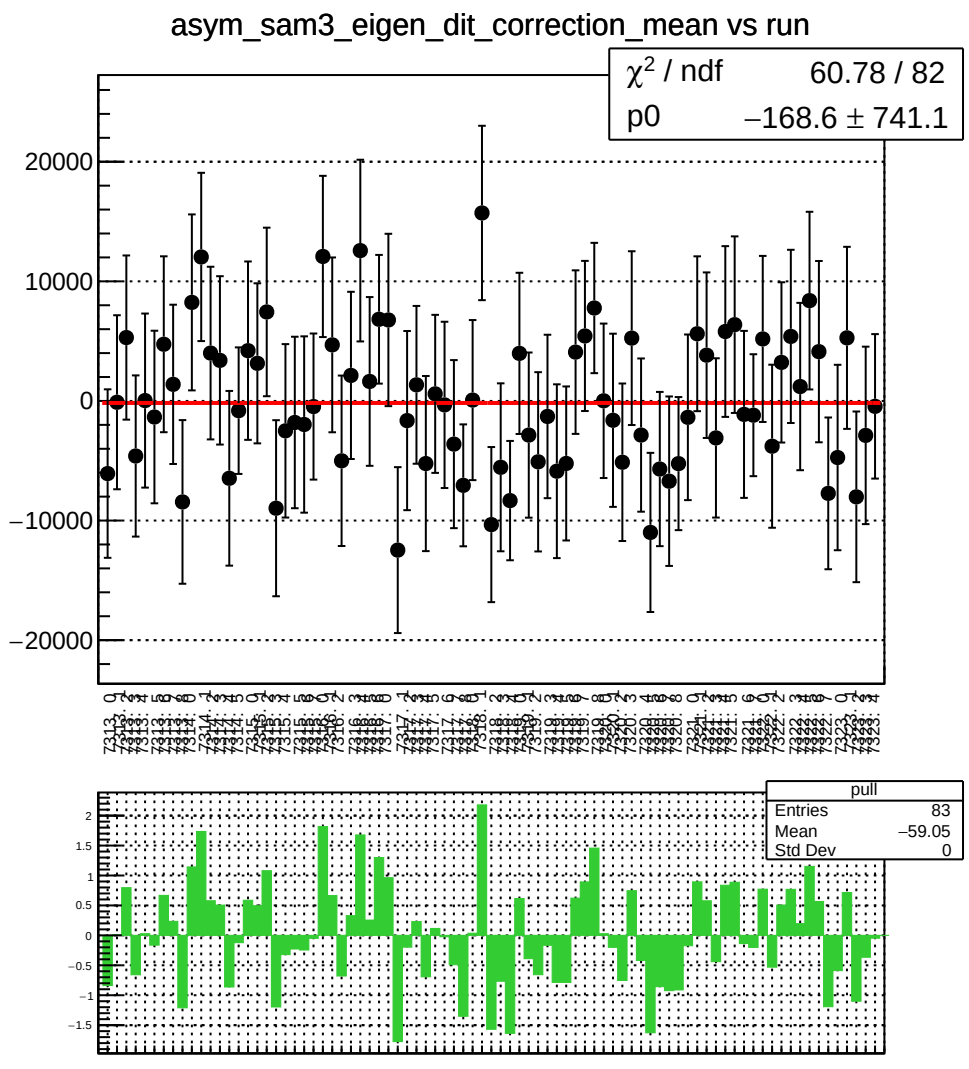

pull1D
Entries 83
Mean 0.01618
Std Dev 0.8556
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

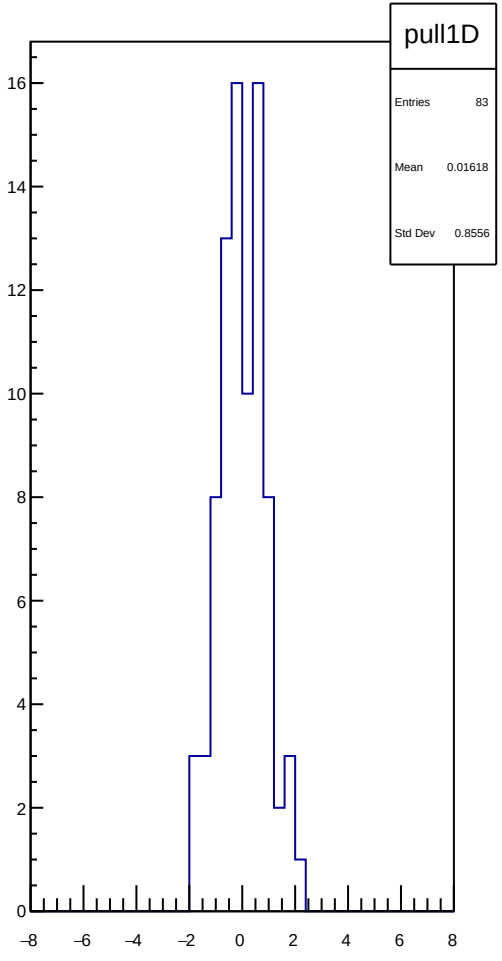

asym_sam3_dit_correction_rms vs run
χ² / ndf 3572 / 82
p0 664.5 ± 0.524
740
720
700
680
660
640
620
600
580

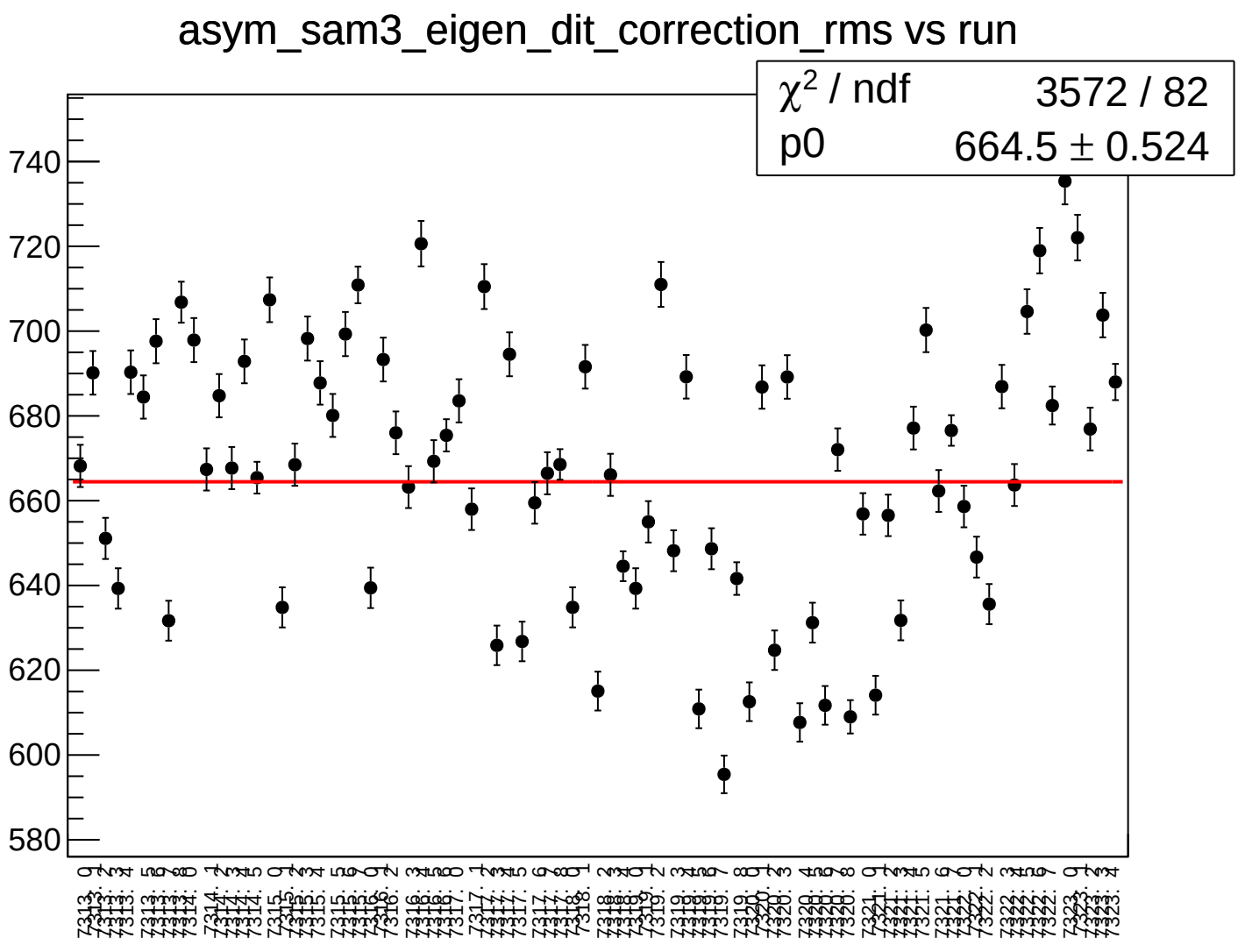

eigen_dit_asym_sam3_mean vs run
χ² / ndf 101.5 / 82
p0 −49.14 ± 91.64
pull
Entries 83
Mean −115.8
Std Dev 0

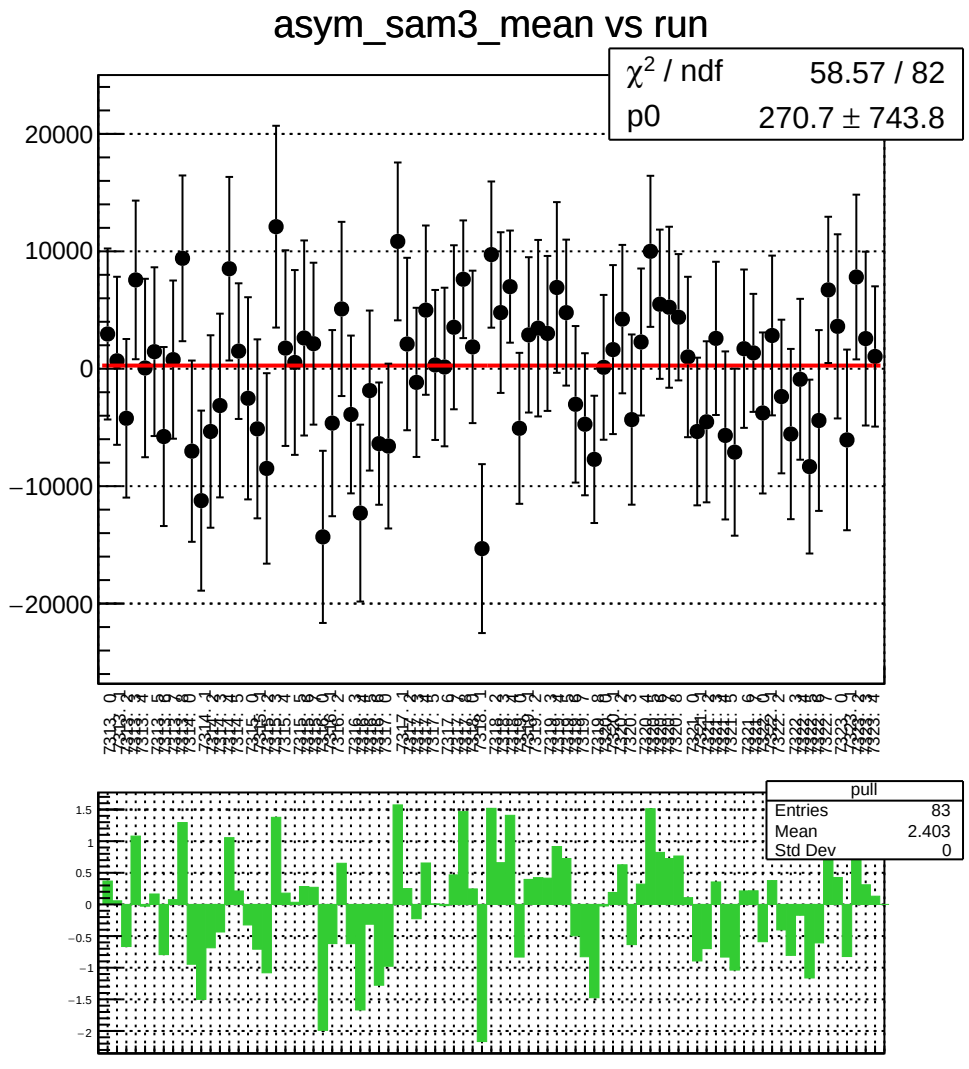

pull1D
Entries 83
Mean 0.0278
Std Dev 1.106

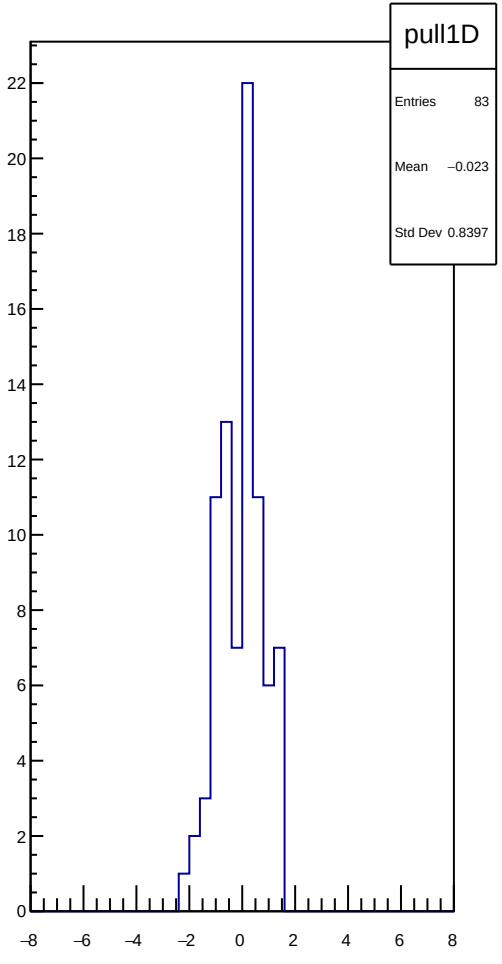

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.023e+05 / 82
p0 79.6 ± 0.0648
200
180
160
140
120
100
80
60

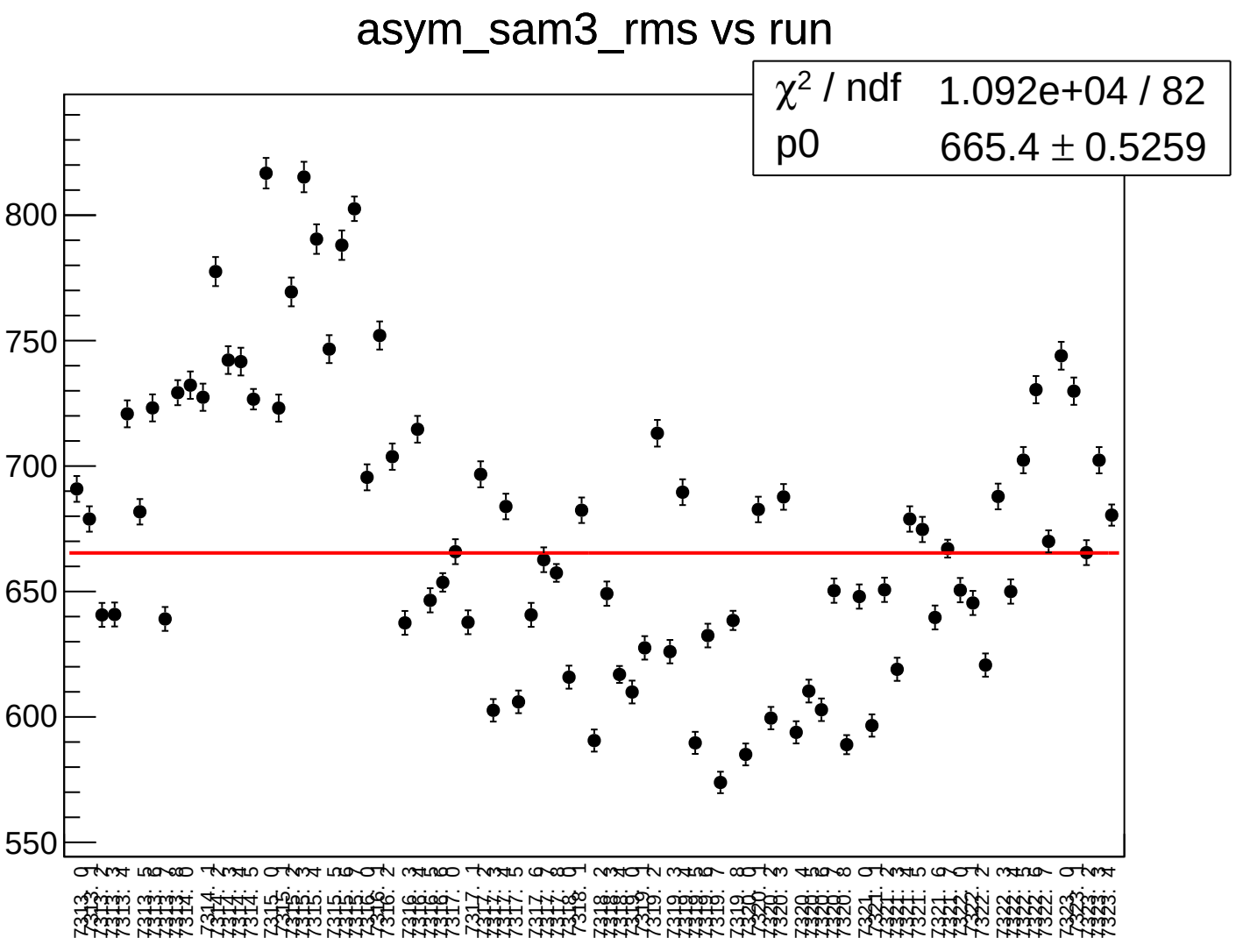

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 60.78 / 82
p0 −168.6 ± 741.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −59.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

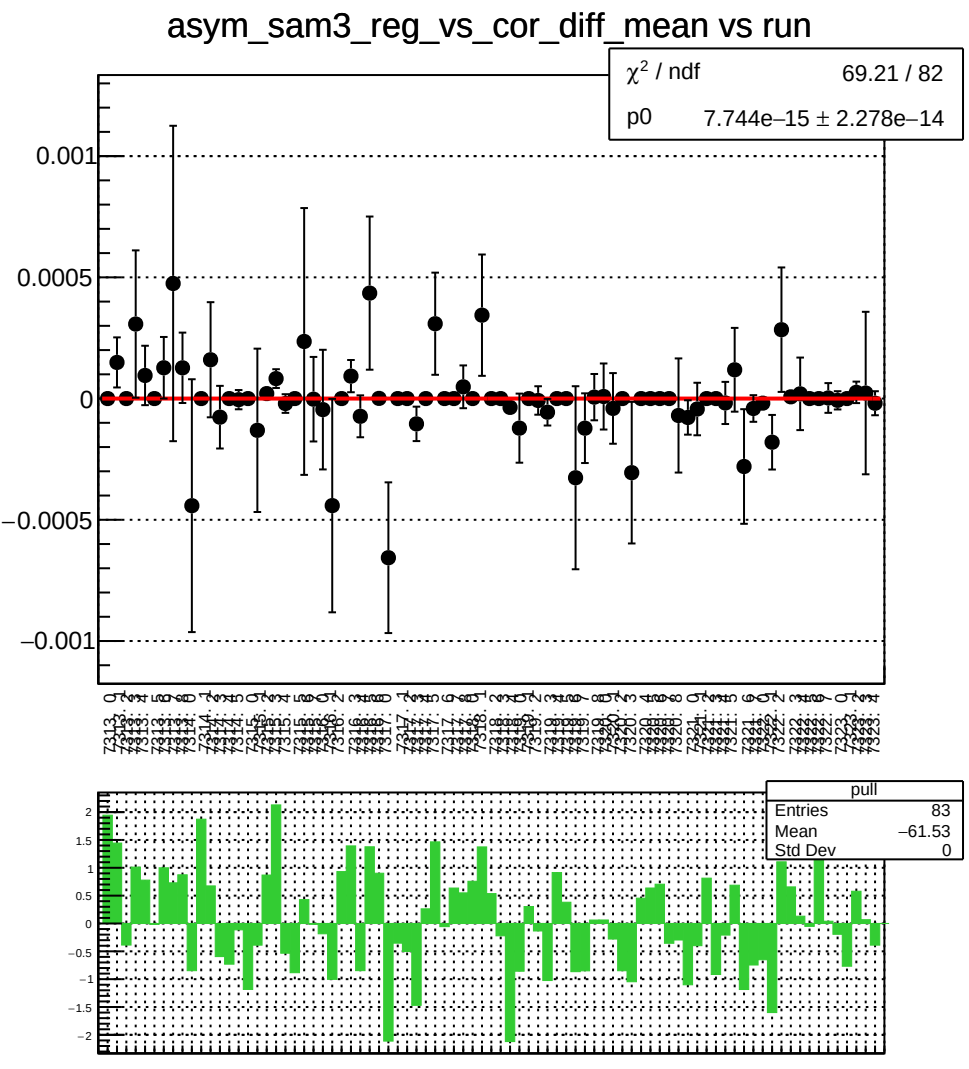

pull1D
Entries 83
Mean 0.01618
Std Dev 0.8556
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

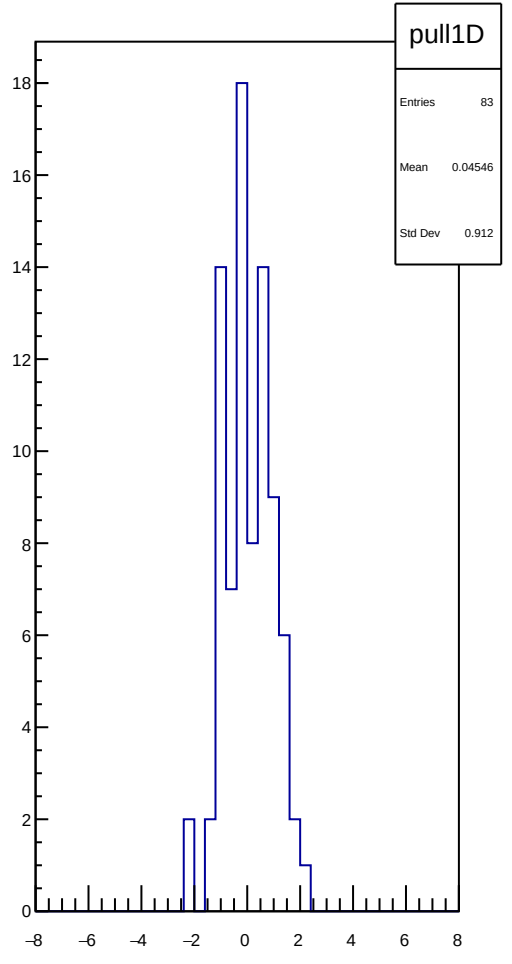

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3572 / 82
p0 664.5 ± 0.524
740
720
700
680
660
640
620
600
580

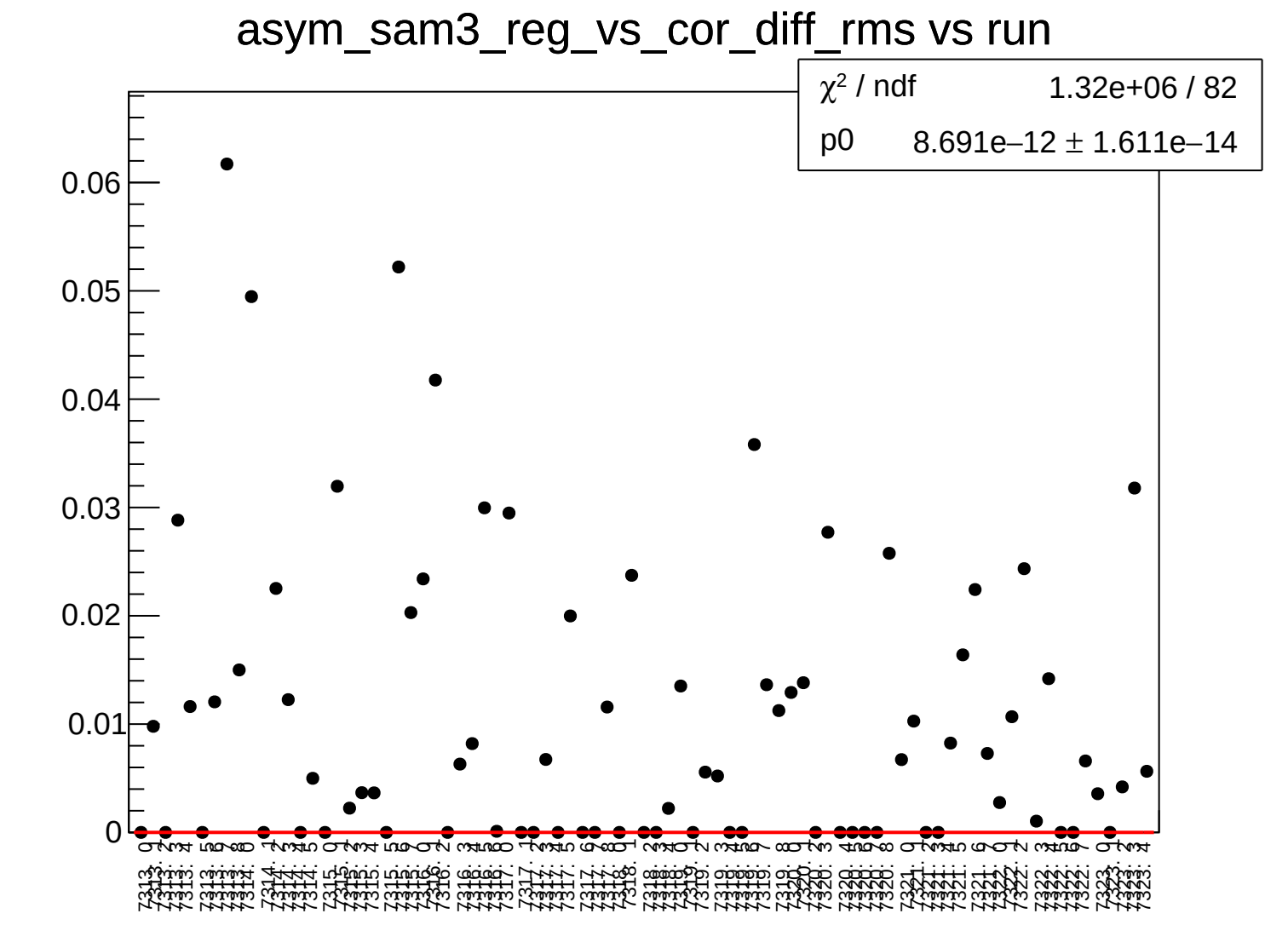

asym_sam3_mean vs run
χ² / ndf 58.57 / 82
p0 270.7 ± 743.8
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 2.403
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

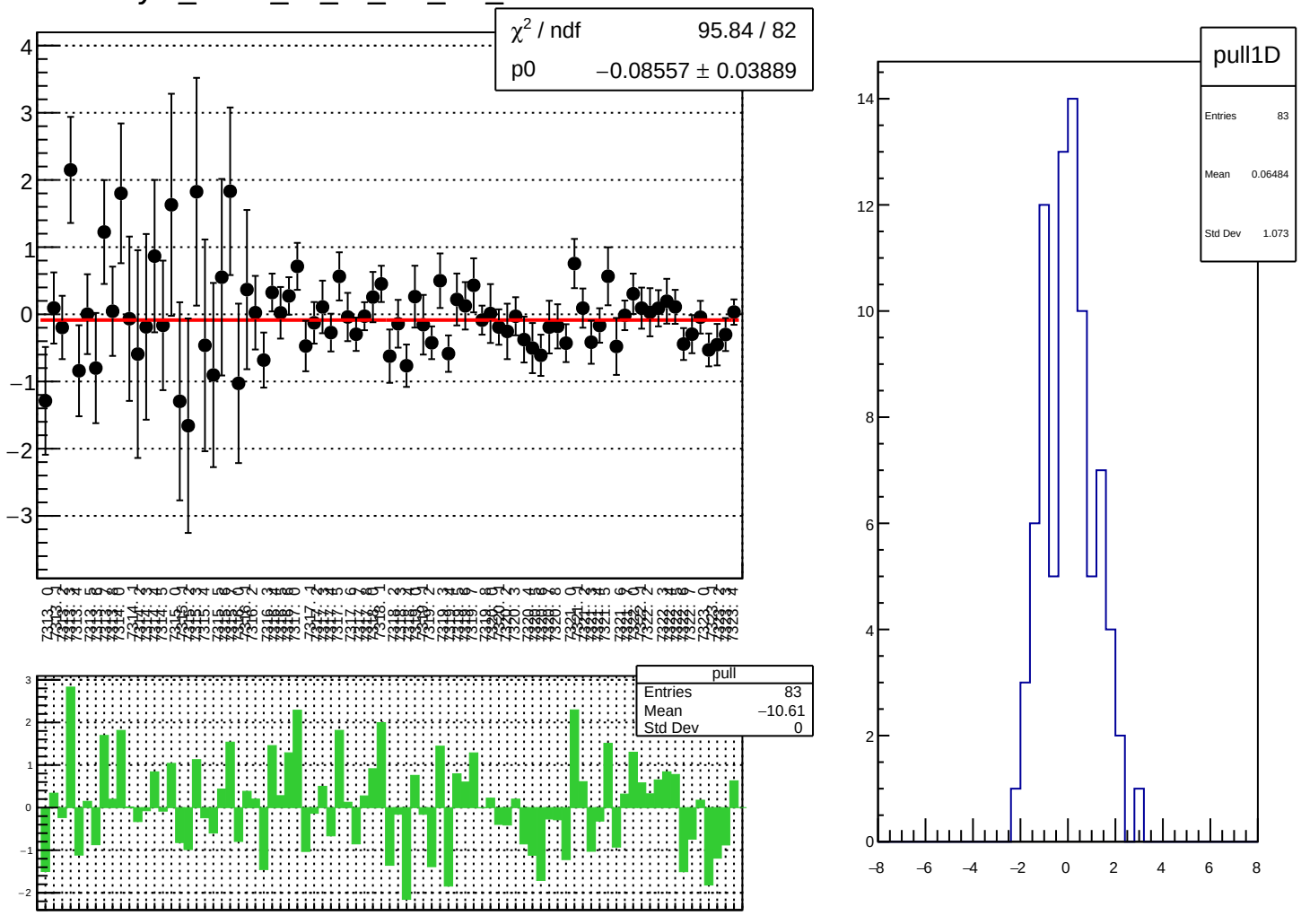

pull1D
Entries 83
Mean −0.023
Std Dev 0.8397
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

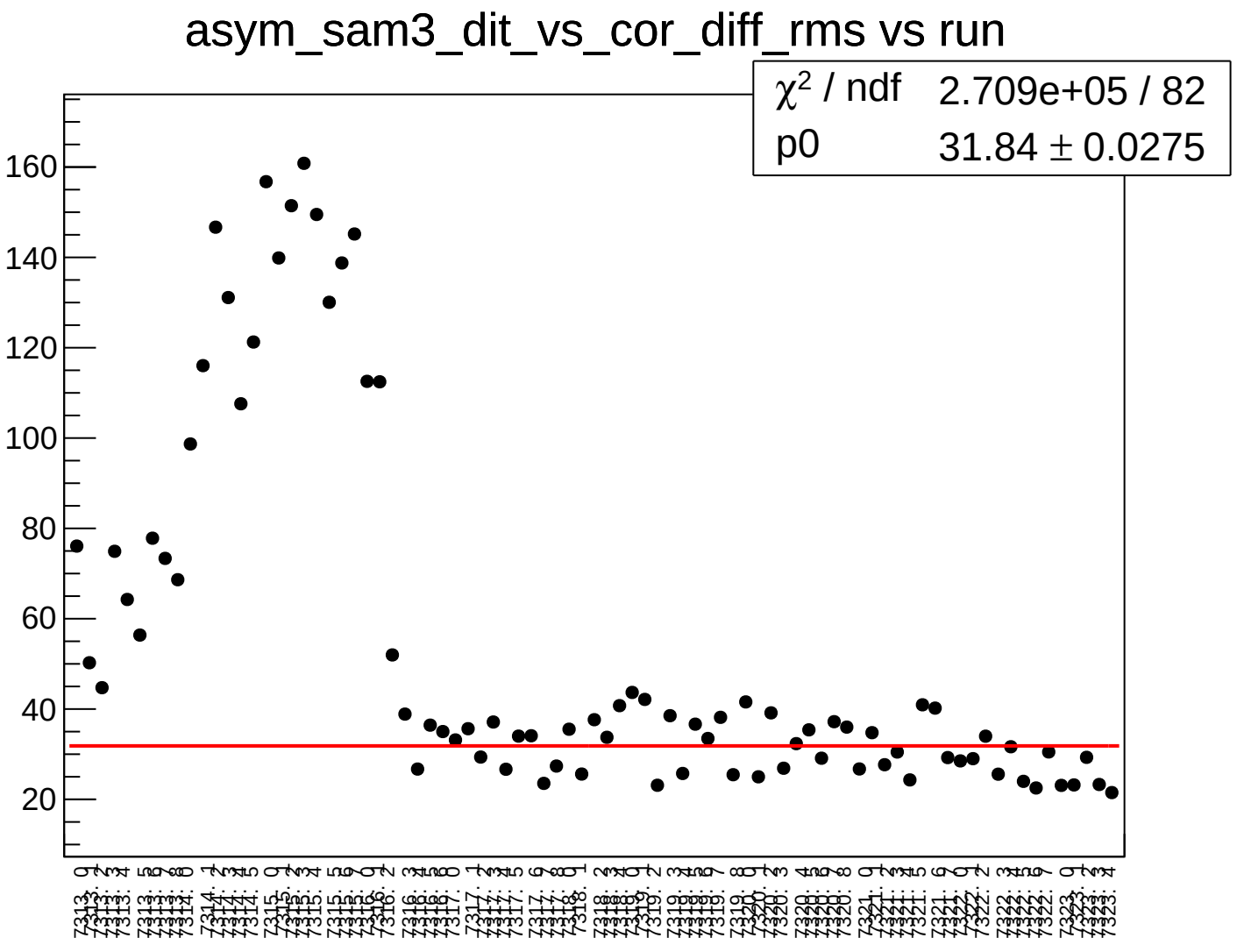

asym_sam3_rms vs run
χ² / ndf 1.092e+04 / 82
p0 665.4 ± 0.5259
800
750
700
650
600
550

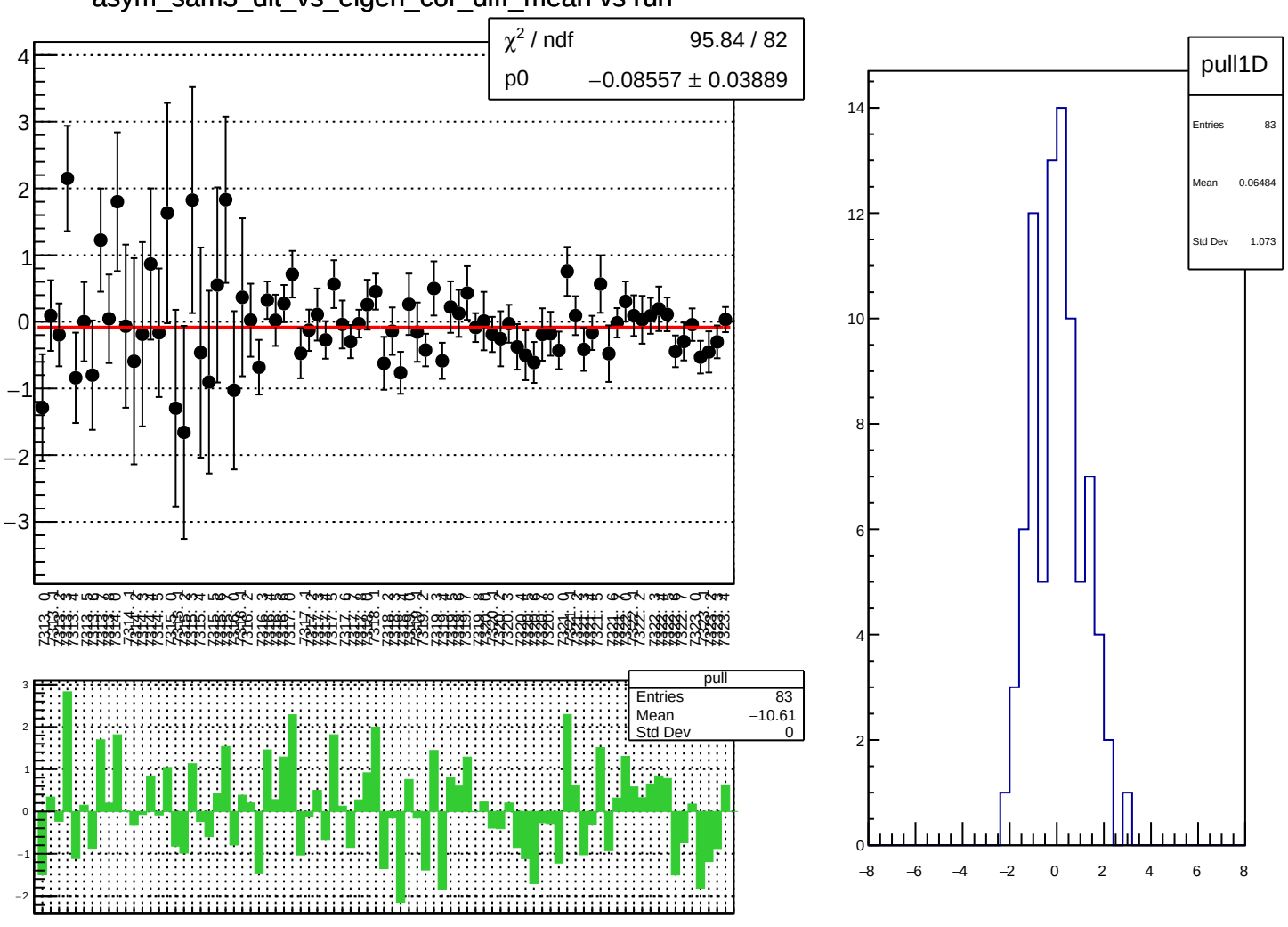

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 69.21 / 82
p0 7.744e−15 ± 2.278e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean −61.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

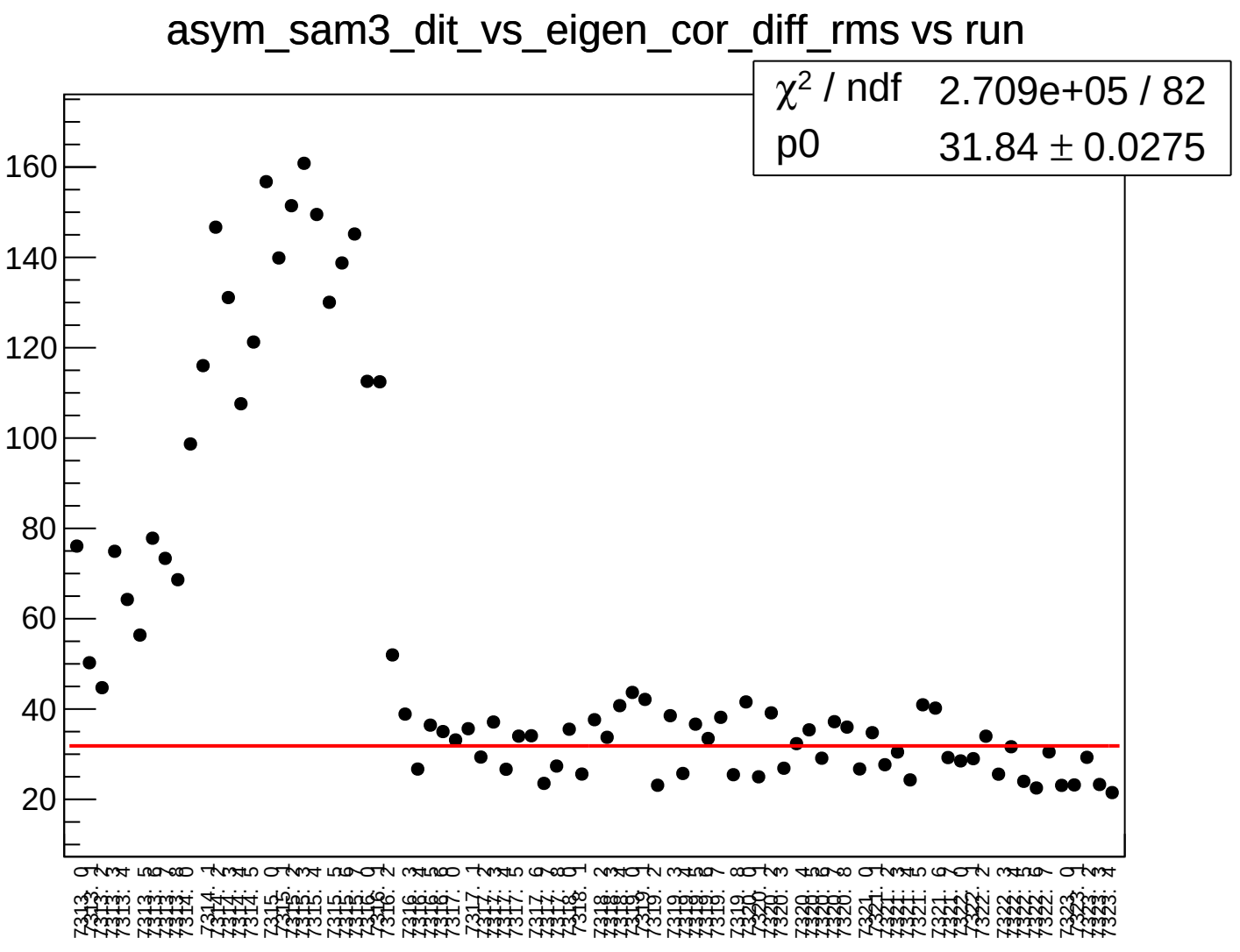

pull1D
Entries 83
Mean 0.04546
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

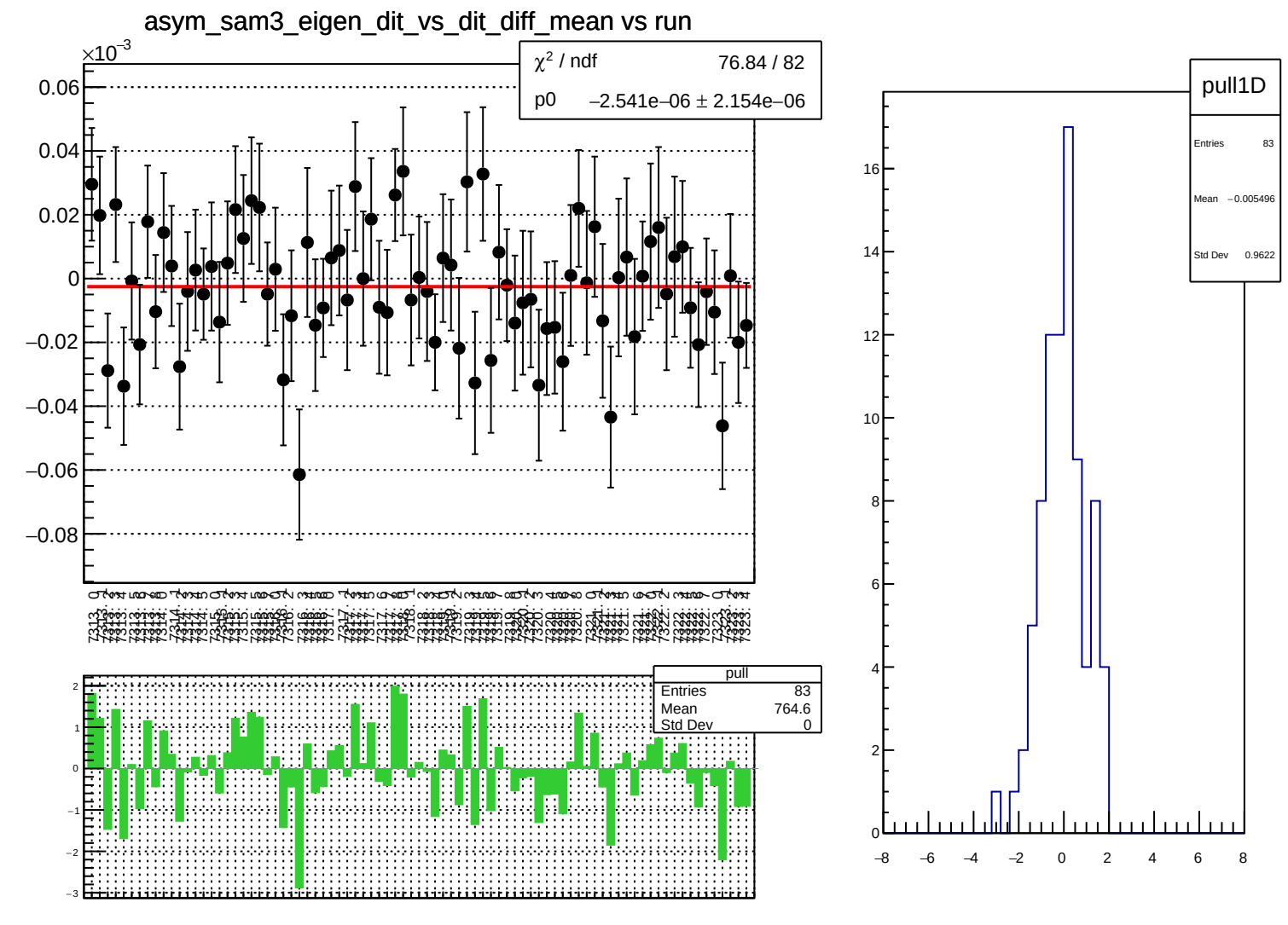

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.32e+06 / 82
p0 8.691e−12 ± 1.611e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

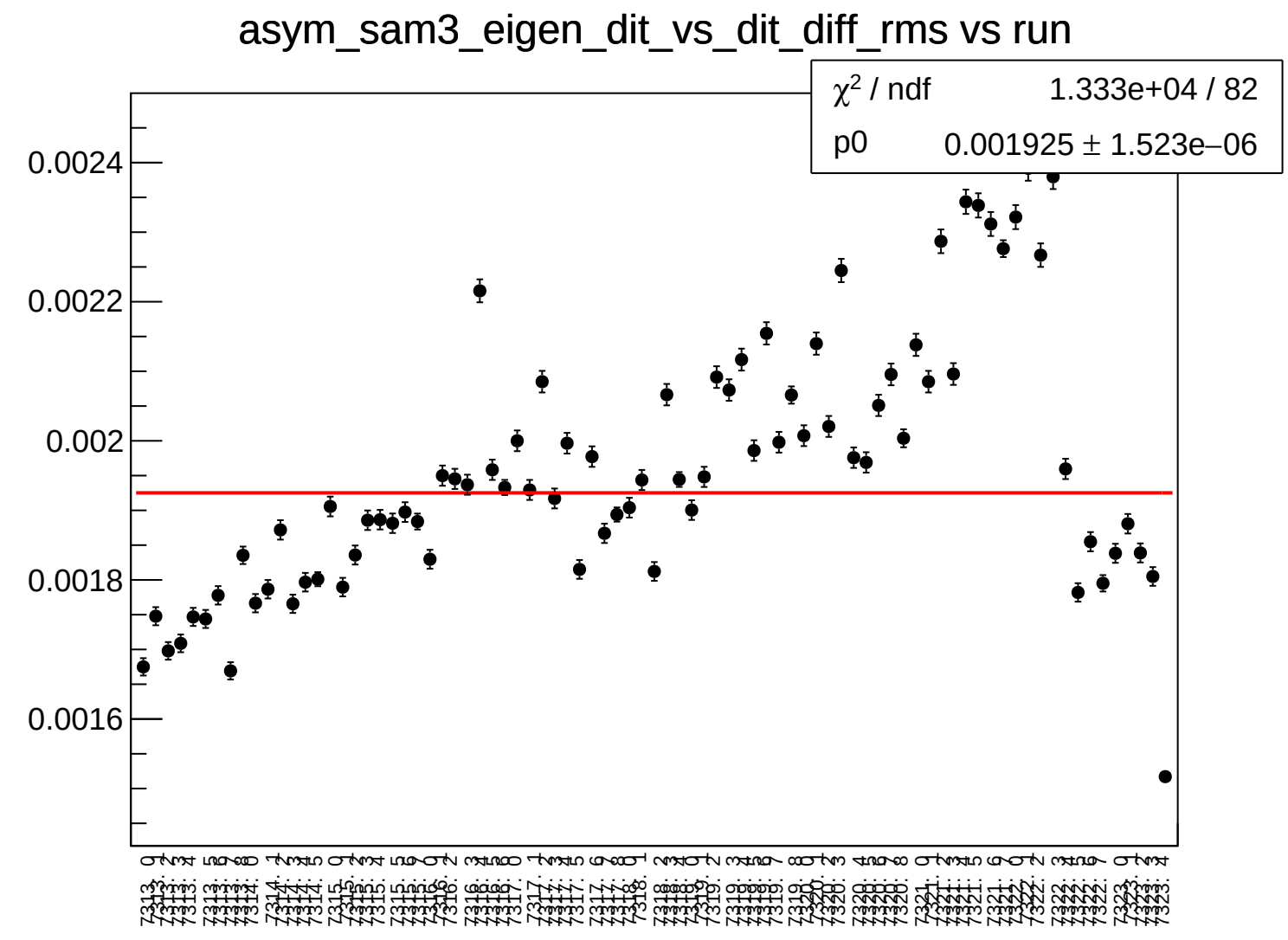

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 95.84 / 82
p0 −0.08557 ± 0.03889
pull
Entries 83
Mean −10.61
Std Dev 0
pull1D
Entries 83
Mean 0.06484
Std Dev 1.073

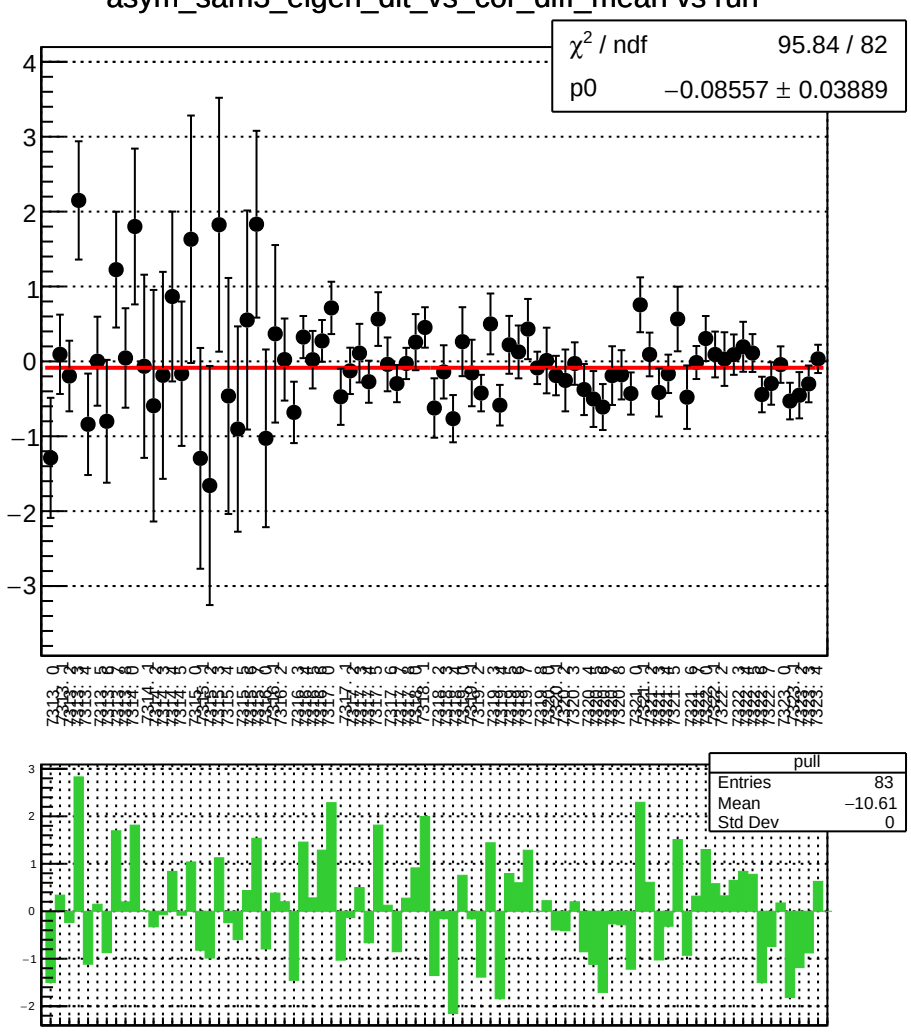

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.709e+05 / 82
p0 31.84 ± 0.0275
160
140
120
100
80
60
40
20

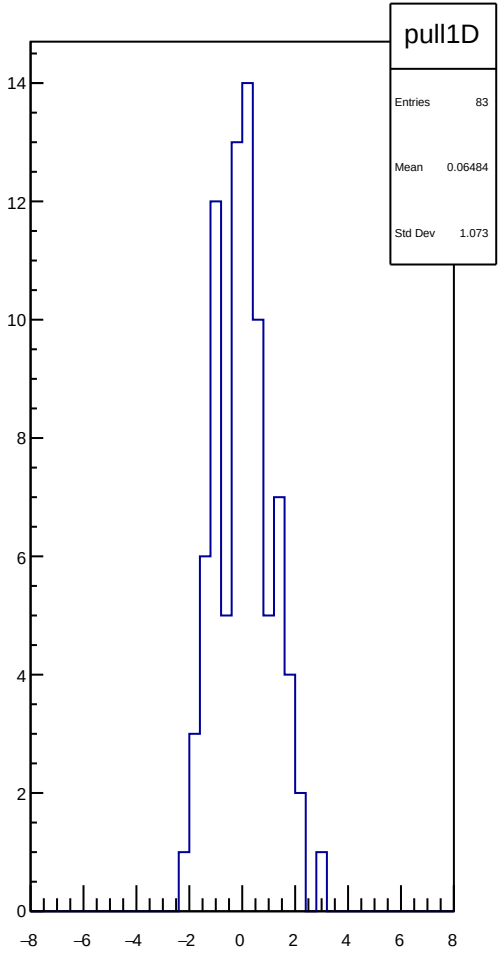

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.84 / 82
p0 −0.08557 ± 0.03889
pull
Entries 83
Mean −10.61
Std Dev 0
pull1D
Entries 83
Mean 0.06484
Std Dev 1.073

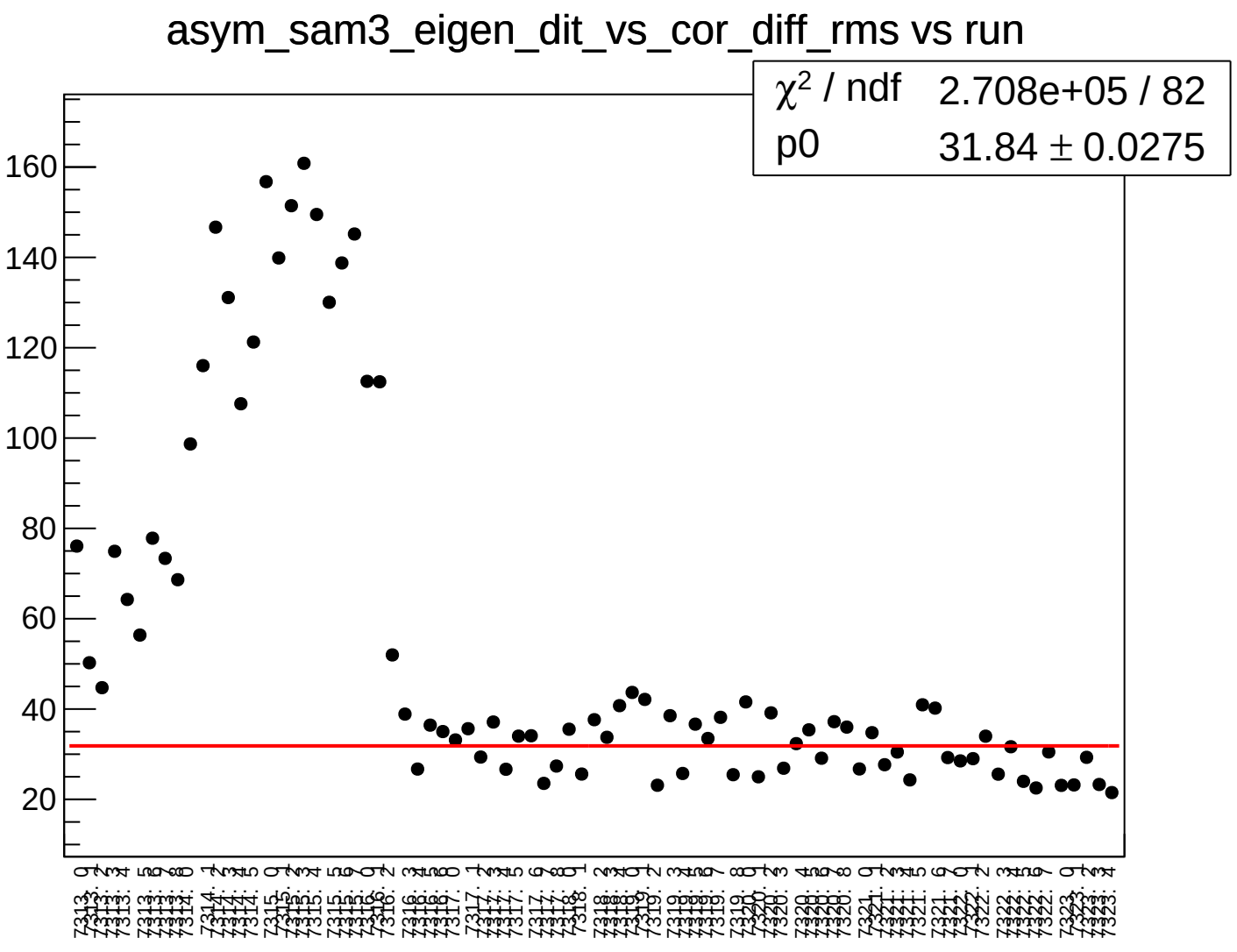

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.709e+05 / 82
p0 31.84 ± 0.0275
160
140
120
100
80
60
40
20

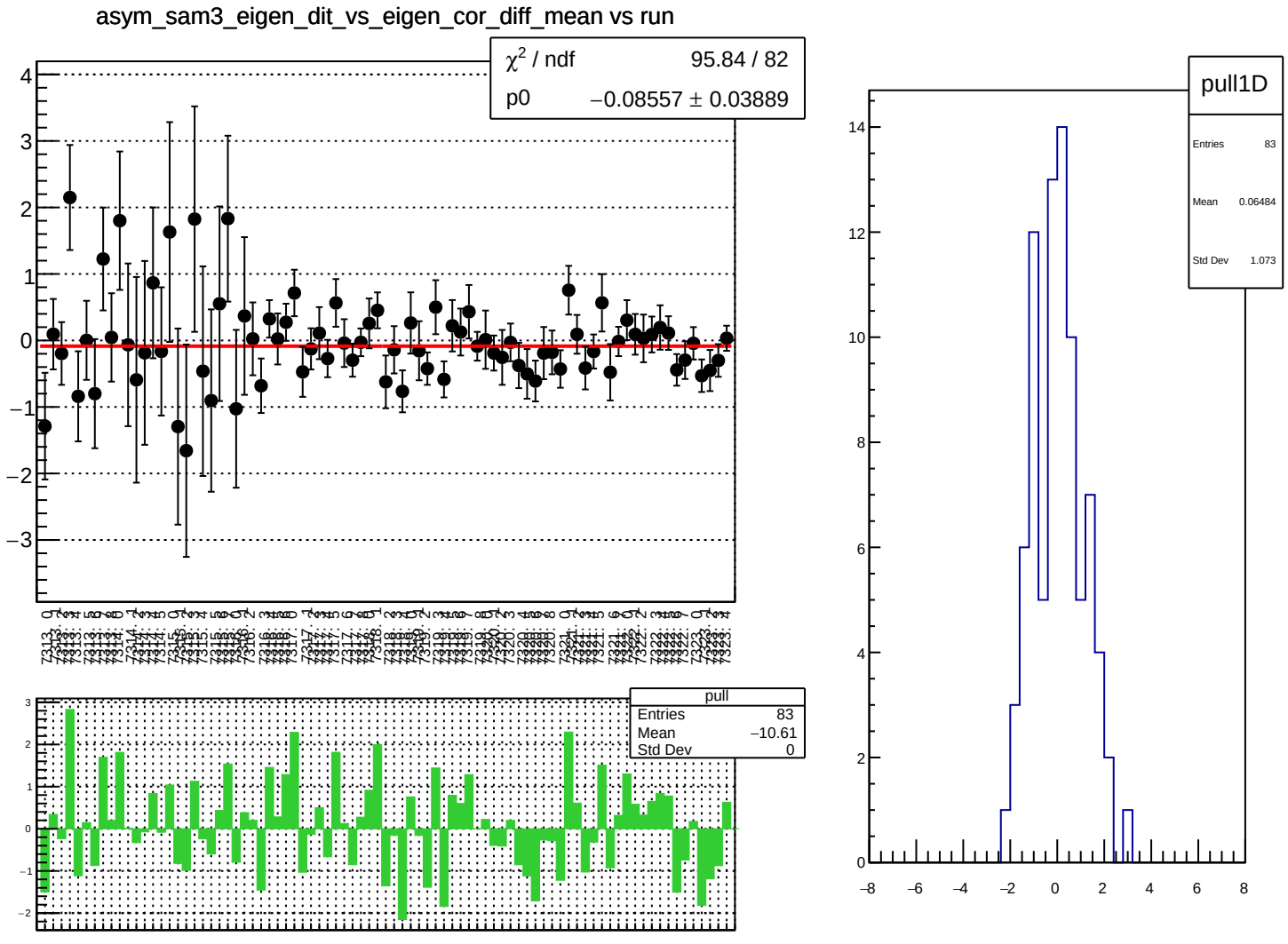

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.84 / 82
p0 −2.541e−06 ± 2.154e−06
pull
Entries 83
Mean 764.6
Std Dev 0
pull1D
Entries 83
Mean −0.005496
Std Dev 0.9622

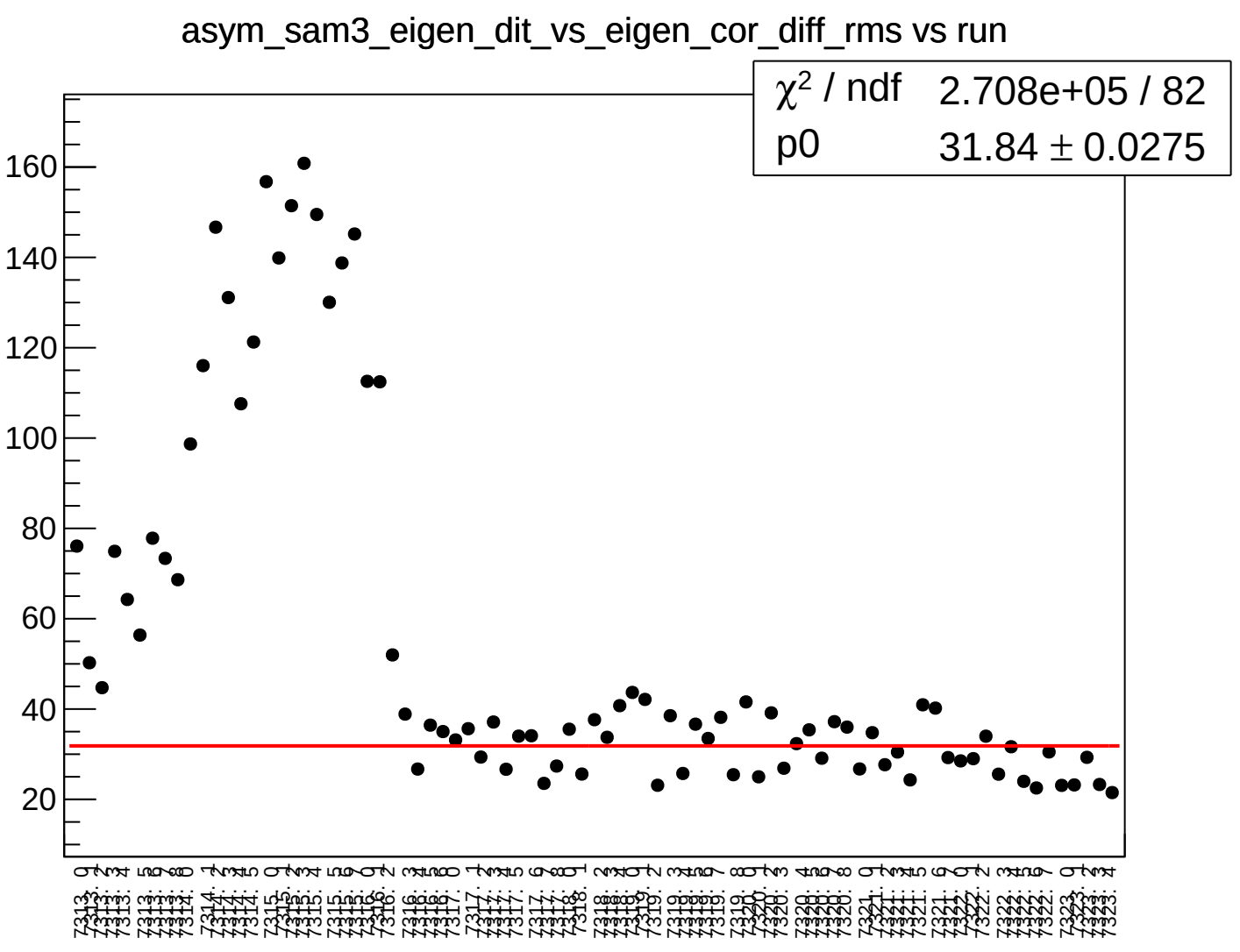

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.333e+04 / 82
p0 0.001925 ± 1.523e−06
0.0024
0.0022
0.002
0.0018
0.0016

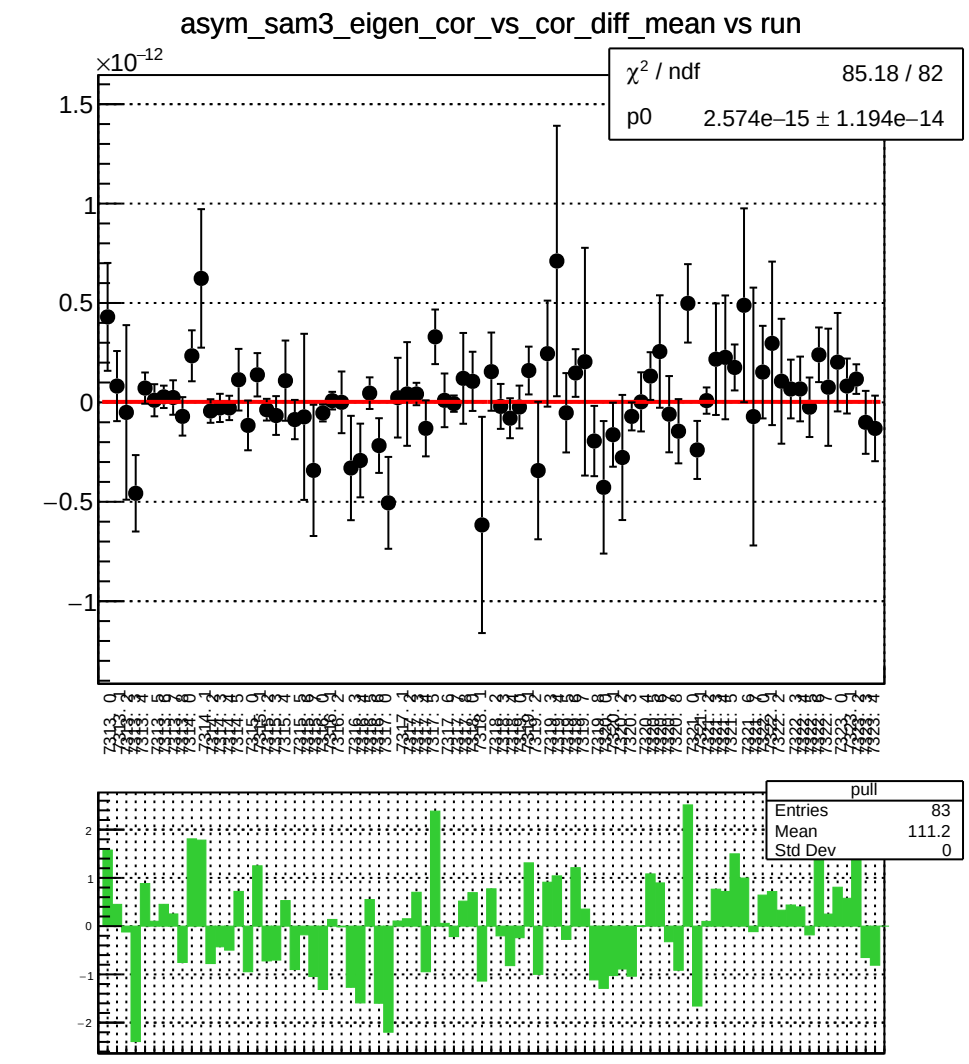

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.84 / 82
p0 −0.08557 ± 0.03889
pull
Entries 83
Mean −10.61
Std Dev 0

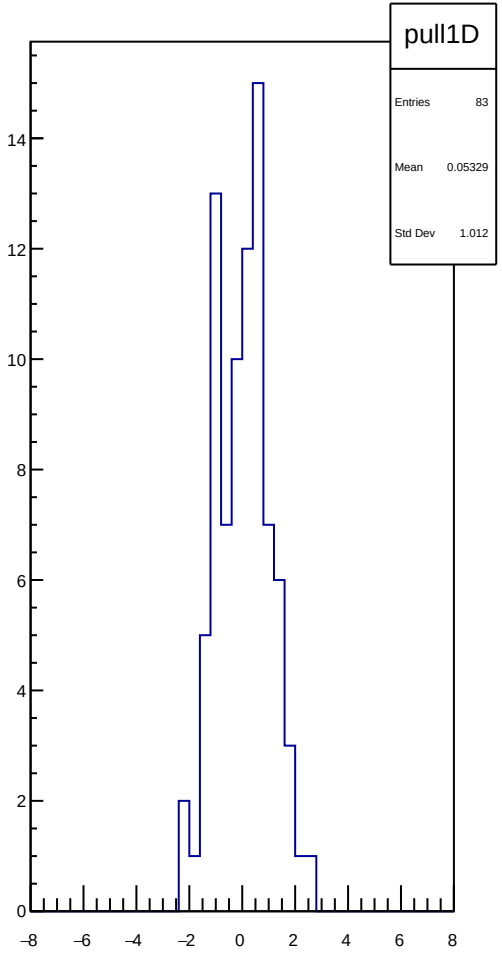

pull1D
Entries 83
Mean 0.06484
Std Dev 1.073

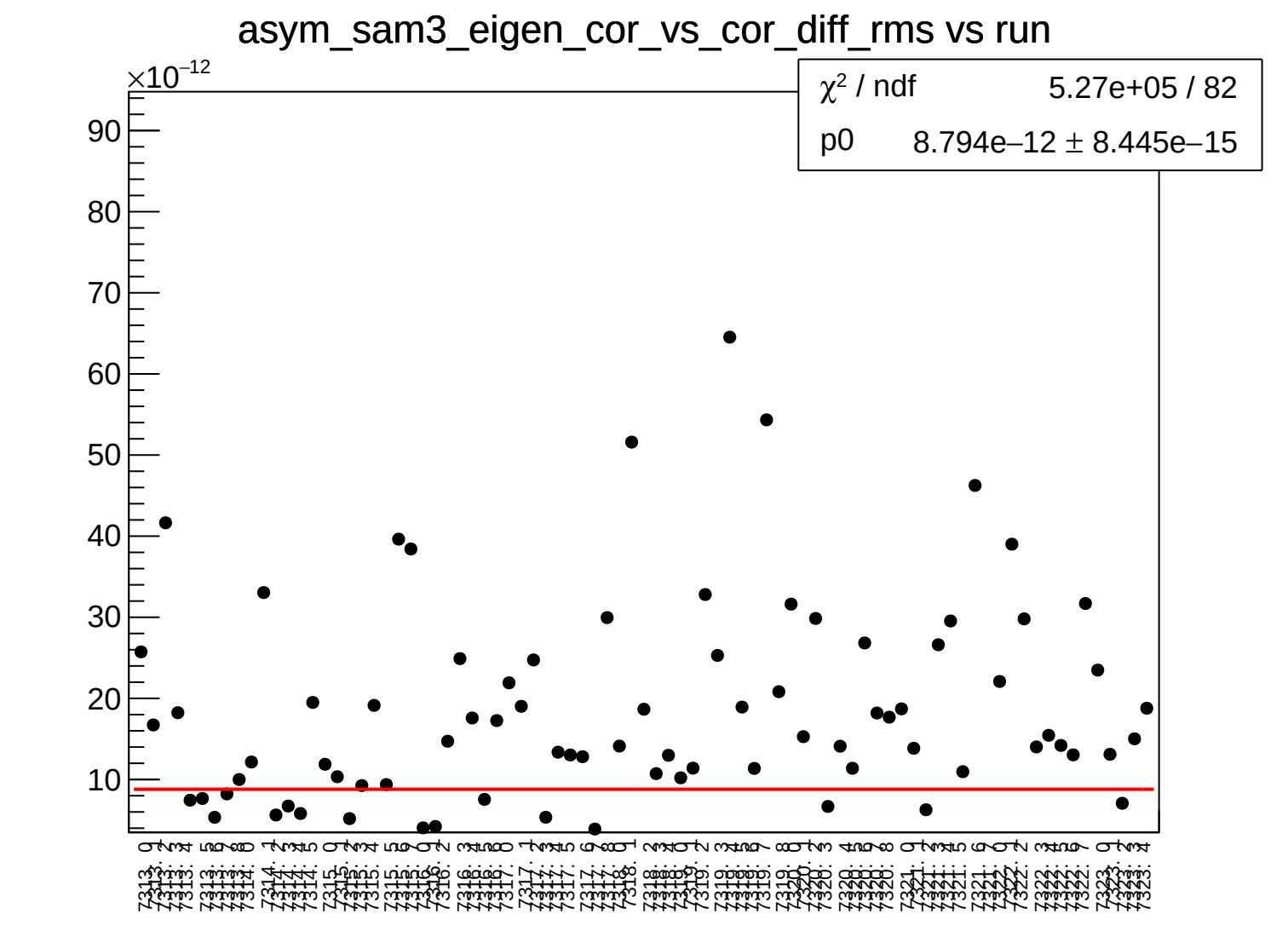

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.708e+05 / 82
p0 31.84 ± 0.0275
160
140
120
100
80
60
40
20

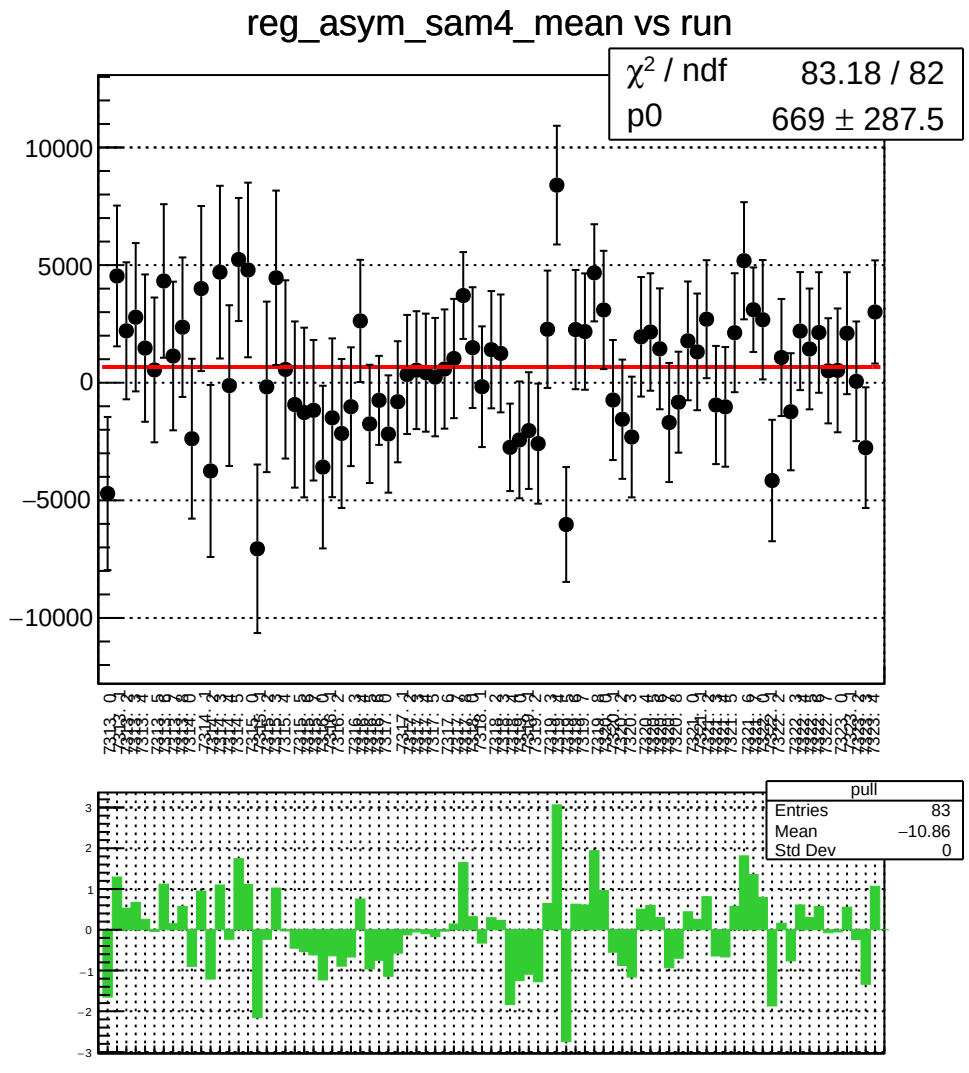

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.84 / 82
p0 −0.08557 ± 0.03889
pull
Entries 83
Mean −10.61
Std Dev 0
pull1D
Entries 83
Mean 0.06484
Std Dev 1.073

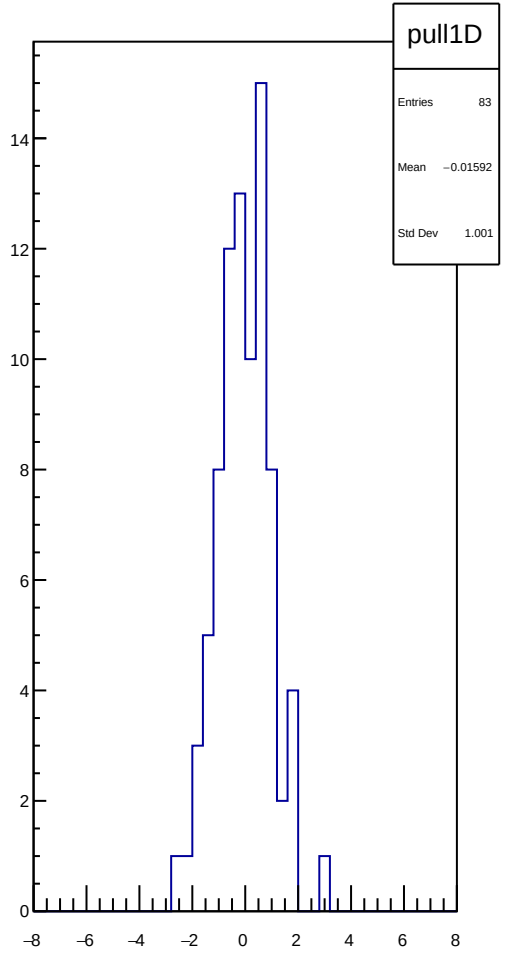

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.708e+05 / 82
p0 31.84 ± 0.0275
160
140
120
100
80
60
40
20

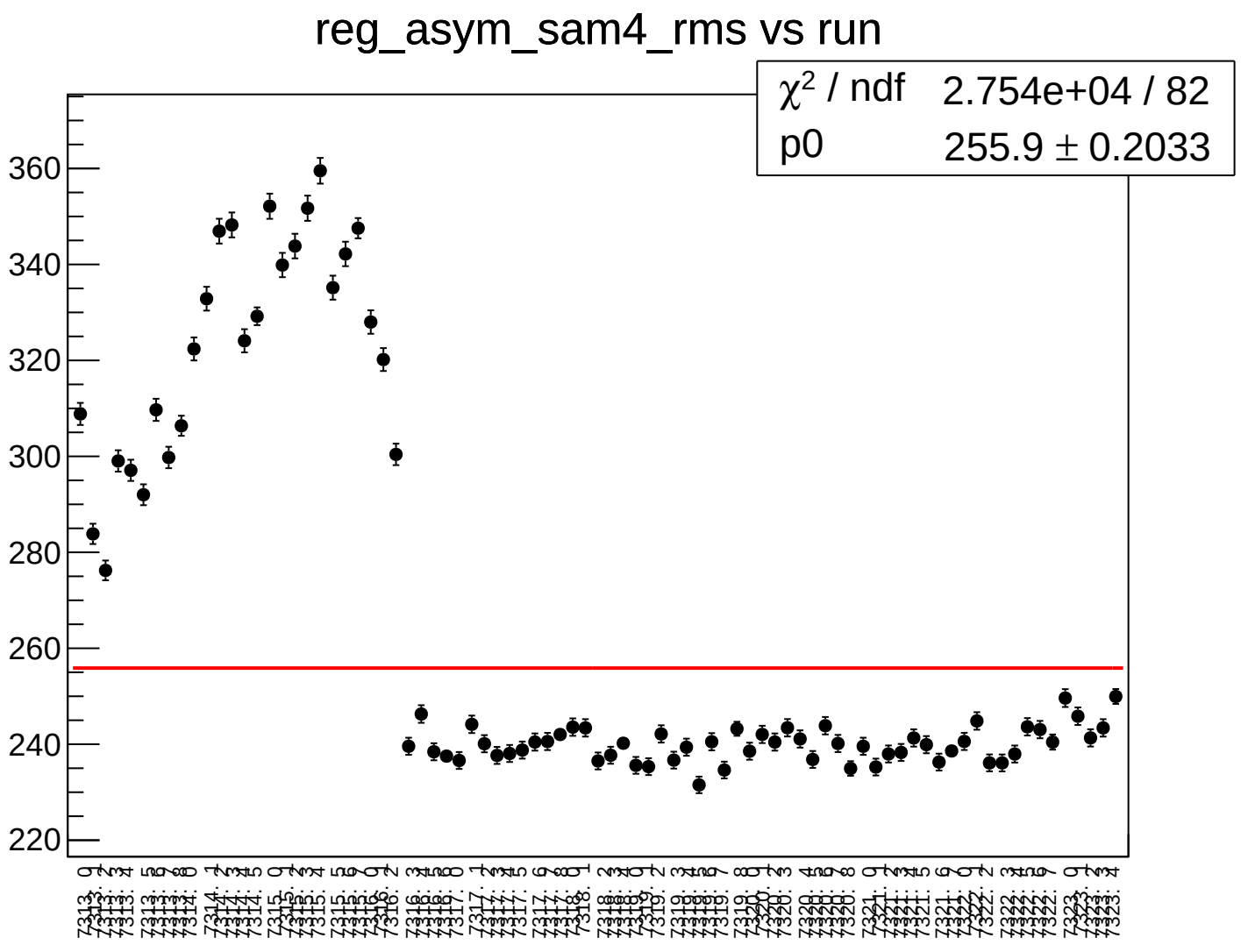

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.18 / 82
p0 2.574e−15 ± 1.194e−14
pull
Entries 83
Mean 111.2
Std Dev 0

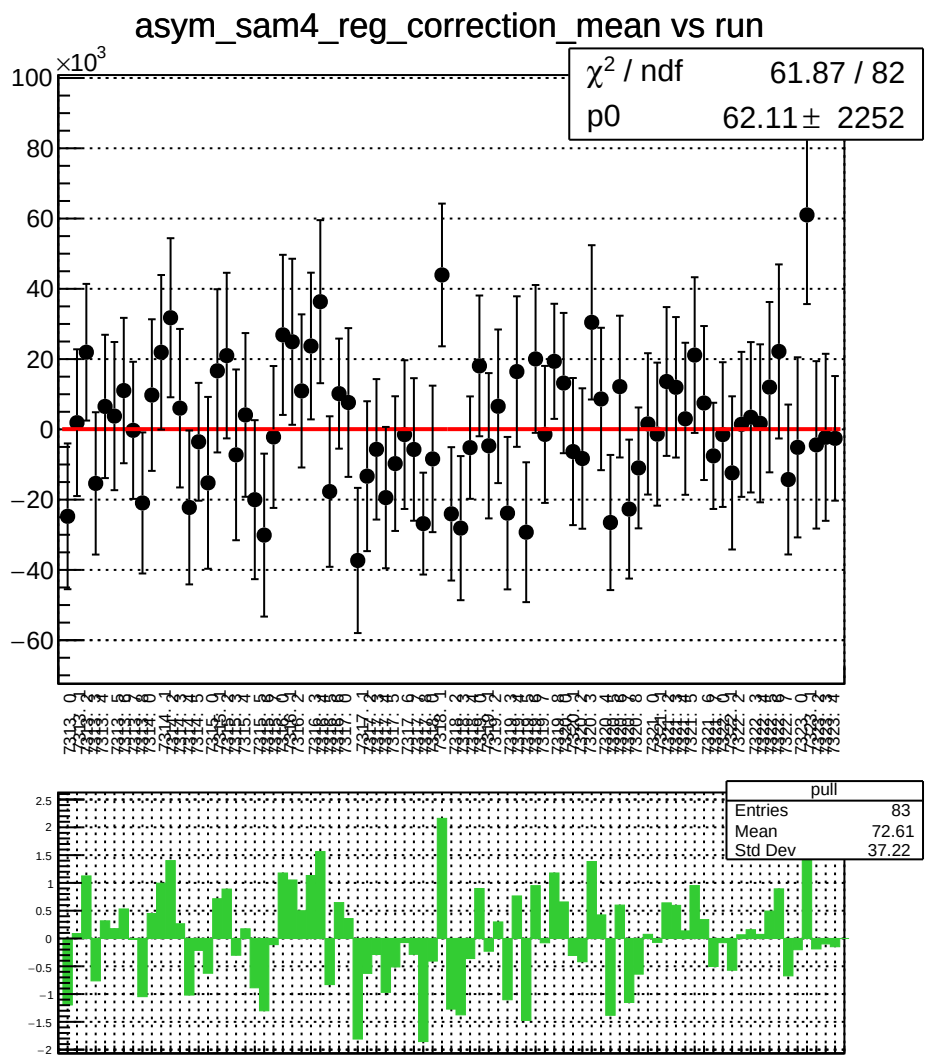

pull1D
Entries 83
Mean 0.05329
Std Dev 1.012

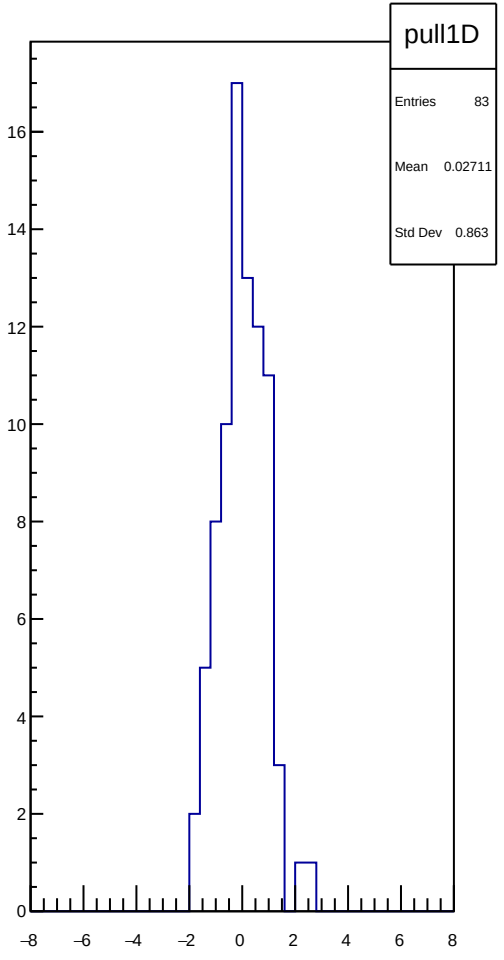

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.27e+05 / 82
p0 8.794e−12 ± 8.445e−15
90
80
70
60
50
40
30
20
10

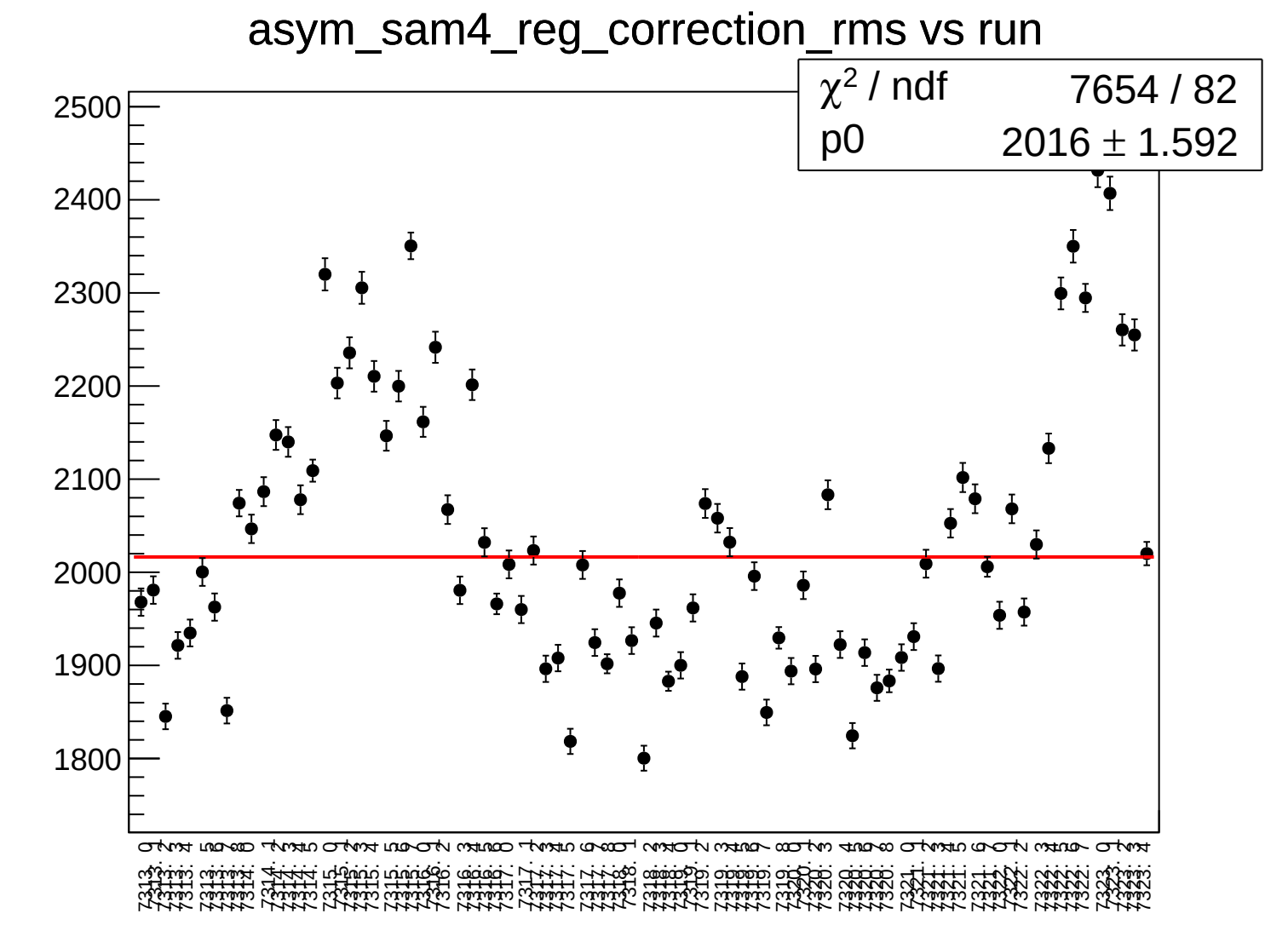

reg_asym_sam4_mean vs run
χ² / ndf 83.18 / 82
p0 669 ± 287.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −10.86
Std Dev 0
3
2
1
0
−1
−2
−3

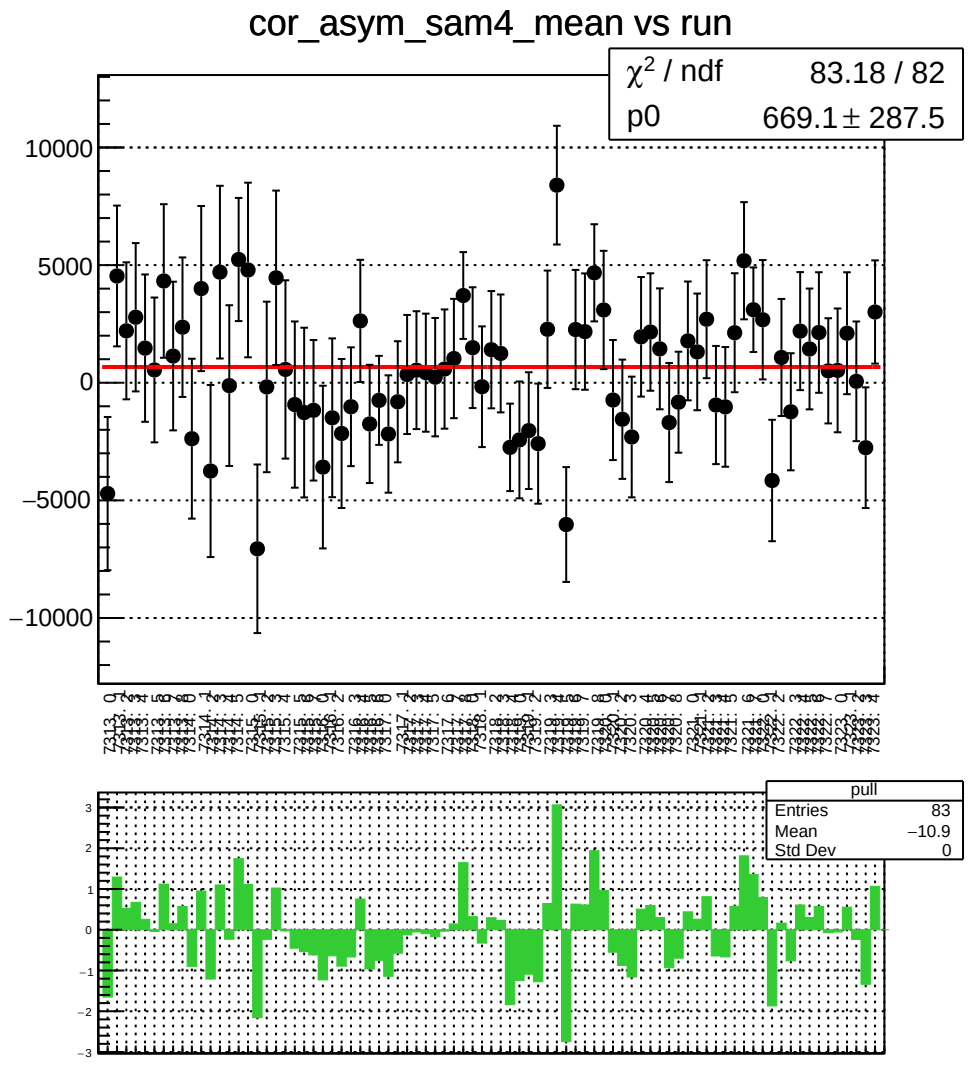

pull1D
Entries 83
Mean −0.01592
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

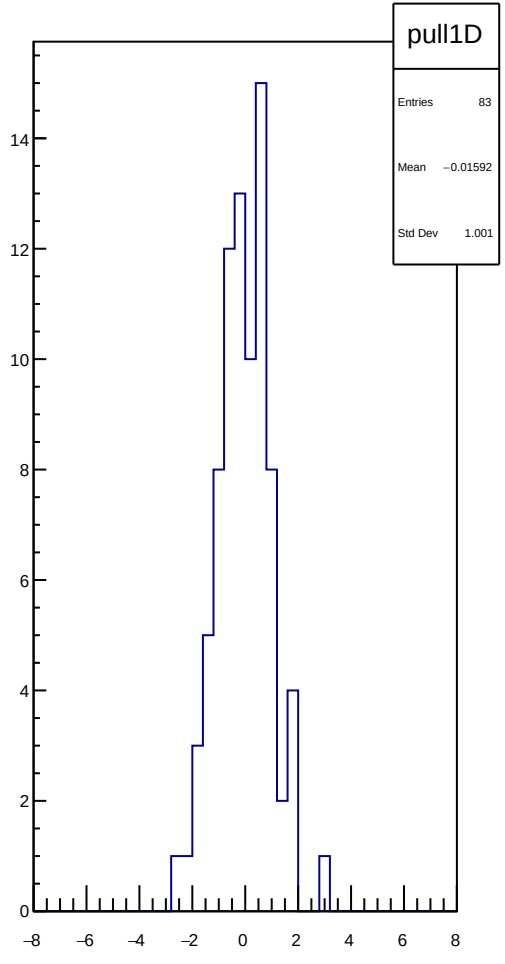

reg_asym_sam4_rms vs run
χ² / ndf 2.754e+04 / 82
p0 255.9 ± 0.2033
360
340
320
300
280
260
240
220

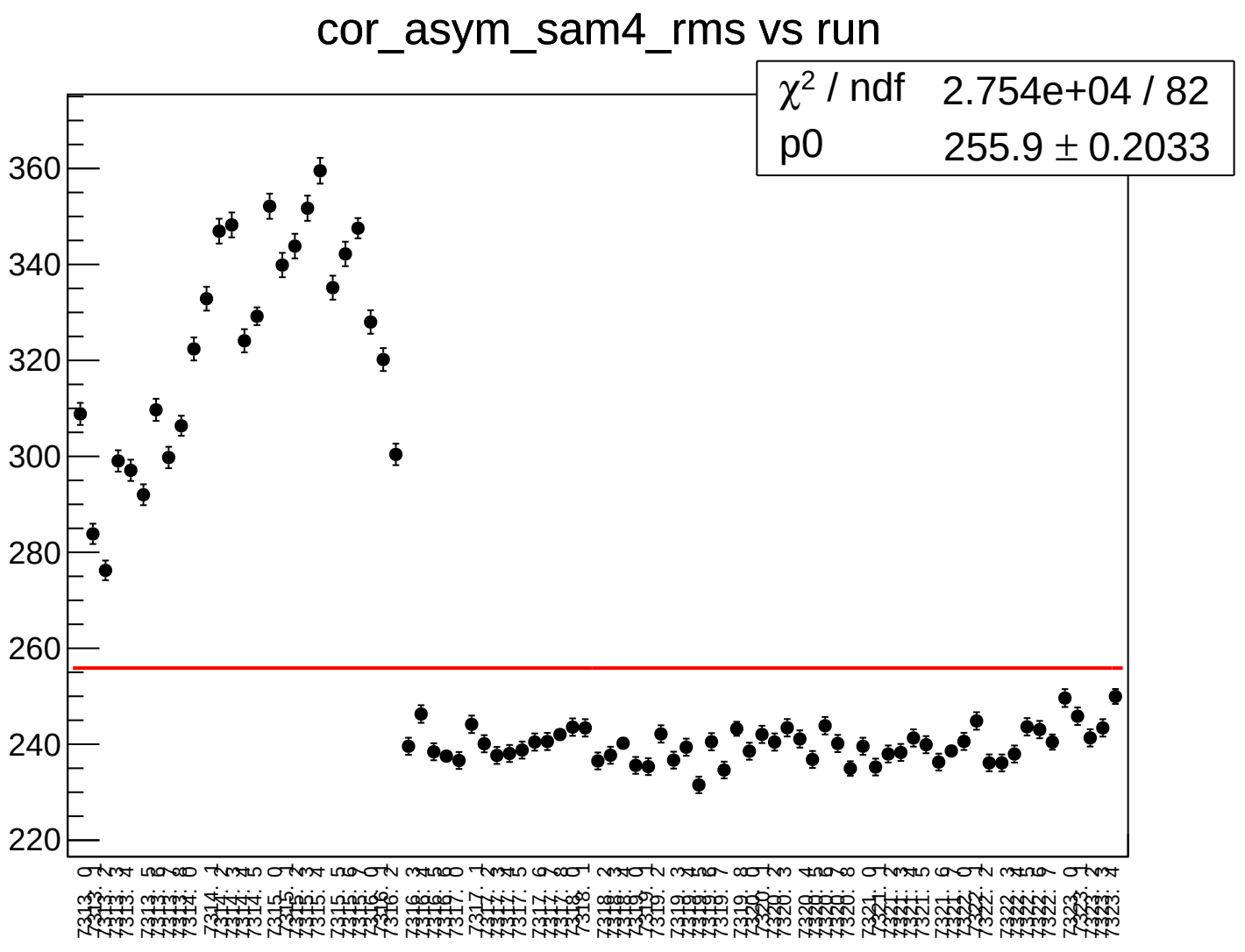

asym_sam4_reg_correction_mean vs run
χ² / ndf 61.87 / 82
p0 62.11 ± 2252
pull
Entries 83
Mean 72.61
Std Dev 37.22

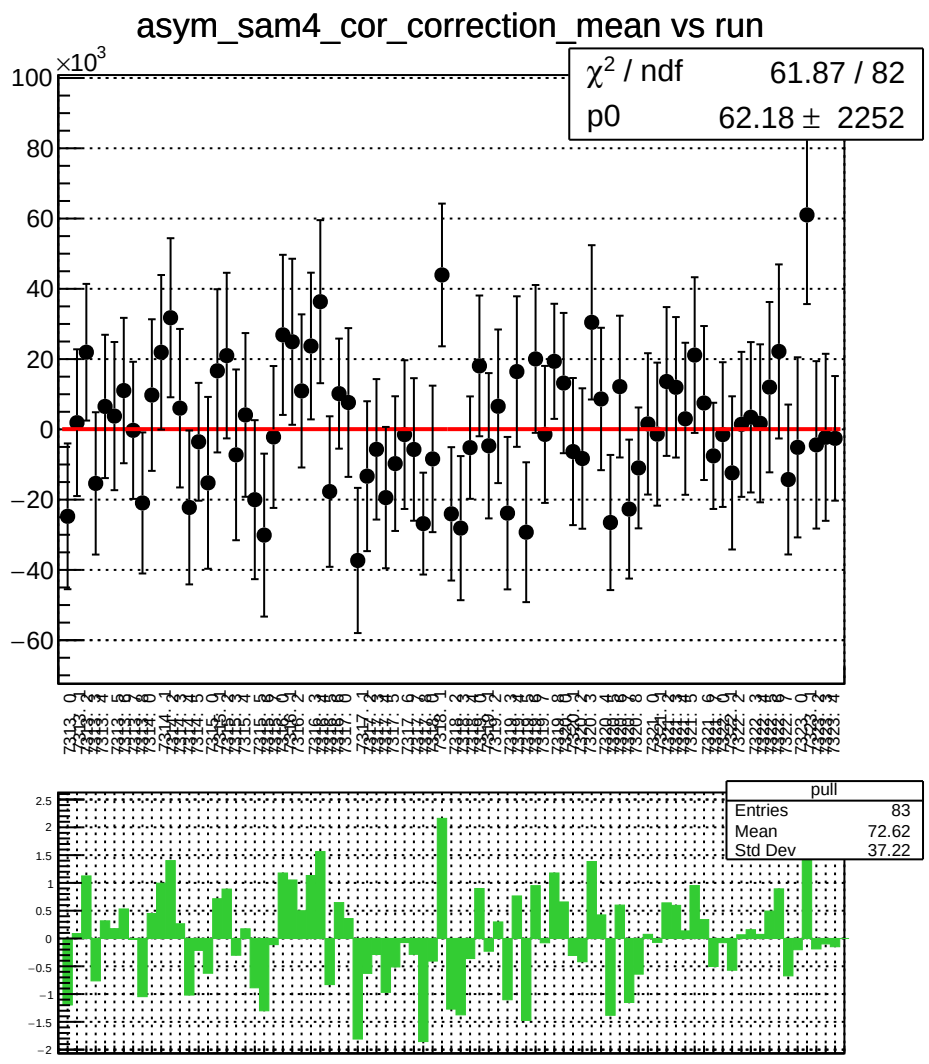

pull1D
Entries 83
Mean 0.02711
Std Dev 0.863

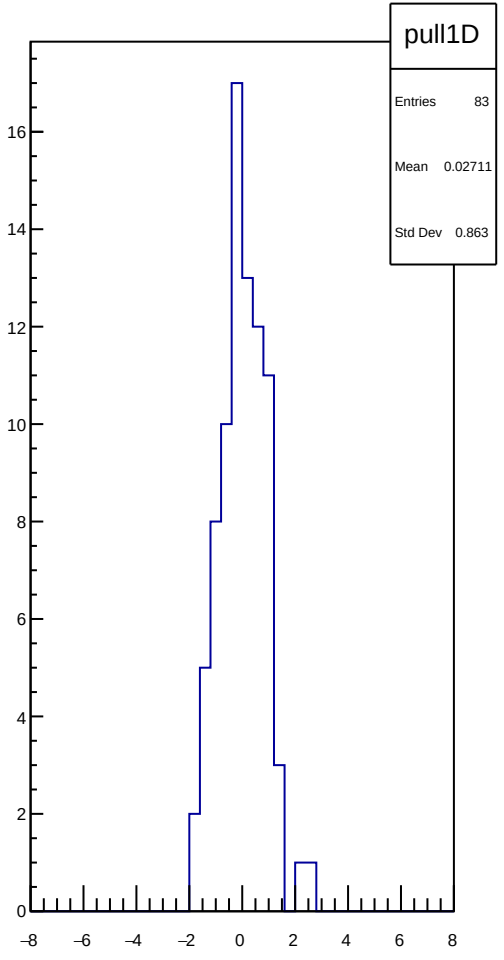

asym_sam4_reg_correction_rms vs run
χ² / ndf 7654 / 82
p0 2016 ± 1.592
2500
2400
2300
2200
2100
2000
1900
1800

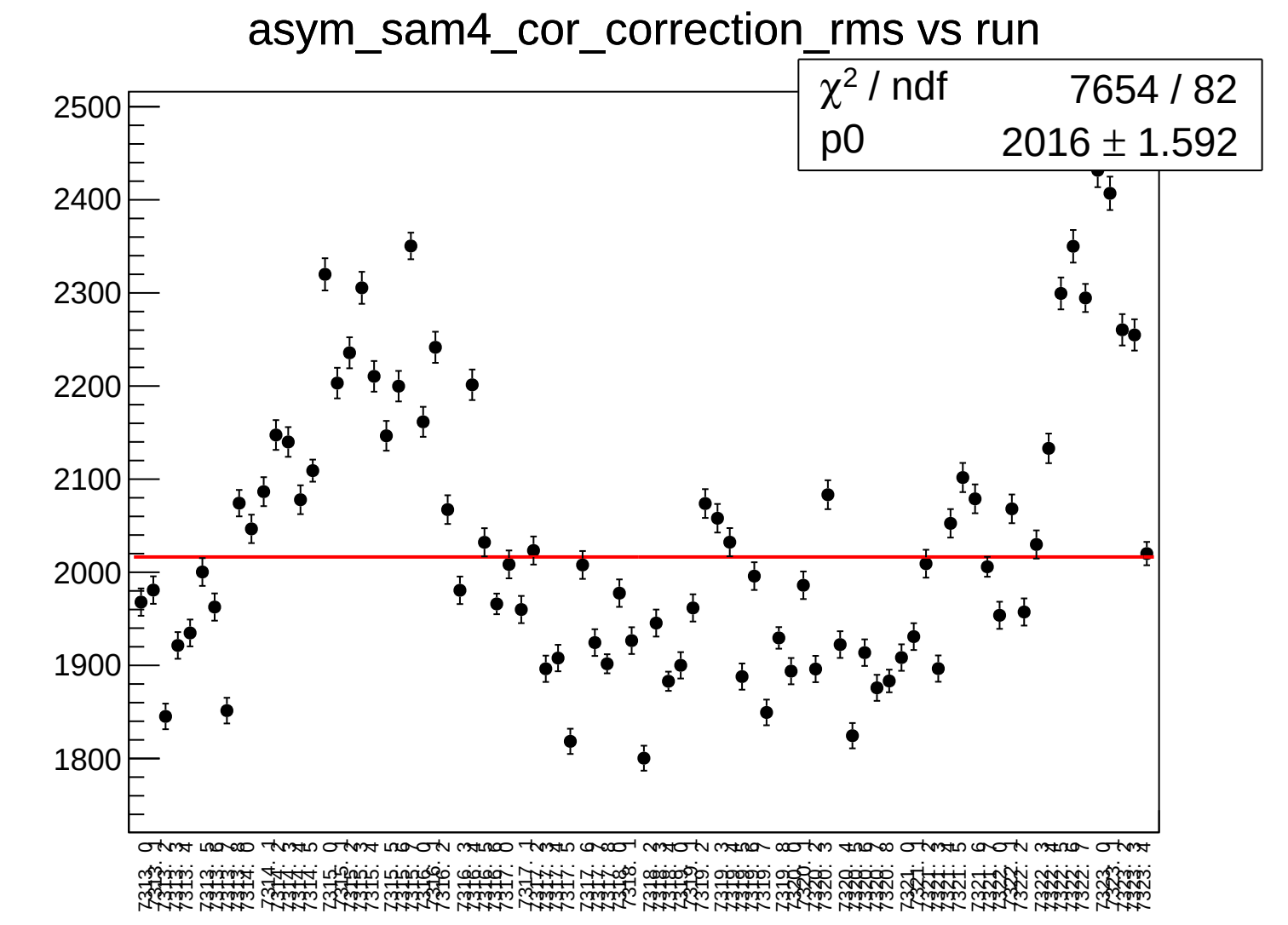

cor_asym_sam4_mean vs run
χ² / ndf 83.18 / 82
p0 669.1 ± 287.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −10.9
Std Dev 0
3
2
1
0
−1
−2
−3

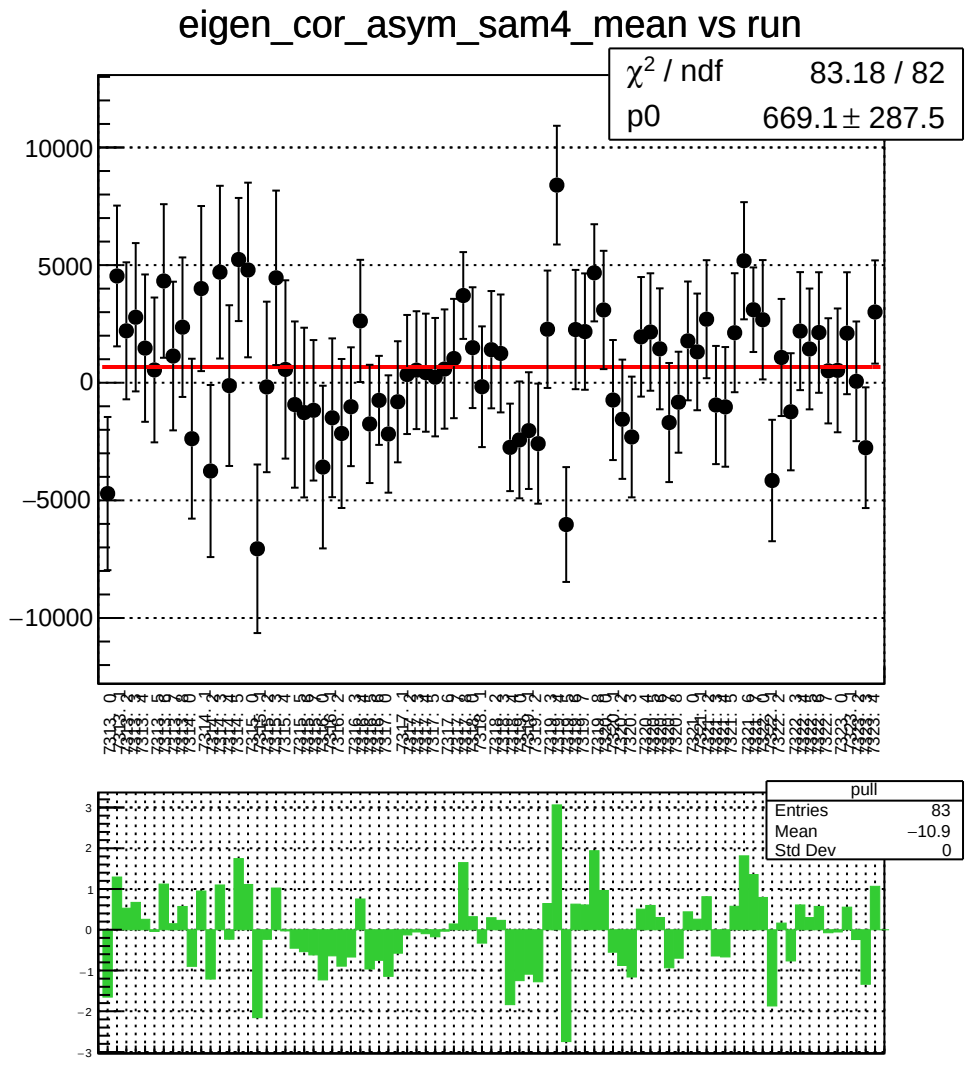

pull1D
Entries 83
Mean −0.01592
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

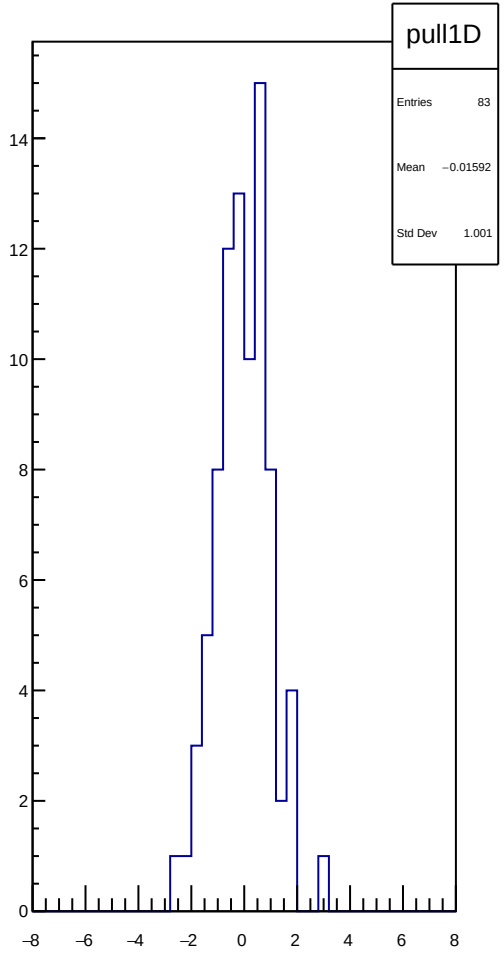

cor_asym_sam4_rms vs run
χ² / ndf 2.754e+04 / 82
p0 255.9 ± 0.2033
360
340
320
300
280
260
240
220

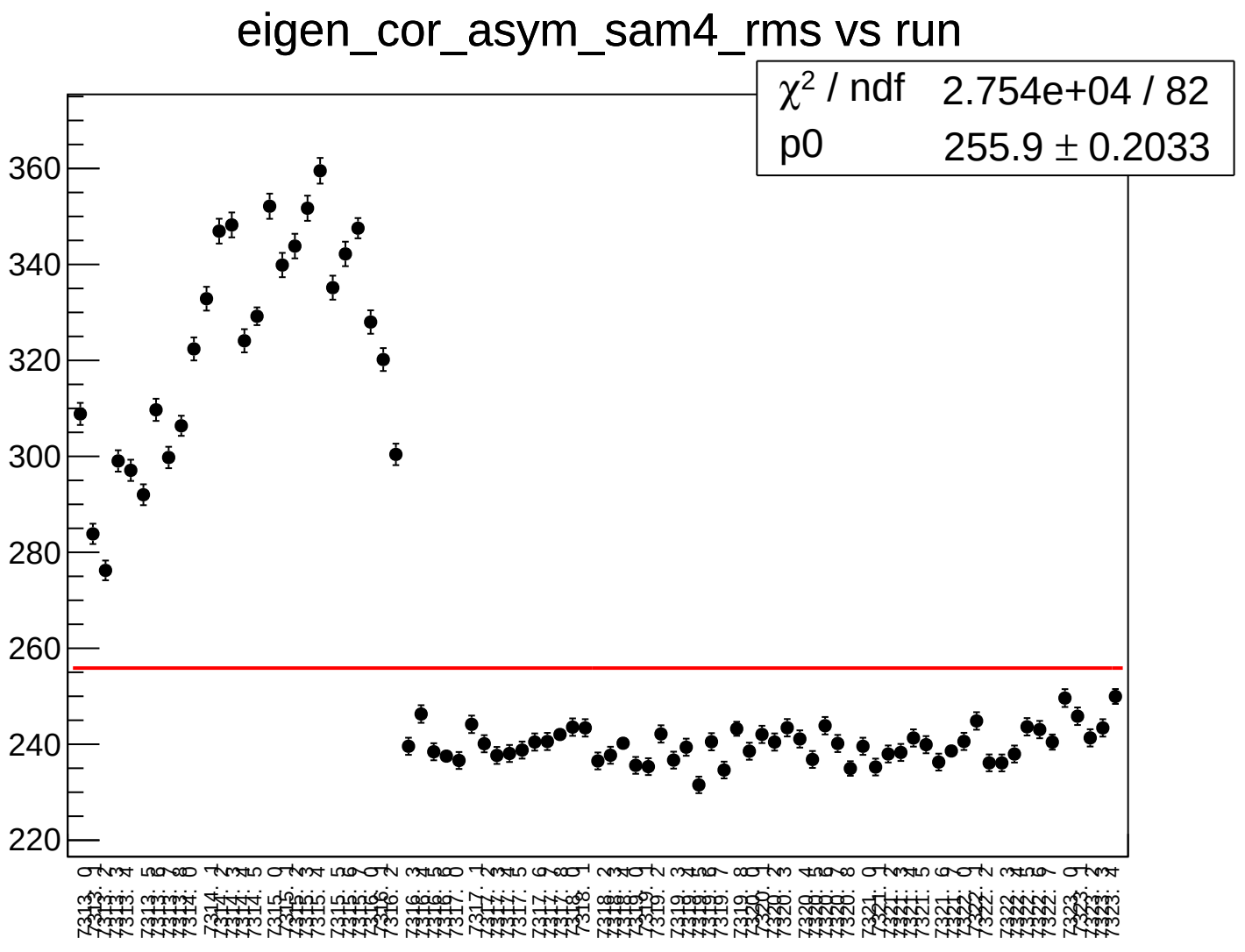

asym_sam4_cor_correction_mean vs run
χ² / ndf 61.87 / 82
p0 62.18 ± 2252
pull
Entries 83
Mean 72.62
Std Dev 37.22

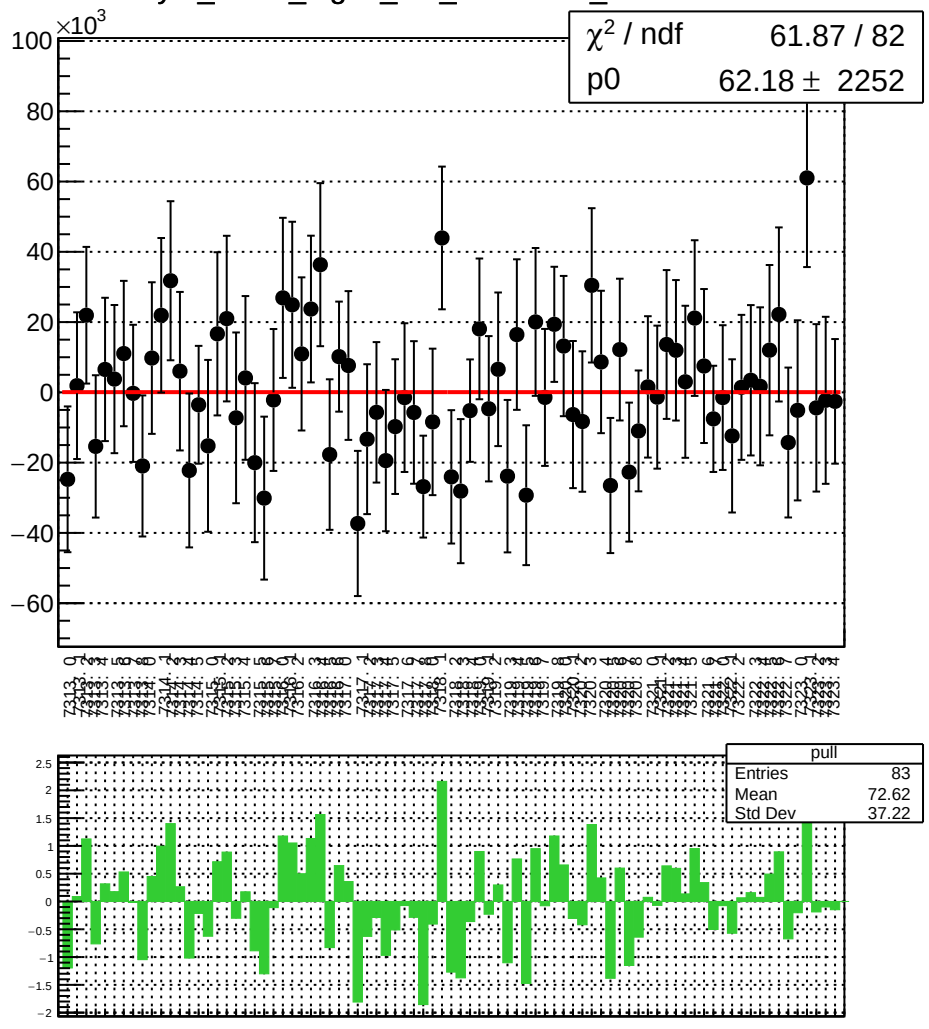

pull1D
Entries 83
Mean 0.02711
Std Dev 0.863

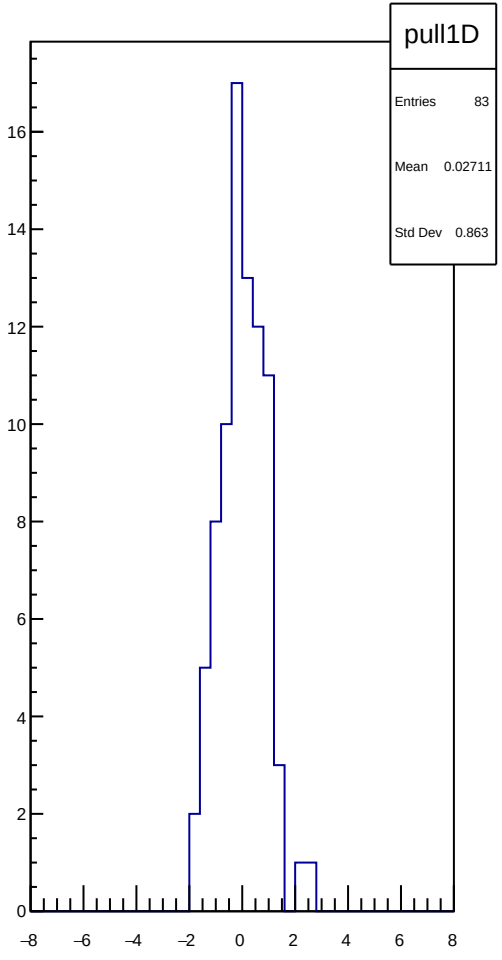

asym_sam4_cor_correction_rms vs run
χ² / ndf 7654 / 82
p0 2016 ± 1.592
2500
2400
2300
2200
2100
2000
1900
1800

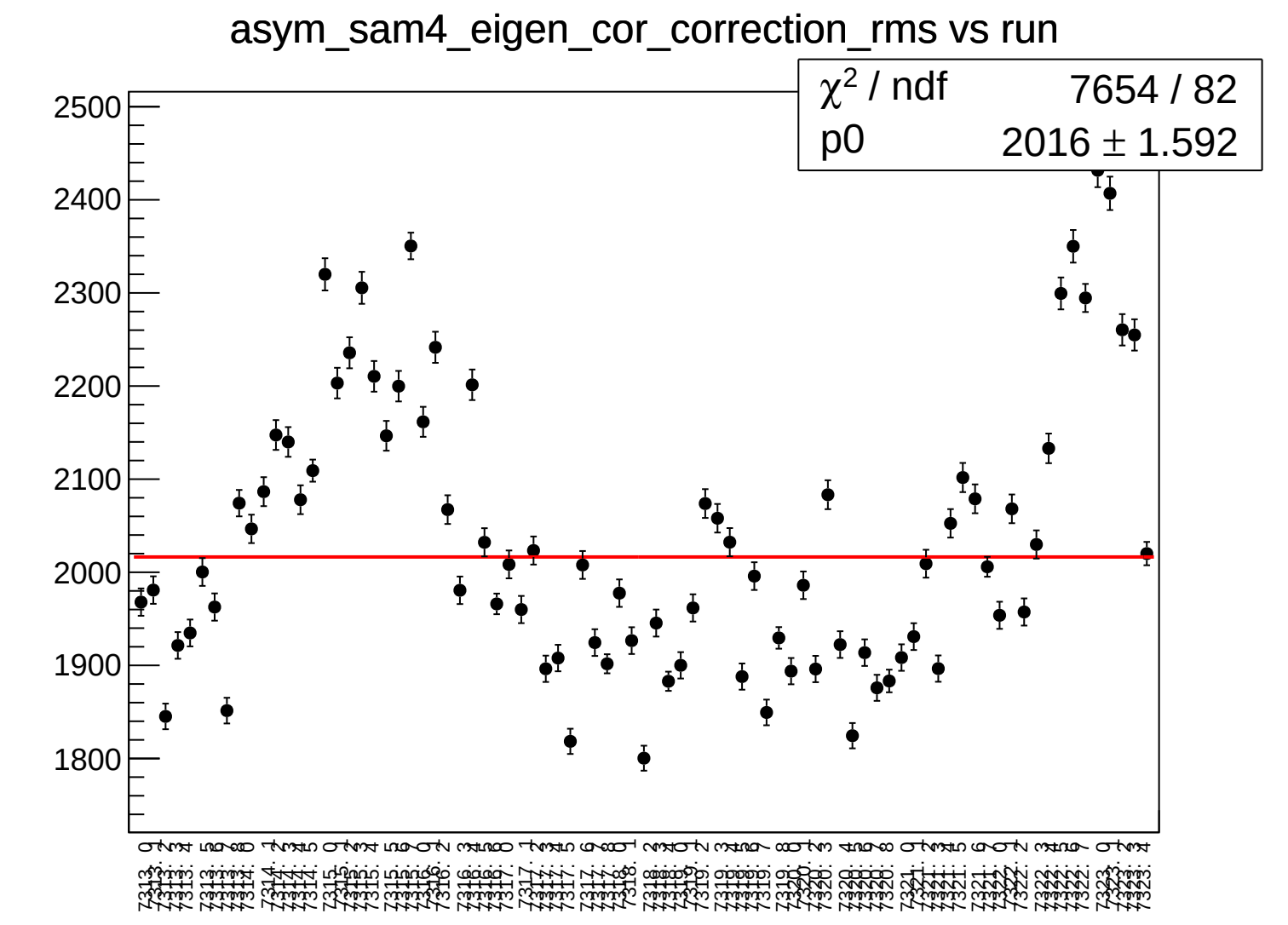

eigen_cor_asym_sam4_mean vs run
χ² / ndf 83.18 / 82
p0 669.1 ± 287.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −10.9
Std Dev 0
3
2
1
0
−1
−2
−3

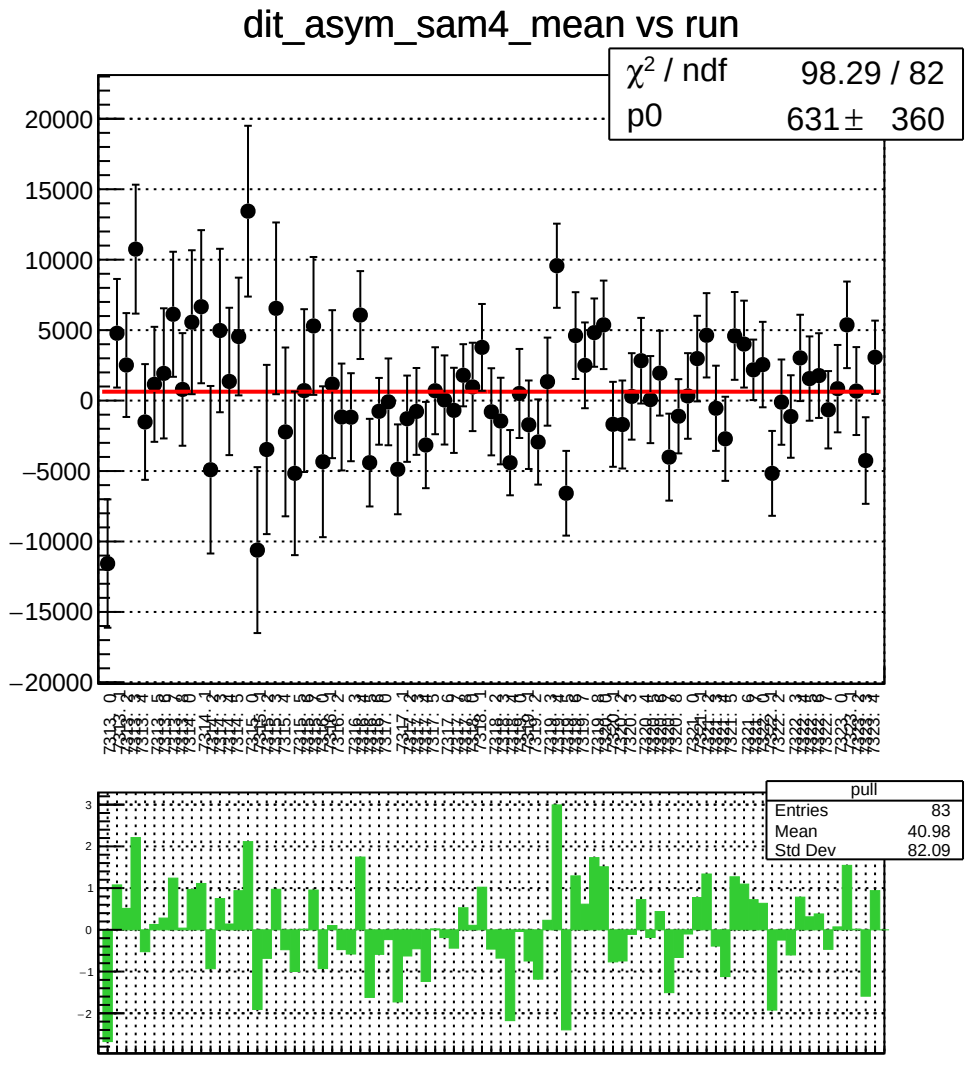

pull1D
Entries 83
Mean −0.01592
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

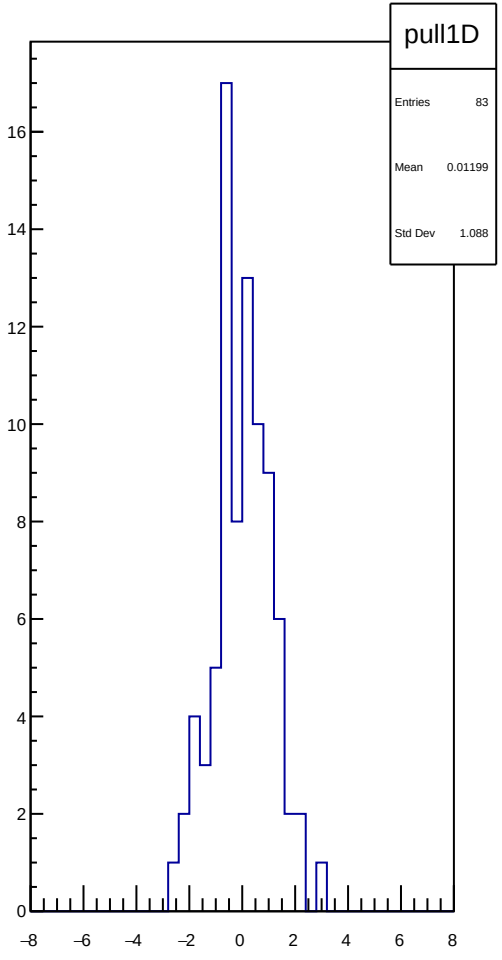

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.754e+04 / 82
p0 255.9 ± 0.2033
360
340
320
300
280
260
240
220

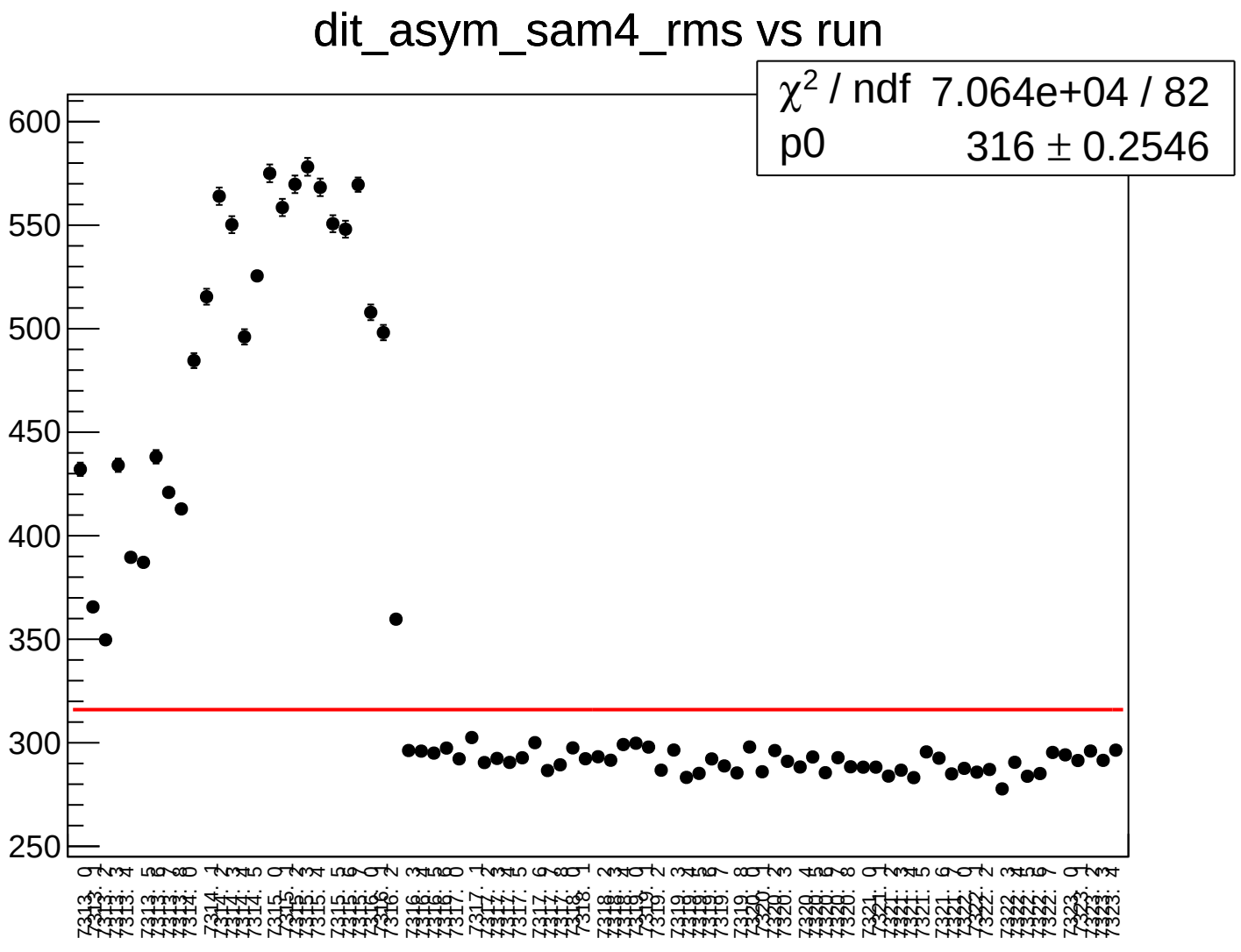

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 61.87 / 82
p0 62.18 ± 2252
pull
Entries 83
Mean 72.62
Std Dev 37.22

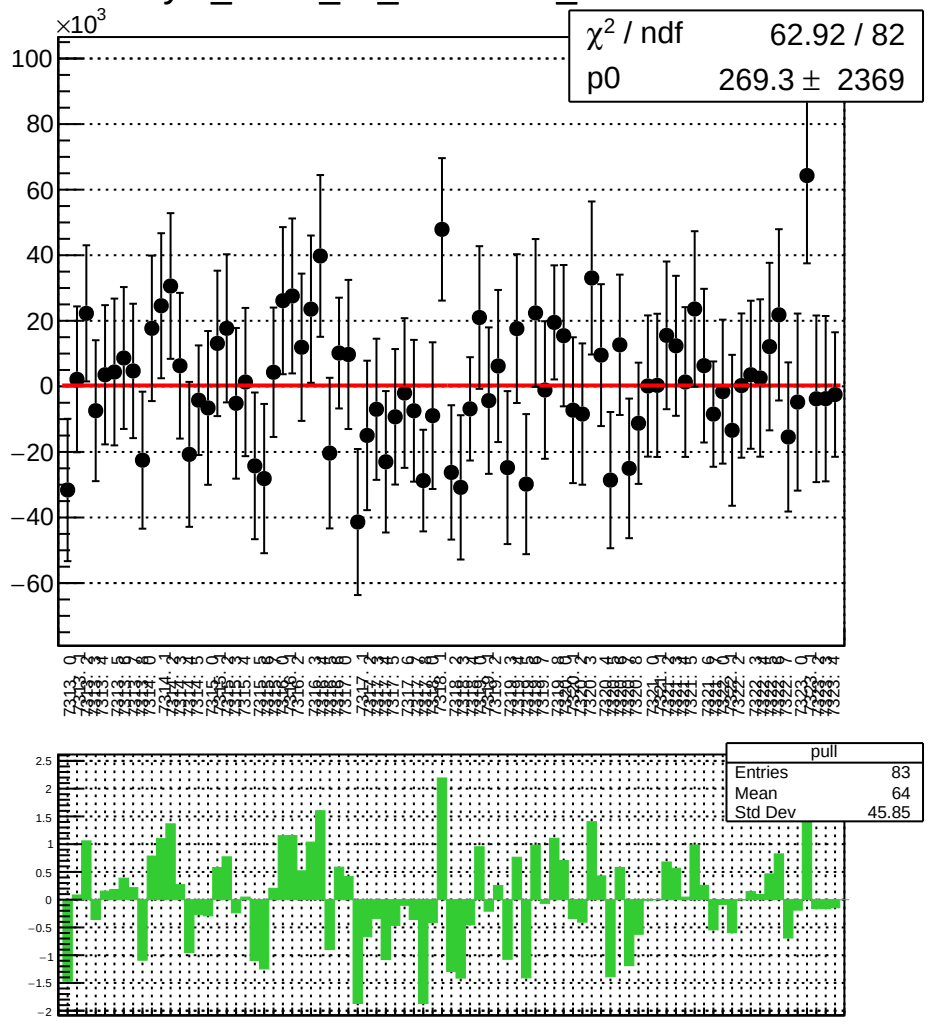

pull1D
Entries 83
Mean 0.02711
Std Dev 0.863

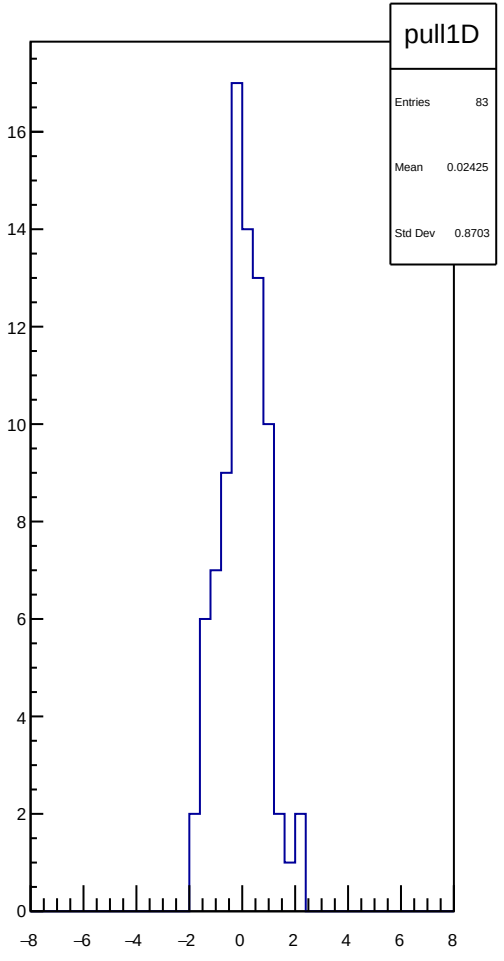

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 7654 / 82
p0 2016 ± 1.592
2500
2400
2300
2200
2100
2000
1900
1800

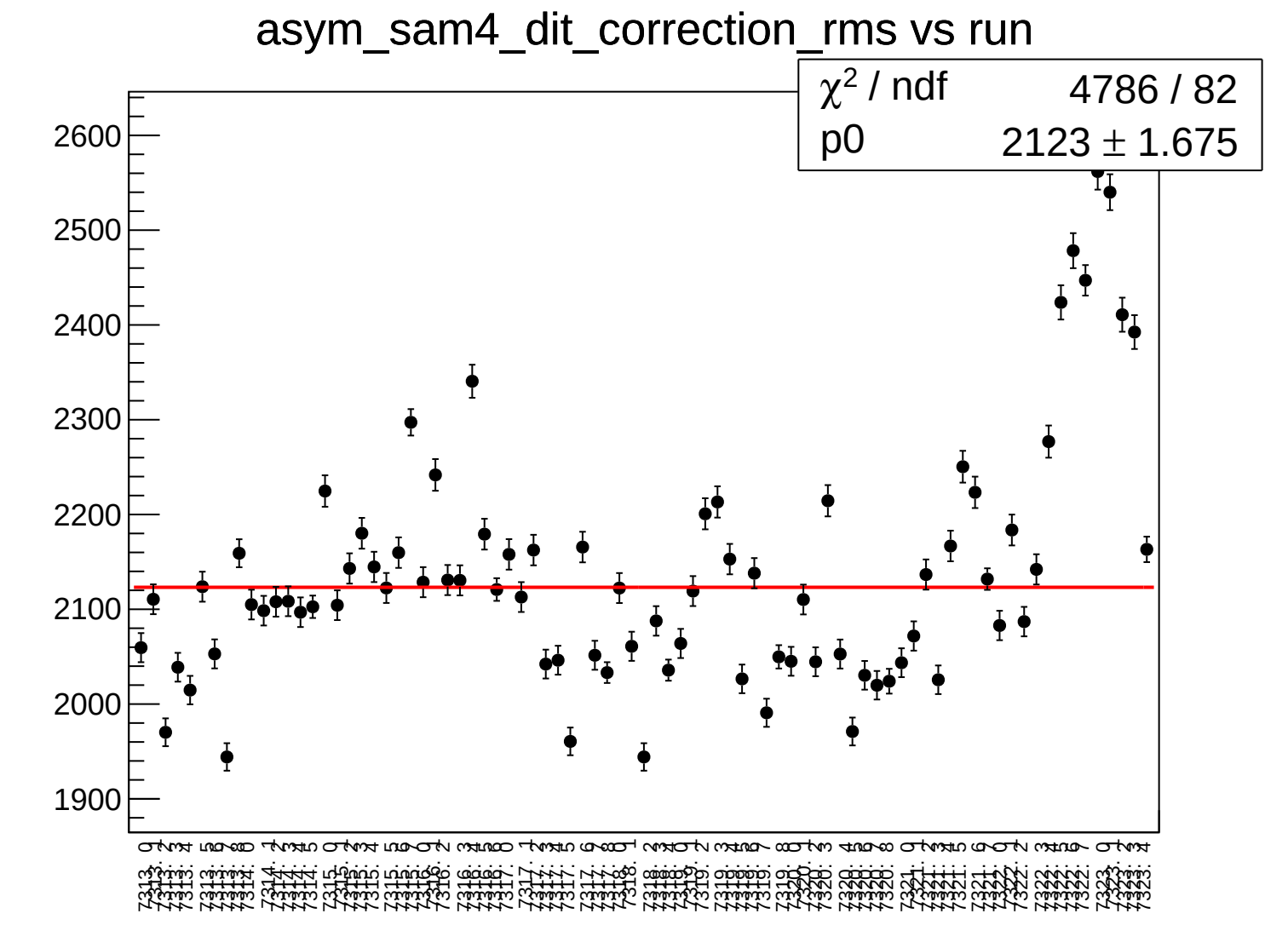

dit_asym_sam4_mean vs run
χ² / ndf 98.29 / 82
p0 631 ± 360
pull
Entries 83
Mean 40.98
Std Dev 82.09

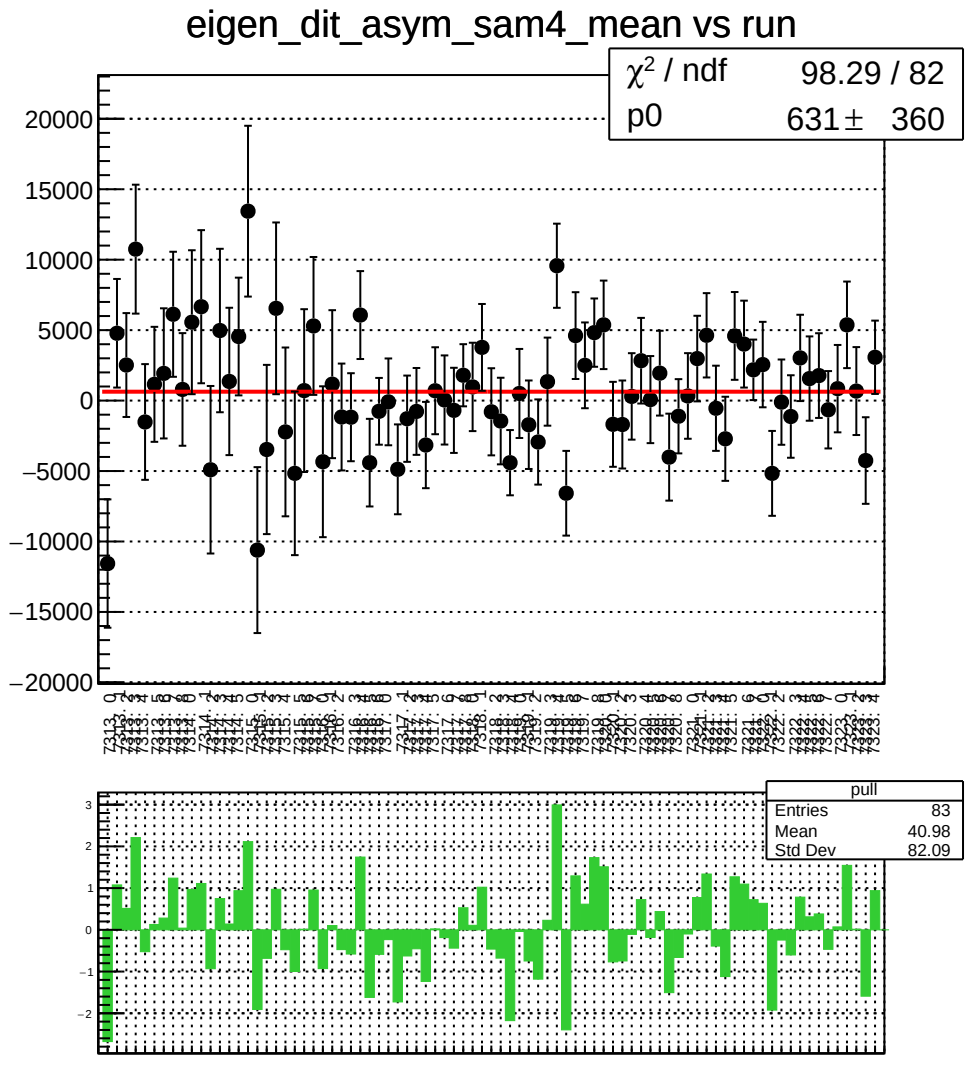

pull1D
Entries 83
Mean 0.01199
Std Dev 1.088

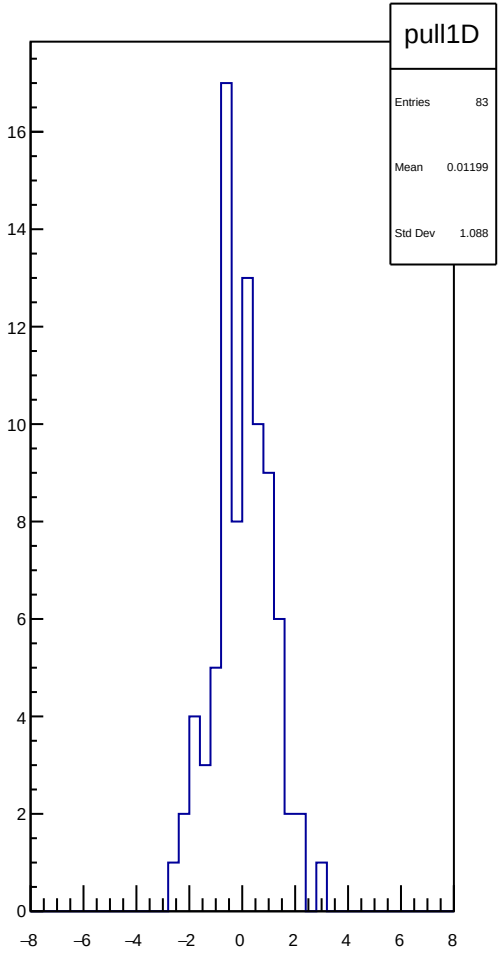

dit_asym_sam4_rms vs run
χ^2 / ndf 7.064e+04 / 82
p0 316 ± 0.2546
600
550
500
450
400
350
300
250

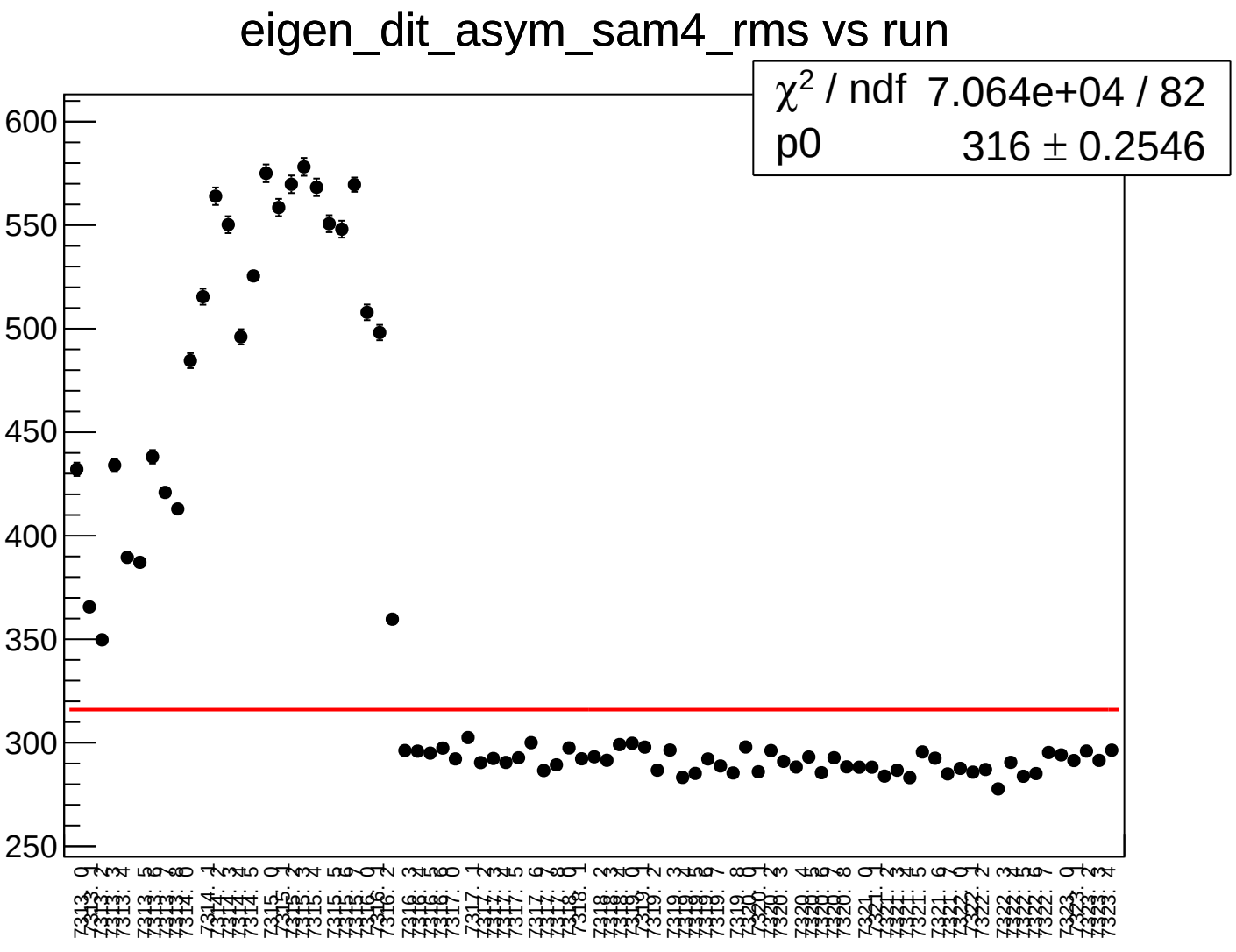

asym_sam4_dit_correction_mean vs run
χ² / ndf 62.92 / 82
p0 269.3 ± 2369
pull
Entries 83
Mean 64
Std Dev 45.85

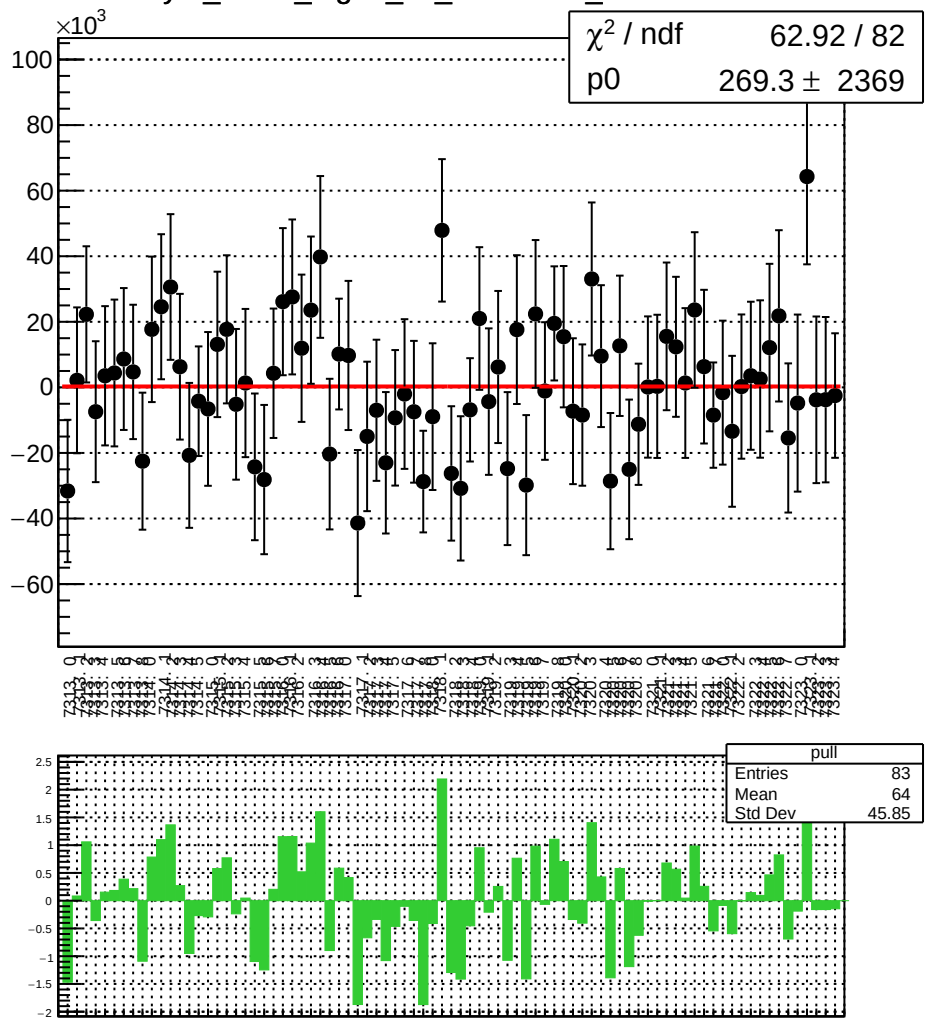

pull1D
Entries 83
Mean 0.02425
Std Dev 0.8703

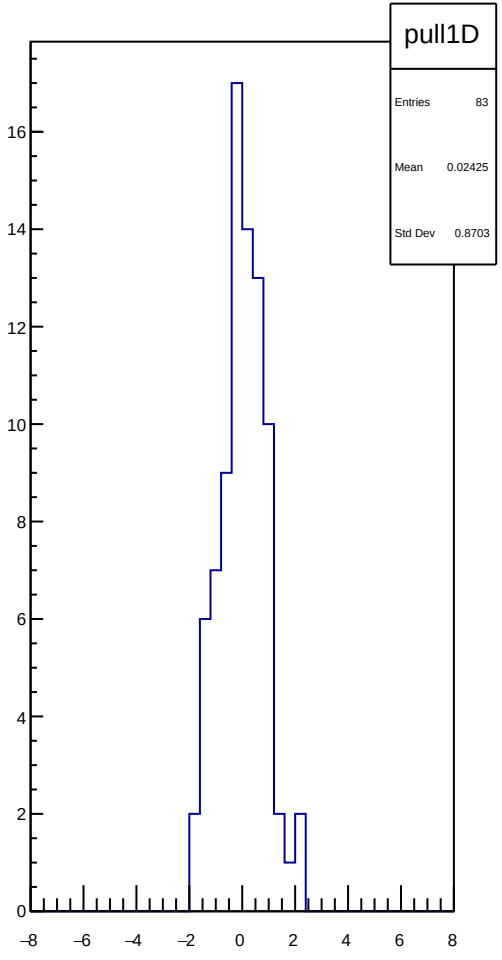

asym_sam4_dit_correction_rms vs run
χ² / ndf 4786 / 82
p0 2123 ± 1.675
2600
2500
2400
2300
2200
2100
2000
1900

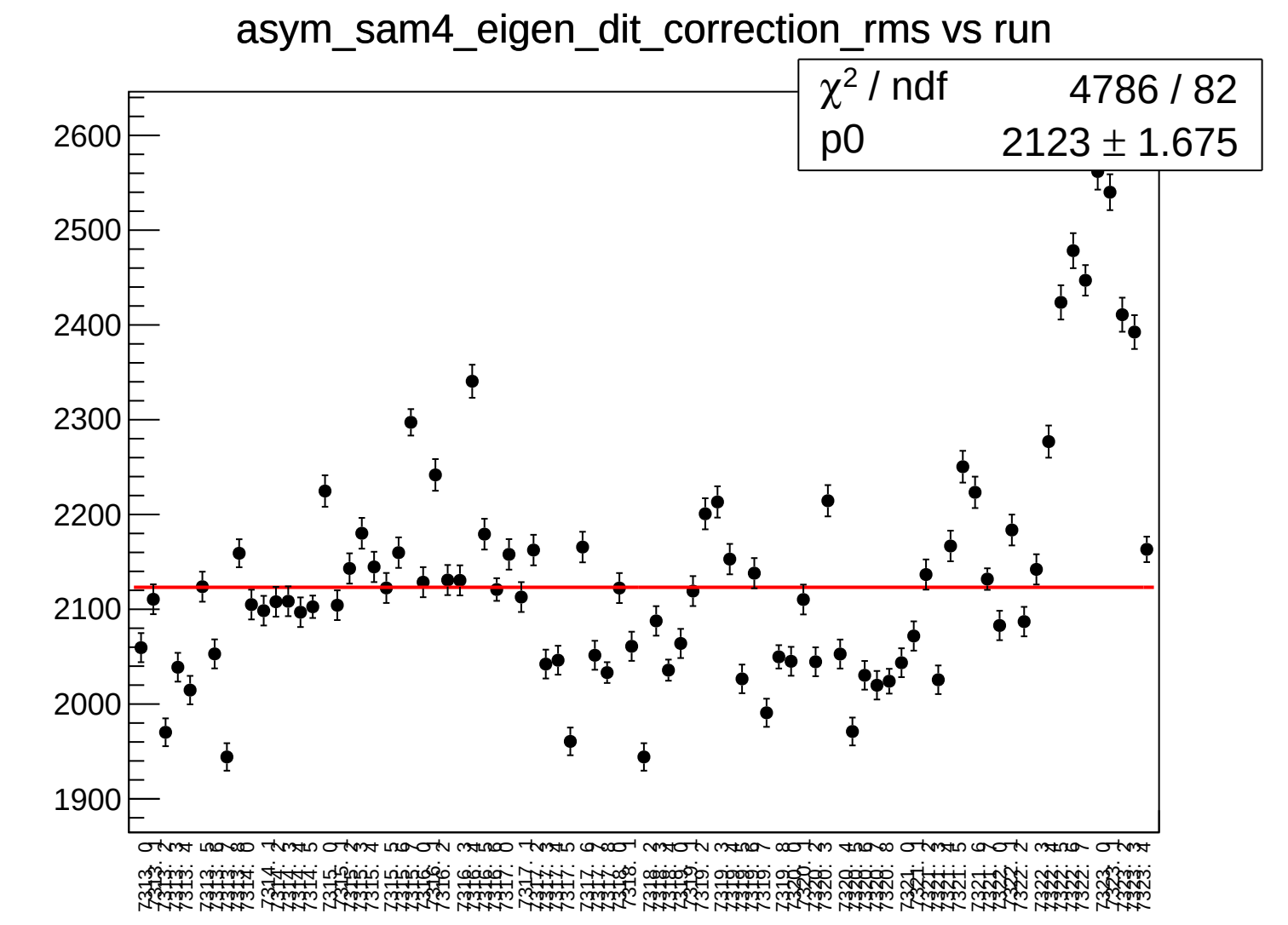

eigen_dit_asym_sam4_mean vs run
χ² / ndf 98.29 / 82
p0 631 ± 360
pull
Entries 83
Mean 40.98
Std Dev 82.09

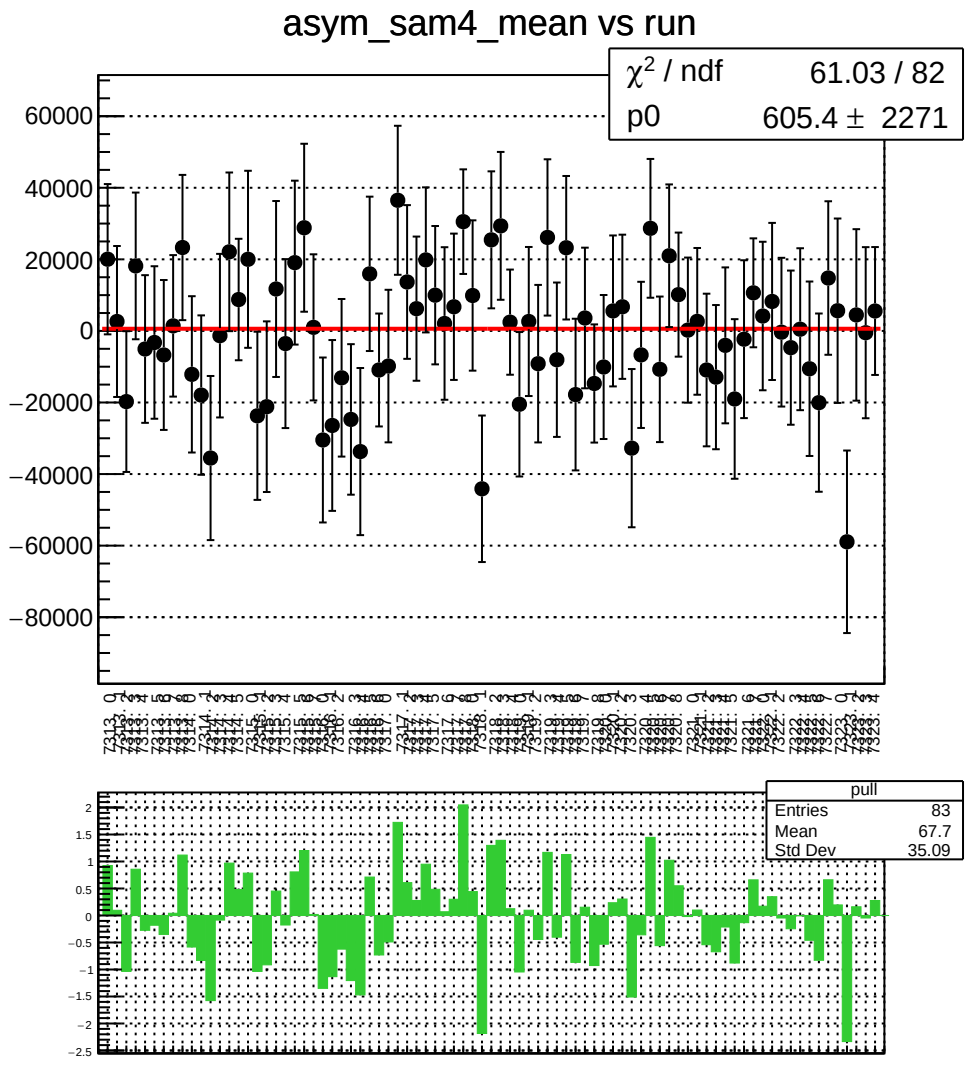

pull1D
Entries 83
Mean 0.01199
Std Dev 1.088

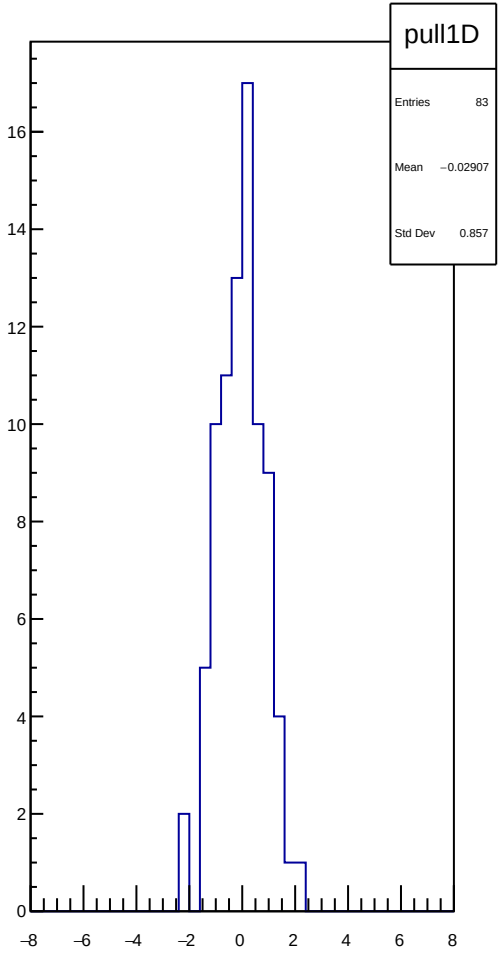

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 7.064e+04 / 82
p0 316 ± 0.2546
600
550
500
450
400
350
300
250

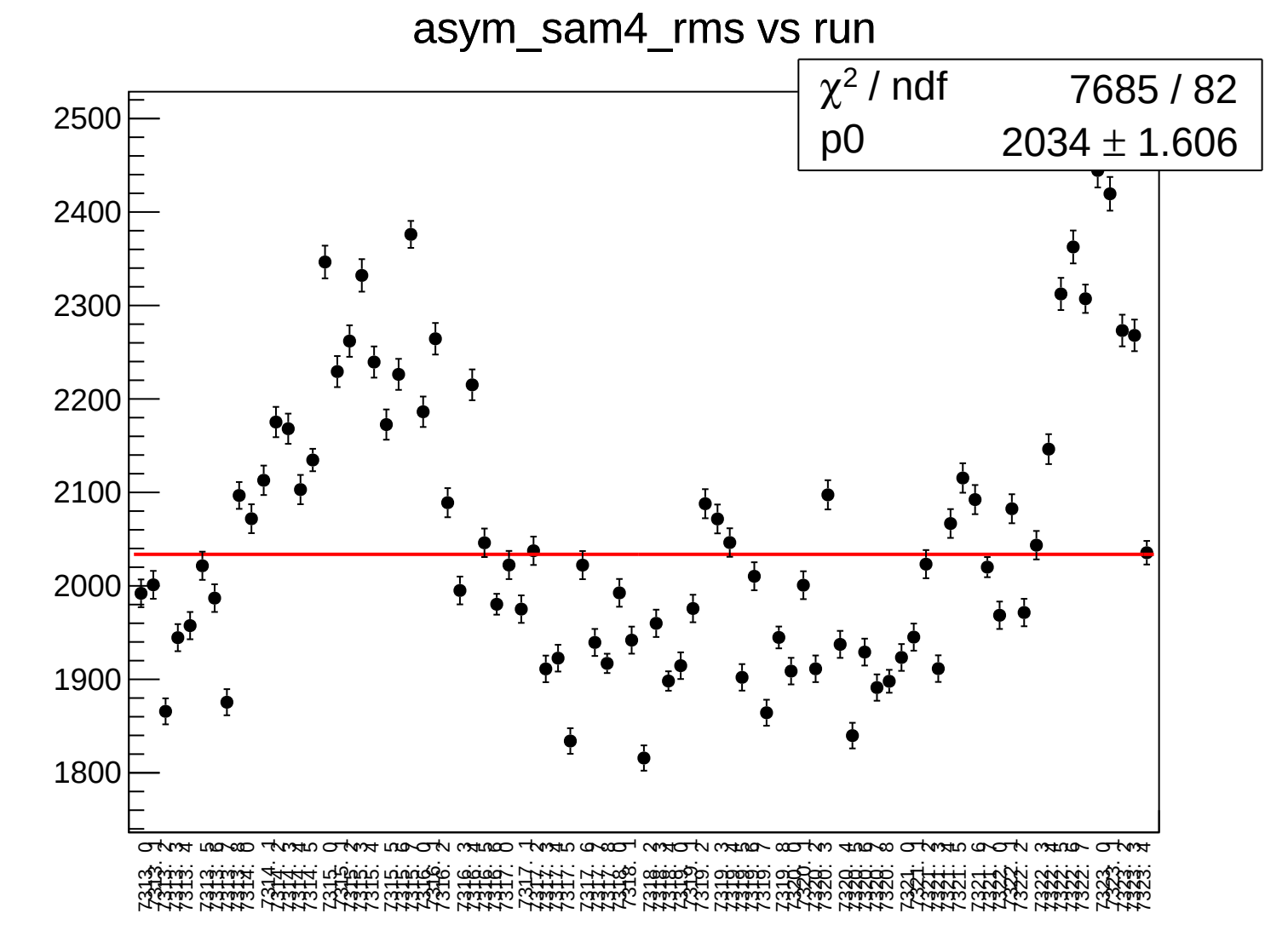

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.92 / 82
p0 269.3 ± 2369
pull
Entries 83
Mean 64
Std Dev 45.85

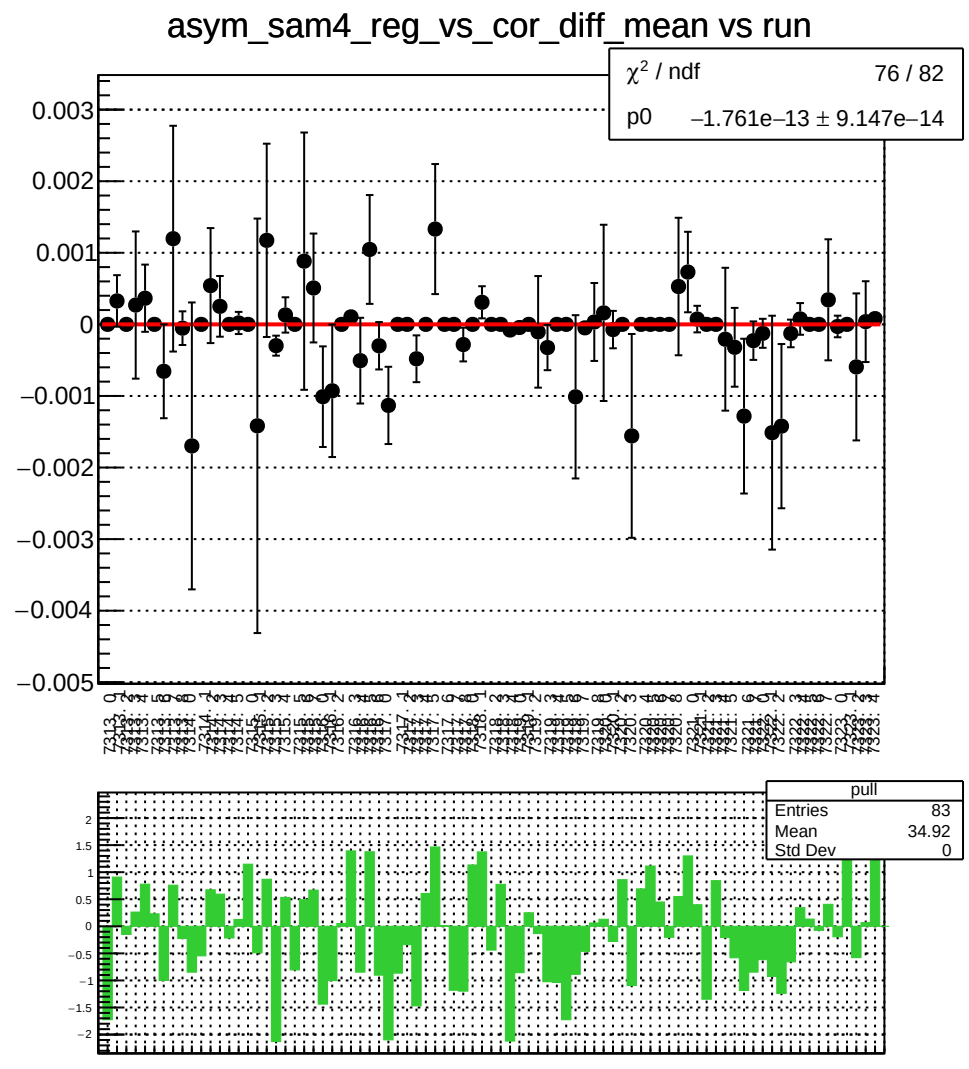

pull1D
Entries 83
Mean 0.02425
Std Dev 0.8703

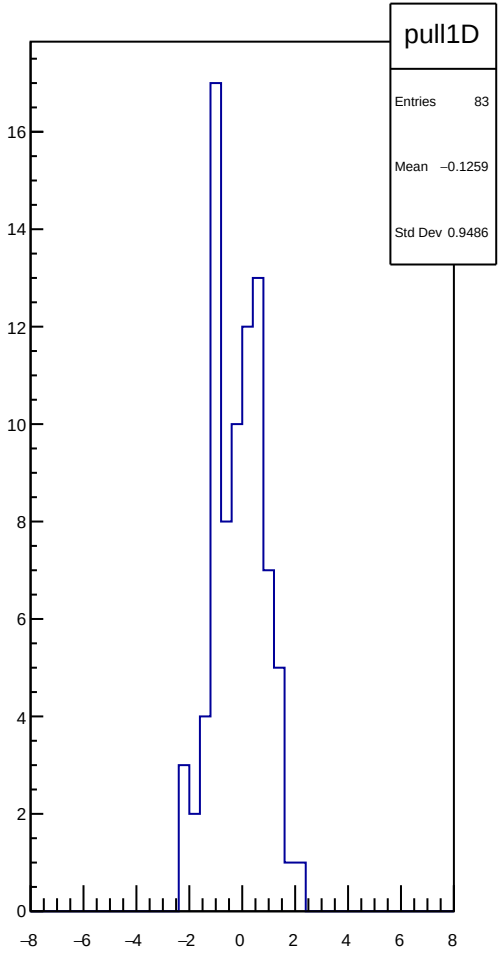

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4786 / 82
p0 2123 ± 1.675
2600
2500
2400
2300
2200
2100
2000
1900

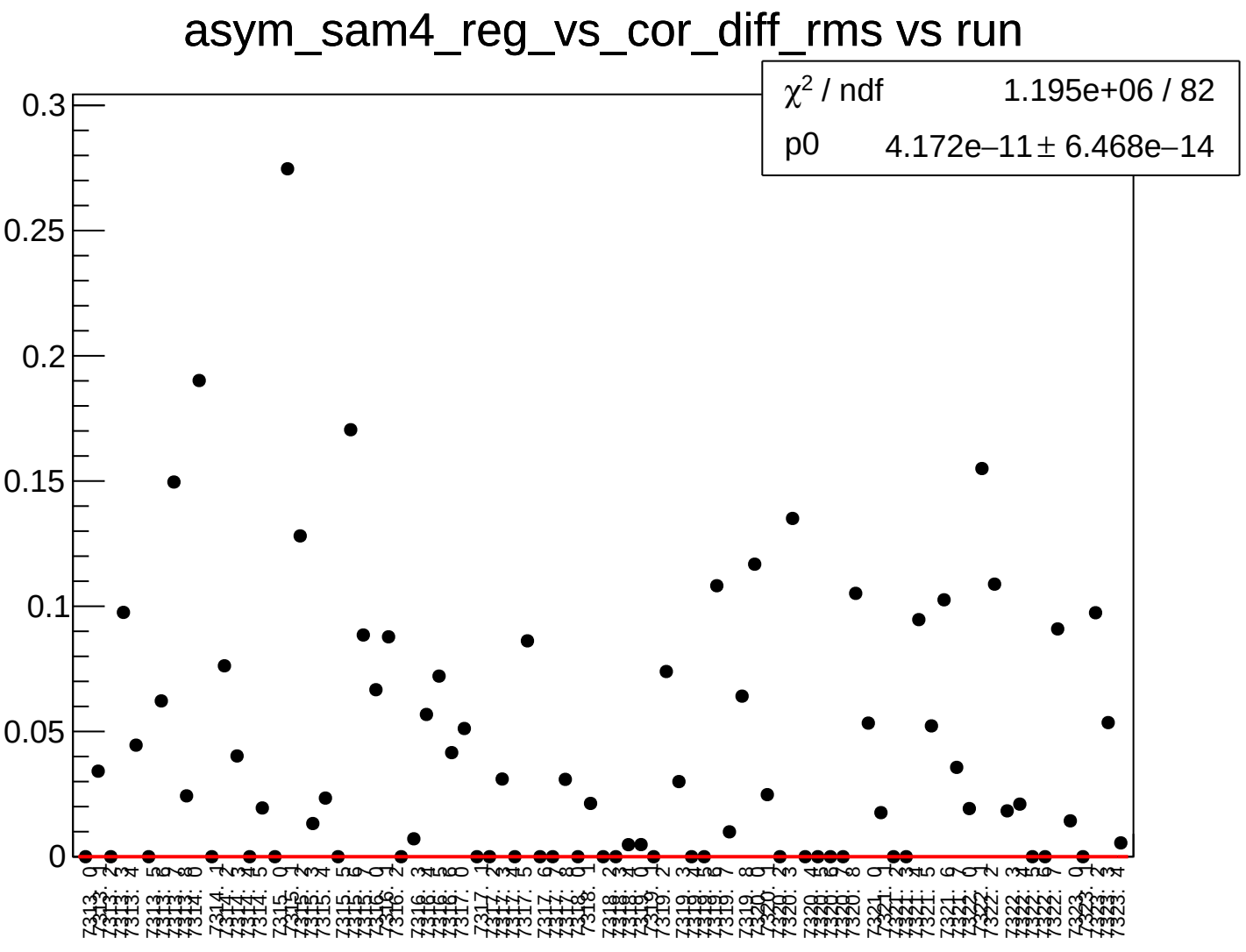

asym_sam4_mean vs run
χ² / ndf 61.03 / 82
p0 605.4 ± 2271
pull
Entries 83
Mean 67.7
Std Dev 35.09

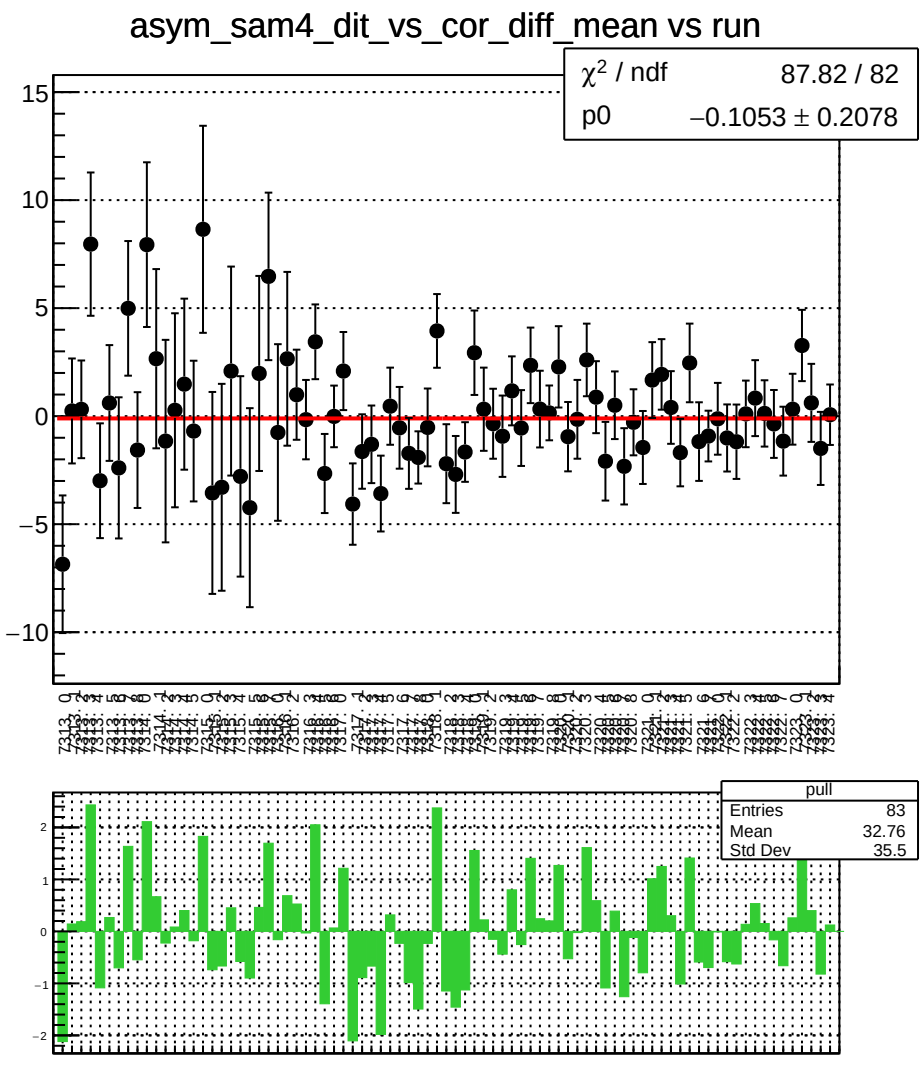

pull1D
Entries 83
Mean −0.02907
Std Dev 0.857

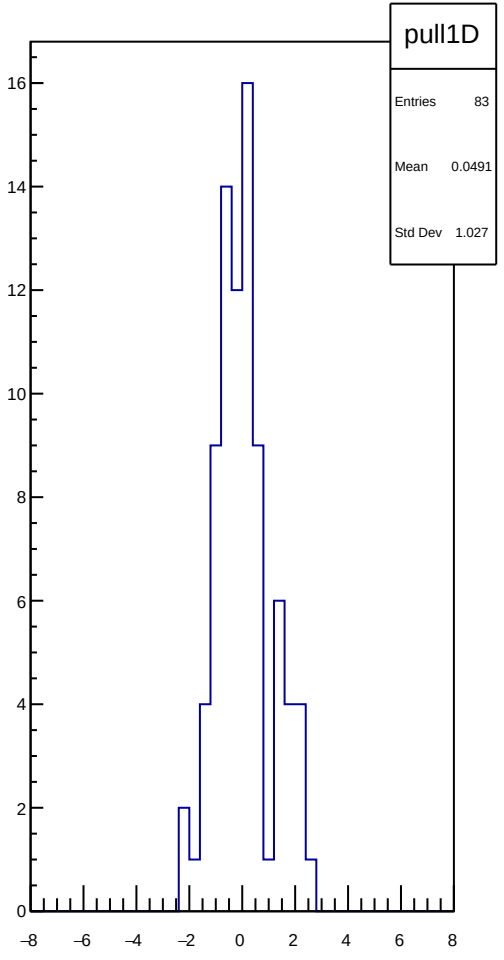

asym_sam4_rms vs run
χ² / ndf 7685 / 82
p0 2034 ± 1.606
2500
2400
2300
2200
2100
2000
1900
1800

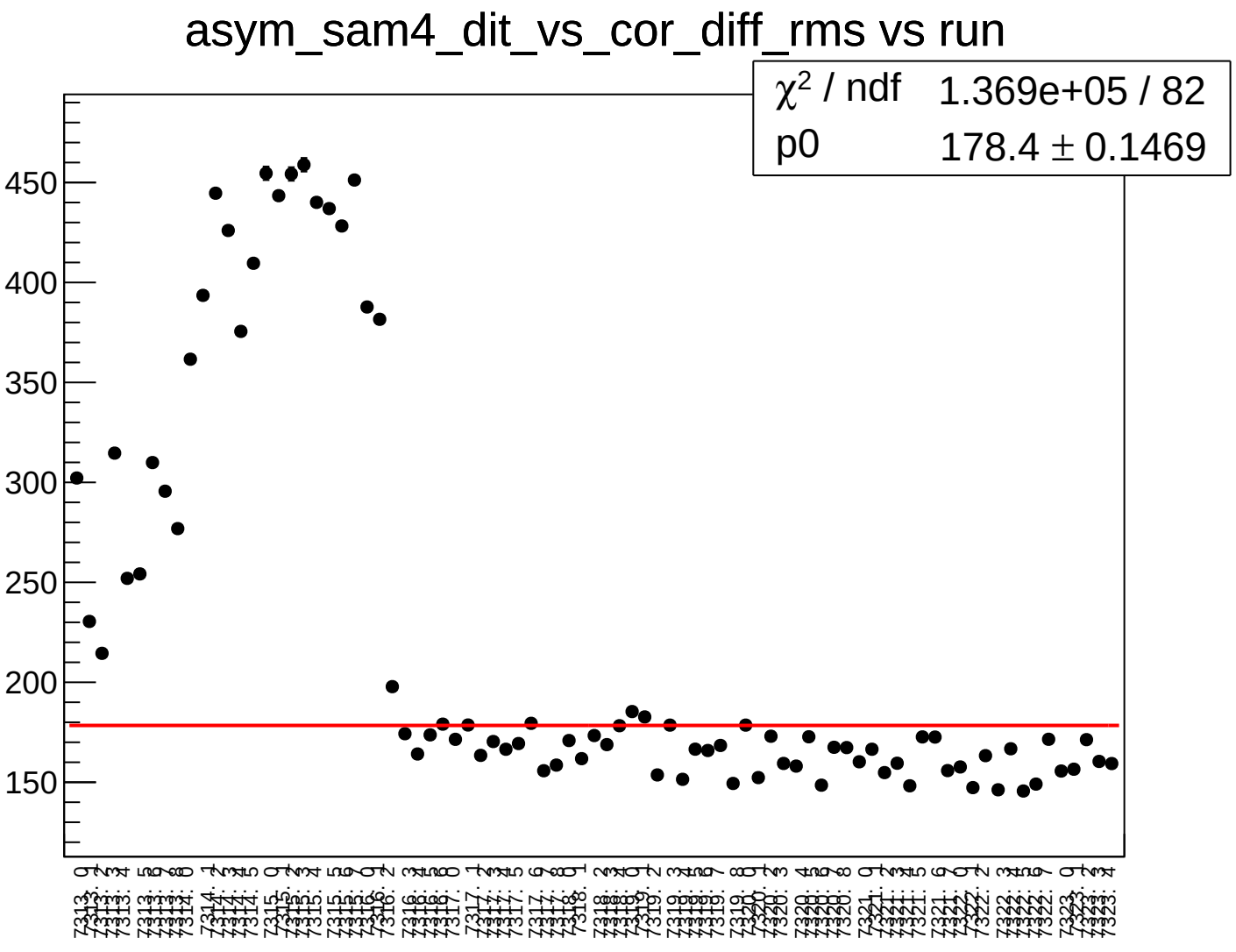

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 76 / 82
p0 −1.761e−13 ± 9.147e−14
pull
Entries 83
Mean 34.92
Std Dev 0

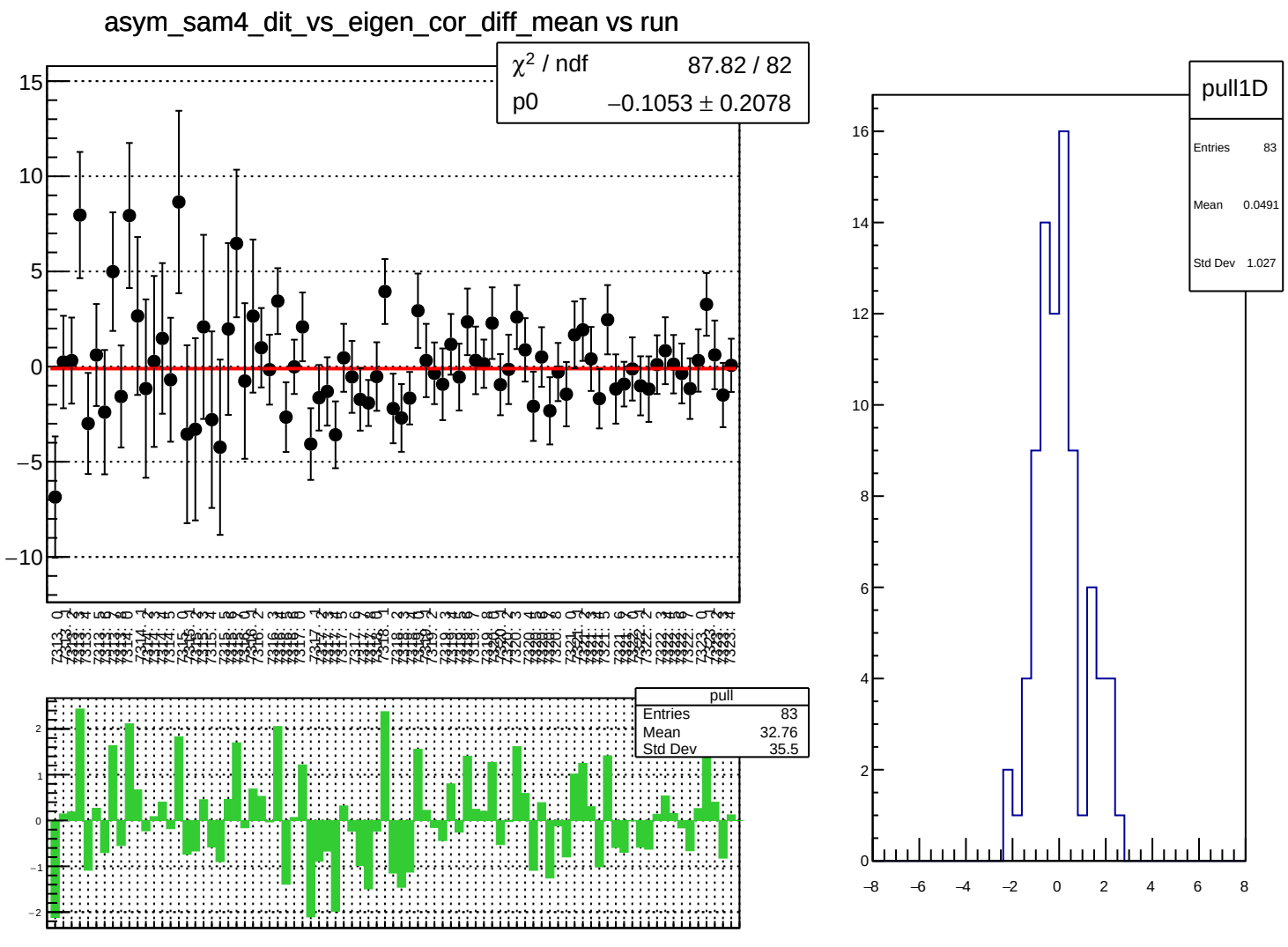

pull1D
Entries 83
Mean −0.1259
Std Dev 0.9486

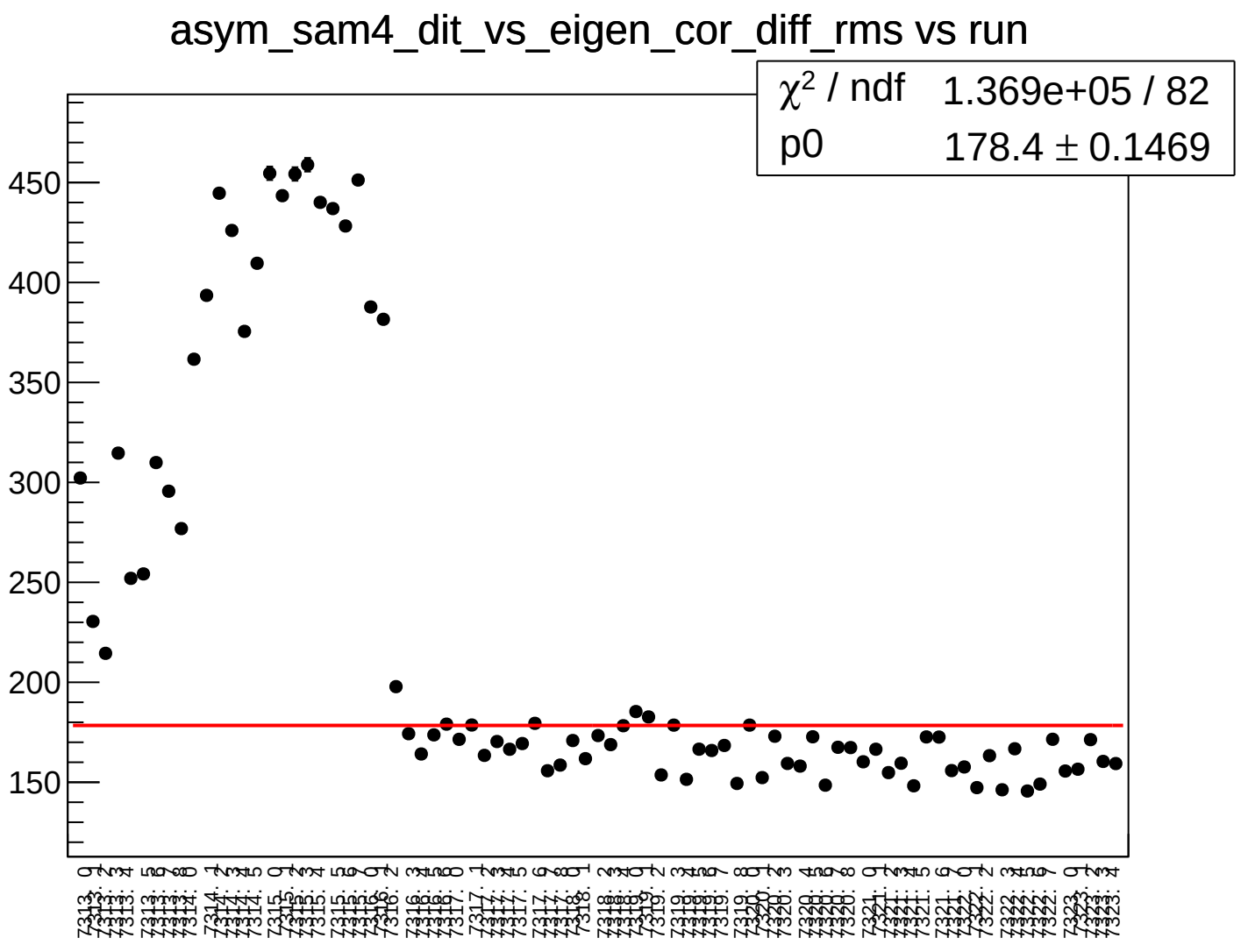

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.195e+06 / 82
p0 4.172e−11 ± 6.468e−14
0.3
0.25
0.2
0.15
0.1
0.05
0

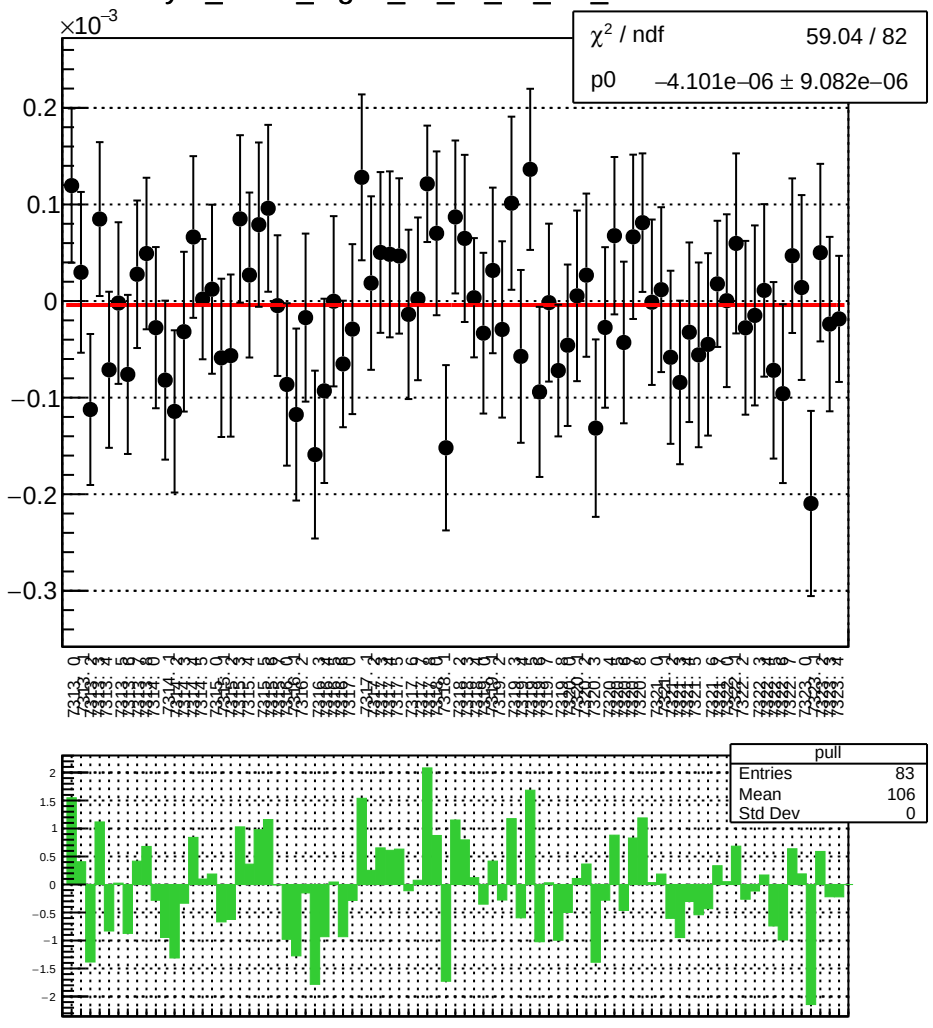

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 87.82 / 82
p0 −0.1053 ± 0.2078
pull
Entries 83
Mean 32.76
Std Dev 35.5

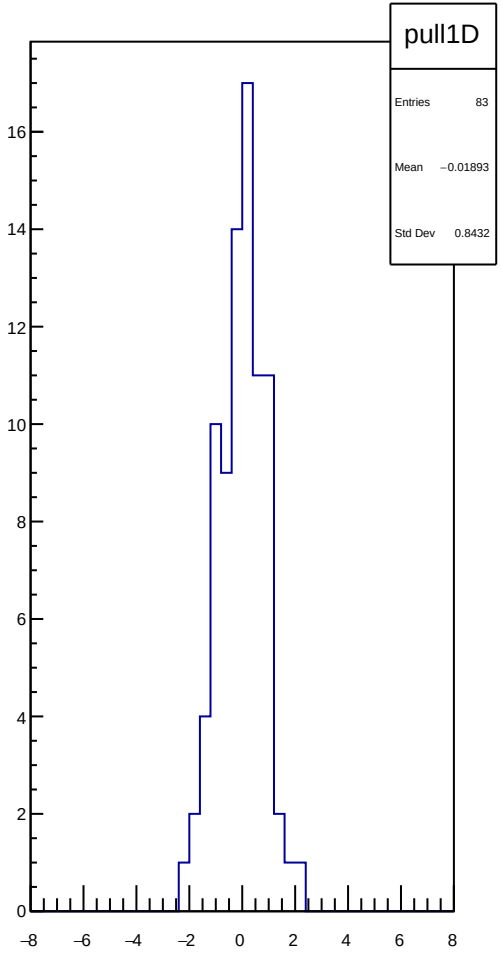

pull1D
Entries 83
Mean 0.0491
Std Dev 1.027

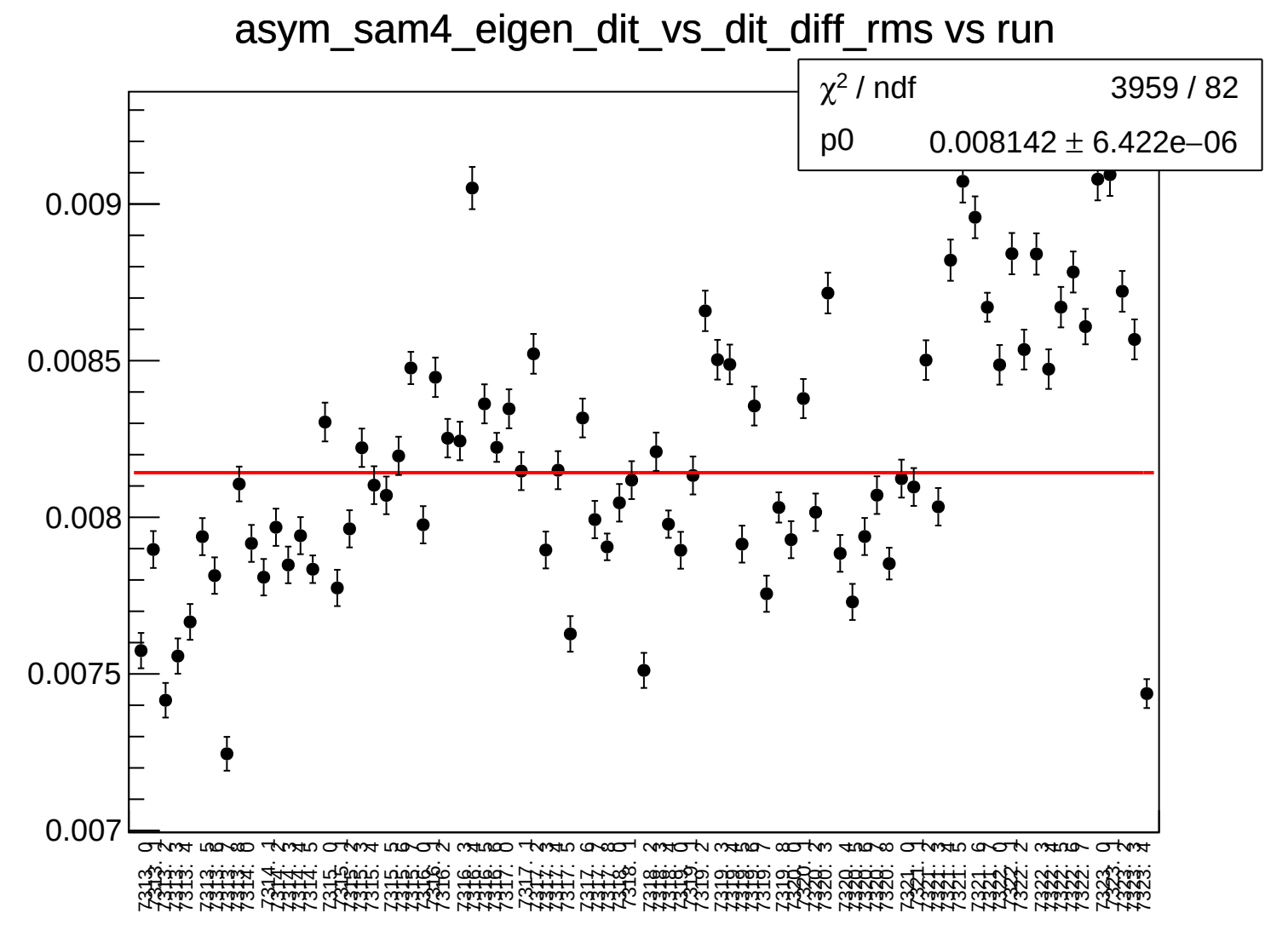

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 82
p0 178.4 ± 0.1469
450
400
350
300
250
200
150

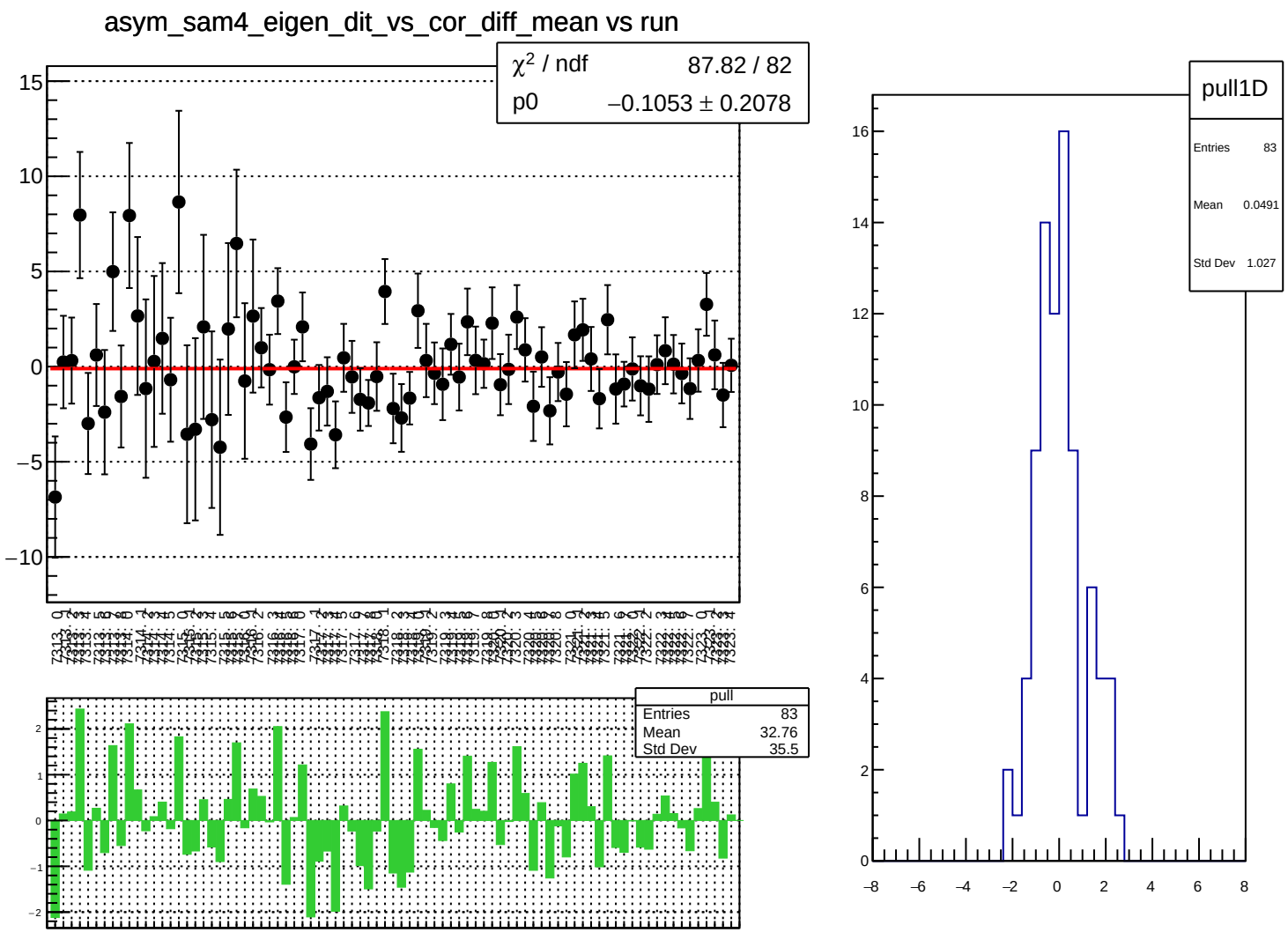

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.82 / 82
p0 −0.1053 ± 0.2078
pull
Entries 83
Mean 32.76
Std Dev 35.5
pull1D
Entries 83
Mean 0.0491
Std Dev 1.027

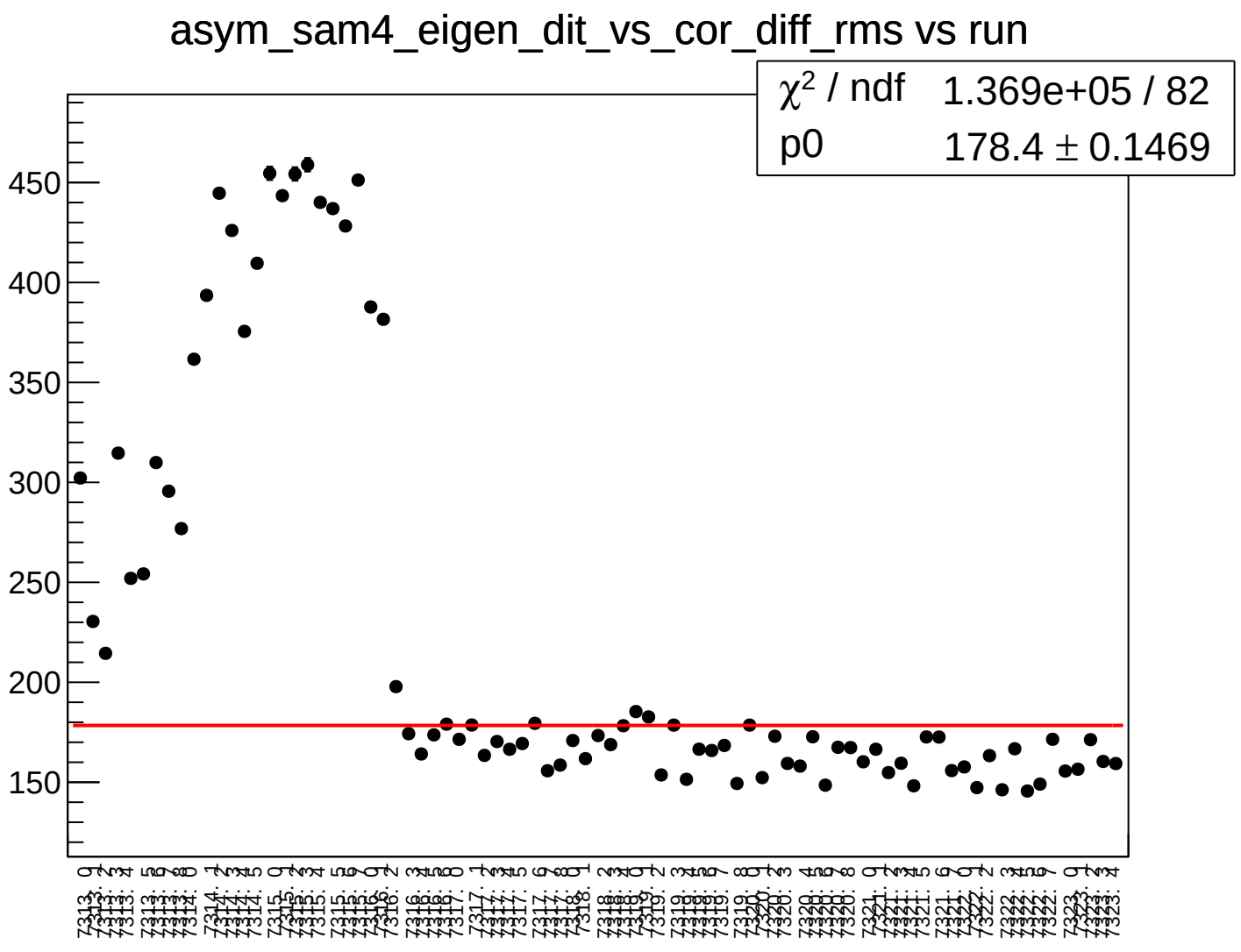

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 82
p0 178.4 ± 0.1469
450
400
350
300
250
200
150

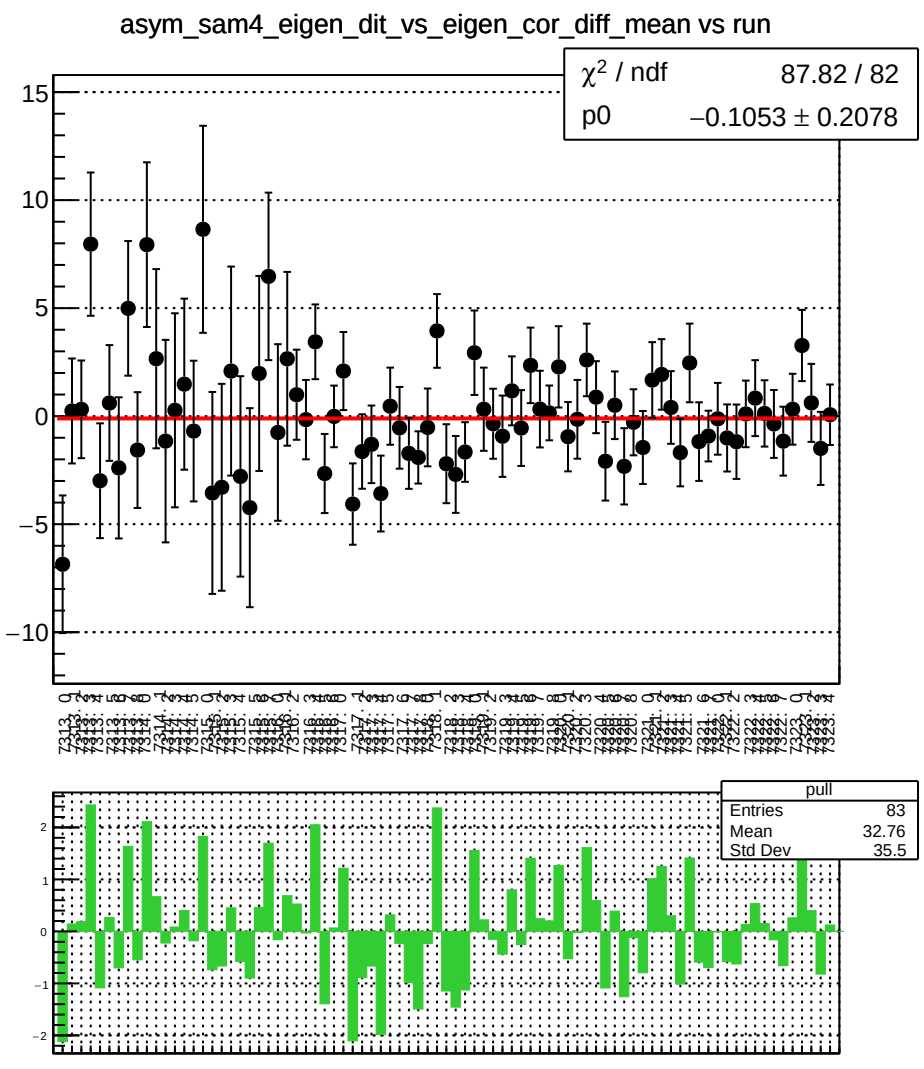

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 59.04 / 82
p0 −4.101e−06 ± 9.082e−06
pull
Entries 83
Mean 106
Std Dev 0

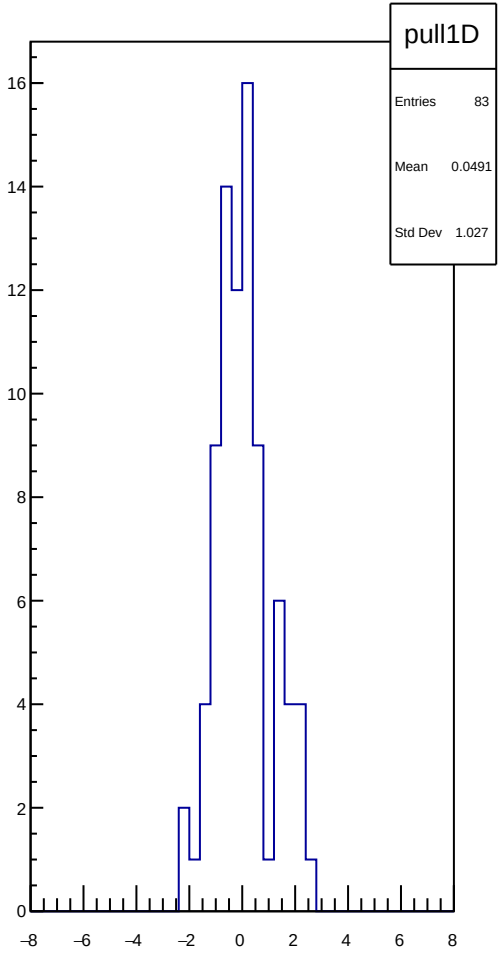

pull1D
Entries 83
Mean −0.01893
Std Dev 0.8432

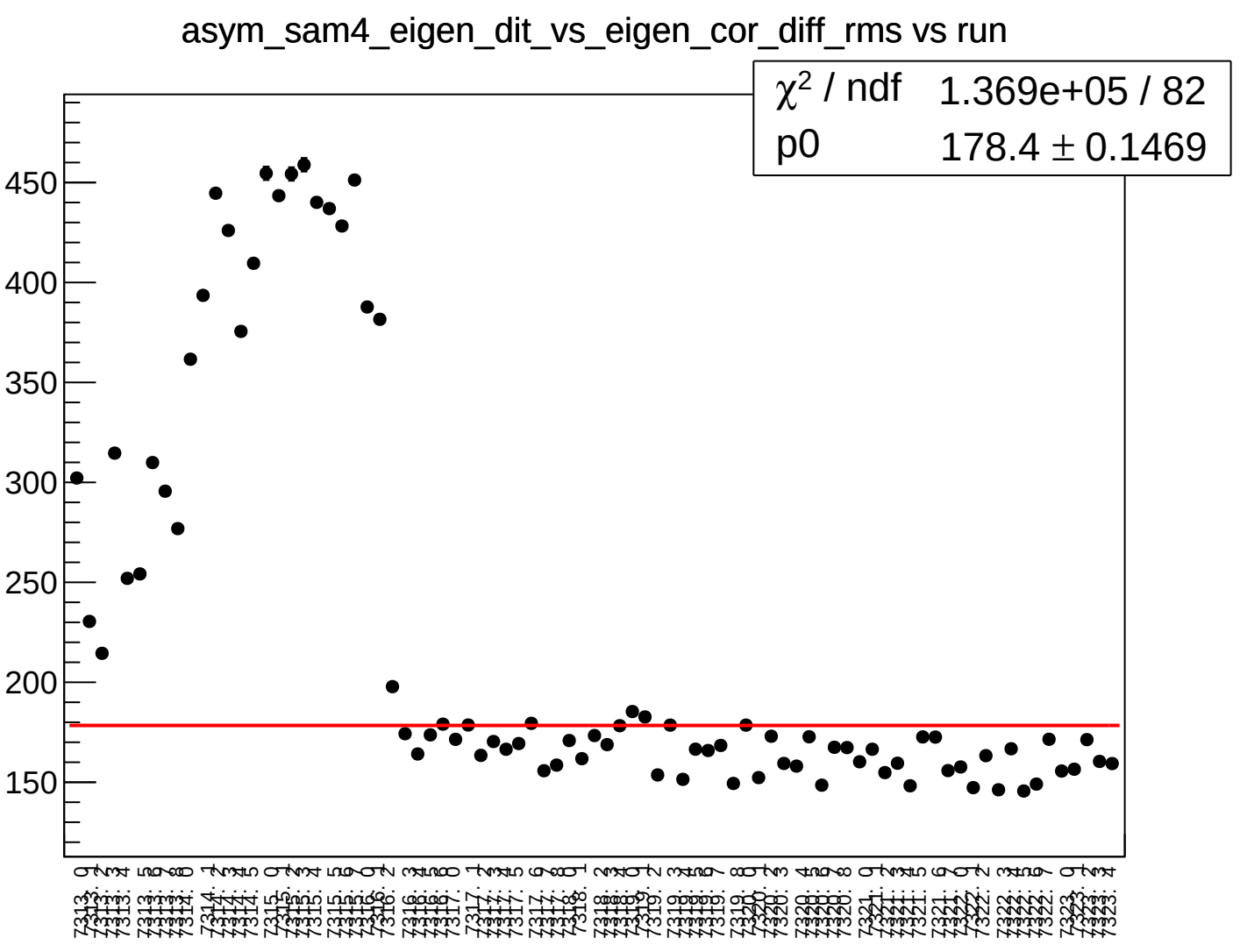

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3959 / 82
p0 0.008142 ± 6.422e−06
0.009
0.0085
0.008
0.0075
0.007

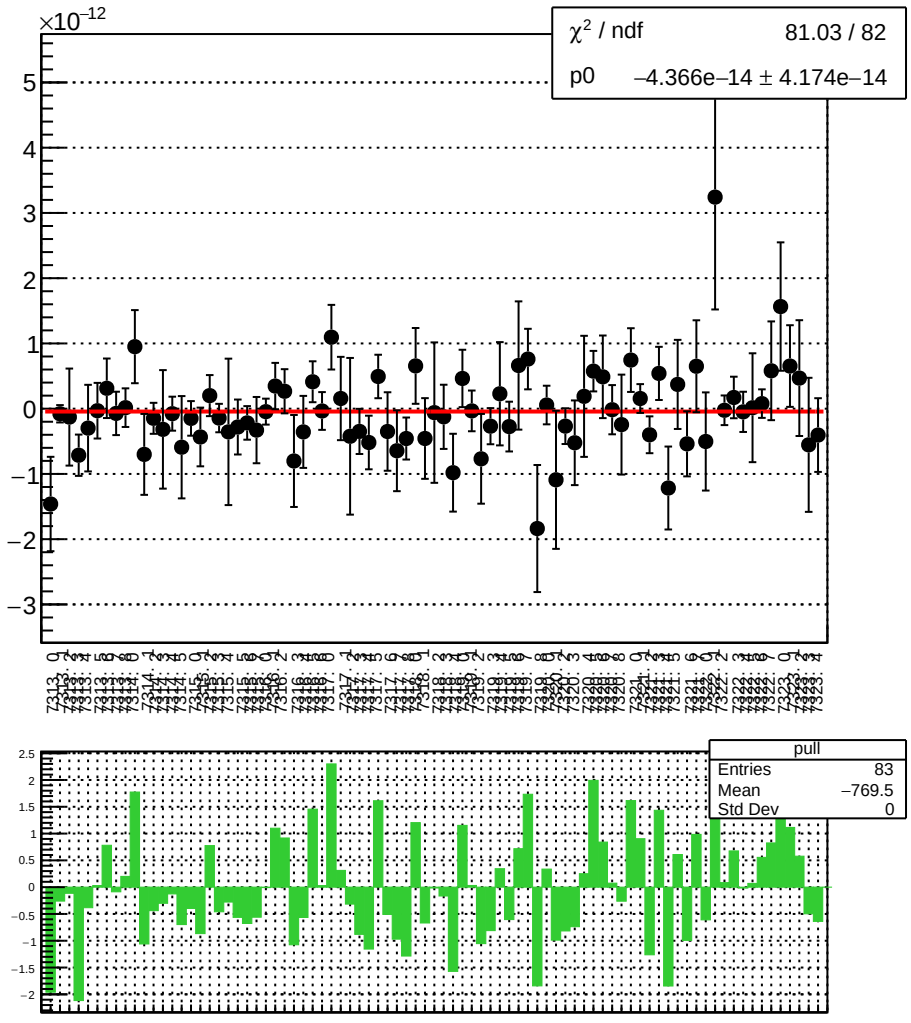

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.82 / 82
p0 −0.1053 ± 0.2078
pull
Entries 83
Mean 32.76
Std Dev 35.5
pull1D
Entries 83
Mean 0.0491
Std Dev 1.027

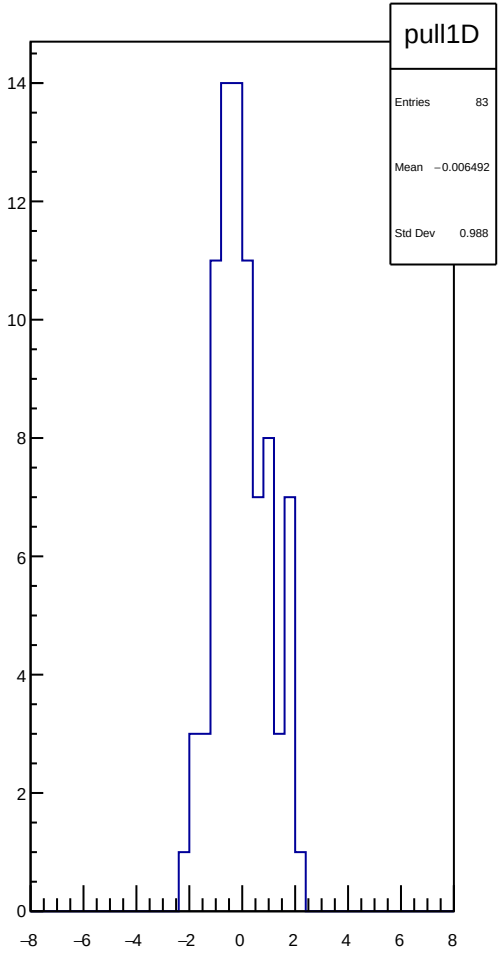

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 82
p0 178.4 ± 0.1469
450
400
350
300
250
200
150

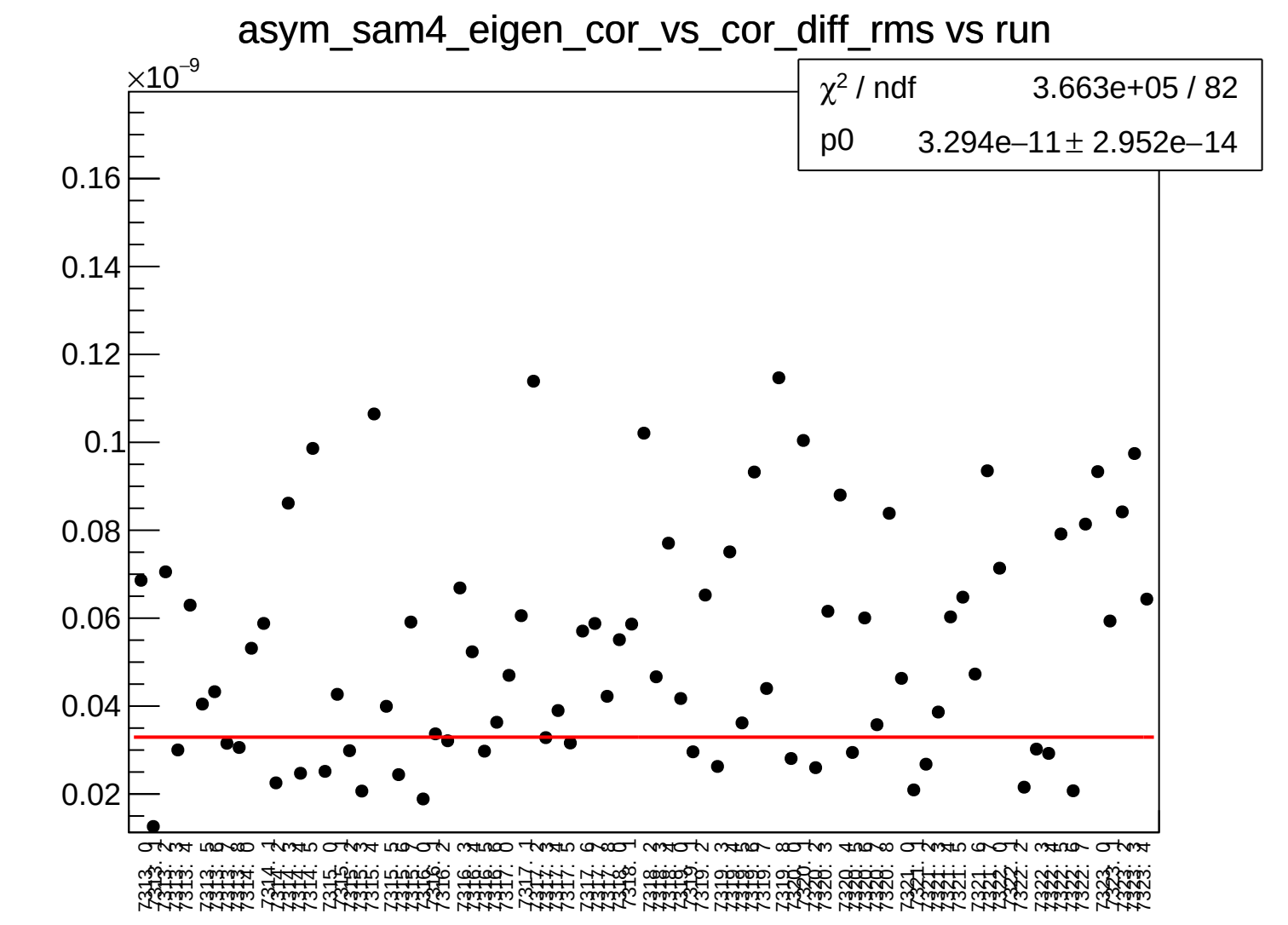

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.82 / 82
p0 −0.1053 ± 0.2078
pull
Entries 83
Mean 32.76
Std Dev 35.5

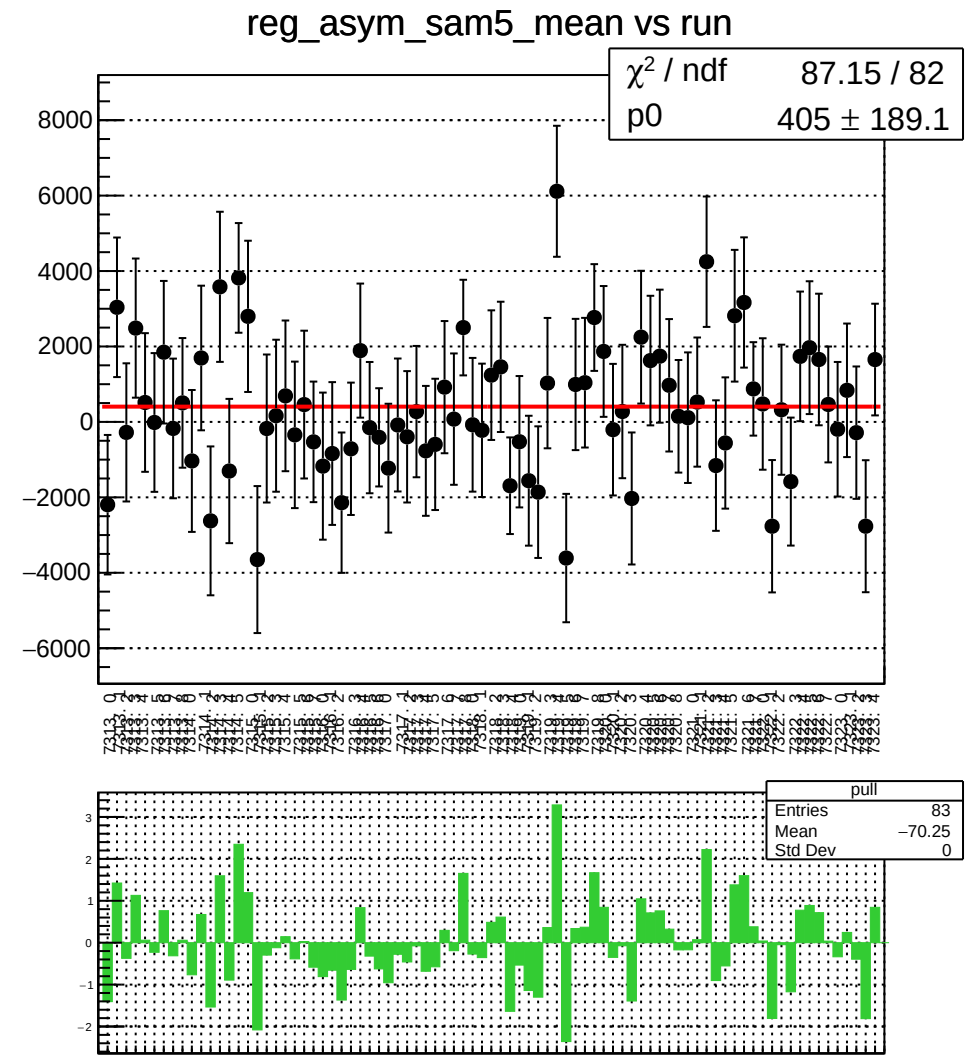

pull1D
Entries 83
Mean 0.0491
Std Dev 1.027

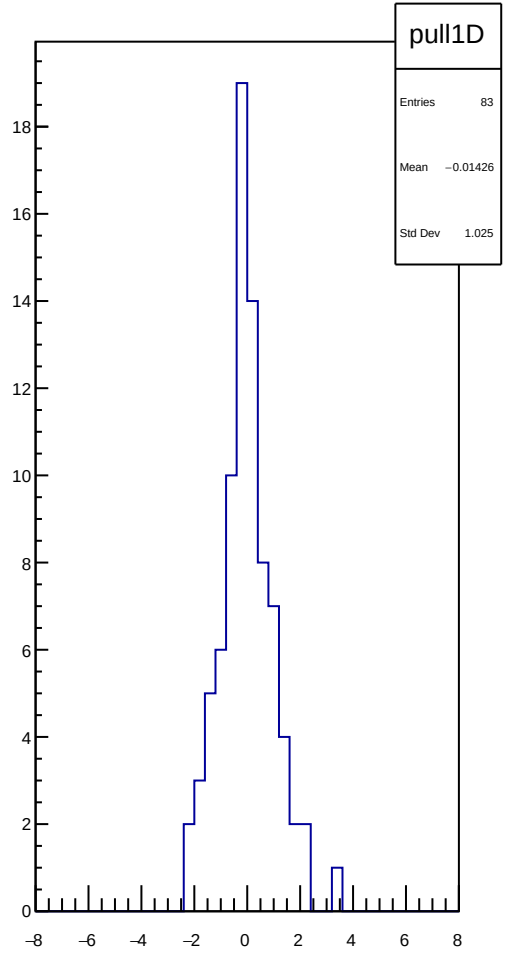

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 82
p0 178.4 ± 0.1469
450
400
350
300
250
200
150

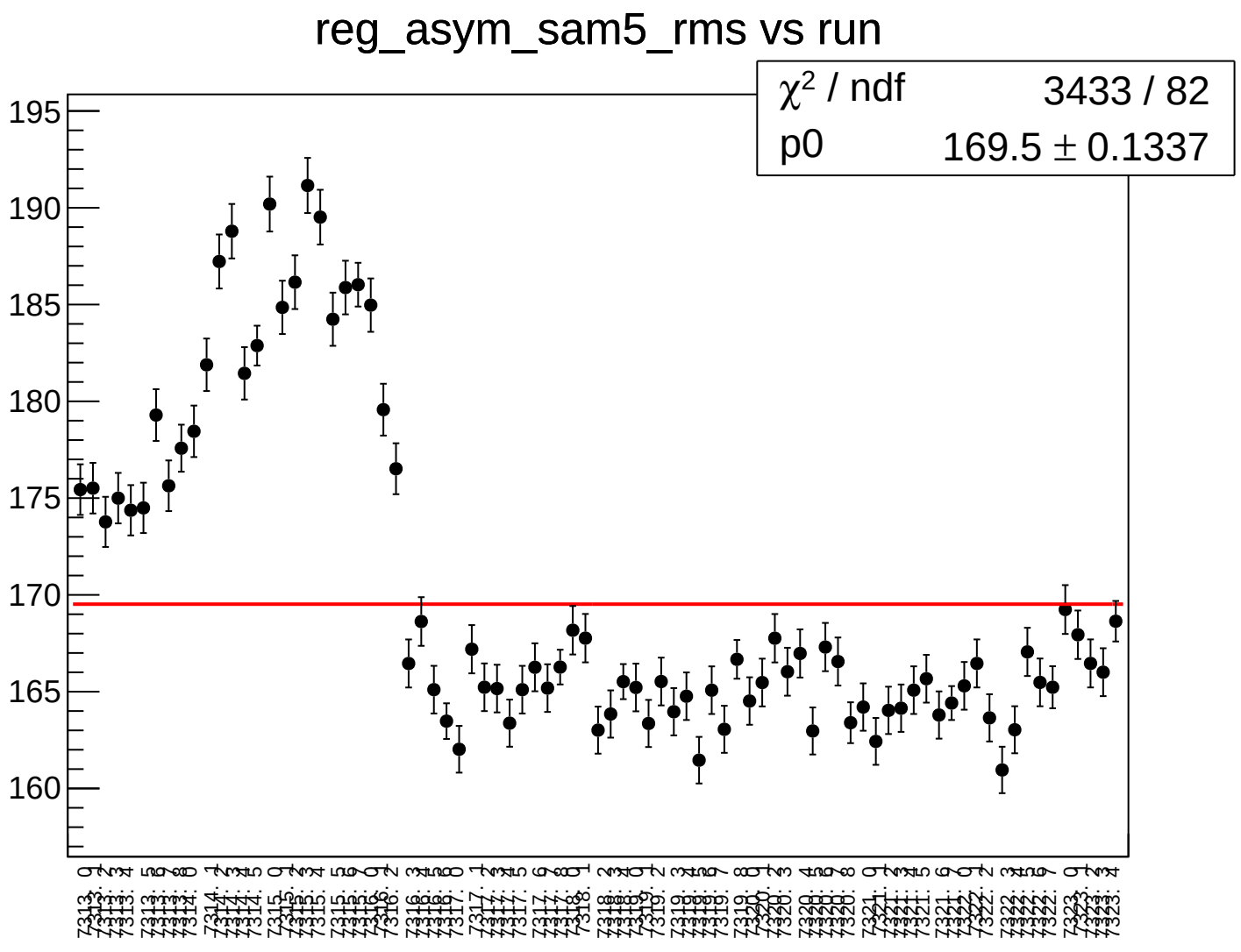

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.03 / 82
p0 −4.366e−14 ± 4.174e−14
pull
Entries 83
Mean −769.5
Std Dev 0

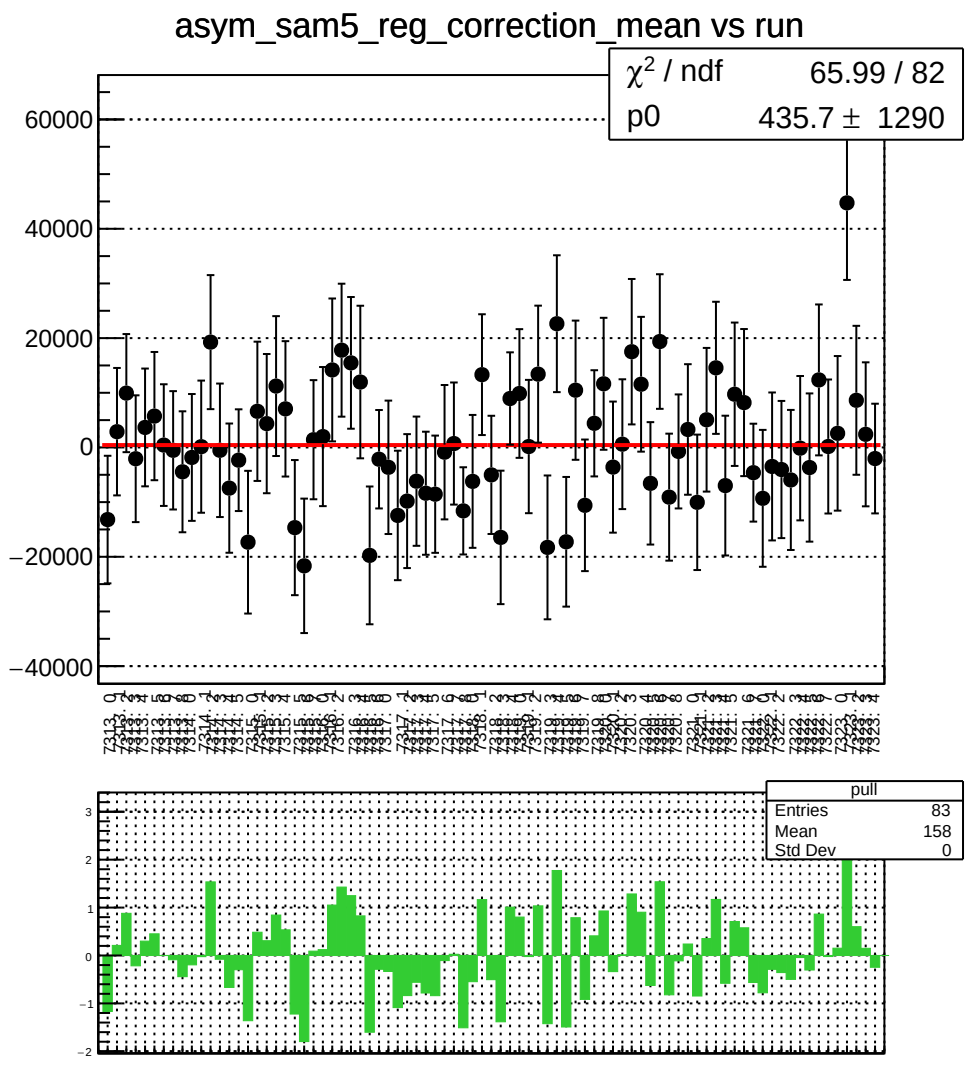

pull1D
Entries 83
Mean −0.006492
Std Dev 0.988

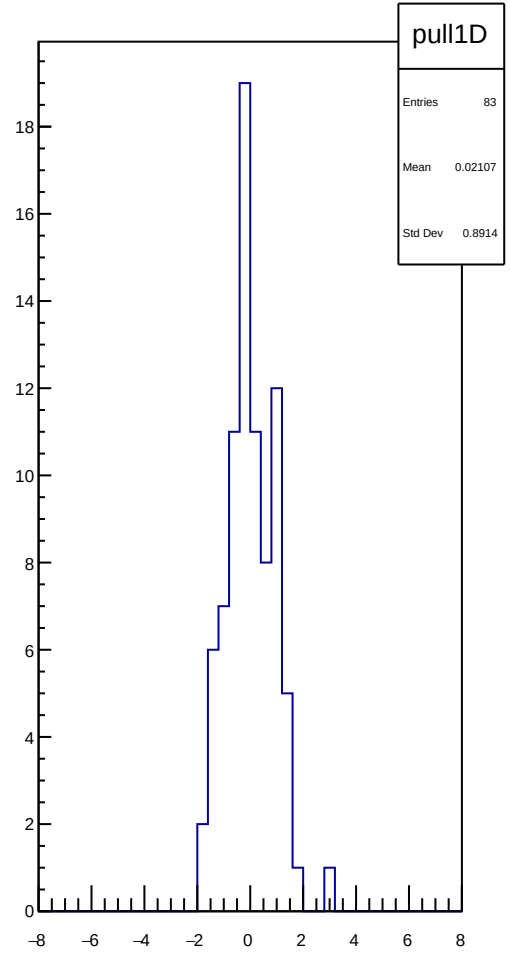

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.663e+05 / 82
p0 3.294e−11 ± 2.952e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

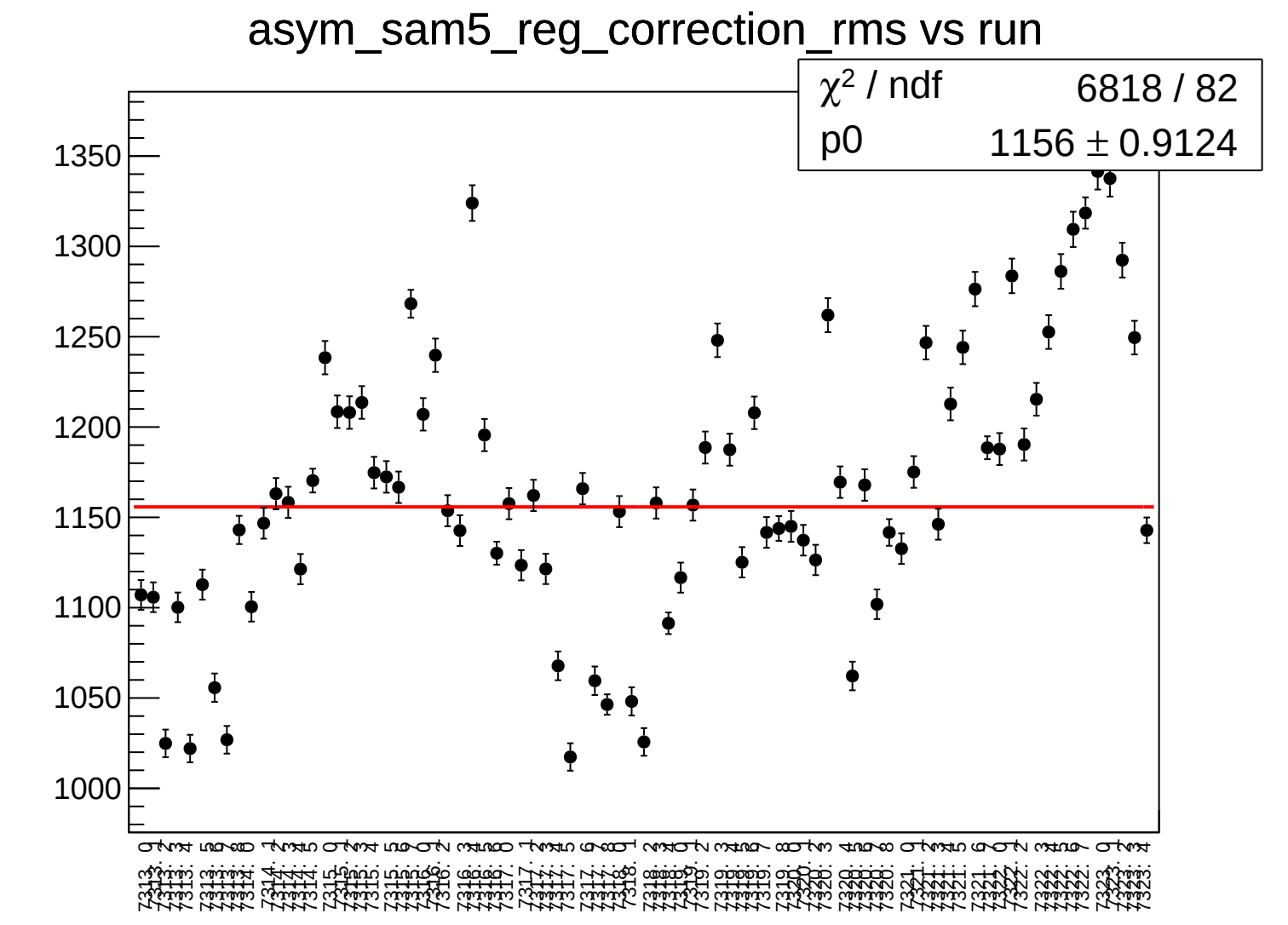

reg_asym_sam5_mean vs run
χ² / ndf 87.15 / 82
p0 405 ± 189.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −70.25
Std Dev 0
3
2
1
0
−1
−2

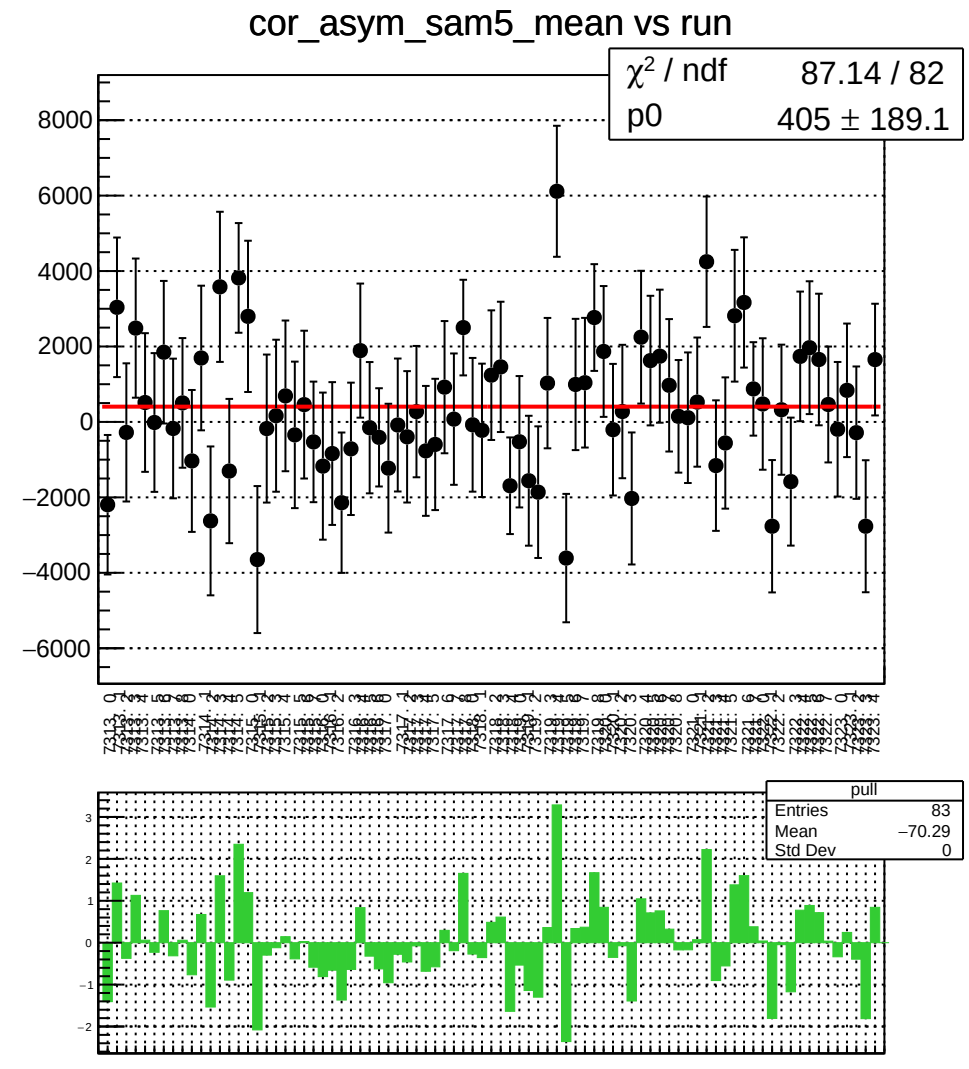

pull1D
Entries 83
Mean −0.01426
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

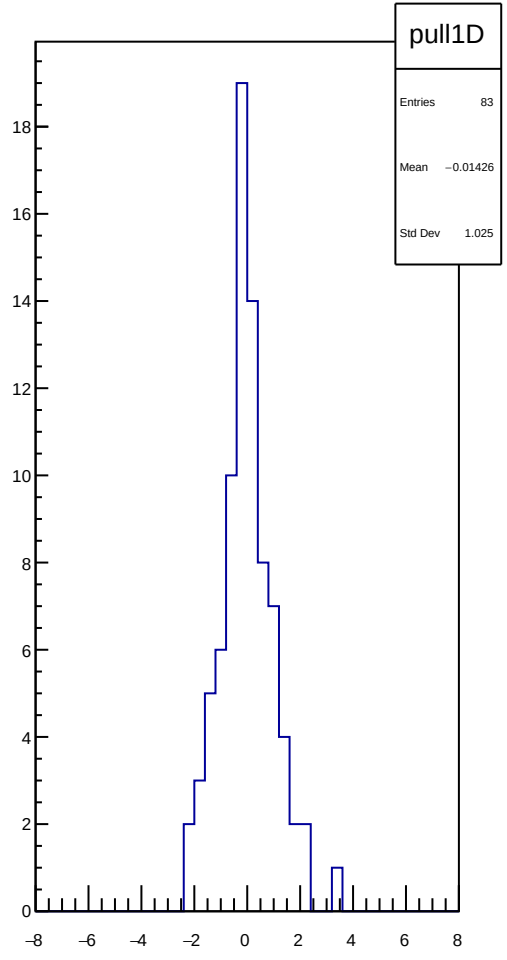

reg_asym_sam5_rms vs run
χ² / ndf 3433 / 82
p0 169.5 ± 0.1337
195
190
185
180
175
170
165
160

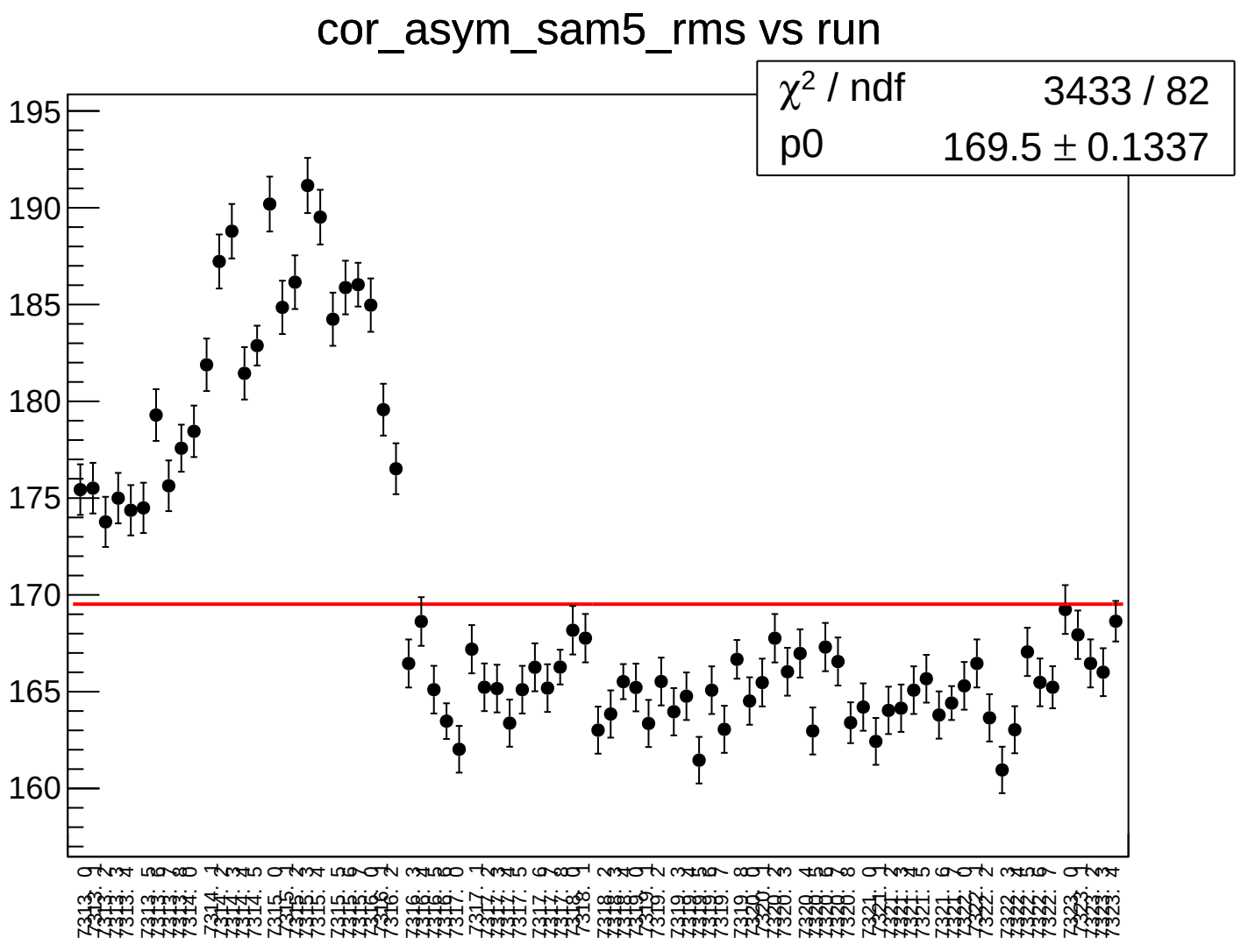

asym_sam5_reg_correction_mean vs run
χ² / ndf 65.99 / 82
p0 435.7 ± 1290
pull
Entries 83
Mean 158
Std Dev 0

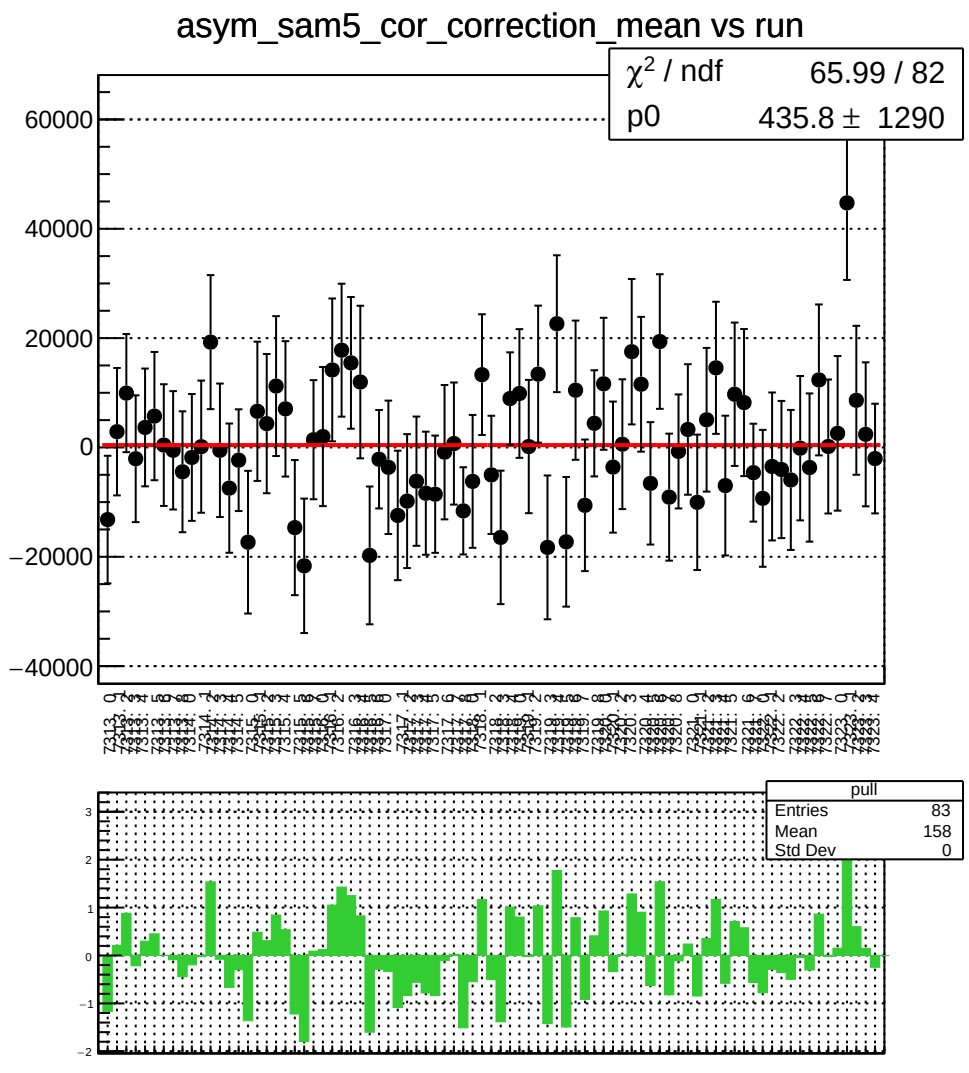

pull1D
Entries 83
Mean 0.02107
Std Dev 0.8914

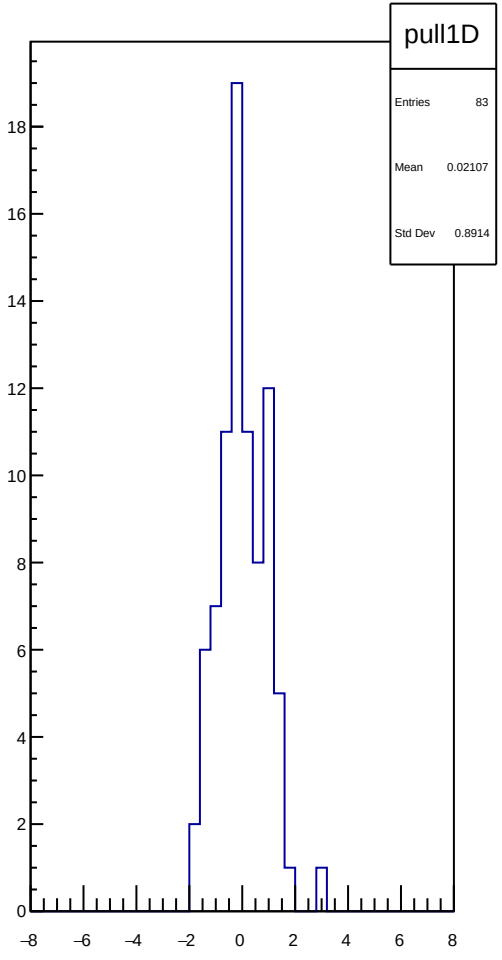

asym_sam5_reg_correction_rms vs run
χ² / ndf 6818 / 82
p0 1156 ± 0.9124
1350
1300
1250
1200
1150
1100
1050
1000

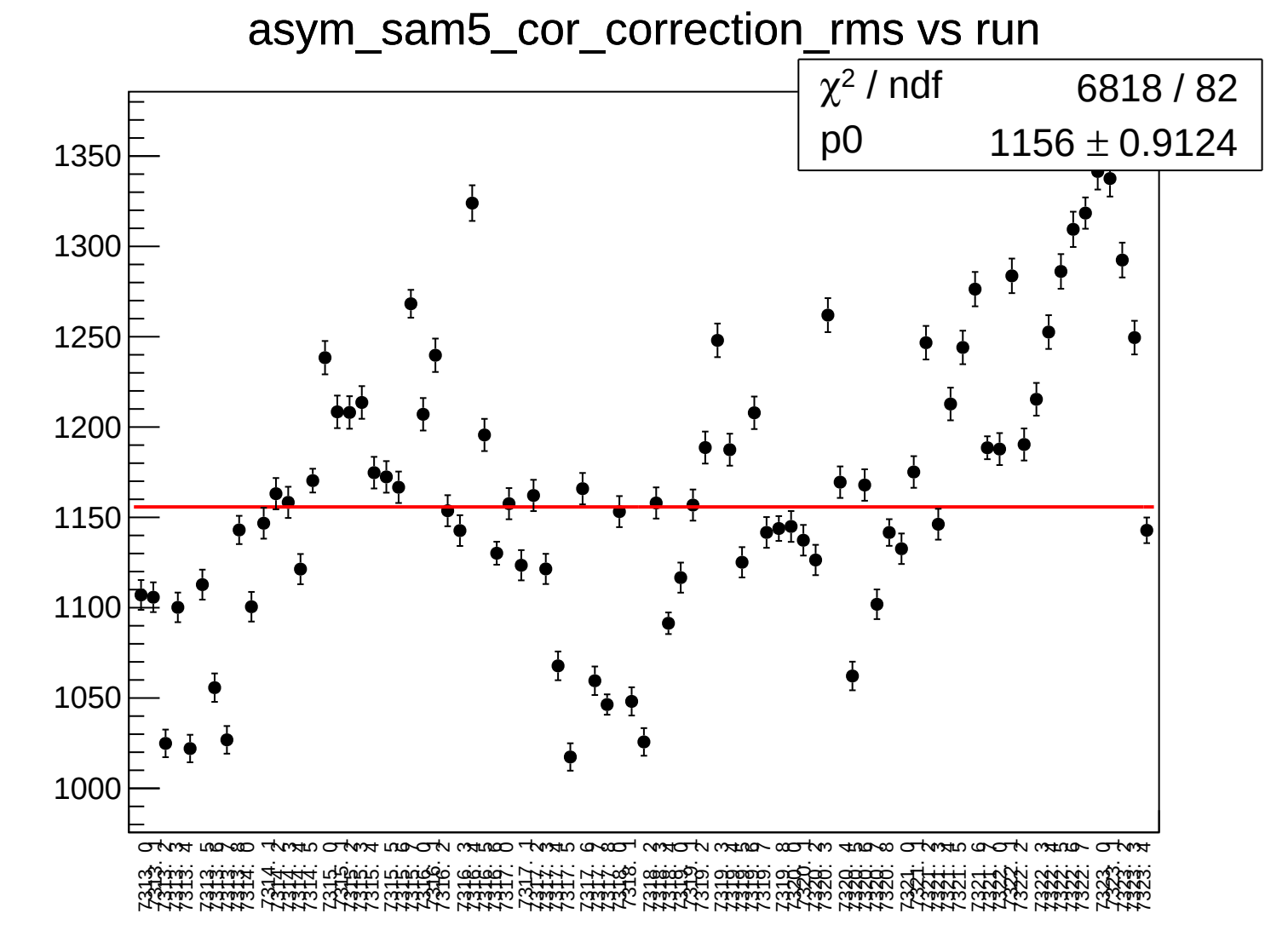

cor_asym_sam5_mean vs run
χ² / ndf 87.14 / 82
p0 405 ± 189.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −70.29
Std Dev 0
3
2
1
0
−1
−2

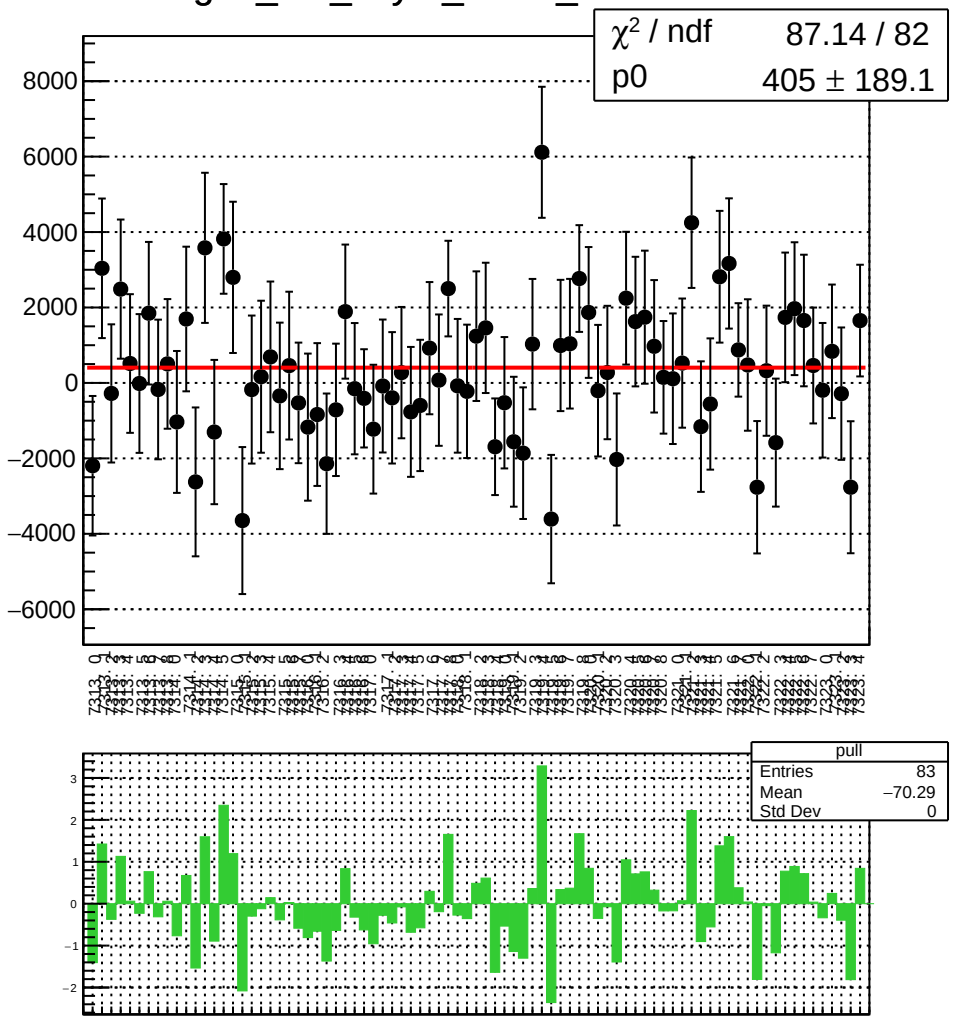

pull1D
Entries 83
Mean −0.01426
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

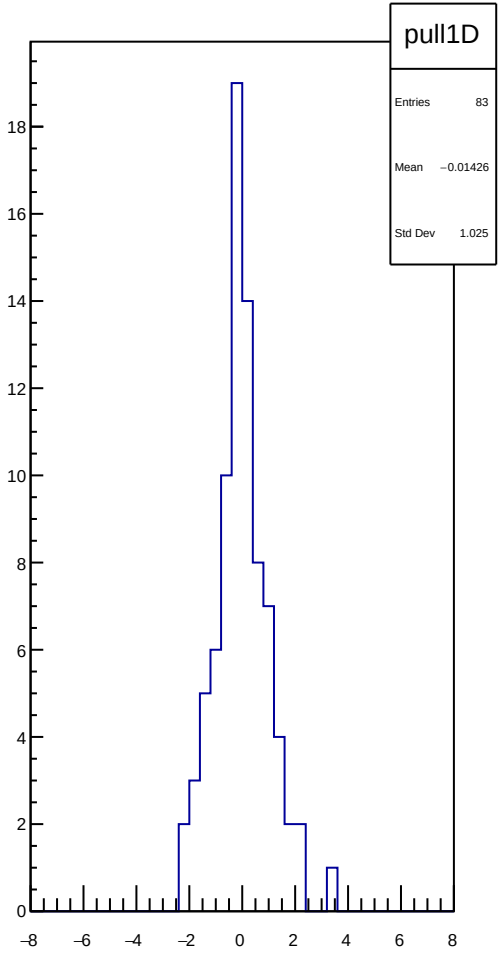

cor_asym_sam5_rms vs run
χ² / ndf 3433 / 82
p0 169.5 ± 0.1337
195
190
185
180
175
170
165
160

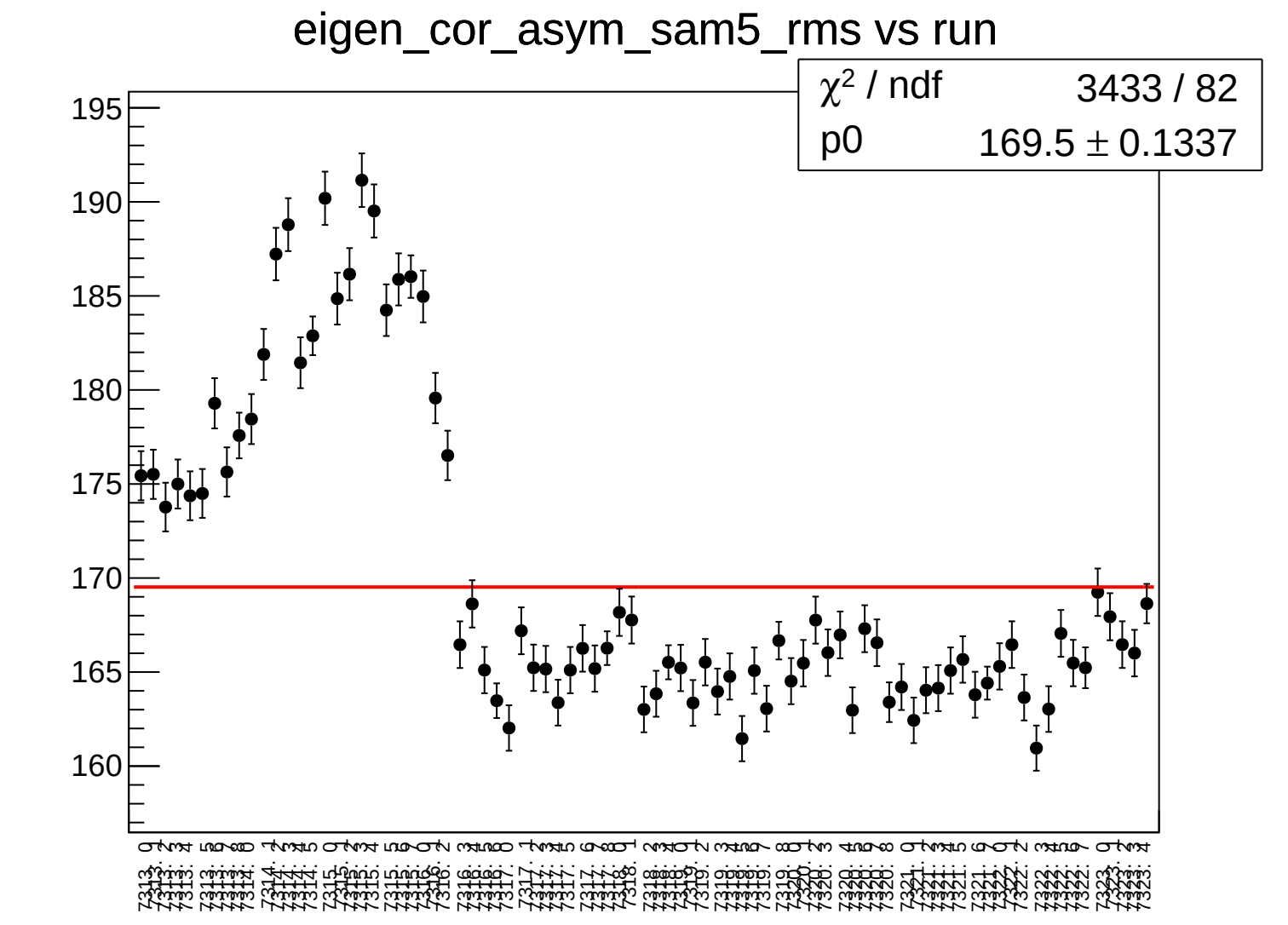

asym_sam5_cor_correction_mean vs run
χ² / ndf 65.99 / 82
p0 435.8 ± 1290
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 158
Std Dev 0
3
2
1
0
−1
−2

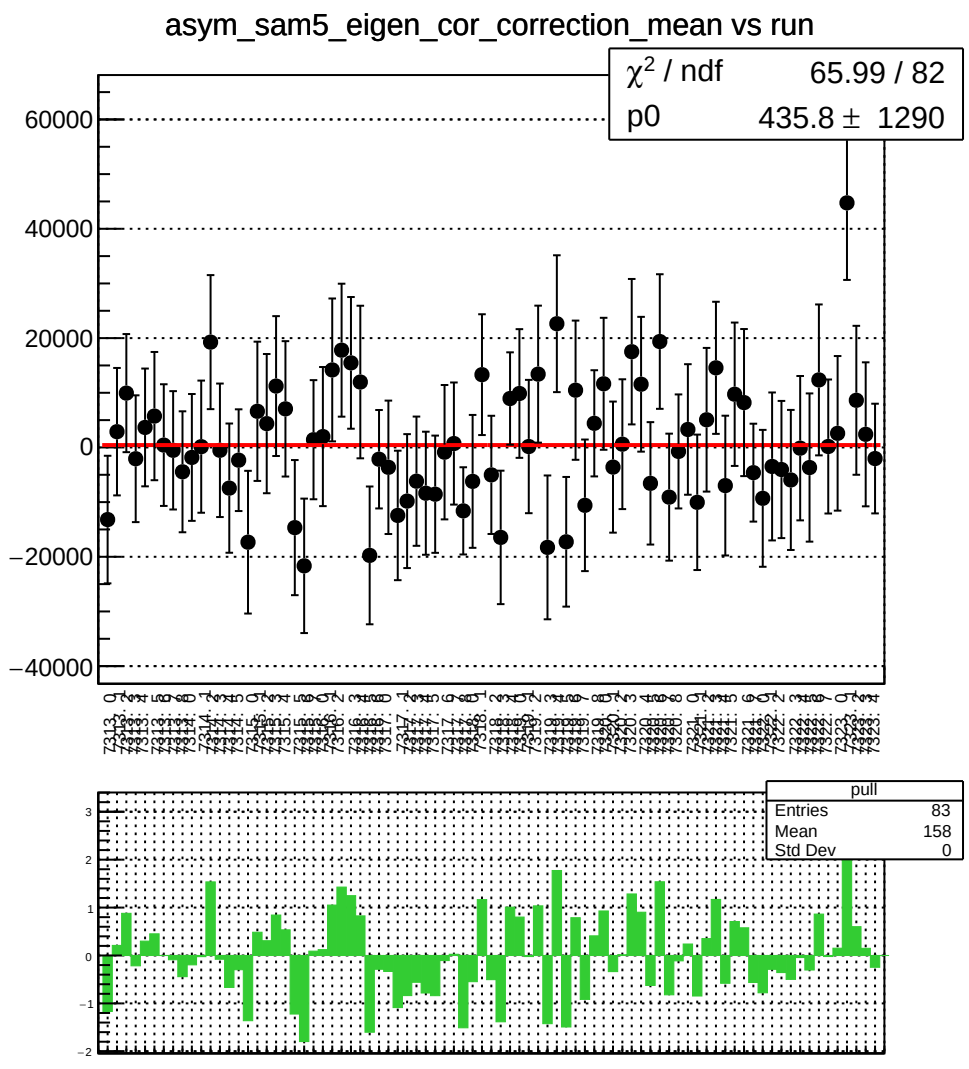

pull1D
Entries 83
Mean 0.02107
Std Dev 0.8914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

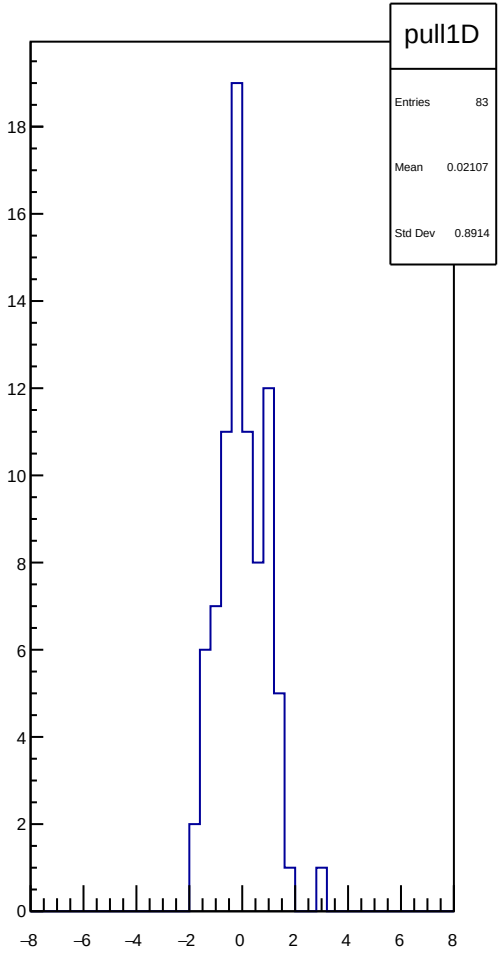

asym_sam5_cor_correction_rms vs run
χ² / ndf 6818 / 82
p0 1156 ± 0.9124
1350
1300
1250
1200
1150
1100
1050
1000

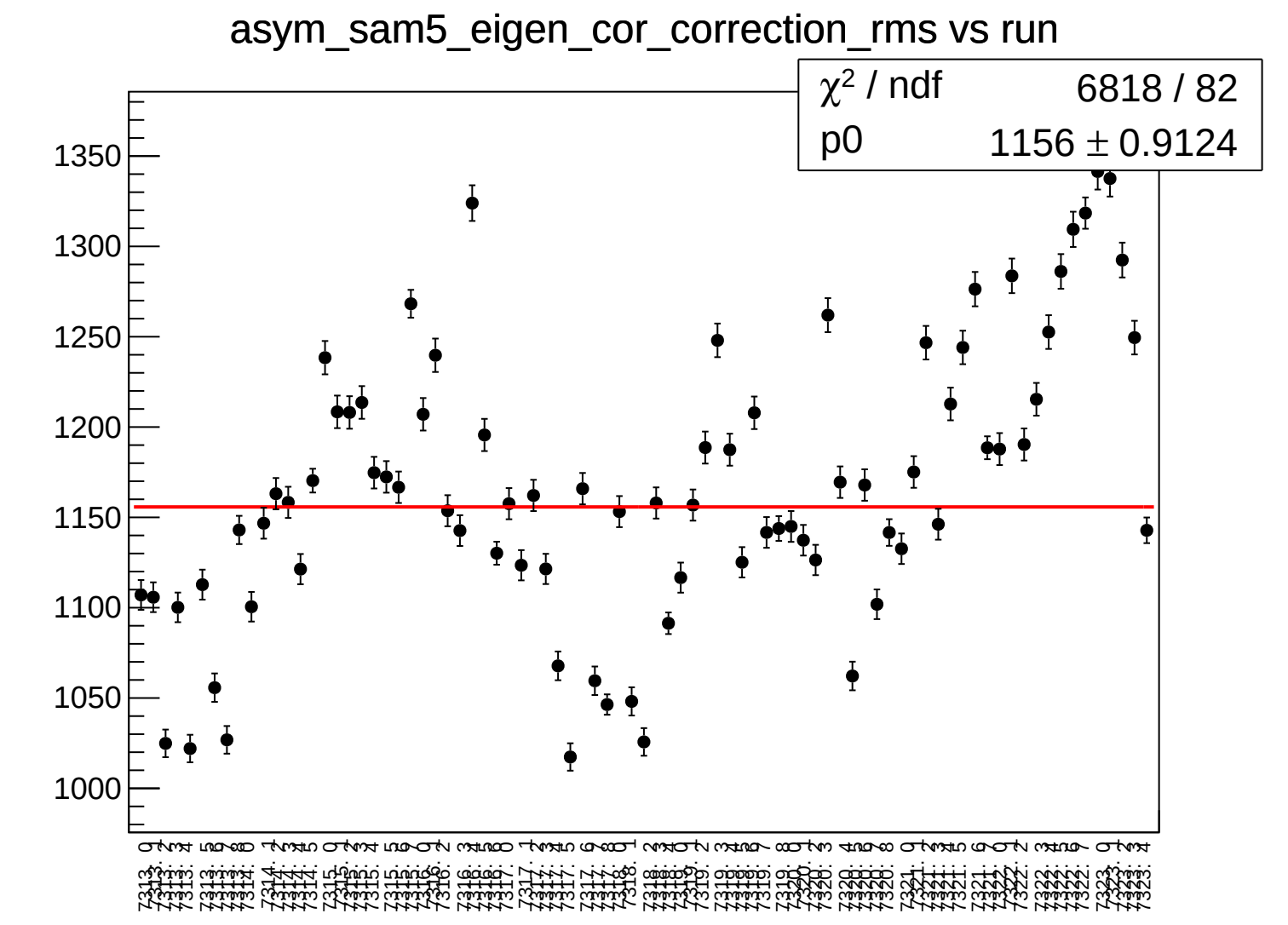

eigen_cor_asym_sam5_mean vs run
χ² / ndf 87.14 / 82
p0 405 ± 189.1
pull
Entries 83
Mean −70.29
Std Dev 0

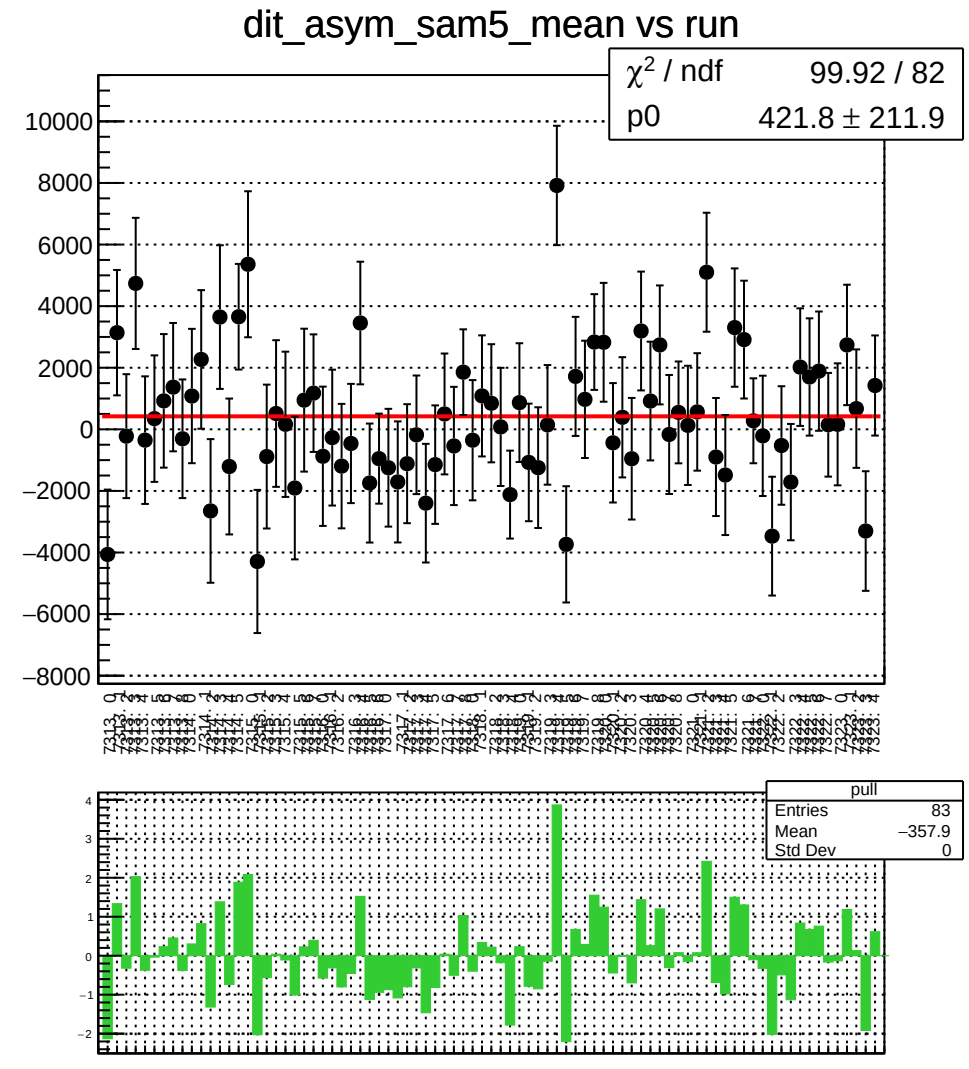

pull1D
Entries 83
Mean −0.01426
Std Dev 1.025

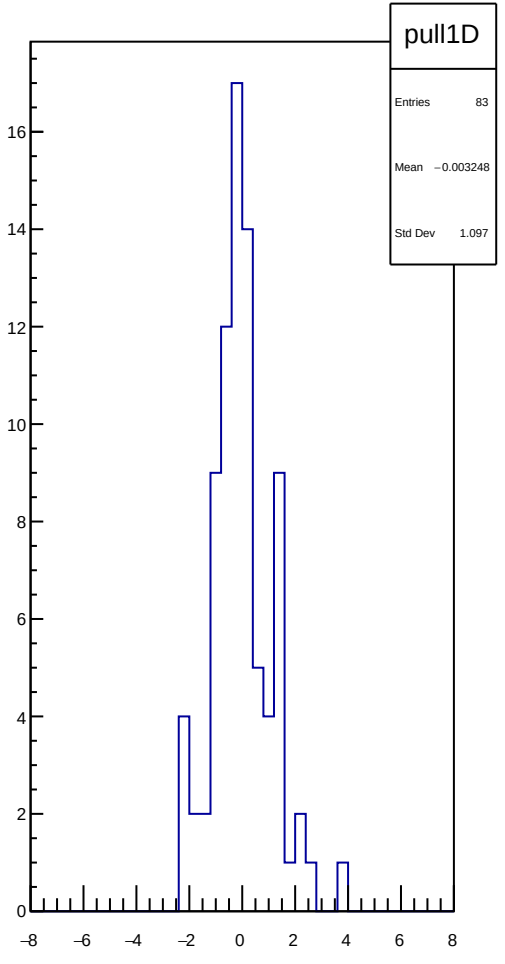

eigen_cor_asym_sam5_rms vs run
χ² / ndf 3433 / 82
p0 169.5 ± 0.1337
195
190
185
180
175
170
165
160

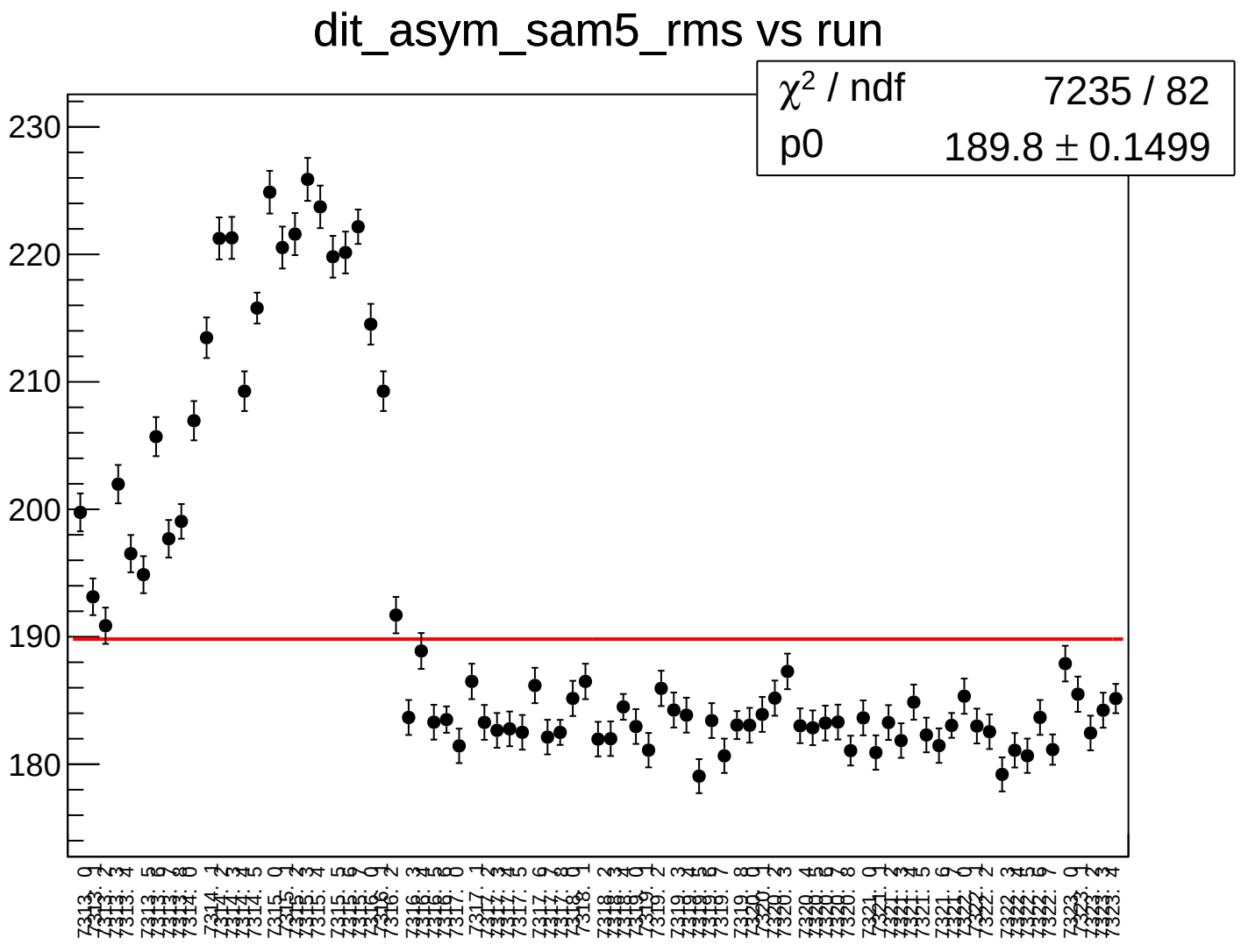

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 65.99 / 82
p0 435.8 ± 1290
pull
Entries 83
Mean 158
Std Dev 0

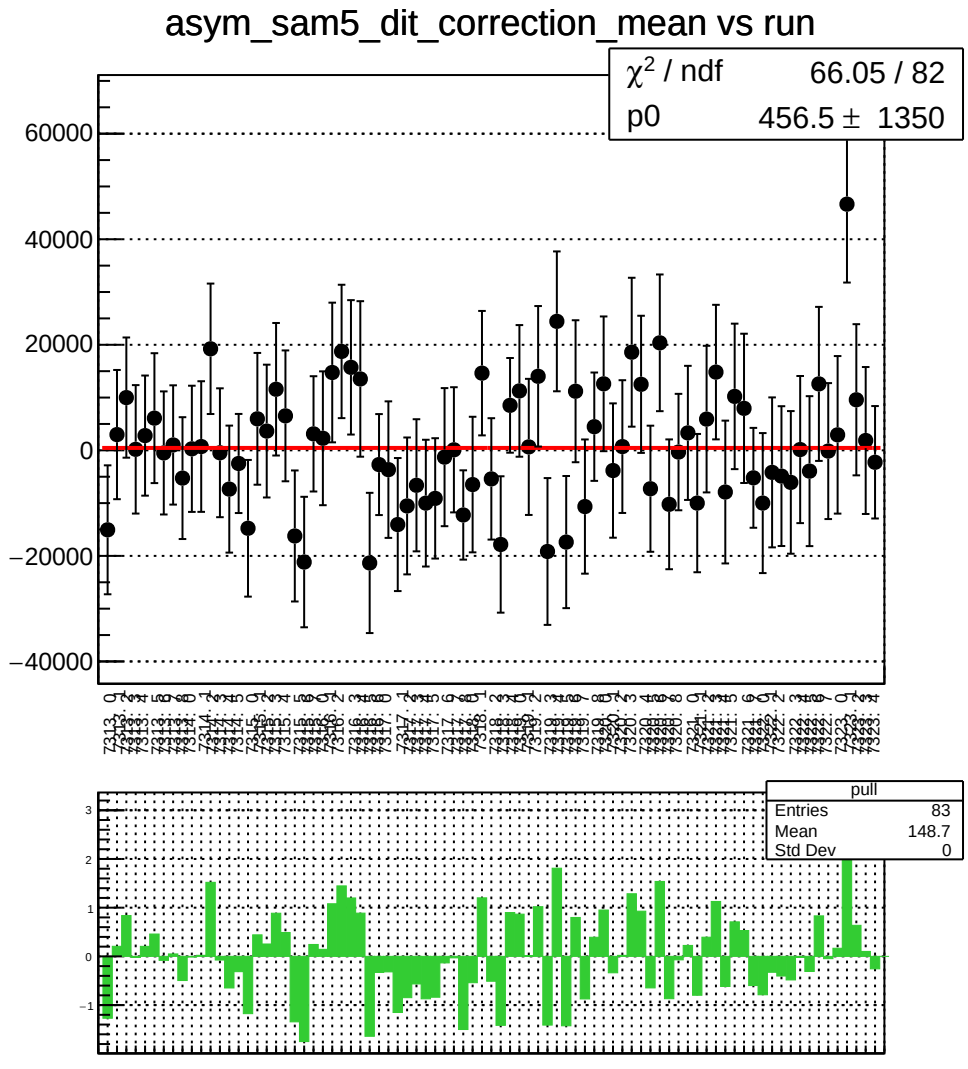

pull1D
Entries 83
Mean 0.02107
Std Dev 0.8914

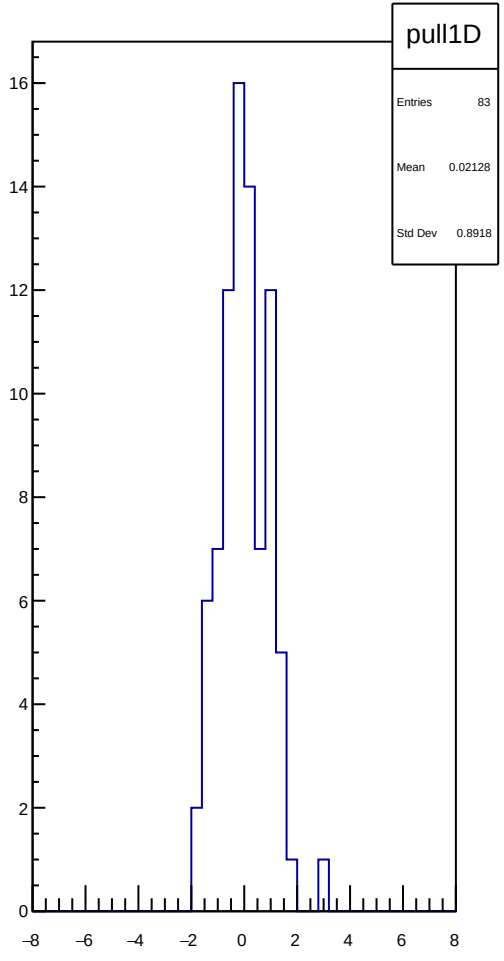

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 6818 / 82
p0 1156 ± 0.9124
1350
1300
1250
1200
1150
1100
1050
1000

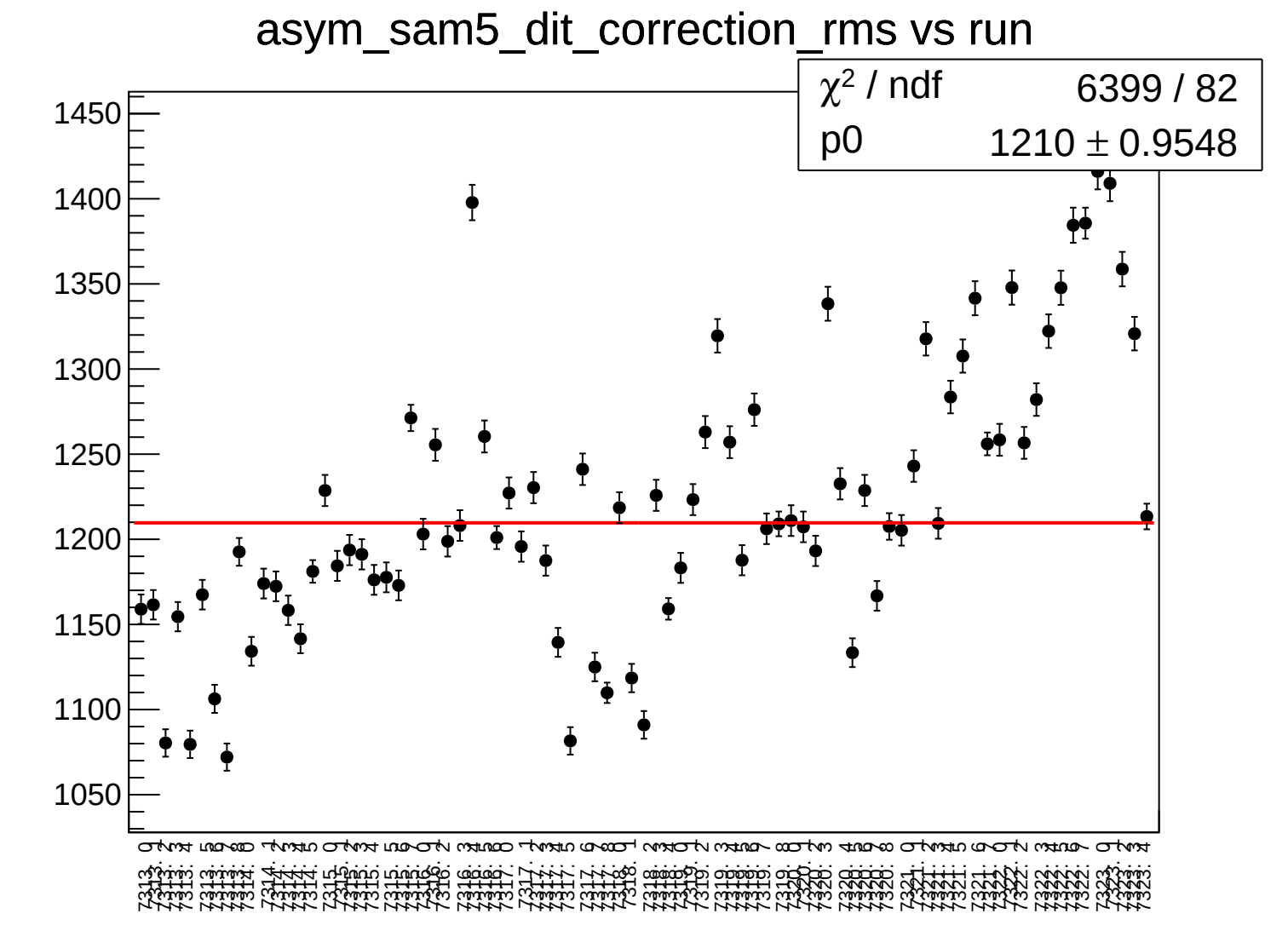

dit_asym_sam5_mean vs run
χ^2 / ndf 99.92 / 82
p0 421.8 ± 211.9
pull
Entries 83
Mean −357.9
Std Dev 0

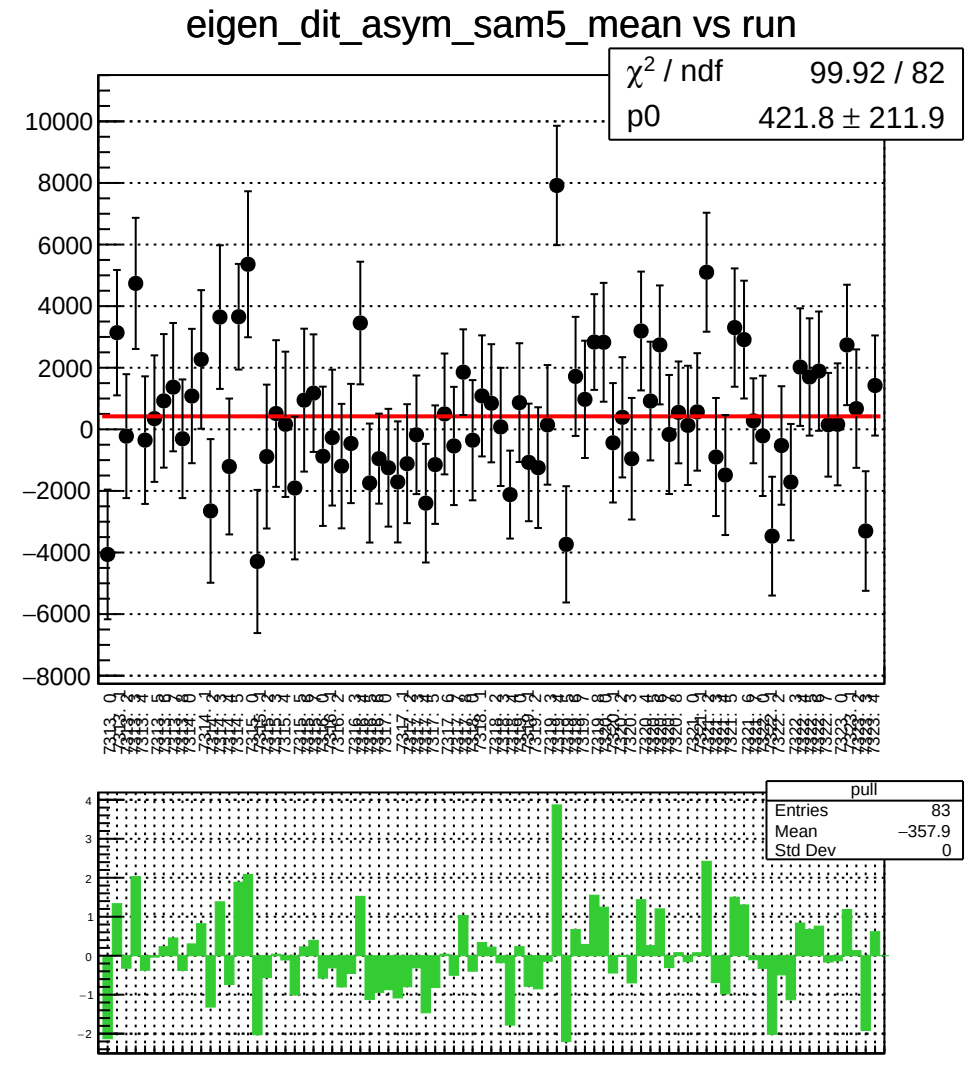

pull1D
Entries 83
Mean −0.003248
Std Dev 1.097

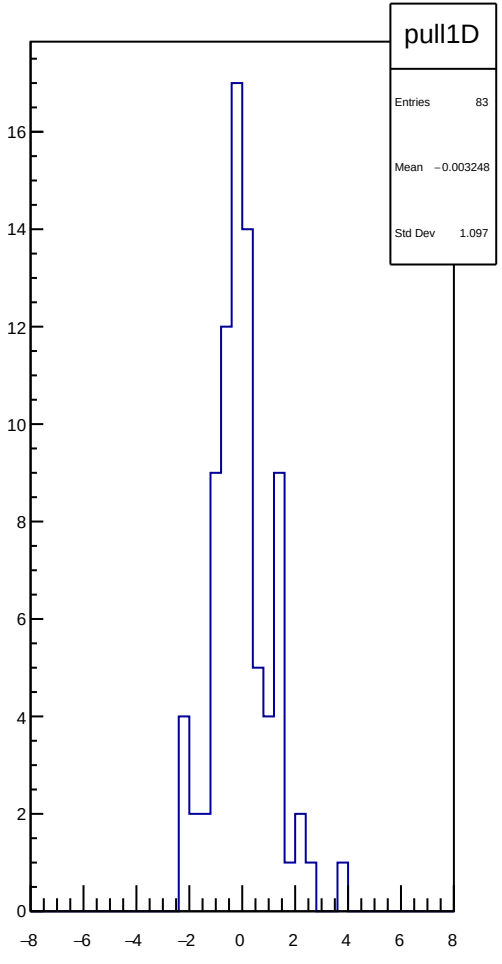

dit_asym_sam5_rms vs run
χ^2 / ndf 7235 / 82
p0 189.8 ± 0.1499
230
220
210
200
190
180

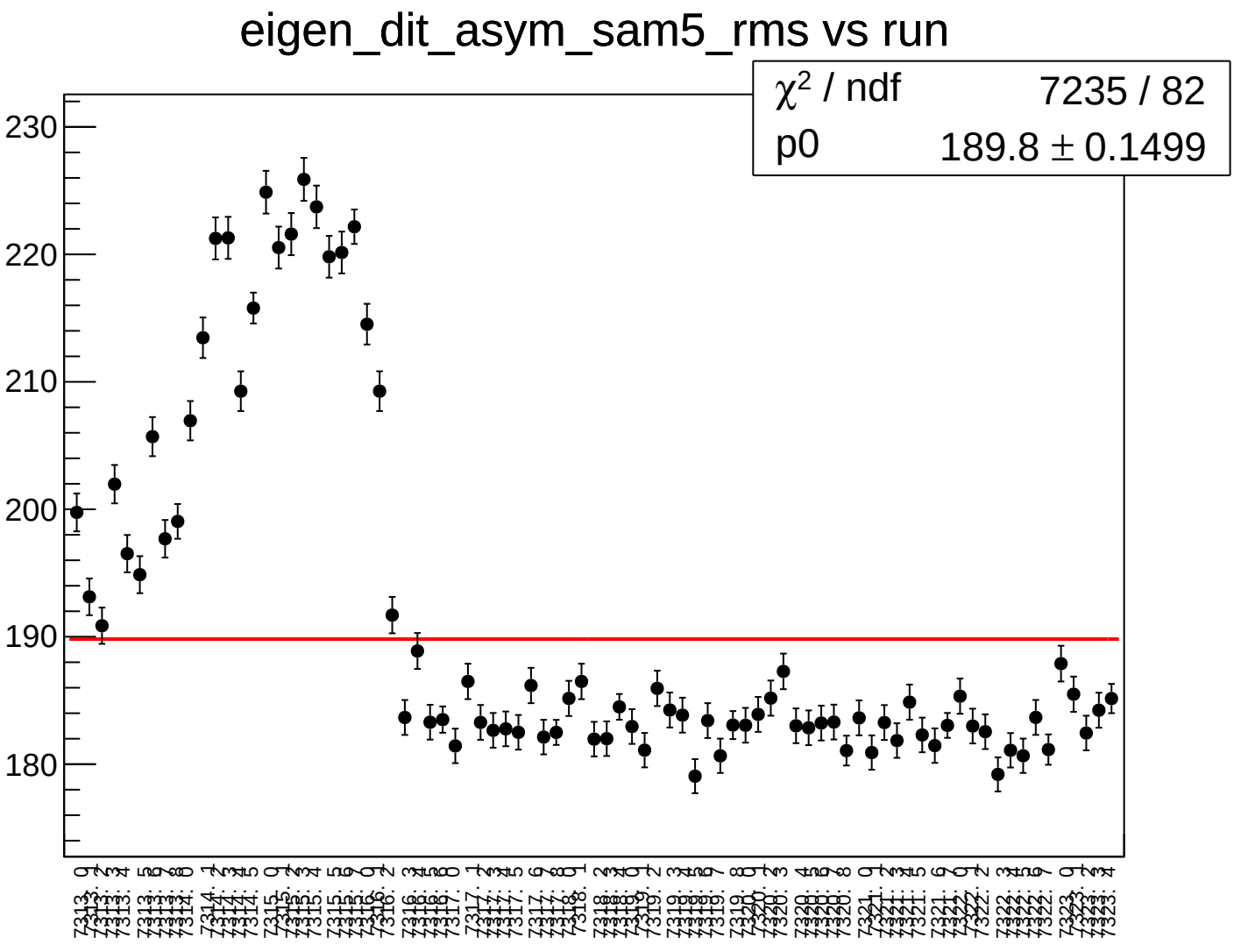

asym_sam5_dit_correction_mean vs run
χ² / ndf 66.05 / 82
p0 456.5 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 148.7
Std Dev 0
3
2
1
0
−1

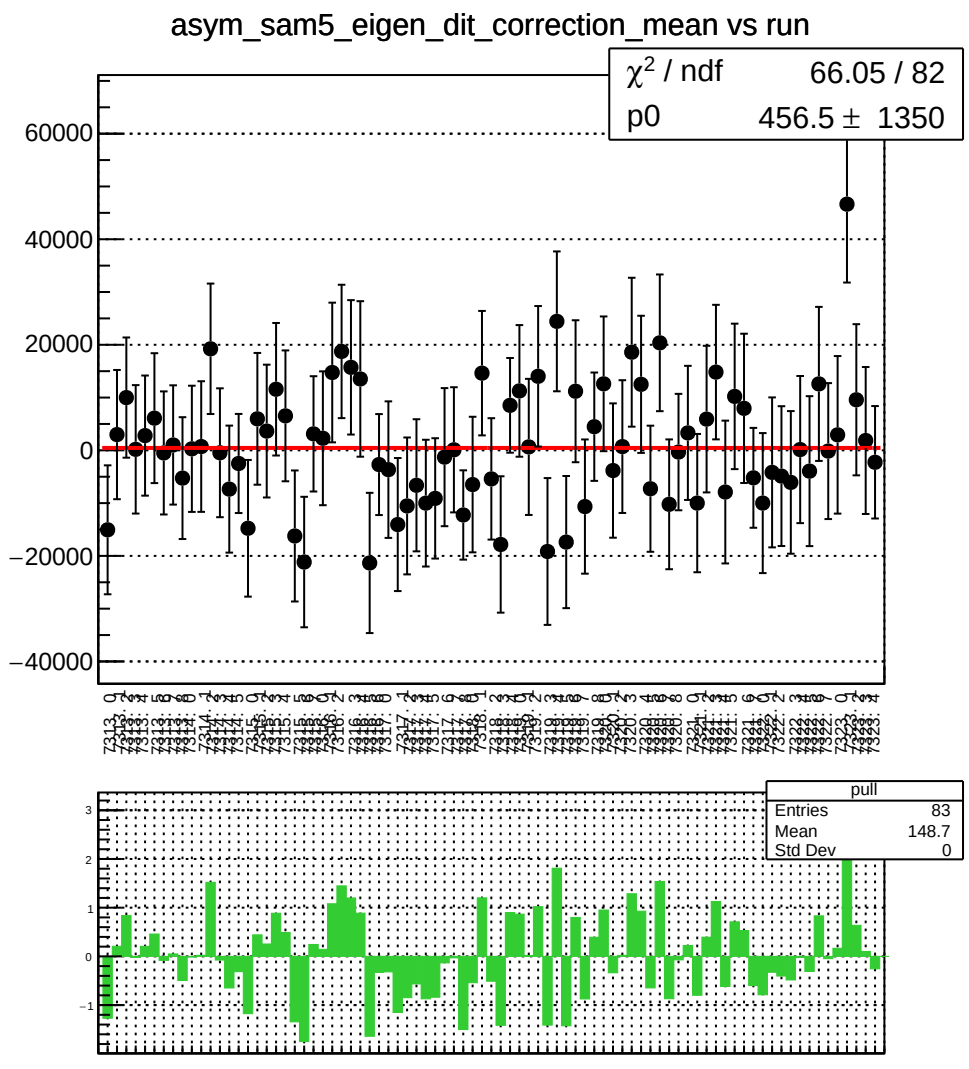

pull1D
Entries 83
Mean 0.02128
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

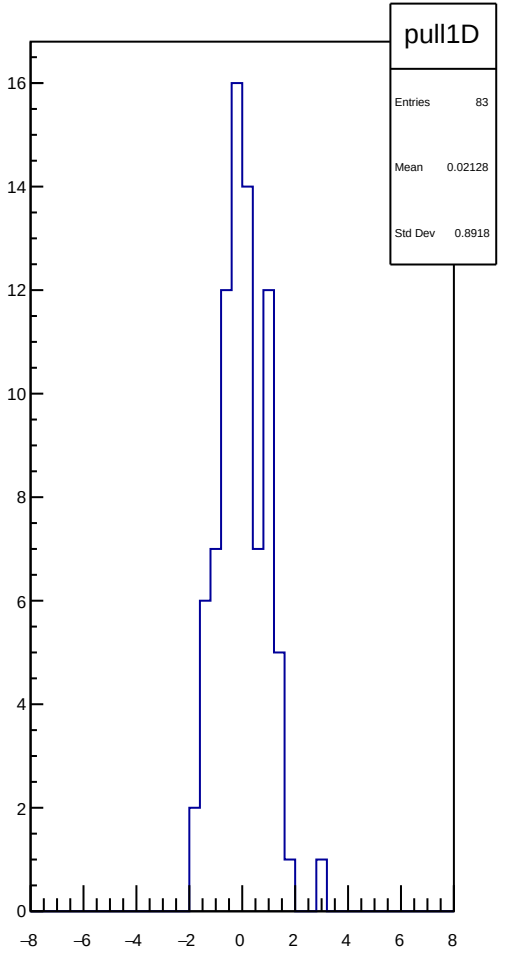

asym_sam5_dit_correction_rms vs run
χ² / ndf 6399 / 82
p0 1210 ± 0.9548
1450
1400
1350
1300
1250
1200
1150
1100
1050

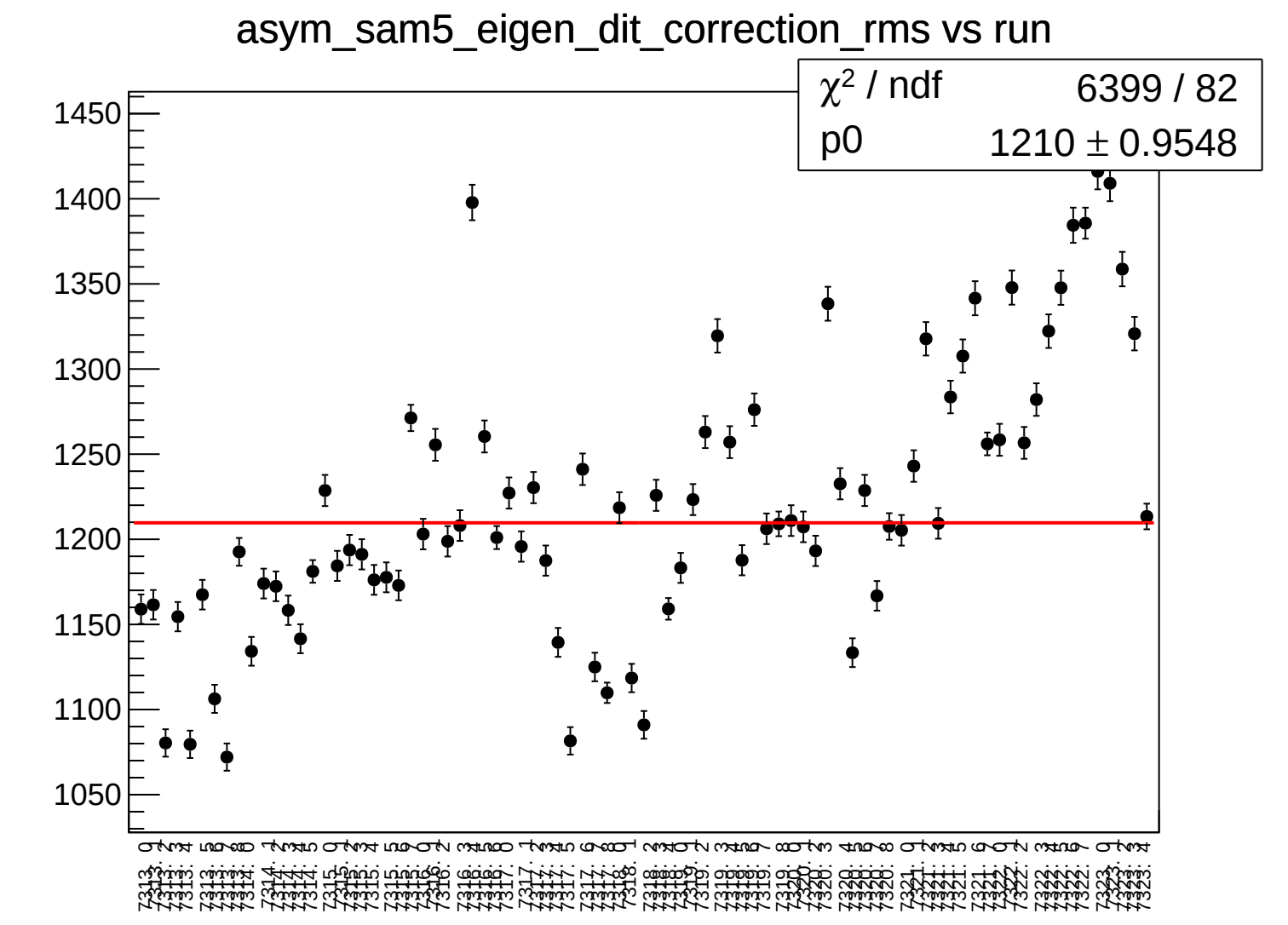

eigen_dit_asym_sam5_mean vs run
χ^2 / ndf 99.92 / 82
p0 421.8 ± 211.9
pull
Entries 83
Mean −357.9
Std Dev 0

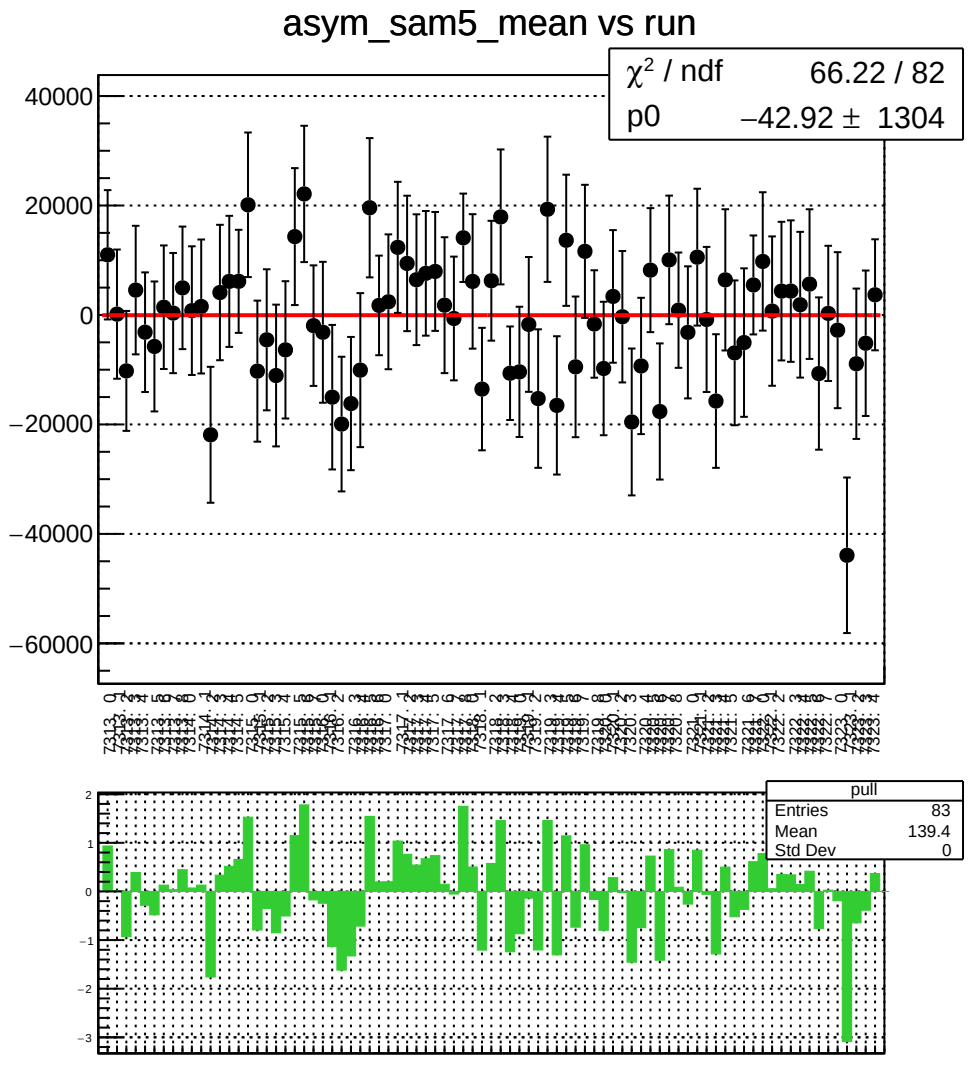

pull1D
Entries 83
Mean −0.003248
Std Dev 1.097

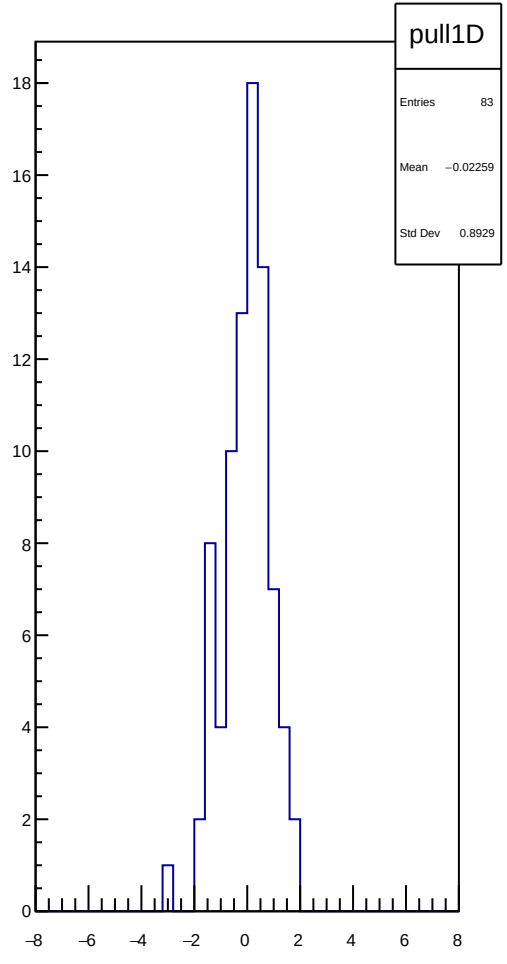

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 7235 / 82
p0 189.8 ± 0.1499
230
220
210
200
190
180

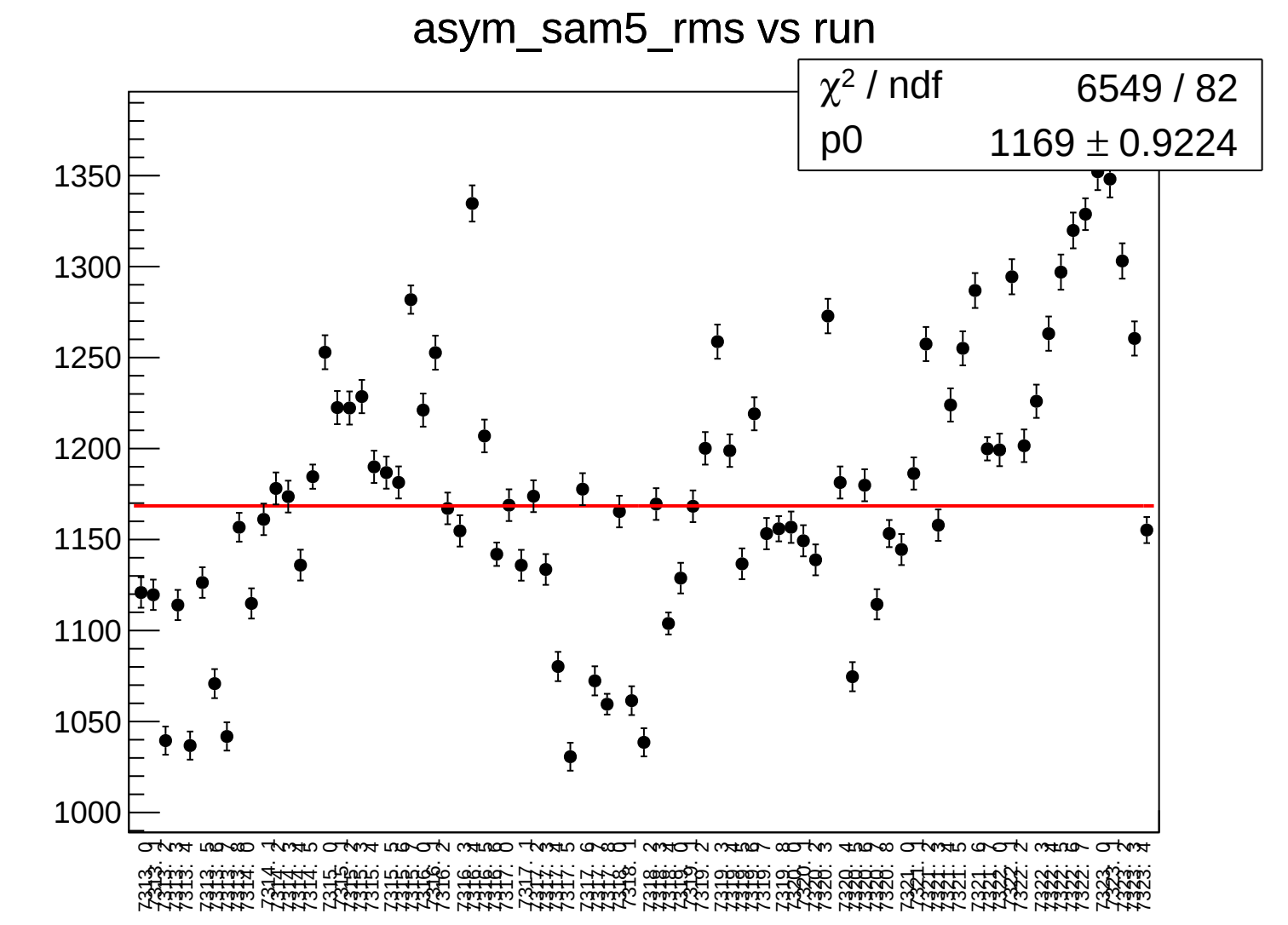

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 66.05 / 82
p0 456.5 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 148.7
Std Dev 0
3
2
1
0
−1

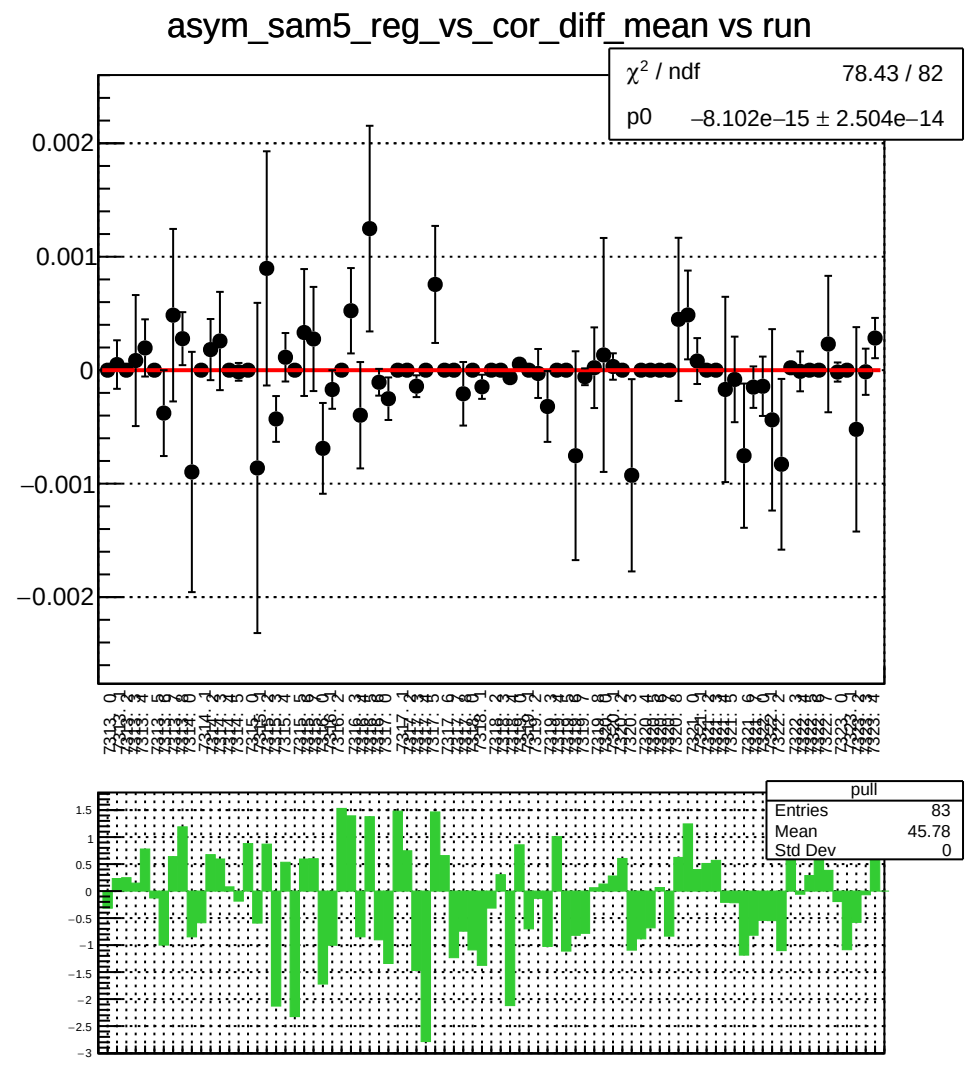

pull1D
Entries 83
Mean 0.02128
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

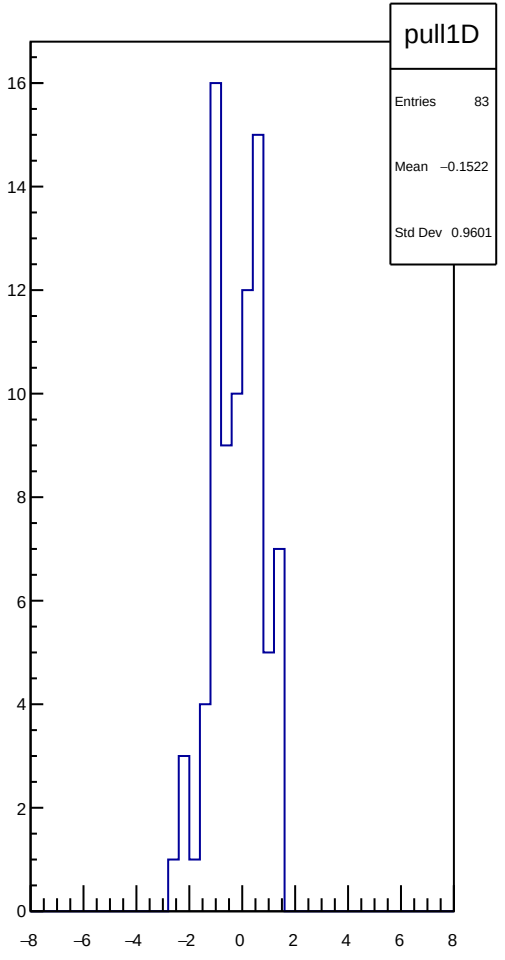

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6399 / 82
p0 1210 ± 0.9548
1450
1400
1350
1300
1250
1200
1150
1100
1050

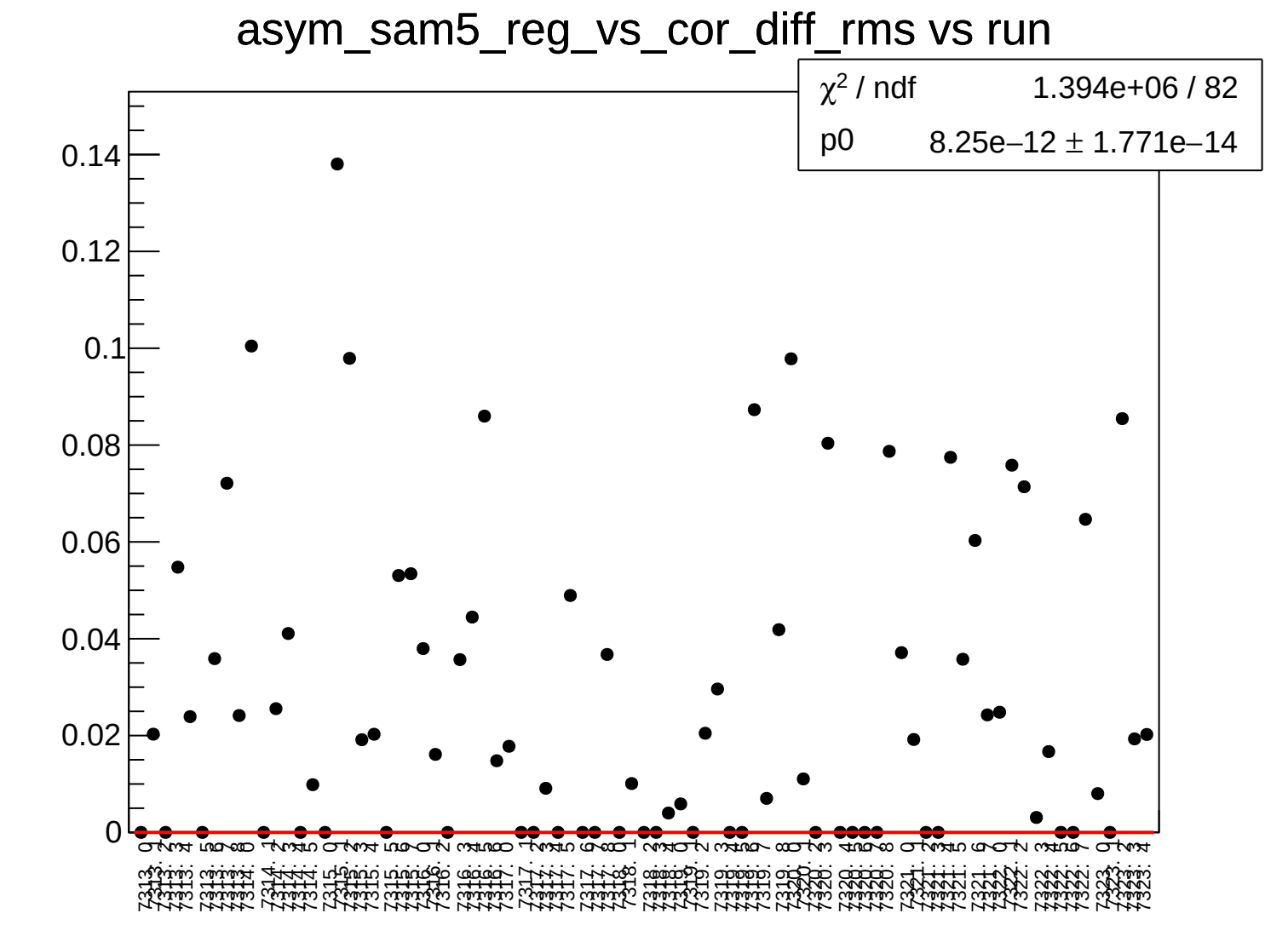

asym_sam5_mean vs run
χ² / ndf 66.22 / 82
p0 −42.92 ± 1304
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 139.4
Std Dev 0
2
1
0
−1
−2
−3

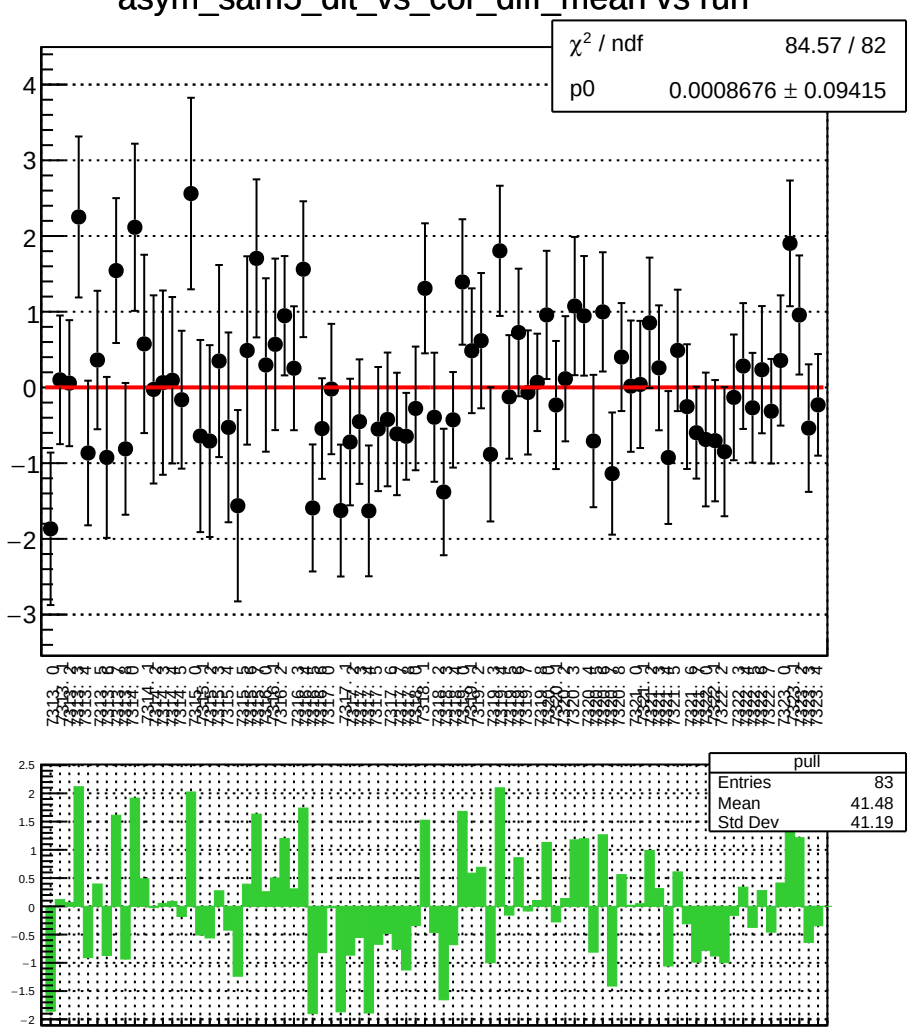

pull1D
Entries 83
Mean −0.02259
Std Dev 0.8929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

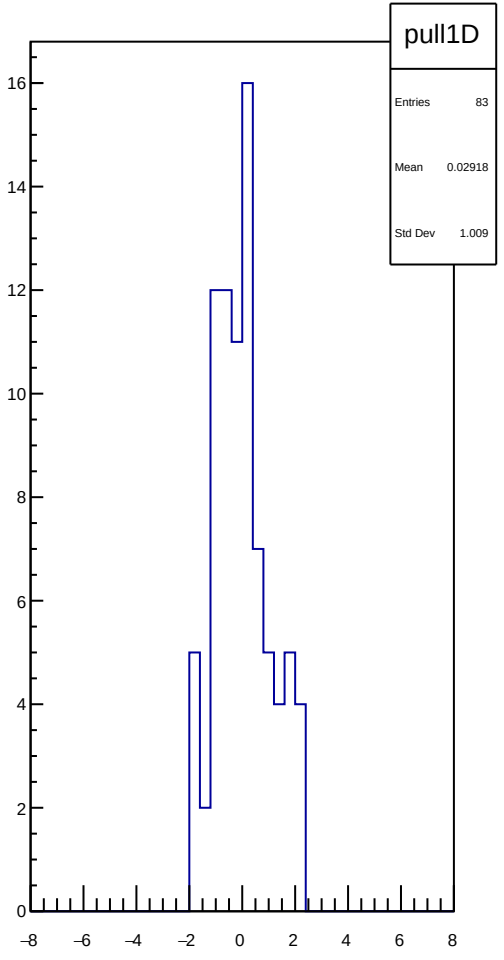

asym_sam5_rms vs run
χ² / ndf 6549 / 82
p0 1169 ± 0.9224
1350
1300
1250
1200
1150
1100
1050
1000

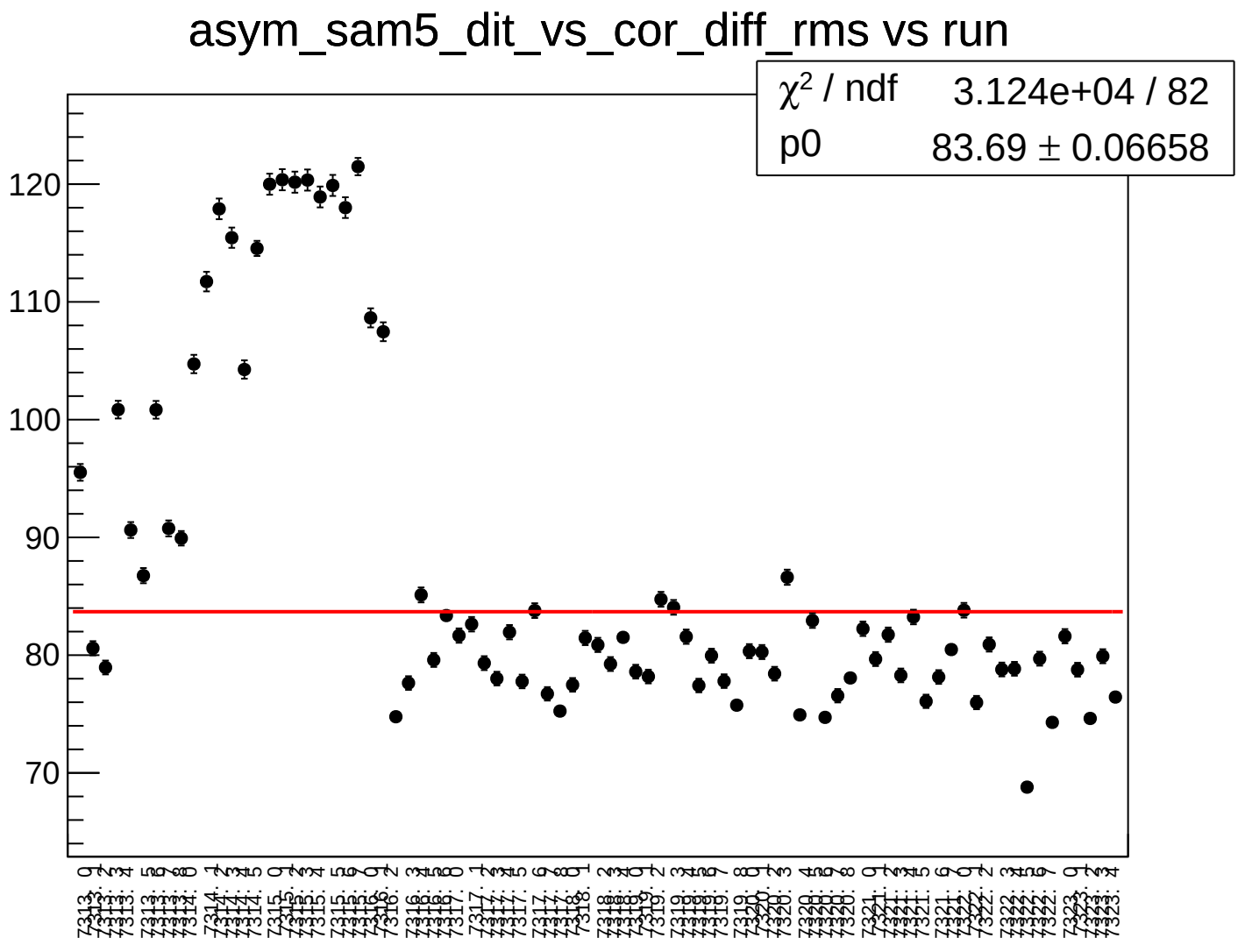

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 78.43 / 82
p0 −8.102e−15 ± 2.504e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 83
Mean 45.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

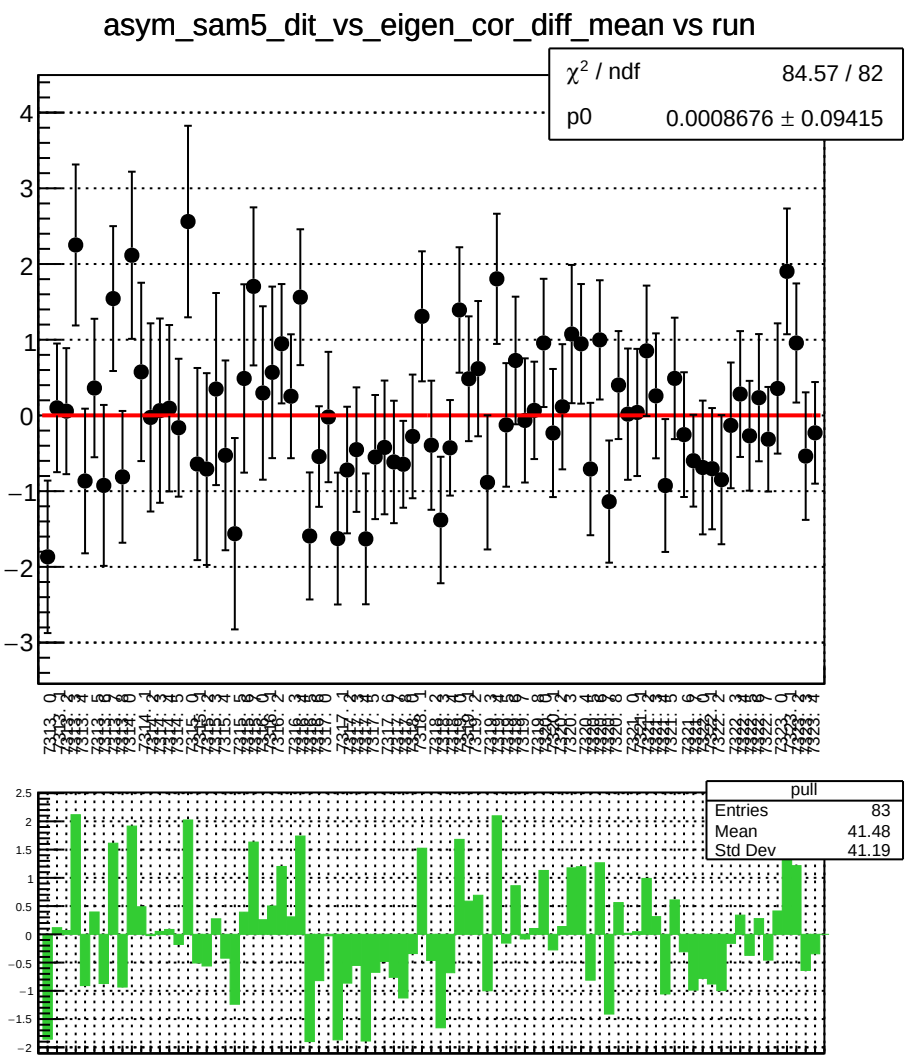

pull1D
Entries 83
Mean −0.1522
Std Dev 0.9601
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

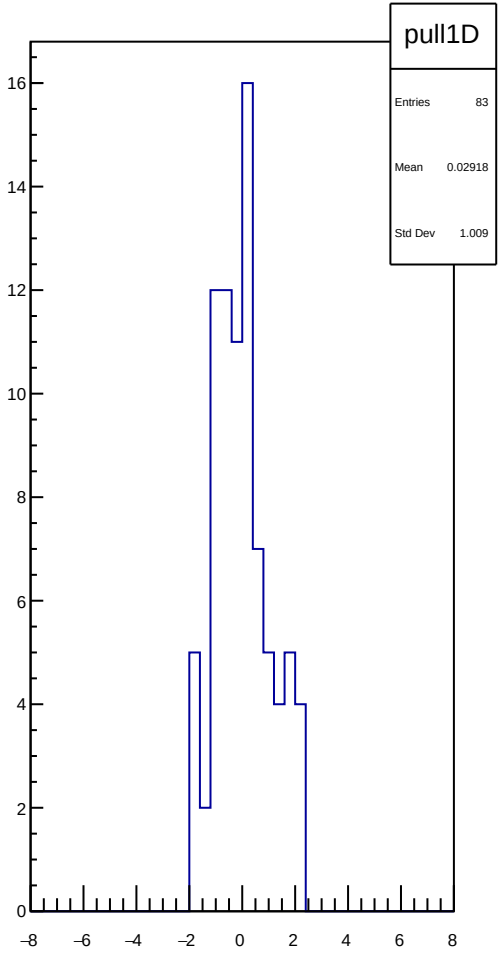

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.394e+06 / 82
p0 8.25e−12 ± 1.771e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

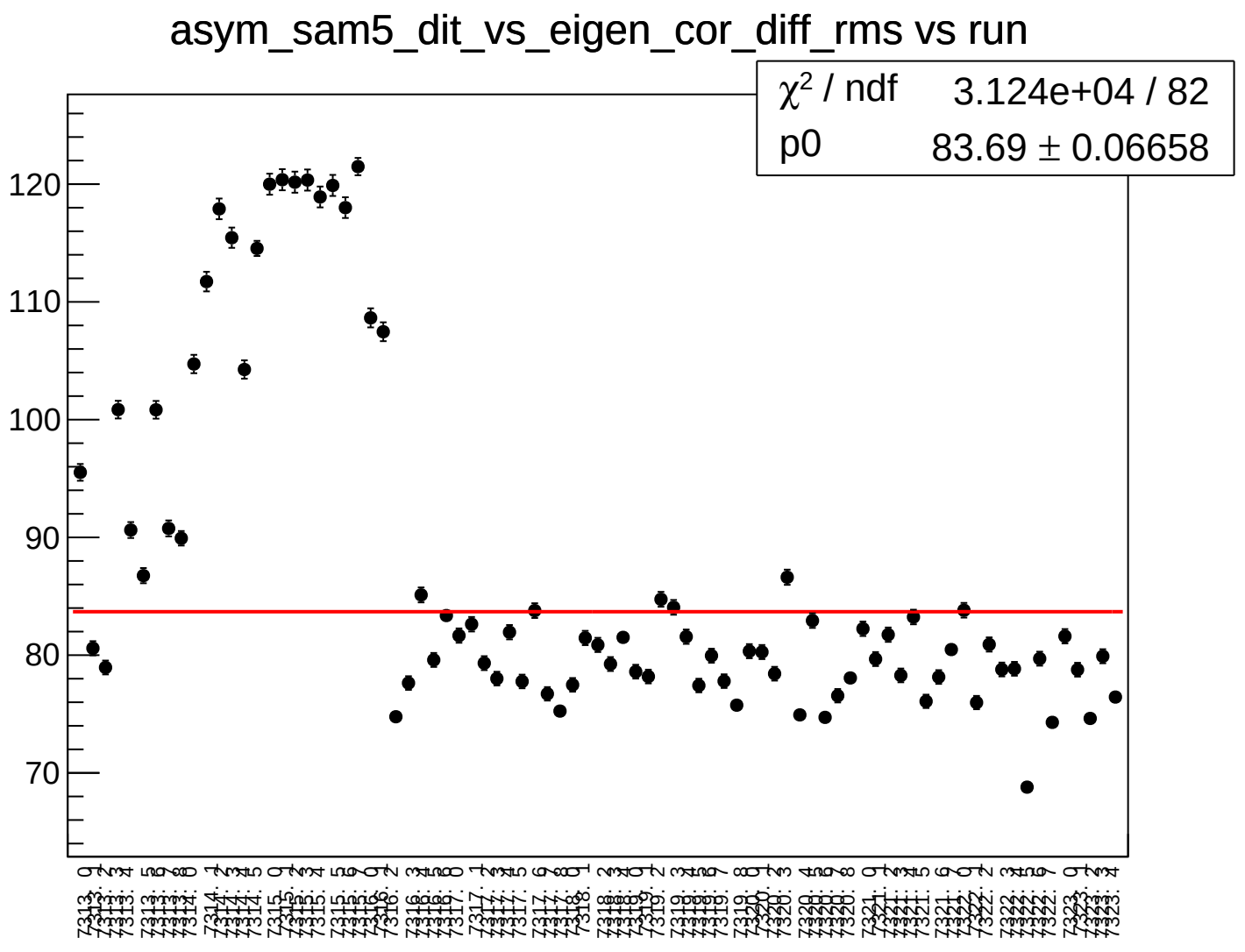

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 82
p0 0.0008676 ± 0.09415
pull
Entries 83
Mean 41.48
Std Dev 41.19

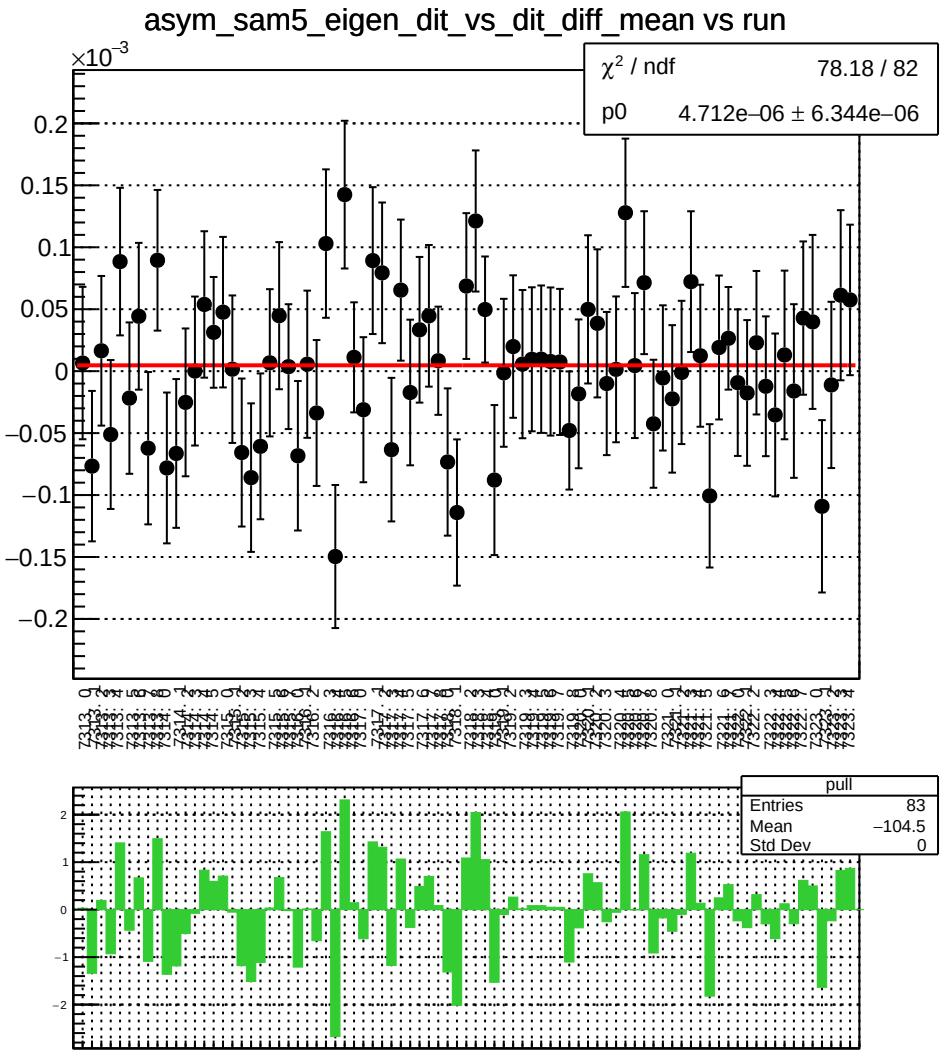

pull1D
Entries 83
Mean 0.02918
Std Dev 1.009

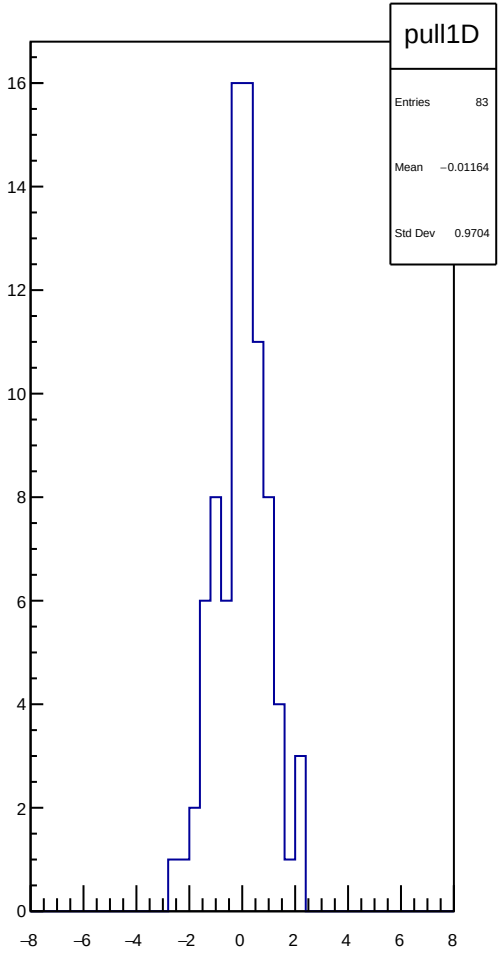

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3.124e+04 / 82
p0 83.69 ± 0.06658
120
110
100
90
80
70

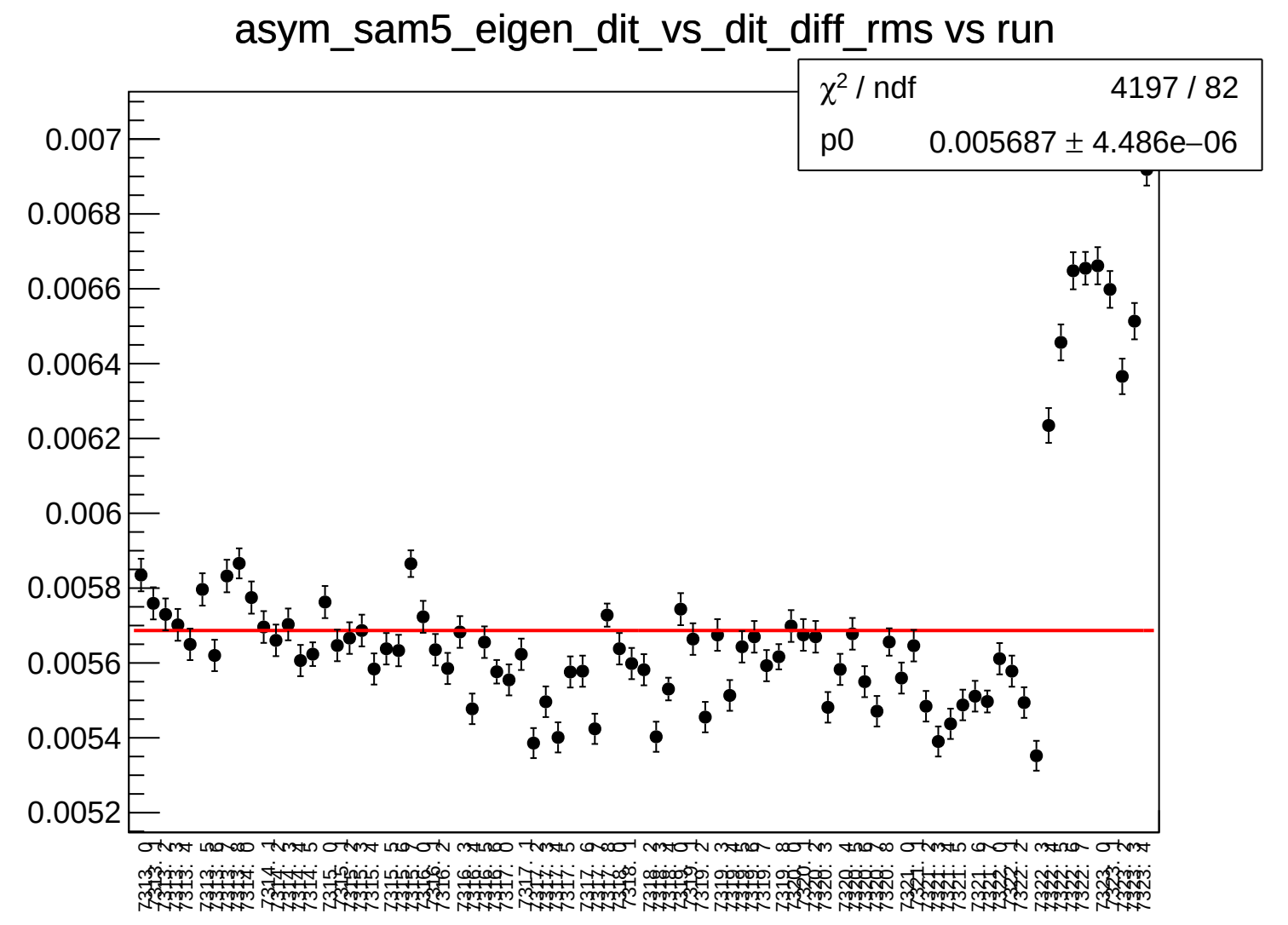

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.57 / 82
p0 0.0008676 ± 0.09415
pull
Entries 83
Mean 41.48
Std Dev 41.19

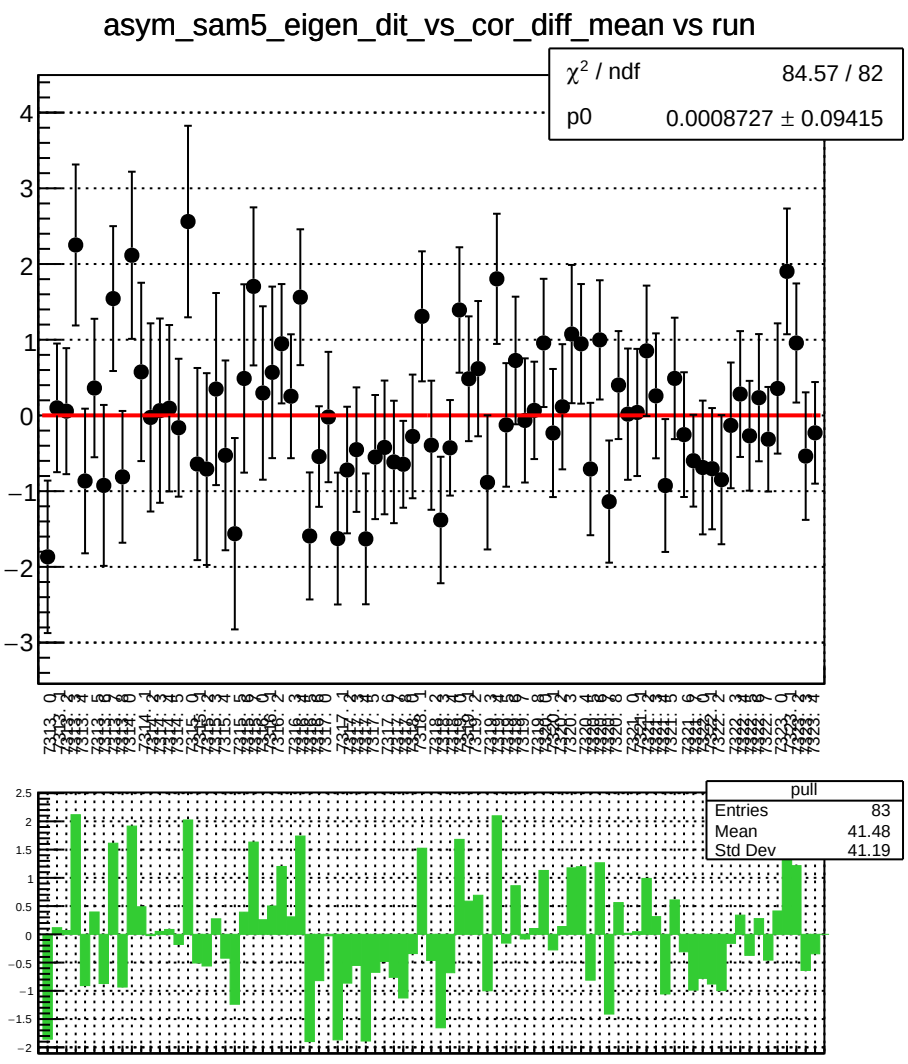

pull1D
Entries 83
Mean 0.02918
Std Dev 1.009

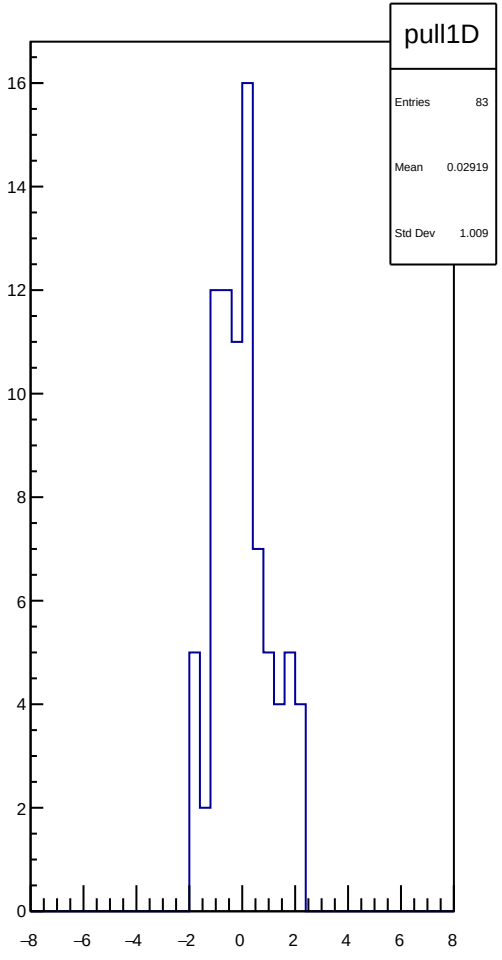

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.124e+04 / 82
p0 83.69 ± 0.06658
120
110
100
90
80
70

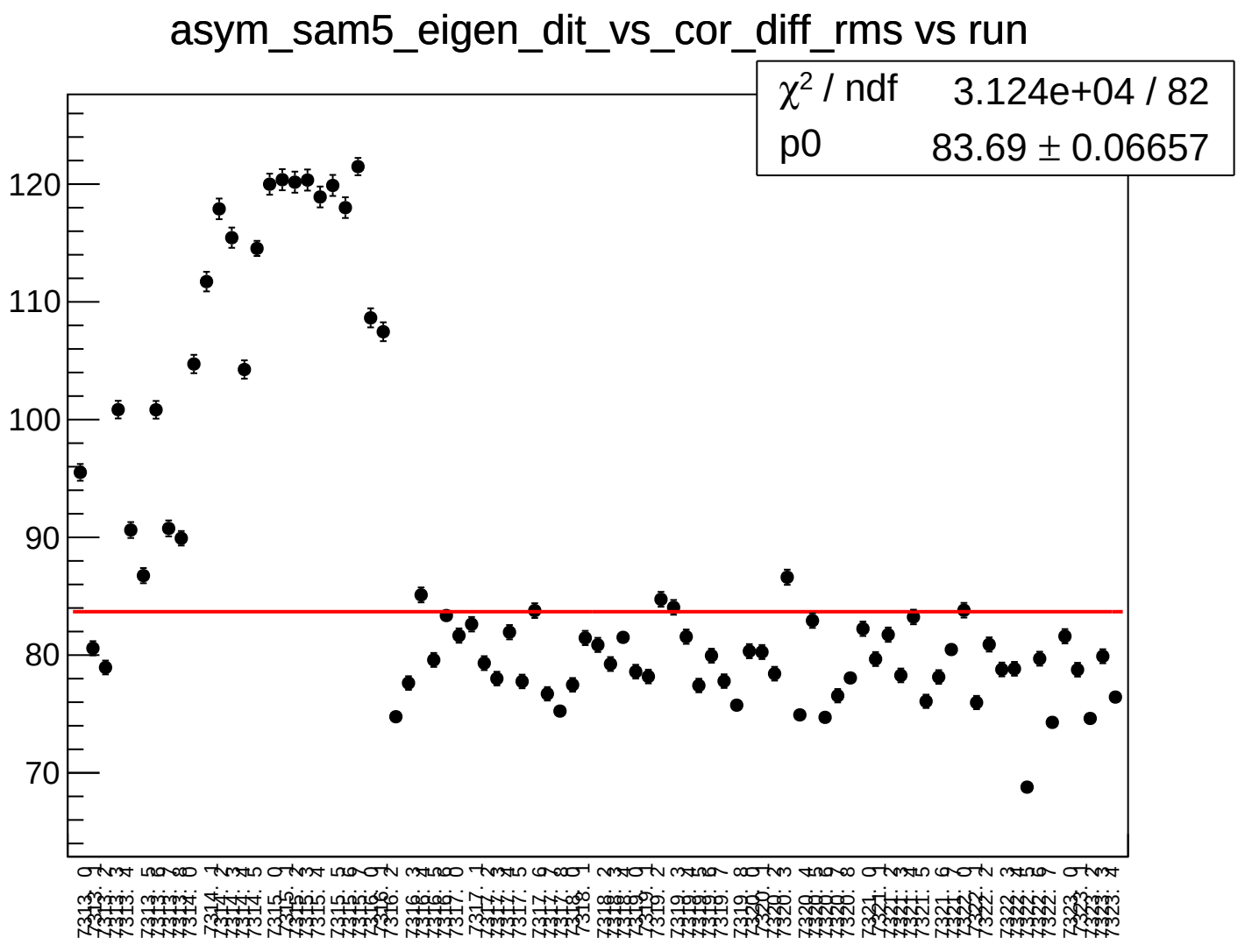

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.18 / 82
p0 4.712e−06 ± 6.344e−06
pull
Entries 83
Mean −104.5
Std Dev 0

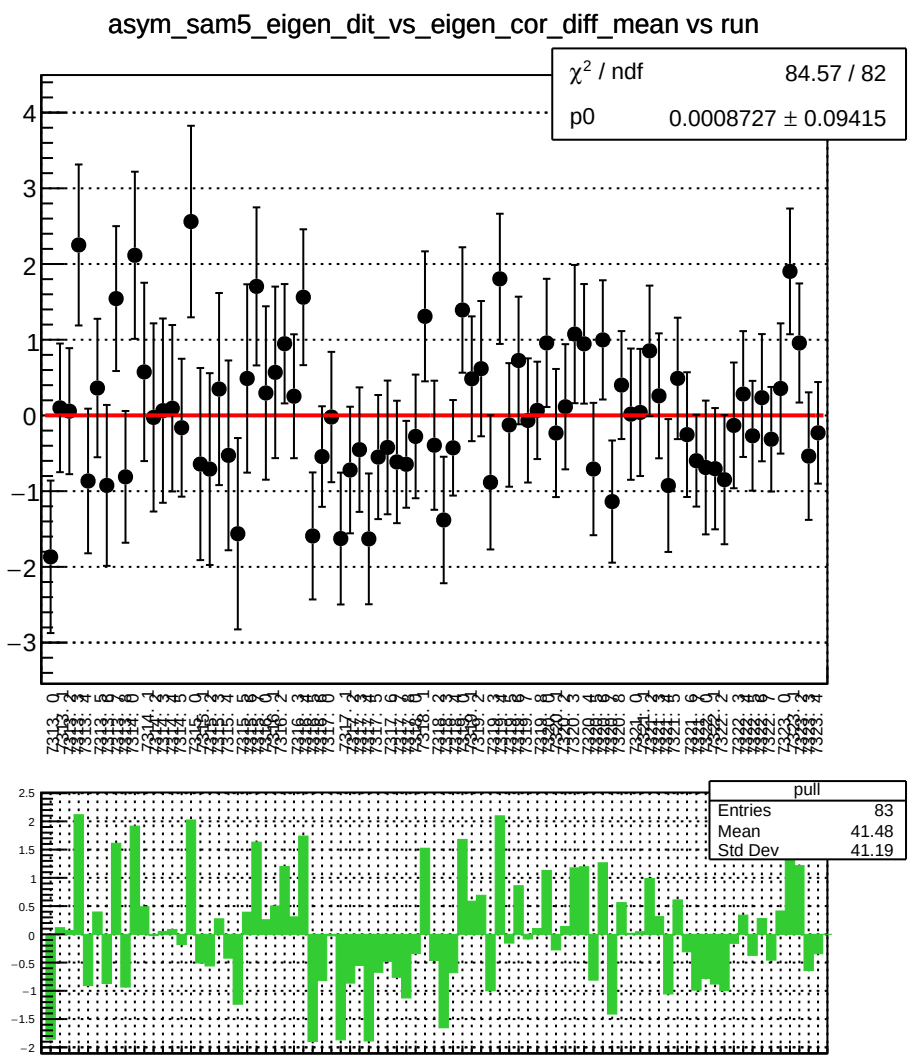

pull1D
Entries 83
Mean −0.01164
Std Dev 0.9704

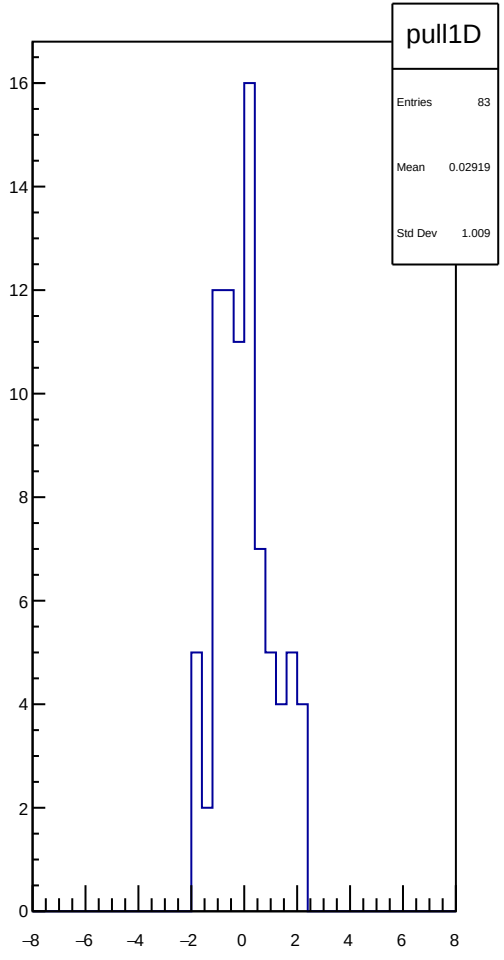

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4197 / 82
p0 0.005687 ± 4.486e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

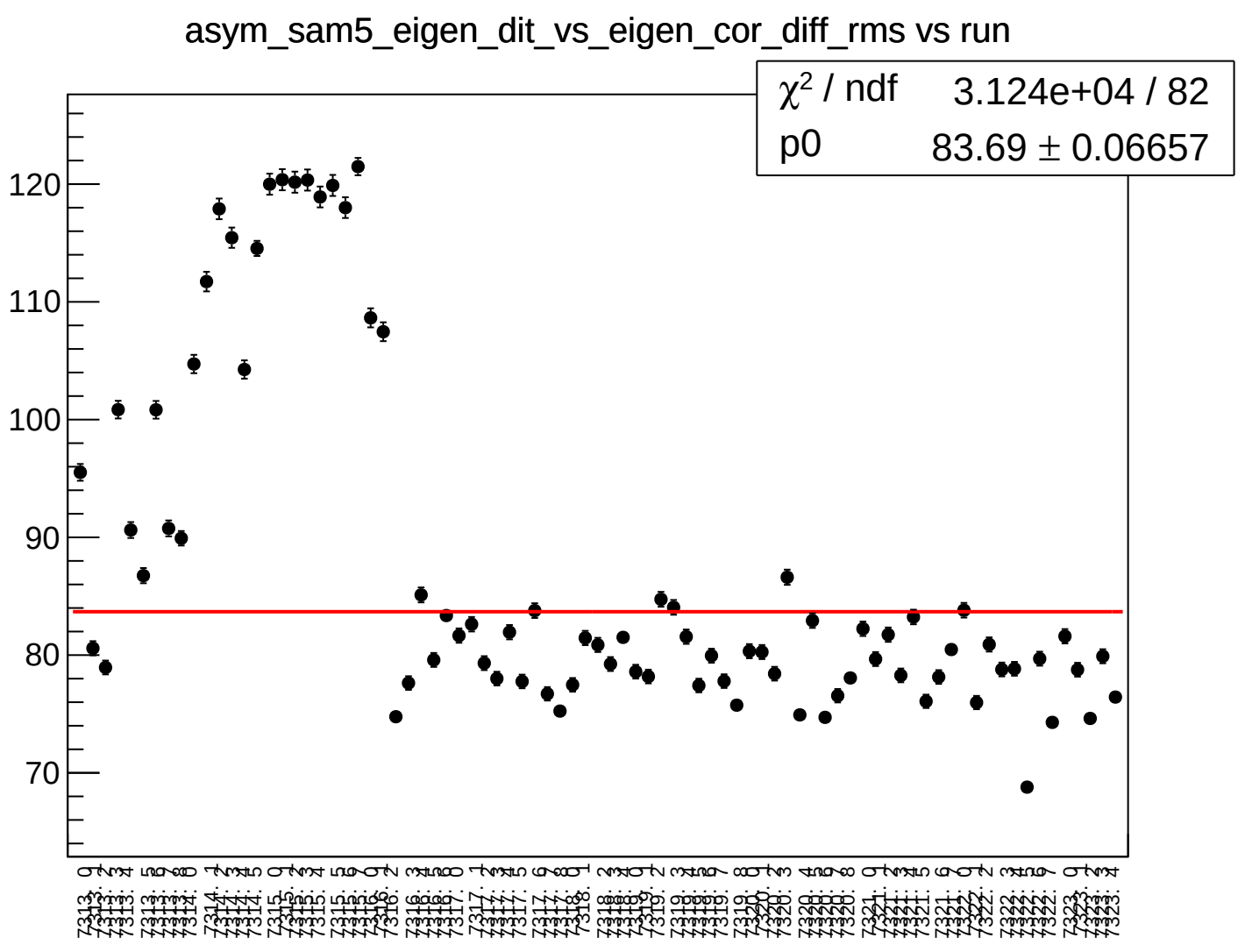

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 82
p0 0.0008727 ± 0.09415
pull
Entries 83
Mean 41.48
Std Dev 41.19

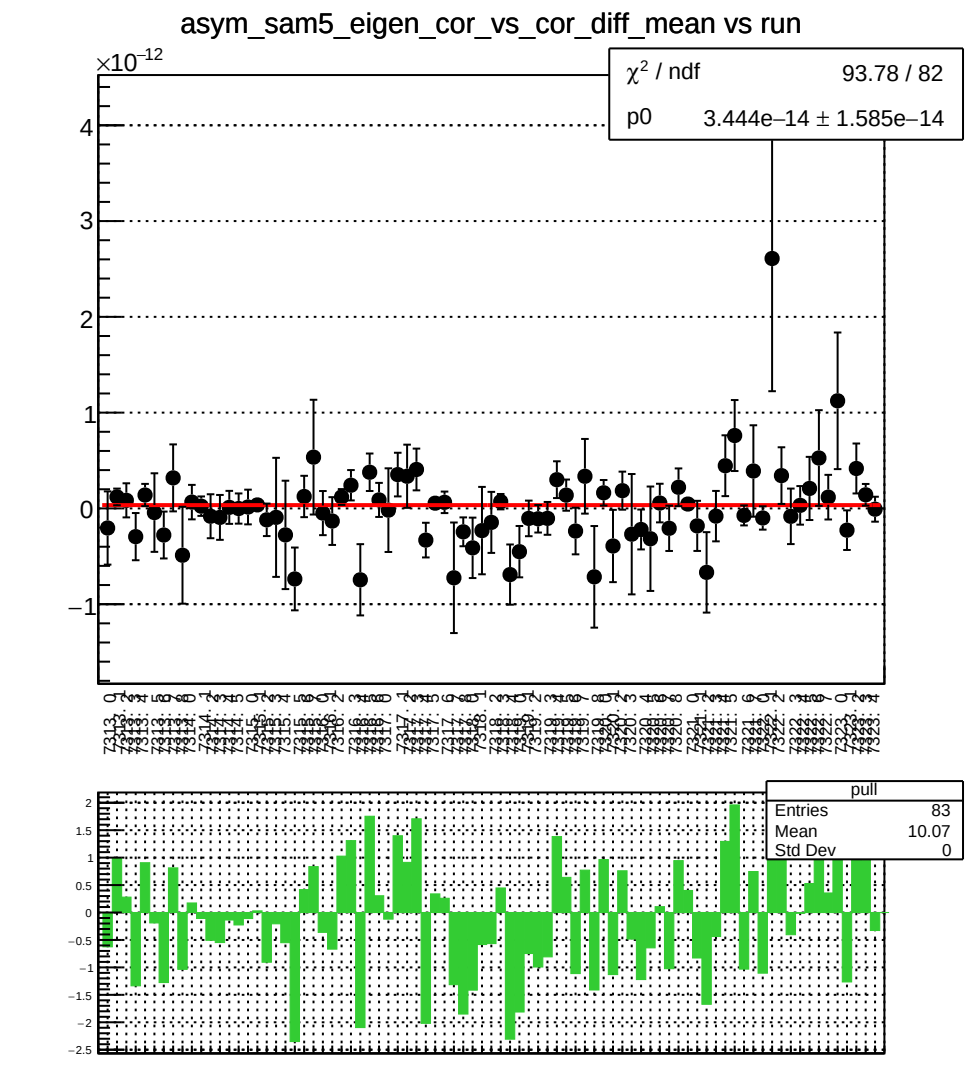

pull1D
Entries 83
Mean 0.02919
Std Dev 1.009

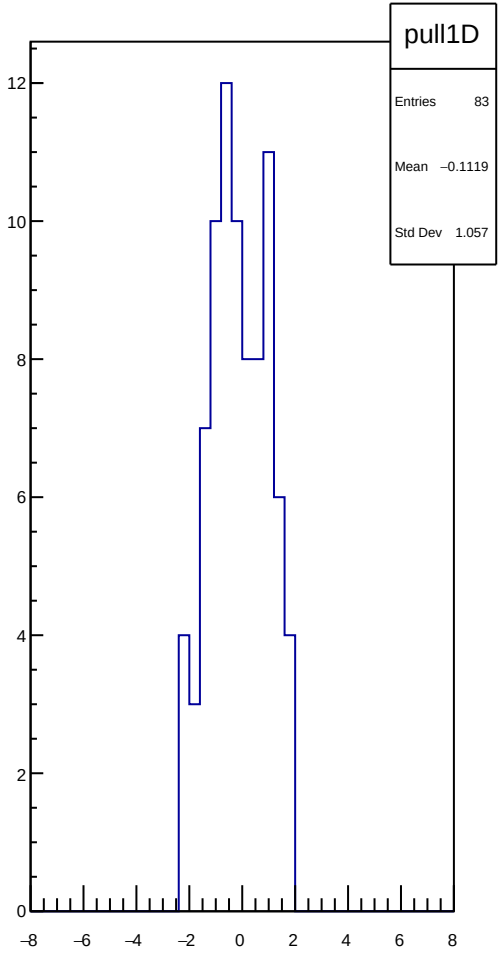

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.124e+04 / 82
p0 83.69 ± 0.06657
120
110
100
90
80
70

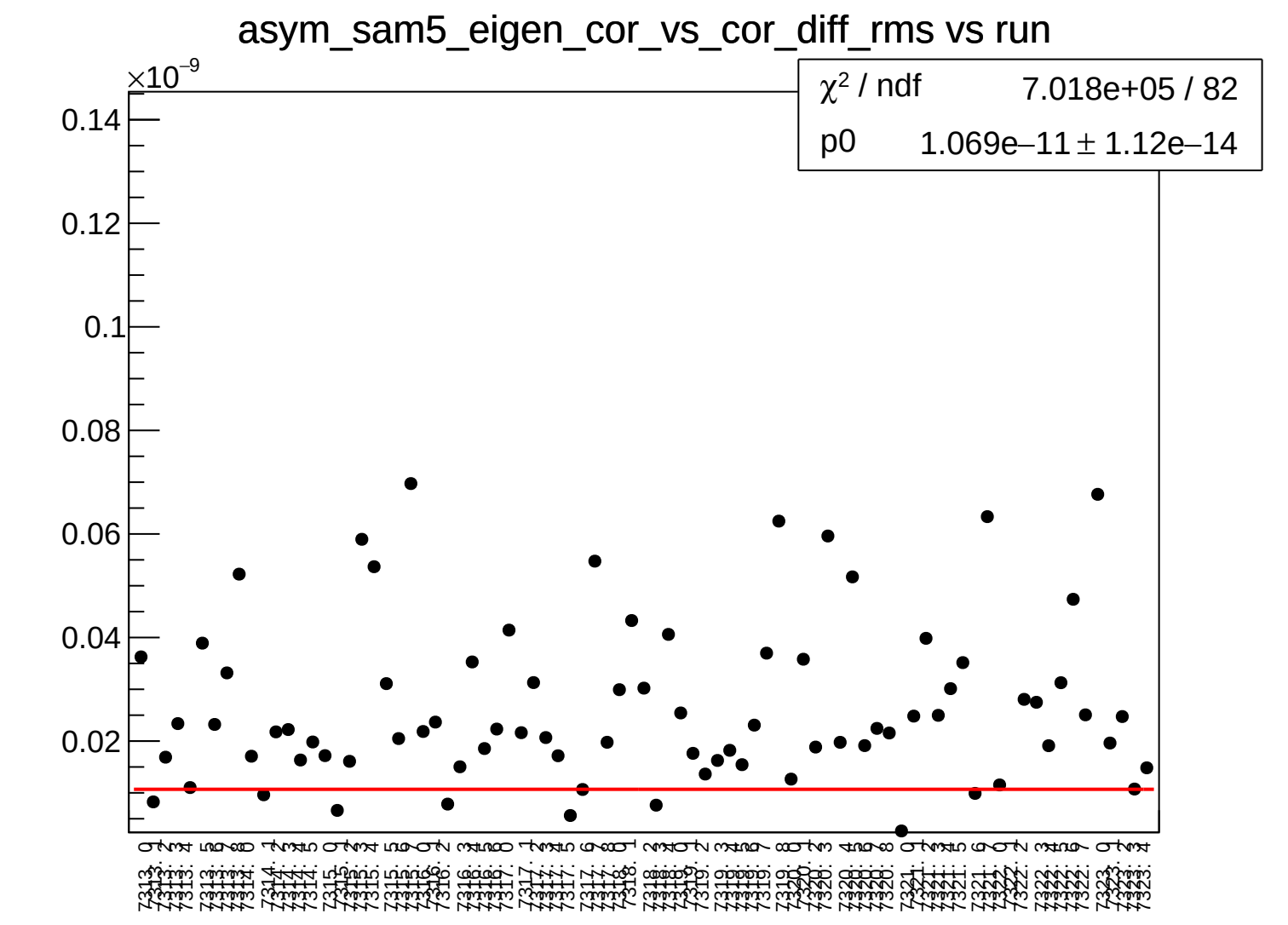

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.57 / 82
p0 0.0008727 ± 0.09415
pull
Entries 83
Mean 41.48
Std Dev 41.19

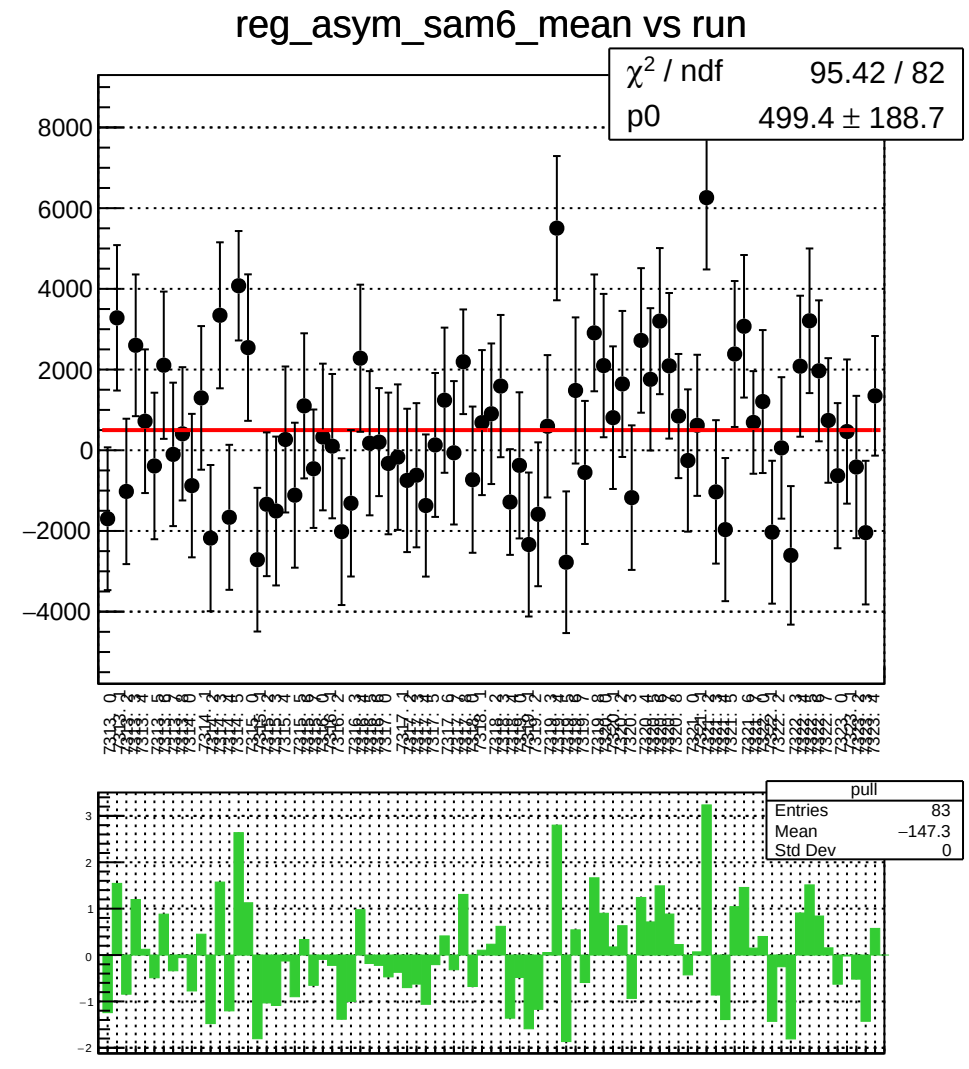

pull1D
Entries 83
Mean 0.02919
Std Dev 1.009

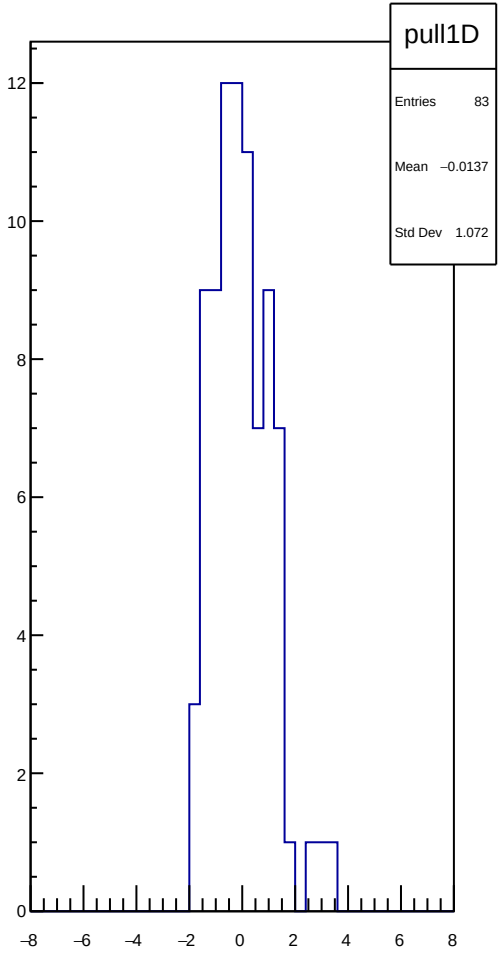

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.124e+04 / 82
p0 83.69 ± 0.06657
120
110
100
90
80
70

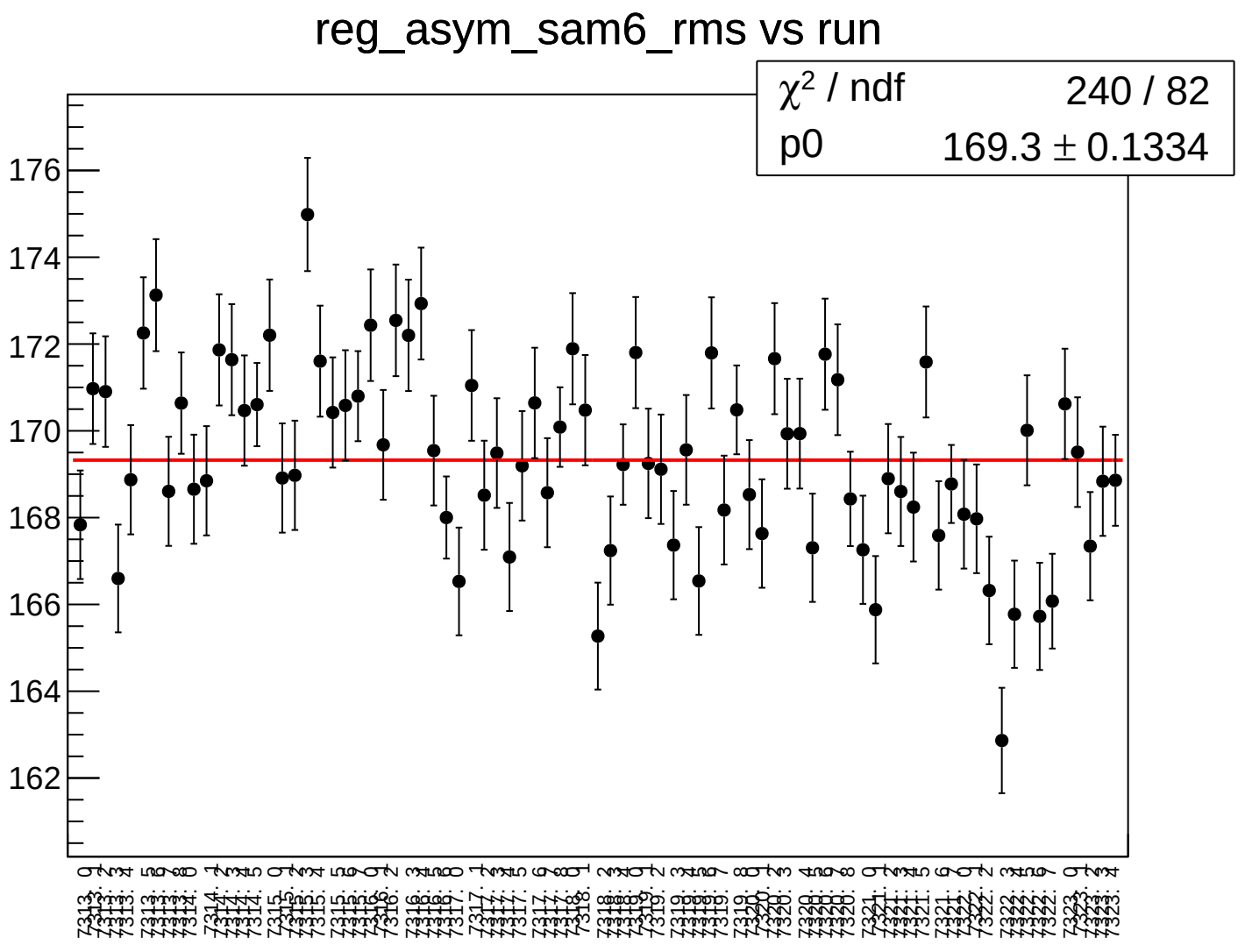

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.78 / 82
p0 3.444e−14 ± 1.585e−14
pull
Entries 83
Mean 10.07
Std Dev 0

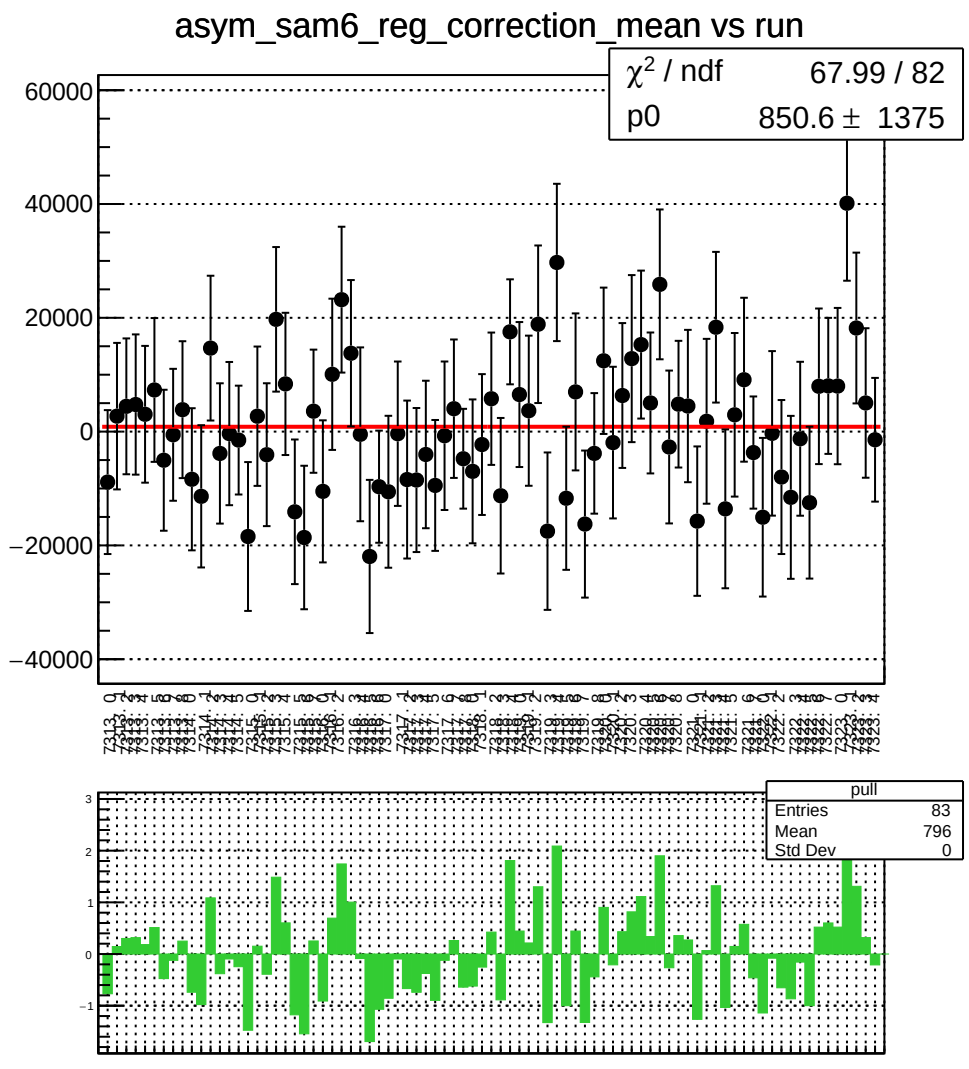

pull1D
Entries 83
Mean −0.1119
Std Dev 1.057

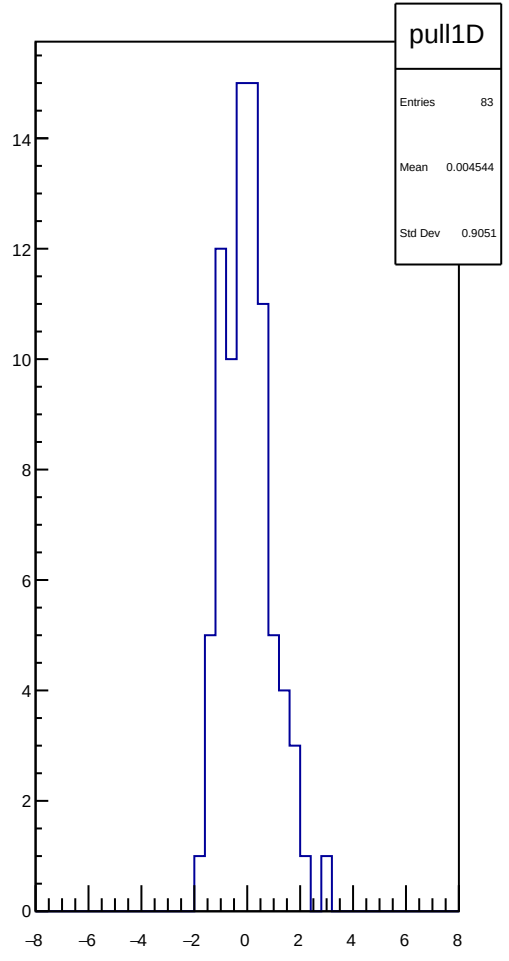

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.018e+05 / 82
p0 1.069e−11 ± 1.12e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

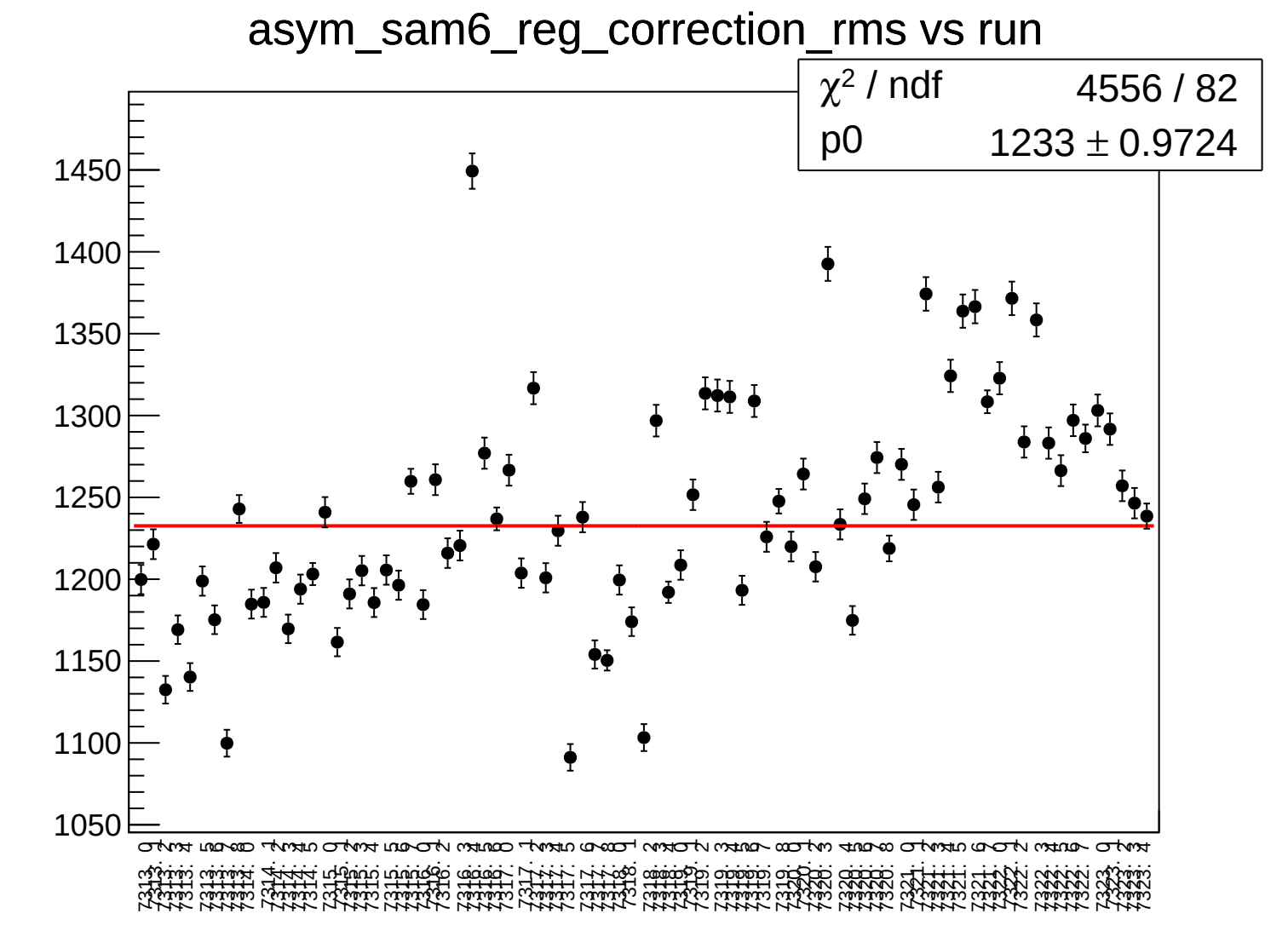

reg_asym_sam6_mean vs run
χ^2 / ndf 95.42 / 82
p0 499.4 ± 188.7
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −147.3
Std Dev 0
3
2
1
0
−1
−2

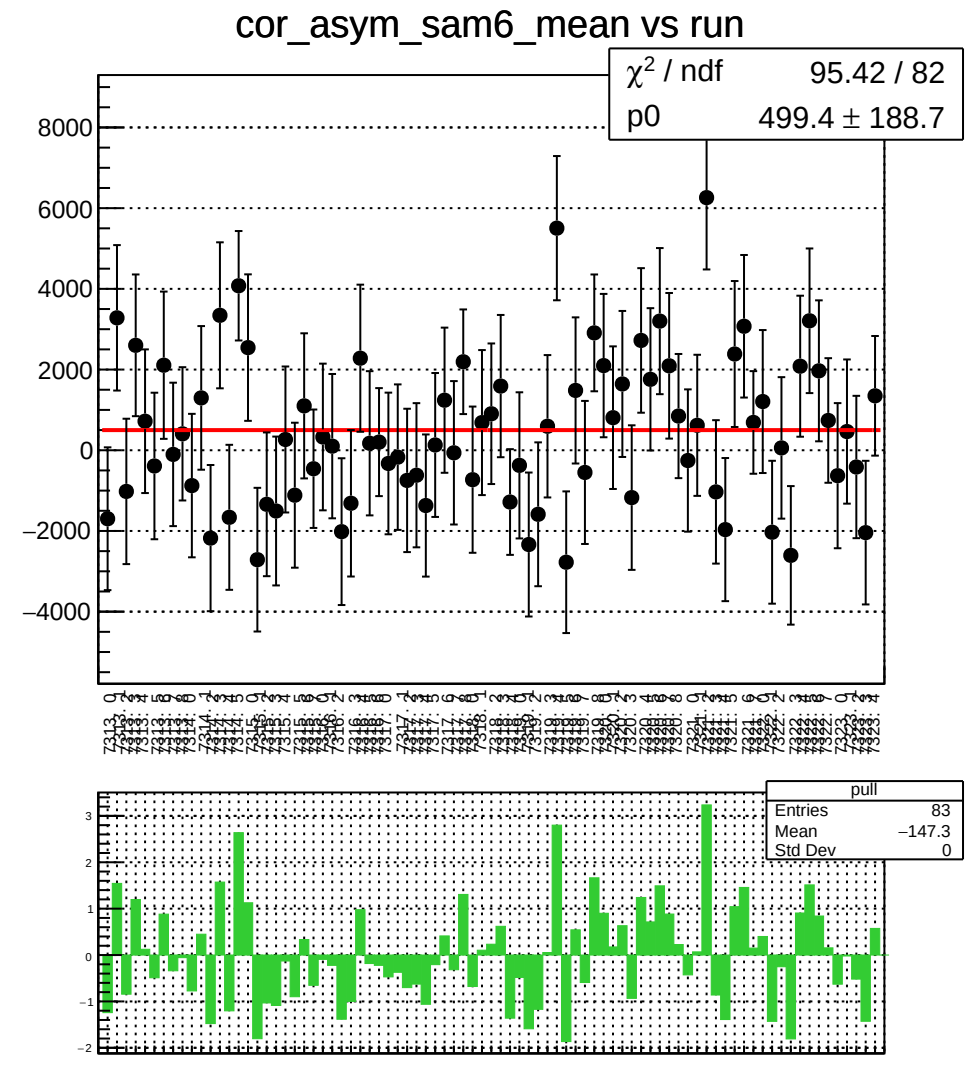

pull1D
Entries 83
Mean −0.0137
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

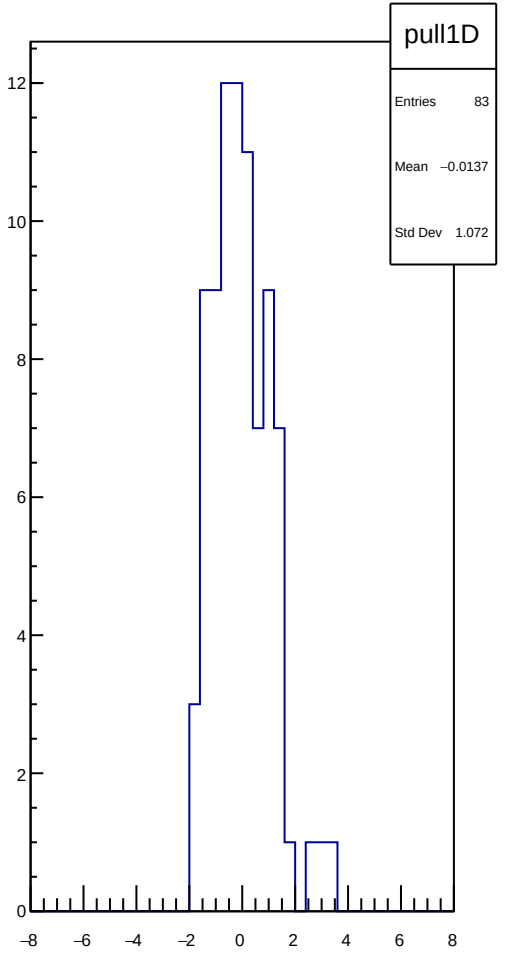

reg_asym_sam6_rms vs run
χ² / ndf 240 / 82
p0 169.3 ± 0.1334
176
174
172
170
168
166
164
162

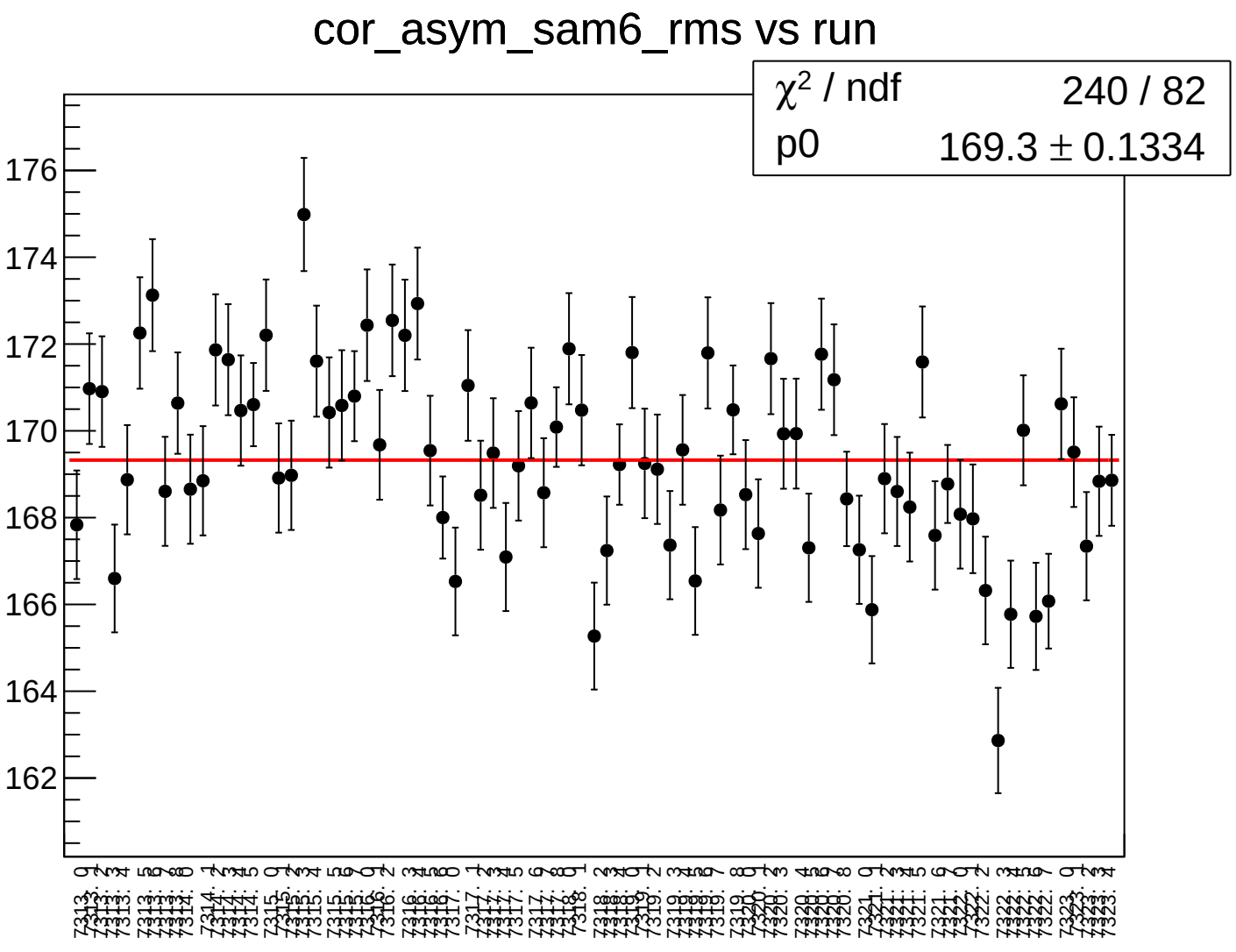

asym_sam6_reg_correction_mean vs run
χ² / ndf 67.99 / 82
p0 850.6 ± 1375
pull
Entries 83
Mean 796
Std Dev 0

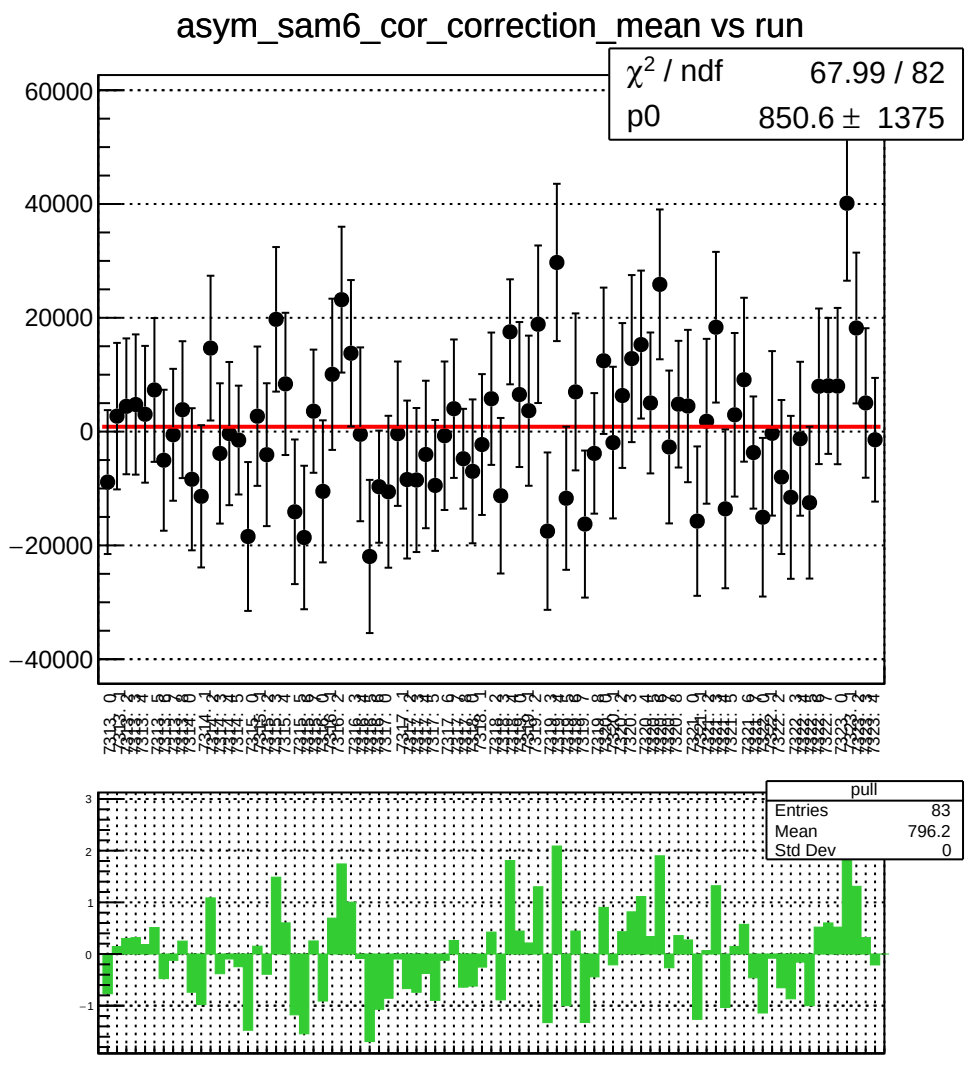

pull1D
Entries 83
Mean 0.004544
Std Dev 0.9051

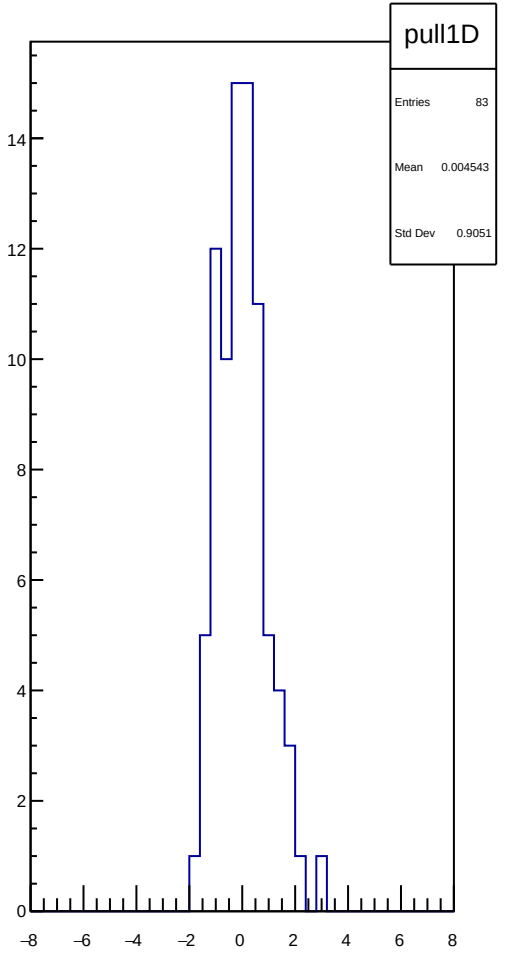

asym_sam6_reg_correction_rms vs run
χ² / ndf 4556 / 82
p0 1233 ± 0.9724
1450
1400
1350
1300
1250
1200
1150
1100
1050

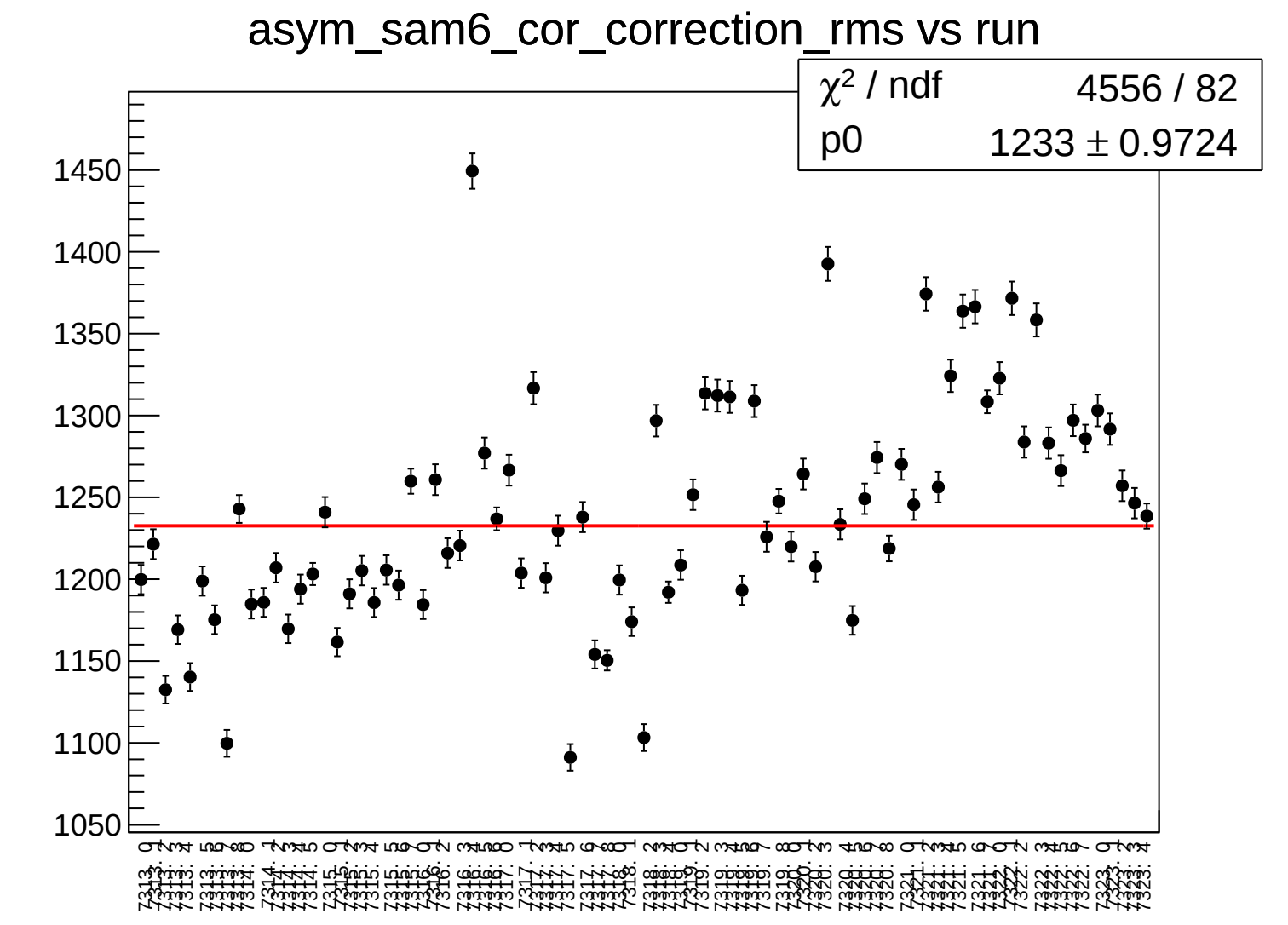

cor_asym_sam6_mean vs run
χ^2 / ndf 95.42 / 82
p0 499.4 ± 188.7
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −147.3
Std Dev 0
3
2
1
0
−1
−2

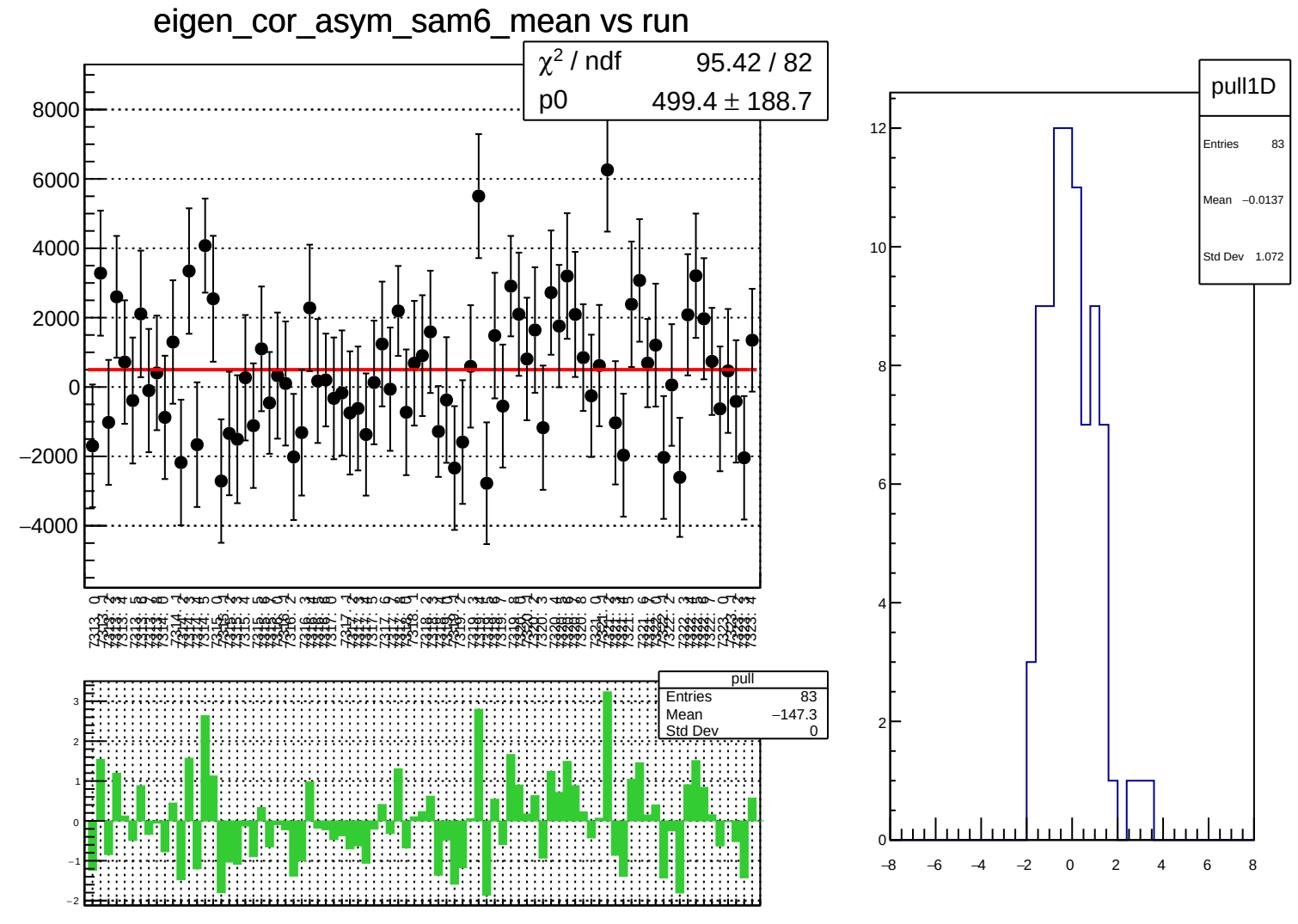

pull1D
Entries 83
Mean −0.0137
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

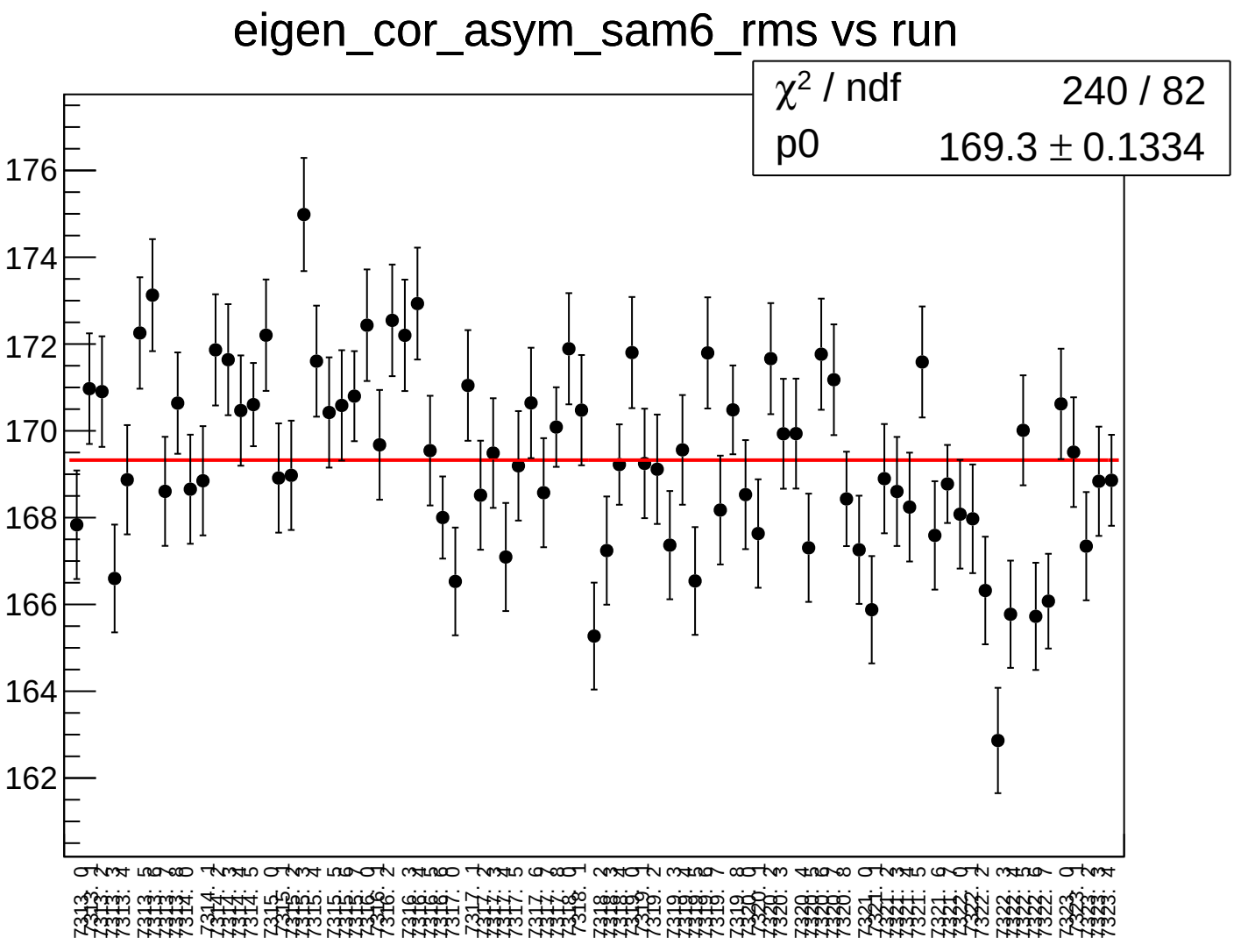

cor_asym_sam6_rms vs run
χ² / ndf 240 / 82
p0 169.3 ± 0.1334
176
174
172
170
168
166
164
162

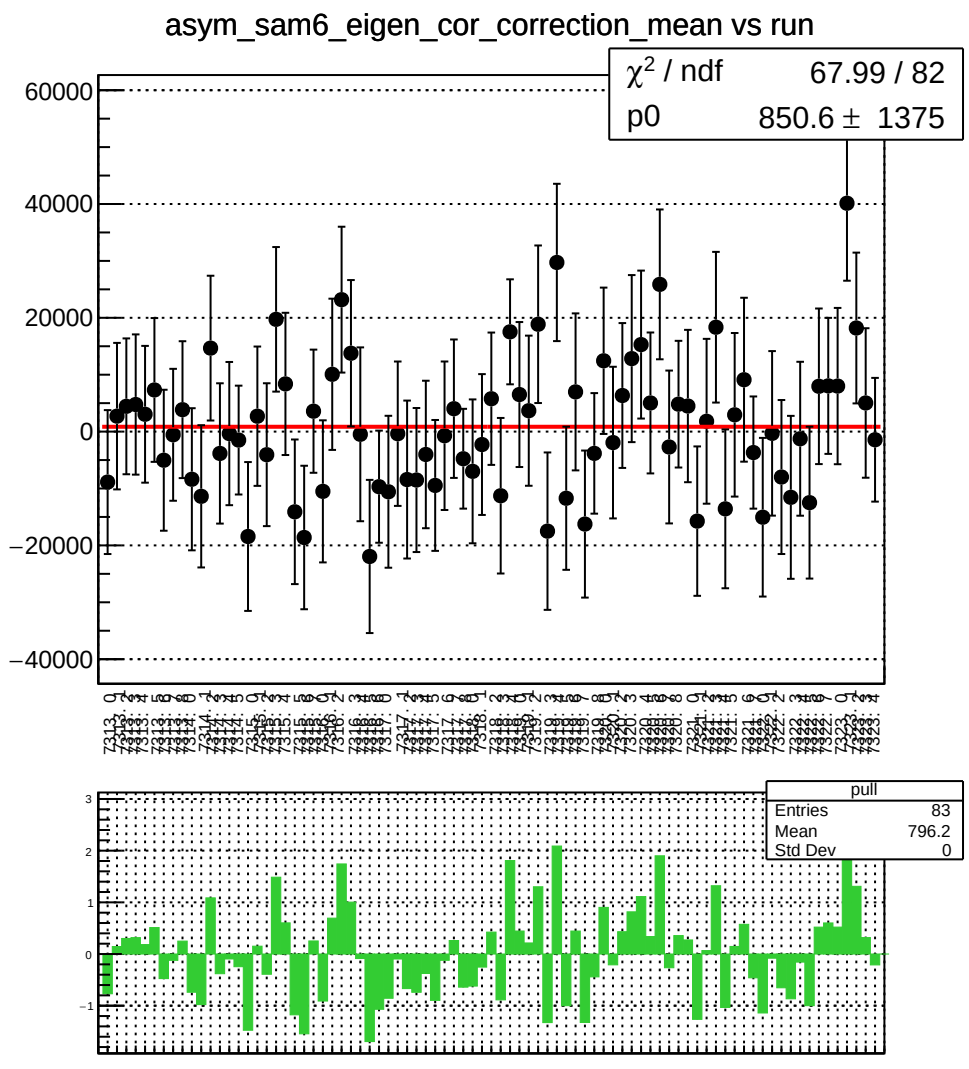

asym_sam6_cor_correction_mean vs run
χ² / ndf 67.99 / 82
p0 850.6 ± 1375
pull
Entries 83
Mean 796.2
Std Dev 0

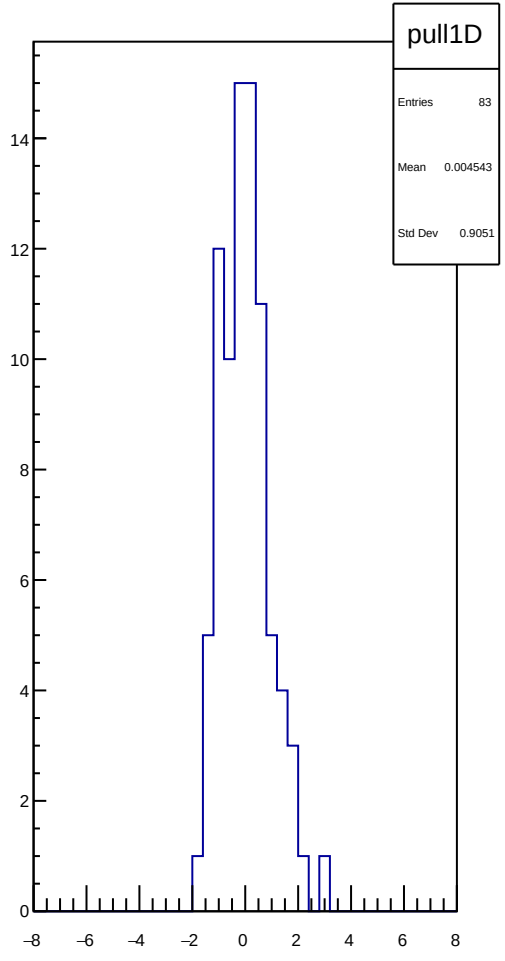

pull1D
Entries 83
Mean 0.004543
Std Dev 0.9051

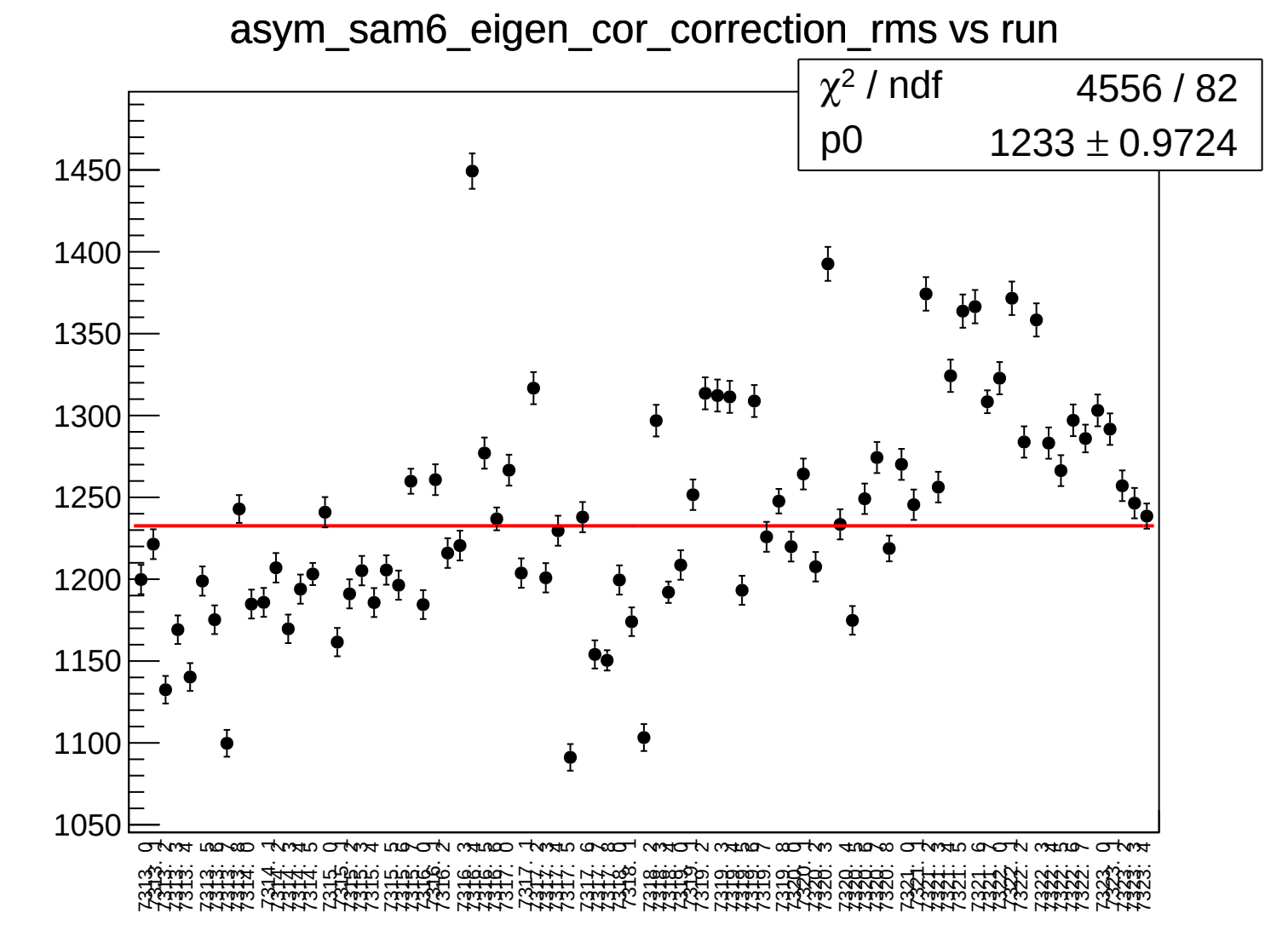

asym_sam6_cor_correction_rms vs run
χ² / ndf 4556 / 82
p0 1233 ± 0.9724
1450
1400
1350
1300
1250
1200
1150
1100
1050

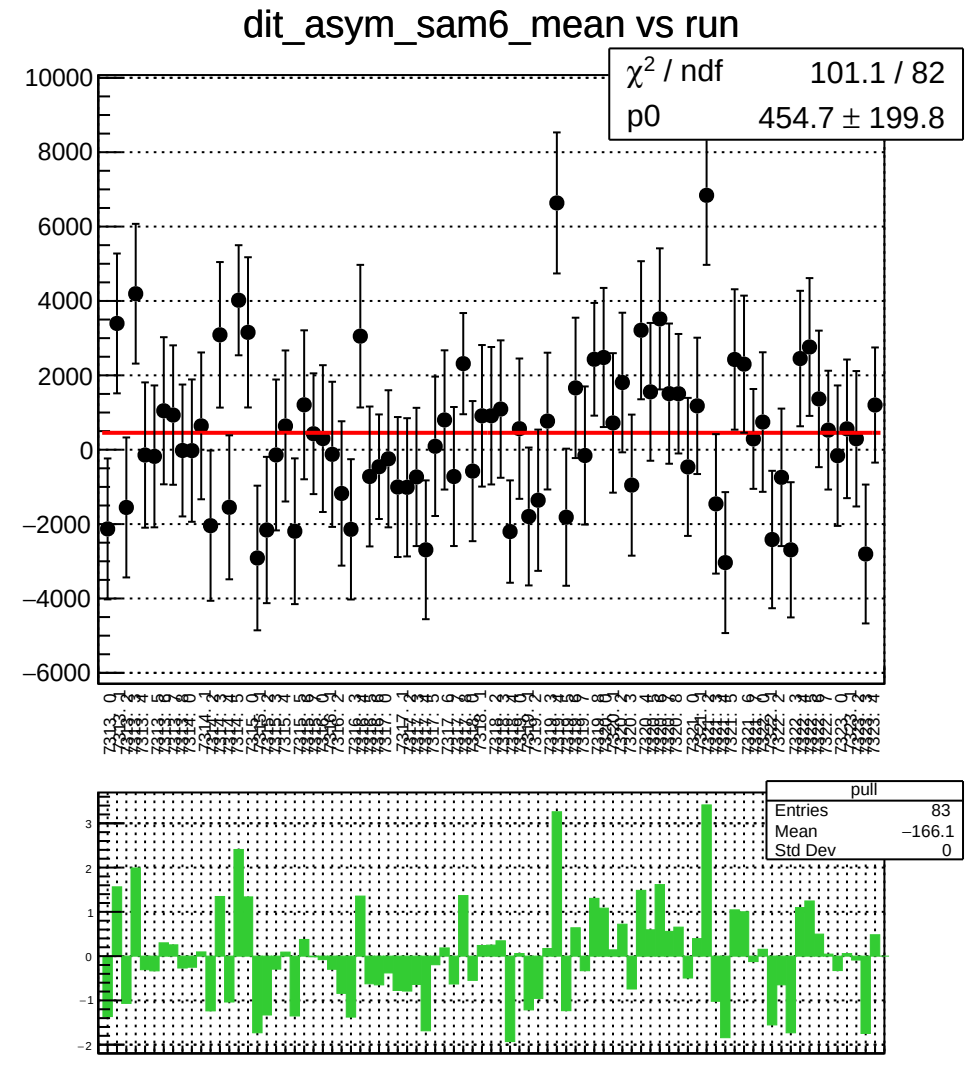

eigen_cor_asym_sam6_mean vs run
χ² / ndf 95.42 / 82
p0 499.4 ± 188.7
pull
Entries 83
Mean −147.3
Std Dev 0
pull1D
Entries 83
Mean −0.0137
Std Dev 1.072

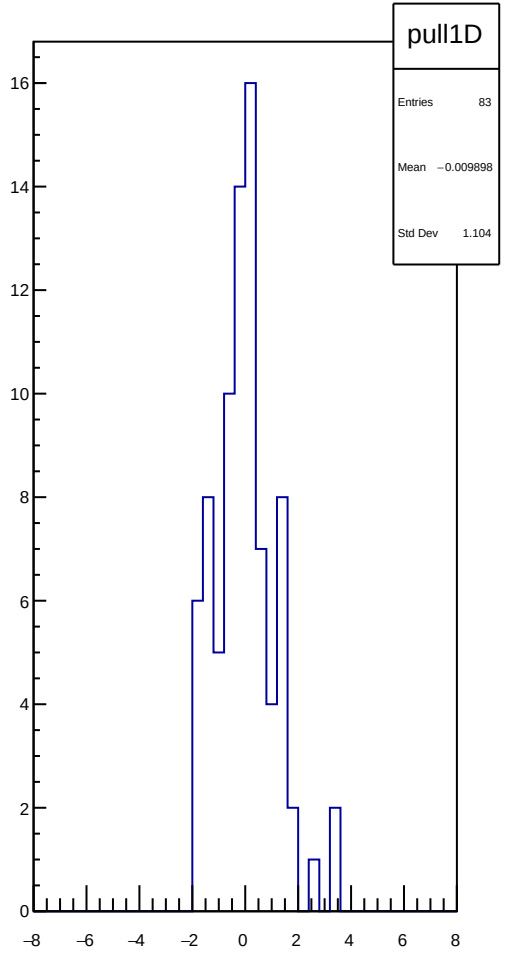

eigen_cor_asym_sam6_rms vs run
χ² / ndf 240 / 82
p0 169.3 ± 0.1334
176
174
172
170
168
166
164
162

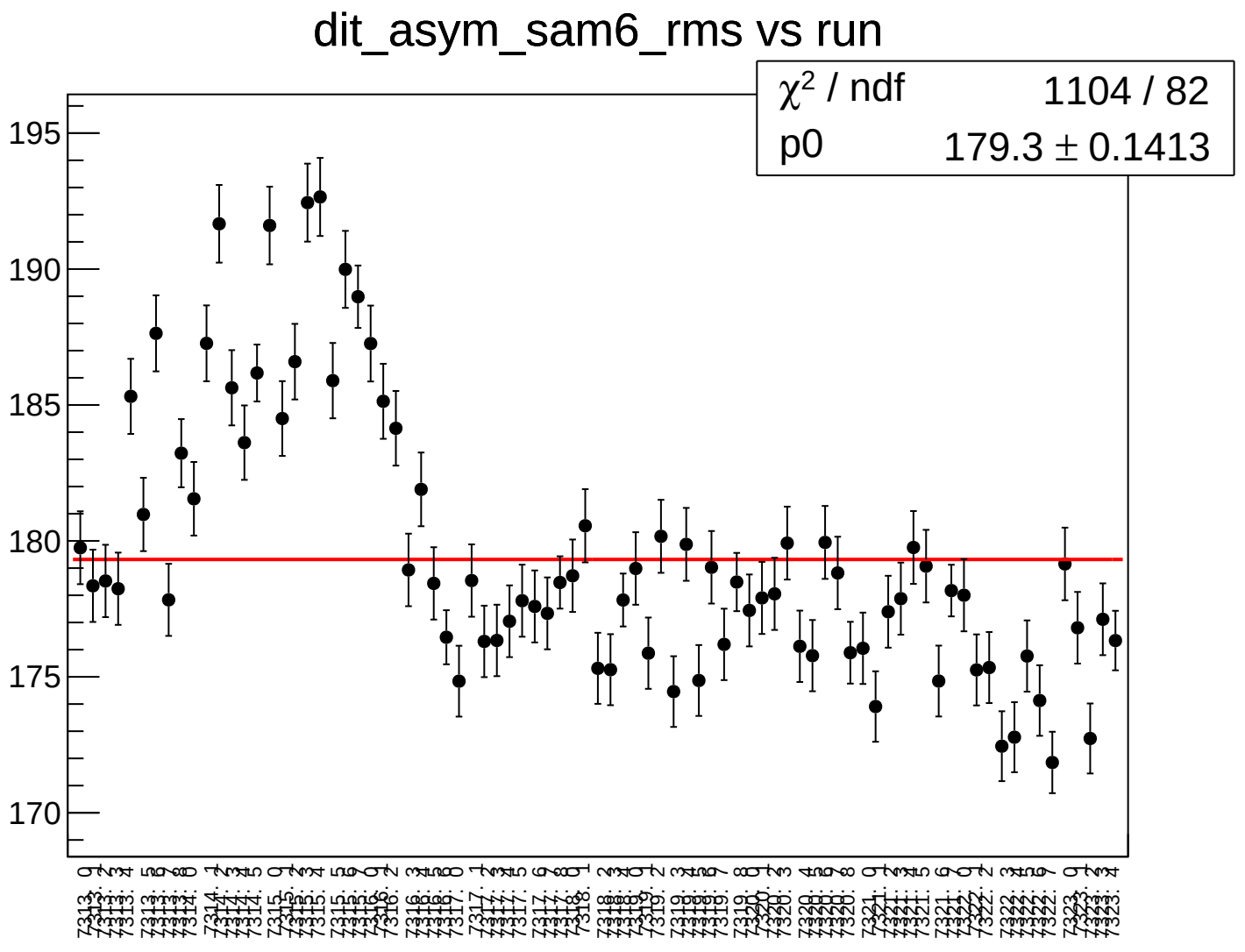

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 67.99 / 82
p0 850.6 ± 1375
pull
Entries 83
Mean 796.2
Std Dev 0

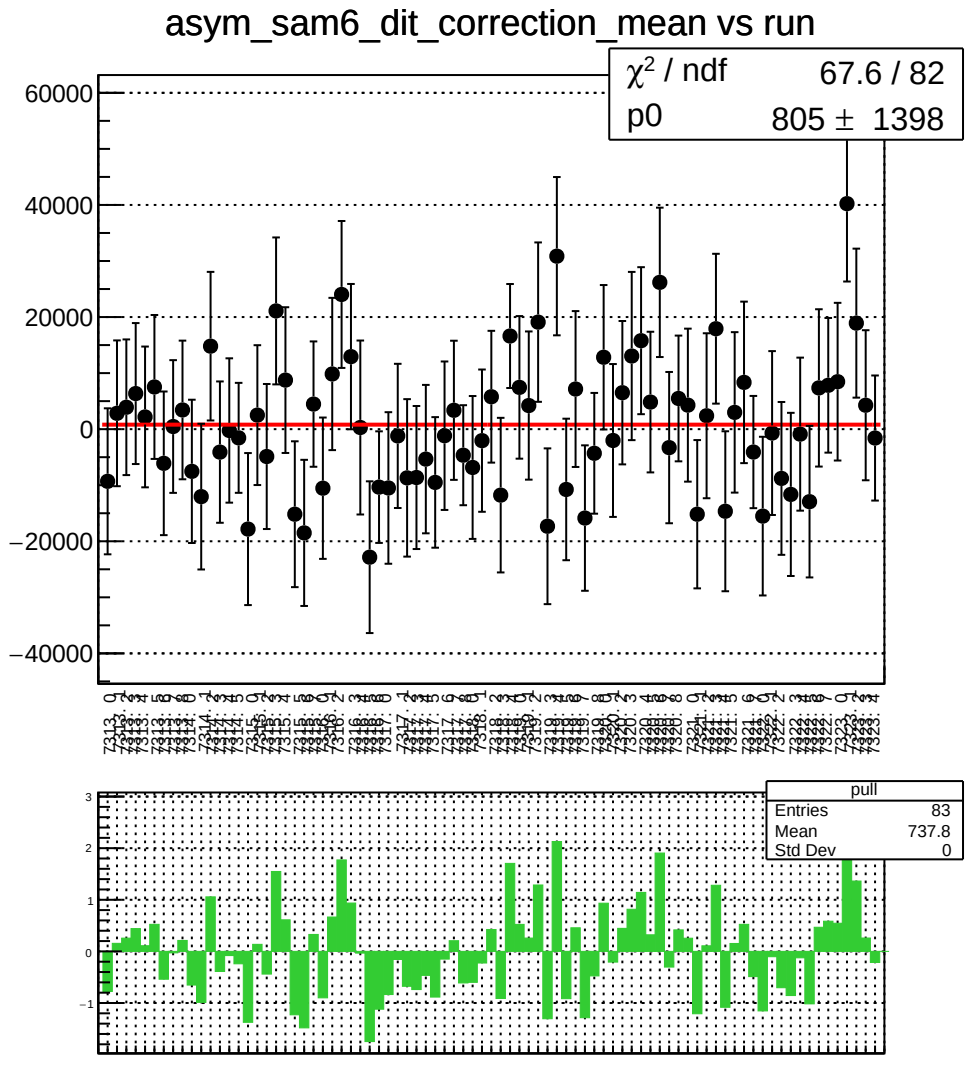

pull1D
Entries 83
Mean 0.004543
Std Dev 0.9051

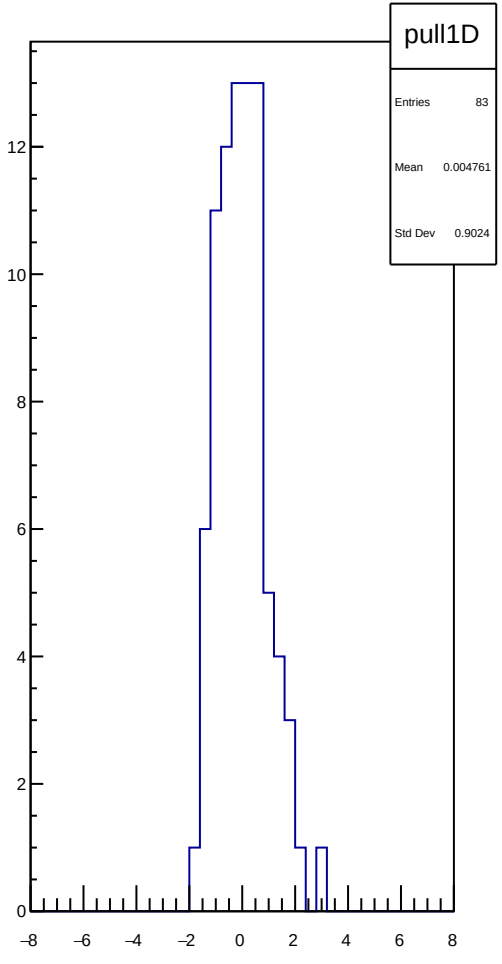

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4556 / 82
p0 1233 ± 0.9724
1450
1400
1350
1300
1250
1200
1150
1100
1050


dit_asym_sam6_mean vs run
χ² / ndf 101.1 / 82
p0 454.7 ± 199.8
pull
Entries 83
Mean −166.1
Std Dev 0

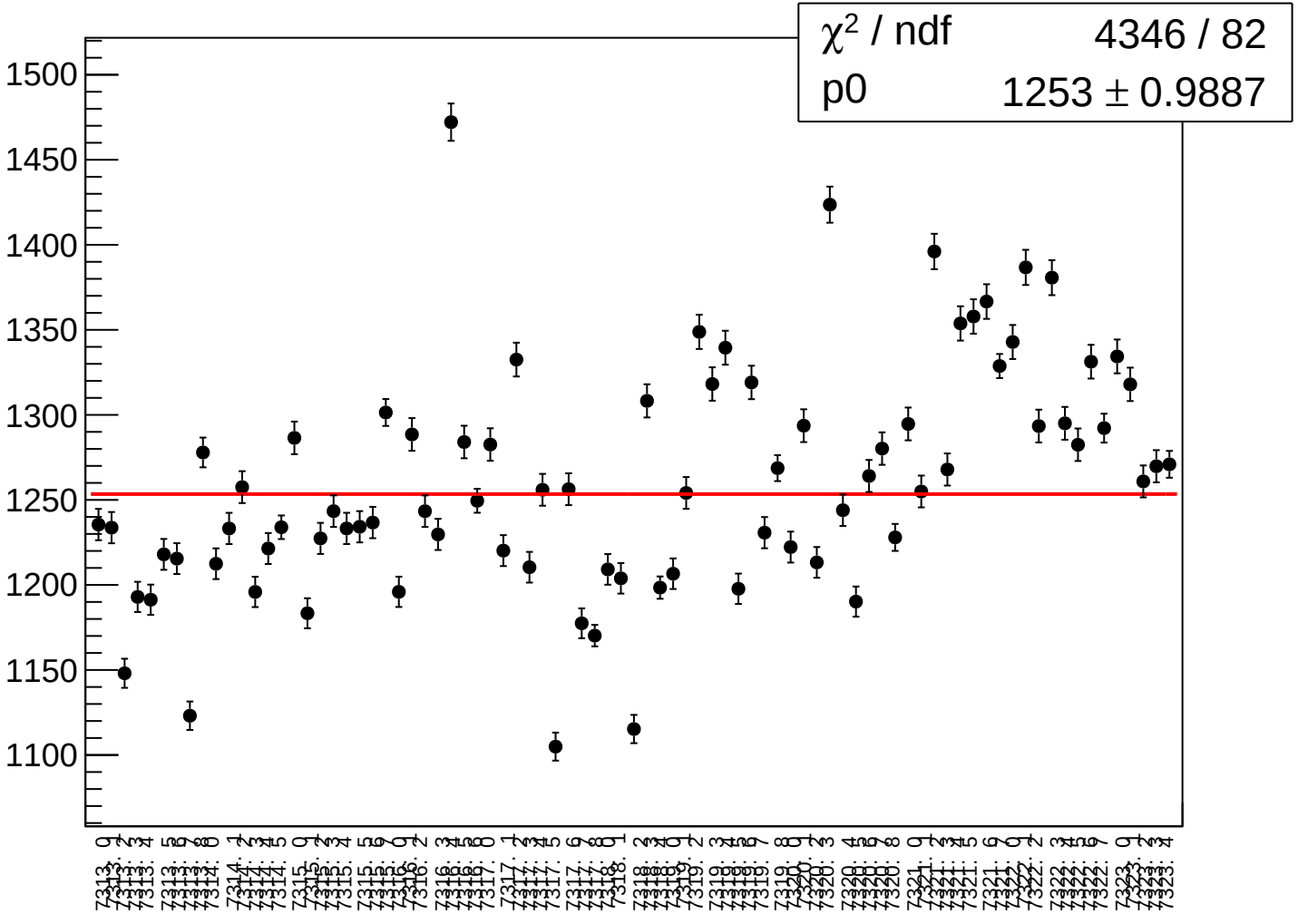

pull1D
Entries 83
Mean −0.009898
Std Dev 1.104

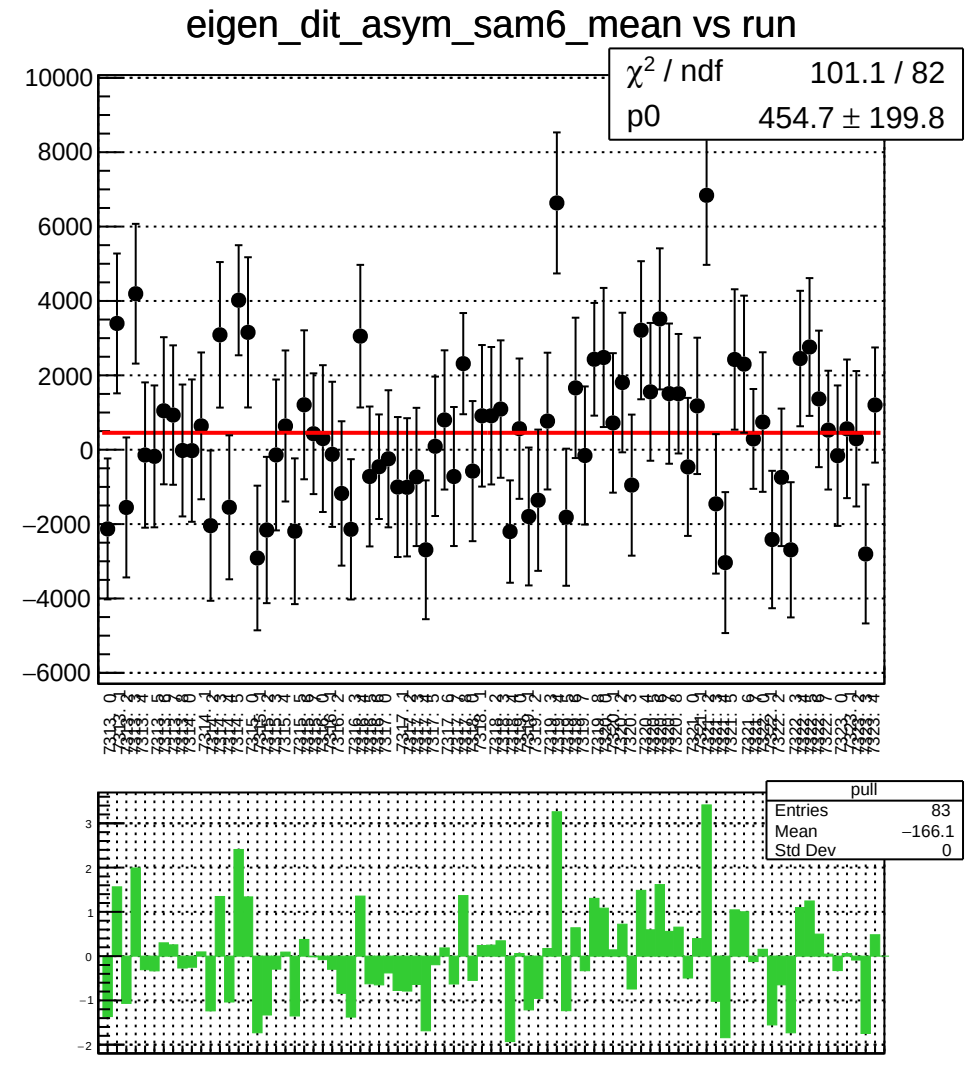

dit_asym_sam6_rms vs run
χ² / ndf 1104 / 82
p0 179.3 ± 0.1413
195
190
185
180
175
170

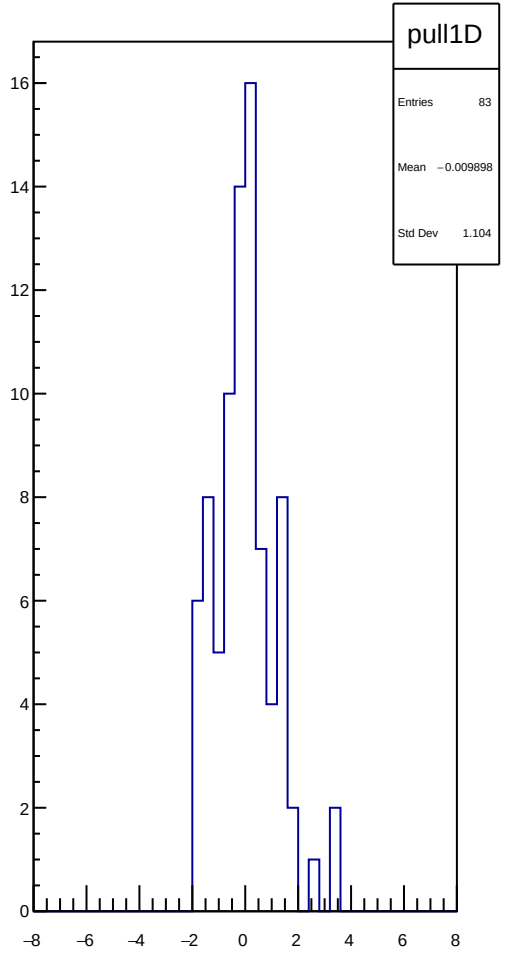

asym_sam6_dit_correction_mean vs run
χ² / ndf 67.6 / 82
p0 805 ± 1398
60000
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 737.8
Std Dev 0
3
2
1
0
−1

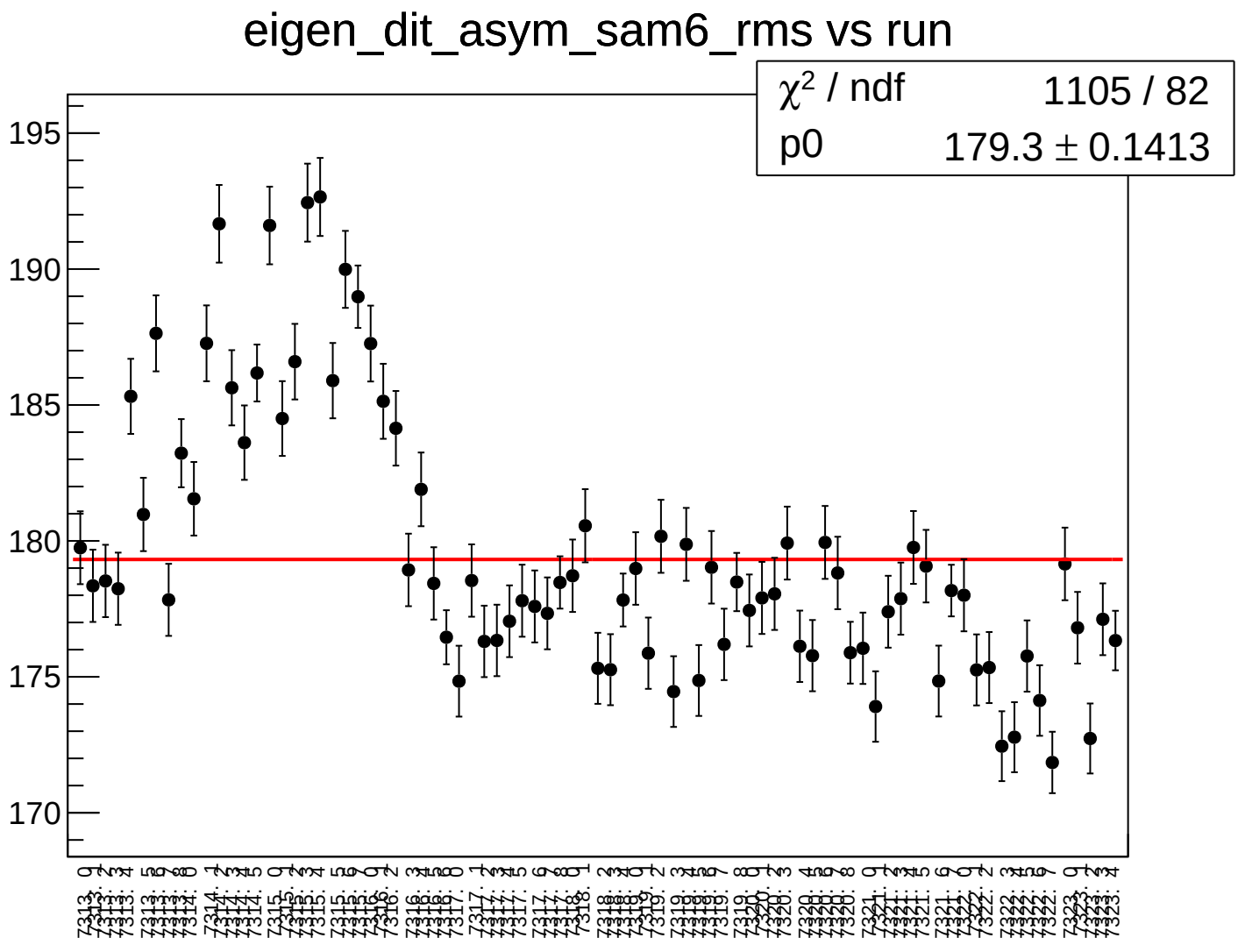

pull1D
Entries 83
Mean 0.004761
Std Dev 0.9024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

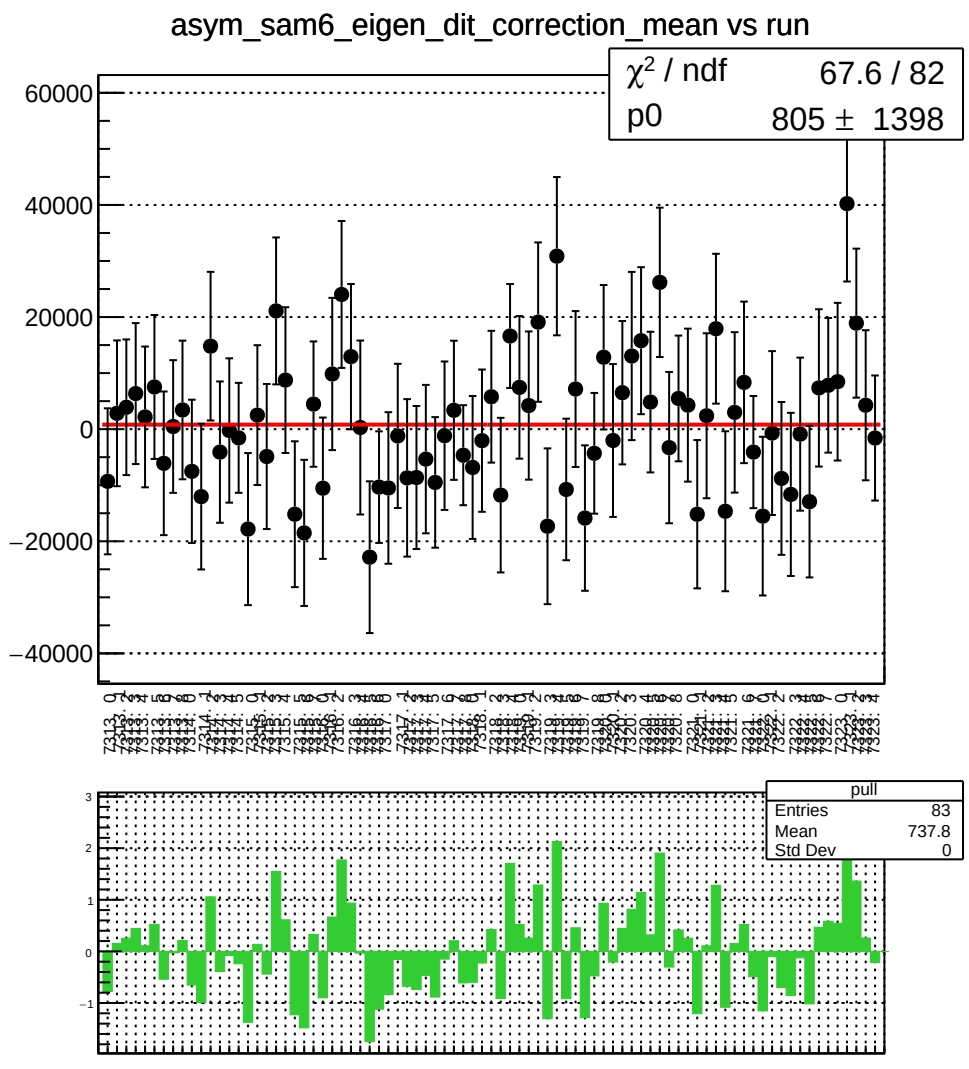
asym_sam6_dit_correction_rms vs run

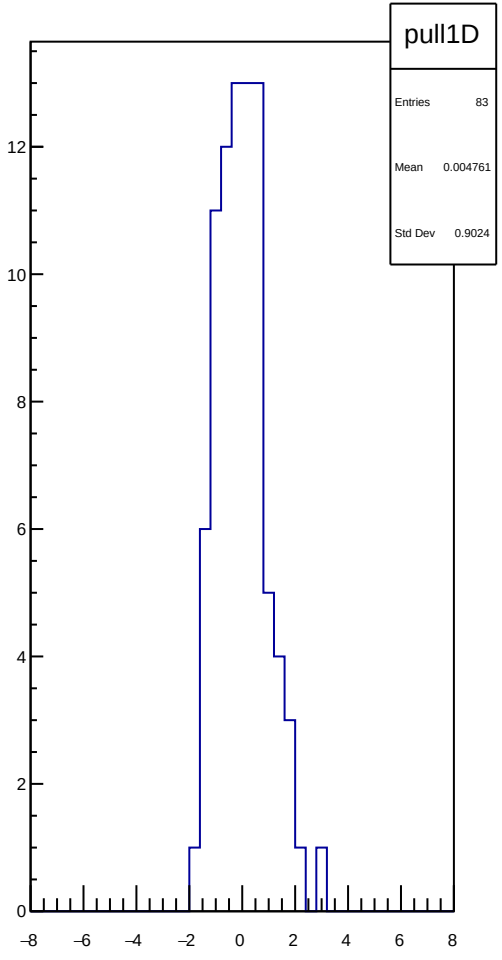


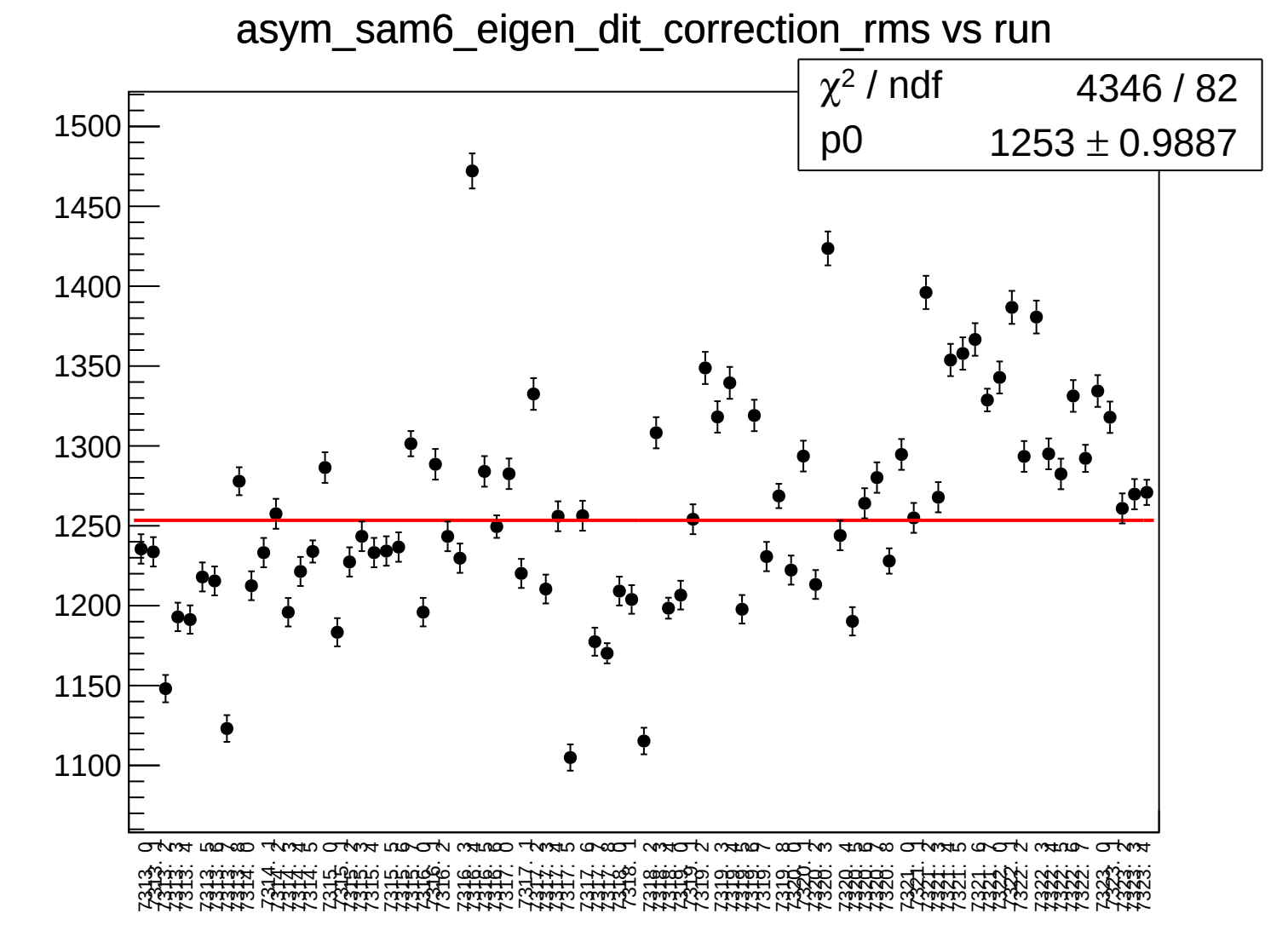

eigen_dit_asym_sam6_mean vs run
χ² / ndf 101.1 / 82
p0 454.7 ± 199.8
pull
Entries 83
Mean −166.1
Std Dev 0

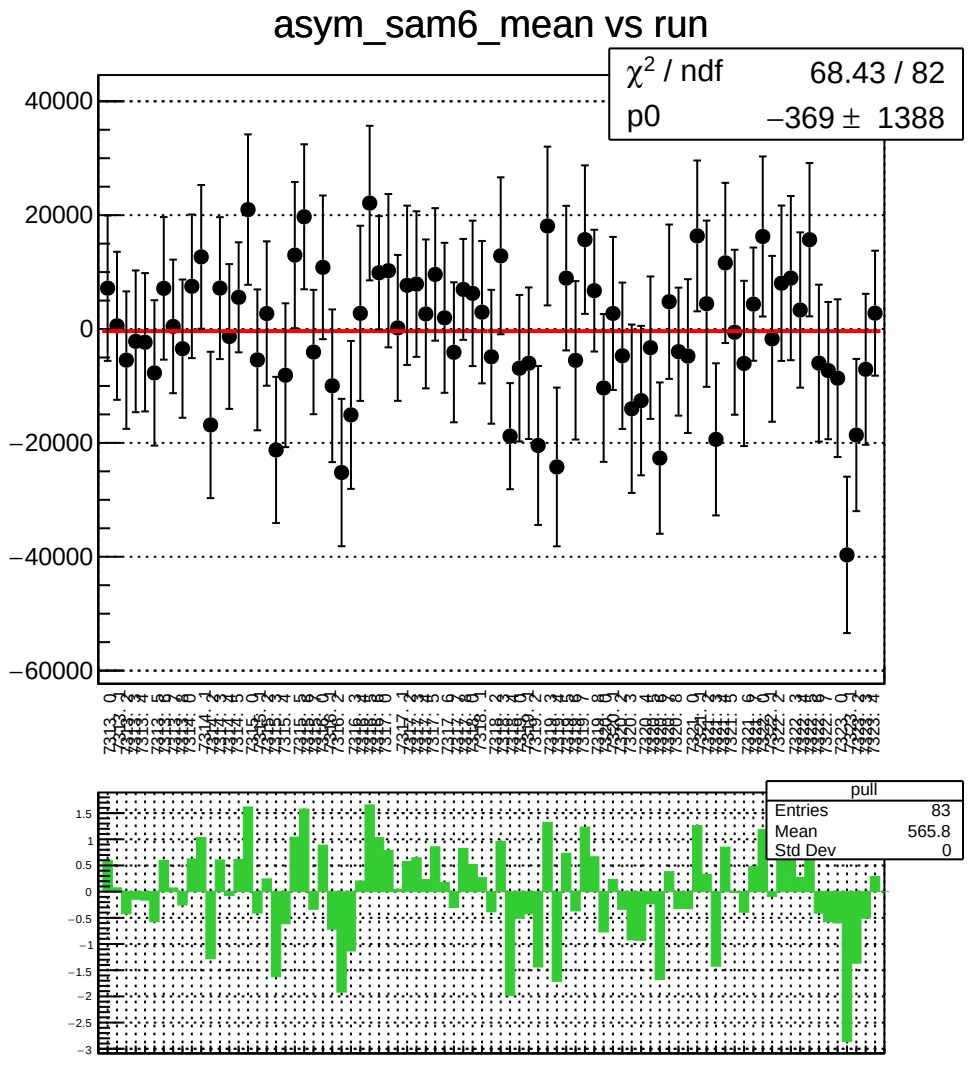

pull1D
Entries 83
Mean −0.009898
Std Dev 1.104

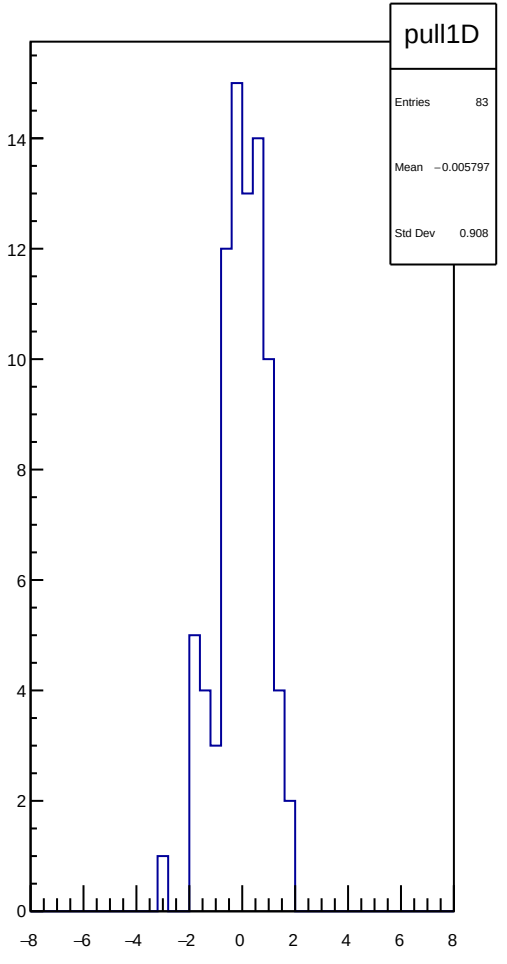

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1105 / 82
p0 179.3 ± 0.1413
195
190
185
180
175
170

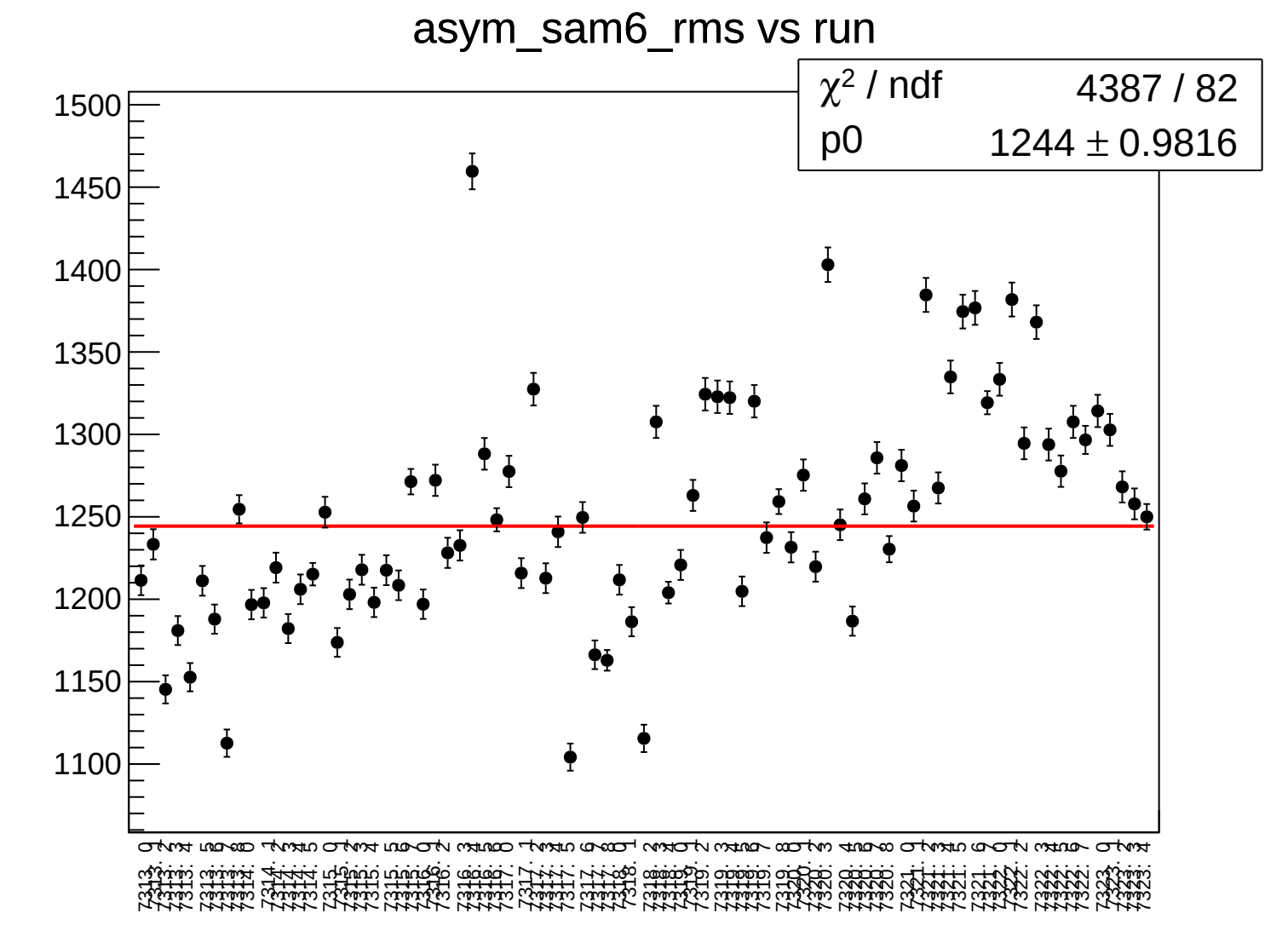

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 67.6 / 82
p0 805 ± 1398
pull
Entries 83
Mean 737.8
Std Dev 0

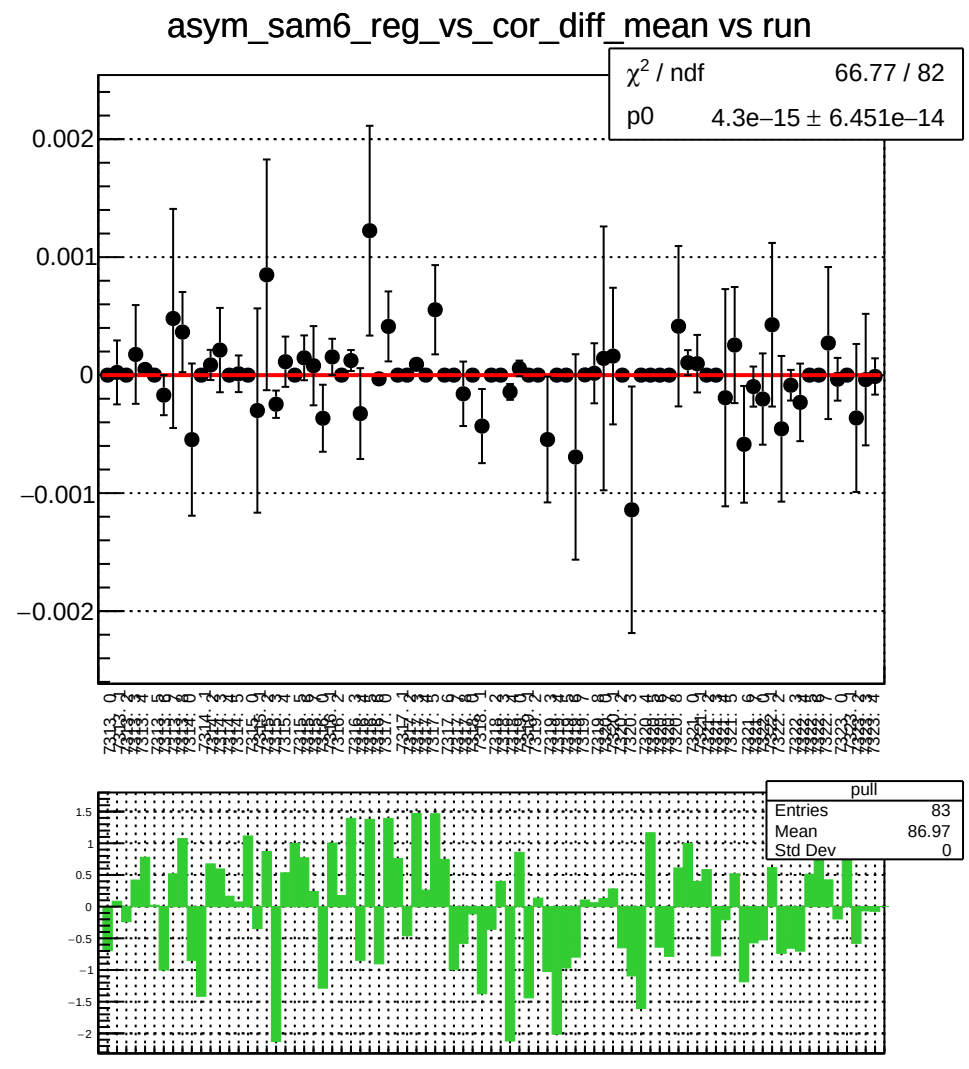

pull1D
Entries 83
Mean 0.004761
Std Dev 0.9024

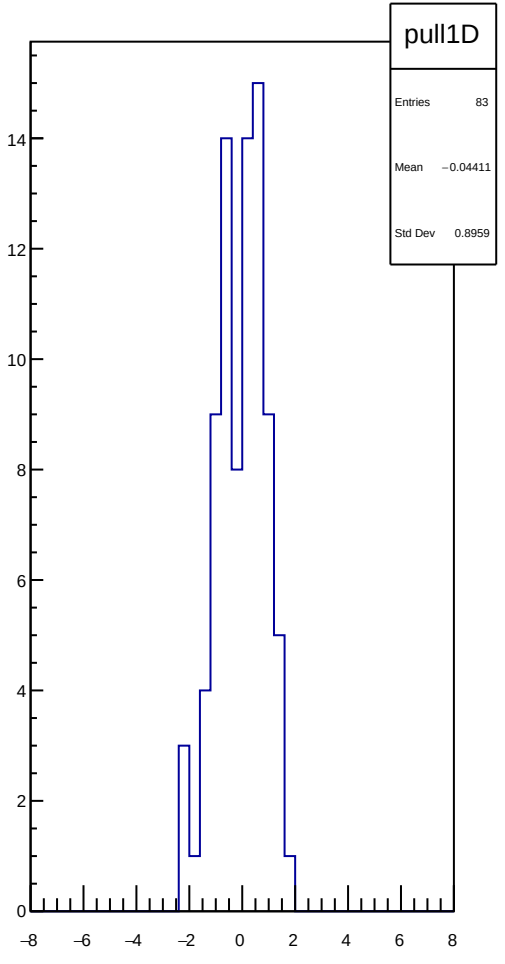

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4346 / 82
p0 1253 ± 0.9887
1500
1450
1400
1350
1300
1250
1200
1150
1100

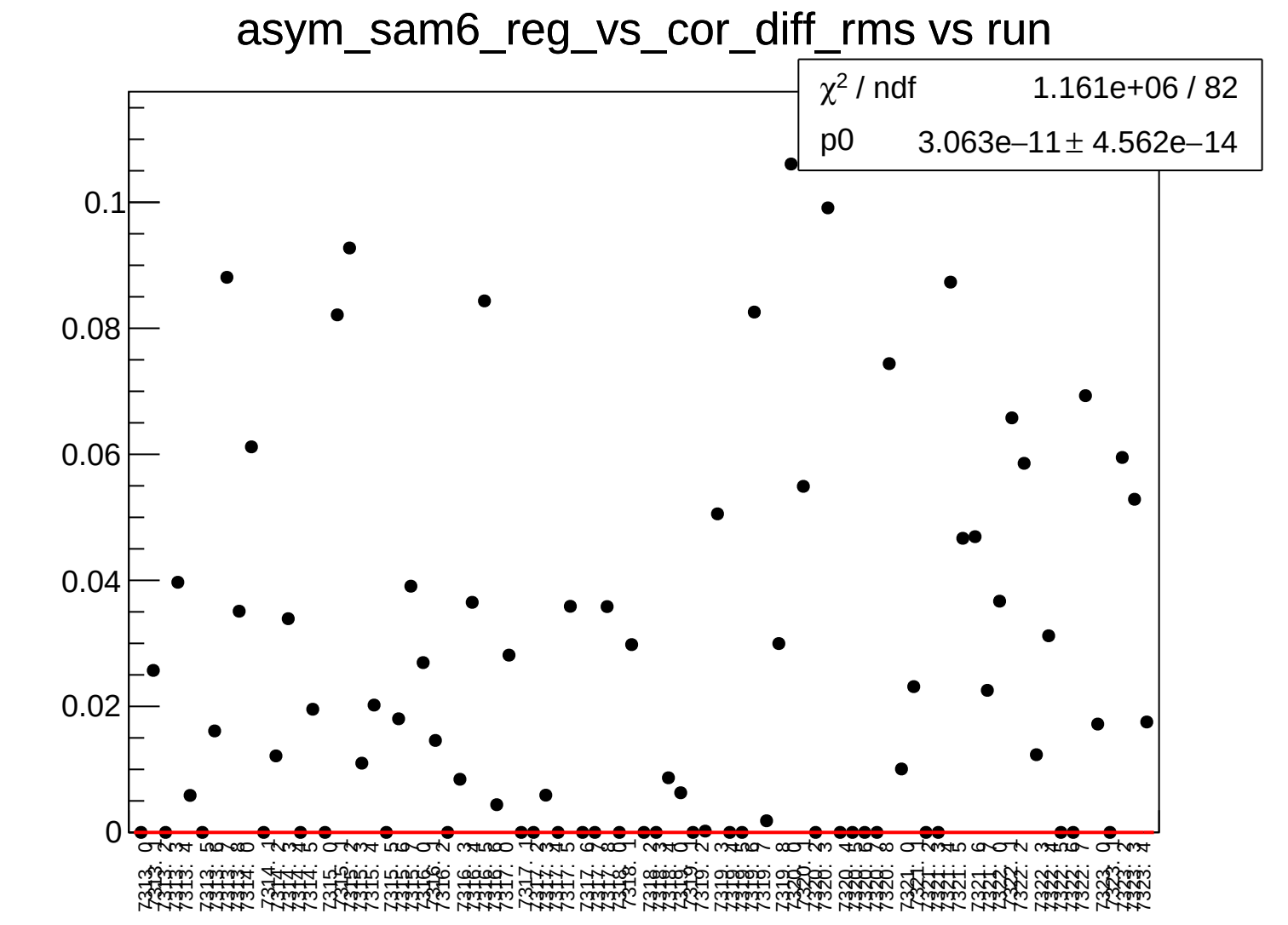

asym_sam6_mean vs run
χ² / ndf 68.43 / 82
p0 −369 ± 1388
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 565.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

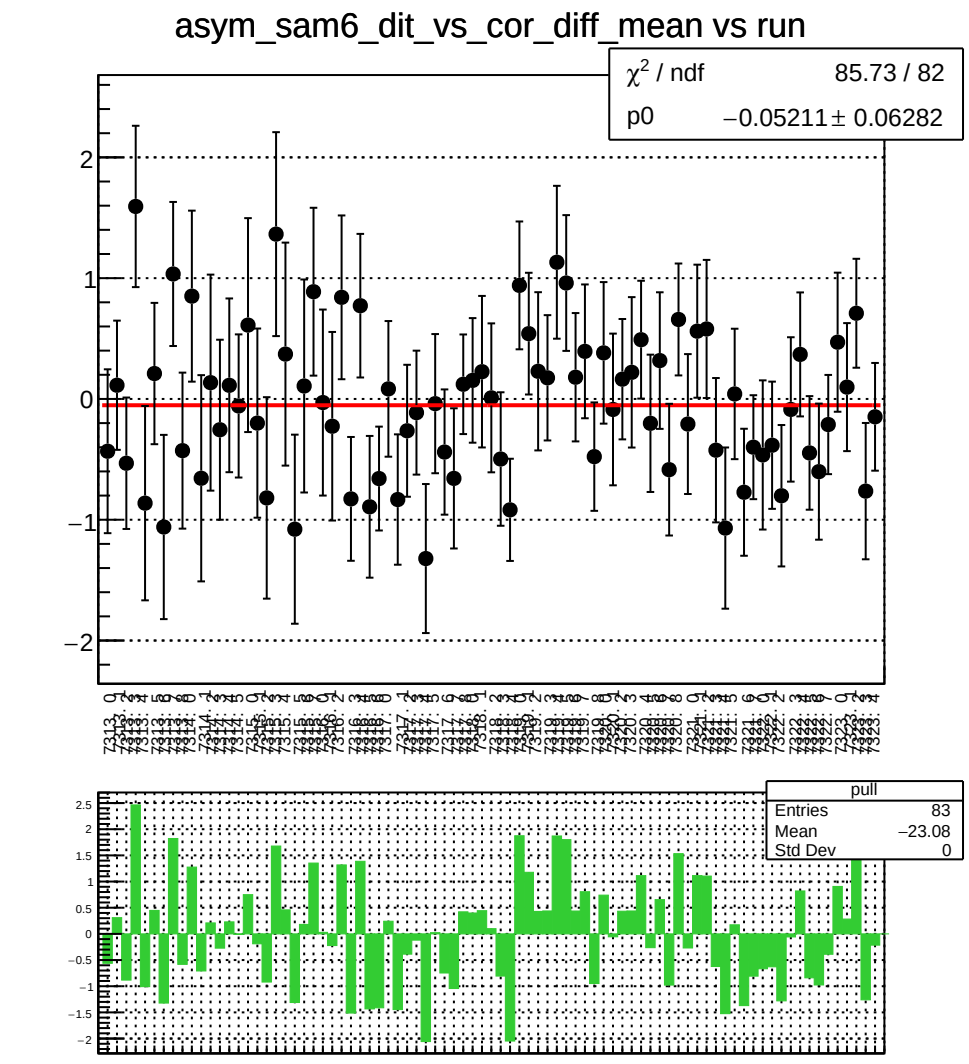

pull1D
Entries 83
Mean −0.005797
Std Dev 0.908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

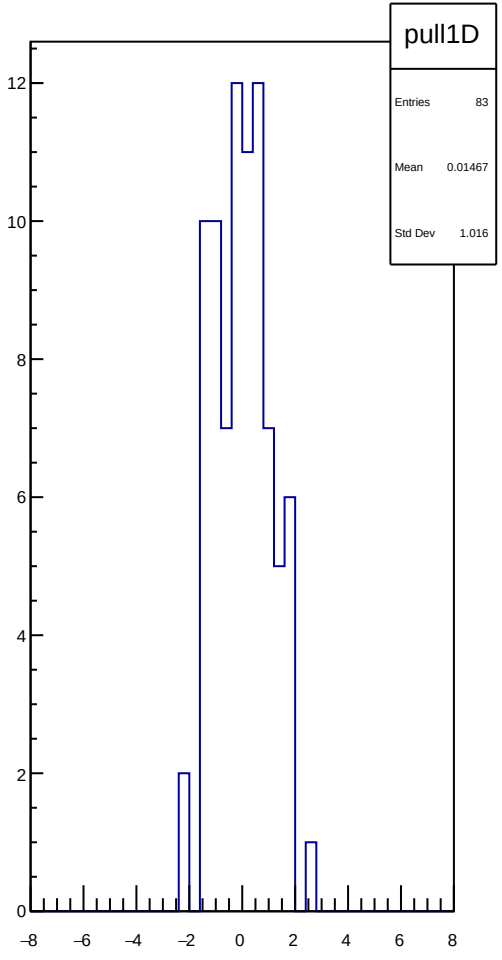

asym_sam6_rms vs run
χ² / ndf 4387 / 82
p0 1244 ± 0.9816
1500
1450
1400
1350
1300
1250
1200
1150
1100

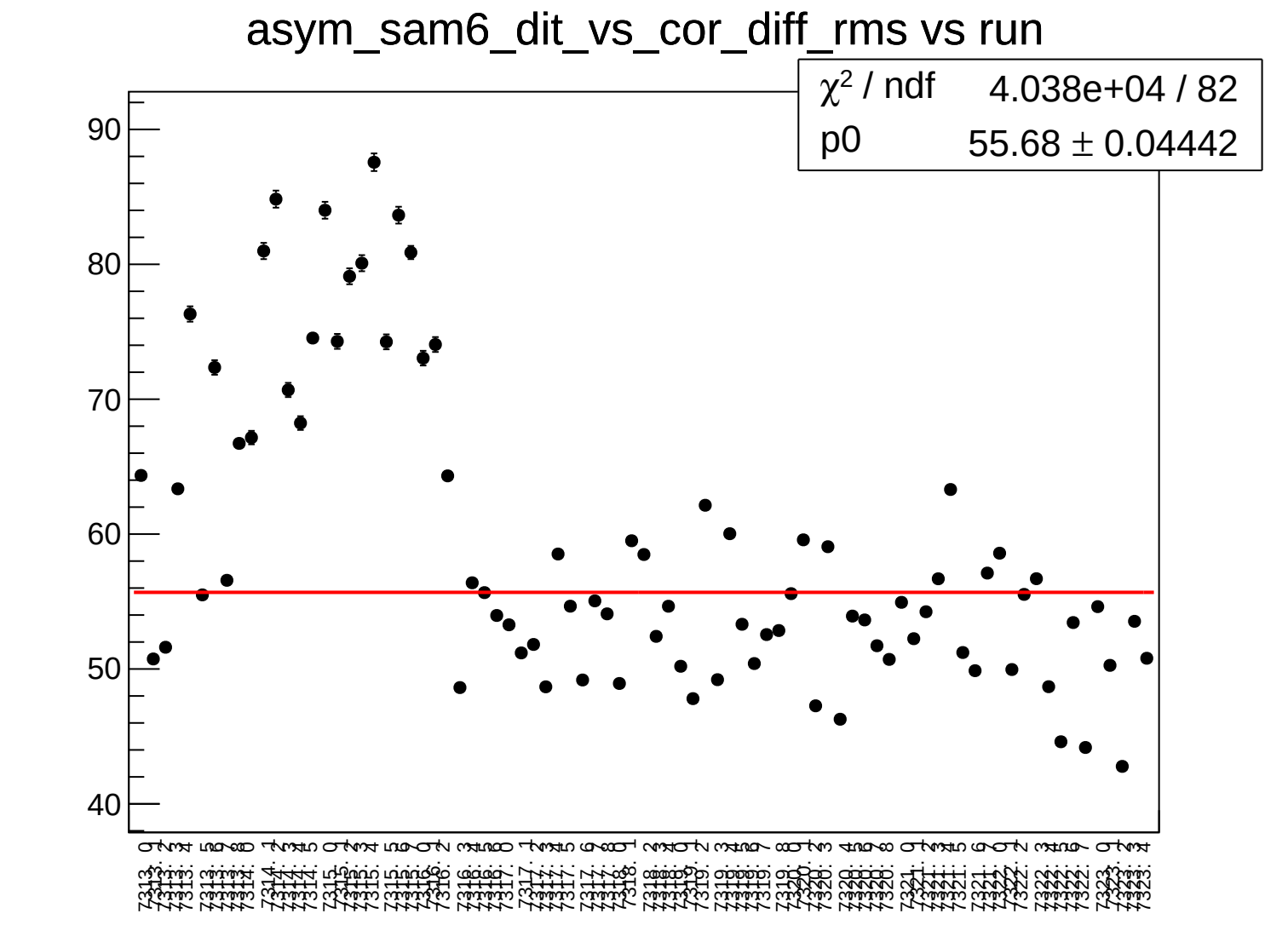

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 66.77 / 82
p0 4.3e−15 ± 6.451e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 83
Mean 86.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

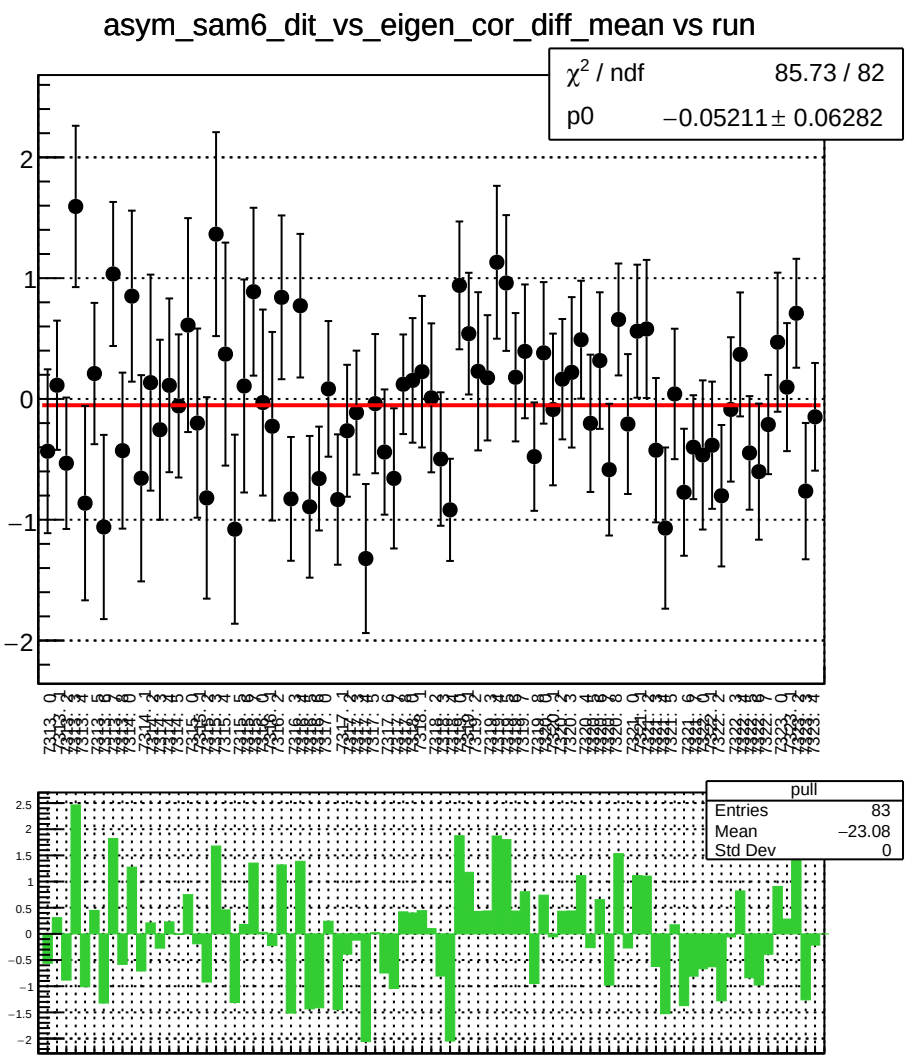

pull1D
Entries 83
Mean −0.04411
Std Dev 0.8959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

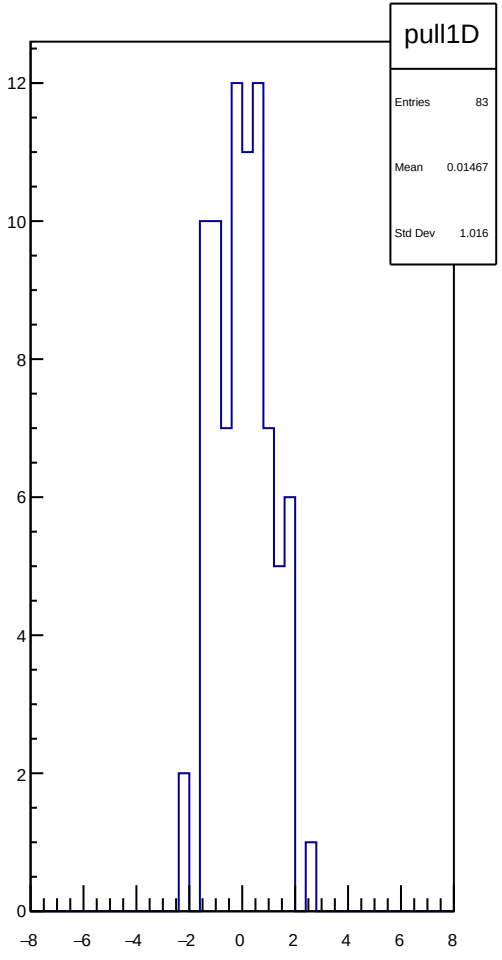

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 82
p0 3.063e−11 ± 4.562e−14
0.1
0.08
0.06
0.04
0.02
0

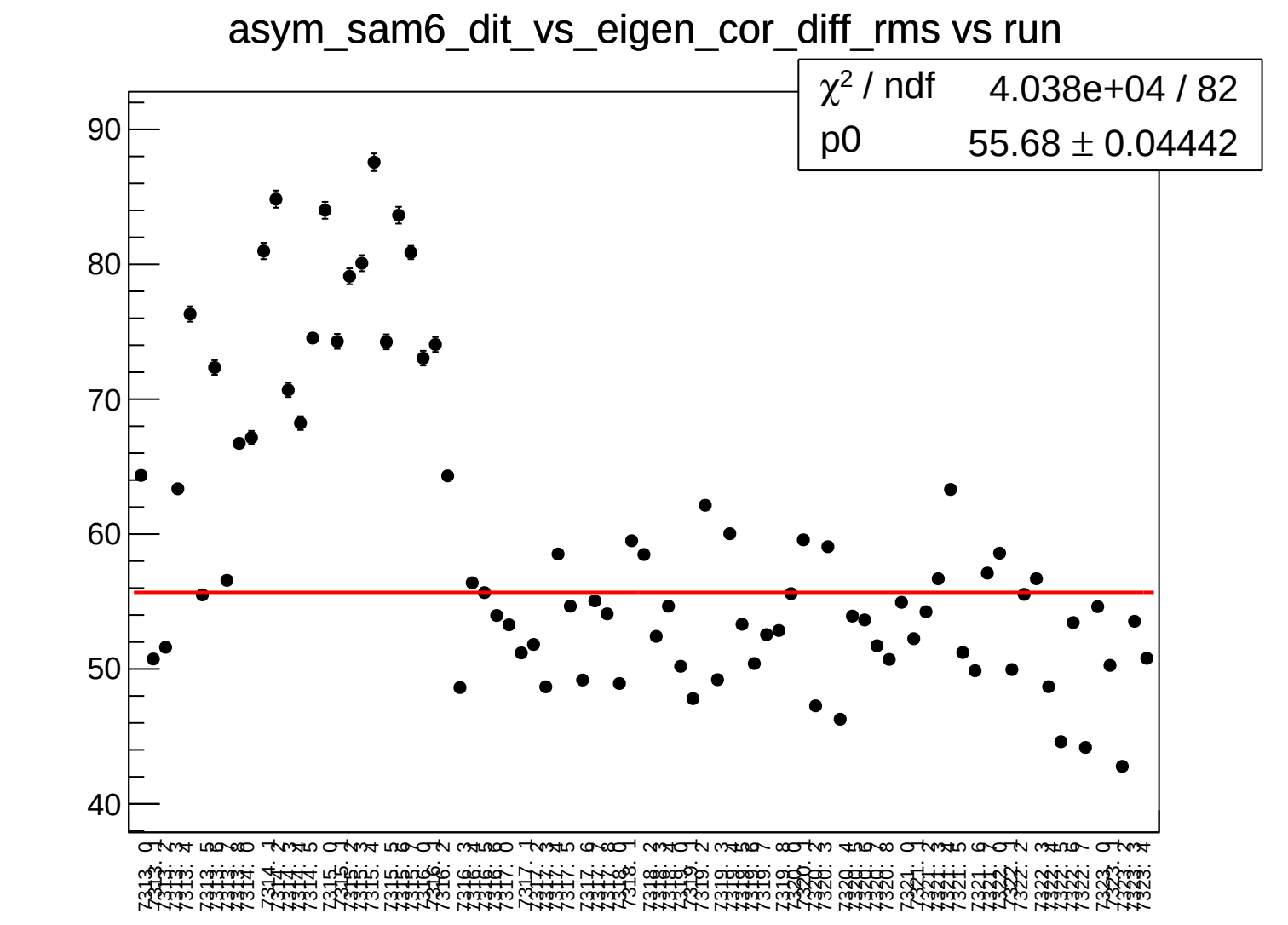

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 85.73 / 82
p0 −0.05211 ± 0.06282
pull
Entries 83
Mean −23.08
Std Dev 0

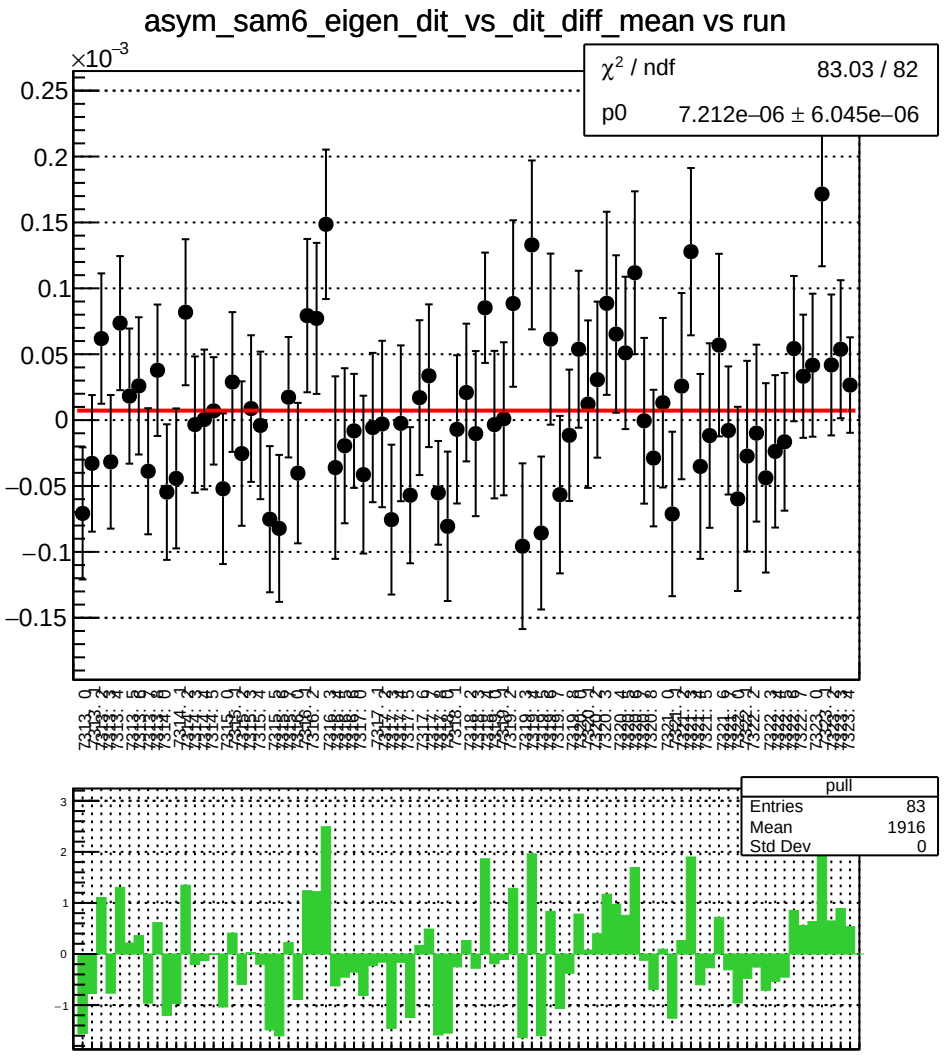

pull1D
Entries 83
Mean 0.01467
Std Dev 1.016

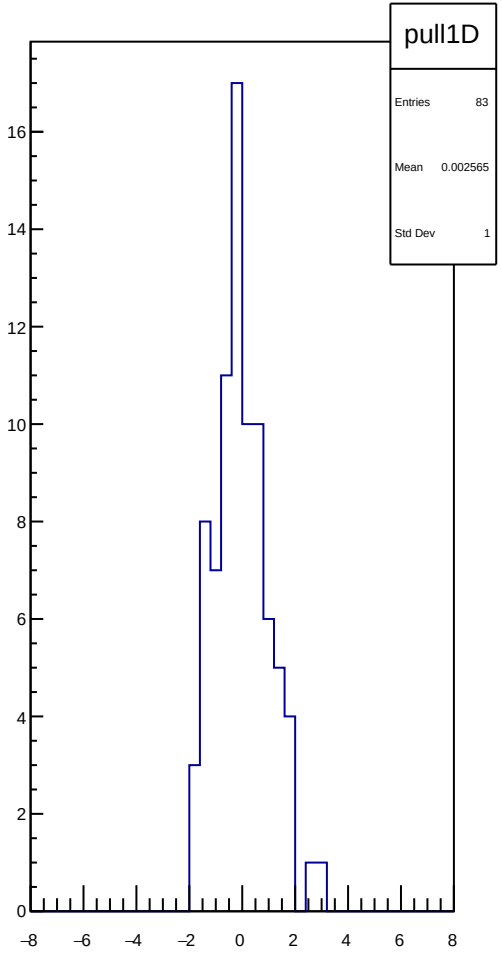

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.038e+04 / 82
p0 55.68 ± 0.04442
90
80
70
60
50
40

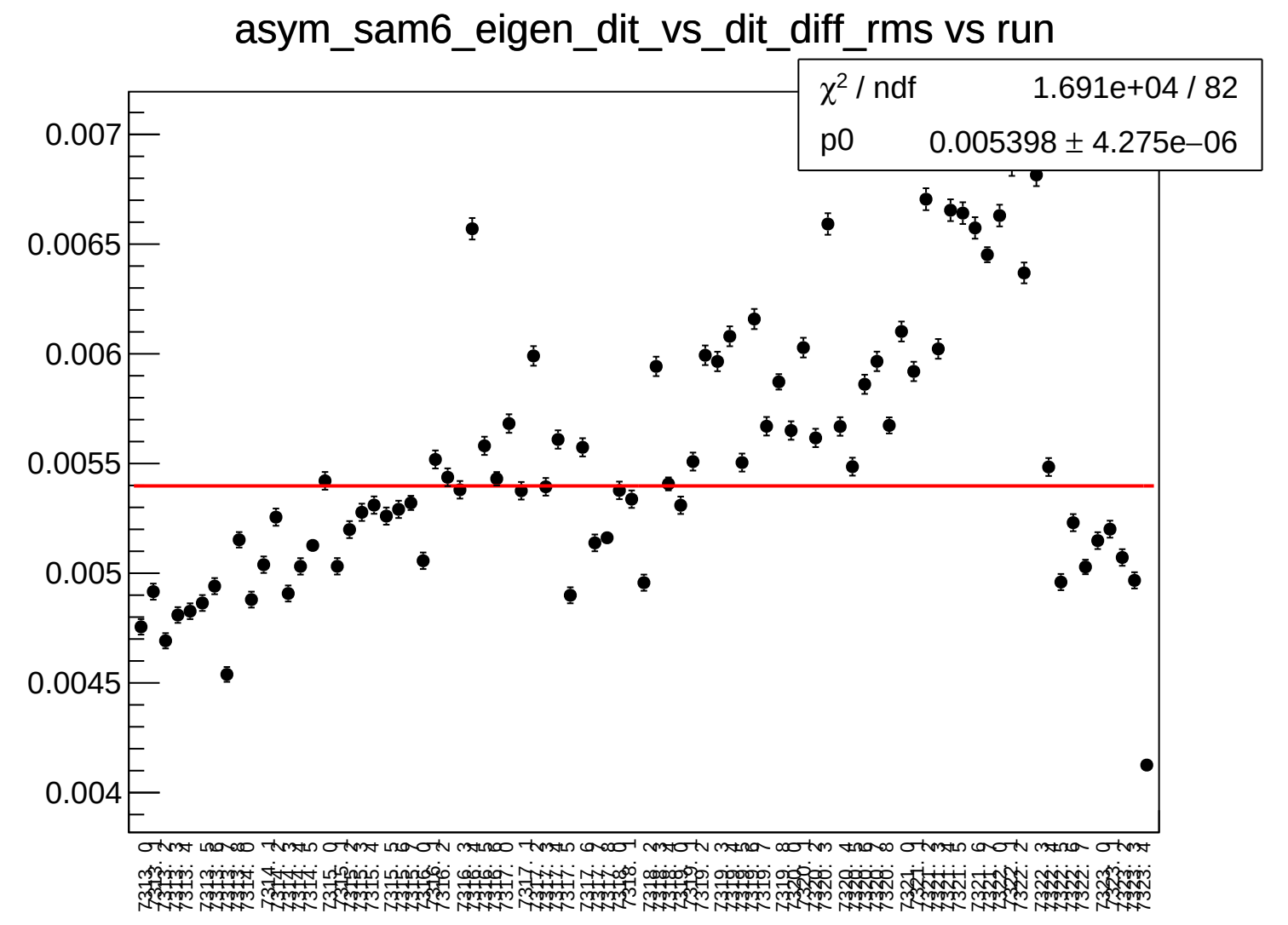

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.73 / 82
p0 −0.05211 ± 0.06282
pull
Entries 83
Mean −23.08
Std Dev 0

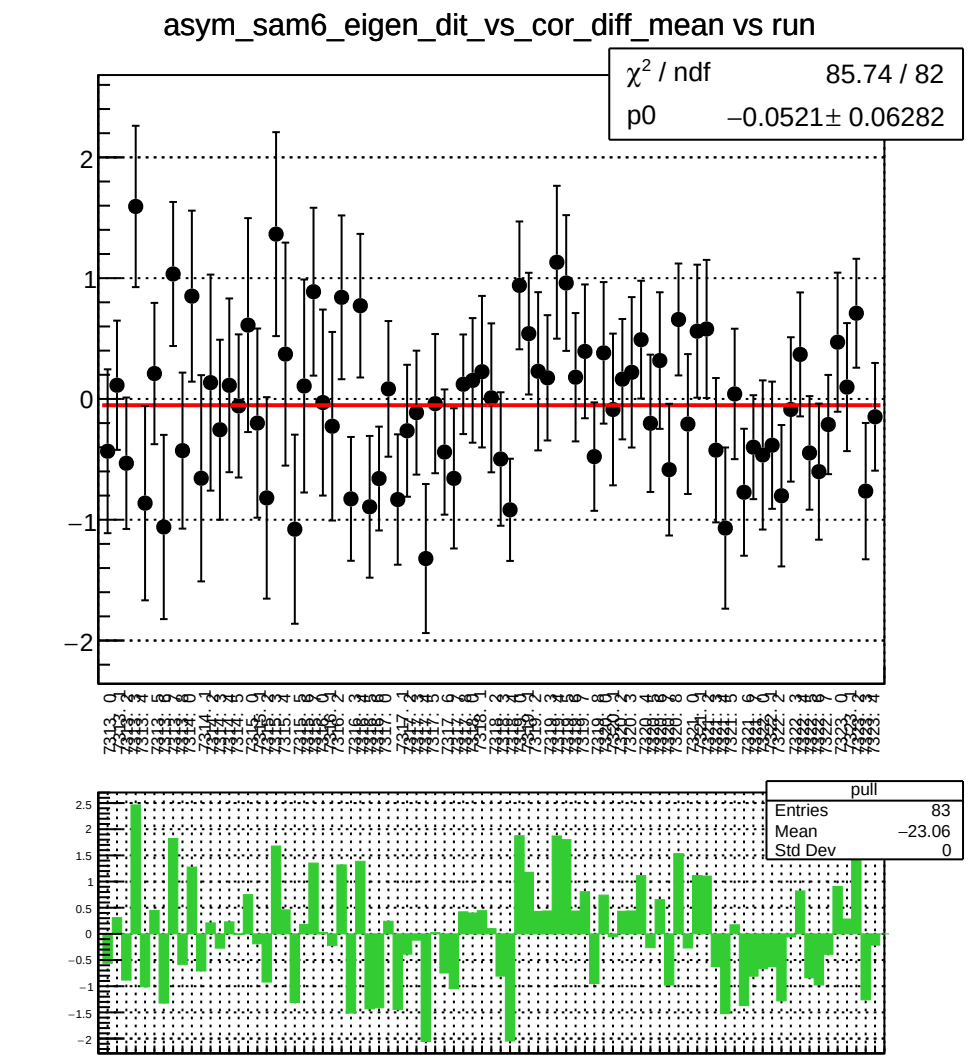

pull1D
Entries 83
Mean 0.01467
Std Dev 1.016

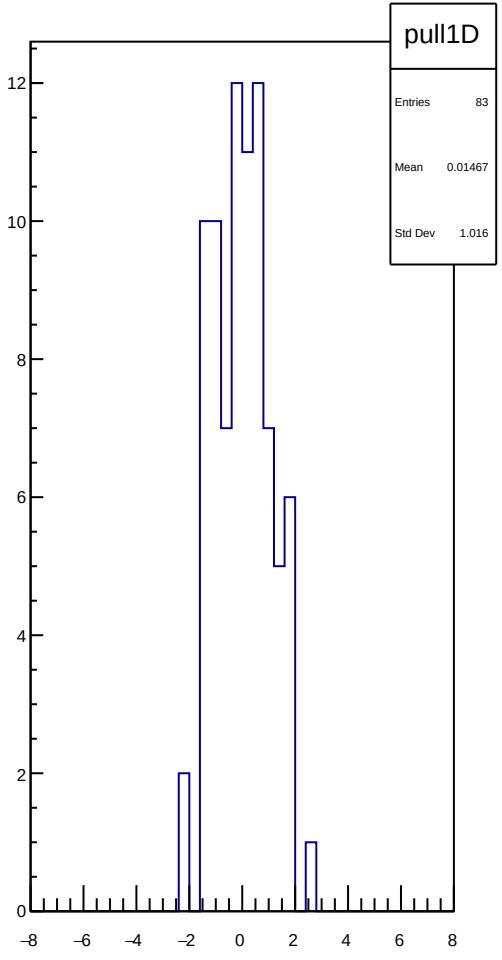

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.038e+04 / 82
p0 55.68 ± 0.04442
90
80
70
60
50
40

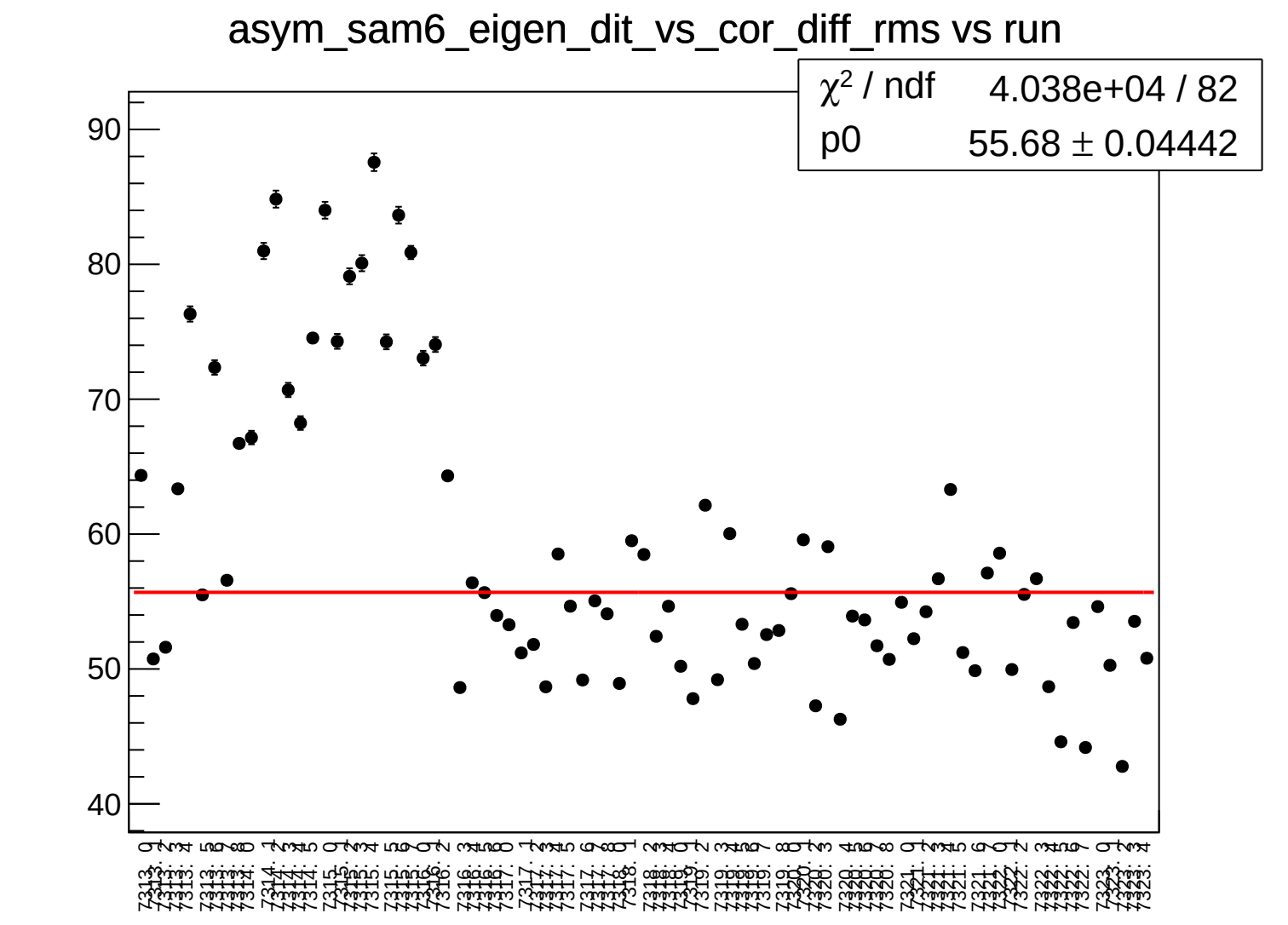

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.03 / 82
p0 7.212e−06 ± 6.045e−06
pull
Entries 83
Mean 1916
Std Dev 0

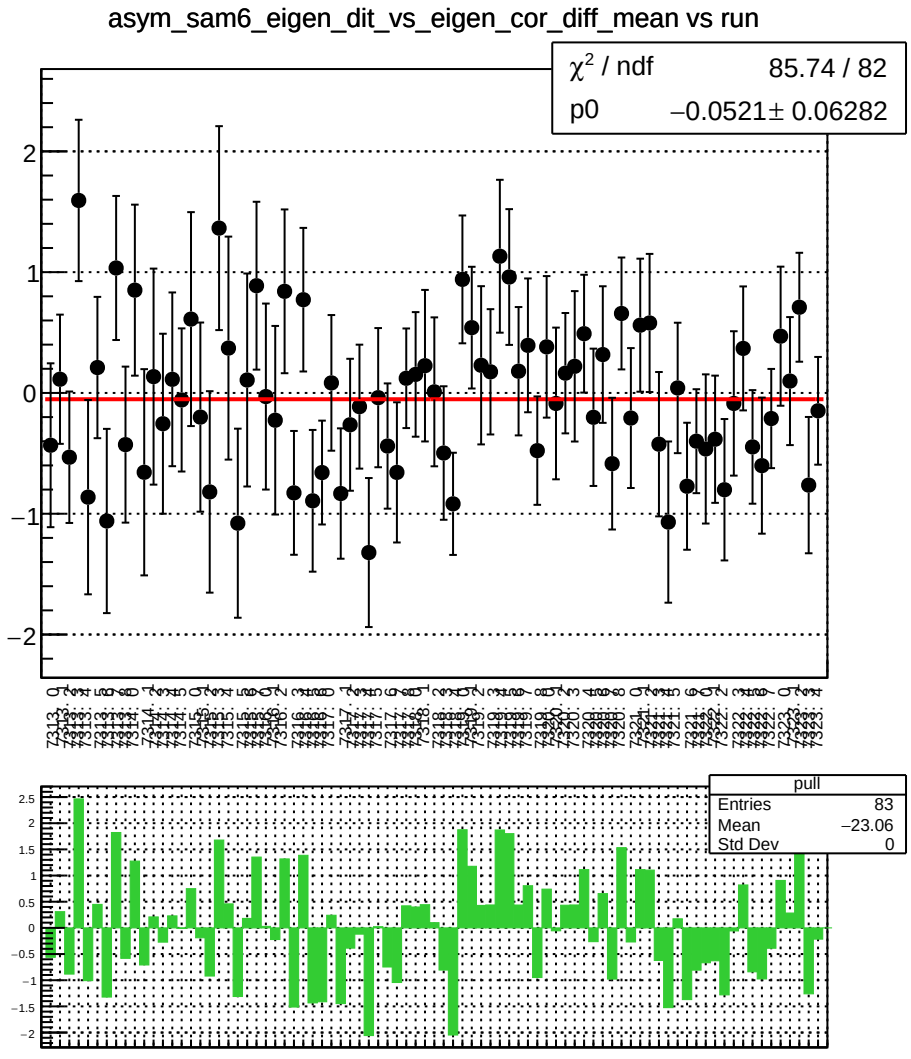

pull1D
Entries 83
Mean 0.002565
Std Dev 1

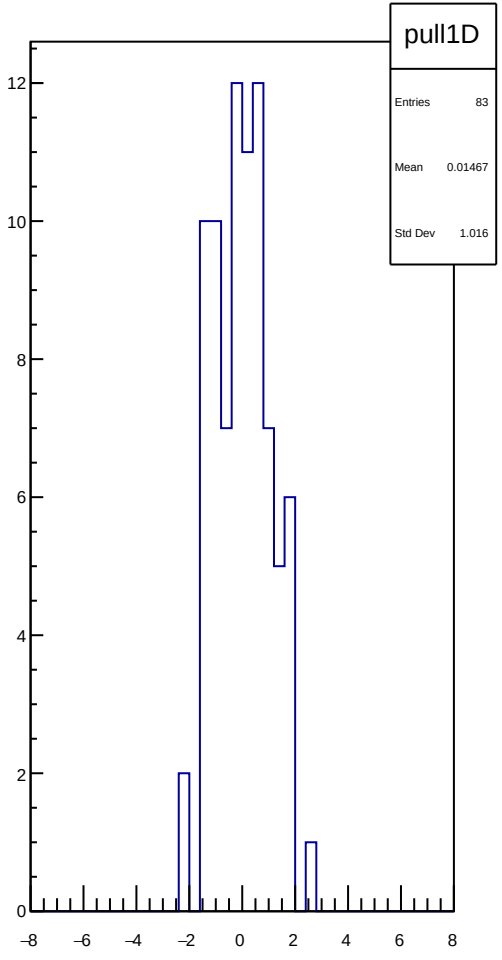

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.691e+04 / 82
p0 0.005398 ± 4.275e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

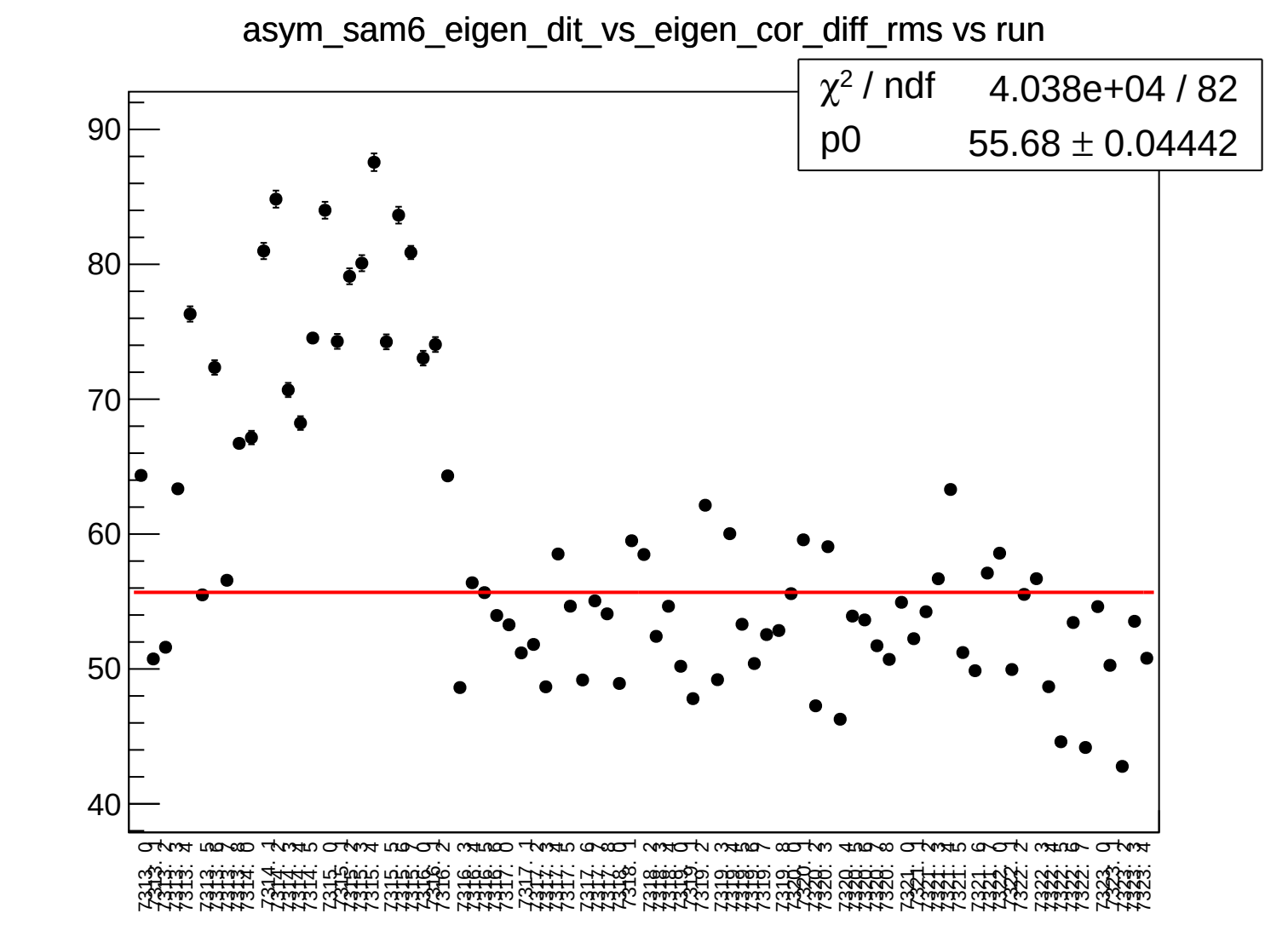

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.74 / 82
p0 −0.0521± 0.06282
pull
Entries 83
Mean −23.06
Std Dev 0

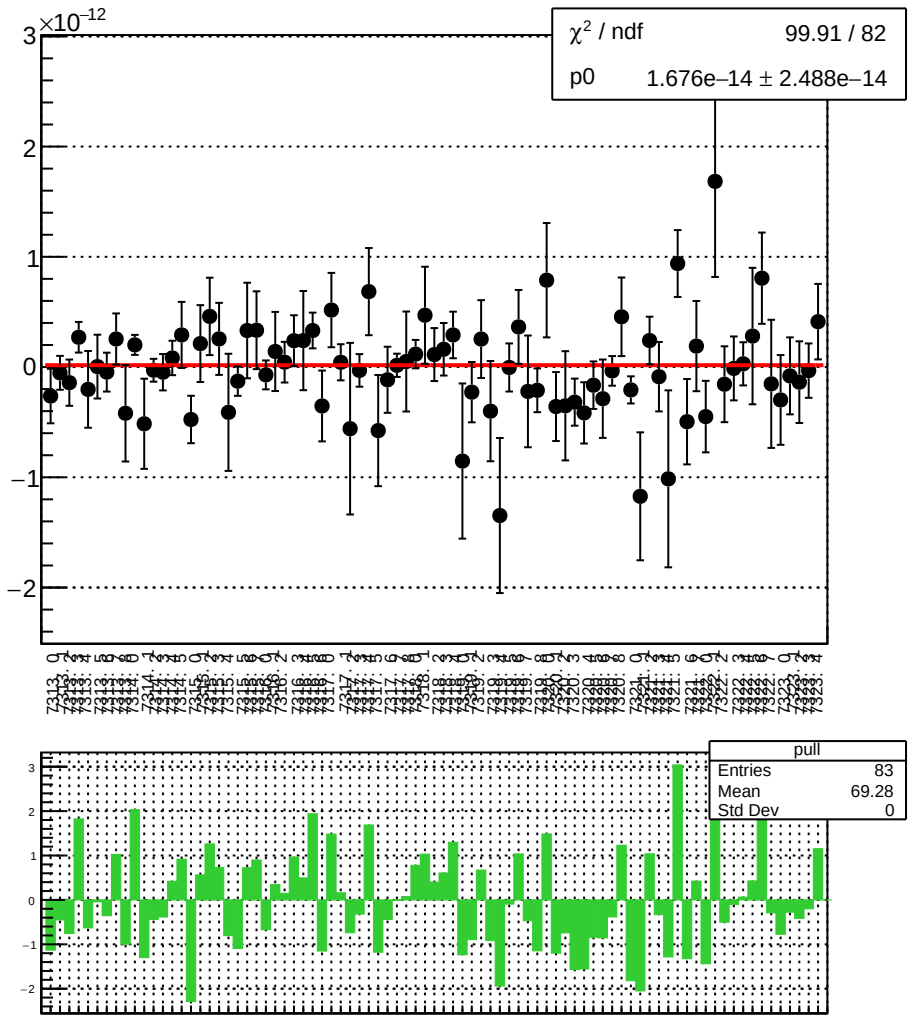

pull1D
Entries 83
Mean 0.01467
Std Dev 1.016

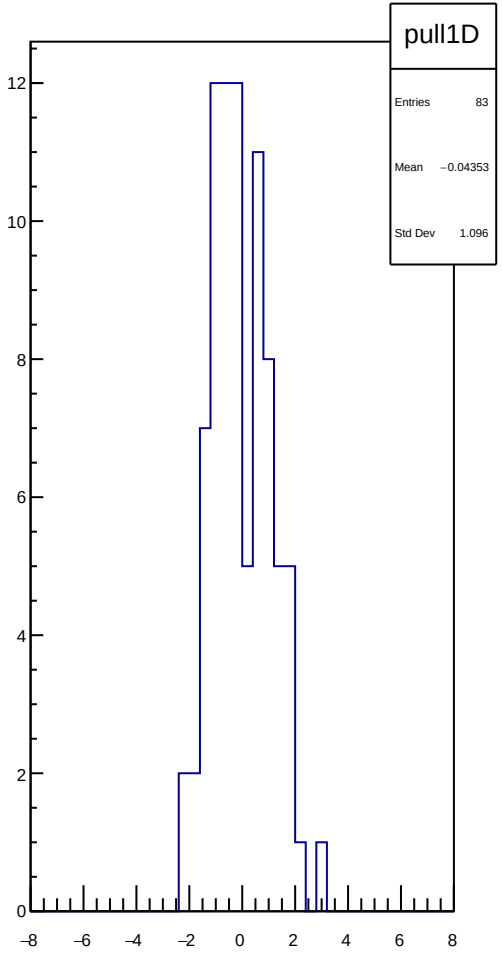

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.038e+04 / 82
p0 55.68 ± 0.04442
90
80
70
60
50
40

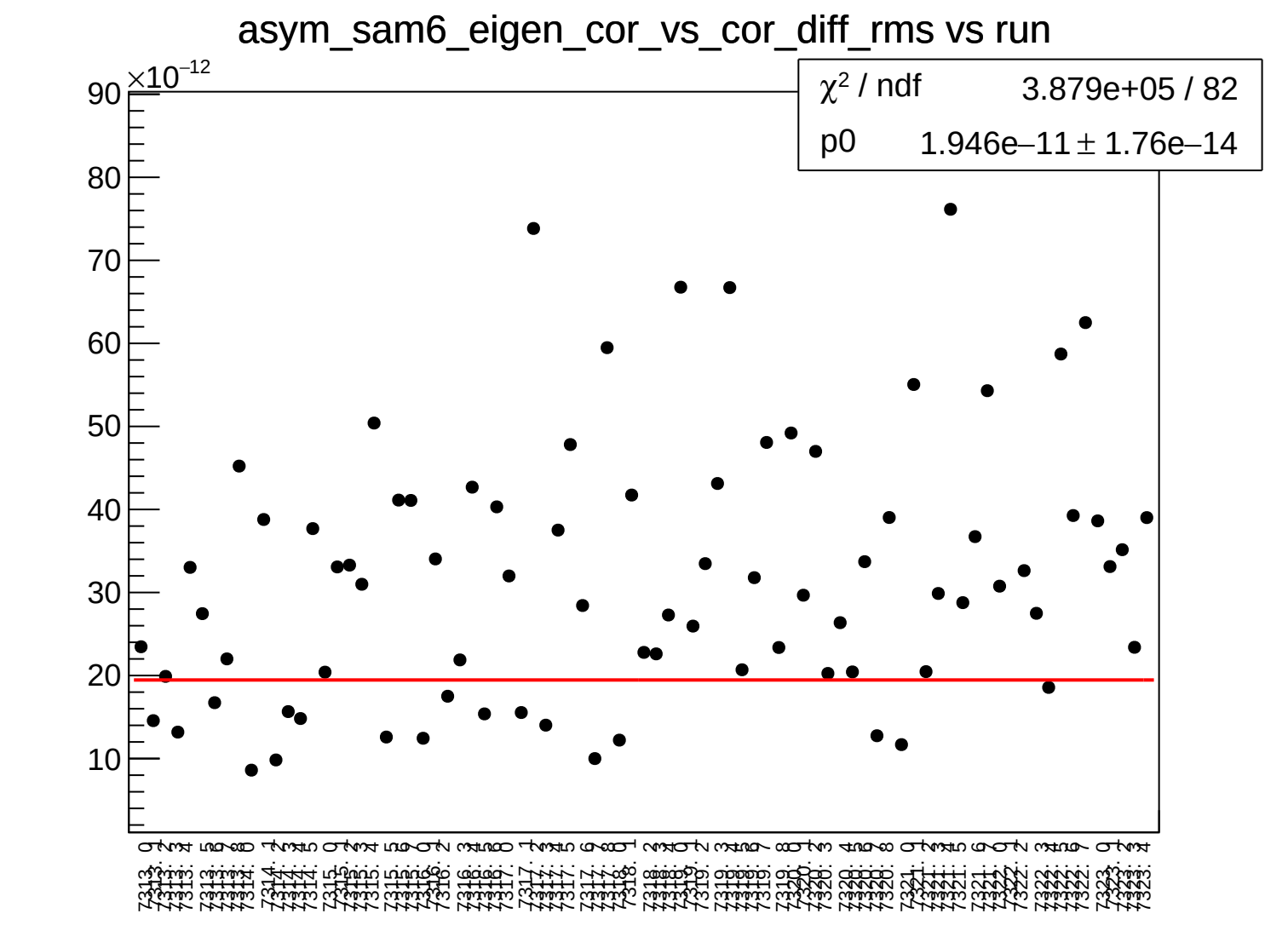

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.74 / 82
p0 −0.0521± 0.06282
pull
Entries 83
Mean −23.06
Std Dev 0

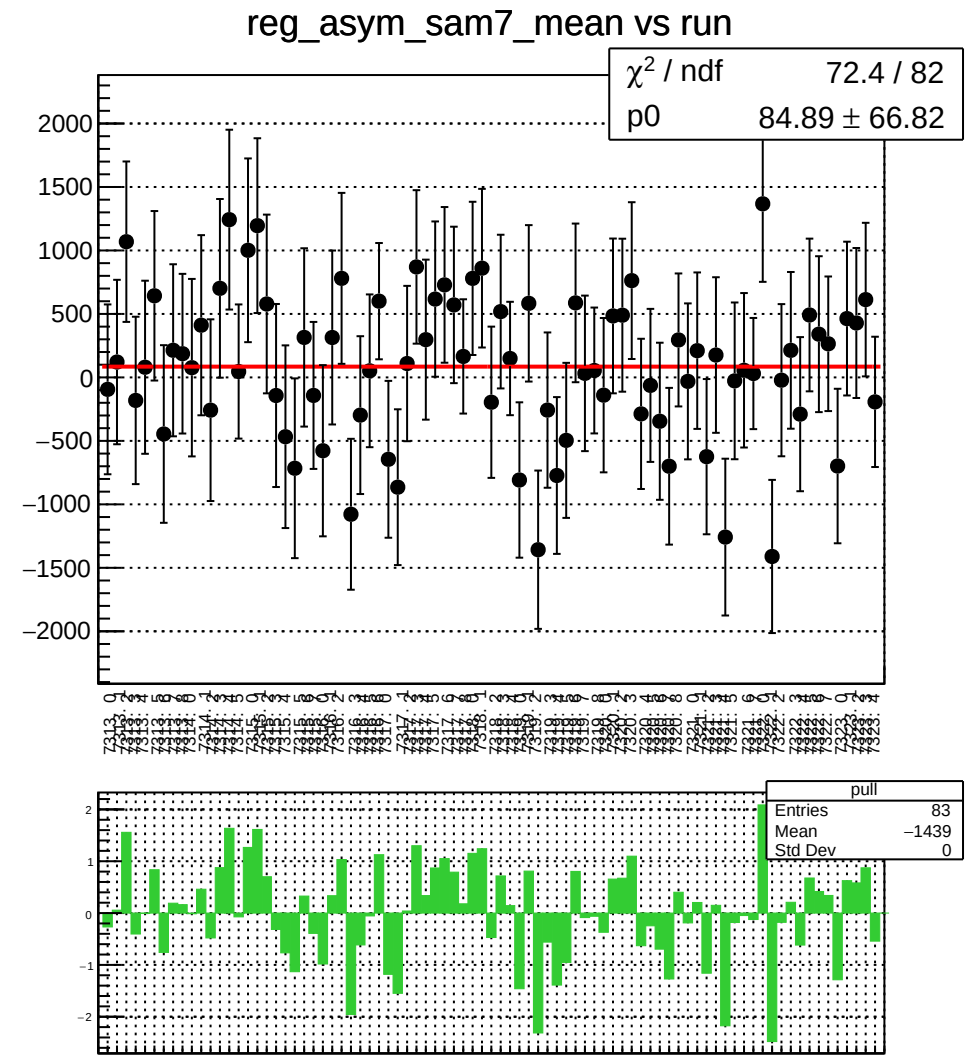

pull1D
Entries 83
Mean 0.01467
Std Dev 1.016

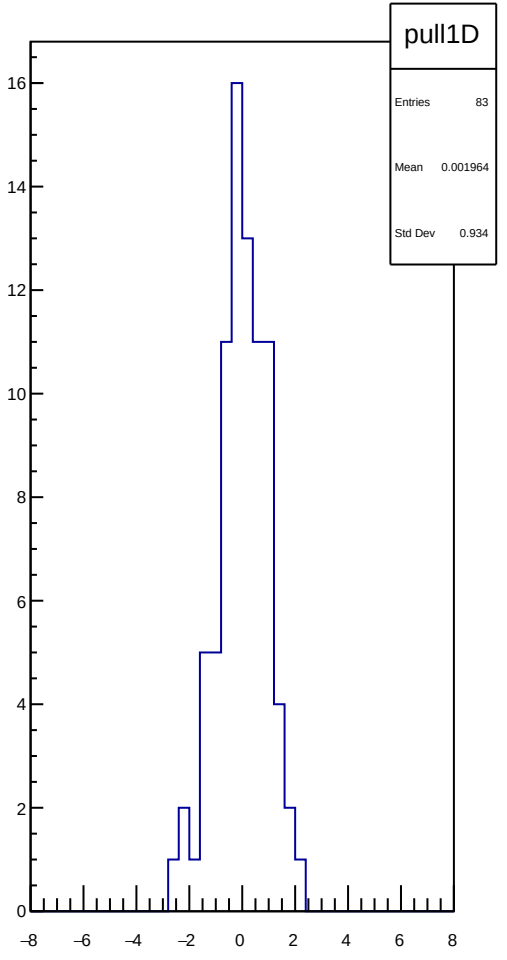

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.038e+04 / 82
p0 55.68 ± 0.04442
90
80
70
60
50
40

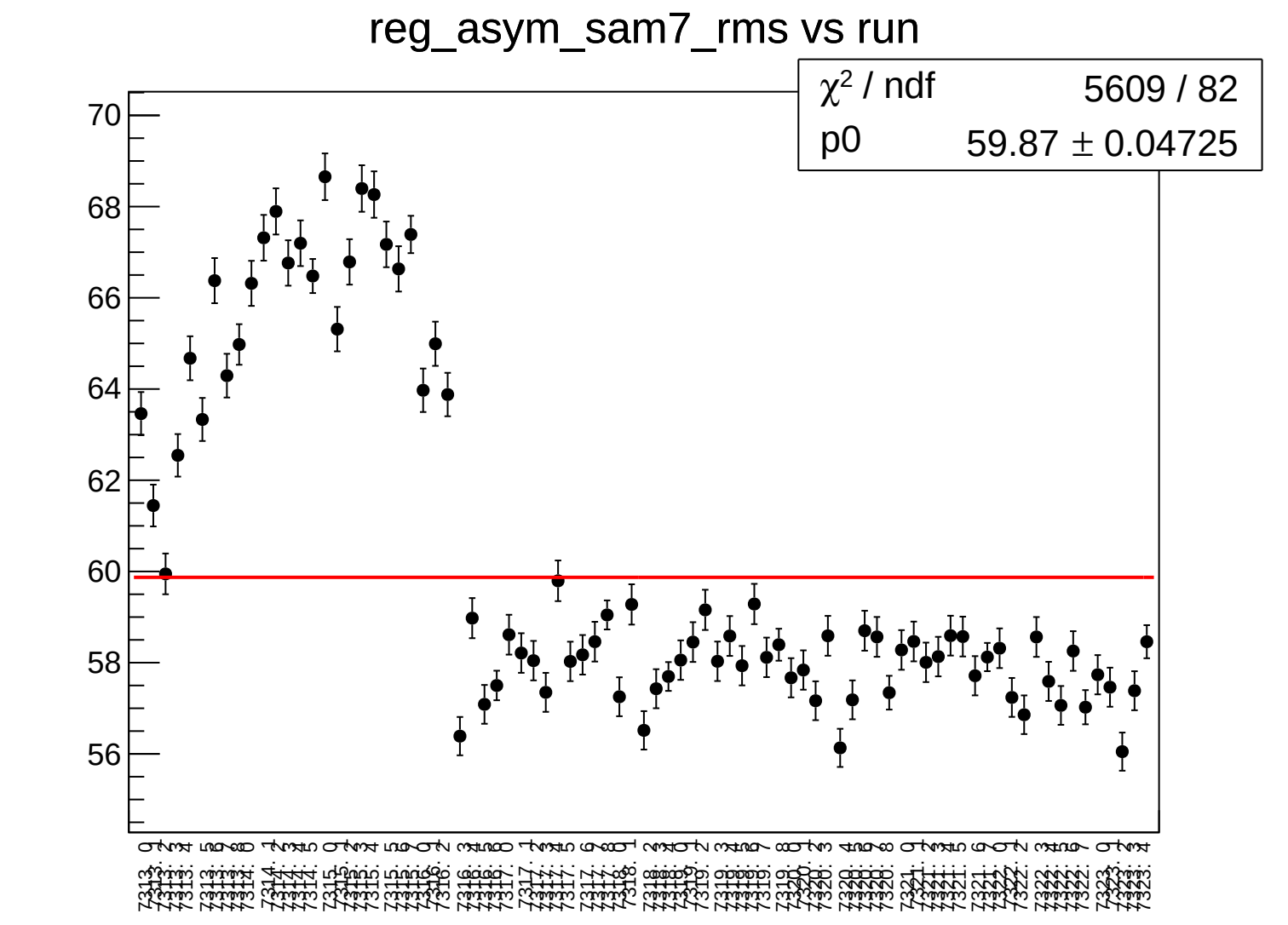

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 99.91 / 82
p0 1.676e−14 ± 2.488e−14
×10⁻¹²
pull
Entries 83
Mean 69.28
Std Dev 0

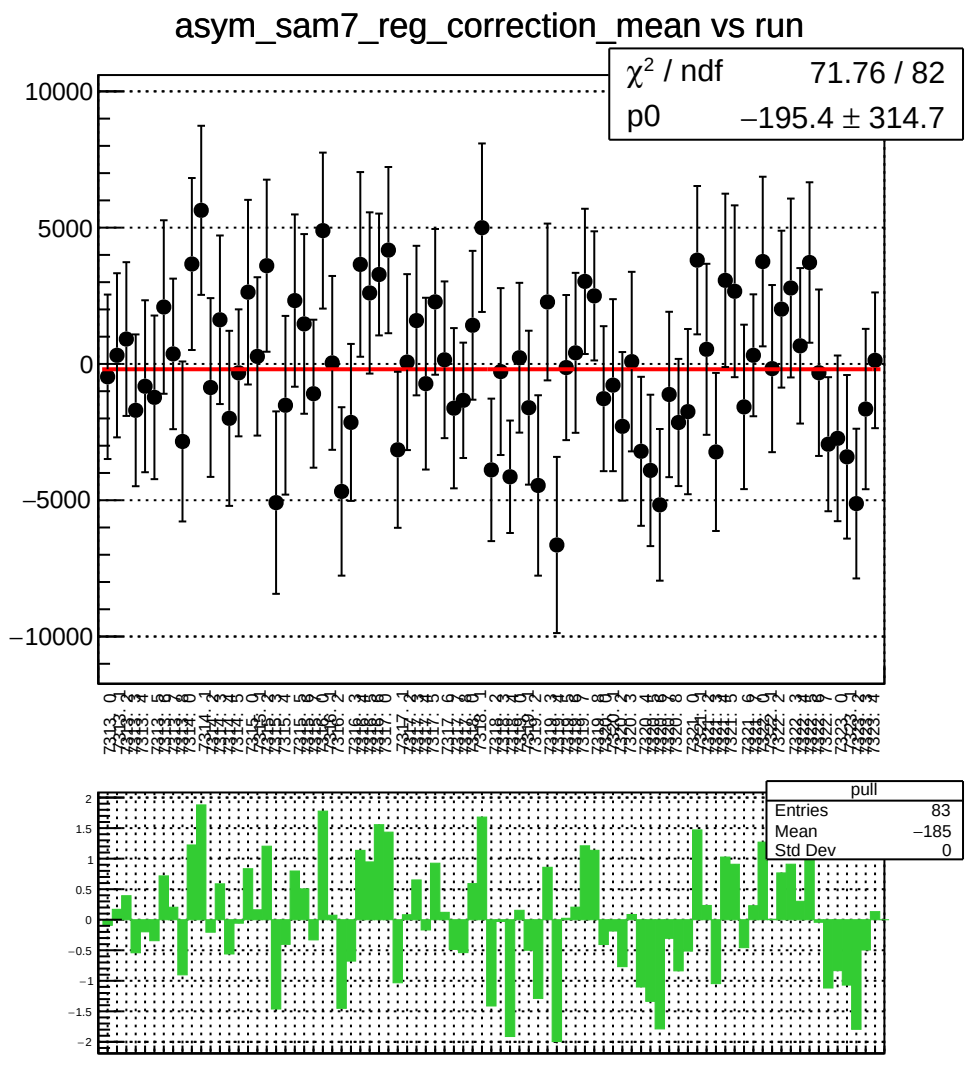

pull1D
Entries 83
Mean −0.04353
Std Dev 1.096

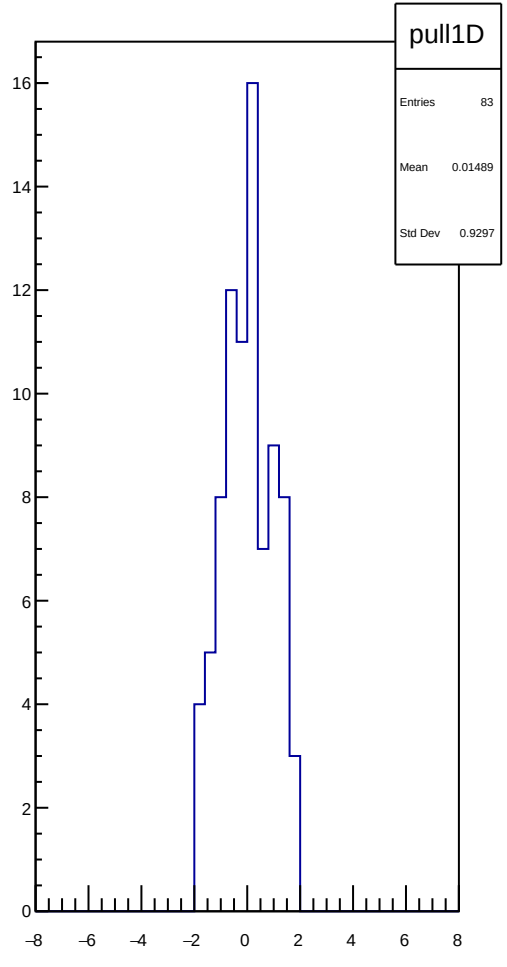

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.879e+05 / 82
p0 1.946e−11 ± 1.76e−14
×10⁻¹²
90
80
70
60
50
40
30
20
10

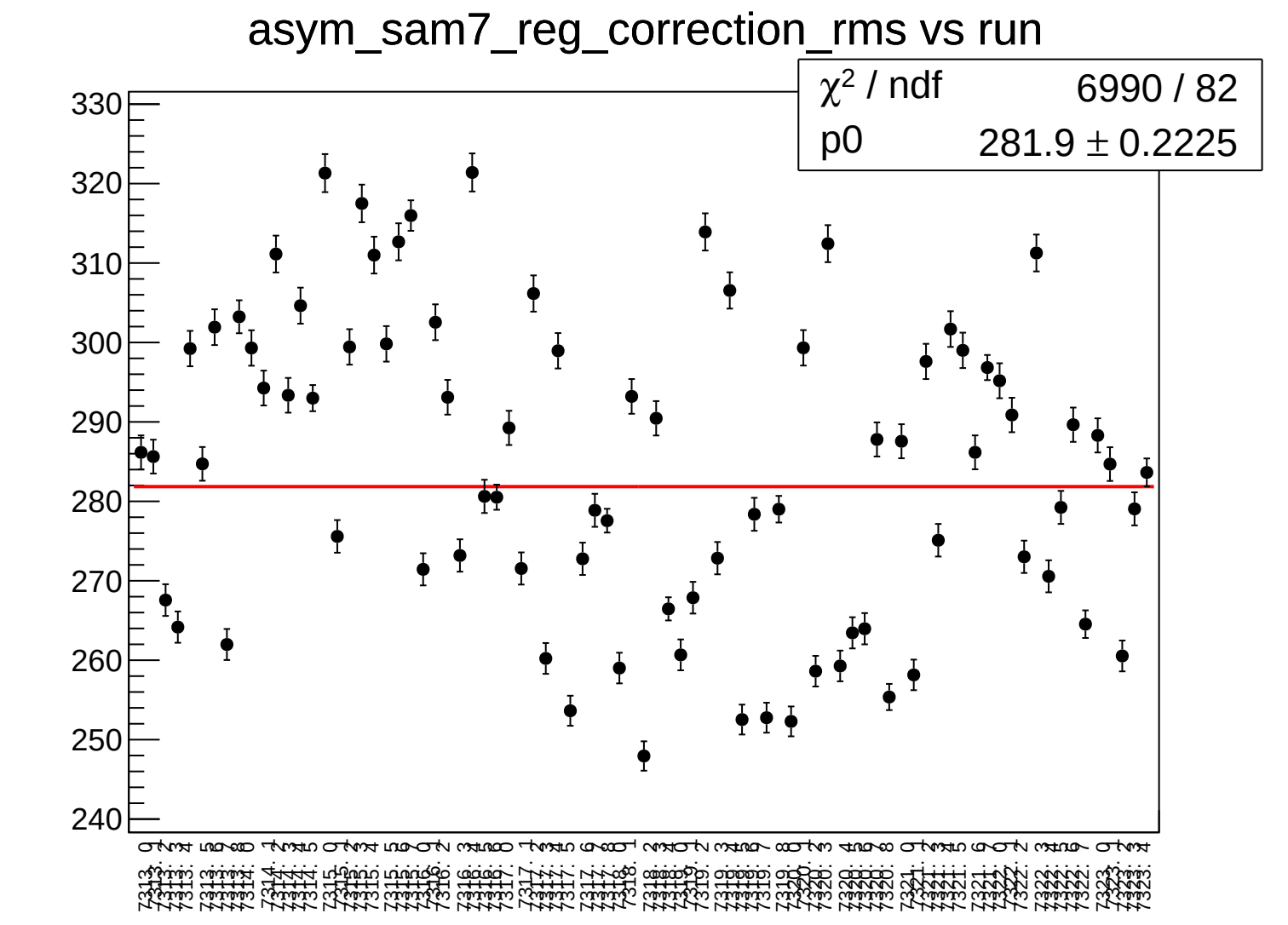

reg_asym_sam7_mean vs run
χ² / ndf 72.4 / 82
p0 84.89 ± 66.82
pull
Entries 83
Mean −1439
Std Dev 0

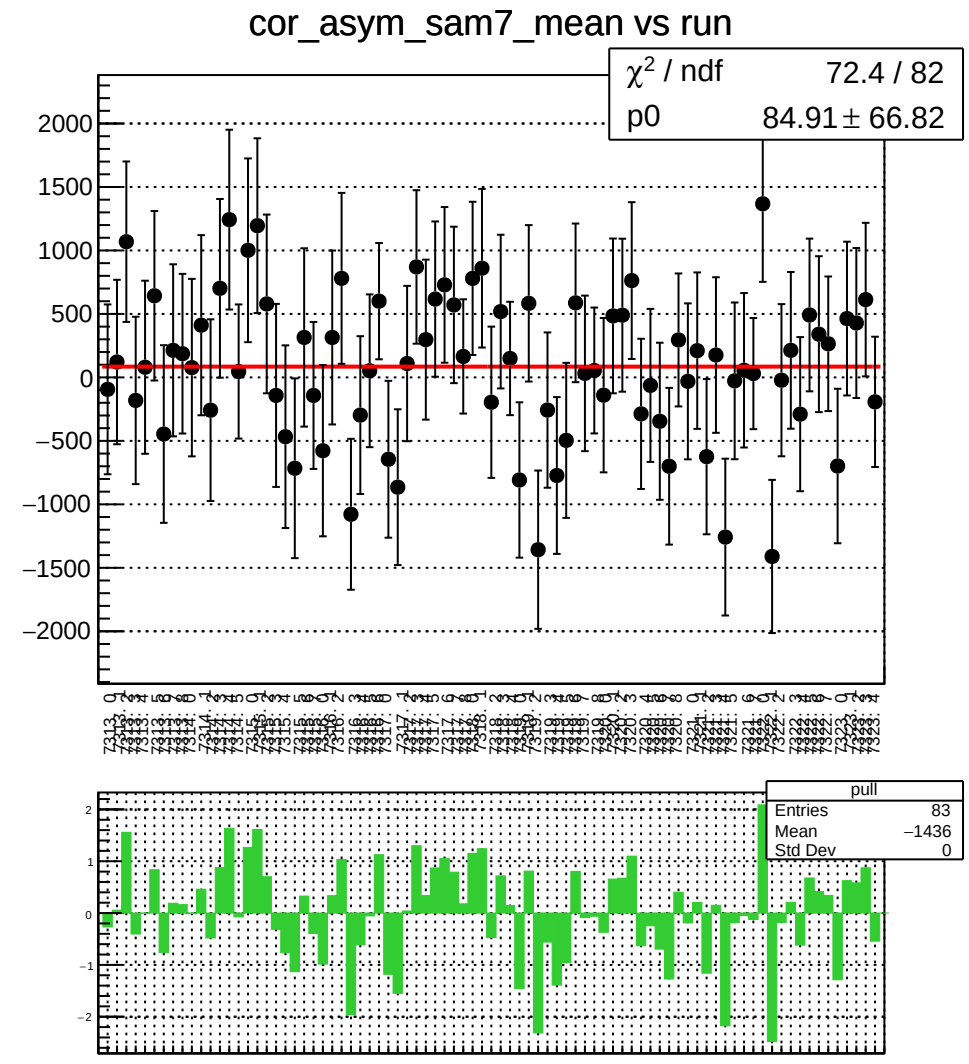

pull1D
Entries 83
Mean 0.001964
Std Dev 0.934

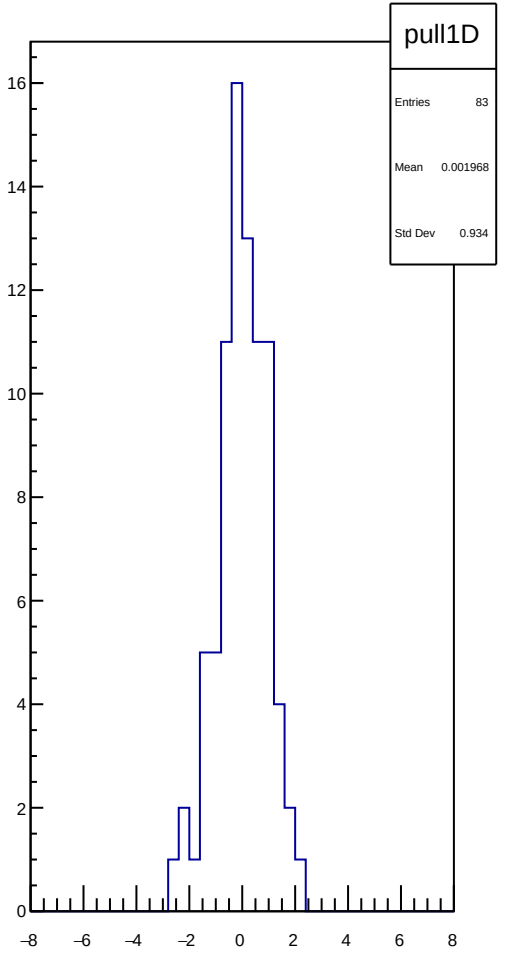

reg_asym_sam7_rms vs run
χ^2 / ndf 5609 / 82
p0 59.87 ± 0.04725
70
68
66
64
62
60
58
56

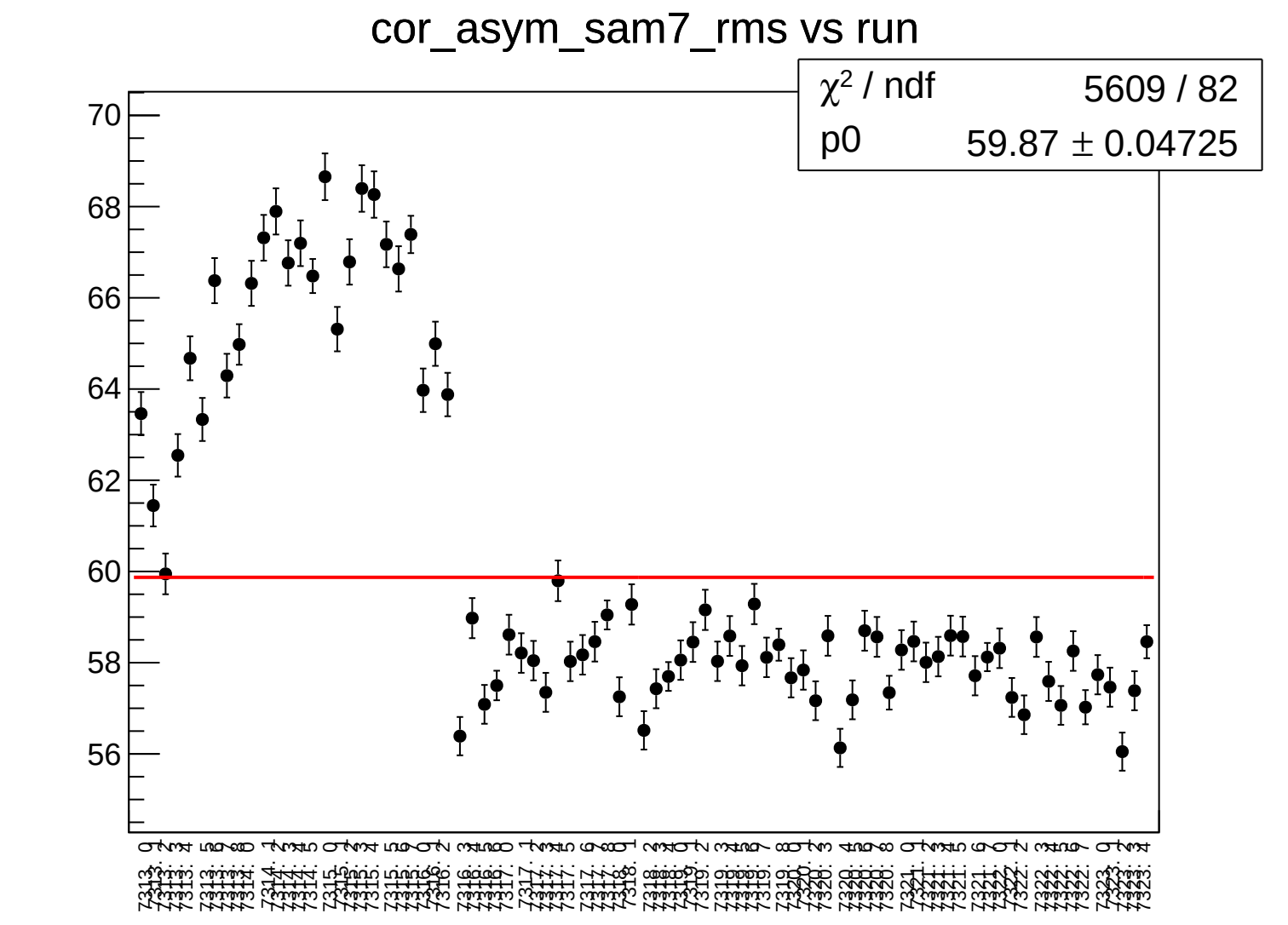

asym_sam7_reg_correction_mean vs run
χ² / ndf 71.76 / 82
p0 −195.4 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −185
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

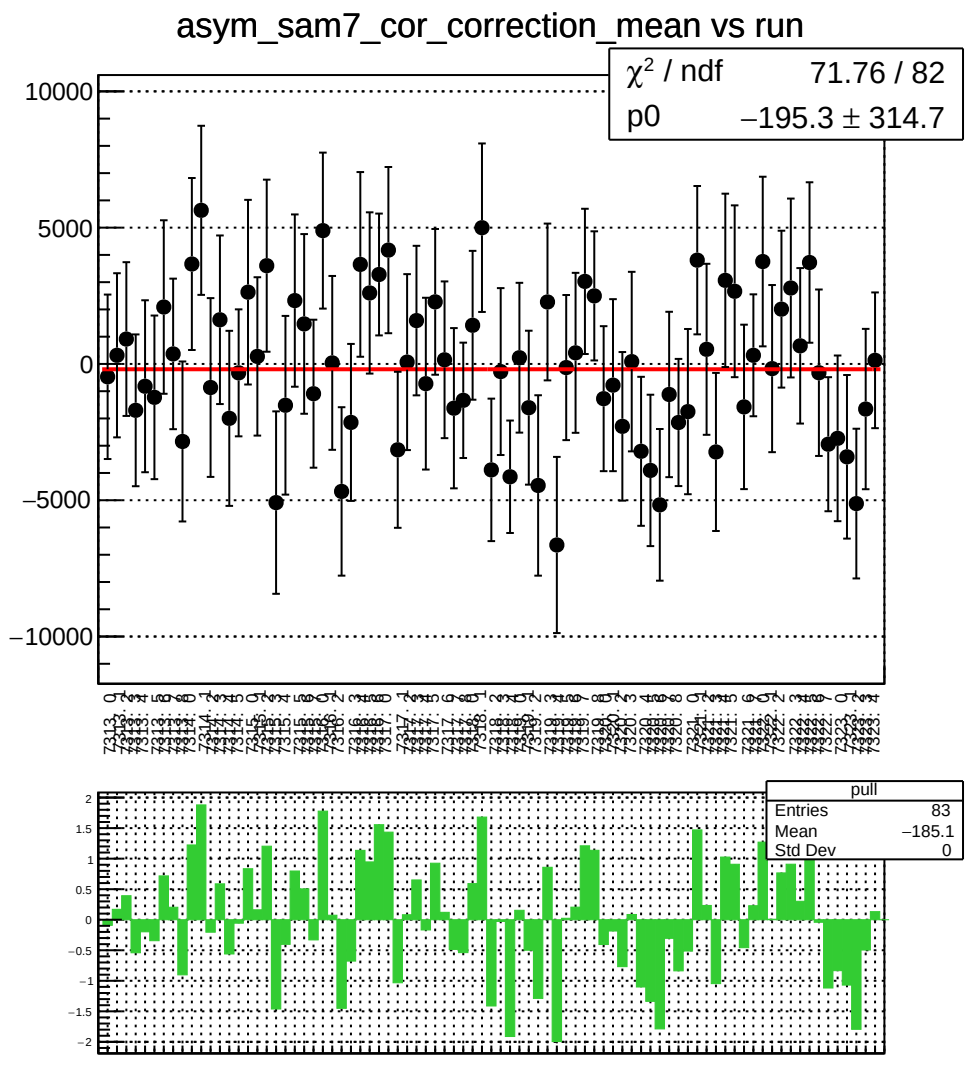

pull1D
Entries 83
Mean 0.01489
Std Dev 0.9297
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

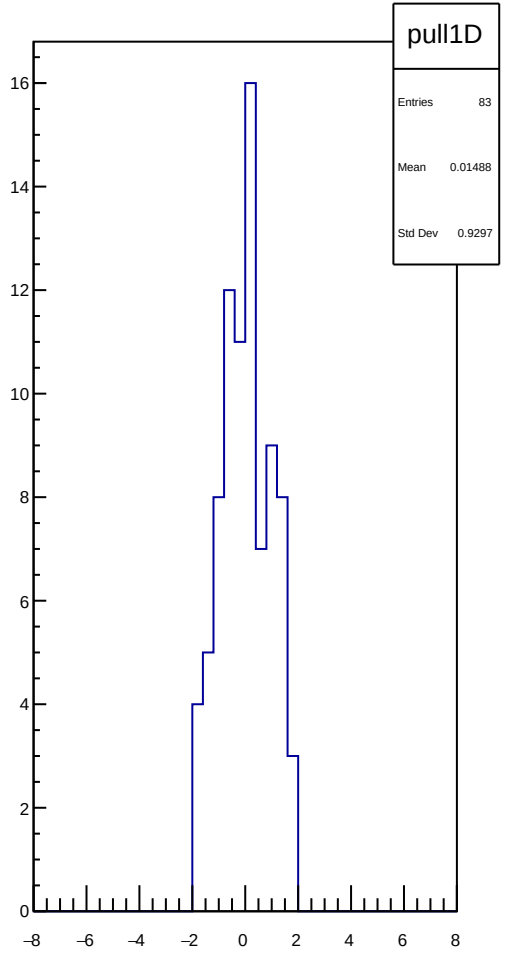

asym_sam7_reg_correction_rms vs run
χ² / ndf 6990 / 82
p0 281.9 ± 0.2225
330
320
310
300
290
280
270
260
250
240

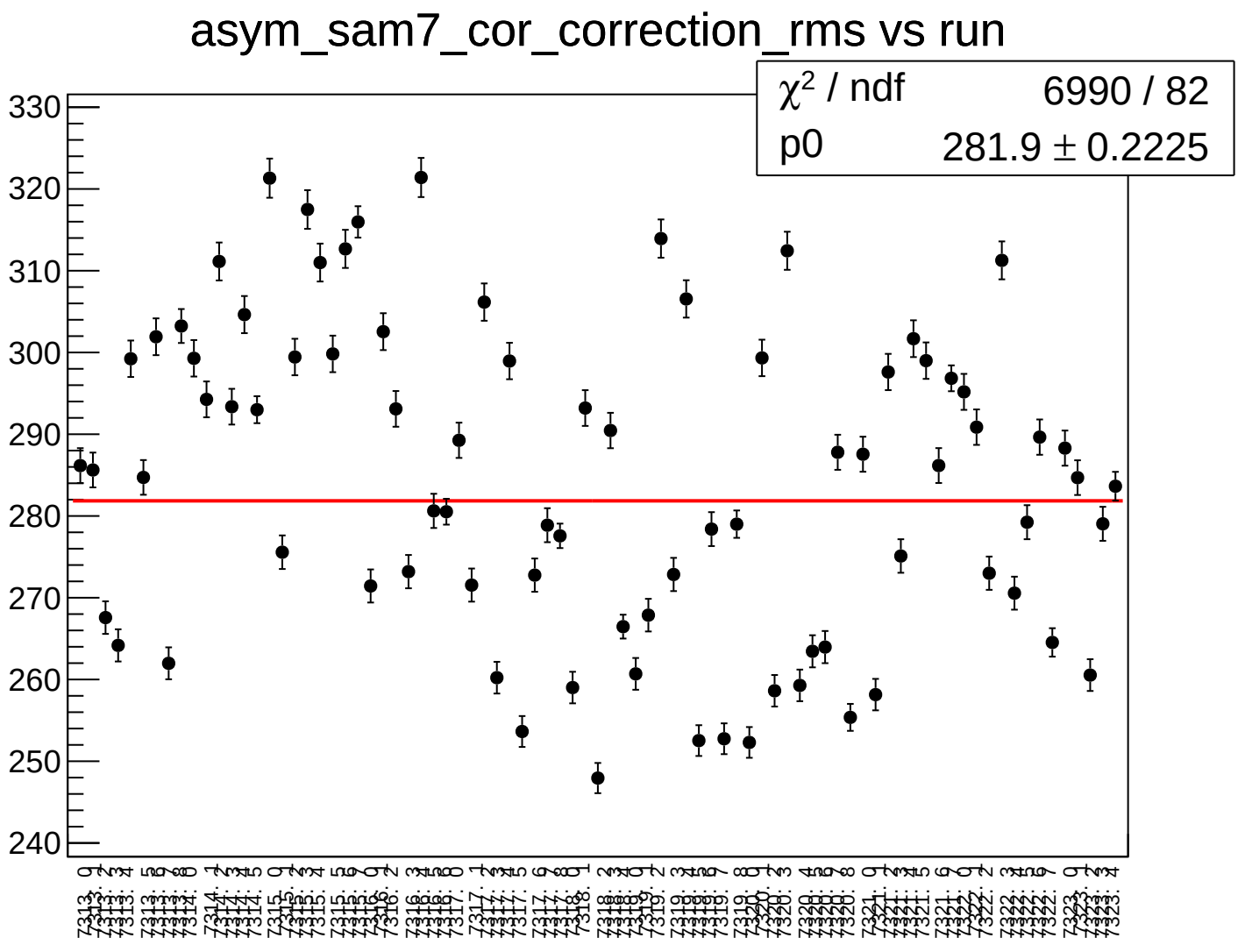

cor_asym_sam7_mean vs run
χ² / ndf 72.4 / 82
p0 84.91 ± 66.82
pull
Entries 83
Mean −1436
Std Dev 0

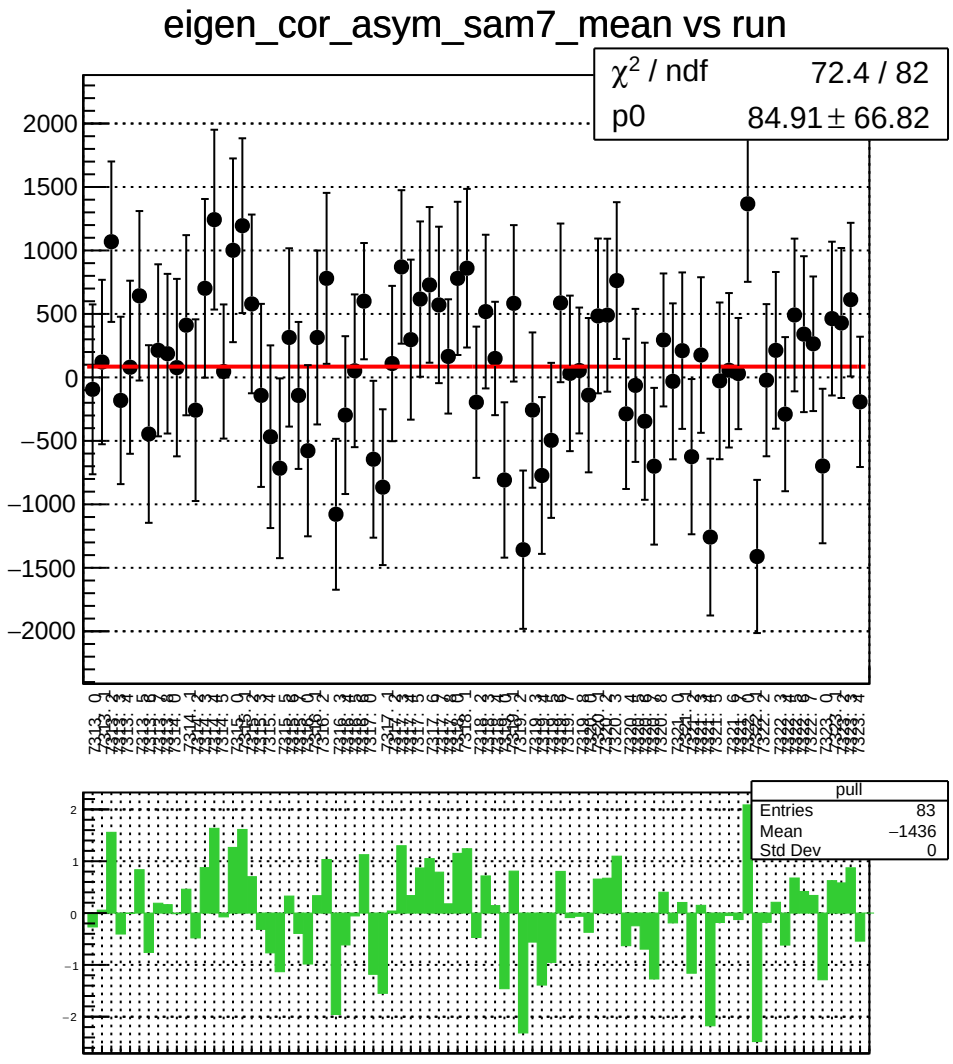

pull1D
Entries 83
Mean 0.001968
Std Dev 0.934

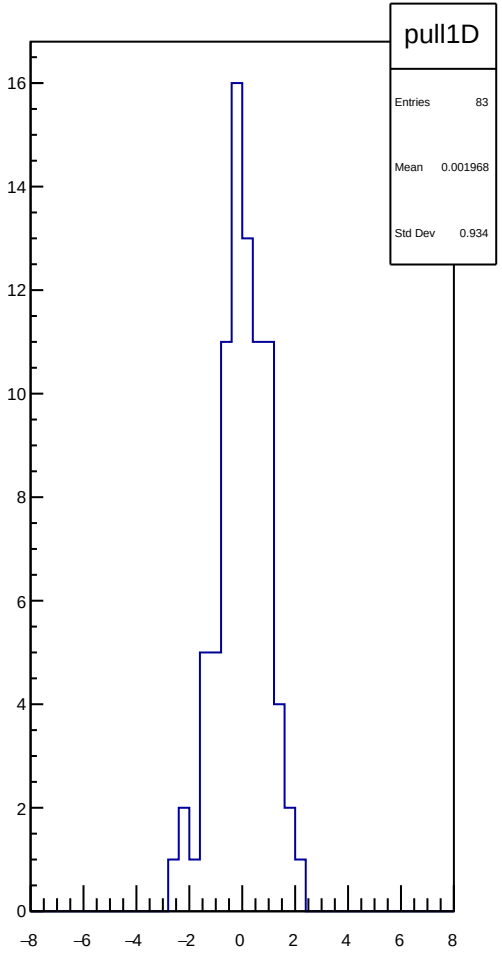

cor_asym_sam7_rms vs run
χ^2 / ndf 5609 / 82
p0 59.87 ± 0.04725
70
68
66
64
62
60
58
56

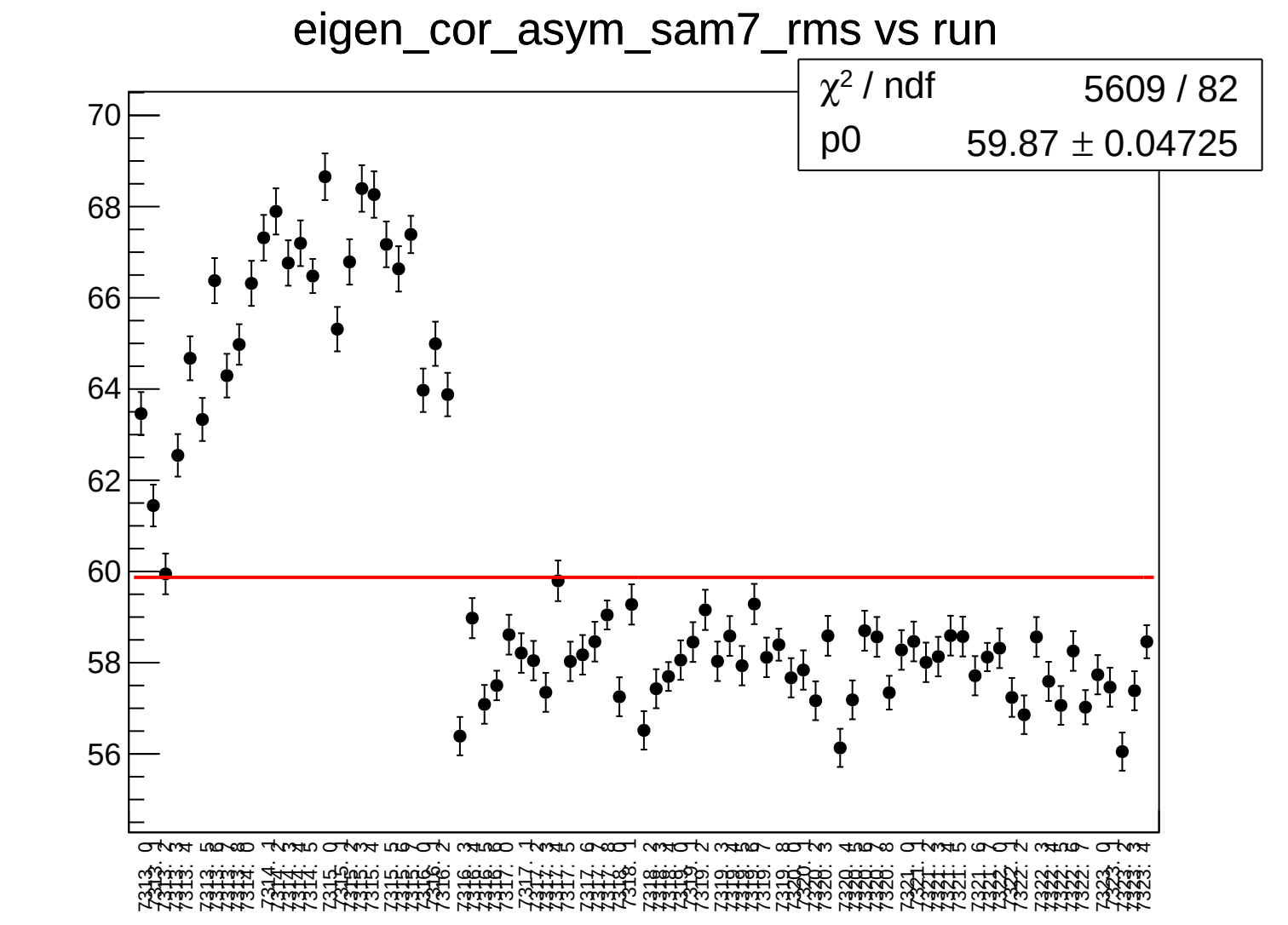

asym_sam7_cor_correction_mean vs run
χ² / ndf 71.76 / 82
p0 −195.3 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −185.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

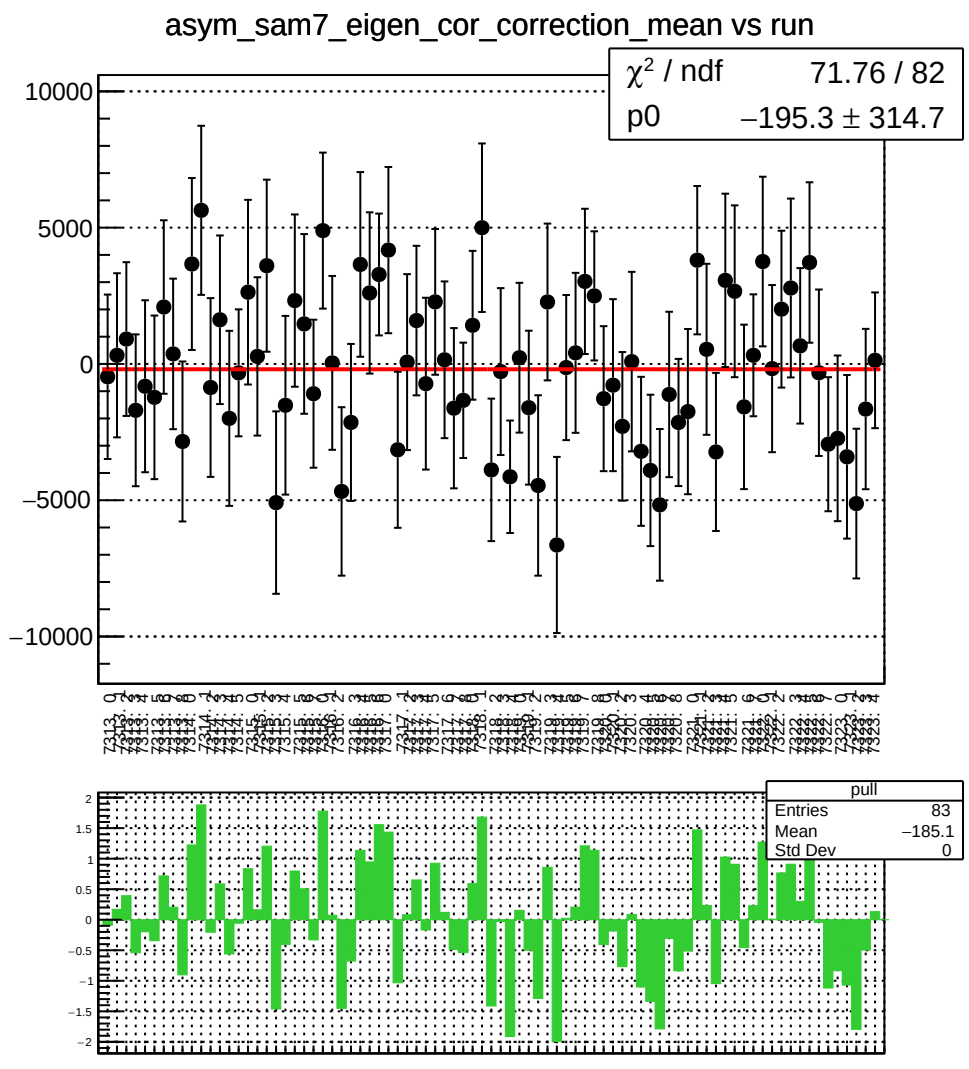

pull1D
Entries 83
Mean 0.01488
Std Dev 0.9297
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

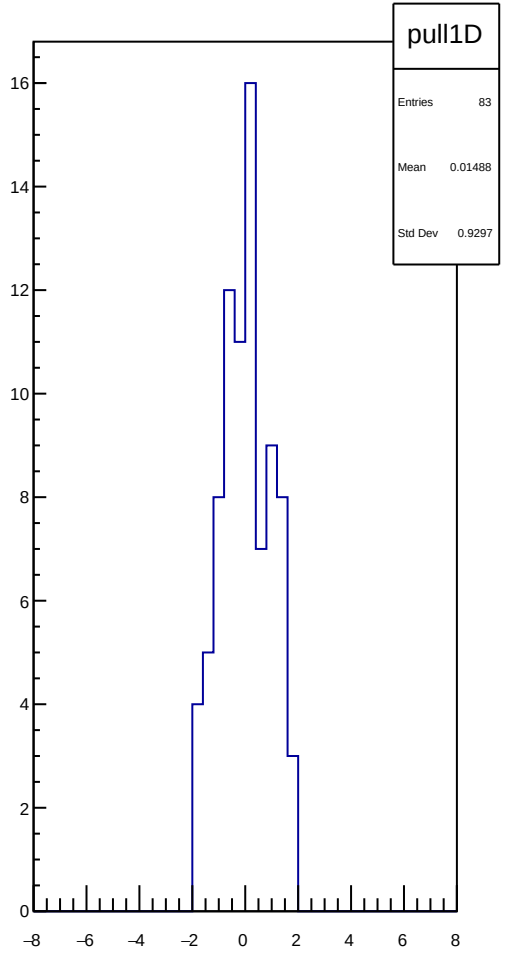

asym_sam7_cor_correction_rms vs run
χ² / ndf 6990 / 82
p0 281.9 ± 0.2225
330
320
310
300
290
280
270
260
250
240

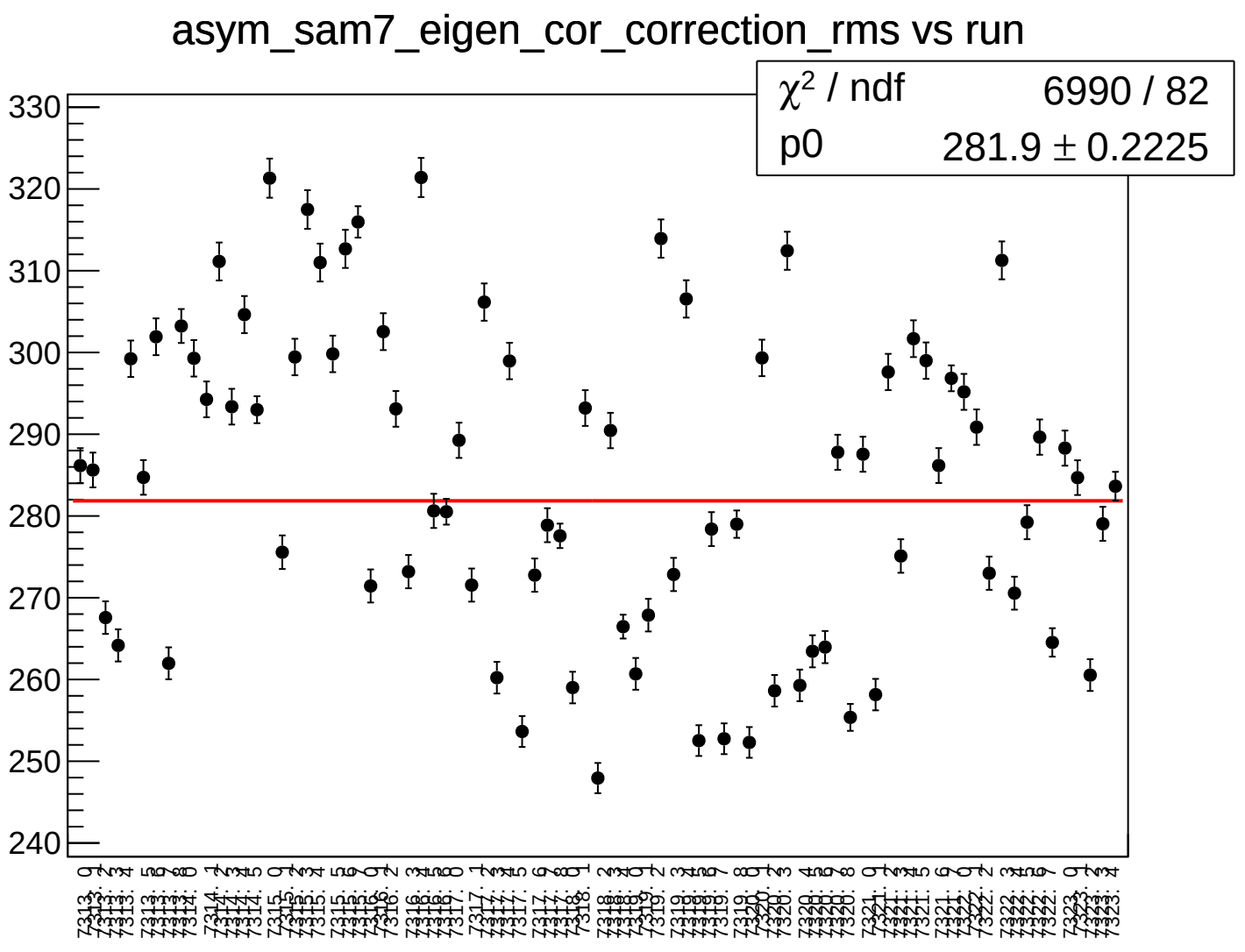

eigen_cor_asym_sam7_mean vs run
χ² / ndf 72.4 / 82
p0 84.91 ± 66.82
pull
Entries 83
Mean −1436
Std Dev 0

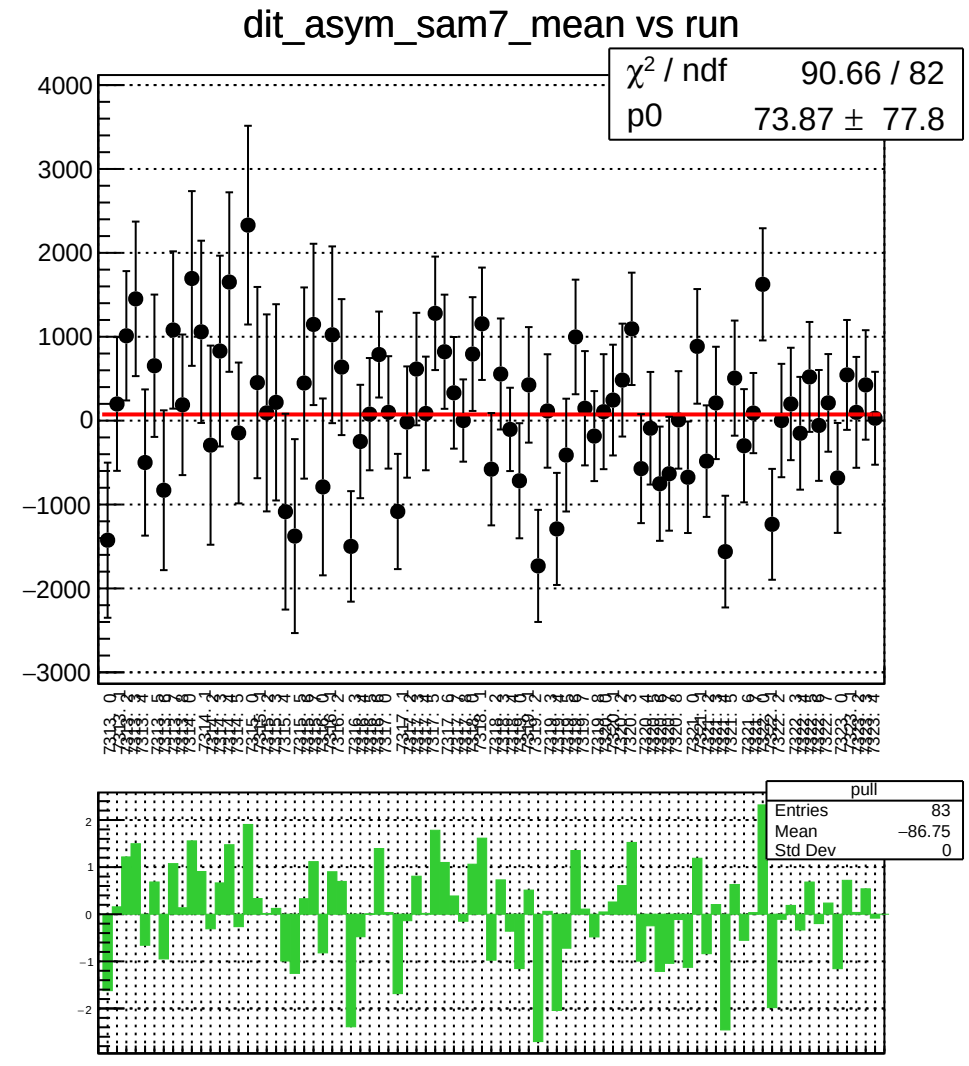

pull1D
Entries 83
Mean 0.001968
Std Dev 0.934

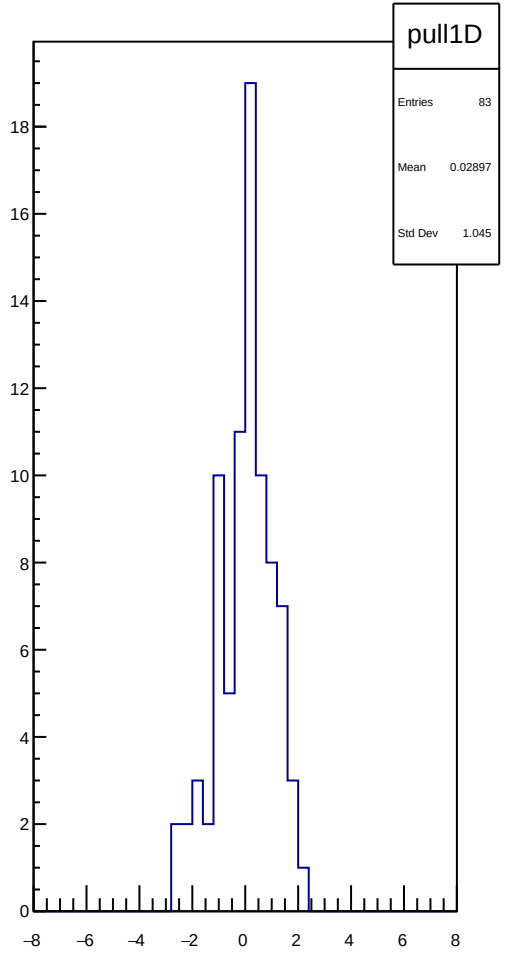

eigen_cor_asym_sam7_rms vs run
χ² / ndf 5609 / 82
p0 59.87 ± 0.04725
70
68
66
64
62
60
58
56

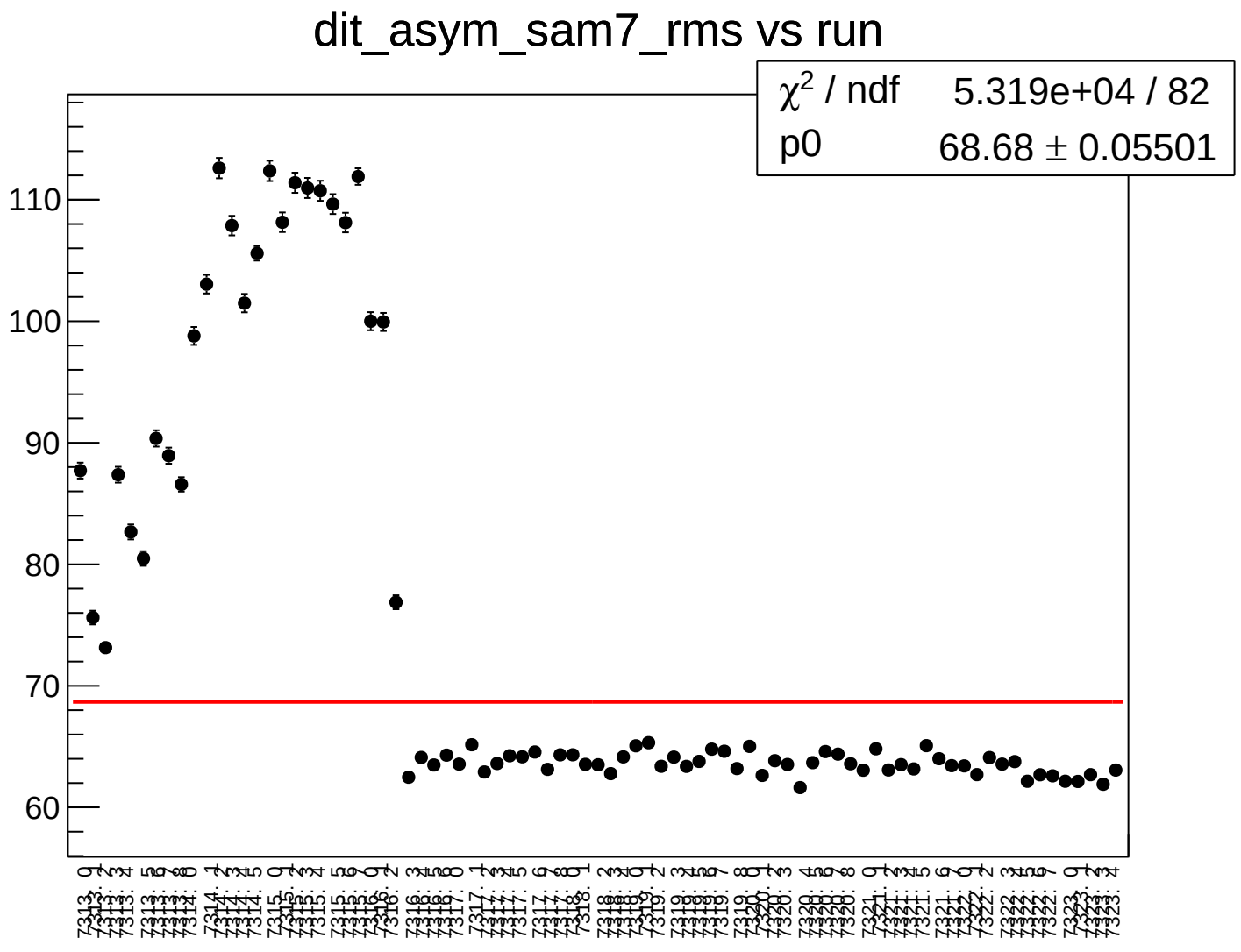

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 71.76 / 82
p0 −195.3 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −185.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

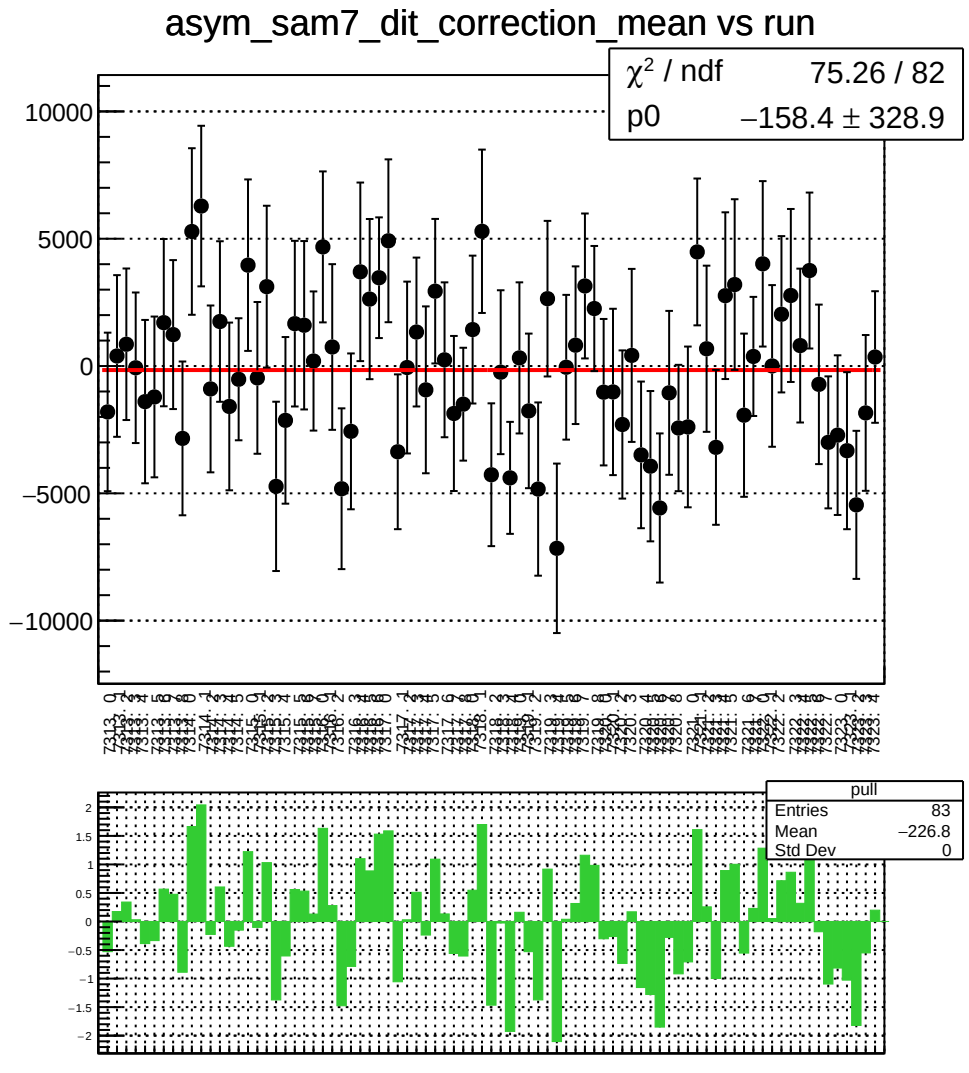

pull1D
Entries 83
Mean 0.01488
Std Dev 0.9297
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

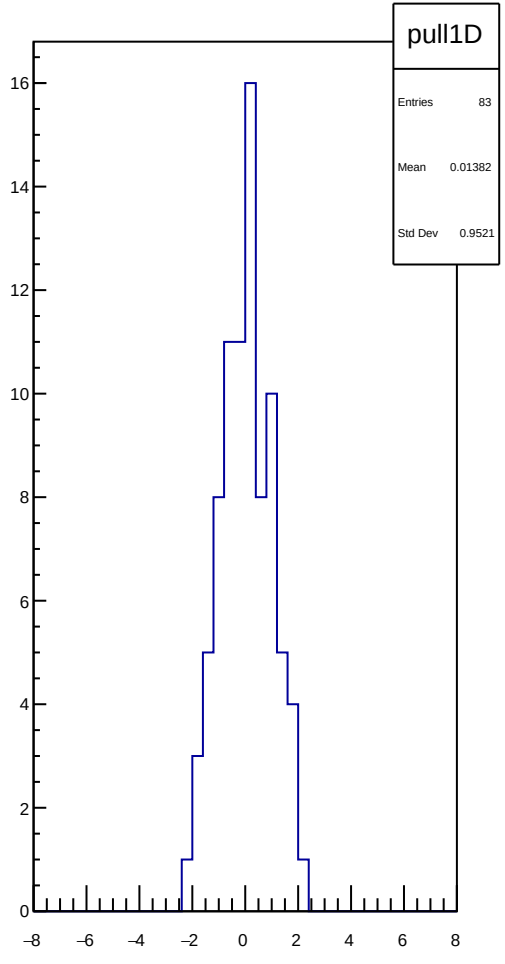

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 6990 / 82
p0 281.9 ± 0.2225
330
320
310
300
290
280
270
260
250
240

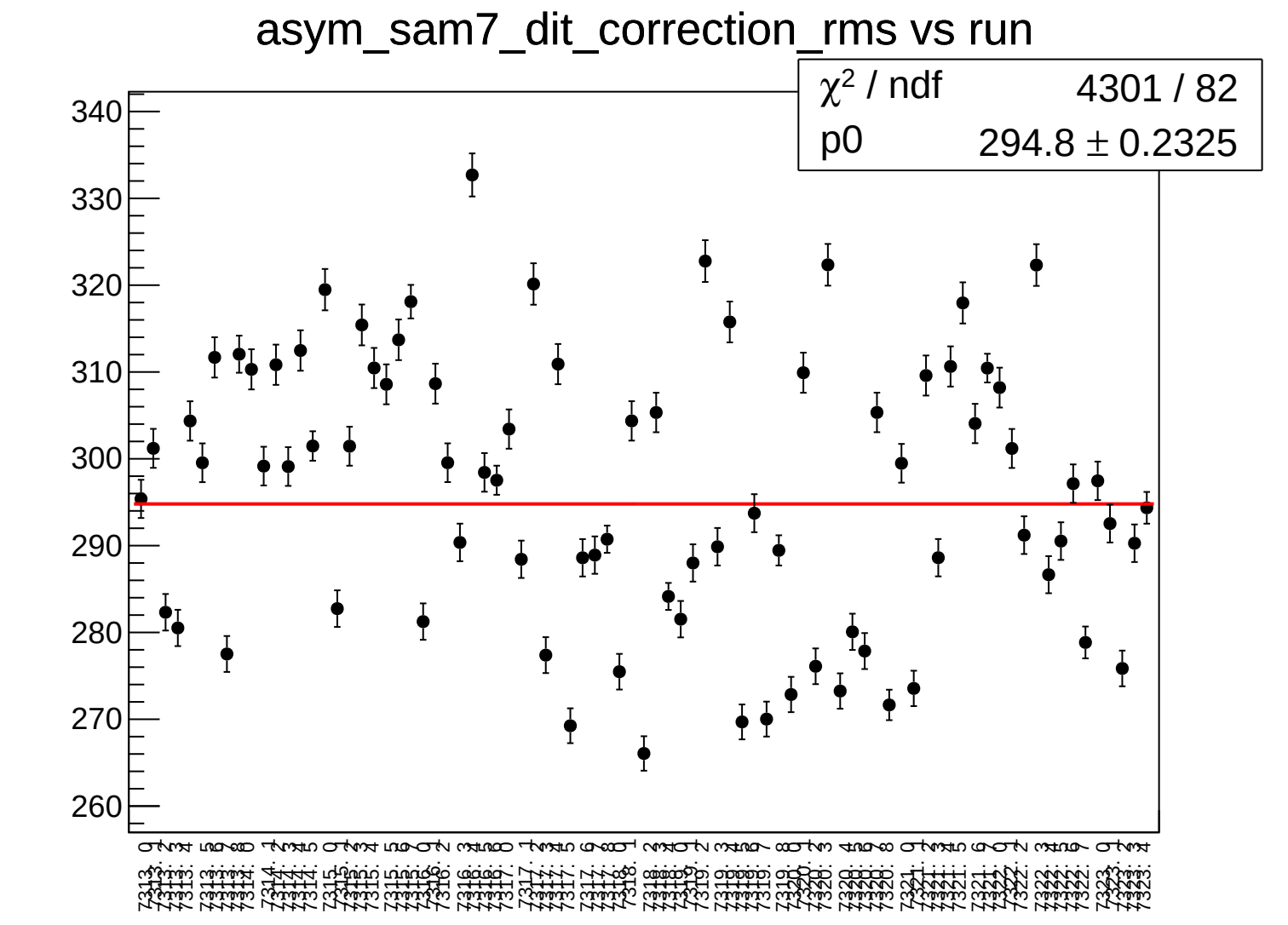

dit_asym_sam7_mean vs run
χ² / ndf 90.66 / 82
p0 73.87 ± 77.8
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −86.75
Std Dev 0
2
1
0
−1
−2

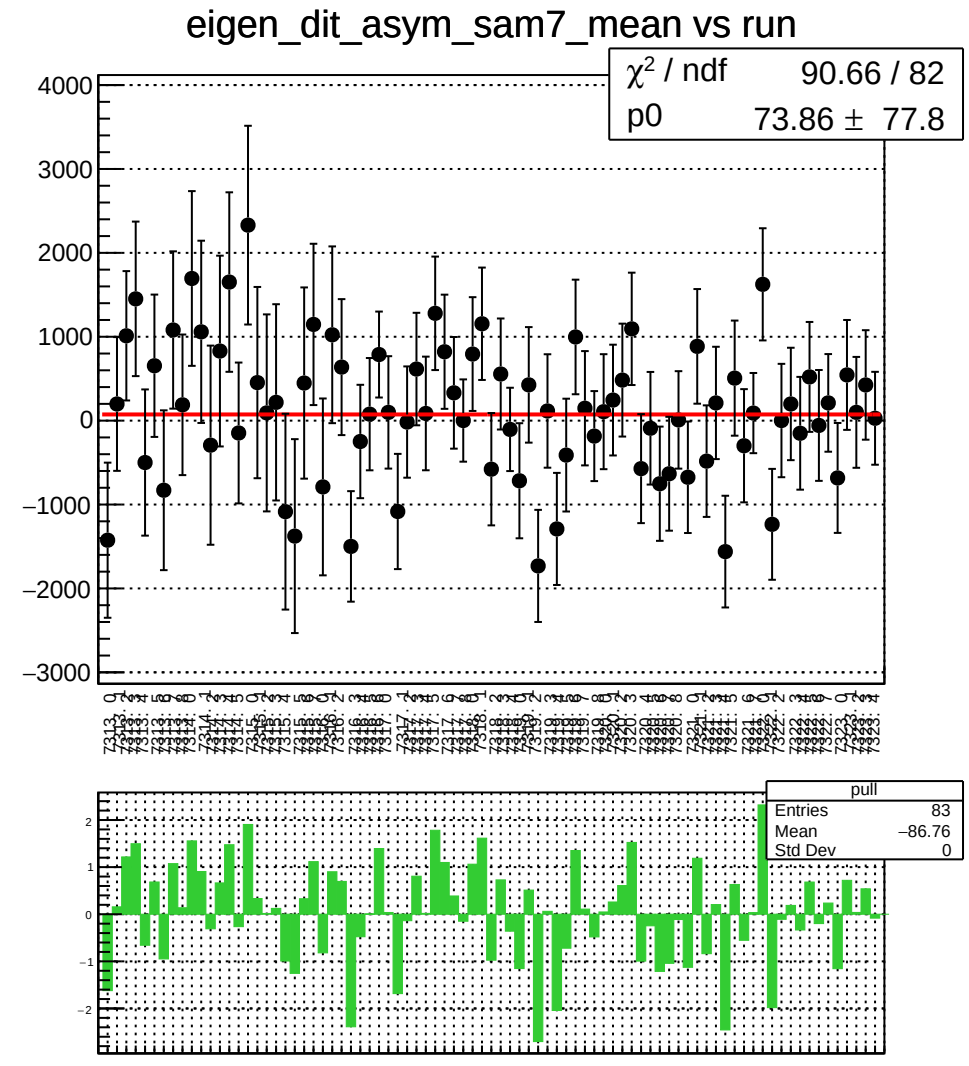

pull1D
Entries 83
Mean 0.02897
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

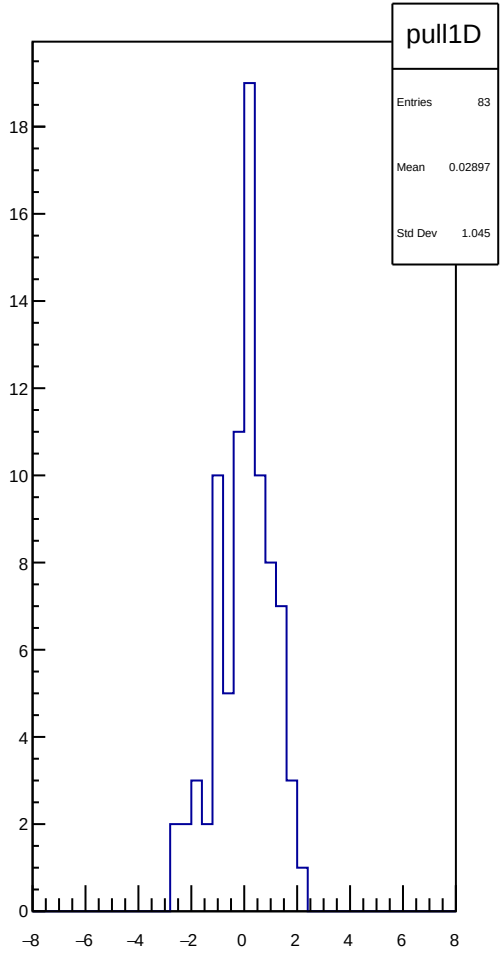

dit_asym_sam7_rms vs run
χ^2 / ndf 5.319e+04 / 82
p0 68.68 ± 0.05501
110
100
90
80
70
60

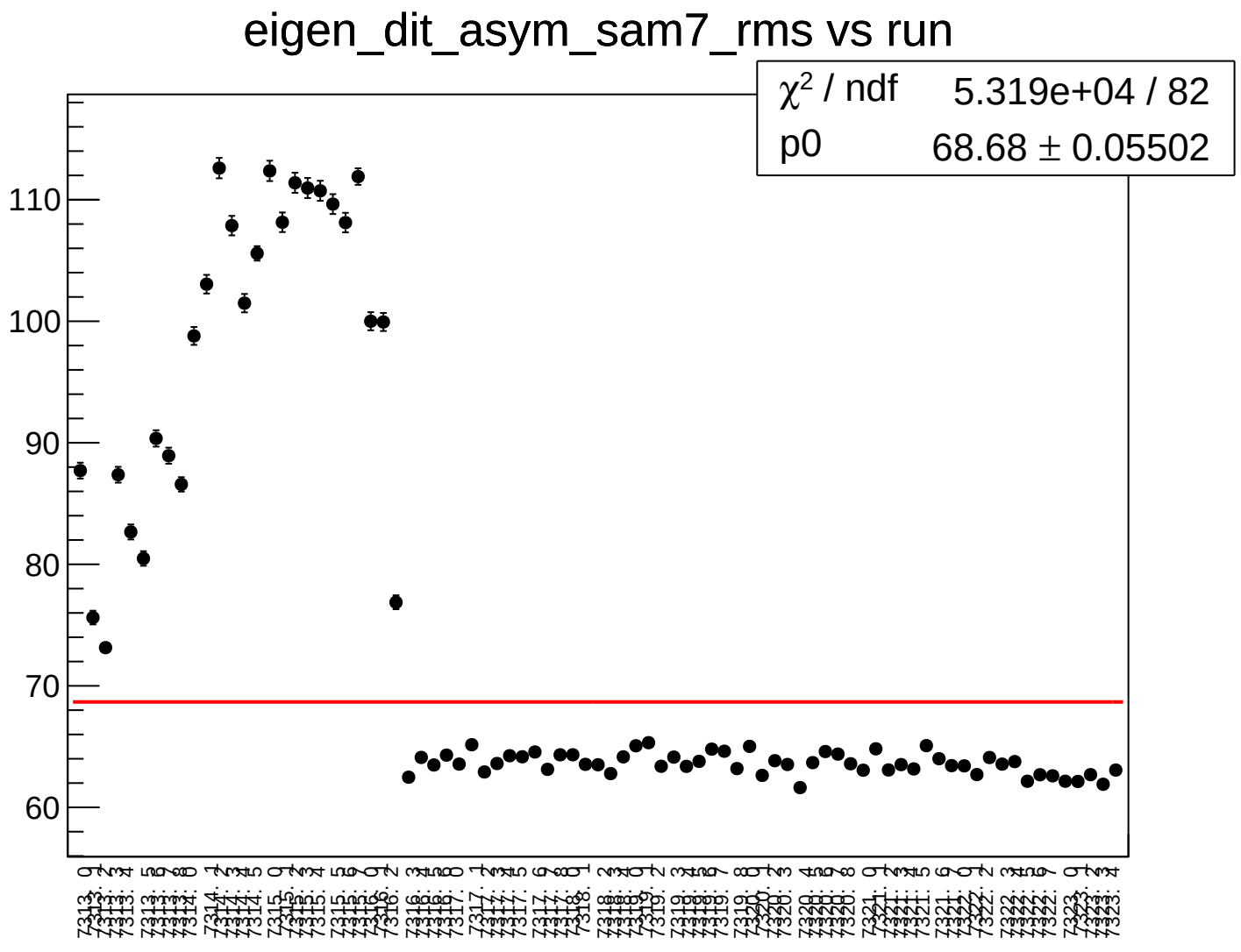

asym_sam7_dit_correction_mean vs run
χ^2 / ndf 75.26 / 82
p0 −158.4 ± 328.9
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −226.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

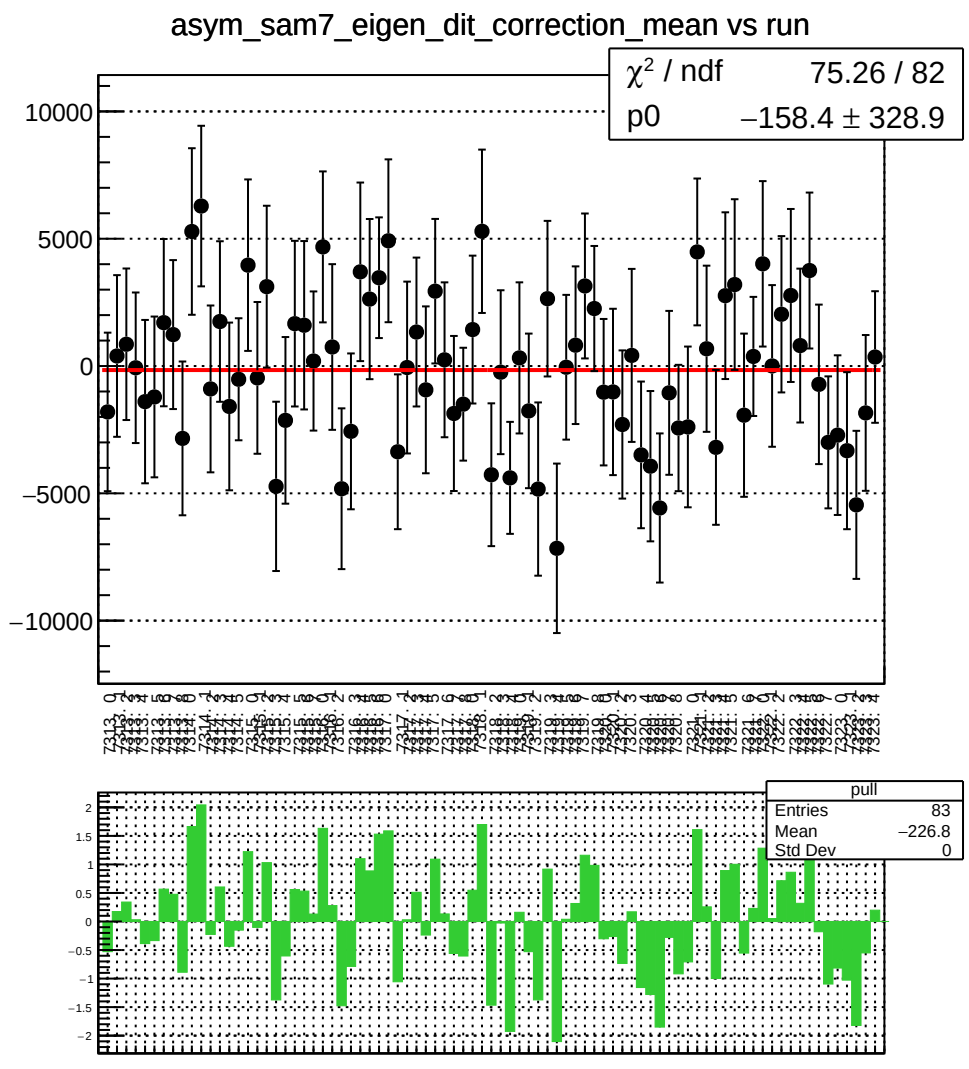

pull1D
Entries 83
Mean 0.01382
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

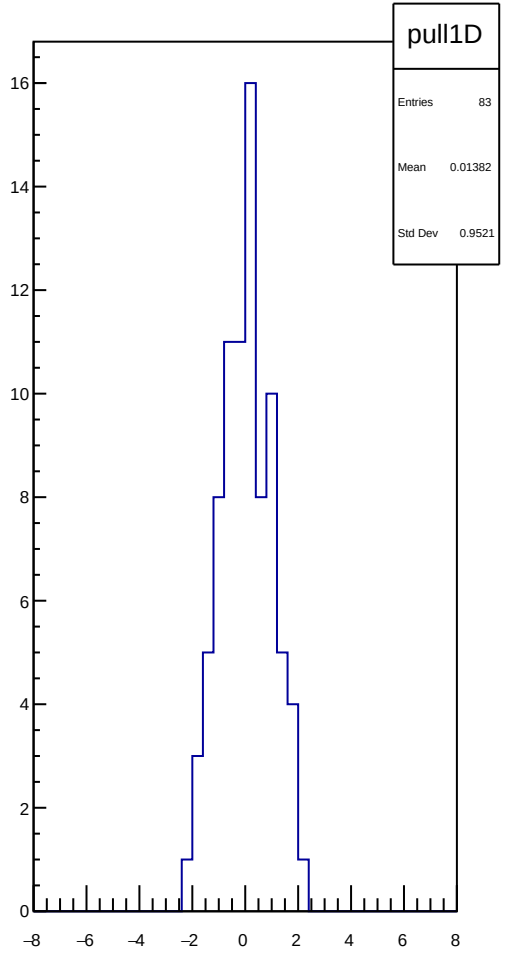

asym_sam7_dit_correction_rms vs run
χ² / ndf 4301 / 82
p0 294.8 ± 0.2325
340
330
320
310
300
290
280
270
260

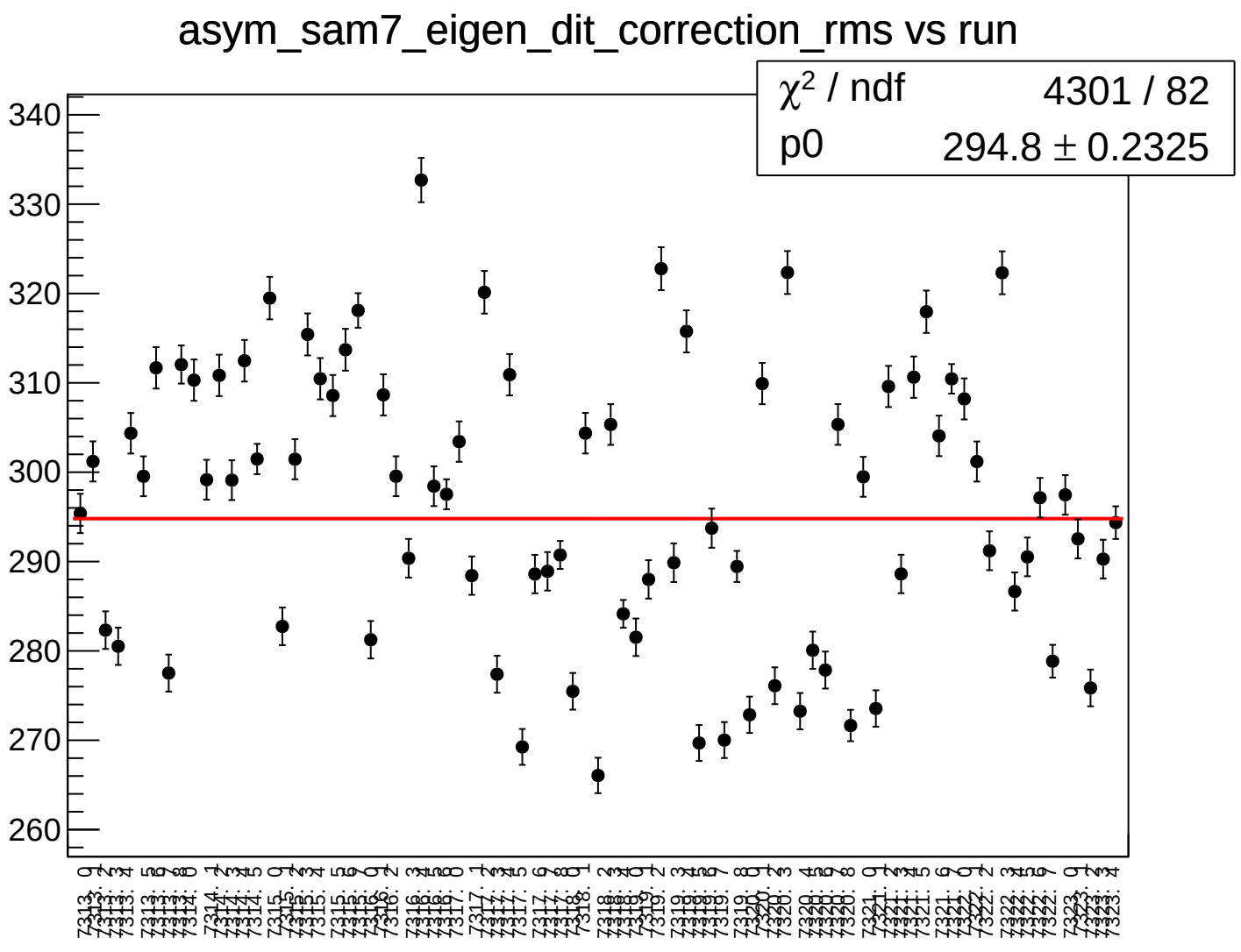

eigen_dit_asym_sam7_mean vs run
χ² / ndf 90.66 / 82
p0 73.86 ± 77.8
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −86.76
Std Dev 0
2
1
0
−1
−2

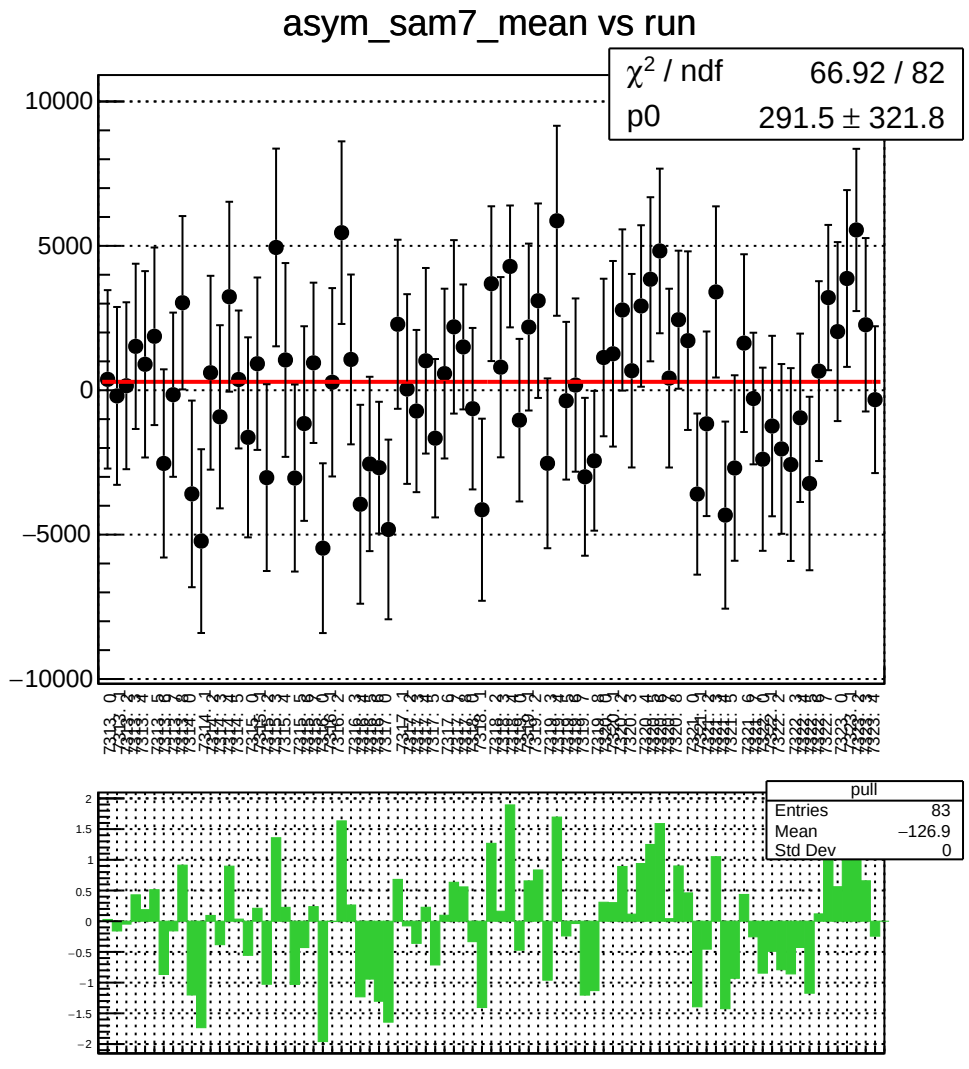

pull1D
Entries 83
Mean 0.02897
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

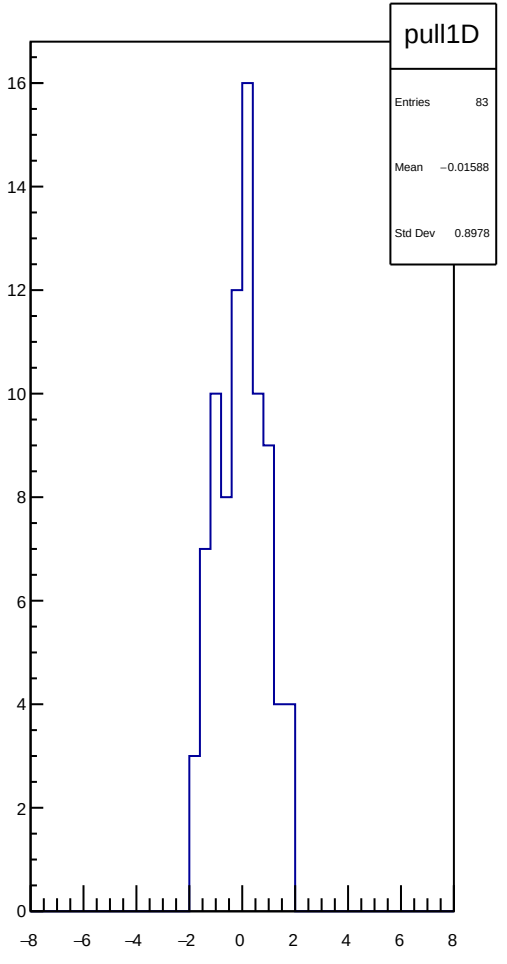

eigen_dit_asym_sam7_rms vs run
χ² / ndf 5.319e+04 / 82
p0 68.68 ± 0.05502
110
100
90
80
70
60

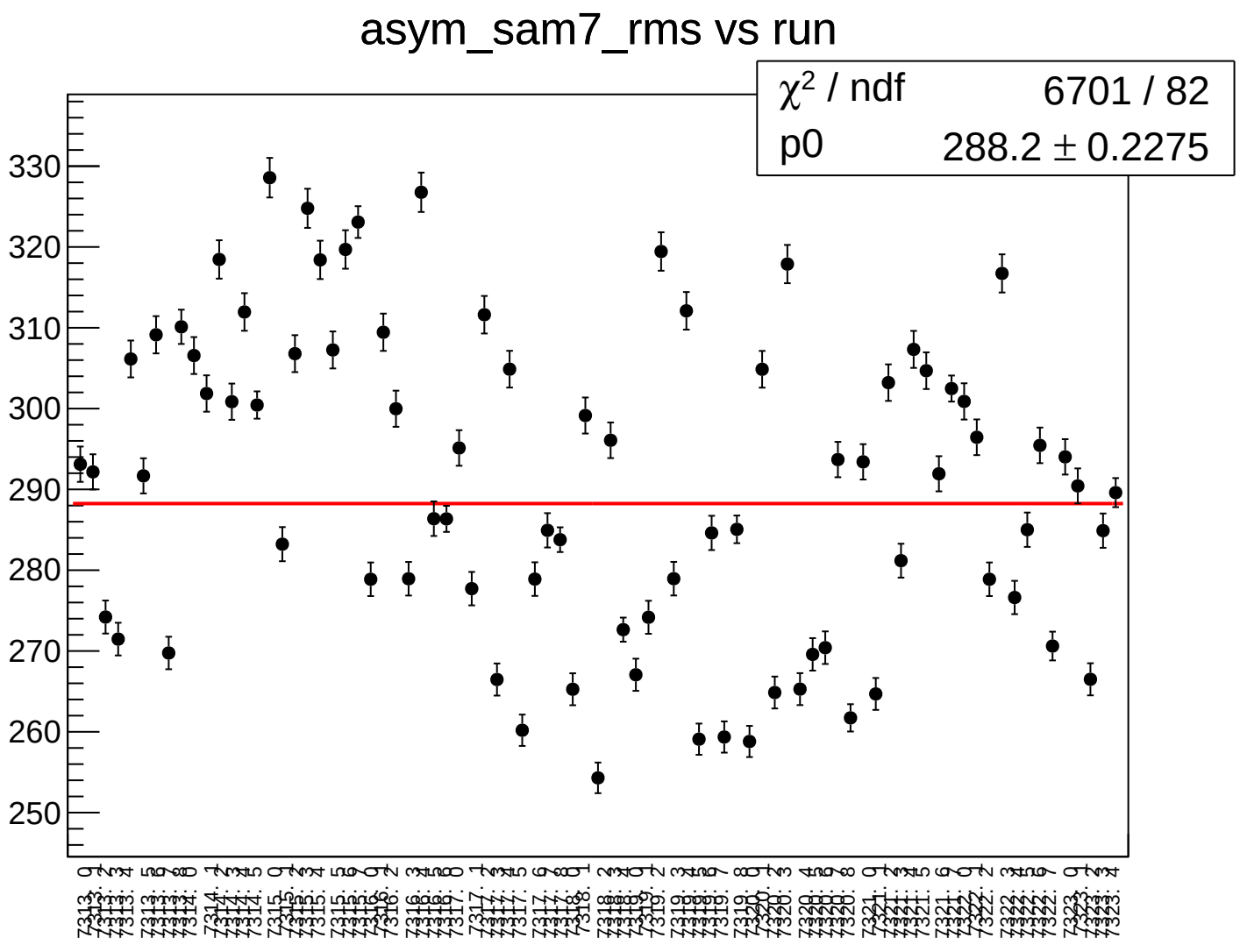

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 75.26 / 82
p0 −158.4 ± 328.9
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −226.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

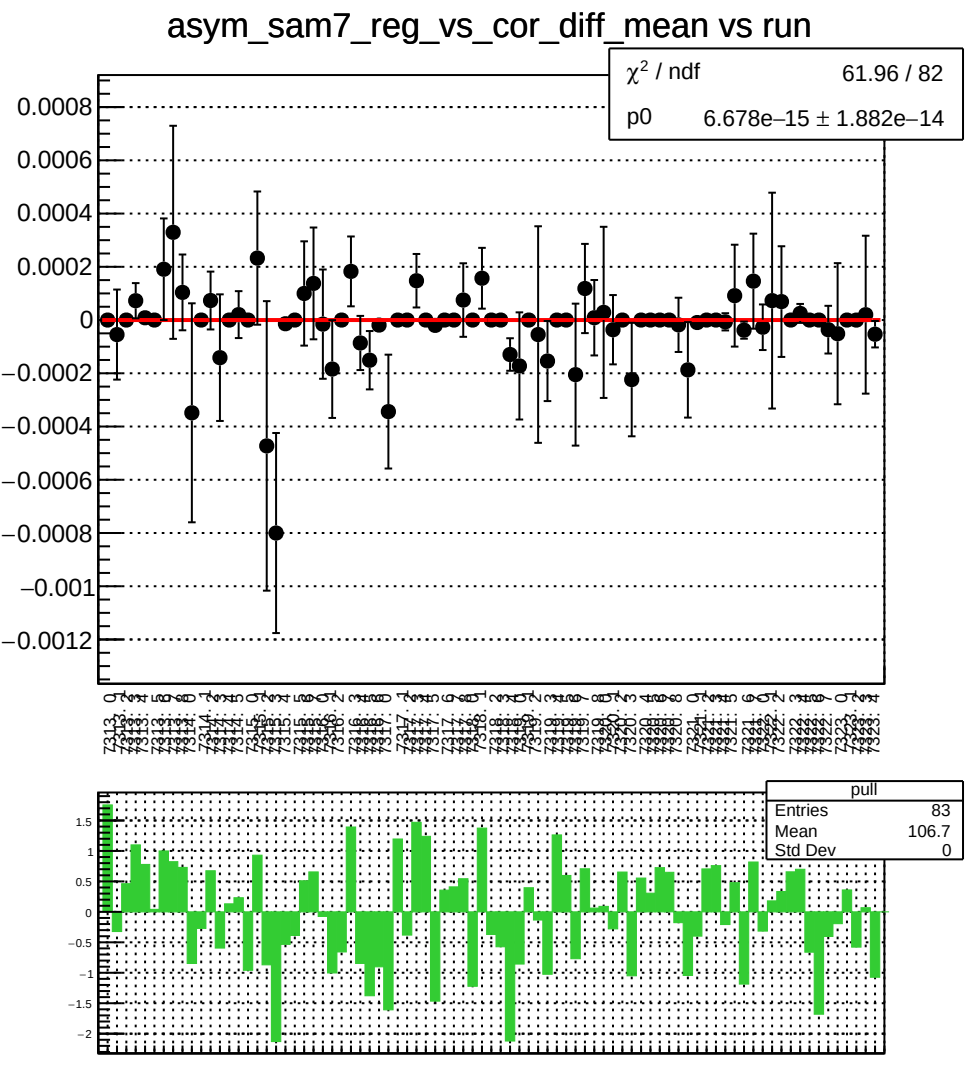

pull1D
Entries 83
Mean 0.01382
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

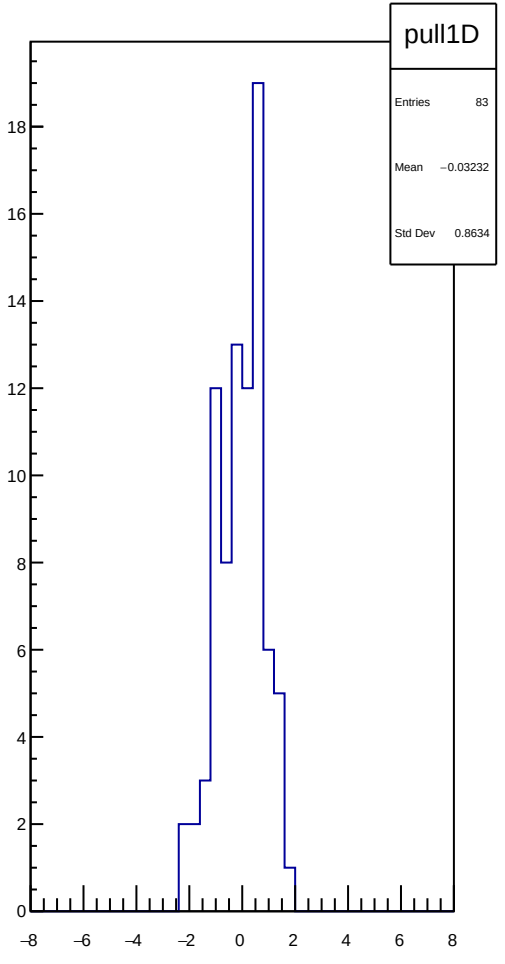

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4301 / 82
p0 294.8 ± 0.2325
340
330
320
310
300
290
280
270
260

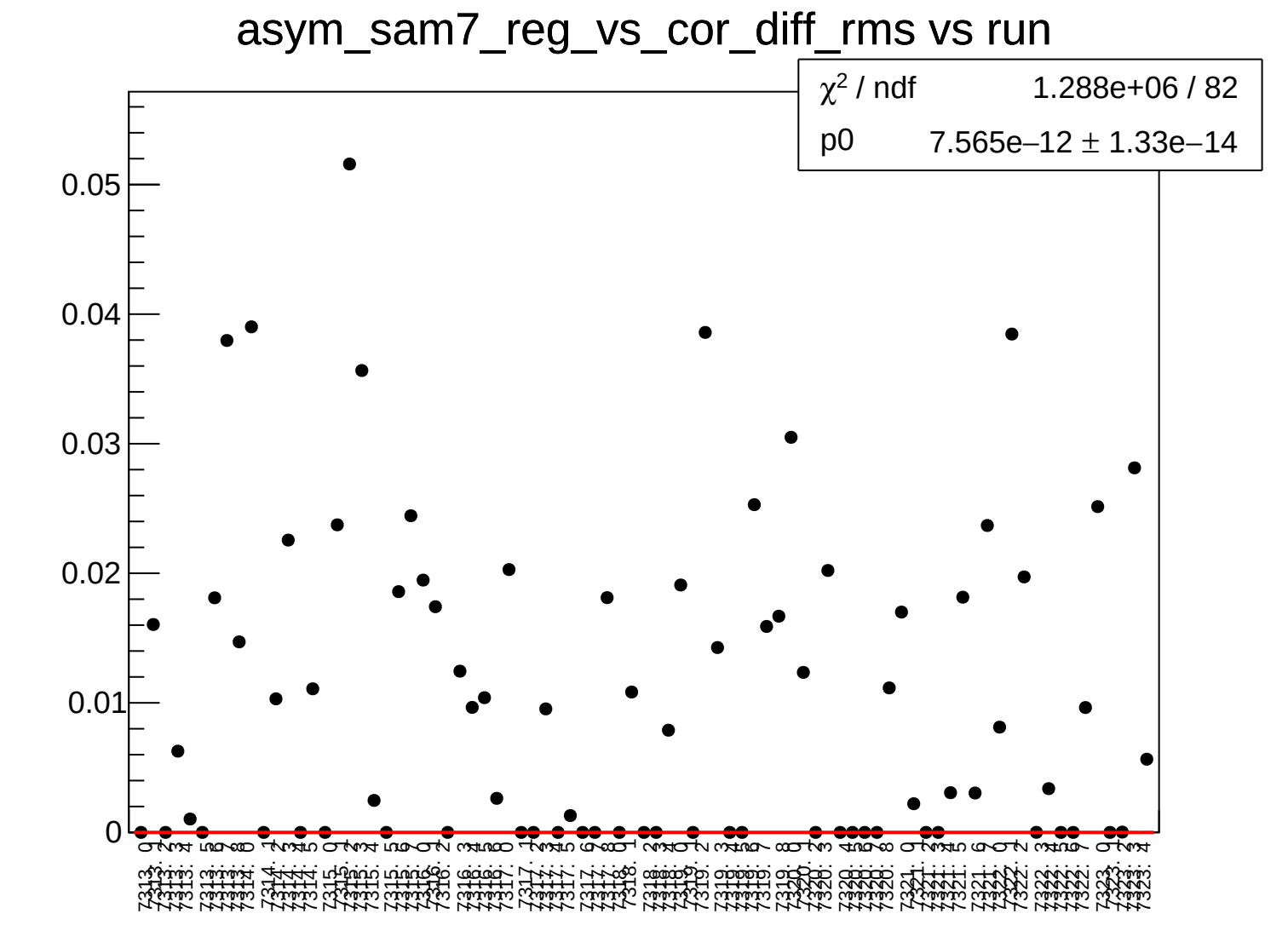

asym_sam7_mean vs run
χ^2 / ndf 66.92 / 82
p0 291.5 ± 321.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −126.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

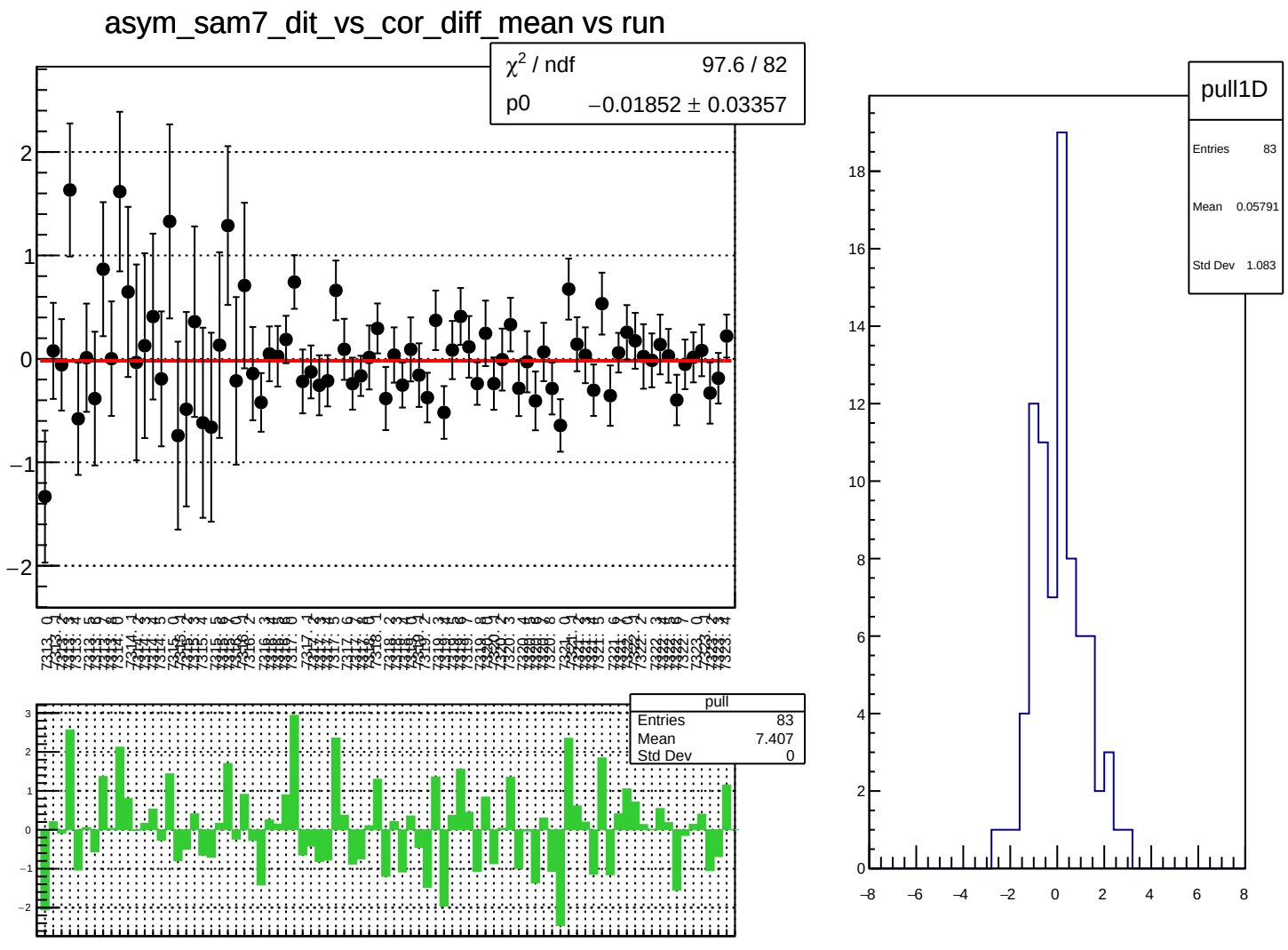

pull1D
Entries 83
Mean −0.01588
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

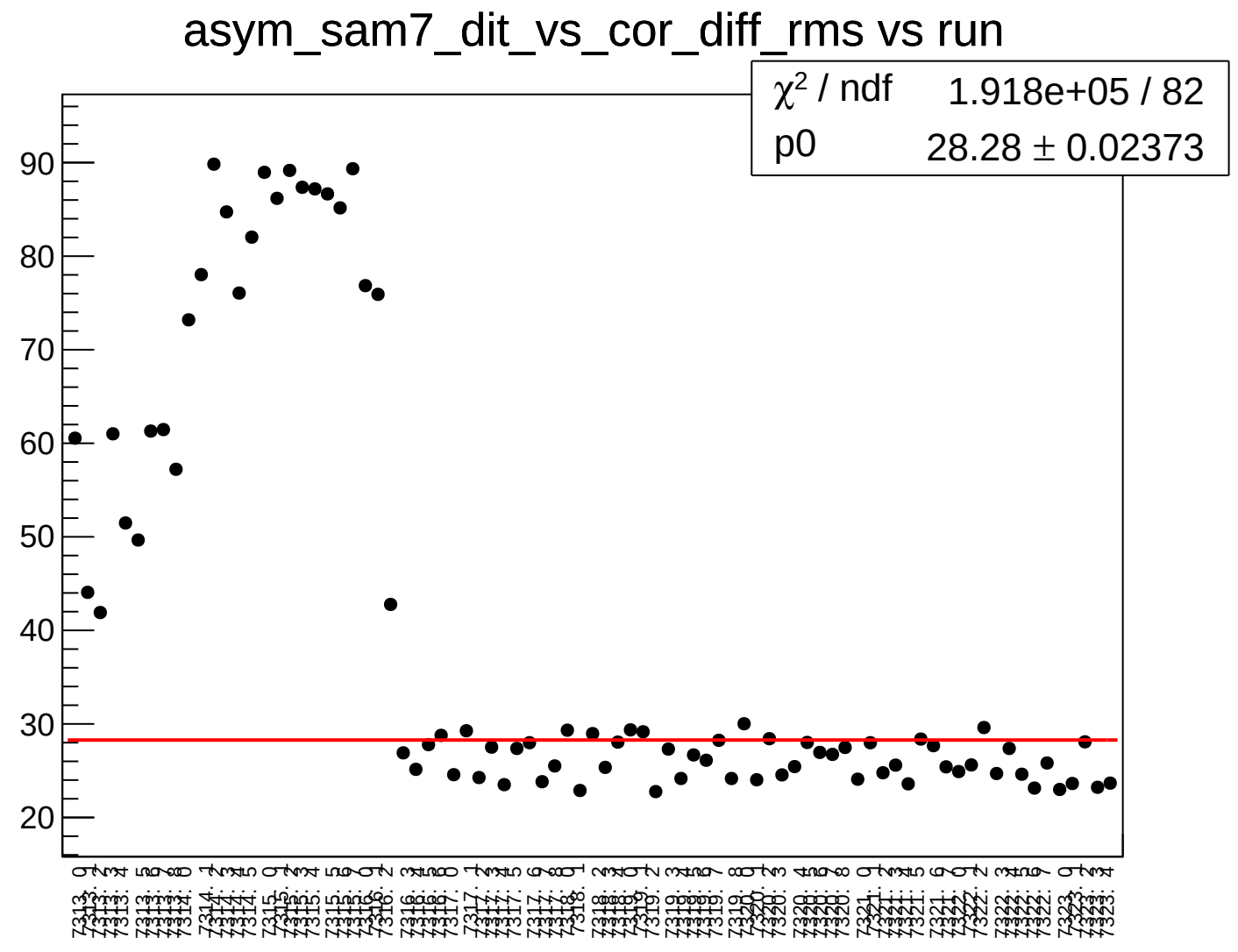

asym_sam7_rms vs run
χ² / ndf 6701 / 82
p0 288.2 ± 0.2275
330
320
310
300
290
280
270
260
250

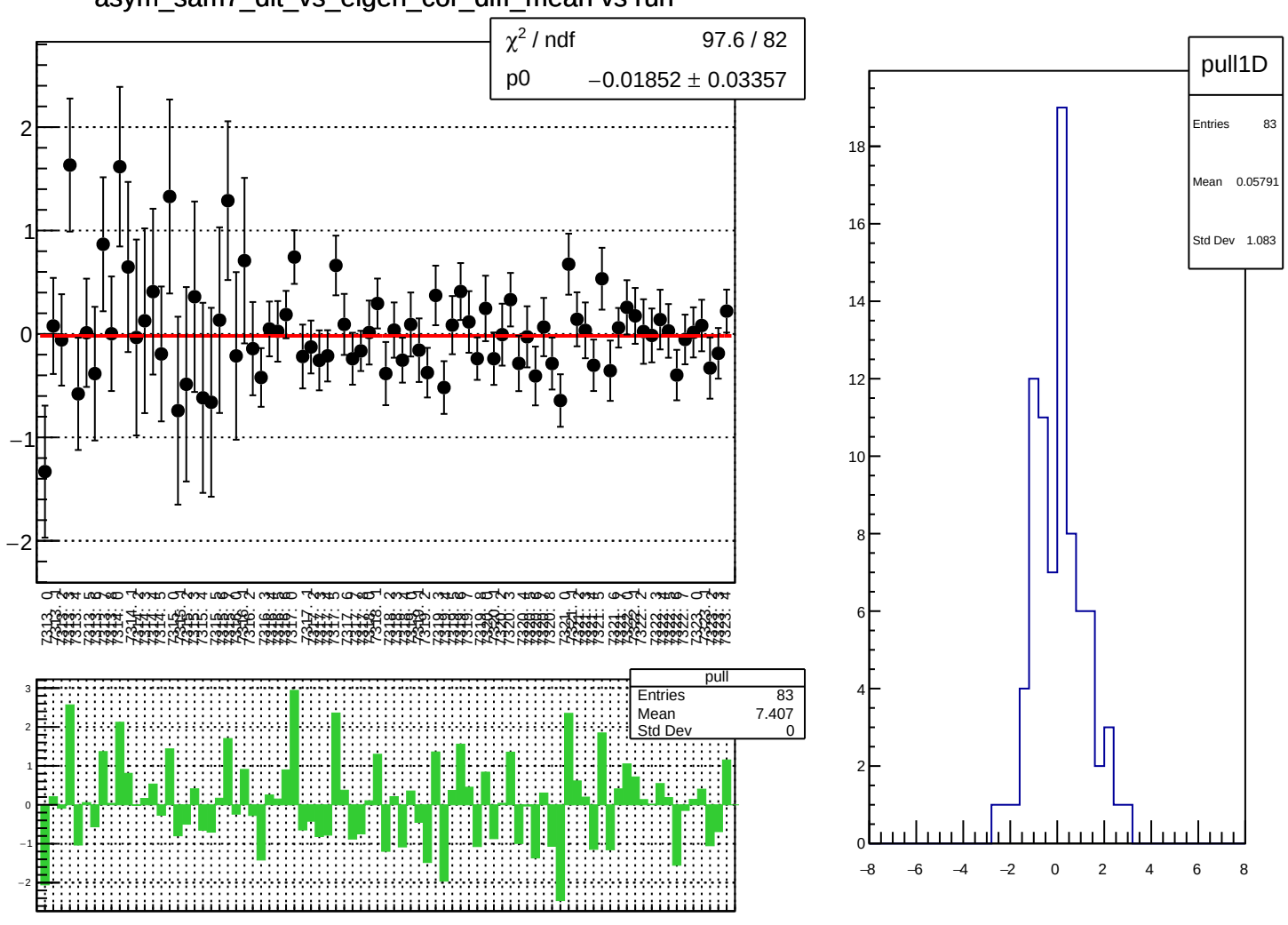

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 61.96 / 82
p0 6.678e−15 ± 1.882e−14
pull
Entries 83
Mean 106.7
Std Dev 0

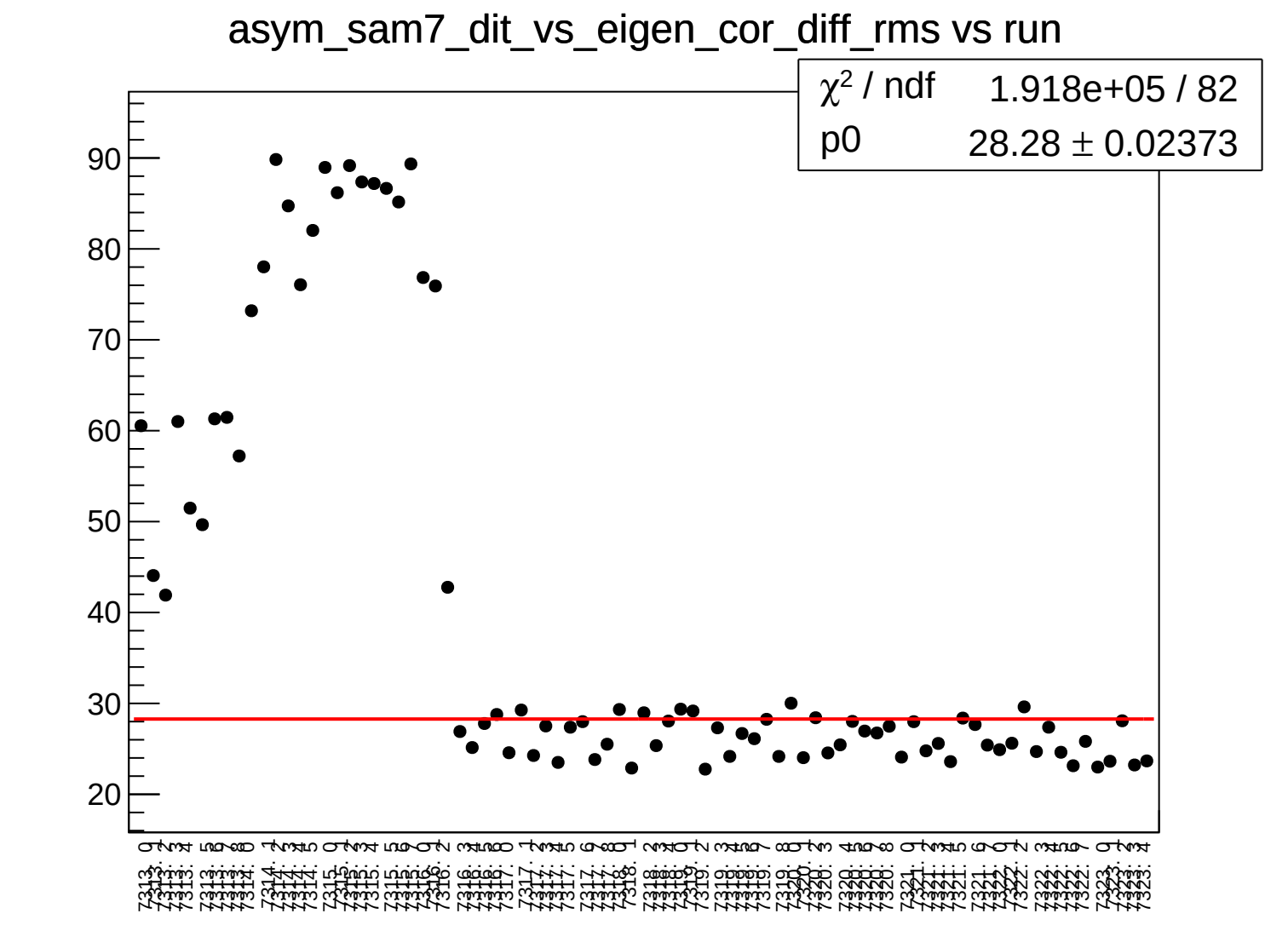

pull1D
Entries 83
Mean −0.03232
Std Dev 0.8634

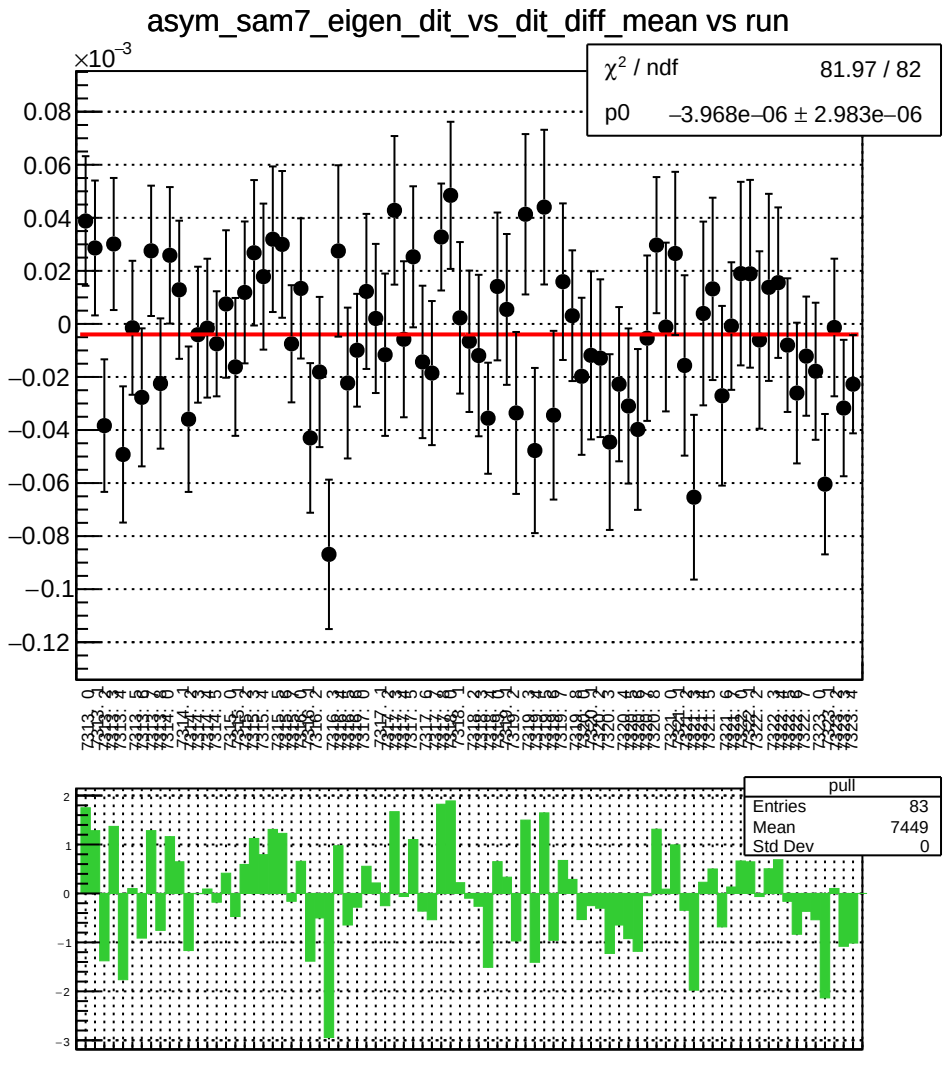

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.288e+06 / 82
p0 7.565e−12 ± 1.33e−14
0.05
0.04
0.03
0.02
0.01
0

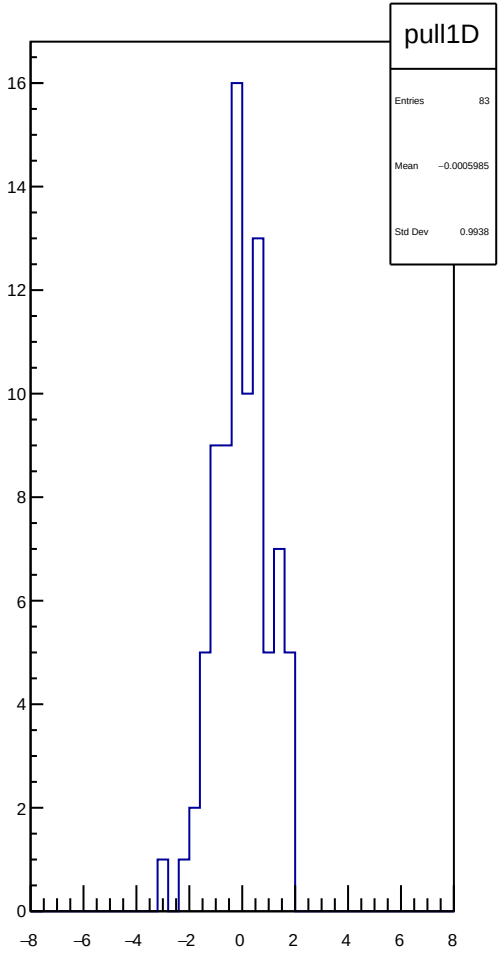

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 97.6 / 82
p0 −0.01852 ± 0.03357
pull
Entries 83
Mean 7.407
Std Dev 0
pull1D
Entries 83
Mean 0.05791
Std Dev 1.083

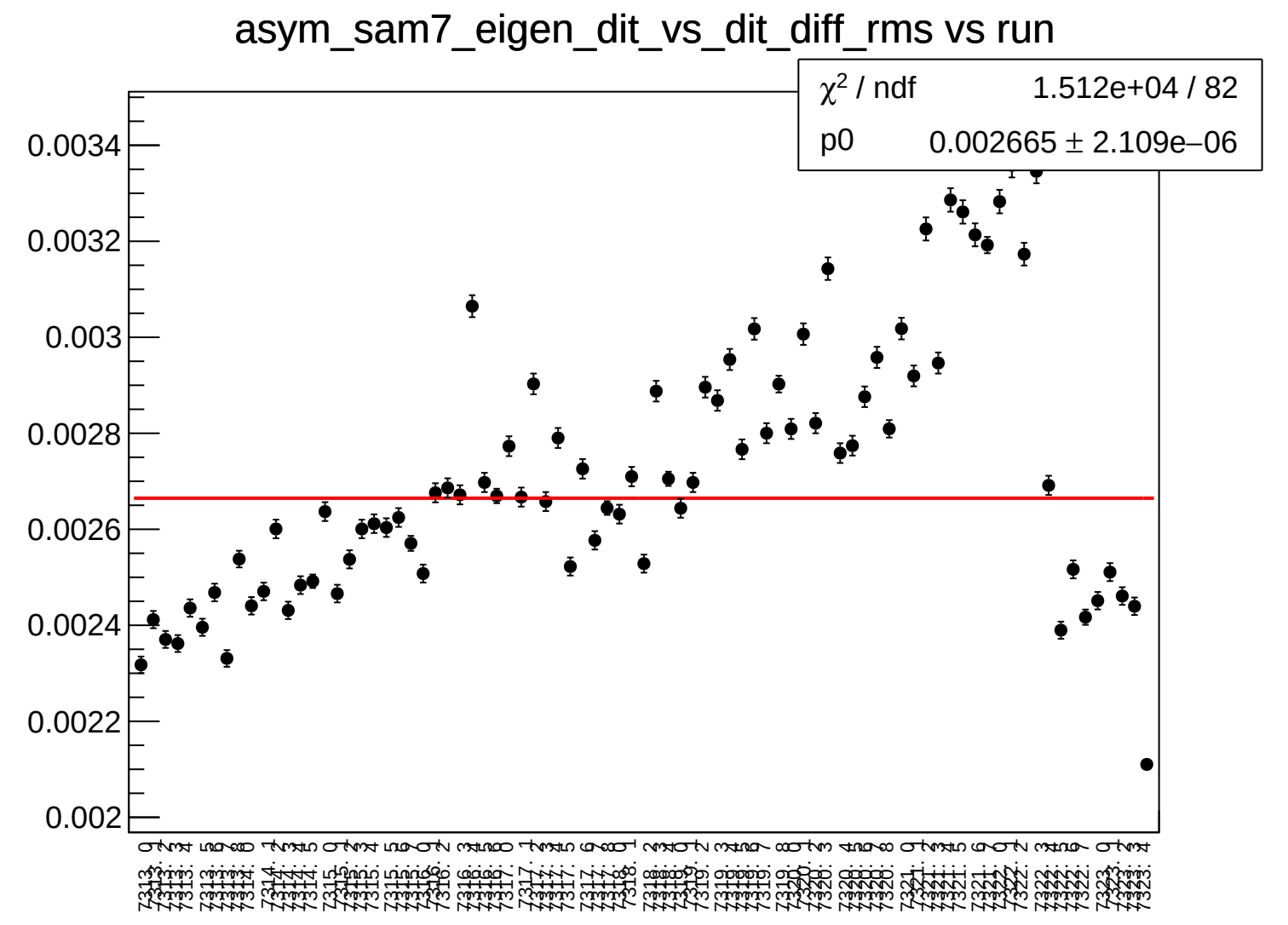

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.918e+05 / 82
p0 28.28 ± 0.02373
90
80
70
60
50
40
30
20

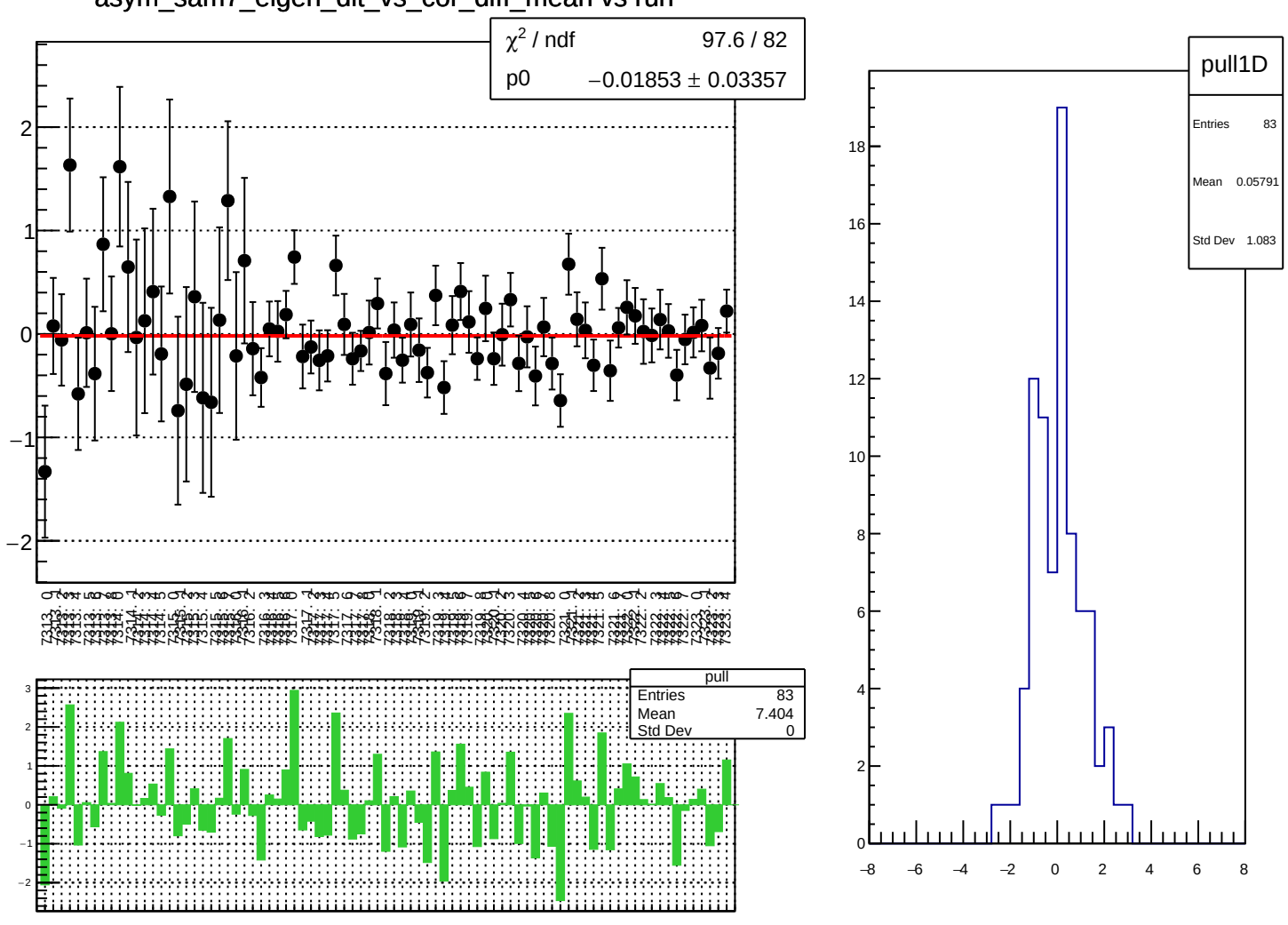

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.6 / 82
p0 −0.01852 ± 0.03357
pull
Entries 83
Mean 7.407
Std Dev 0
pull1D
Entries 83
Mean 0.05791
Std Dev 1.083

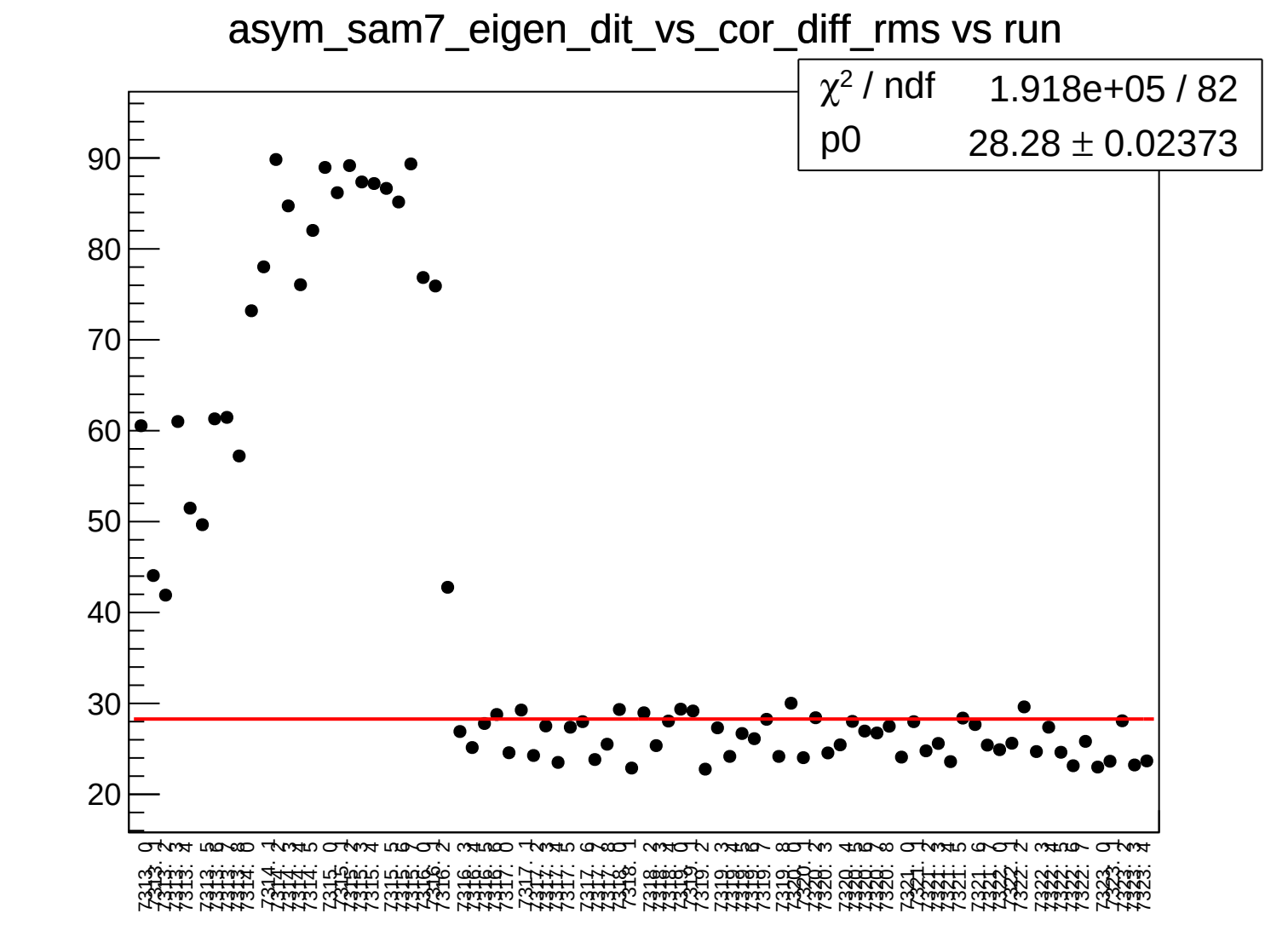

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.918e+05 / 82
p0 28.28 ± 0.02373
90
80
70
60
50
40
30
20

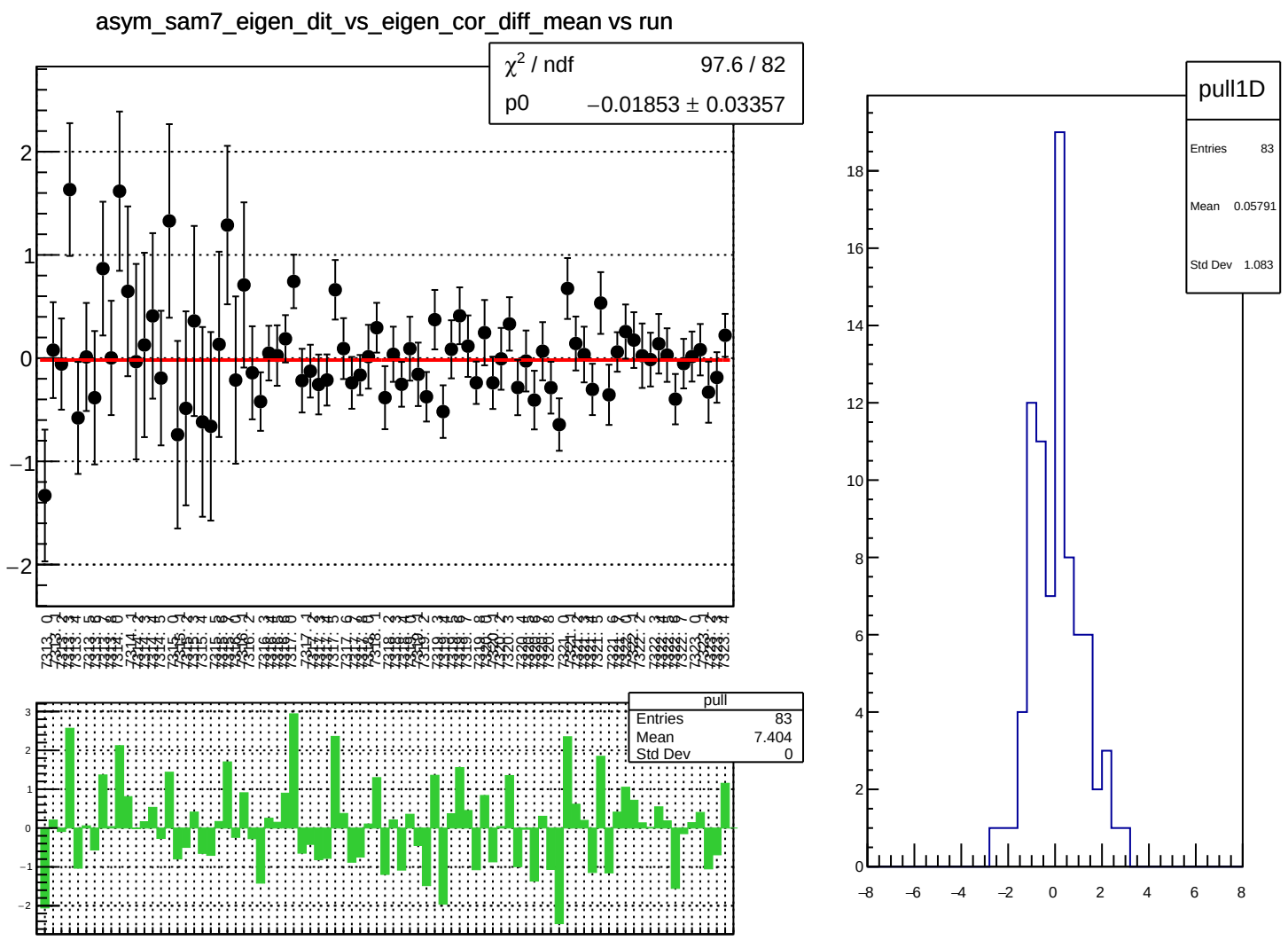

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.97 / 82
p0 −3.968e−06 ± 2.983e−06
pull
Entries 83
Mean 7449
Std Dev 0

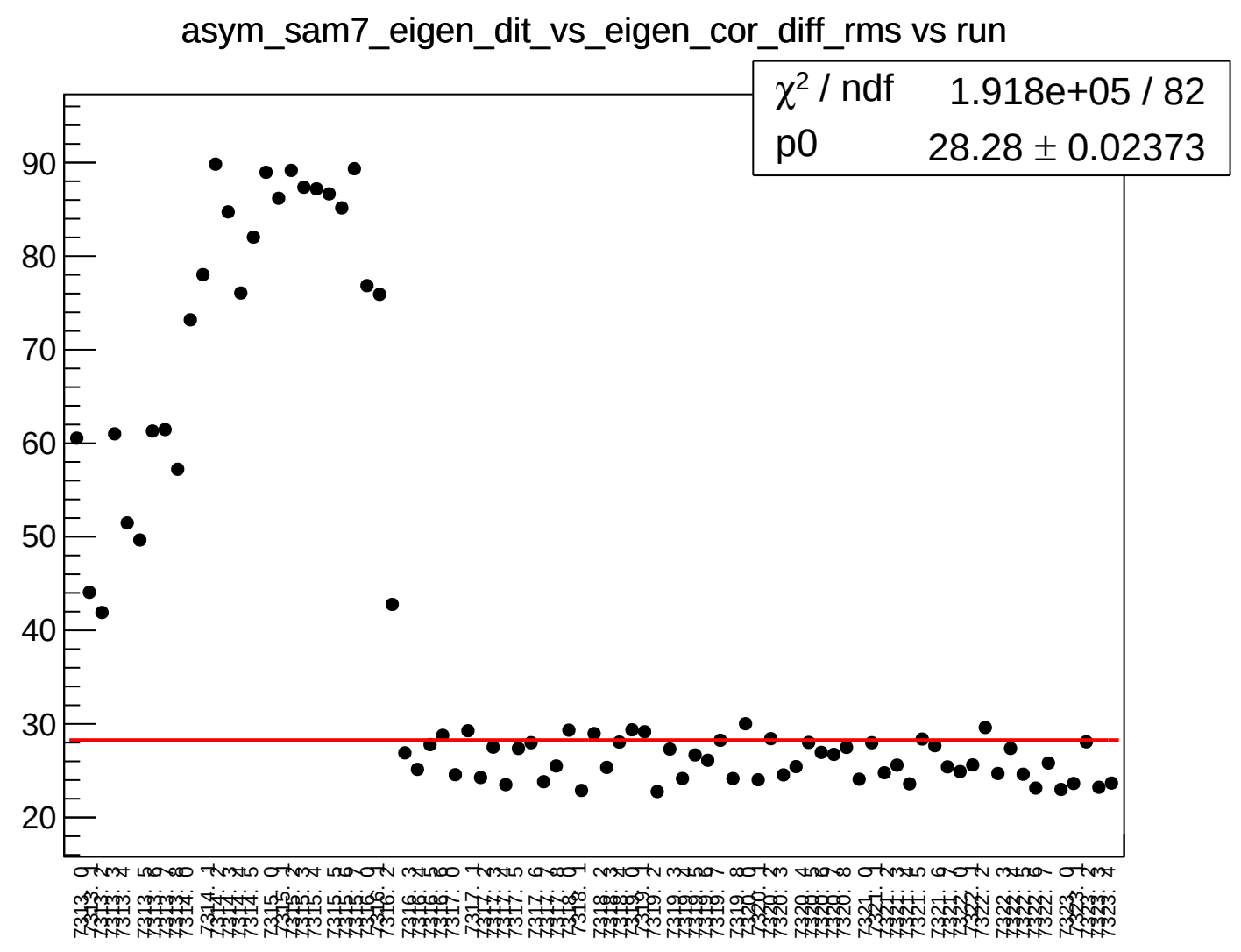

pull1D
Entries 83
Mean −0.0005985
Std Dev 0.9938

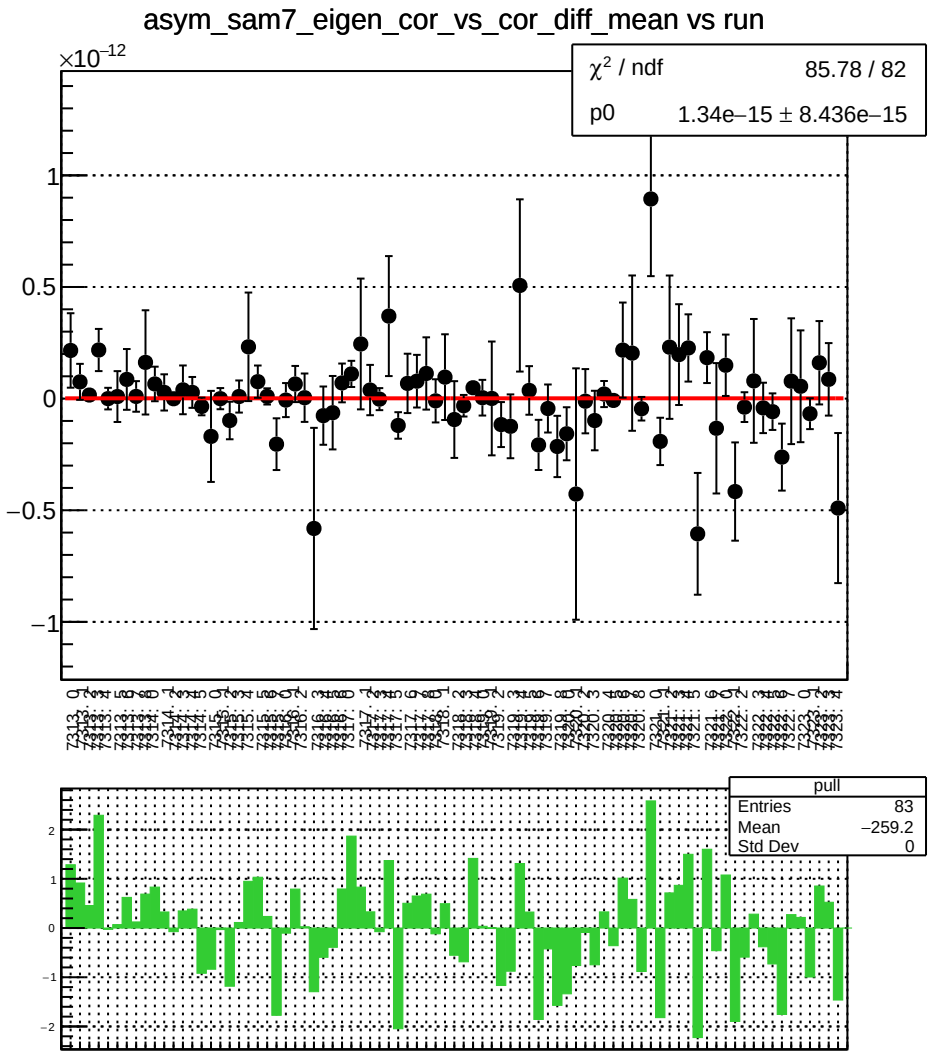

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.512e+04 / 82
p0 0.002665 ± 2.109e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

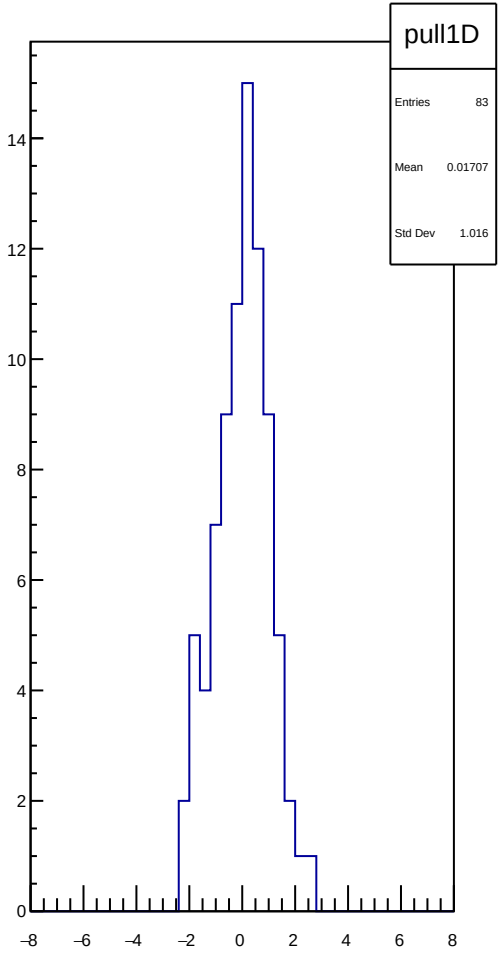

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.6 / 82
p0 −0.01853 ± 0.03357
pull
Entries 83
Mean 7.404
Std Dev 0
pull1D
Entries 83
Mean 0.05791
Std Dev 1.083

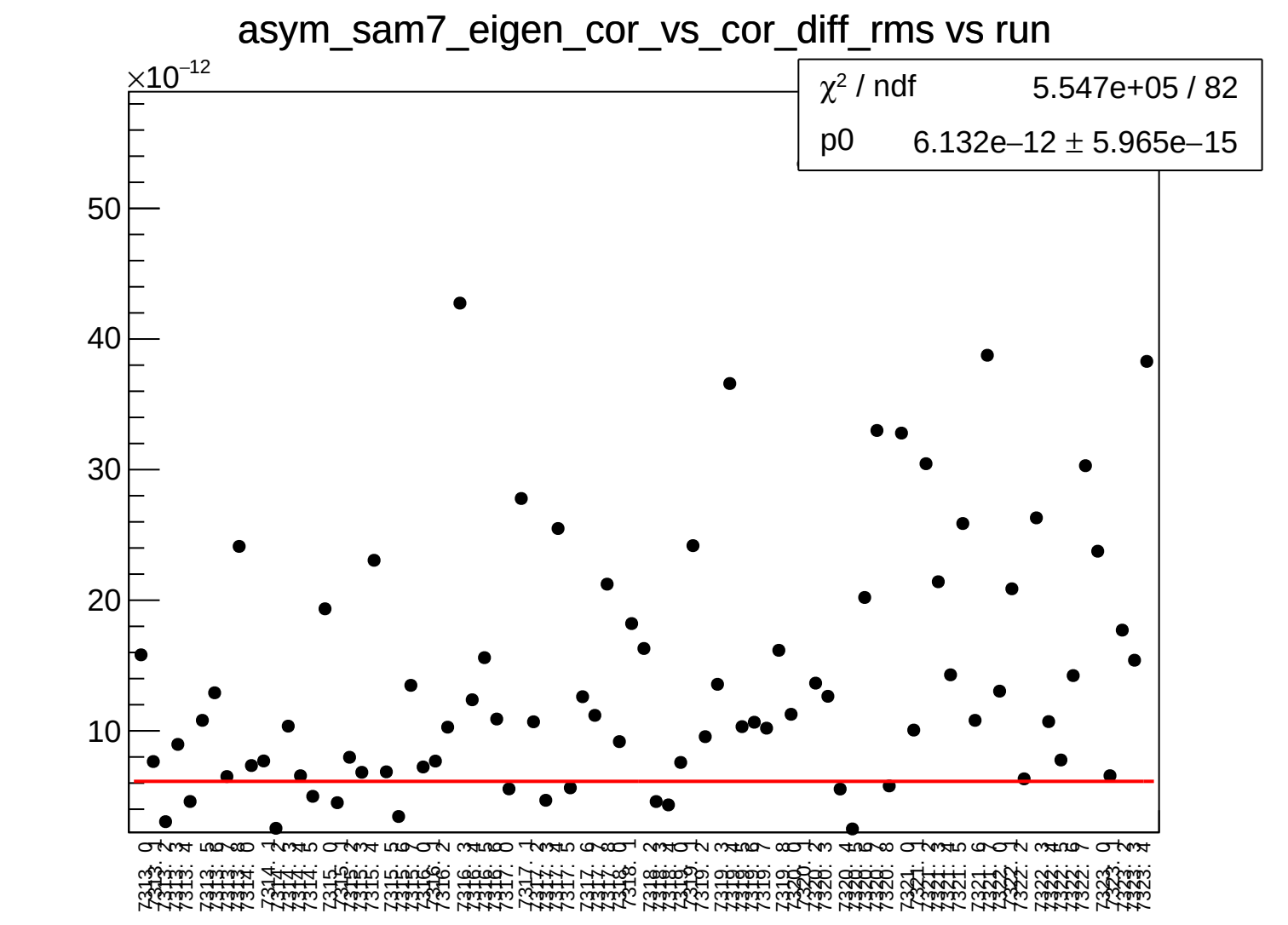

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.918e+05 / 82
p0 28.28 ± 0.02373
90
80
70
60
50
40
30
20

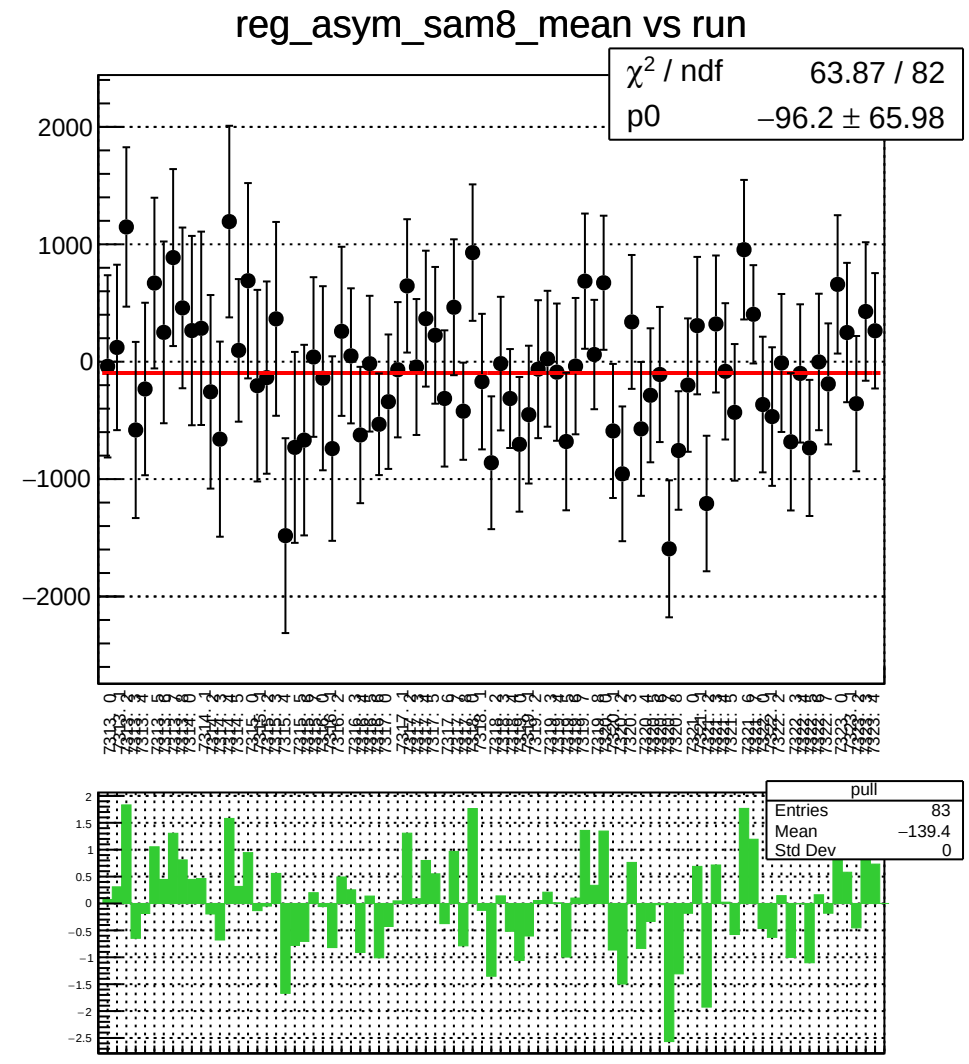

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.6 / 82
p0 −0.01853 ± 0.03357
pull
Entries 83
Mean 7.404
Std Dev 0
pull1D
Entries 83
Mean 0.05791
Std Dev 1.083

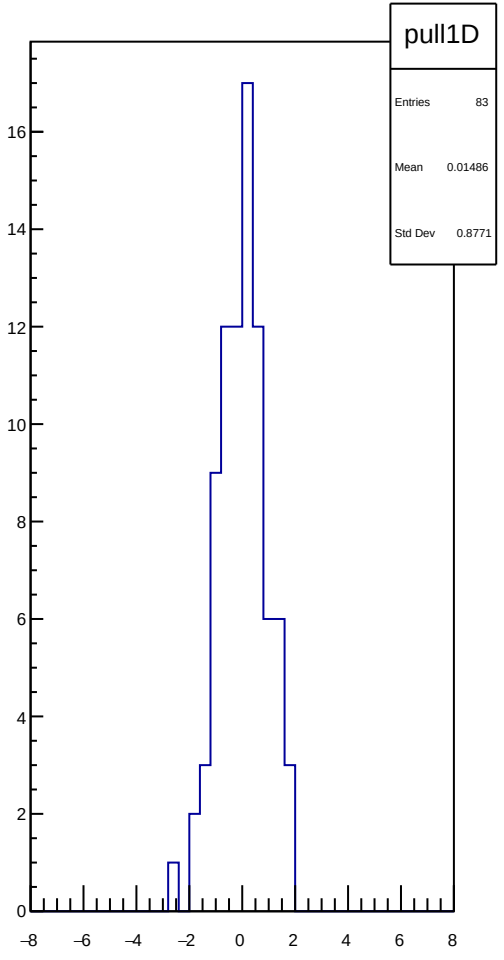

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.918e+05 / 82
p0 28.28 ± 0.02373
90
80
70
60
50
40
30
20

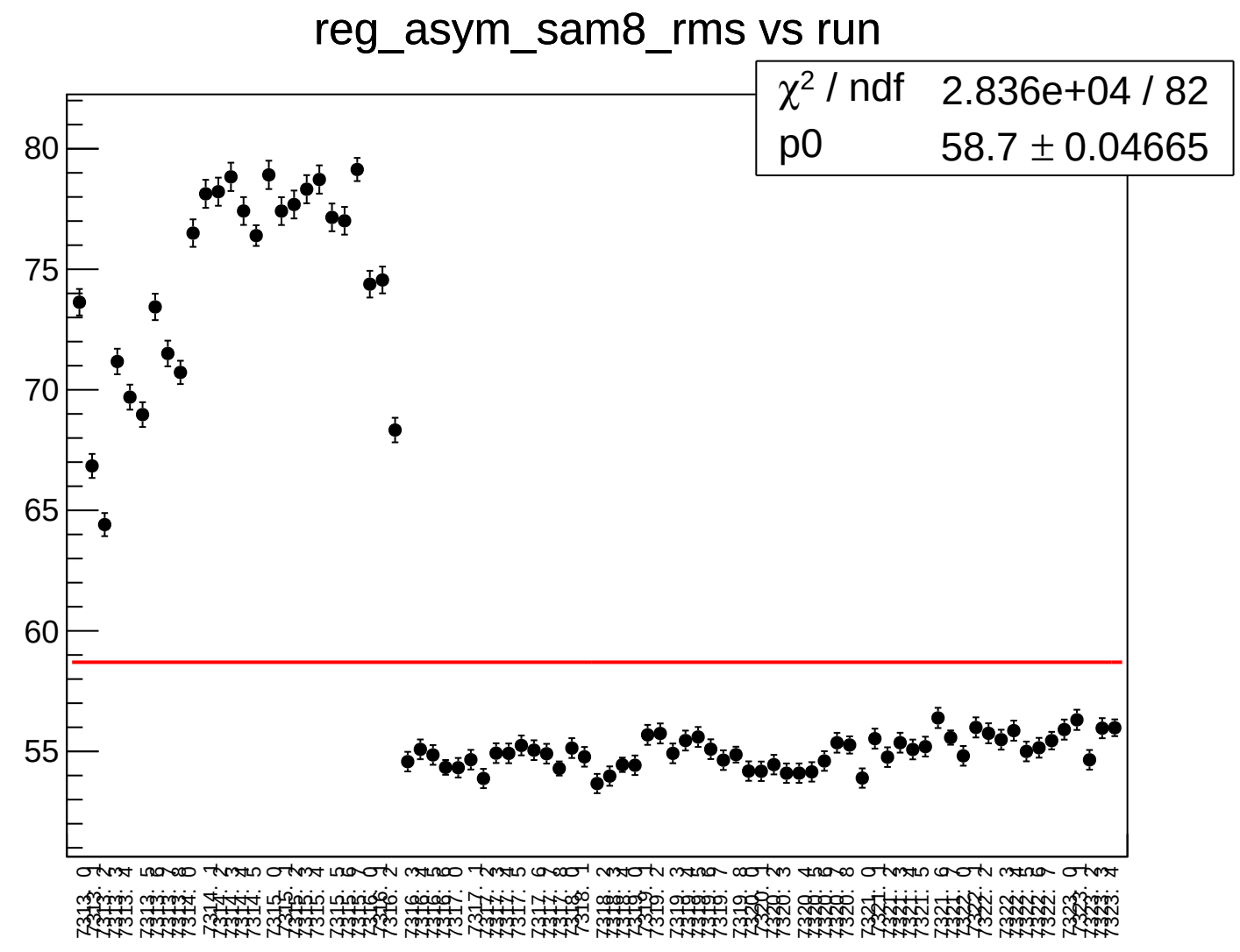

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.78 / 82
p0 1.34e−15 ± 8.436e−15
pull
Entries 83
Mean −259.2
Std Dev 0

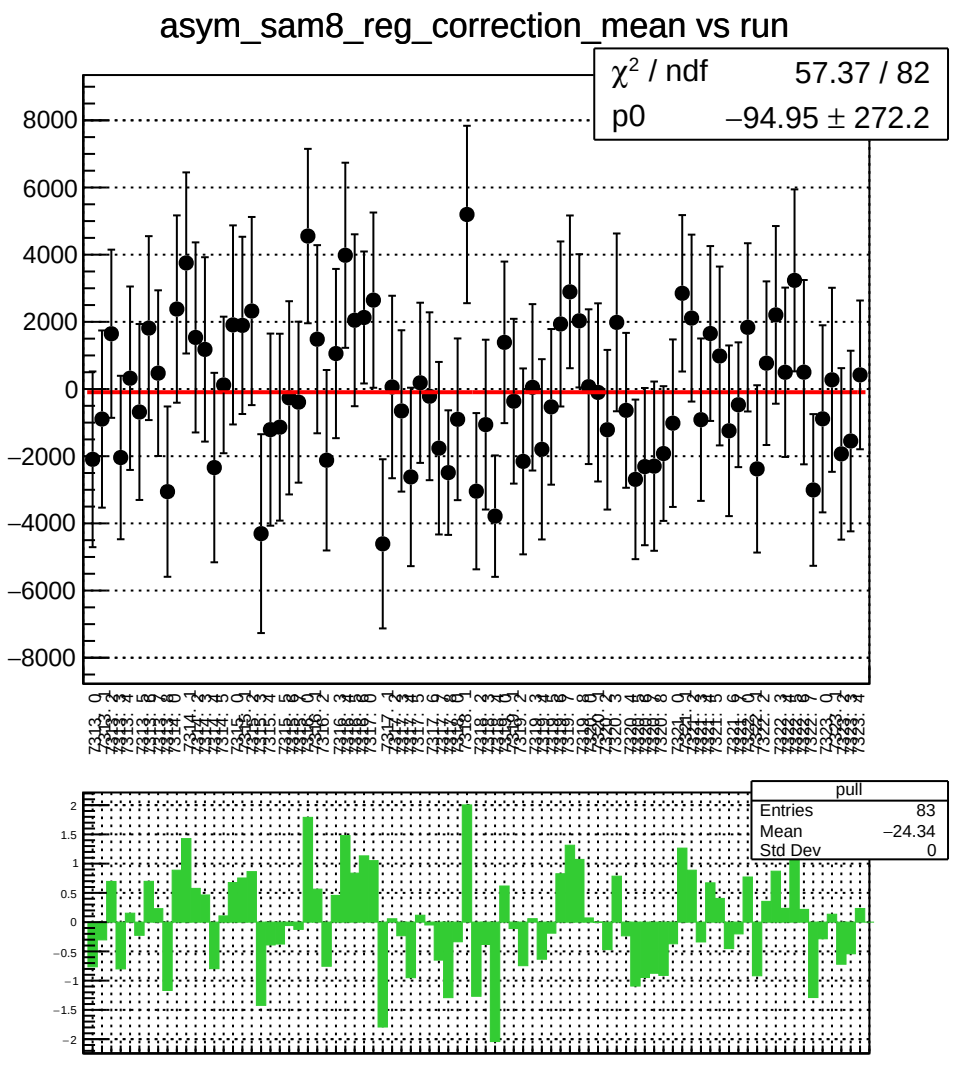

pull1D
Entries 83
Mean 0.01707
Std Dev 1.016

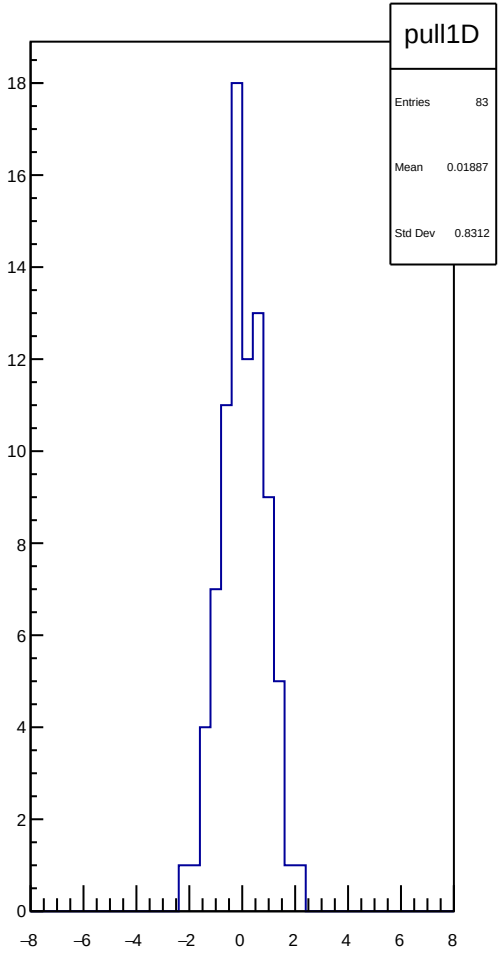

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.547e+05 / 82
p0 6.132e−12 ± 5.965e−15
50
40
30
20
10

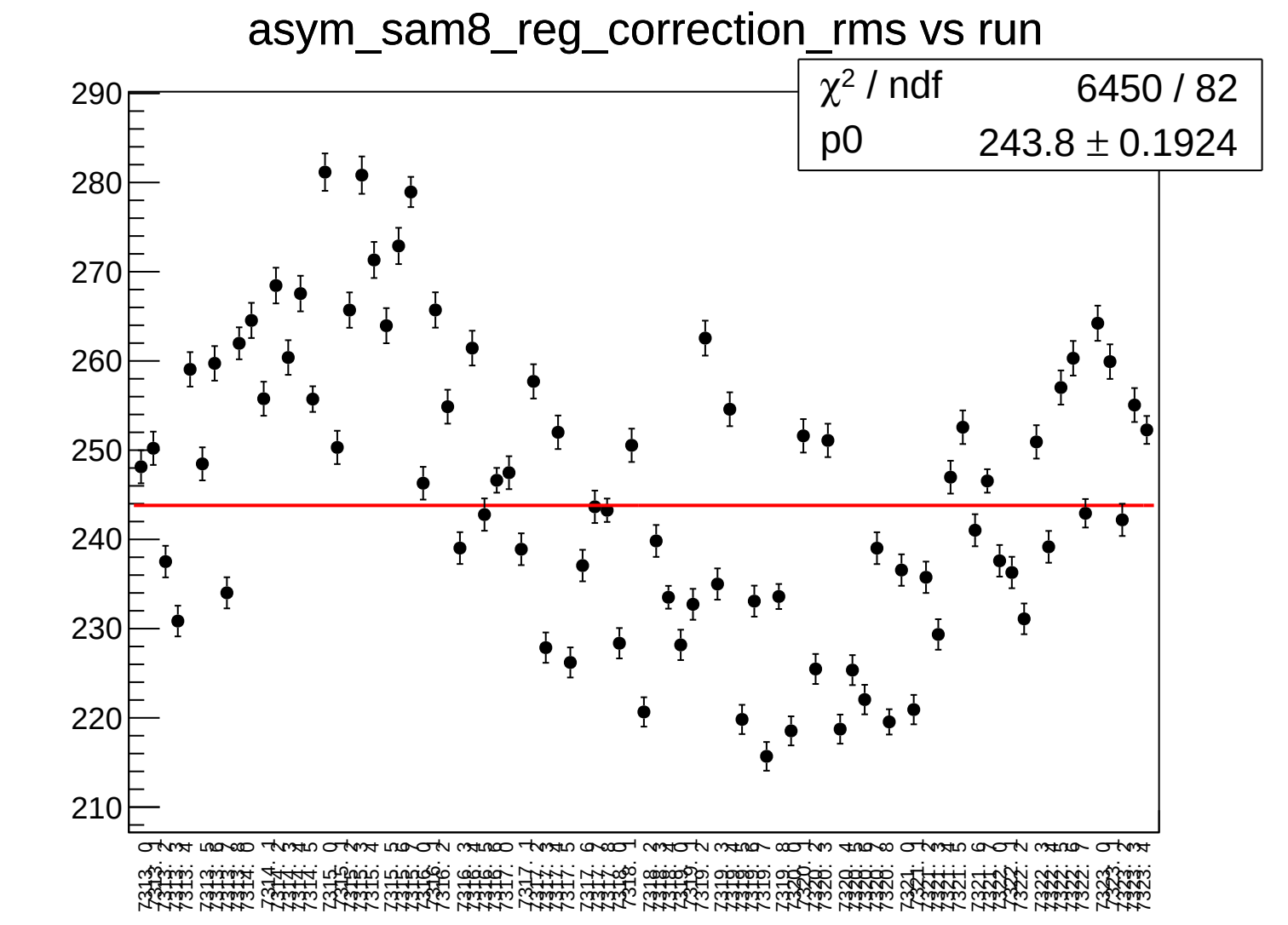

reg_asym_sam8_mean vs run
χ² / ndf 63.87 / 82
p0 −96.2 ± 65.98
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −139.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

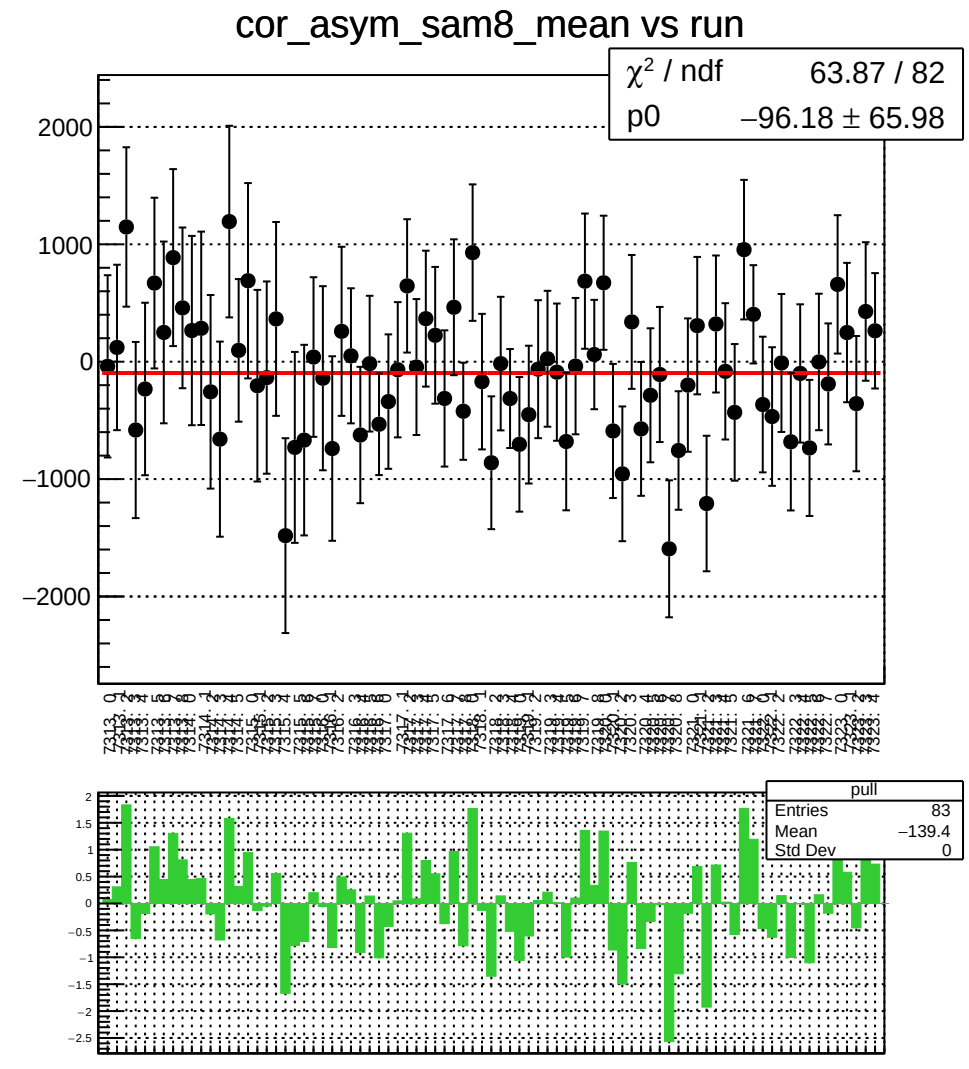

pull1D
Entries 83
Mean 0.01486
Std Dev 0.8771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

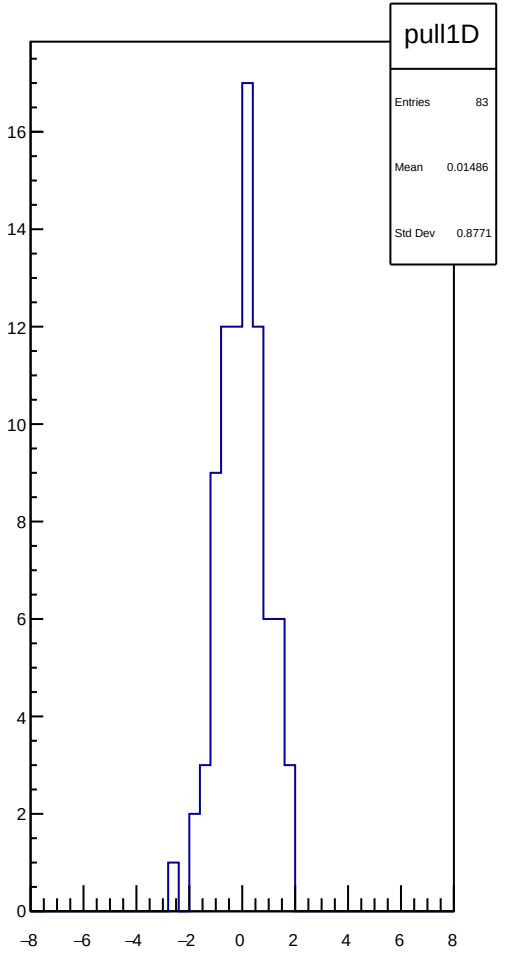

reg_asym_sam8_rms vs run
χ² / ndf 2.836e+04 / 82
p0 58.7 ± 0.04665
80
75
70
65
60
55

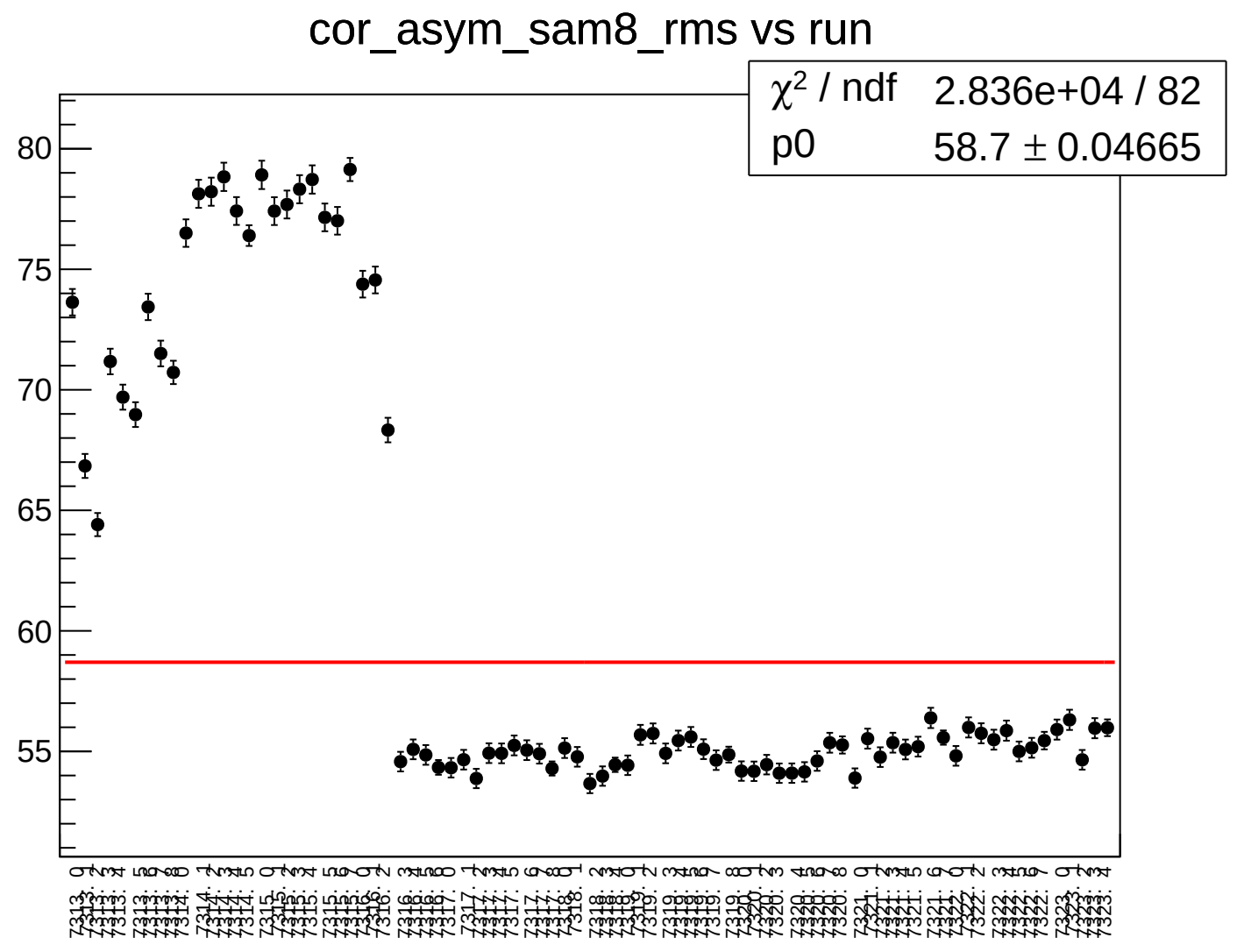

asym_sam8_reg_correction_mean vs run
χ² / ndf 57.37 / 82
p0 −94.95 ± 272.2
pull
Entries 83
Mean −24.34
Std Dev 0

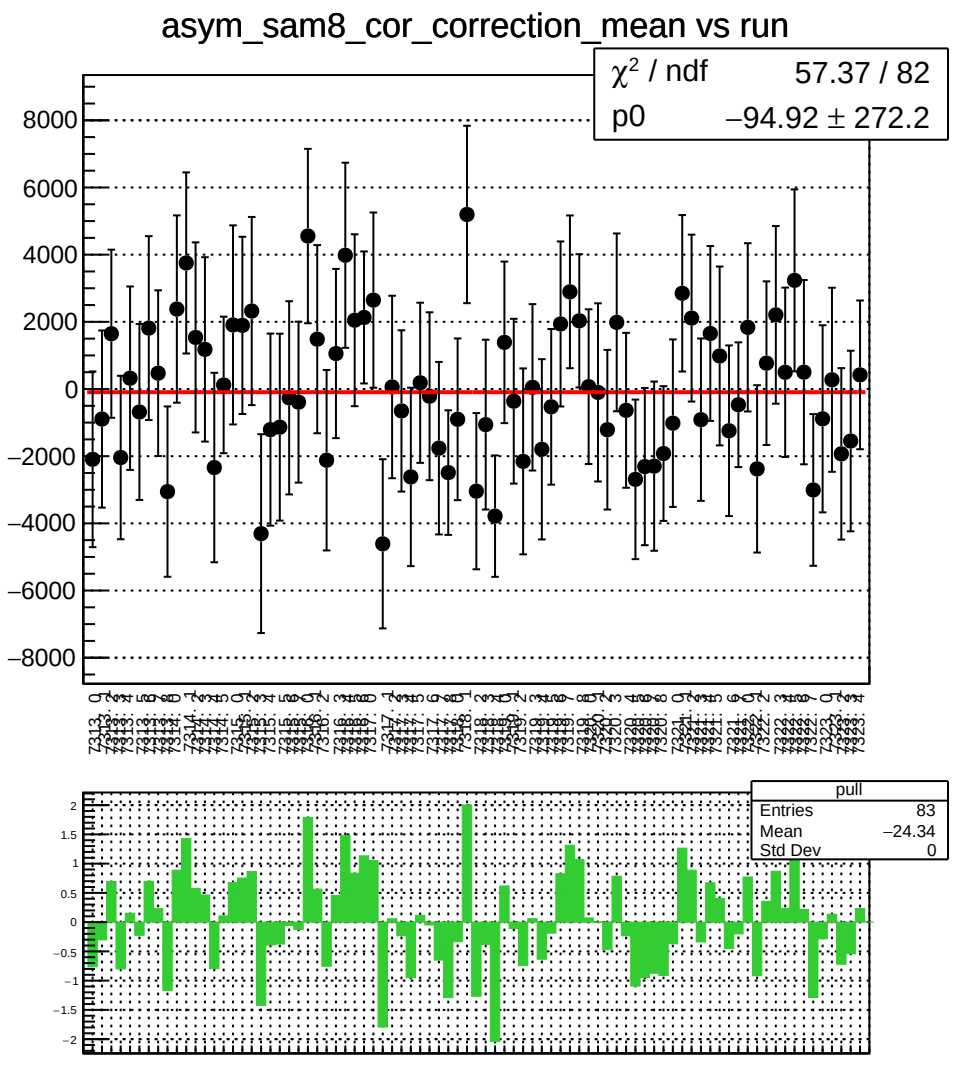

pull1D
Entries 83
Mean 0.01887
Std Dev 0.8312

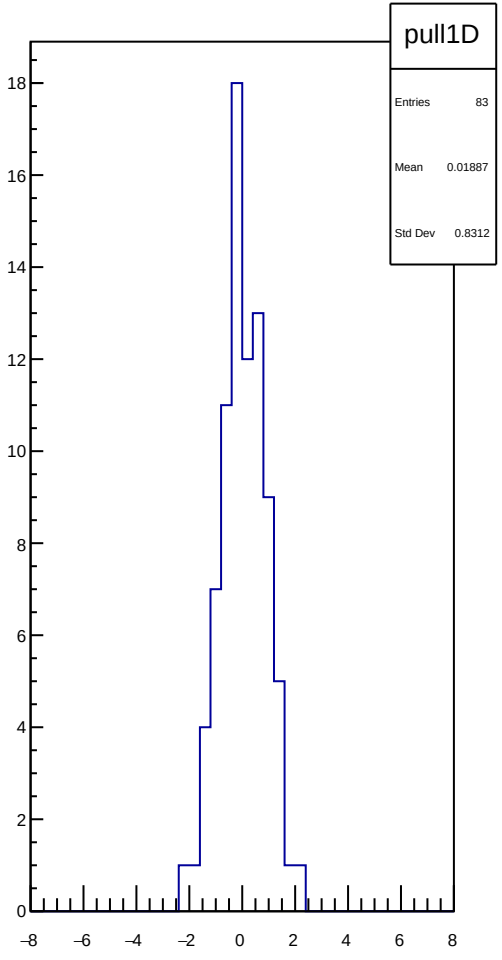

asym_sam8_reg_correction_rms vs run
χ² / ndf 6450 / 82
p0 243.8 ± 0.1924
290
280
270
260
250
240
230
220
210

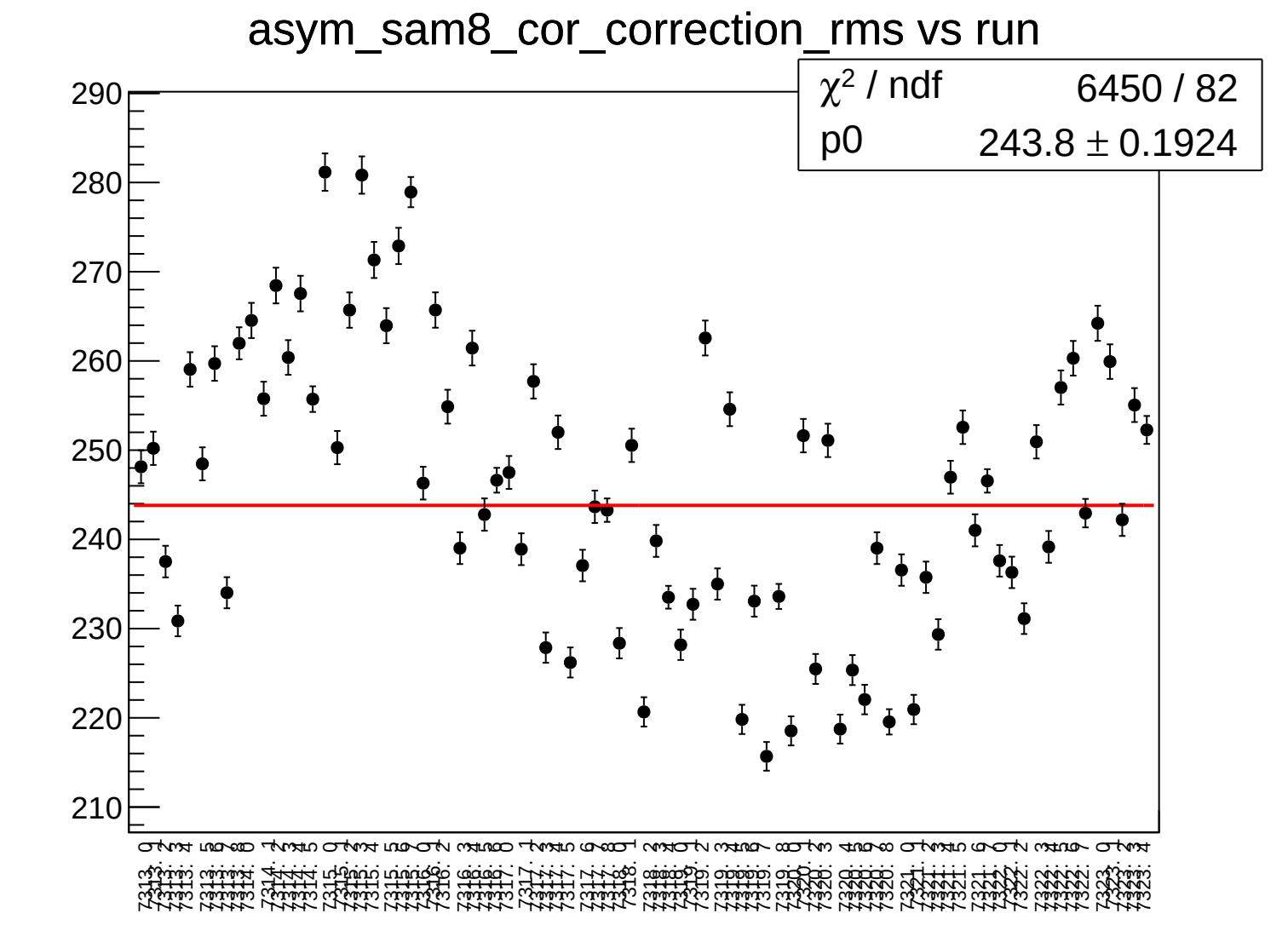

cor_asym_sam8_mean vs run
χ² / ndf 63.87 / 82
p0 −96.18 ± 65.98
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −139.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

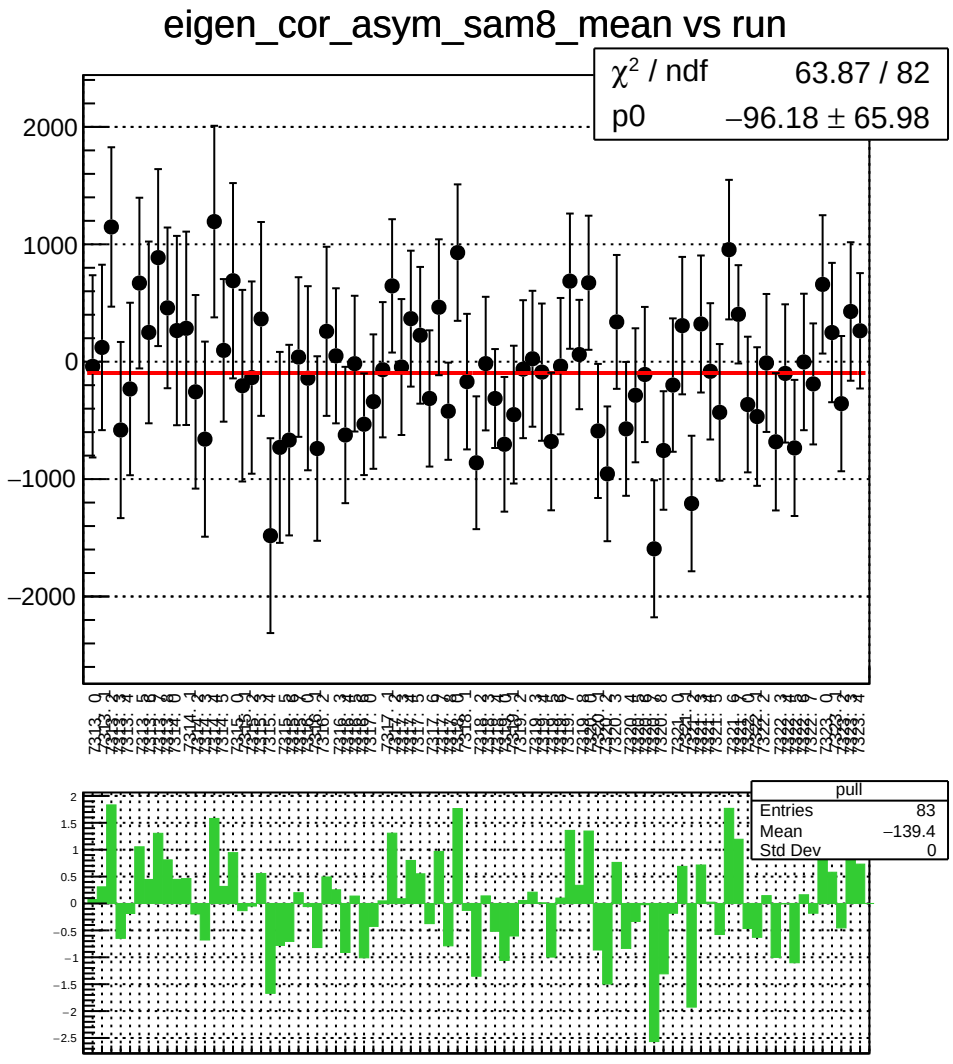

pull1D
Entries 83
Mean 0.01486
Std Dev 0.8771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

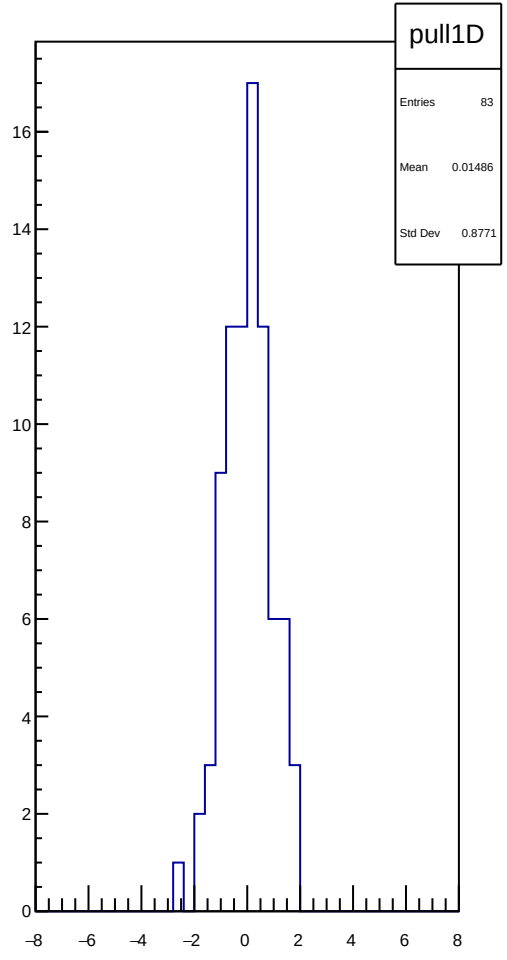

cor_asym_sam8_rms vs run
χ² / ndf 2.836e+04 / 82
p0 58.7 ± 0.04665
80
75
70
65
60
55

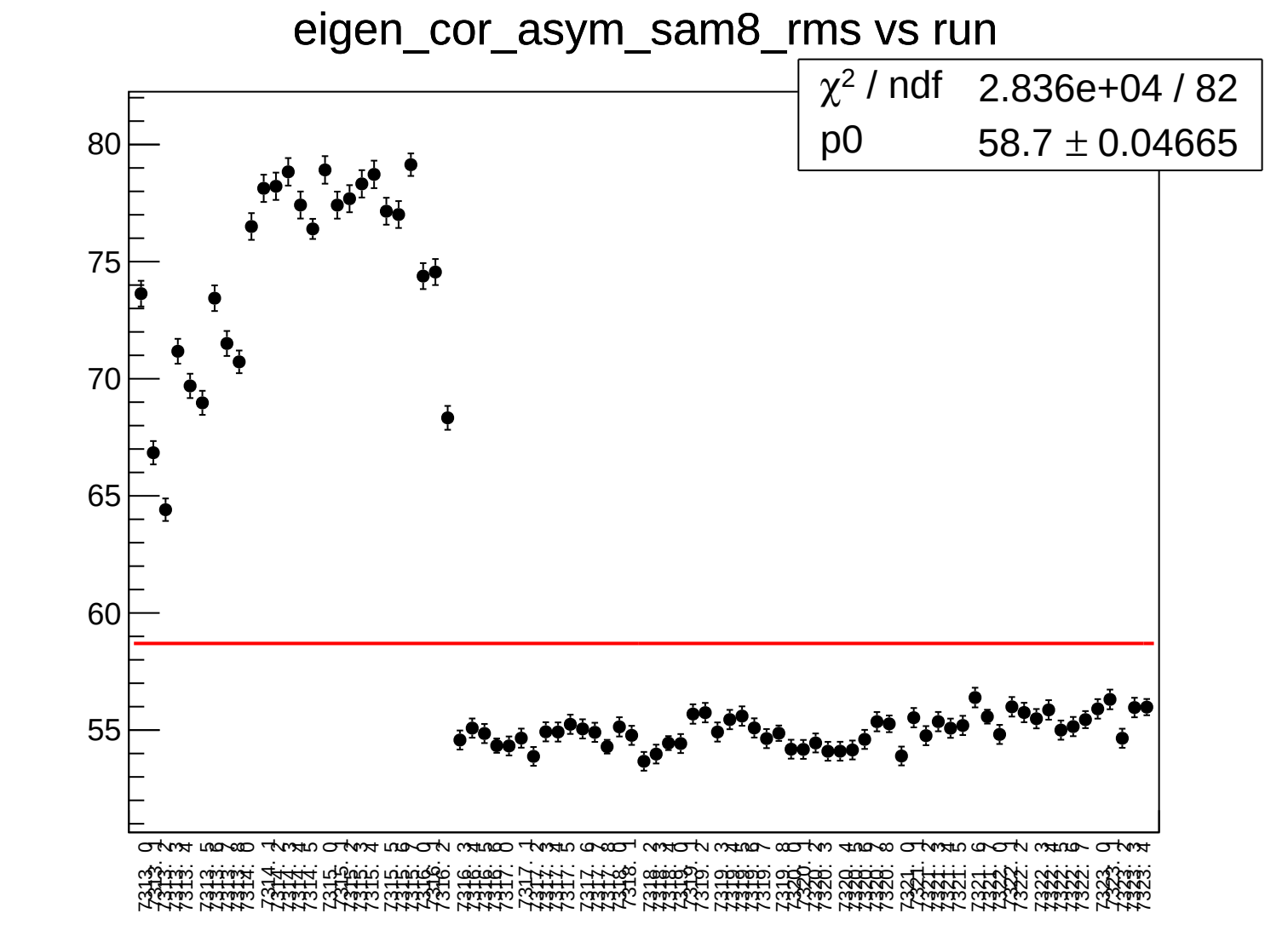

asym_sam8_cor_correction_mean vs run
χ² / ndf 57.37 / 82
p0 −94.92 ± 272.2
pull
Entries 83
Mean −24.34
Std Dev 0

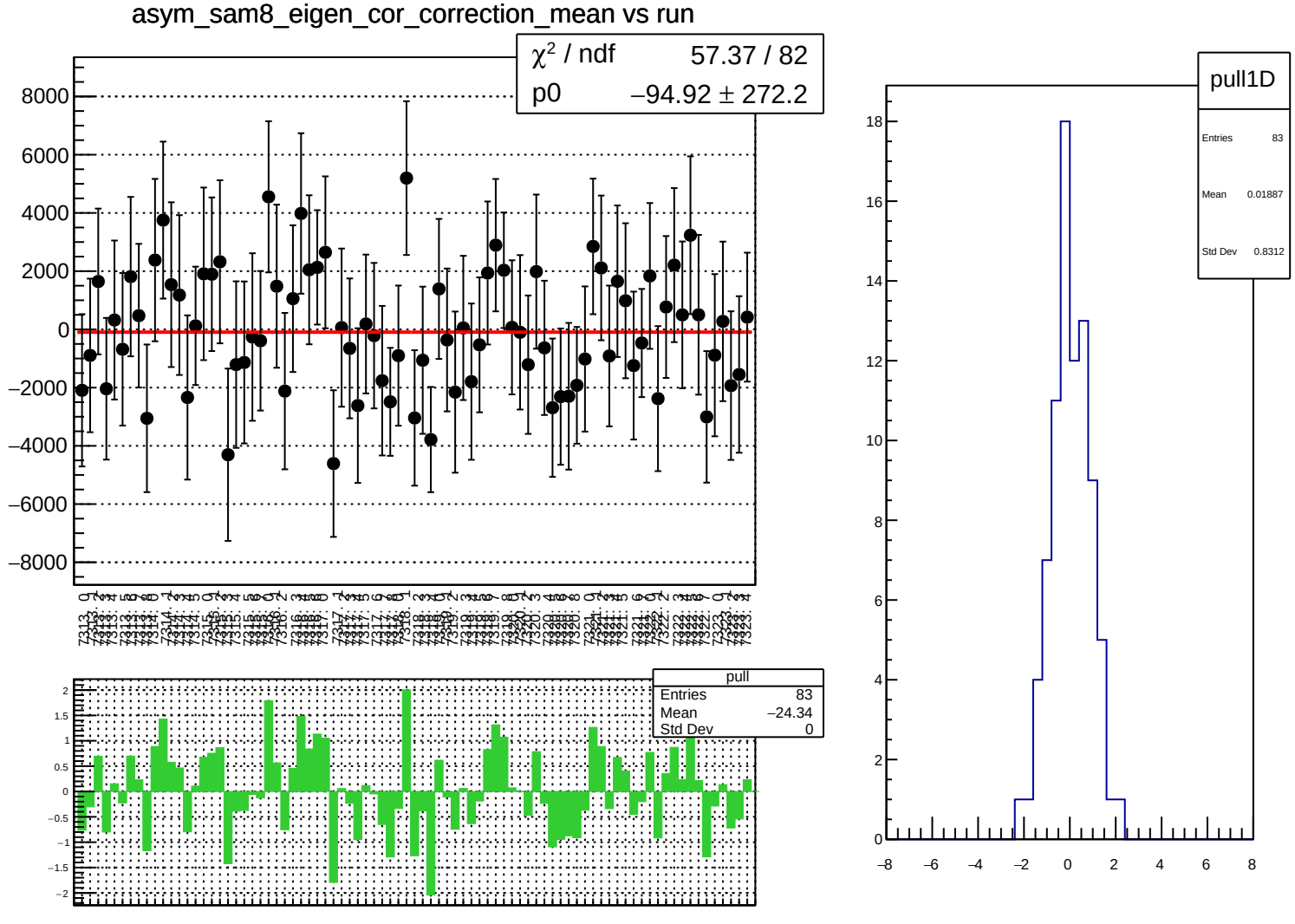

pull1D
Entries 83
Mean 0.01887
Std Dev 0.8312

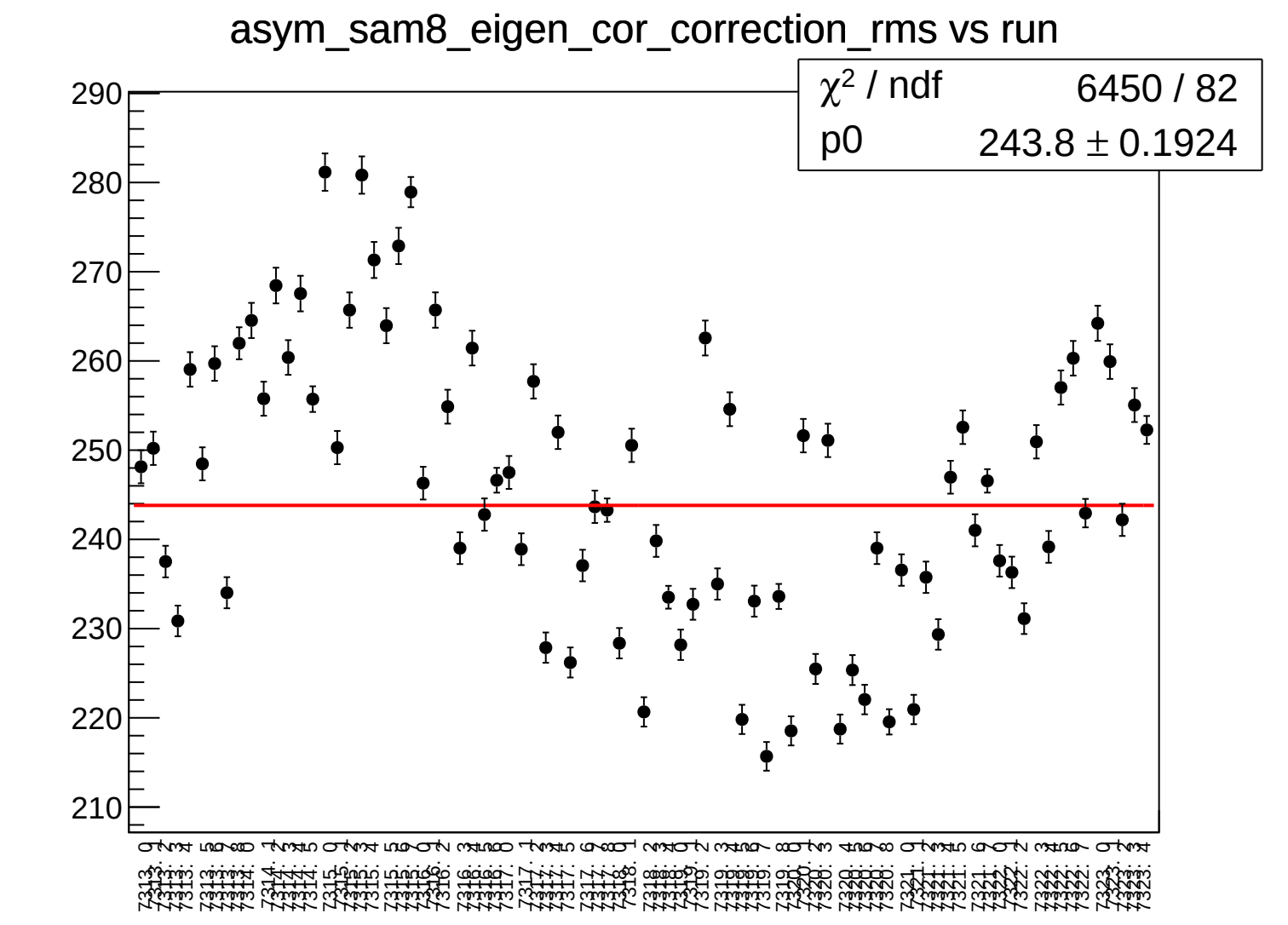

asym_sam8_cor_correction_rms vs run
χ² / ndf 6450 / 82
p0 243.8 ± 0.1924
290
280
270
260
250
240
230
220
210

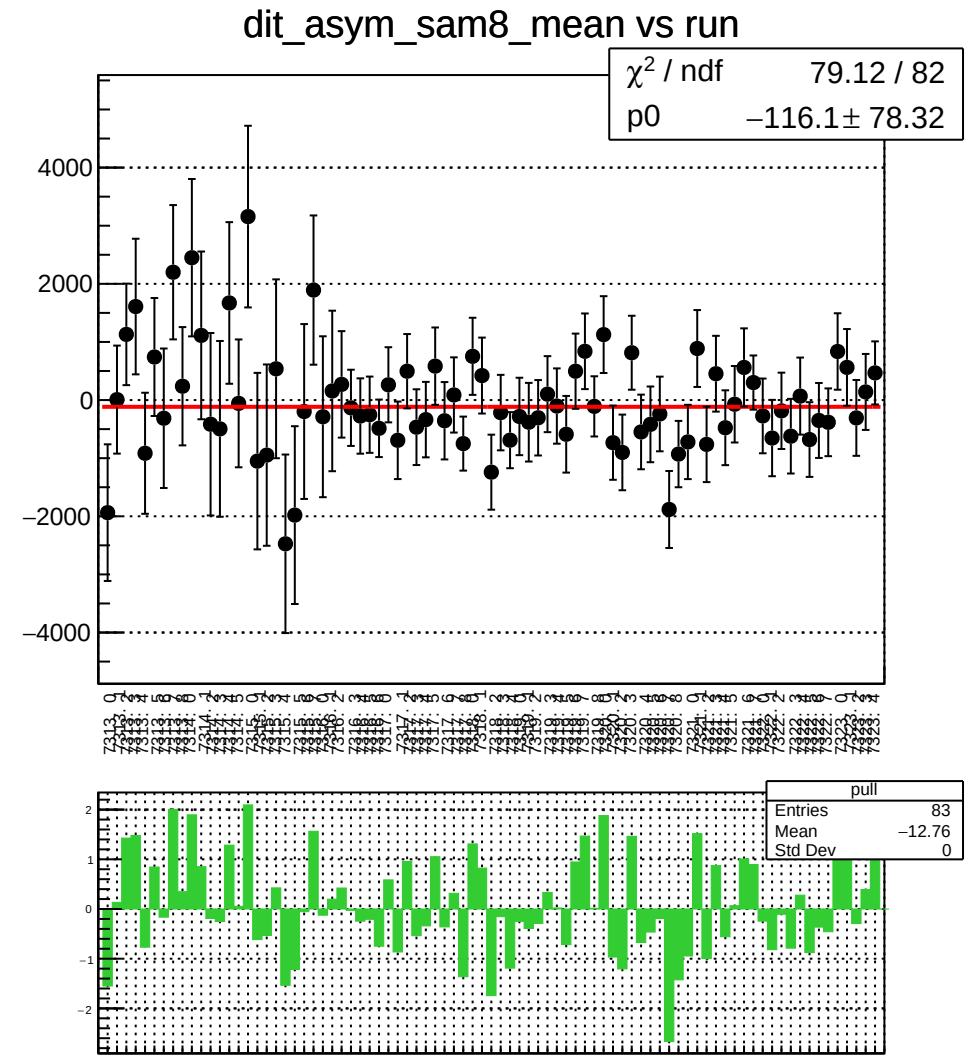

eigen_cor_asym_sam8_mean vs run
χ² / ndf 63.87 / 82
p0 −96.18 ± 65.98
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −139.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

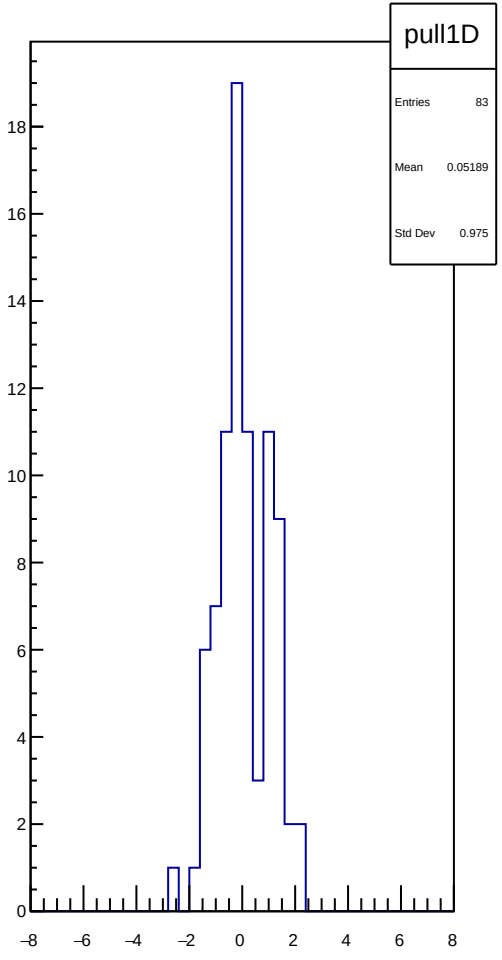

pull1D
Entries 83
Mean 0.01486
Std Dev 0.8771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

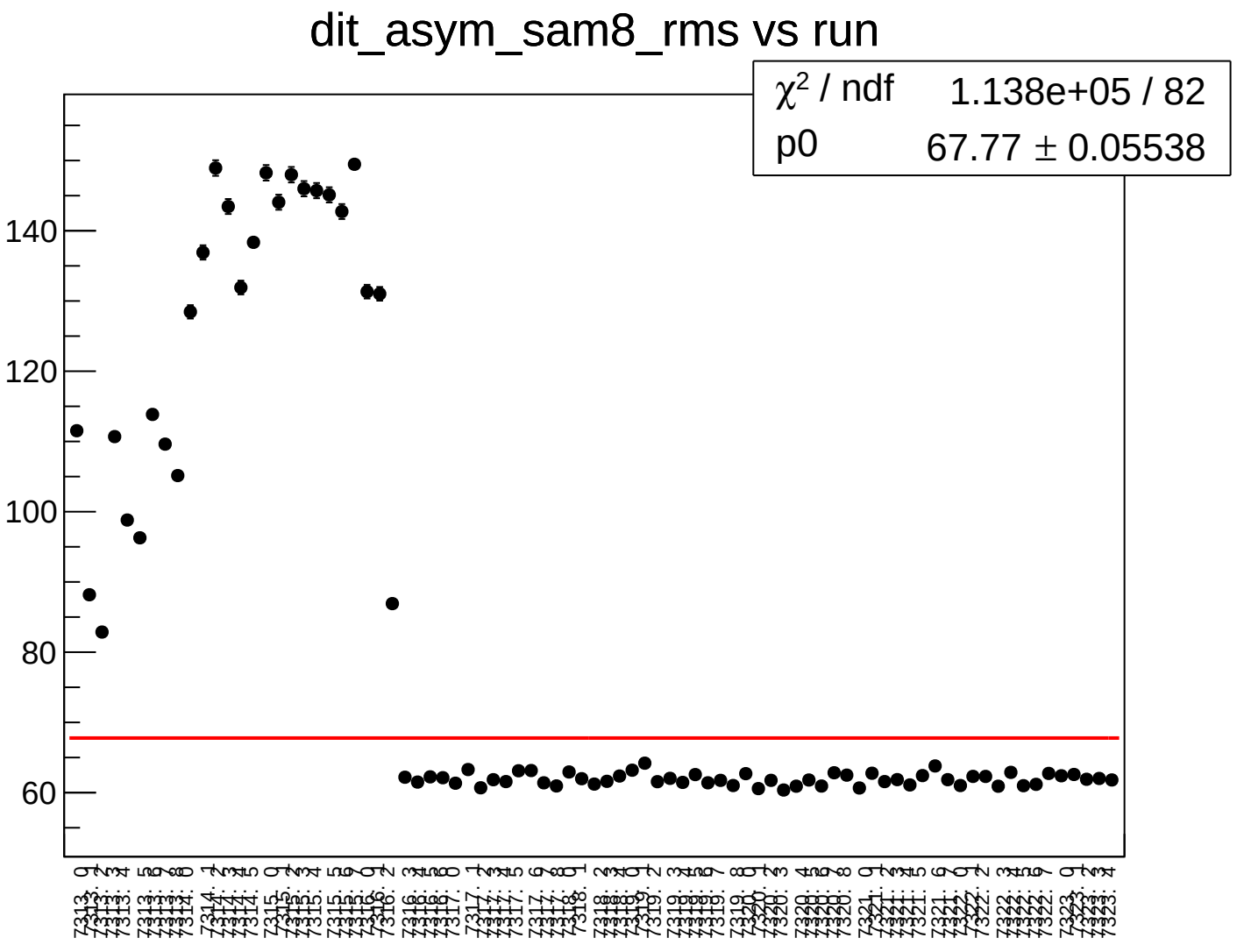

eigen_cor_asym_sam8_rms vs run
χ² / ndf 2.836e+04 / 82
p0 58.7 ± 0.04665
80
75
70
65
60
55

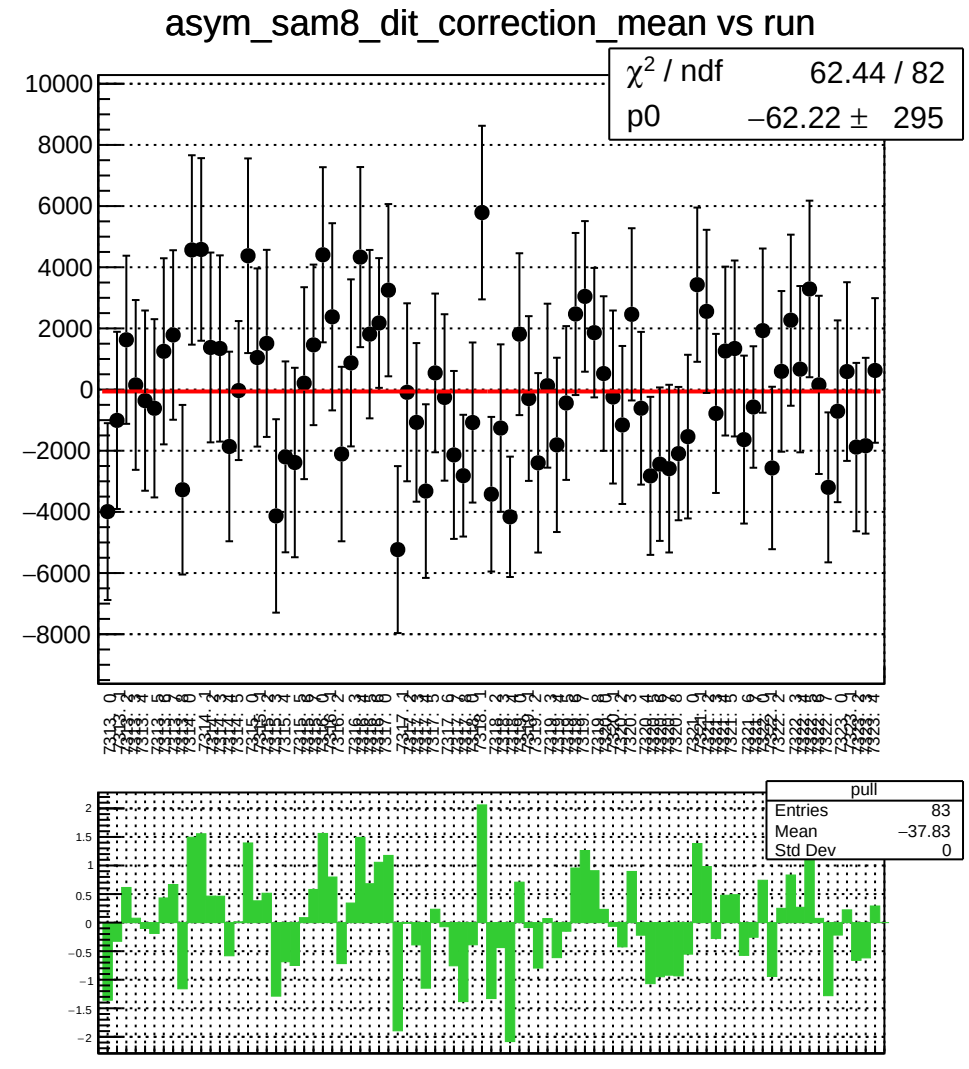

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 57.37 / 82
p0 −94.92 ± 272.2
pull
Entries 83
Mean −24.34
Std Dev 0
pull1D
Entries 83
Mean 0.01887
Std Dev 0.8312

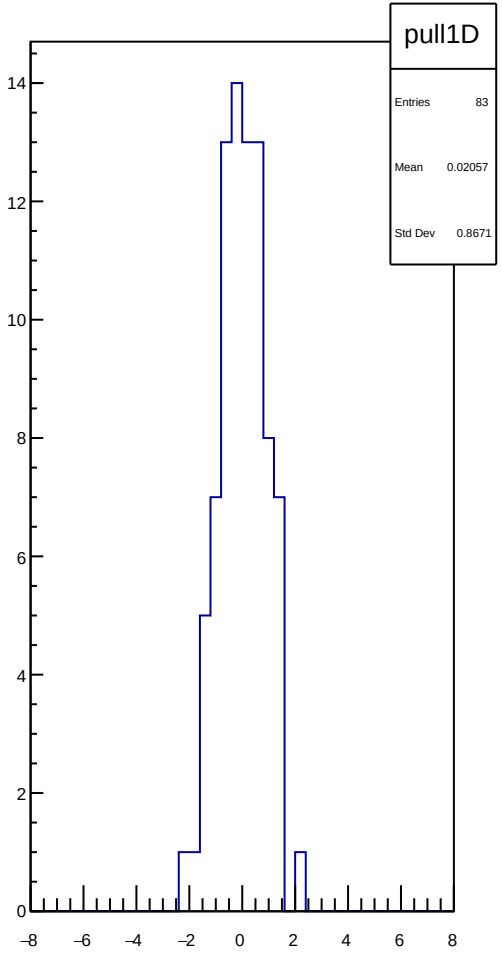

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 6450 / 82
p0 243.8 ± 0.1924
290
280
270
260
250
240
230
220
210

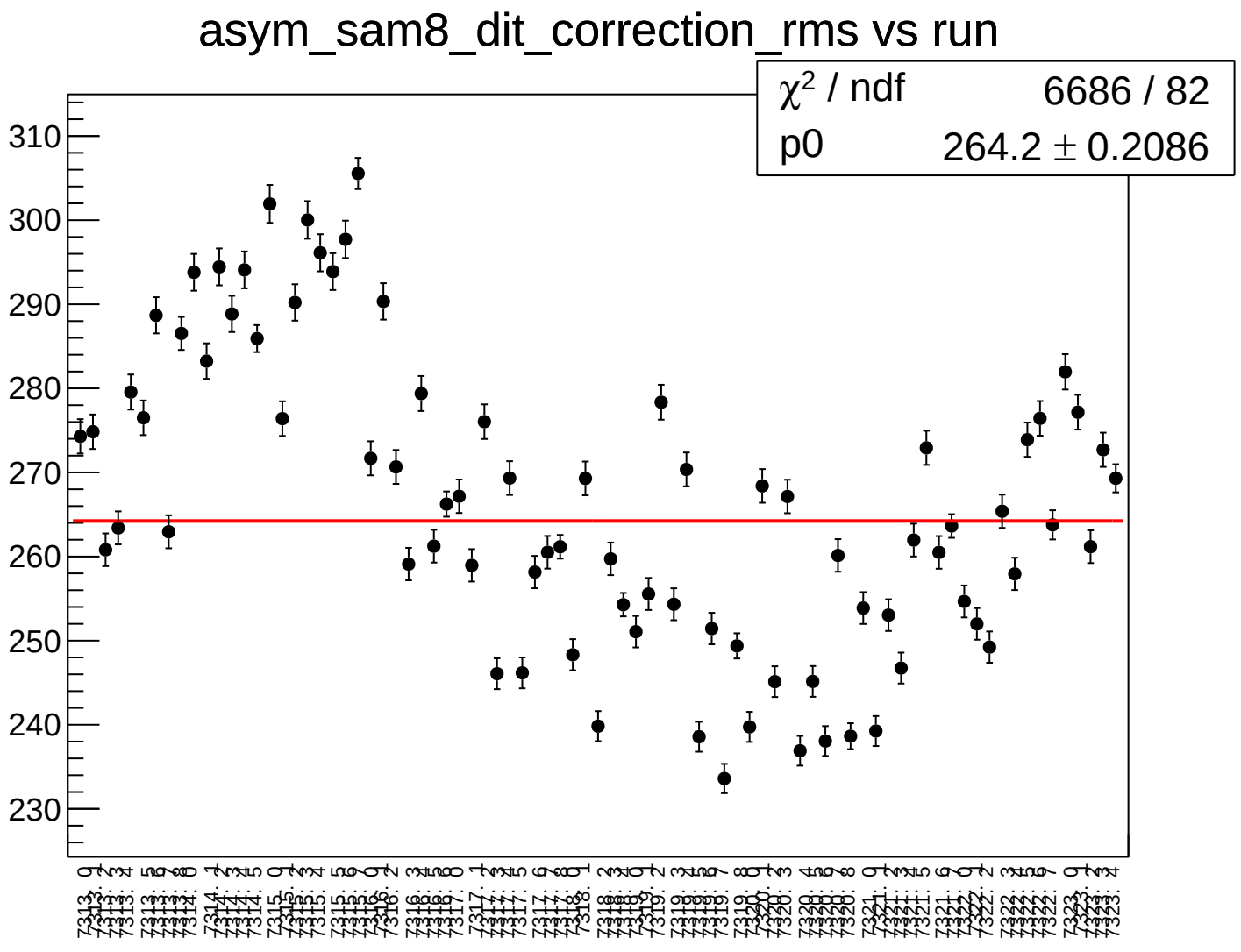

dit_asym_sam8_mean vs run
χ² / ndf 79.12 / 82
p0 −116.1± 78.32
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −12.76
Std Dev 0
2
1
0
−1
−2

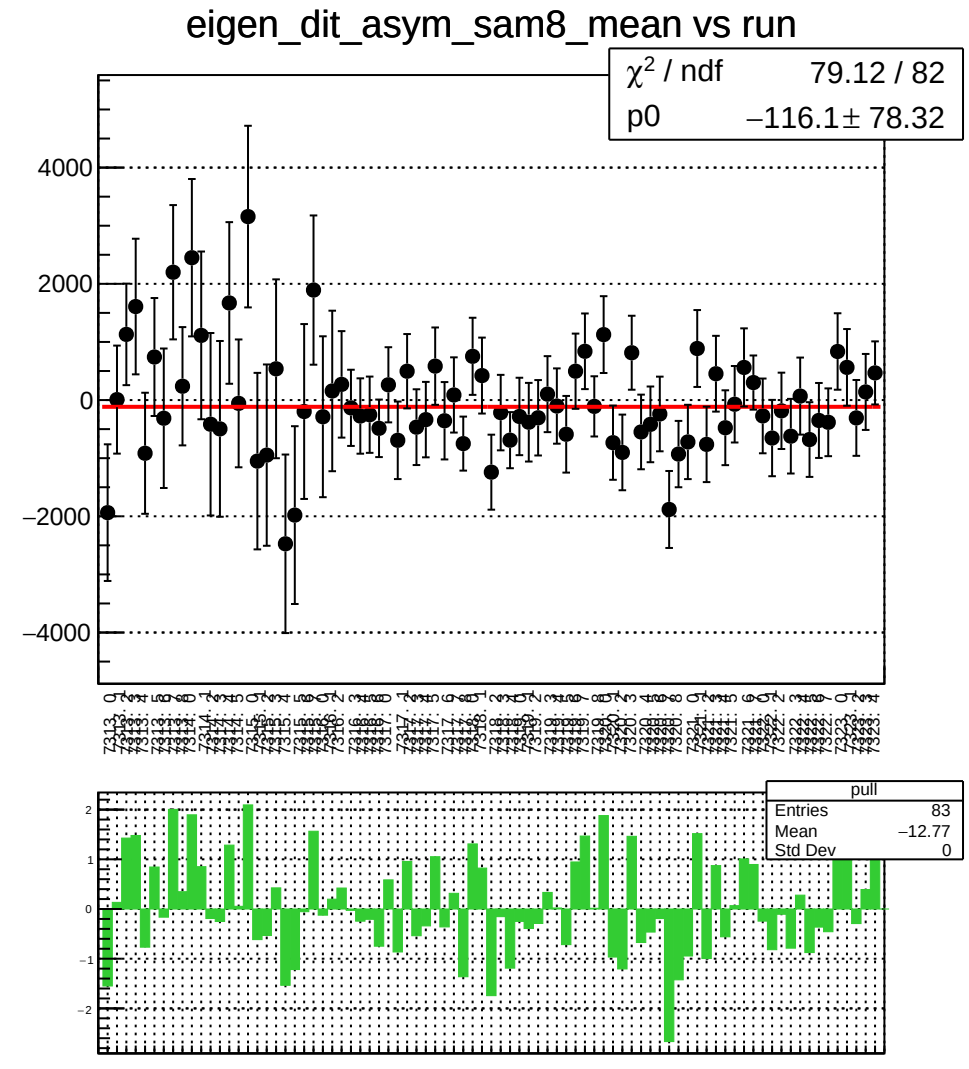

pull1D
Entries 83
Mean 0.05189
Std Dev 0.975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

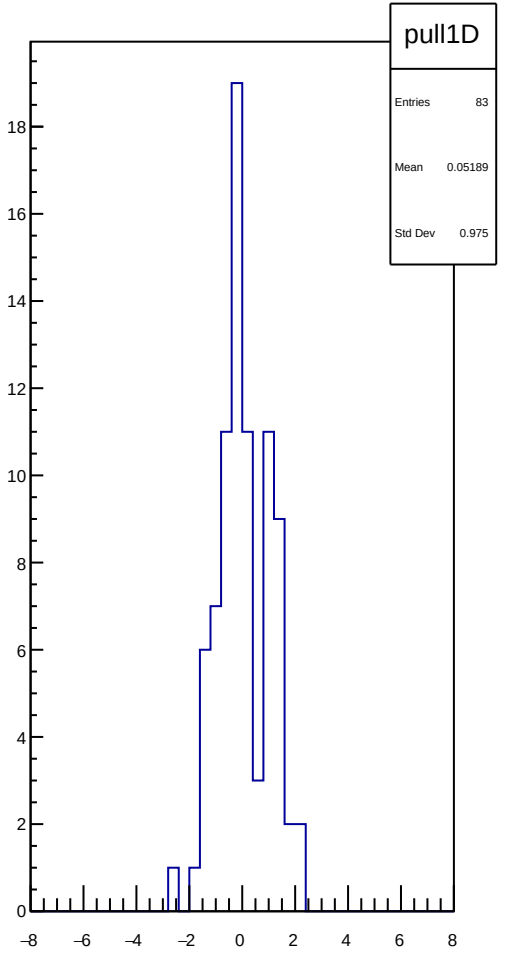

dit_asym_sam8_rms vs run
χ² / ndf 1.138e+05 / 82
p0 67.77 ± 0.05538
140
120
100
80
60

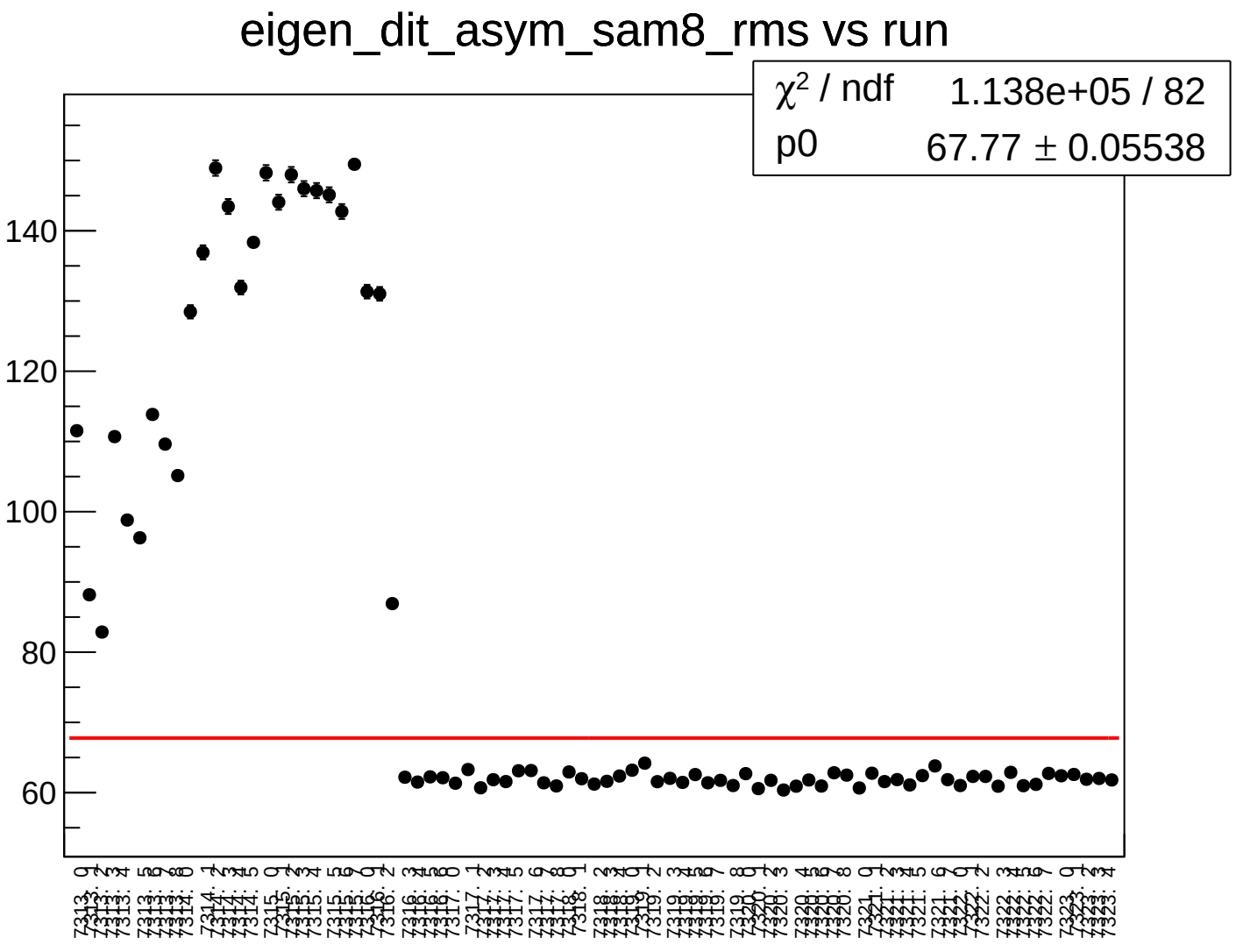

asym_sam8_dit_correction_mean vs run
χ² / ndf 62.44 / 82
p0 −62.22 ± 295
pull
Entries 83
Mean −37.83
Std Dev 0

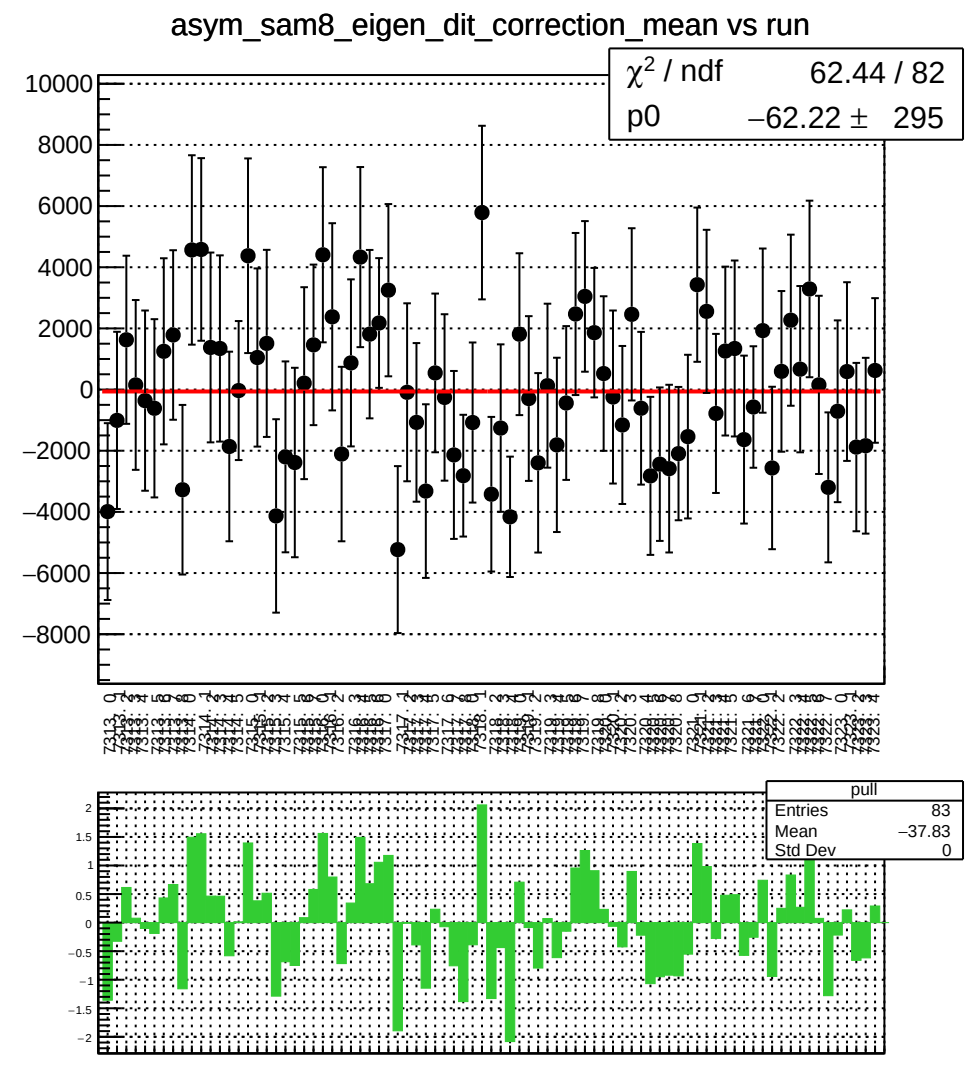

pull1D
Entries 83
Mean 0.02057
Std Dev 0.8671

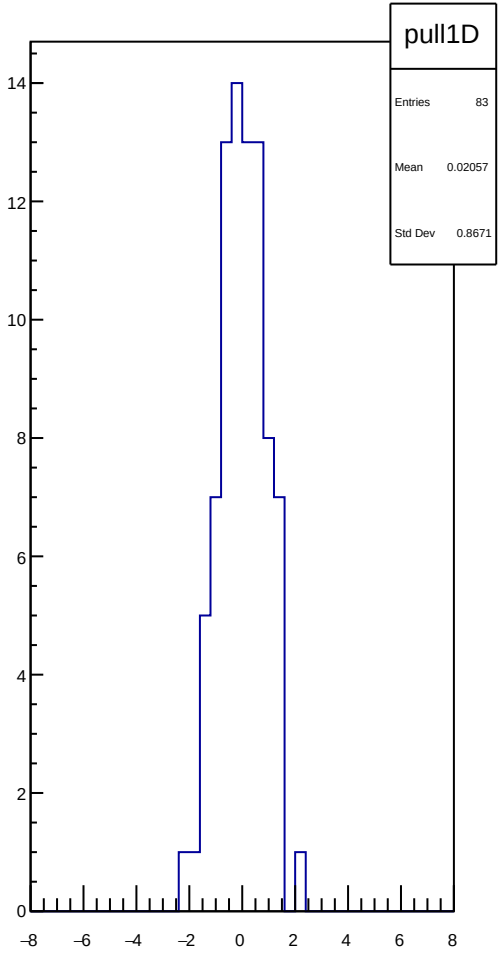

asym_sam8_dit_correction_rms vs run
χ² / ndf 6686 / 82
p0 264.2 ± 0.2086
310
300
290
280
270
260
250
240
230

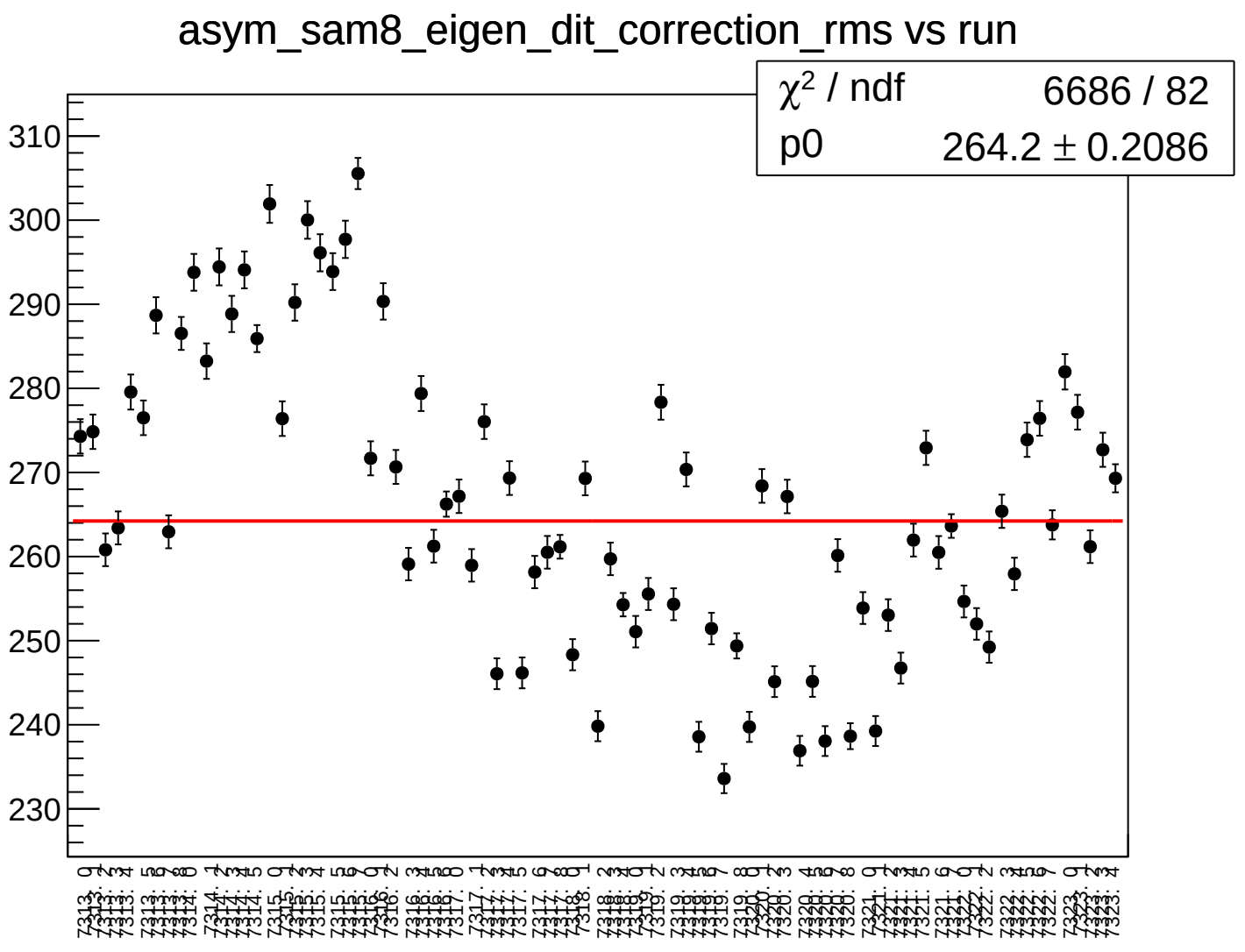

eigen_dit_asym_sam8_mean vs run
χ² / ndf 79.12 / 82
p0 −116.1± 78.32
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −12.77
Std Dev 0
2
1
0
−1
−2

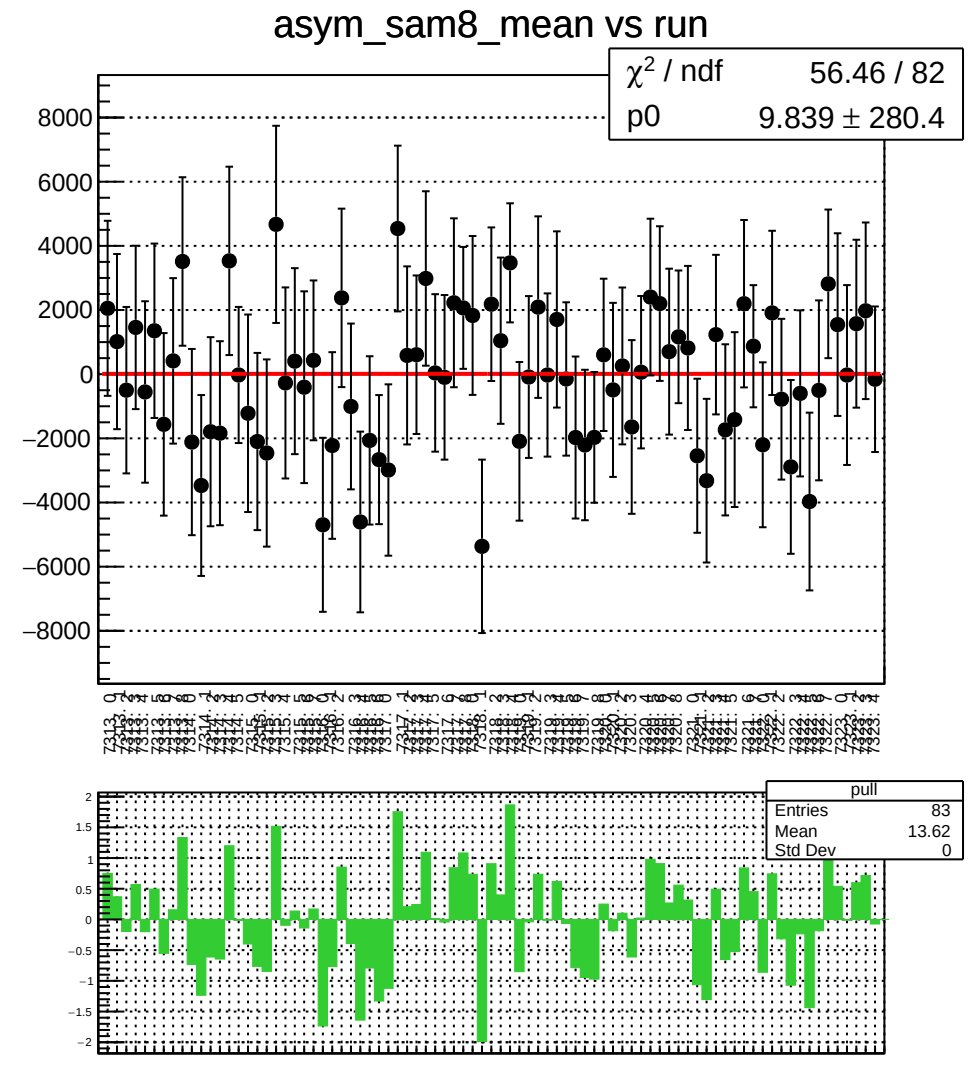

pull1D
Entries 83
Mean 0.05189
Std Dev 0.975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

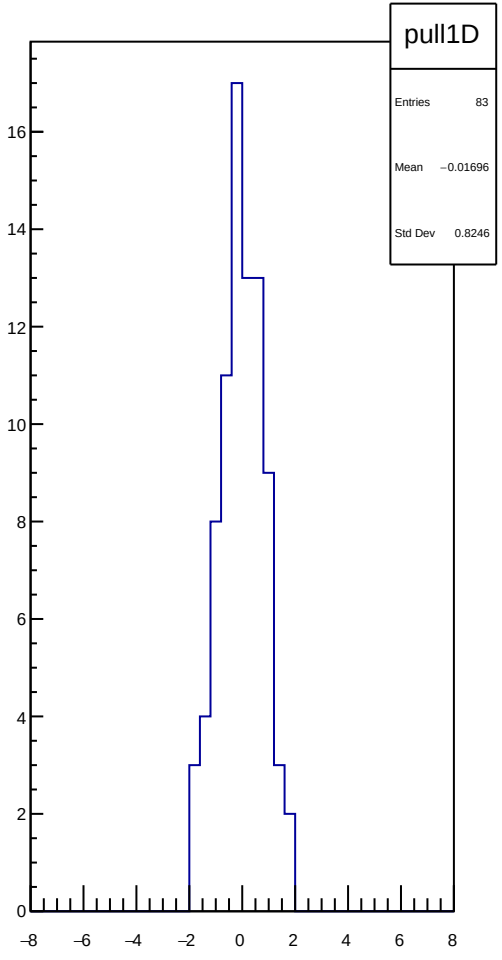

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.138e+05 / 82
p0 67.77 ± 0.05538
140
120
100
80
60

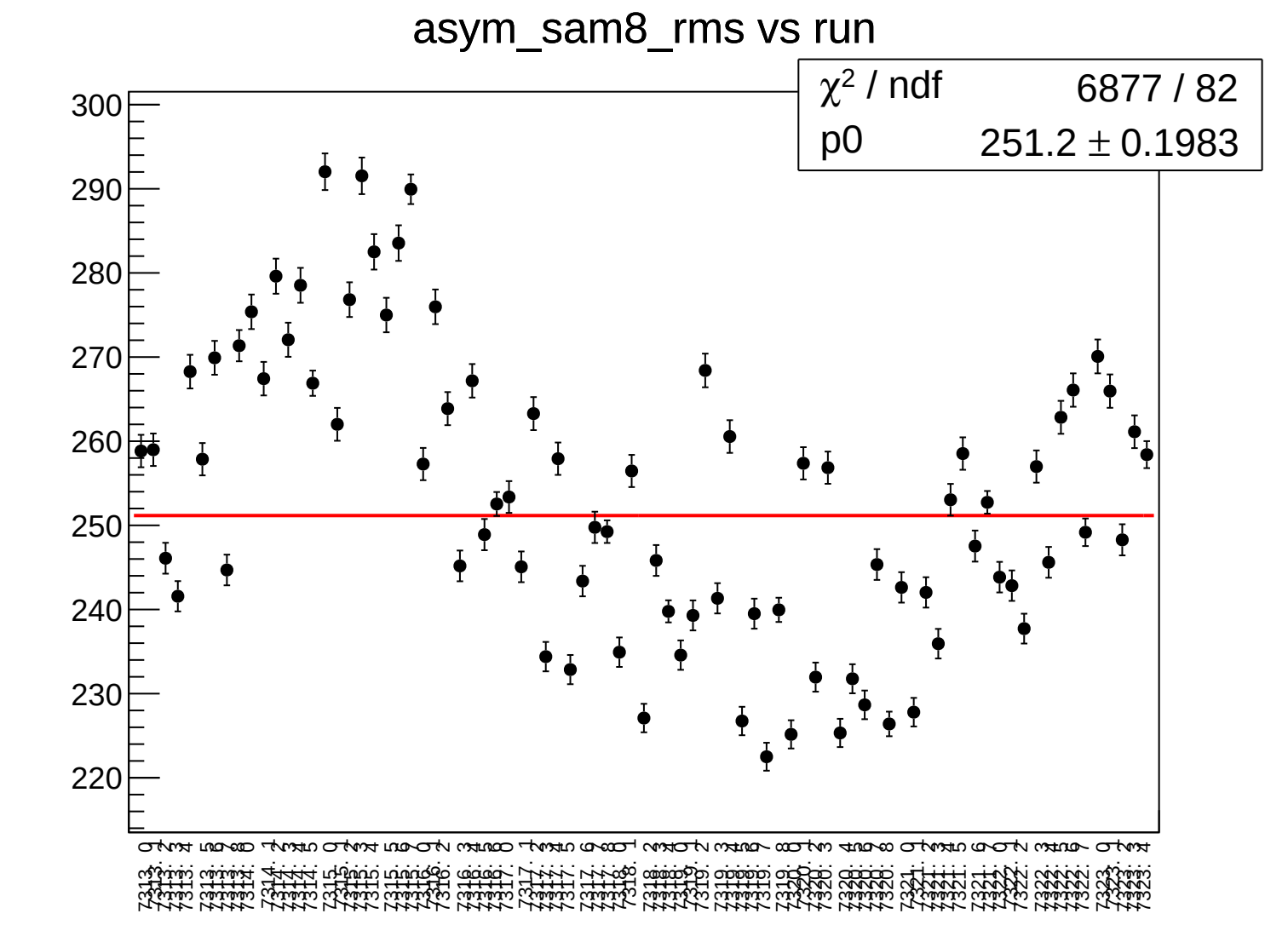

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 62.44 / 82
p0 −62.22 ± 295
pull
Entries 83
Mean −37.83
Std Dev 0

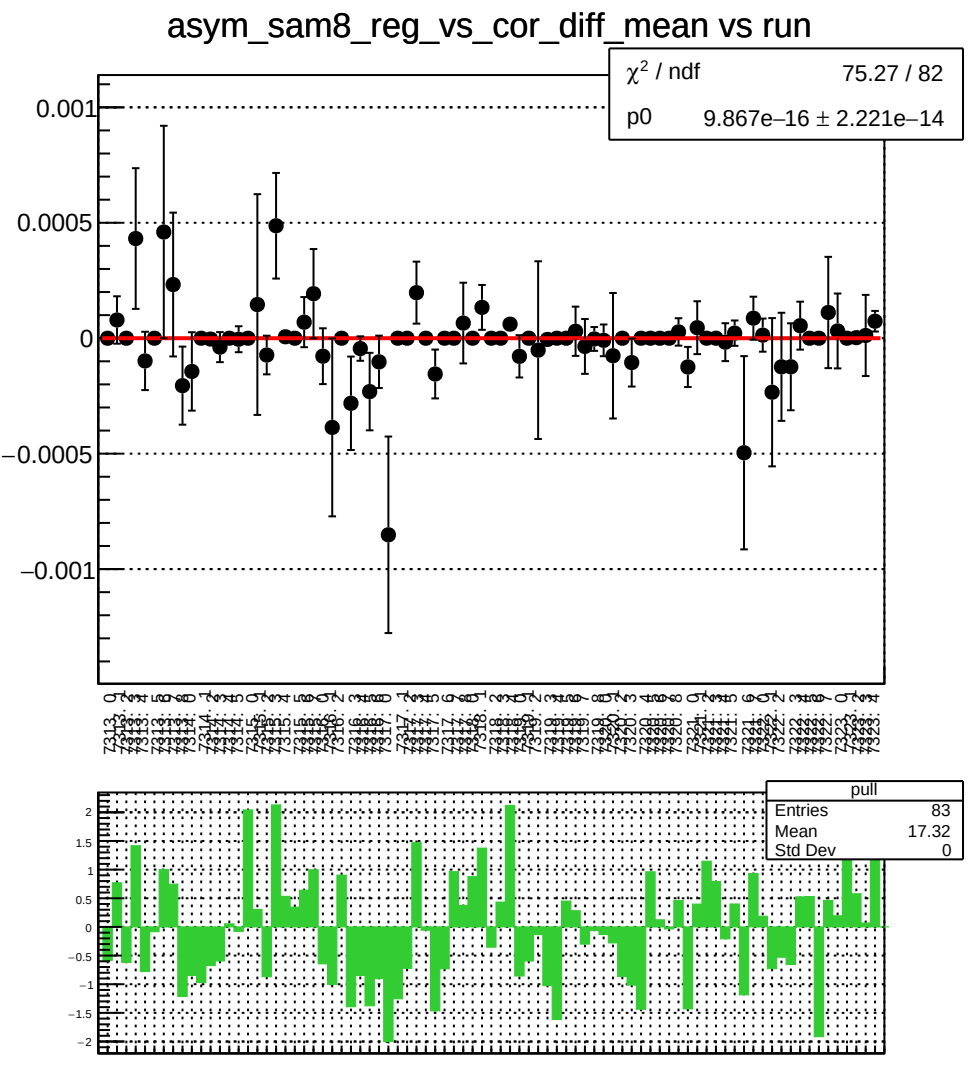

pull1D
Entries 83
Mean 0.02057
Std Dev 0.8671

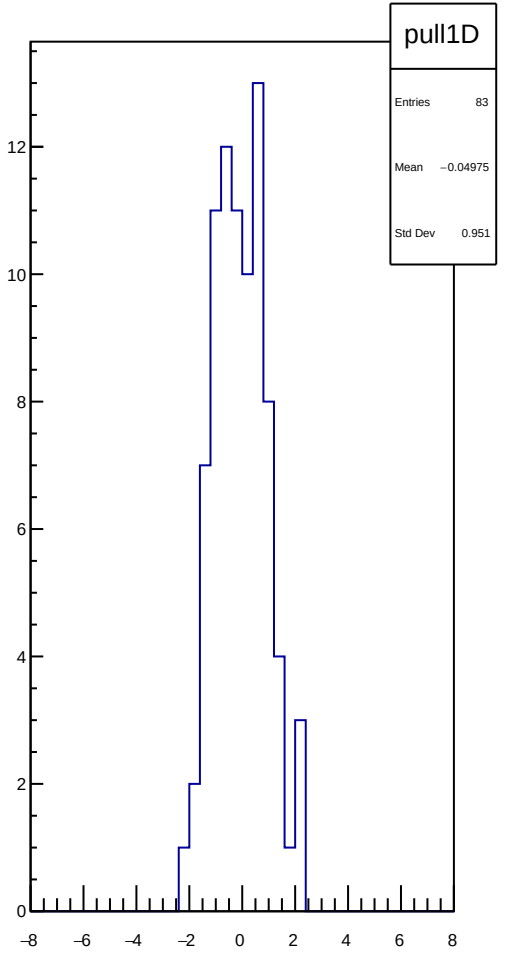

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 6686 / 82
p0 264.2 ± 0.2086
310
300
290
280
270
260
250
240
230

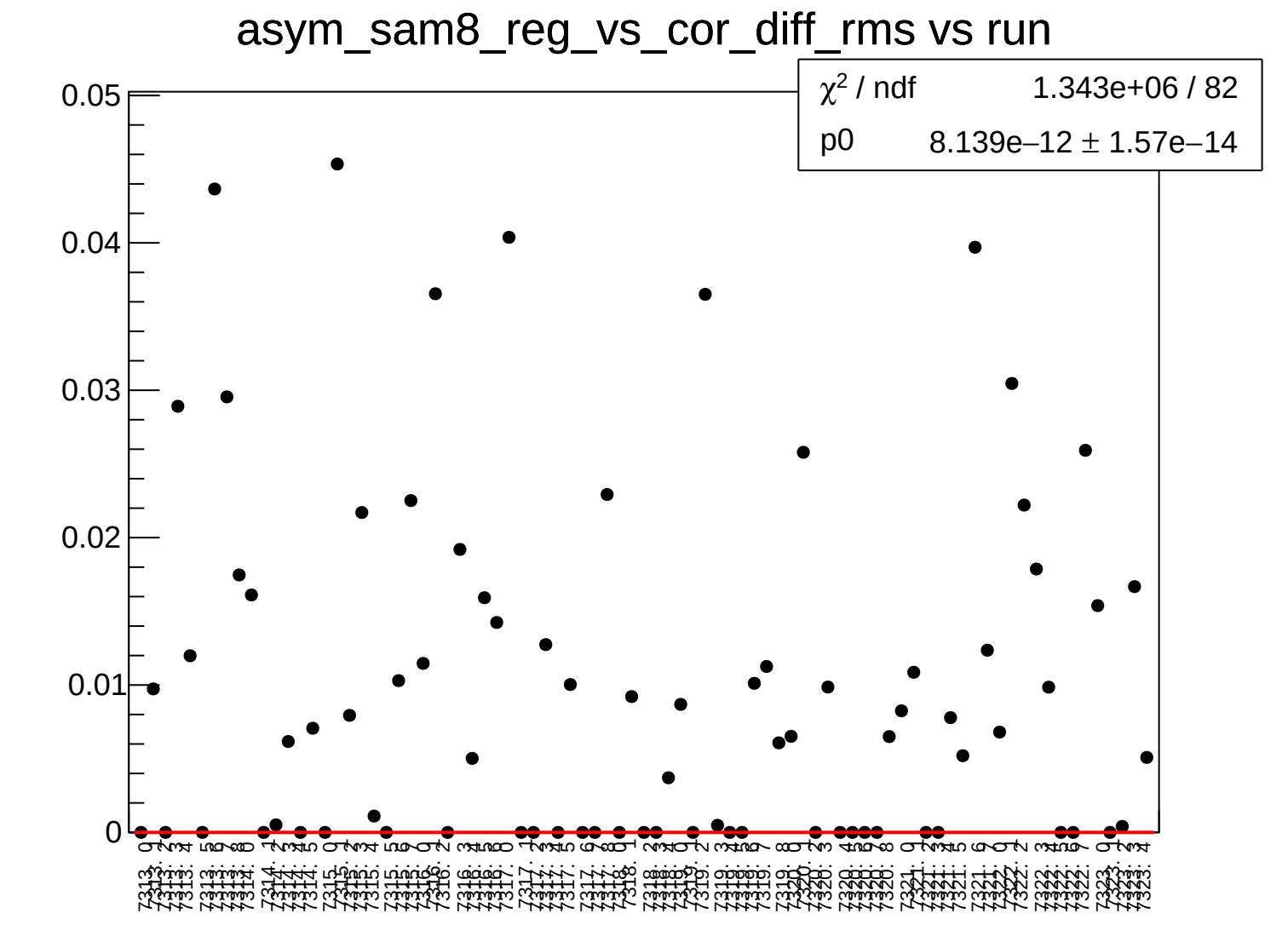

asym_sam8_mean vs run
χ² / ndf 56.46 / 82
p0 9.839 ± 280.4
pull
Entries 83
Mean 13.62
Std Dev 0

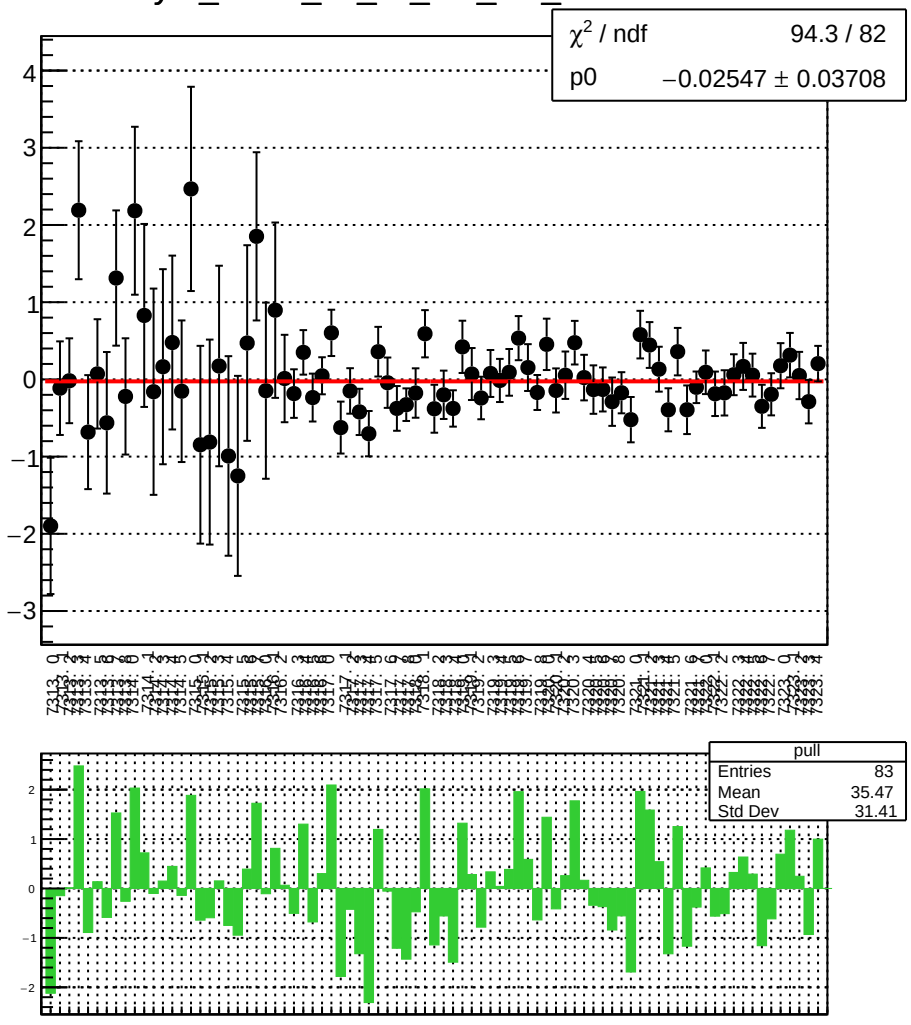

pull1D
Entries 83
Mean −0.01696
Std Dev 0.8246

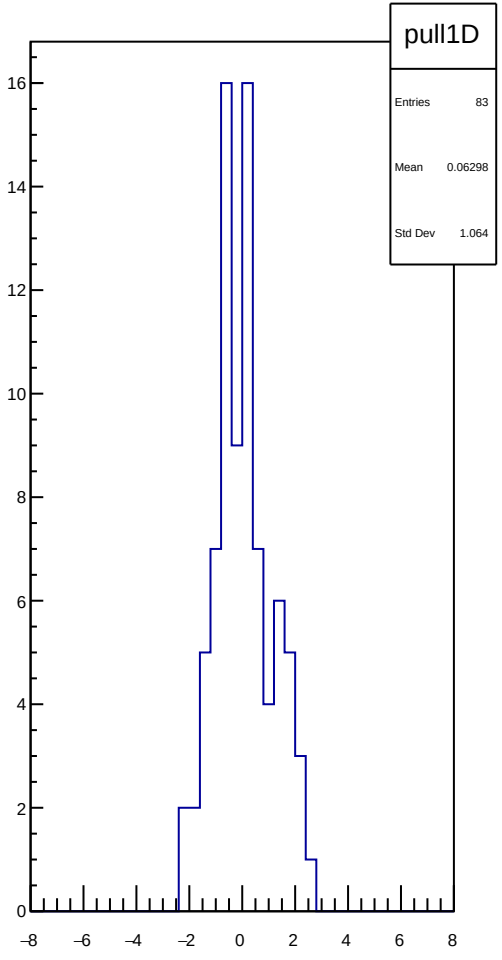

asym_sam8_rms vs run
χ² / ndf 6877 / 82
p0 251.2 ± 0.1983
300
290
280
270
260
250
240
230
220

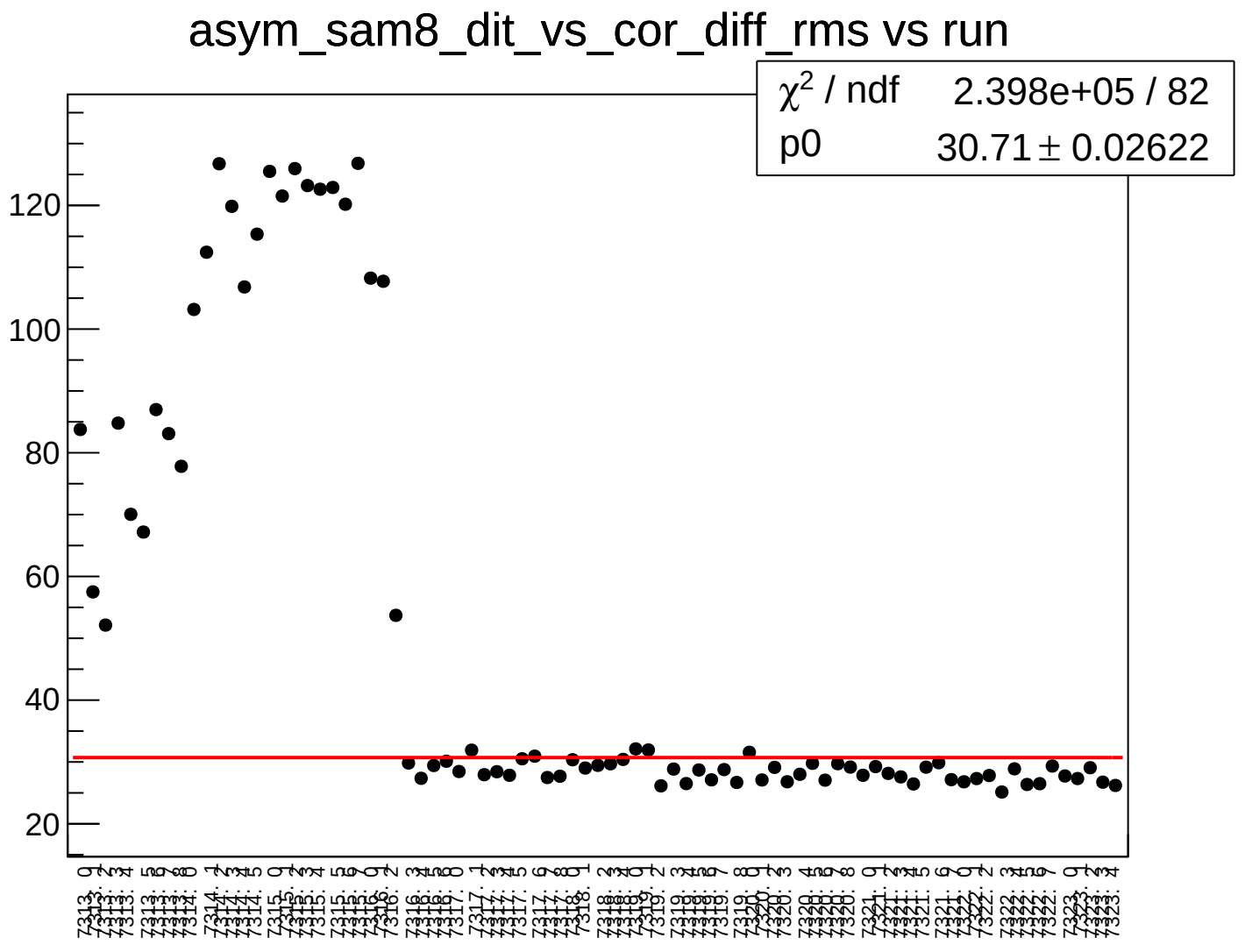

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 75.27 / 82
p0 9.867e−16 ± 2.221e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 17.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

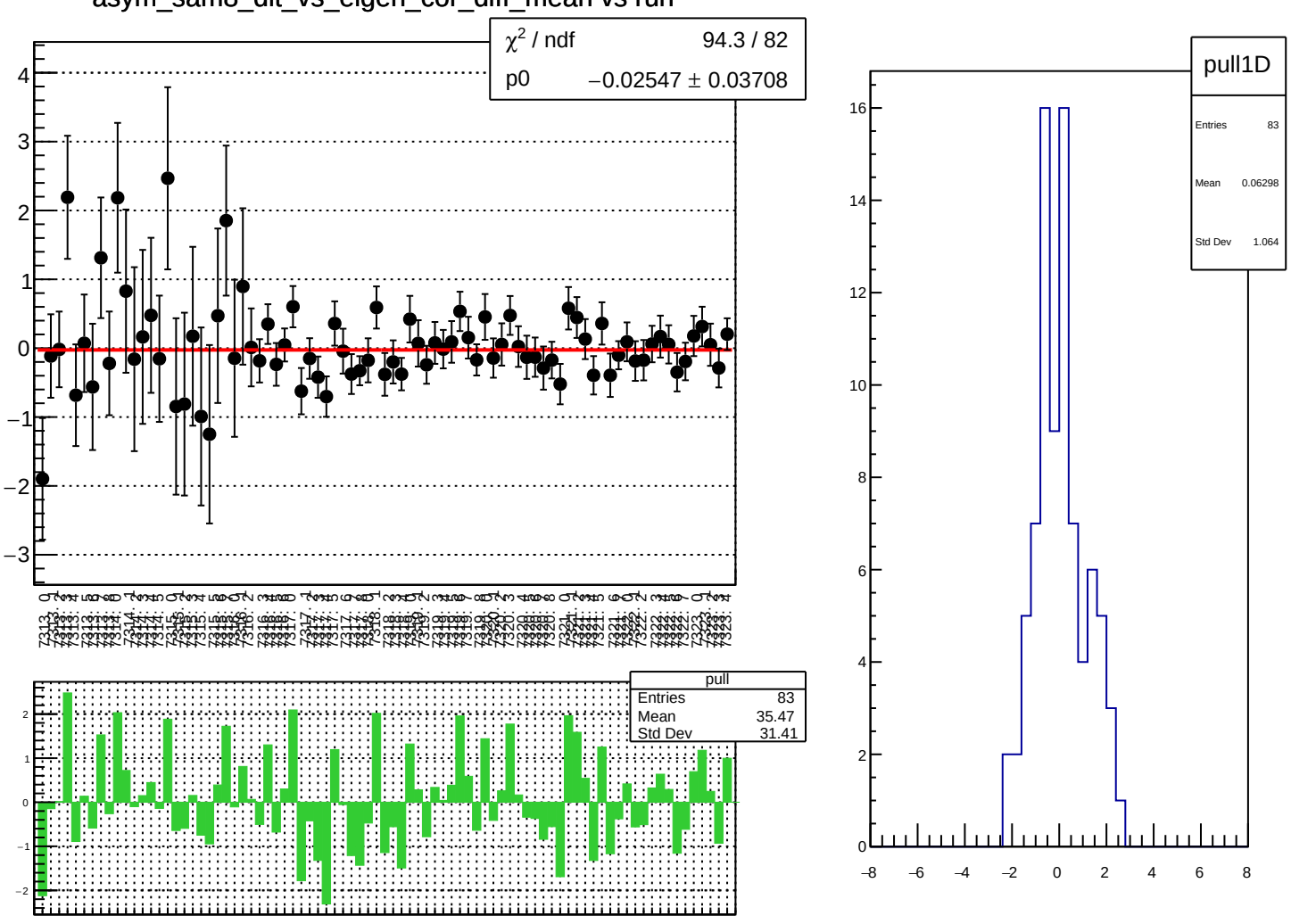

pull1D
Entries 83
Mean −0.04975
Std Dev 0.951
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

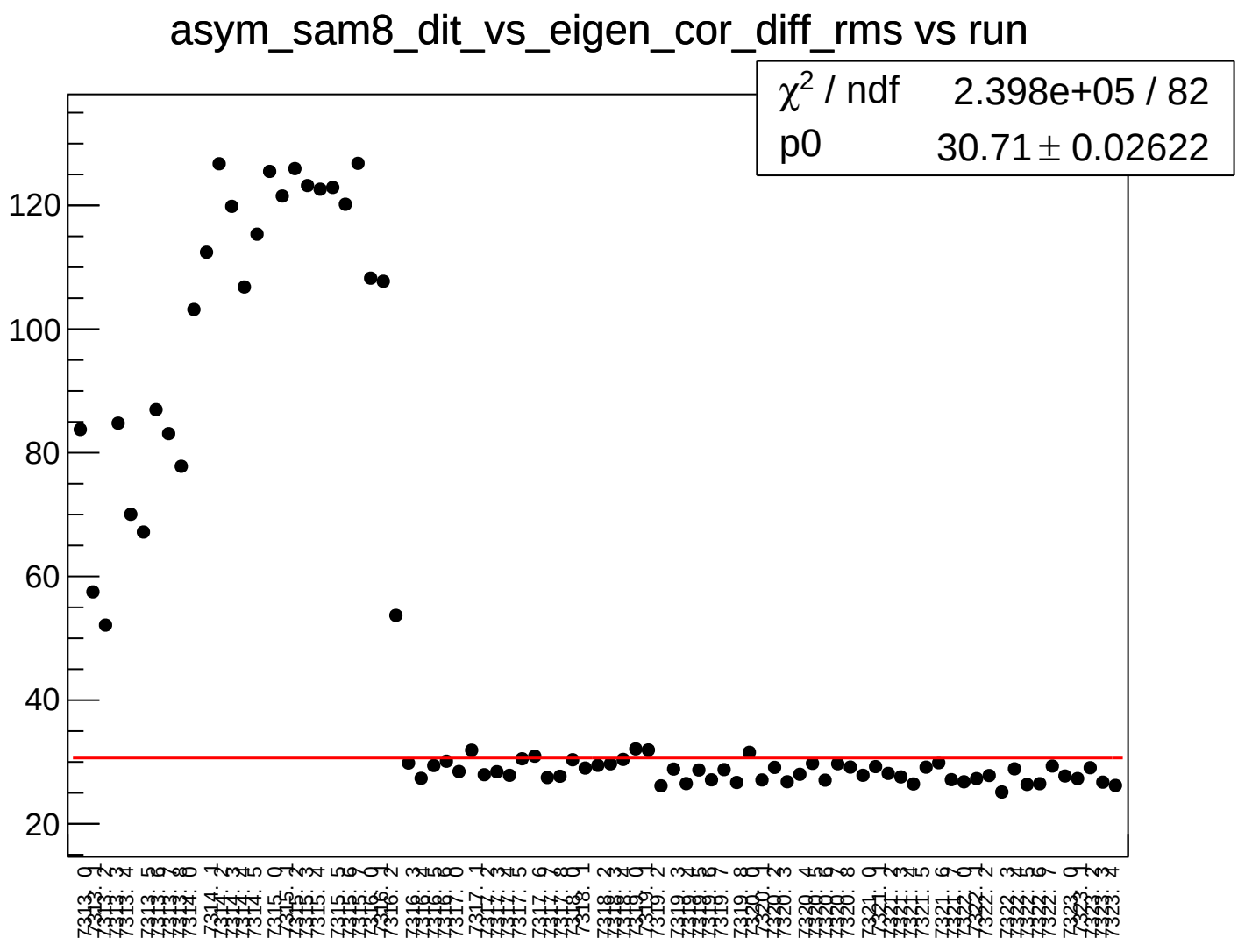

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.343e+06 / 82
p0 8.139e−12 ± 1.57e−14
0.05
0.04
0.03
0.02
0.01
0

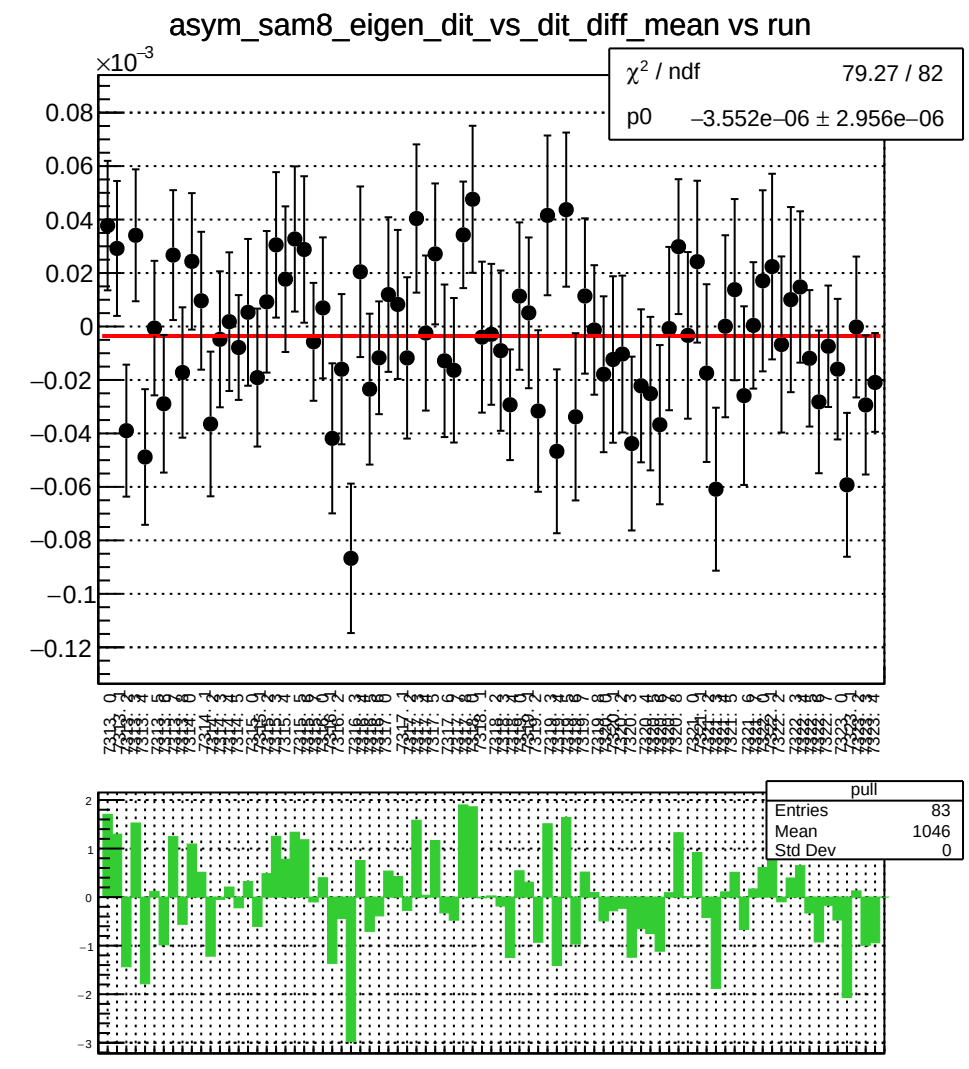

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 94.3 / 82
p0 −0.02547 ± 0.03708
pull
Entries 83
Mean 35.47
Std Dev 31.41

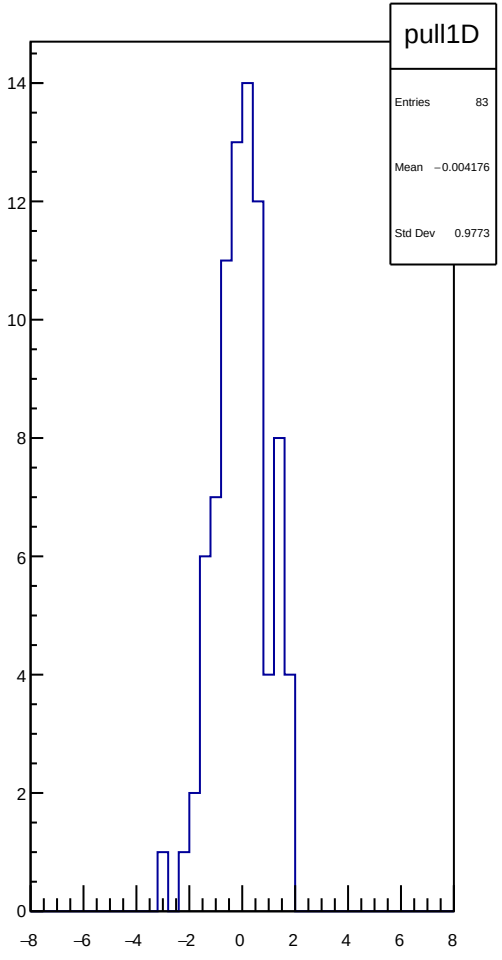

pull1D
Entries 83
Mean 0.06298
Std Dev 1.064

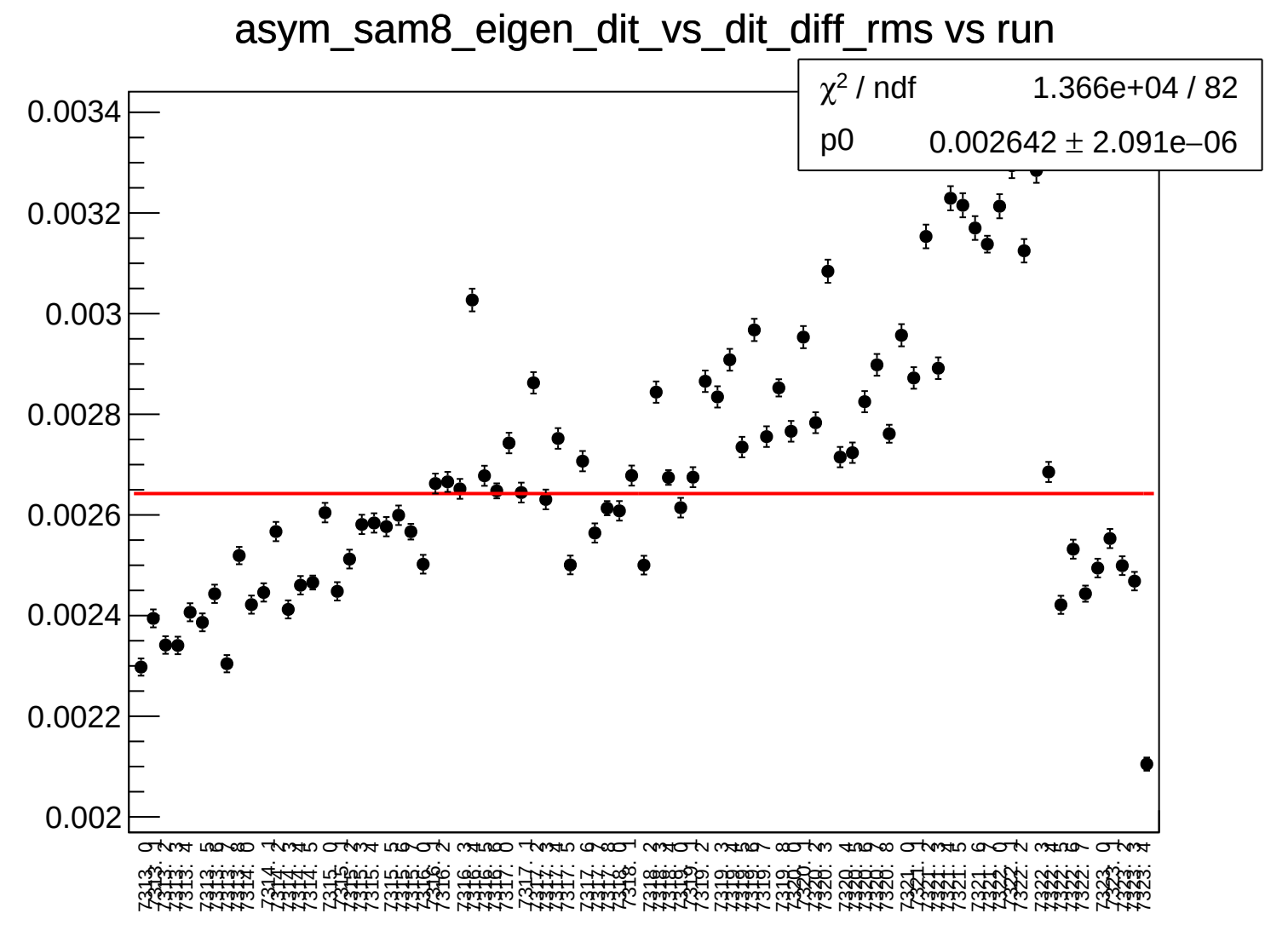

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.398e+05 / 82
p0 30.71 ± 0.02622
120
100
80
60
40
20

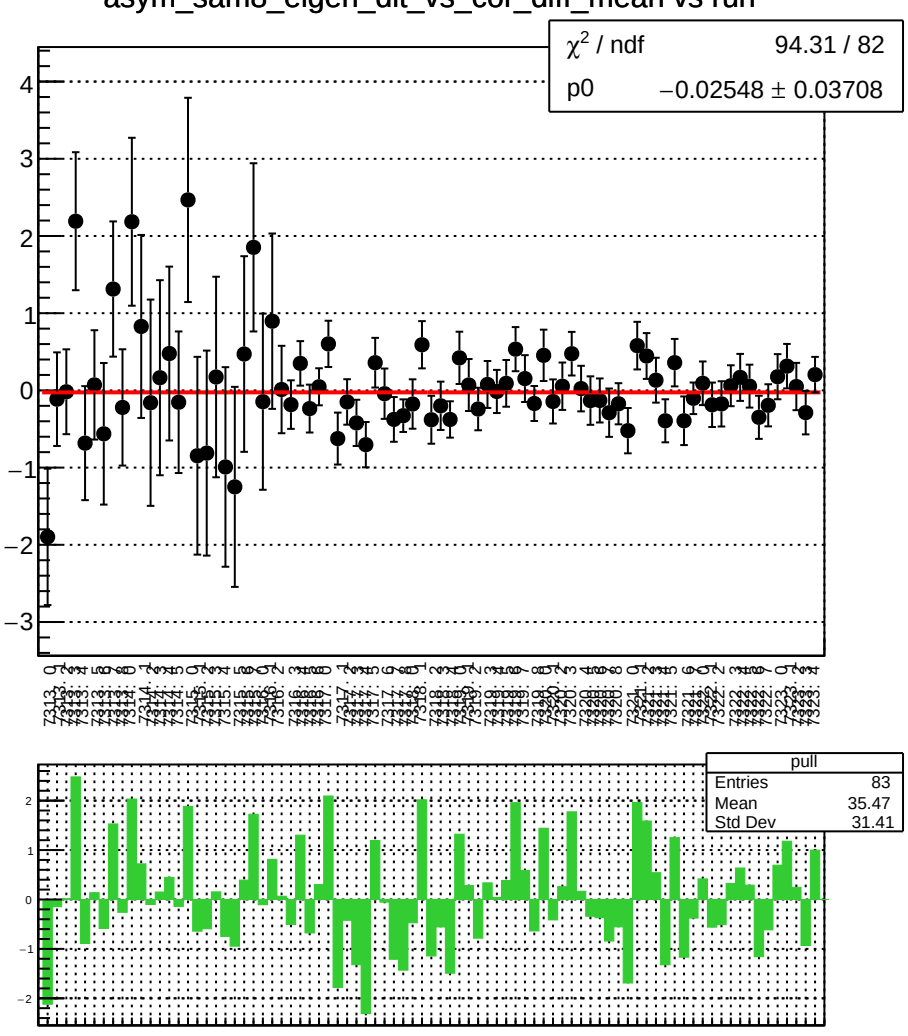

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.3 / 82
p0 −0.02547 ± 0.03708
pull
Entries 83
Mean 35.47
Std Dev 31.41
pull1D
Entries 83
Mean 0.06298
Std Dev 1.064

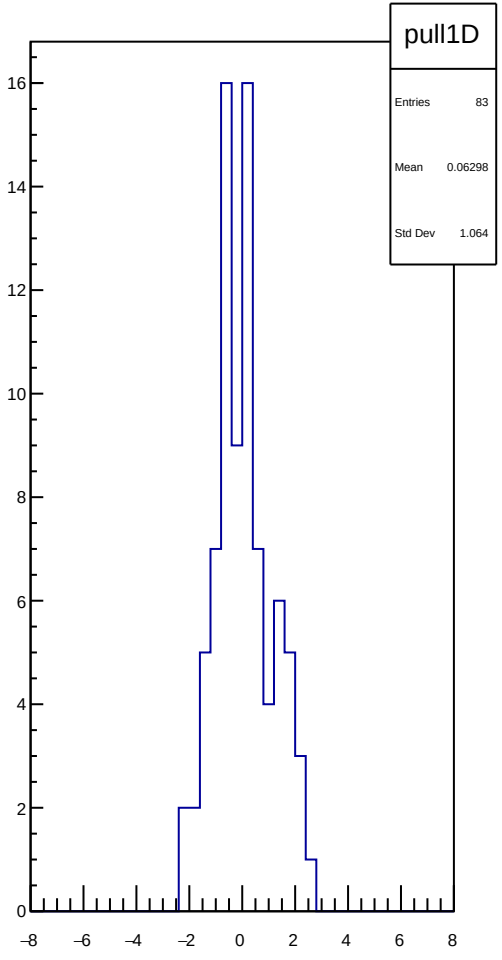

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.398e+05 / 82
p0 30.71 ± 0.02622
120
100
80
60
40
20

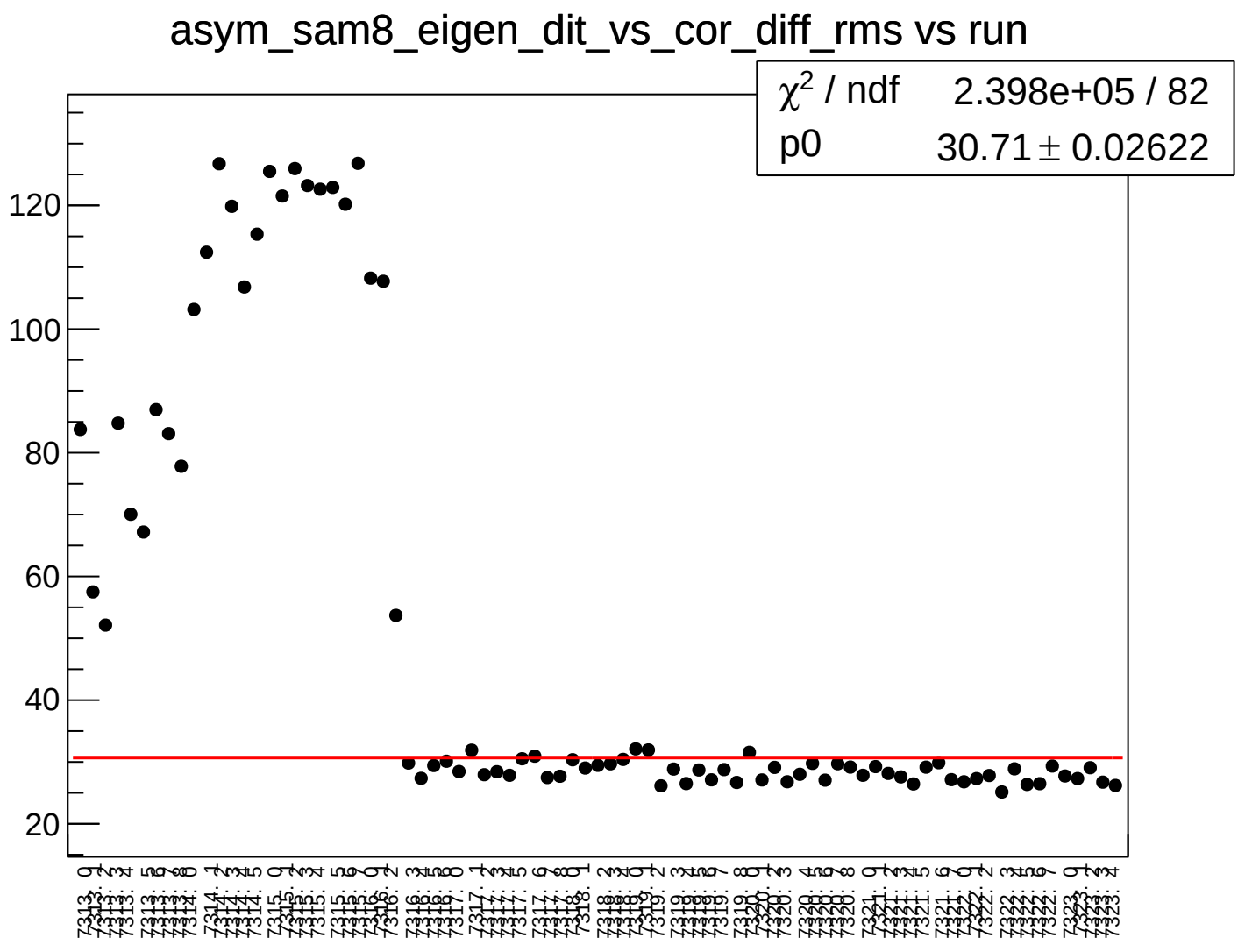

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.27 / 82
p0 −3.552e−06 ± 2.956e−06
pull
Entries 83
Mean 1046
Std Dev 0

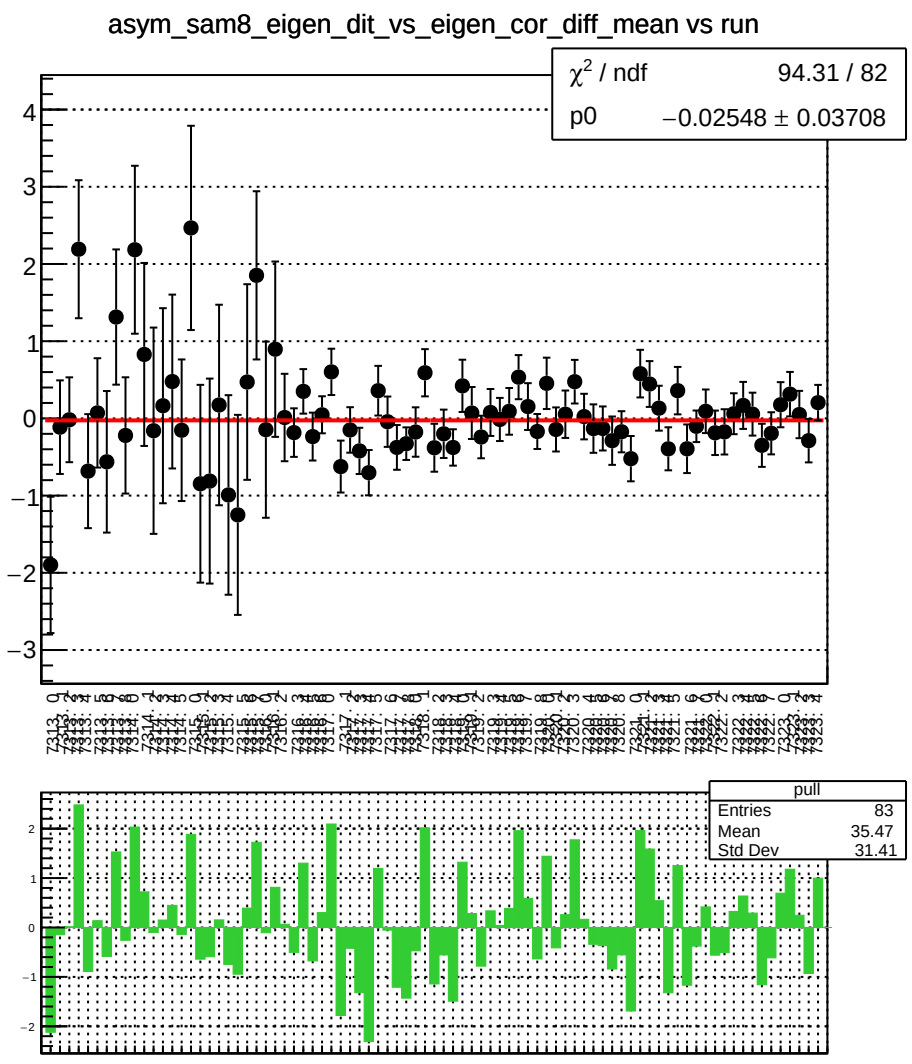

pull1D
Entries 83
Mean −0.004176
Std Dev 0.9773

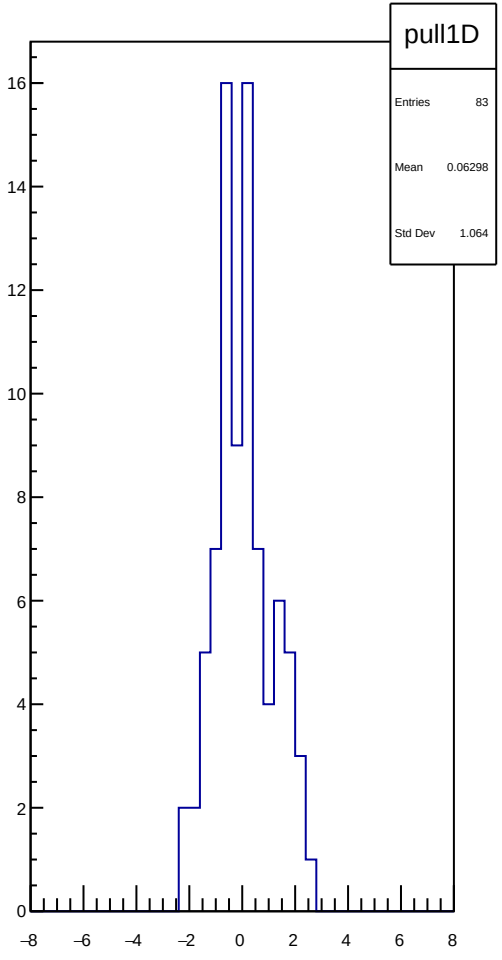

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.366e+04 / 82
p0 0.002642 ± 2.091e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

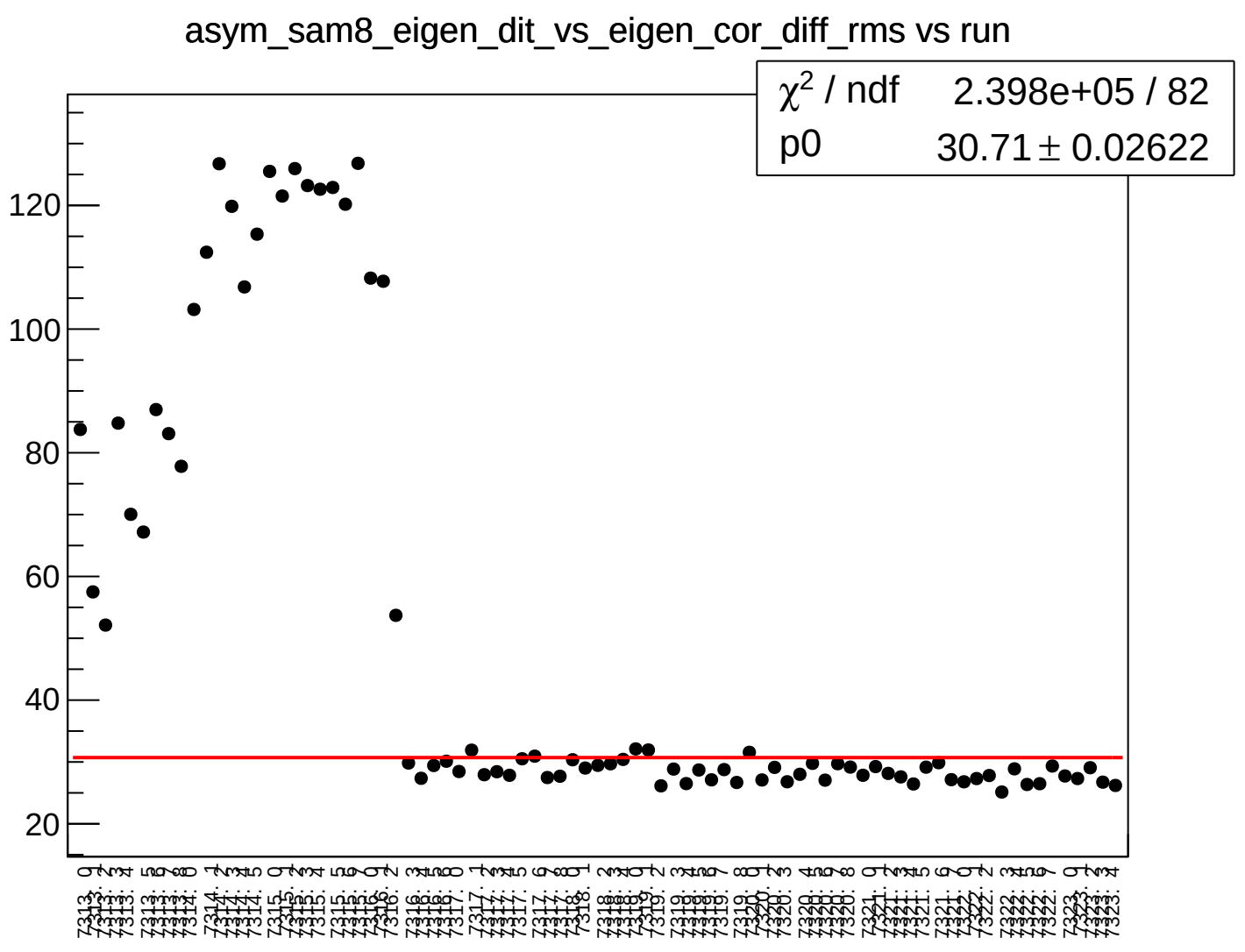

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.31 / 82
p0 −0.02548 ± 0.03708
pull
Entries 83
Mean 35.47
Std Dev 31.41

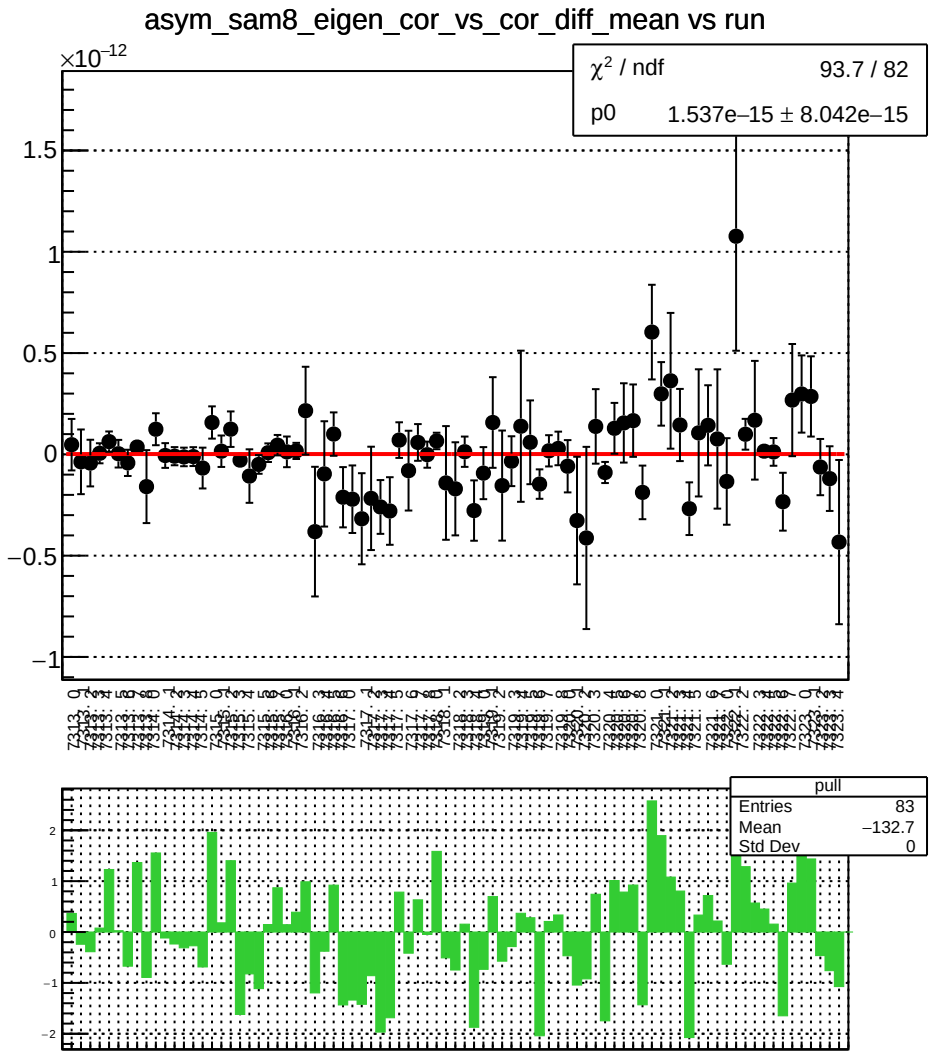

pull1D
Entries 83
Mean 0.06298
Std Dev 1.064

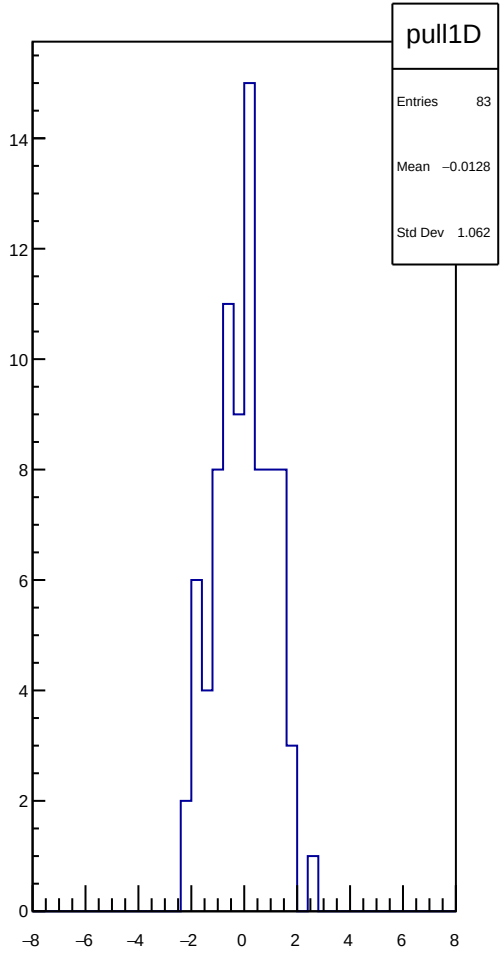

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.398e+05 / 82
p0 30.71 ± 0.02622
120
100
80
60
40
20

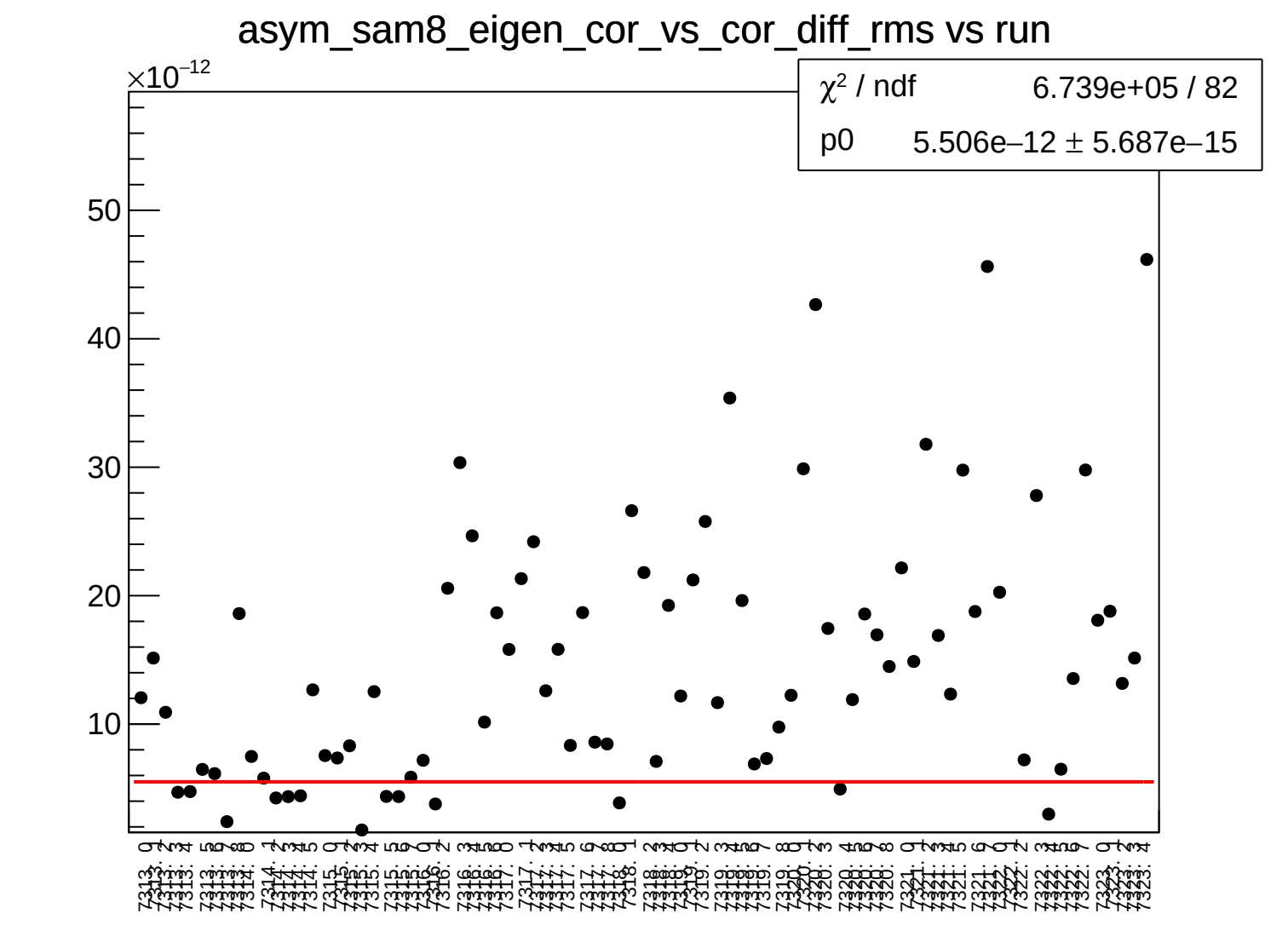

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.31 / 82
p0 −0.02548 ± 0.03708
pull
Entries 83
Mean 35.47
Std Dev 31.41

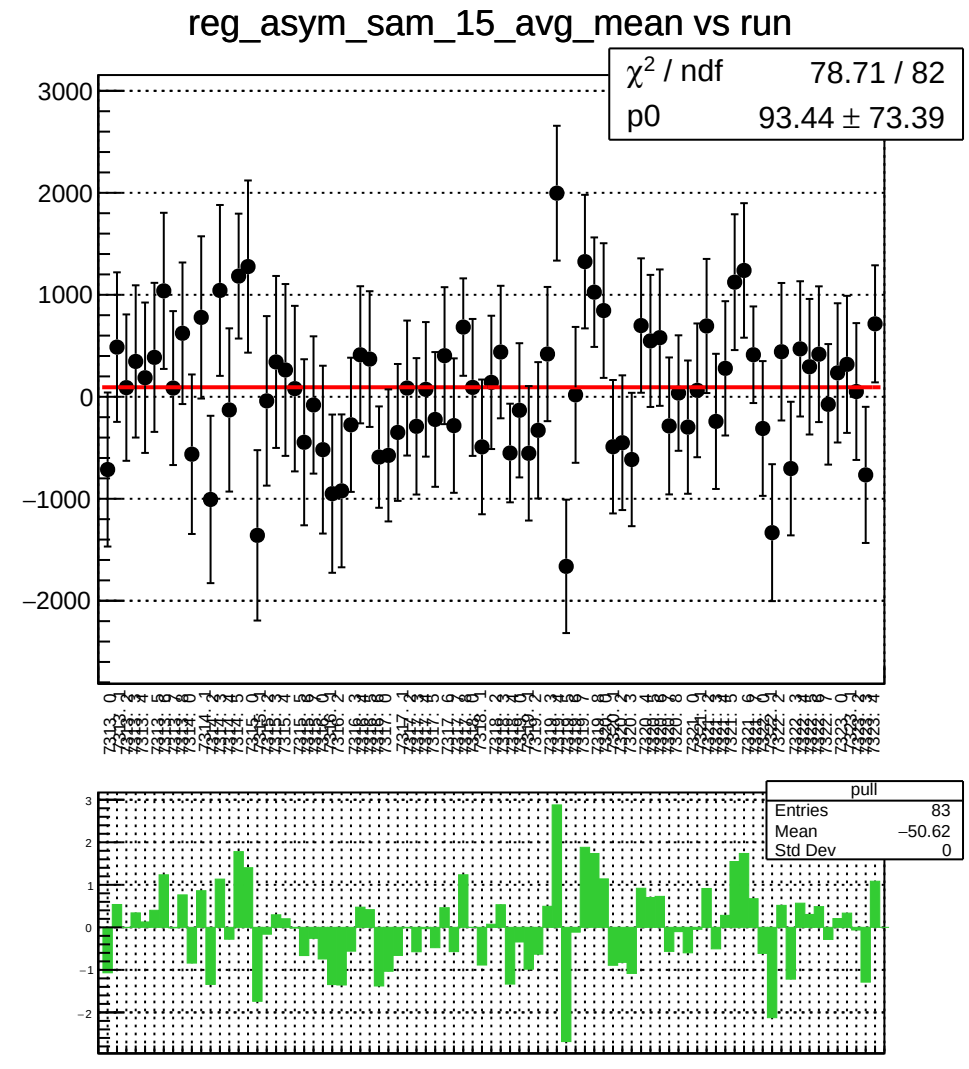

pull1D
Entries 83
Mean 0.06298
Std Dev 1.064

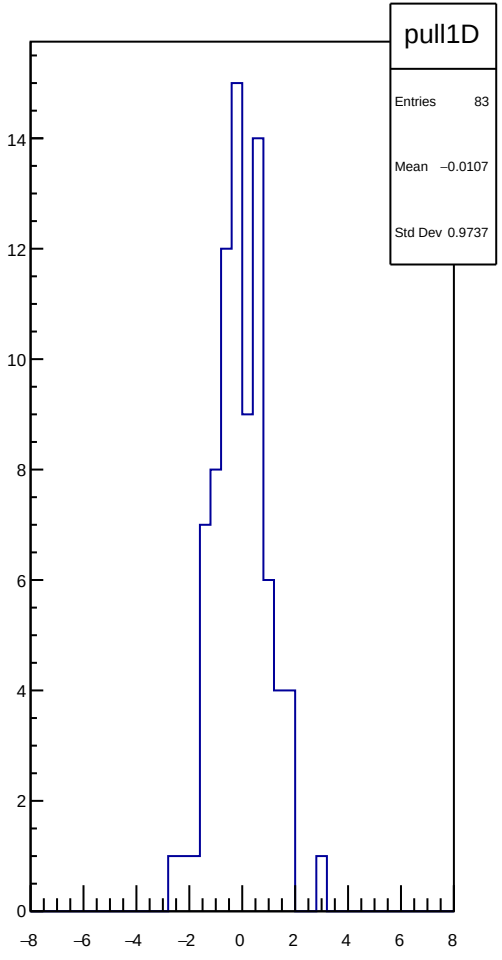

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.398e+05 / 82
p0 30.71 ± 0.02622
120
100
80
60
40
20

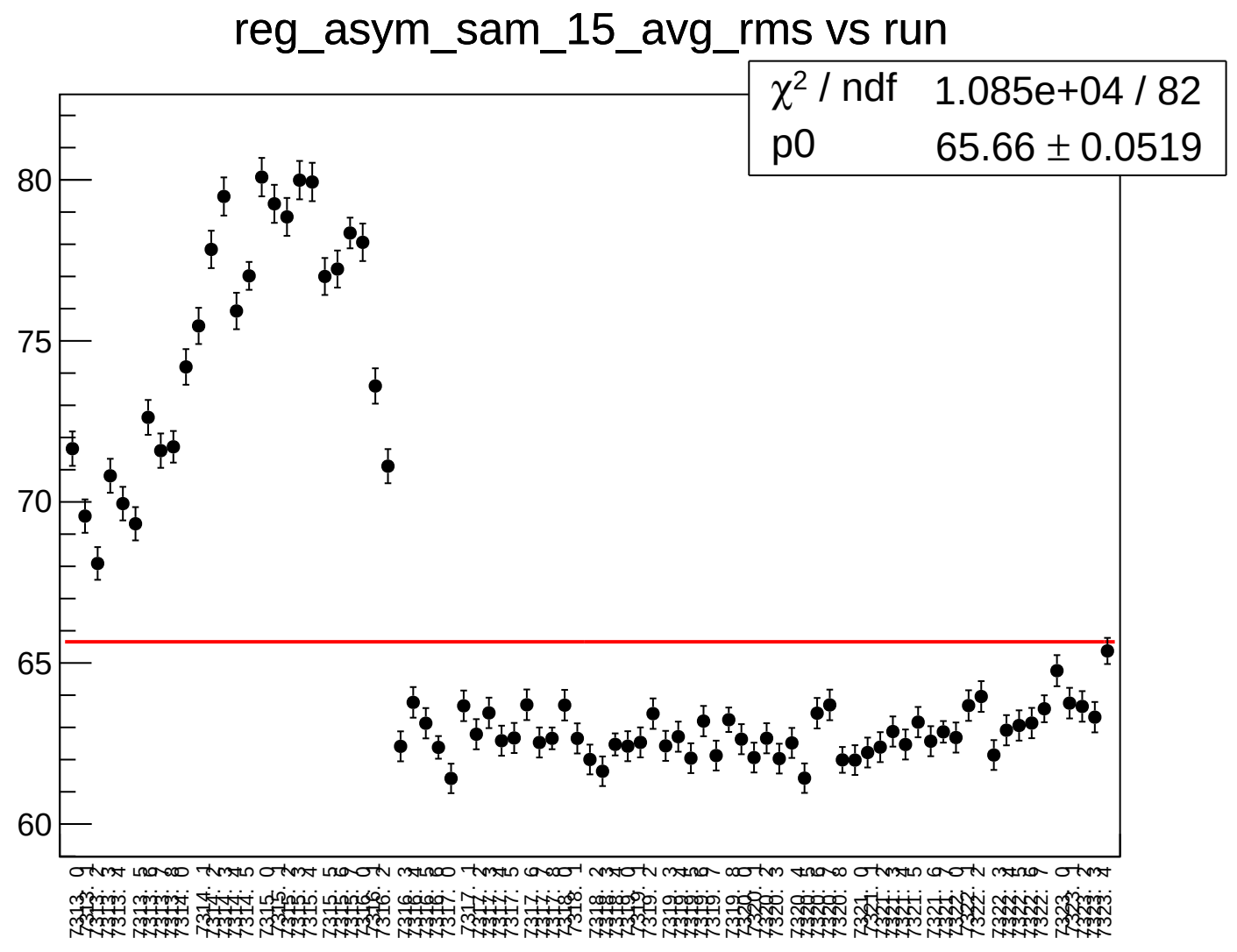

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.7 / 82
p0 1.537e−15 ± 8.042e−15
pull
Entries 83
Mean −132.7
Std Dev 0

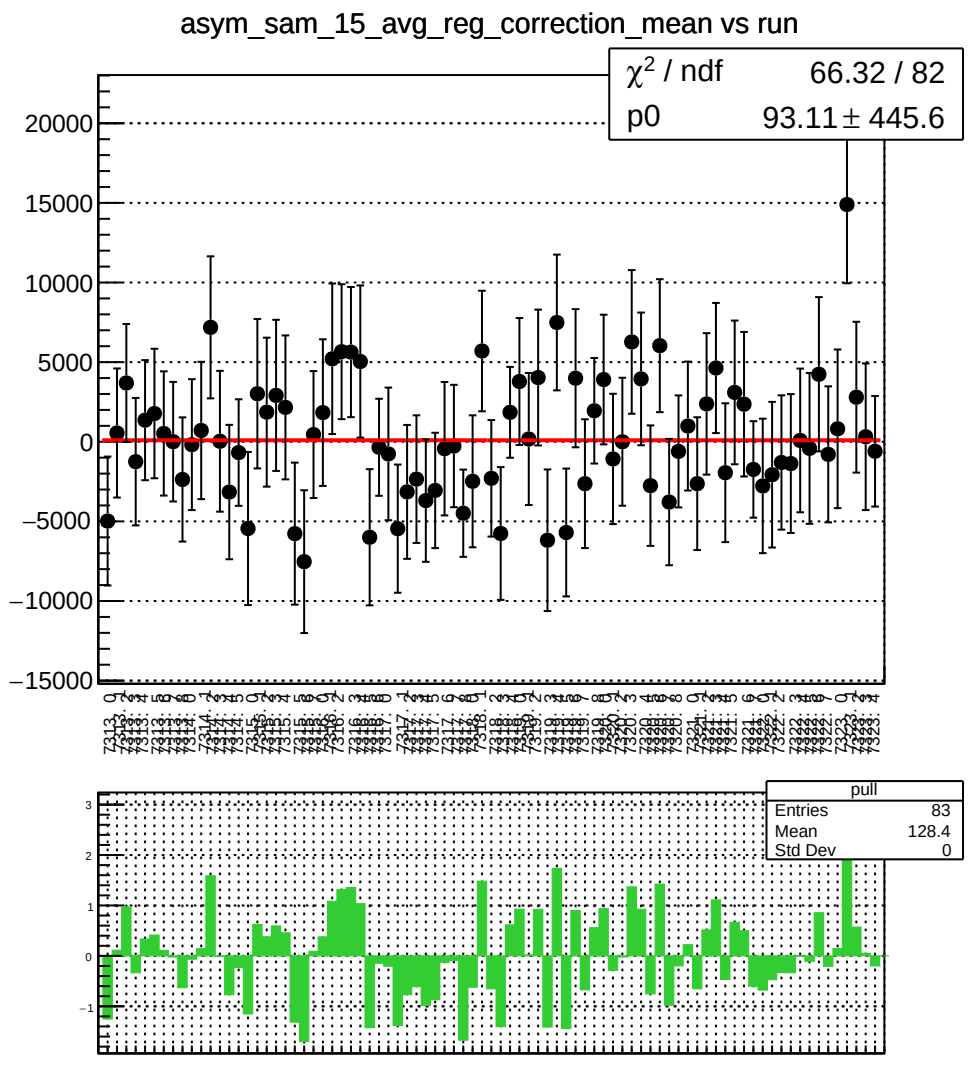

pull1D
Entries 83
Mean −0.0128
Std Dev 1.062

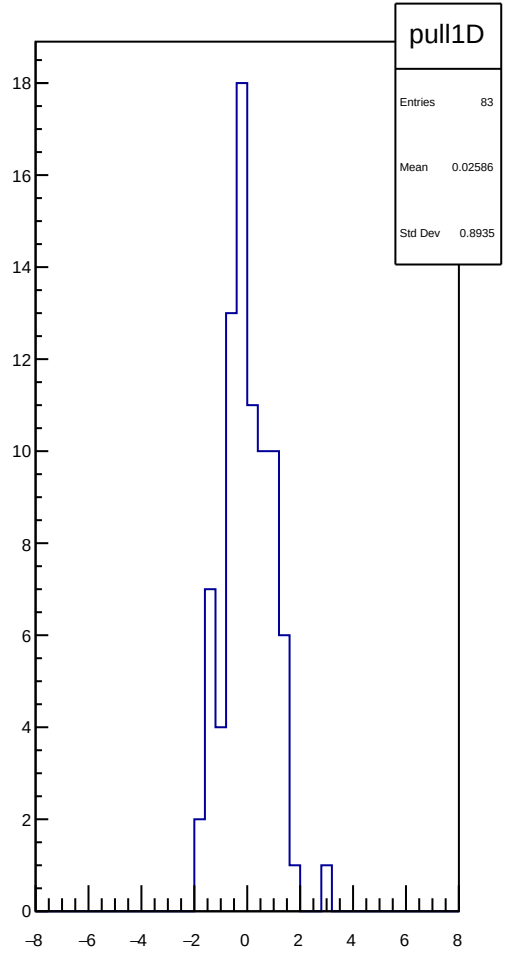

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.739e+05 / 82
p0 5.506e−12 ± 5.687e−15
50
40
30
20
10

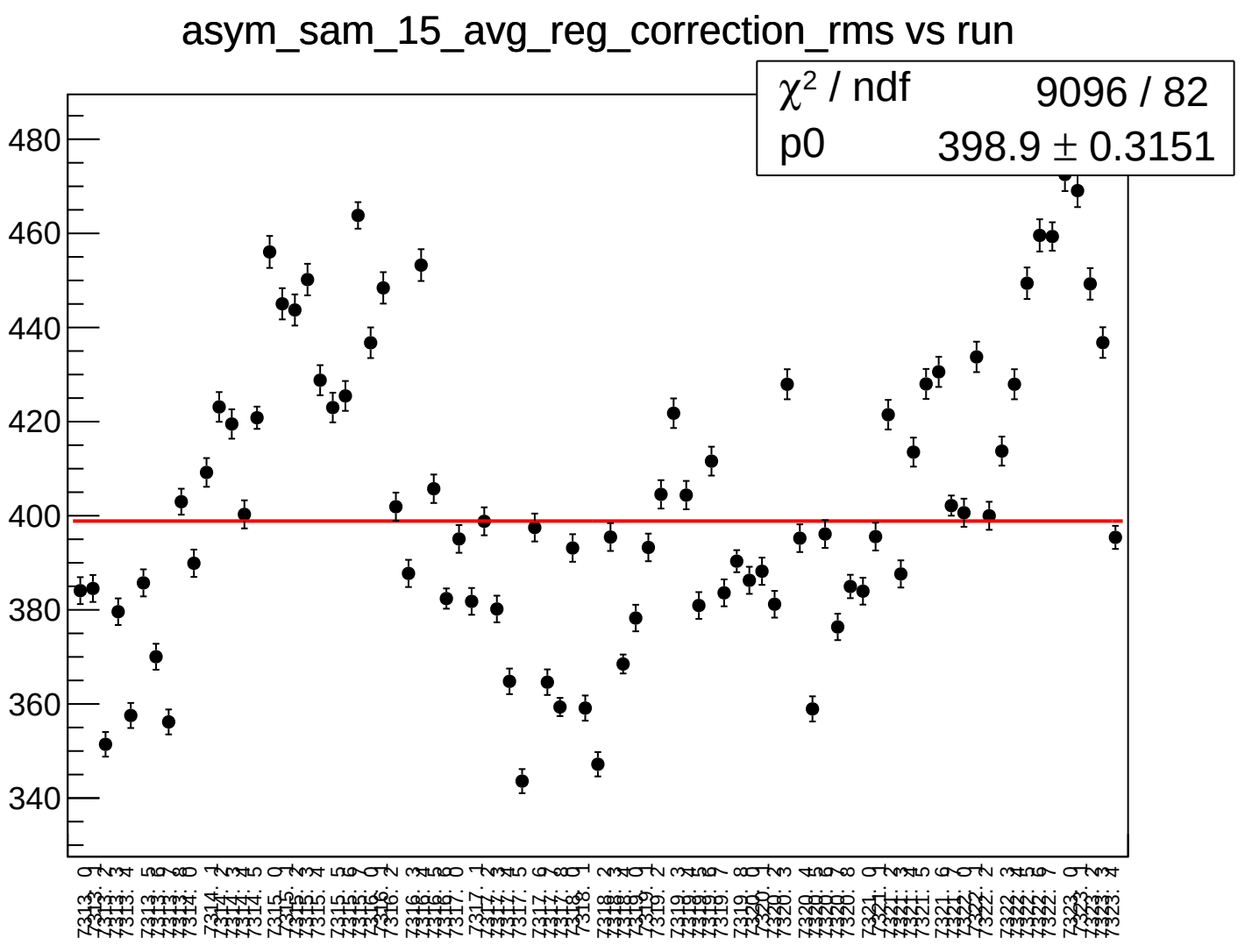

reg_asym_sam_15_avg_mean vs run
χ² / ndf 78.71 / 82
p0 93.44 ± 73.39
pull
Entries 83
Mean −50.62
Std Dev 0

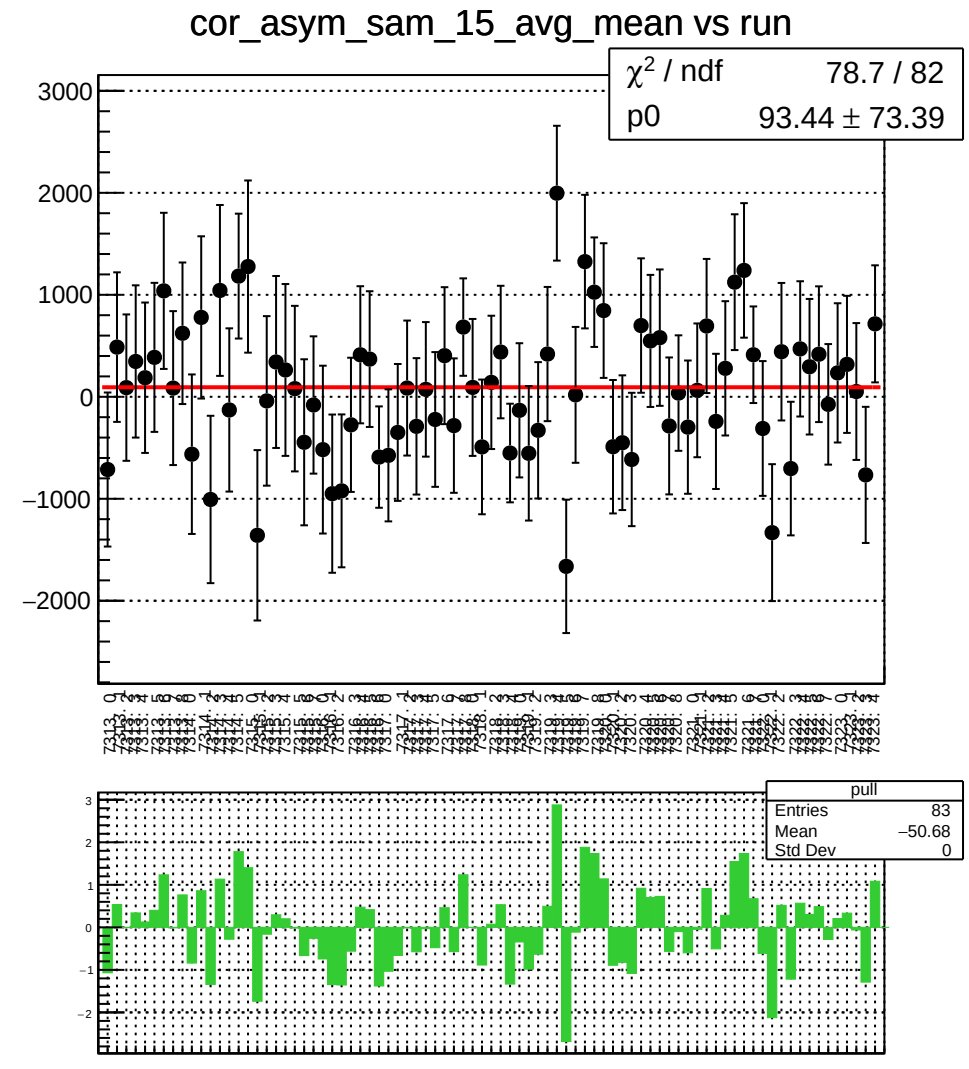

pull1D
Entries 83
Mean −0.0107
Std Dev 0.9737

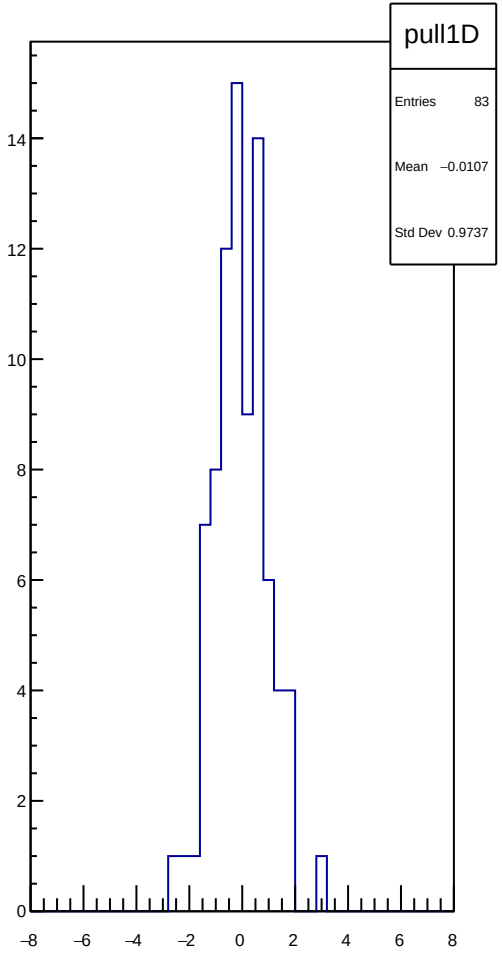

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.085e+04 / 82
p0 65.66 ± 0.0519
80
75
70
65
60

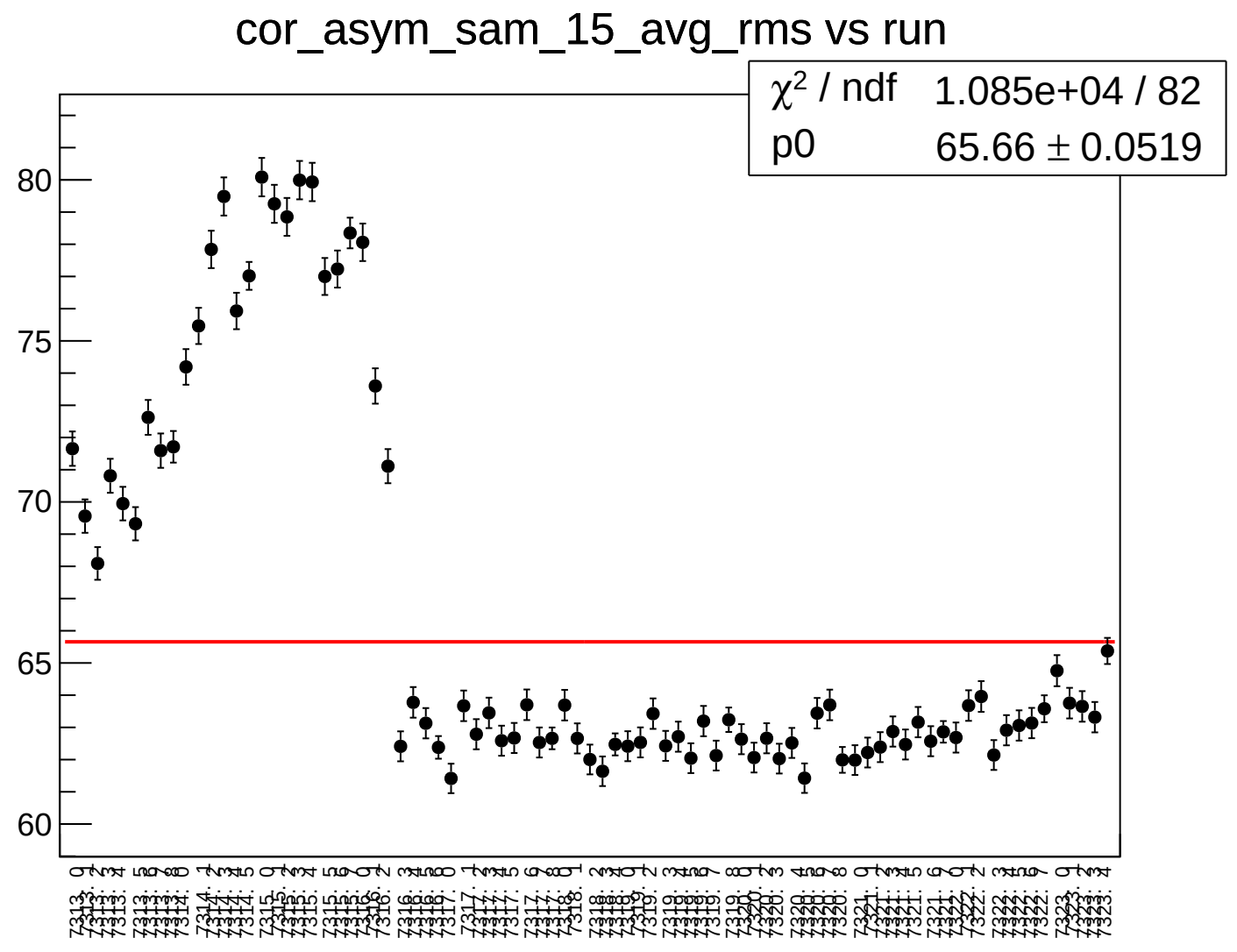

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 66.32 / 82
p0 93.11 ± 445.6
pull
Entries 83
Mean 128.4
Std Dev 0

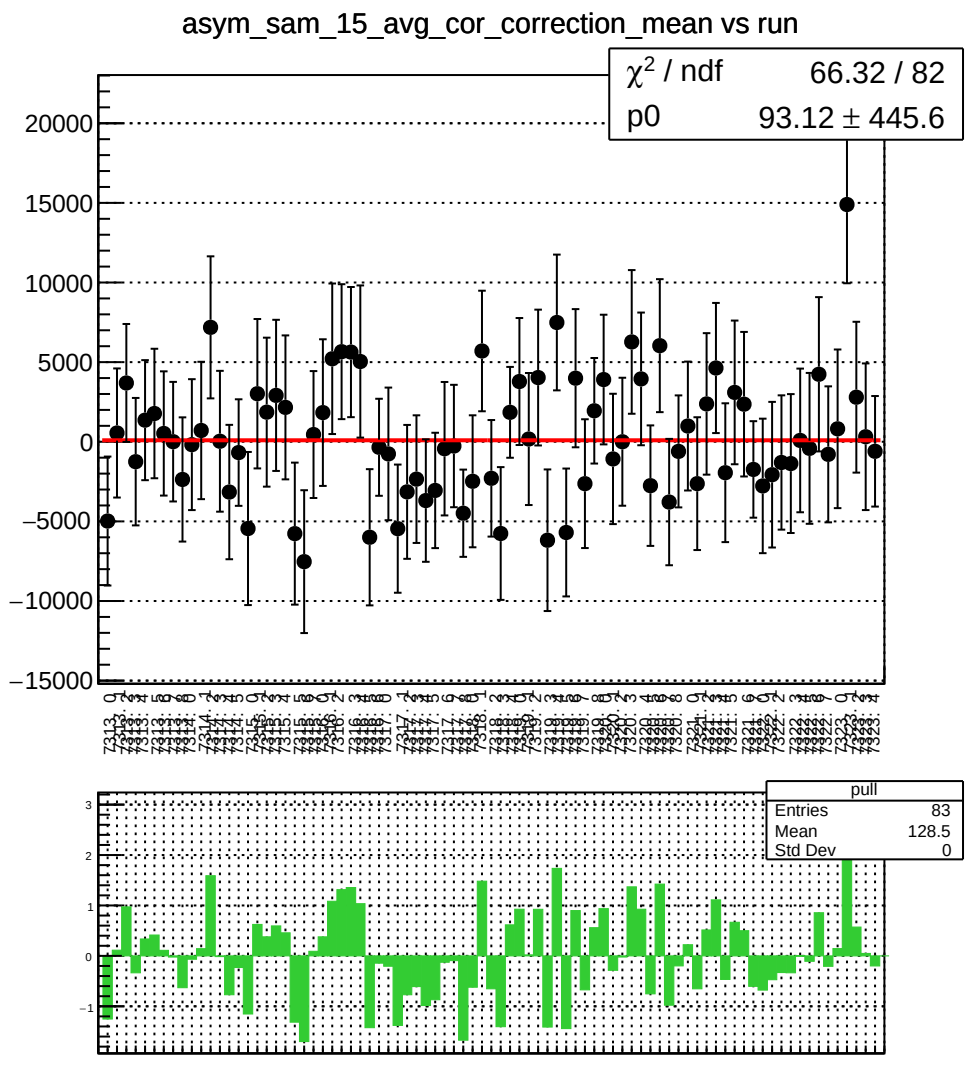

pull1D
Entries 83
Mean 0.02586
Std Dev 0.8935

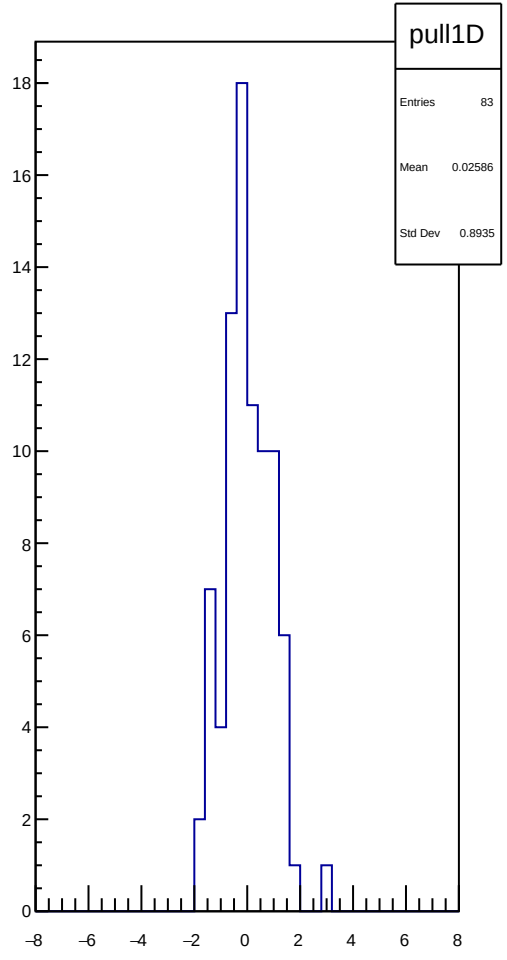

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 9096 / 82
p0 398.9 ± 0.3151
480
460
440
420
400
380
360
340

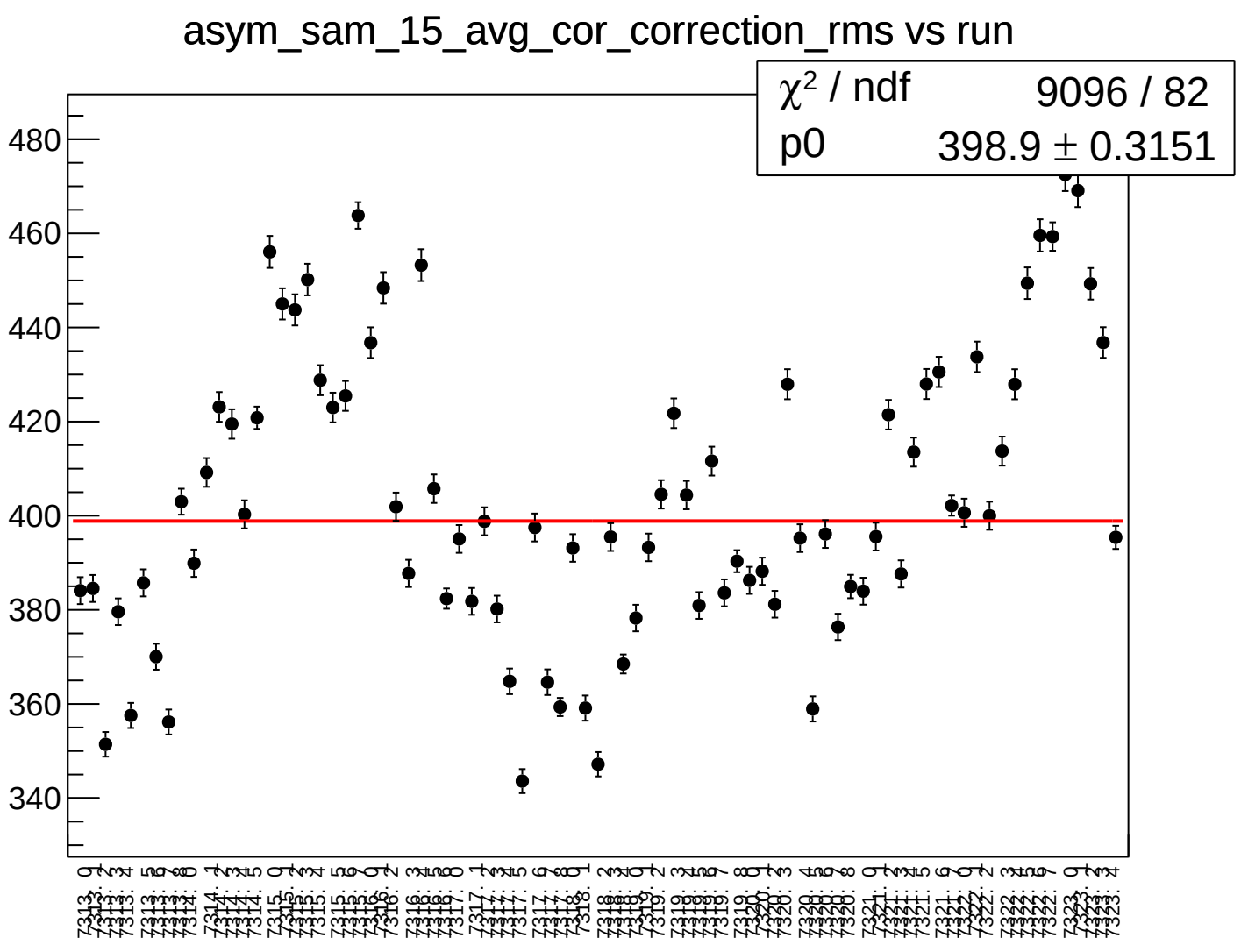

cor_asym_sam_15_avg_mean vs run
χ² / ndf 78.7 / 82
p0 93.44 ± 73.39
pull
Entries 83
Mean −50.68
Std Dev 0

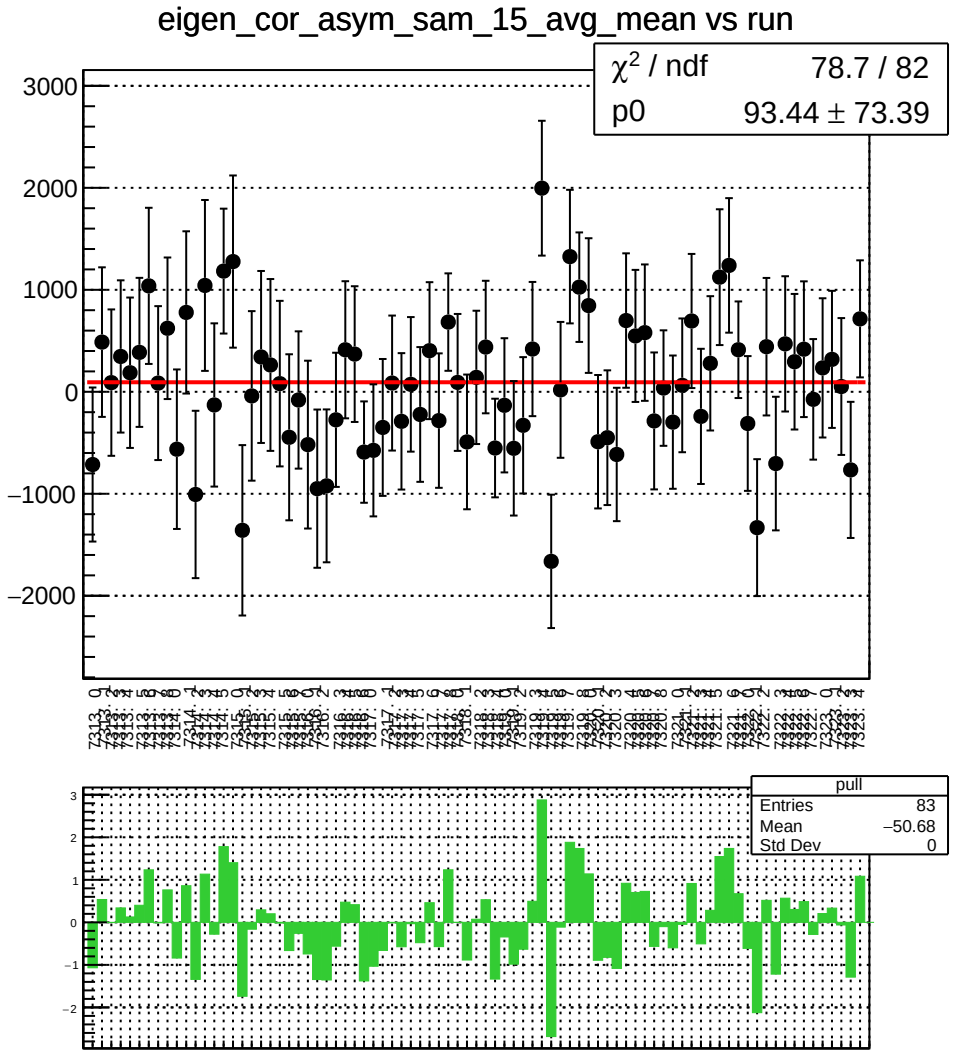

pull1D
Entries 83
Mean −0.0107
Std Dev 0.9737

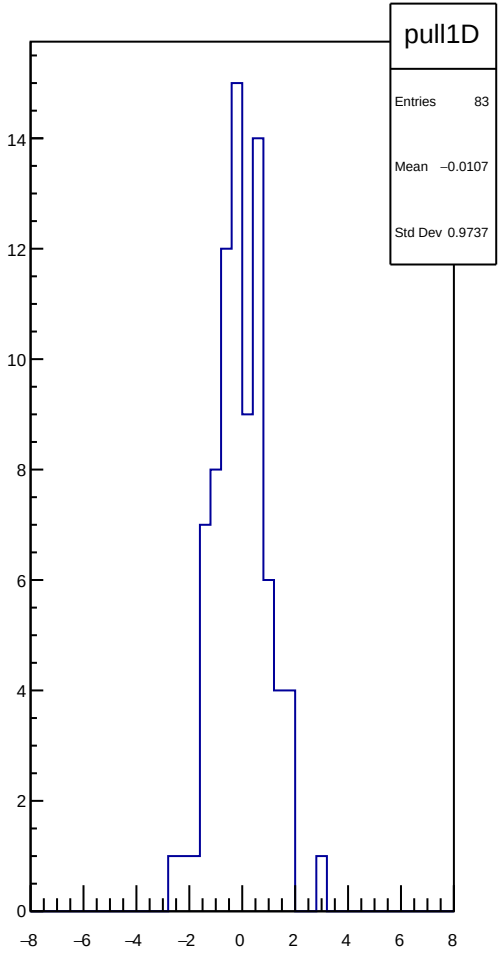

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.085e+04 / 82
p0 65.66 ± 0.0519
80
75
70
65
60

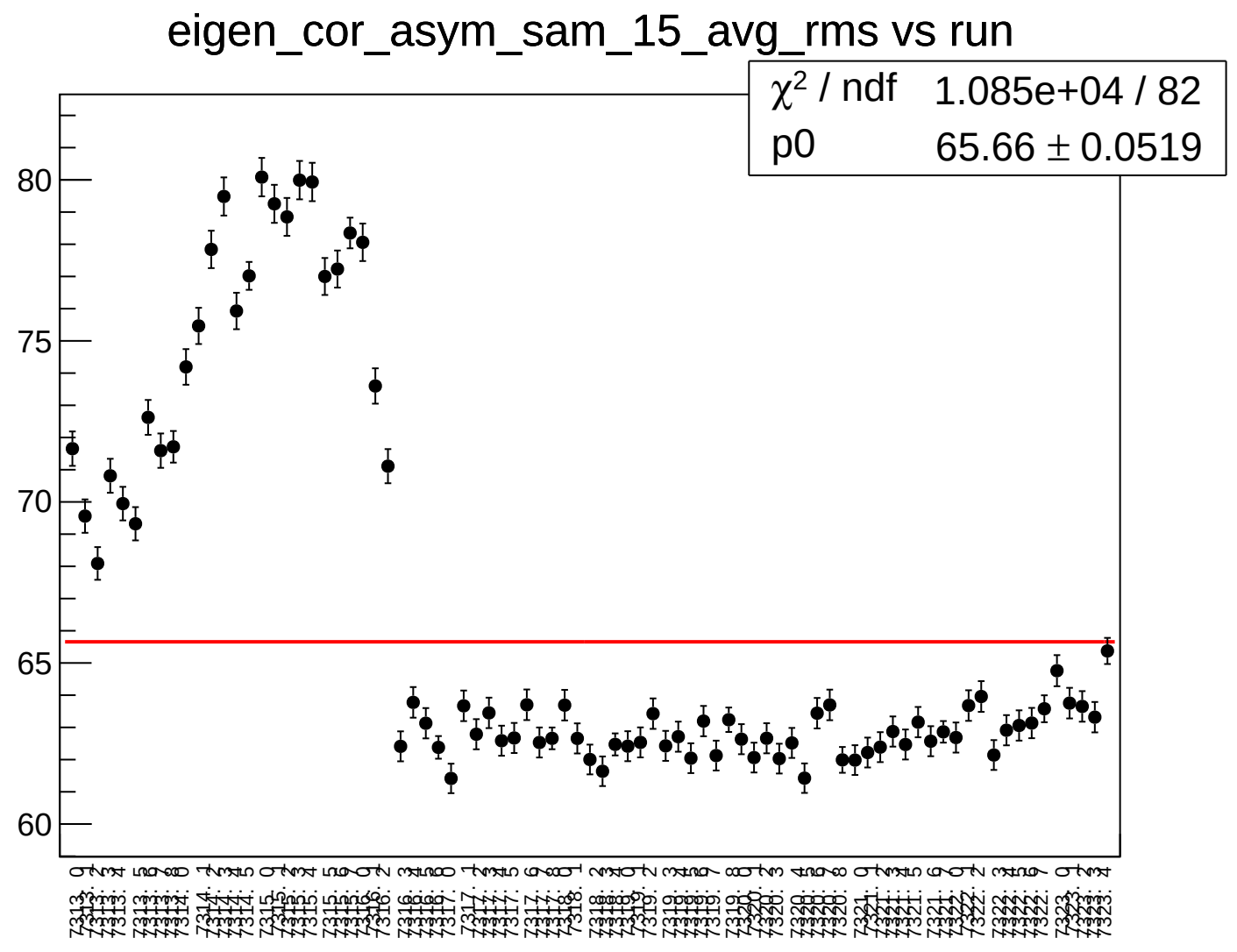

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 66.32 / 82
p0 93.12 ± 445.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 128.5
Std Dev 0
3
2
1
0
−1

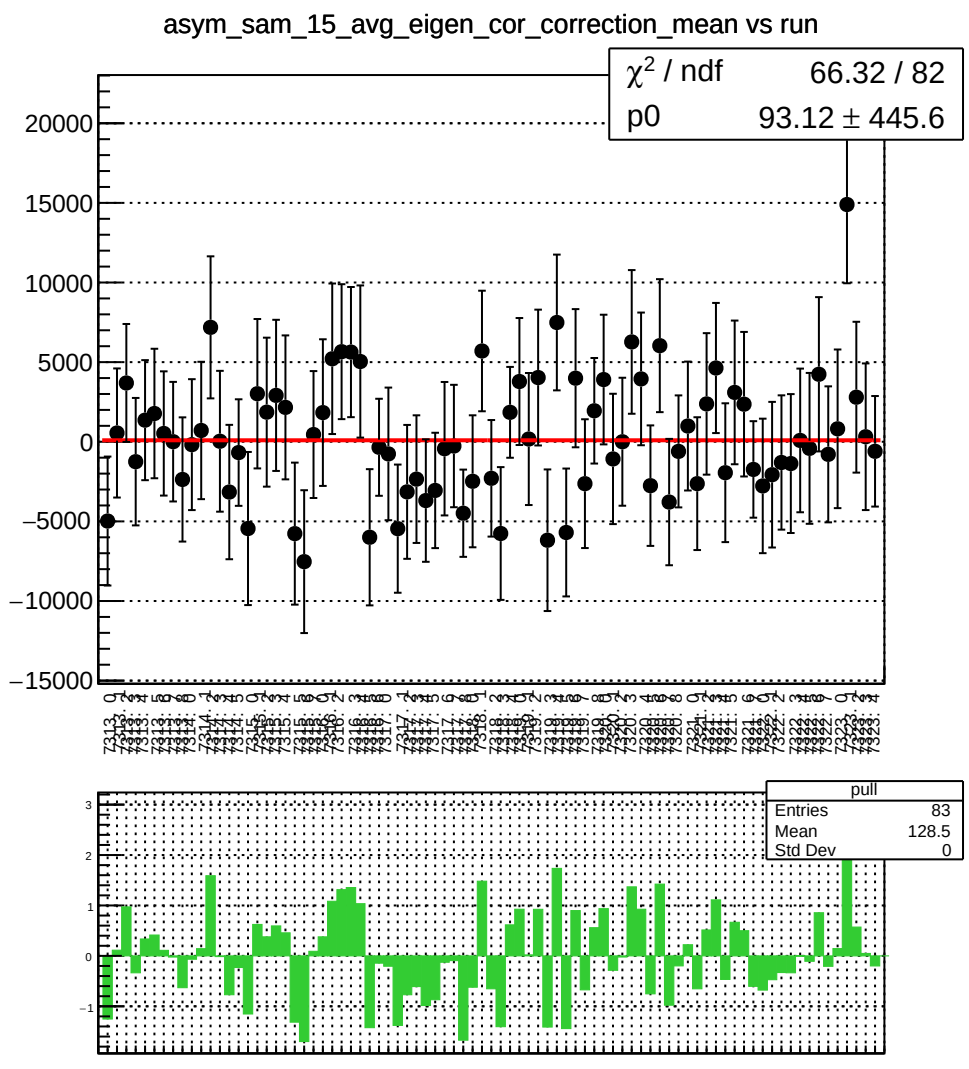

pull1D
Entries 83
Mean 0.02586
Std Dev 0.8935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

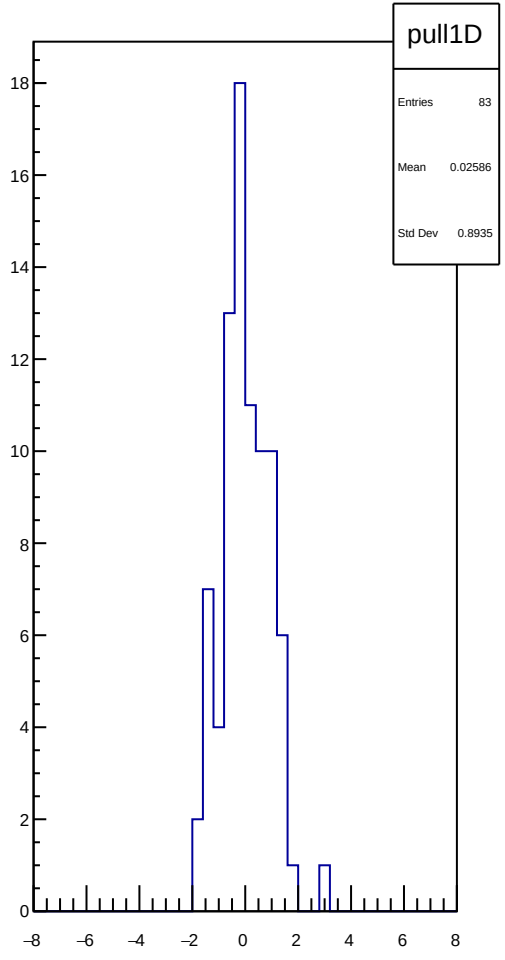

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 9096 / 82
p0 398.9 ± 0.3151
480
460
440
420
400
380
360
340

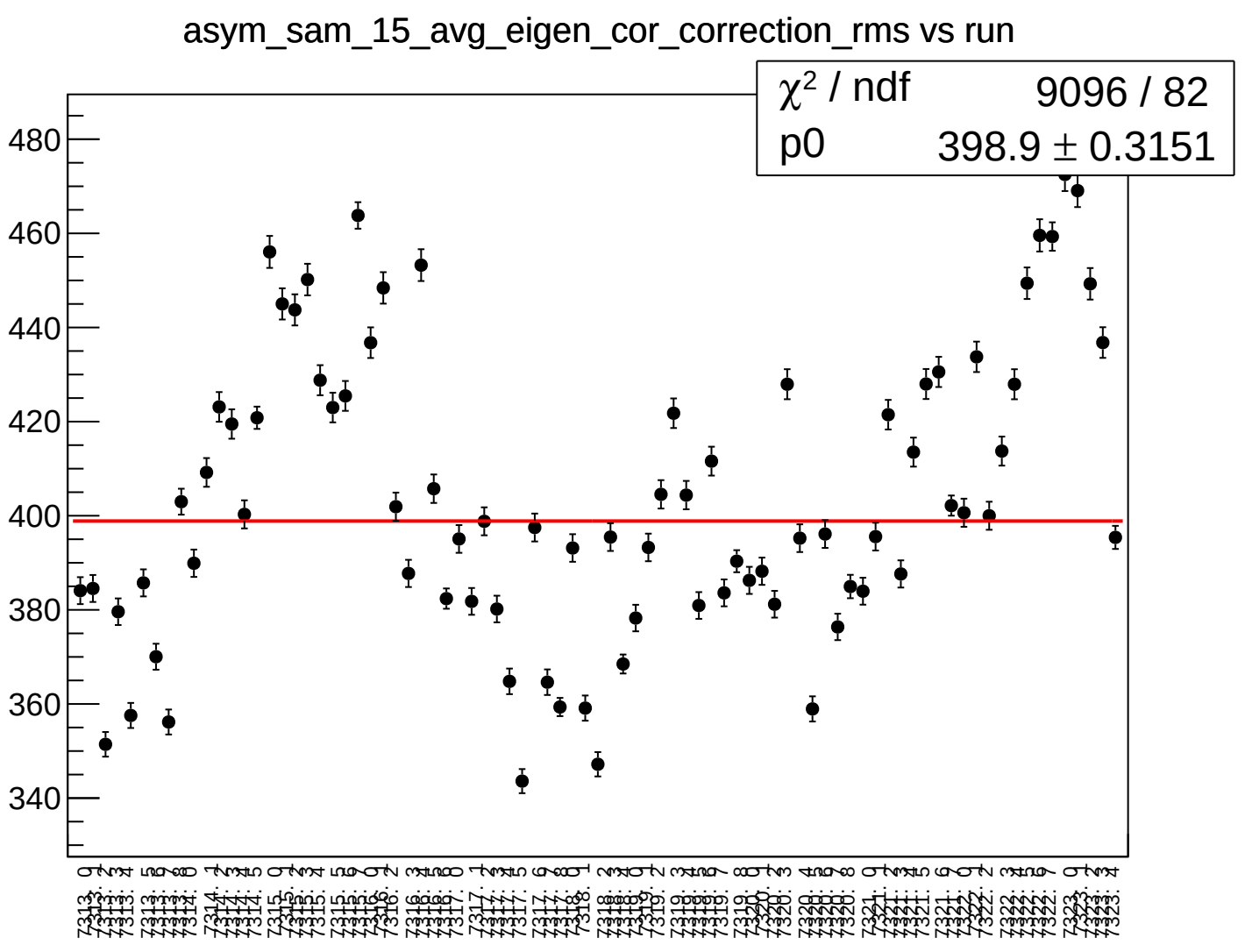

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 78.7 / 82
p0 93.44 ± 73.39
3000
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −50.68
Std Dev 0
3
2
1
0
−1
−2

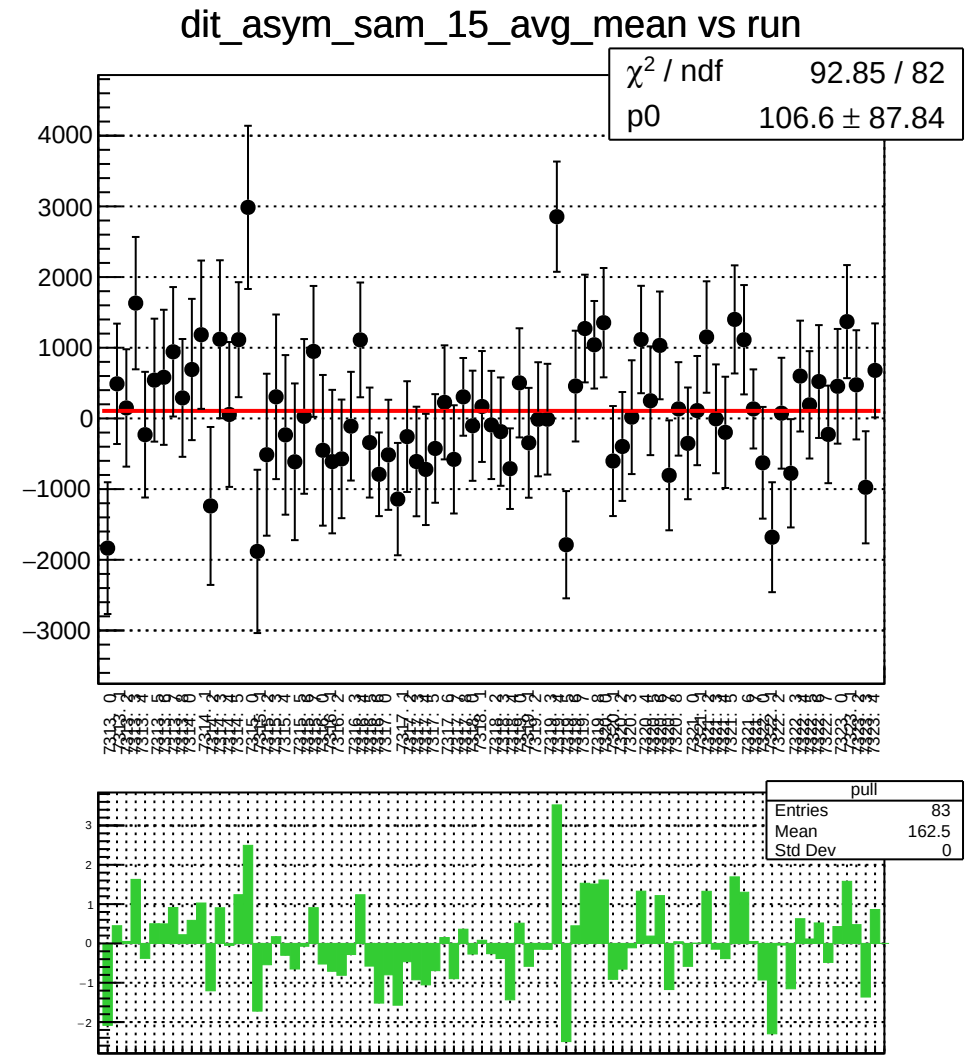

pull1D
Entries 83
Mean −0.0107
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

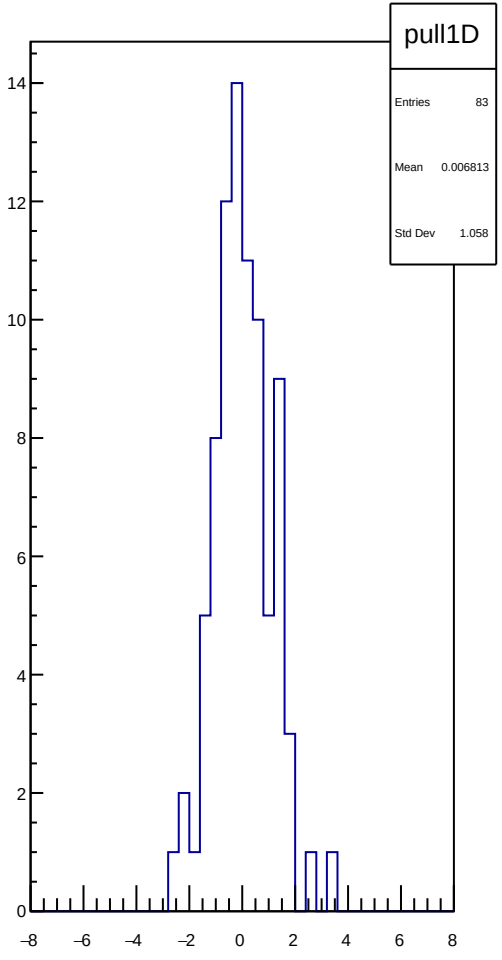

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.085e+04 / 82
p0 65.66 ± 0.0519
80
75
70
65
60

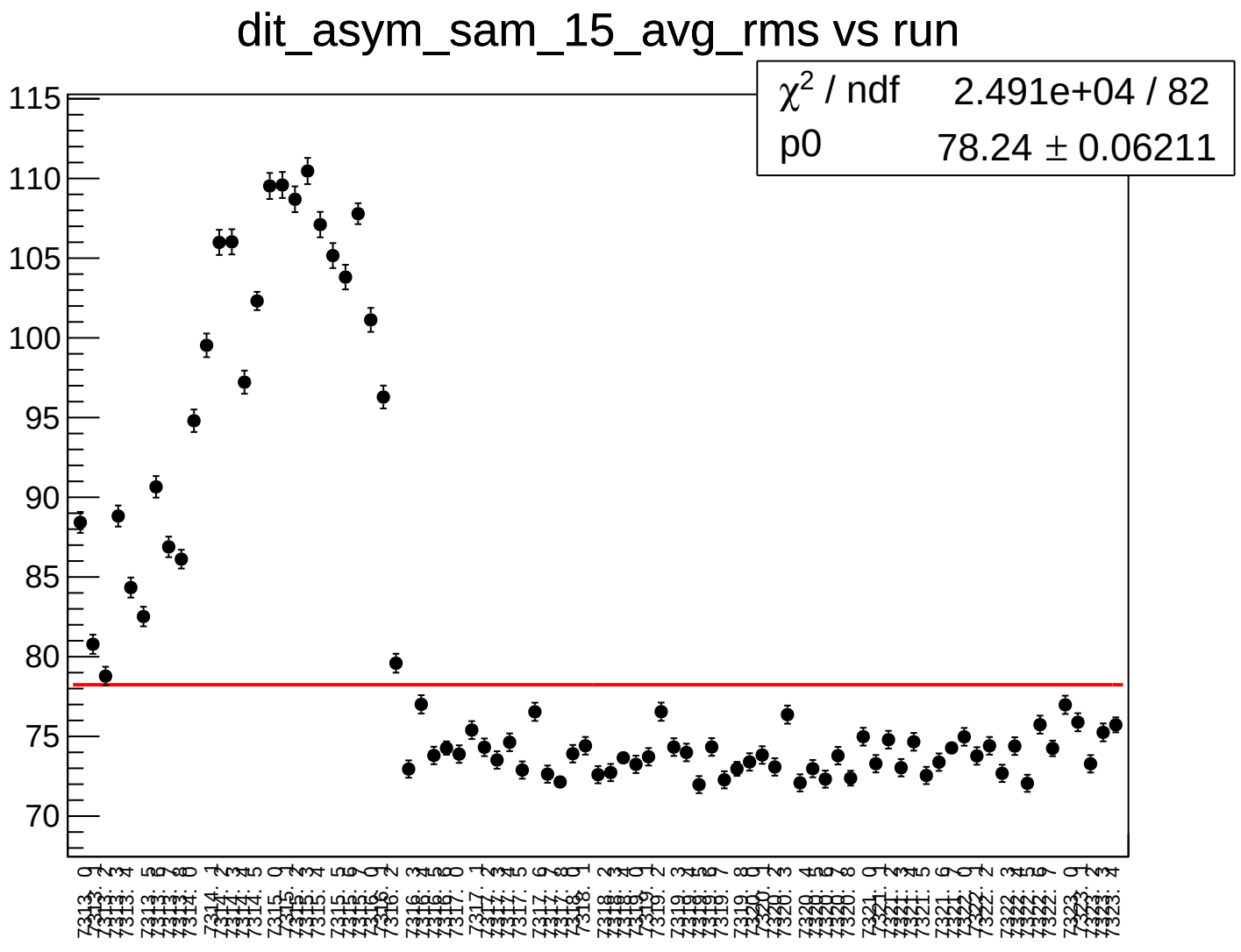

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.32 / 82
p0 93.12 ± 445.6
pull
Entries 83
Mean 128.5
Std Dev 0

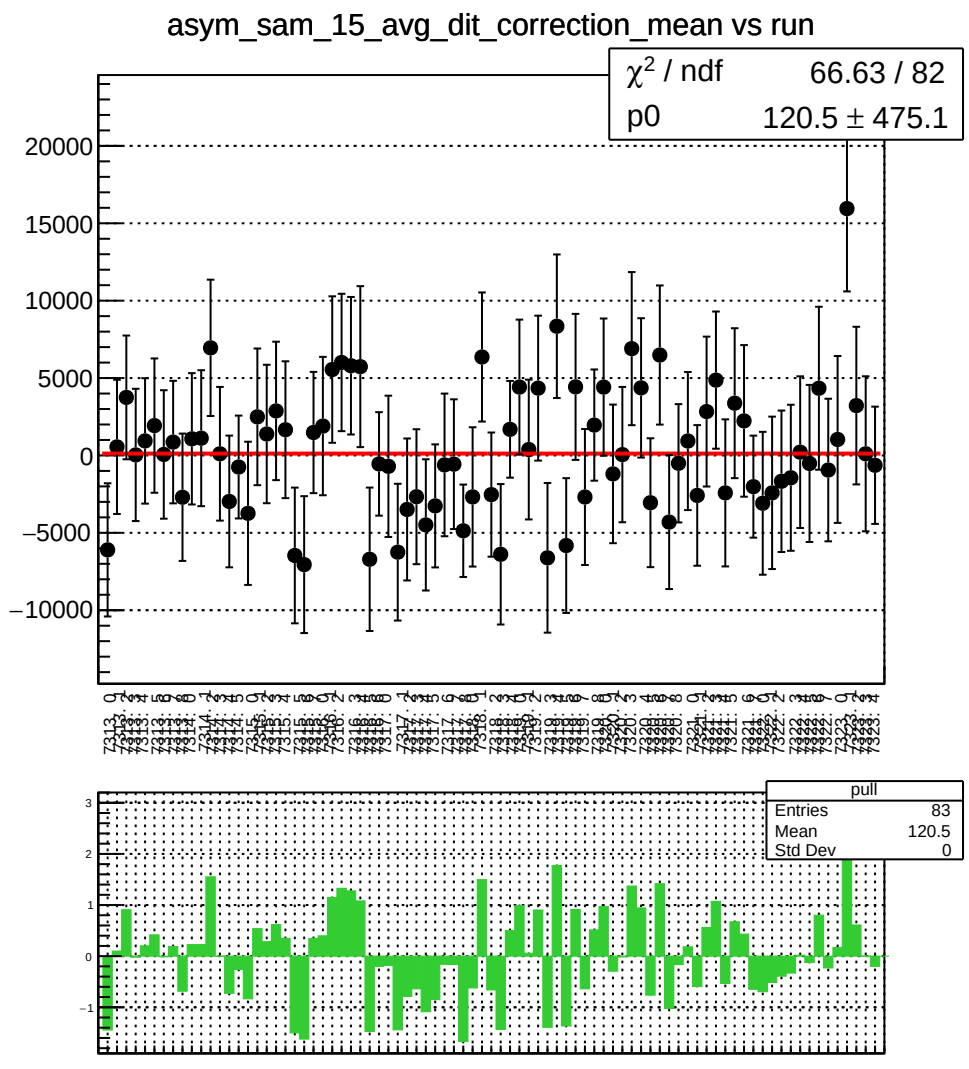

pull1D
Entries 83
Mean 0.02586
Std Dev 0.8935

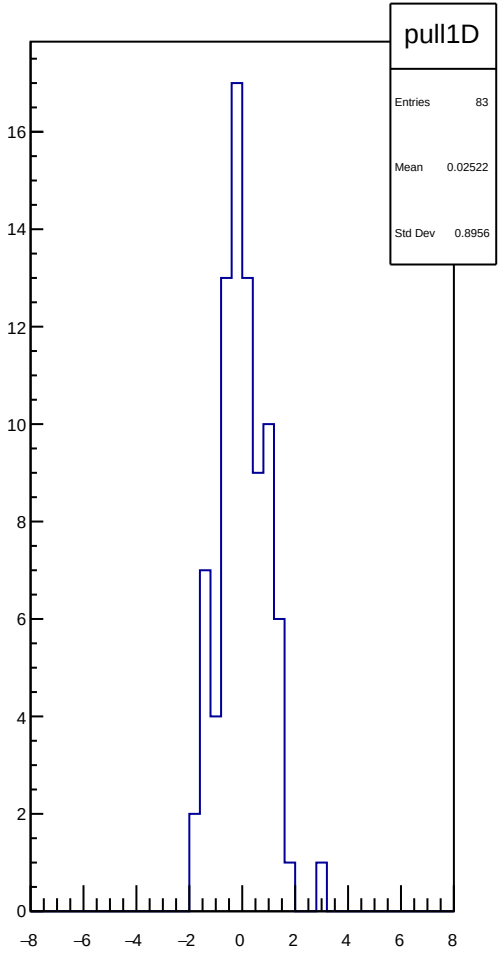

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 9096 / 82
p0 398.9 ± 0.3151
480
460
440
420
400
380
360
340

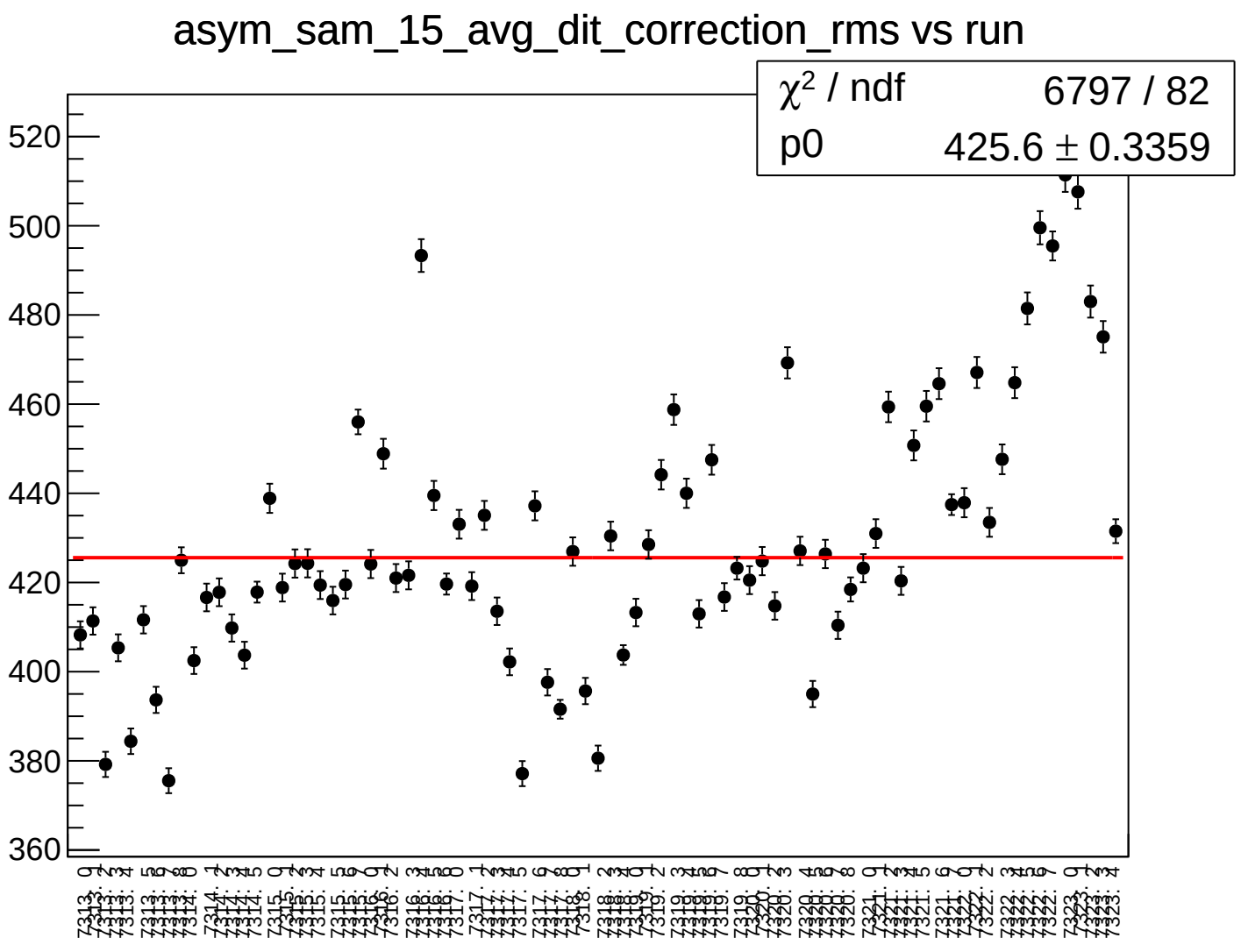

dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.85 / 82
p0 106.6 ± 87.84
pull
Entries 83
Mean 162.5
Std Dev 0

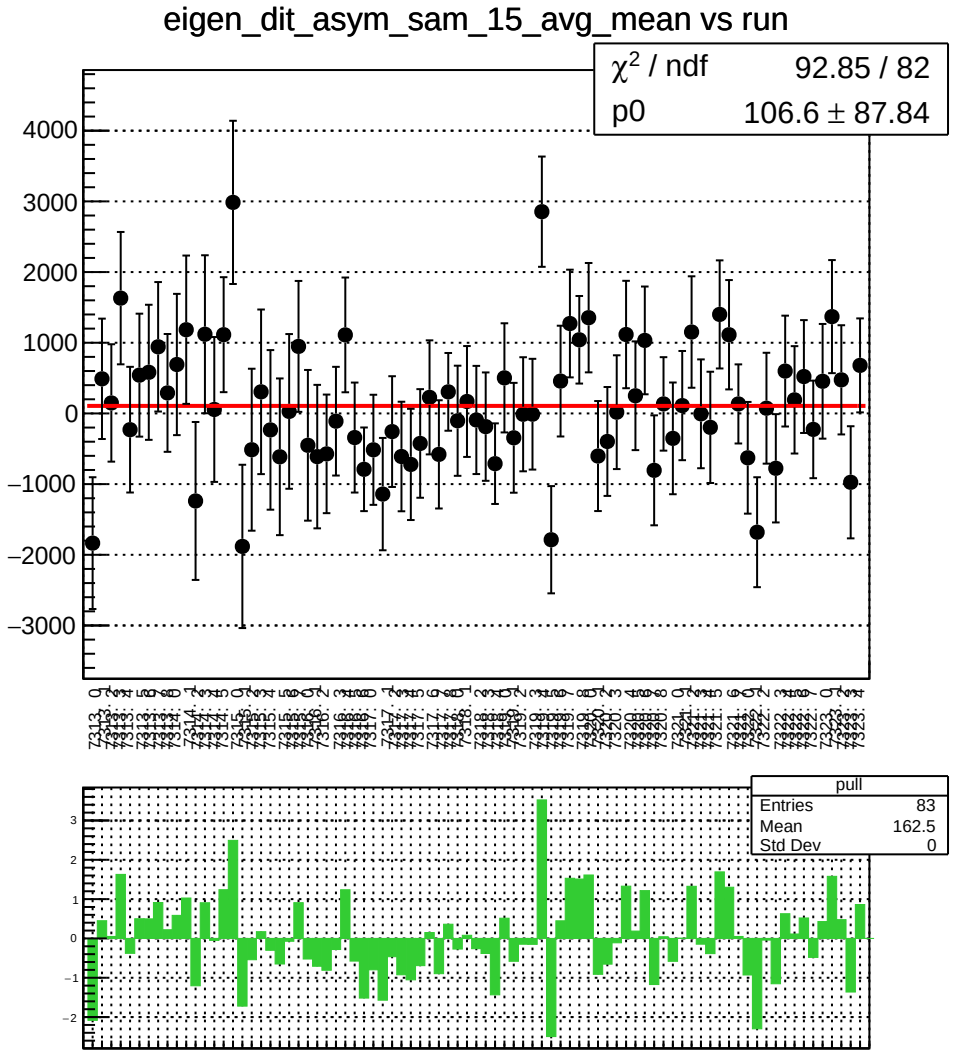

pull1D
Entries 83
Mean 0.006813
Std Dev 1.058

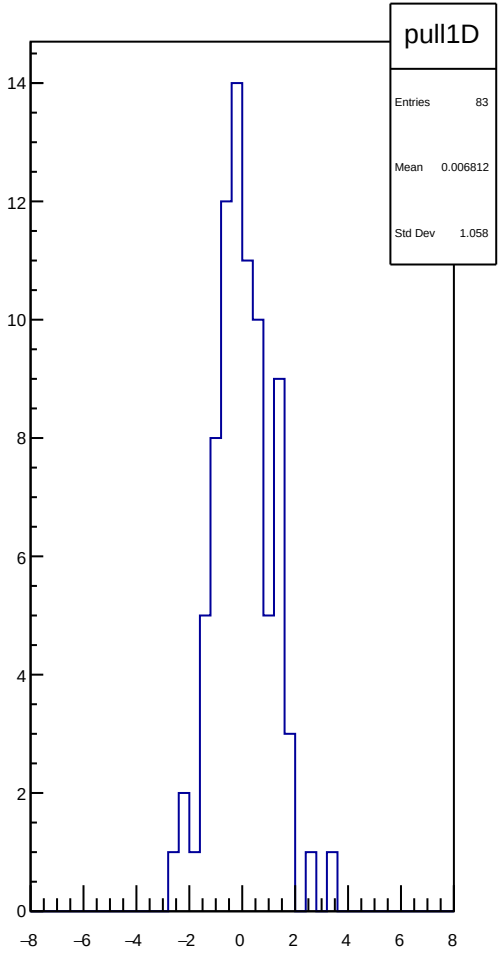

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.491e+04 / 82
p0 78.24 ± 0.06211
115
110
105
100
95
90
85
80
75
70

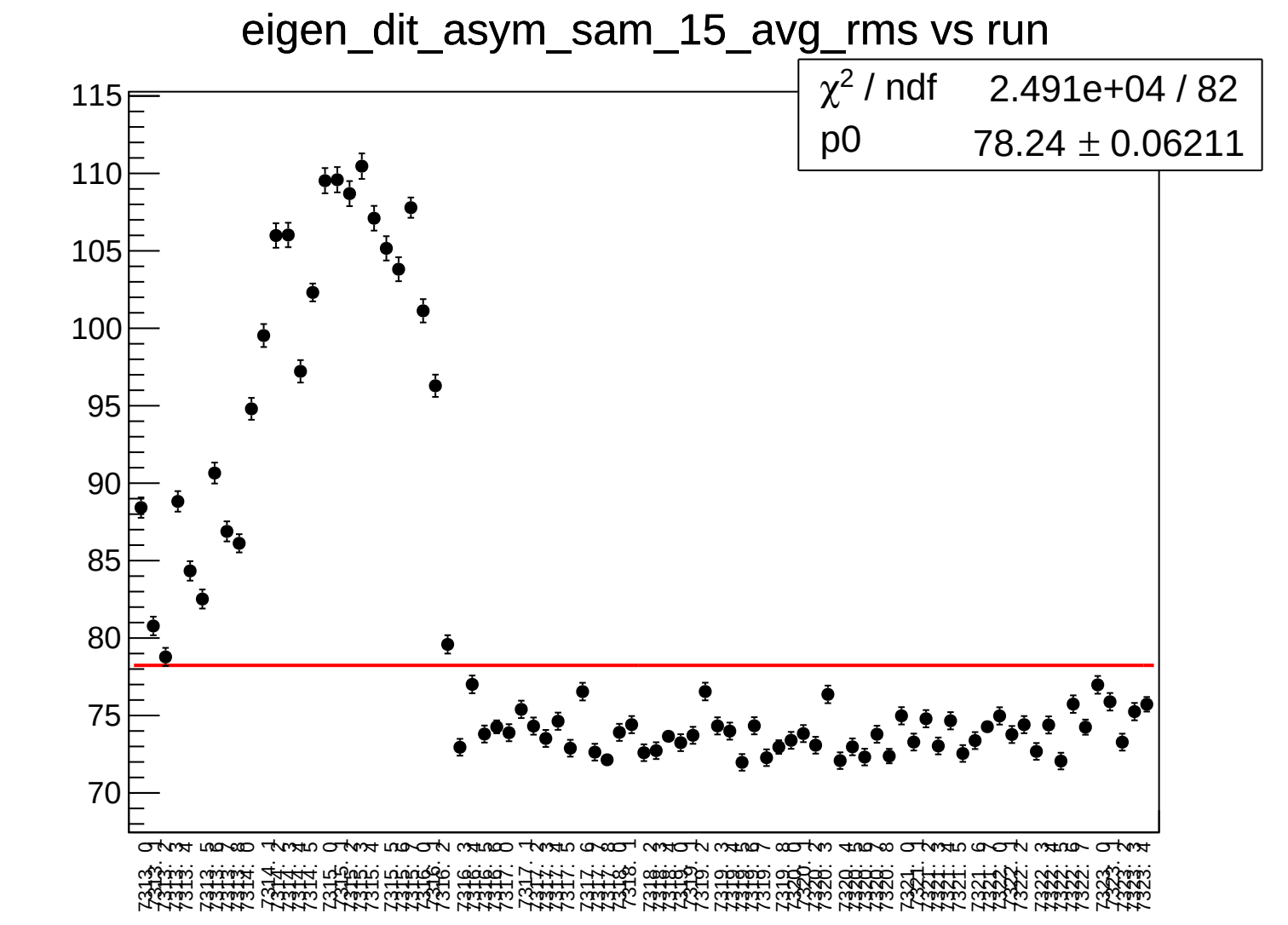

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 66.63 / 82
p0 120.5 ± 475.1
pull
Entries 83
Mean 120.5
Std Dev 0

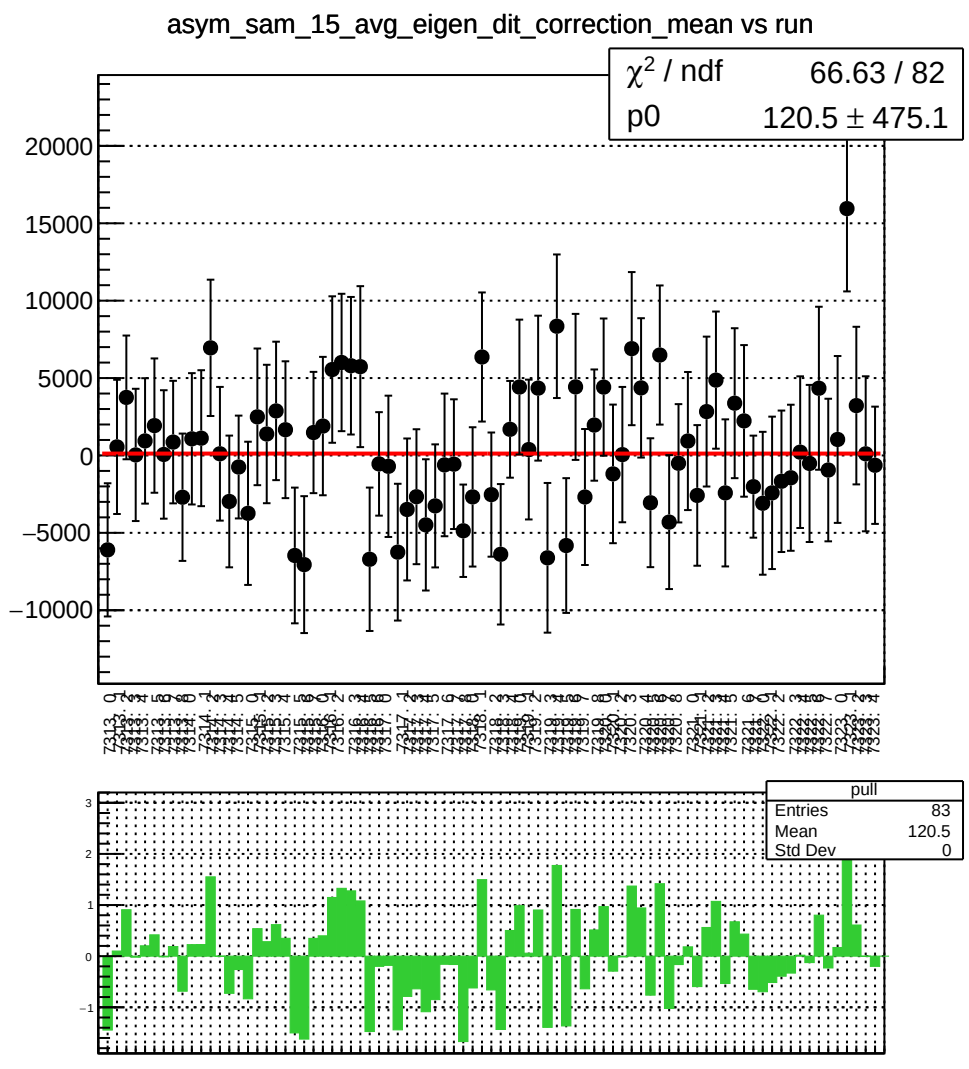

pull1D
Entries 83
Mean 0.02522
Std Dev 0.8956

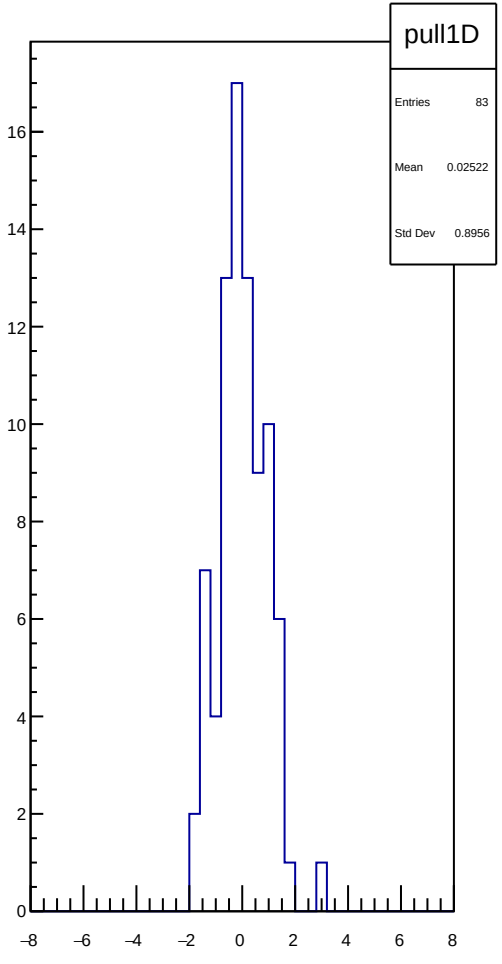

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 6797 / 82
p0 425.6 ± 0.3359
520
500
480
460
440
420
400
380
360

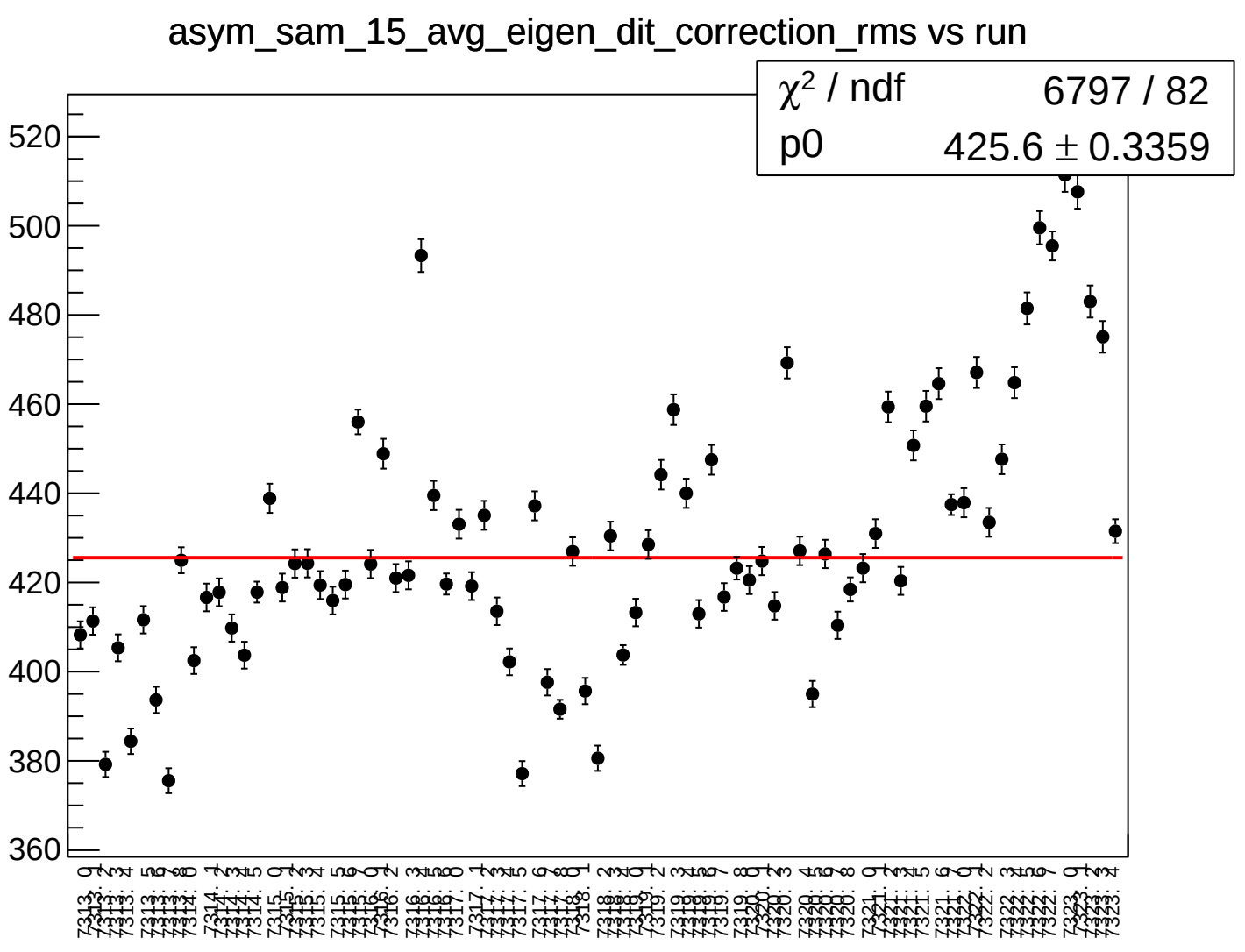

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.85 / 82
p0 106.6 ± 87.84
pull
Entries 83
Mean 162.5
Std Dev 0

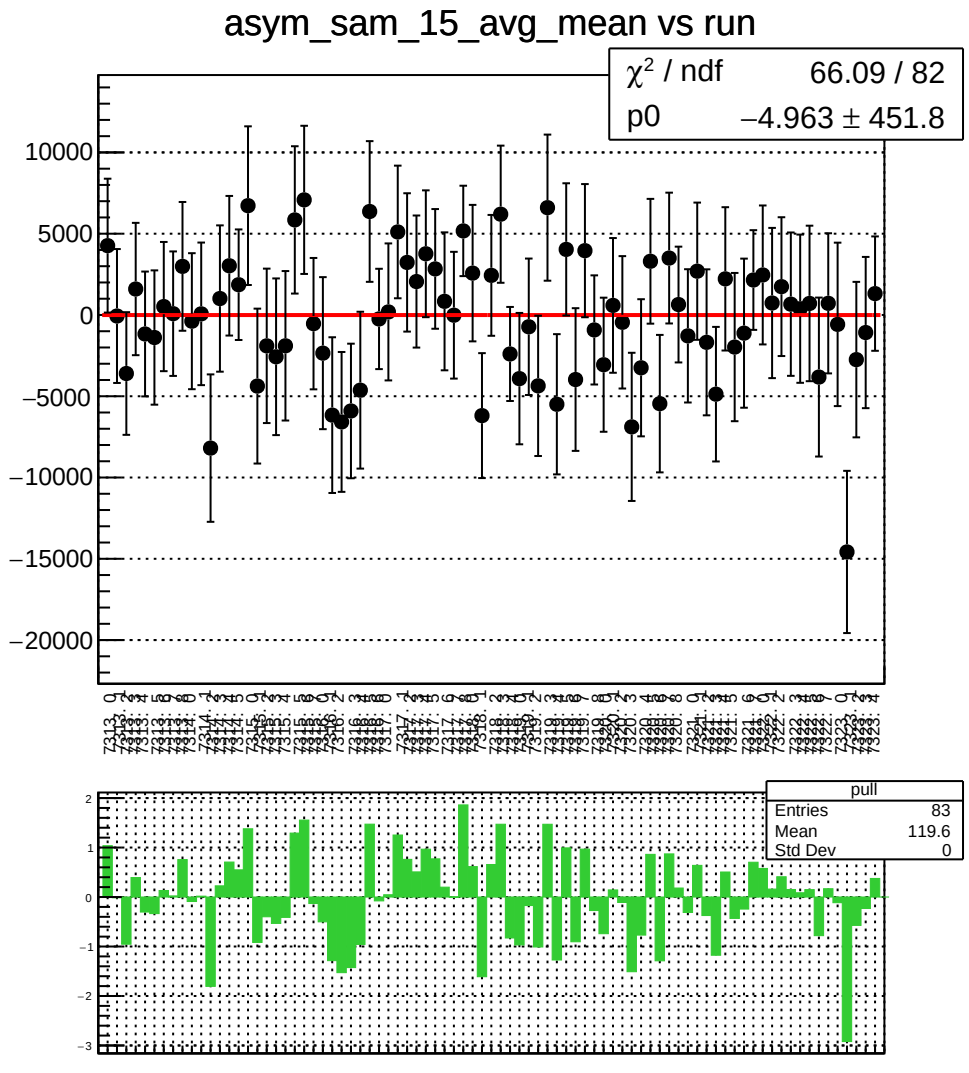

pull1D
Entries 83
Mean 0.006812
Std Dev 1.058

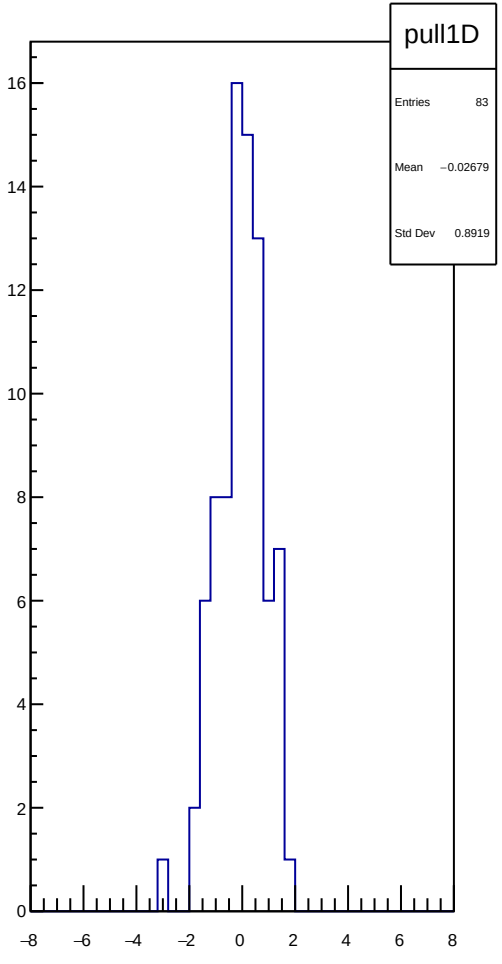

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.491e+04 / 82
p0 78.24 ± 0.06211
115
110
105
100
95
90
85
80
75
70

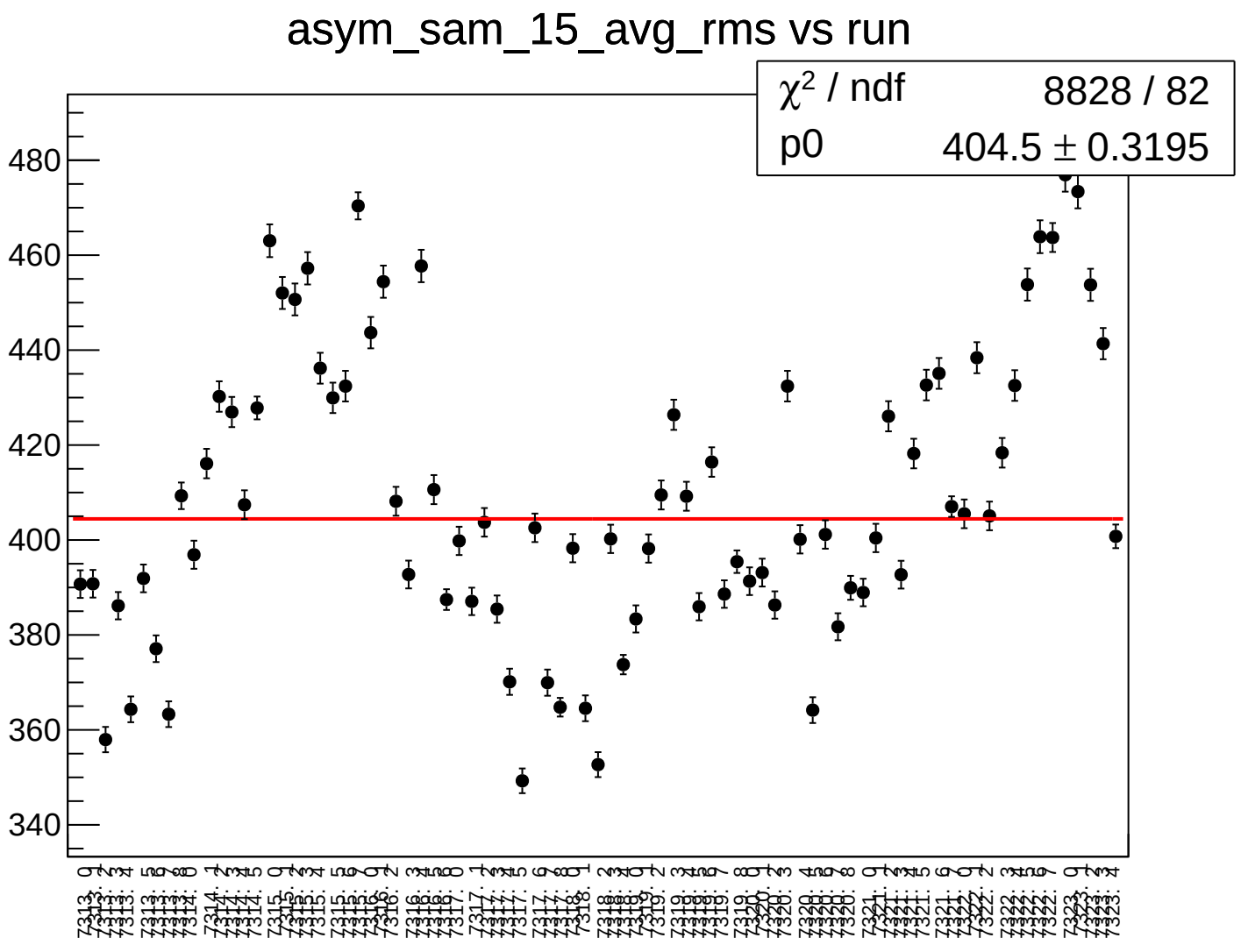

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.63 / 82
p0 120.5 ± 475.1
pull
Entries 83
Mean 120.5
Std Dev 0

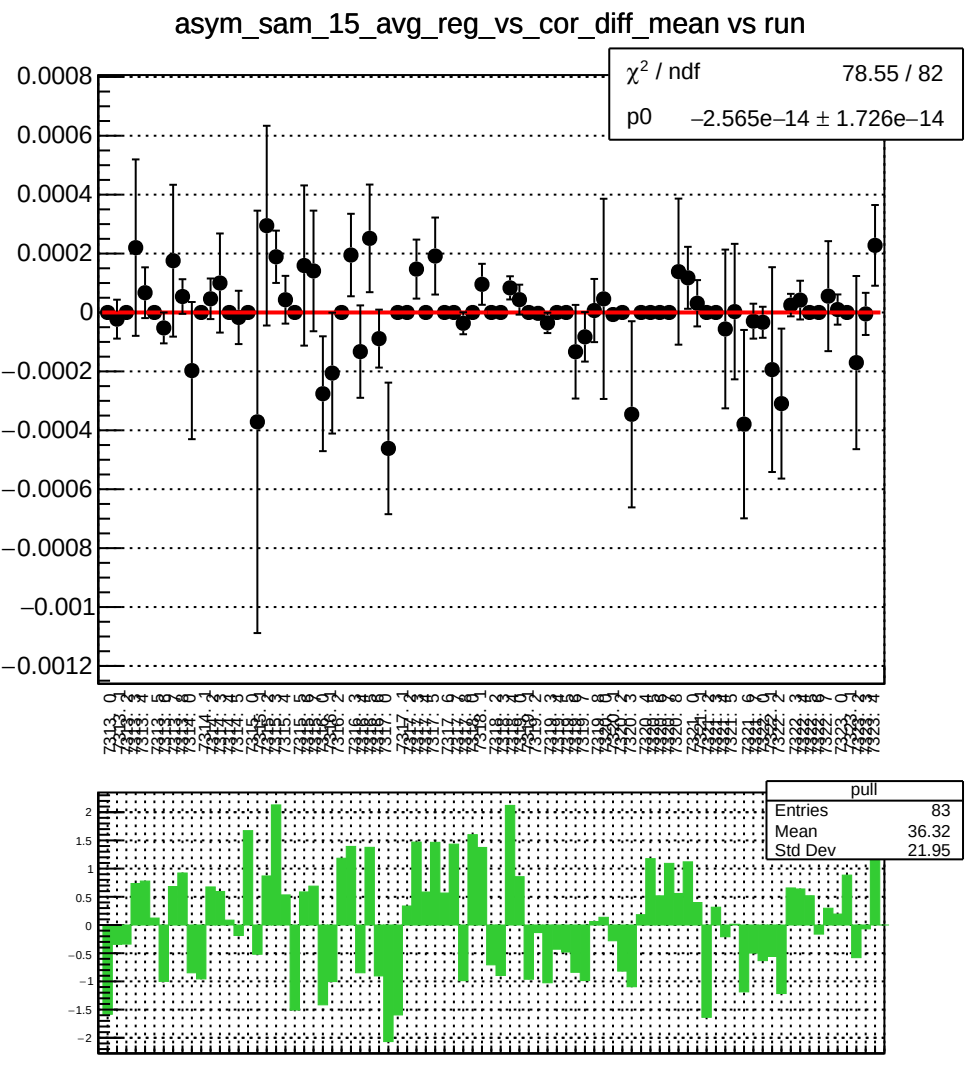

pull1D
Entries 83
Mean 0.02522
Std Dev 0.8956

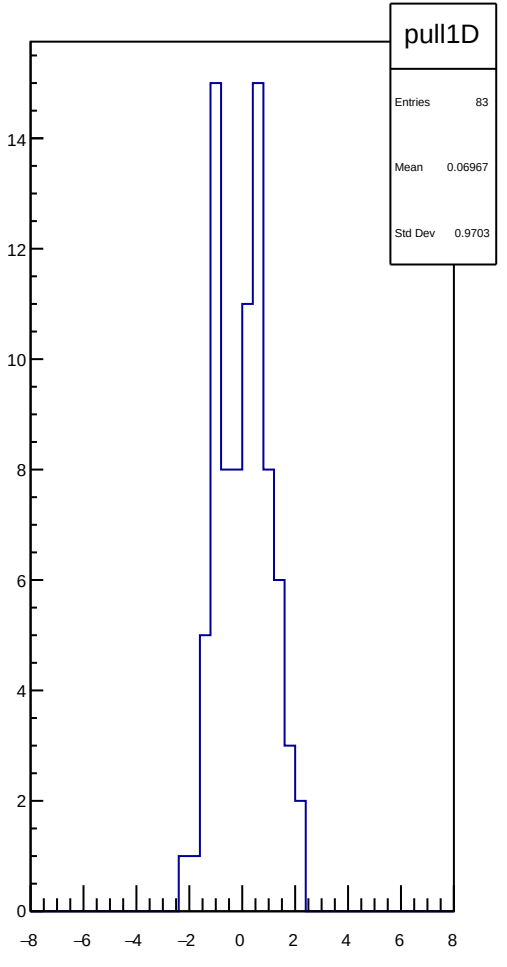

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 6797 / 82
p0 425.6 ± 0.3359
520
500
480
460
440
420
400
380
360

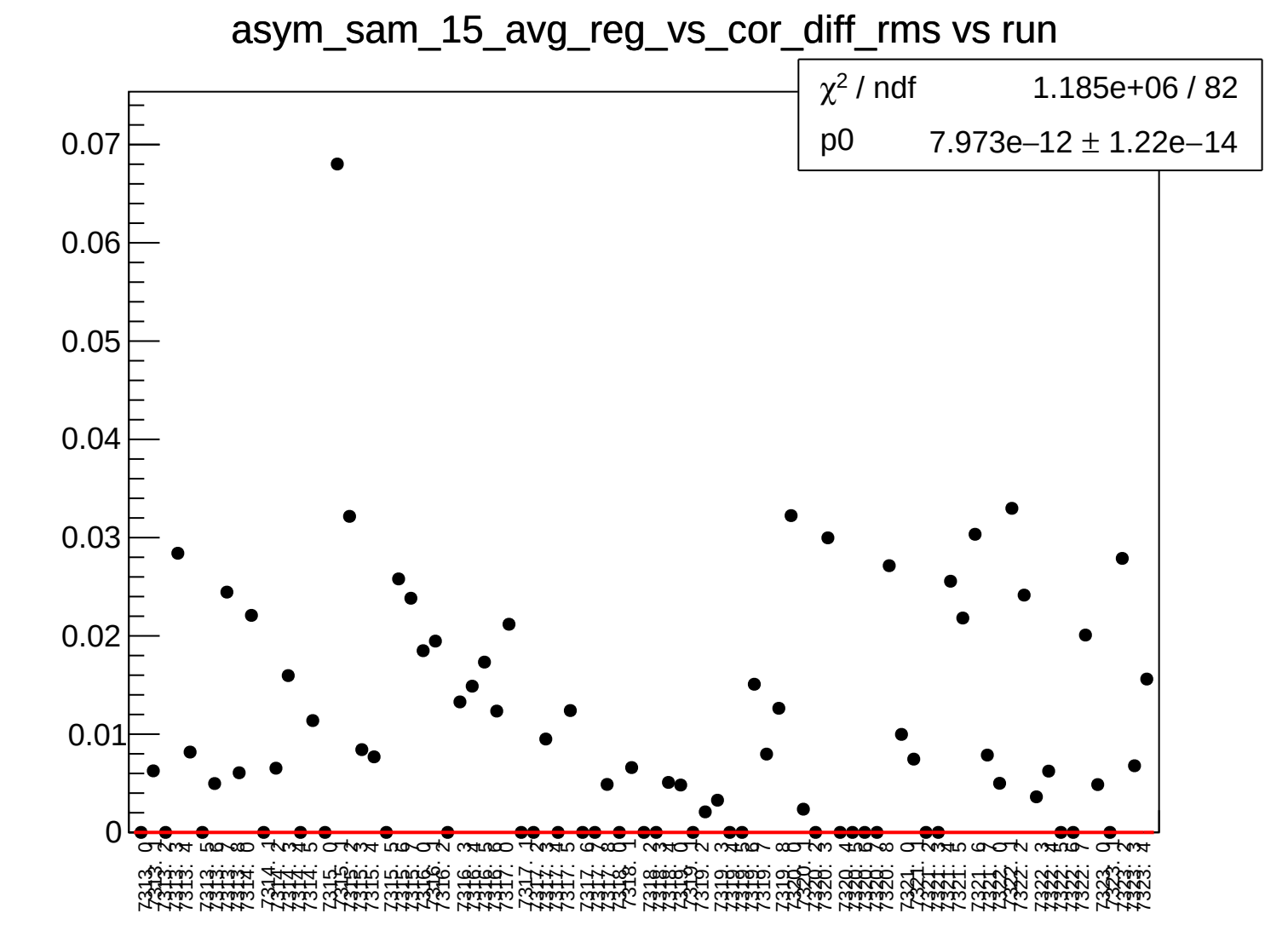

asym_sam_15_avg_mean vs run
χ² / ndf 66.09 / 82
p0 −4.963 ± 451.8
pull
Entries 83
Mean 119.6
Std Dev 0

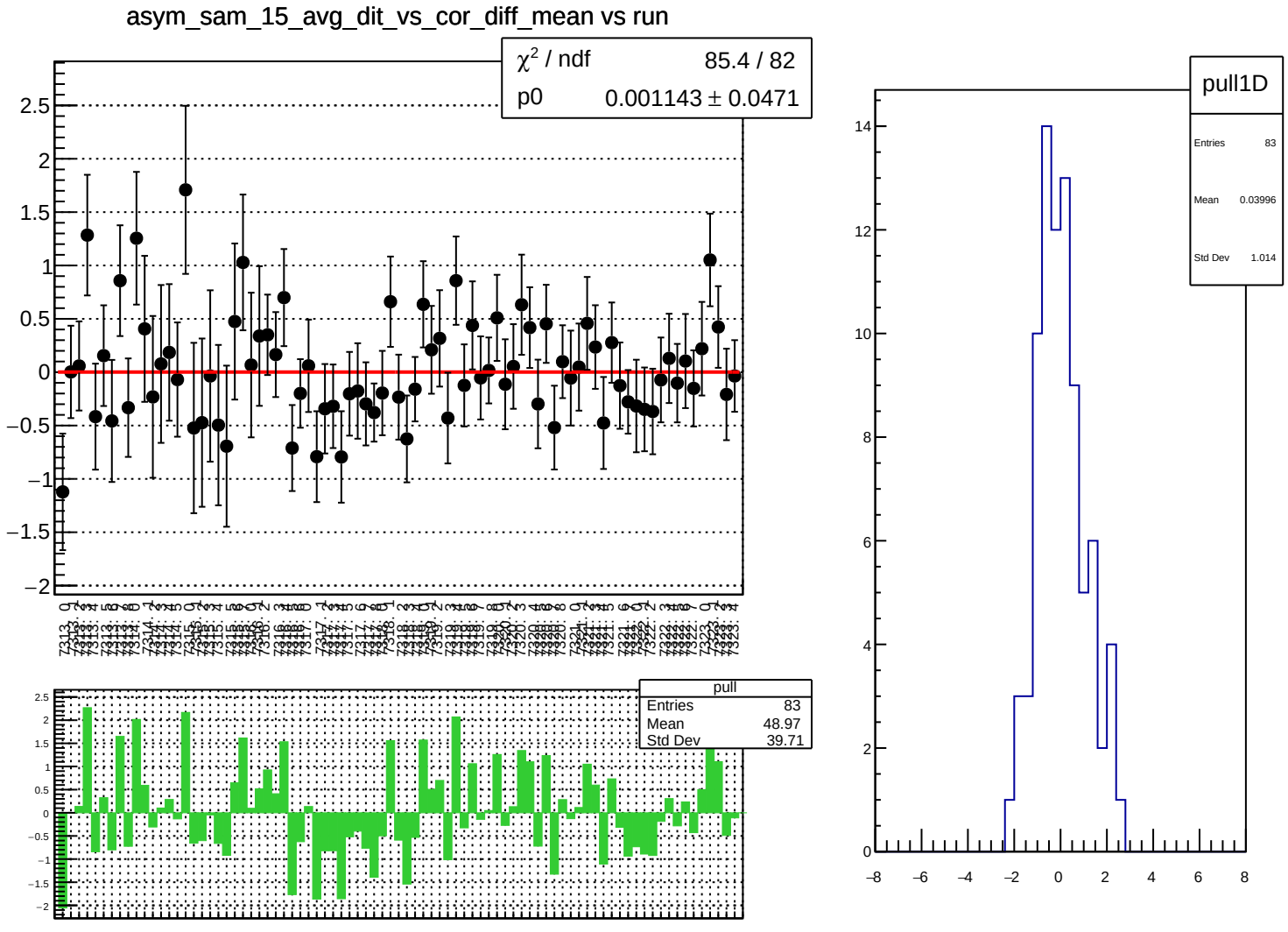

pull1D
Entries 83
Mean −0.02679
Std Dev 0.8919

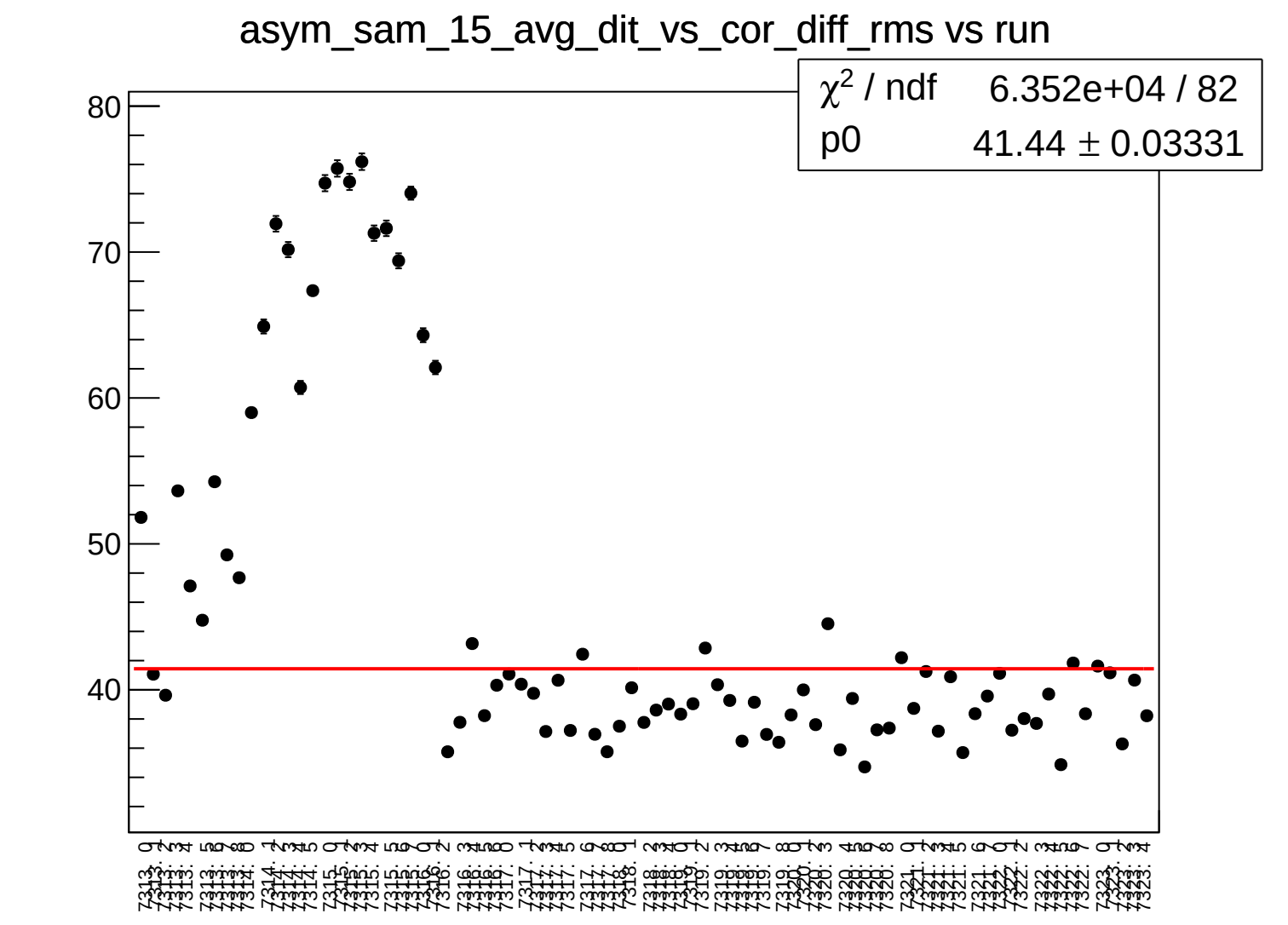

asym_sam_15_avg_rms vs run
χ² / ndf 8828 / 82
p0 404.5 ± 0.3195
480
460
440
420
400
380
360
340

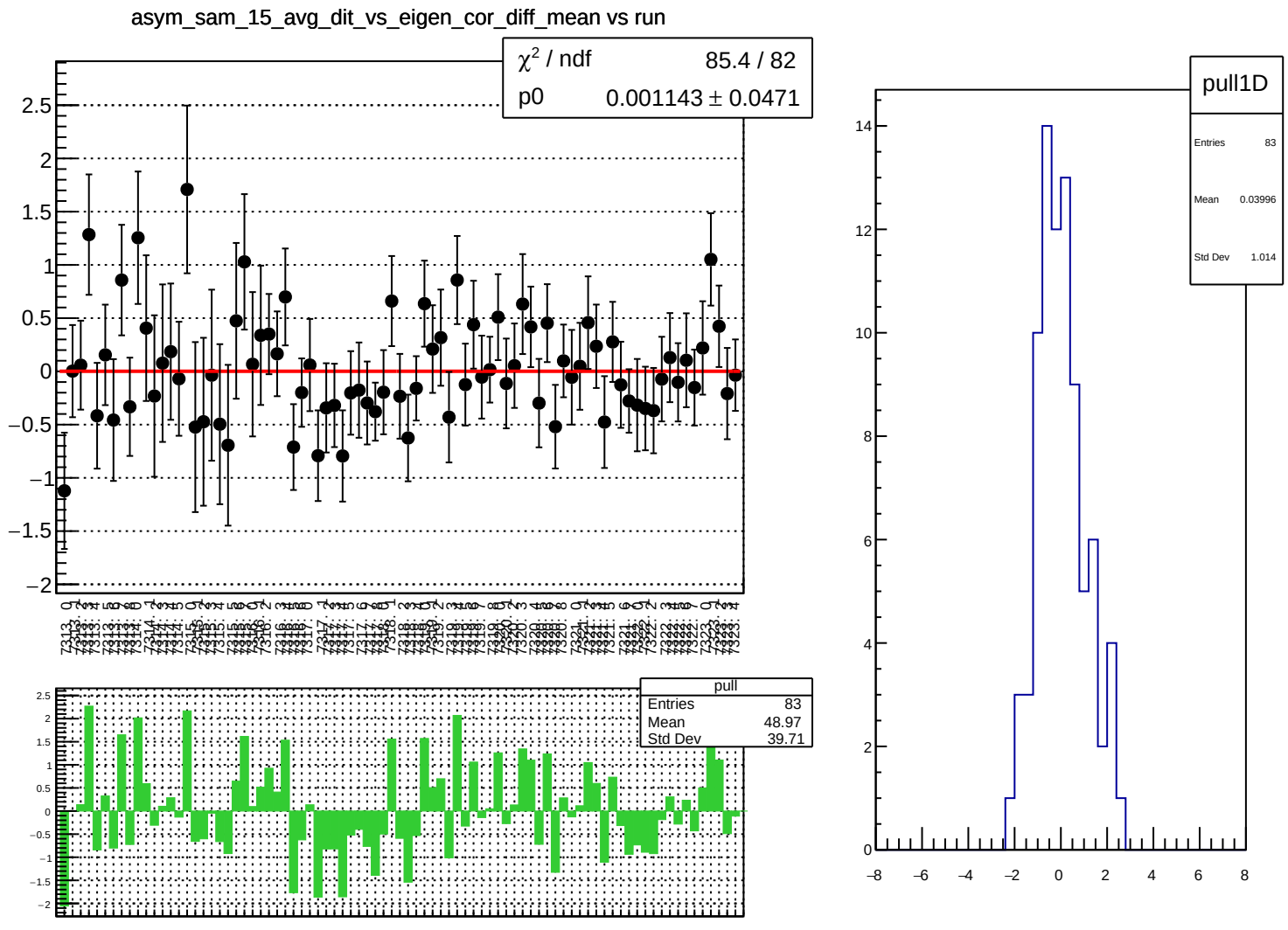

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.55 / 82
p0 −2.565e−14 ± 1.726e−14
pull
Entries 83
Mean 36.32
Std Dev 21.95

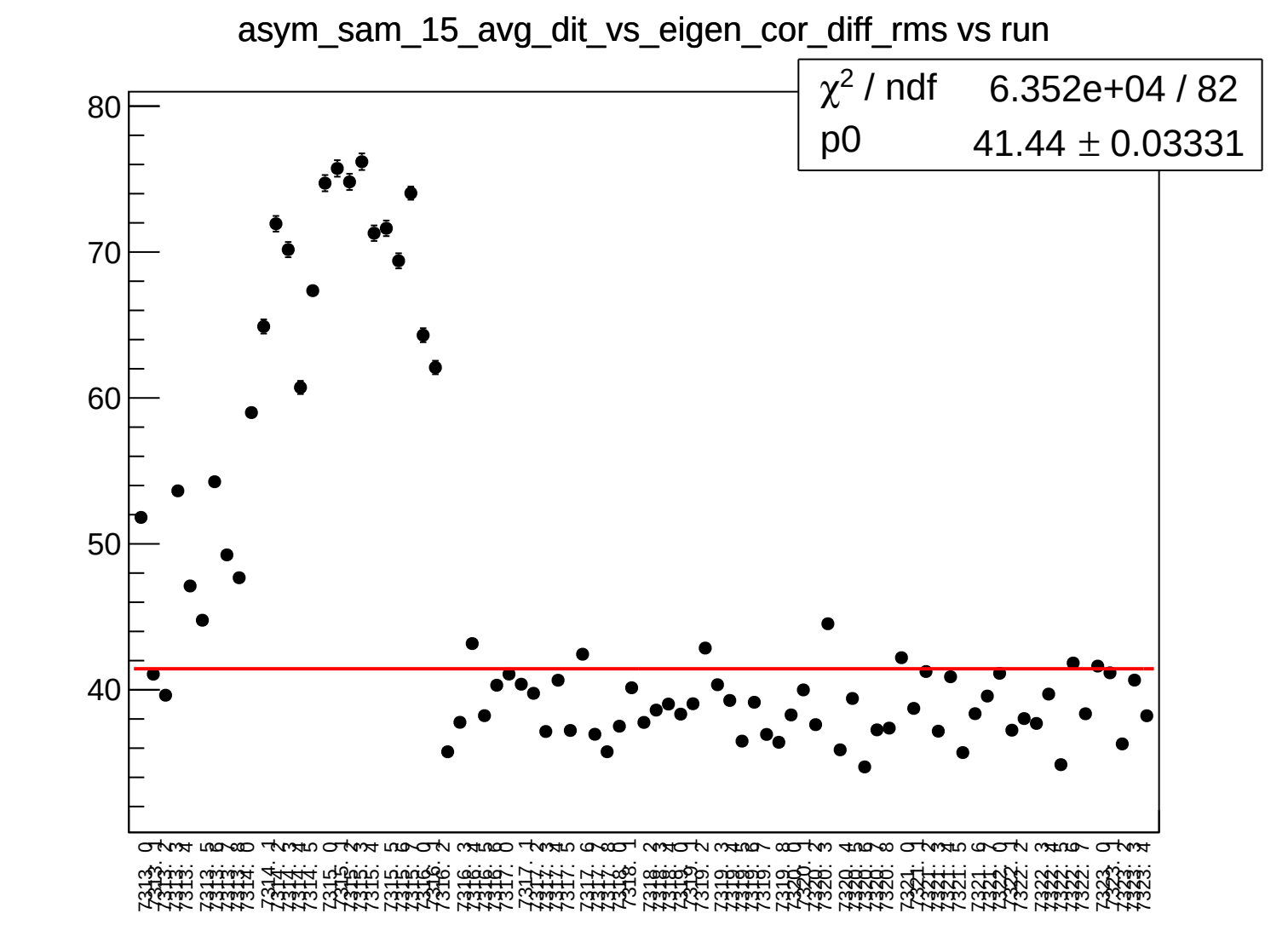

pull1D
Entries 83
Mean 0.06967
Std Dev 0.9703

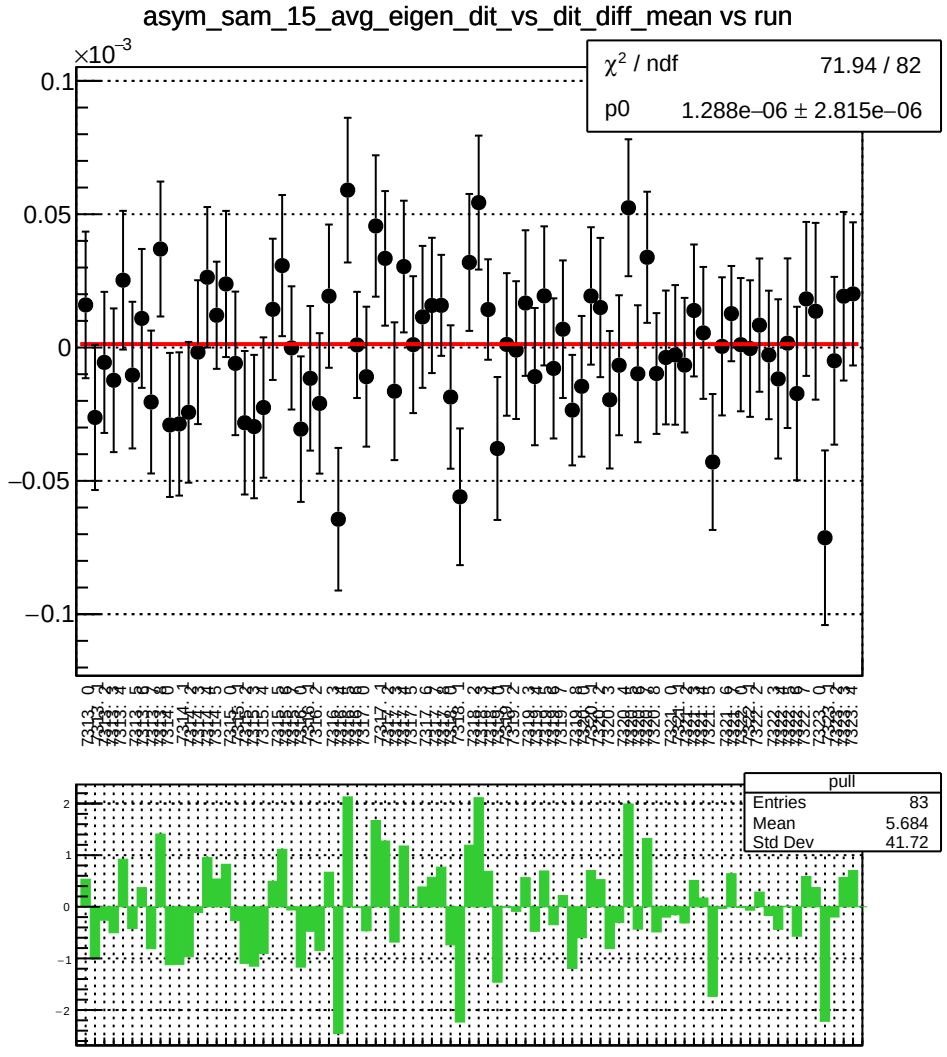

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 82
p0 7.973e−12 ± 1.22e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

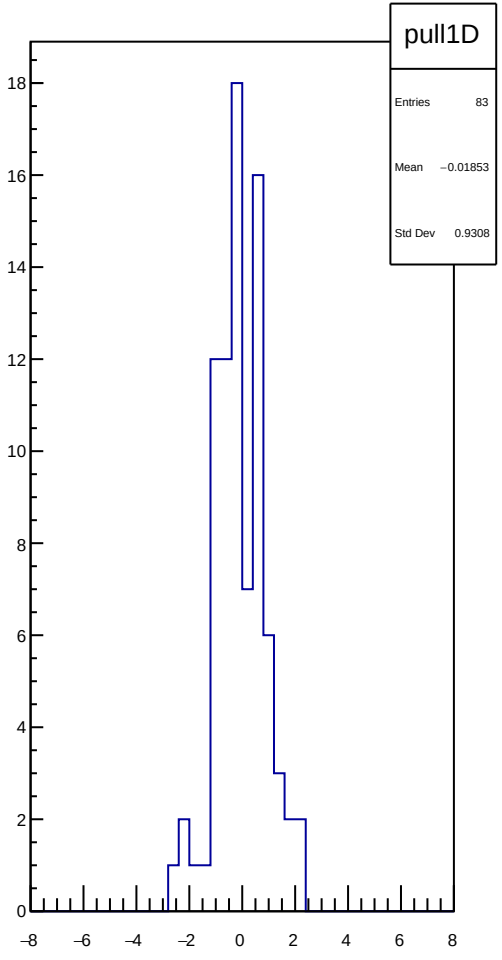

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.4 / 82
p0 0.001143 ± 0.0471
pull
Entries 83
Mean 48.97
Std Dev 39.71
pull1D
Entries 83
Mean 0.03996
Std Dev 1.014

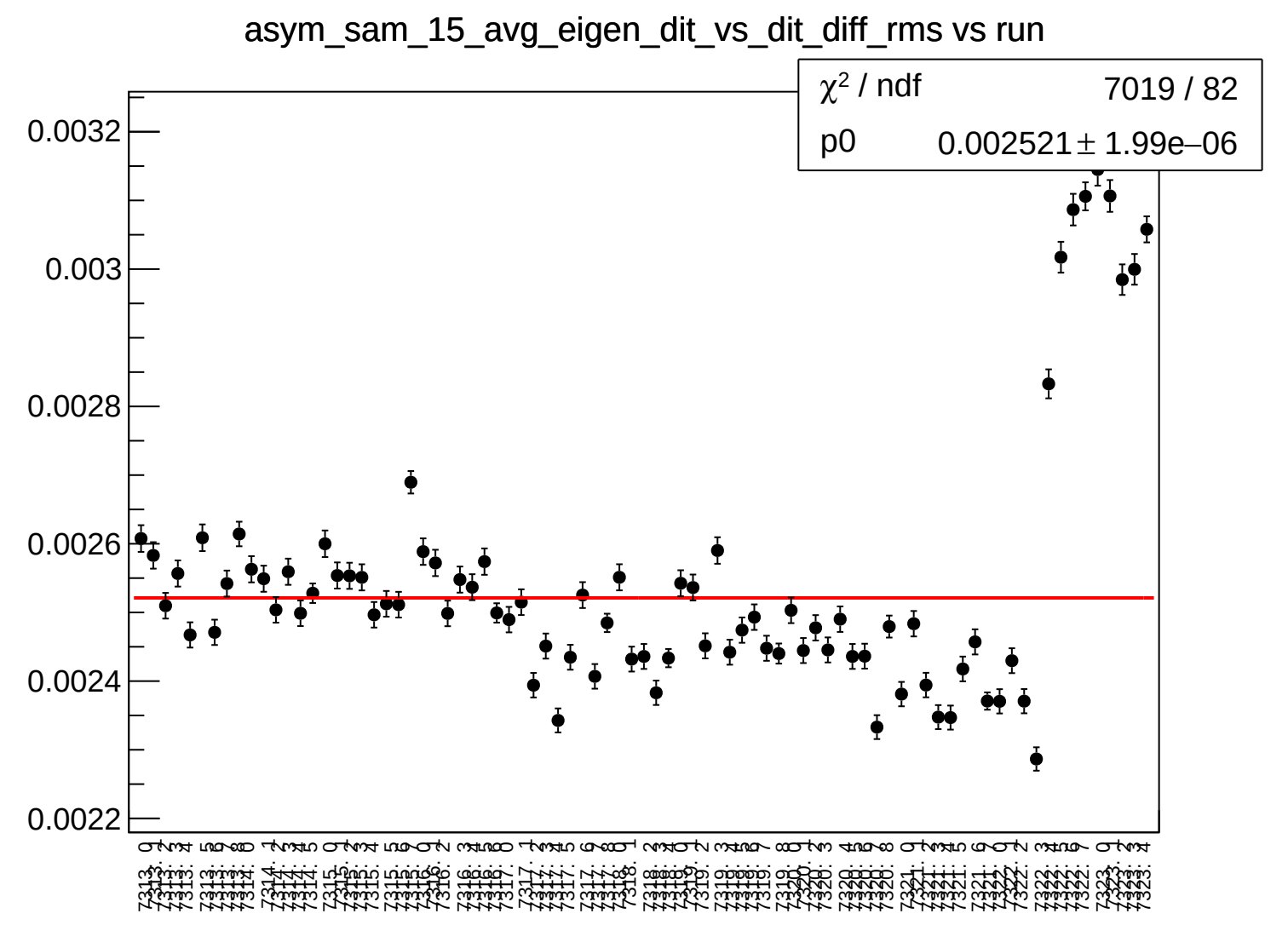

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.352e+04 / 82
p0 41.44 ± 0.03331
80
70
60
50
40

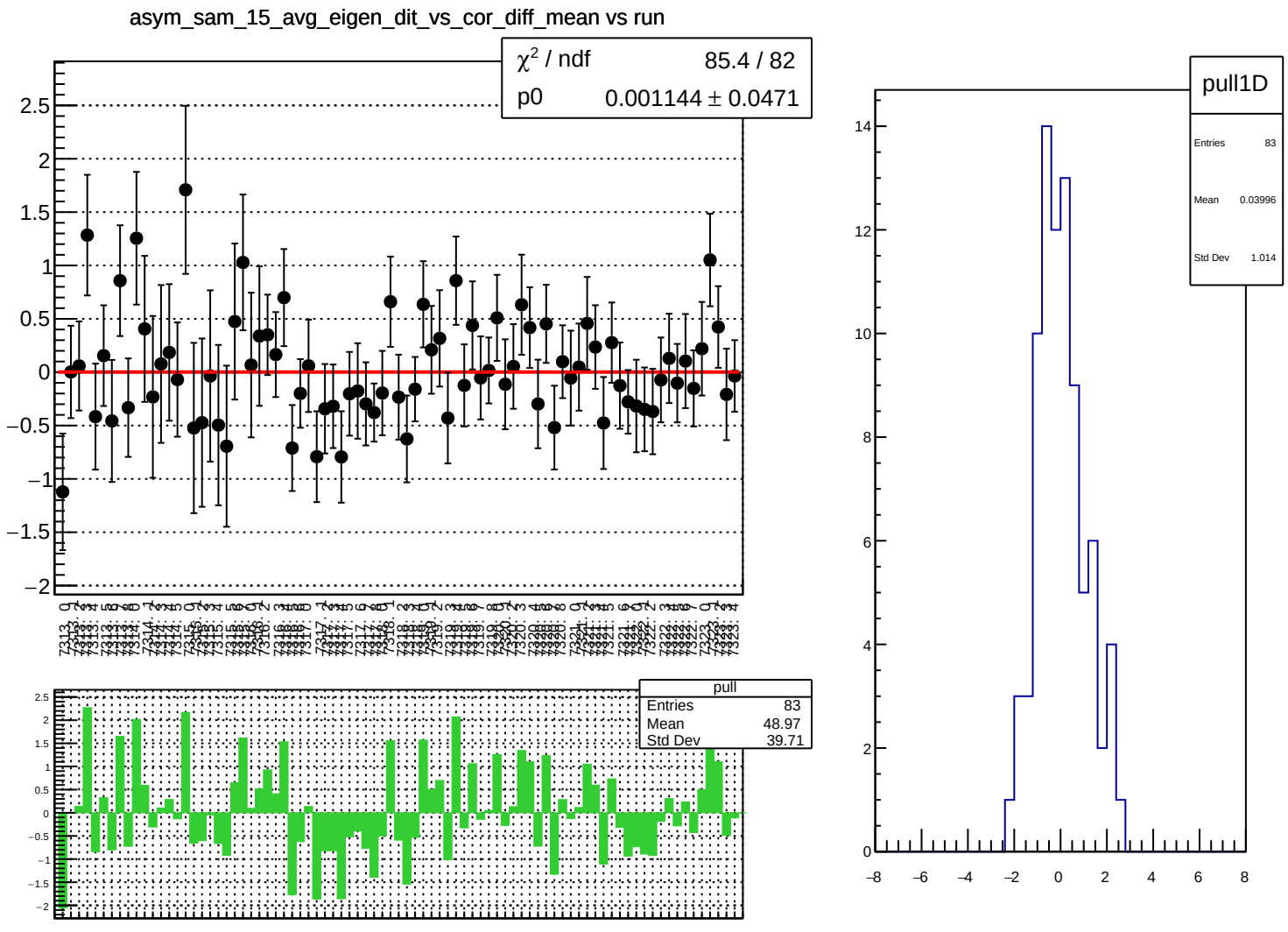

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.4 / 82
p0 0.001143 ± 0.0471
pull
Entries 83
Mean 48.97
Std Dev 39.71
pull1D
Entries 83
Mean 0.03996
Std Dev 1.014

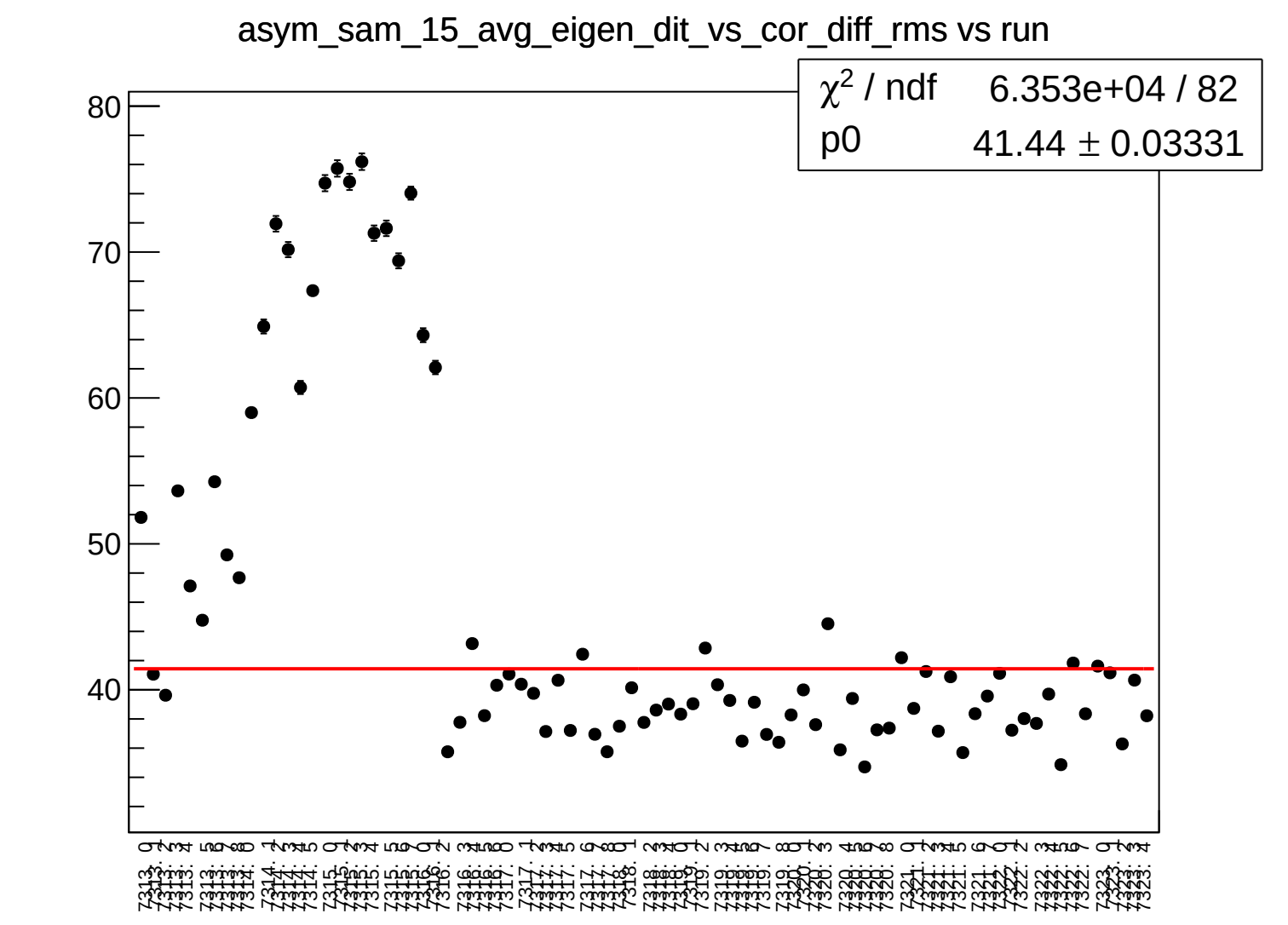

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.352e+04 / 82
p0 41.44 ± 0.03331
80
70
60
50
40

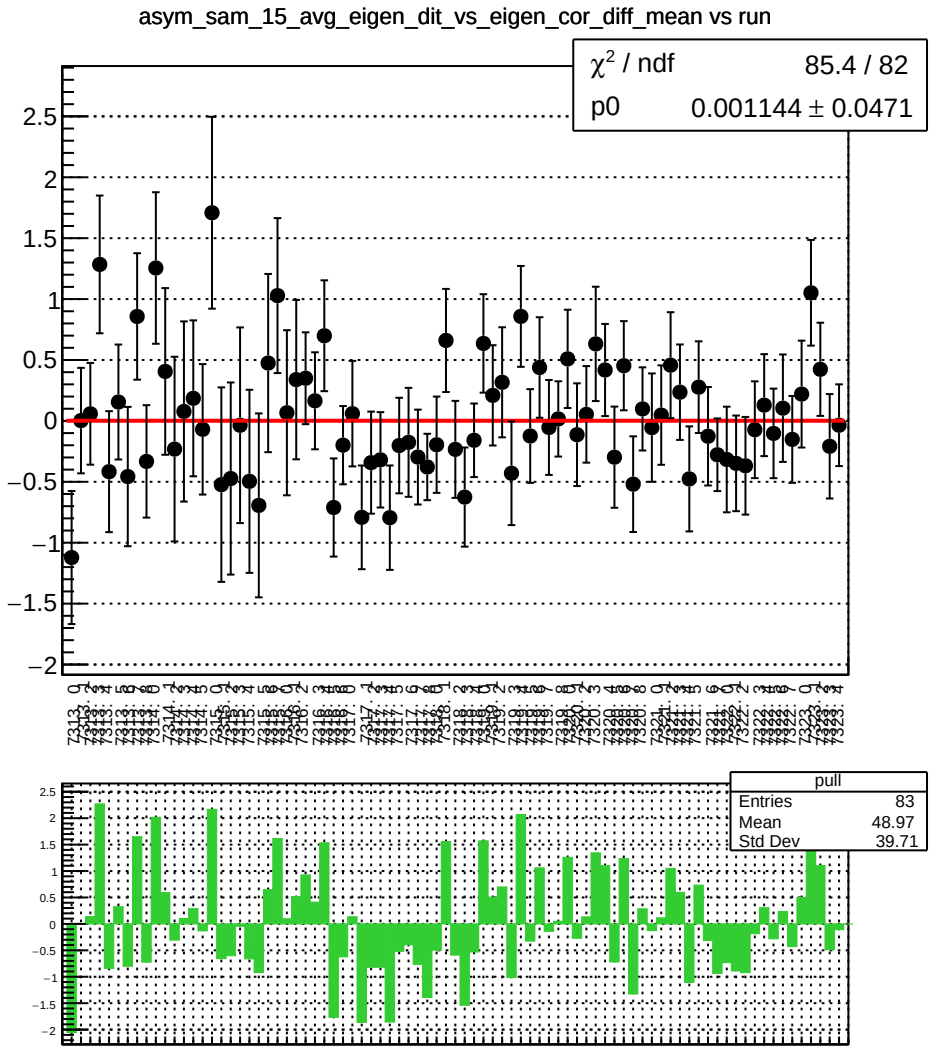

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.94 / 82
p0 1.288e−06 ± 2.815e−06
pull
Entries 83
Mean 5.684
Std Dev 41.72

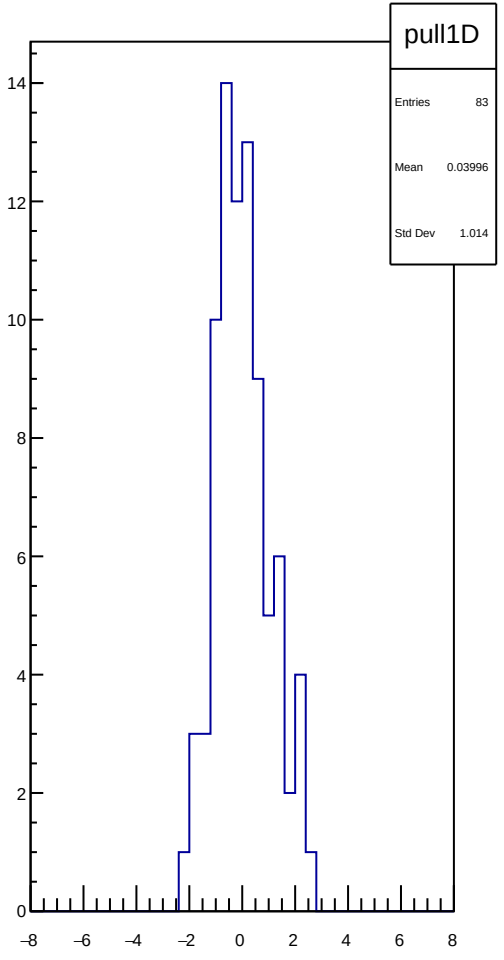

pull1D
Entries 83
Mean −0.01853
Std Dev 0.9308

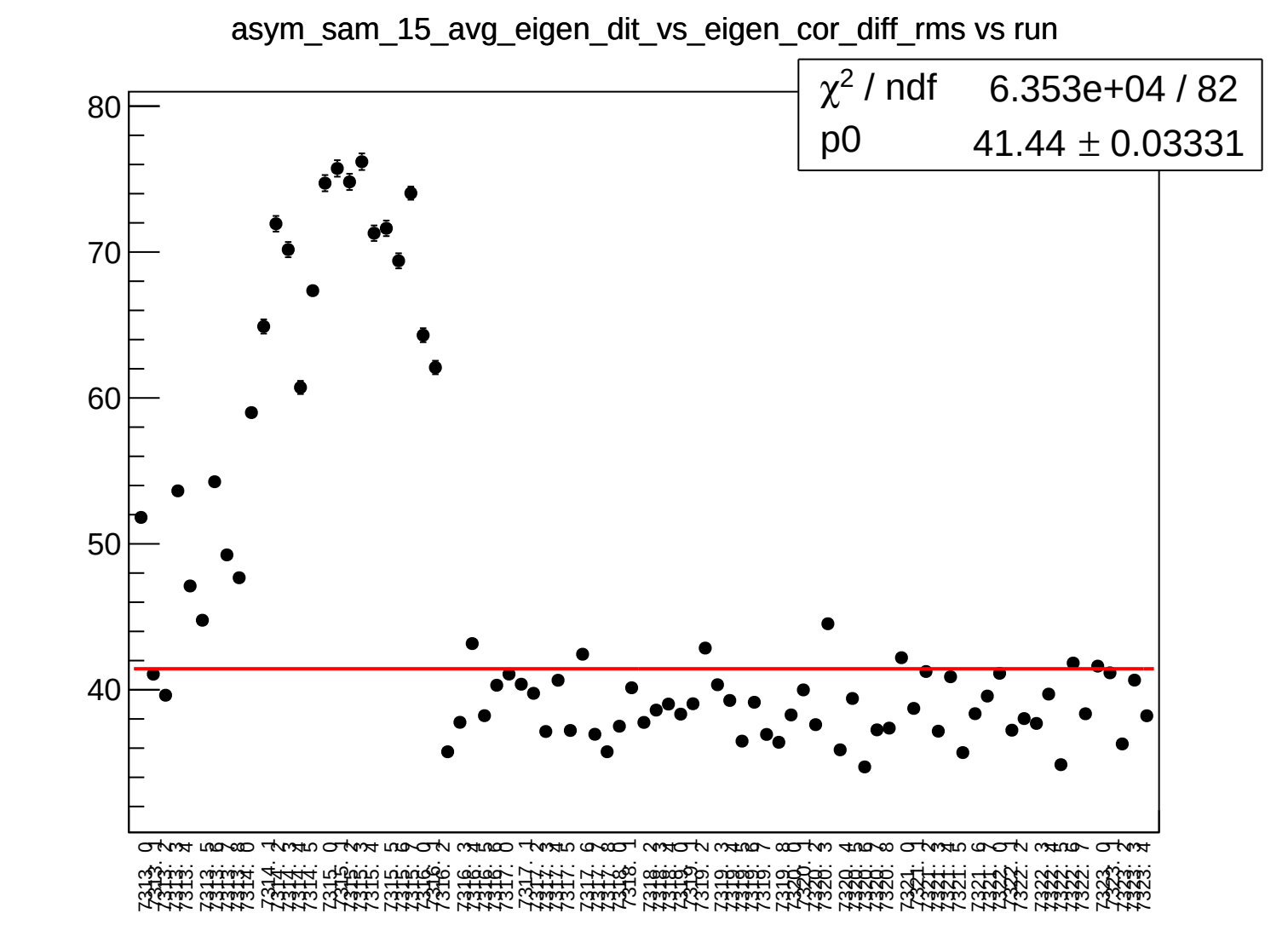

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7019 / 82
p0 0.002521 ± 1.99e–06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

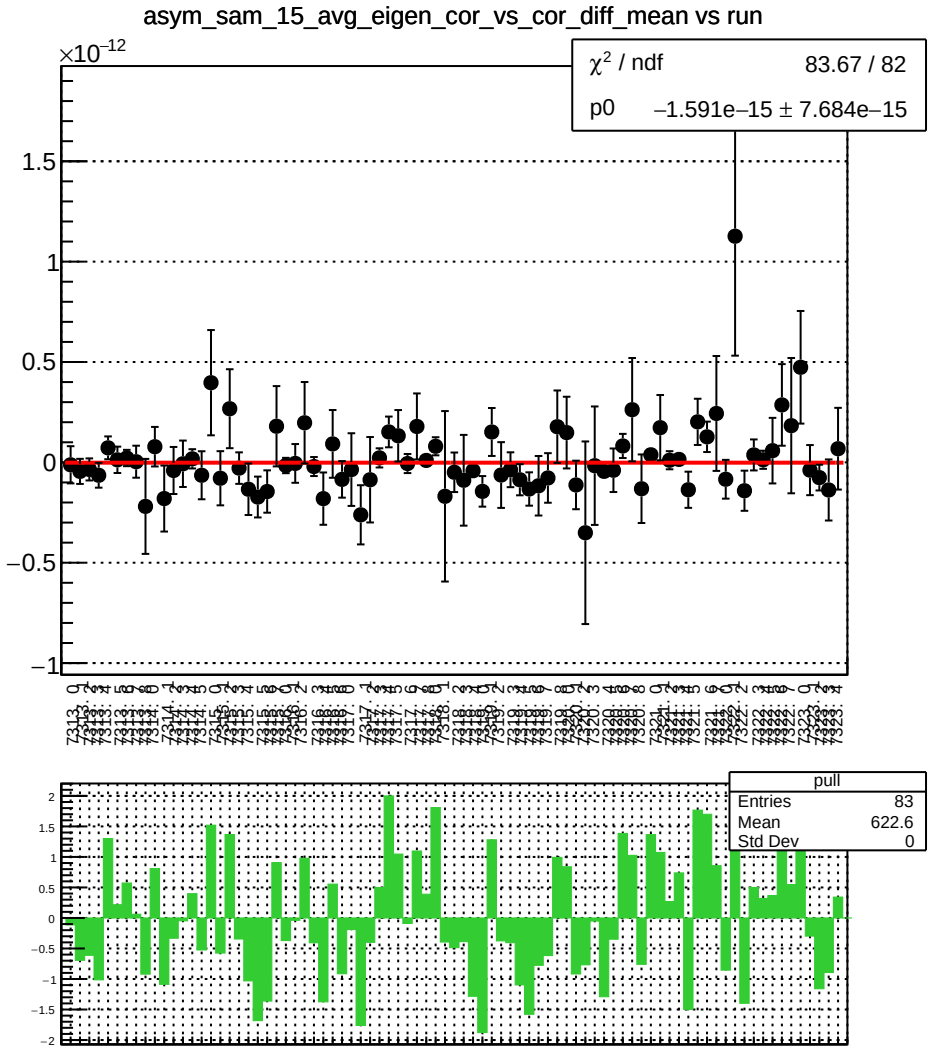

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.4 / 82
p0 0.001144 ± 0.0471
pull
Entries 83
Mean 48.97
Std Dev 39.71
pull1D
Entries 83
Mean 0.03996
Std Dev 1.014

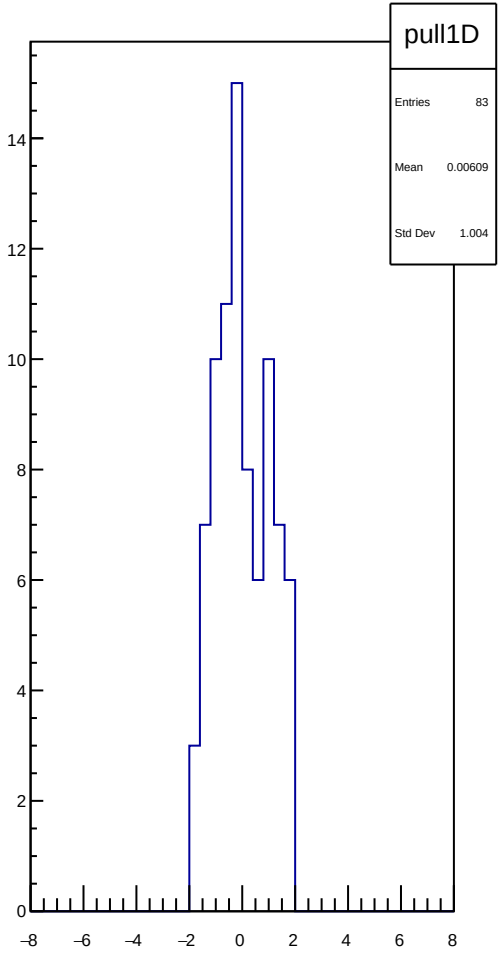

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.353e+04 / 82
p0 41.44 ± 0.03331
80
70
60
50
40

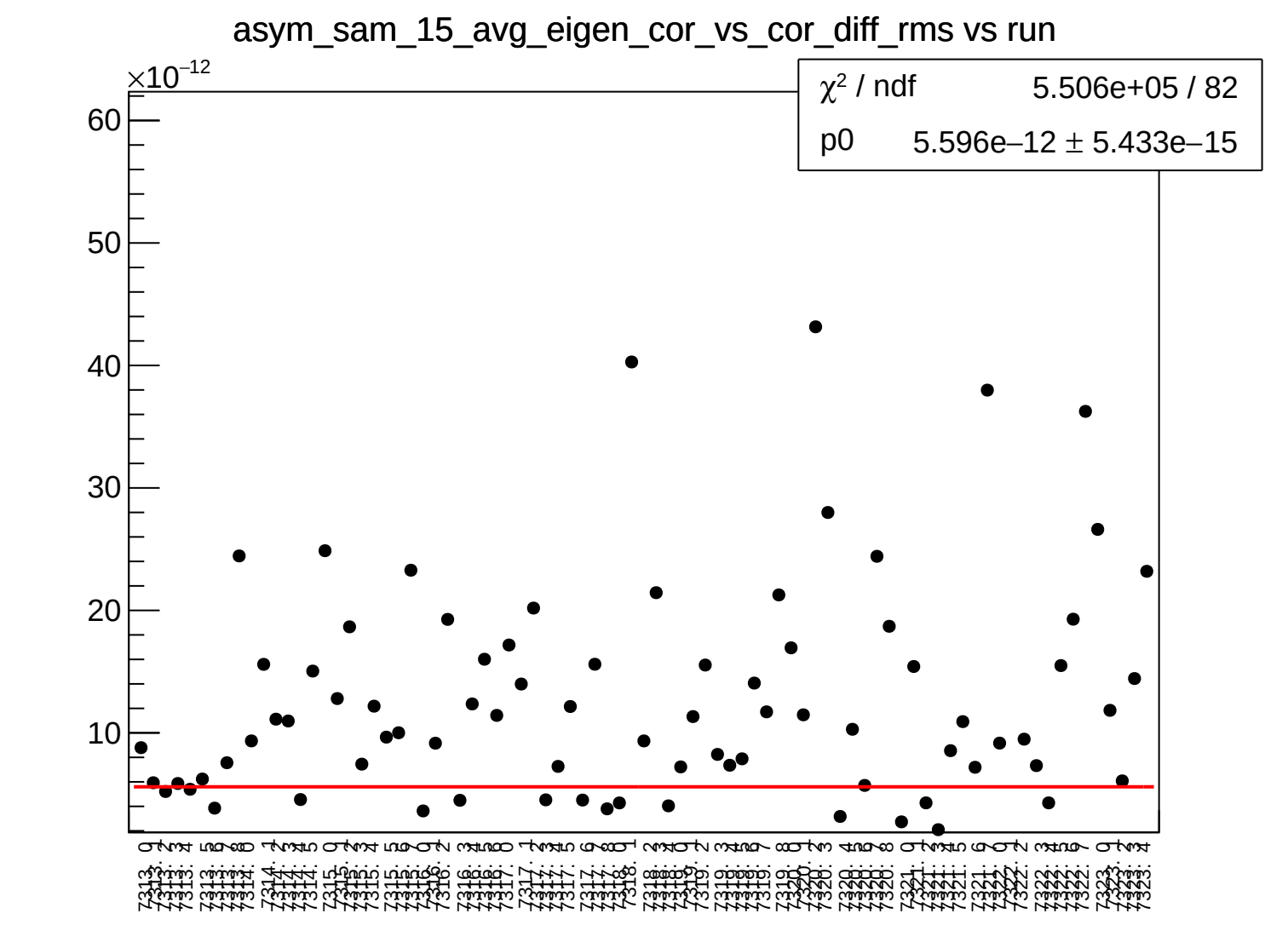

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.4 / 82
p0 0.001144 ± 0.0471
pull
Entries 83
Mean 48.97
Std Dev 39.71

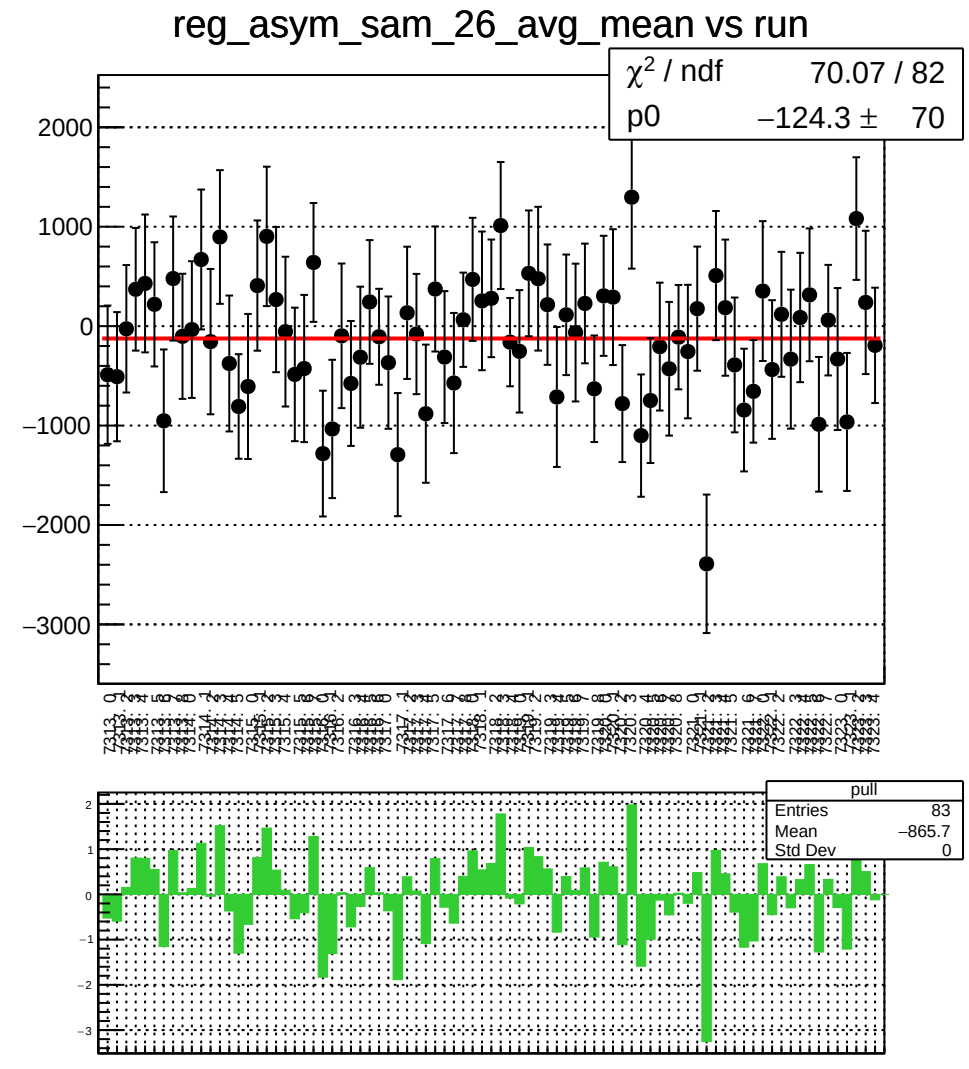

pull1D
Entries 83
Mean 0.03996
Std Dev 1.014

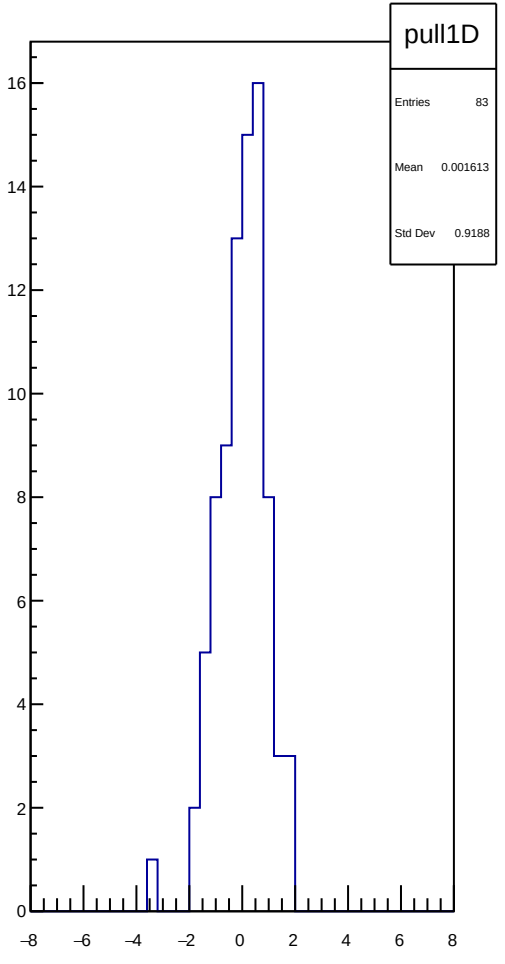

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.353e+04 / 82
p0 41.44 ± 0.03331
80
70
60
50
40

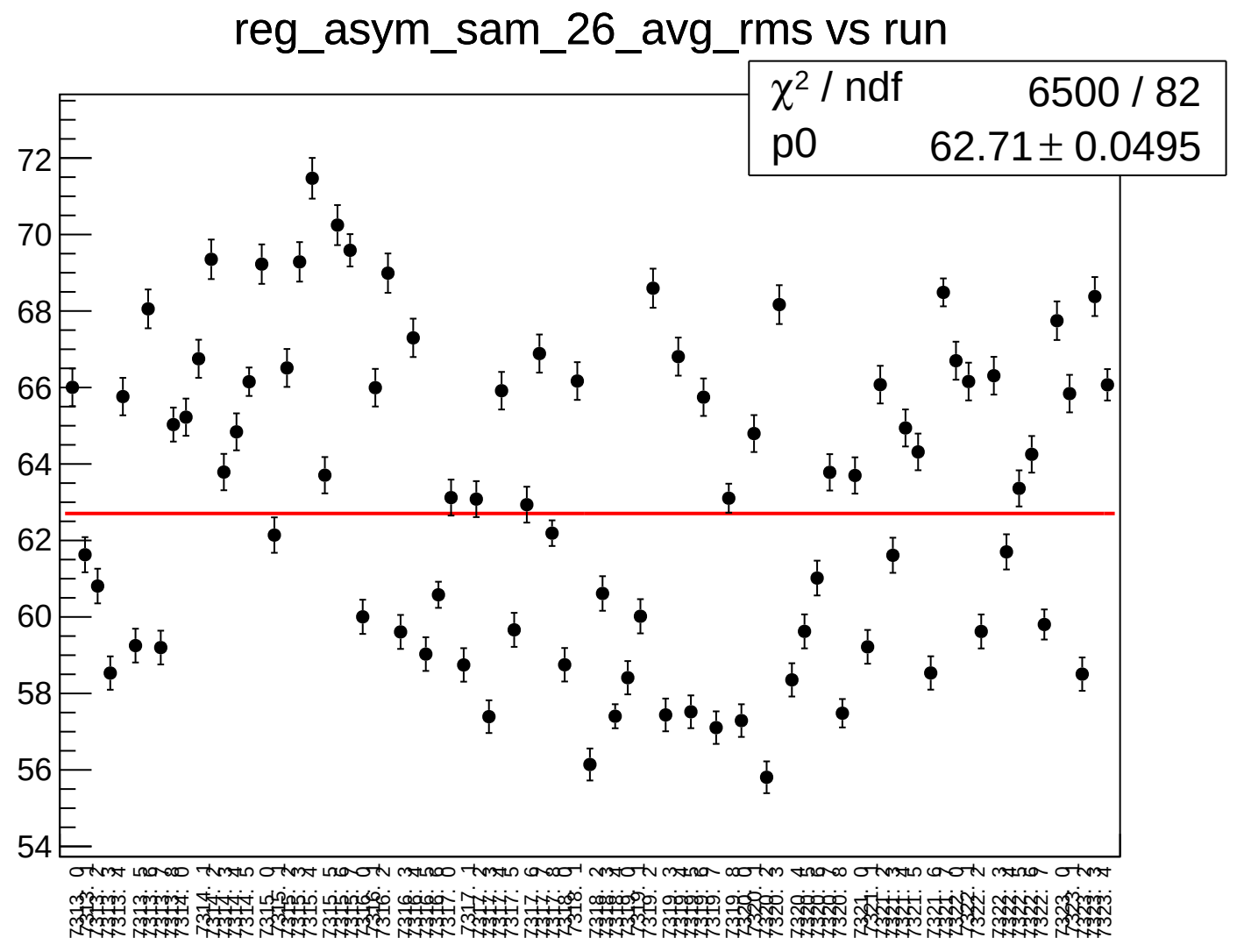

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.67 / 82
p0 −1.591e−15 ± 7.684e−15
pull
Entries 83
Mean 622.6
Std Dev 0

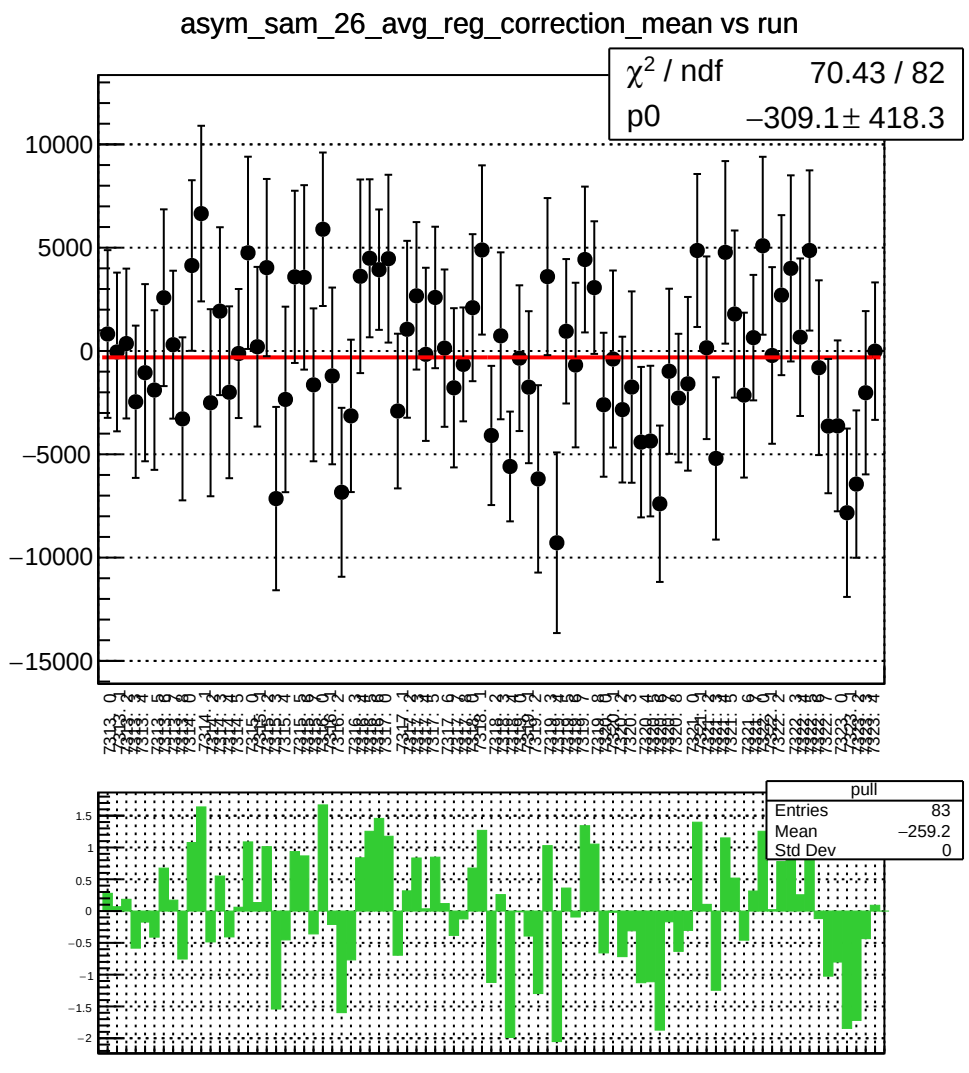

pull1D
Entries 83
Mean 0.00609
Std Dev 1.004

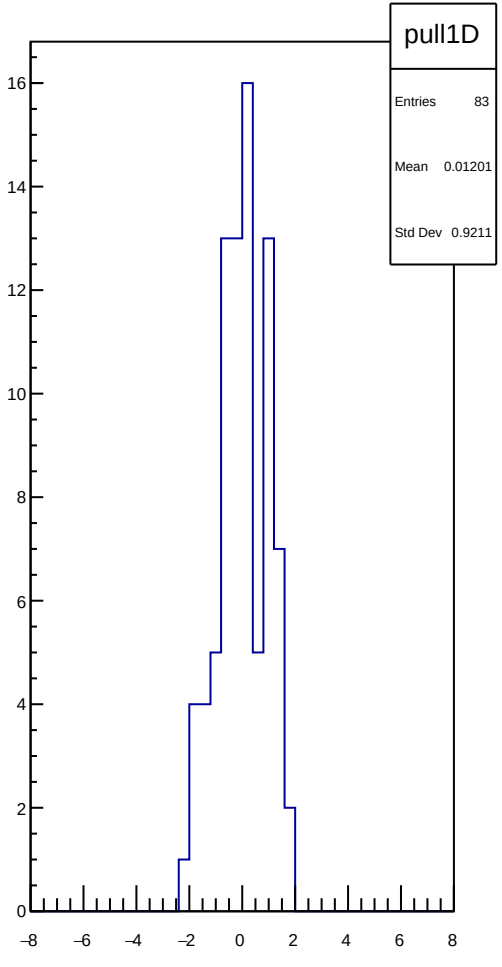

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.506e+05 / 82
p0 5.596e−12 ± 5.433e−15
60
50
40
30
20
10

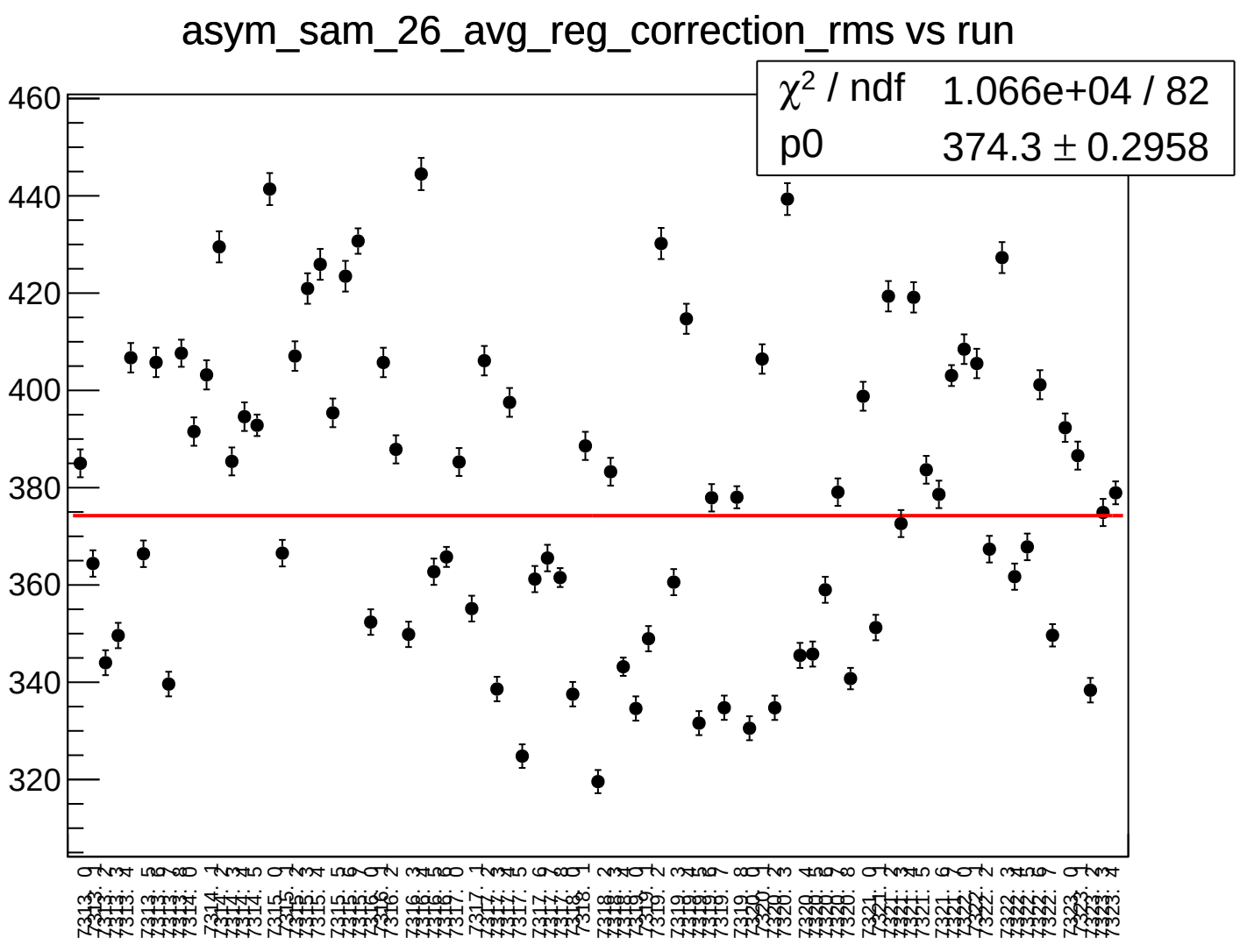

reg_asym_sam_26_avg_mean vs run
χ² / ndf 70.07 / 82
p0 −124.3 ± 70
pull
Entries 83
Mean −865.7
Std Dev 0

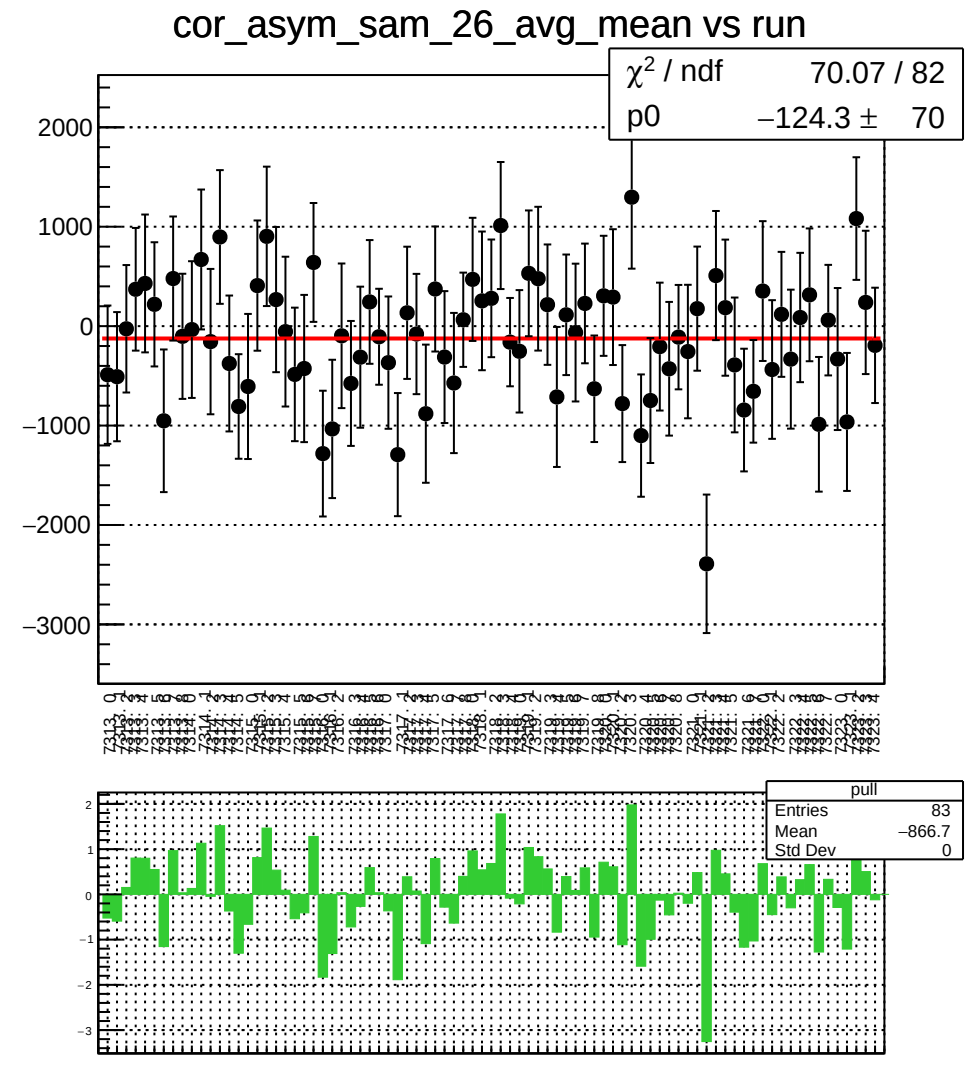

pull1D
Entries 83
Mean 0.001613
Std Dev 0.9188

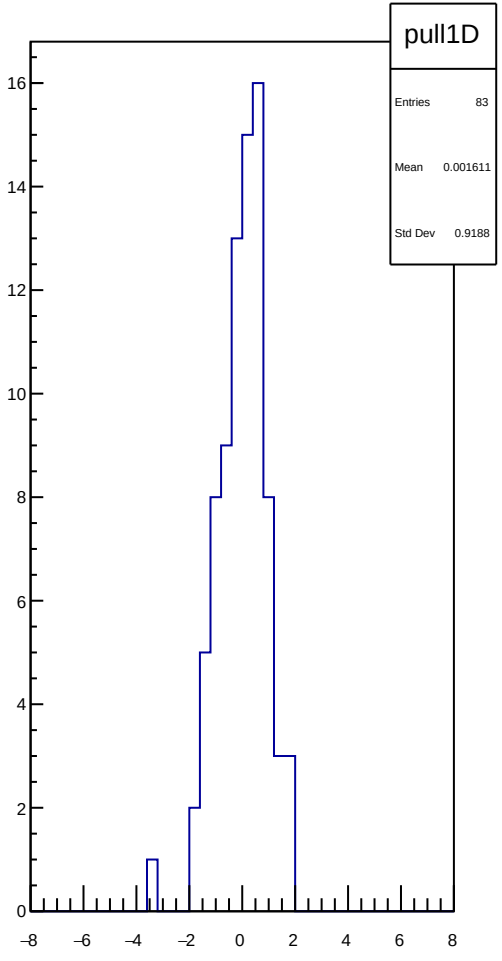

reg_asym_sam_26_avg_rms vs run
χ² / ndf 6500 / 82
p0 62.71 ± 0.0495
72
70
68
66
64
62
60
58
56
54

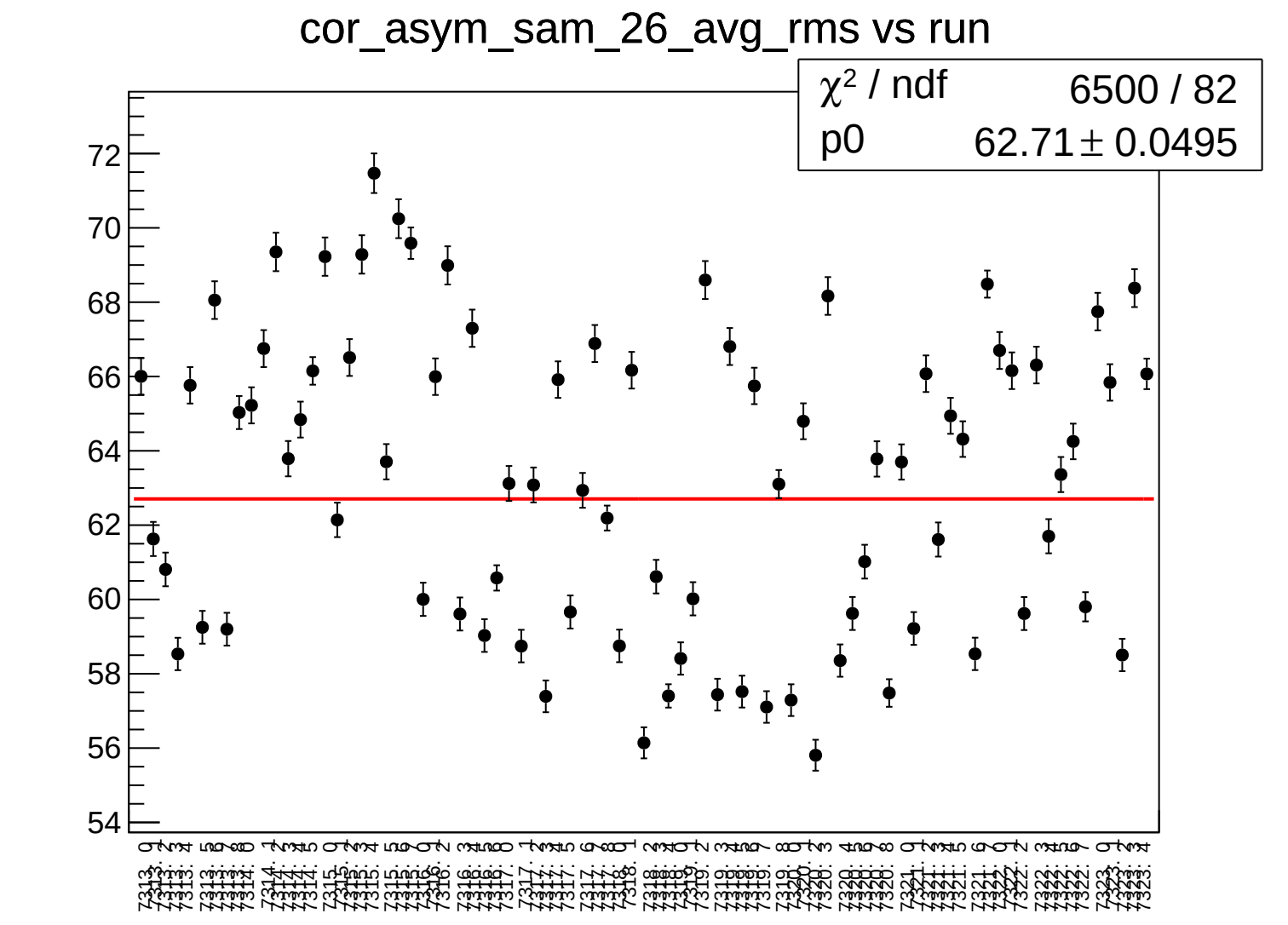

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 70.43 / 82
p0 −309.1 ± 418.3
pull
Entries 83
Mean −259.2
Std Dev 0

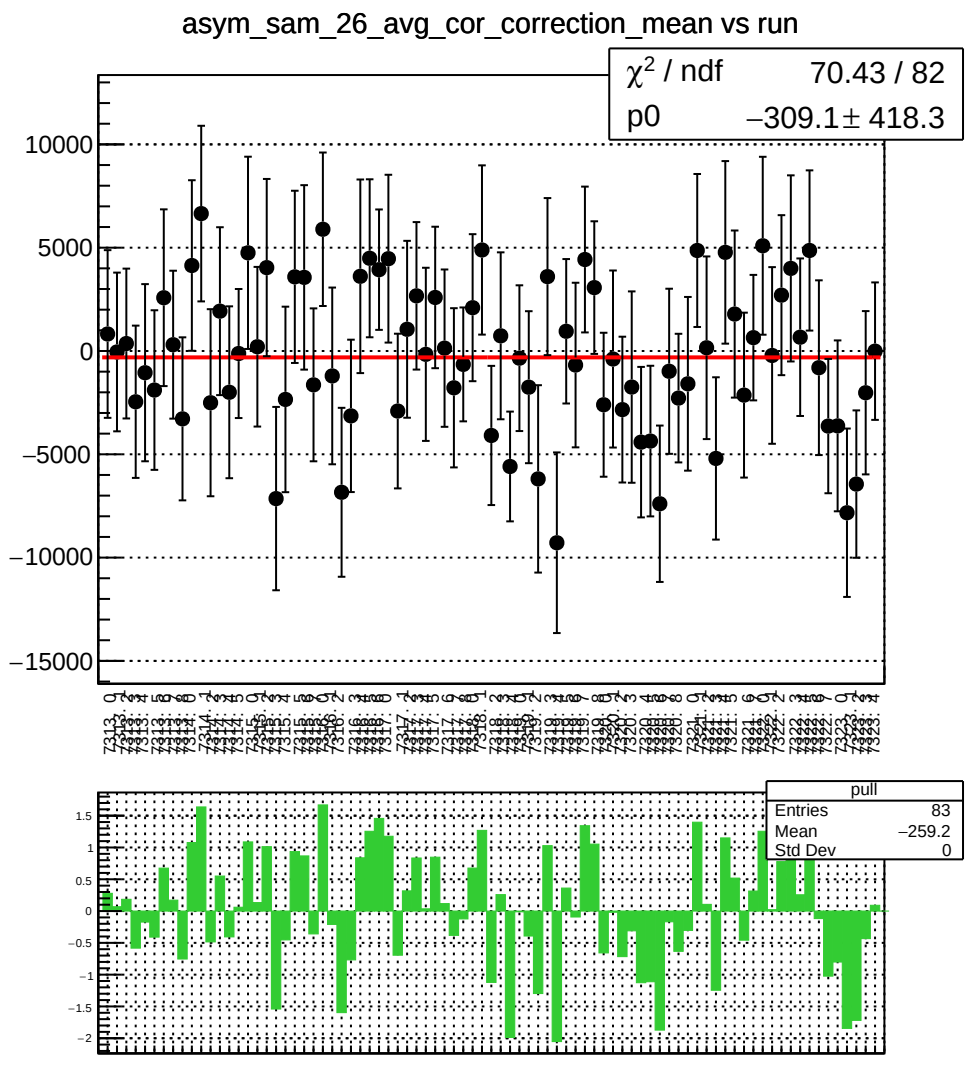

pull1D
Entries 83
Mean 0.01201
Std Dev 0.9211

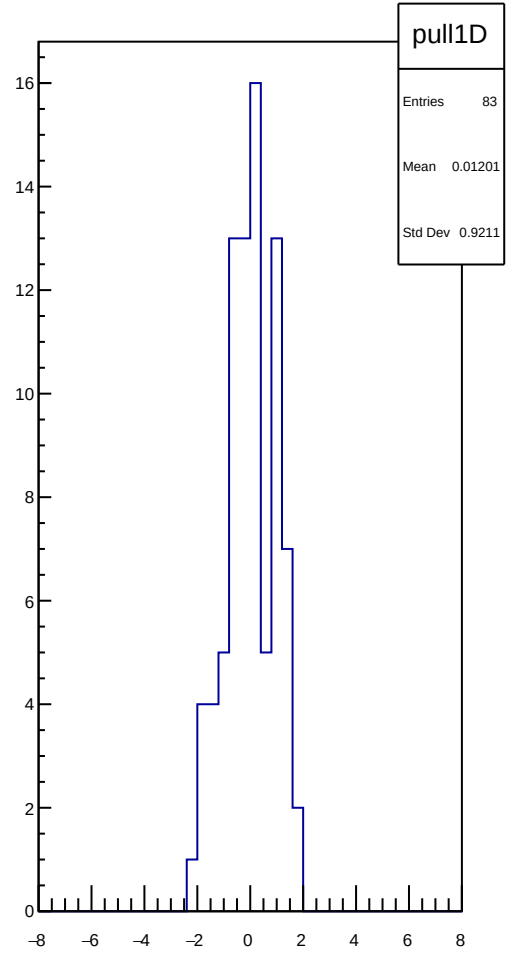

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.066e+04 / 82
p0 374.3 ± 0.2958
460
440
420
400
380
360
340
320

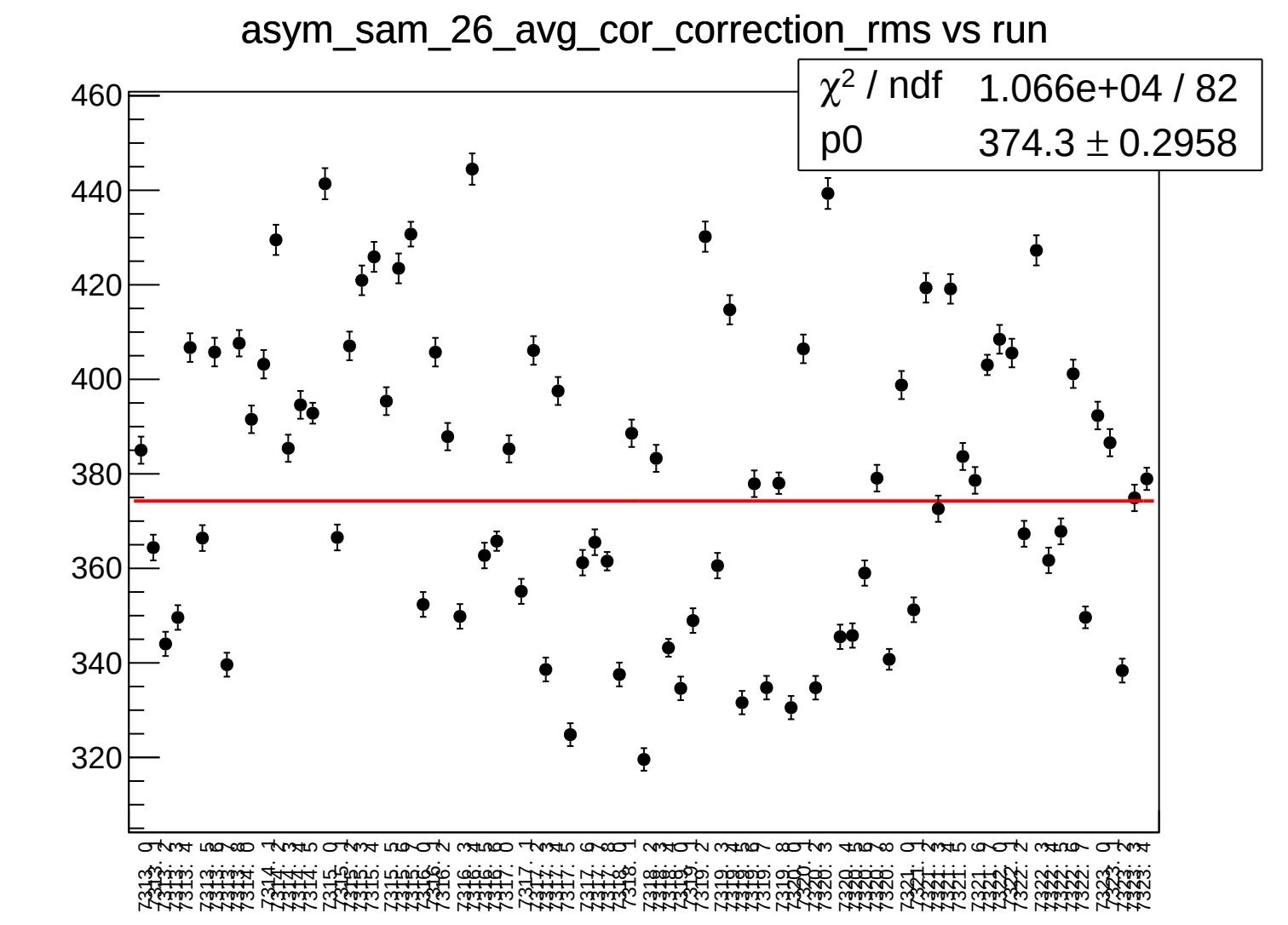

cor_asym_sam_26_avg_mean vs run
χ² / ndf 70.07 / 82
p0 −124.3 ± 70
pull
Entries 83
Mean −866.7
Std Dev 0

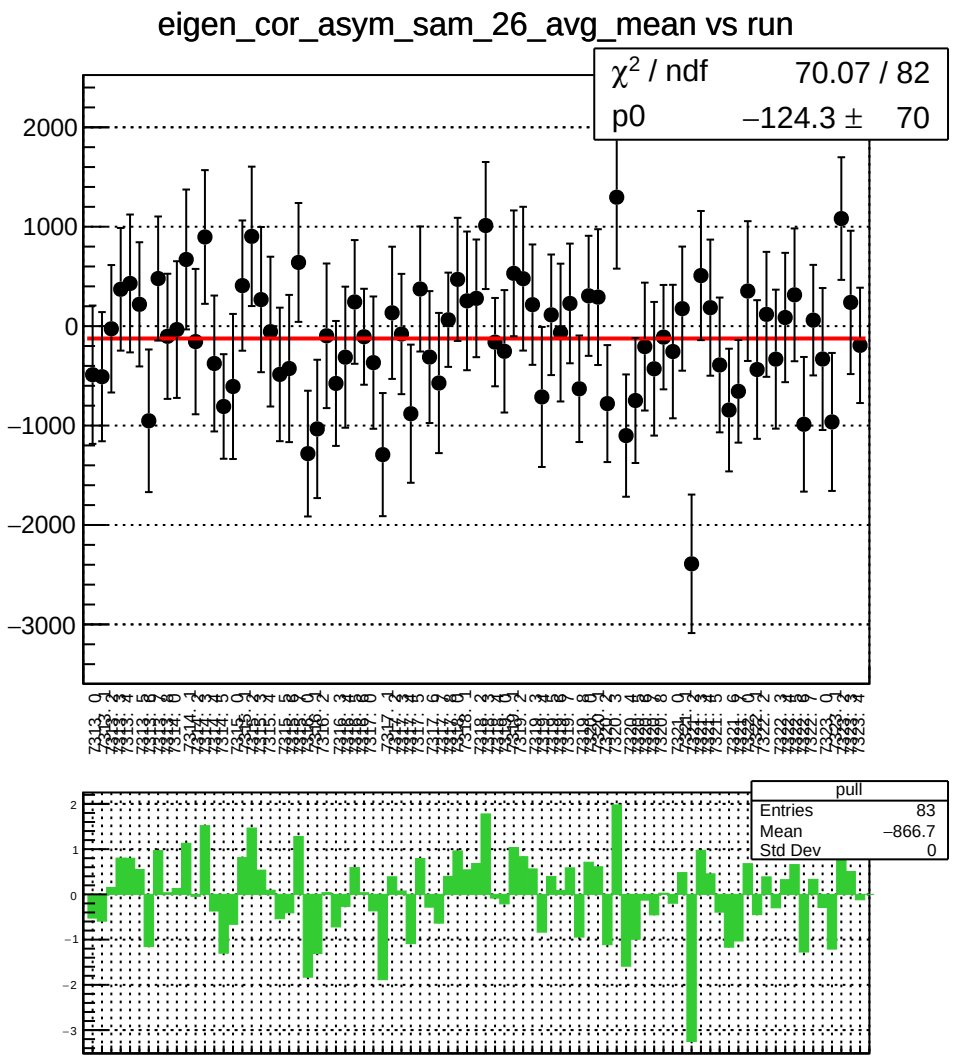

pull1D
Entries 83
Mean 0.001611
Std Dev 0.9188

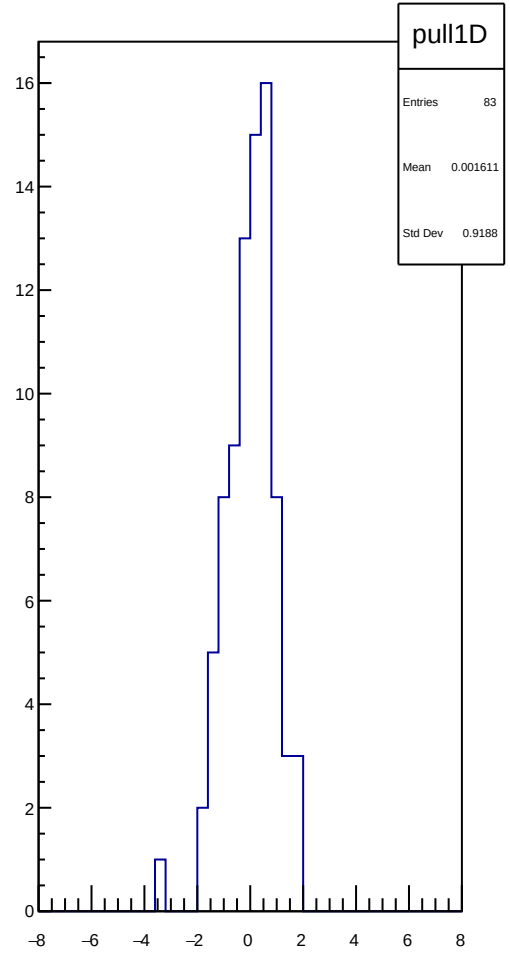

cor_asym_sam_26_avg_rms vs run
χ² / ndf 6500 / 82
p0 62.71 ± 0.0495
72
70
68
66
64
62
60
58
56
54

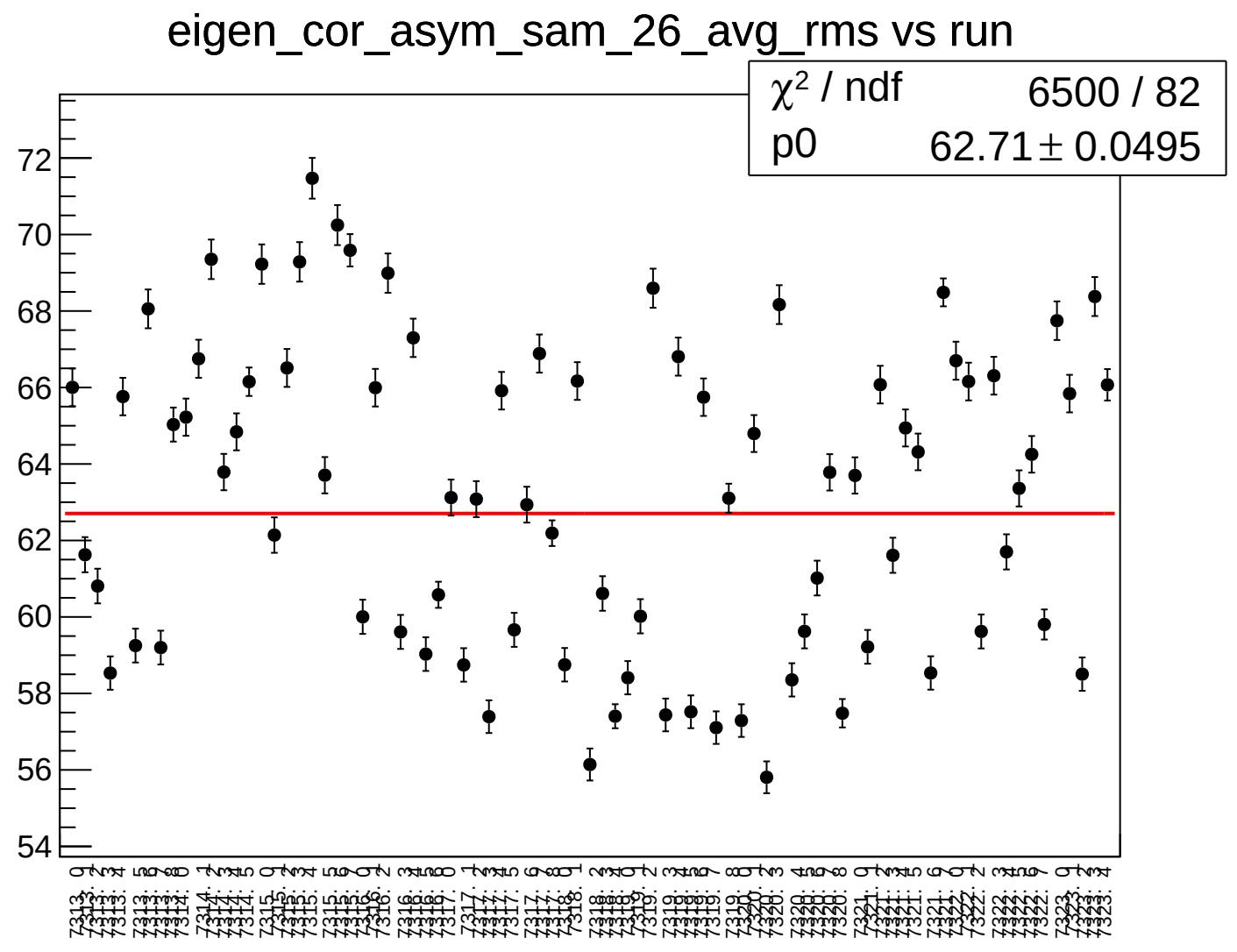

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 70.43 / 82
p0 −309.1 ± 418.3
pull
Entries 83
Mean −259.2
Std Dev 0

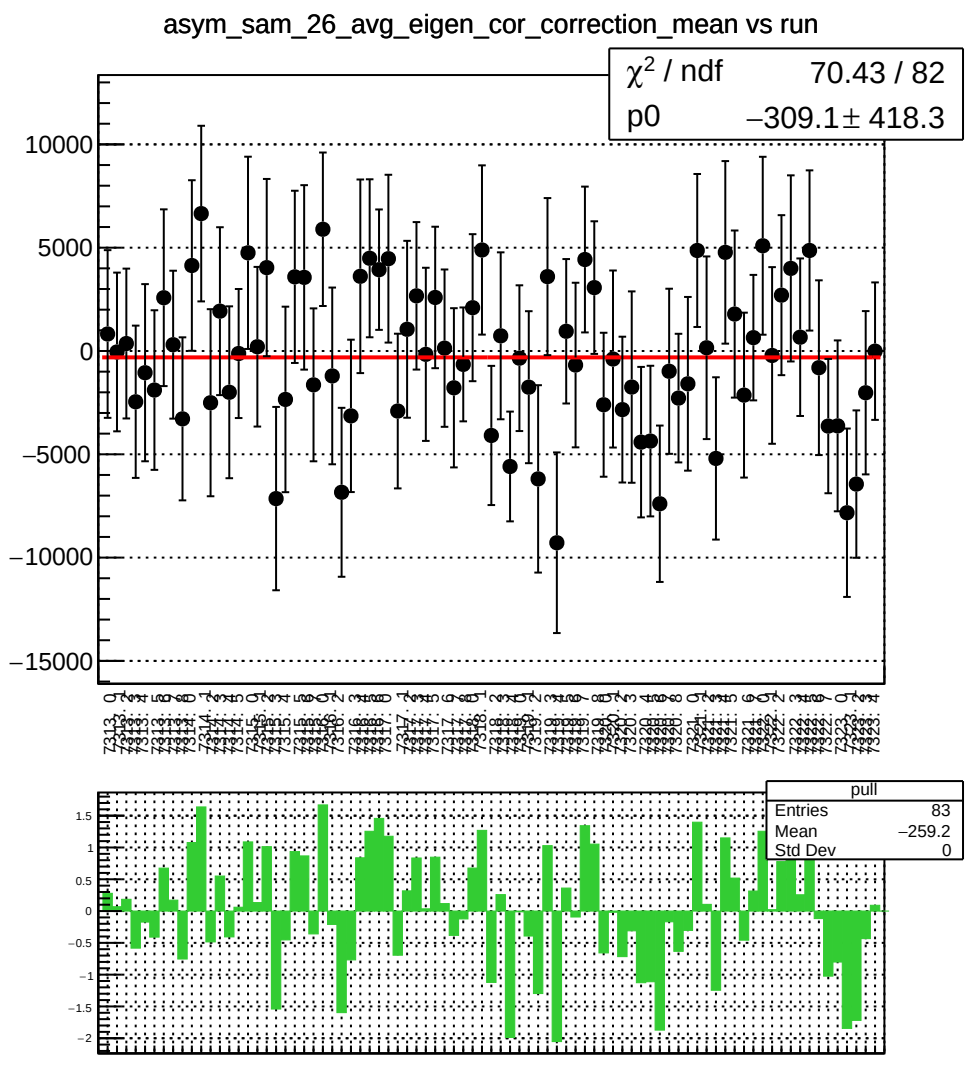

pull1D
Entries 83
Mean 0.01201
Std Dev 0.9211

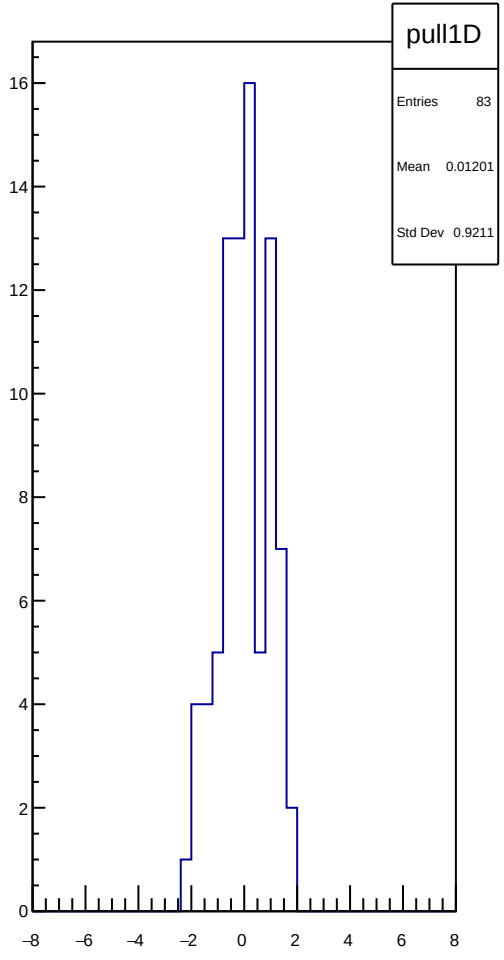

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 82
p0 374.3 ± 0.2958
460
440
420
400
380
360
340
320

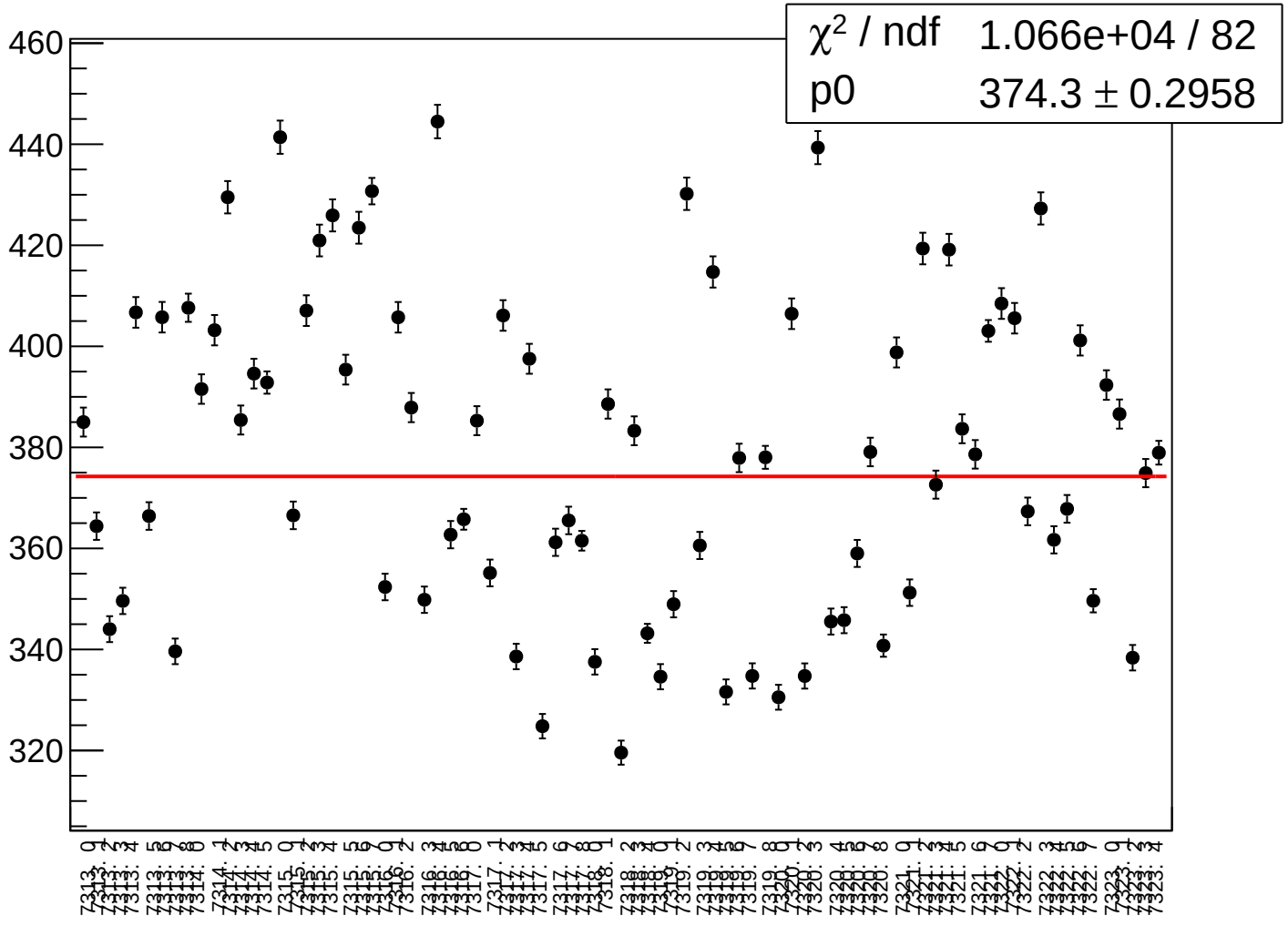

eigen_cor_asym_sam_26_avg_mean vs run
χ^2 / ndf 70.07 / 82
p0 −124.3 ± 70
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −866.7
Std Dev 0
2
1
0
−1
−2
−3

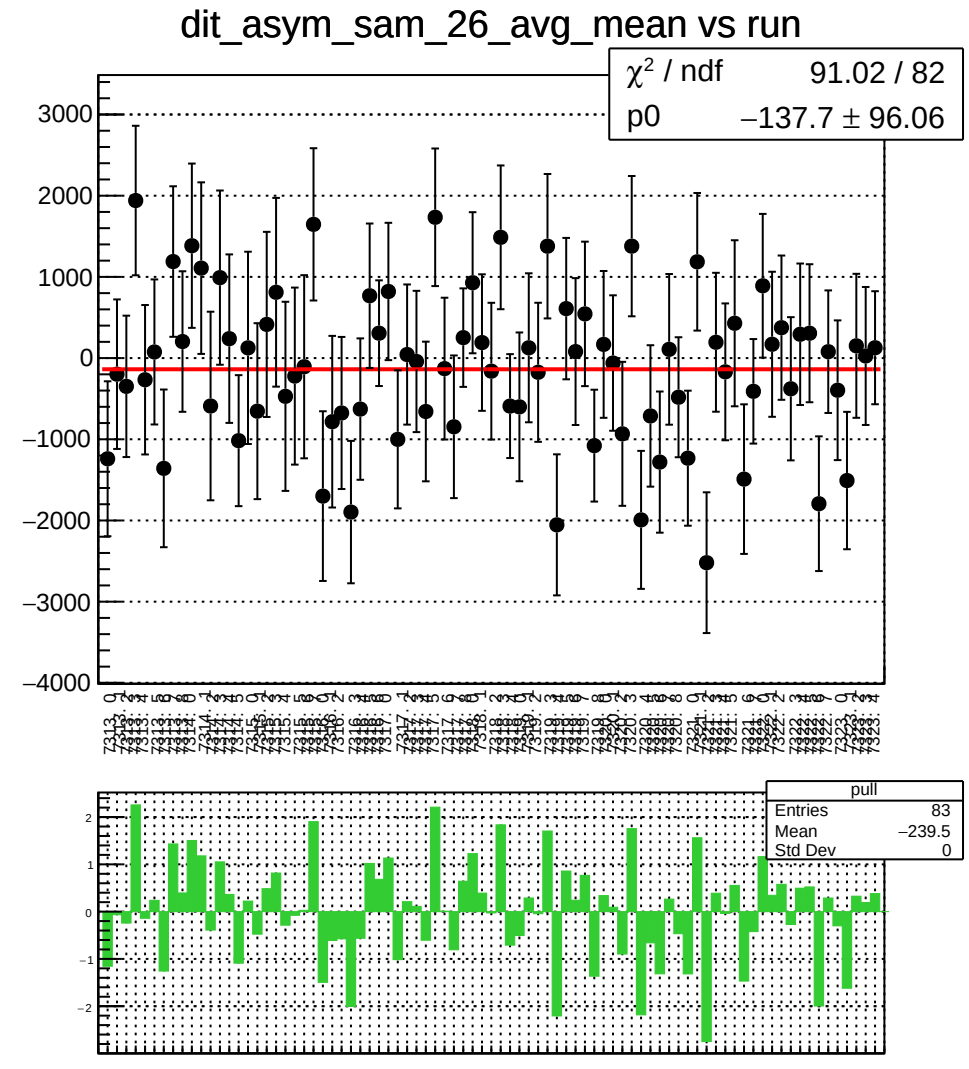

pull1D
Entries 83
Mean 0.001611
Std Dev 0.9188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

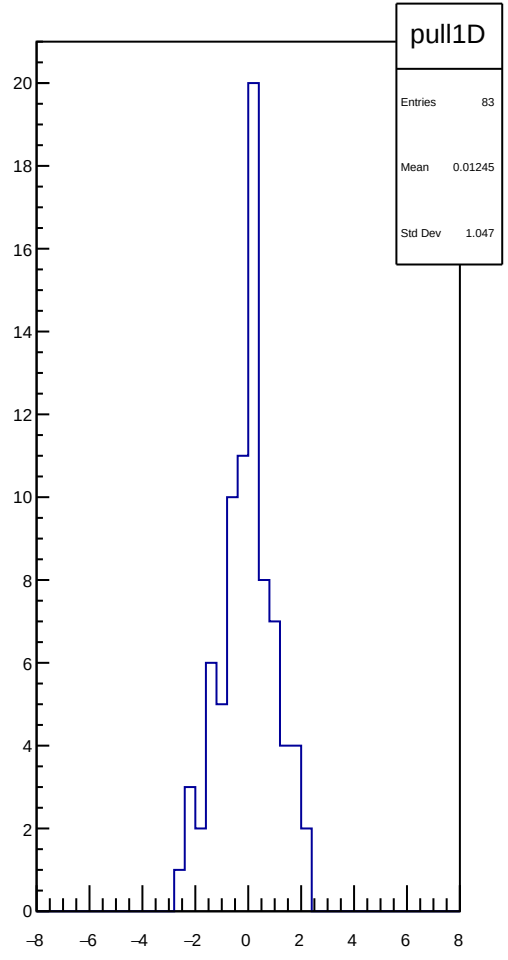

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 6500 / 82
p0 62.71 ± 0.0495
72
70
68
66
64
62
60
58
56
54

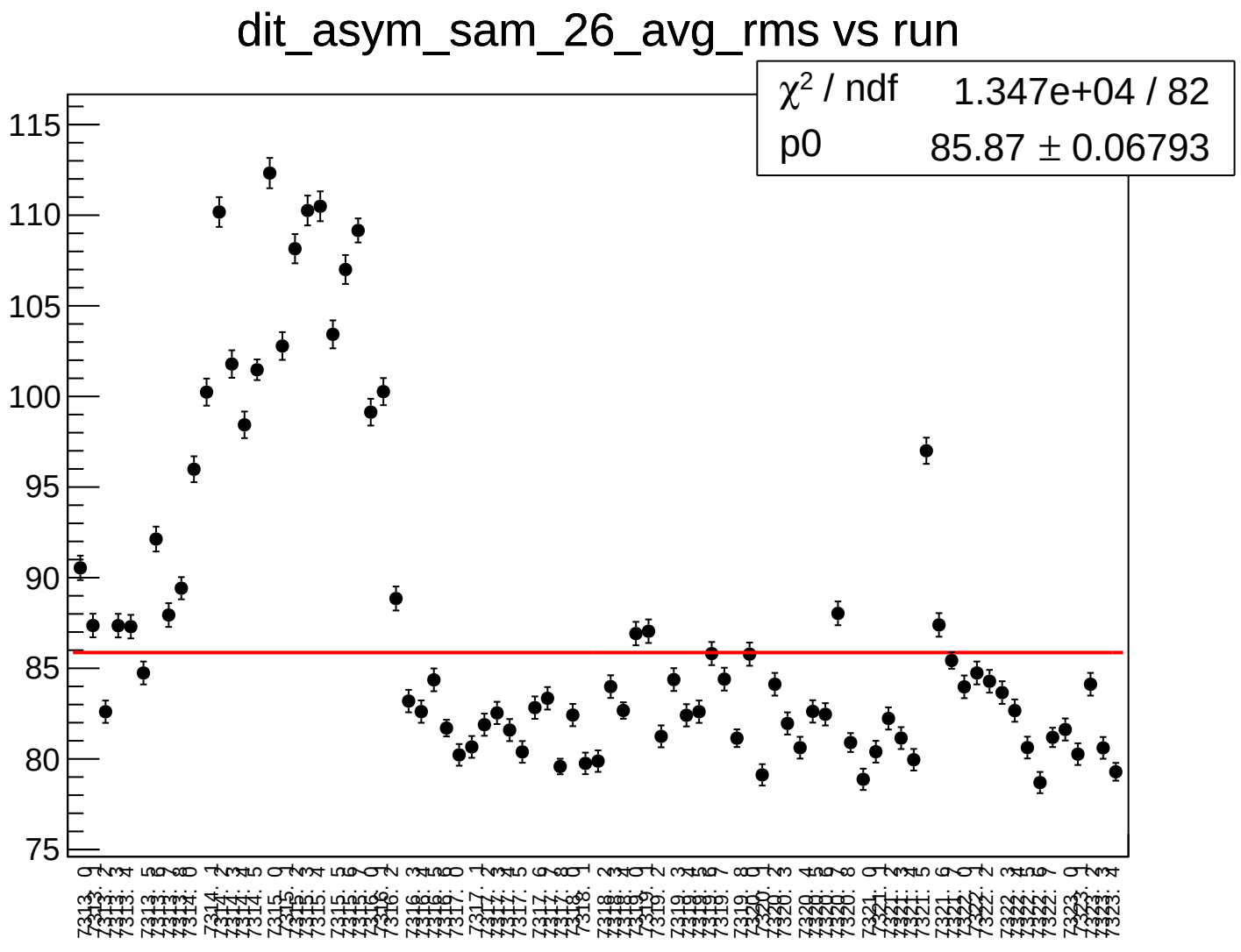

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.43 / 82
p0 −309.1± 418.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −259.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

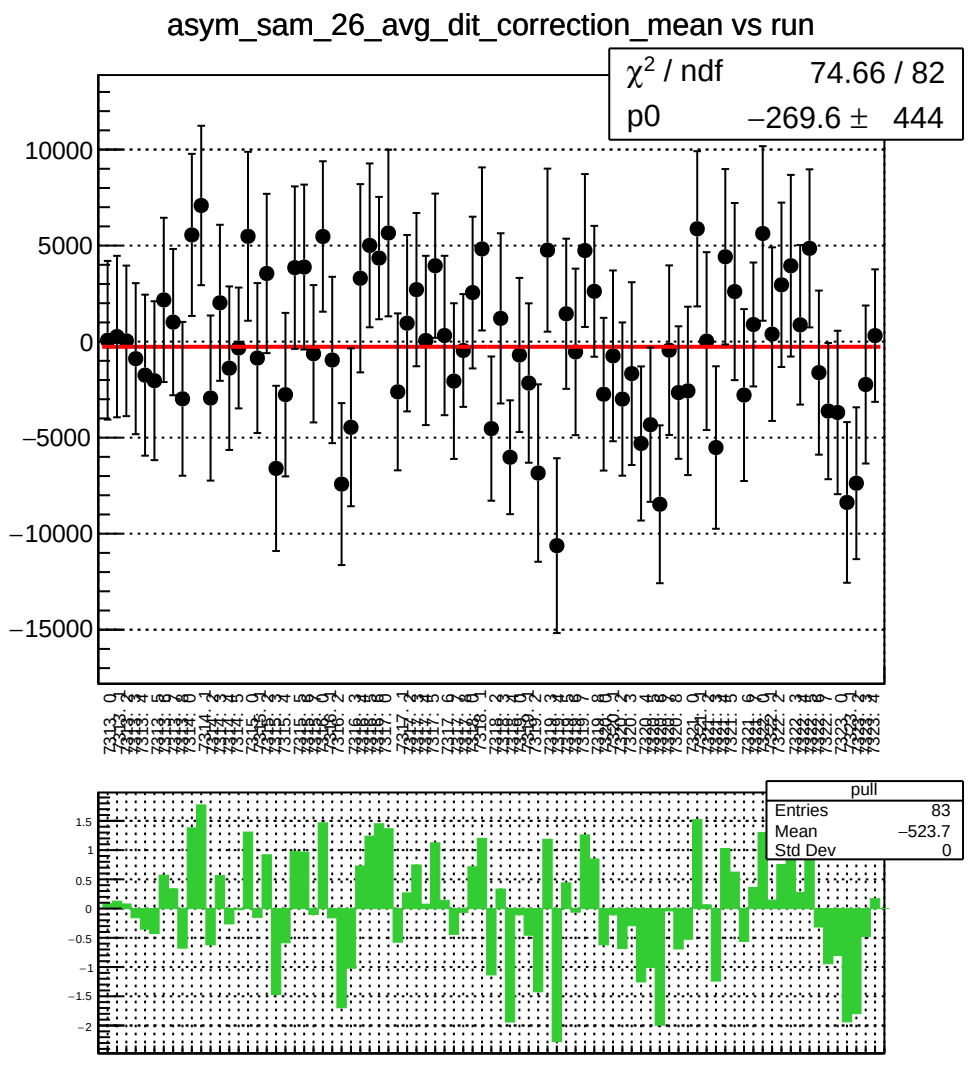

pull1D
Entries 83
Mean 0.01201
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

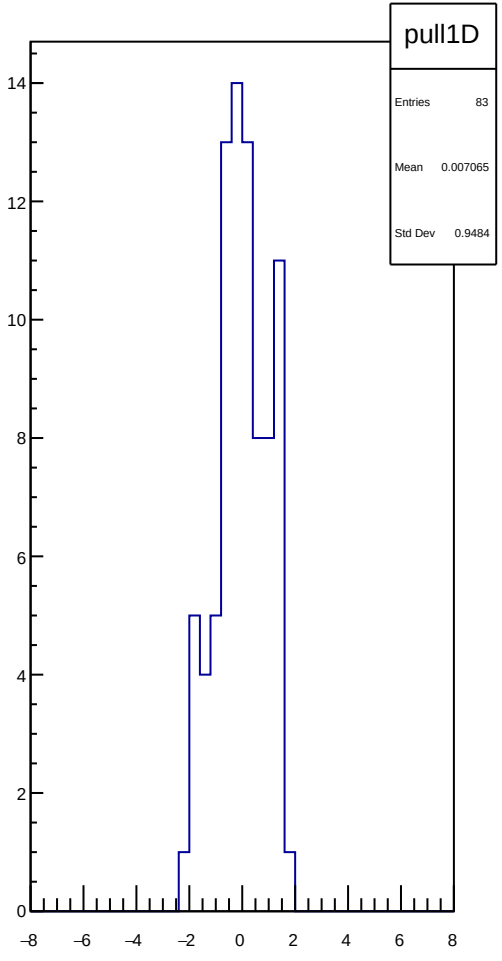

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 82
p0 374.3 ± 0.2958
460
440
420
400
380
360
340
320

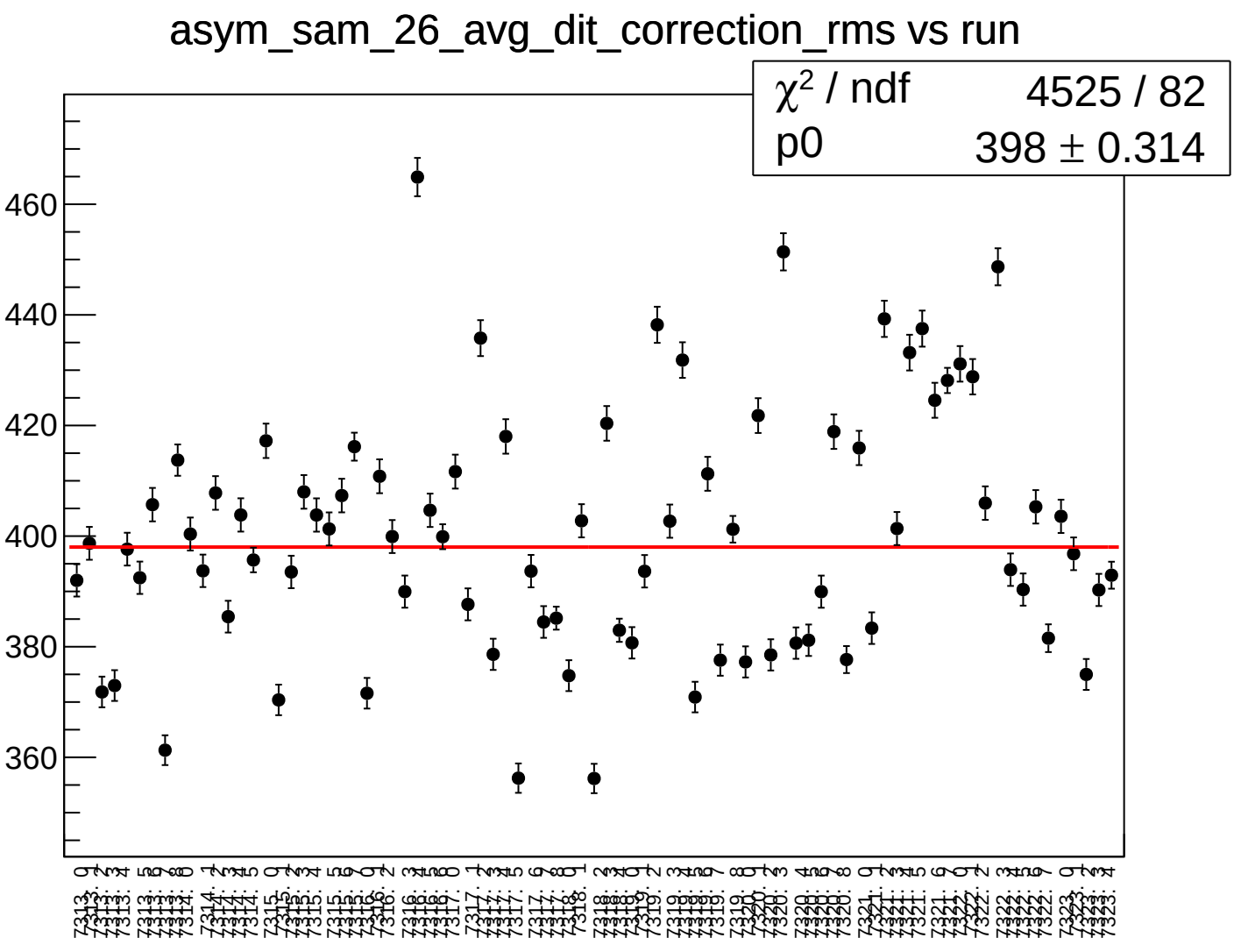

dit_asym_sam_26_avg_mean vs run
χ² / ndf 91.02 / 82
p0 −137.7 ± 96.06
pull
Entries 83
Mean −239.5
Std Dev 0

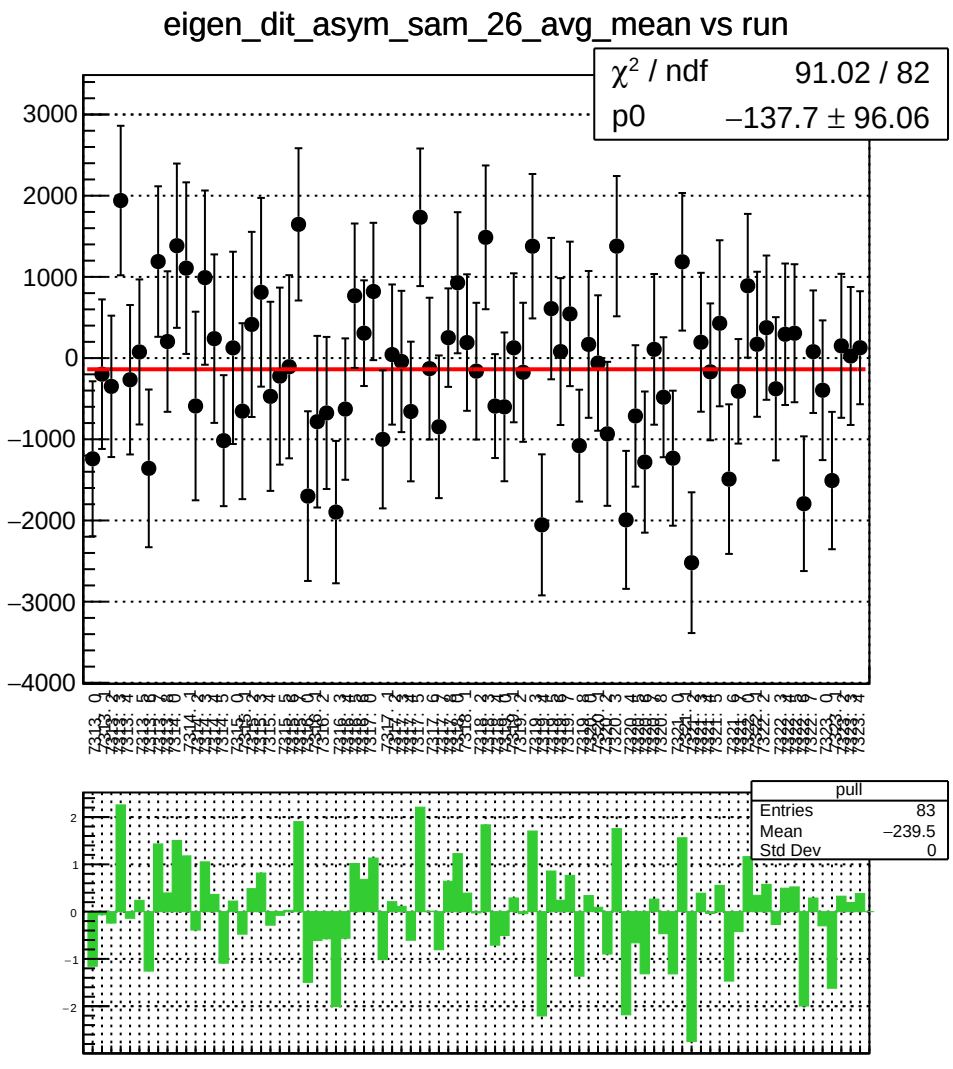

pull1D
Entries 83
Mean 0.01245
Std Dev 1.047

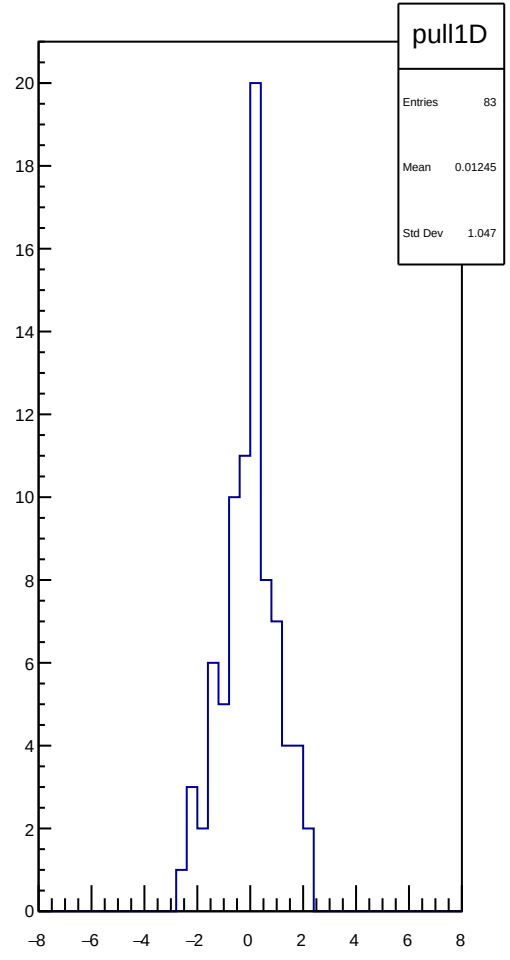

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.347e+04 / 82
p0 85.87 ± 0.06793
115
110
105
100
95
90
85
80
75

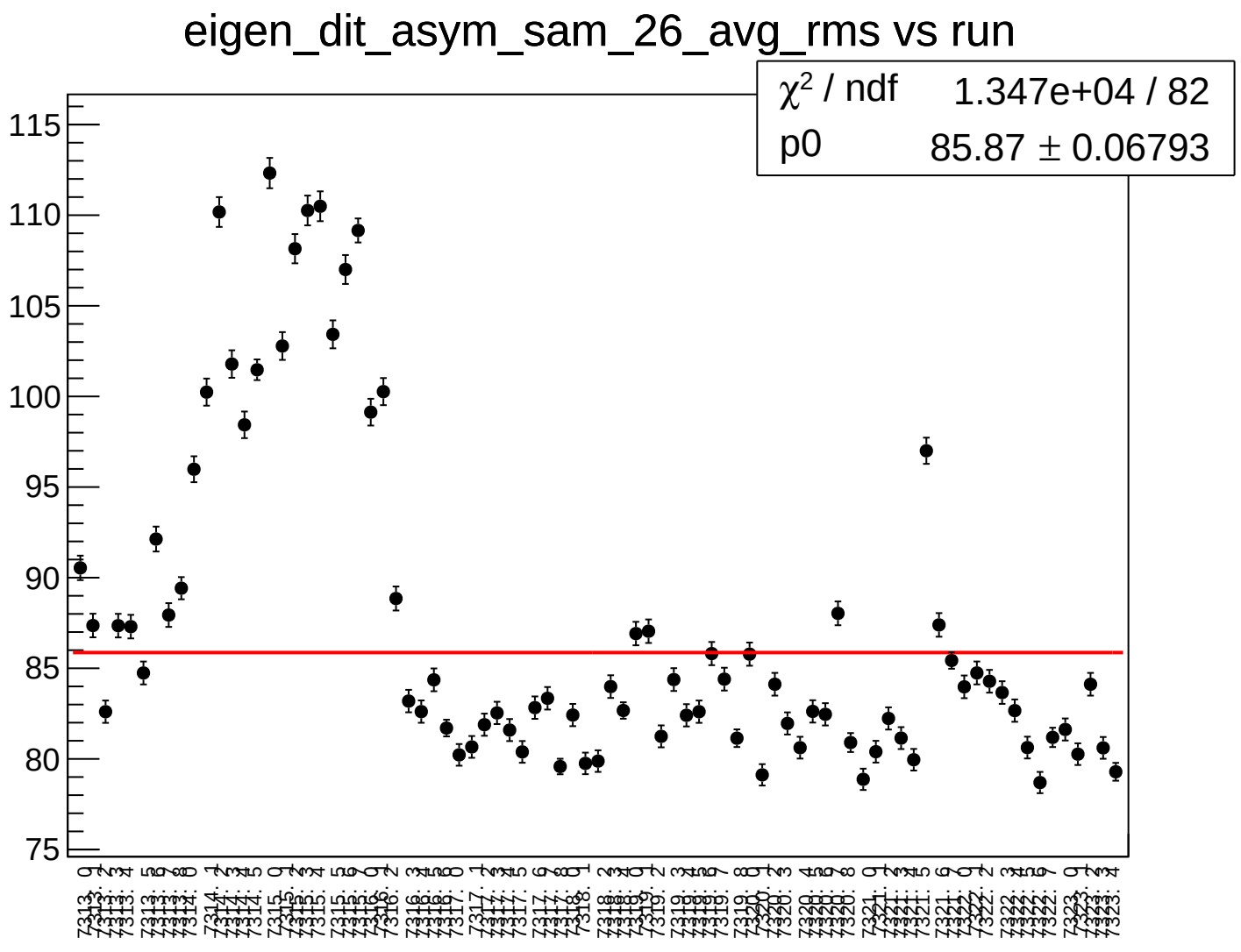

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 74.66 / 82
p0 −269.6 ± 444
pull
Entries 83
Mean −523.7
Std Dev 0

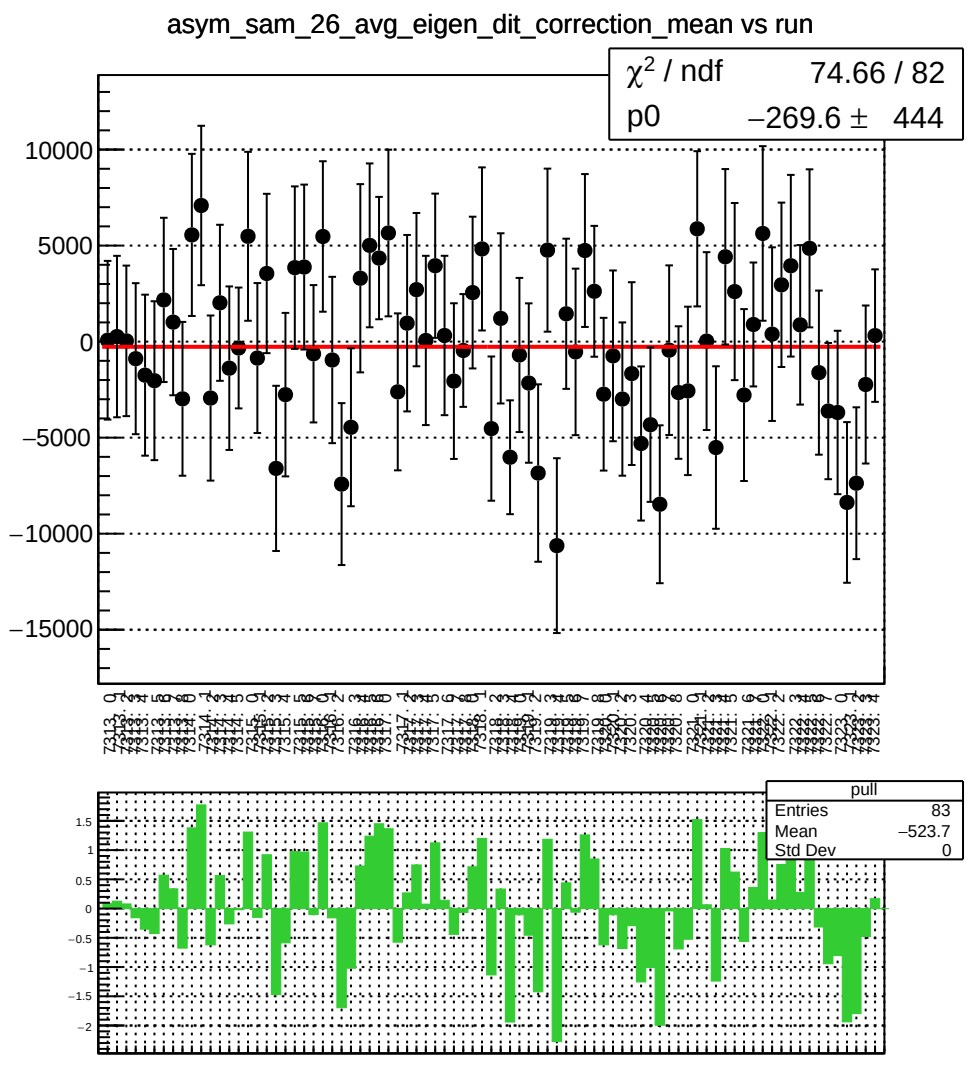

pull1D
Entries 83
Mean 0.007065
Std Dev 0.9484

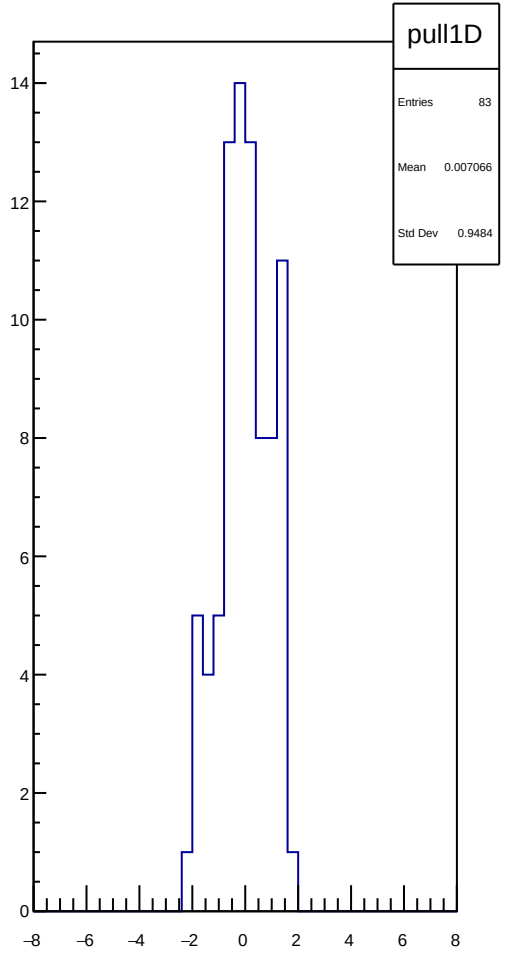

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4525 / 82
p0 398 ± 0.314
460
440
420
400
380
360

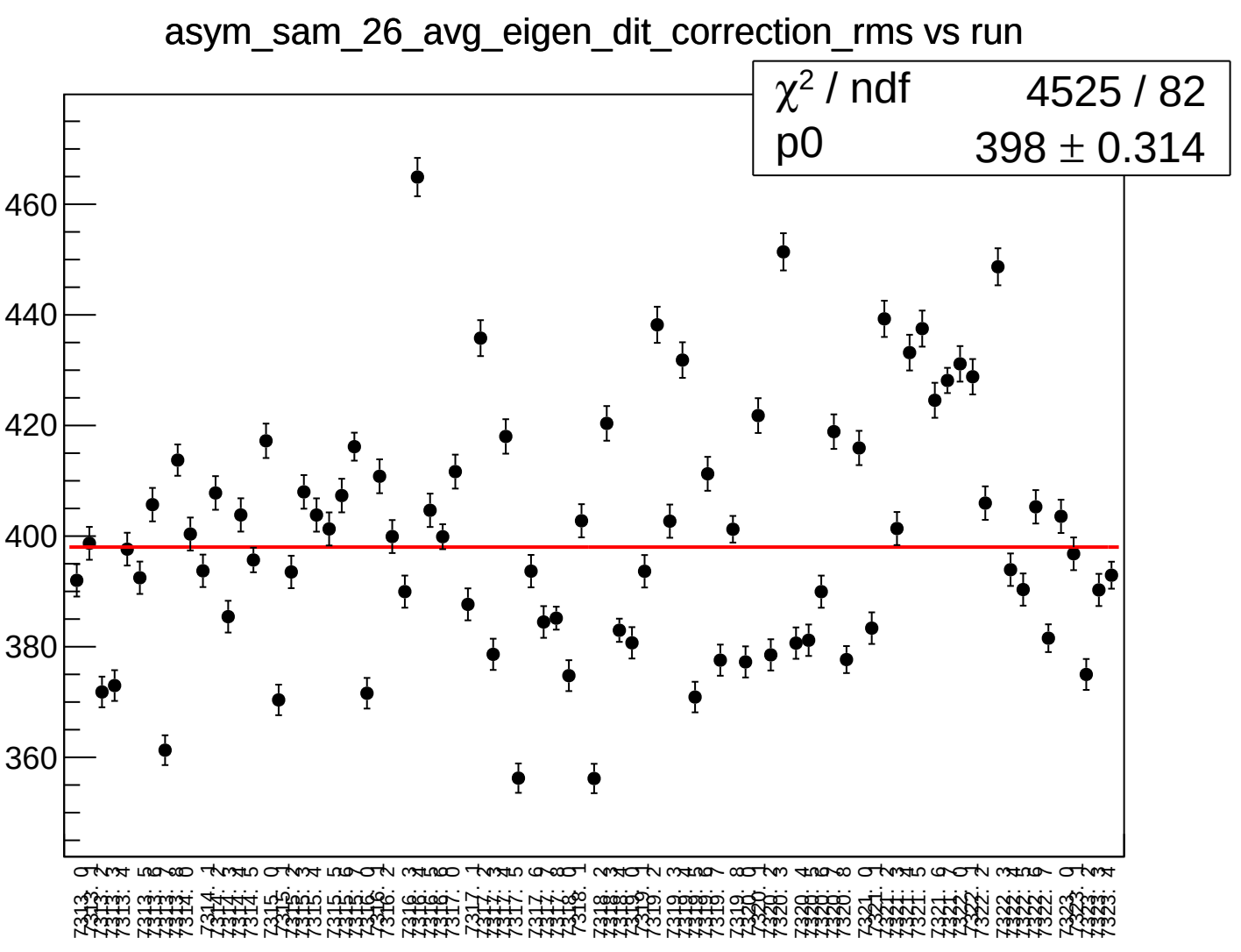

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 91.02 / 82
p0 −137.7 ± 96.06
pull
Entries 83
Mean −239.5
Std Dev 0

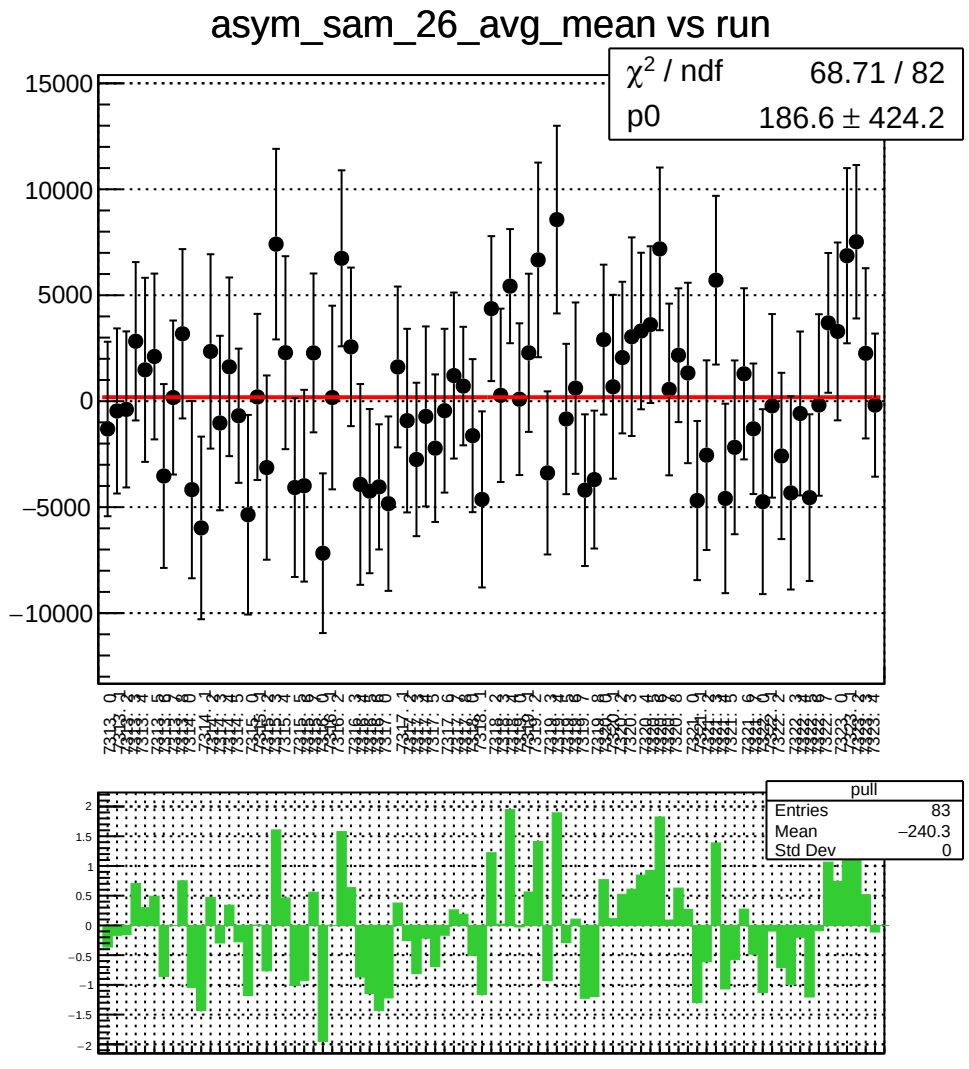

pull1D
Entries 83
Mean 0.01245
Std Dev 1.047

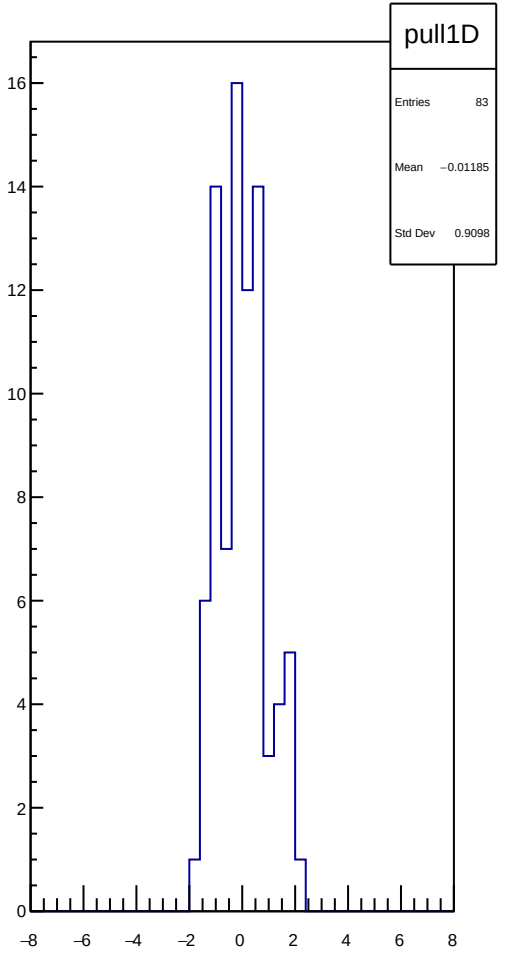

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.347e+04 / 82
p0 85.87 ± 0.06793
115
110
105
100
95
90
85
80
75

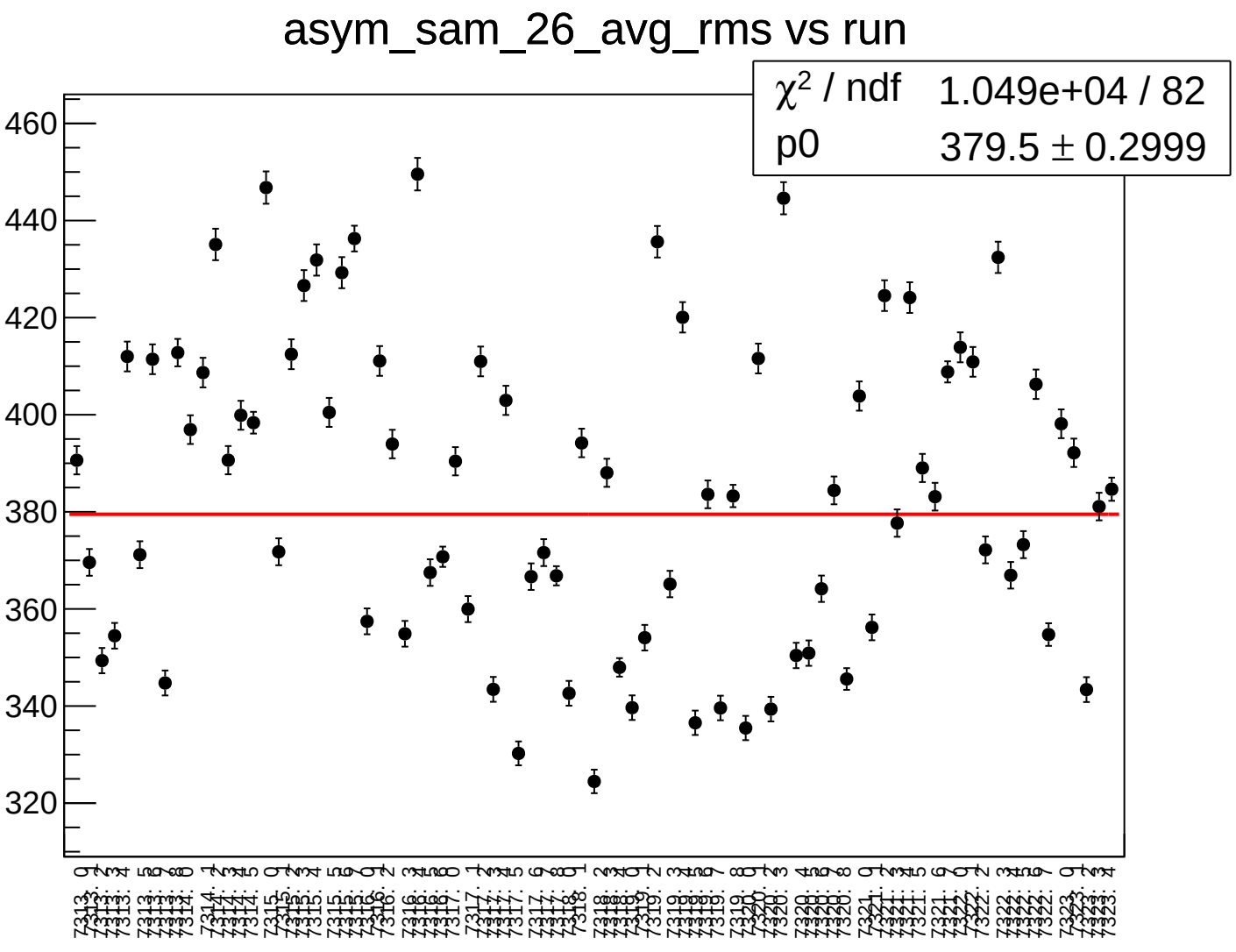

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.66 / 82
p0 −269.6 ± 444
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −523.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

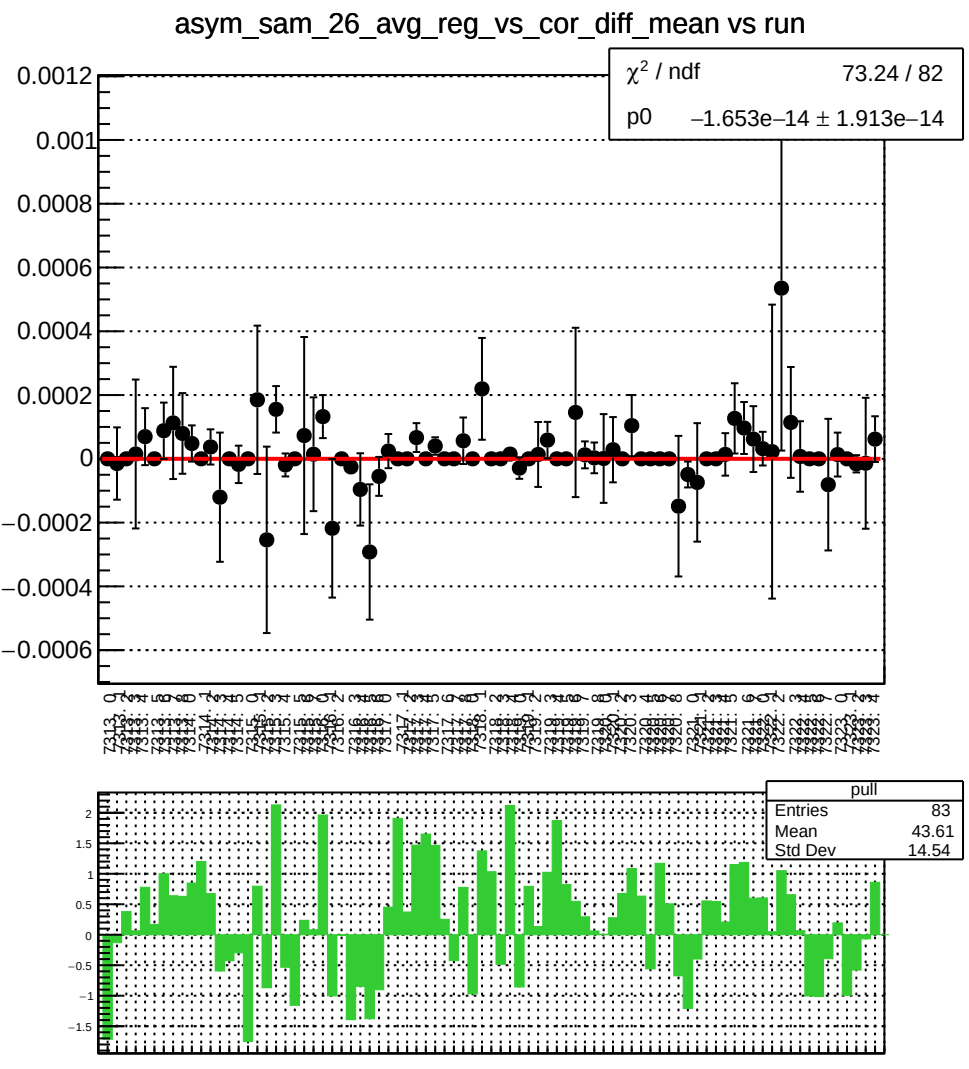

pull1D
Entries 83
Mean 0.007066
Std Dev 0.9484
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

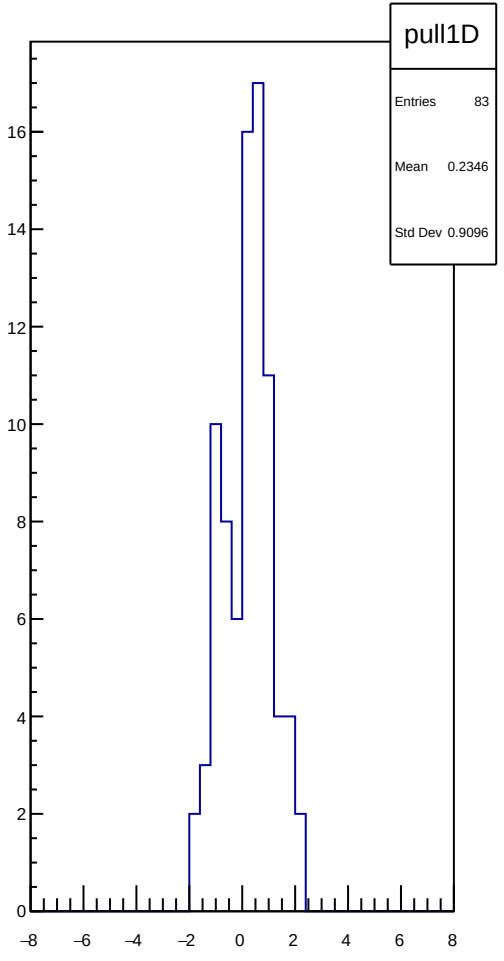

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4525 / 82
p0 398 ± 0.314
460
440
420
400
380
360

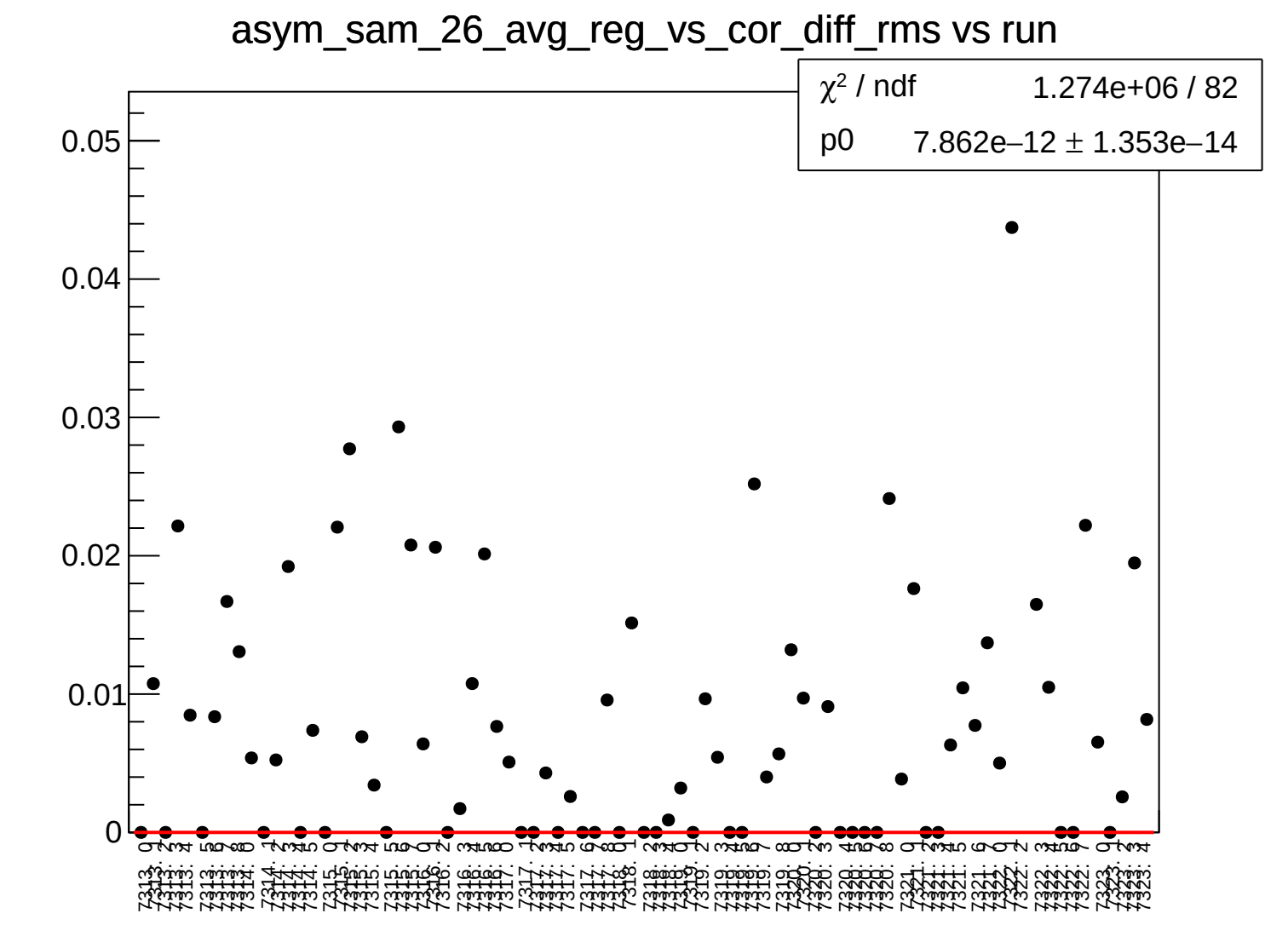

asym_sam_26_avg_mean vs run
χ² / ndf 68.71 / 82
p0 186.6 ± 424.2
pull
Entries 83
Mean −240.3
Std Dev 0

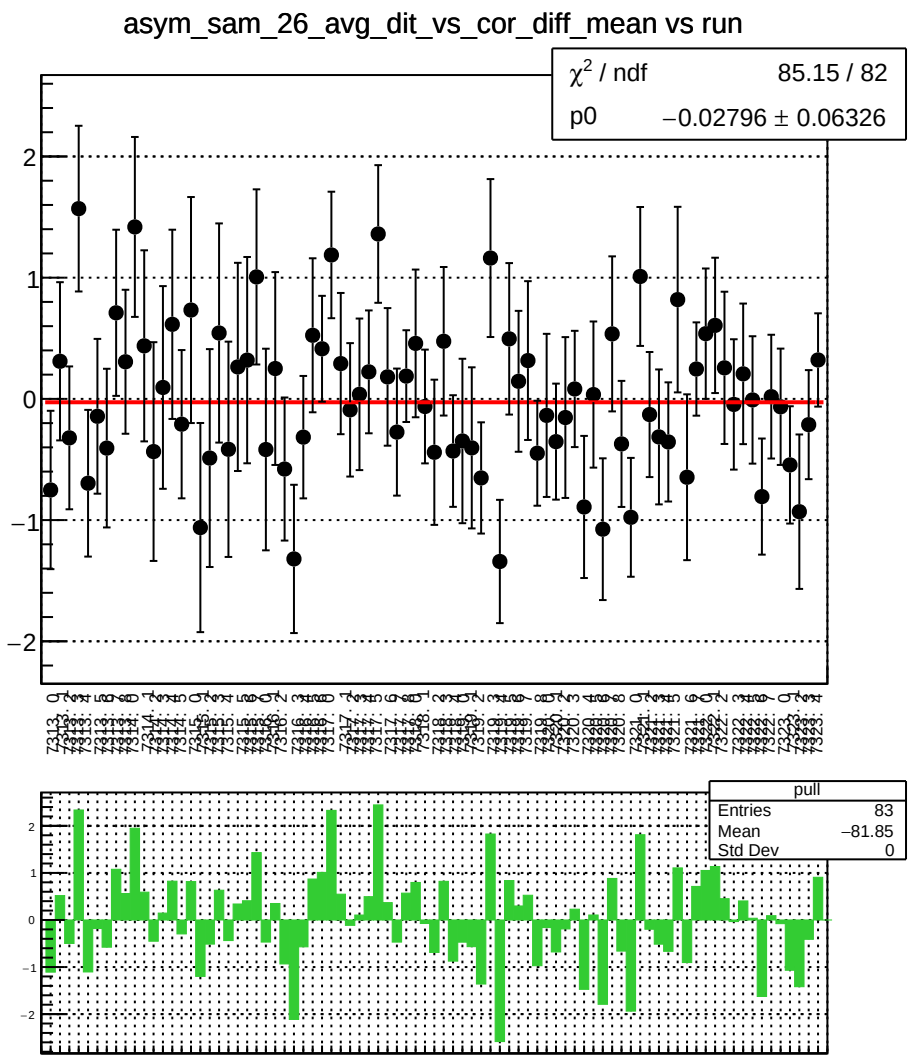

pull1D
Entries 83
Mean −0.01185
Std Dev 0.9098

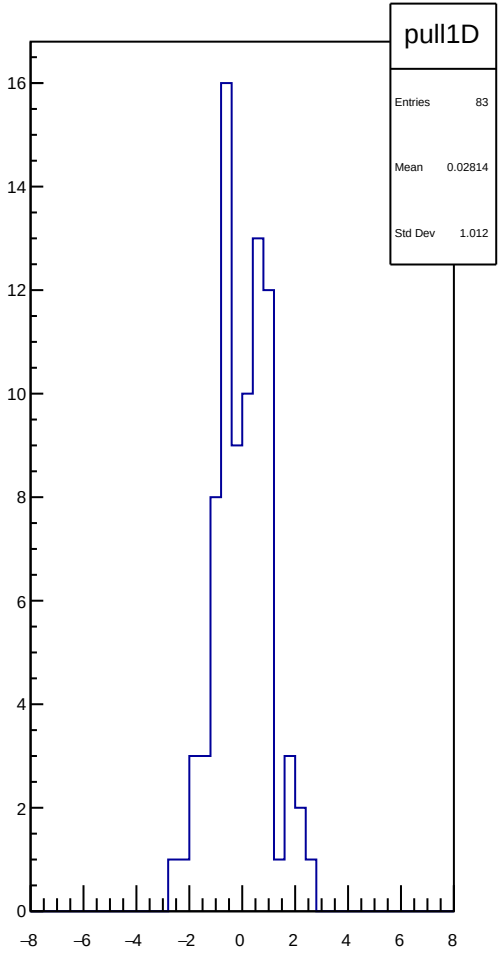

asym_sam_26_avg_rms vs run
χ² / ndf 1.049e+04 / 82
p0 379.5 ± 0.2999
460
440
420
400
380
360
340
320

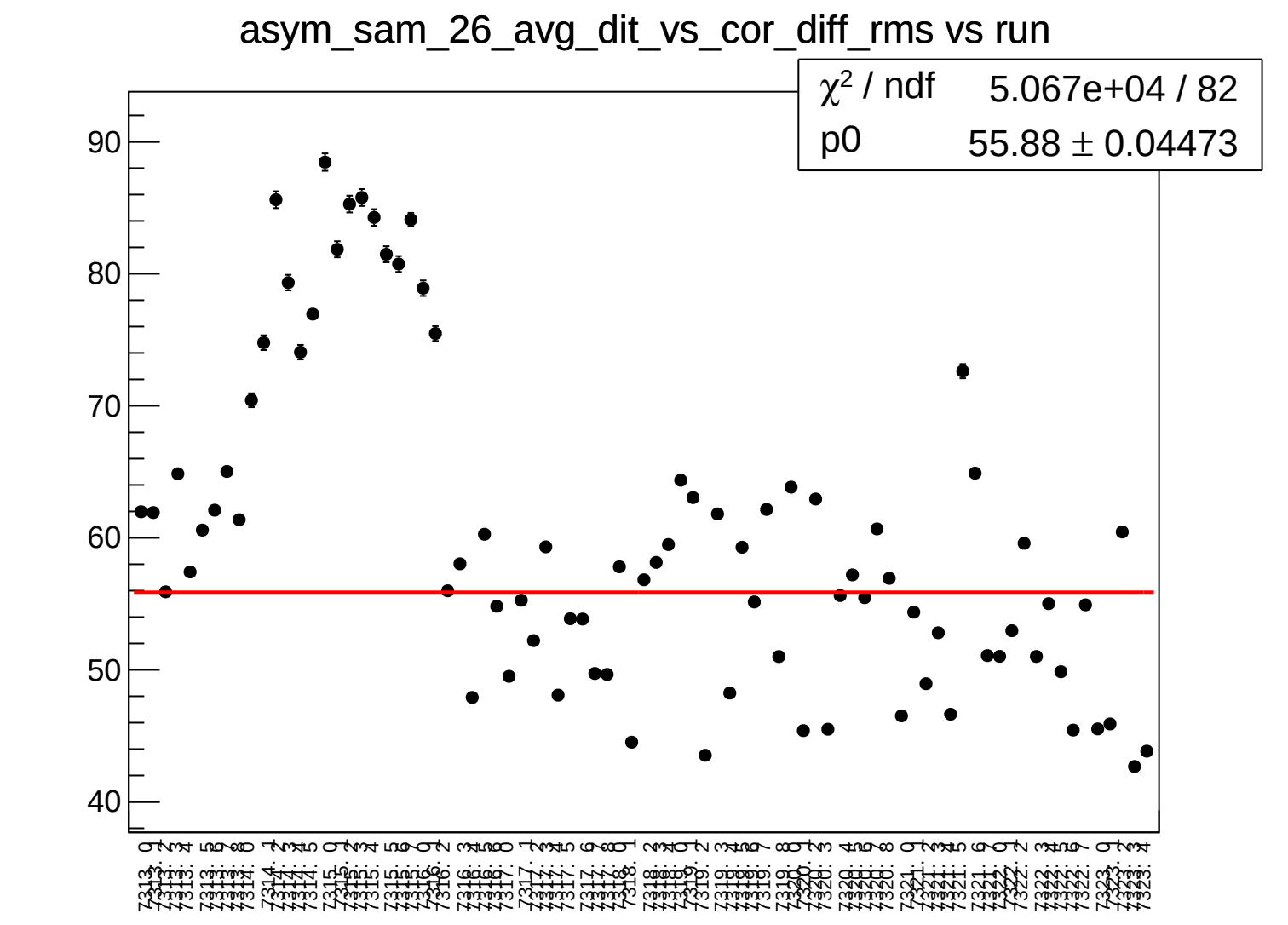

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.24 / 82
p0 −1.653e−14 ± 1.913e−14
pull
Entries 83
Mean 43.61
Std Dev 14.54

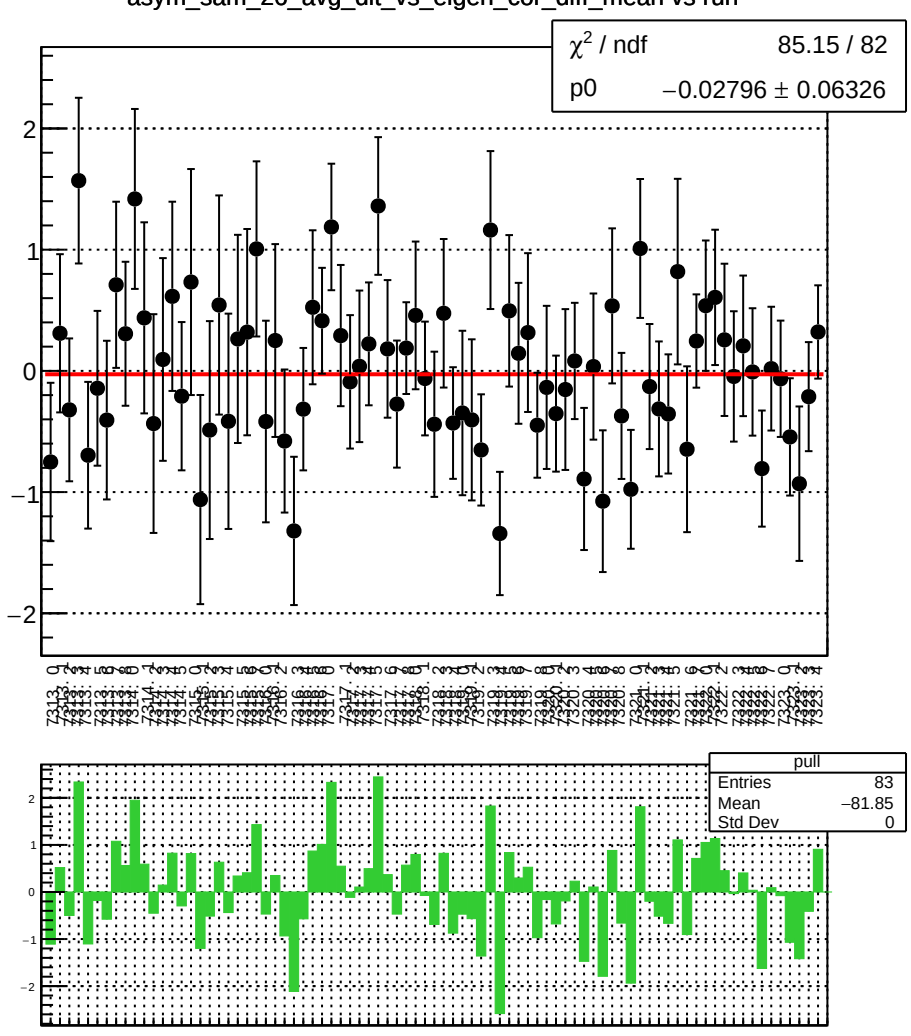

pull1D
Entries 83
Mean 0.2346
Std Dev 0.9096

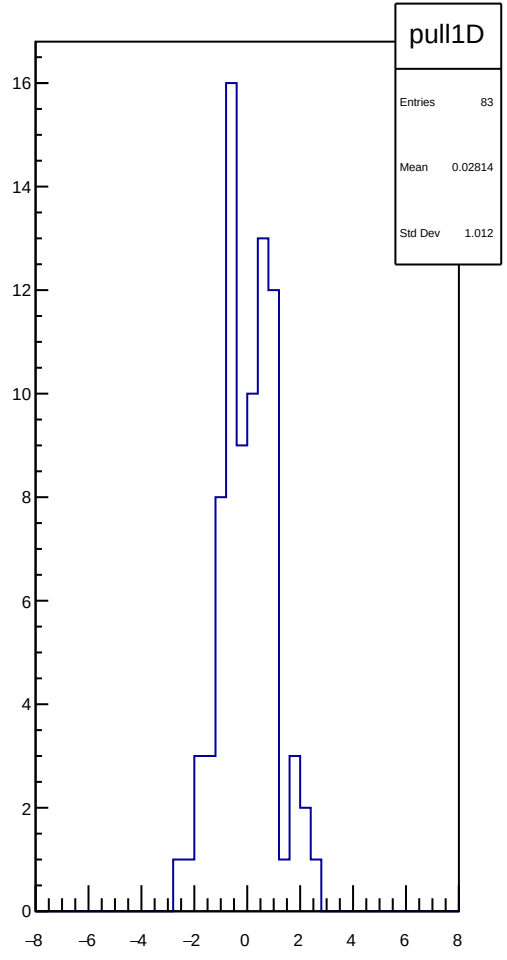

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.274e+06 / 82
p0 7.862e−12 ± 1.353e−14
0.05
0.04
0.03
0.02
0.01
0

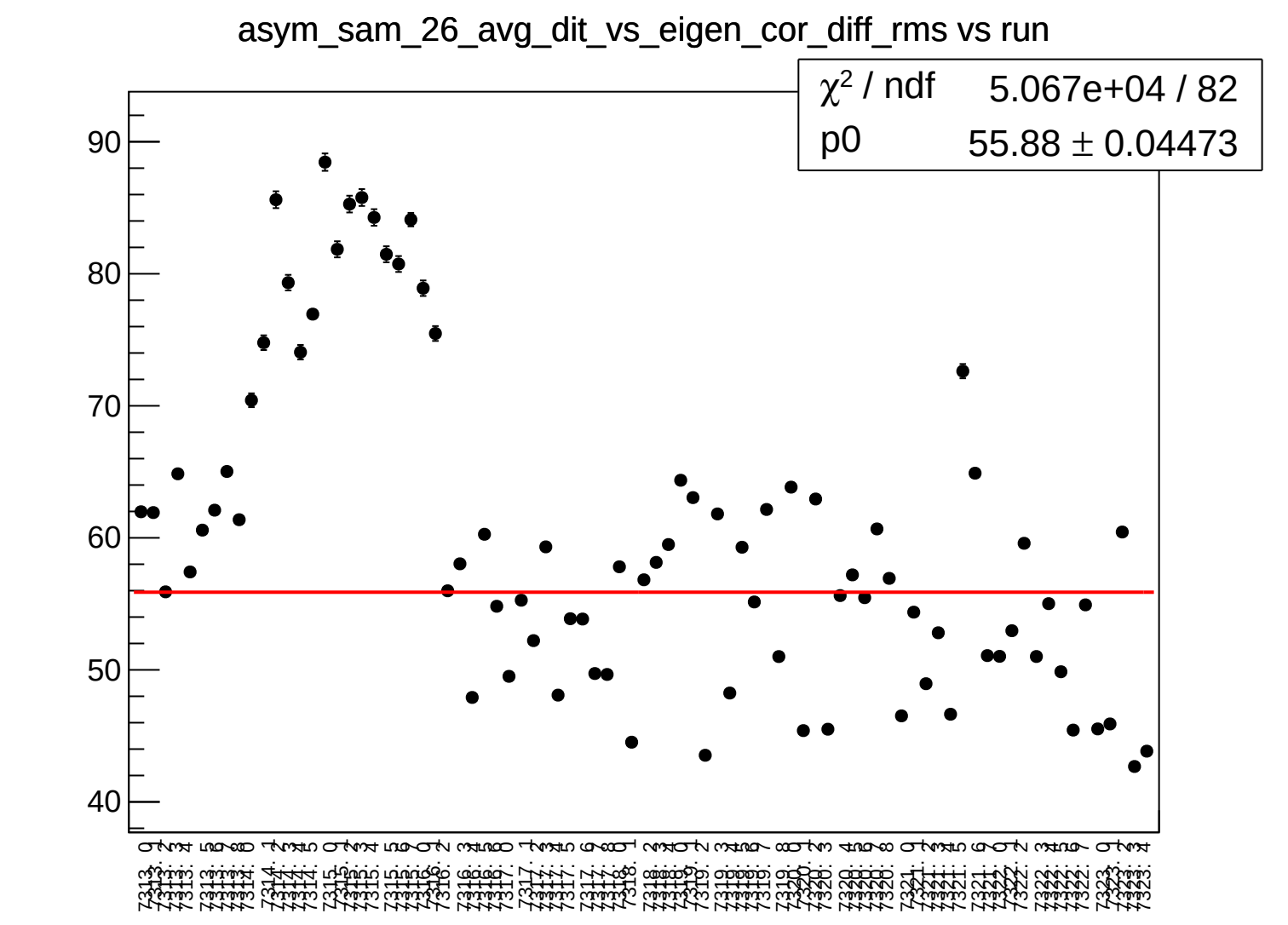

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.15 / 82
p0 −0.02796 ± 0.06326
pull
Entries 83
Mean −81.85
Std Dev 0

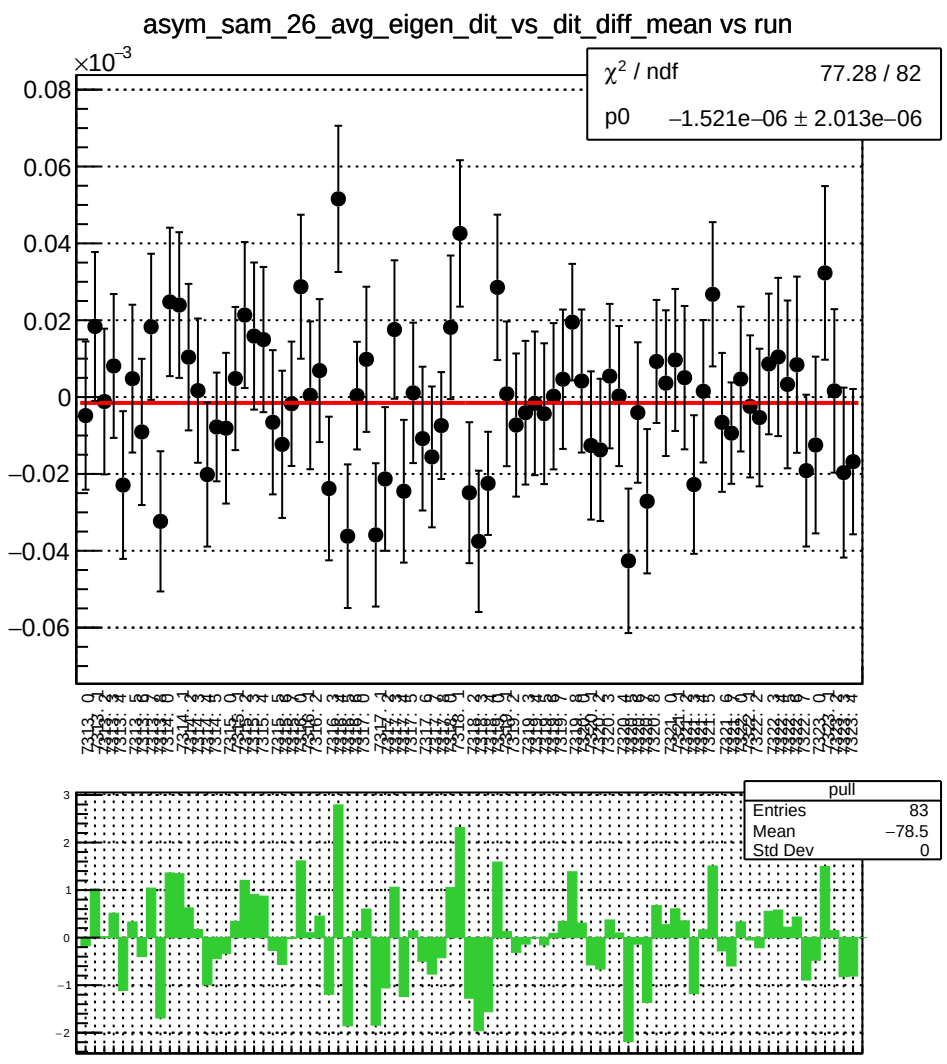

pull1D
Entries 83
Mean 0.02814
Std Dev 1.012

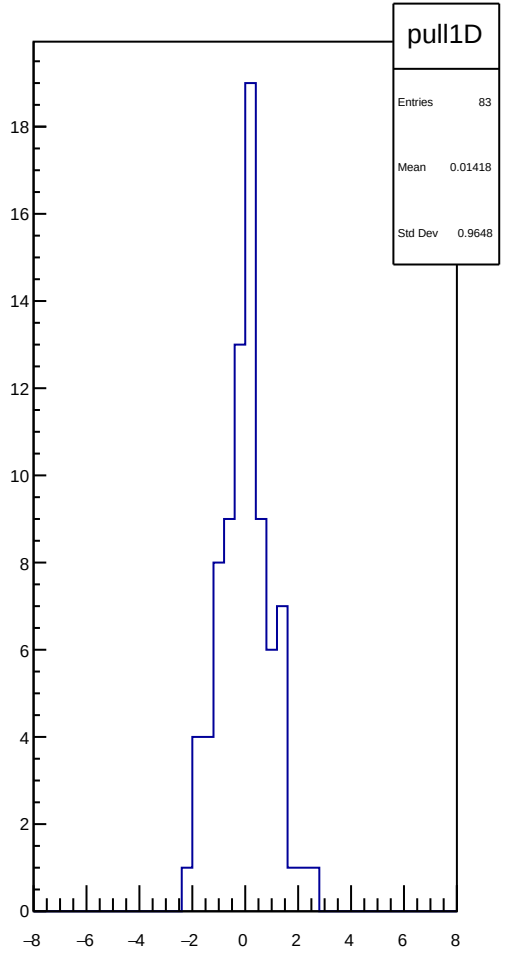

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.067e+04 / 82
p0 55.88 ± 0.04473
90
80
70
60
50
40

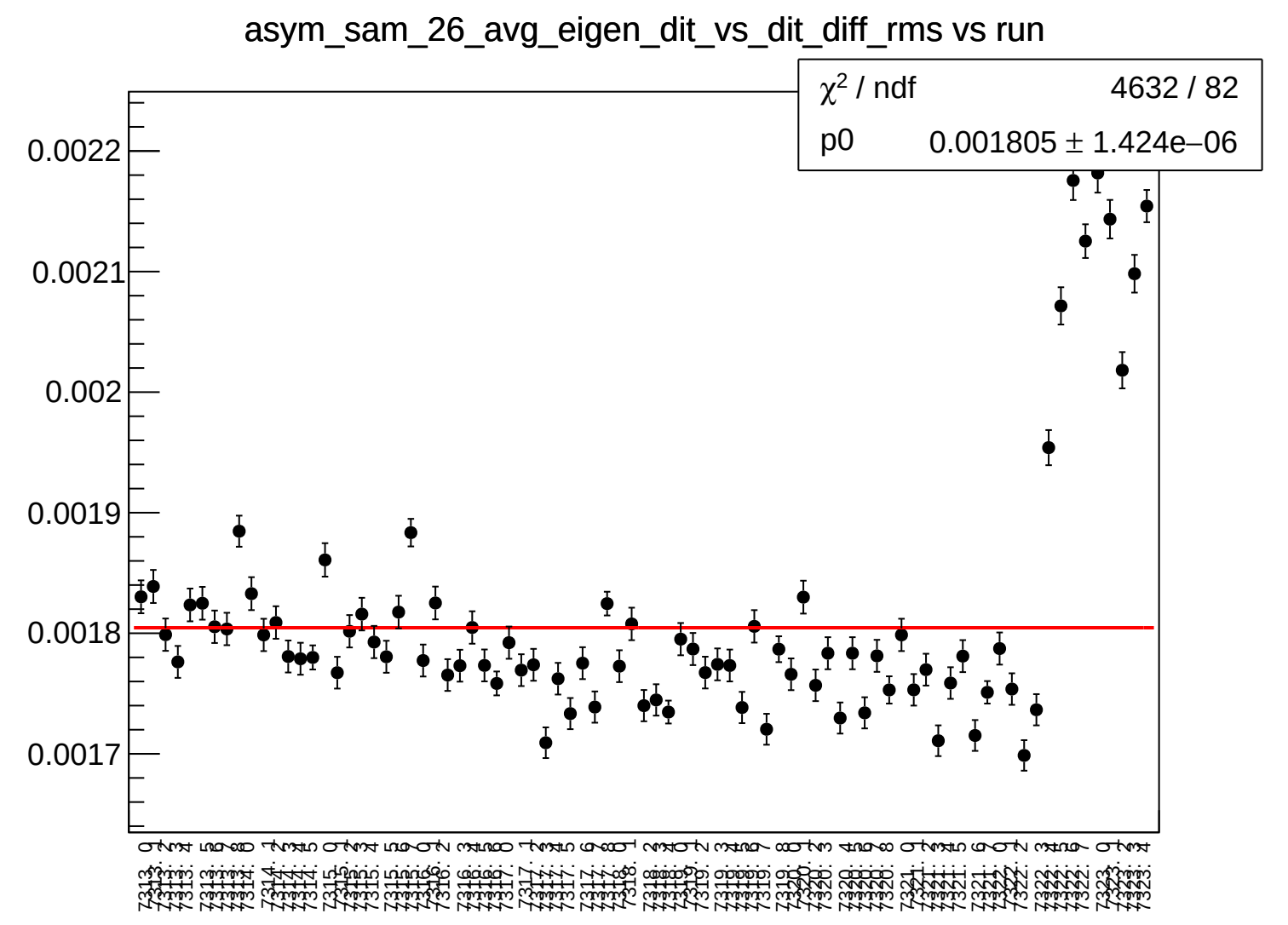

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.15 / 82
p0 −0.02796 ± 0.06326
pull
Entries 83
Mean −81.85
Std Dev 0

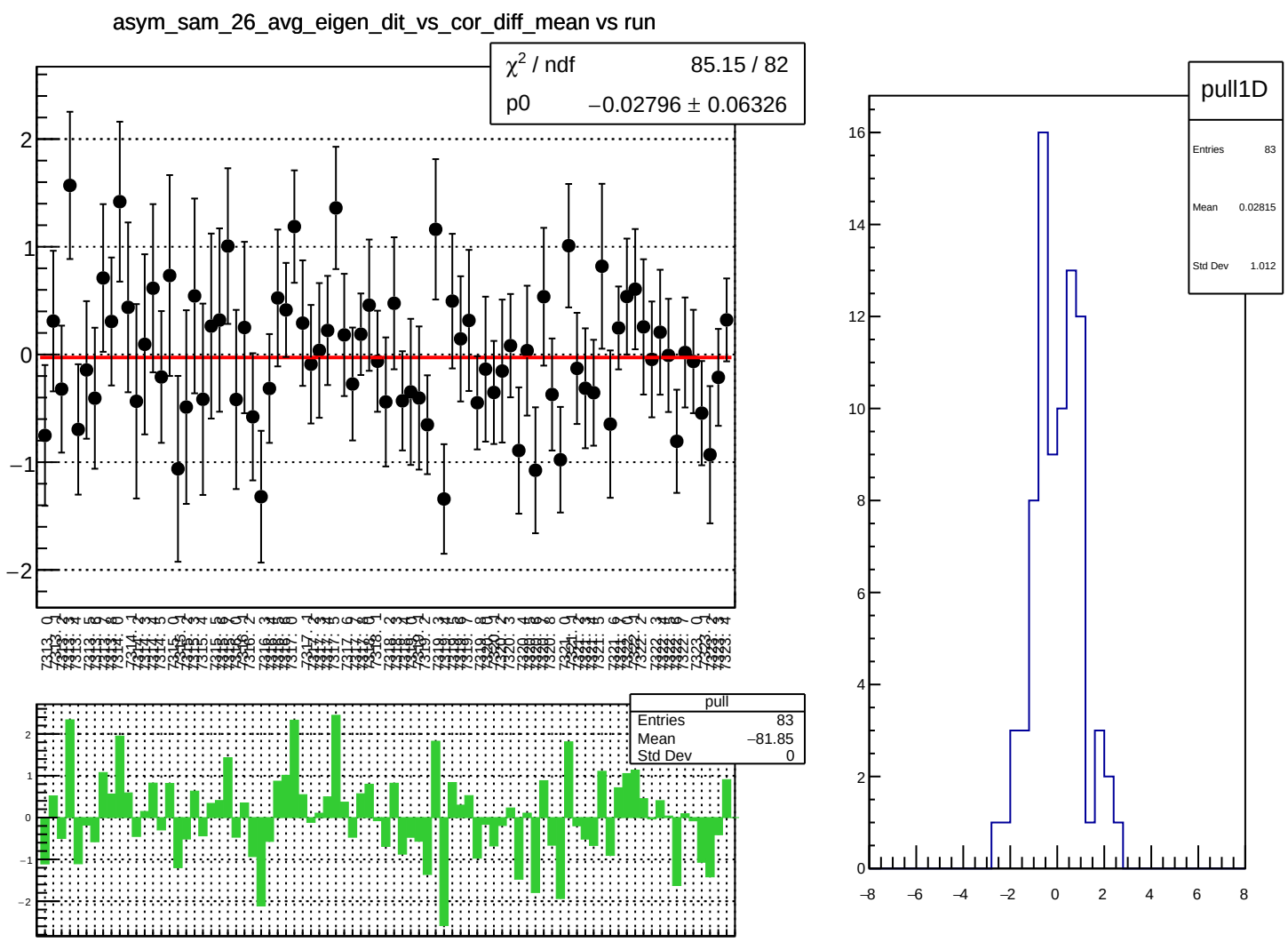

pull1D
Entries 83
Mean 0.02814
Std Dev 1.012

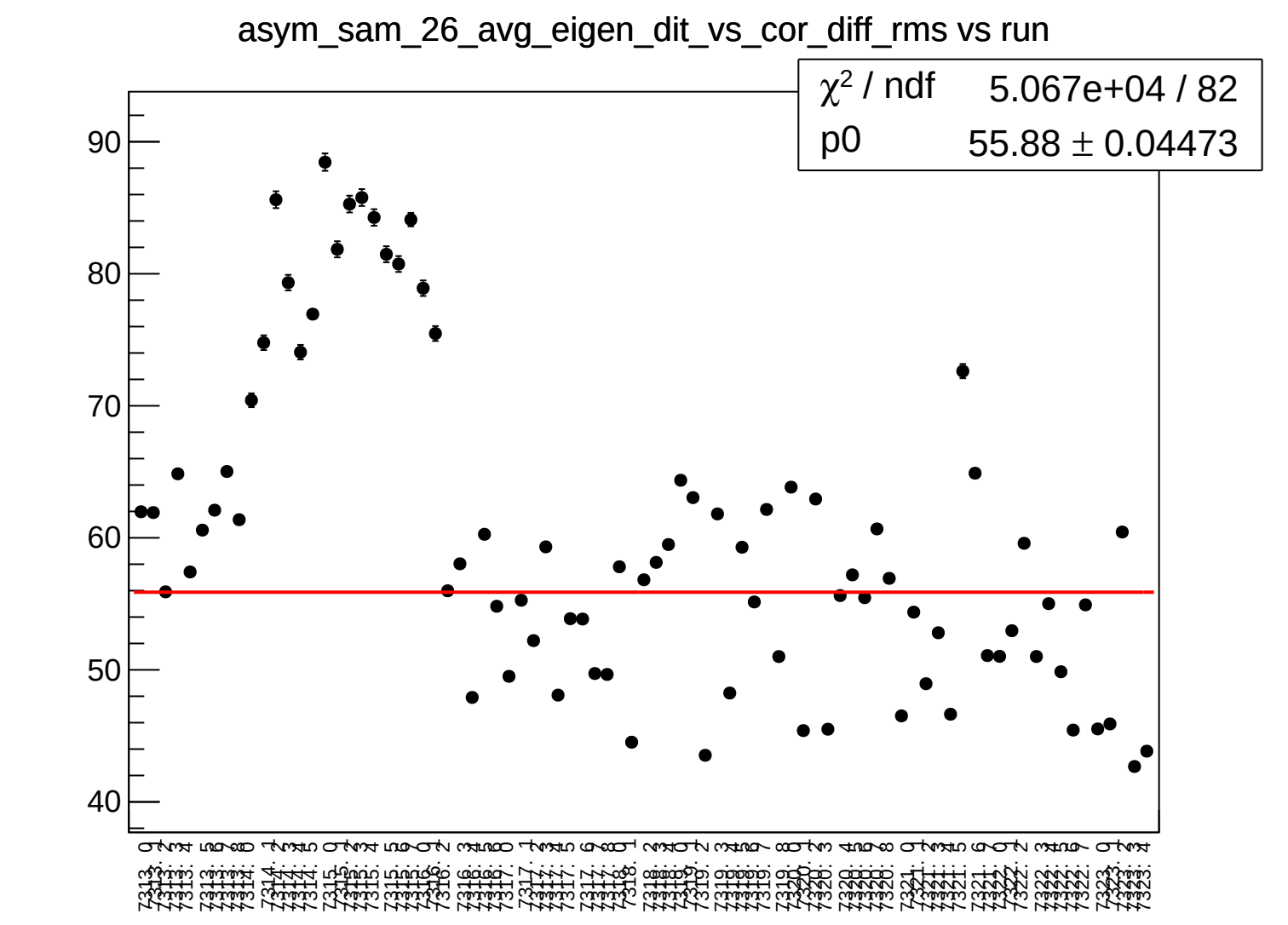

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 82
p0 55.88 ± 0.04473
90
80
70
60
50
40

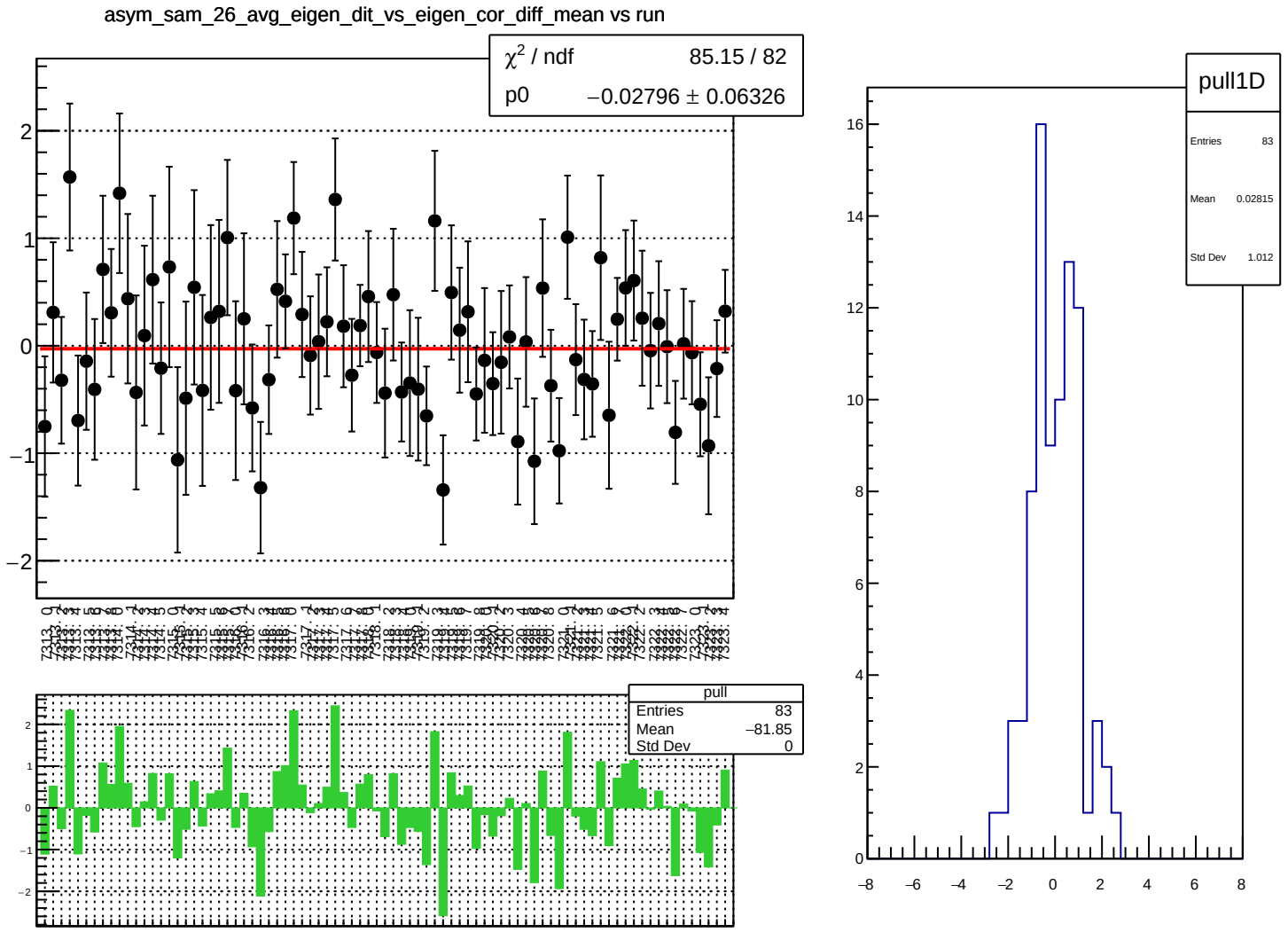

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.28 / 82
p0 −1.521e−06 ± 2.013e−06
pull
Entries 83
Mean −78.5
Std Dev 0

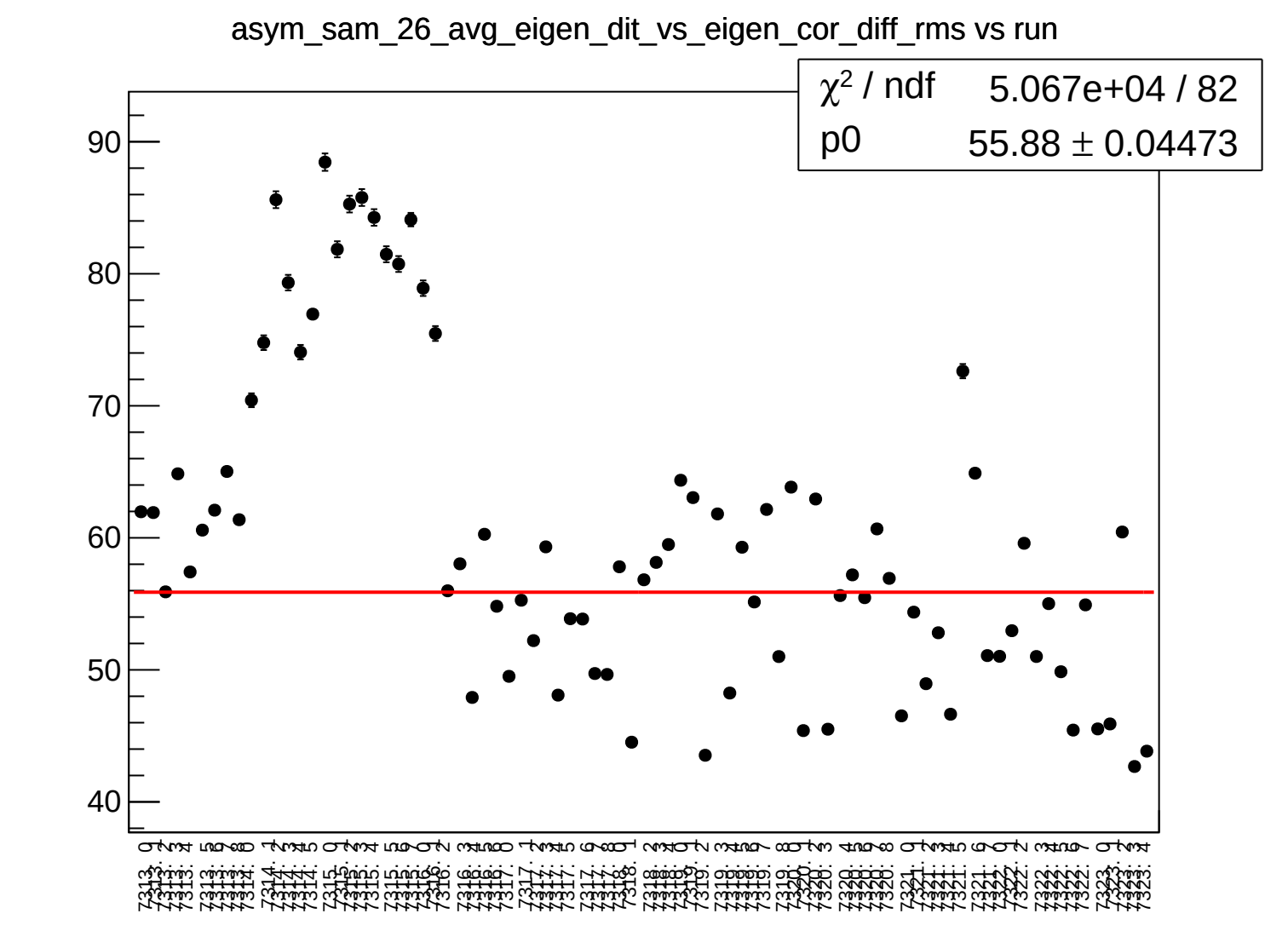

pull1D
Entries 83
Mean 0.01418
Std Dev 0.9648

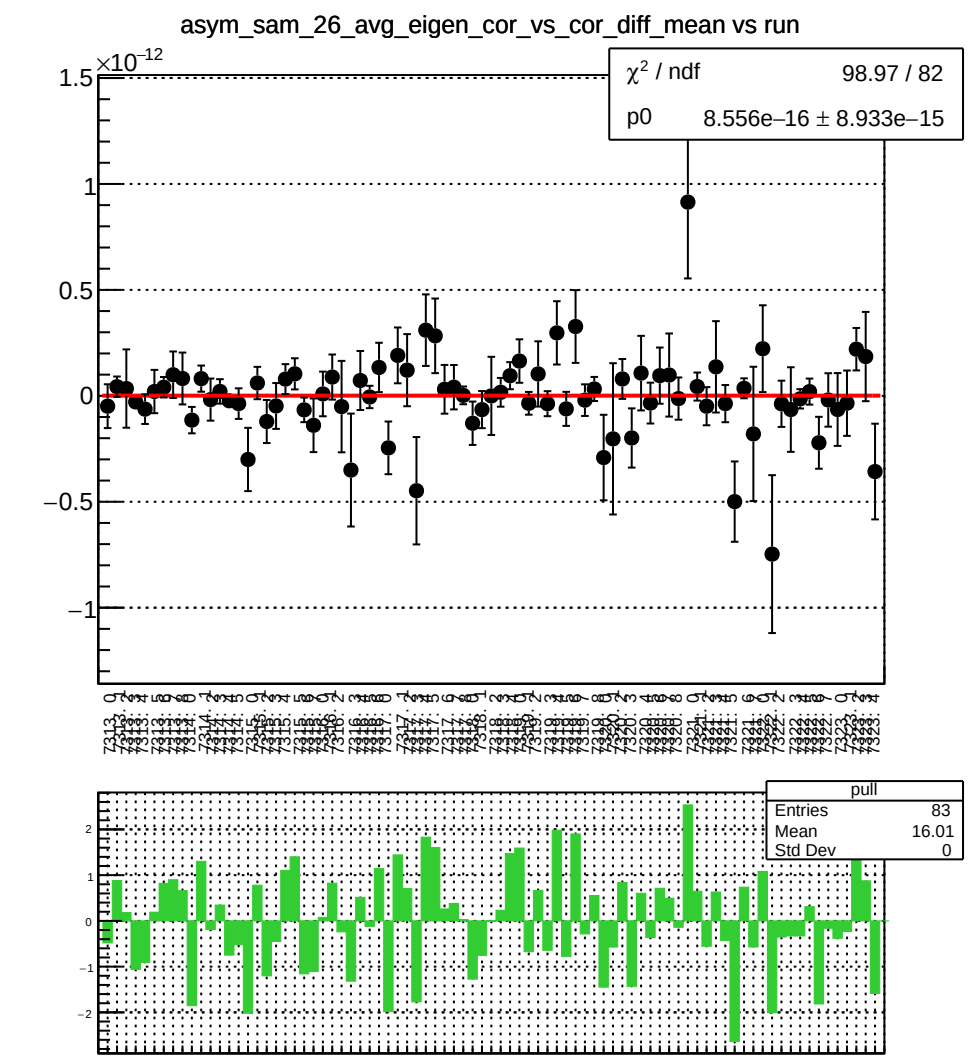

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4632 / 82
p0 0.001805 ± 1.424e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

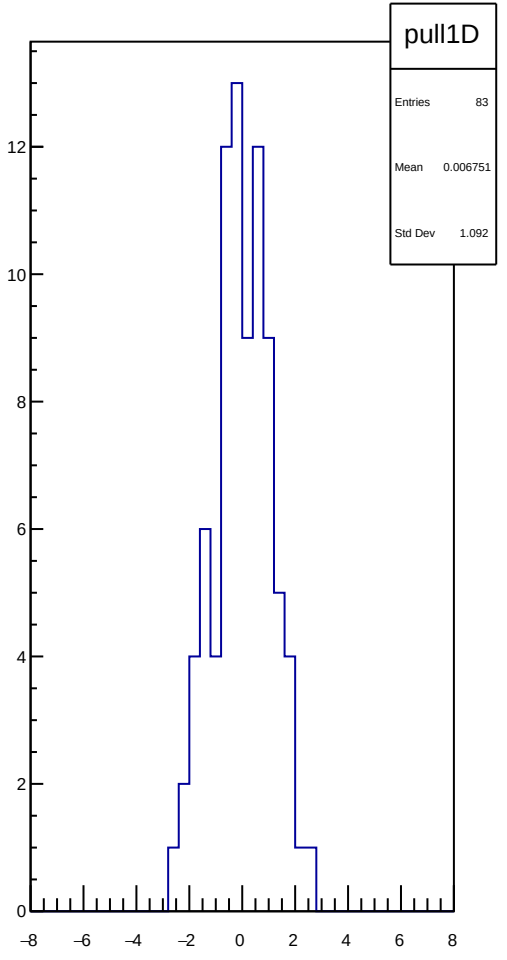

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.15 / 82
p0 −0.02796 ± 0.06326
pull
Entries 83
Mean −81.85
Std Dev 0
pull1D
Entries 83
Mean 0.02815
Std Dev 1.012

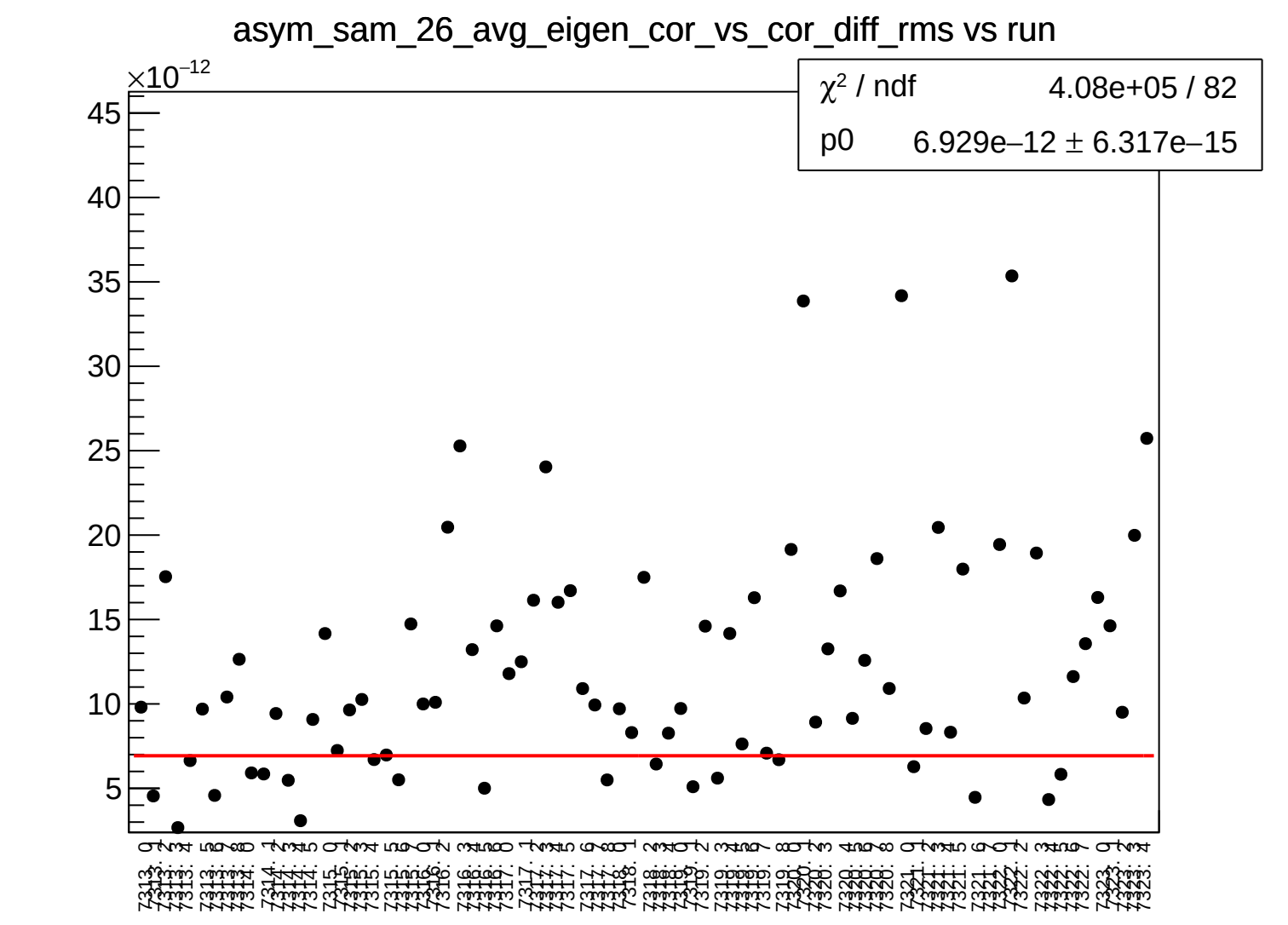

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 82
p0 55.88 ± 0.04473
90
80
70
60
50
40

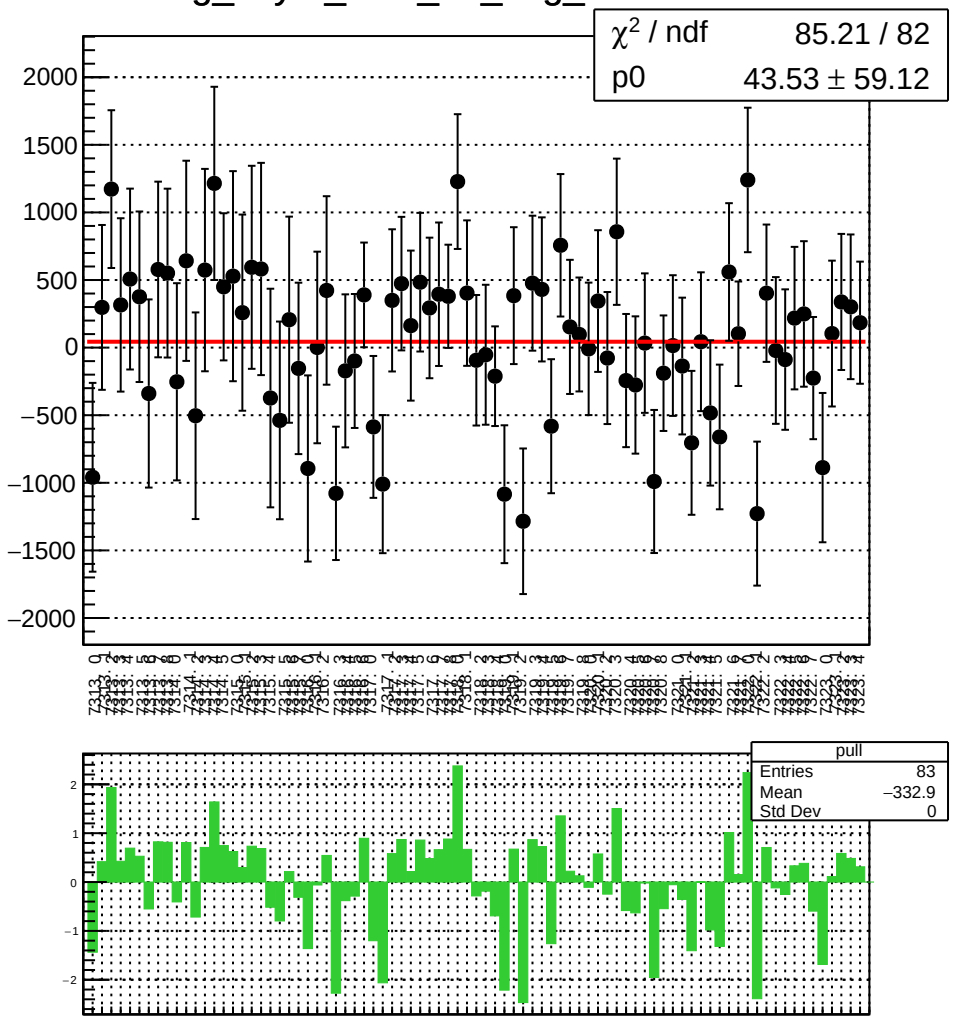

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.15 / 82
p0 −0.02796 ± 0.06326
pull
Entries 83
Mean −81.85
Std Dev 0
pull1D
Entries 83
Mean 0.02815
Std Dev 1.012

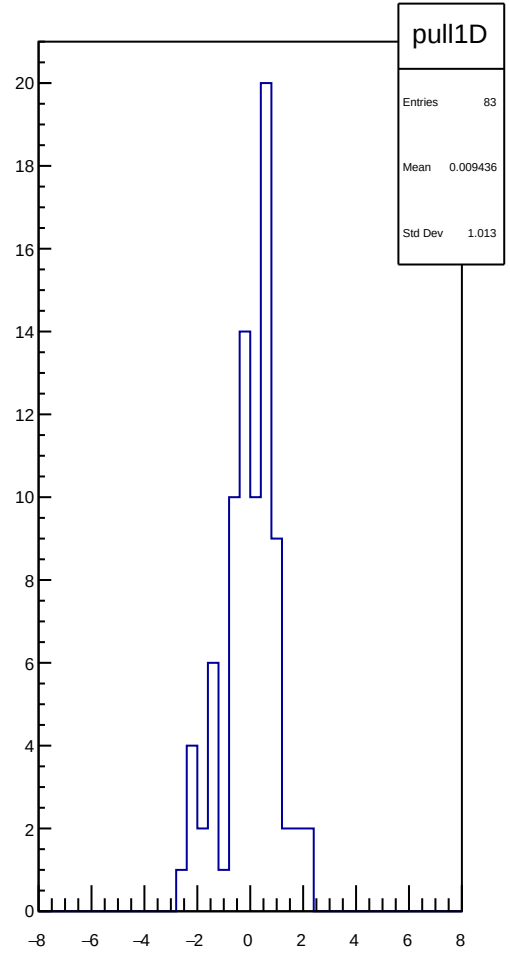

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 82
p0 55.88 ± 0.04473
90
80
70
60
50
40

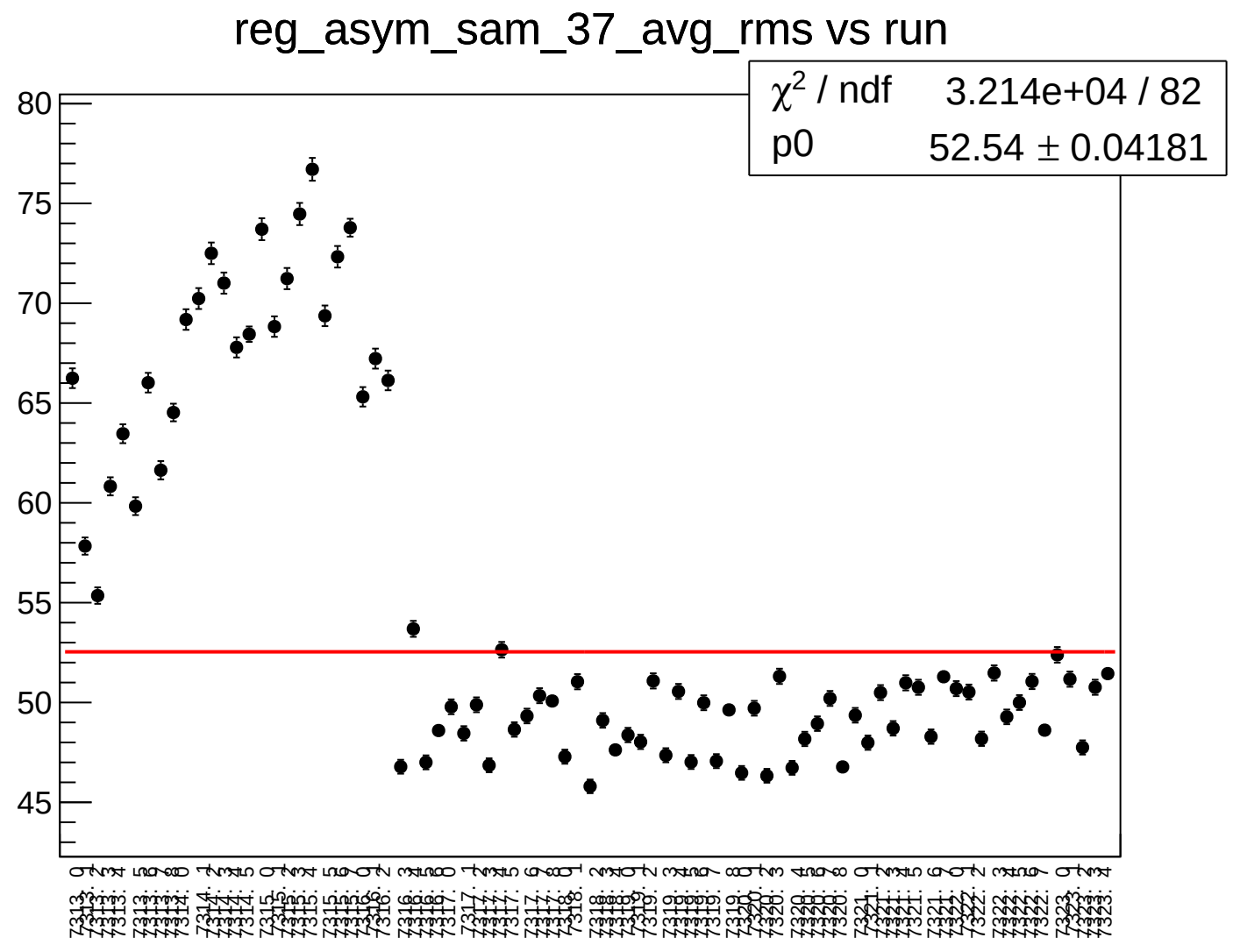

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.97 / 82
p0 8.556e−16 ± 8.933e−15
pull
Entries 83
Mean 16.01
Std Dev 0

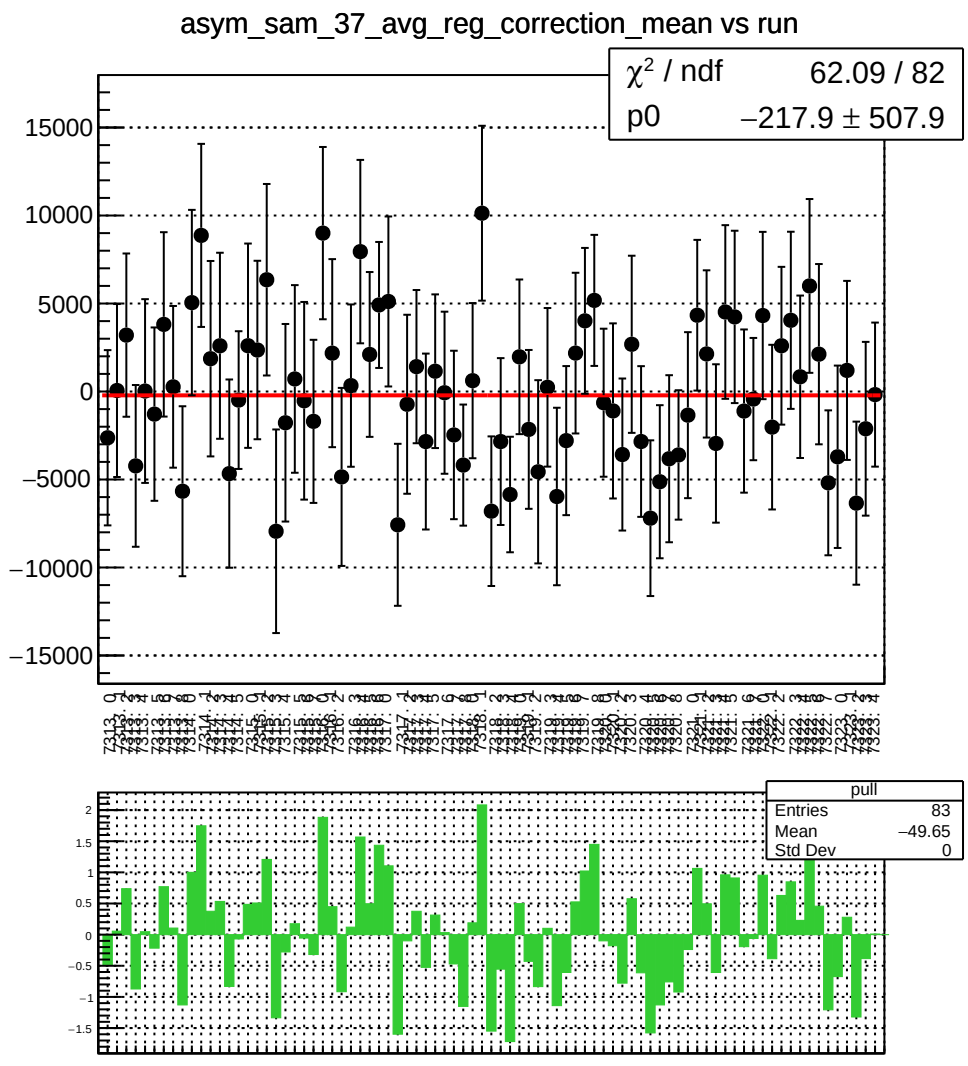

pull1D
Entries 83
Mean 0.006751
Std Dev 1.092

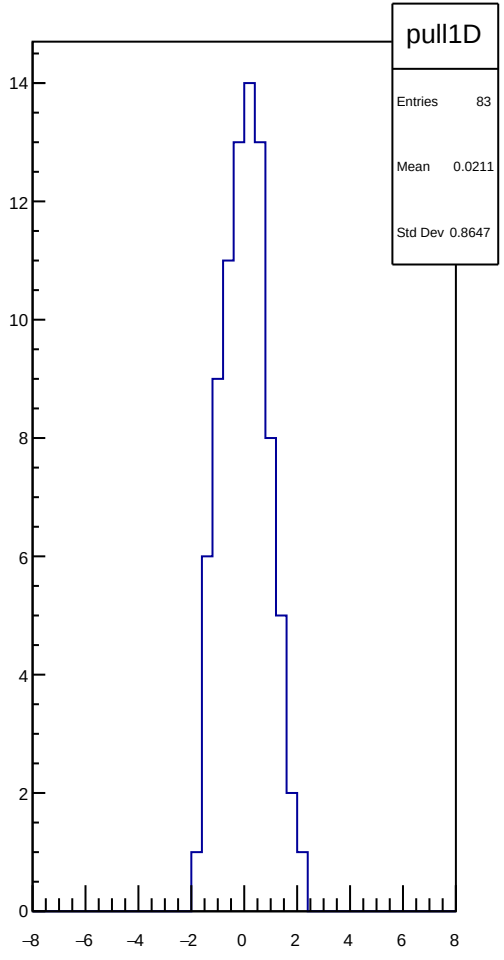

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.08e+05 / 82
p0 6.929e−12 ± 6.317e−15
45
40
35
30
25
20
15
10
5

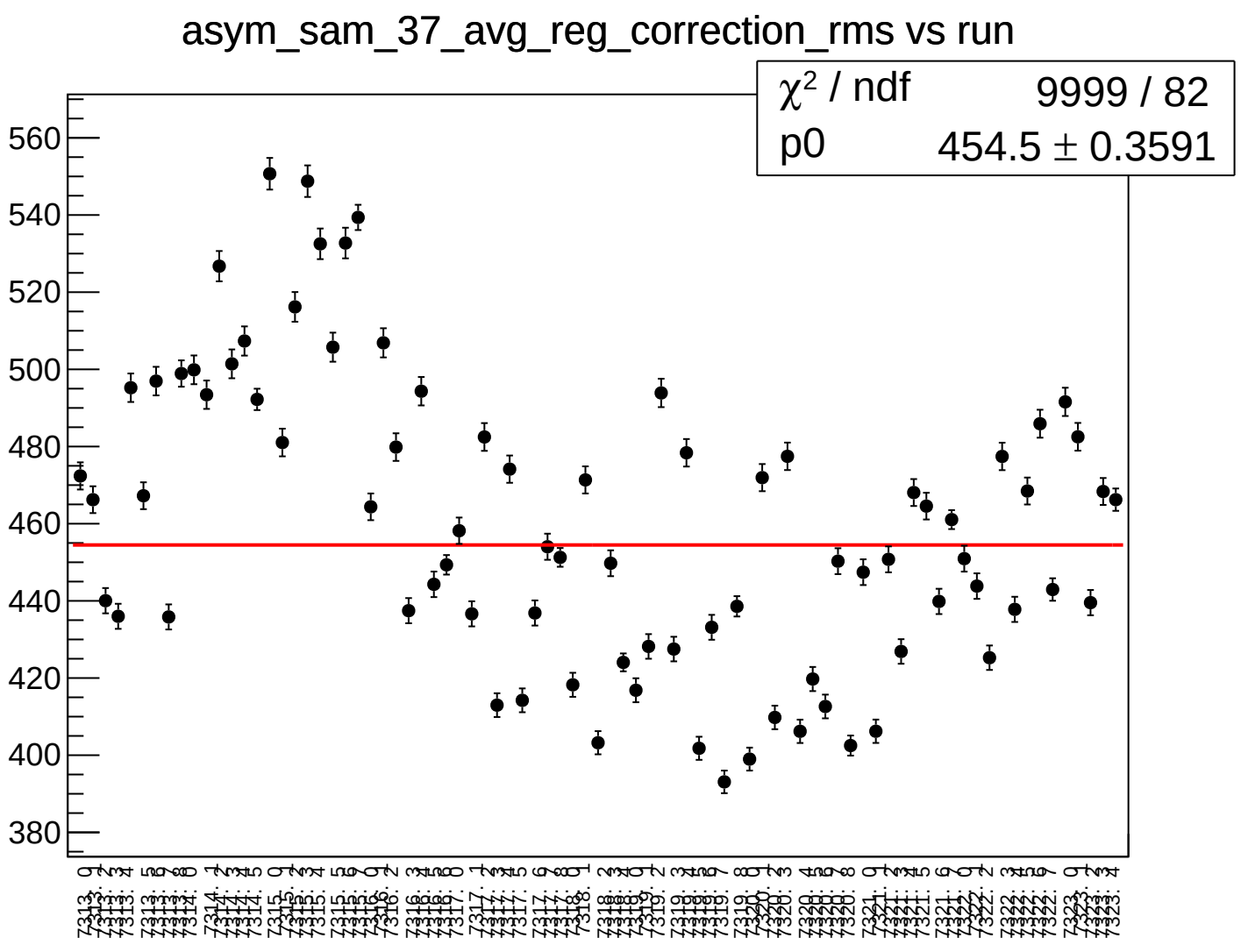

reg_asym_sam_37_avg_mean vs run
χ² / ndf 85.21 / 82
p0 43.53 ± 59.12
pull
Entries 83
Mean −332.9
Std Dev 0

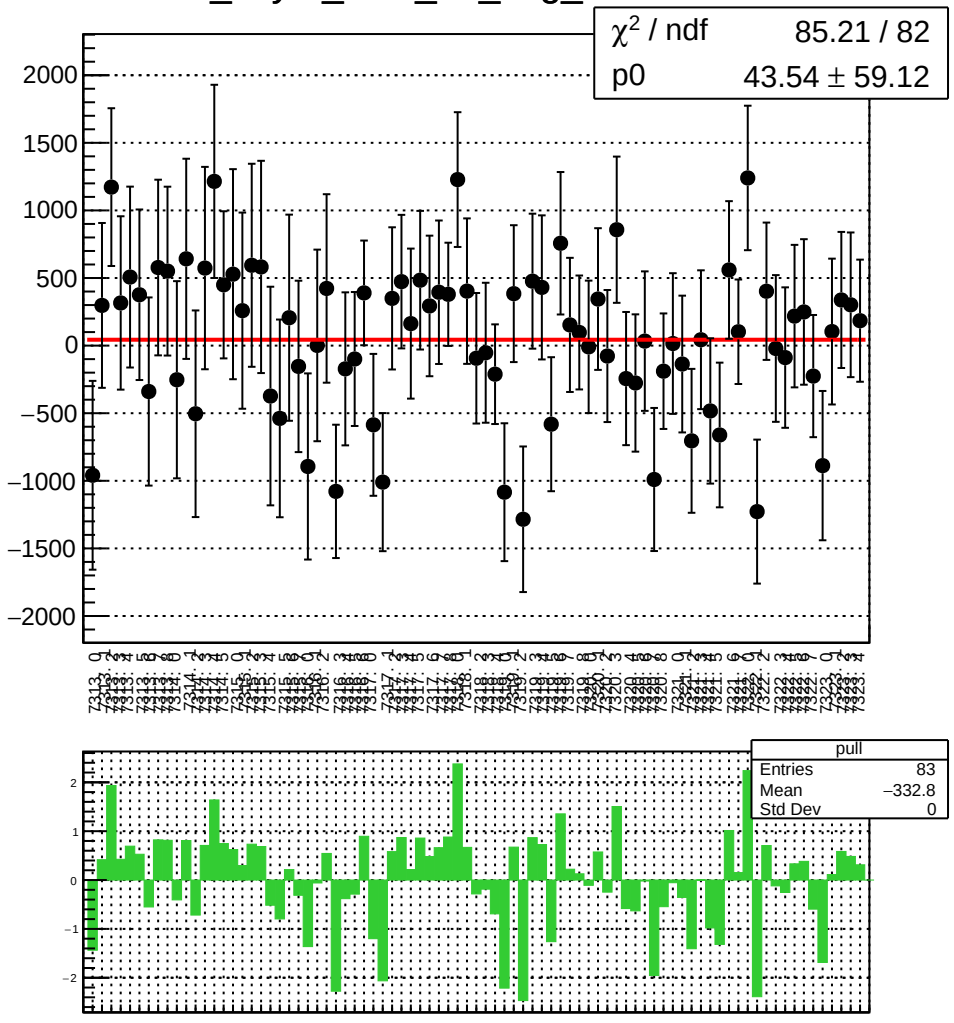

pull1D
Entries 83
Mean 0.009436
Std Dev 1.013

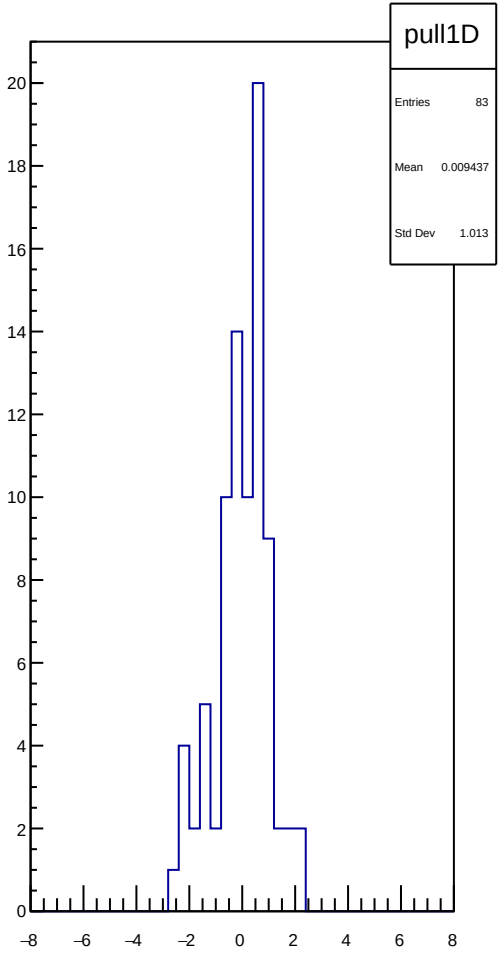

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.214e+04 / 82
p0 52.54 ± 0.04181
80
75
70
65
60
55
50
45

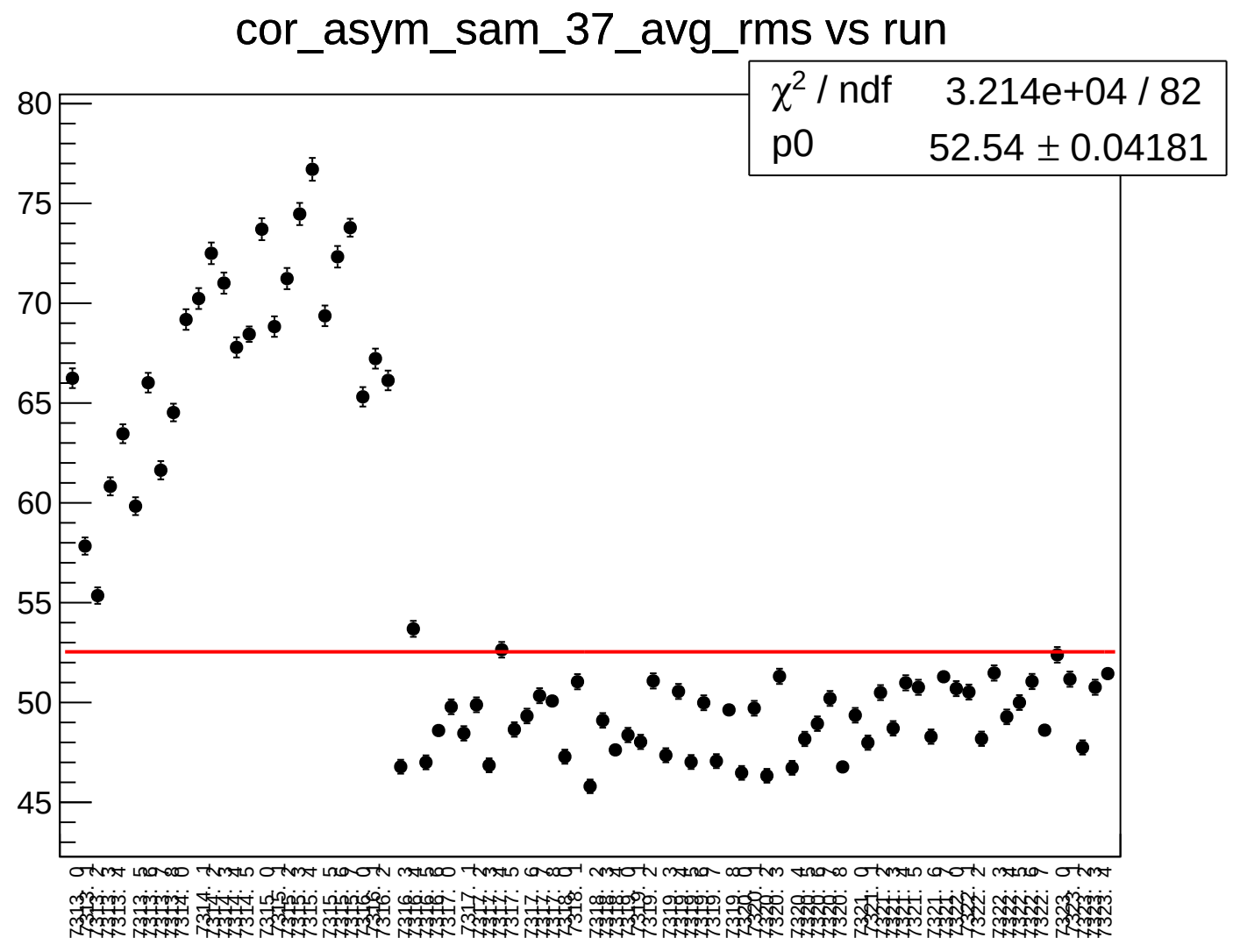

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 62.09 / 82
p0 −217.9 ± 507.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −49.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

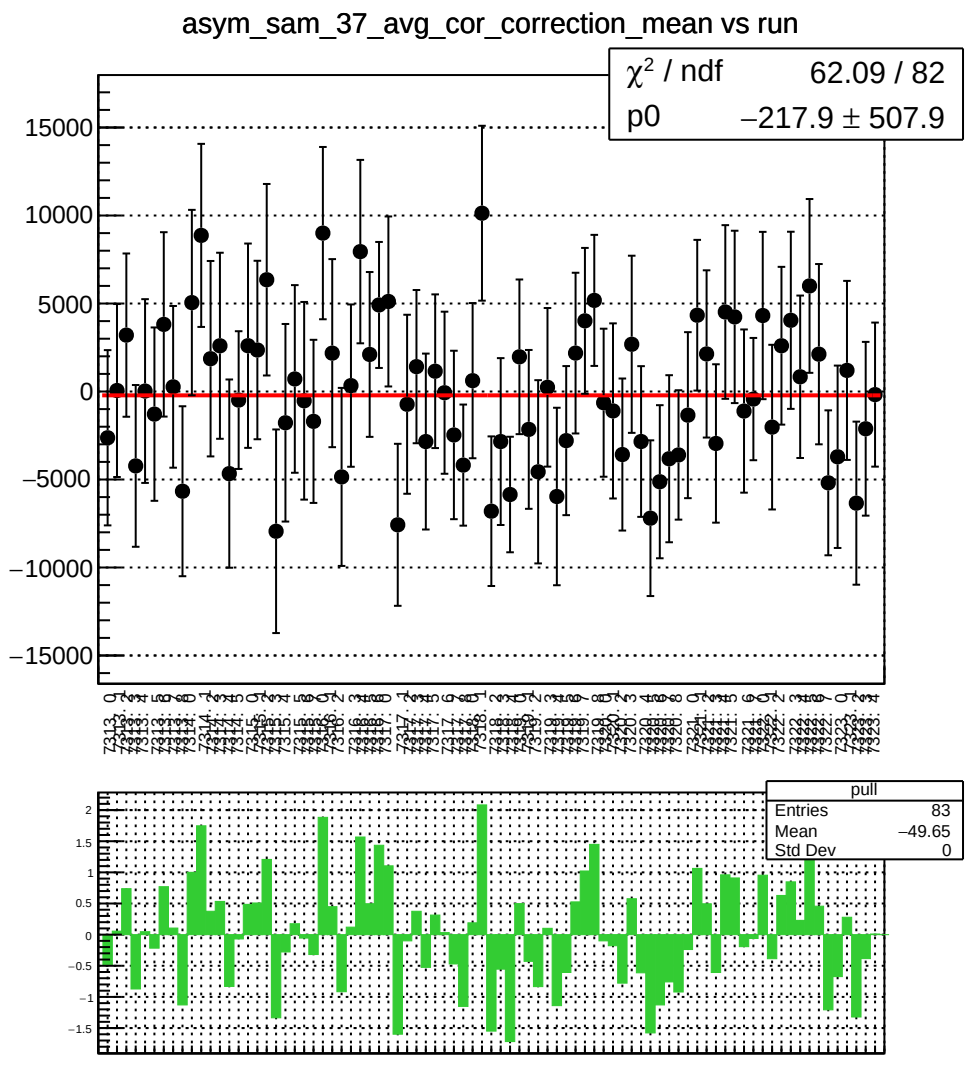

pull1D
Entries 83
Mean 0.0211
Std Dev 0.8647
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

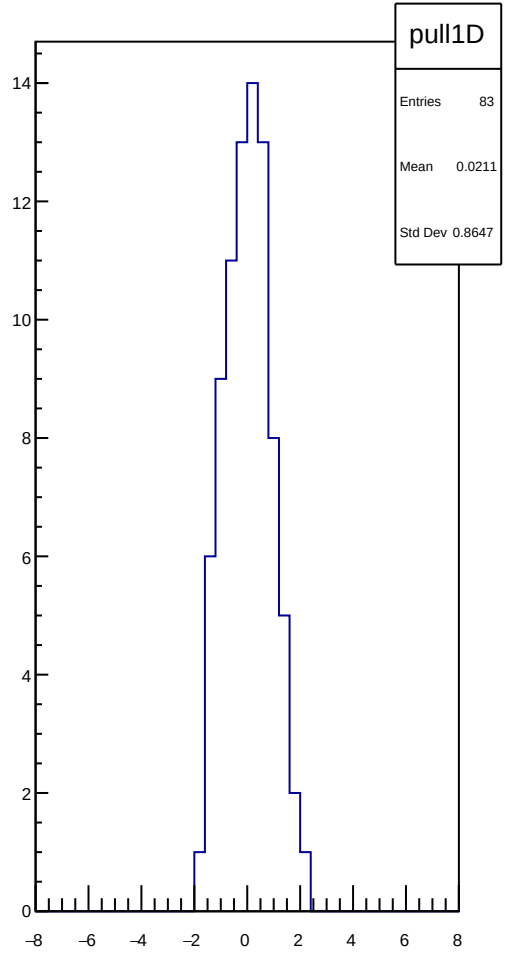

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 9999 / 82
p0 454.5 ± 0.3591
560
540
520
500
480
460
440
420
400
380

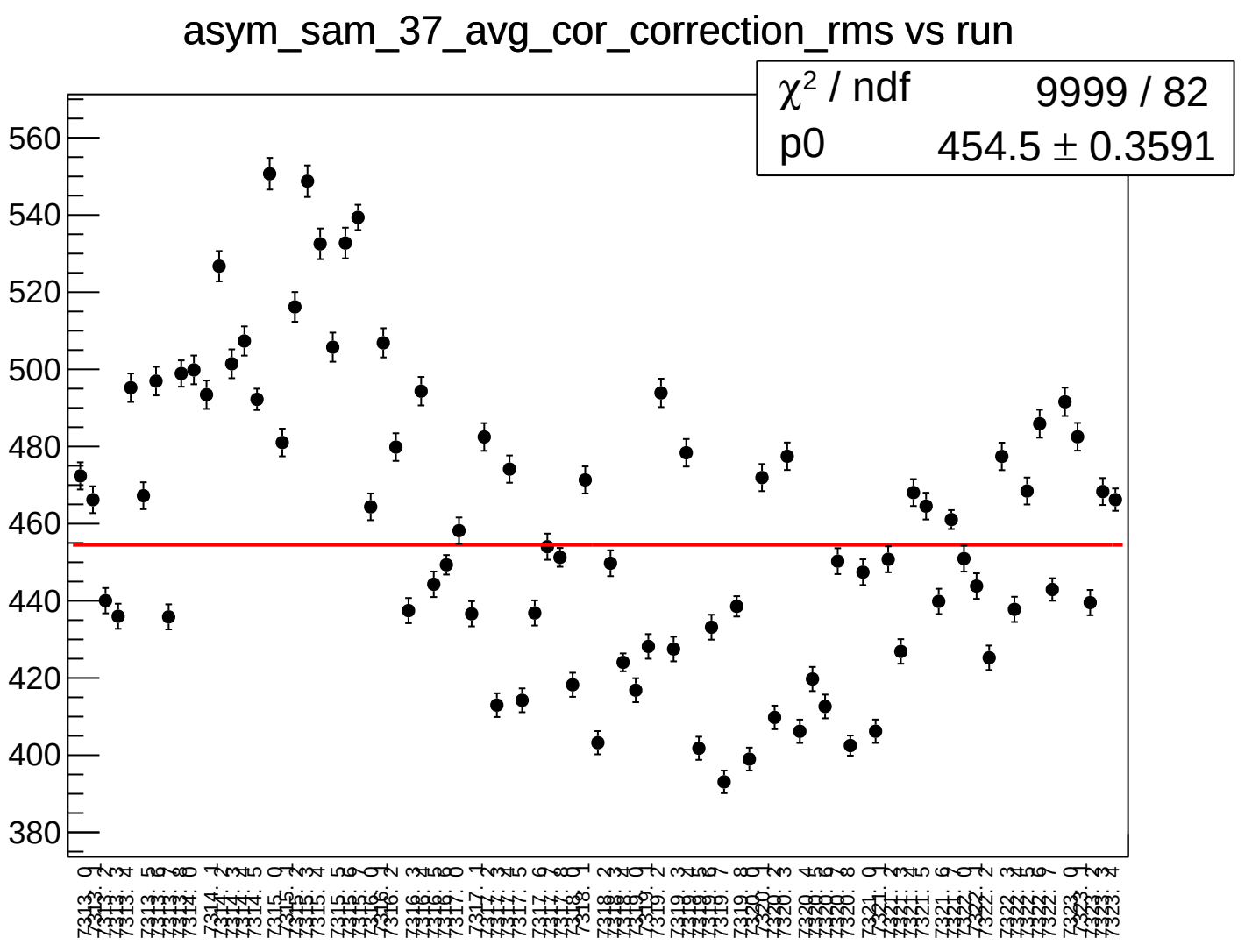

cor_asym_sam_37_avg_mean vs run
χ² / ndf 85.21 / 82
p0 43.54 ± 59.12
pull
Entries 83
Mean −332.8
Std Dev 0

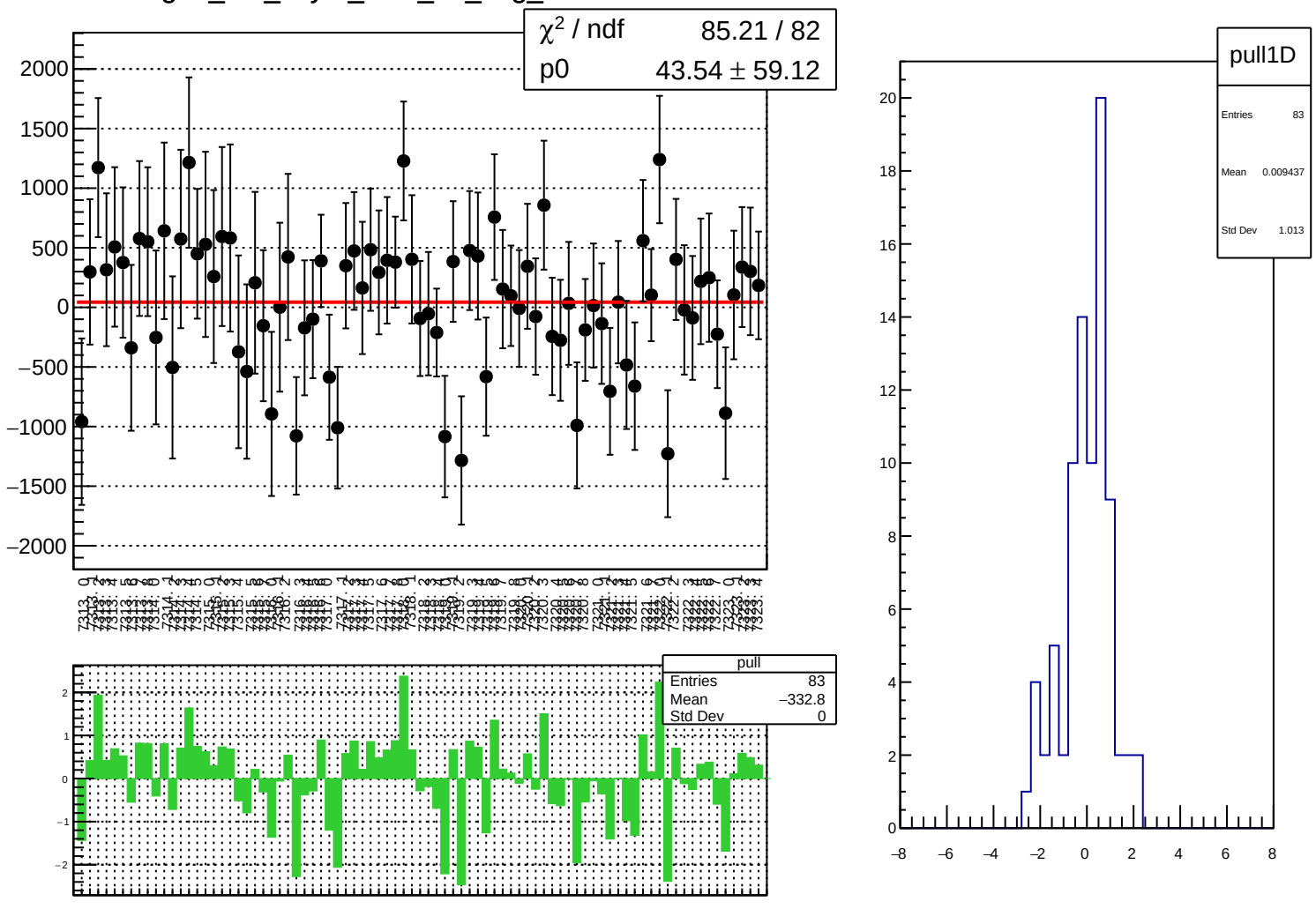

pull1D
Entries 83
Mean 0.009437
Std Dev 1.013

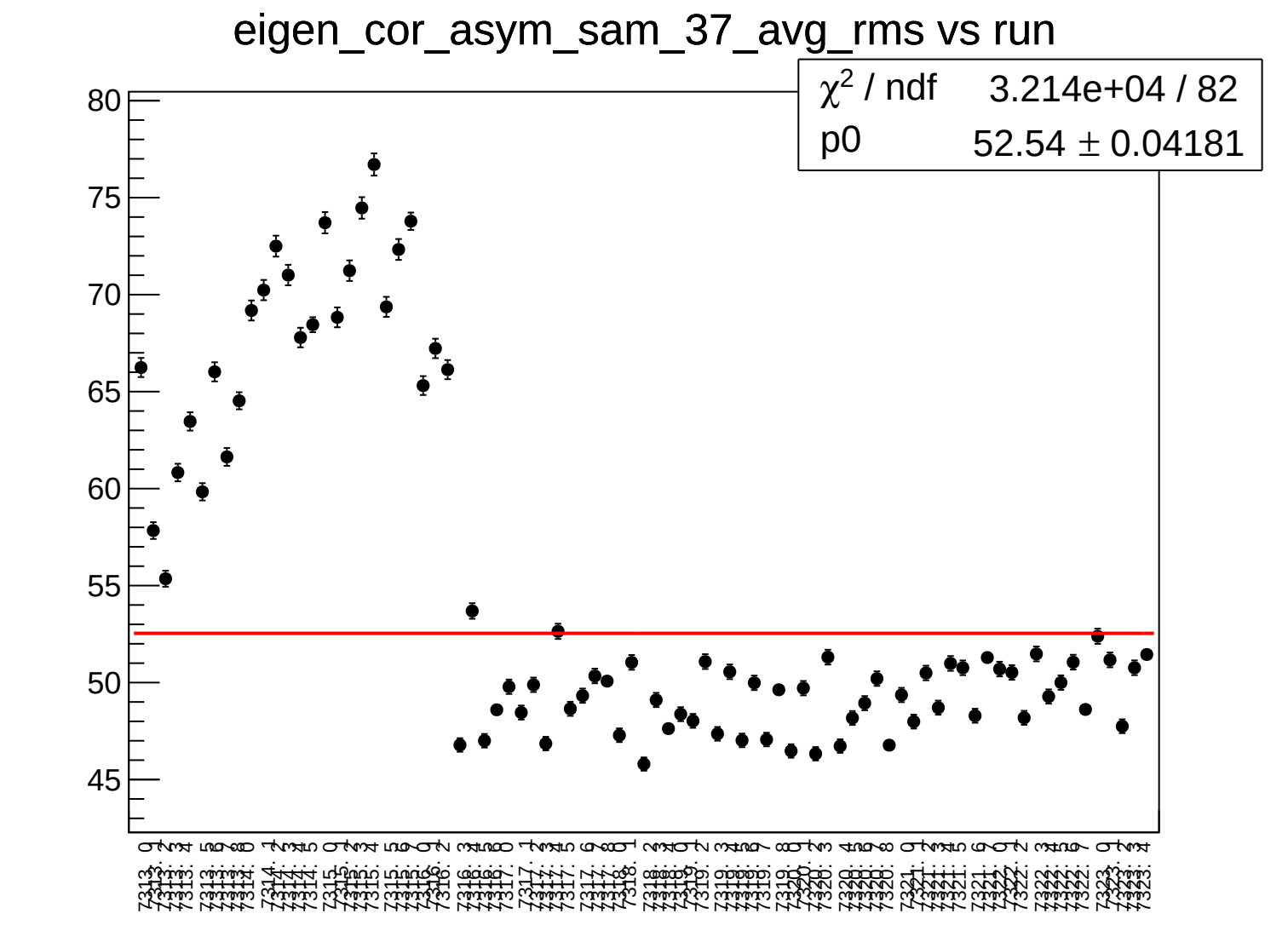

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.214e+04 / 82
p0 52.54 ± 0.04181
80
75
70
65
60
55
50
45

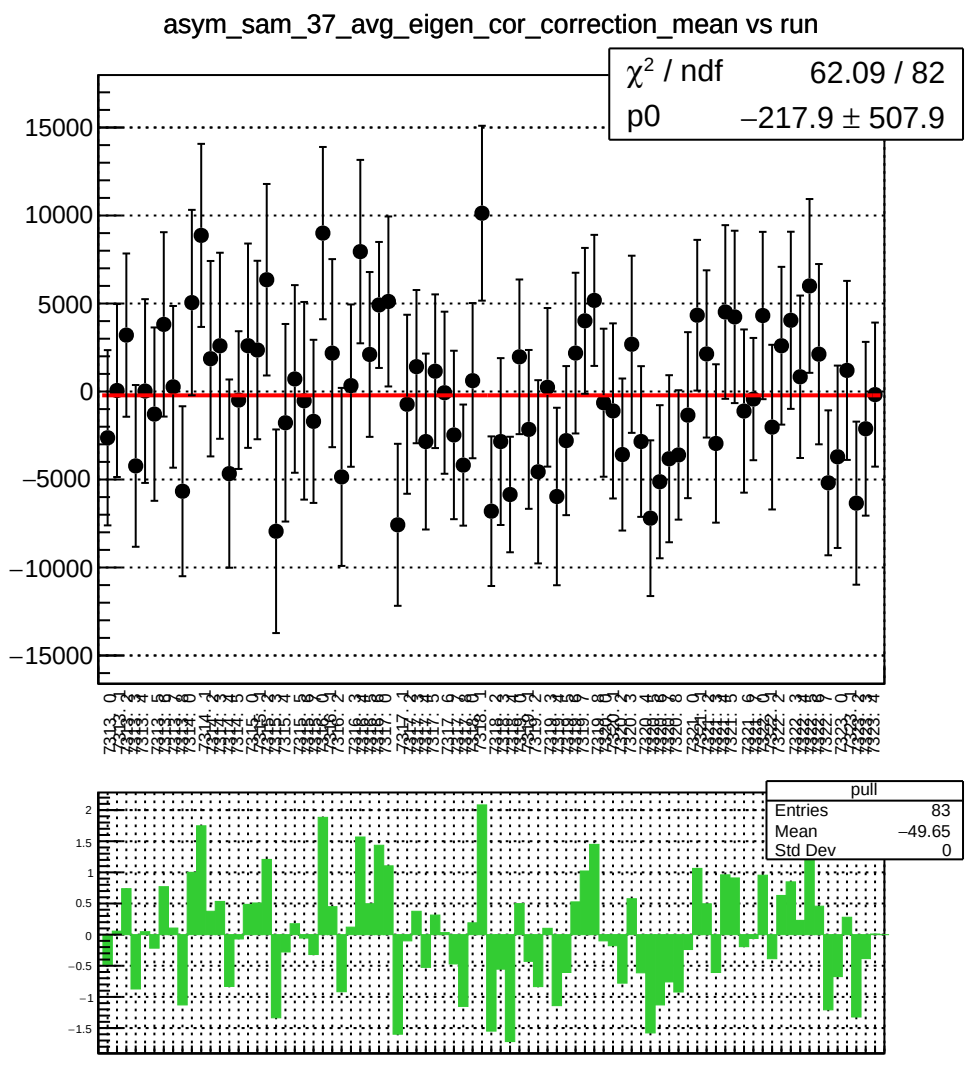

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 62.09 / 82
p0 −217.9 ± 507.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −49.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

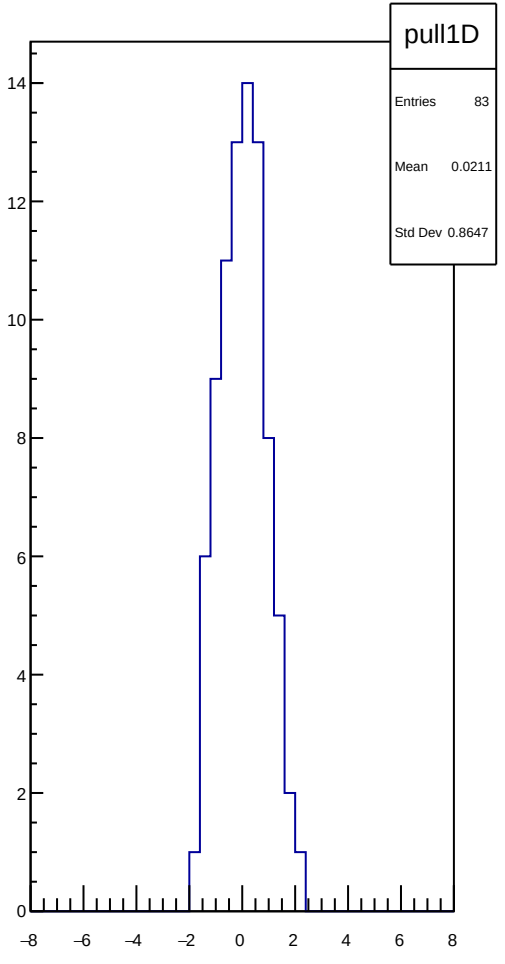

pull1D
Entries 83
Mean 0.0211
Std Dev 0.8647
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

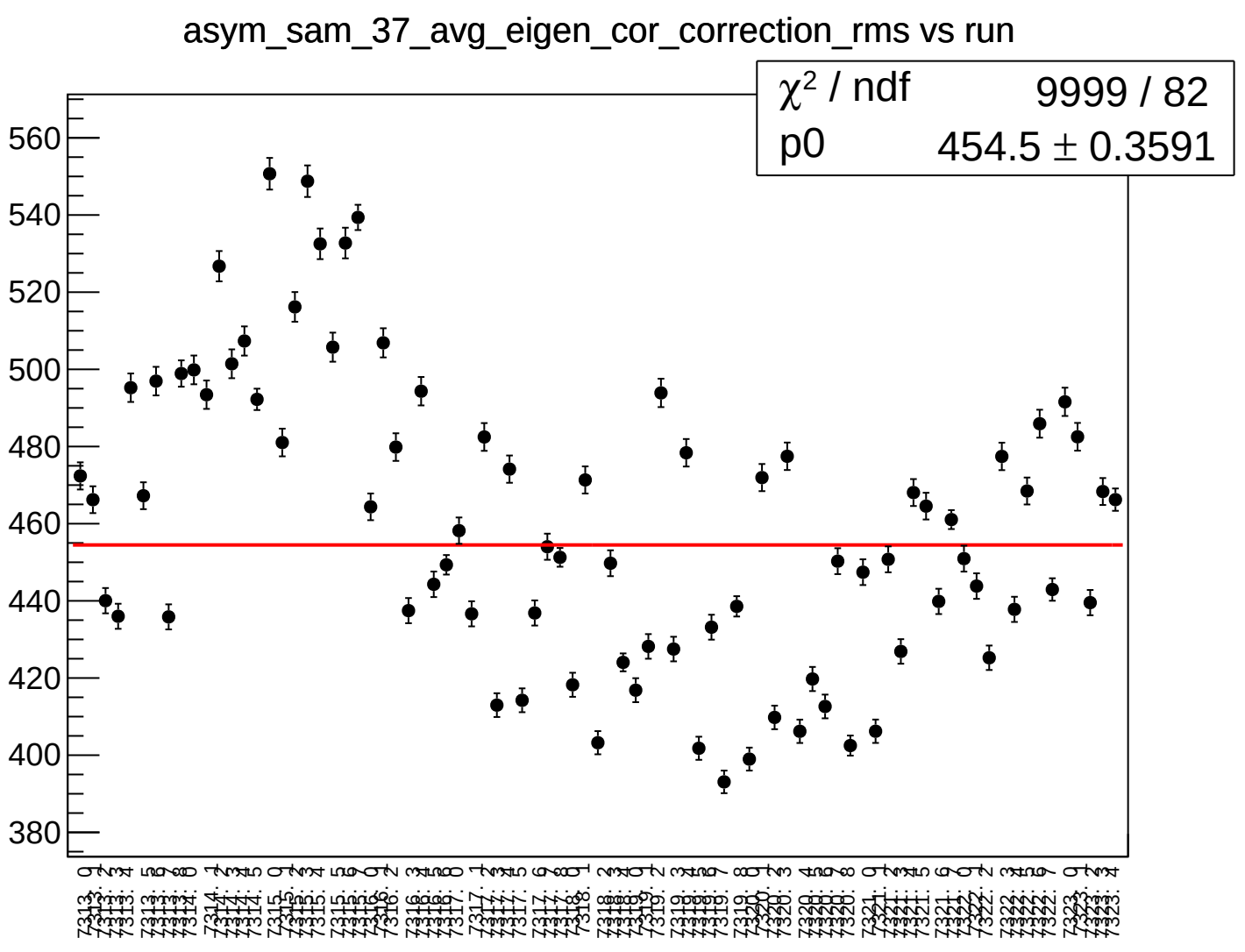

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 9999 / 82
p0 454.5 ± 0.3591
560
540
520
500
480
460
440
420
400
380

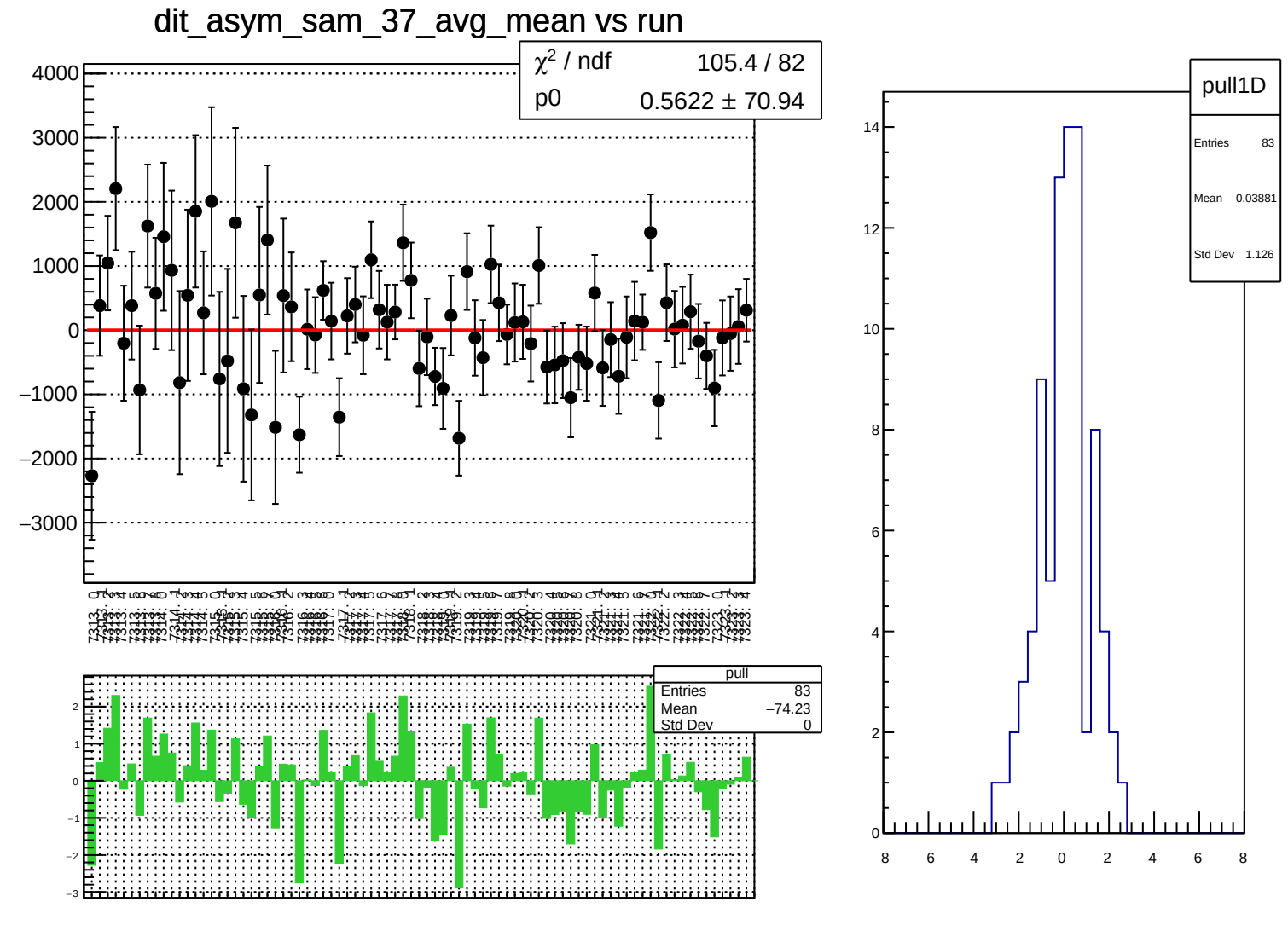

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 85.21 / 82
p0 43.54 ± 59.12
pull
Entries 83
Mean −332.8
Std Dev 0
pull1D
Entries 83
Mean 0.009437
Std Dev 1.013

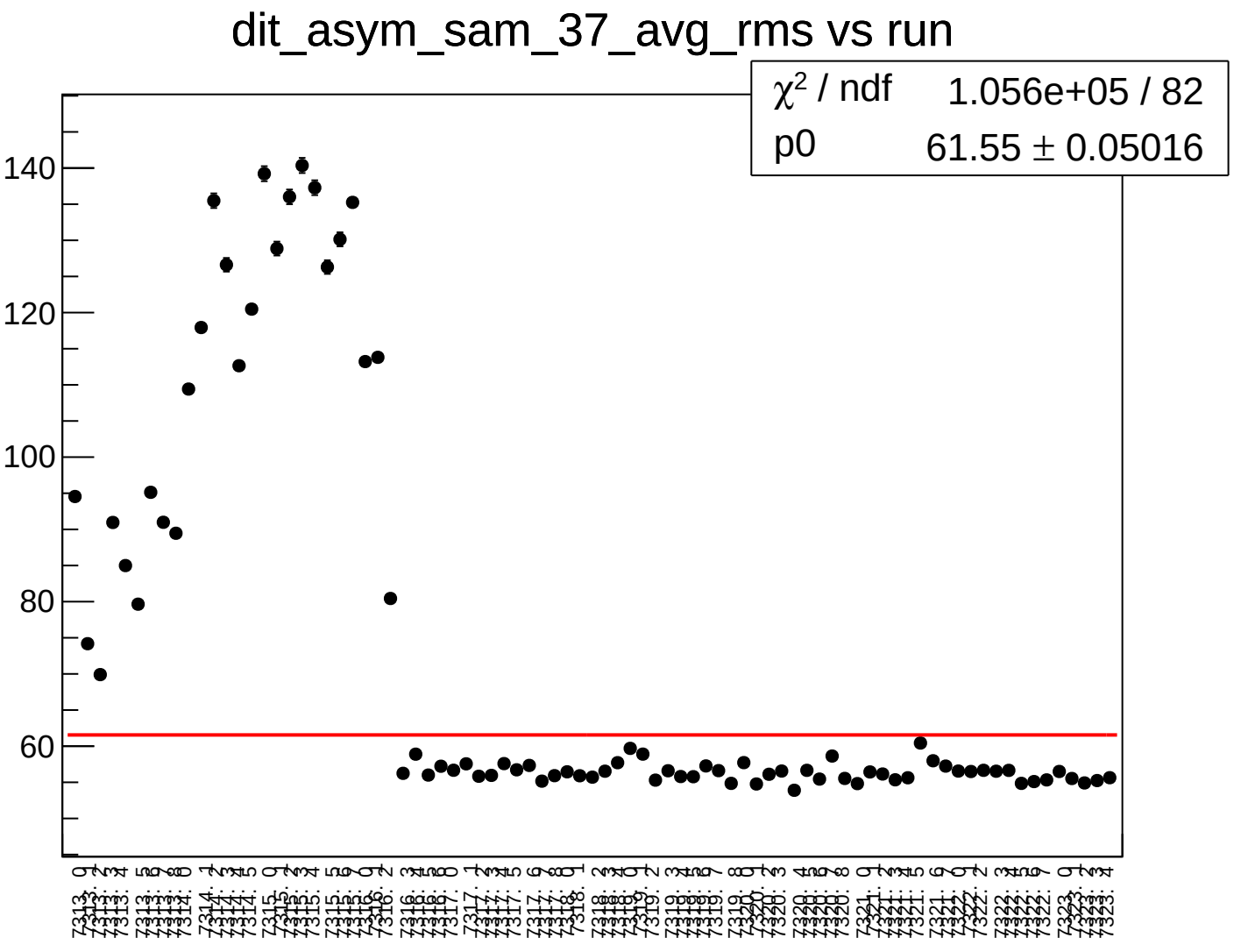

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.214e+04 / 82
p0 52.54 ± 0.04181
80
75
70
65
60
55
50
45

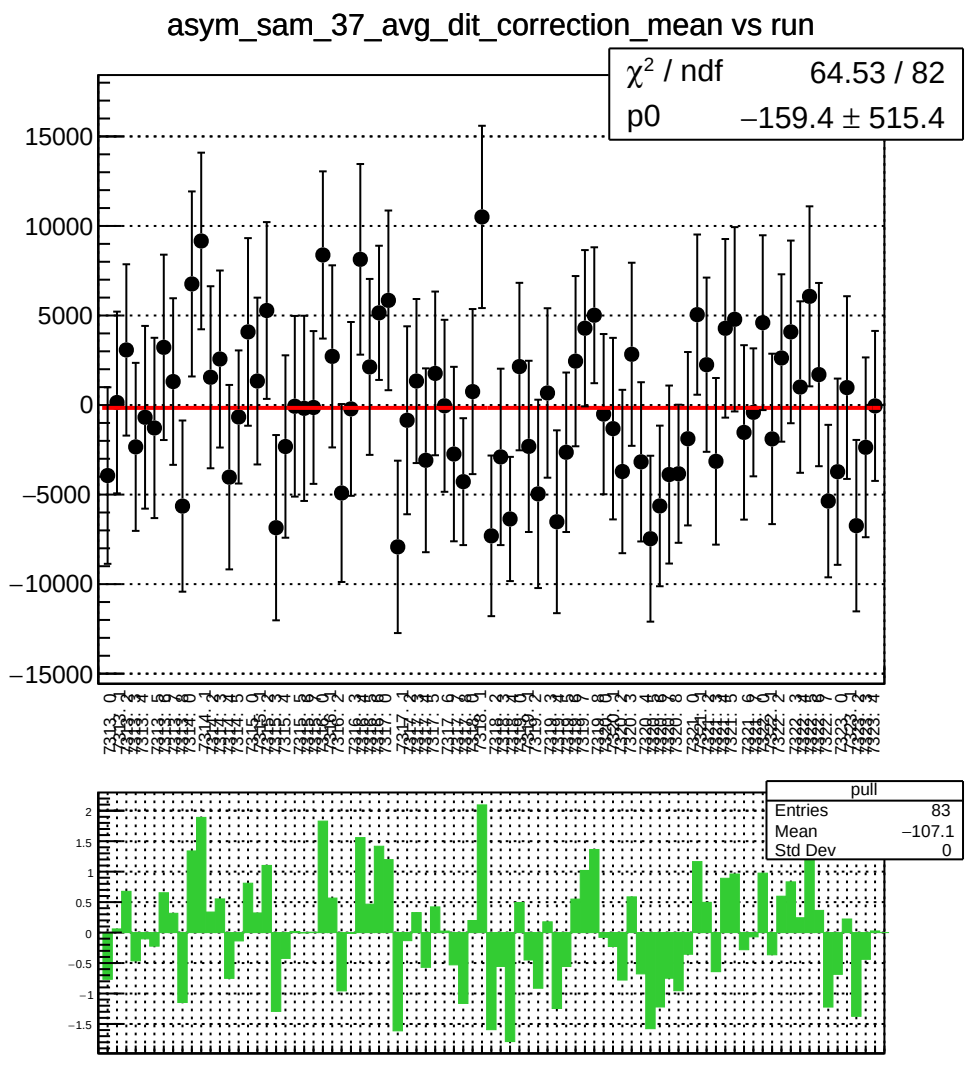

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 62.09 / 82
p0 −217.9 ± 507.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −49.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

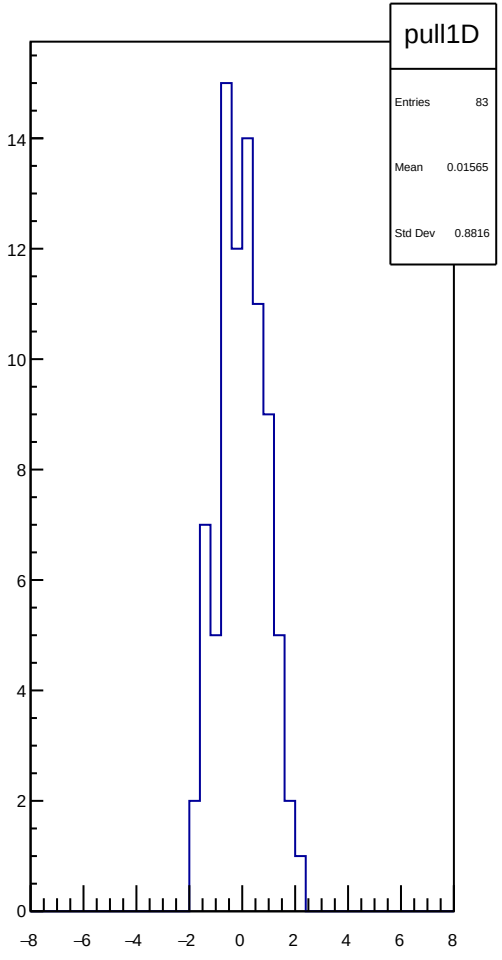

pull1D
Entries 83
Mean 0.0211
Std Dev 0.8647
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

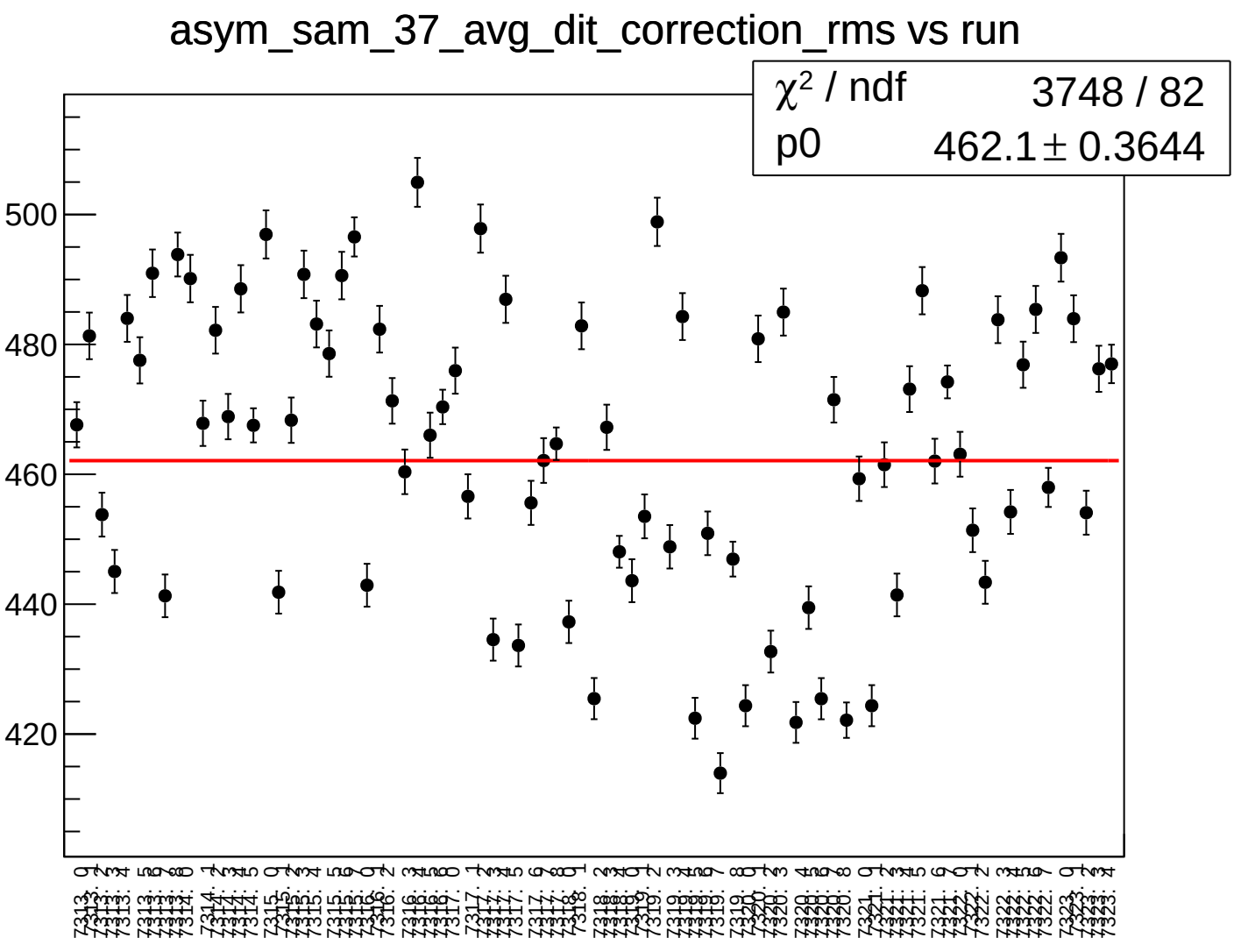

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 9999 / 82
p0 454.5 ± 0.3591
560
540
520
500
480
460
440
420
400
380

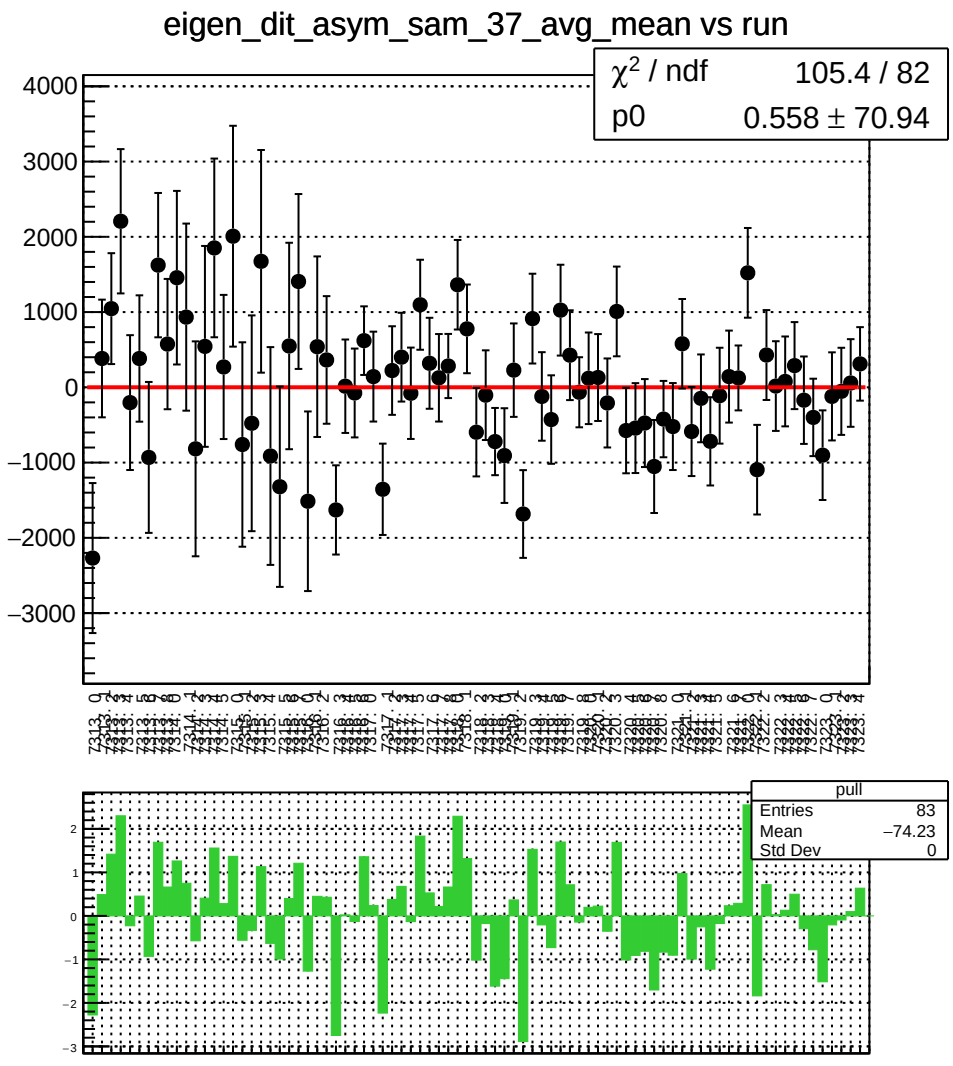

dit_asym_sam_37_avg_mean vs run
χ² / ndf 105.4 / 82
p0 0.5622 ± 70.94
pull
Entries 83
Mean −74.23
Std Dev 0
pull1D
Entries 83
Mean 0.03881
Std Dev 1.126

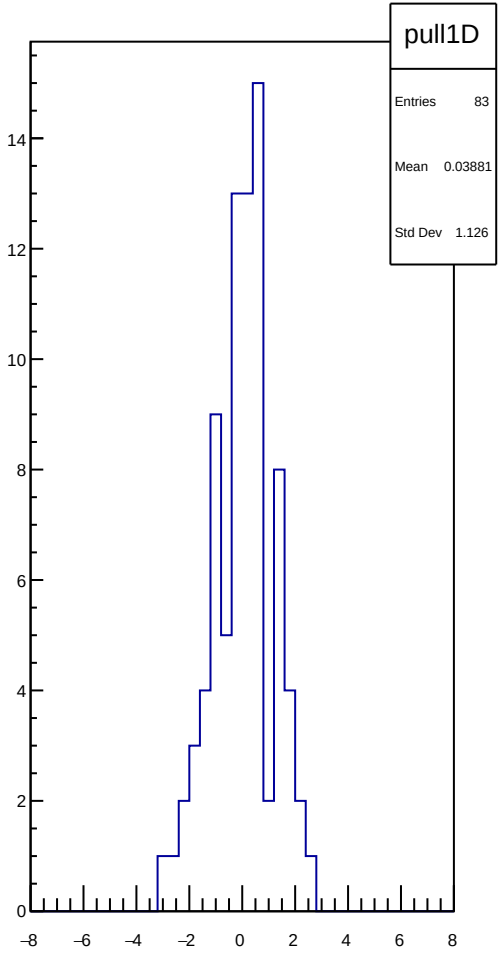

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.056e+05 / 82
p0 61.55 ± 0.05016
140
120
100
80
60

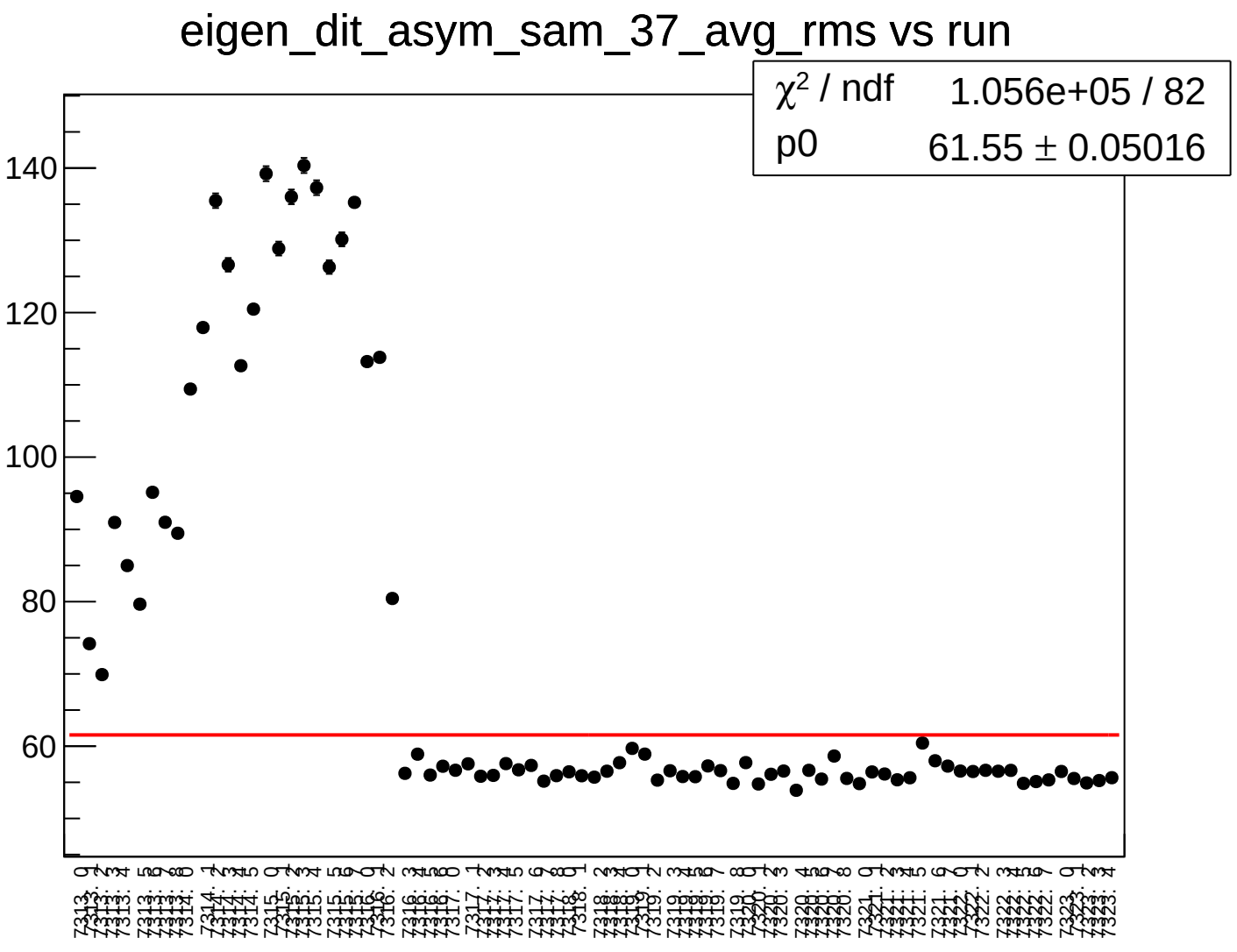

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 64.53 / 82
p0 −159.4 ± 515.4
pull
Entries 83
Mean −107.1
Std Dev 0

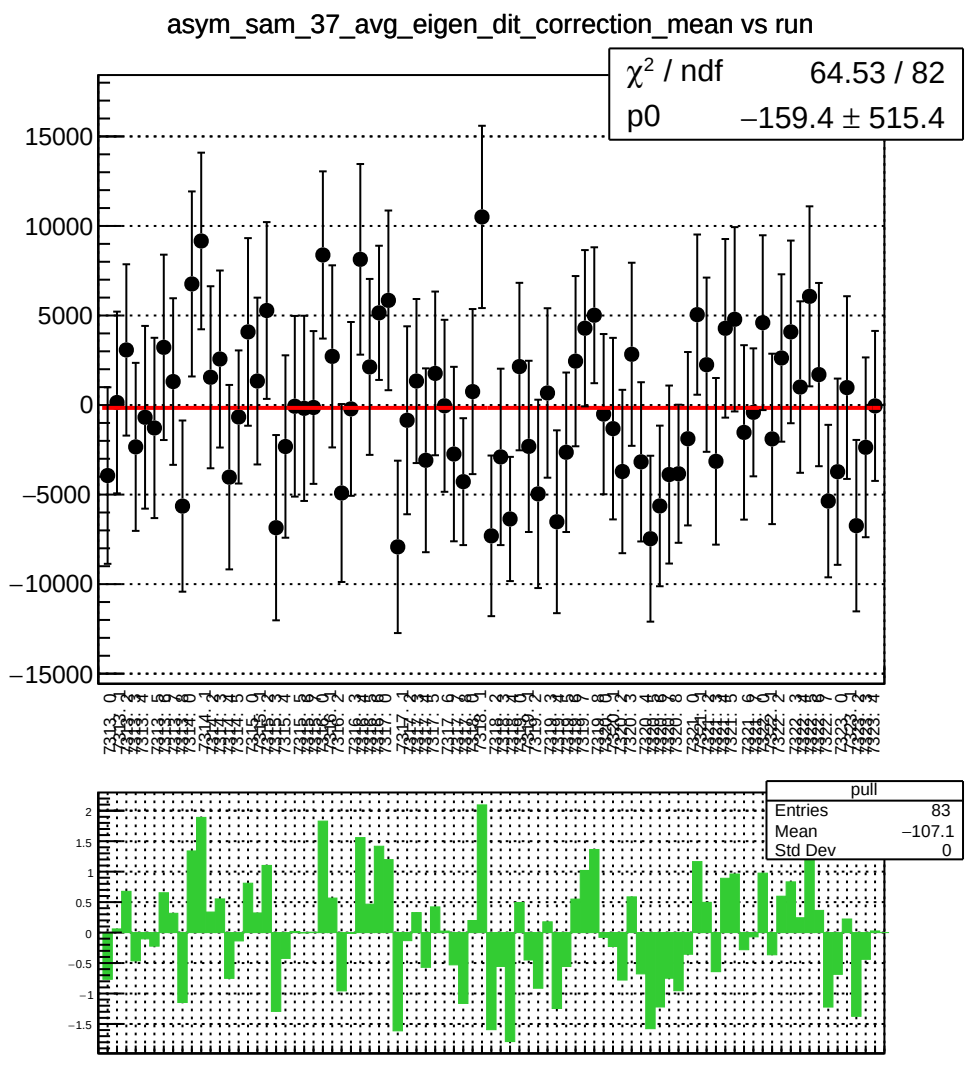

pull1D
Entries 83
Mean 0.01565
Std Dev 0.8816

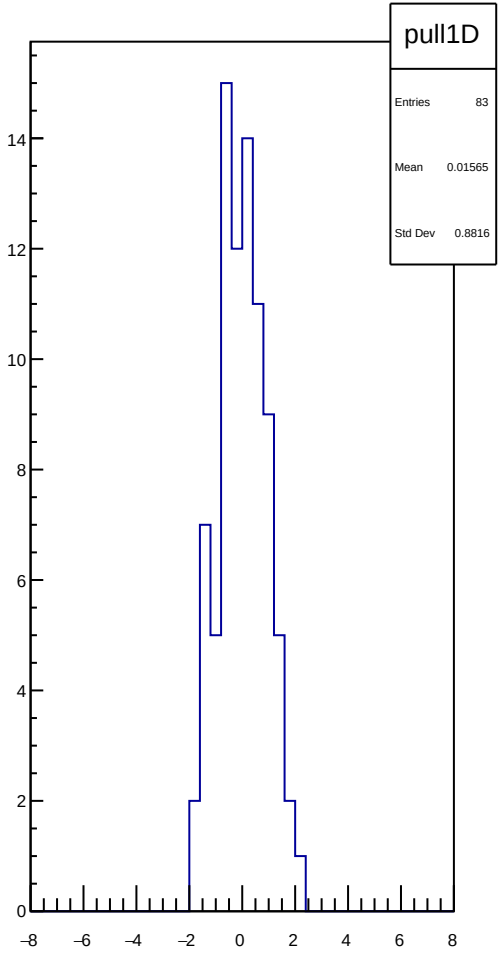

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3748 / 82
p0 462.1 ± 0.3644
500
480
460
440
420

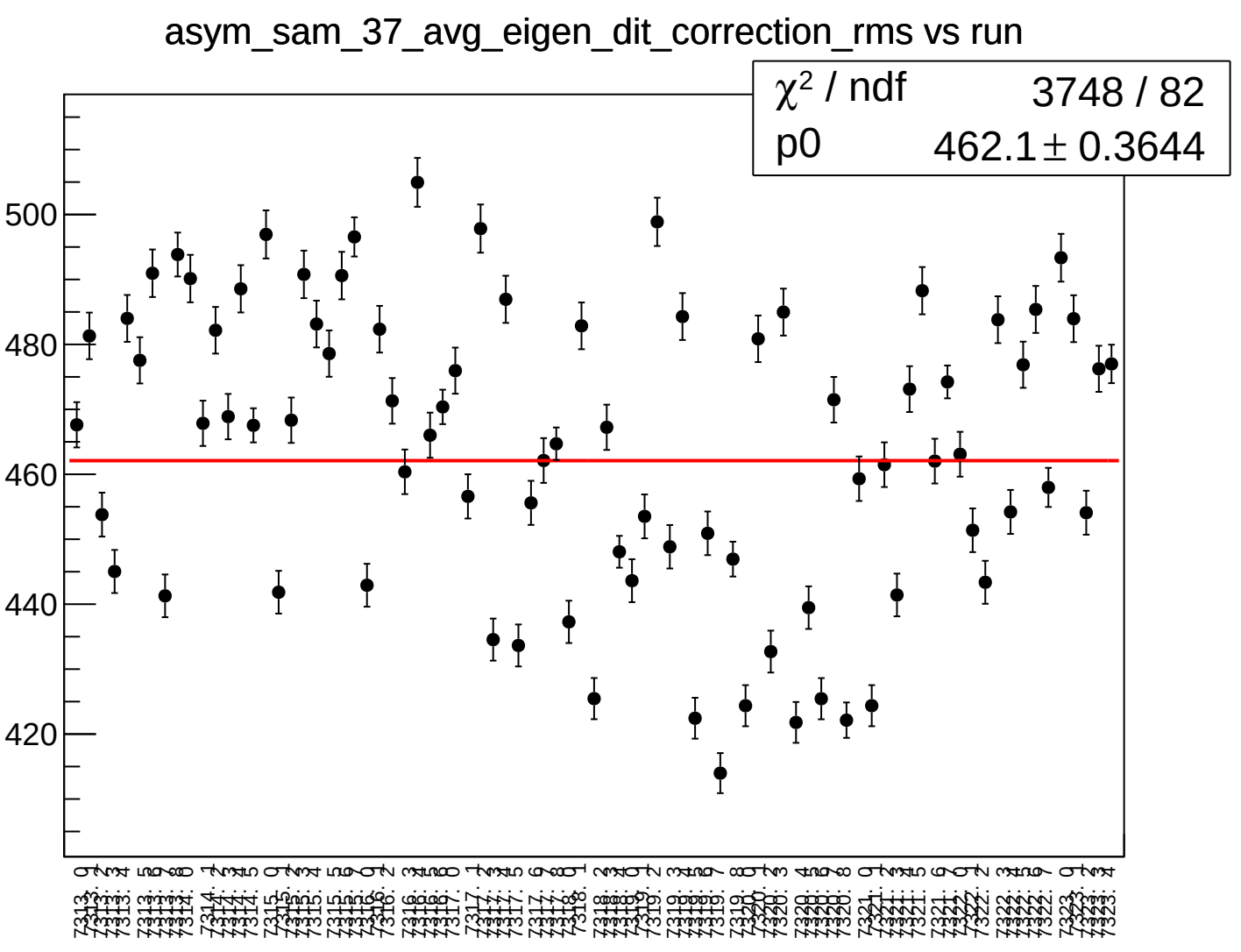

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 105.4 / 82
p0 0.558 ± 70.94
pull
Entries 83
Mean −74.23
Std Dev 0

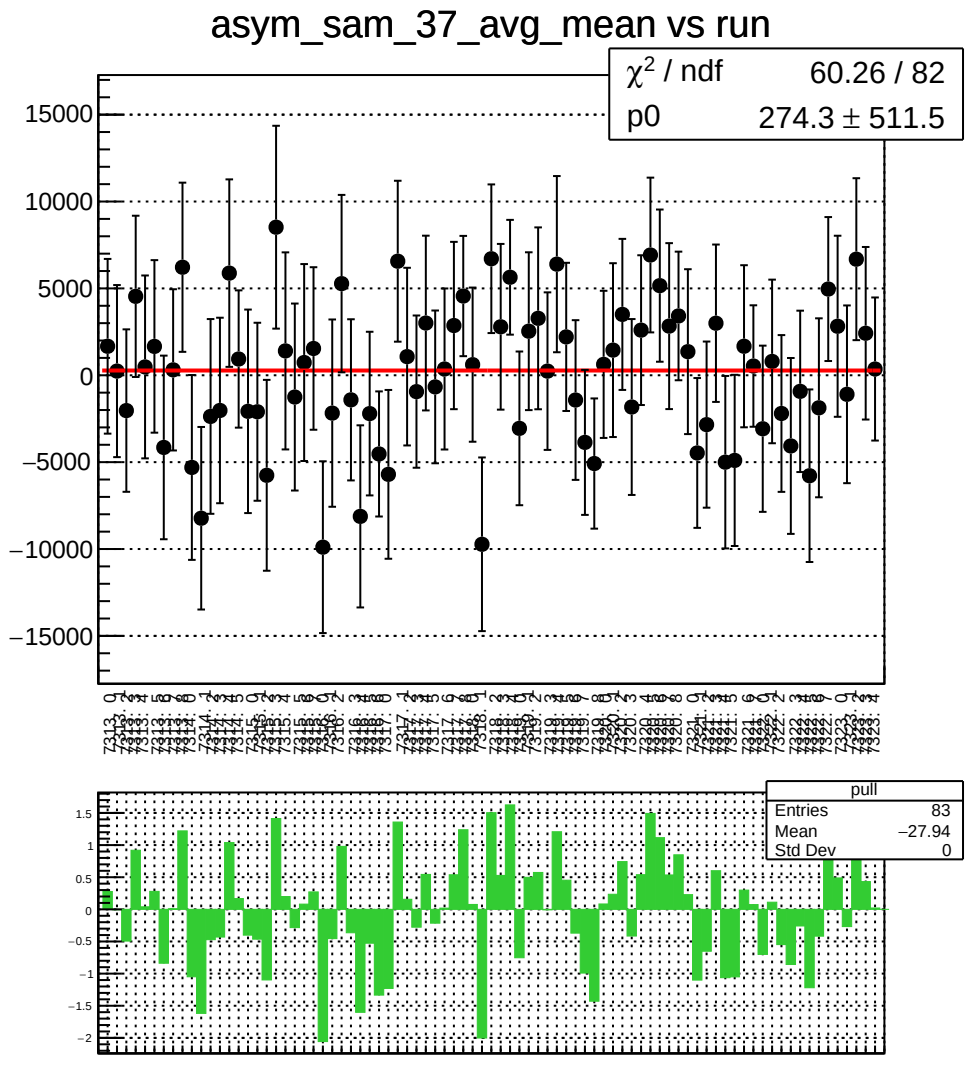

pull1D
Entries 83
Mean 0.03881
Std Dev 1.126

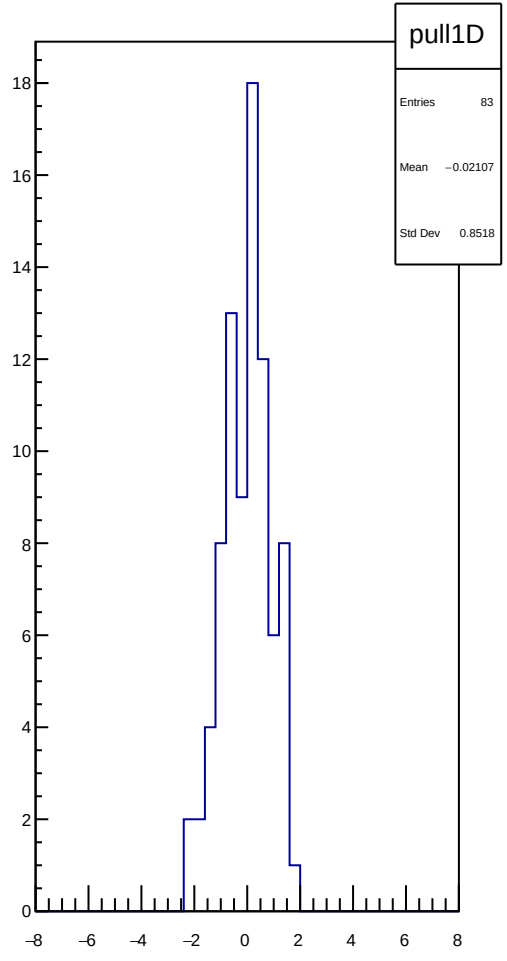

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.056e+05 / 82
p0 61.55 ± 0.05016
140
120
100
80
60

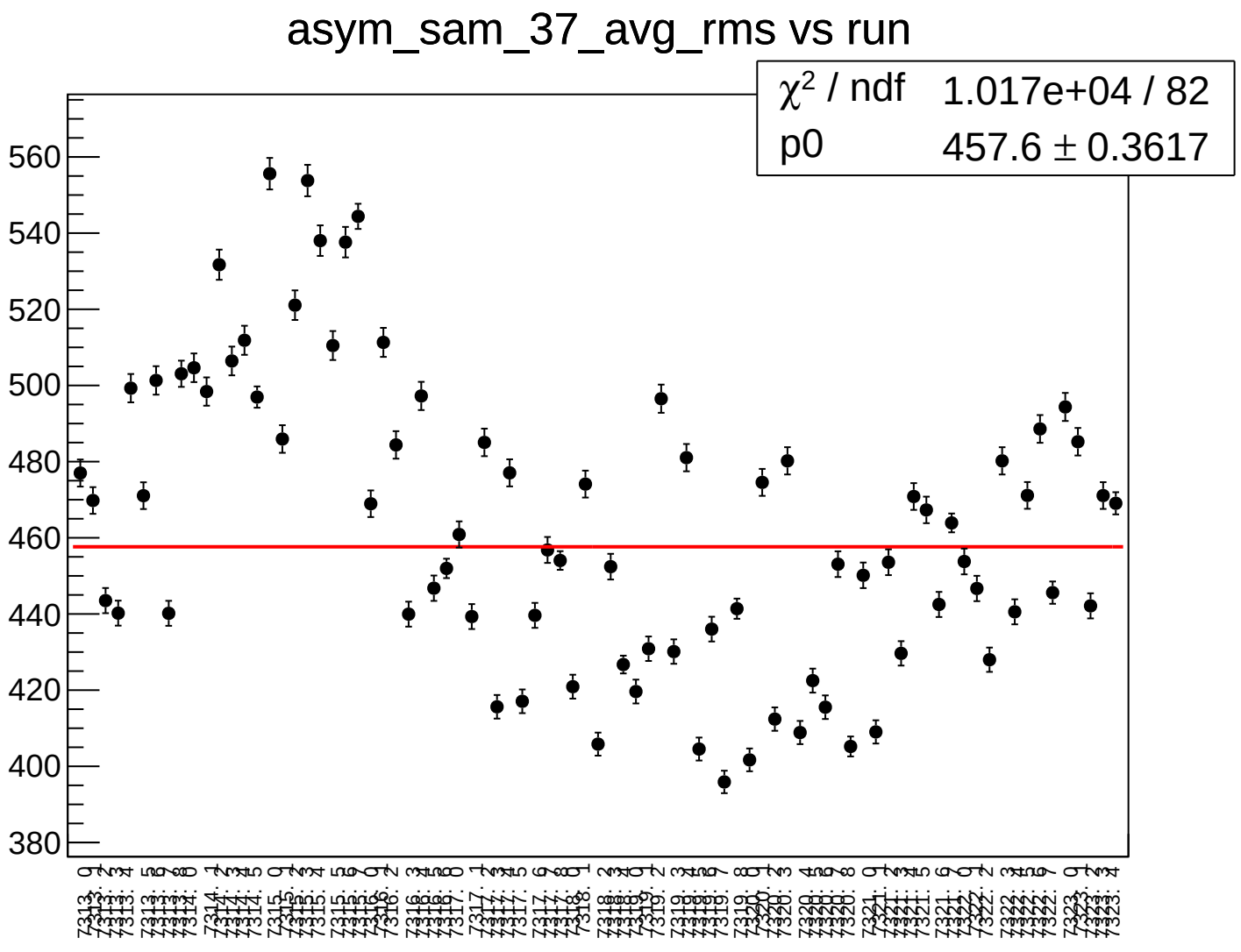

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.53 / 82
p0 −159.4 ± 515.4
pull
Entries 83
Mean −107.1
Std Dev 0

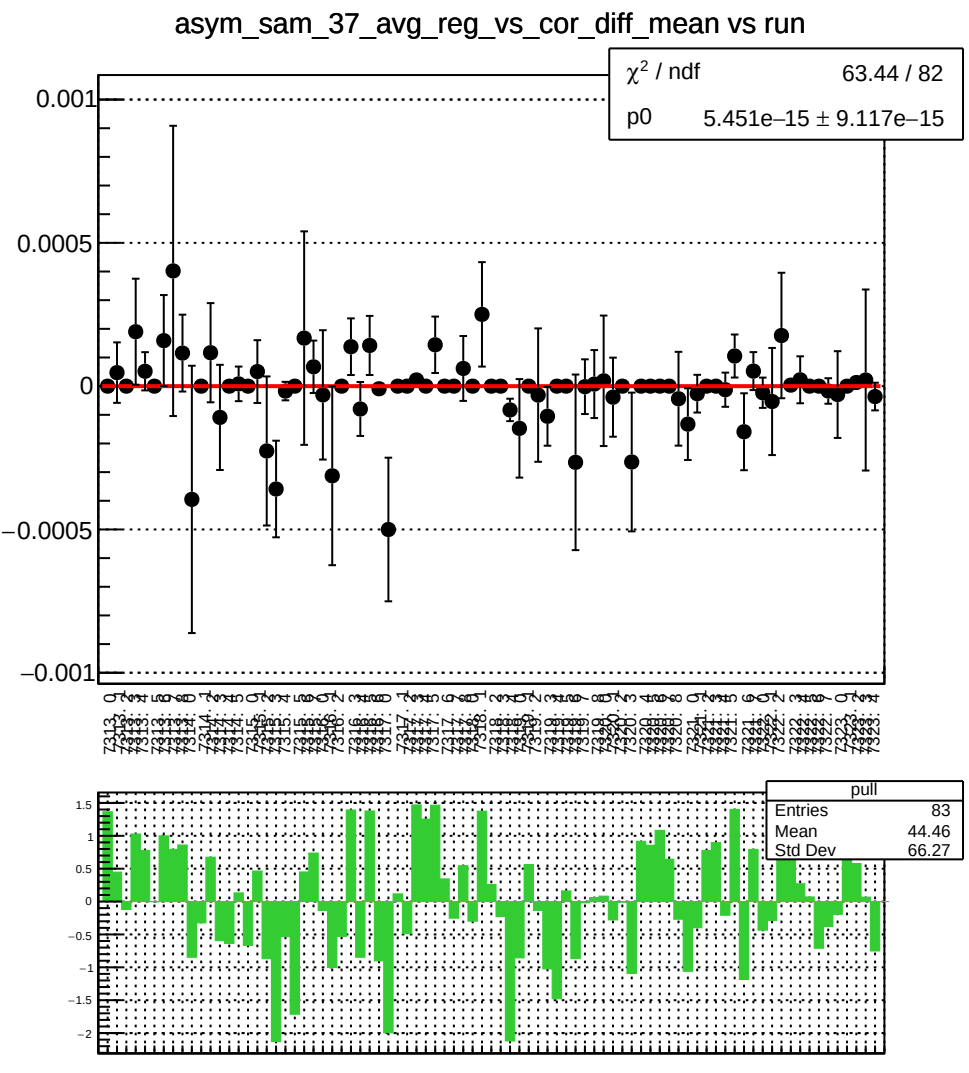

pull1D
Entries 83
Mean 0.01565
Std Dev 0.8816

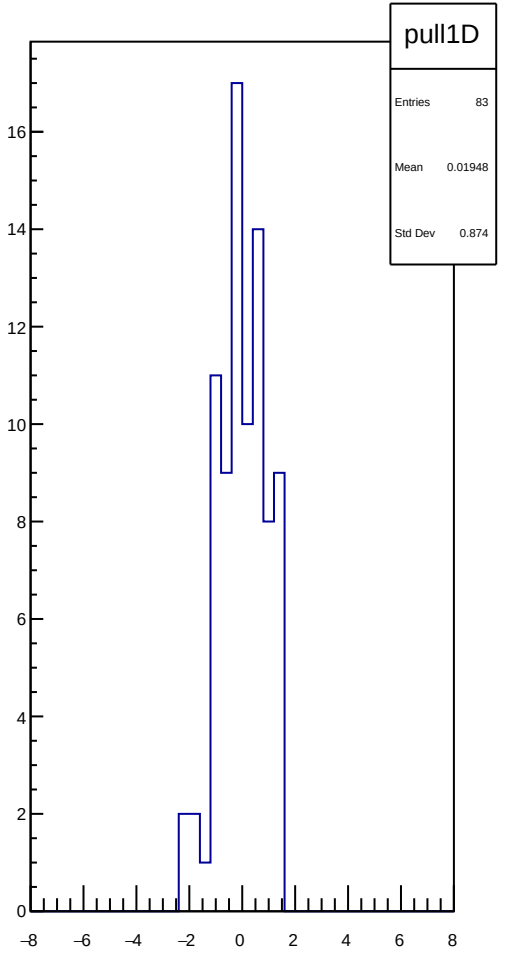

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3748 / 82
p0 462.1 ± 0.3644
500
480
460
440
420

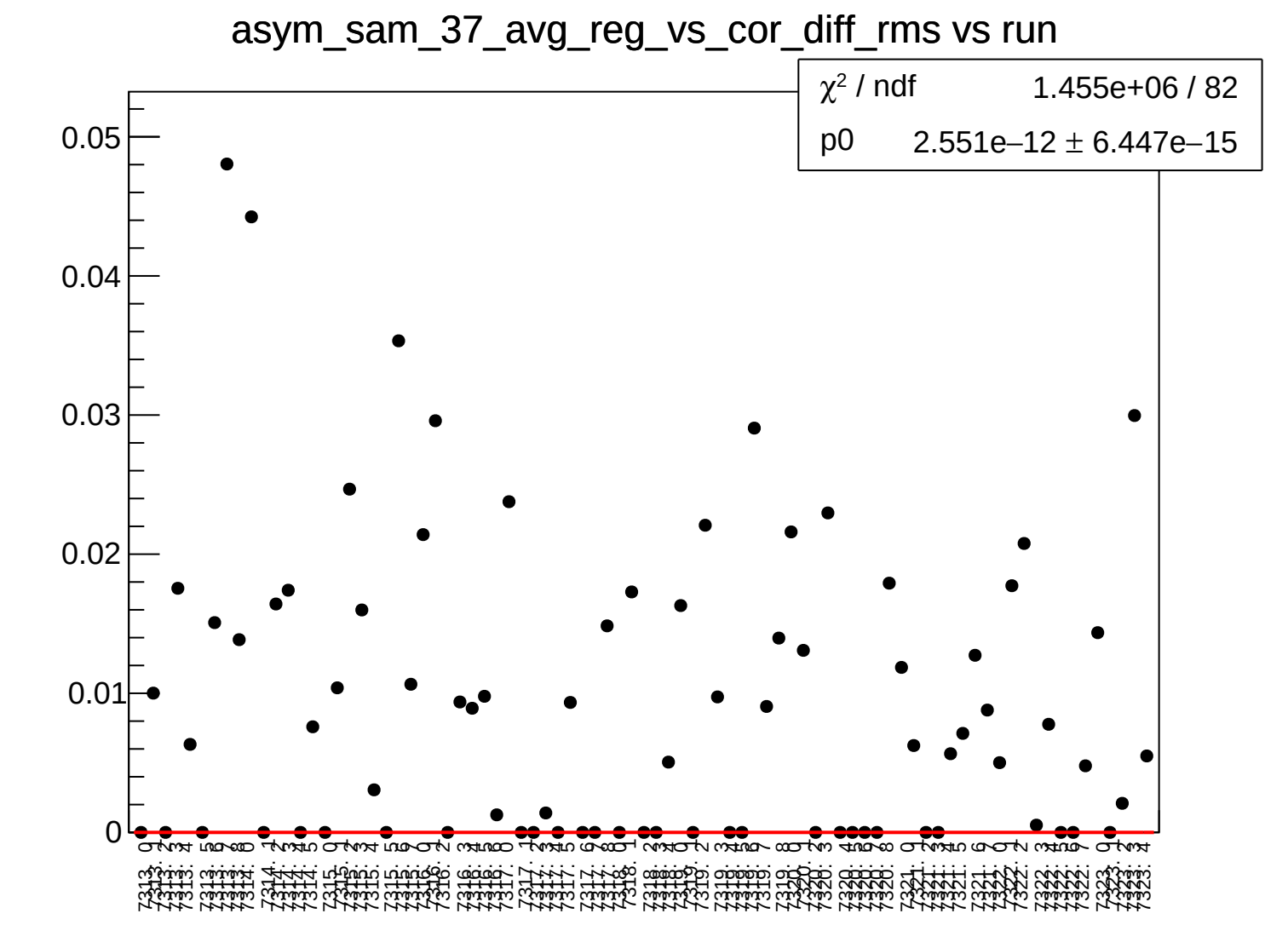

asym_sam_37_avg_mean vs run
χ² / ndf 60.26 / 82
p0 274.3 ± 511.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −27.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

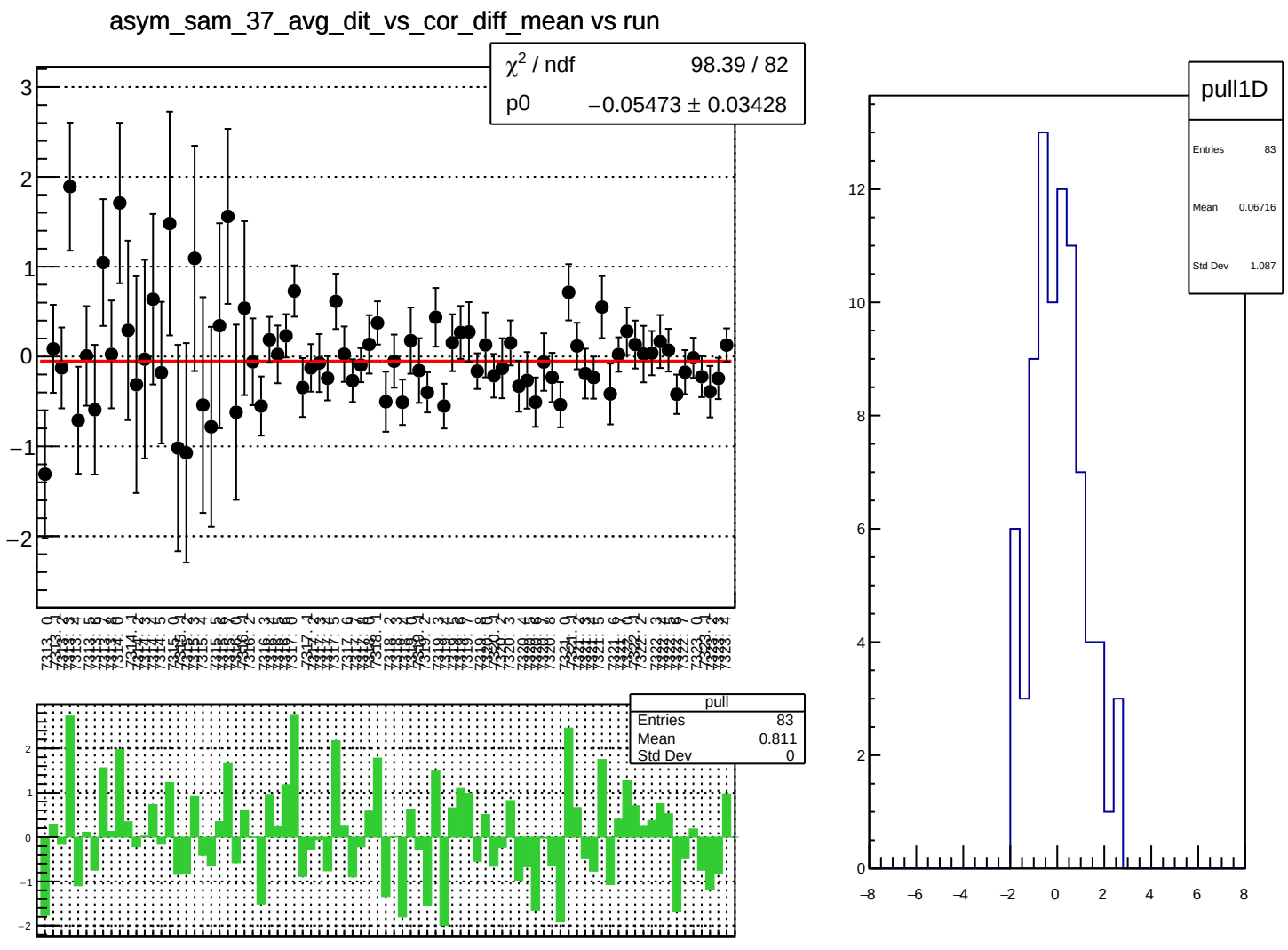

pull1D
Entries 83
Mean −0.02107
Std Dev 0.8518
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

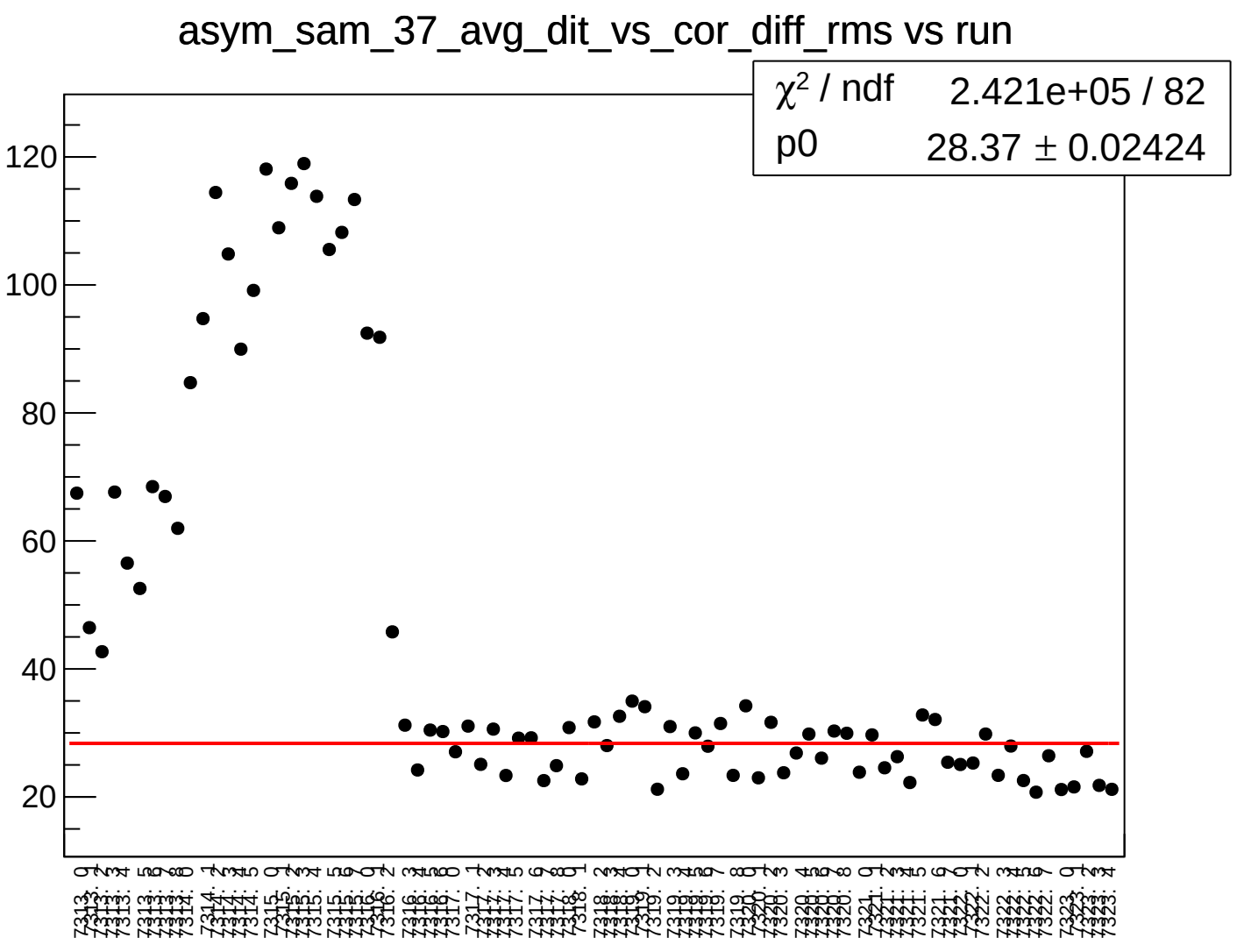

asym_sam_37_avg_rms vs run
χ² / ndf 1.017e+04 / 82
p0 457.6 ± 0.3617
560
540
520
500
480
460
440
420
400
380

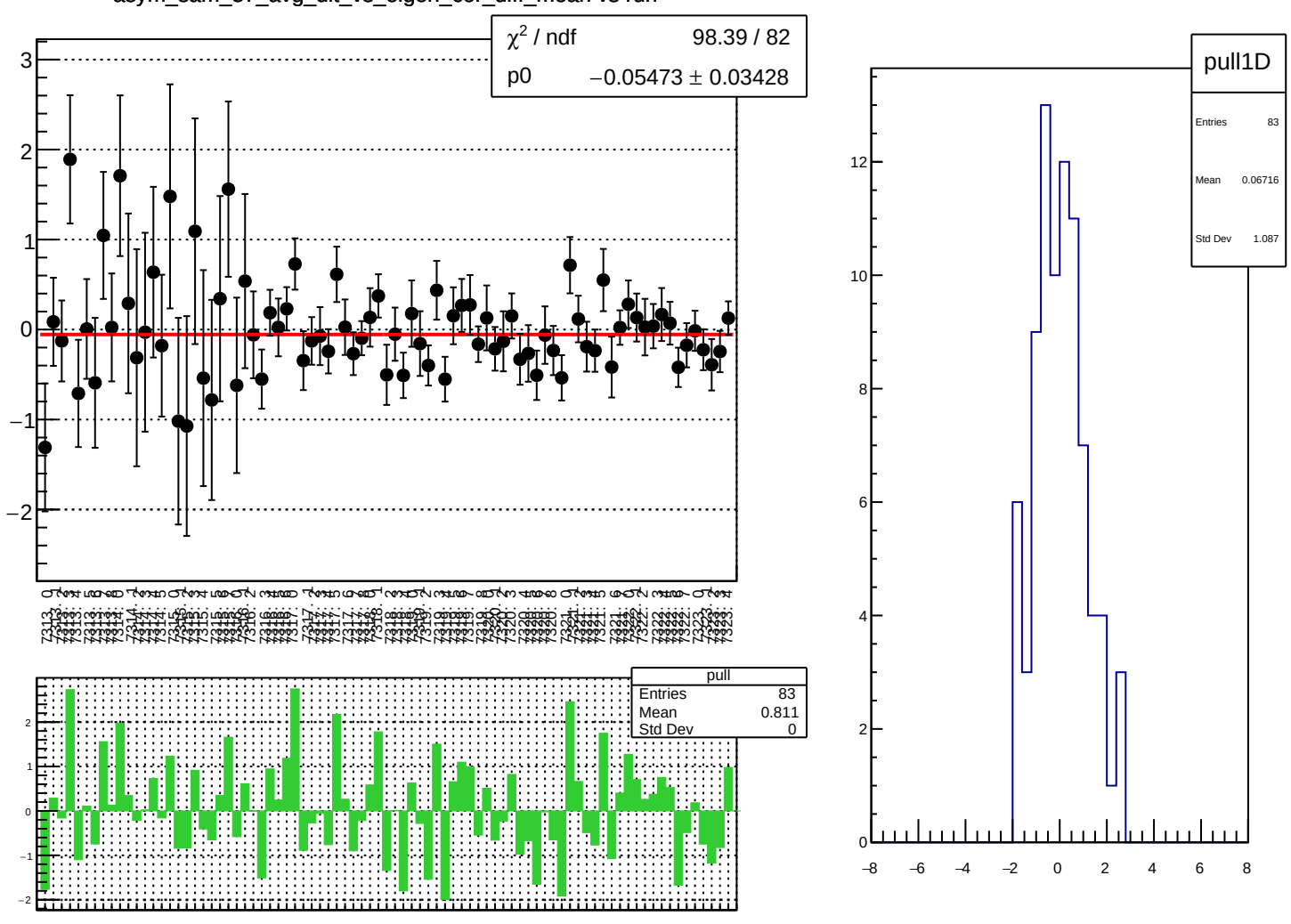

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.44 / 82
p0 5.451e−15 ± 9.117e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 44.46
Std Dev 66.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

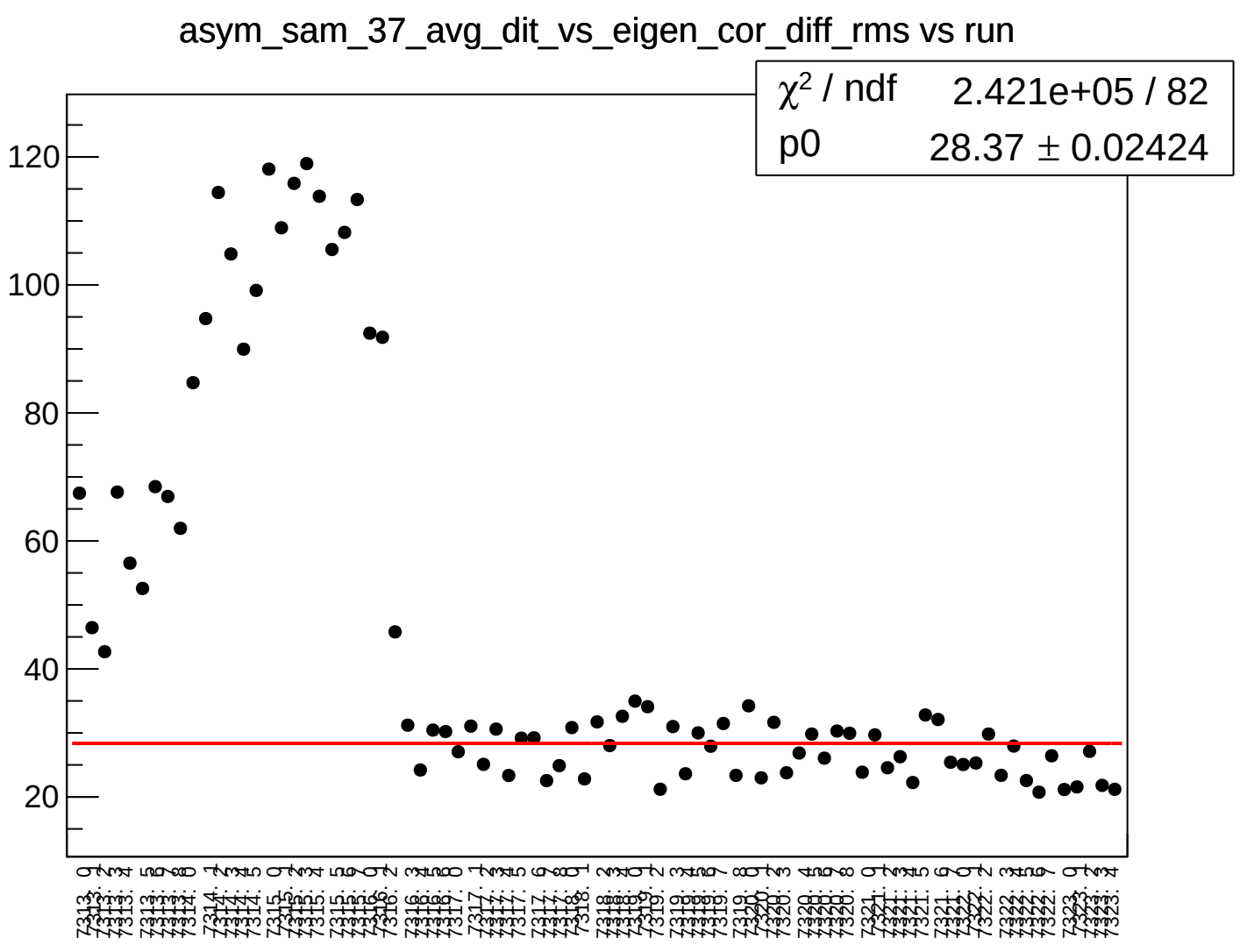

pull1D
Entries 83
Mean 0.01948
Std Dev 0.874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

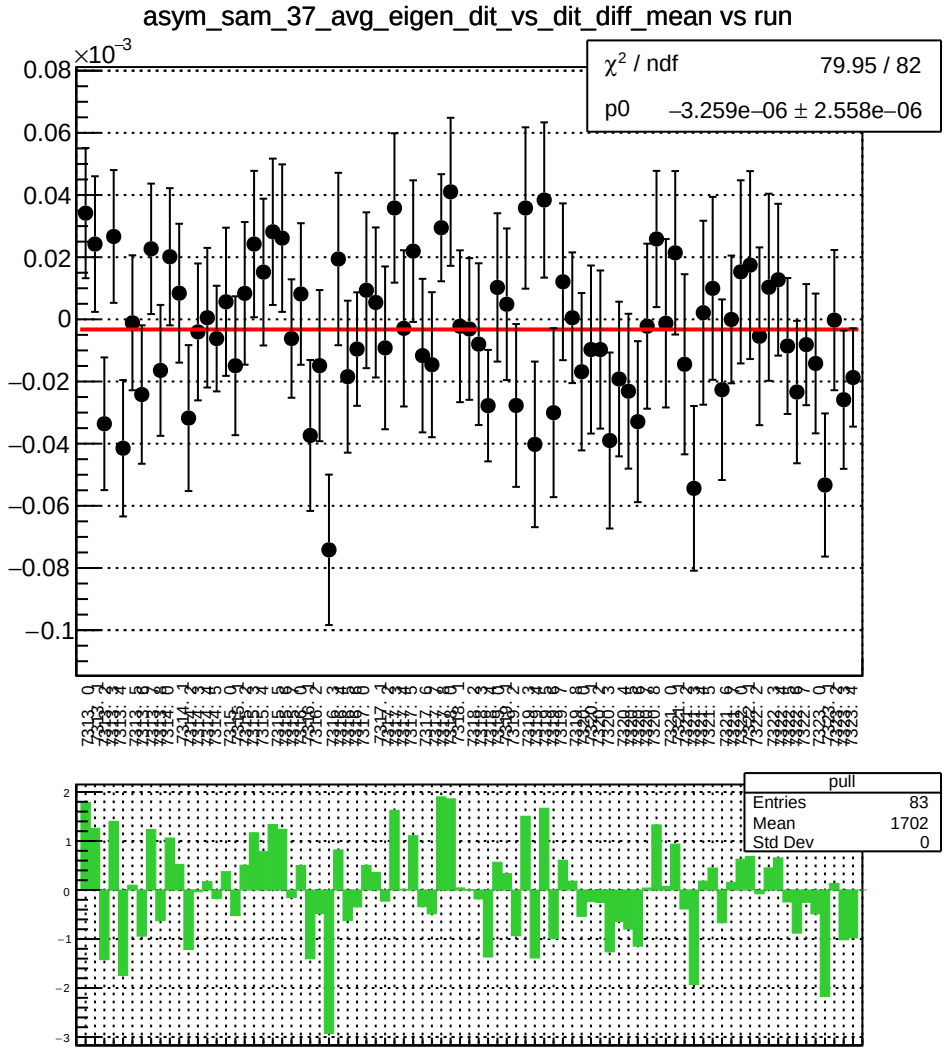

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.455e+06 / 82
p0 2.551e−12 ± 6.447e−15
0.05
0.04
0.03
0.02
0.01
0

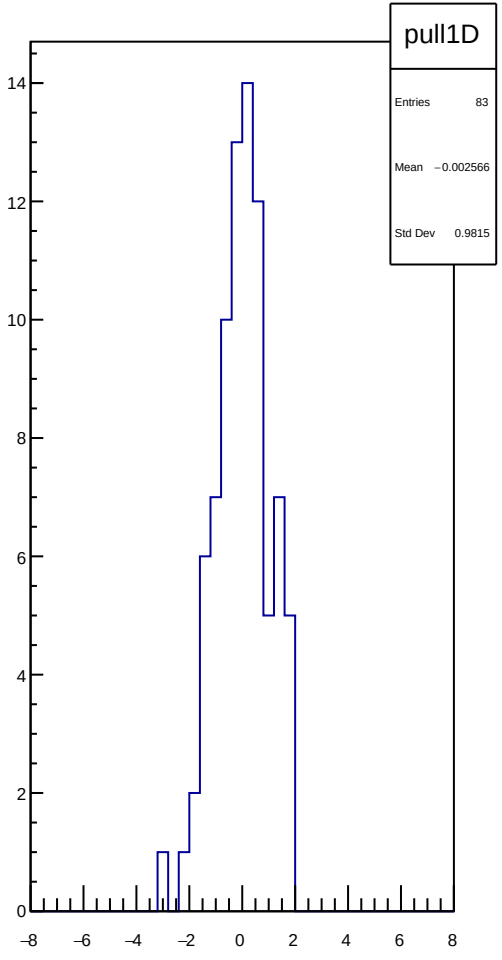

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.39 / 82
p0 −0.05473 ± 0.03428
pull
Entries 83
Mean 0.811
Std Dev 0
pull1D
Entries 83
Mean 0.06716
Std Dev 1.087

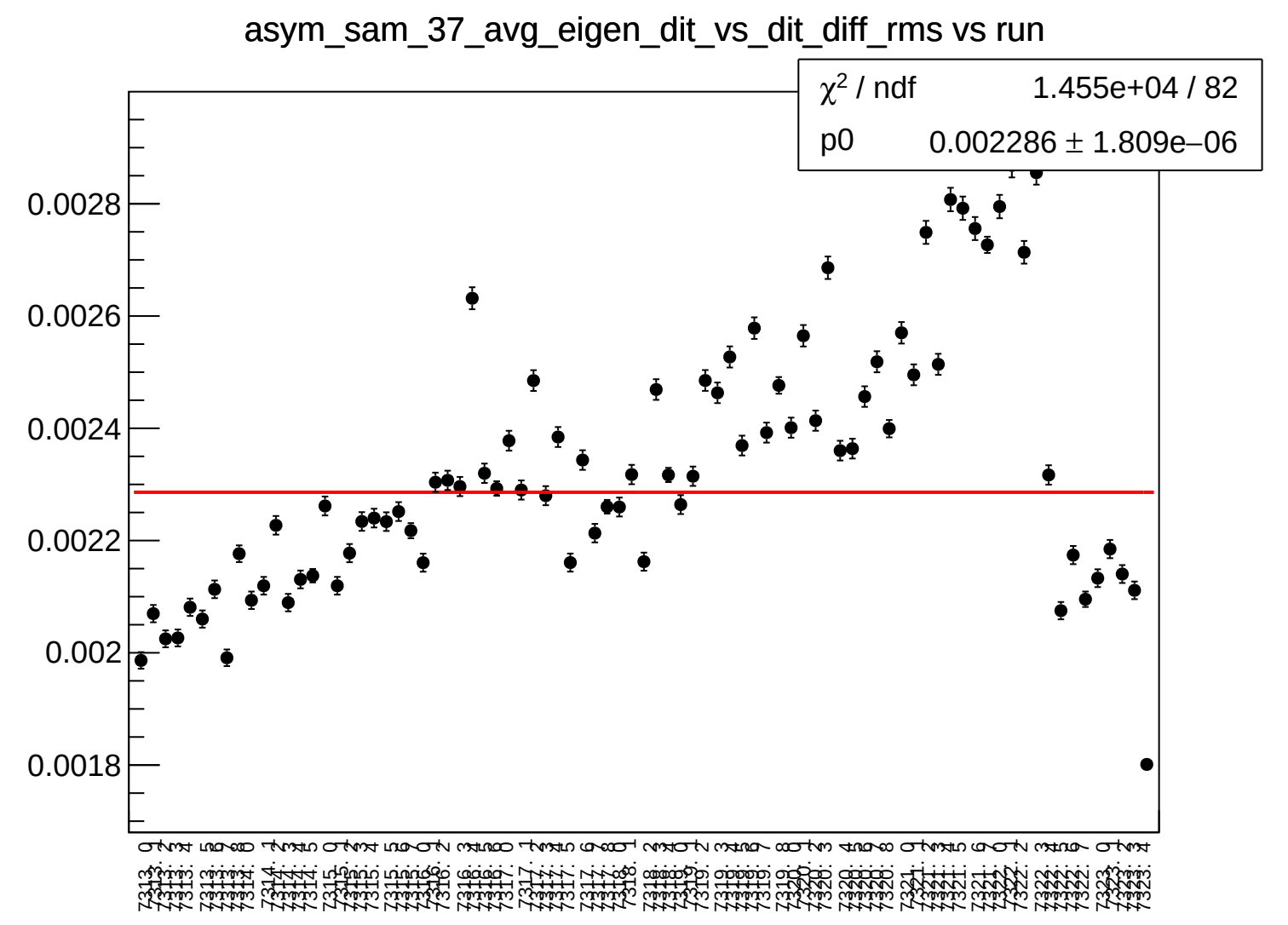

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.421e+05 / 82
p0 28.37 ± 0.02424
120
100
80
60
40
20

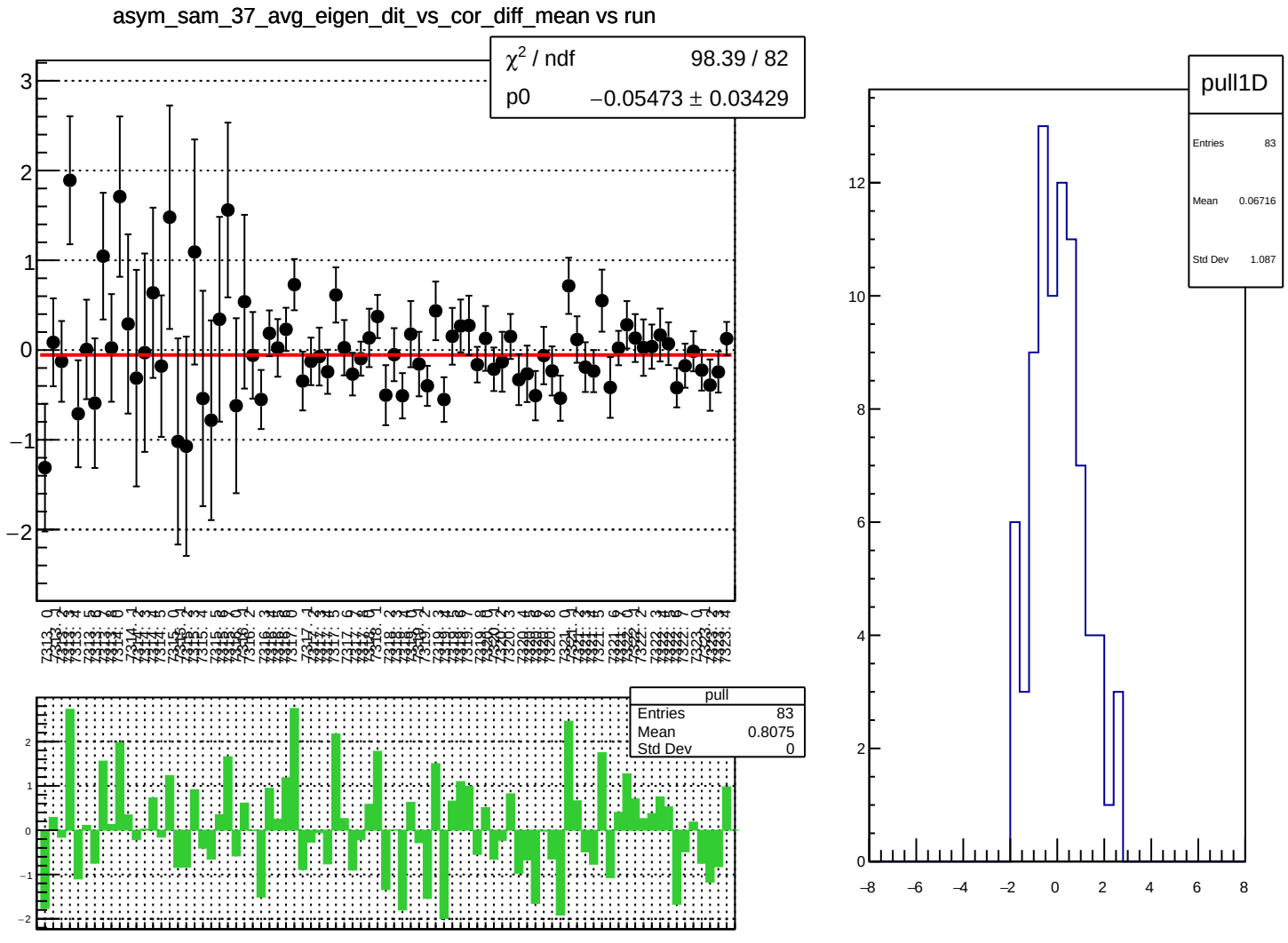

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.39 / 82
p0 −0.05473 ± 0.03428
pull
Entries 83
Mean 0.811
Std Dev 0
pull1D
Entries 83
Mean 0.06716
Std Dev 1.087

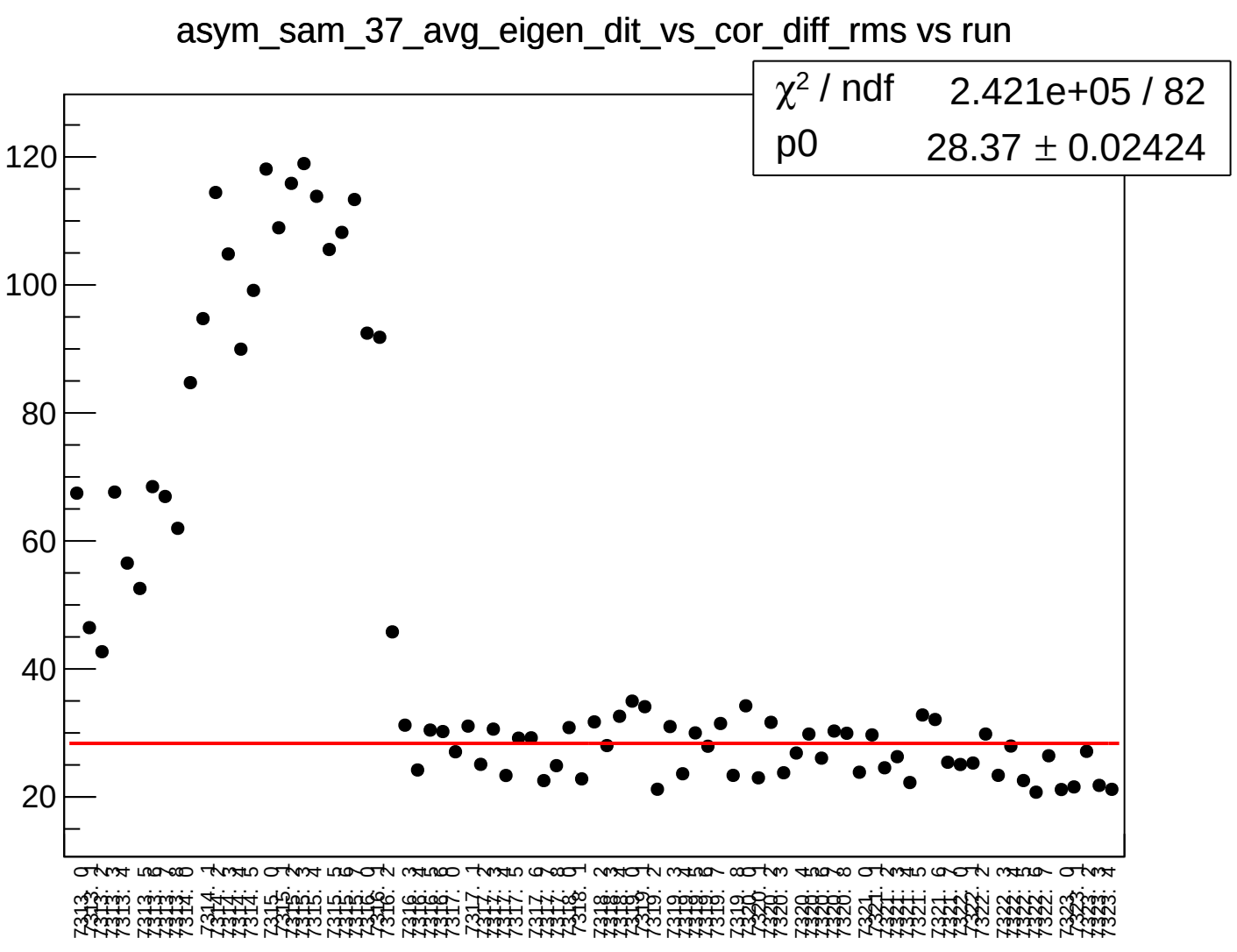

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.421e+05 / 82
p0 28.37 ± 0.02424
120
100
80
60
40
20

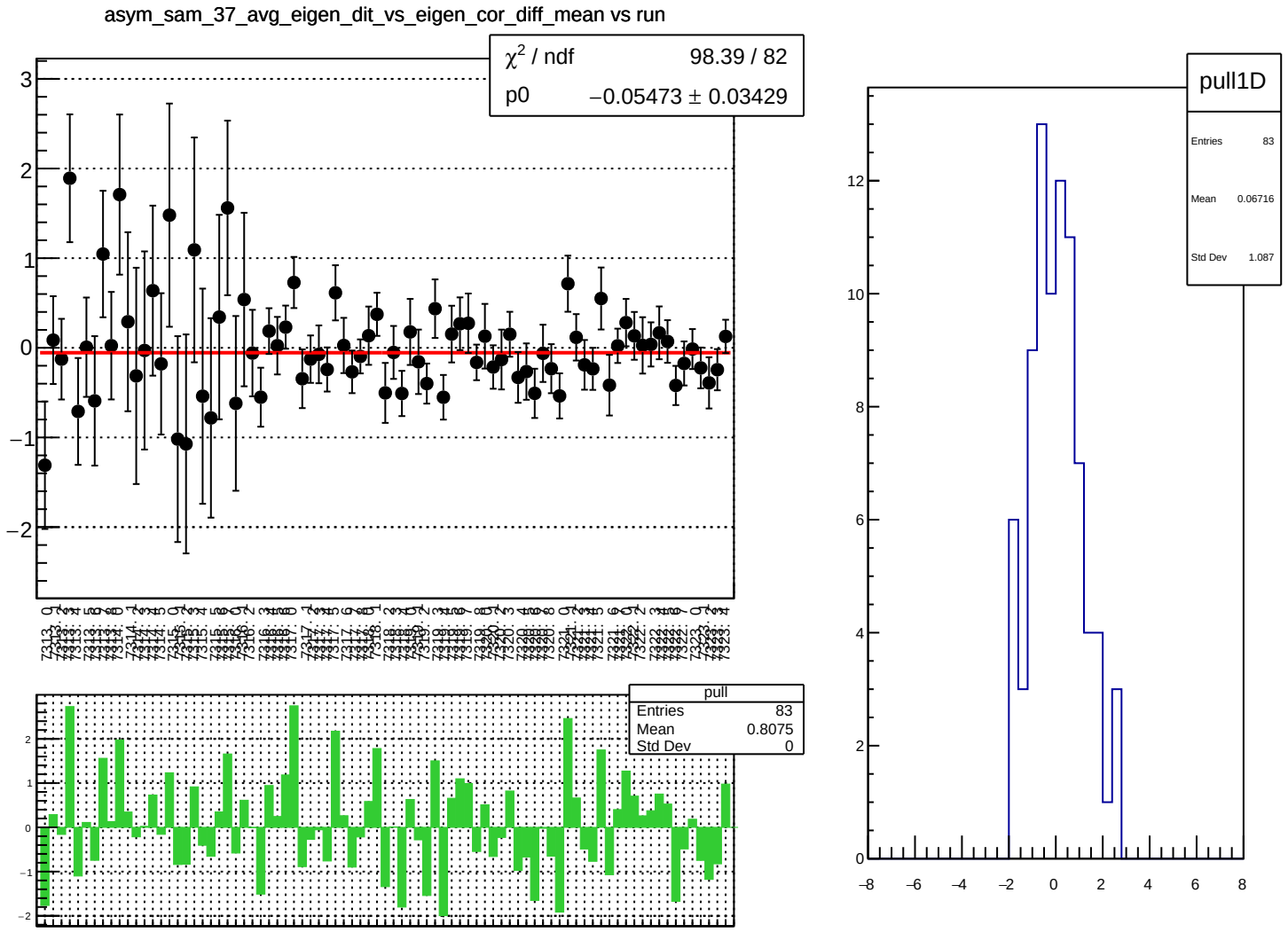

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.95 / 82
p0 −3.259e−06 ± 2.558e−06
pull
Entries 83
Mean 1702
Std Dev 0

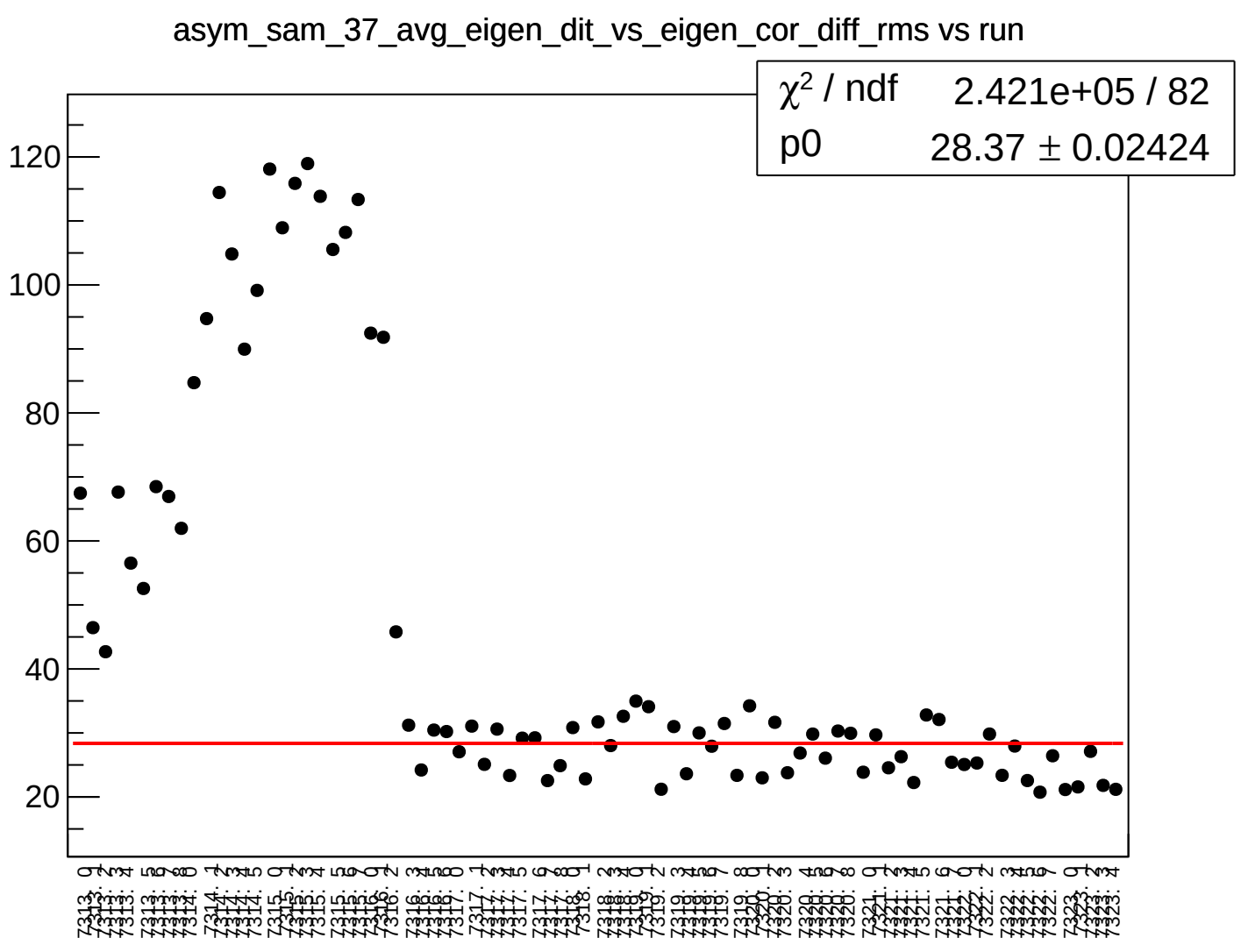

pull1D
Entries 83
Mean −0.002566
Std Dev 0.9815

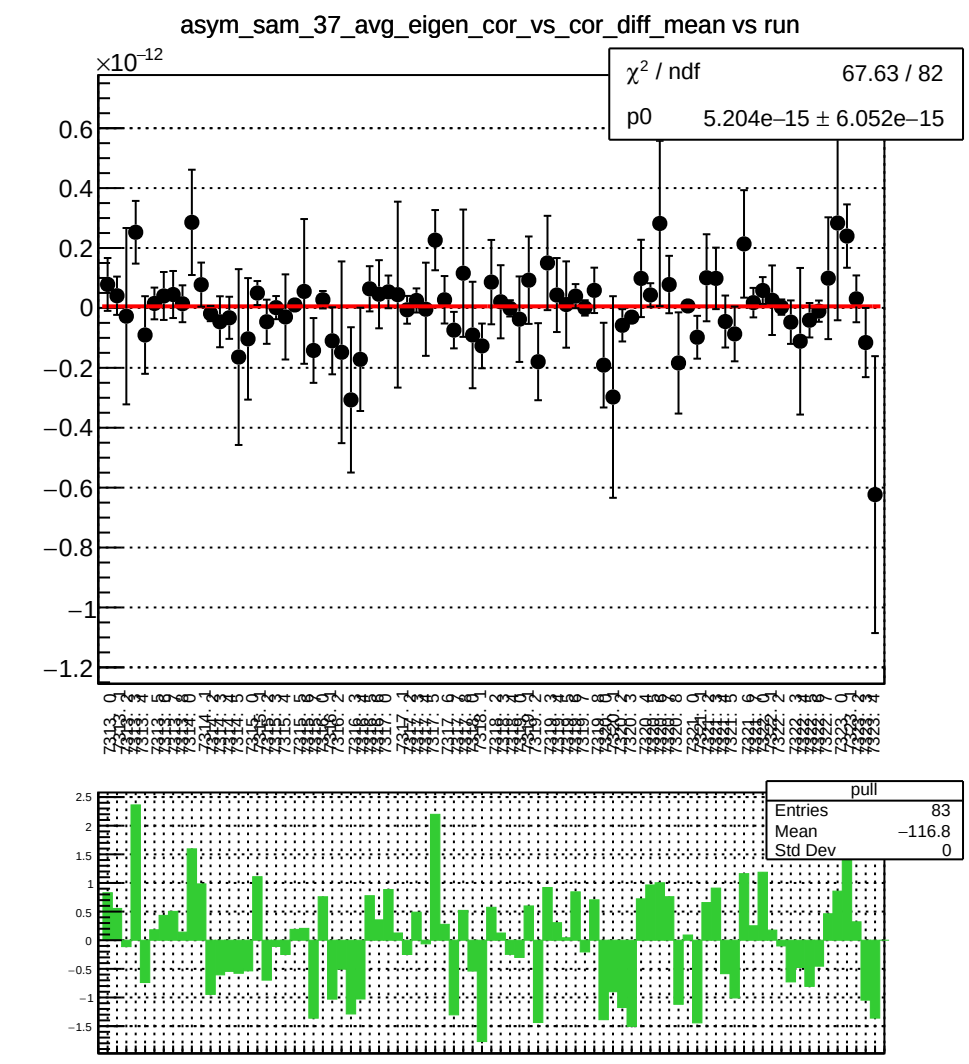

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.455e+04 / 82
p0 0.002286 ± 1.809e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

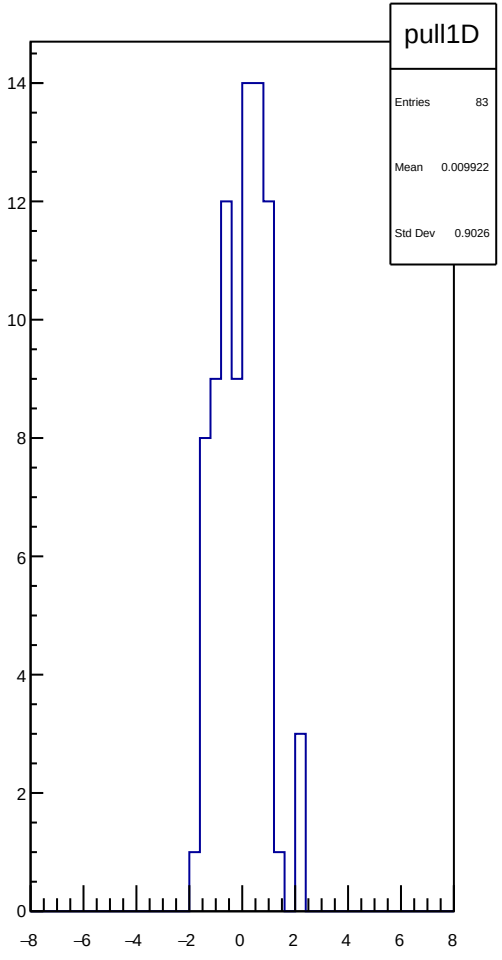

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.39 / 82
p0 −0.05473 ± 0.03429
pull
Entries 83
Mean 0.8075
Std Dev 0
pull1D
Entries 83
Mean 0.06716
Std Dev 1.087

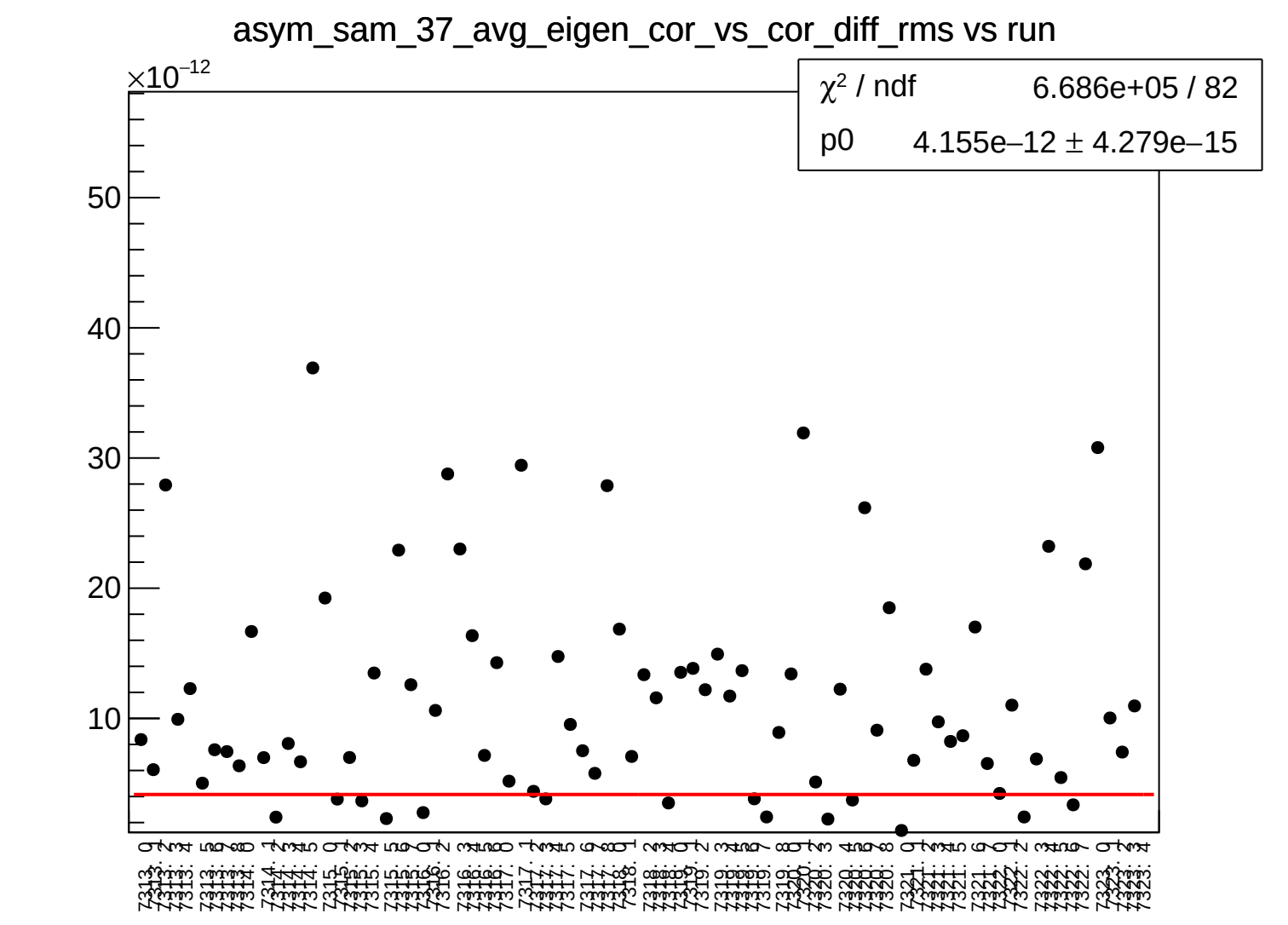

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.421e+05 / 82
p0 28.37 ± 0.02424
120
100
80
60
40
20

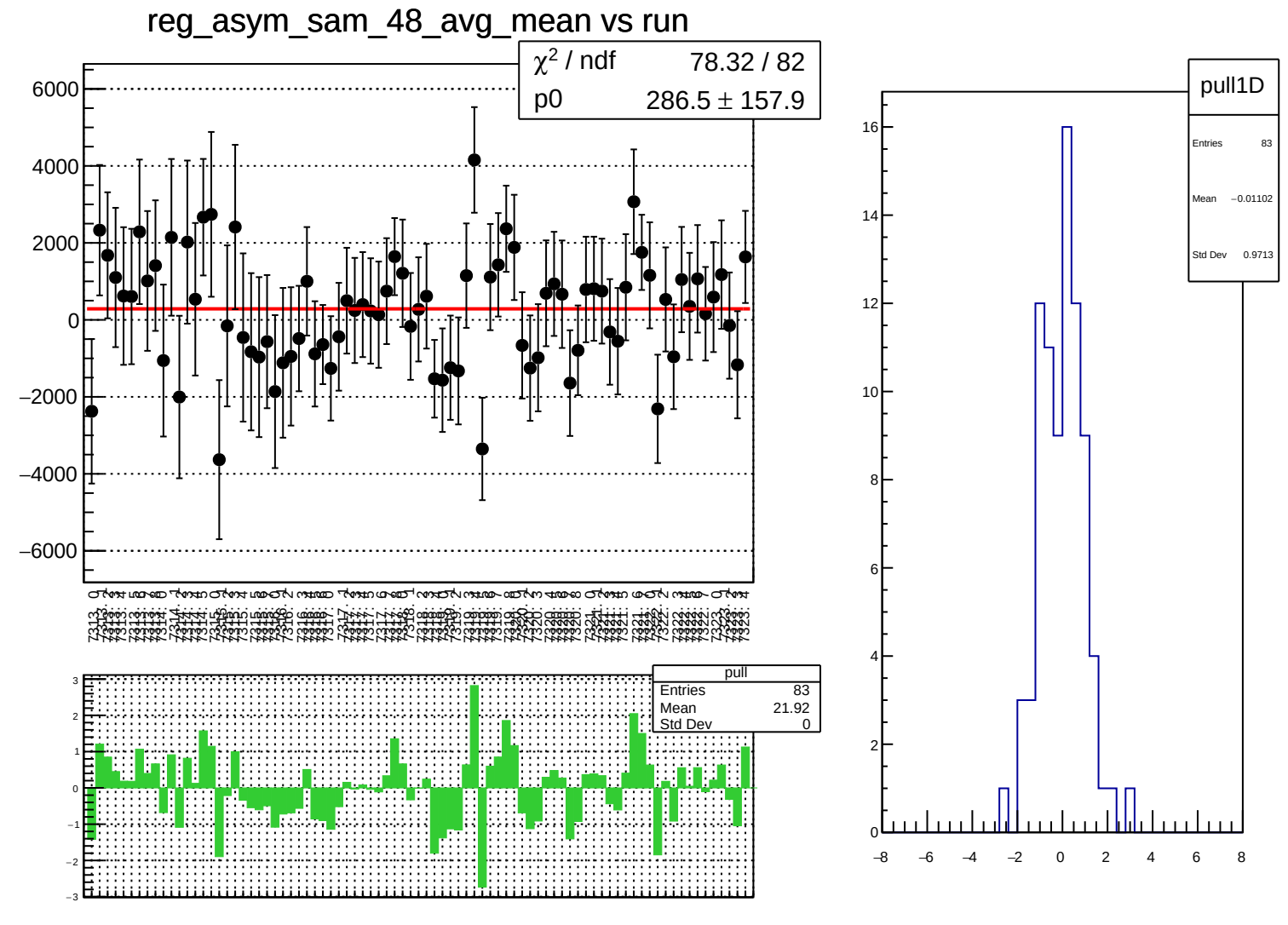

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.39 / 82
p0 −0.05473 ± 0.03429
pull
Entries 83
Mean 0.8075
Std Dev 0
pull1D
Entries 83
Mean 0.06716
Std Dev 1.087

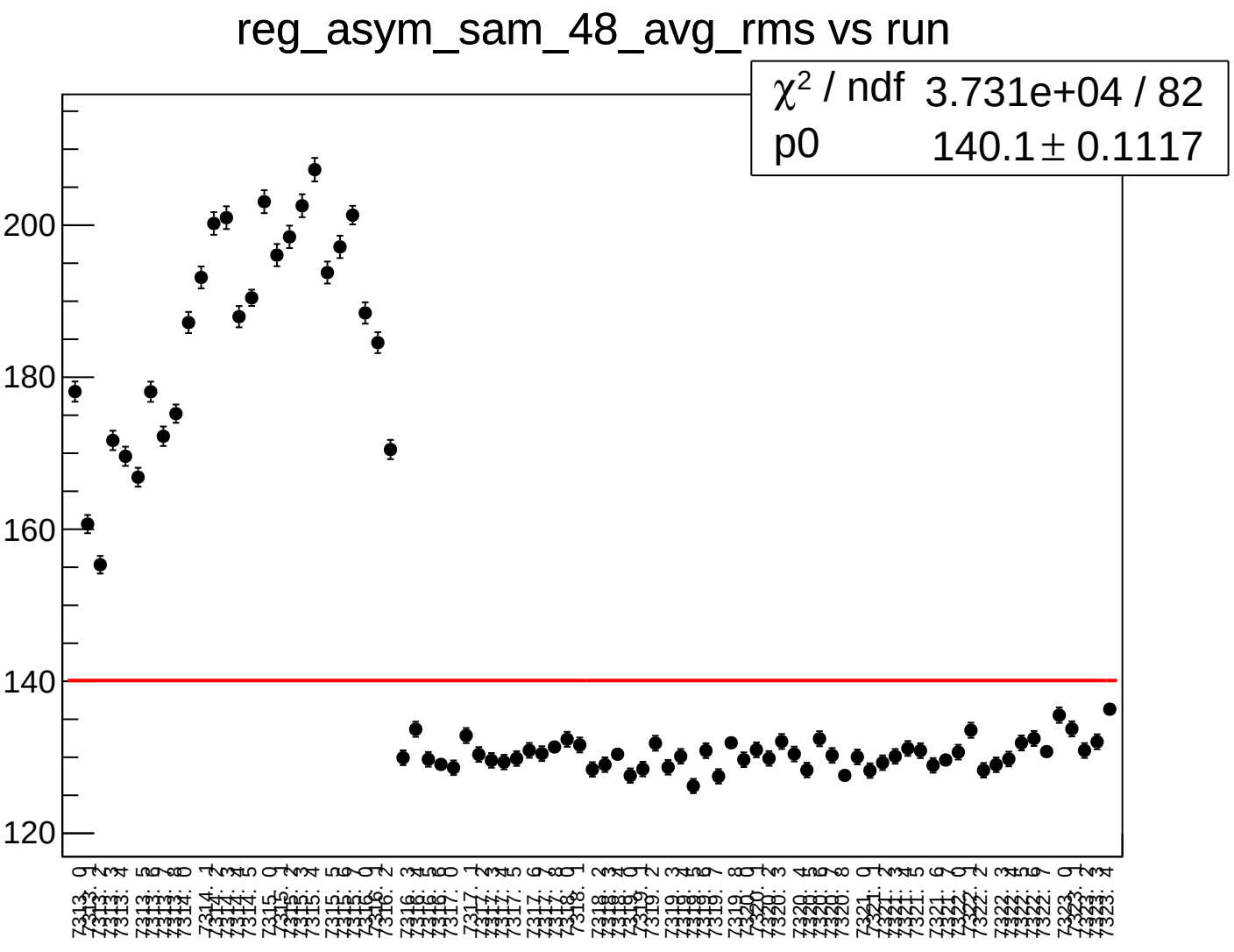

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.421e+05 / 82
p0 28.37 ± 0.02424
120
100
80
60
40
20

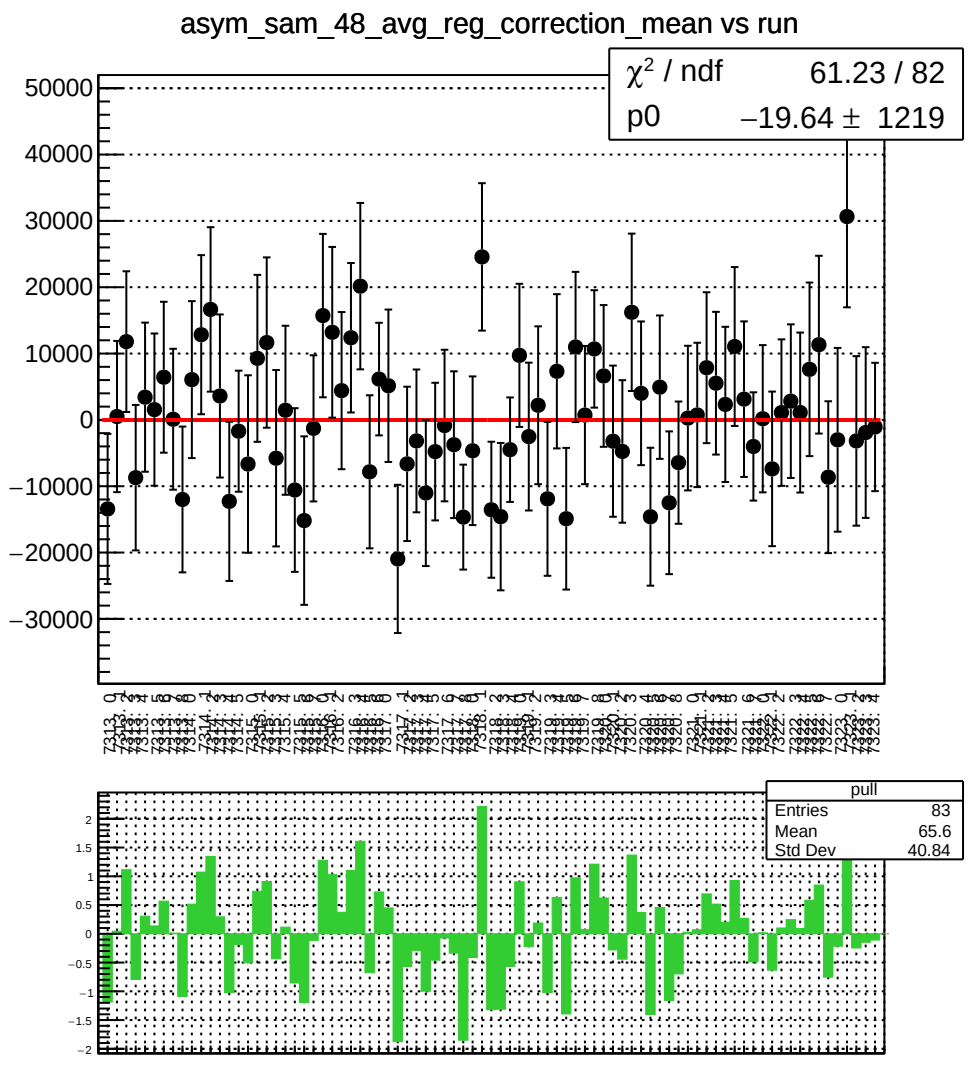

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.63 / 82
p0 5.204e−15 ± 6.052e−15
pull
Entries 83
Mean −116.8
Std Dev 0

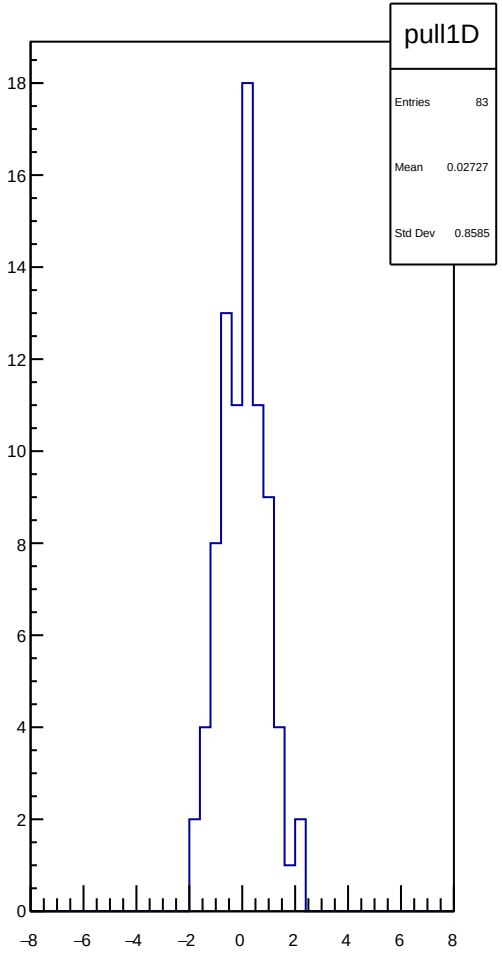

pull1D
Entries 83
Mean 0.009922
Std Dev 0.9026

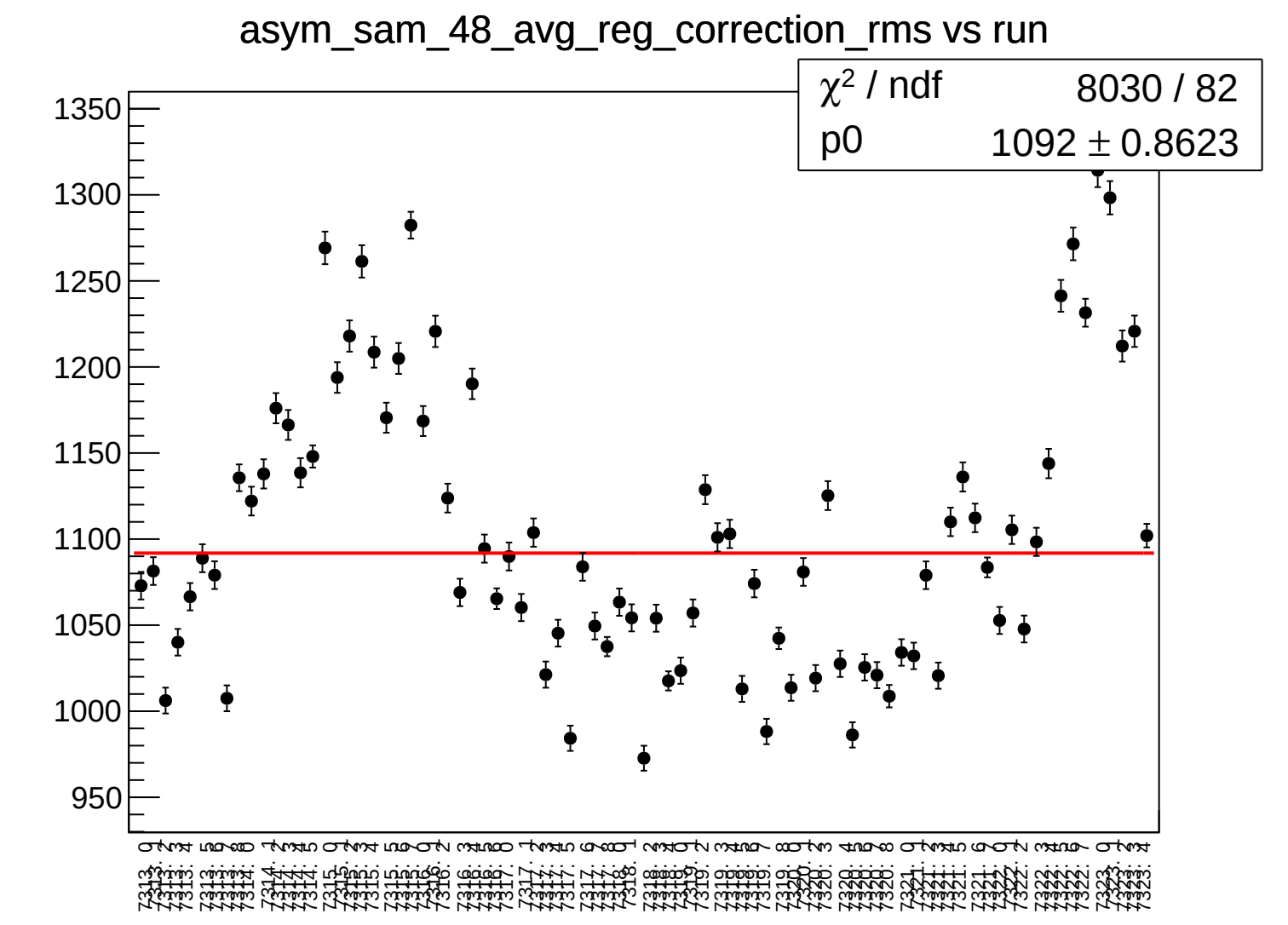

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.686e+05 / 82
p0 4.155e−12 ± 4.279e−15
50
40
30
20
10

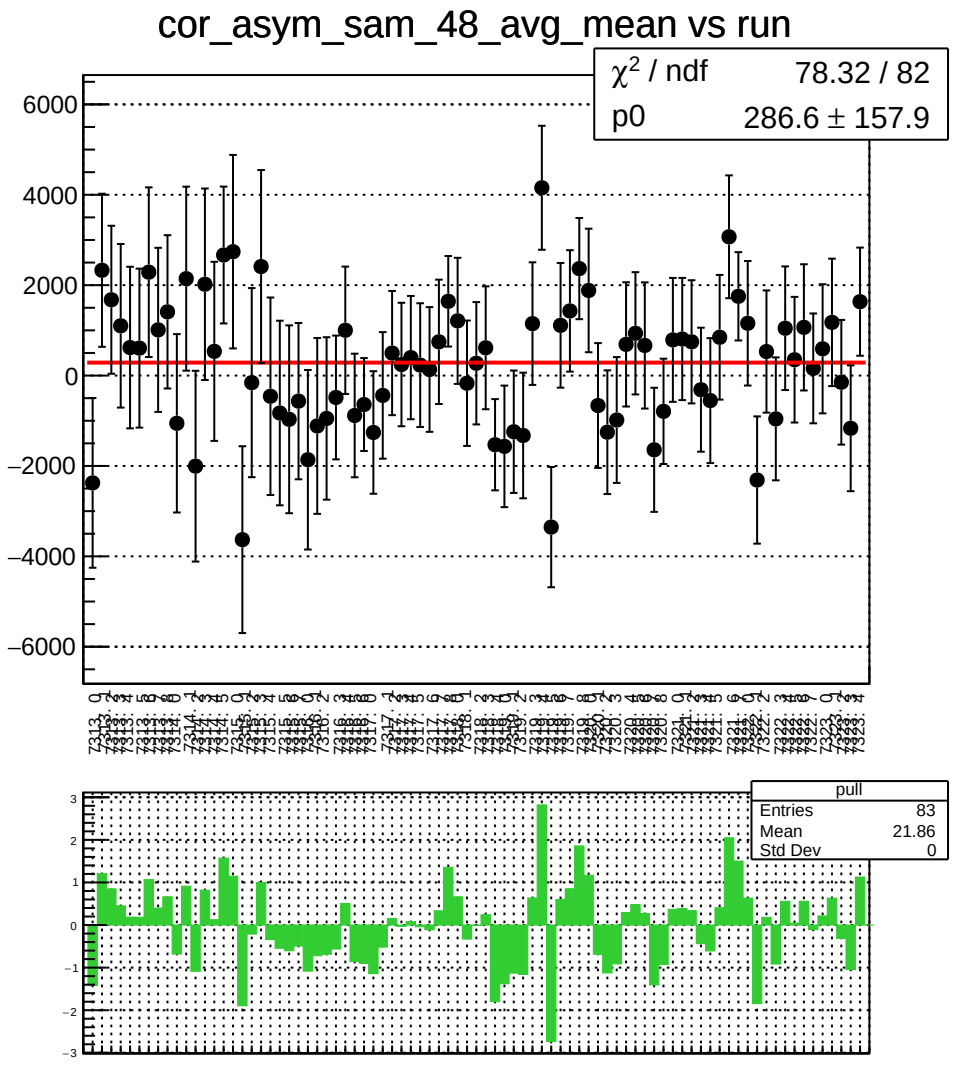

reg_asym_sam_48_avg_mean vs run
χ² / ndf 78.32 / 82
p0 286.5 ± 157.9
pull
Entries 83
Mean 21.92
Std Dev 0
pull1D
Entries 83
Mean −0.01102
Std Dev 0.9713

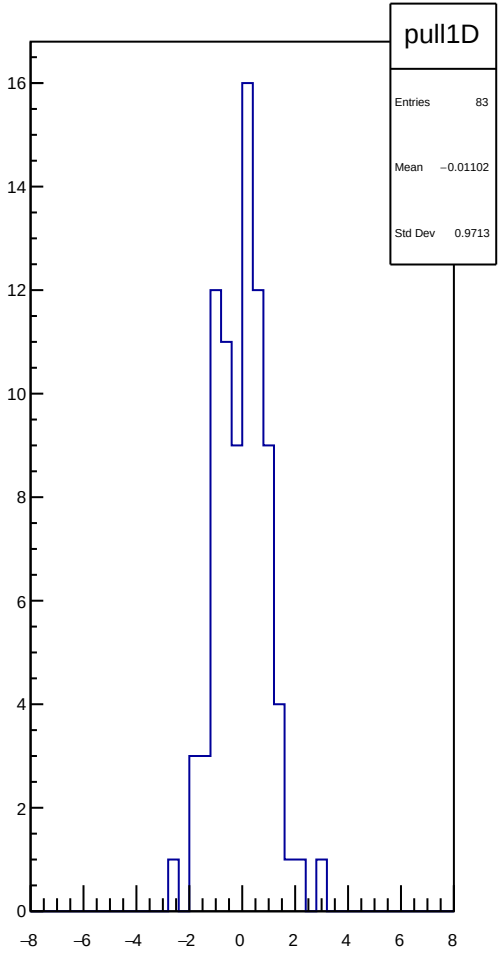

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.731e+04 / 82
p0 140.1 ± 0.1117
200
180
160
140
120

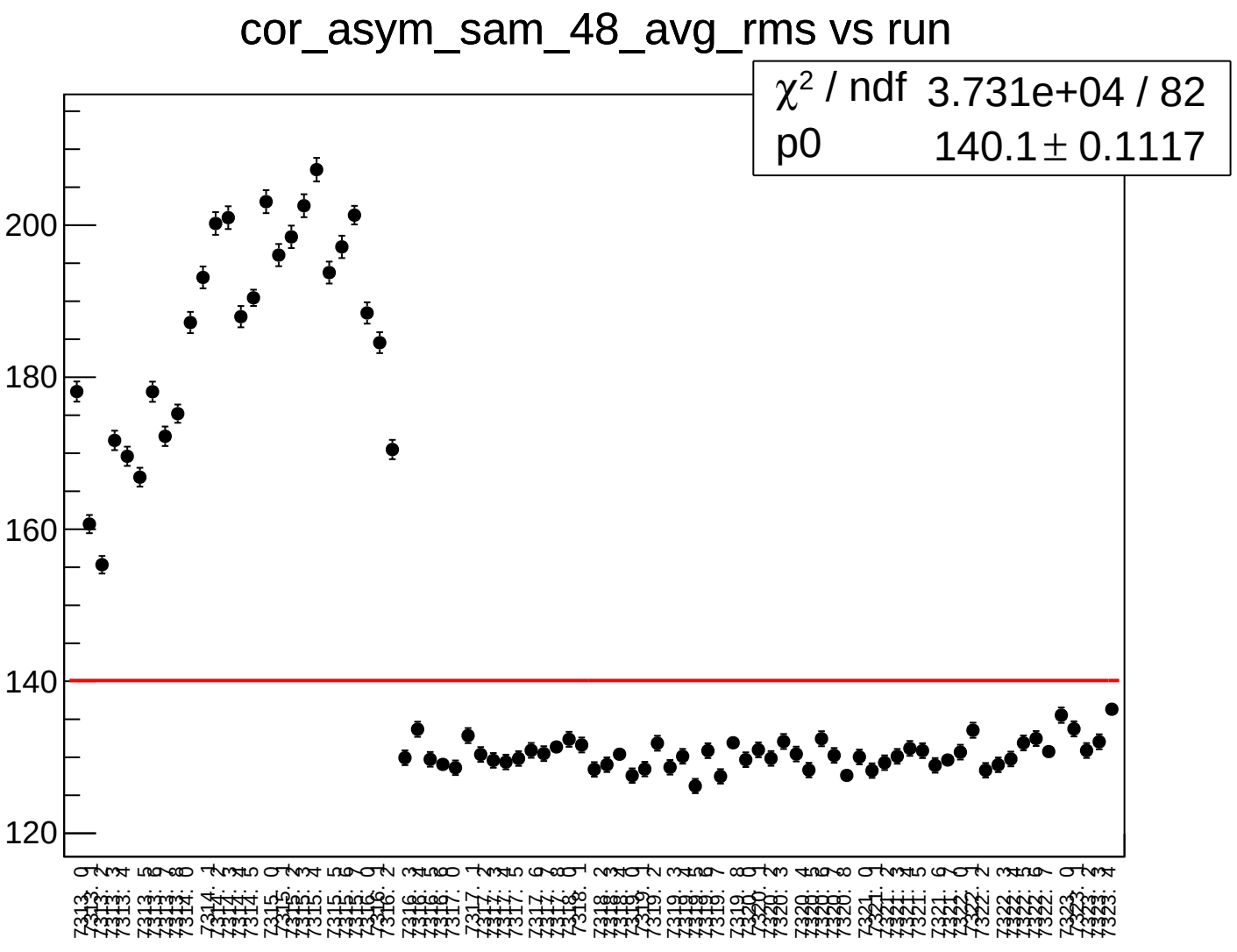

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 61.23 / 82
p0 −19.64 ± 1219
pull
Entries 83
Mean 65.6
Std Dev 40.84

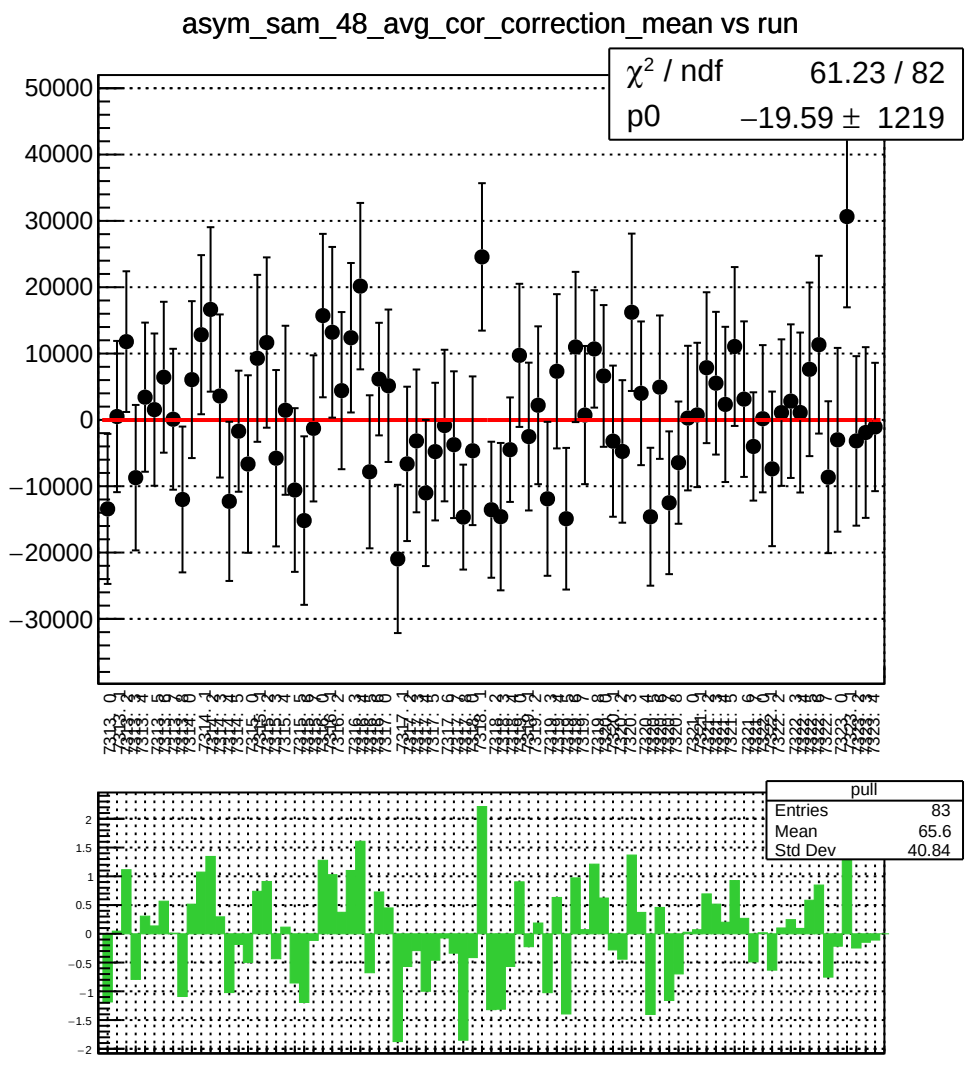

pull1D
Entries 83
Mean 0.02727
Std Dev 0.8585

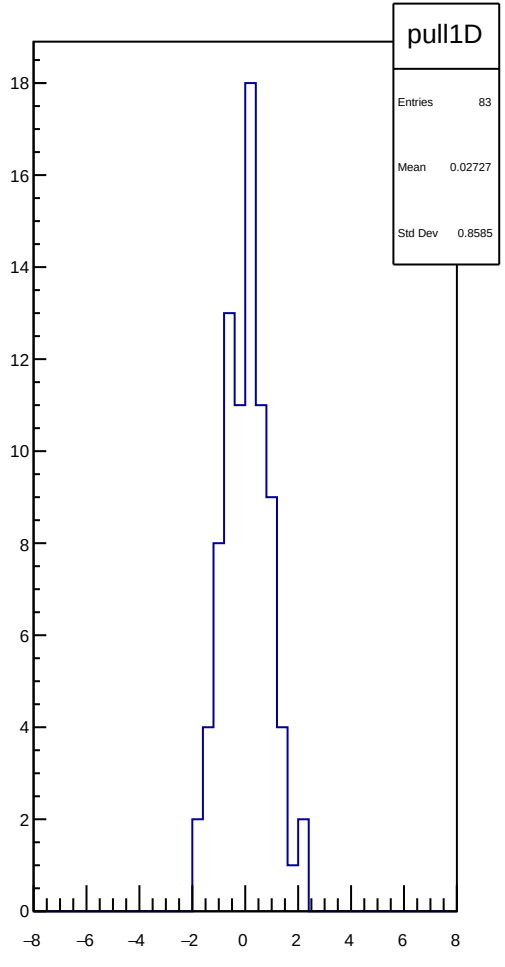

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8030 / 82
p0 1092 ± 0.8623
1350
1300
1250
1200
1150
1100
1050
1000
950

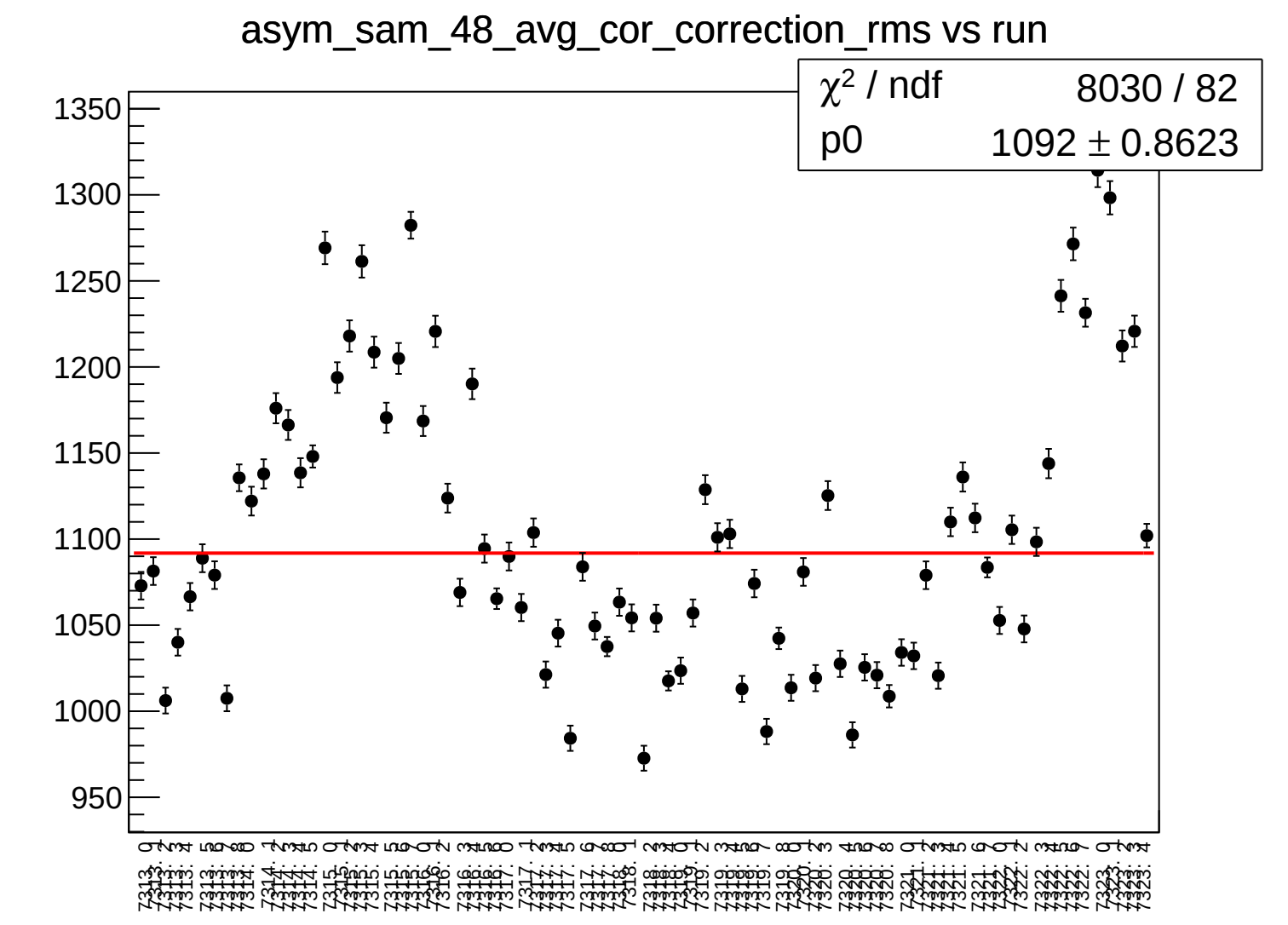

cor_asym_sam_48_avg_mean vs run
χ² / ndf 78.32 / 82
p0 286.6 ± 157.9
pull
Entries 83
Mean 21.86
Std Dev 0

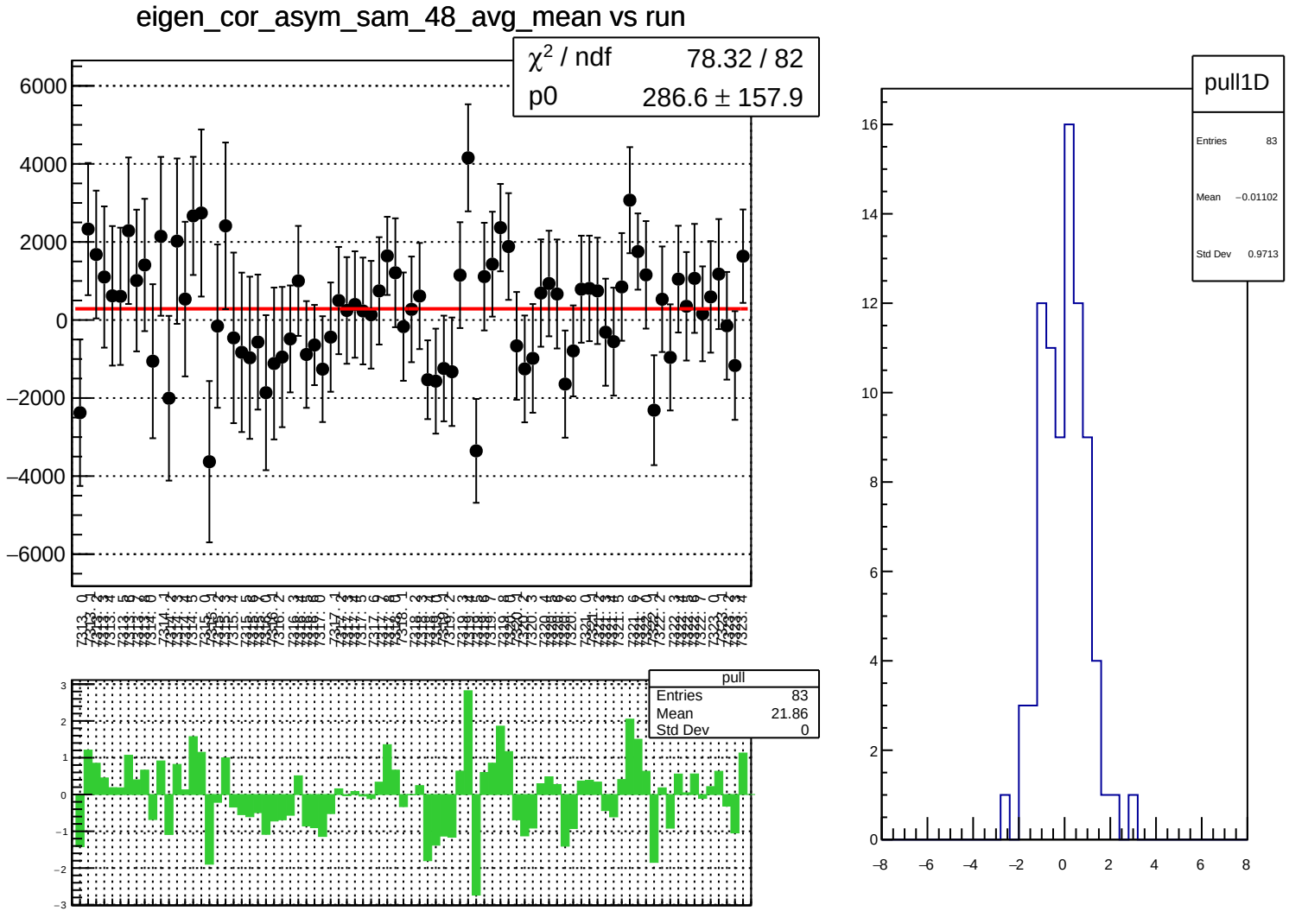

pull1D
Entries 83
Mean −0.01102
Std Dev 0.9713

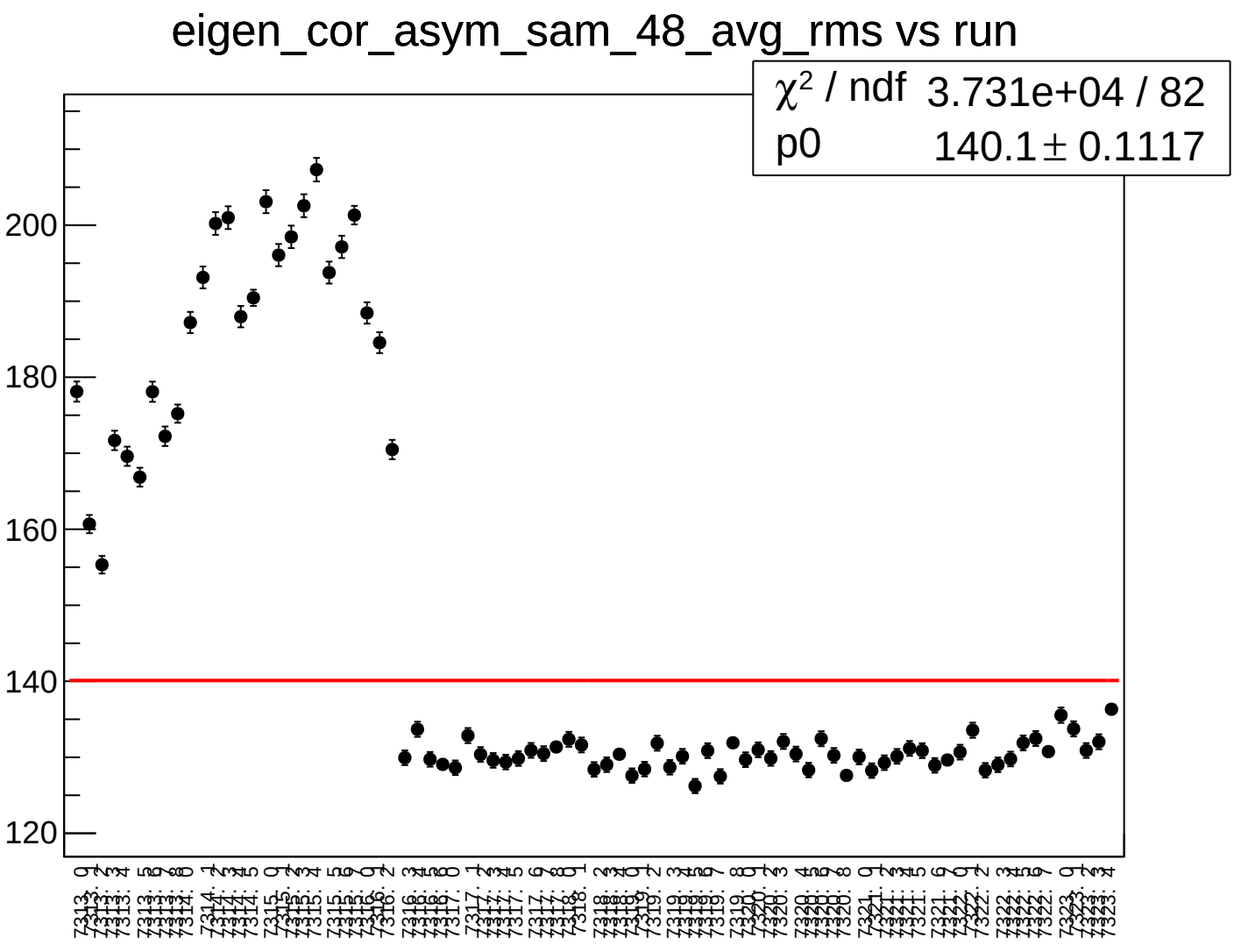

cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.731e+04 / 82
p0 140.1 ± 0.1117
200
180
160
140
120

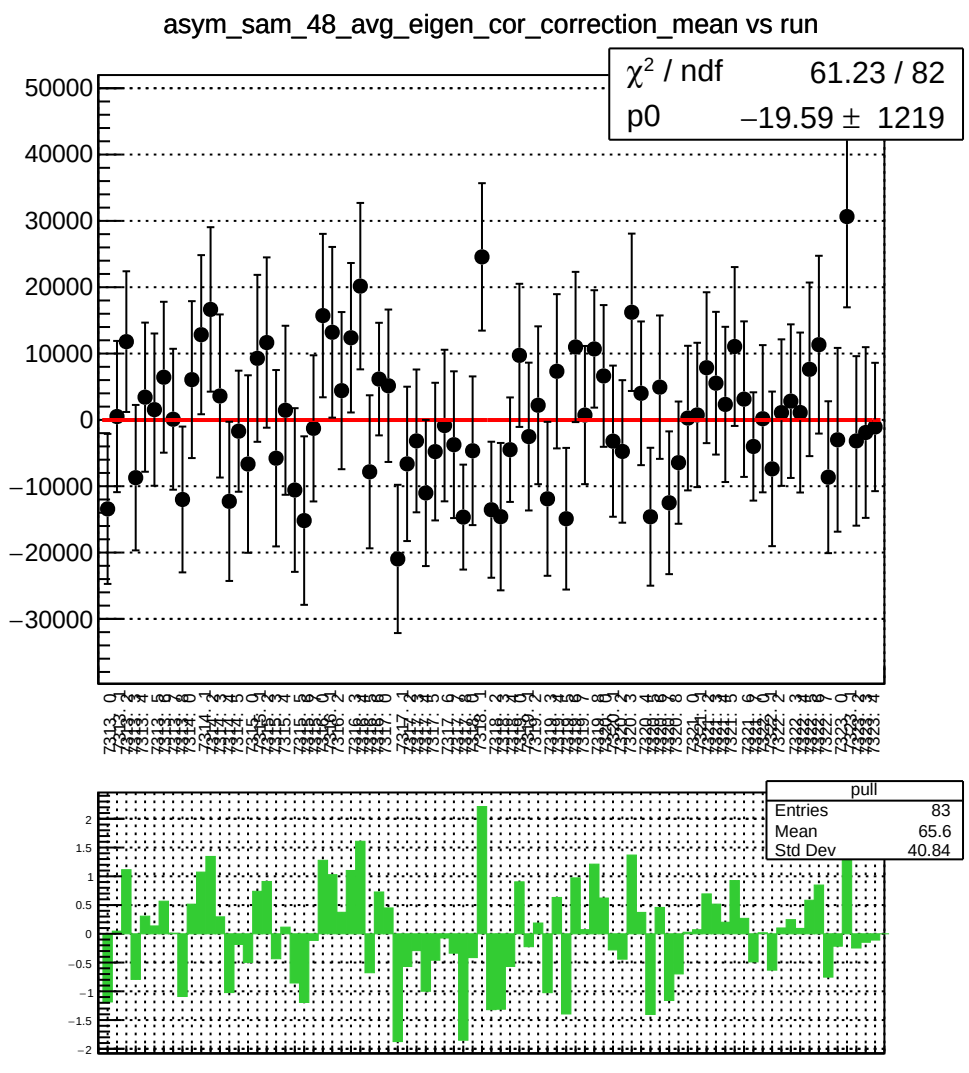

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 61.23 / 82
p0 −19.59 ± 1219
pull
Entries 83
Mean 65.6
Std Dev 40.84

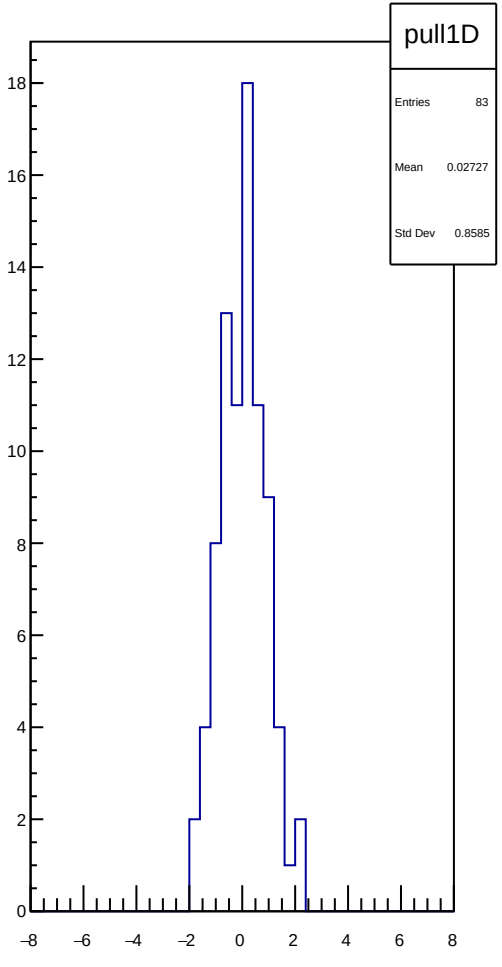

pull1D
Entries 83
Mean 0.02727
Std Dev 0.8585

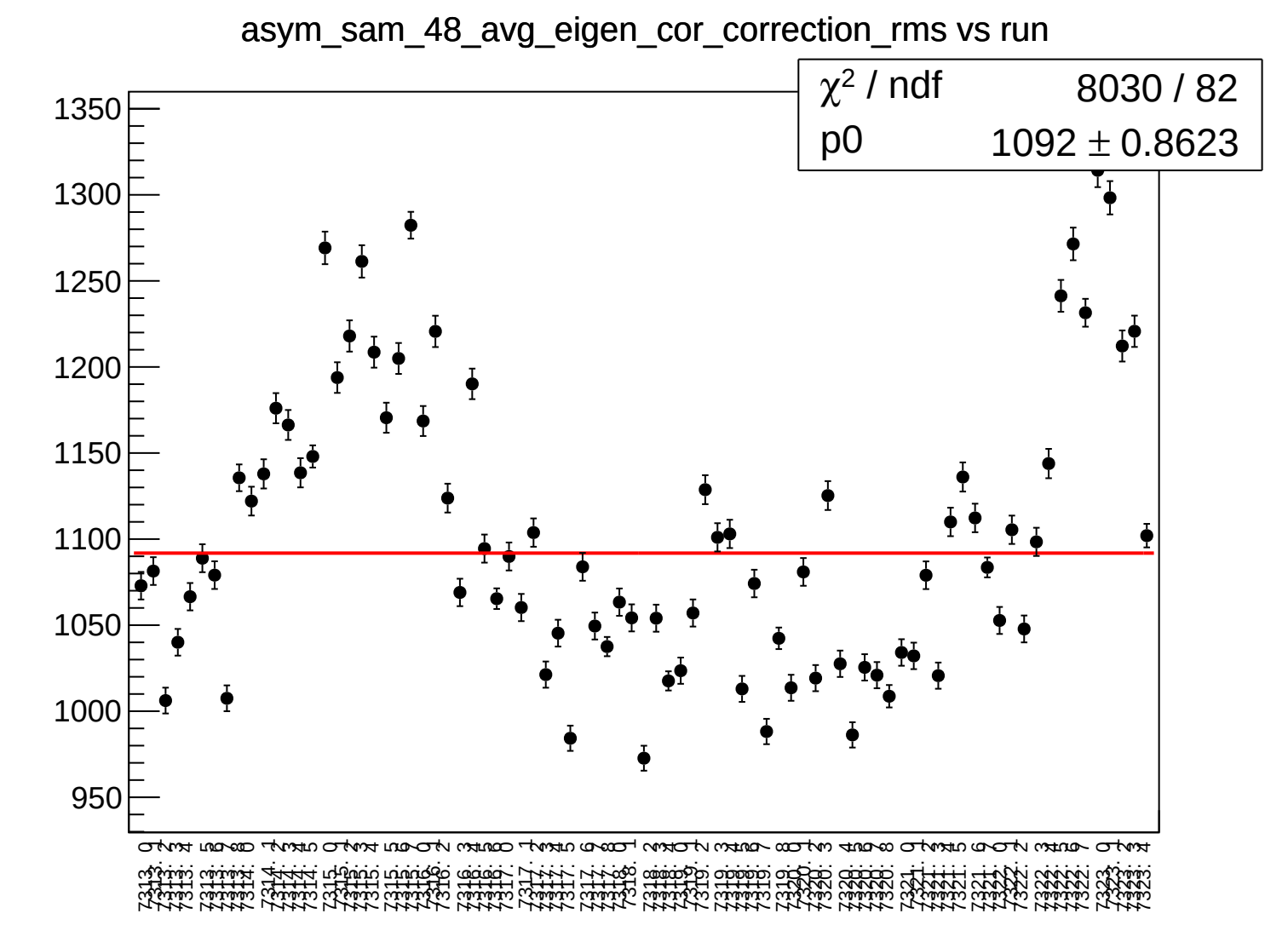

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8030 / 82
p0 1092 ± 0.8623
1350
1300
1250
1200
1150
1100
1050
1000
950

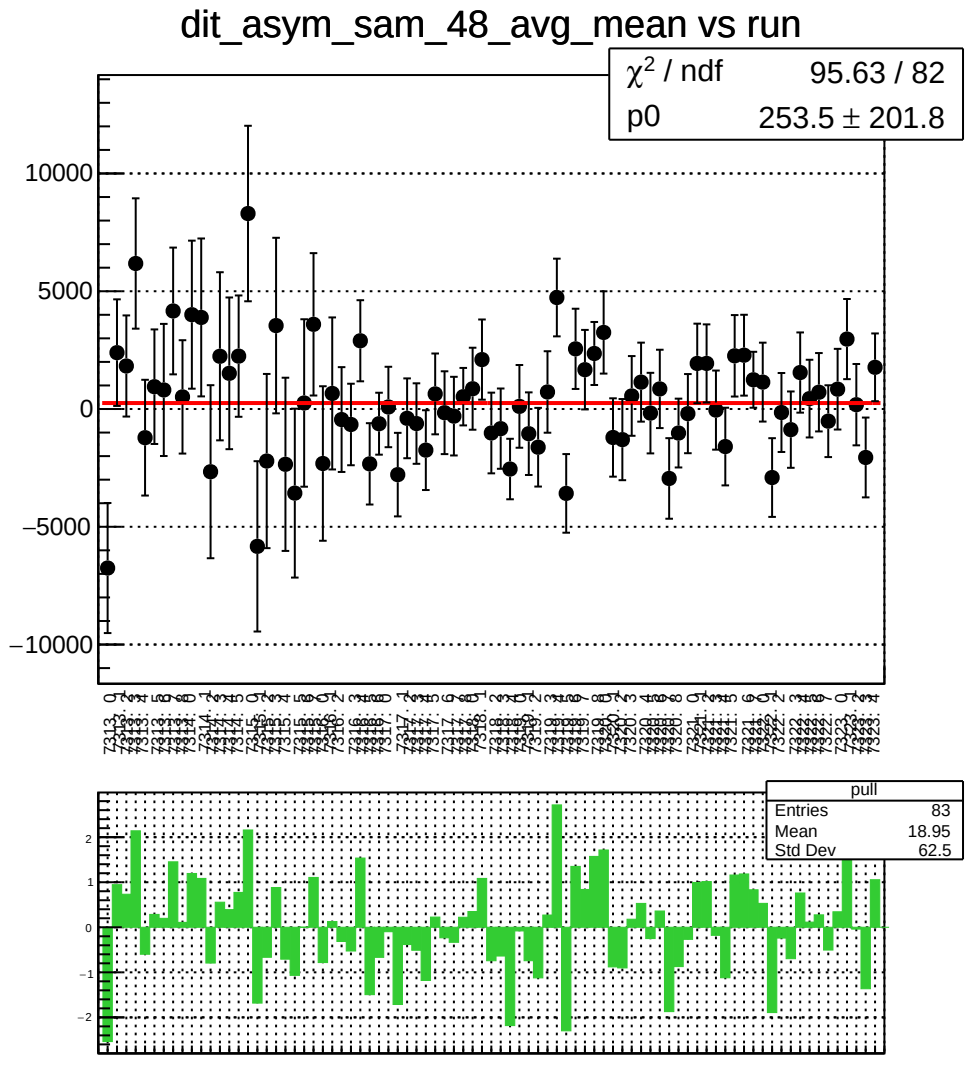

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 78.32 / 82
p0 286.6 ± 157.9
pull
Entries 83
Mean 21.86
Std Dev 0
pull1D
Entries 83
Mean −0.01102
Std Dev 0.9713

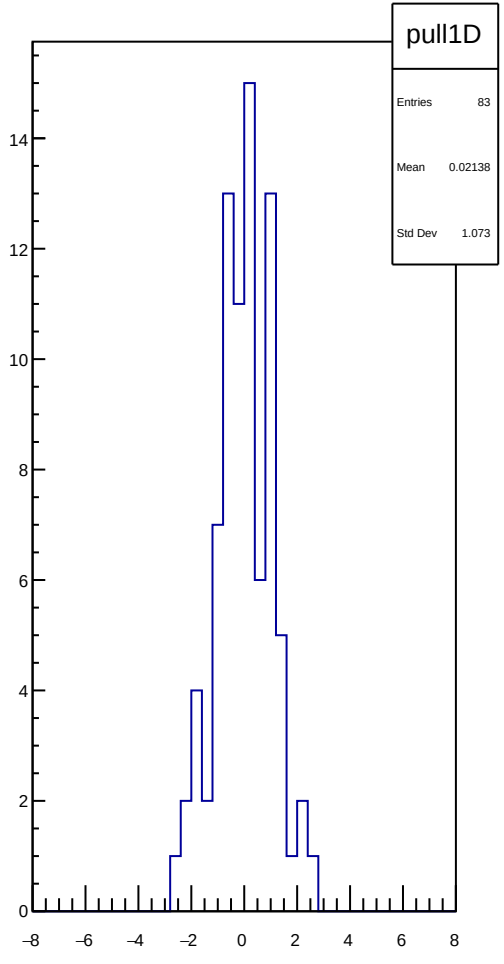

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.731e+04 / 82
p0 140.1 ± 0.1117
200
180
160
140
120

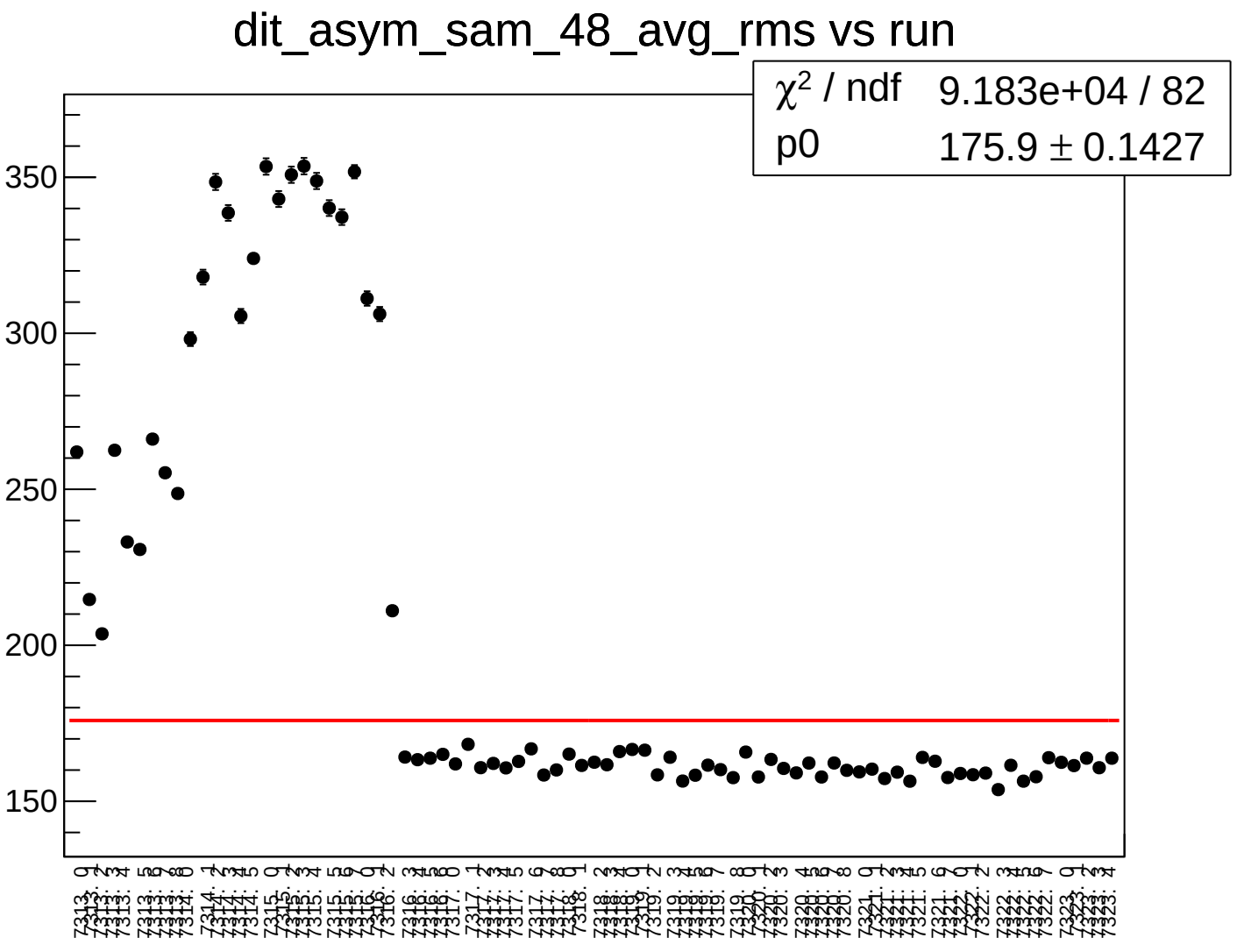

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.23 / 82
p0 −19.59 ± 1219
pull
Entries 83
Mean 65.6
Std Dev 40.84

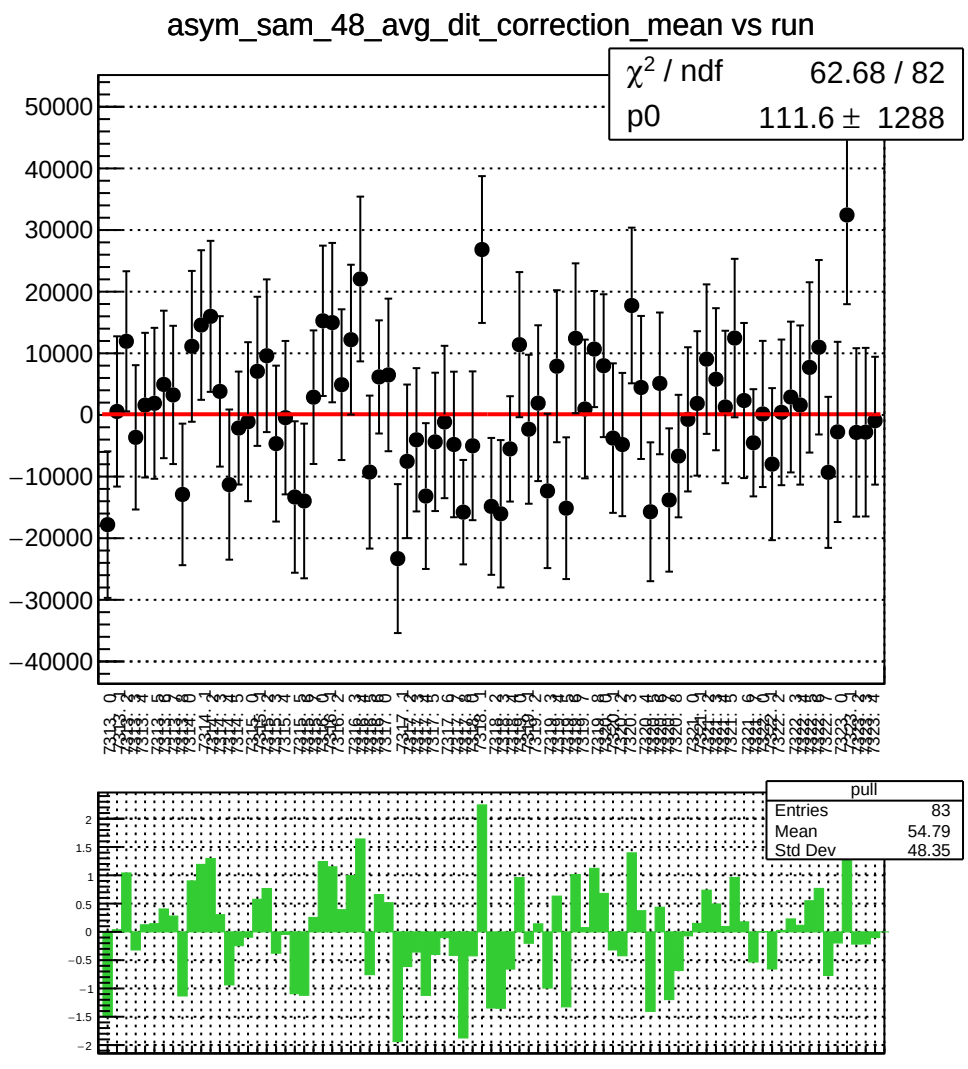

pull1D
Entries 83
Mean 0.02727
Std Dev 0.8585

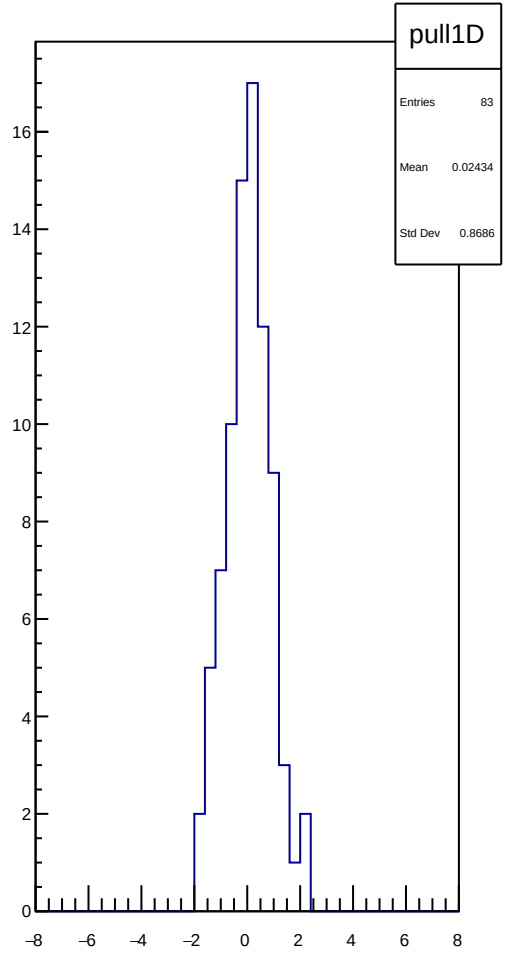

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 8030 / 82
p0 1092 ± 0.8623
1350
1300
1250
1200
1150
1100
1050
1000
950

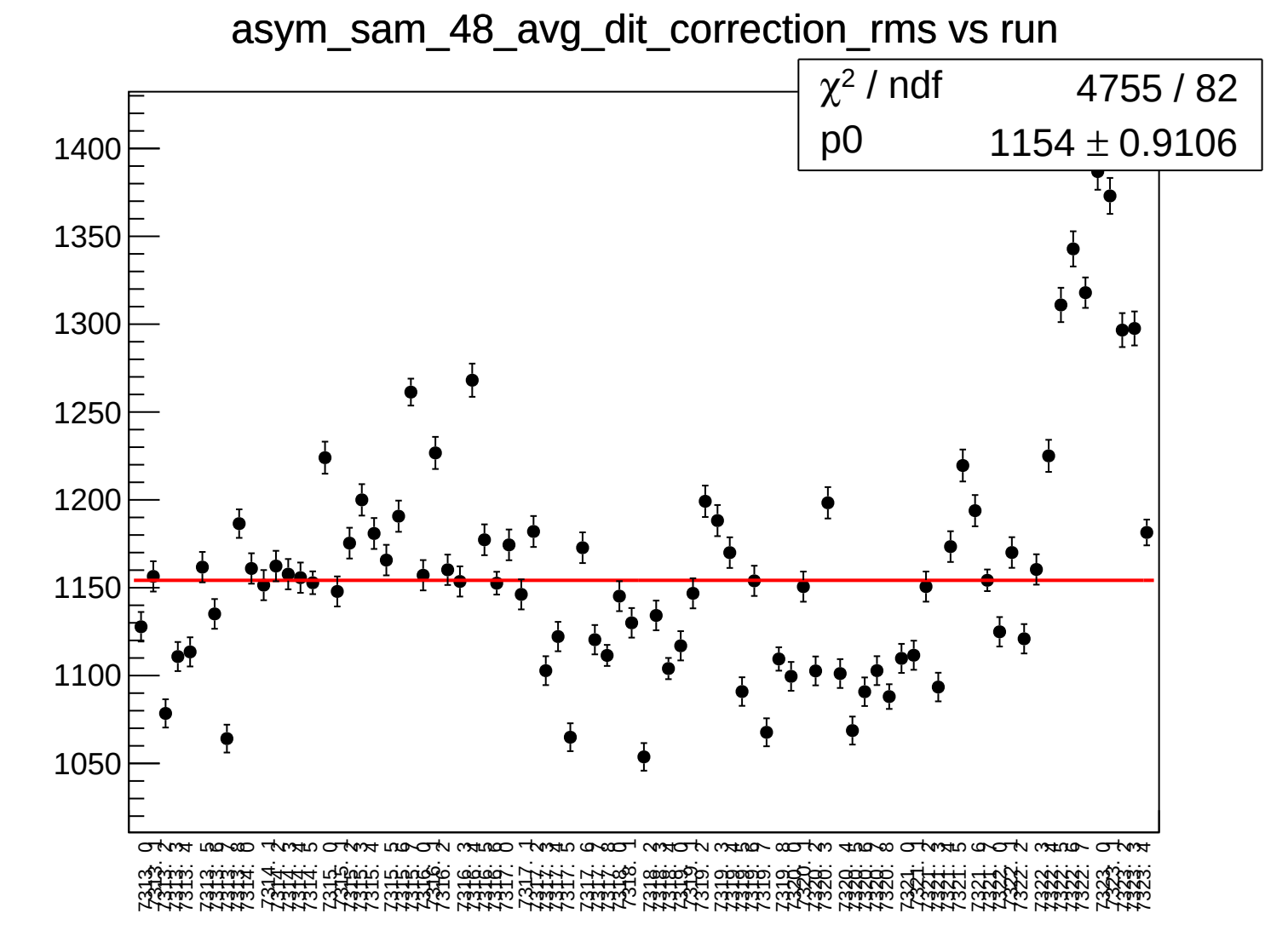

dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 95.63 / 82
p0 253.5 ± 201.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 18.95
Std Dev 62.5
2
1
0
−1
−2

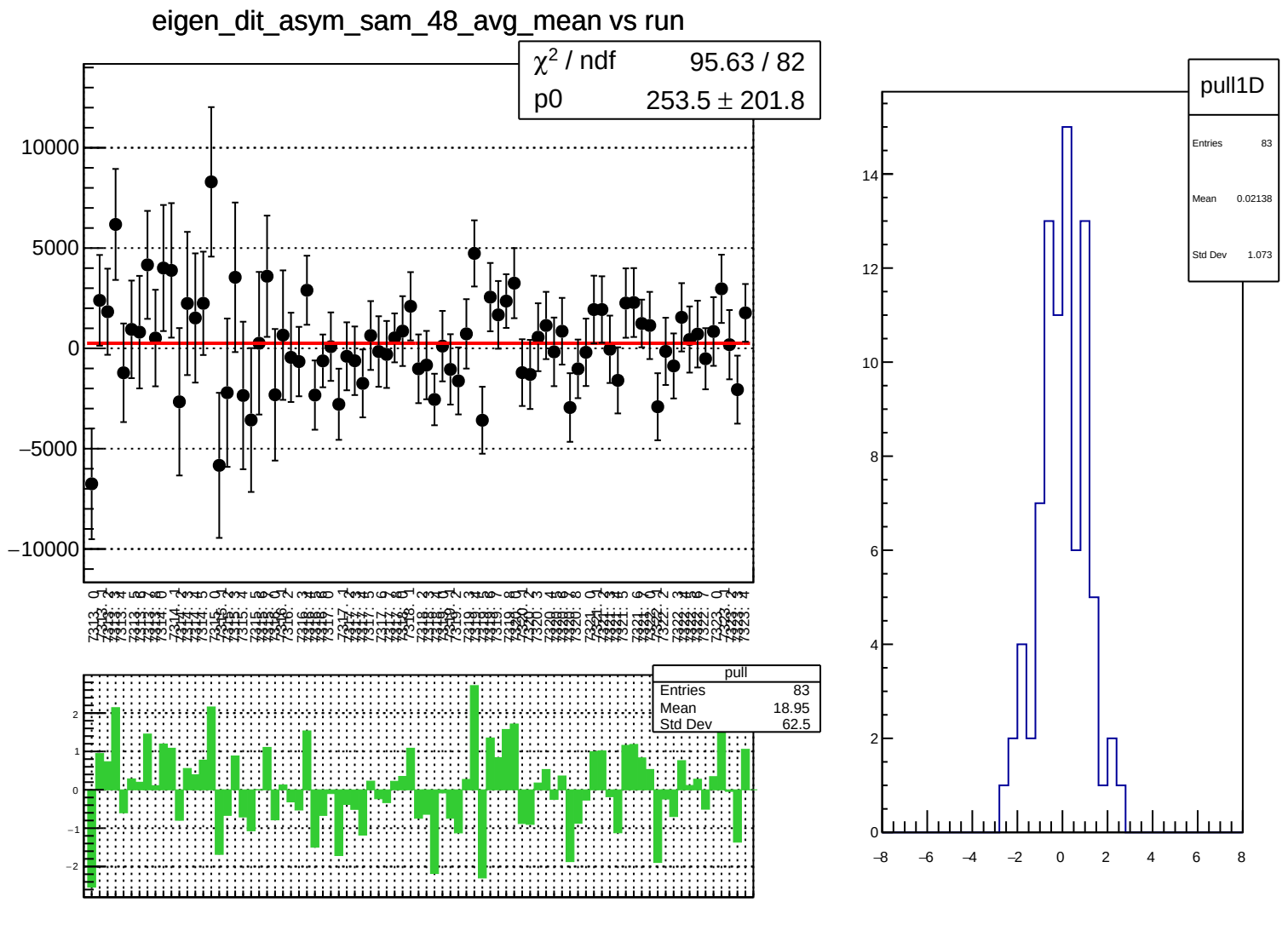

pull1D
Entries 83
Mean 0.02138
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

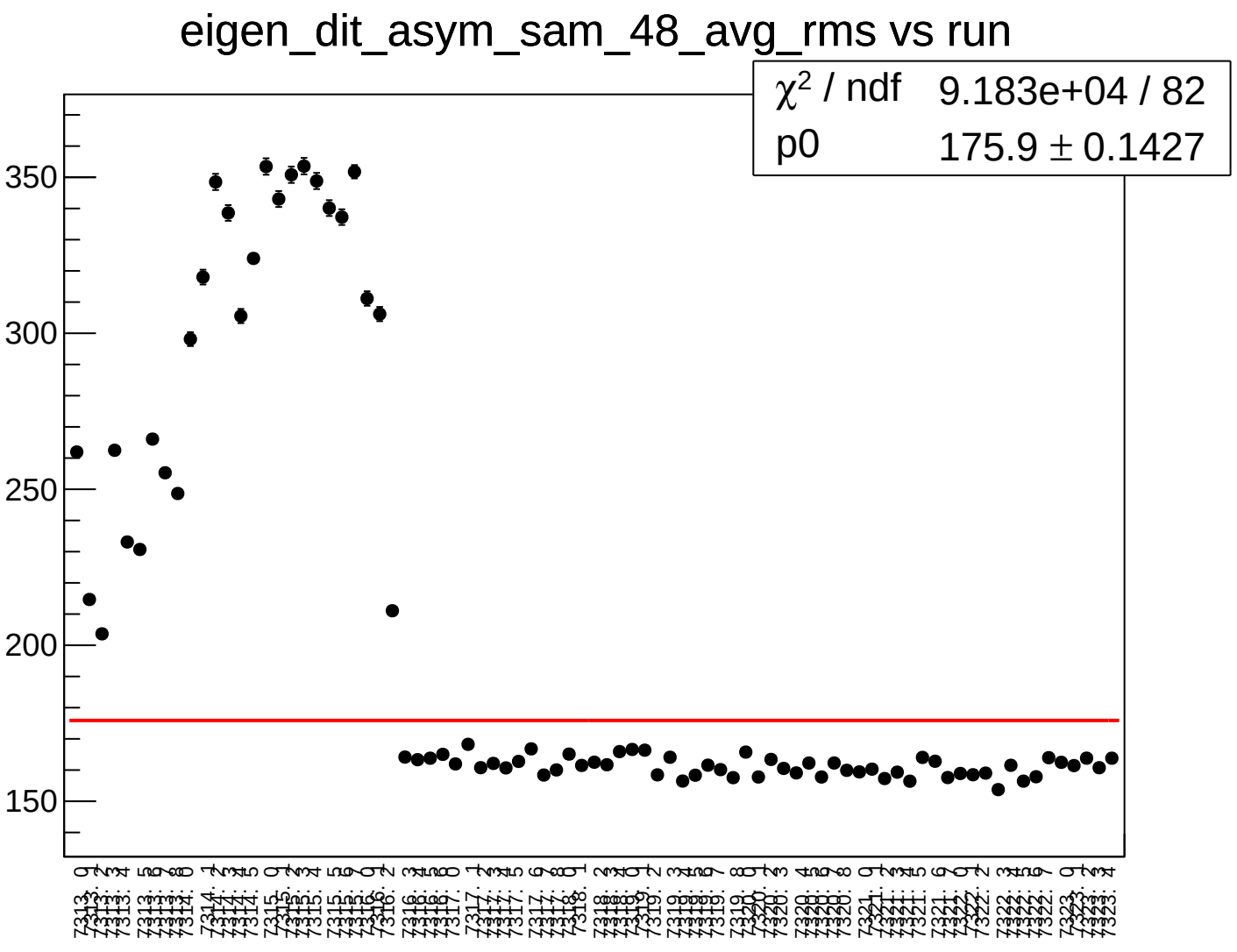

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 9.183e+04 / 82
p0 175.9 ± 0.1427
350
300
250
200
150

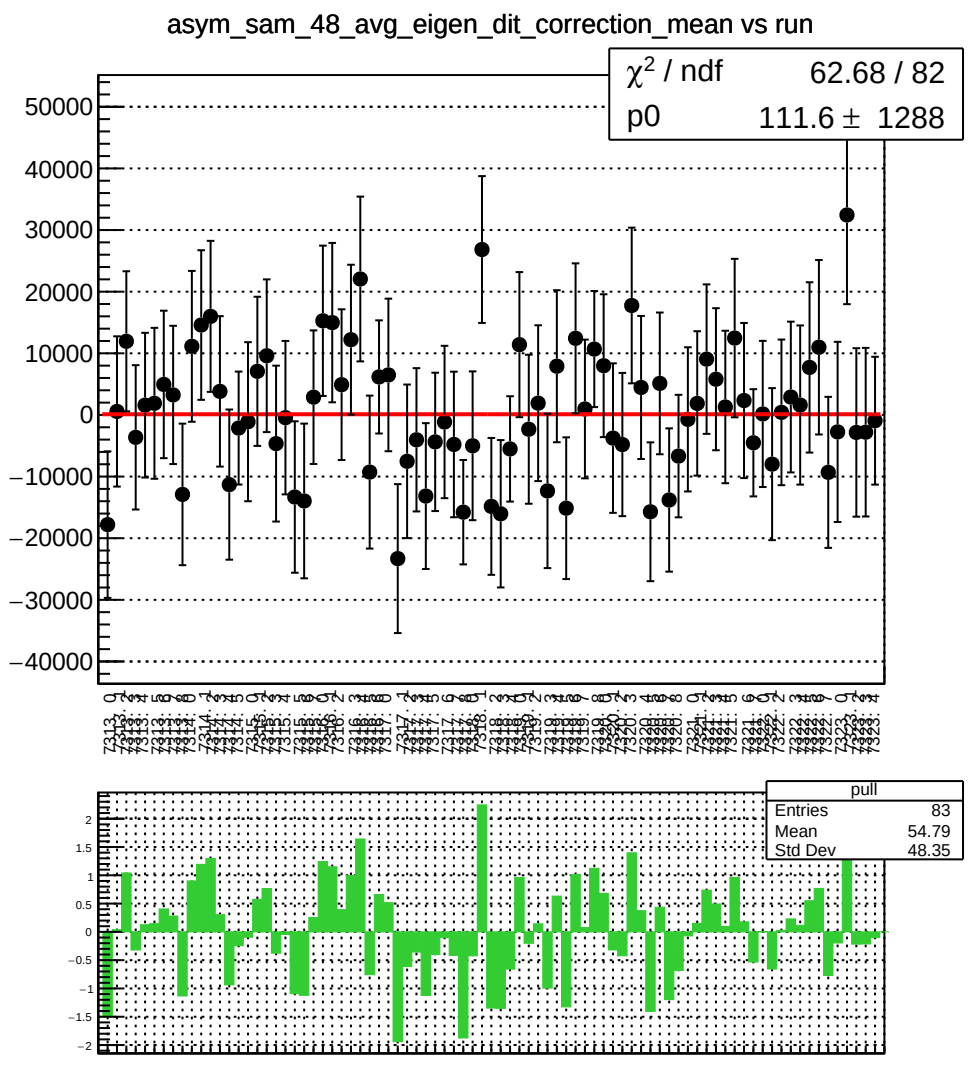

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 62.68 / 82
p0 111.6 ± 1288
pull
Entries 83
Mean 54.79
Std Dev 48.35

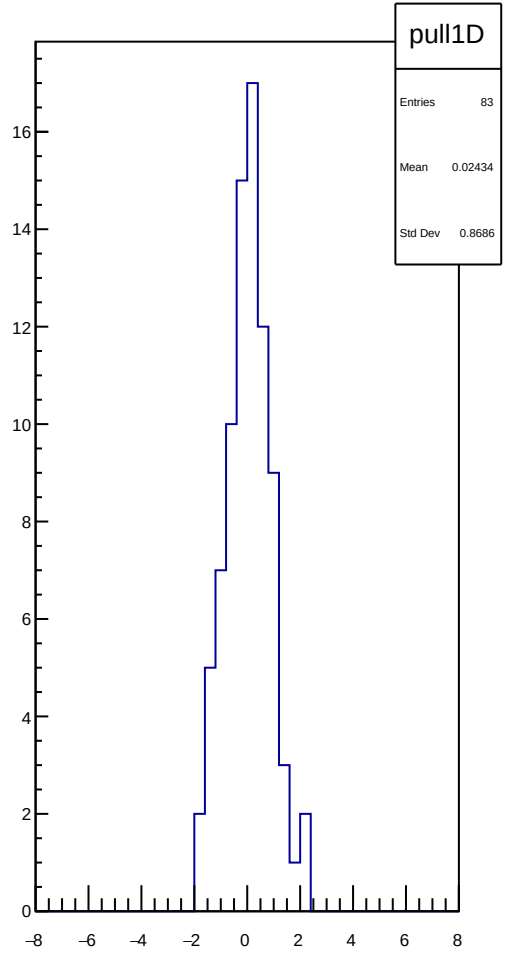

pull1D
Entries 83
Mean 0.02434
Std Dev 0.8686

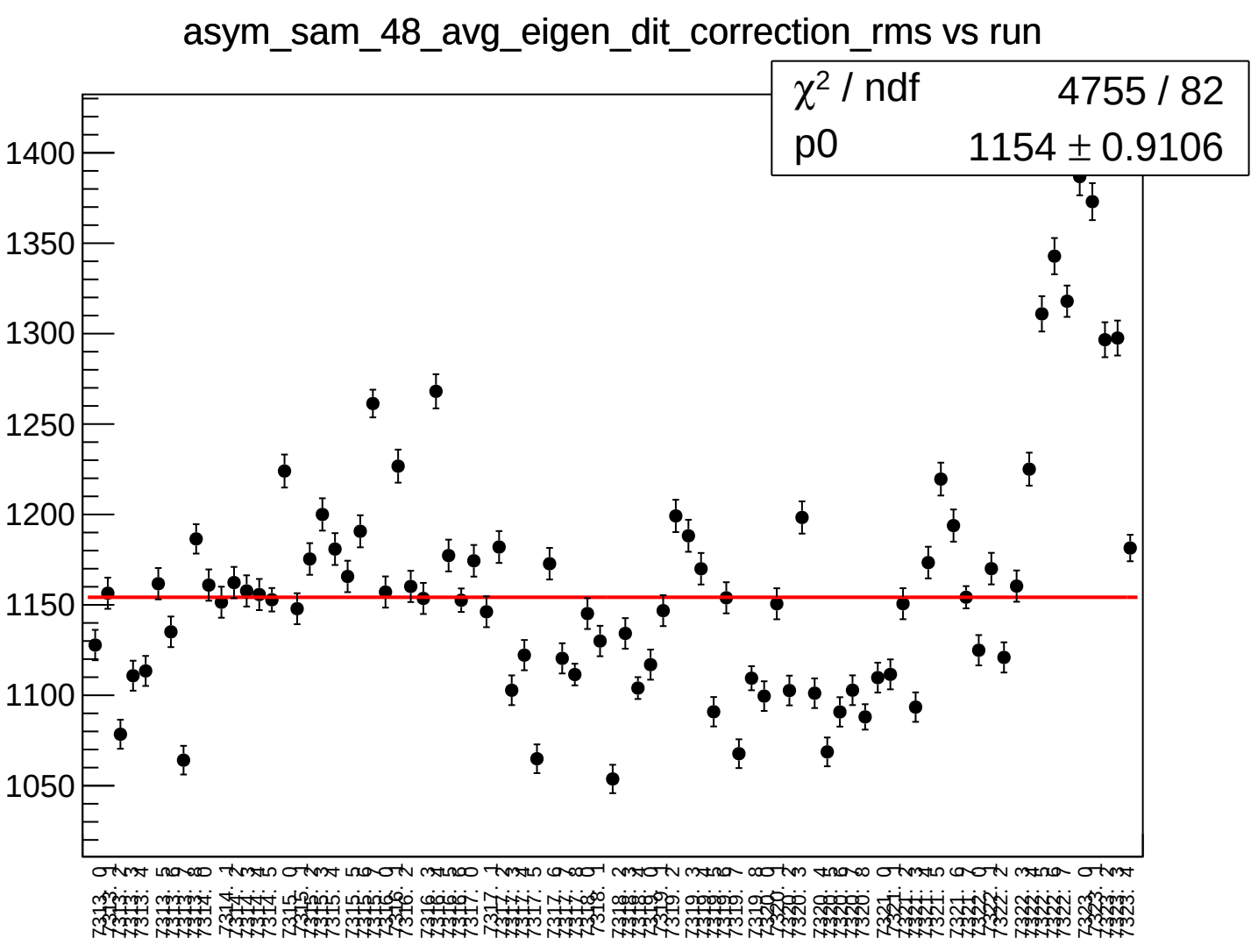

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4755 / 82
p0 1154 ± 0.9106
1400
1350
1300
1250
1200
1150
1100
1050

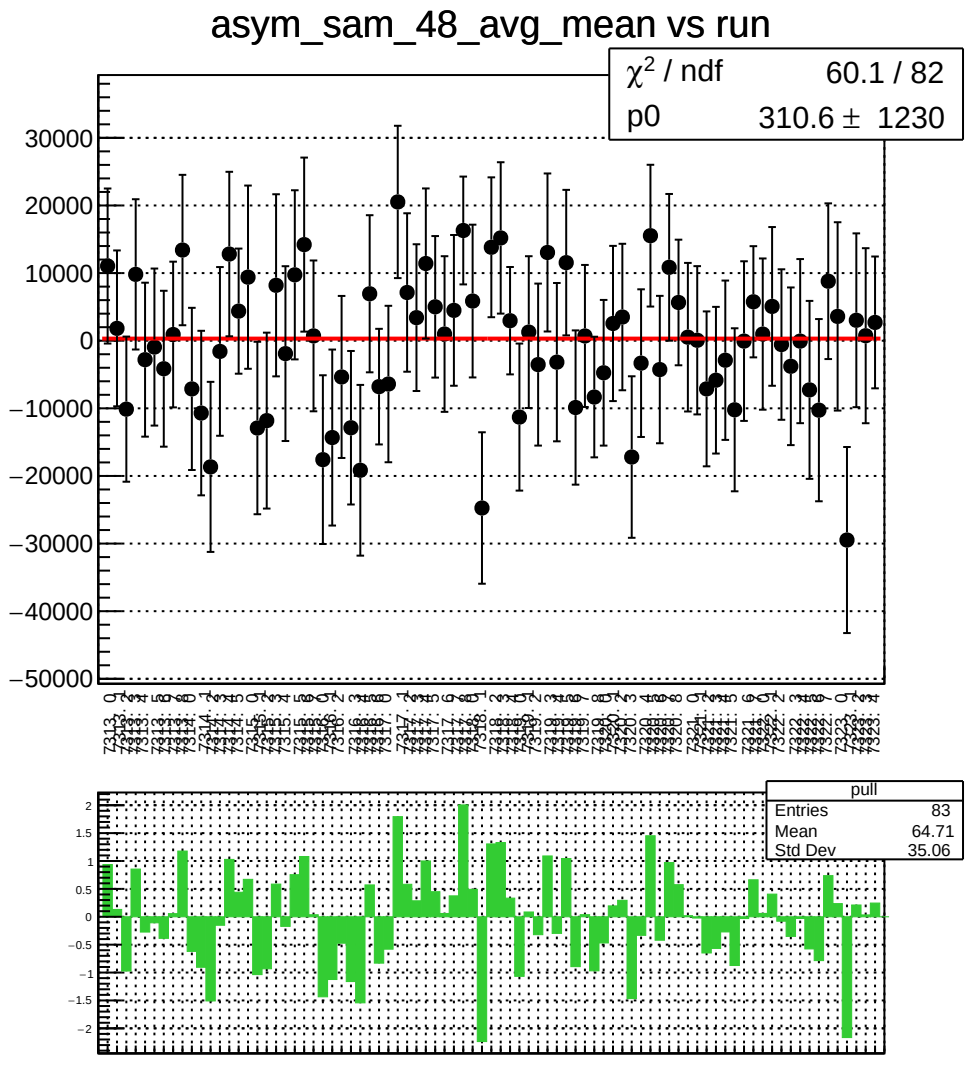

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 95.63 / 82
p0 253.5 ± 201.8
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 18.95
Std Dev 62.5
pull1D
Entries 83
Mean 0.02138
Std Dev 1.073

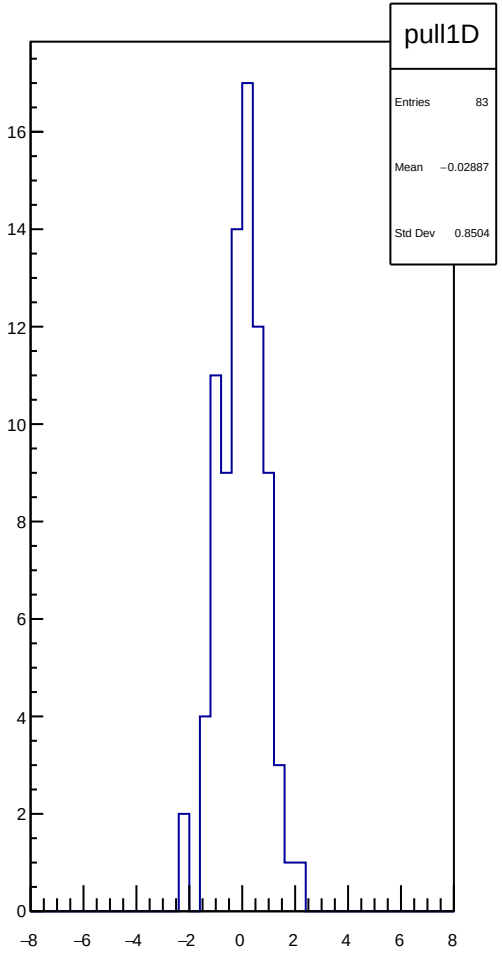

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 9.183e+04 / 82
p0 175.9 ± 0.1427
350
300
250
200
150

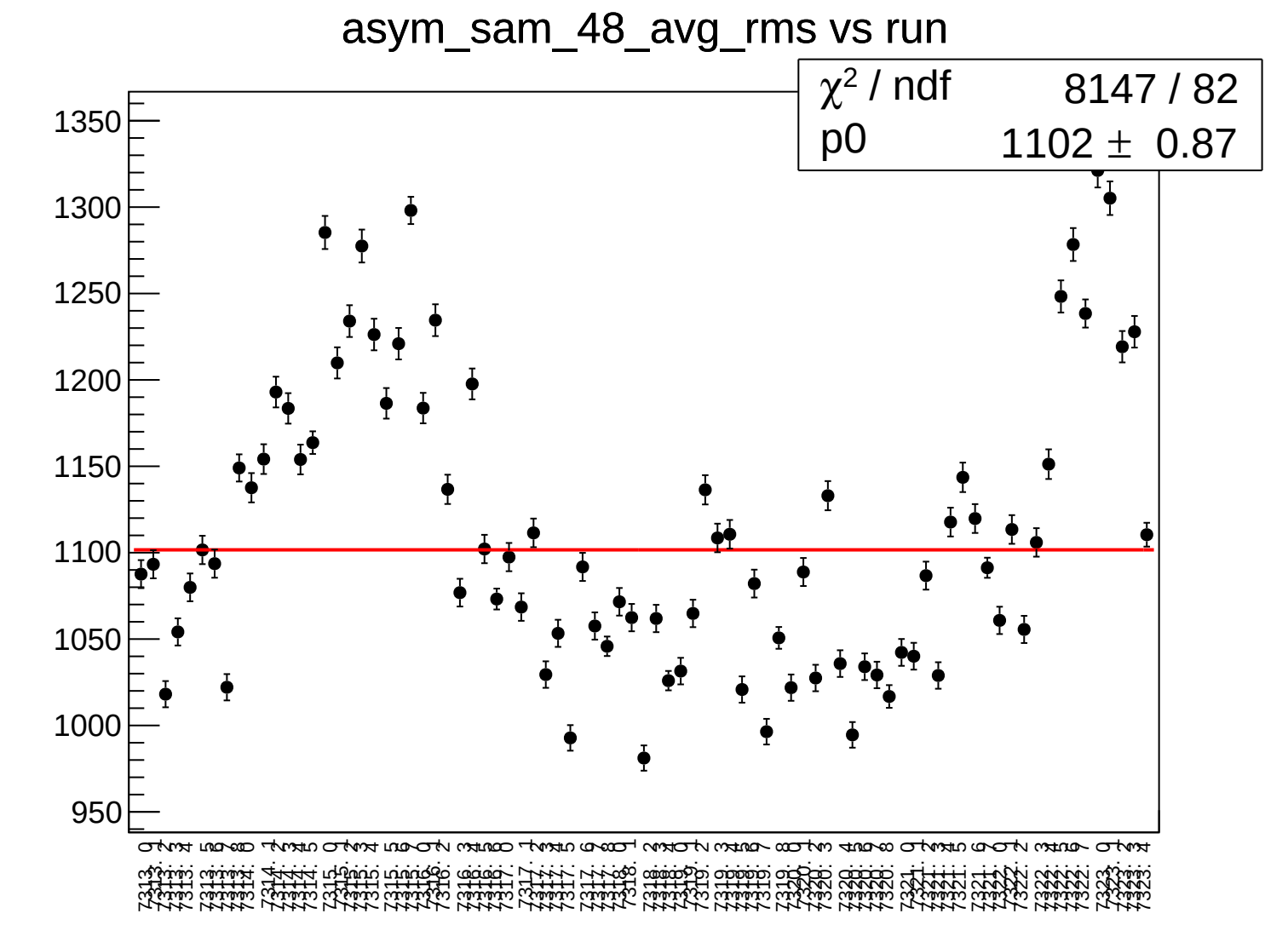

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.68 / 82
p0 111.6 ± 1288
pull
Entries 83
Mean 54.79
Std Dev 48.35

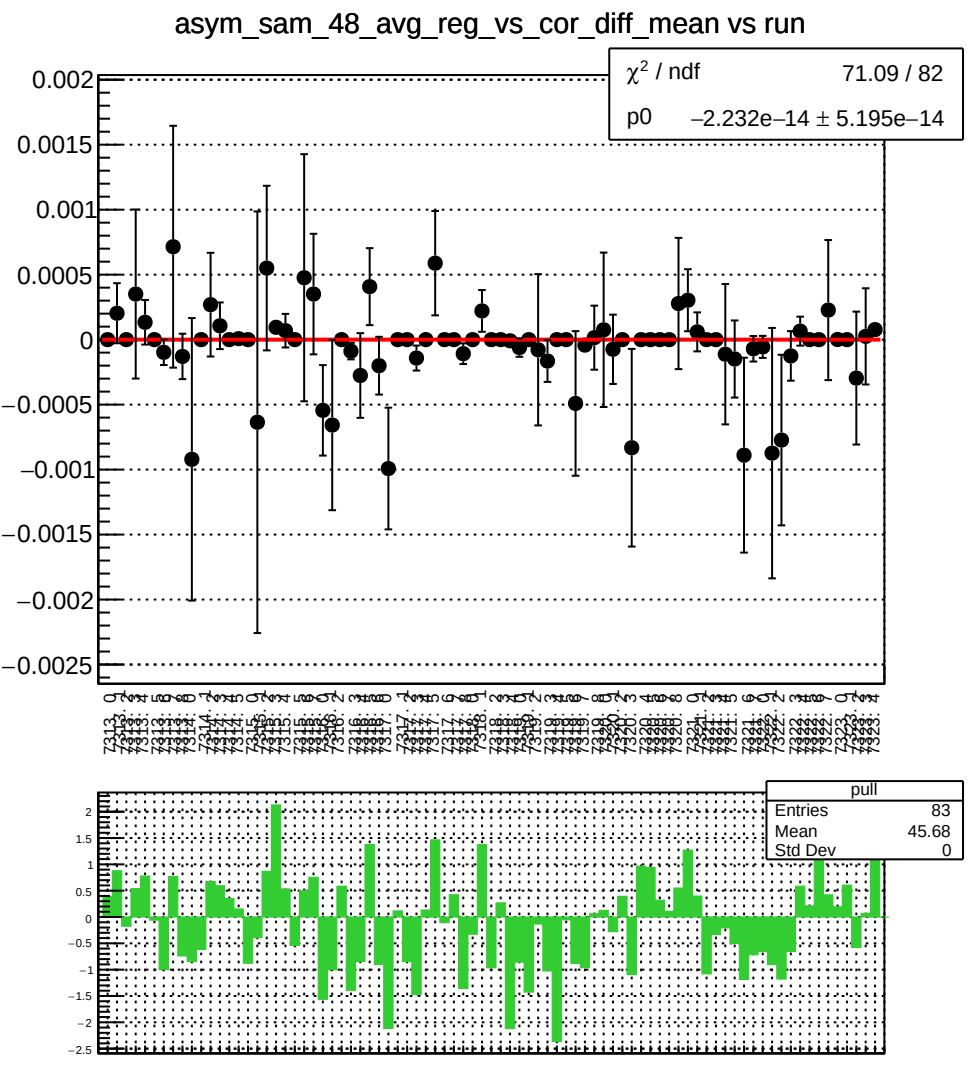

pull1D
Entries 83
Mean 0.02434
Std Dev 0.8686

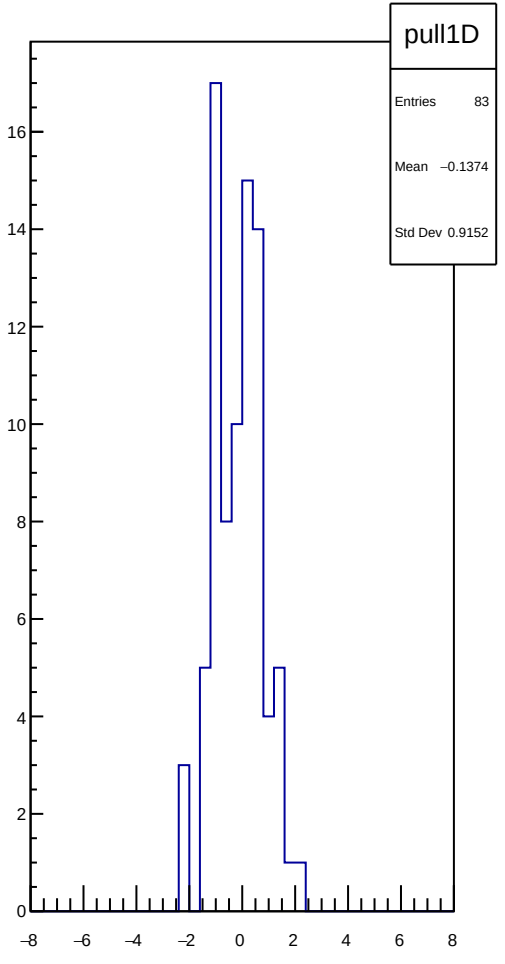

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4755 / 82
p0 1154 ± 0.9106
1400
1350
1300
1250
1200
1150
1100
1050

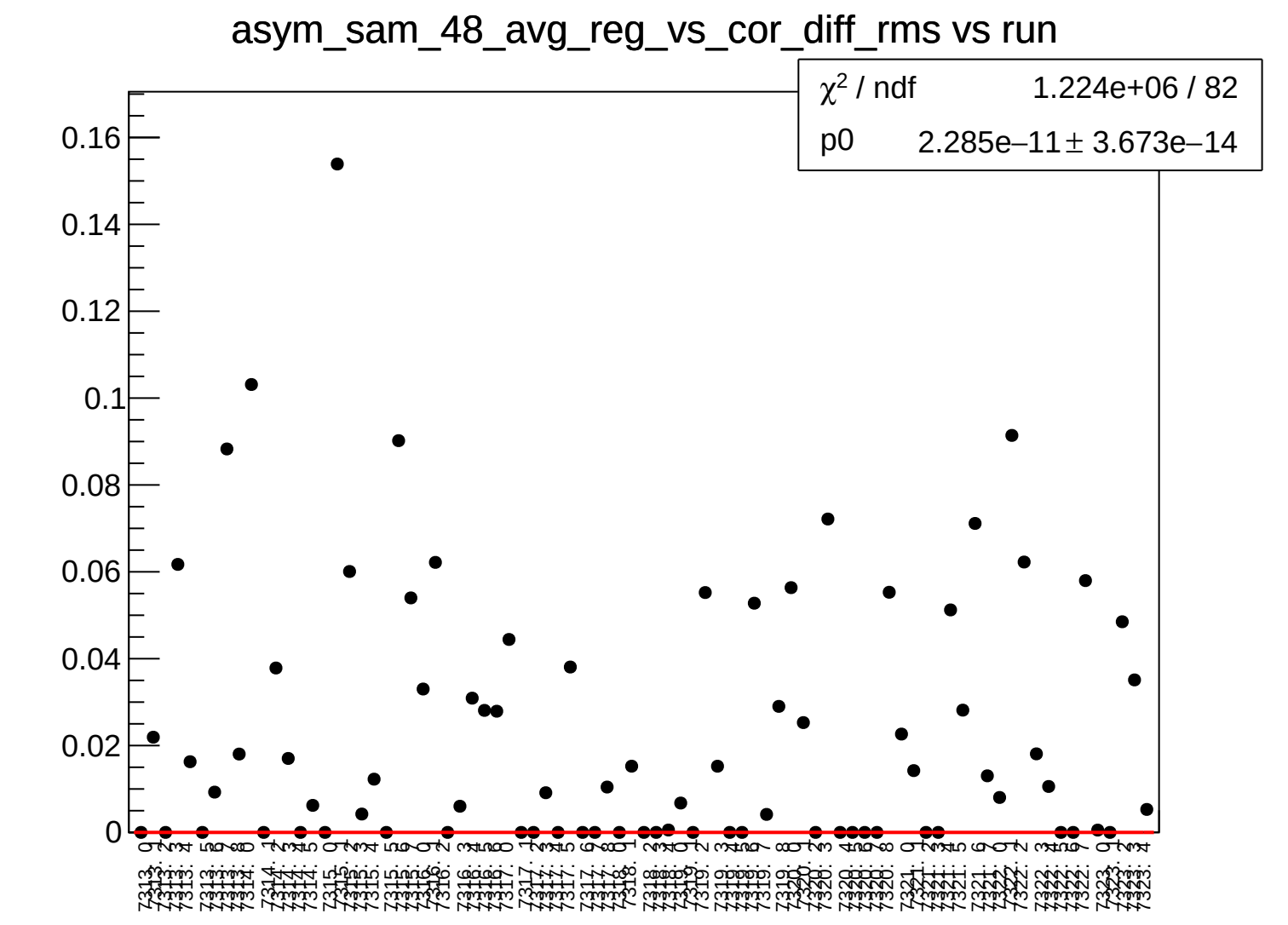

asym_sam_48_avg_mean vs run
χ^2 / ndf 60.1 / 82
p0 310.6 ± 1230
pull
Entries 83
Mean 64.71
Std Dev 35.06

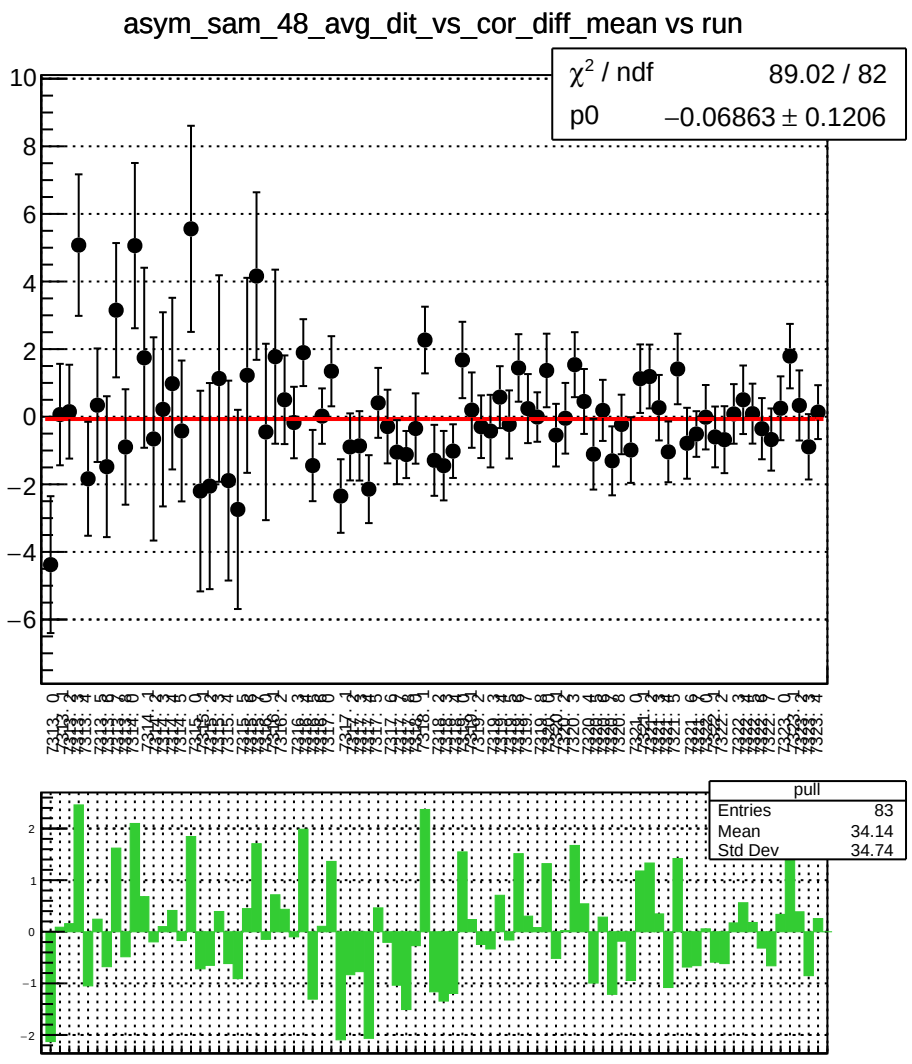

pull1D
Entries 83
Mean −0.02887
Std Dev 0.8504

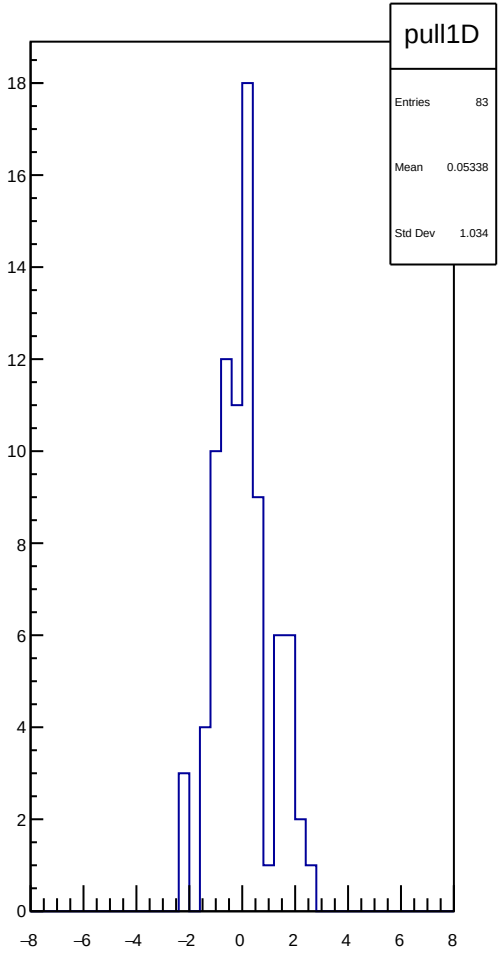

asym_sam_48_avg_rms vs run
χ² / ndf 8147 / 82
p0 1102 ± 0.87
1350
1300
1250
1200
1150
1100
1050
1000
950

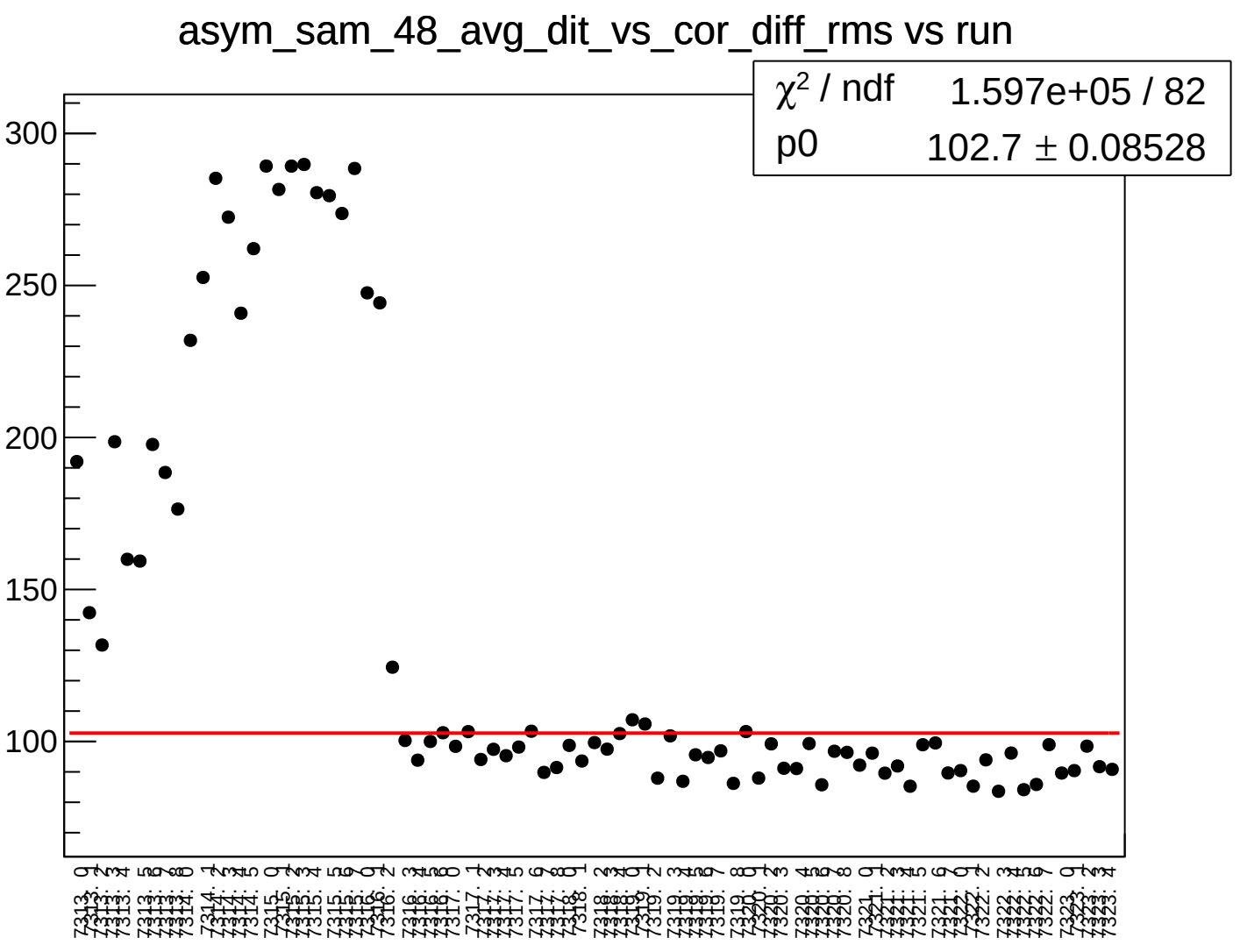

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.09 / 82
p0 −2.232e−14 ± 5.195e−14
pull
Entries 83
Mean 45.68
Std Dev 0

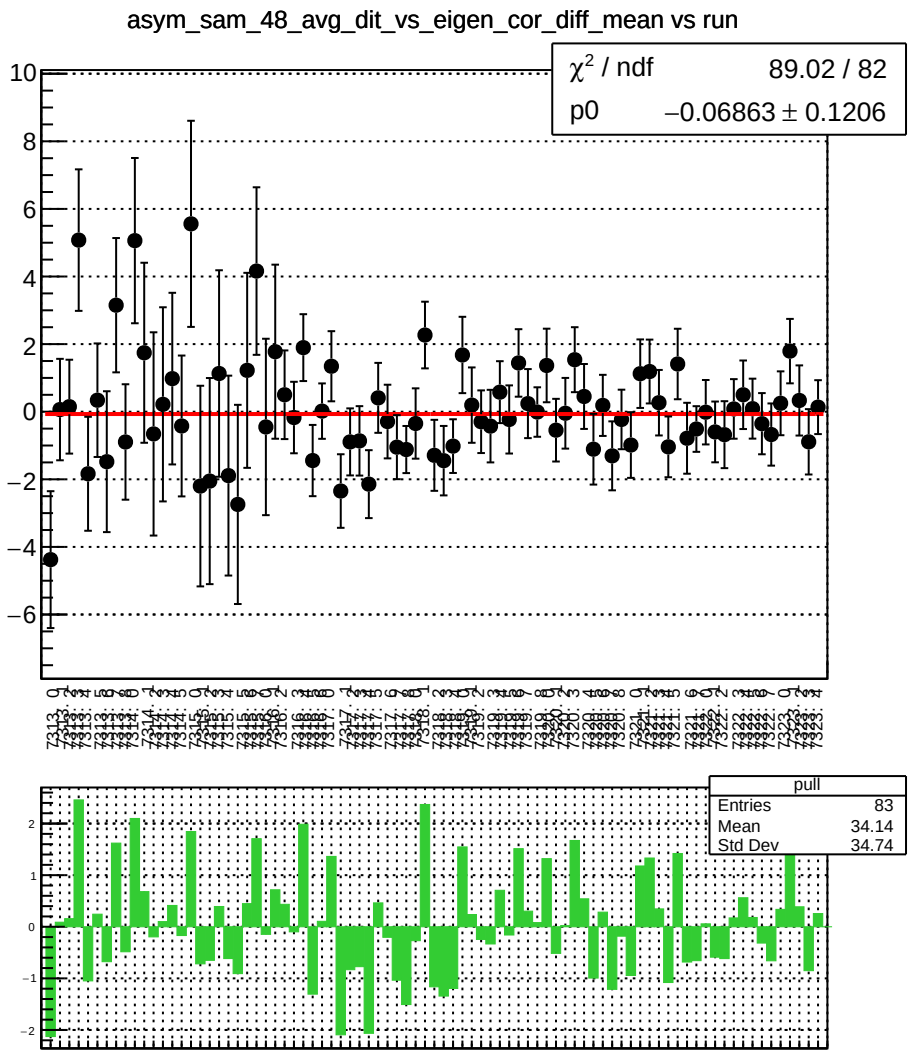

pull1D
Entries 83
Mean −0.1374
Std Dev 0.9152

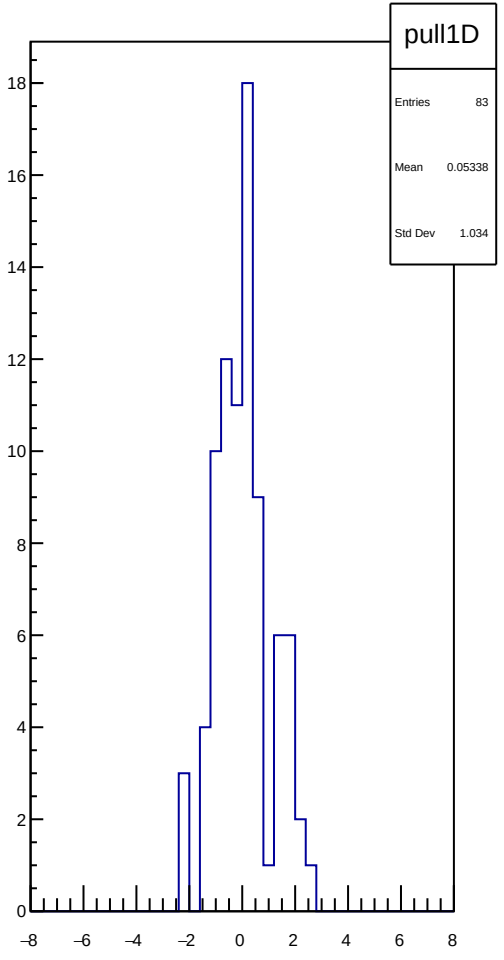

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 82
p0 2.285e−11 ± 3.673e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

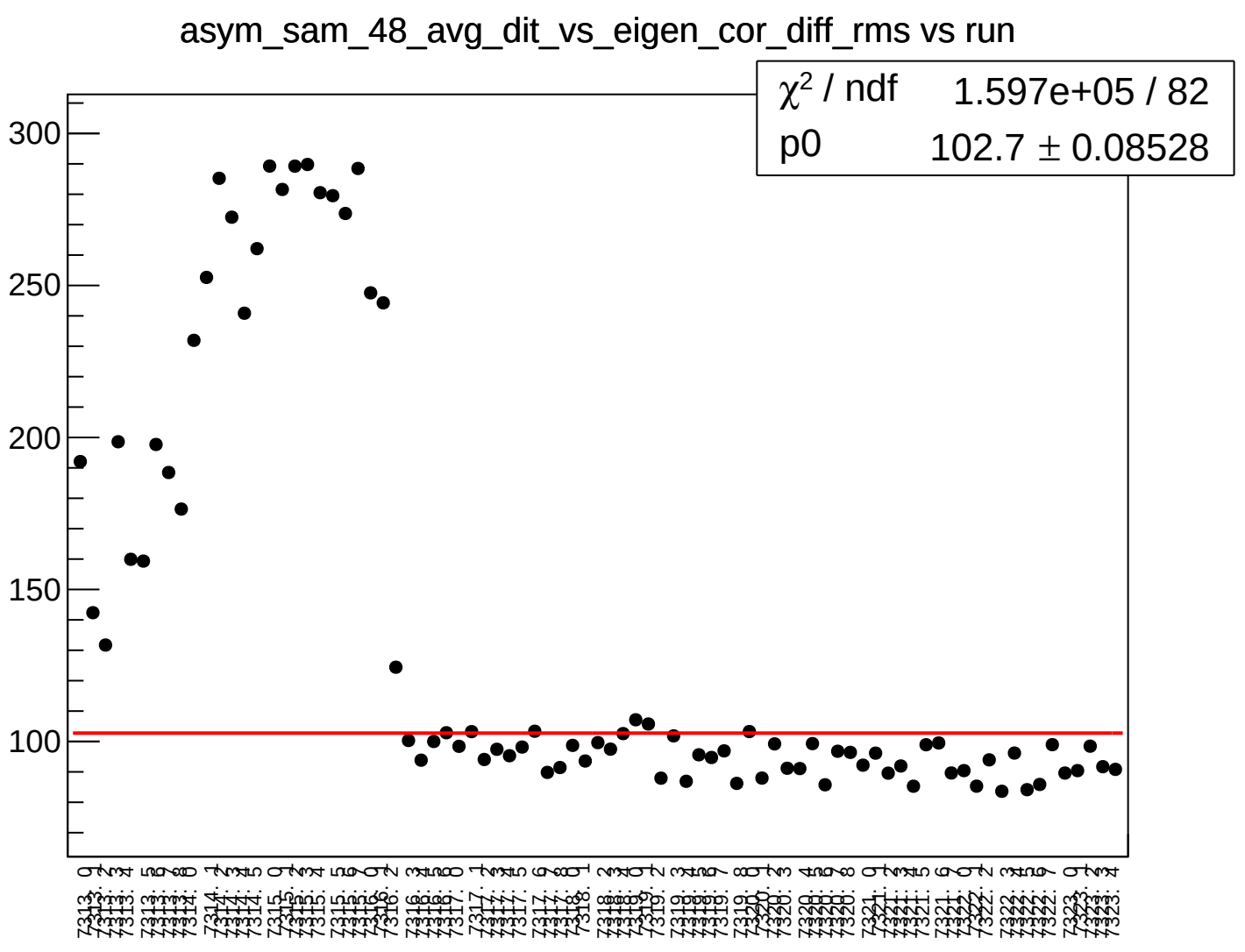

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.02 / 82
p0 −0.06863 ± 0.1206
pull
Entries 83
Mean 34.14
Std Dev 34.74

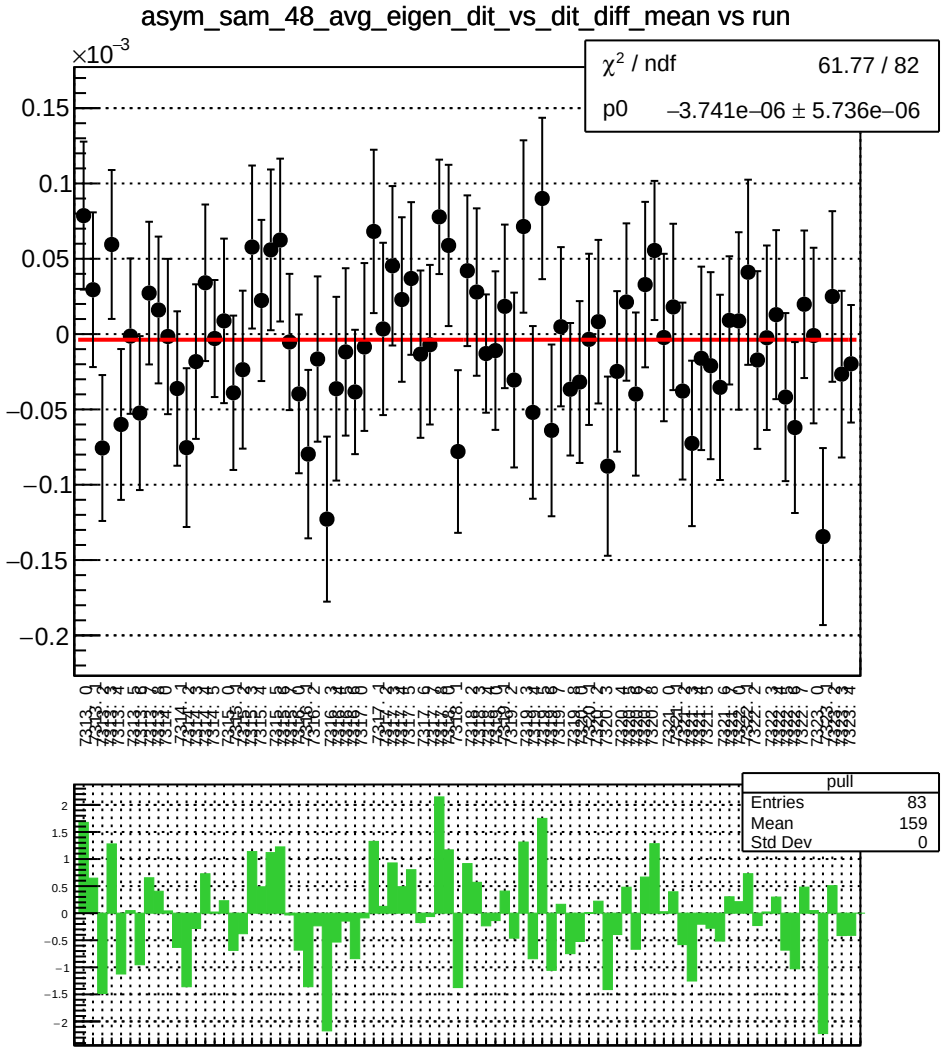

pull1D
Entries 83
Mean 0.05338
Std Dev 1.034

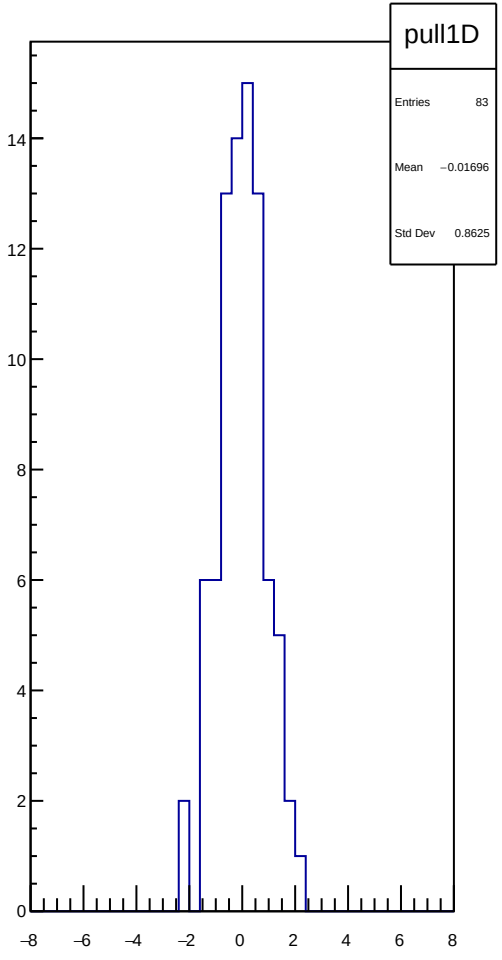

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 82
p0 102.7 ± 0.08528
300
250
200
150
100

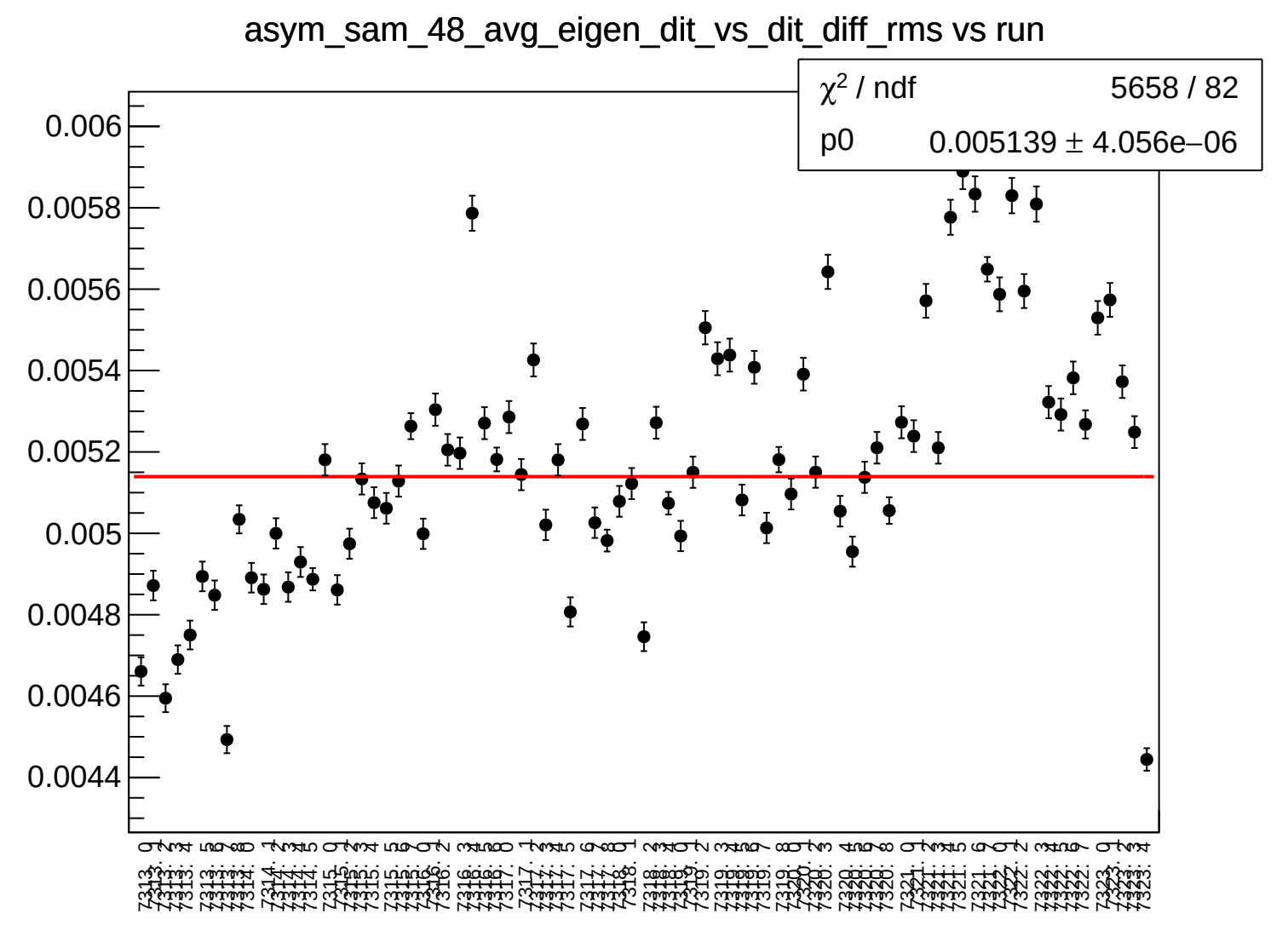

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.02 / 82
p0 −0.06863 ± 0.1206
pull
Entries 83
Mean 34.14
Std Dev 34.74

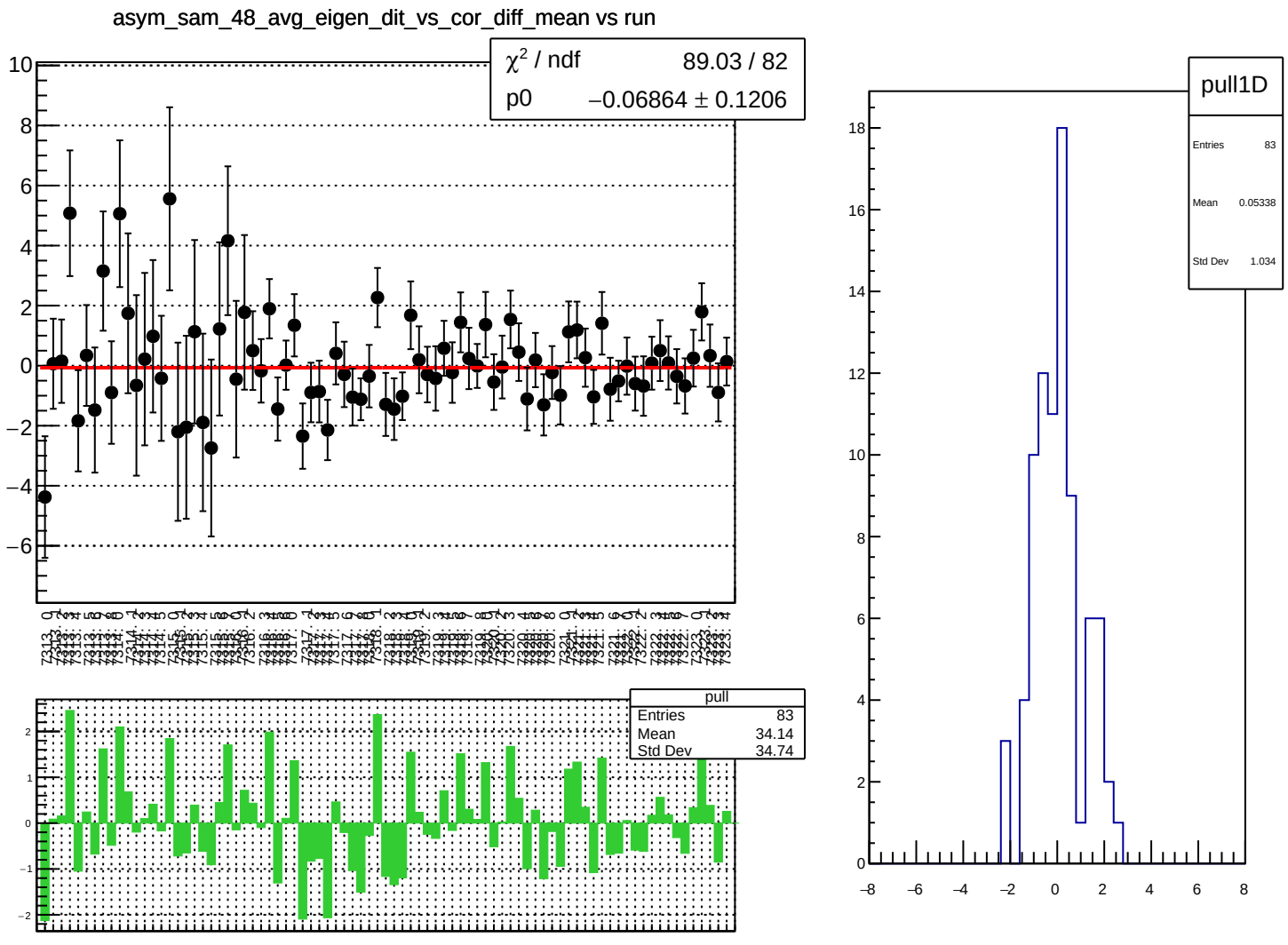

pull1D
Entries 83
Mean 0.05338
Std Dev 1.034

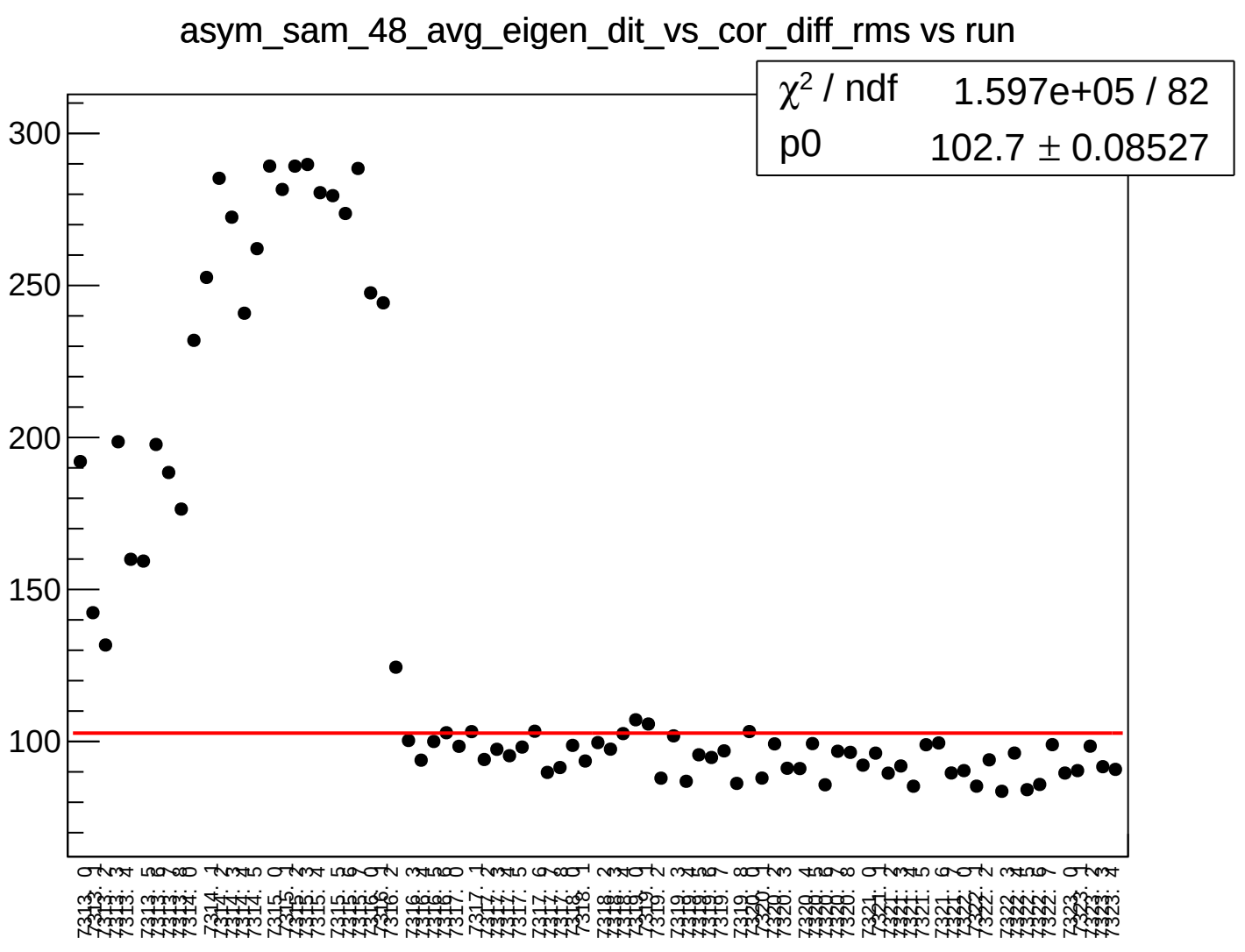

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 82
p0 102.7 ± 0.08528
300
250
200
150
100

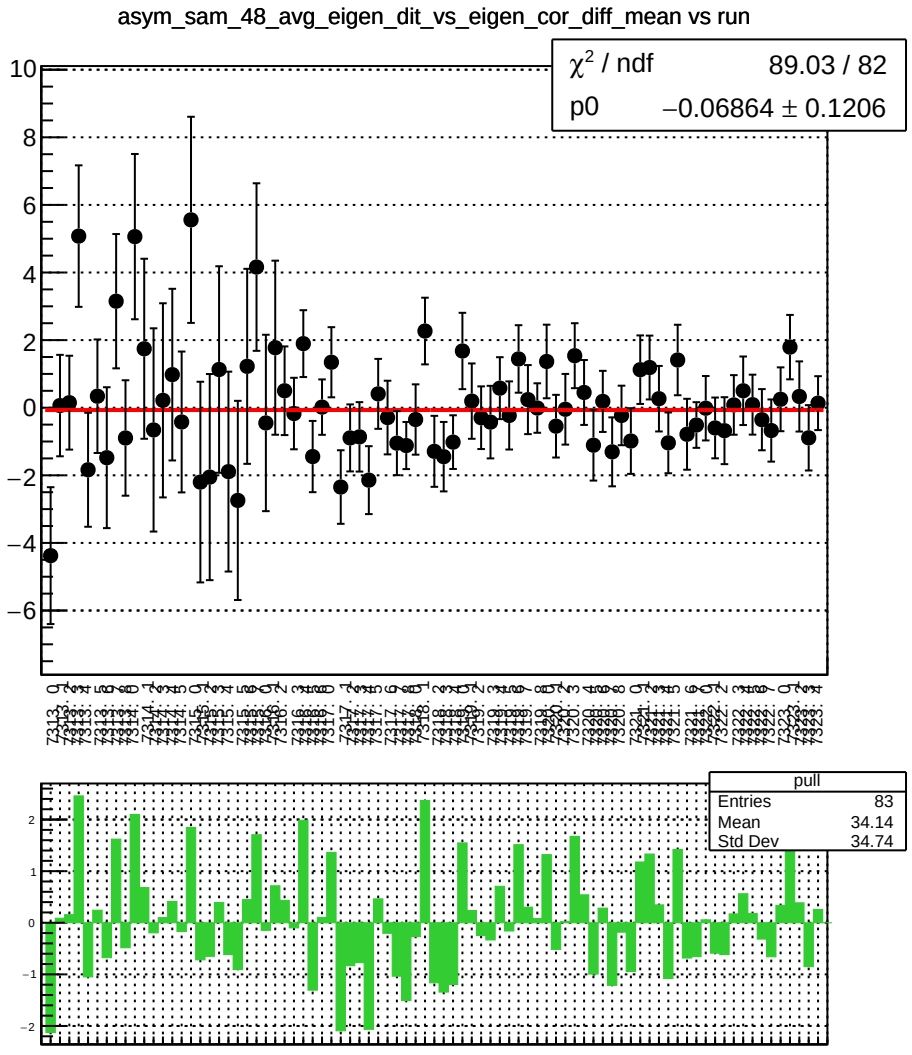

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.77 / 82
p0 −3.741e−06 ± 5.736e−06
pull
Entries 83
Mean 159
Std Dev 0

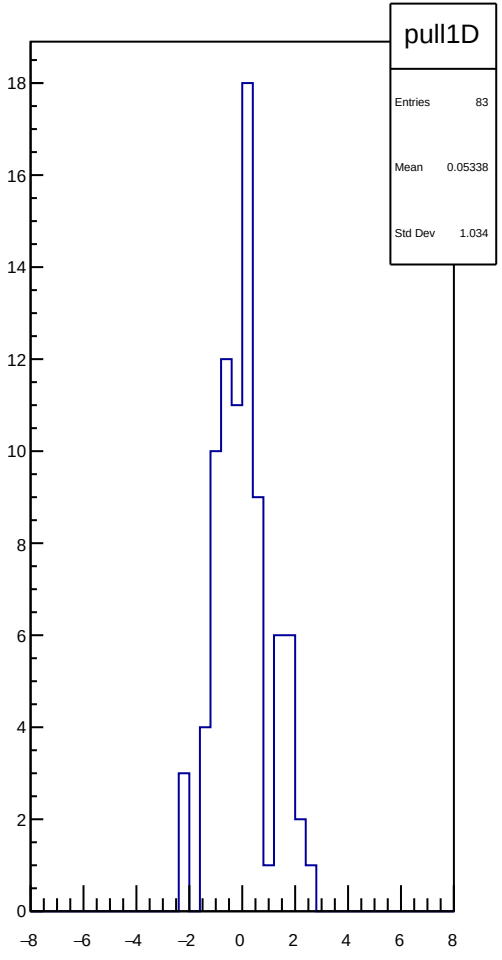

pull1D
Entries 83
Mean −0.01696
Std Dev 0.8625

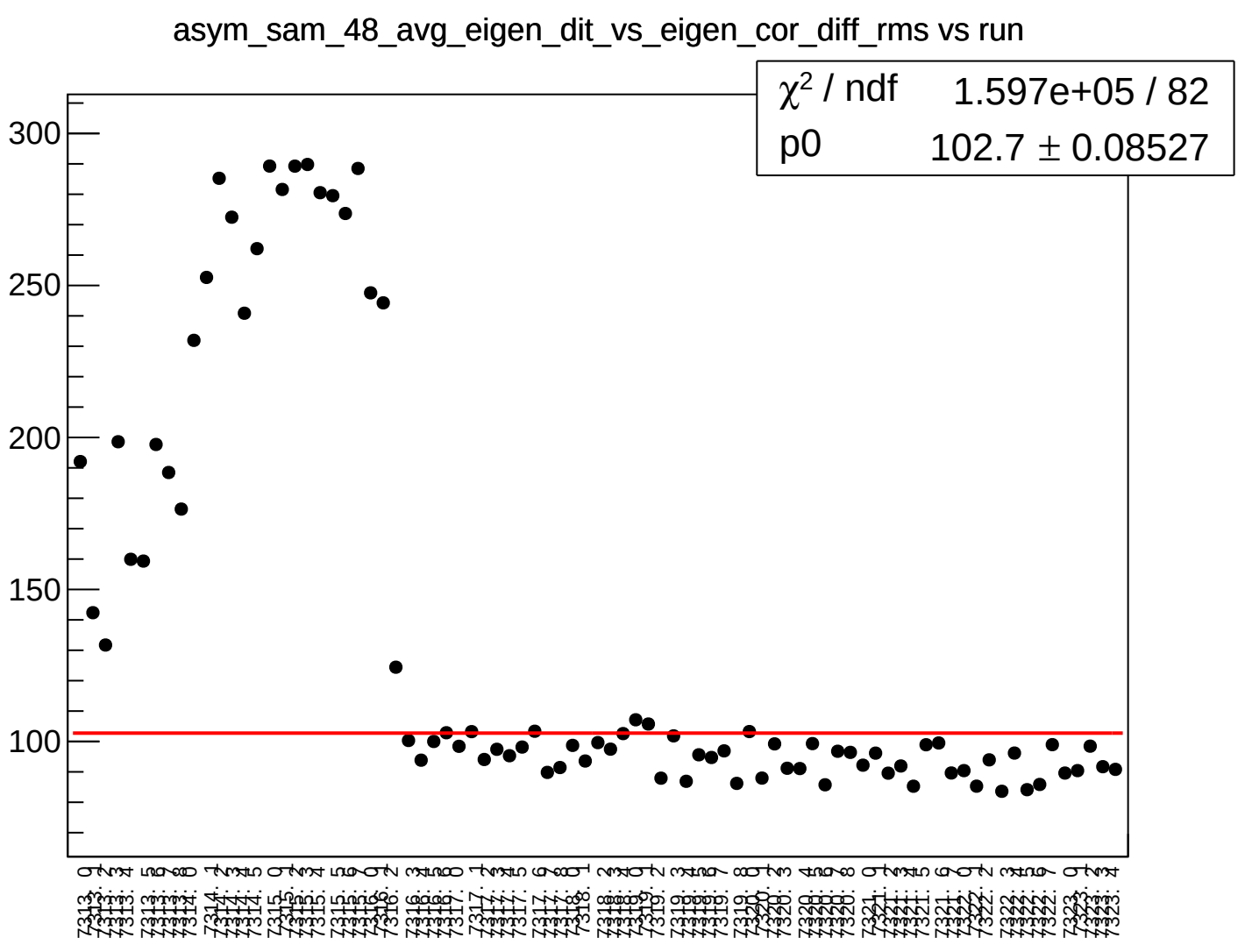

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5658 / 82
p0 0.005139 ± 4.056e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

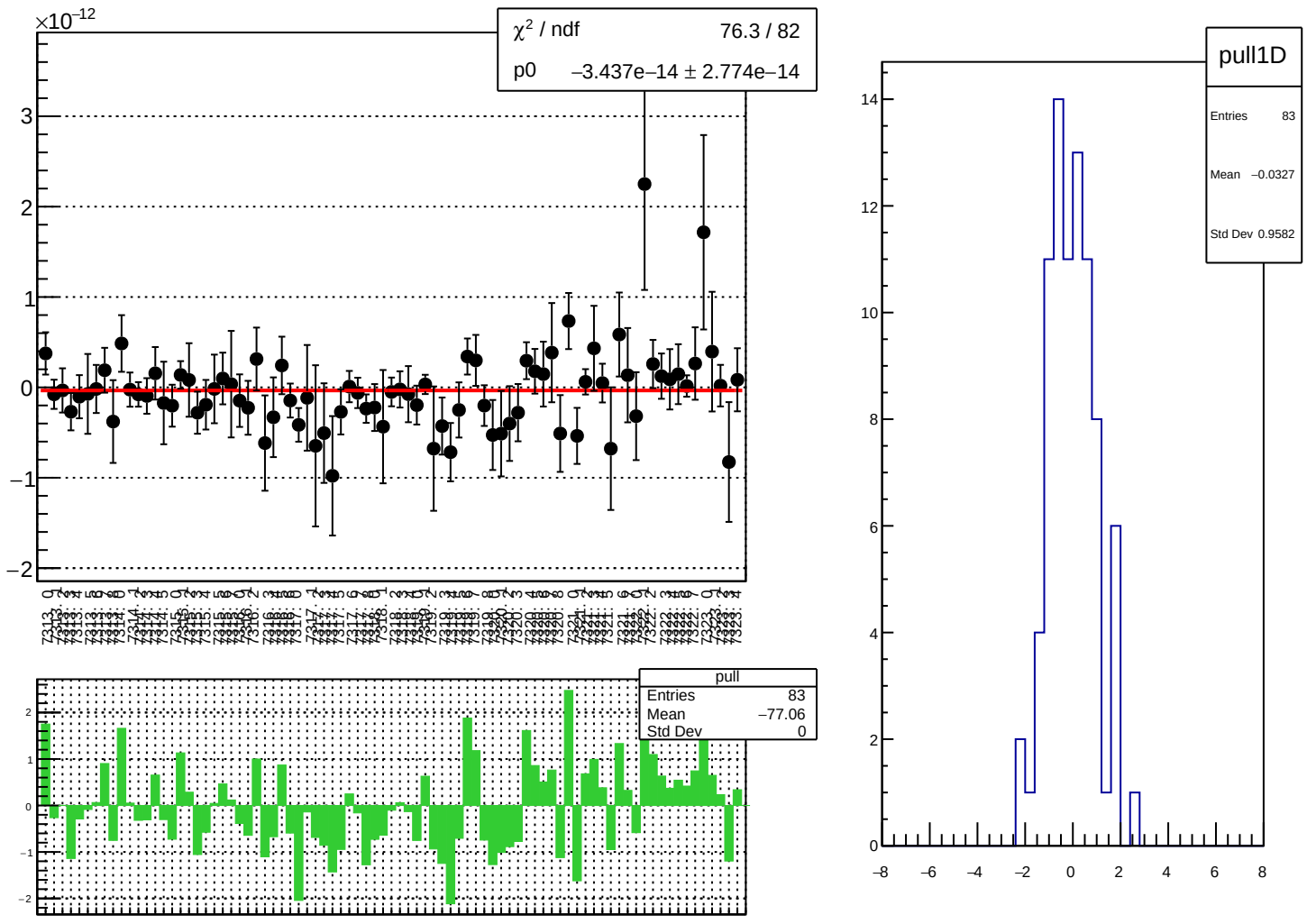

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.03 / 82
p0 −0.06864 ± 0.1206
pull
Entries 83
Mean 34.14
Std Dev 34.74
pull1D
Entries 83
Mean 0.05338
Std Dev 1.034

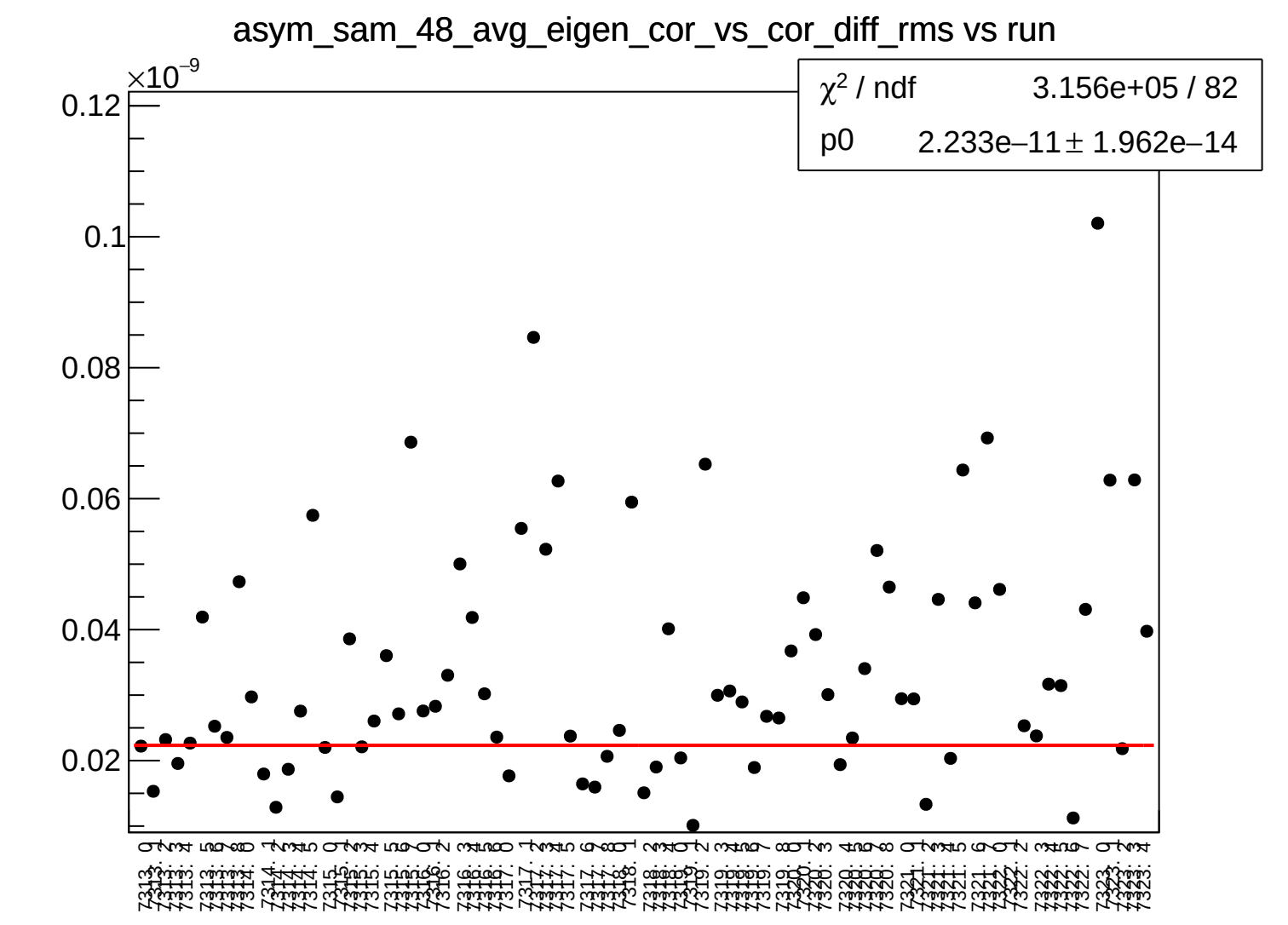

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 82
p0 102.7 ± 0.08527
300
250
200
150
100

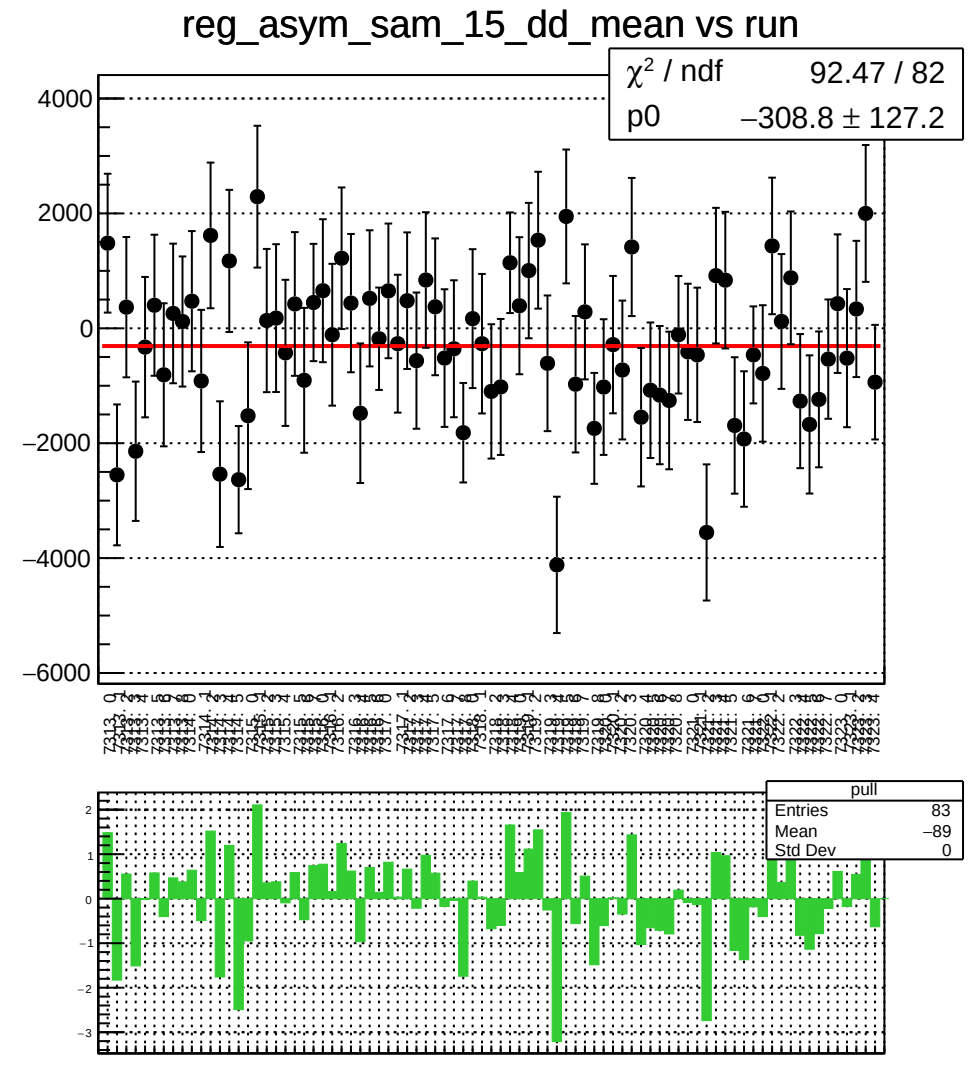

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.03 / 82
p0 −0.06864 ± 0.1206
pull
Entries 83
Mean 34.14
Std Dev 34.74

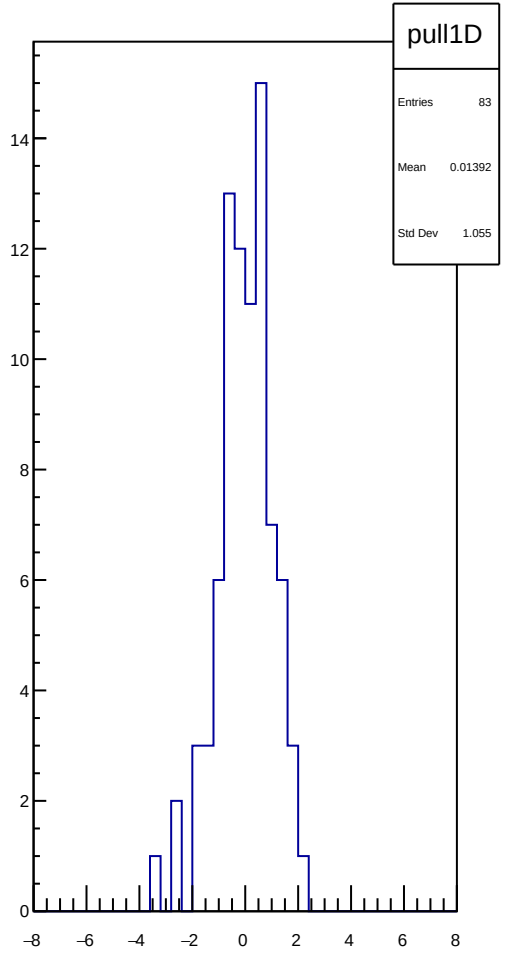

pull1D
Entries 83
Mean 0.05338
Std Dev 1.034

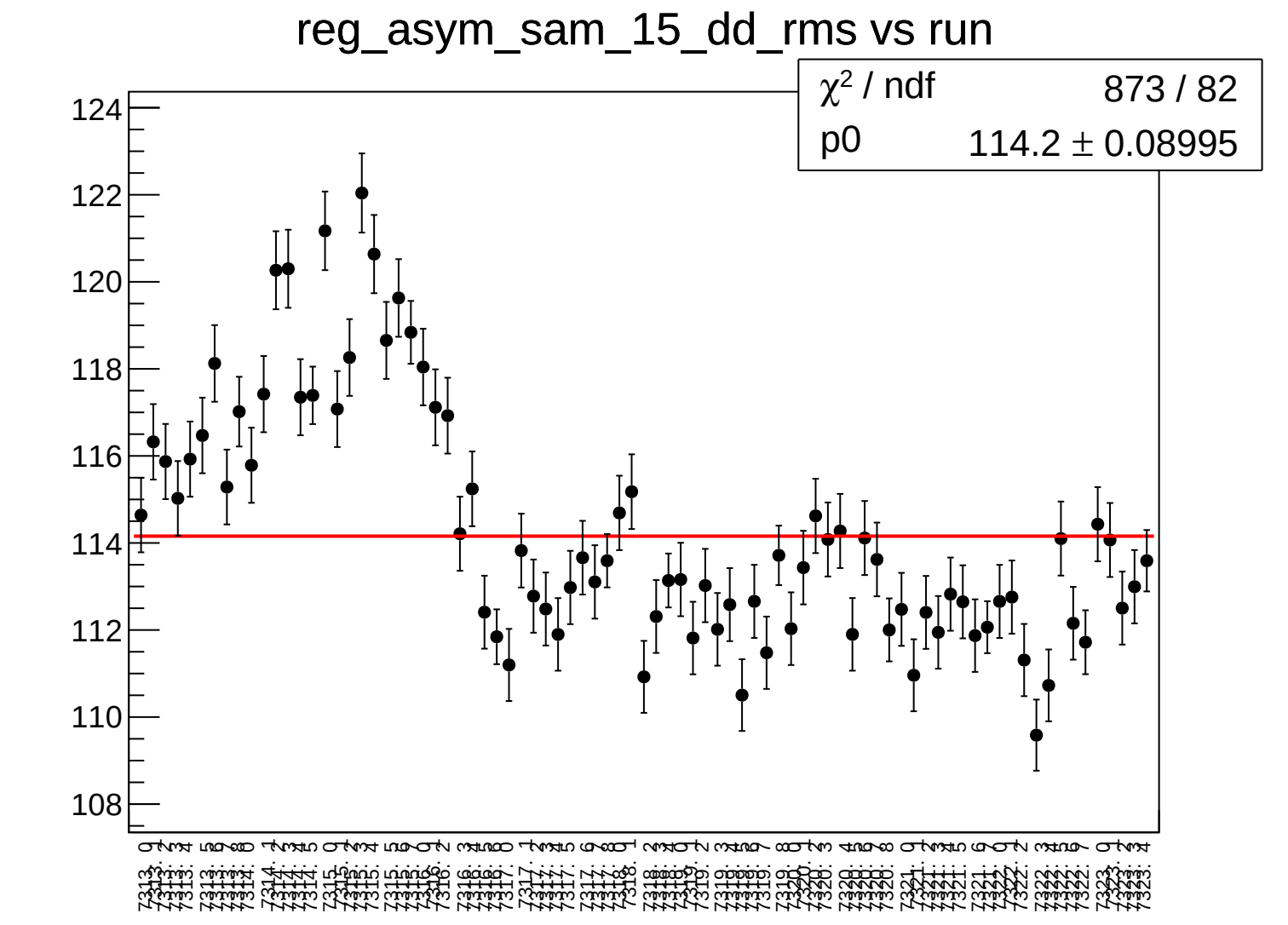

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 82
p0 102.7 ± 0.08527
300
250
200
150
100

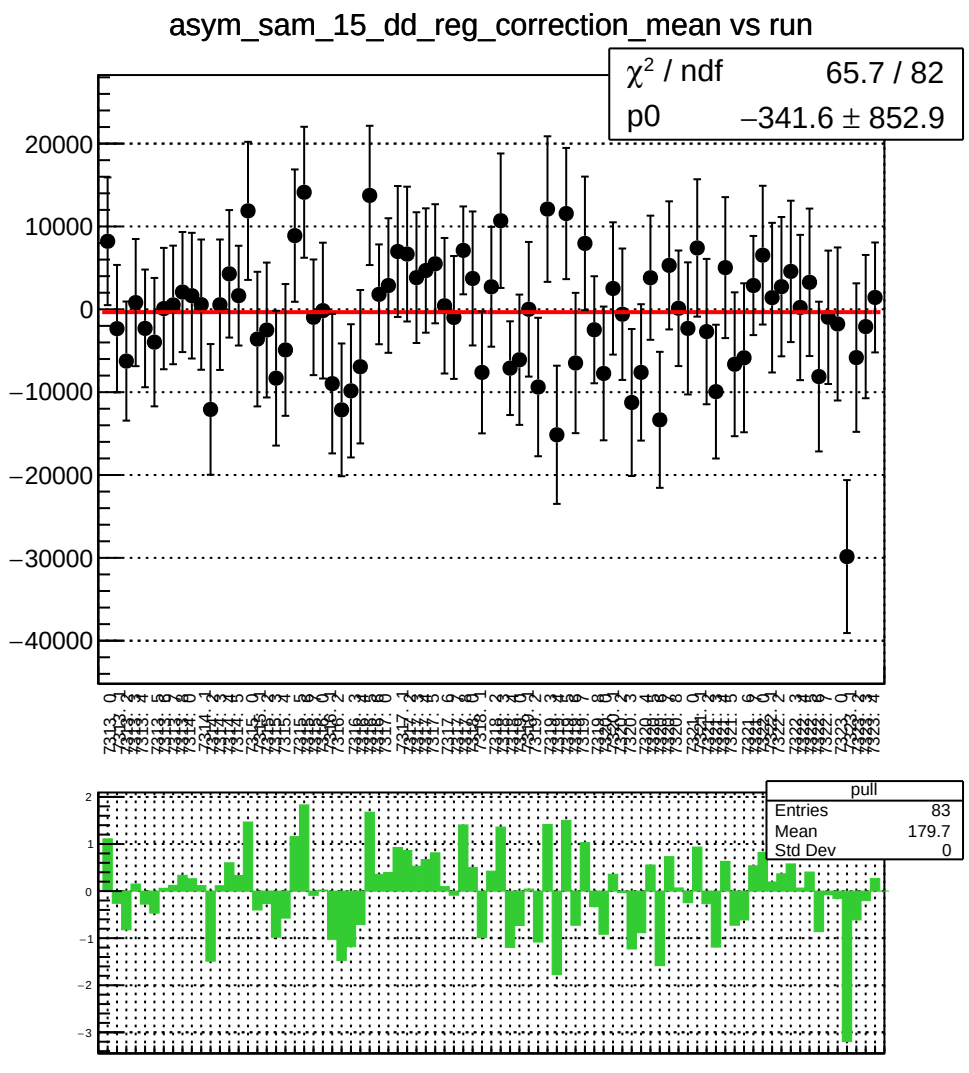

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.3 / 82
p0 −3.437e−14 ± 2.774e−14
pull
Entries 83
Mean −77.06
Std Dev 0
pull1D
Entries 83
Mean −0.0327
Std Dev 0.9582

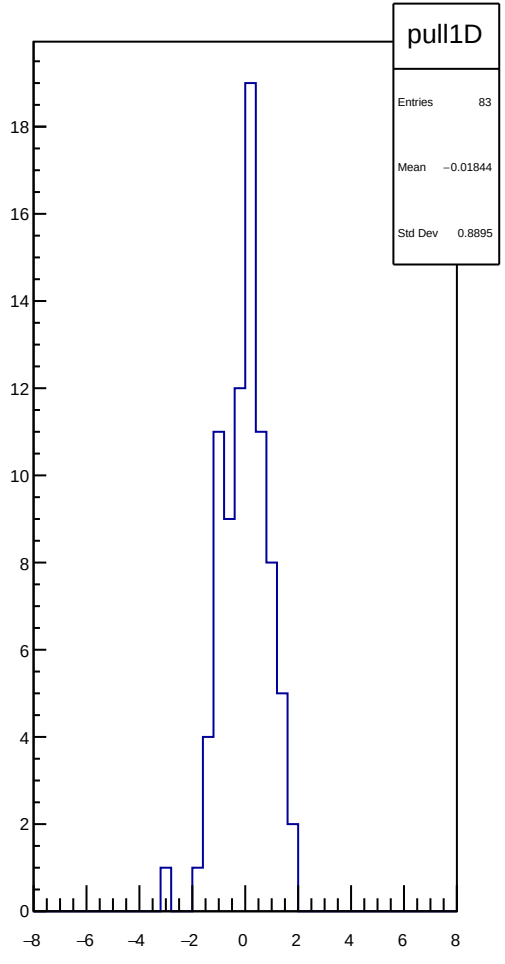

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 3.156e+05 / 82
p0 2.233e−11 ± 1.962e−14

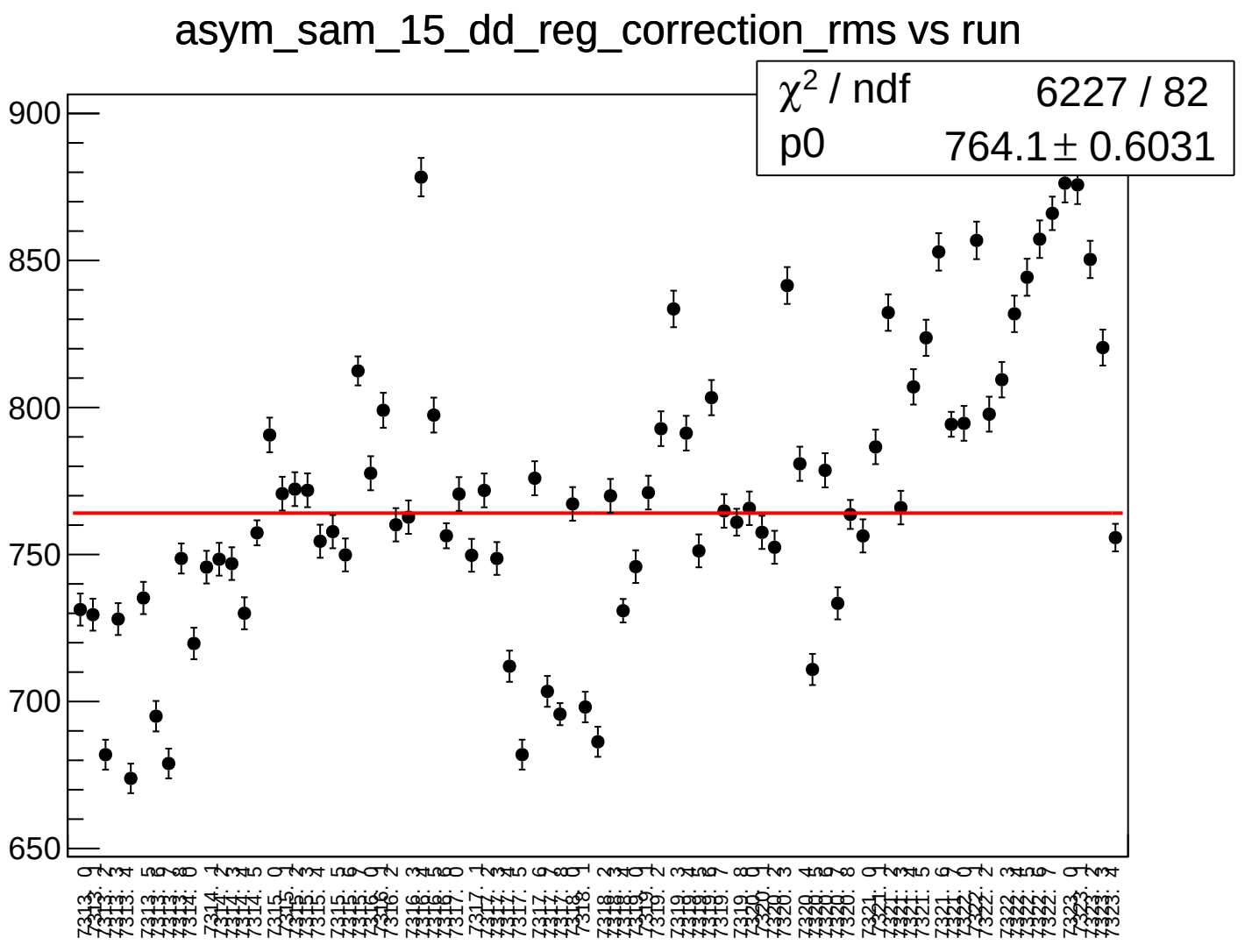

reg_asym_sam_15_dd_mean vs run
χ² / ndf 92.47 / 82
p0 −308.8 ± 127.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −89
Std Dev 0
2
1
0
−1
−2
−3

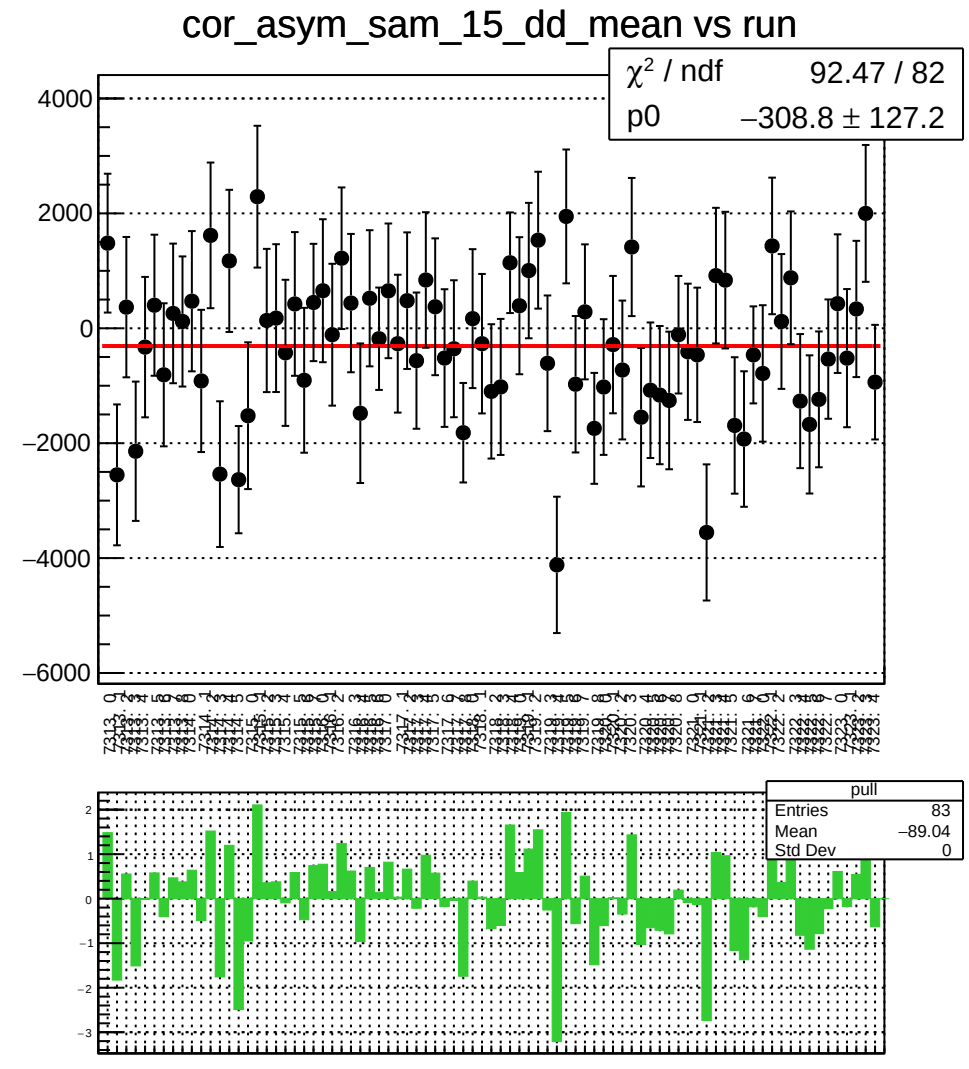

pull1D
Entries 83
Mean 0.01392
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

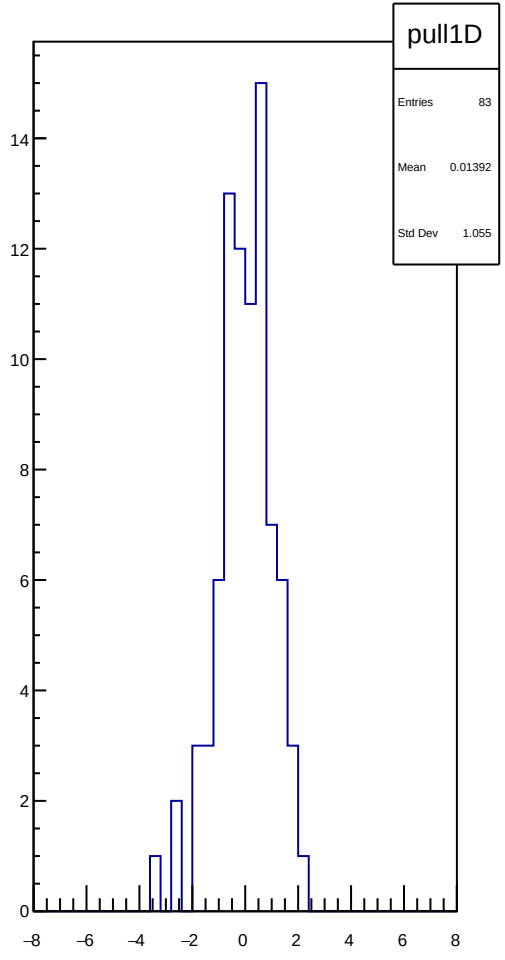

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 873 / 82
p0 114.2 ± 0.08995
124
122
120
118
116
114
112
110
108

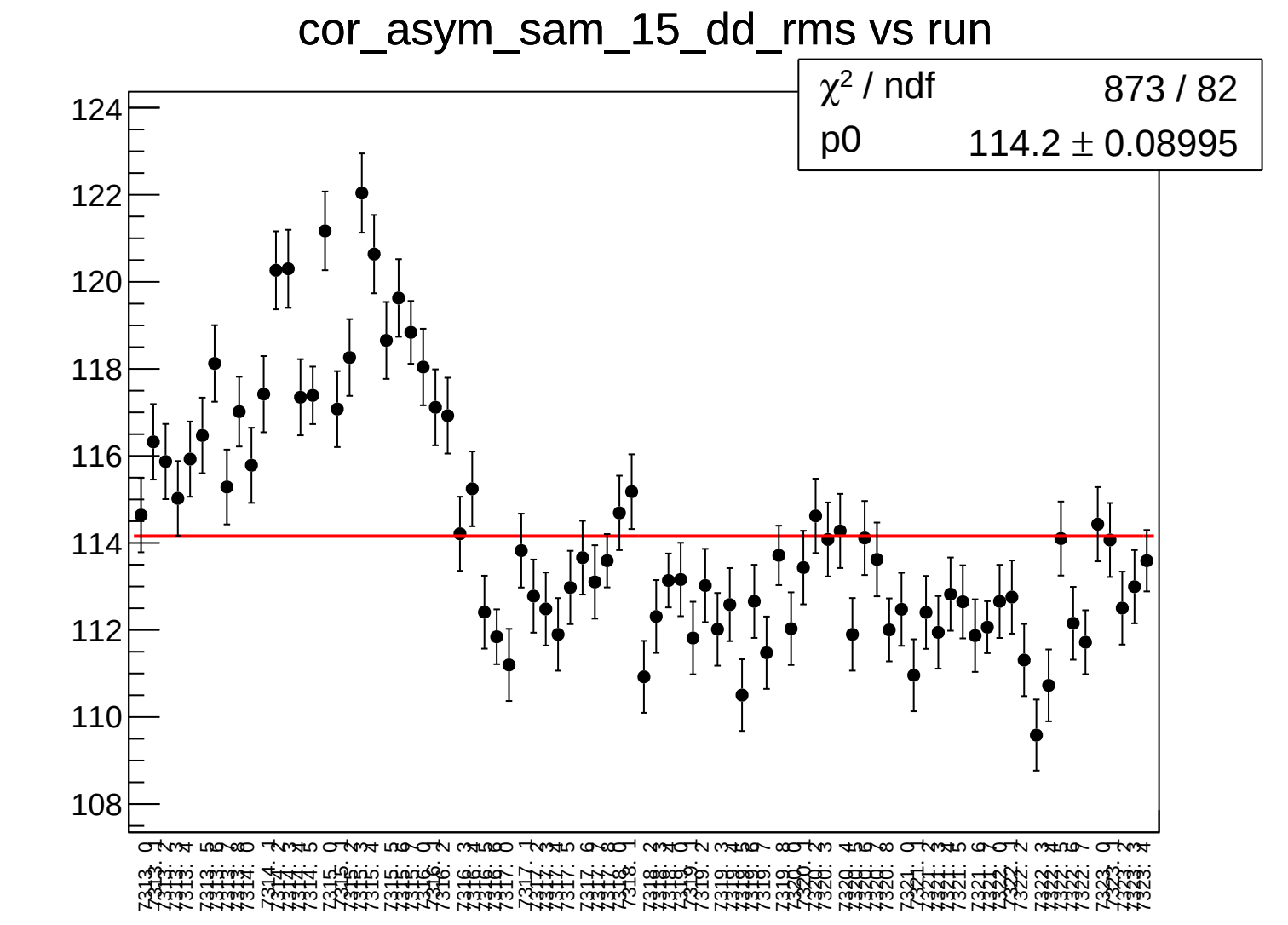

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 65.7 / 82
p0 −341.6 ± 852.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 179.7
Std Dev 0
2
1
0
−1
−2
−3

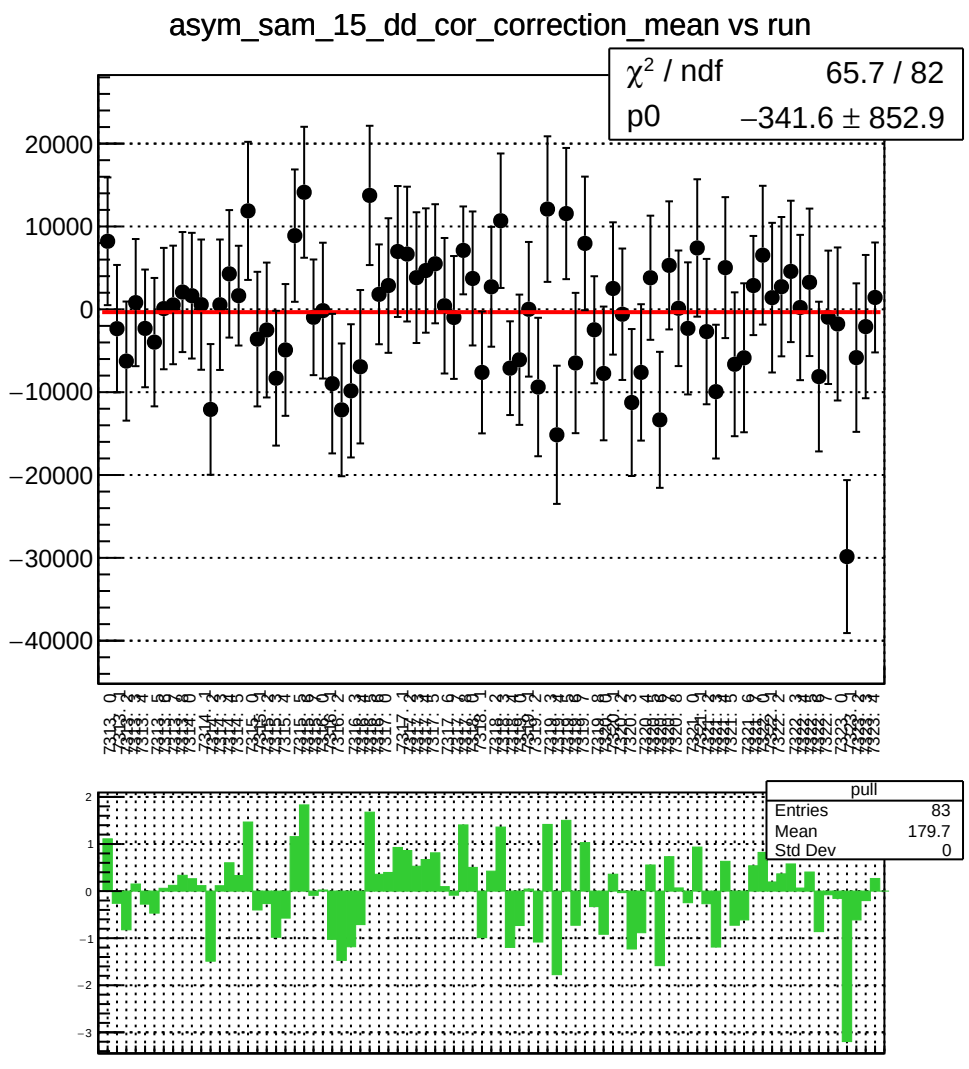

pull1D
Entries 83
Mean −0.01844
Std Dev 0.8895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

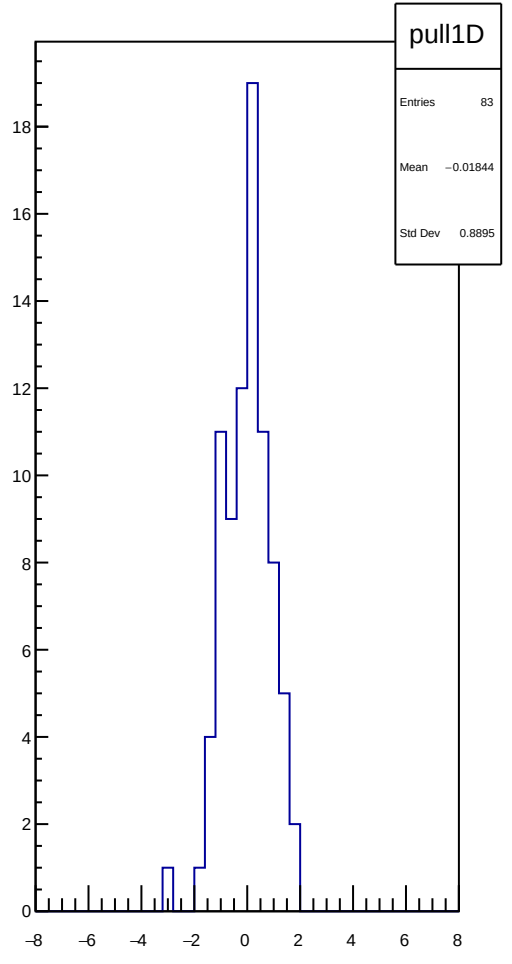

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 6227 / 82
p0 764.1 ± 0.6031
900
850
800
750
700
650

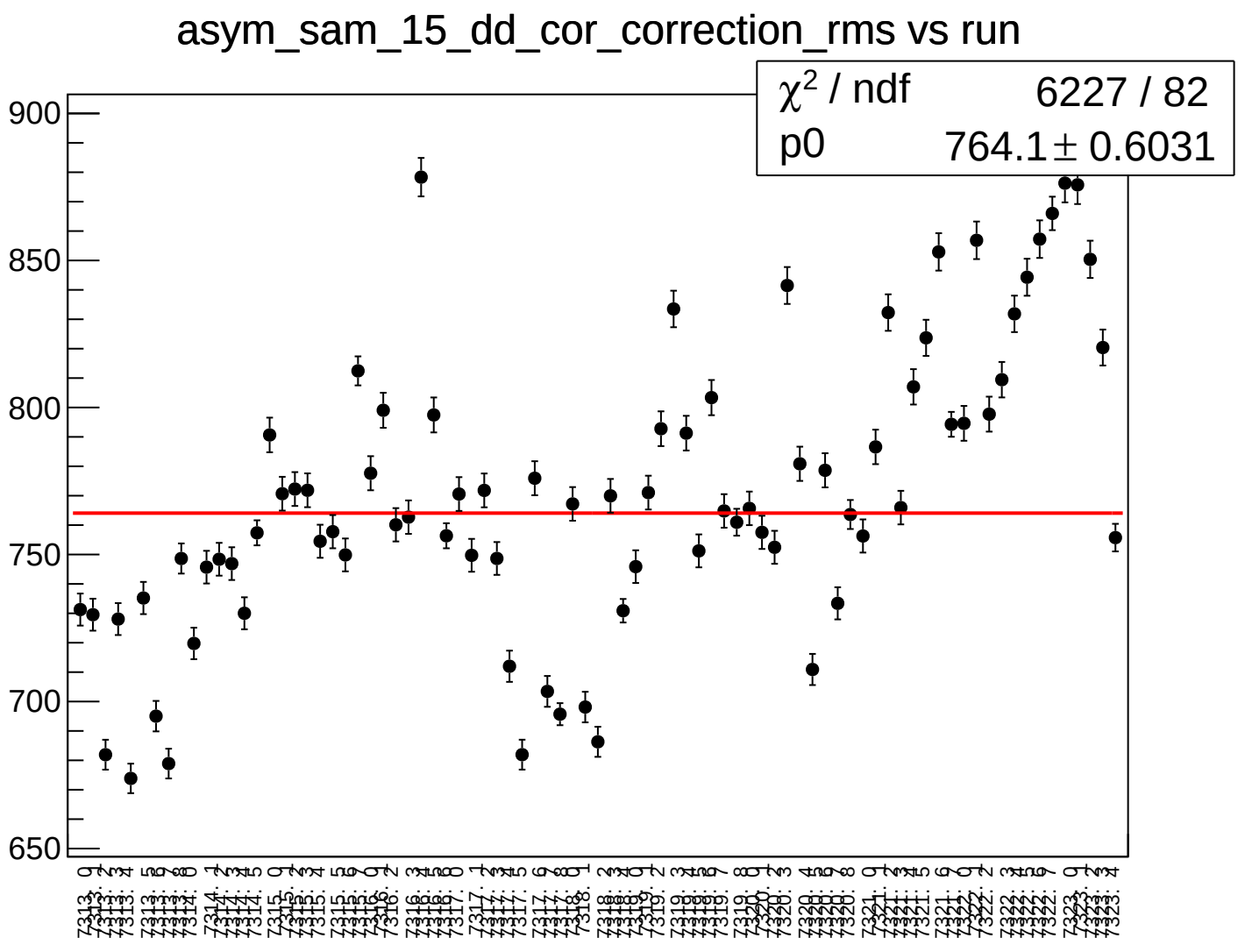

cor_asym_sam_15_dd_mean vs run
χ² / ndf 92.47 / 82
p0 −308.8 ± 127.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −89.04
Std Dev 0
2
1
0
−1
−2
−3

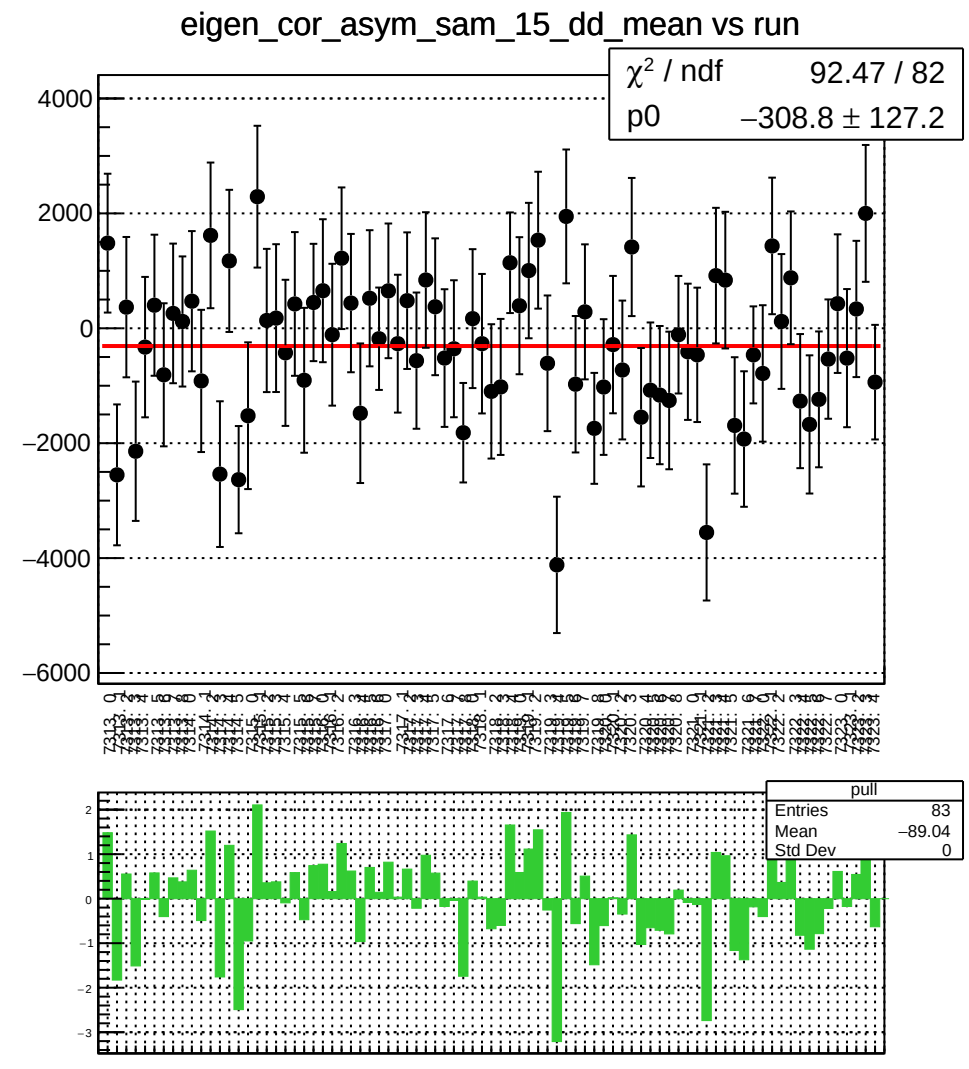

pull1D
Entries 83
Mean 0.01392
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

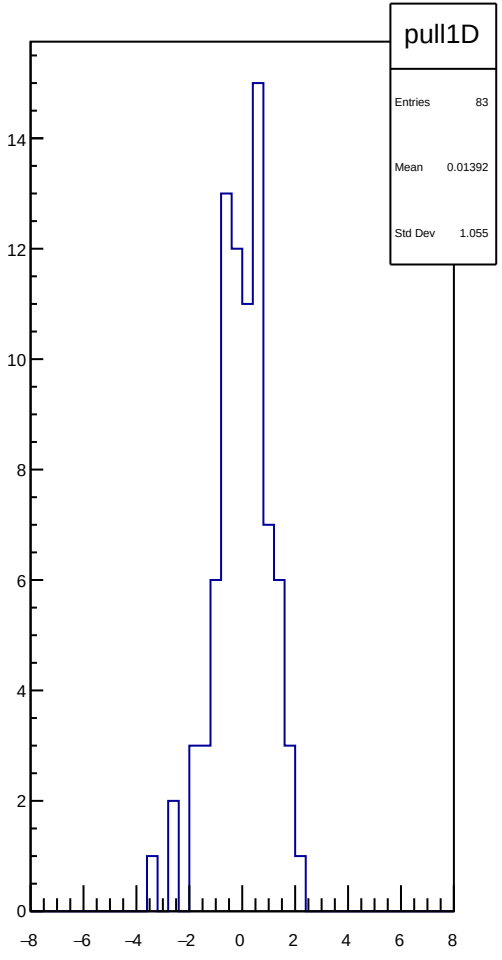

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 873 / 82
p0 114.2 ± 0.08995
124
122
120
118
116
114
112
110
108

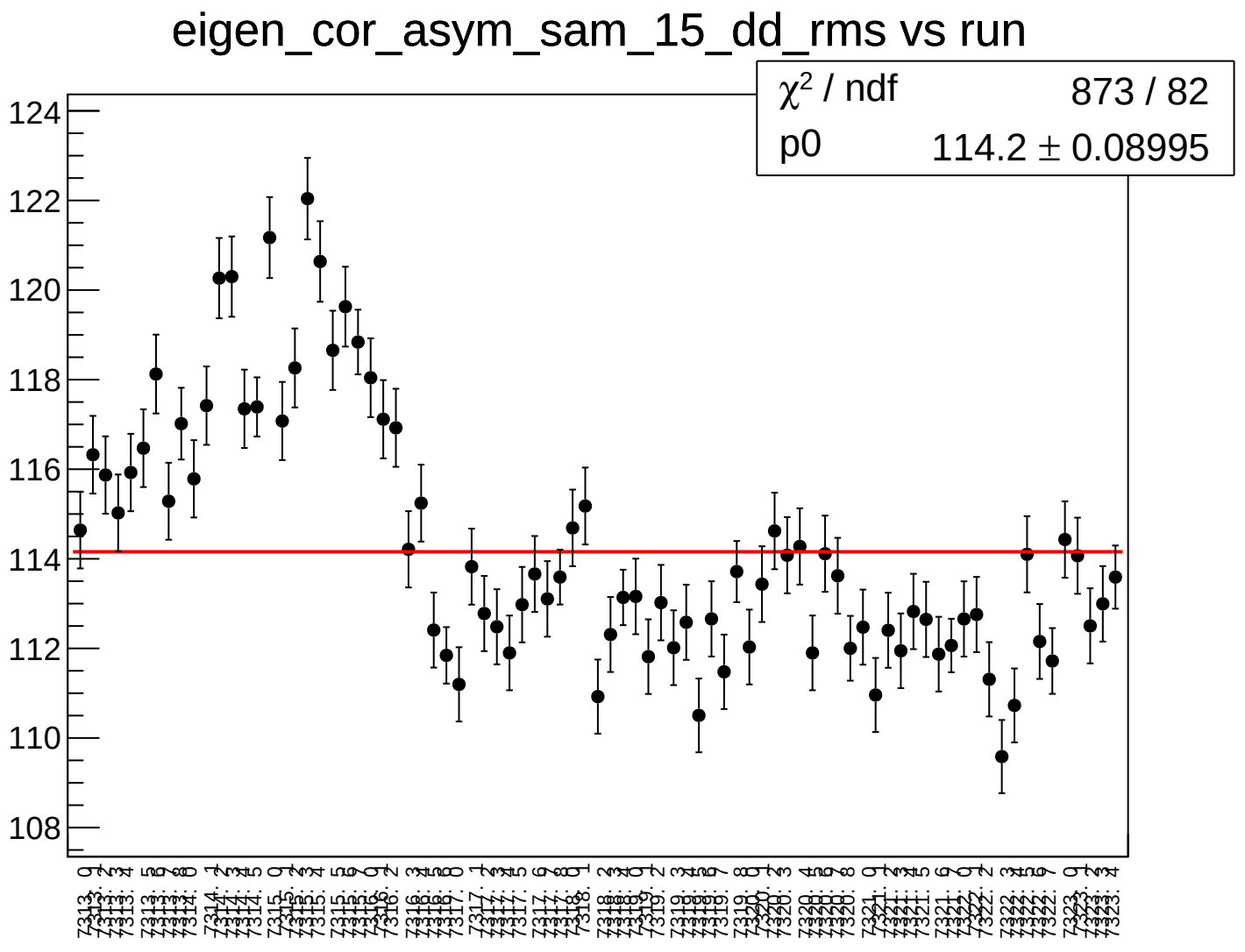

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 65.7 / 82
p0 −341.6 ± 852.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 179.7
Std Dev 0
2
1
0
−1
−2
−3

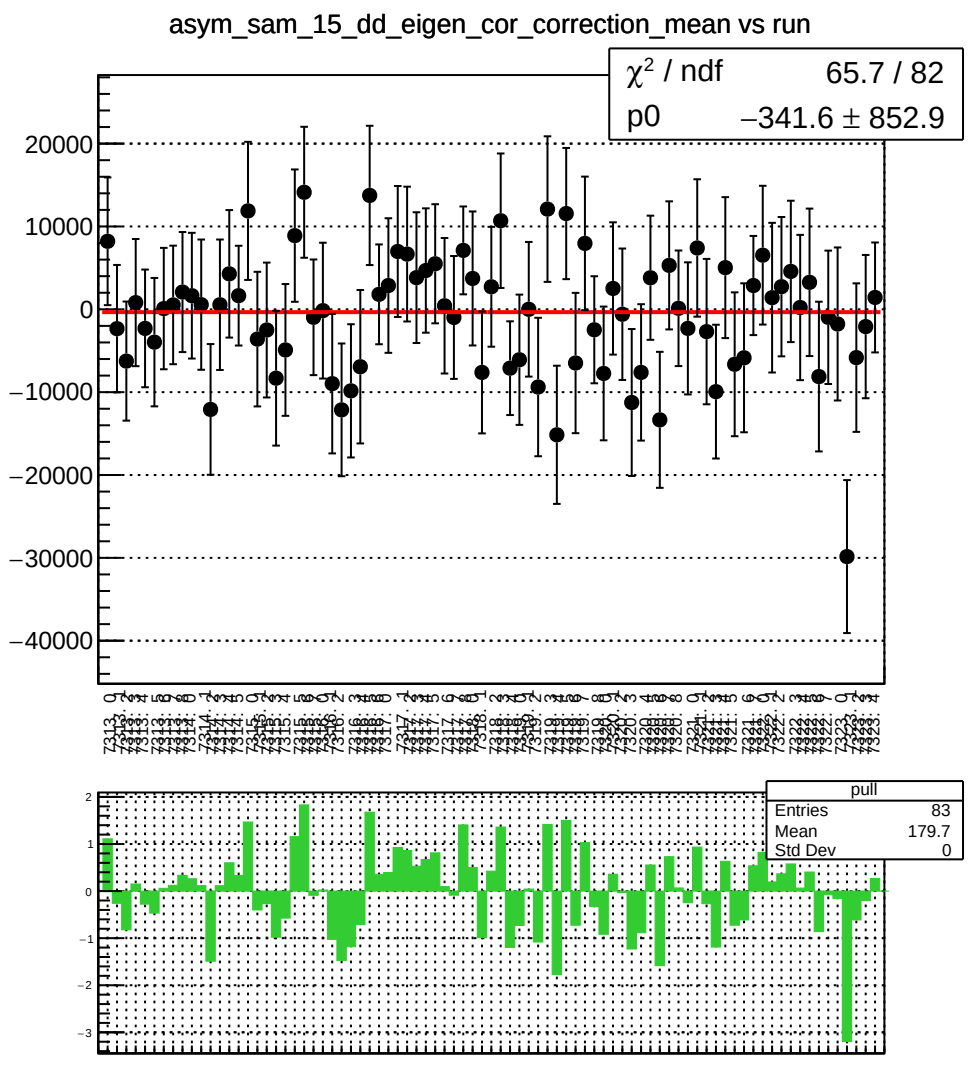

pull1D
Entries 83
Mean −0.01844
Std Dev 0.8895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

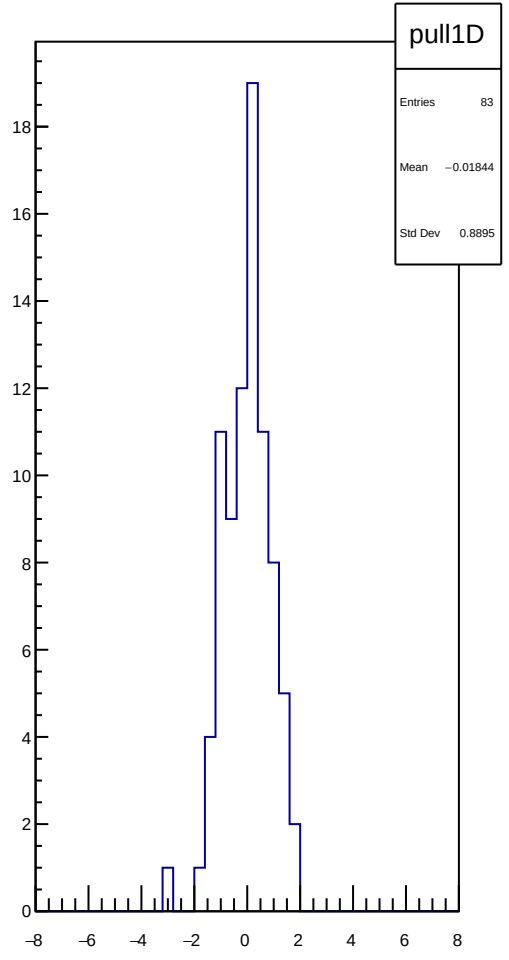

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 6227 / 82
p0 764.1 ± 0.6031
900
850
800
750
700
650

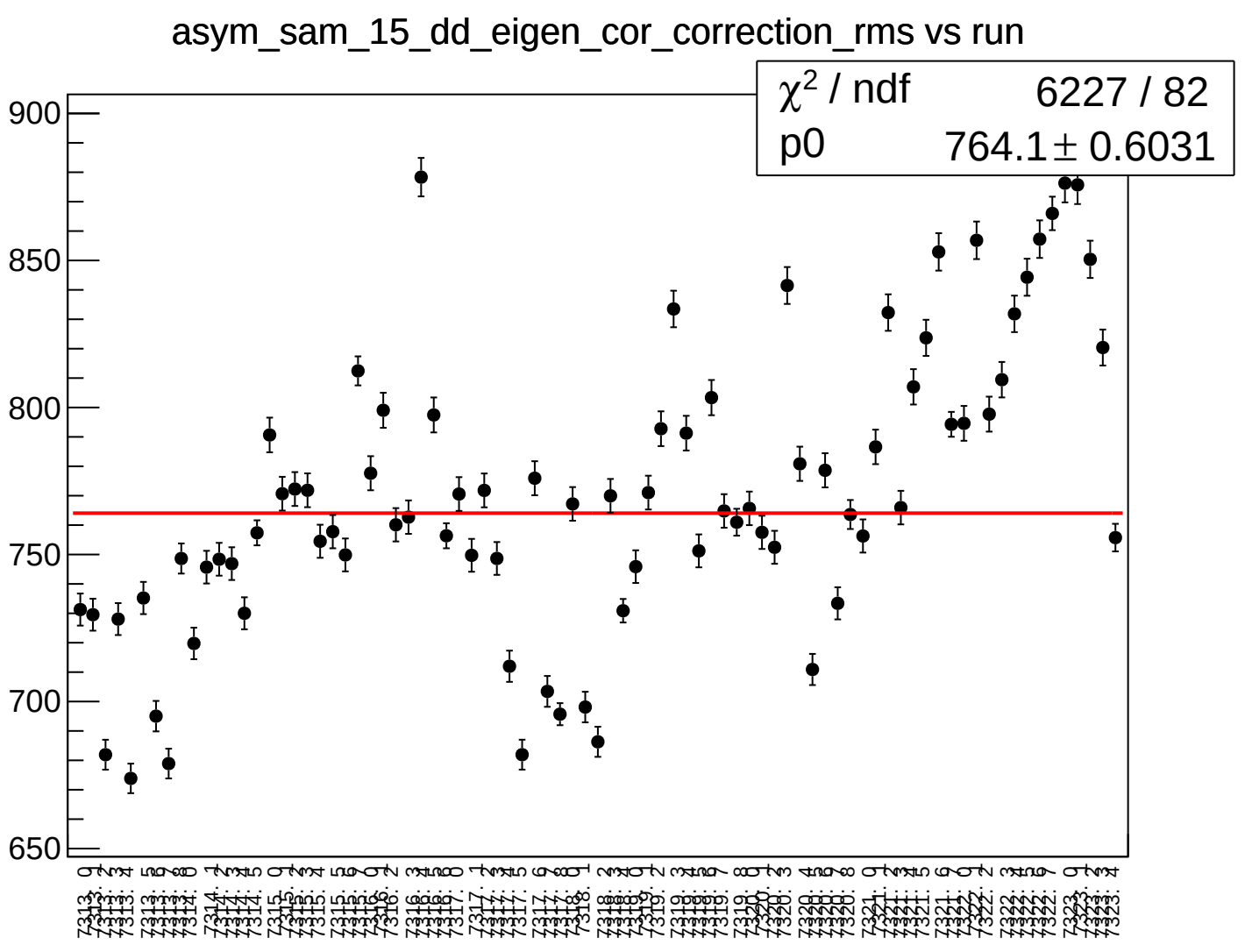

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 92.47 / 82
p0 −308.8 ± 127.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −89.04
Std Dev 0
2
1
0
−1
−2
−3

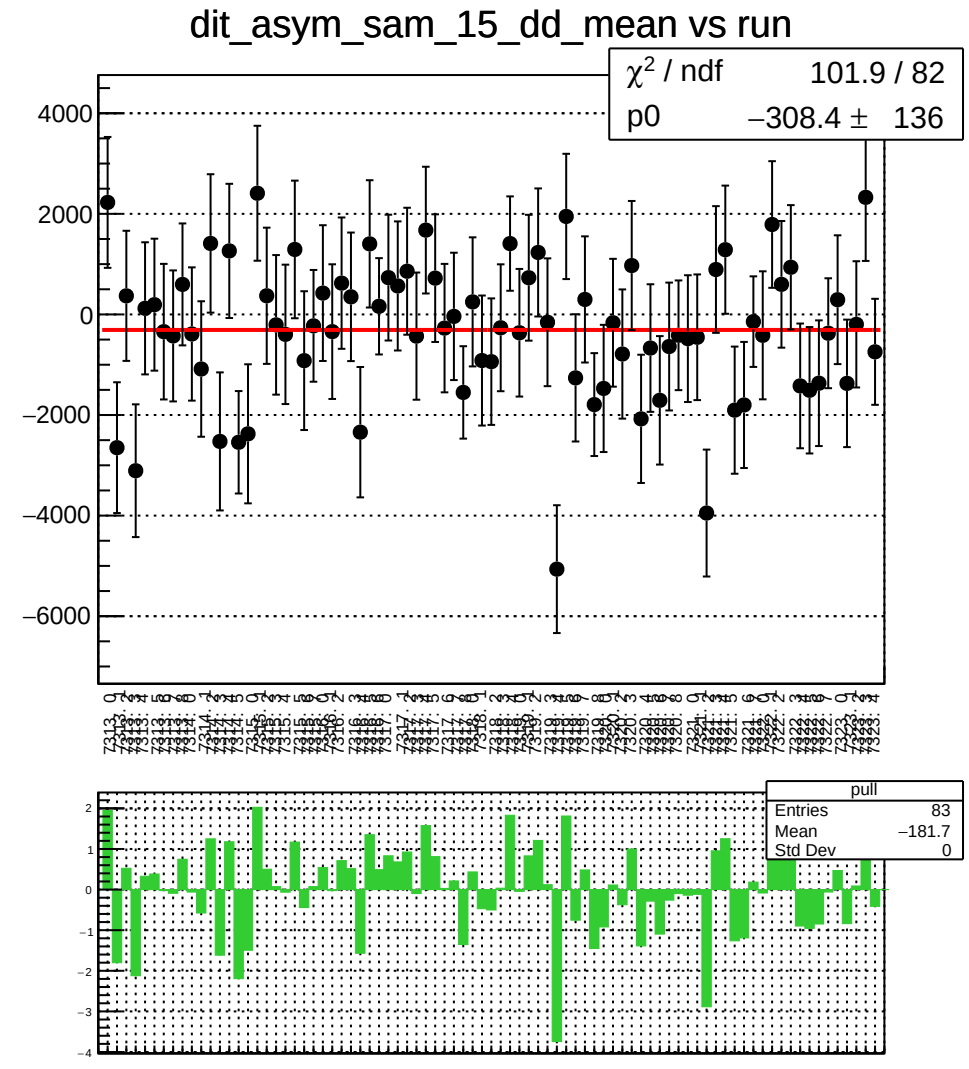

pull1D
Entries 83
Mean 0.01392
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

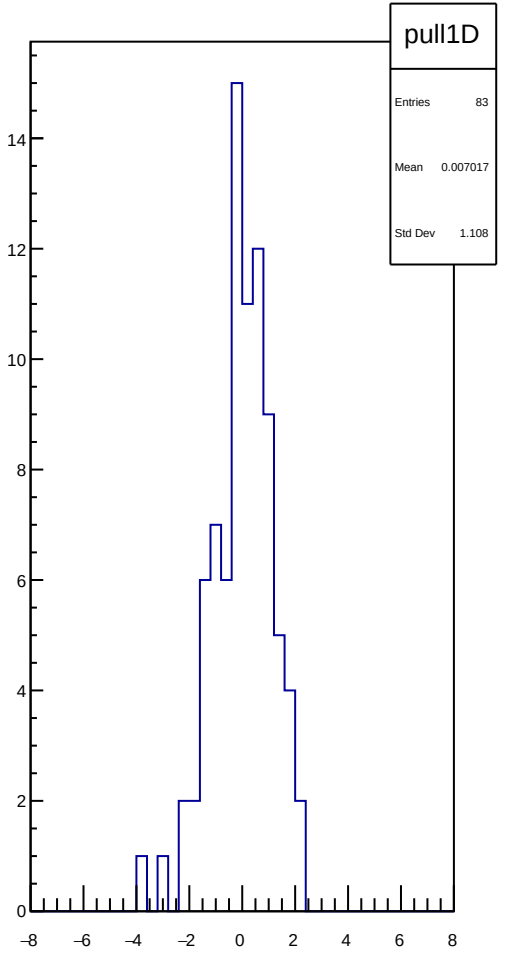

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 873 / 82
p0 114.2 ± 0.08995
124
122
120
118
116
114
112
110
108


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.7 / 82
p0 −341.6 ± 852.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 179.7
Std Dev 0
2
1
0
−1
−2
−3

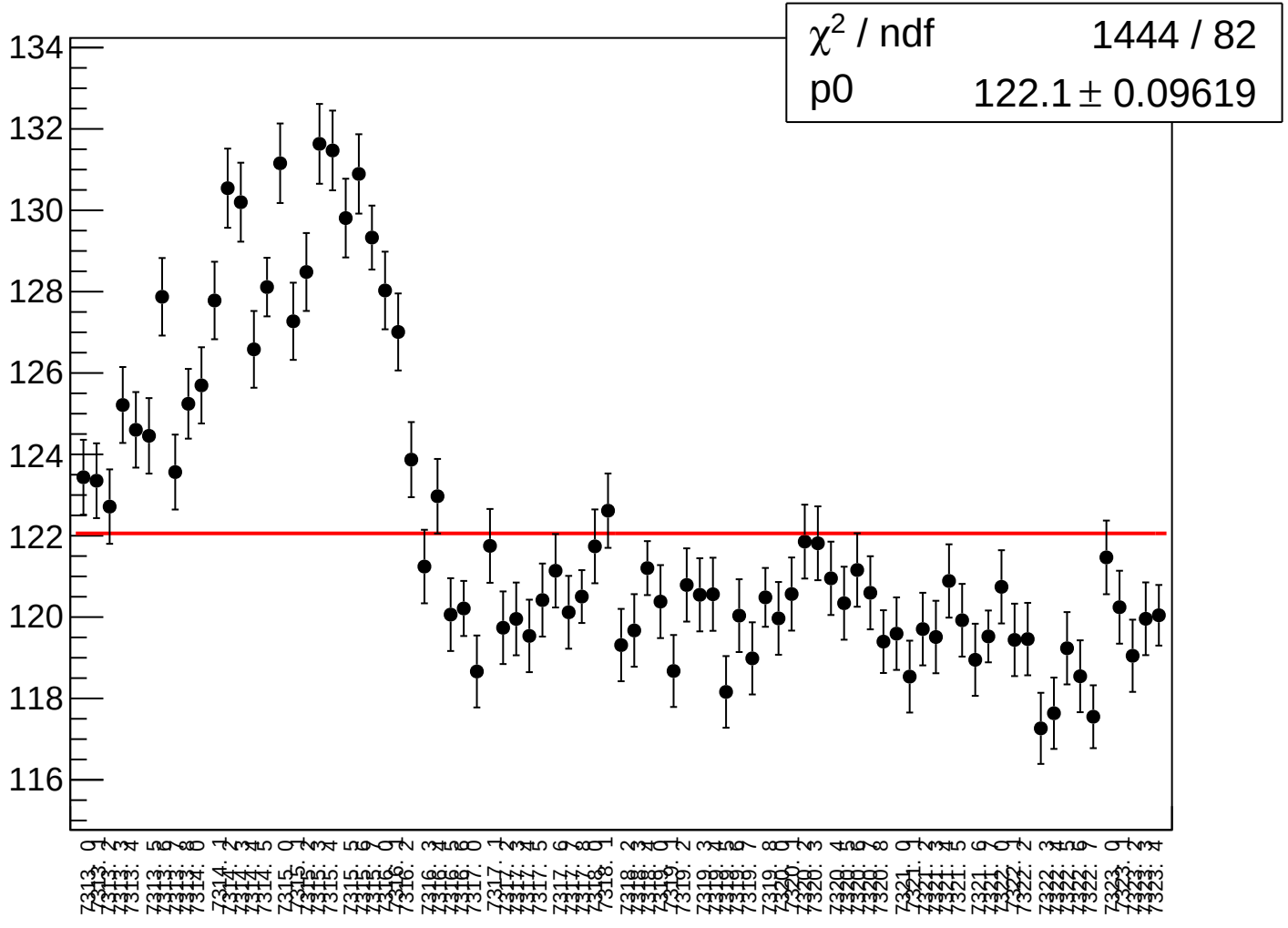

pull1D
Entries 83
Mean −0.01844
Std Dev 0.8895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

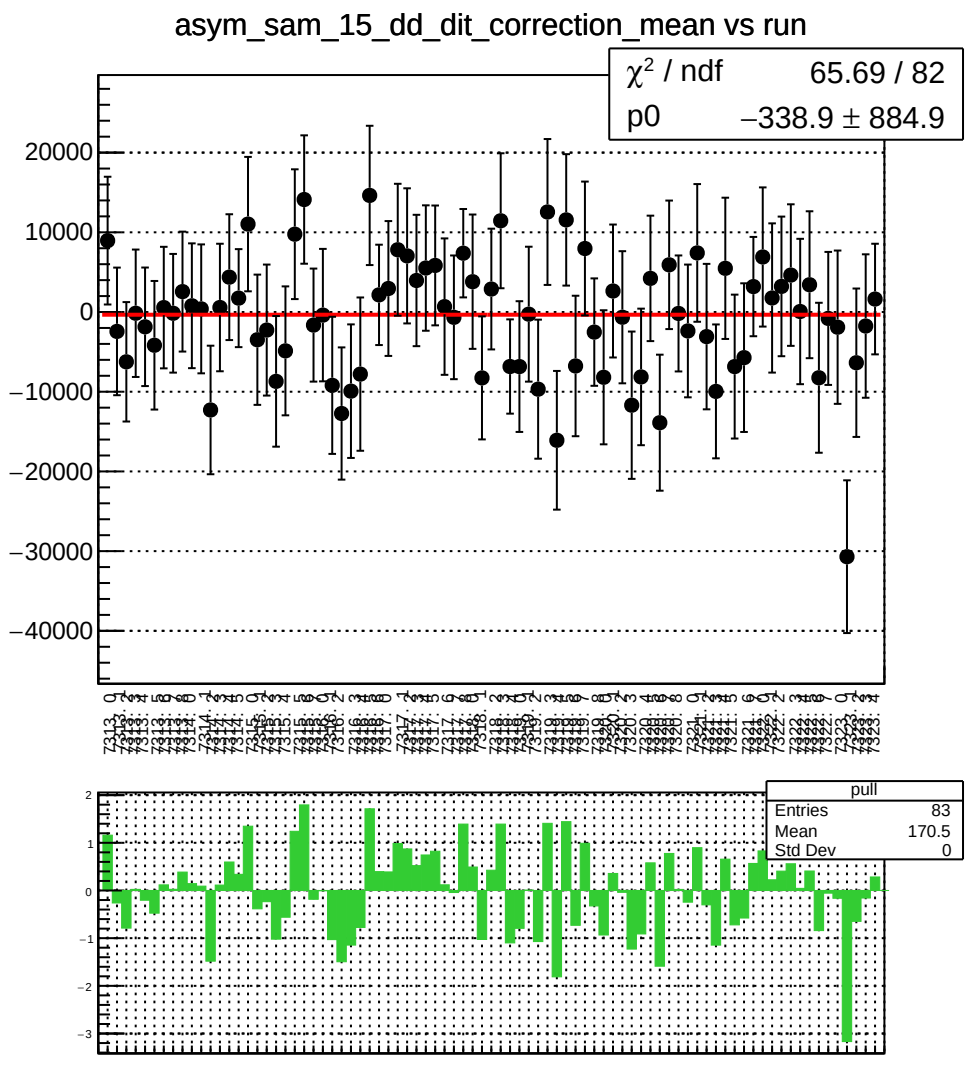

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 6227 / 82
p0 764.1 ± 0.6031
900
850
800
750
700
650

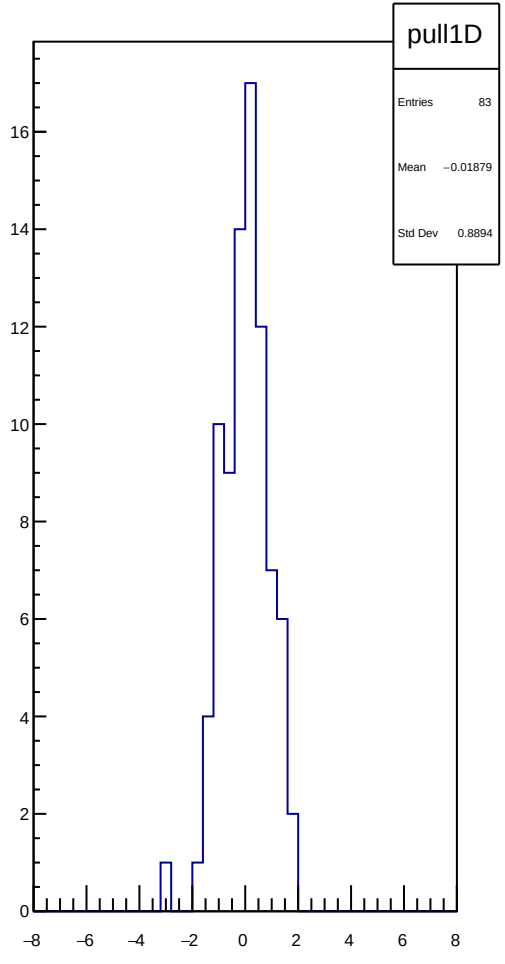

dit_asym_sam_15_dd_mean vs run
χ² / ndf 101.9 / 82
p0 −308.4 ± 136
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −181.7
Std Dev 0
2
1
0
−1
−2
−3
−4

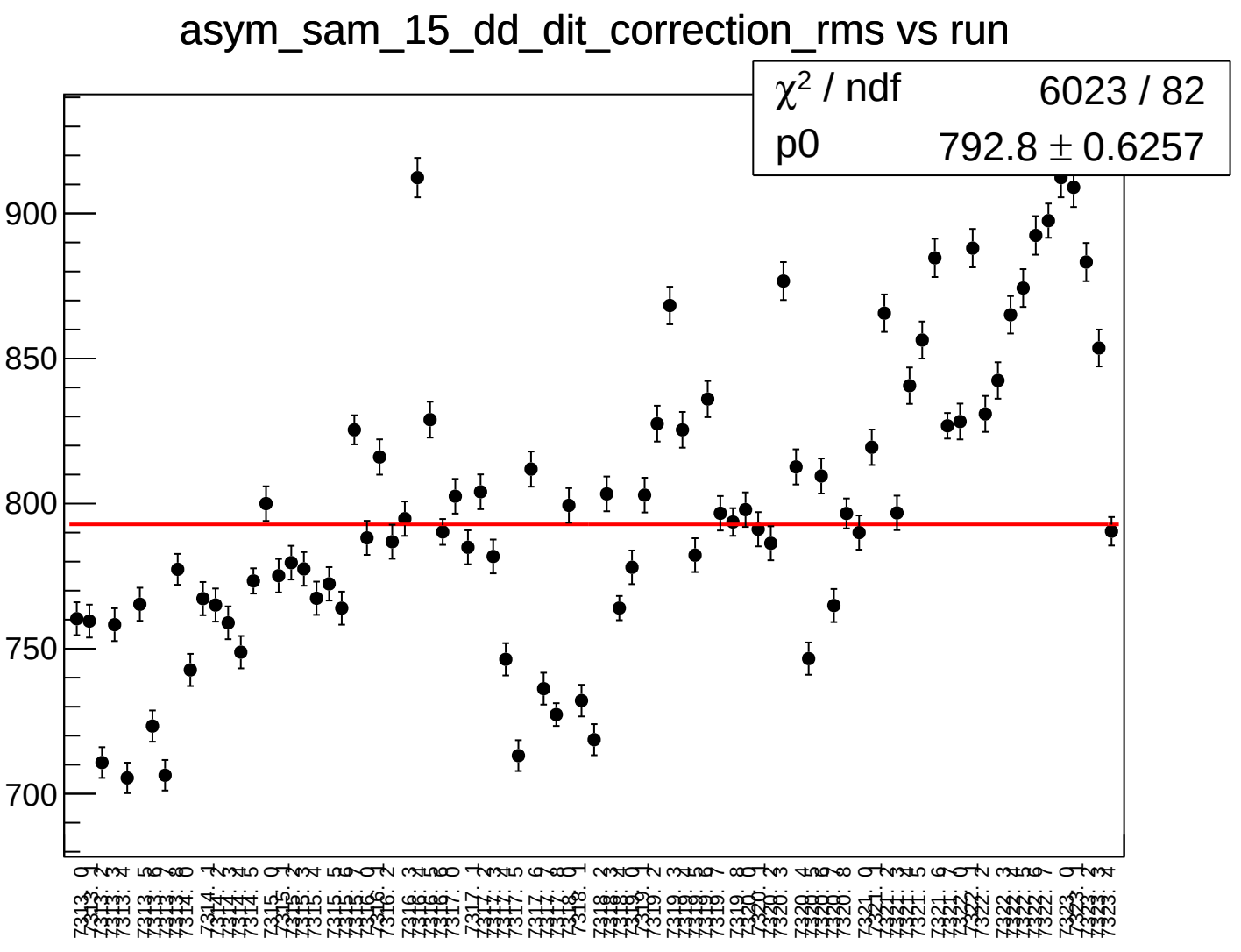

pull1D
Entries 83
Mean 0.007017
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

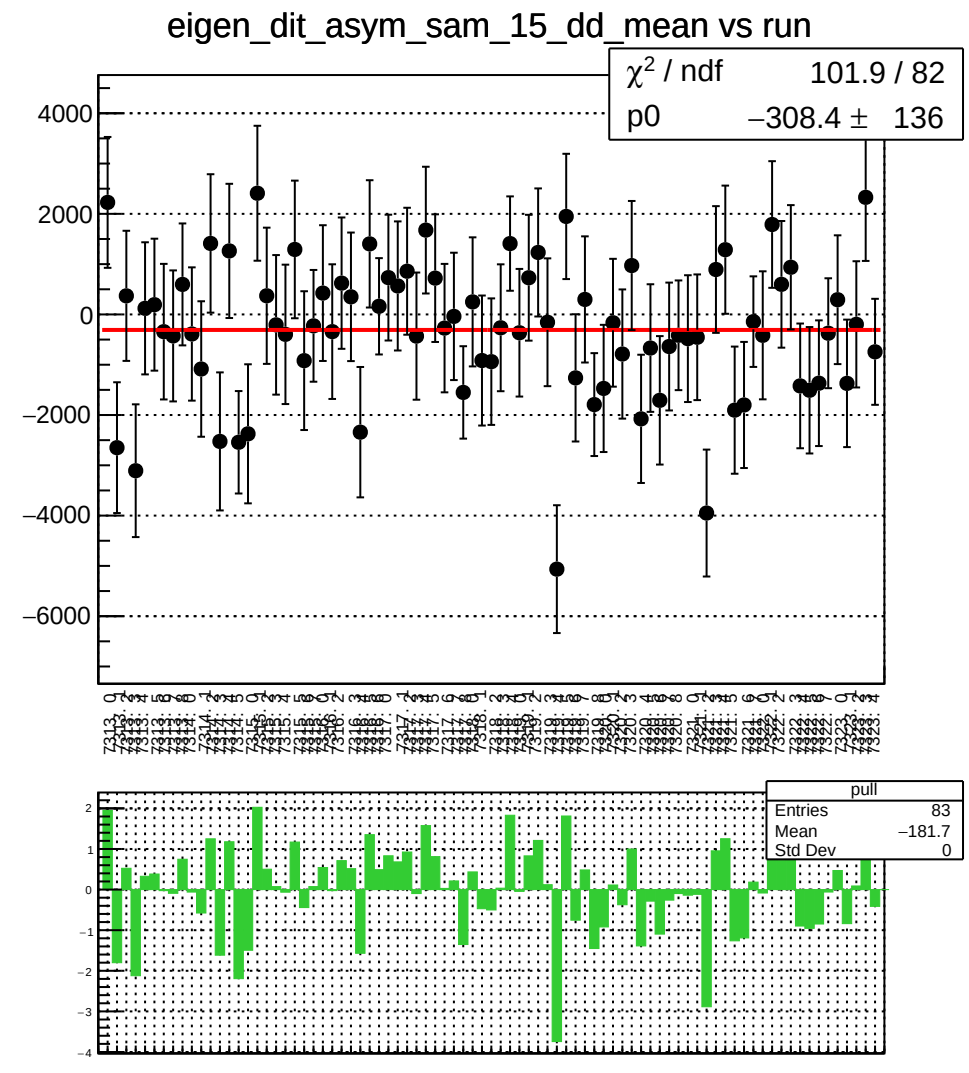
dit_asym_sam_15_dd_rms vs run

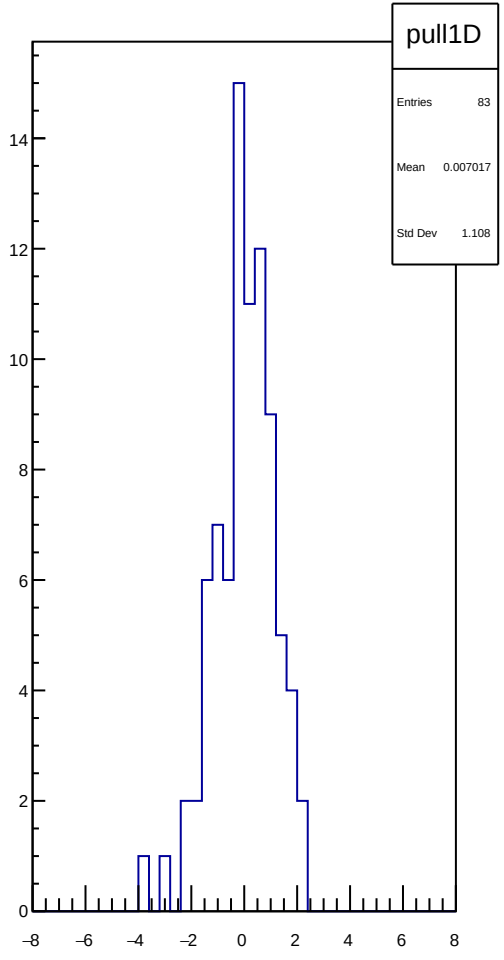


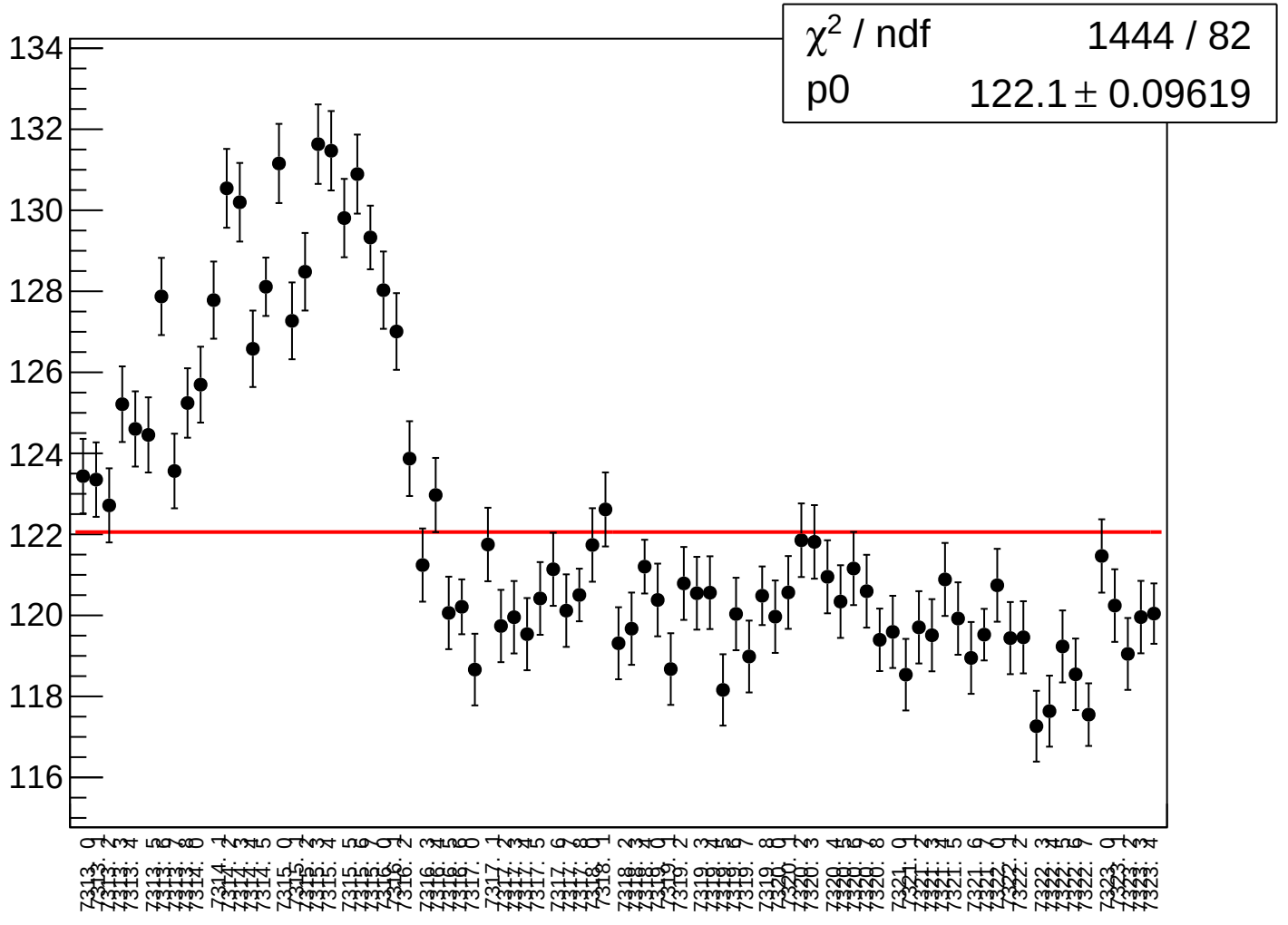

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 65.69 / 82
p0 −338.9 ± 884.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 170.5
Std Dev 0
2
1
0
−1
−2
−3

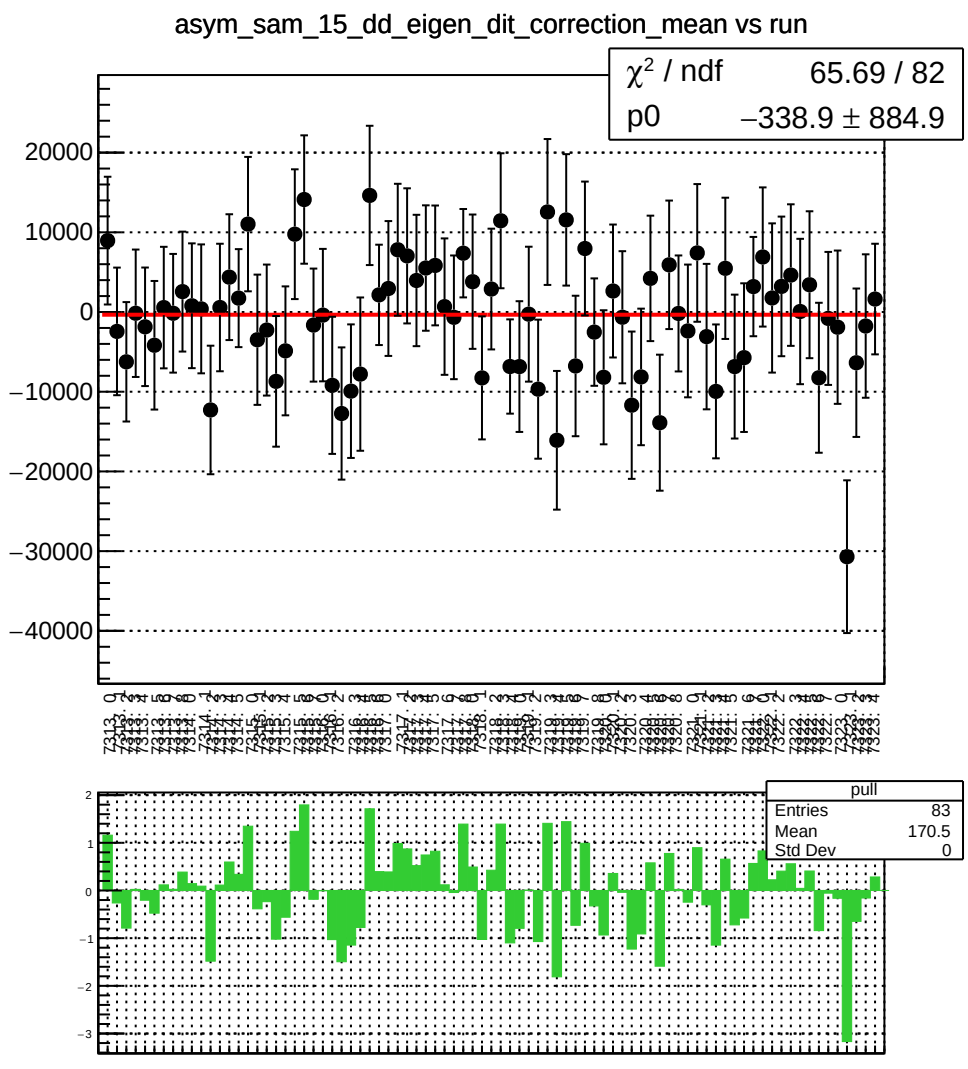

pull1D
Entries 83
Mean −0.01879
Std Dev 0.8894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

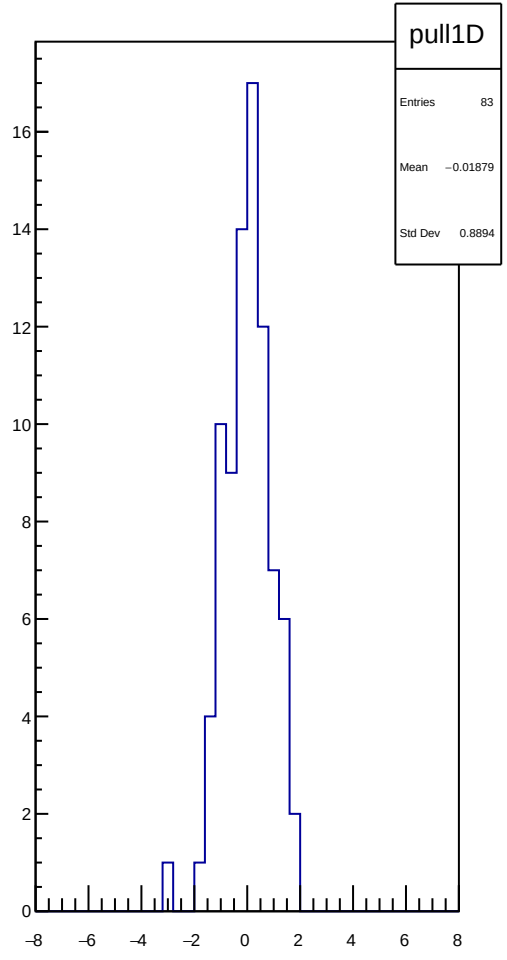

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 6023 / 82
p0 792.8 ± 0.6257
900
850
800
750
700

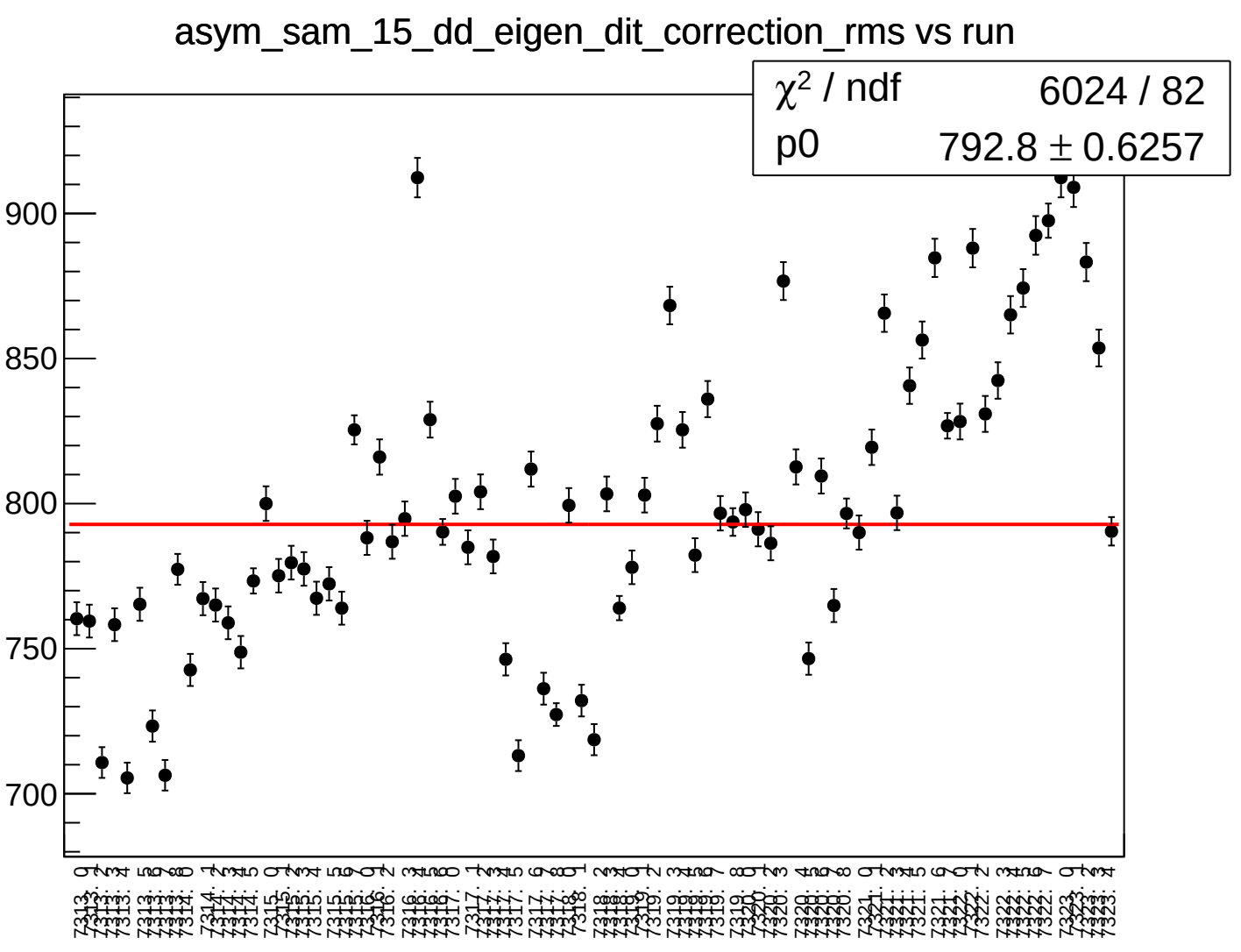

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 101.9 / 82
p0 −308.4 ± 136
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −181.7
Std Dev 0
2
1
0
−1
−2
−3
−4

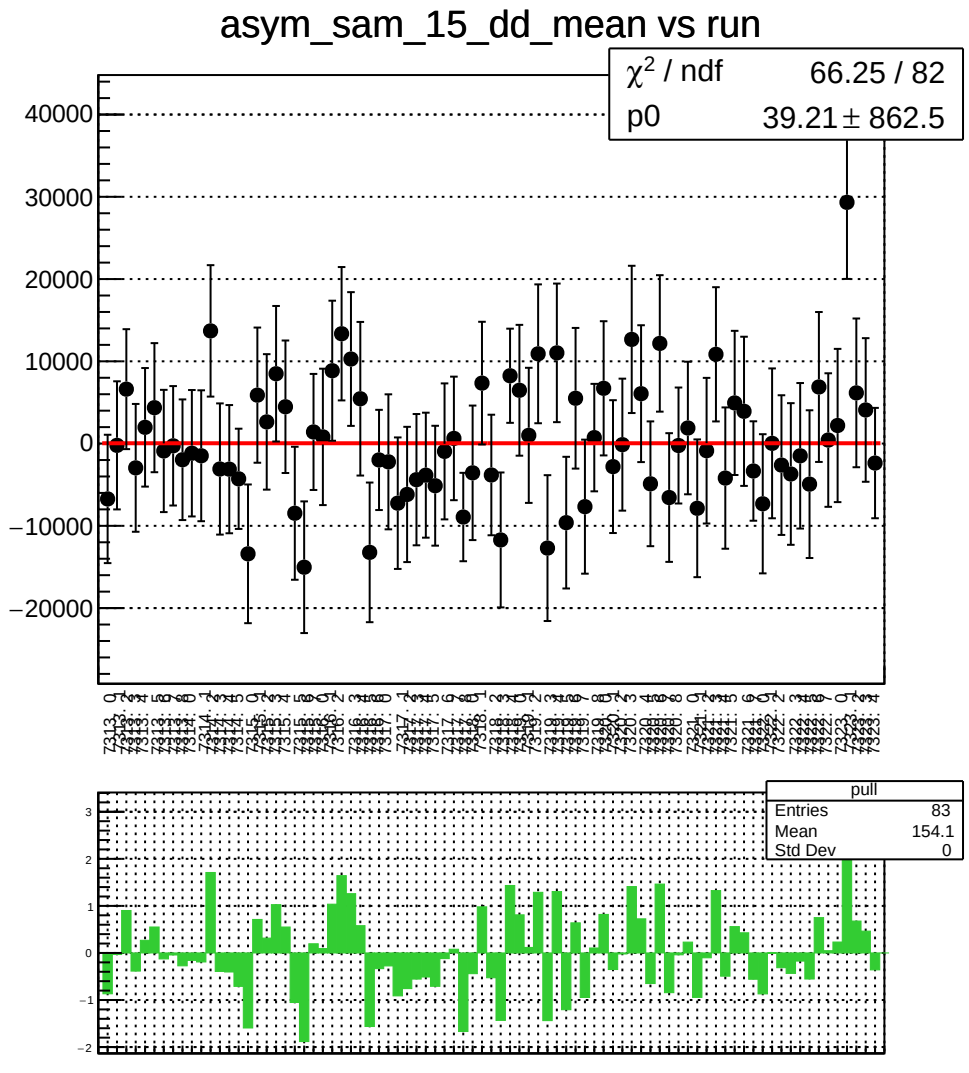

pull1D
Entries 83
Mean 0.007017
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

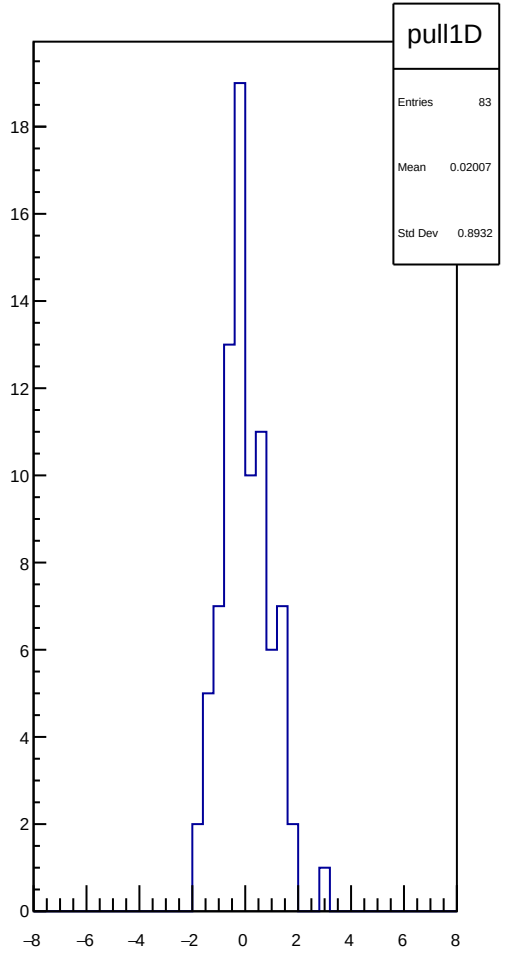

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1444 / 82
p0 122.1 ± 0.09619
134
132
130
128
126
124
122
120
118
116

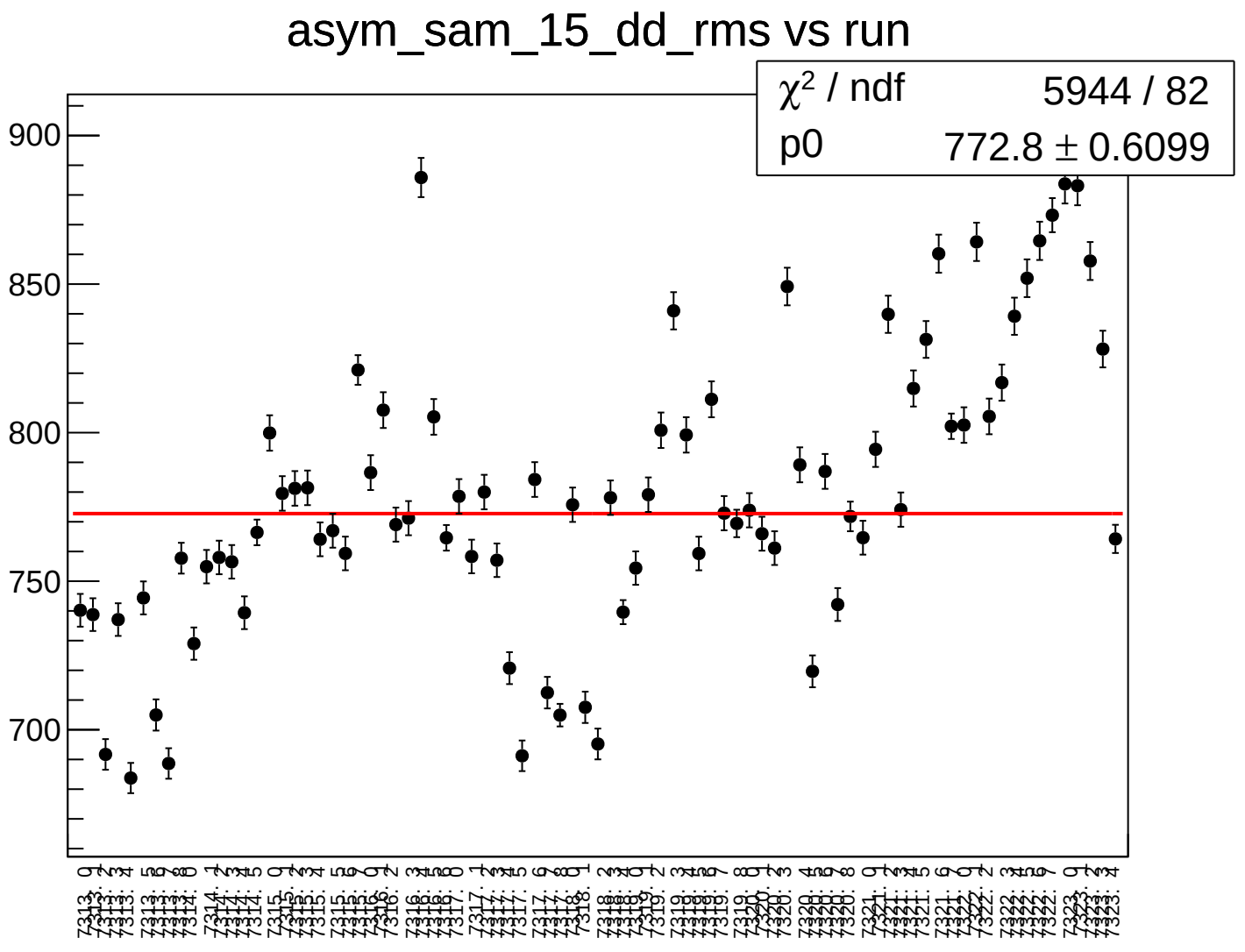

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.69 / 82
p0 −338.9 ± 884.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 170.5
Std Dev 0
2
1
0
−1
−2
−3

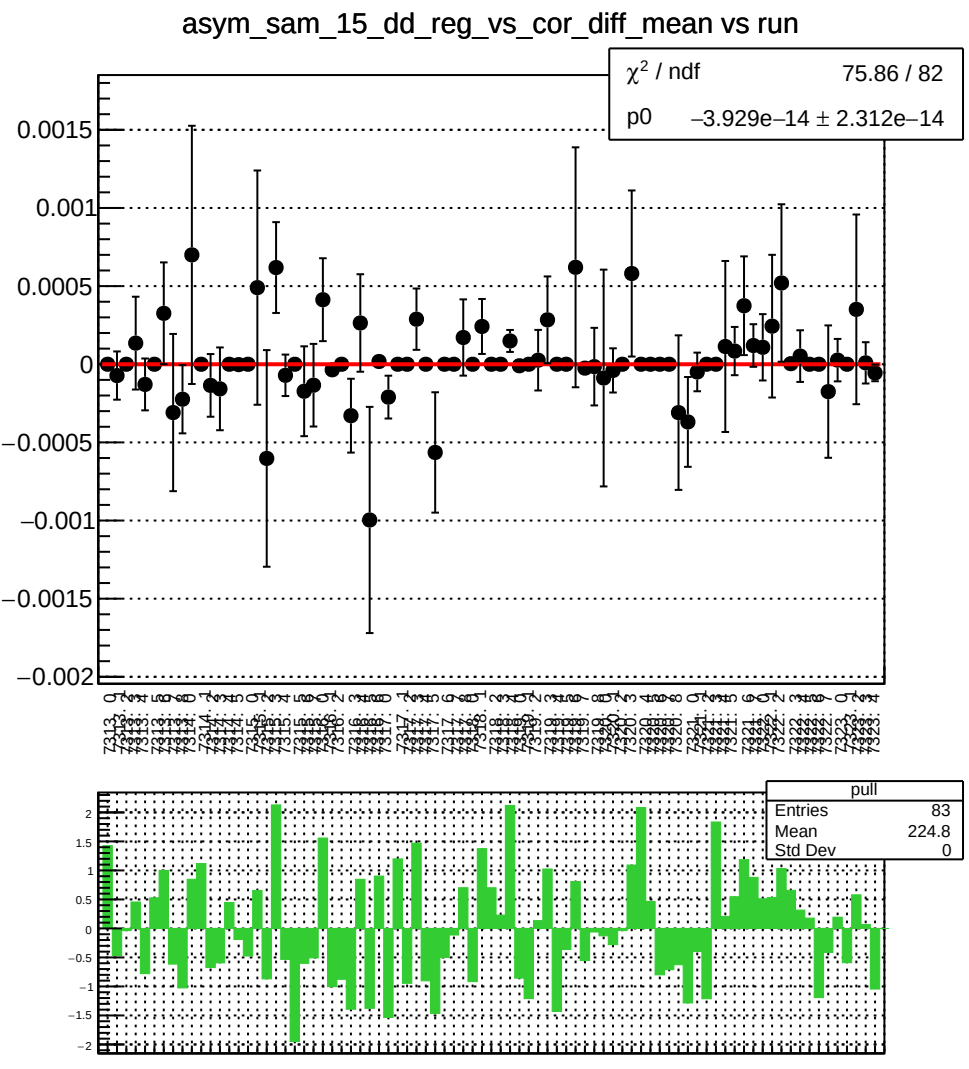

pull1D
Entries 83
Mean −0.01879
Std Dev 0.8894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

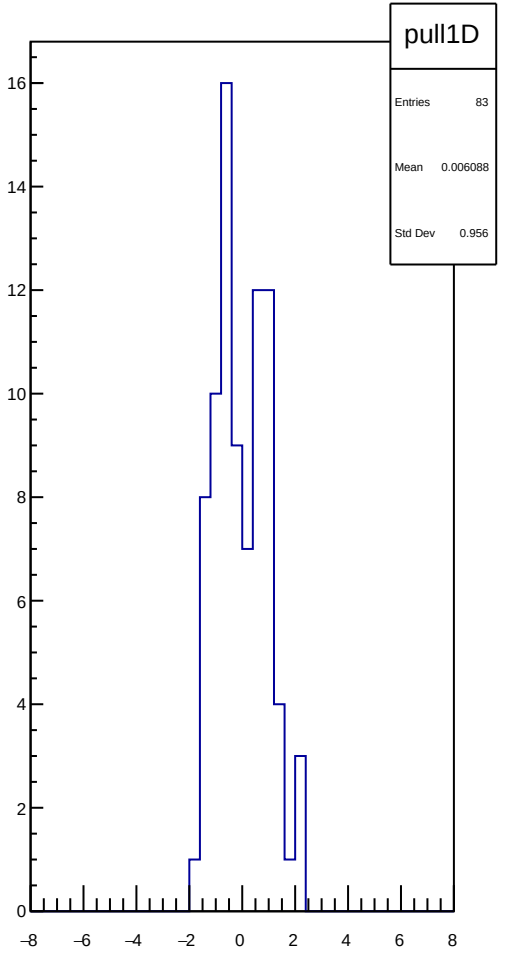

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 6024 / 82
p0 792.8 ± 0.6257
900
850
800
750
700

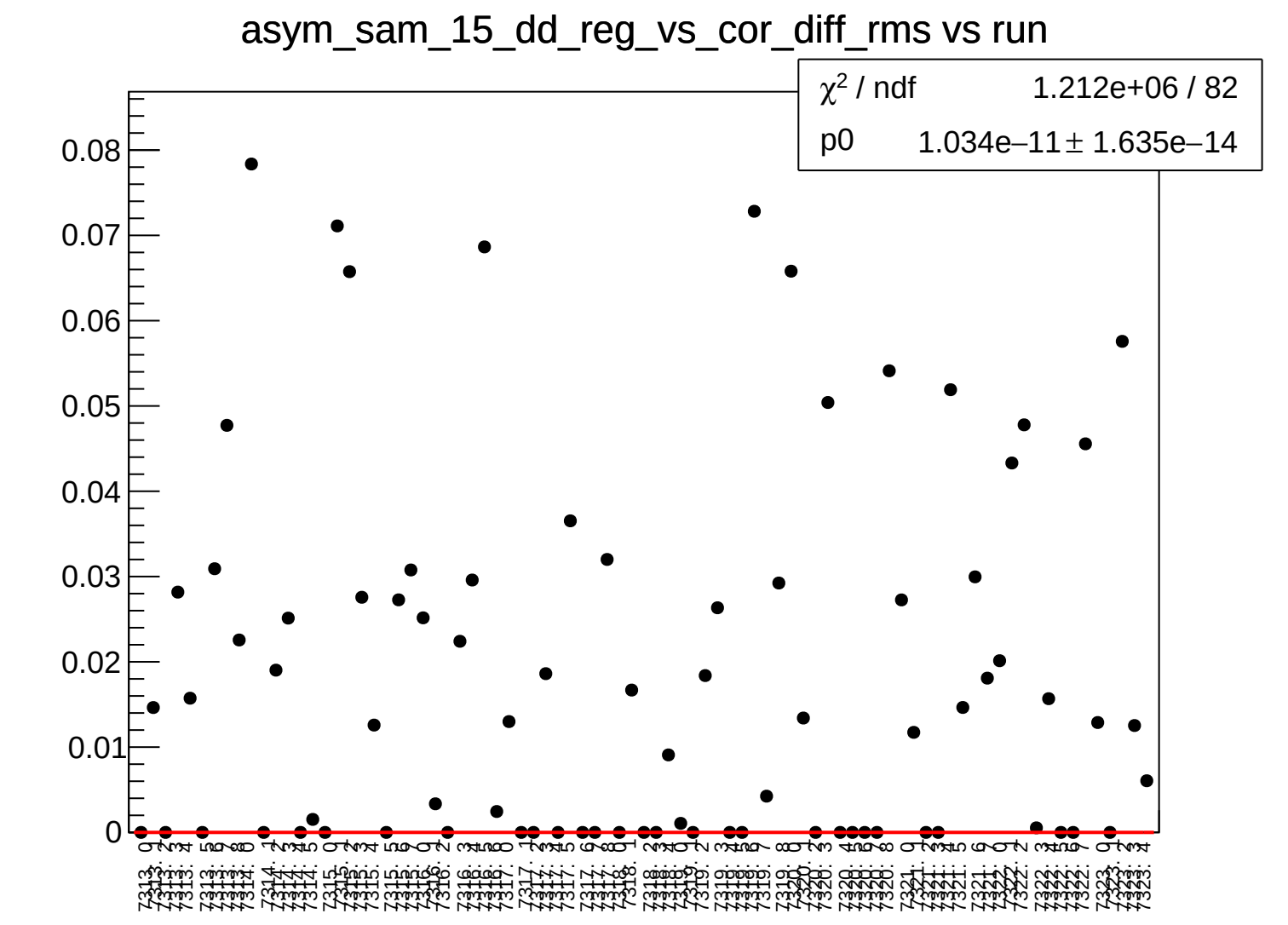

asym_sam_15_dd_mean vs run
χ² / ndf 66.25 / 82
p0 39.21 ± 862.5
pull
Entries 83
Mean 154.1
Std Dev 0

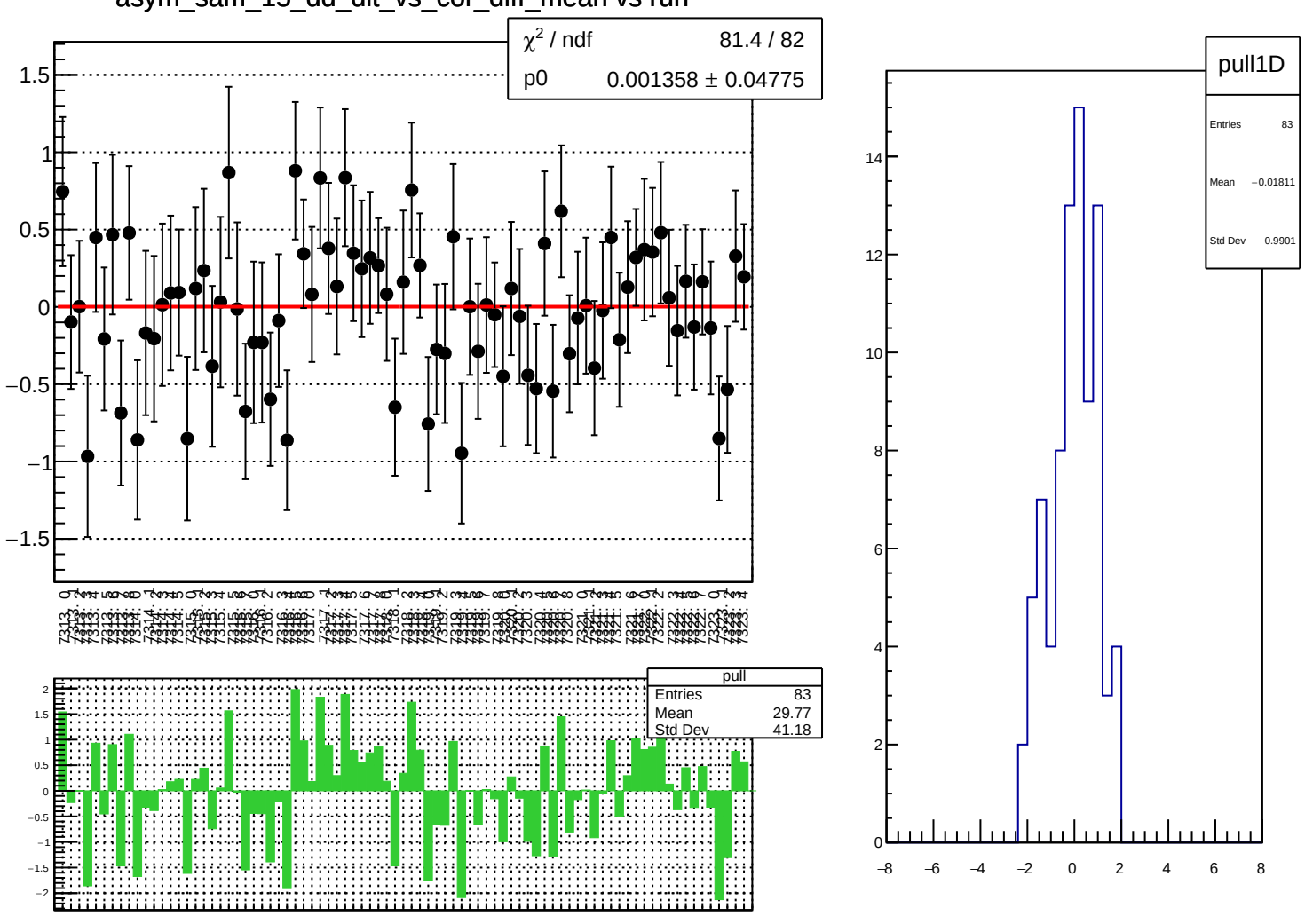

pull1D
Entries 83
Mean 0.02007
Std Dev 0.8932

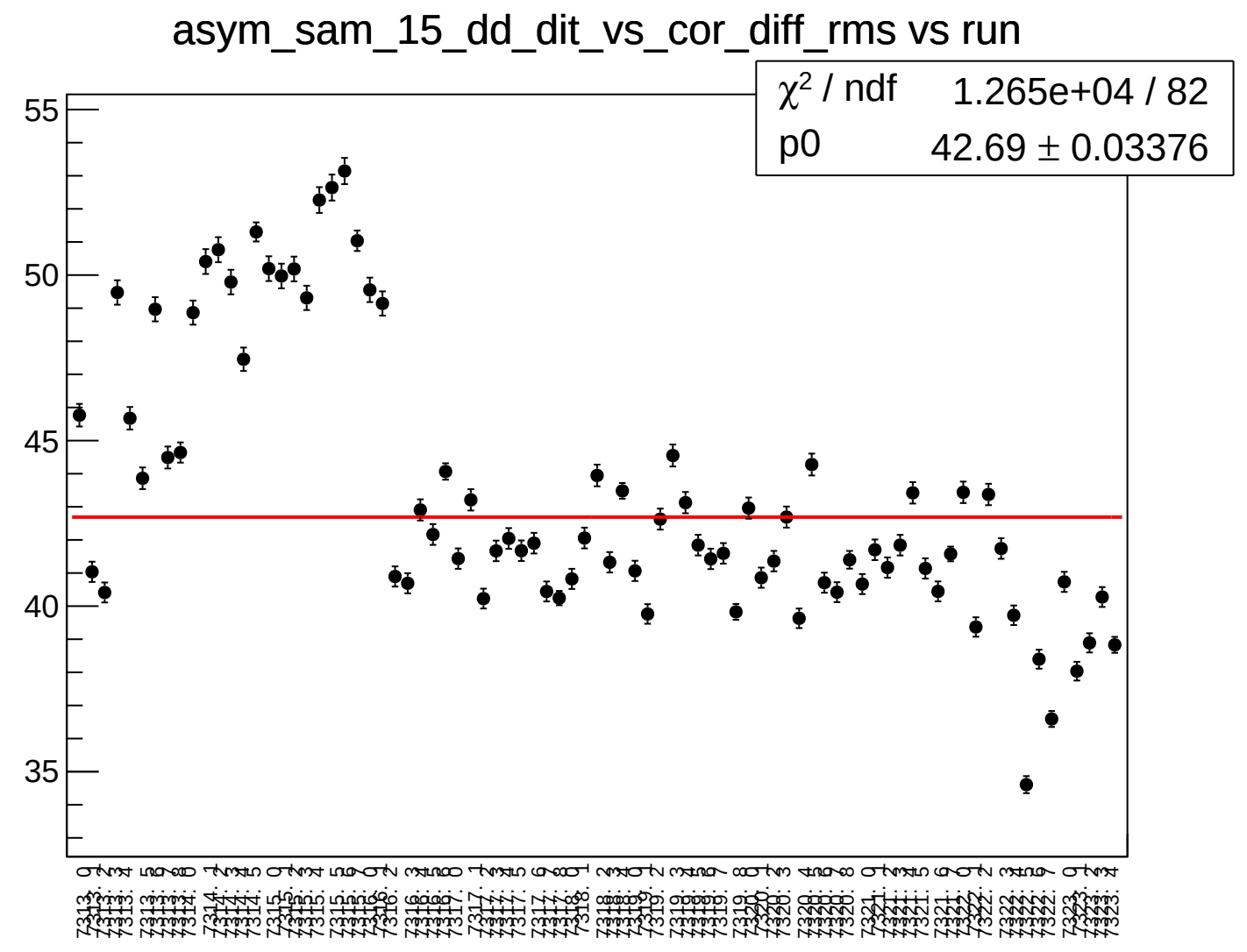

asym_sam_15_dd_rms vs run
χ² / ndf 5944 / 82
p0 772.8 ± 0.6099
900
850
800
750
700

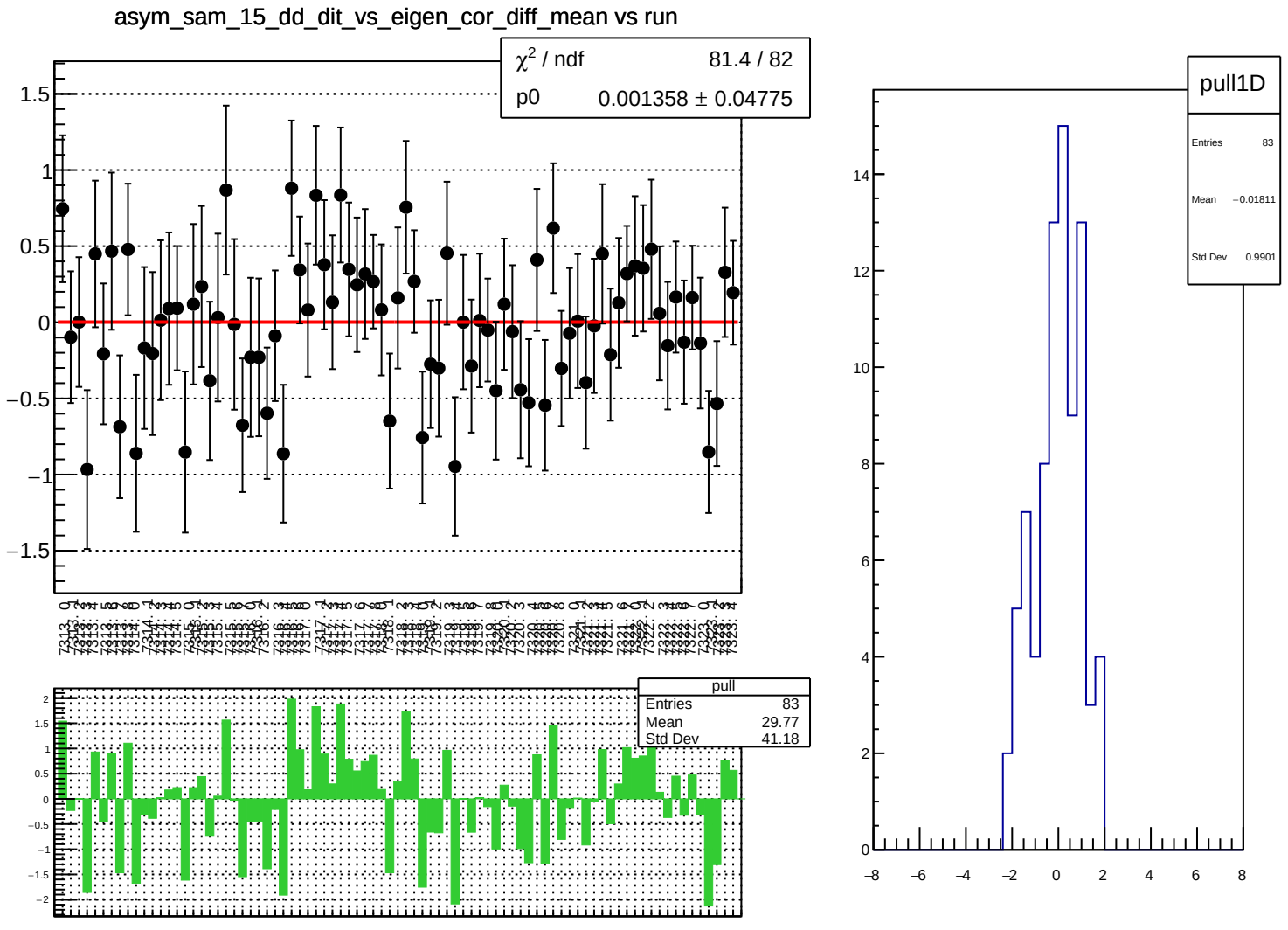

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.86 / 82
p0 −3.929e−14 ± 2.312e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 83
Mean 224.8
Std Dev 0

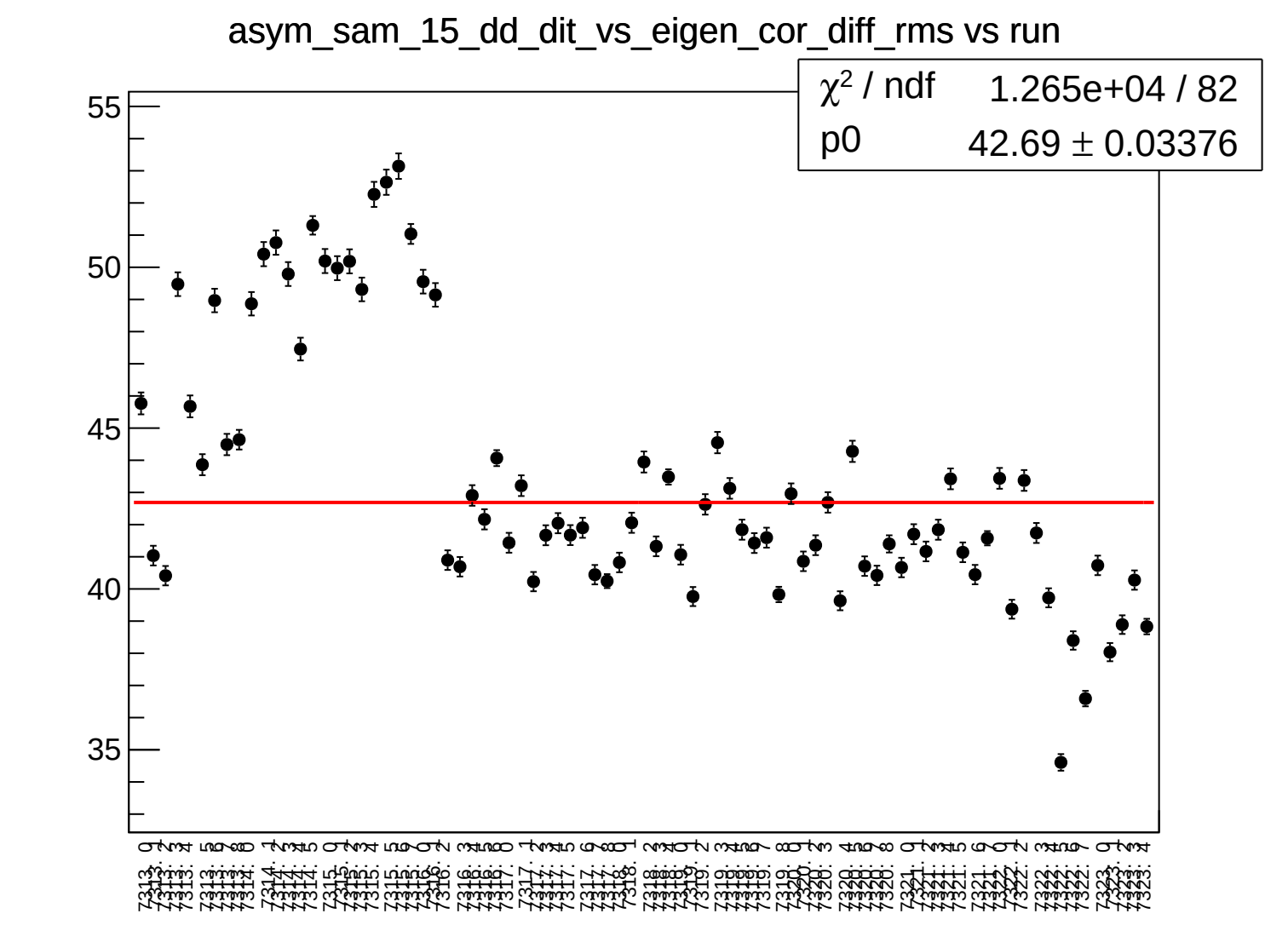

pull1D
Entries 83
Mean 0.006088
Std Dev 0.956

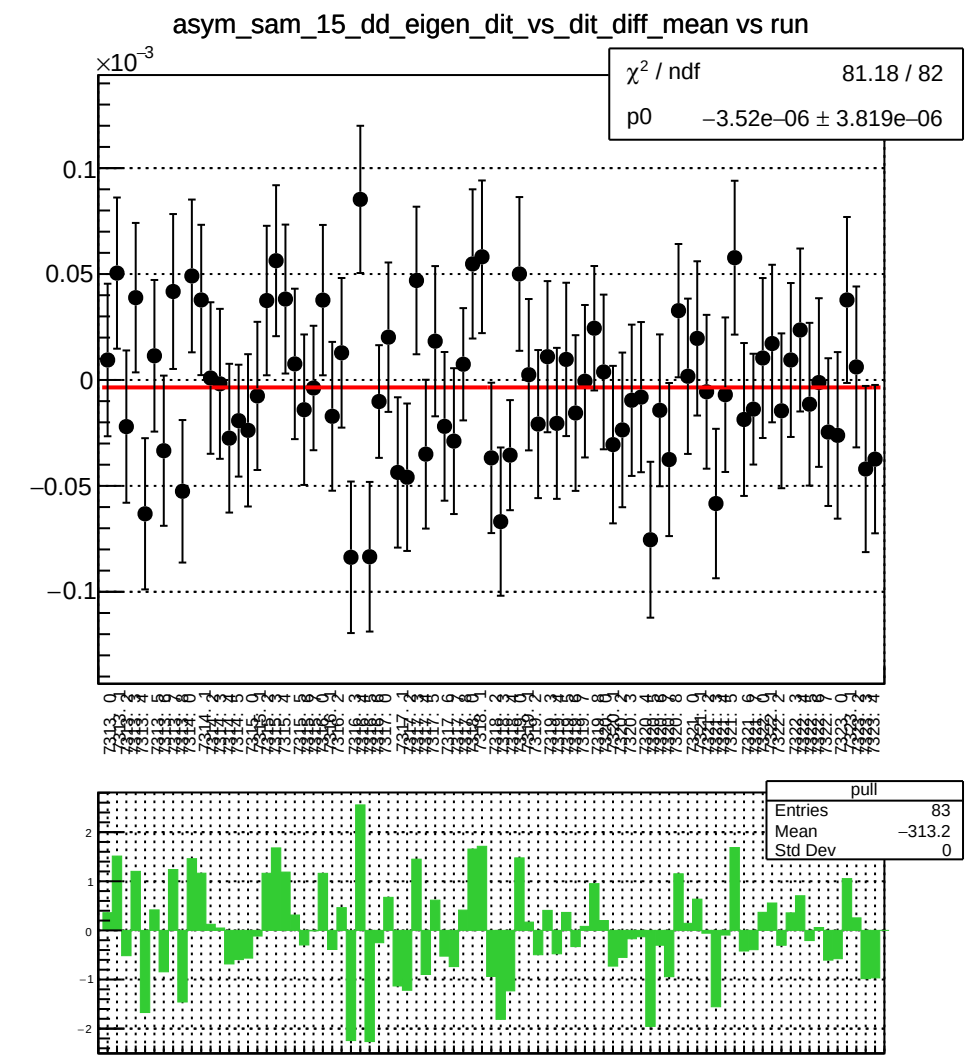

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 82
p0 1.034e−11 ± 1.635e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

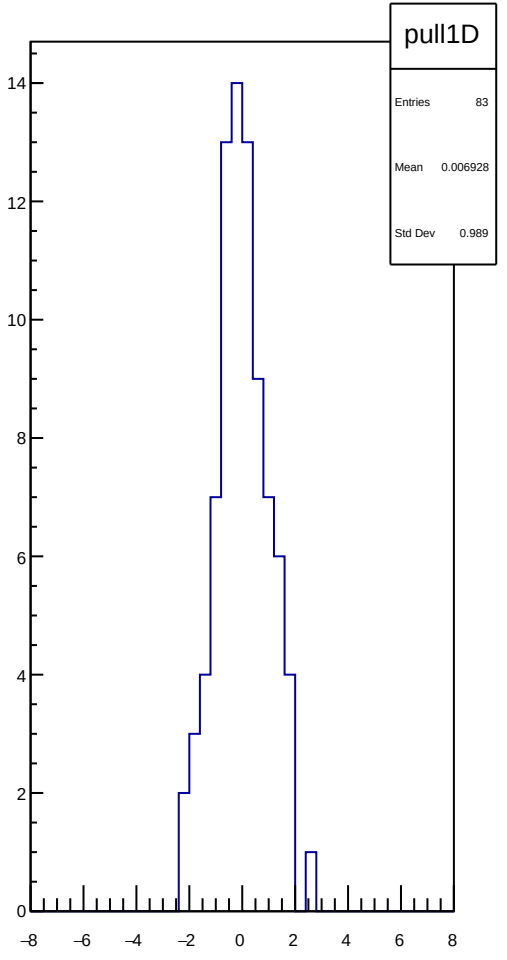

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.4 / 82
p0 0.001358 ± 0.04775
pull
Entries 83
Mean 29.77
Std Dev 41.18
pull1D
Entries 83
Mean −0.01811
Std Dev 0.9901

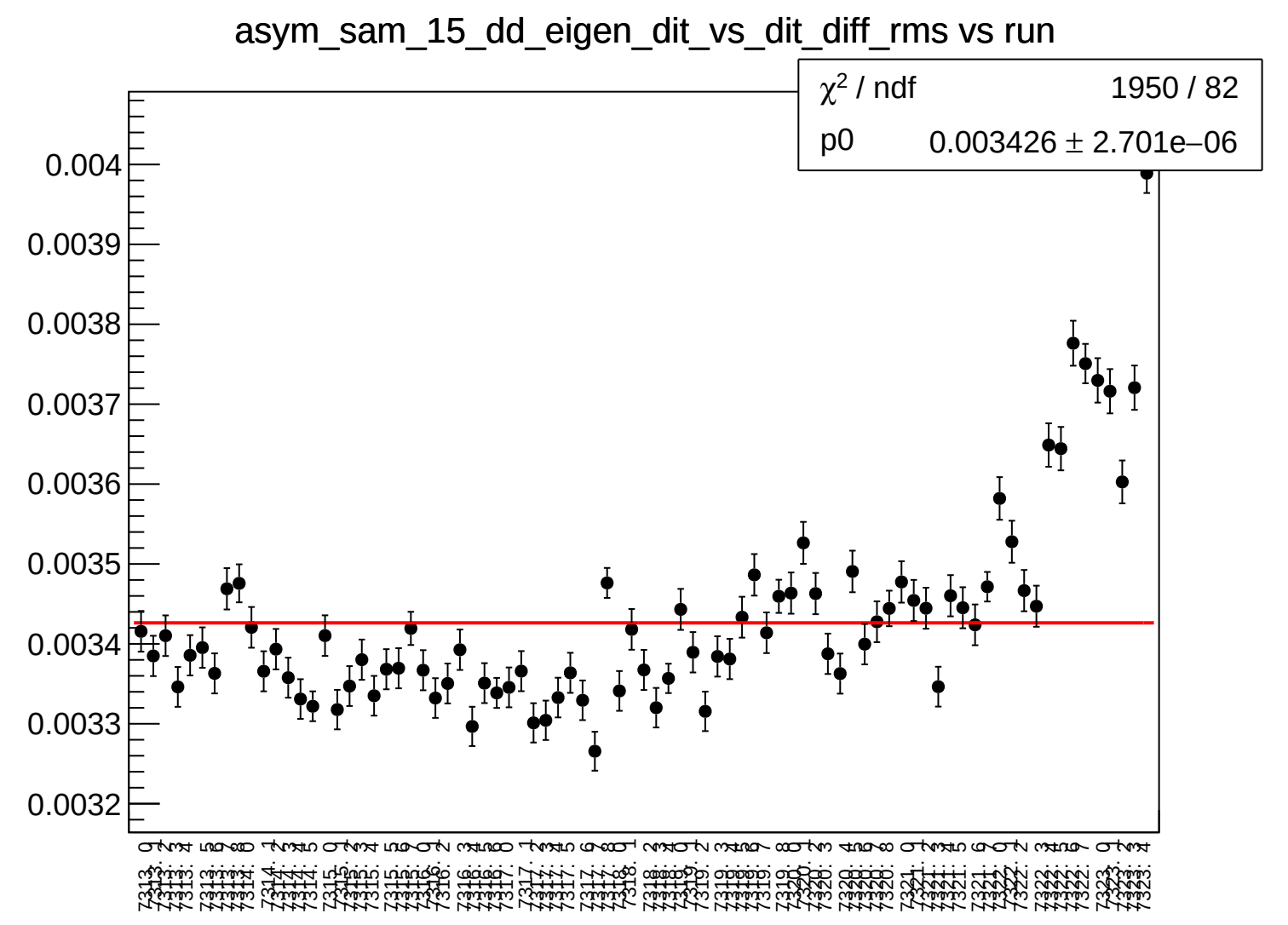

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.265e+04 / 82
p0 42.69 ± 0.03376
55
50
45
40
35

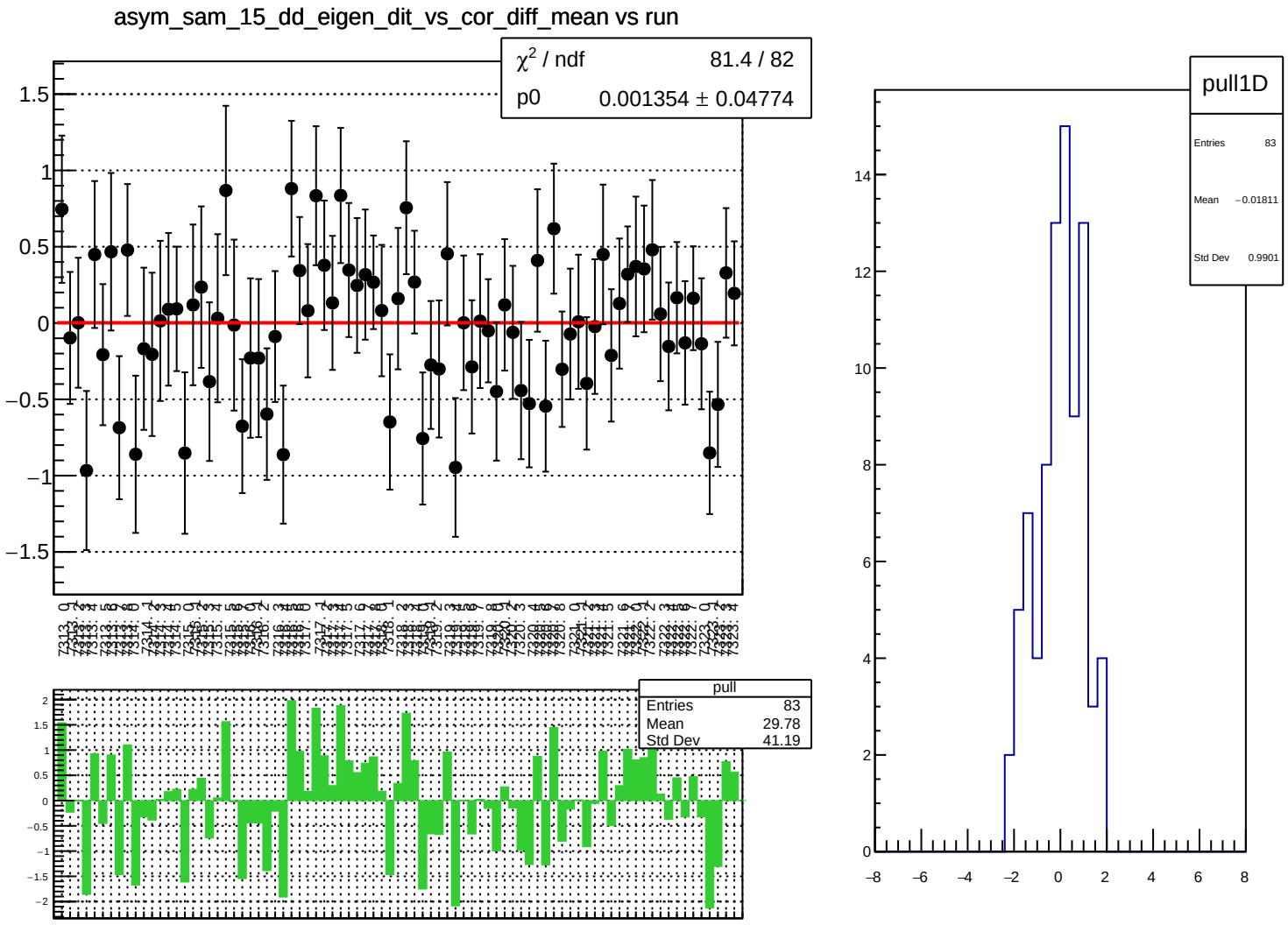

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.4 / 82
p0 0.001358 ± 0.04775
pull
Entries 83
Mean 29.77
Std Dev 41.18
pull1D
Entries 83
Mean −0.01811
Std Dev 0.9901

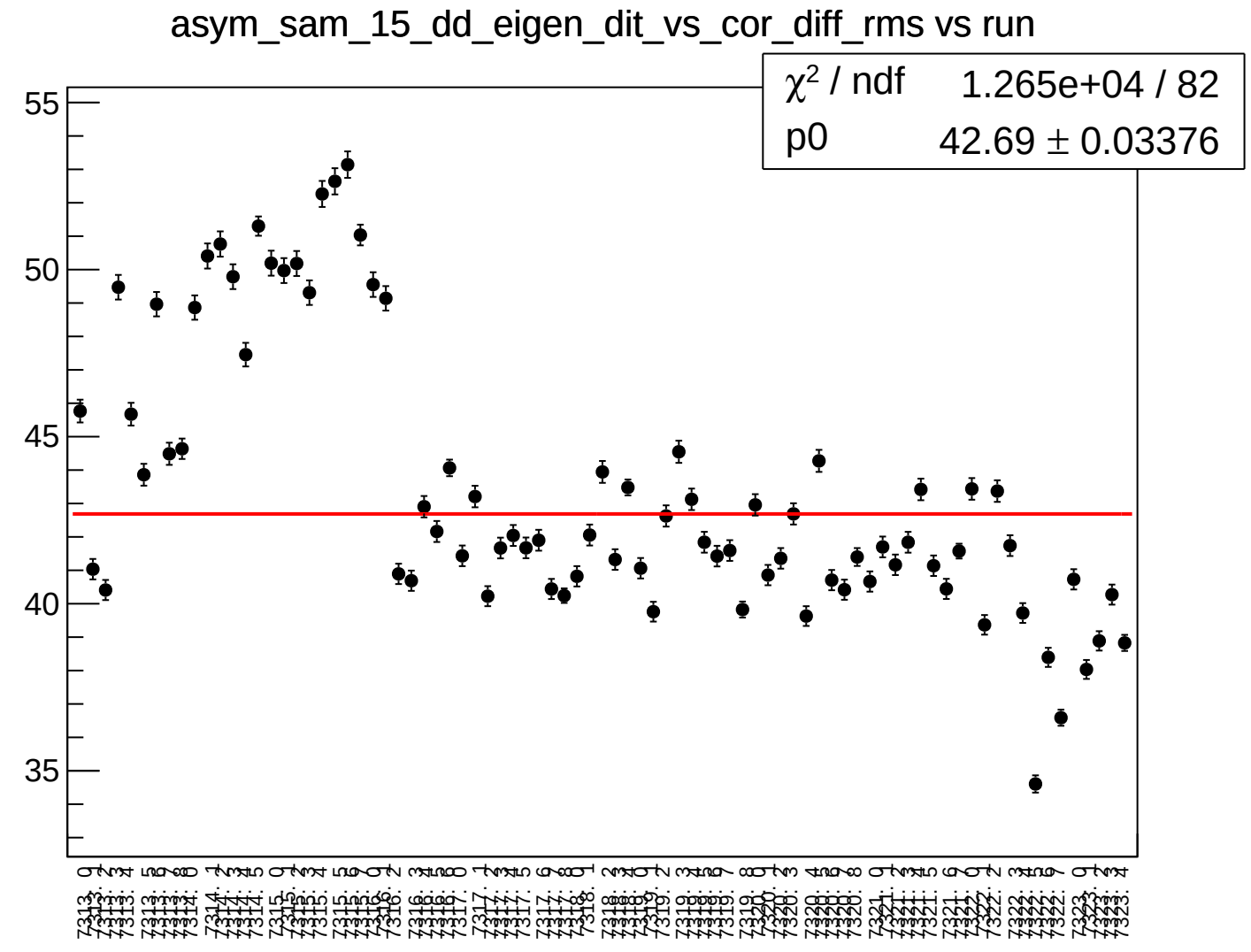

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.265e+04 / 82
p0 42.69 ± 0.03376
55
50
45
40
35

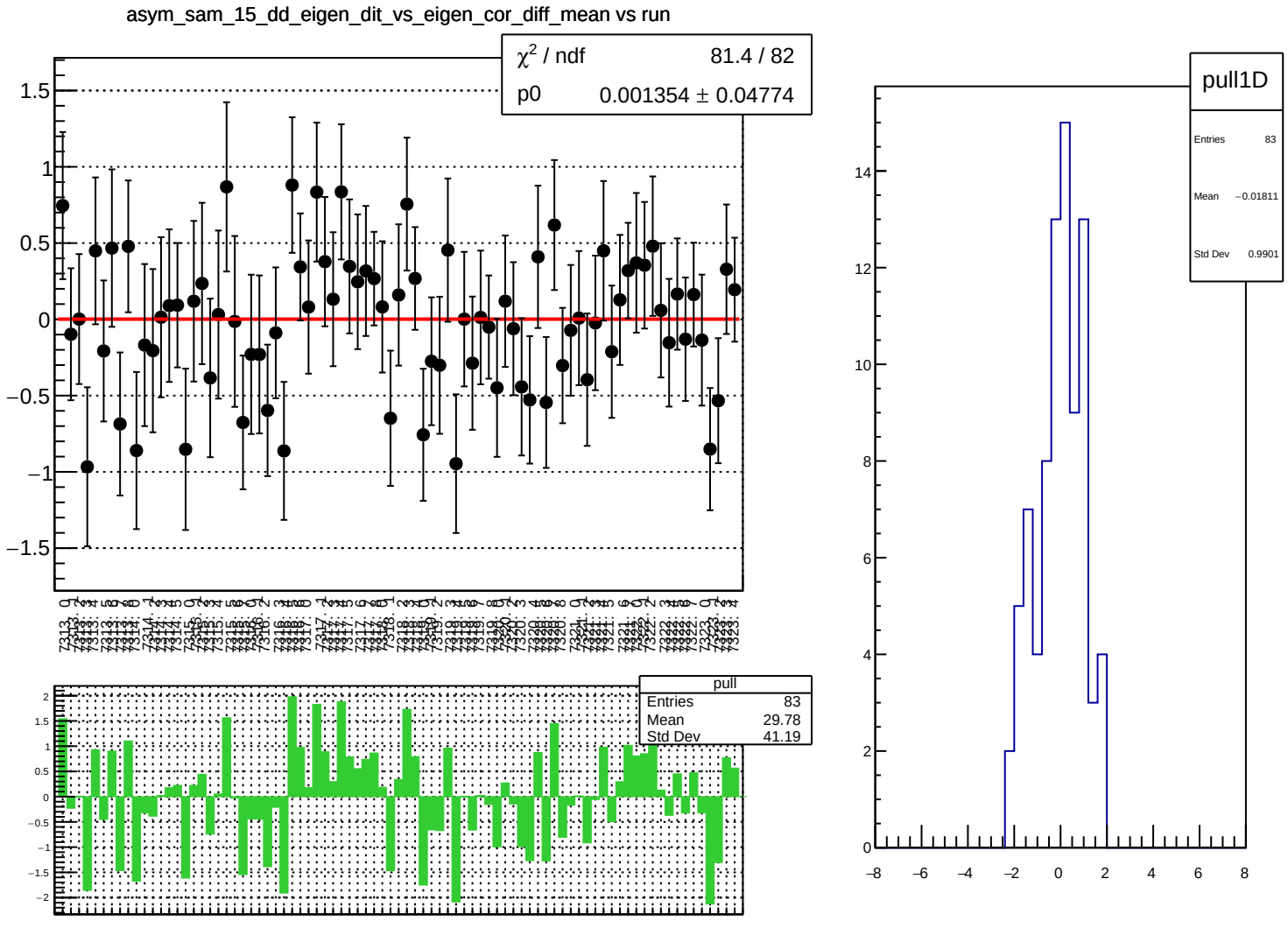

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.18 / 82
p0 −3.52e−06 ± 3.819e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean −313.2
Std Dev 0
2
1
0
−1
−2

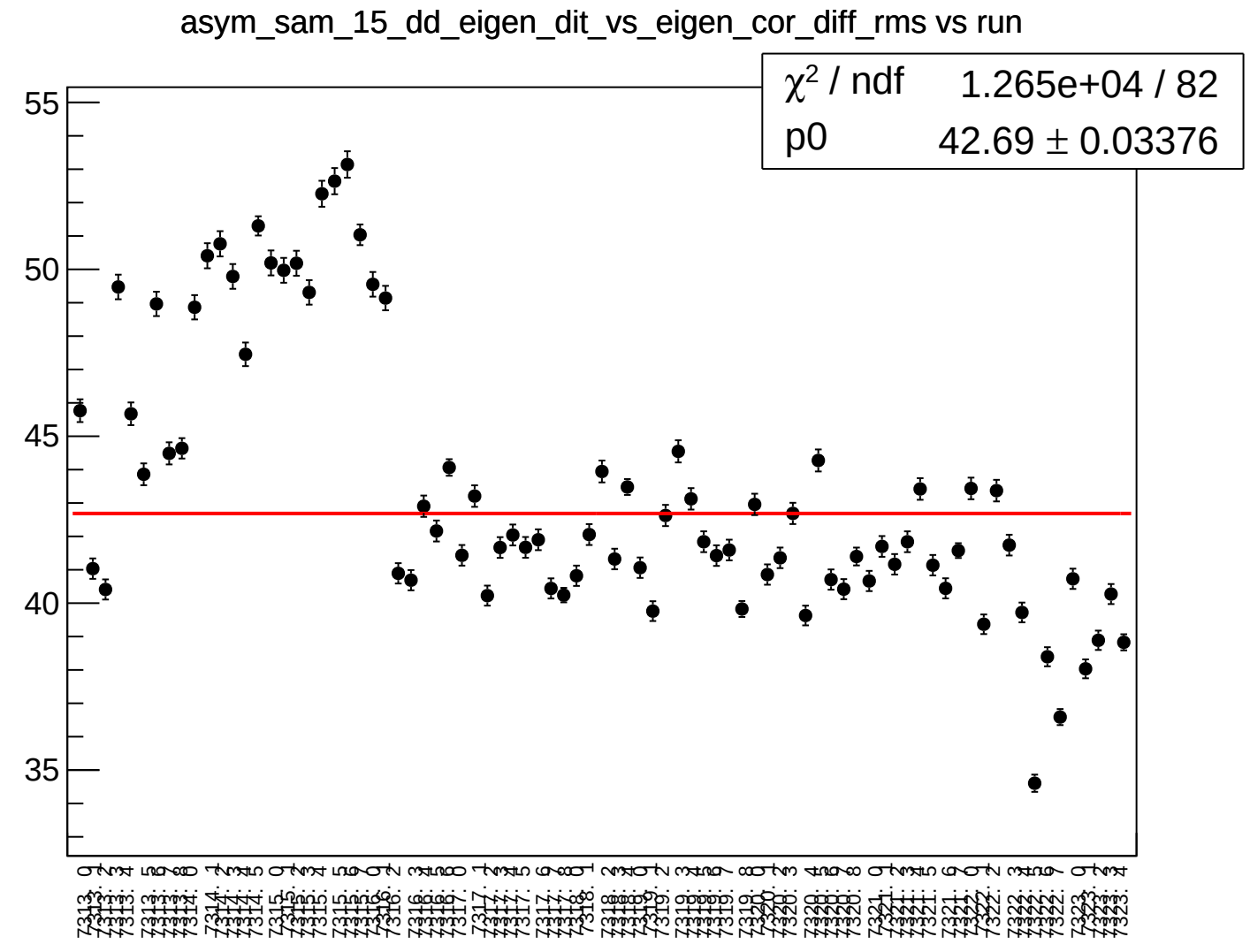

pull1D
Entries 83
Mean 0.006928
Std Dev 0.989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

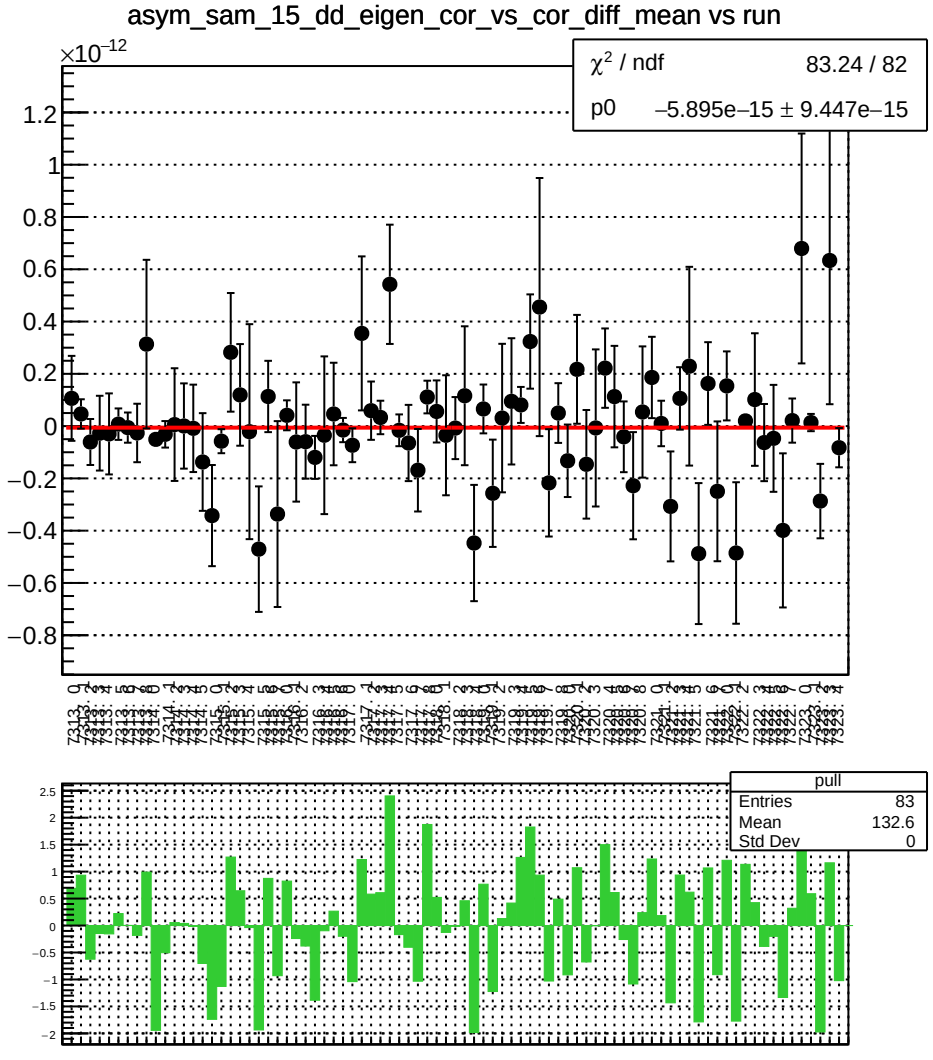

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1950 / 82
p0 0.003426 ± 2.701e−06
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032

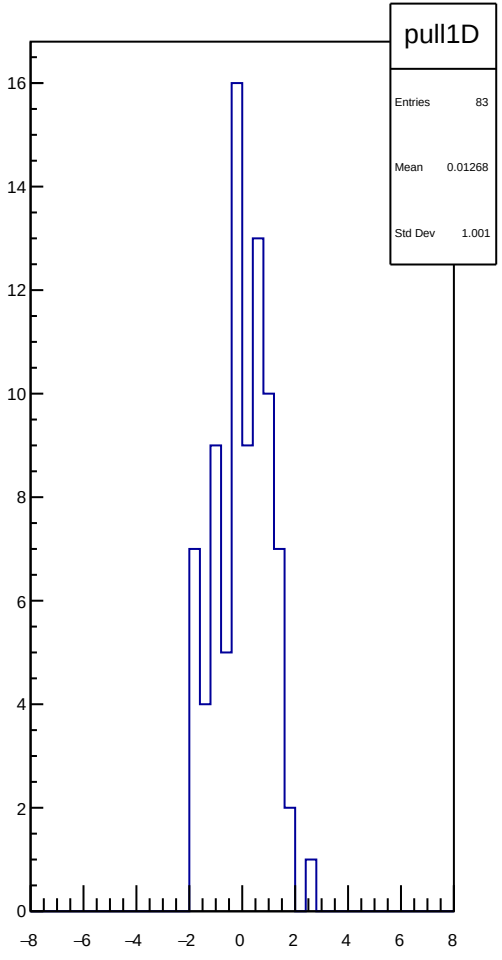

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.4 / 82
p0 0.001354 ± 0.04774
pull
Entries 83
Mean 29.78
Std Dev 41.19
pull1D
Entries 83
Mean −0.01811
Std Dev 0.9901

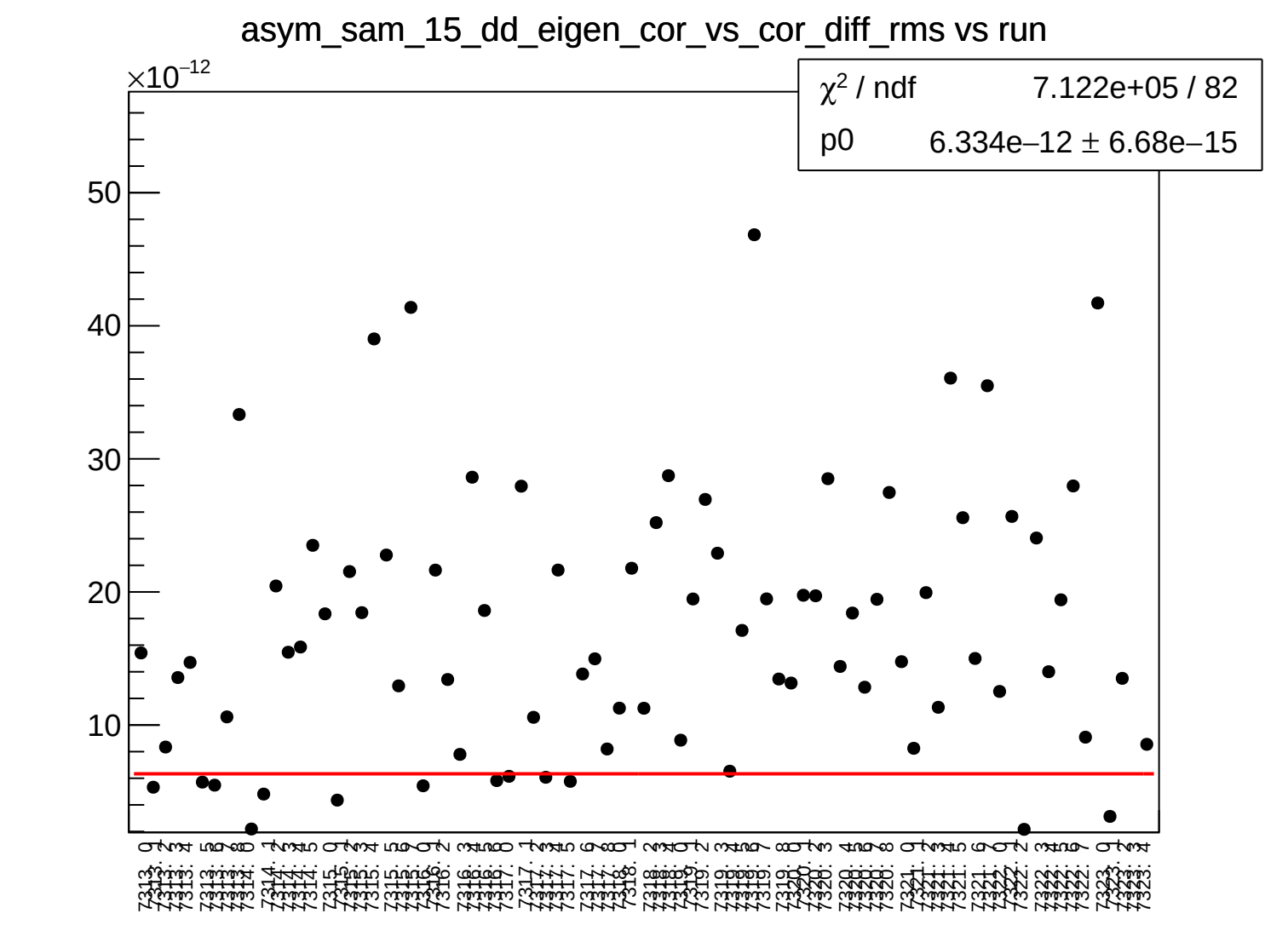

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.265e+04 / 82
p0 42.69 ± 0.03376
55
50
45
40
35

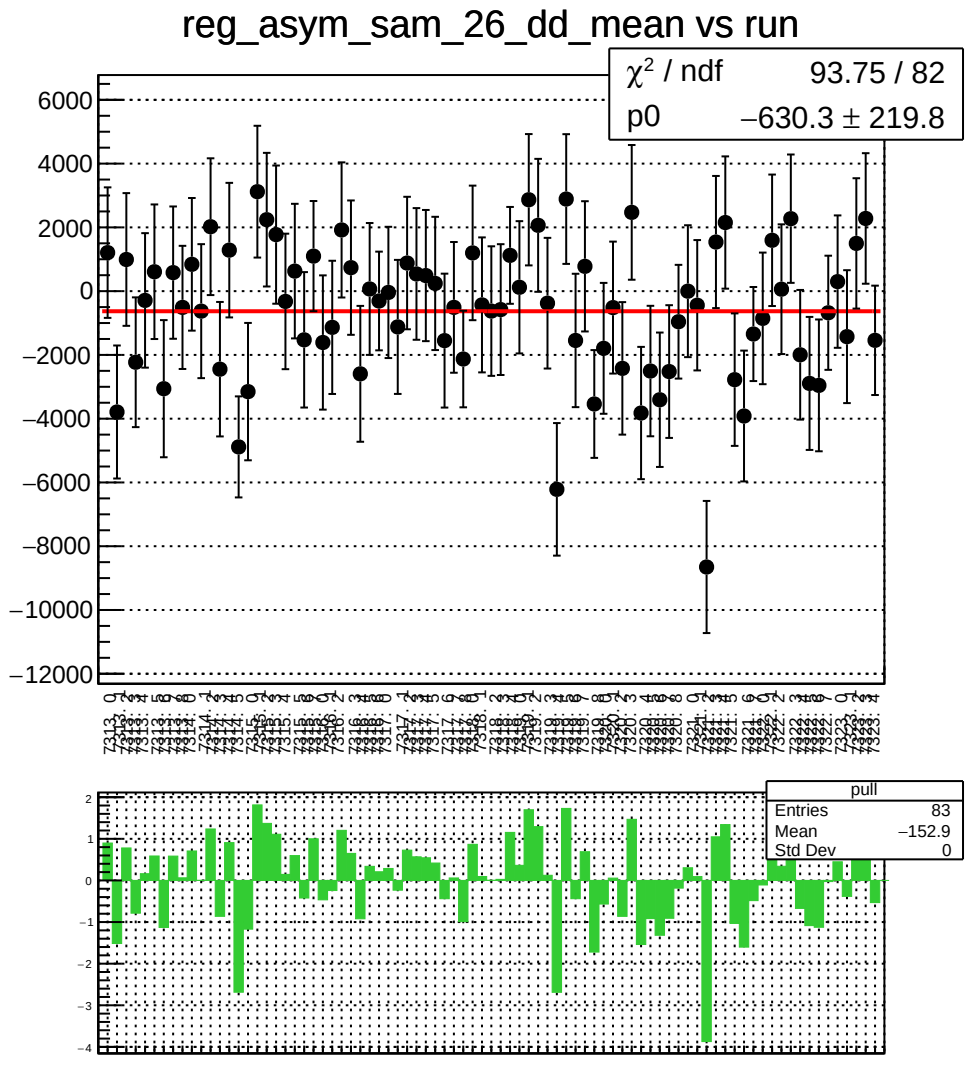

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.4 / 82
p0 0.001354 ± 0.04774
pull
Entries 83
Mean 29.78
Std Dev 41.19
pull1D
Entries 83
Mean −0.01811
Std Dev 0.9901

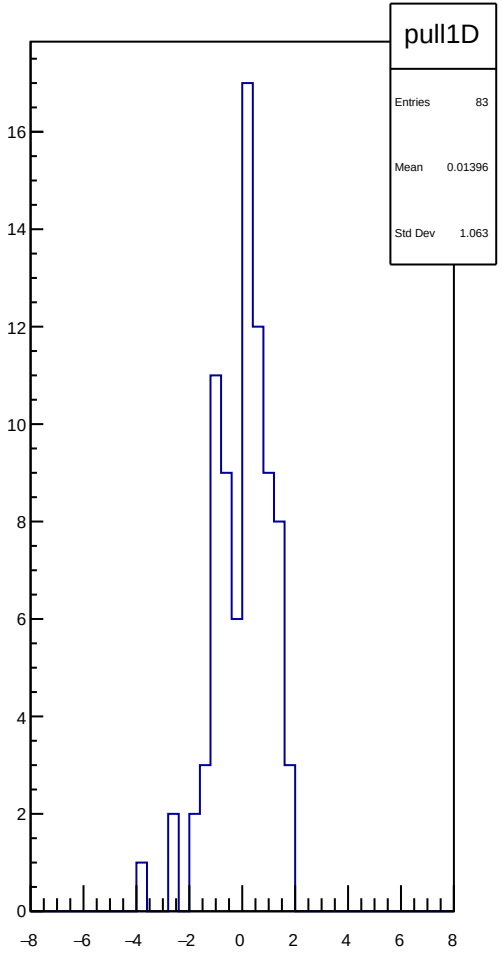

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.265e+04 / 82
p0 42.69 ± 0.03376
55
50
45
40
35

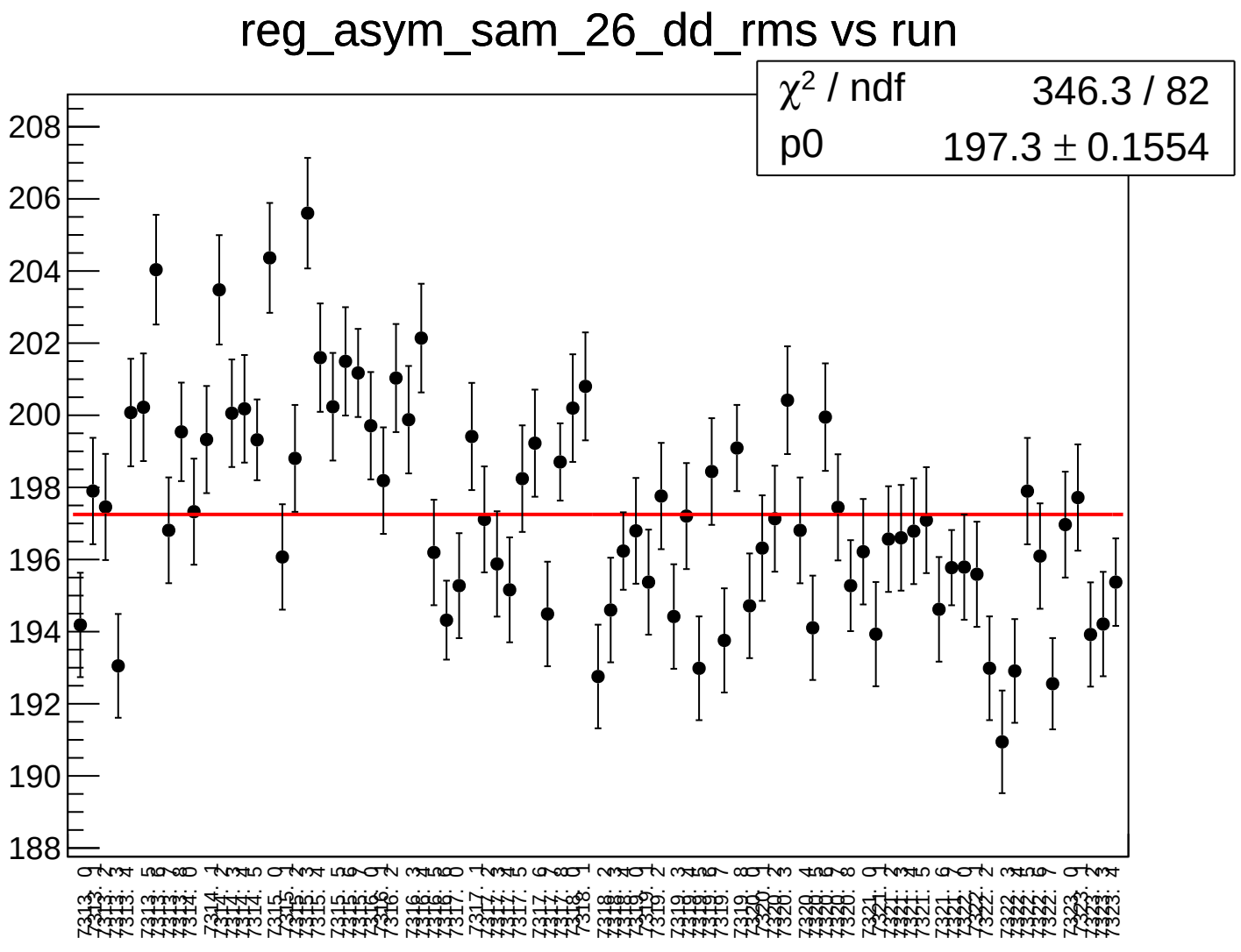

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.24 / 82
p0 −5.895e−15 ± 9.447e−15
pull
Entries 83
Mean 132.6
Std Dev 0

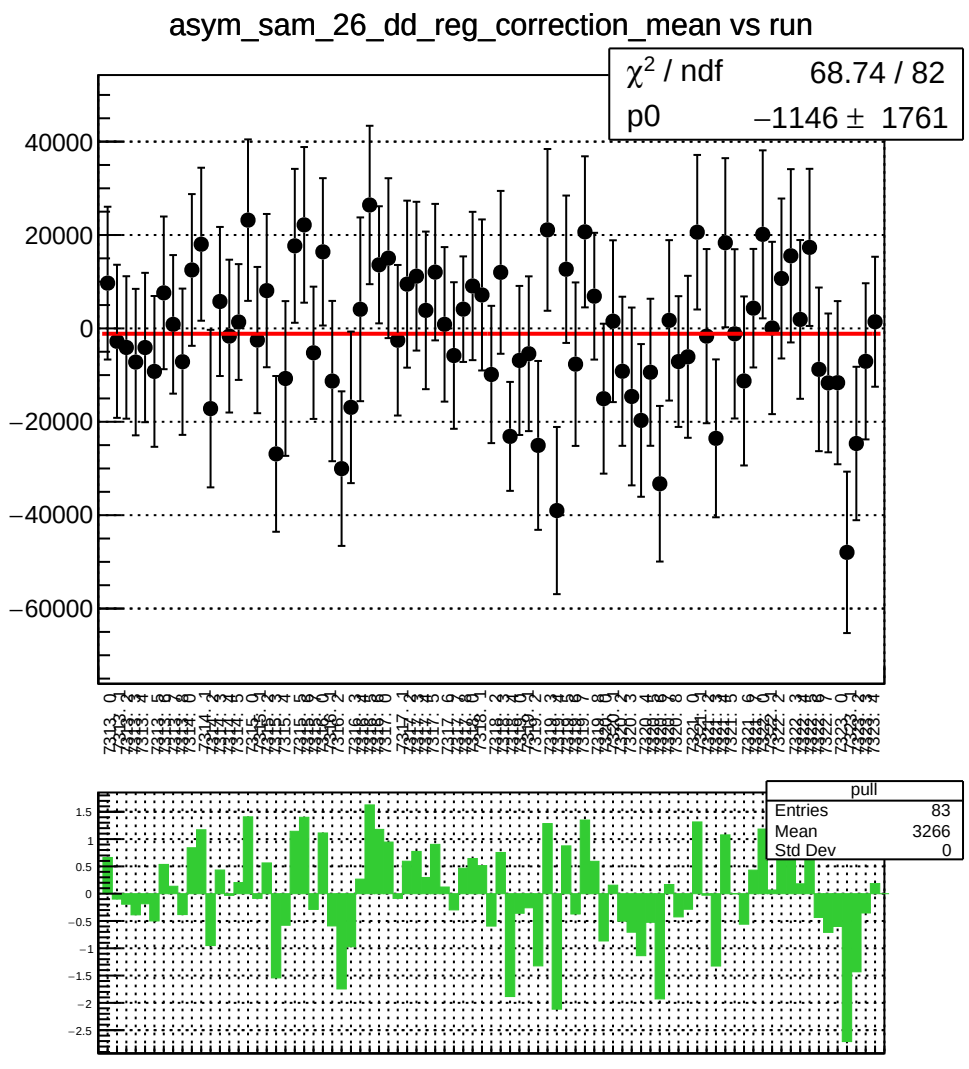

pull1D
Entries 83
Mean 0.01268
Std Dev 1.001

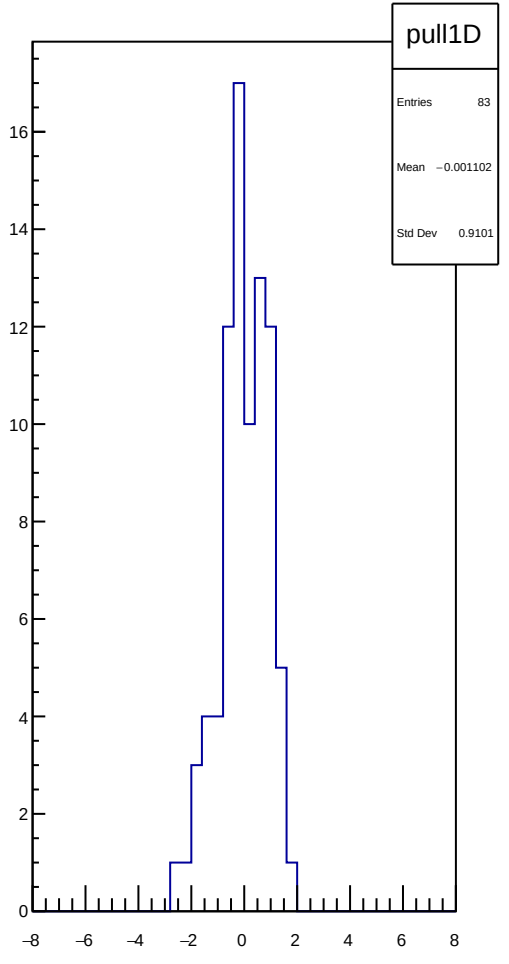

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.122e+05 / 82
p0 6.334e−12 ± 6.68e−15
50
40
30
20
10

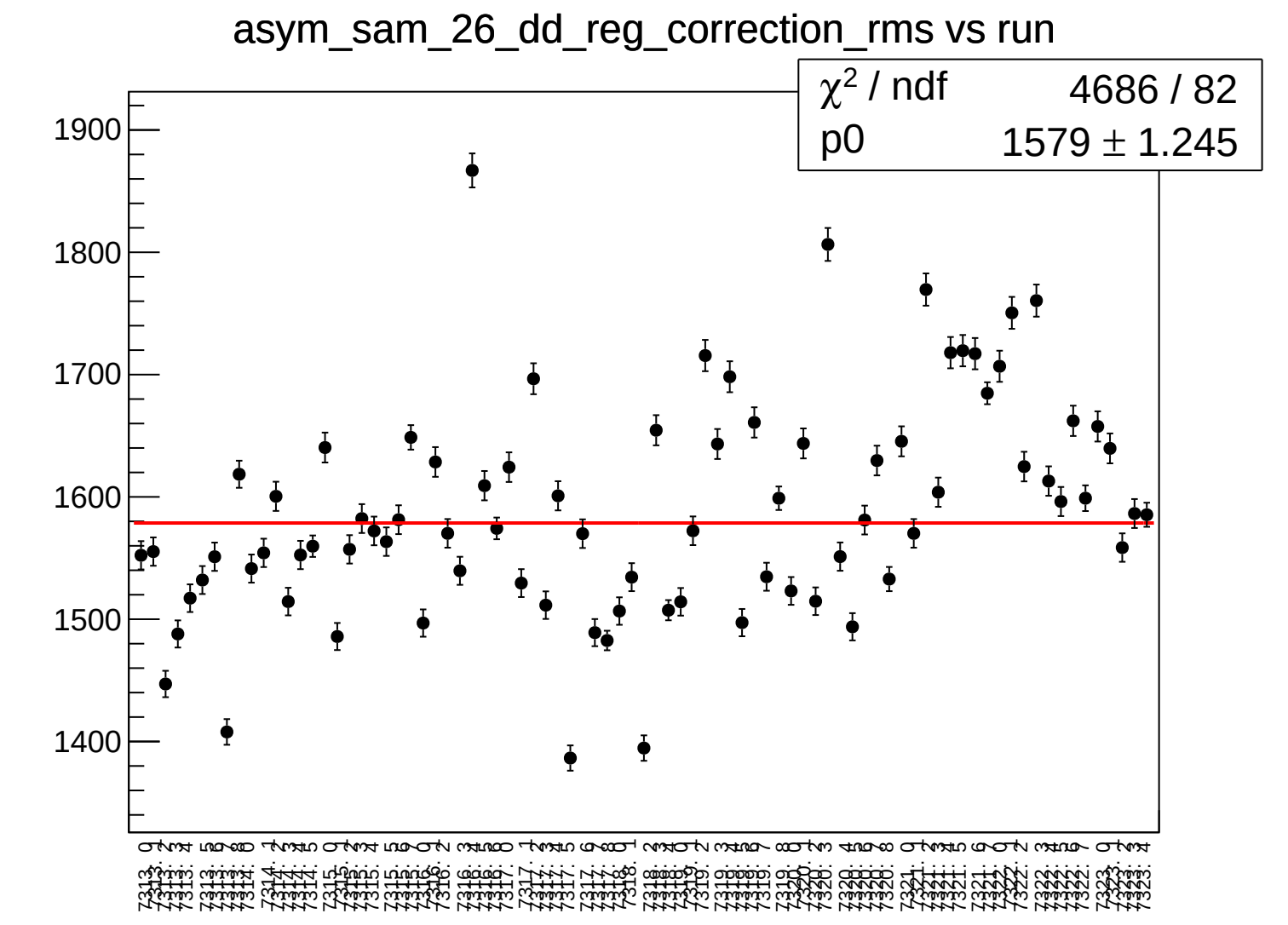

reg_asym_sam_26_dd_mean vs run
χ² / ndf 93.75 / 82
p0 −630.3 ± 219.8
pull
Entries 83
Mean −152.9
Std Dev 0

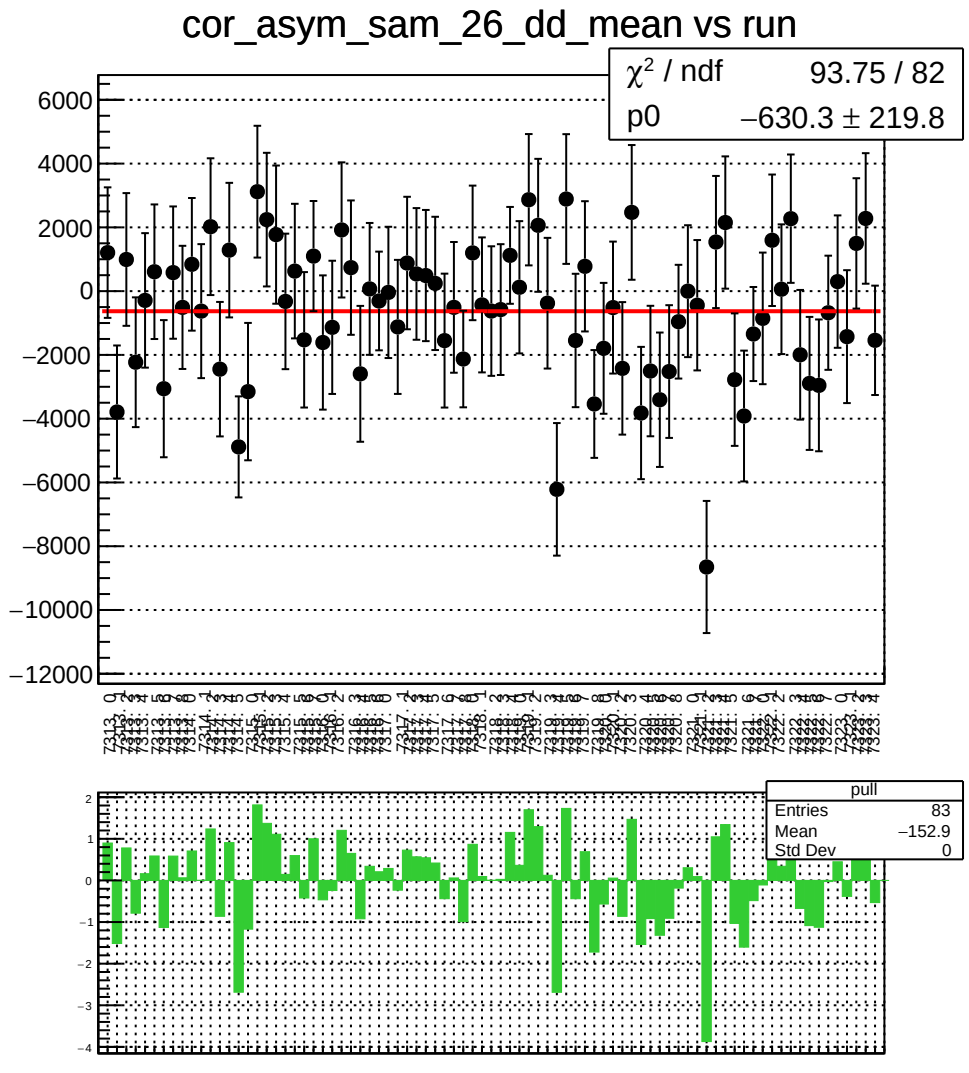

pull1D
Entries 83
Mean 0.01396
Std Dev 1.063

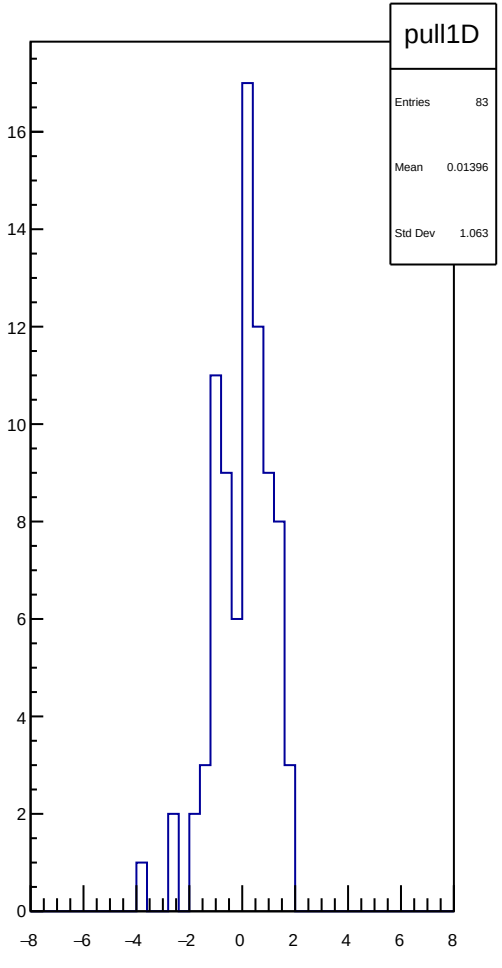

reg_asym_sam_26_dd_rms vs run
χ² / ndf 346.3 / 82
p0 197.3 ± 0.1554
208
206
204
202
200
198
196
194
192
190
188

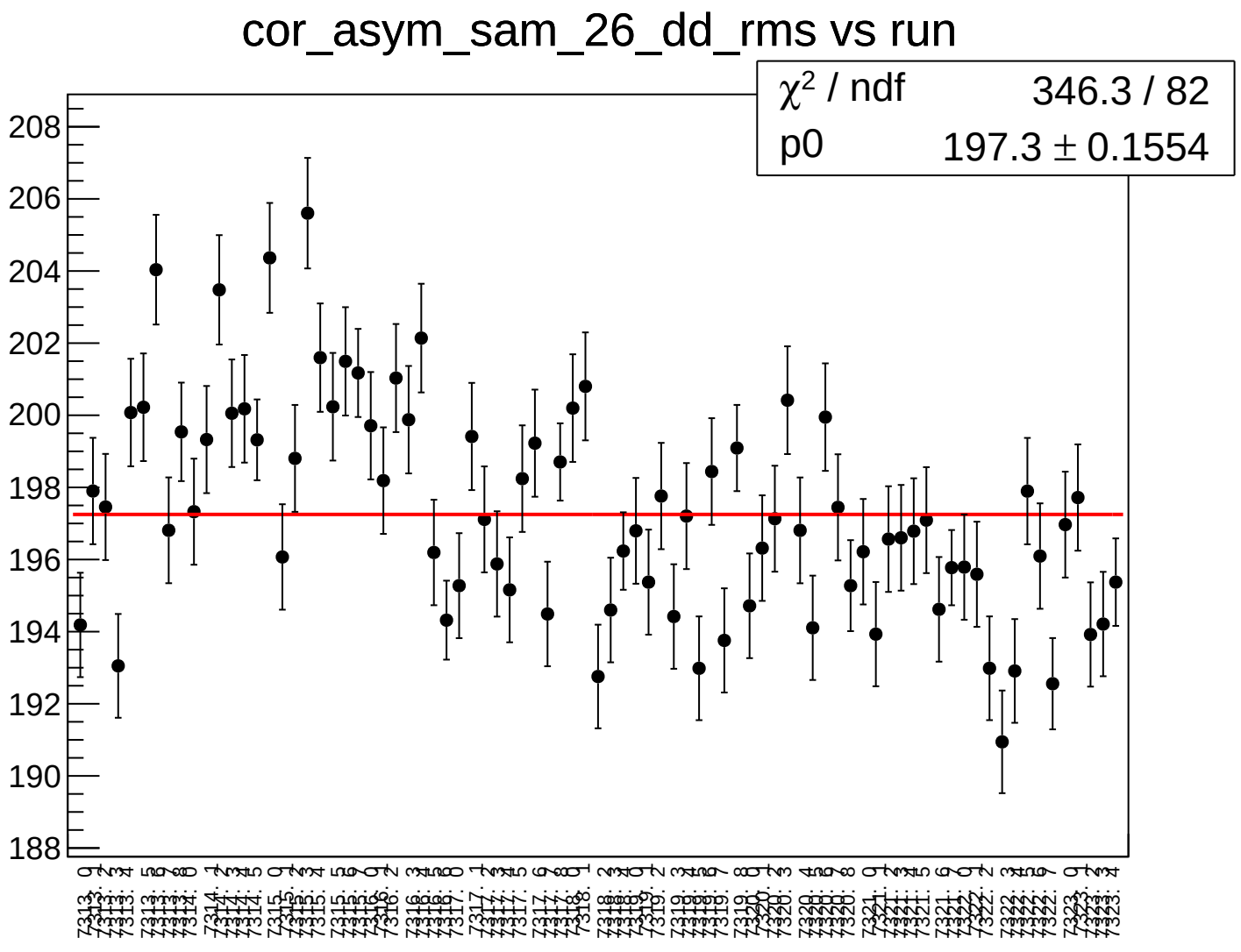

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 68.74 / 82
p0 −1146 ± 1761
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 3266
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

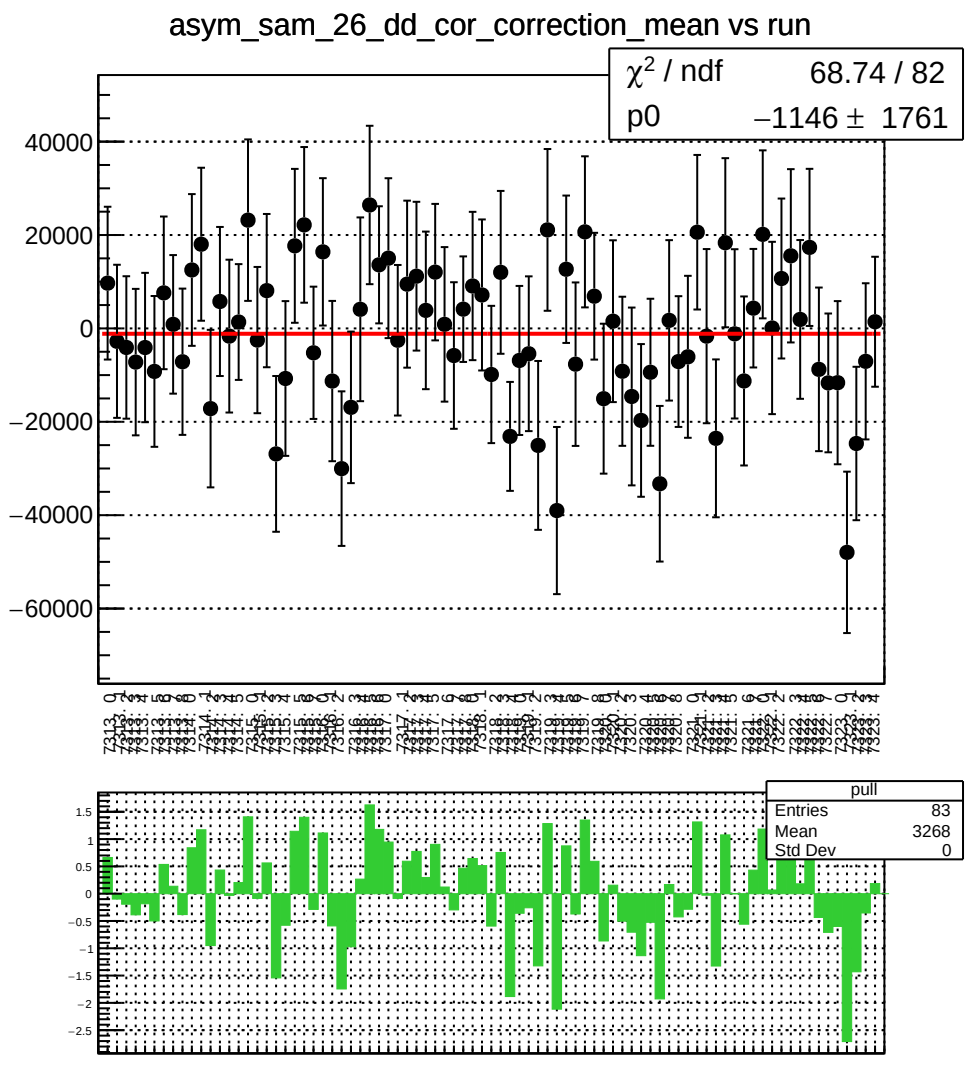

pull1D
Entries 83
Mean −0.001102
Std Dev 0.9101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

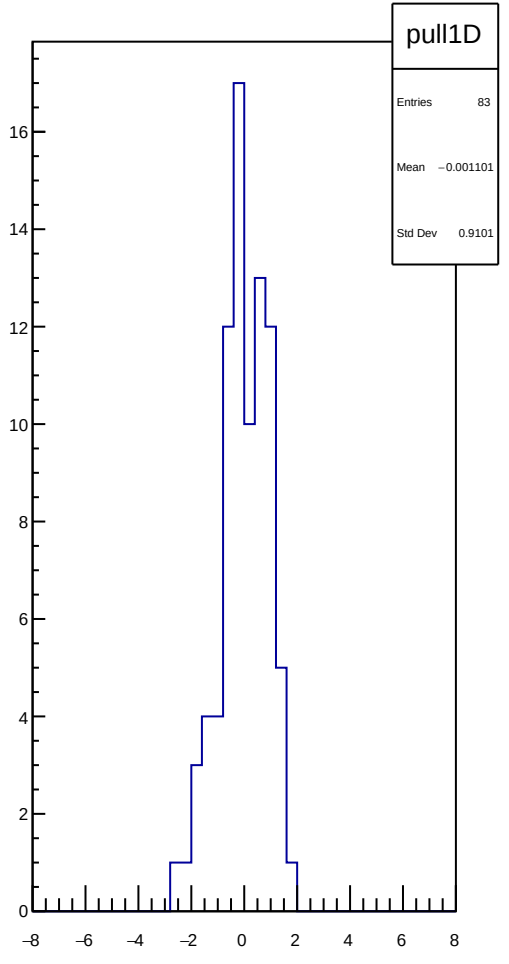

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 4686 / 82
p0 1579 ± 1.245
1900
1800
1700
1600
1500
1400

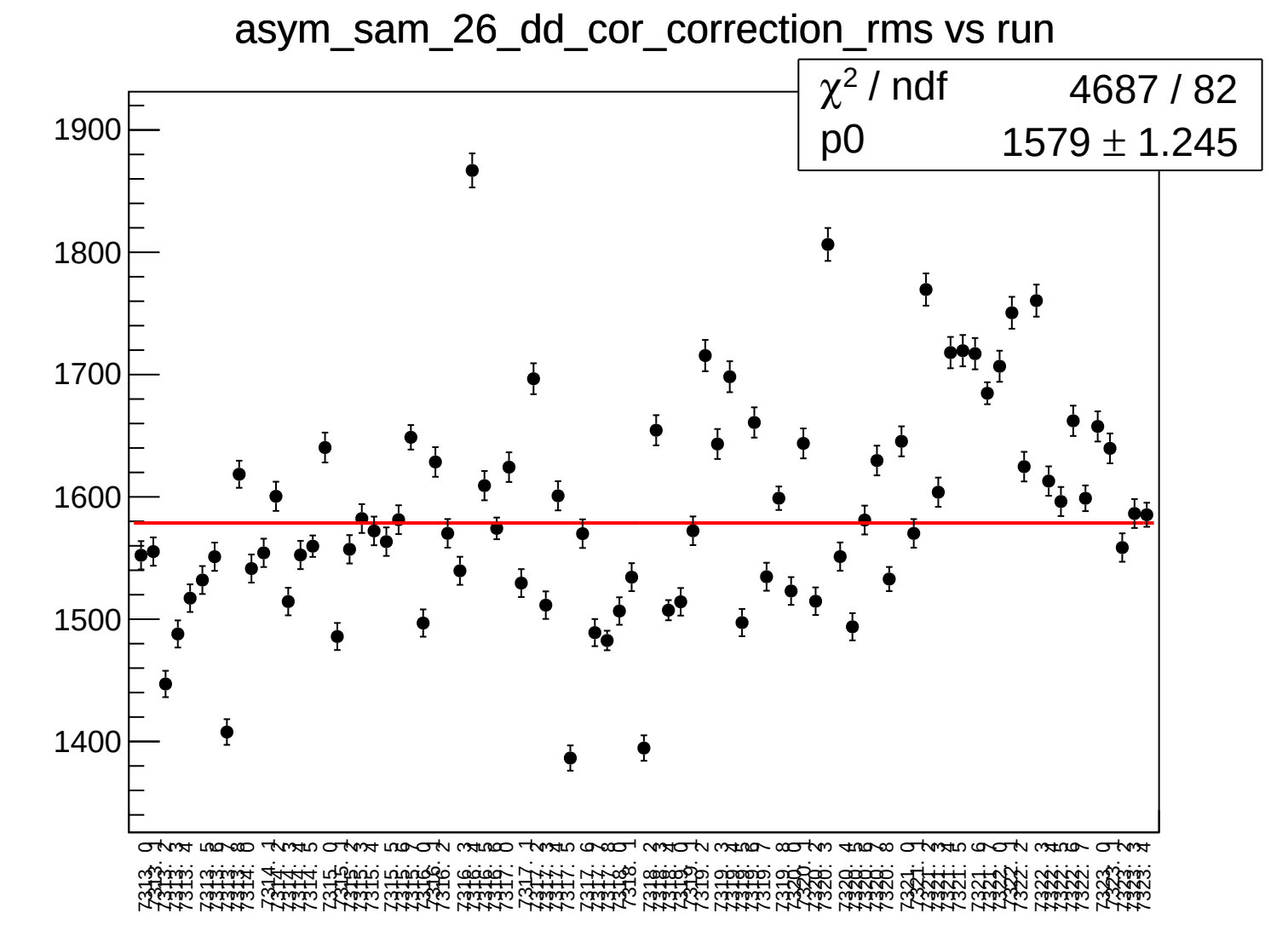

cor_asym_sam_26_dd_mean vs run
χ² / ndf 93.75 / 82
p0 −630.3 ± 219.8
pull
Entries 83
Mean −152.9
Std Dev 0

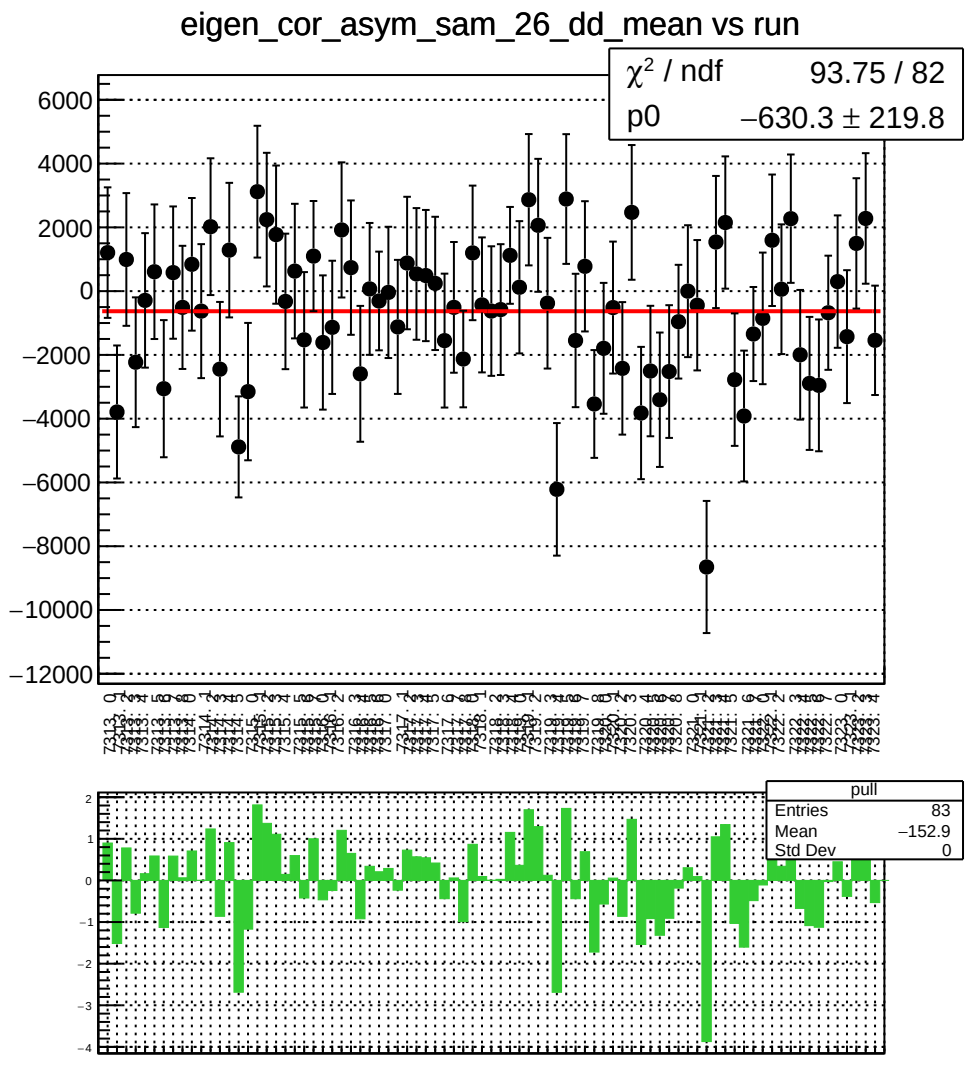

pull1D
Entries 83
Mean 0.01396
Std Dev 1.063

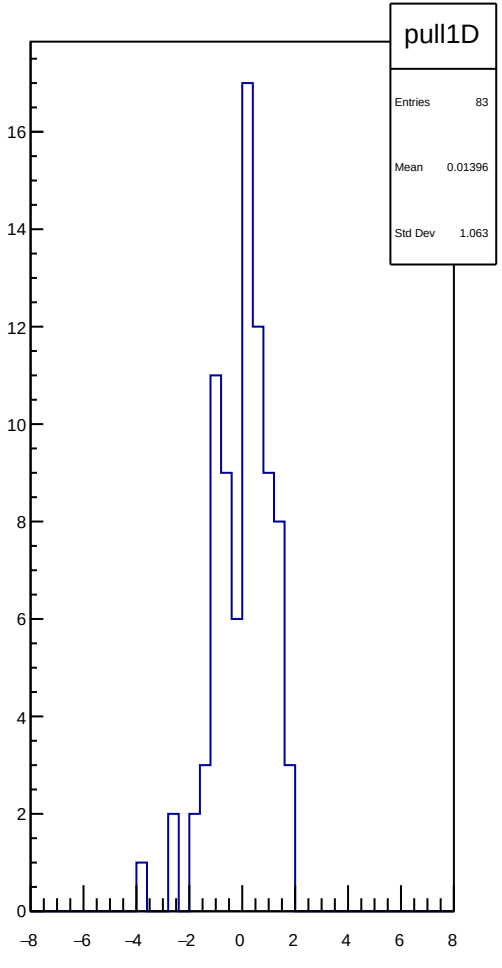

cor_asym_sam_26_dd_rms vs run
χ² / ndf 346.3 / 82
p0 197.3 ± 0.1554
208
206
204
202
200
198
196
194
192
190
188

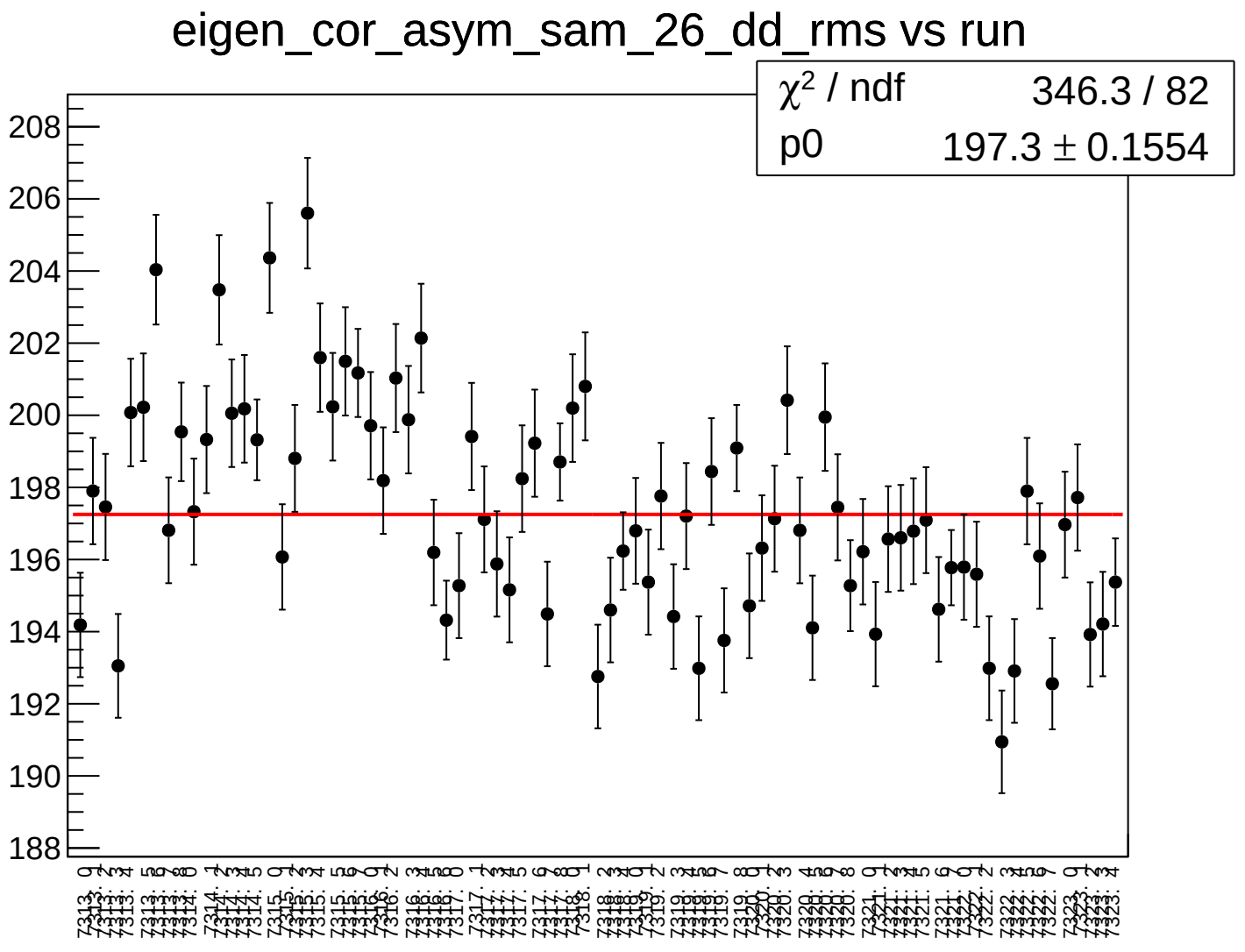

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 68.74 / 82
p0 −1146 ± 1761
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 3268
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

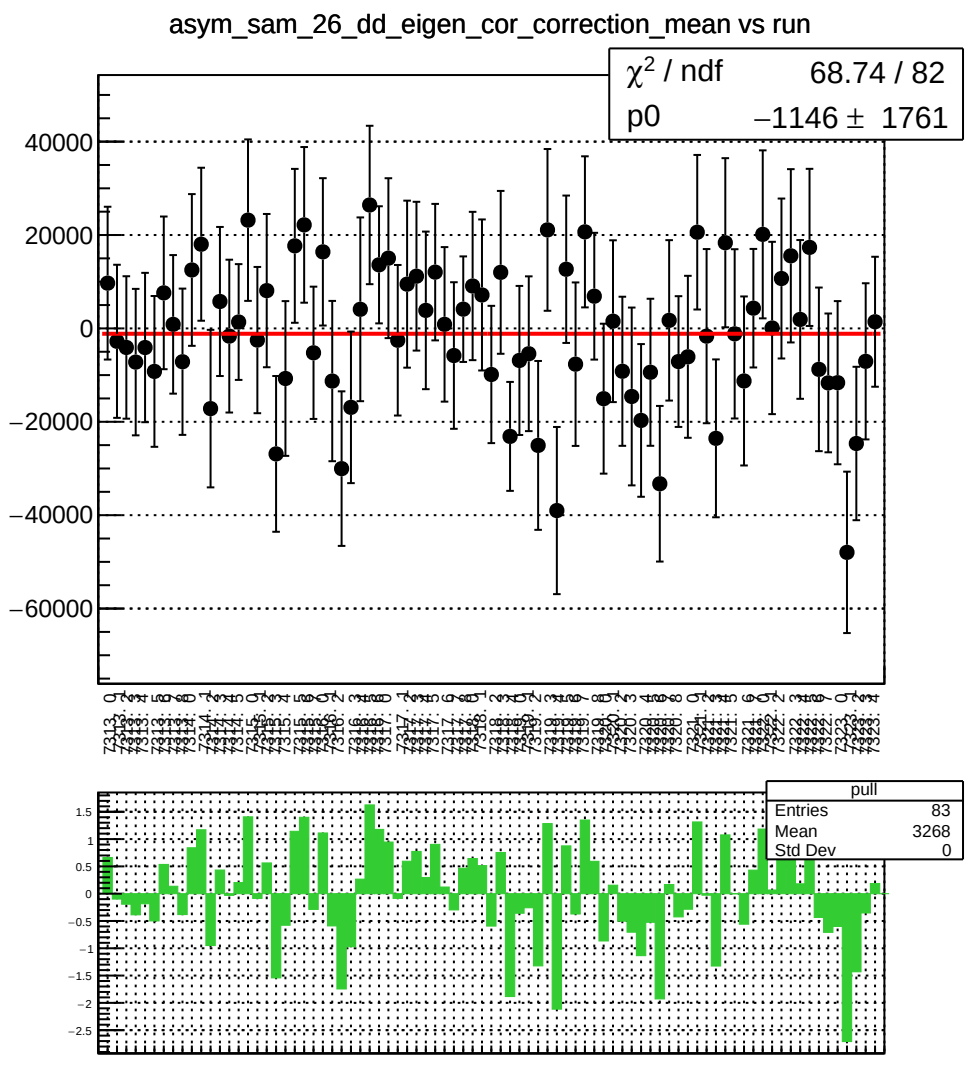

pull1D
Entries 83
Mean −0.001101
Std Dev 0.9101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

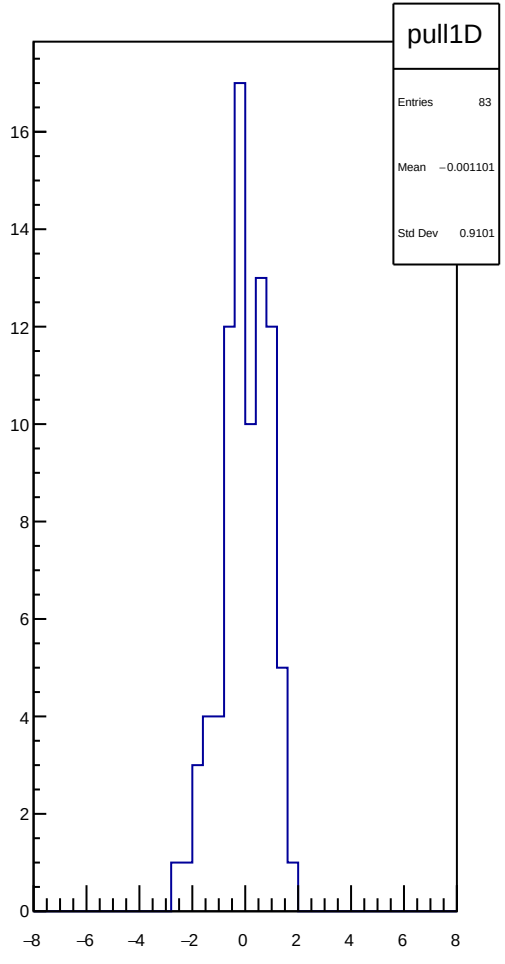

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 4687 / 82
p0 1579 ± 1.245
1900
1800
1700
1600
1500
1400

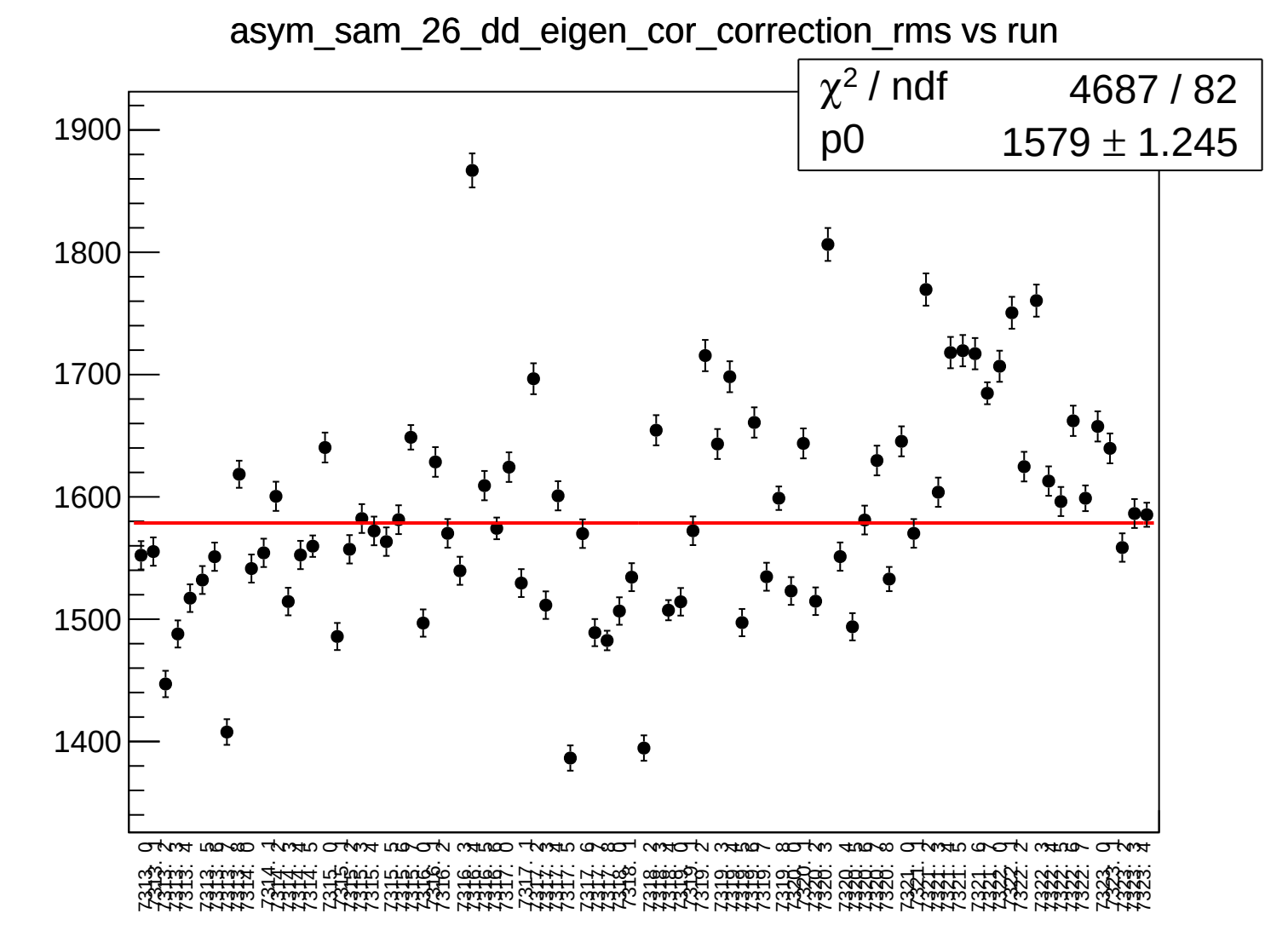

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 93.75 / 82
p0 −630.3 ± 219.8
pull
Entries 83
Mean −152.9
Std Dev 0

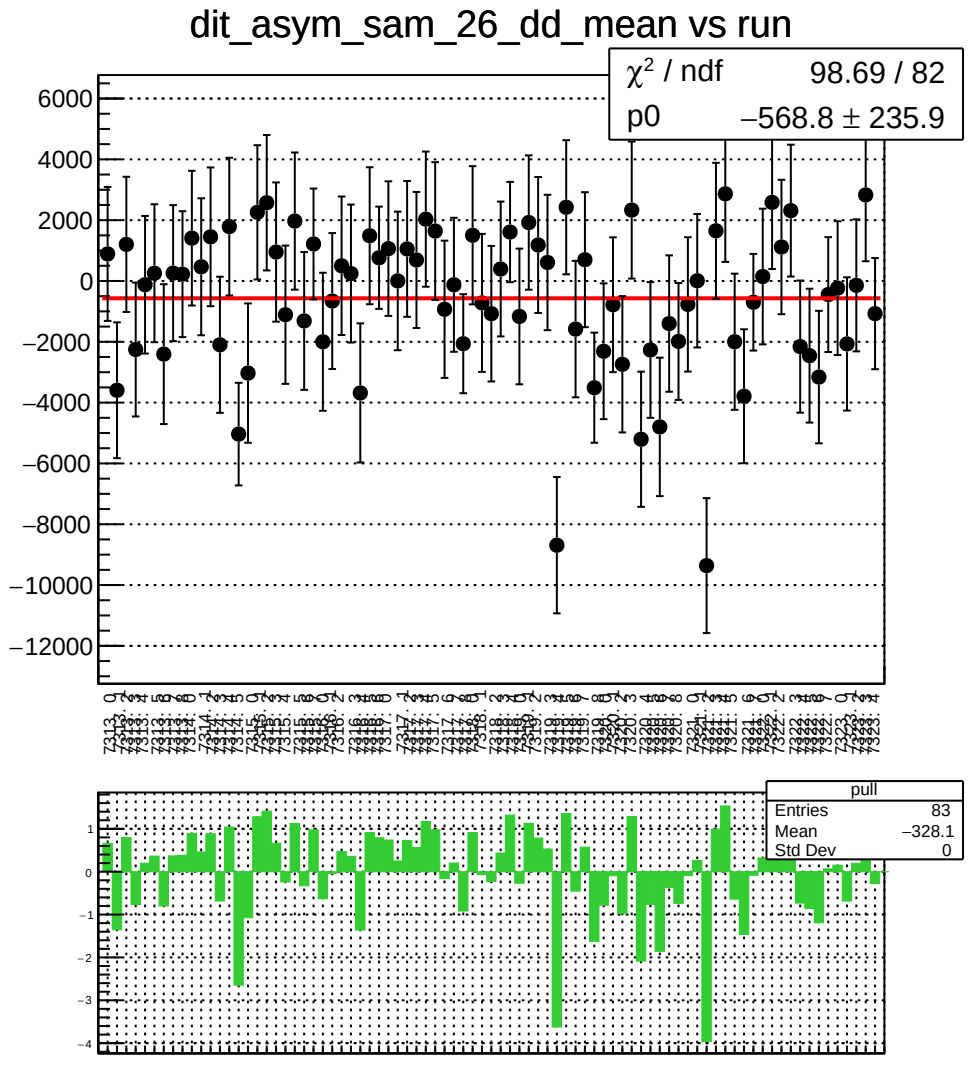

pull1D
Entries 83
Mean 0.01396
Std Dev 1.063

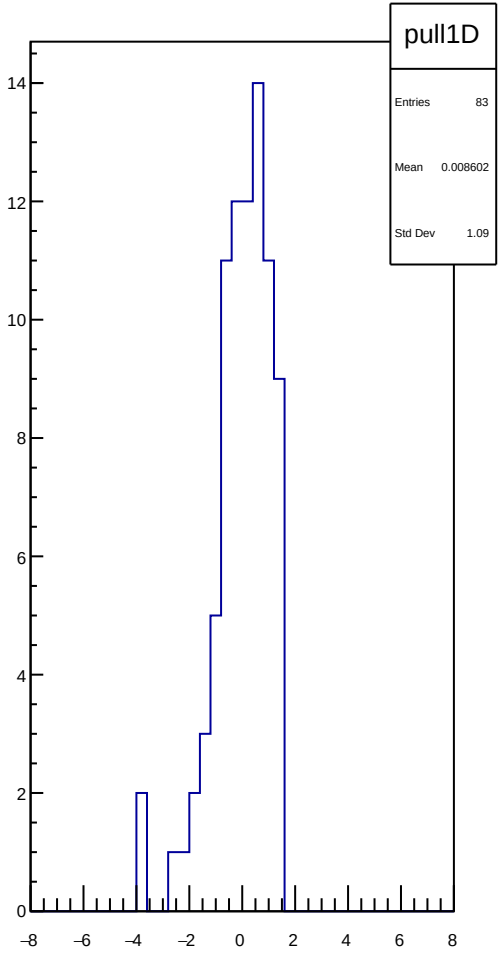

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 346.3 / 82
p0 197.3 ± 0.1554
208
206
204
202
200
198
196
194
192
190
188

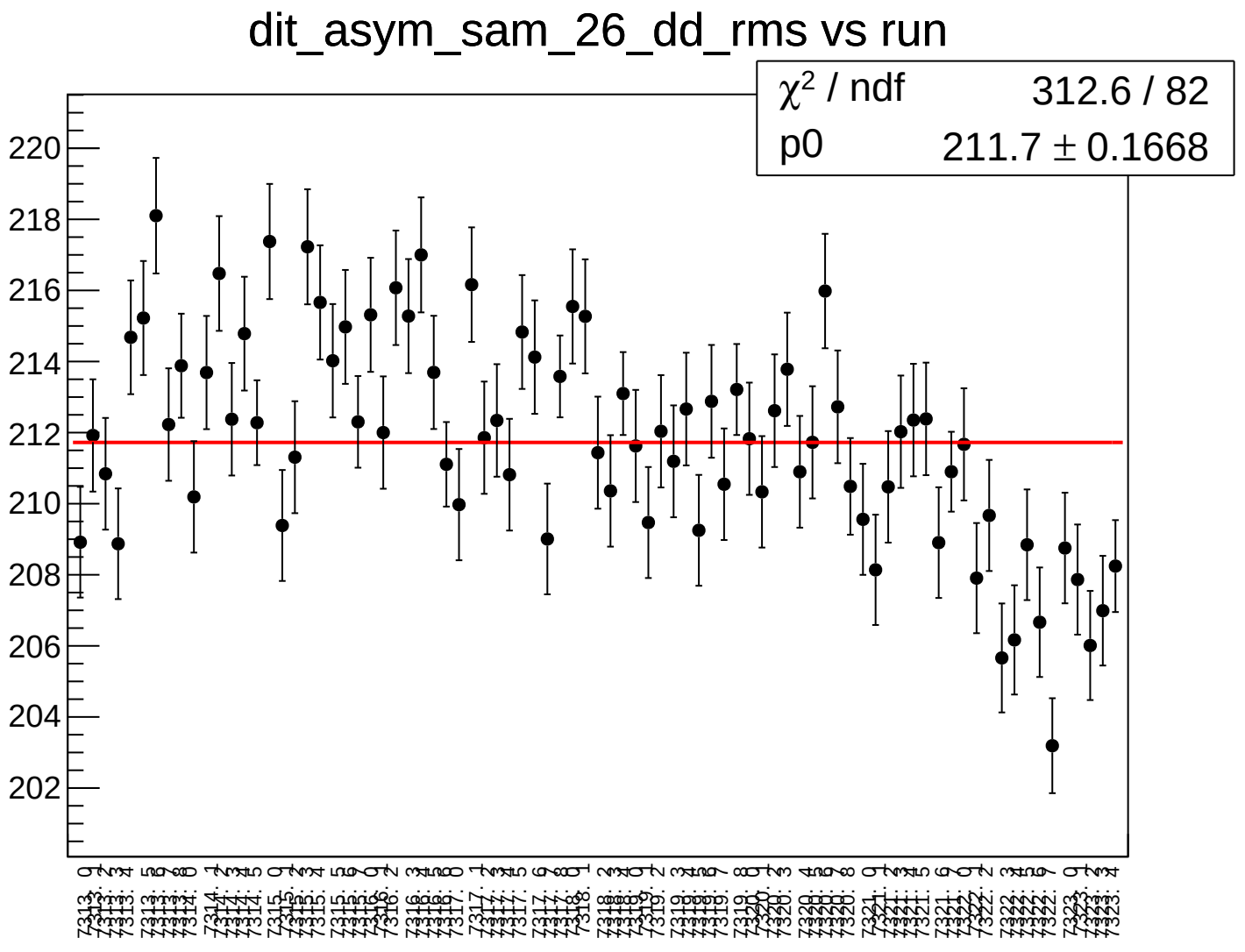

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.74 / 82
p0 −1146 ± 1761
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 3268
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

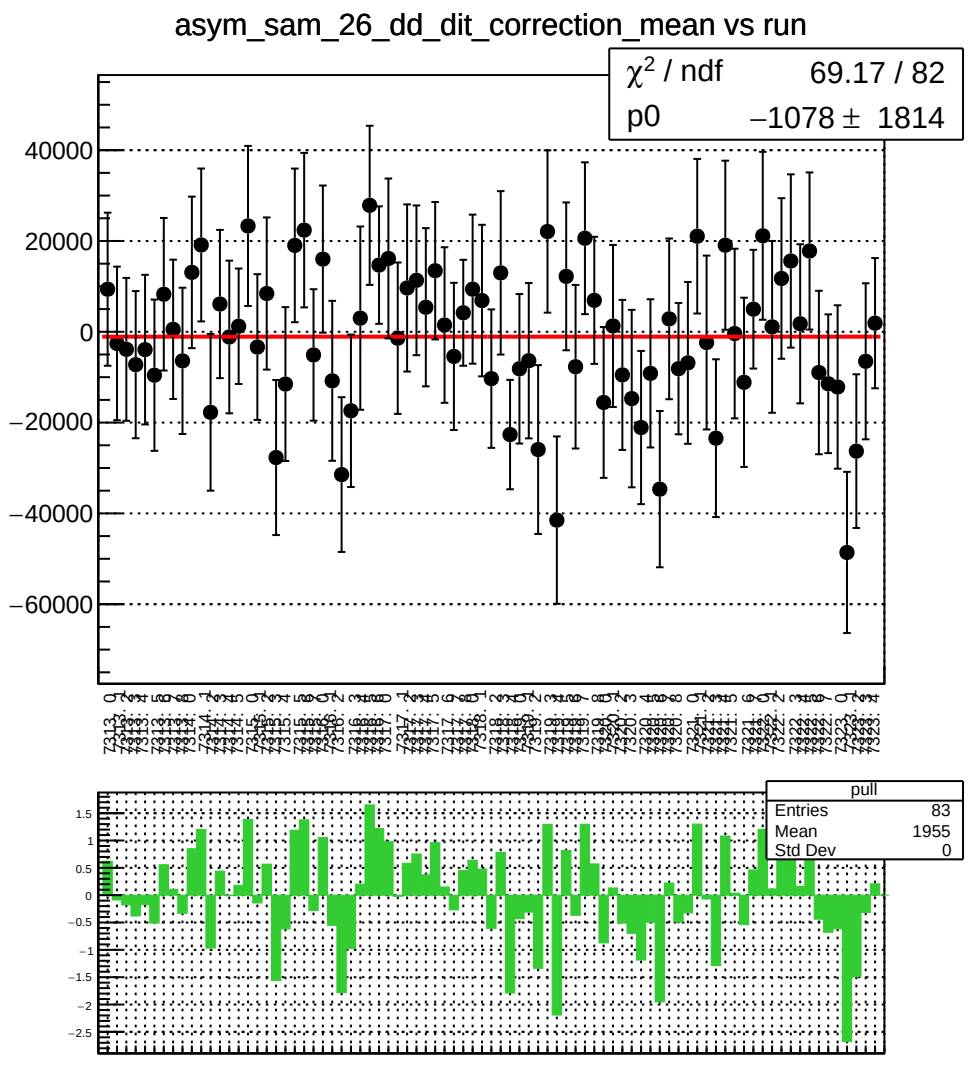

pull1D
Entries 83
Mean −0.001101
Std Dev 0.9101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

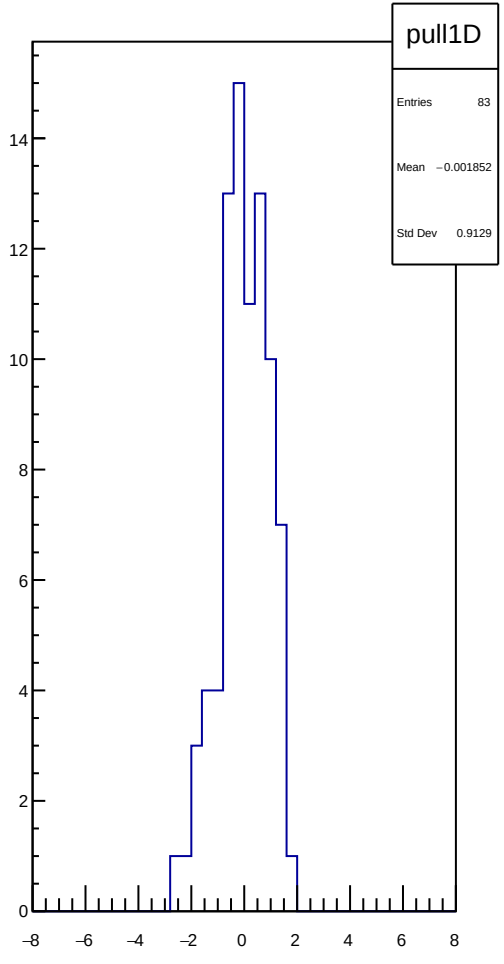

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4687 / 82
p0 1579 ± 1.245
1900
1800
1700
1600
1500
1400

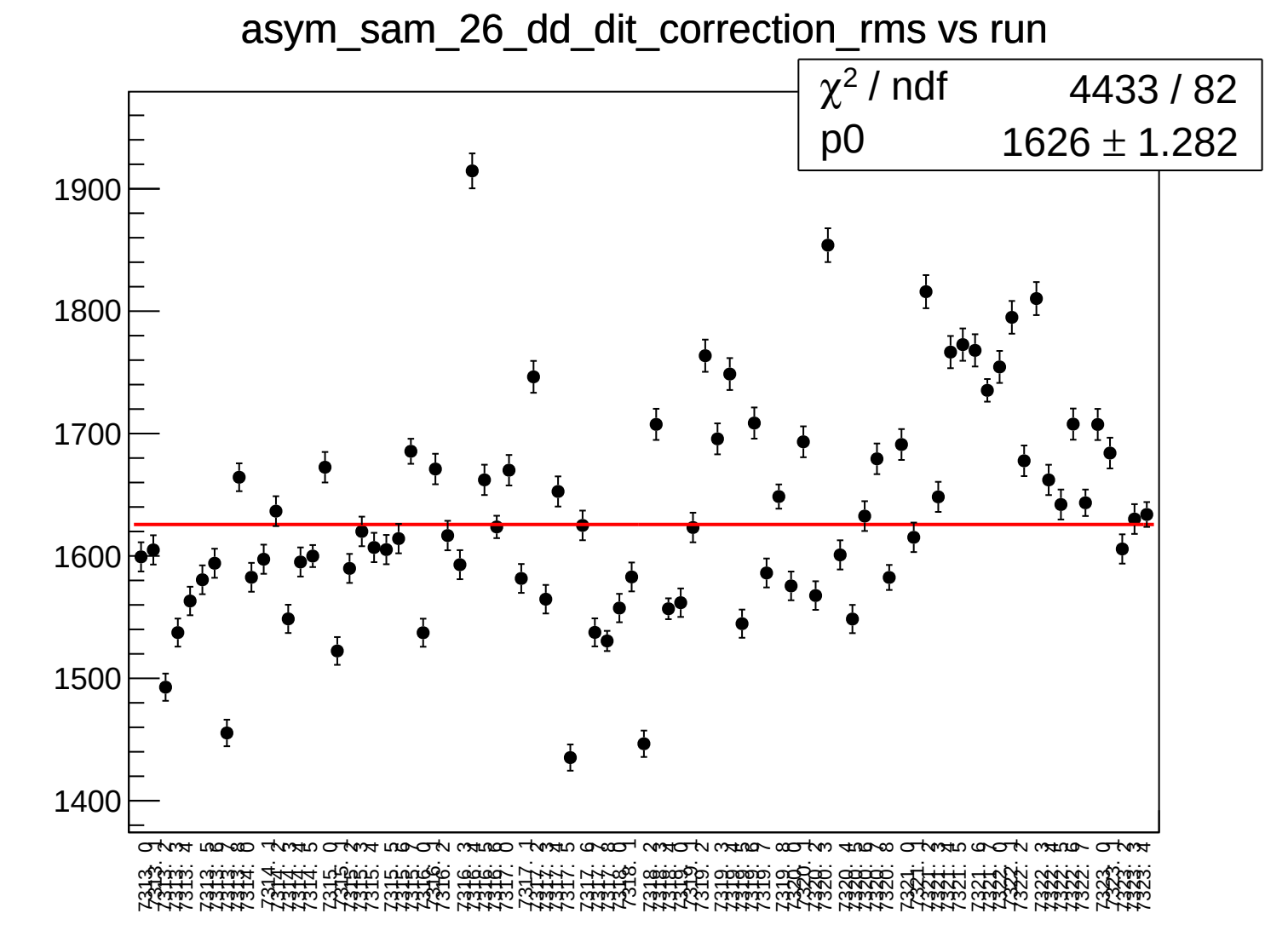

dit_asym_sam_26_dd_mean vs run
χ² / ndf 98.69 / 82
p0 −568.8 ± 235.9
pull
Entries 83
Mean −328.1
Std Dev 0

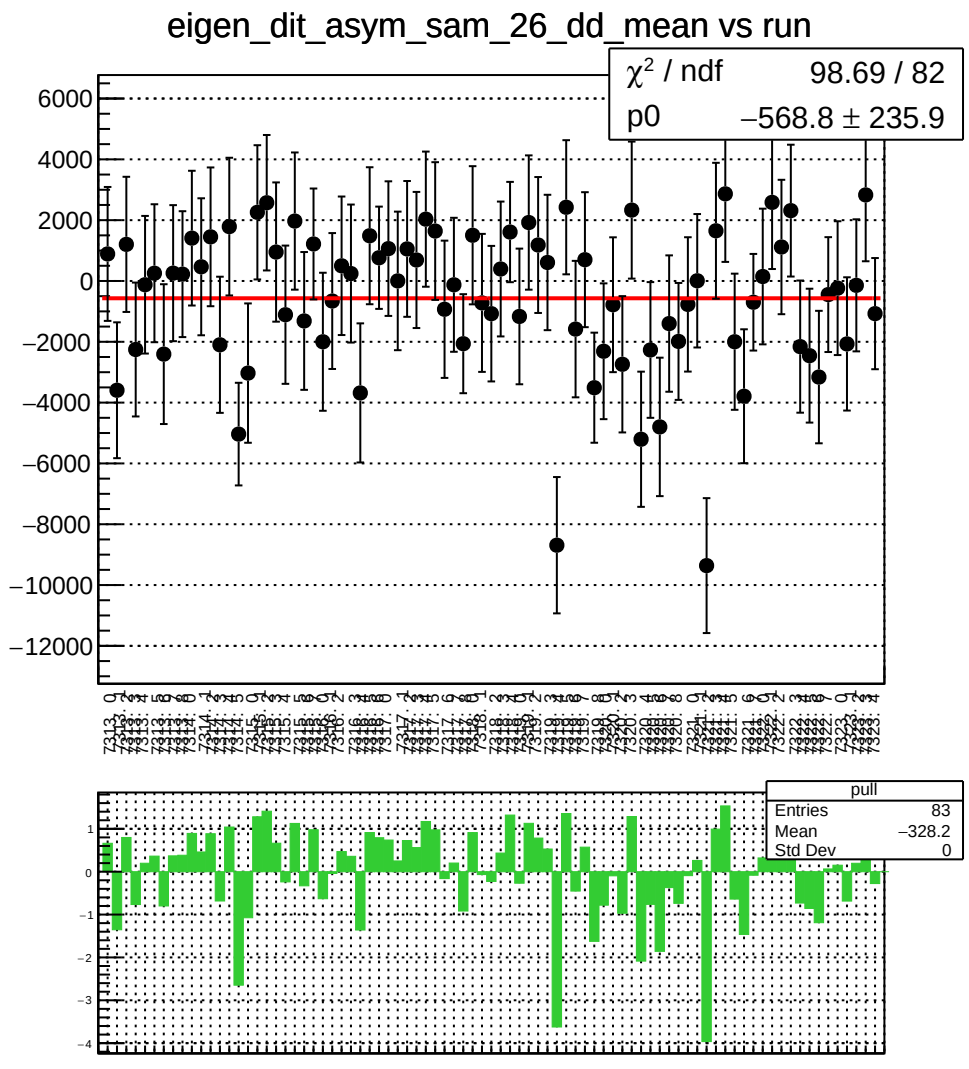

pull1D
Entries 83
Mean 0.008602
Std Dev 1.09

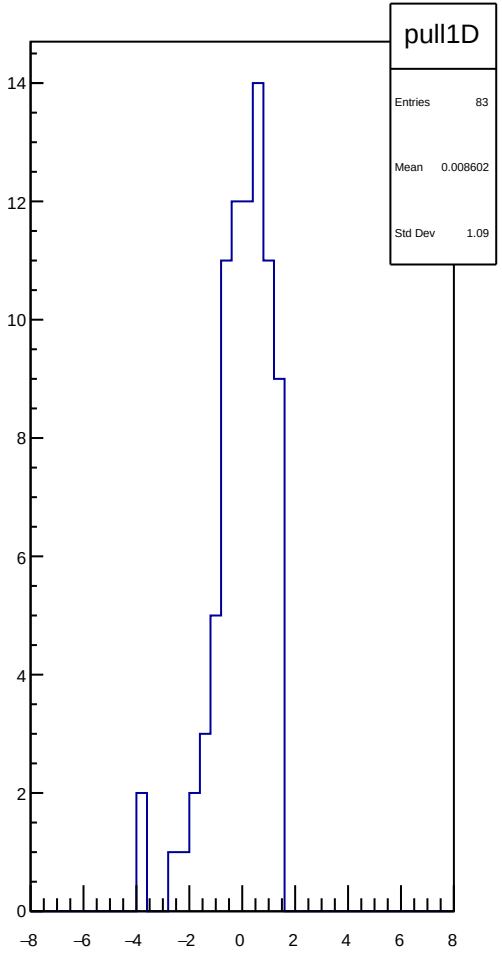

dit_asym_sam_26_dd_rms vs run
χ² / ndf 312.6 / 82
p0 211.7 ± 0.1668
220
218
216
214
212
210
208
206
204
202

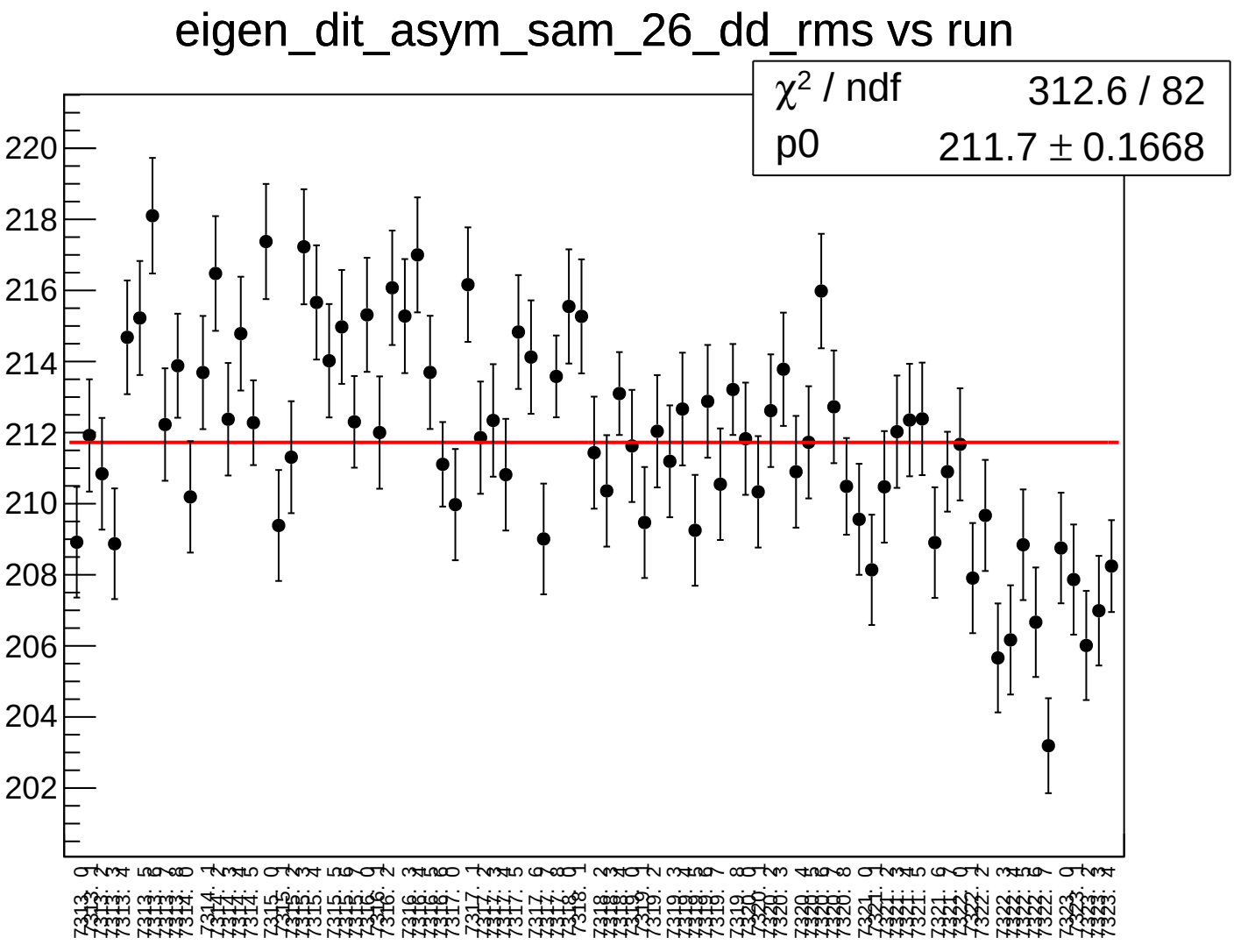

asym_sam_26_dd_dit_correction_mean vs run
χ^2 / ndf 69.17 / 82
p0 −1078 ± 1814
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 1955
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

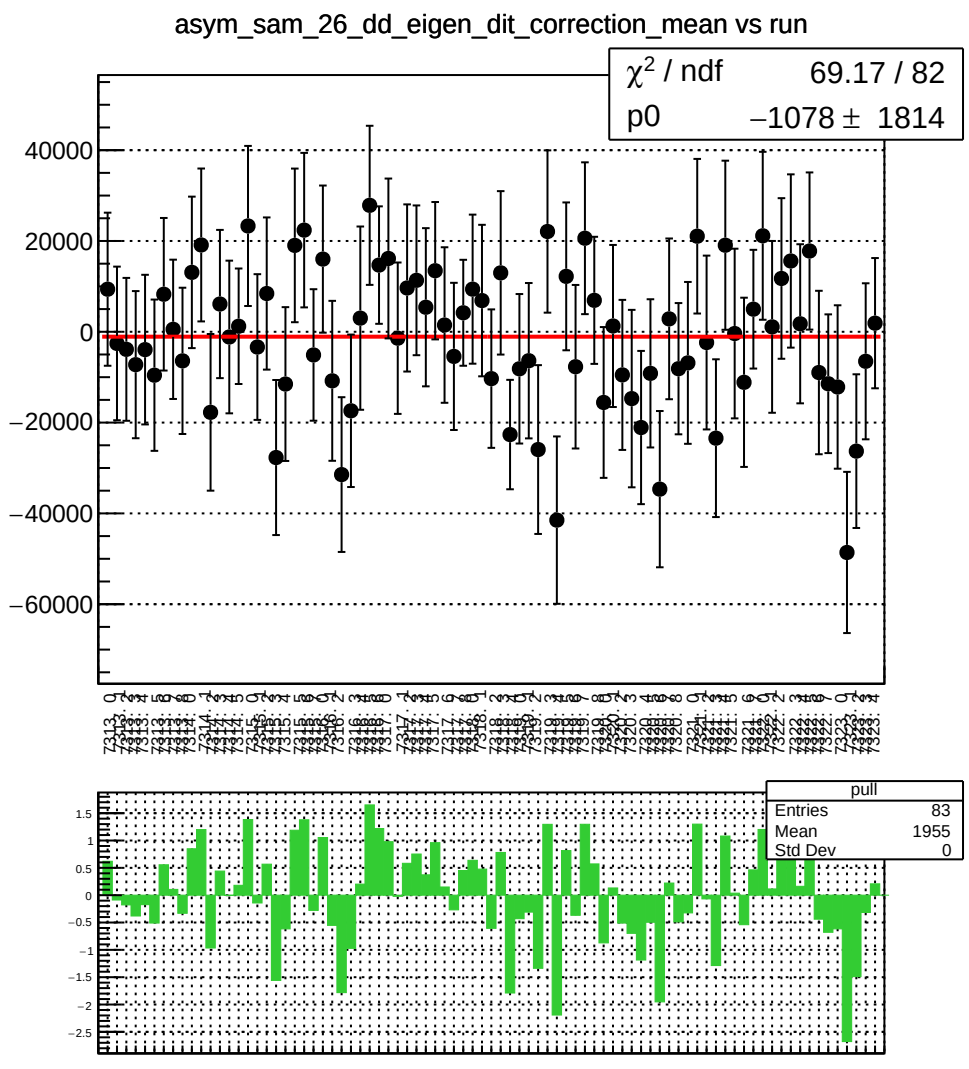

pull1D
Entries 83
Mean −0.001852
Std Dev 0.9129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

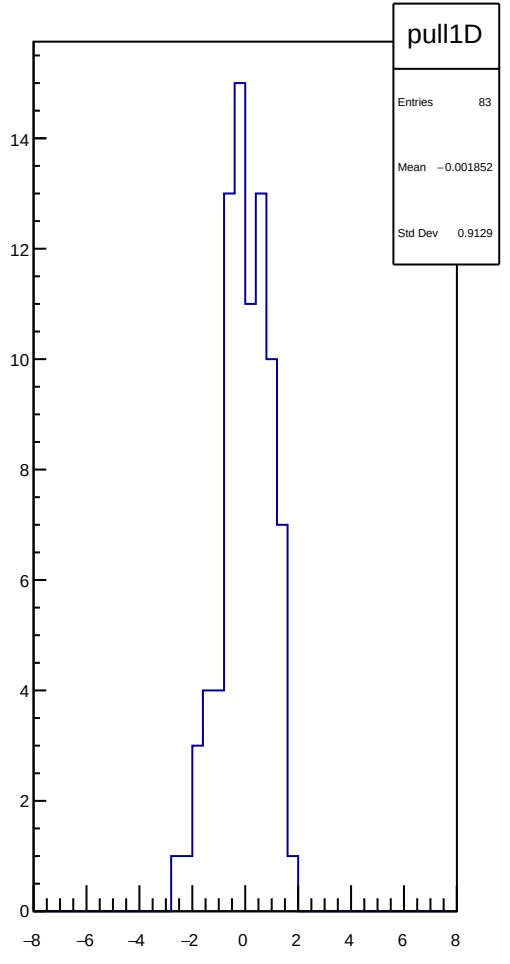

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4433 / 82
p0 1626 ± 1.282
1900
1800
1700
1600
1500
1400

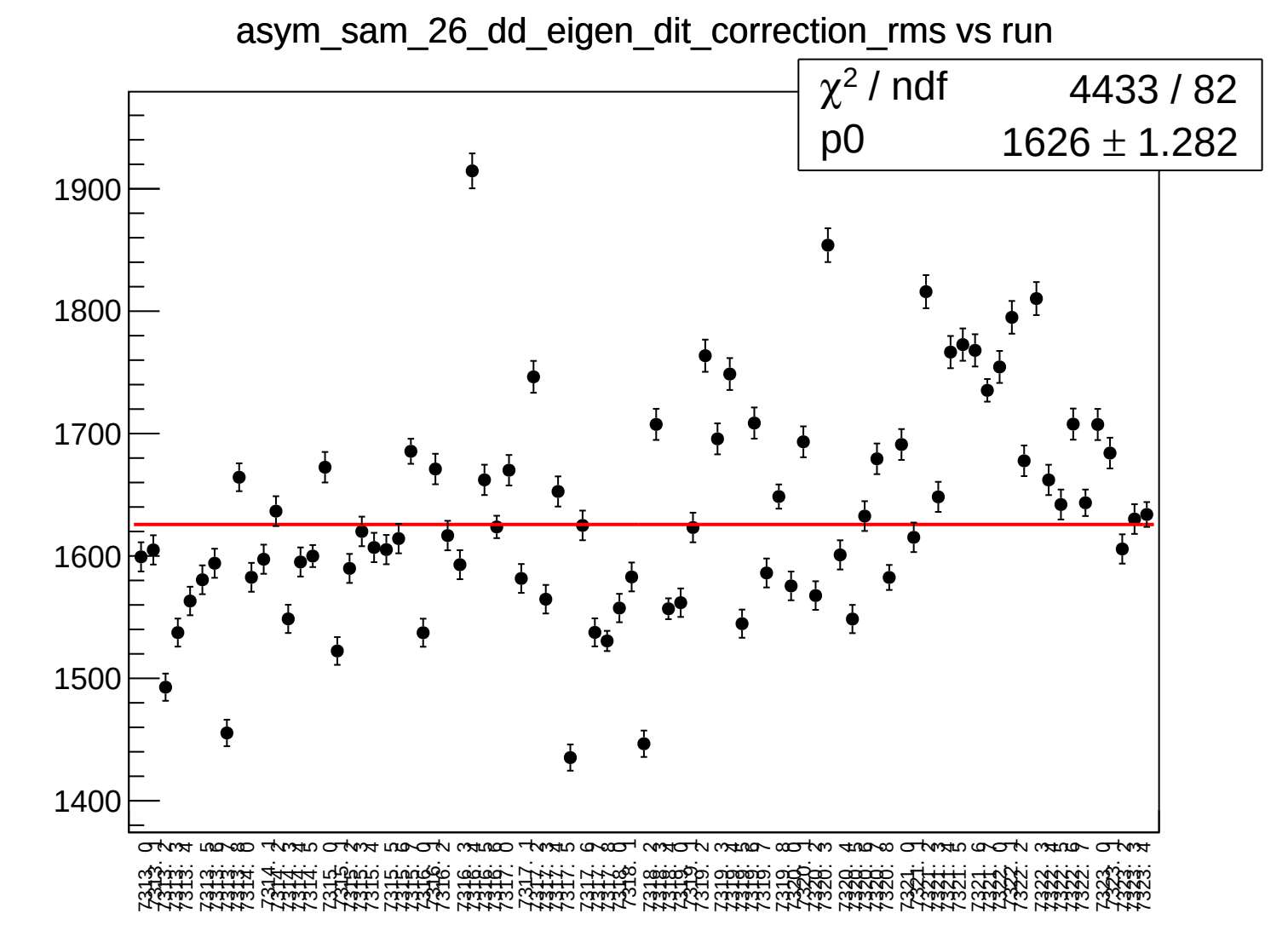

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 98.69 / 82
p0 −568.8 ± 235.9
pull
Entries 83
Mean −328.2
Std Dev 0

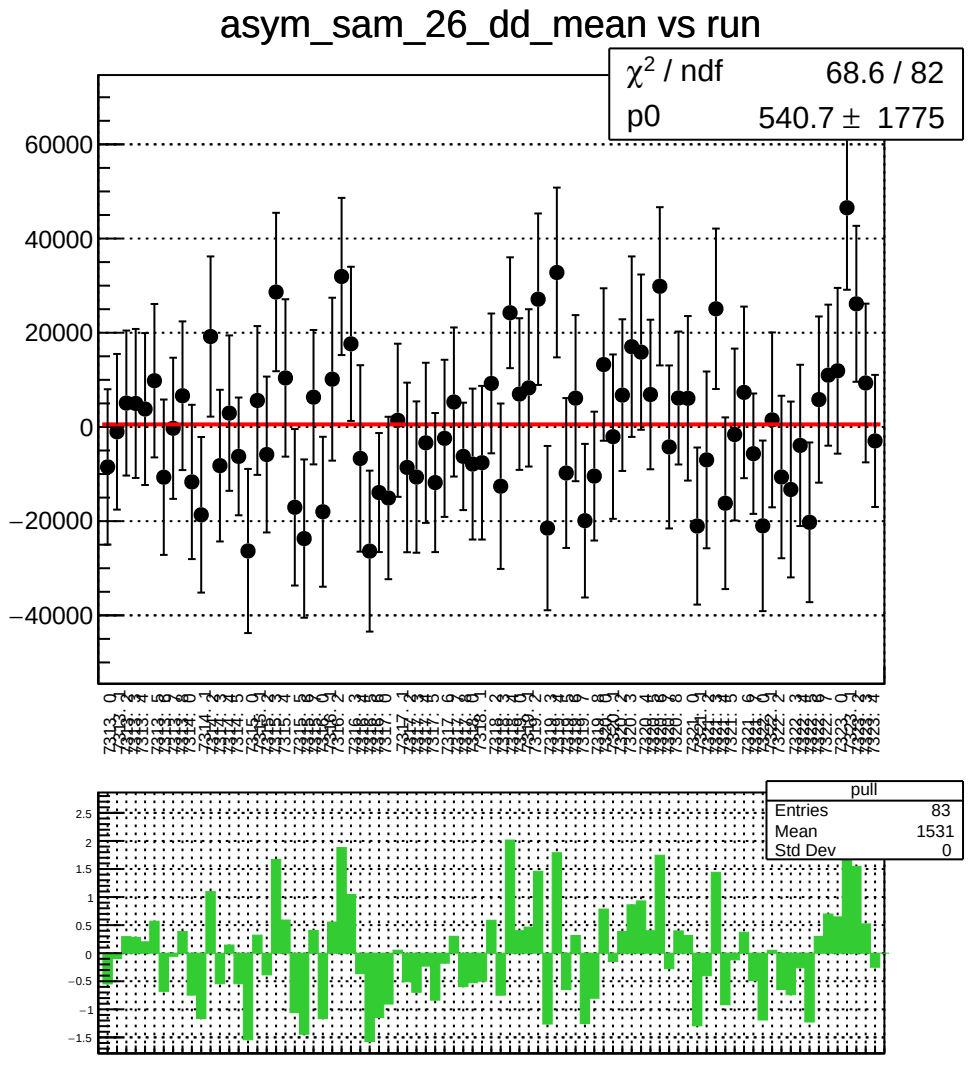

pull1D
Entries 83
Mean 0.008602
Std Dev 1.09

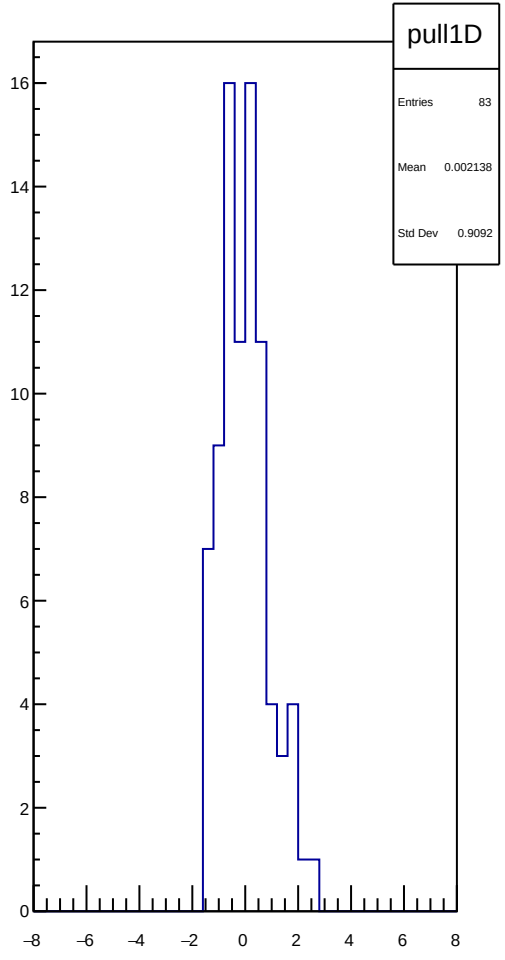

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 312.6 / 82
p0 211.7 ± 0.1668
220
218
216
214
212
210
208
206
204
202

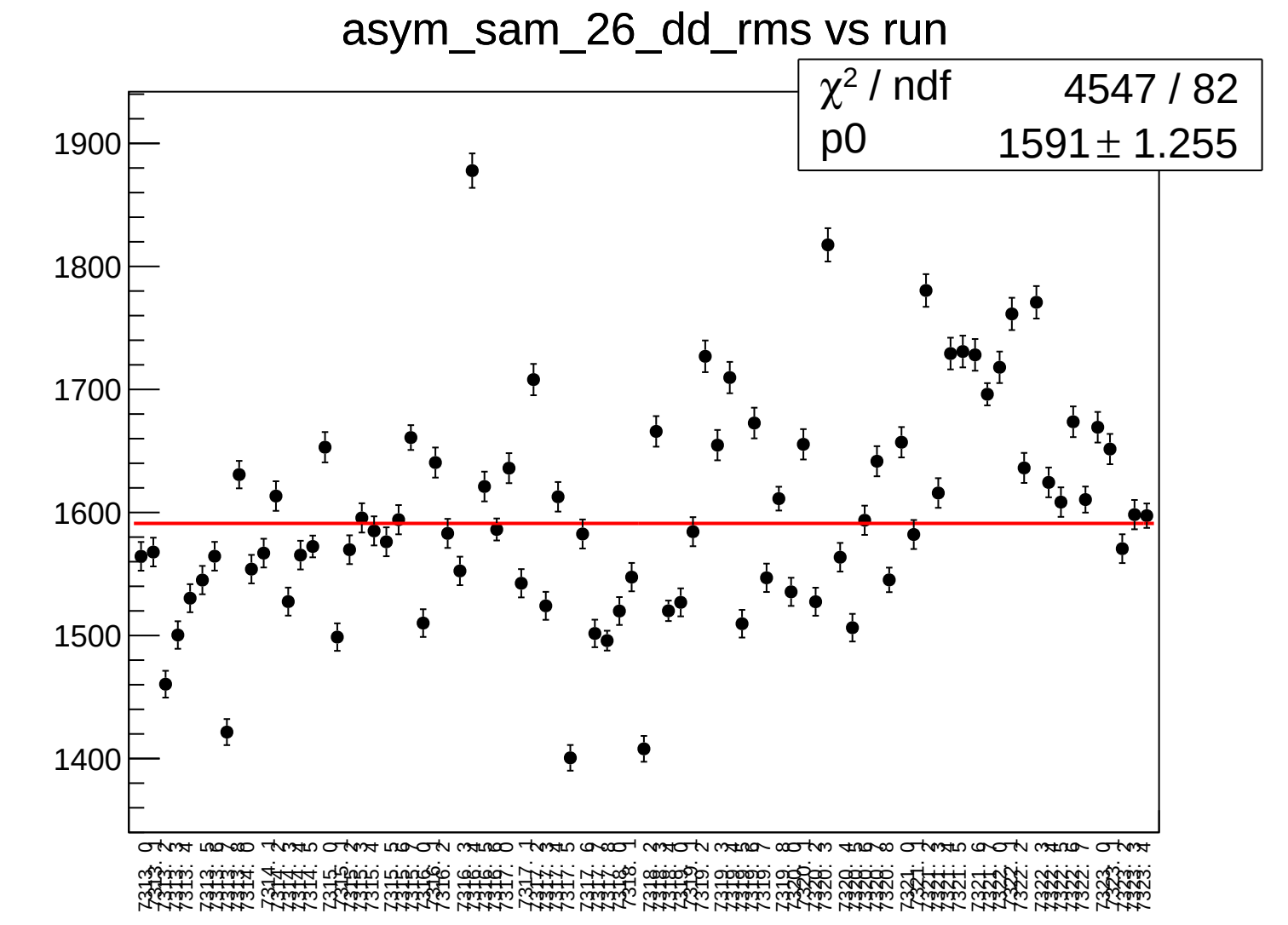

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.17 / 82
p0 −1078 ± 1814
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 1955
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

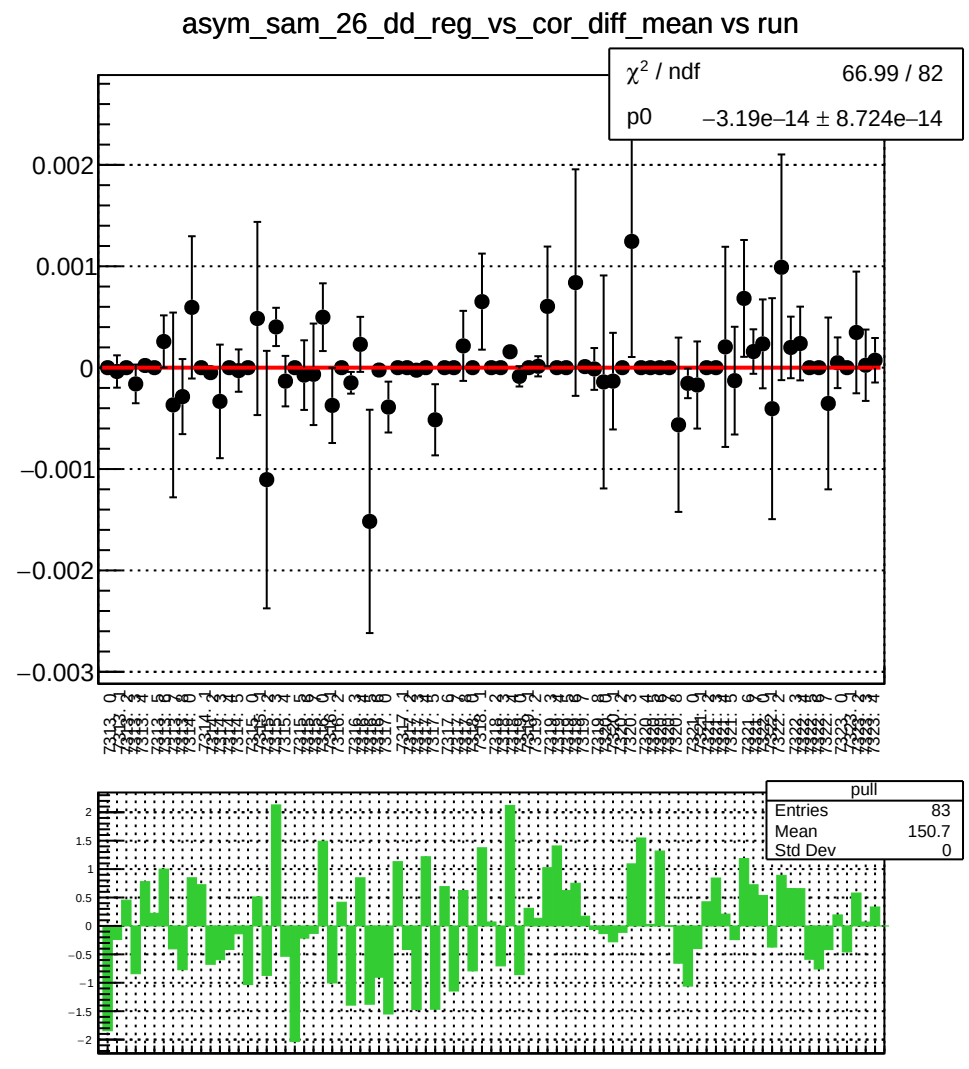

pull1D
Entries 83
Mean −0.001852
Std Dev 0.9129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

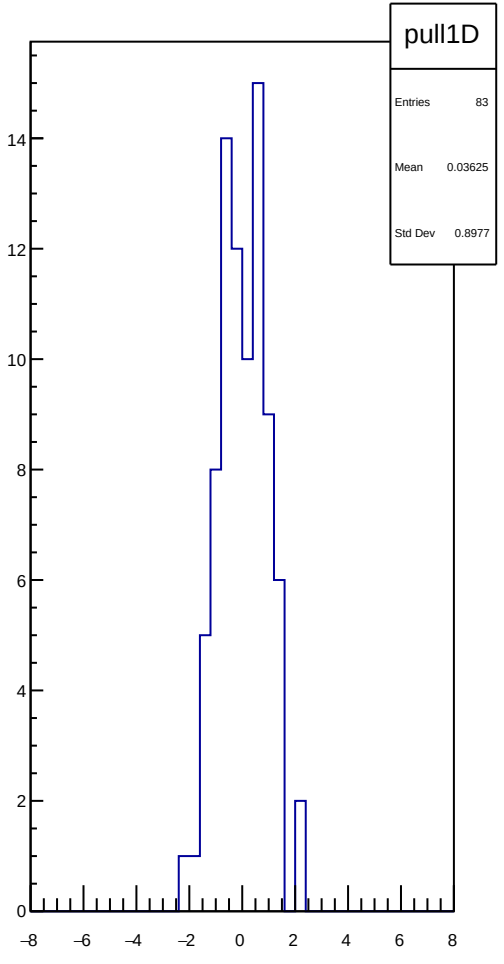

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4433 / 82
p0 1626 ± 1.282
1900
1800
1700
1600
1500
1400

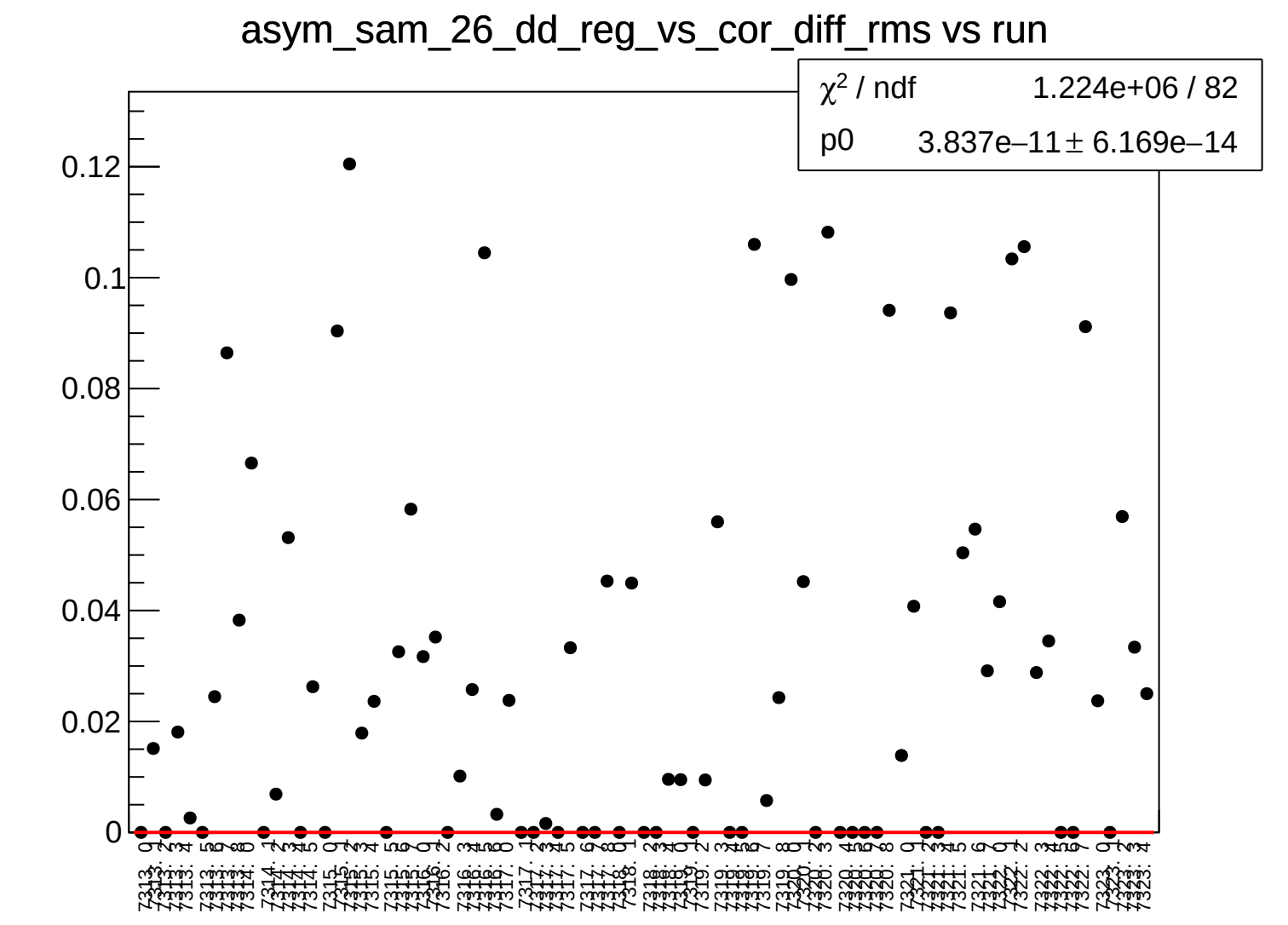

asym_sam_26_dd_mean vs run
χ² / ndf 68.6 / 82
p0 540.7 ± 1775
pull
Entries 83
Mean 1531
Std Dev 0

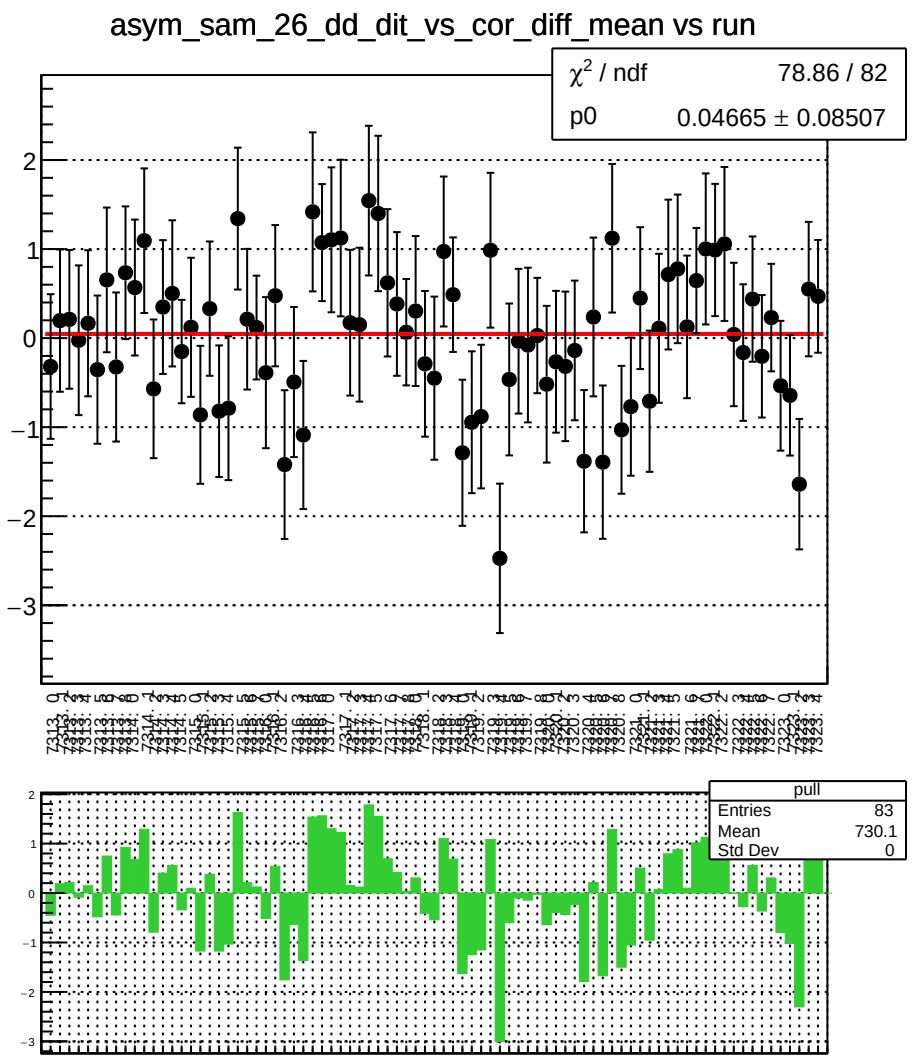

pull1D
Entries 83
Mean 0.002138
Std Dev 0.9092

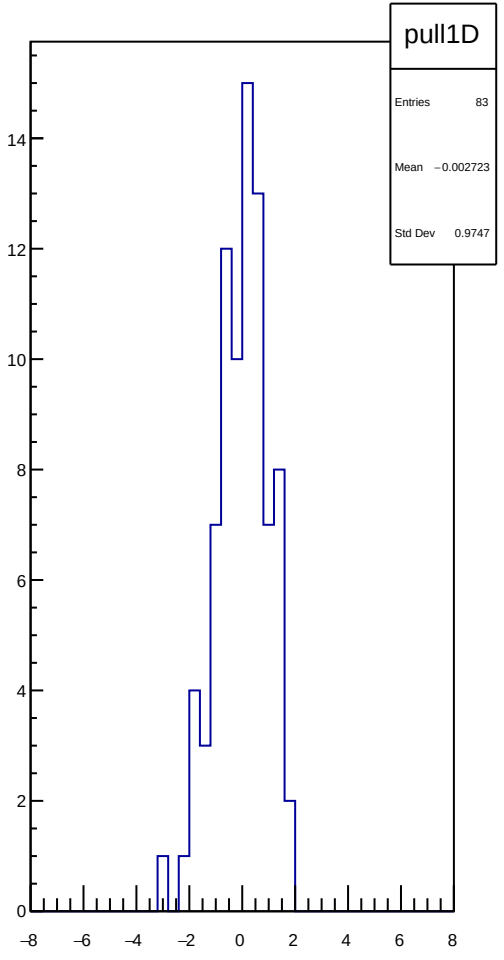

asym_sam_26_dd_rms vs run
χ² / ndf 4547 / 82
p0 1591 ± 1.255
1900
1800
1700
1600
1500
1400

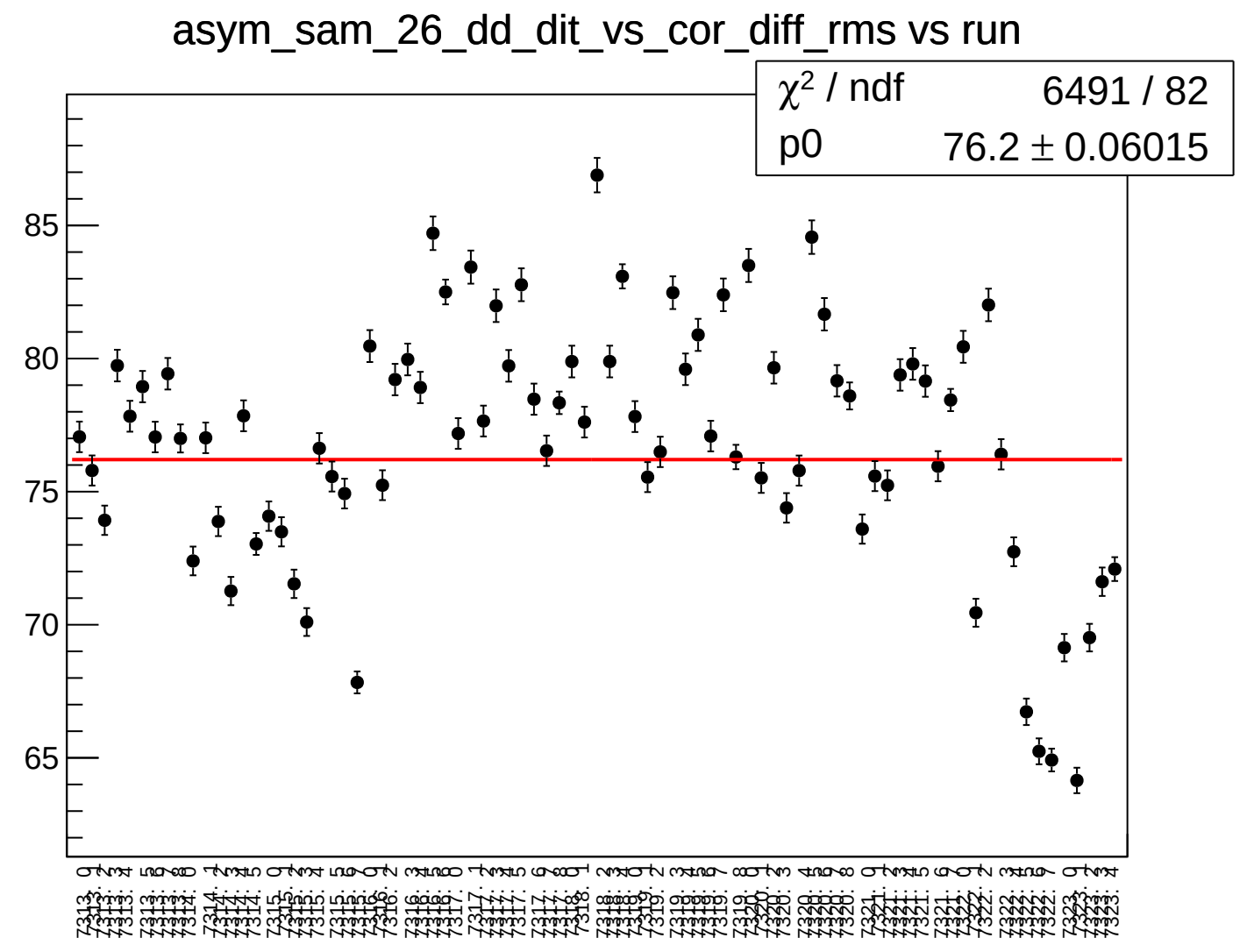

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.99 / 82
p0 −3.19e−14 ± 8.724e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 83
Mean 150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

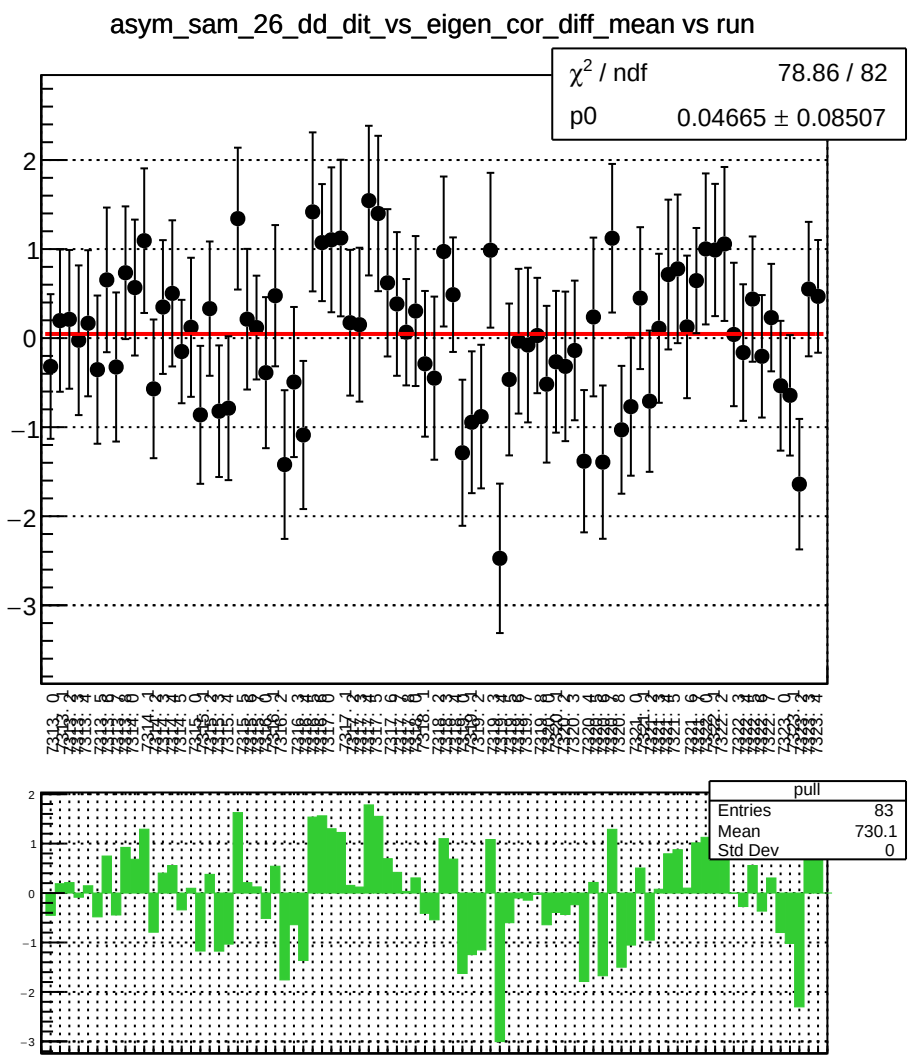

pull1D
Entries 83
Mean 0.03625
Std Dev 0.8977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

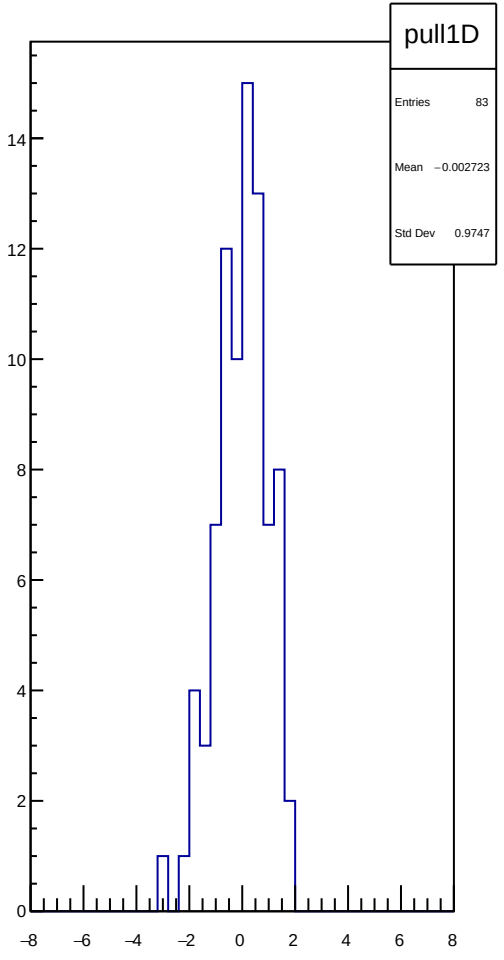

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 82
p0 3.837e−11 ± 6.169e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

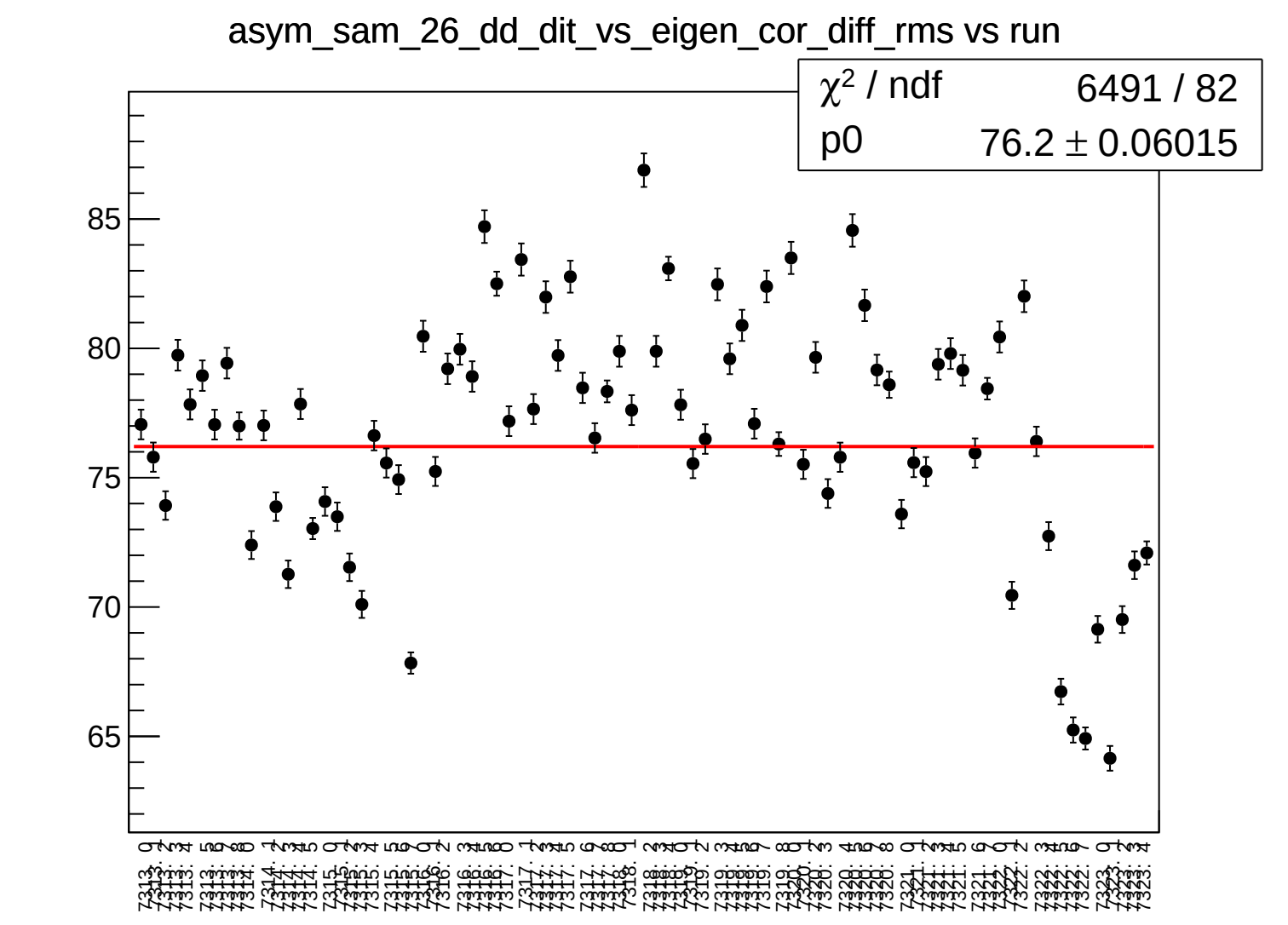

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 82
p0 0.04665 ± 0.08507
pull
Entries 83
Mean 730.1
Std Dev 0

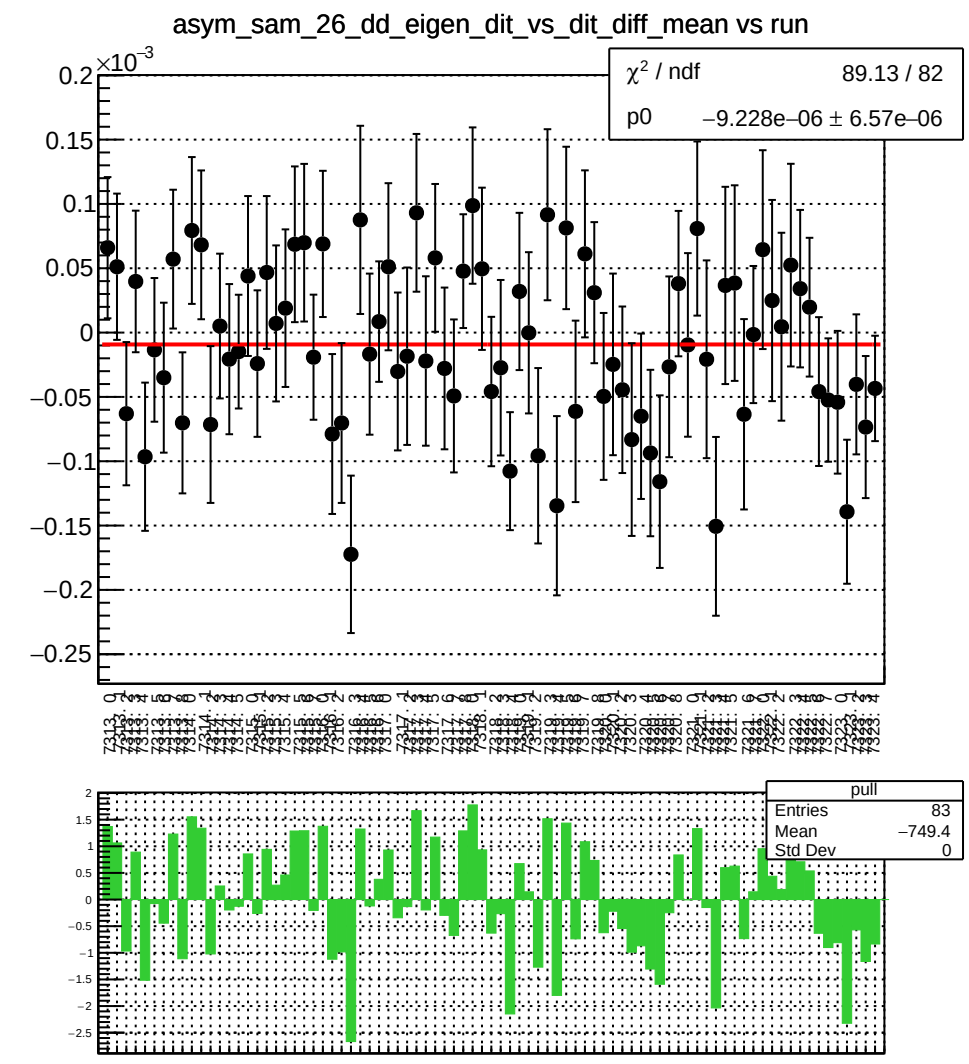

pull1D
Entries 83
Mean −0.002723
Std Dev 0.9747

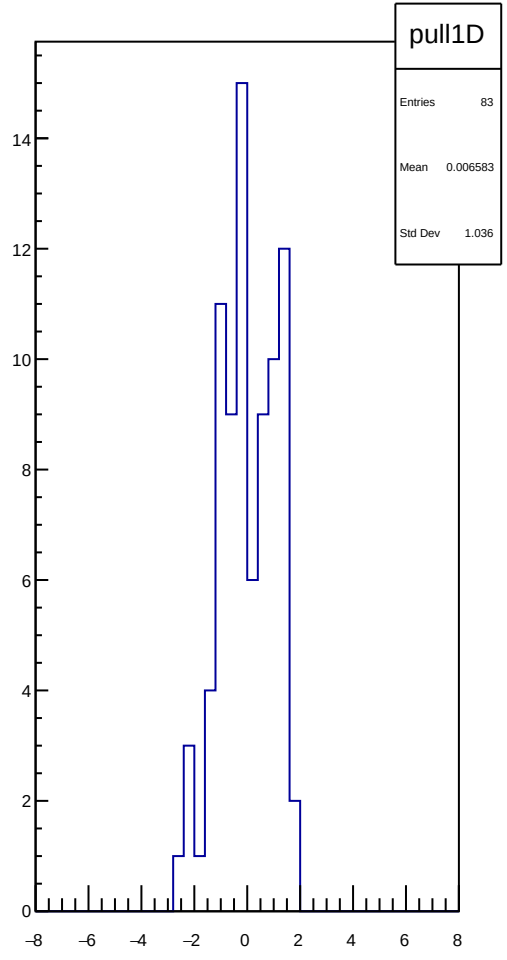

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6491 / 82
p0 76.2 ± 0.06015
85
80
75
70
65

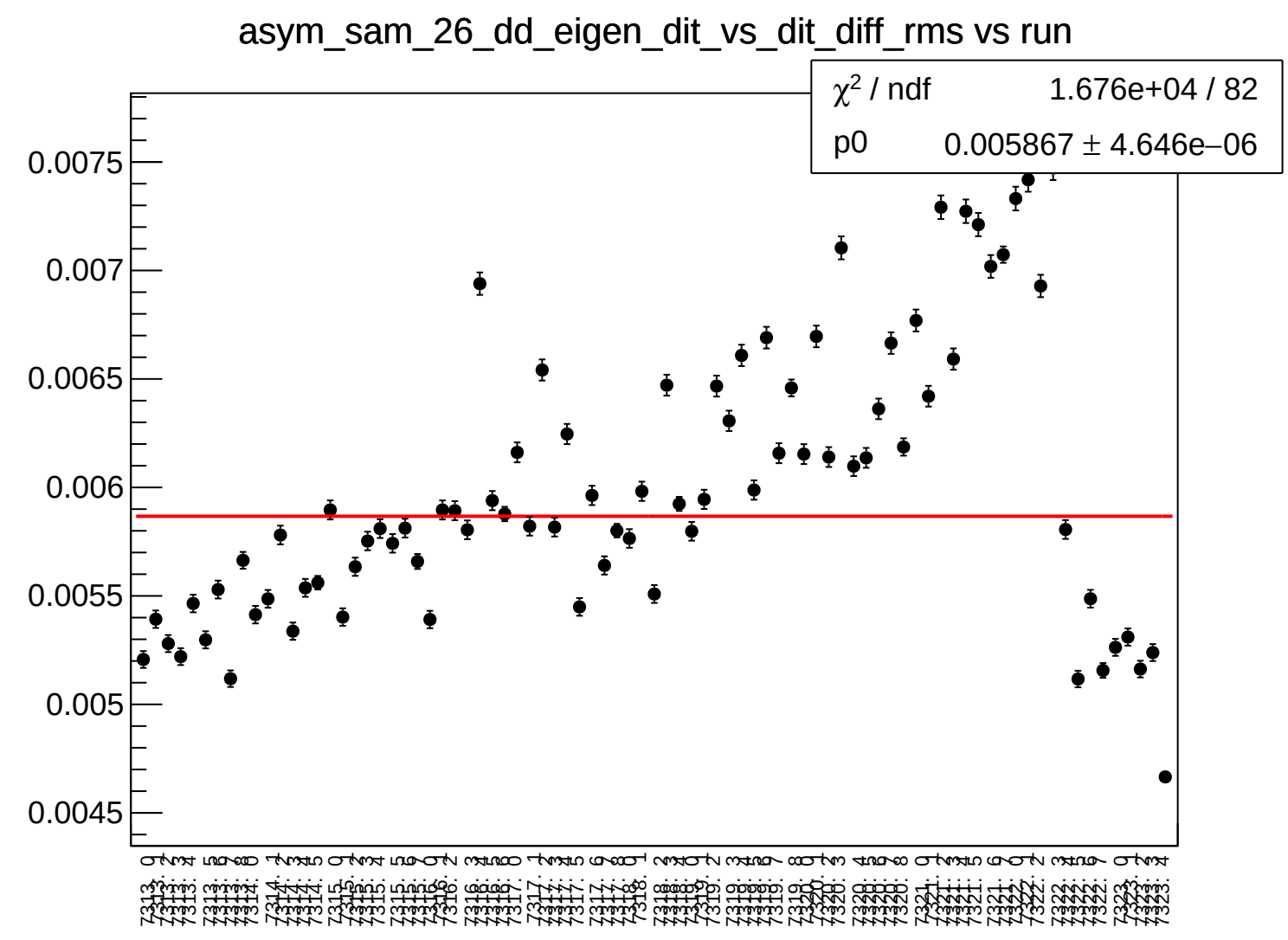

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 82
p0 0.04665 ± 0.08507
pull
Entries 83
Mean 730.1
Std Dev 0

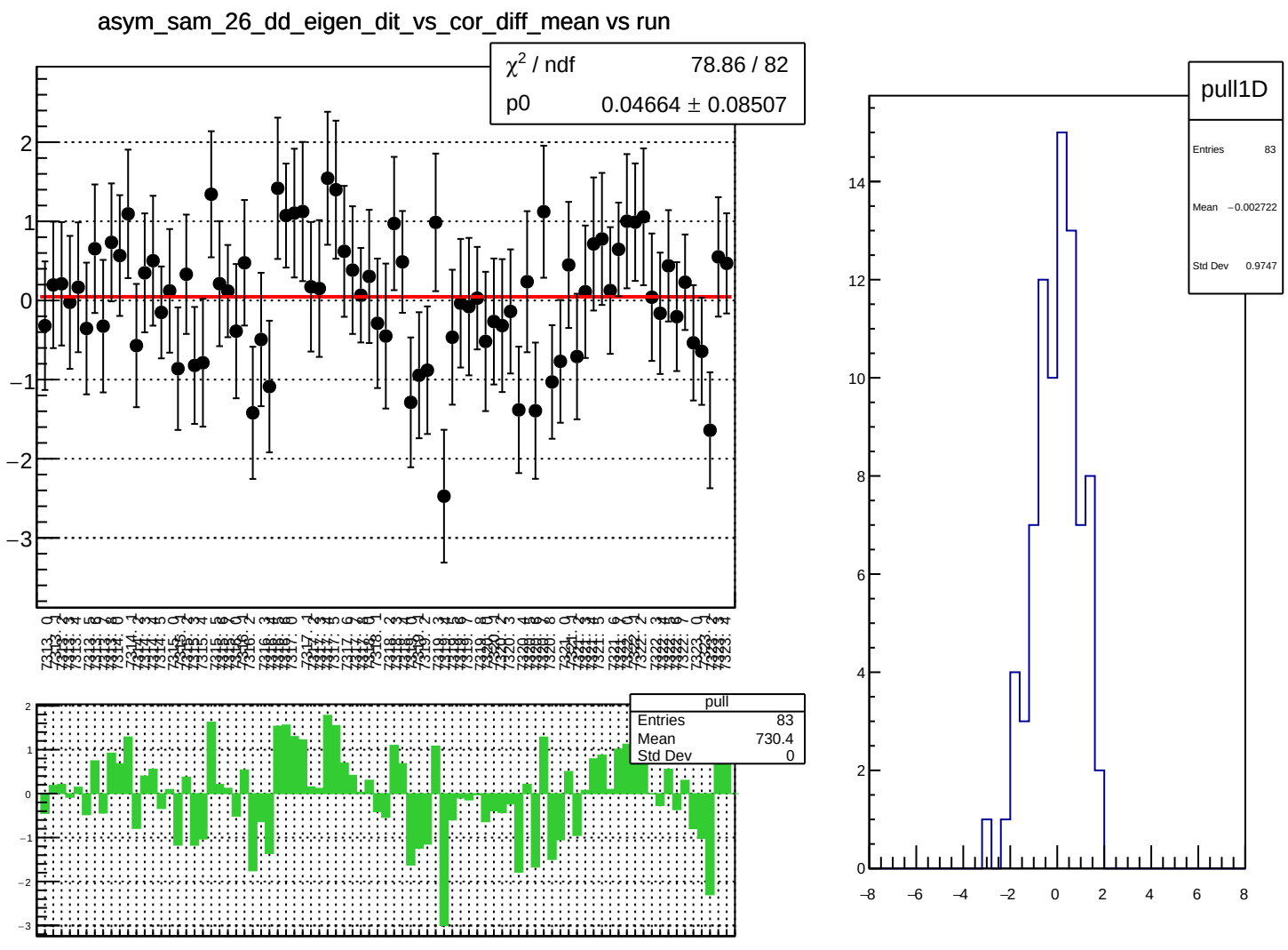

pull1D
Entries 83
Mean −0.002723
Std Dev 0.9747

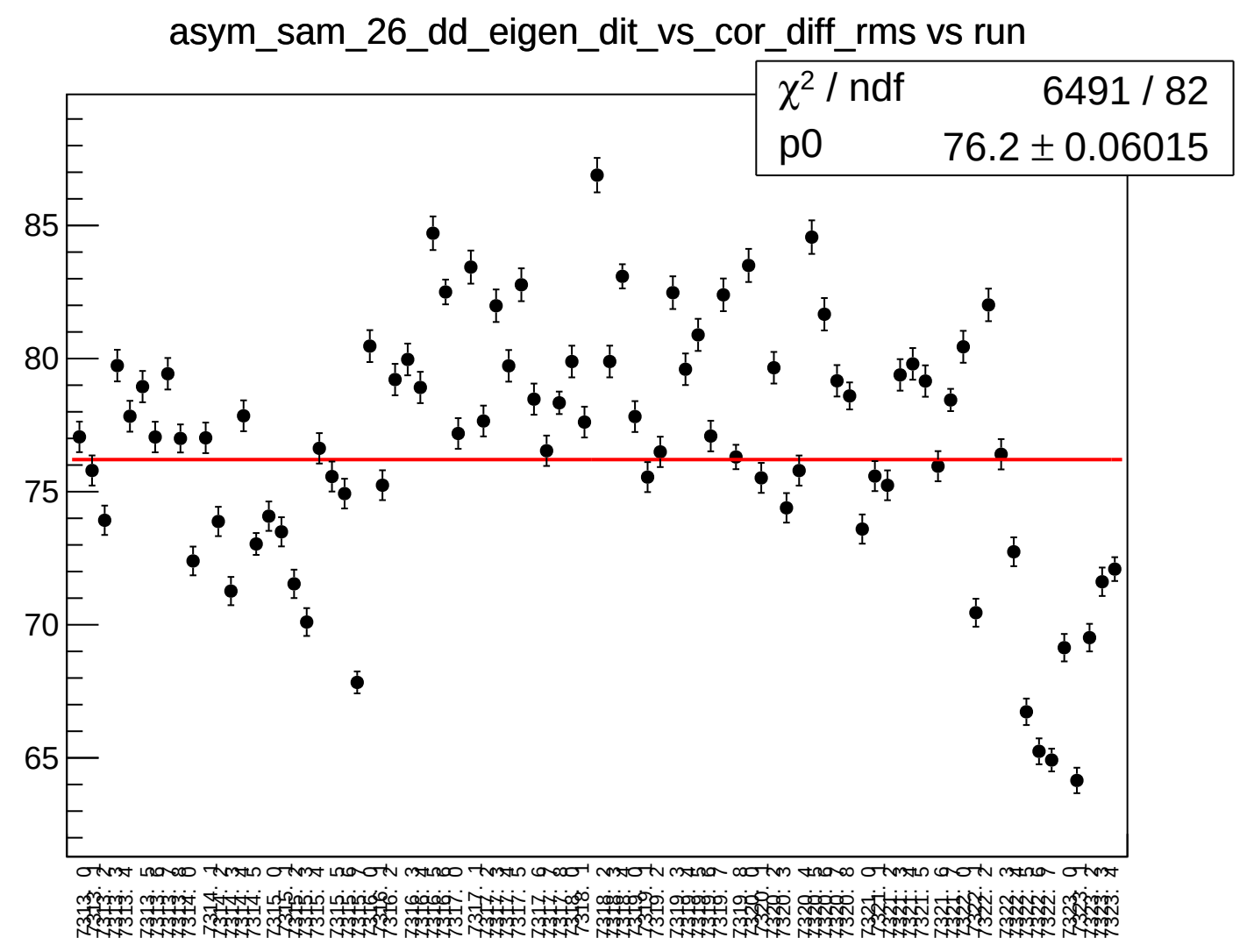

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6491 / 82
p0 76.2 ± 0.06015
85
80
75
70
65

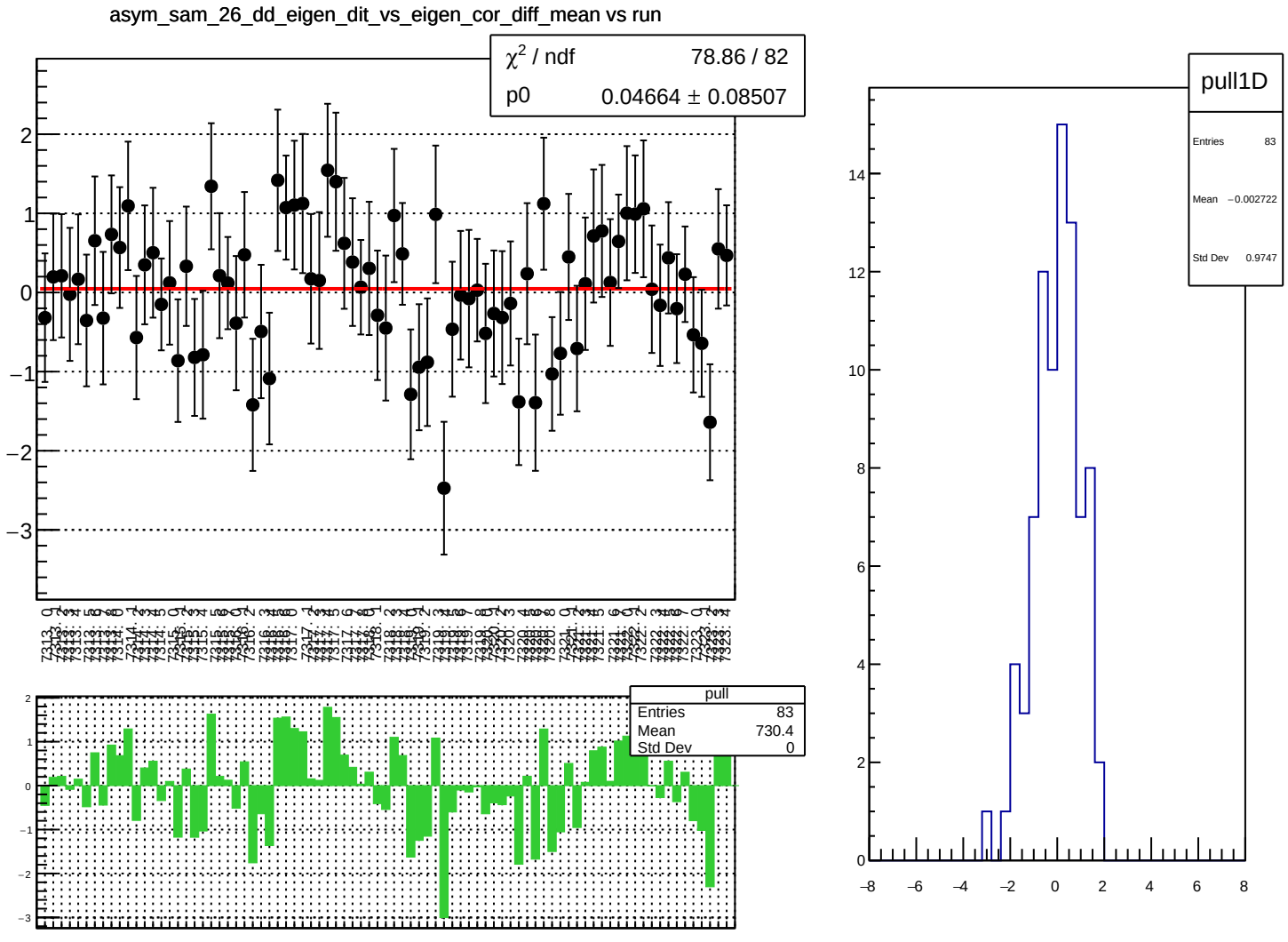

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.13 / 82
p0 −9.228e−06 ± 6.57e−06
×10⁻³
pull
Entries 83
Mean −749.4
Std Dev 0

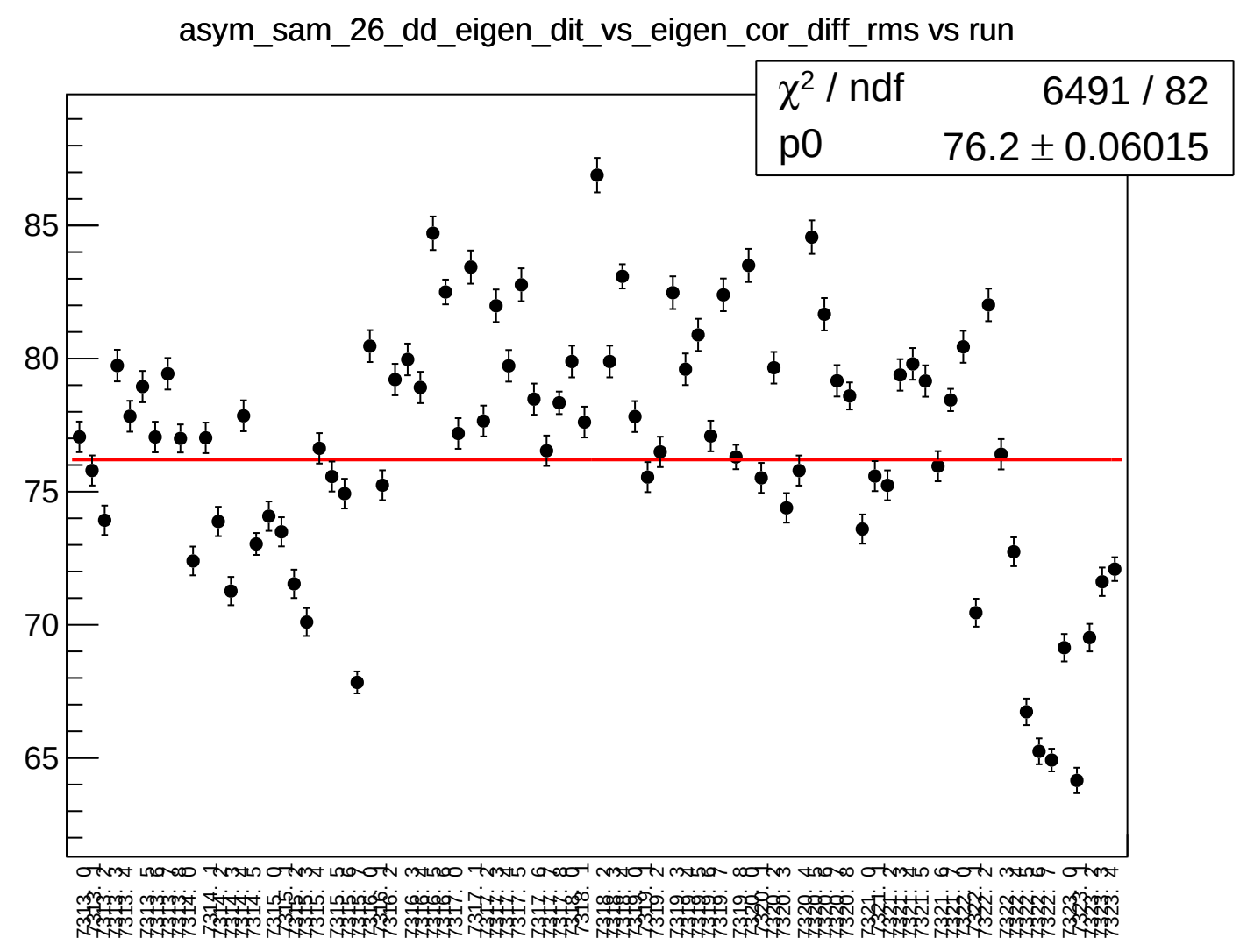

pull1D
Entries 83
Mean 0.006583
Std Dev 1.036

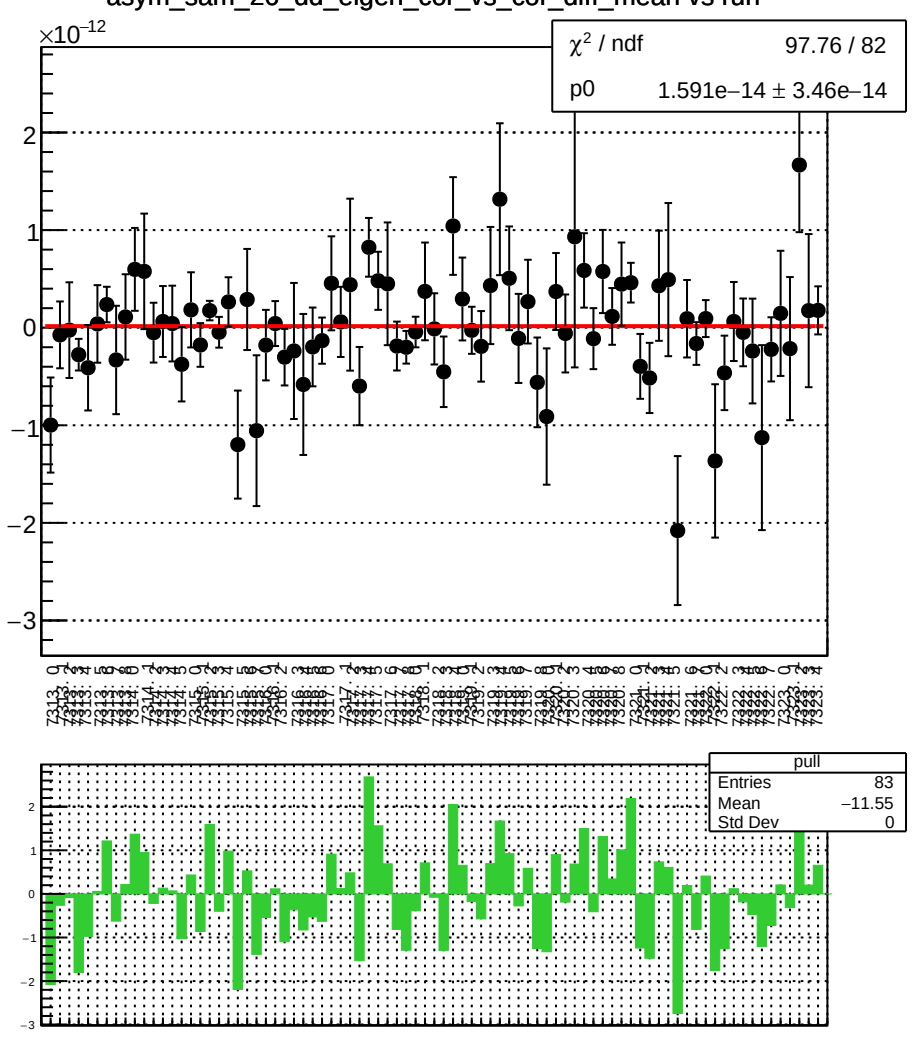

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.676e+04 / 82
p0 0.005867 ± 4.646e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

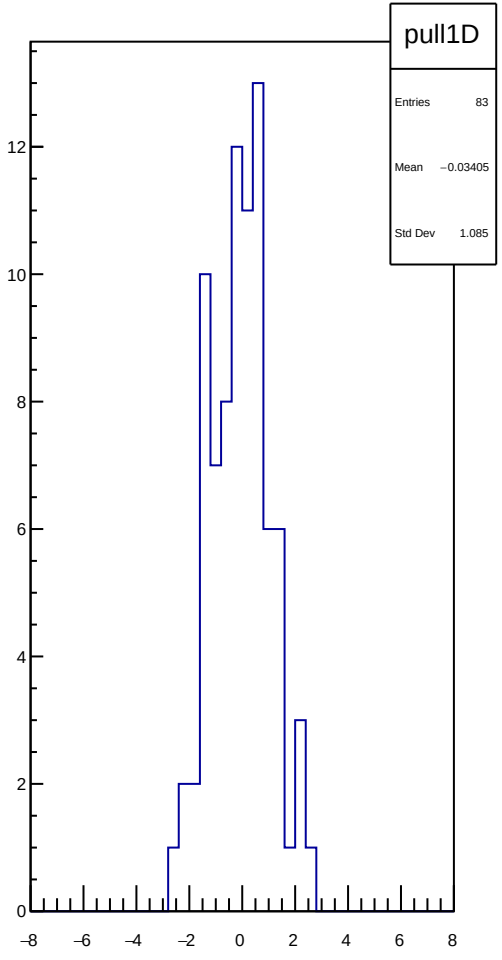

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 82
p0 0.04664 ± 0.08507
pull
Entries 83
Mean 730.4
Std Dev 0
pull1D
Entries 83
Mean −0.002722
Std Dev 0.9747

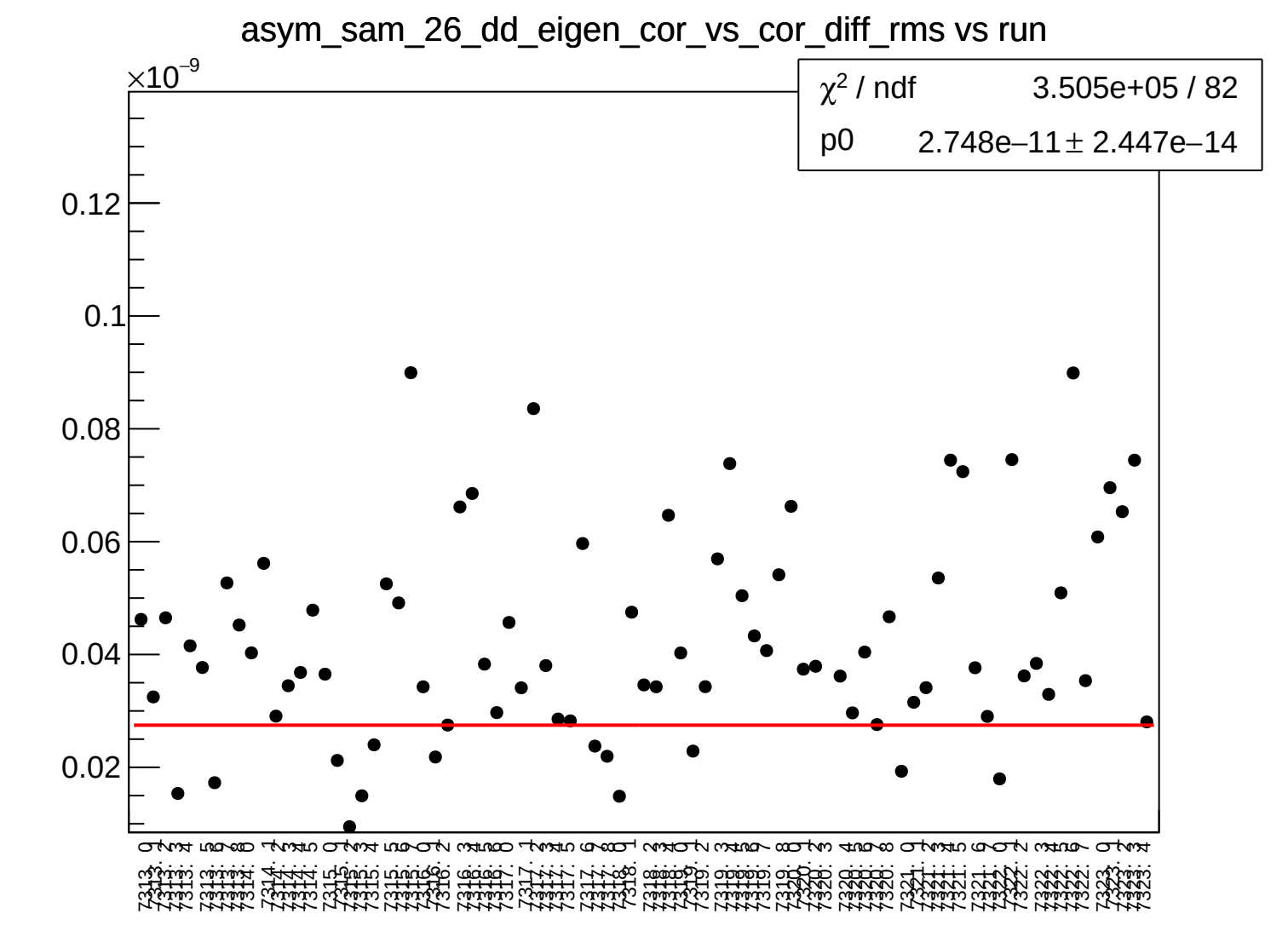

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6491 / 82
p0 76.2 ± 0.06015
85
80
75
70
65

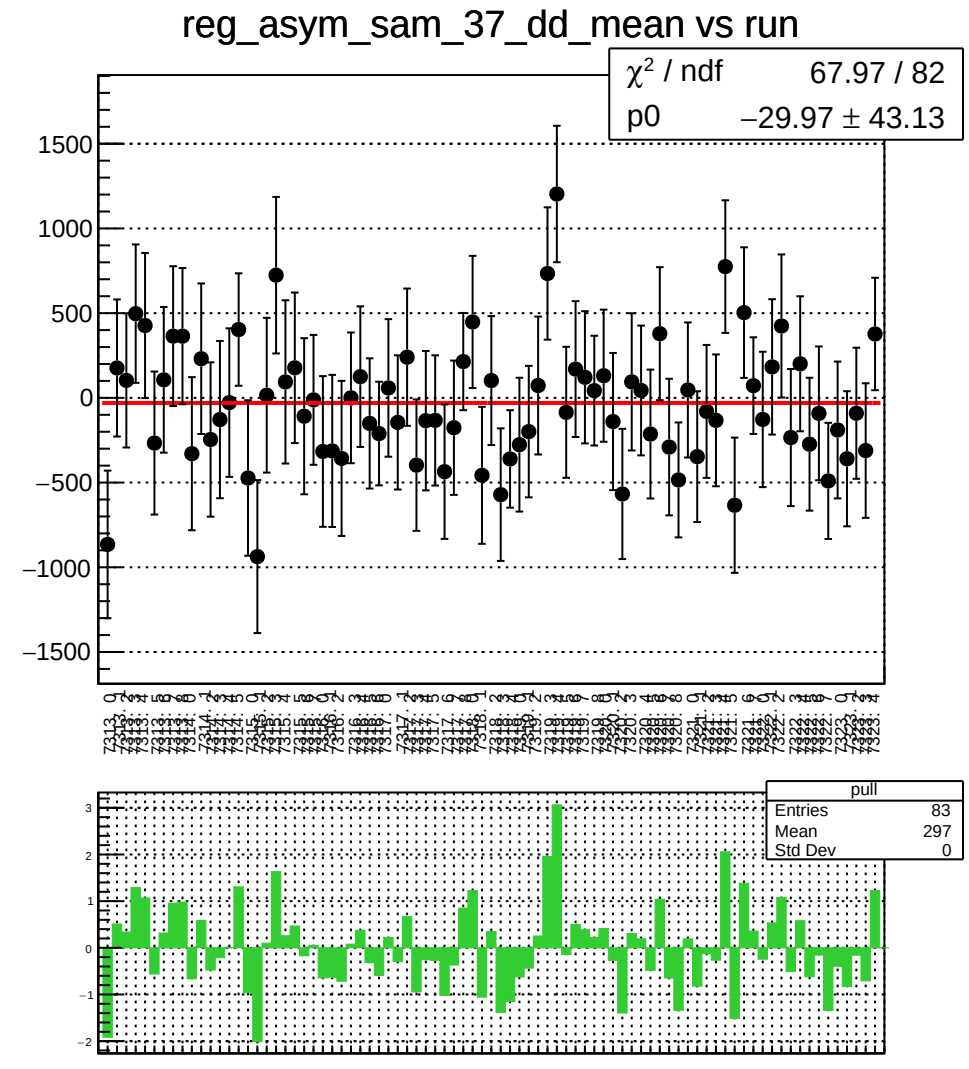

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 82
p0 0.04664 ± 0.08507
pull
Entries 83
Mean 730.4
Std Dev 0
pull1D
Entries 83
Mean −0.002722
Std Dev 0.9747

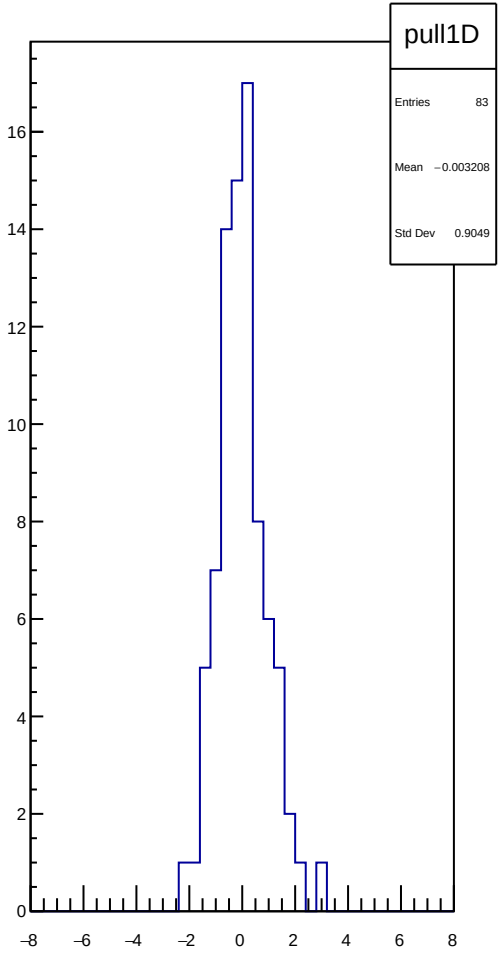

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6491 / 82
p0 76.2 ± 0.06015
85
80
75
70
65

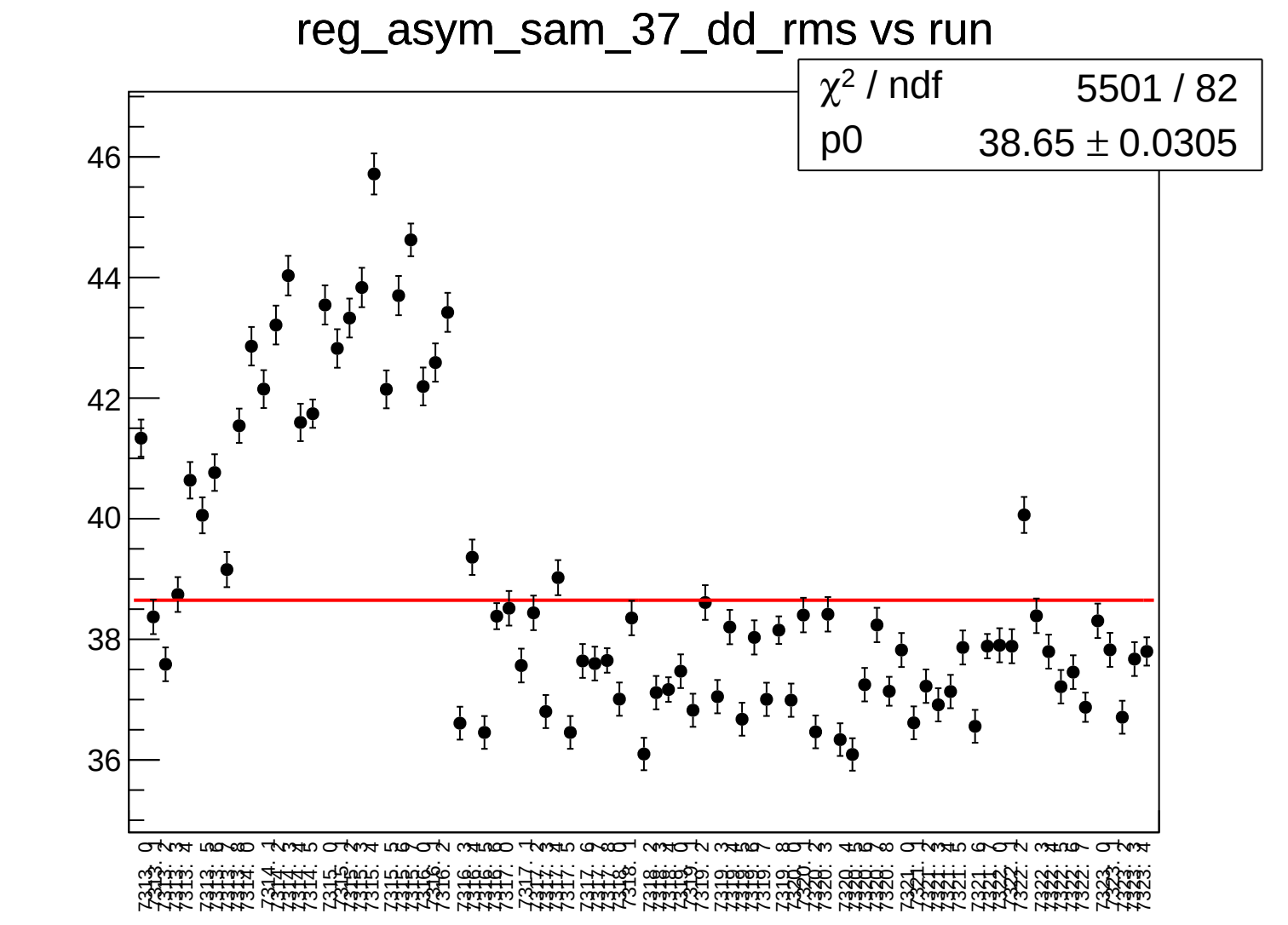

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.76 / 82
p0 1.591e−14 ± 3.46e−14
pull
Entries 83
Mean −11.55
Std Dev 0

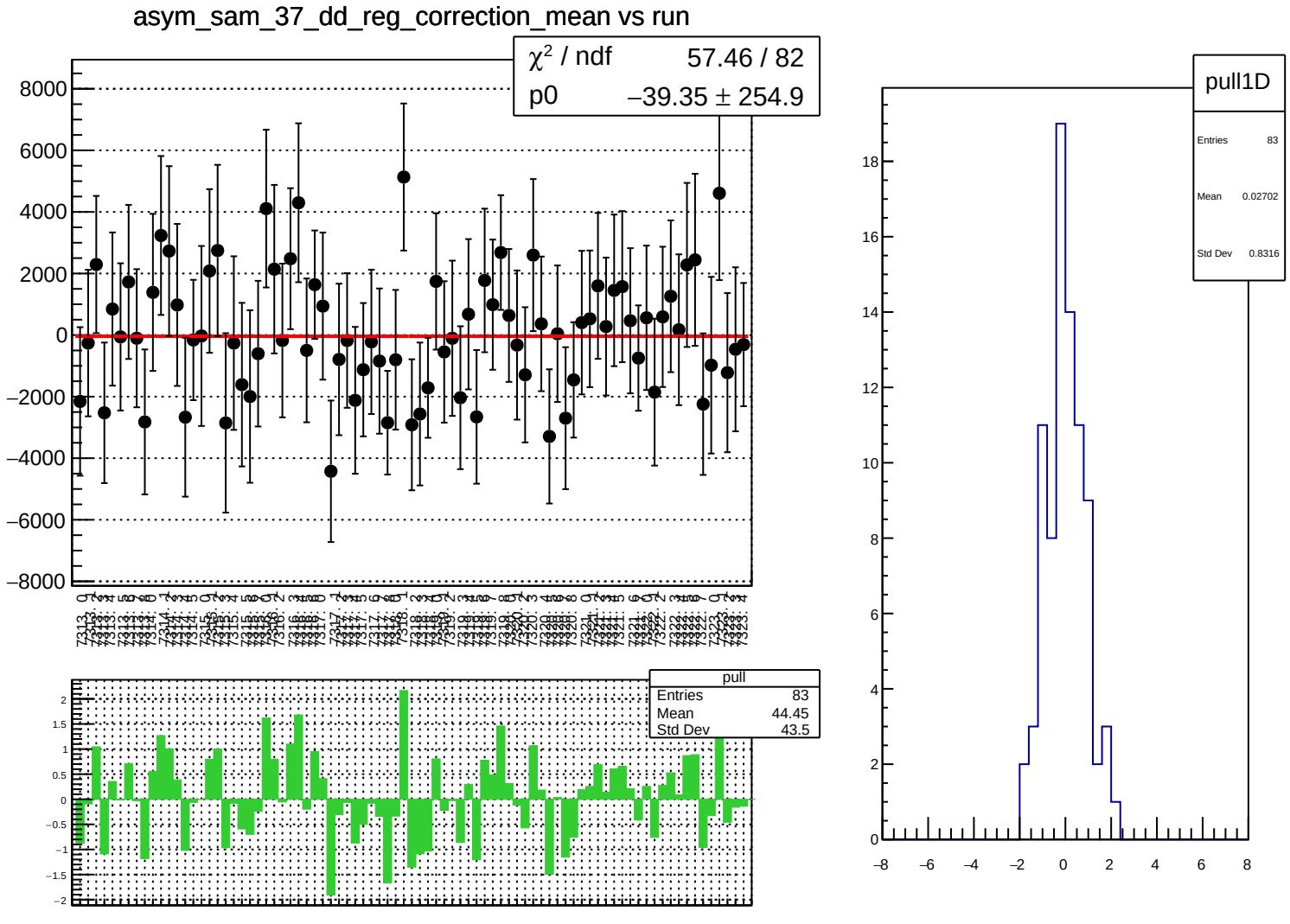

pull1D
Entries 83
Mean −0.03405
Std Dev 1.085

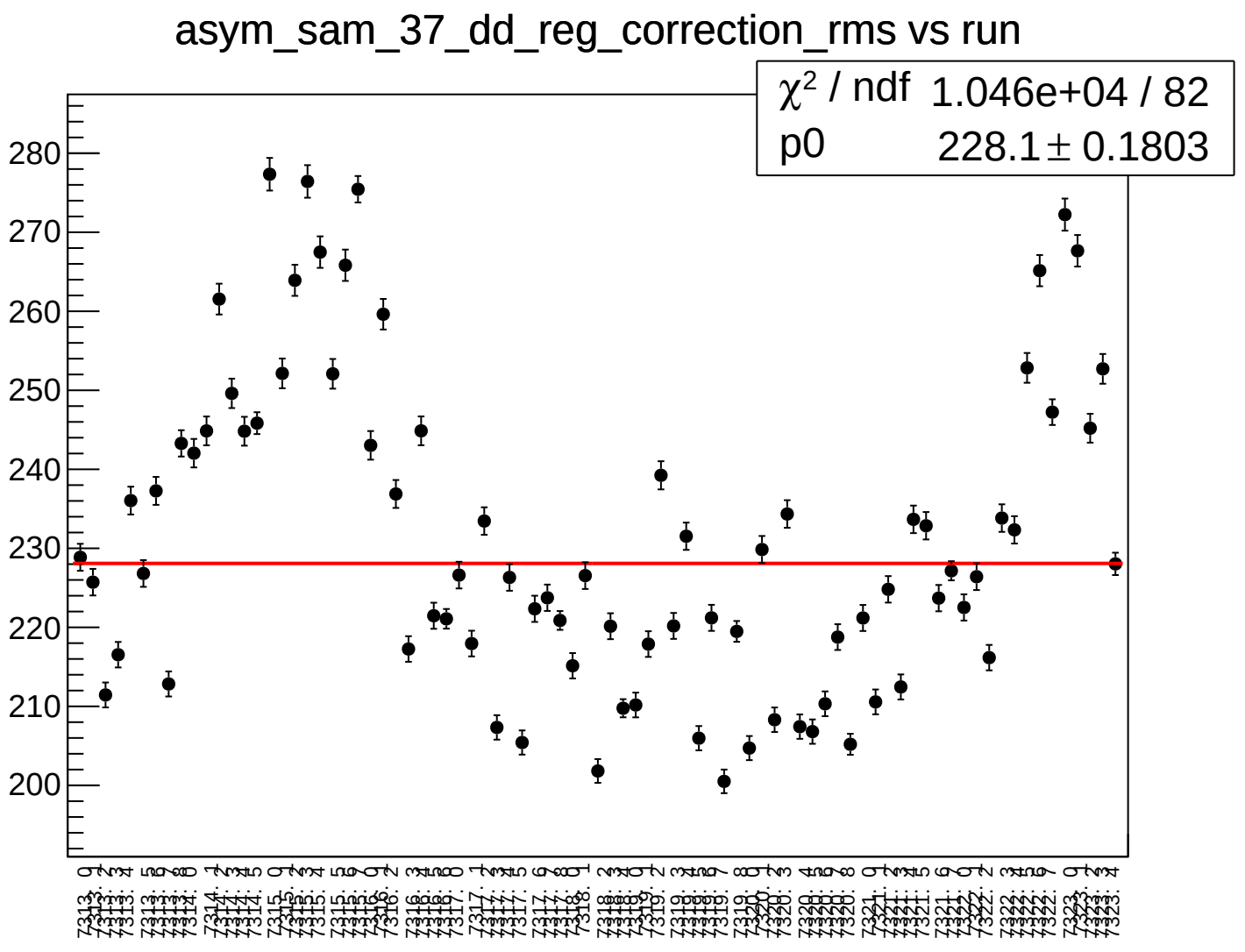

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.505e+05 / 82
p0 2.748e−11 ± 2.447e−14
0.12
0.1
0.08
0.06
0.04
0.02

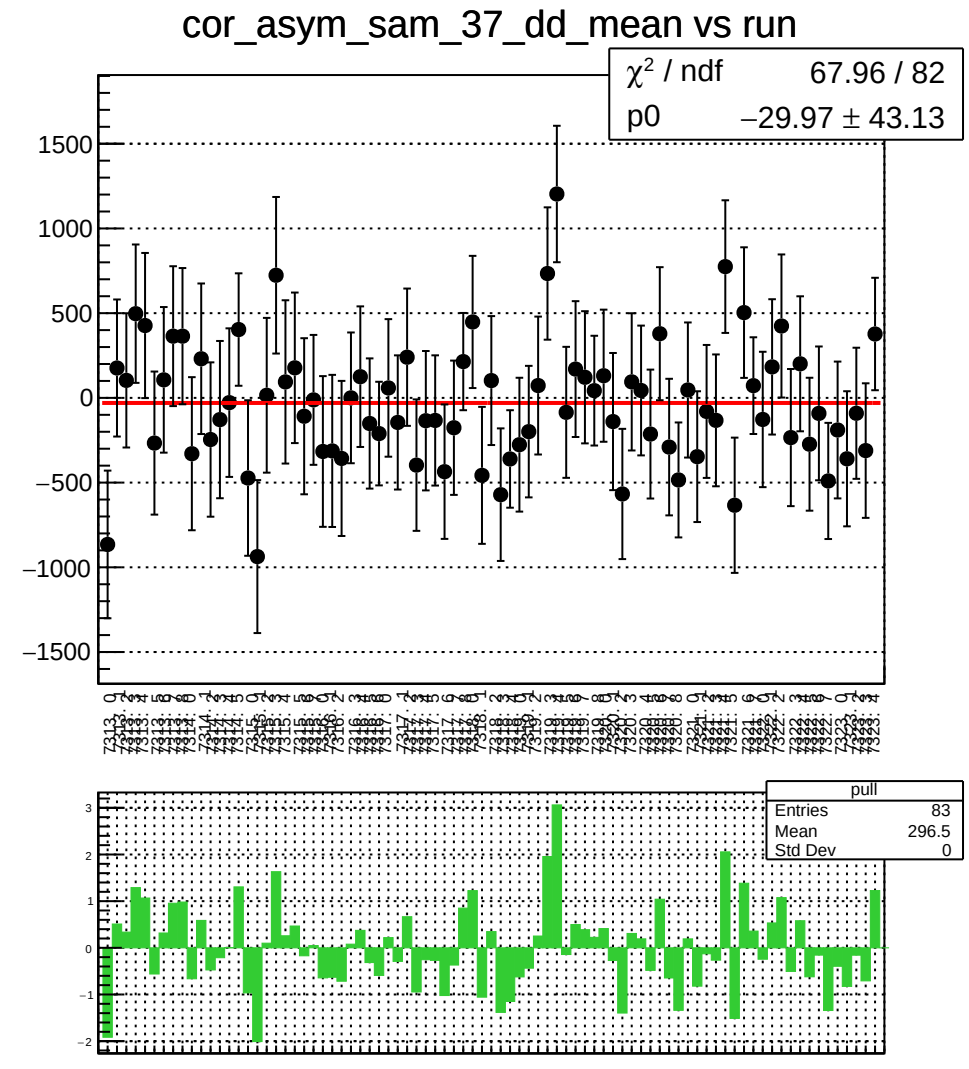

reg_asym_sam_37_dd_mean vs run
χ² / ndf 67.97 / 82
p0 −29.97 ± 43.13
pull
Entries 83
Mean 297
Std Dev 0

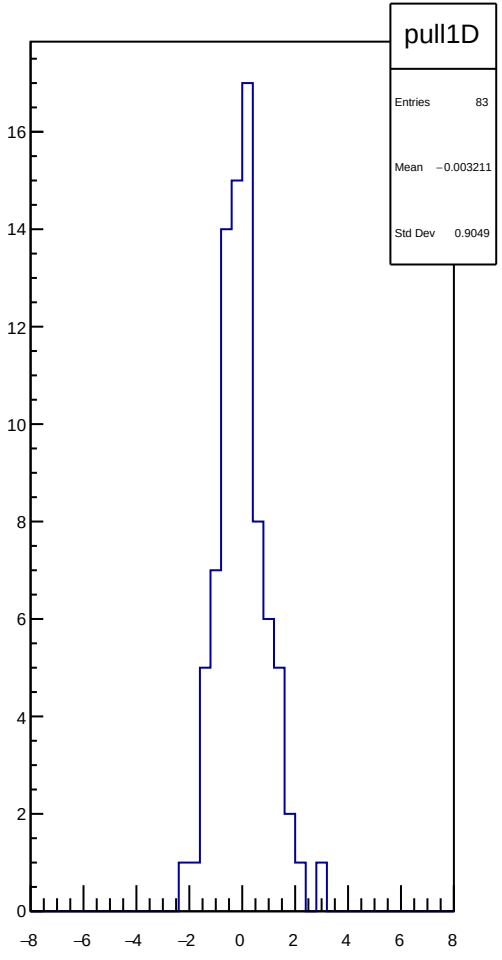

pull1D
Entries 83
Mean −0.003208
Std Dev 0.9049

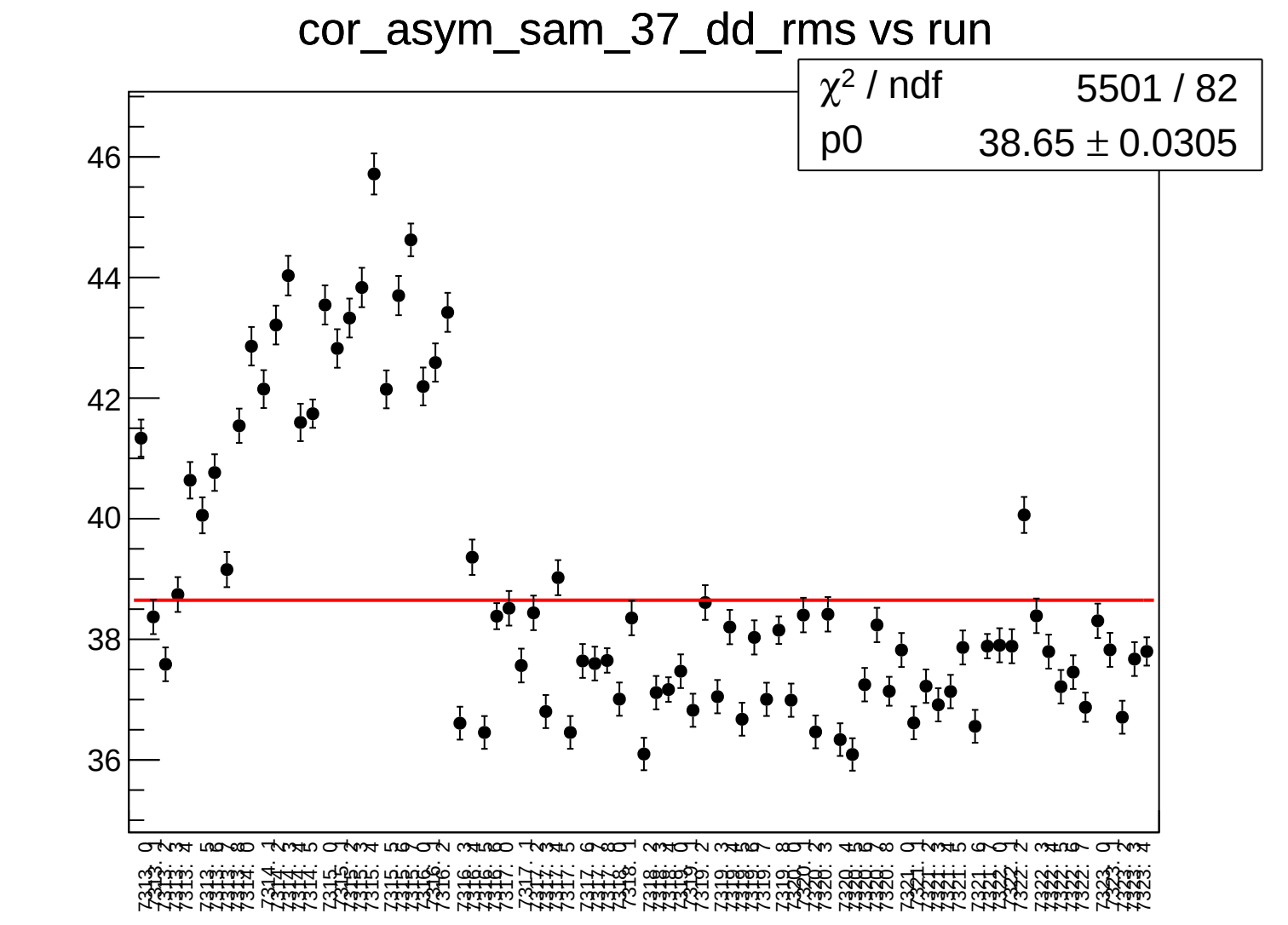

reg_asym_sam_37_dd_rms vs run
χ² / ndf 5501 / 82
p0 38.65 ± 0.0305
46
44
42
40
38
36

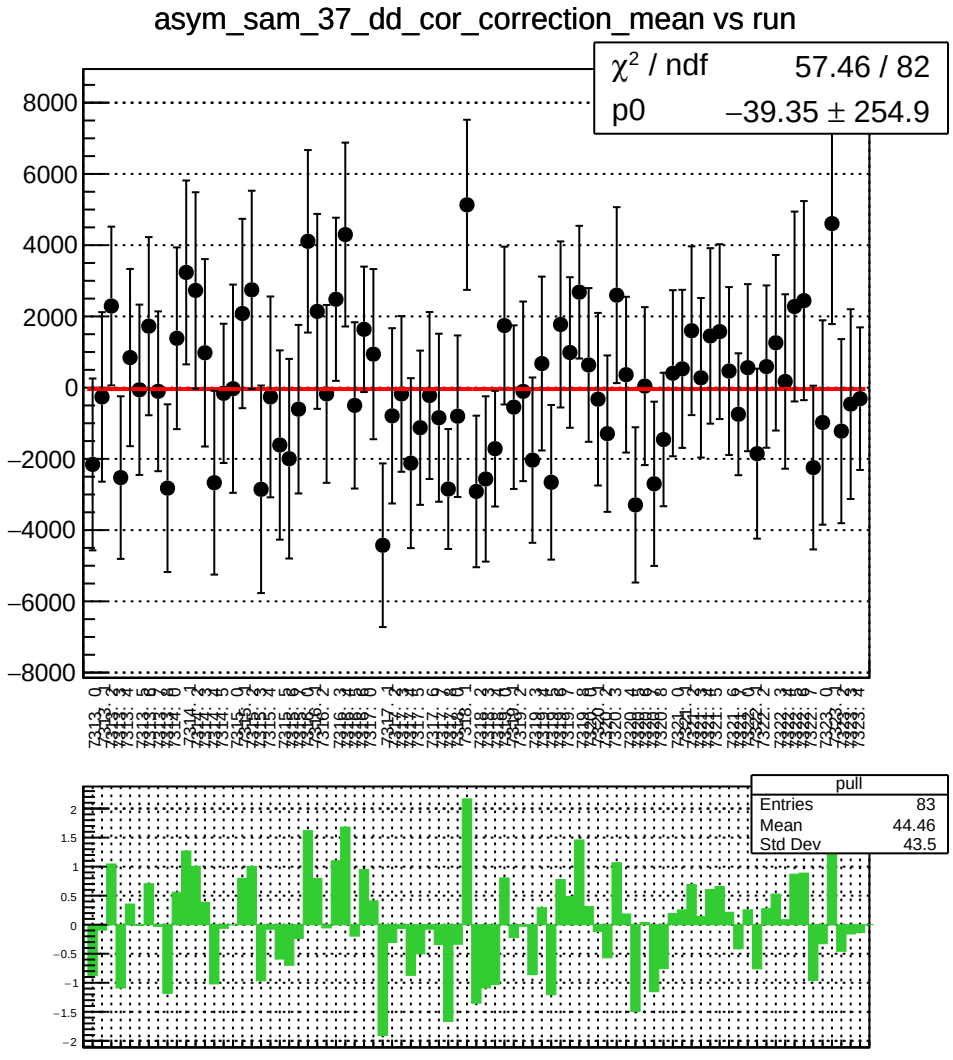

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 57.46 / 82
p0 −39.35 ± 254.9
pull
Entries 83
Mean 44.45
Std Dev 43.5
pull1D
Entries 83
Mean 0.02702
Std Dev 0.8316

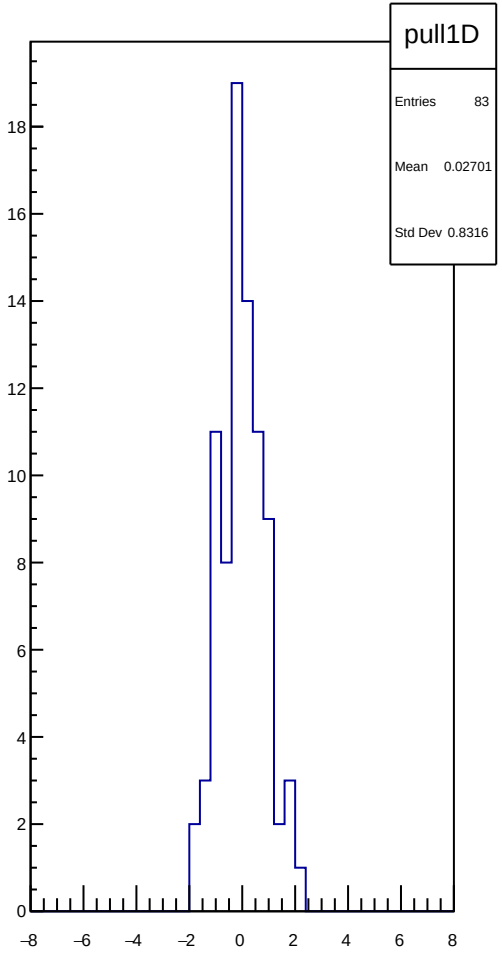

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.046e+04 / 82
p0 228.1 ± 0.1803
280
270
260
250
240
230
220
210
200

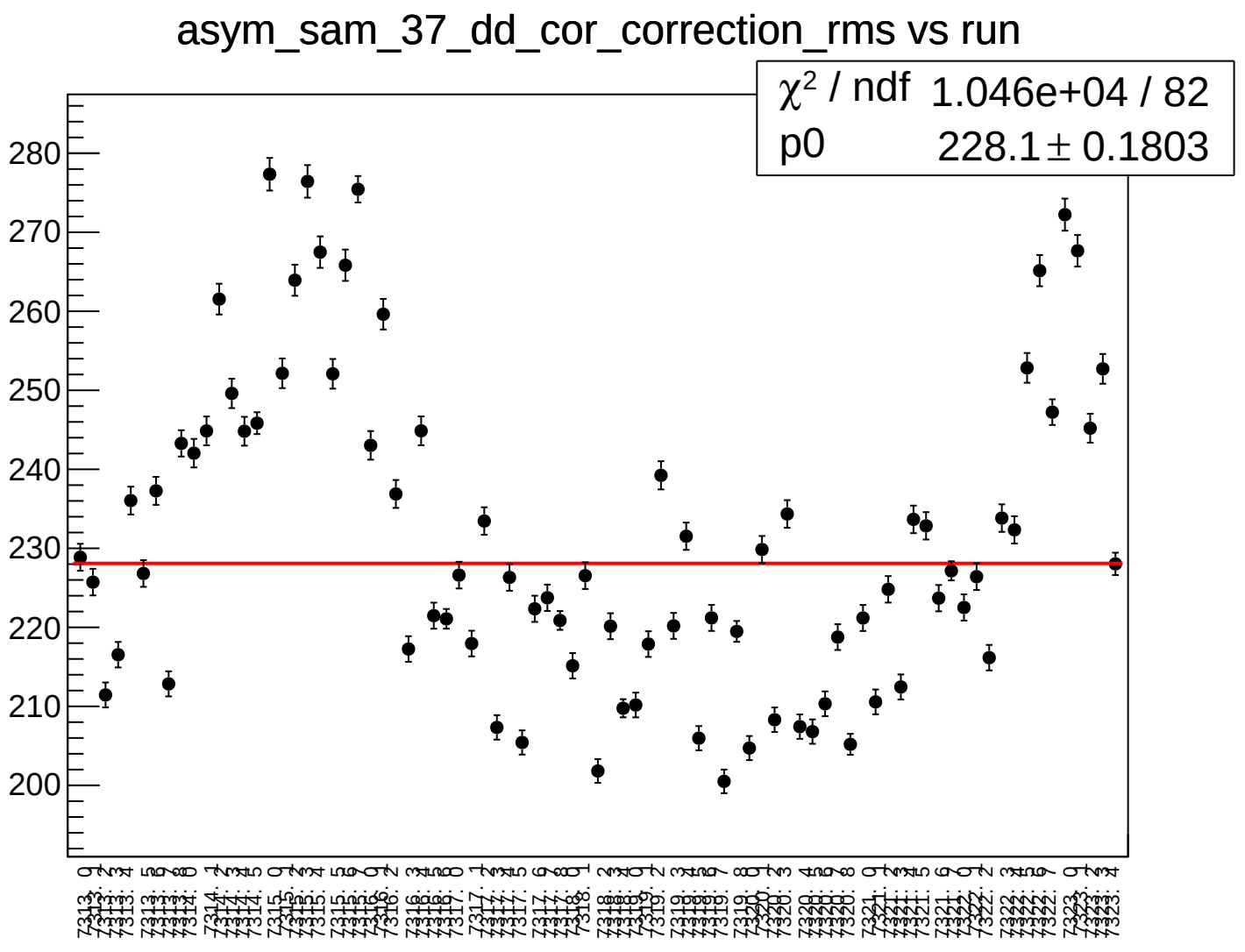

cor_asym_sam_37_dd_mean vs run
χ² / ndf 67.96 / 82
p0 −29.97 ± 43.13
1500
1000
500
0
−500
−1000
−1500
pull
Entries 83
Mean 296.5
Std Dev 0
3
2
1
0
−1
−2

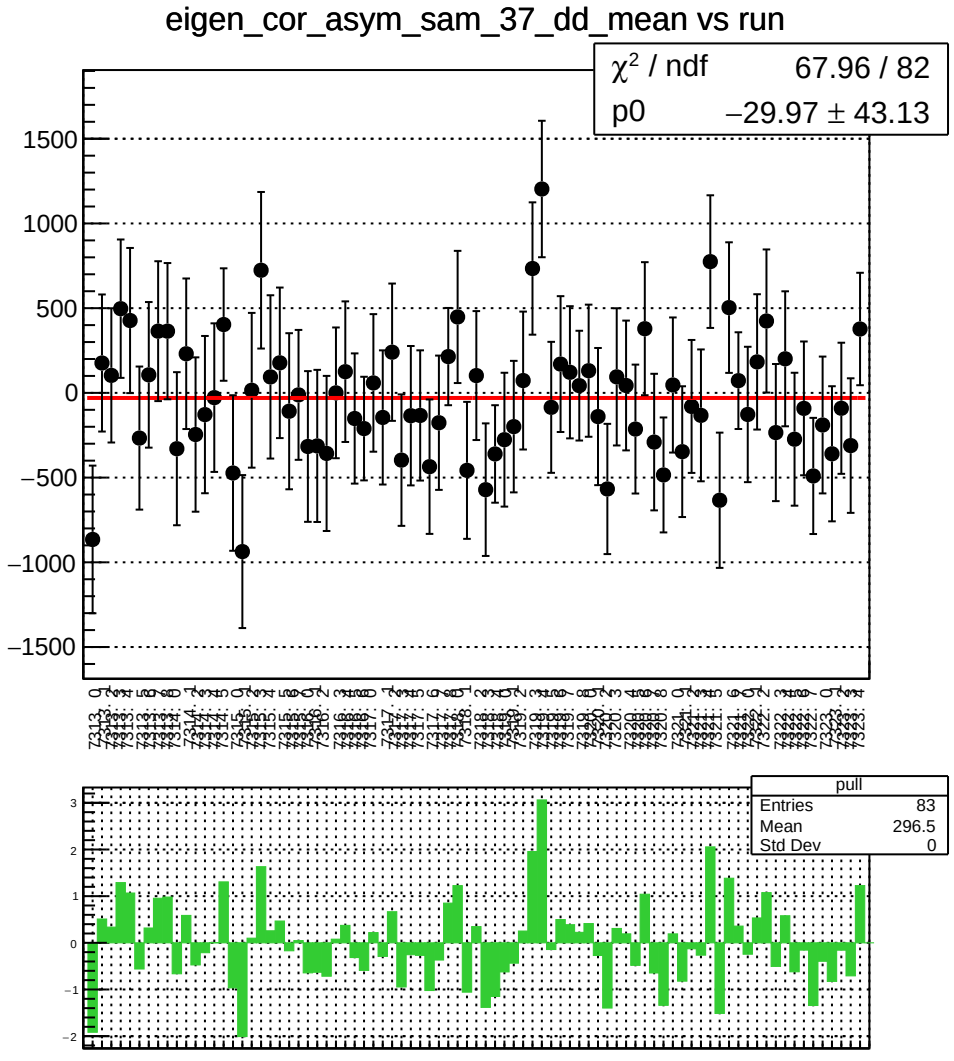

pull1D
Entries 83
Mean −0.003211
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

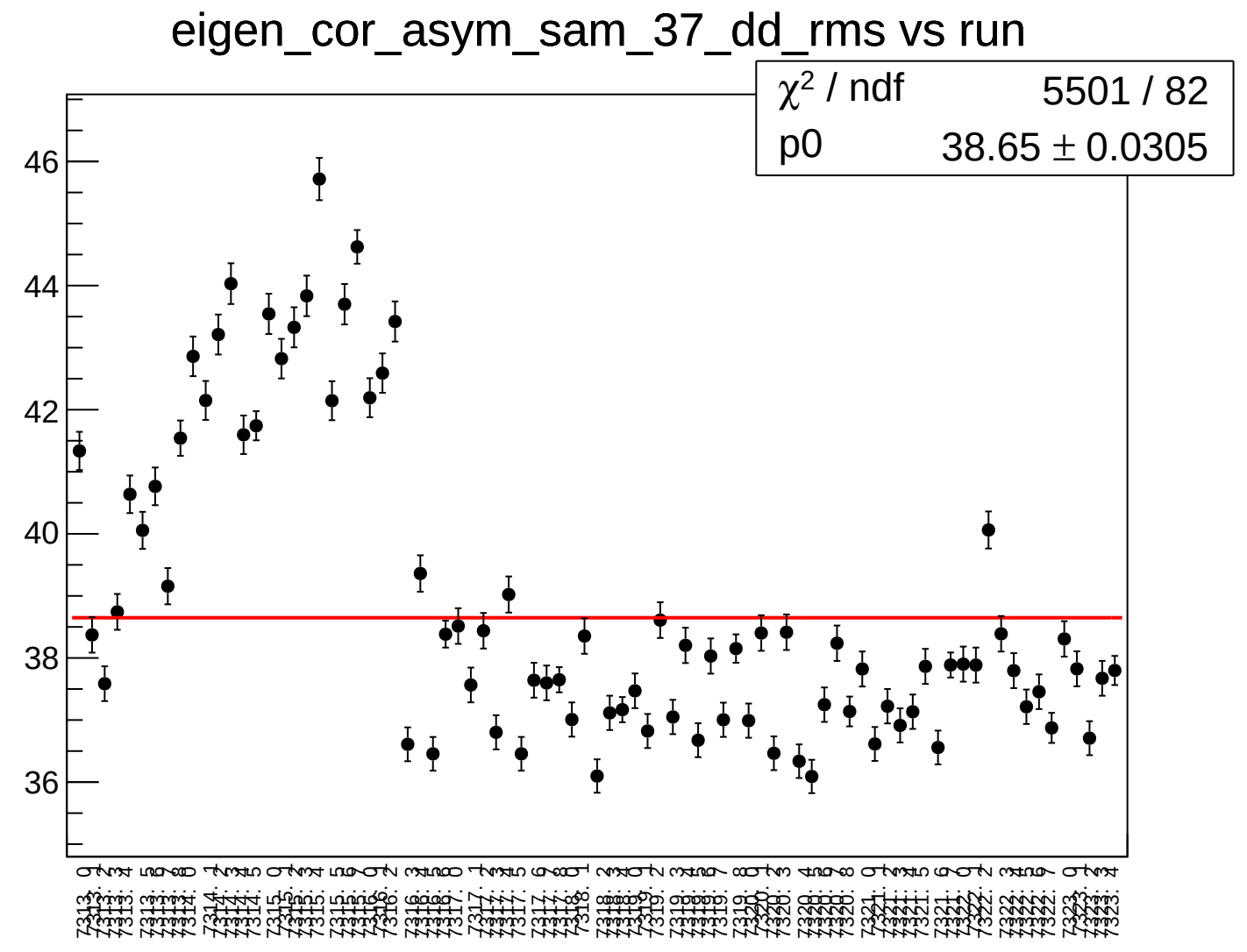

cor_asym_sam_37_dd_rms vs run
χ² / ndf 5501 / 82
p0 38.65 ± 0.0305
46
44
42
40
38
36

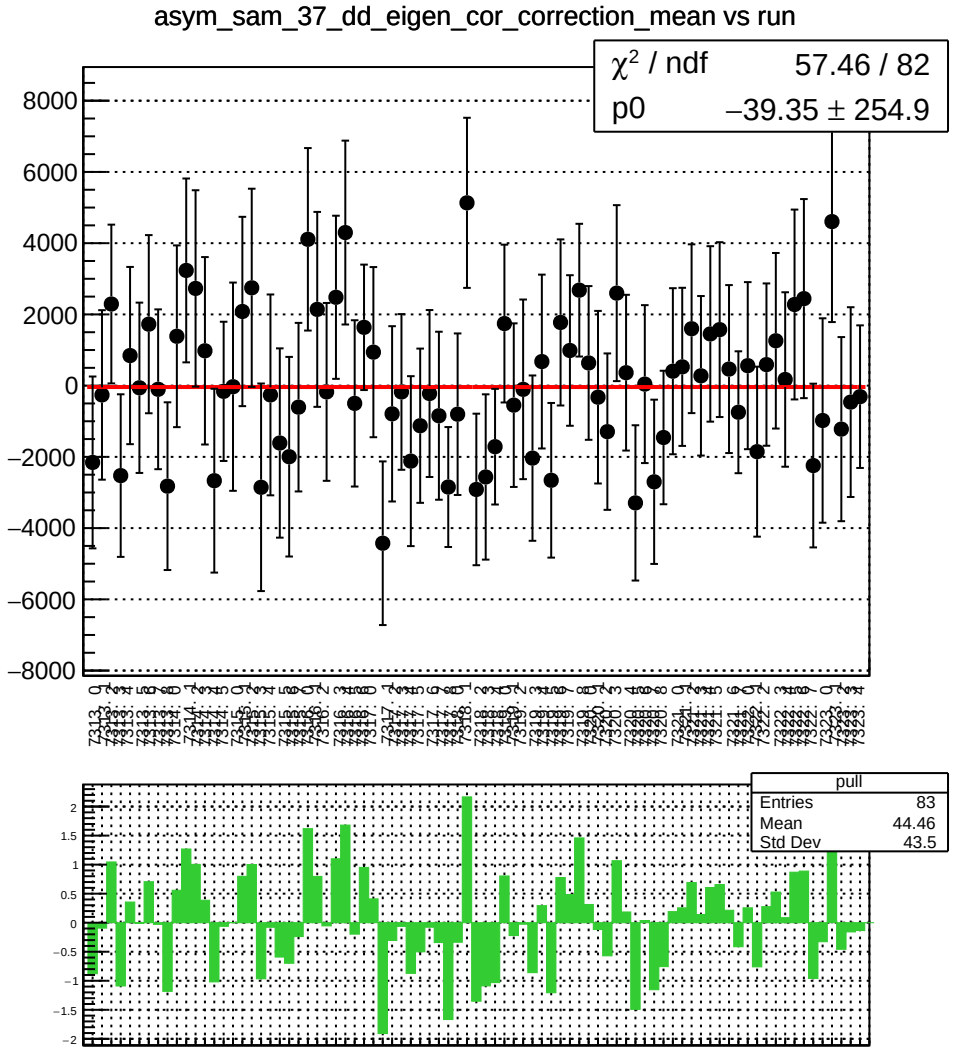

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 57.46 / 82
p0 −39.35 ± 254.9
pull
Entries 83
Mean 44.46
Std Dev 43.5

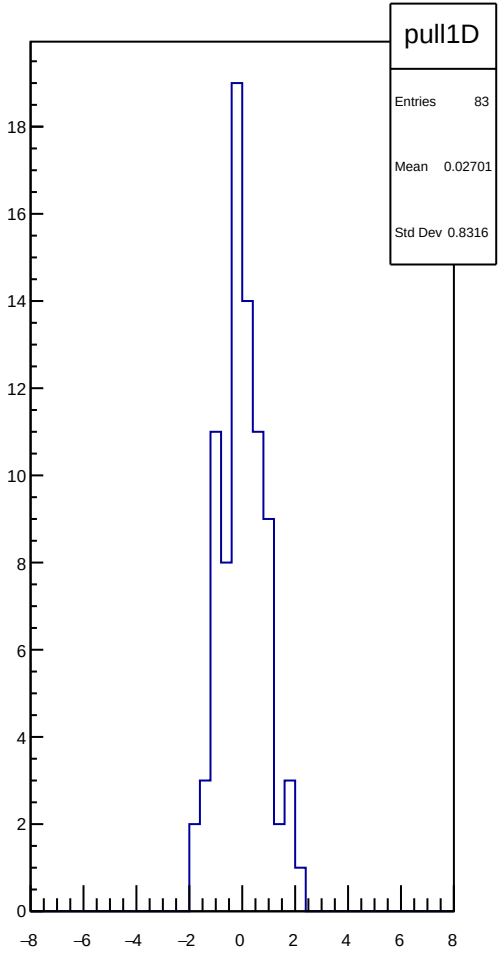

pull1D
Entries 83
Mean 0.02701
Std Dev 0.8316

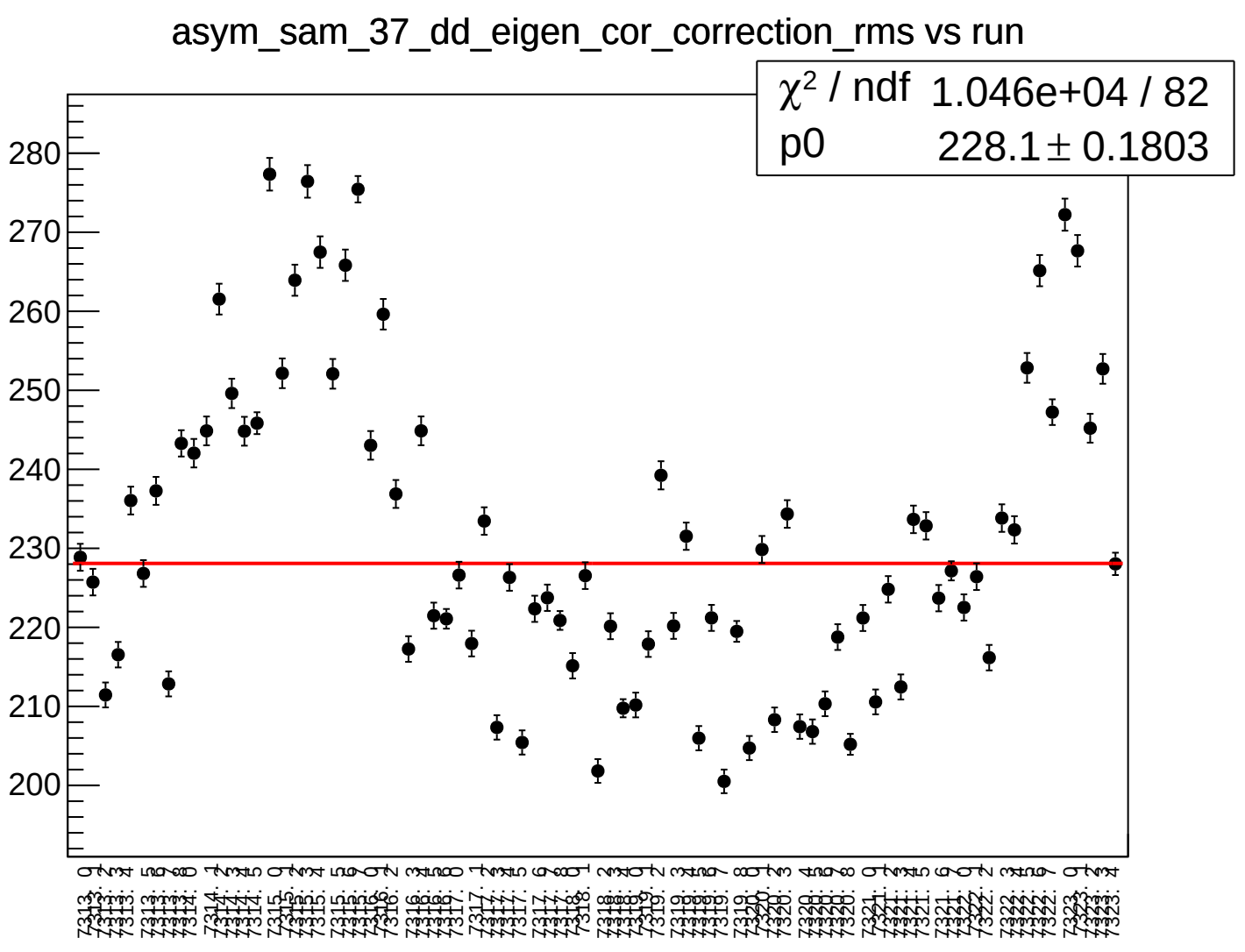

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.046e+04 / 82
p0 228.1 ± 0.1803
280
270
260
250
240
230
220
210
200

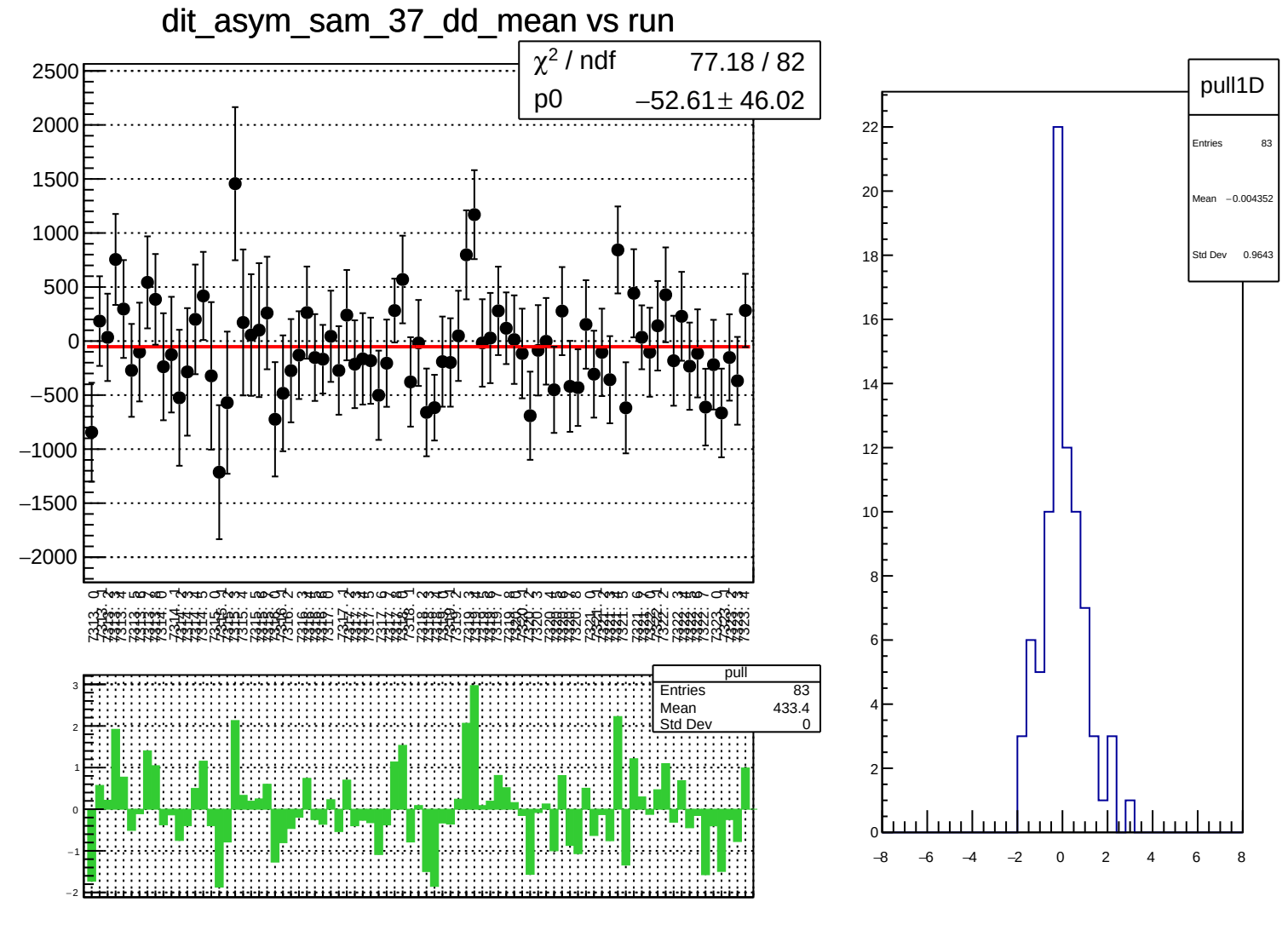

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 67.96 / 82
p0 −29.97 ± 43.13
1500
1000
500
0
−500
−1000
−1500
pull
Entries 83
Mean 296.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.003211
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

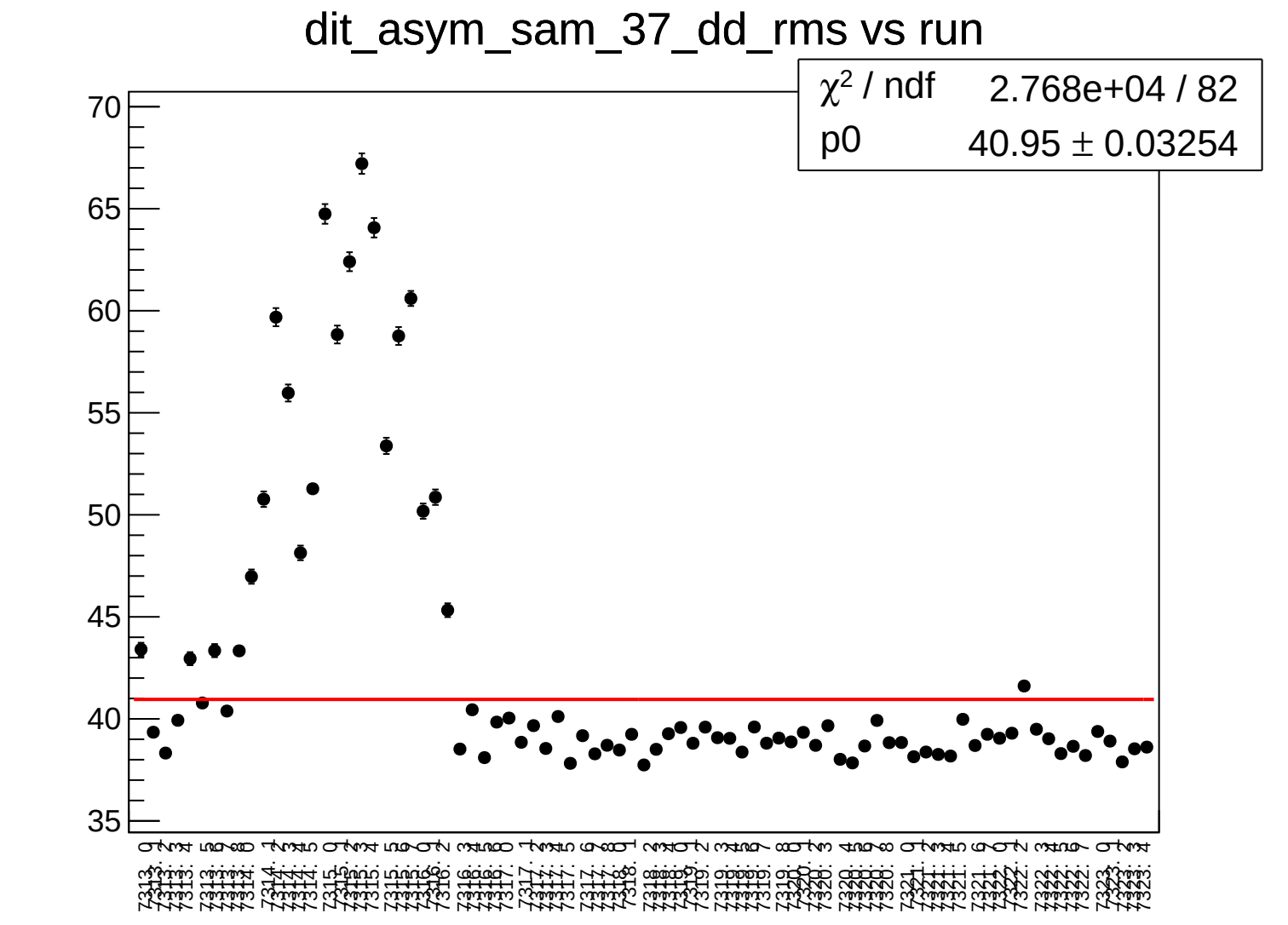

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 5501 / 82
p0 38.65 ± 0.0305
46
44
42
40
38
36

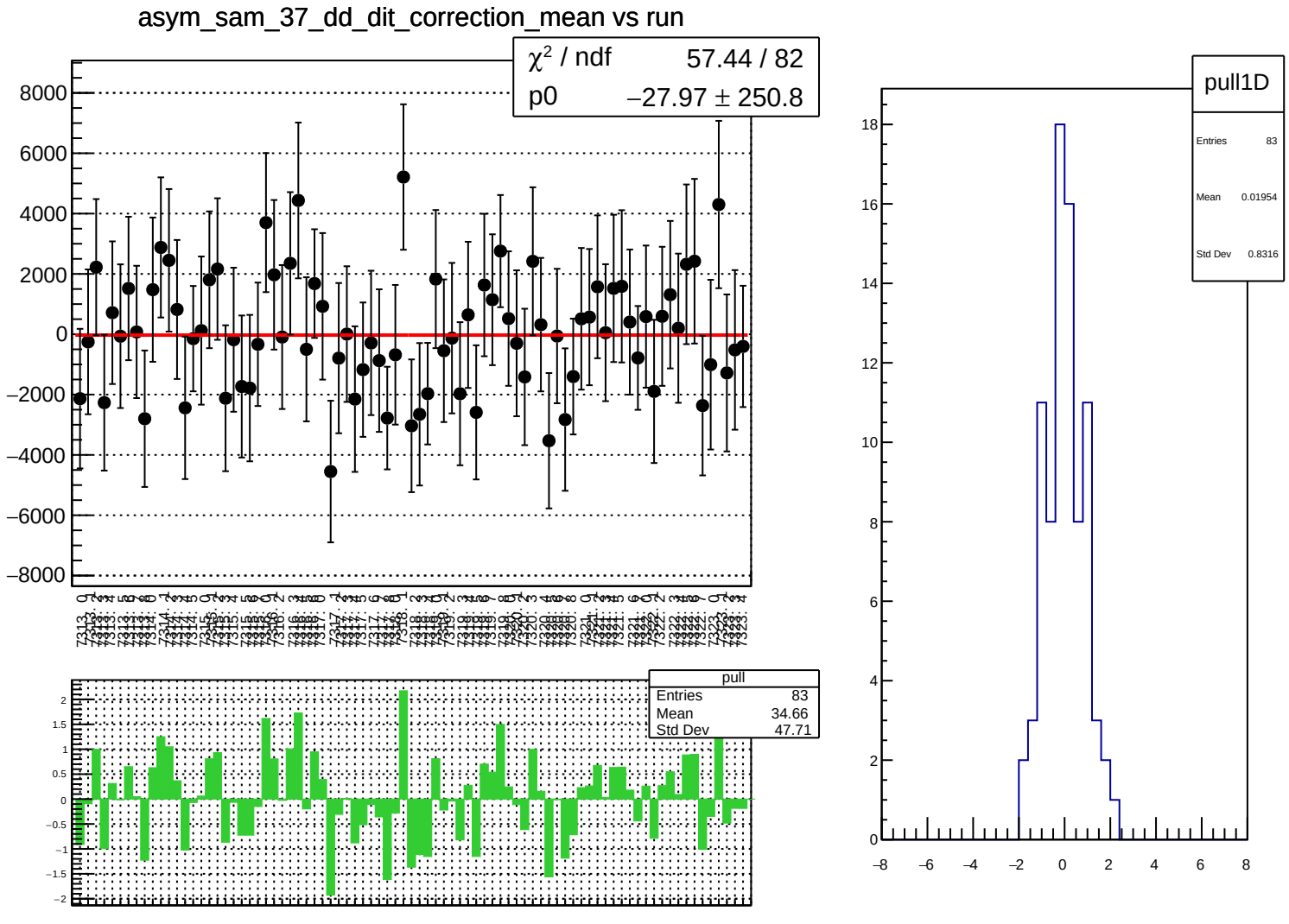

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 57.46 / 82
p0 −39.35 ± 254.9
pull
Entries 83
Mean 44.46
Std Dev 43.5

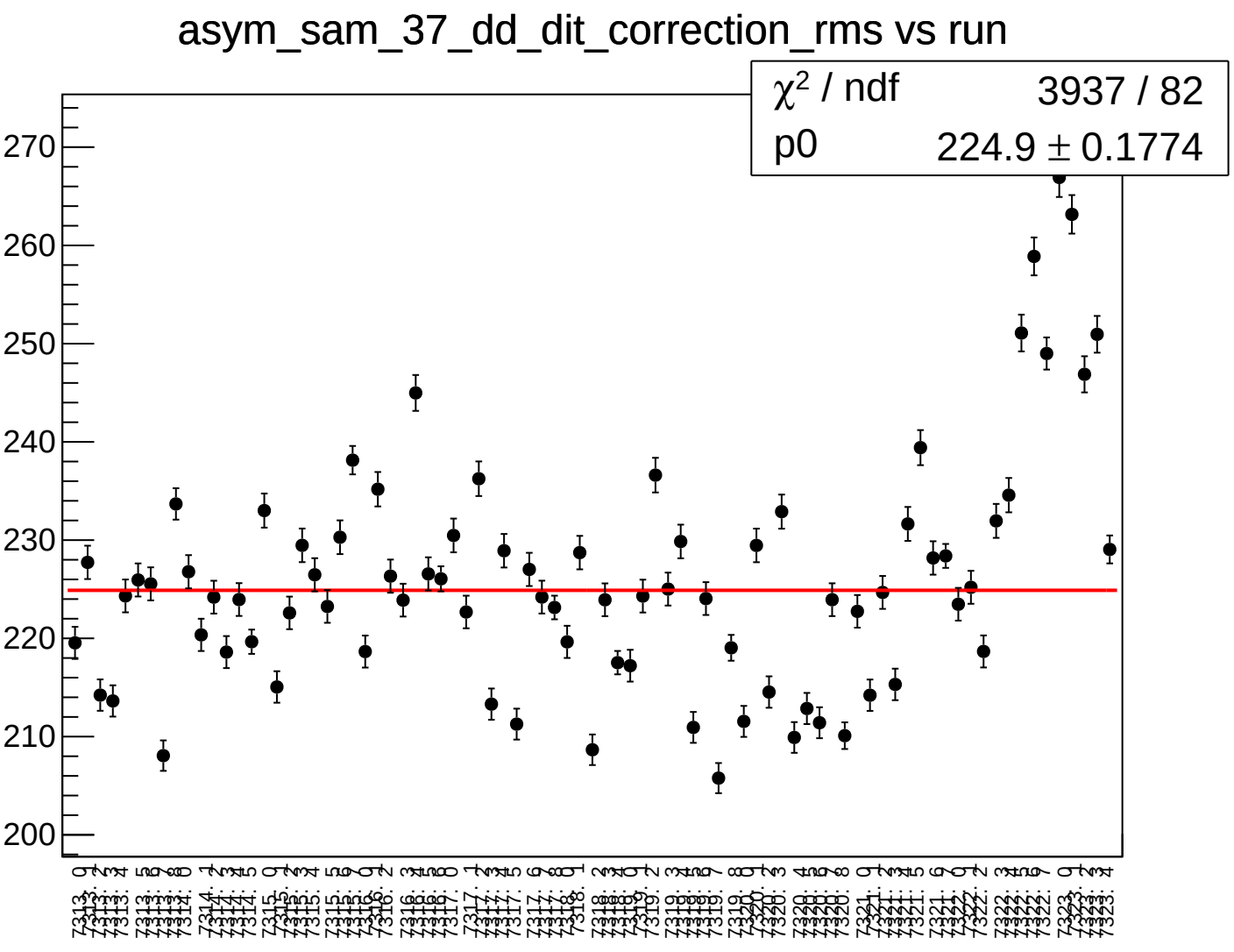

pull1D
Entries 83
Mean 0.02701
Std Dev 0.8316

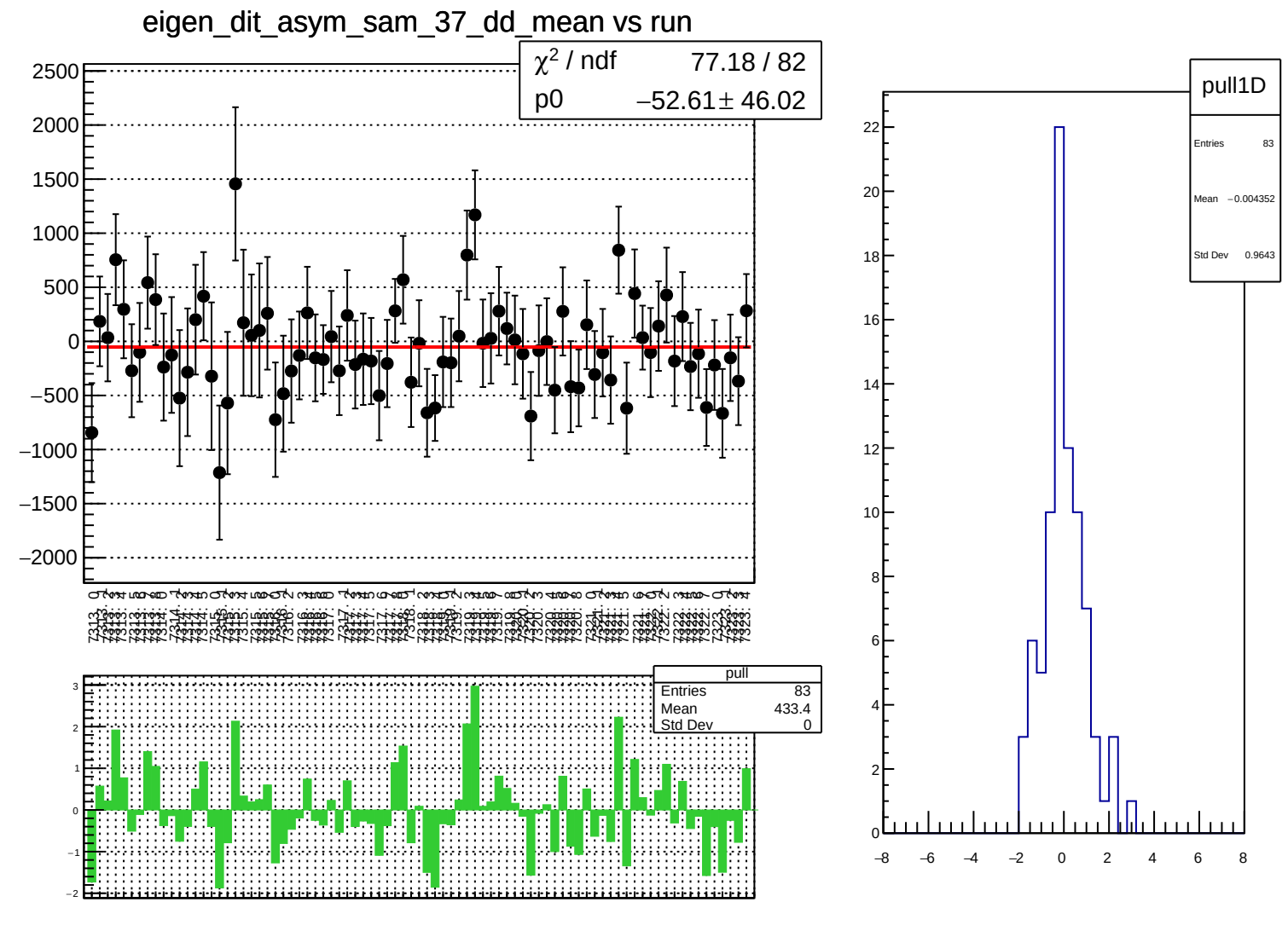

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.046e+04 / 82
p0 228.1 ± 0.1803
280
270
260
250
240
230
220
210
200

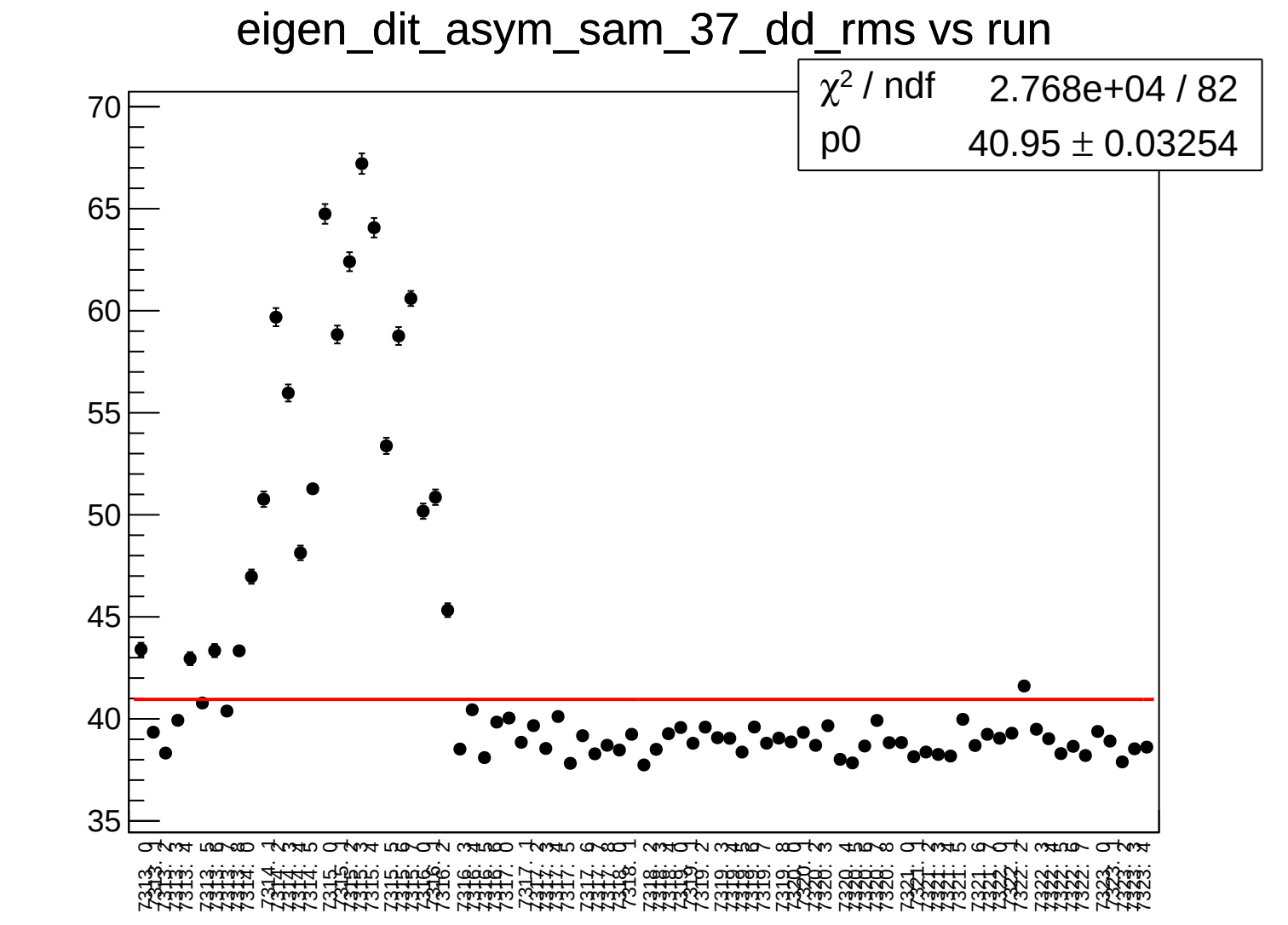

dit_asym_sam_37_dd_mean vs run
χ² / ndf 77.18 / 82
p0 −52.61 ± 46.02
pull
Entries 83
Mean 433.4
Std Dev 0
pull1D
Entries 83
Mean −0.004352
Std Dev 0.9643

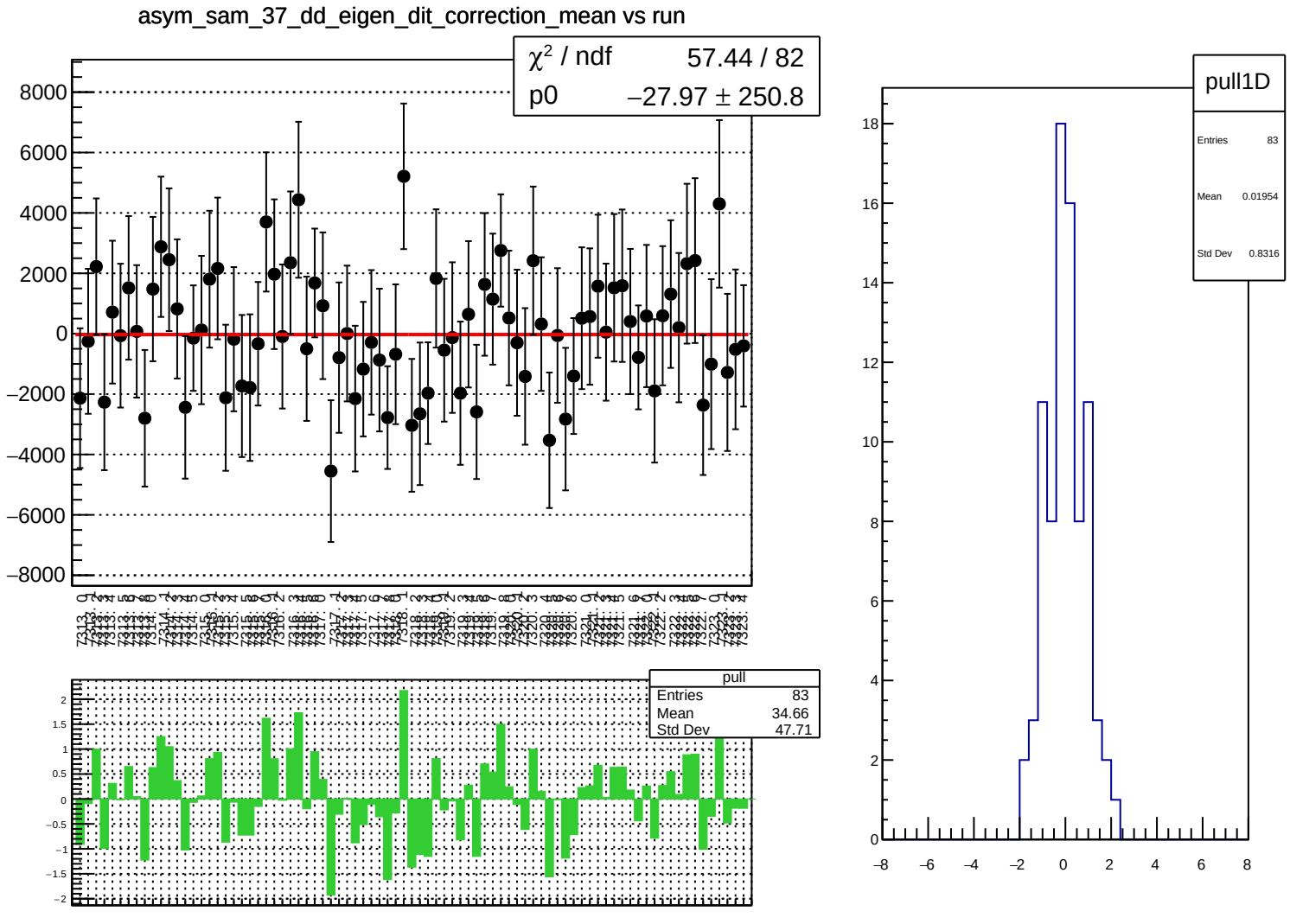

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.768e+04 / 82
p0 40.95 ± 0.03254
70
65
60
55
50
45
40
35

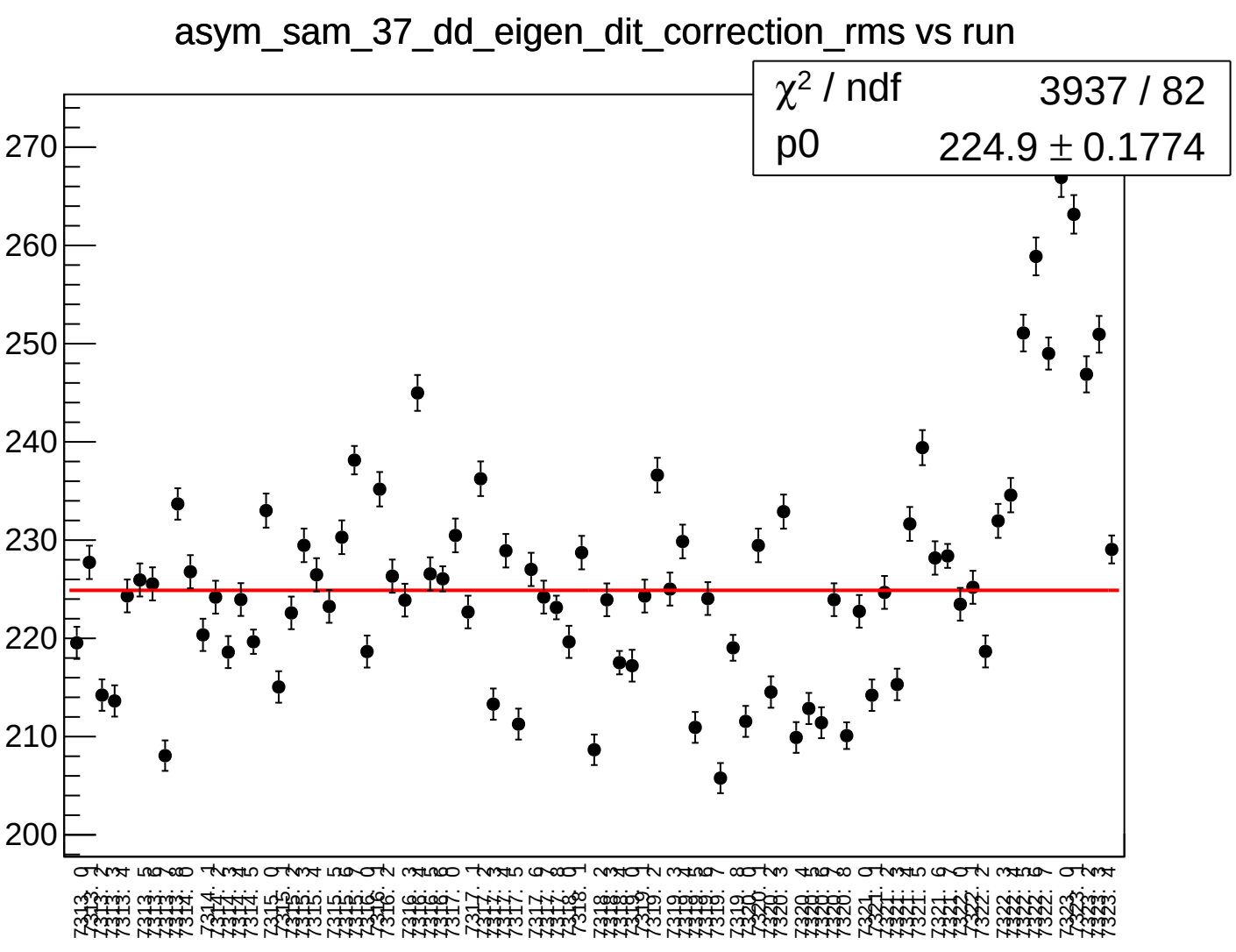

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 57.44 / 82
p0 −27.97 ± 250.8
pull
Entries 83
Mean 34.66
Std Dev 47.71
pull1D
Entries 83
Mean 0.01954
Std Dev 0.8316

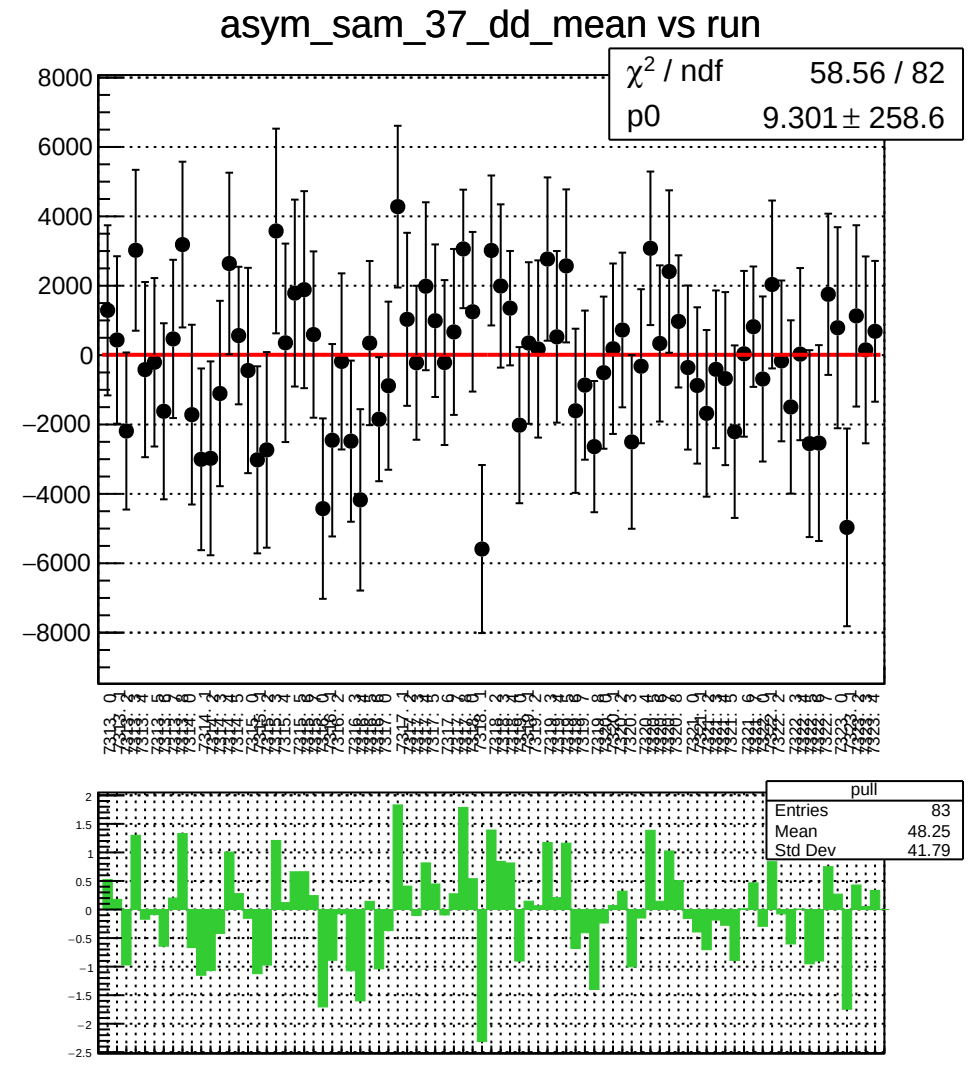

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3937 / 82
p0 224.9 ± 0.1774
270
260
250
240
230
220
210
200

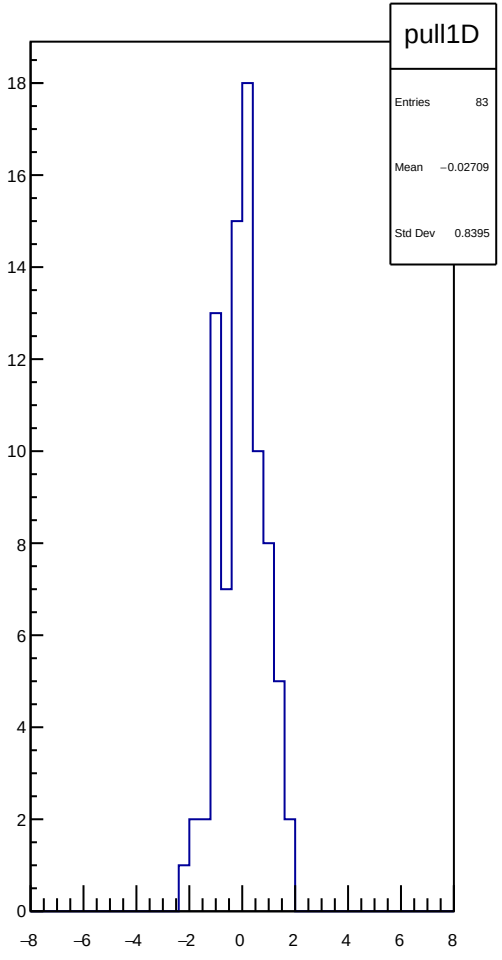

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 77.18 / 82
p0 −52.61 ± 46.02
pull
Entries 83
Mean 433.4
Std Dev 0
pull1D
Entries 83
Mean −0.004352
Std Dev 0.9643

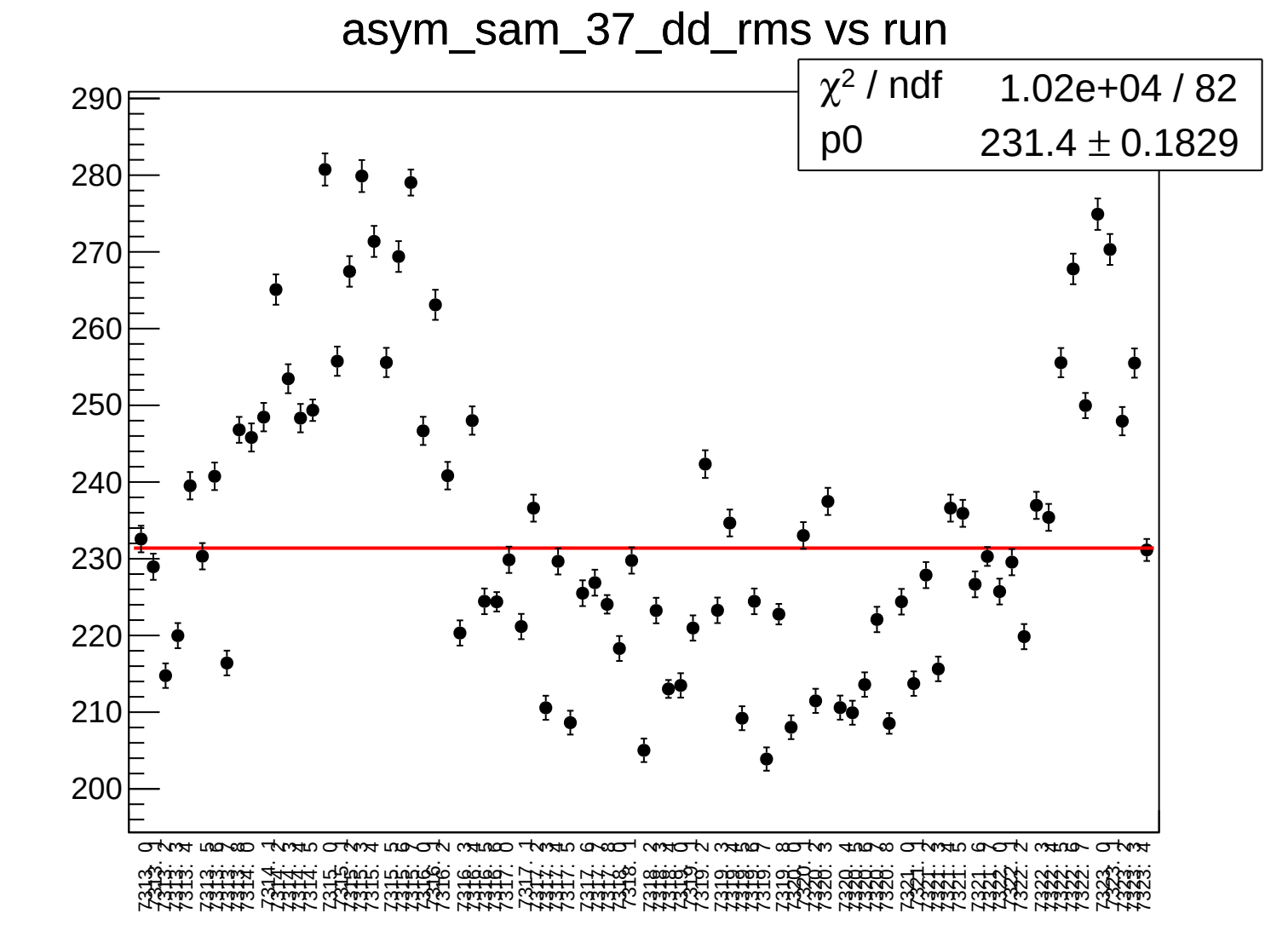

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.768e+04 / 82
p0 40.95 ± 0.03254
70
65
60
55
50
45
40
35

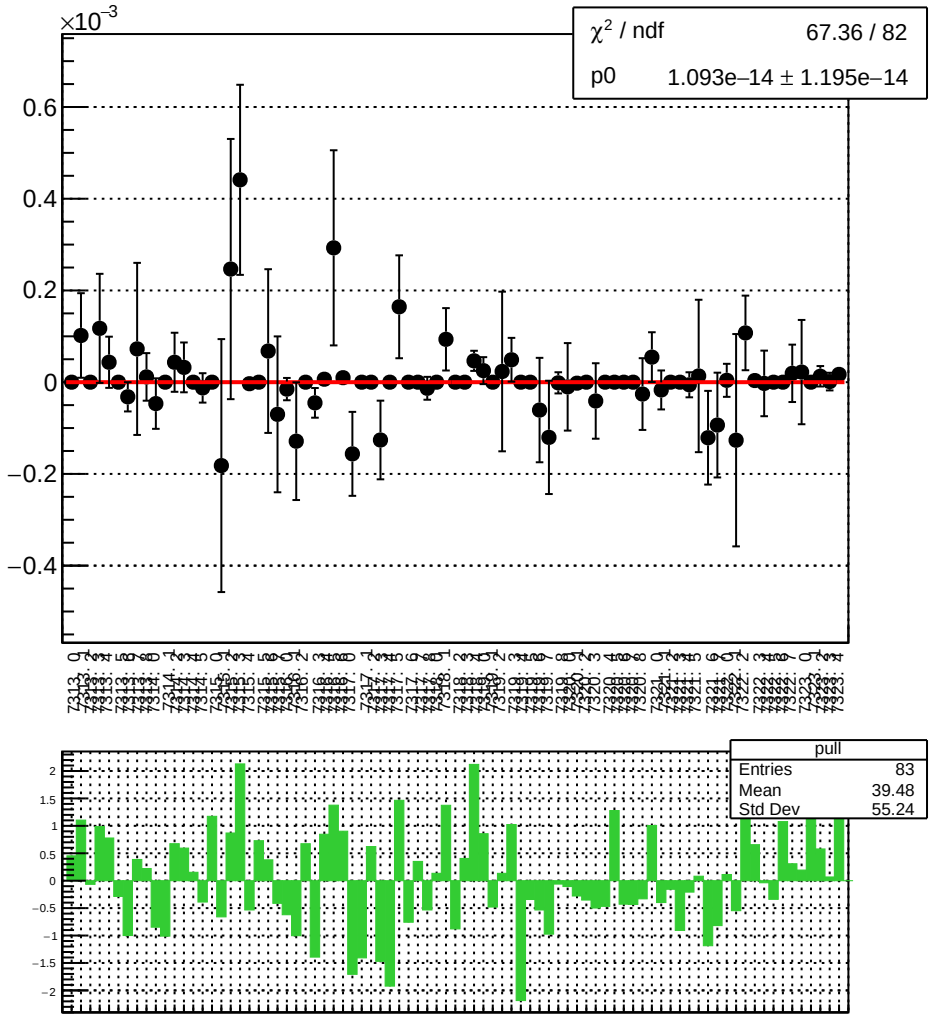

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 57.44 / 82
p0 −27.97 ± 250.8
pull
Entries 83
Mean 34.66
Std Dev 47.71
pull1D
Entries 83
Mean 0.01954
Std Dev 0.8316

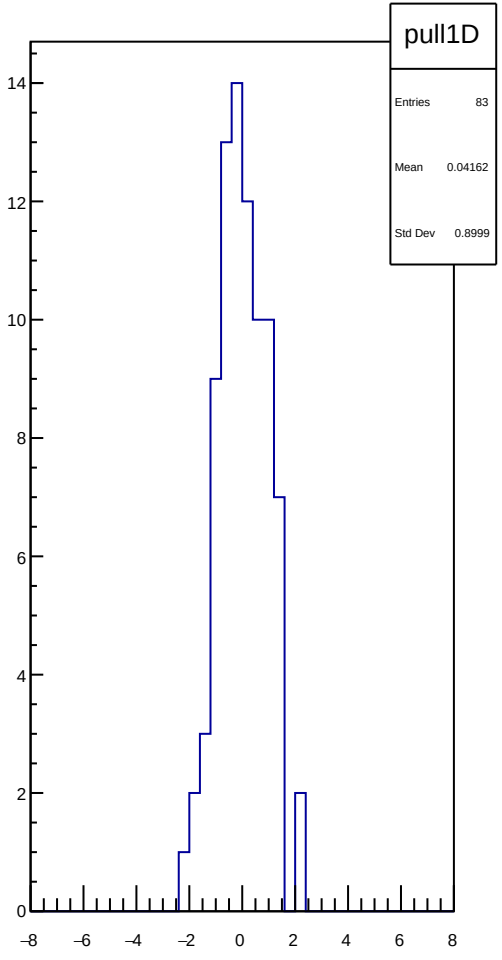

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3937 / 82
p0 224.9 ± 0.1774
270
260
250
240
230
220
210
200

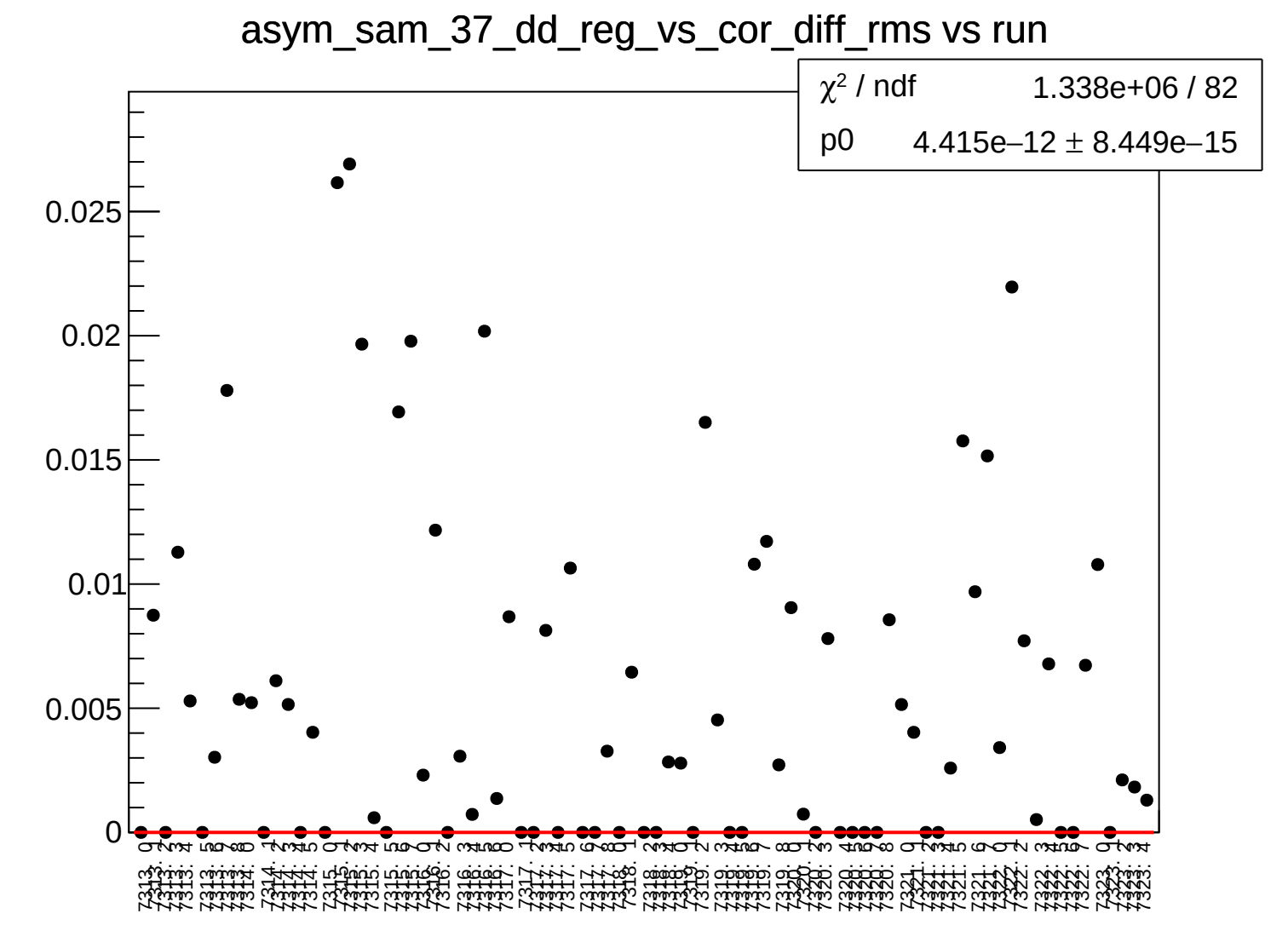

asym_sam_37_dd_mean vs run
χ² / ndf 58.56 / 82
p0 9.301 ± 258.6
pull
Entries 83
Mean 48.25
Std Dev 41.79

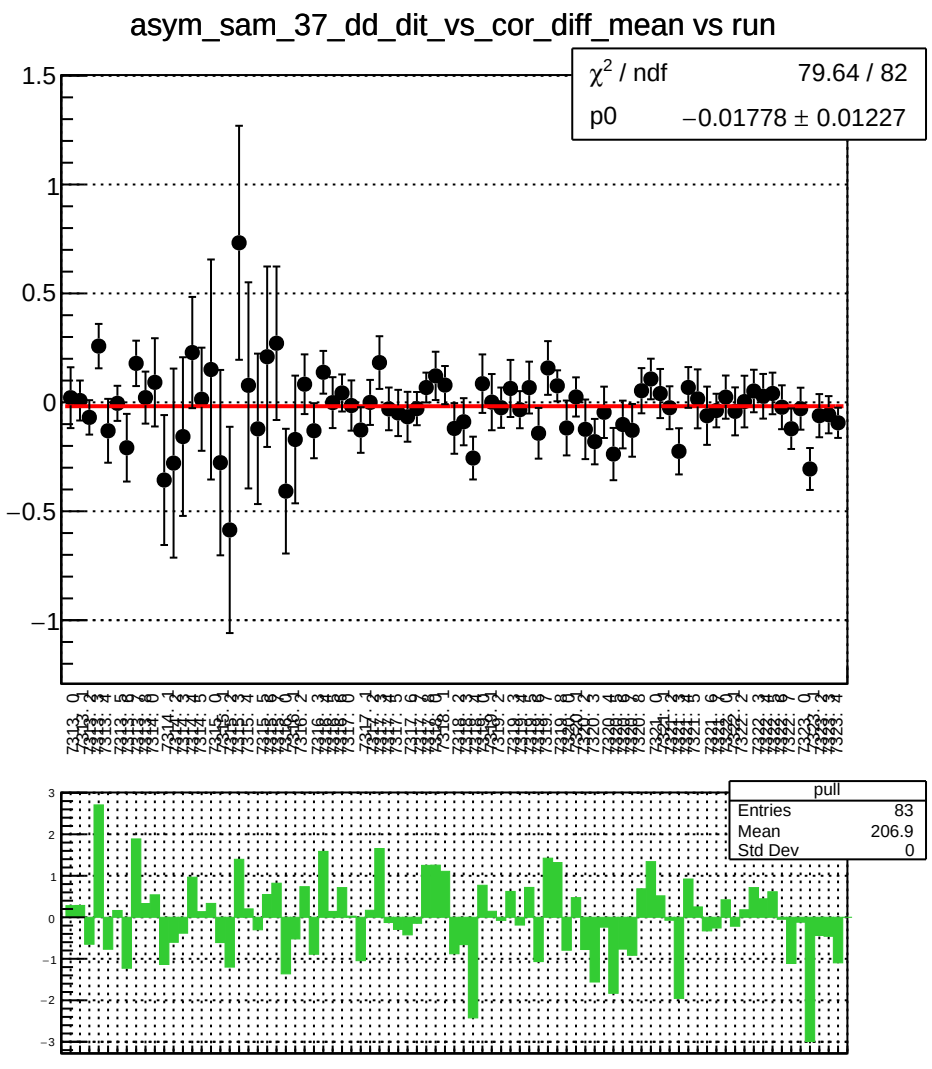

pull1D
Entries 83
Mean −0.02709
Std Dev 0.8395

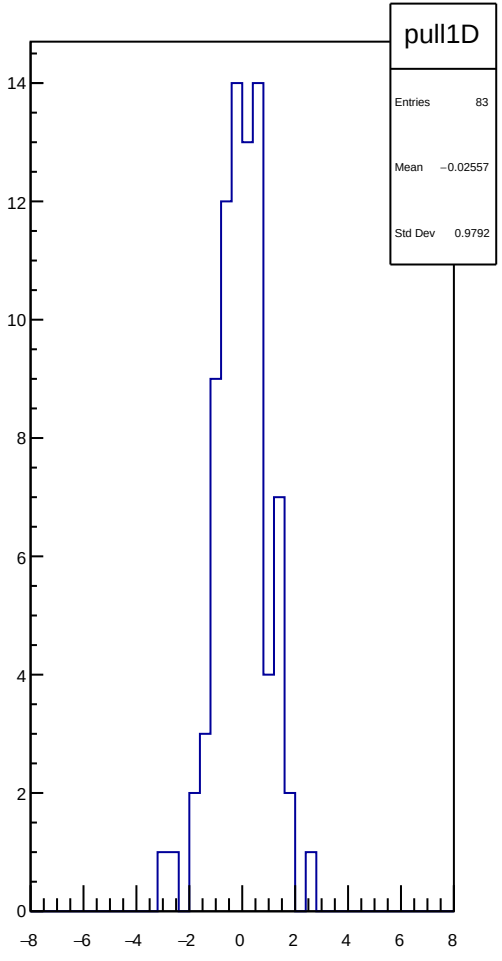

asym_sam_37_dd_rms vs run
χ² / ndf 1.02e+04 / 82
p0 231.4 ± 0.1829
290
280
270
260
250
240
230
220
210
200

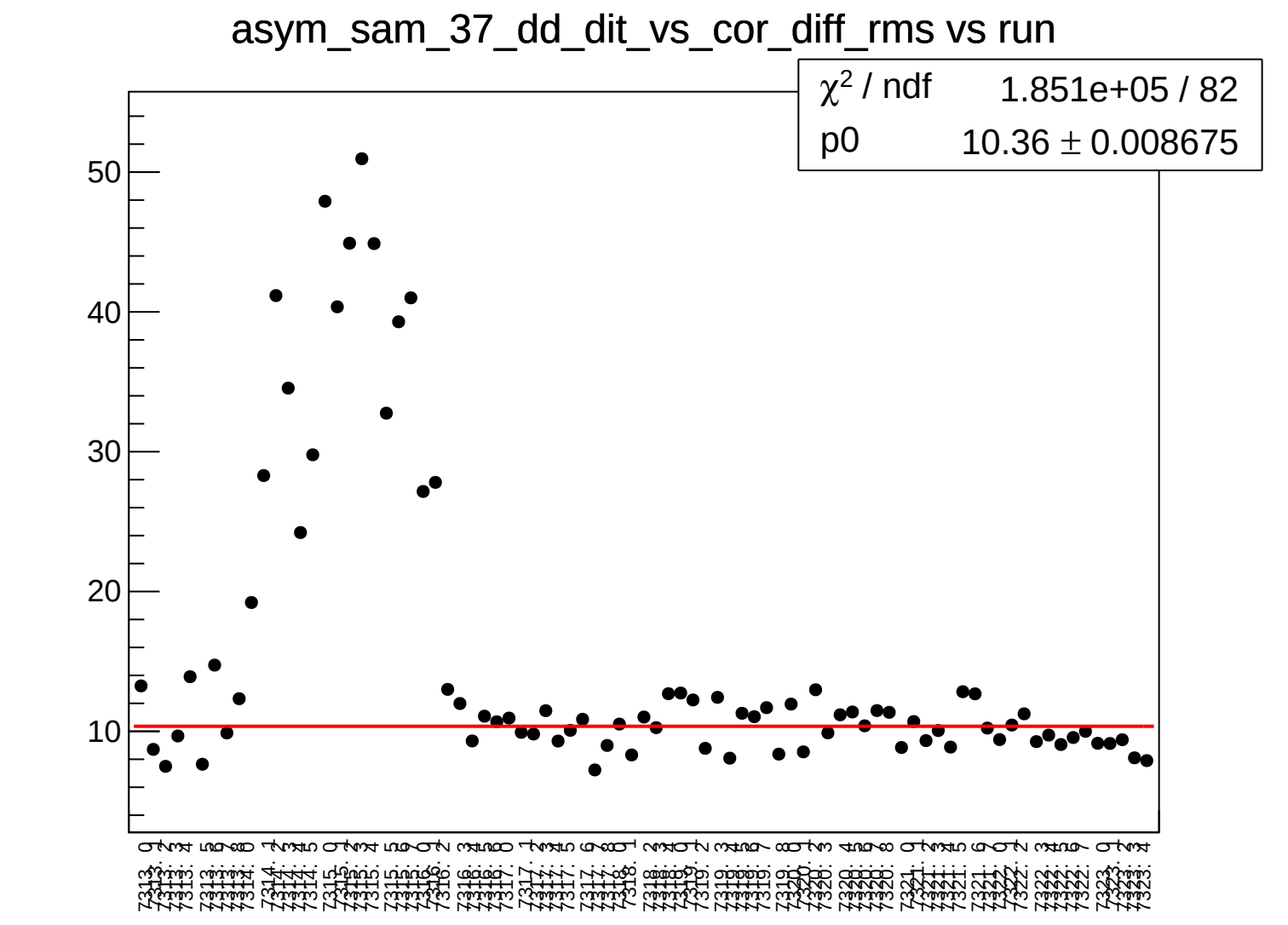

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 67.36 / 82
p0 1.093e−14 ± 1.195e−14
pull
Entries 83
Mean 39.48
Std Dev 55.24

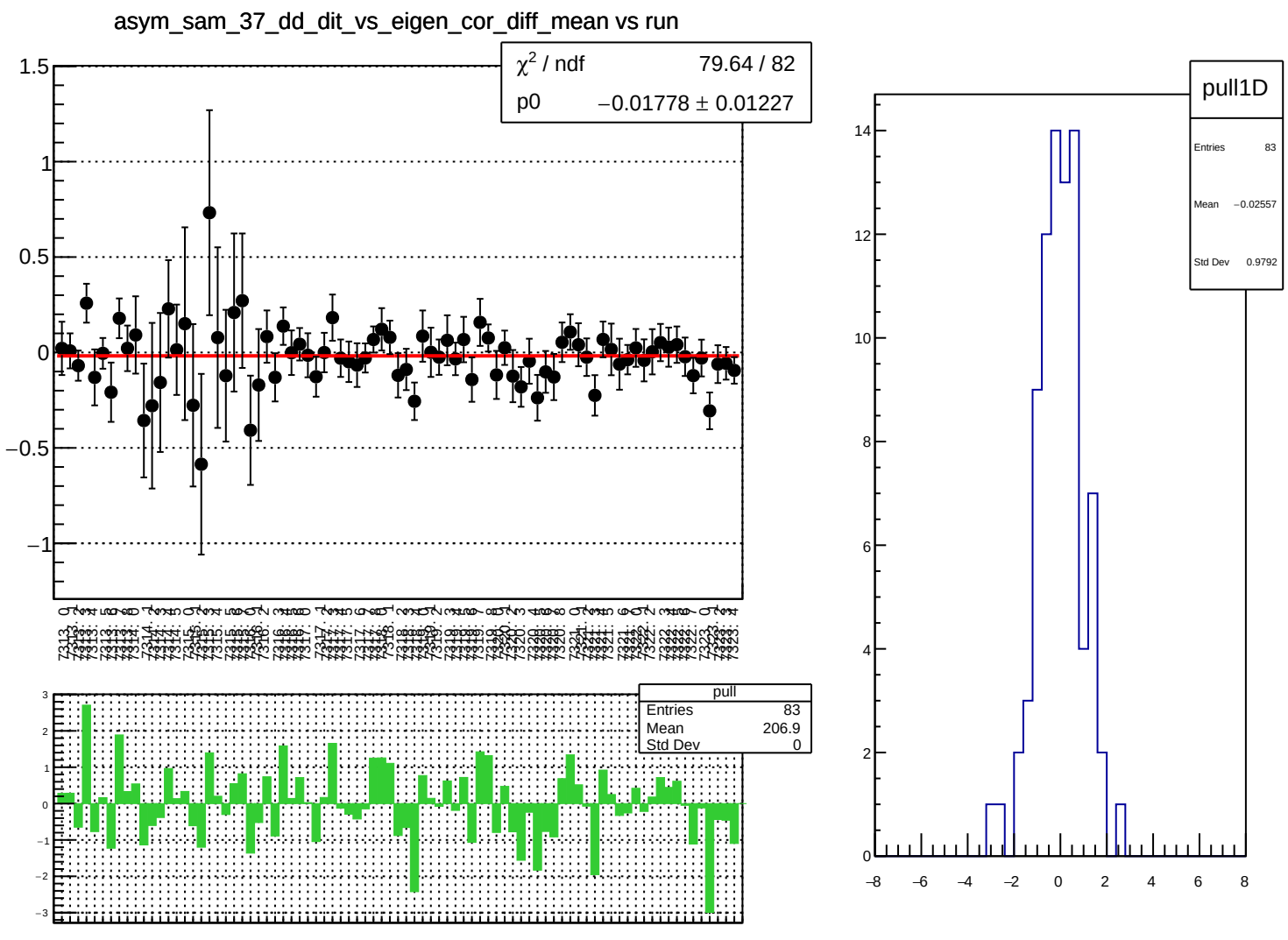

pull1D
Entries 83
Mean 0.04162
Std Dev 0.8999

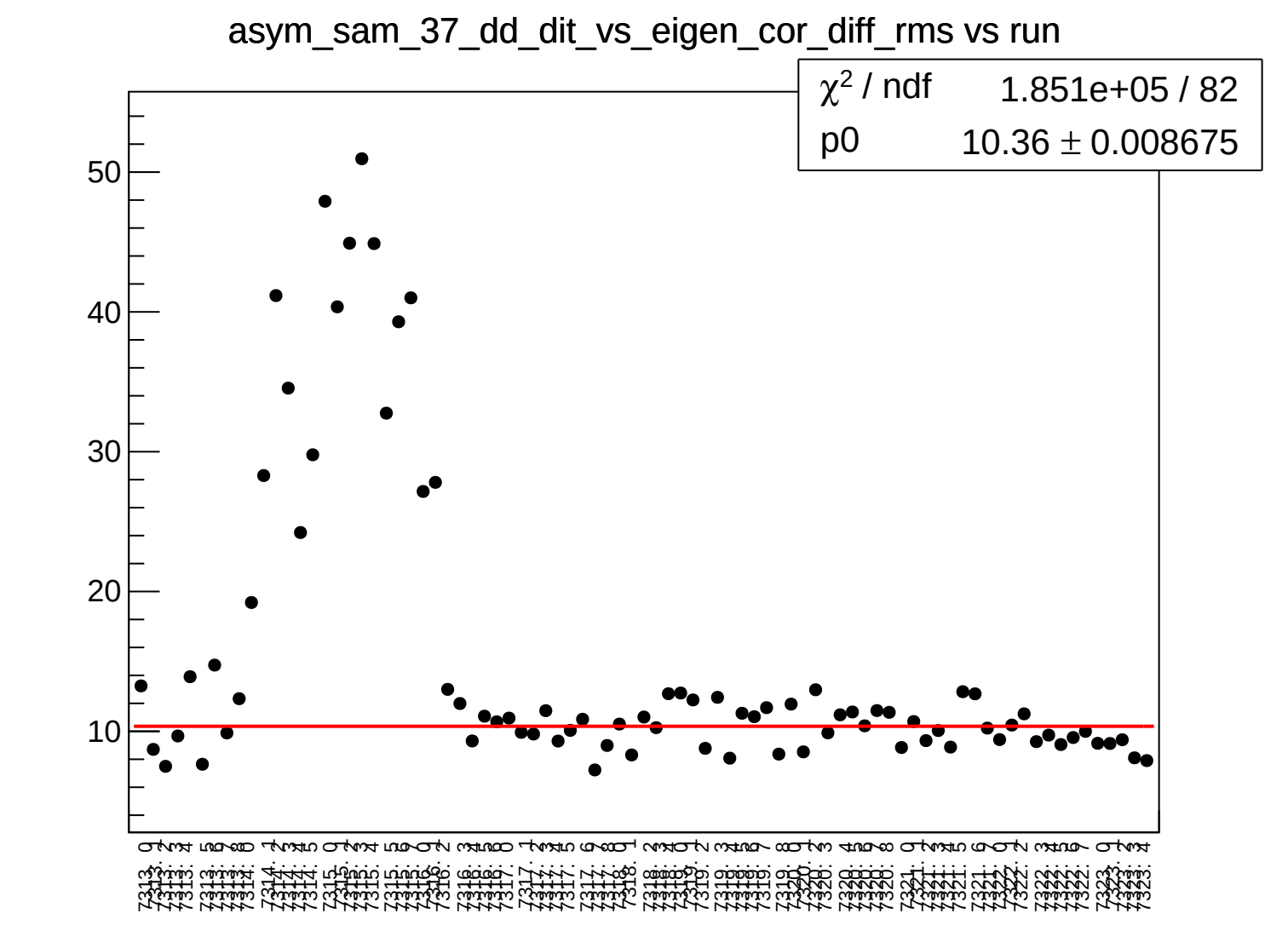

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.338e+06 / 82
p0 4.415e−12 ± 8.449e−15
0.025
0.02
0.015
0.01
0.005
0

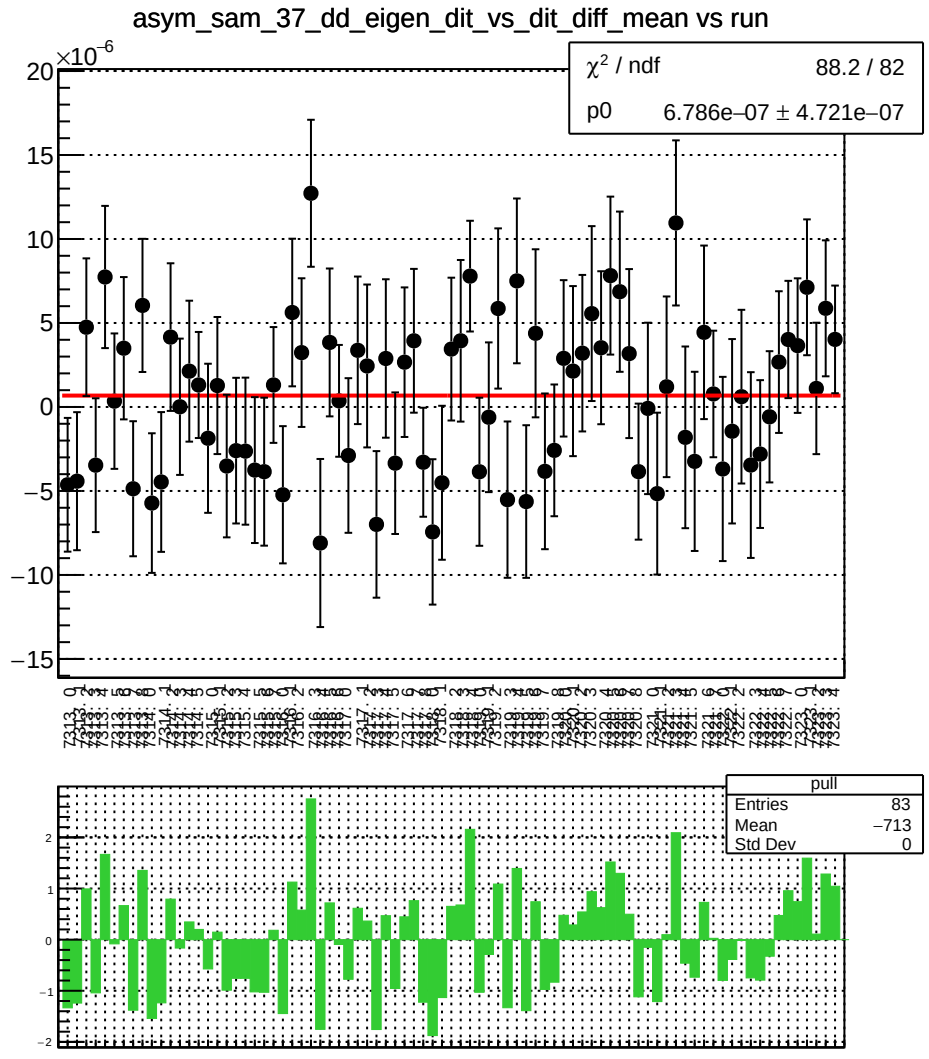

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 −0.01778 ± 0.01227
pull
Entries 83
Mean 206.9
Std Dev 0

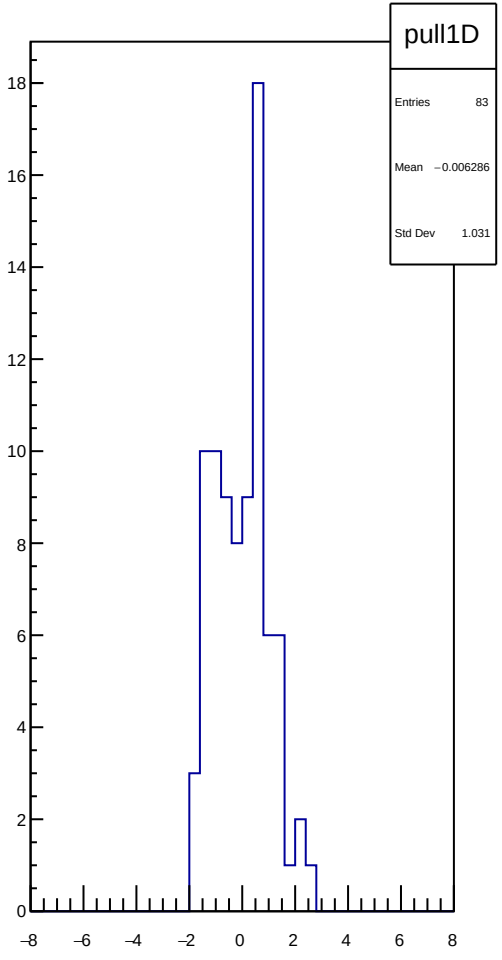

pull1D
Entries 83
Mean −0.02557
Std Dev 0.9792

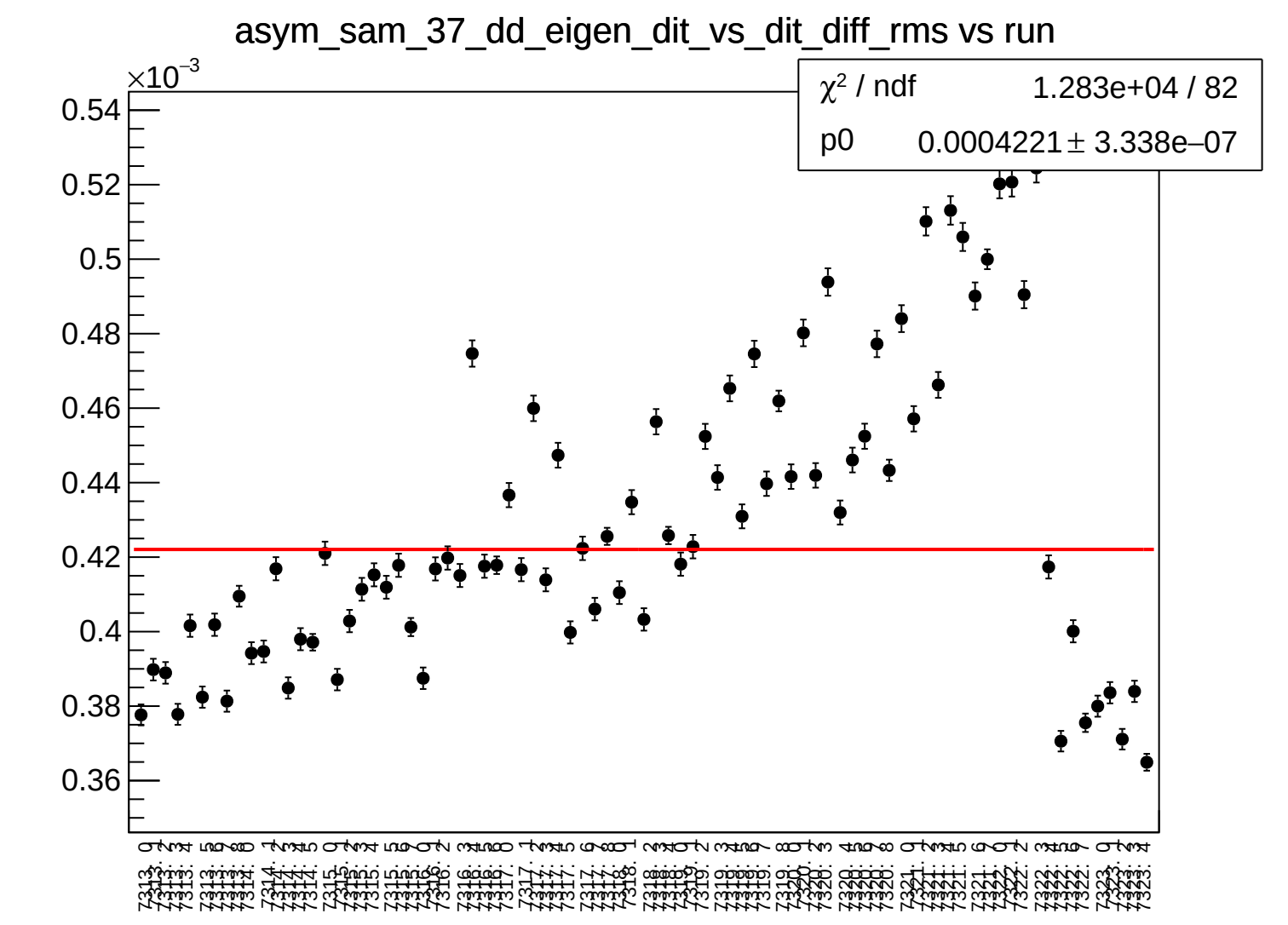

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.851e+05 / 82
p0 10.36 ± 0.008675
50
40
30
20
10

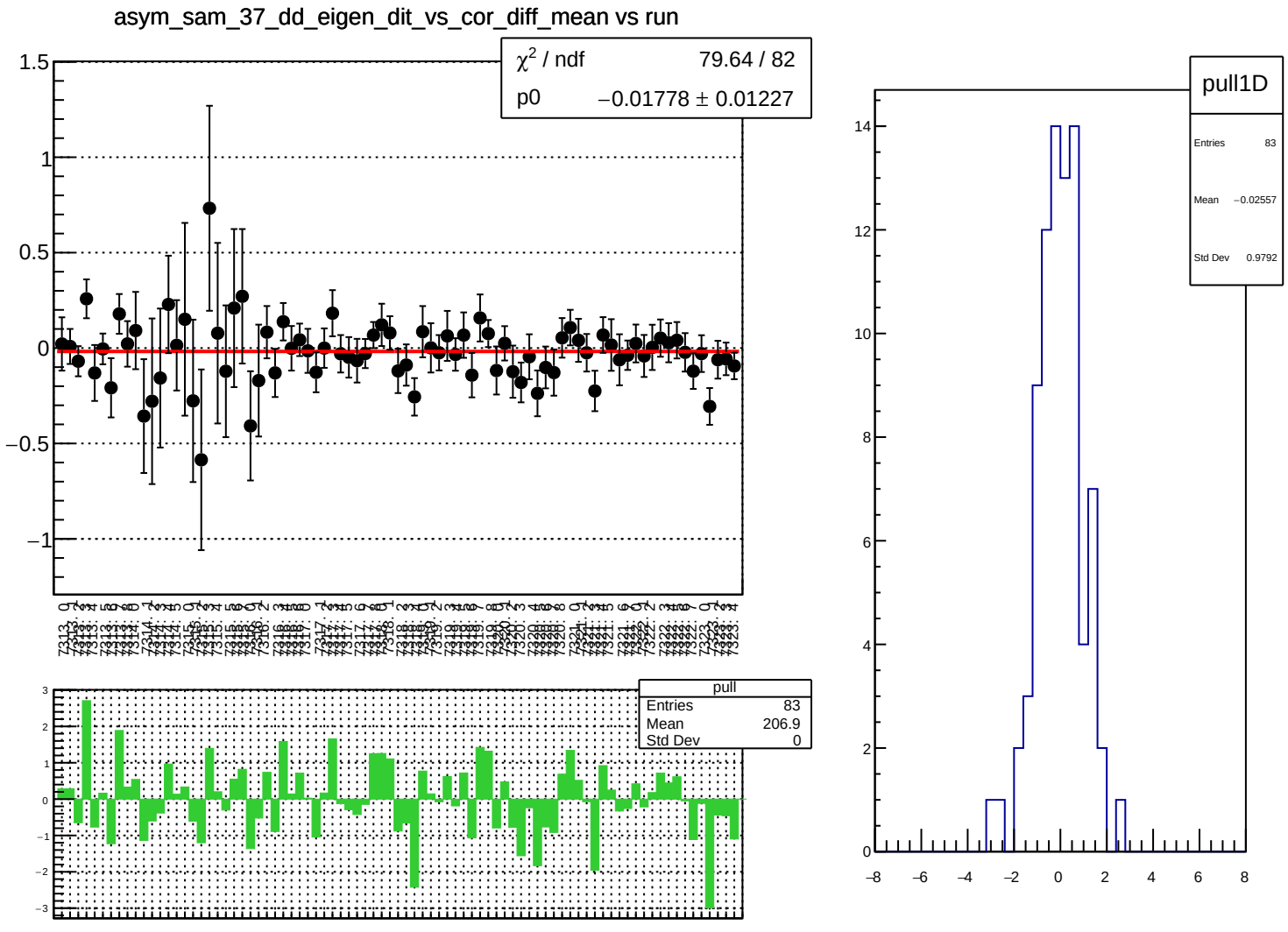

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 −0.01778 ± 0.01227
pull
Entries 83
Mean 206.9
Std Dev 0
pull1D
Entries 83
Mean −0.02557
Std Dev 0.9792

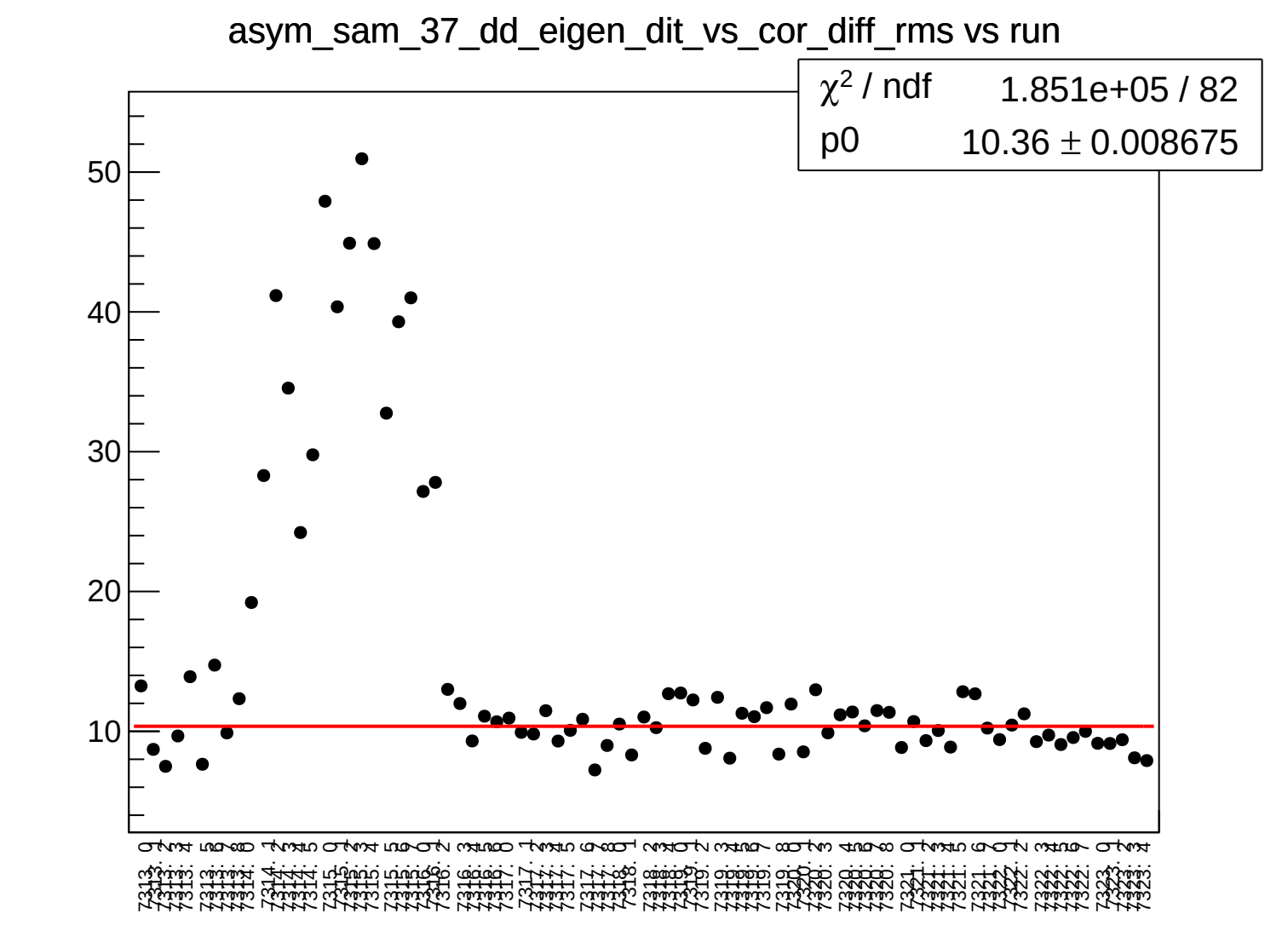

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.851e+05 / 82
p0 10.36 ± 0.008675
50
40
30
20
10

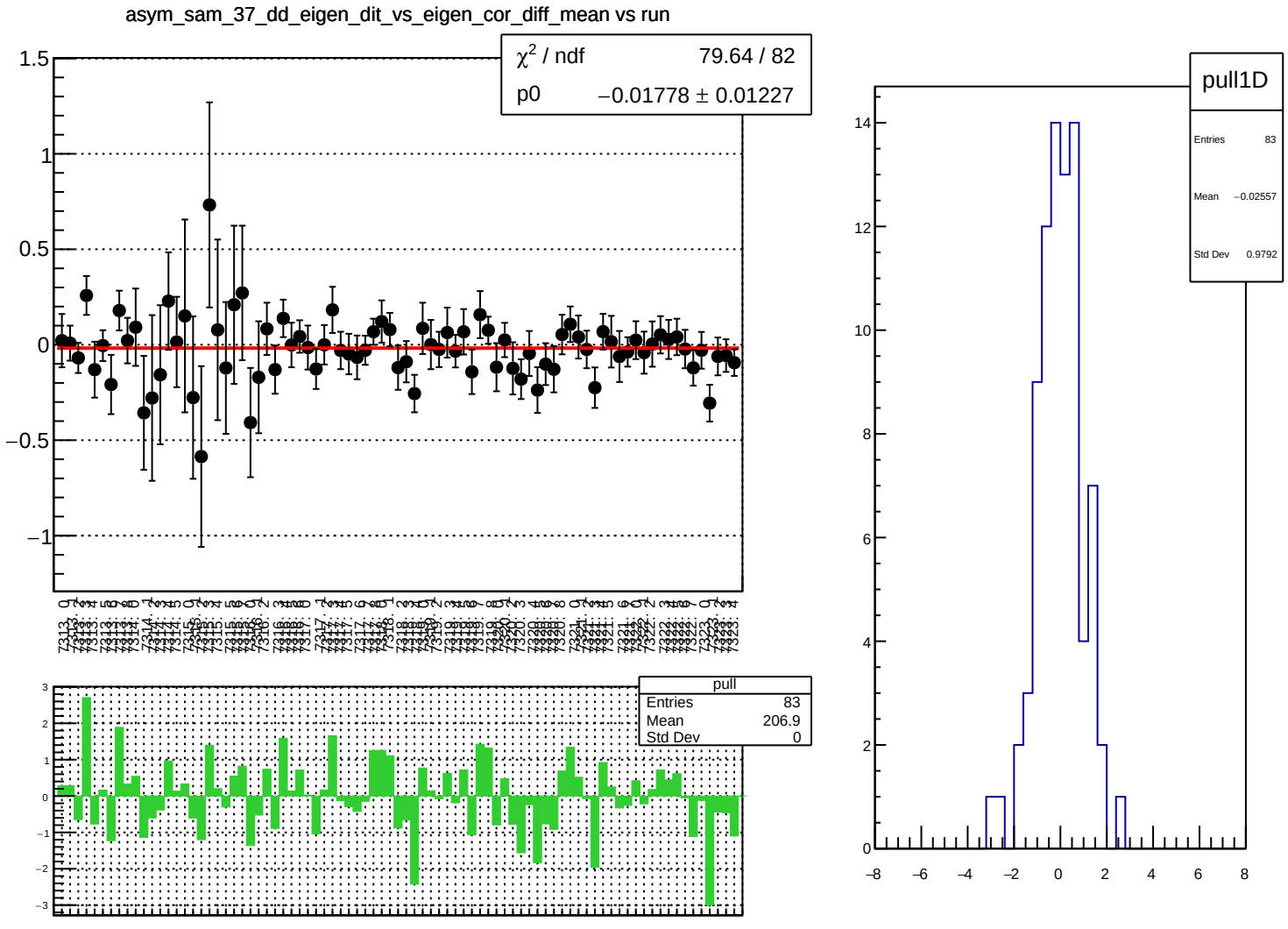

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 88.2 / 82
p0 6.786e−07 ± 4.721e−07
pull
Entries 83
Mean −713
Std Dev 0

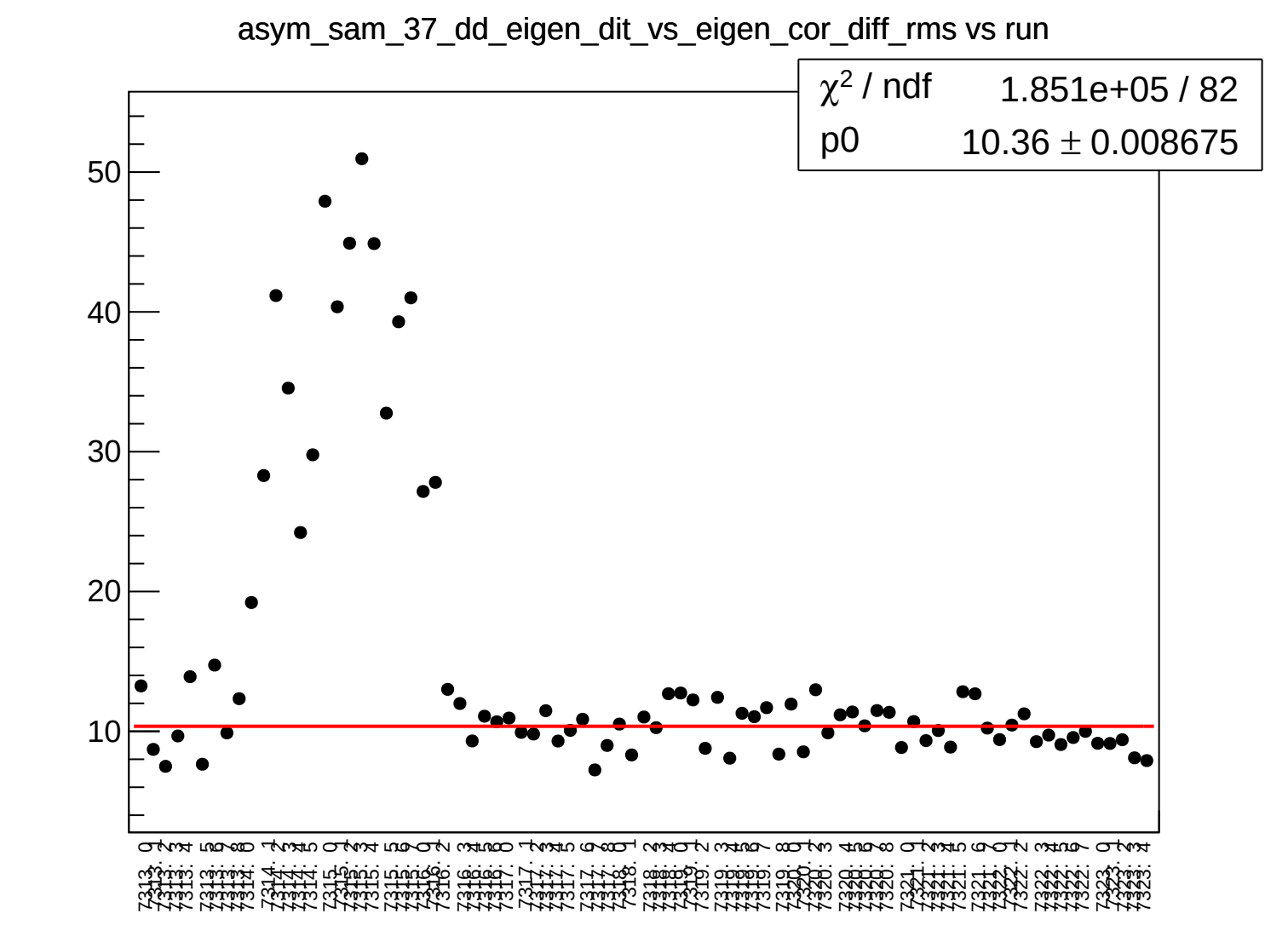

pull1D
Entries 83
Mean −0.006286
Std Dev 1.031

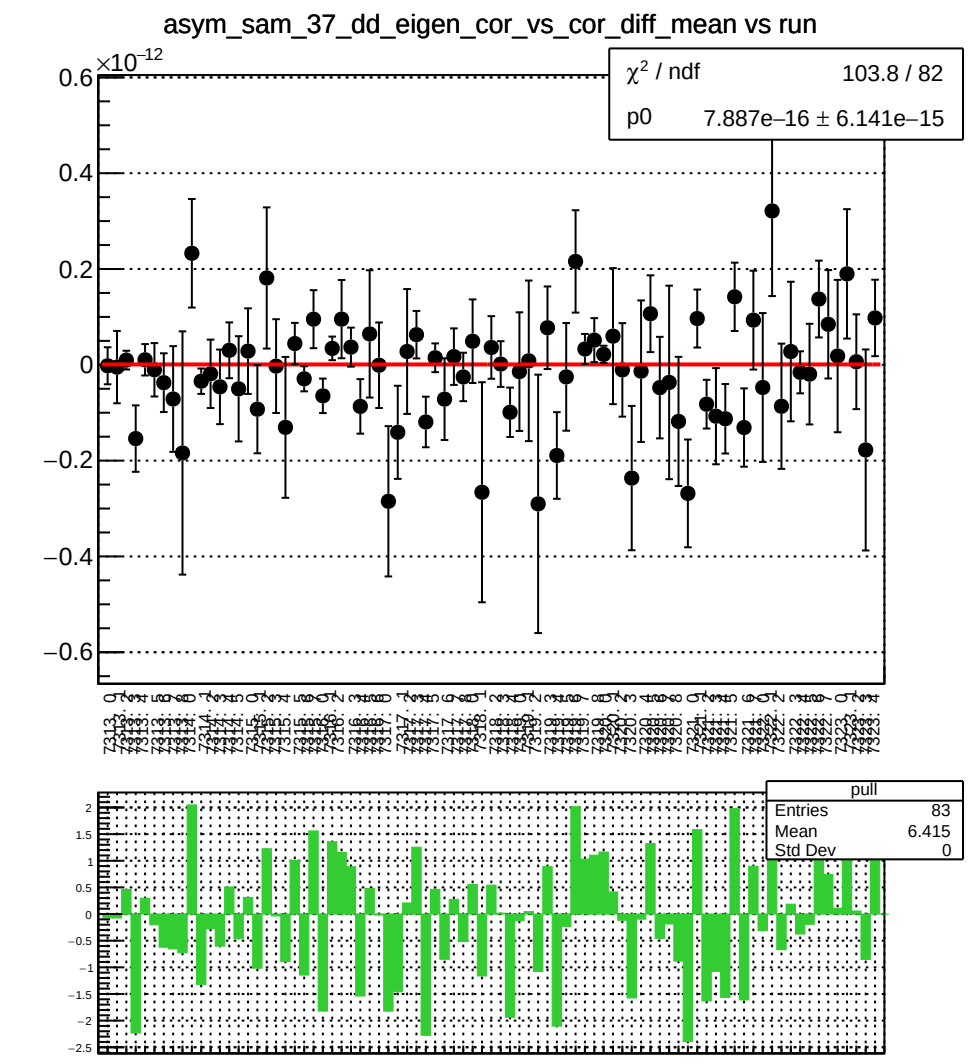

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.283e+04 / 82
p0 0.0004221 ± 3.338e−07
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36

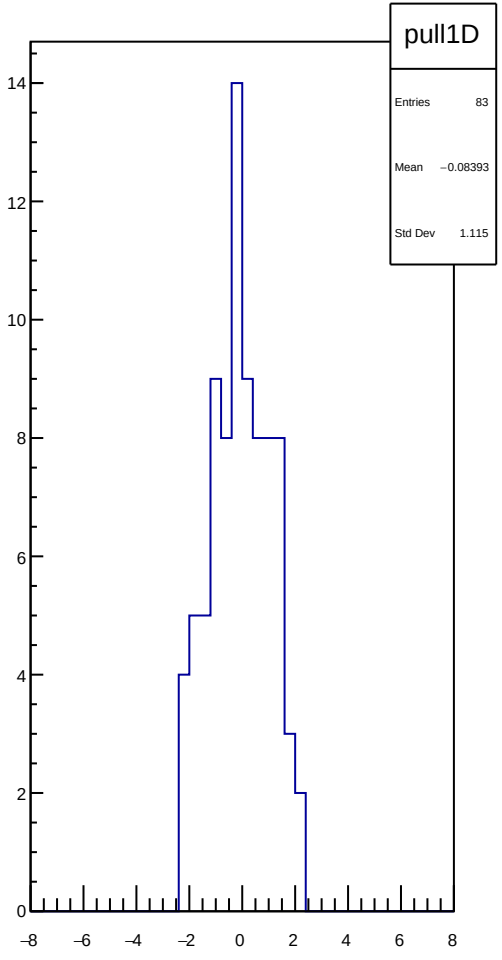

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 −0.01778 ± 0.01227
pull
Entries 83
Mean 206.9
Std Dev 0
pull1D
Entries 83
Mean −0.02557
Std Dev 0.9792

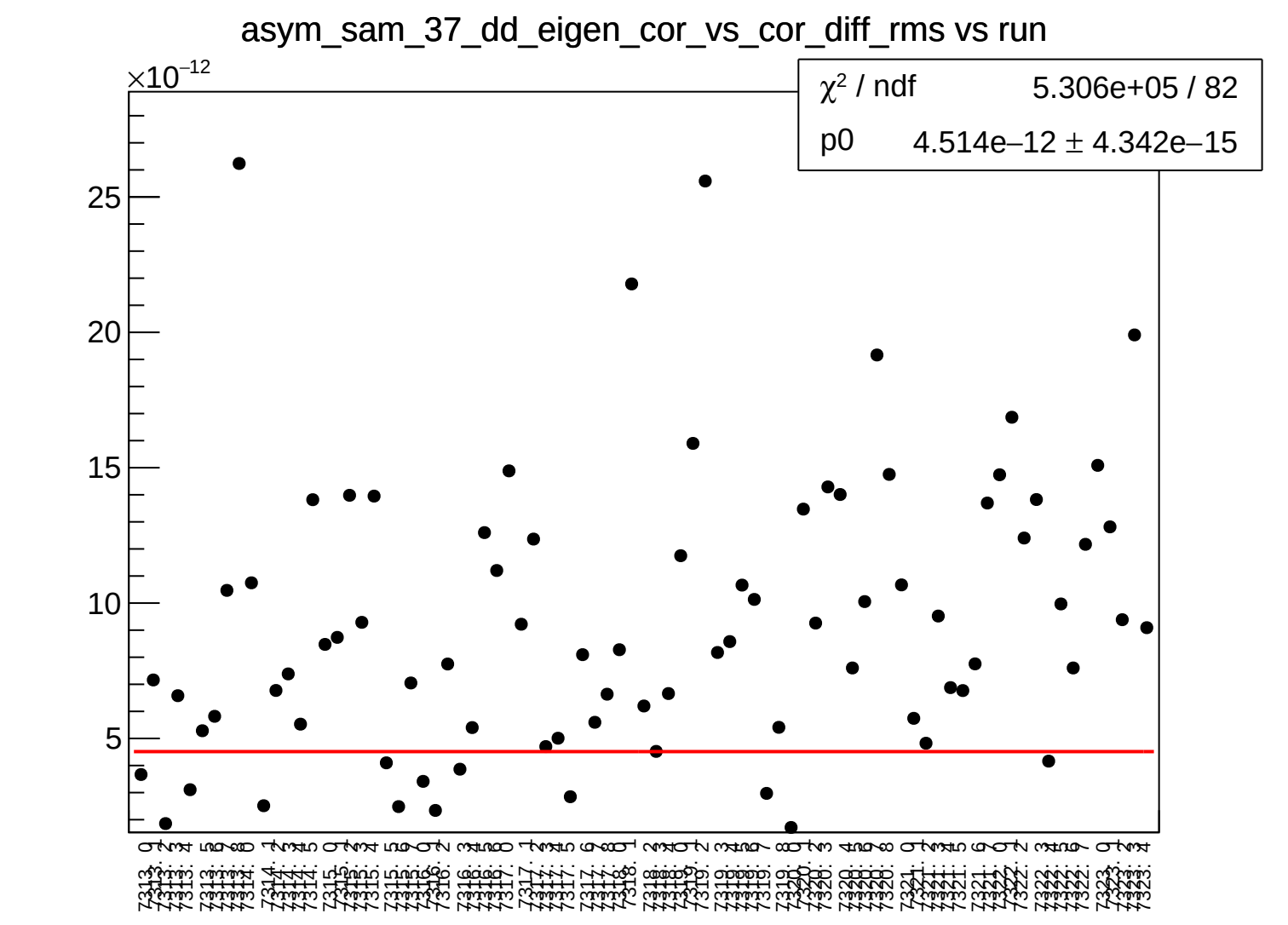

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.851e+05 / 82
p0 10.36 ± 0.008675
50
40
30
20
10

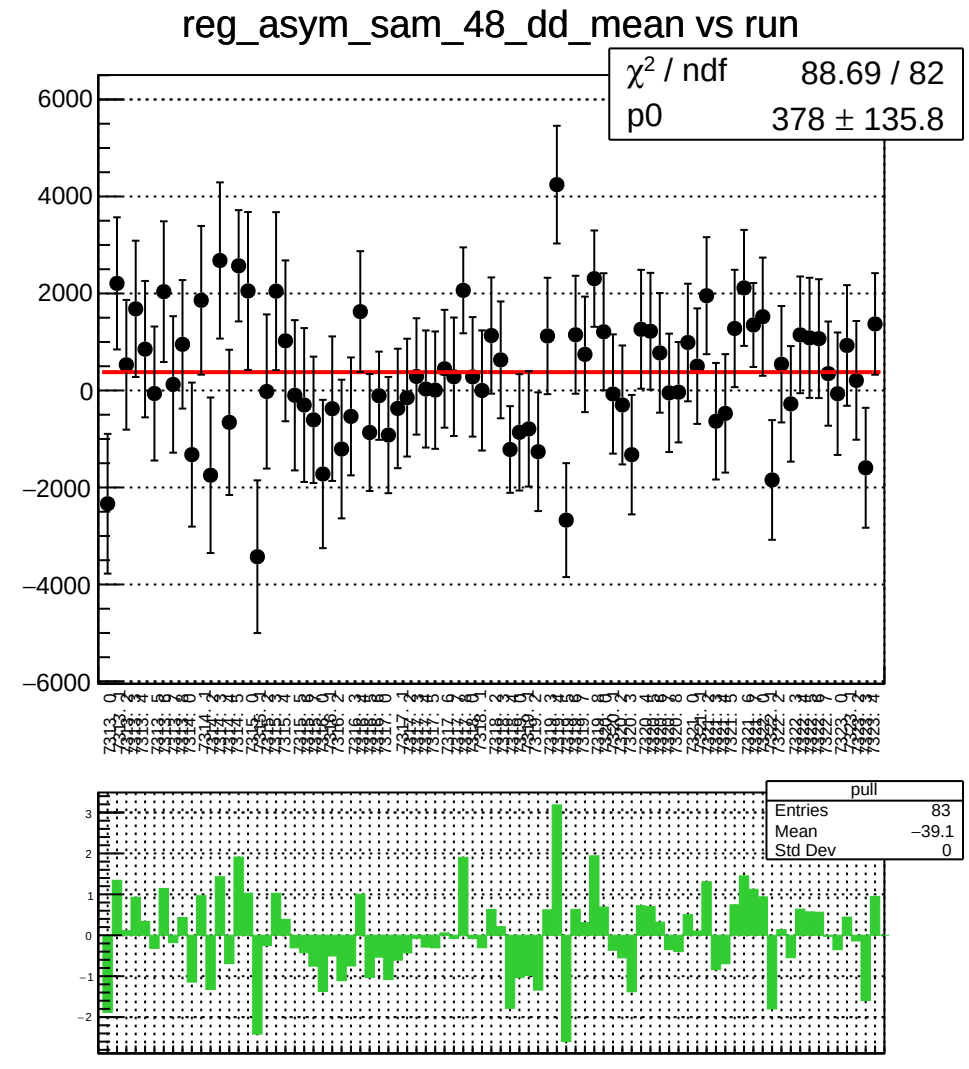

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 −0.01778 ± 0.01227
pull
Entries 83
Mean 206.9
Std Dev 0
pull1D
Entries 83
Mean −0.02557
Std Dev 0.9792

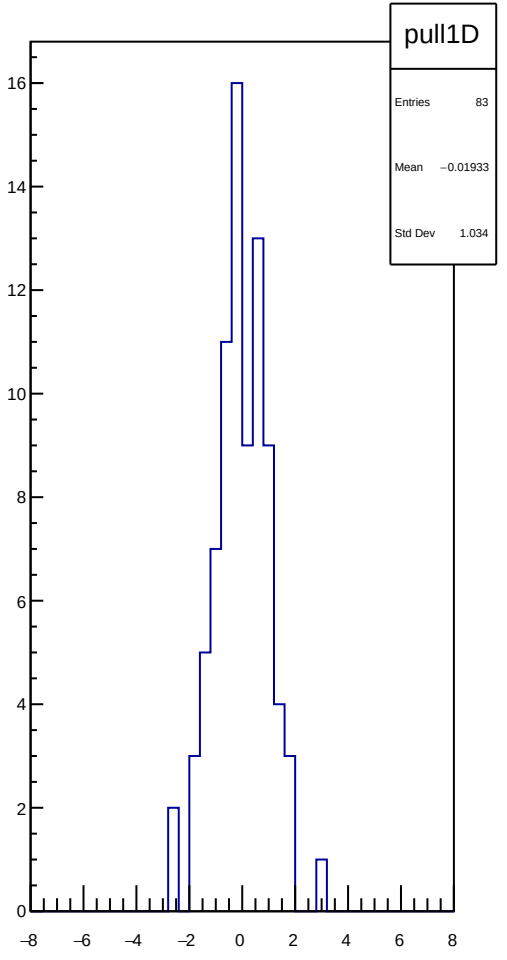

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.851e+05 / 82
p0 10.36 ± 0.008675
50
40
30
20
10

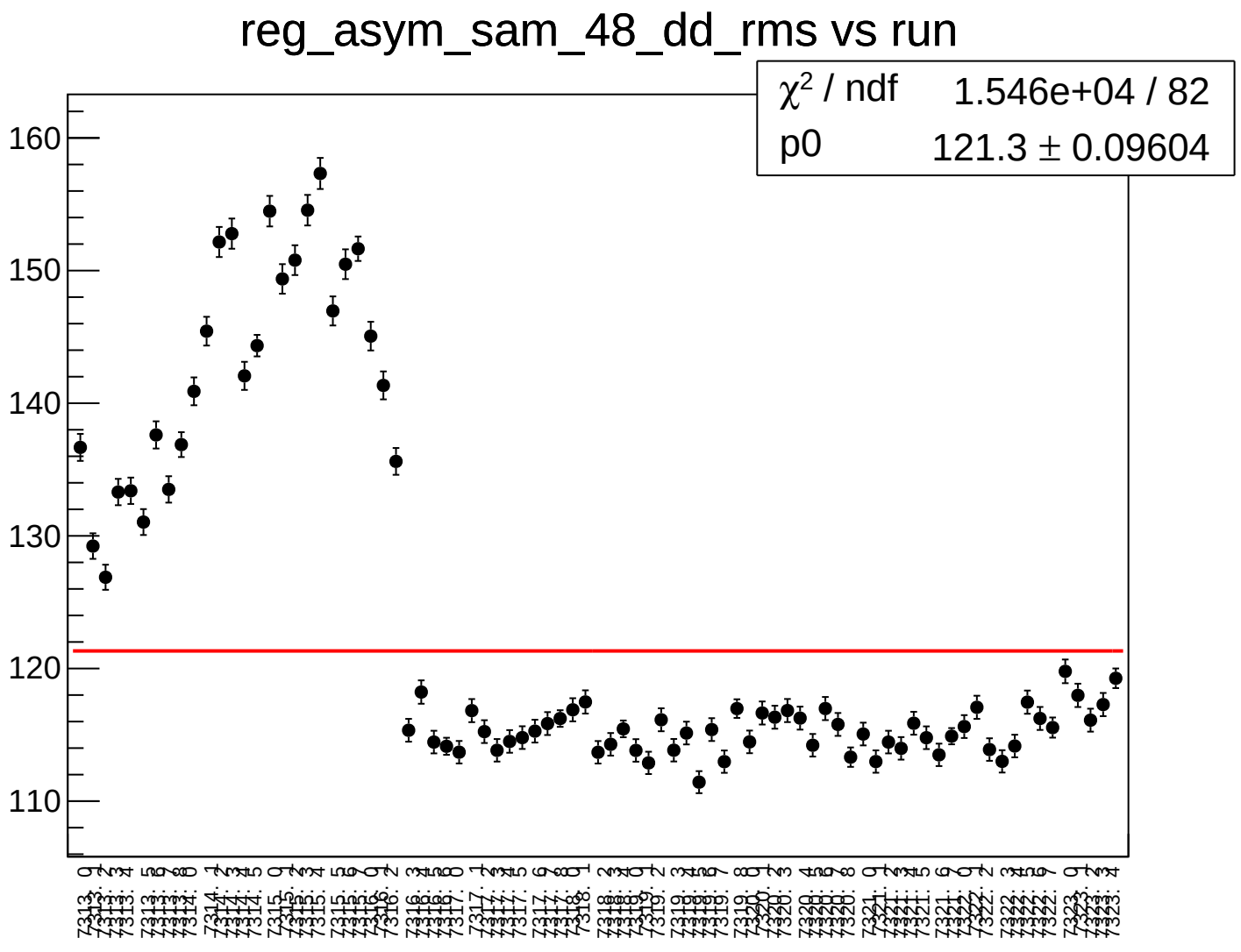

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 103.8 / 82
p0 7.887e−16 ± 6.141e−15
pull
Entries 83
Mean 6.415
Std Dev 0

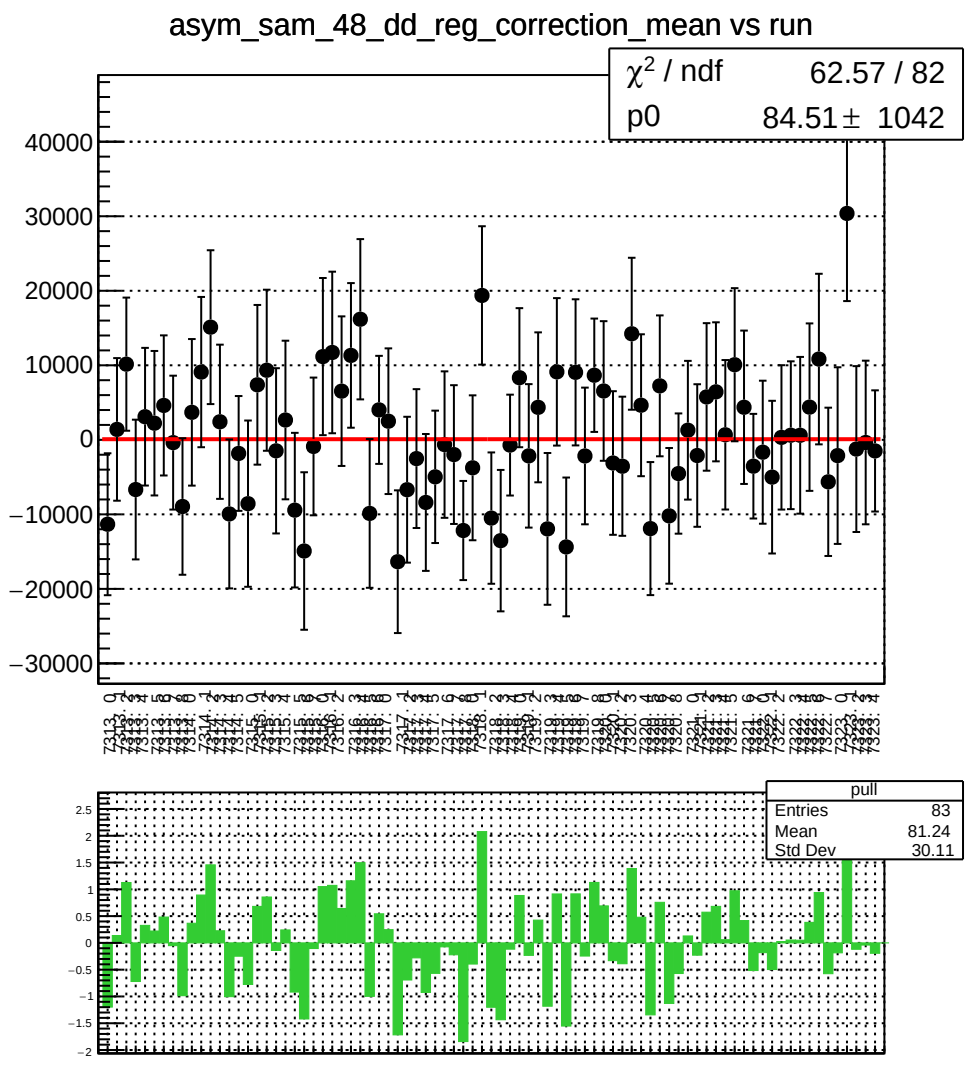

pull1D
Entries 83
Mean −0.08393
Std Dev 1.115

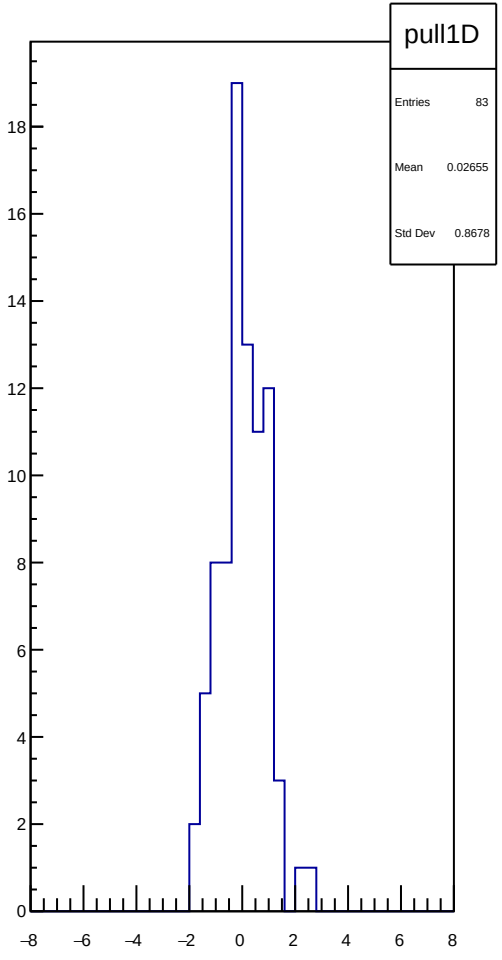

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.306e+05 / 82
p0 4.514e−12 ± 4.342e−15
25
20
15
10
5

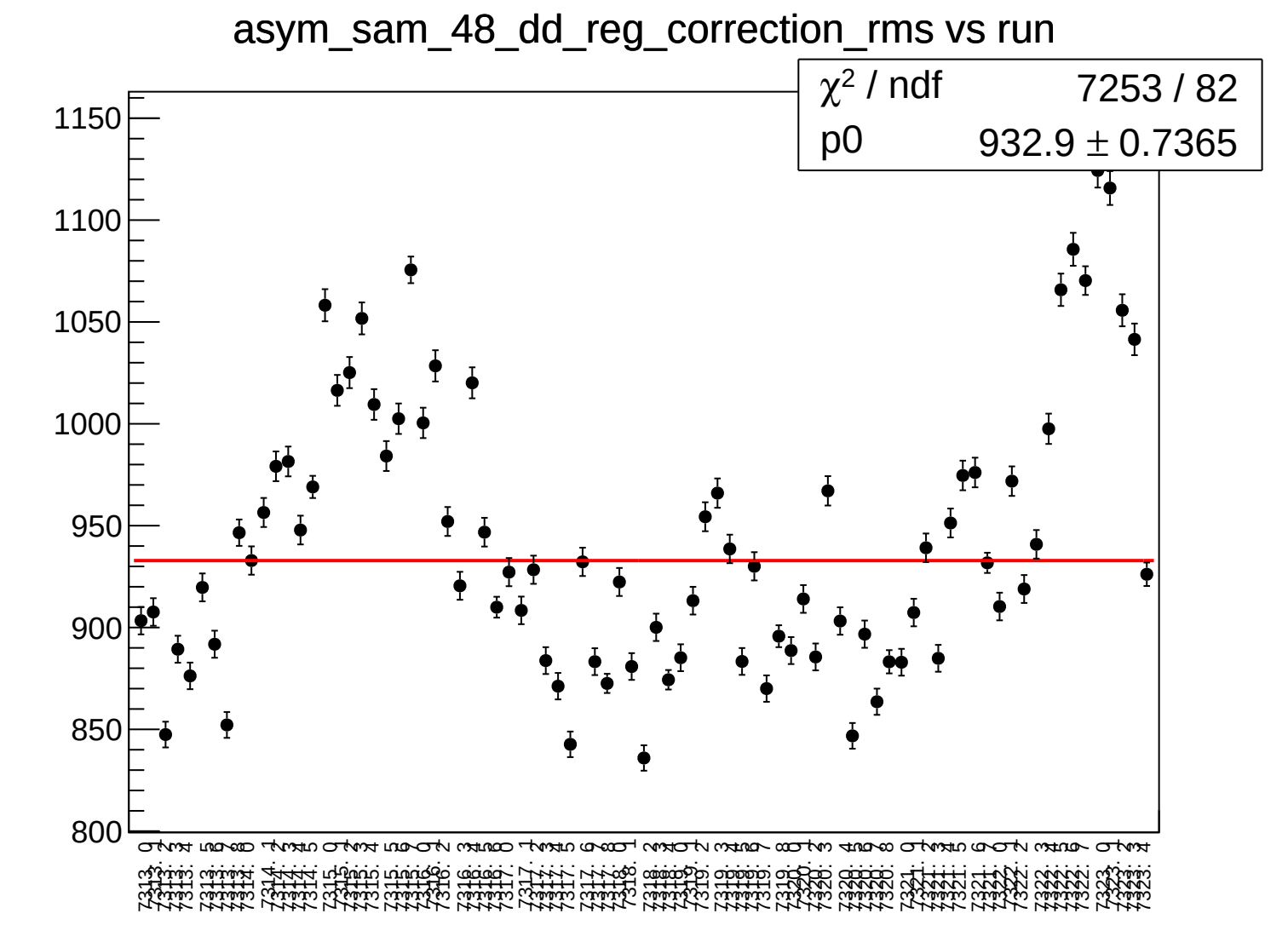

reg_asym_sam_48_dd_mean vs run
χ² / ndf 88.69 / 82
p0 378 ± 135.8
pull
Entries 83
Mean −39.1
Std Dev 0

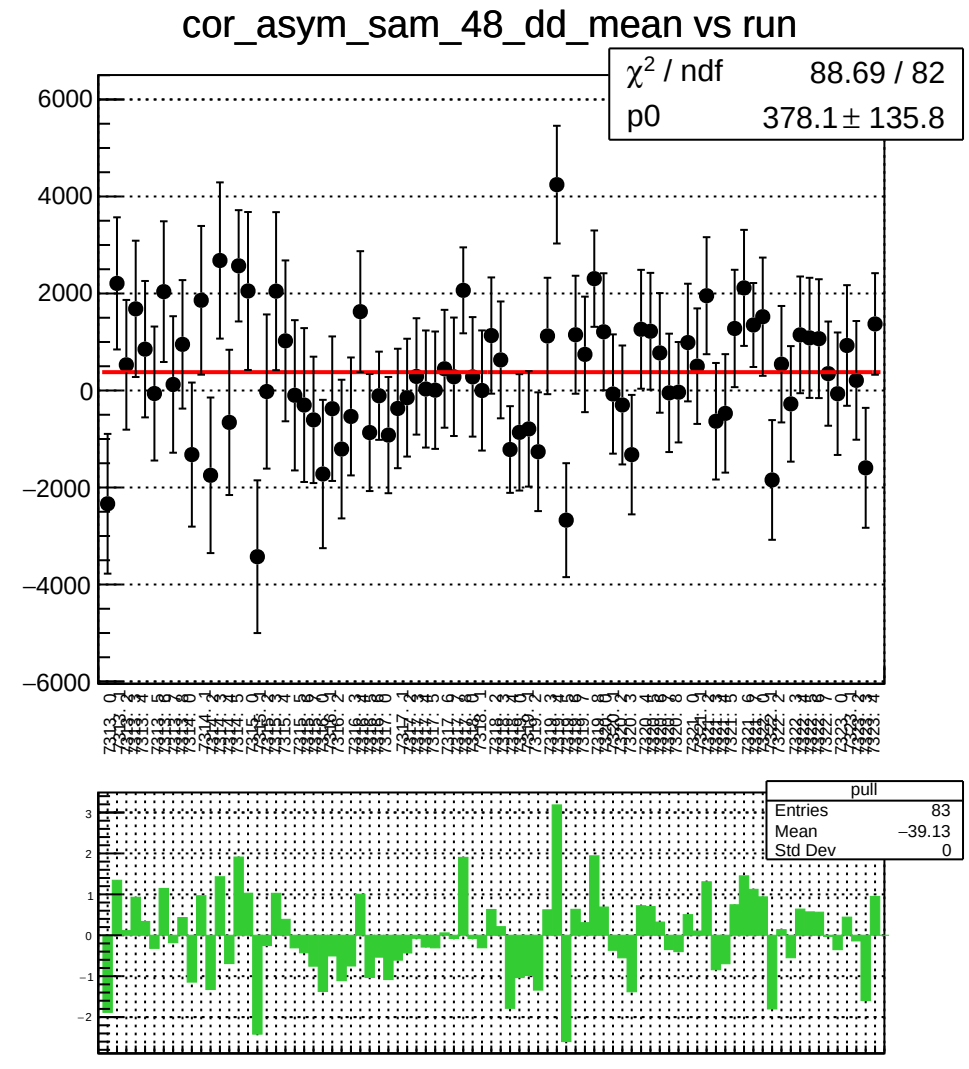

pull1D
Entries 83
Mean −0.01933
Std Dev 1.034

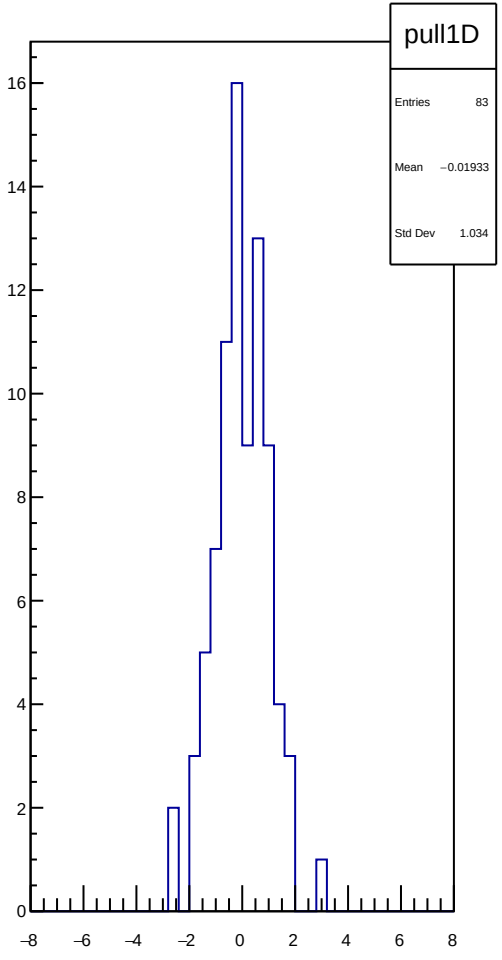

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.546e+04 / 82
p0 121.3 ± 0.09604
160
150
140
130
120
110

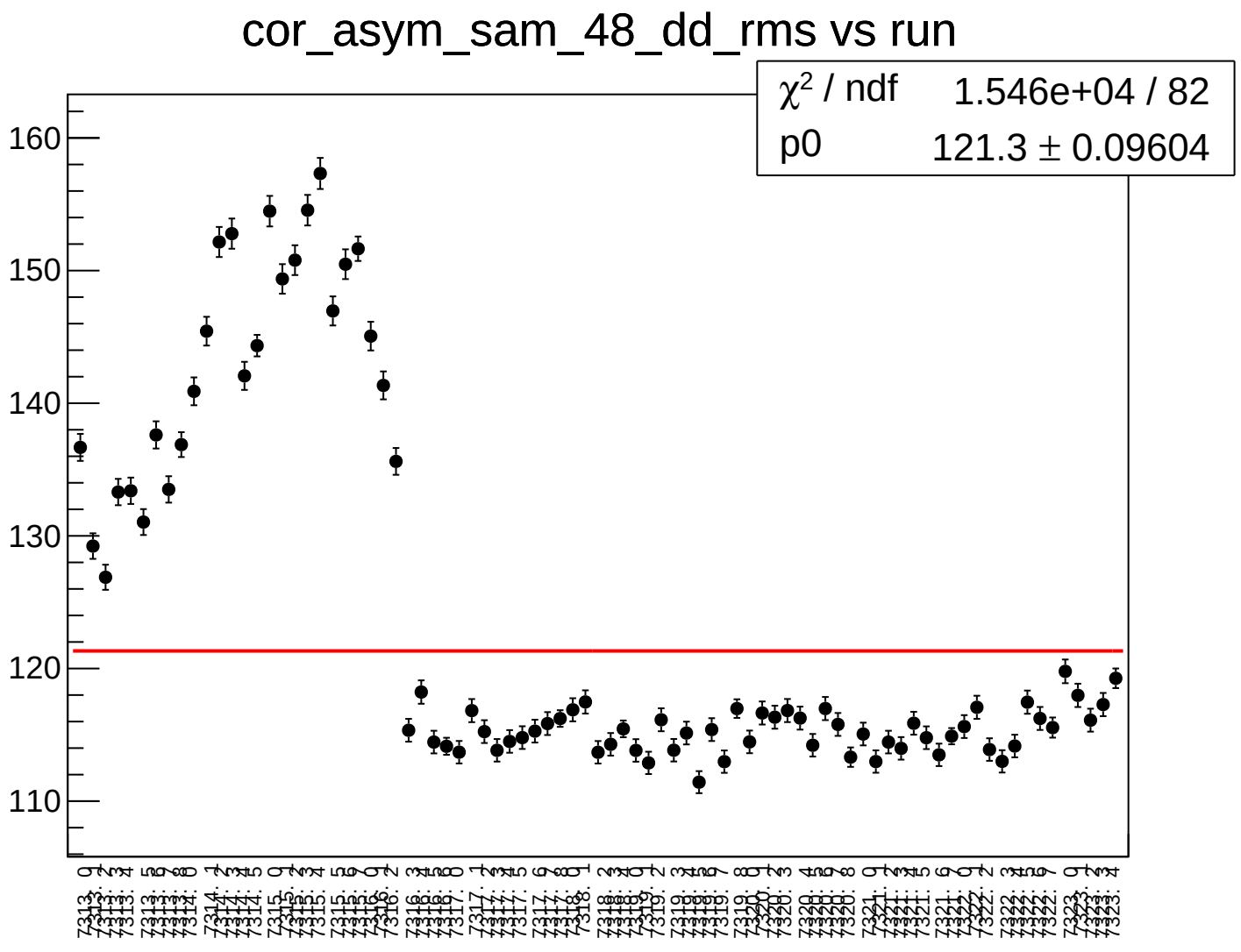

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 62.57 / 82
p0 84.51 ± 1042
pull
Entries 83
Mean 81.24
Std Dev 30.11

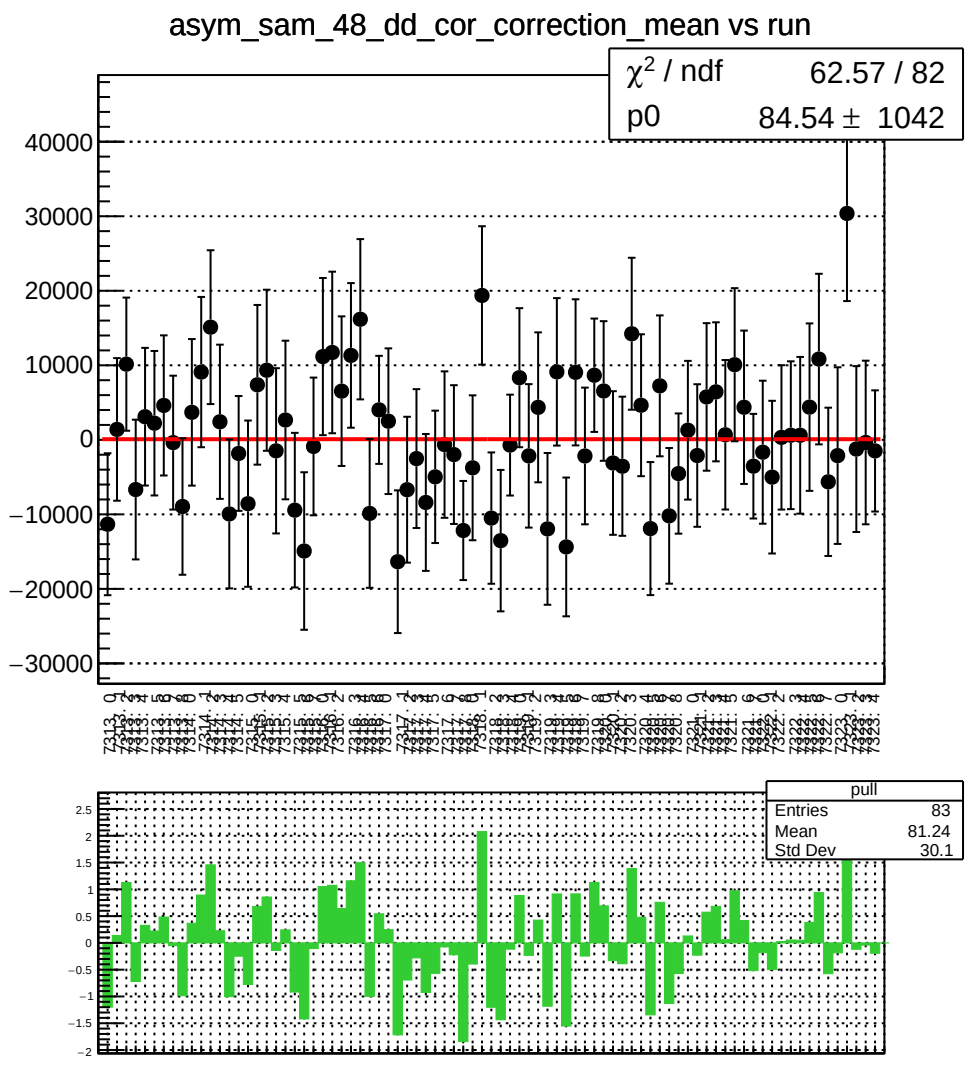

pull1D
Entries 83
Mean 0.02655
Std Dev 0.8678

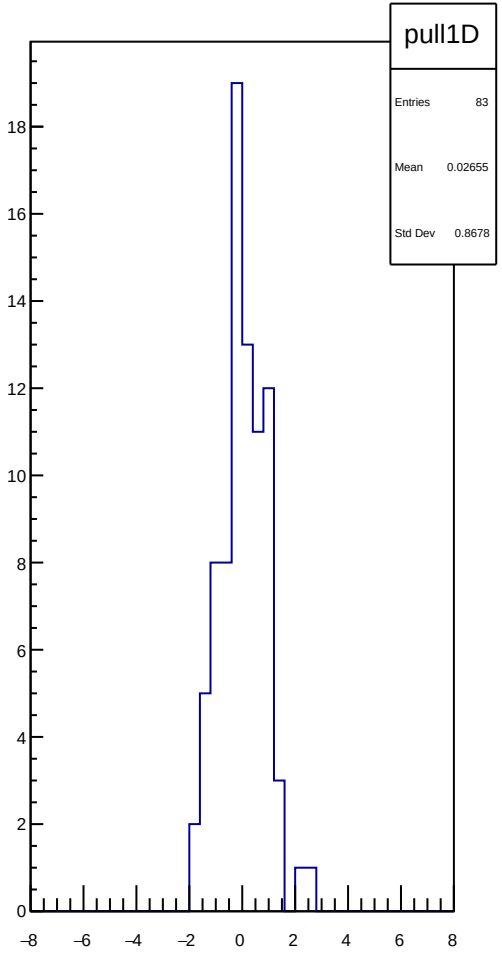

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 7253 / 82
p0 932.9 ± 0.7365
1150
1100
1050
1000
950
900
850
800

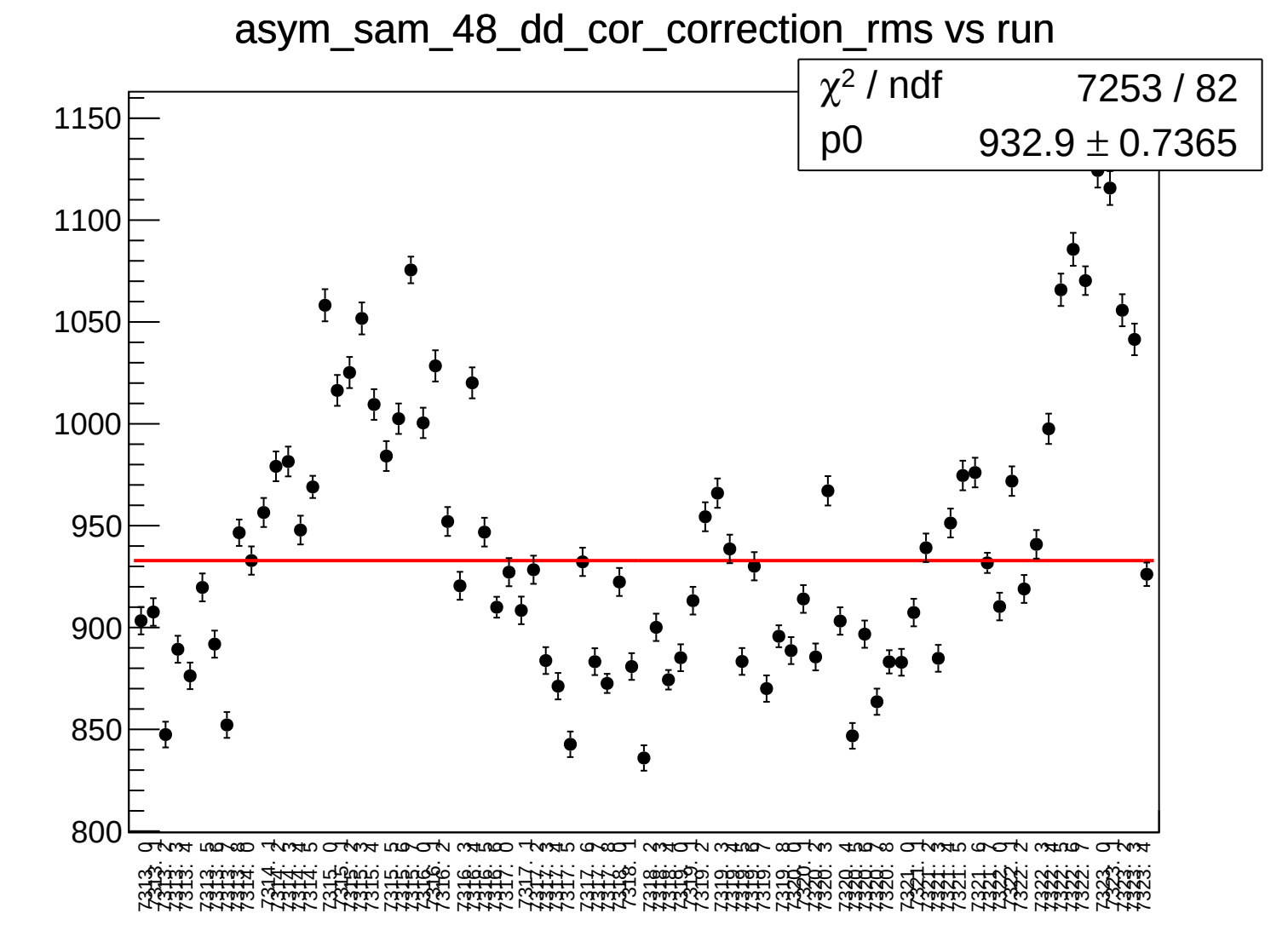

cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.69 / 82
p0 378.1 ± 135.8
pull
Entries 83
Mean −39.13
Std Dev 0

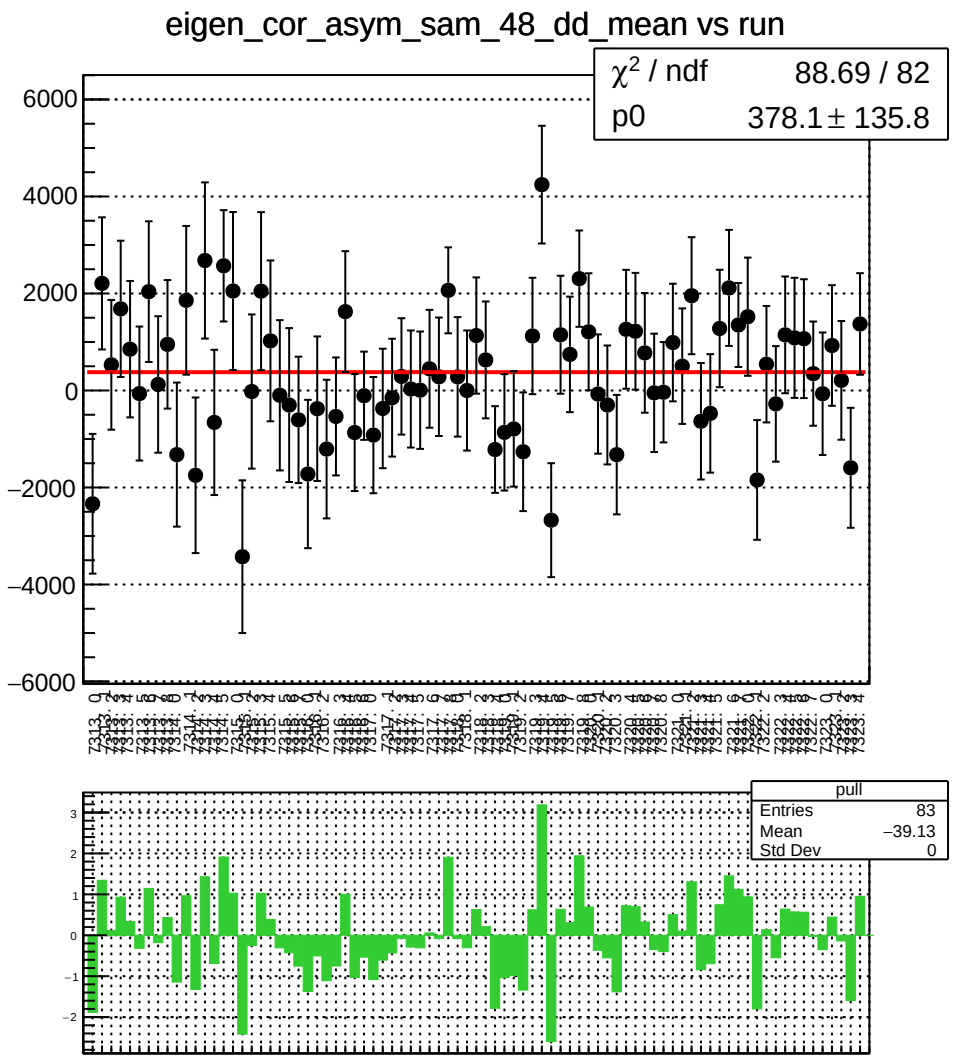

pull1D
Entries 83
Mean −0.01933
Std Dev 1.034

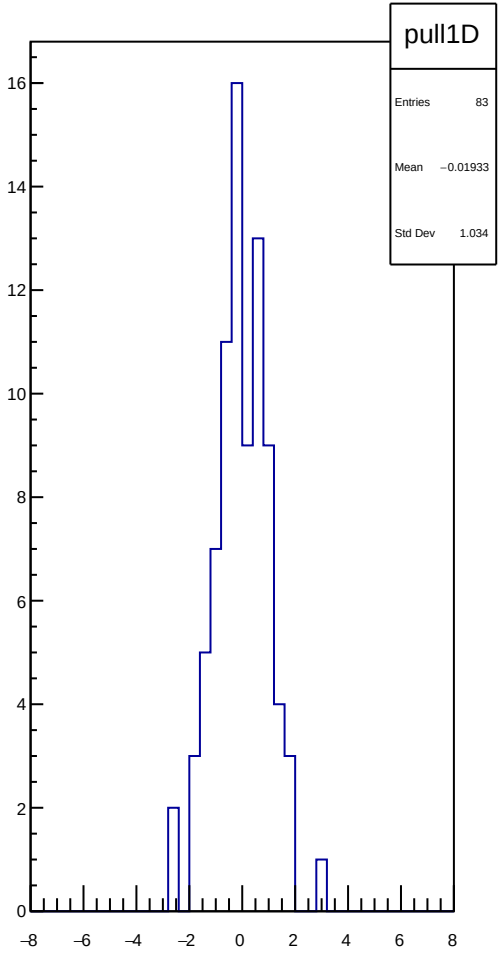

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.546e+04 / 82
p0 121.3 ± 0.09604
160
150
140
130
120
110

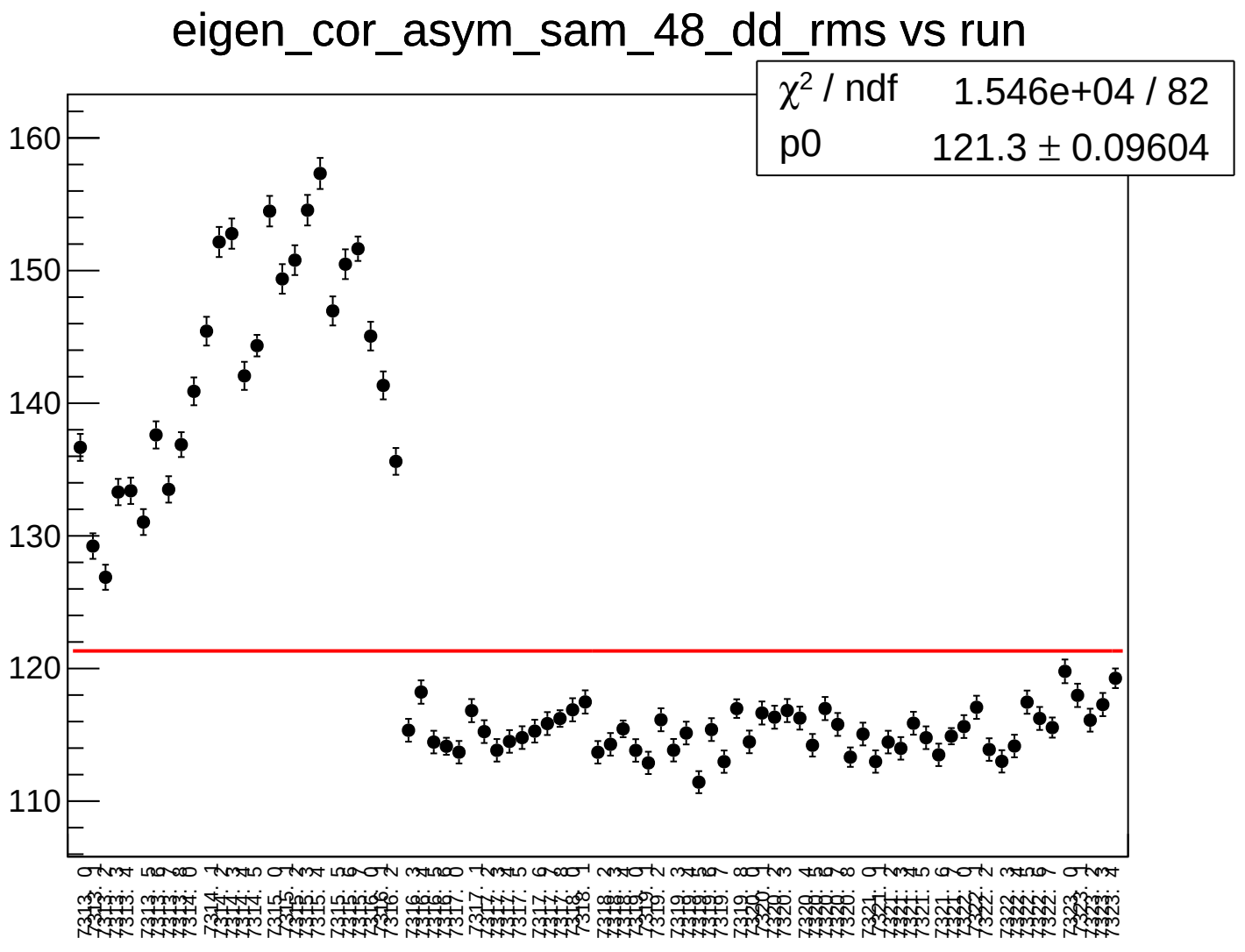

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 62.57 / 82
p0 84.54 ± 1042
pull
Entries 83
Mean 81.24
Std Dev 30.1

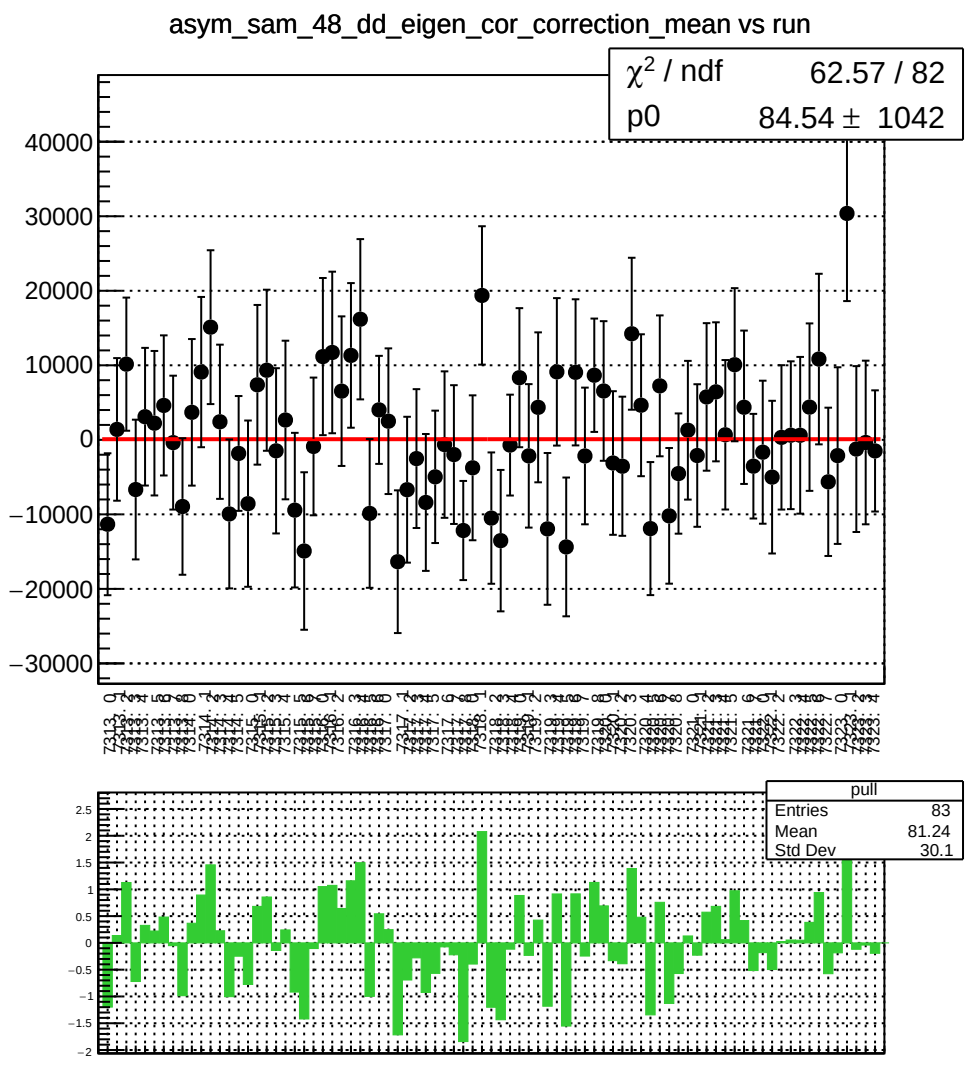

pull1D
Entries 83
Mean 0.02655
Std Dev 0.8678

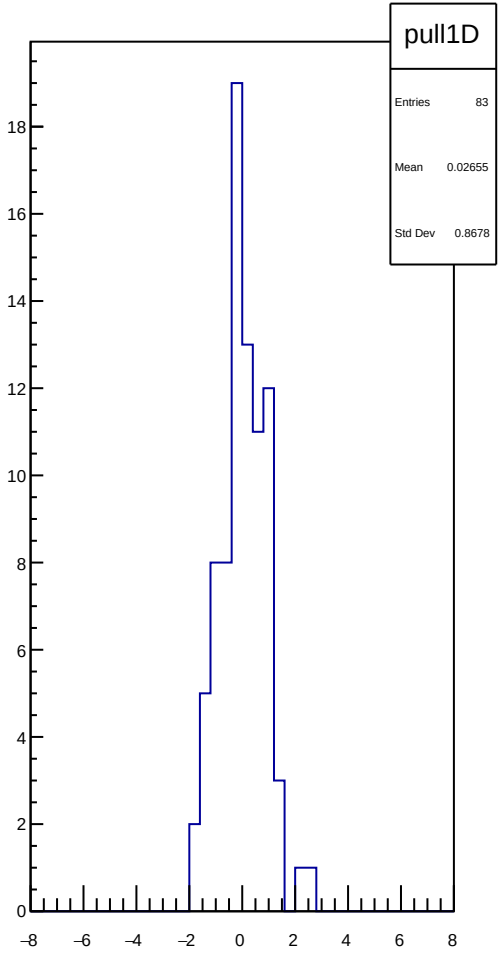

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 7253 / 82
p0 932.9 ± 0.7365
1150
1100
1050
1000
950
900
850
800

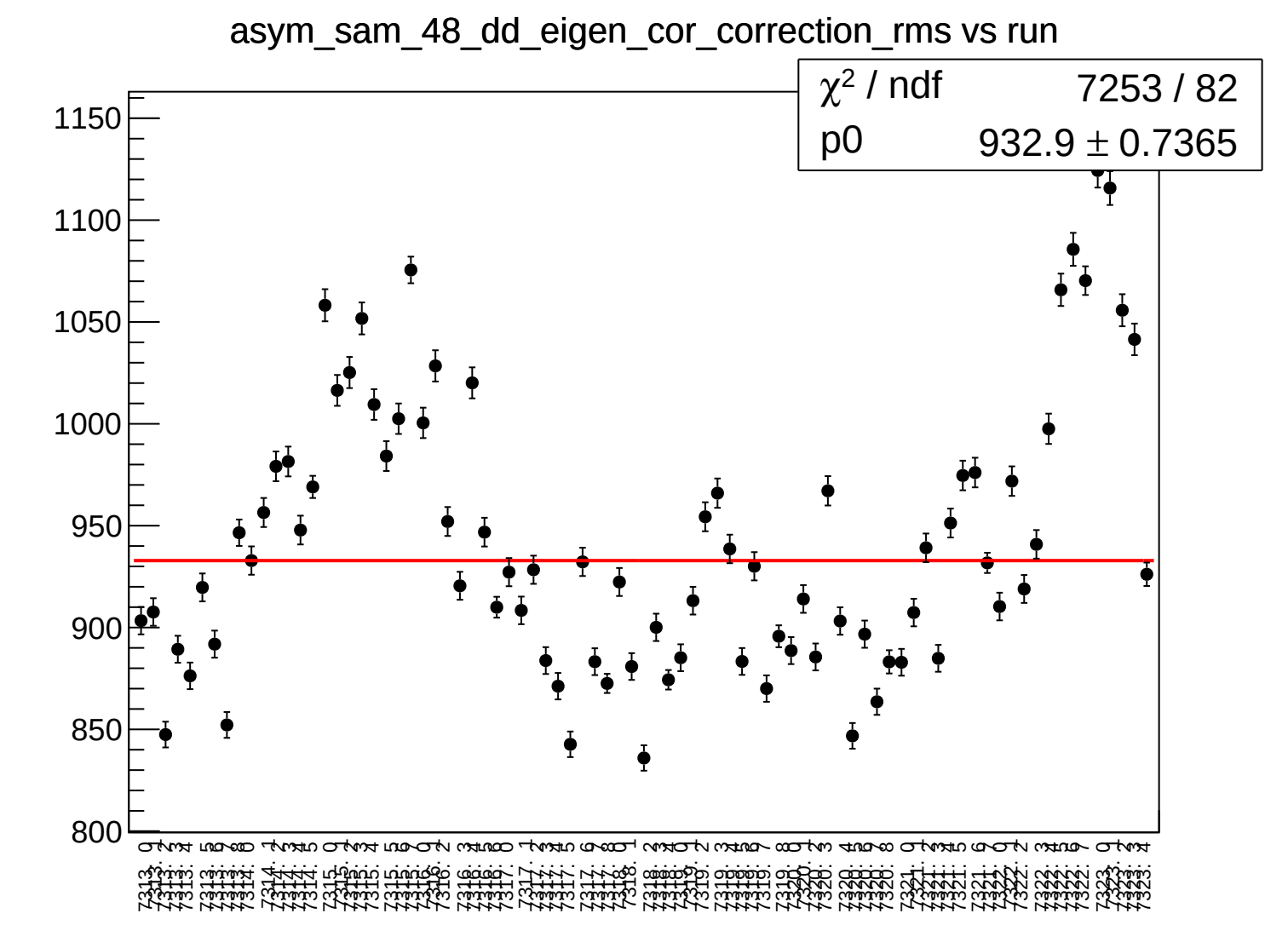

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.69 / 82
p0 378.1 ± 135.8
pull
Entries 83
Mean −39.13
Std Dev 0

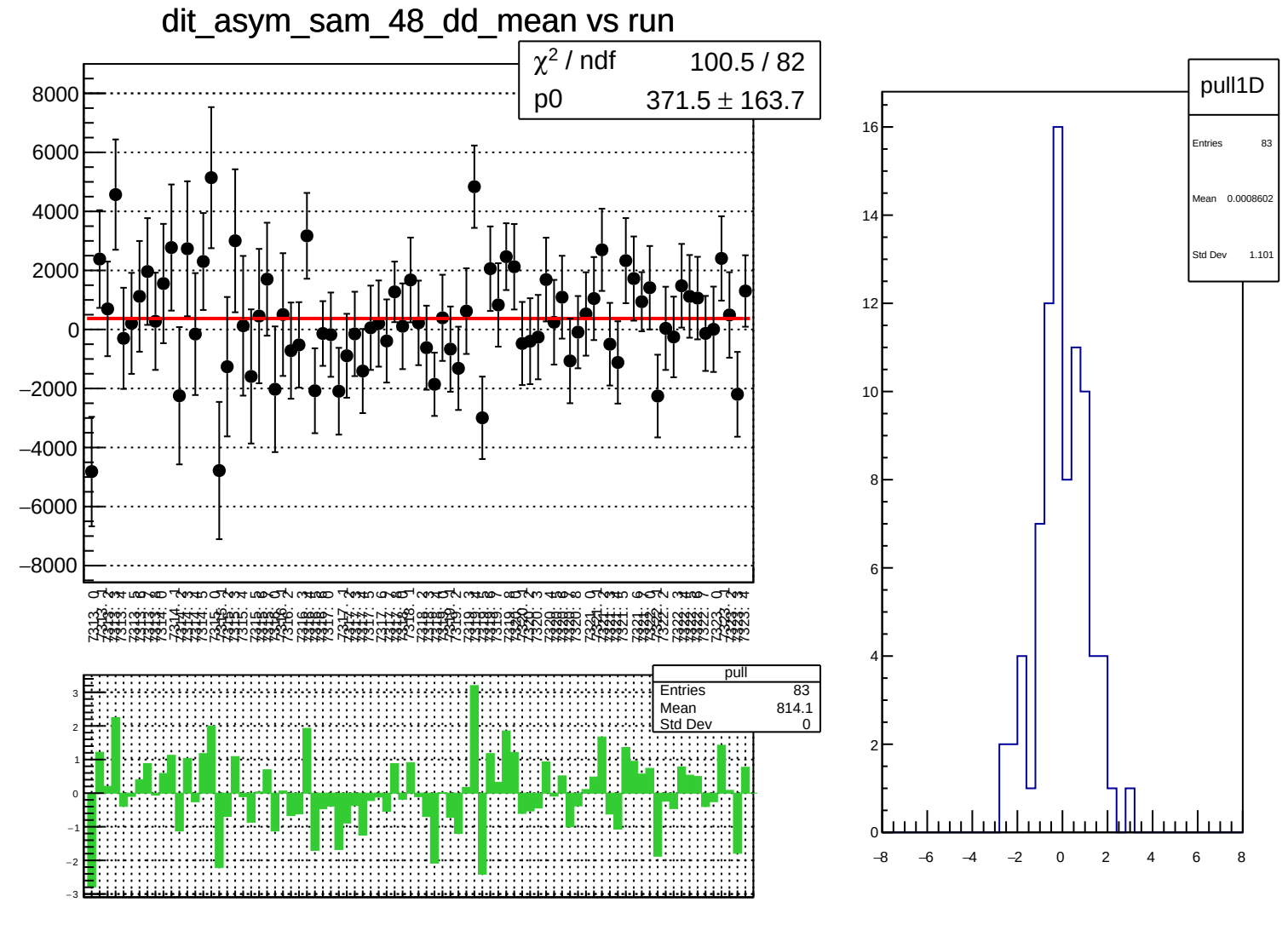

pull1D
Entries 83
Mean −0.01933
Std Dev 1.034

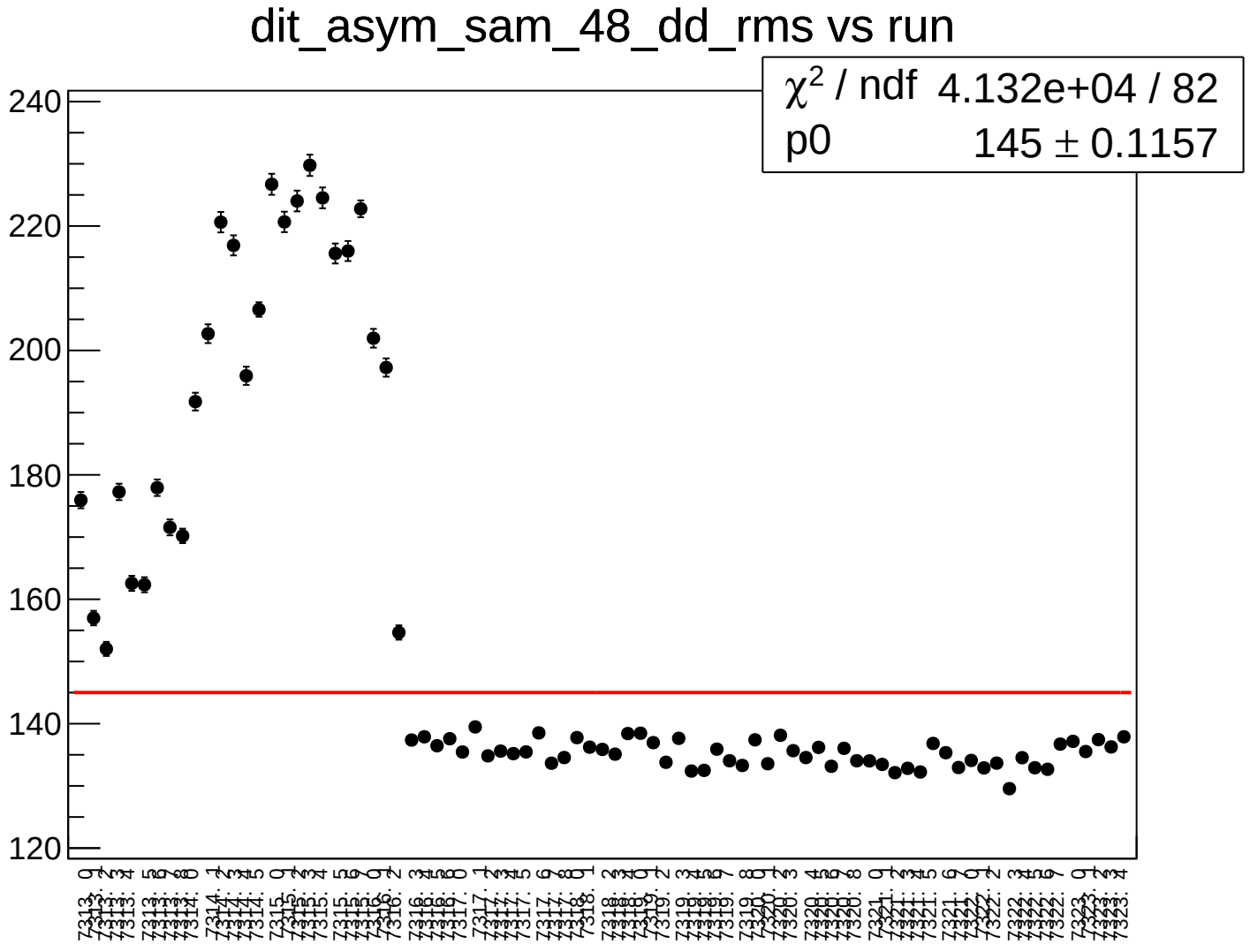

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.546e+04 / 82
p0 121.3 ± 0.09604
160
150
140
130
120
110

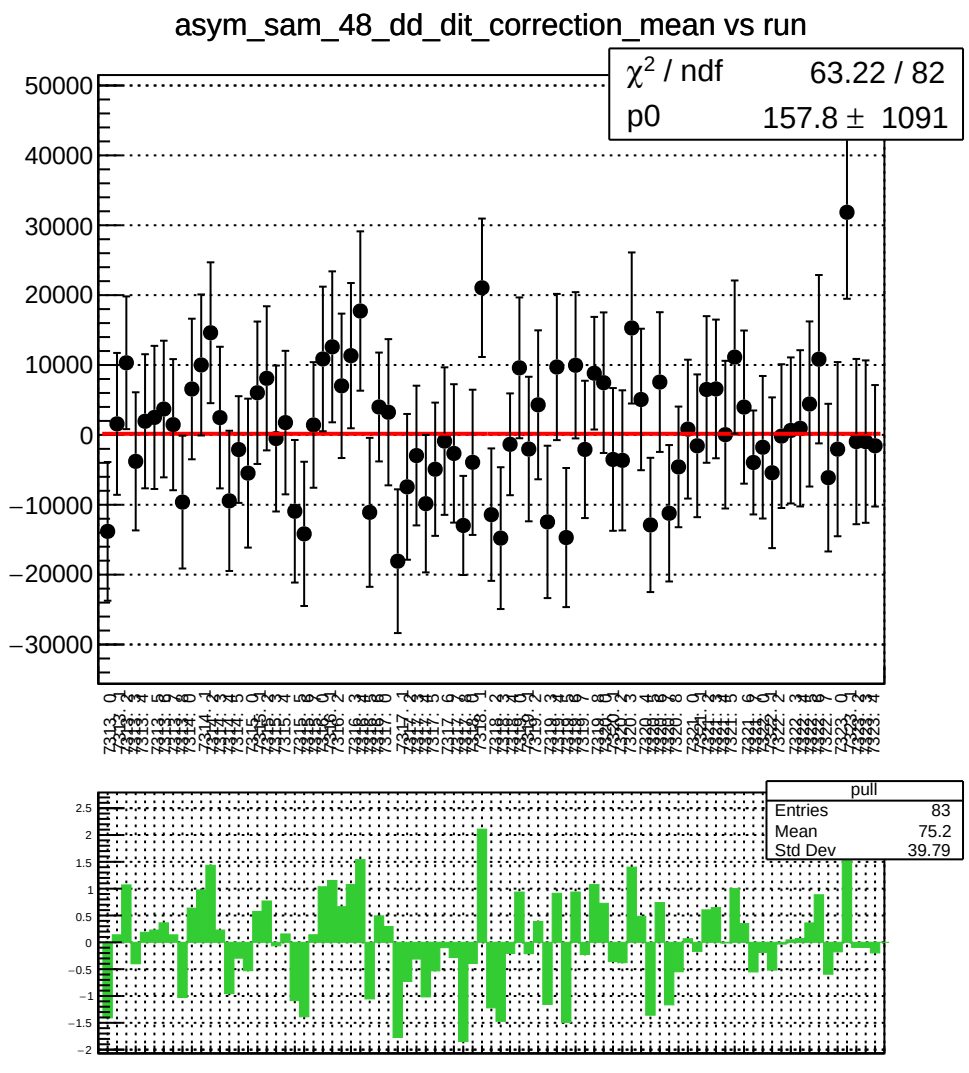

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.57 / 82
p0 84.54 ± 1042
pull
Entries 83
Mean 81.24
Std Dev 30.1

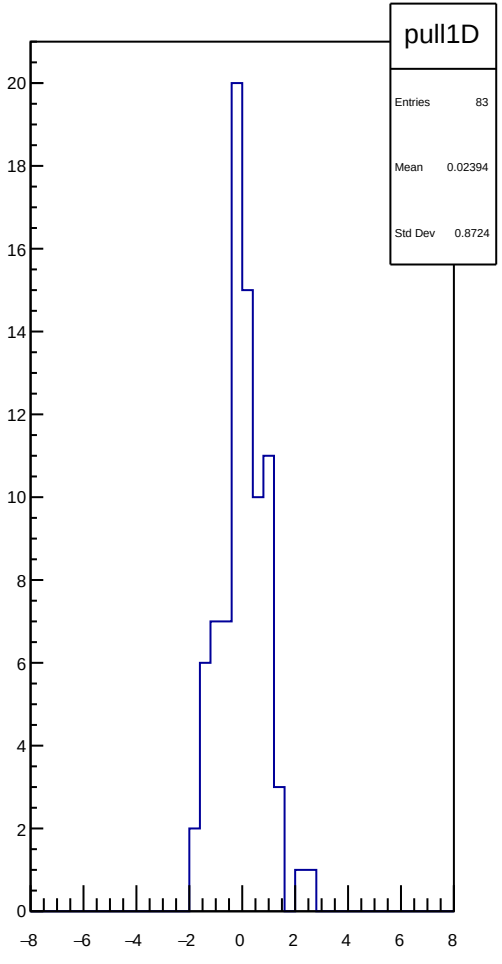

pull1D
Entries 83
Mean 0.02655
Std Dev 0.8678

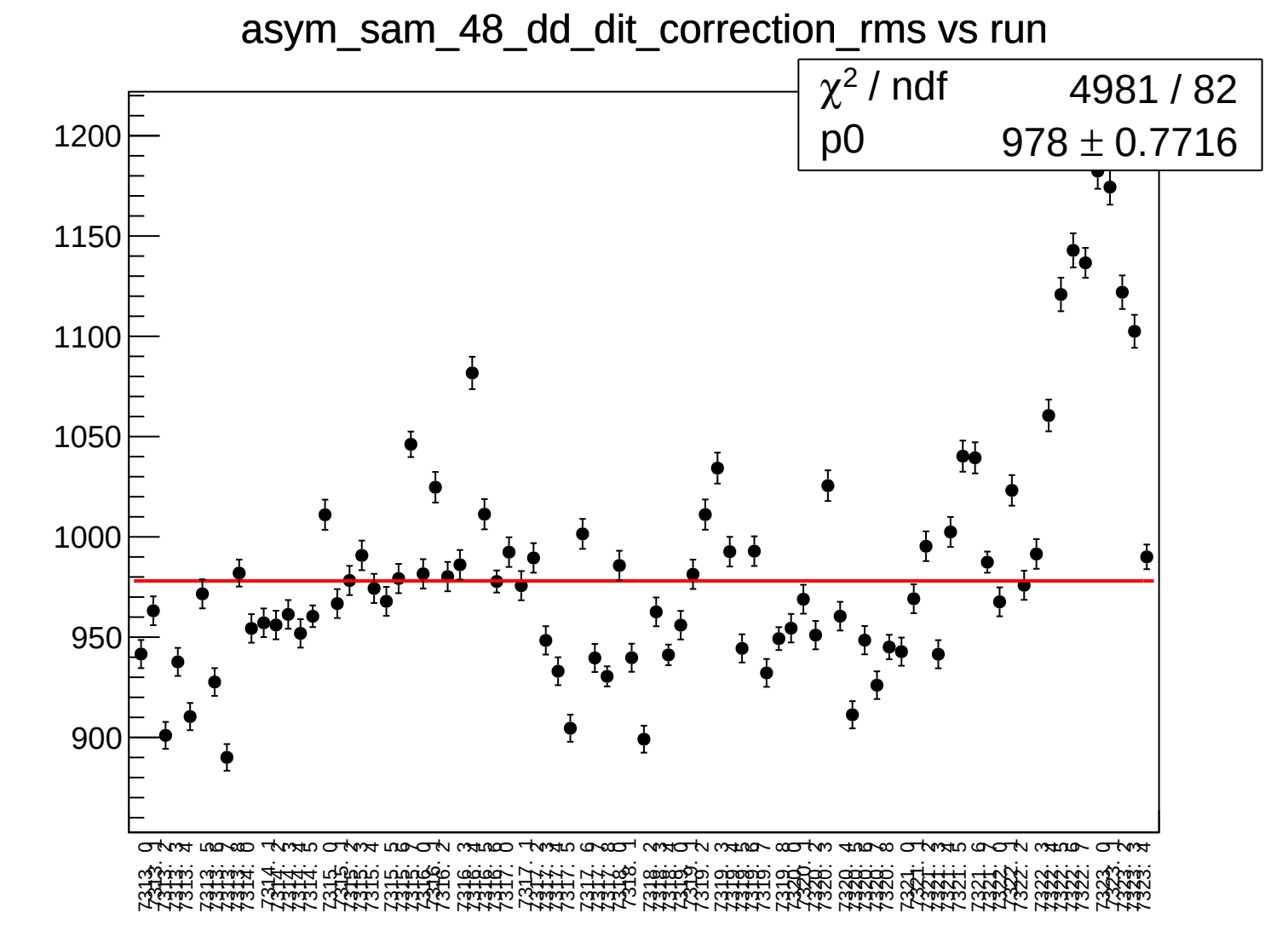

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7253 / 82
p0 932.9 ± 0.7365
1150
1100
1050
1000
950
900
850
800

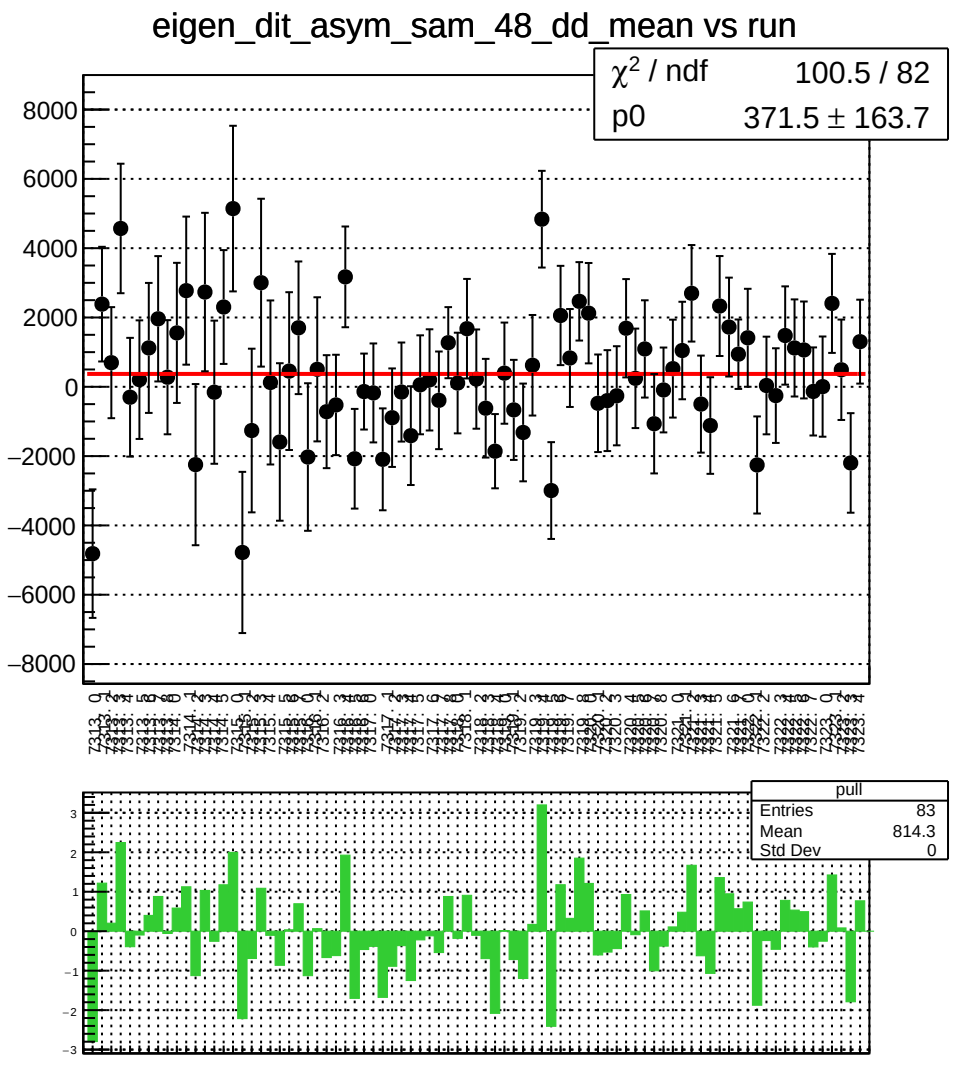

dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 100.5 / 82
p0 371.5 ± 163.7
pull
Entries 83
Mean 814.1
Std Dev 0
pull1D
Entries 83
Mean 0.0008602
Std Dev 1.101

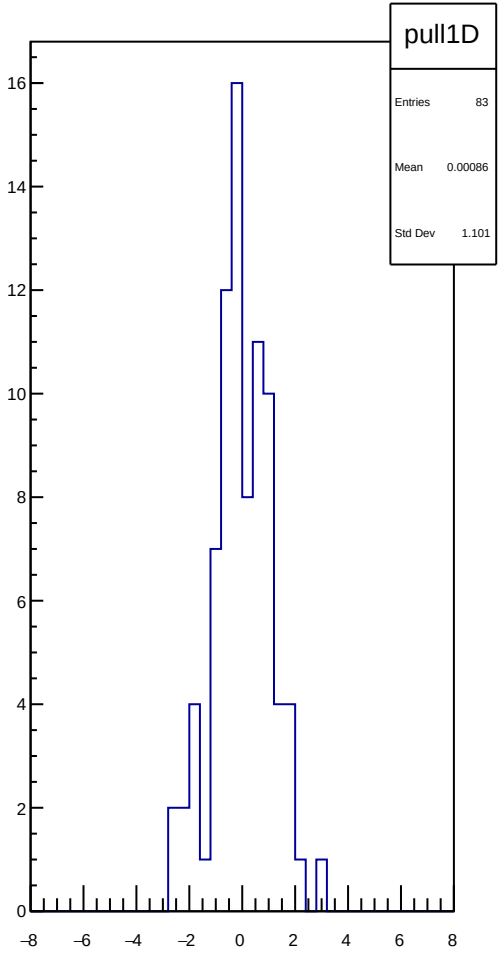

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.132e+04 / 82
p0 145 ± 0.1157
240
220
200
180
160
140
120

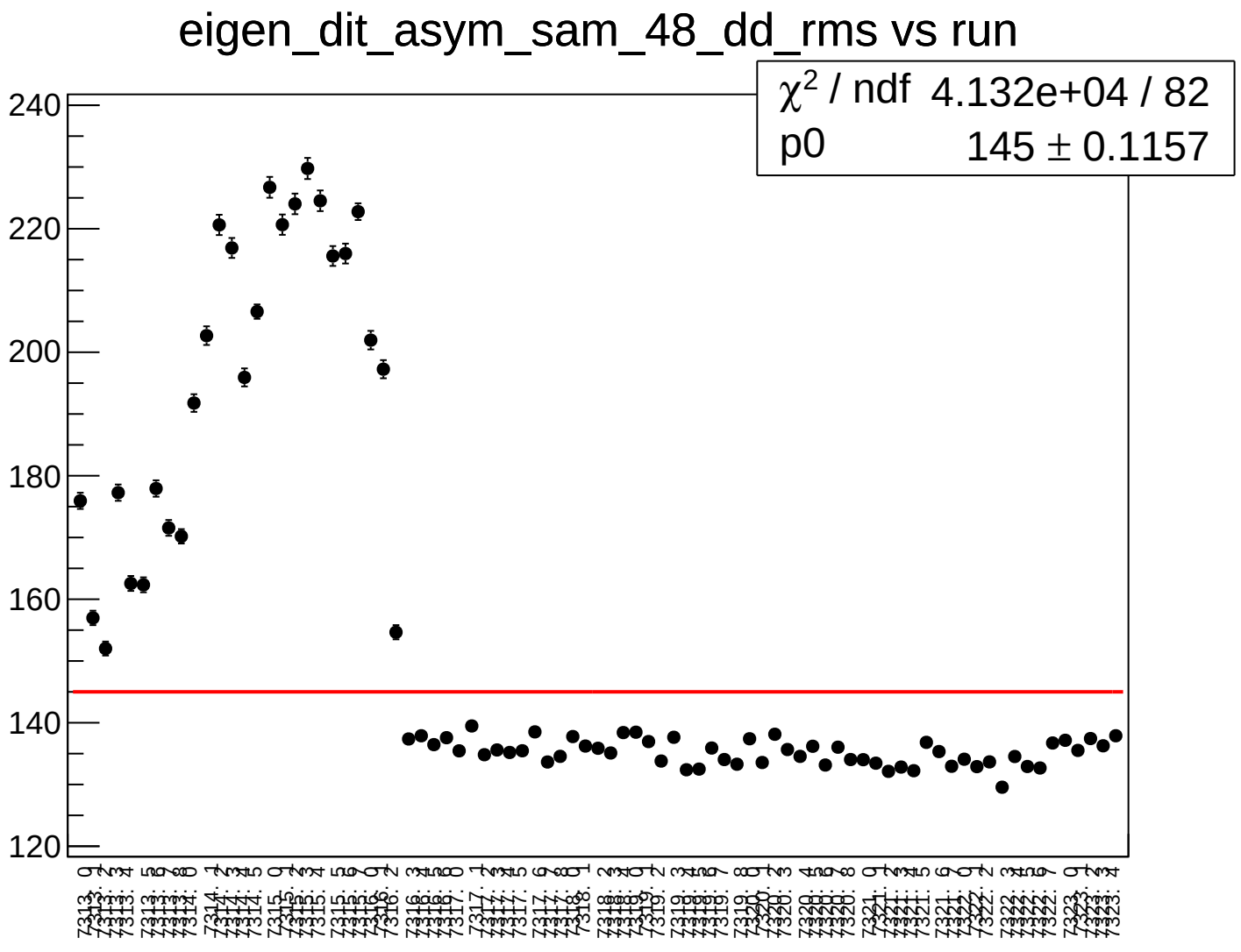

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 63.22 / 82
p0 157.8 ± 1091
pull
Entries 83
Mean 75.2
Std Dev 39.79

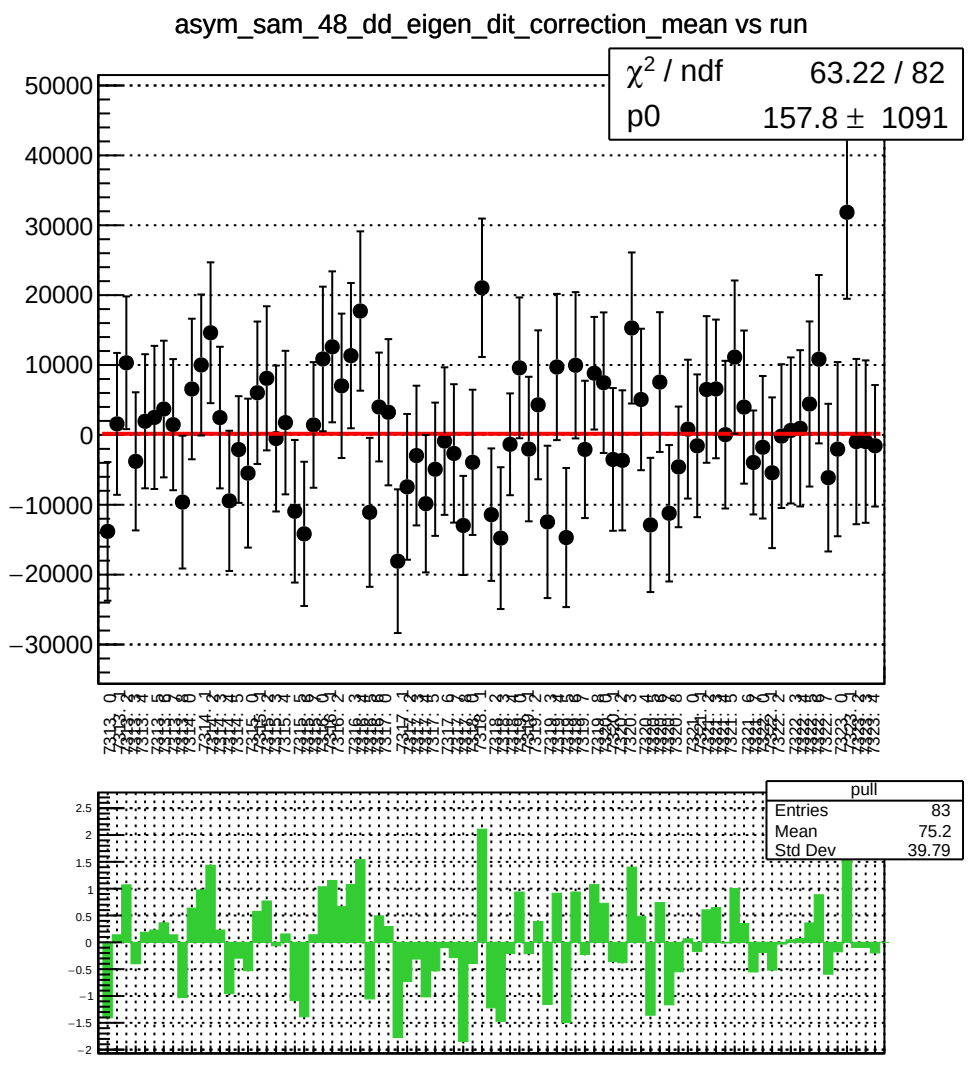

pull1D
Entries 83
Mean 0.02394
Std Dev 0.8724

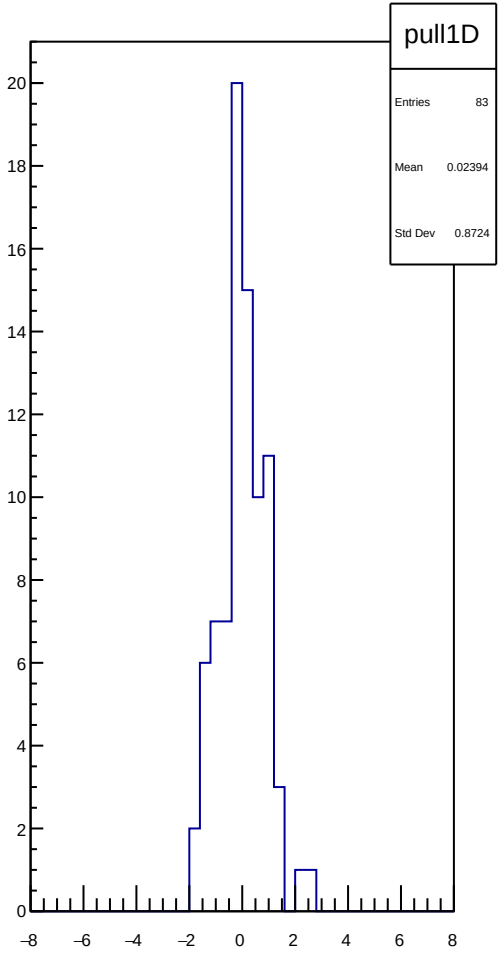

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 4981 / 82
p0 978 ± 0.7716
1200
1150
1100
1050
1000
950
900

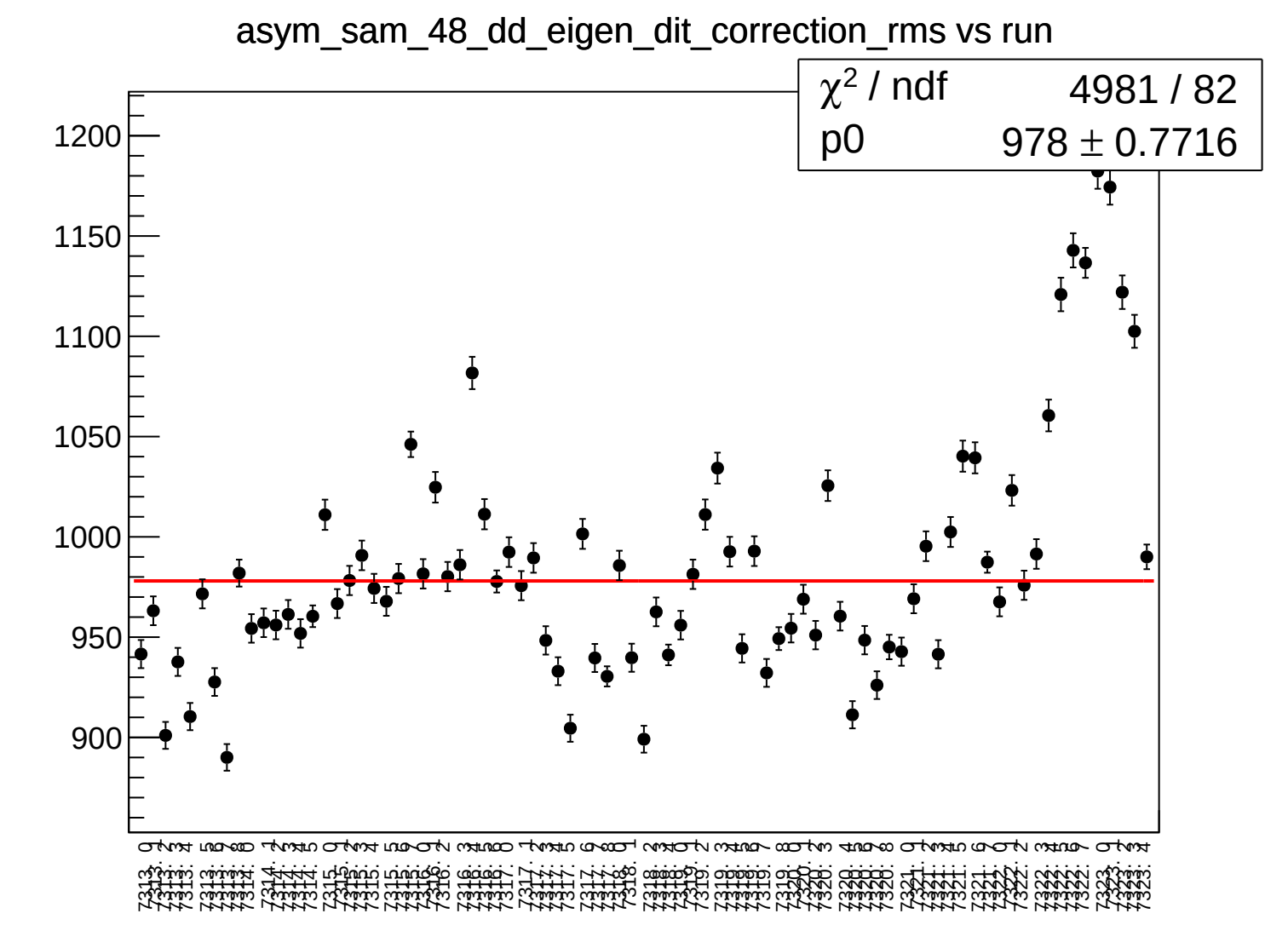

eigen_dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 100.5 / 82
p0 371.5 ± 163.7
pull
Entries 83
Mean 814.3
Std Dev 0

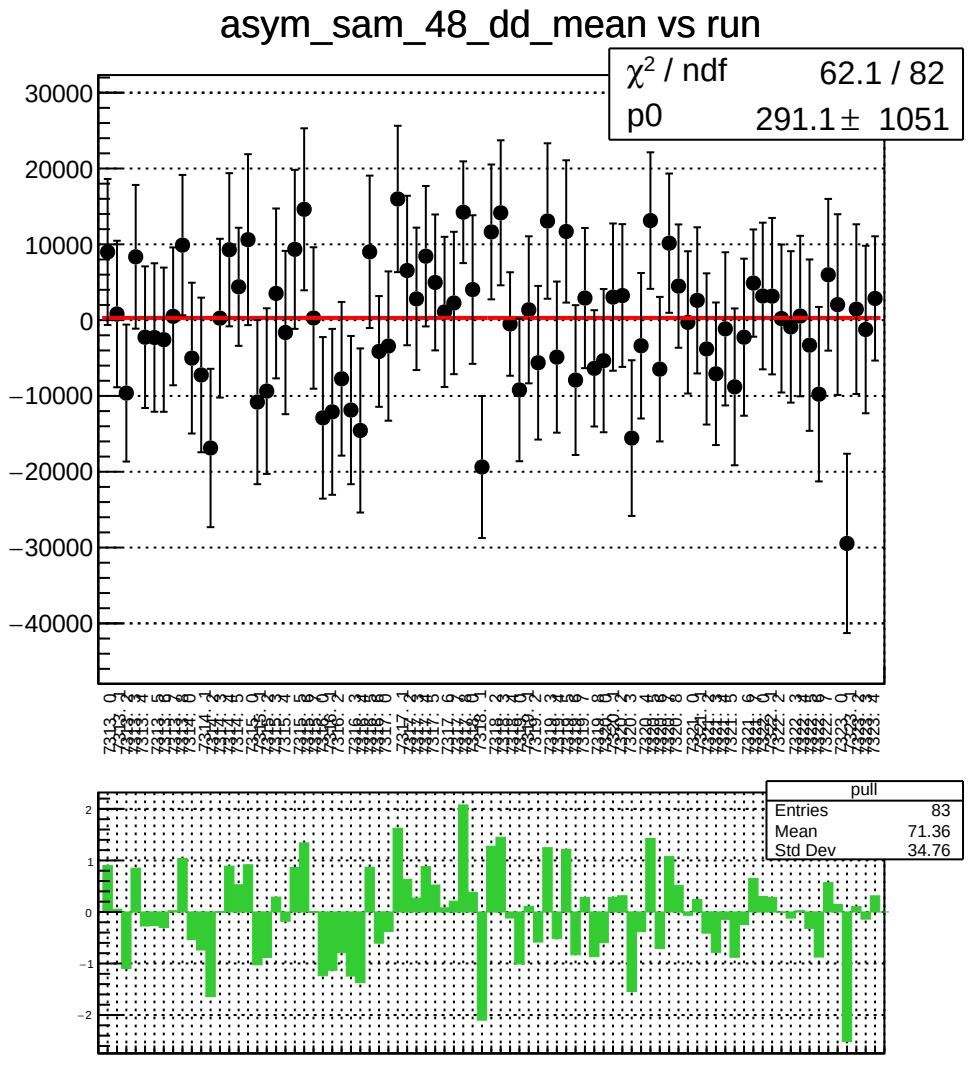

pull1D
Entries 83
Mean 0.00086
Std Dev 1.101

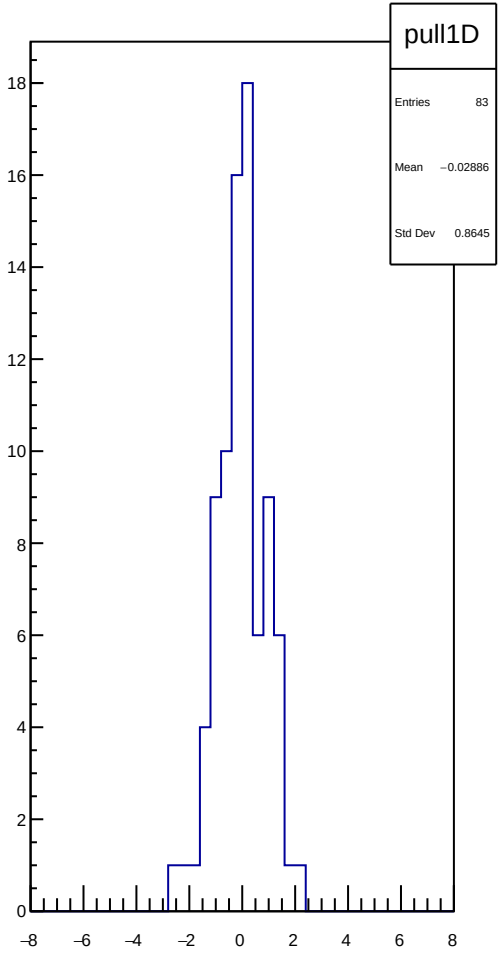

eigen_dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 4.132e+04 / 82
p0 145 ± 0.1157
240
220
200
180
160
140
120

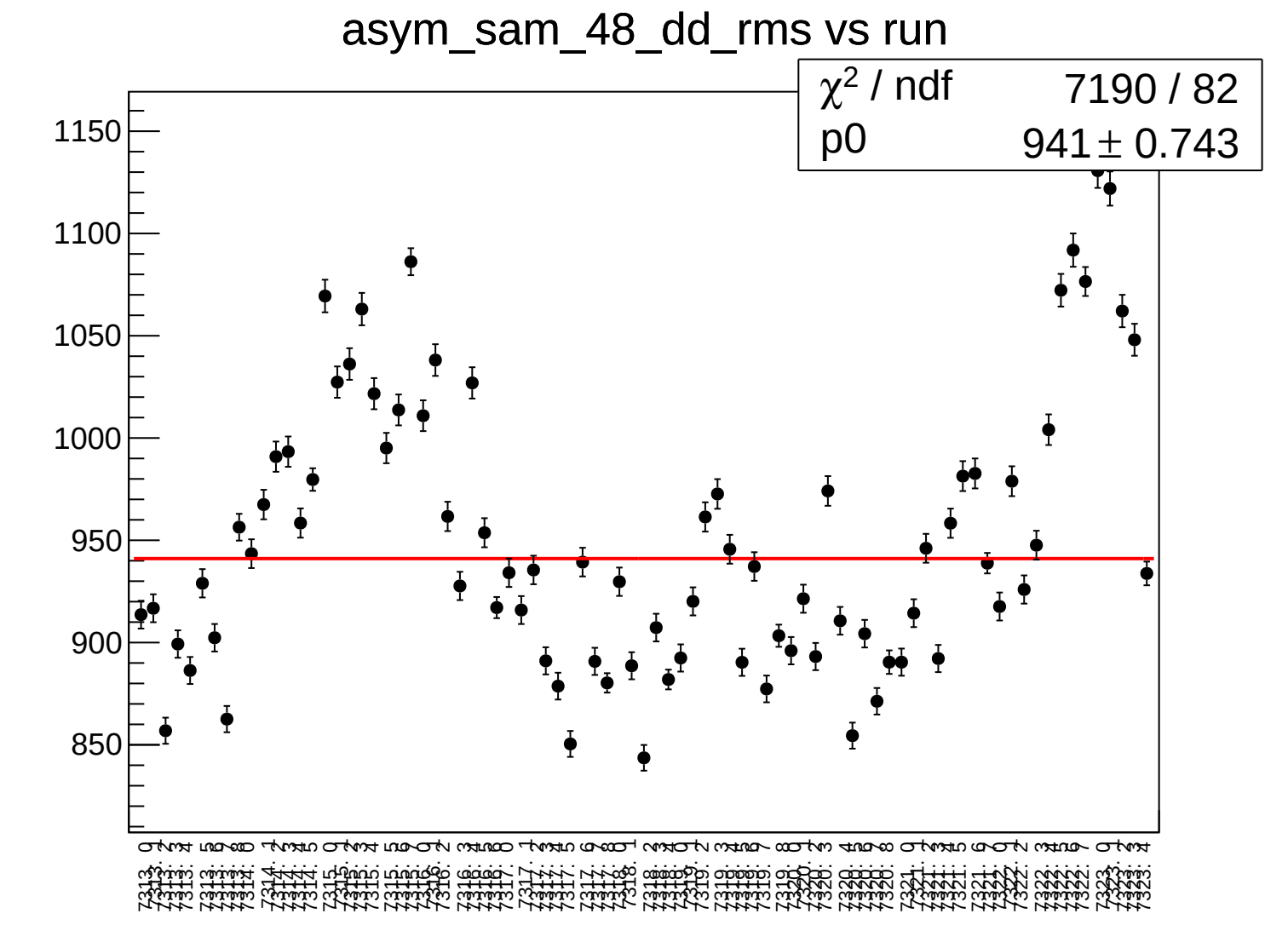

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 63.22 / 82
p0 157.8 ± 1091
pull
Entries 83
Mean 75.2
Std Dev 39.79

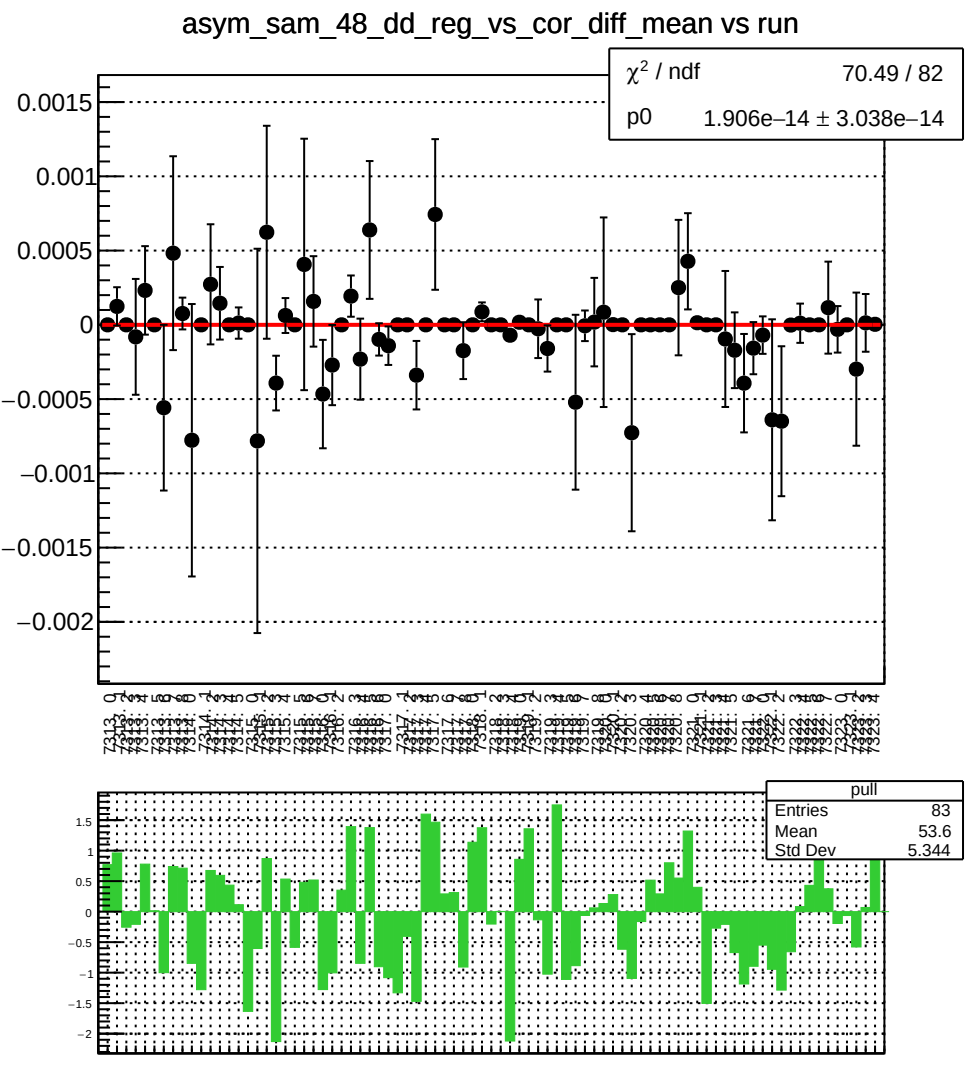

pull1D
Entries 83
Mean 0.02394
Std Dev 0.8724

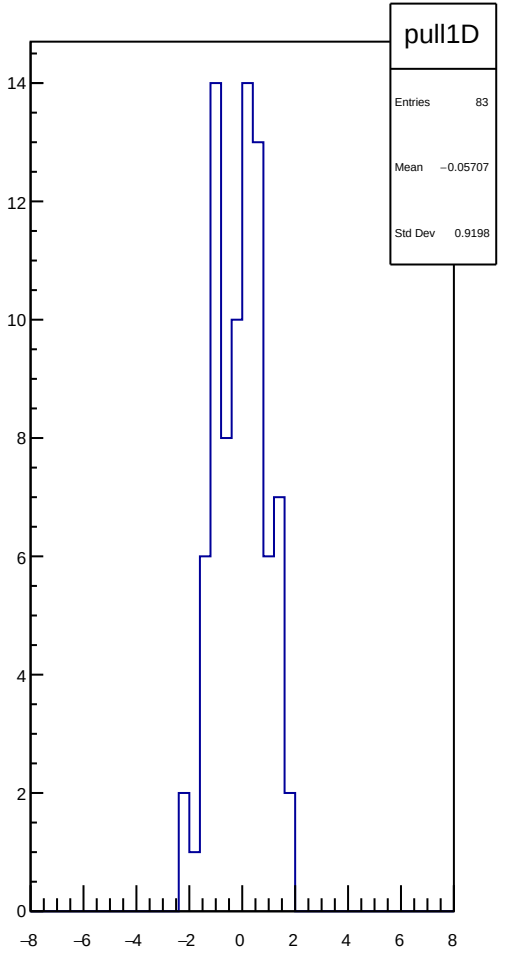

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4981 / 82
p0 978 ± 0.7716
1200
1150
1100
1050
1000
950
900

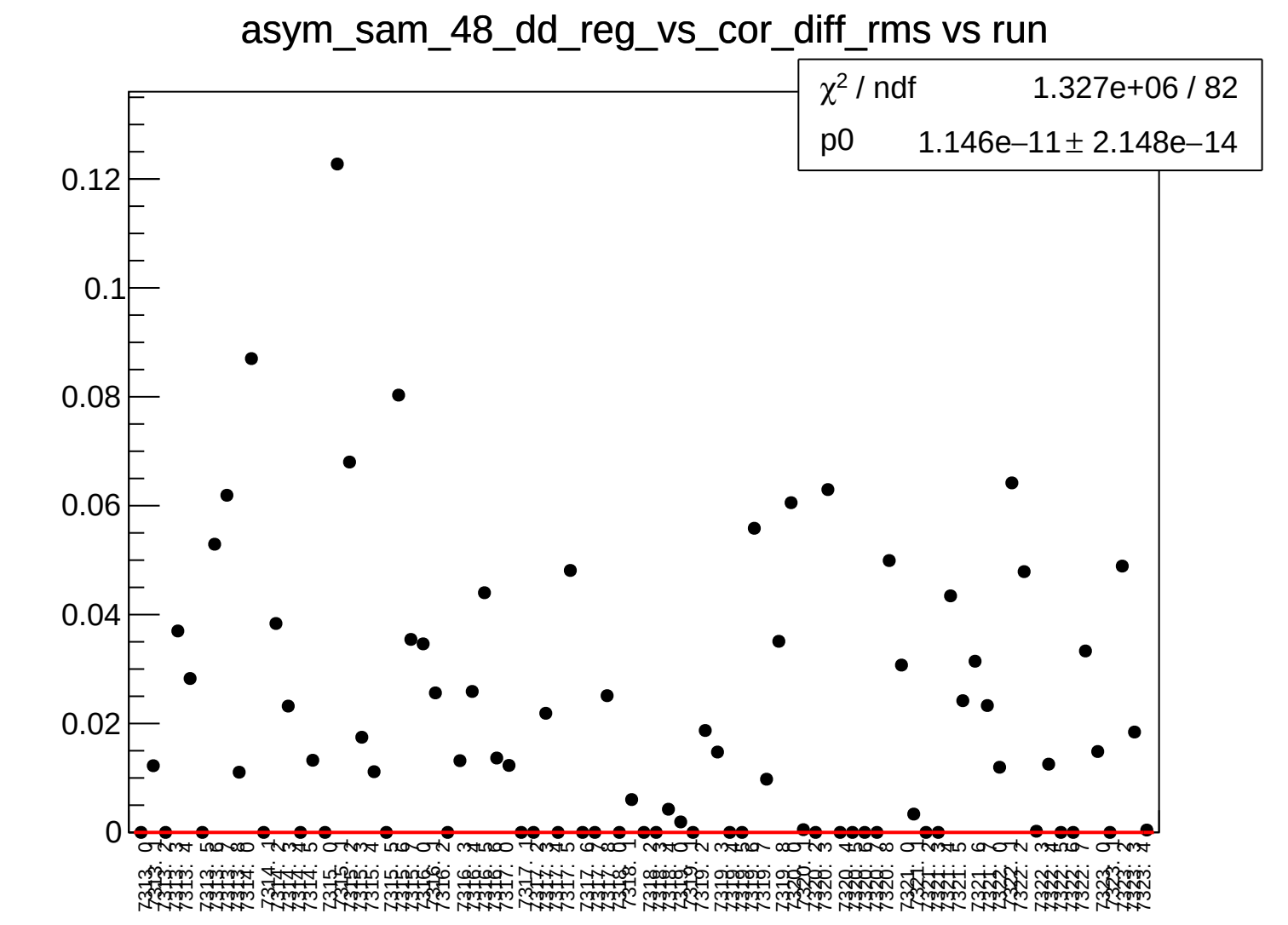

asym_sam_48_dd_mean vs run
χ² / ndf 62.1 / 82
p0 291.1 ± 1051
pull
Entries 83
Mean 71.36
Std Dev 34.76

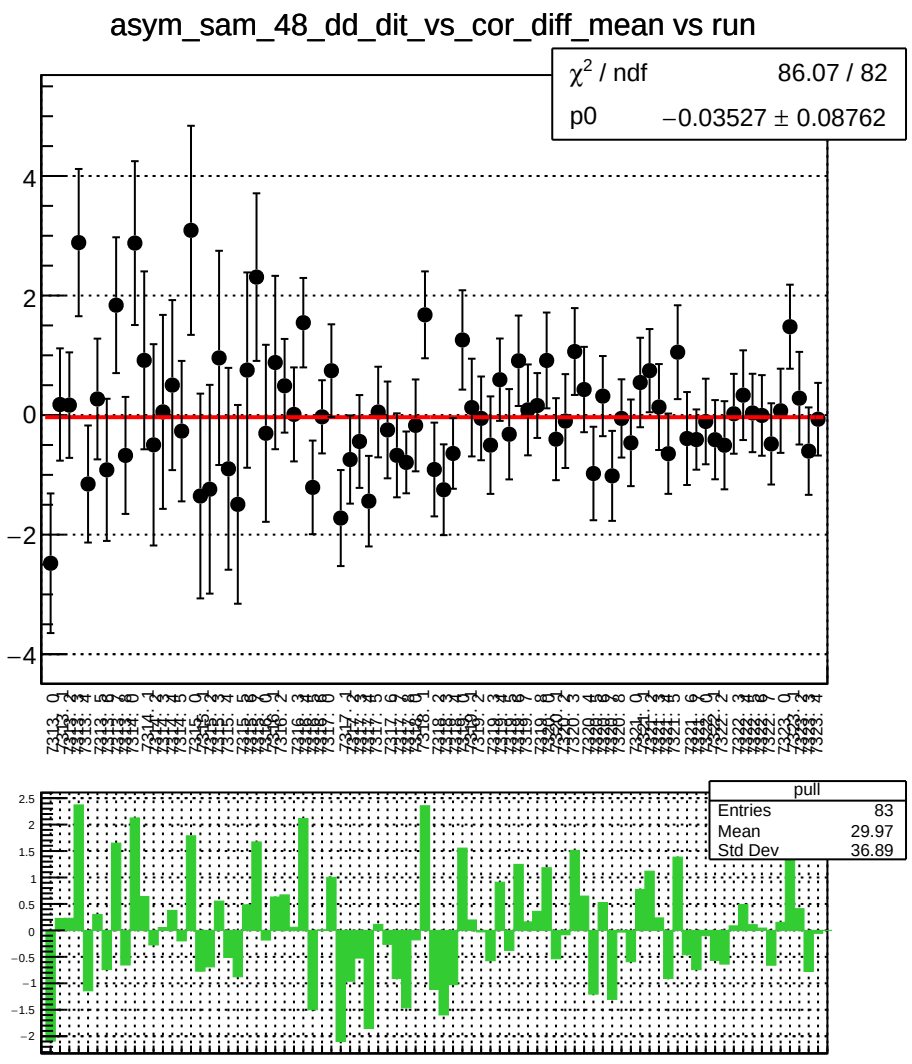

pull1D
Entries 83
Mean −0.02886
Std Dev 0.8645

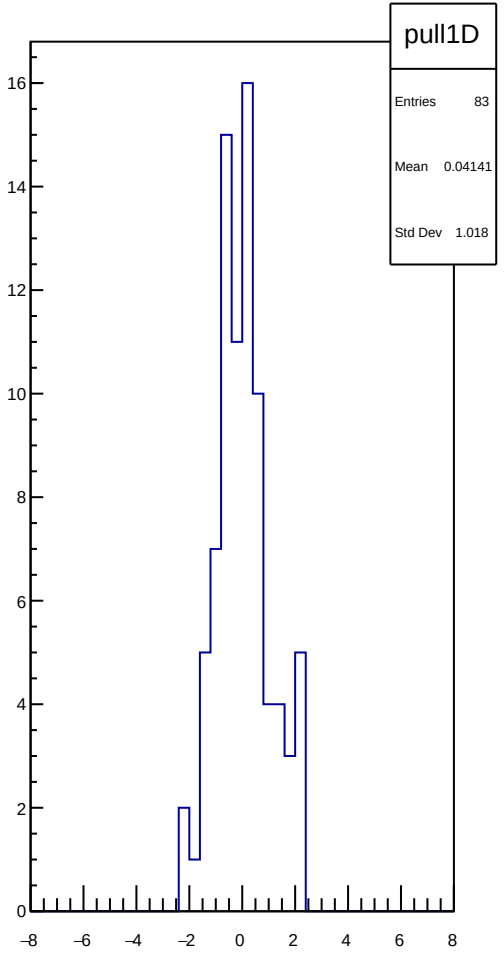

asym_sam_48_dd_rms vs run
χ² / ndf 7190 / 82
p0 941 ± 0.743
1150
1100
1050
1000
950
900
850

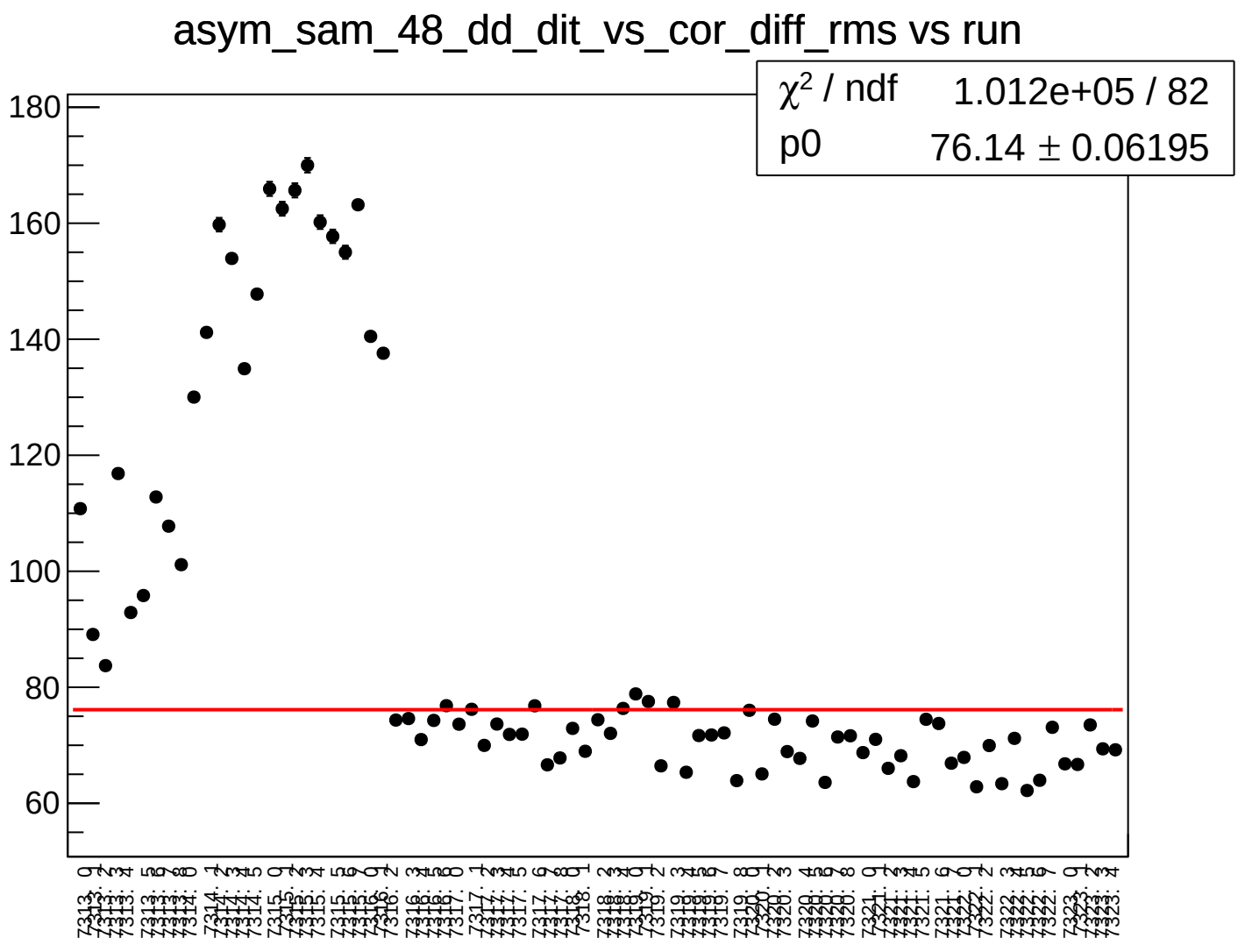

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.49 / 82
p0 1.906e−14 ± 3.038e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 83
Mean 53.6
Std Dev 5.344
1.5
1
0.5
0
−0.5
−1
−1.5
−2

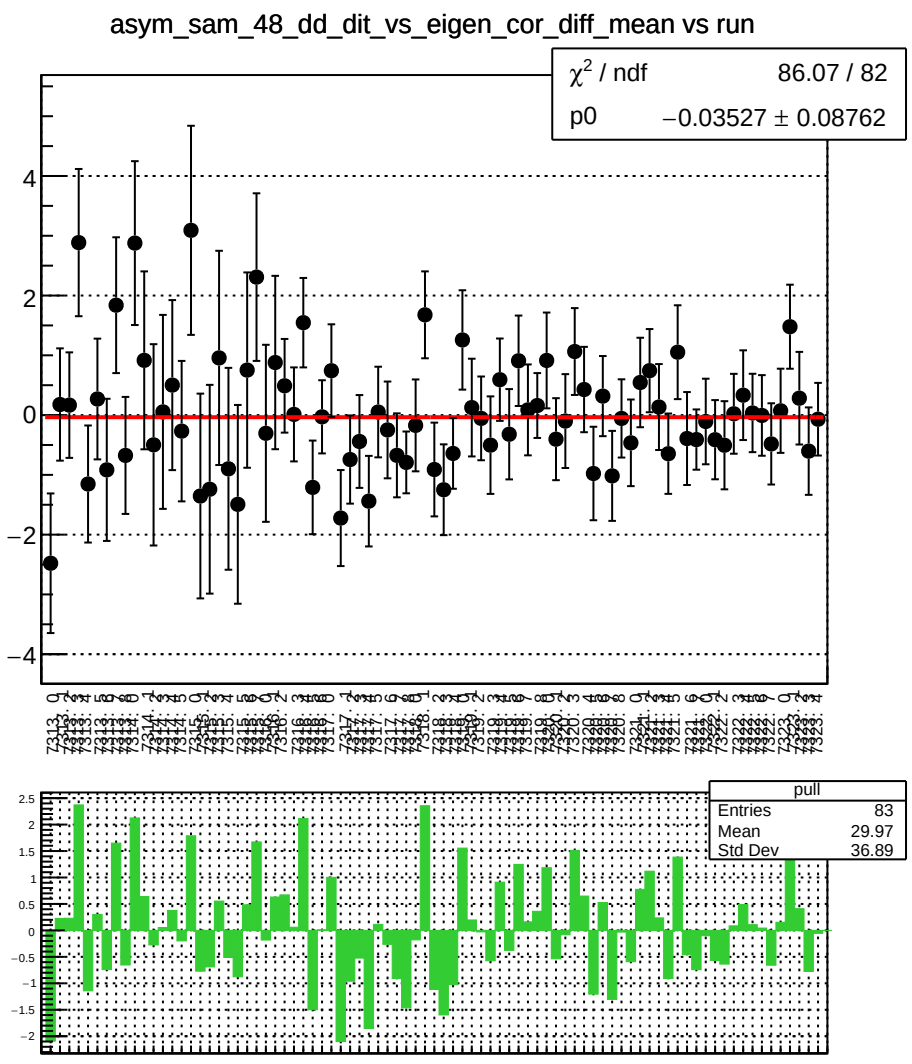

pull1D
Entries 83
Mean −0.05707
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

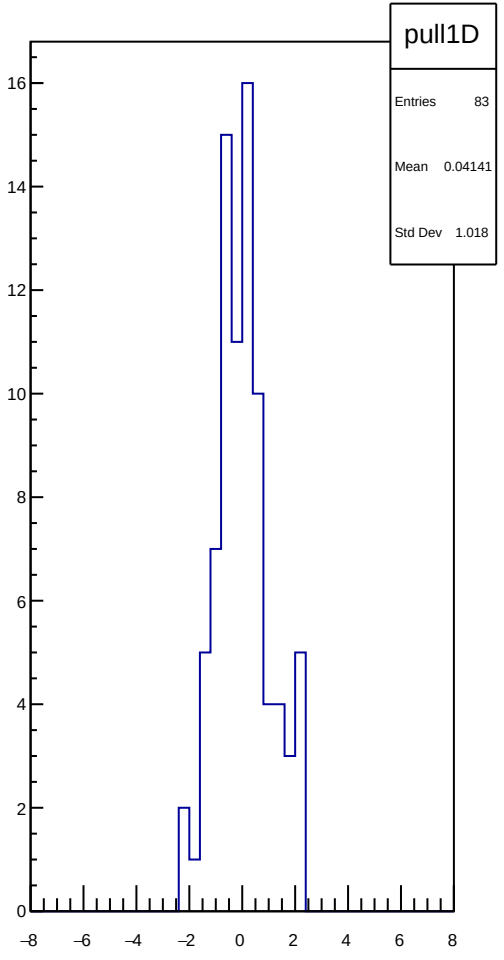

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.327e+06 / 82
p0 1.146e−11 ± 2.148e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

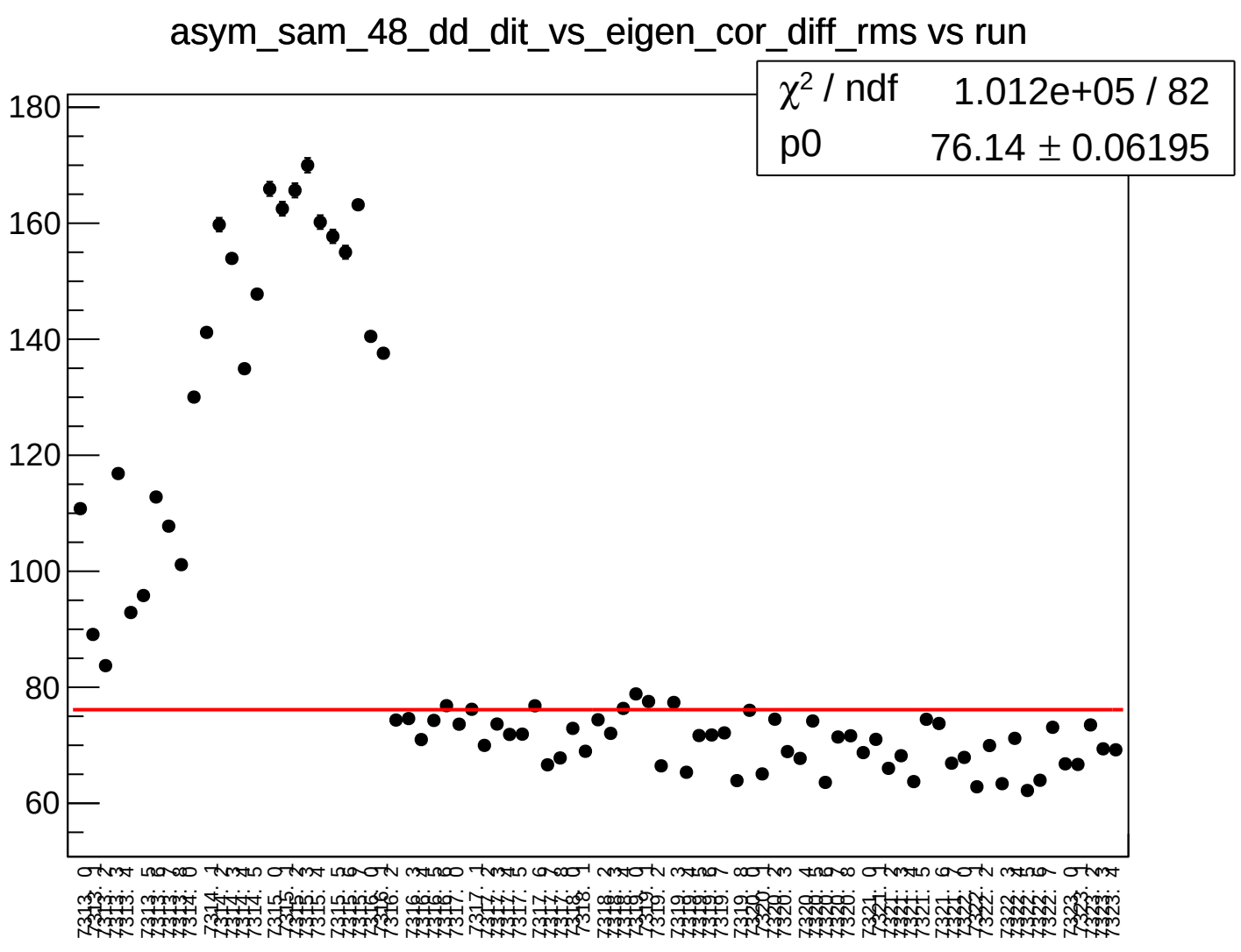

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 82
p0 −0.03527 ± 0.08762
pull
Entries 83
Mean 29.97
Std Dev 36.89

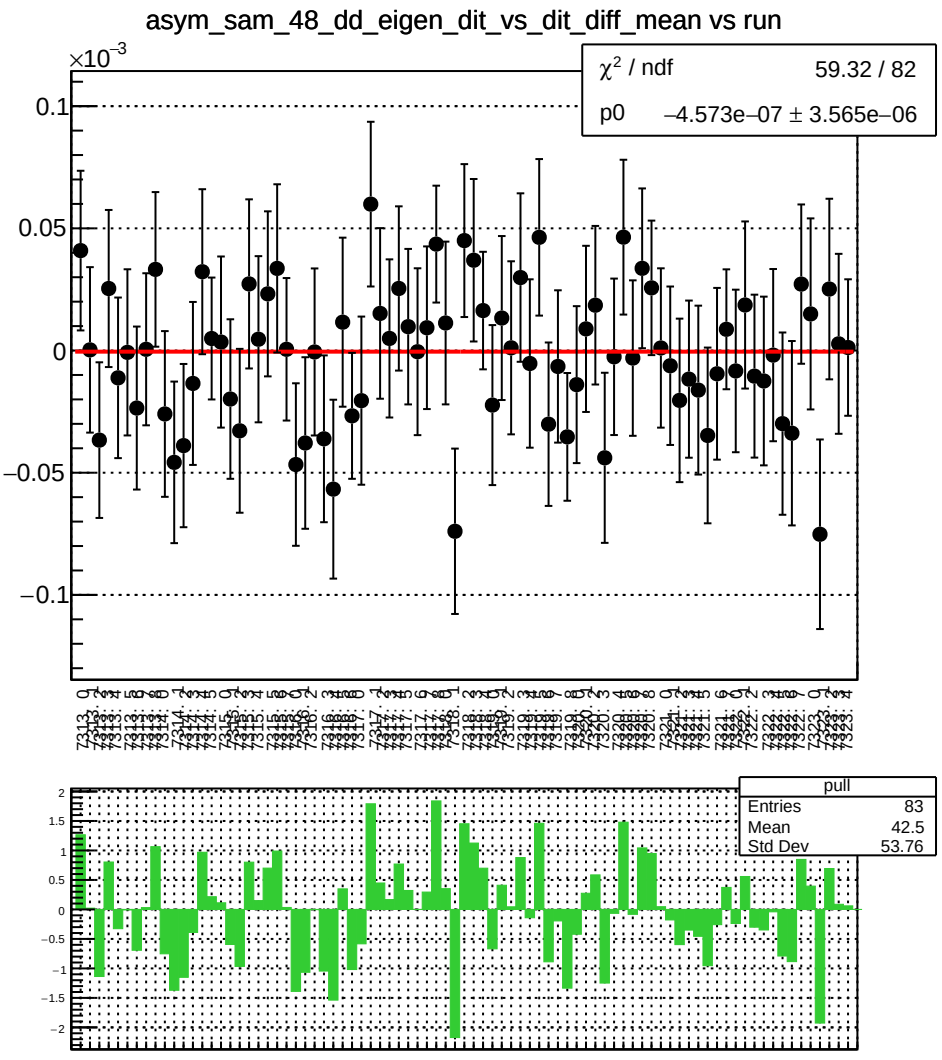

pull1D
Entries 83
Mean 0.04141
Std Dev 1.018

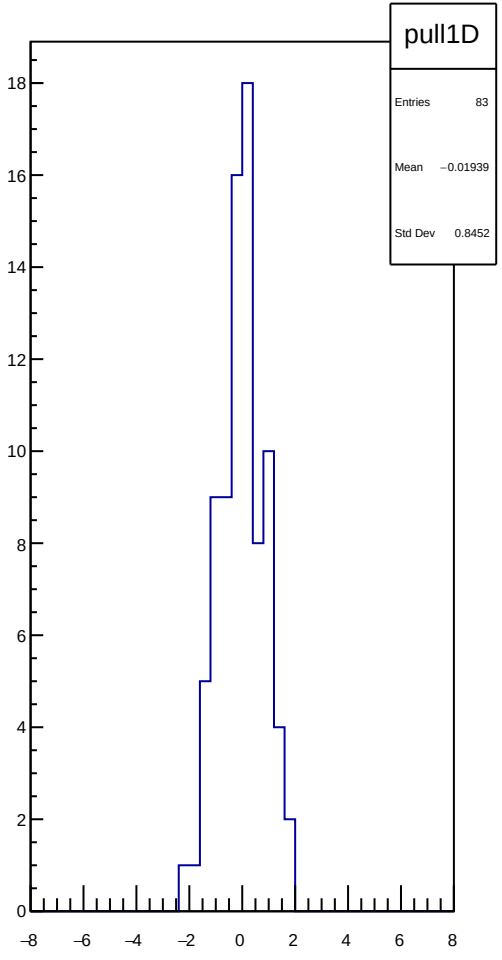

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.012e+05 / 82
p0 76.14 ± 0.06195
180
160
140
120
100
80
60

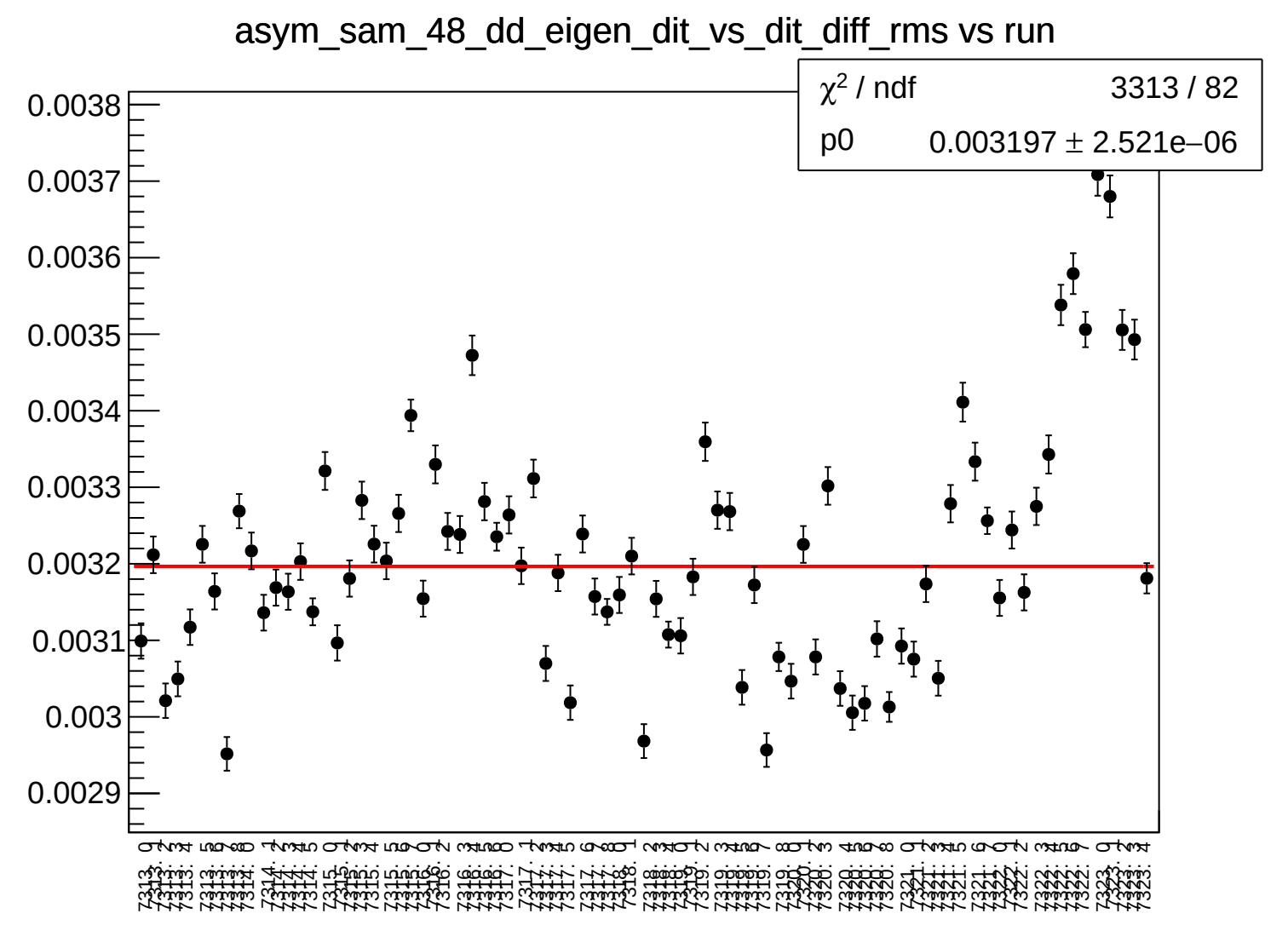

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 82
p0 −0.03527 ± 0.08762
pull
Entries 83
Mean 29.97
Std Dev 36.89

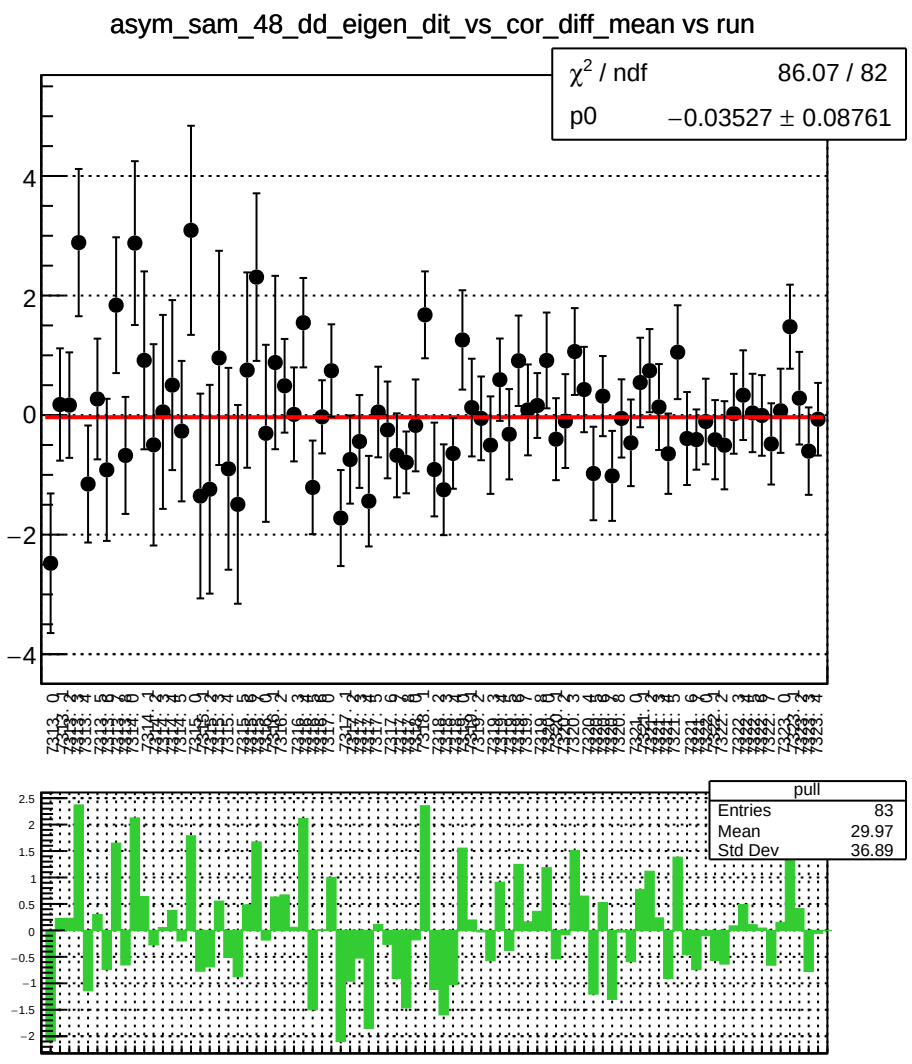

pull1D
Entries 83
Mean 0.04141
Std Dev 1.018

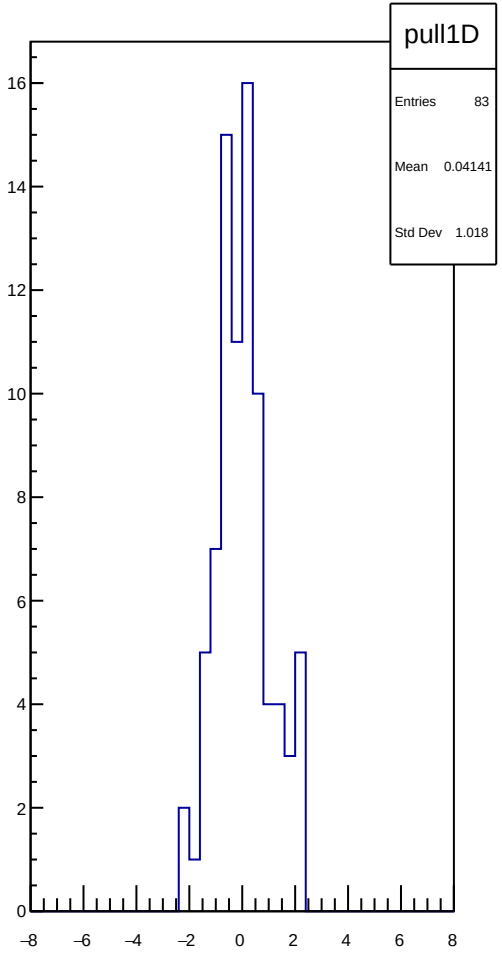

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 82
p0 76.14 ± 0.06195
180
160
140
120
100
80
60

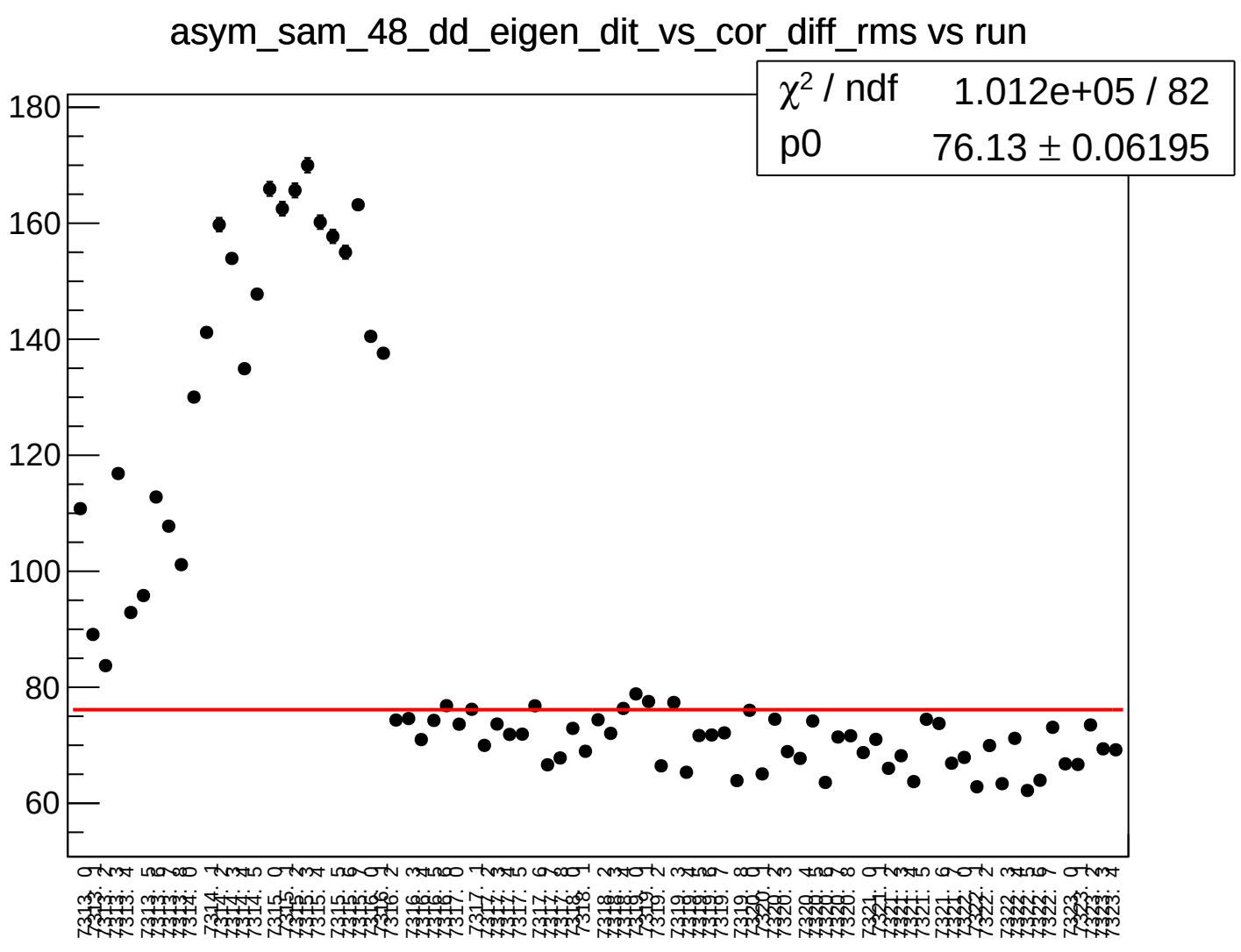

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.32 / 82
p0 −4.573e−07 ± 3.565e−06
pull
Entries 83
Mean 42.5
Std Dev 53.76

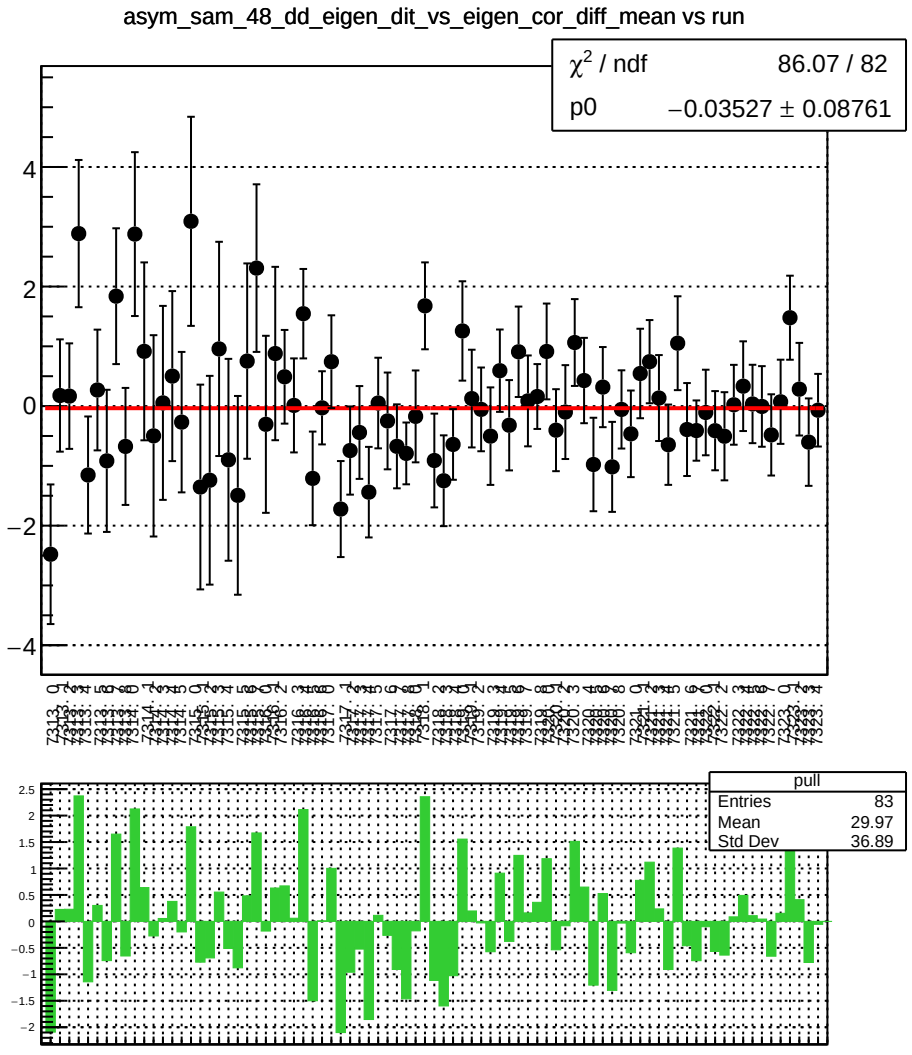

pull1D
Entries 83
Mean −0.01939
Std Dev 0.8452

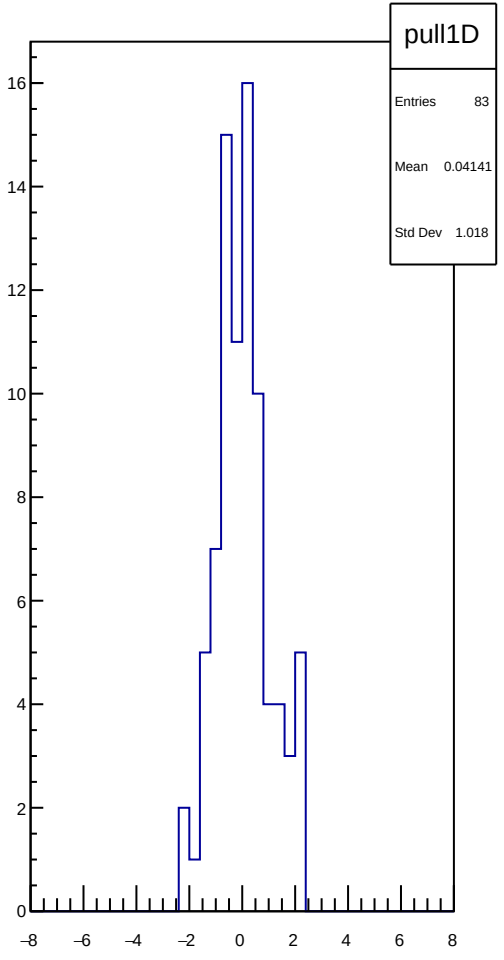

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3313 / 82
p0 0.003197 ± 2.521e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

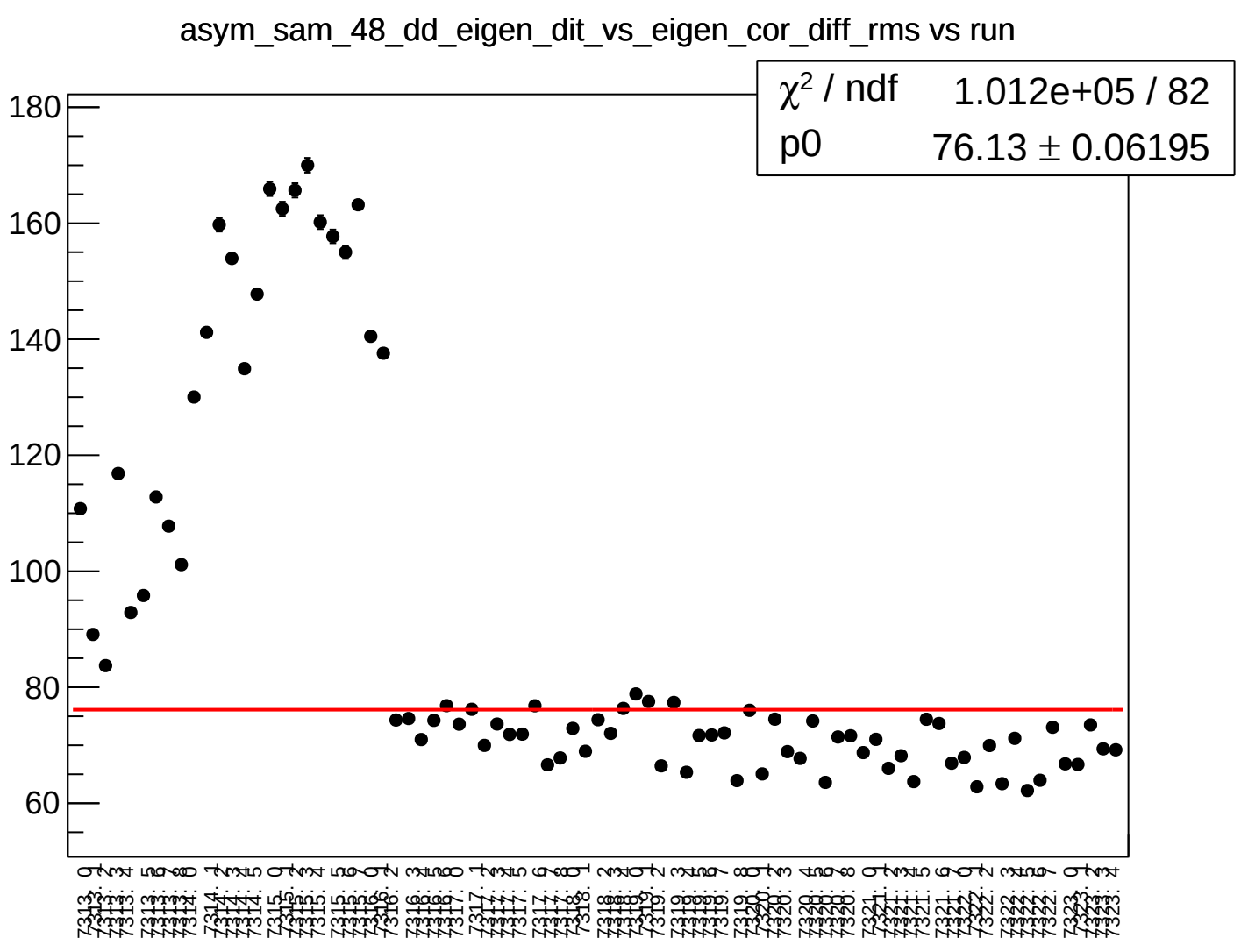

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 82
p0 −0.03527 ± 0.08761
pull
Entries 83
Mean 29.97
Std Dev 36.89

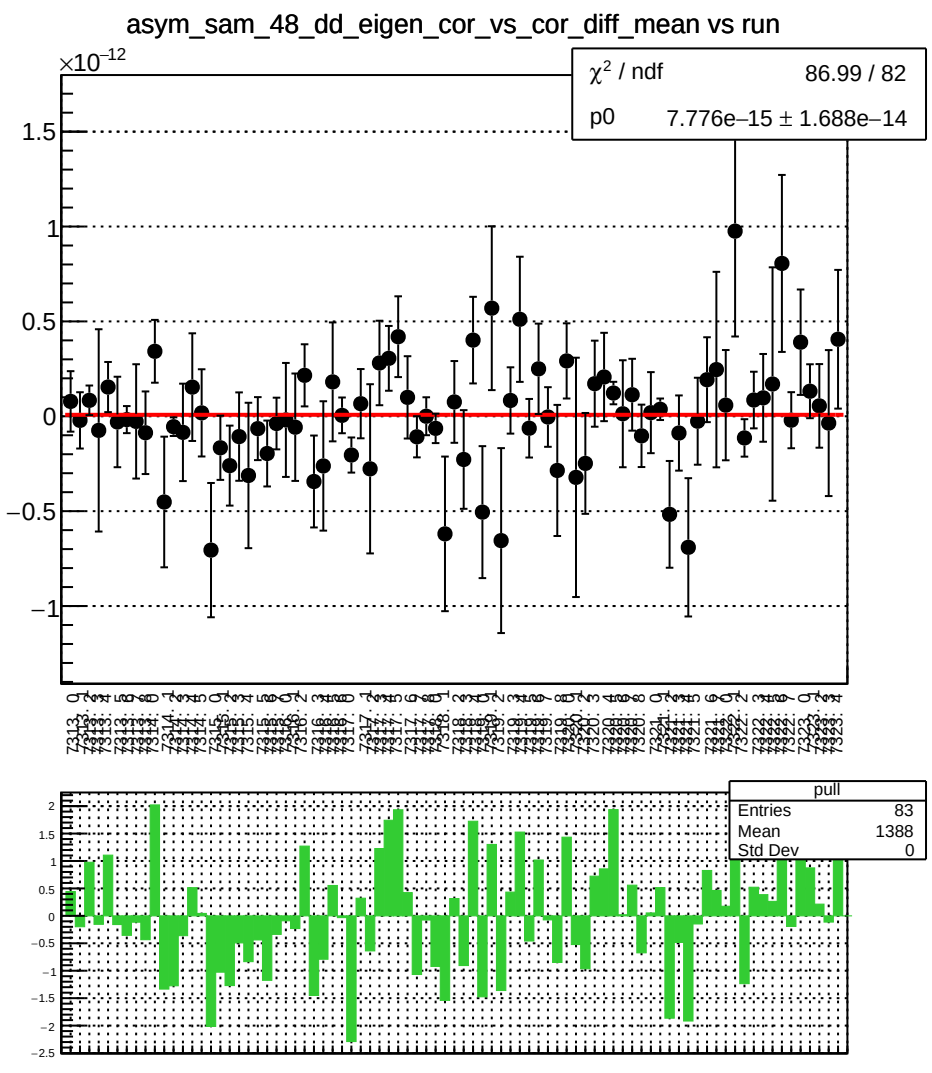

pull1D
Entries 83
Mean 0.04141
Std Dev 1.018

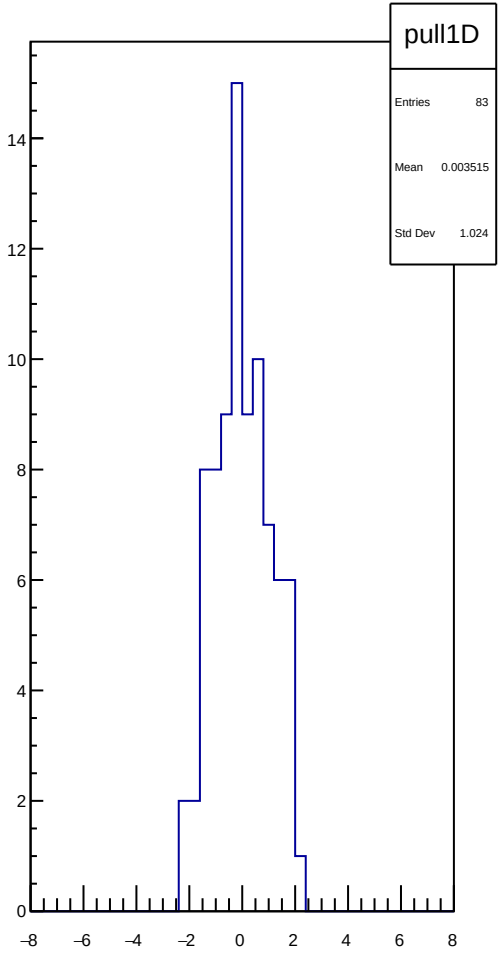

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 82
p0 76.13 ± 0.06195
180
160
140
120
100
80
60

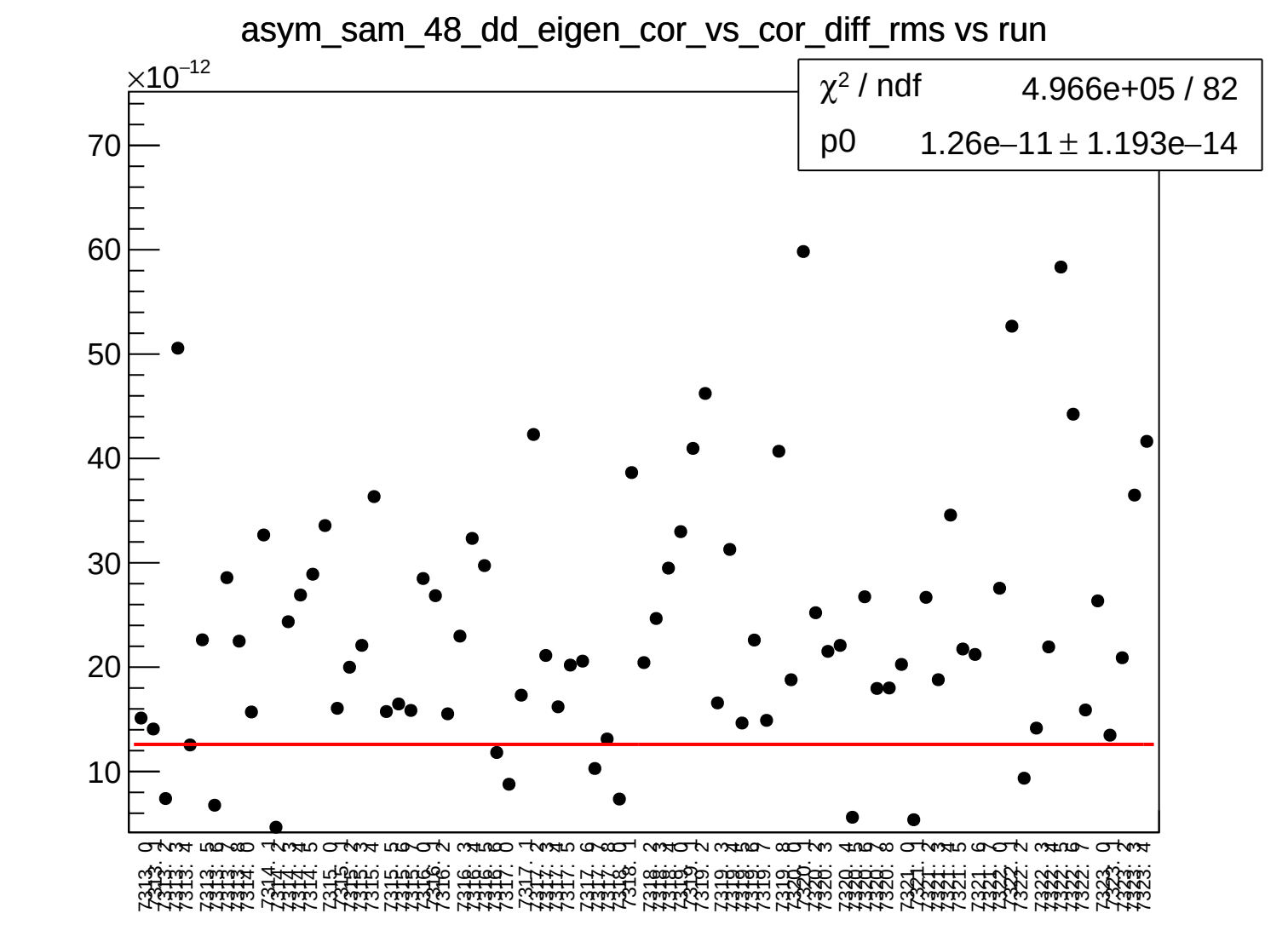

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 82
p0 −0.03527 ± 0.08761
pull
Entries 83
Mean 29.97
Std Dev 36.89

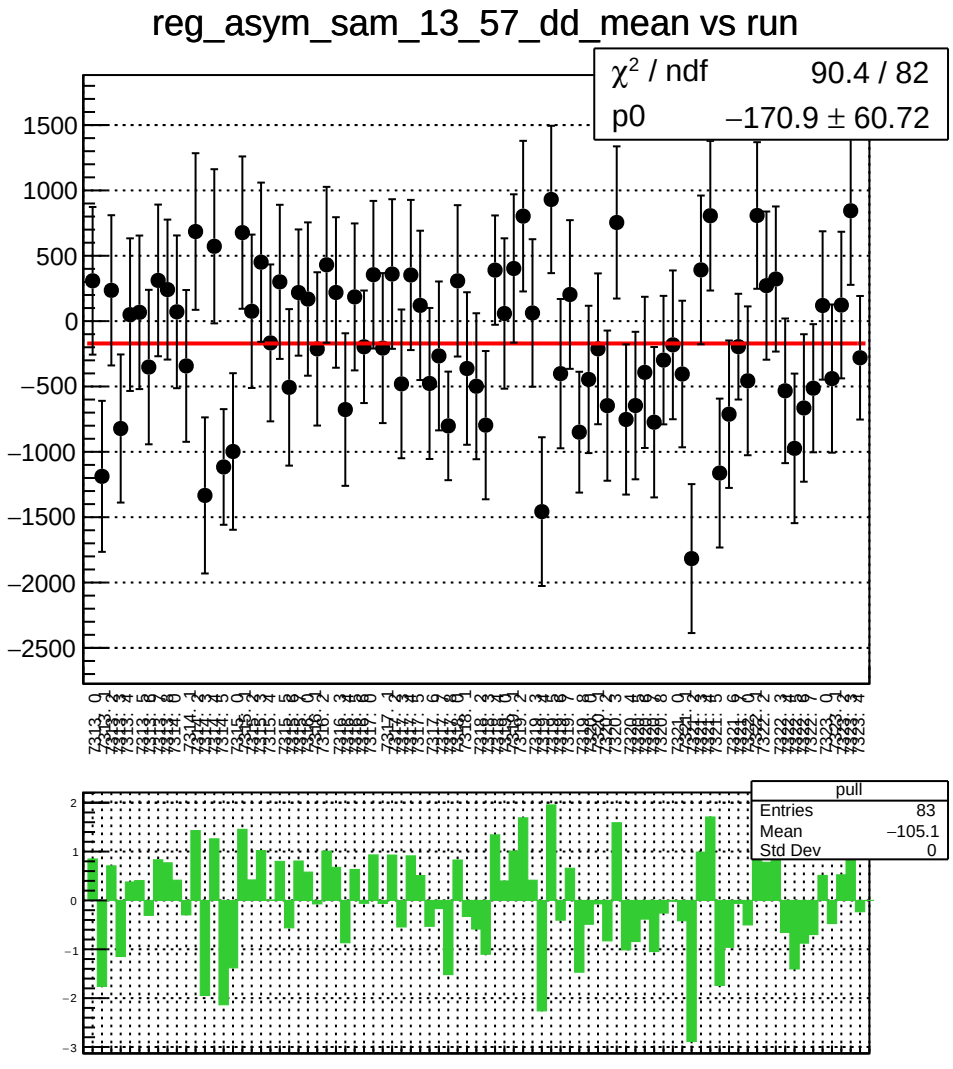

pull1D
Entries 83
Mean 0.04141
Std Dev 1.018

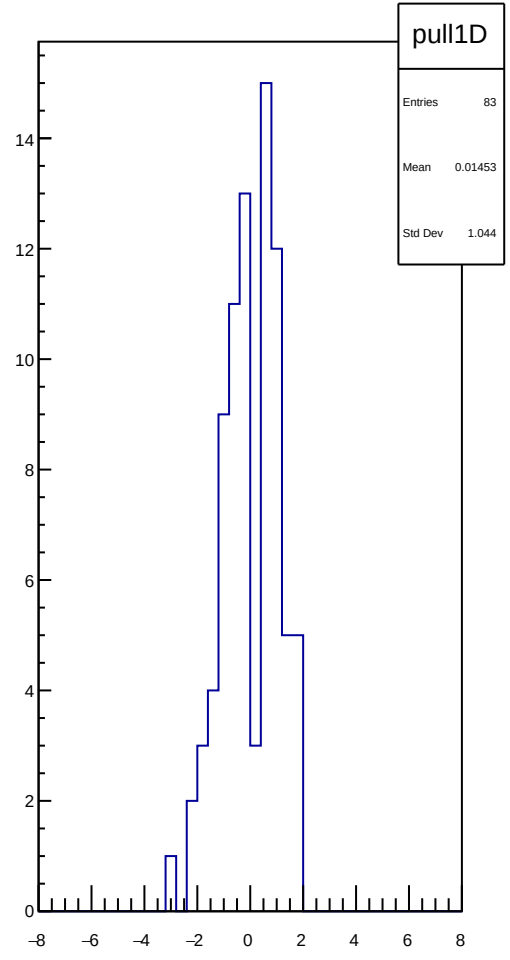

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 82
p0 76.13 ± 0.06195
180
160
140
120
100
80
60

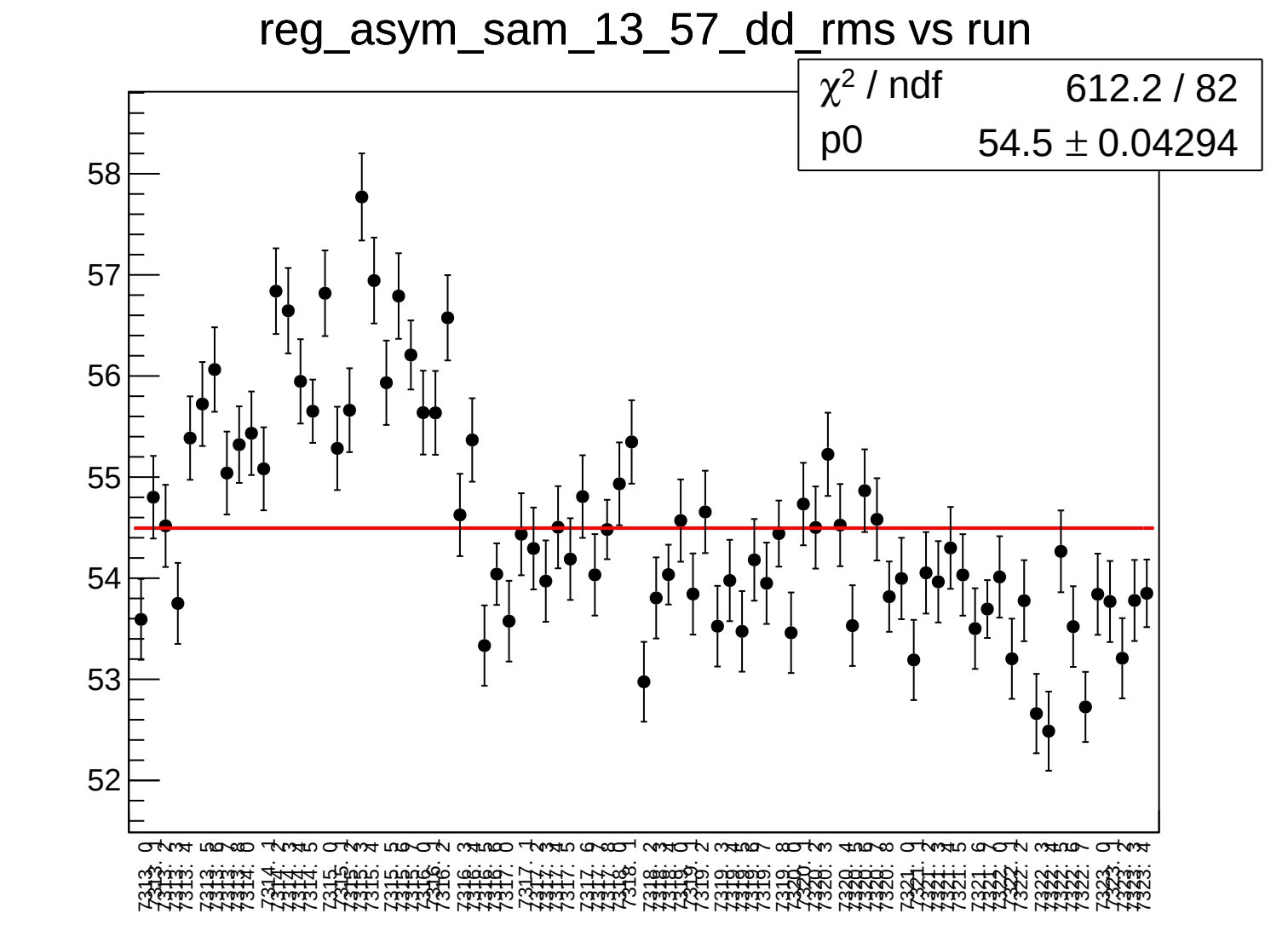

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.99 / 82
p0 7.776e−15 ± 1.688e−14
pull
Entries 83
Mean 1388
Std Dev 0

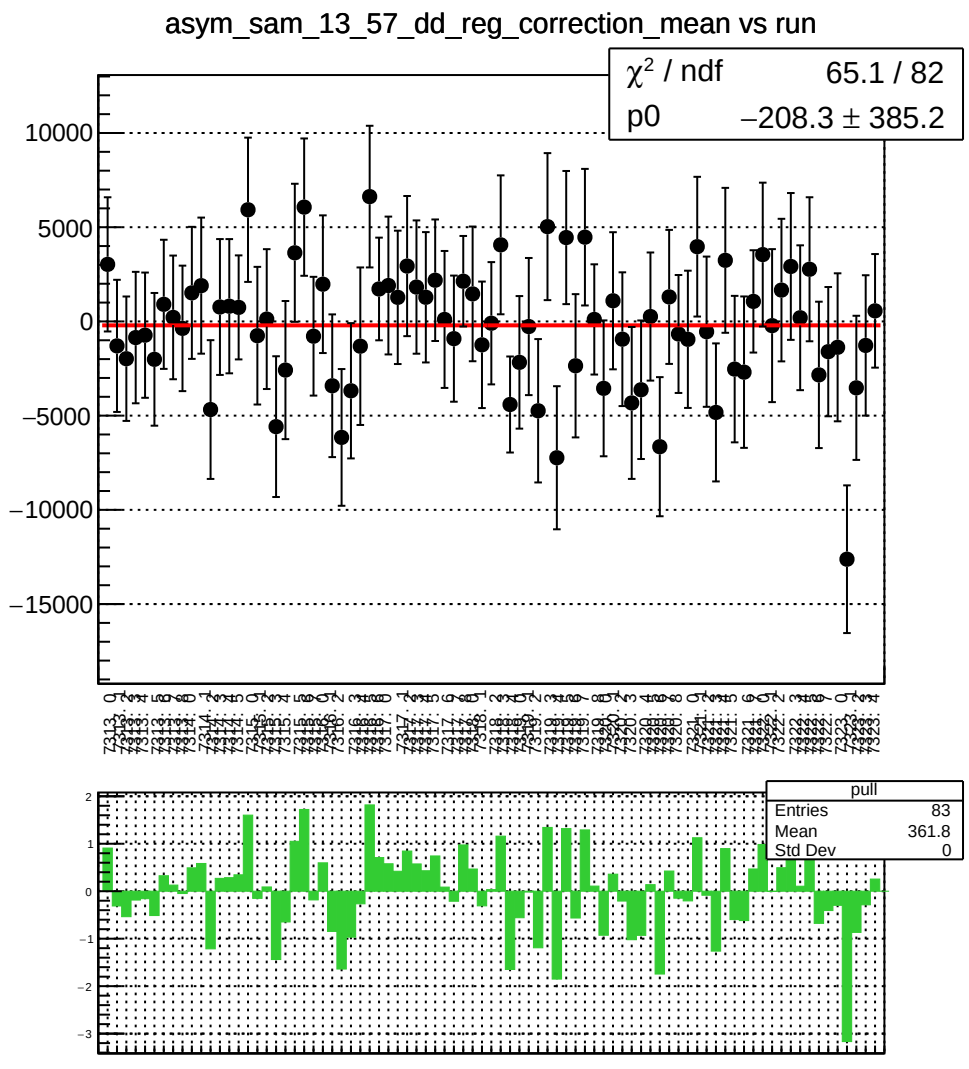

pull1D
Entries 83
Mean 0.003515
Std Dev 1.024

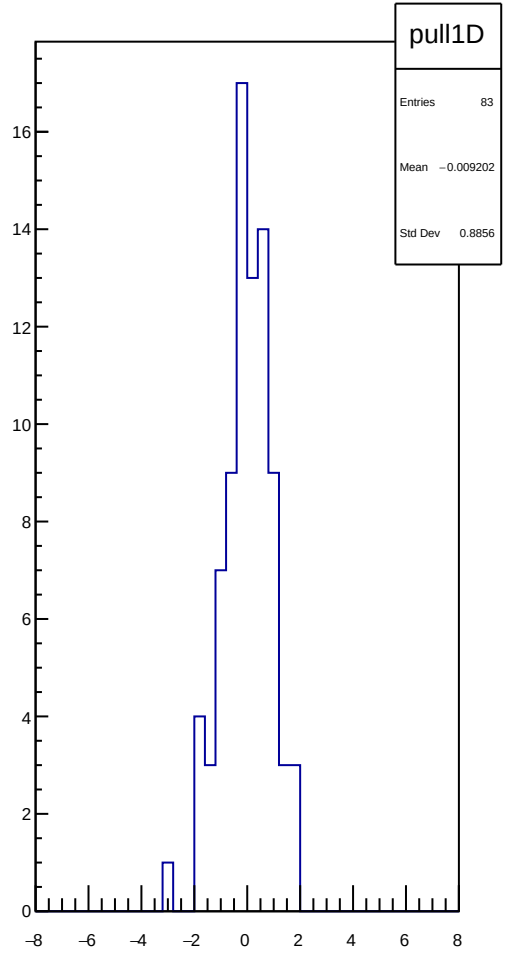

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.966e+05 / 82
p0 1.26e−11 ± 1.193e−14
70
60
50
40
30
20
10

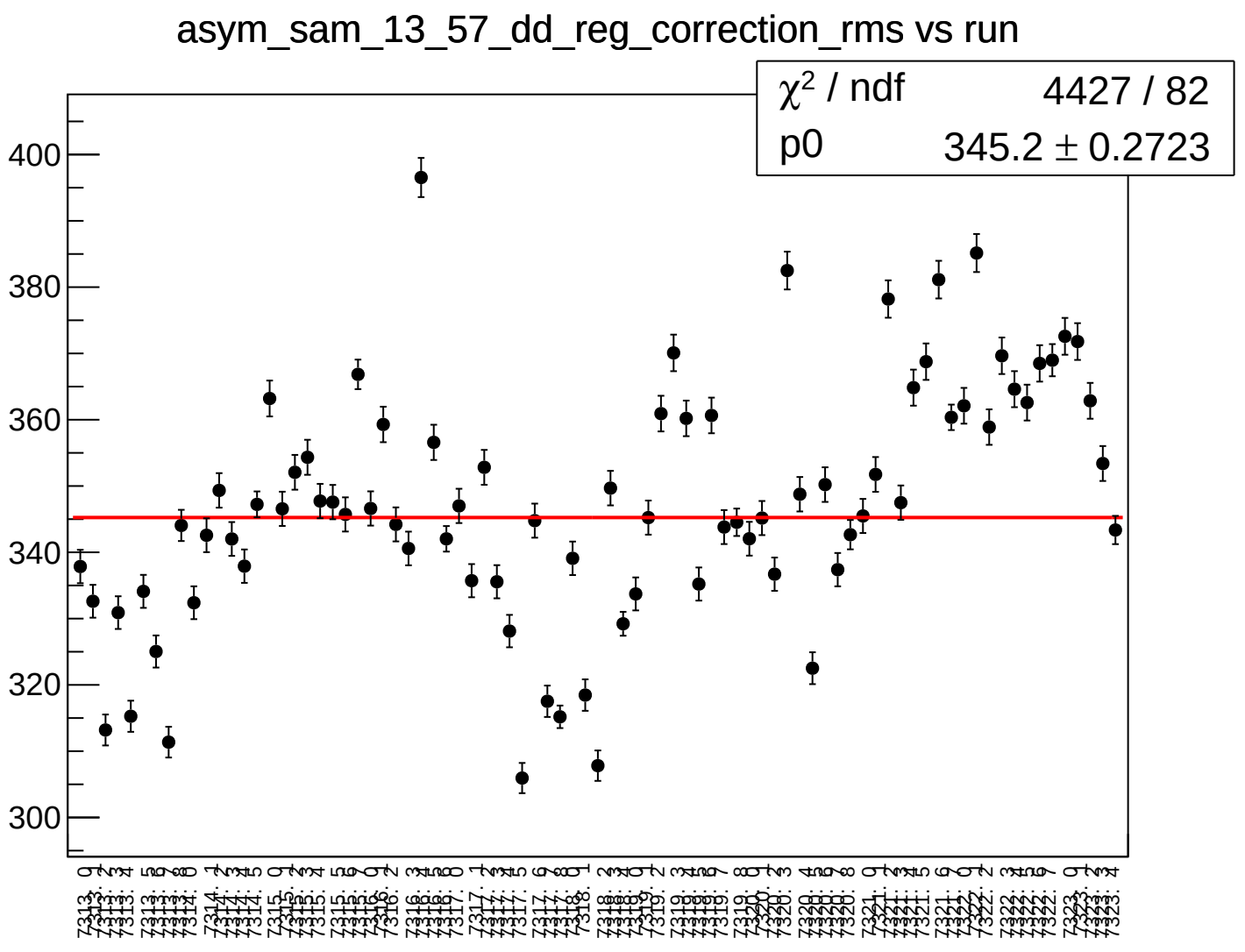

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 90.4 / 82
p0 −170.9 ± 60.72
pull
Entries 83
Mean −105.1
Std Dev 0

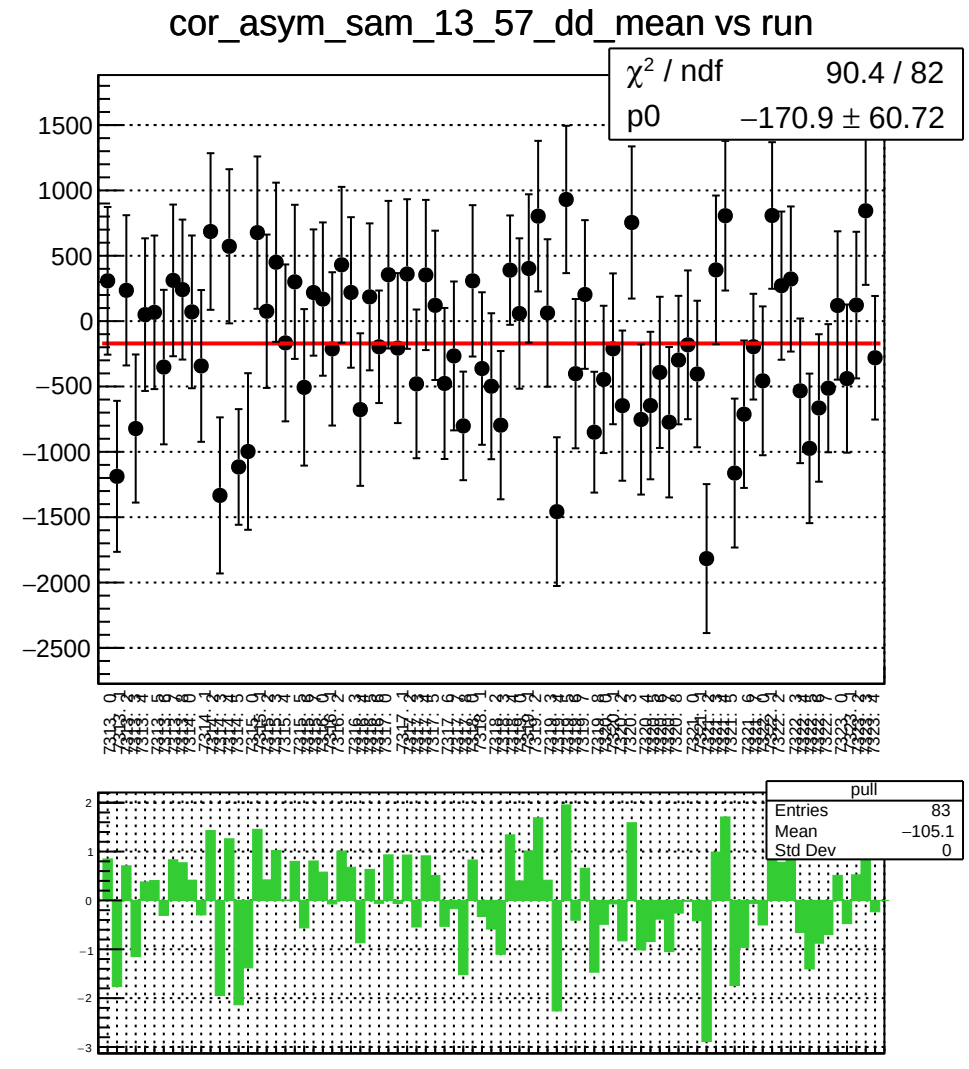

pull1D
Entries 83
Mean 0.01453
Std Dev 1.044

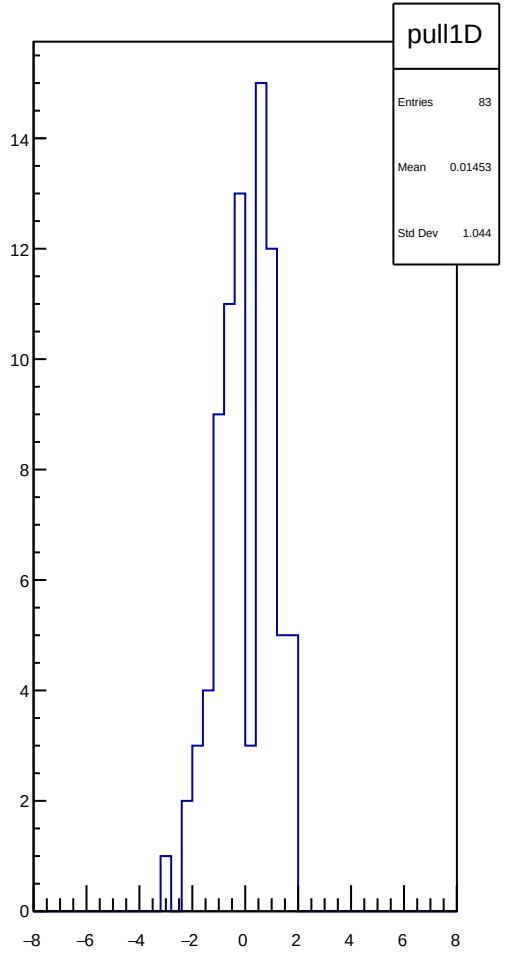

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 612.2 / 82
p0 54.5 ± 0.04294
58
57
56
55
54
53
52

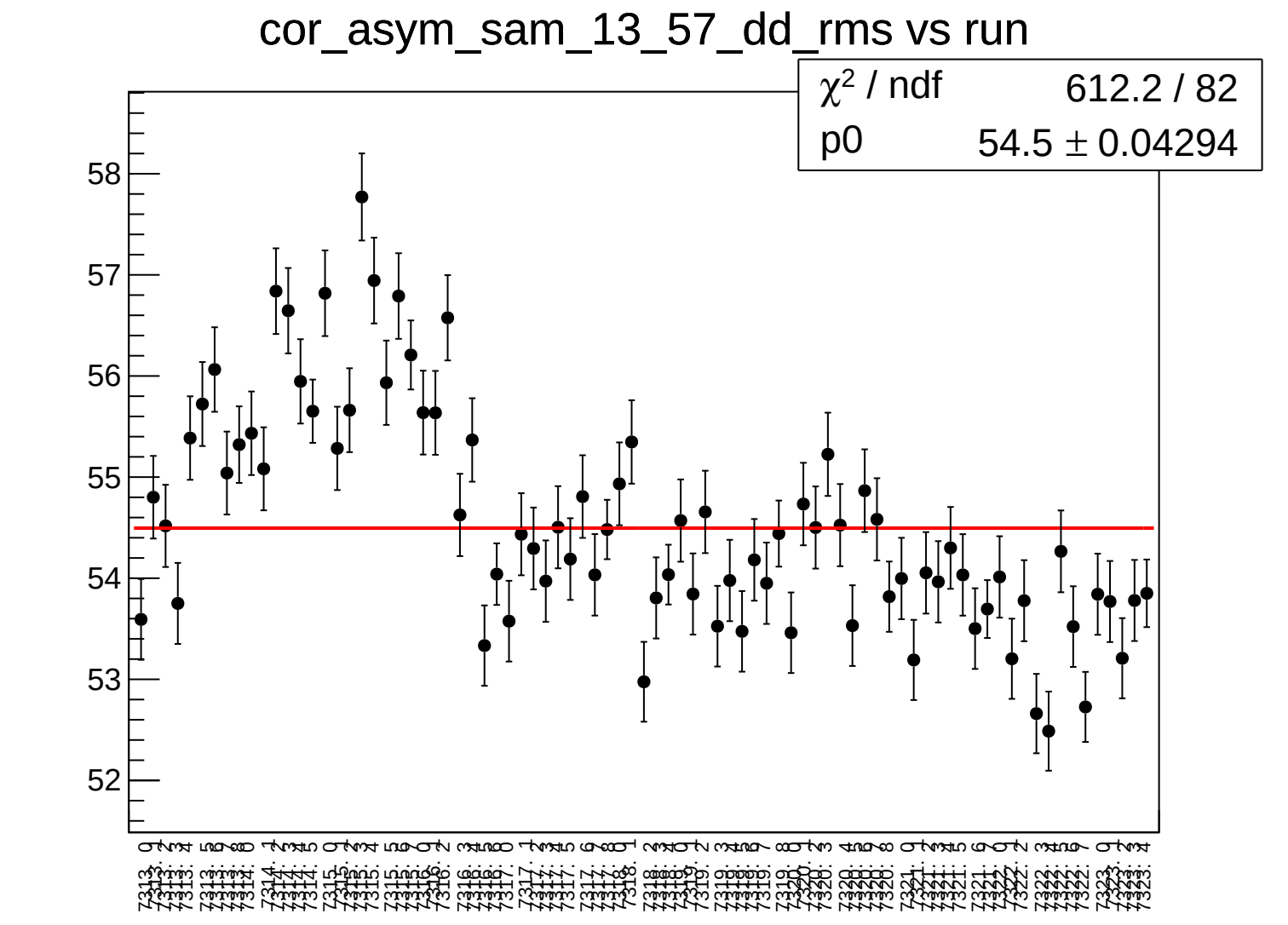

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 65.1 / 82
p0 −208.3 ± 385.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 361.8
Std Dev 0
2
1
0
−1
−2
−3

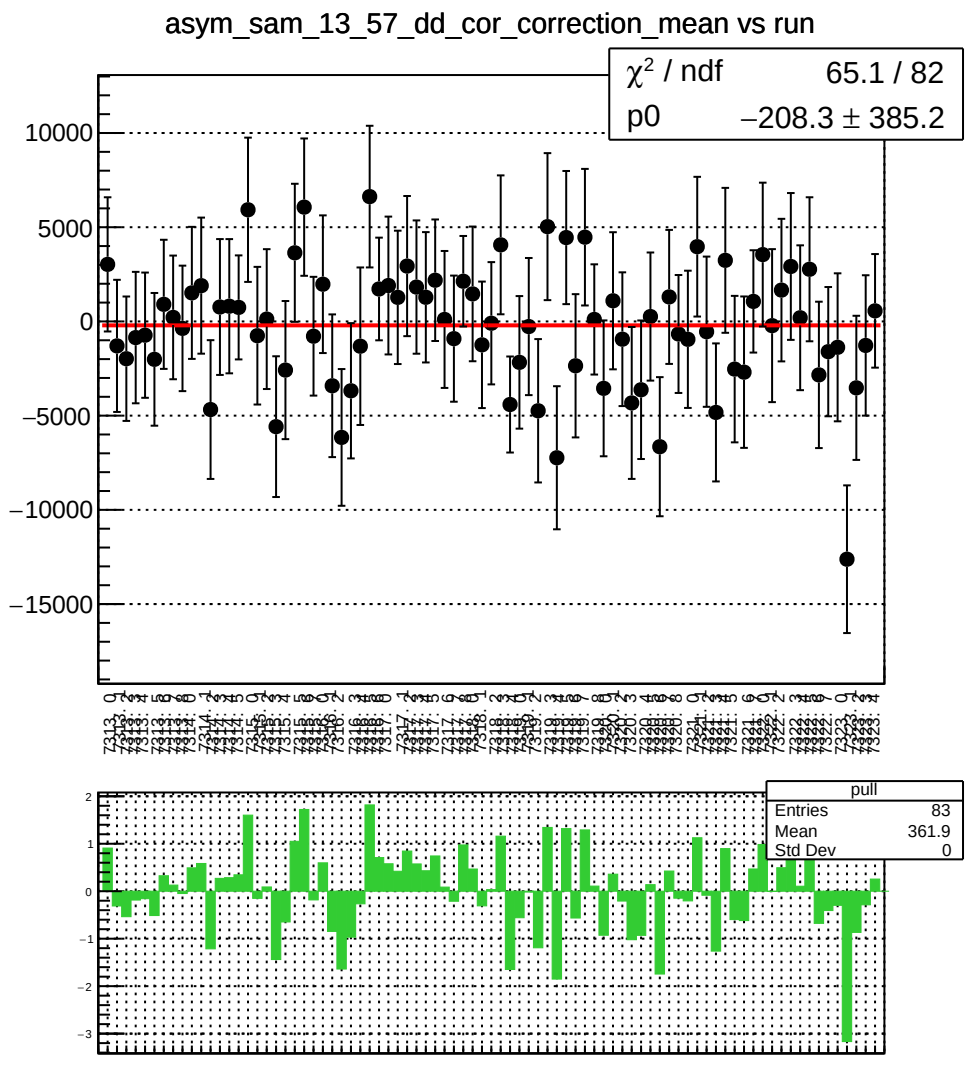

pull1D
Entries 83
Mean −0.009202
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

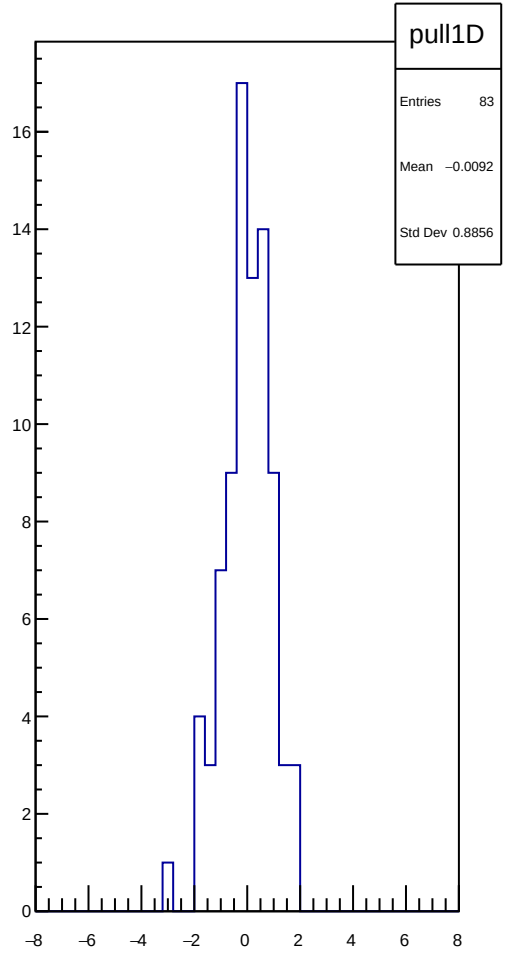

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4427 / 82
p0 345.2 ± 0.2723
400
380
360
340
320
300

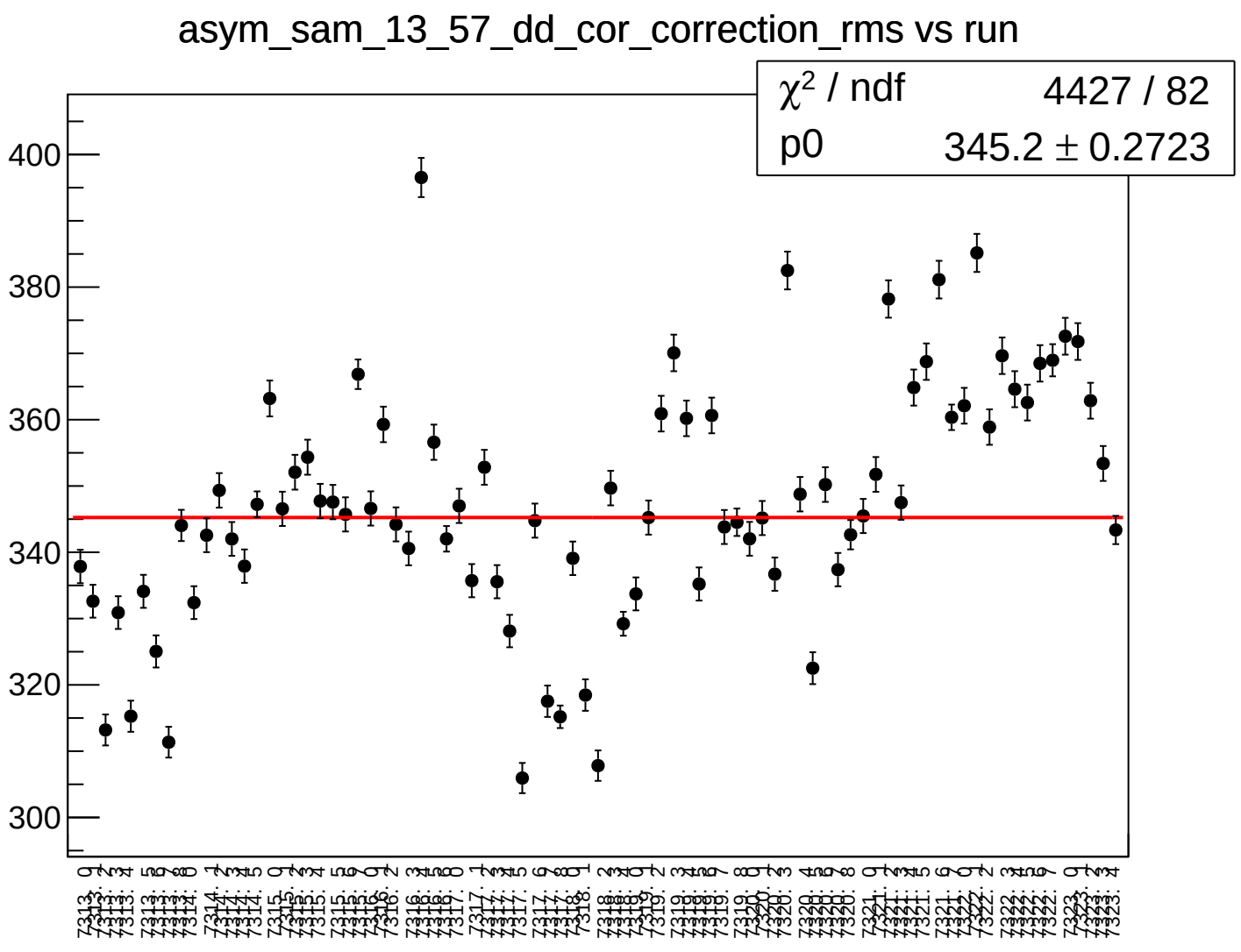

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 90.4 / 82
p0 −170.9 ± 60.72
pull
Entries 83
Mean −105.1
Std Dev 0

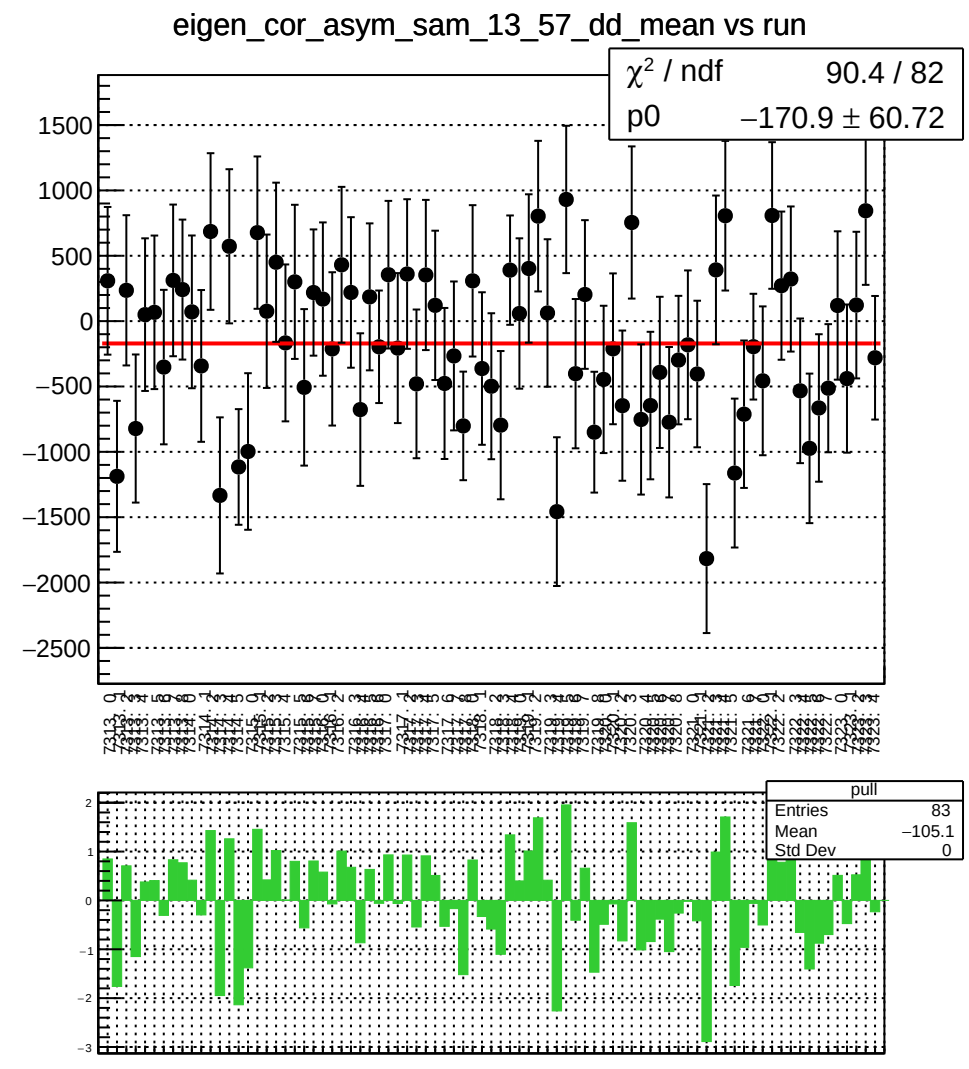

pull1D
Entries 83
Mean 0.01453
Std Dev 1.044

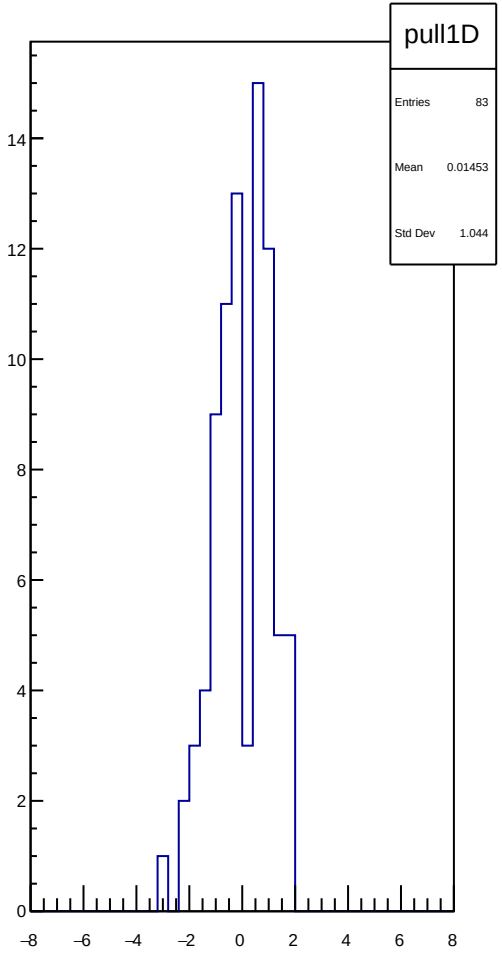

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 612.2 / 82
p0 54.5 ± 0.04294
58
57
56
55
54
53
52

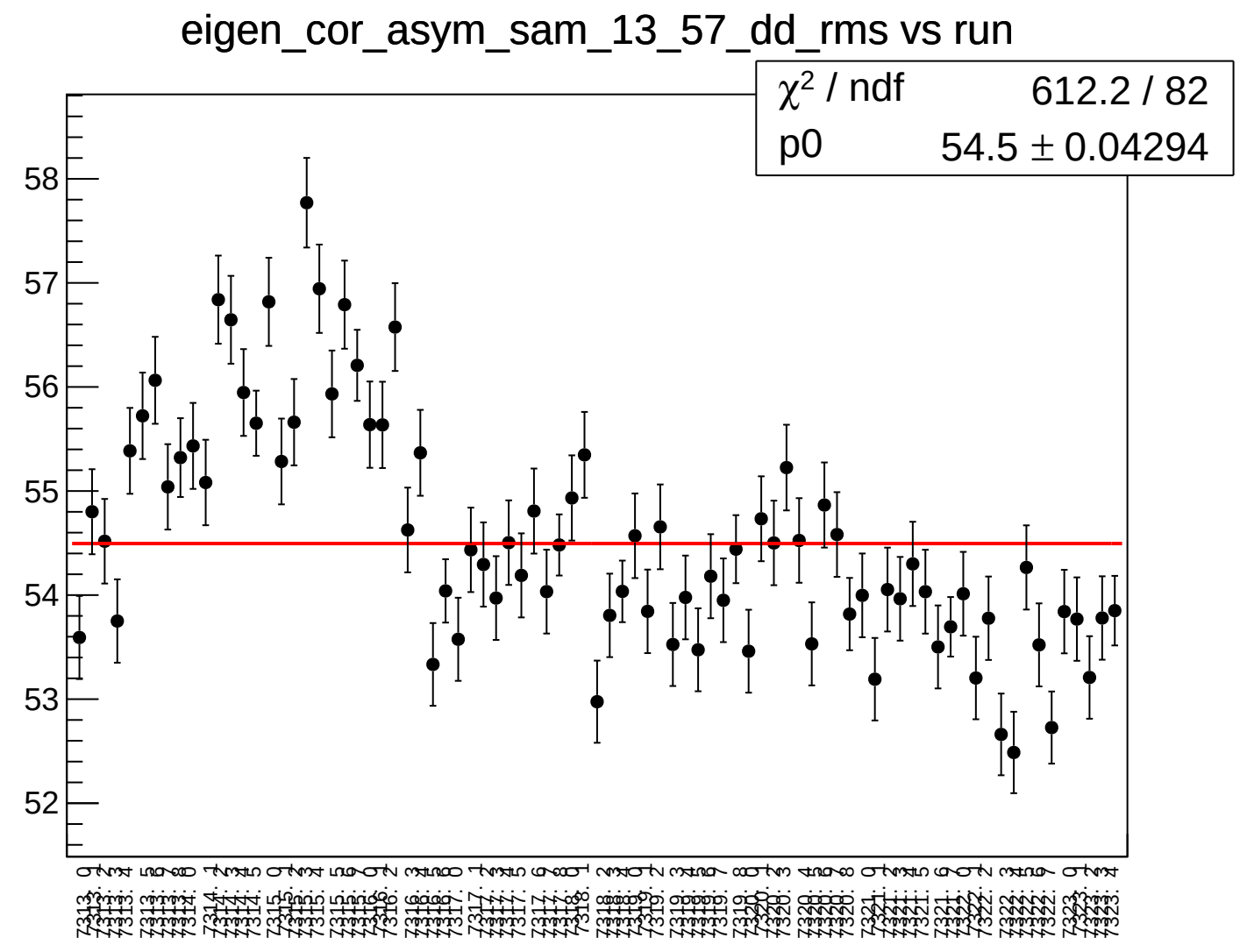

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 65.1 / 82
p0 −208.3 ± 385.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 361.9
Std Dev 0
2
1
0
−1
−2
−3

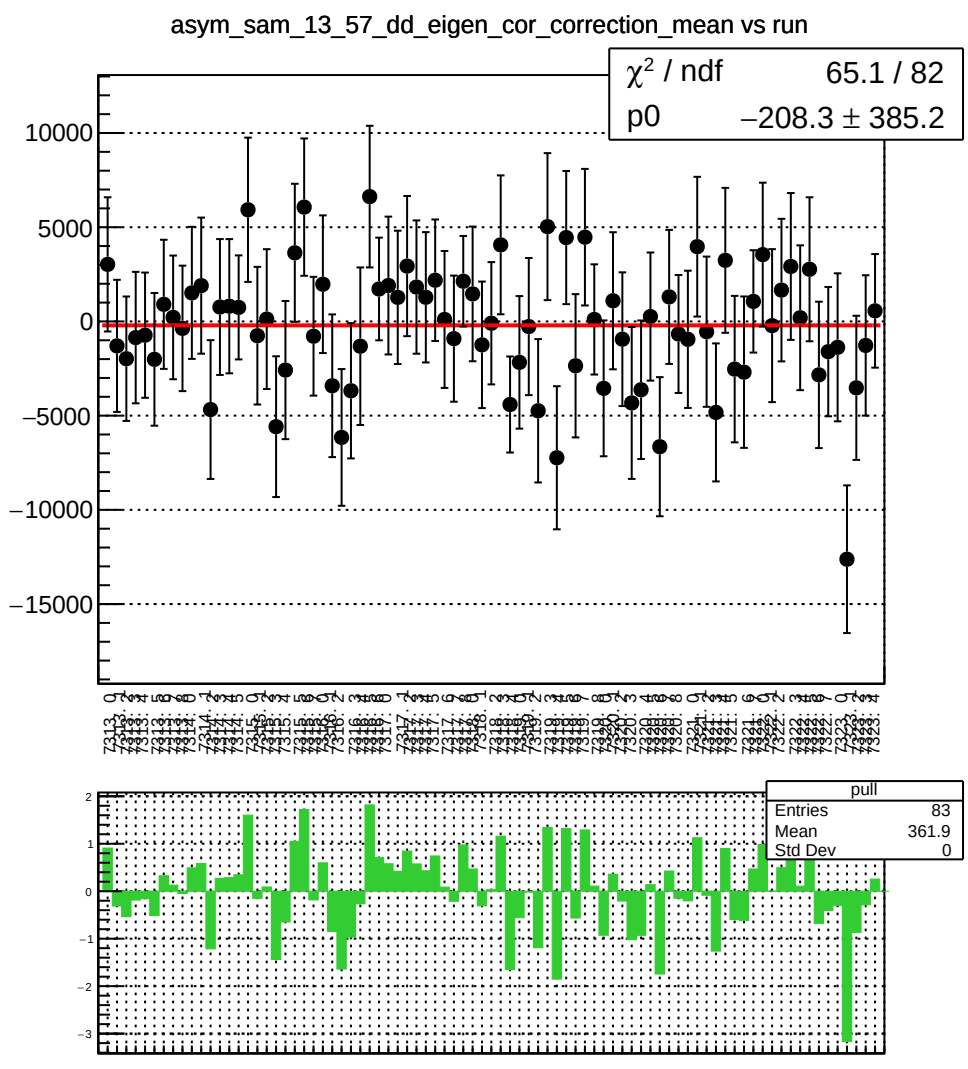

pull1D
Entries 83
Mean −0.0092
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

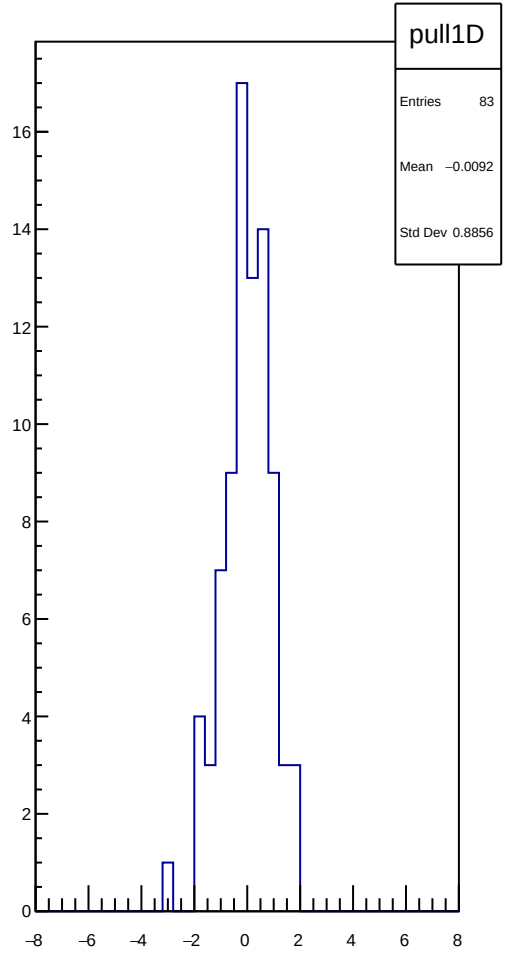

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4427 / 82
p0 345.2 ± 0.2723
400
380
360
340
320
300

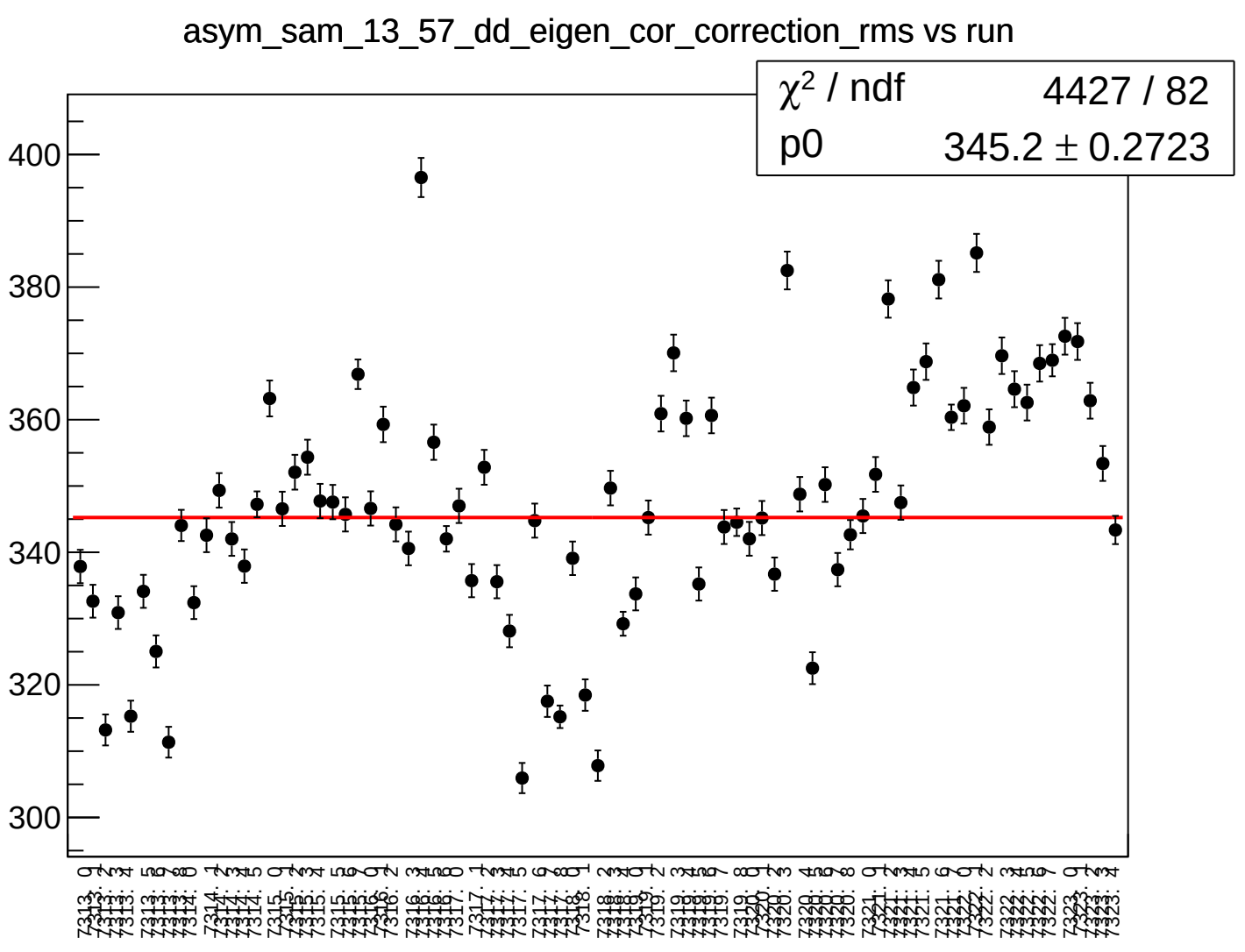

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 90.4 / 82
p0 −170.9 ± 60.72
pull
Entries 83
Mean −105.1
Std Dev 0

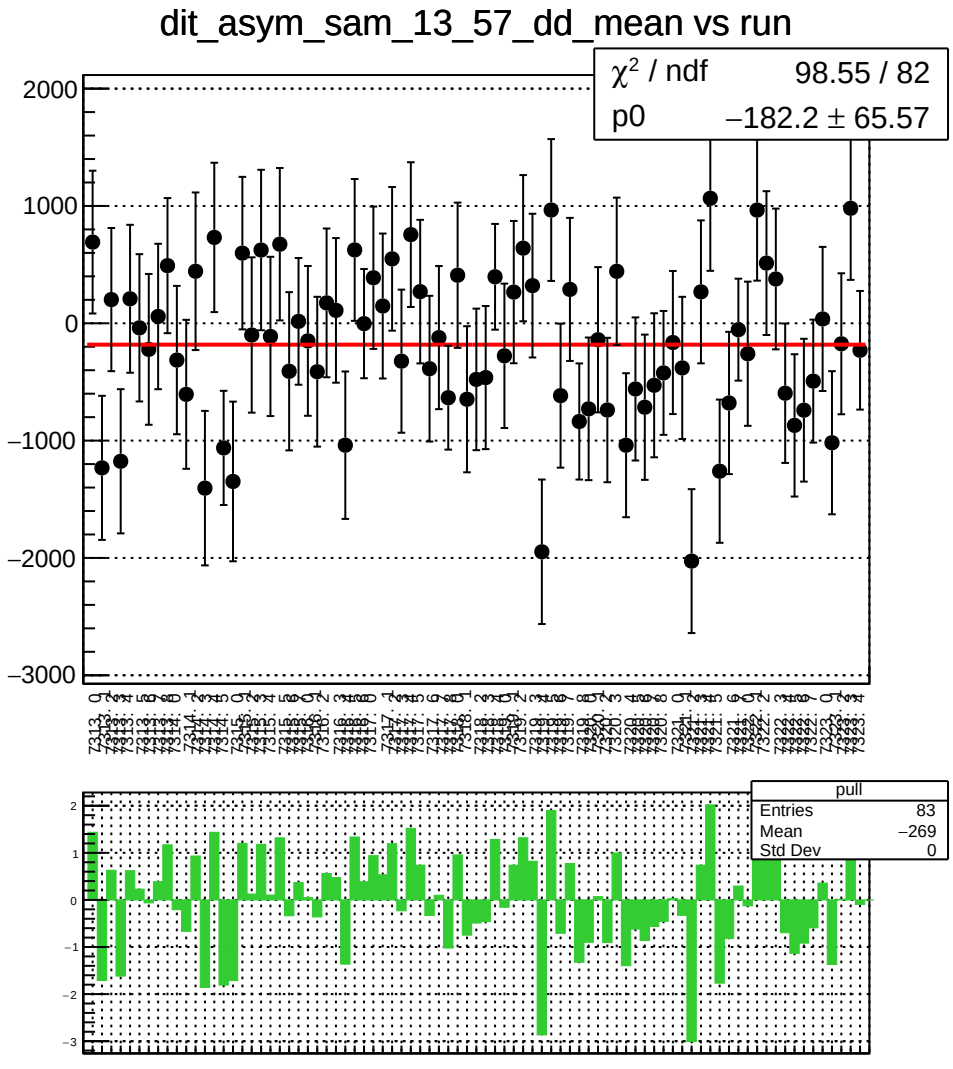

pull1D
Entries 83
Mean 0.01453
Std Dev 1.044

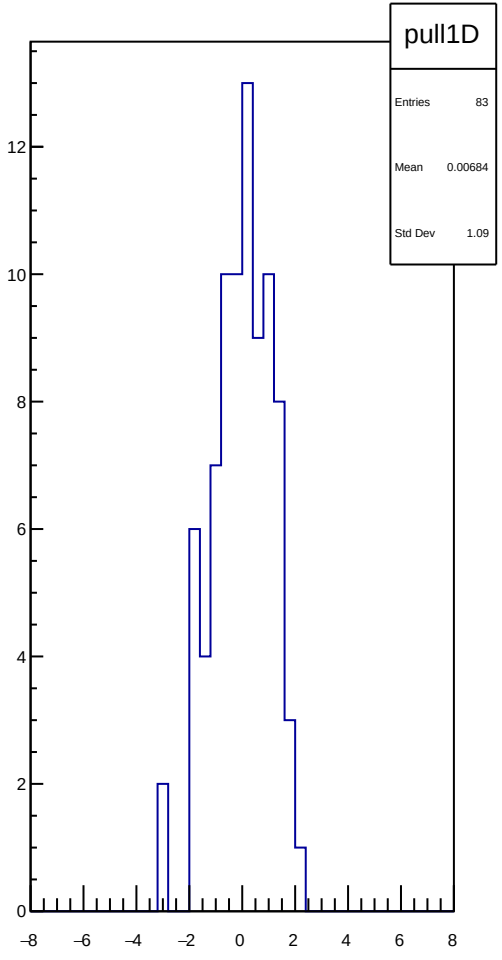

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 612.2 / 82
p0 54.5 ± 0.04294
58
57
56
55
54
53
52

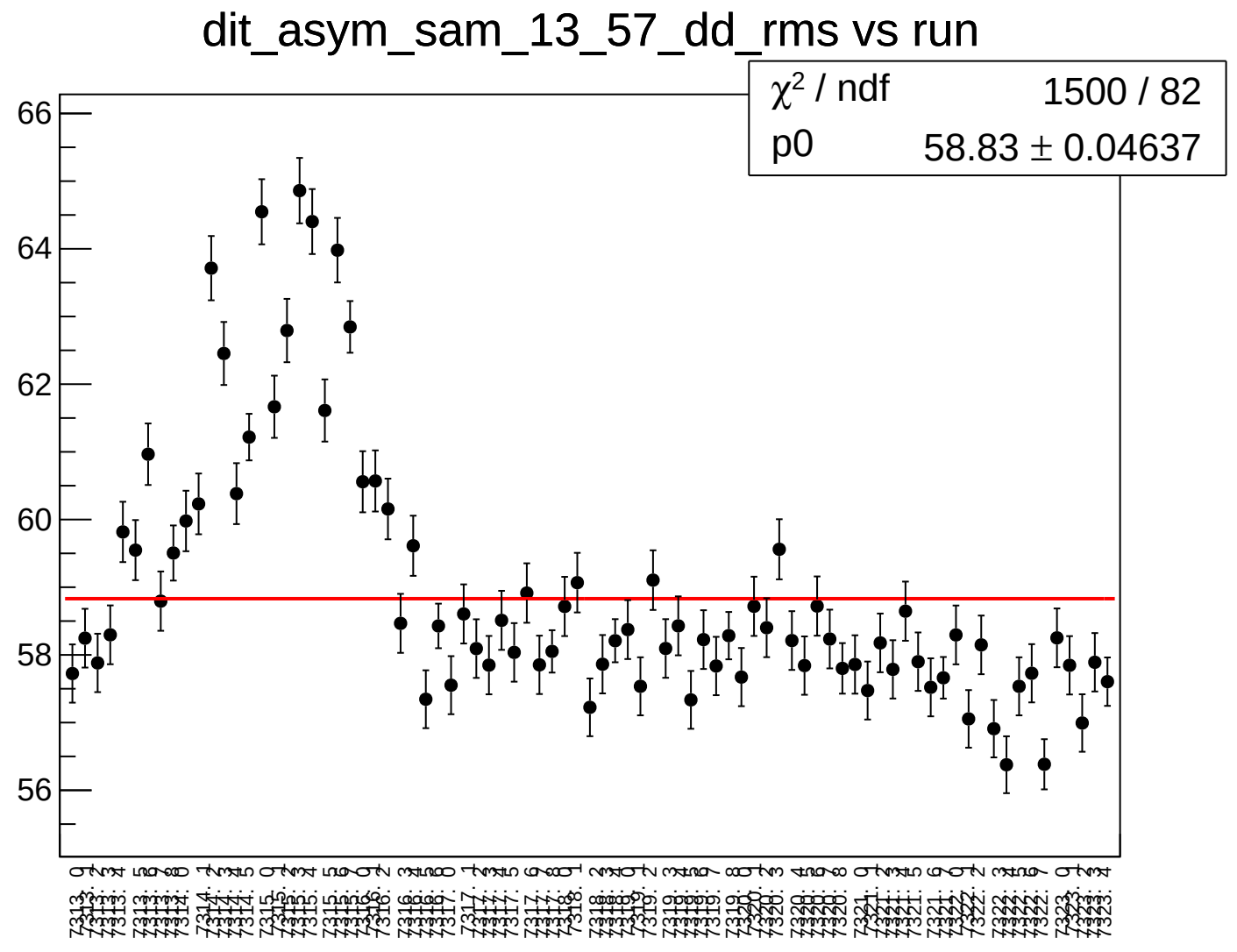

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.1 / 82
p0 −208.3 ± 385.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 361.9
Std Dev 0
2
1
0
−1
−2
−3

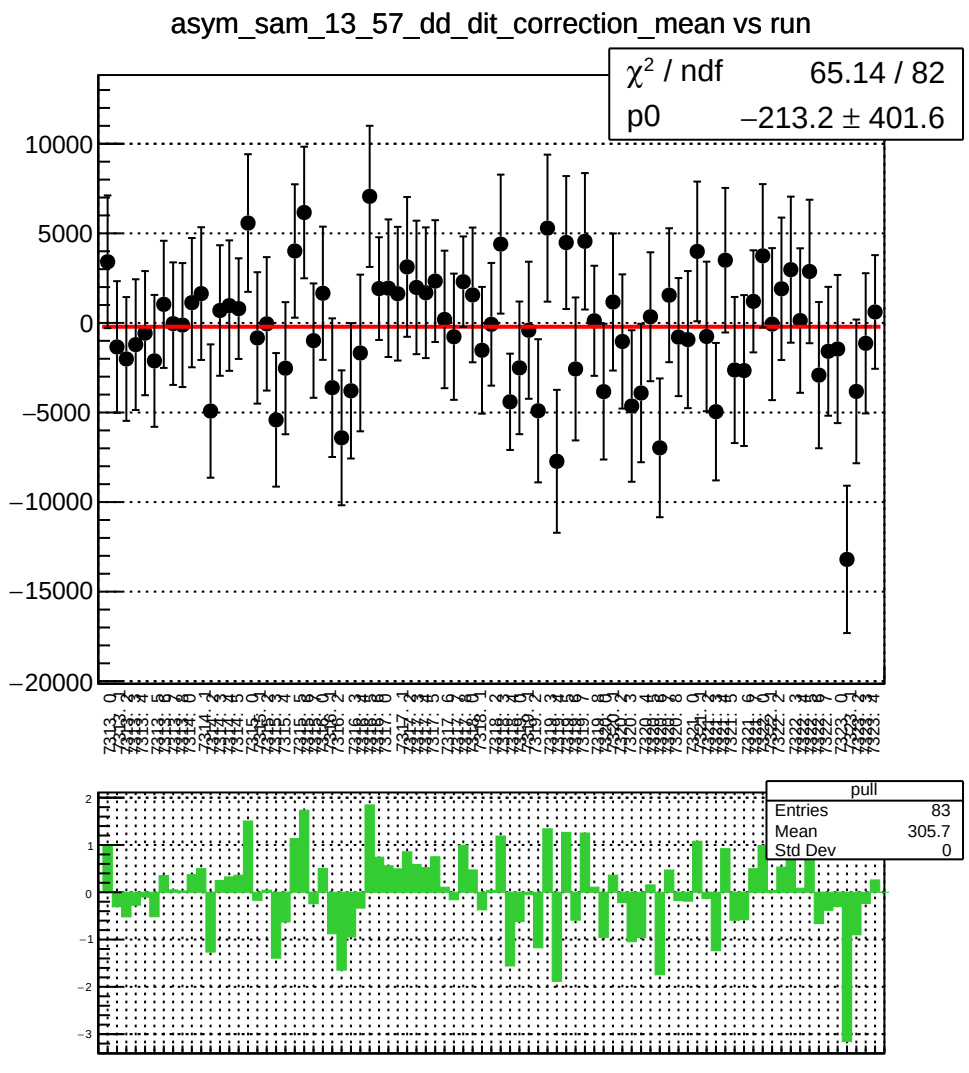

pull1D
Entries 83
Mean −0.0092
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

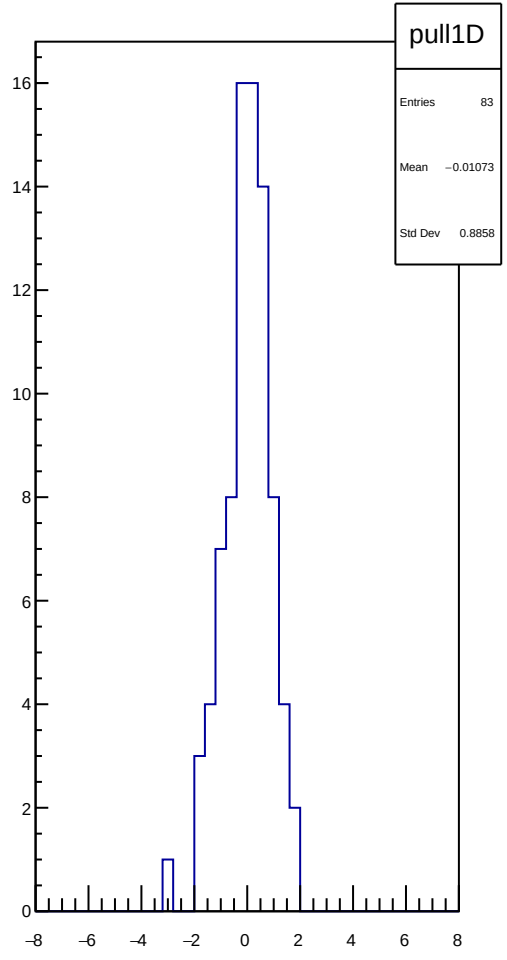

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4427 / 82
p0 345.2 ± 0.2723
400
380
360
340
320
300

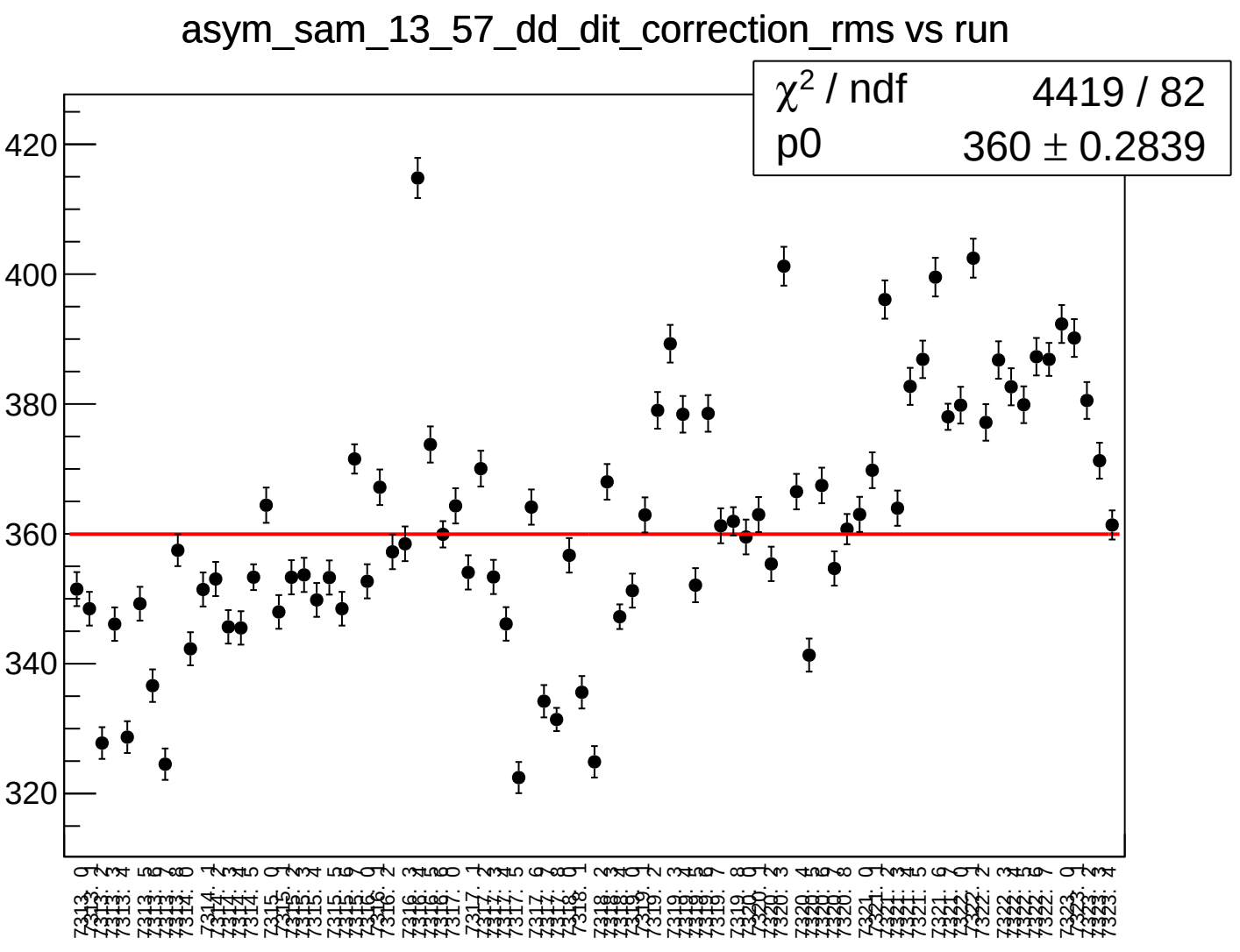

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.55 / 82
p0 −182.2 ± 65.57
pull
Entries 83
Mean −269
Std Dev 0

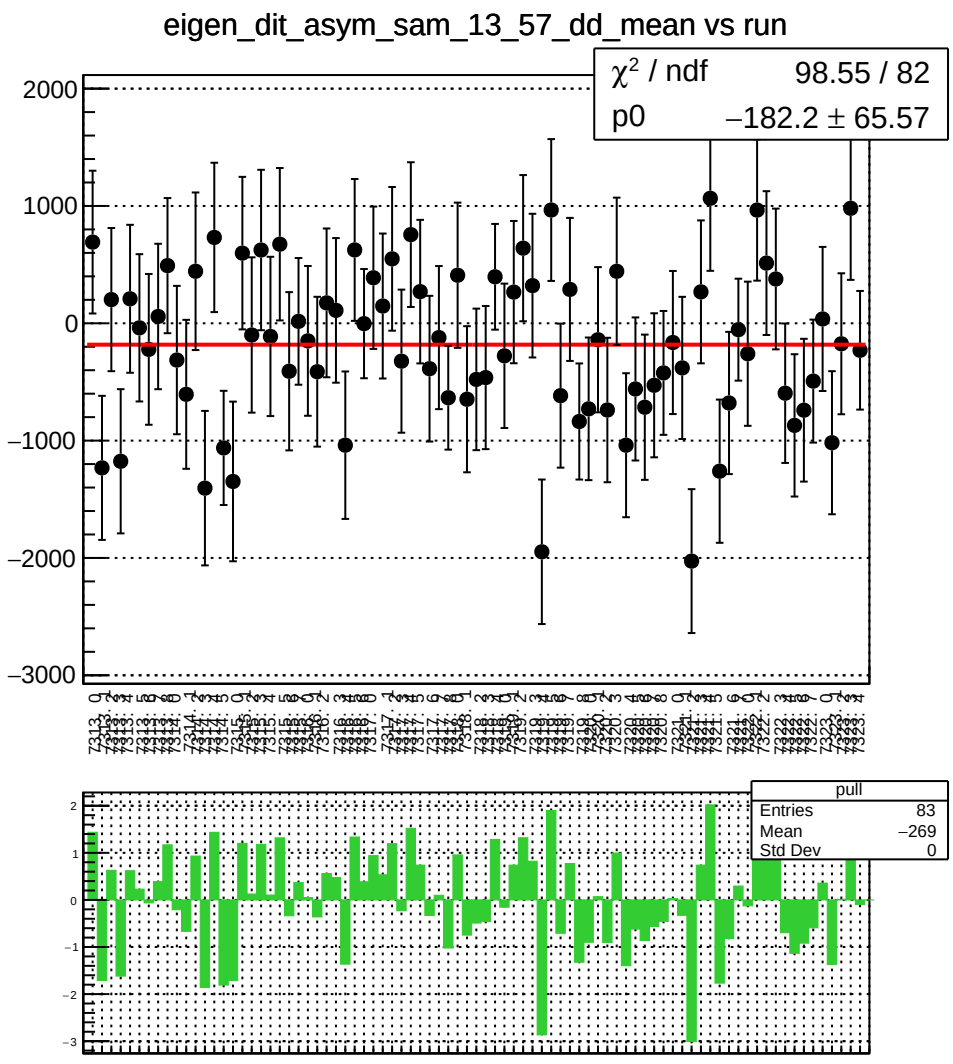

pull1D
Entries 83
Mean 0.00684
Std Dev 1.09

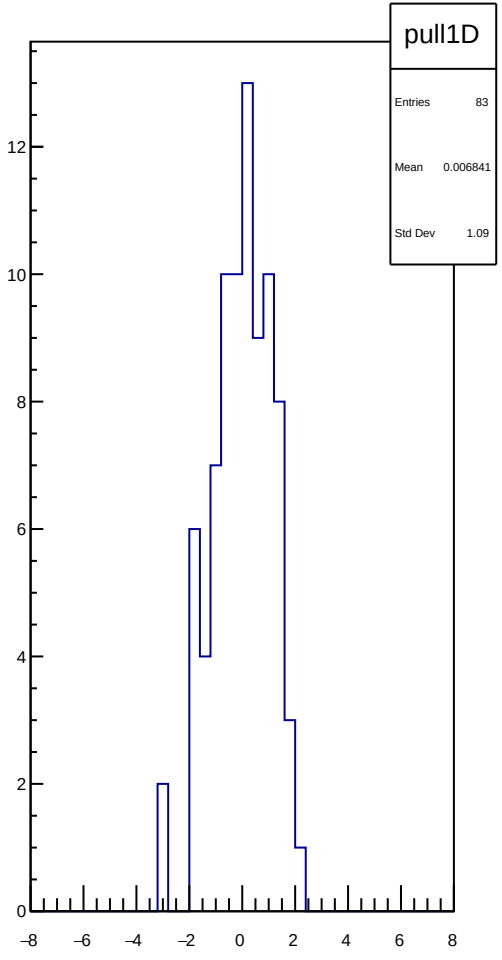

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1500 / 82
p0 58.83 ± 0.04637
66
64
62
60
58
56

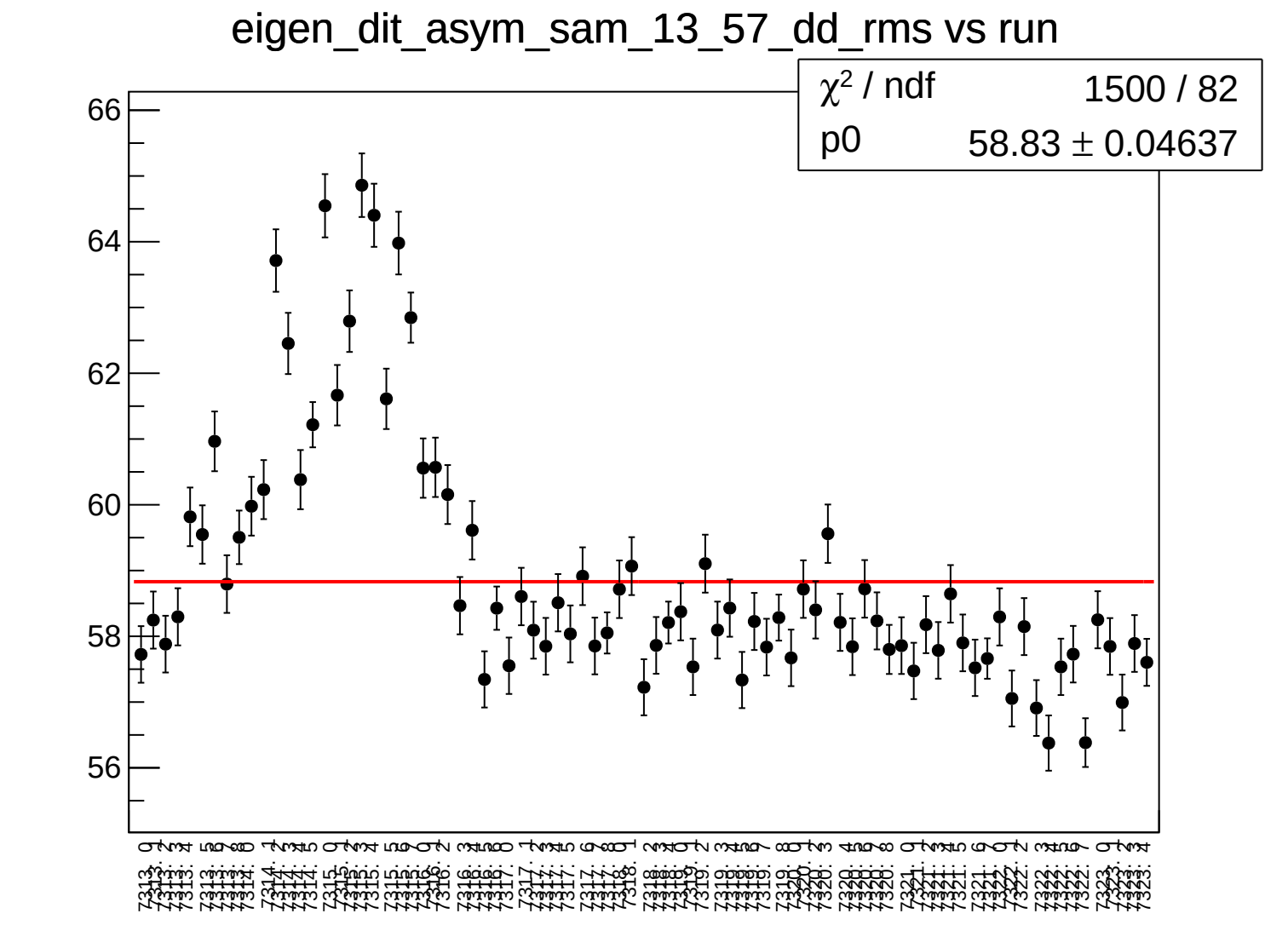

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 65.14 / 82
p0 −213.2 ± 401.6
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 305.7
Std Dev 0
2
1
0
−1
−2
−3

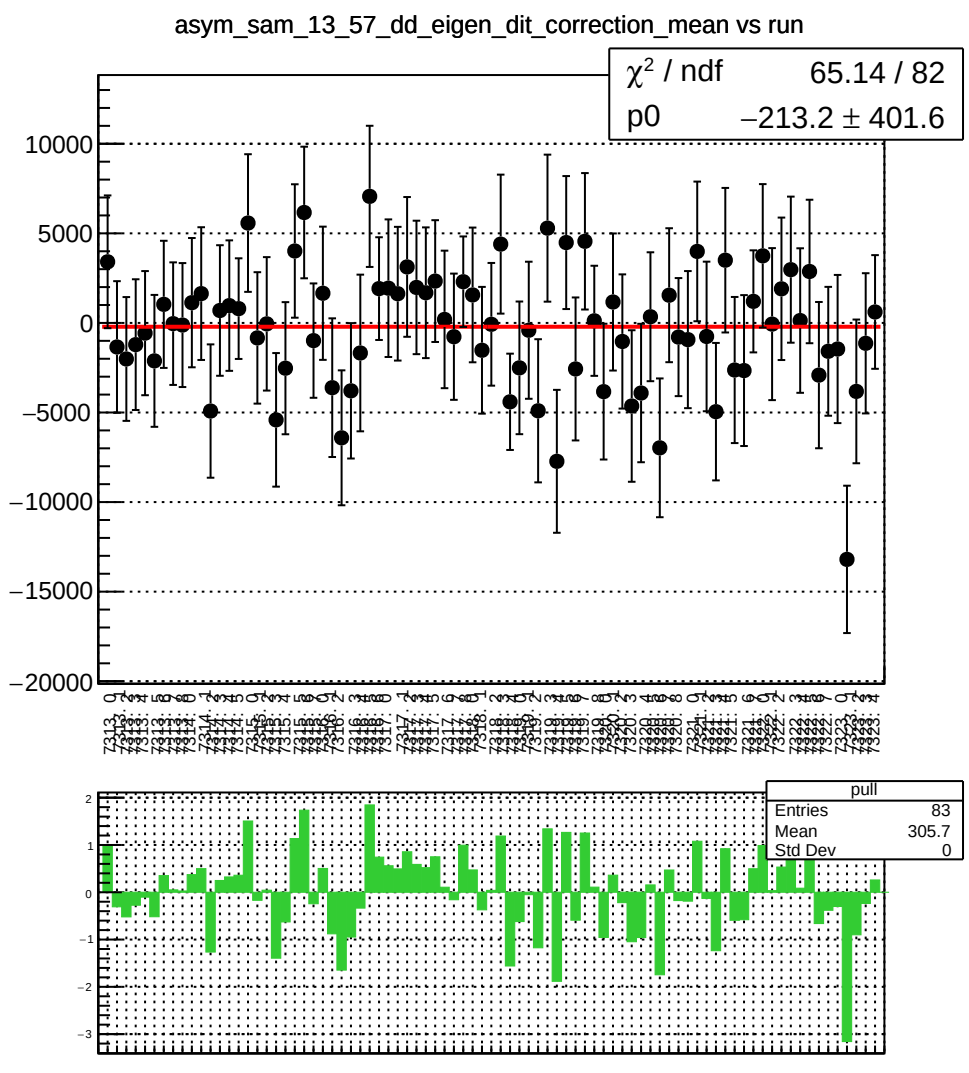

pull1D
Entries 83
Mean −0.01073
Std Dev 0.8858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

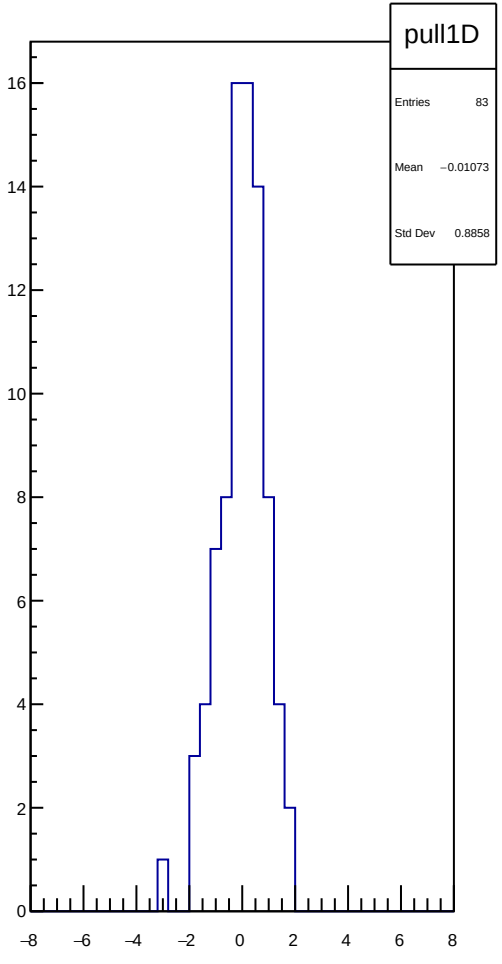

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 4419 / 82
p0 360 ± 0.2839
420
400
380
360
340
320

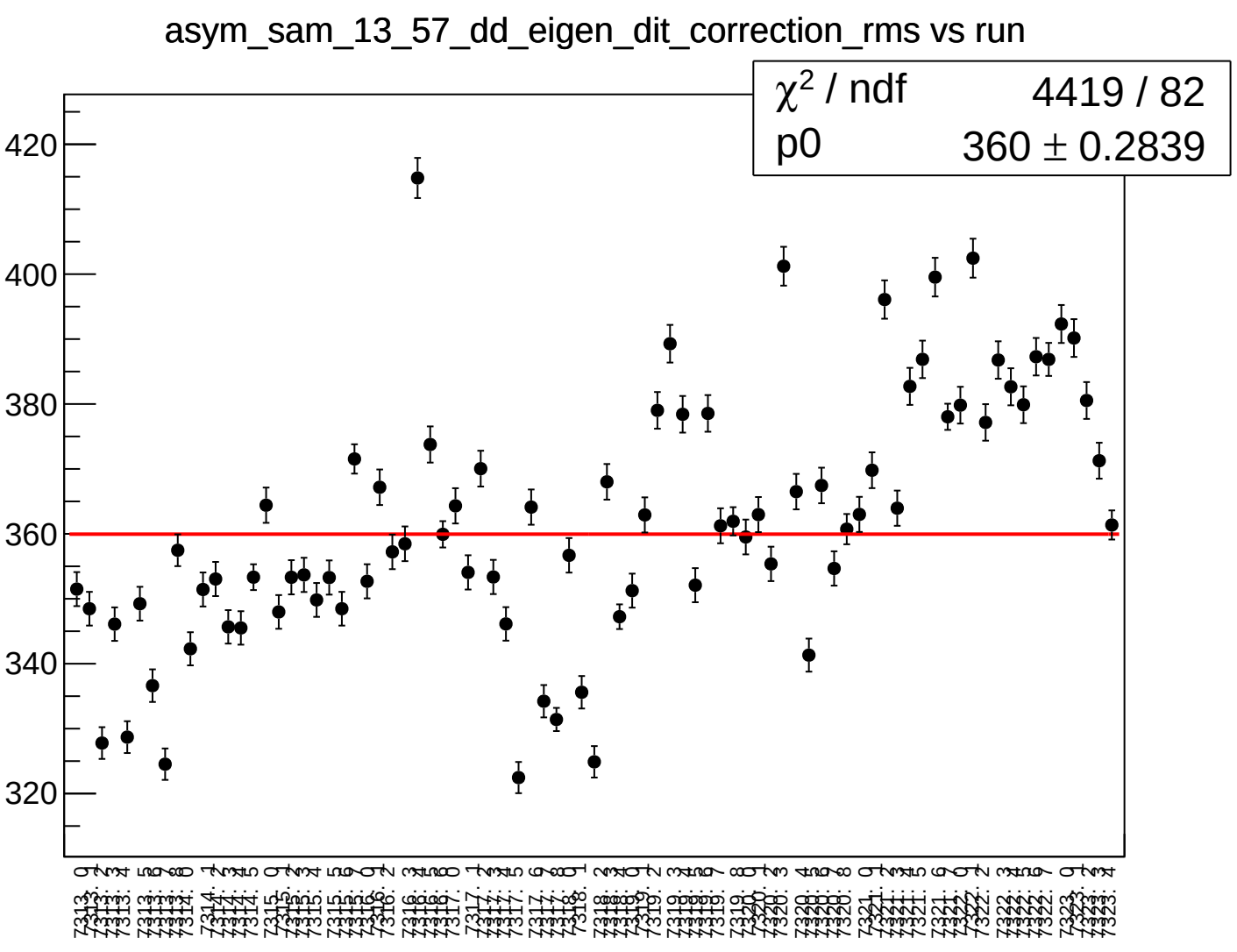

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.55 / 82
p0 −182.2 ± 65.57
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −269
Std Dev 0
2
1
0
−1
−2
−3

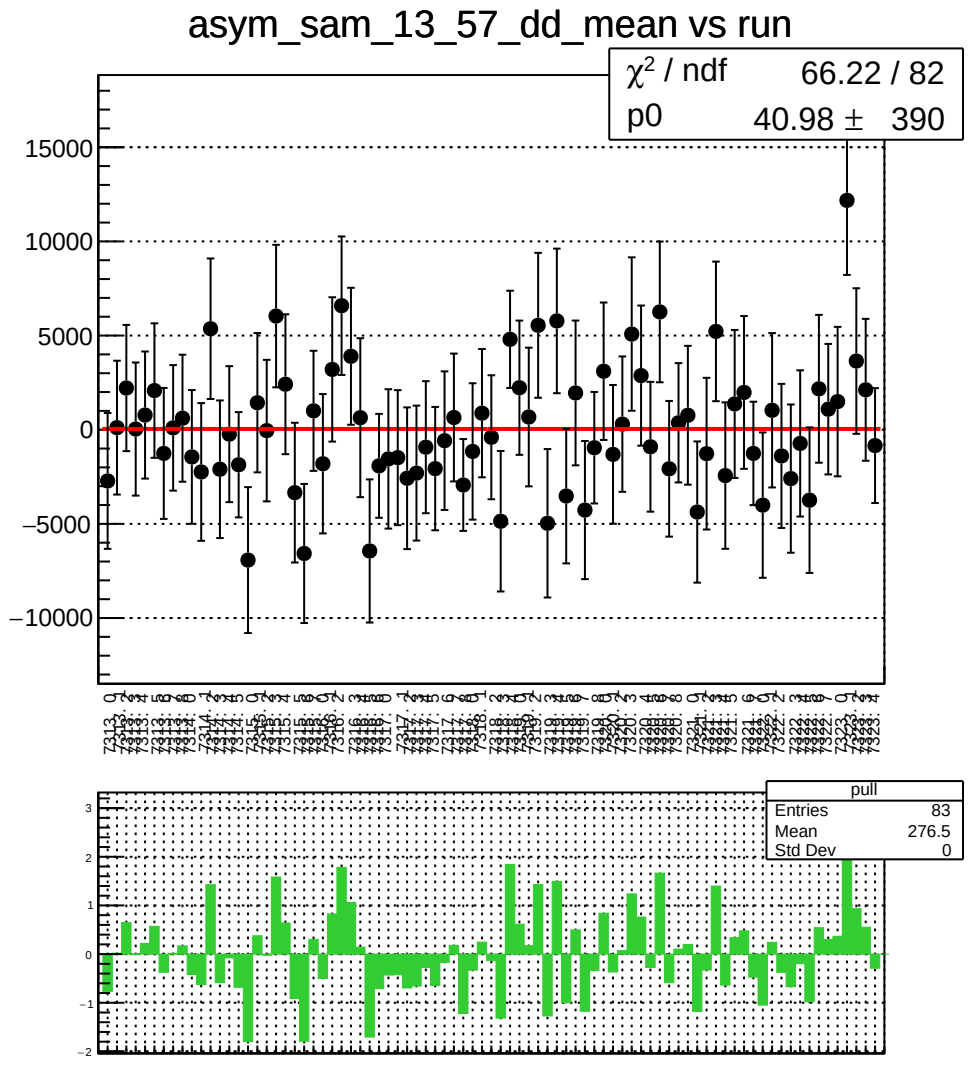

pull1D
Entries 83
Mean 0.006841
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

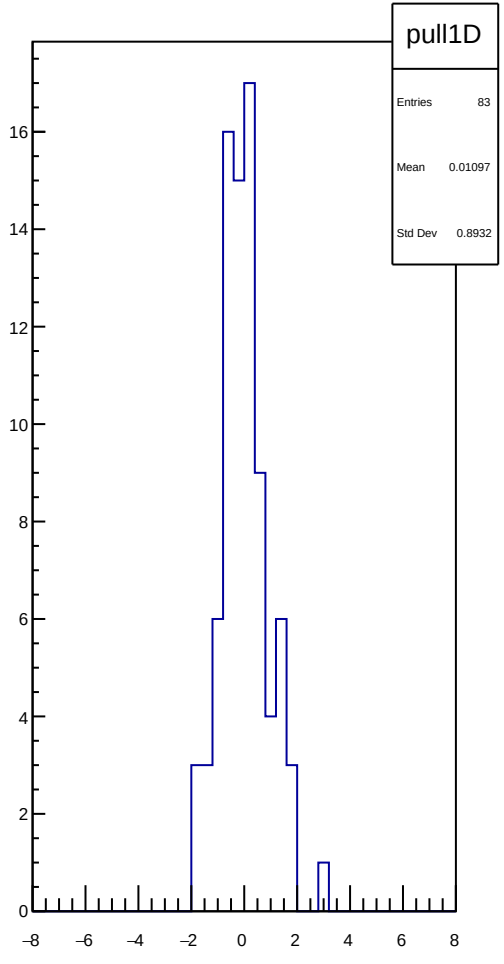

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1500 / 82
p0 58.83 ± 0.04637
66
64
62
60
58
56

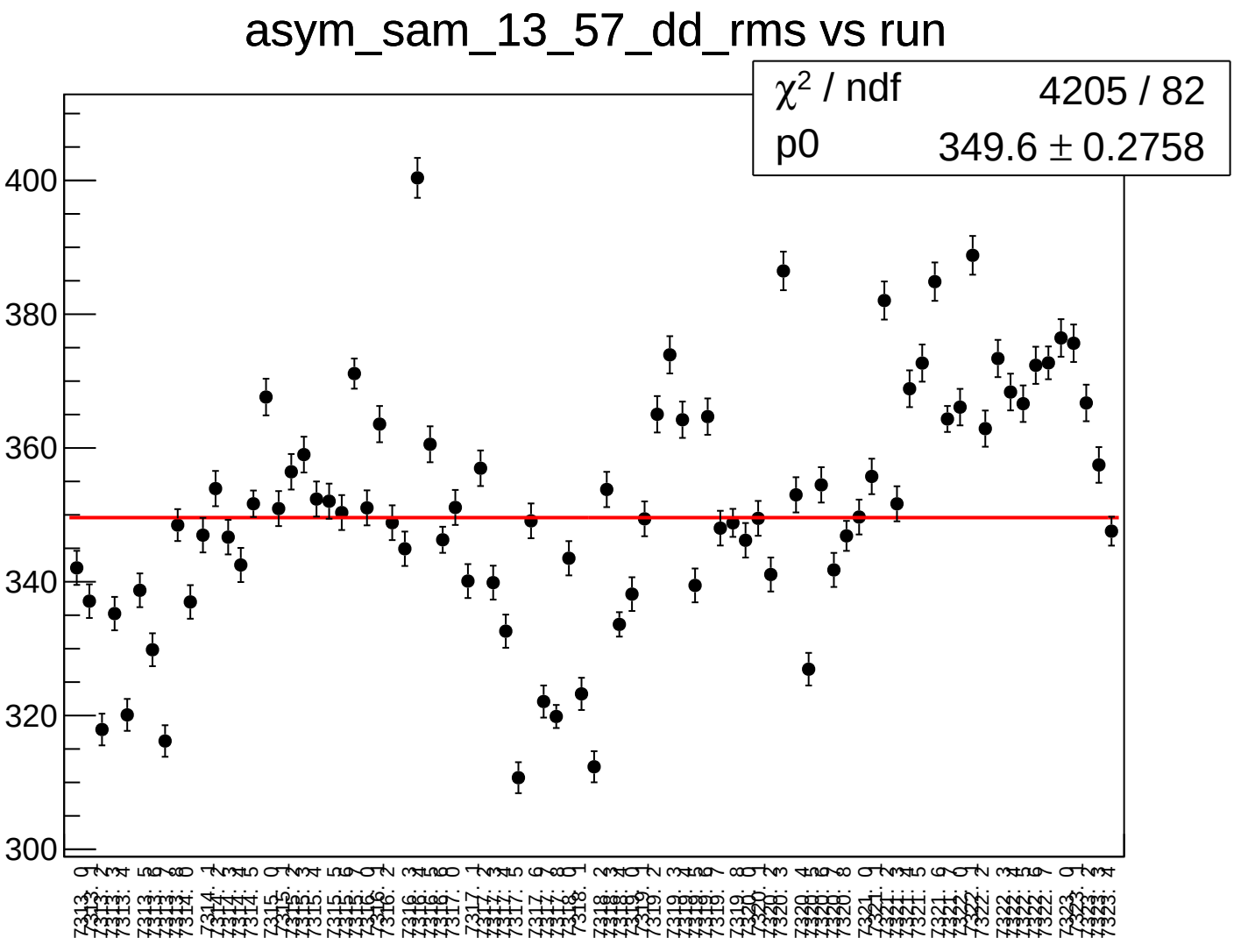

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.14 / 82
p0 −213.2 ± 401.6
pull
Entries 83
Mean 305.7
Std Dev 0

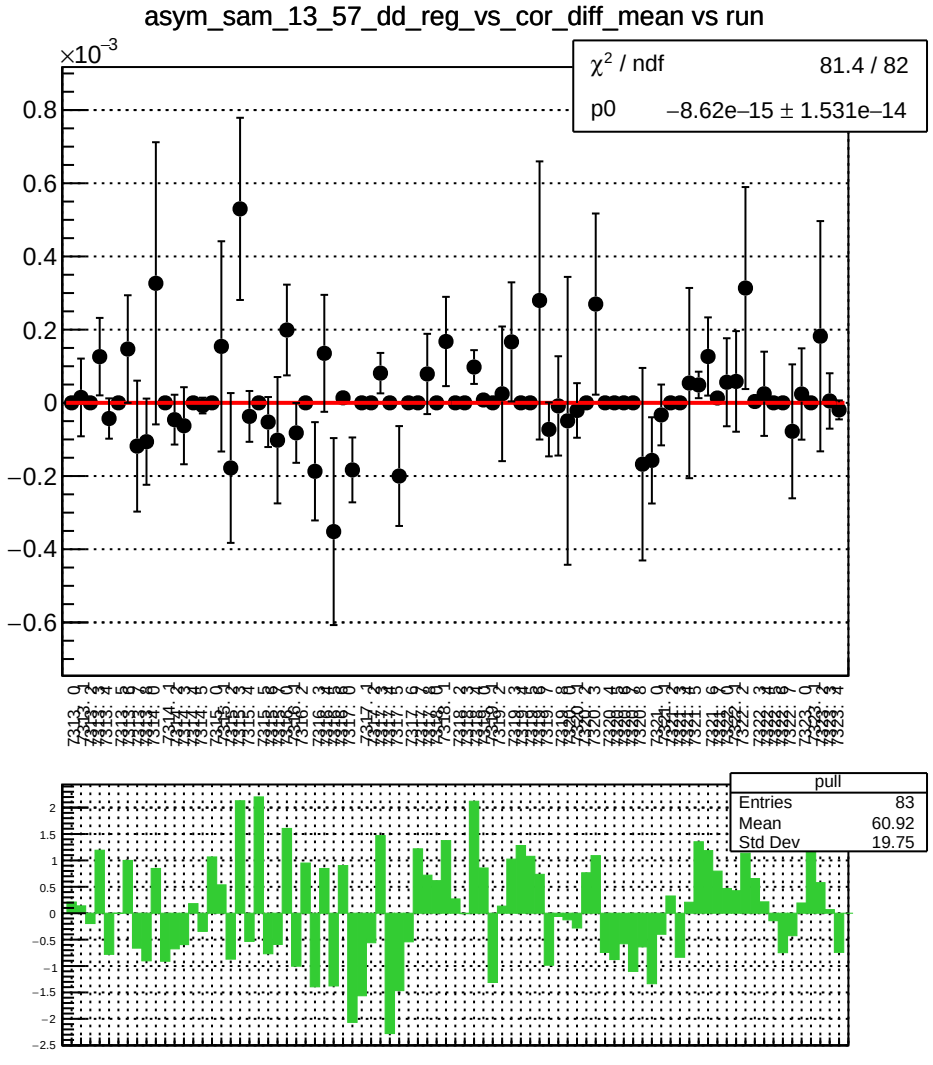

pull1D
Entries 83
Mean −0.01073
Std Dev 0.8858

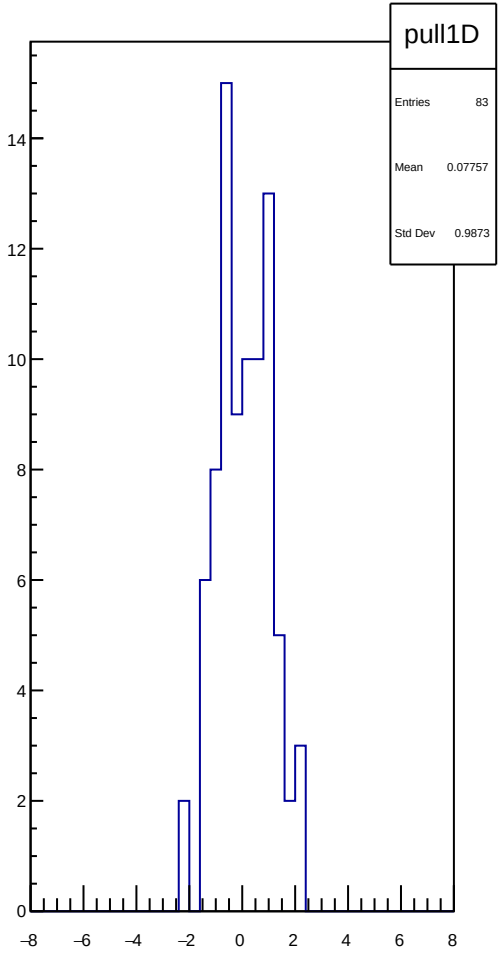

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 4419 / 82
p0 360 ± 0.2839
420
400
380
360
340
320

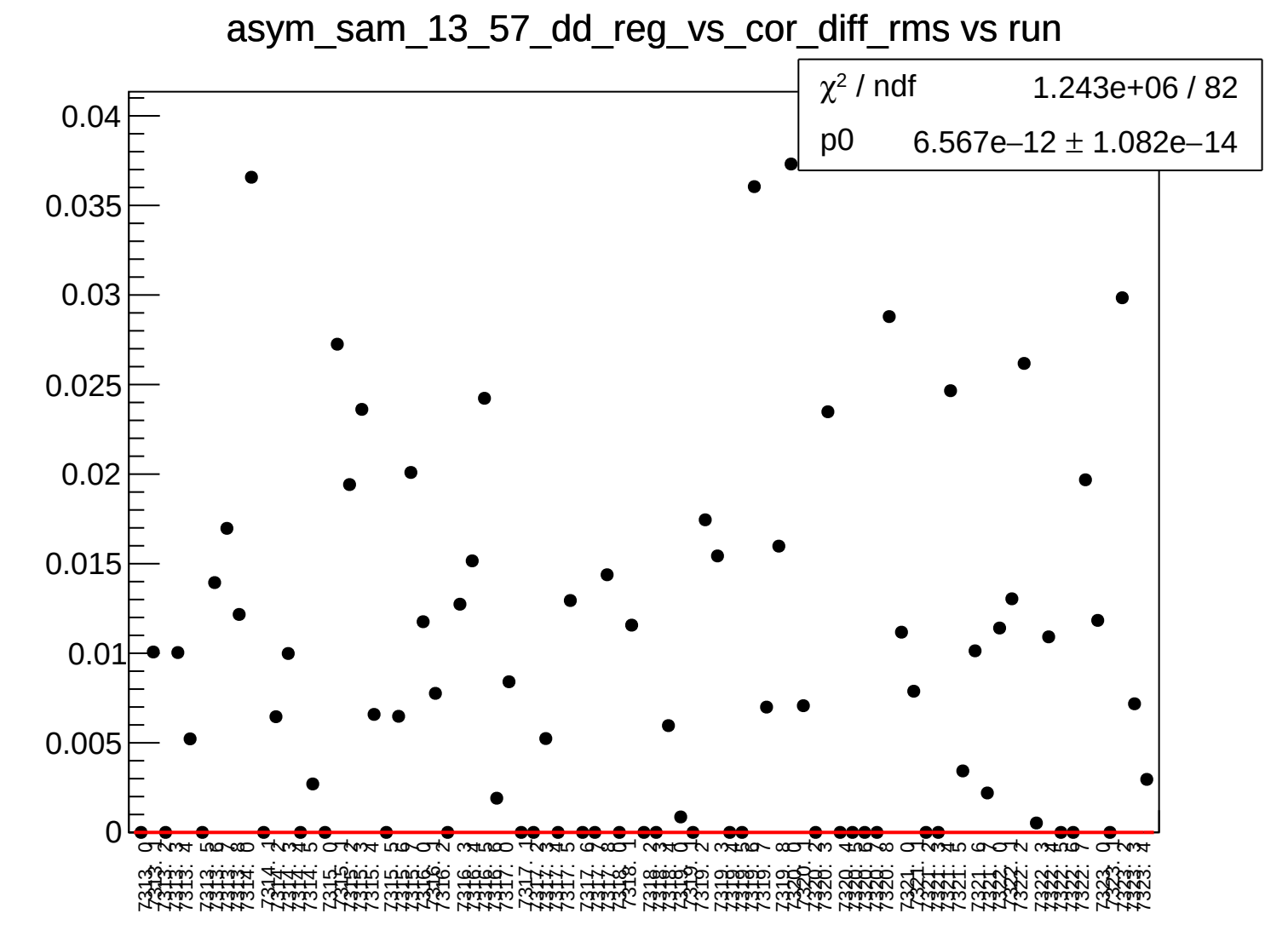

asym_sam_13_57_dd_mean vs run
χ² / ndf 66.22 / 82
p0 40.98 ± 390
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 276.5
Std Dev 0
3
2
1
0
−1
−2

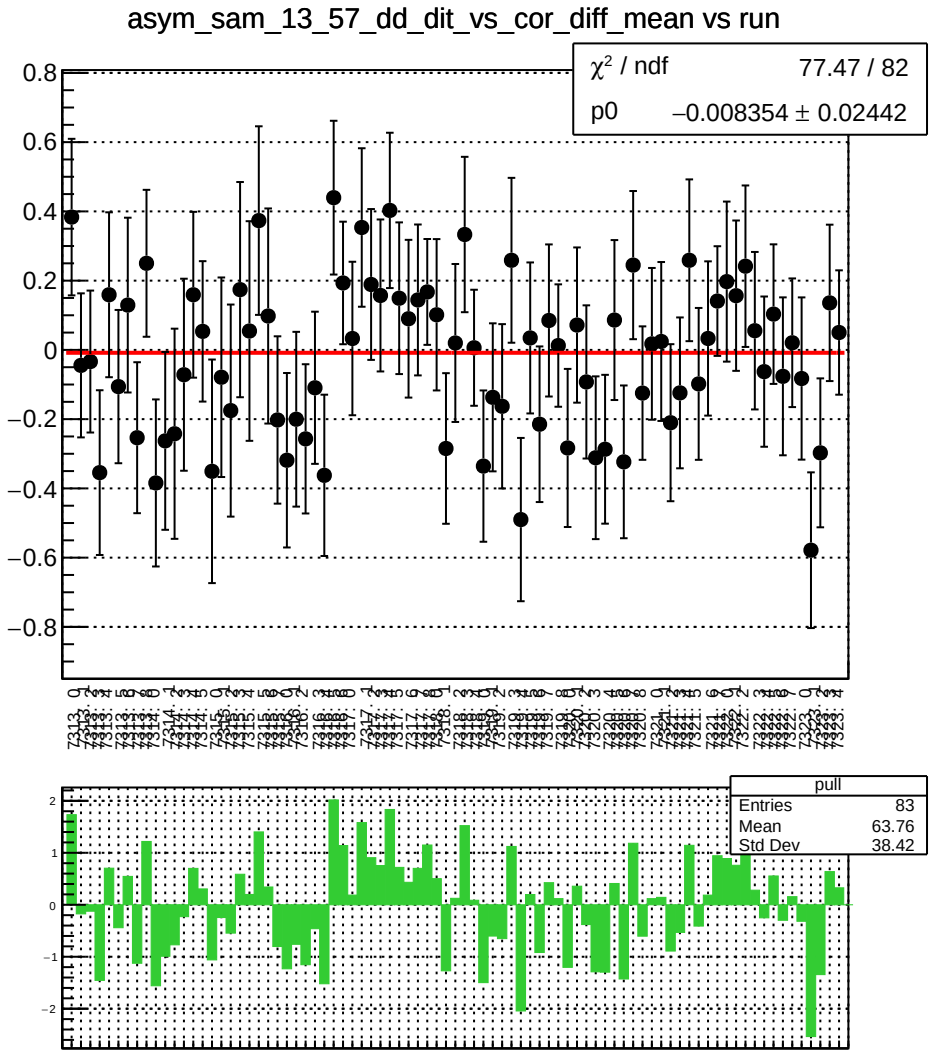

pull1D
Entries 83
Mean 0.01097
Std Dev 0.8932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

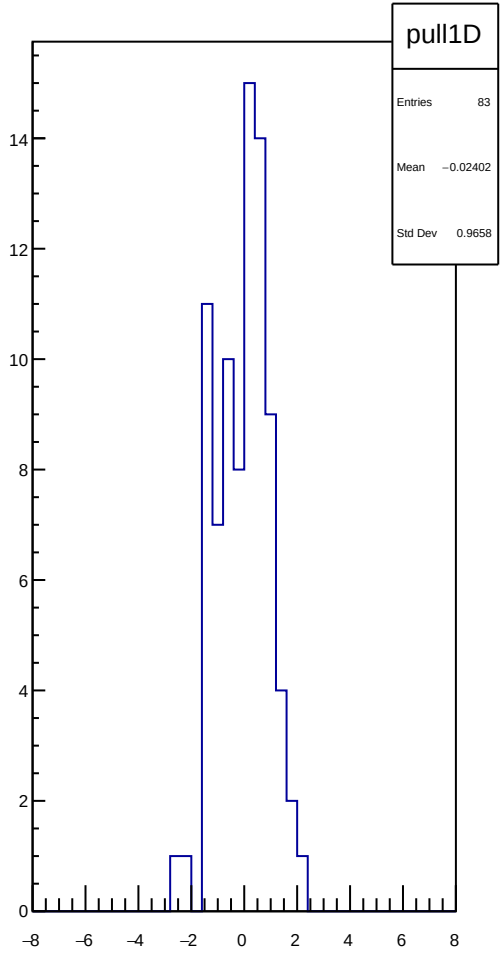

asym_sam_13_57_dd_rms vs run
χ² / ndf 4205 / 82
p0 349.6 ± 0.2758
400
380
360
340
320
300

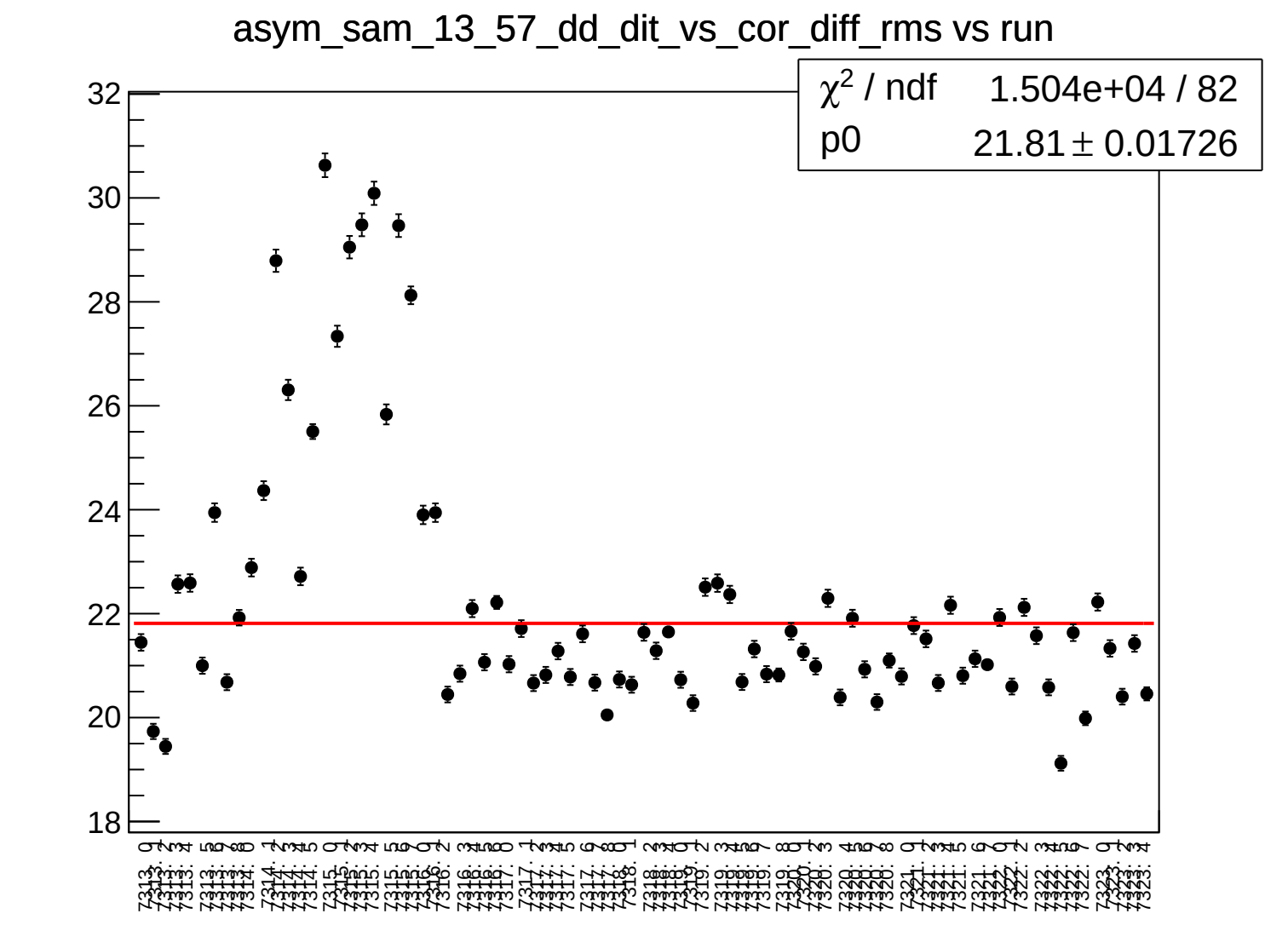

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.4 / 82
p0 −8.62e−15 ± 1.531e−14
pull
Entries 83
Mean 60.92
Std Dev 19.75

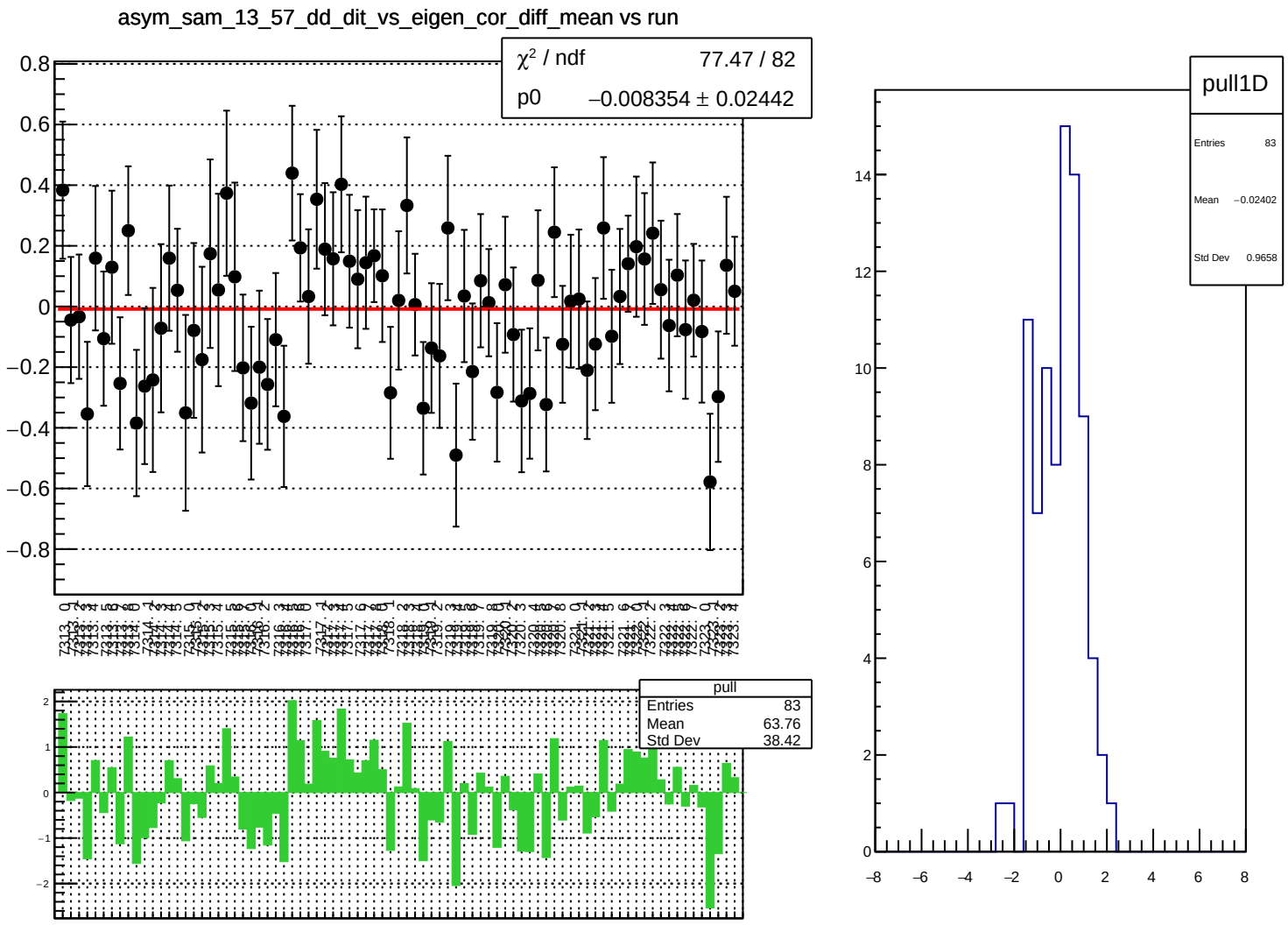

pull1D
Entries 83
Mean 0.07757
Std Dev 0.9873

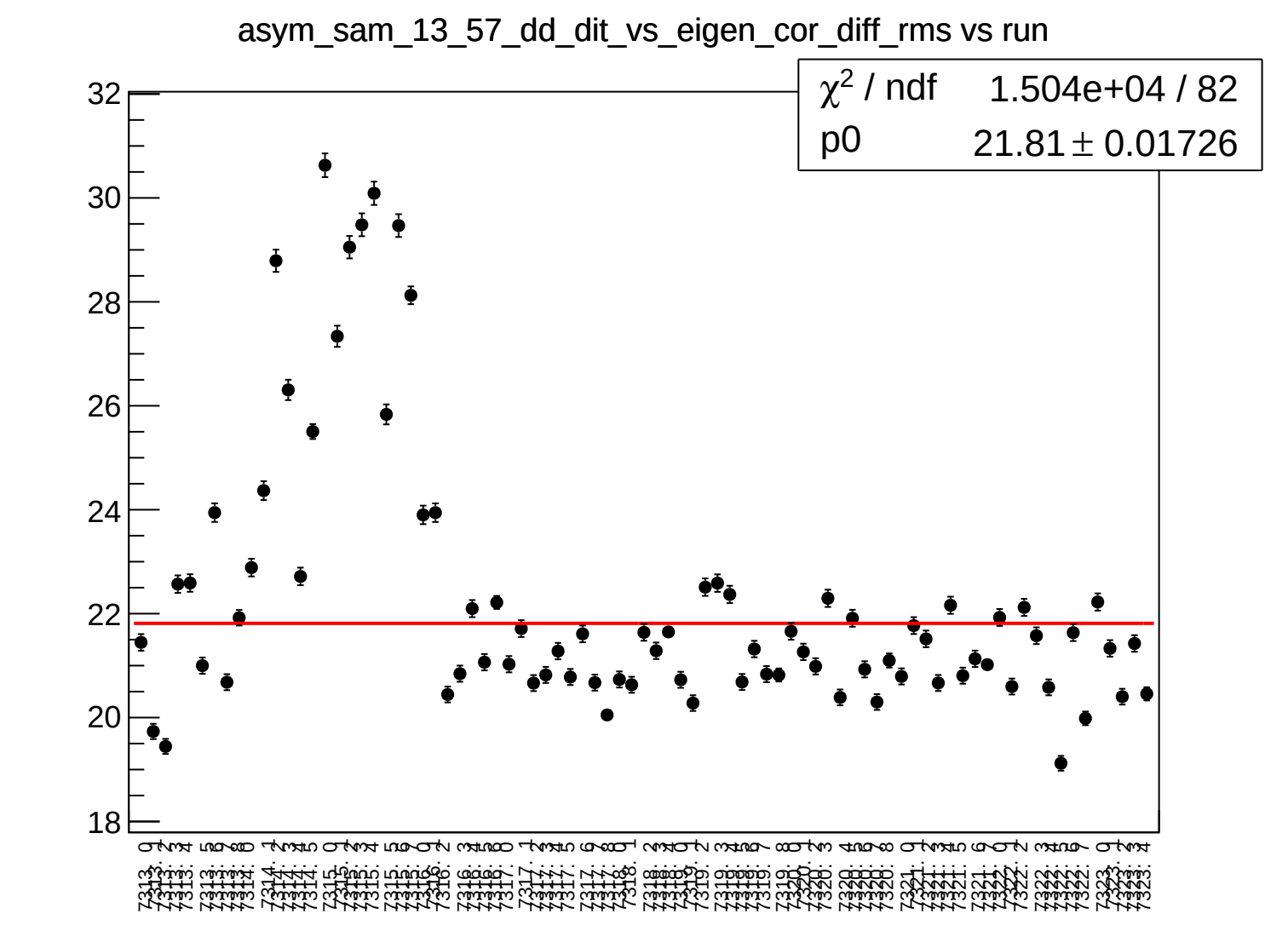

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.243e+06 / 82
p0 6.567e−12 ± 1.082e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

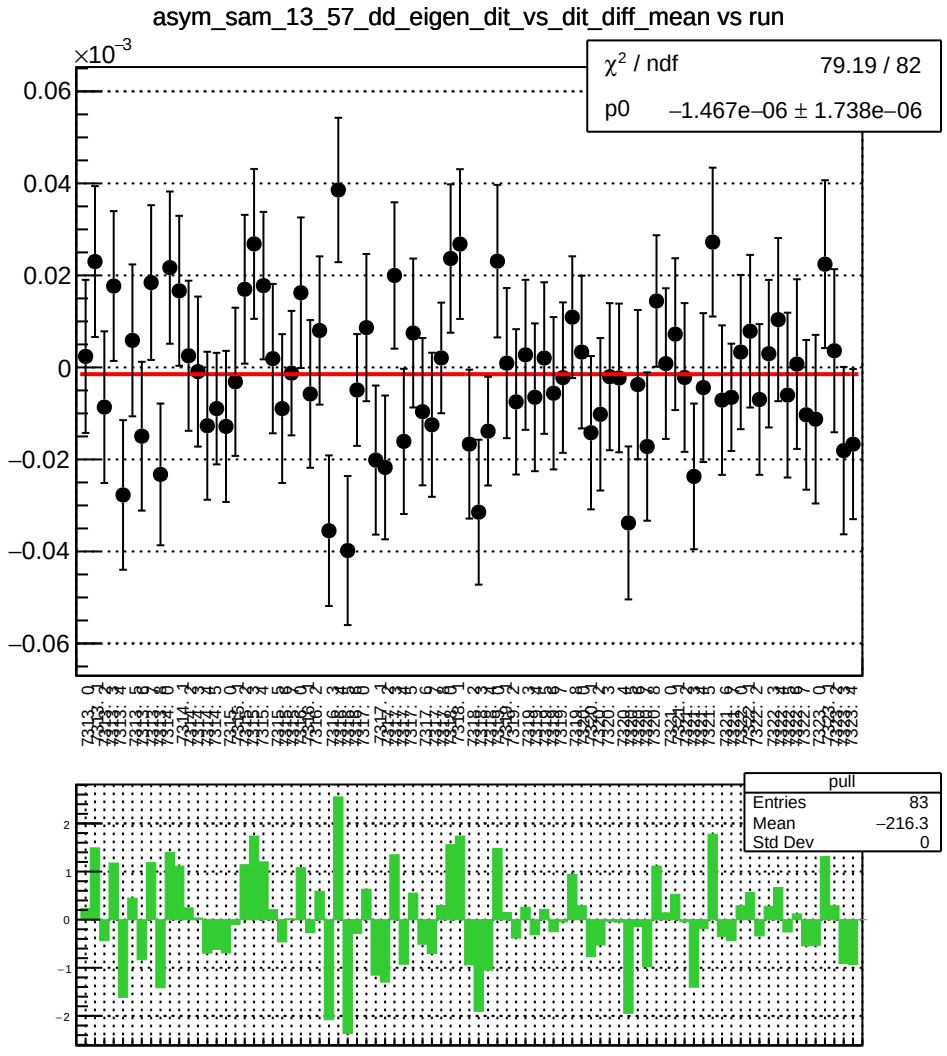

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.47 / 82
p0 −0.008354 ± 0.02442
pull
Entries 83
Mean 63.76
Std Dev 38.42

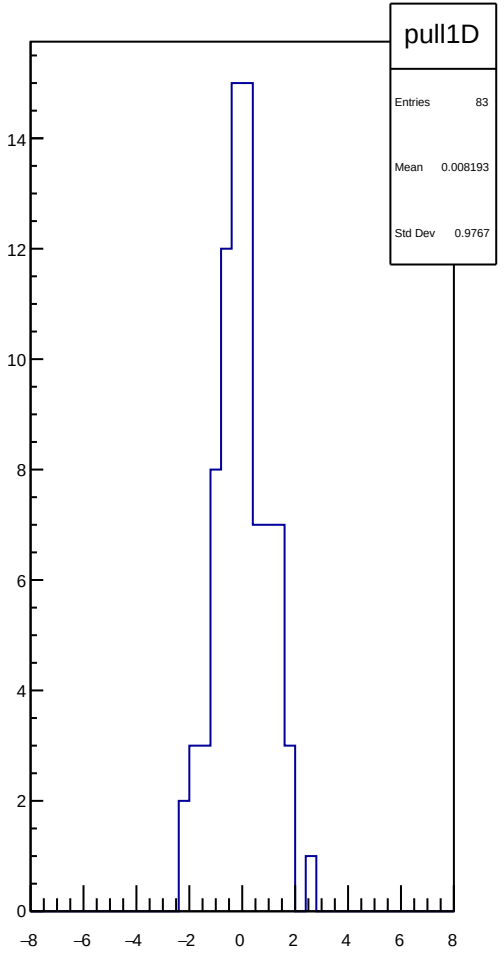

pull1D
Entries 83
Mean −0.02402
Std Dev 0.9658

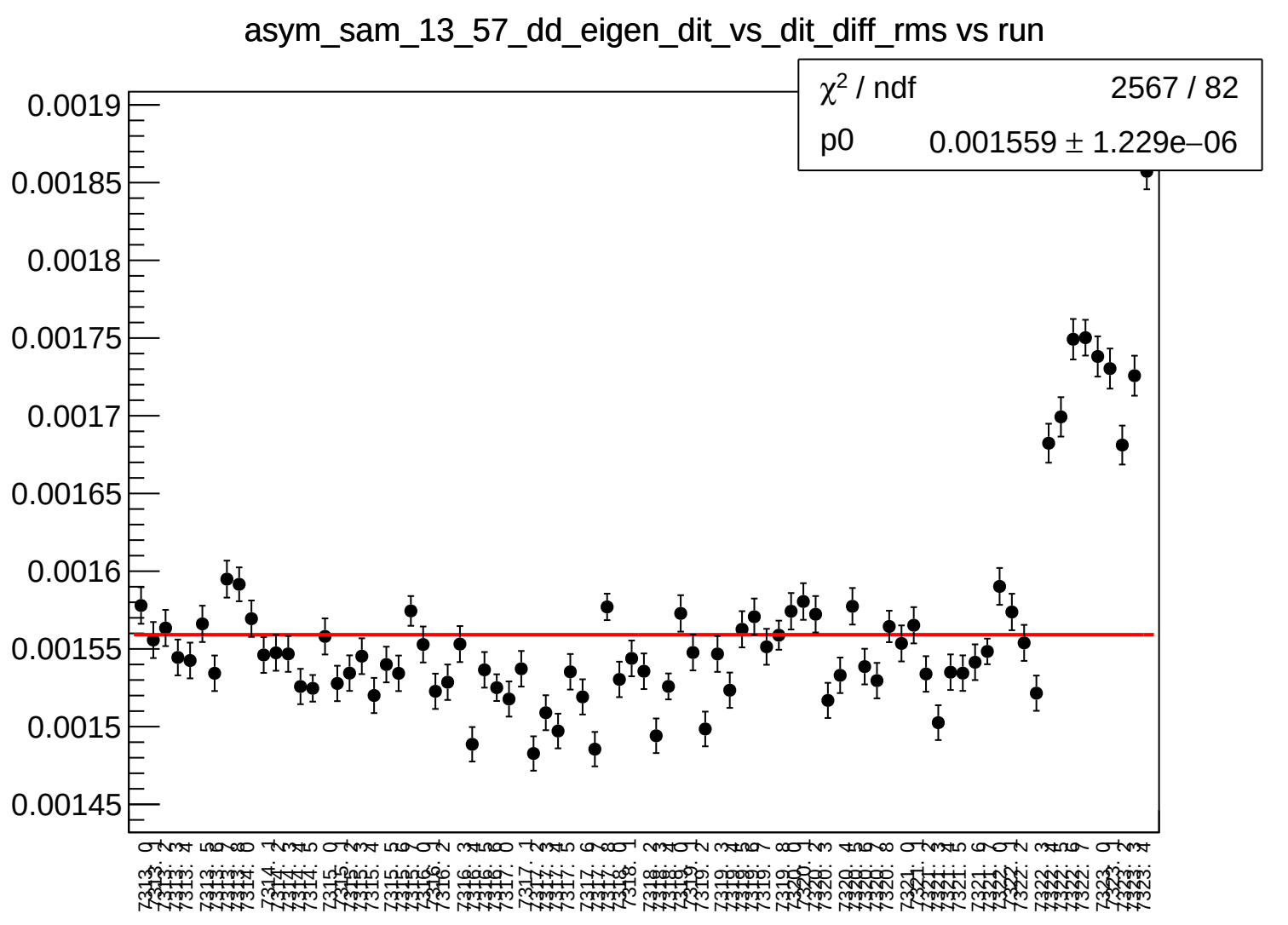

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 82
p0 21.81 ± 0.01726
32
30
28
26
24
22
20
18

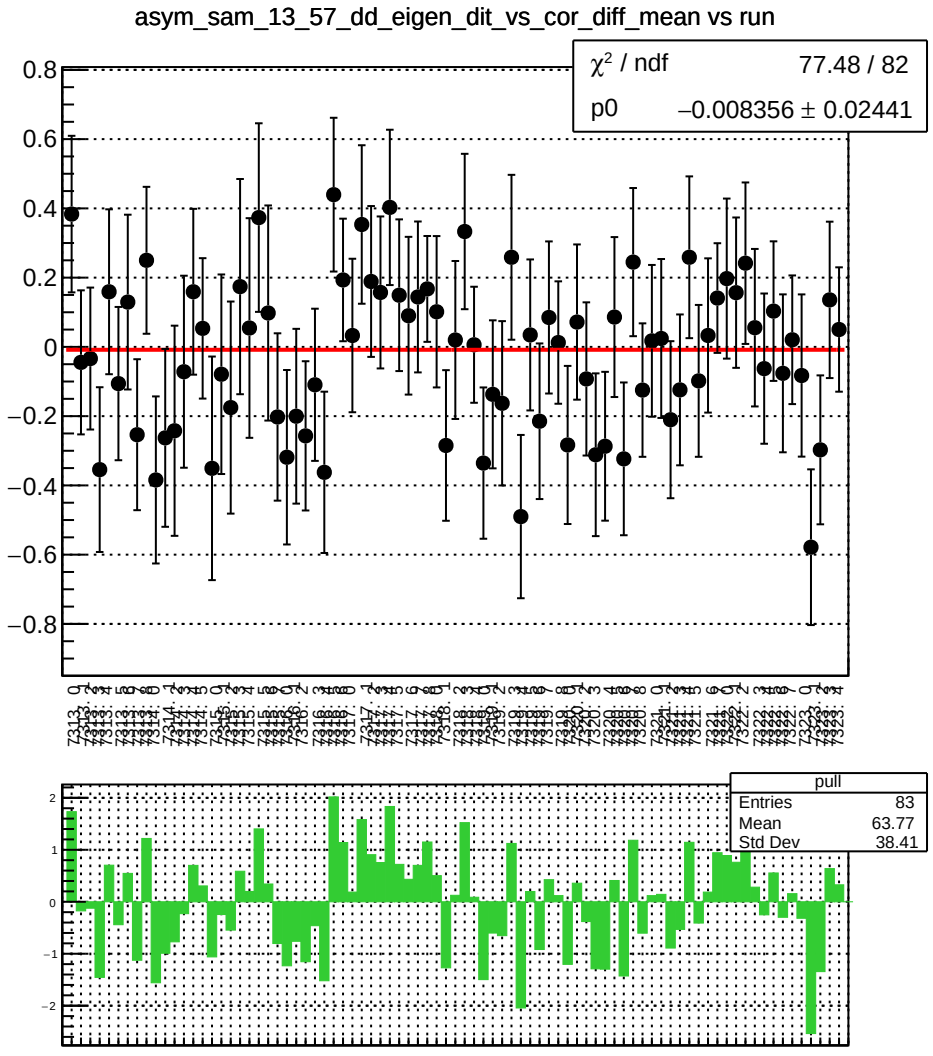

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.47 / 82
p0 −0.008354 ± 0.02442
pull
Entries 83
Mean 63.76
Std Dev 38.42
pull1D
Entries 83
Mean −0.02402
Std Dev 0.9658

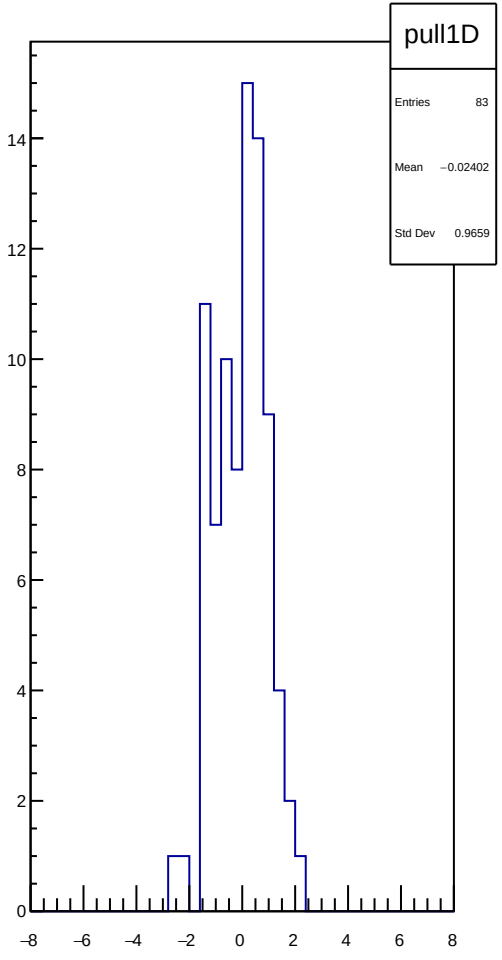

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 82
p0 21.81 ± 0.01726
32
30
28
26
24
22
20
18

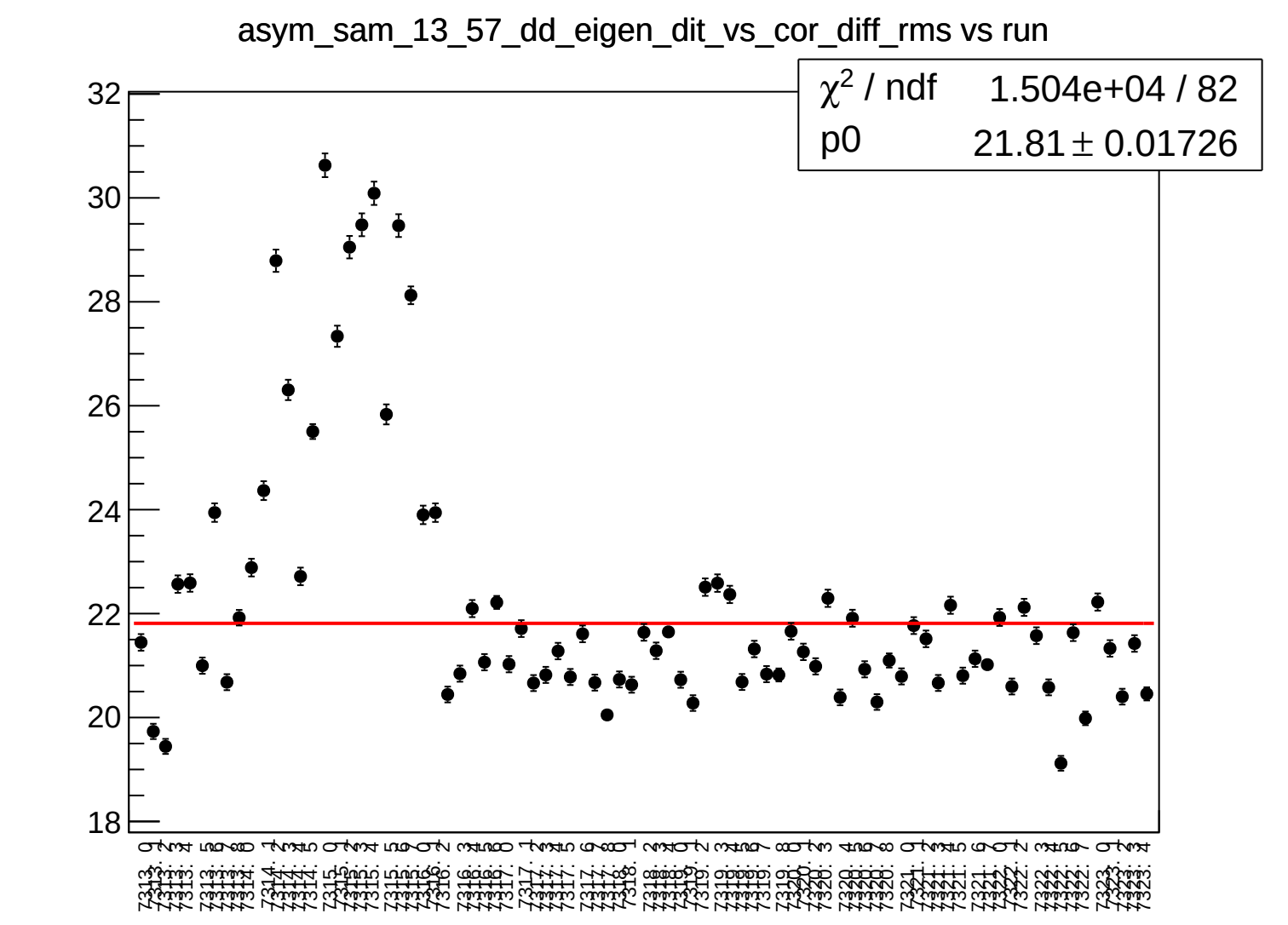

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.19 / 82
p0 −1.467e−06 ± 1.738e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean −216.3
Std Dev 0
2
1
0
−1
−2

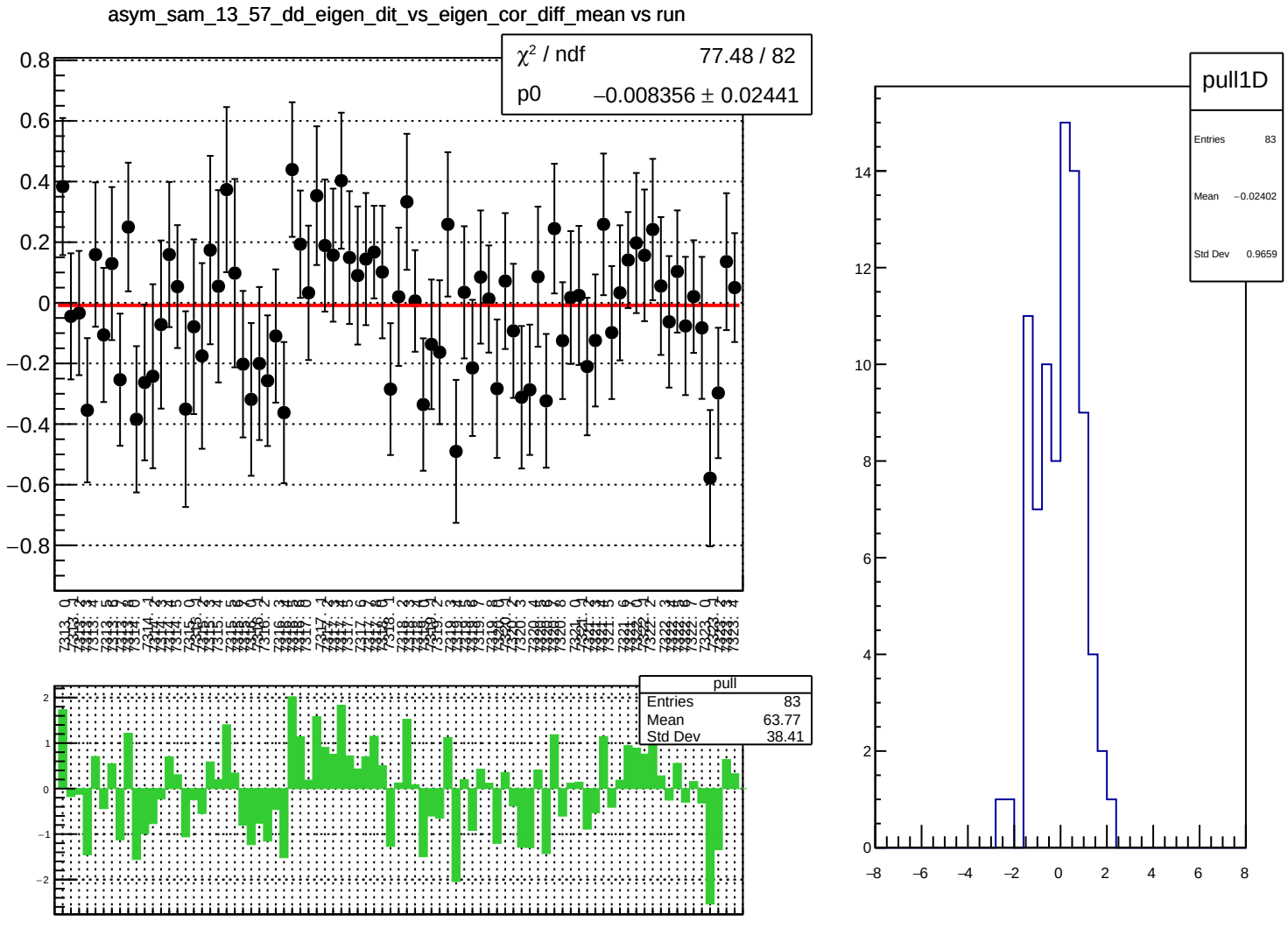

pull1D
Entries 83
Mean 0.008193
Std Dev 0.9767
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

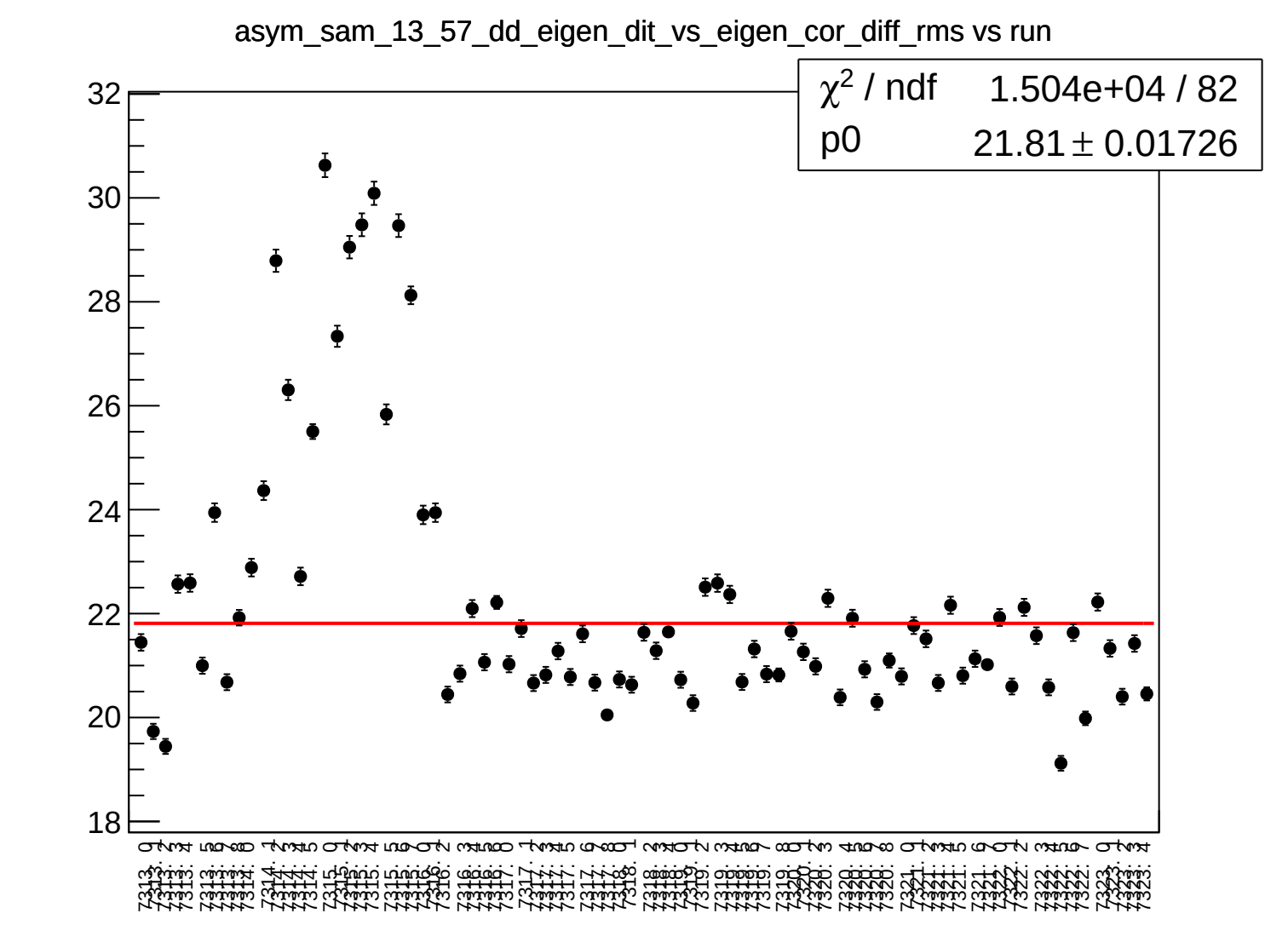

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2567 / 82
p0 0.001559 ± 1.229e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

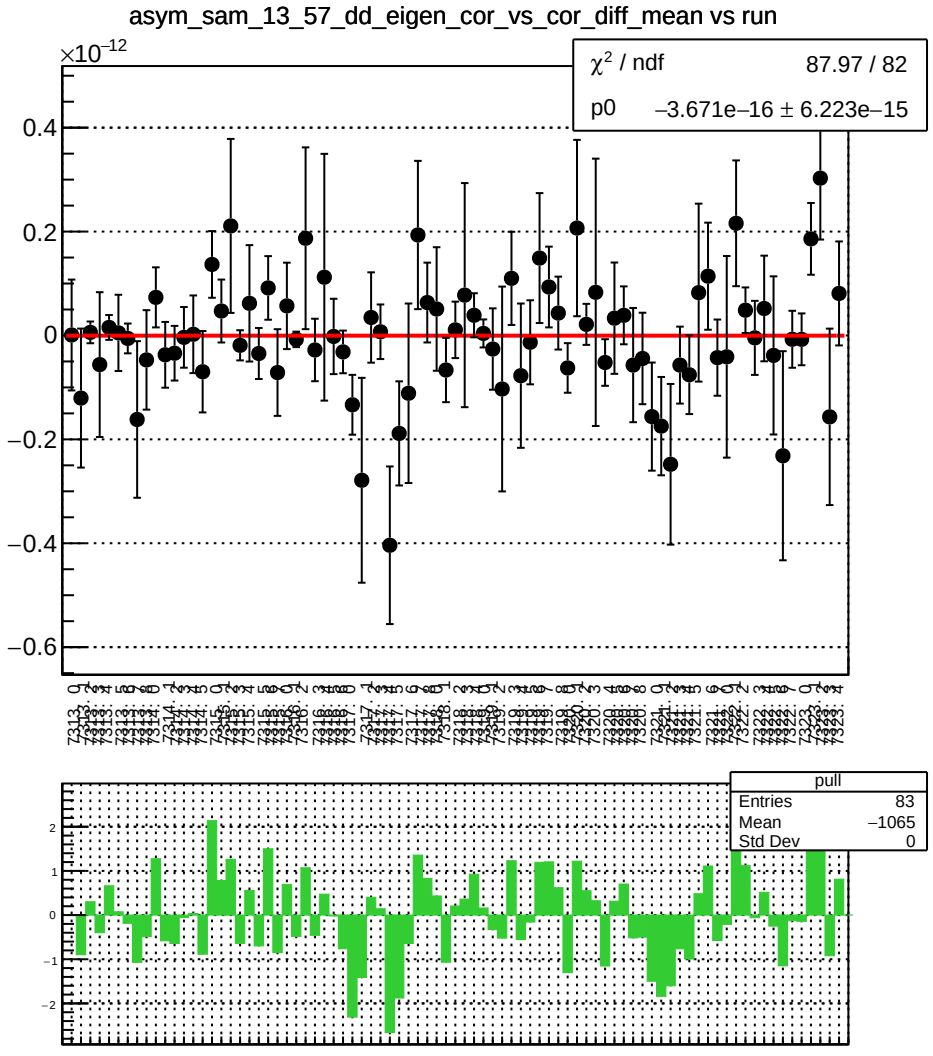

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.48 / 82
p0 −0.008356 ± 0.02441
pull
Entries 83
Mean 63.77
Std Dev 38.41

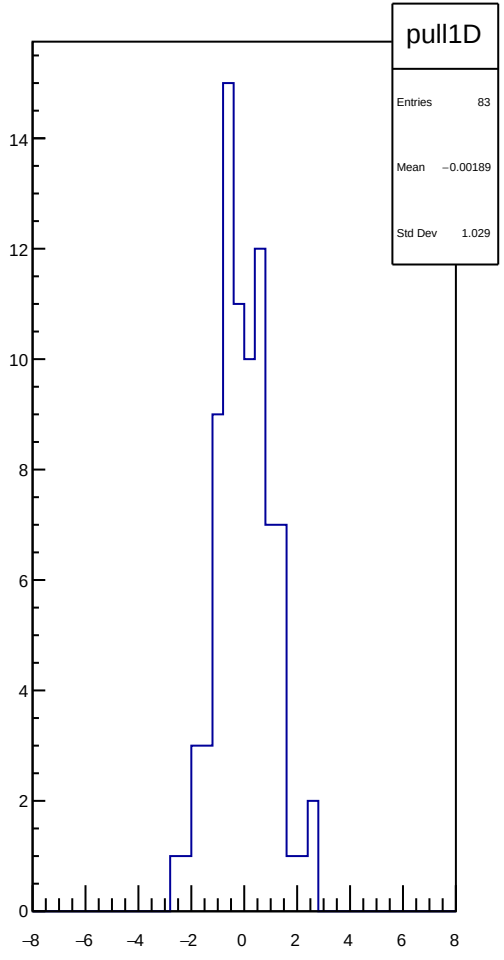

pull1D
Entries 83
Mean −0.02402
Std Dev 0.9659

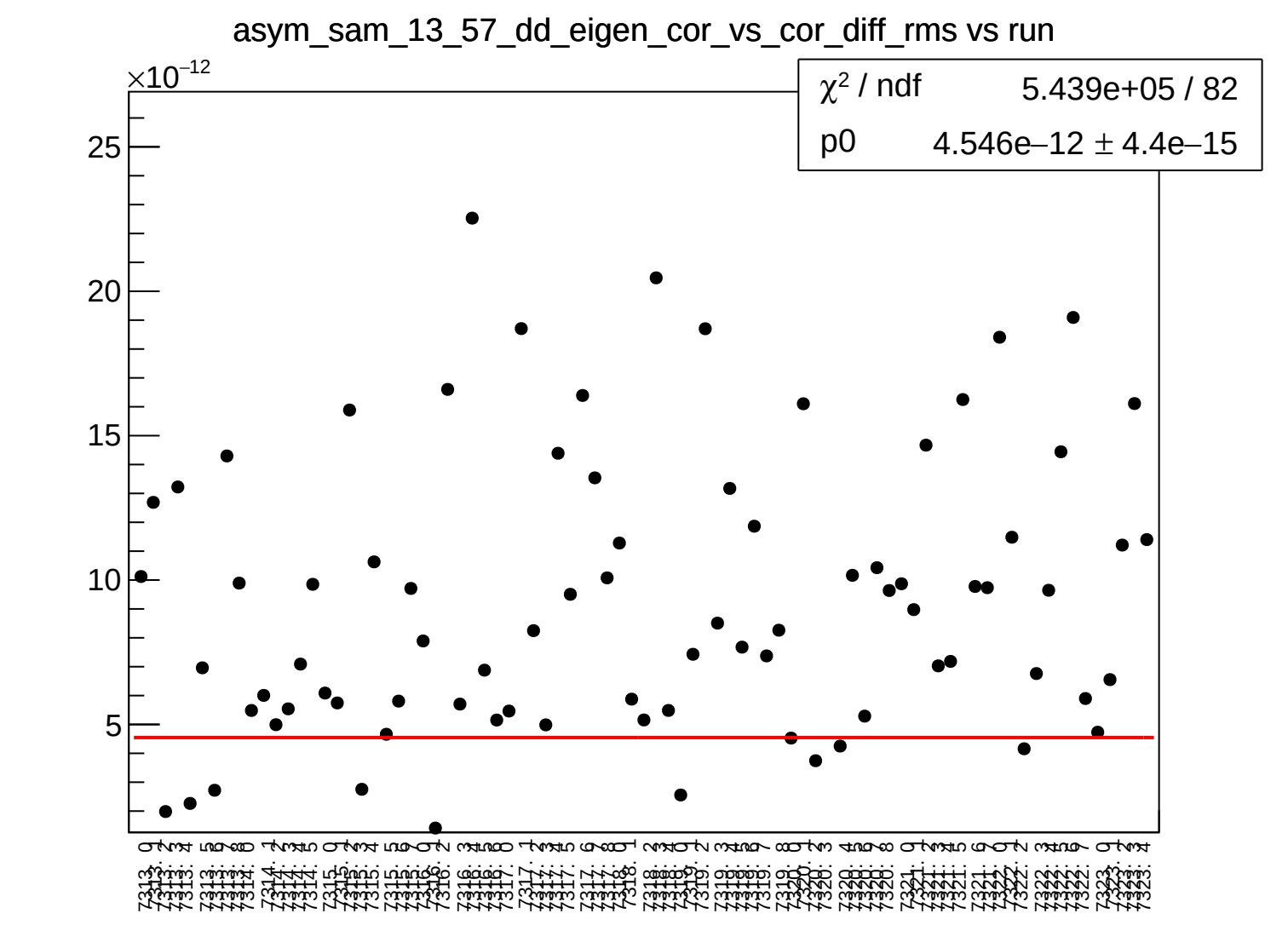

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 82
p0 21.81 ± 0.01726
32
30
28
26
24
22
20
18

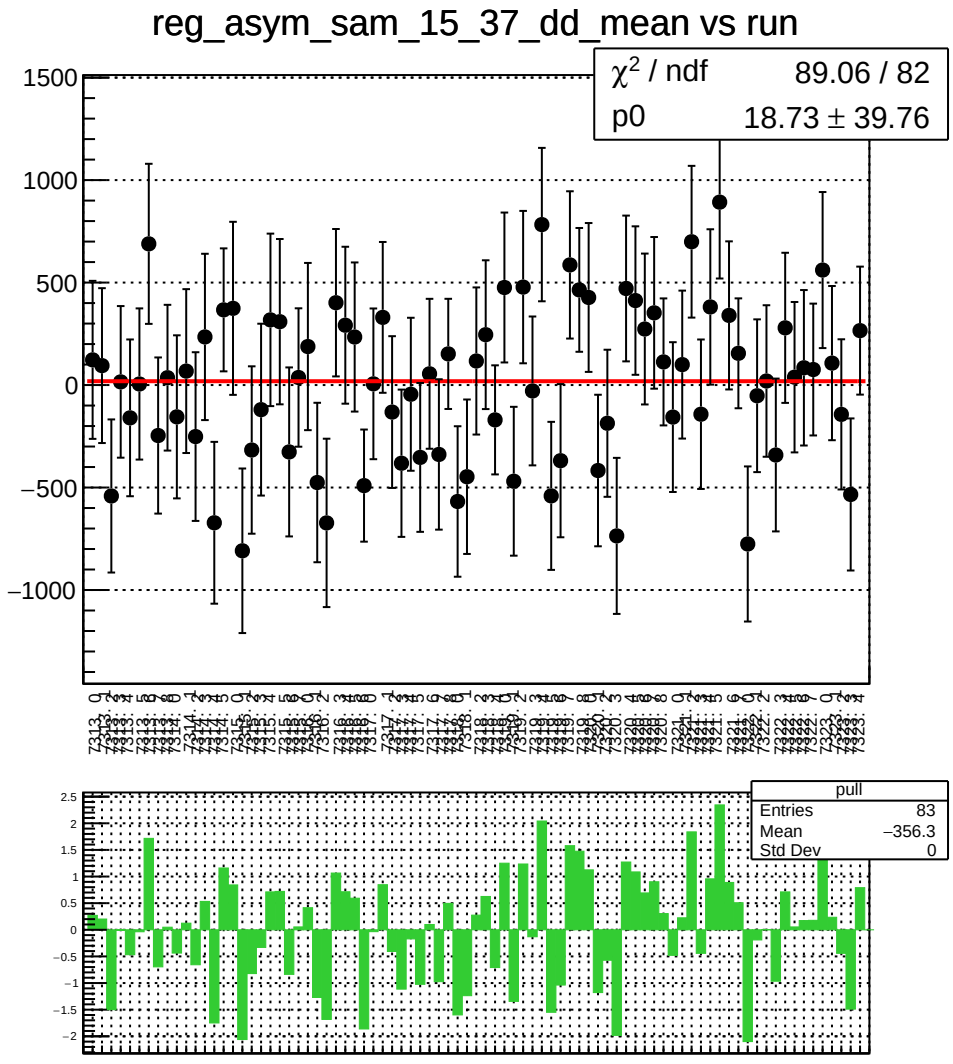

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.48 / 82
p0 −0.008356 ± 0.02441
pull
Entries 83
Mean 63.77
Std Dev 38.41
pull1D
Entries 83
Mean −0.02402
Std Dev 0.9659

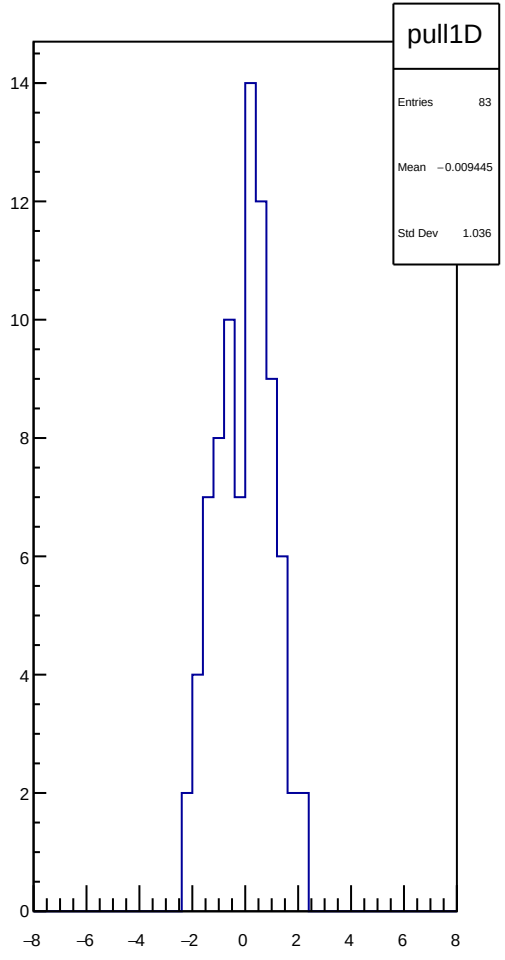

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 82
p0 21.81 ± 0.01726
32
30
28
26
24
22
20
18

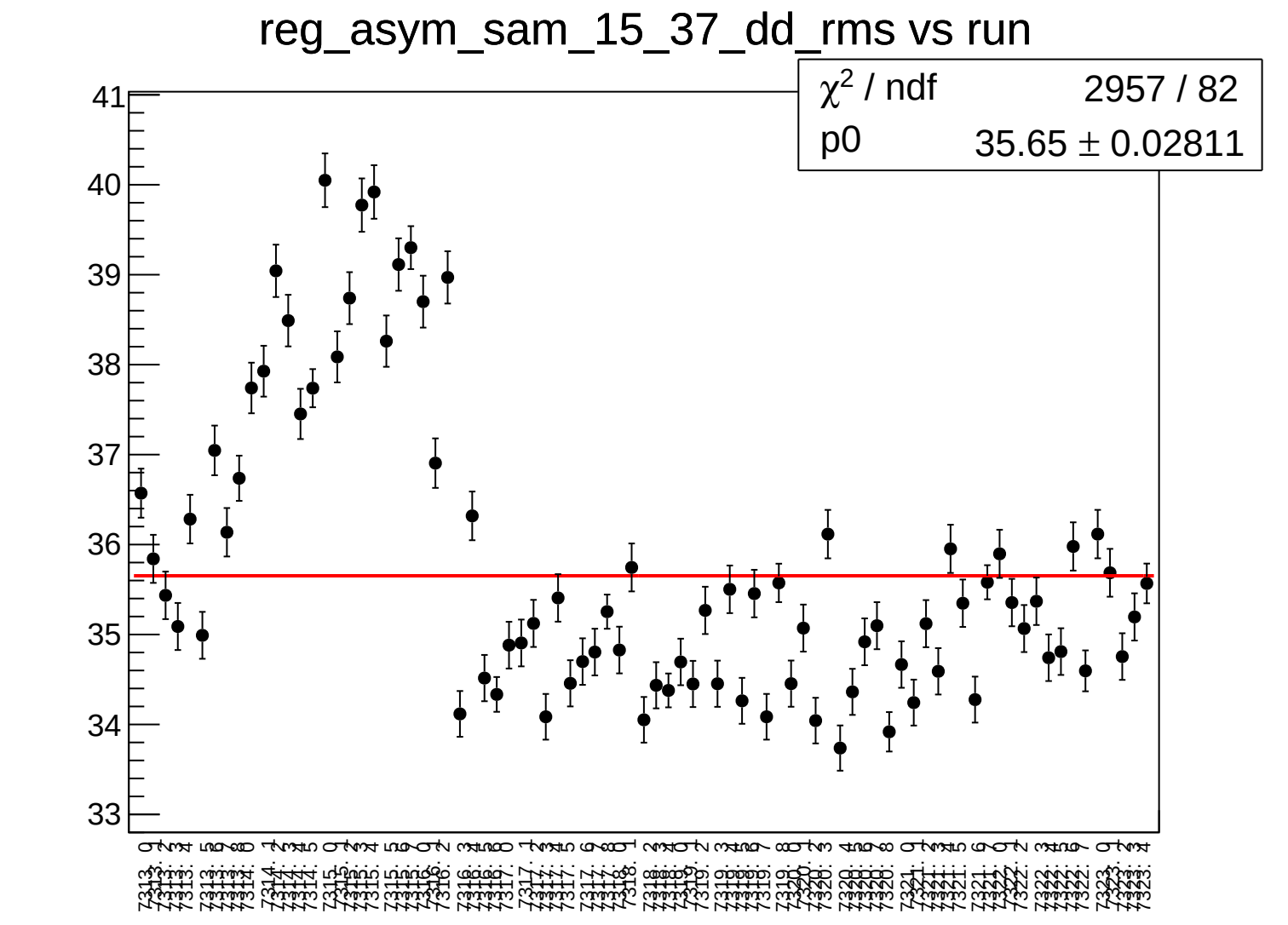

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.97 / 82
p0 −3.671e−16 ± 6.223e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 83
Mean −1065
Std Dev 0
2
1
0
−1
−2

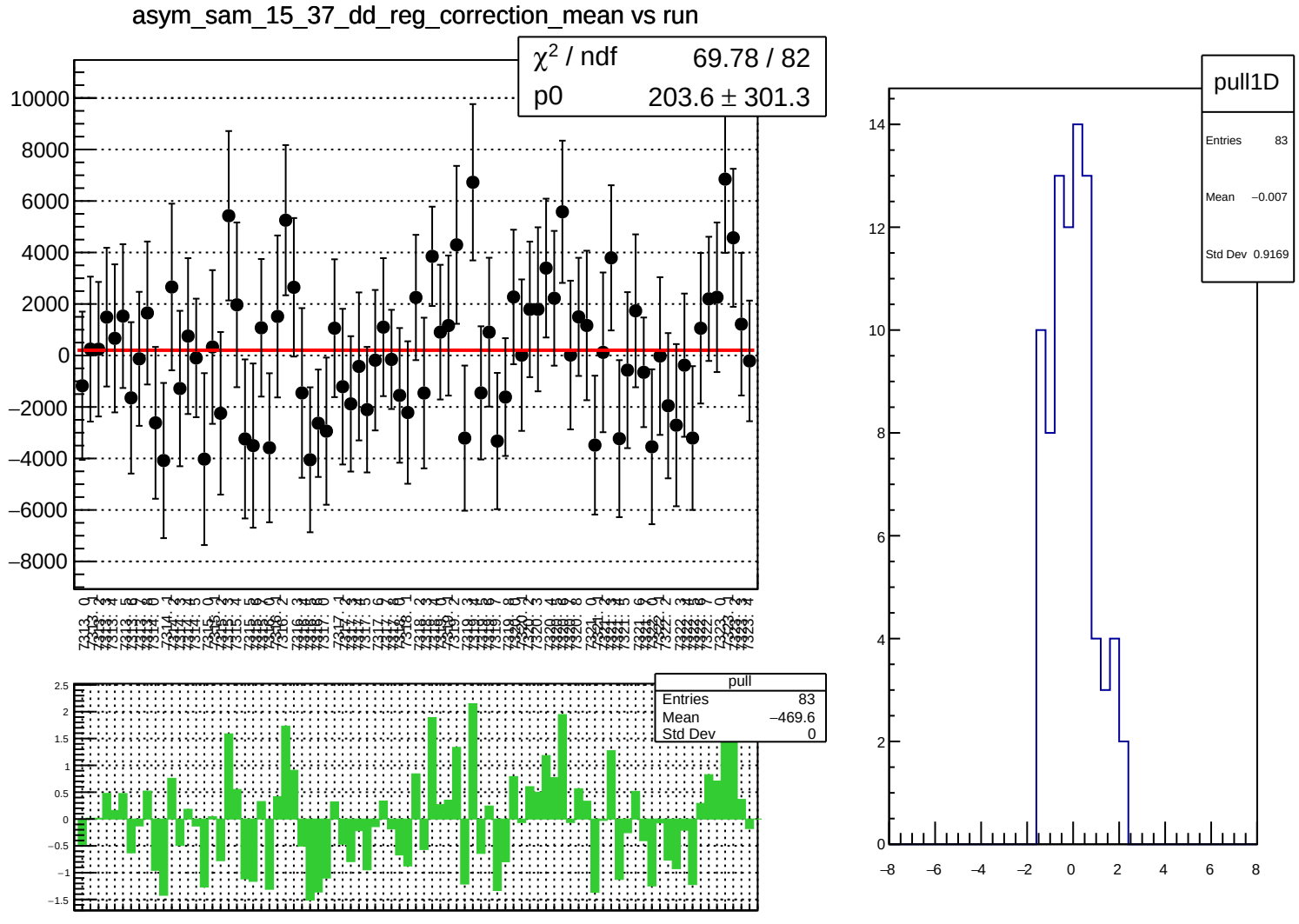

pull1D
Entries 83
Mean −0.00189
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

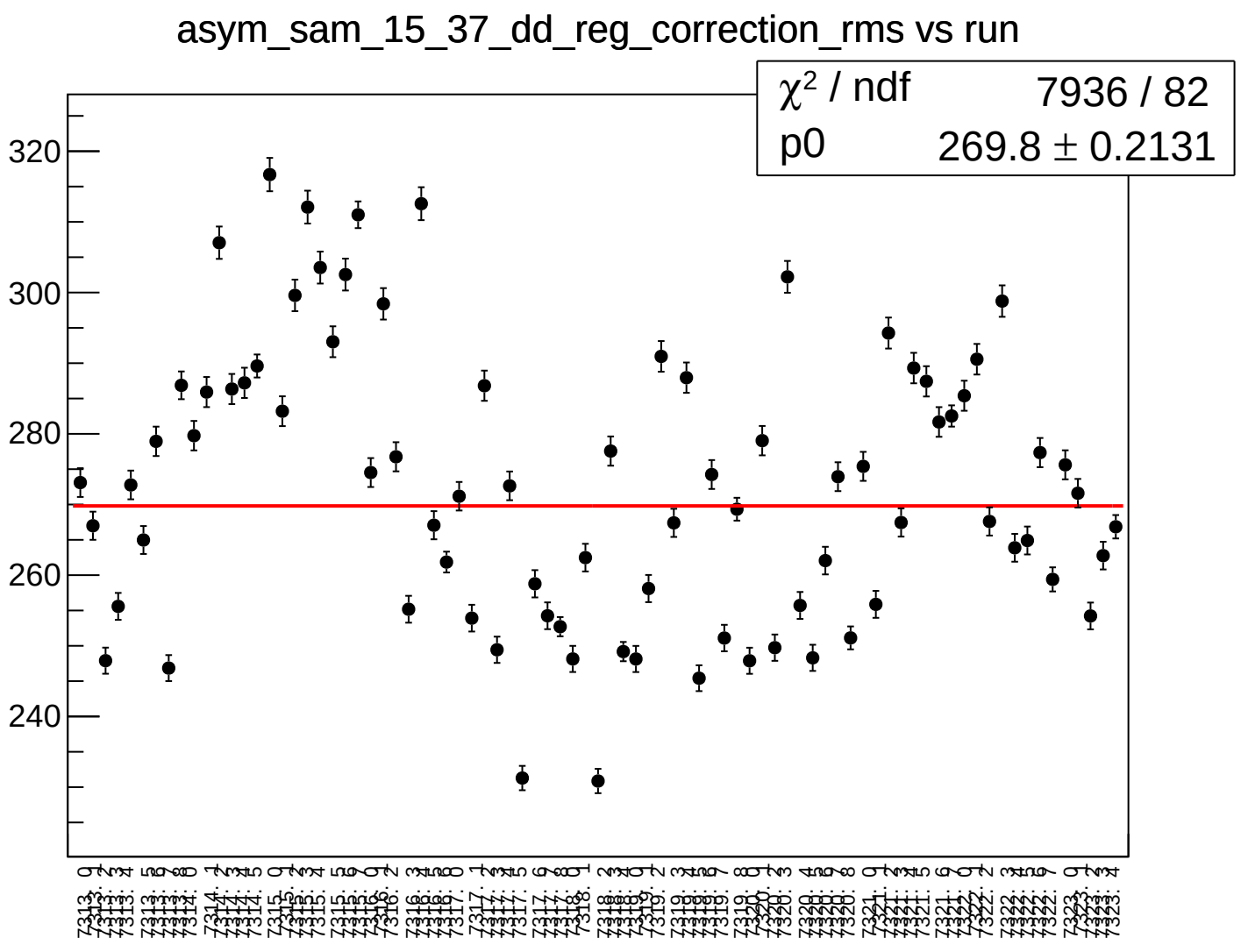

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.439e+05 / 82
p0 4.546e−12 ± 4.4e−15
25
20
15
10
5

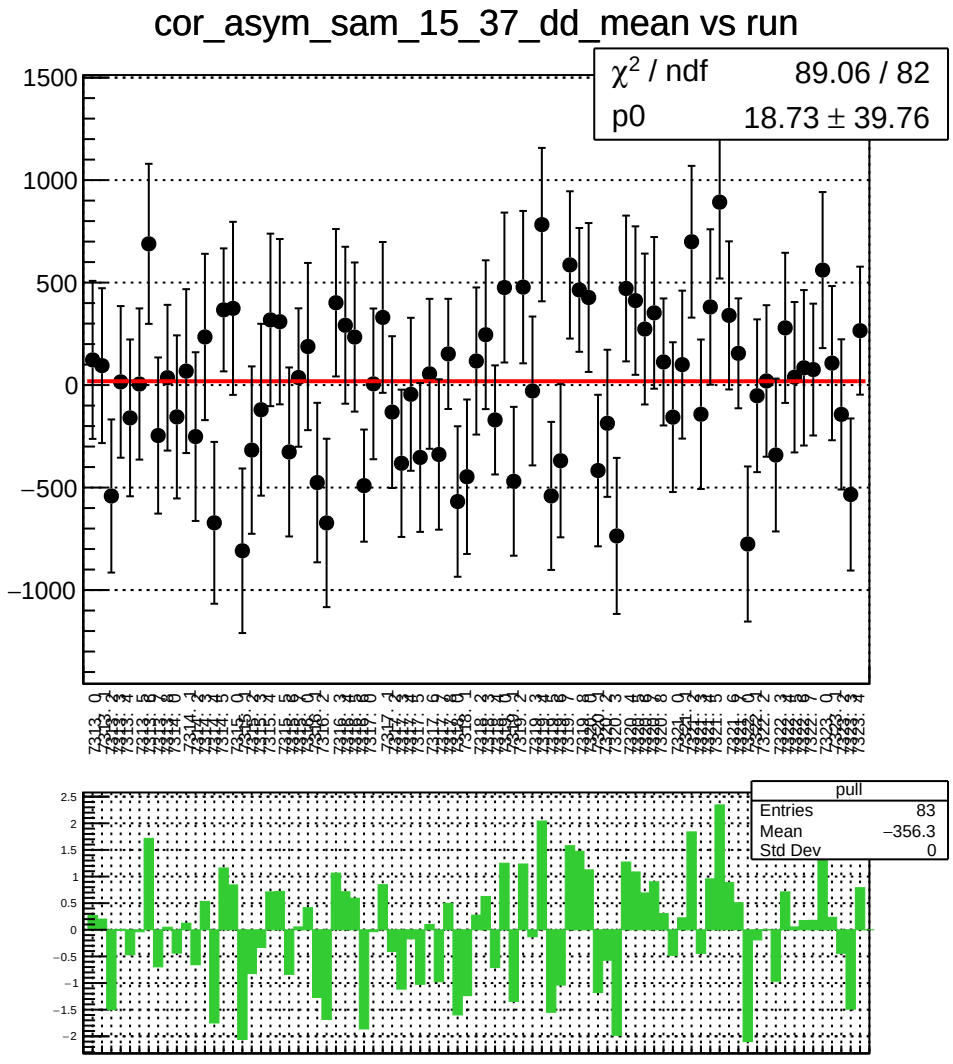

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.06 / 82
p0 18.73 ± 39.76
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean −356.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

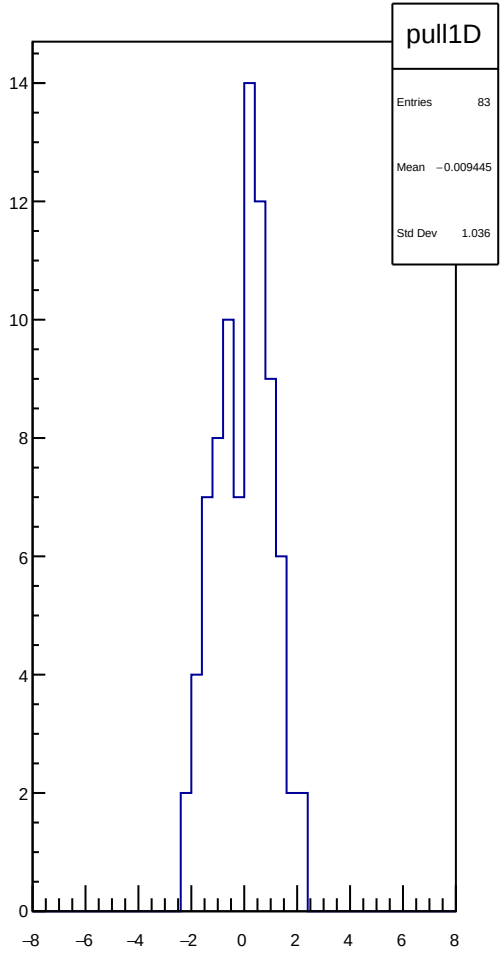

pull1D
Entries 83
Mean −0.009445
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

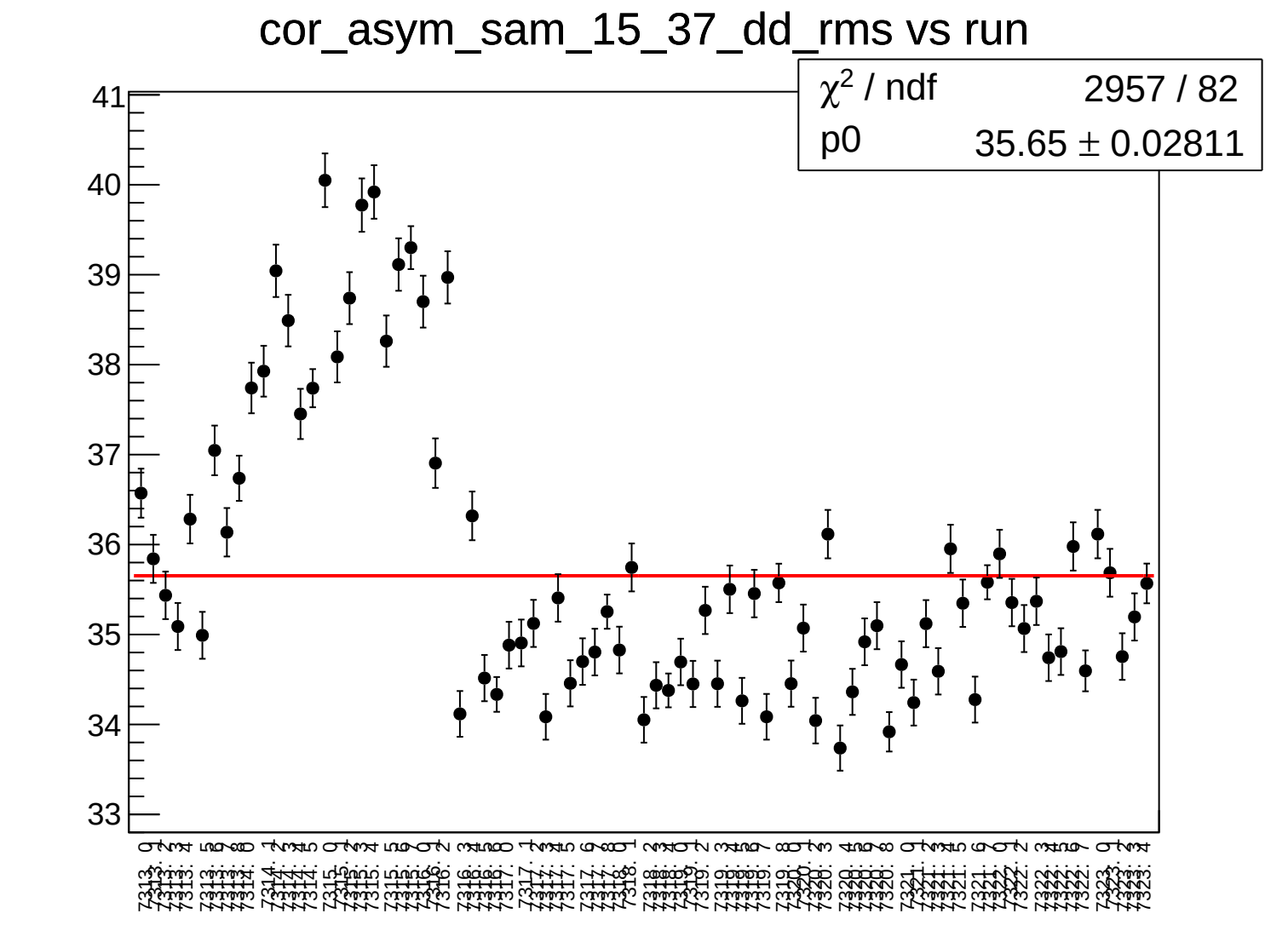

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2957 / 82
p0 35.65 ± 0.02811
41
40
39
38
37
36
35
34
33

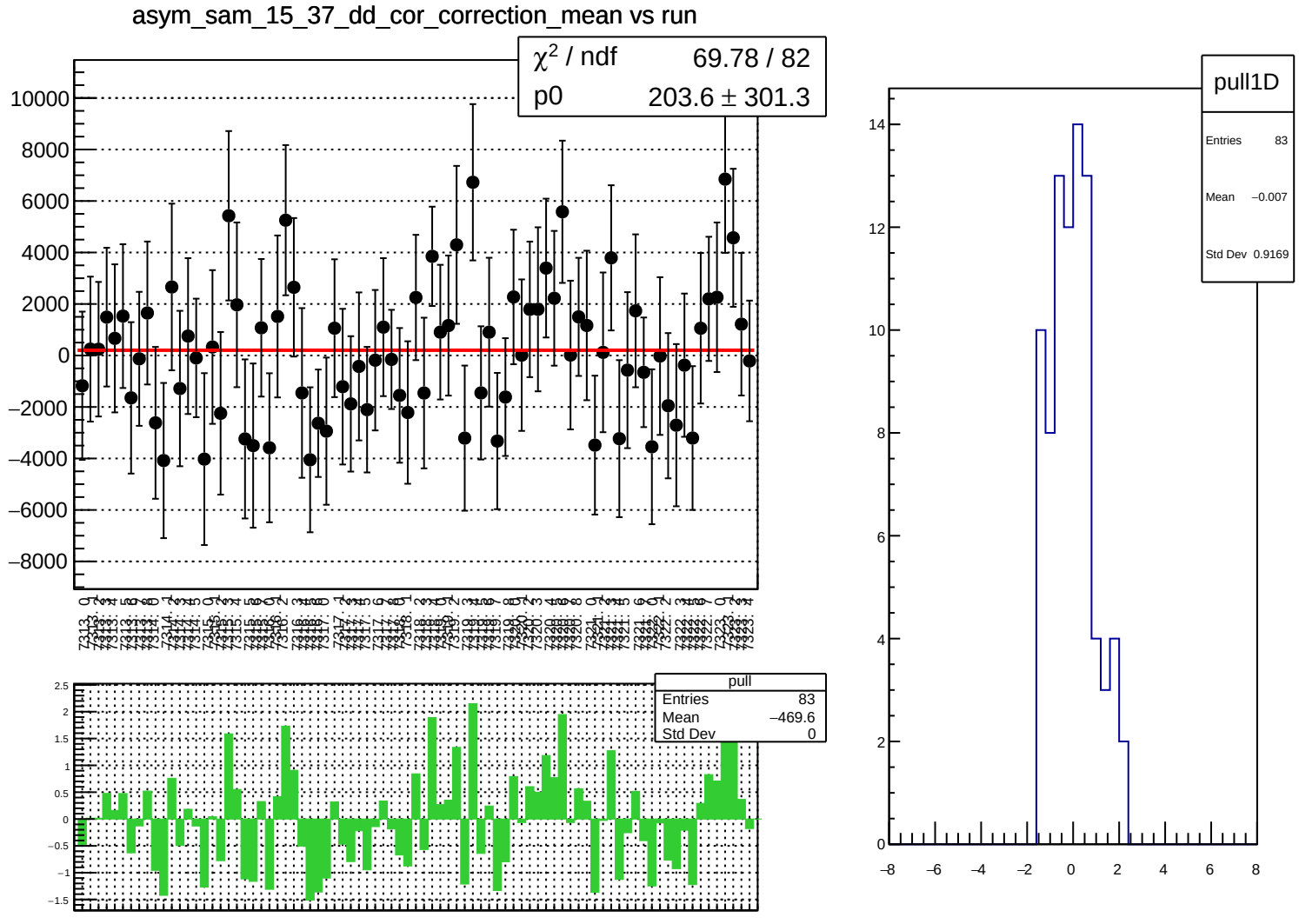

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 69.78 / 82
p0 203.6 ± 301.3
pull
Entries 83
Mean −469.6
Std Dev 0
pull1D
Entries 83
Mean −0.007
Std Dev 0.9169

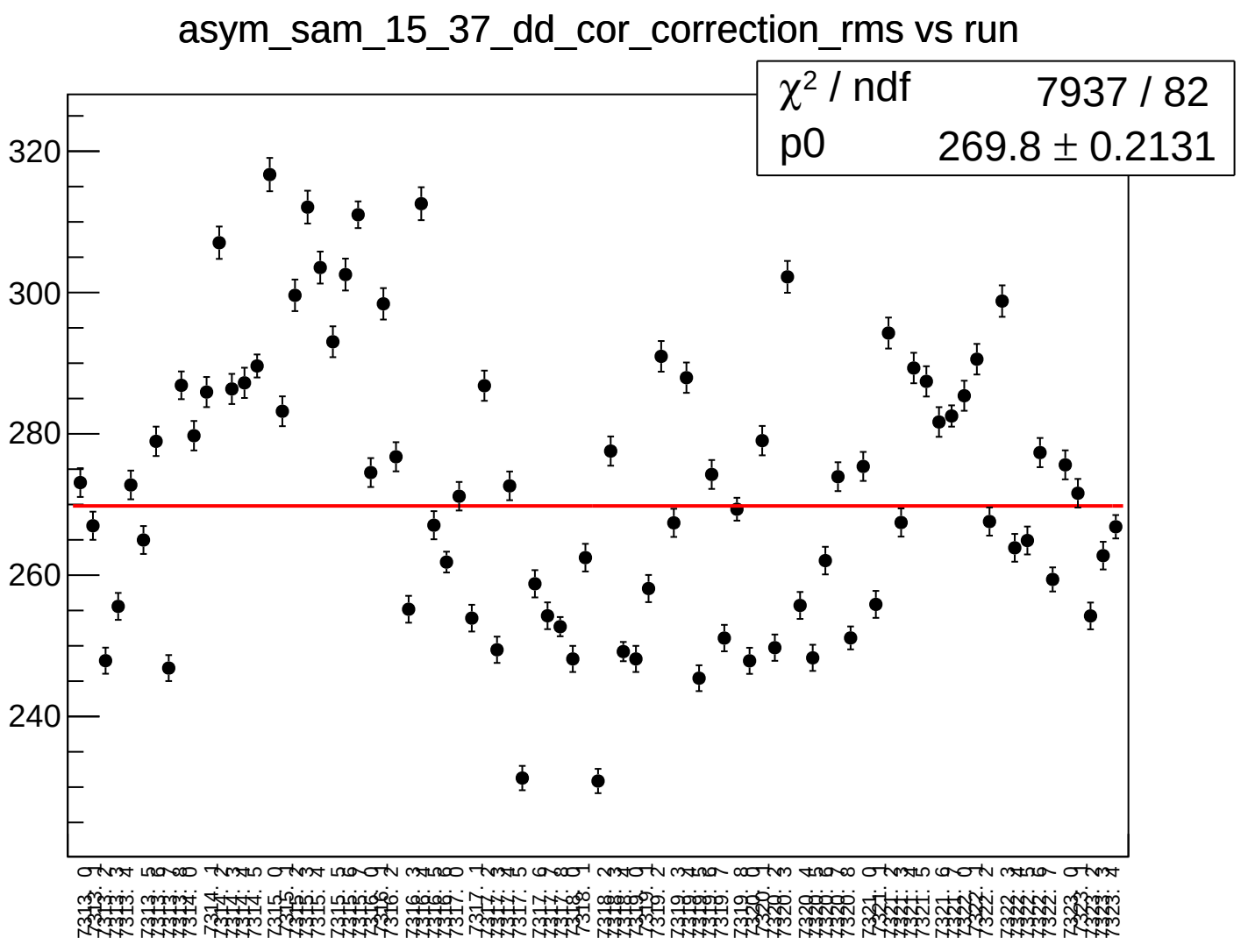

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 7936 / 82
p0 269.8 ± 0.2131
320
300
280
260
240

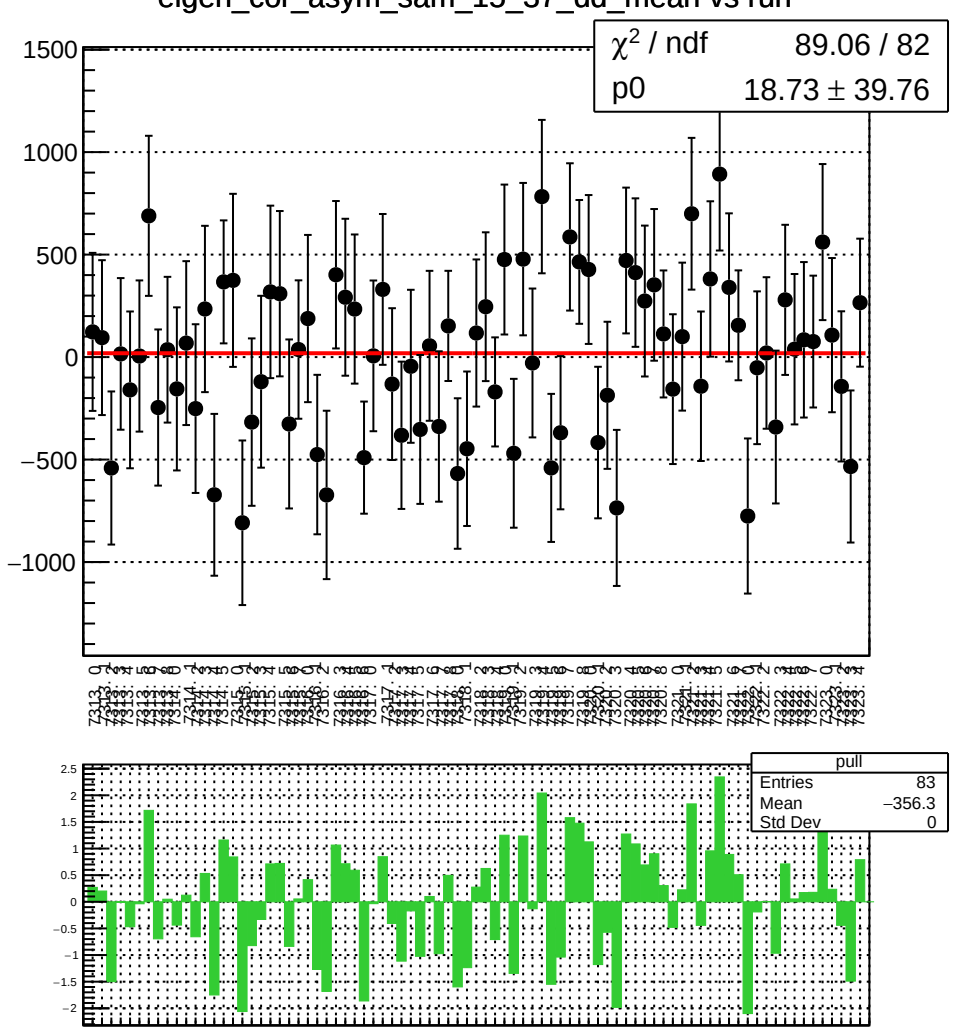

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.06 / 82
p0 18.73 ± 39.76
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean −356.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

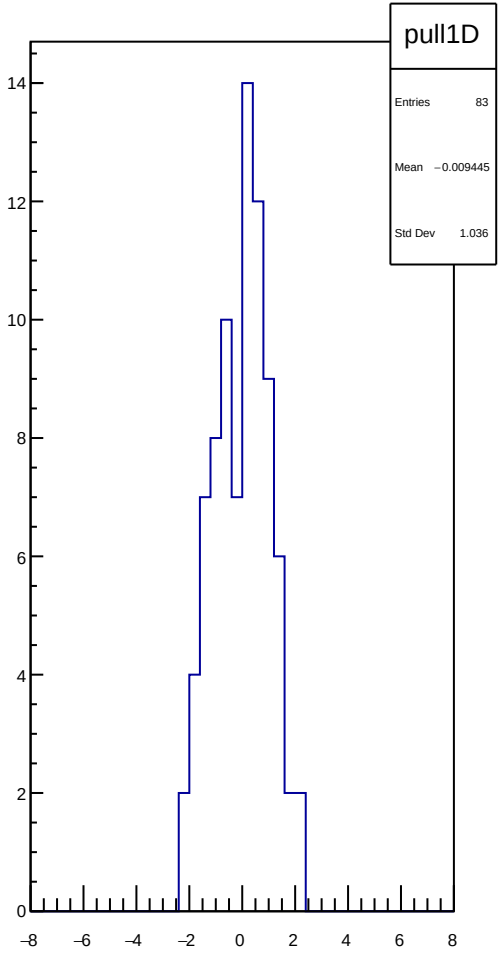

pull1D
Entries 83
Mean −0.009445
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

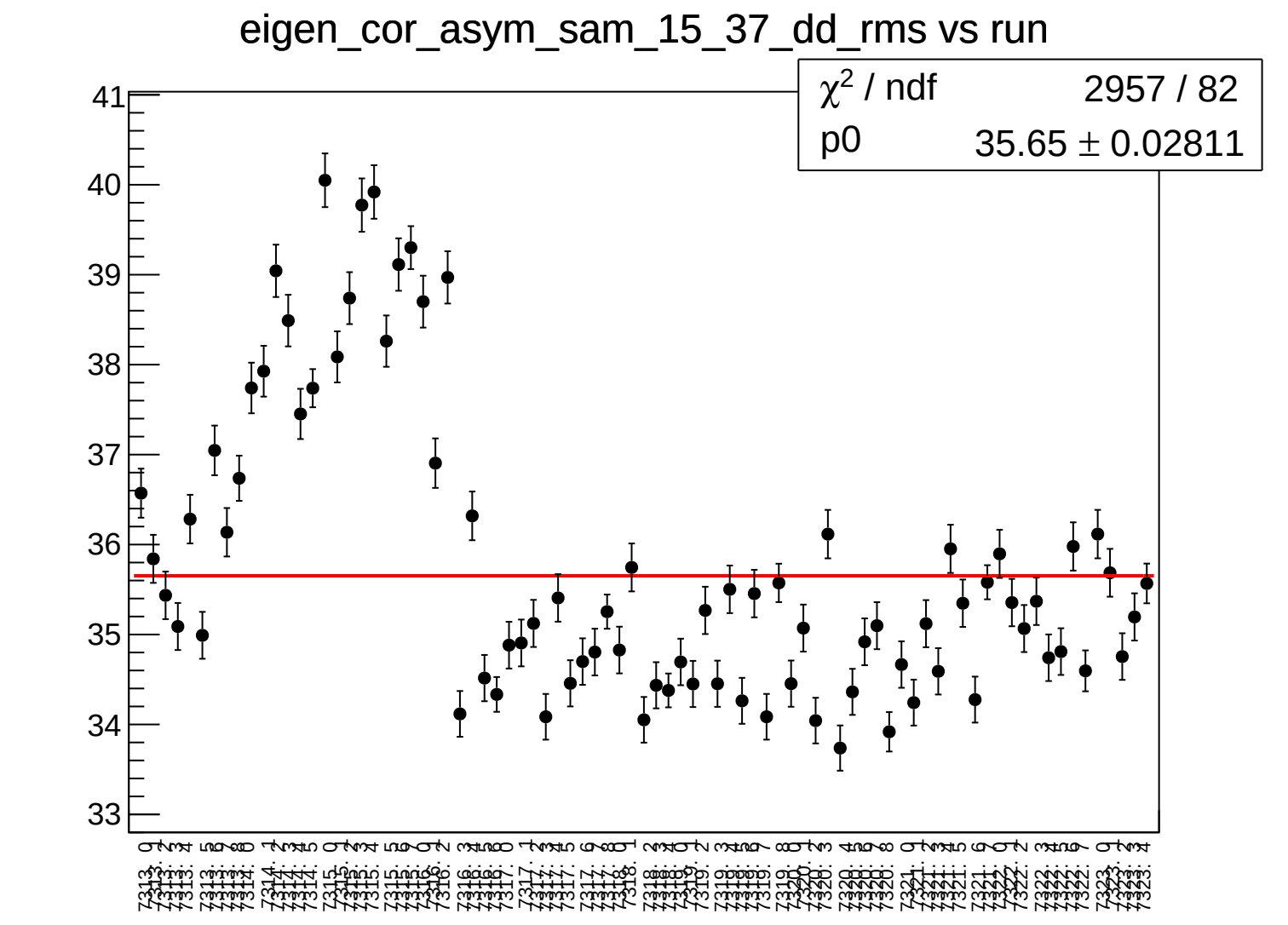

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2957 / 82
p0 35.65 ± 0.02811
41
40
39
38
37
36
35
34
33

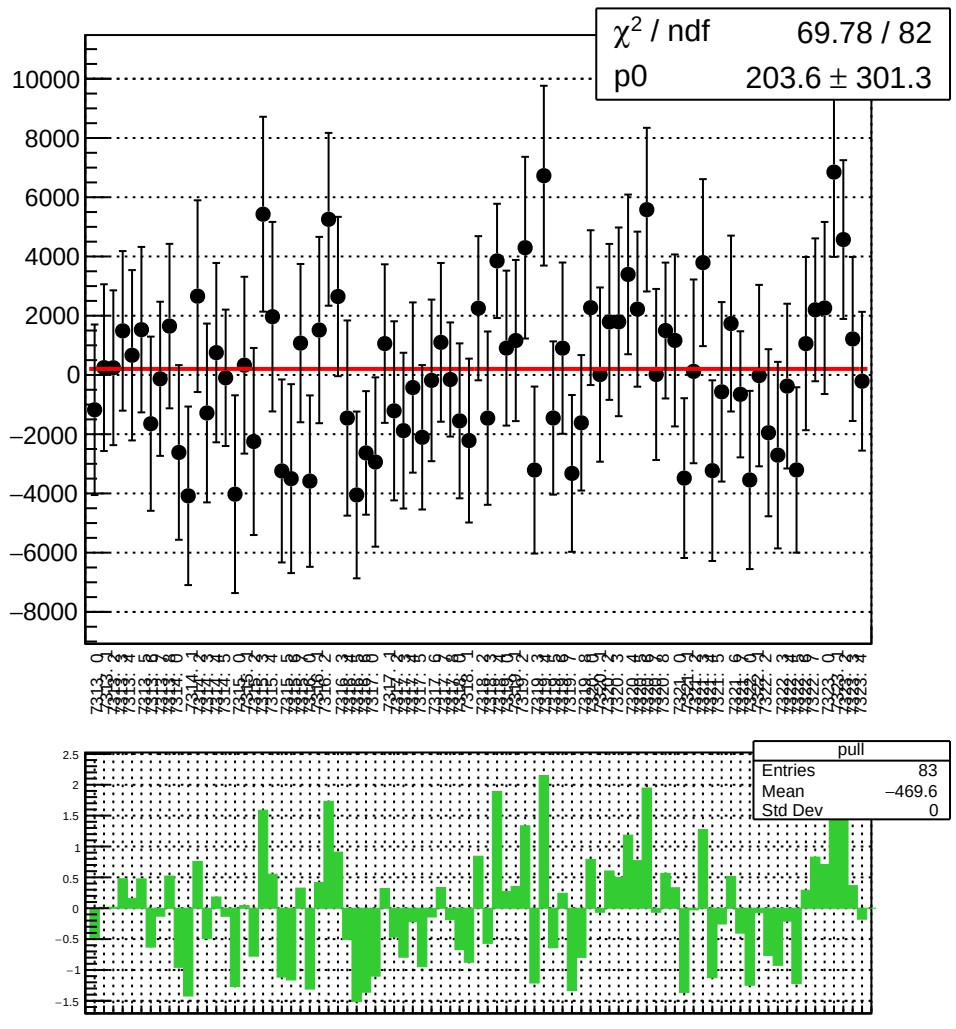

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 69.78 / 82
p0 203.6 ± 301.3
pull
Entries 83
Mean −469.6
Std Dev 0
pull1D
Entries 83
Mean −0.007
Std Dev 0.9169

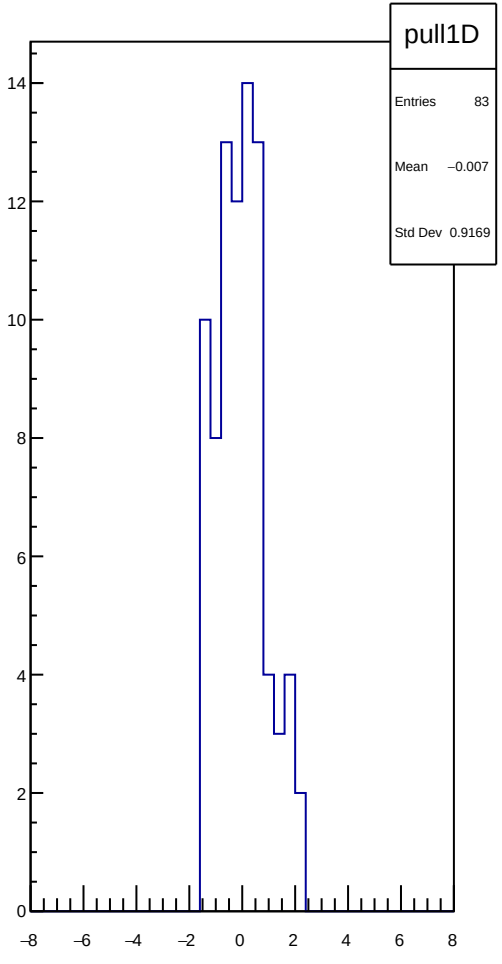

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 7937 / 82
p0 269.8 ± 0.2131
320
300
280
260
240

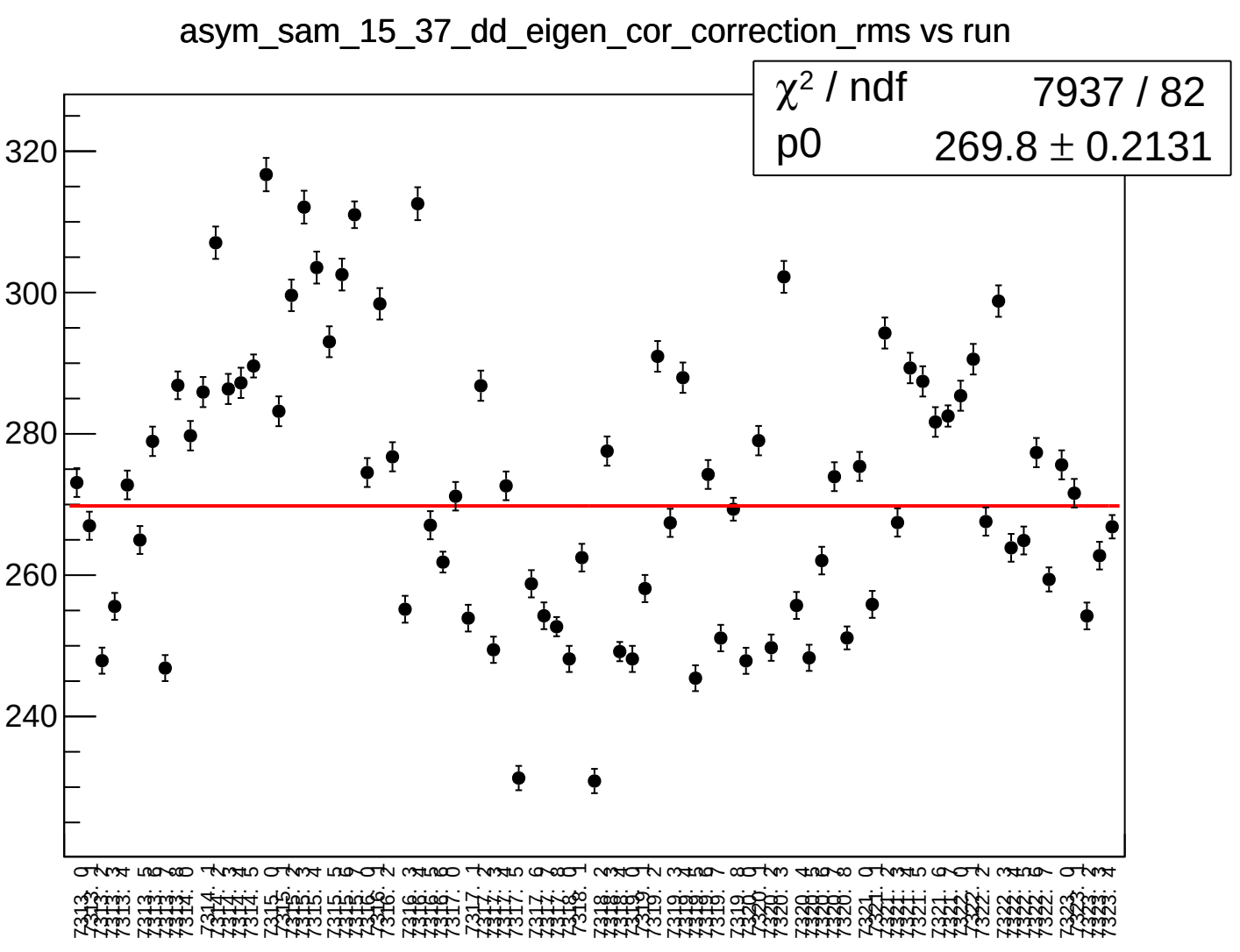

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 89.06 / 82
p0 18.73 ± 39.76
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean −356.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

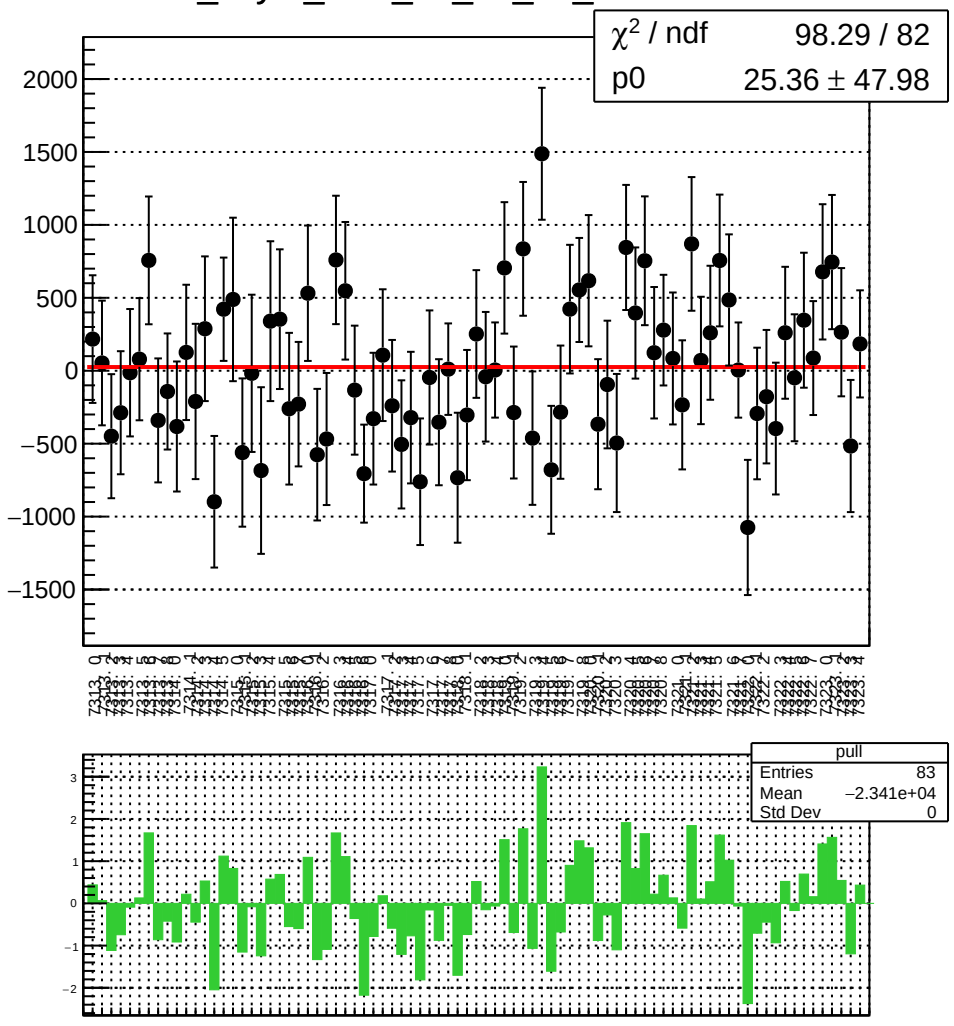

pull1D
Entries 83
Mean −0.009445
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

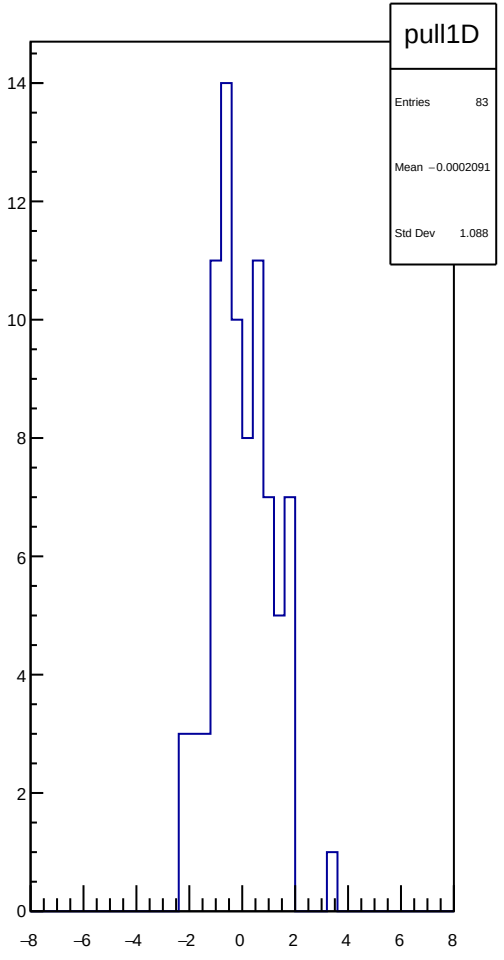

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2957 / 82
p0 35.65 ± 0.02811
41
40
39
38
37
36
35
34
33

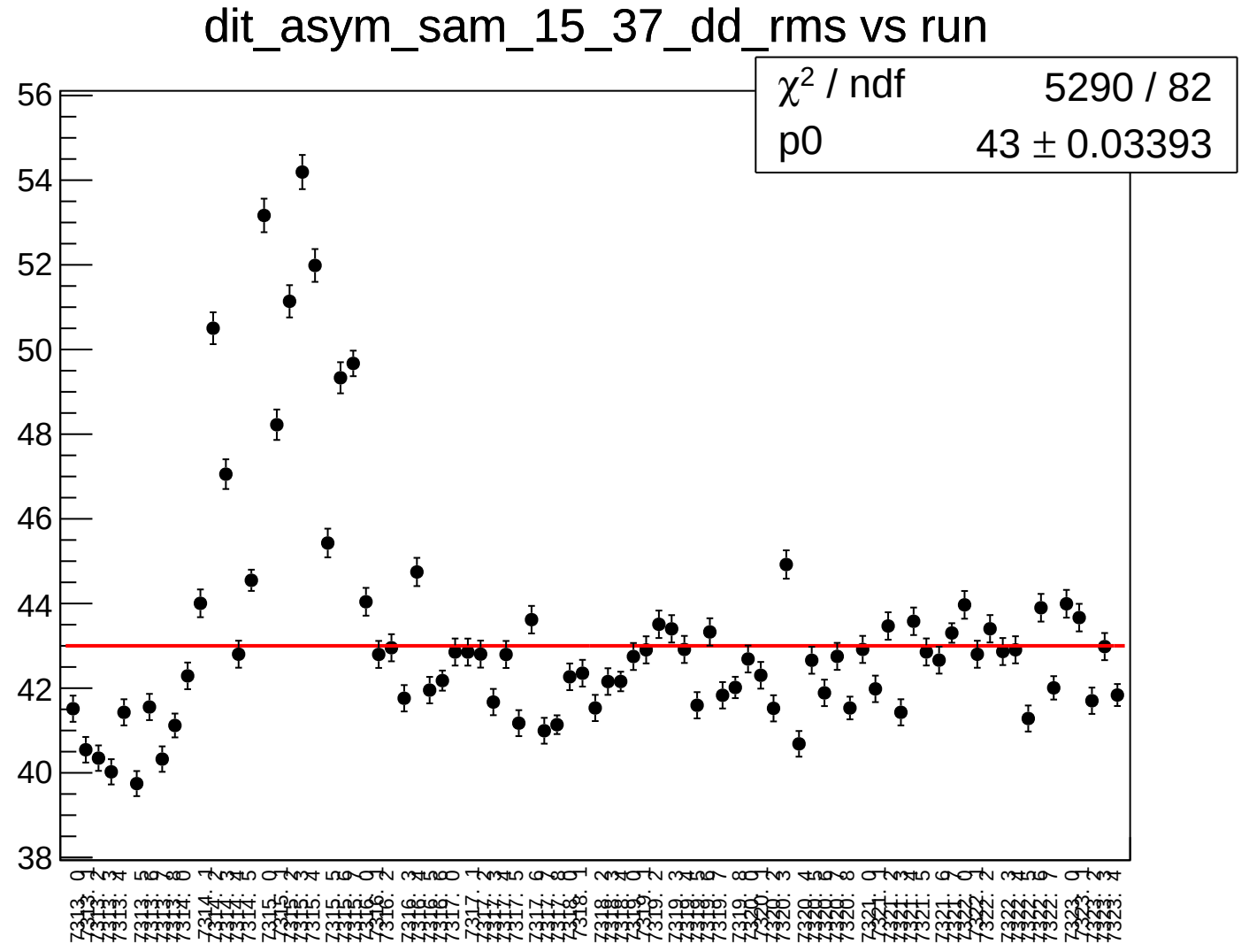

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.78 / 82
p0 203.6 ± 301.3
pull
Entries 83
Mean −469.6
Std Dev 0

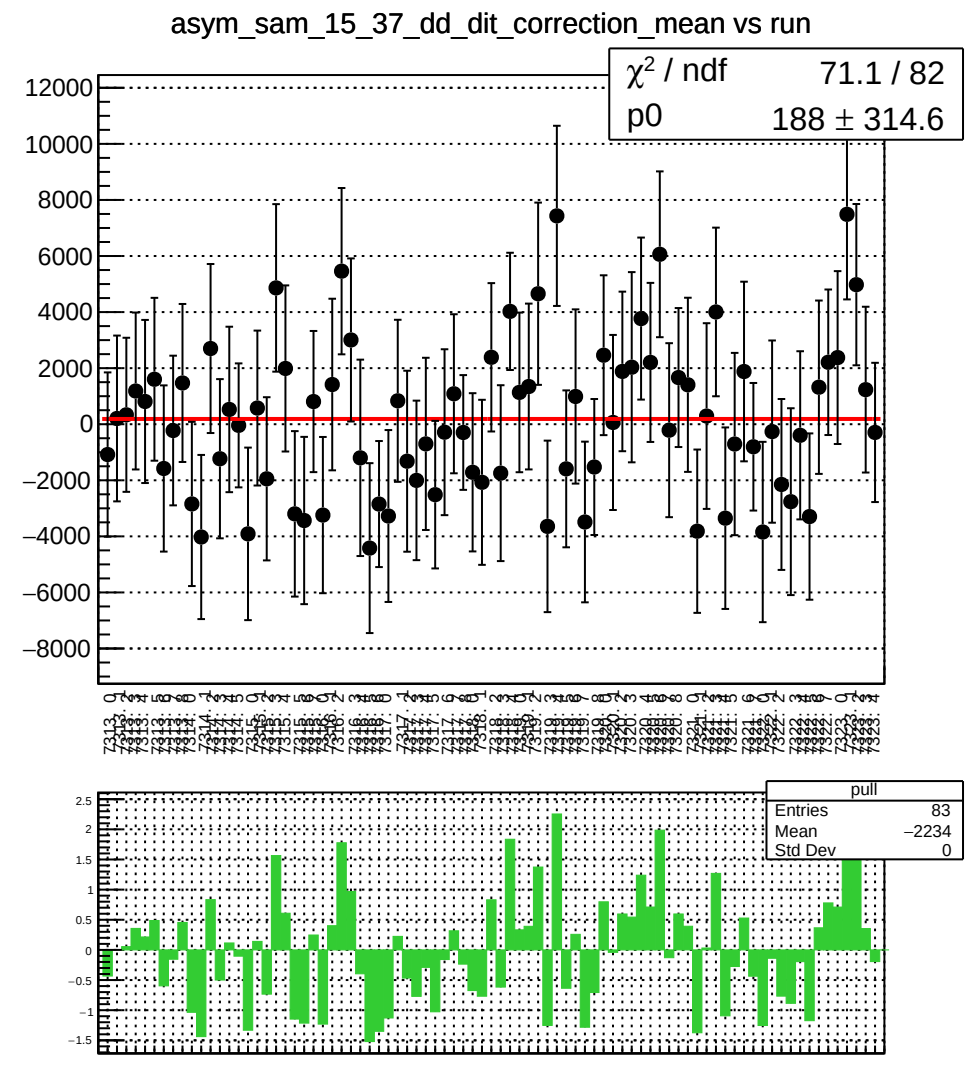

pull1D
Entries 83
Mean −0.007
Std Dev 0.9169

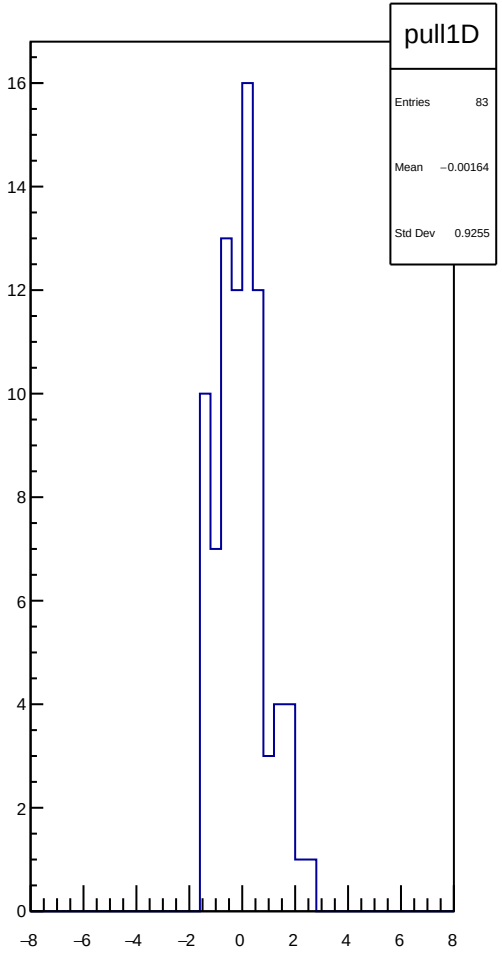

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7937 / 82
p0 269.8 ± 0.2131
320
300
280
260
240

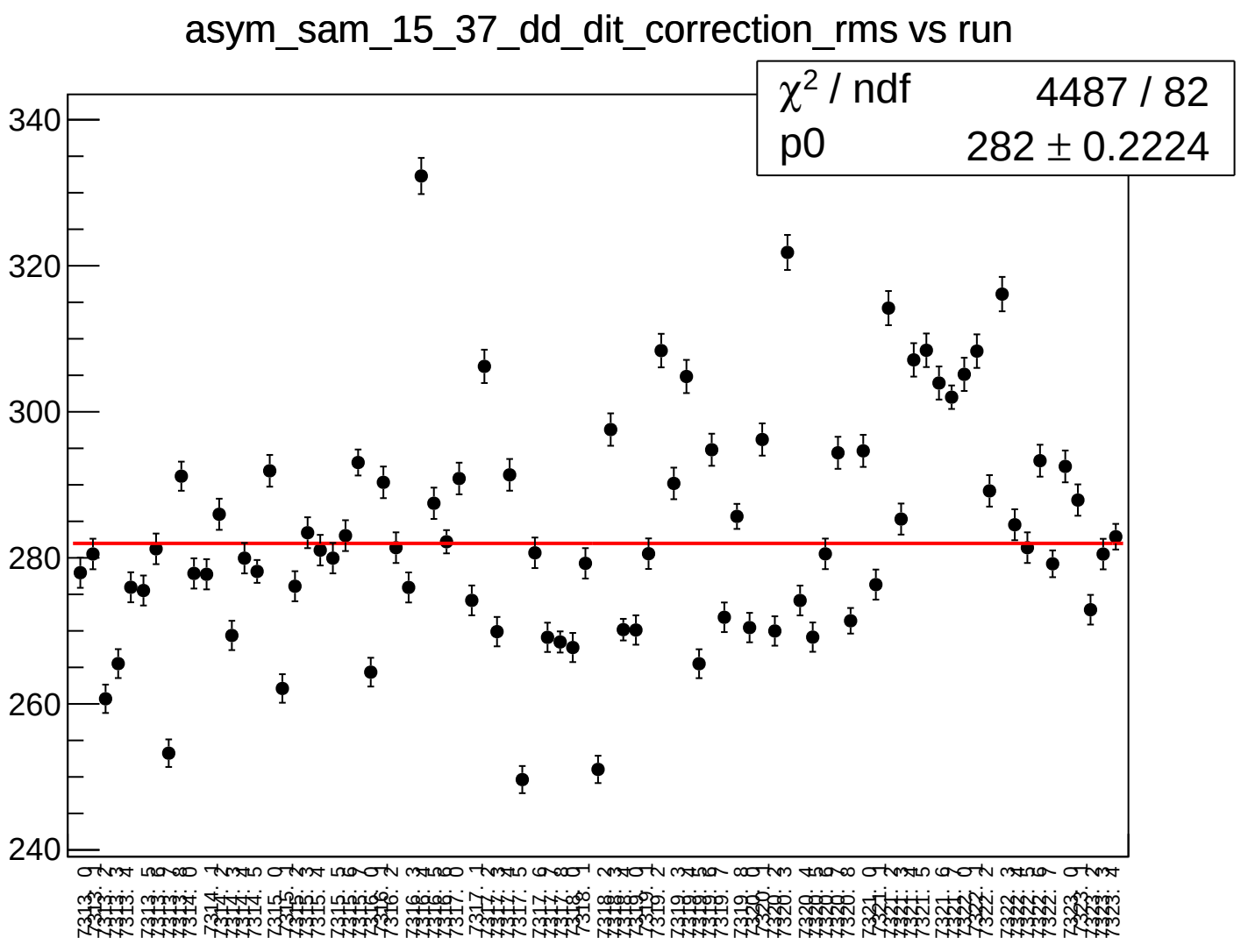

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 98.29 / 82
p0 25.36 ± 47.98
pull
Entries 83
Mean −2.341e+04
Std Dev 0

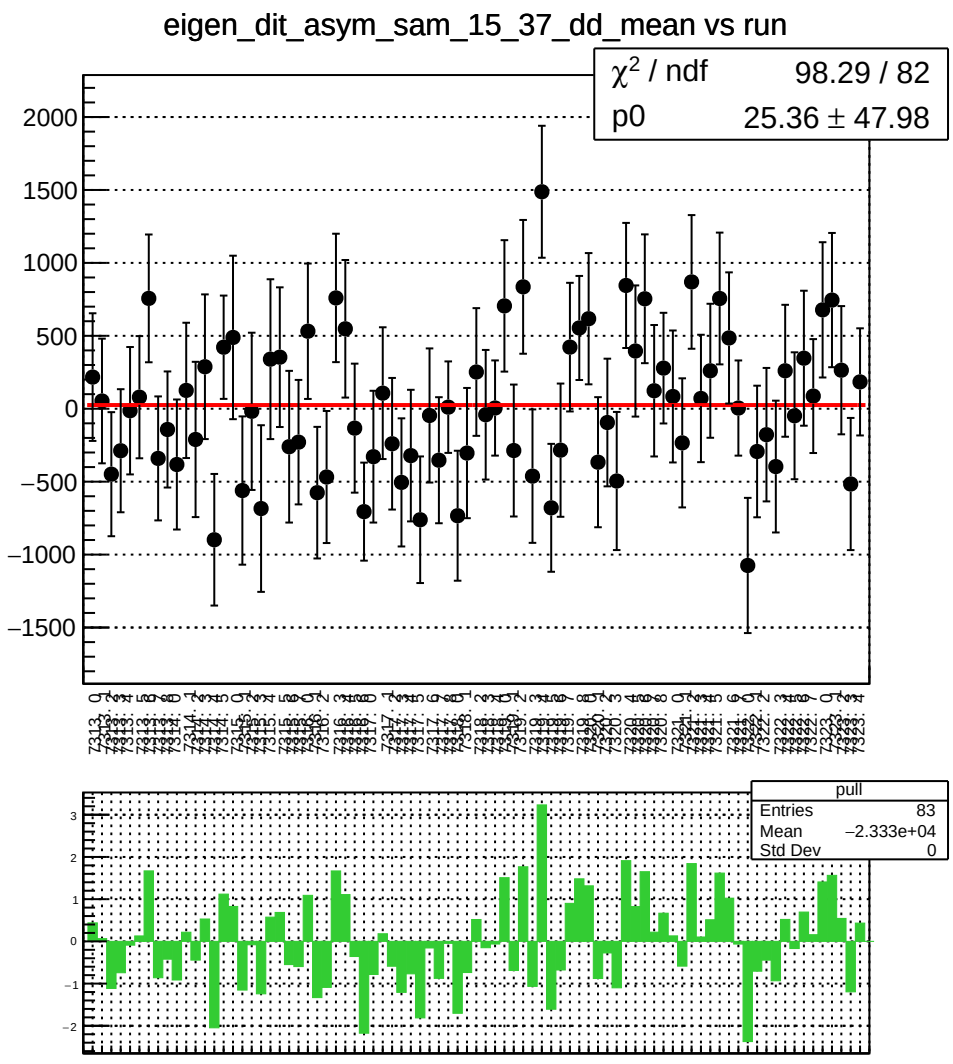

pull1D
Entries 83
Mean −0.0002091
Std Dev 1.088

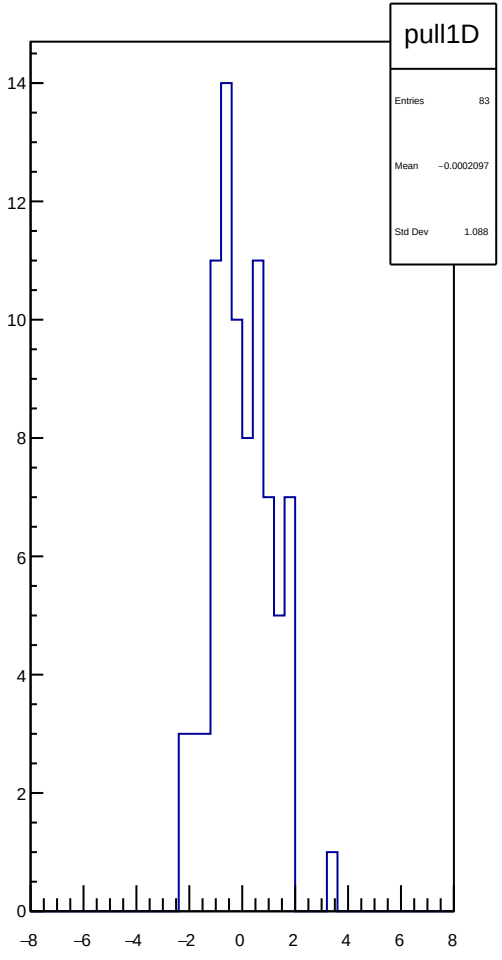

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 5290 / 82
p0 43 ± 0.03393
56
54
52
50
48
46
44
42
40
38

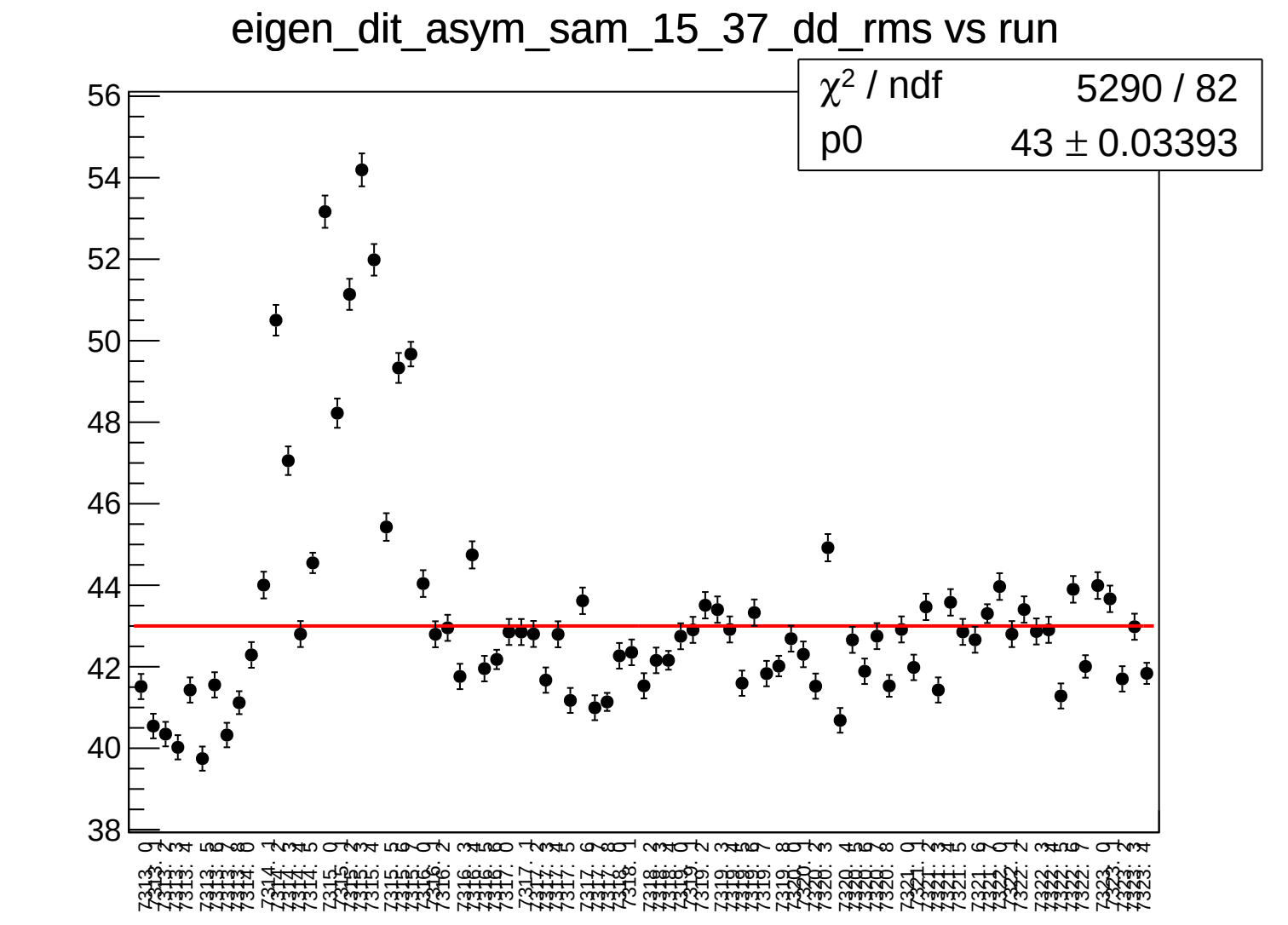

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 71.1 / 82
p0 188 ± 314.6
pull
Entries 83
Mean −2234
Std Dev 0

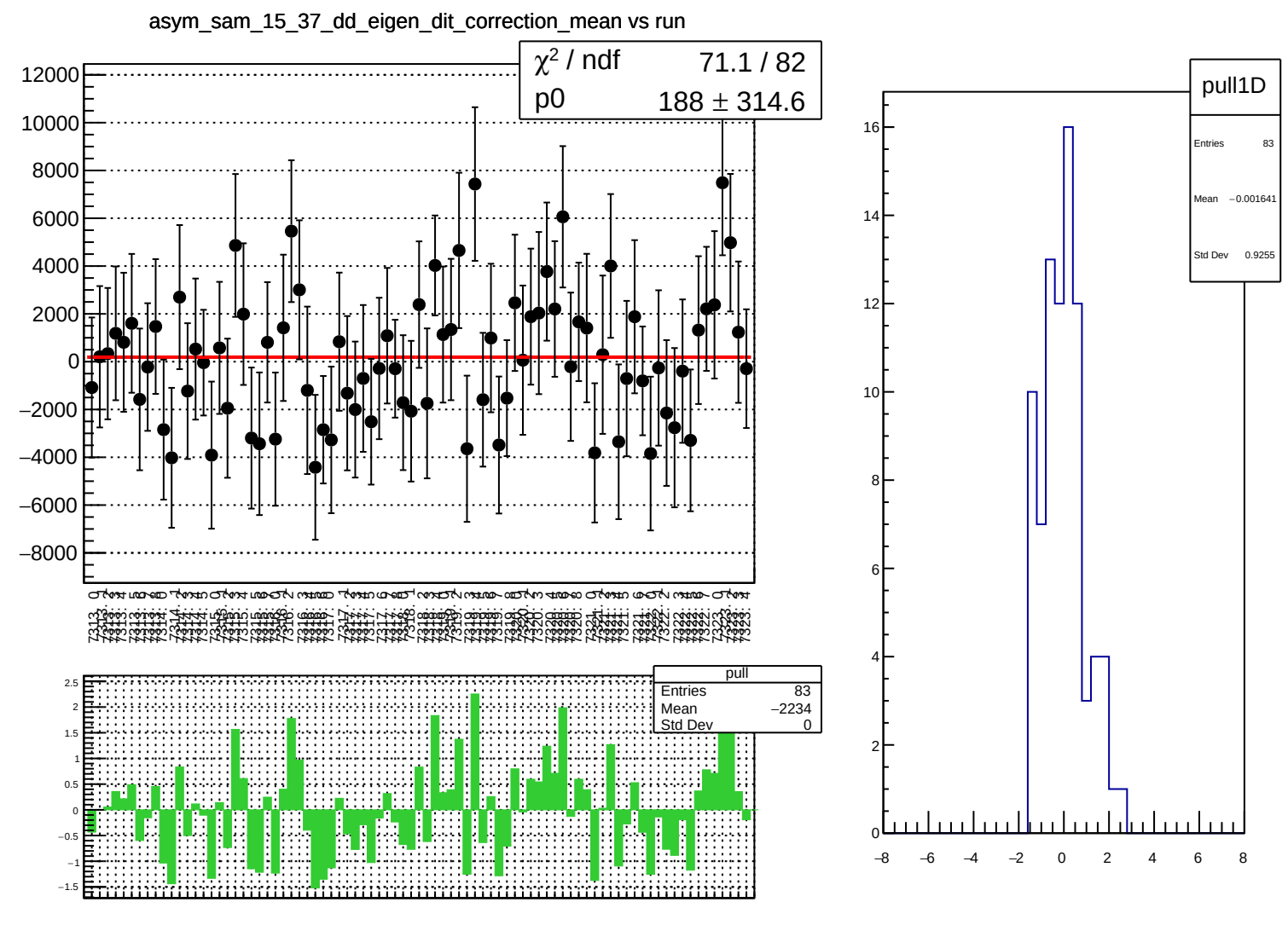

pull1D
Entries 83
Mean −0.00164
Std Dev 0.9255

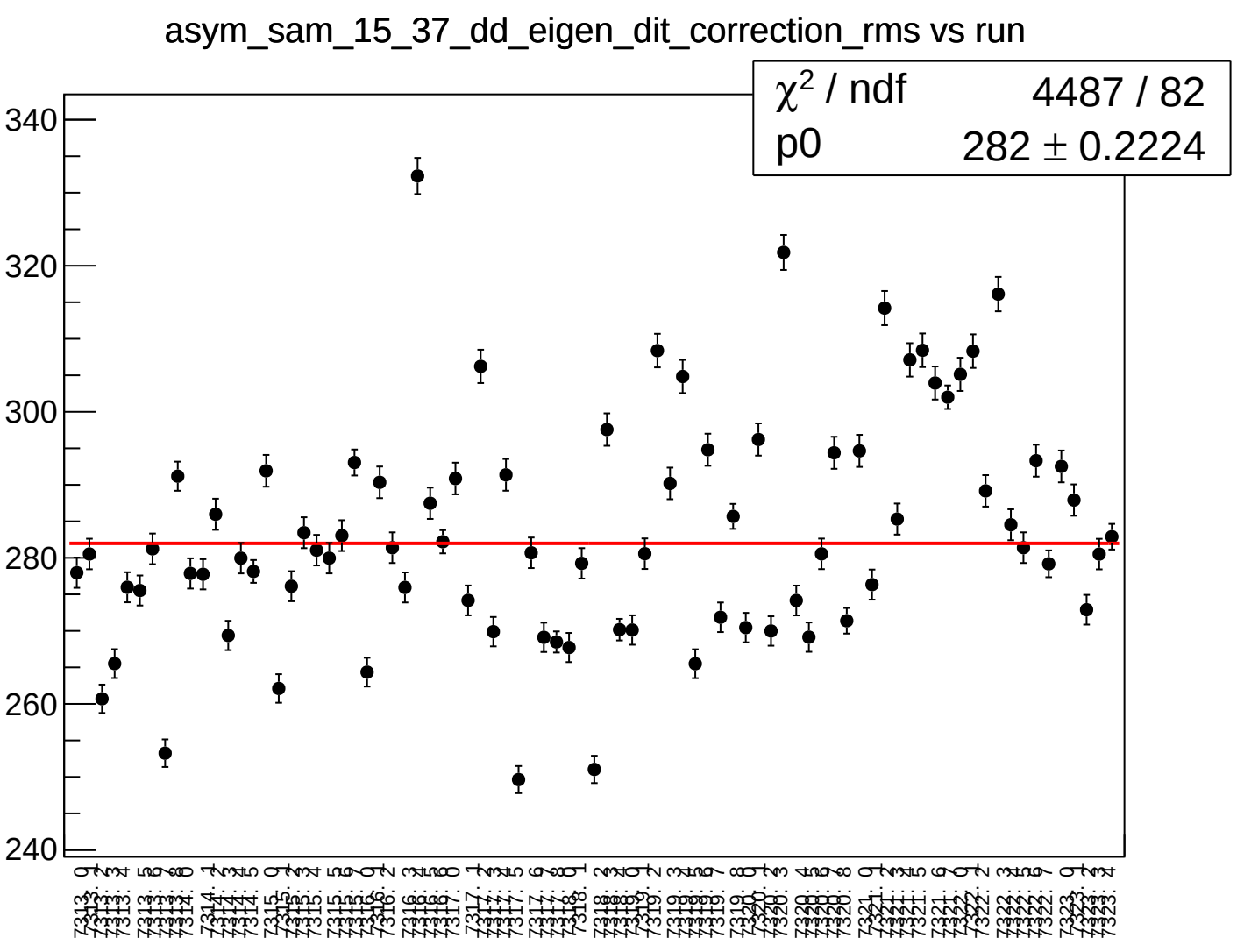

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4487 / 82
p0 282 ± 0.2224
340
320
300
280
260
240

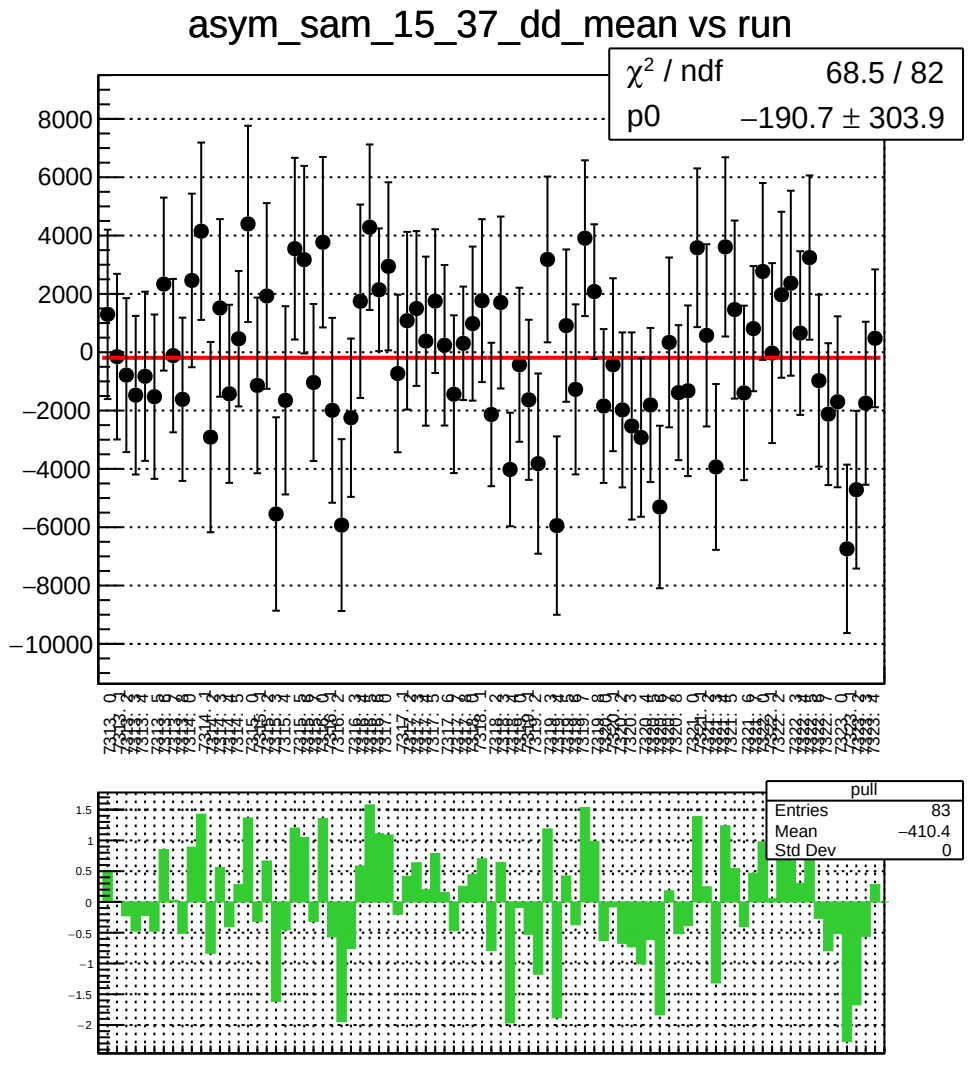

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 98.29 / 82
p0 25.36 ± 47.98
pull
Entries 83
Mean −2.333e+04
Std Dev 0

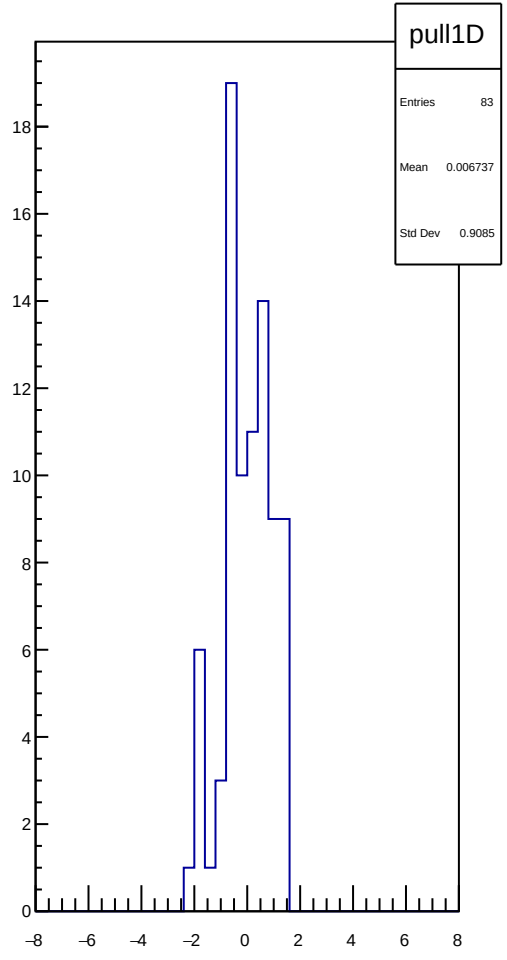

pull1D
Entries 83
Mean −0.0002097
Std Dev 1.088

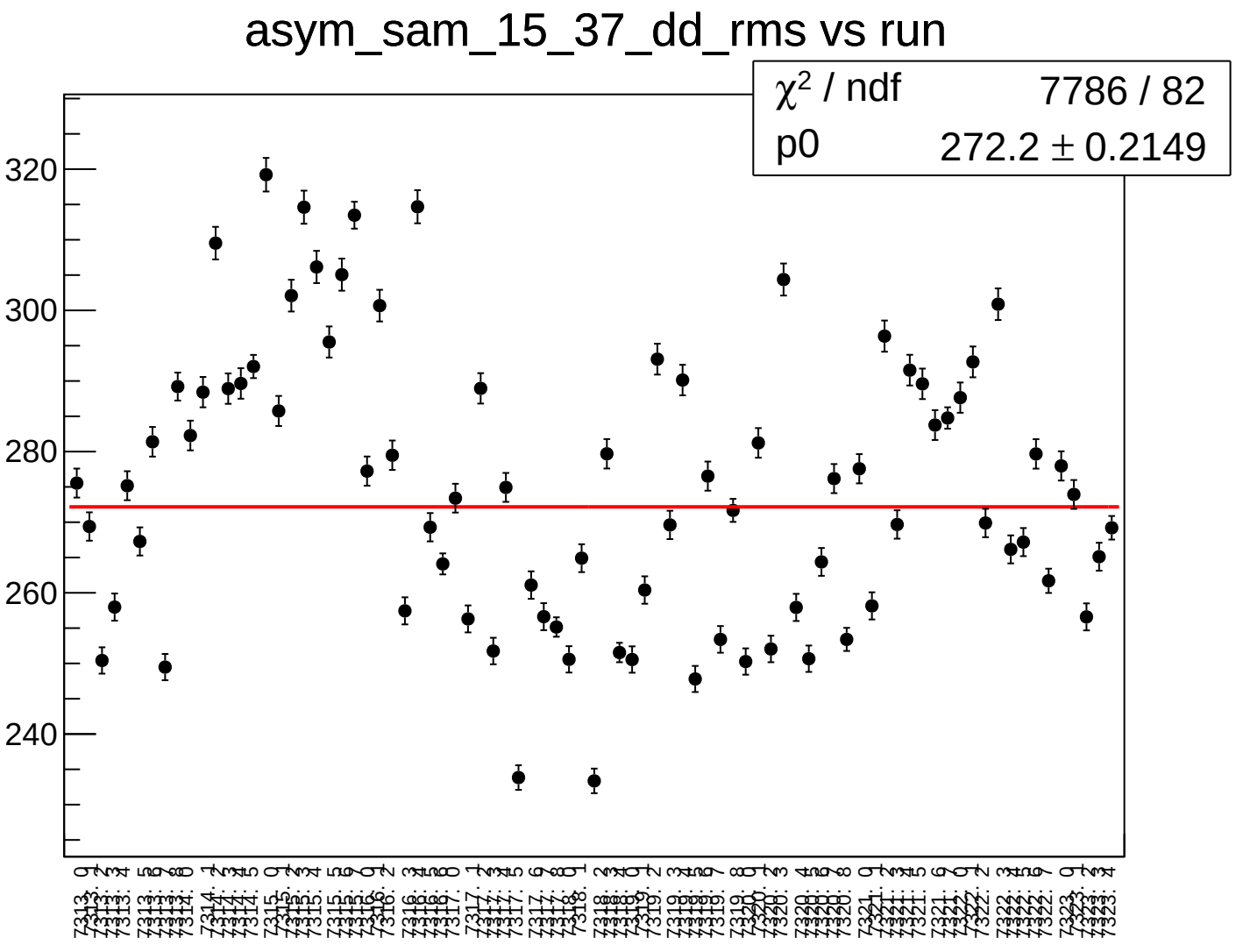

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 5290 / 82
p0 43 ± 0.03393
56
54
52
50
48
46
44
42
40
38

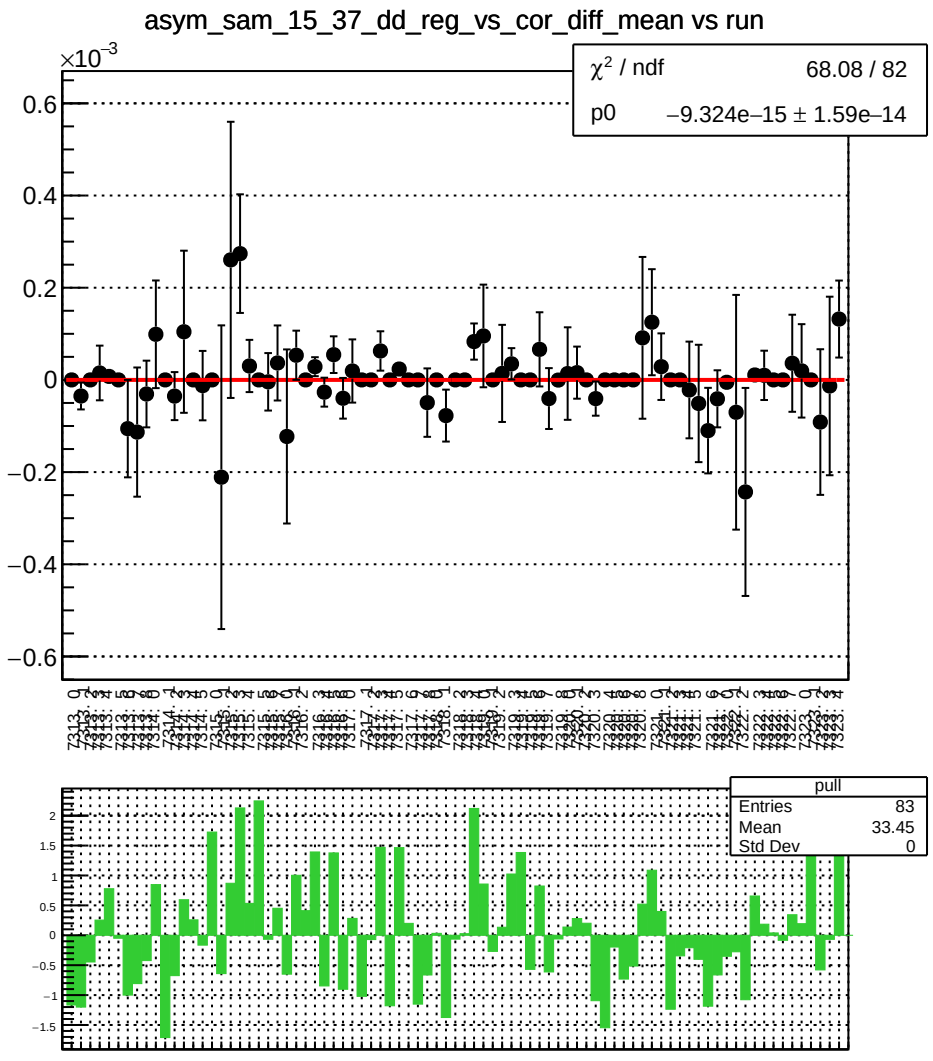

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.1 / 82
p0 188 ± 314.6
pull
Entries 83
Mean −2234
Std Dev 0
pull1D
Entries 83
Mean −0.001641
Std Dev 0.9255

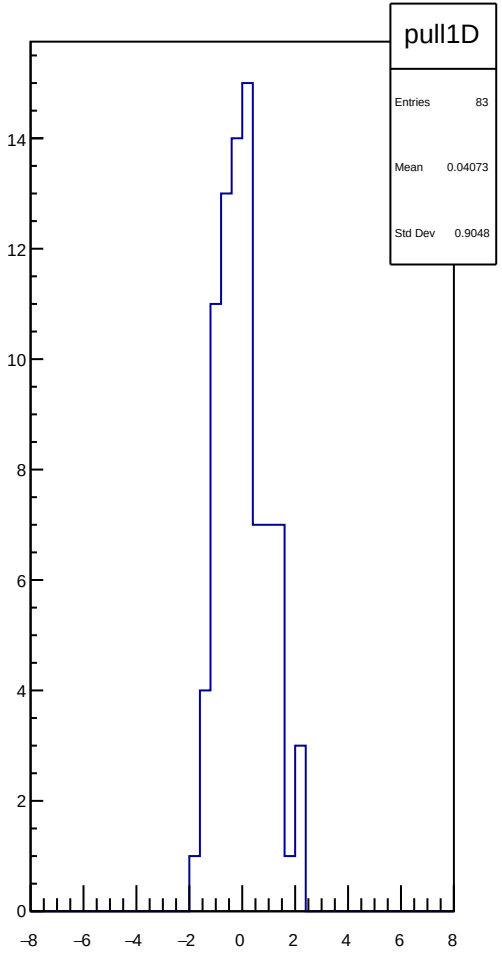

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4487 / 82
p0 282 ± 0.2224
340
320
300
280
260
240

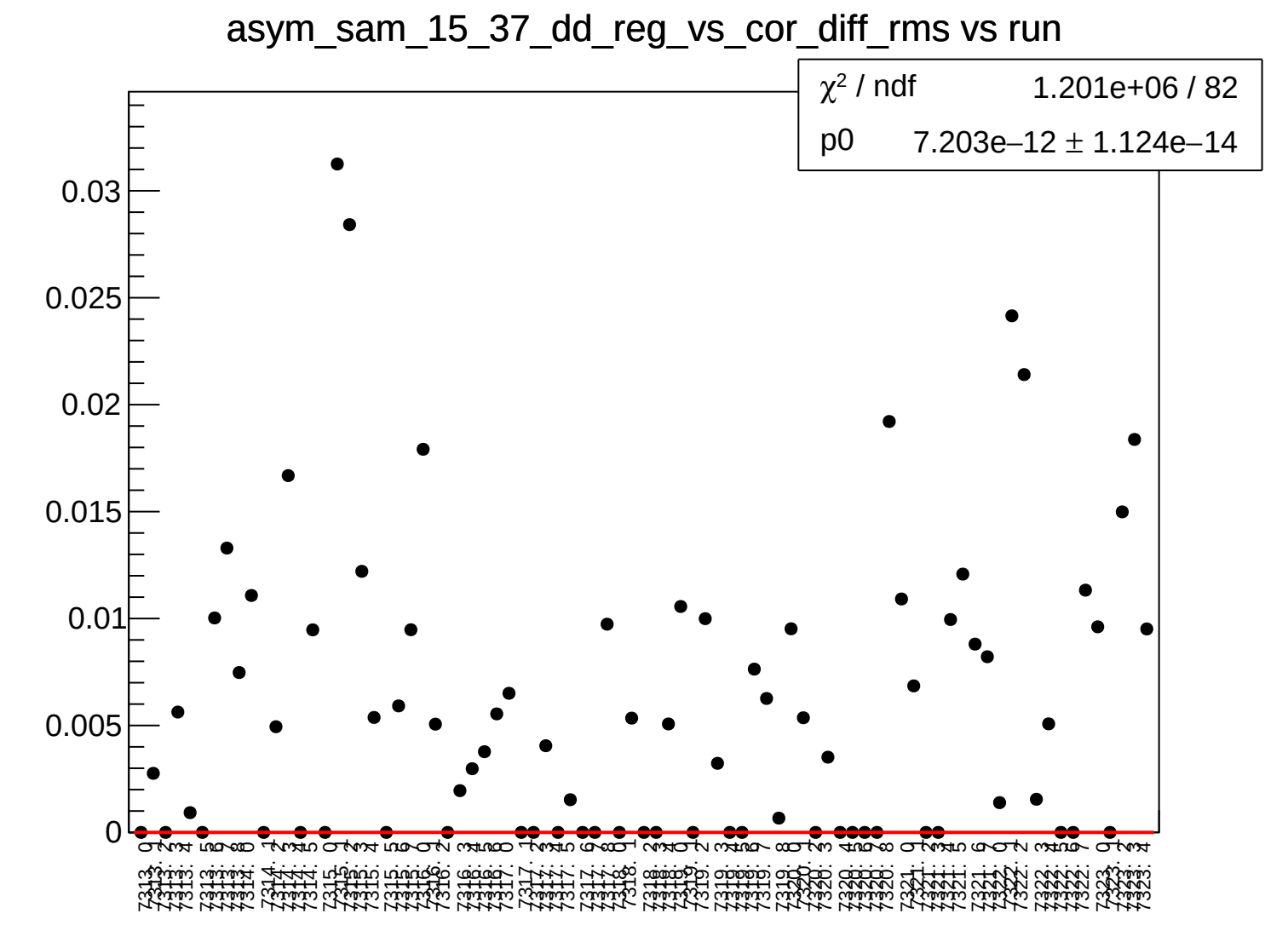

asym_sam_15_37_dd_mean vs run
χ² / ndf 68.5 / 82
p0 −190.7 ± 303.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 83
Mean −410.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

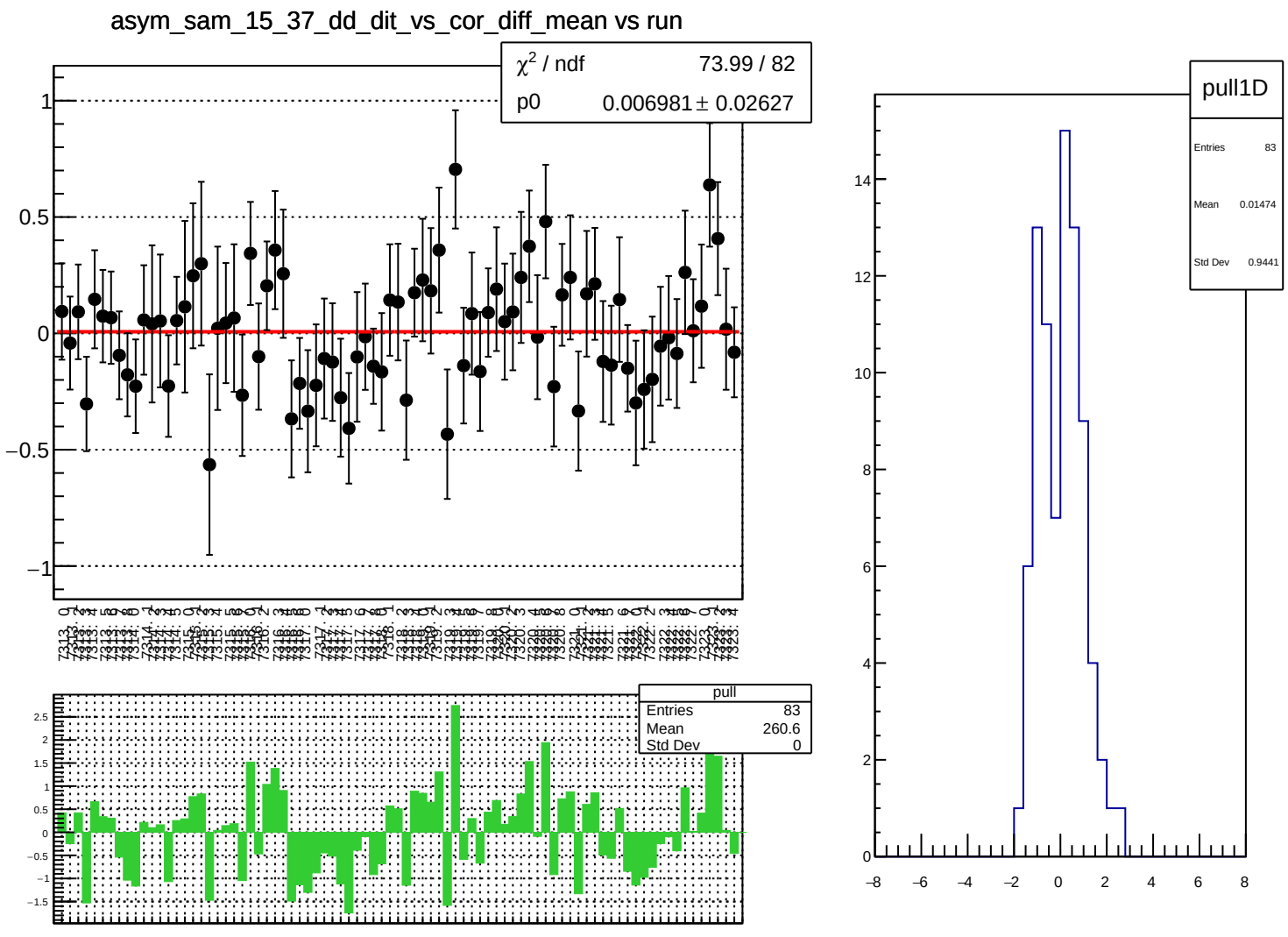

pull1D
Entries 83
Mean 0.006737
Std Dev 0.9085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

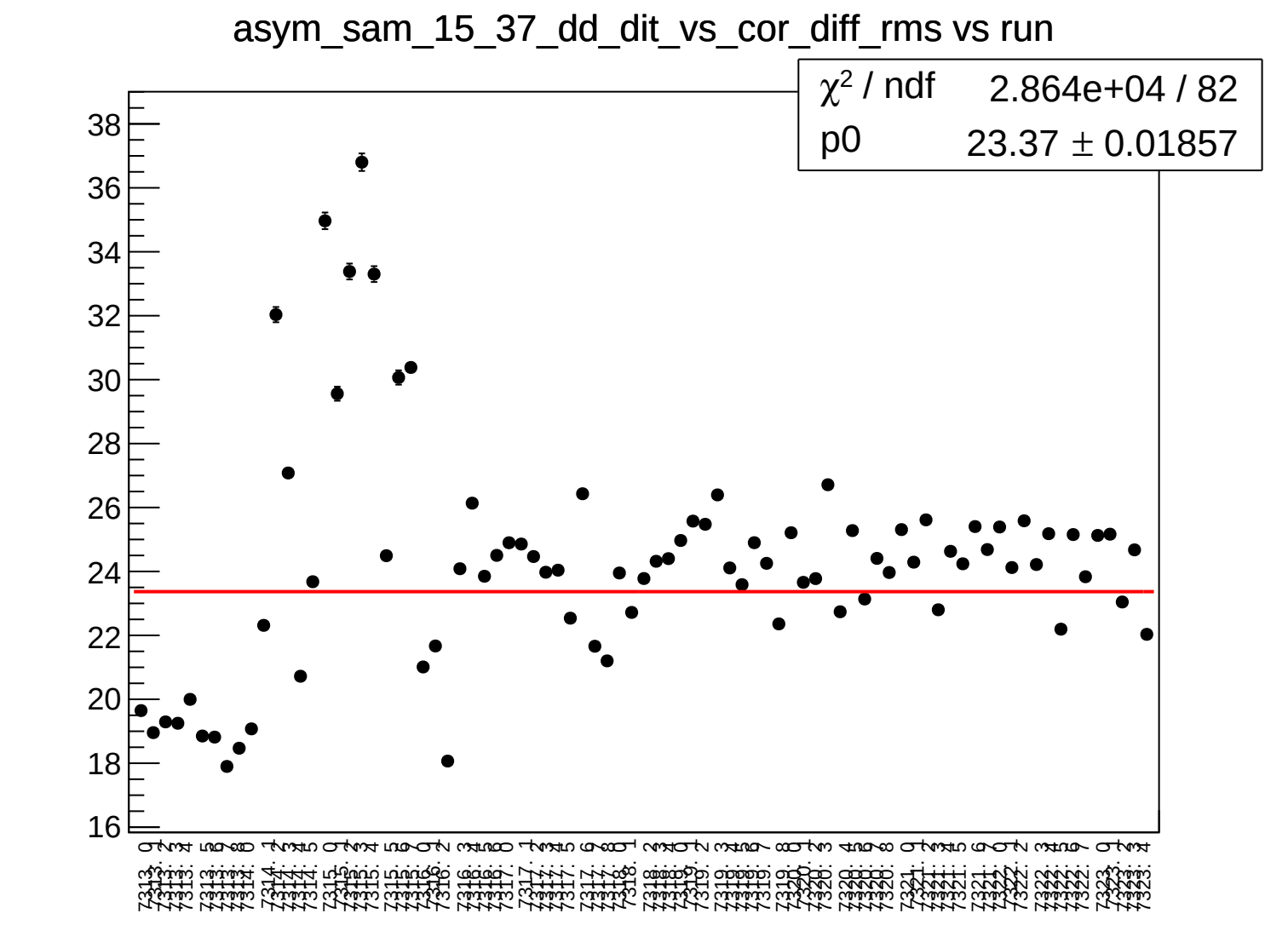

asym_sam_15_37_dd_rms vs run
χ² / ndf 7786 / 82
p0 272.2 ± 0.2149
320
300
280
260
240

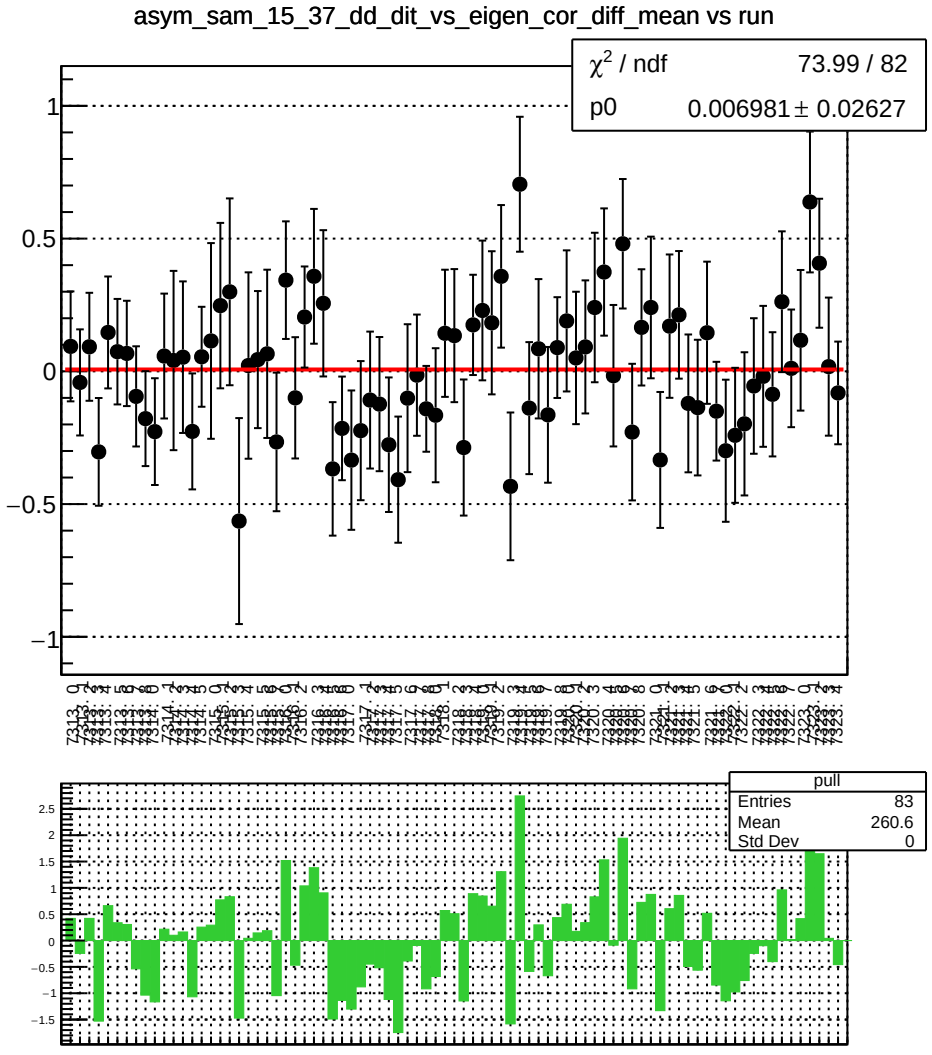

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 68.08 / 82
p0 −9.324e−15 ± 1.59e−14
pull
Entries 83
Mean 33.45
Std Dev 0

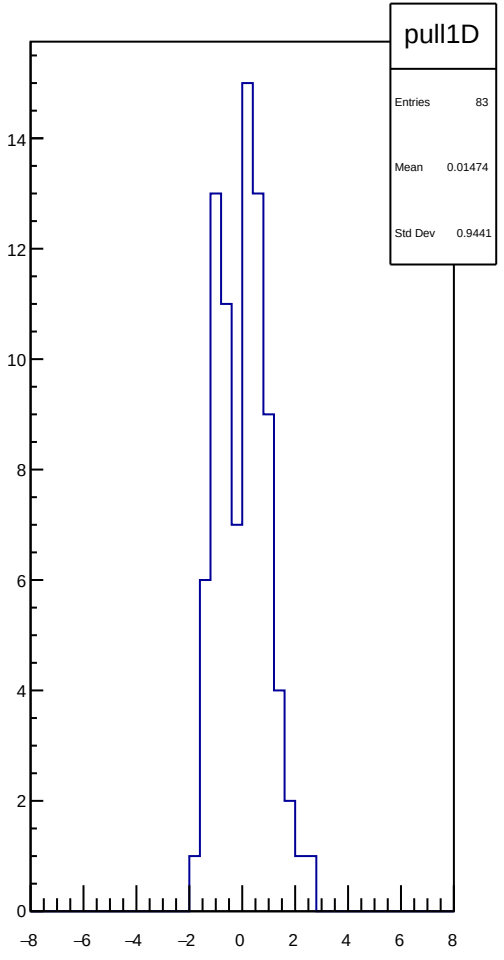

pull1D
Entries 83
Mean 0.04073
Std Dev 0.9048

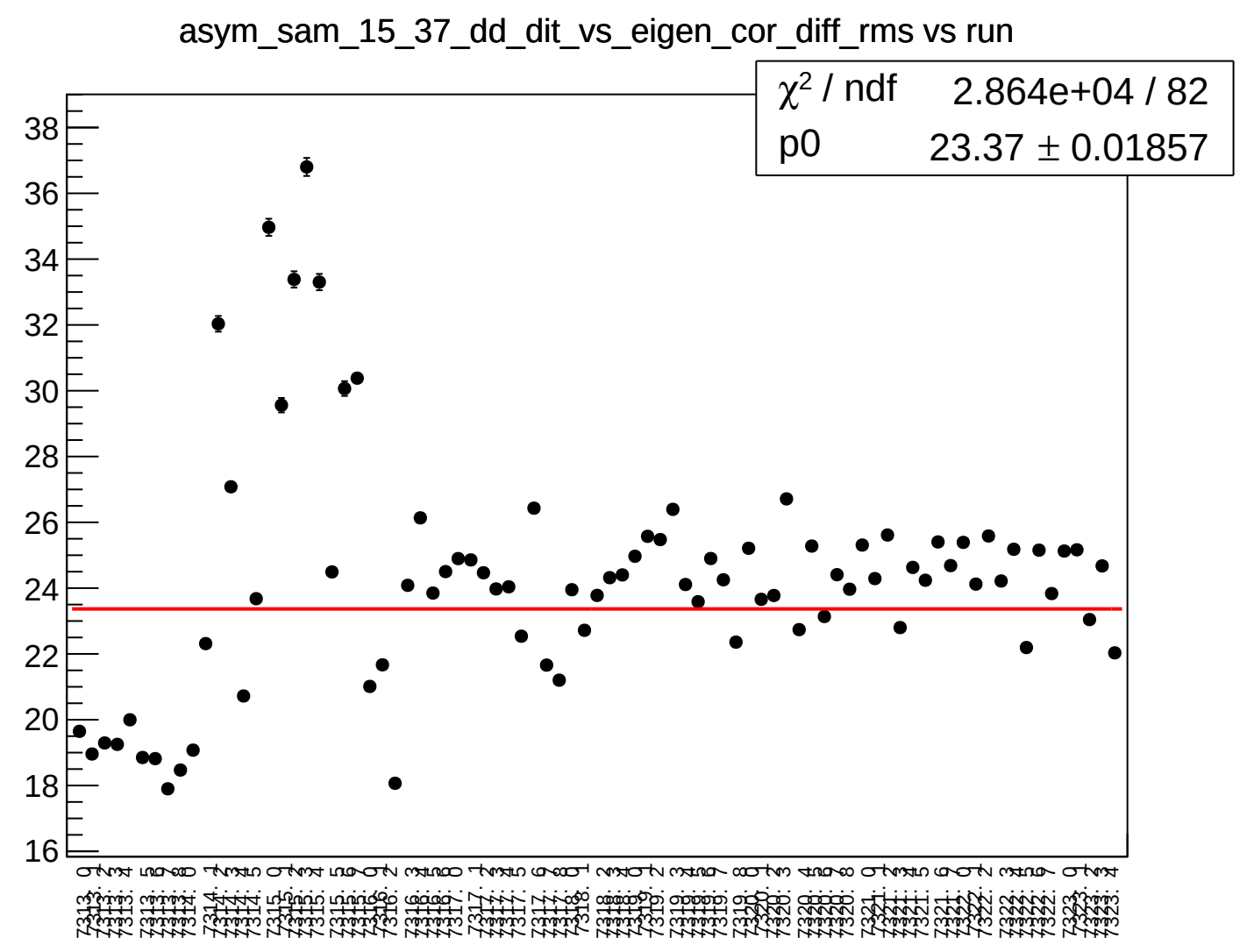

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.201e+06 / 82
p0 7.203e−12 ± 1.124e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

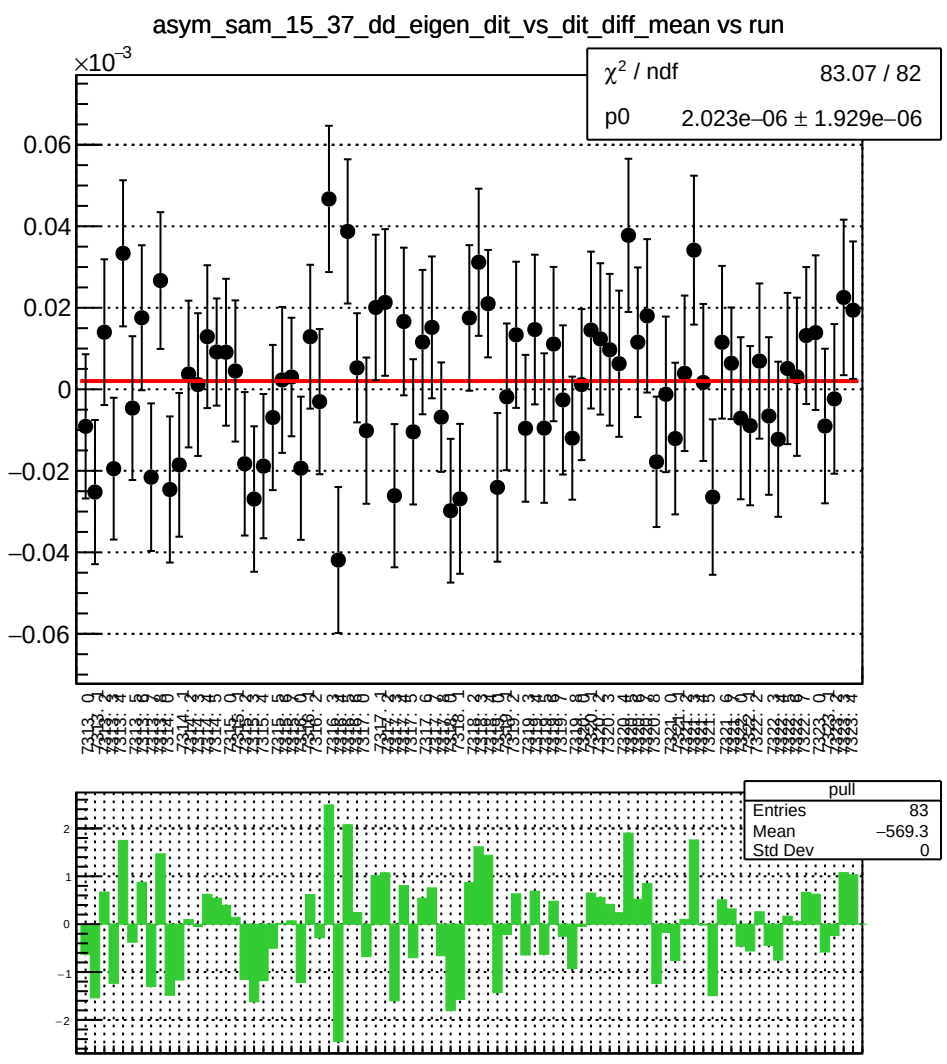

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.99 / 82
p0 0.006981 ± 0.02627
pull
Entries 83
Mean 260.6
Std Dev 0
pull1D
Entries 83
Mean 0.01474
Std Dev 0.9441

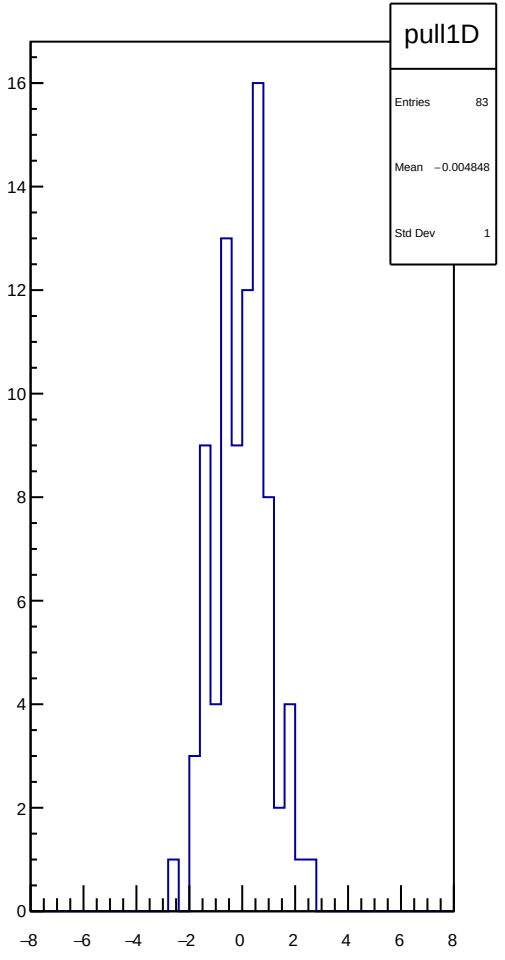

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.864e+04 / 82
p0 23.37 ± 0.01857
38
36
34
32
30
28
26
24
22
20
18
16

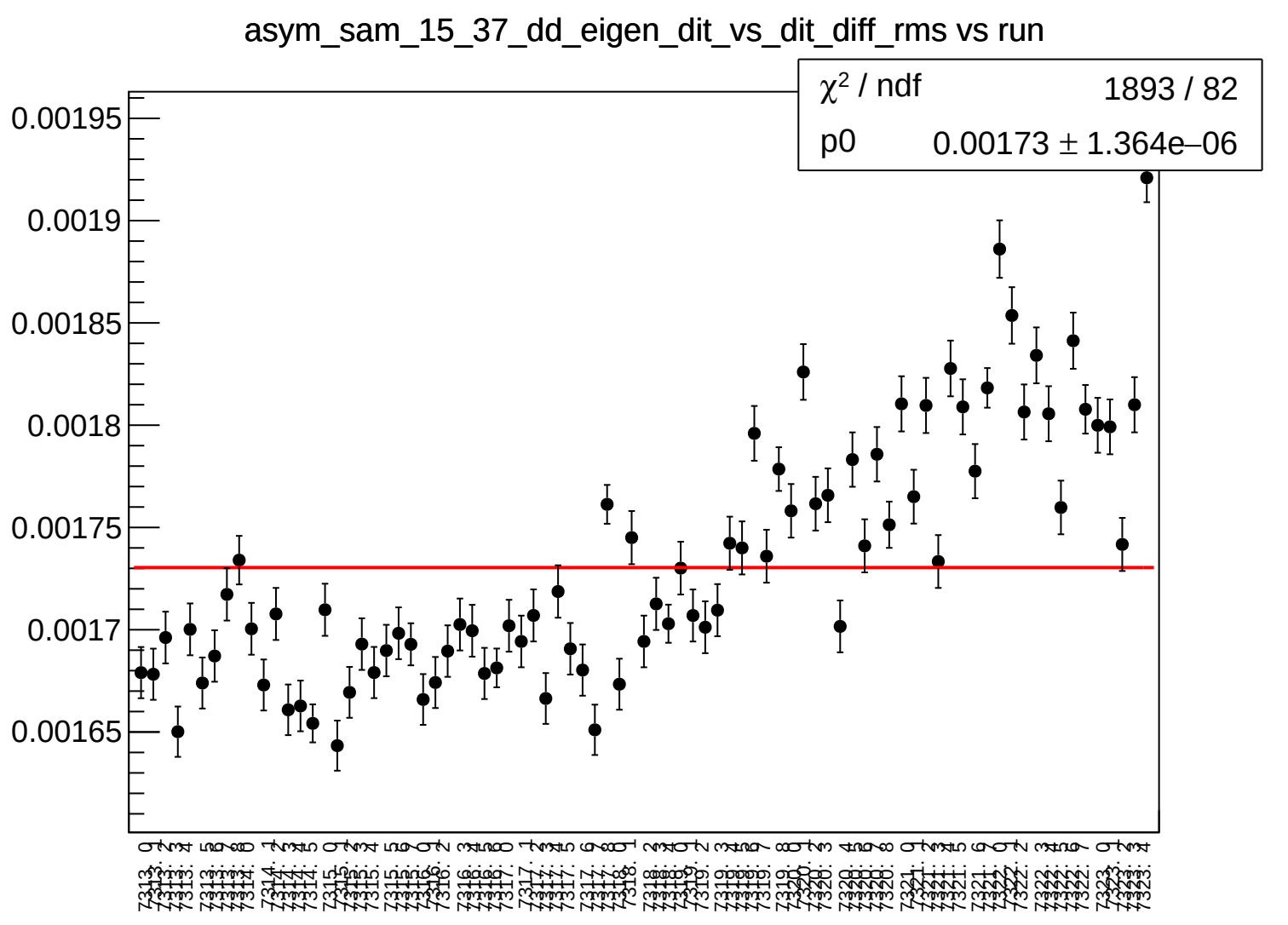

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.99 / 82
p0 0.006981 ± 0.02627
pull
Entries 83
Mean 260.6
Std Dev 0

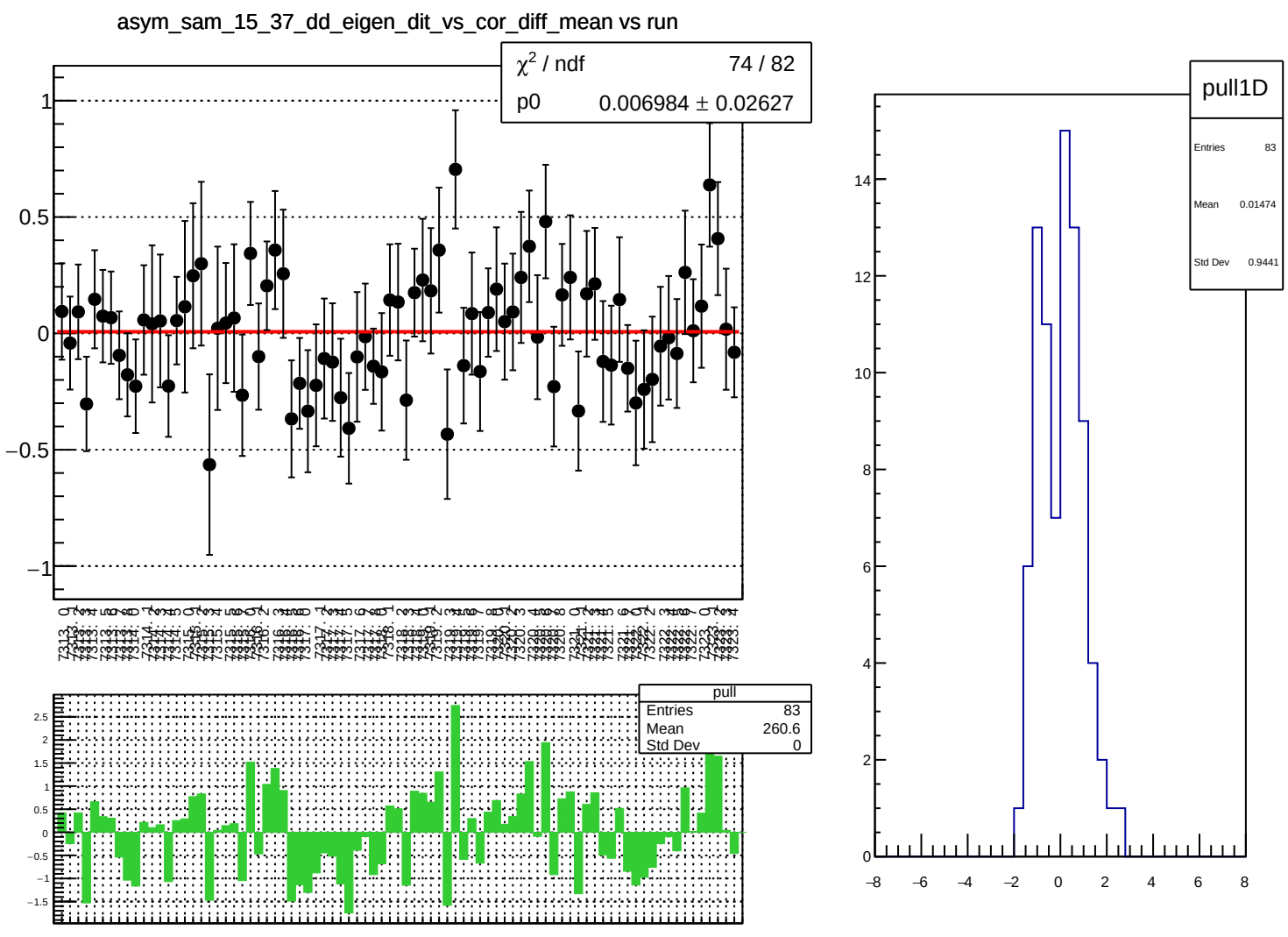

pull1D
Entries 83
Mean 0.01474
Std Dev 0.9441

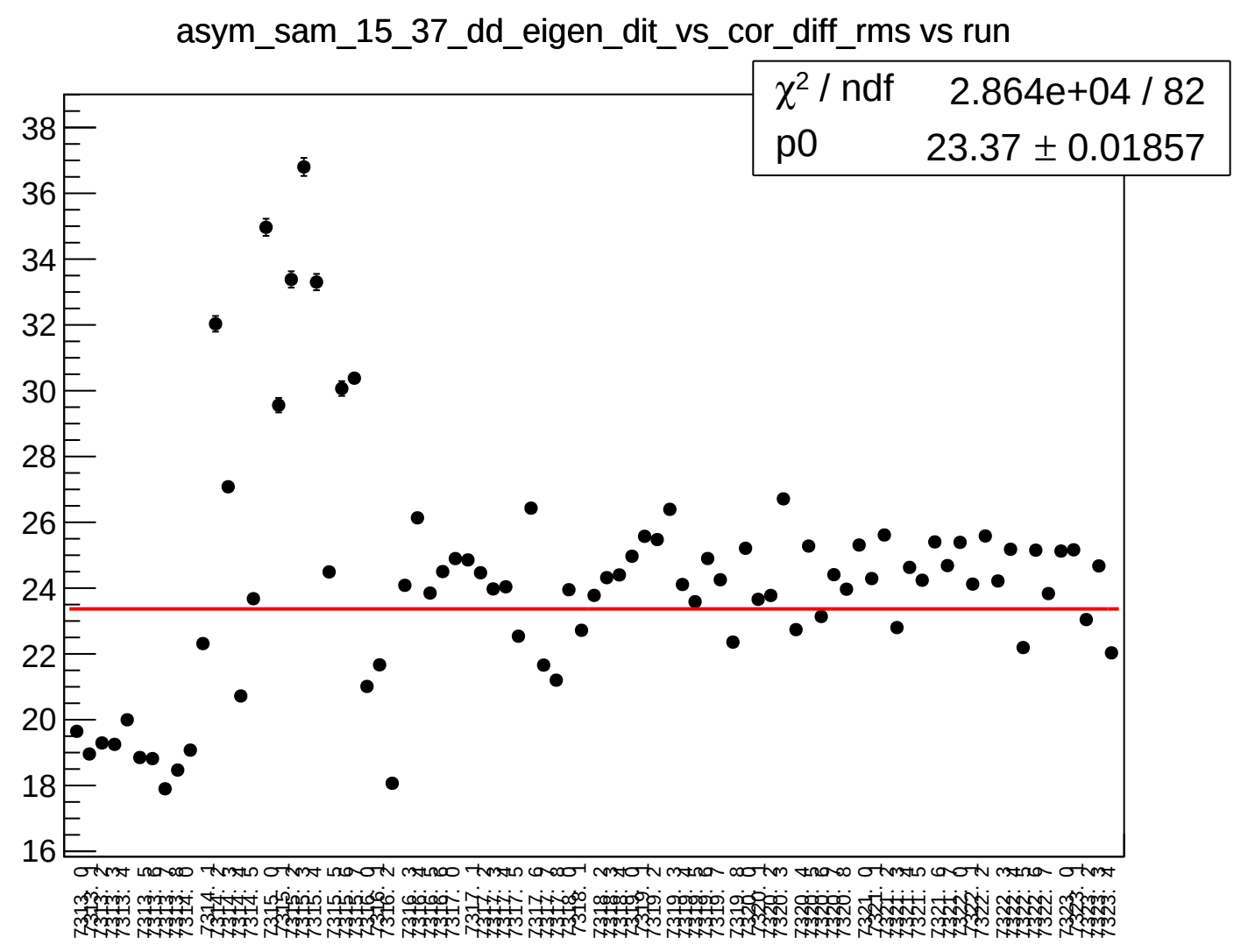

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.864e+04 / 82
p0 23.37 ± 0.01857
38
36
34
32
30
28
26
24
22
20
18
16

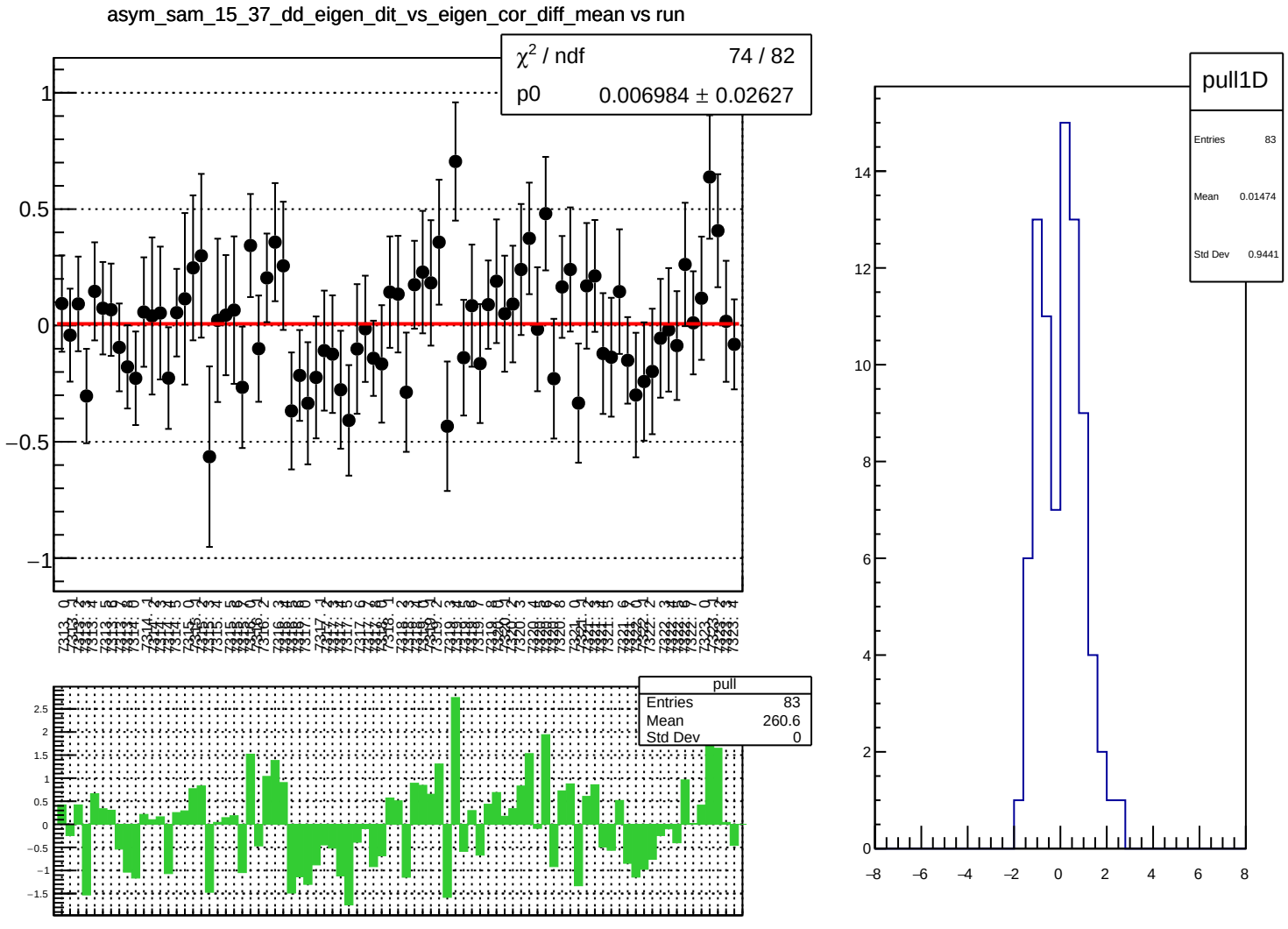

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.07 / 82
p0 2.023e−06 ± 1.929e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean −569.3
Std Dev 0
2
1
0
−1
−2

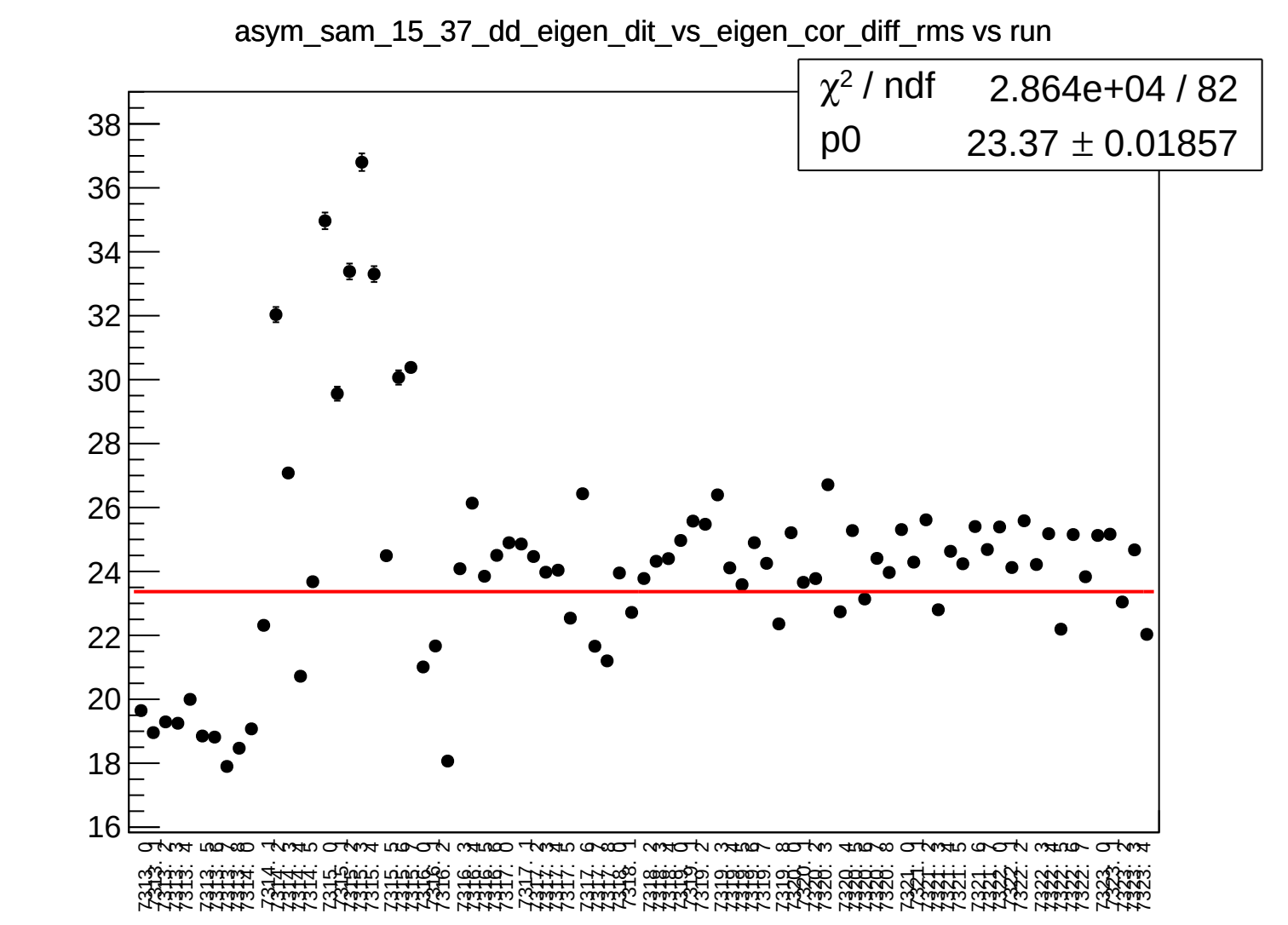

pull1D
Entries 83
Mean −0.004848
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

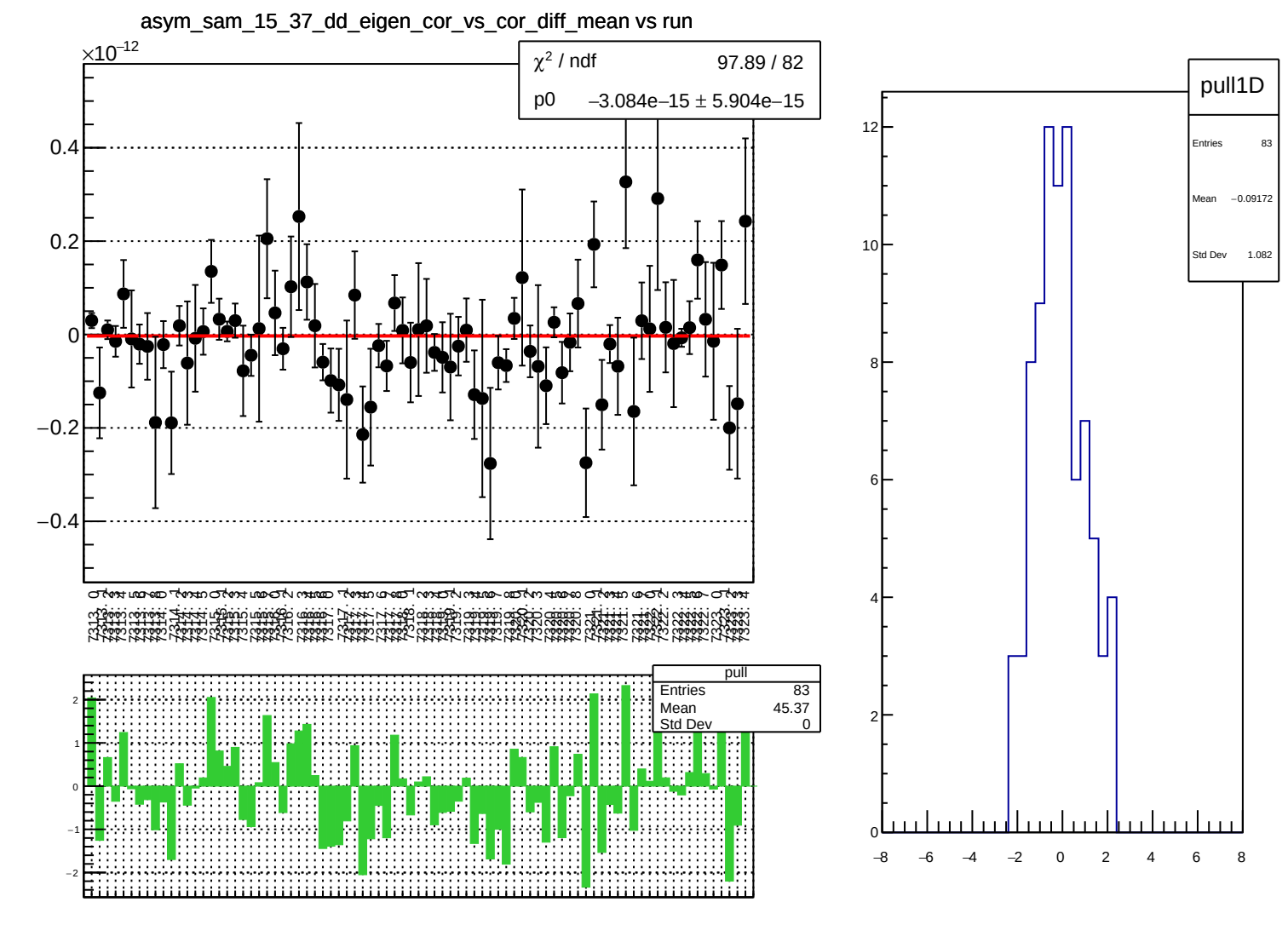

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1893 / 82
p0 0.00173 ± 1.364e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

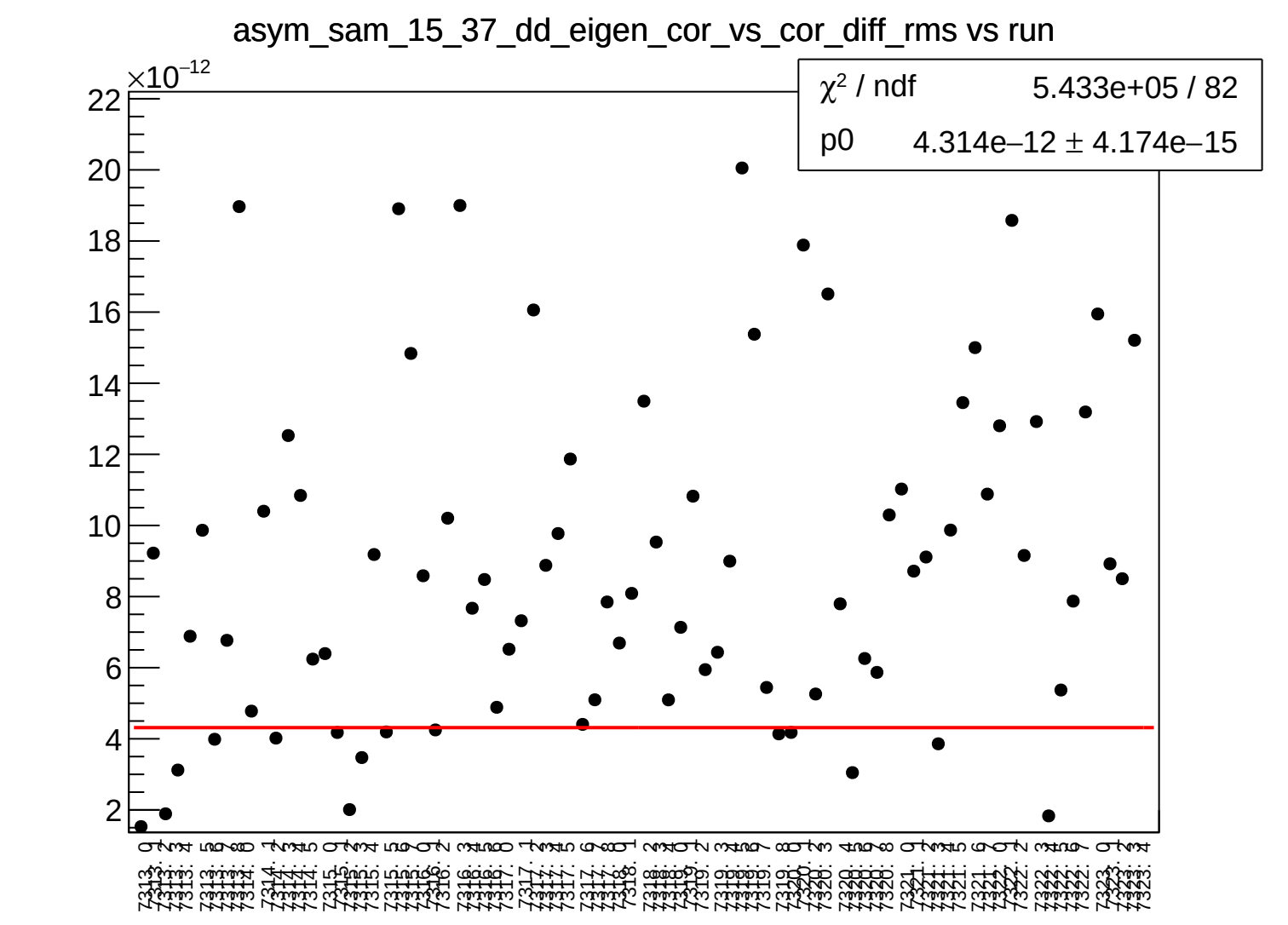

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74 / 82
p0 0.006984 ± 0.02627
pull
Entries 83
Mean 260.6
Std Dev 0
pull1D
Entries 83
Mean 0.01474
Std Dev 0.9441

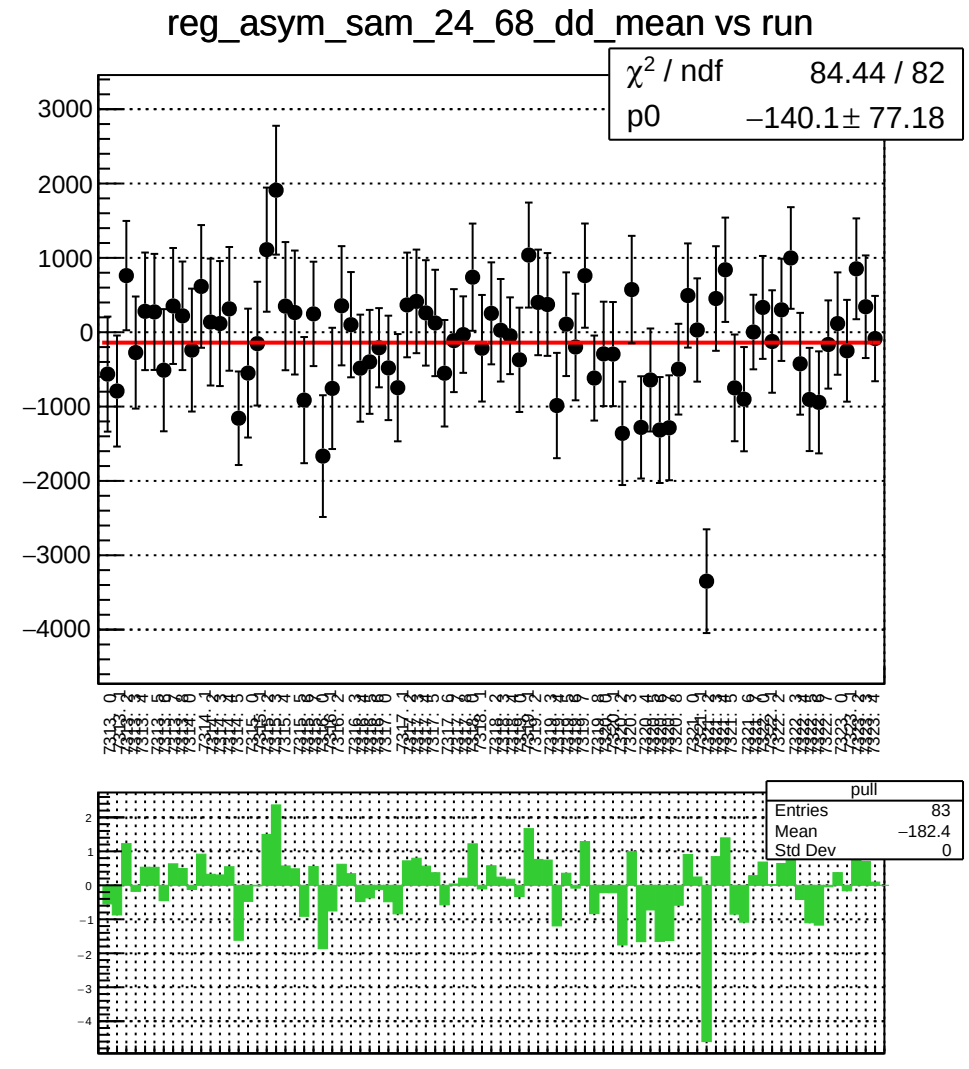

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.864e+04 / 82
p0 23.37 ± 0.01857
38
36
34
32
30
28
26
24
22
20
18
16

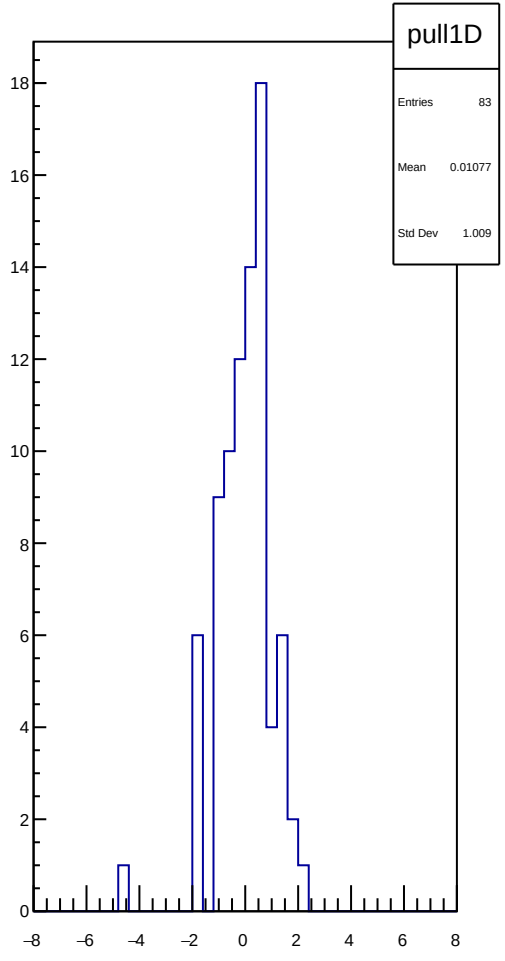

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74 / 82
p0 0.006984 ± 0.02627
pull
Entries 83
Mean 260.6
Std Dev 0
pull1D
Entries 83
Mean 0.01474
Std Dev 0.9441

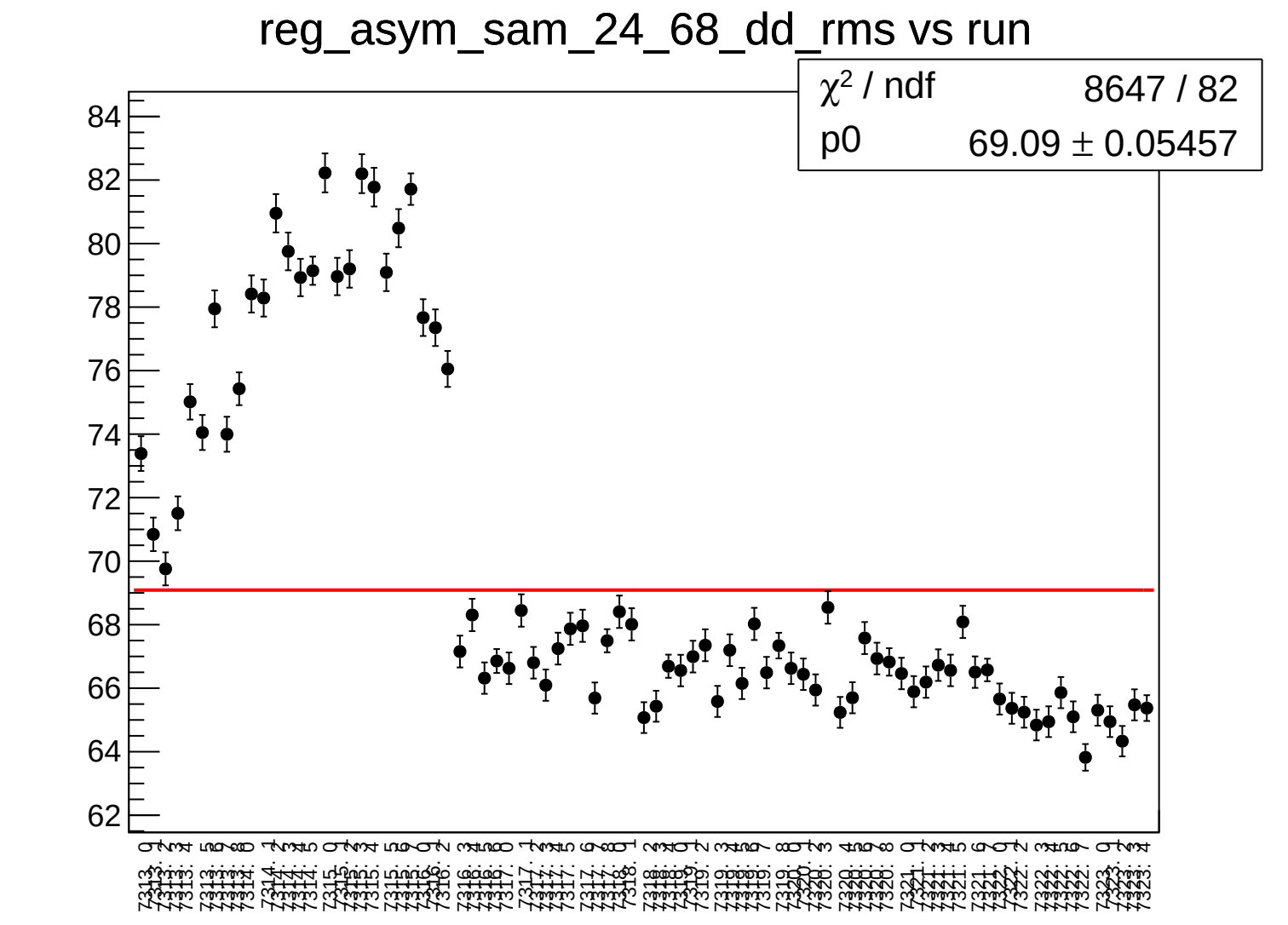

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.864e+04 / 82
p0 23.37 ± 0.01857
38
36
34
32
30
28
26
24
22
20
18
16

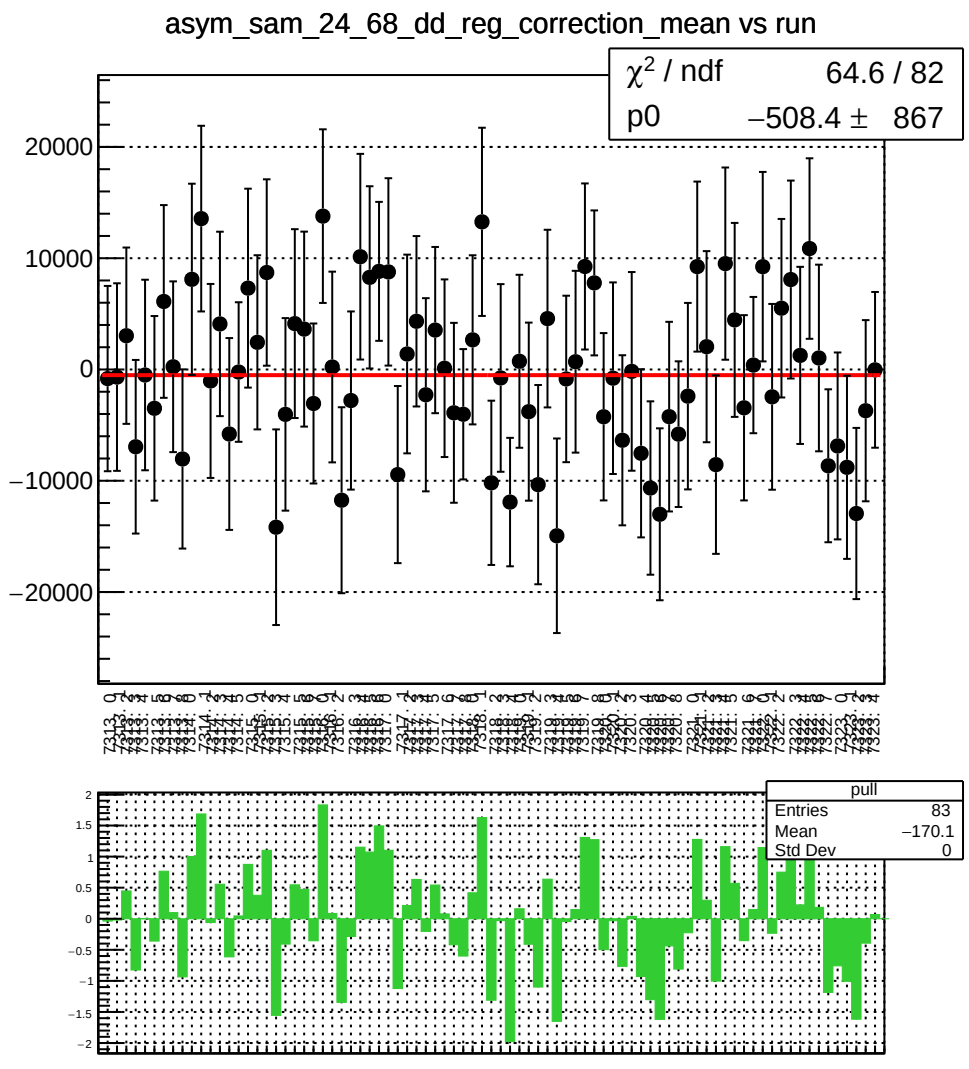

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.89 / 82
p0 −3.084e−15 ± 5.904e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 83
Mean 45.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.09172
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

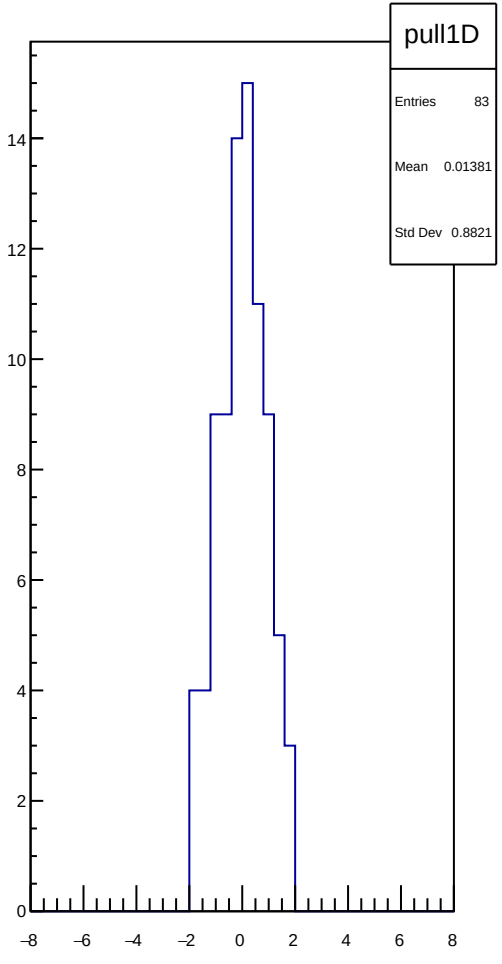

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.433e+05 / 82
p0 4.314e−12 ± 4.174e−15
22
20
18
16
14
12
10
8
6
4
2

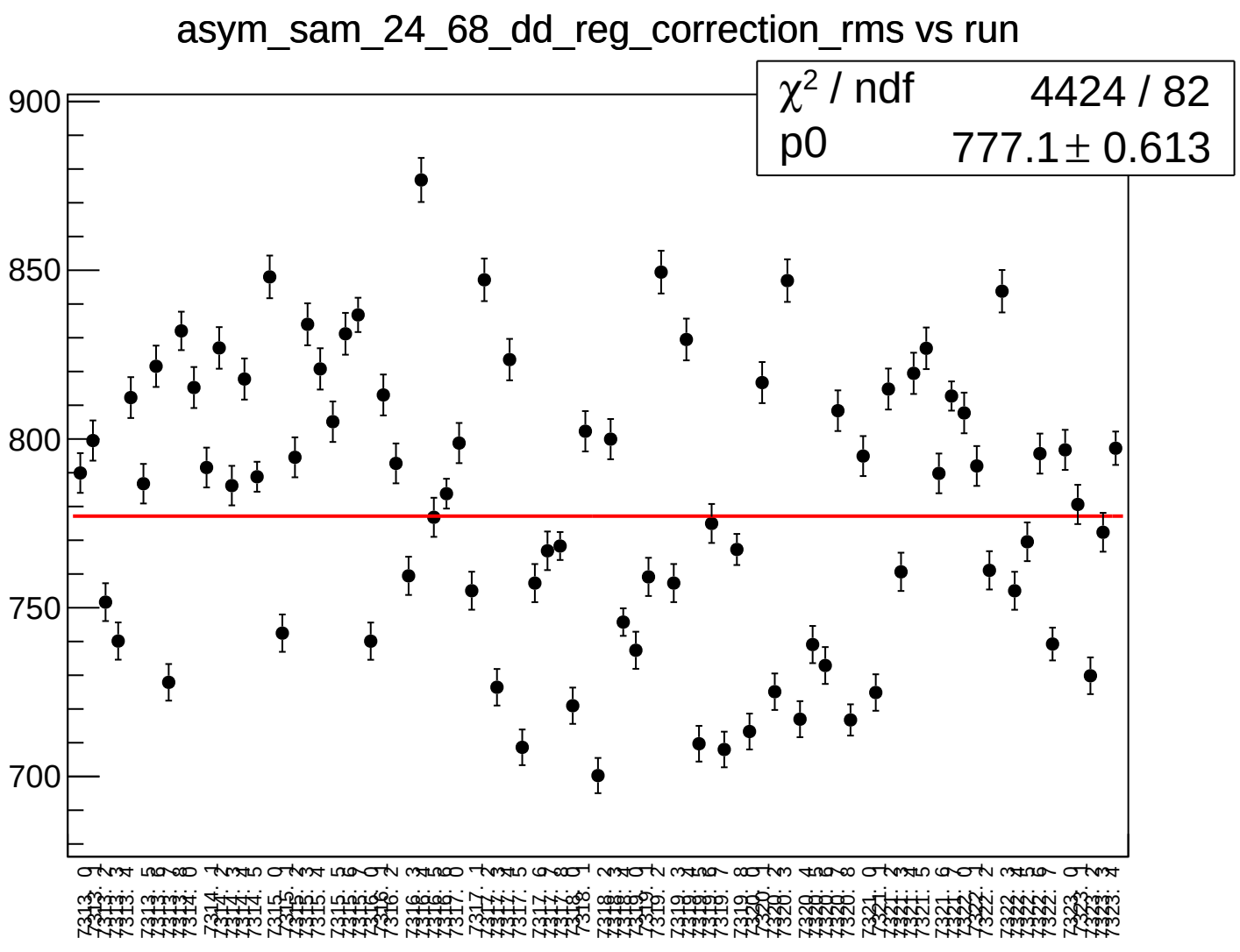

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.44 / 82
p0 −140.1± 77.18
pull
Entries 83
Mean −182.4
Std Dev 0

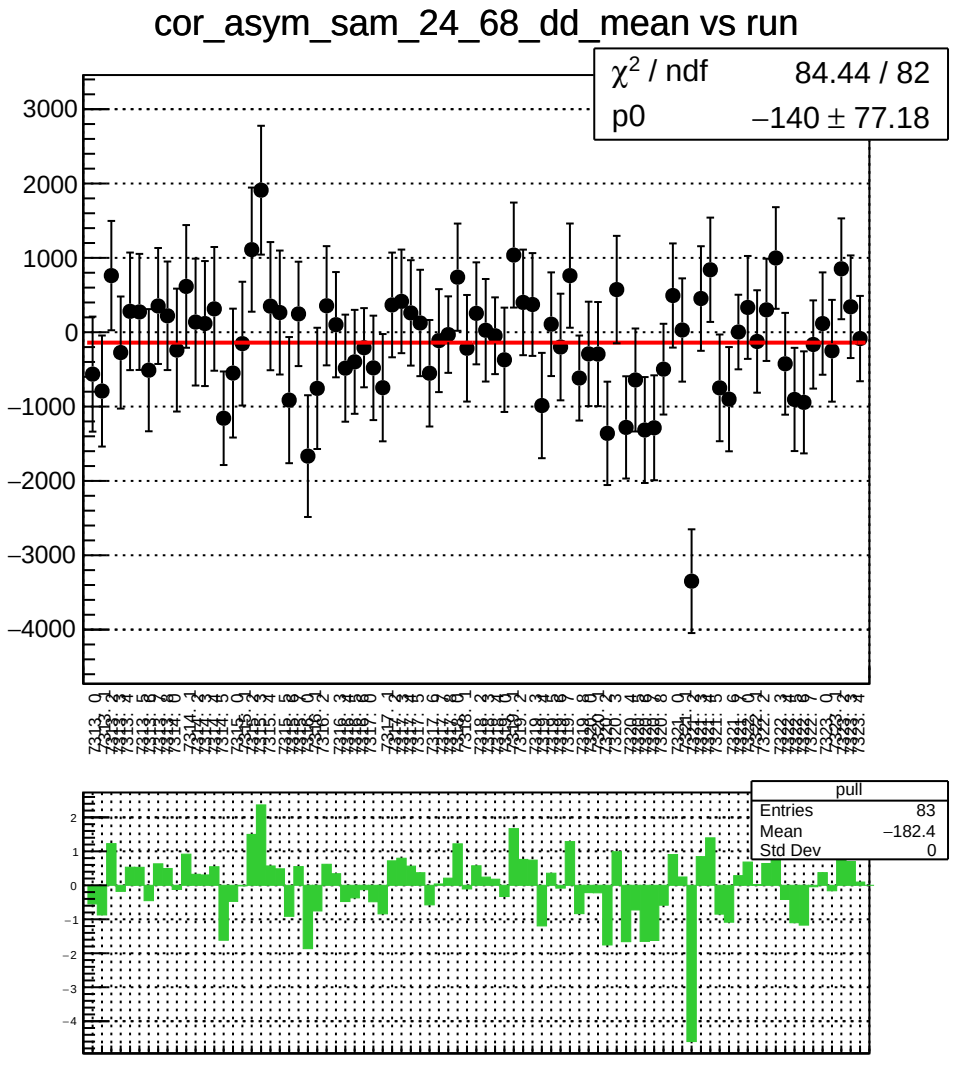

pull1D
Entries 83
Mean 0.01077
Std Dev 1.009

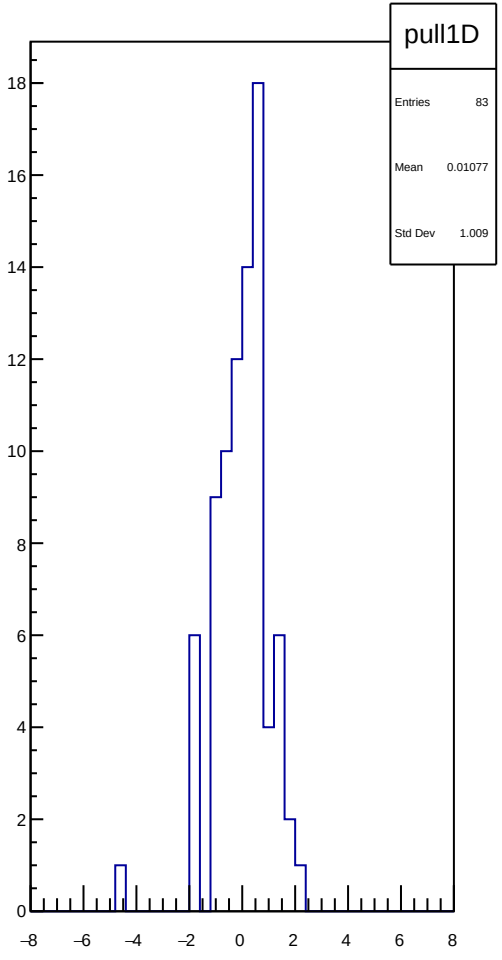

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 8647 / 82
p0 69.09 ± 0.05457
84
82
80
78
76
74
72
70
68
66
64
62

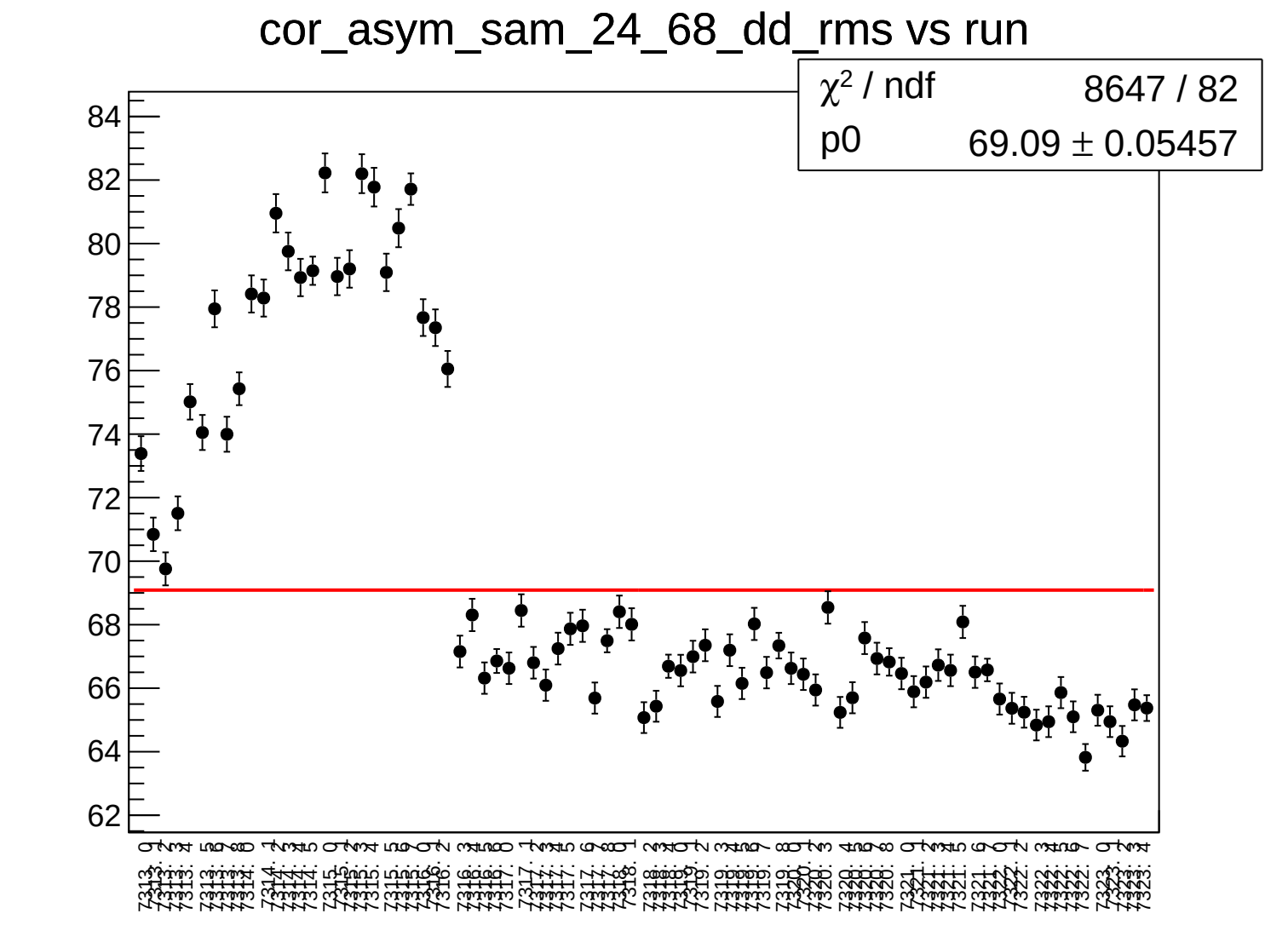

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 64.6 / 82
p0 −508.4 ± 867
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −170.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

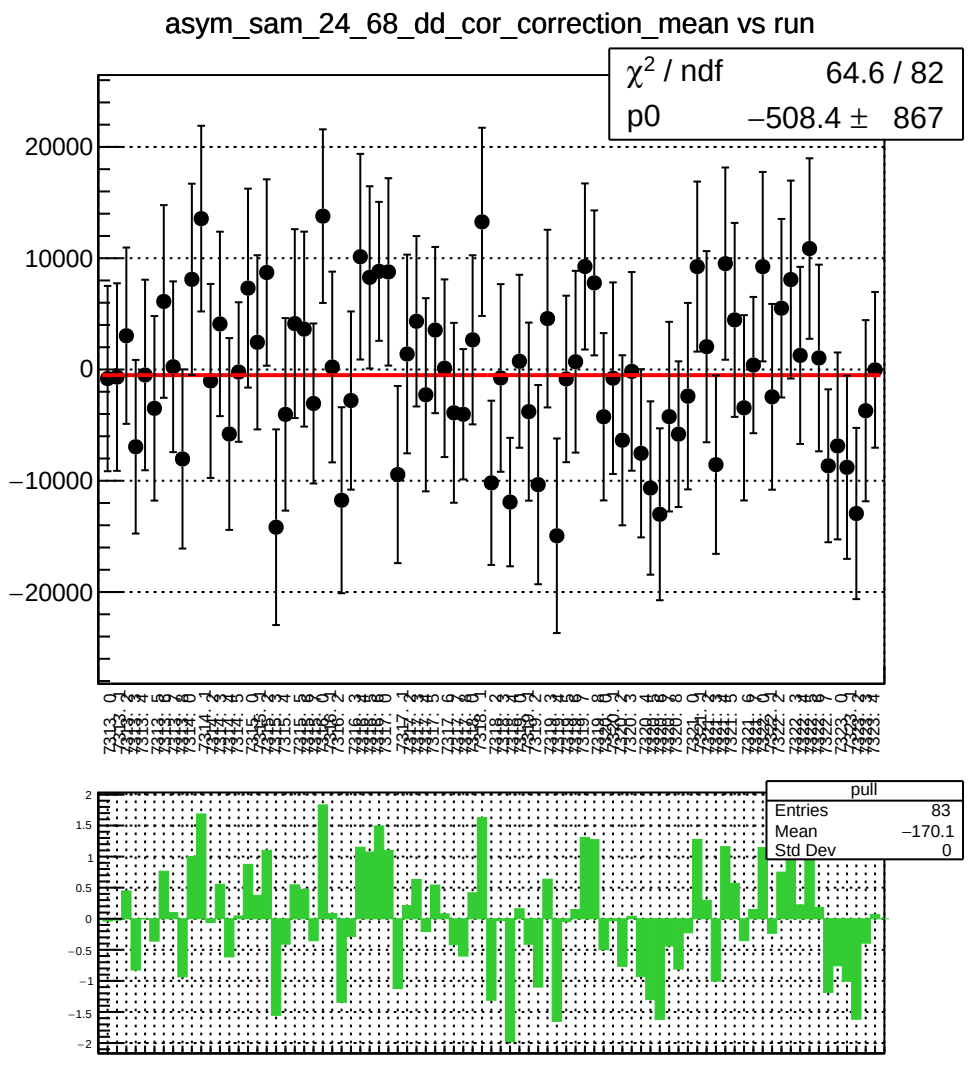

pull1D
Entries 83
Mean 0.01381
Std Dev 0.8821
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

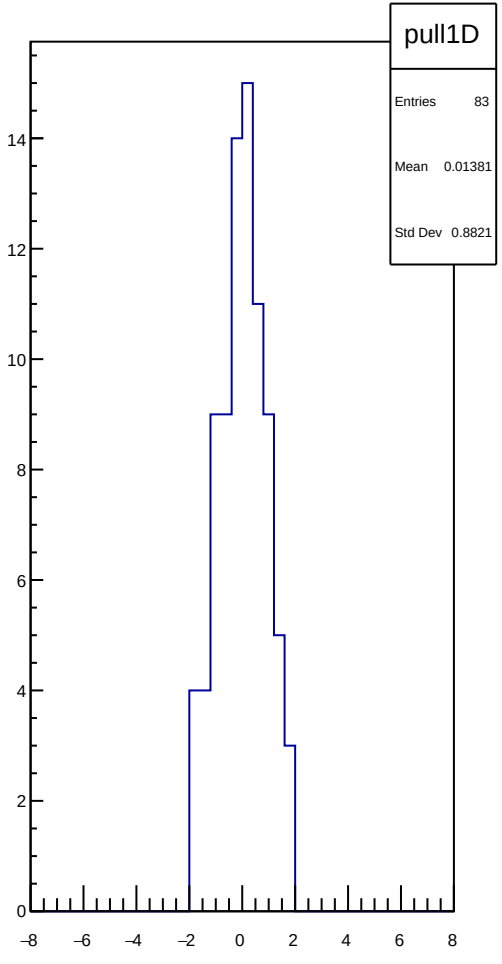

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4424 / 82
p0 777.1 ± 0.613
900
850
800
750
700

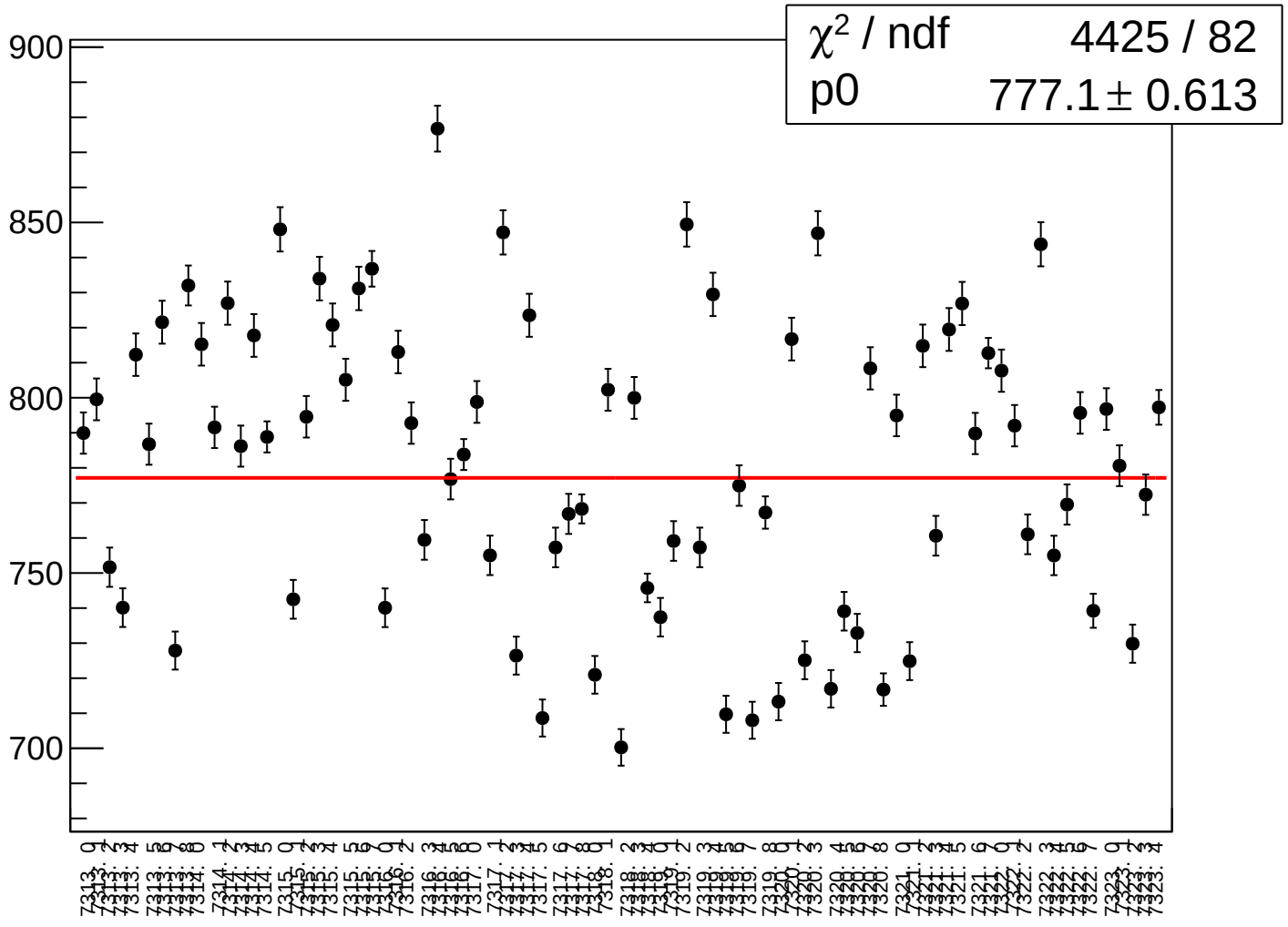

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.44 / 82
p0 −140 ± 77.18
pull
Entries 83
Mean −182.4
Std Dev 0

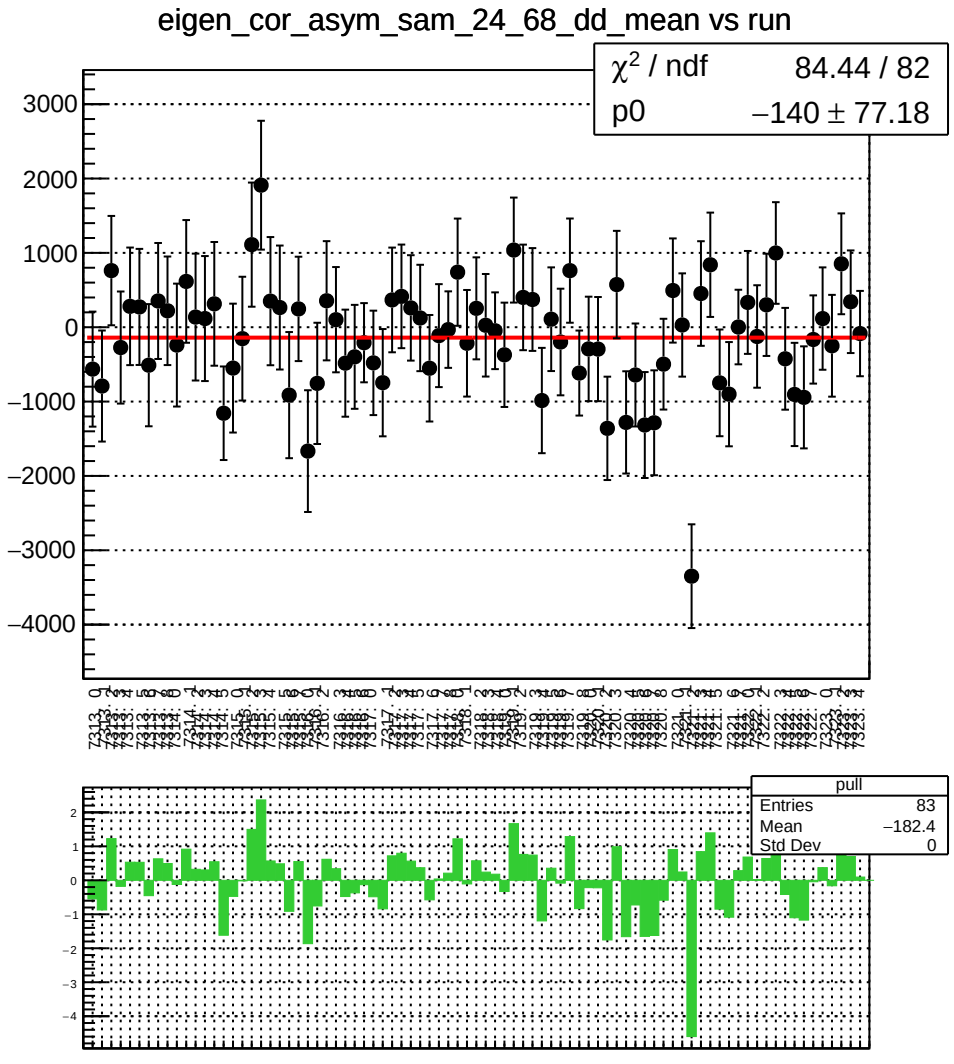

pull1D
Entries 83
Mean 0.01077
Std Dev 1.009

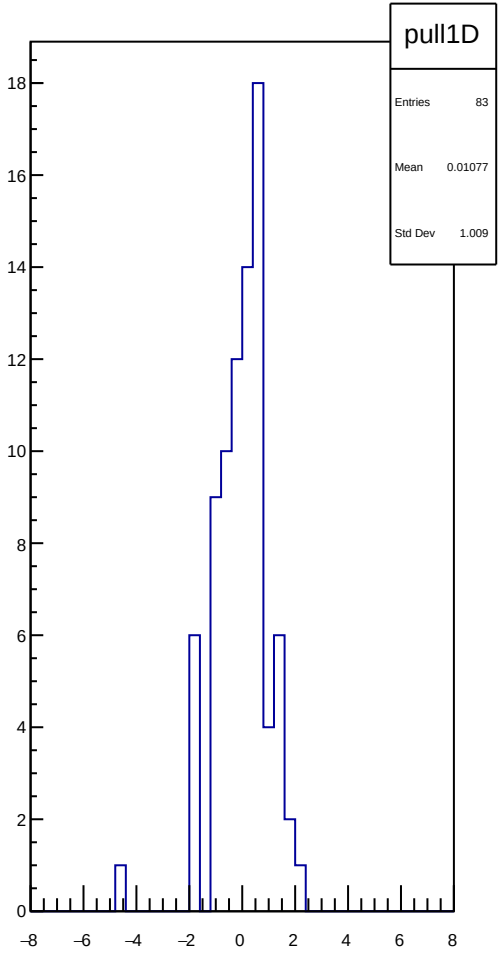

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 8647 / 82
p0 69.09 ± 0.05457
84
82
80
78
76
74
72
70
68
66
64
62

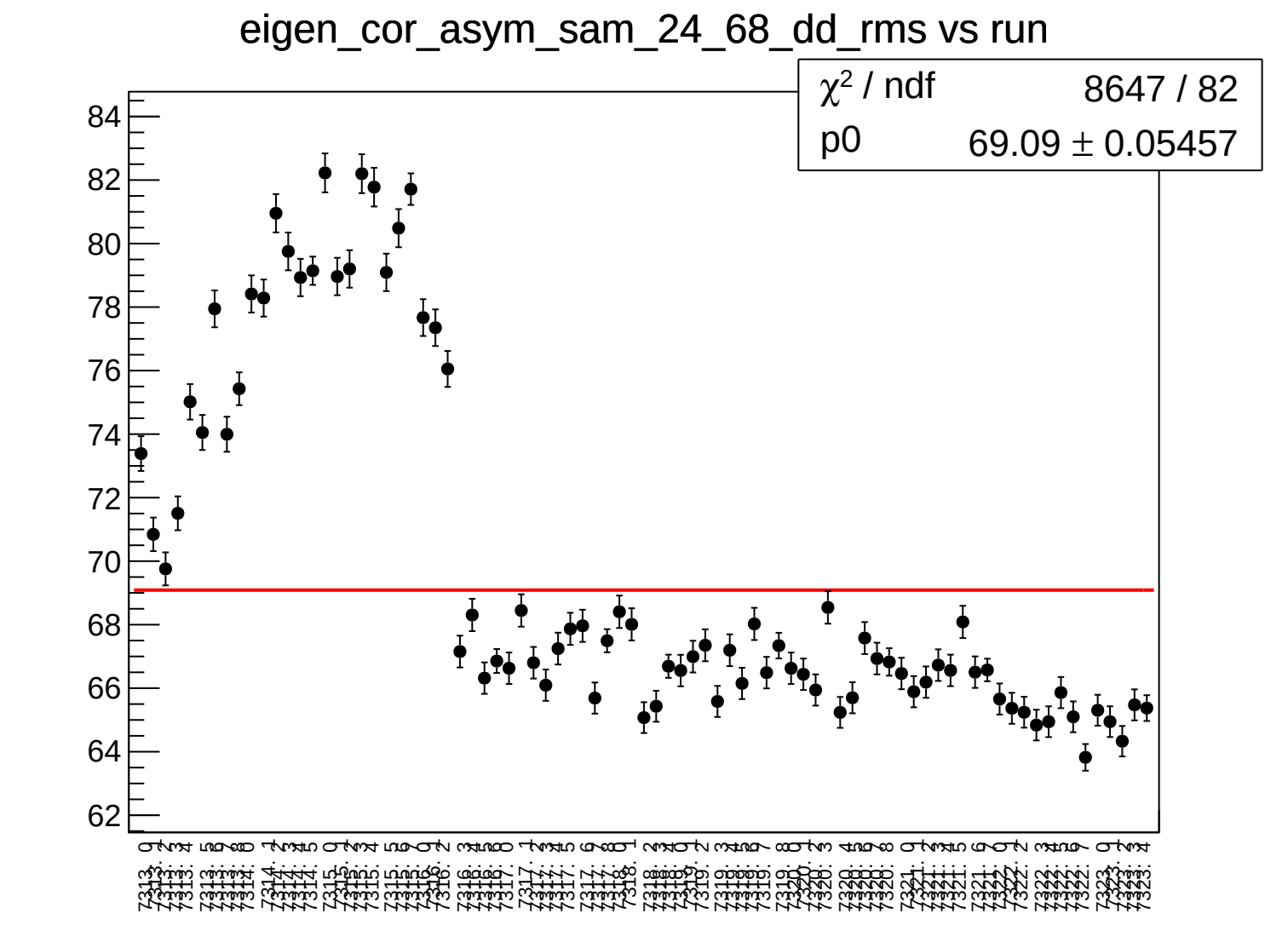

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 64.6 / 82
p0 −508.4 ± 867
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −170.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

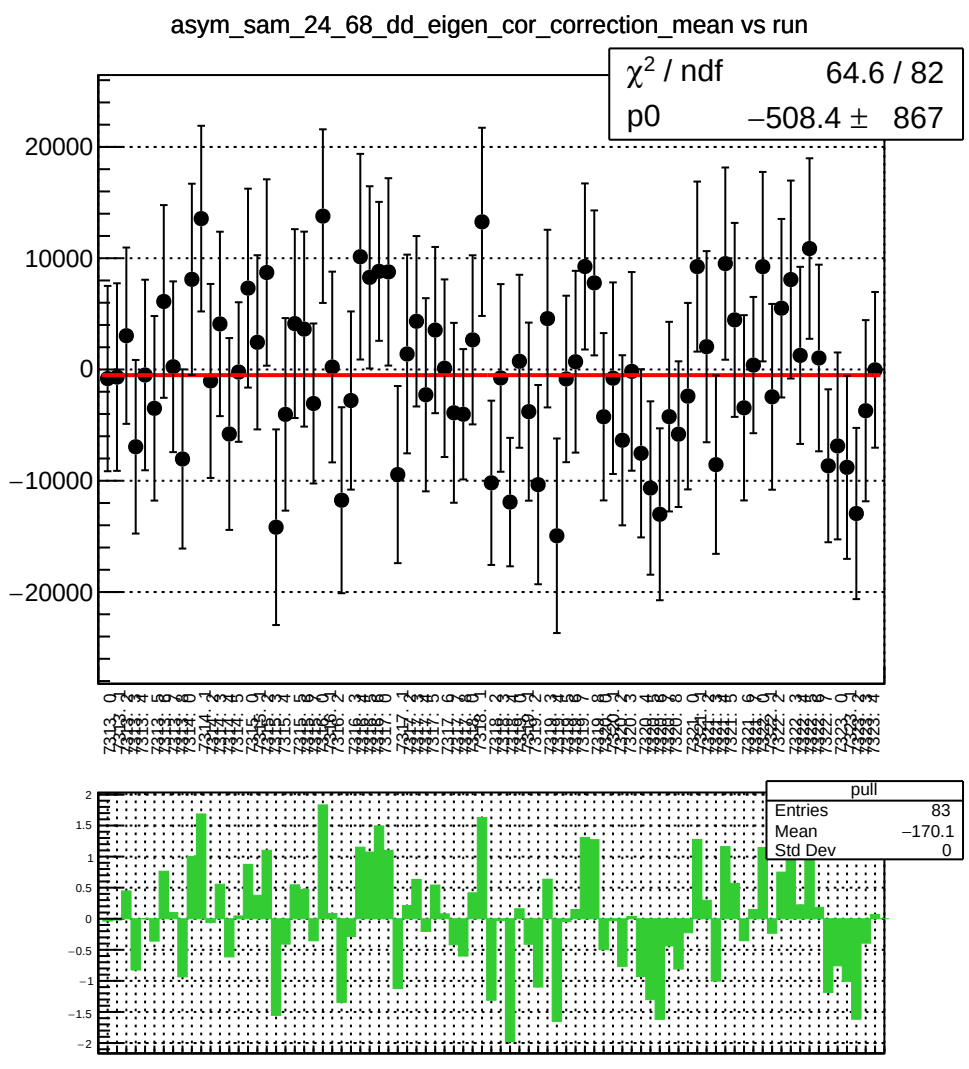

pull1D
Entries 83
Mean 0.01381
Std Dev 0.8821
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

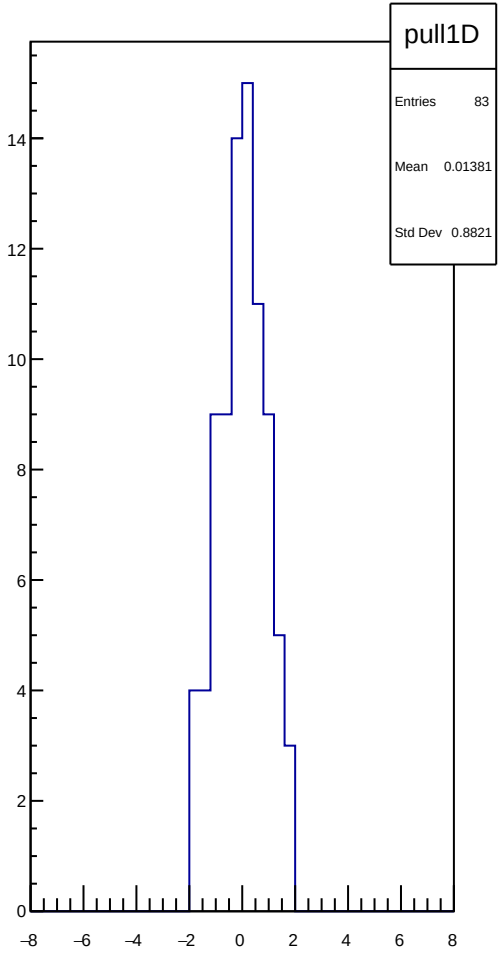

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4425 / 82
p0 777.1 ± 0.613
900
850
800
750
700

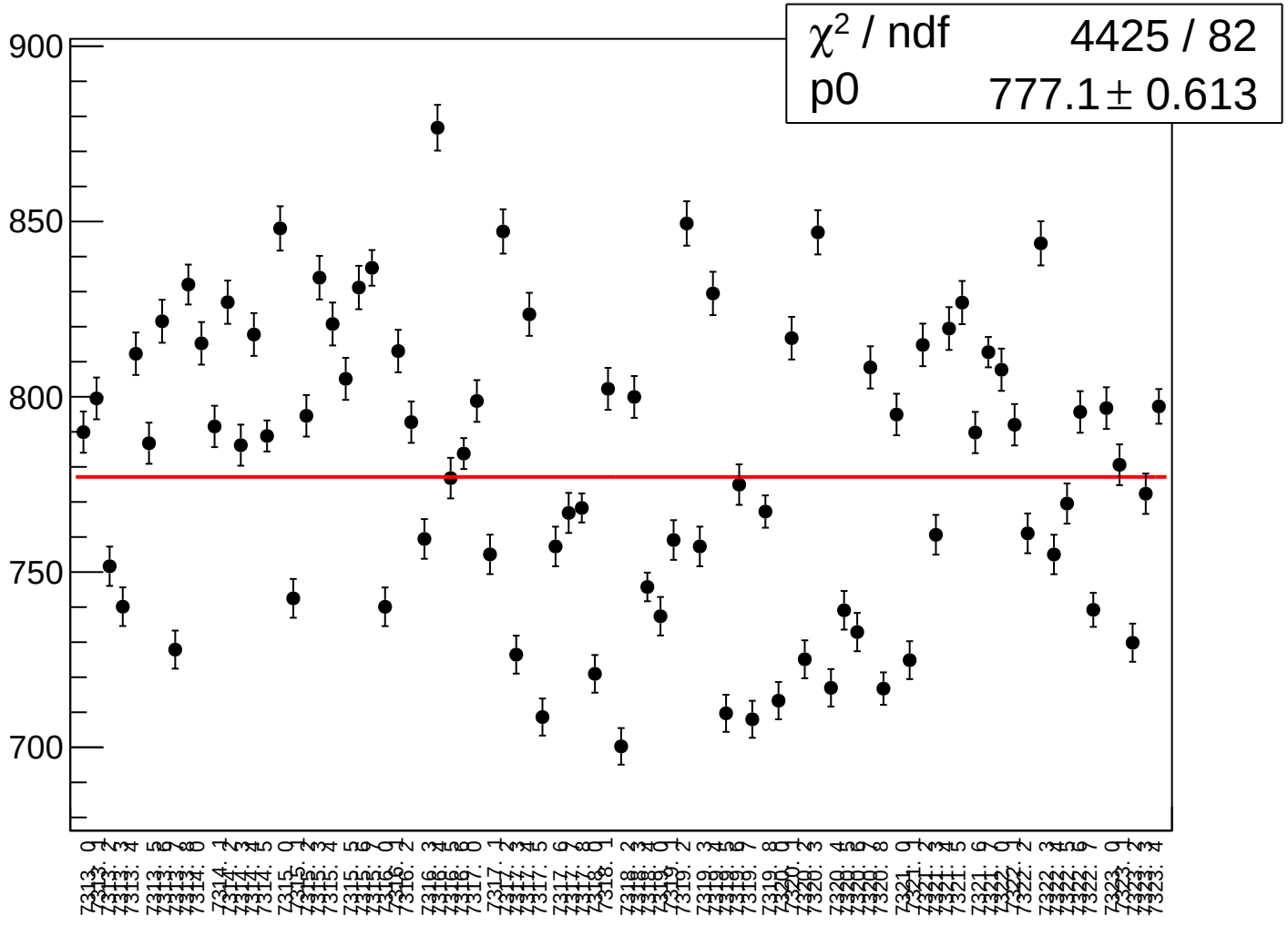

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.44 / 82
p0 −140 ± 77.18
pull
Entries 83
Mean −182.4
Std Dev 0

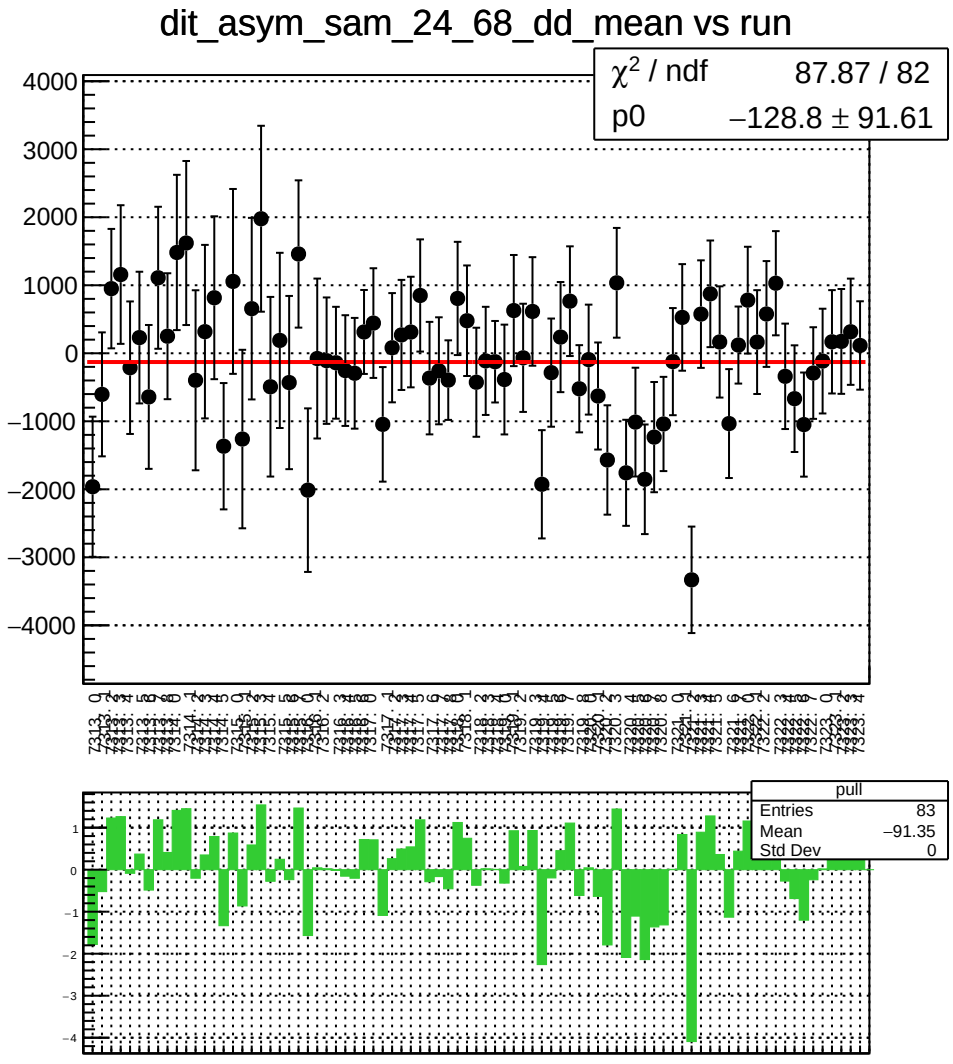

pull1D
Entries 83
Mean 0.01077
Std Dev 1.009

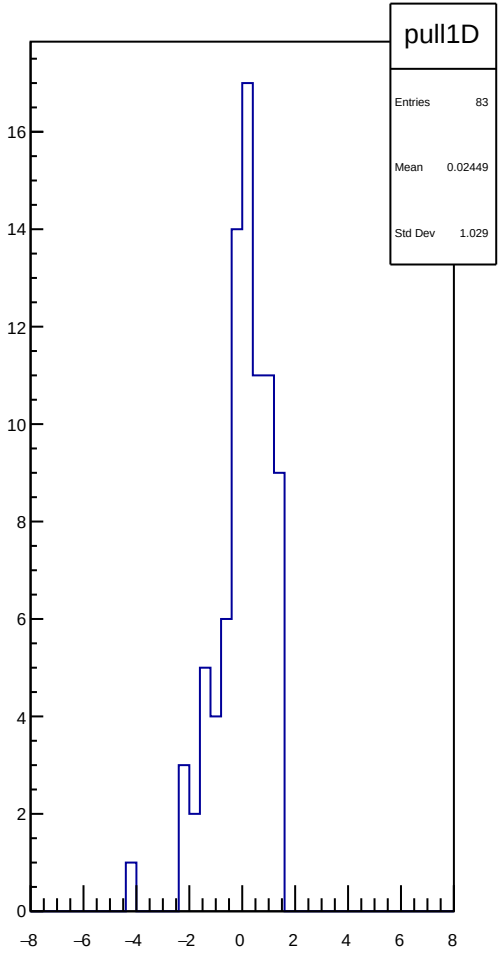

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 8647 / 82
p0 69.09 ± 0.05457
84
82
80
78
76
74
72
70
68
66
64
62

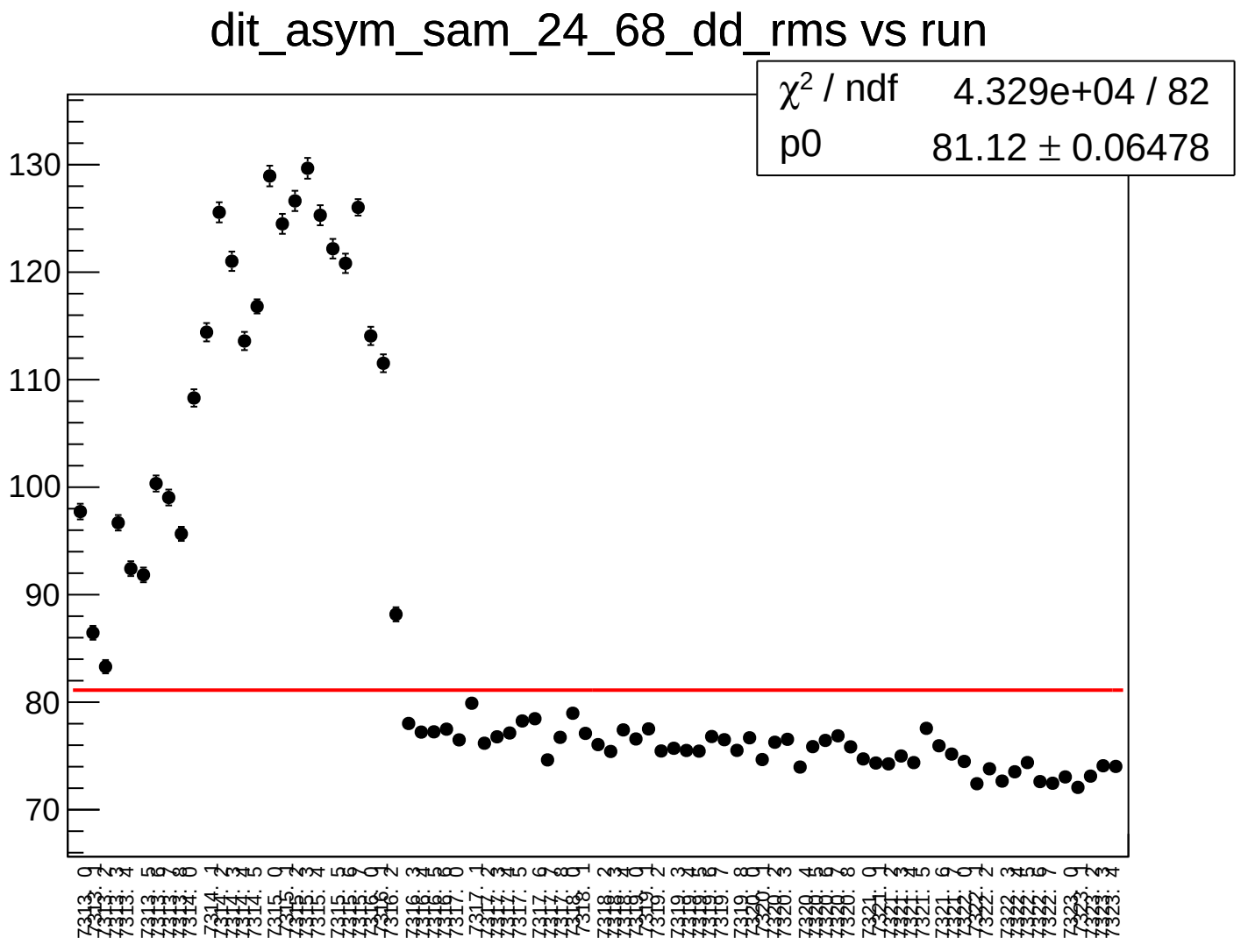

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.6 / 82
p0 −508.4 ± 867
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −170.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

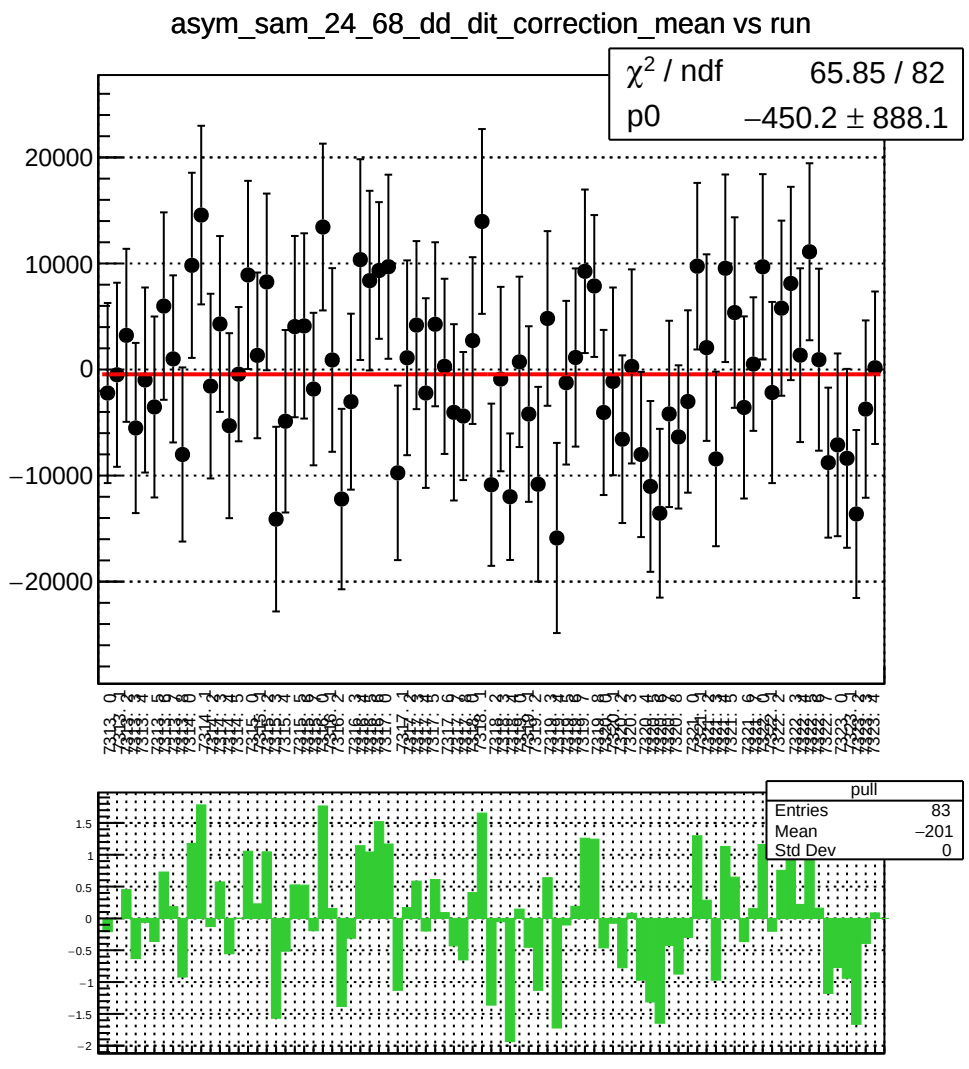

pull1D
Entries 83
Mean 0.01381
Std Dev 0.8821
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

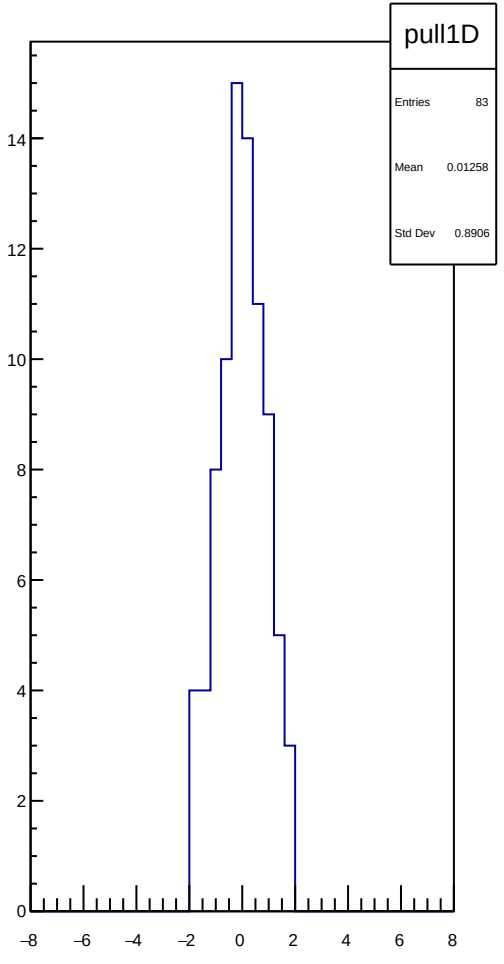

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4425 / 82
p0 777.1 ± 0.613
900
850
800
750
700

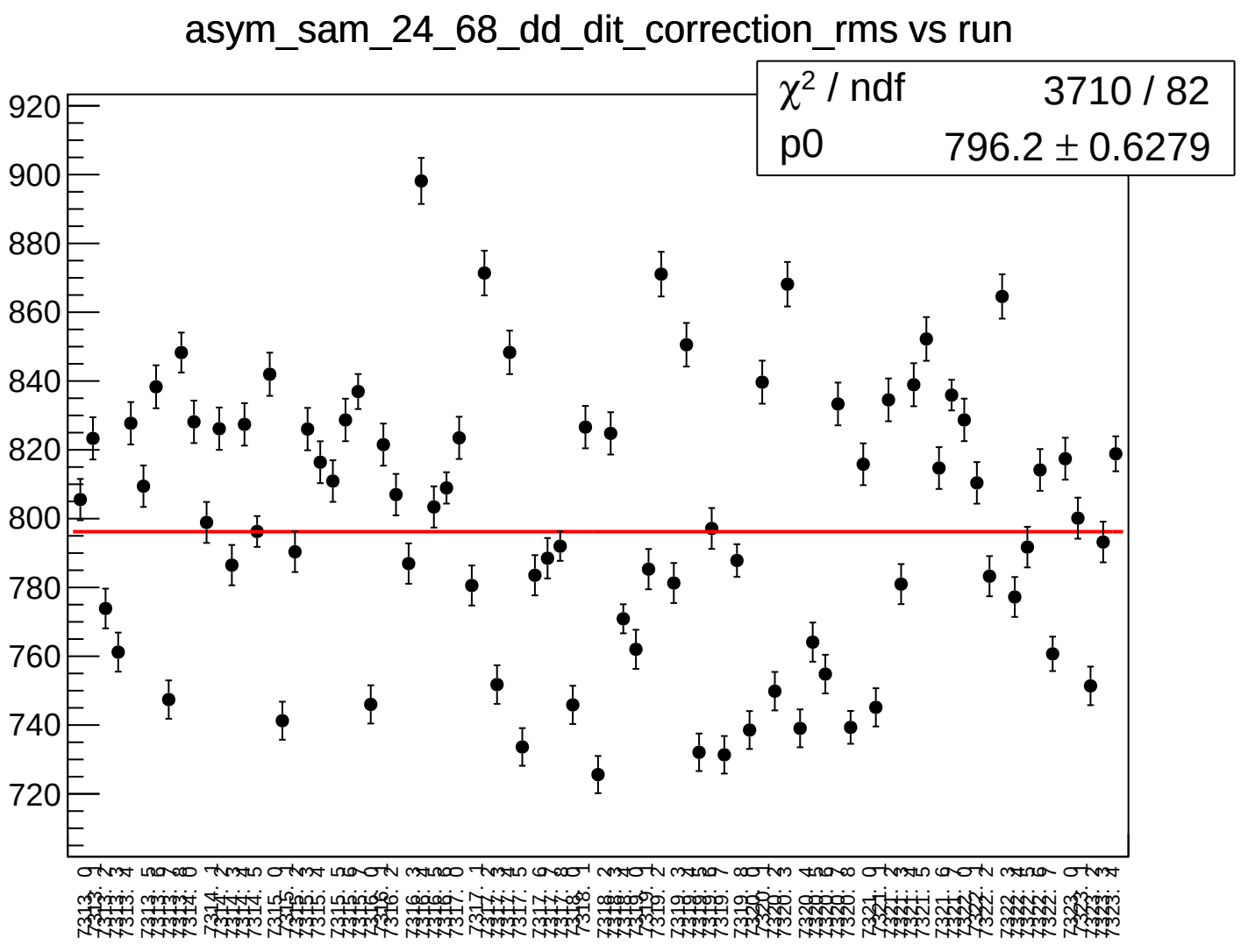

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.87 / 82
p0 −128.8 ± 91.61
pull
Entries 83
Mean −91.35
Std Dev 0

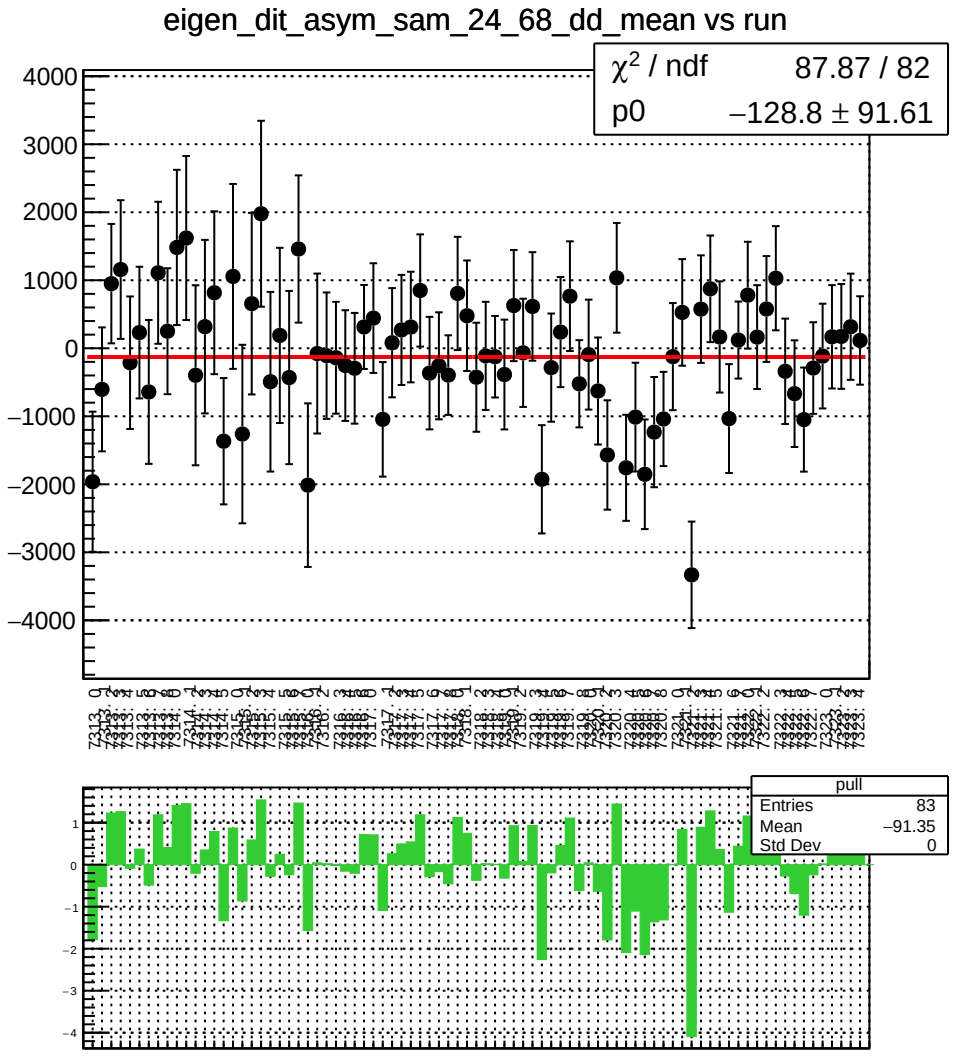

pull1D
Entries 83
Mean 0.02449
Std Dev 1.029

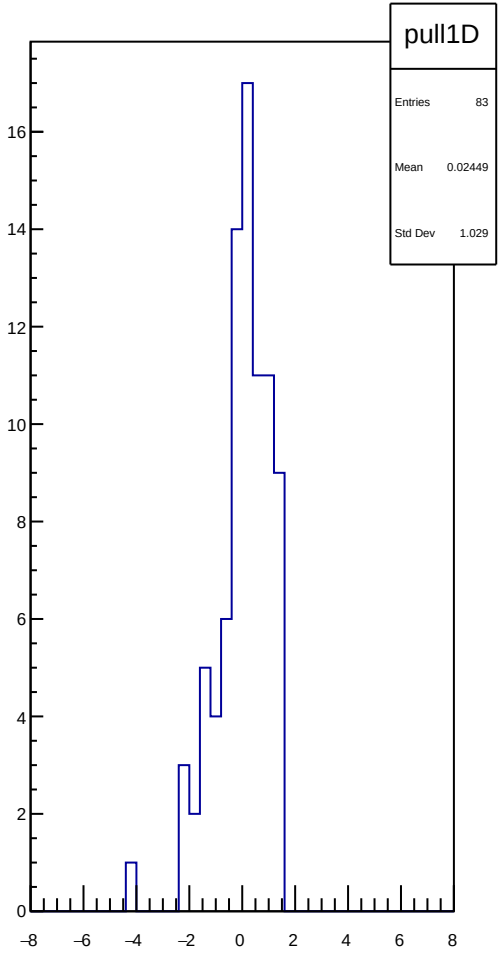

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4.329e+04 / 82
p0 81.12 ± 0.06478
130
120
110
100
90
80
70

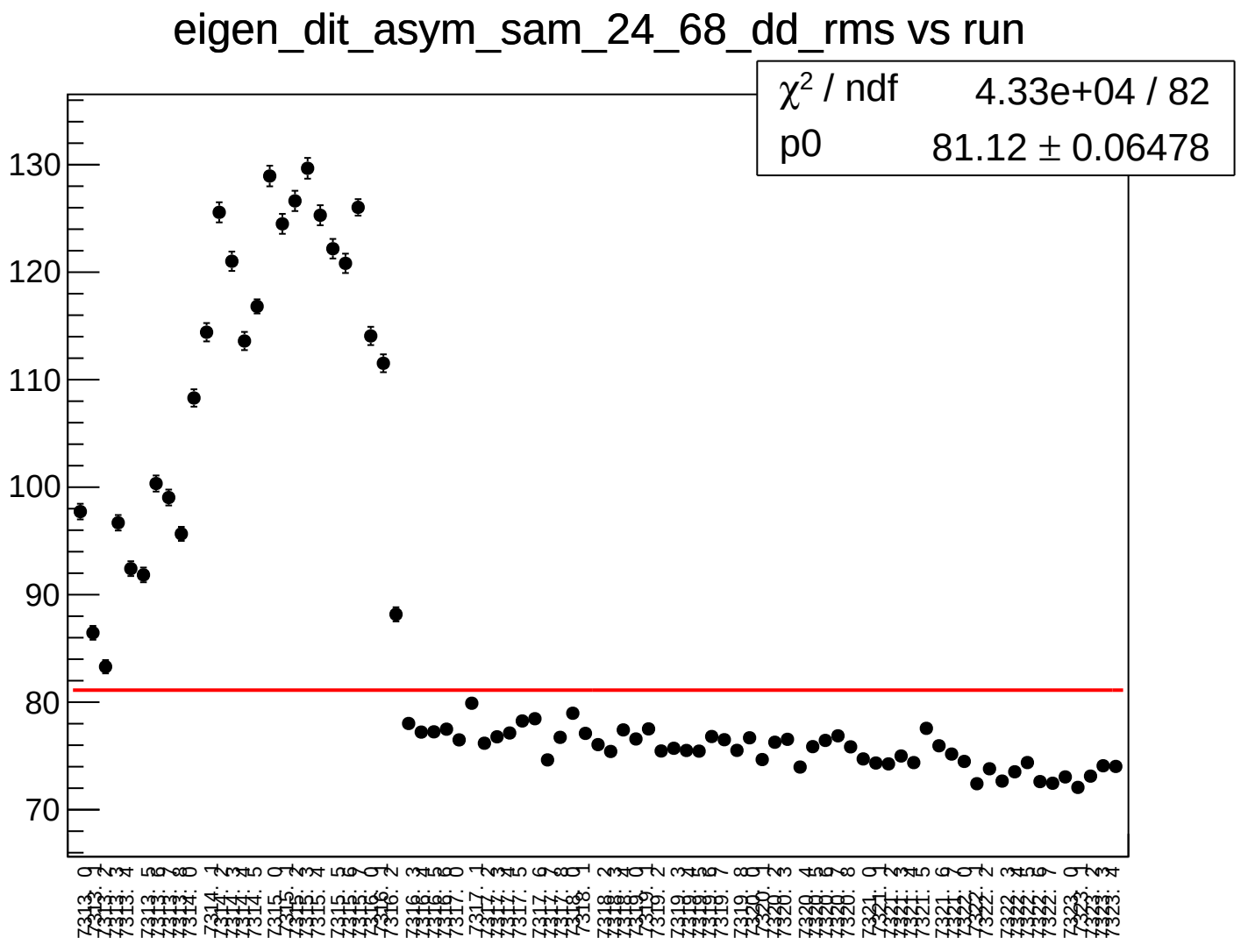

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 65.85 / 82
p0 −450.2 ± 888.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −201
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

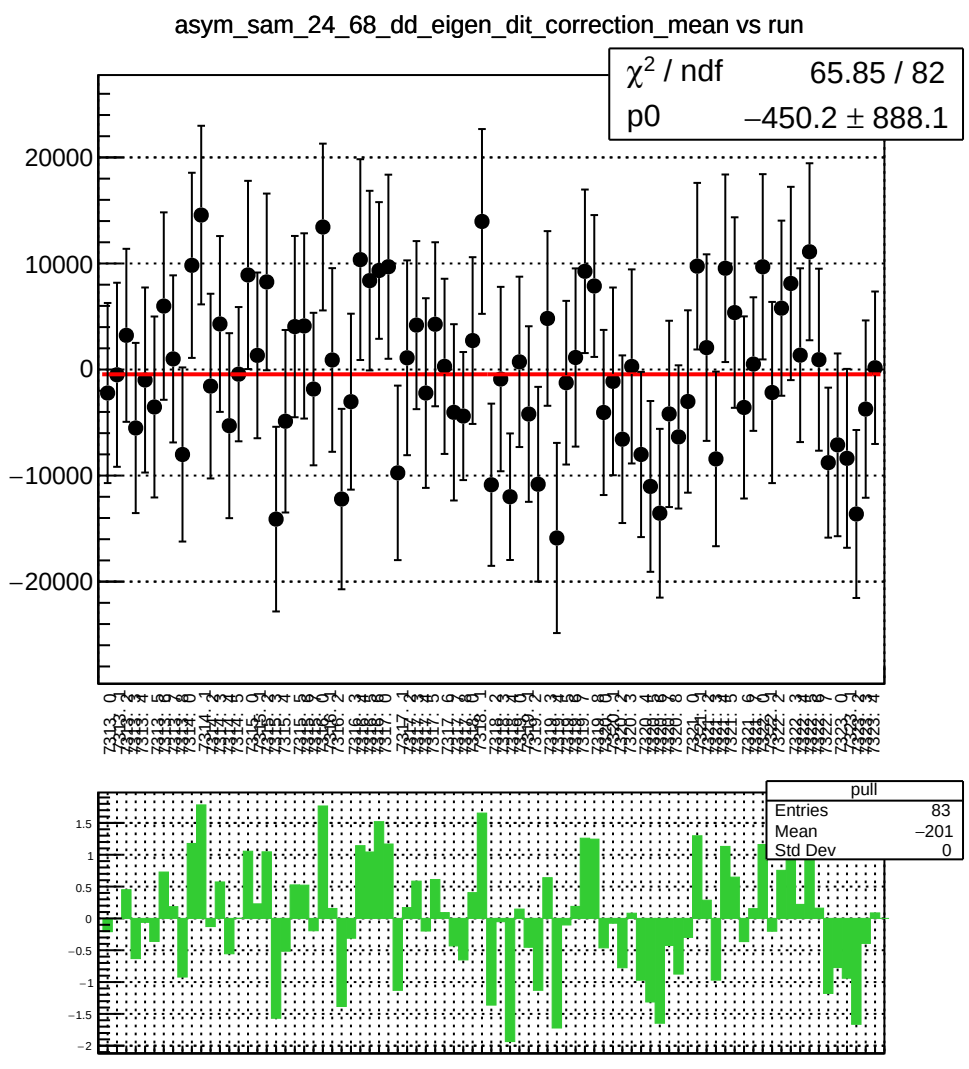

pull1D
Entries 83
Mean 0.01258
Std Dev 0.8906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

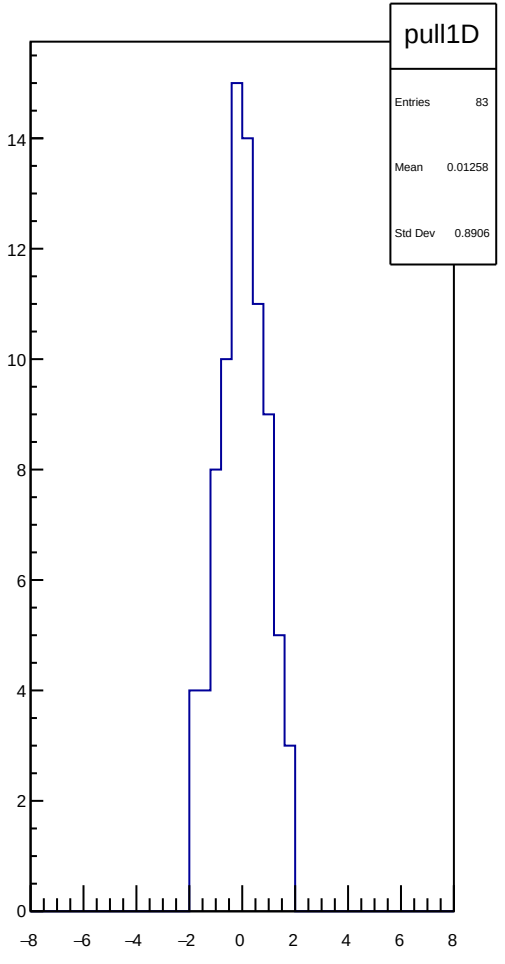

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3710 / 82
p0 796.2 ± 0.6279
920
900
880
860
840
820
800
780
760
740
720

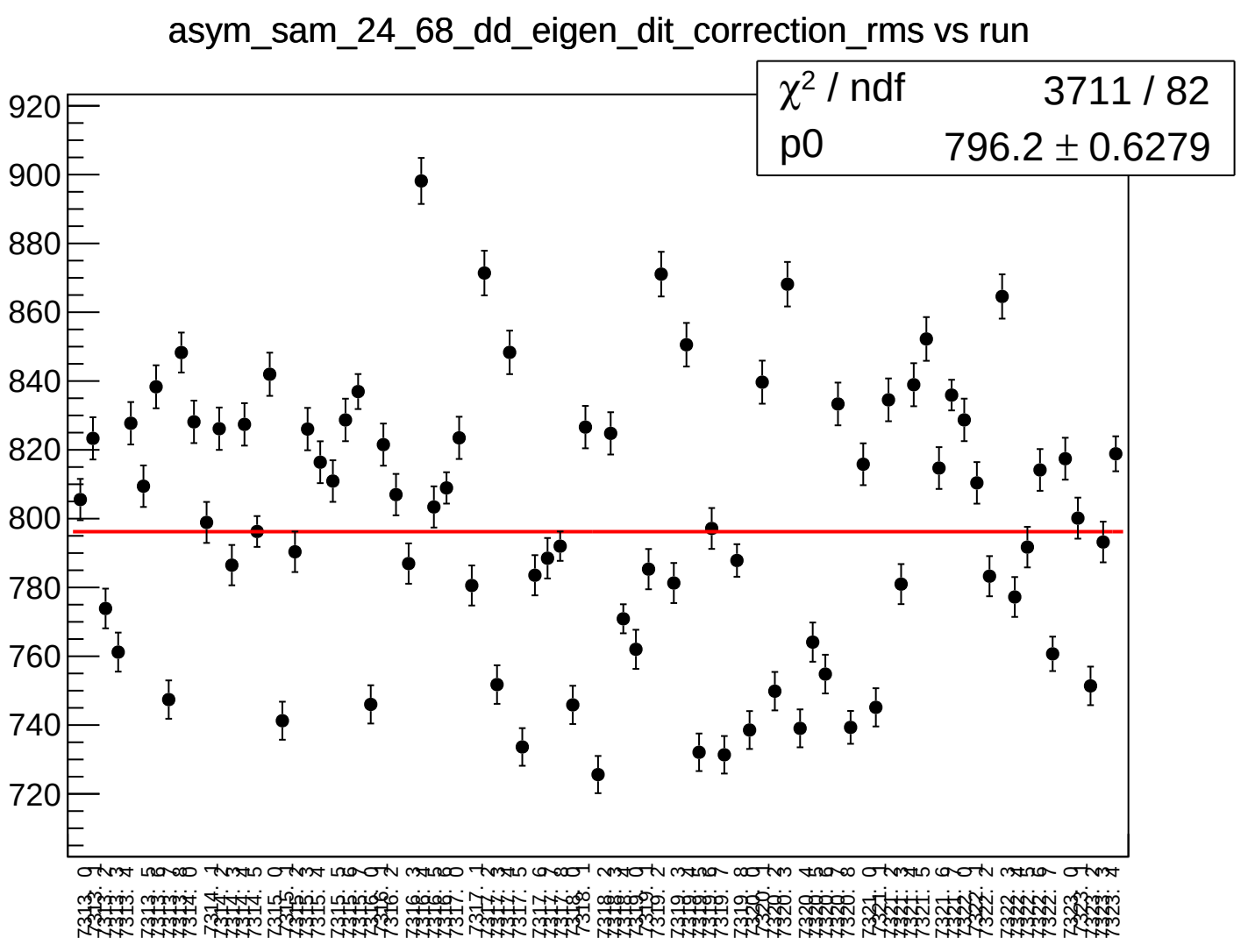

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.87 / 82
p0 −128.8 ± 91.61
pull
Entries 83
Mean −91.35
Std Dev 0

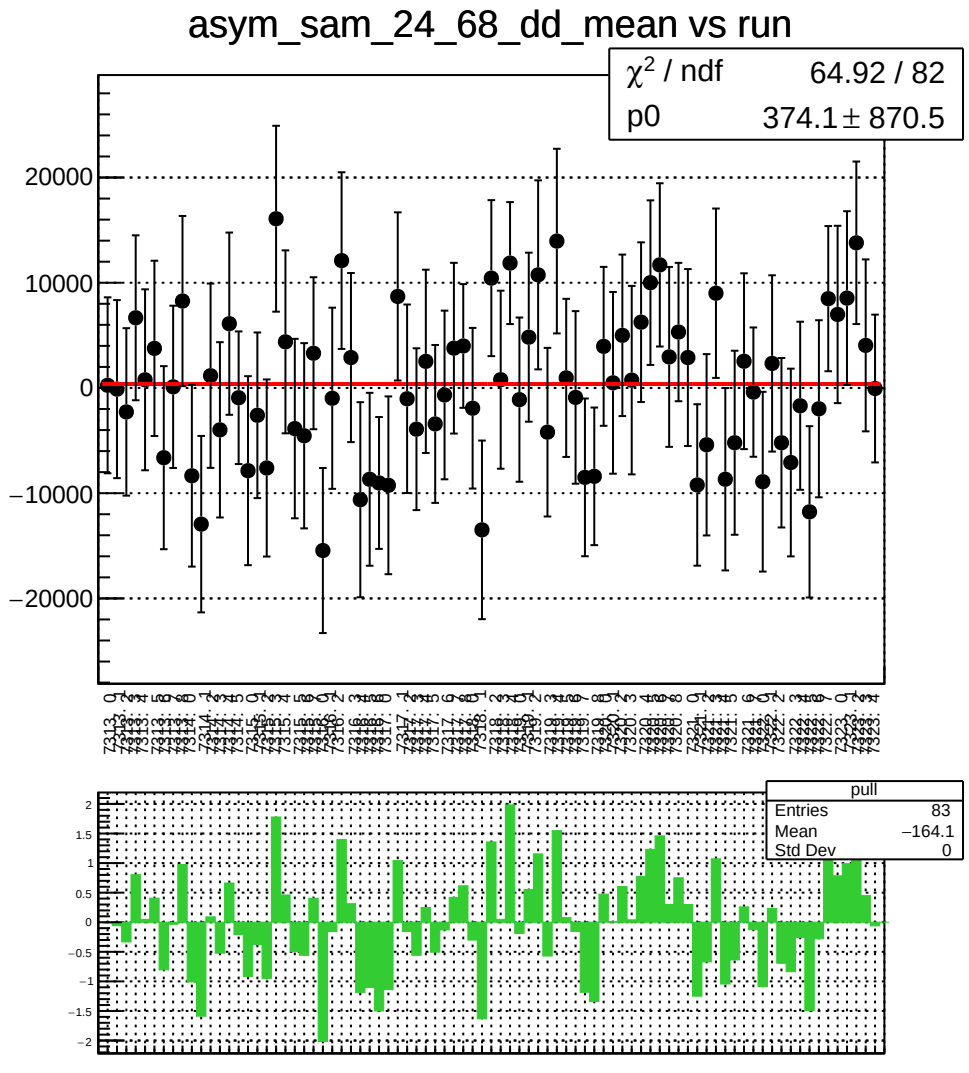

pull1D
Entries 83
Mean 0.02449
Std Dev 1.029

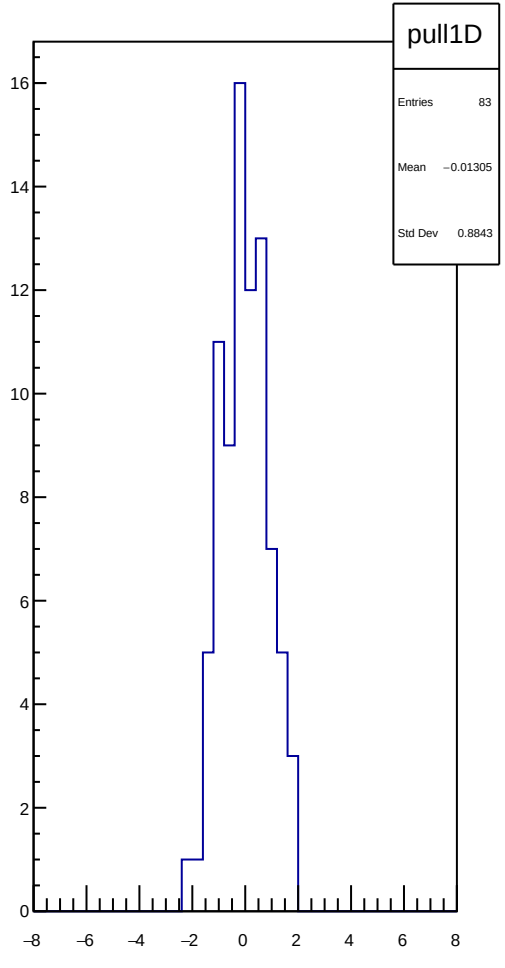

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4.33e+04 / 82
p0 81.12 ± 0.06478
130
120
110
100
90
80
70

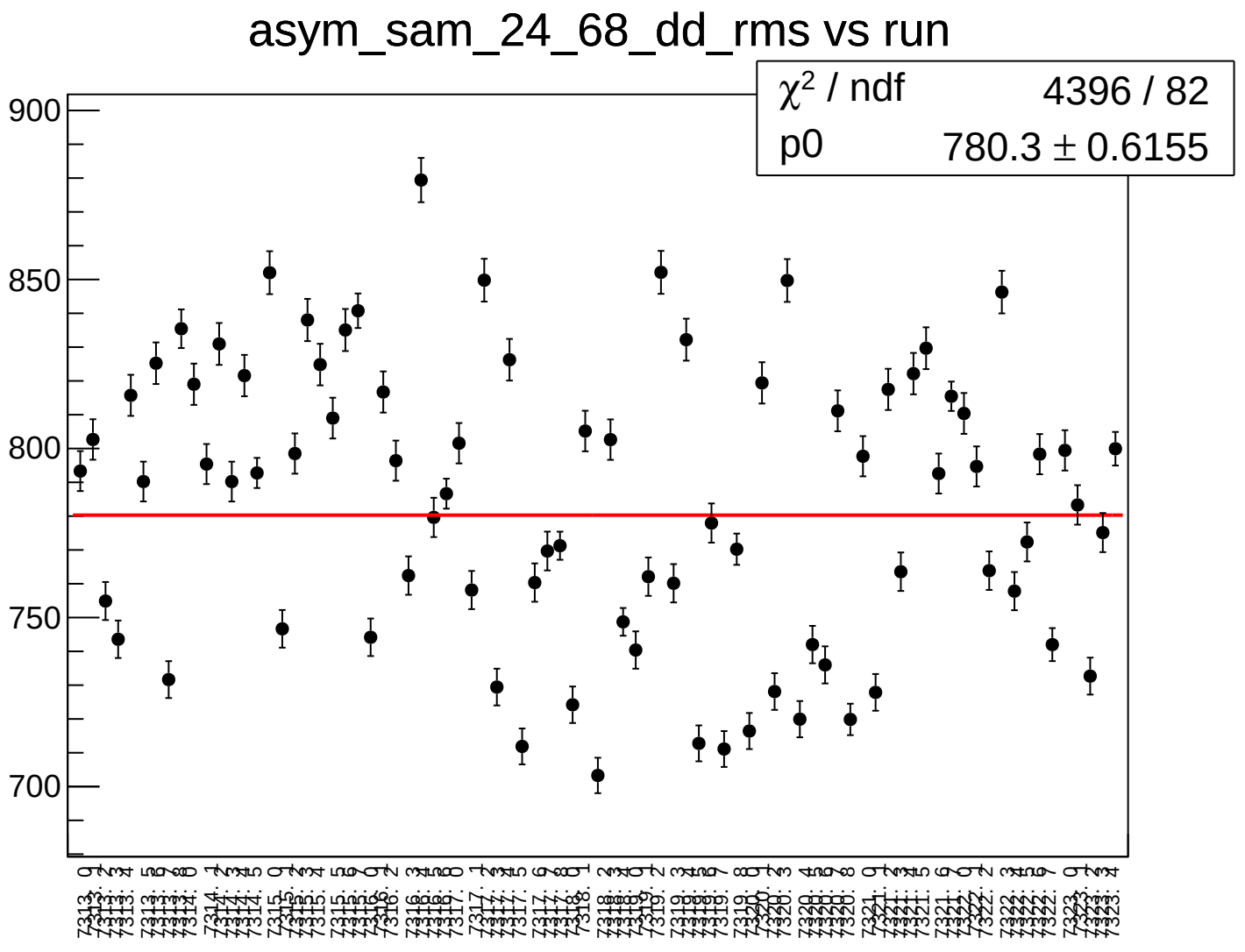

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.85 / 82
p0 −450.2 ± 888.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −201
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

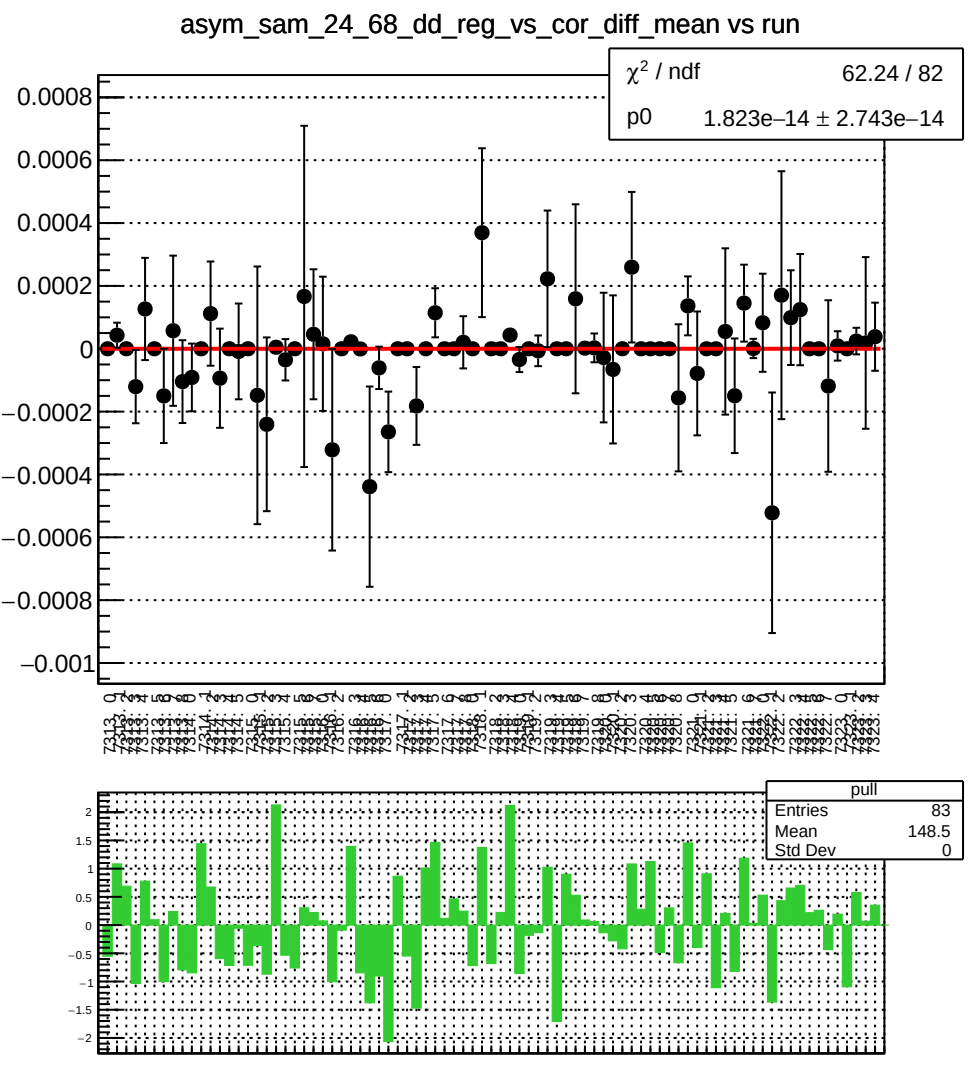

pull1D
Entries 83
Mean 0.01258
Std Dev 0.8906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

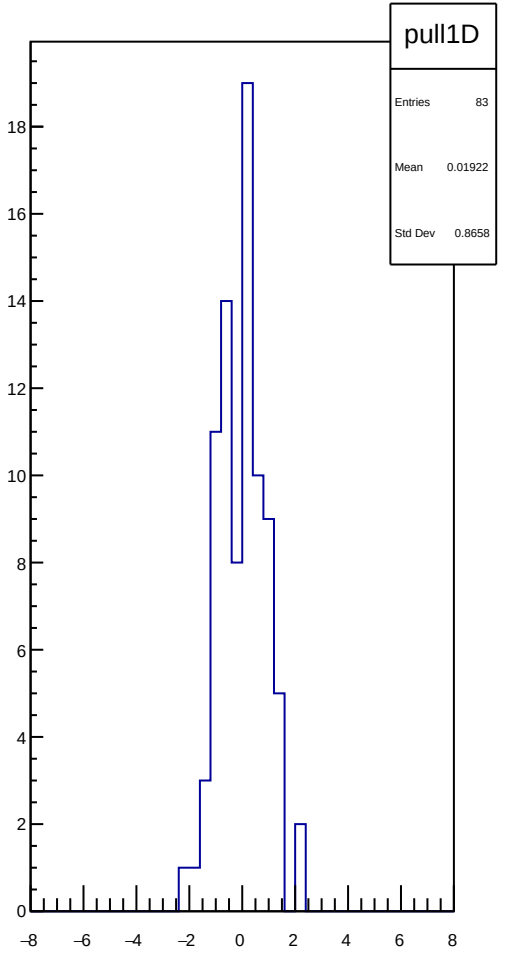

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3711 / 82
p0 796.2 ± 0.6279
920
900
880
860
840
820
800
780
760
740
720

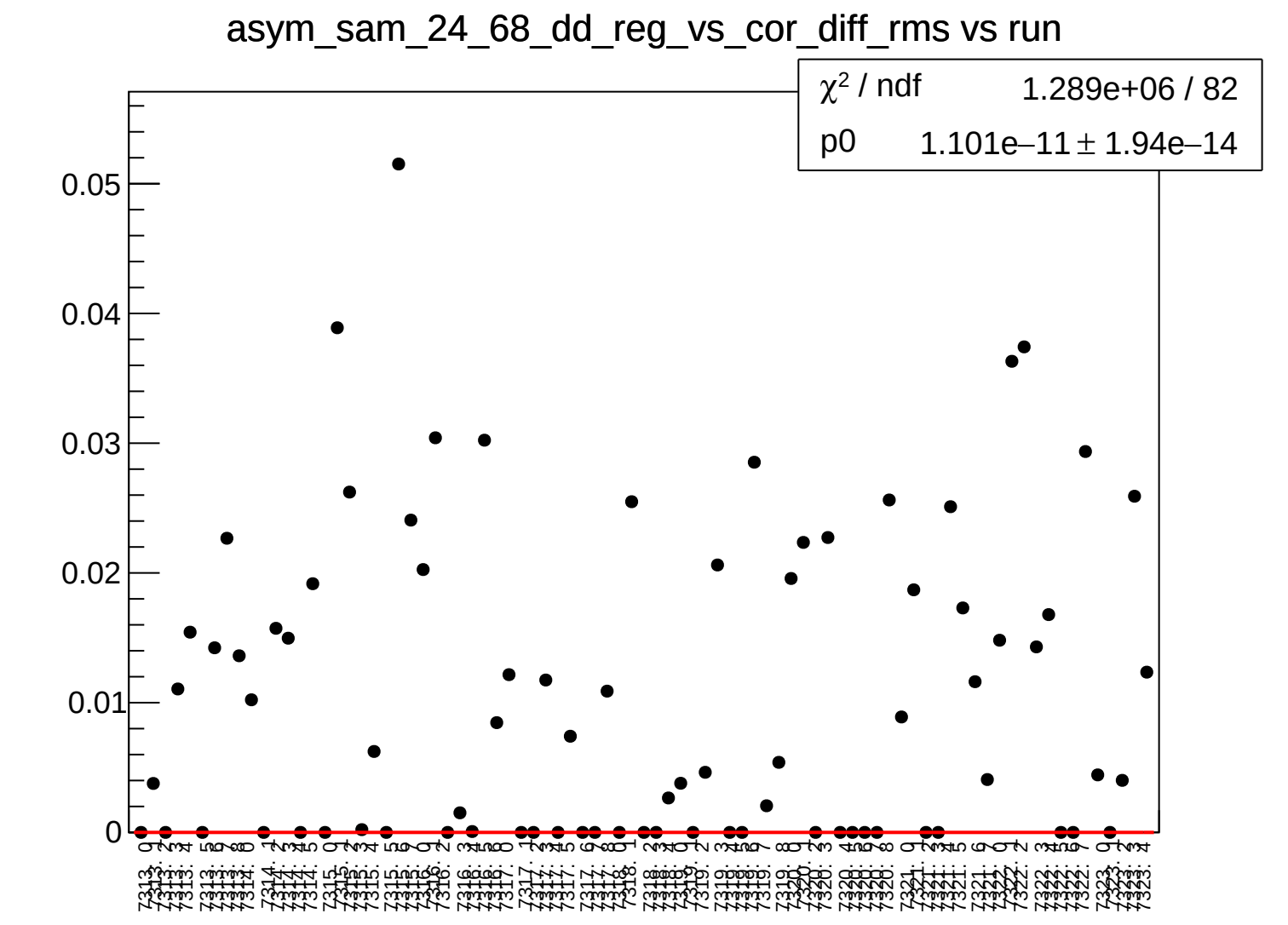

asym_sam_24_68_dd_mean vs run
χ² / ndf 64.92 / 82
p0 374.1 ± 870.5
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −164.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 83
Mean −0.01305
Std Dev 0.8843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

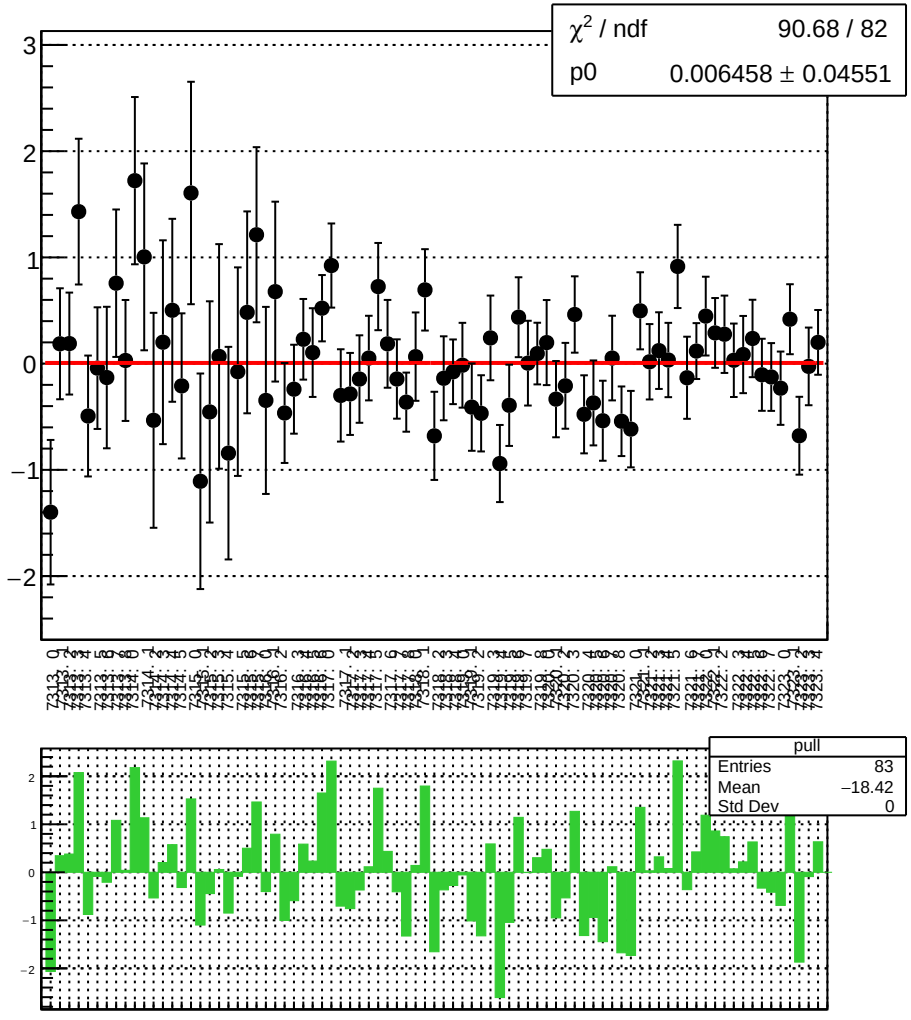

asym_sam_24_68_dd_rms vs run
χ² / ndf 4396 / 82
p0 780.3 ± 0.6155
900
850
800
750
700

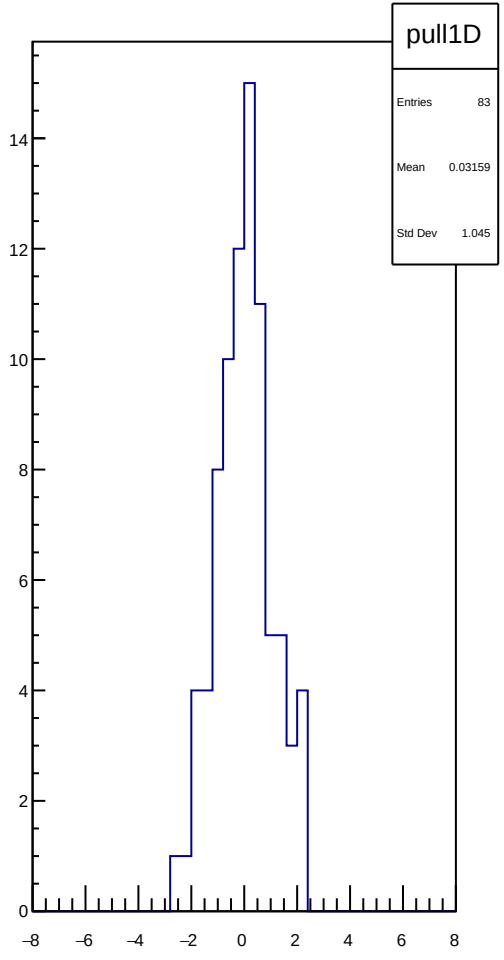

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 62.24 / 82
p0 1.823e−14 ± 2.743e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 83
Mean 148.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

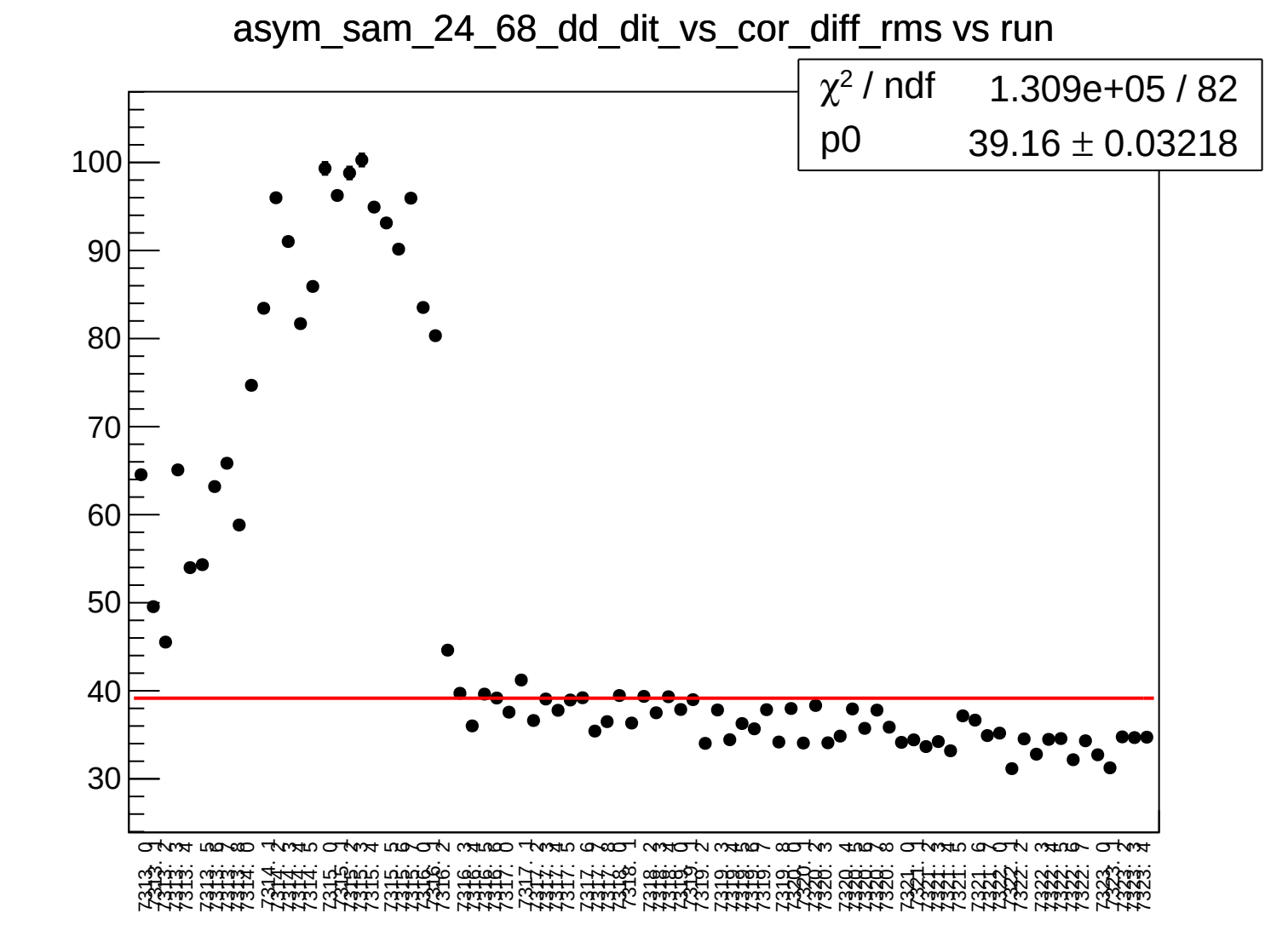

pull1D
Entries 83
Mean 0.01922
Std Dev 0.8658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

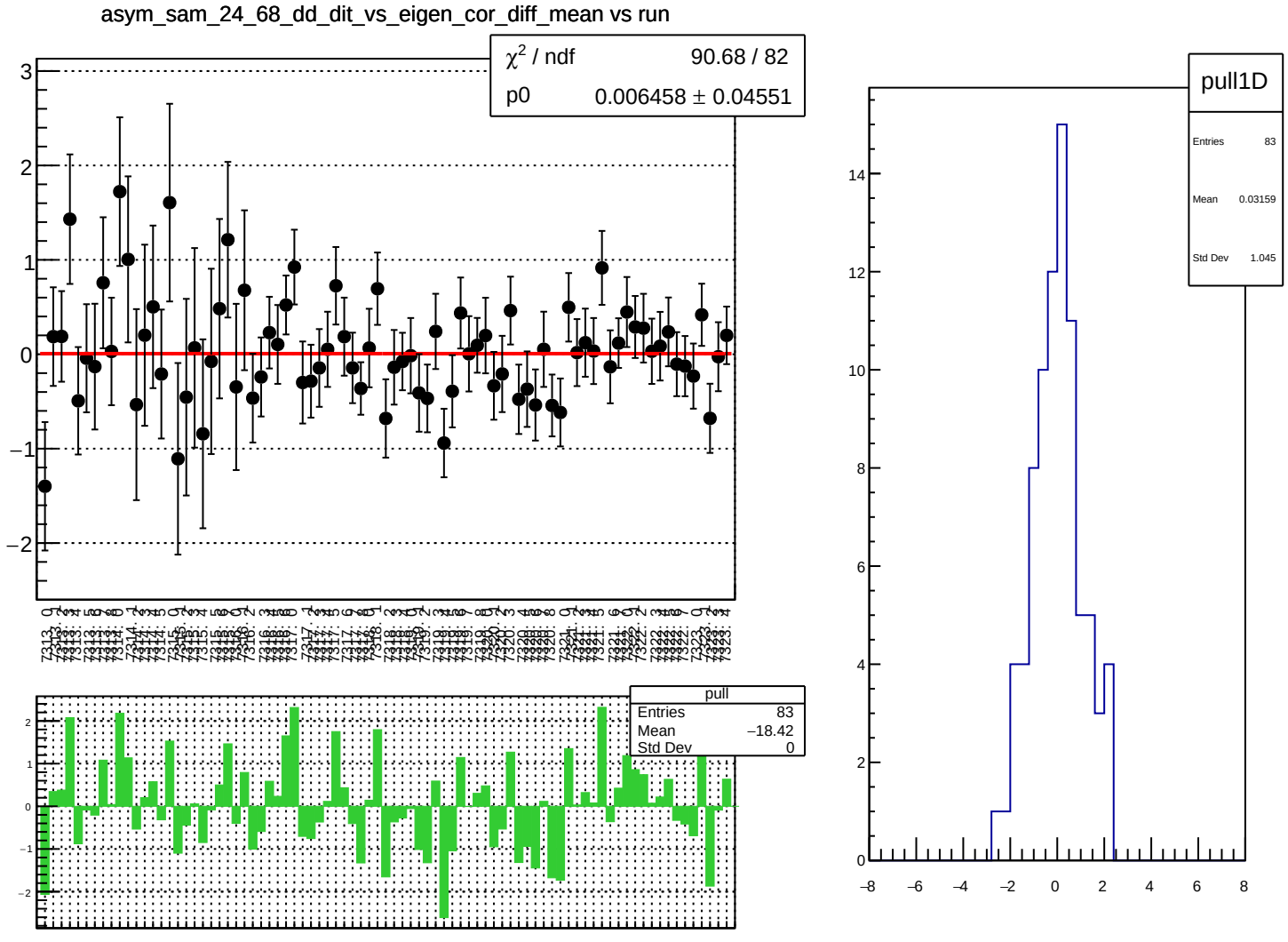

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.289e+06 / 82
p0 1.101e−11 ± 1.94e−14
0.05
0.04
0.03
0.02
0.01
0

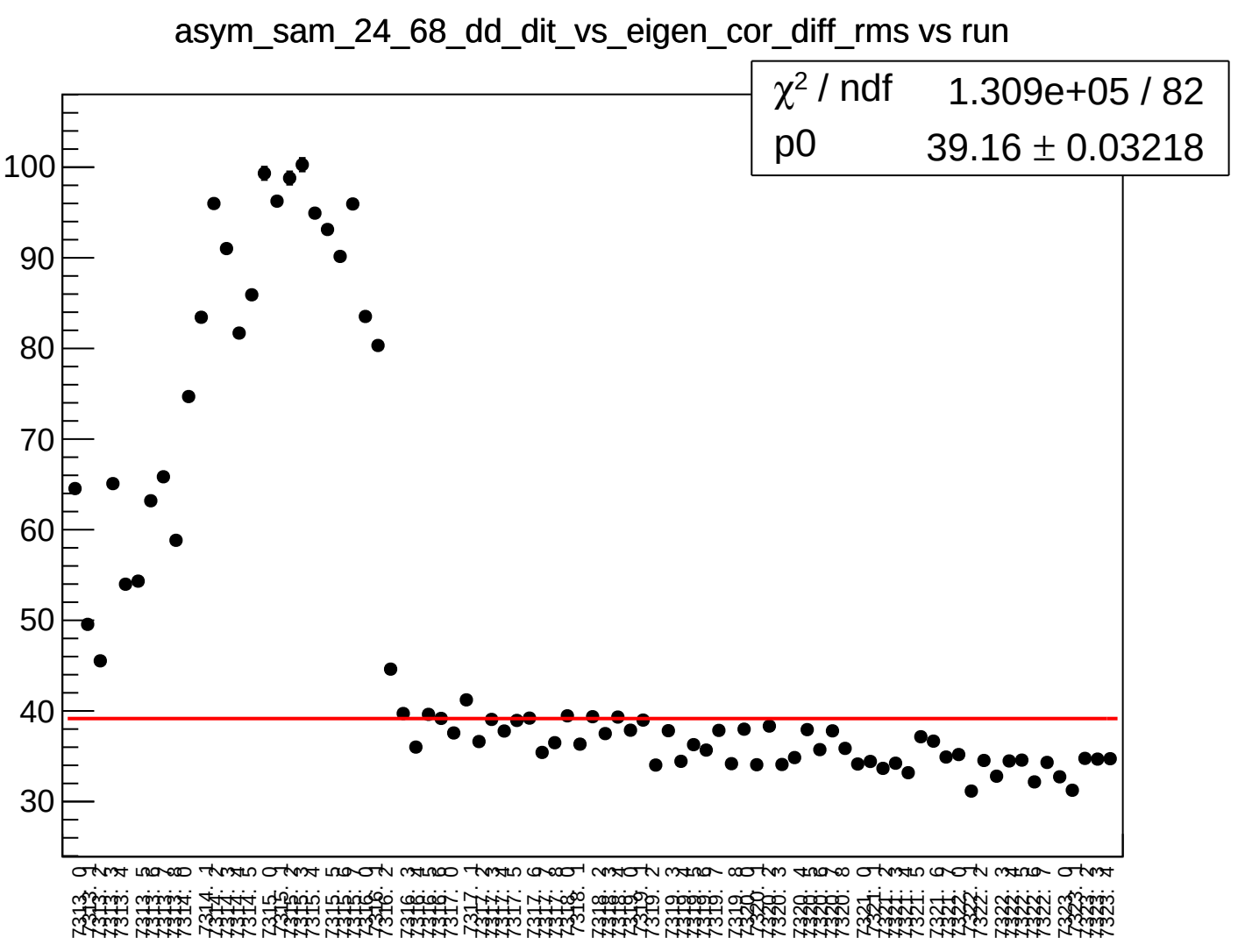
asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run

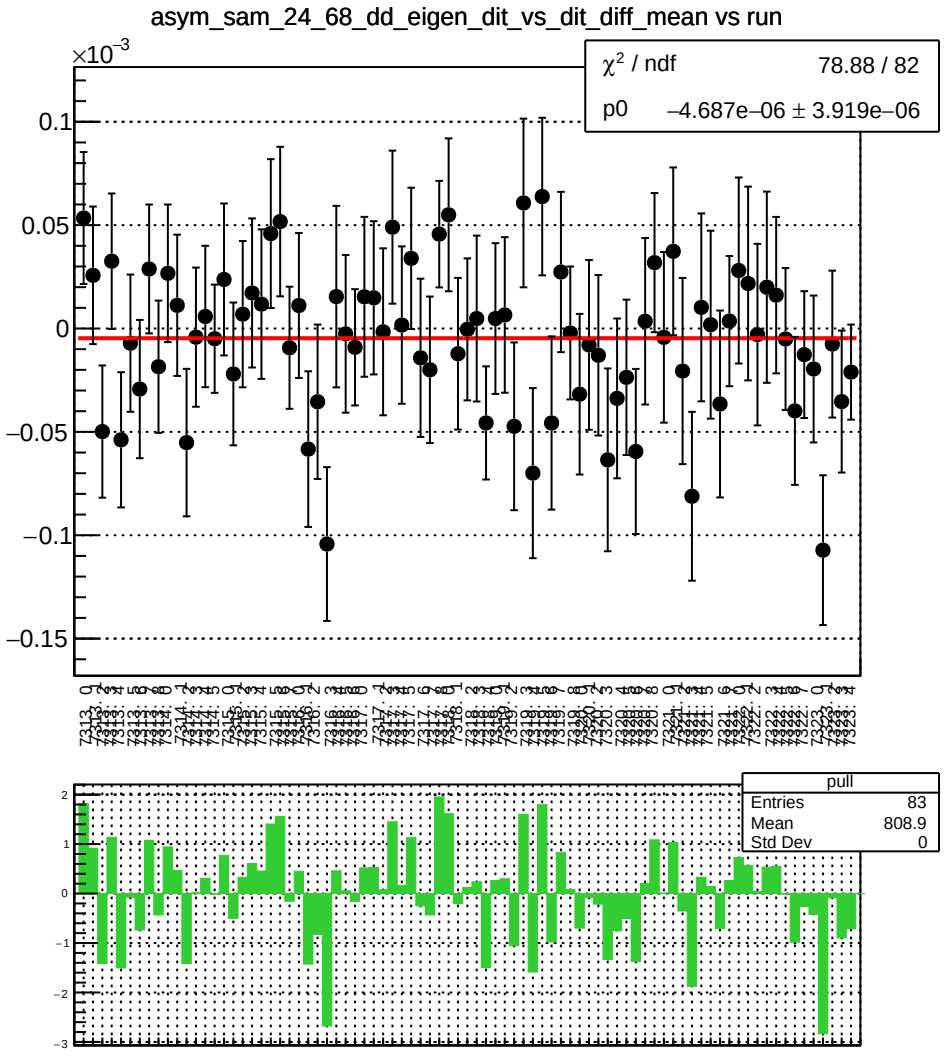


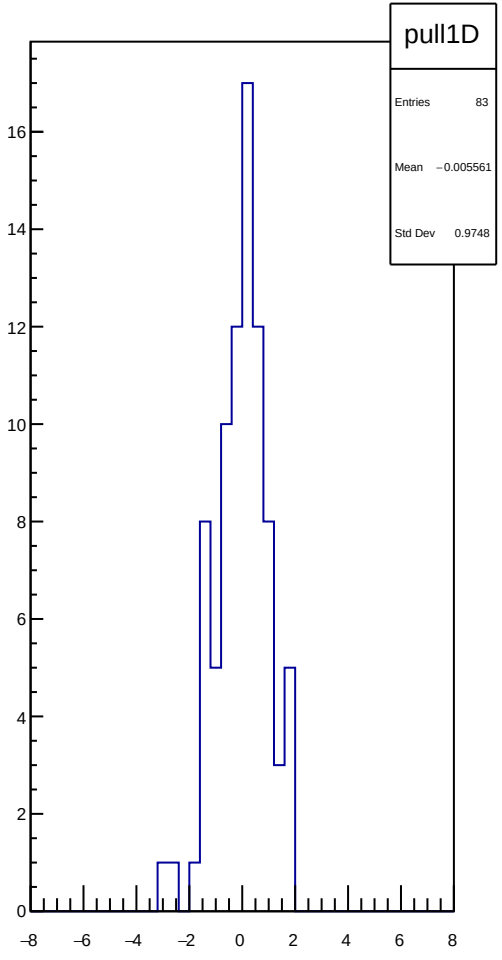


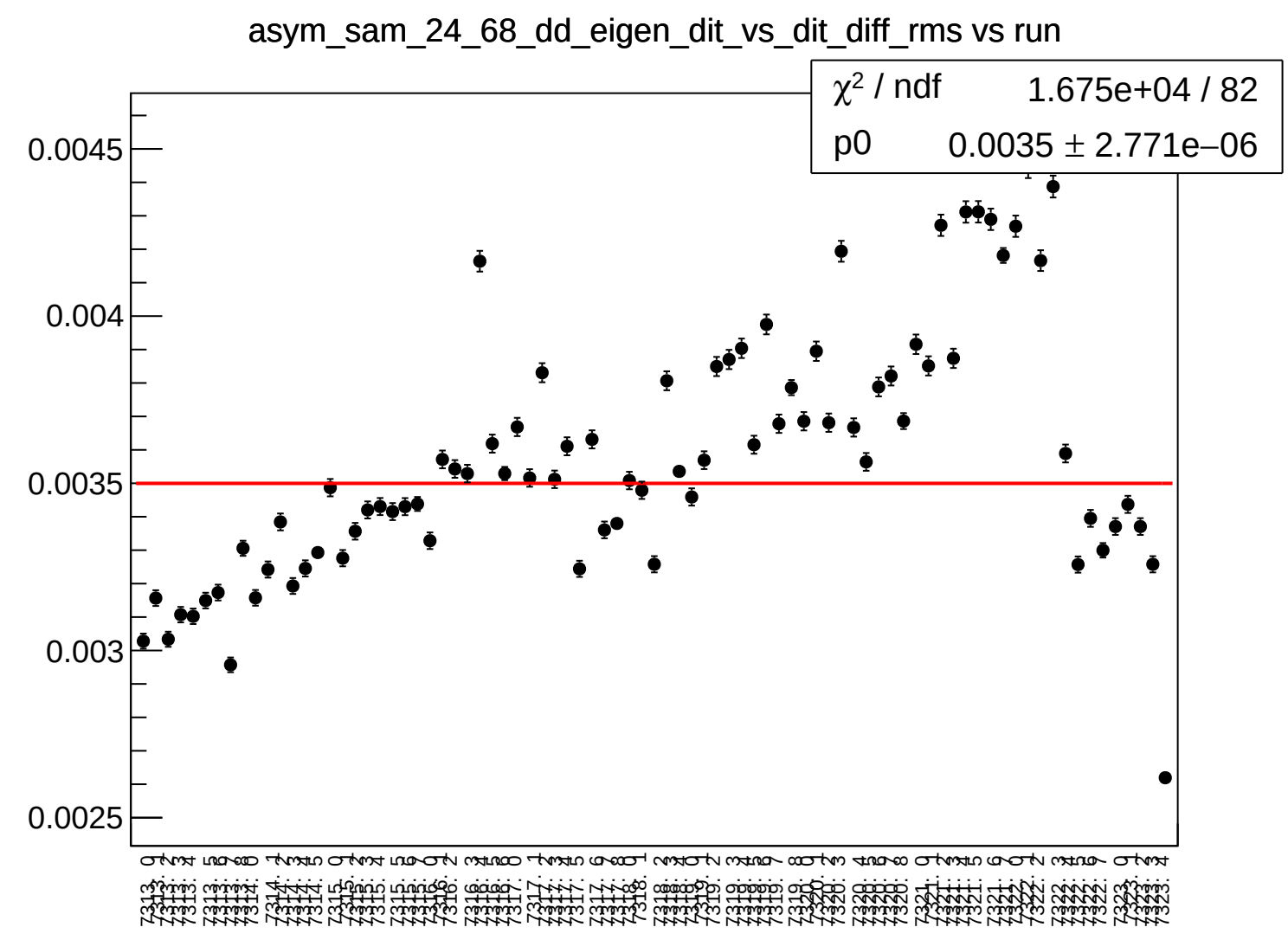

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 82
p0 39.16 ± 0.03218
100
90
80
70
60
50
40
30

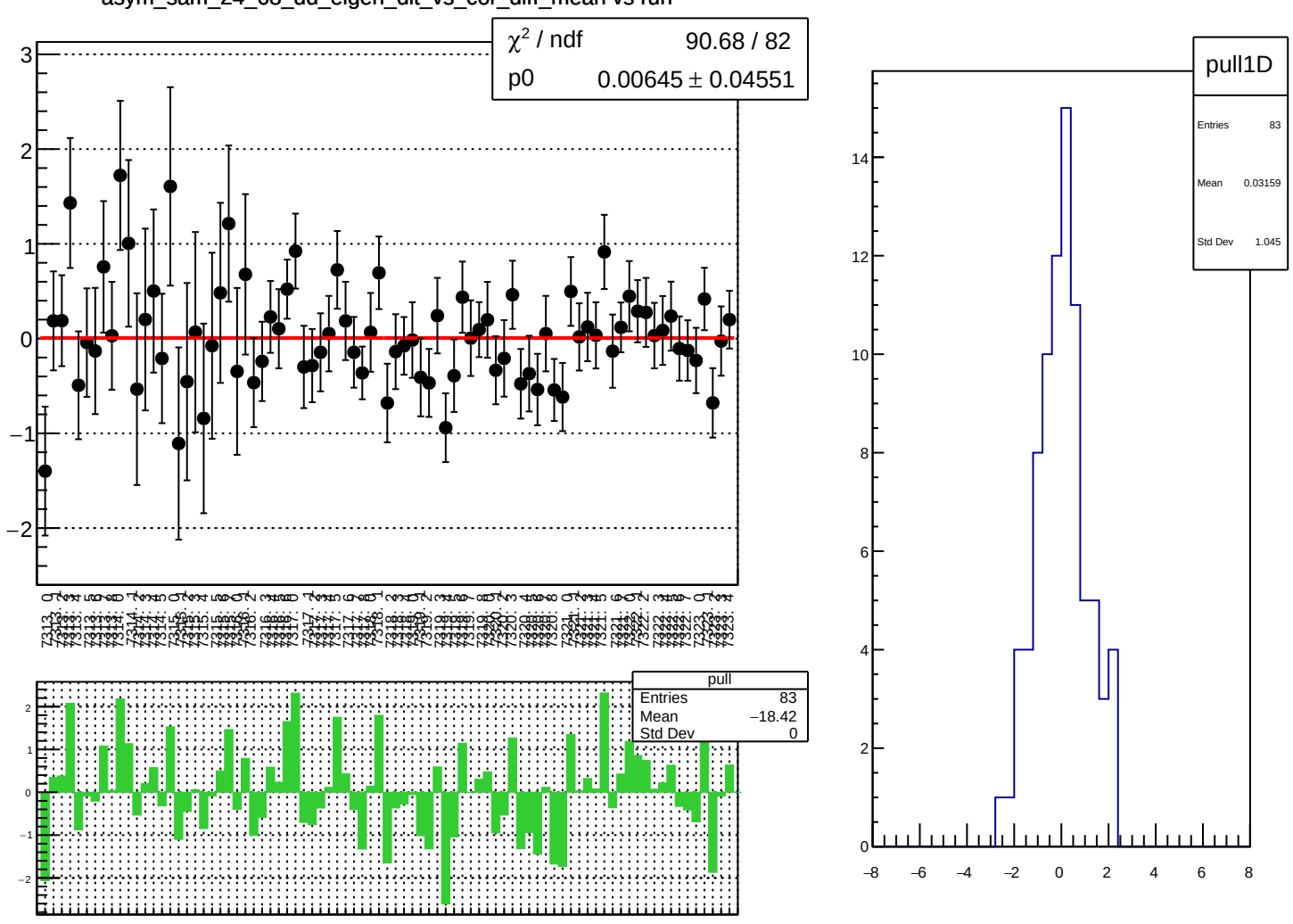

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.68 / 82
p0 0.006458 ± 0.04551
pull
Entries 83
Mean −18.42
Std Dev 0
pull1D
Entries 83
Mean 0.03159
Std Dev 1.045

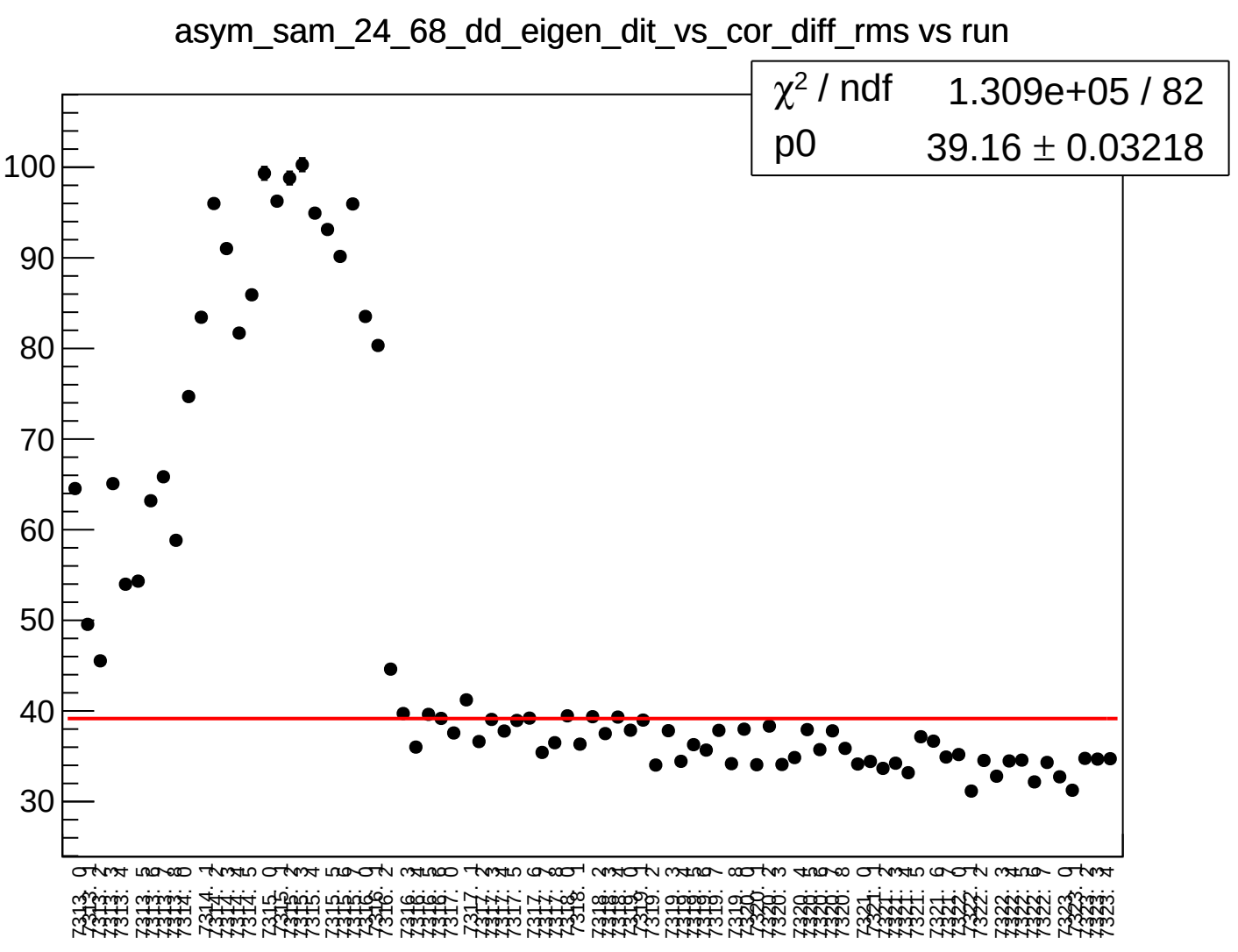

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 82
p0 39.16 ± 0.03218
100
90
80
70
60
50
40
30


asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.88 / 82
p0 −4.687e−06 ± 3.919e−06
pull
Entries 83
Mean 808.9
Std Dev 0

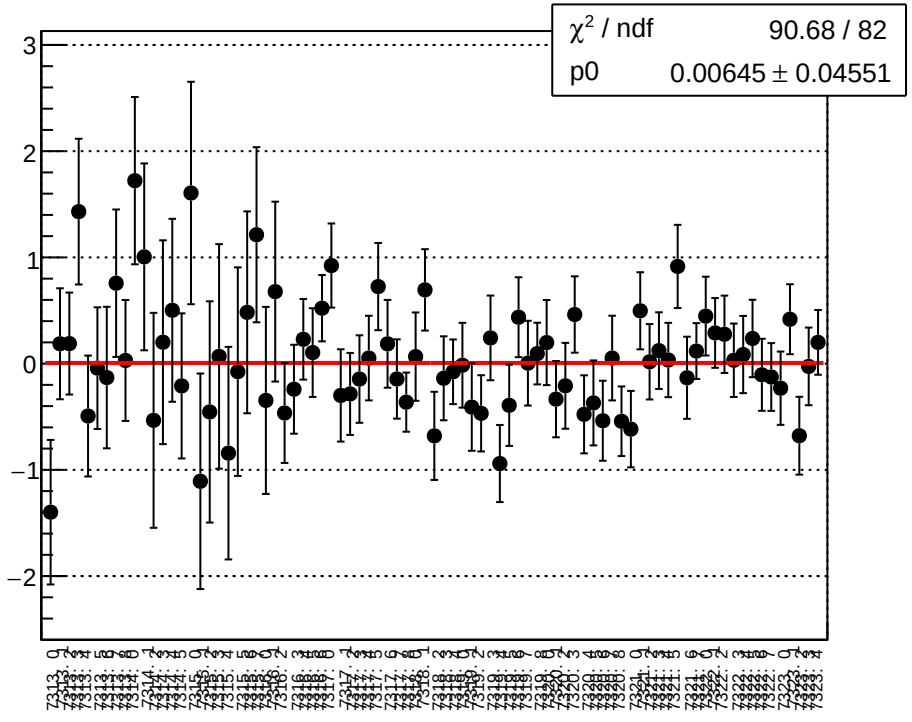

pull1D
Entries 83
Mean −0.005561
Std Dev 0.9748

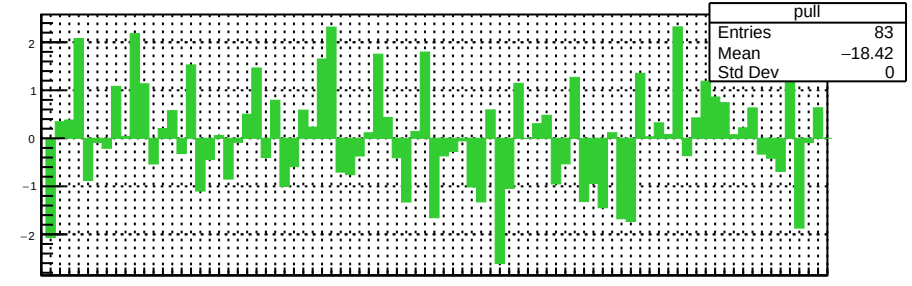

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.675e+04 / 82
p0 0.0035 ± 2.771e−06
0.0045
0.004
0.0035
0.003
0.0025

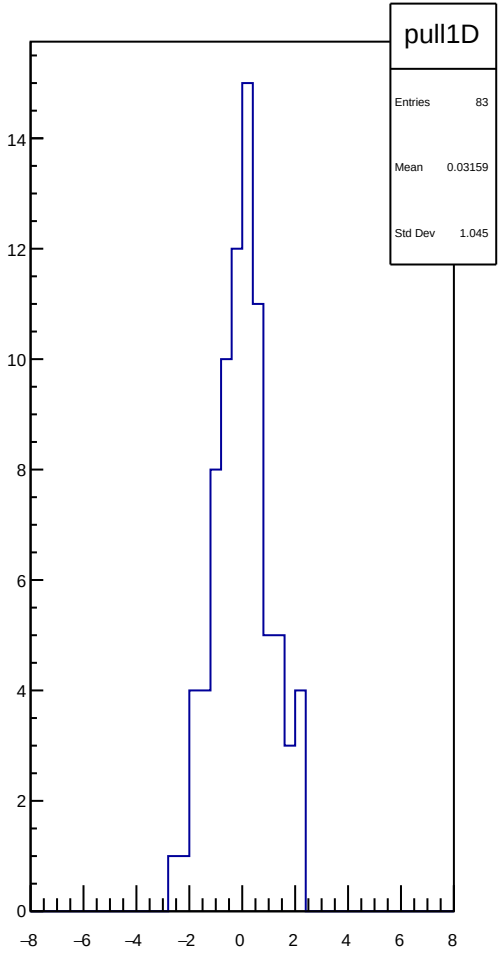

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.68 / 82
p0 0.00645 ± 0.04551
pull
Entries 83
Mean −18.42
Std Dev 0
pull1D
Entries 83
Mean 0.03159
Std Dev 1.045

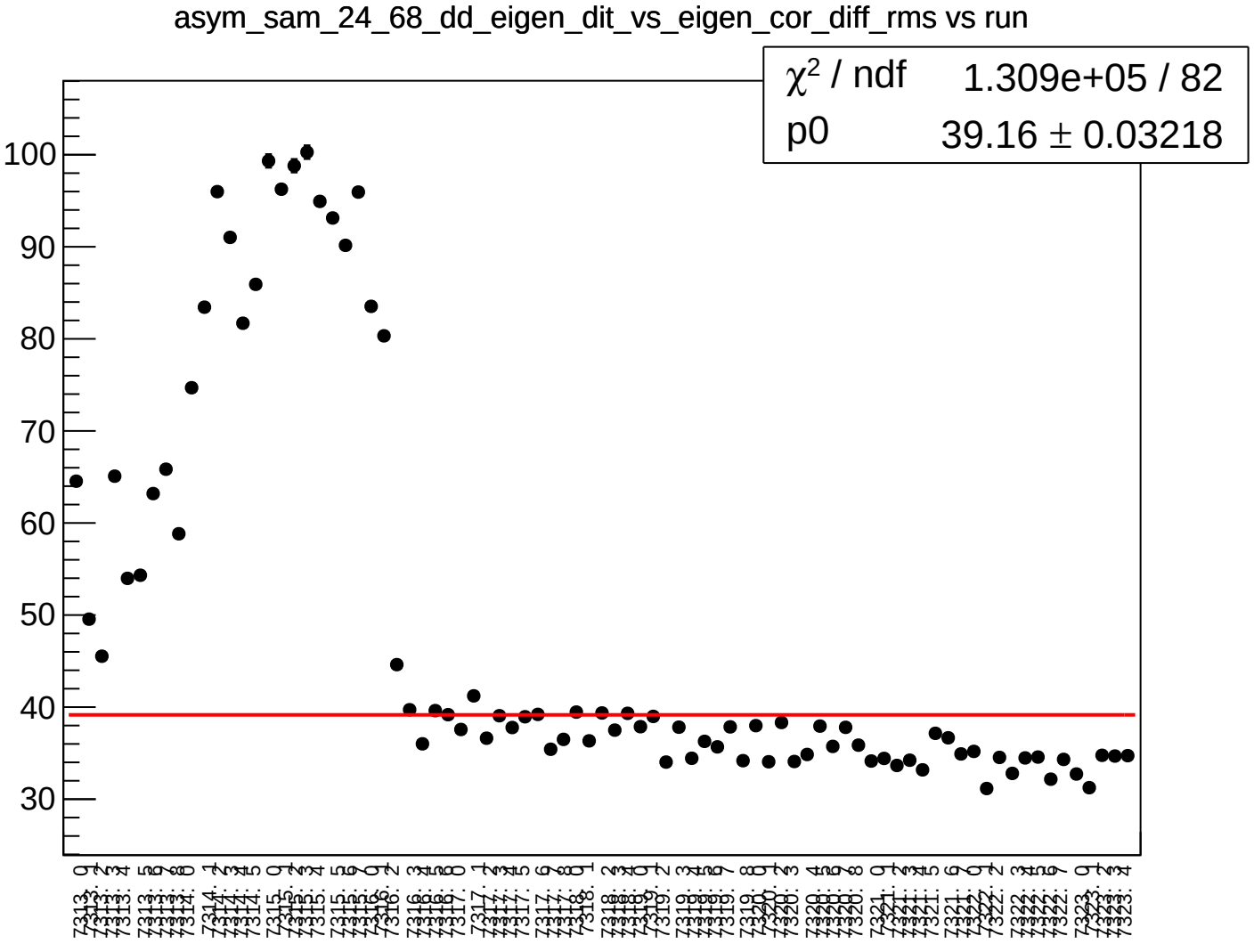

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 82
p0 39.16 ± 0.03218
100
90
80
70
60
50
40
30

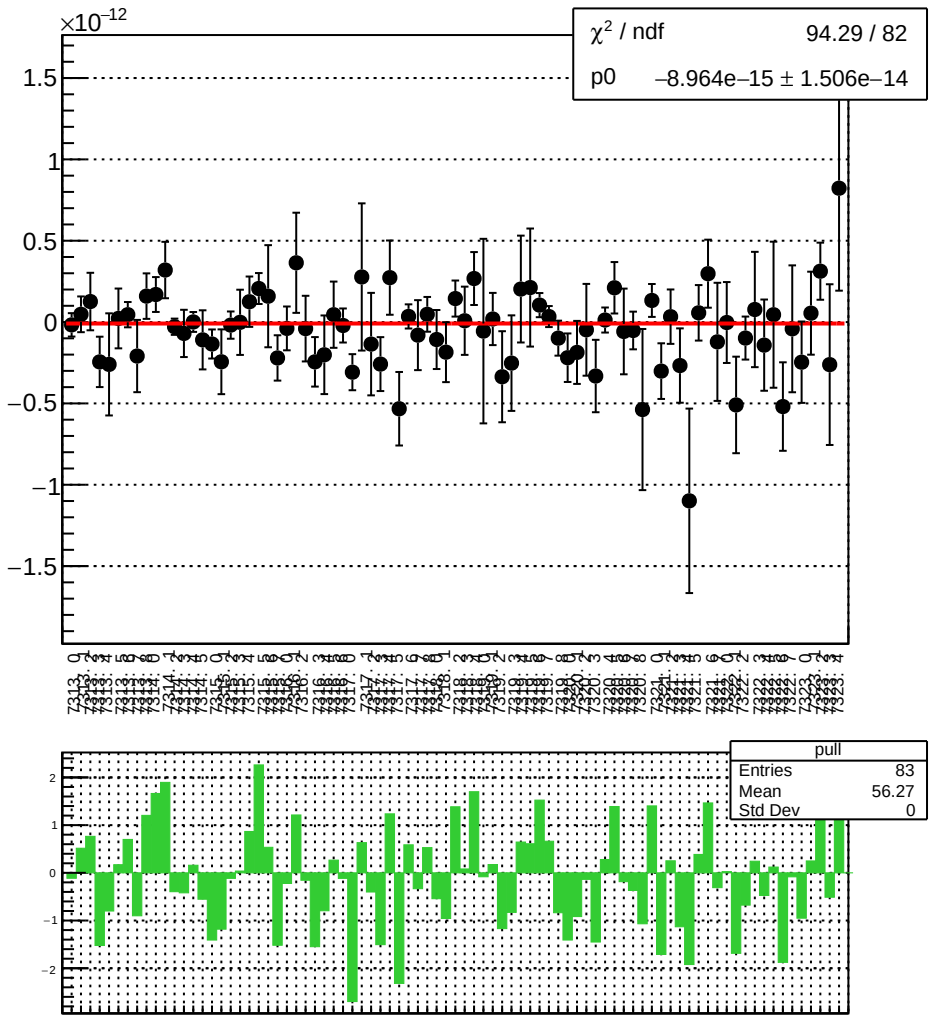
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

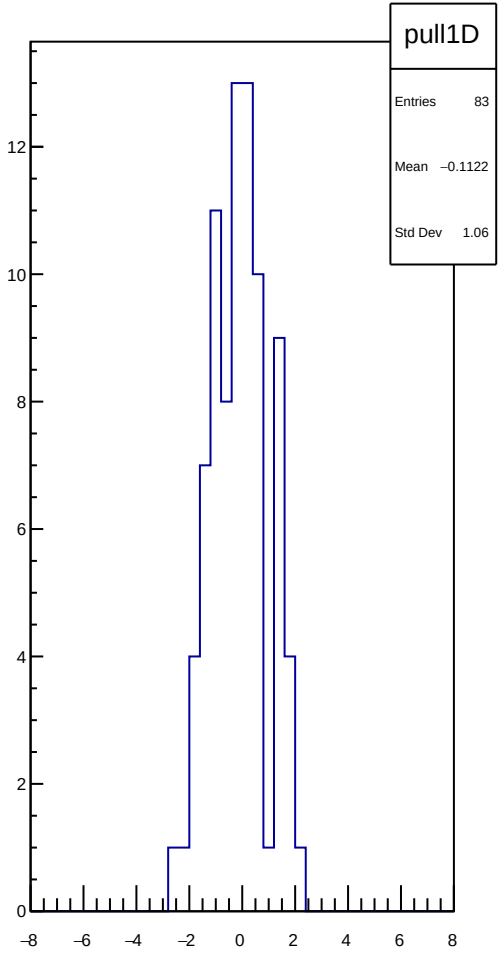


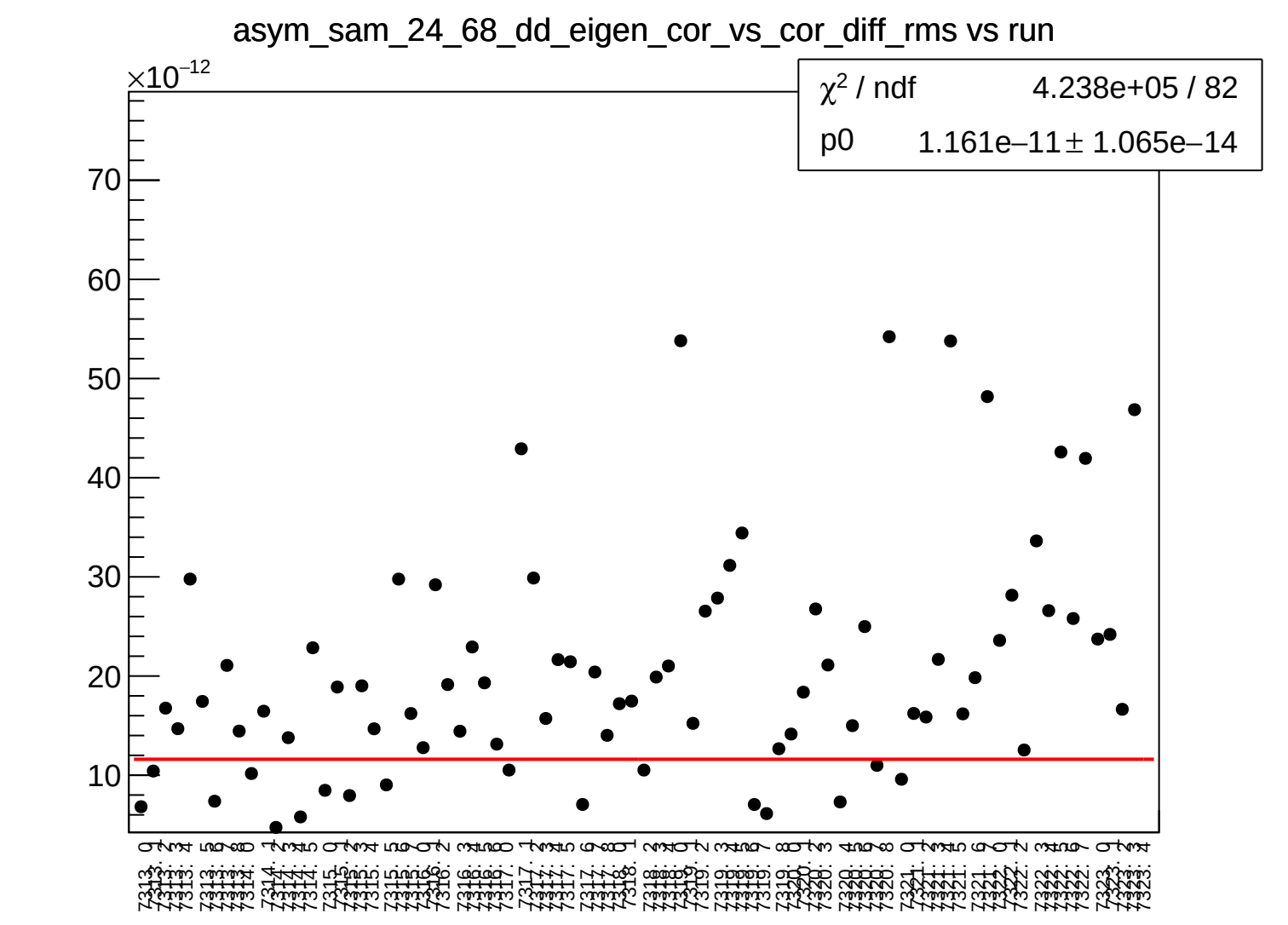


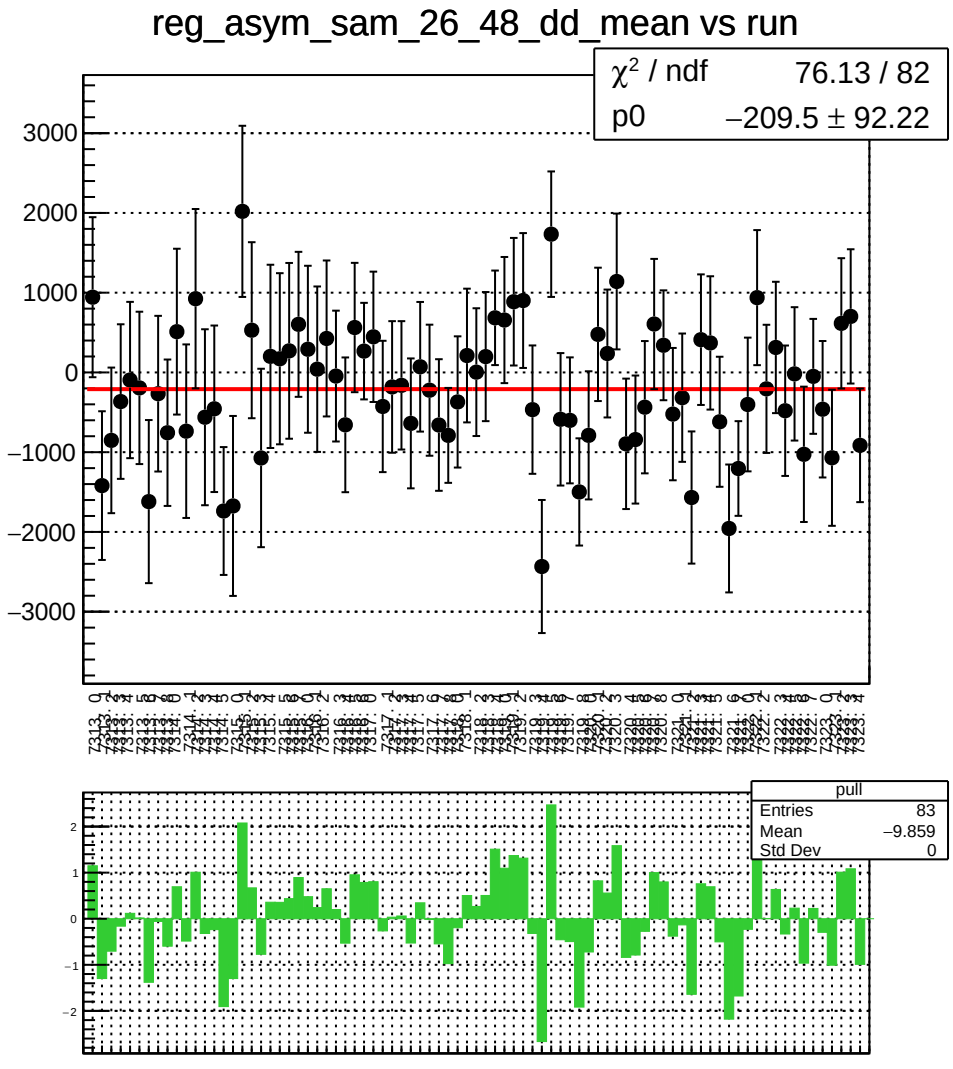


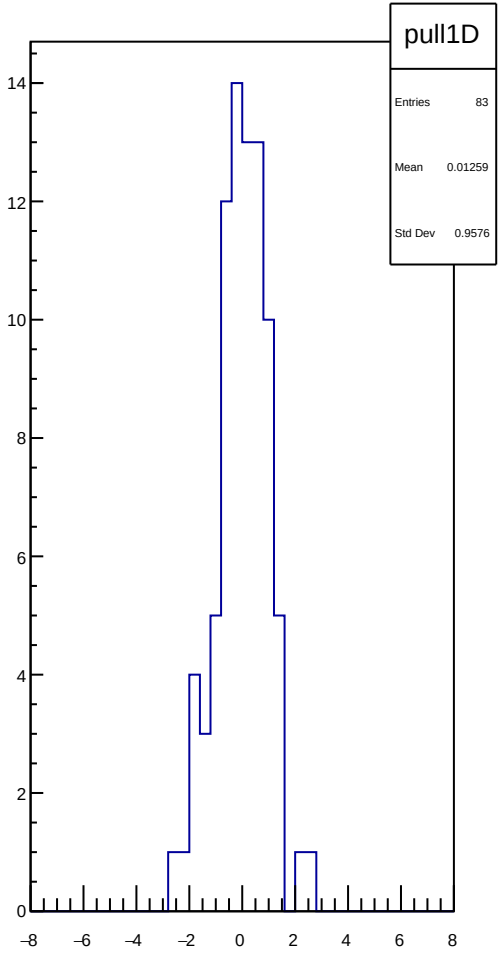

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 82
p0 39.16 ± 0.03218
100
90
80
70
60
50
40
30

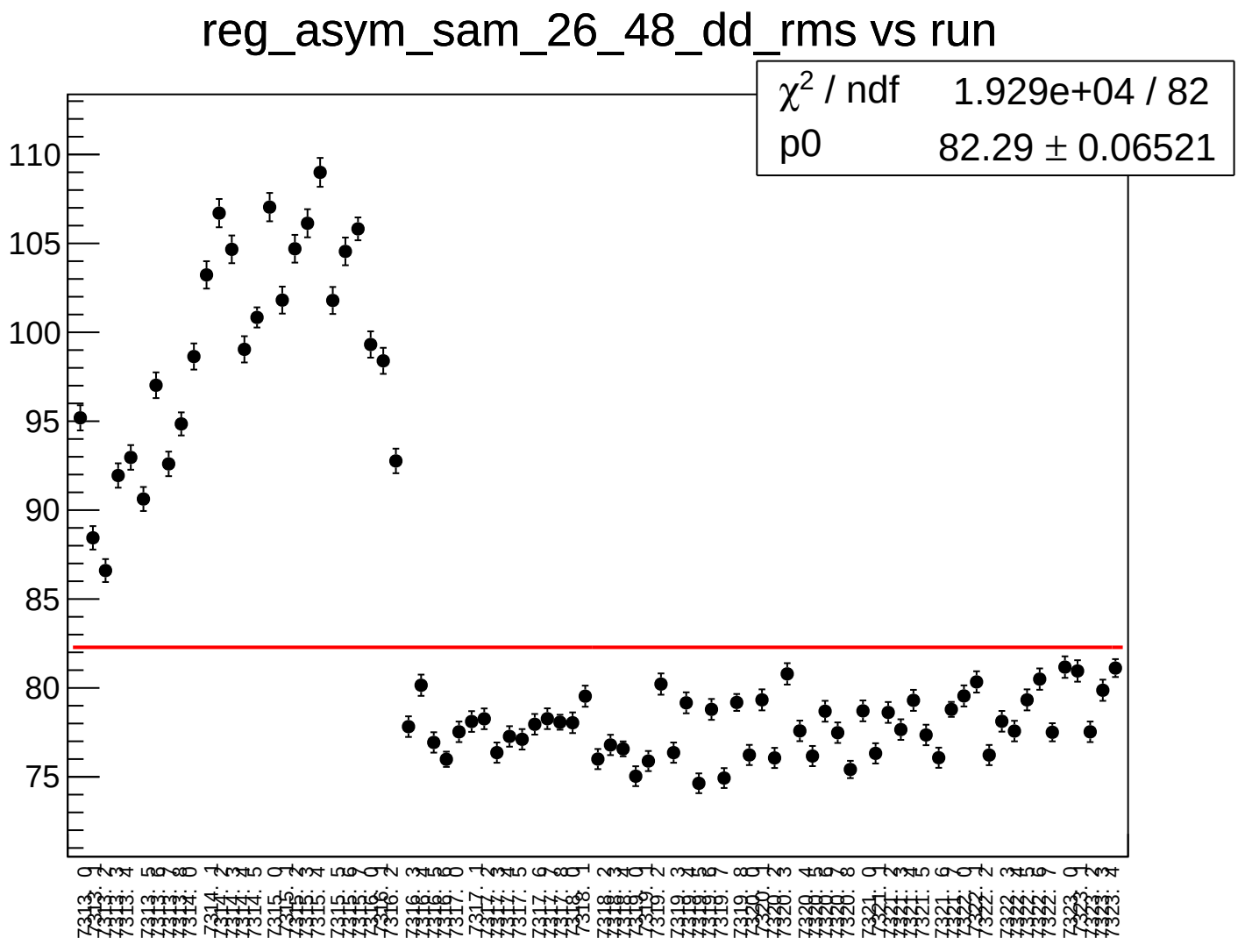

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.29 / 82
p0 −8.964e−15 ± 1.506e−14
pull
Entries 83
Mean 56.27
Std Dev 0

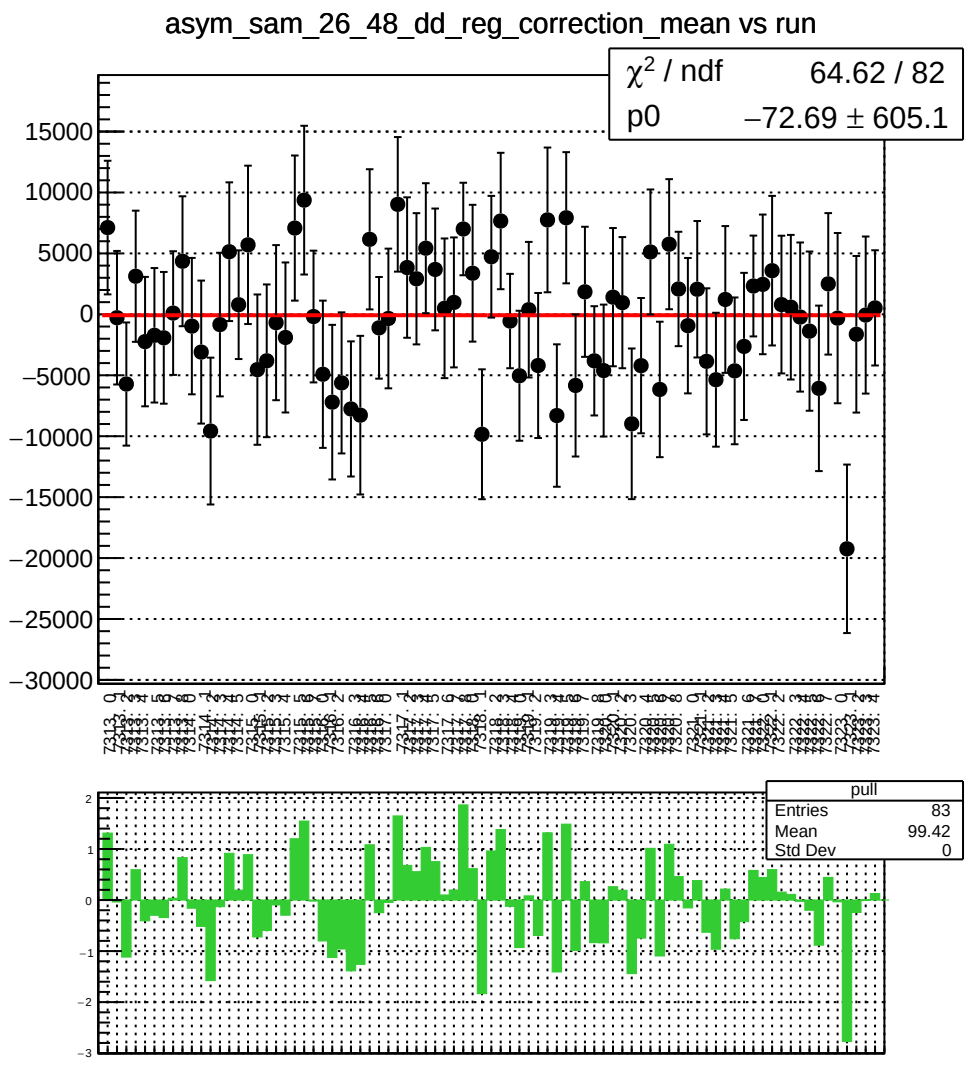

pull1D
Entries 83
Mean −0.1122
Std Dev 1.06

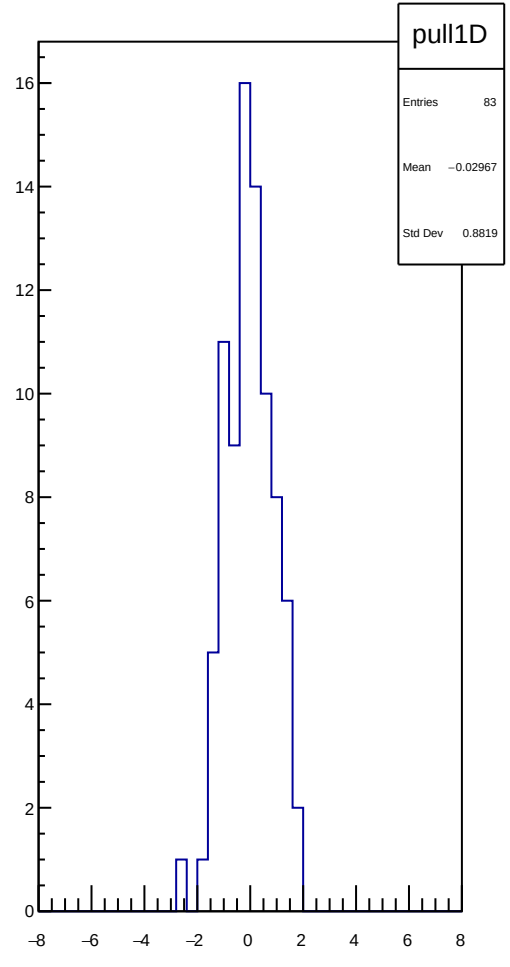

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.238e+05 / 82
p0 1.161e−11 ± 1.065e−14
70
60
50
40
30
20
10

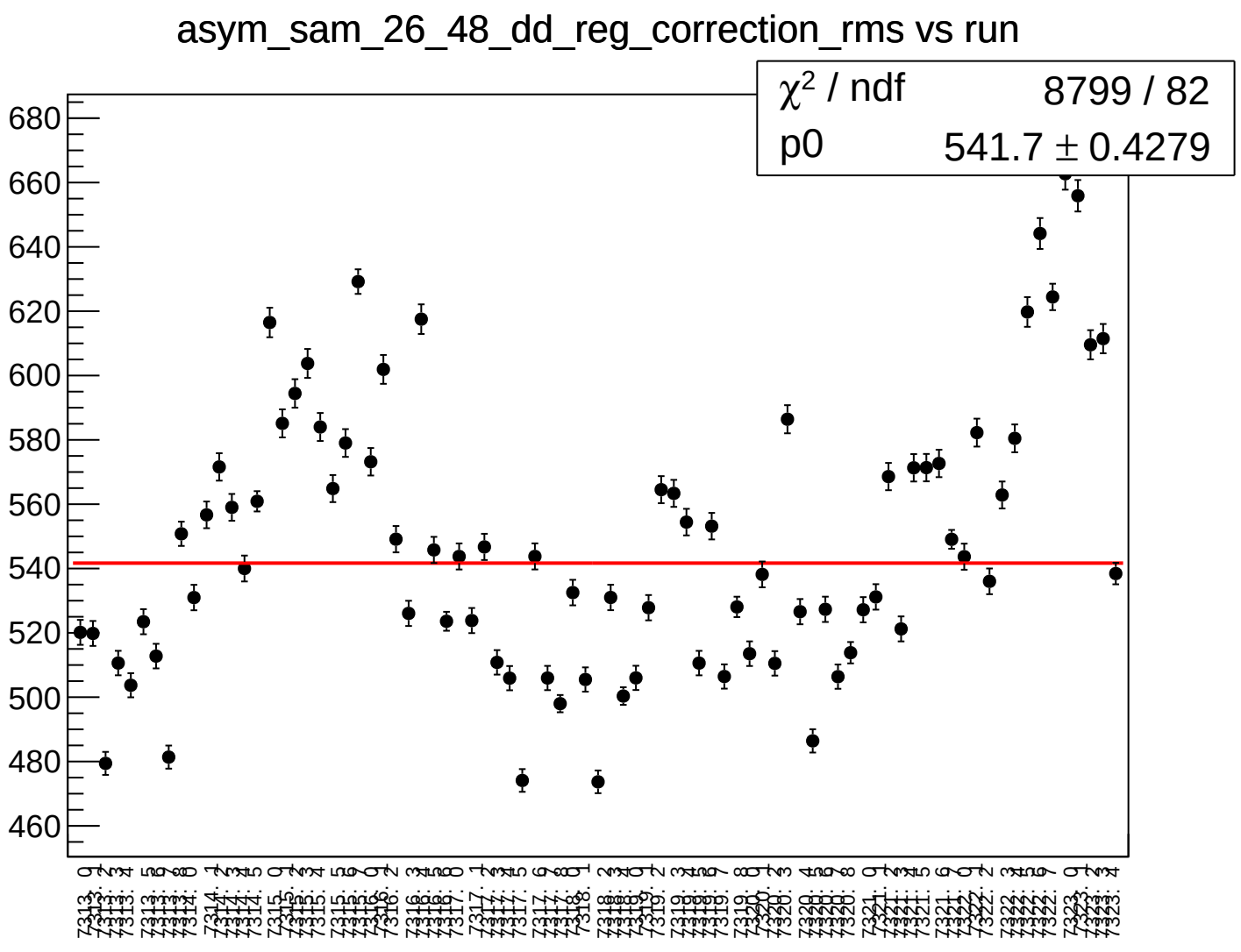

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.13 / 82
p0 −209.5 ± 92.22
pull
Entries 83
Mean −9.859
Std Dev 0

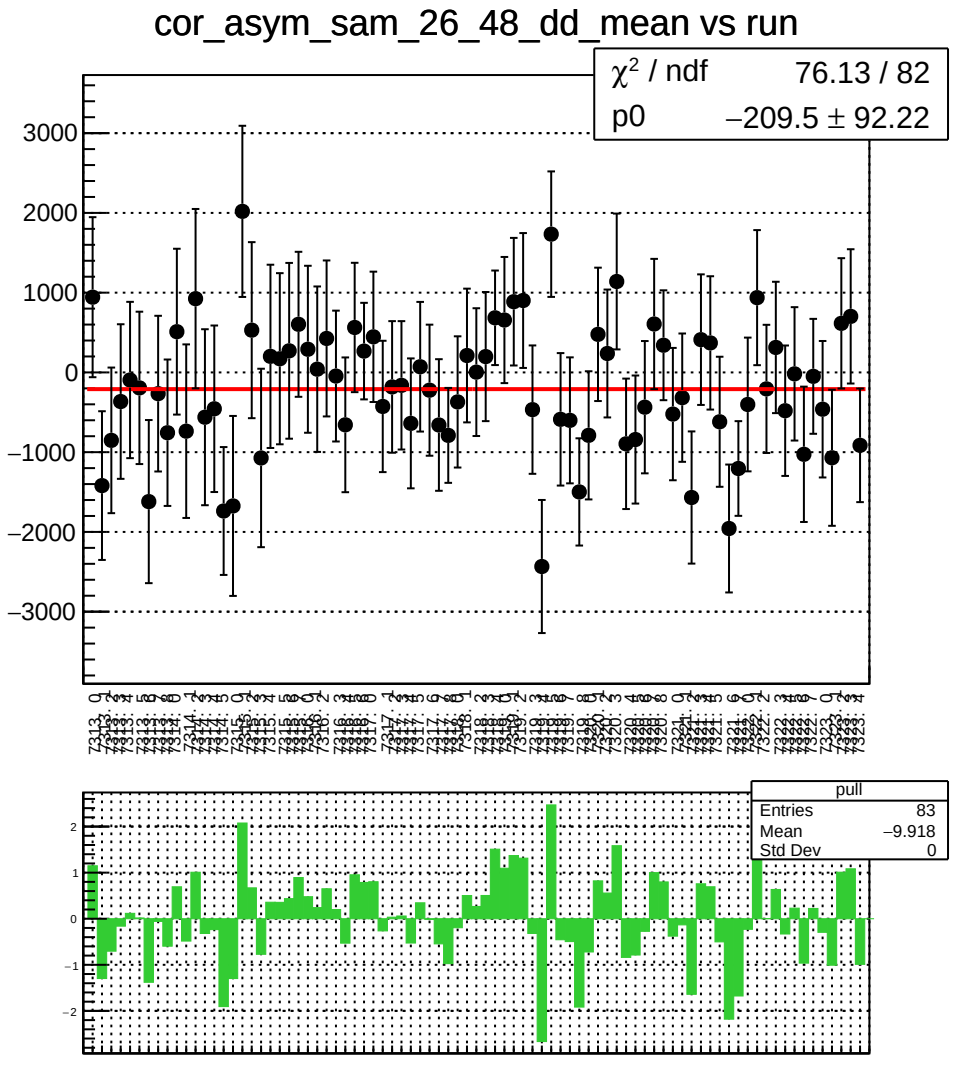

pull1D
Entries 83
Mean 0.01259
Std Dev 0.9576

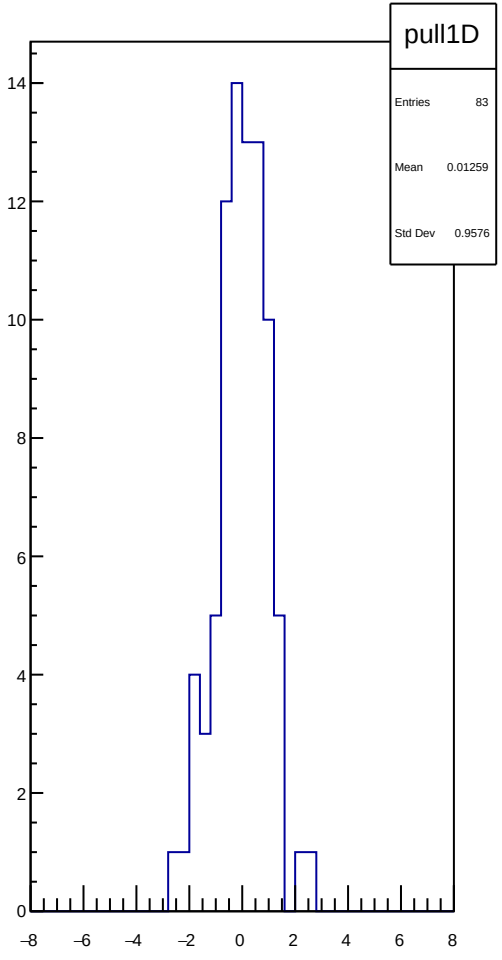

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.929e+04 / 82
p0 82.29 ± 0.06521
110
105
100
95
90
85
80
75

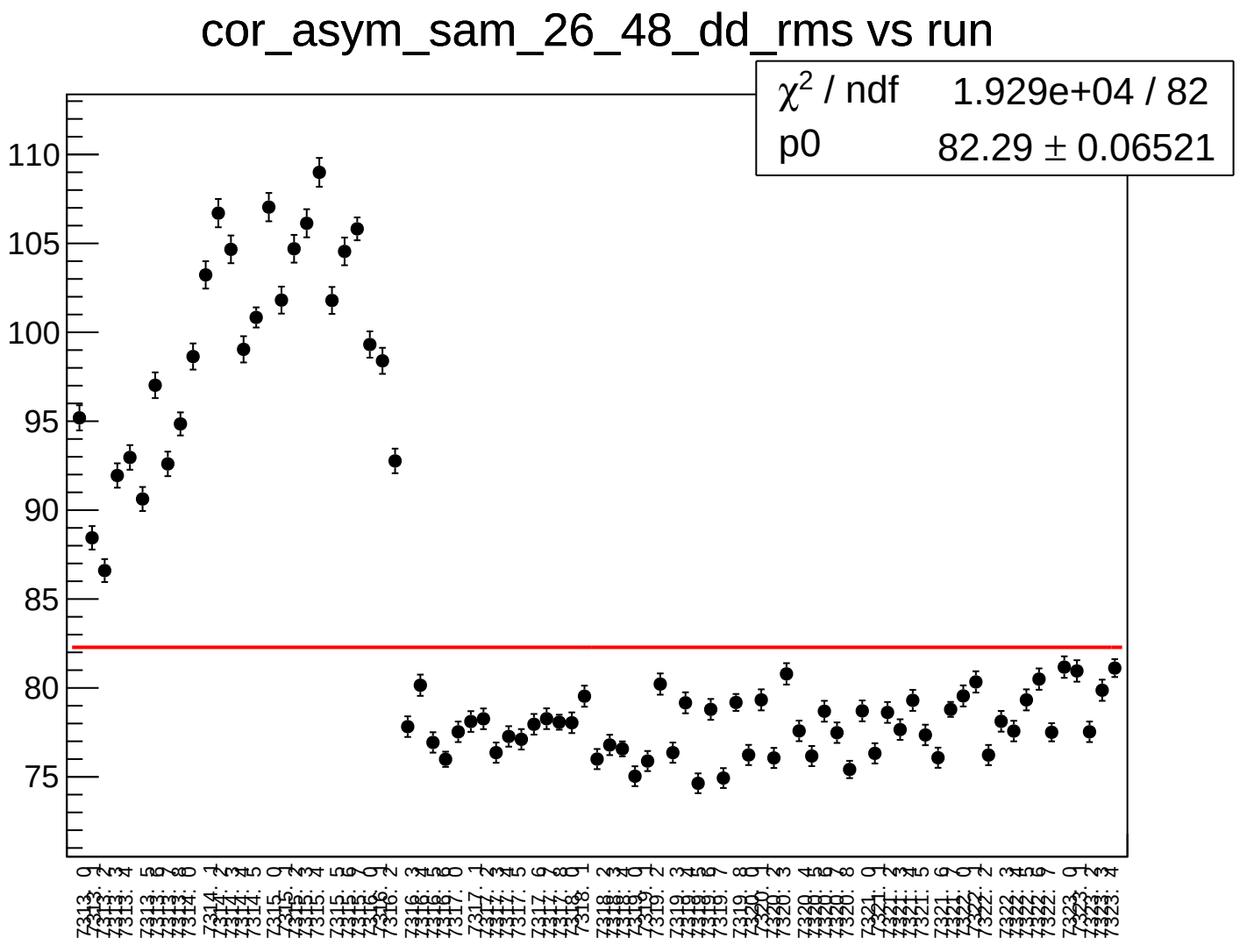

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 64.62 / 82
p0 −72.69 ± 605.1
pull
Entries 83
Mean 99.42
Std Dev 0

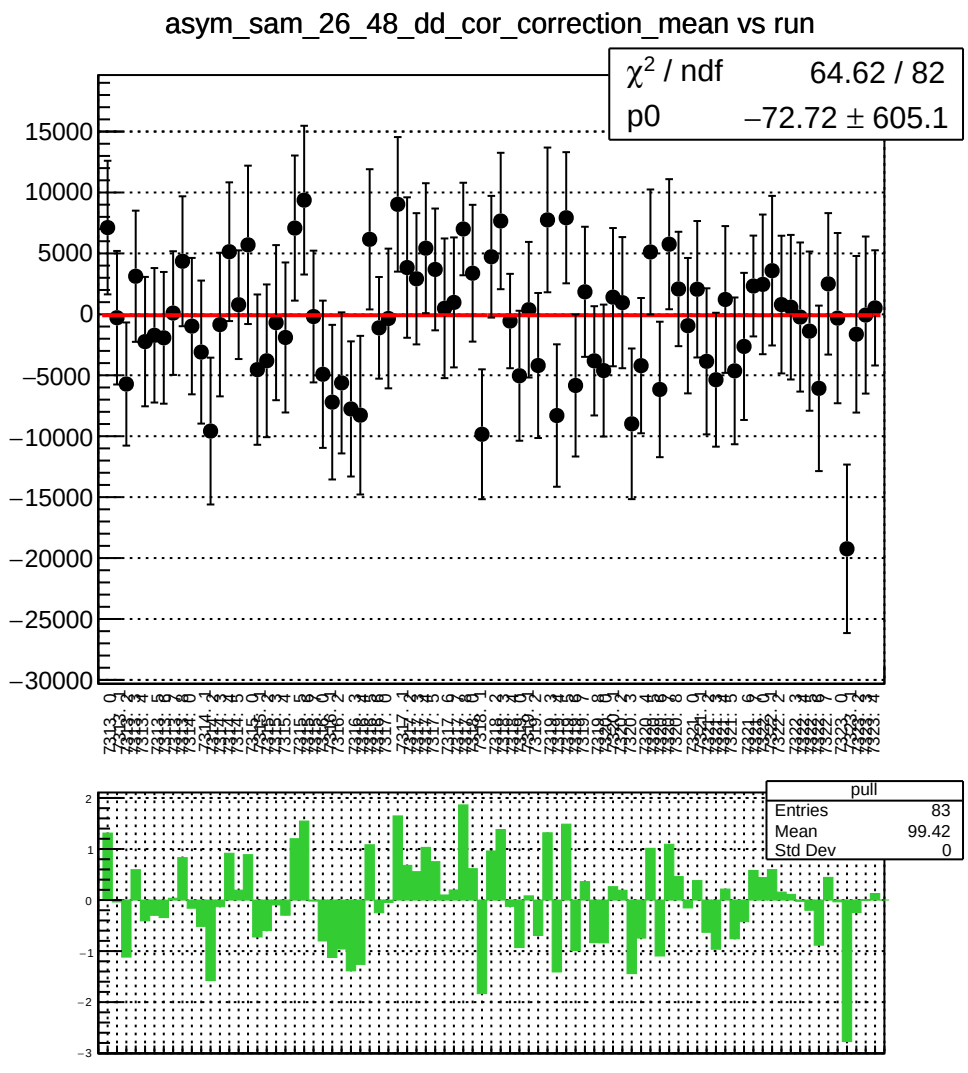

pull1D
Entries 83
Mean −0.02967
Std Dev 0.8819

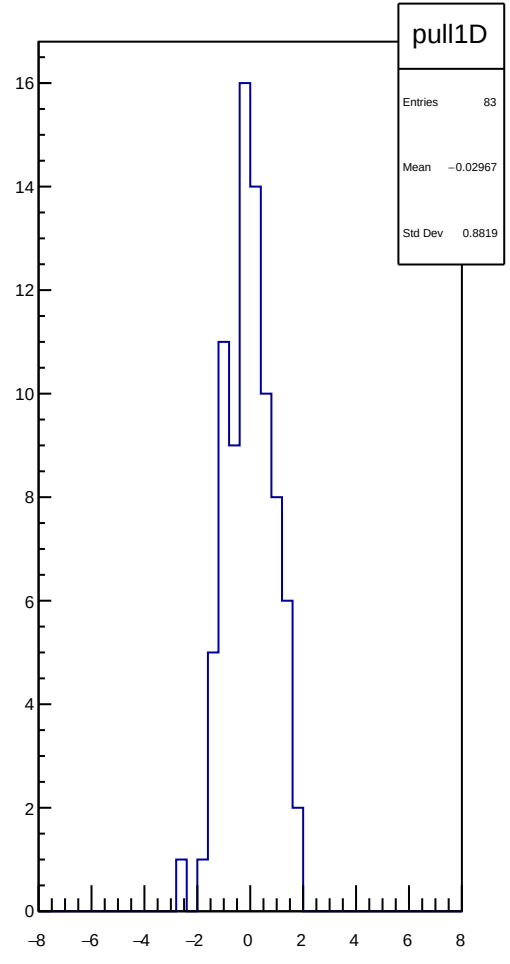

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 8799 / 82
p0 541.7 ± 0.4279
680
660
640
620
600
580
560
540
520
500
480
460

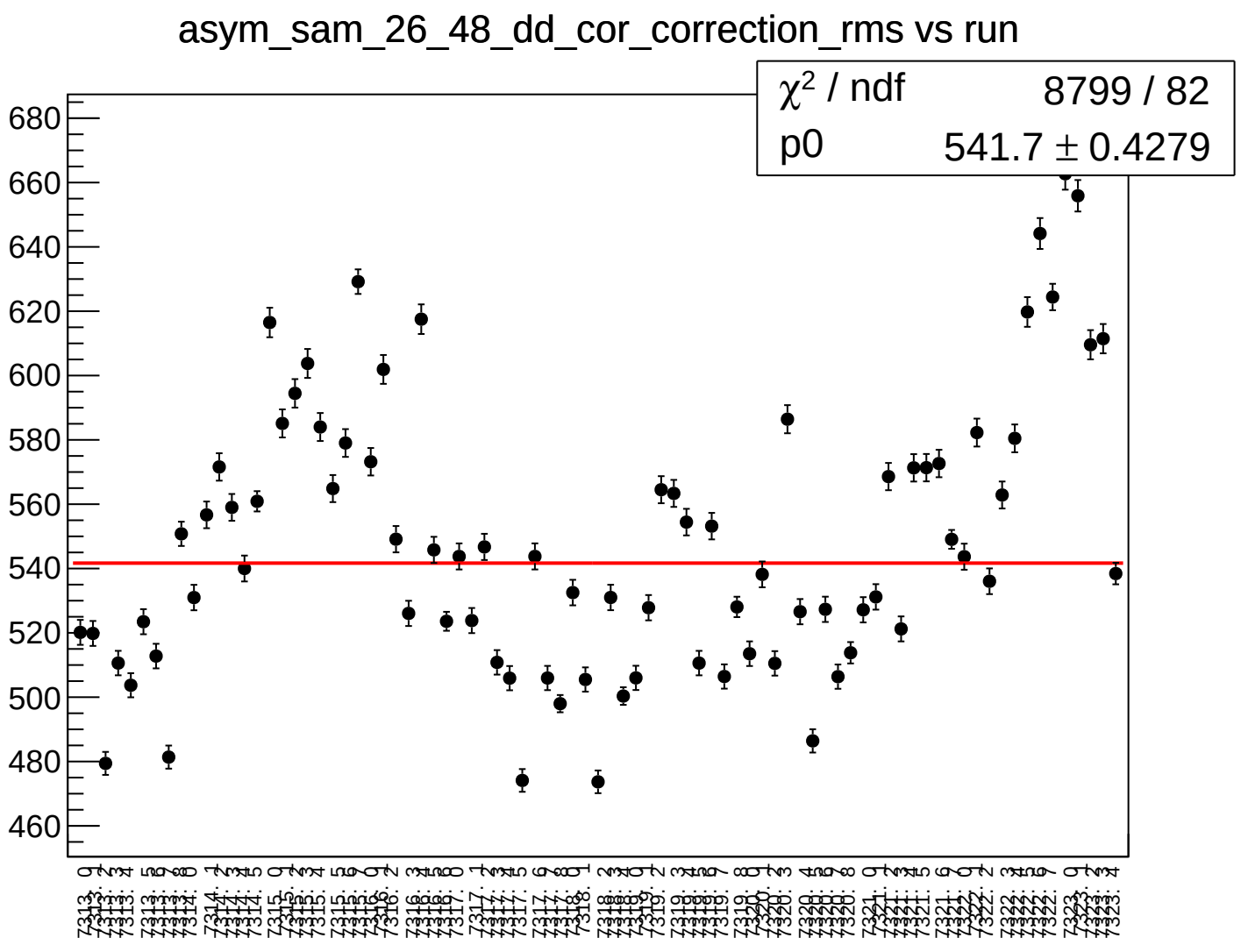

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.13 / 82
p0 −209.5 ± 92.22
pull
Entries 83
Mean −9.918
Std Dev 0

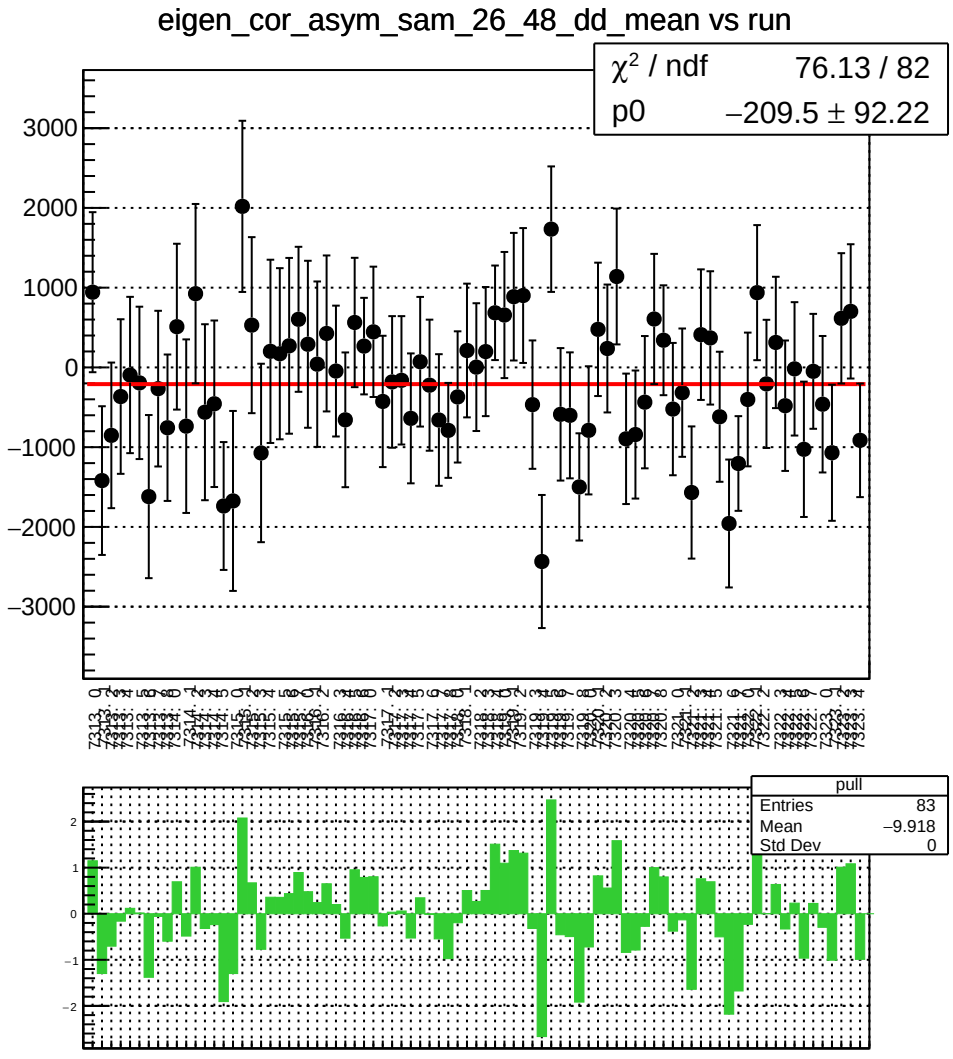

pull1D
Entries 83
Mean 0.01259
Std Dev 0.9576

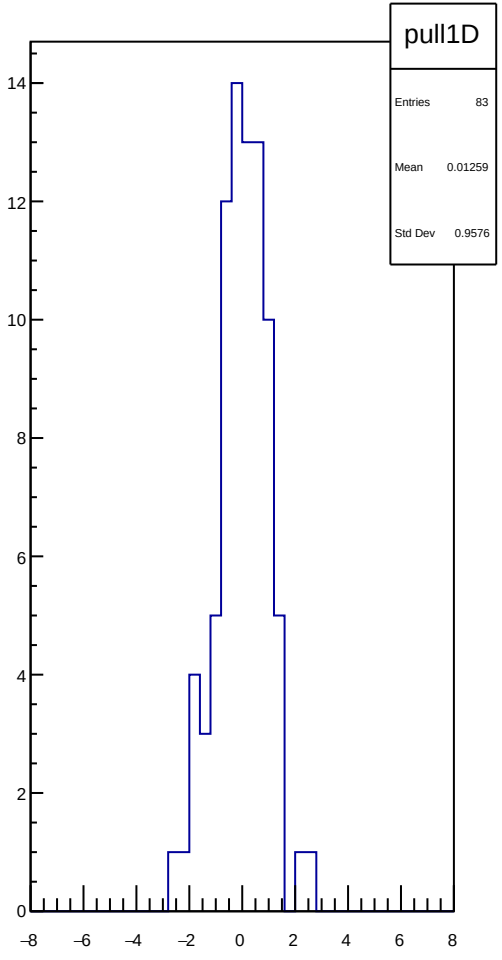

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.929e+04 / 82
p0 82.29 ± 0.06521
110
105
100
95
90
85
80
75

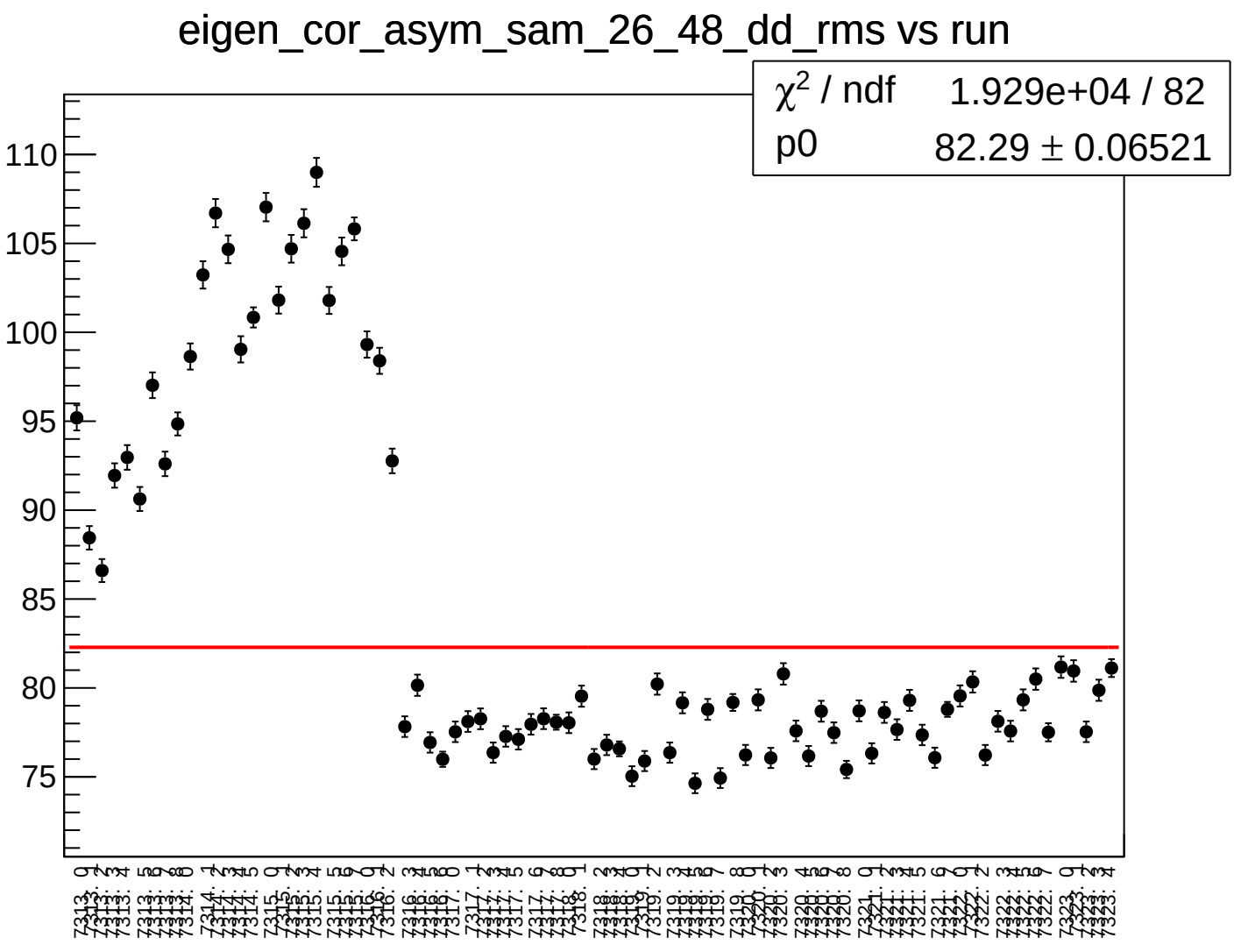

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 64.62 / 82
p0 −72.72 ± 605.1
pull
Entries 83
Mean 99.42
Std Dev 0

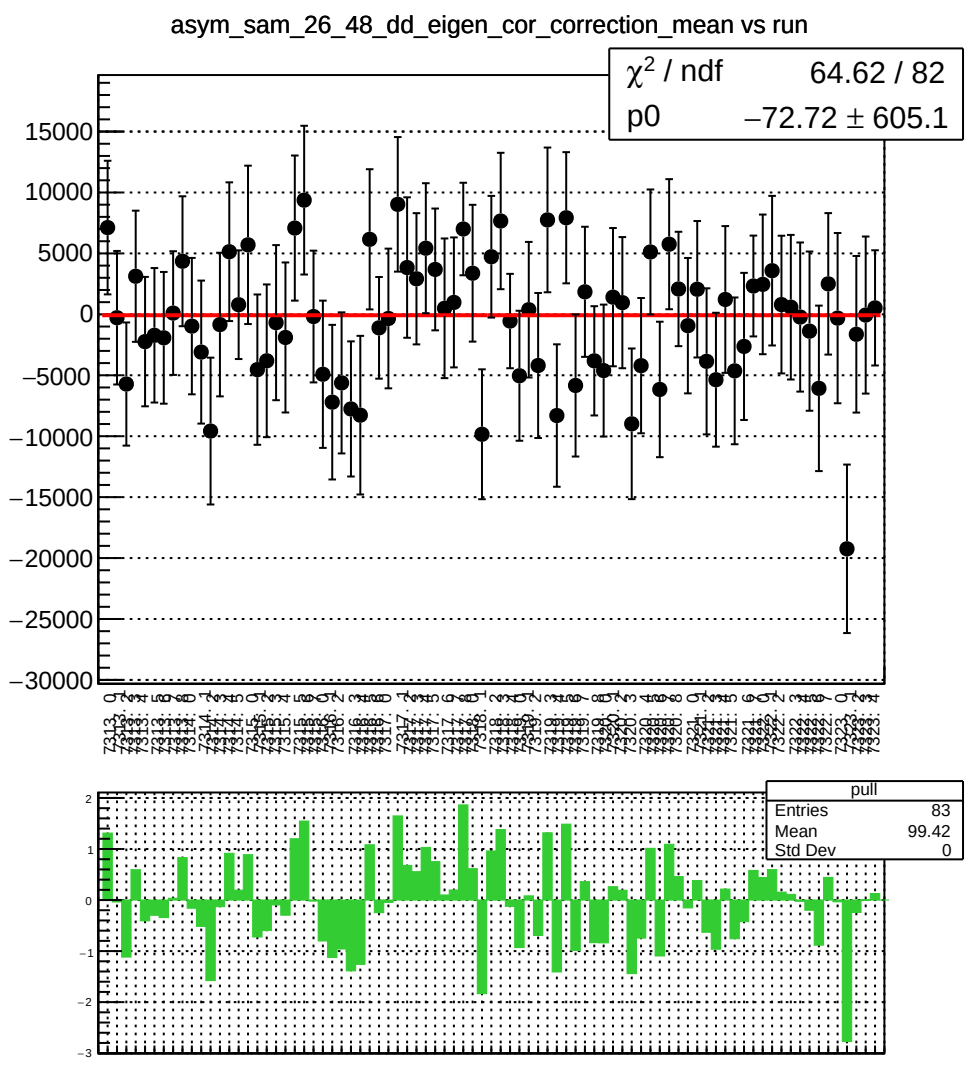

pull1D
Entries 83
Mean −0.02967
Std Dev 0.8819

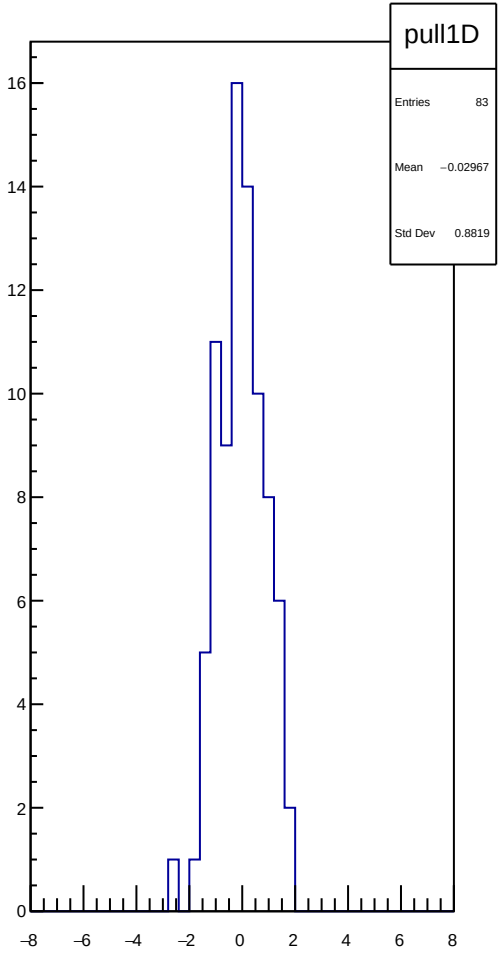

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 8799 / 82
p0 541.7 ± 0.4279
680
660
640
620
600
580
560
540
520
500
480
460

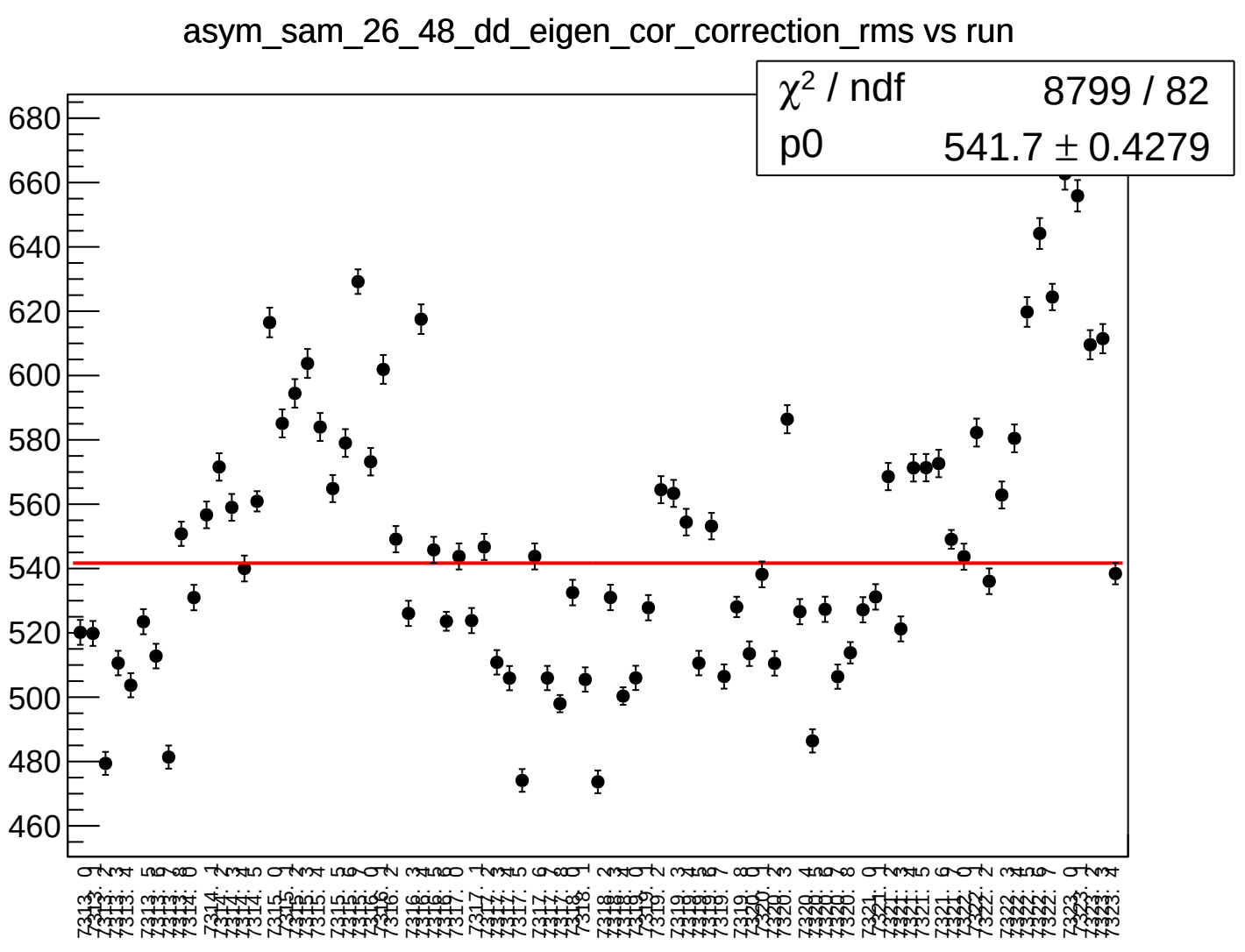

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.13 / 82
p0 −209.5 ± 92.22
pull
Entries 83
Mean −9.918
Std Dev 0

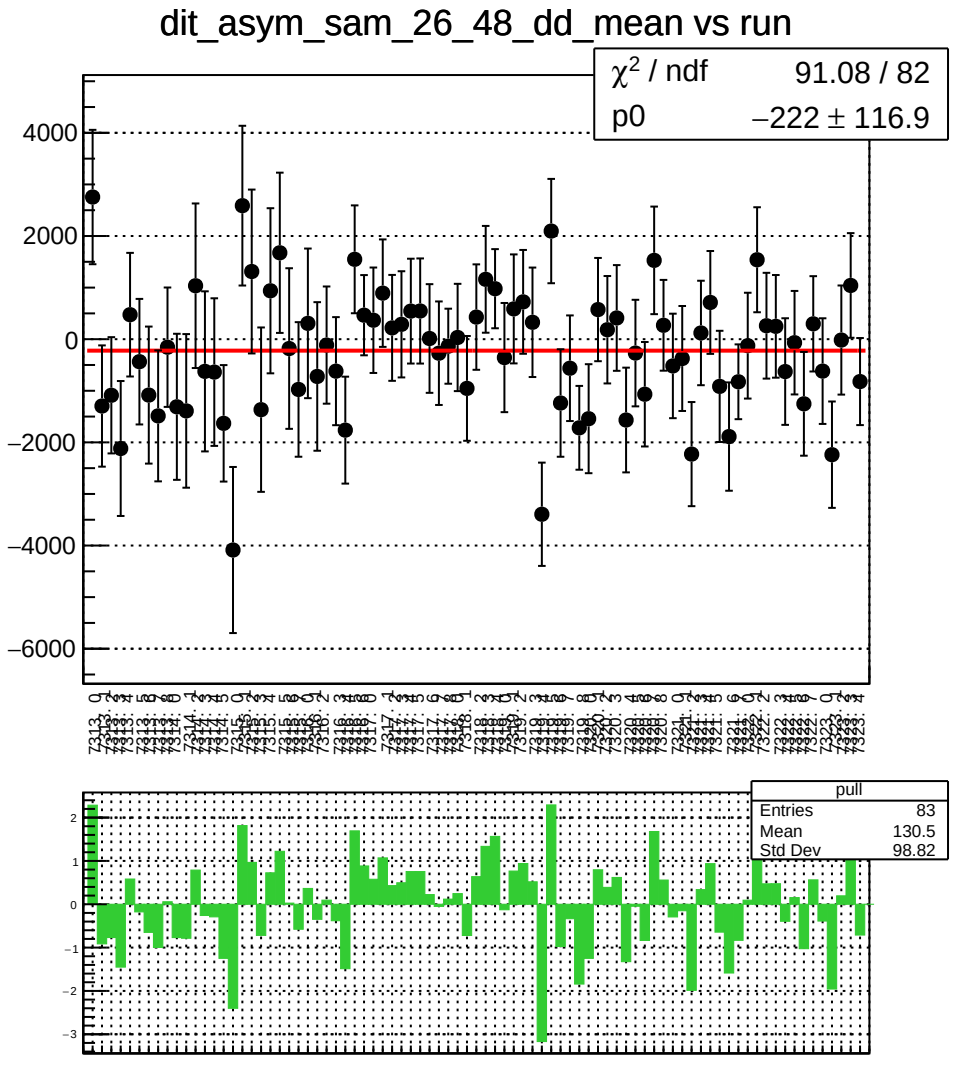

pull1D
Entries 83
Mean 0.01259
Std Dev 0.9576

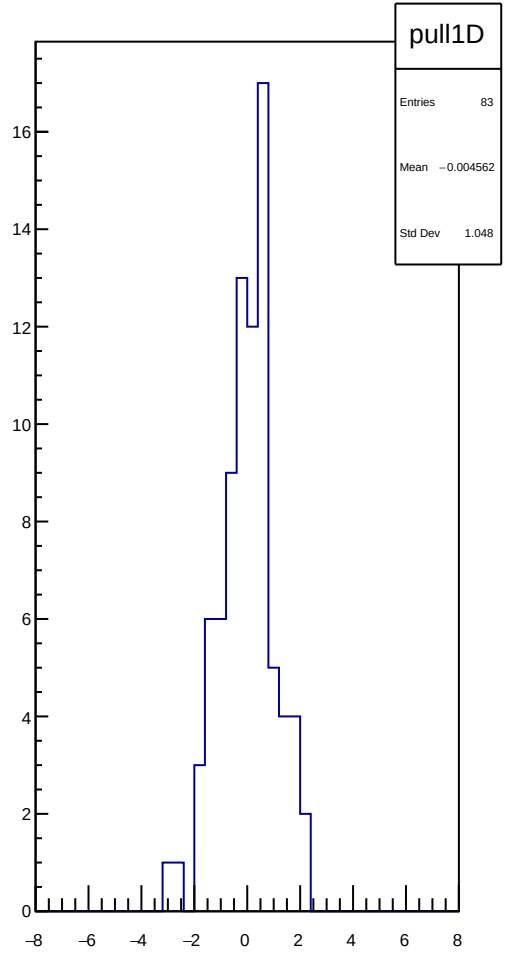

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.929e+04 / 82
p0 82.29 ± 0.06521
110
105
100
95
90
85
80
75

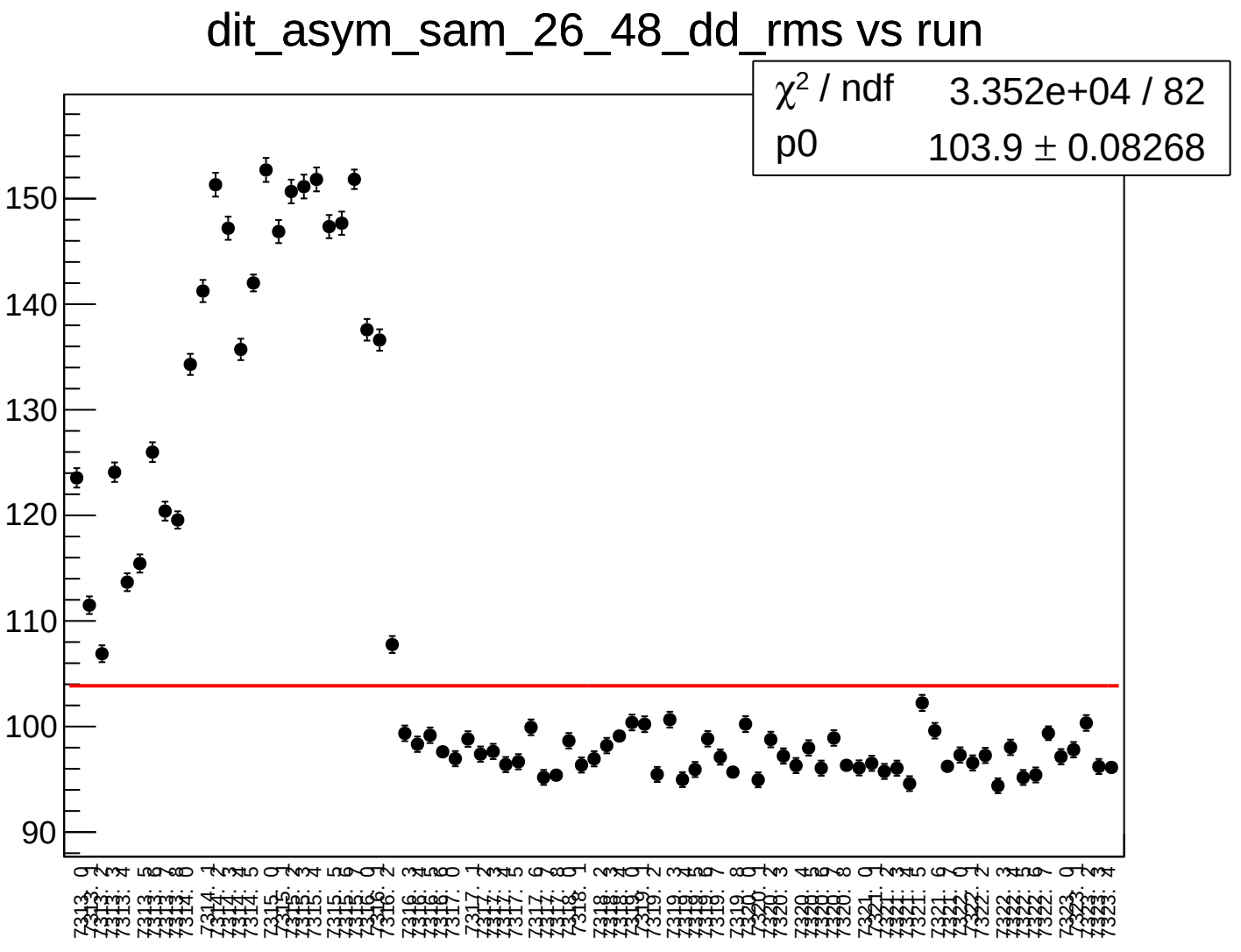

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.62 / 82
p0 −72.72 ± 605.1
pull
Entries 83
Mean 99.42
Std Dev 0

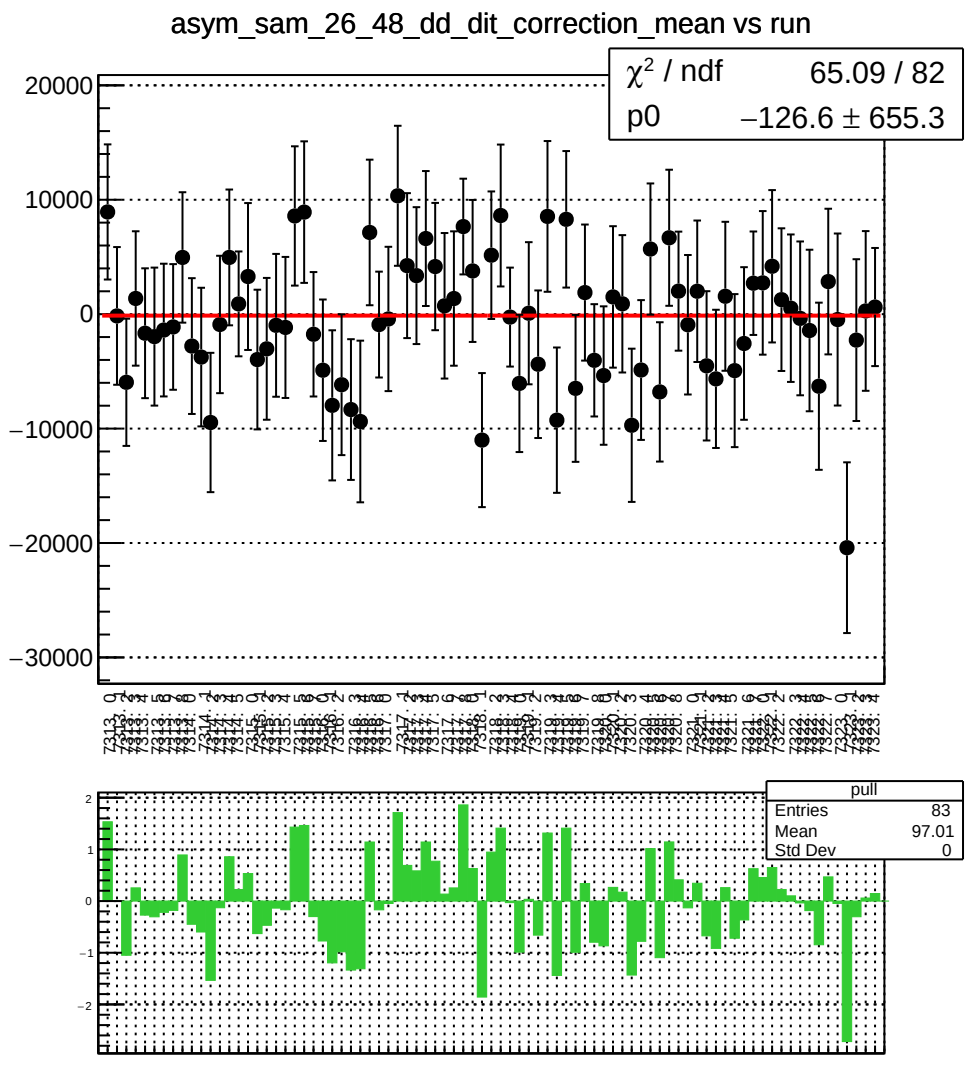

pull1D
Entries 83
Mean −0.02967
Std Dev 0.8819

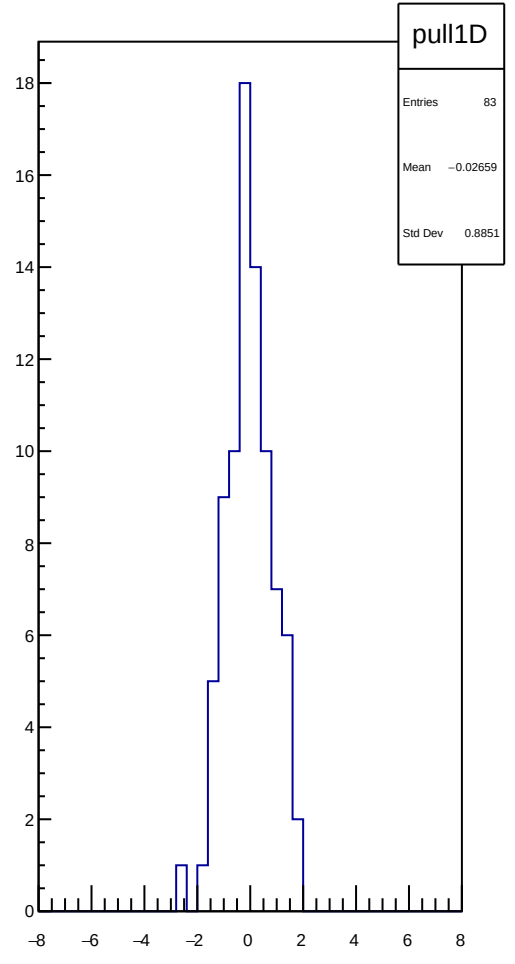

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8799 / 82
p0 541.7 ± 0.4279
680
660
640
620
600
580
560
540
520
500
480
460

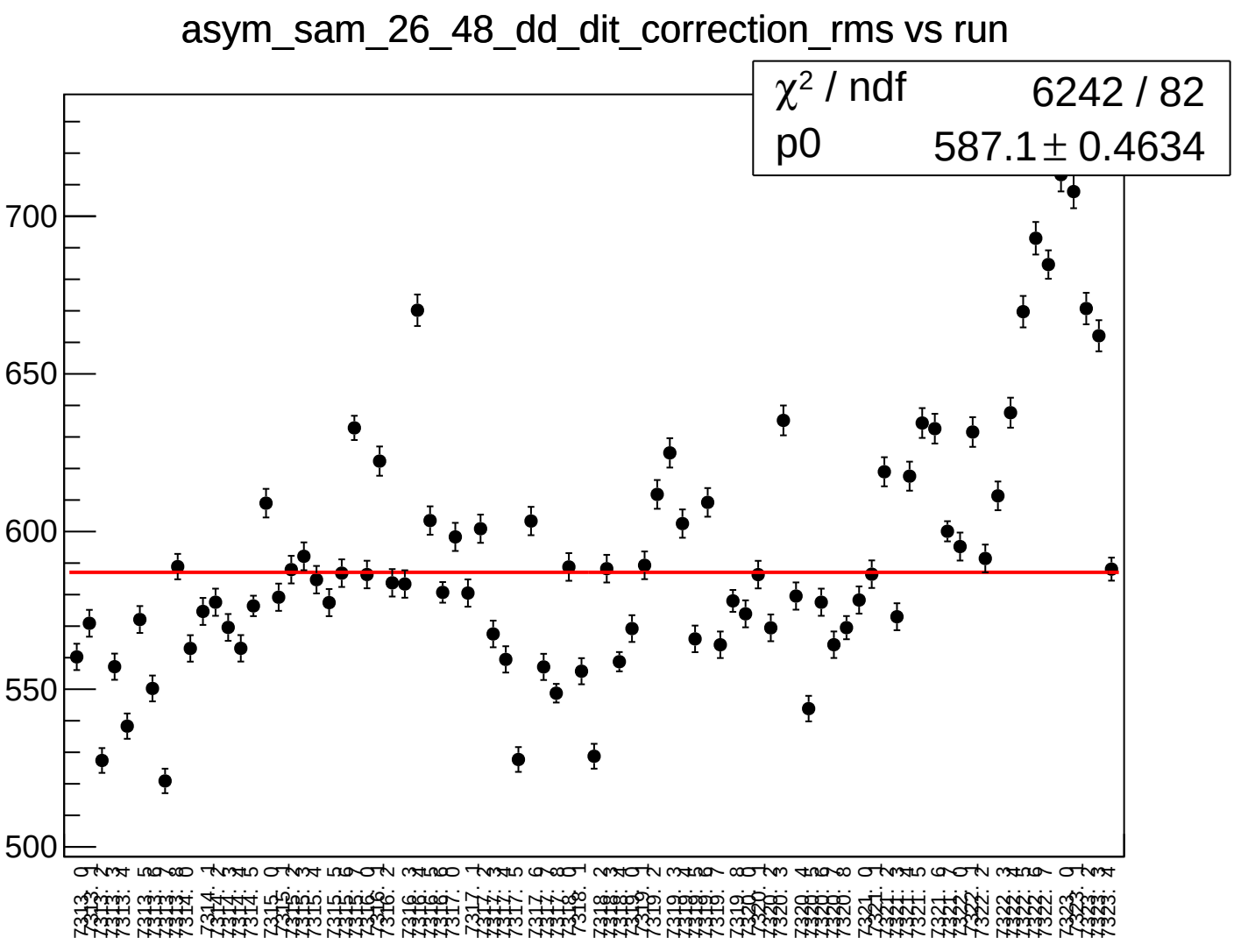

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.08 / 82
p0 −222 ± 116.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 130.5
Std Dev 98.82
2
1
0
−1
−2
−3

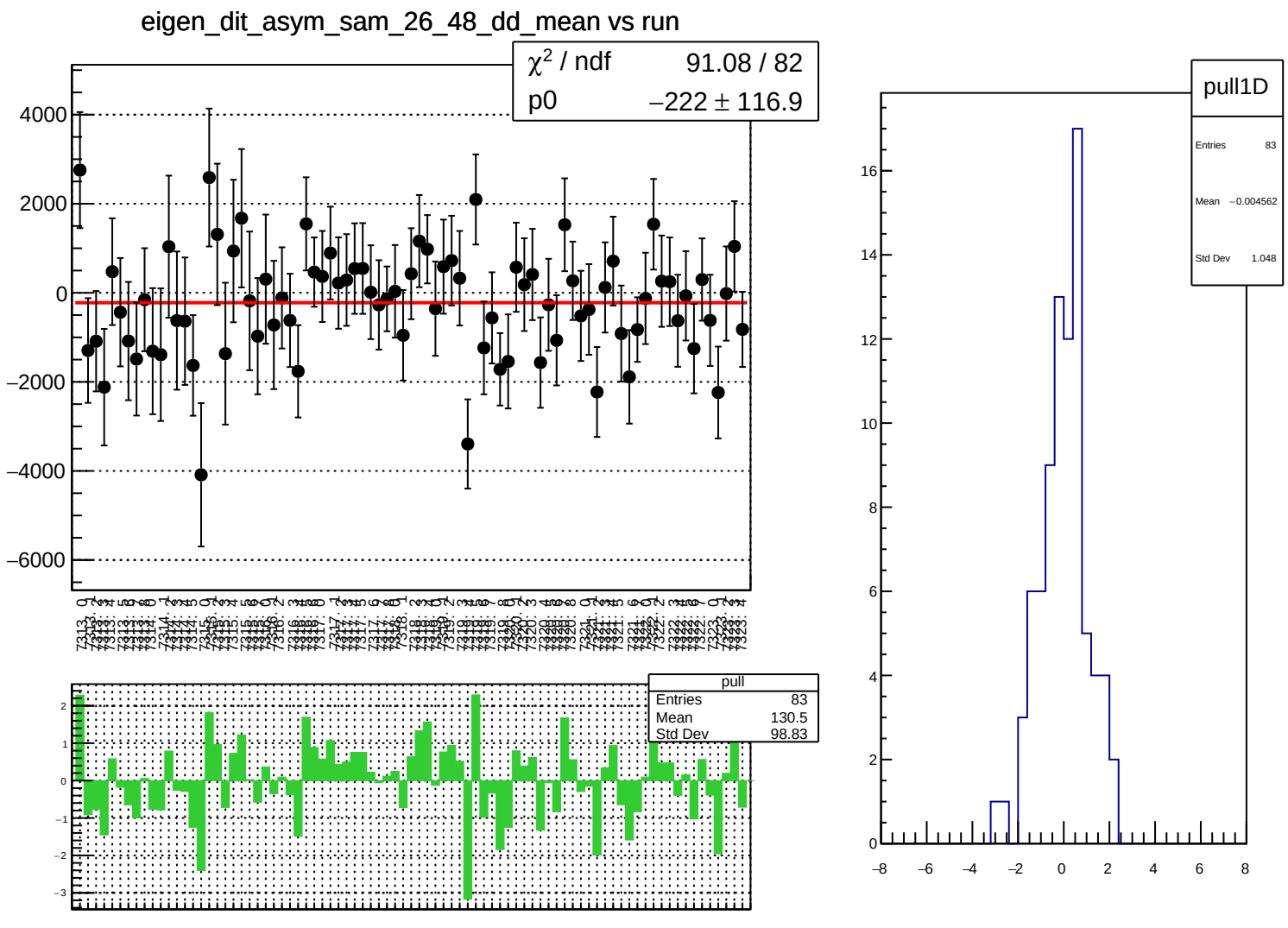

pull1D
Entries 83
Mean −0.004562
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

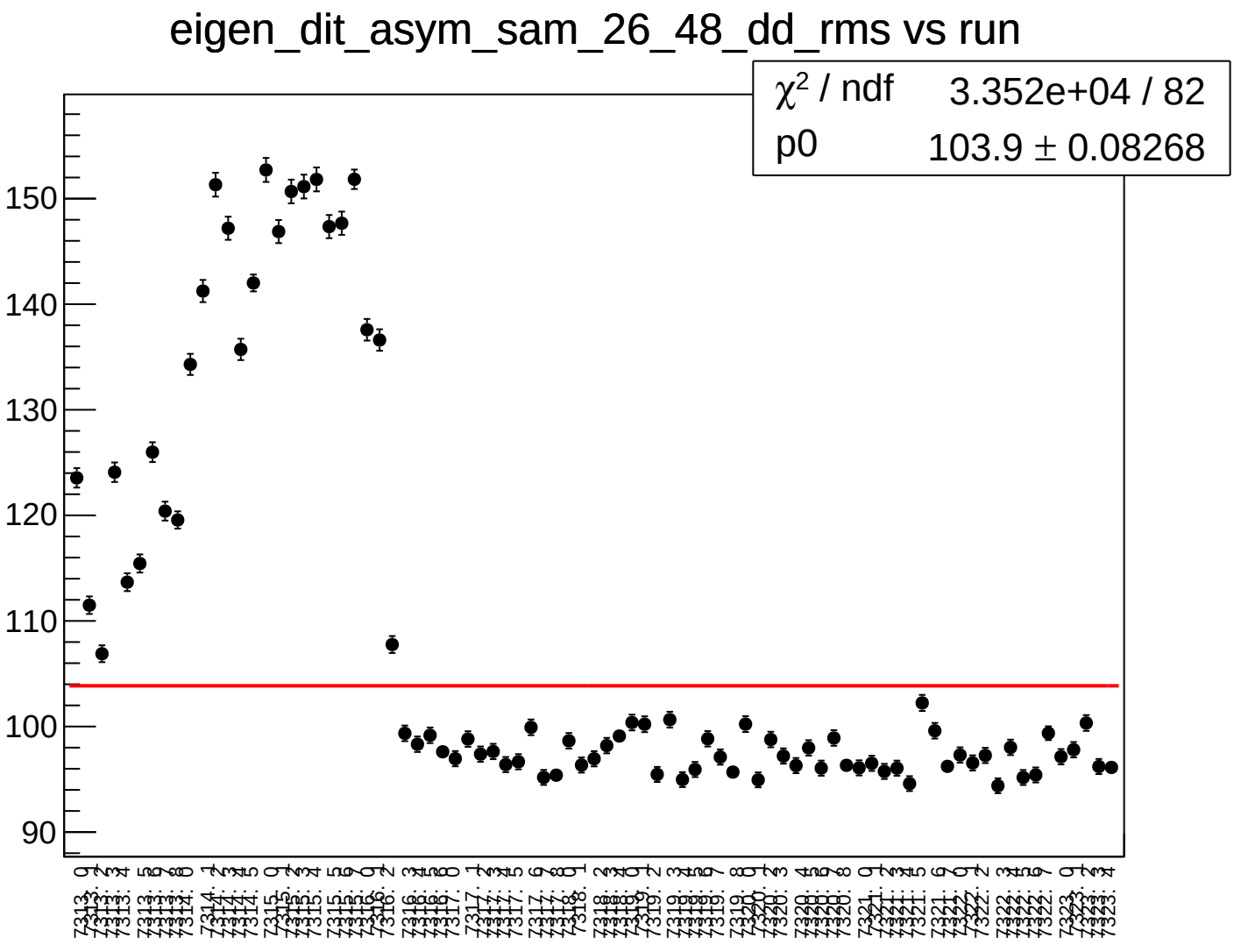

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.352e+04 / 82
p0 103.9 ± 0.08268
150
140
130
120
110
100
90

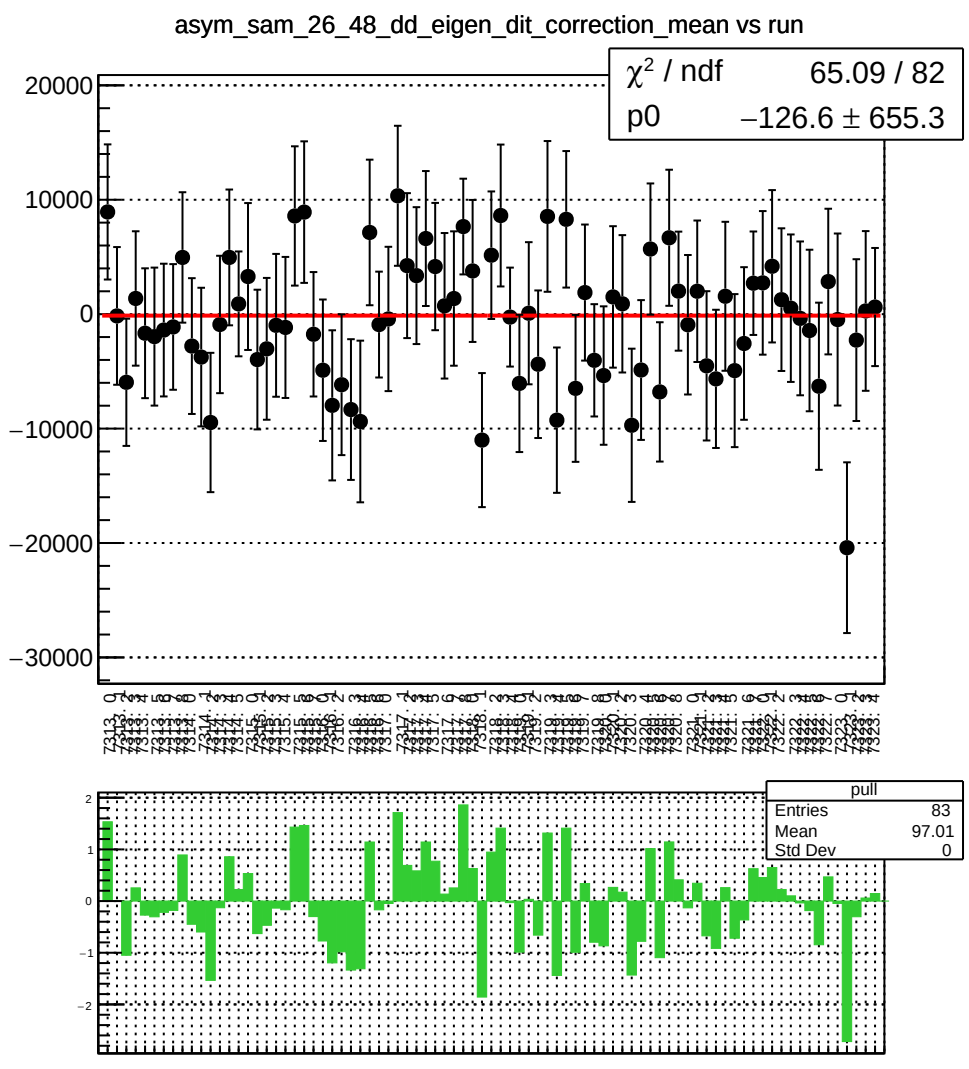

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 65.09 / 82
p0 −126.6 ± 655.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 97.01
Std Dev 0
2
1
0
−1
−2

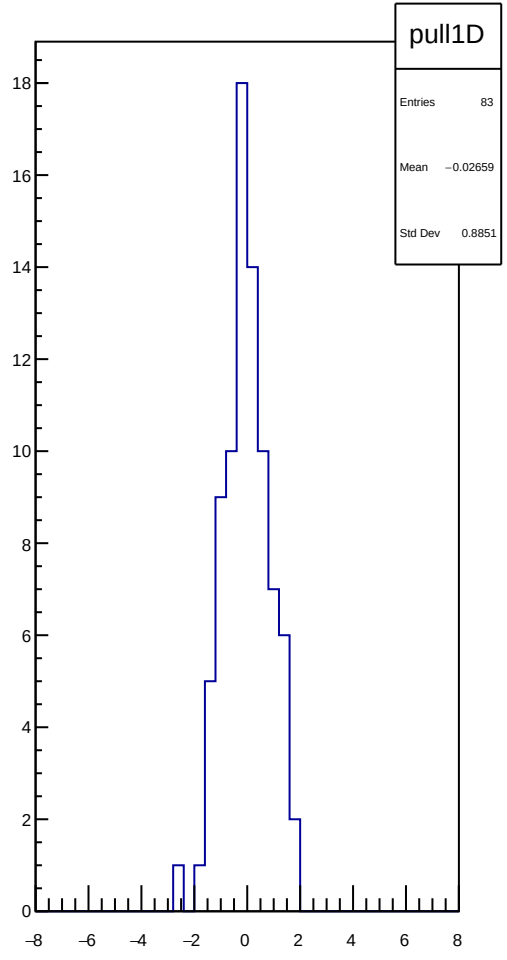

pull1D
Entries 83
Mean −0.02659
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

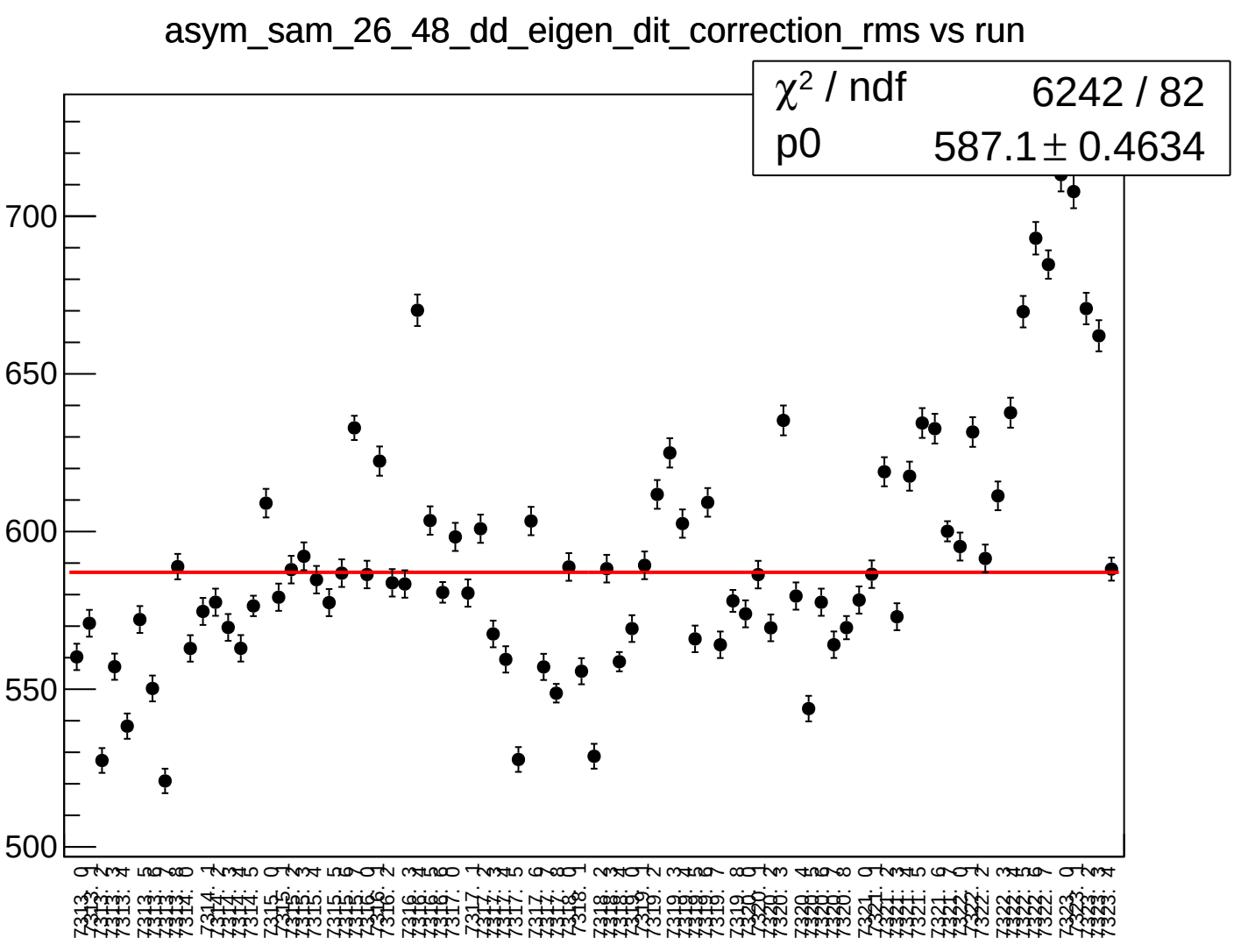

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 6242 / 82
p0 587.1 ± 0.4634
700
650
600
550
500

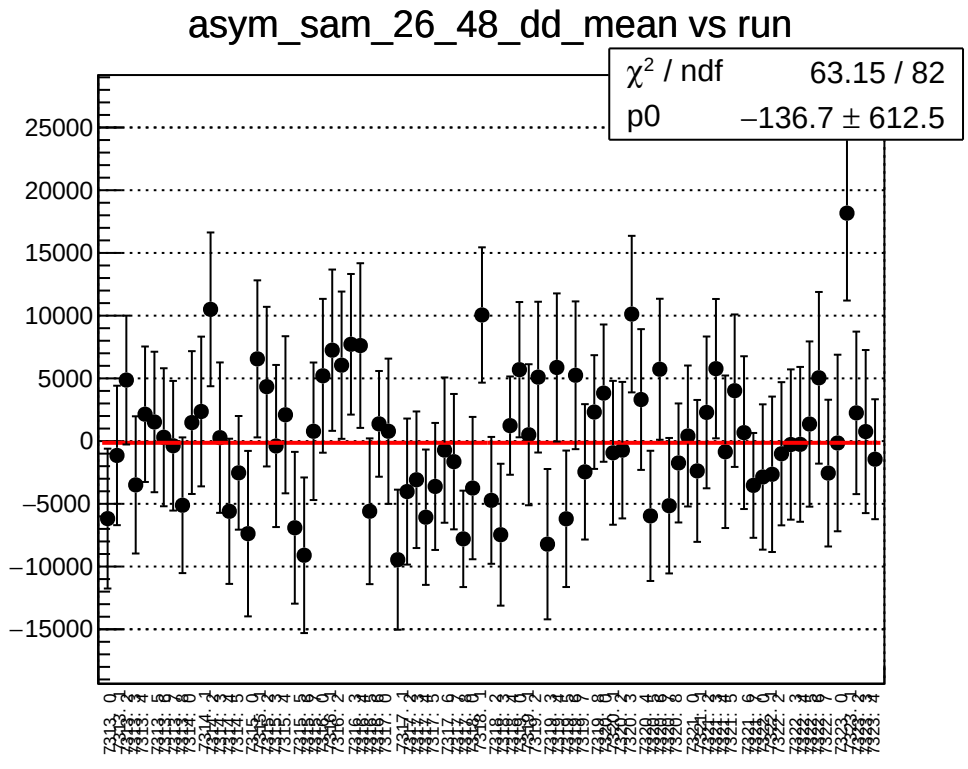

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.08 / 82
p0 −222 ± 116.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 130.5
Std Dev 98.83
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean −0.004562
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

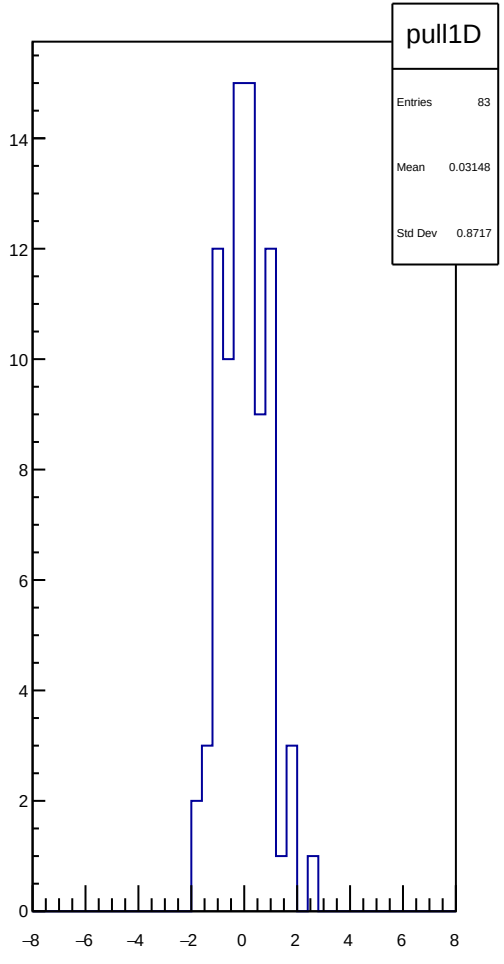

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.352e+04 / 82
p0 103.9 ± 0.08268
150
140
130
120
110
100
90

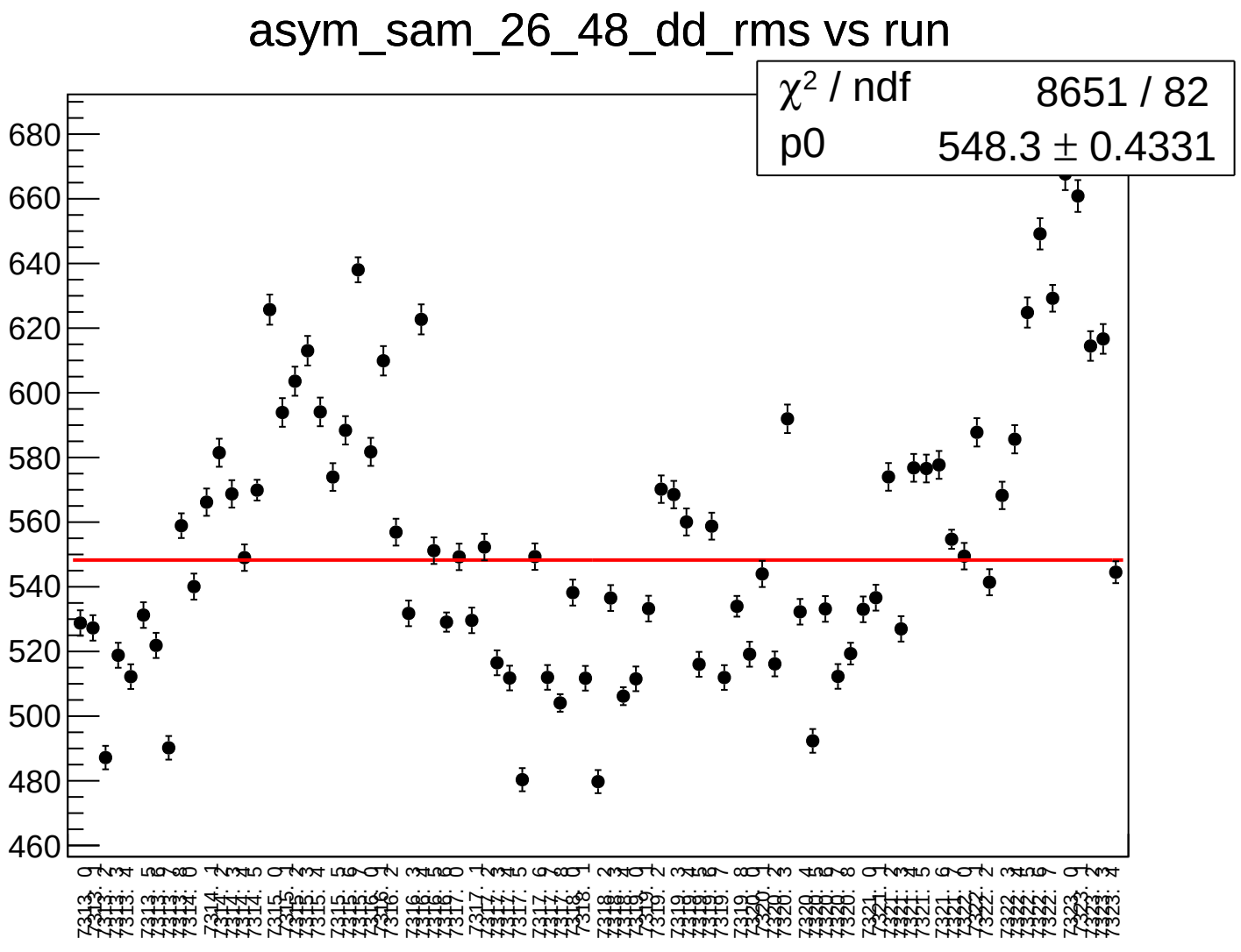

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.09 / 82
p0 −126.6 ± 655.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 97.01
Std Dev 0
2
1
0
−1
−2

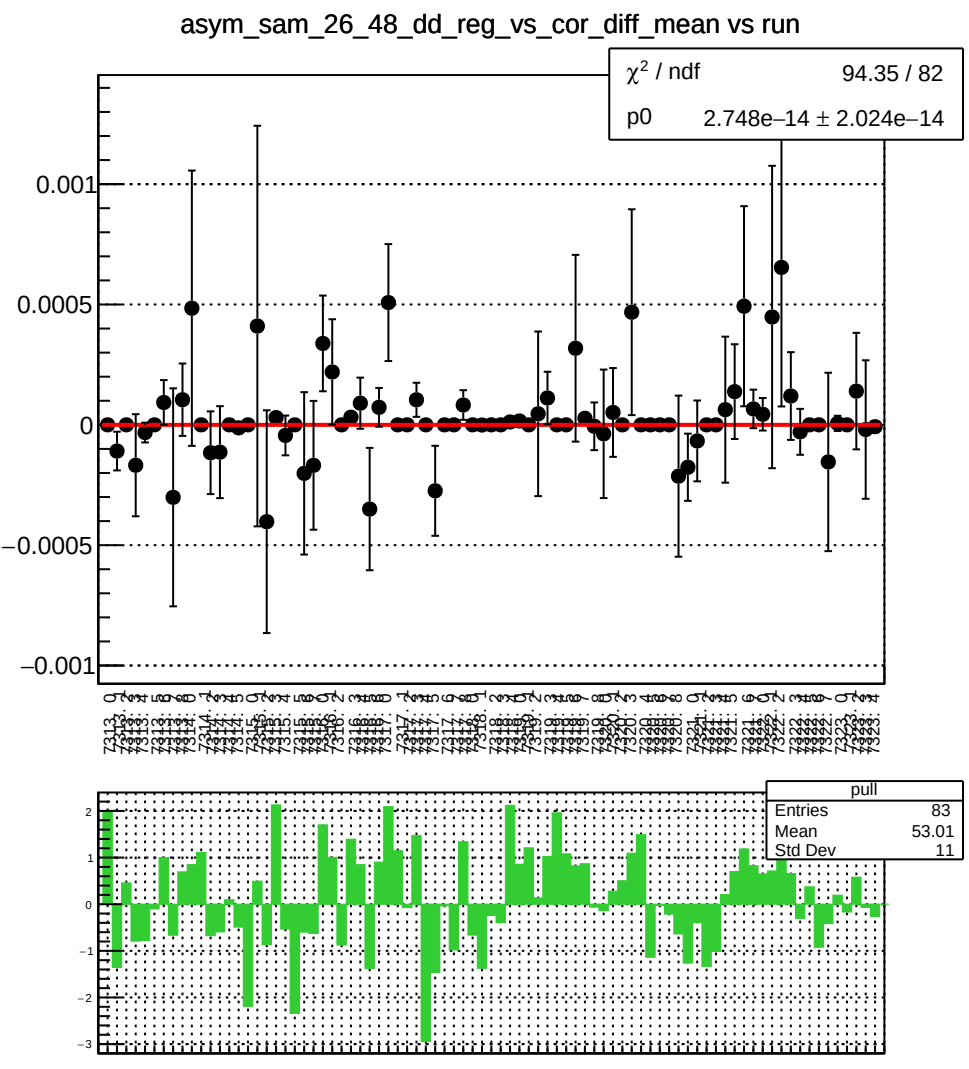

pull1D
Entries 83
Mean −0.02659
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

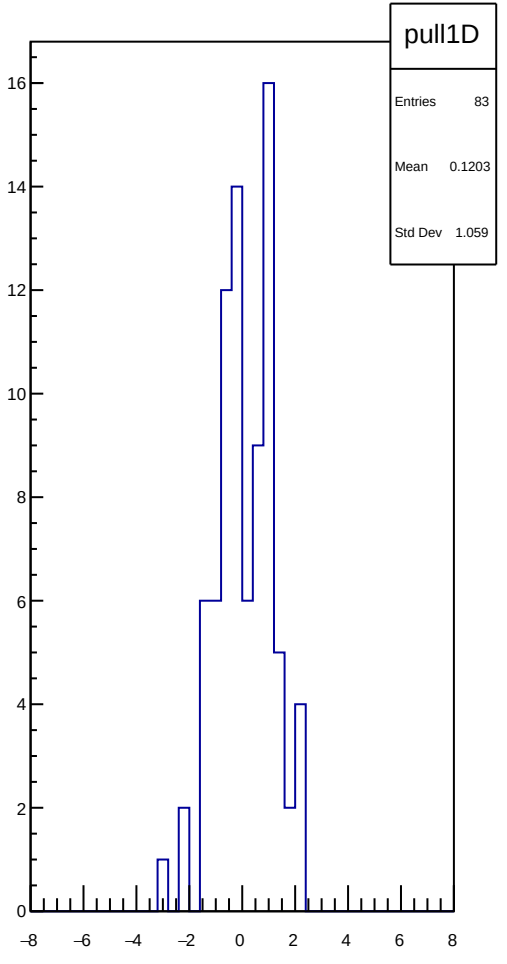

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6242 / 82
p0 587.1 ± 0.4634
700
650
600
550
500

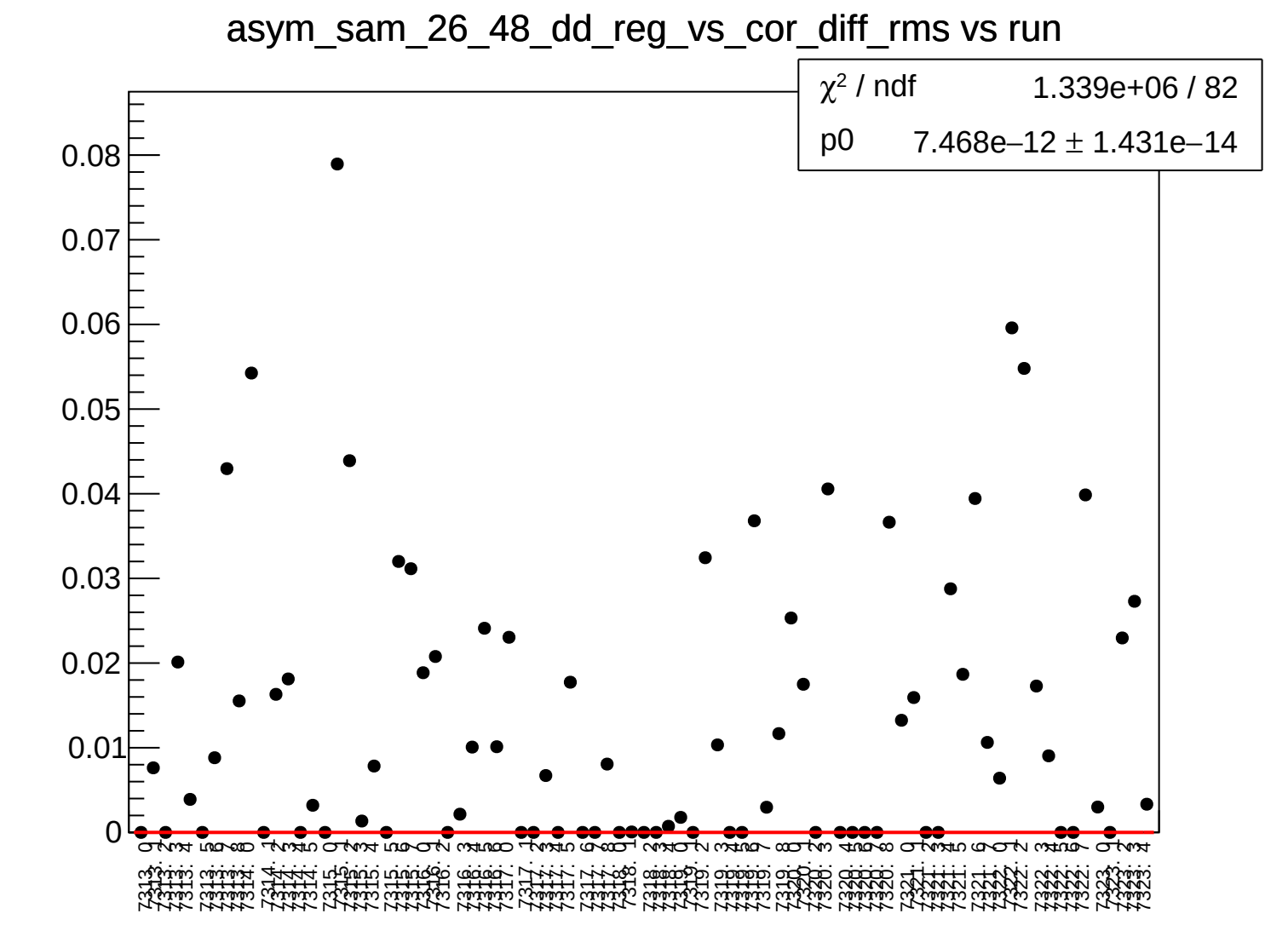

asym_sam_26_48_dd_mean vs run
χ² / ndf 63.15 / 82
p0 −136.7 ± 612.5
pull
Entries 83
Mean 93.64
Std Dev 0

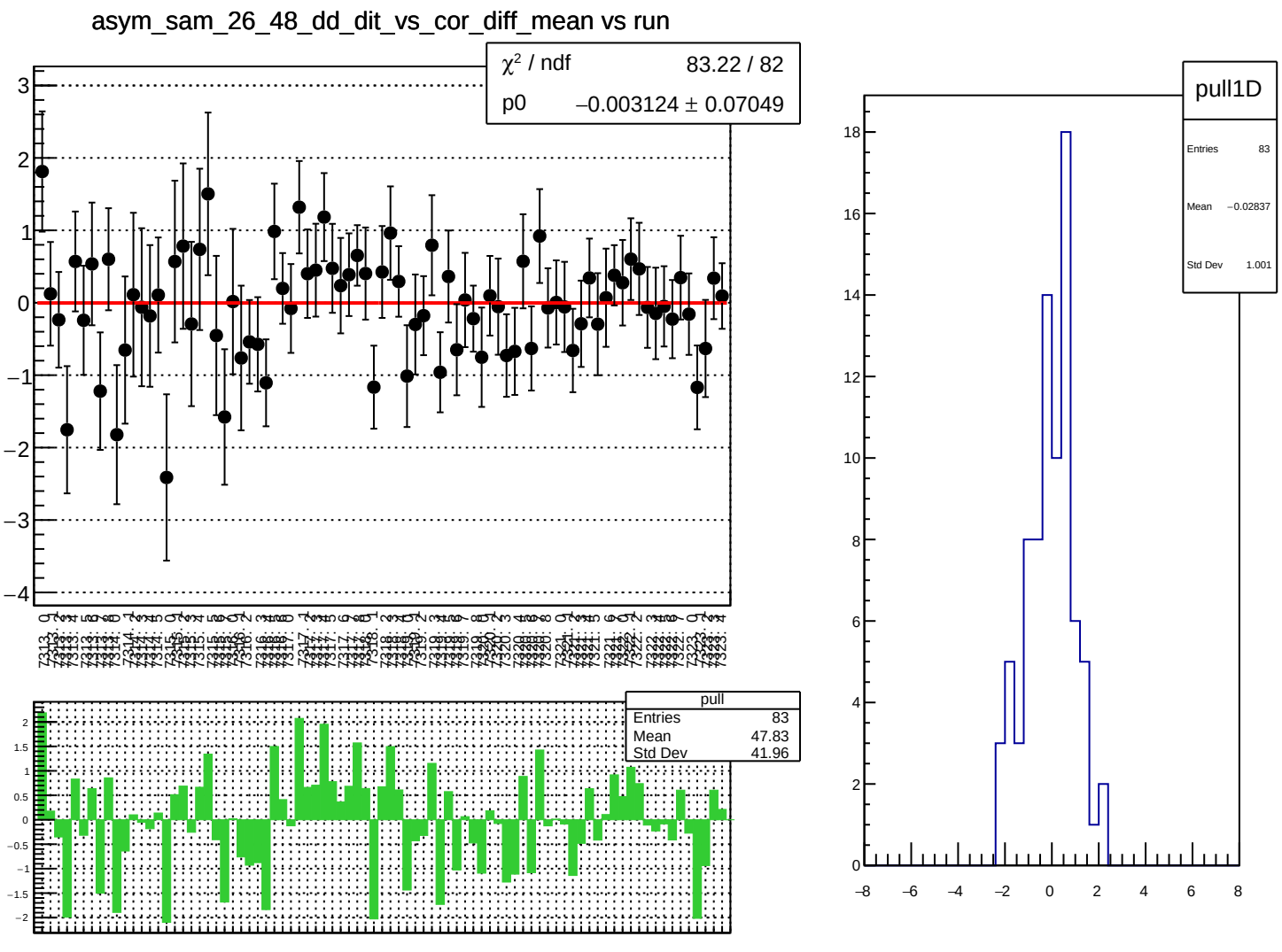

pull1D
Entries 83
Mean 0.03148
Std Dev 0.8717

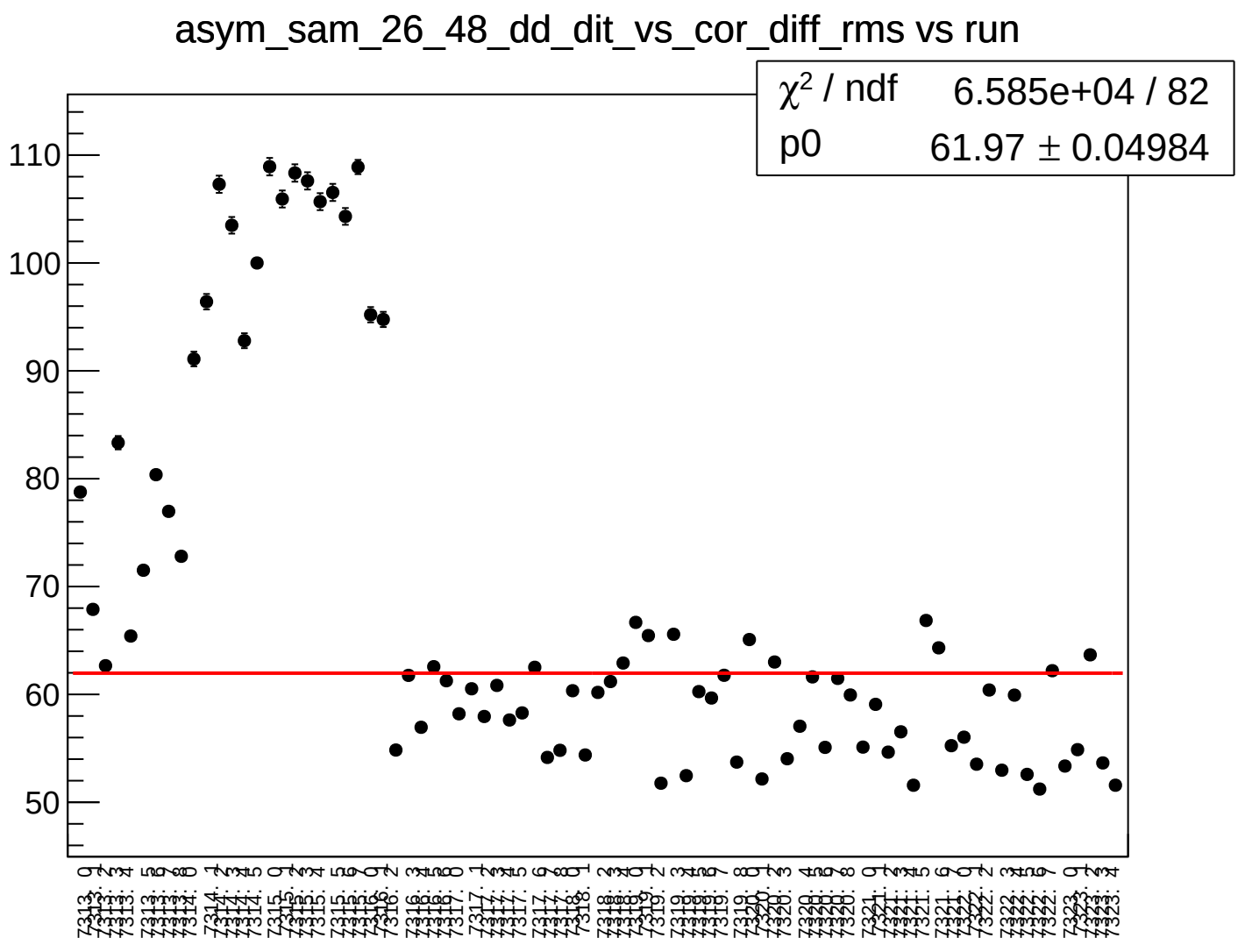

asym_sam_26_48_dd_rms vs run
χ² / ndf 8651 / 82
p0 548.3 ± 0.4331
680
660
640
620
600
580
560
540
520
500
480
460


asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.35 / 82
p0 2.748e−14 ± 2.024e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 53.01
Std Dev 11
2
1
0
−1
−2
−3

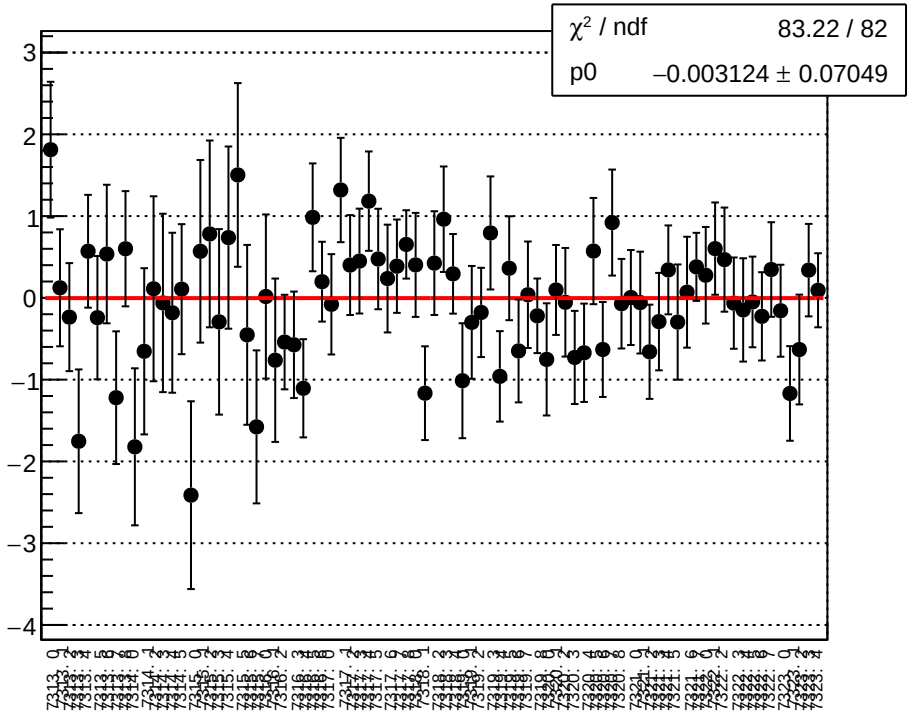

pull1D
Entries 83
Mean 0.1203
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

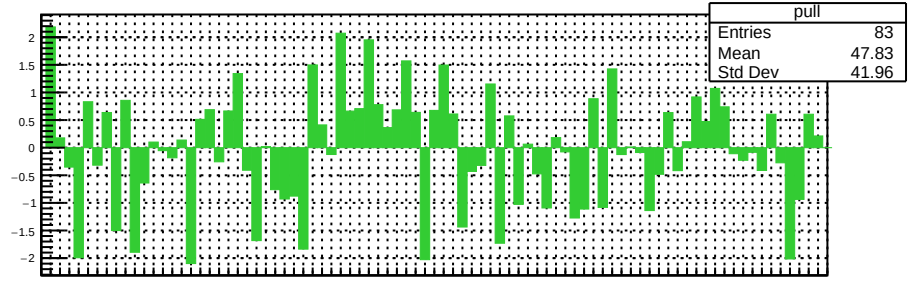

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.339e+06 / 82
p0 7.468e−12 ± 1.431e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

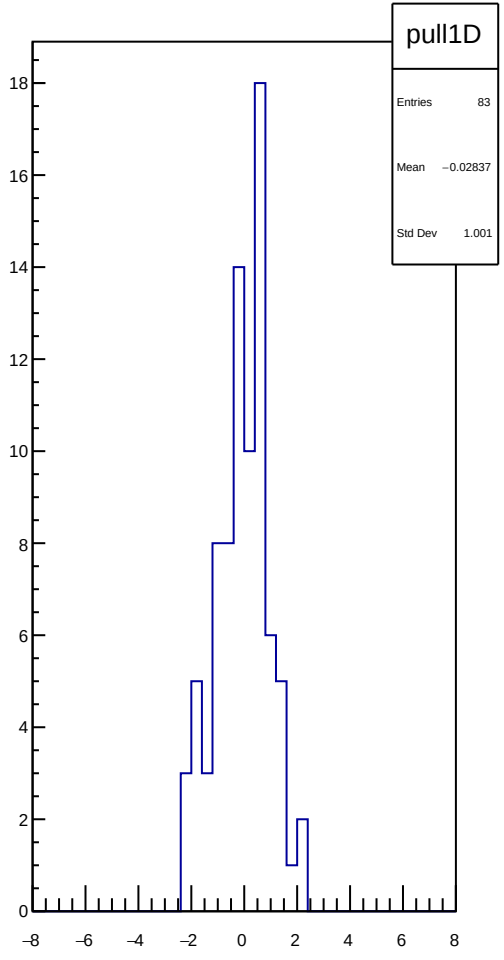

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.22 / 82
p0 −0.003124 ± 0.07049
pull
Entries 83
Mean 47.83
Std Dev 41.96
pull1D
Entries 83
Mean −0.02837
Std Dev 1.001

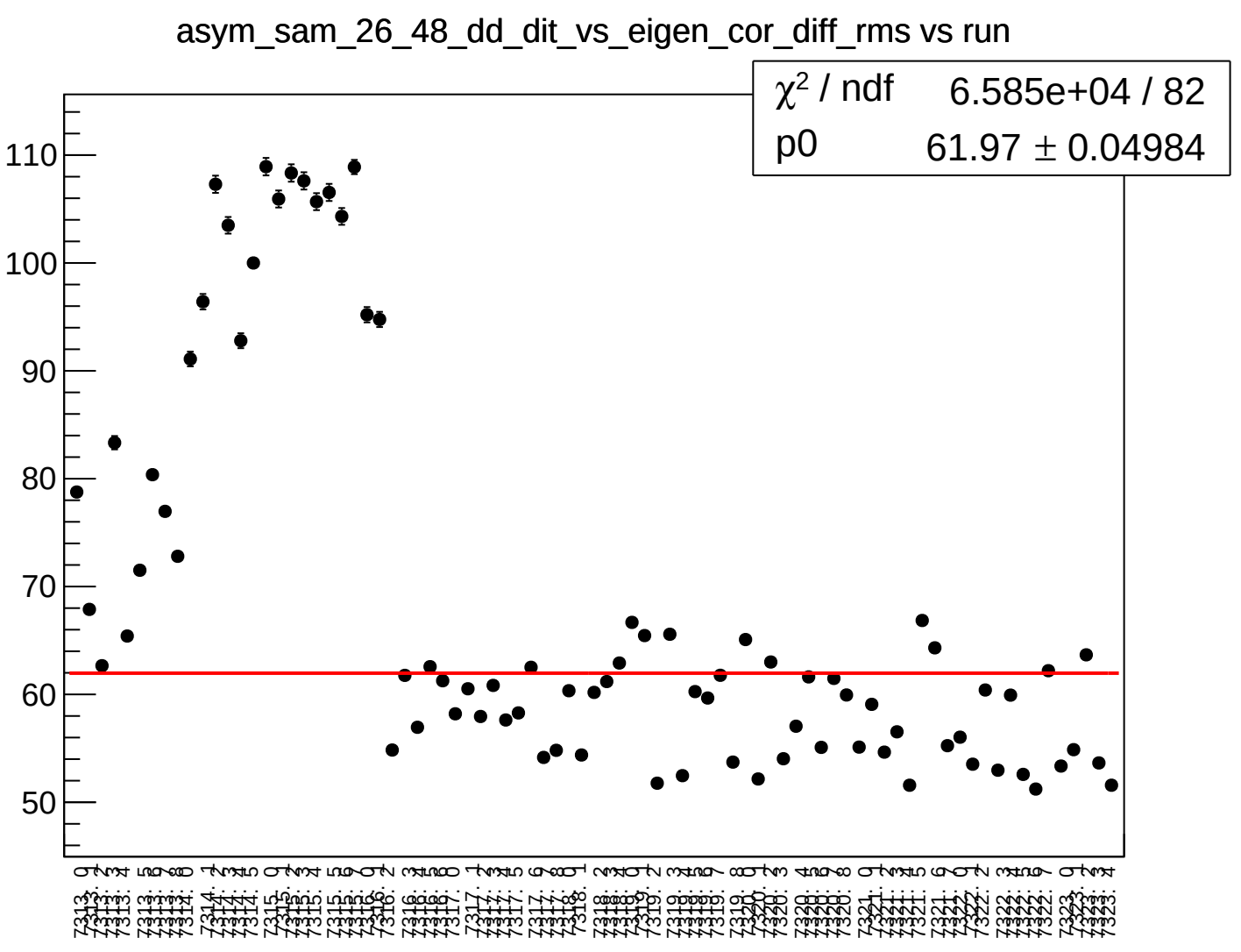

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 82
p0 61.97 ± 0.04984
110
100
90
80
70
60
50

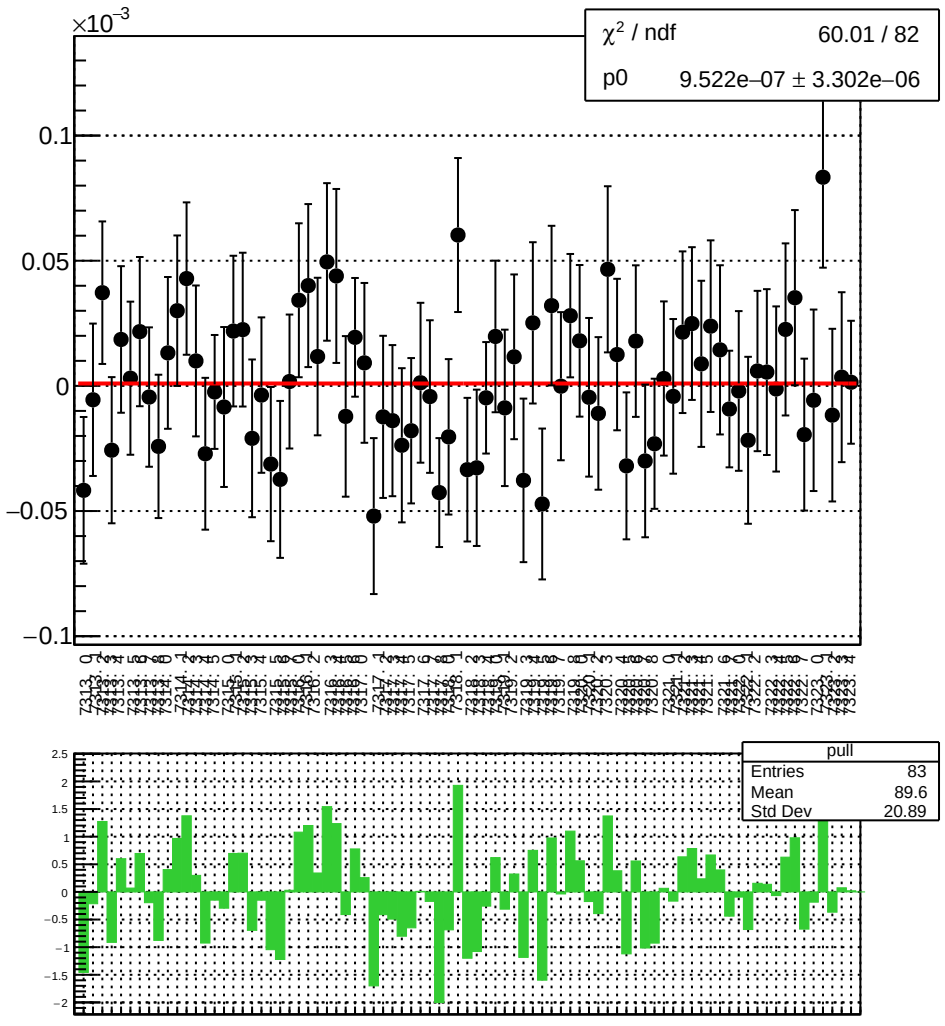
asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run

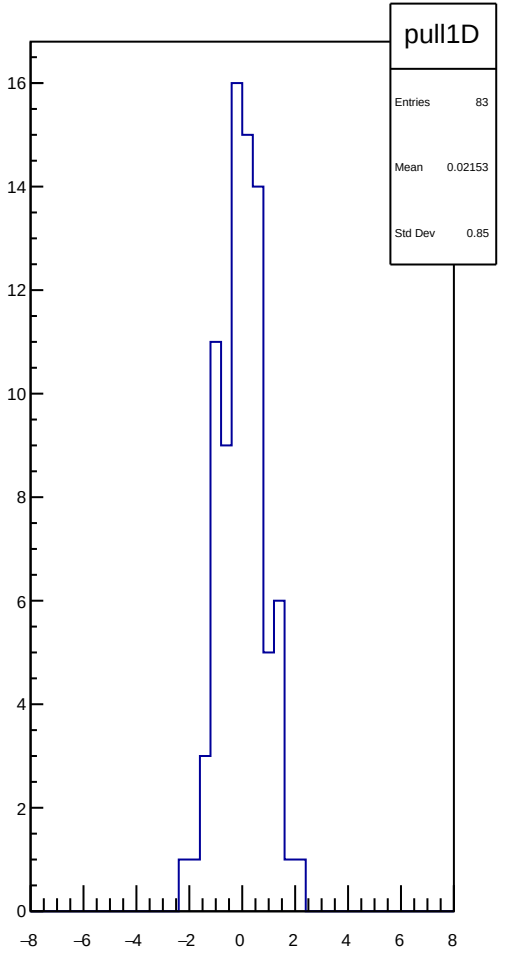


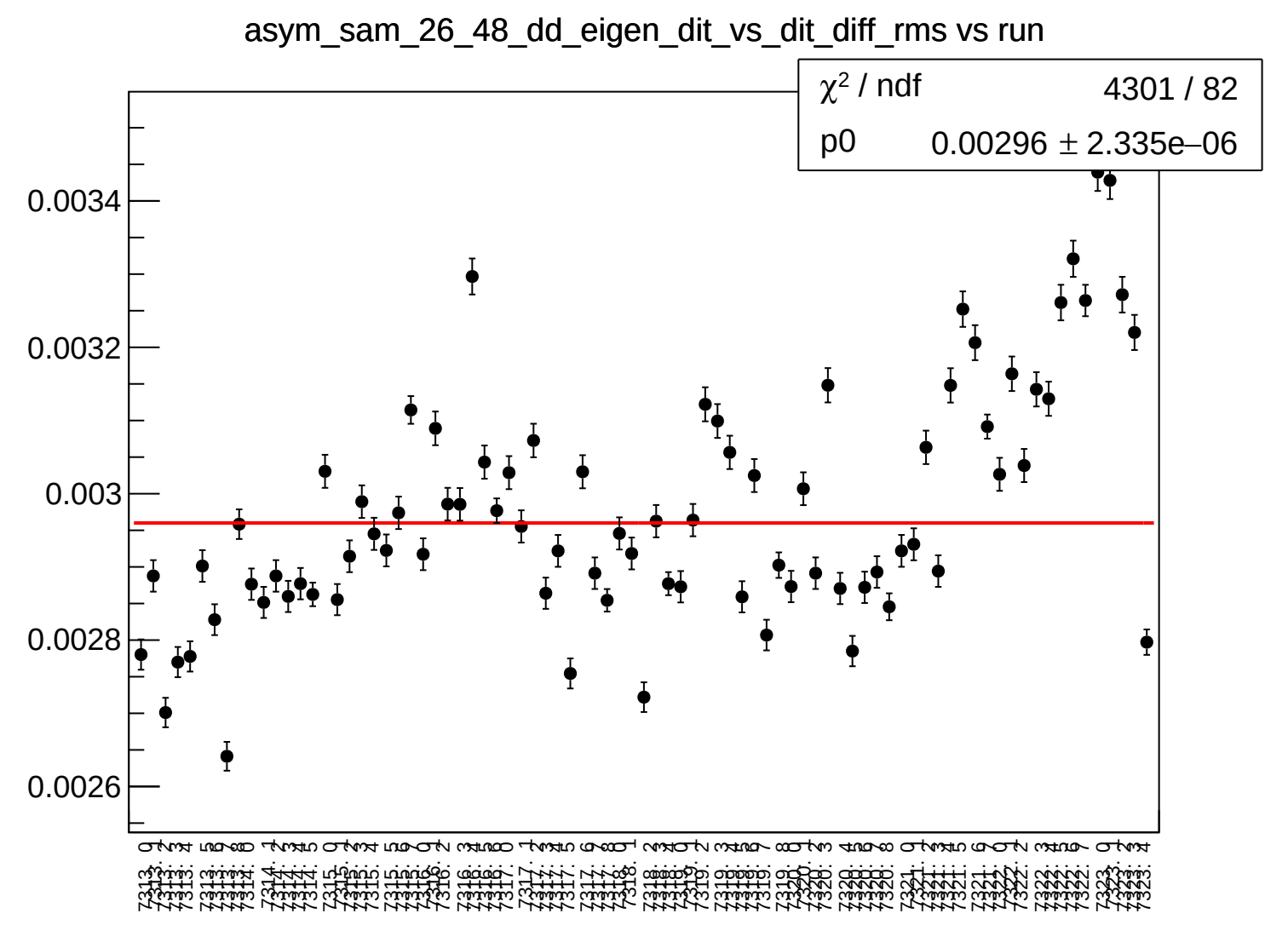


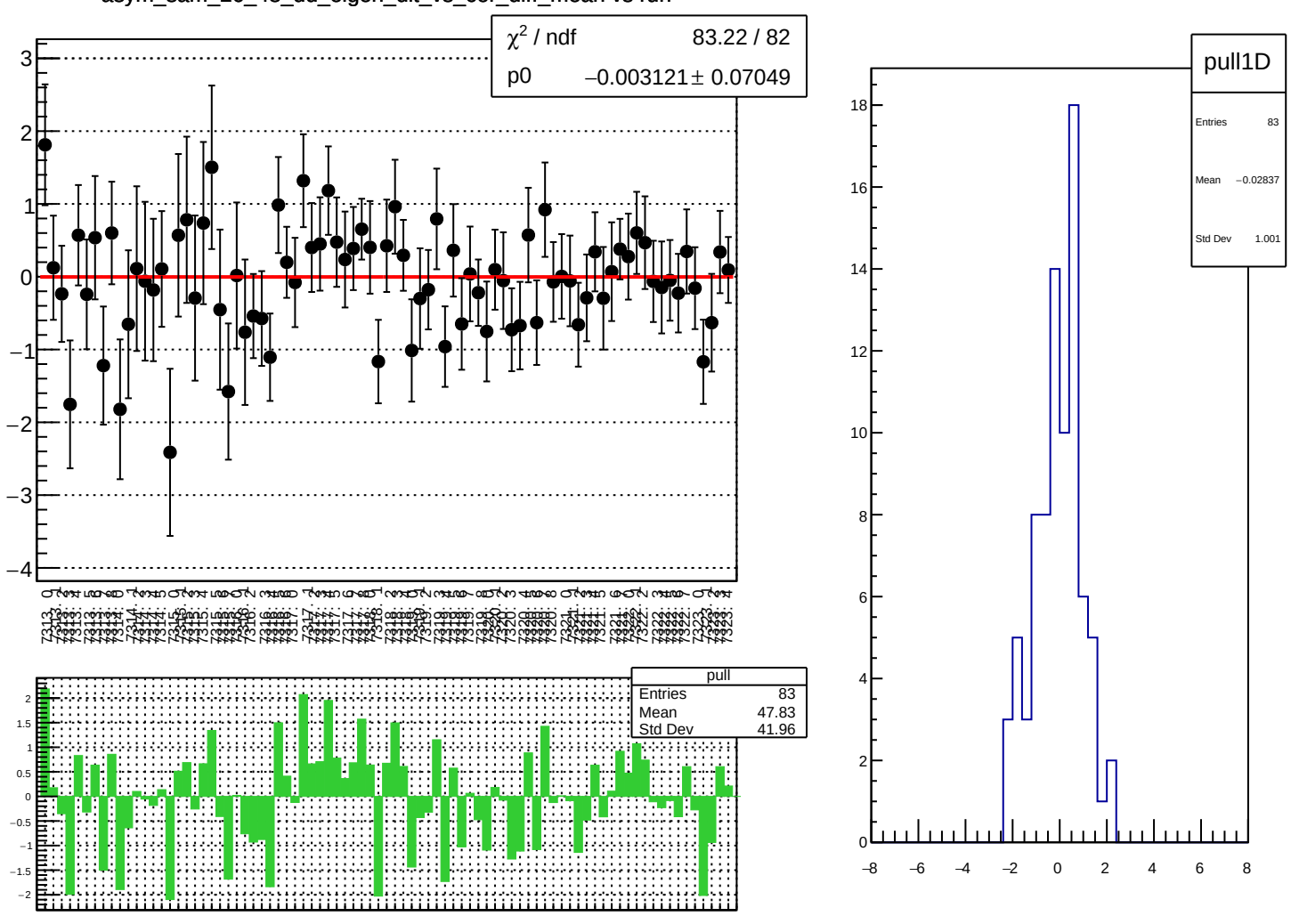


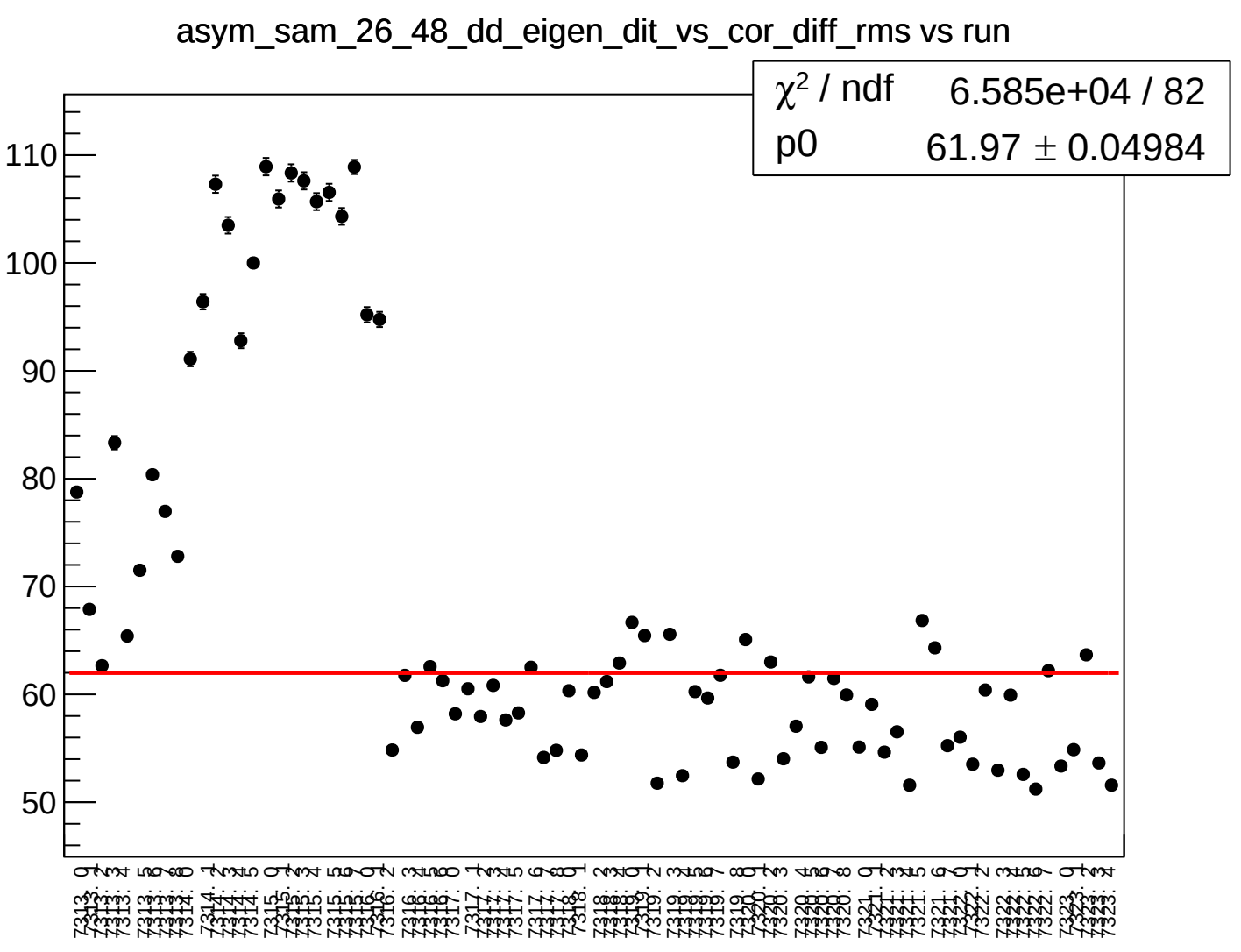

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.585e+04 / 82
p0 61.97 ± 0.04984
110
100
90
80
70
60
50

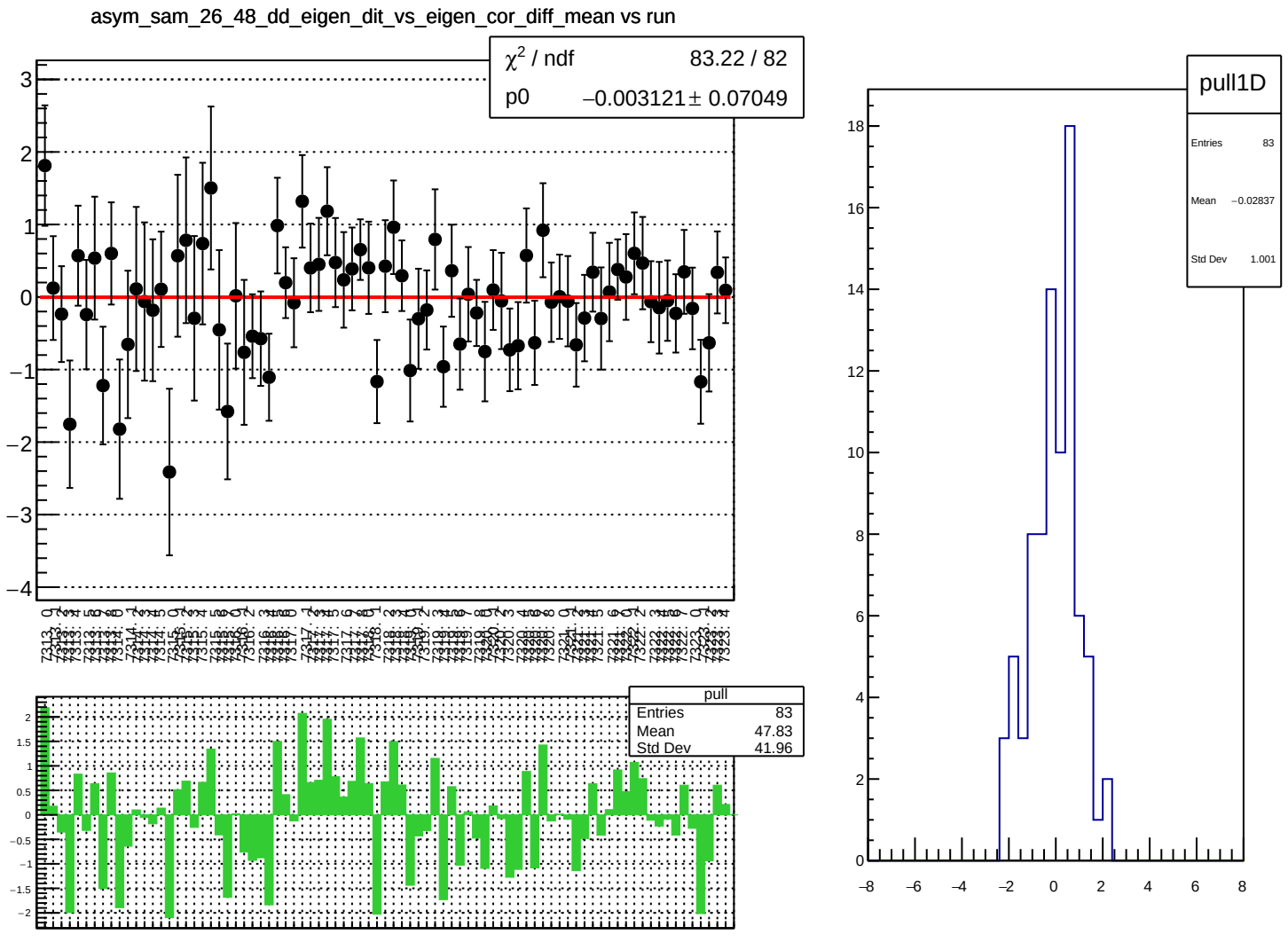

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.01 / 82
p0 9.522e−07 ± 3.302e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean 89.6
Std Dev 20.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

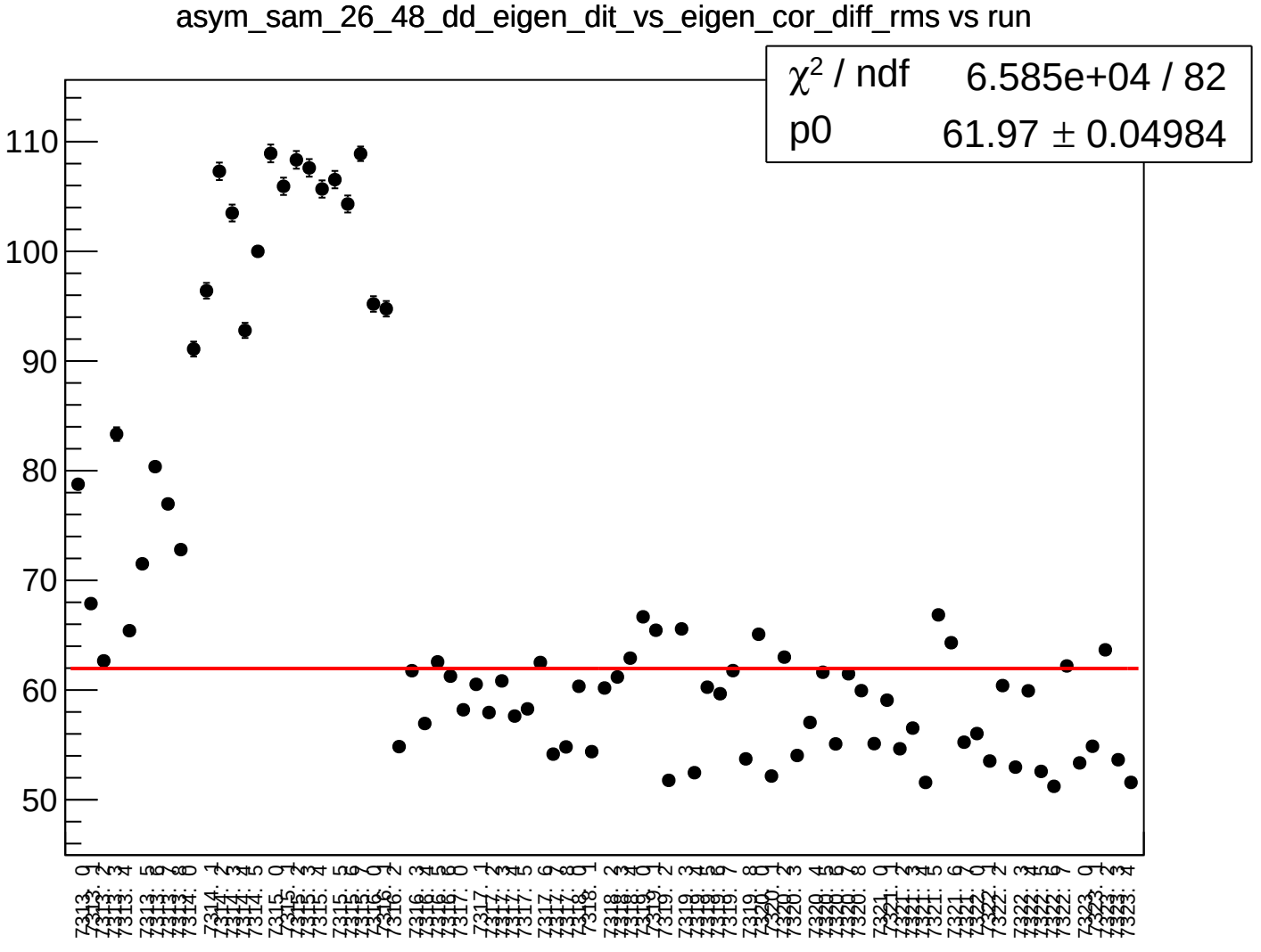

pull1D
Entries 83
Mean 0.02153
Std Dev 0.85
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

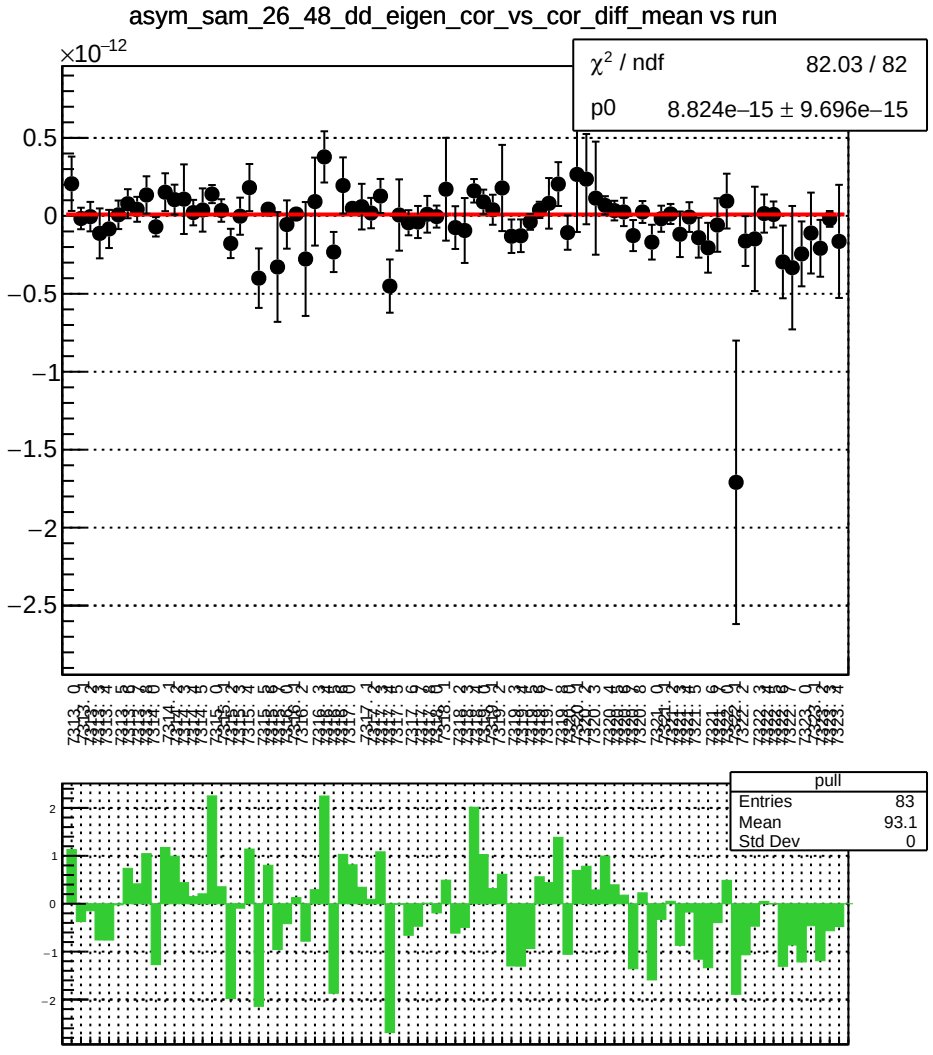

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4301 / 82
p0 0.00296 ± 2.335e−06
0.0034
0.0032
0.003
0.0028
0.0026

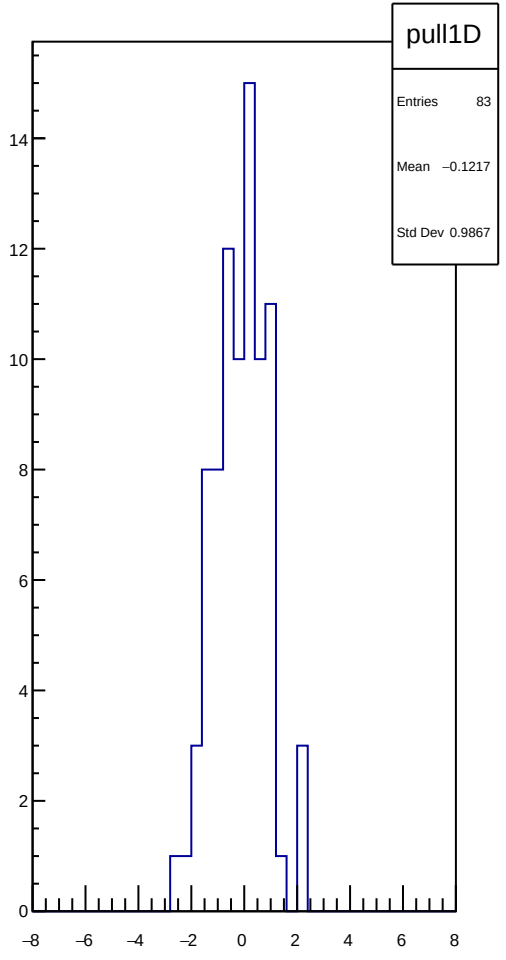

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.22 / 82
p0 −0.003121 ± 0.07049
pull
Entries 83
Mean 47.83
Std Dev 41.96
pull1D
Entries 83
Mean −0.02837
Std Dev 1.001

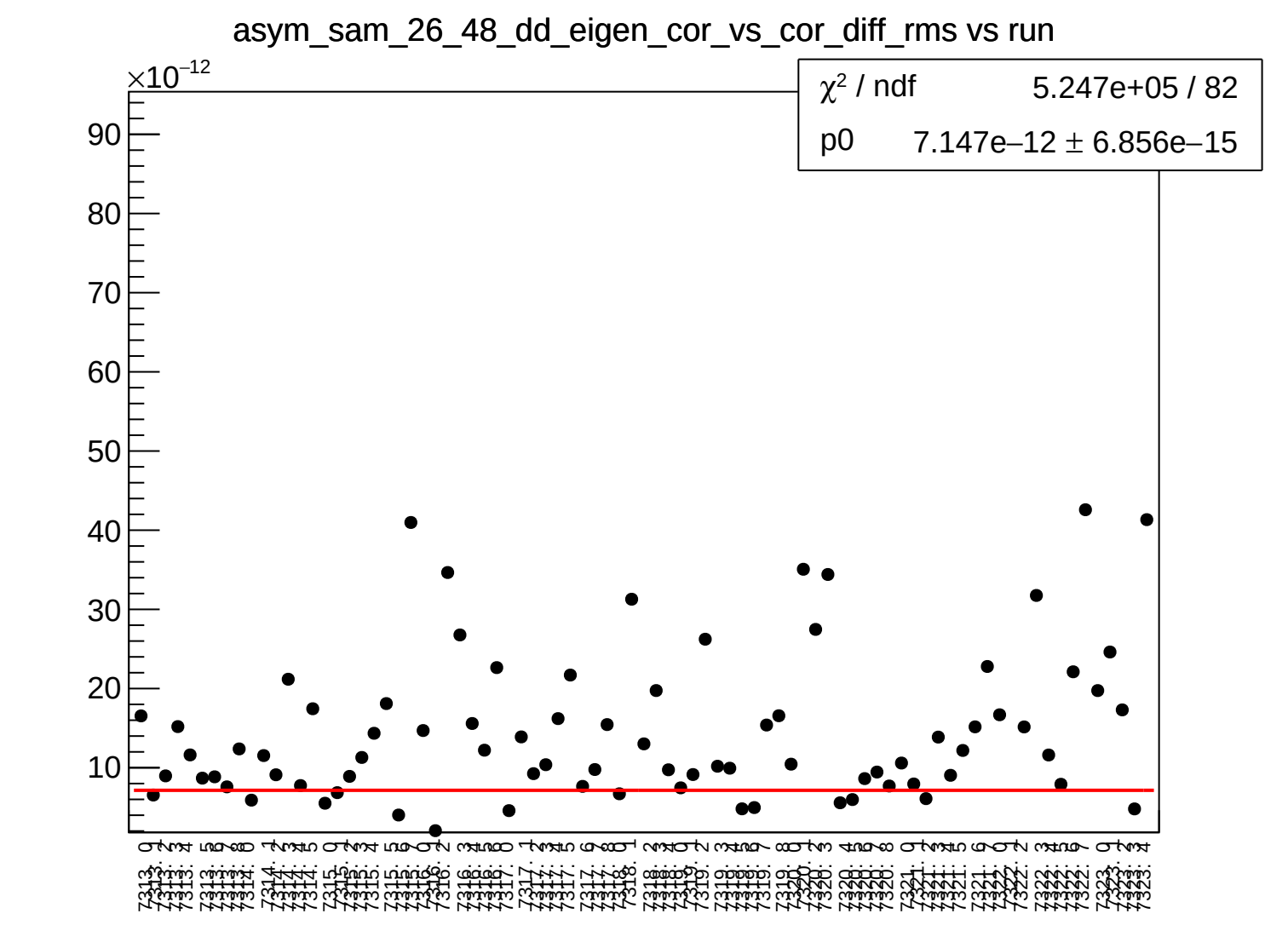

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 82
p0 61.97 ± 0.04984
110
100
90
80
70
60
50

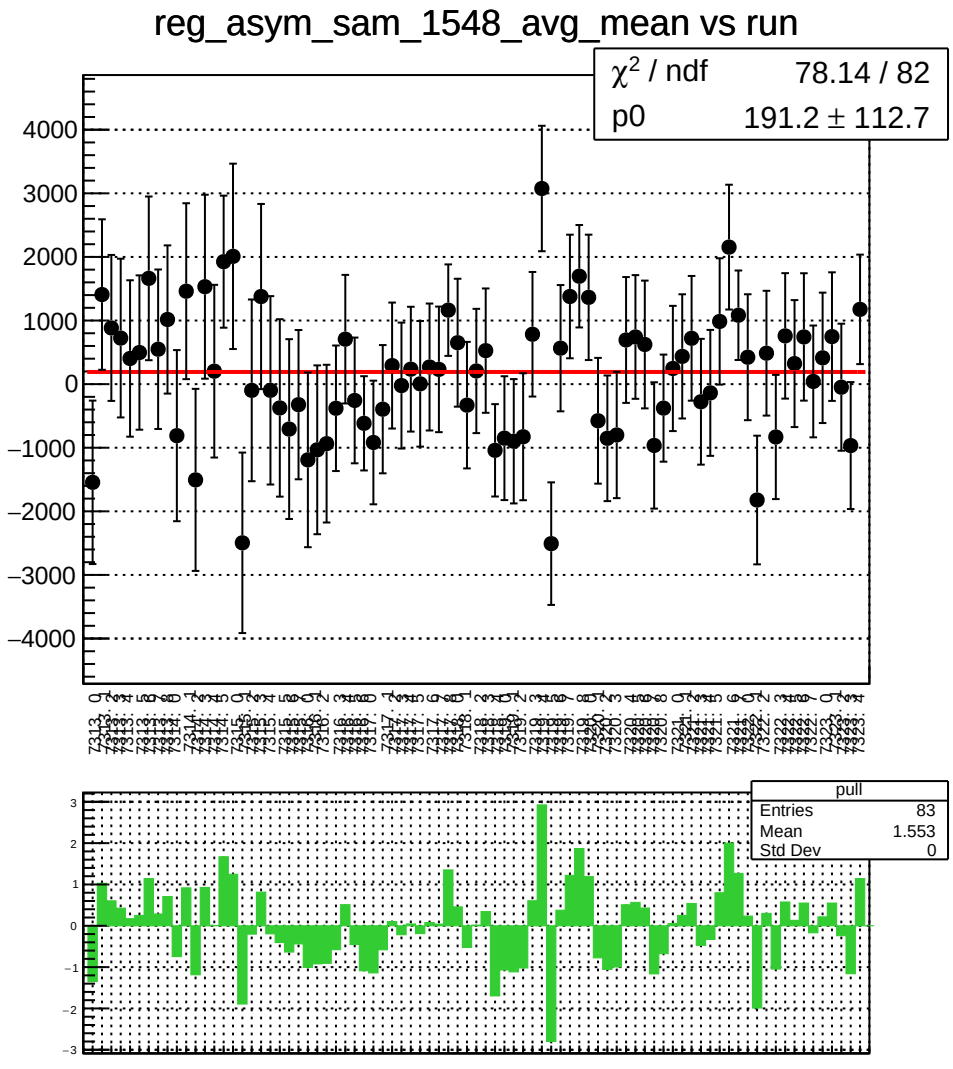

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.22 / 82
p0 −0.003121 ± 0.07049
pull
Entries 83
Mean 47.83
Std Dev 41.96
pull1D
Entries 83
Mean −0.02837
Std Dev 1.001

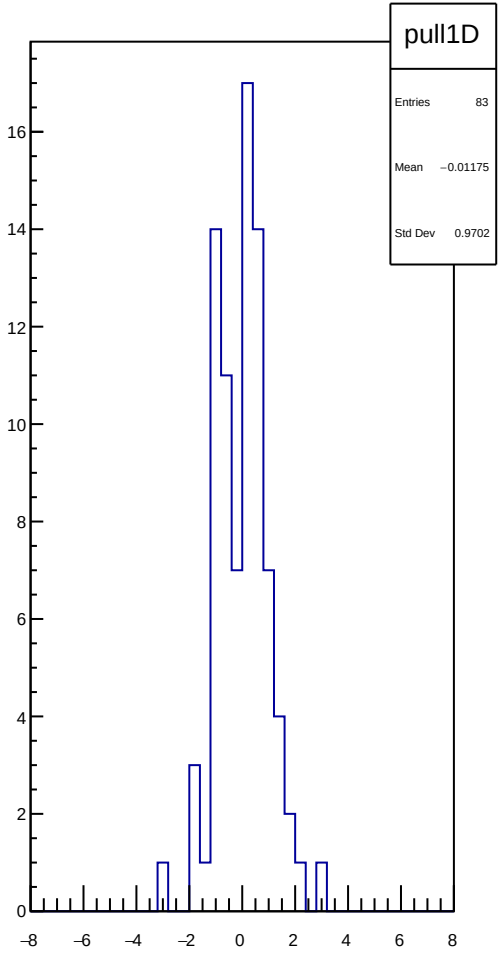

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.585e+04 / 82
p0 61.97 ± 0.04984
110
100
90
80
70
60
50

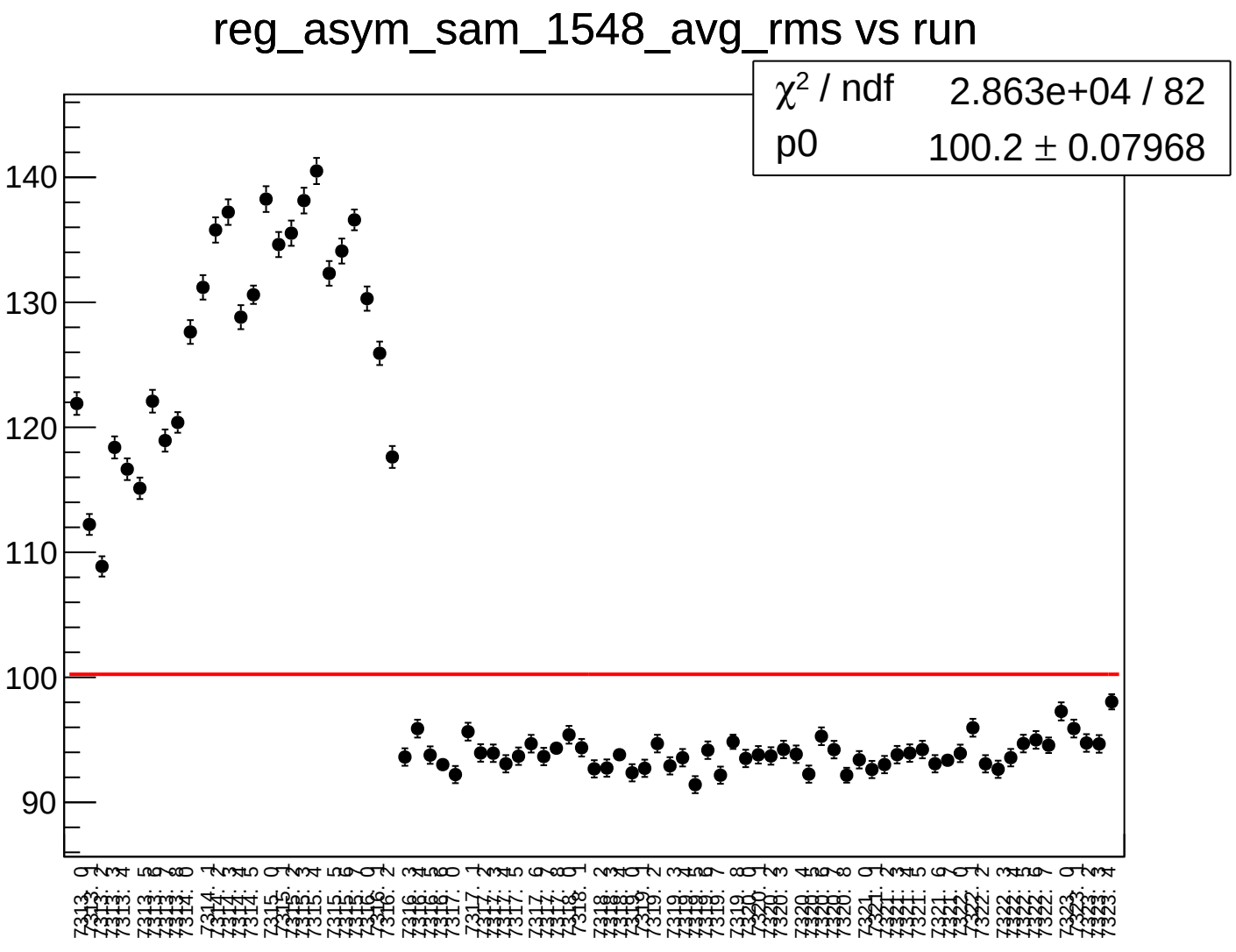

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.03 / 82
p0 8.824e−15 ± 9.696e−15
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 83
Mean 93.1
Std Dev 0
2
1
0
−1
−2

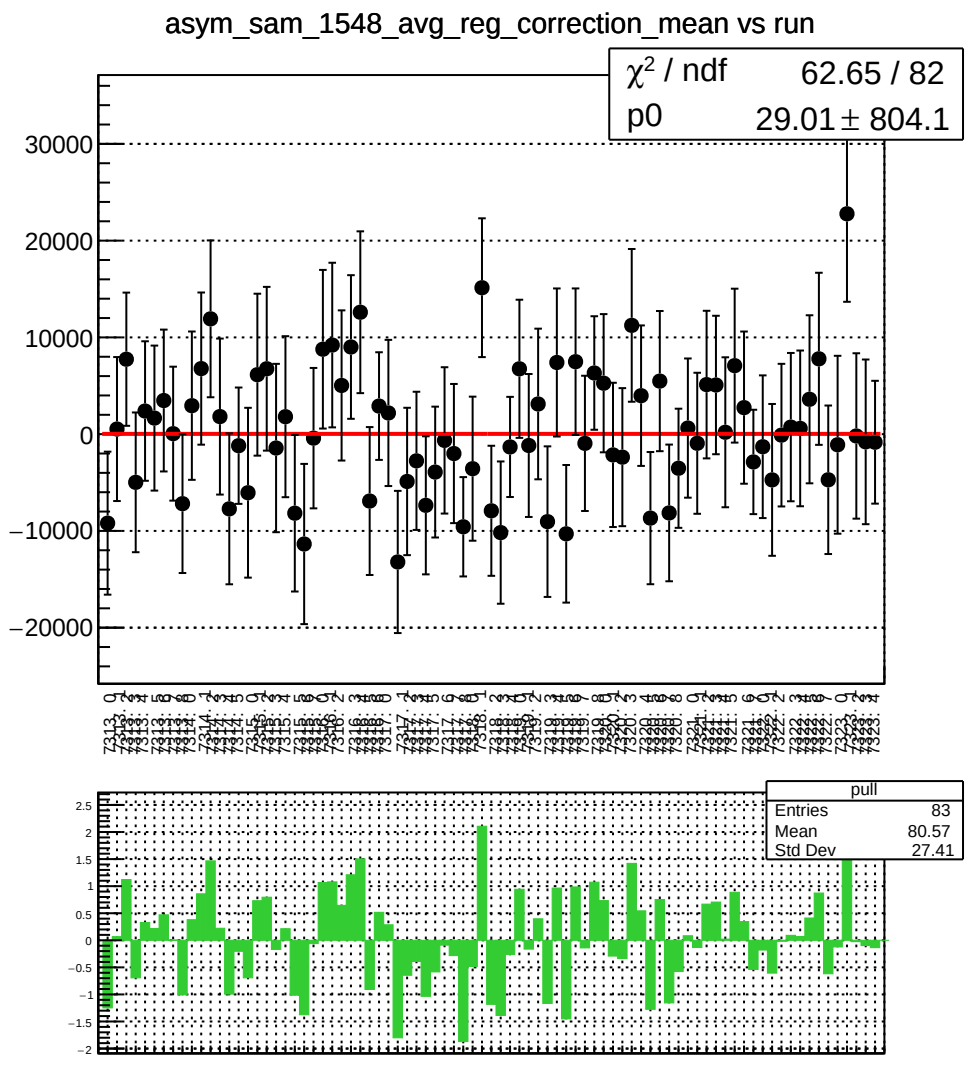

pull1D
Entries 83
Mean −0.1217
Std Dev 0.9867
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

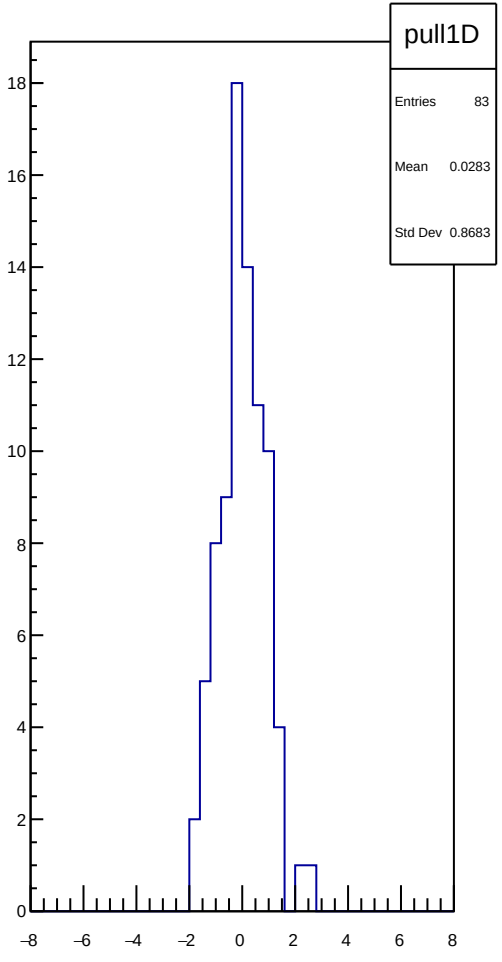

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.247e+05 / 82
p0 7.147e−12 ± 6.856e−15
90
80
70
60
50
40
30
20
10

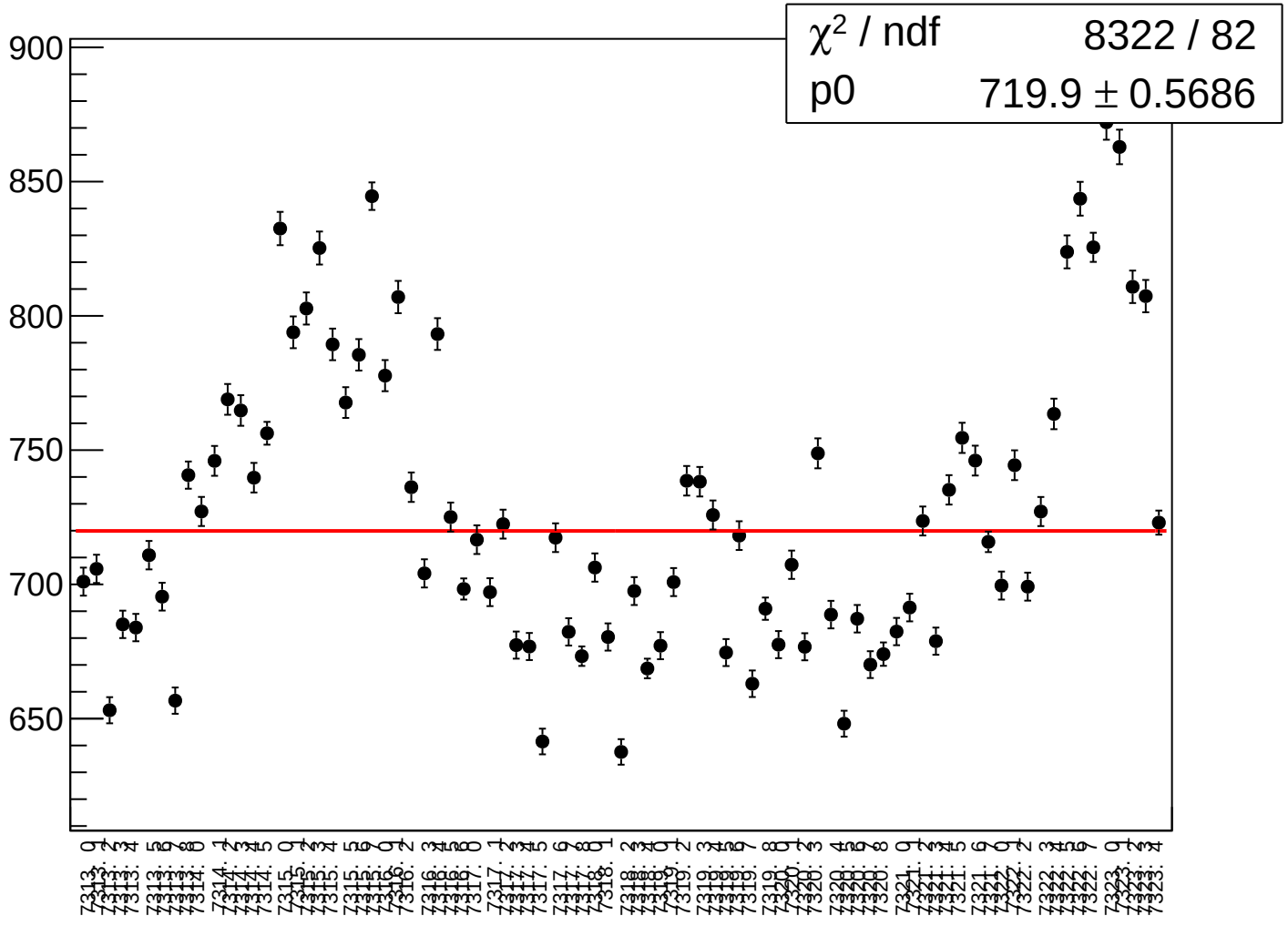

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 78.14 / 82
p0 191.2 ± 112.7
pull
Entries 83
Mean 1.553
Std Dev 0

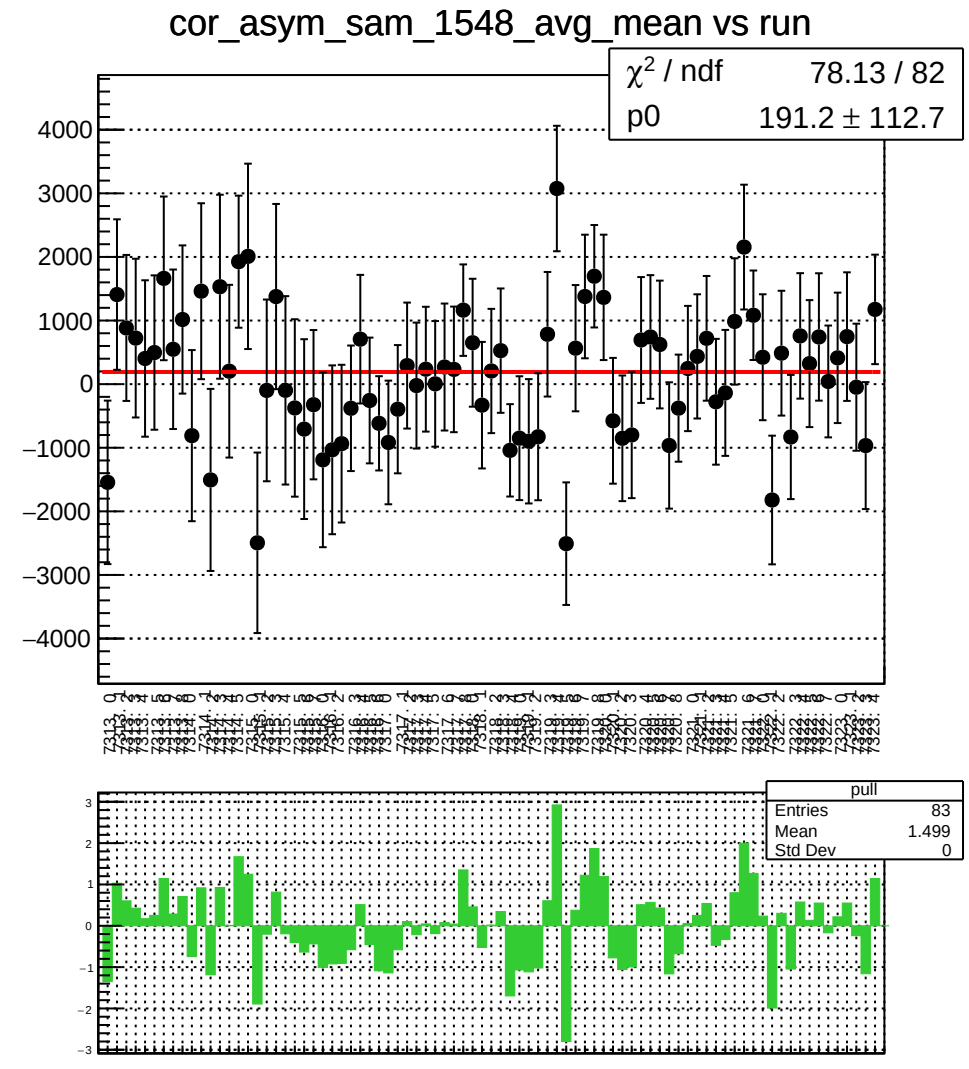

pull1D
Entries 83
Mean −0.01175
Std Dev 0.9702

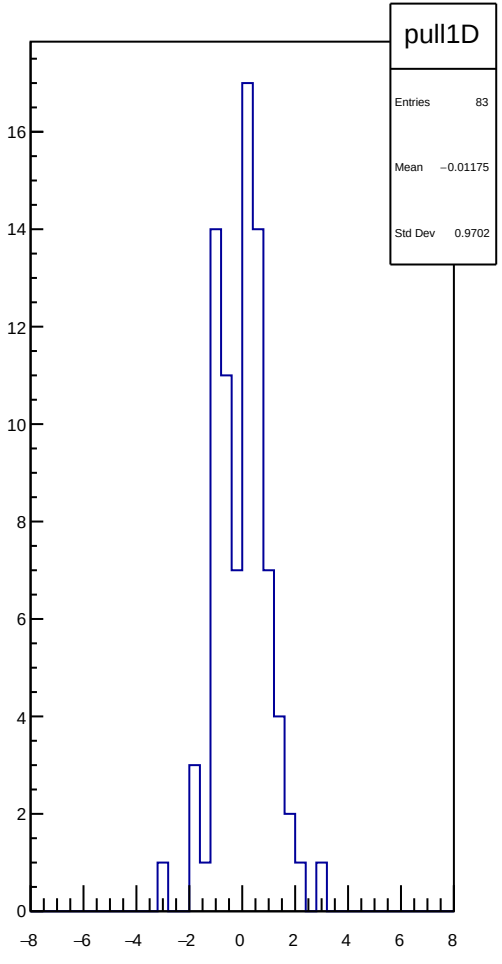

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2.863e+04 / 82
p0 100.2 ± 0.07968
140
130
120
110
100
90

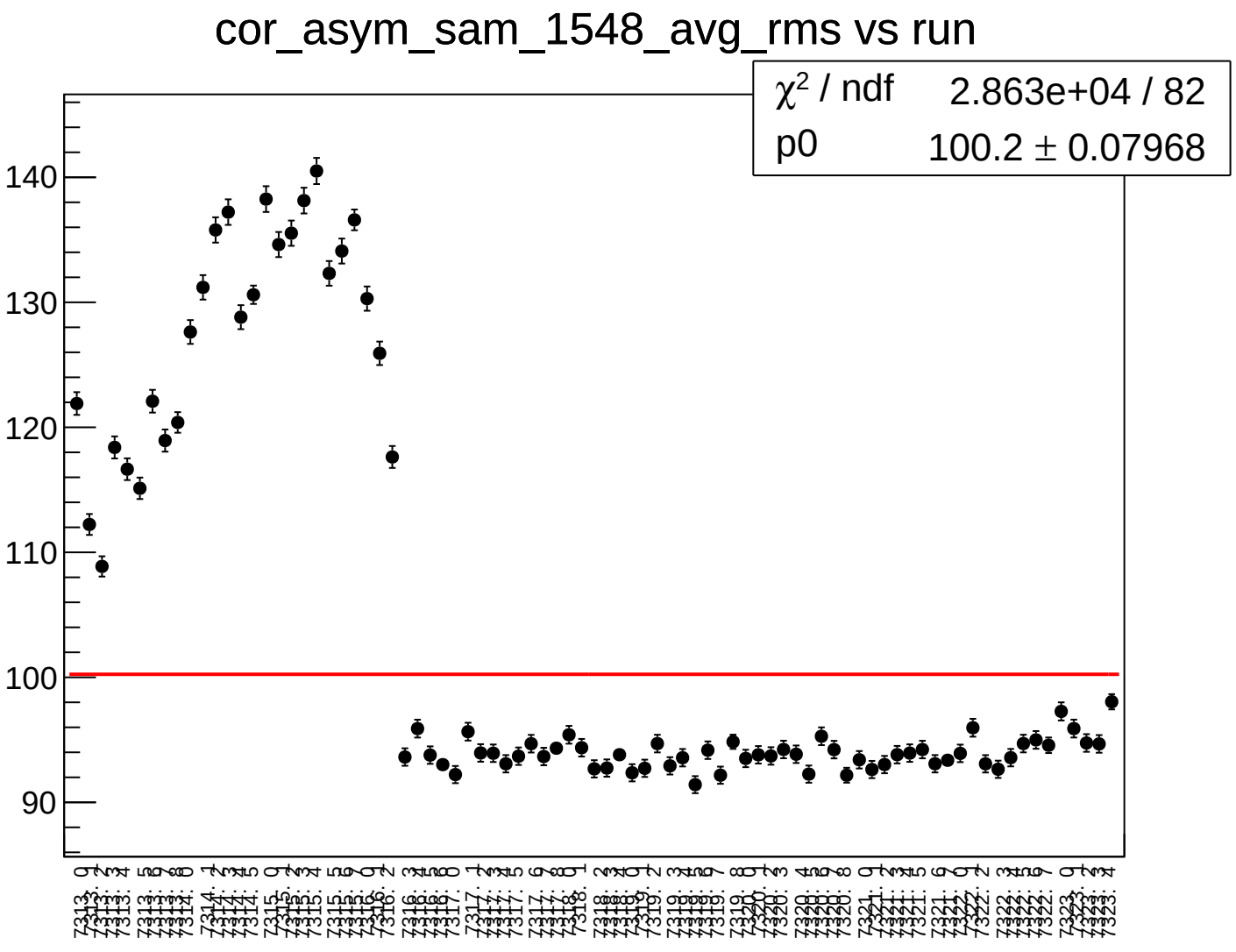

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 62.65 / 82
p0 29.01 ± 804.1
pull
Entries 83
Mean 80.57
Std Dev 27.41

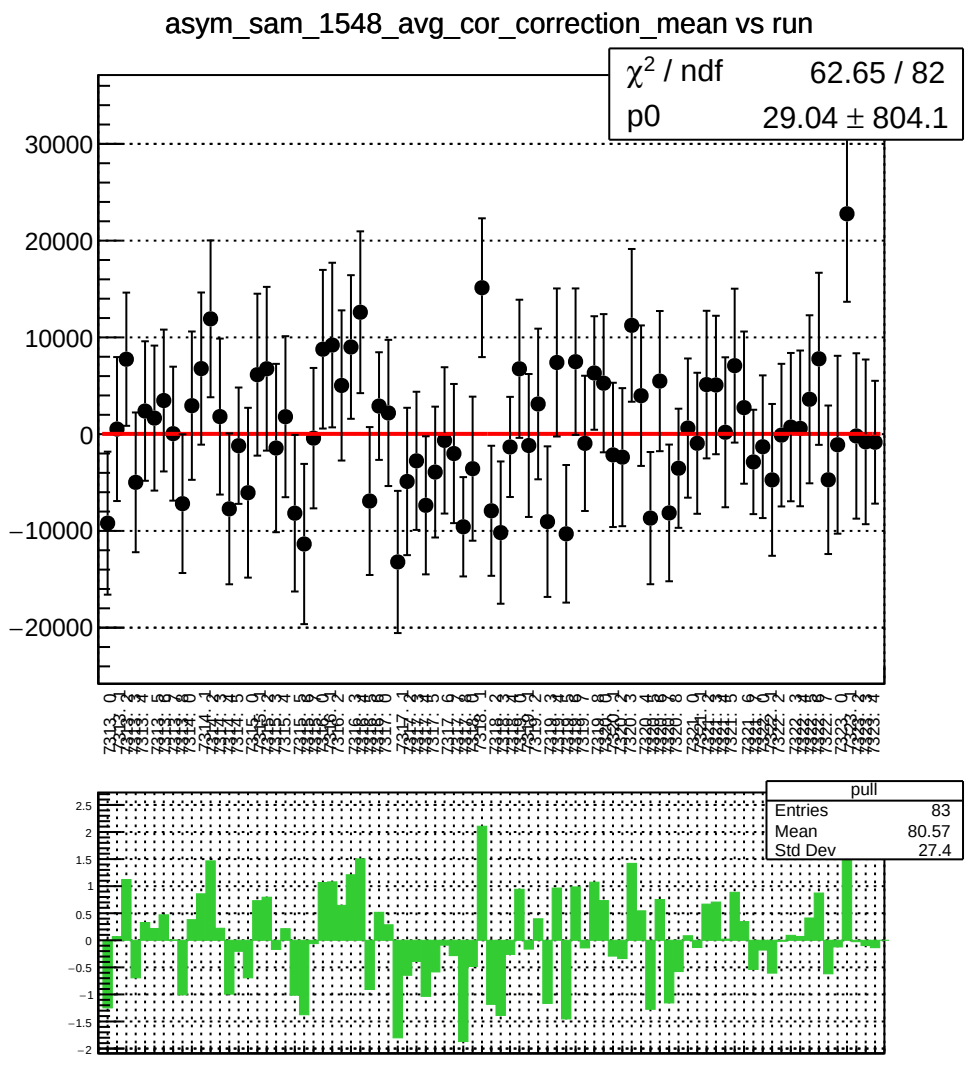

pull1D
Entries 83
Mean 0.0283
Std Dev 0.8683

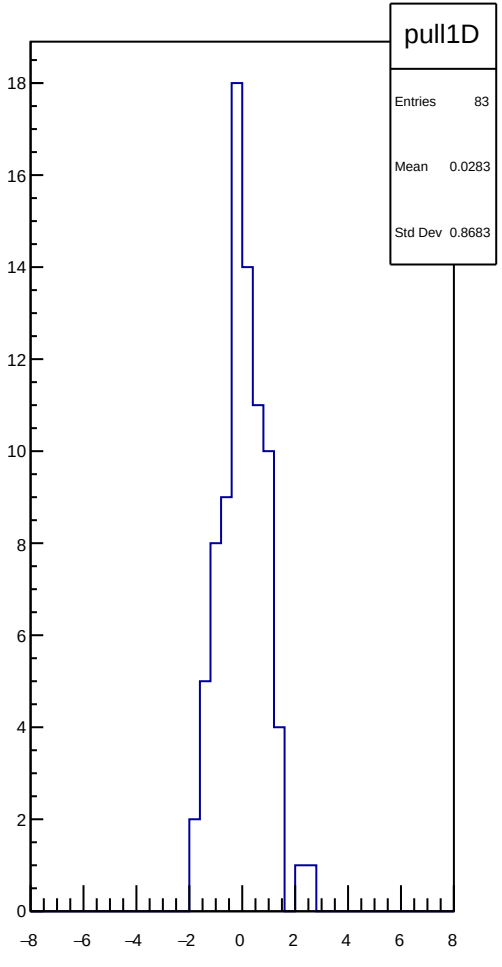

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 8322 / 82
p0 719.9 ± 0.5686
900
850
800
750
700
650

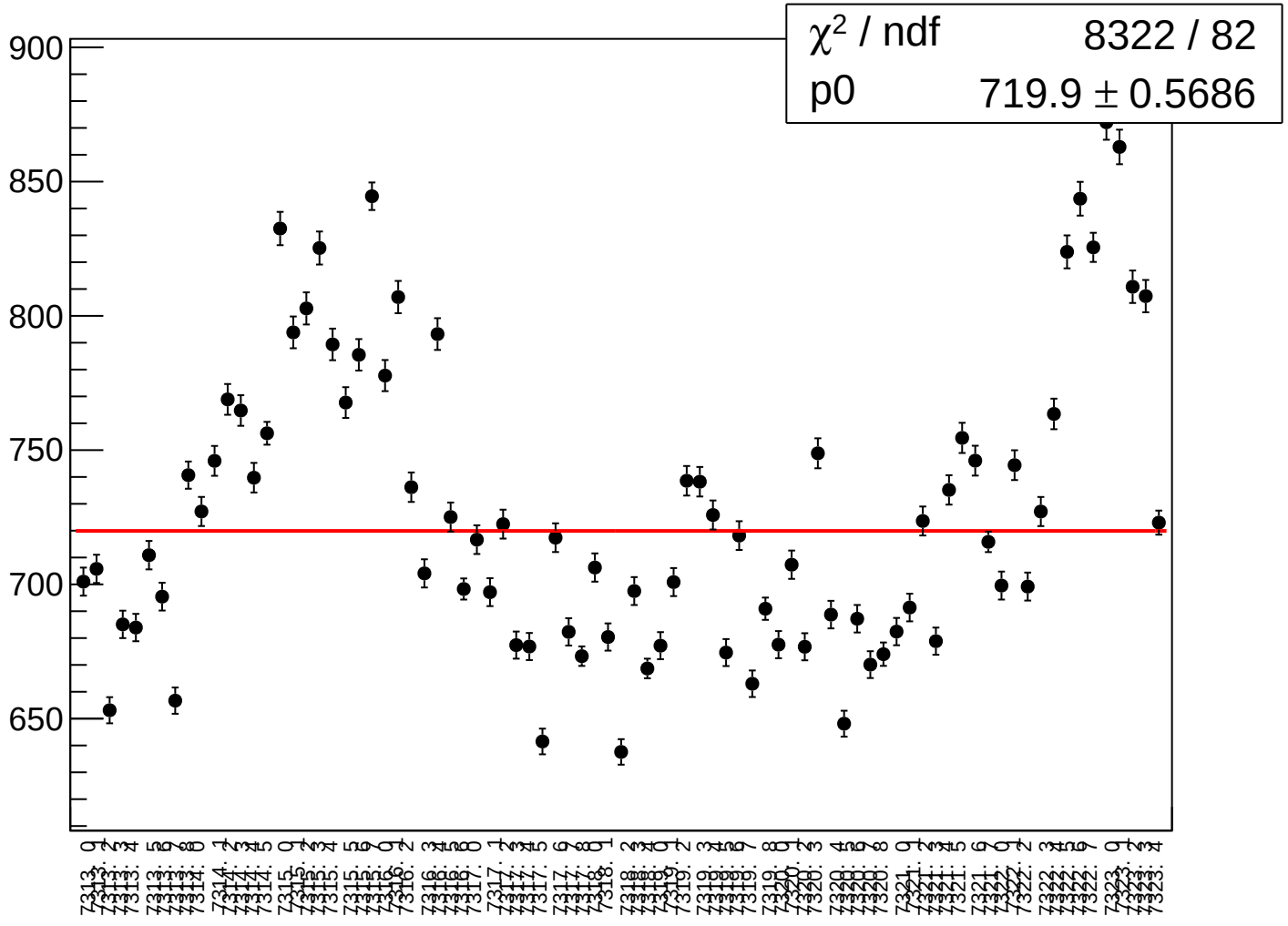

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.13 / 82
p0 191.2 ± 112.7
pull
Entries 83
Mean 1.499
Std Dev 0

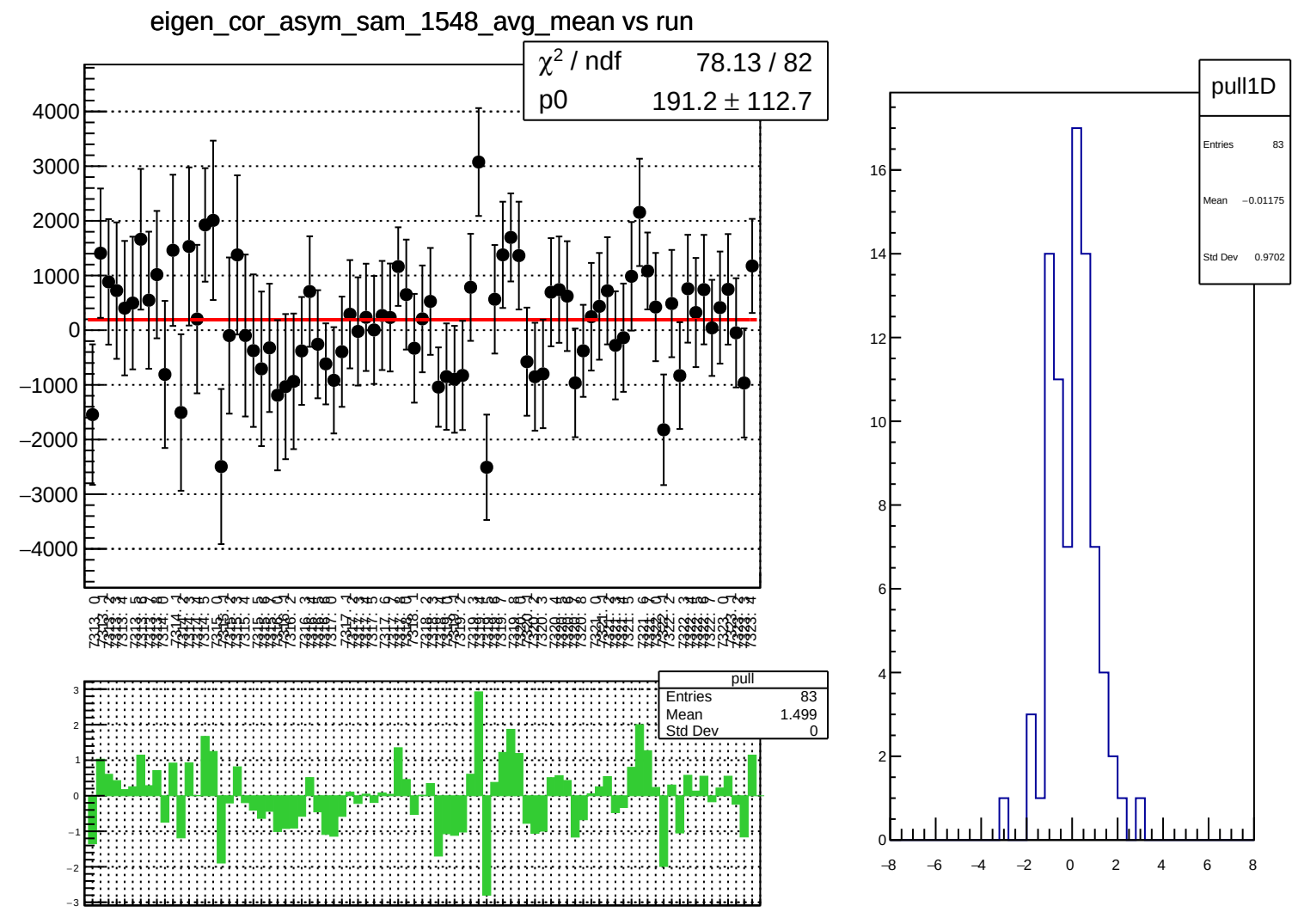

pull1D
Entries 83
Mean −0.01175
Std Dev 0.9702

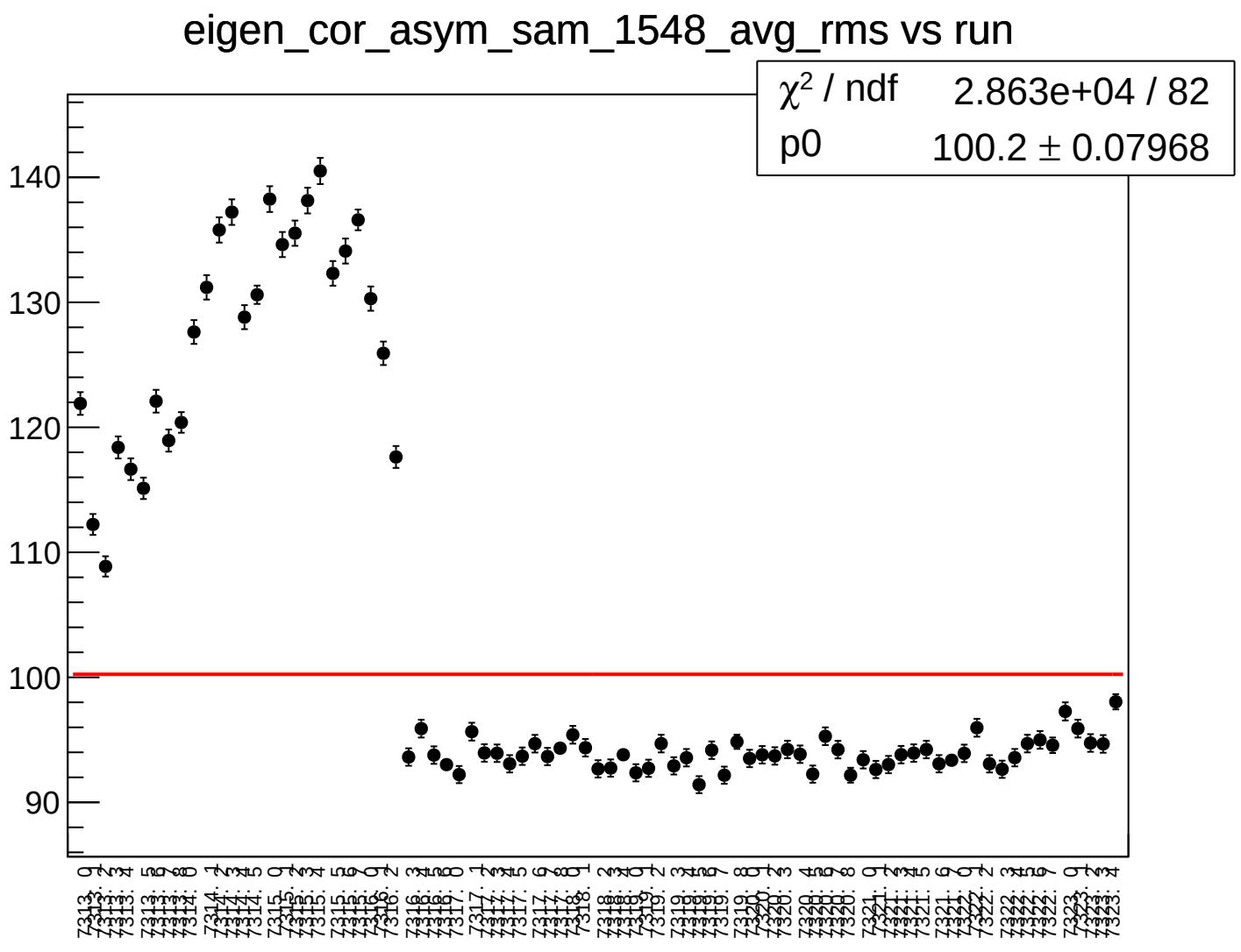

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.863e+04 / 82
p0 100.2 ± 0.07968
140
130
120
110
100
90

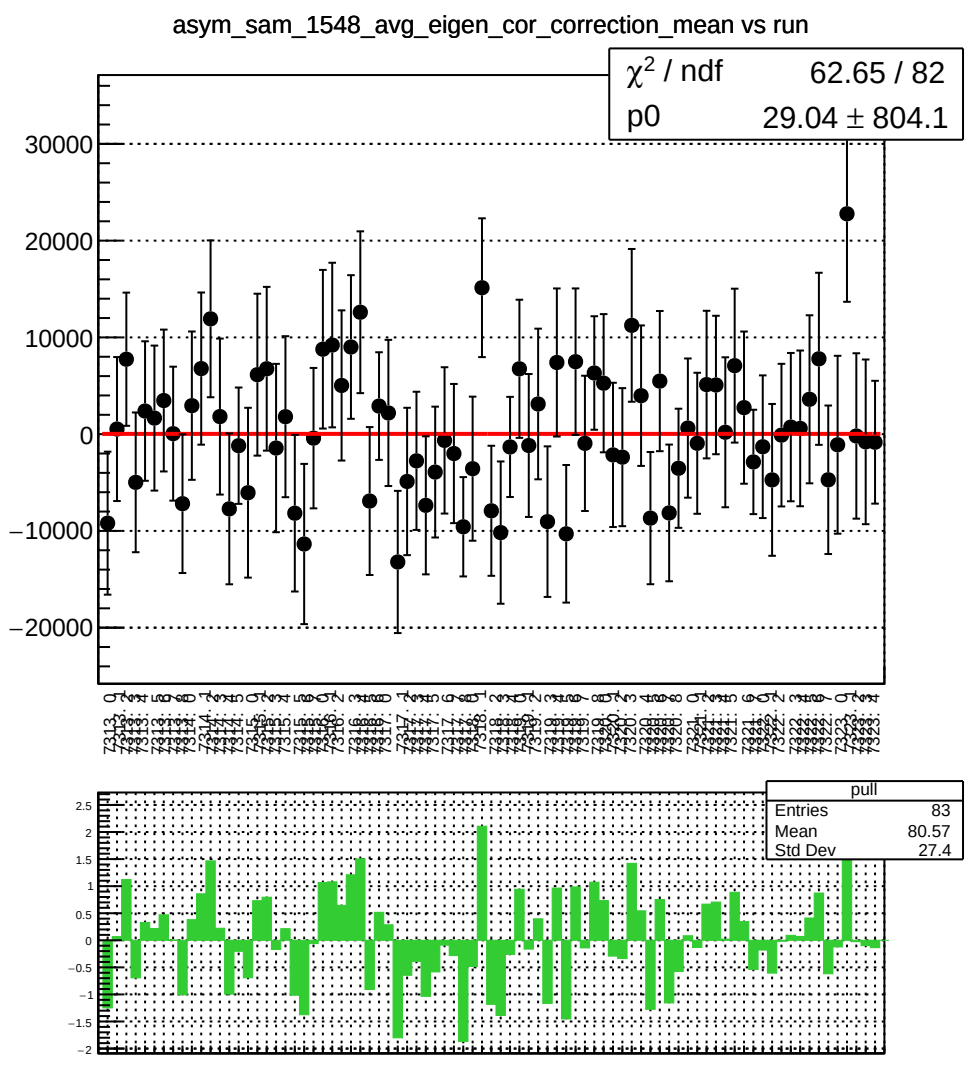

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 62.65 / 82
p0 29.04 ± 804.1
pull
Entries 83
Mean 80.57
Std Dev 27.4

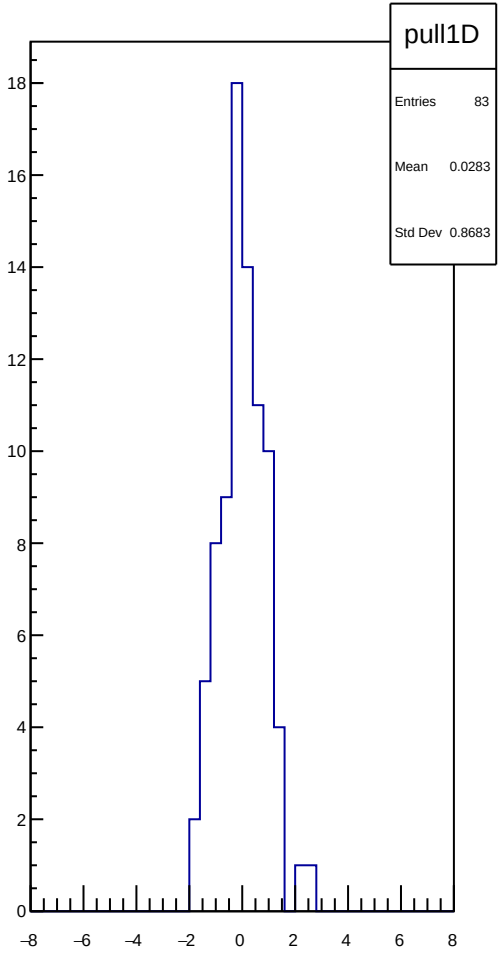

pull1D
Entries 83
Mean 0.0283
Std Dev 0.8683

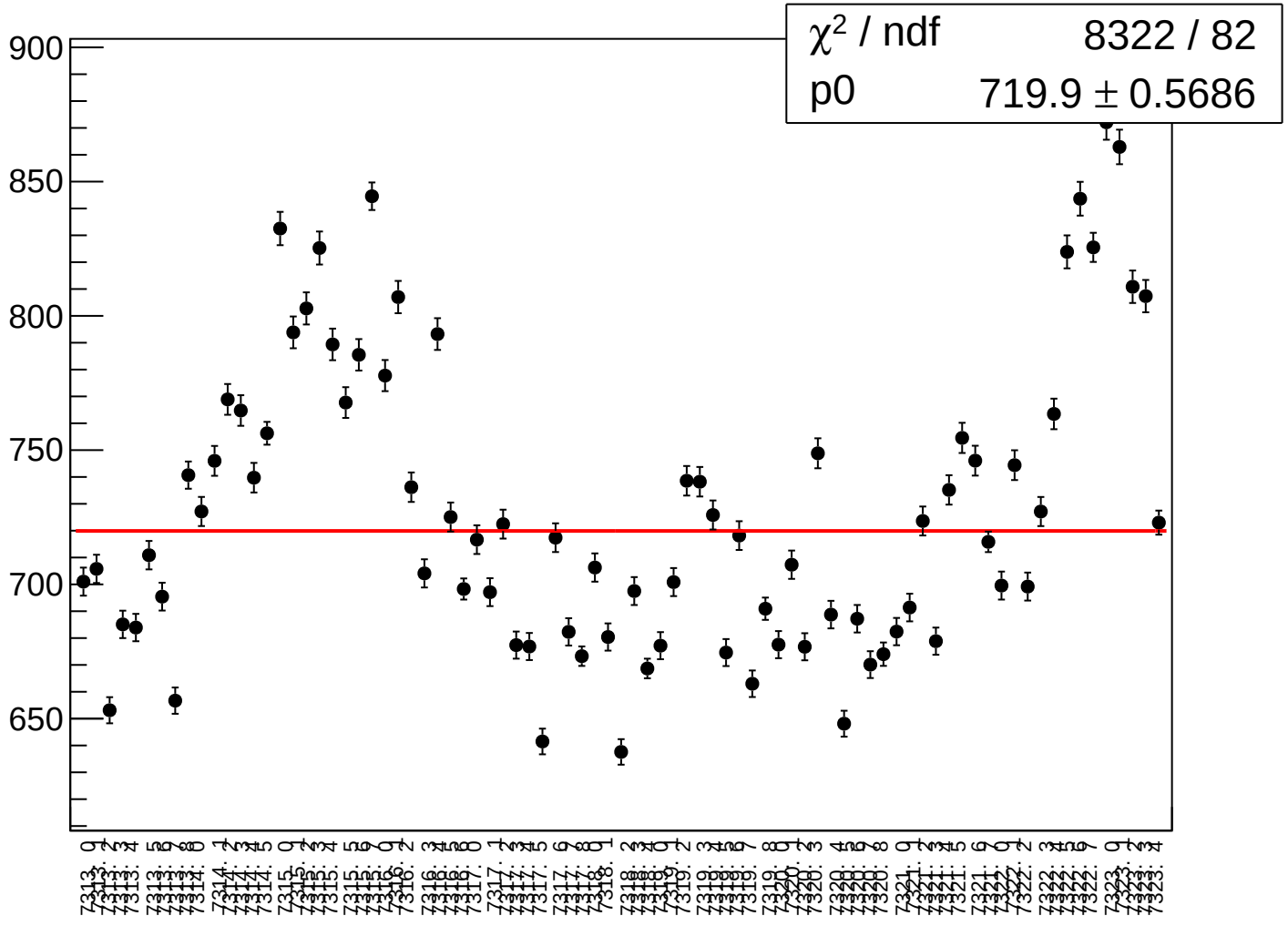

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 8322 / 82
p0 719.9 ± 0.5686
900
850
800
750
700
650

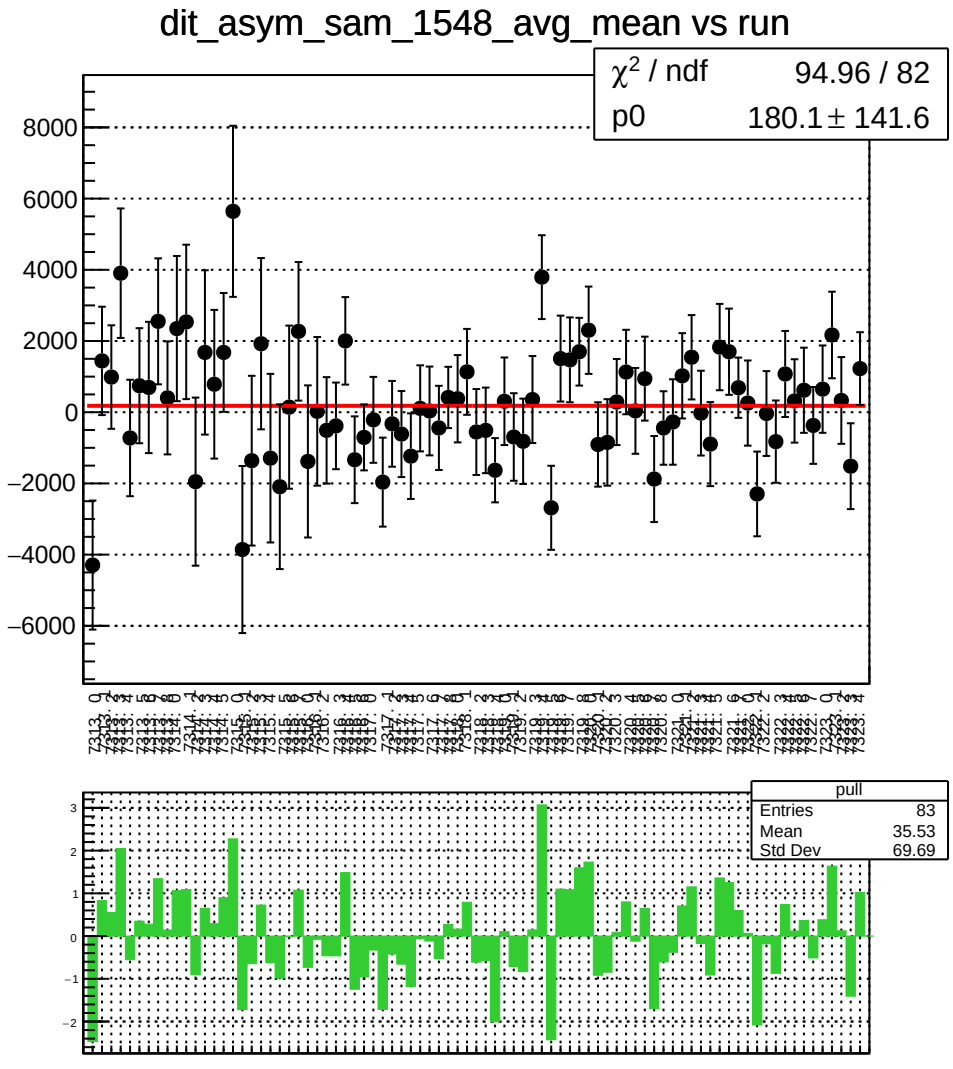

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 78.13 / 82
p0 191.2 ± 112.7
pull
Entries 83
Mean 1.499
Std Dev 0
pull1D
Entries 83
Mean −0.01175
Std Dev 0.9702

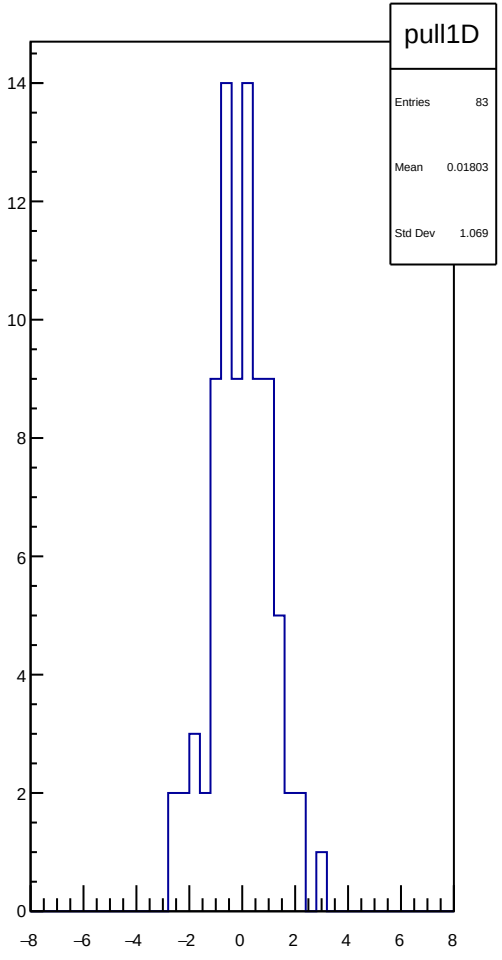

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.863e+04 / 82
p0 100.2 ± 0.07968
140
130
120
110
100
90

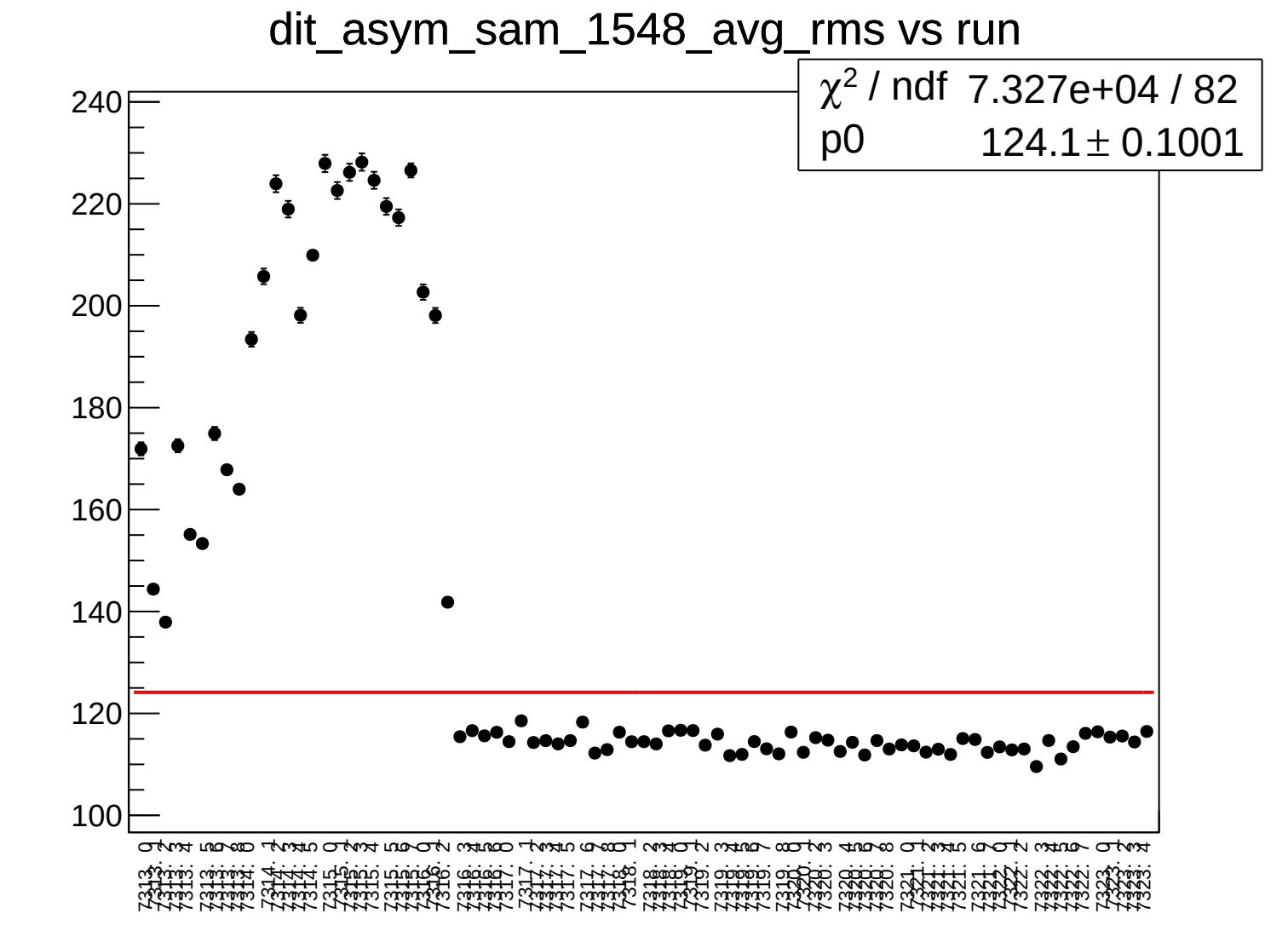

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 62.65 / 82
p0 29.04 ± 804.1
pull
Entries 83
Mean 80.57
Std Dev 27.4

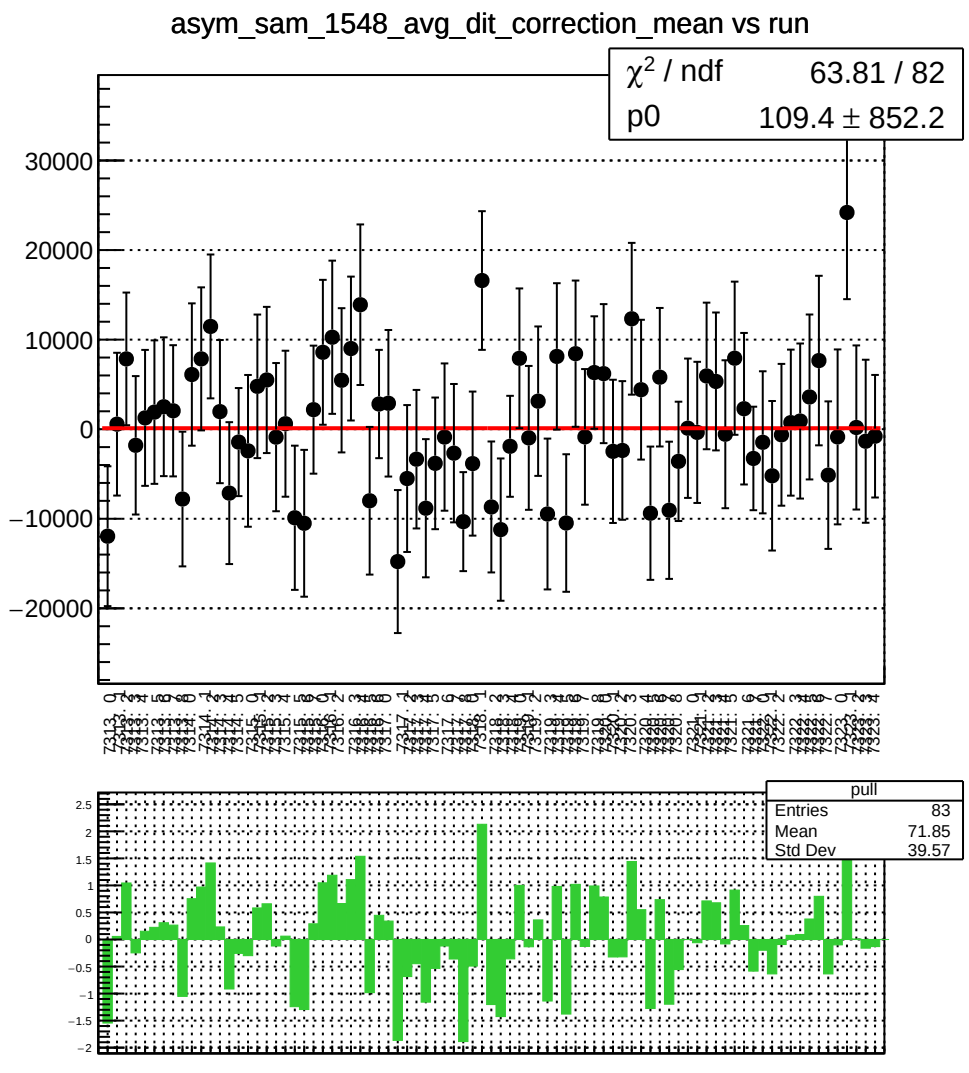

pull1D
Entries 83
Mean 0.0283
Std Dev 0.8683

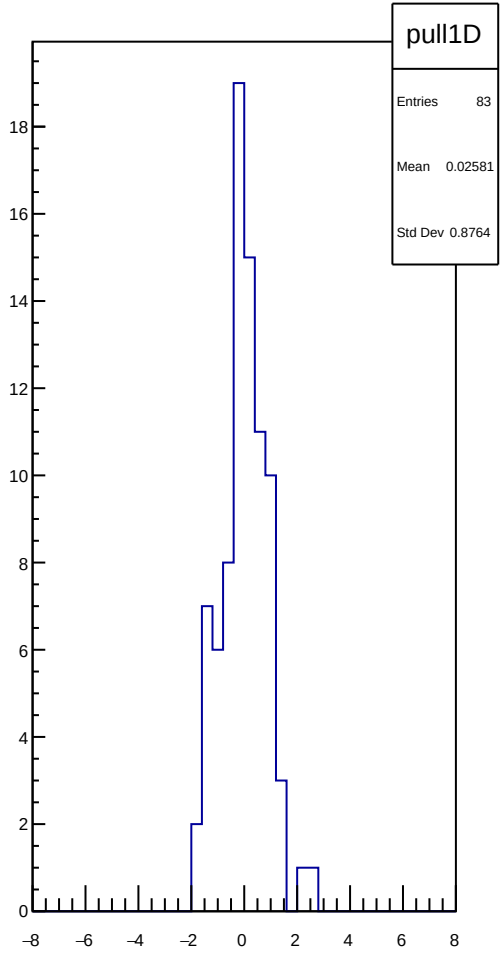

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 8322 / 82
p0 719.9 ± 0.5686
900
850
800
750
700
650

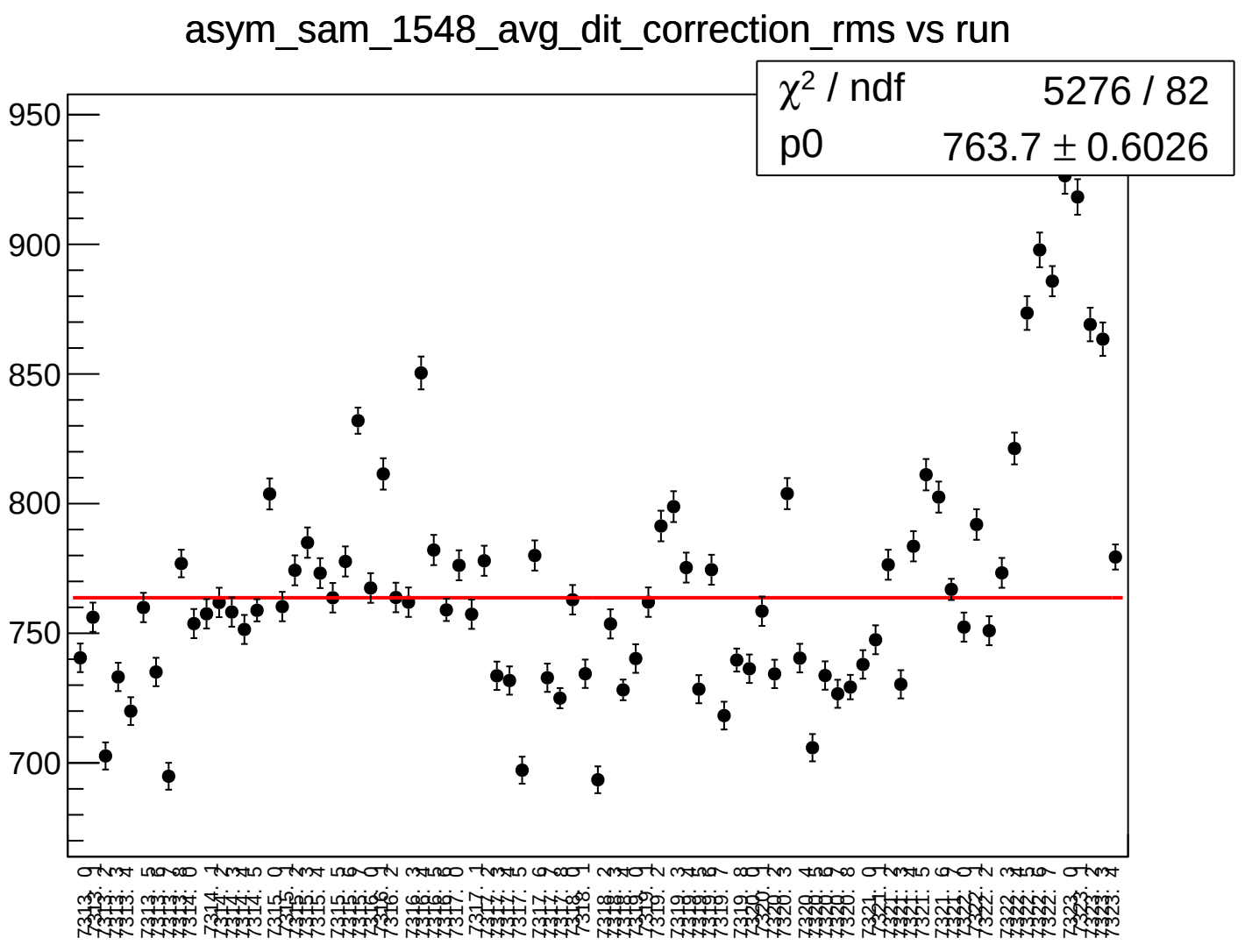

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.96 / 82
p0 180.1 ± 141.6
pull
Entries 83
Mean 35.53
Std Dev 69.69

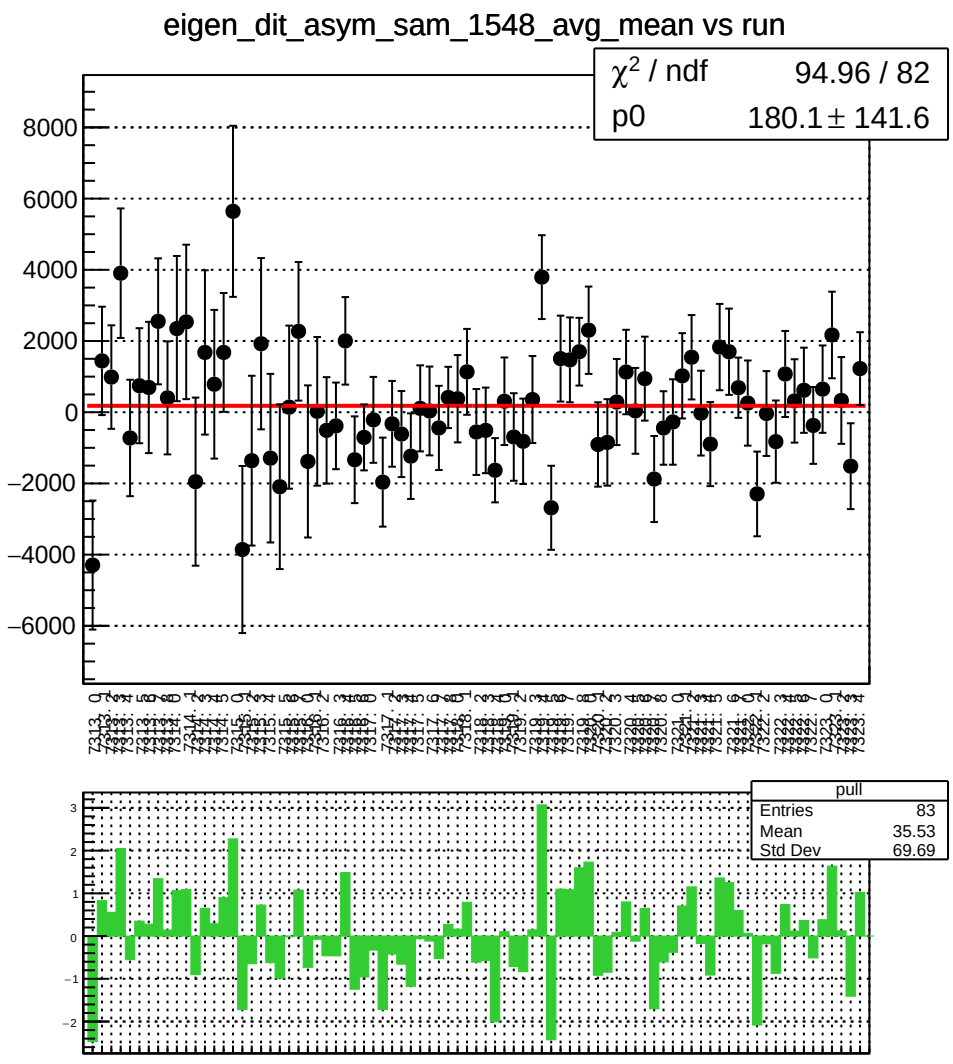

pull1D
Entries 83
Mean 0.01803
Std Dev 1.069

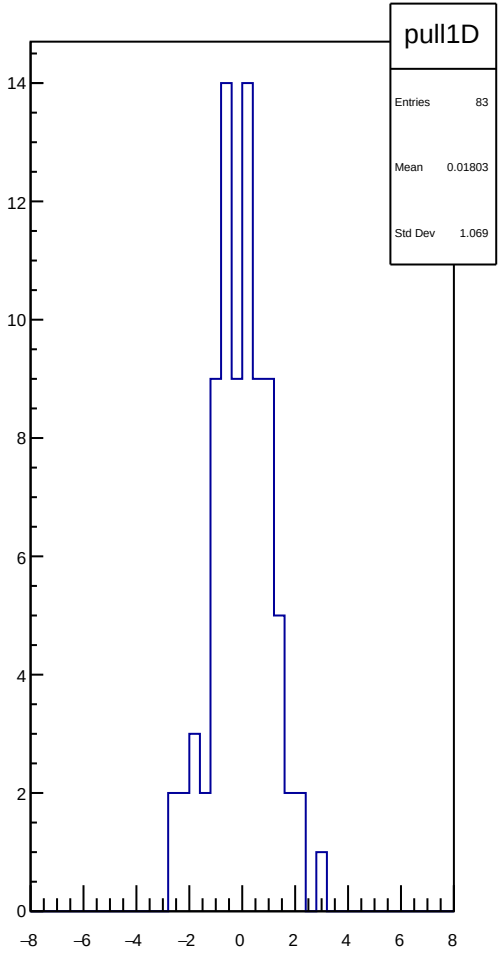

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 7.327e+04 / 82
p0 124.1 ± 0.1001
240
220
200
180
160
140
120
100

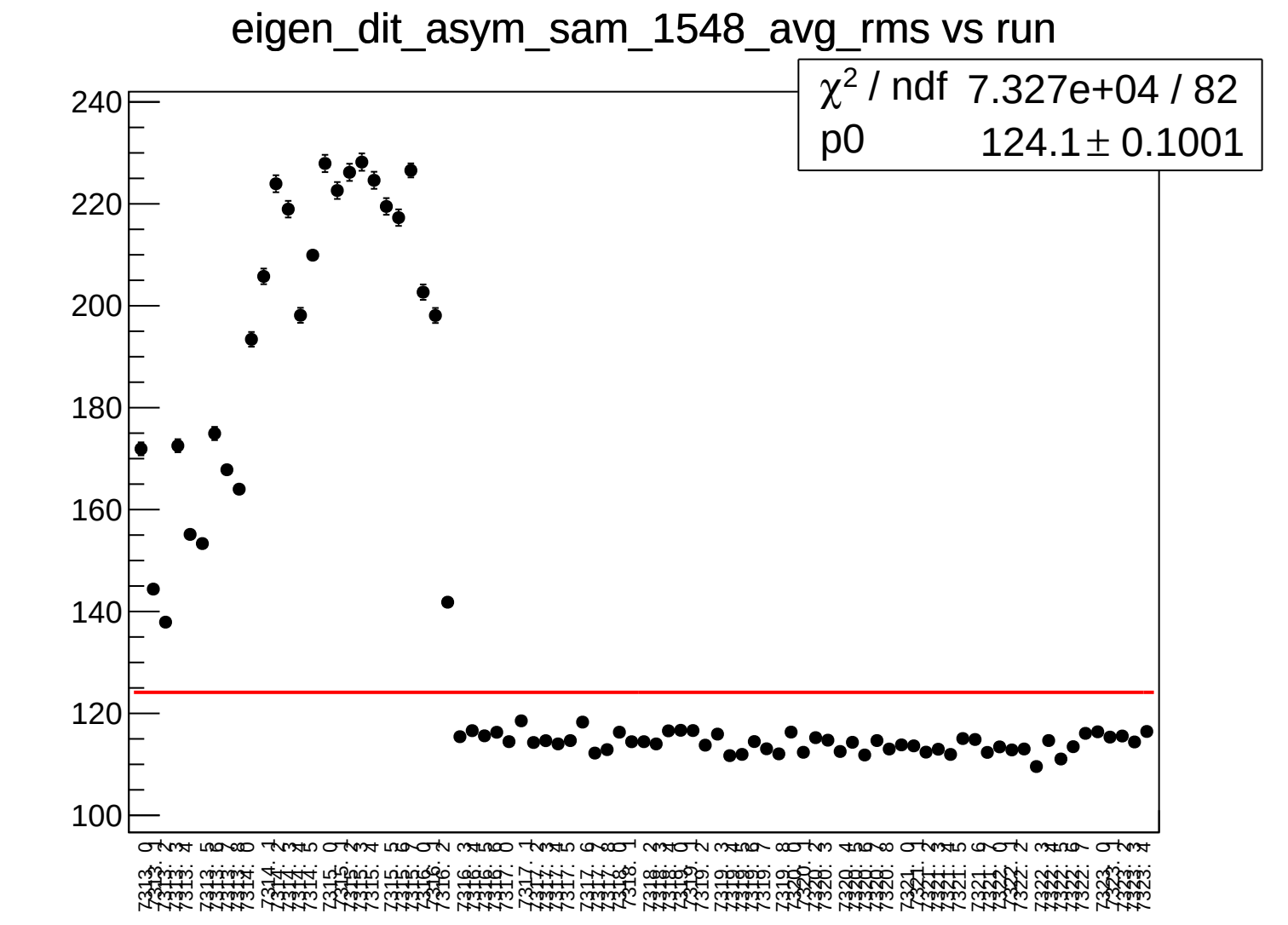

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 63.81 / 82
p0 109.4 ± 852.2
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 71.85
Std Dev 39.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

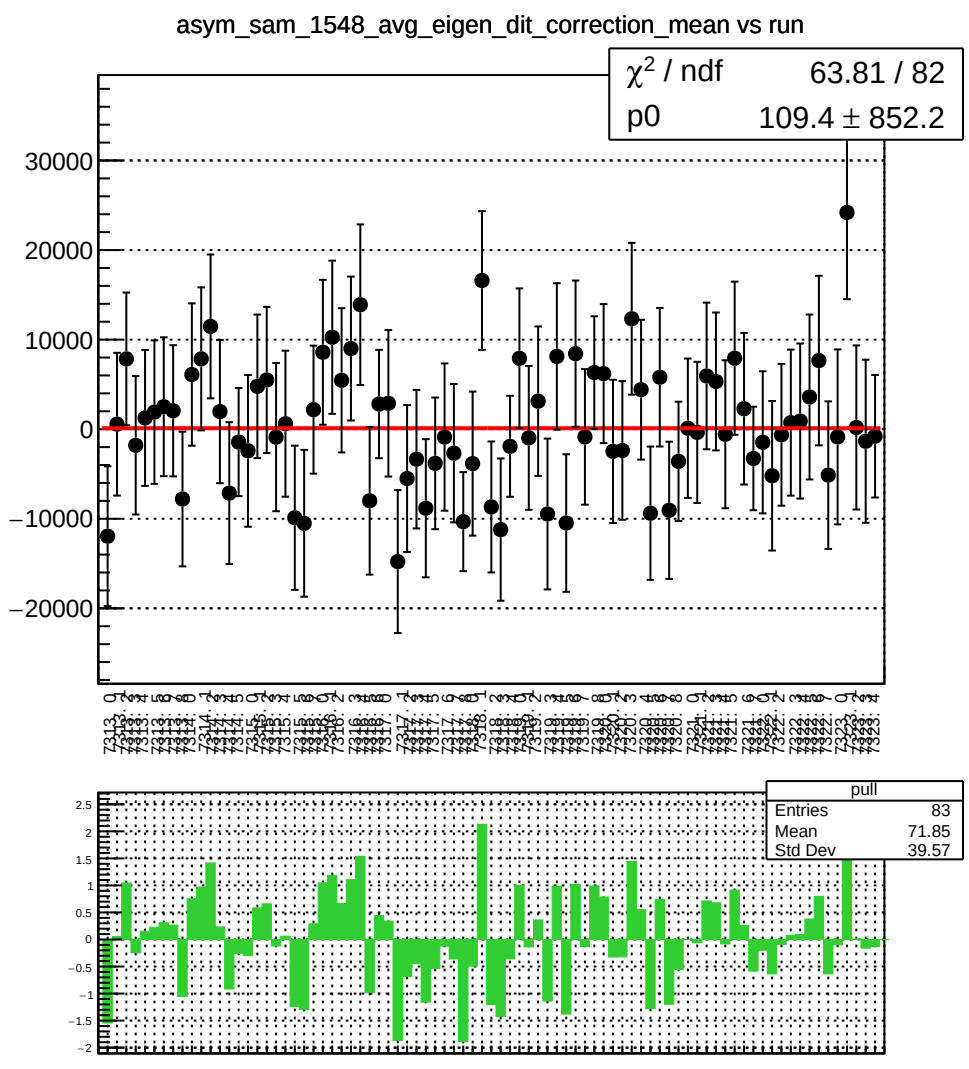

pull1D
Entries 83
Mean 0.02581
Std Dev 0.8764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

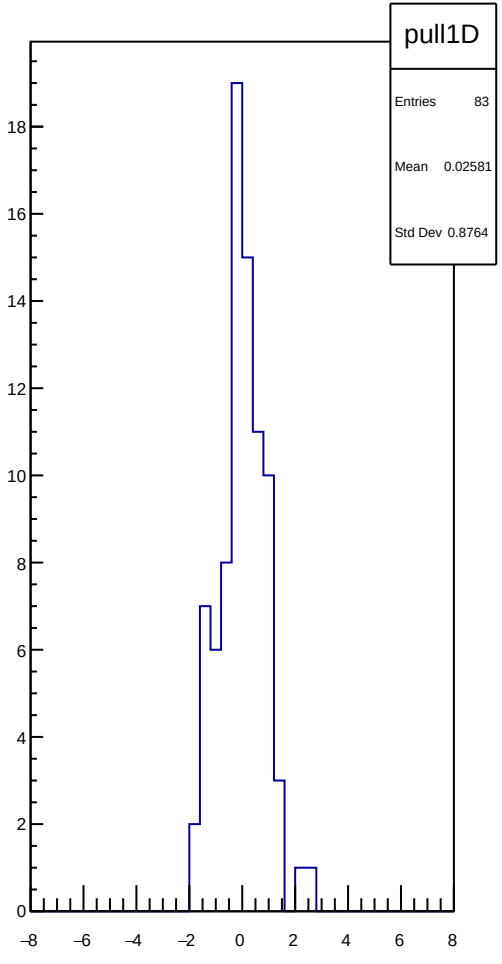

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 5276 / 82
p0 763.7 ± 0.6026
950
900
850
800
750
700

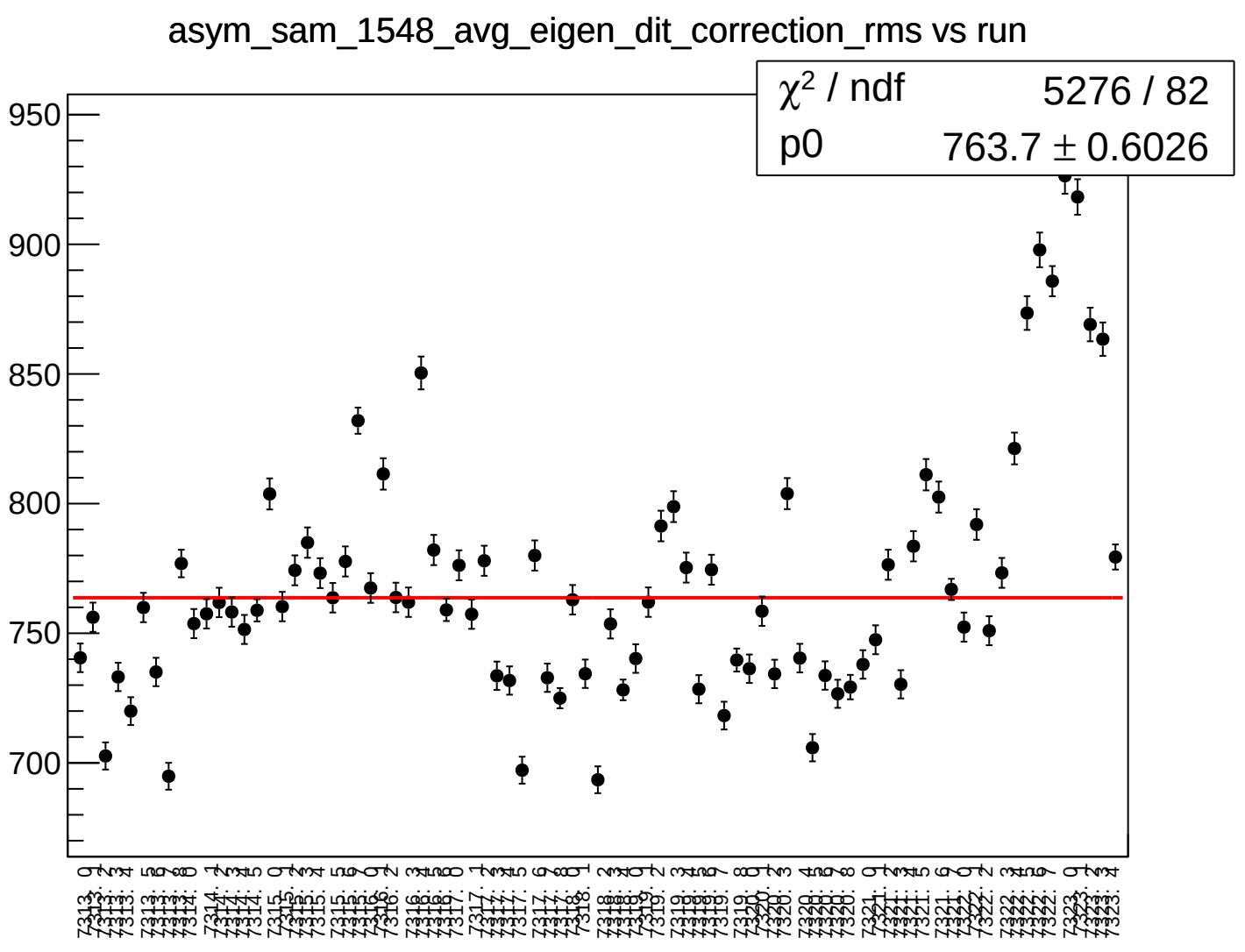

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.96 / 82
p0 180.1 ± 141.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 35.53
Std Dev 69.69
3
2
1
0
−1
−2

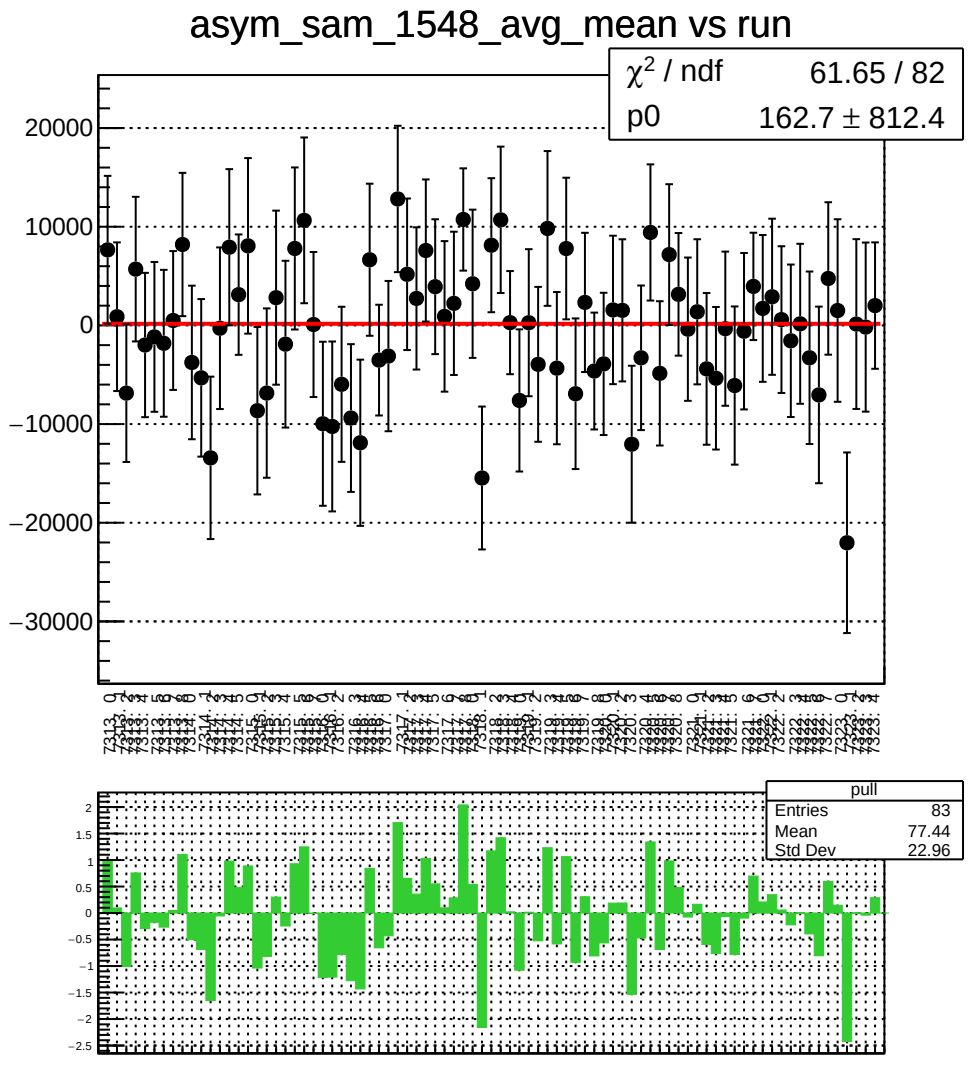

pull1D
Entries 83
Mean 0.01803
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

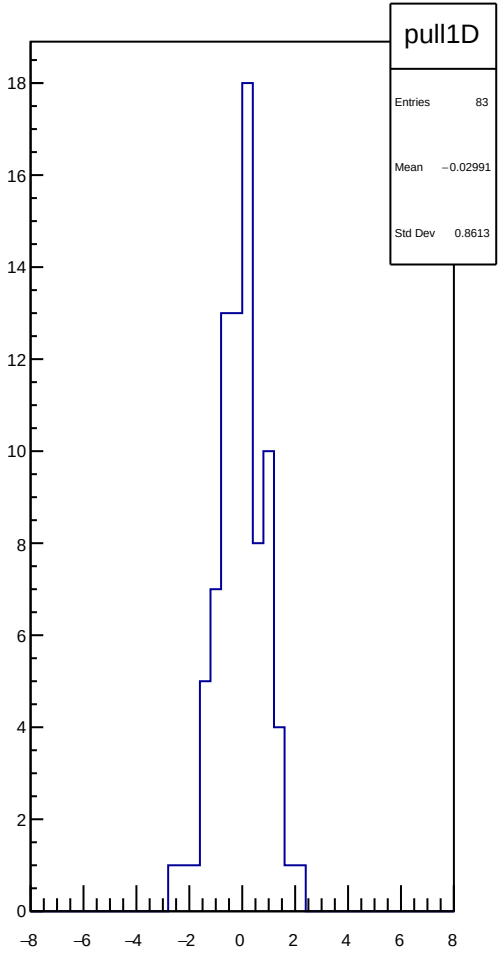

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 7.327e+04 / 82
p0 124.1 ± 0.1001
240
220
200
180
160
140
120
100

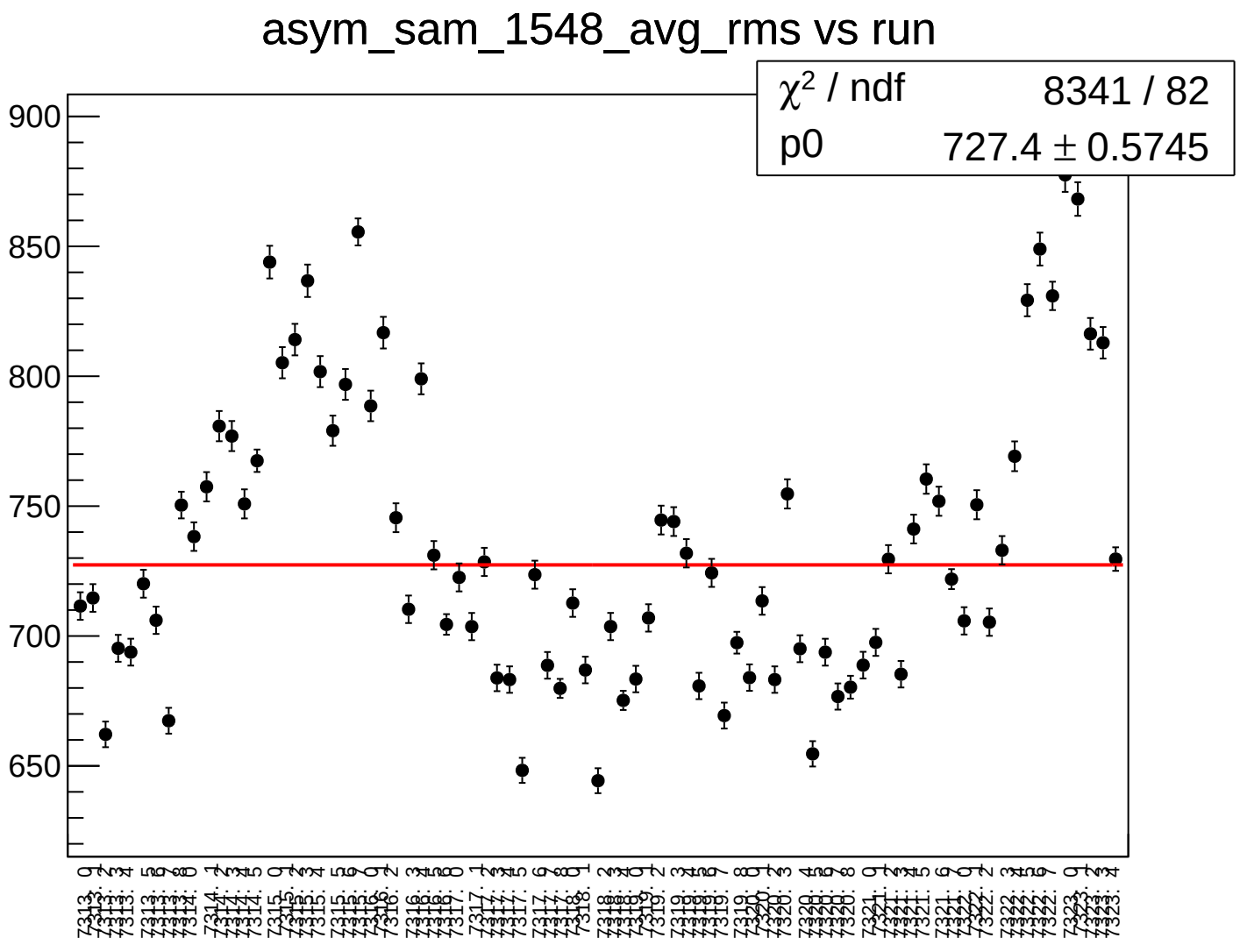

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 63.81 / 82
p0 109.4 ± 852.2
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 71.85
Std Dev 39.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

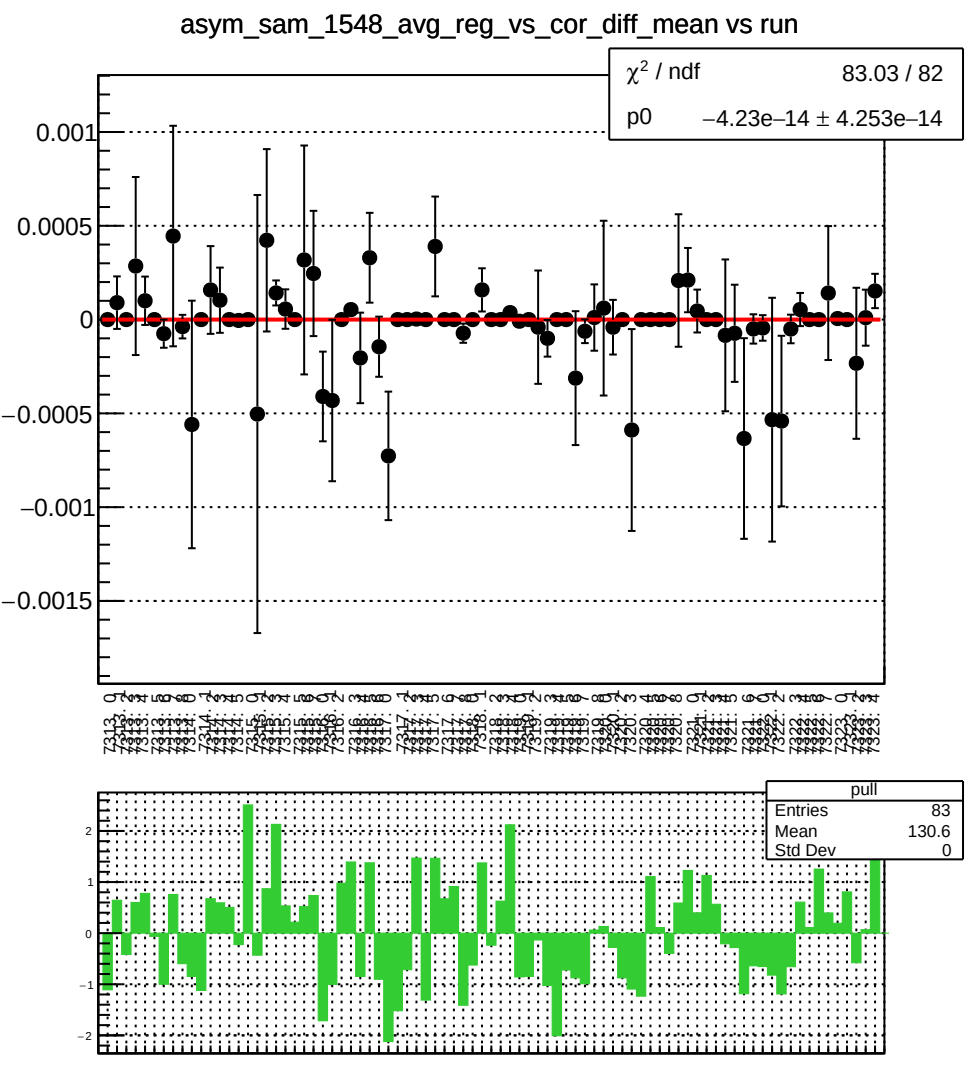

pull1D
Entries 83
Mean 0.02581
Std Dev 0.8764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

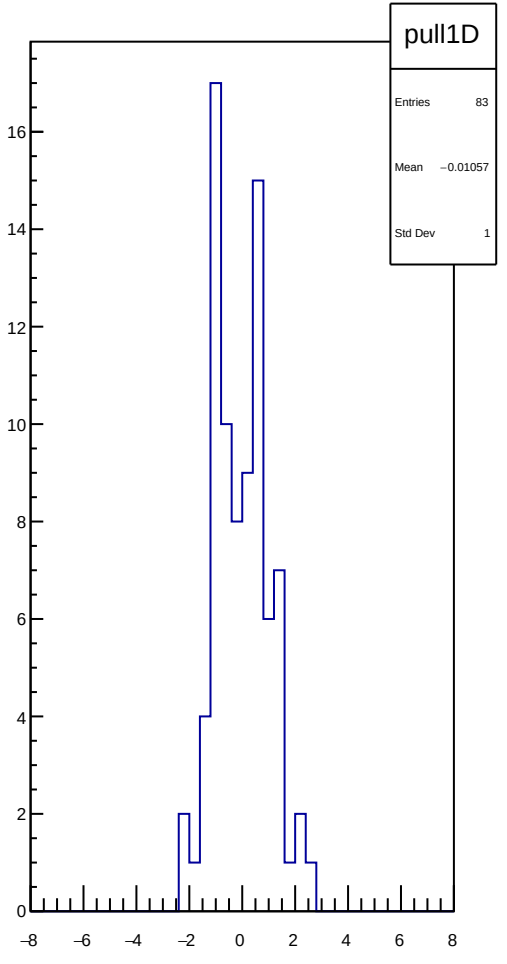

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 5276 / 82
p0 763.7 ± 0.6026
950
900
850
800
750
700

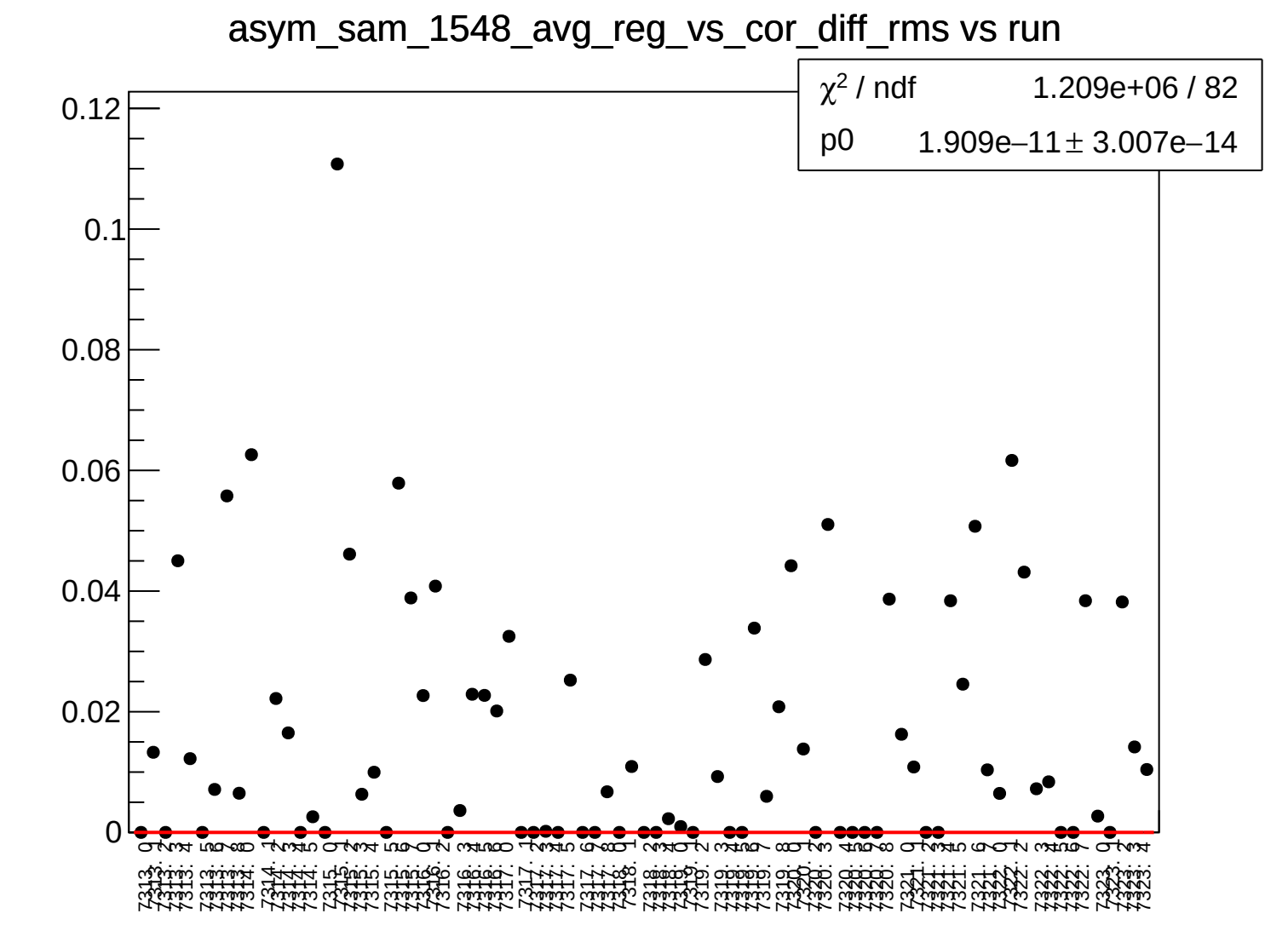

asym_sam_1548_avg_mean vs run
χ² / ndf 61.65 / 82
p0 162.7 ± 812.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 77.44
Std Dev 22.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

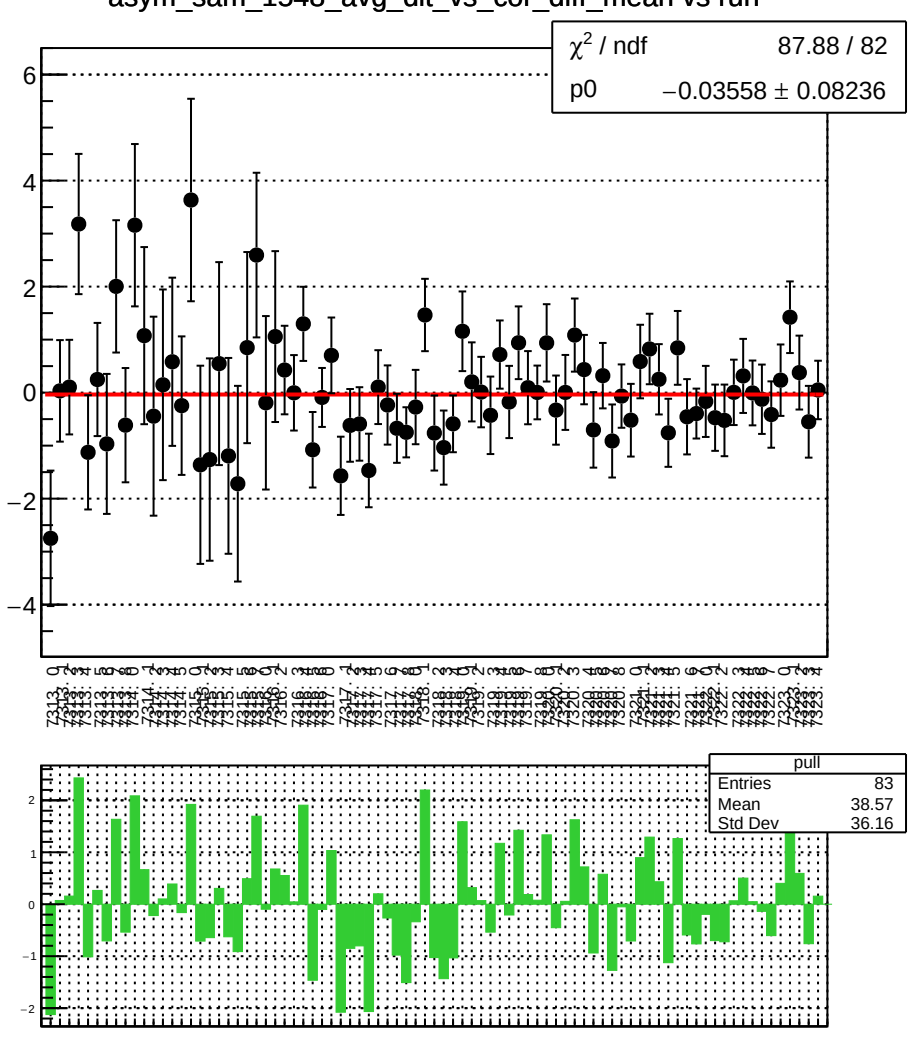

pull1D
Entries 83
Mean −0.02991
Std Dev 0.8613
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

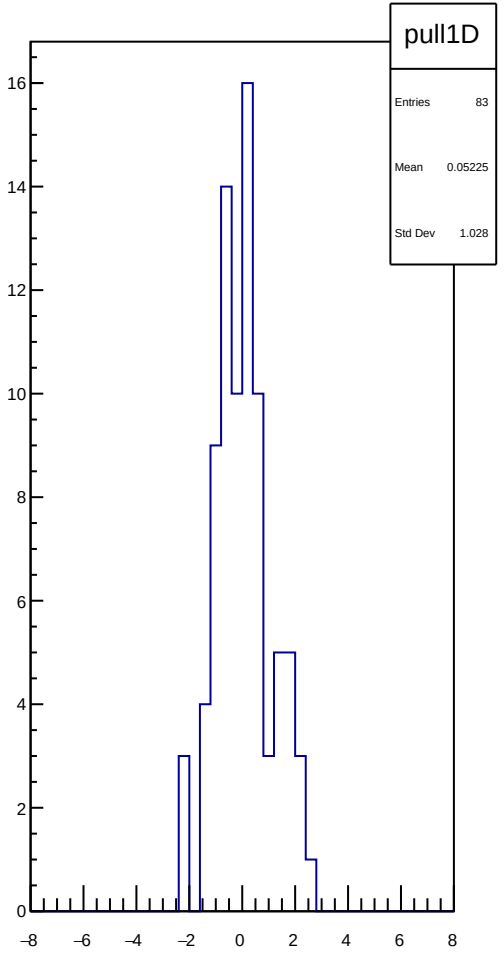

asym_sam_1548_avg_rms vs run
χ² / ndf 8341 / 82
p0 727.4 ± 0.5745
900
850
800
750
700
650

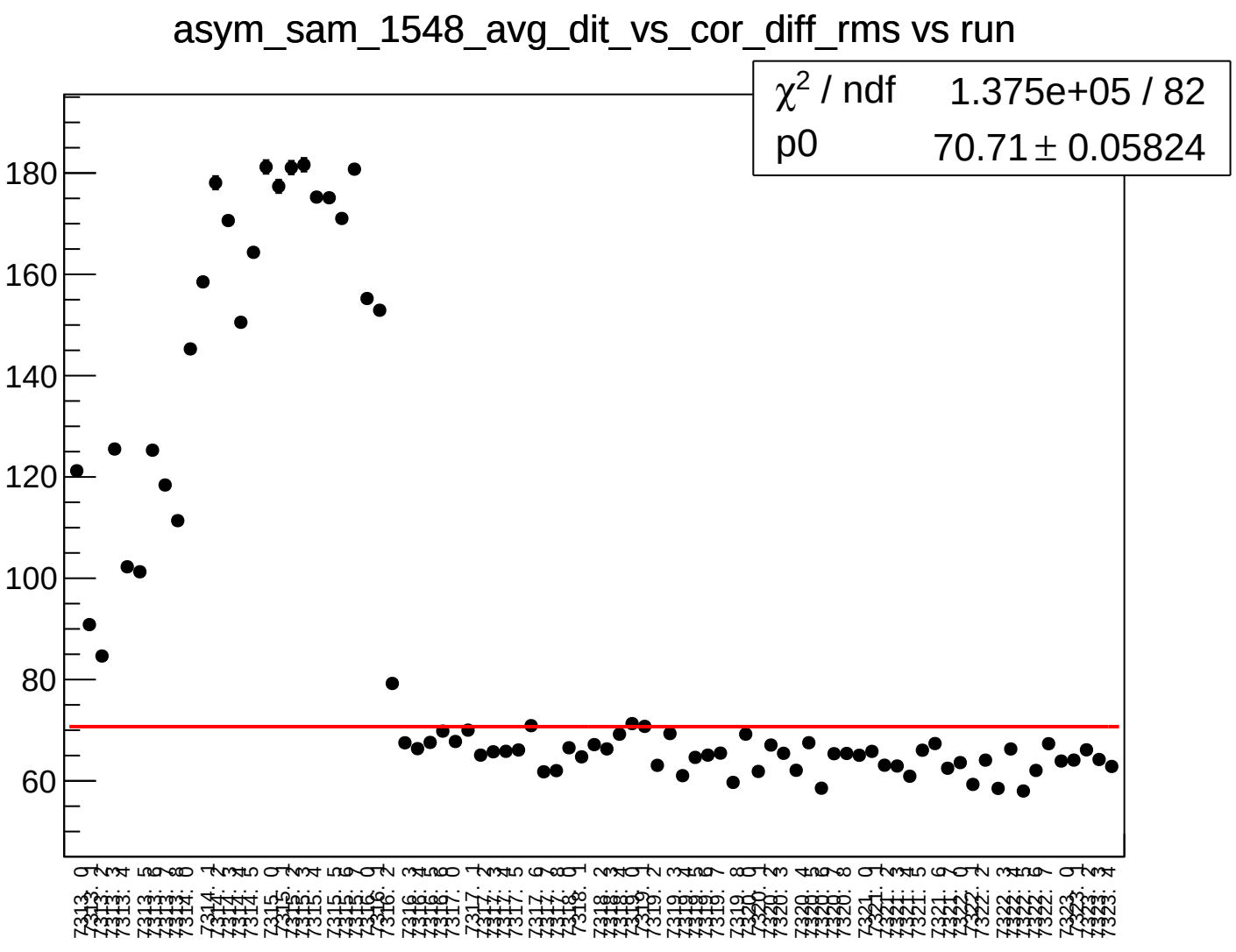

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 82
p0 −4.23e−14 ± 4.253e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 83
Mean 130.6
Std Dev 0
2
1
0
−1
−2

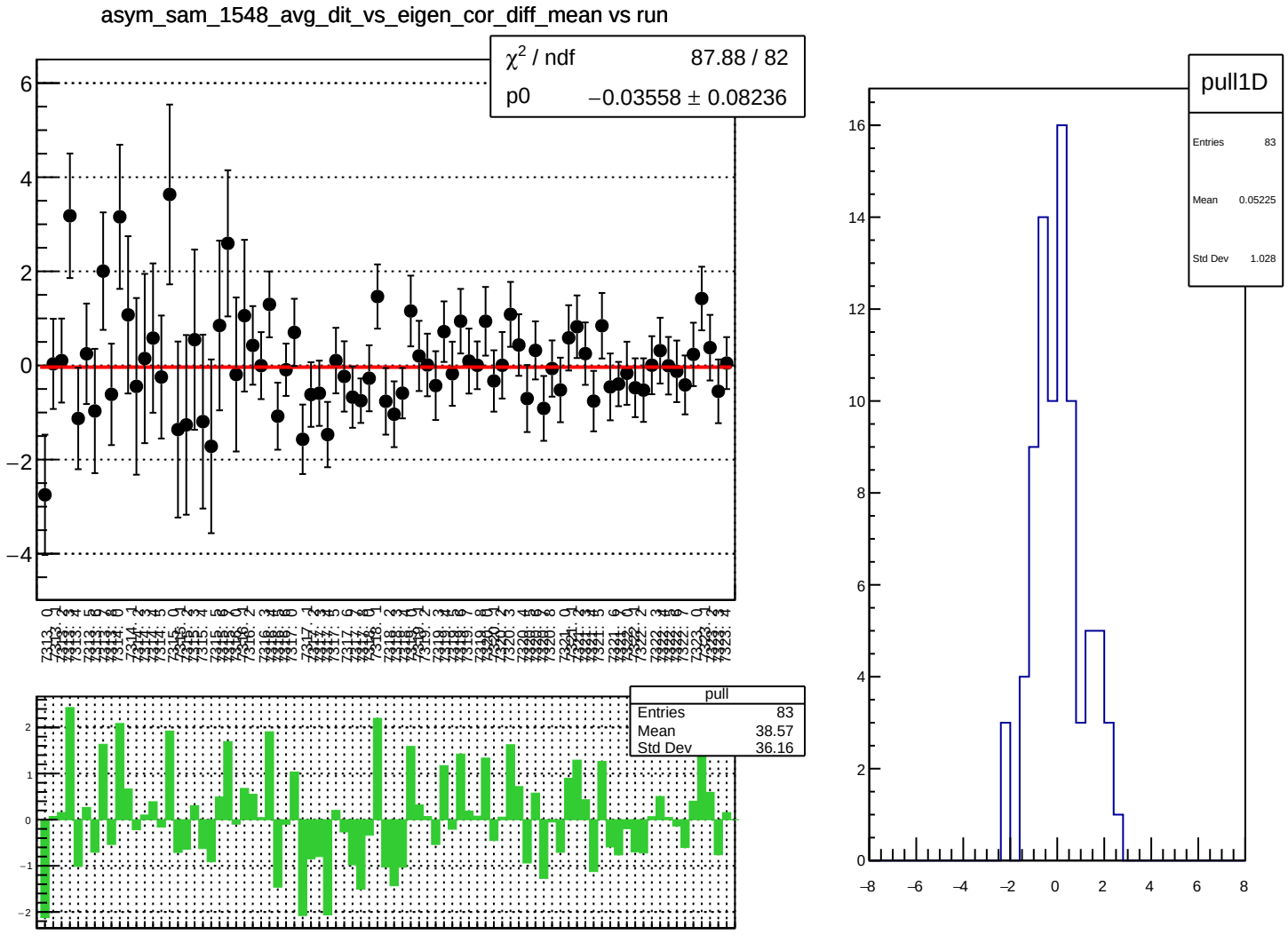

pull1D
Entries 83
Mean −0.01057
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

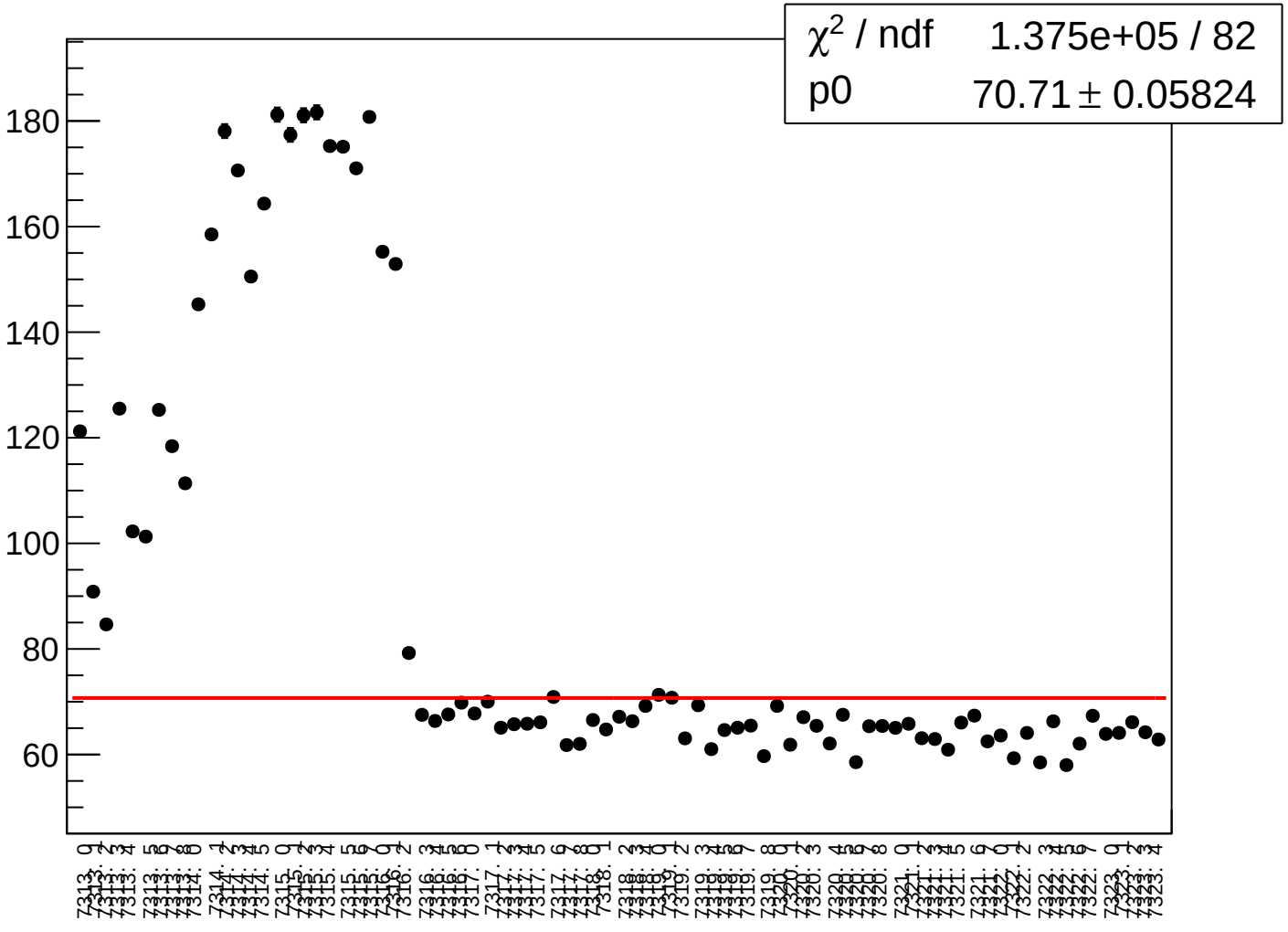

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 82
p0 1.909e−11 ± 3.007e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

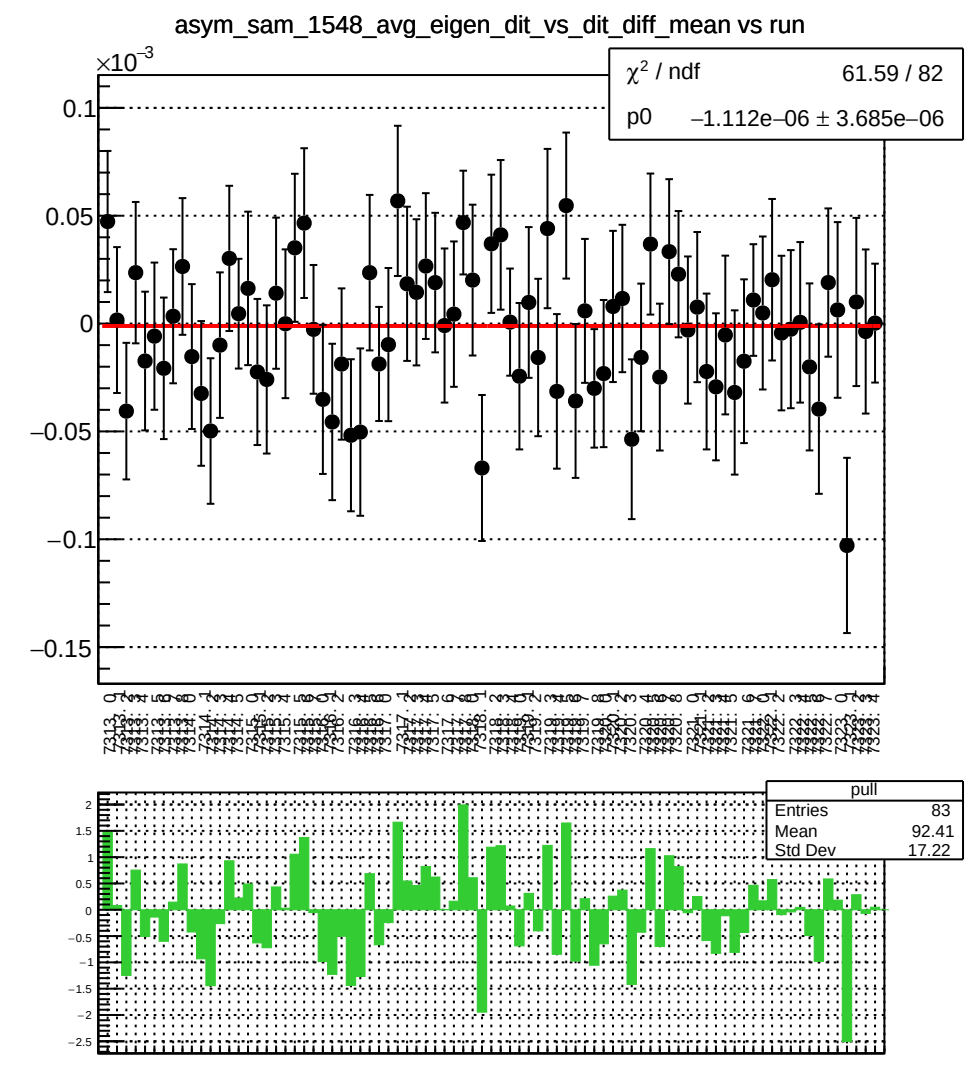

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 82
p0 −0.03558 ± 0.08236
pull
Entries 83
Mean 38.57
Std Dev 36.16

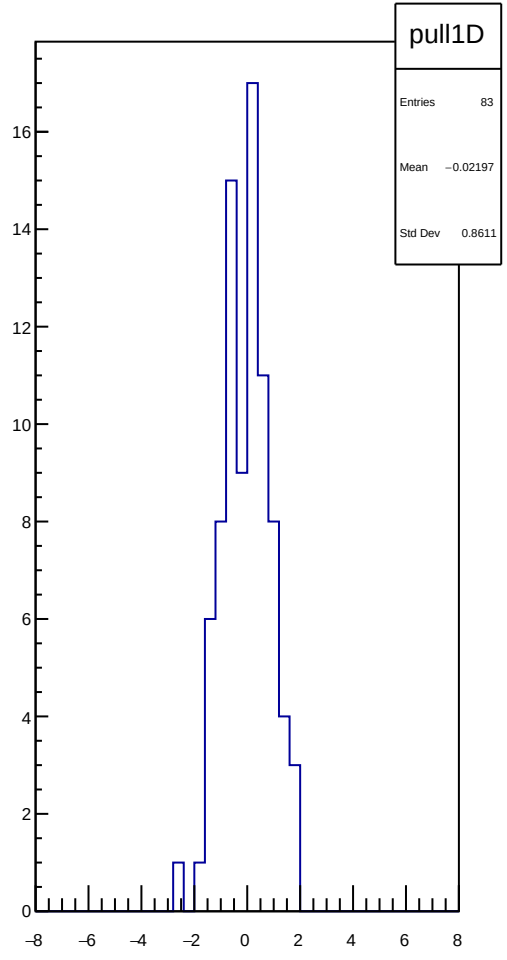

pull1D
Entries 83
Mean 0.05225
Std Dev 1.028

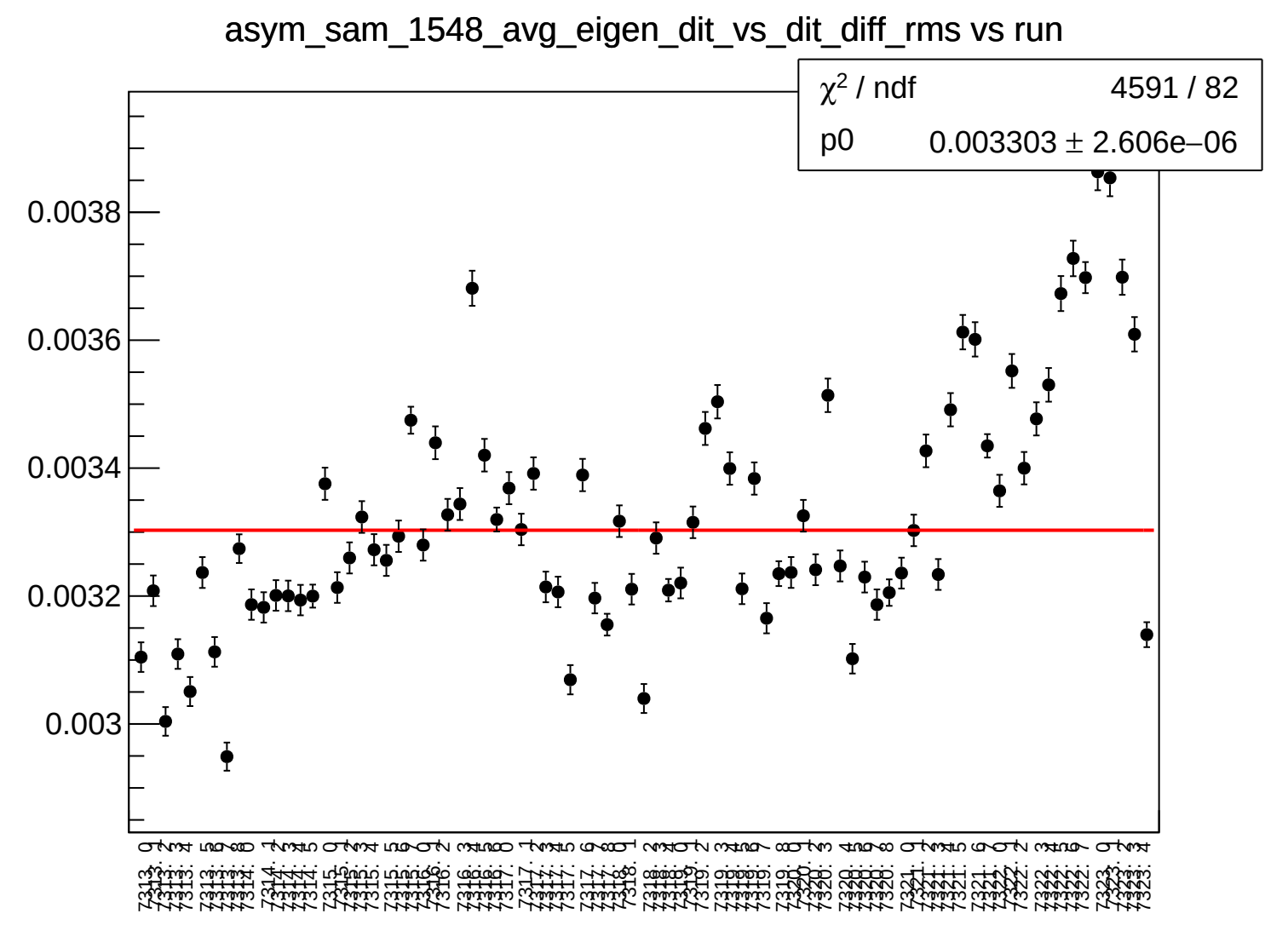

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 82
p0 70.71 ± 0.05824
180
160
140
120
100
80
60

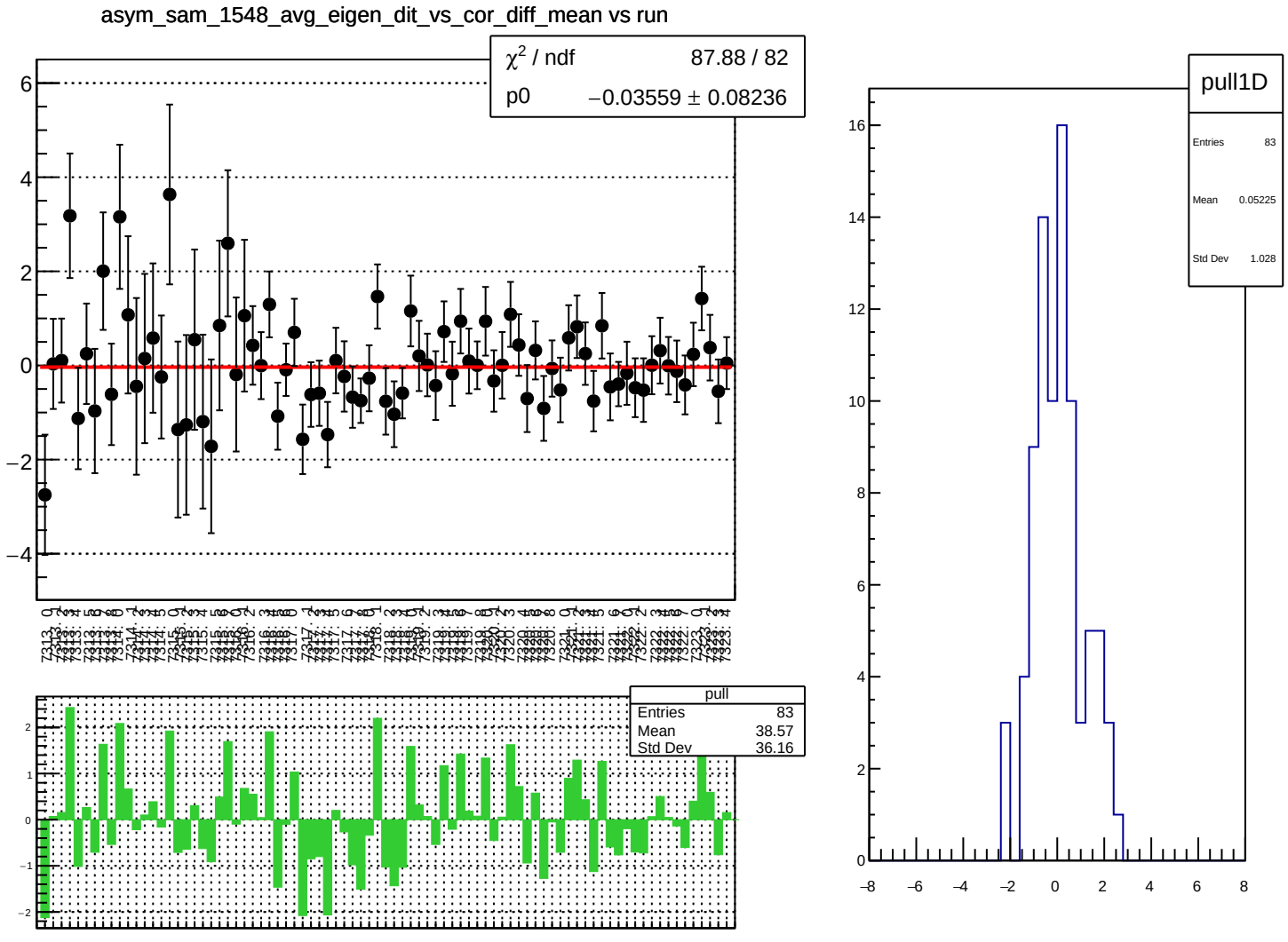

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 82
p0 −0.03558 ± 0.08236
pull
Entries 83
Mean 38.57
Std Dev 36.16
pull1D
Entries 83
Mean 0.05225
Std Dev 1.028

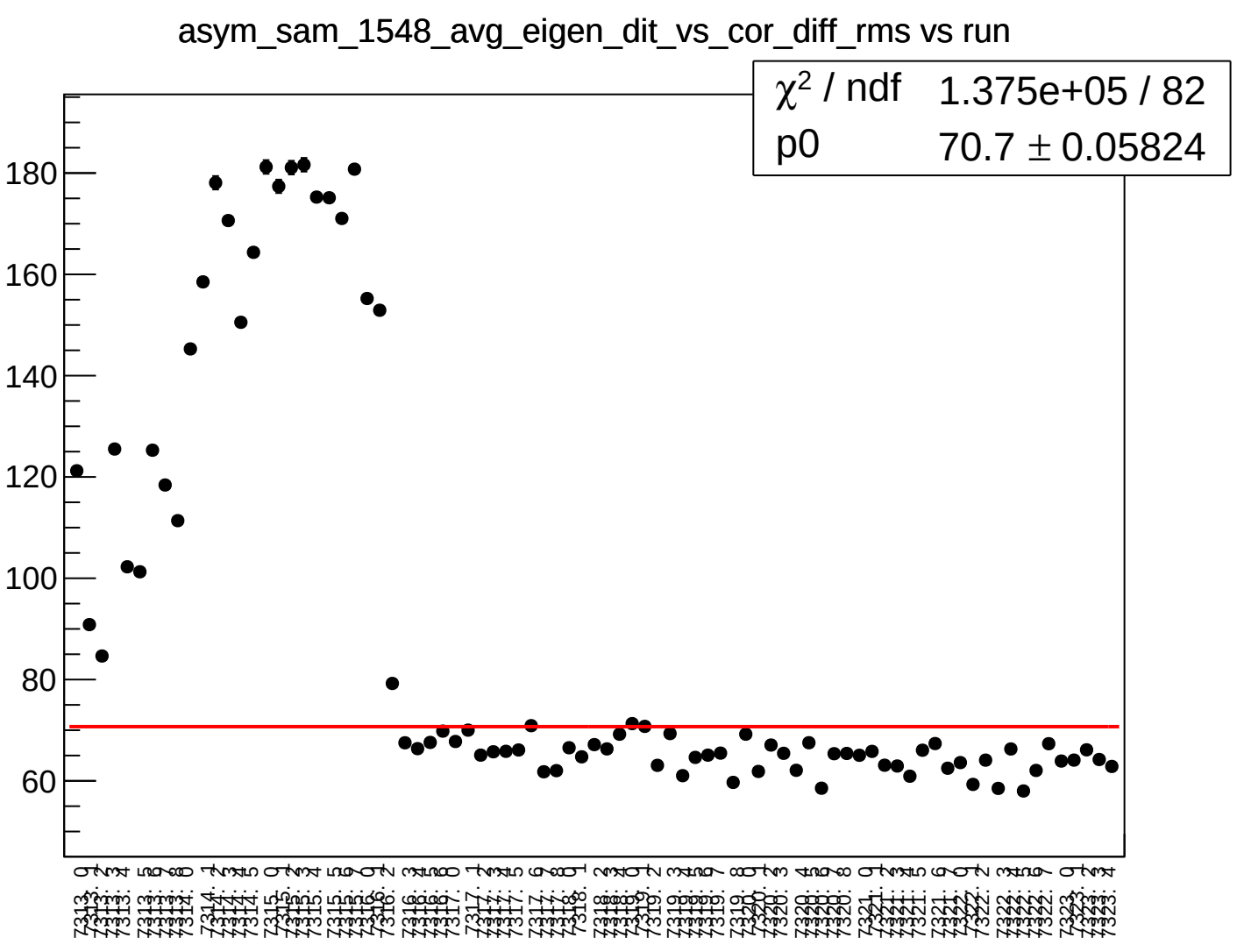

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.375e+05 / 82
p0 70.71 ± 0.05824
180
160
140
120
100
80
60

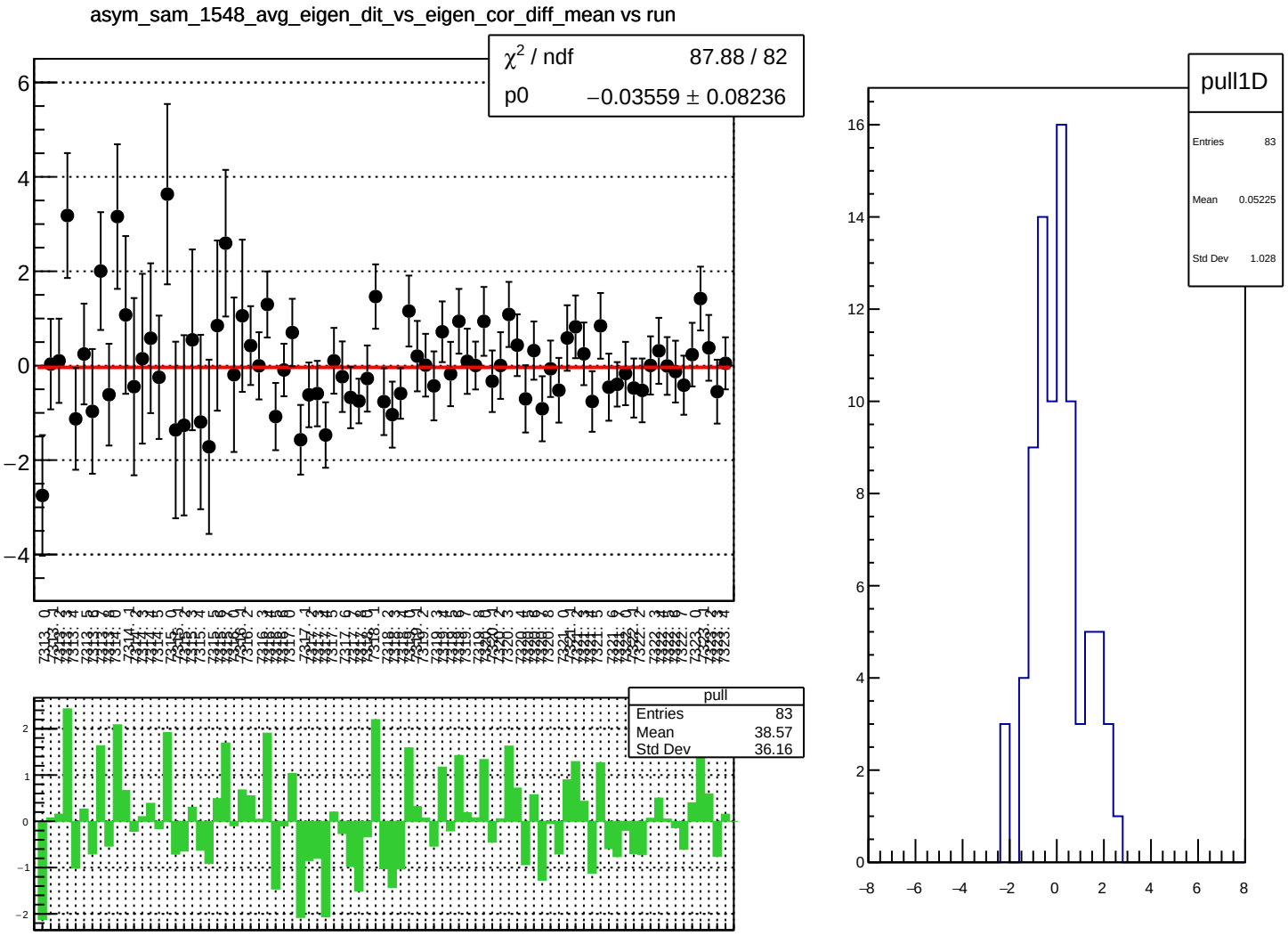

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 61.59 / 82
p0 −1.112e−06 ± 3.685e−06
pull
Entries 83
Mean 92.41
Std Dev 17.22

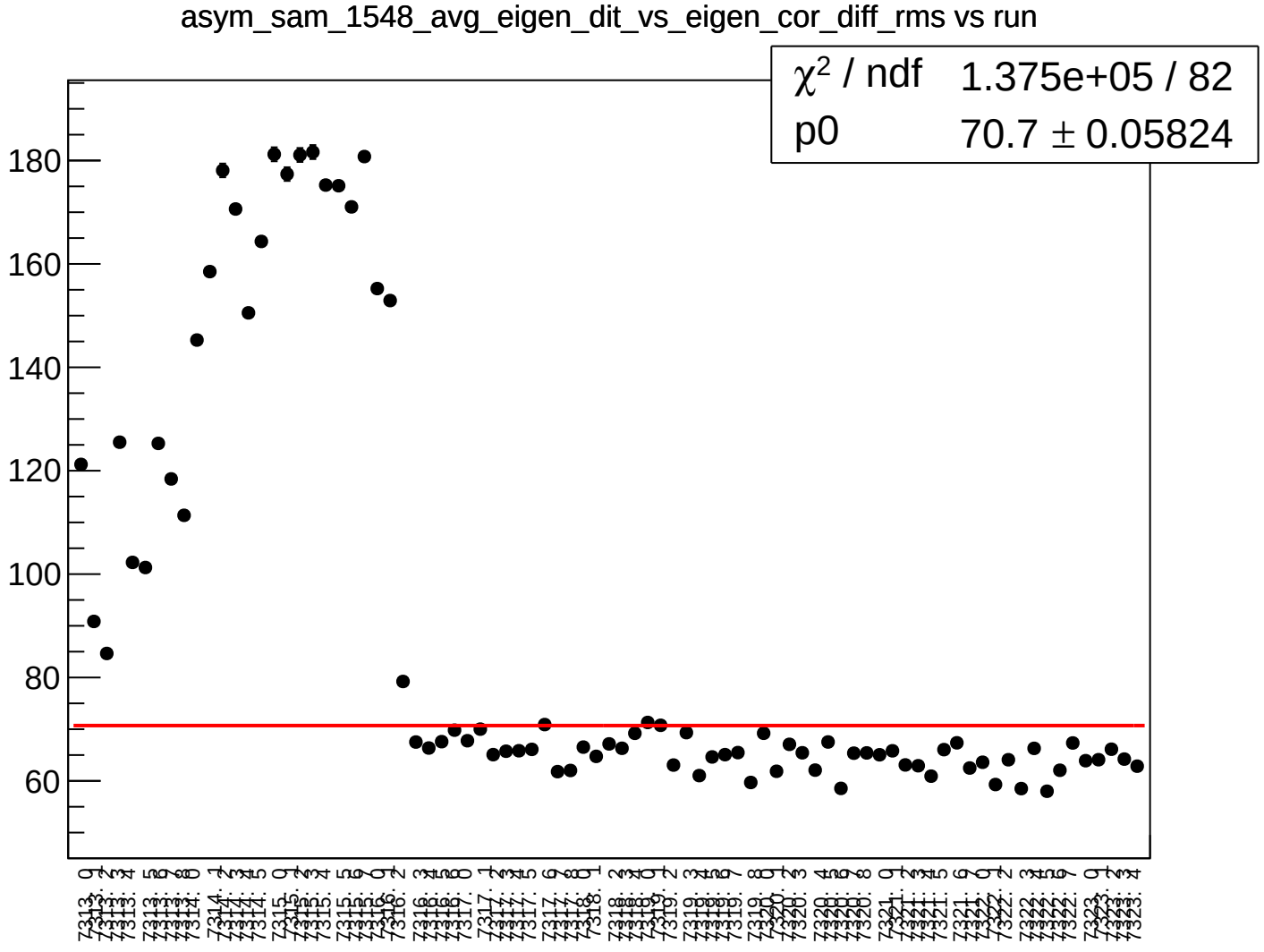

pull1D
Entries 83
Mean −0.02197
Std Dev 0.8611

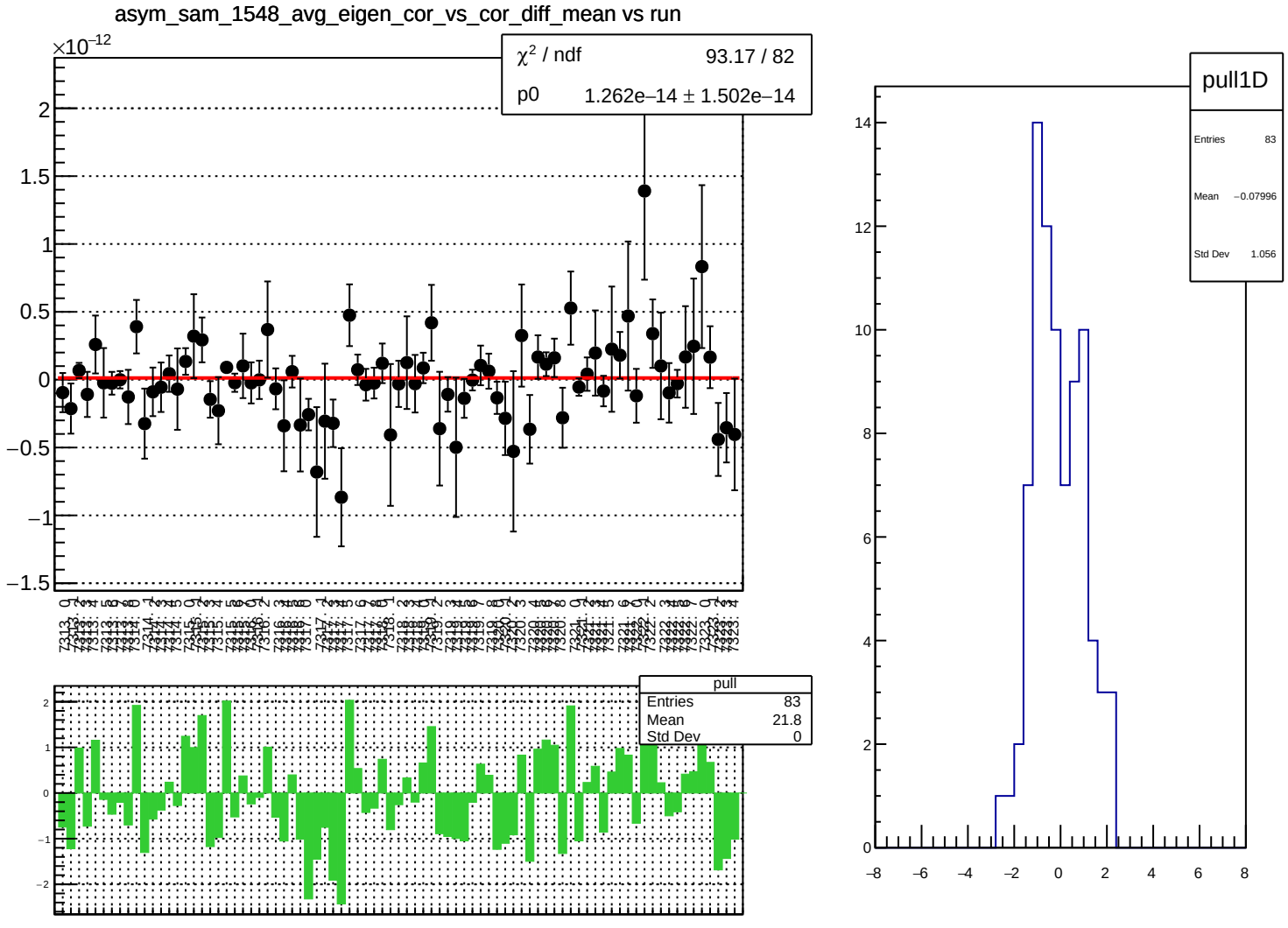

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4591 / 82
p0 0.003303 ± 2.606e−06
0.0038
0.0036
0.0034
0.0032
0.003

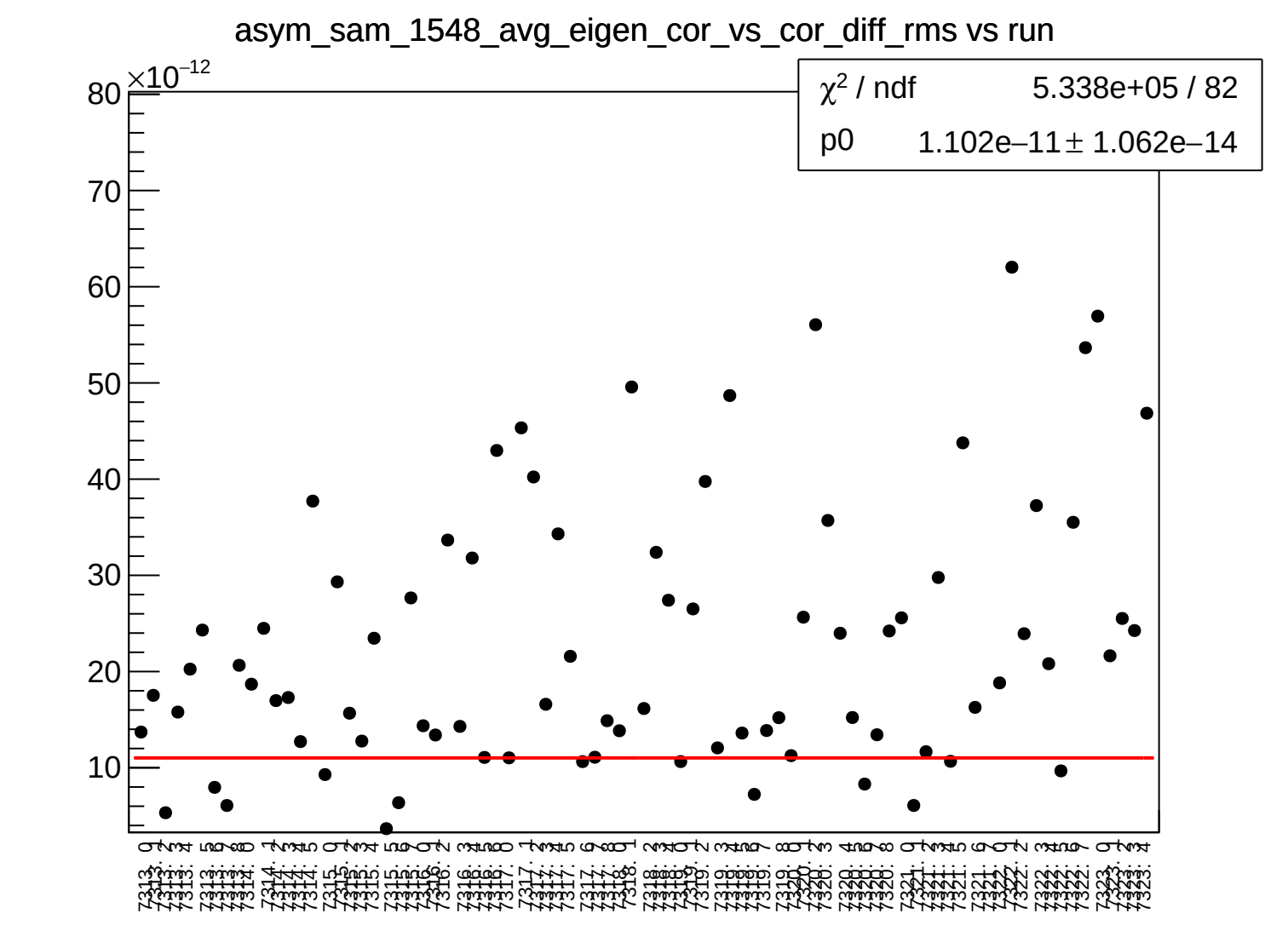

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 82
p0 −0.03559 ± 0.08236
pull
Entries 83
Mean 38.57
Std Dev 36.16
pull1D
Entries 83
Mean 0.05225
Std Dev 1.028

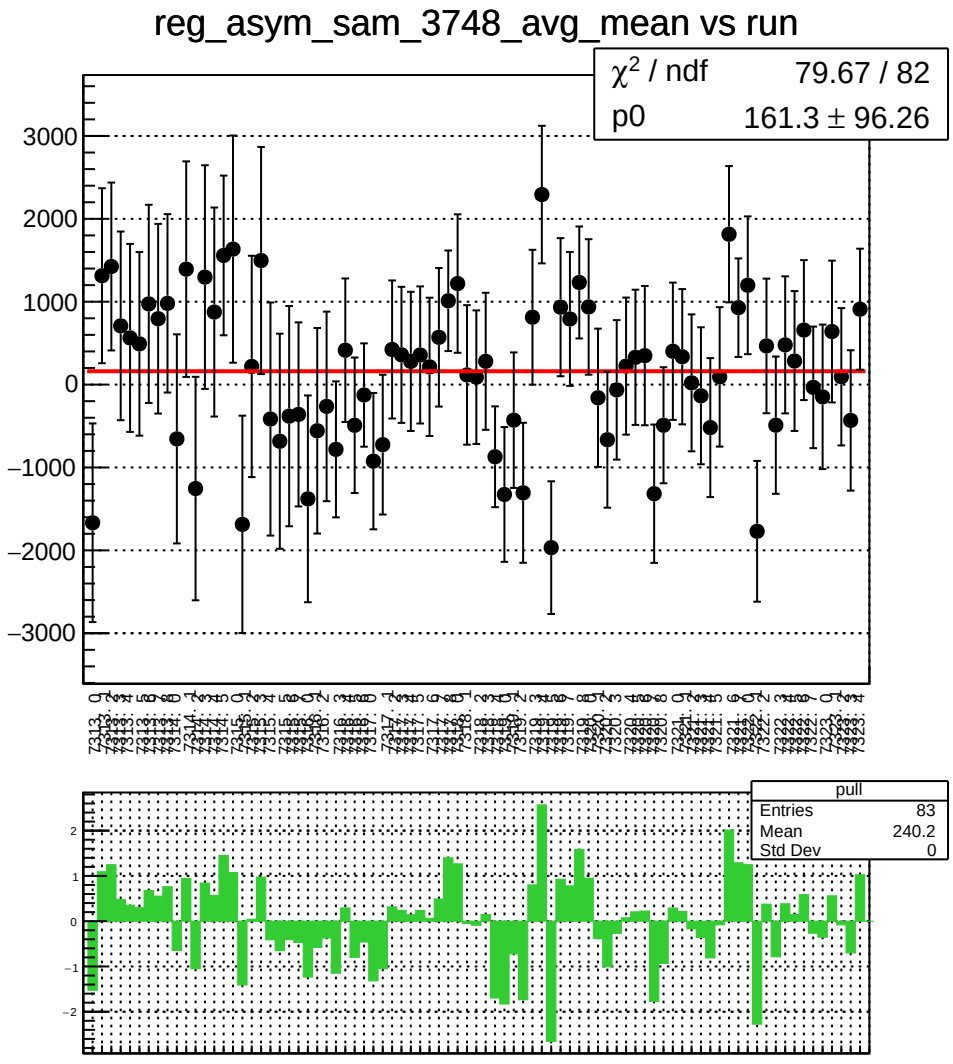

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 82
p0 70.7 ± 0.05824
180
160
140
120
100
80
60

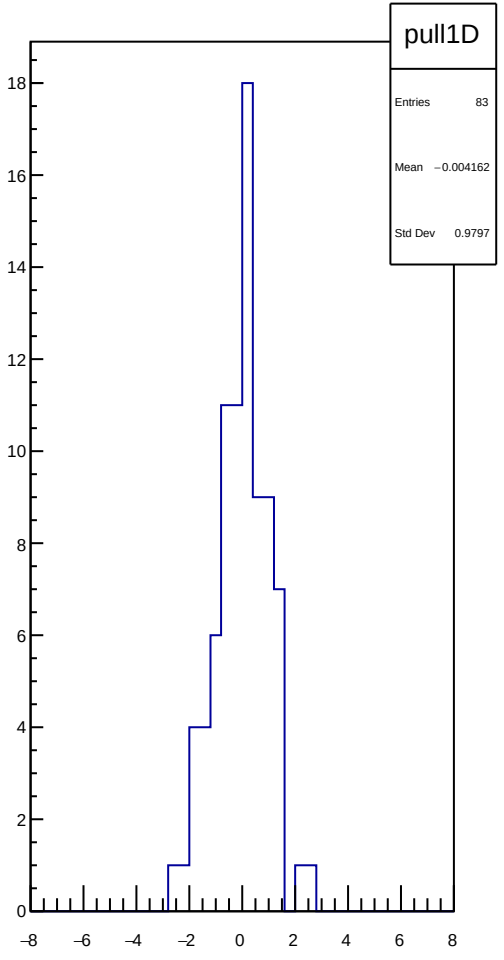

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 82
p0 −0.03559 ± 0.08236
pull
Entries 83
Mean 38.57
Std Dev 36.16
pull1D
Entries 83
Mean 0.05225
Std Dev 1.028

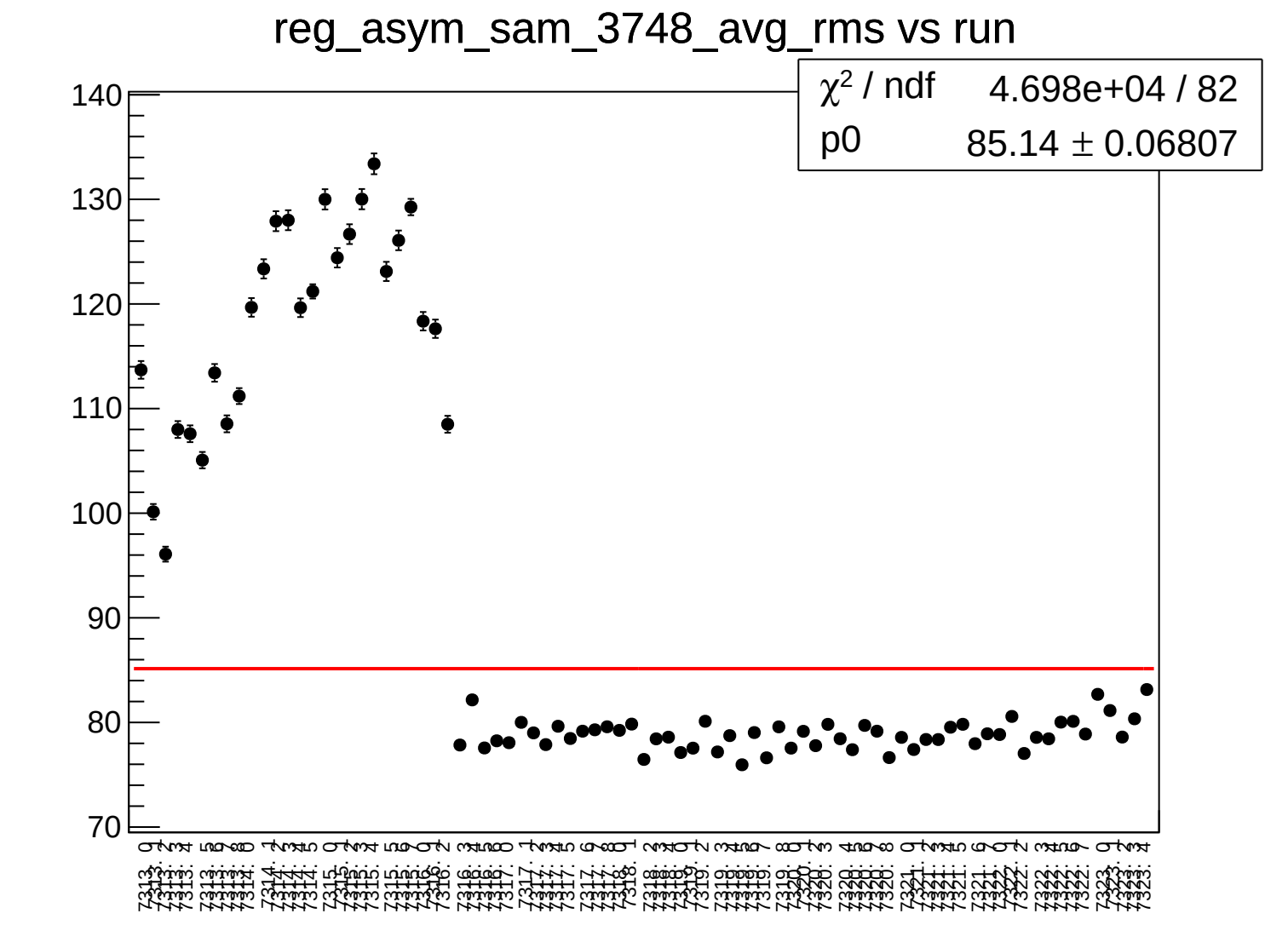

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+05 / 82
p0 70.7 ± 0.05824
180
160
140
120
100
80
60

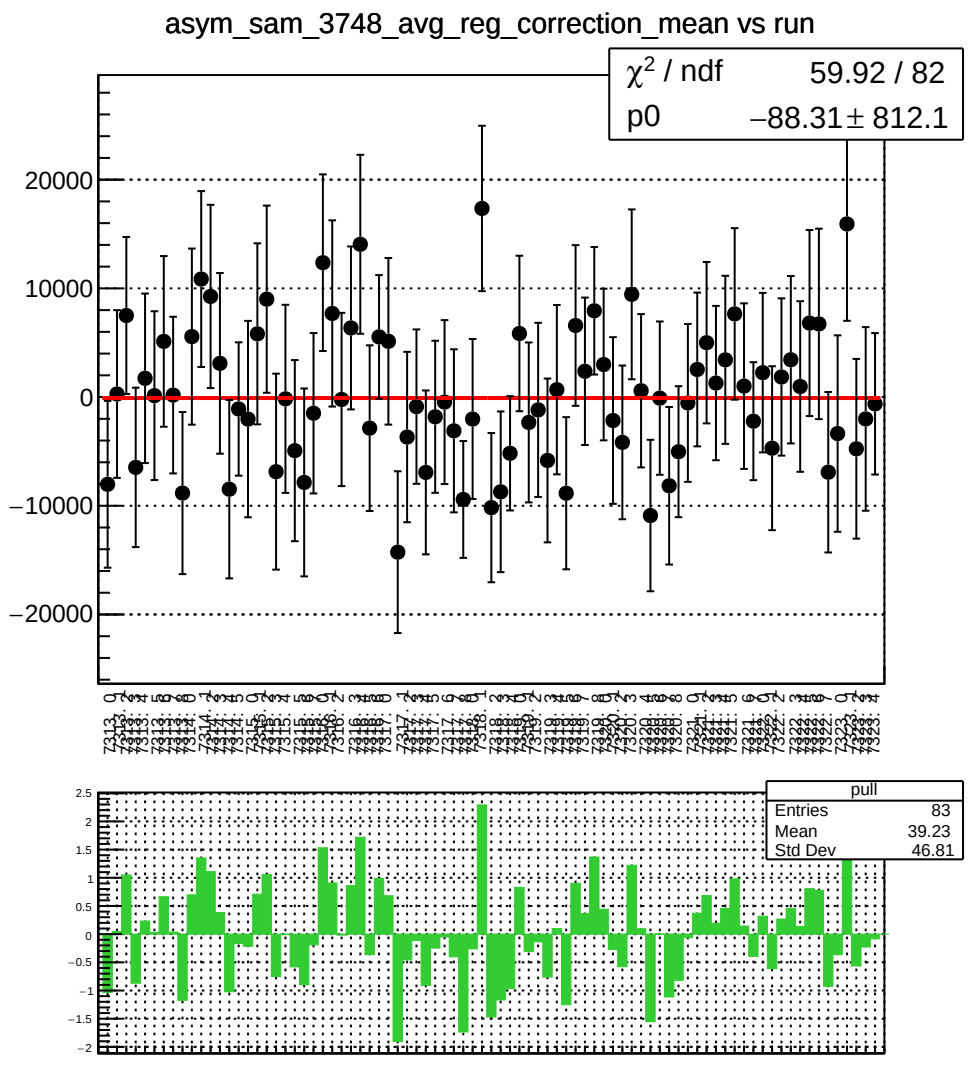

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.17 / 82
p0 1.262e−14 ± 1.502e−14
pull
Entries 83
Mean 21.8
Std Dev 0
pull1D
Entries 83
Mean −0.07996
Std Dev 1.056

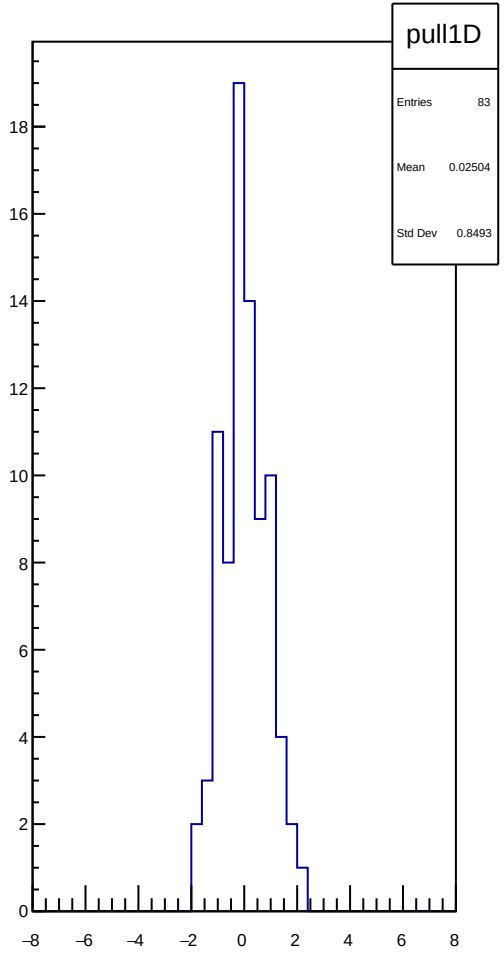

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.338e+05 / 82
p0 1.102e−11 ± 1.062e−14
80
70
60
50
40
30
20
10

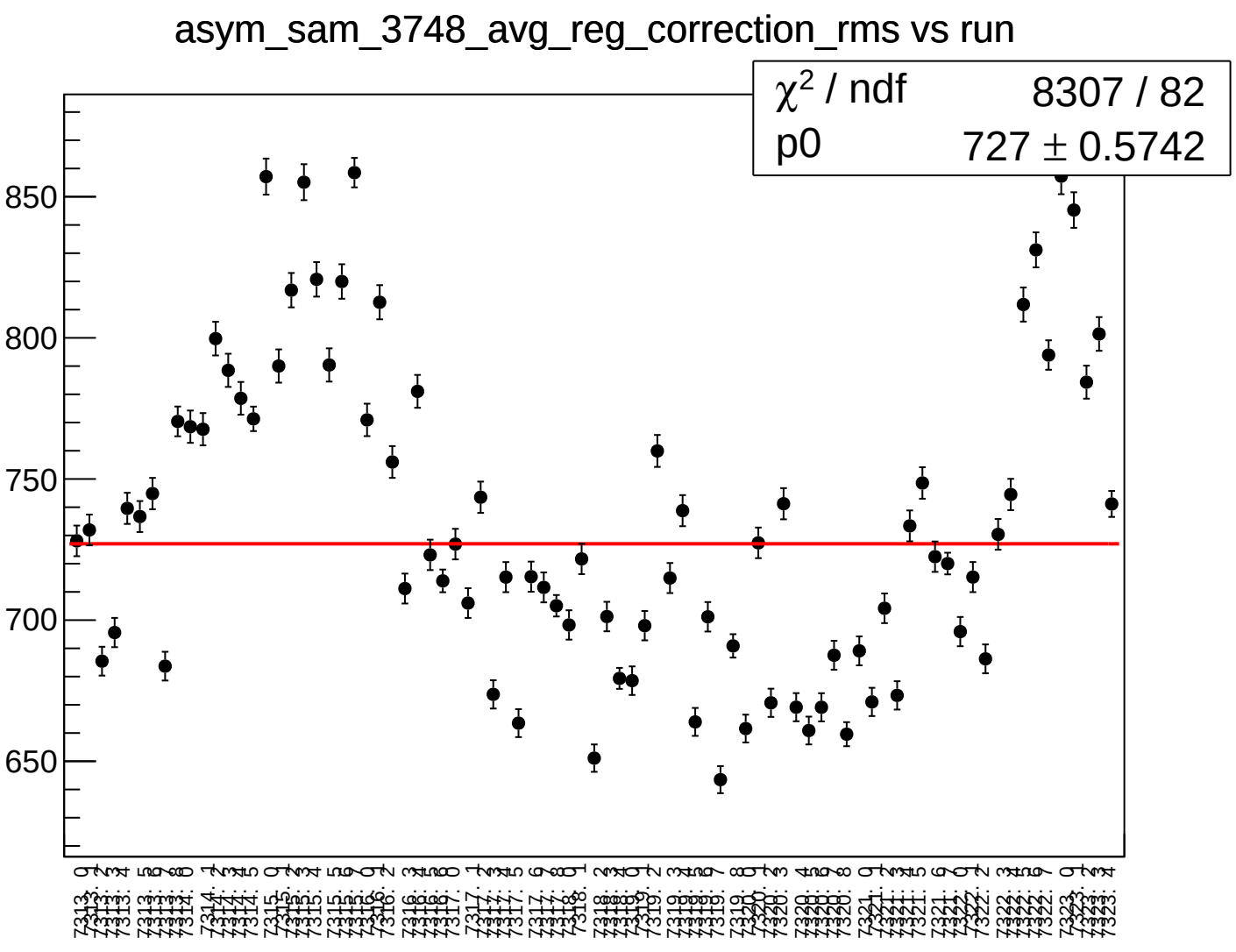

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 79.67 / 82
p0 161.3 ± 96.26
pull
Entries 83
Mean 240.2
Std Dev 0

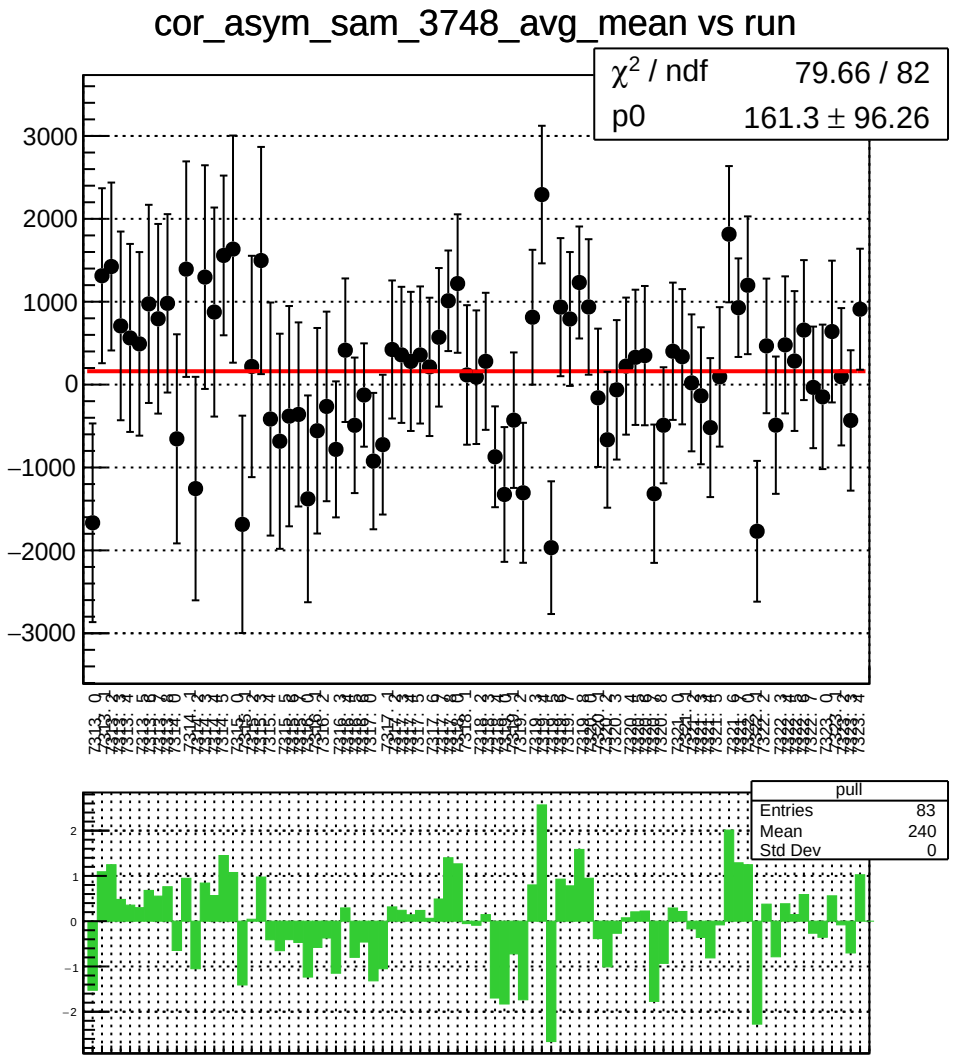

pull1D
Entries 83
Mean −0.004162
Std Dev 0.9797

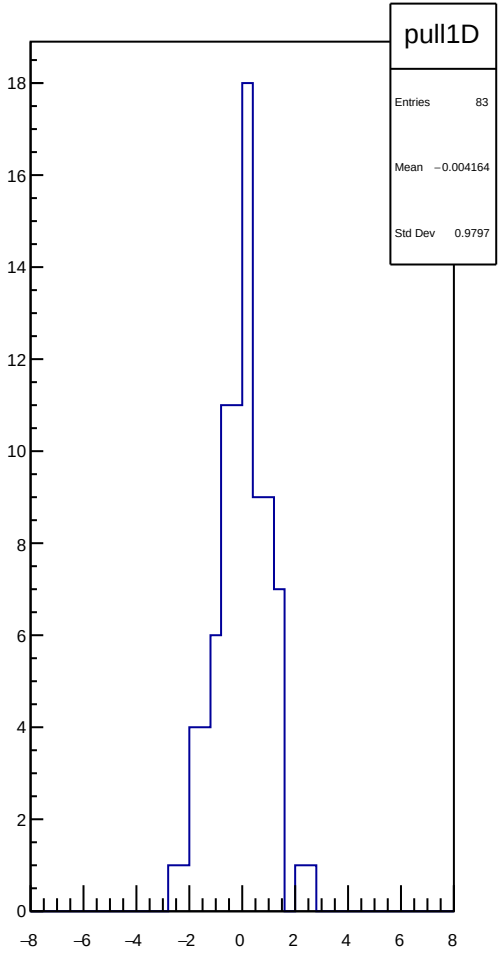

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 4.698e+04 / 82
p0 85.14 ± 0.06807
140
130
120
110
100
90
80
70

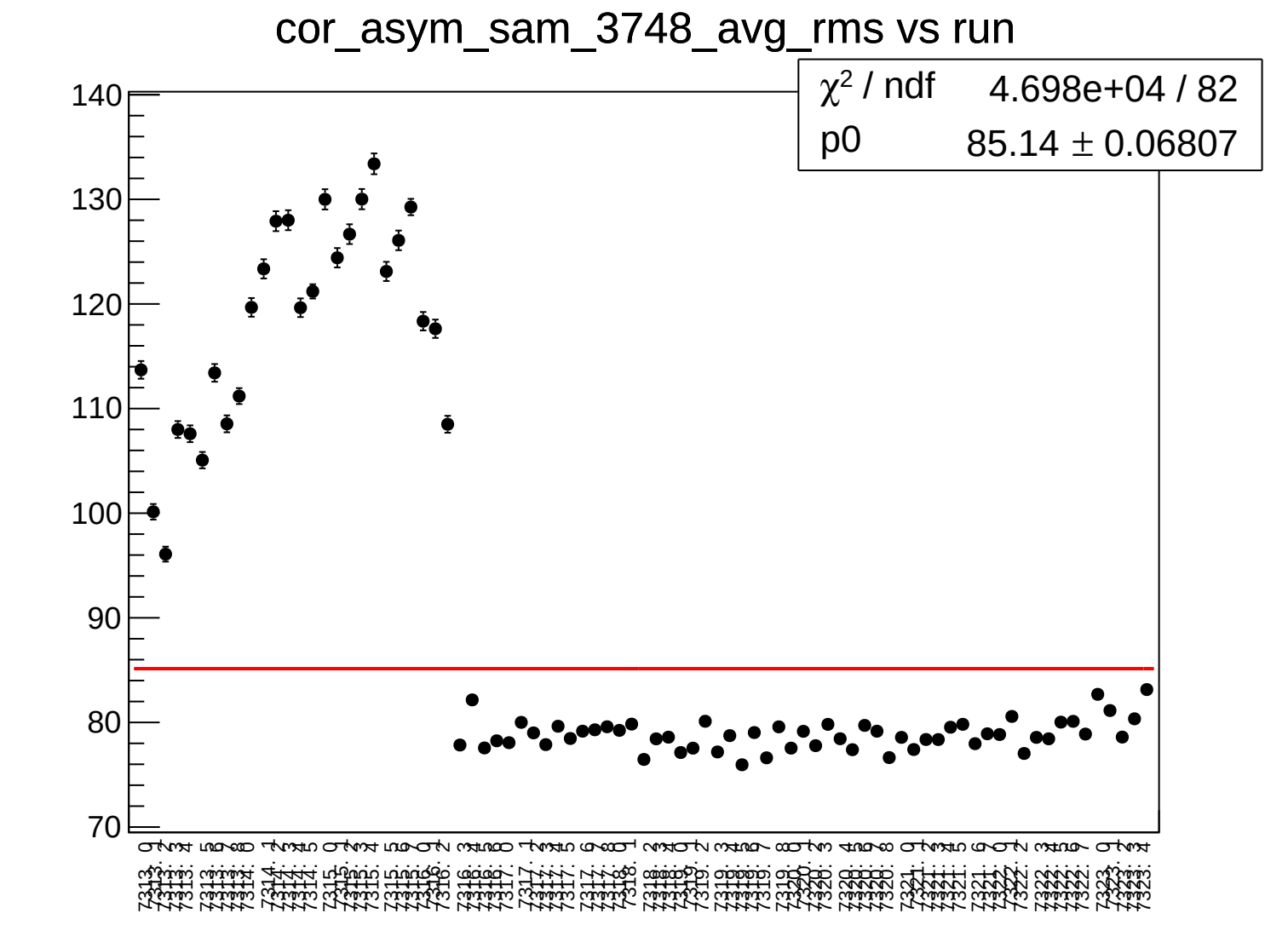

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 59.92 / 82
p0 −88.31 ± 812.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 39.23
Std Dev 46.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

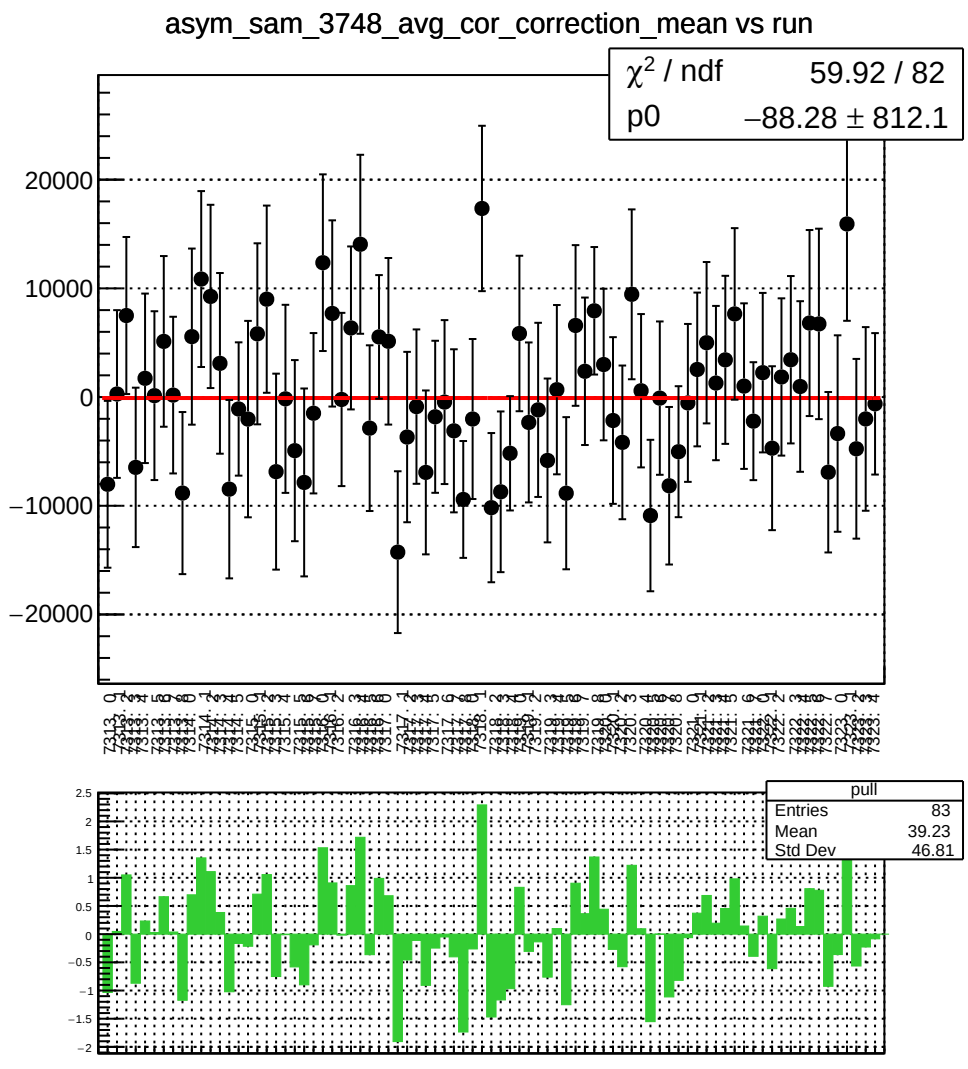

pull1D
Entries 83
Mean 0.02504
Std Dev 0.8493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

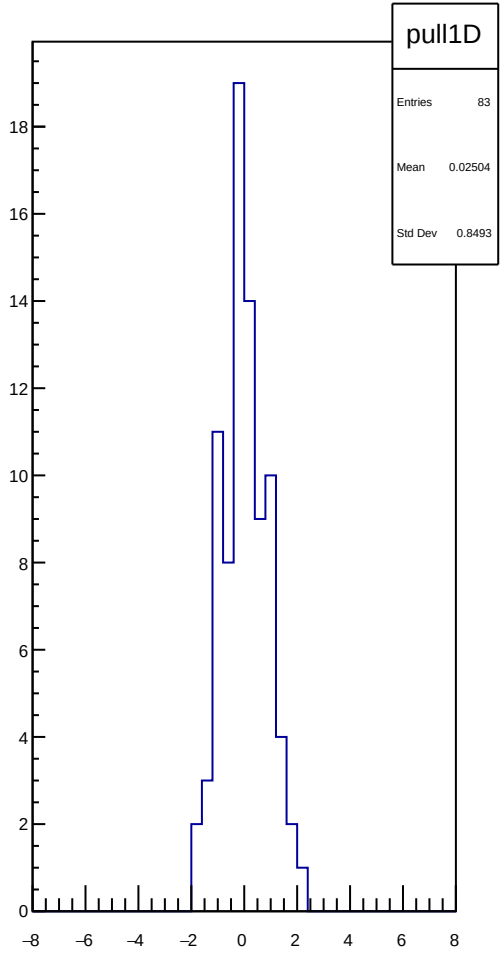

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8307 / 82
p0 727 ± 0.5742
850
800
750
700
650

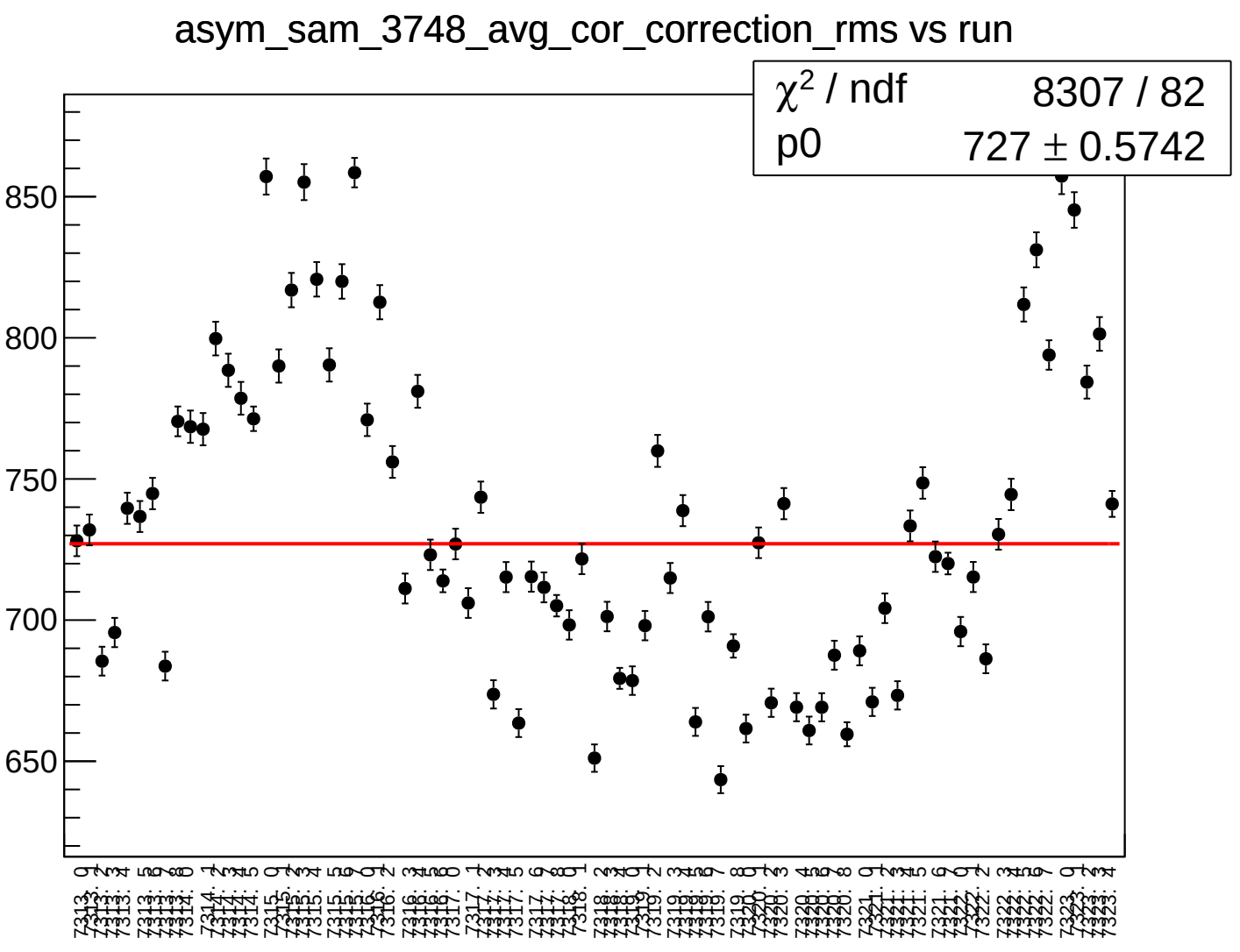

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 79.66 / 82
p0 161.3 ± 96.26
pull
Entries 83
Mean 240
Std Dev 0

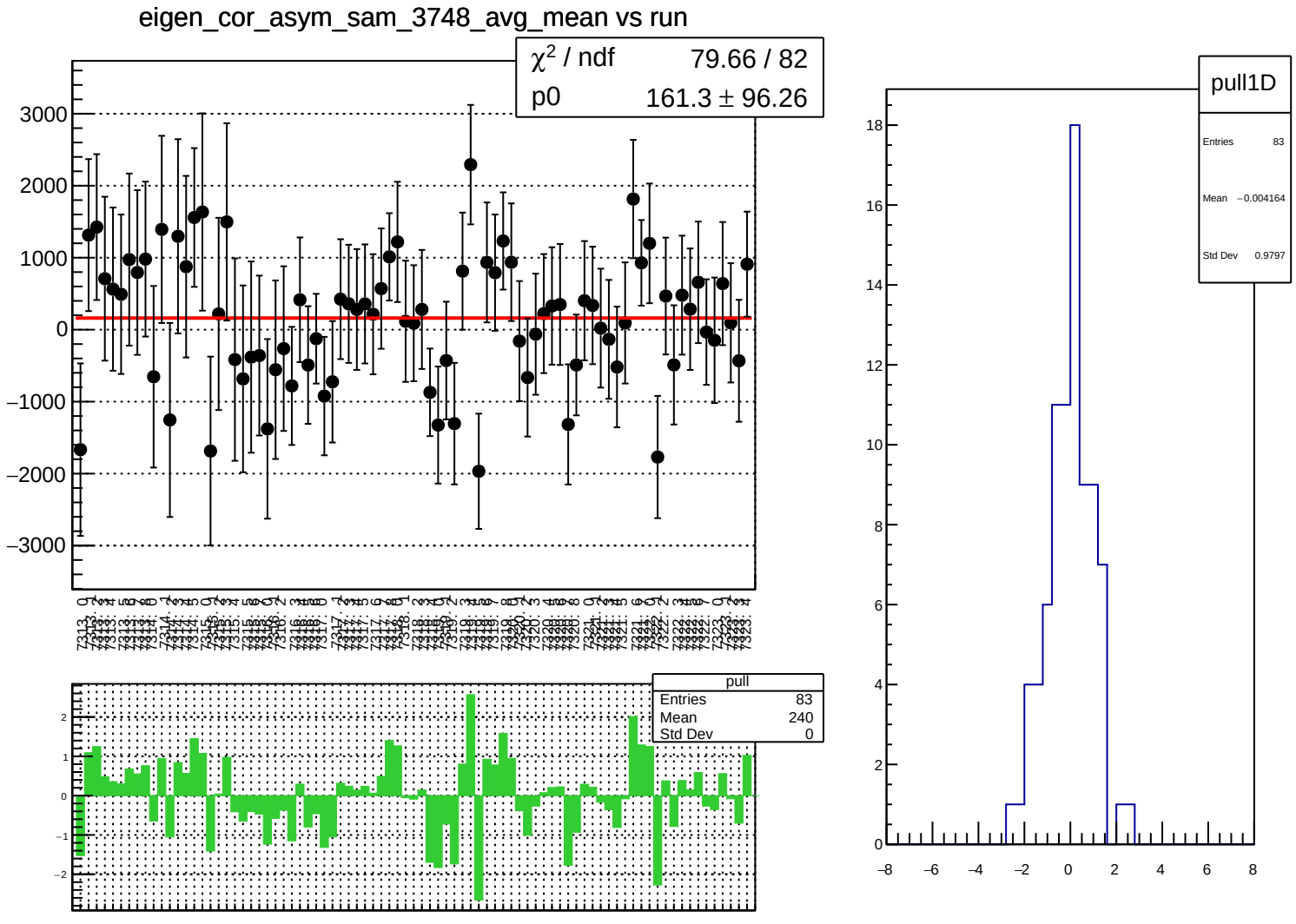

pull1D
Entries 83
Mean −0.004164
Std Dev 0.9797

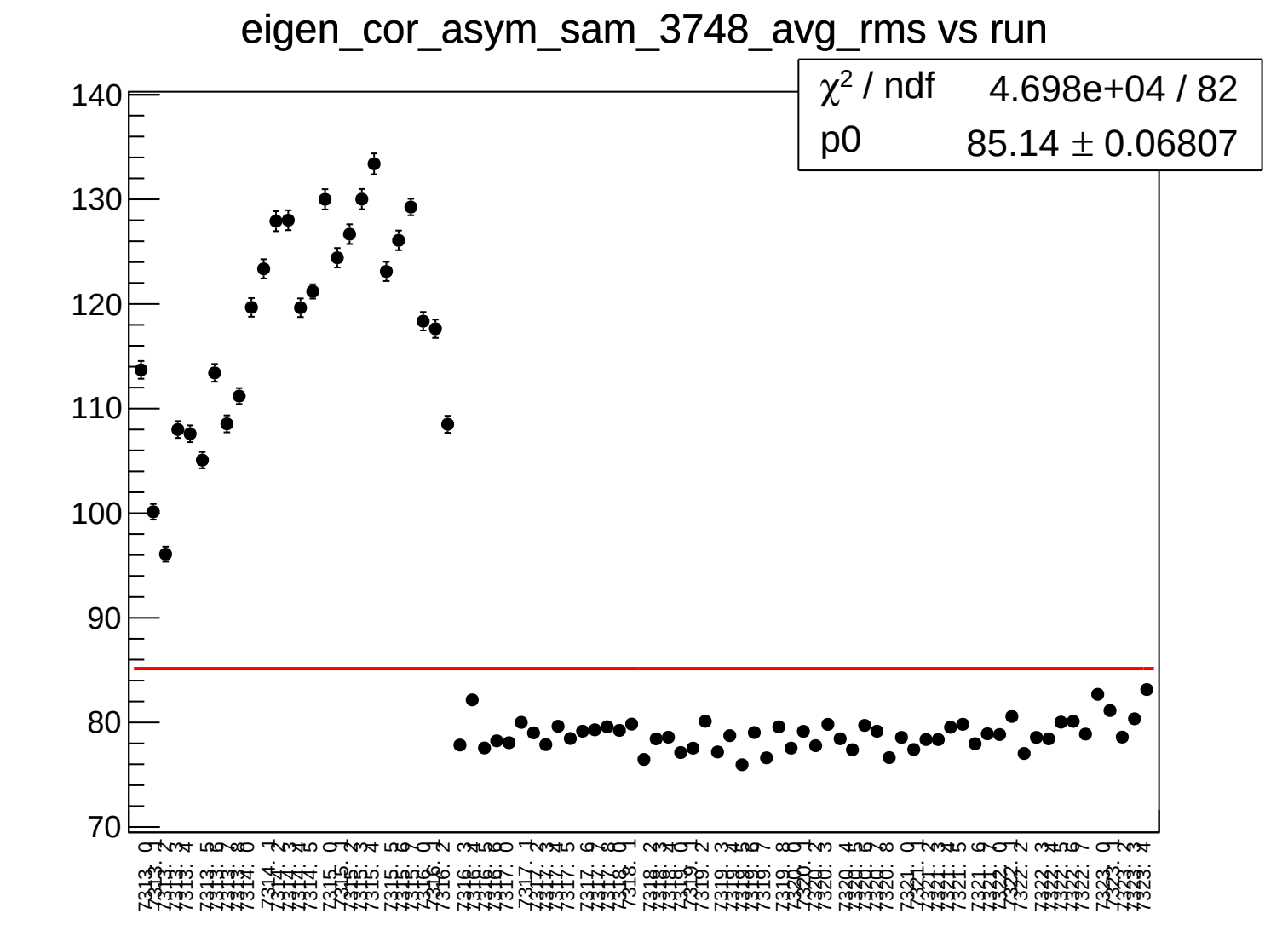

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 4.698e+04 / 82
p0 85.14 ± 0.06807
140
130
120
110
100
90
80
70

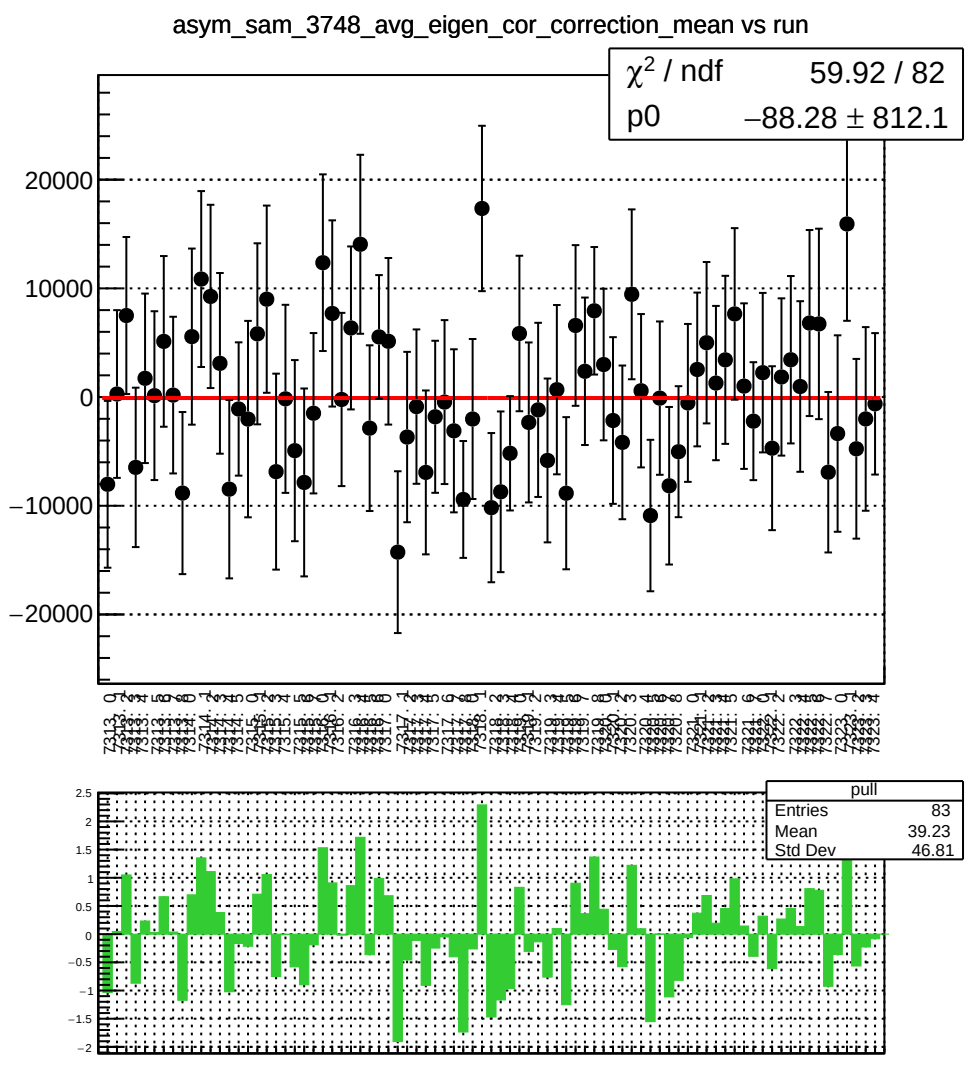

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 59.92 / 82
p0 −88.28 ± 812.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 39.23
Std Dev 46.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

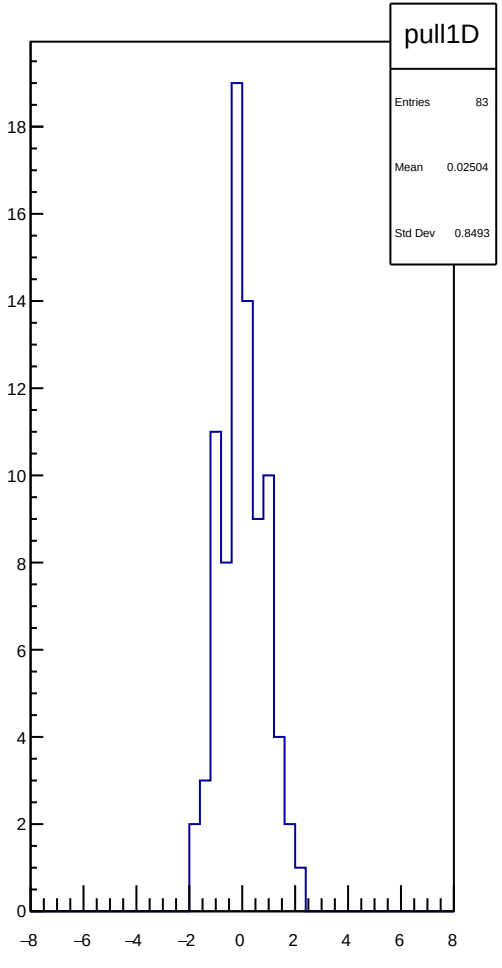

pull1D
Entries 83
Mean 0.02504
Std Dev 0.8493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

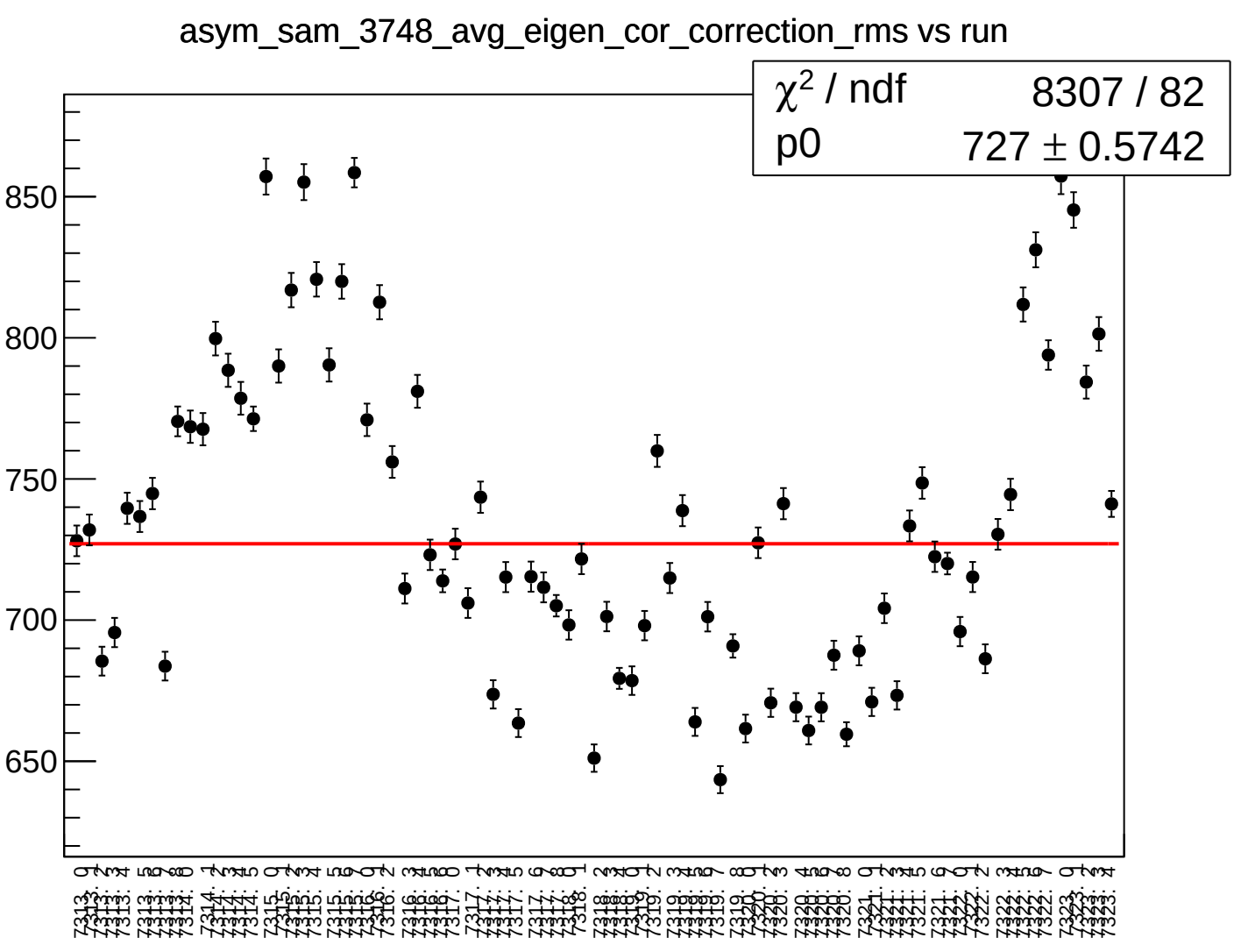

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8307 / 82
p0 727 ± 0.5742
850
800
750
700
650

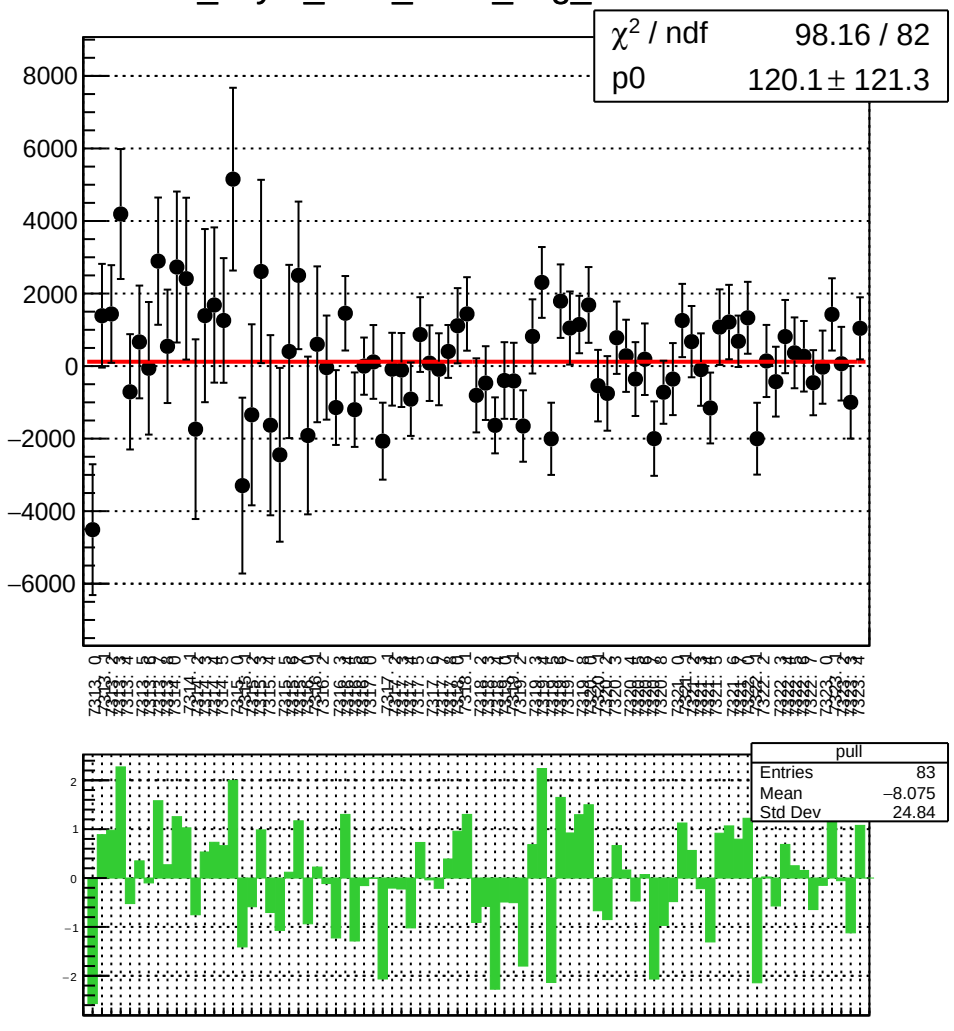

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 79.66 / 82
p0 161.3 ± 96.26
pull
Entries 83
Mean 240
Std Dev 0
pull1D
Entries 83
Mean −0.004164
Std Dev 0.9797

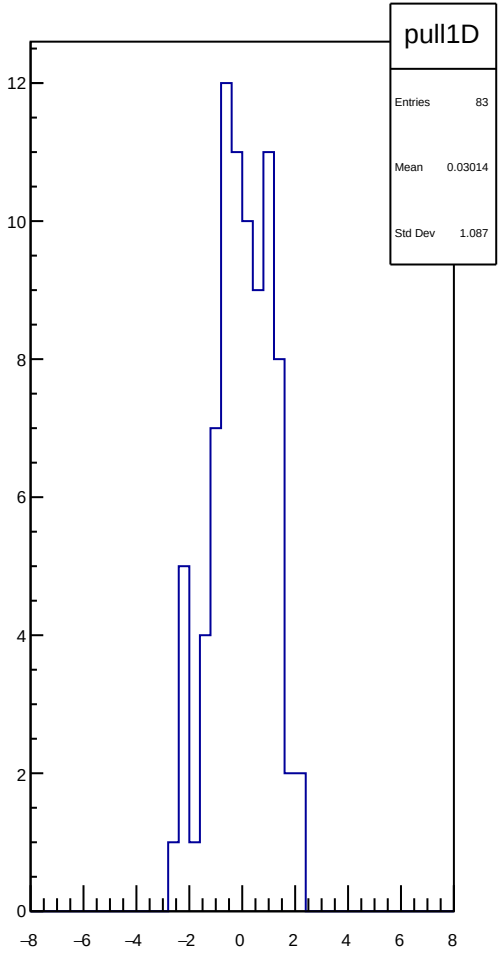

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 4.698e+04 / 82
p0 85.14 ± 0.06807
140
130
120
110
100
90
80
70

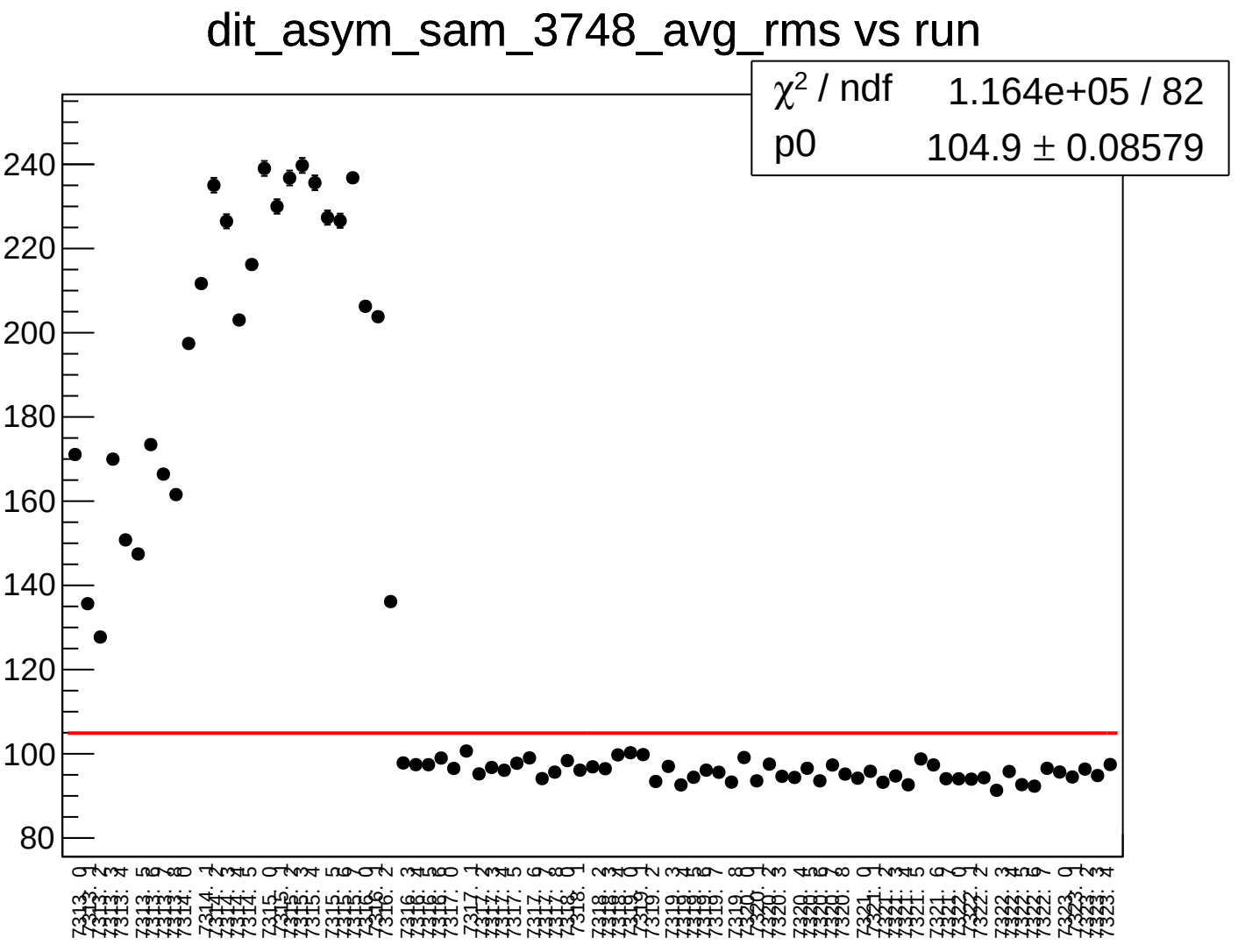

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 59.92 / 82
p0 −88.28 ± 812.1
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 39.23
Std Dev 46.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

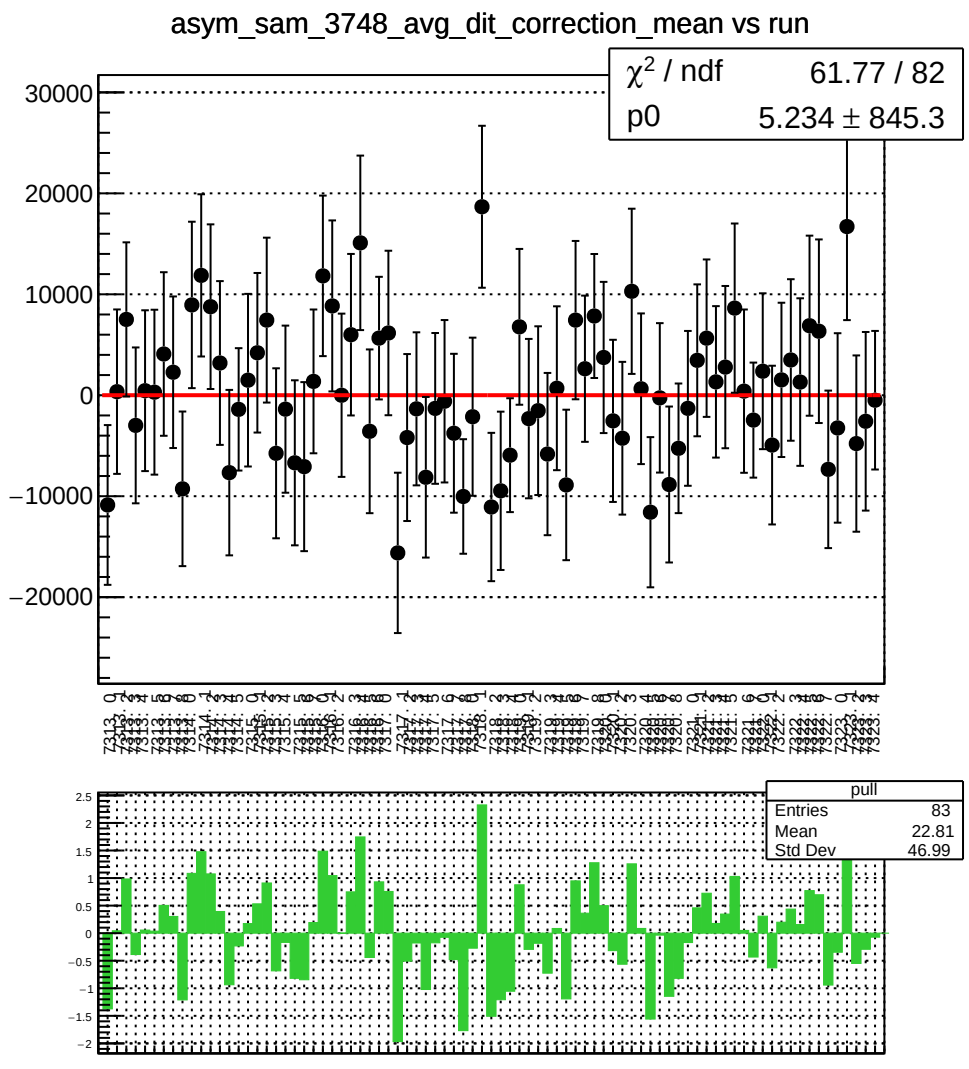

pull1D
Entries 83
Mean 0.02504
Std Dev 0.8493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

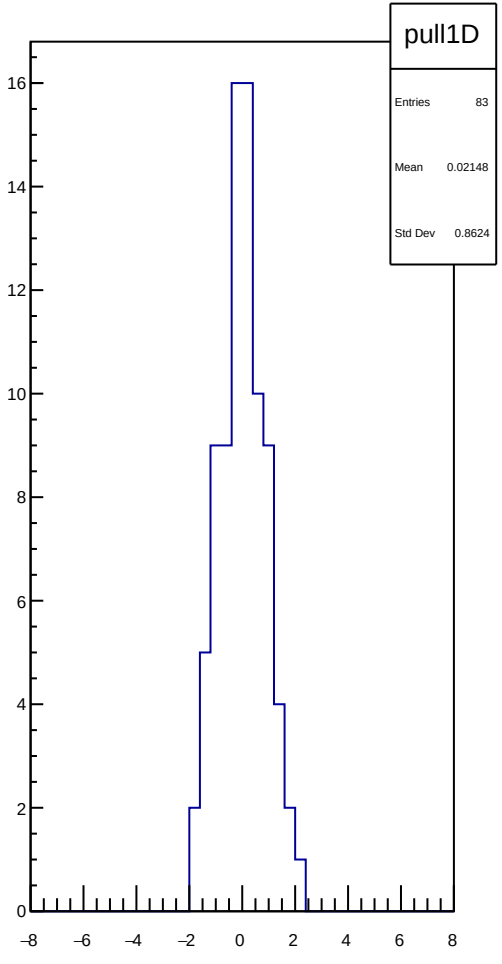

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8307 / 82
p0 727 ± 0.5742
850
800
750
700
650

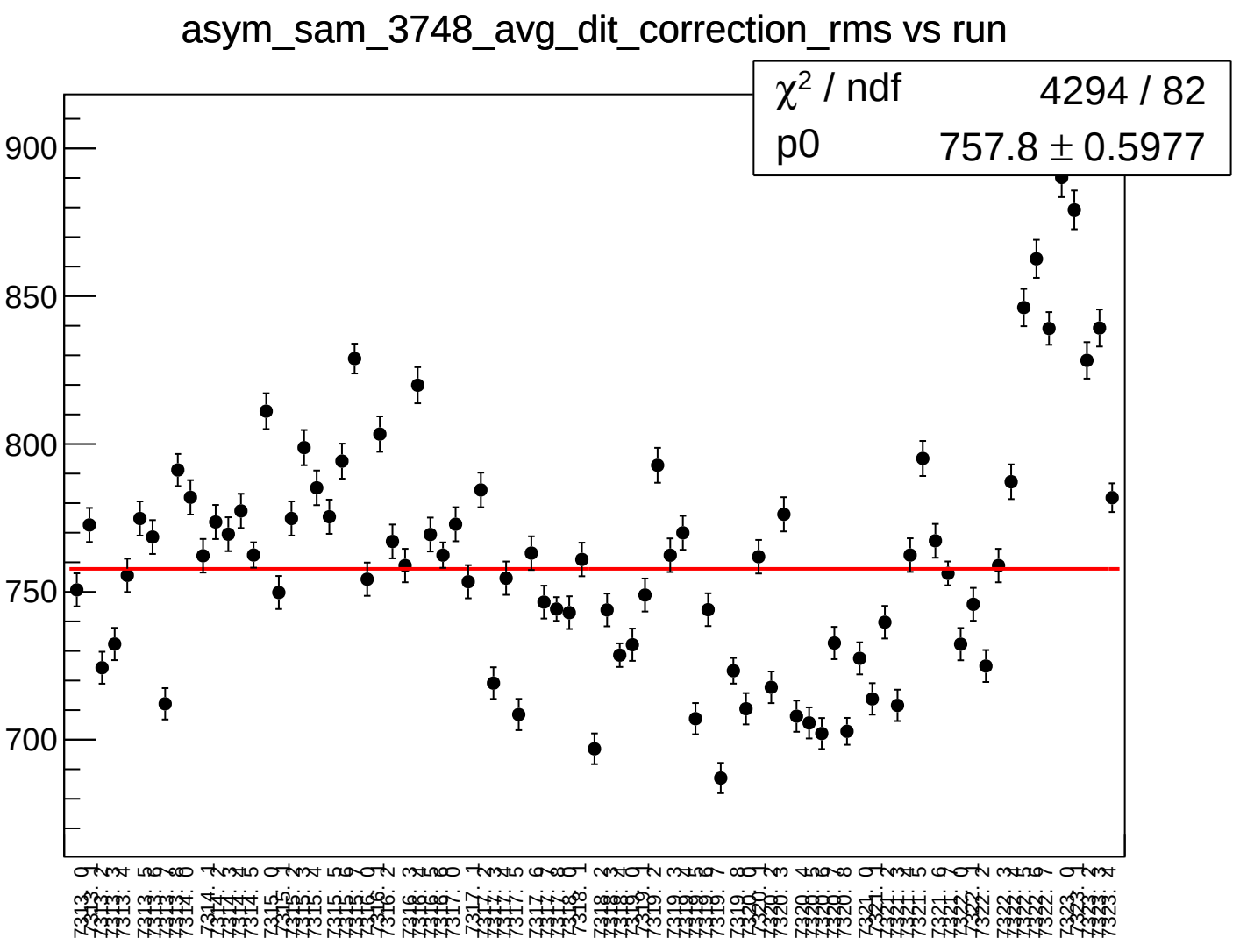

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 98.16 / 82
p0 120.1 ± 121.3
pull
Entries 83
Mean −8.075
Std Dev 24.84

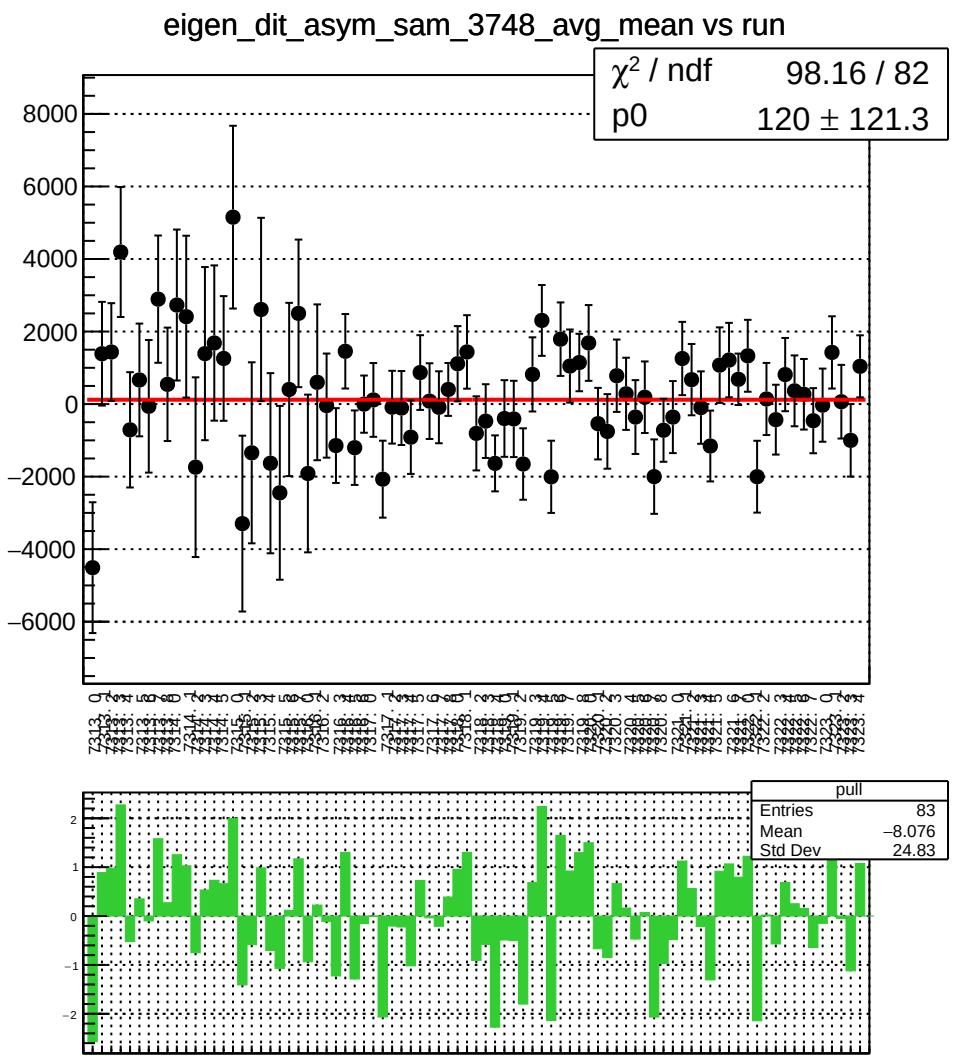

pull1D
Entries 83
Mean 0.03014
Std Dev 1.087

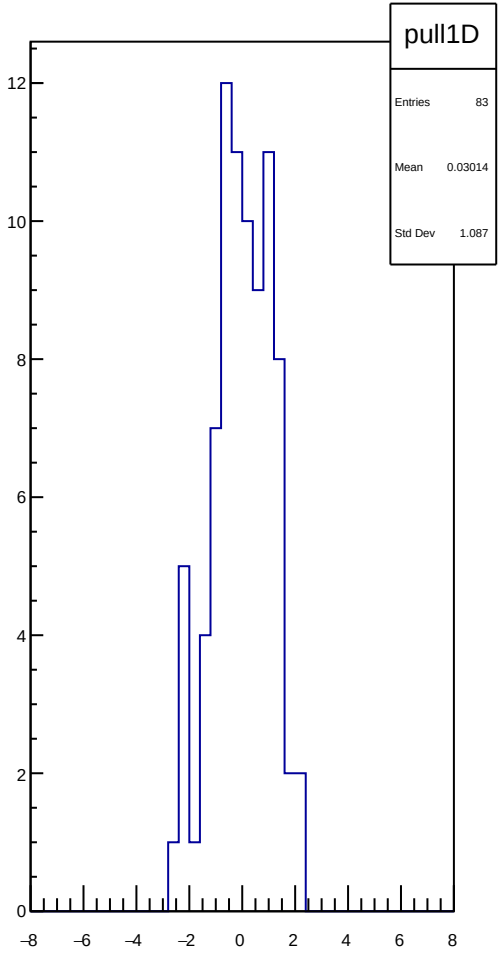

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.164e+05 / 82
p0 104.9 ± 0.08579
240
220
200
180
160
140
120
100
80

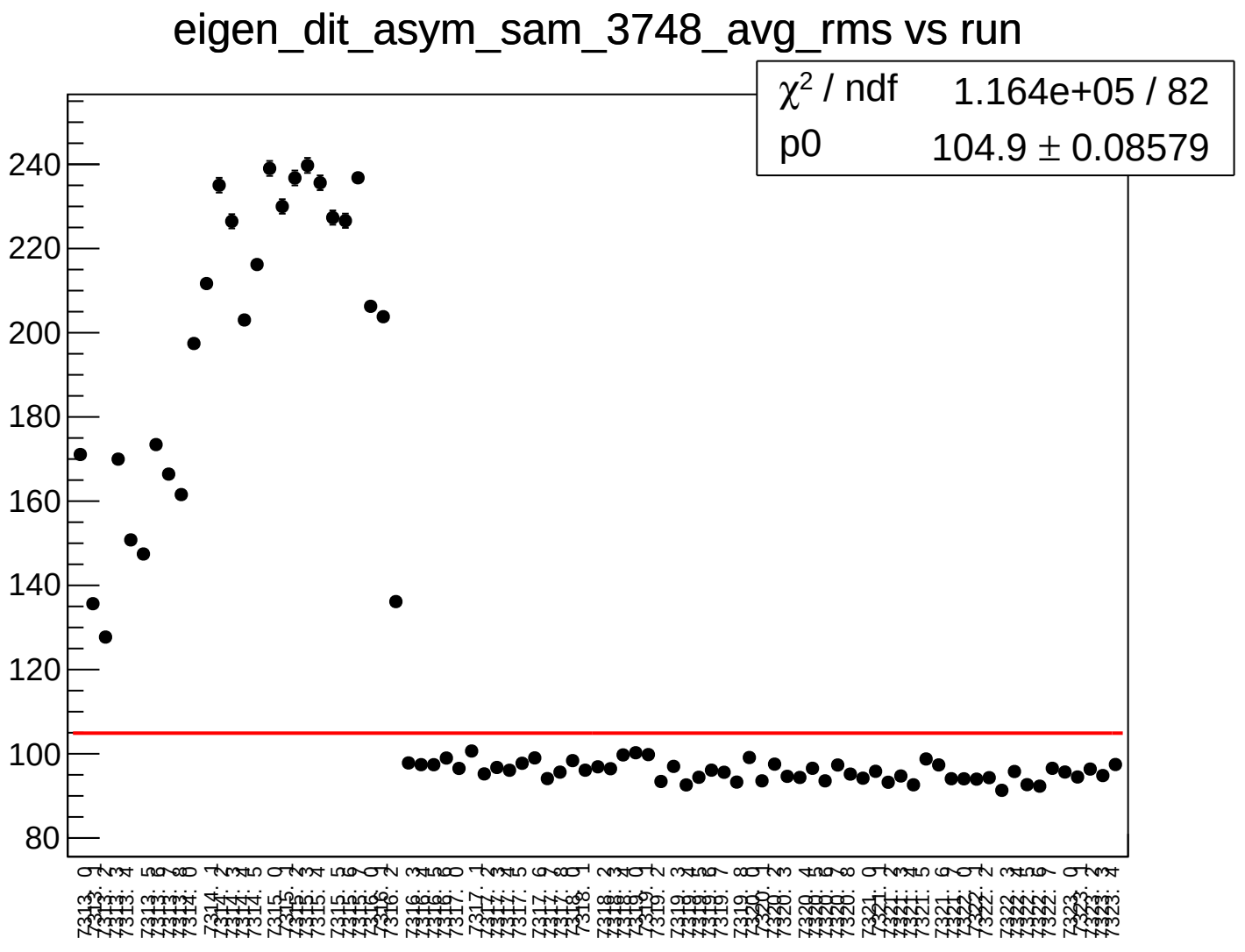

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 61.77 / 82
p0 5.234 ± 845.3
pull
Entries 83
Mean 22.81
Std Dev 46.99

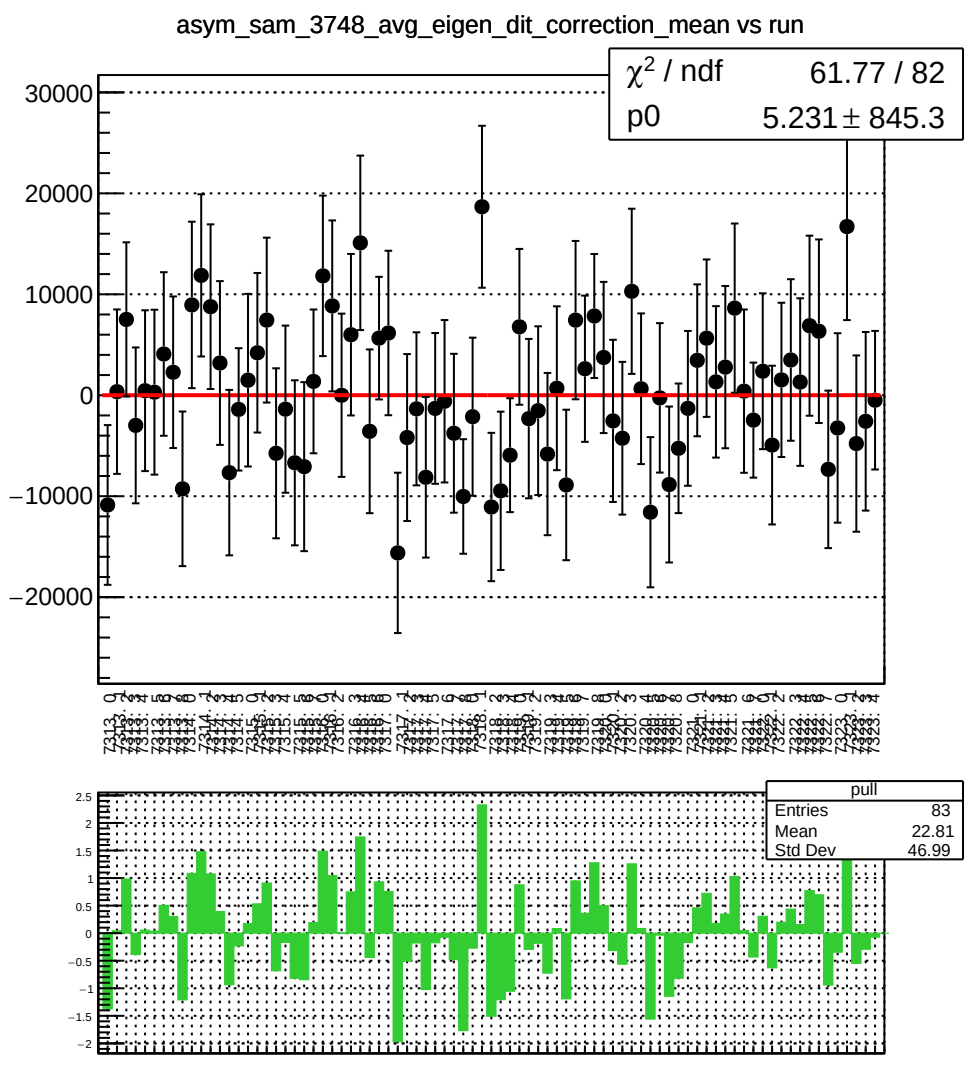

pull1D
Entries 83
Mean 0.02148
Std Dev 0.8624

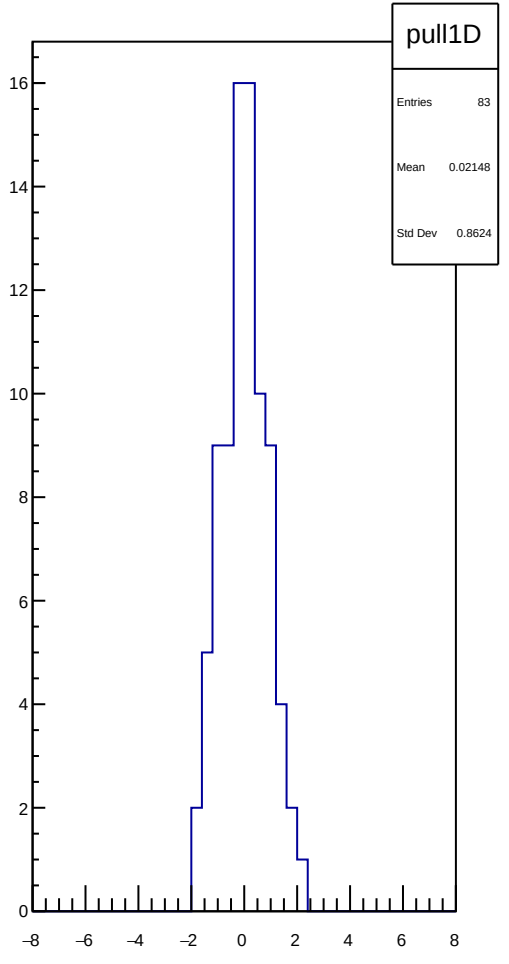

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 4294 / 82
p0 757.8 ± 0.5977
900
850
800
750
700

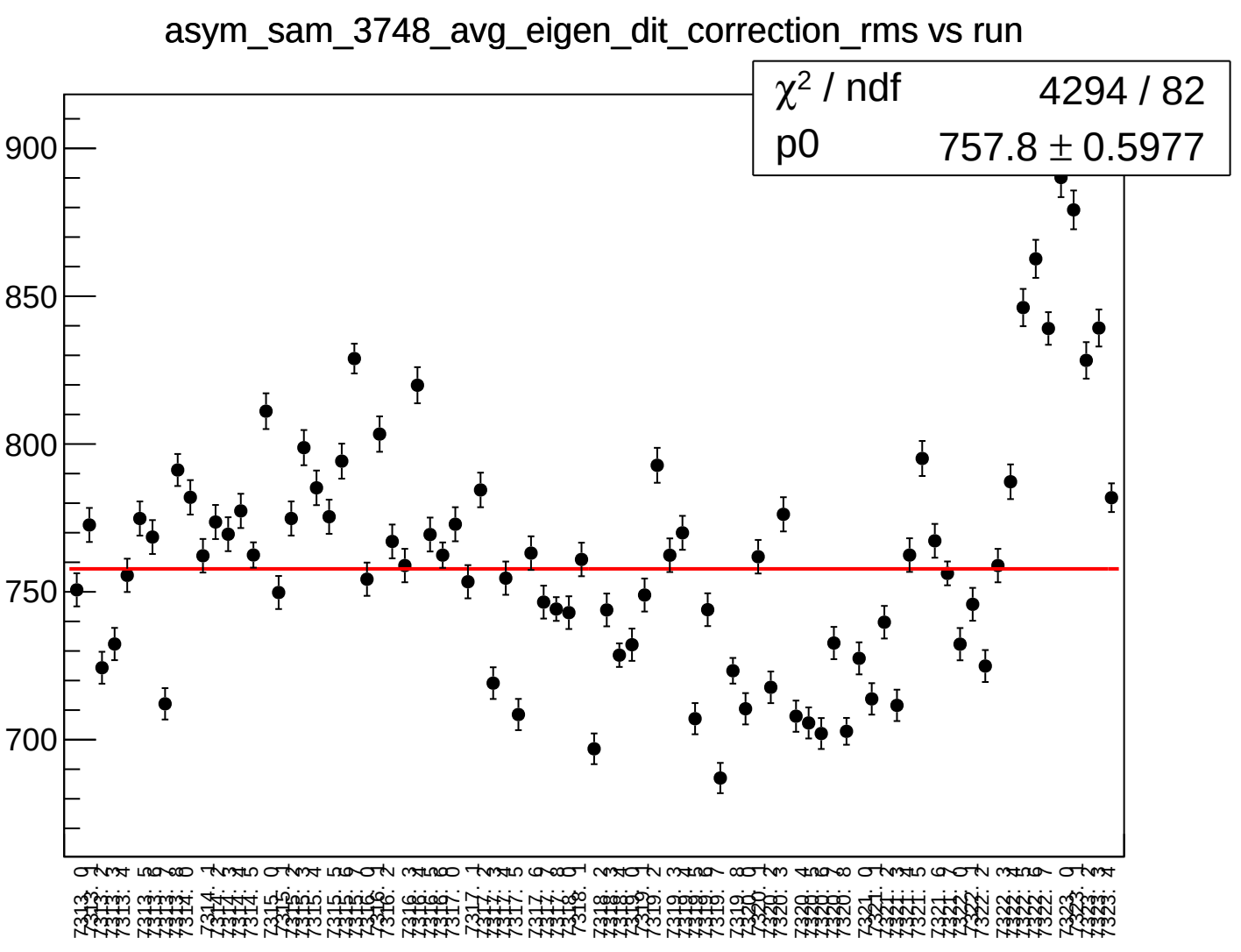

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 98.16 / 82
p0 120 ± 121.3
pull
Entries 83
Mean −8.076
Std Dev 24.83

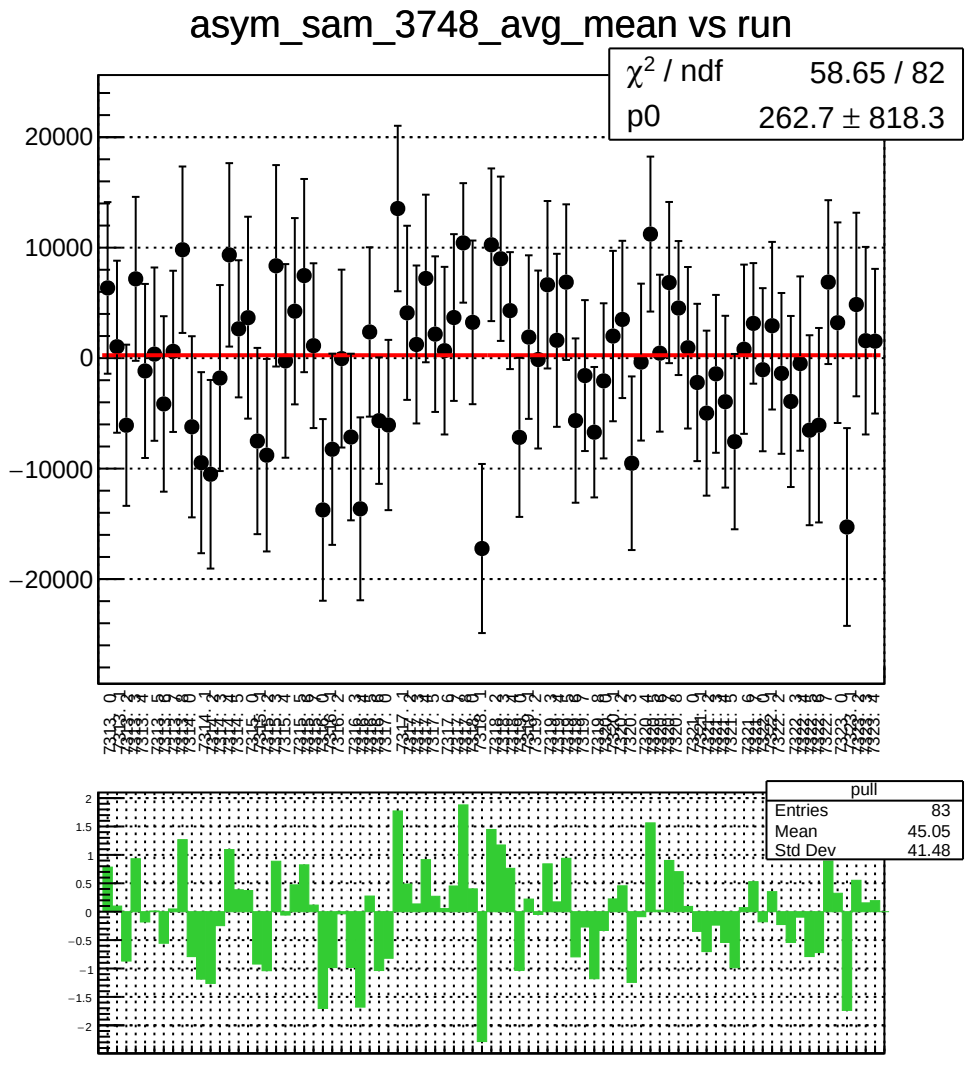

pull1D
Entries 83
Mean 0.03014
Std Dev 1.087

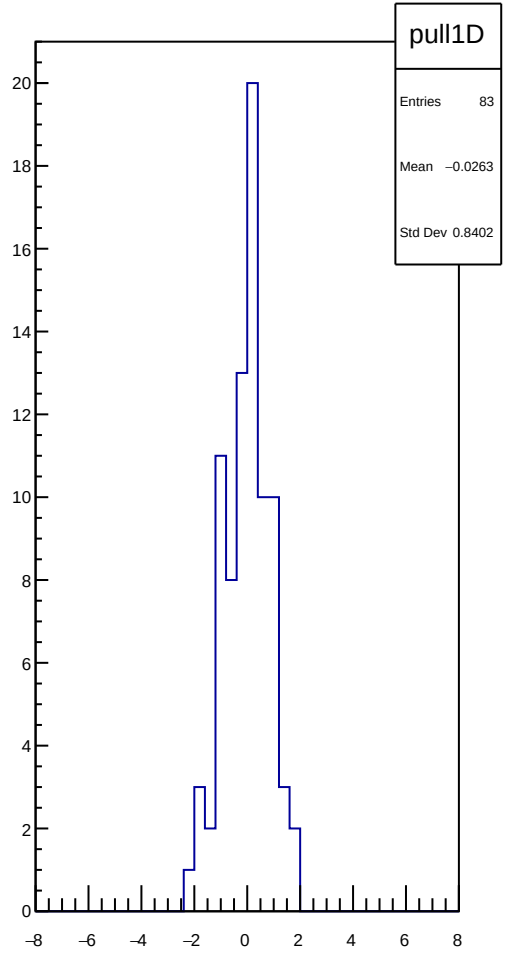

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.164e+05 / 82
p0 104.9 ± 0.08579
240
220
200
180
160
140
120
100
80

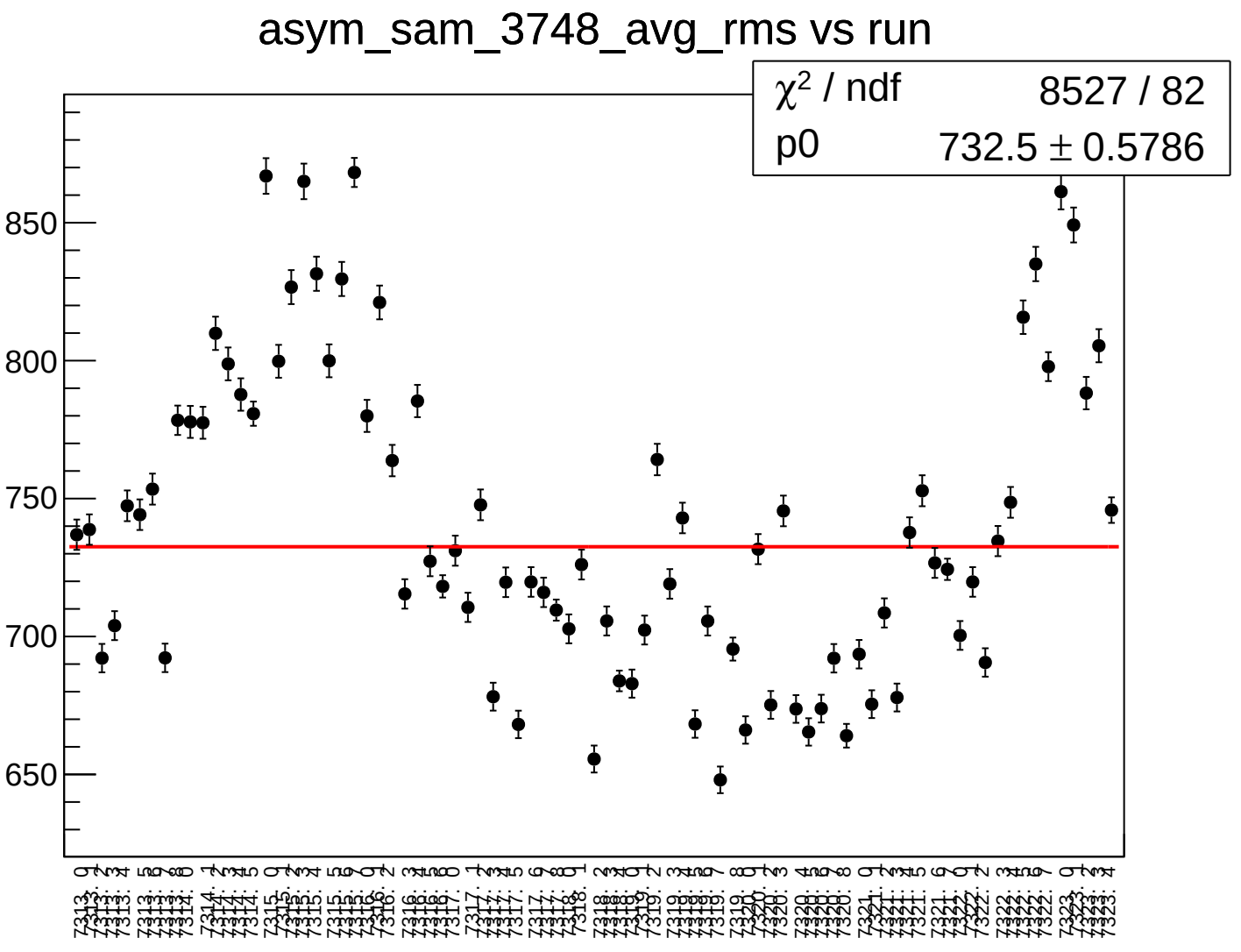

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 61.77 / 82
p0 5.231 ± 845.3
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 22.81
Std Dev 46.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

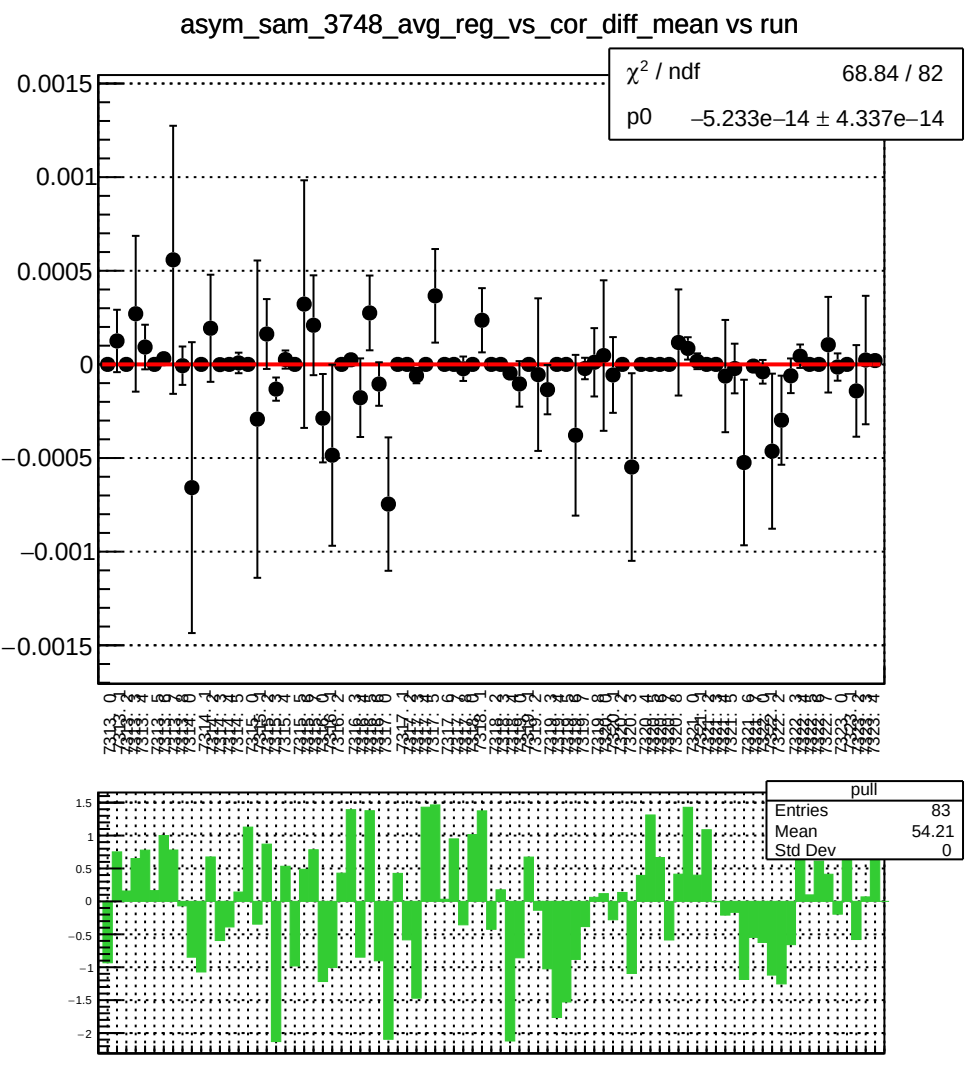

pull1D
Entries 83
Mean 0.02148
Std Dev 0.8624
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

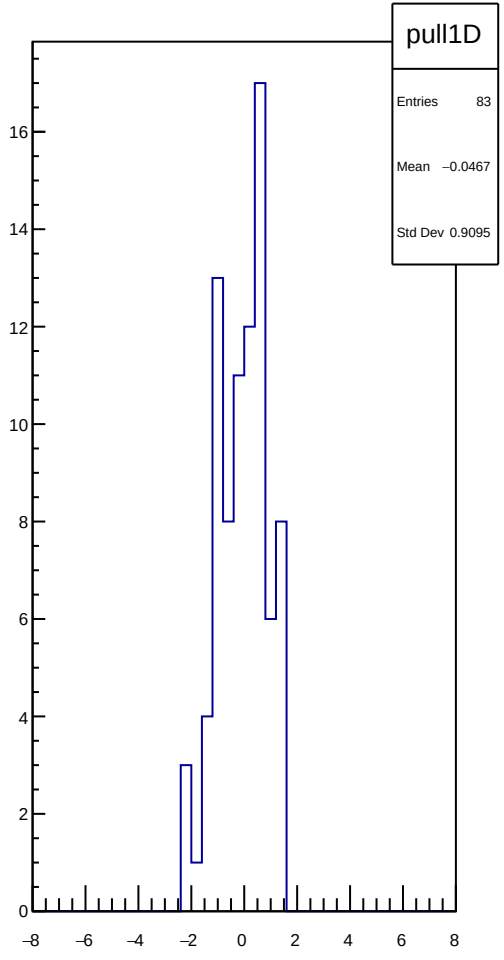

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 4294 / 82
p0 757.8 ± 0.5977
900
850
800
750
700

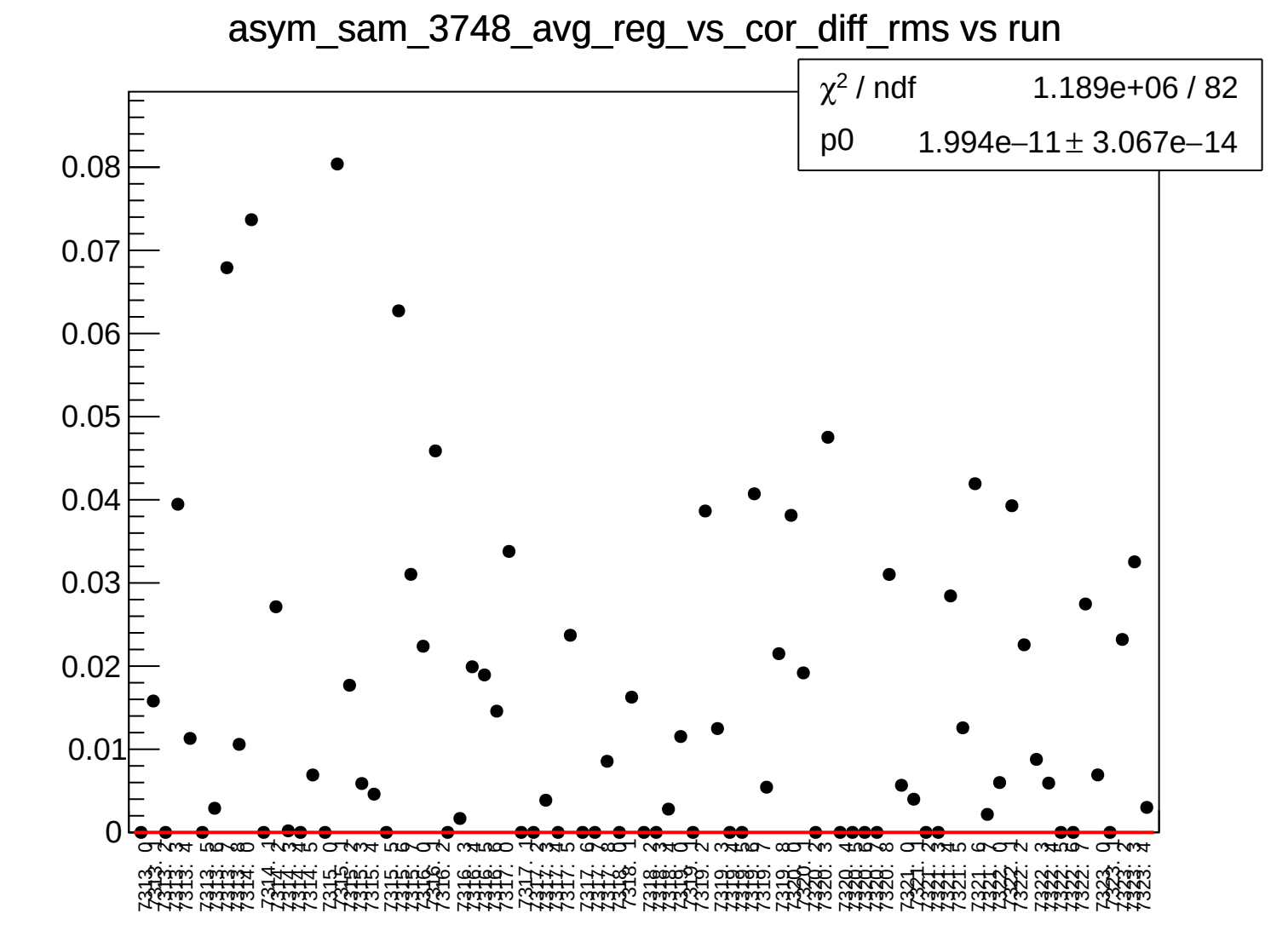

asym_sam_3748_avg_mean vs run
χ^2 / ndf 58.65 / 82
p0 262.7 ± 818.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 45.05
Std Dev 41.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

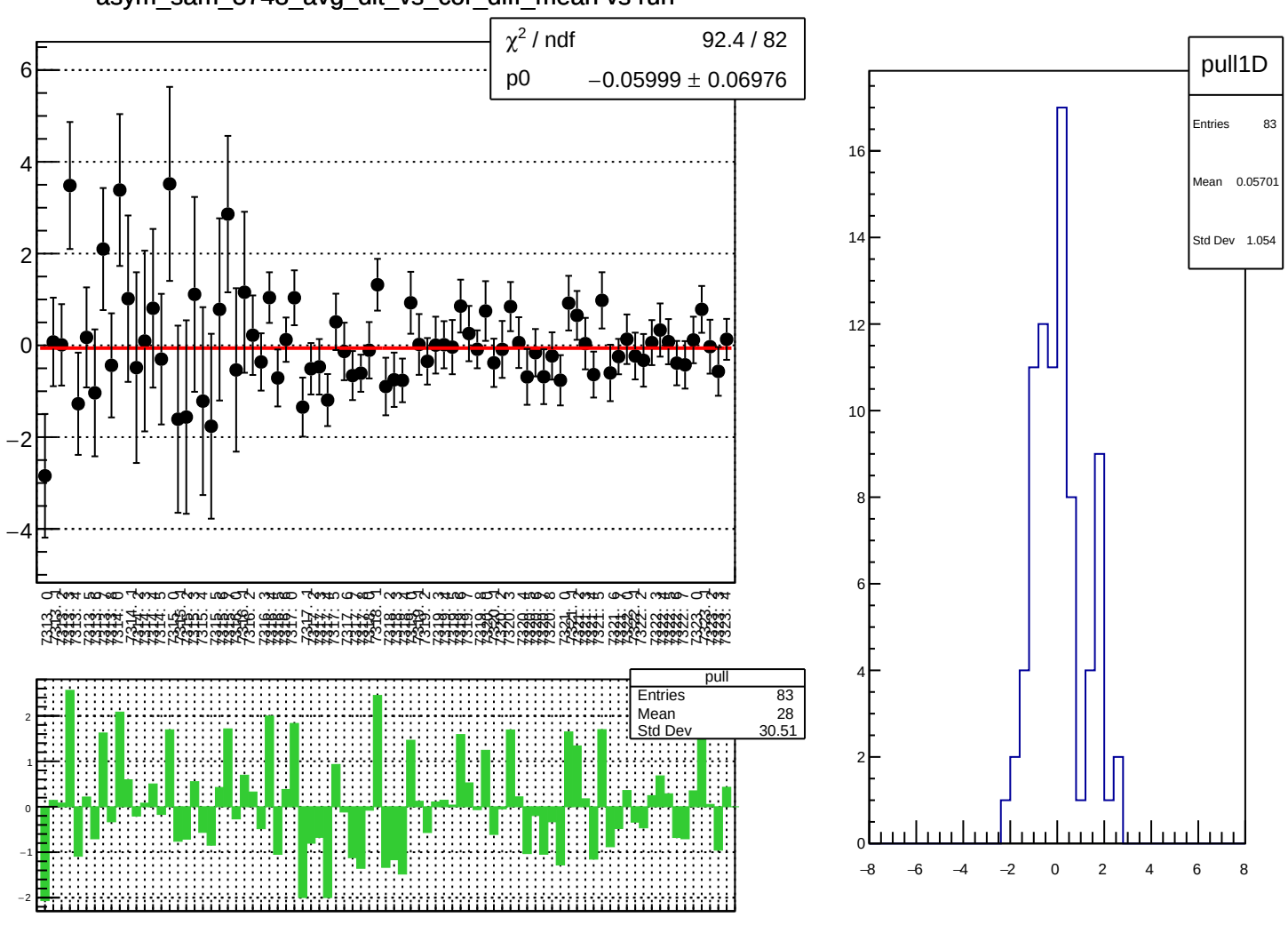

pull1D
Entries 83
Mean −0.0263
Std Dev 0.8402
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

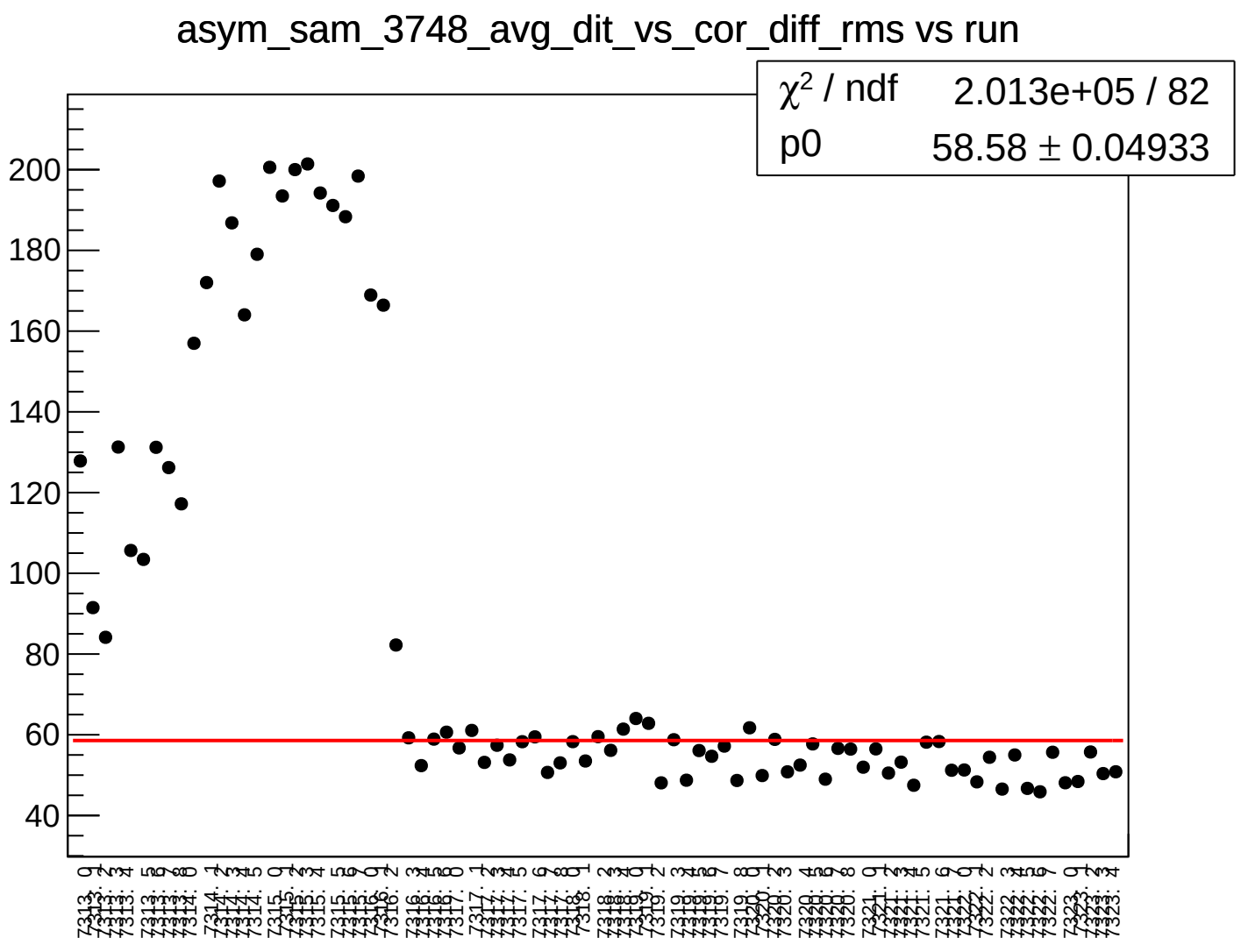

asym_sam_3748_avg_rms vs run
χ² / ndf 8527 / 82
p0 732.5 ± 0.5786
850
800
750
700
650

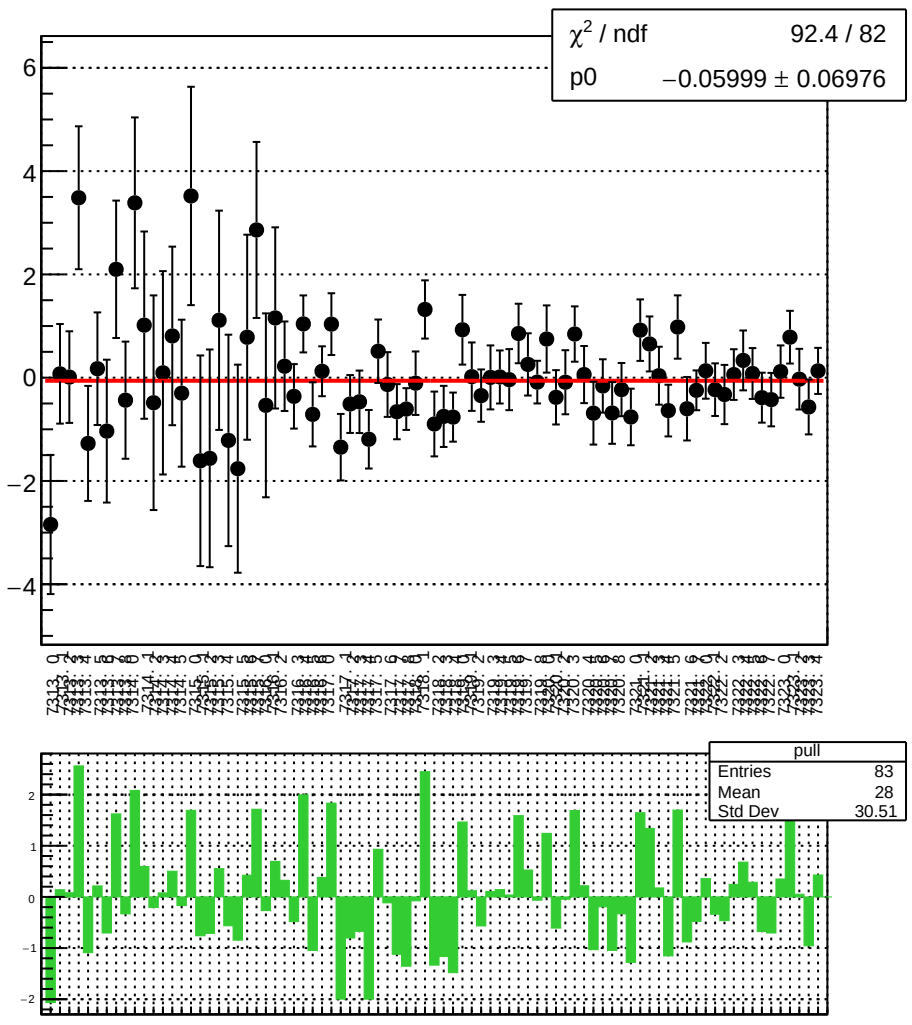

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.84 / 82
p0 −5.233e−14 ± 4.337e−14
pull
Entries 83
Mean 54.21
Std Dev 0

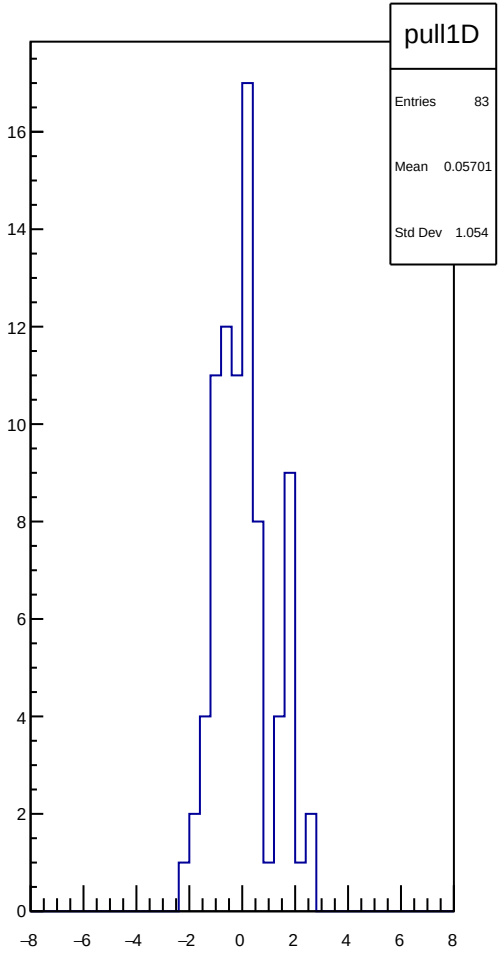

pull1D
Entries 83
Mean −0.0467
Std Dev 0.9095

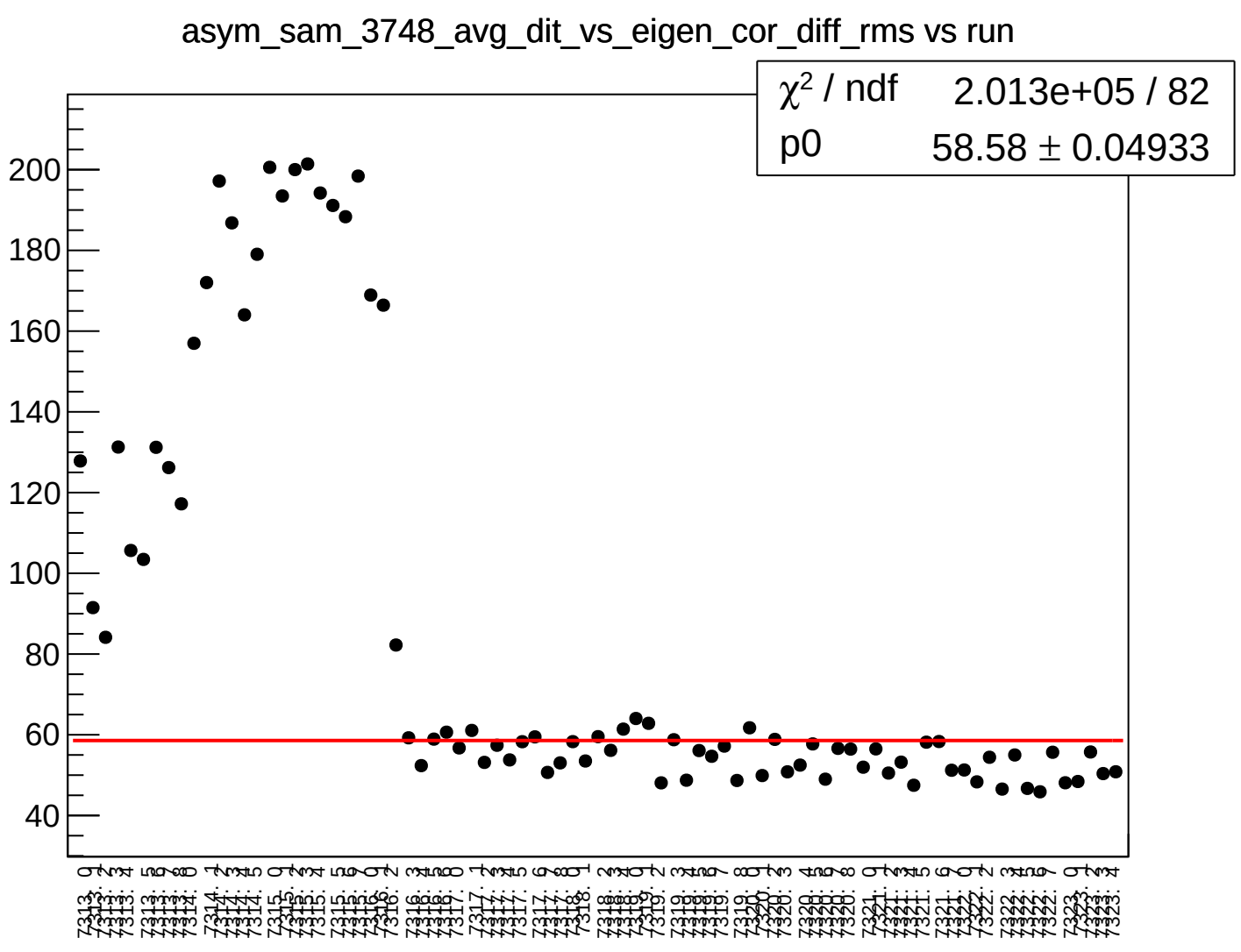

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.189e+06 / 82
p0 1.994e−11 ± 3.067e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

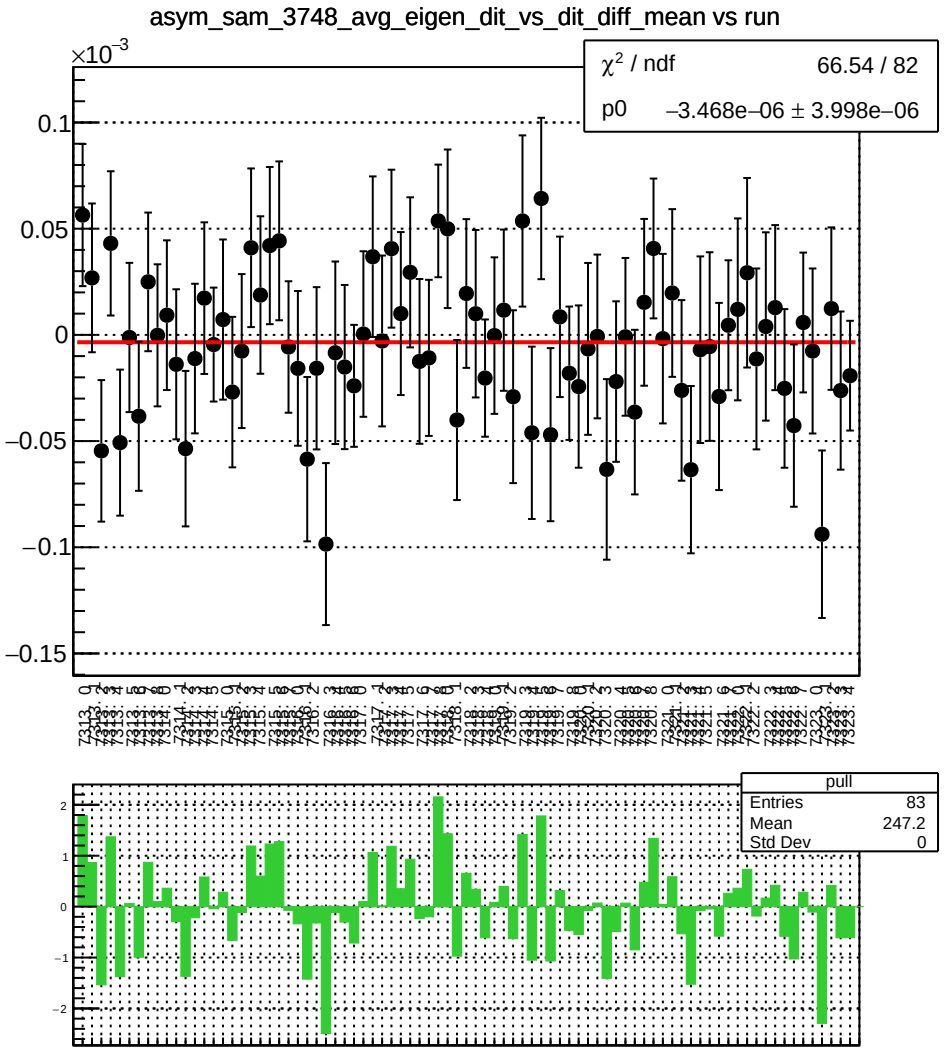

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.4 / 82
p0 −0.05999 ± 0.06976
pull
Entries 83
Mean 28
Std Dev 30.51
pull1D
Entries 83
Mean 0.05701
Std Dev 1.054

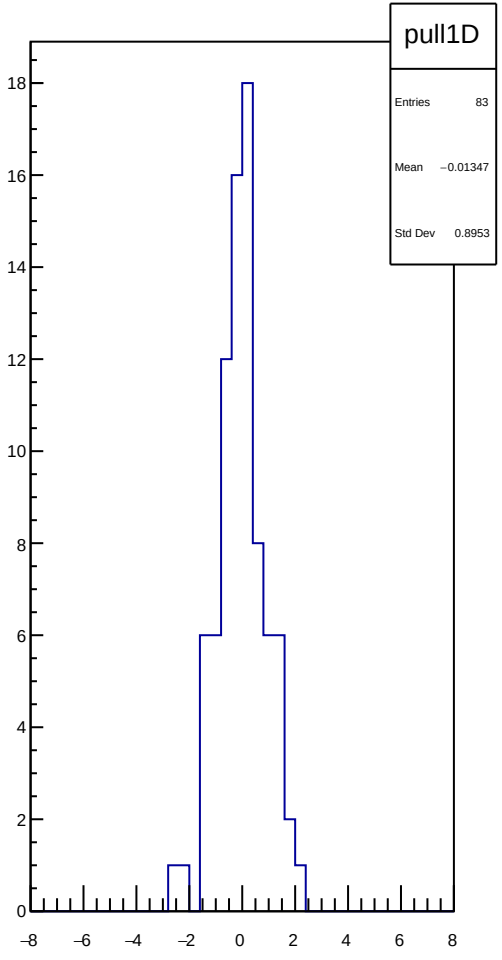

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 82
p0 58.58 ± 0.04933
200
180
160
140
120
100
80
60
40

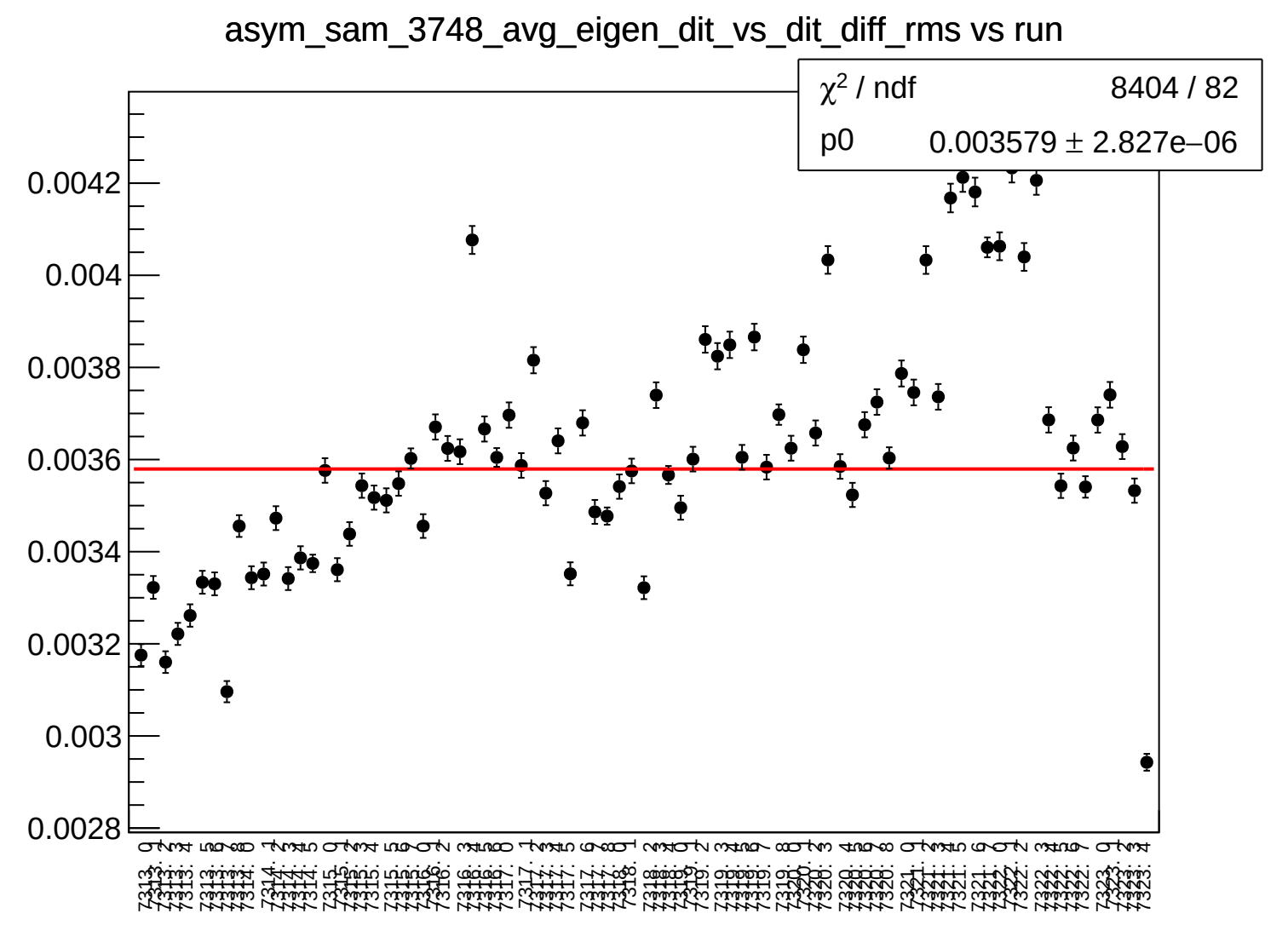

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.4 / 82
p0 −0.05999 ± 0.06976
pull
Entries 83
Mean 28
Std Dev 30.51

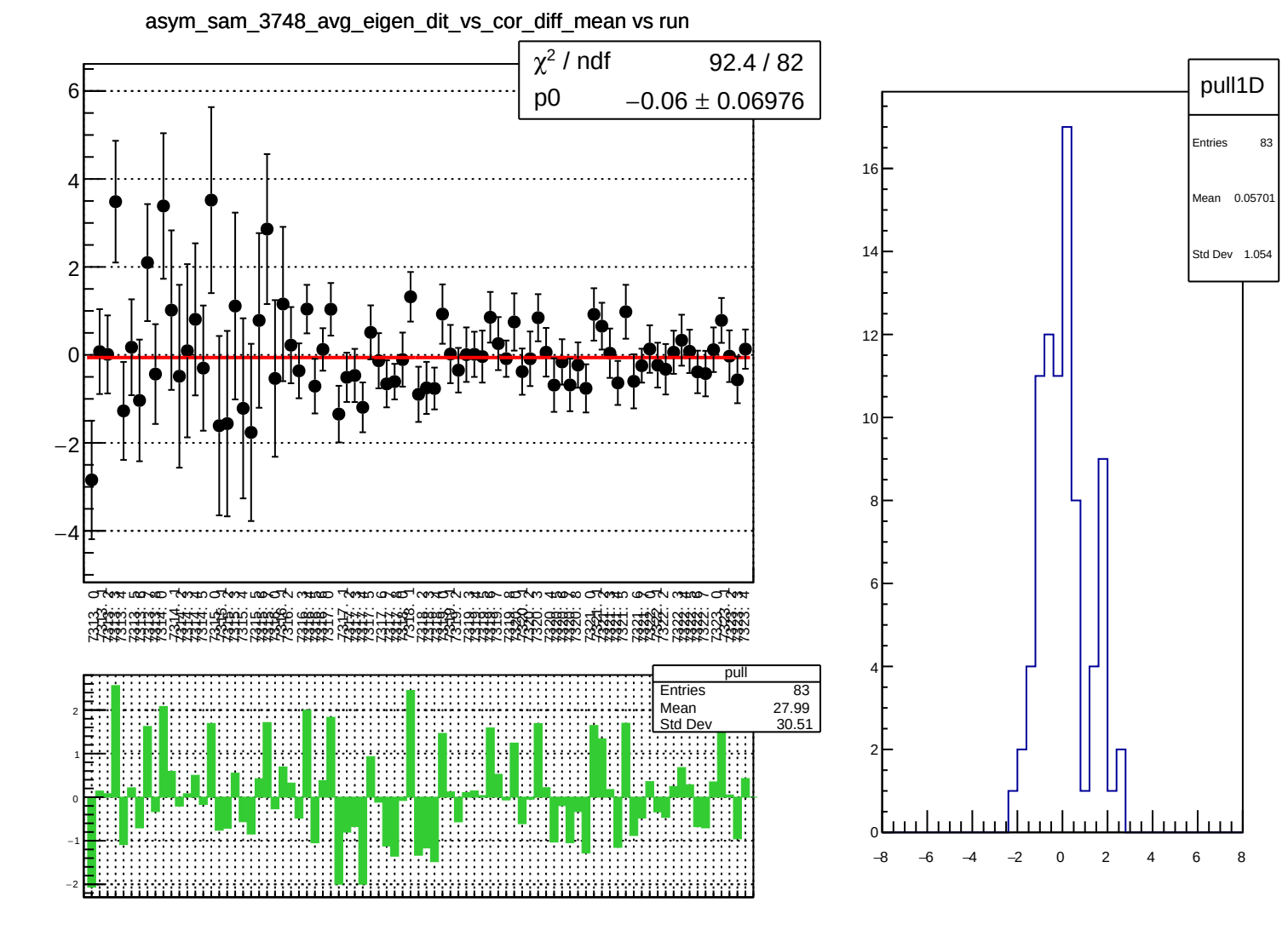

pull1D
Entries 83
Mean 0.05701
Std Dev 1.054

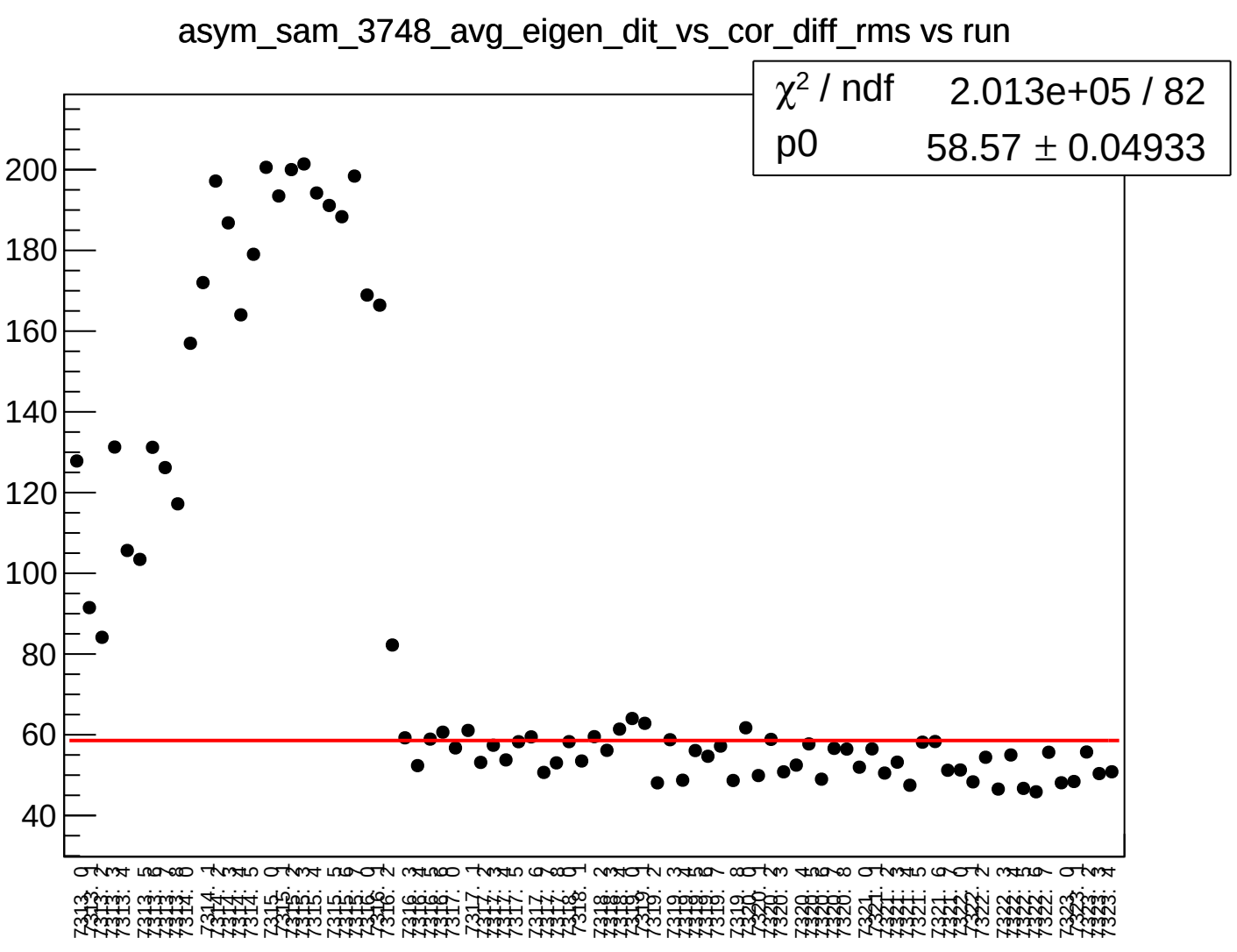

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 82
p0 58.58 ± 0.04933
200
180
160
140
120
100
80
60
40

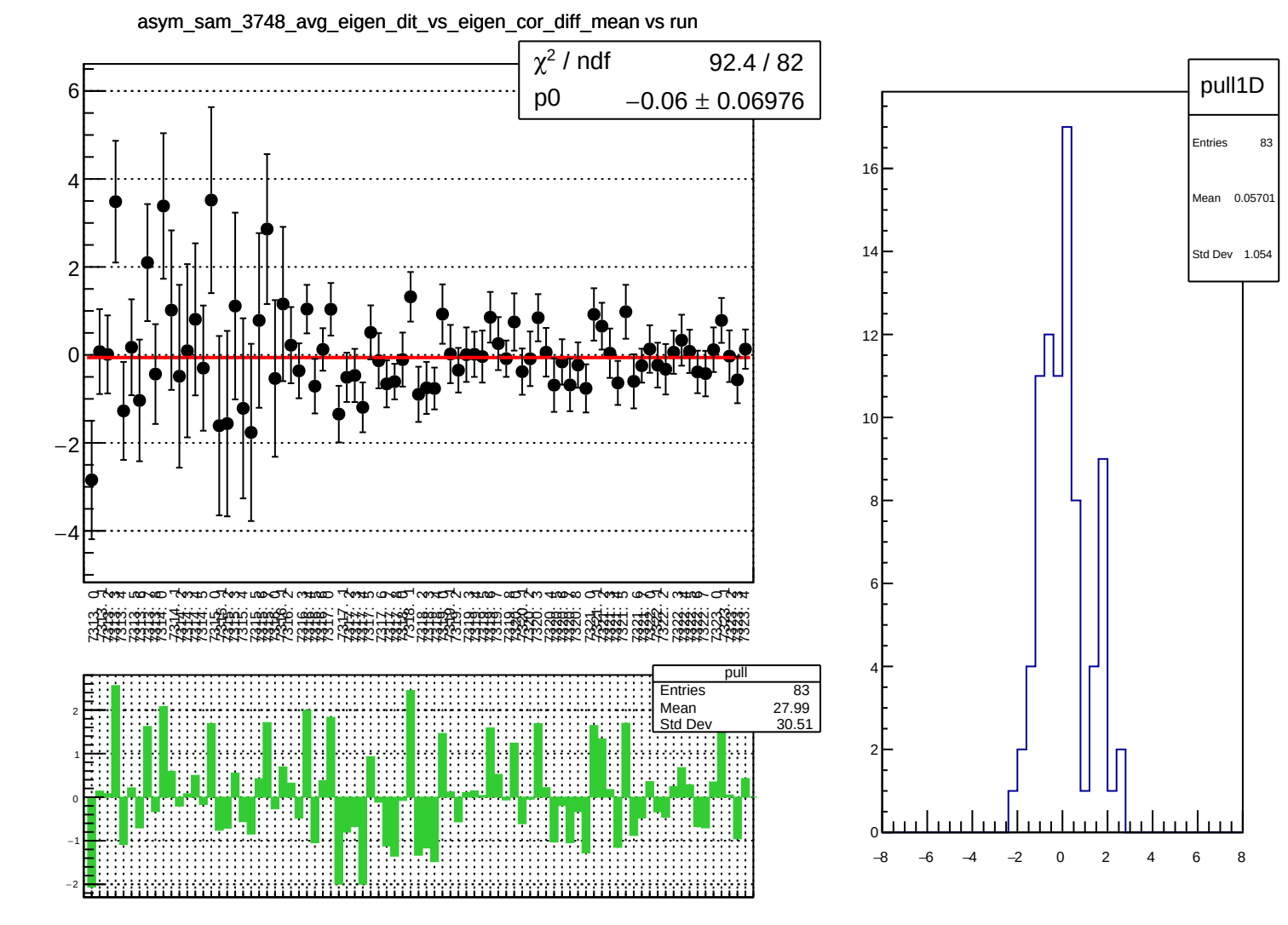

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.54 / 82
p0 −3.468e−06 ± 3.998e−06
pull
Entries 83
Mean 247.2
Std Dev 0

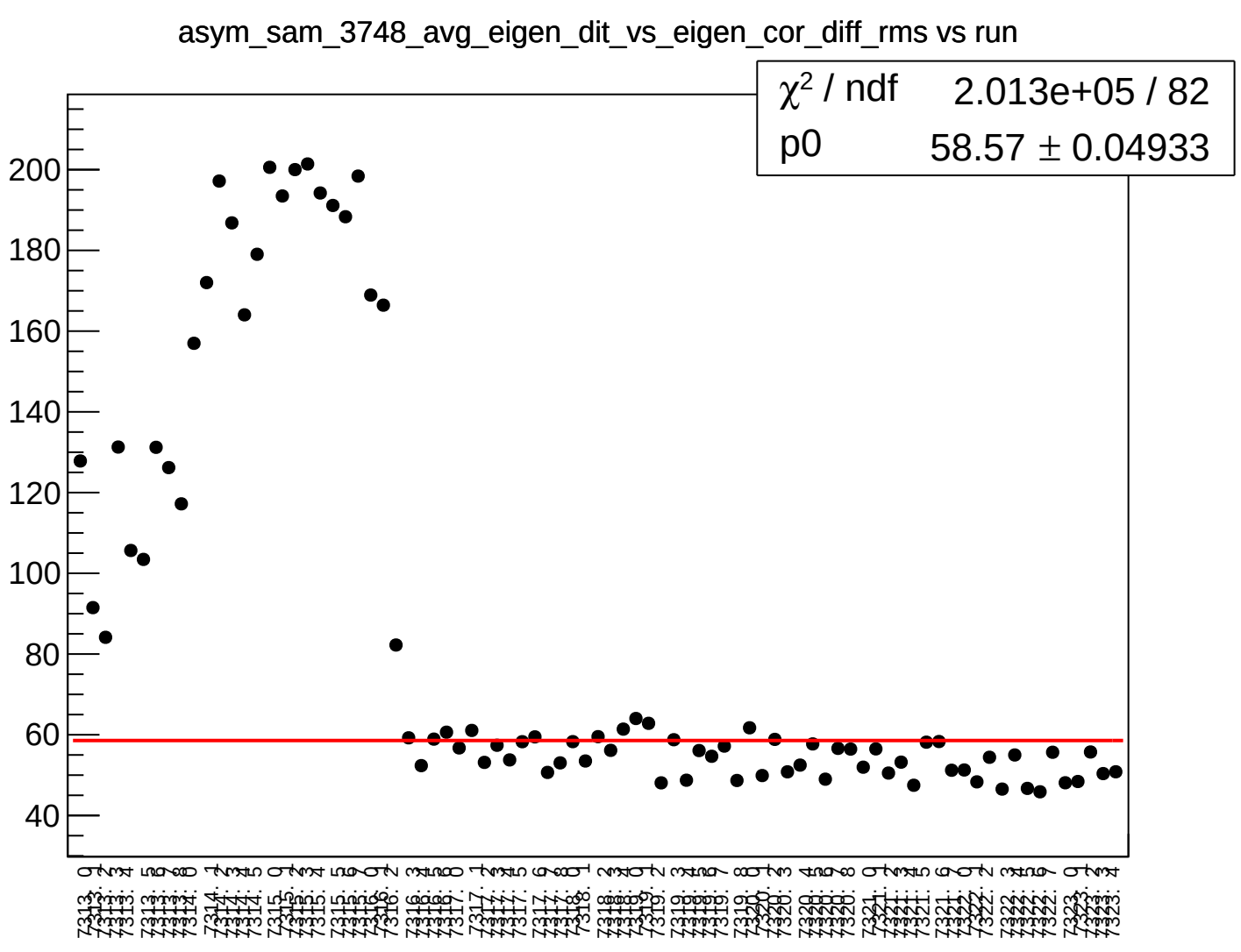

pull1D
Entries 83
Mean −0.01347
Std Dev 0.8953

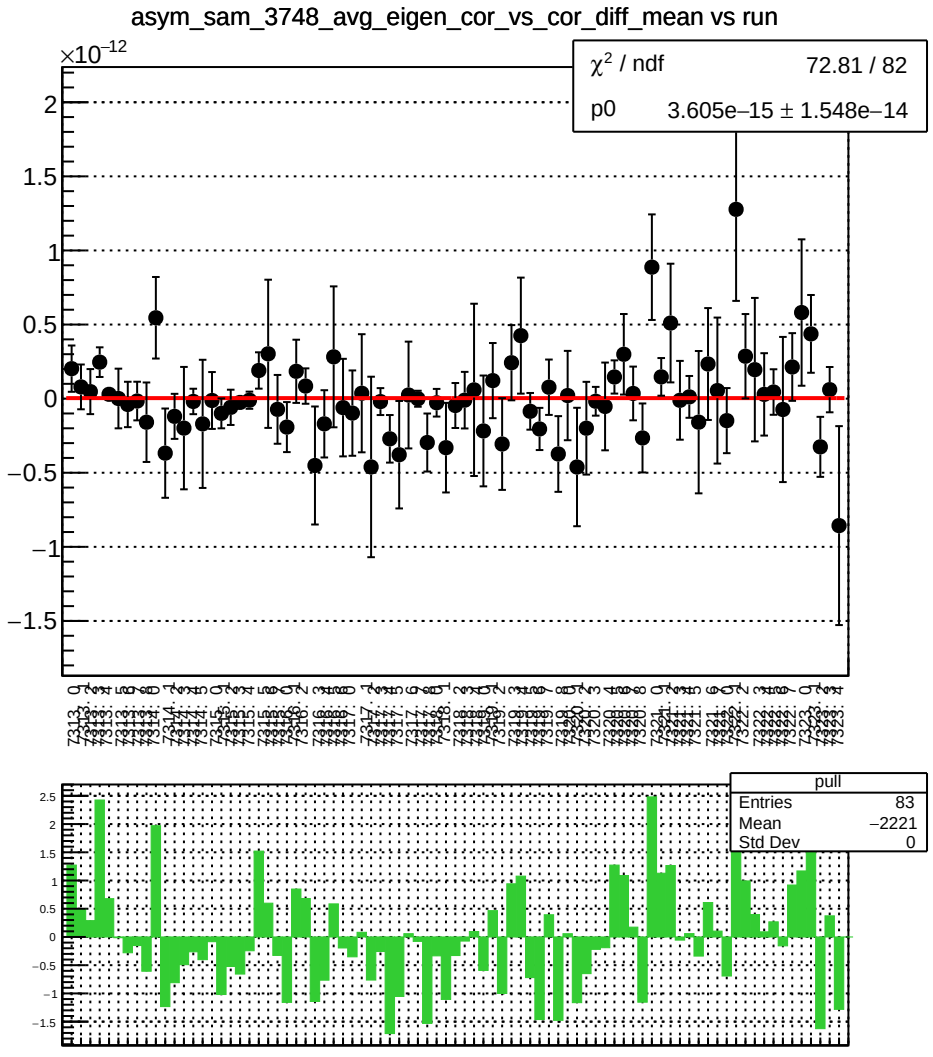

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8404 / 82
p0 0.003579 ± 2.827e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

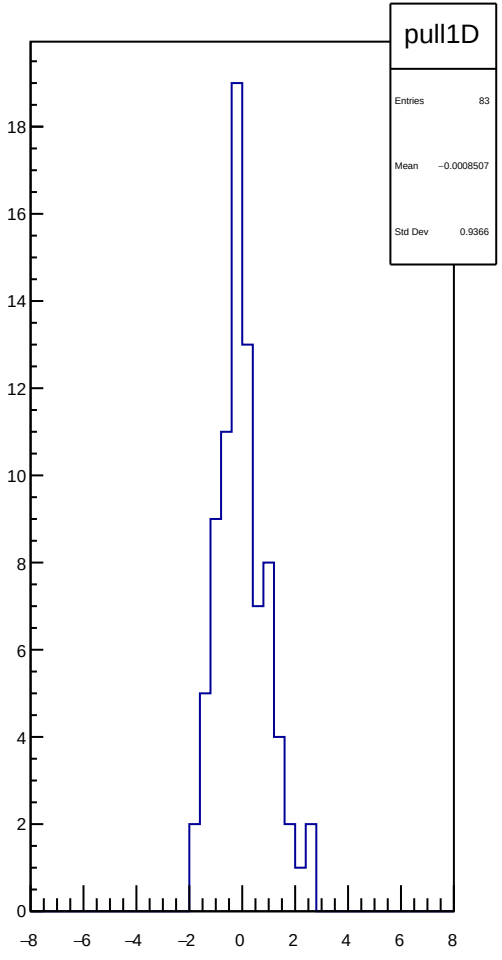

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.4 / 82
p0 −0.06 ± 0.06976
pull
Entries 83
Mean 27.99
Std Dev 30.51
pull1D
Entries 83
Mean 0.05701
Std Dev 1.054

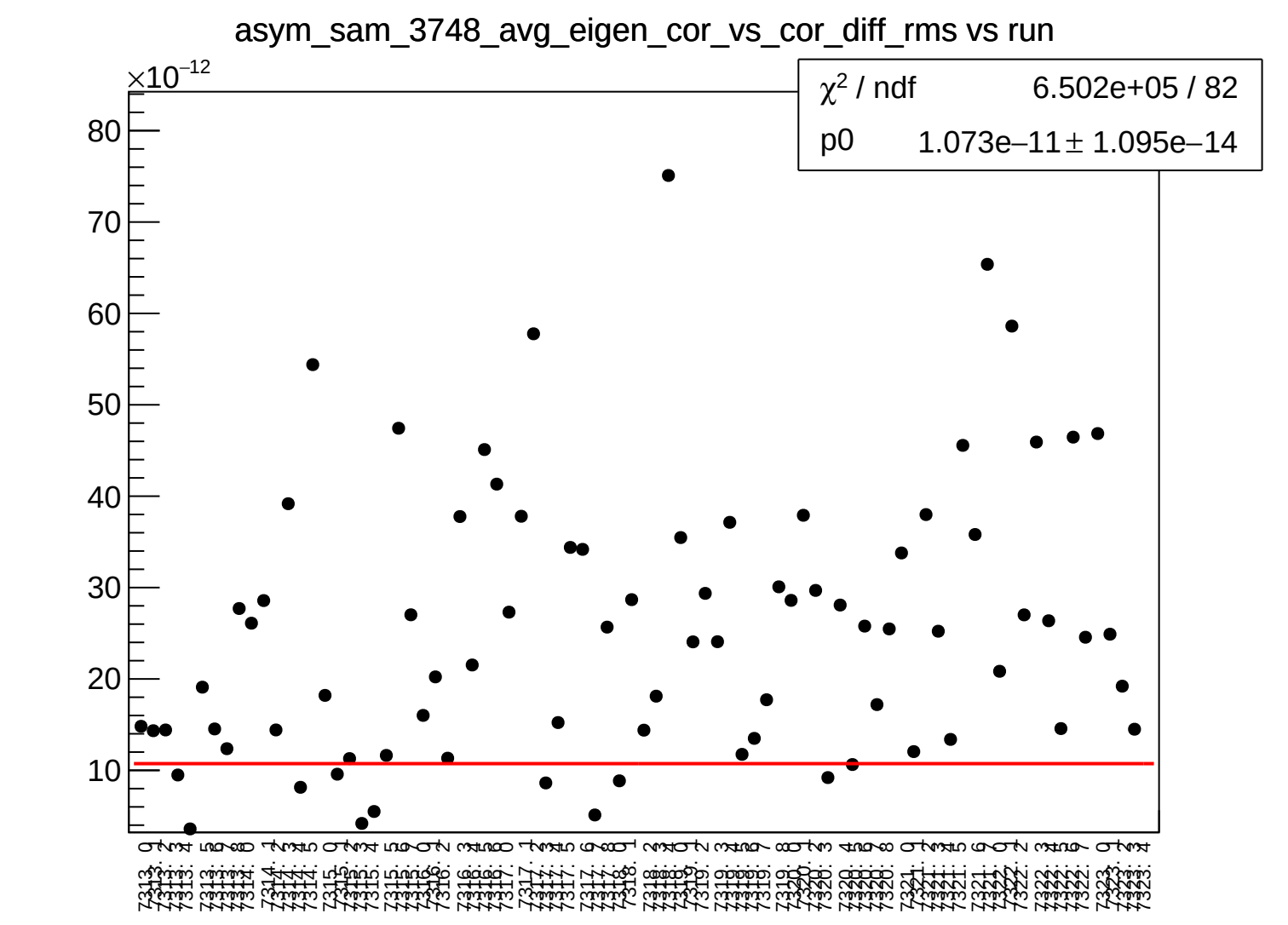

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 82
p0 58.57 ± 0.04933
200
180
160
140
120
100
80
60
40

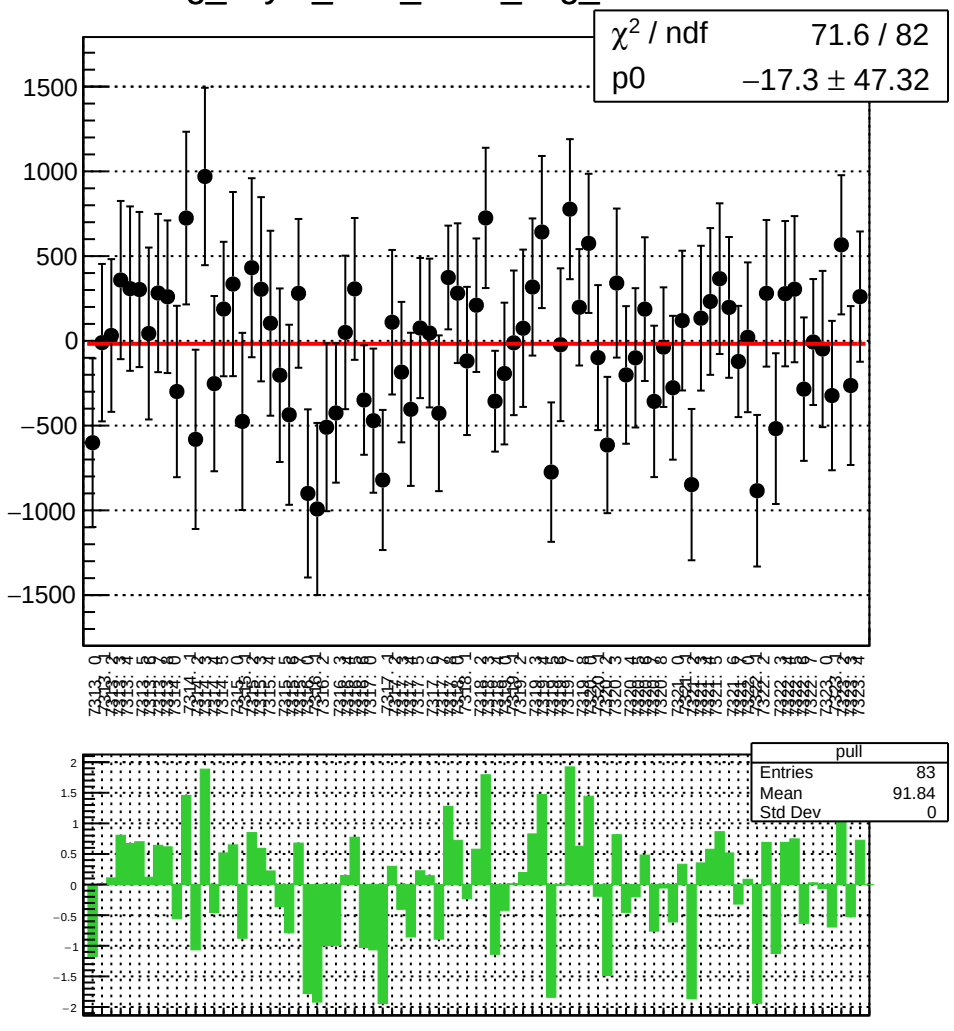

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.4 / 82
p0 −0.06 ± 0.06976
pull
Entries 83
Mean 27.99
Std Dev 30.51
pull1D
Entries 83
Mean 0.05701
Std Dev 1.054

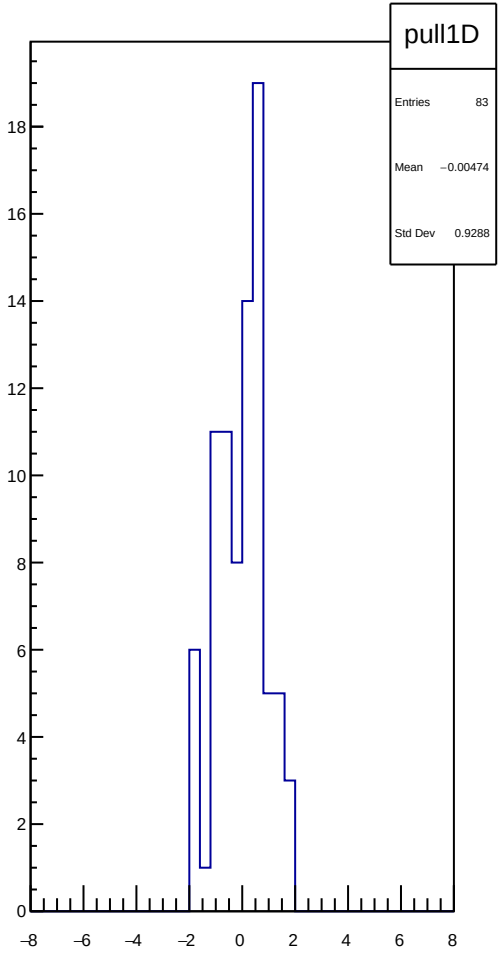

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 82
p0 58.57 ± 0.04933
200
180
160
140
120
100
80
60
40

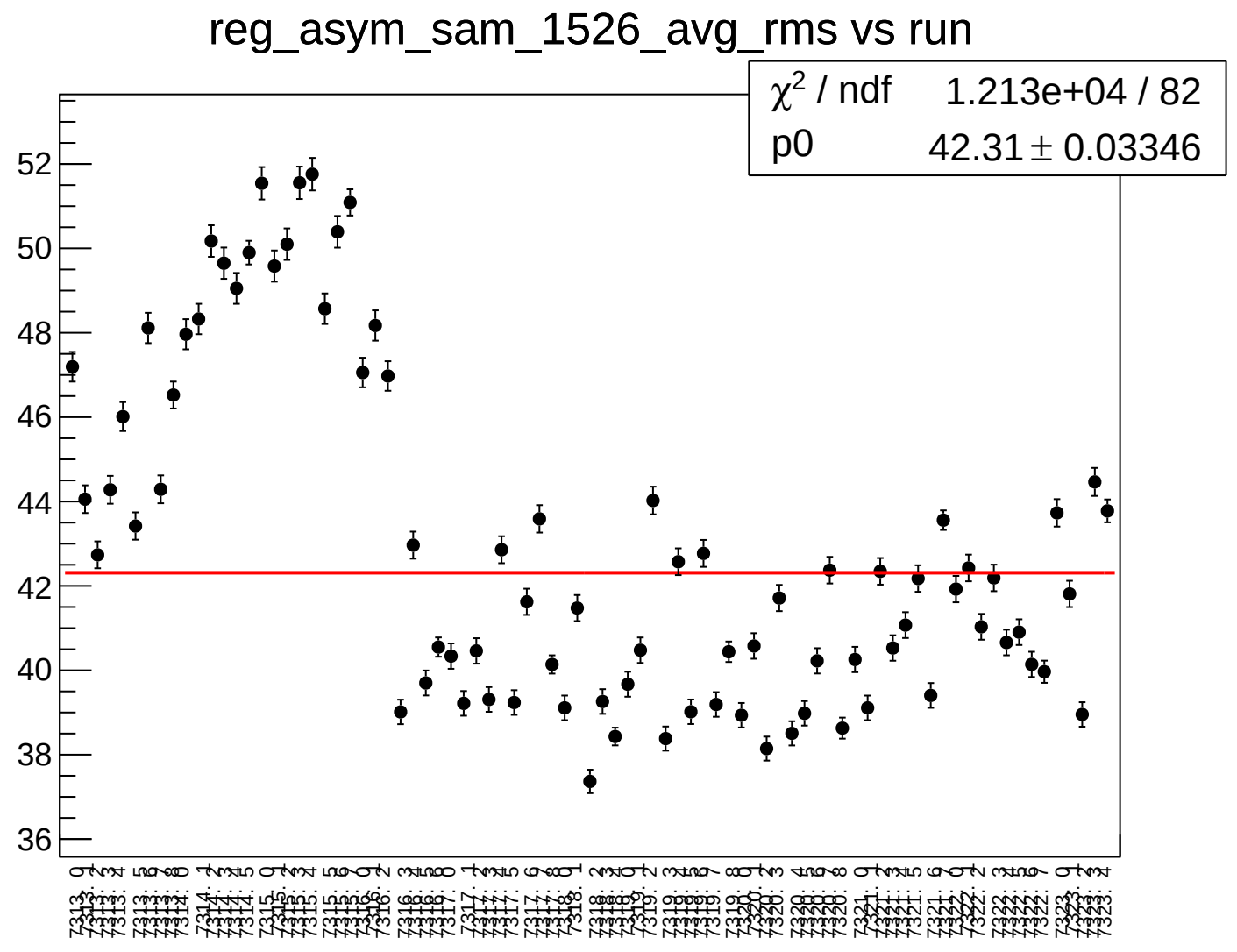

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.81 / 82
p0 3.605e−15 ± 1.548e−14
pull
Entries 83
Mean −2221
Std Dev 0

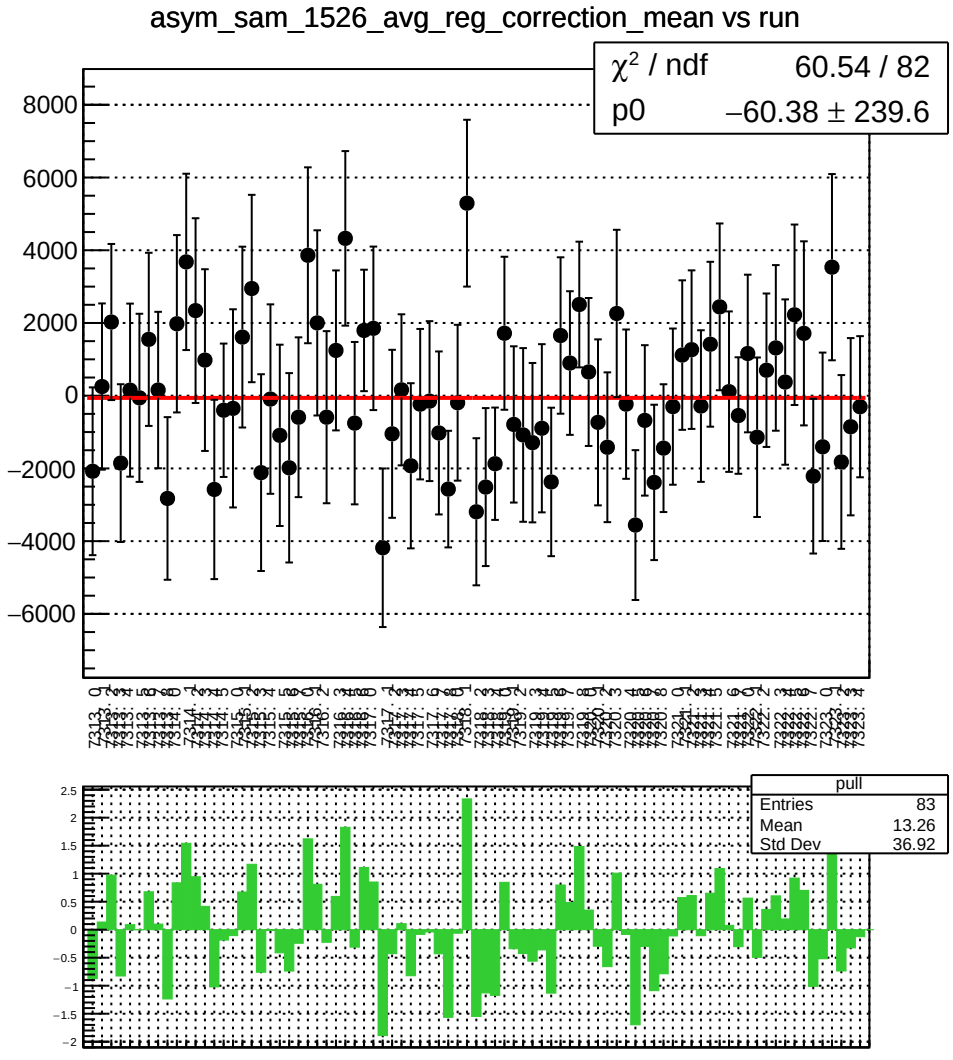

pull1D
Entries 83
Mean −0.0008507
Std Dev 0.9366

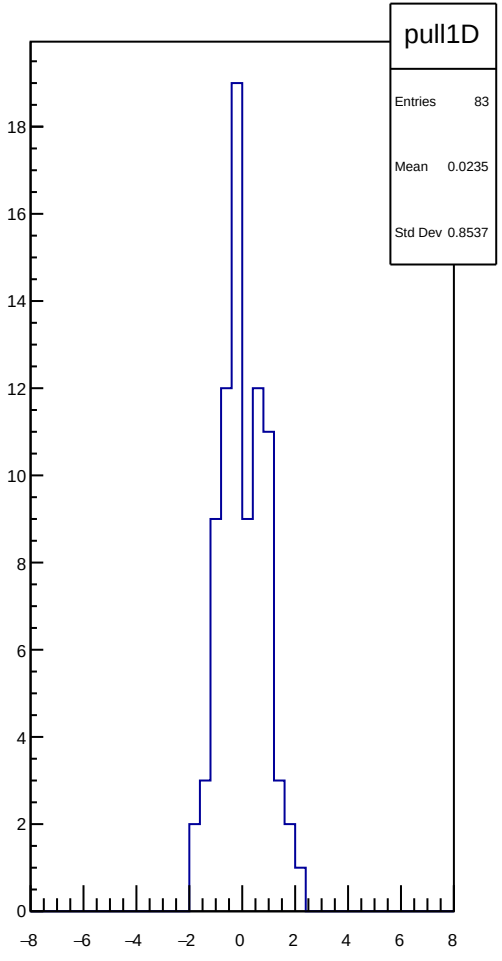

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.502e+05 / 82
p0 1.073e−11 ± 1.095e−14
80
70
60
50
40
30
20
10

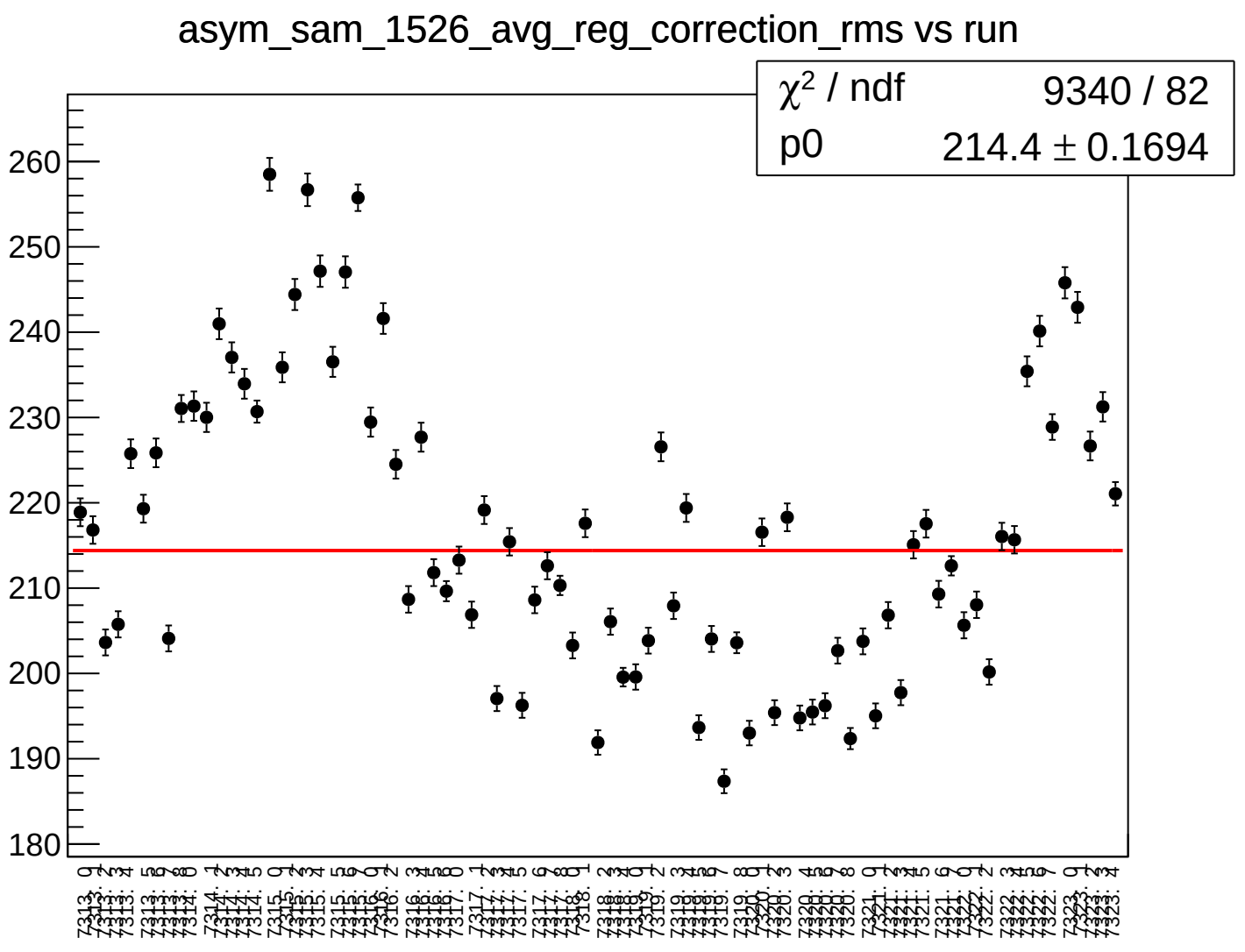

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 71.6 / 82
p0 −17.3 ± 47.32
pull
Entries 83
Mean 91.84
Std Dev 0

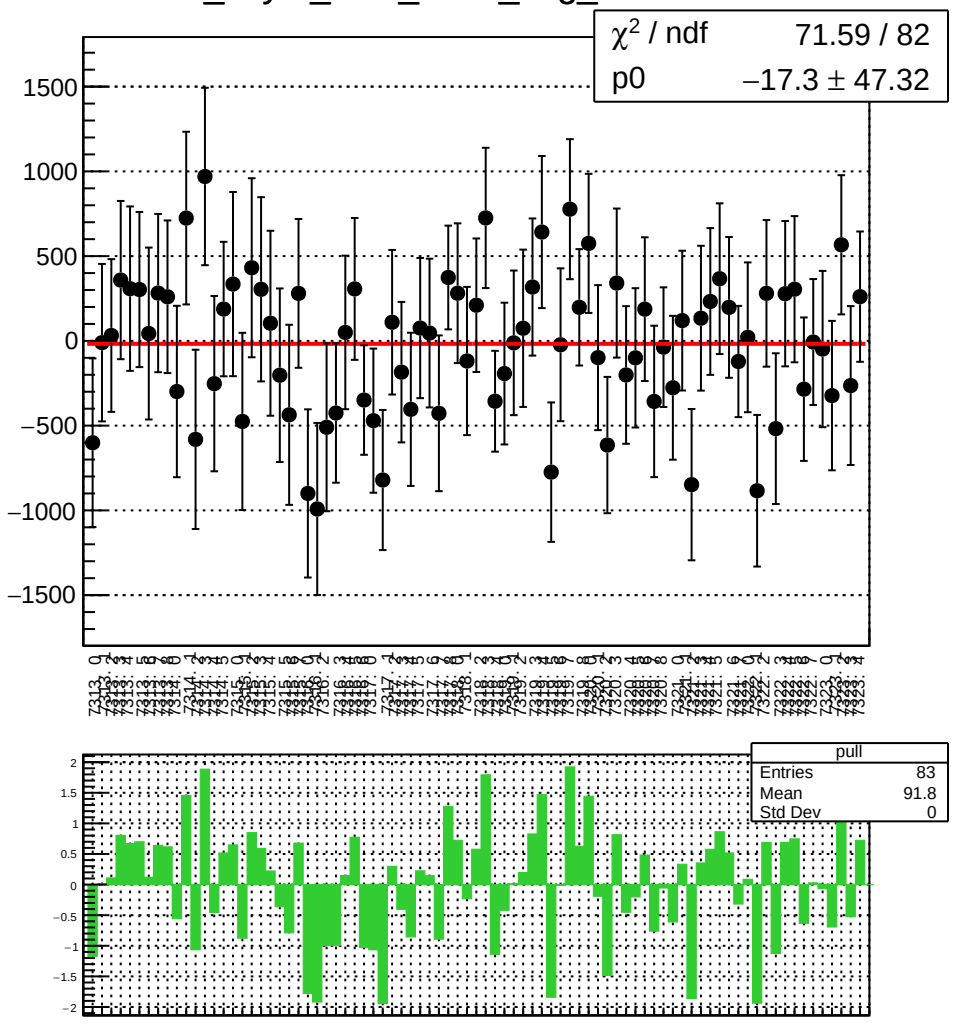

pull1D
Entries 83
Mean −0.00474
Std Dev 0.9288

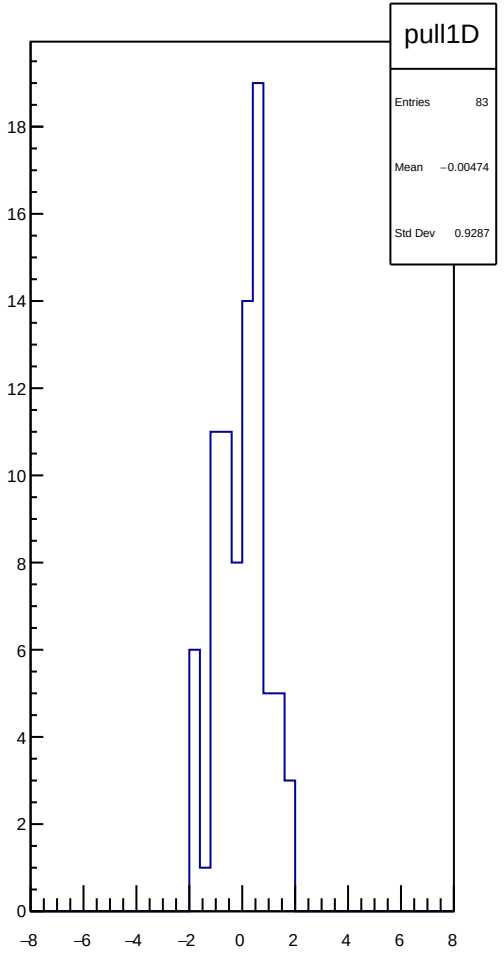

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.213e+04 / 82
p0 42.31 ± 0.03346
52
50
48
46
44
42
40
38
36

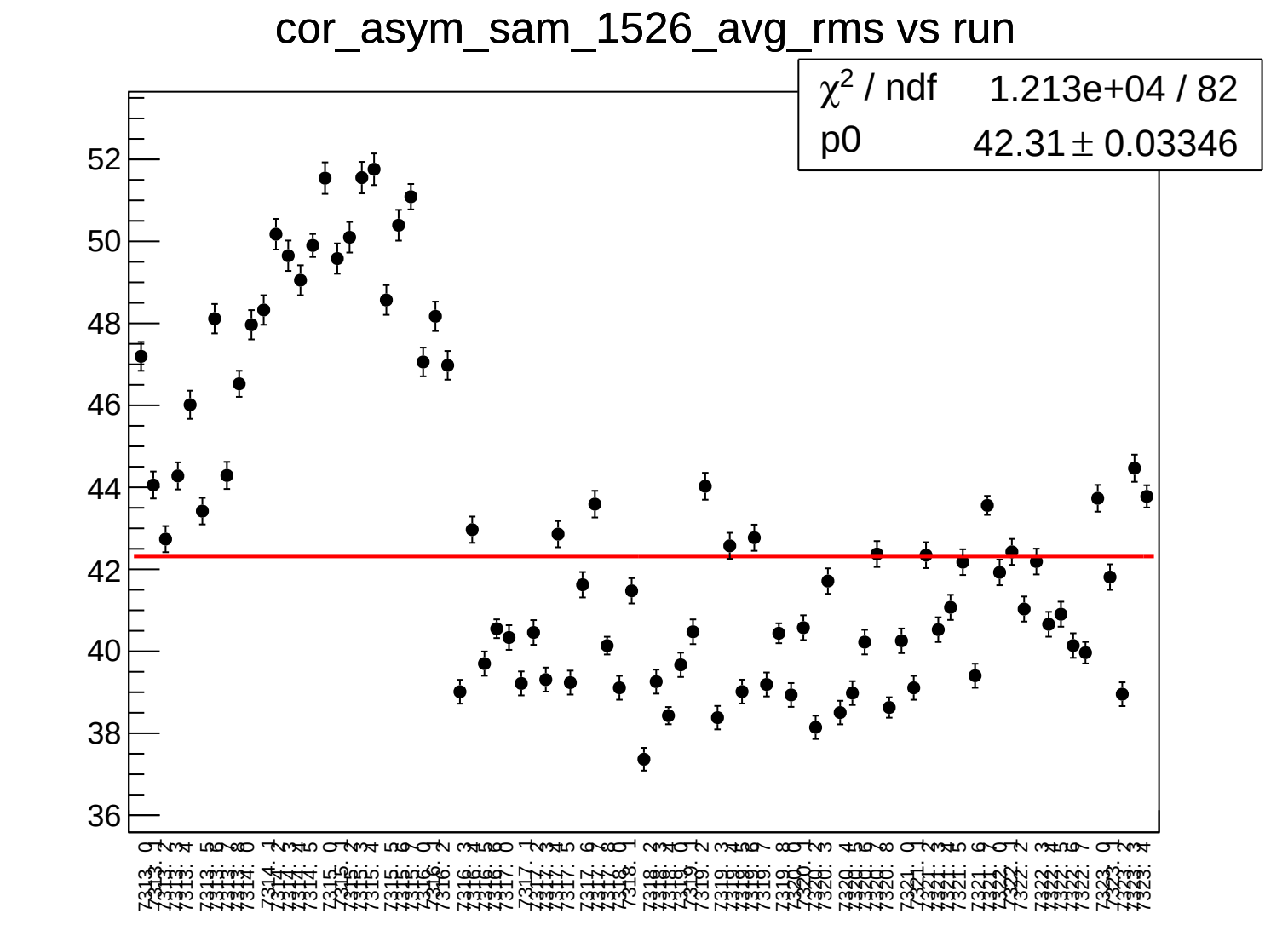

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 60.54 / 82
p0 −60.38 ± 239.6
pull
Entries 83
Mean 13.26
Std Dev 36.92

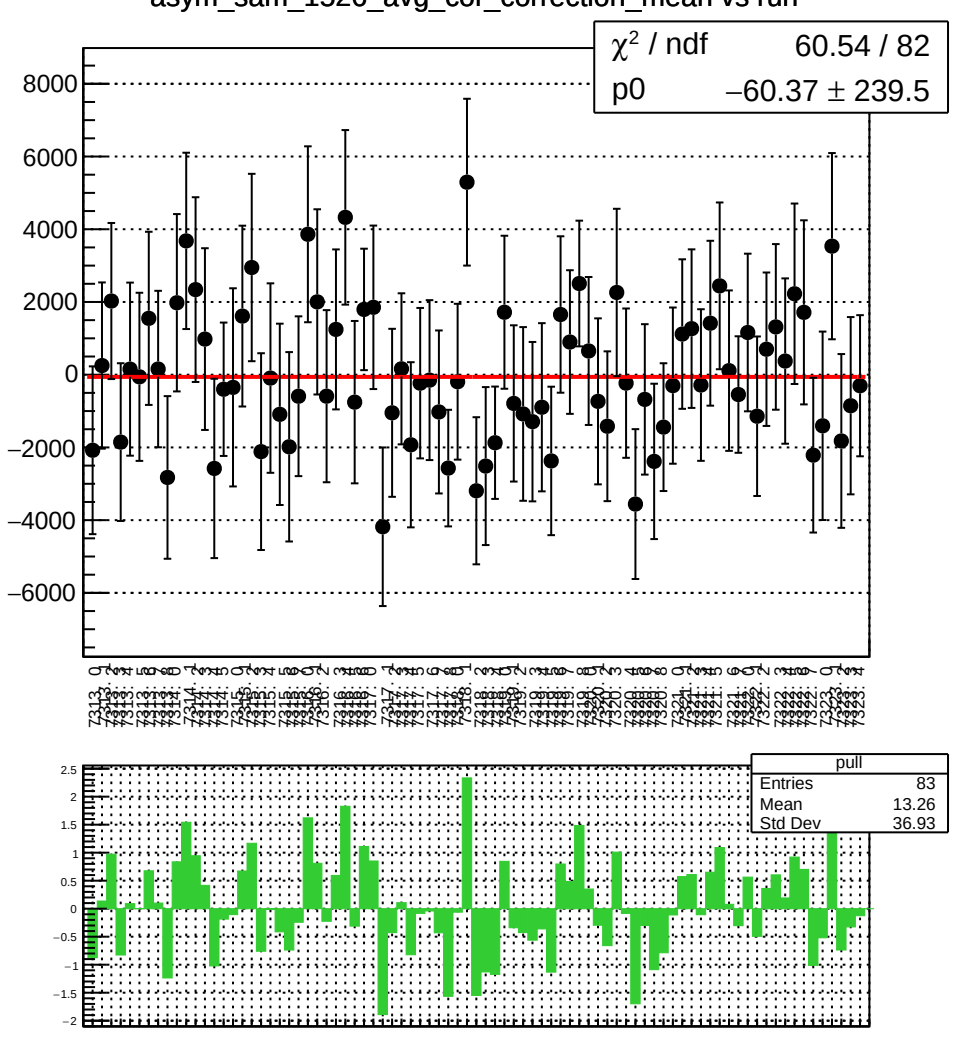

pull1D
Entries 83
Mean 0.0235
Std Dev 0.8537

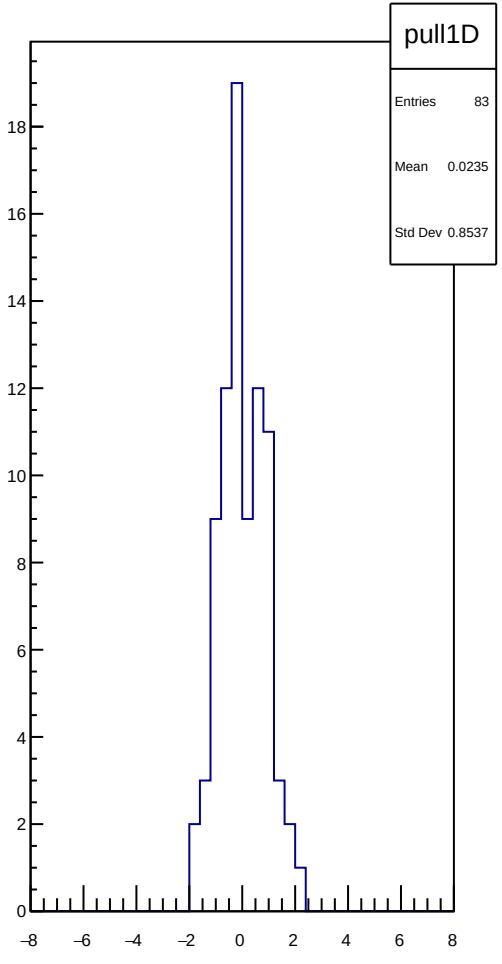

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 9340 / 82
p0 214.4 ± 0.1694
260
250
240
230
220
210
200
190
180

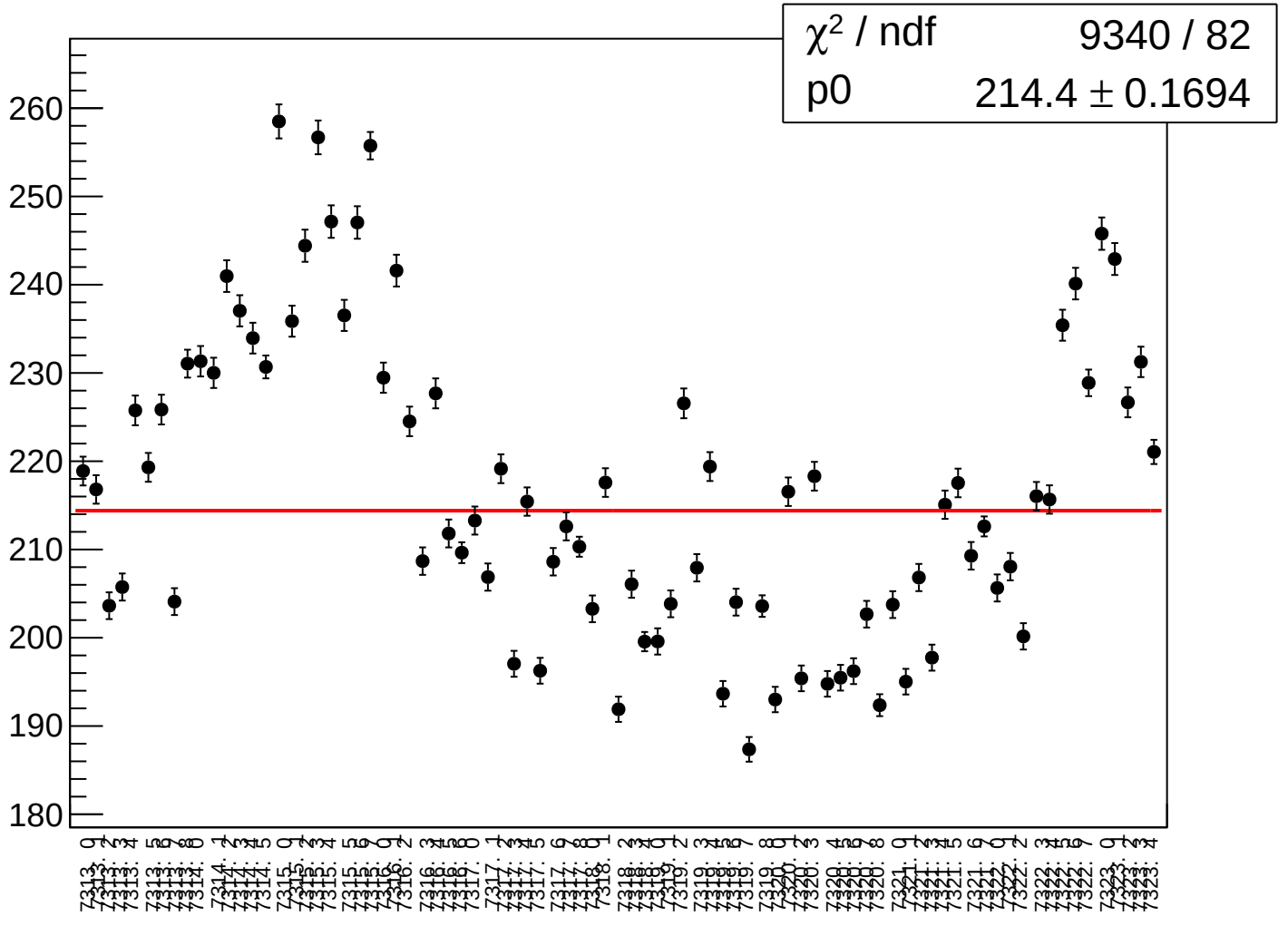

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 71.59 / 82
p0 −17.3 ± 47.32
pull
Entries 83
Mean 91.8
Std Dev 0

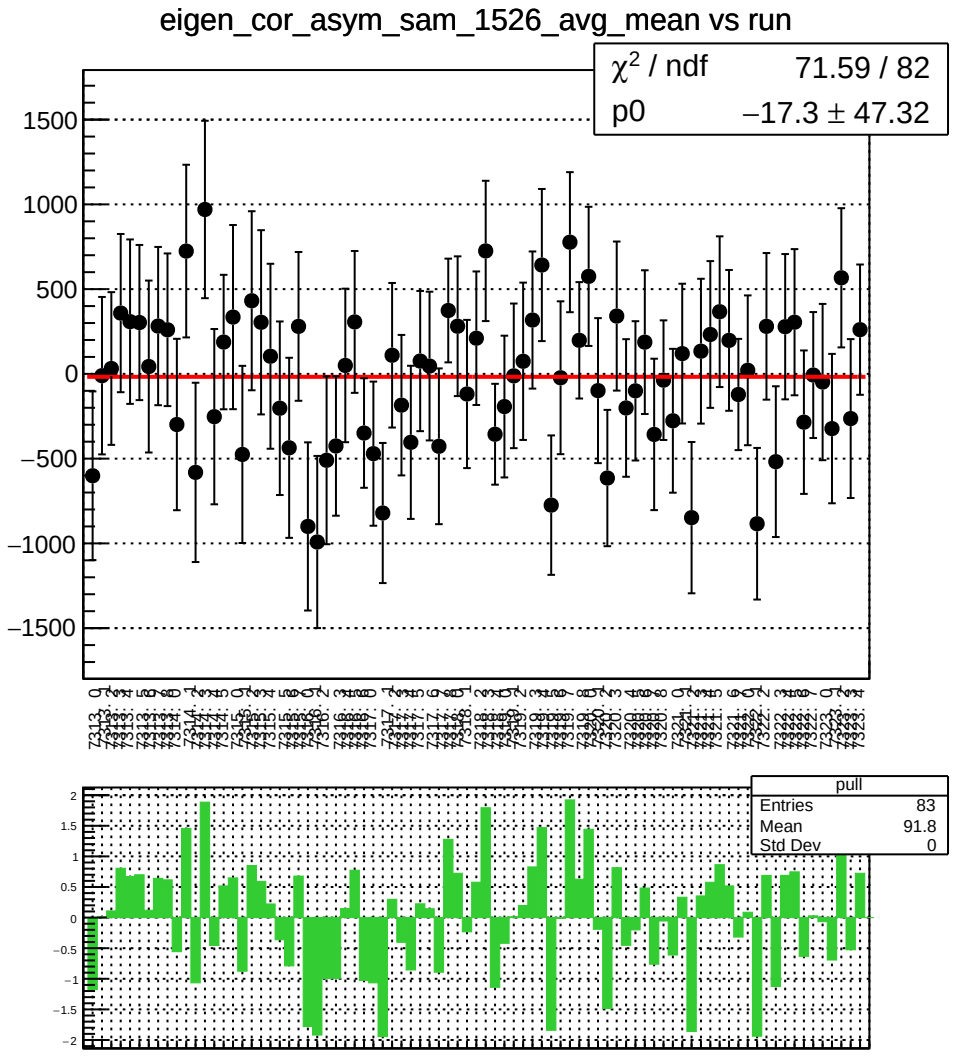

pull1D
Entries 83
Mean −0.00474
Std Dev 0.9287

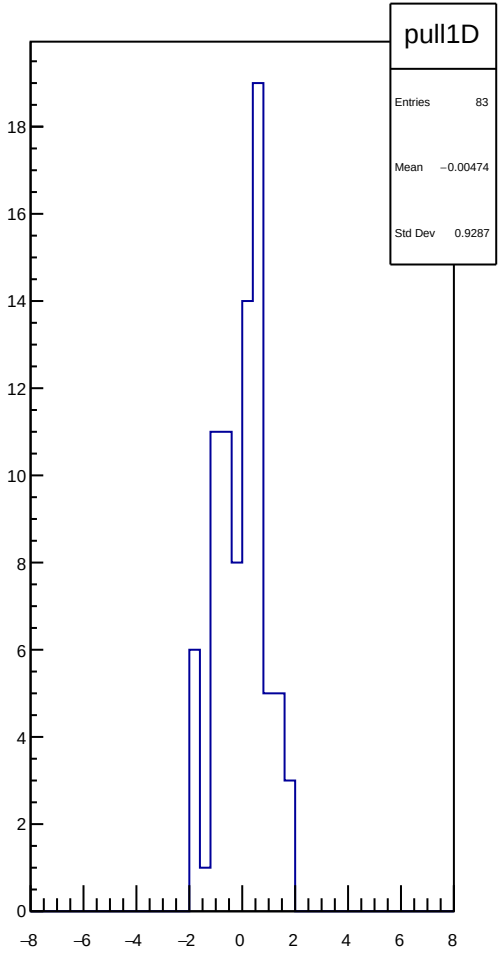

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.213e+04 / 82
p0 42.31 ± 0.03346
52
50
48
46
44
42
40
38
36

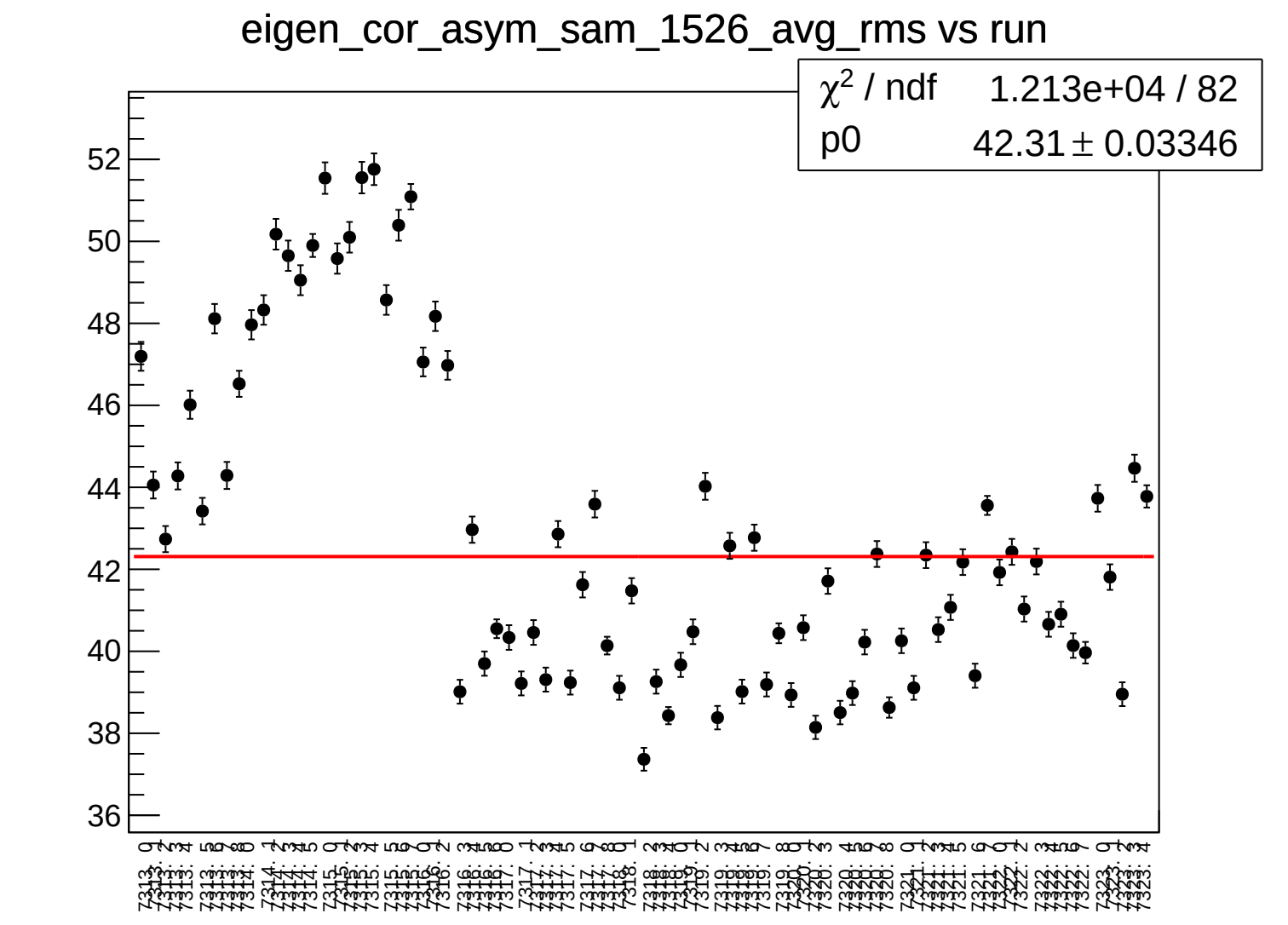

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 60.54 / 82
p0 −60.37 ± 239.5
pull
Entries 83
Mean 13.26
Std Dev 36.93

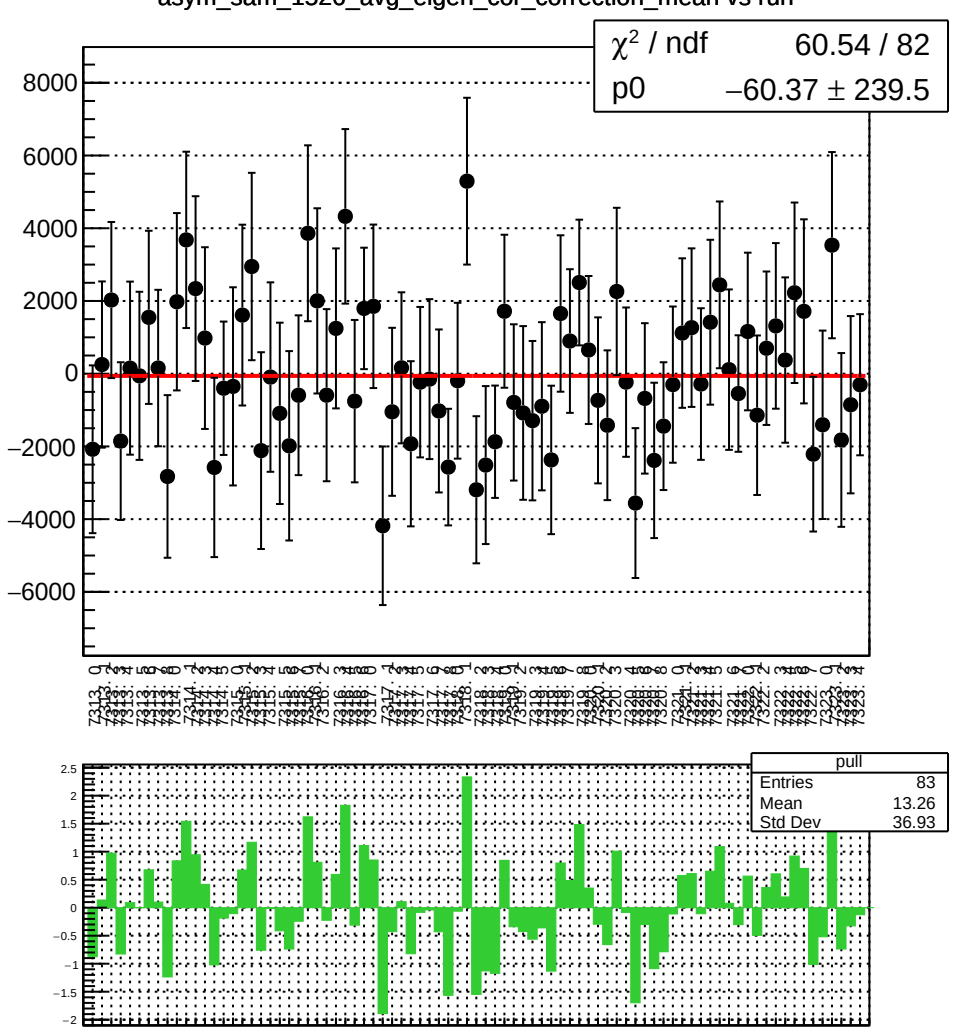

pull1D
Entries 83
Mean 0.0235
Std Dev 0.8537

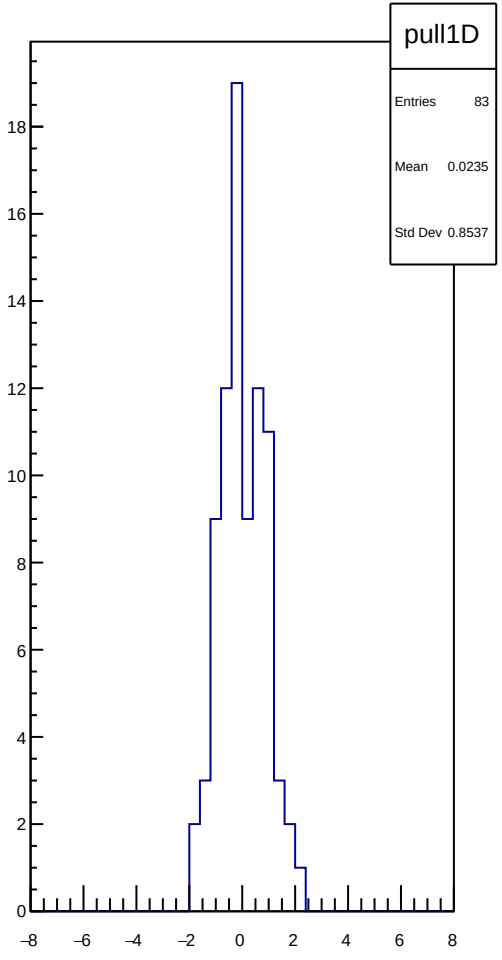

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 9340 / 82
p0 214.4 ± 0.1694
260
250
240
230
220
210
200
190
180

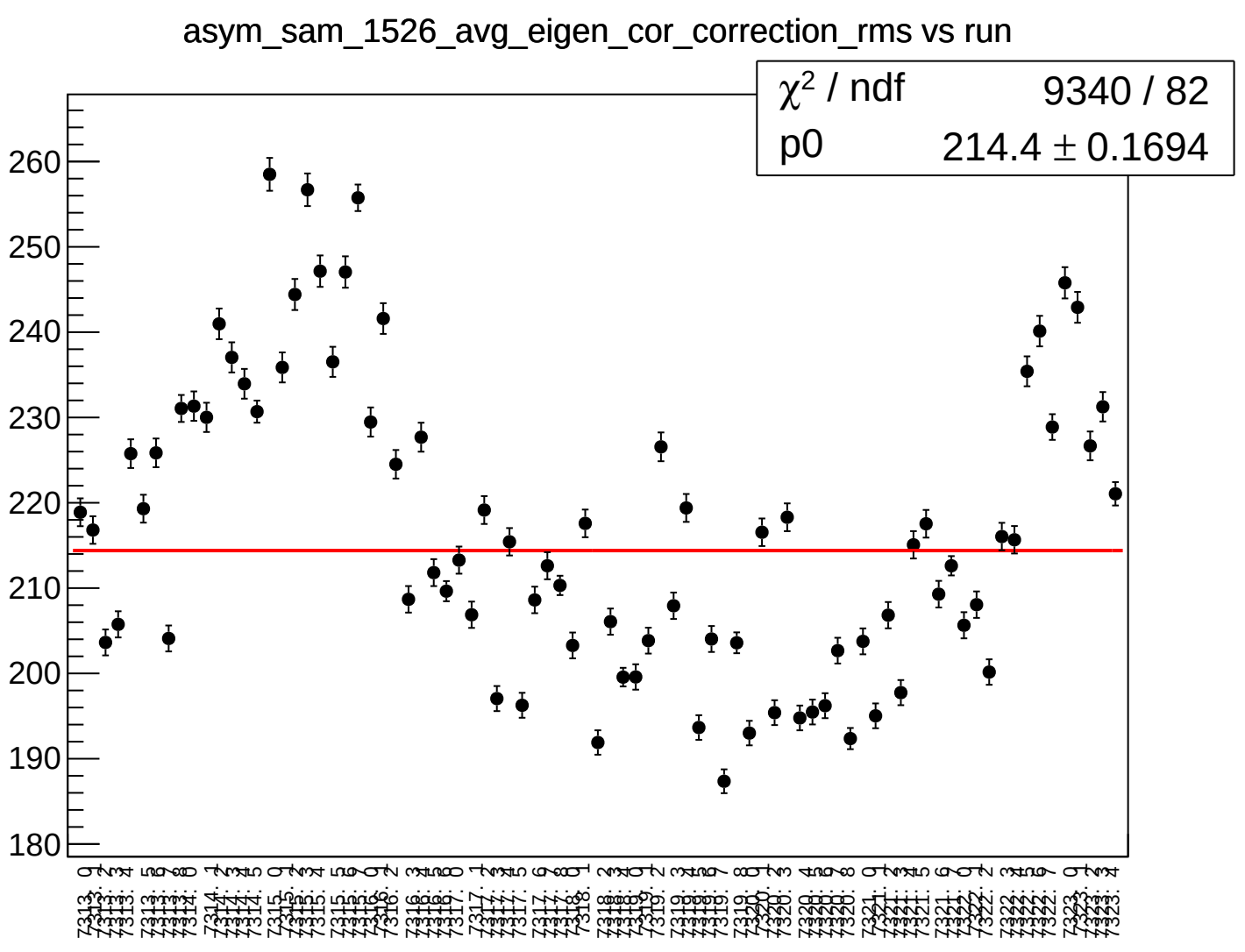

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 71.59 / 82
p0 −17.3 ± 47.32
pull
Entries 83
Mean 91.8
Std Dev 0

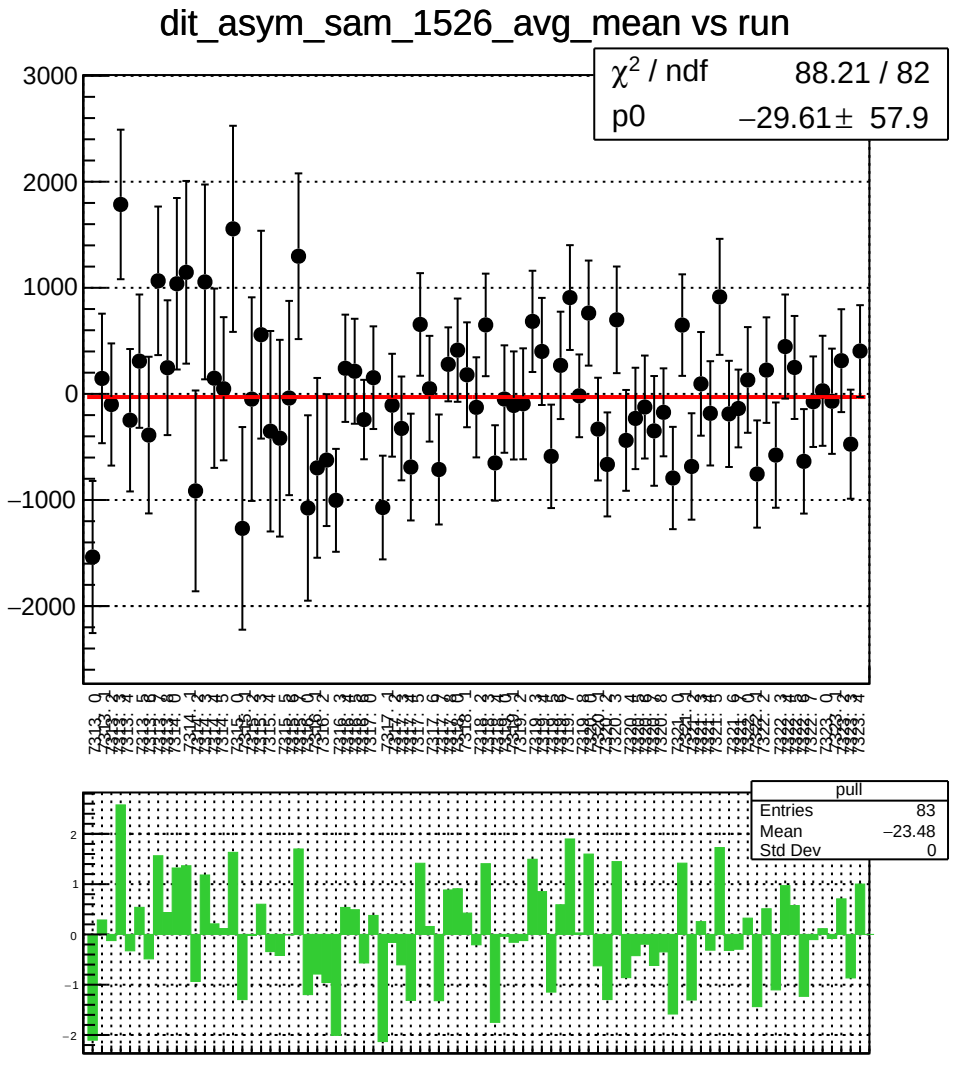

pull1D
Entries 83
Mean −0.00474
Std Dev 0.9287

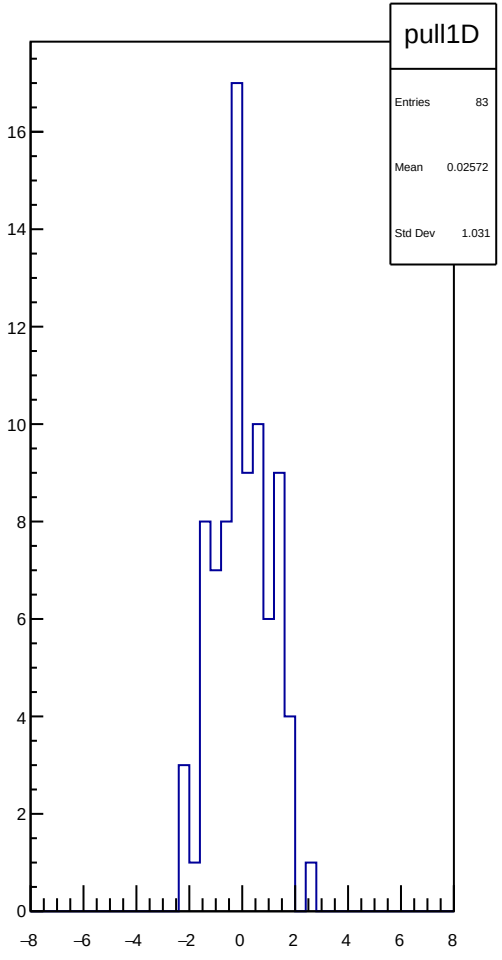

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.213e+04 / 82
p0 42.31 ± 0.03346
52
50
48
46
44
42
40
38
36

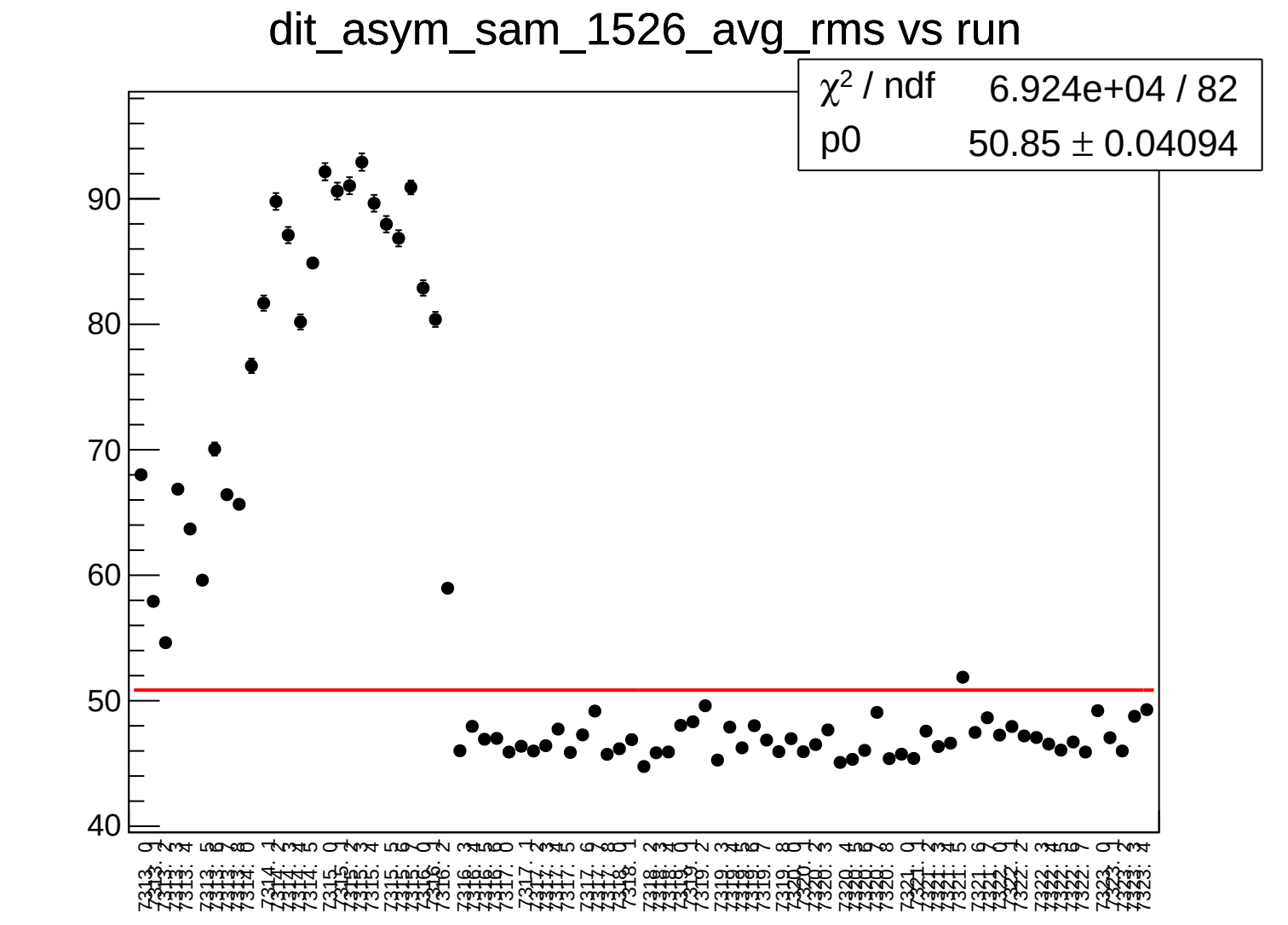

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 60.54 / 82
p0 −60.37 ± 239.5
pull
Entries 83
Mean 13.26
Std Dev 36.93

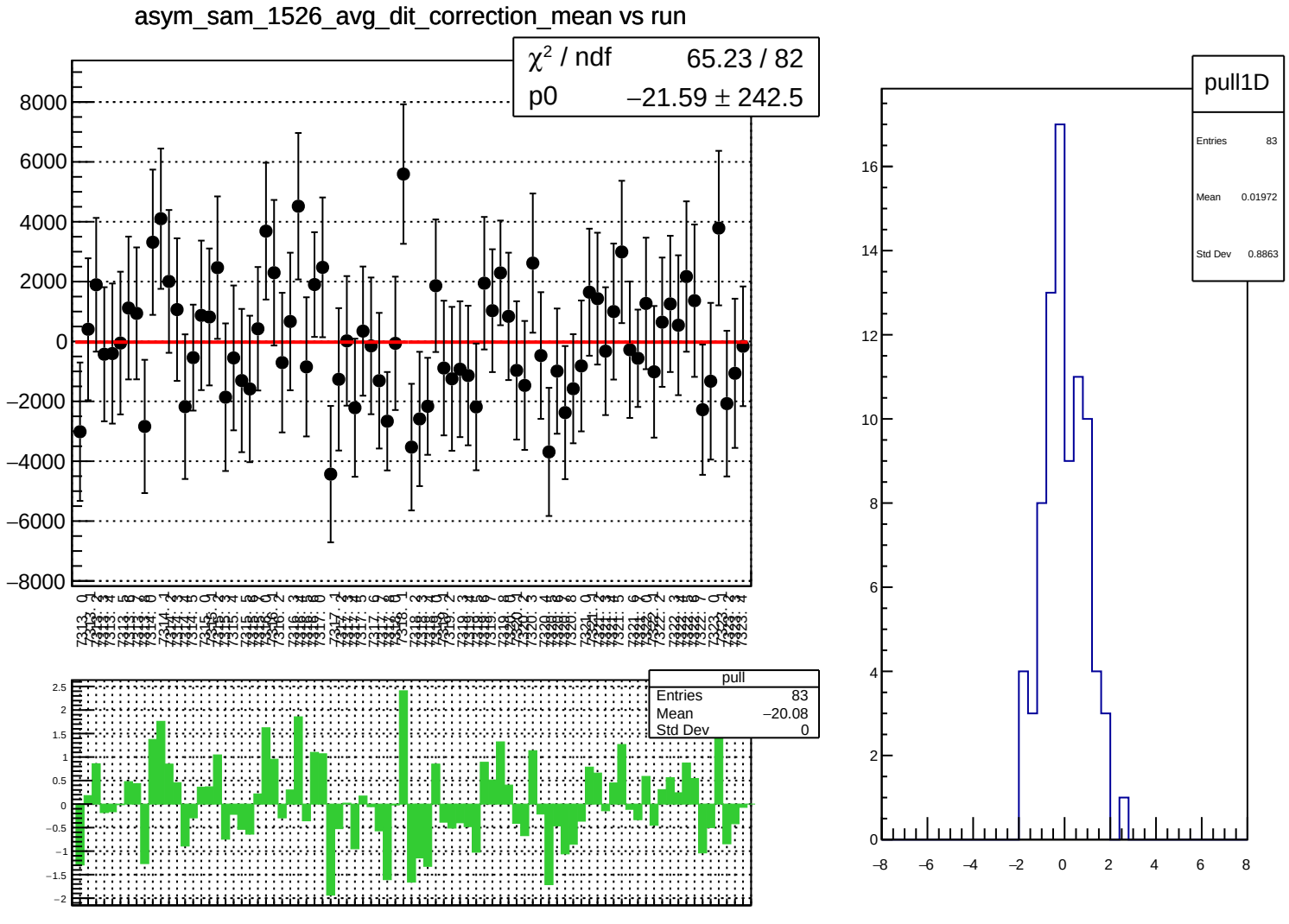

pull1D
Entries 83
Mean 0.0235
Std Dev 0.8537

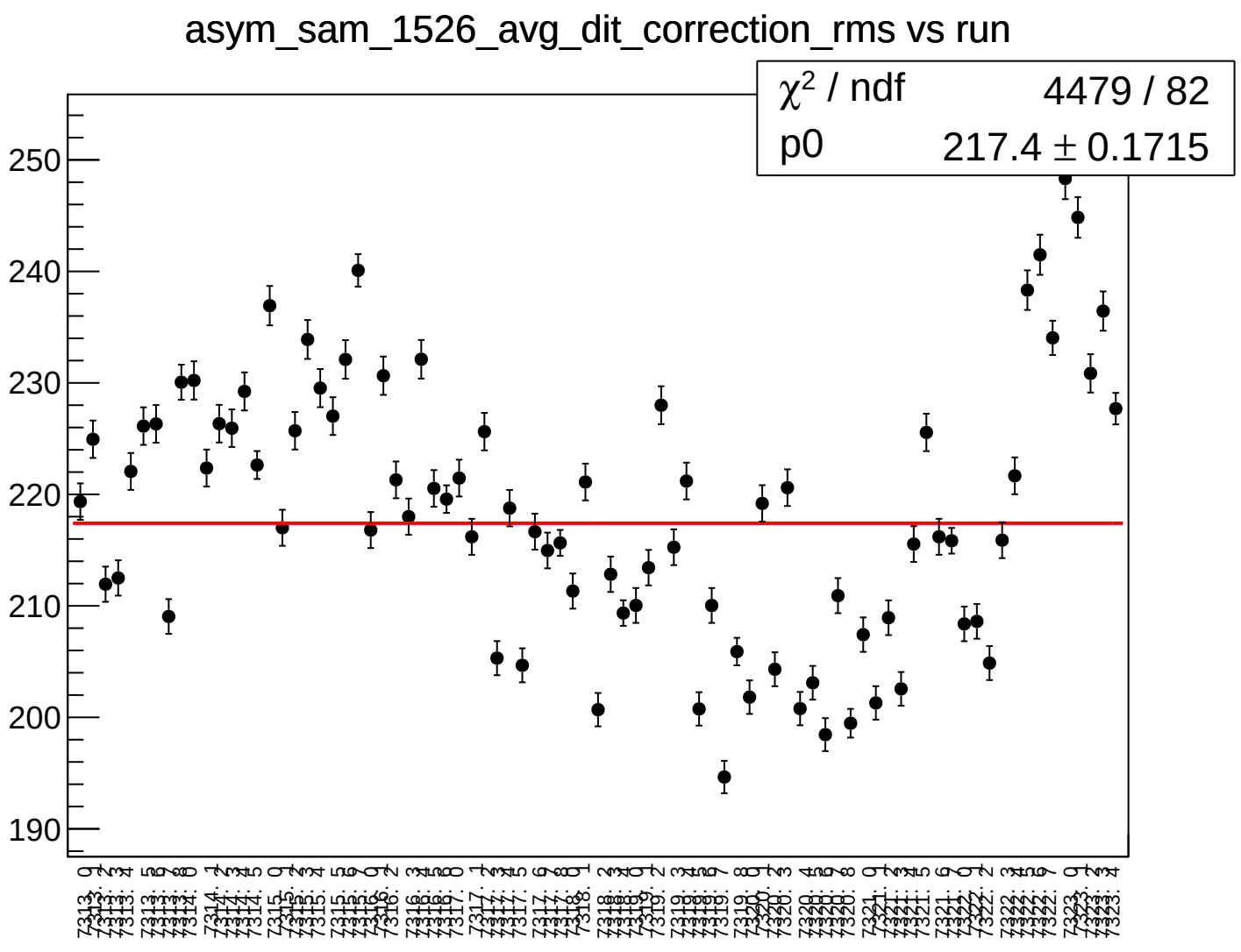

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 9340 / 82
p0 214.4 ± 0.1694
260
250
240
230
220
210
200
190
180

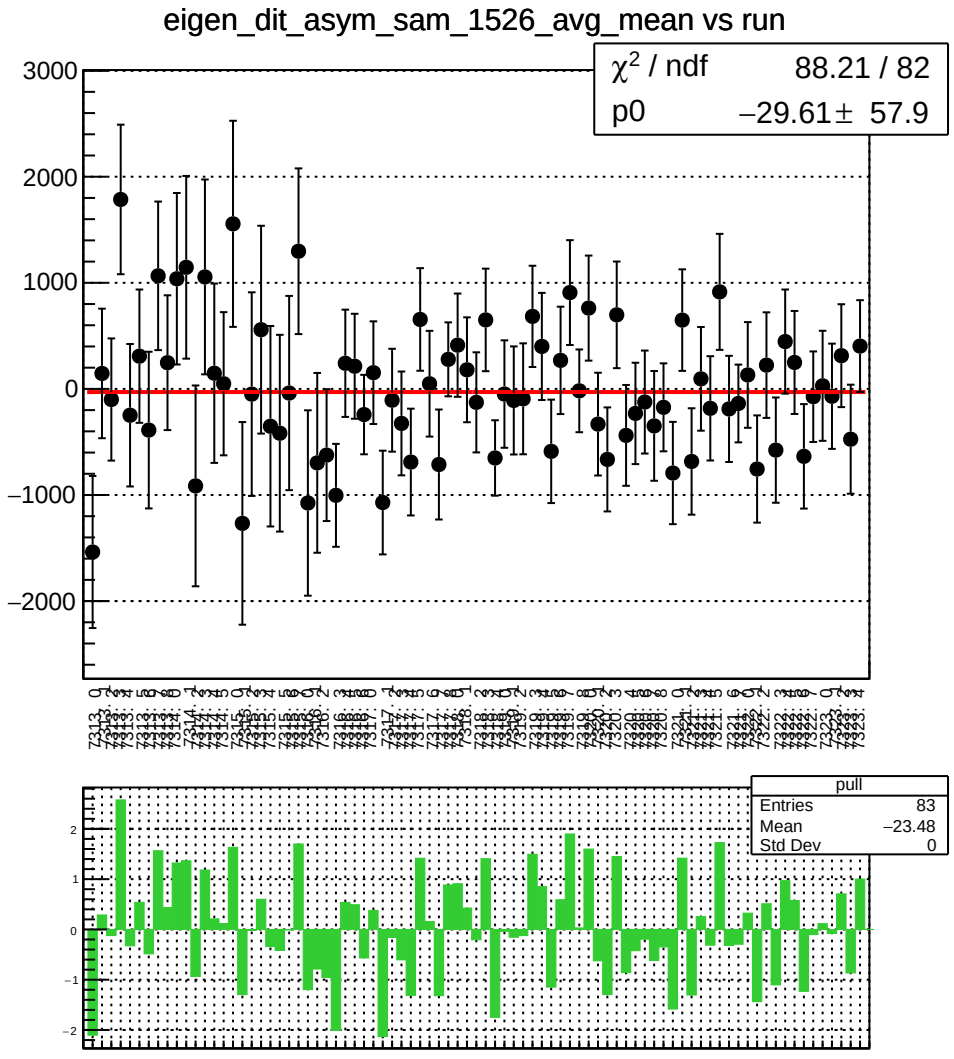

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 88.21 / 82
p0 −29.61± 57.9
3000
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −23.48
Std Dev 0
2
1
0
−1
−2

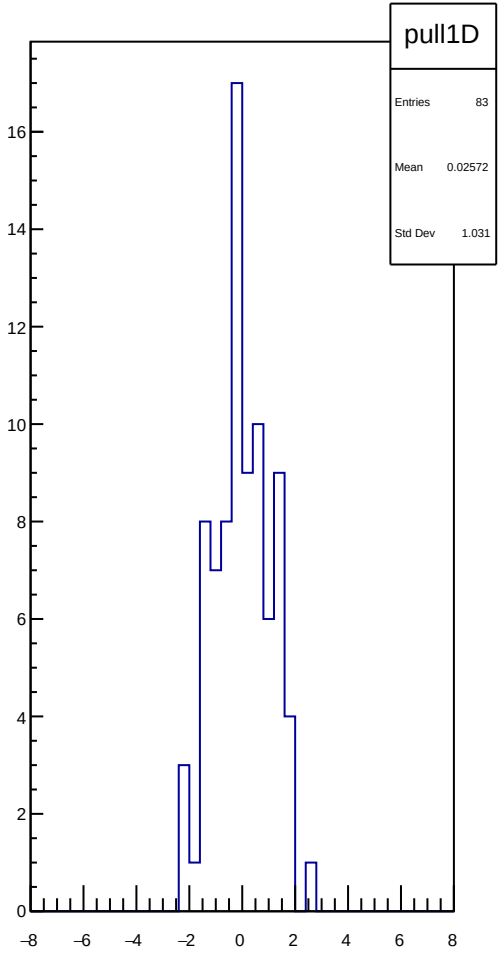

pull1D
Entries 83
Mean 0.02572
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

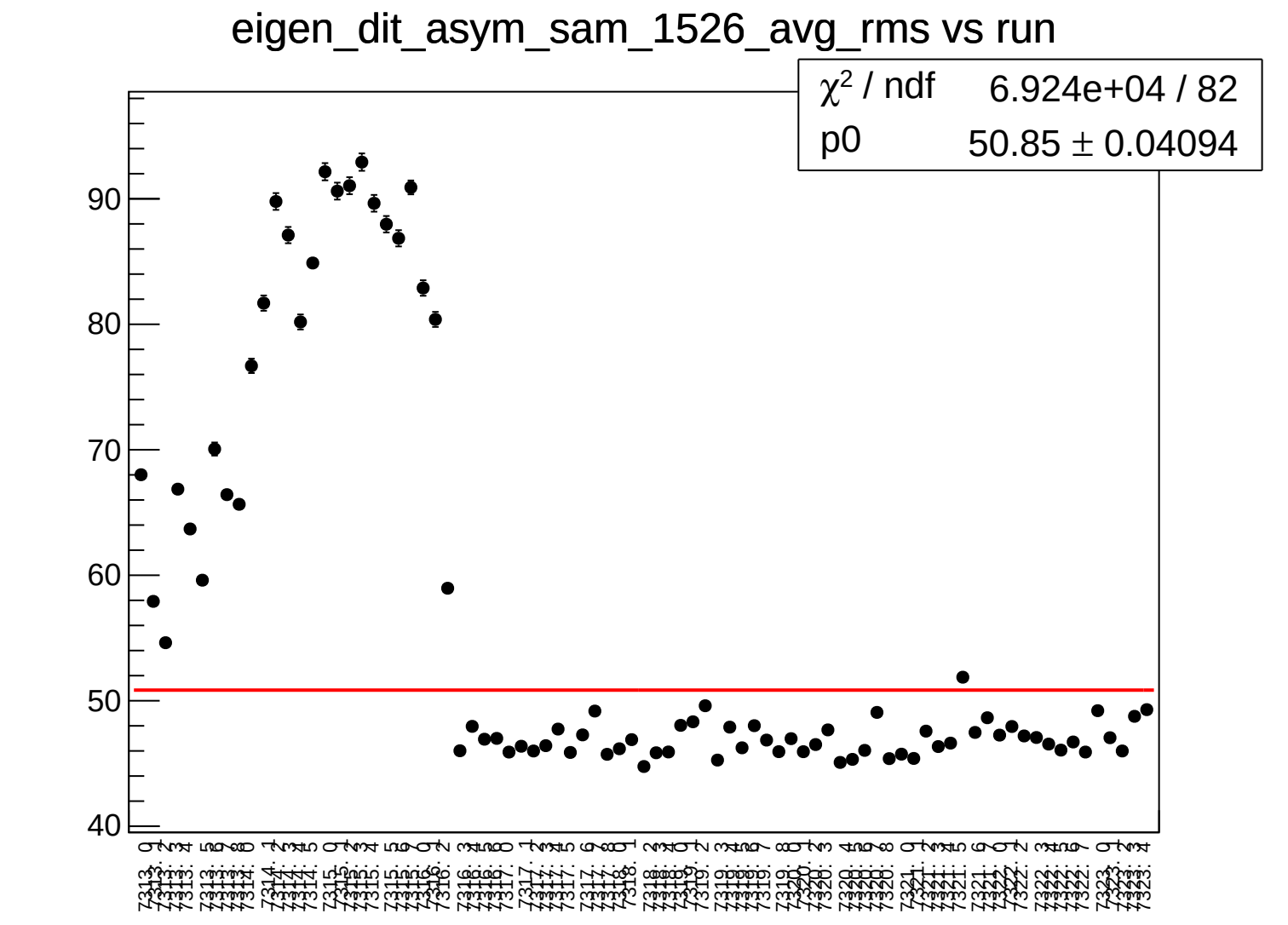

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6.924e+04 / 82
p0 50.85 ± 0.04094
90
80
70
60
50
40

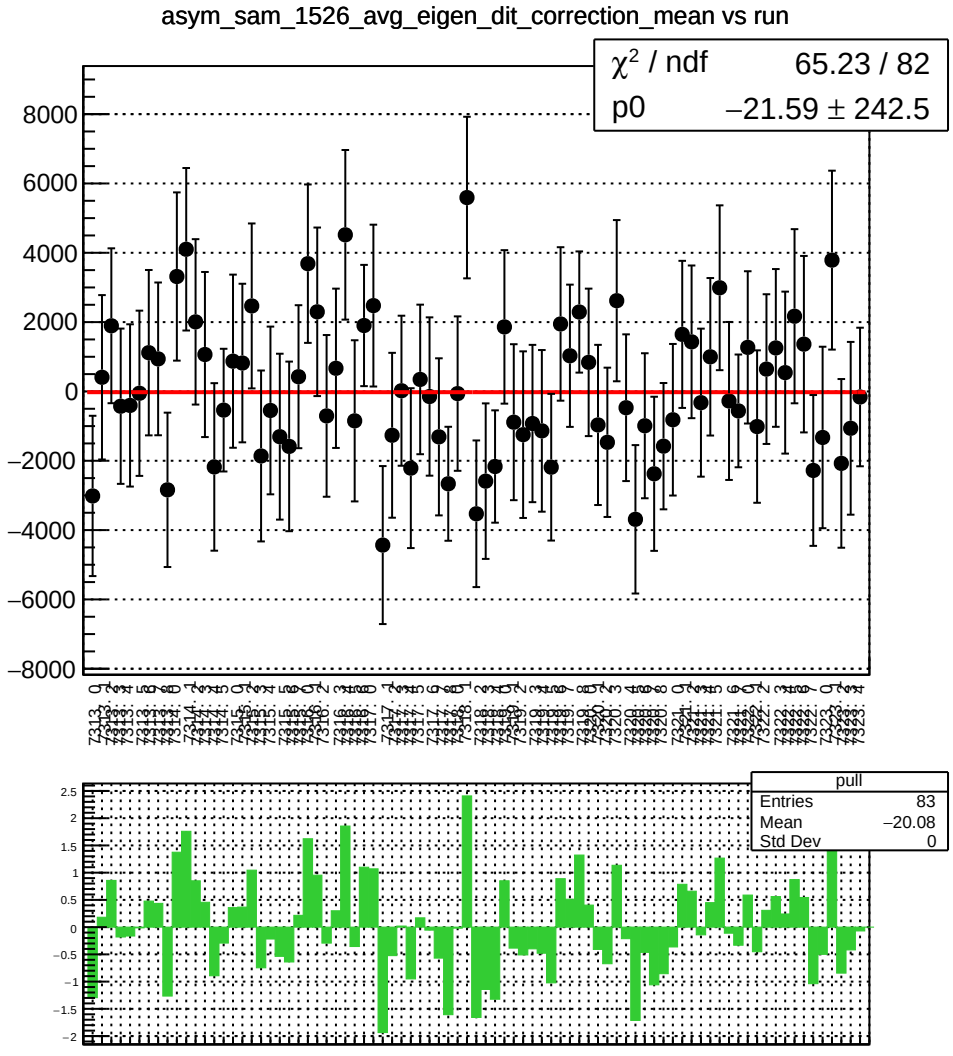

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 65.23 / 82
p0 −21.59 ± 242.5
pull
Entries 83
Mean −20.08
Std Dev 0
pull1D
Entries 83
Mean 0.01972
Std Dev 0.8863

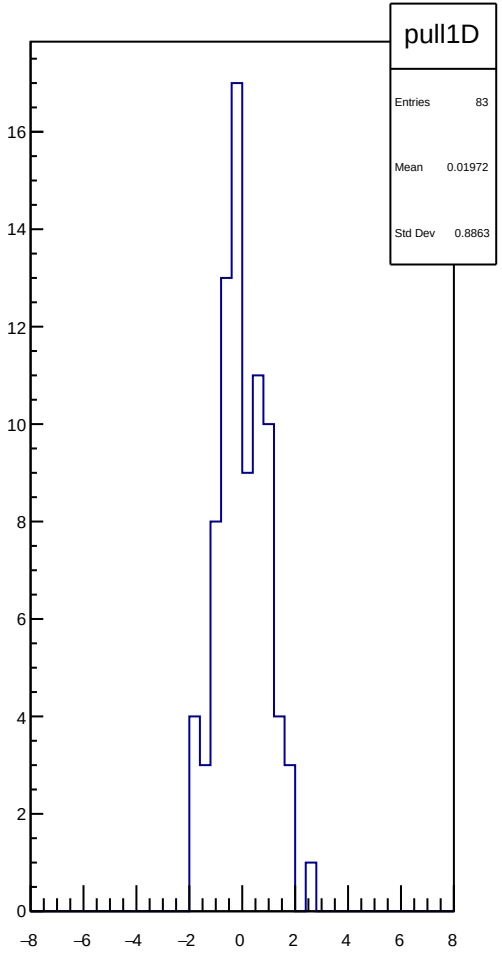

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 4479 / 82
p0 217.4 ± 0.1715
250
240
230
220
210
200
190

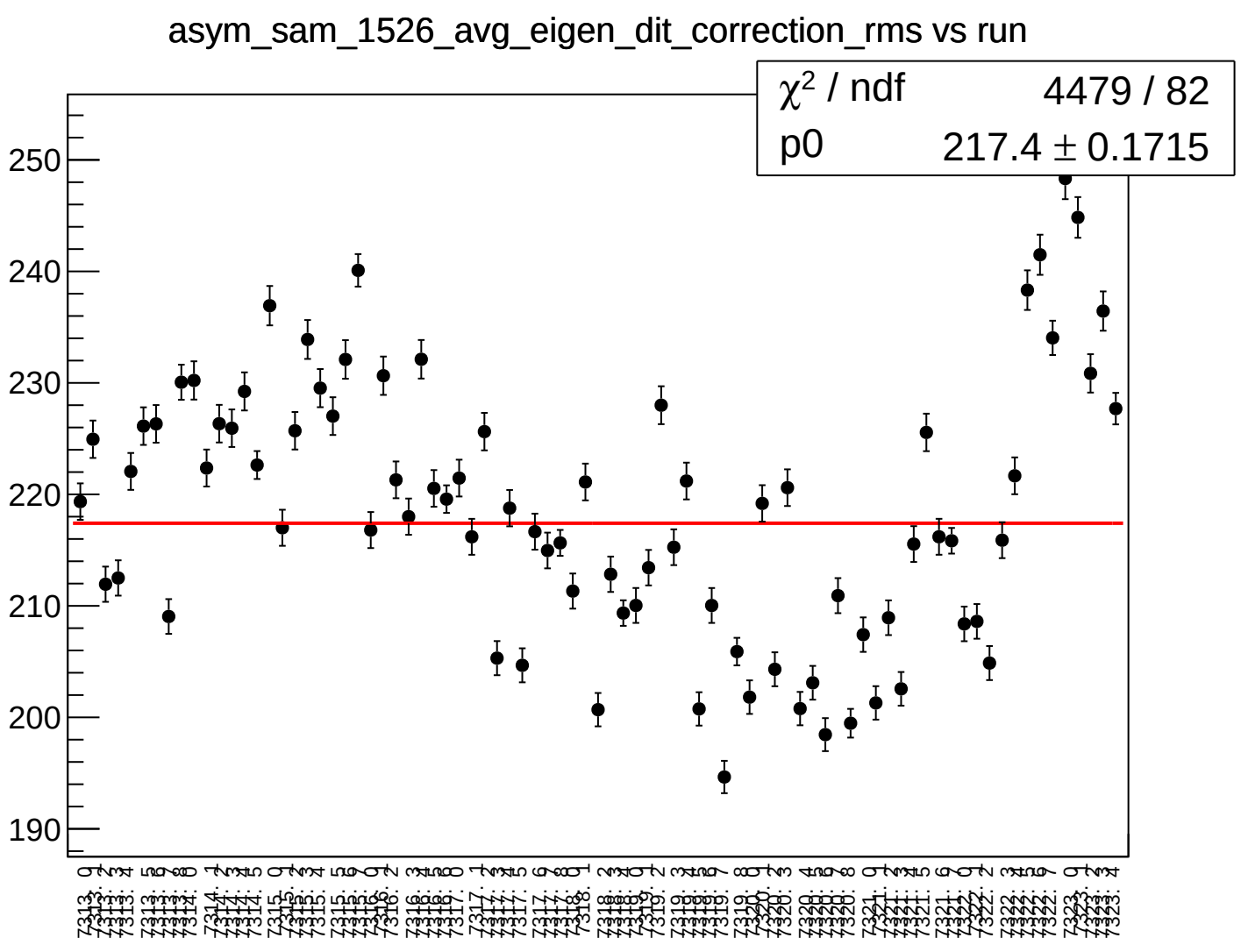

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 88.21 / 82
p0 −29.61± 57.9
pull
Entries 83
Mean −23.48
Std Dev 0

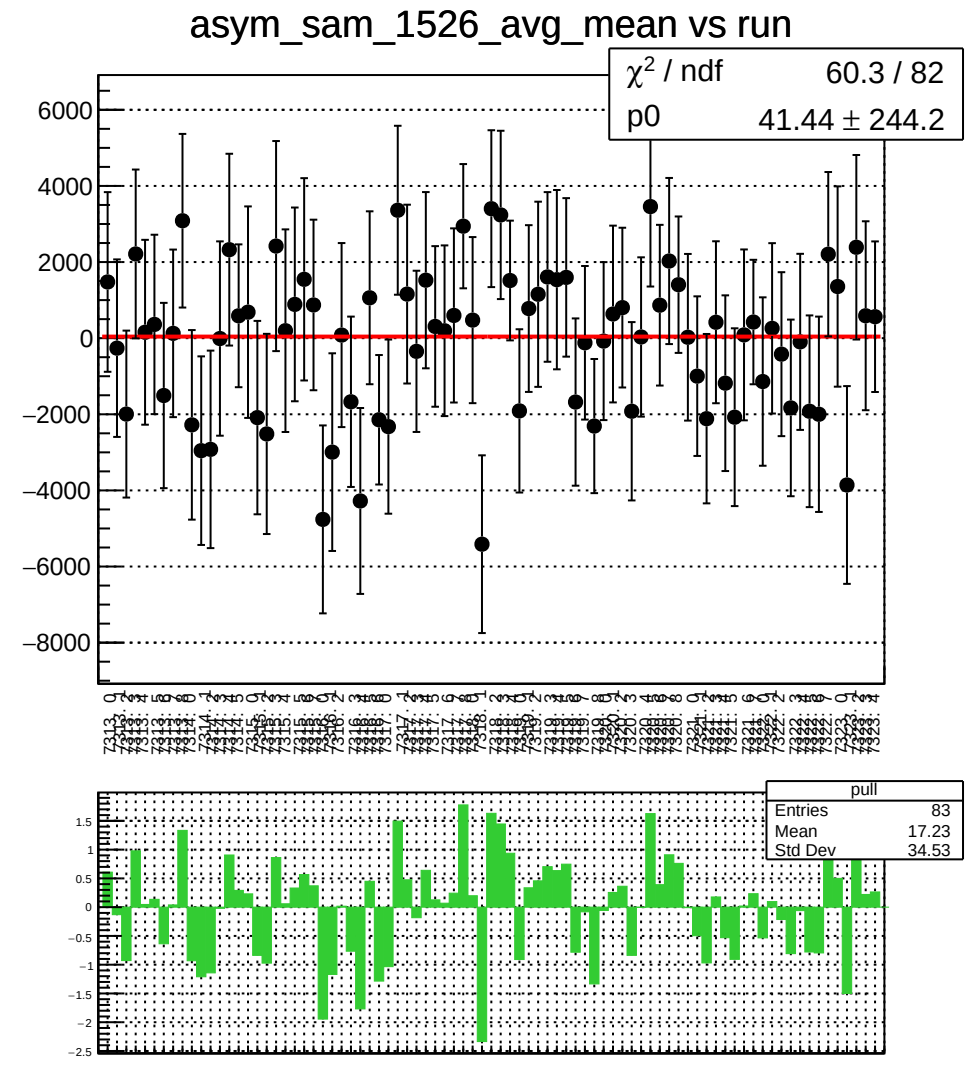

pull1D
Entries 83
Mean 0.02572
Std Dev 1.031

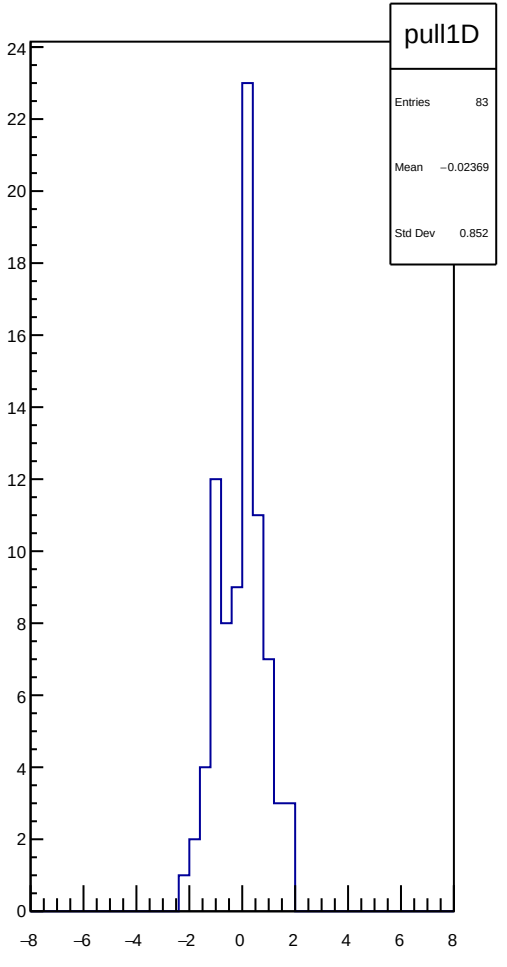

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6.924e+04 / 82
p0 50.85 ± 0.04094
90
80
70
60
50
40

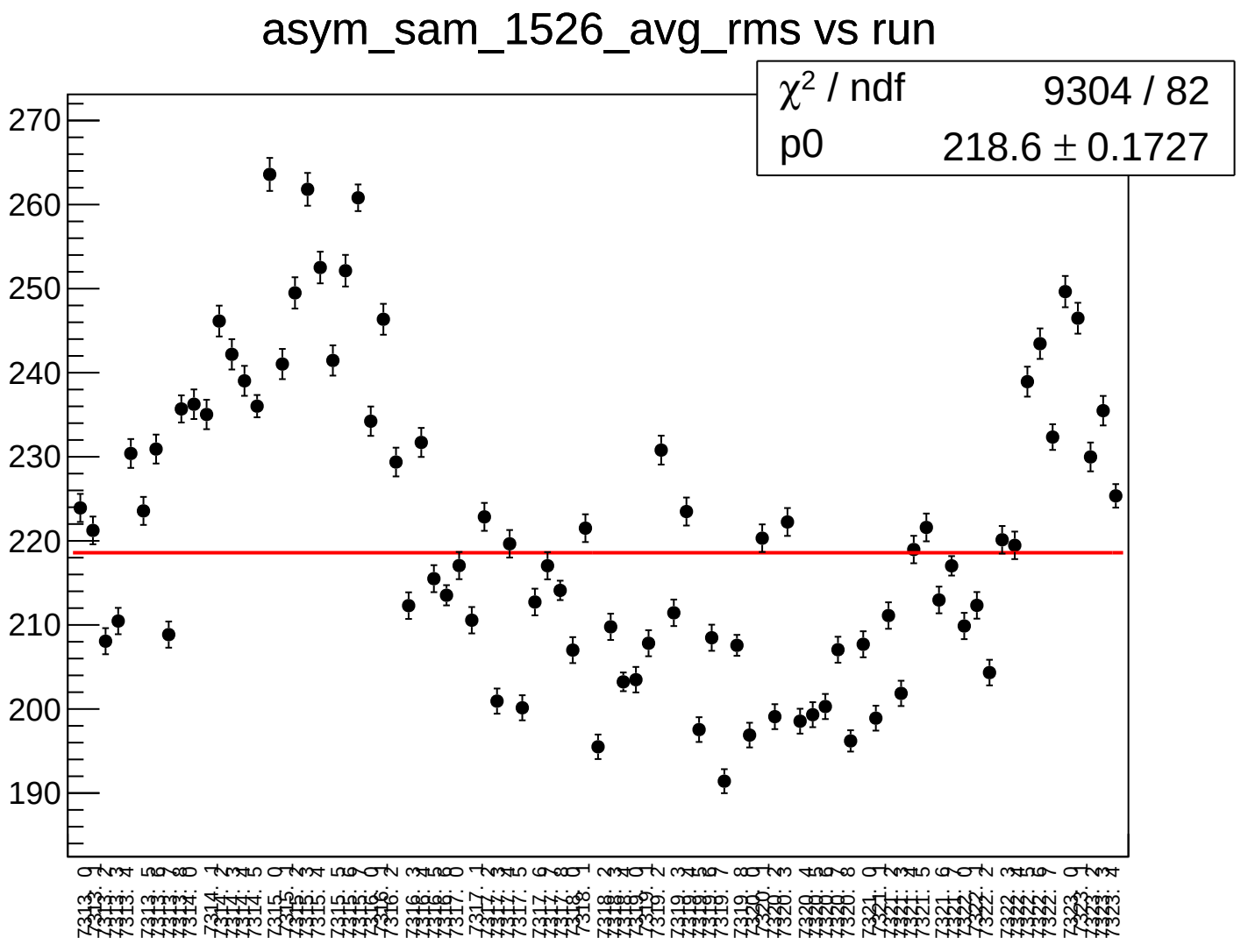

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.23 / 82
p0 −21.59 ± 242.5
pull
Entries 83
Mean −20.08
Std Dev 0

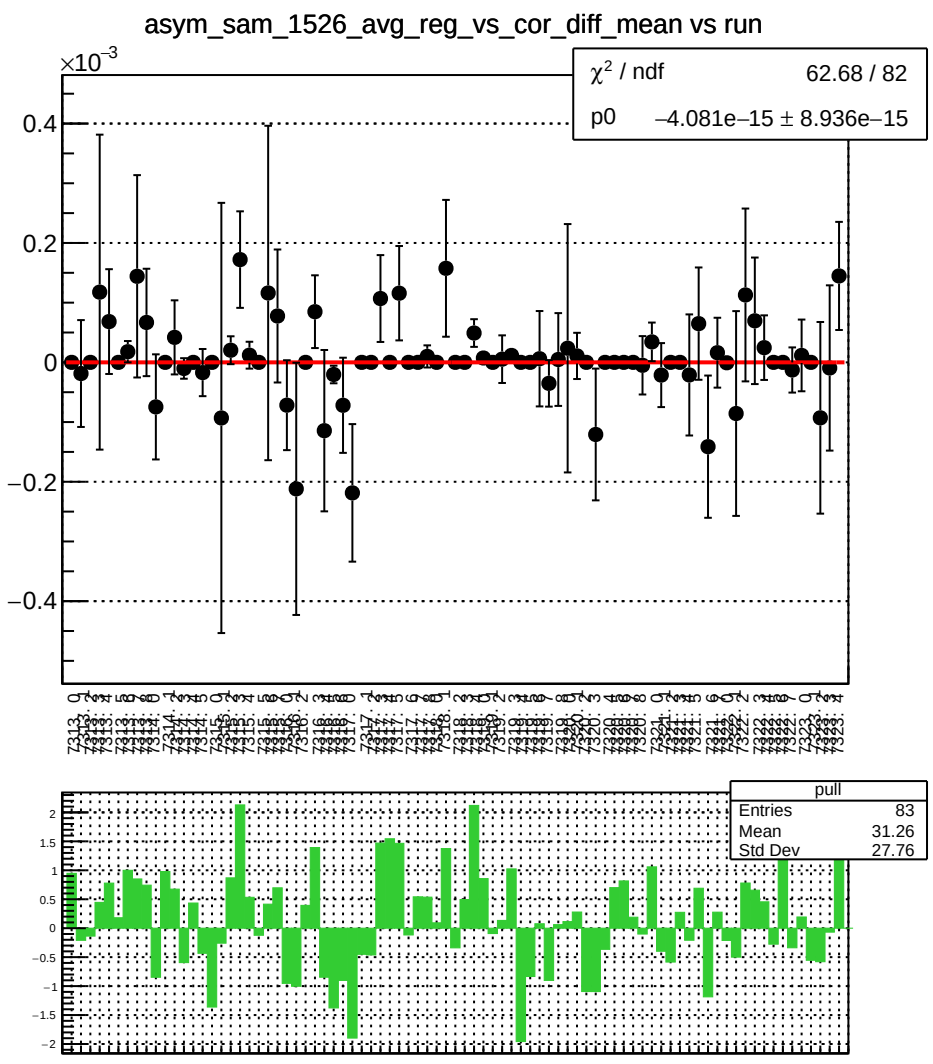

pull1D
Entries 83
Mean 0.01972
Std Dev 0.8863

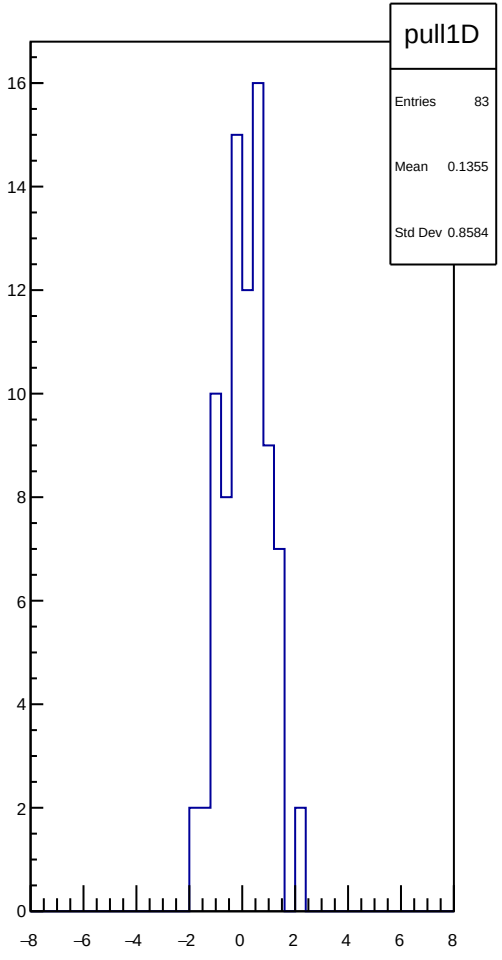

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 4479 / 82
p0 217.4 ± 0.1715
250
240
230
220
210
200
190

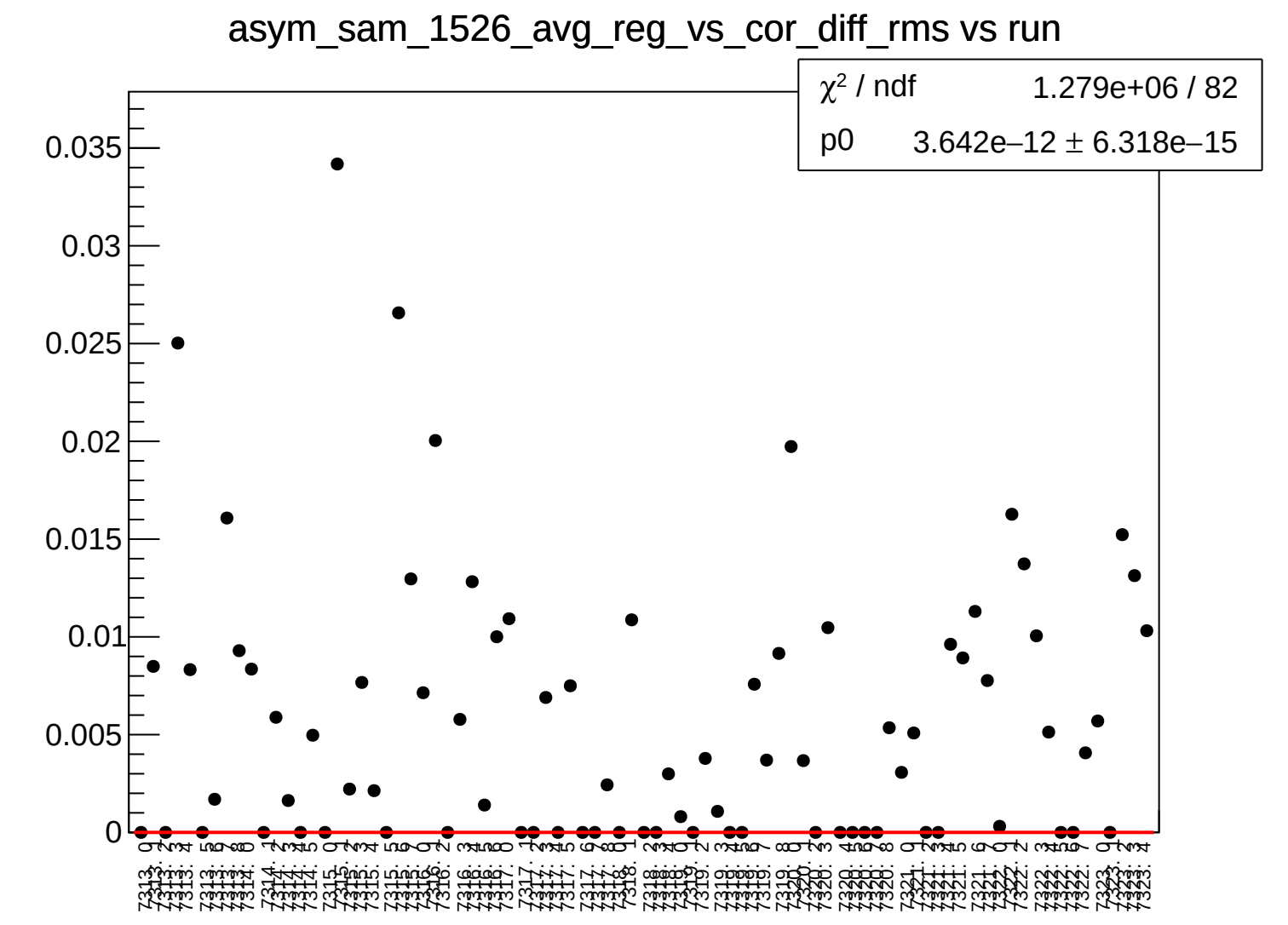

asym_sam_1526_avg_mean vs run
χ² / ndf 60.3 / 82
p0 41.44 ± 244.2
pull
Entries 83
Mean 17.23
Std Dev 34.53

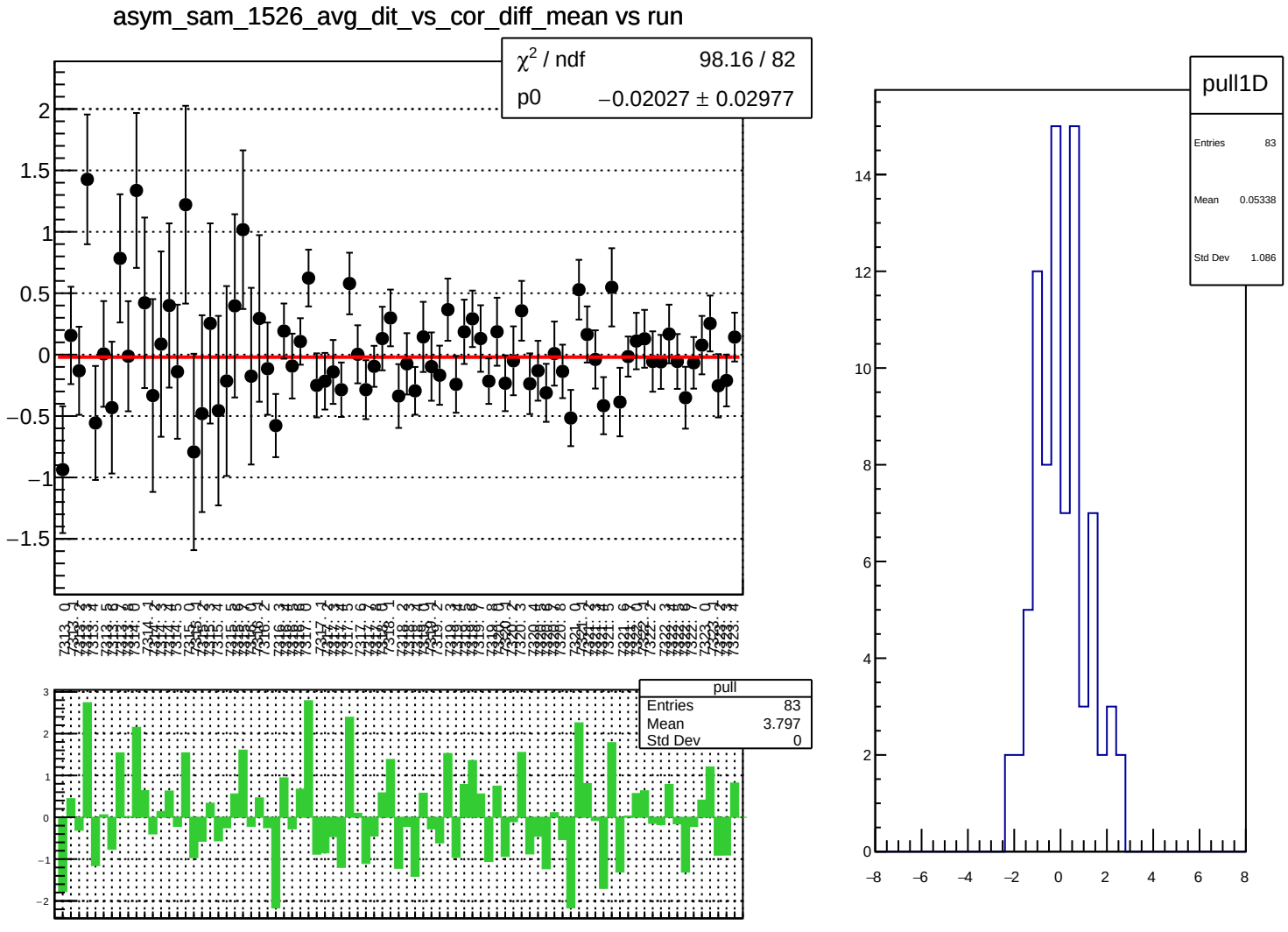

pull1D
Entries 83
Mean −0.02369
Std Dev 0.852

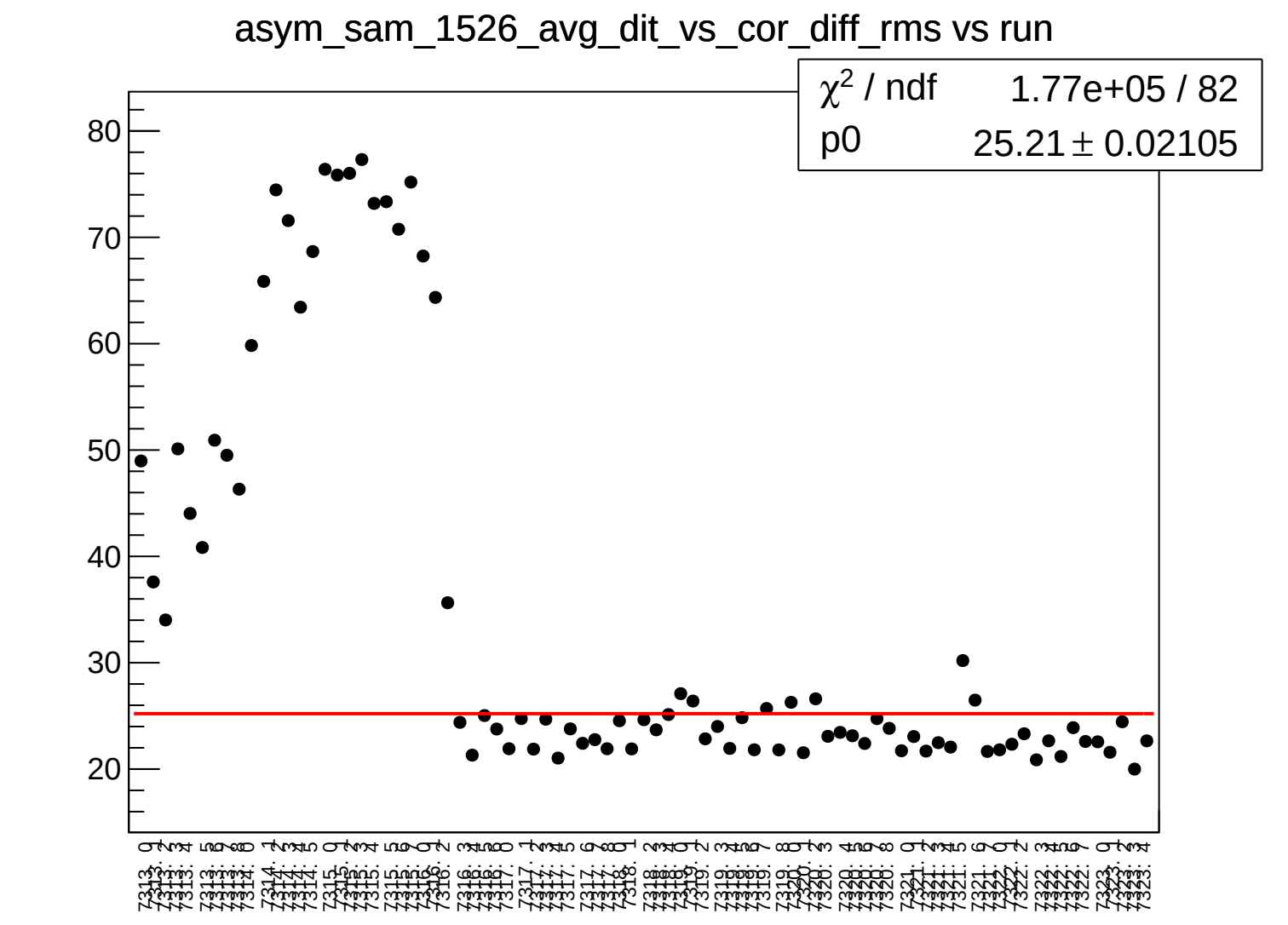

asym_sam_1526_avg_rms vs run
χ² / ndf 9304 / 82
p0 218.6 ± 0.1727
270
260
250
240
230
220
210
200
190

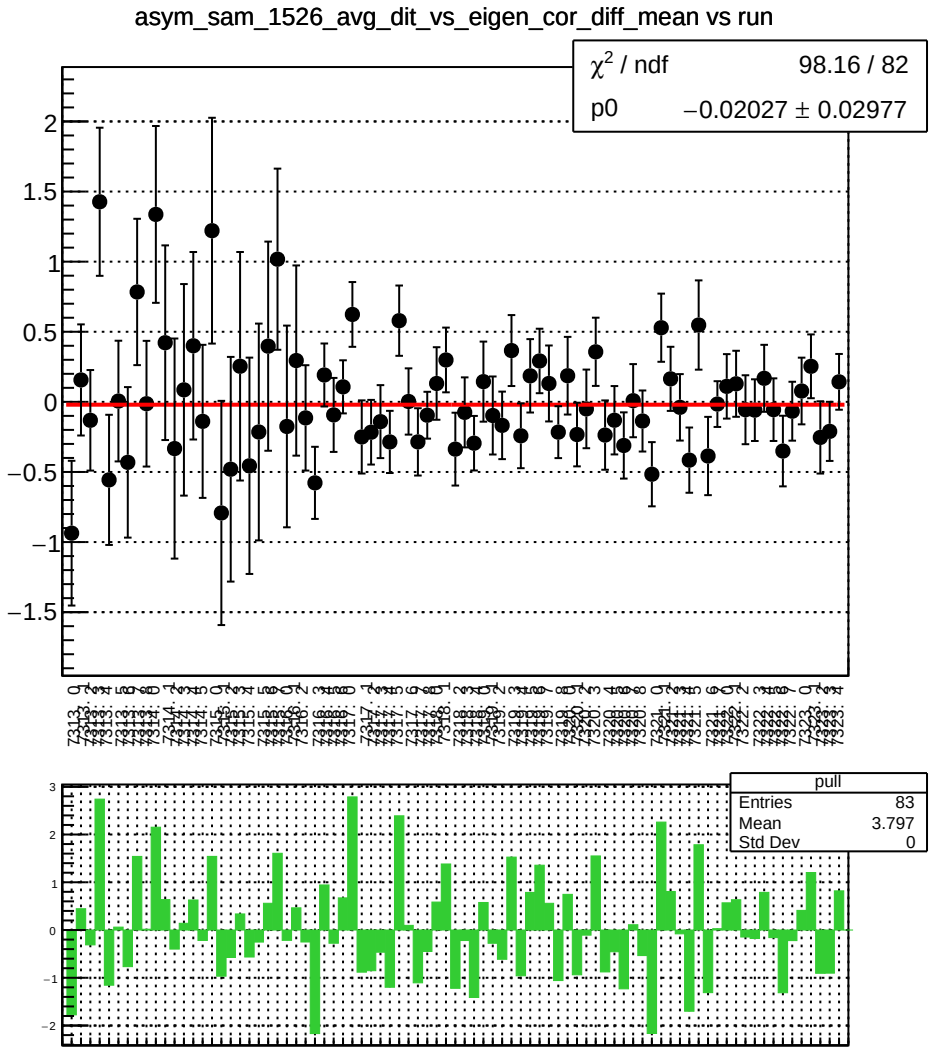

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 62.68 / 82
p0 −4.081e−15 ± 8.936e−15
pull
Entries 83
Mean 31.26
Std Dev 27.76

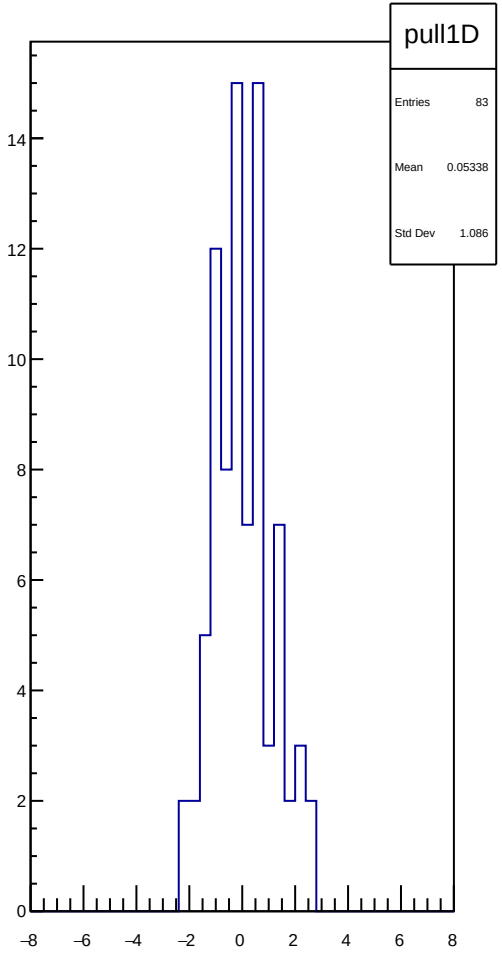

pull1D
Entries 83
Mean 0.1355
Std Dev 0.8584

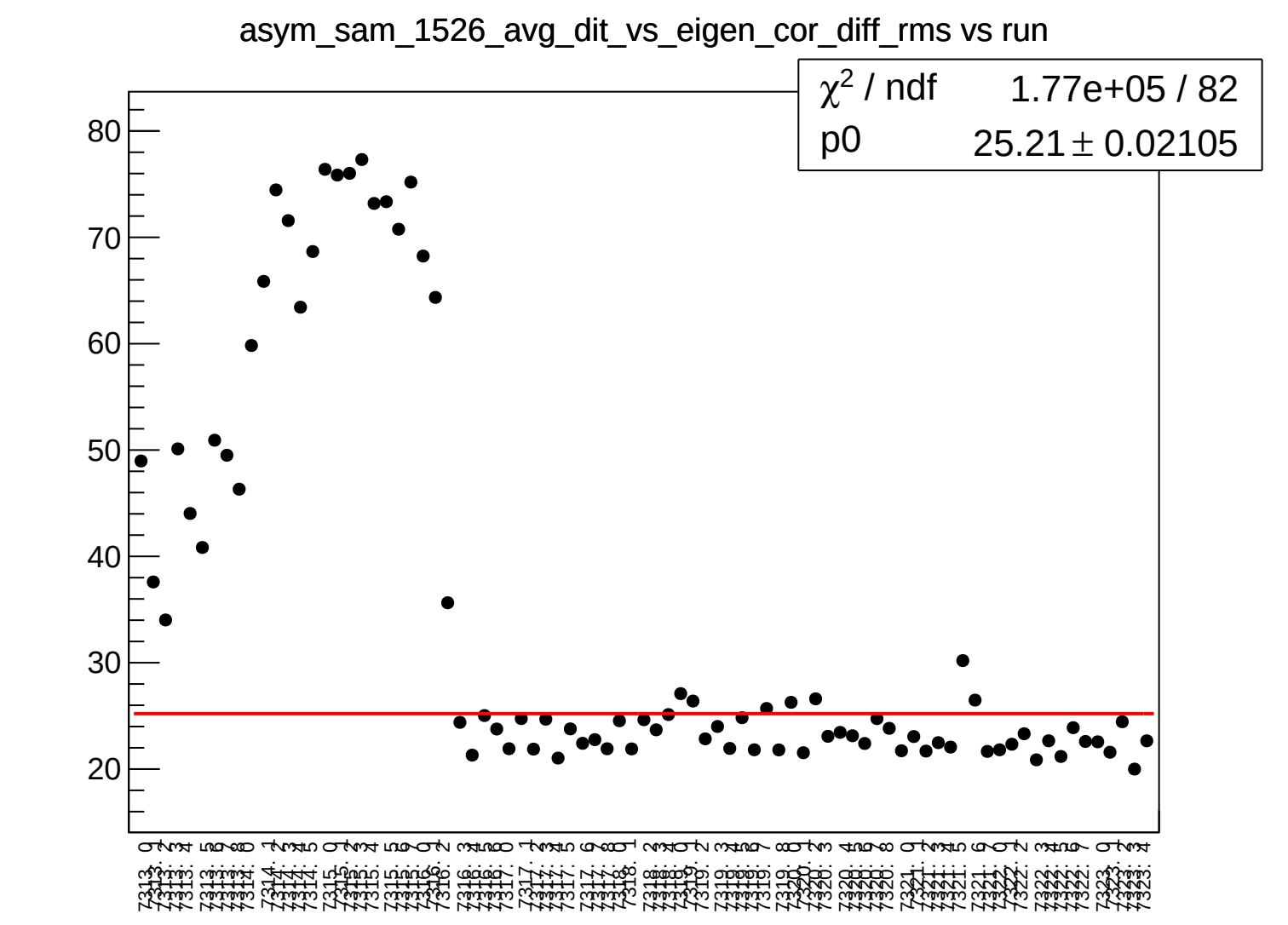

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.279e+06 / 82
p0 3.642e−12 ± 6.318e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

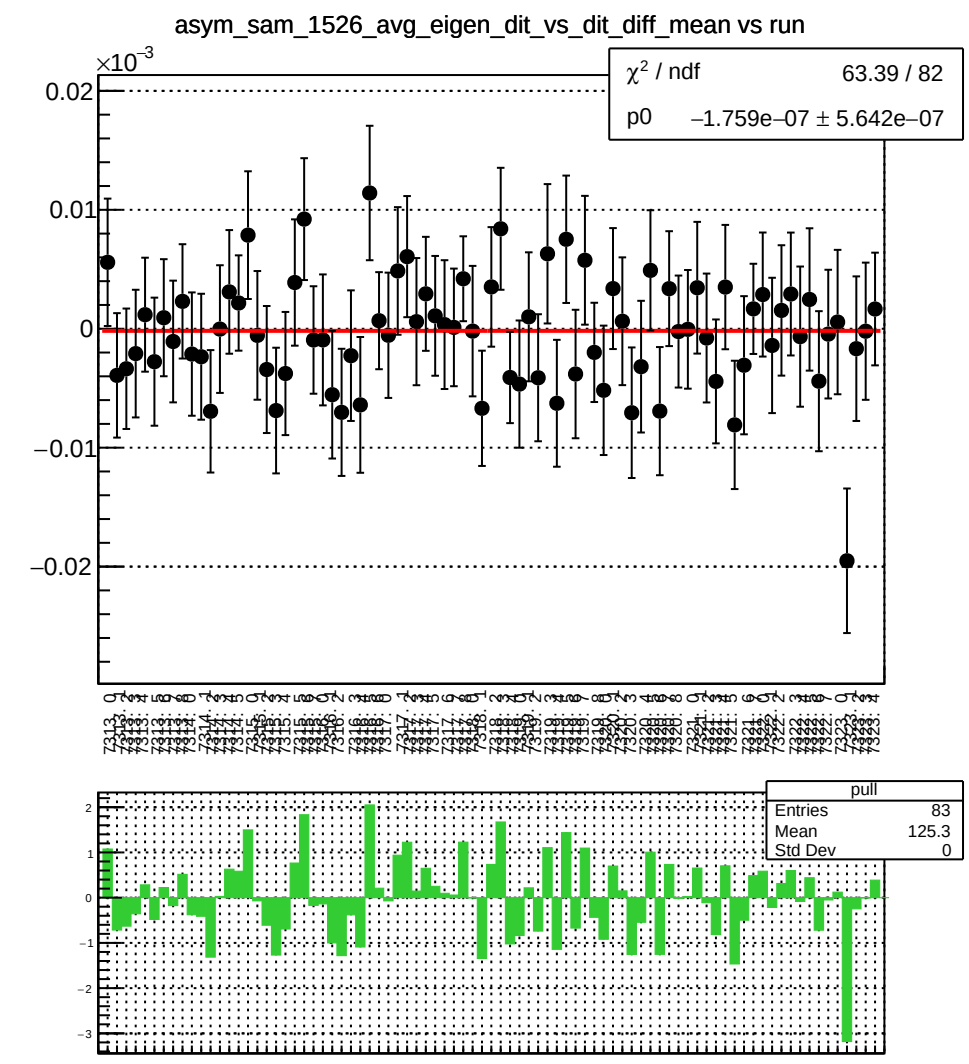

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.16 / 82
p0 −0.02027 ± 0.02977
pull
Entries 83
Mean 3.797
Std Dev 0
pull1D
Entries 83
Mean 0.05338
Std Dev 1.086

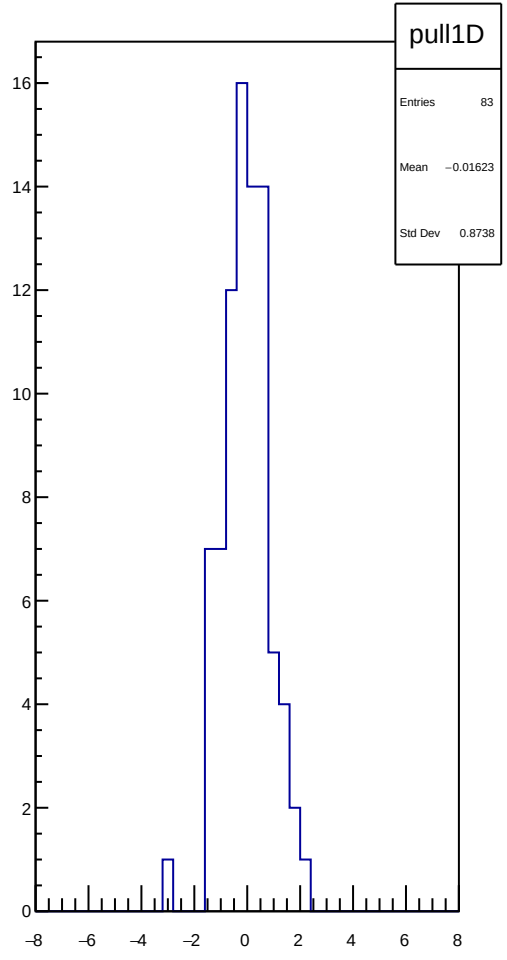

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 82
p0 25.21 ± 0.02105
80
70
60
50
40
30
20

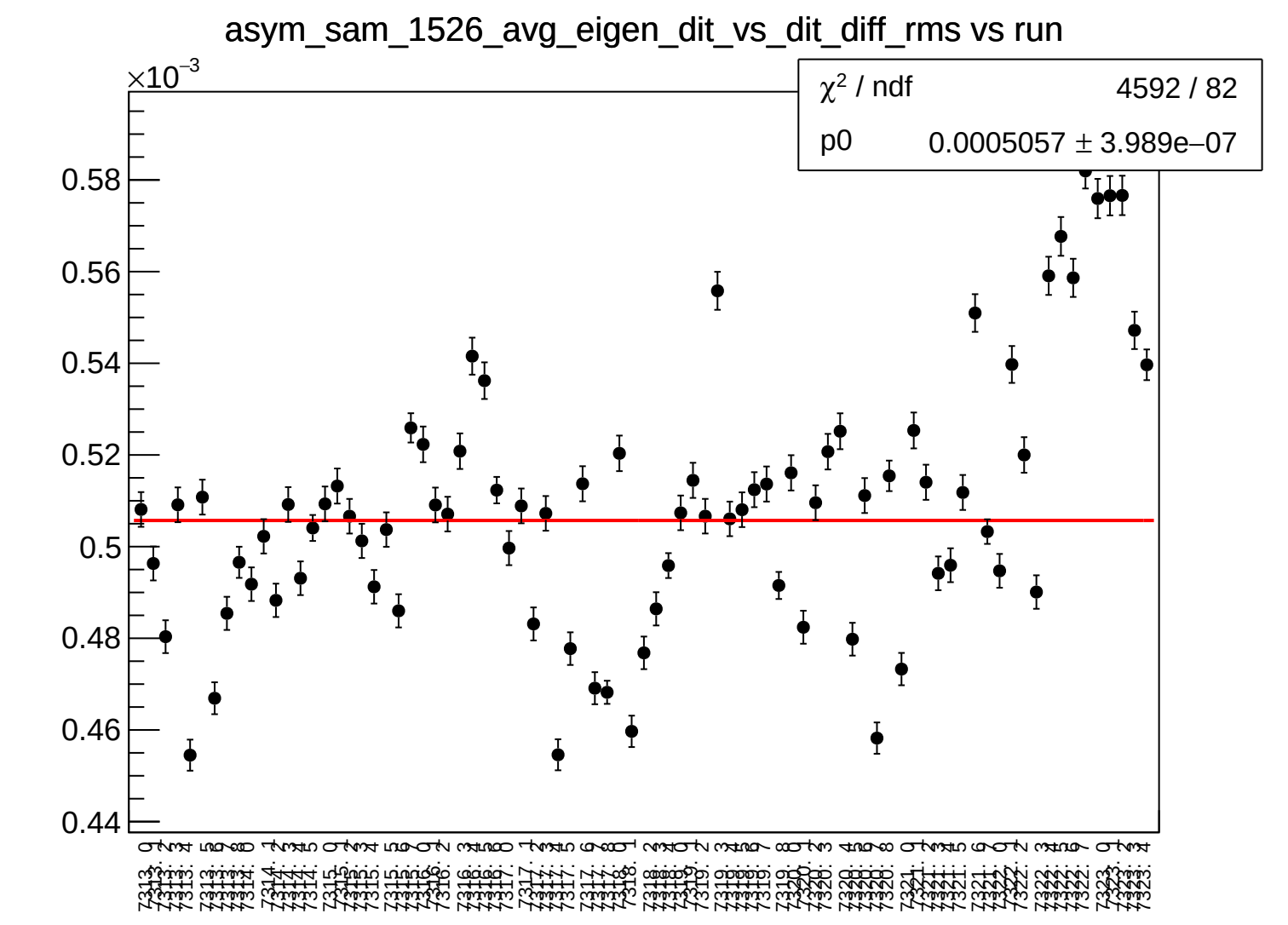

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.16 / 82
p0 −0.02027 ± 0.02977
pull
Entries 83
Mean 3.797
Std Dev 0

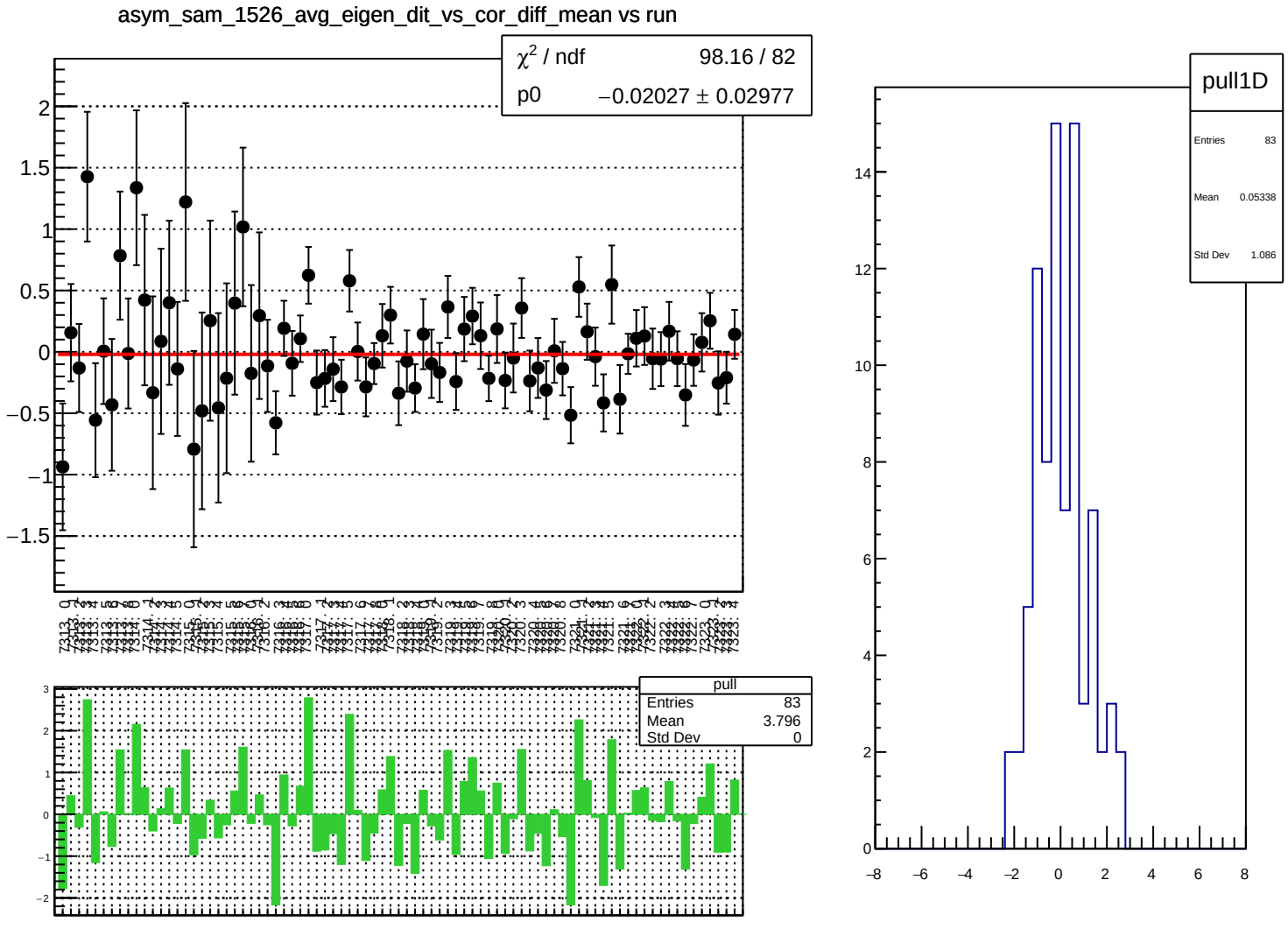

pull1D
Entries 83
Mean 0.05338
Std Dev 1.086

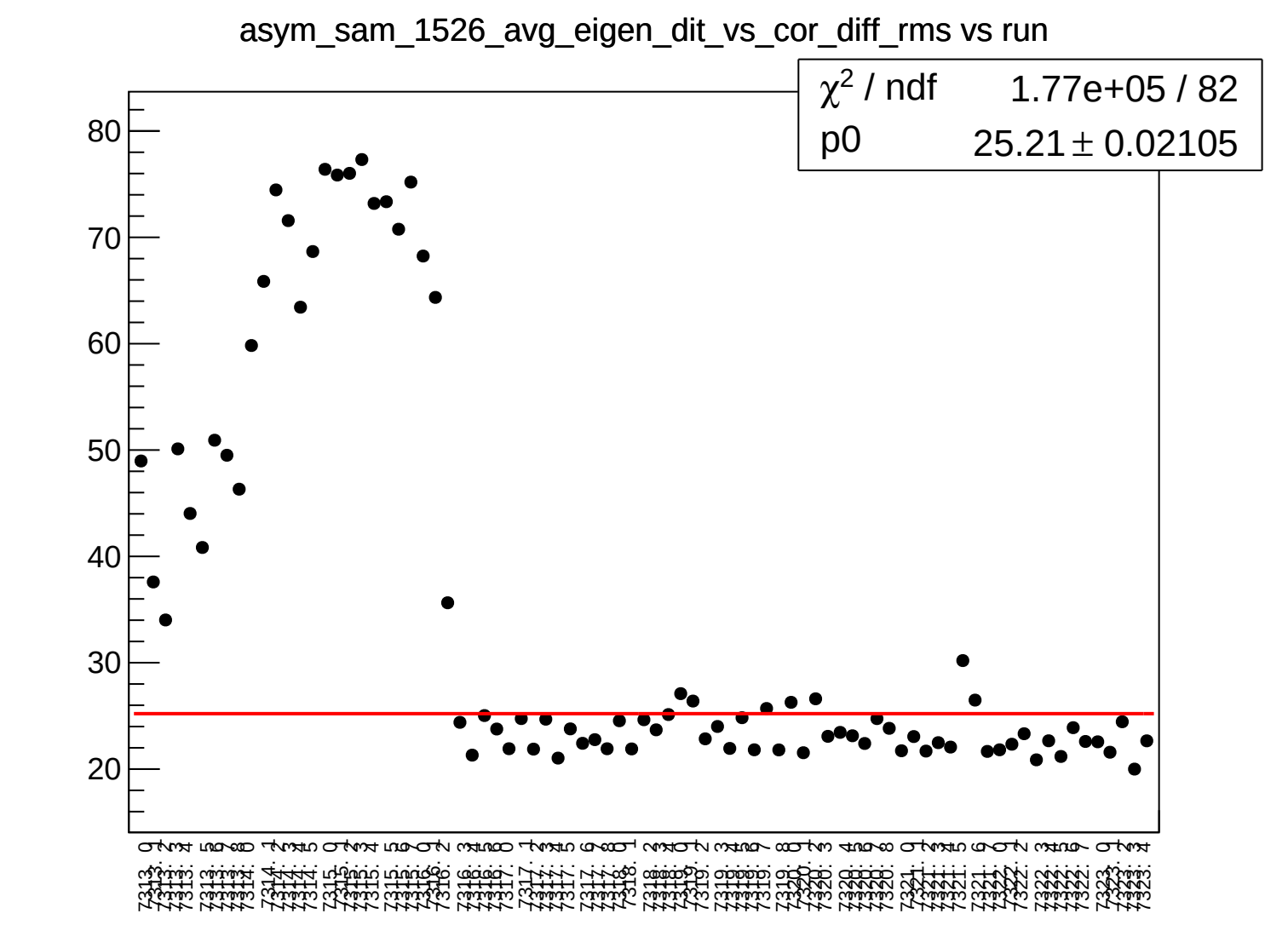

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 82
p0 25.21 ± 0.02105
80
70
60
50
40
30
20

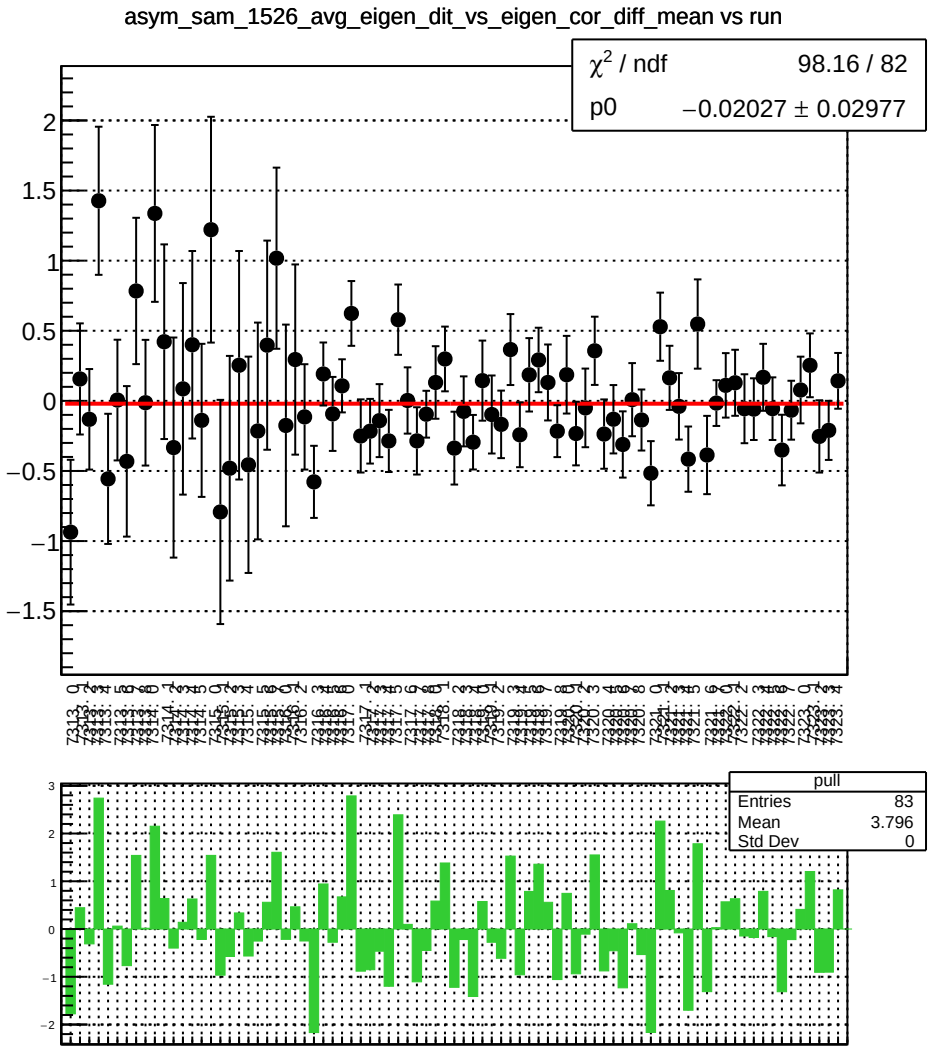

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.39 / 82
p0 −1.759e−07 ± 5.642e−07
pull
Entries 83
Mean 125.3
Std Dev 0

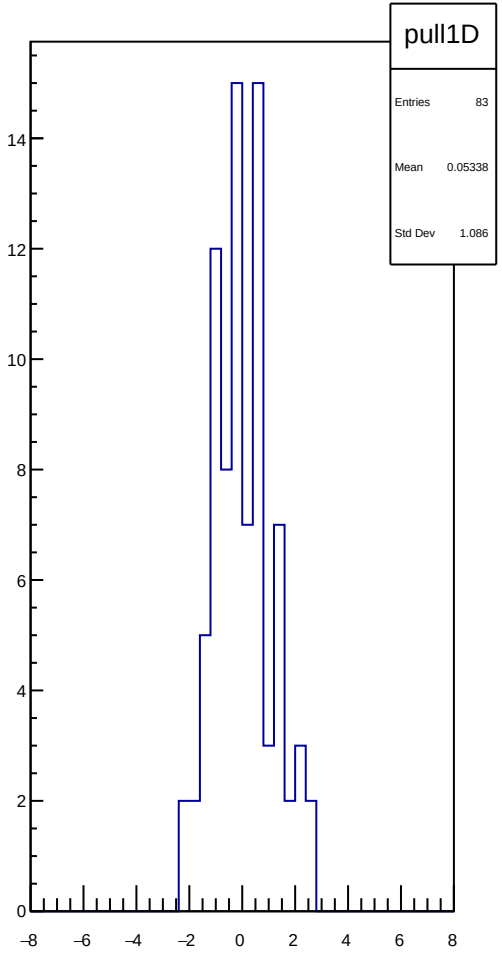

pull1D
Entries 83
Mean −0.01623
Std Dev 0.8738

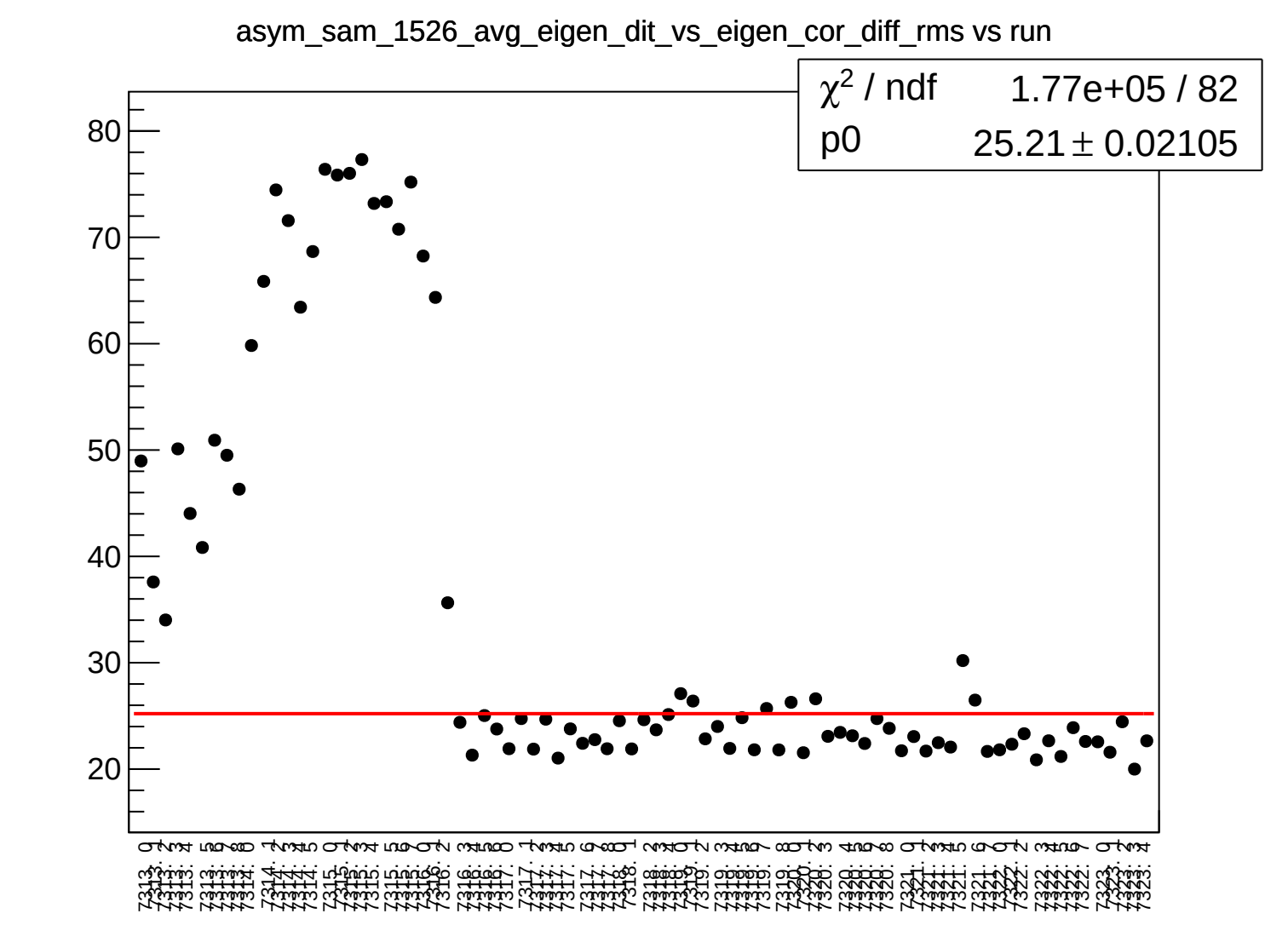

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4592 / 82
p0 0.0005057 ± 3.989e−07
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44

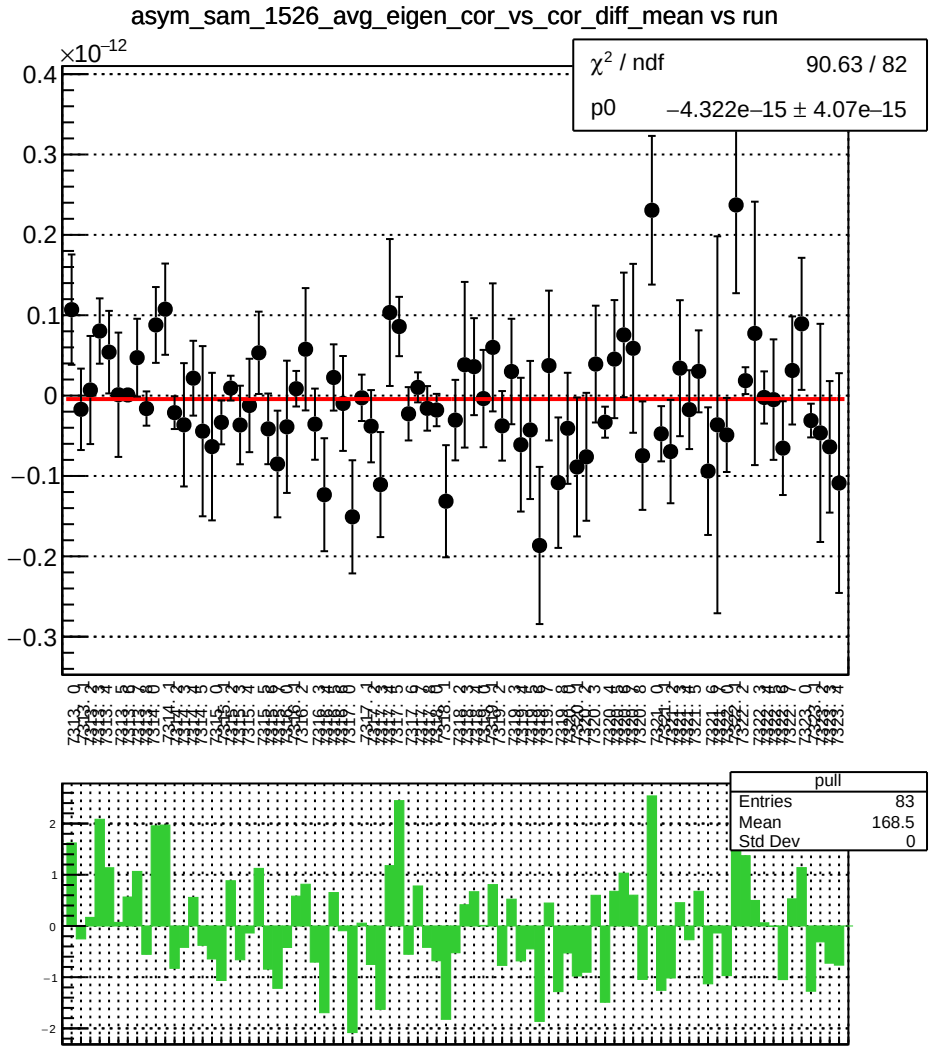

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.16 / 82
p0 −0.02027 ± 0.02977
pull
Entries 83
Mean 3.796
Std Dev 0
pull1D
Entries 83
Mean 0.05338
Std Dev 1.086

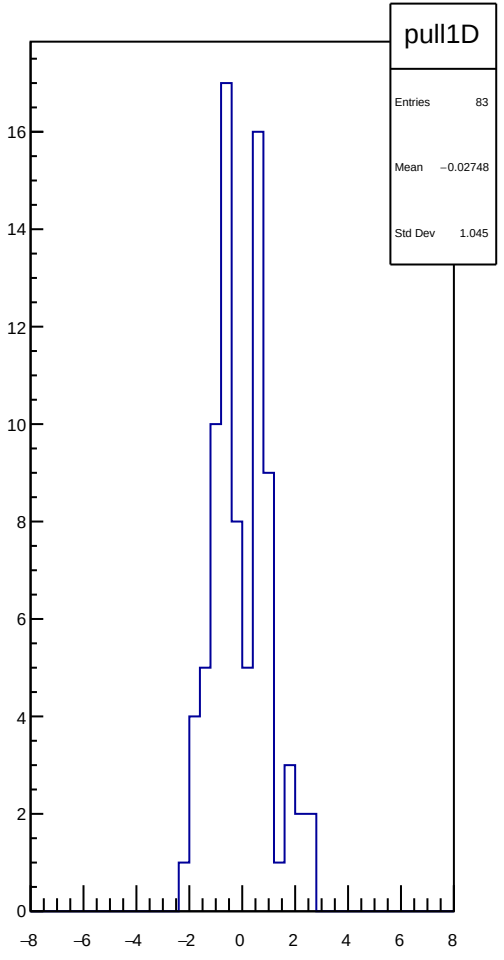

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 82
p0 25.21 ± 0.02105
80
70
60
50
40
30
20

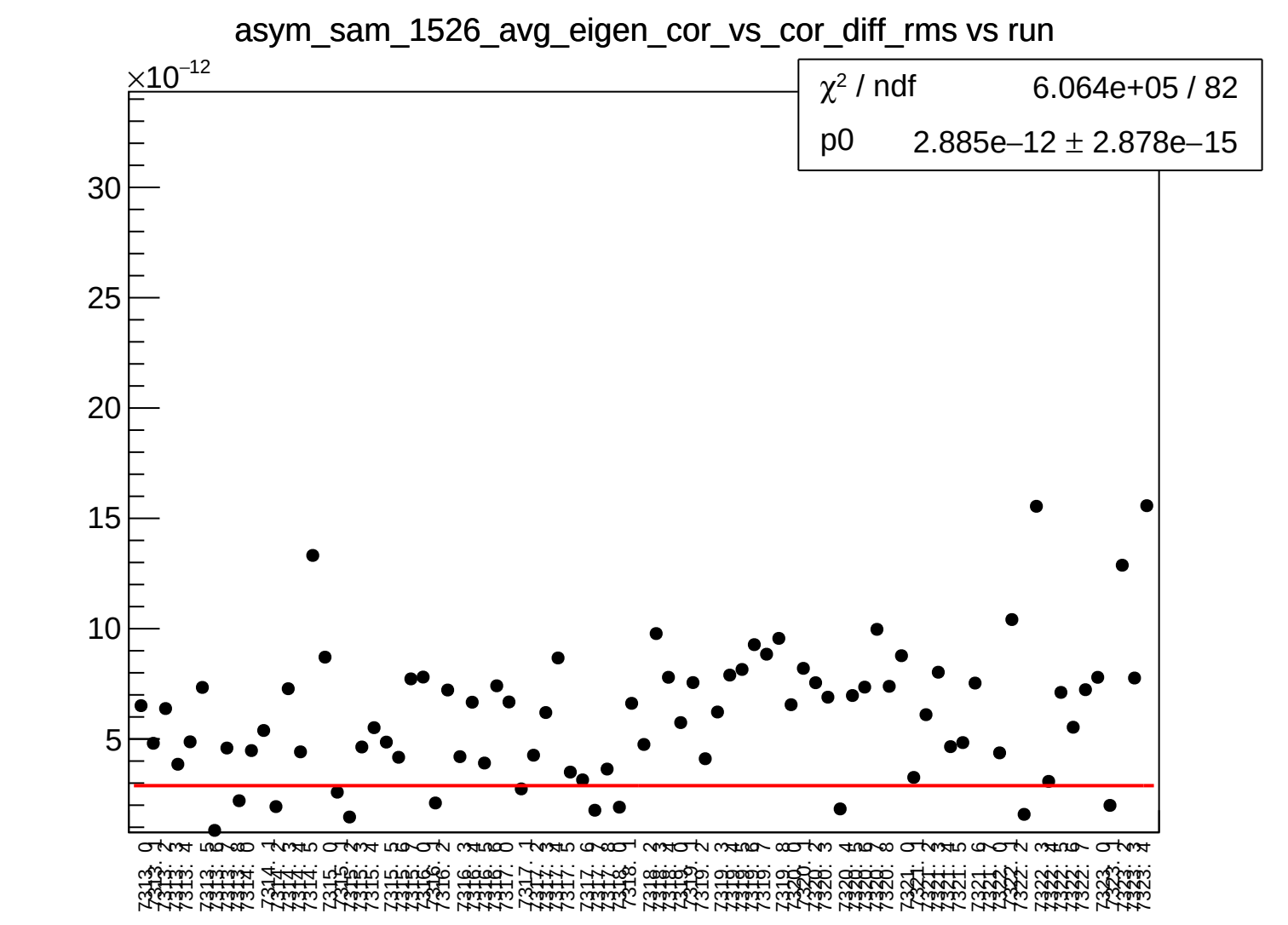

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.16 / 82
p0 −0.02027 ± 0.02977
pull
Entries 83
Mean 3.796
Std Dev 0

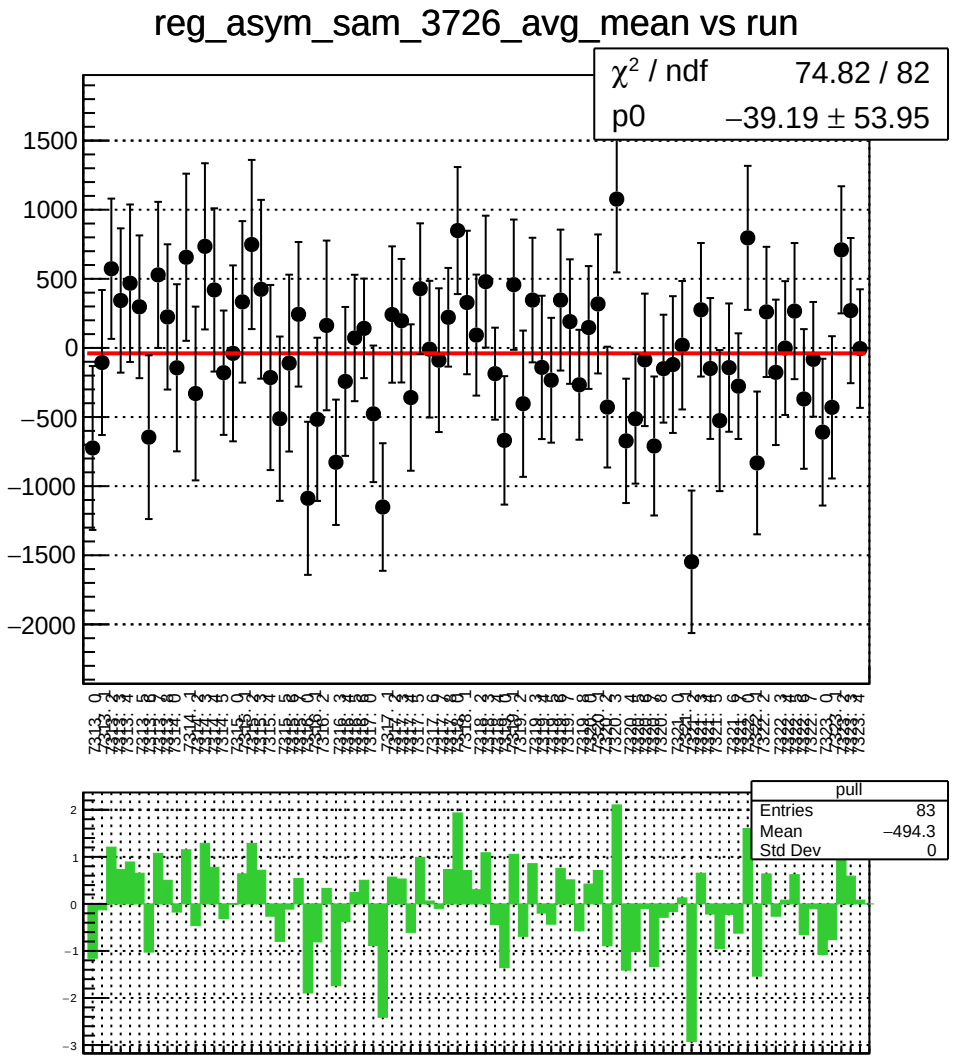

pull1D
Entries 83
Mean 0.05338
Std Dev 1.086

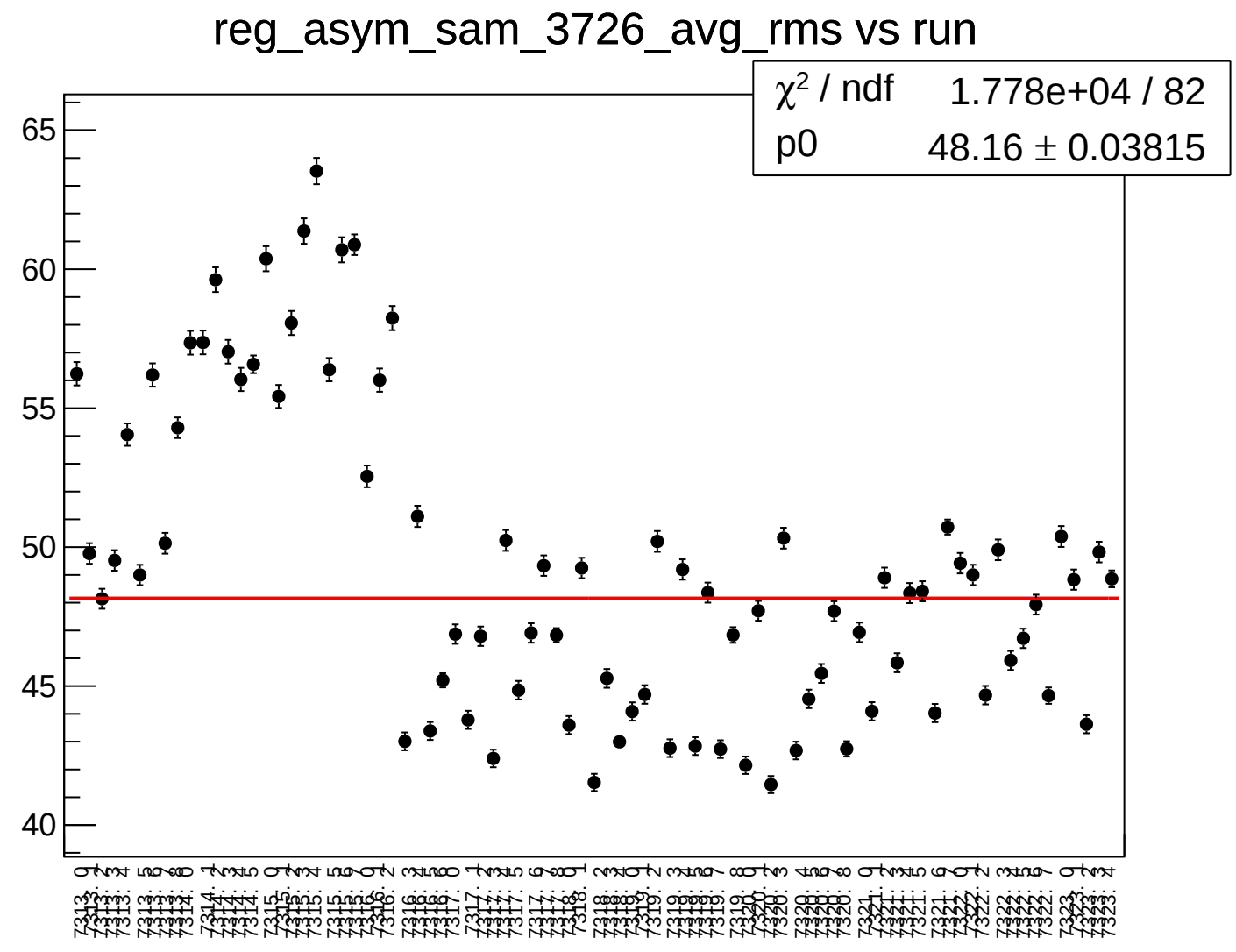

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 82
p0 25.21 ± 0.02105
80
70
60
50
40
30
20

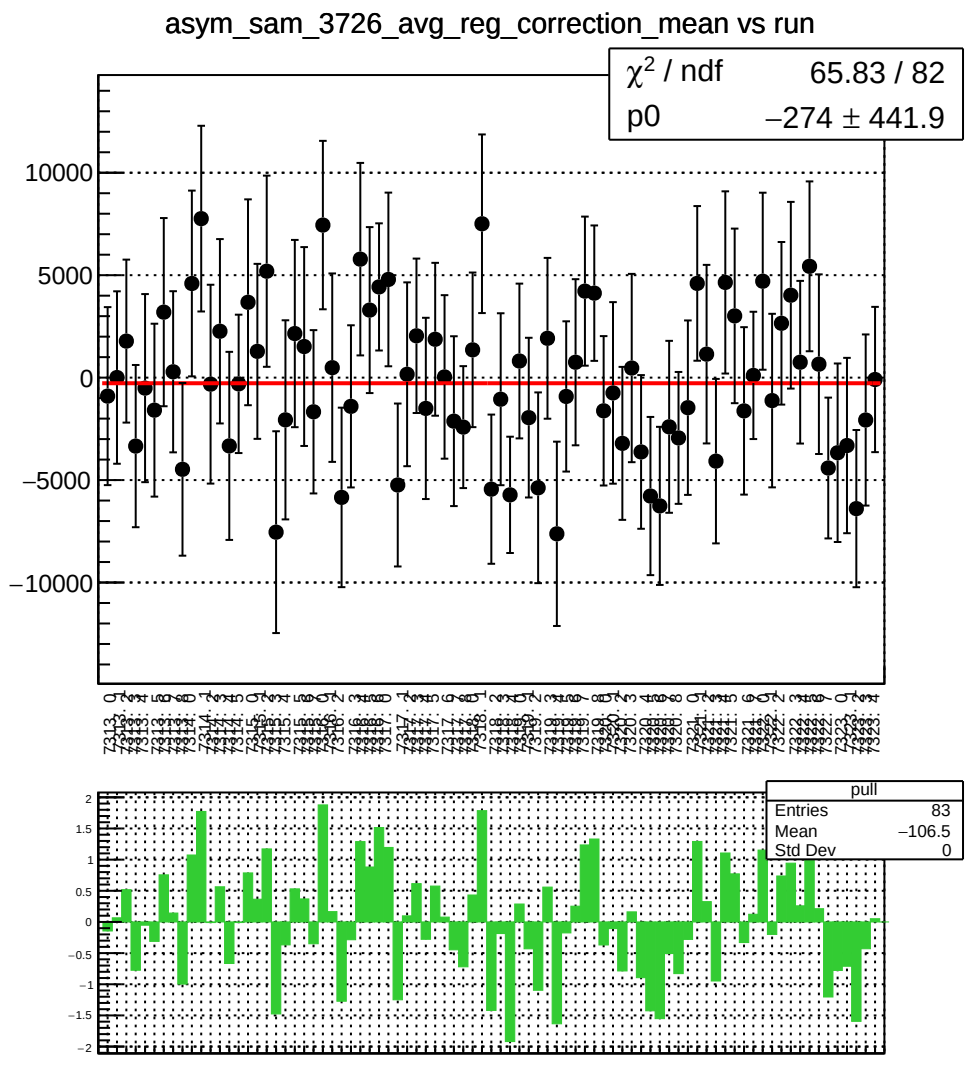

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.63 / 82
p0 −4.322e−15 ± 4.07e−15
pull
Entries 83
Mean 168.5
Std Dev 0

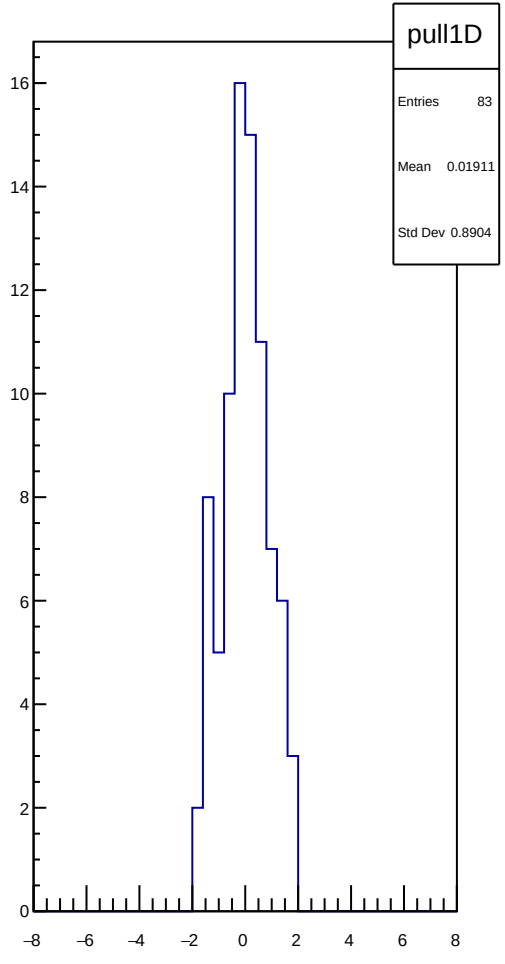

pull1D
Entries 83
Mean −0.02748
Std Dev 1.045

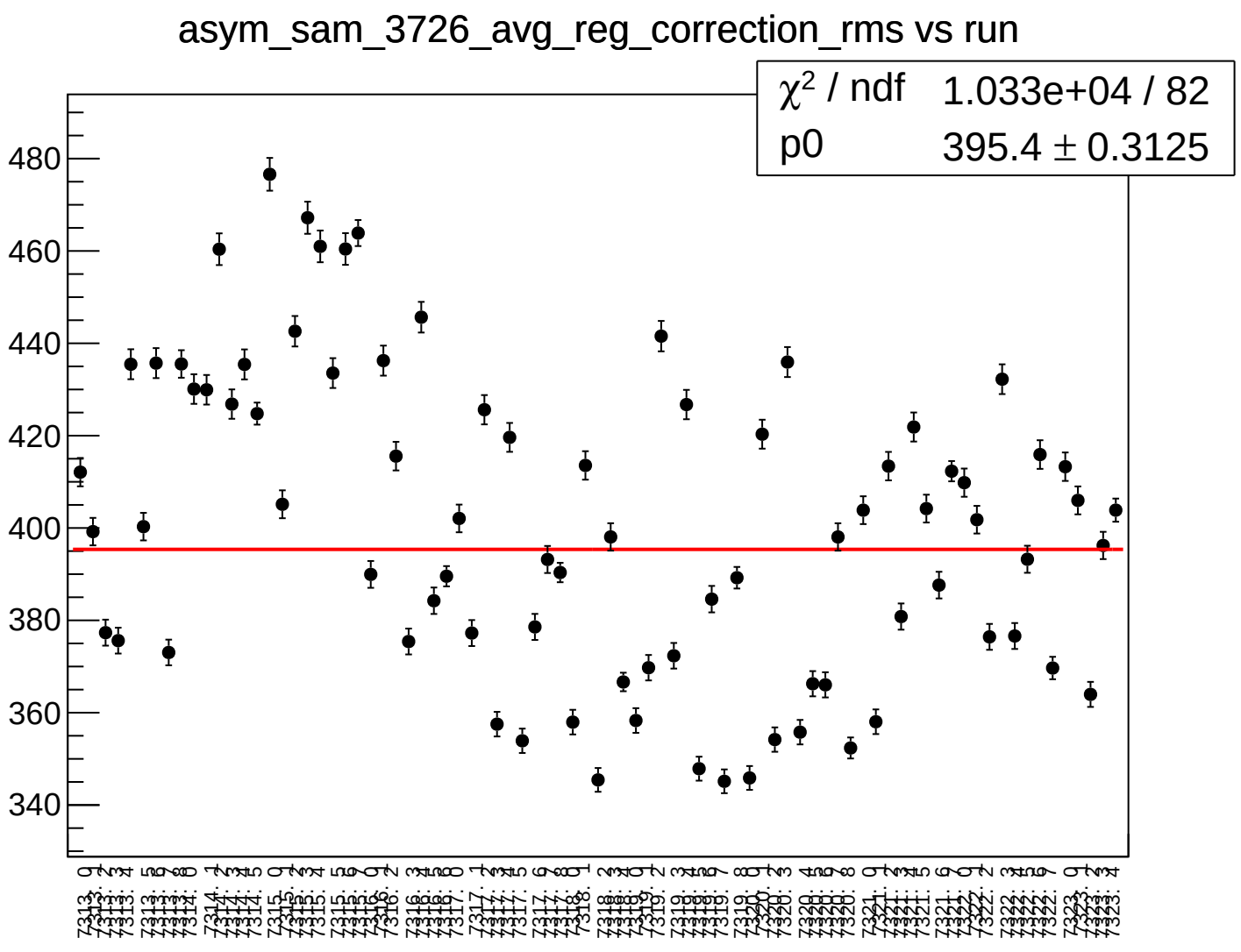

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.064e+05 / 82
p0 2.885e−12 ± 2.878e−15
30
25
20
15
10
5

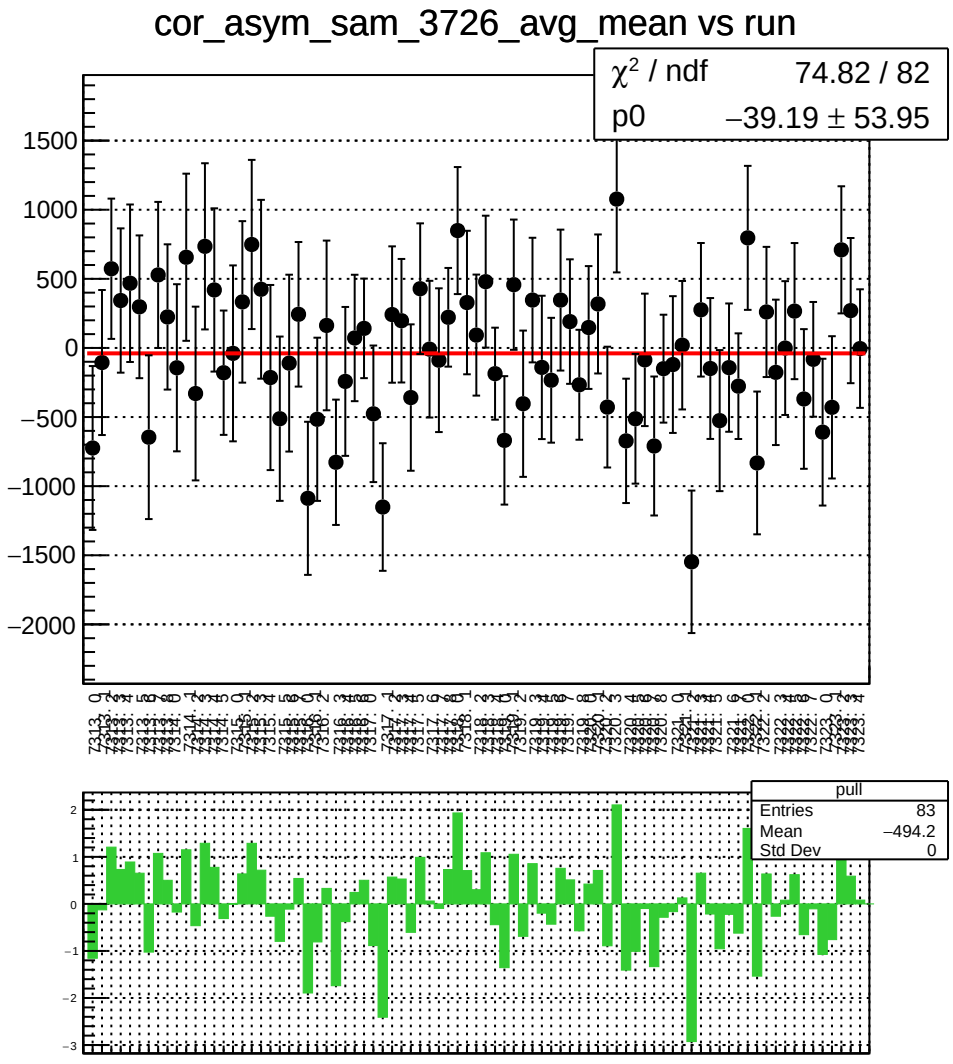

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 74.82 / 82
p0 −39.19 ± 53.95
pull
Entries 83
Mean −494.3
Std Dev 0
pull1D
Entries 83
Mean 0.005452
Std Dev 0.9494

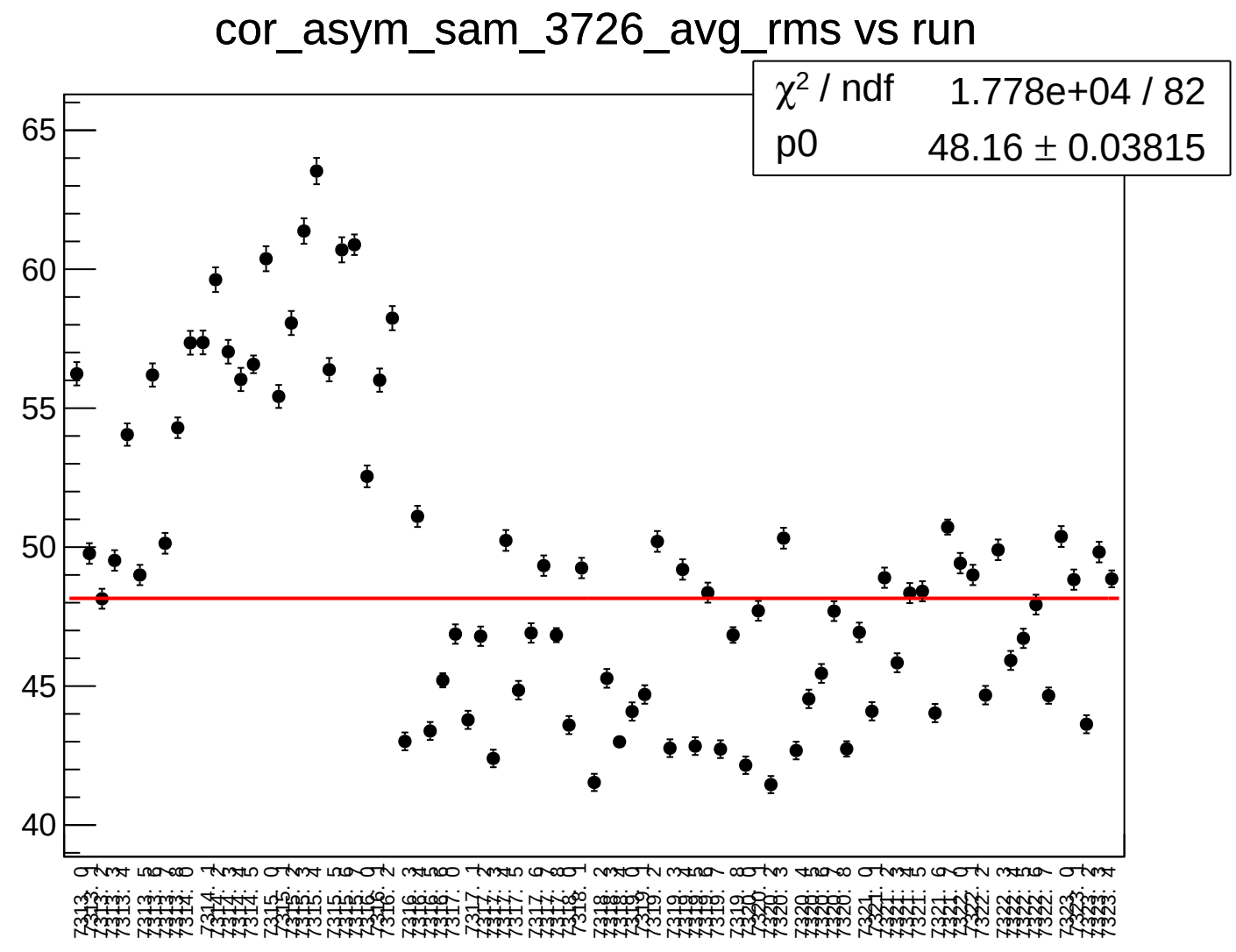

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.778e+04 / 82
p0 48.16 ± 0.03815
65
60
55
50
45
40

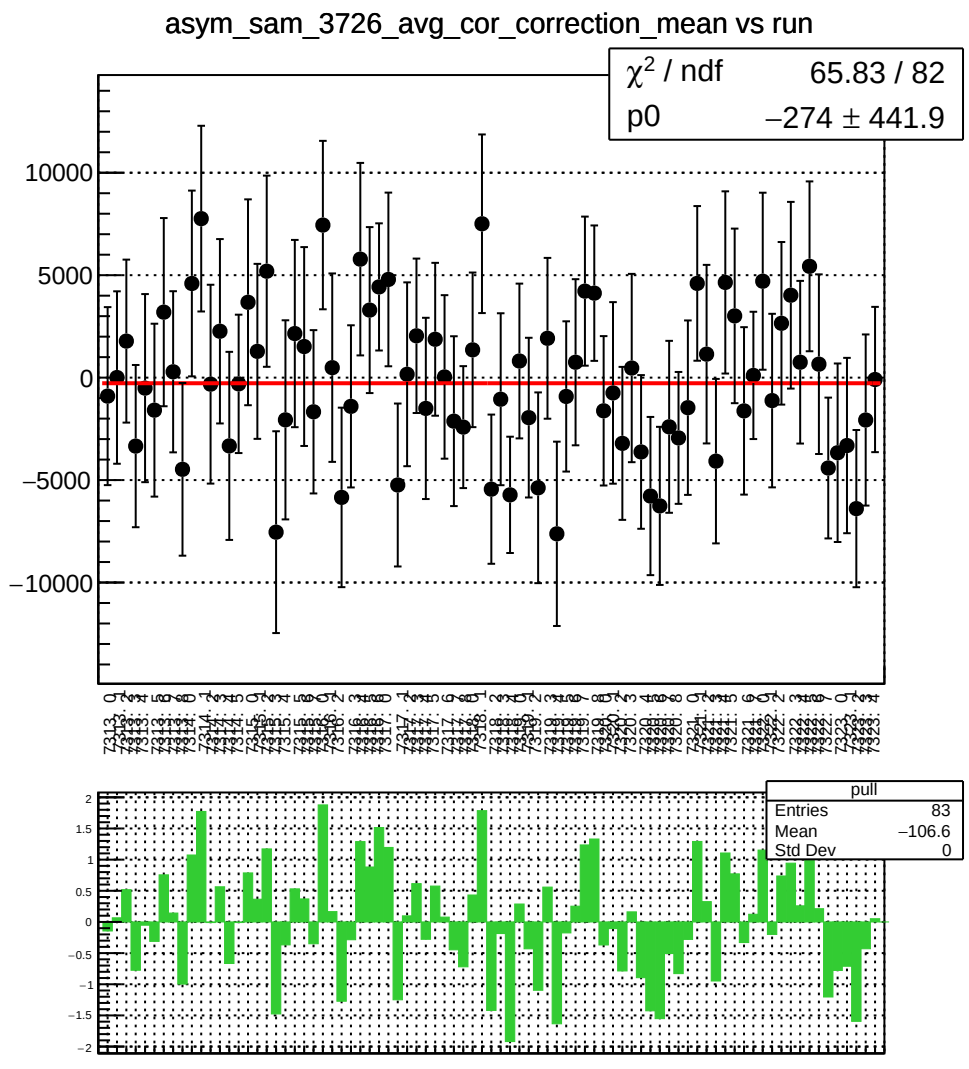

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 65.83 / 82
p0 −274 ± 441.9
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −106.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

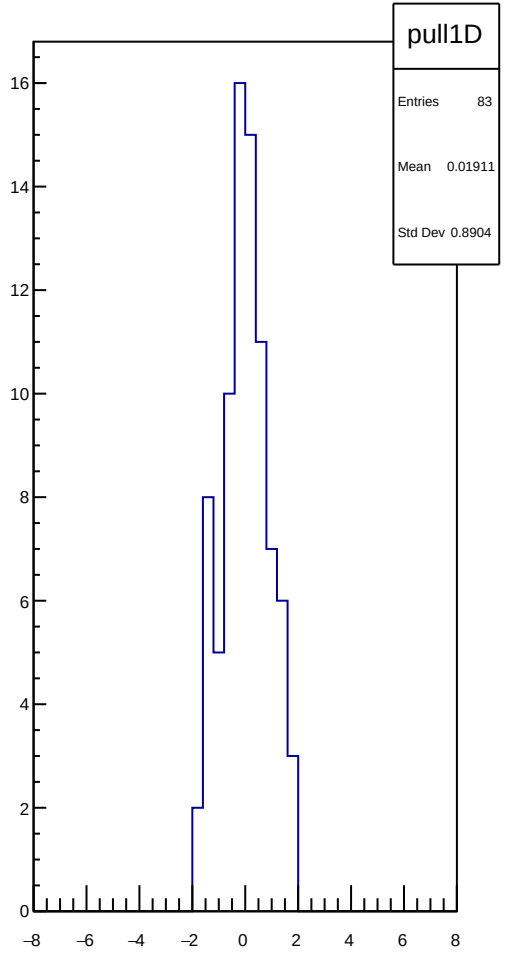

pull1D
Entries 83
Mean 0.01911
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

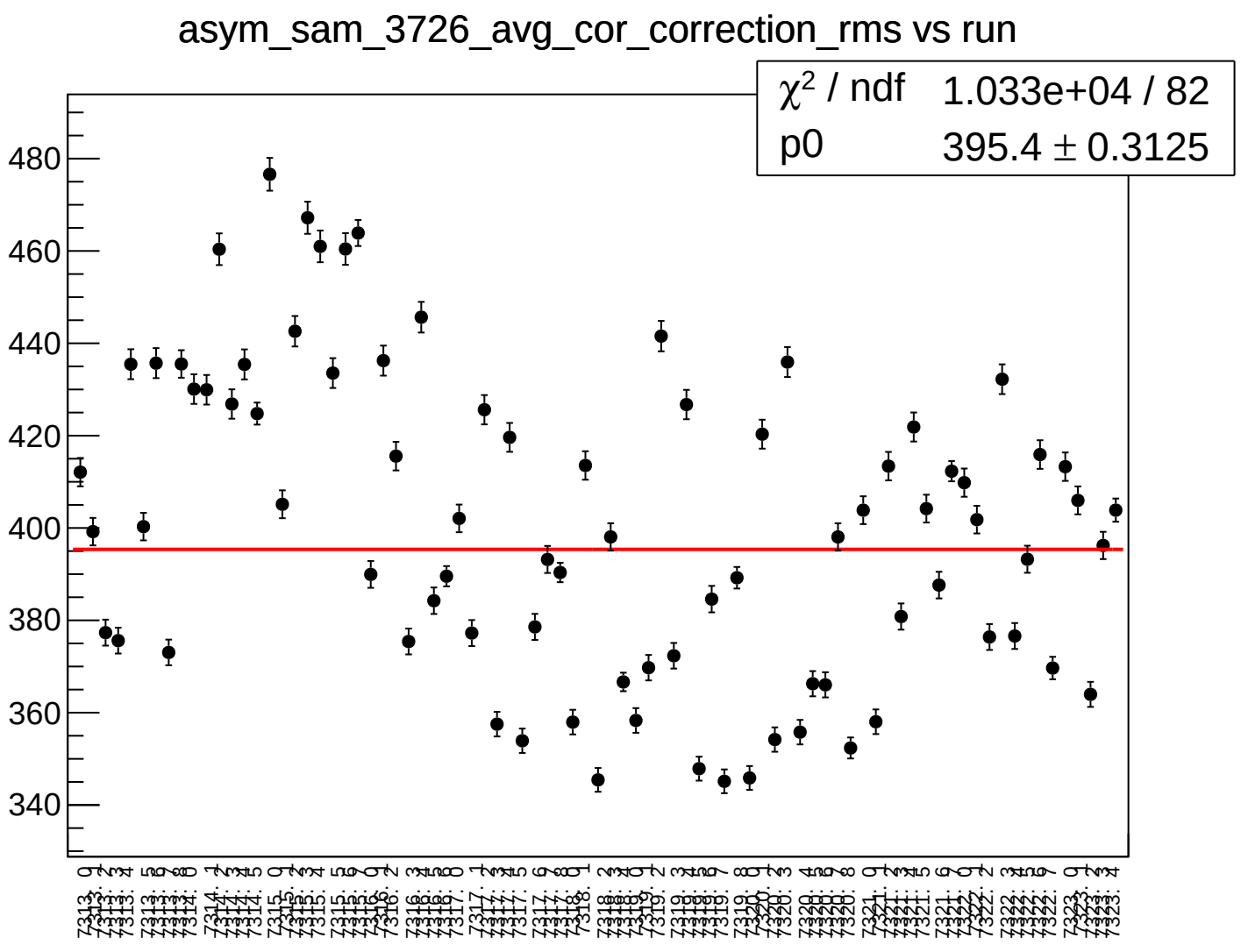

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.033e+04 / 82
p0 395.4 ± 0.3125
480
460
440
420
400
380
360
340

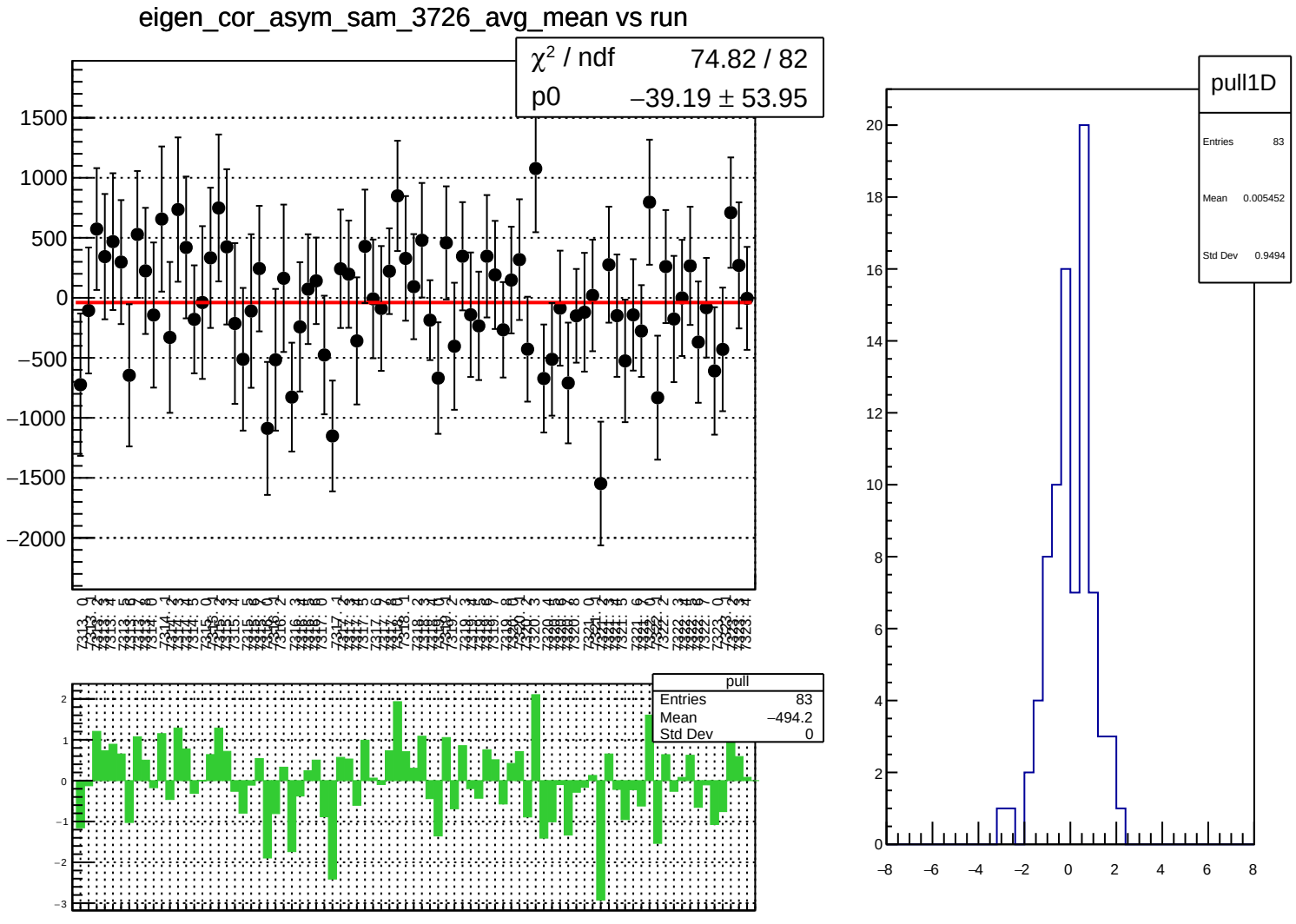

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 74.82 / 82
p0 −39.19 ± 53.95
pull
Entries 83
Mean −494.2
Std Dev 0
pull1D
Entries 83
Mean 0.005452
Std Dev 0.9494

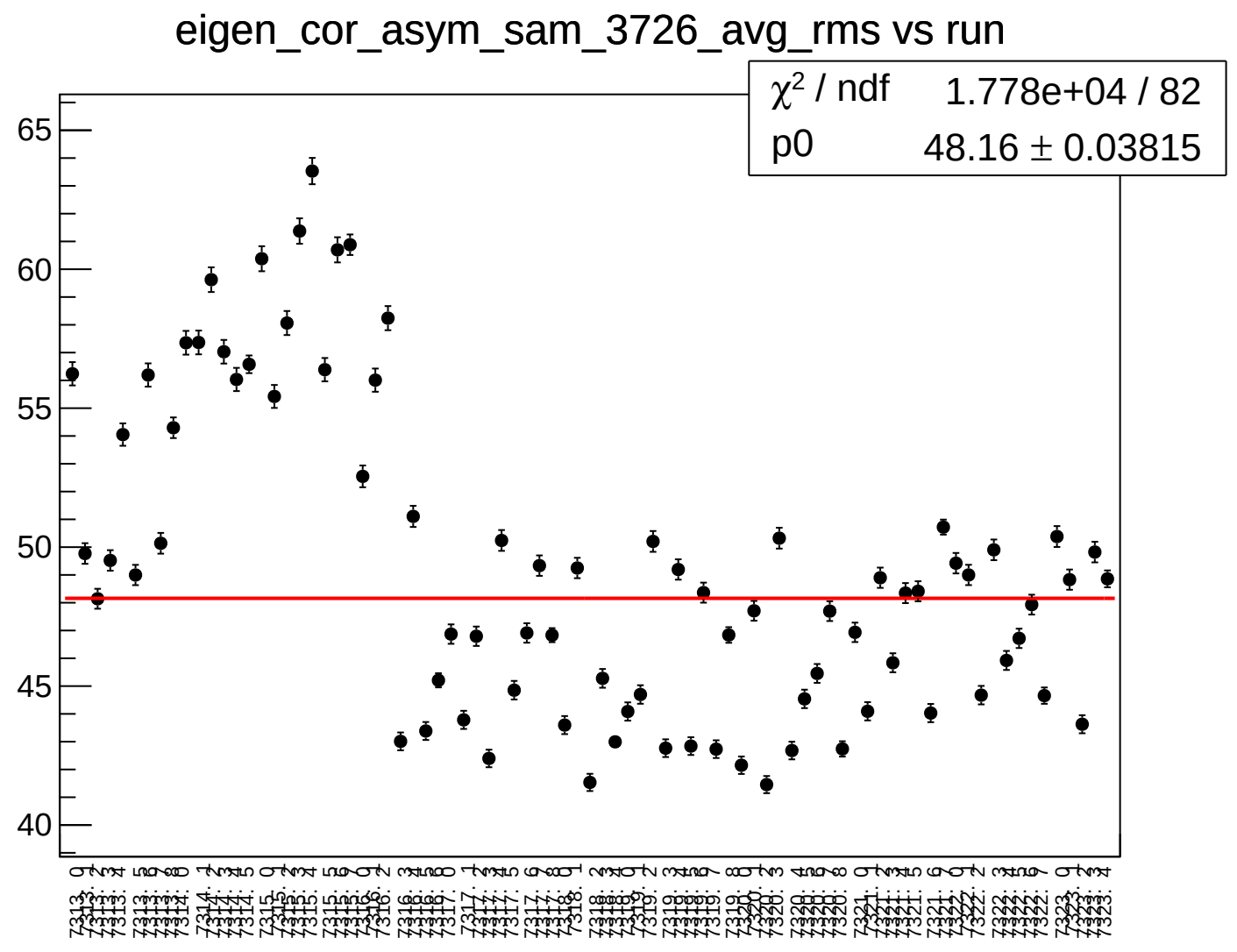

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.778e+04 / 82
p0 48.16 ± 0.03815
65
60
55
50
45
40

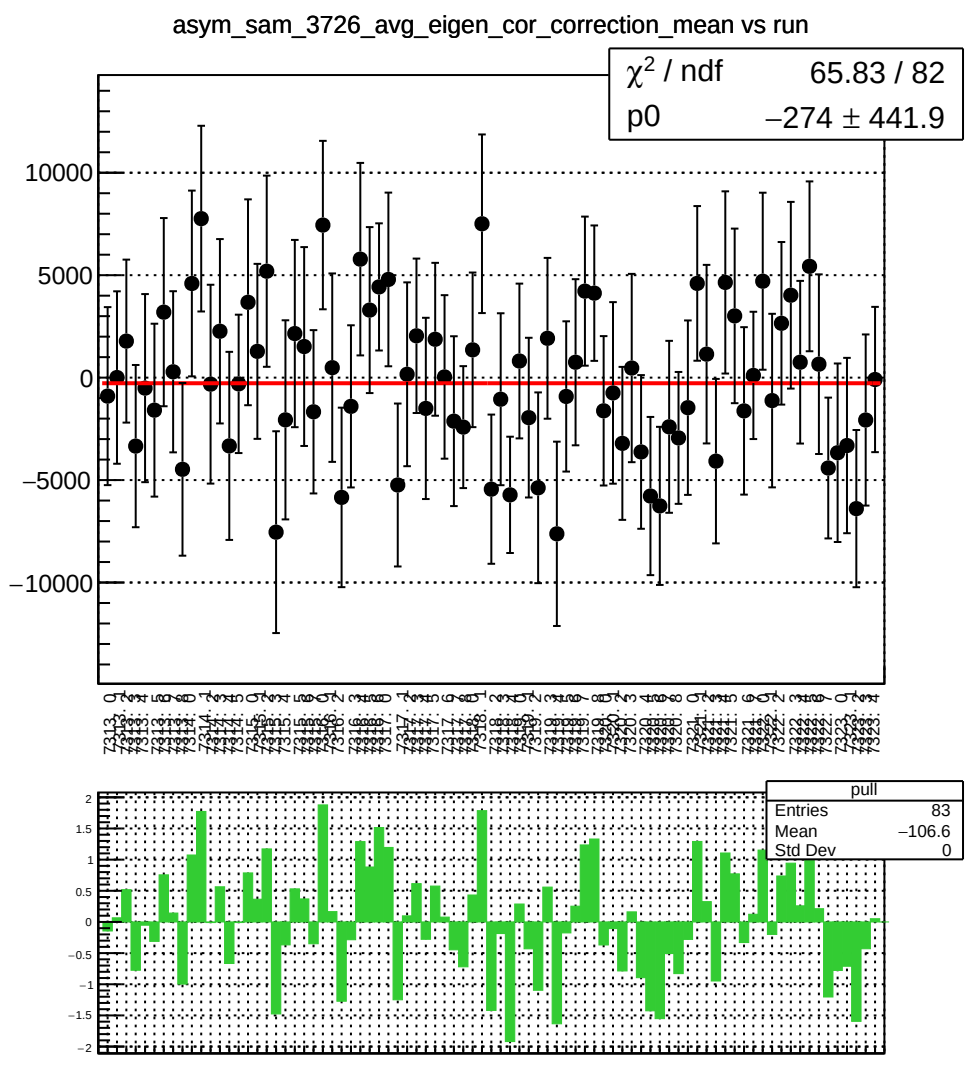

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 65.83 / 82
p0 −274 ± 441.9
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −106.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

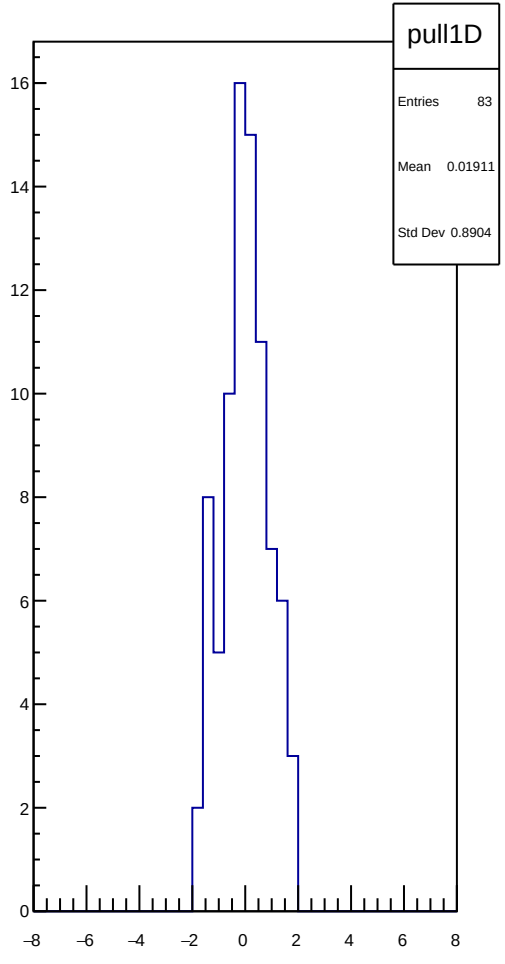

pull1D
Entries 83
Mean 0.01911
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

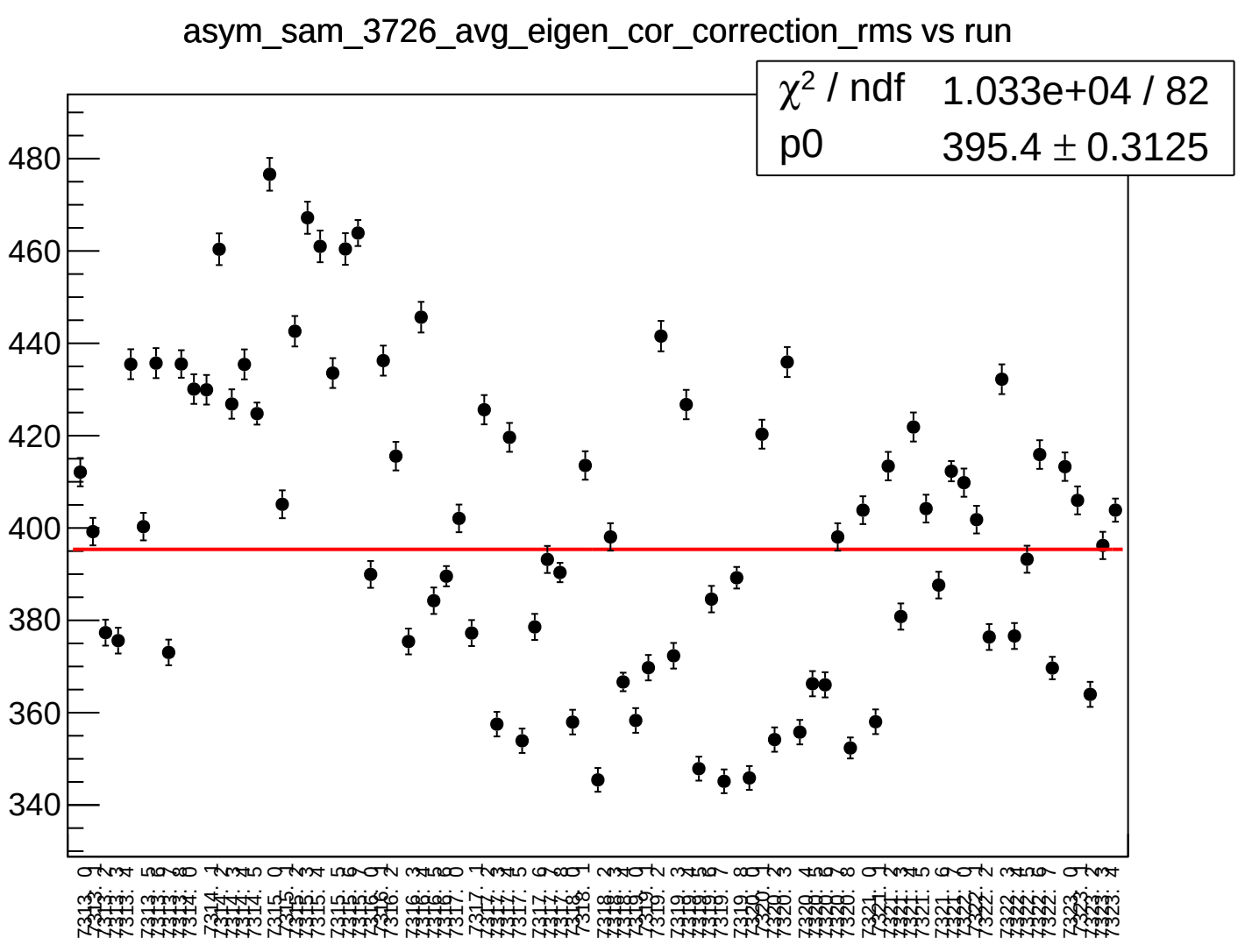

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.033e+04 / 82
p0 395.4 ± 0.3125
480
460
440
420
400
380
360
340

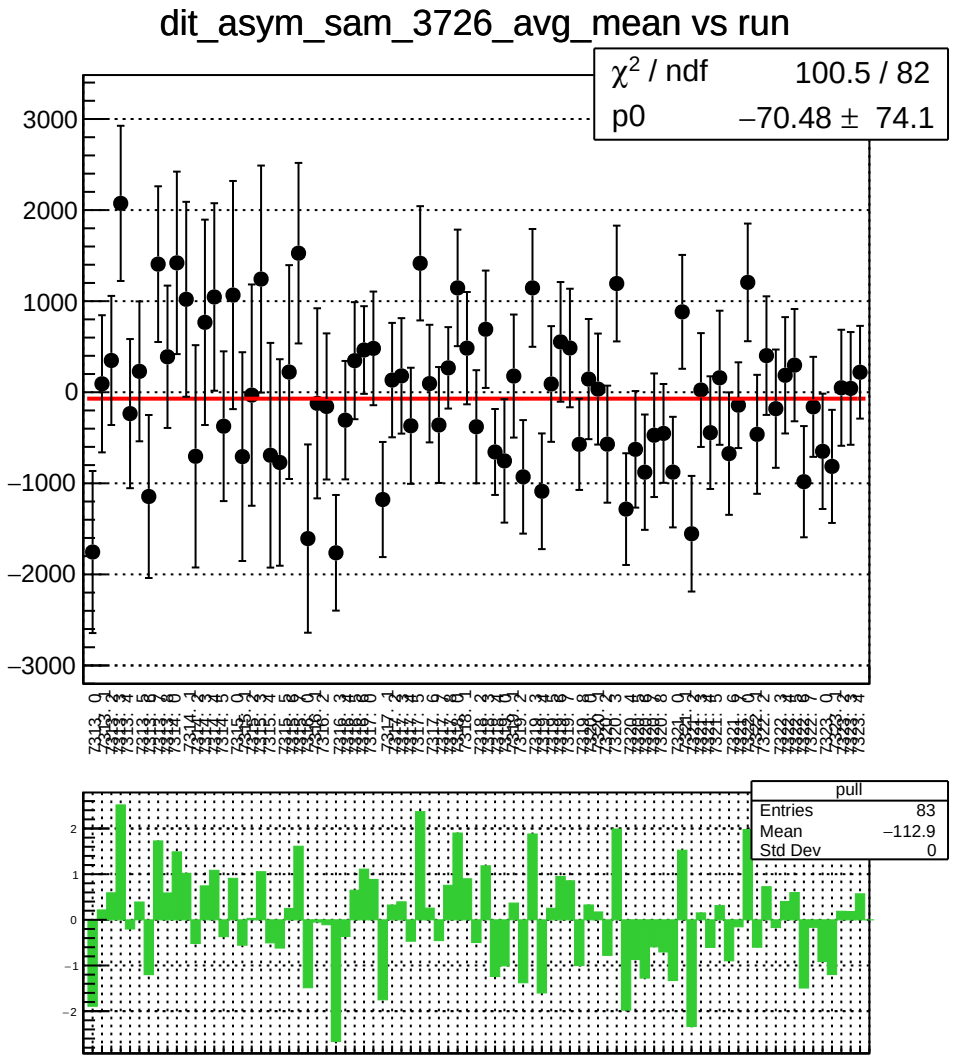

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 74.82 / 82
p0 −39.19 ± 53.95
pull
Entries 83
Mean −494.2
Std Dev 0
pull1D
Entries 83
Mean 0.005452
Std Dev 0.9494

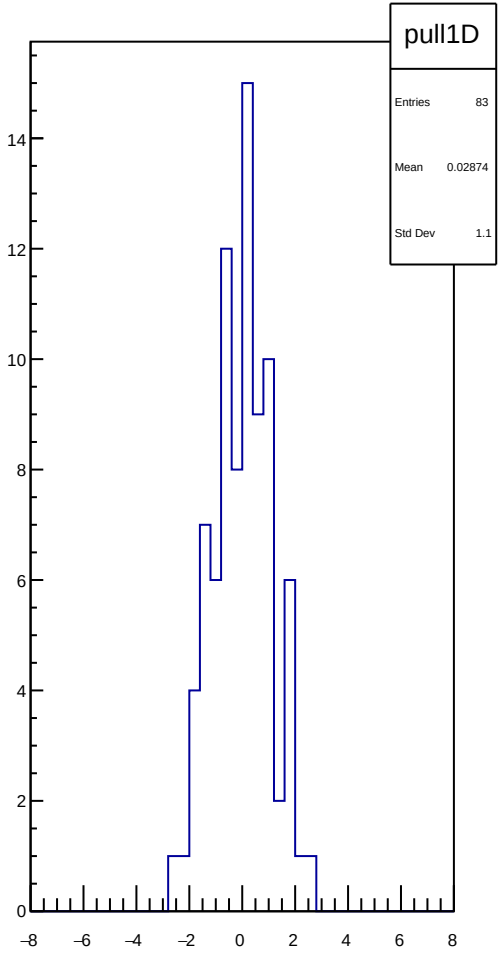

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.778e+04 / 82
p0 48.16 ± 0.03815
65
60
55
50
45
40

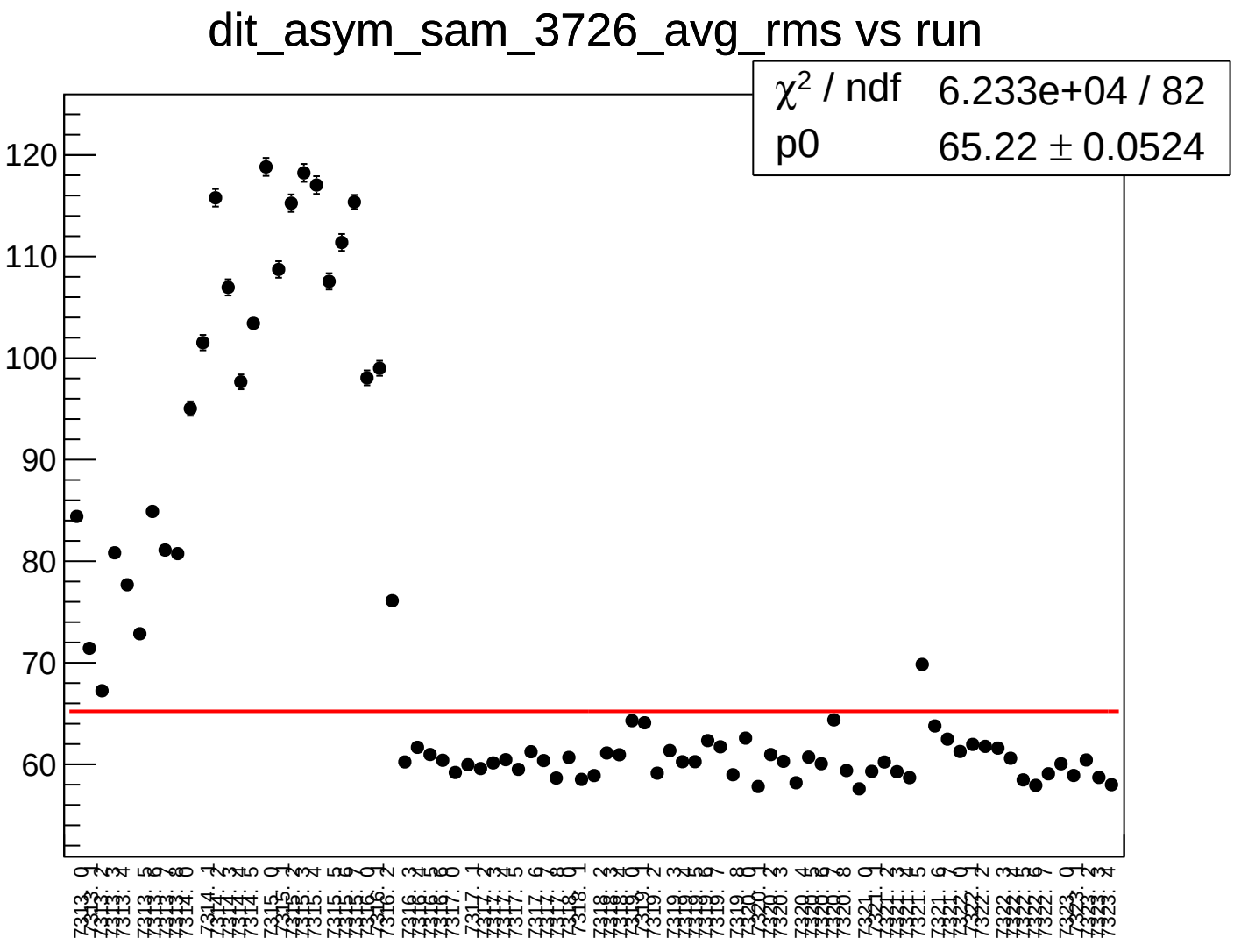

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.83 / 82
p0 −274 ± 441.9
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −106.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

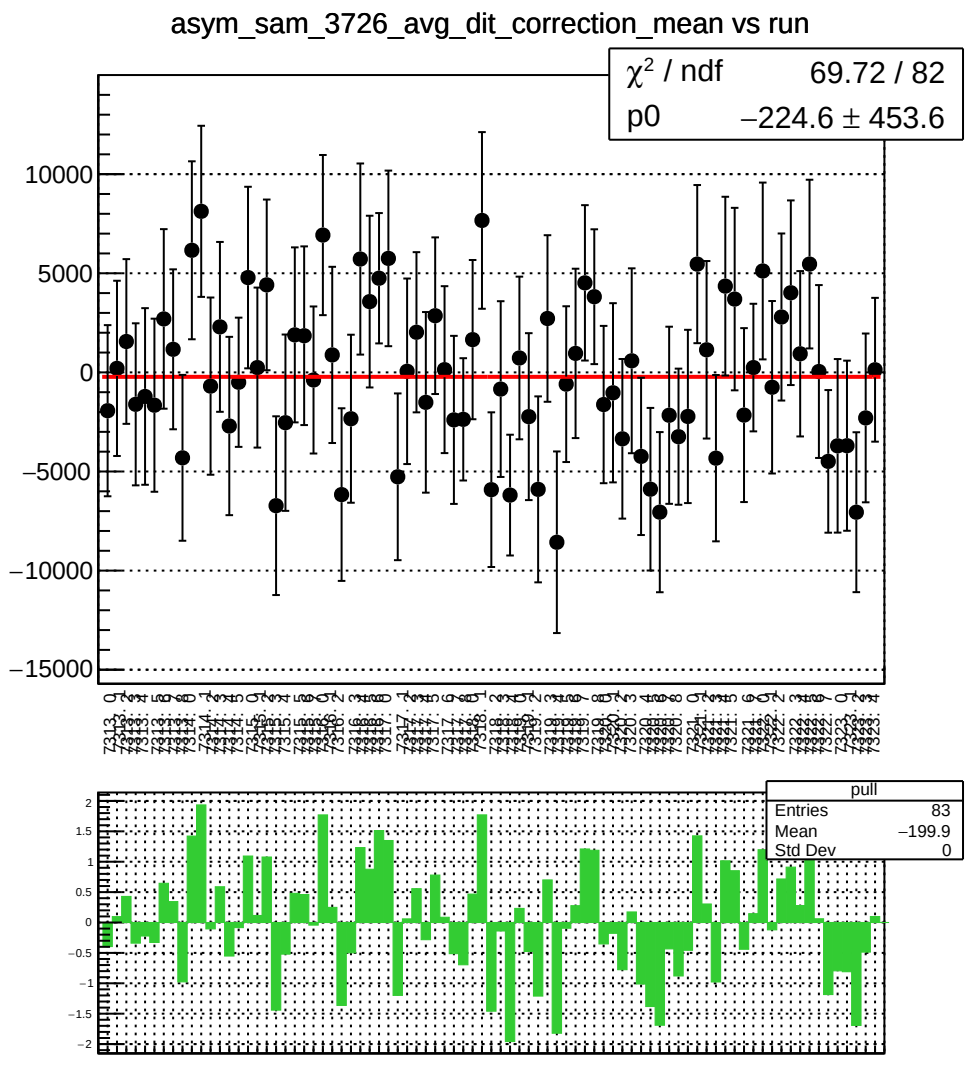

pull1D
Entries 83
Mean 0.01911
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

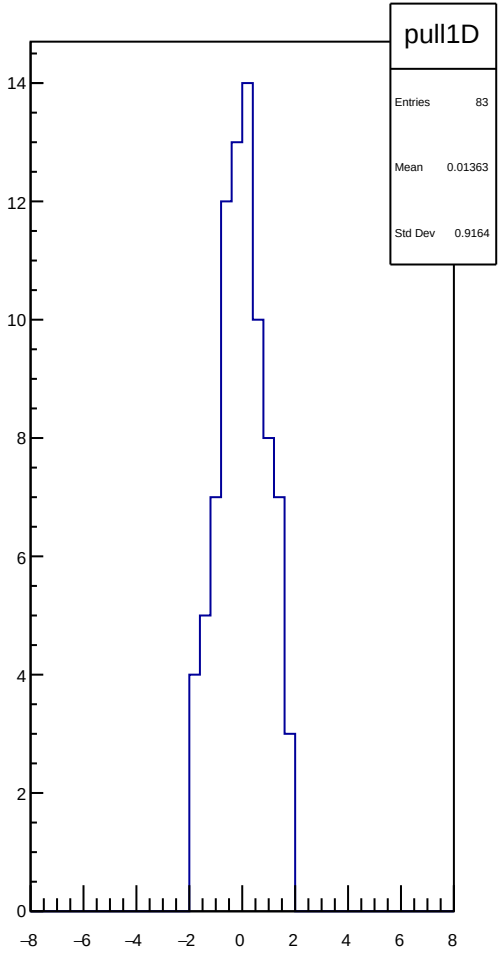

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.033e+04 / 82
p0 395.4 ± 0.3125
480
460
440
420
400
380
360
340

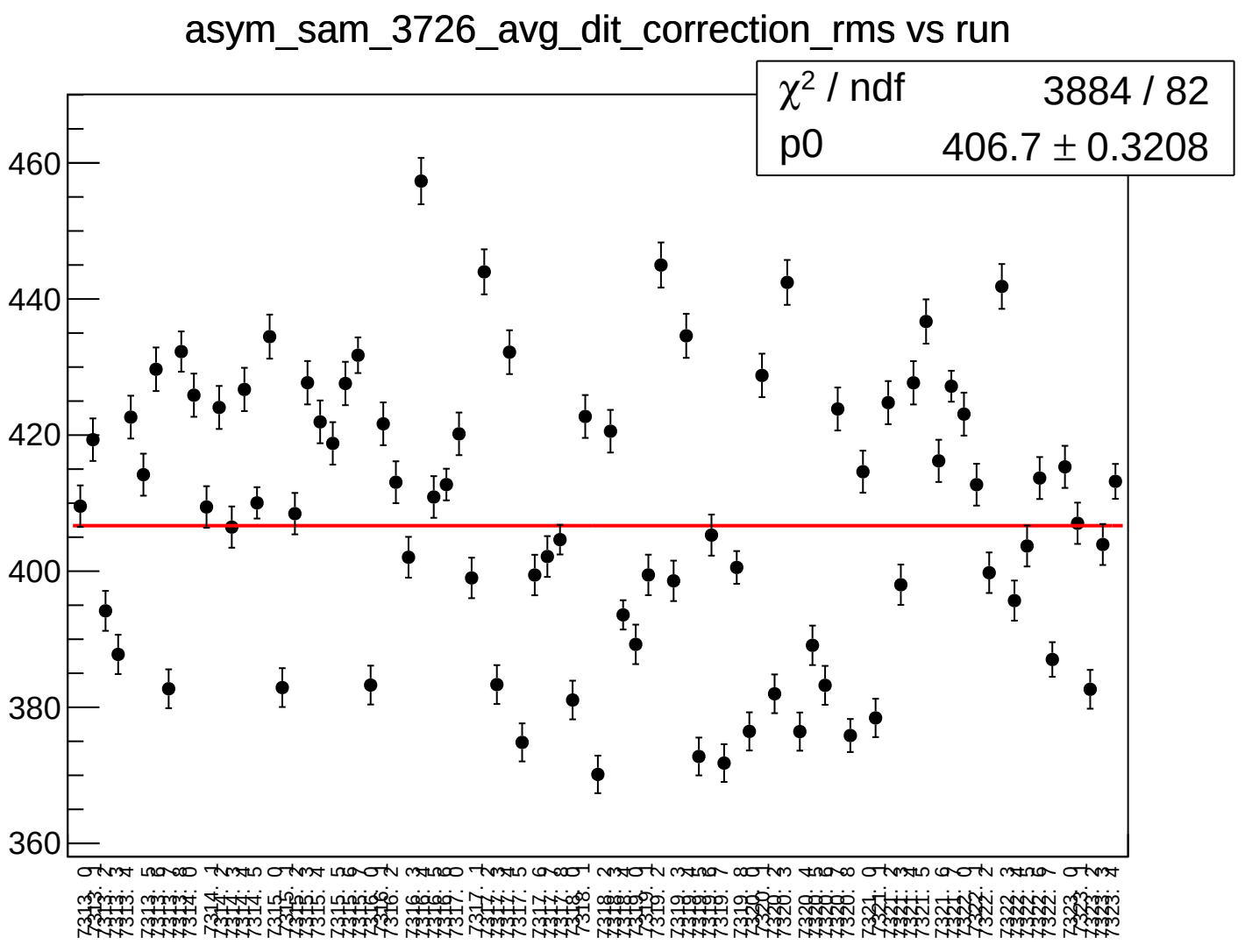

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 100.5 / 82
p0 −70.48 ± 74.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −112.9
Std Dev 0
2
1
0
−1
−2

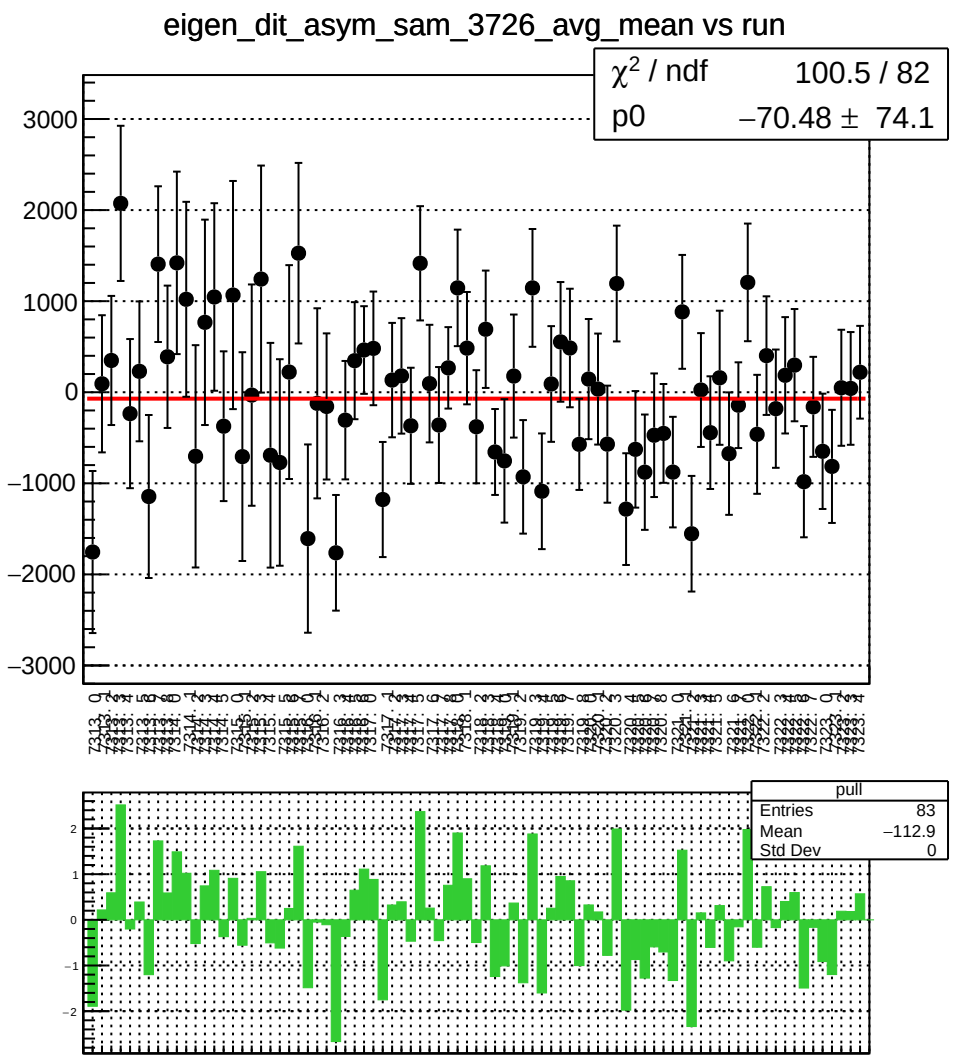

pull1D
Entries 83
Mean 0.02874
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

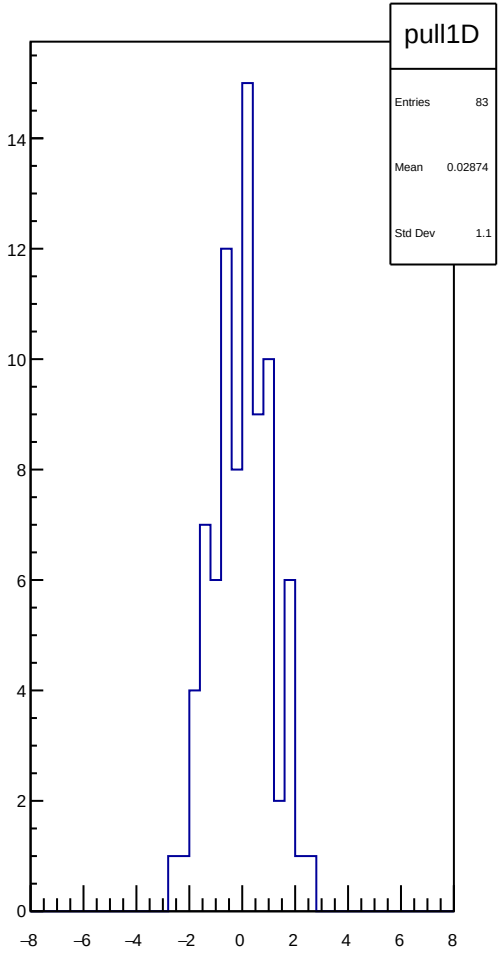

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 6.233e+04 / 82
p0 65.22 ± 0.0524
120
110
100
90
80
70
60

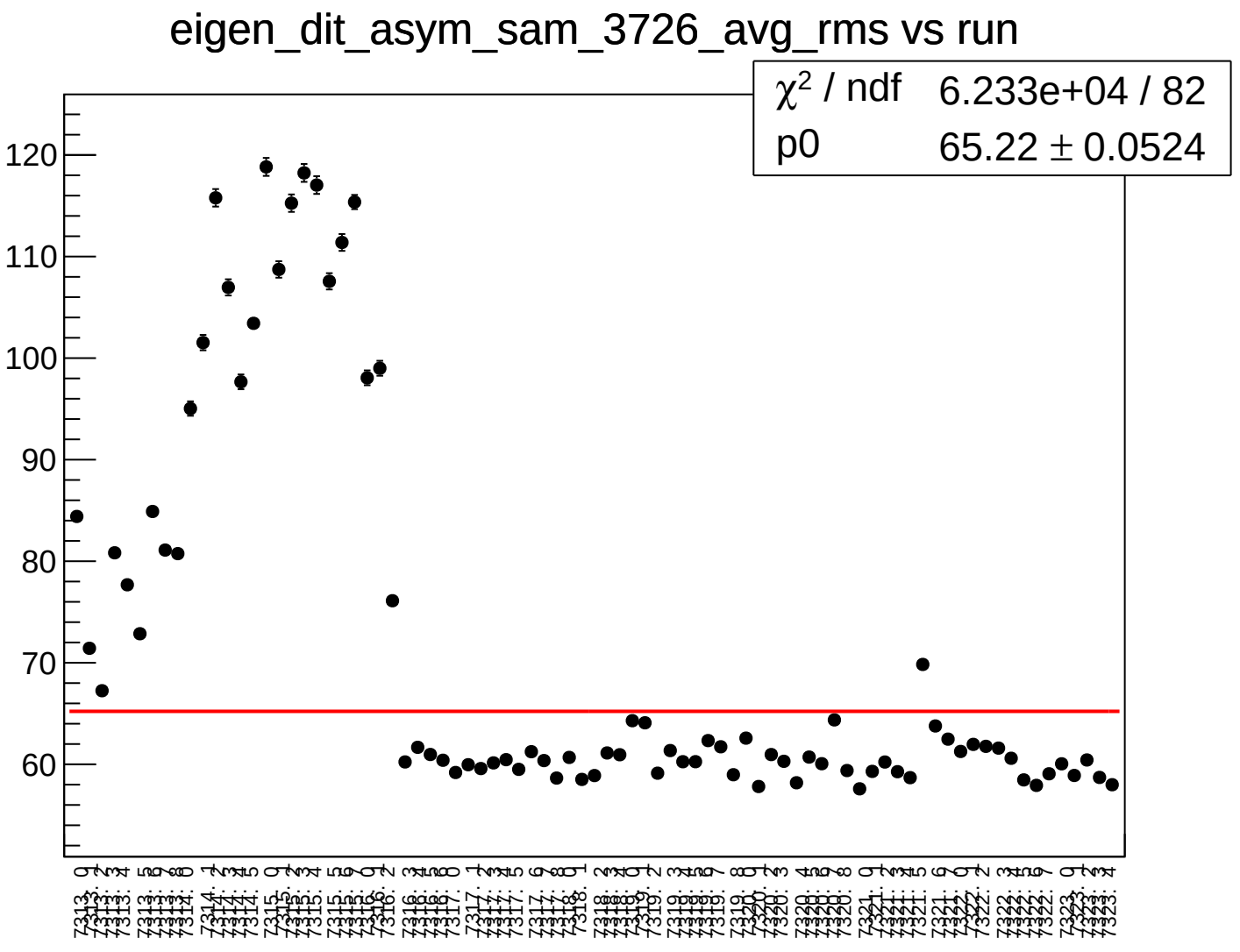

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 69.72 / 82
p0 −224.6 ± 453.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −199.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

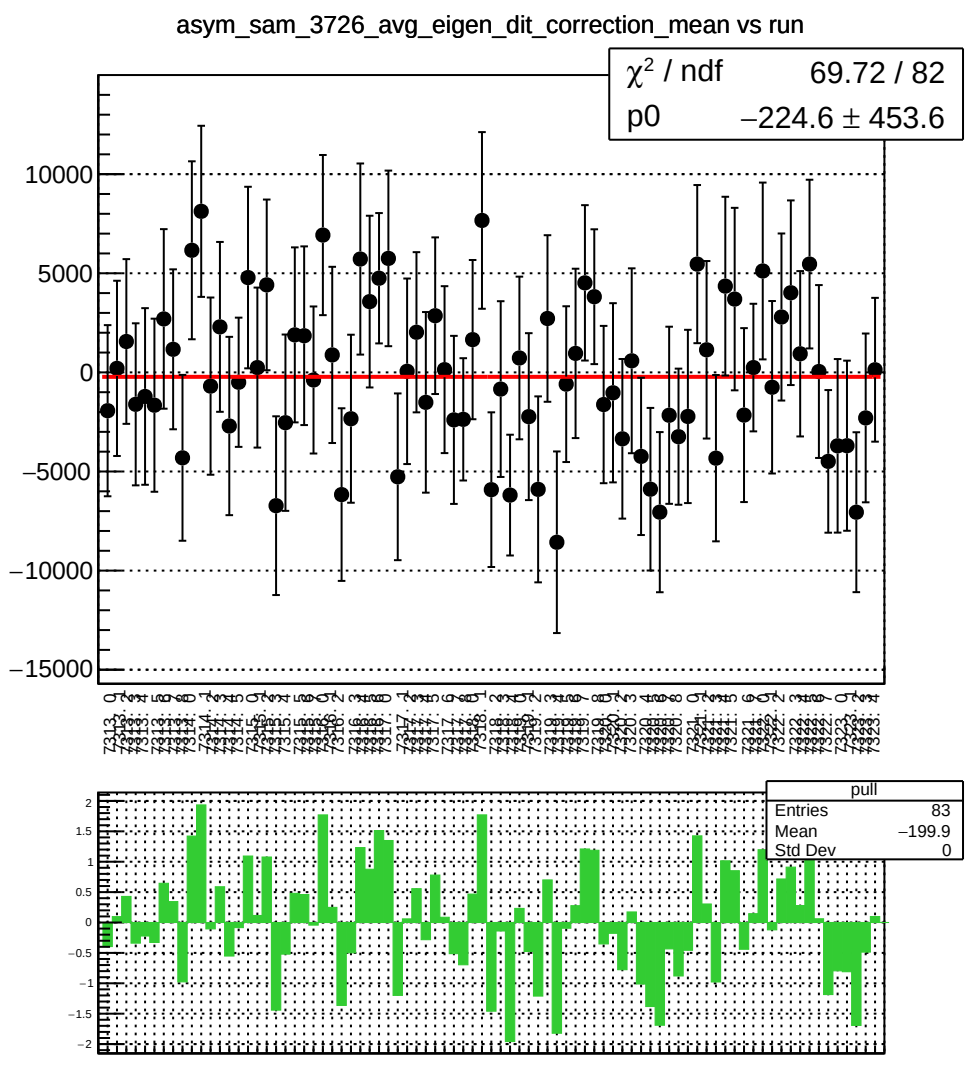

pull1D
Entries 83
Mean 0.01363
Std Dev 0.9164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

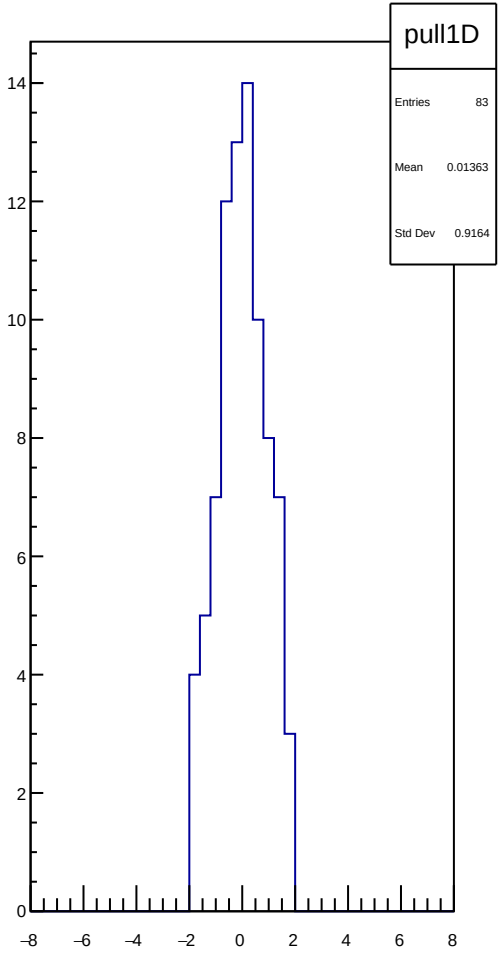

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3884 / 82
p0 406.7 ± 0.3208
460
440
420
400
380
360

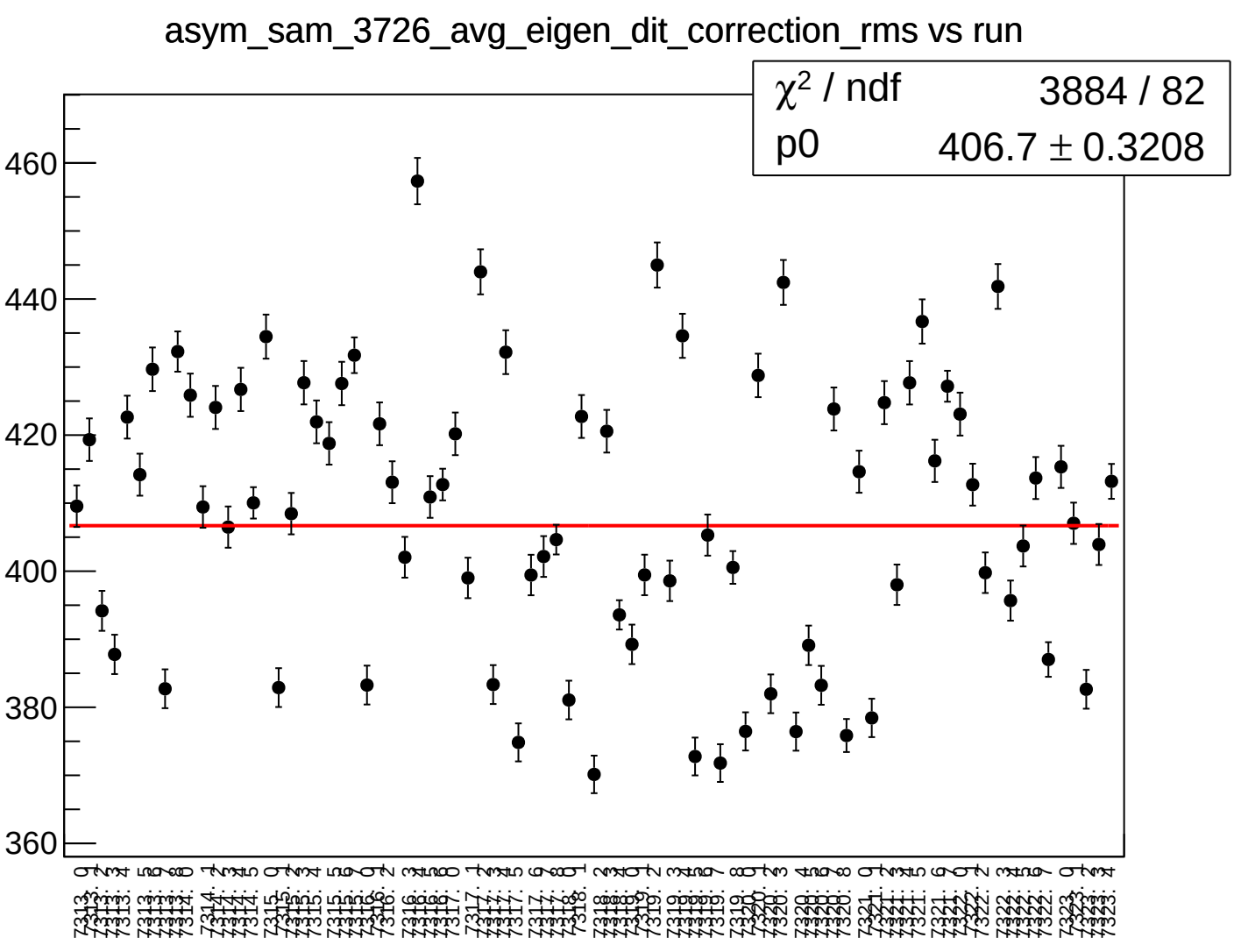

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 100.5 / 82
p0 −70.48 ± 74.1
pull
Entries 83
Mean −112.9
Std Dev 0

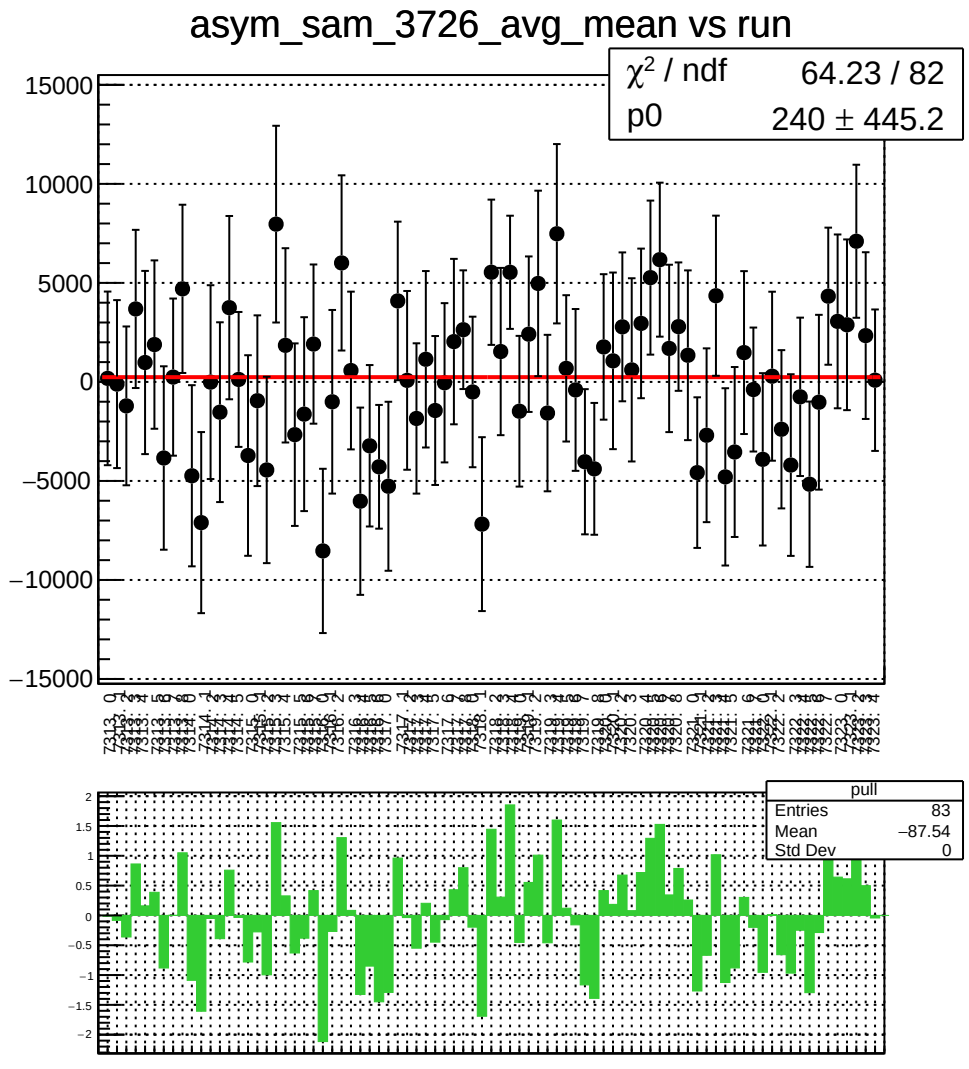

pull1D
Entries 83
Mean 0.02874
Std Dev 1.1

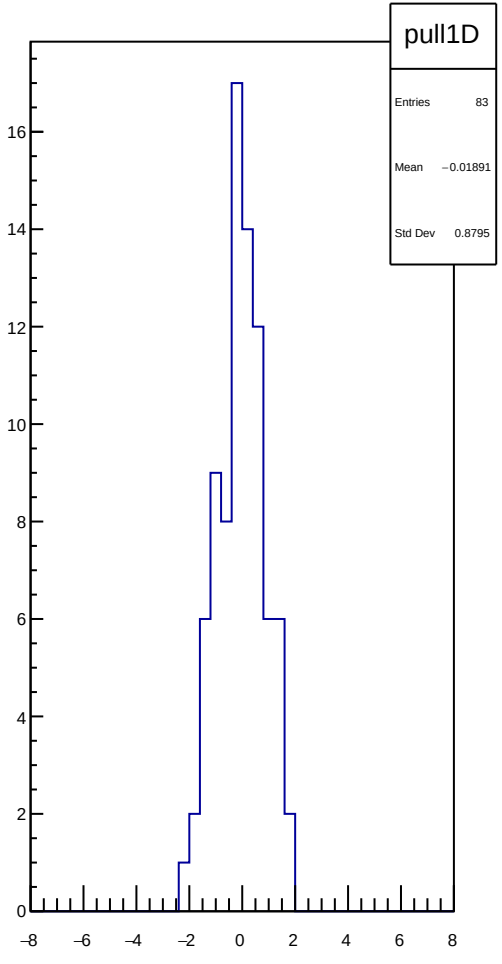

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6.233e+04 / 82
p0 65.22 ± 0.0524
120
110
100
90
80
70
60

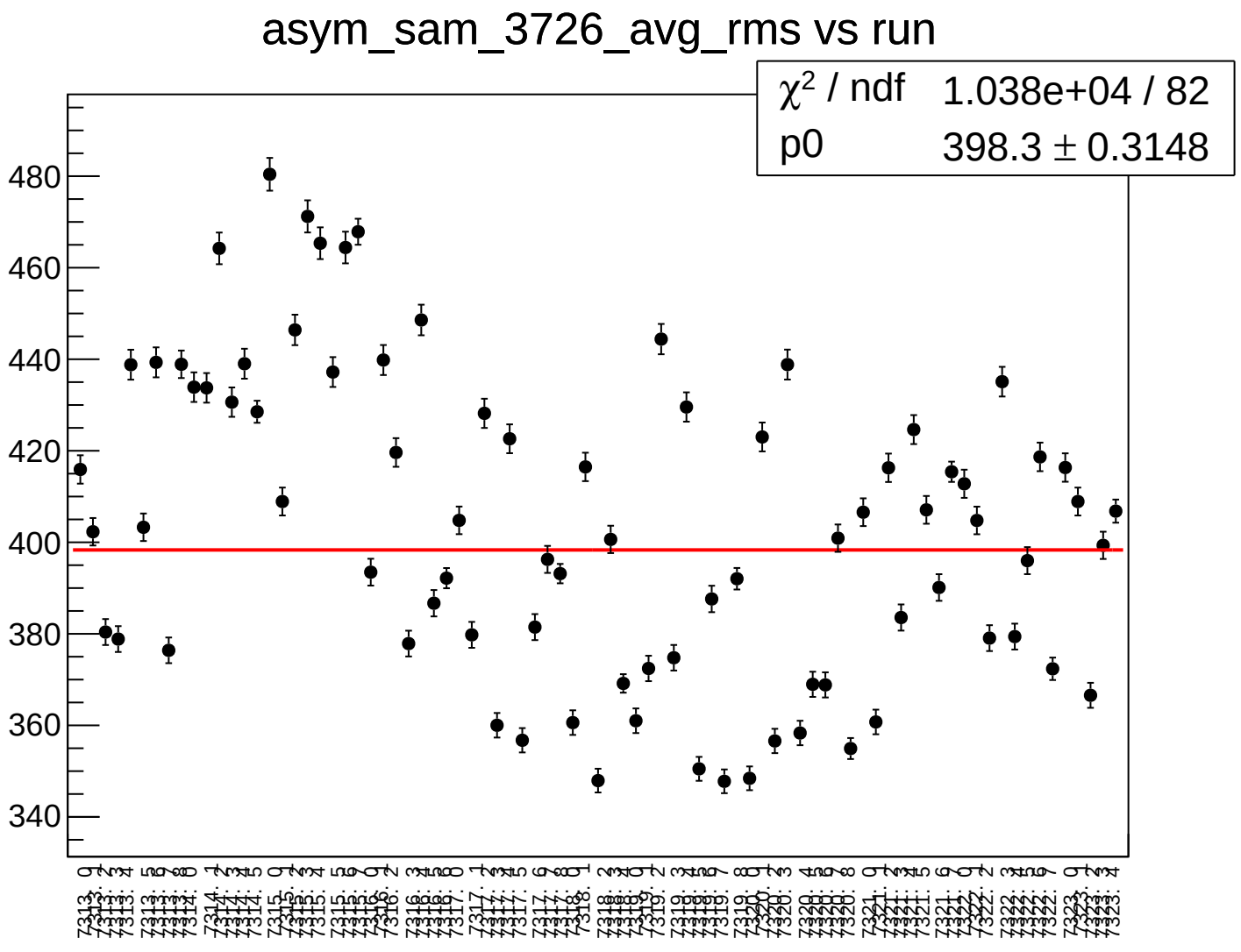

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.72 / 82
p0 −224.6 ± 453.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −199.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

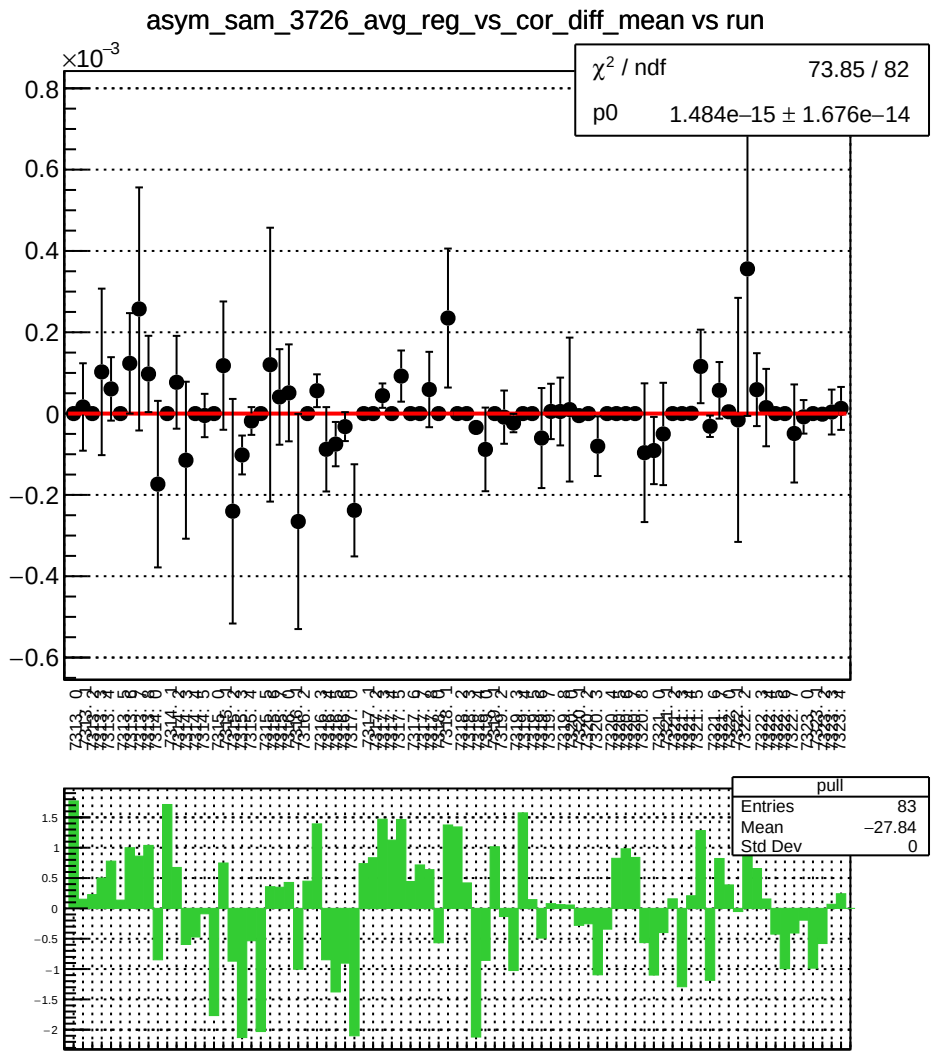

pull1D
Entries 83
Mean 0.01363
Std Dev 0.9164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

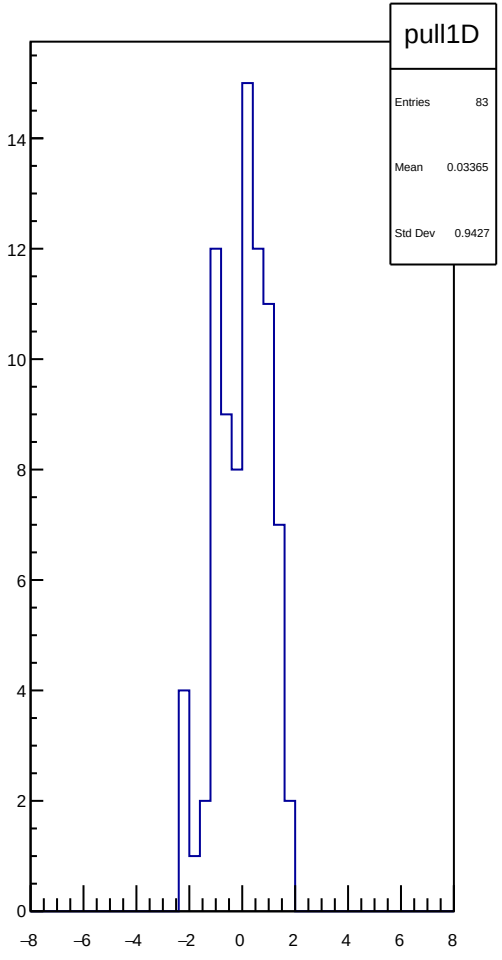

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3884 / 82
p0 406.7 ± 0.3208
460
440
420
400
380
360

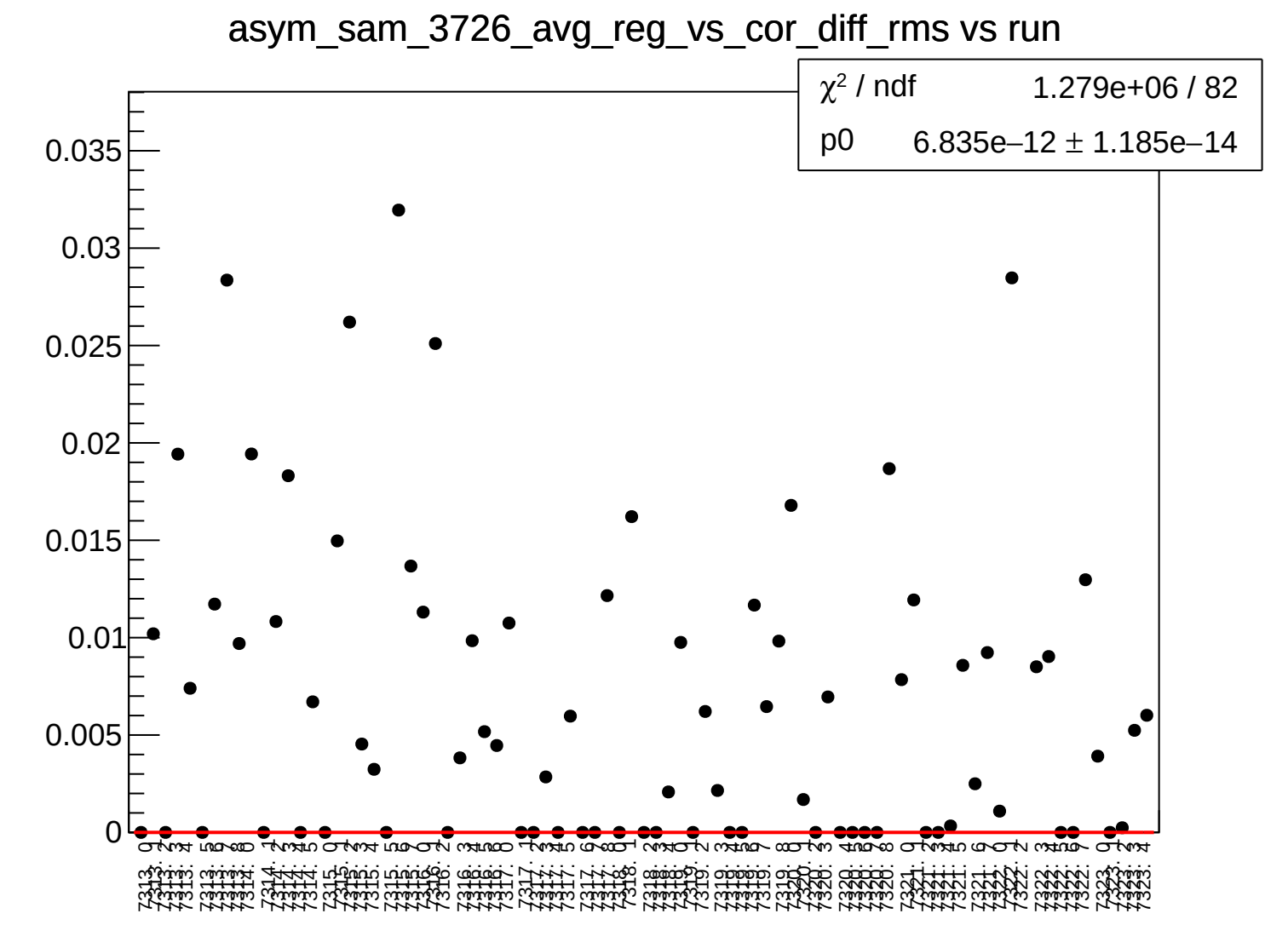

asym_sam_3726_avg_mean vs run
χ² / ndf 64.23 / 82
p0 240 ± 445.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean −87.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

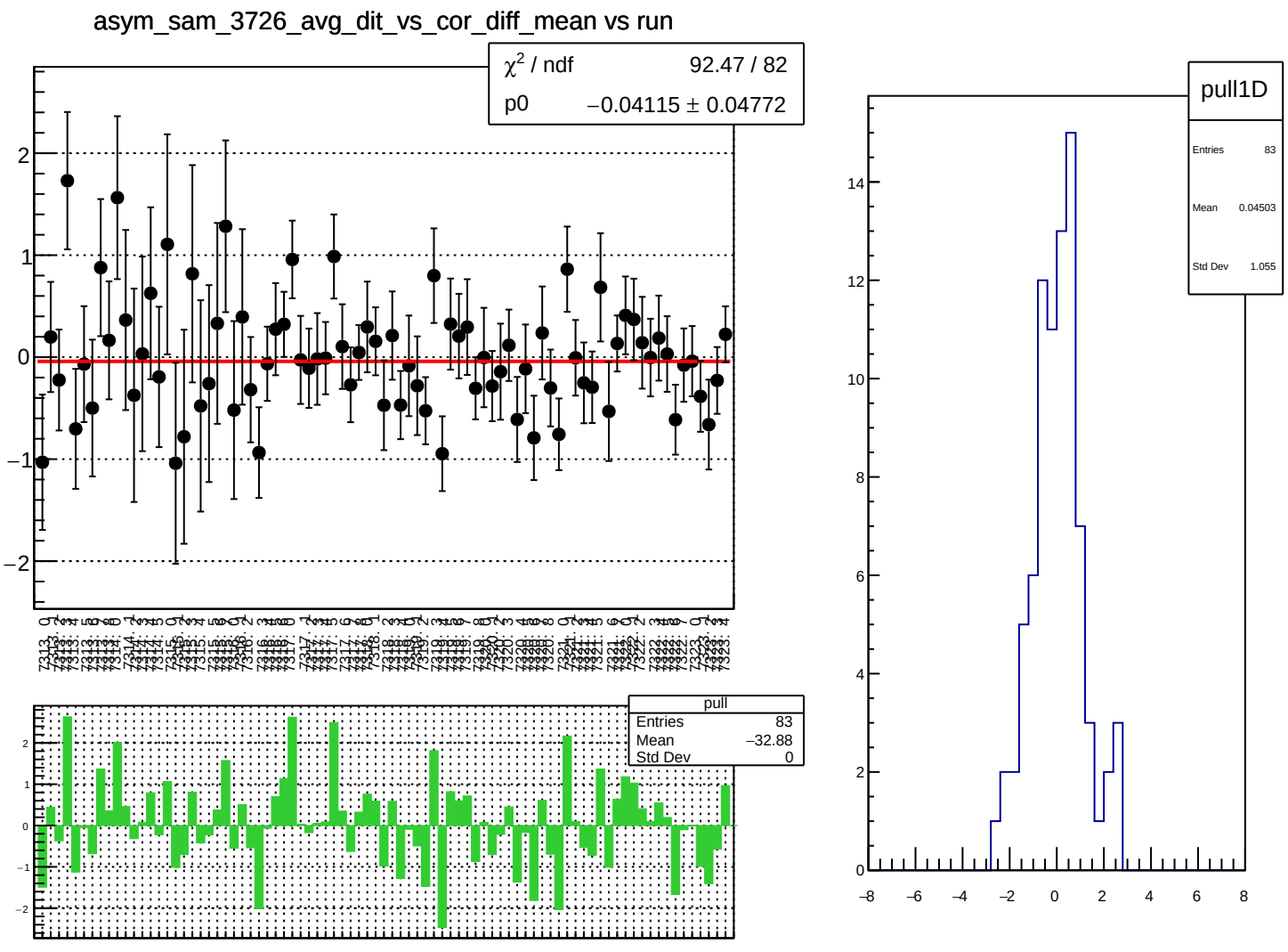

pull1D
Entries 83
Mean −0.01891
Std Dev 0.8795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

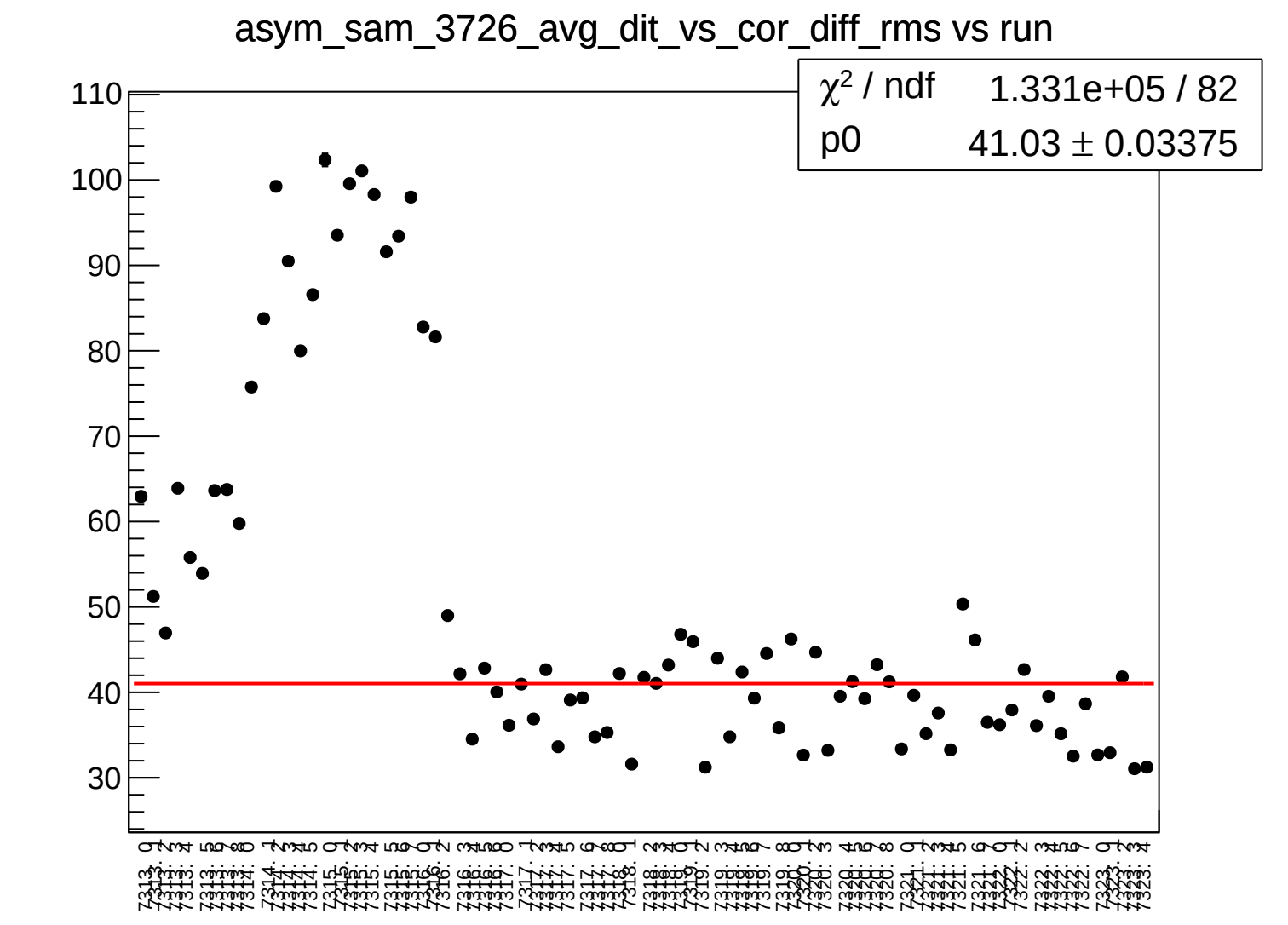

asym_sam_3726_avg_rms vs run
χ² / ndf 1.038e+04 / 82
p0 398.3 ± 0.3148
480
460
440
420
400
380
360
340

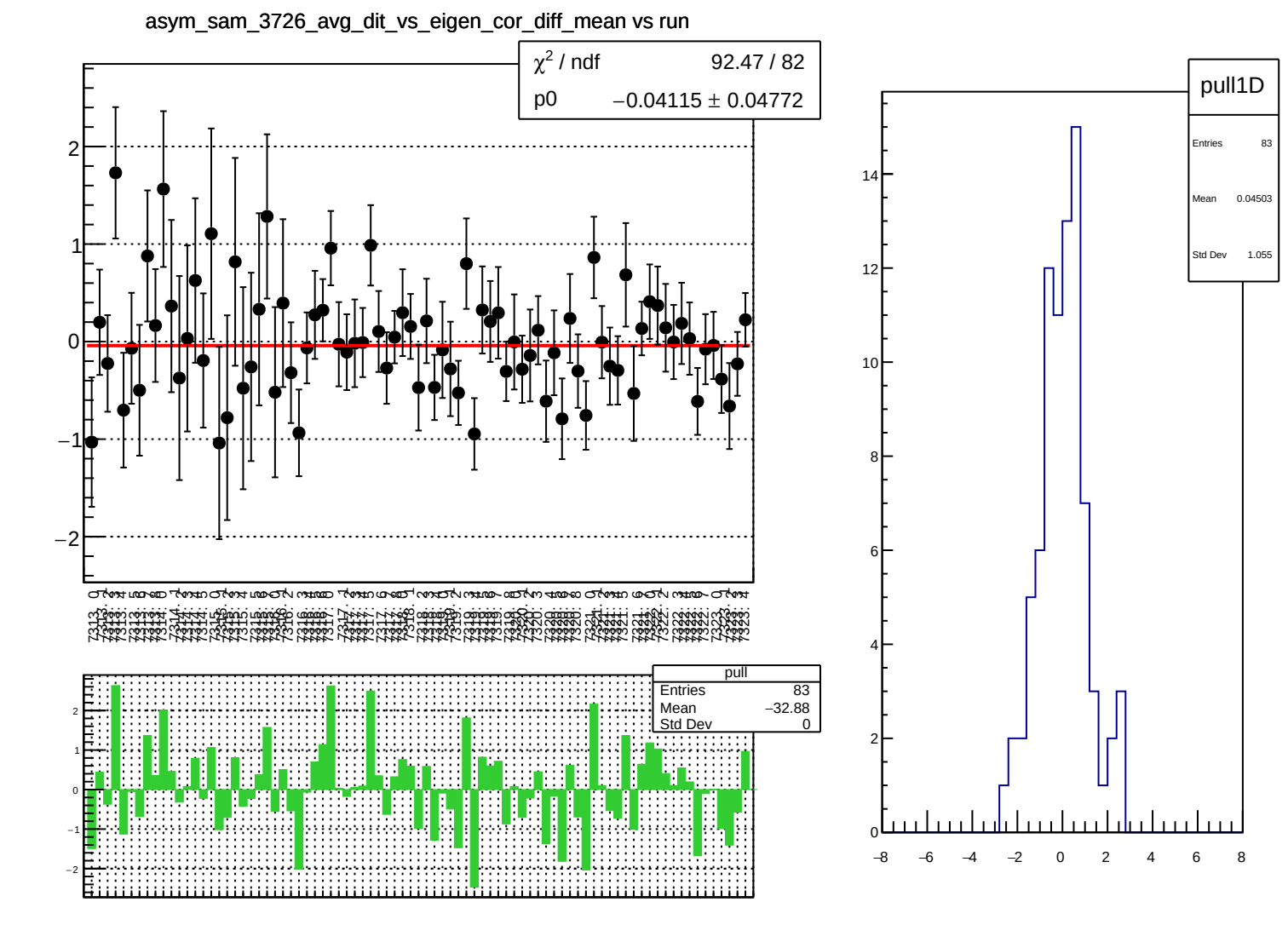

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 73.85 / 82
p0 1.484e−15 ± 1.676e−14
pull
Entries 83
Mean −27.84
Std Dev 0

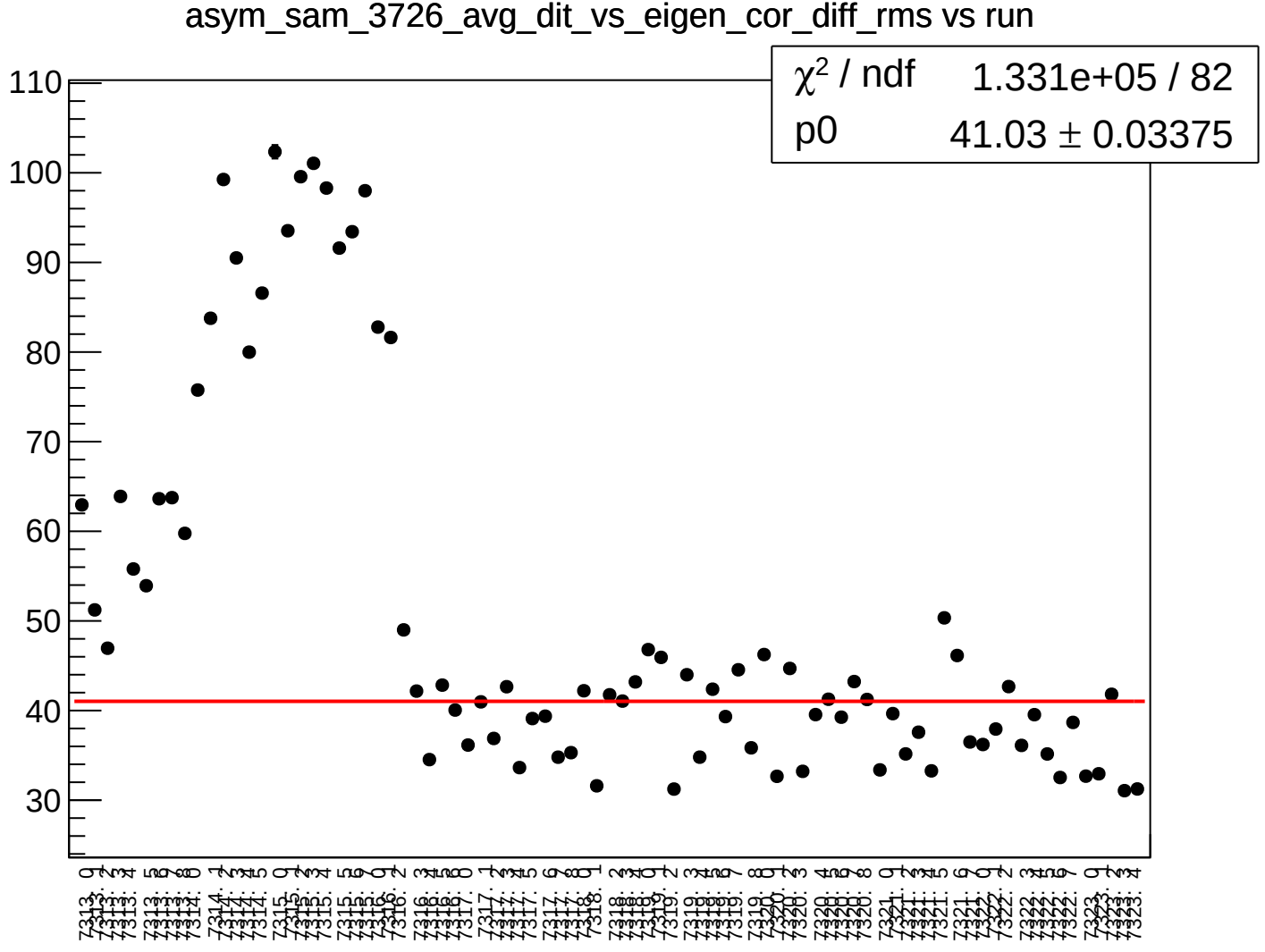

pull1D
Entries 83
Mean 0.03365
Std Dev 0.9427

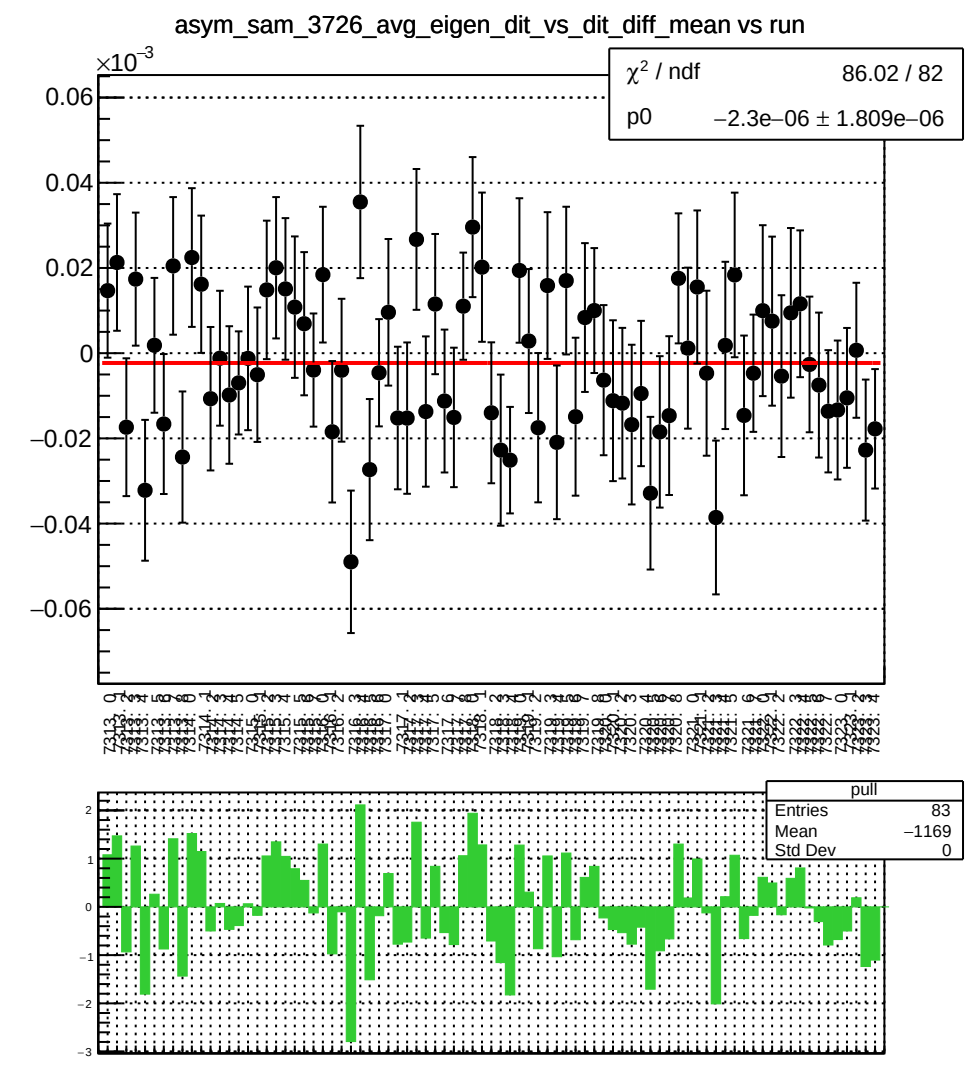

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.279e+06 / 82
p0 6.835e−12 ± 1.185e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

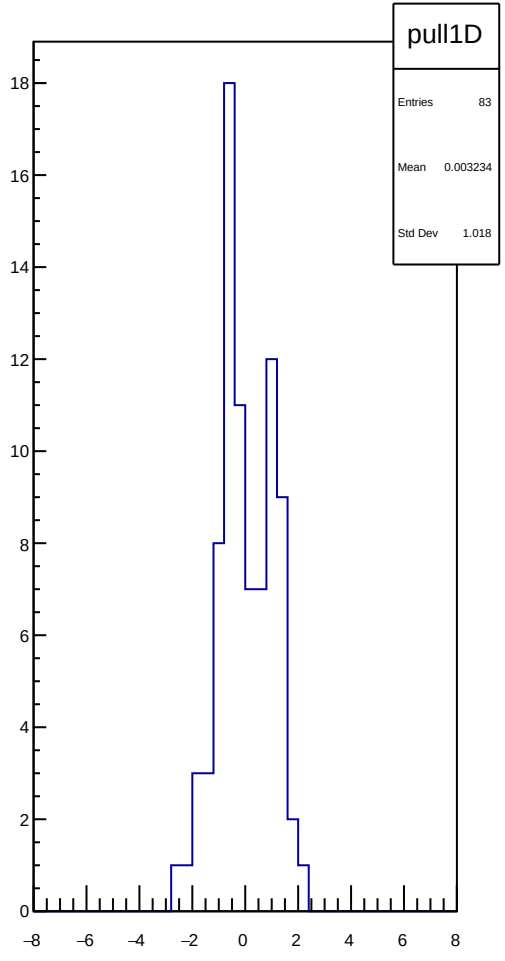

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.47 / 82
p0 −0.04115 ± 0.04772
pull
Entries 83
Mean −32.88
Std Dev 0
pull1D
Entries 83
Mean 0.04503
Std Dev 1.055

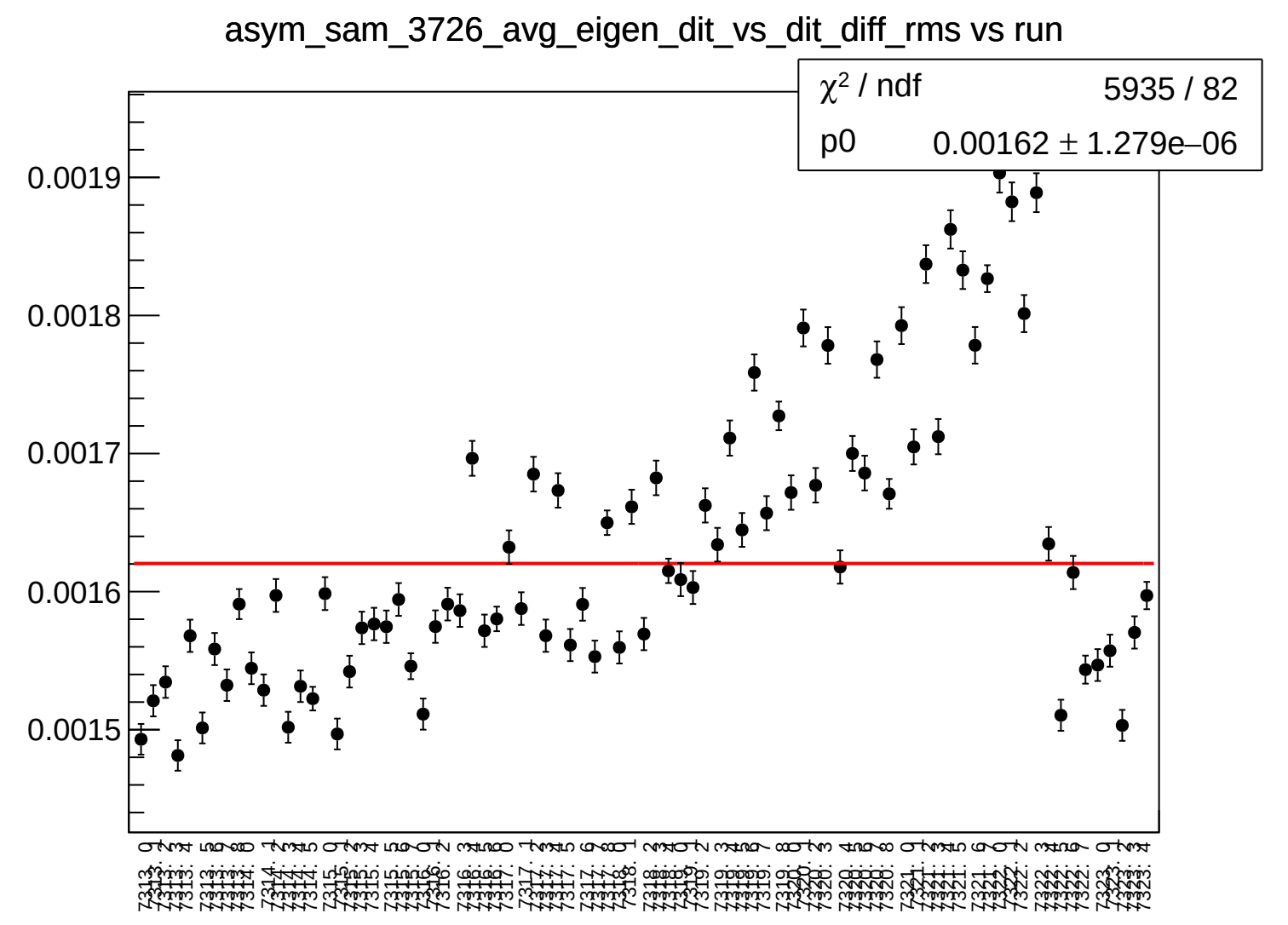

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.331e+05 / 82
p0 41.03 ± 0.03375
110
100
90
80
70
60
50
40
30

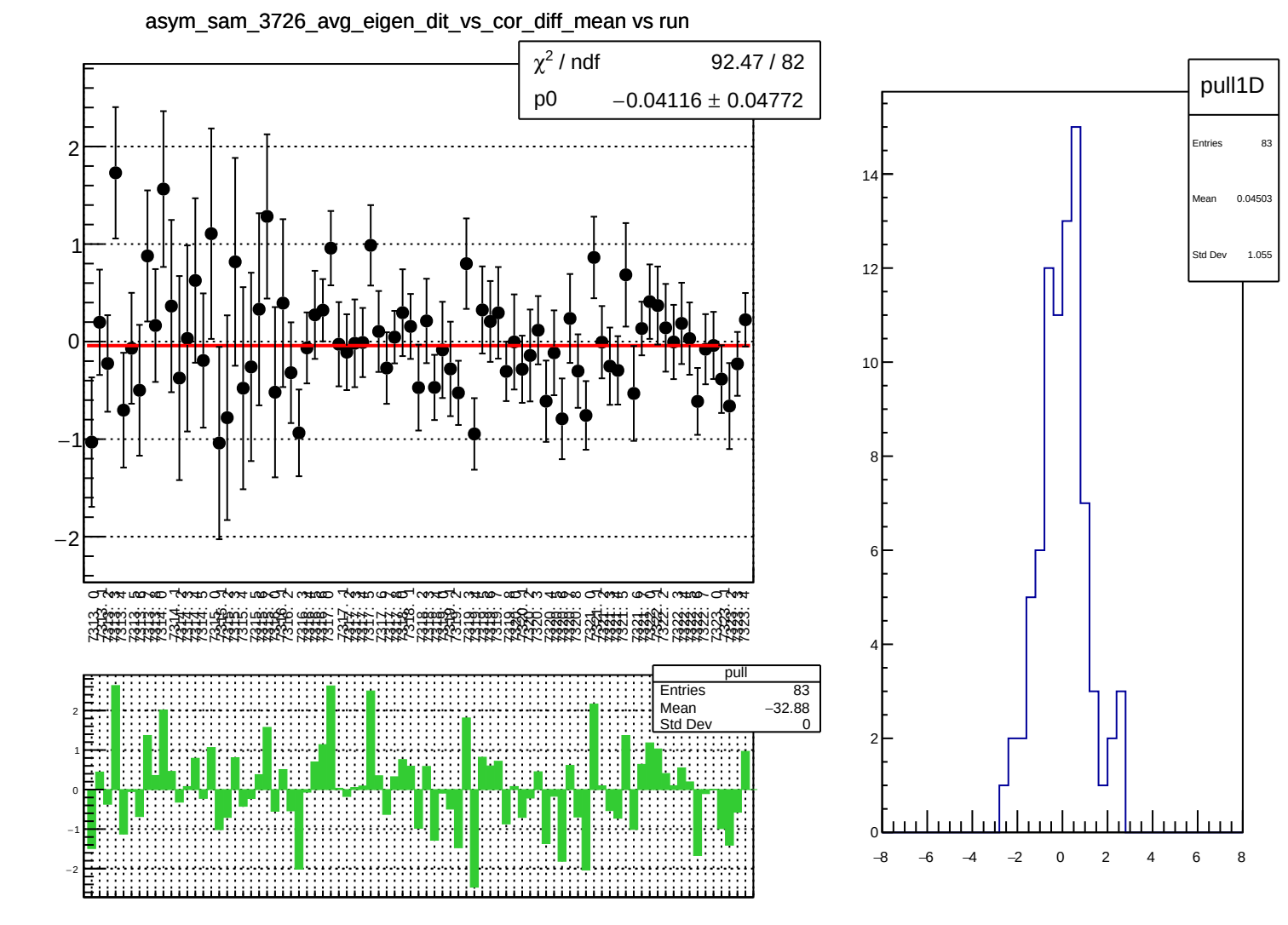

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.47 / 82
p0 −0.04115 ± 0.04772
pull
Entries 83
Mean −32.88
Std Dev 0
pull1D
Entries 83
Mean 0.04503
Std Dev 1.055

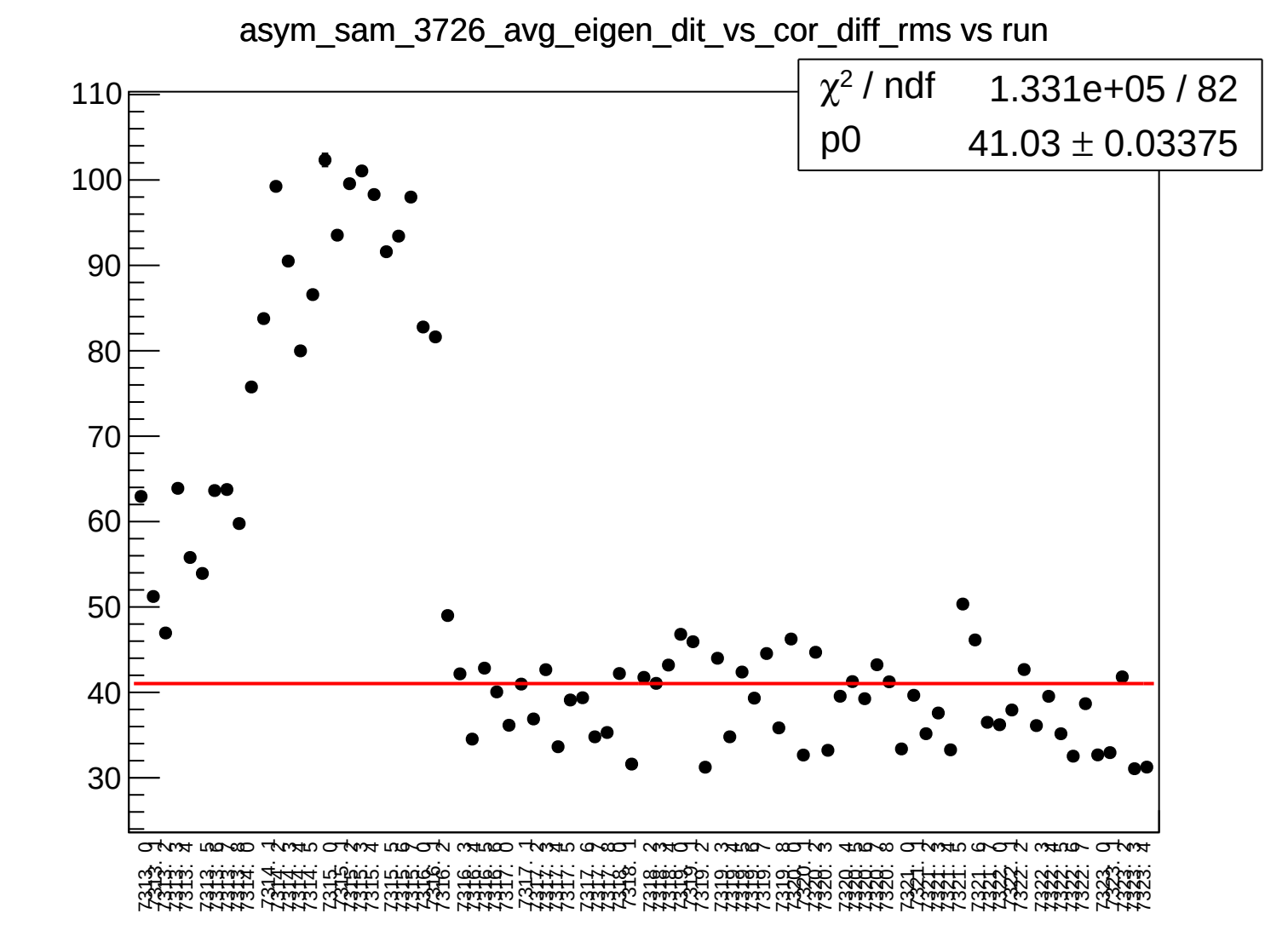

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.331e+05 / 82
p0 41.03 ± 0.03375
110
100
90
80
70
60
50
40
30

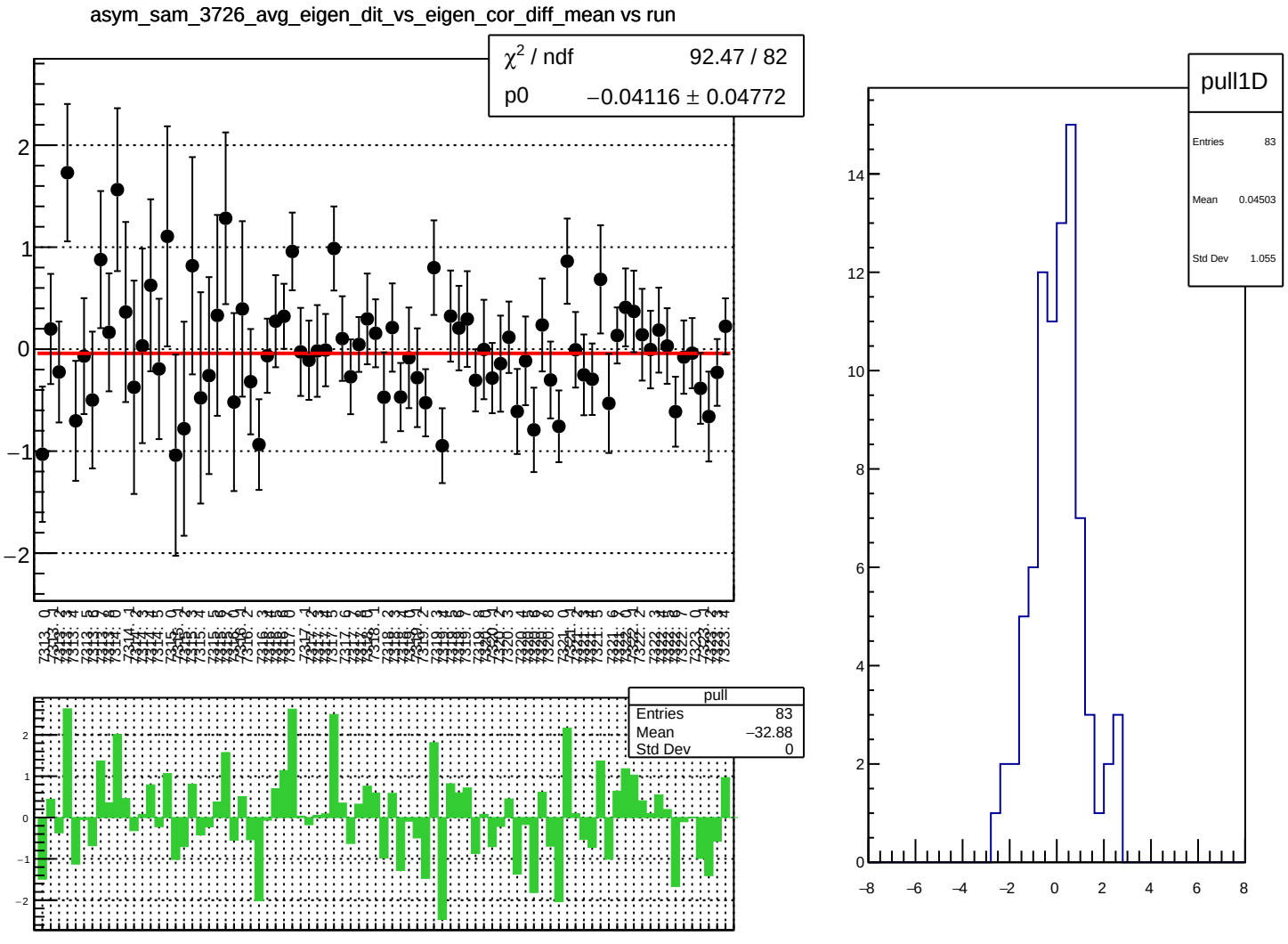

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 86.02 / 82
p0 −2.3e−06 ± 1.809e−06
pull
Entries 83
Mean −1169
Std Dev 0

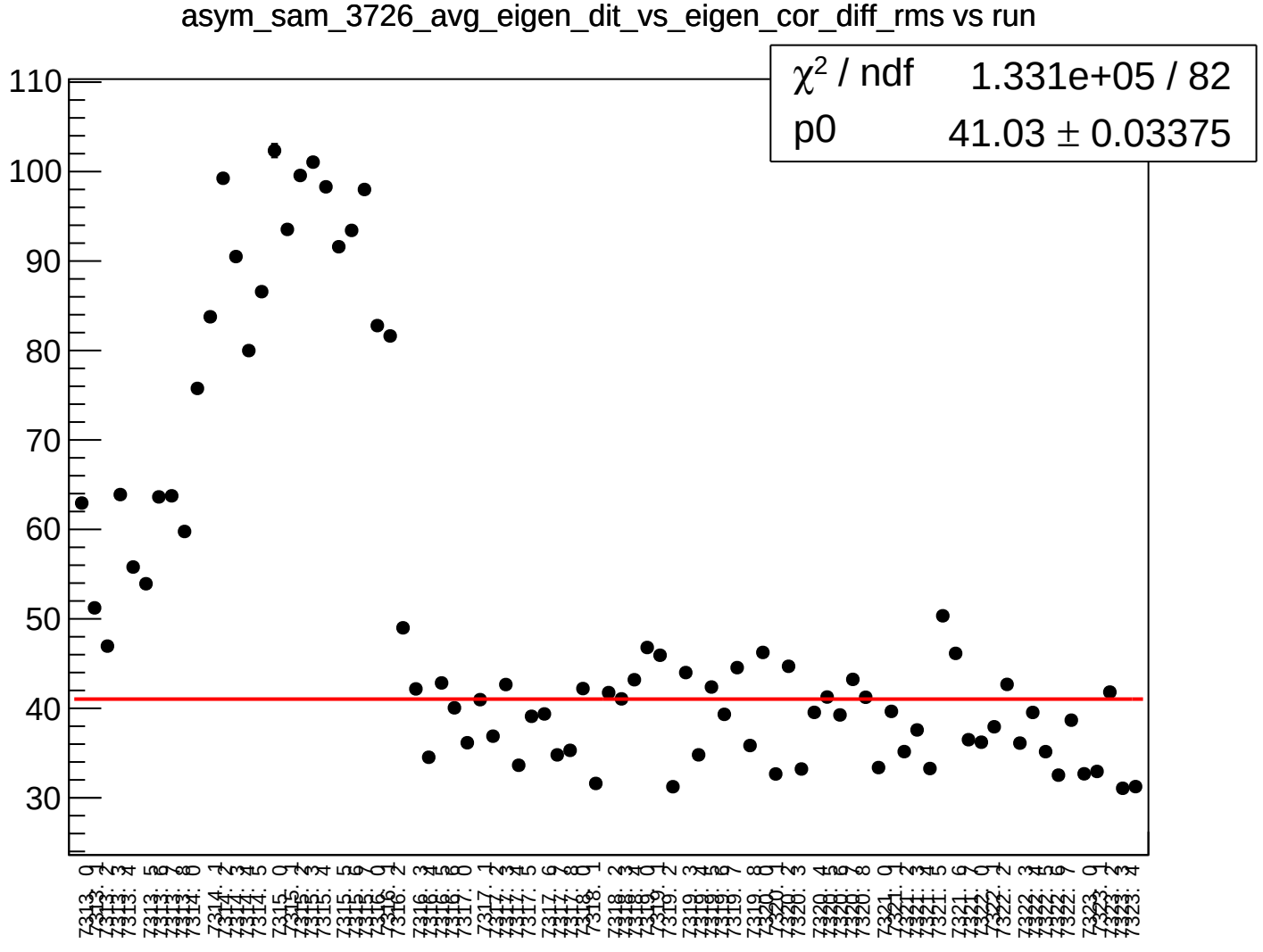

pull1D
Entries 83
Mean 0.003234
Std Dev 1.018

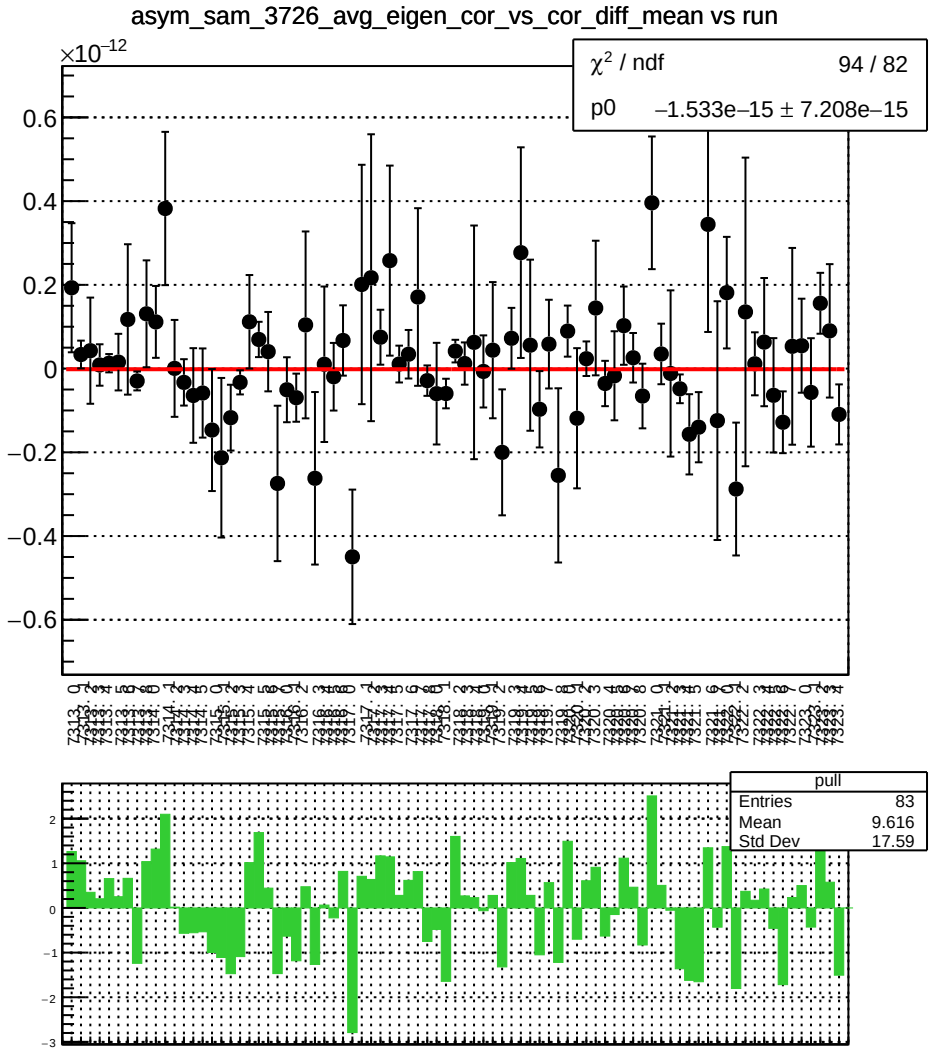

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5935 / 82
p0 0.00162 ± 1.279e–06
0.0019
0.0018
0.0017
0.0016
0.0015

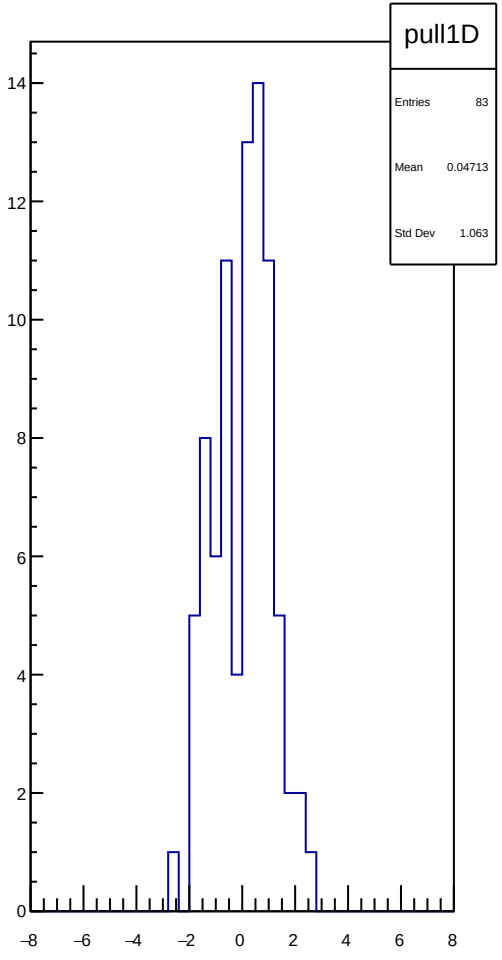

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.47 / 82
p0 −0.04116 ± 0.04772
pull
Entries 83
Mean −32.88
Std Dev 0
pull1D
Entries 83
Mean 0.04503
Std Dev 1.055

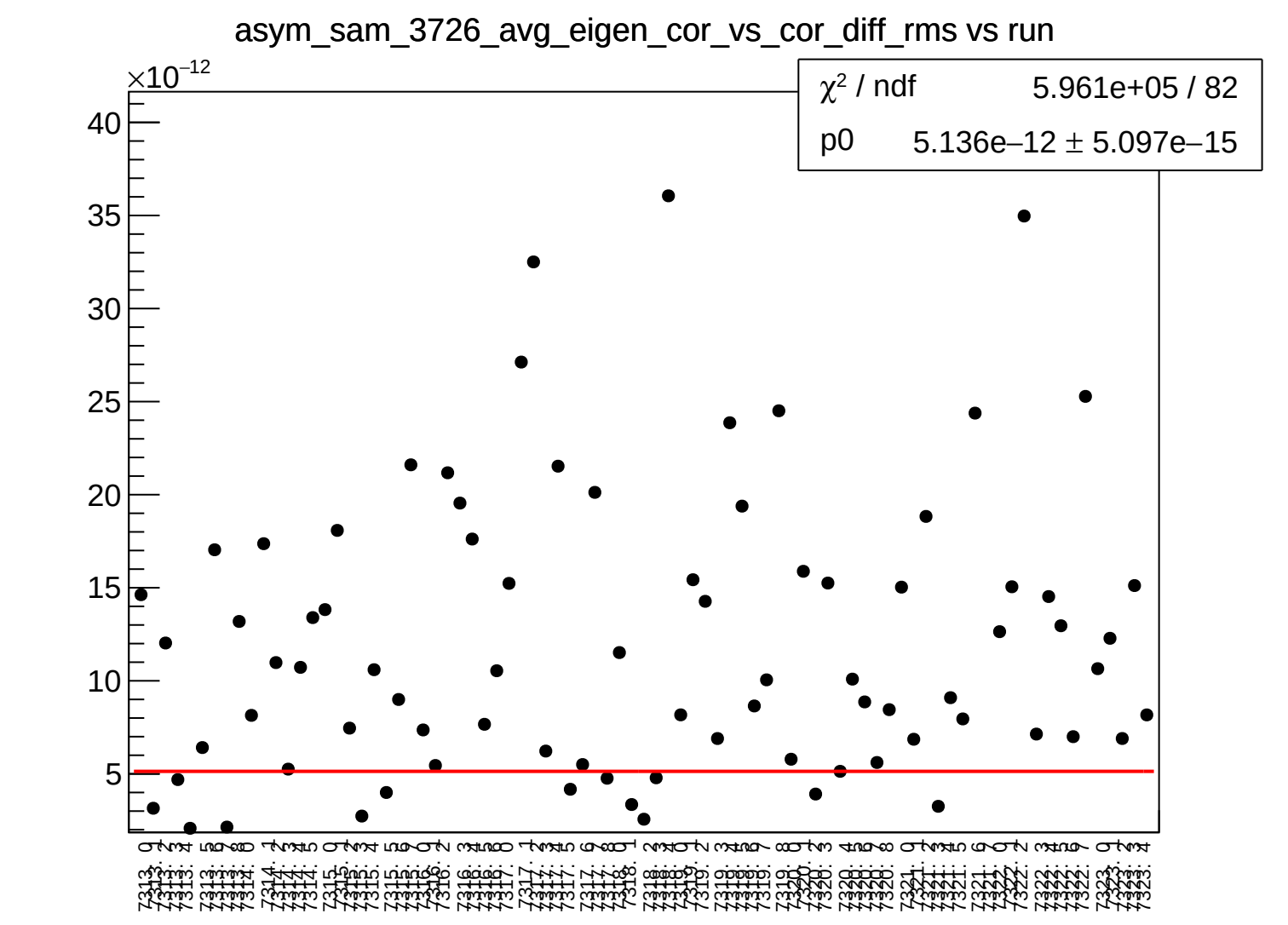

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 82
p0 41.03 ± 0.03375
110
100
90
80
70
60
50
40
30

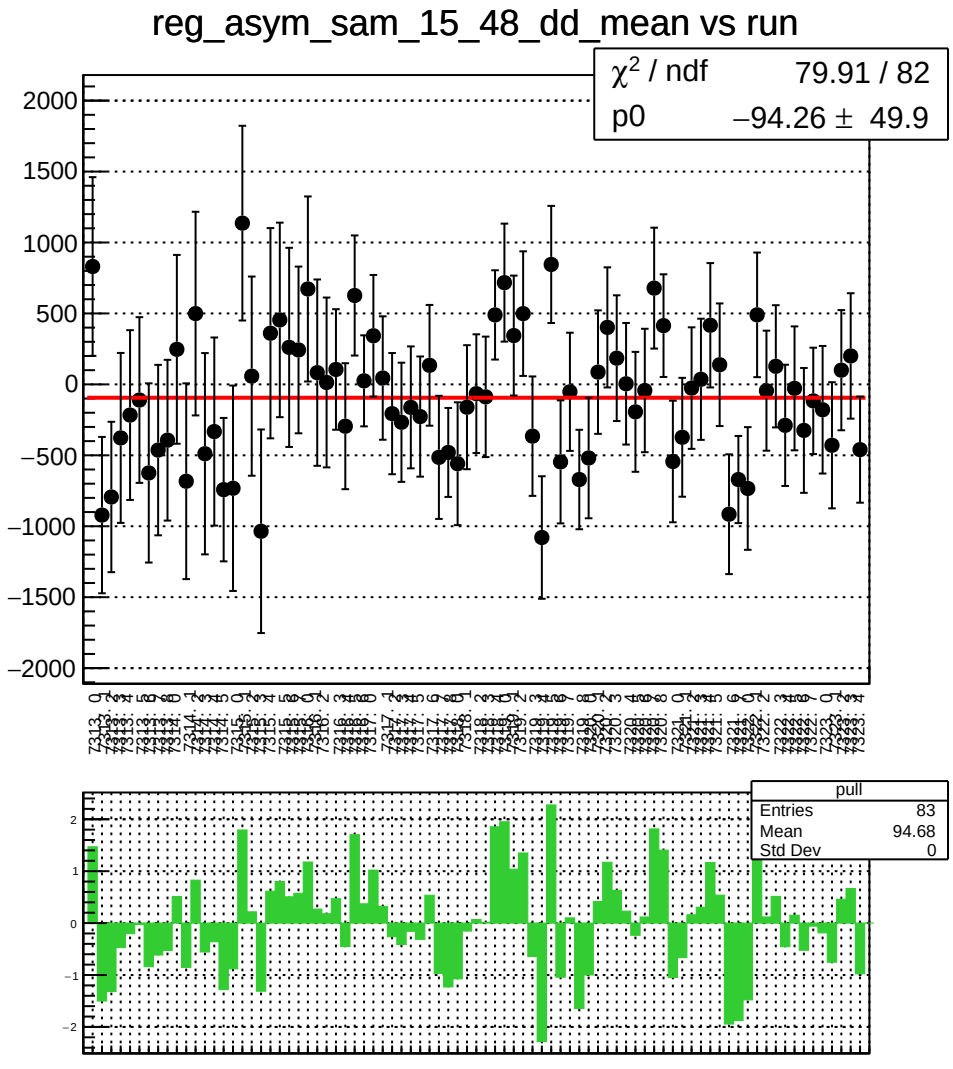

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.47 / 82
p0 −0.04116 ± 0.04772
pull
Entries 83
Mean −32.88
Std Dev 0
pull1D
Entries 83
Mean 0.04503
Std Dev 1.055

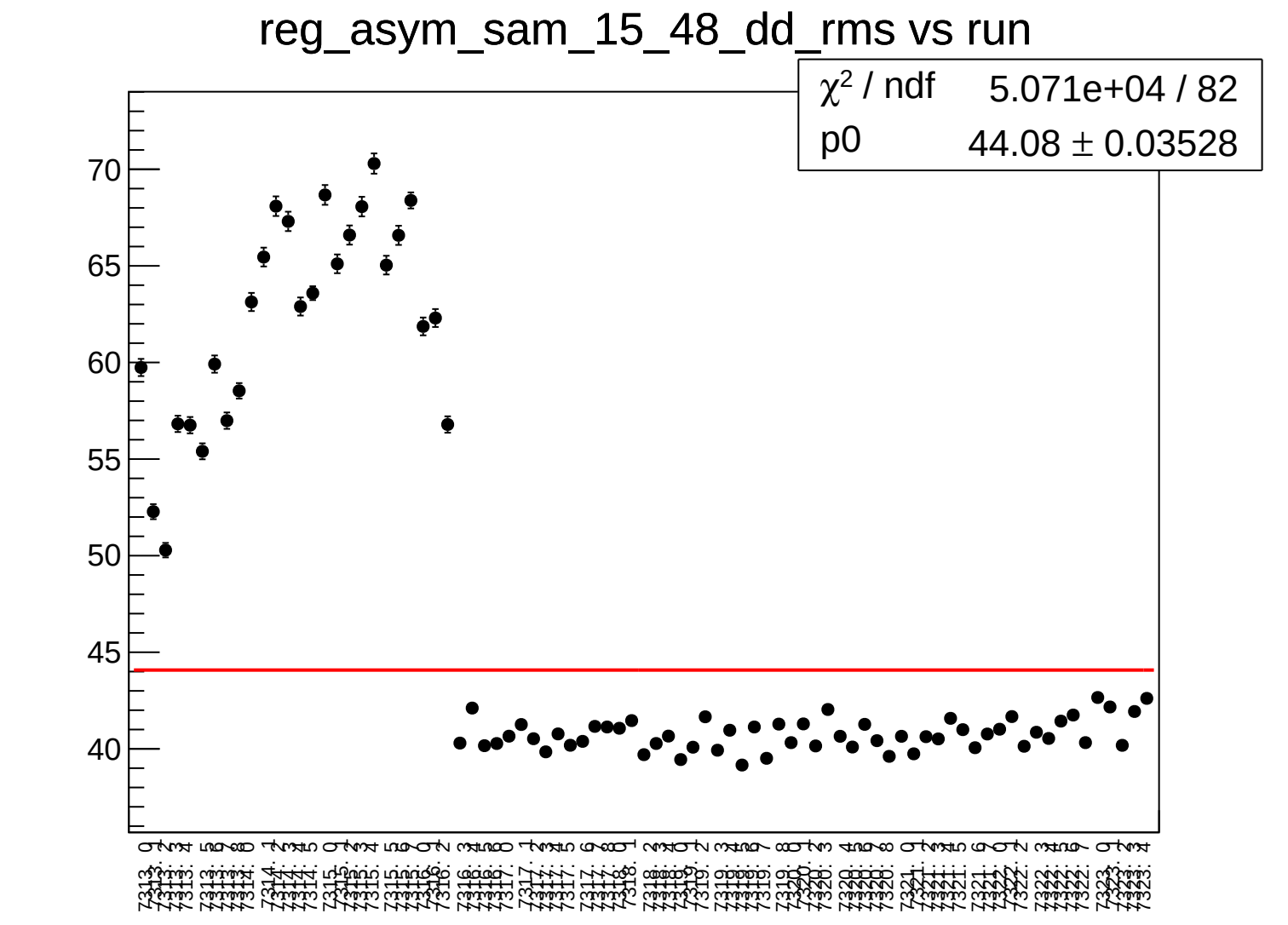

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 82
p0 41.03 ± 0.03375
110
100
90
80
70
60
50
40
30

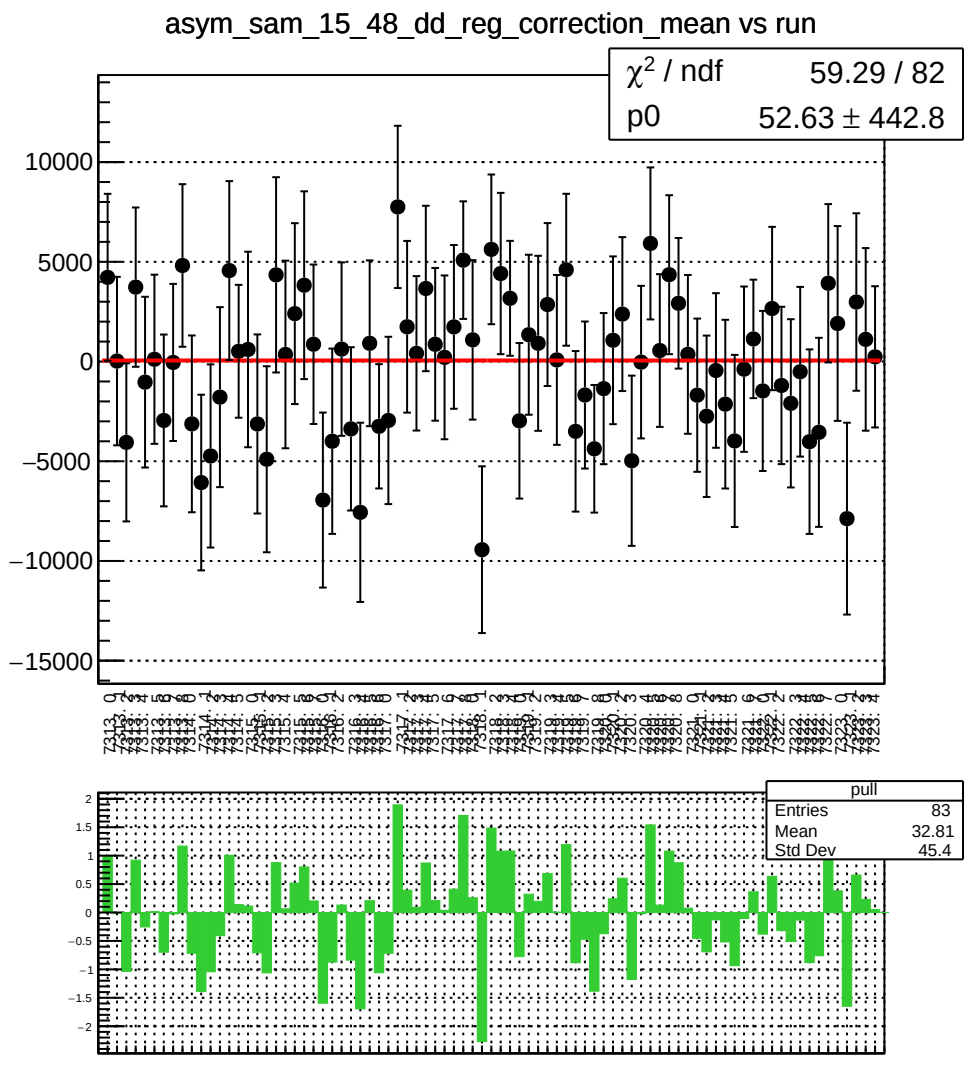

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94 / 82
p0 −1.533e−15 ± 7.208e−15
pull
Entries 83
Mean 9.616
Std Dev 17.59

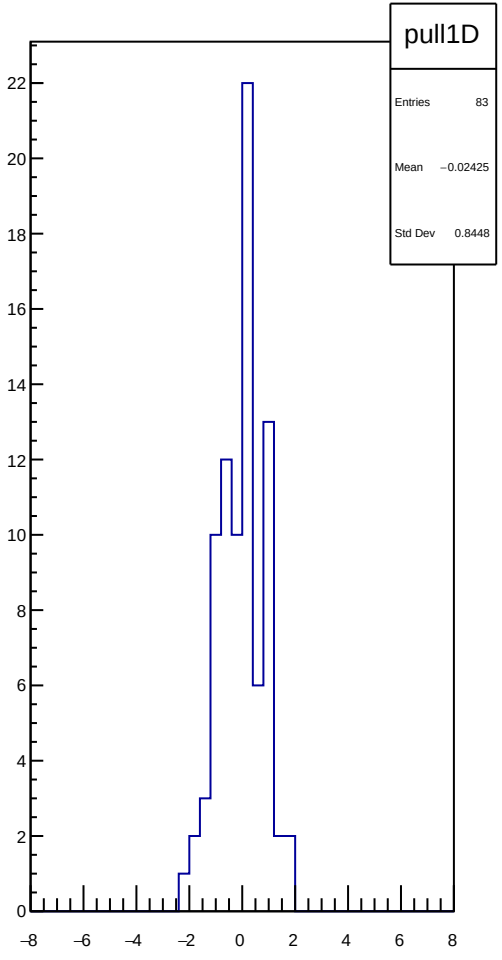

pull1D
Entries 83
Mean 0.04713
Std Dev 1.063

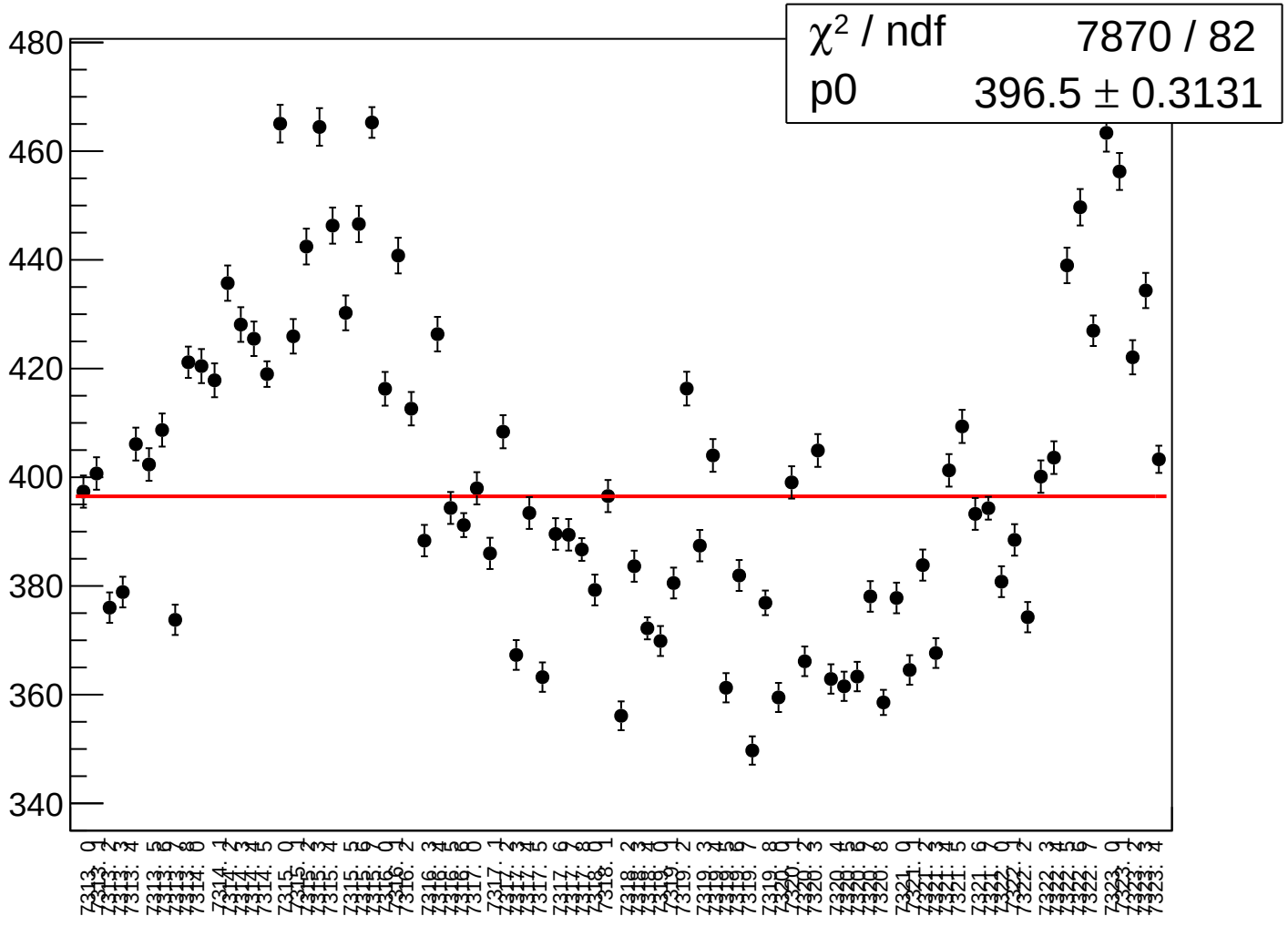

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.961e+05 / 82
p0 5.136e−12 ± 5.097e−15
40
35
30
25
20
15
10
5

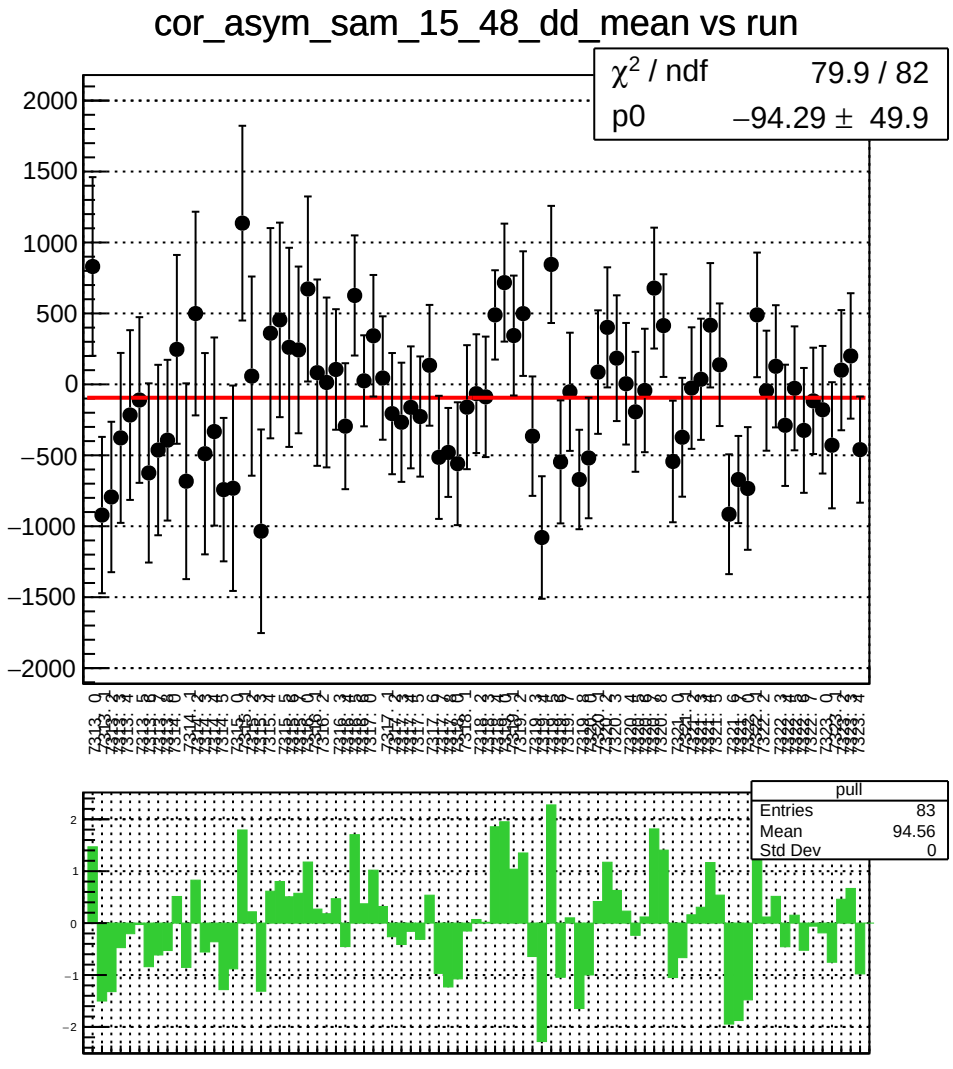

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.91 / 82
p0 −94.26 ± 49.9
pull
Entries 83
Mean 94.68
Std Dev 0
pull1D
Entries 83
Mean 0.007438
Std Dev 0.9812

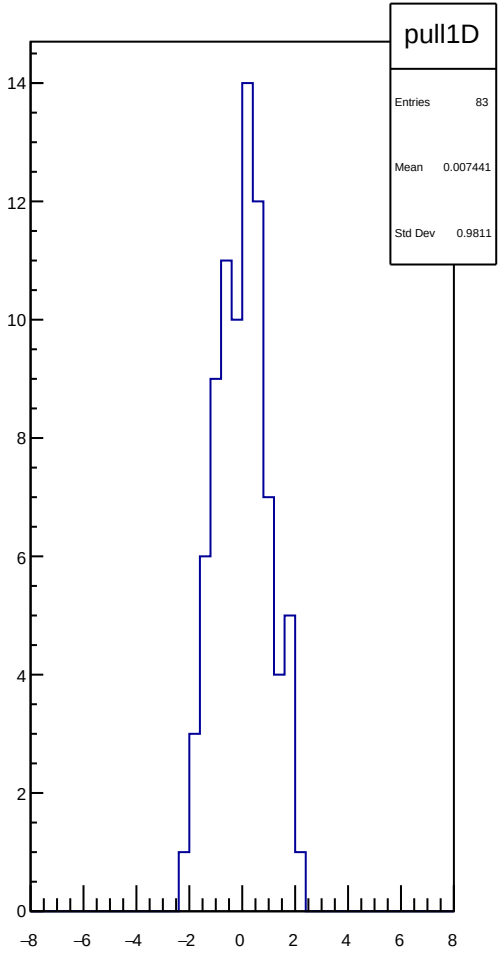

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5.071e+04 / 82
p0 44.08 ± 0.03528
70
65
60
55
50
45
40

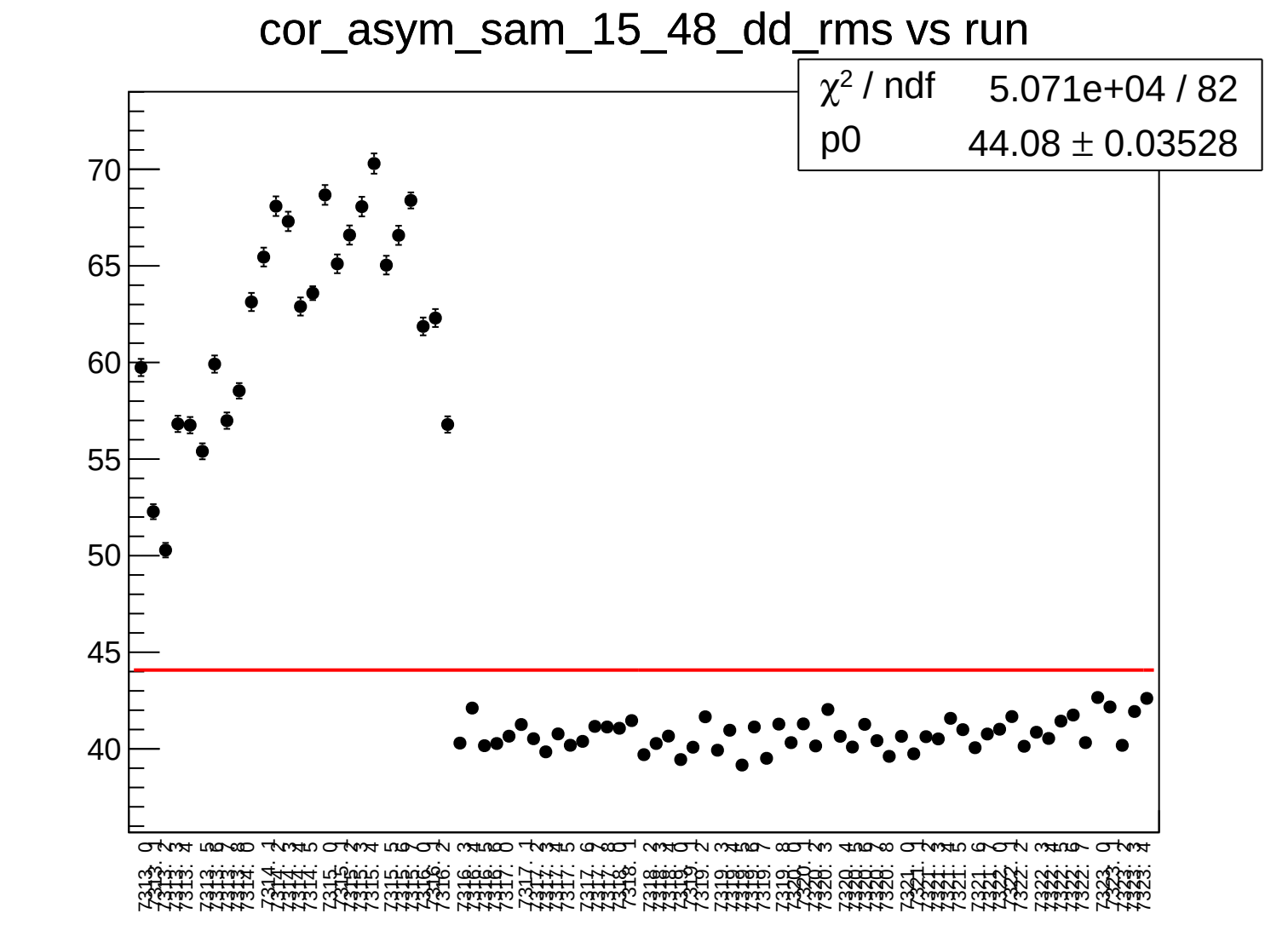

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 59.29 / 82
p0 52.63 ± 442.8
pull
Entries 83
Mean 32.81
Std Dev 45.4

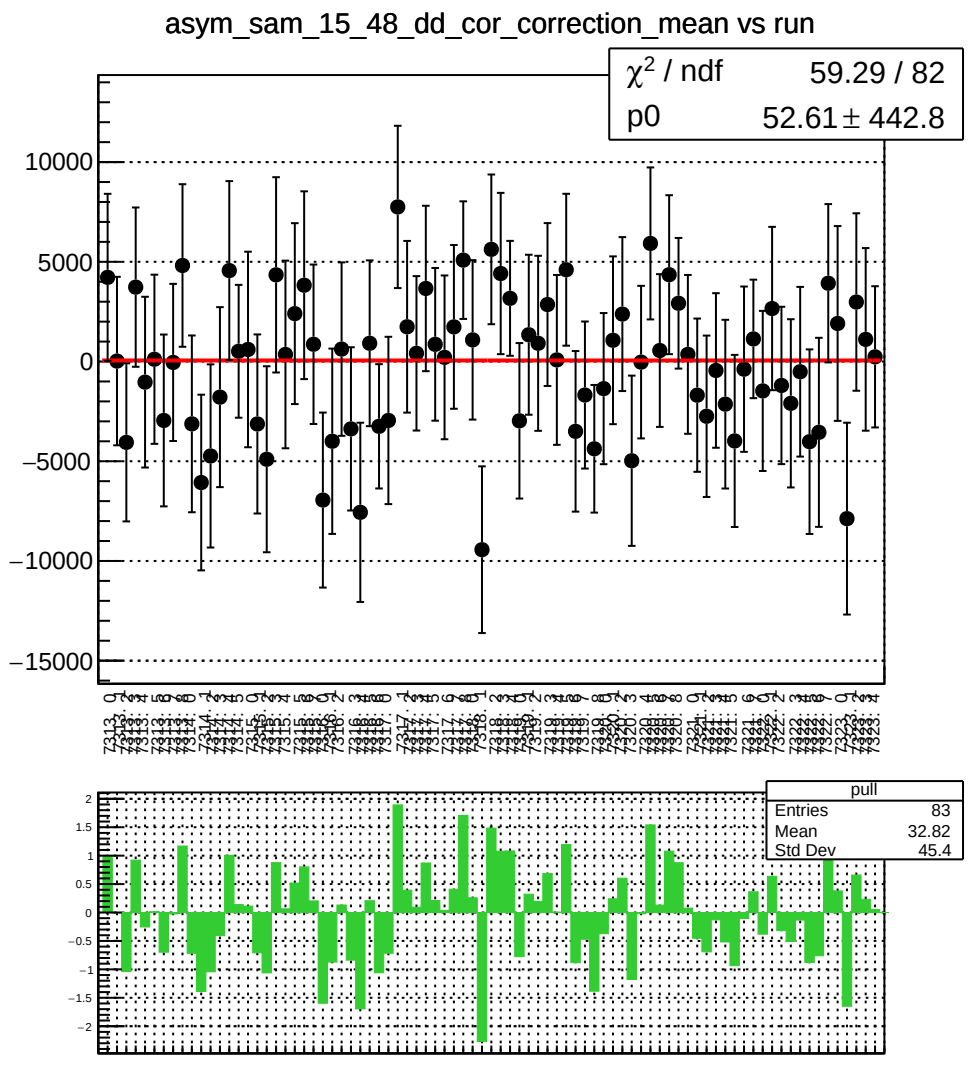

pull1D
Entries 83
Mean −0.02425
Std Dev 0.8448

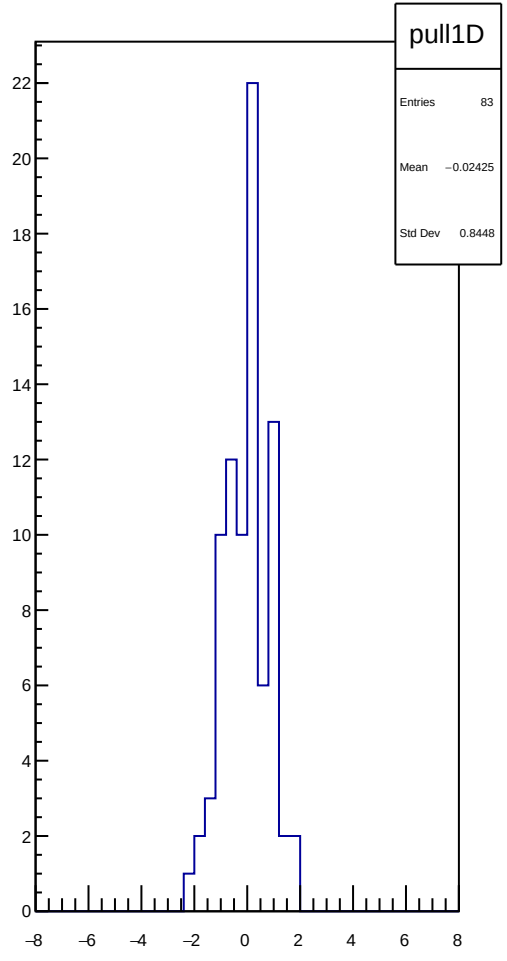

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 7870 / 82
p0 396.5 ± 0.3131
480
460
440
420
400
380
360
340

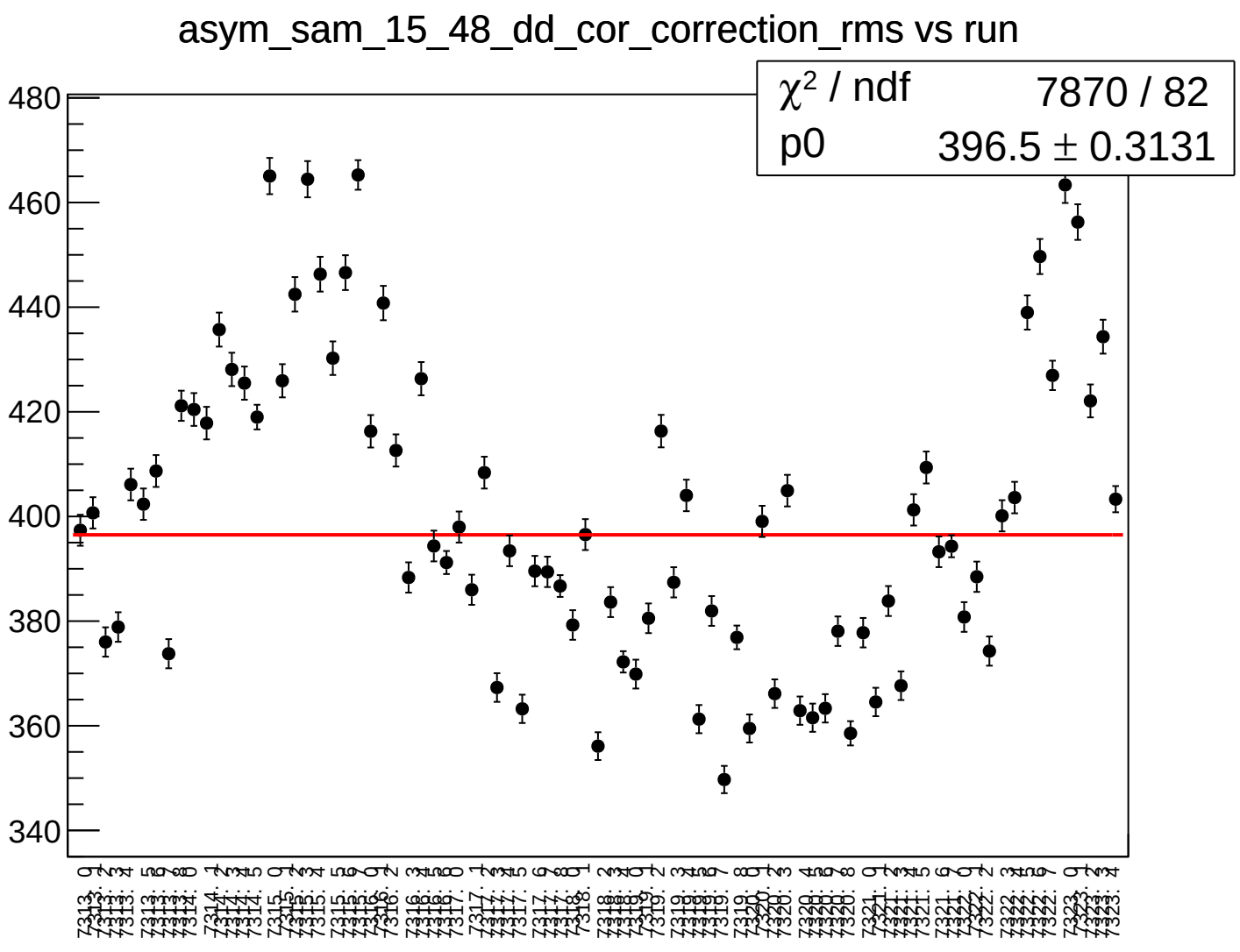

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.9 / 82
p0 −94.29 ± 49.9
pull
Entries 83
Mean 94.56
Std Dev 0

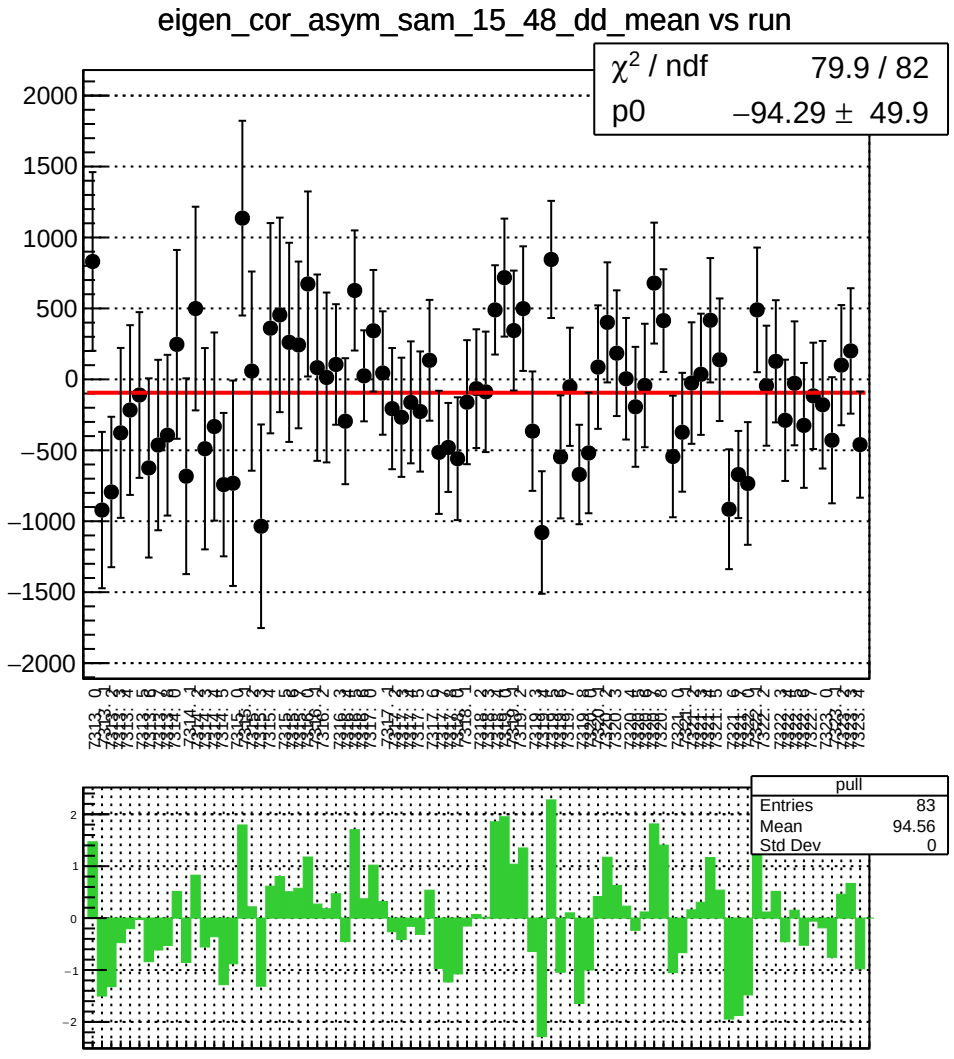

pull1D
Entries 83
Mean 0.007441
Std Dev 0.9811

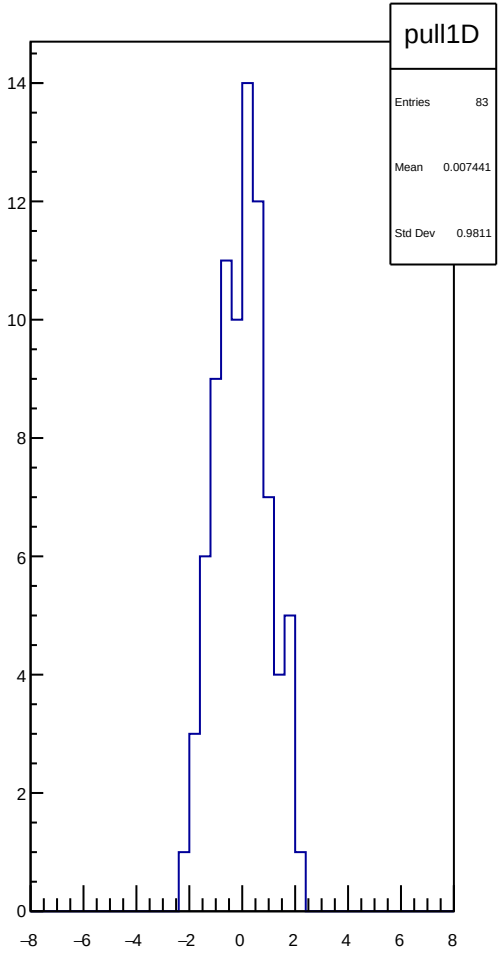

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5.071e+04 / 82
p0 44.08 ± 0.03528
70
65
60
55
50
45
40

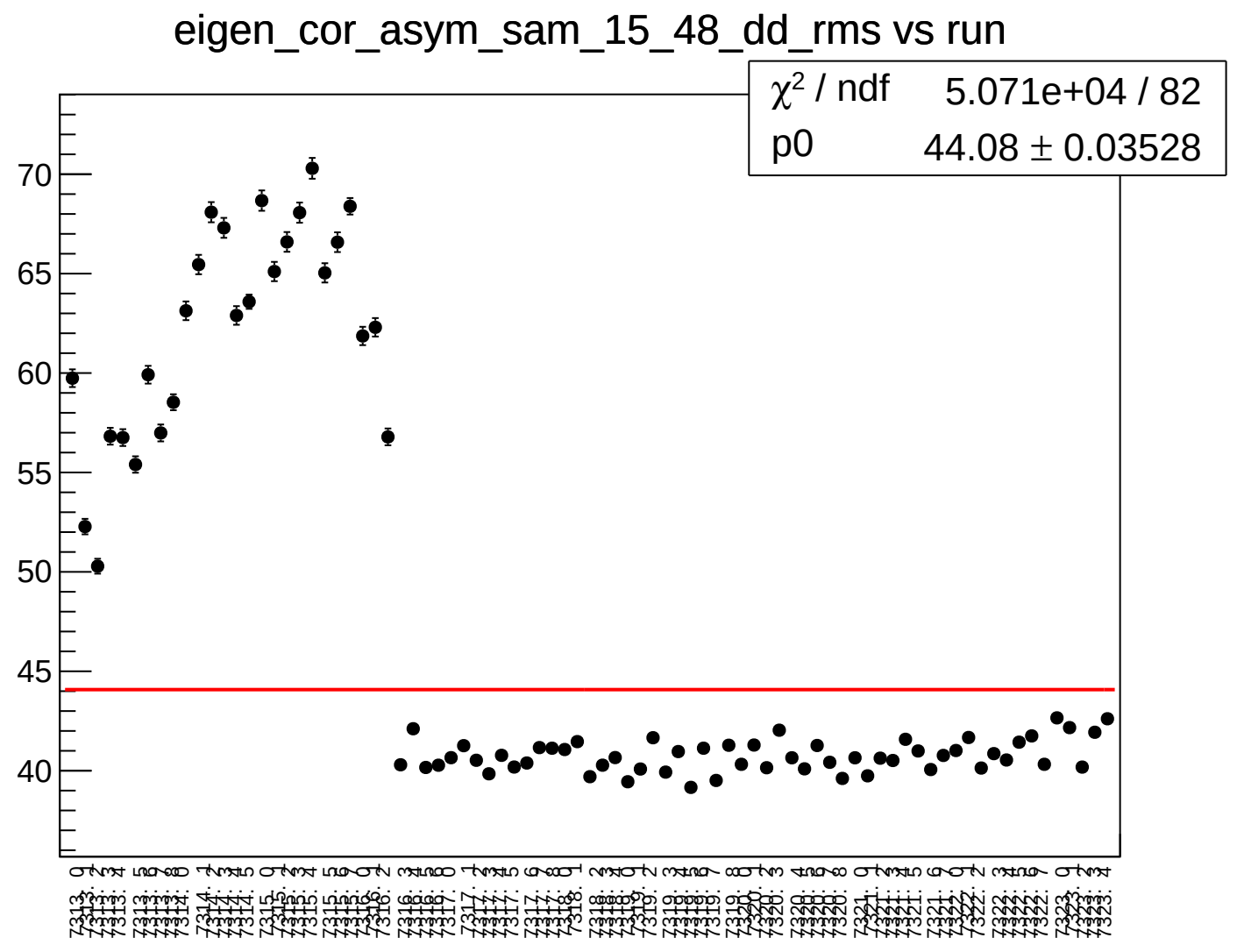

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 59.29 / 82
p0 52.61 ± 442.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 32.82
Std Dev 45.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

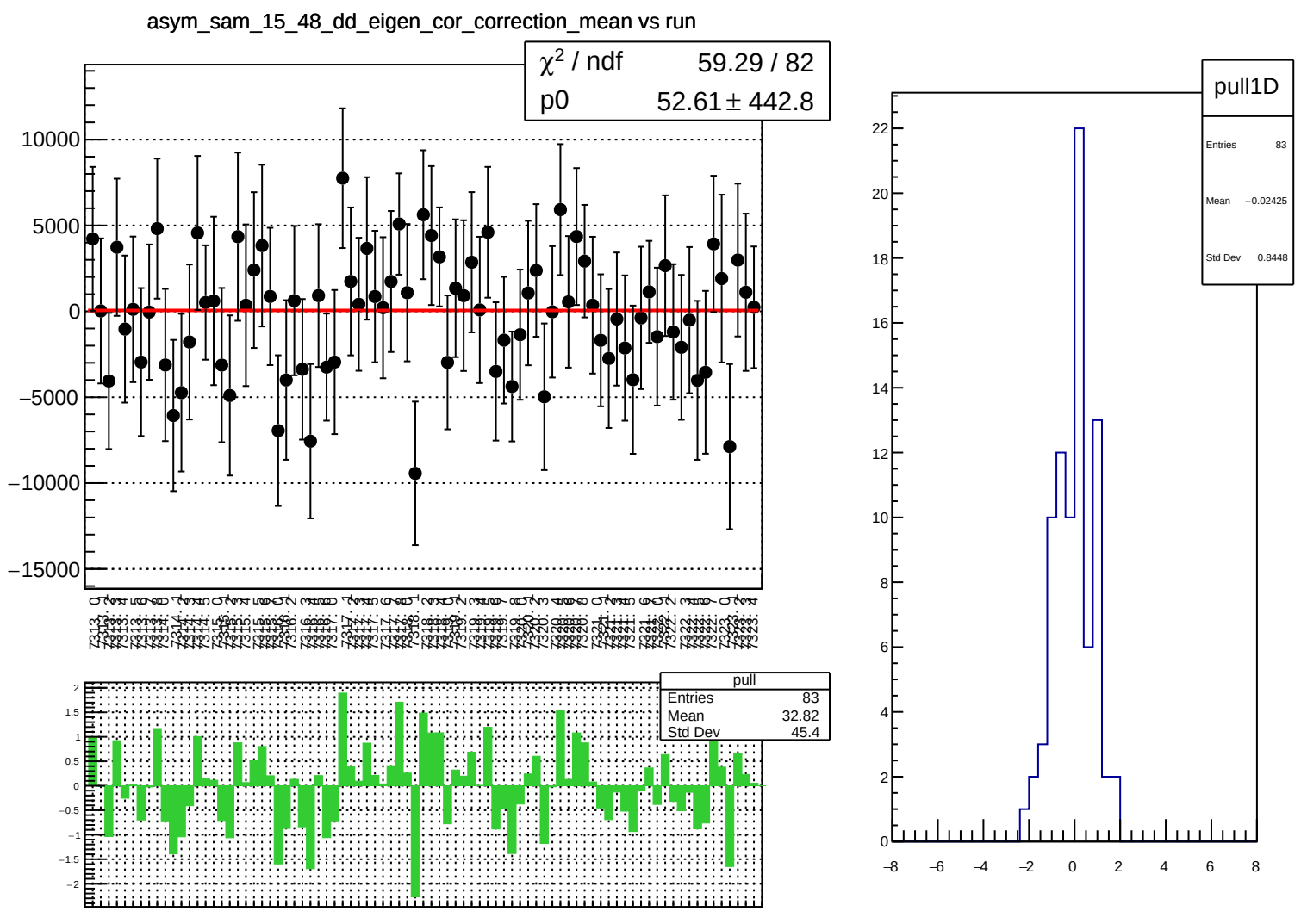

pull1D
Entries 83
Mean −0.02425
Std Dev 0.8448
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

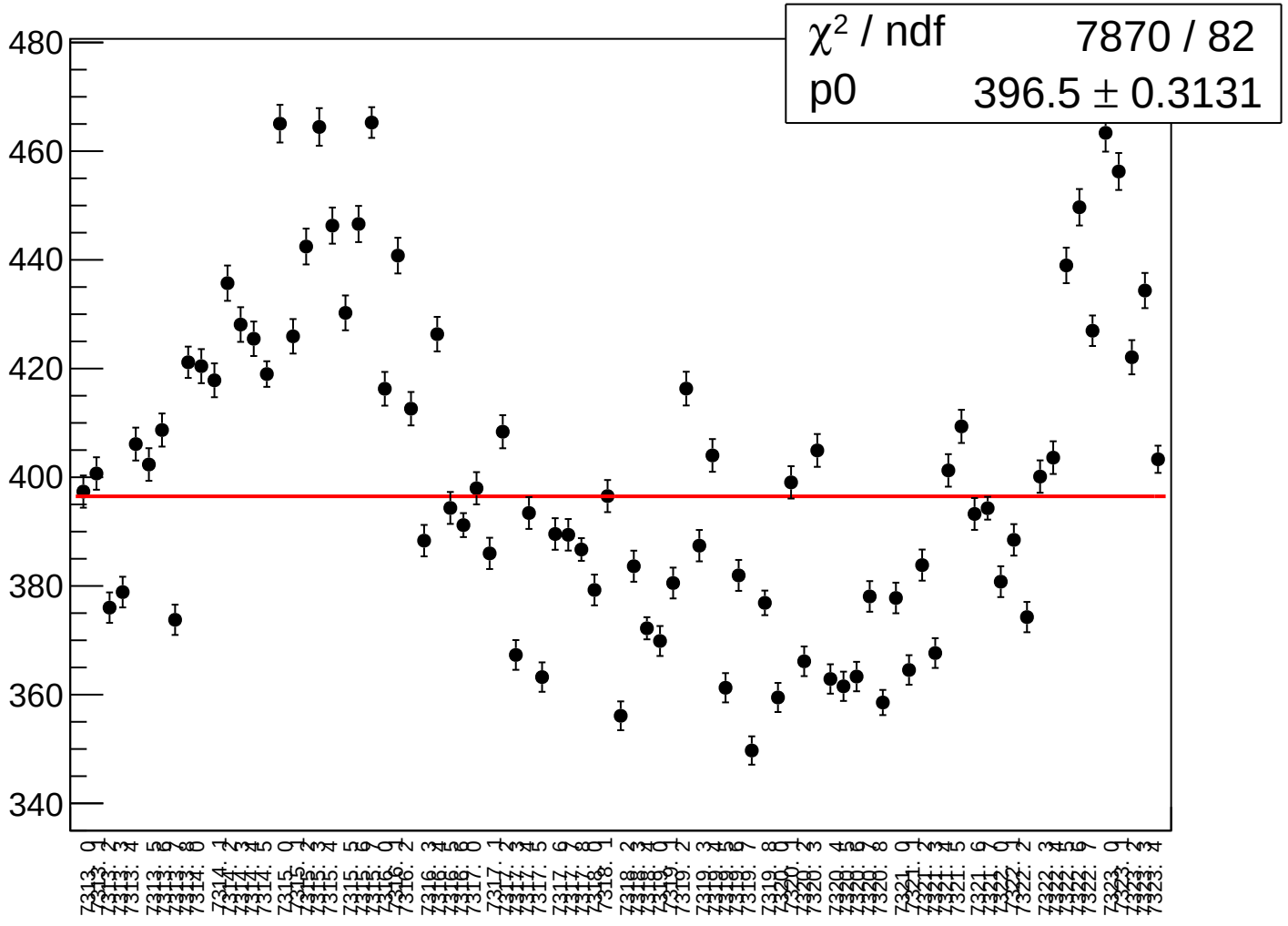

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 7870 / 82
p0 396.5 ± 0.3131
480
460
440
420
400
380
360
340

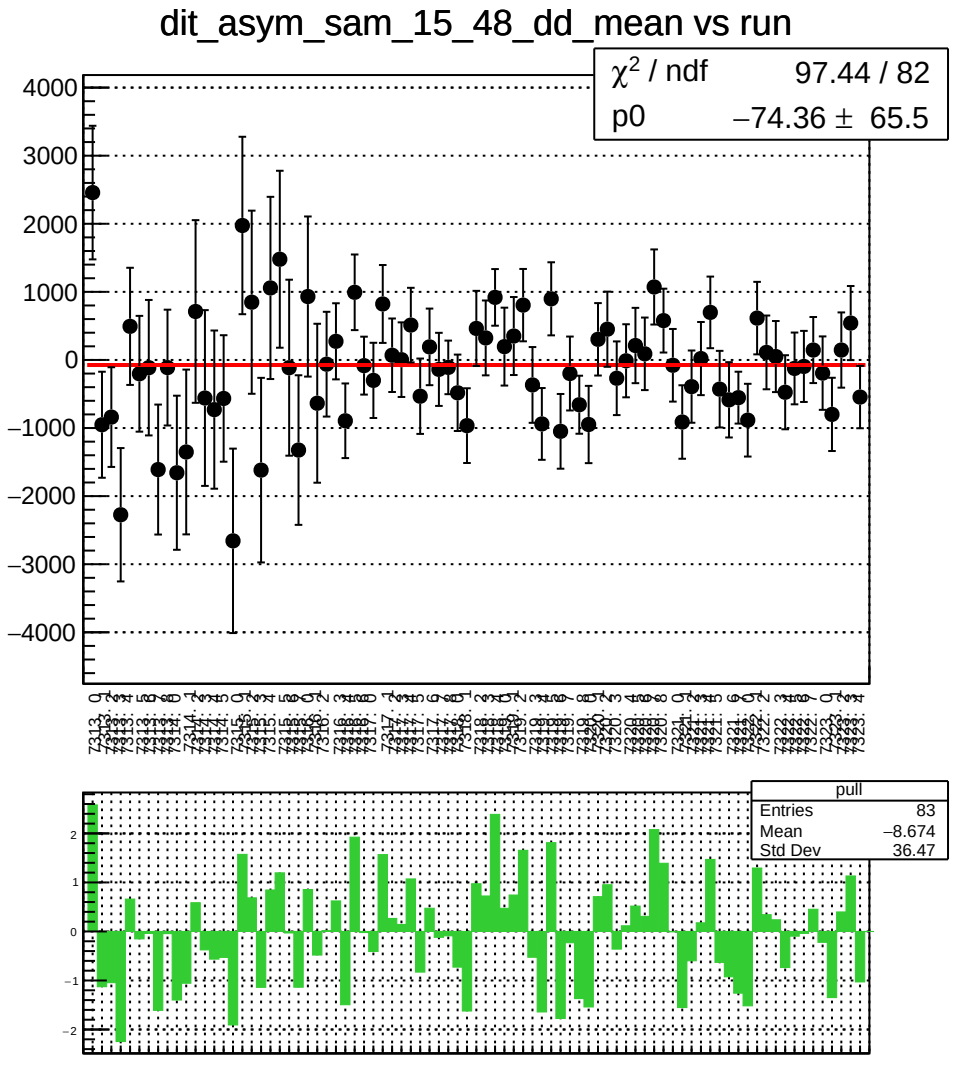

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.9 / 82
p0 −94.29 ± 49.9
pull
Entries 83
Mean 94.56
Std Dev 0

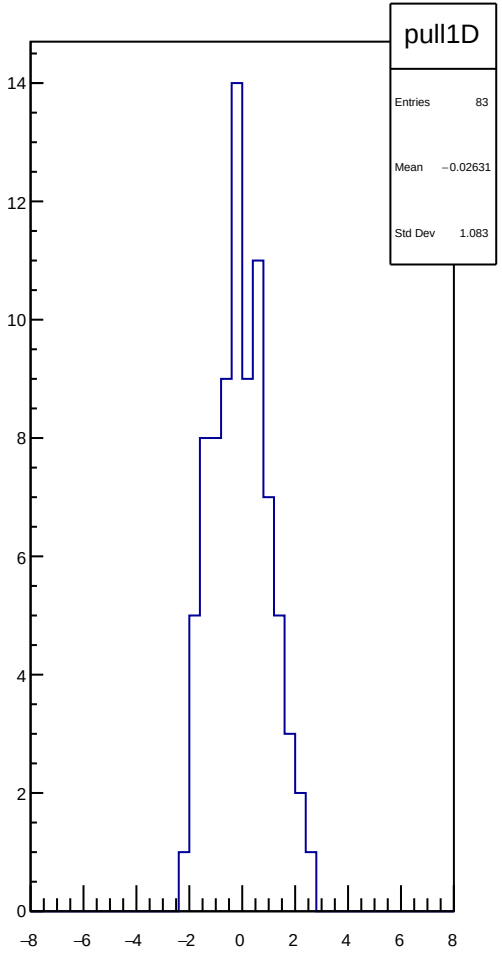

pull1D
Entries 83
Mean 0.007441
Std Dev 0.9811

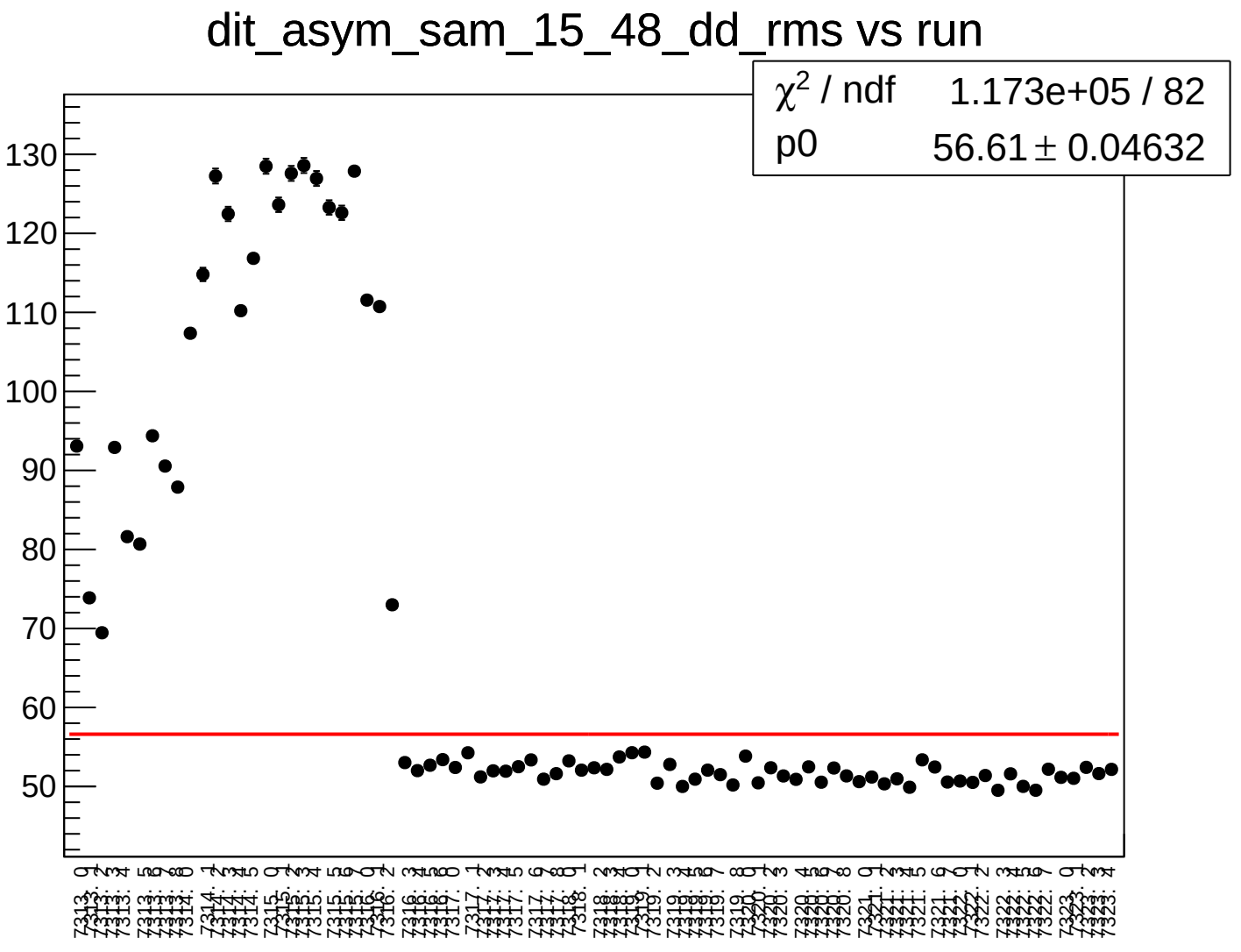

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 5.071e+04 / 82
p0 44.08 ± 0.03528
70
65
60
55
50
45
40

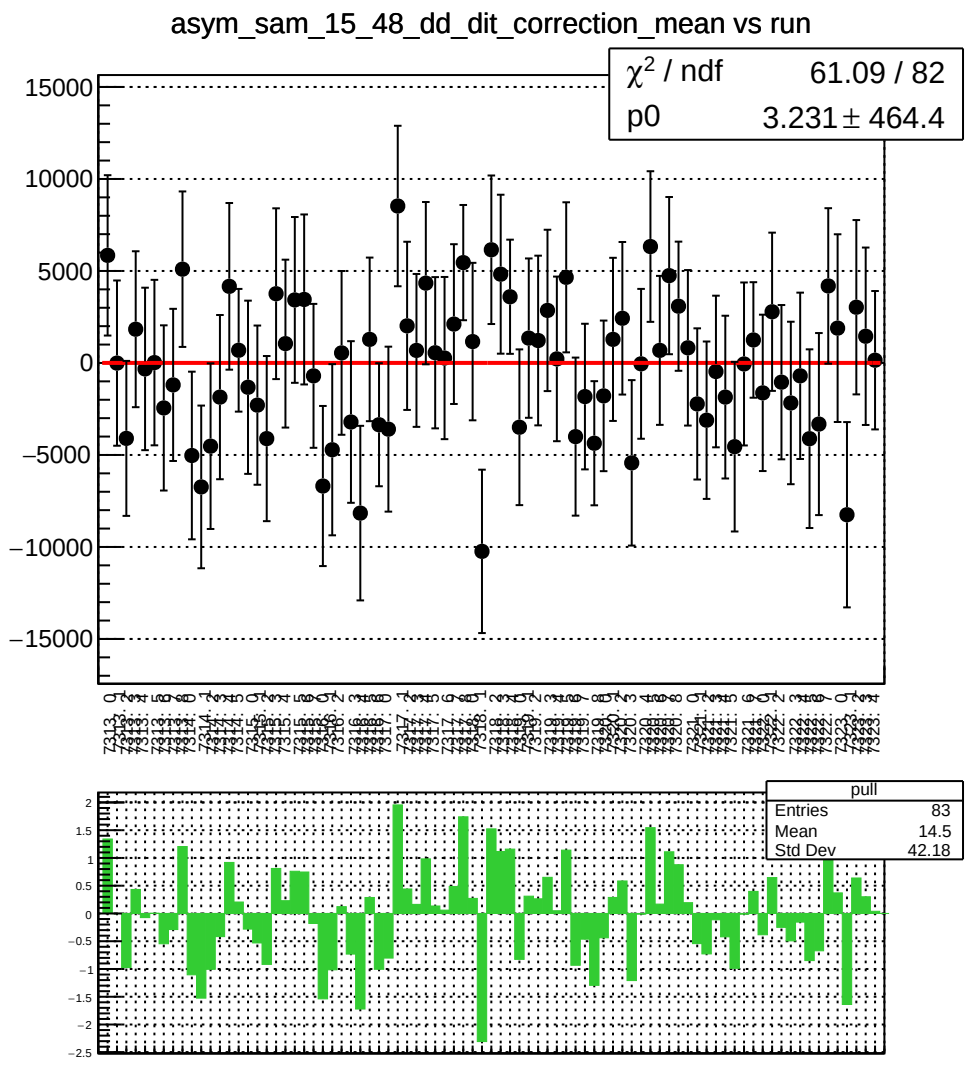

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 59.29 / 82
p0 52.61 ± 442.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 32.82
Std Dev 45.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean −0.02425
Std Dev 0.8448
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

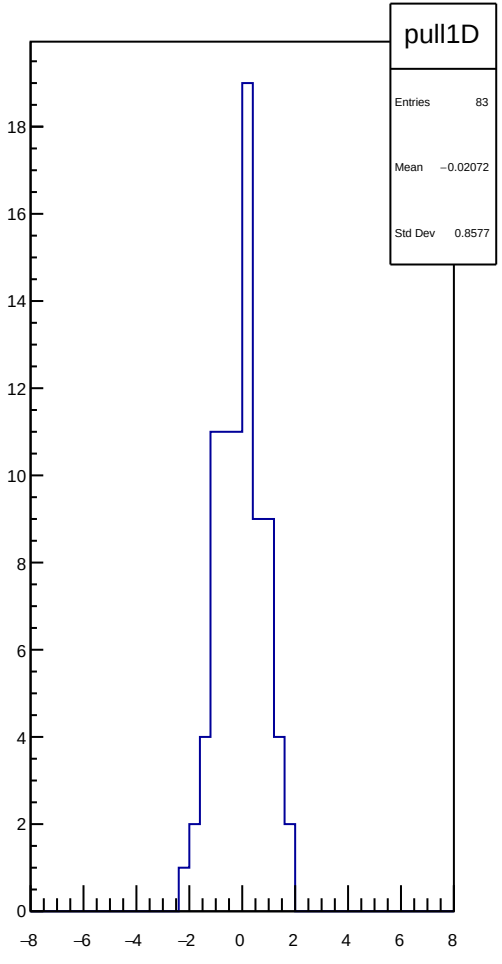

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7870 / 82
p0 396.5 ± 0.3131
480
460
440
420
400
380
360
340

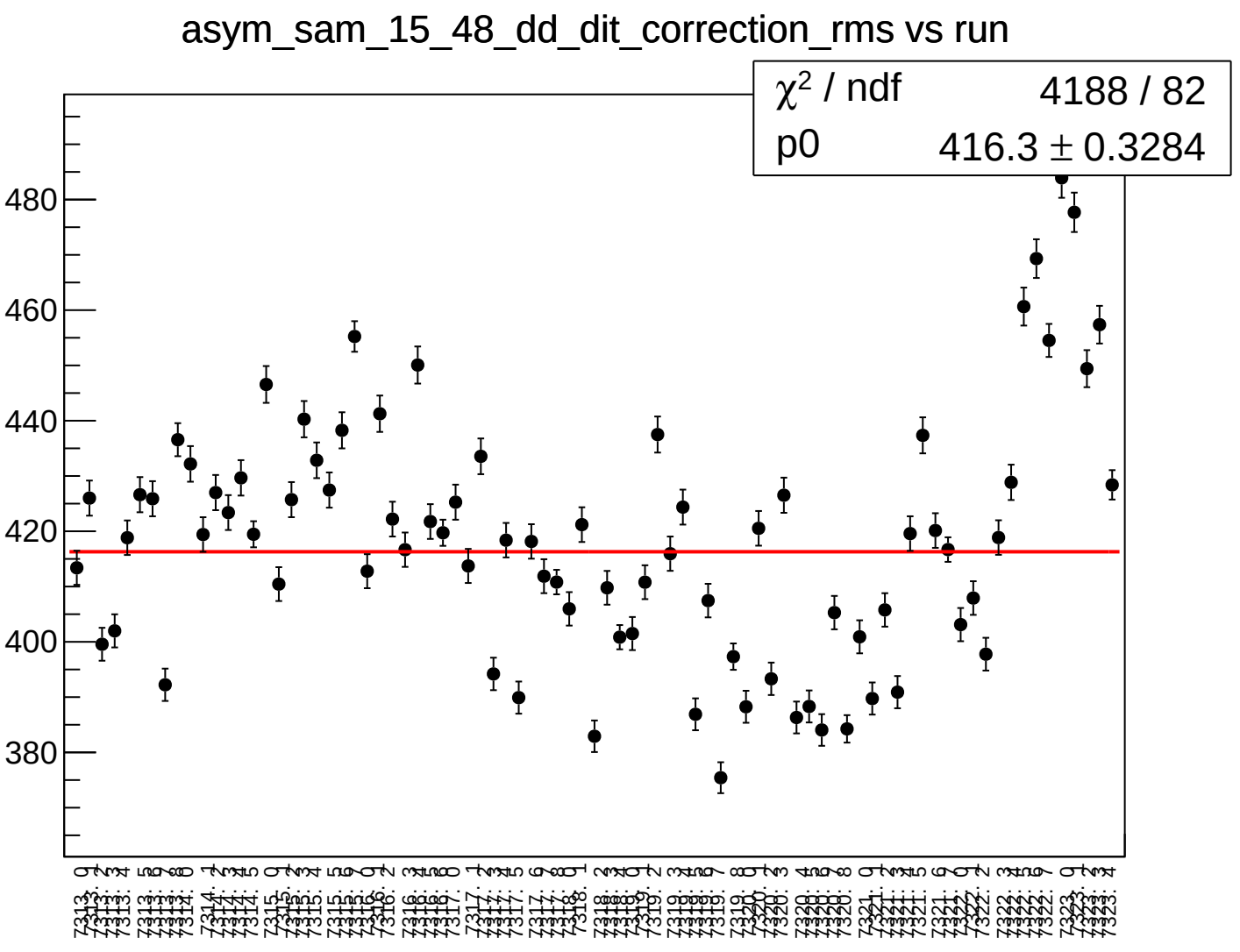

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 97.44 / 82
p0 −74.36 ± 65.5
pull
Entries 83
Mean −8.674
Std Dev 36.47

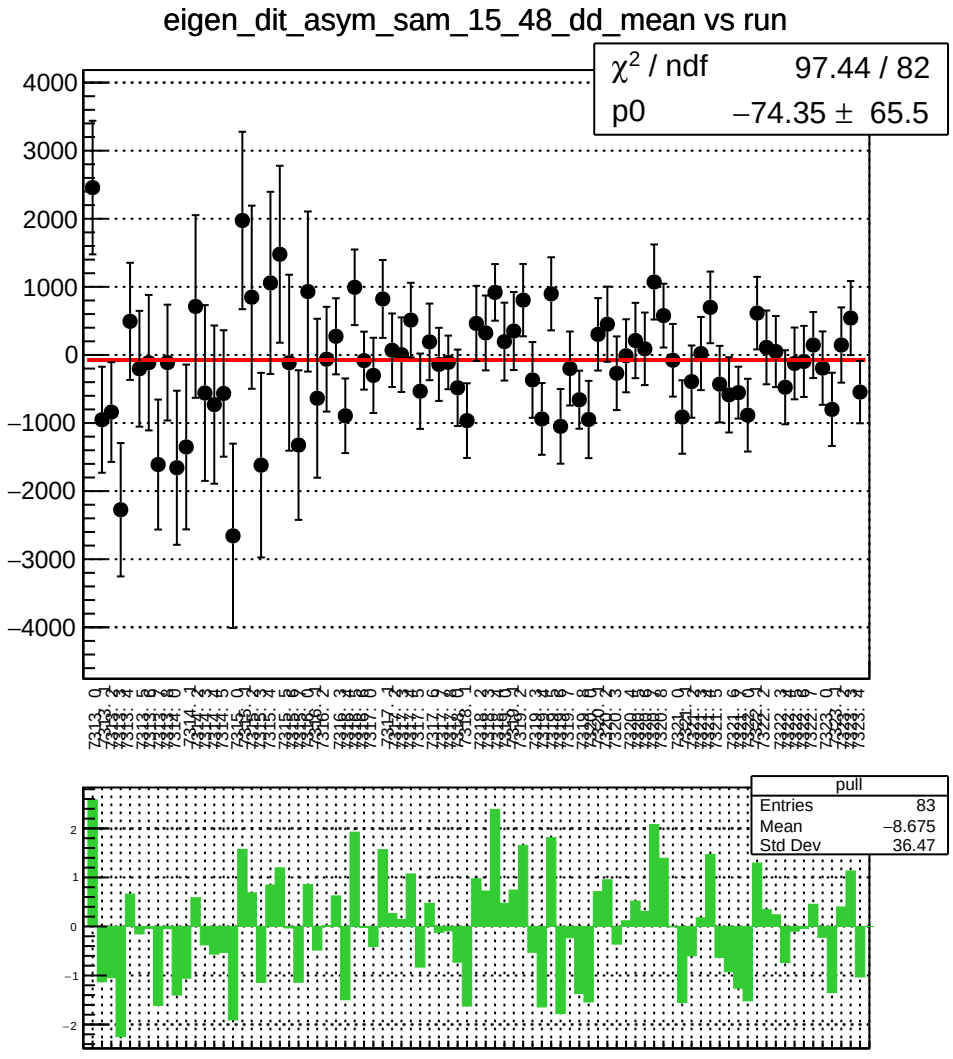

pull1D
Entries 83
Mean −0.02631
Std Dev 1.083

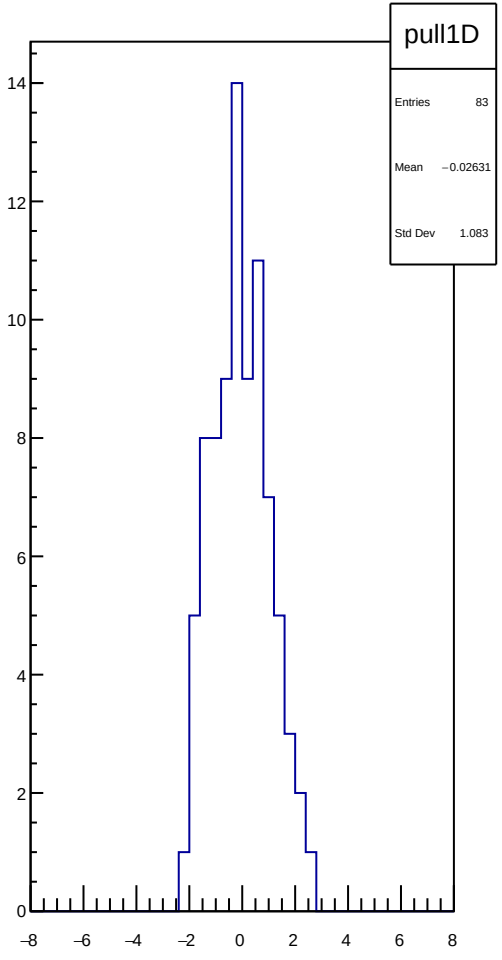

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.173e+05 / 82
p0 56.61 ± 0.04632
130
120
110
100
90
80
70
60
50

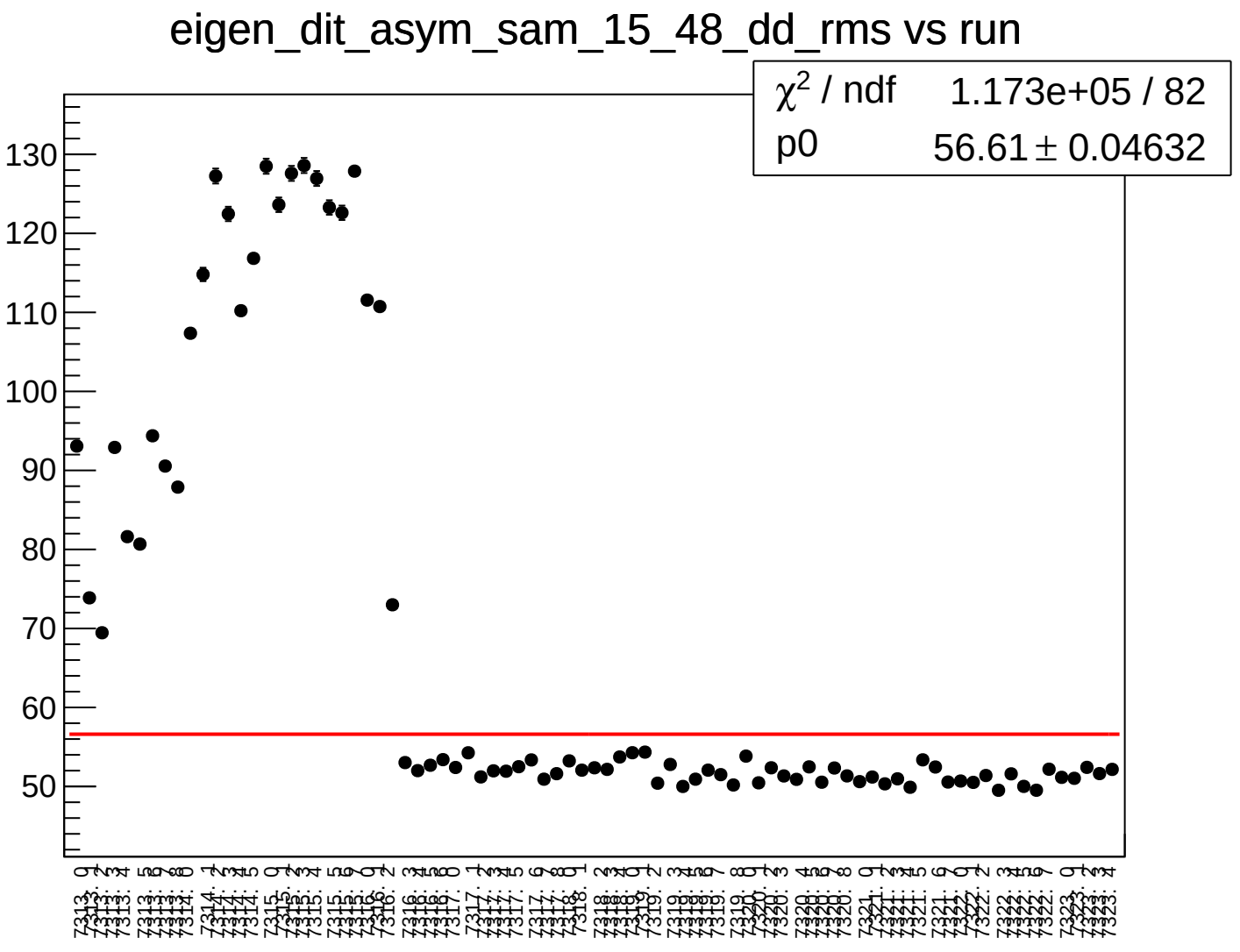

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 61.09 / 82
p0 3.231 ± 464.4
pull
Entries 83
Mean 14.5
Std Dev 42.18

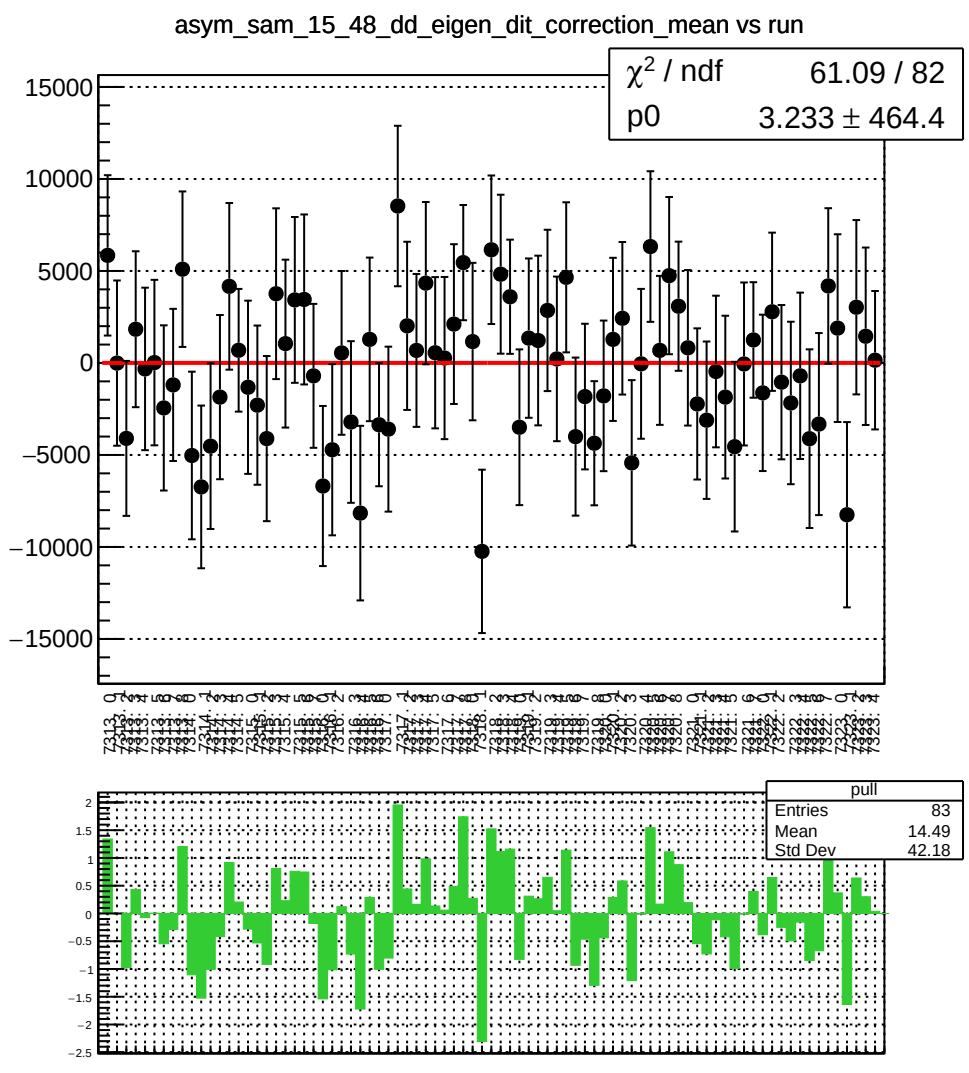

pull1D
Entries 83
Mean −0.02072
Std Dev 0.8577

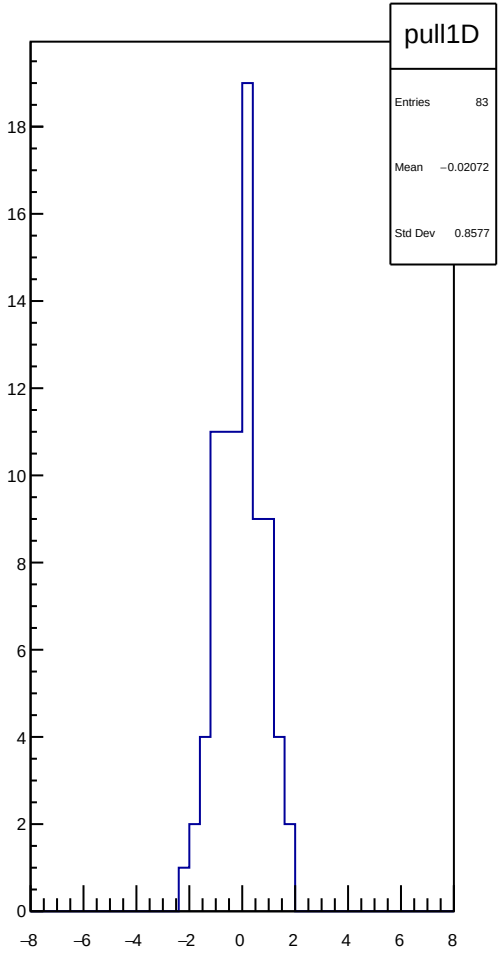

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 4188 / 82
p0 416.3 ± 0.3284
480
460
440
420
400
380

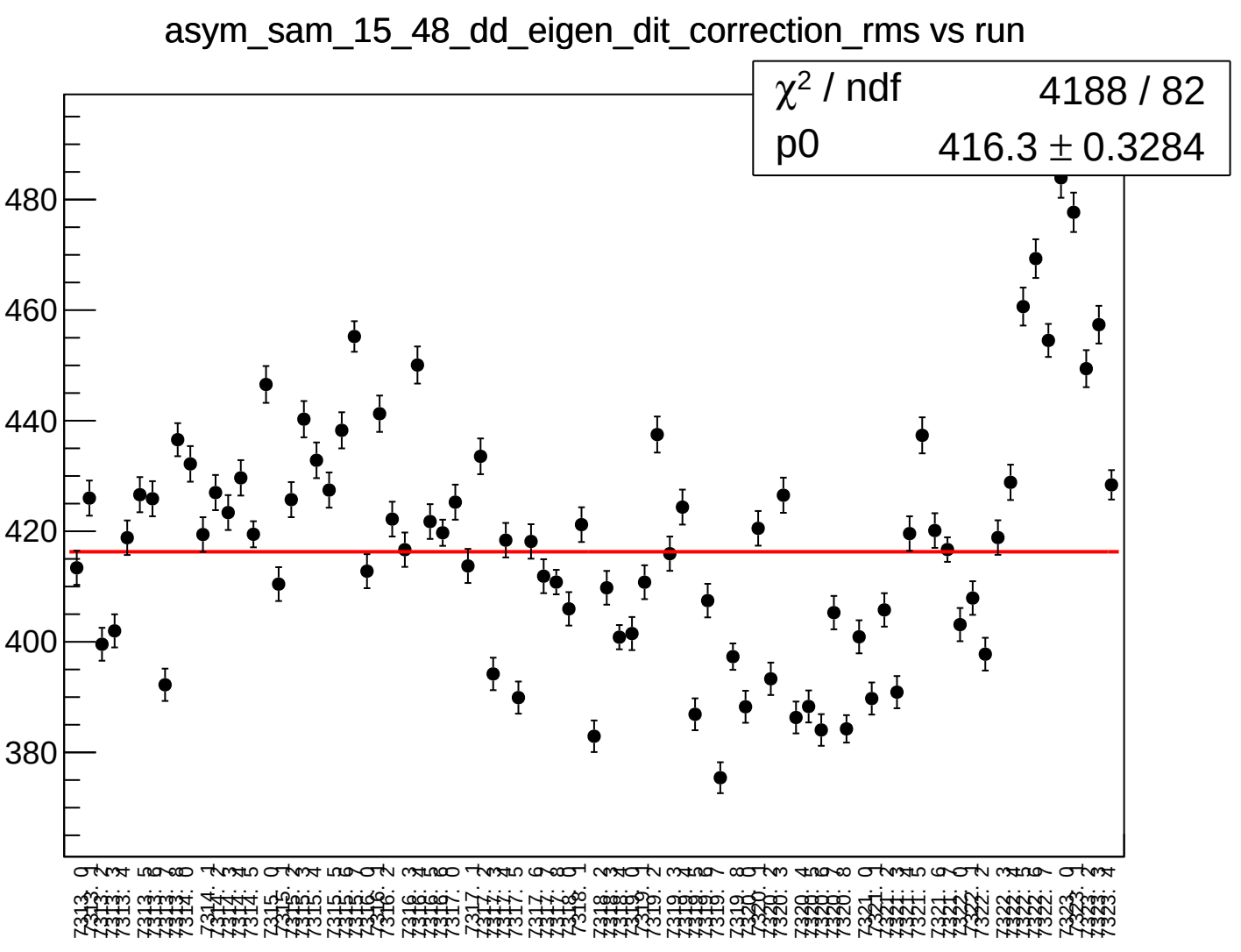

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 97.44 / 82
p0 −74.35 ± 65.5
pull
Entries 83
Mean −8.675
Std Dev 36.47

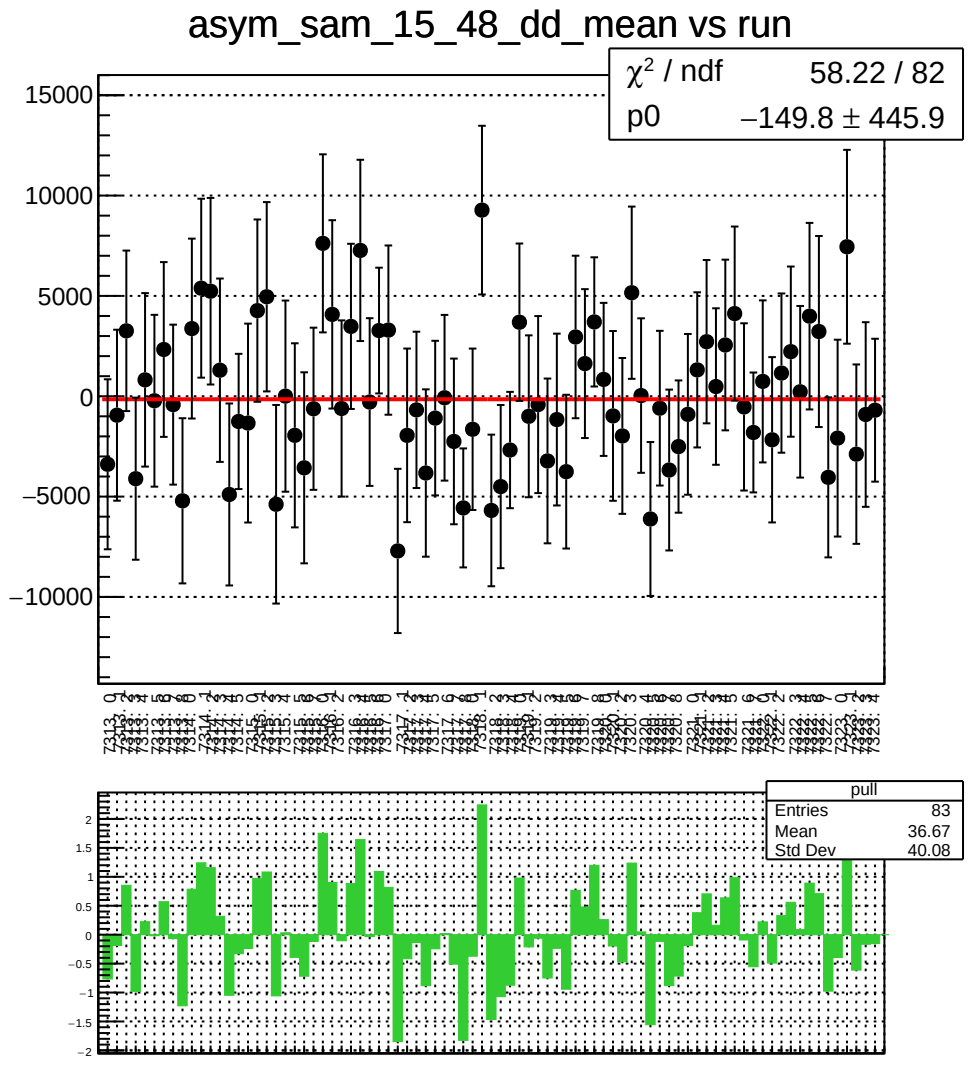

pull1D
Entries 83
Mean −0.02631
Std Dev 1.083

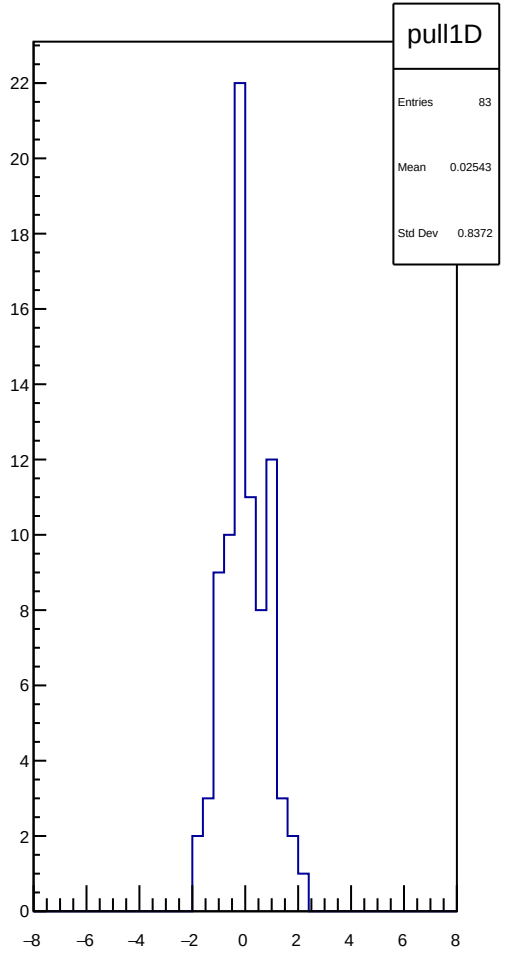

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.173e+05 / 82
p0 56.61 ± 0.04632
130
120
110
100
90
80
70
60
50

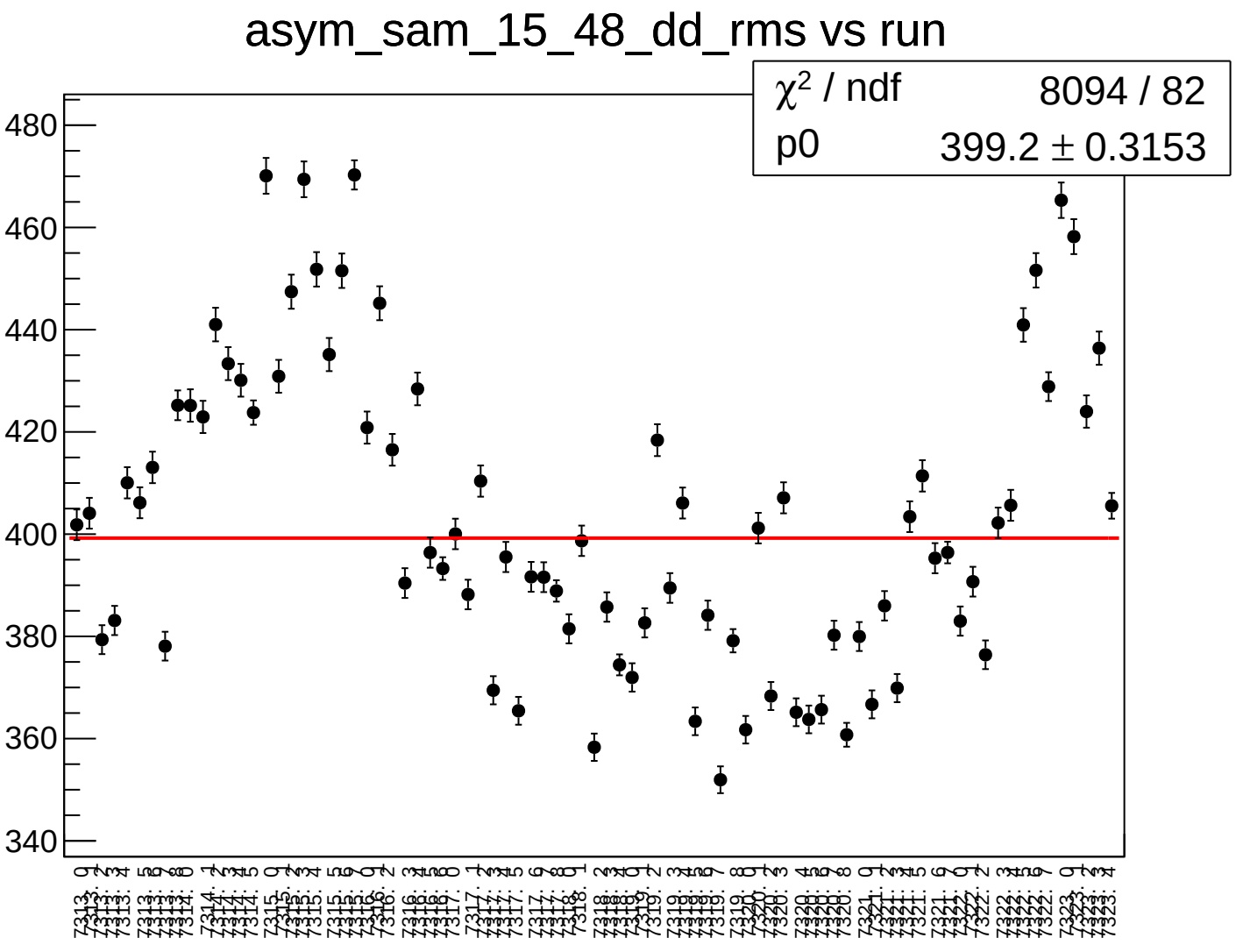

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 61.09 / 82
p0 3.233 ± 464.4
pull
Entries 83
Mean 14.49
Std Dev 42.18

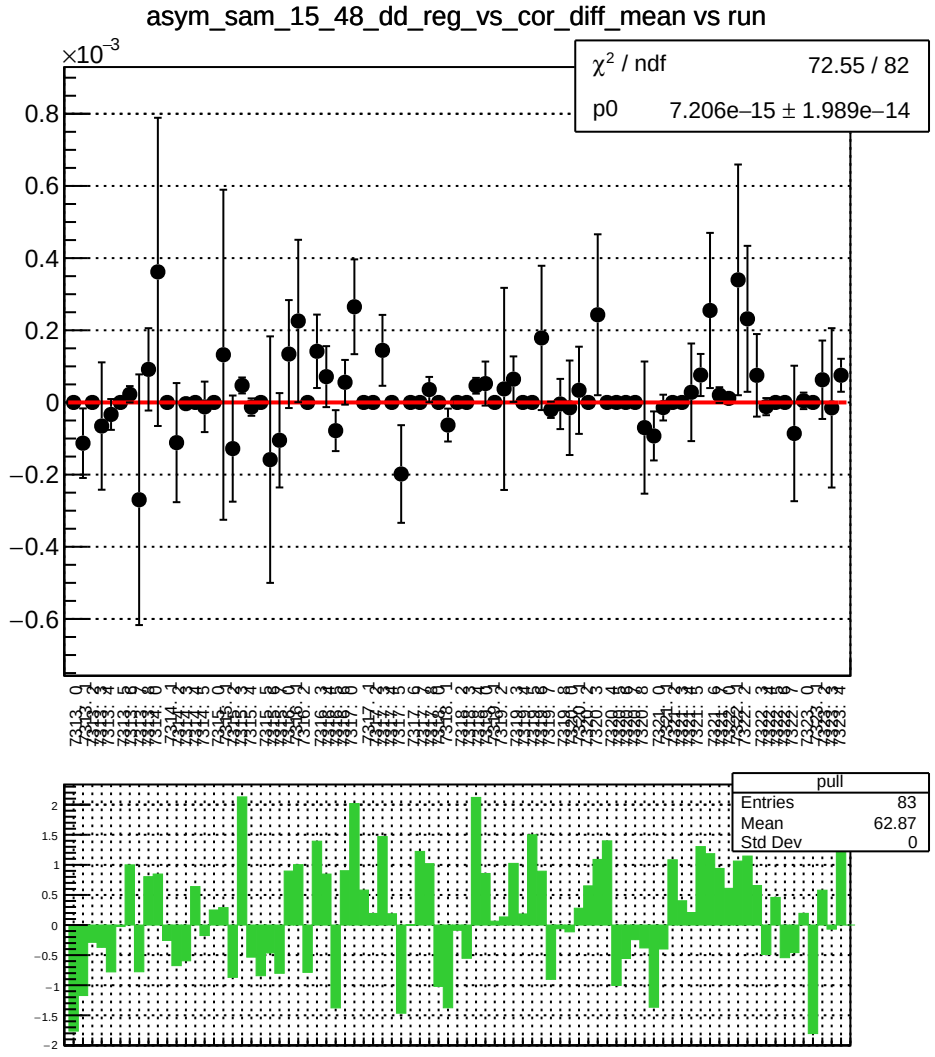

pull1D
Entries 83
Mean −0.02072
Std Dev 0.8577

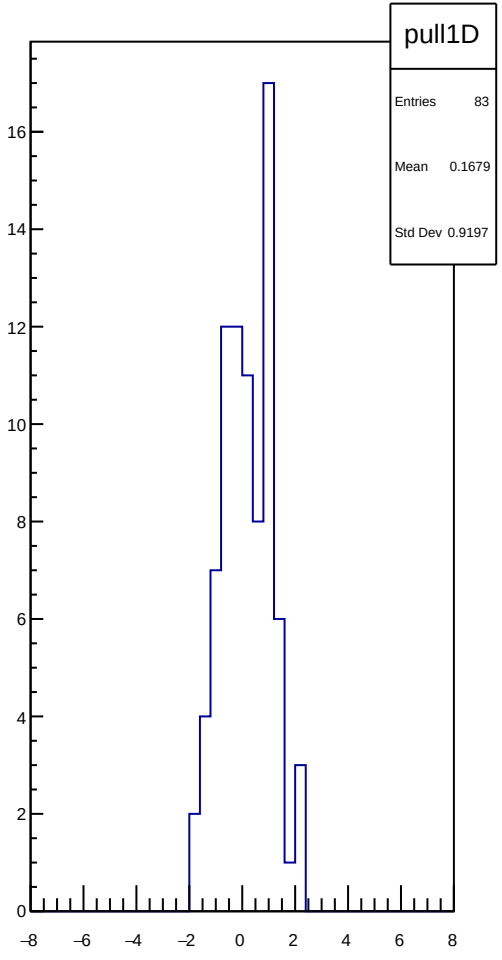

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4188 / 82
p0 416.3 ± 0.3284
480
460
440
420
400
380

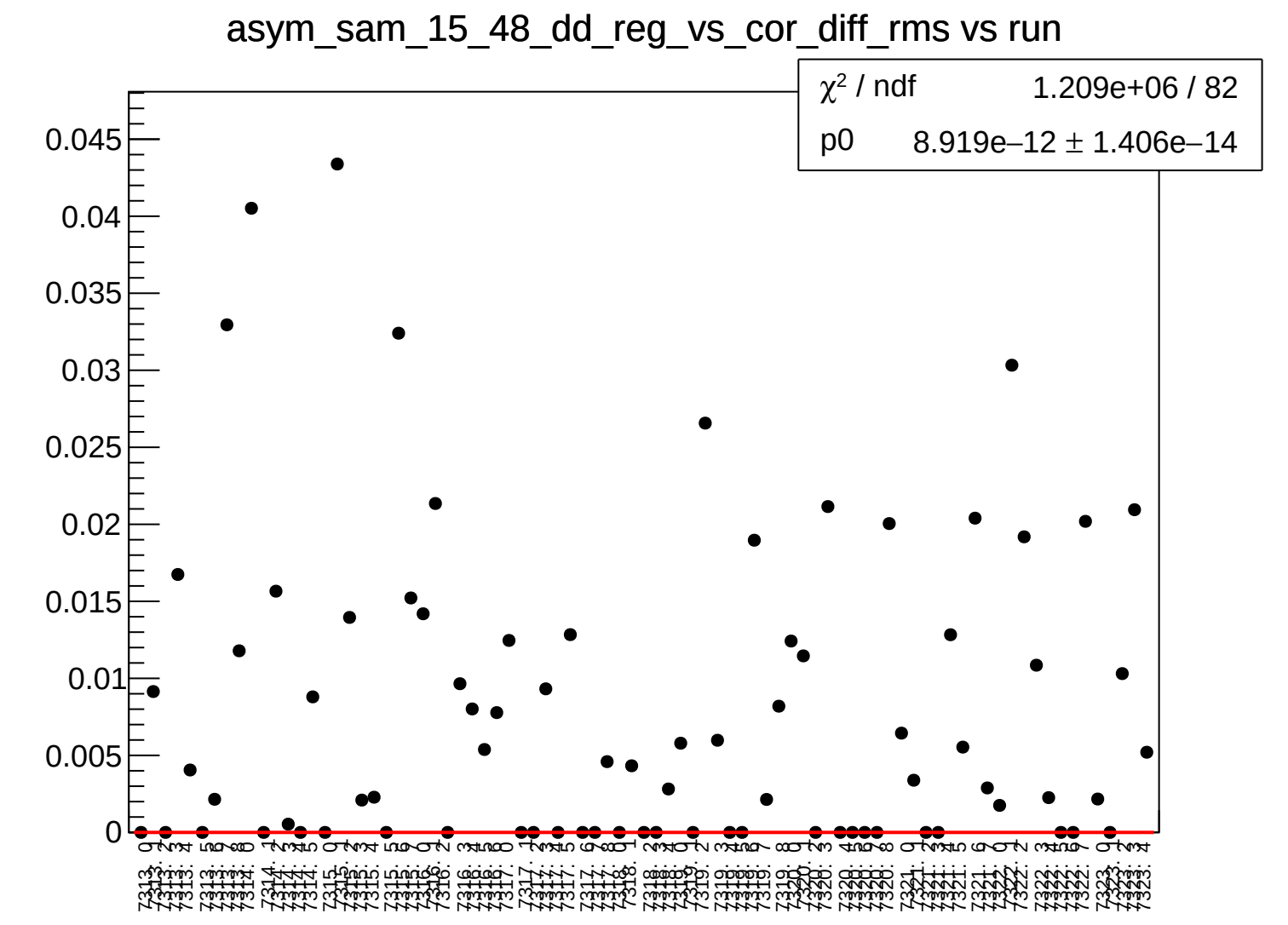

asym_sam_15_48_dd_mean vs run
χ² / ndf 58.22 / 82
p0 −149.8 ± 445.9
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 36.67
Std Dev 40.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

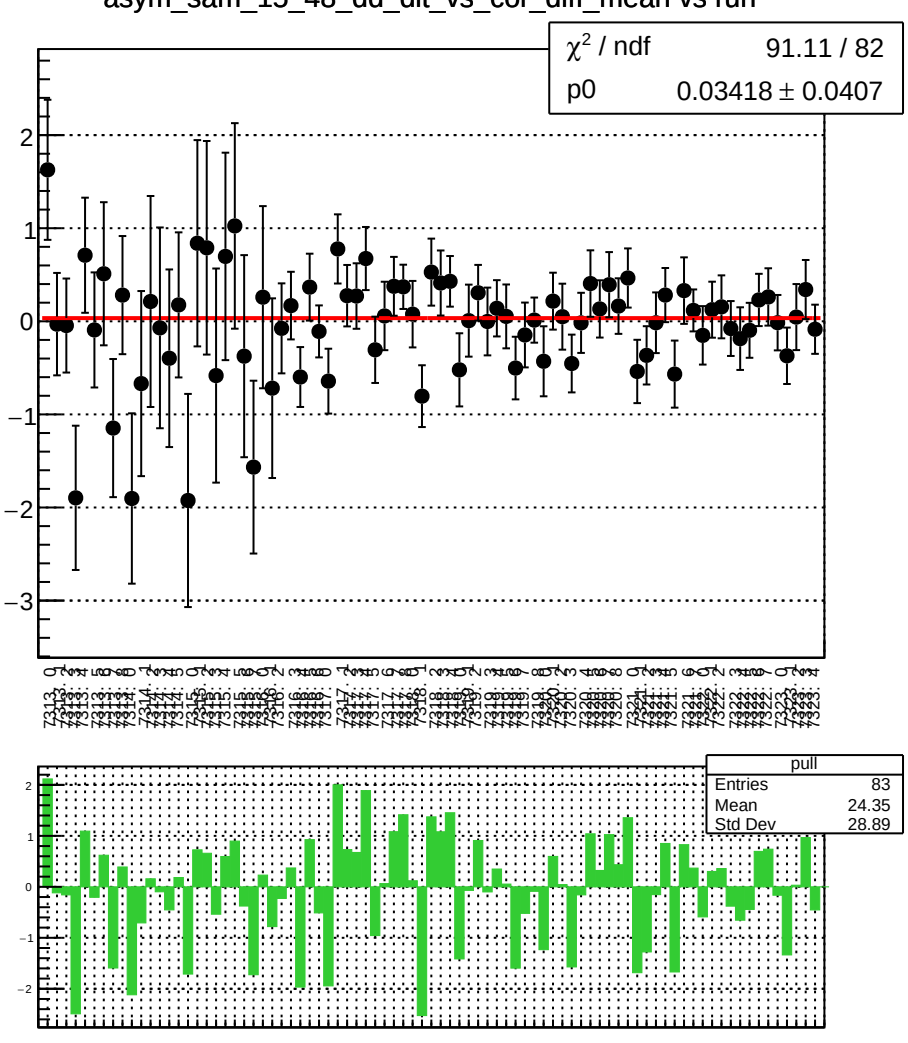

pull1D
Entries 83
Mean 0.02543
Std Dev 0.8372
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

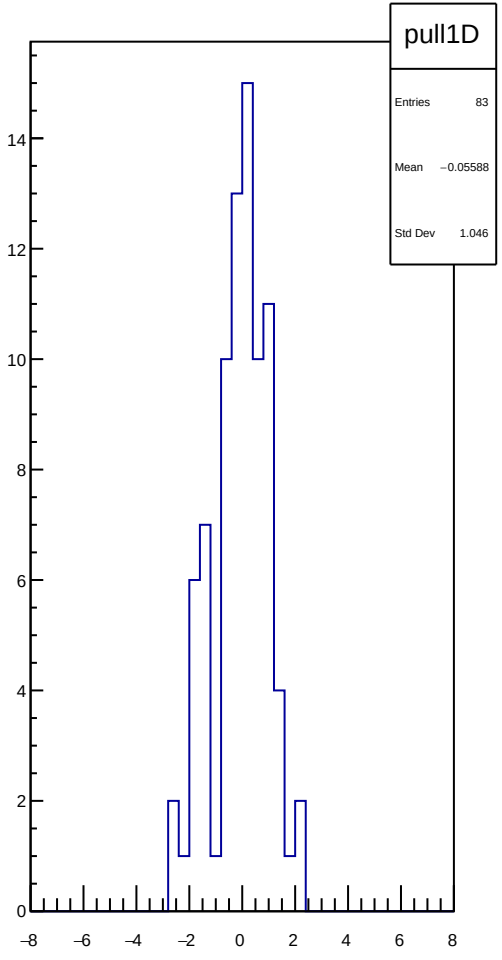

asym_sam_15_48_dd_rms vs run
χ² / ndf 8094 / 82
p0 399.2 ± 0.3153
480
460
440
420
400
380
360
340

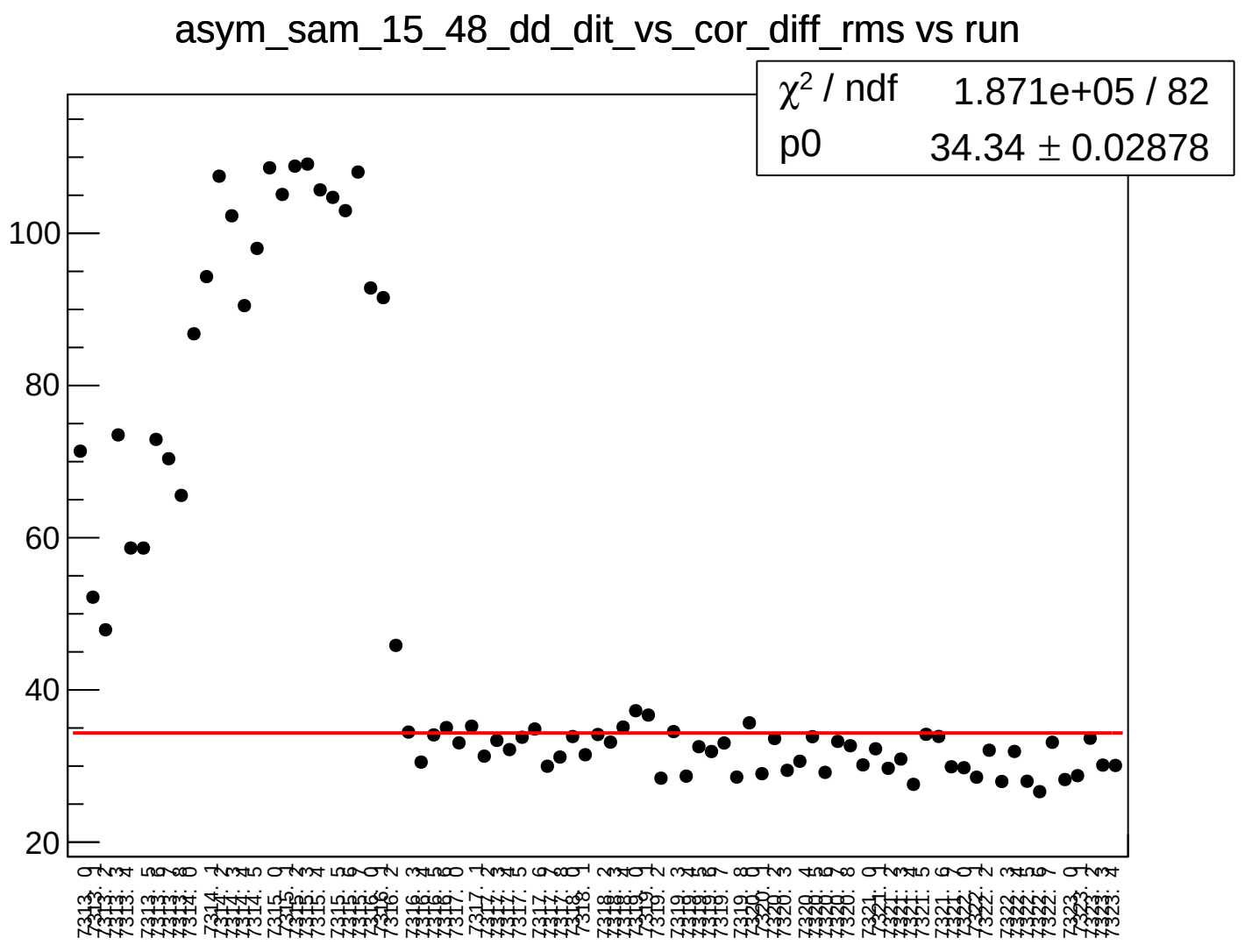

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 72.55 / 82
p0 7.206e−15 ± 1.989e−14
pull
Entries 83
Mean 62.87
Std Dev 0

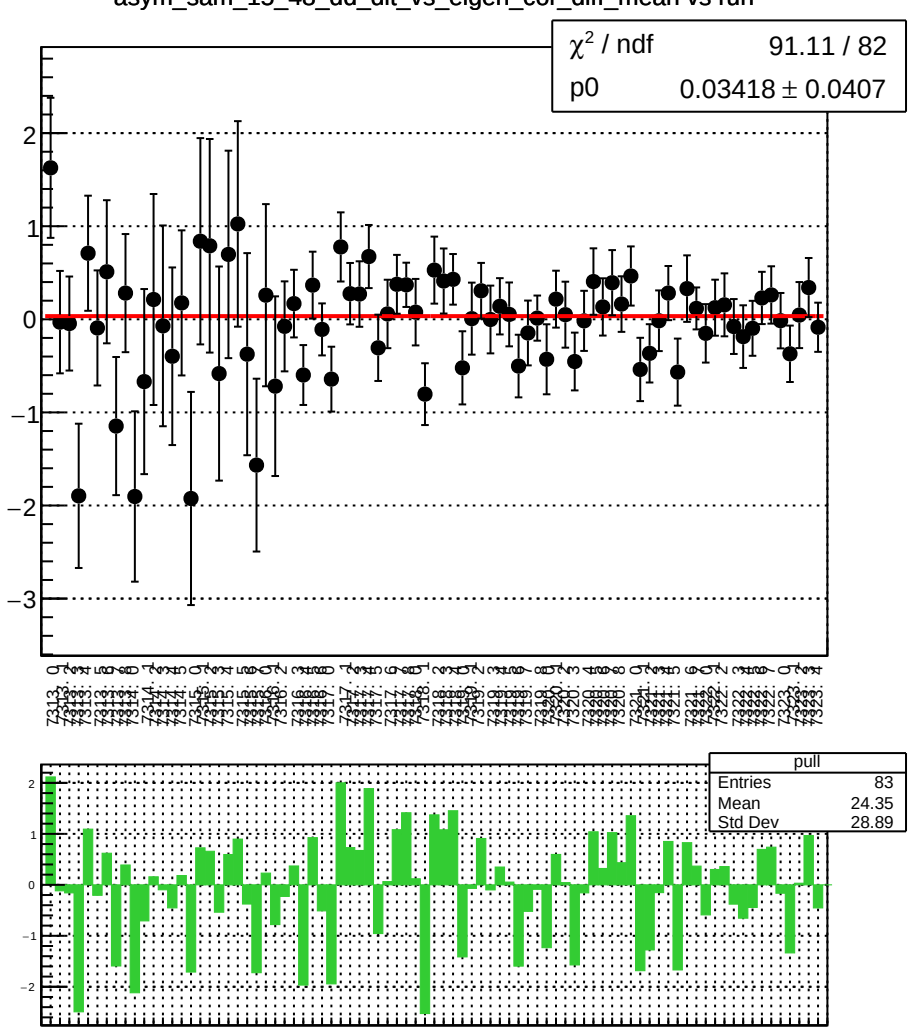

pull1D
Entries 83
Mean 0.1679
Std Dev 0.9197

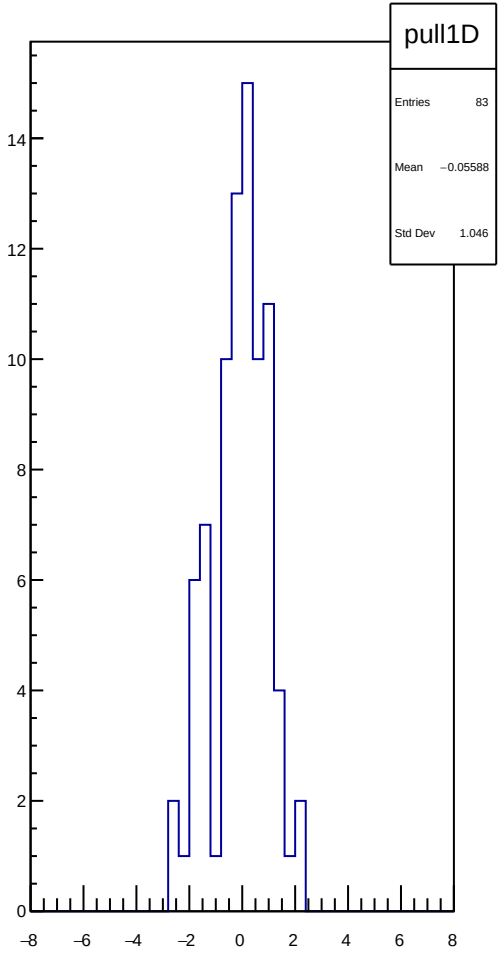

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 82
p0 8.919e−12 ± 1.406e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

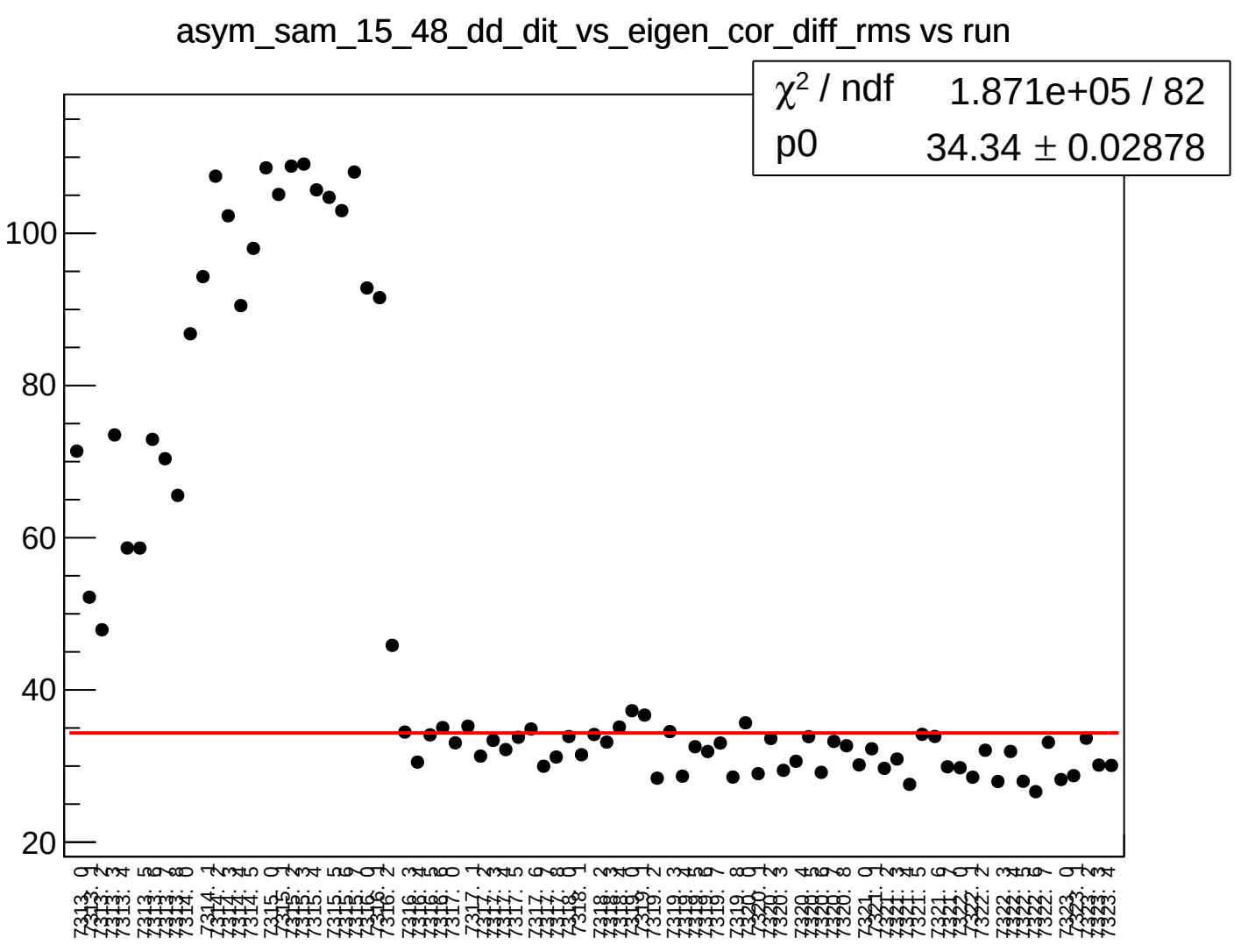

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.11 / 82
p0 0.03418 ± 0.0407
pull
Entries 83
Mean 24.35
Std Dev 28.89

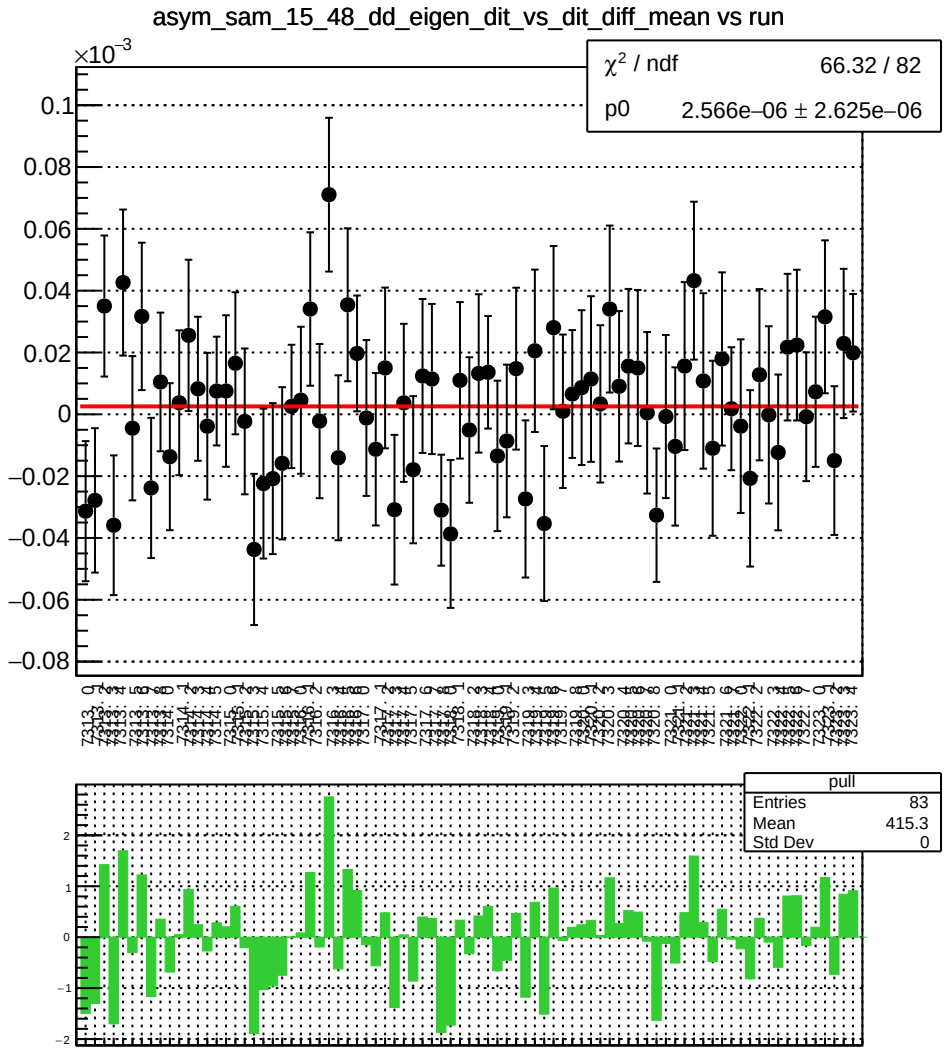

pull1D
Entries 83
Mean −0.05588
Std Dev 1.046

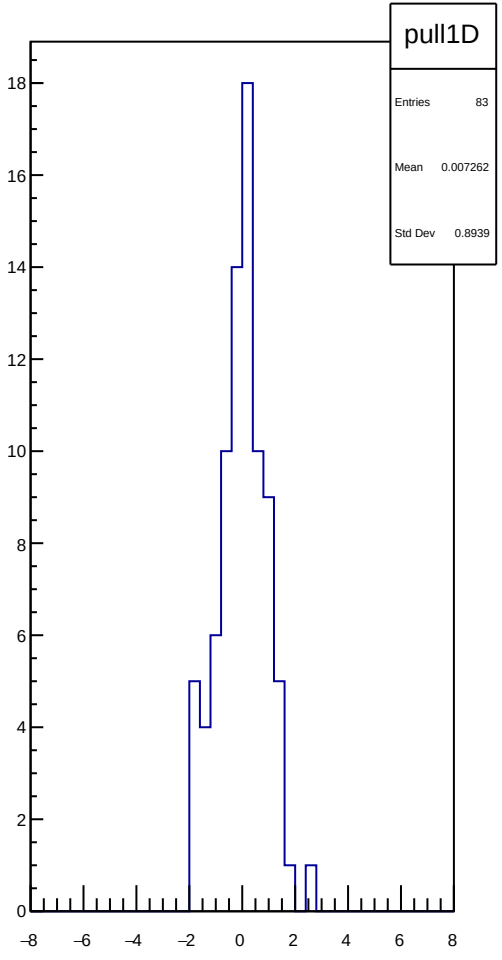

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 82
p0 34.34 ± 0.02878
100
80
60
40
20

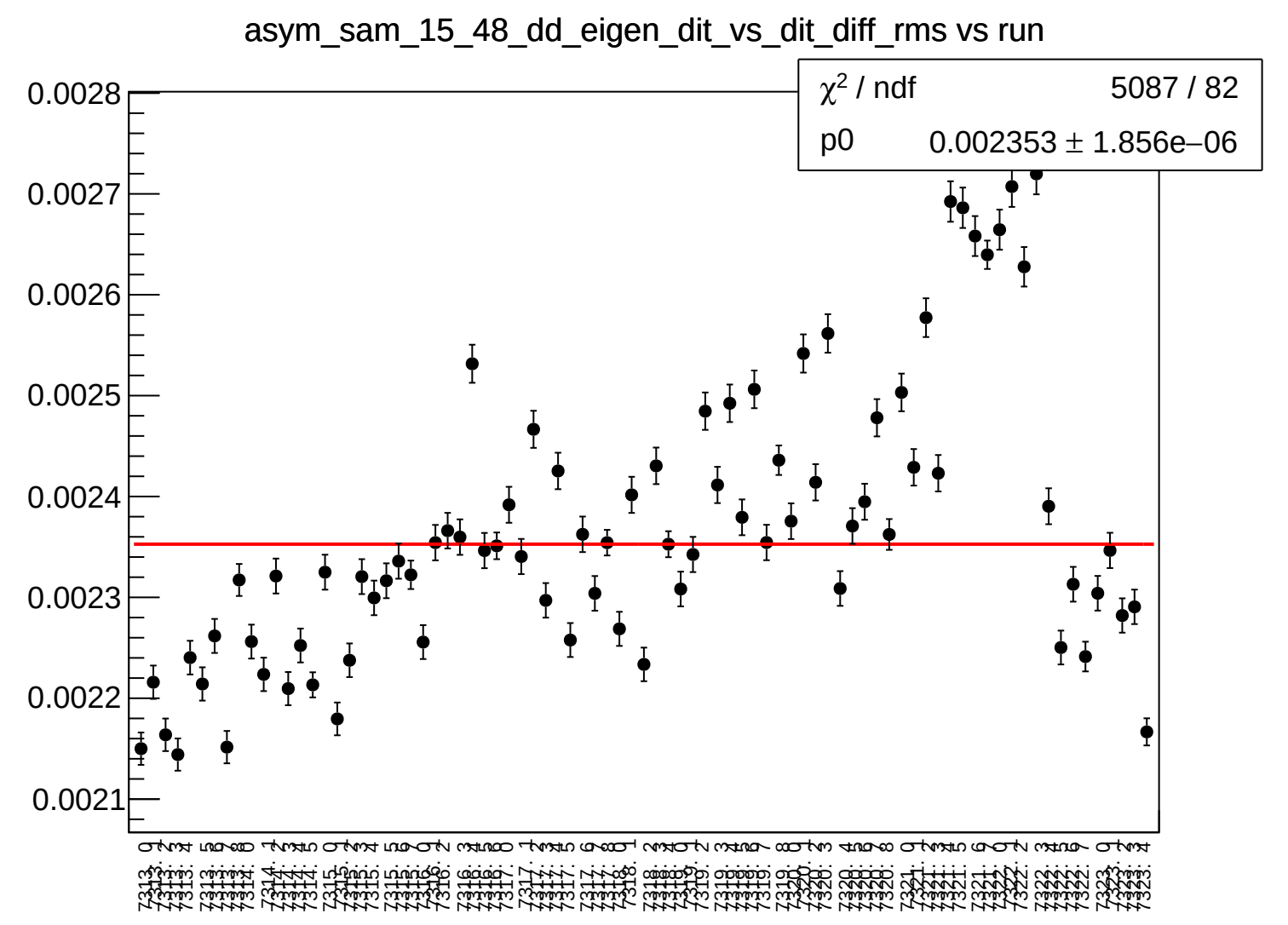

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.11 / 82
p0 0.03418 ± 0.0407
pull
Entries 83
Mean 24.35
Std Dev 28.89

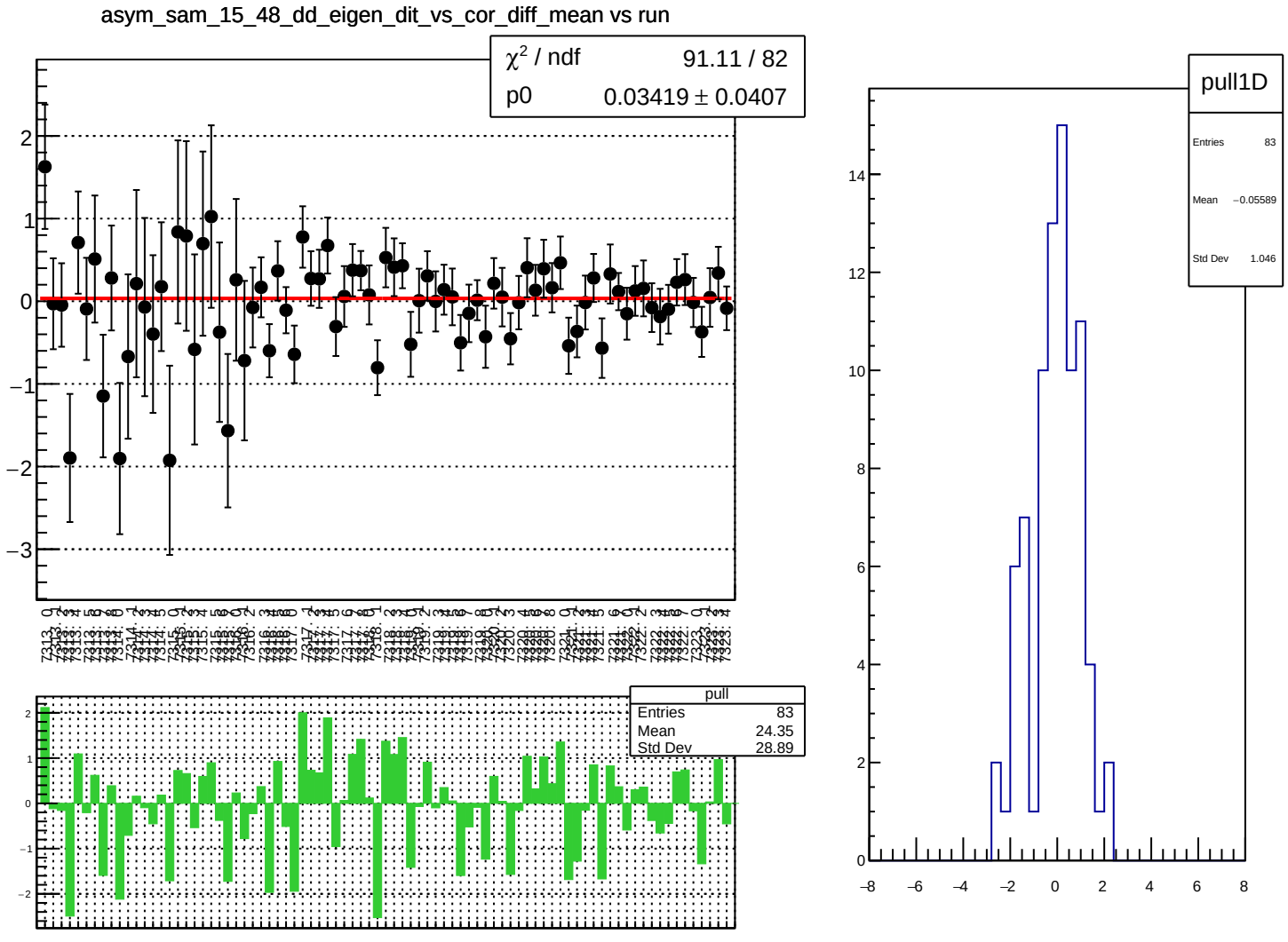

pull1D
Entries 83
Mean −0.05588
Std Dev 1.046

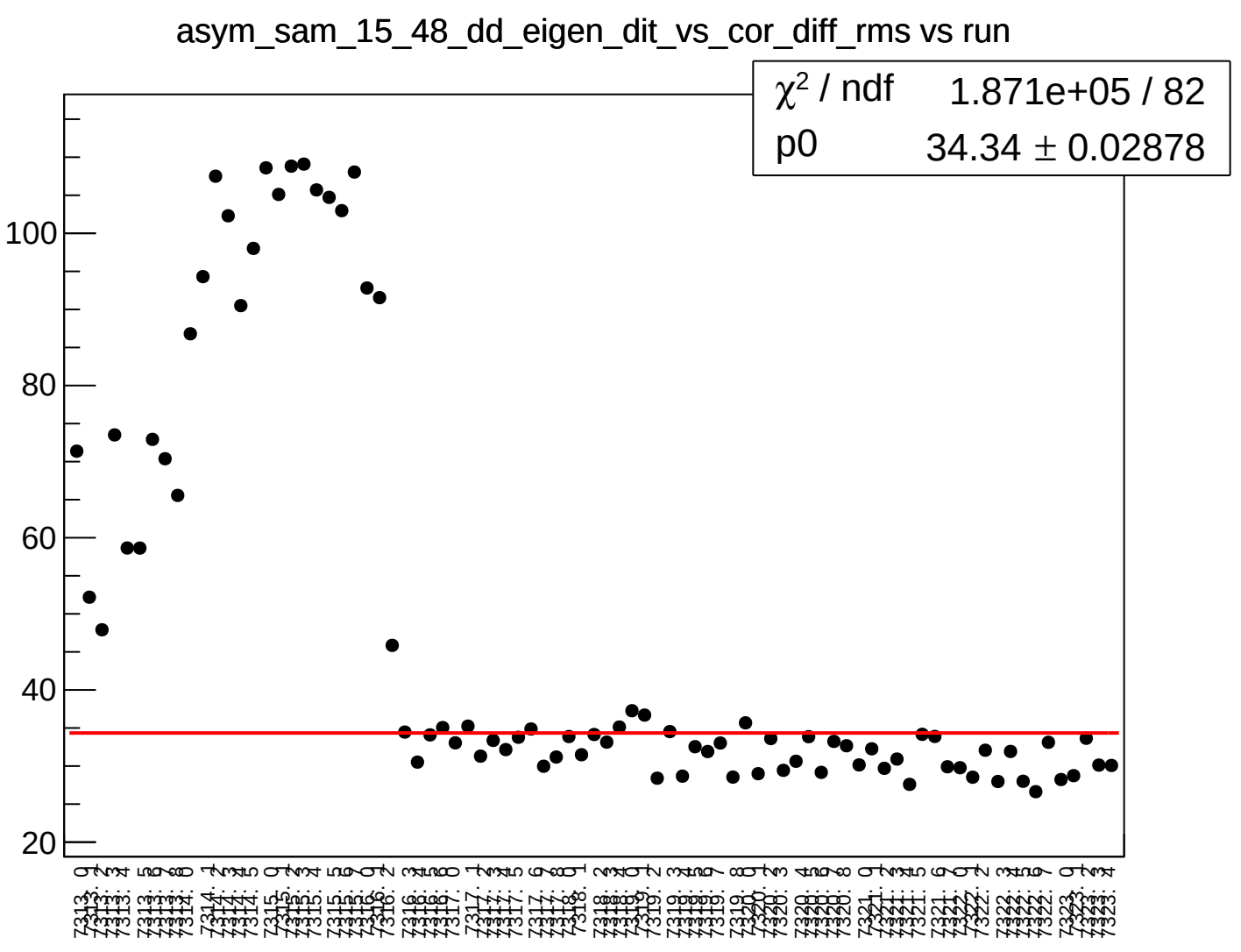

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 82
p0 34.34 ± 0.02878
100
80
60
40
20


asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.32 / 82
p0 2.566e−06 ± 2.625e−06
pull
Entries 83
Mean 415.3
Std Dev 0

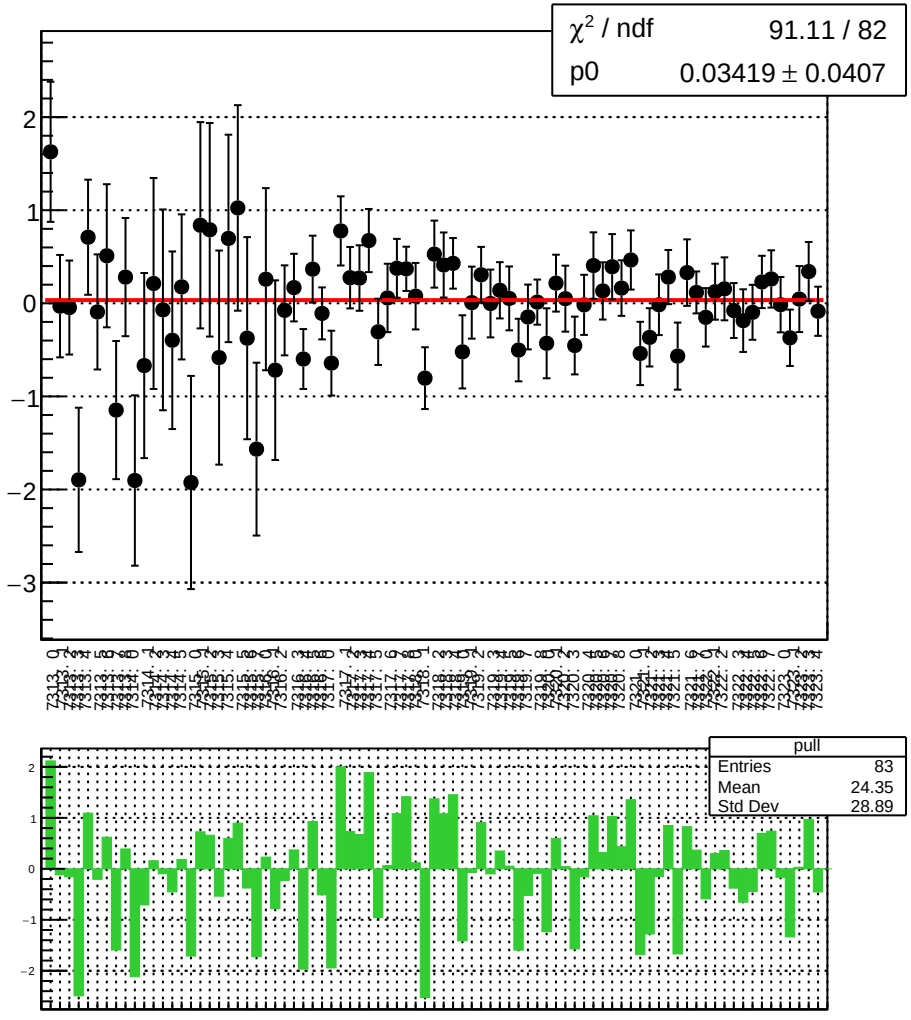

pull1D
Entries 83
Mean 0.007262
Std Dev 0.8939

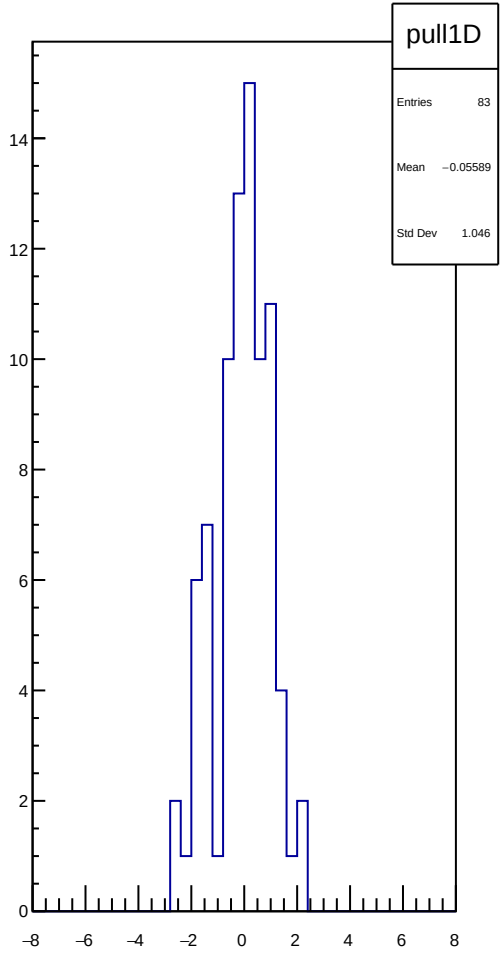

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5087 / 82
p0 0.002353 ± 1.856e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

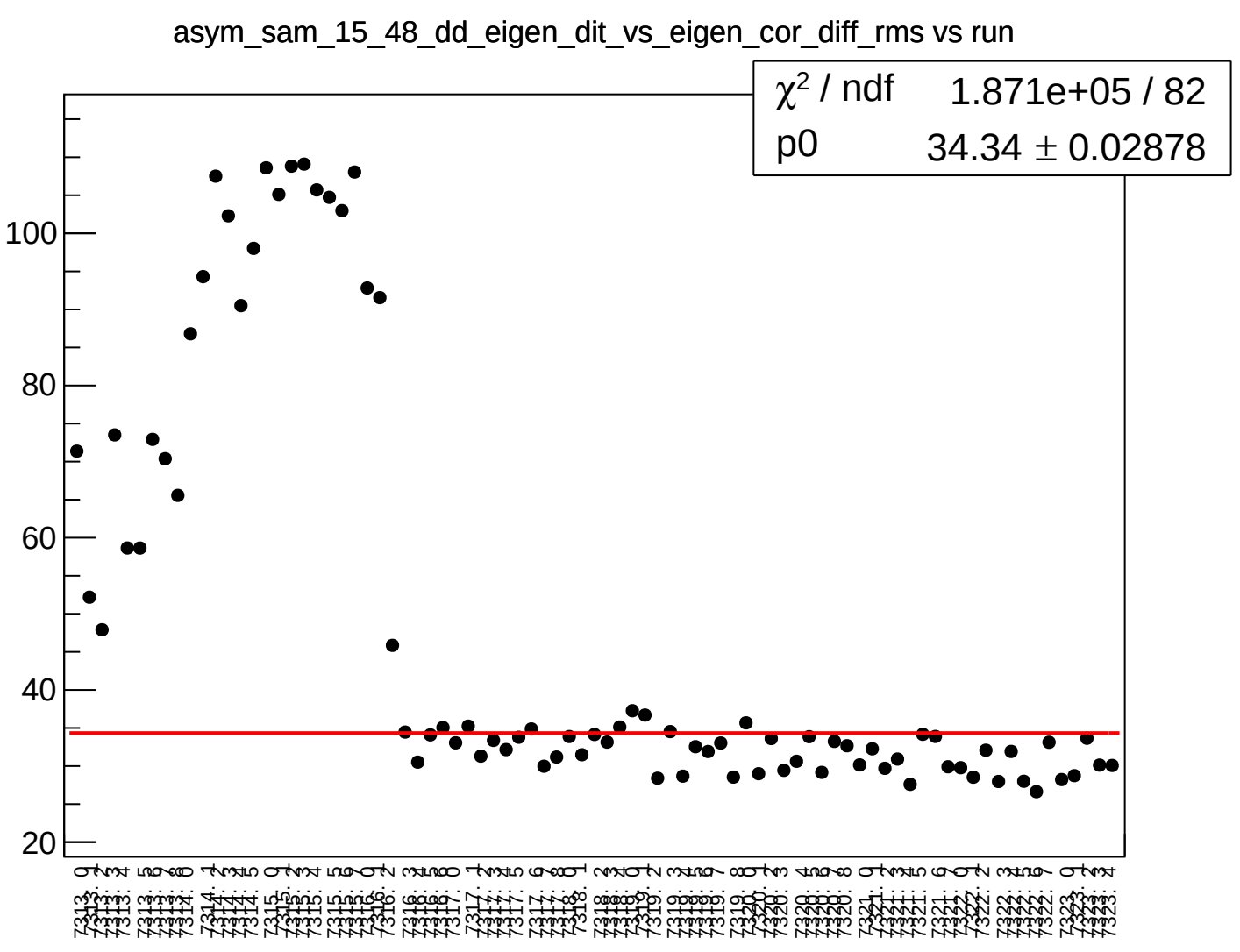

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.11 / 82
p0 0.03419 ± 0.0407
pull
Entries 83
Mean 24.35
Std Dev 28.89
pull1D
Entries 83
Mean −0.05589
Std Dev 1.046

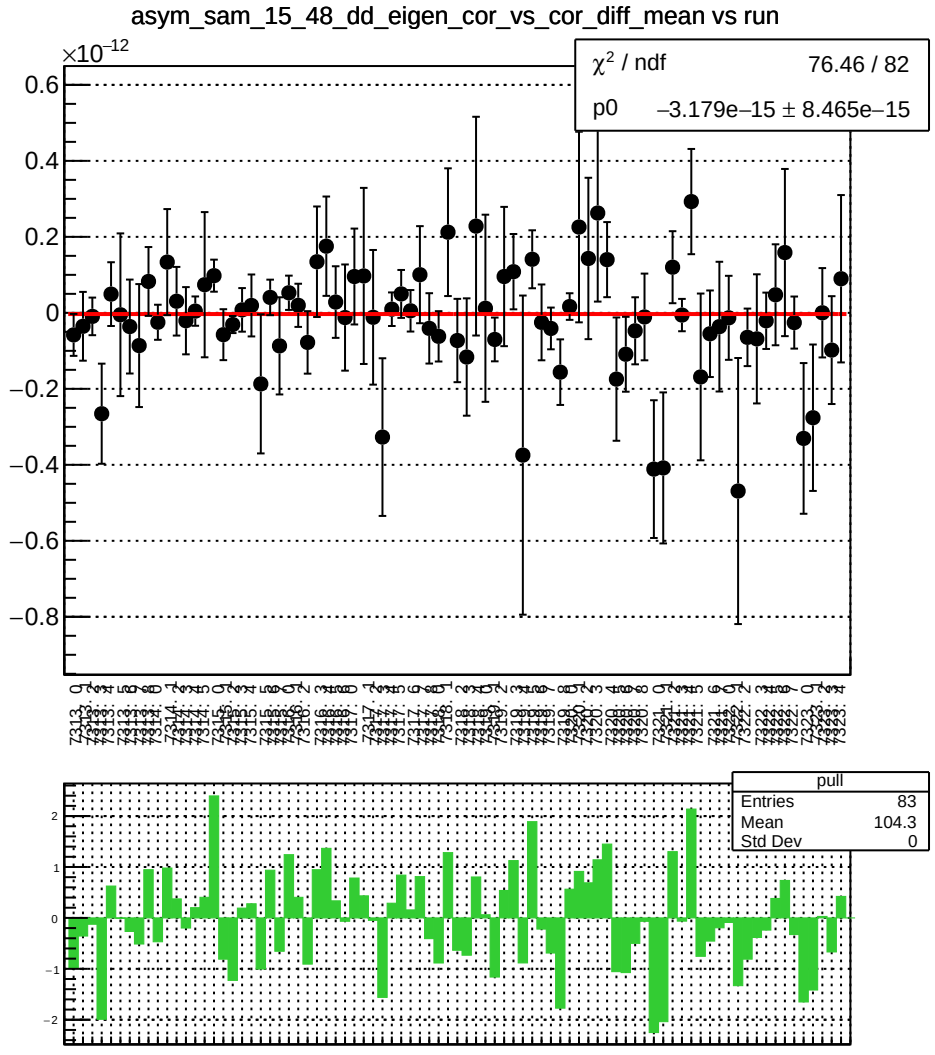

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 82
p0 34.34 ± 0.02878
100
80
60
40
20

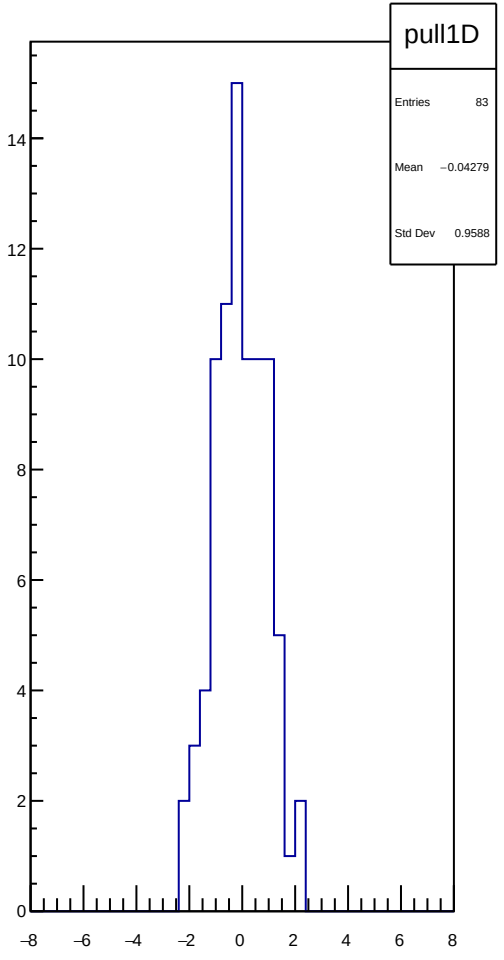
asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

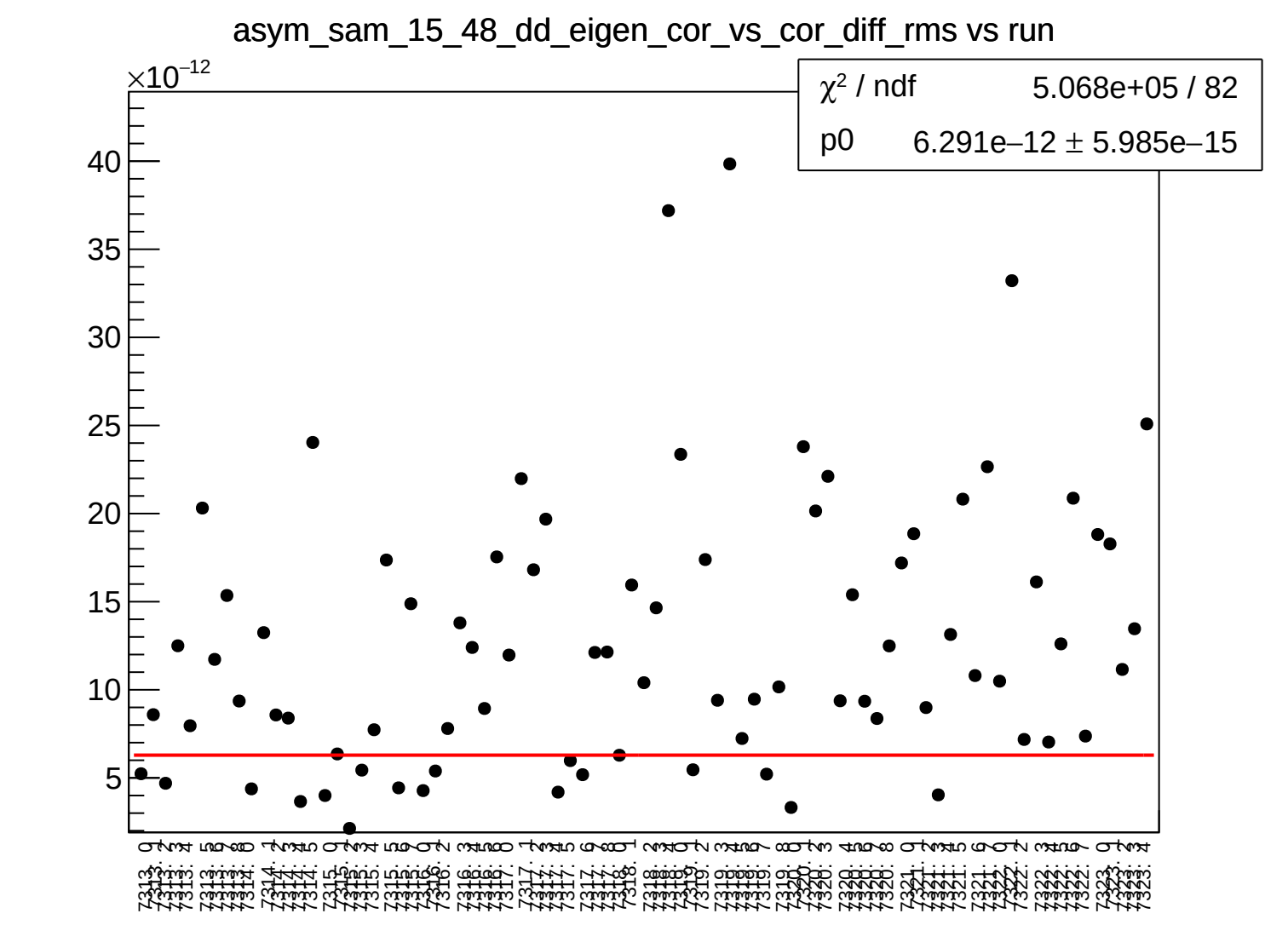


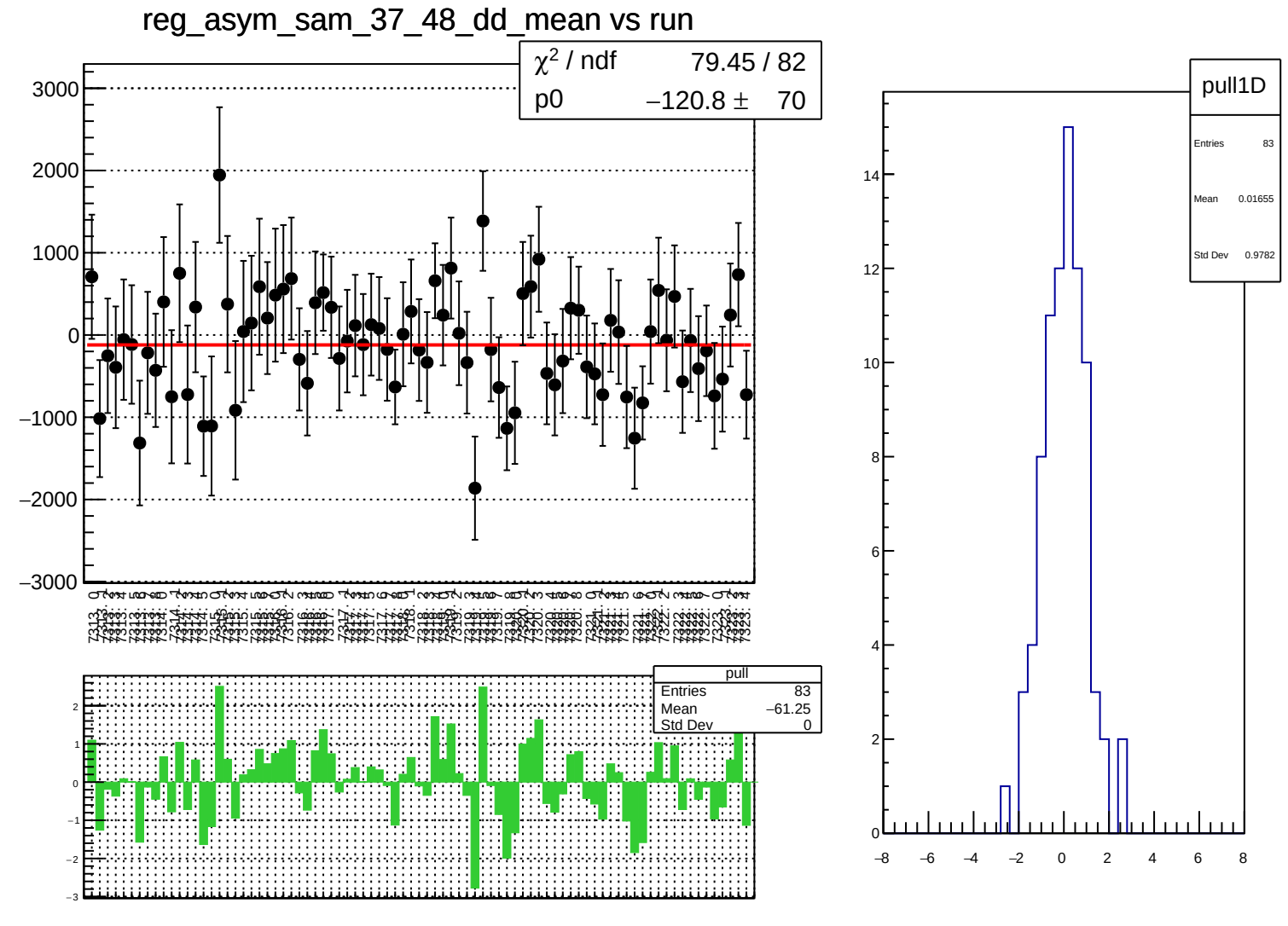


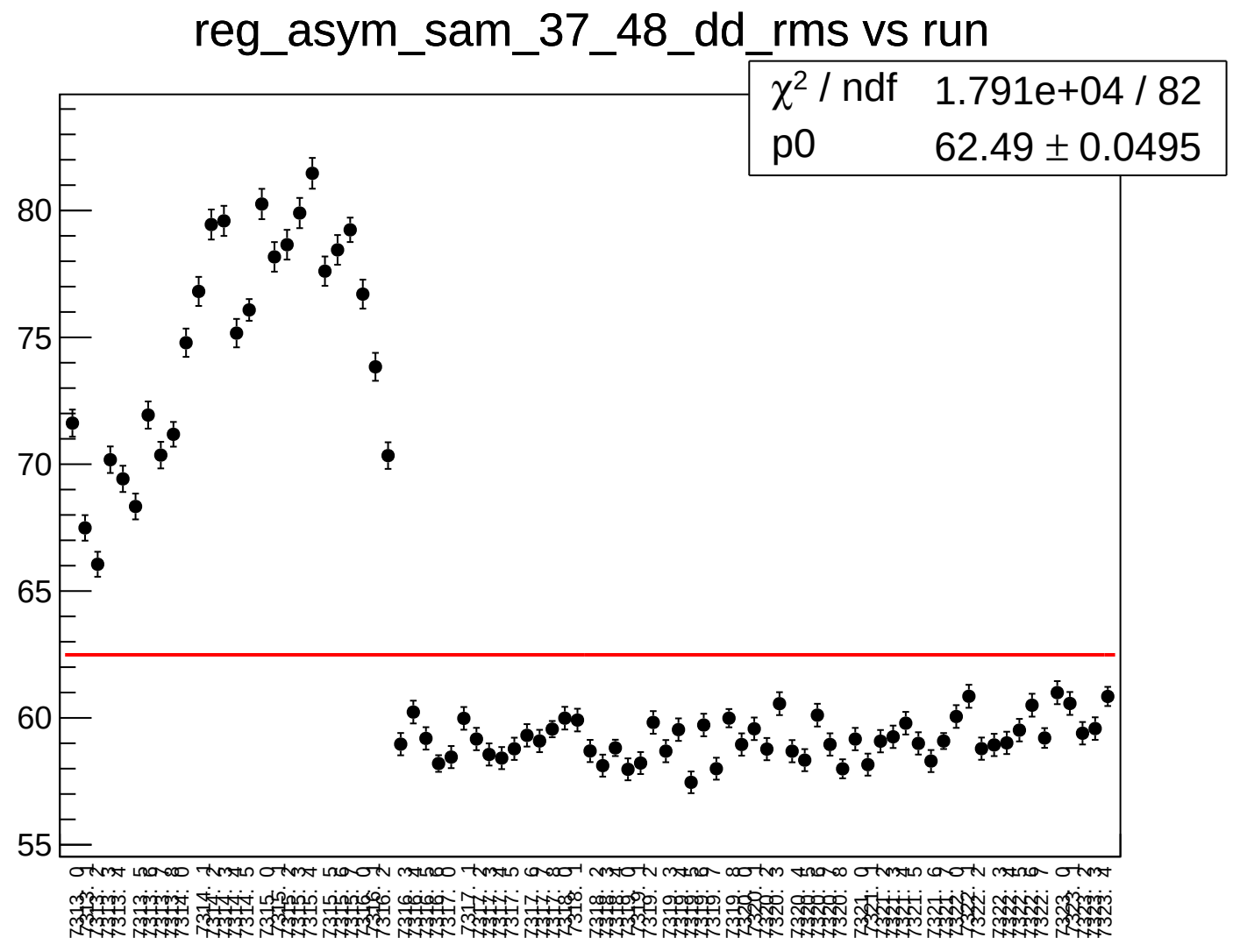

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 82
p0 34.34 ± 0.02878
100
80
60
40
20

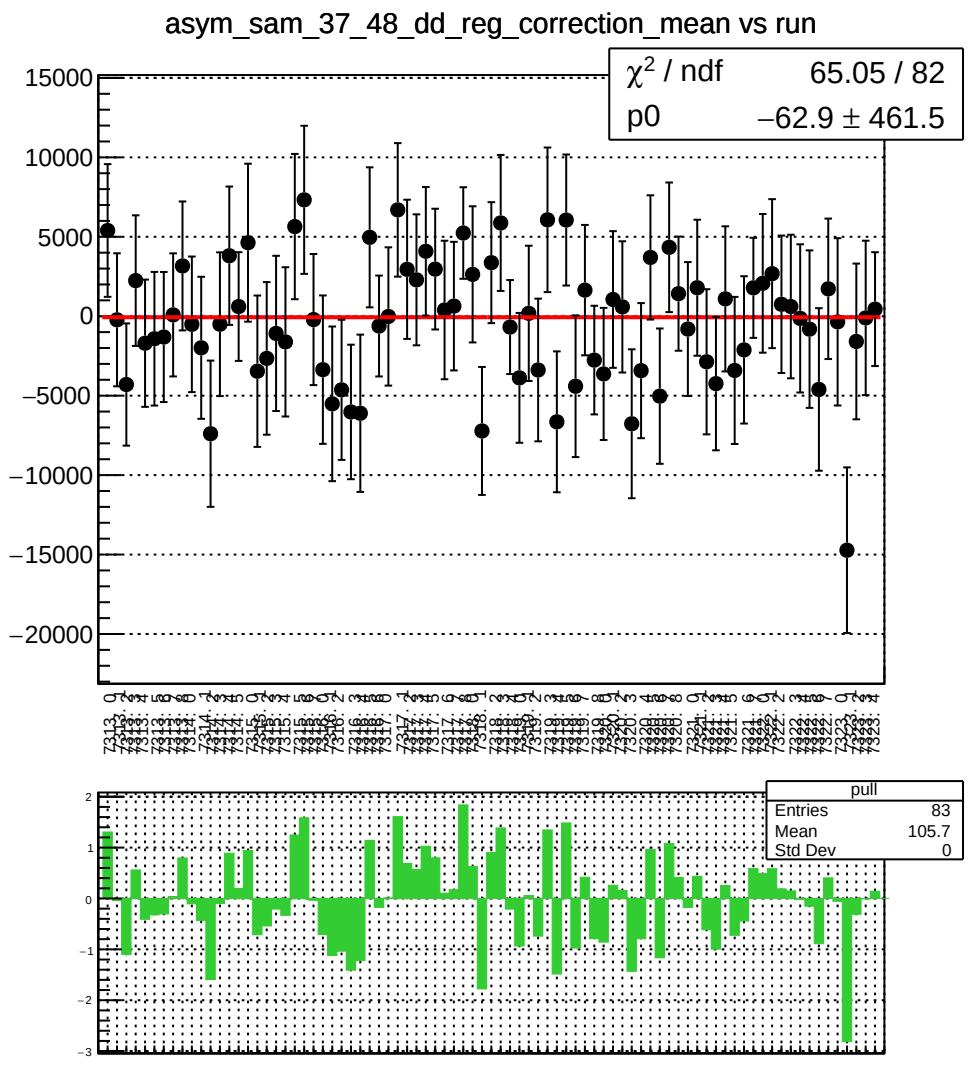

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.46 / 82
p0 −3.179e−15 ± 8.465e−15
pull
Entries 83
Mean 104.3
Std Dev 0

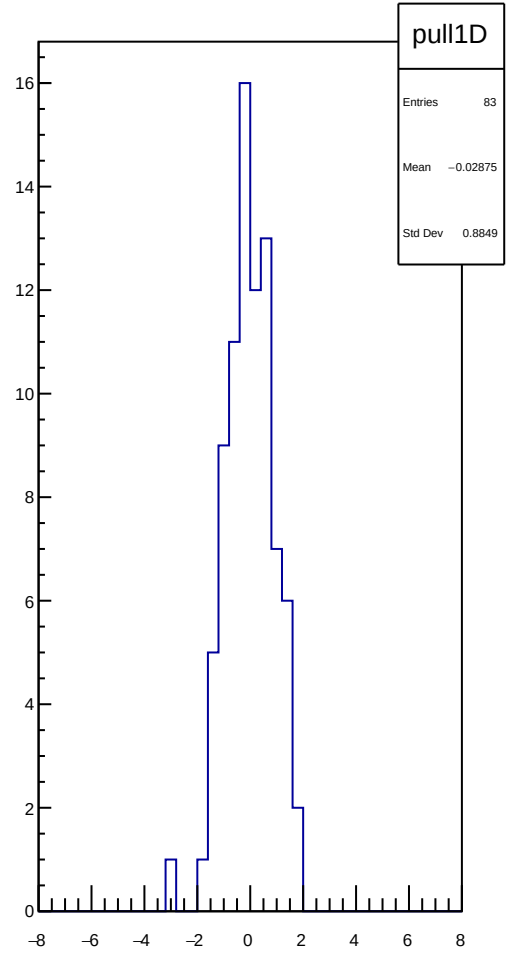

pull1D
Entries 83
Mean −0.04279
Std Dev 0.9588

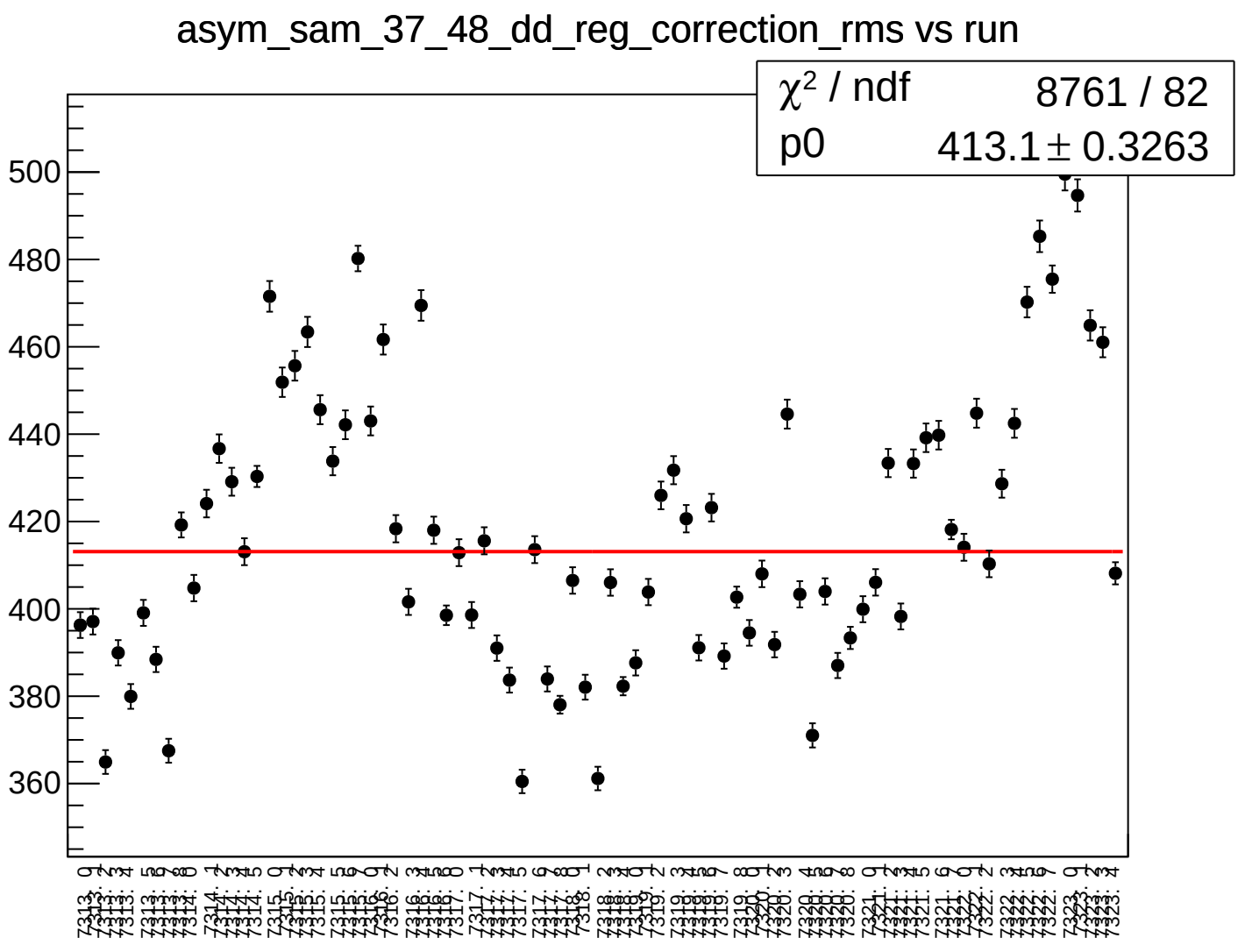

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.068e+05 / 82
p0 6.291e−12 ± 5.985e−15
40
35
30
25
20
15
10
5

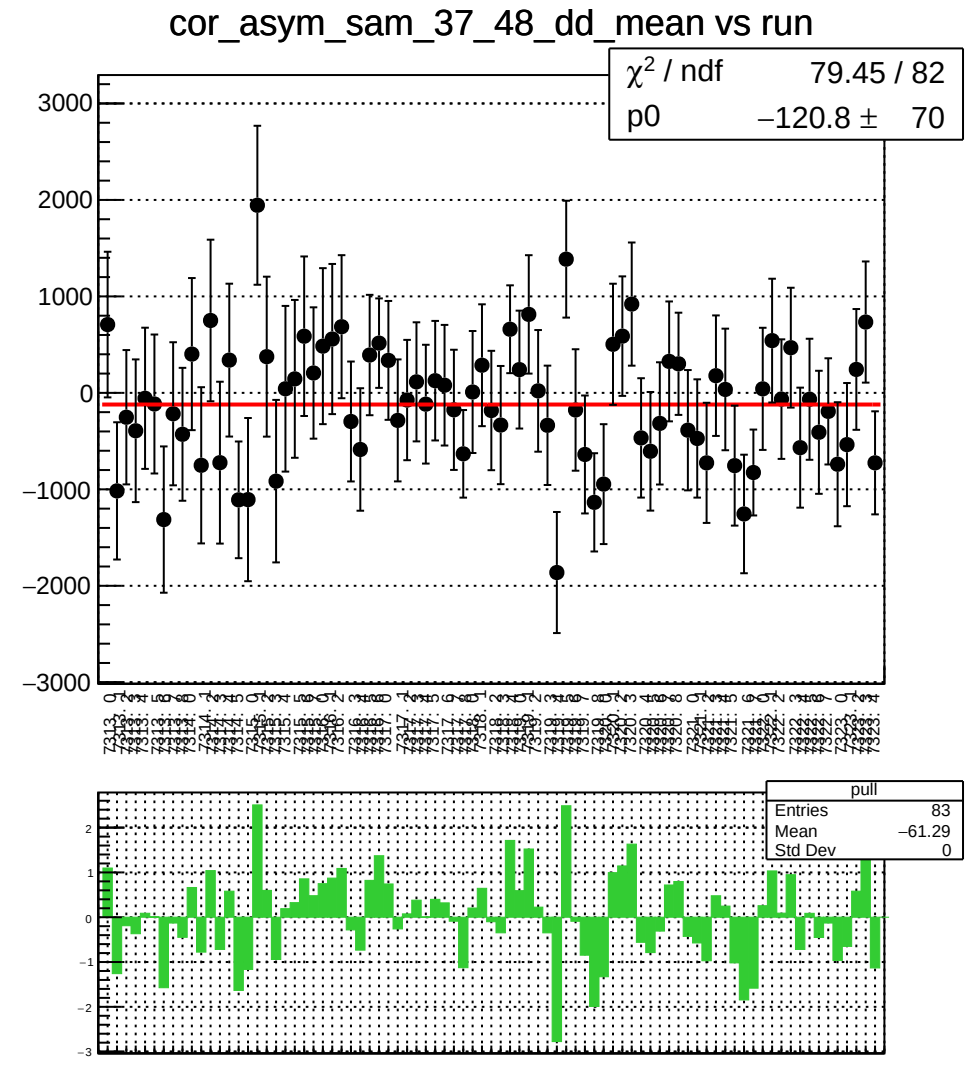

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 79.45 / 82
p0 −120.8 ± 70
pull
Entries 83
Mean −61.25
Std Dev 0
pull1D
Entries 83
Mean 0.01655
Std Dev 0.9782

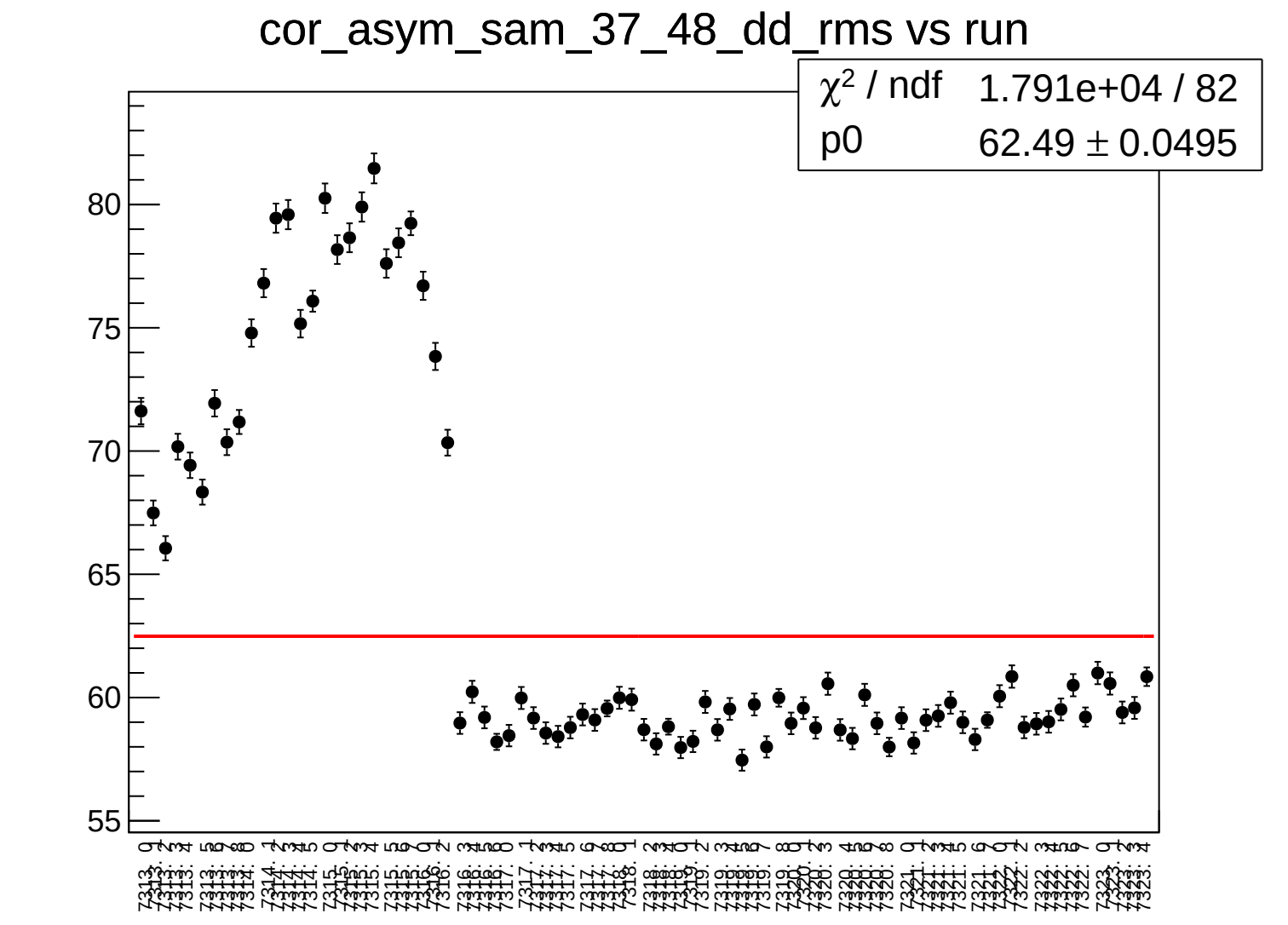

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.791e+04 / 82
p0 62.49 ± 0.0495
80
75
70
65
60
55

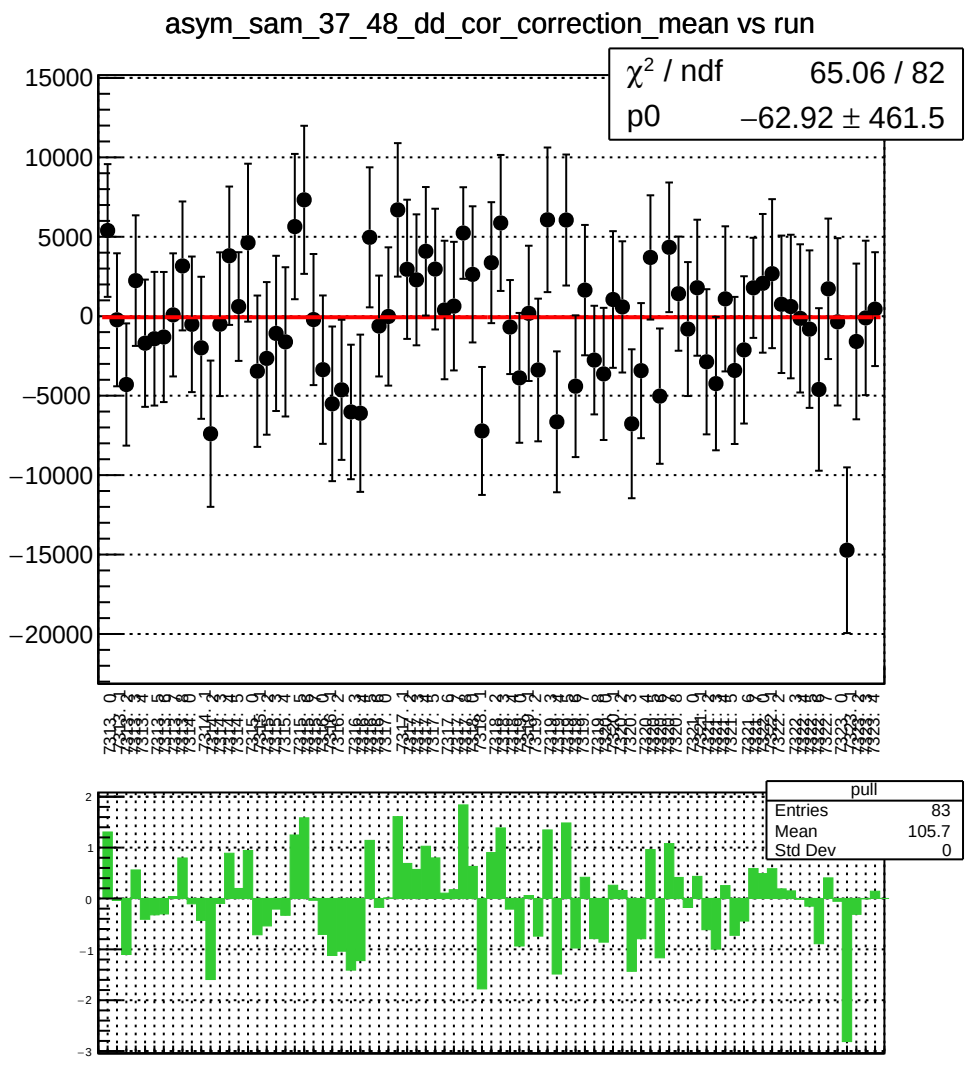

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 65.05 / 82
p0 −62.9 ± 461.5
pull
Entries 83
Mean 105.7
Std Dev 0

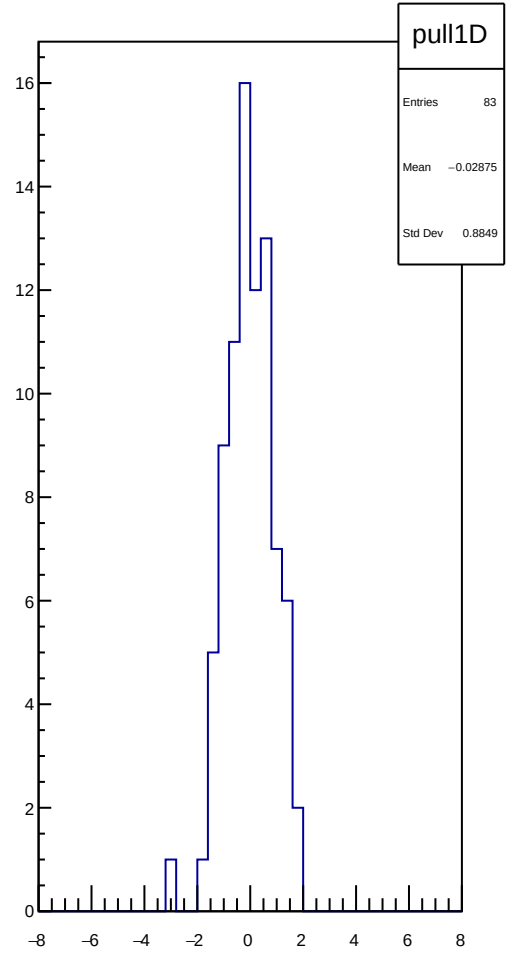

pull1D
Entries 83
Mean −0.02875
Std Dev 0.8849

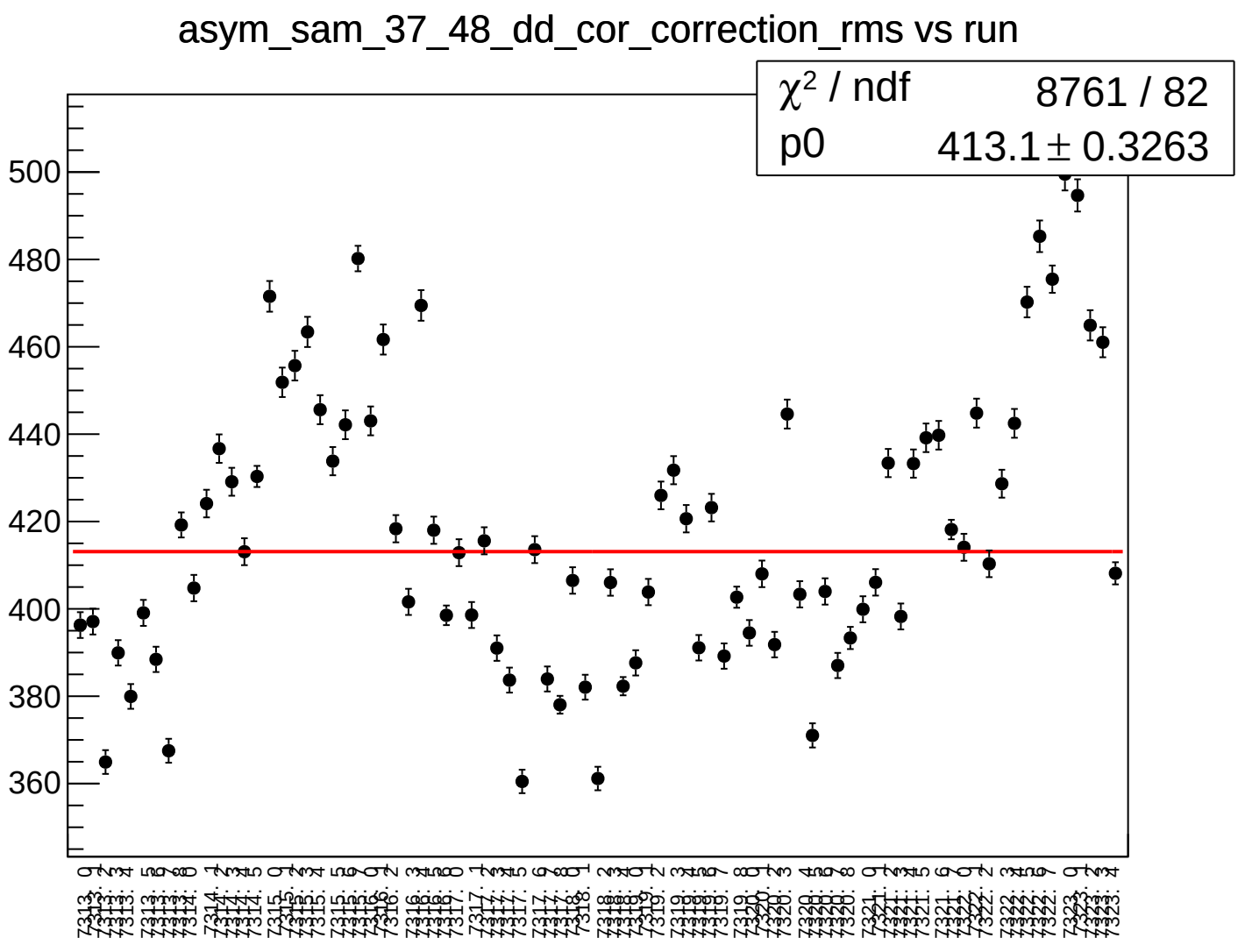

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 8761 / 82
p0 413.1 ± 0.3263
500
480
460
440
420
400
380
360

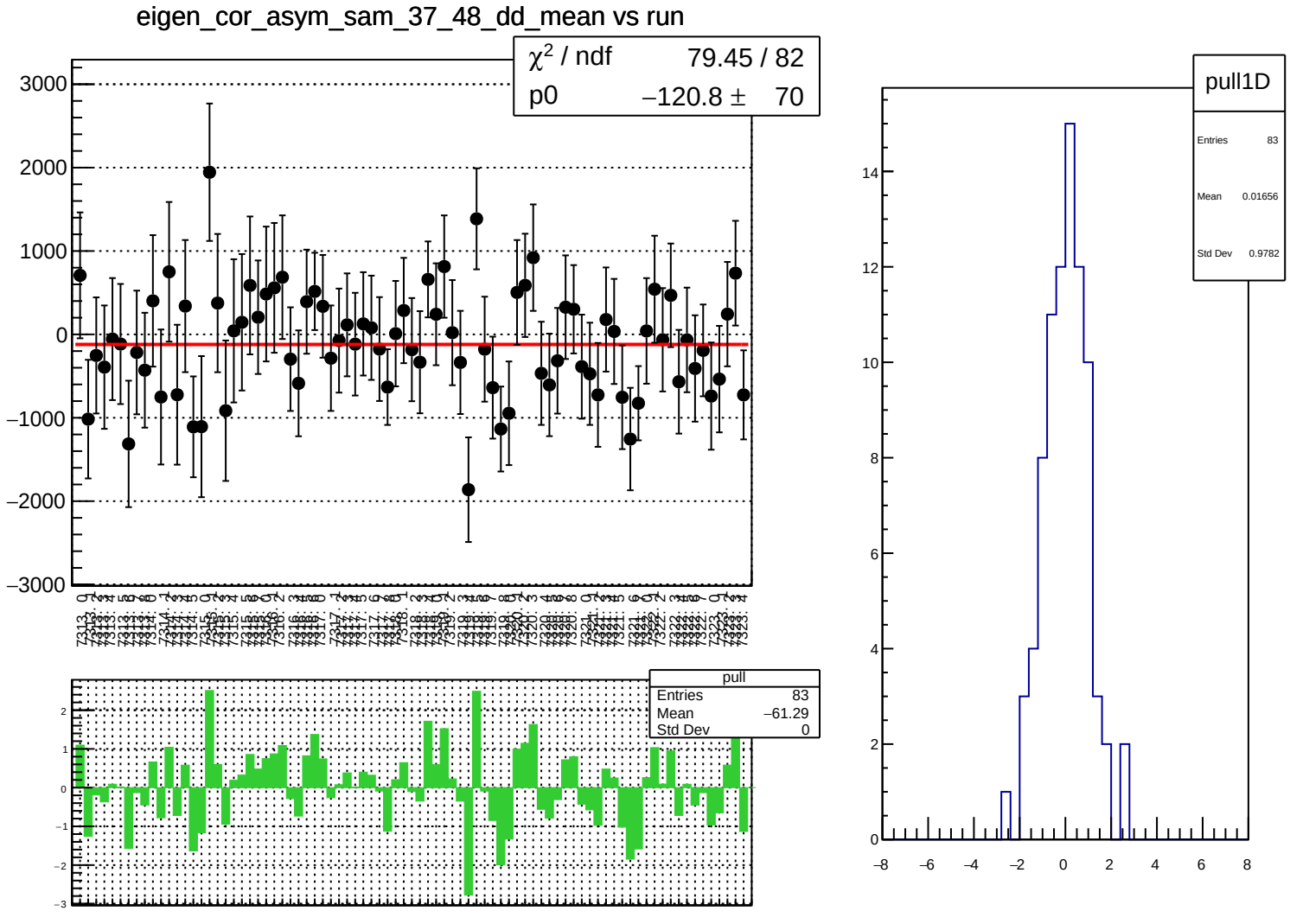

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 79.45 / 82
p0 −120.8 ± 70
pull
Entries 83
Mean −61.29
Std Dev 0
pull1D
Entries 83
Mean 0.01656
Std Dev 0.9782

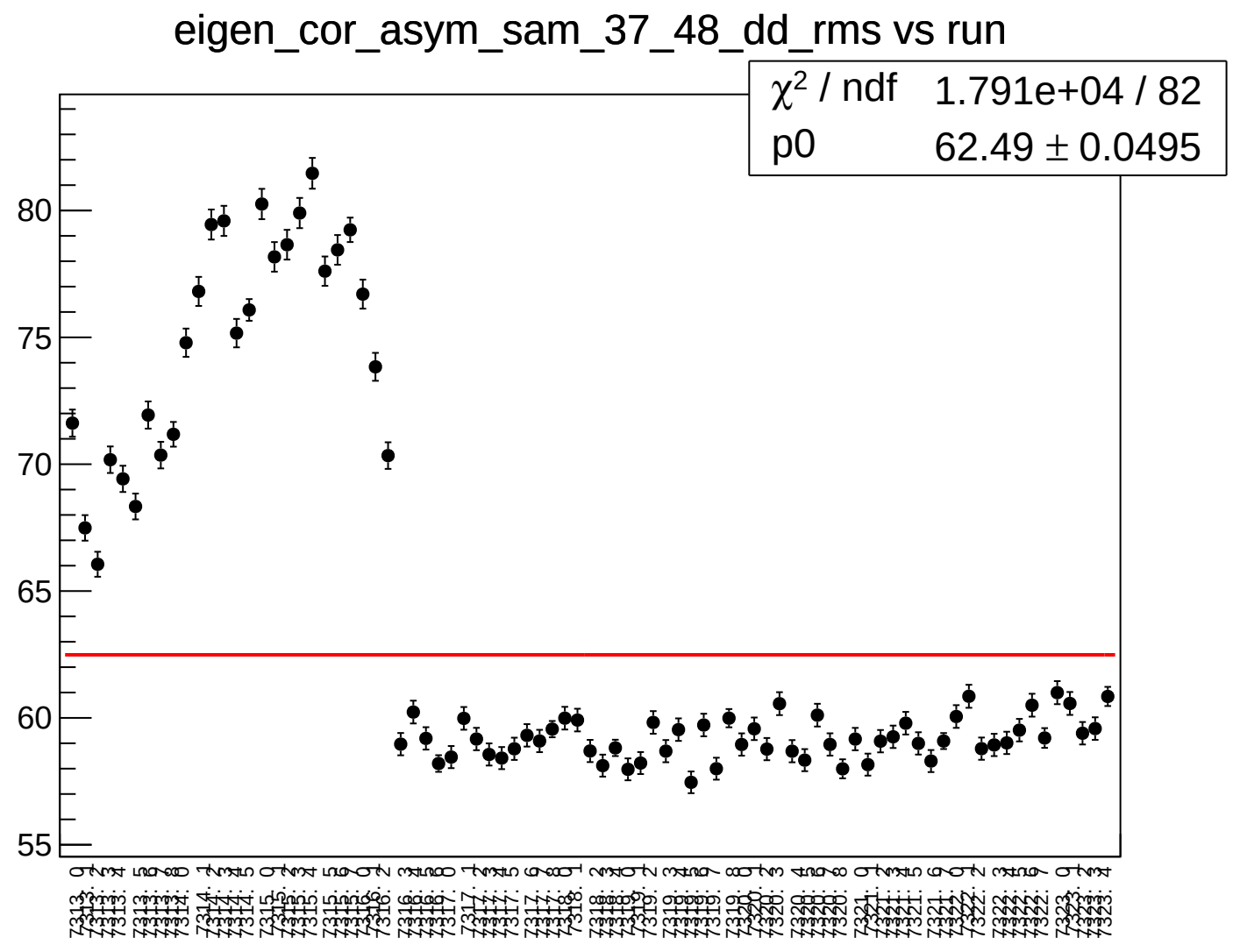

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.791e+04 / 82
p0 62.49 ± 0.0495
80
75
70
65
60
55

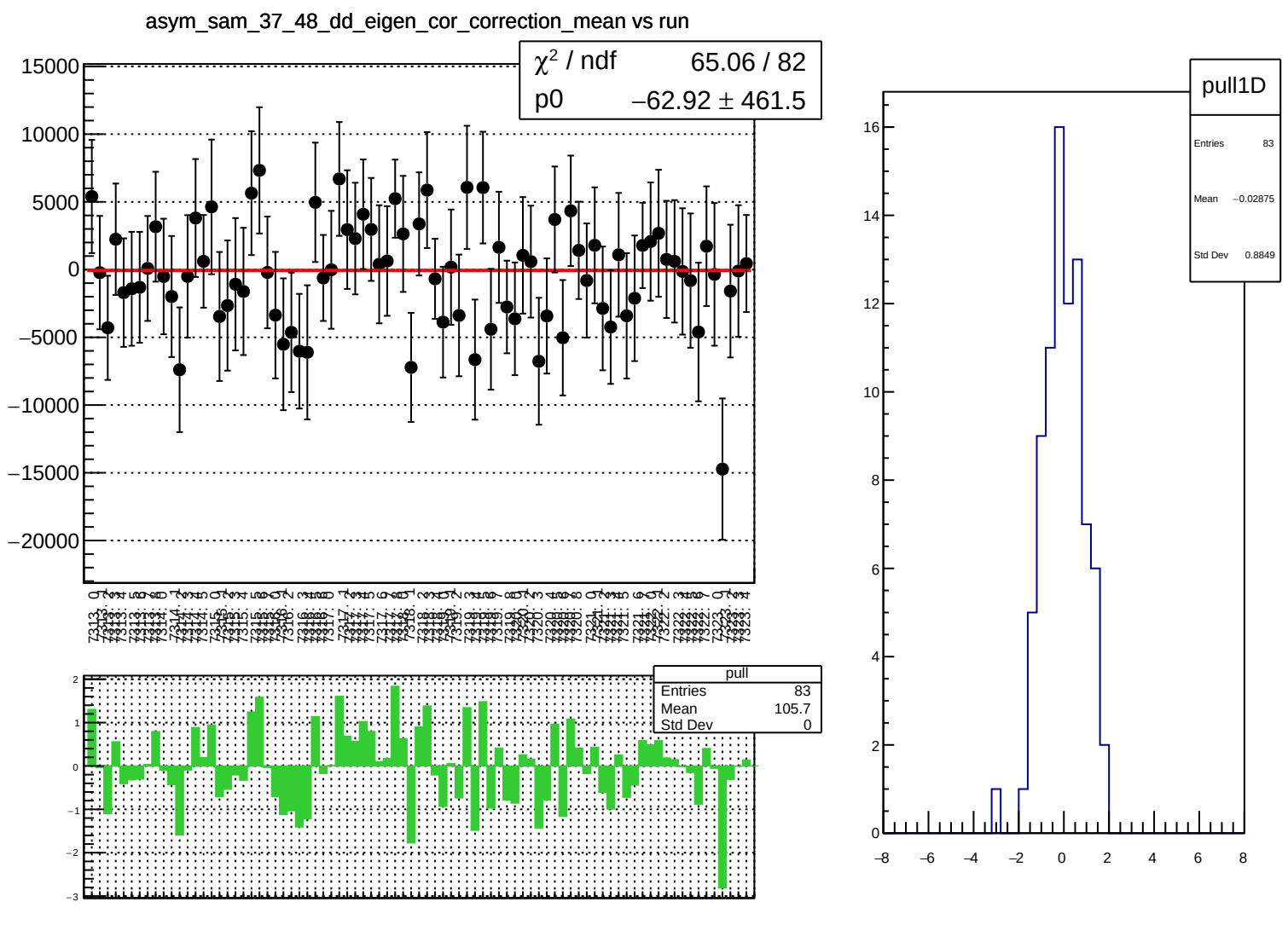

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 65.06 / 82
p0 −62.92 ± 461.5
pull
Entries 83
Mean 105.7
Std Dev 0

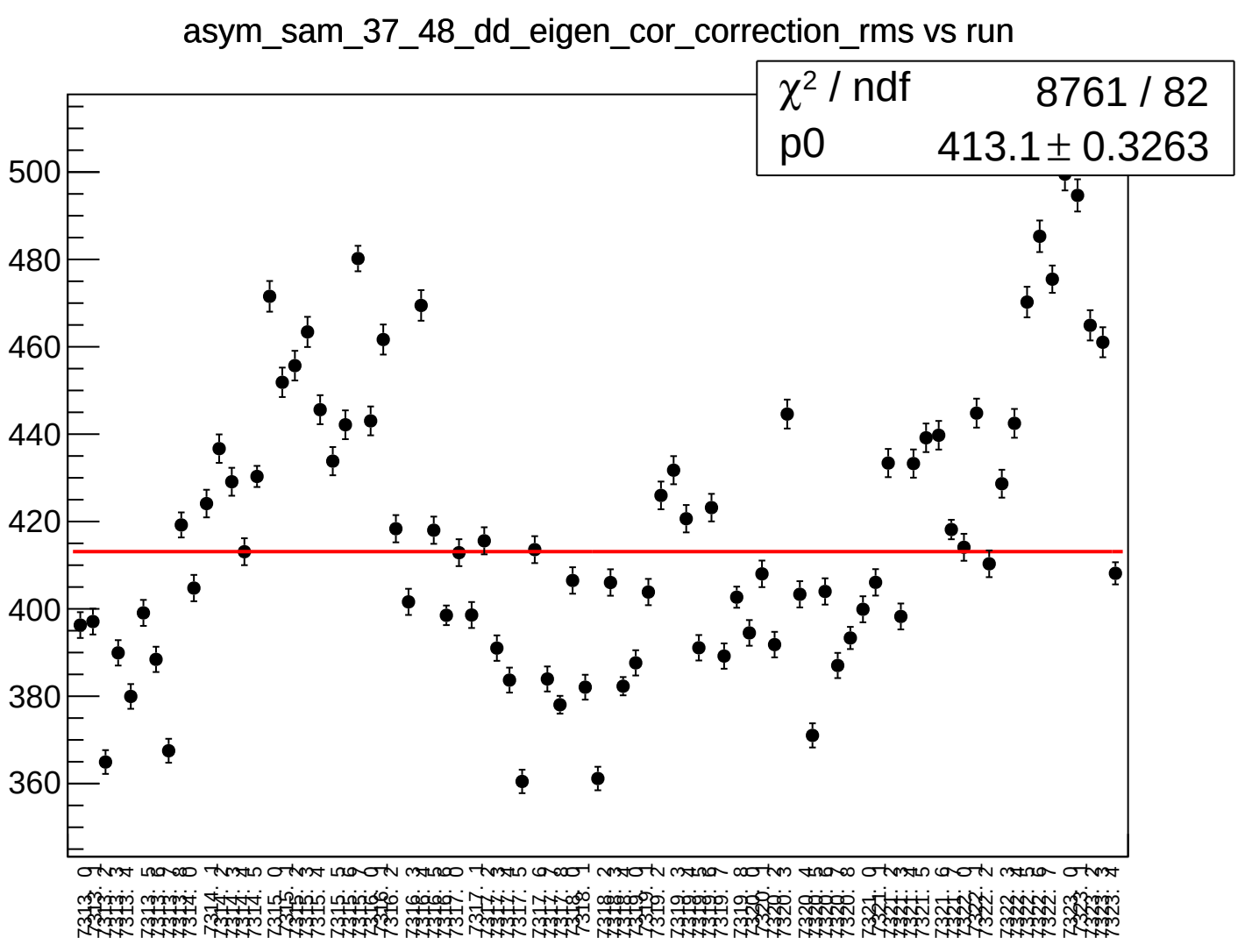

pull1D
Entries 83
Mean −0.02875
Std Dev 0.8849

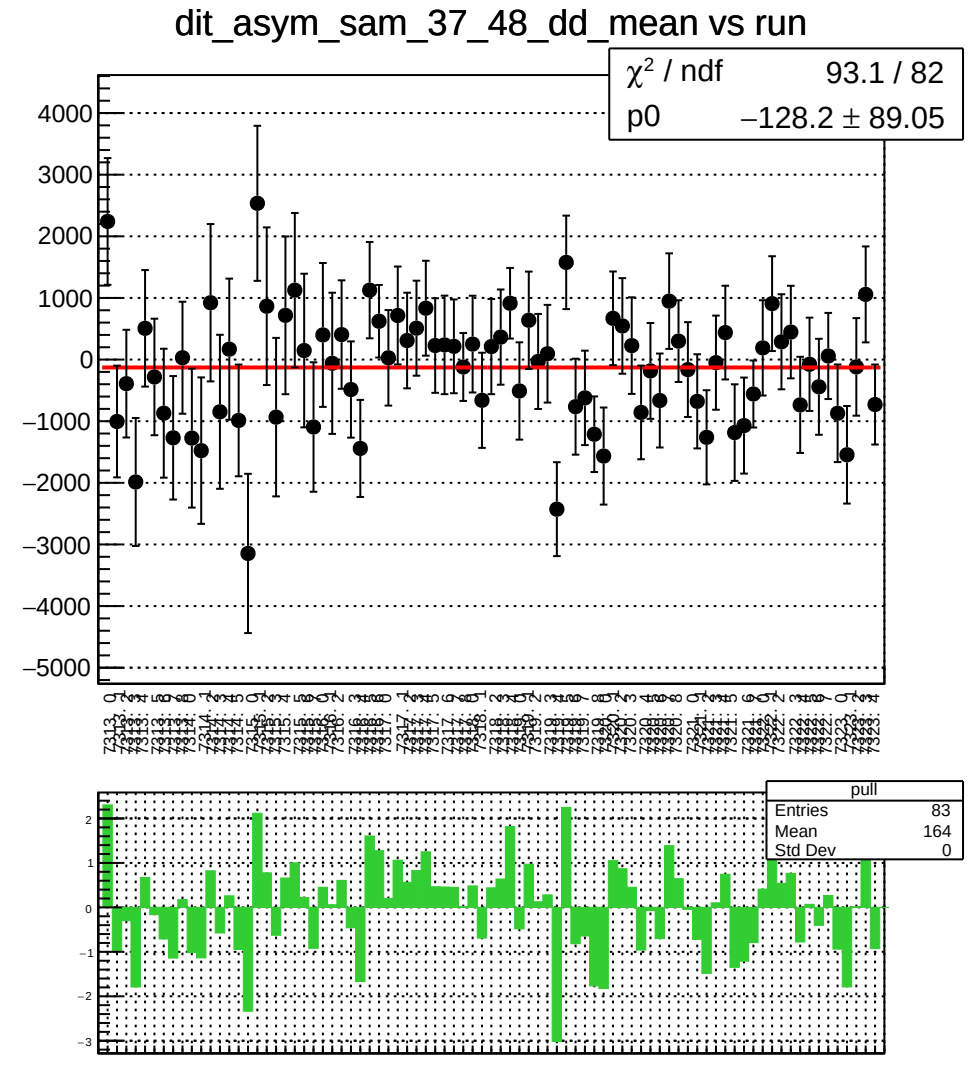

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 8761 / 82
p0 413.1 ± 0.3263
500
480
460
440
420
400
380
360

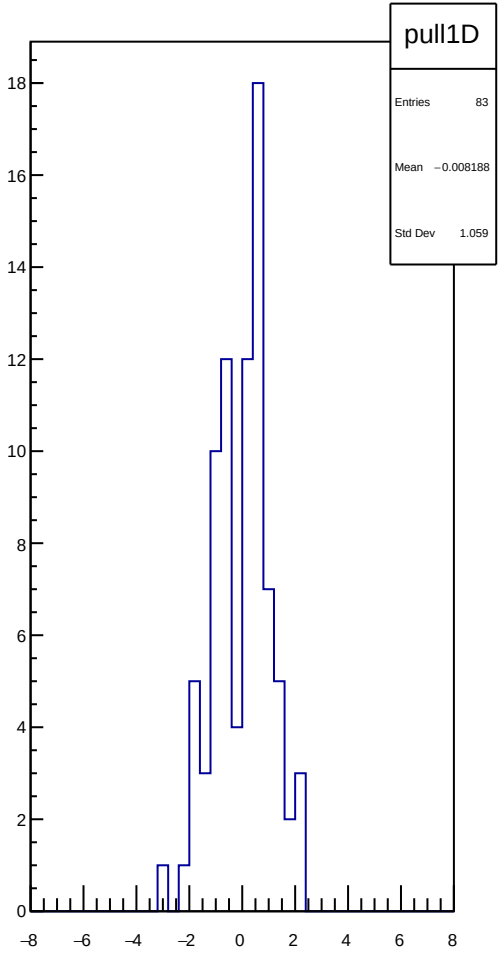

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 79.45 / 82
p0 −120.8 ± 70
pull
Entries 83
Mean −61.29
Std Dev 0
pull1D
Entries 83
Mean 0.01656
Std Dev 0.9782

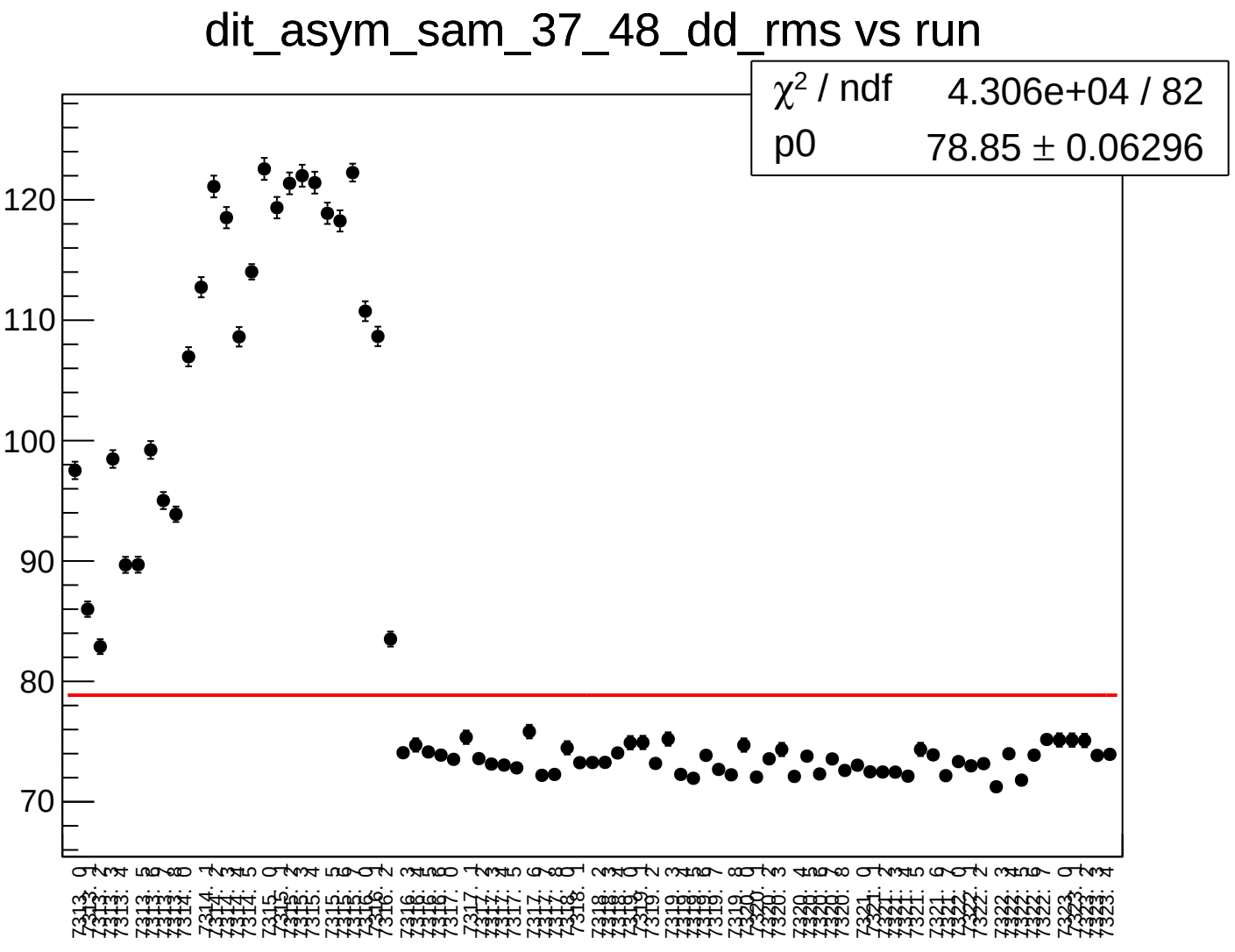

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.791e+04 / 82
p0 62.49 ± 0.0495
80
75
70
65
60
55

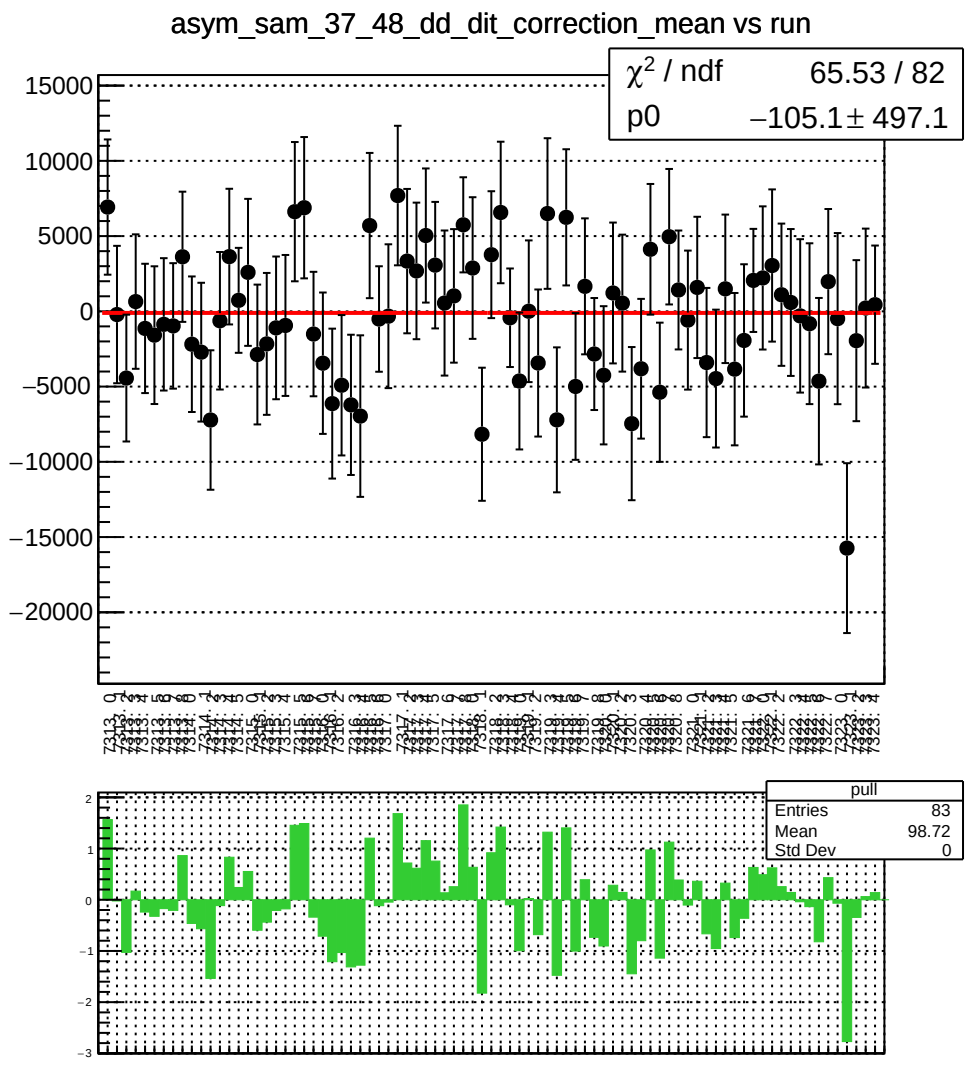

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.06 / 82
p0 −62.92 ± 461.5
pull
Entries 83
Mean 105.7
Std Dev 0
pull1D
Entries 83
Mean −0.02875
Std Dev 0.8849

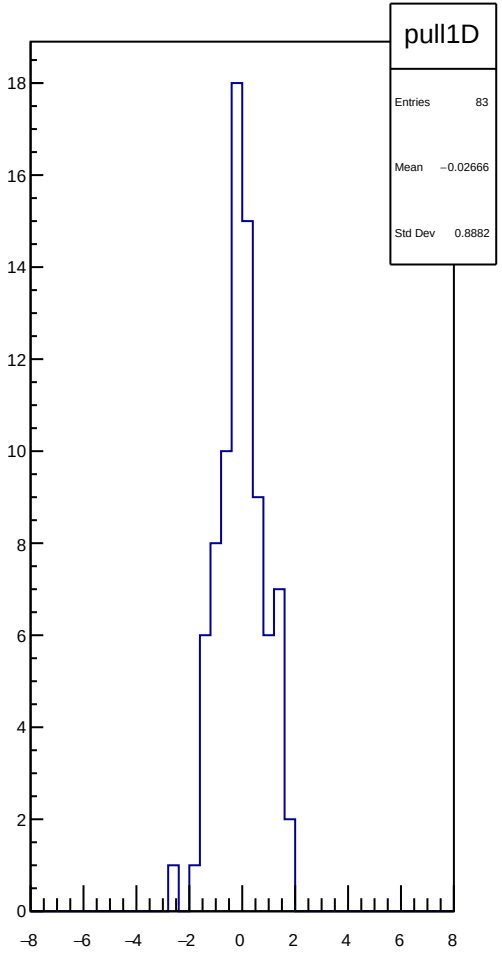

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8761 / 82
p0 413.1 ± 0.3263
500
480
460
440
420
400
380
360

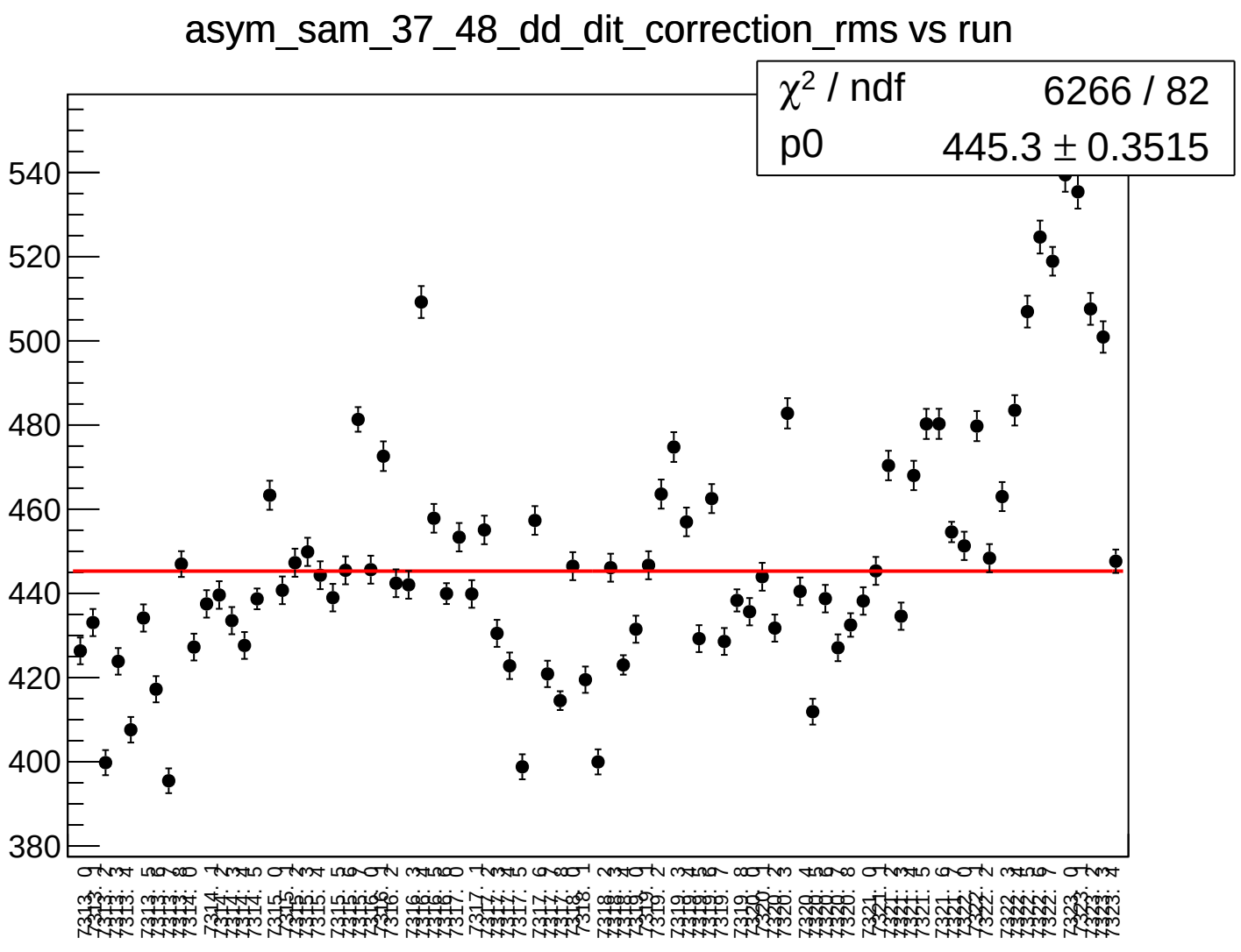

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.1 / 82
p0 −128.2 ± 89.05
pull
Entries 83
Mean 164
Std Dev 0

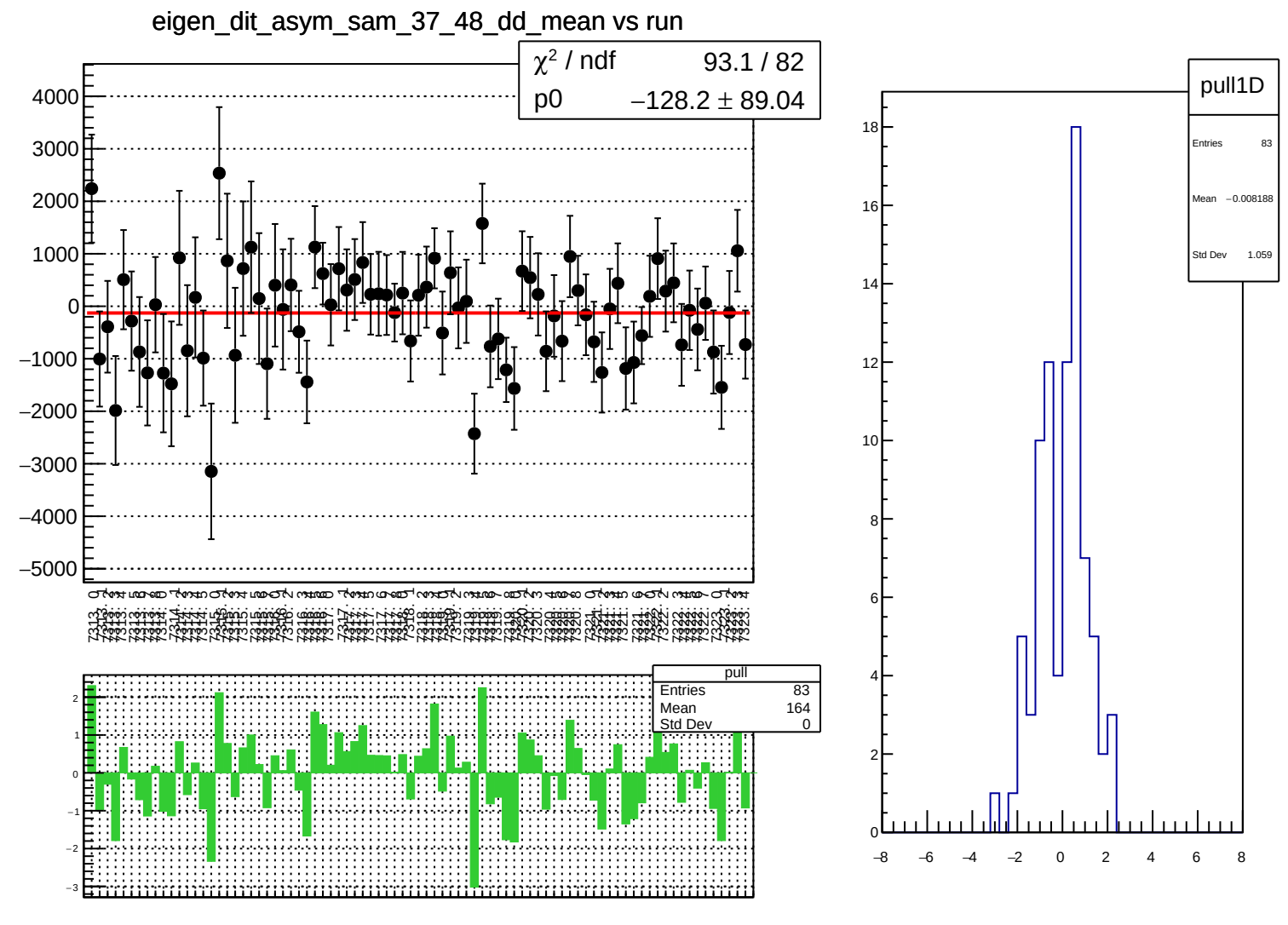

pull1D
Entries 83
Mean −0.008188
Std Dev 1.059

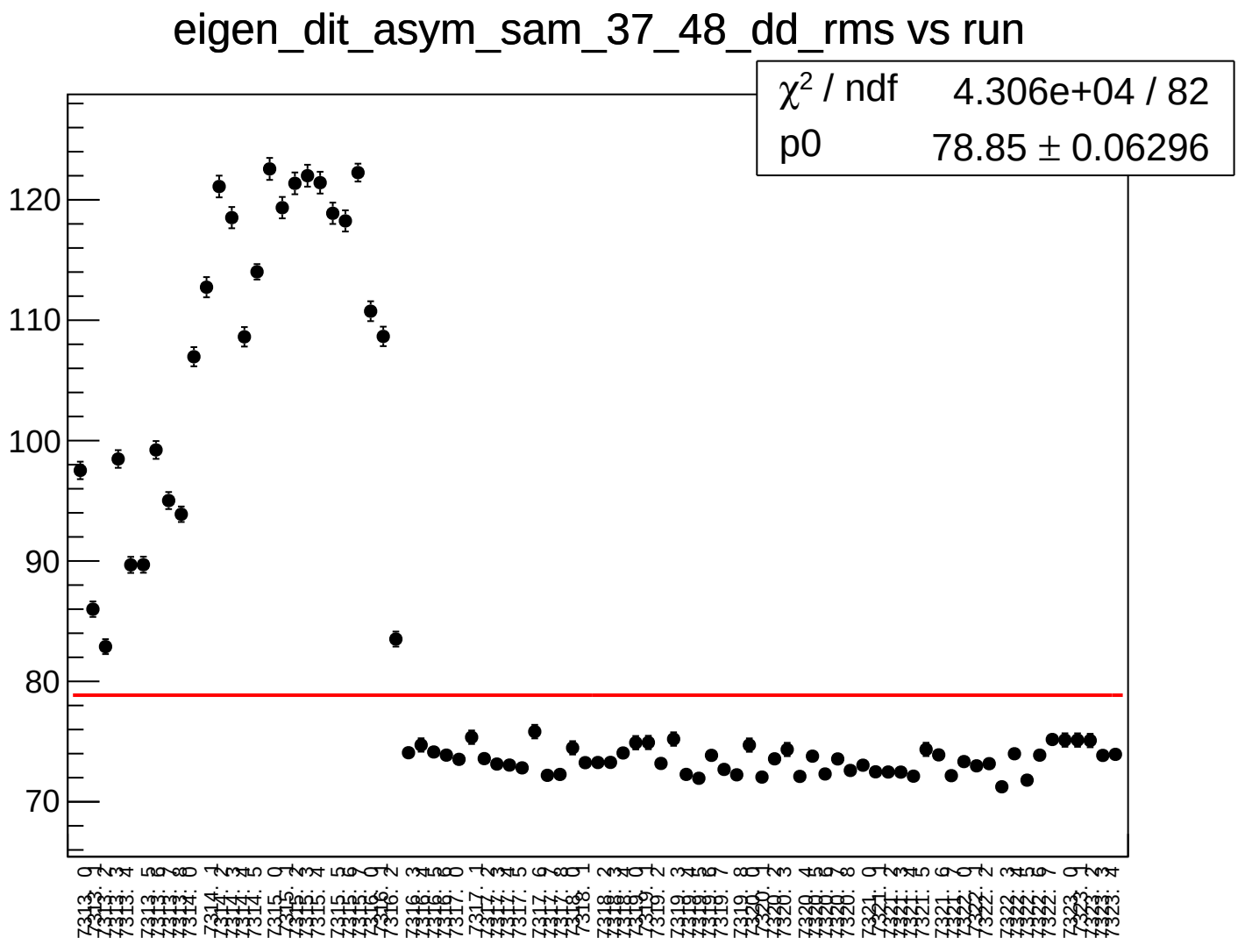

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4.306e+04 / 82
p0 78.85 ± 0.06296
120
110
100
90
80
70

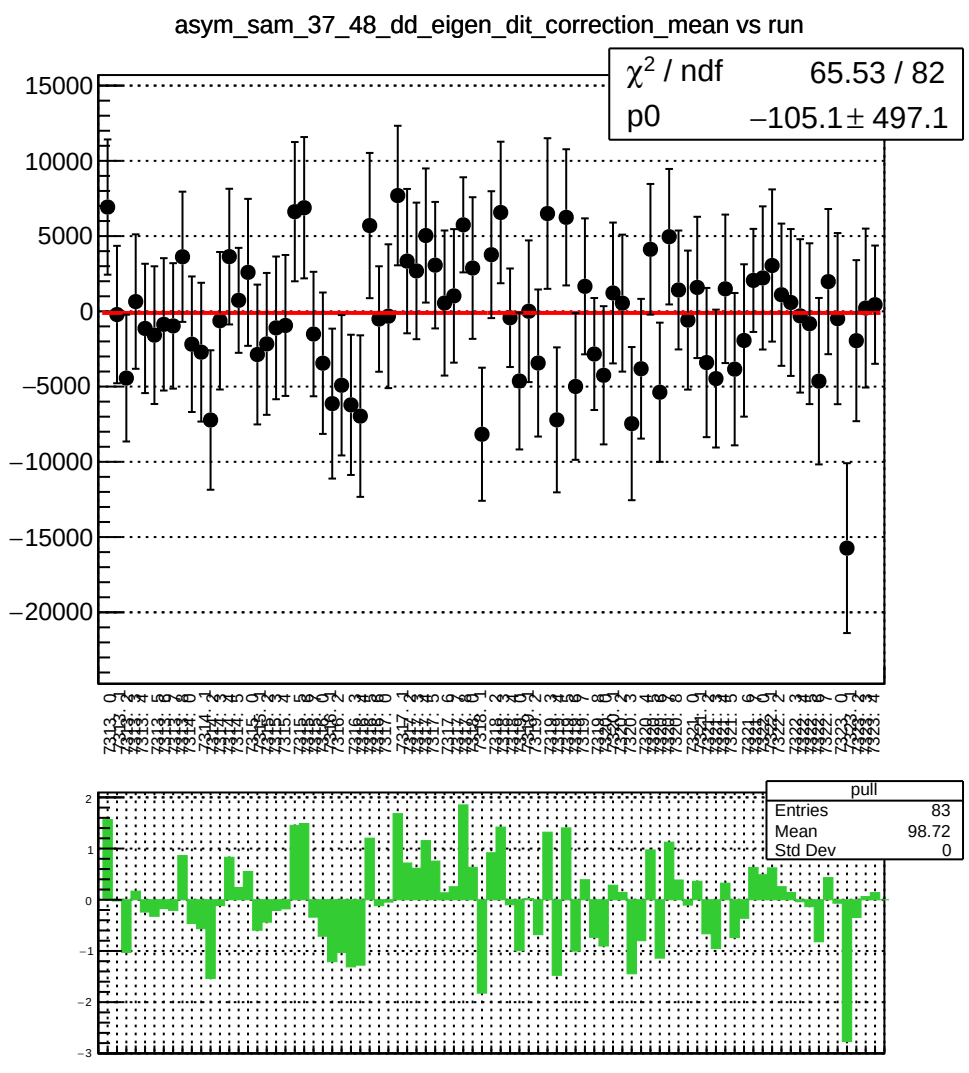

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 65.53 / 82
p0 −105.1 ± 497.1
pull
Entries 83
Mean 98.72
Std Dev 0

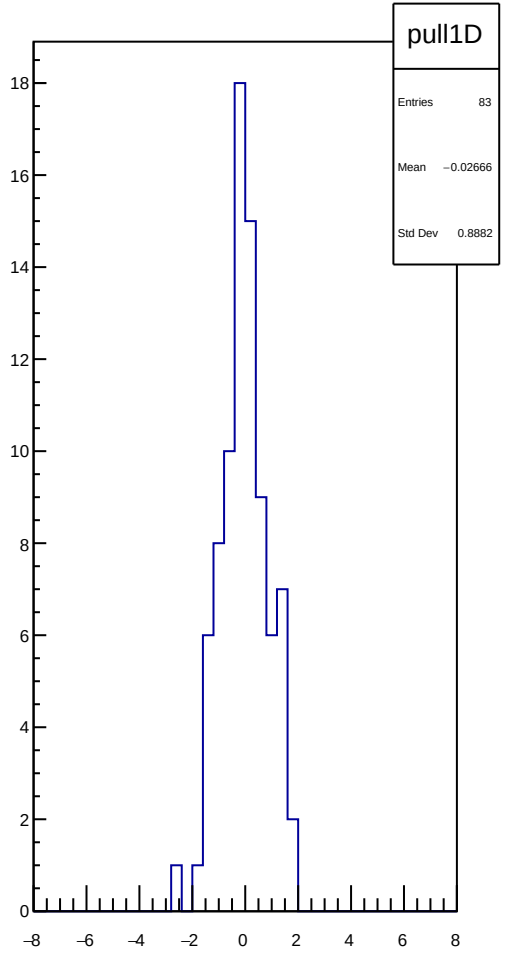

pull1D
Entries 83
Mean −0.02666
Std Dev 0.8882

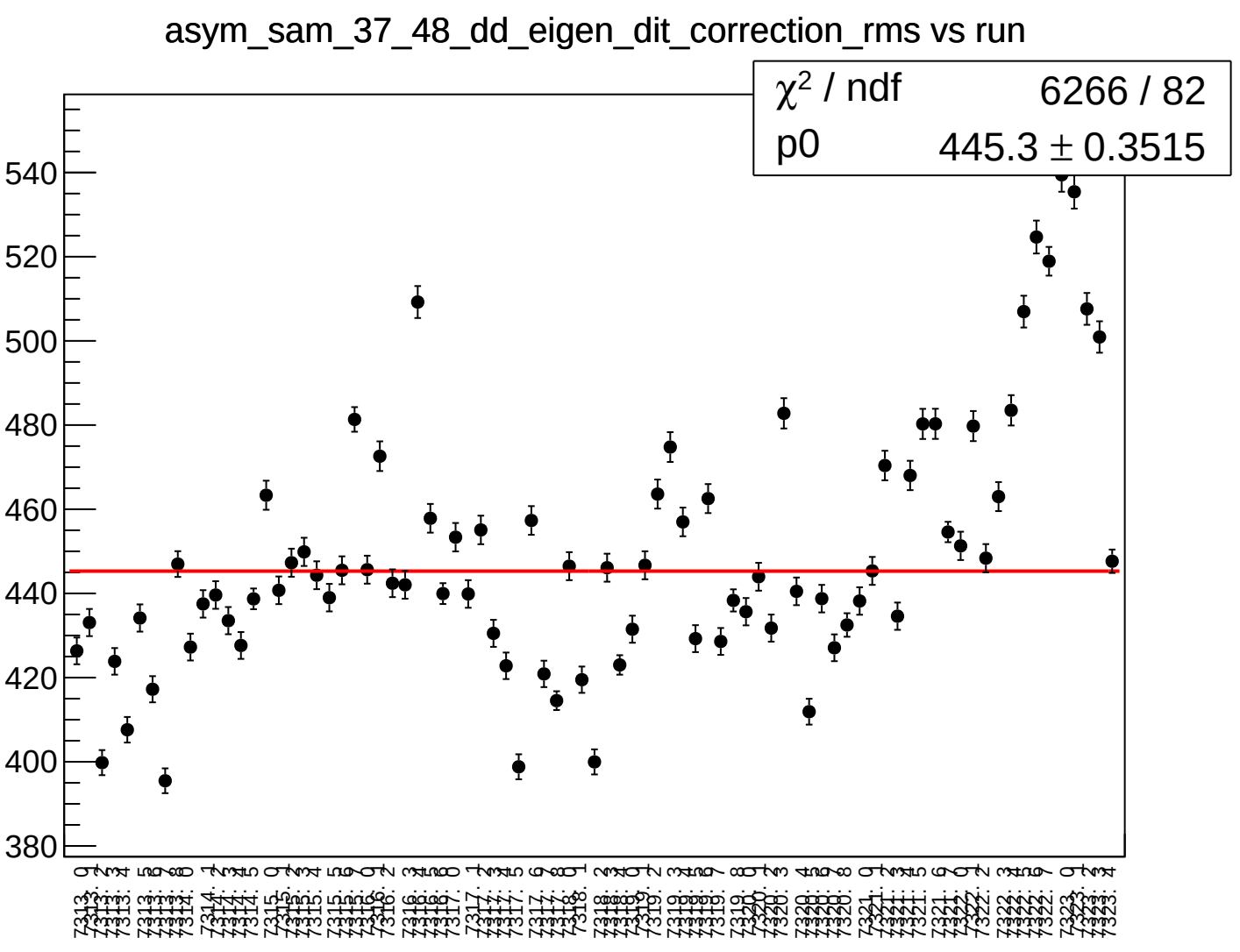

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 6266 / 82
p0 445.3 ± 0.3515
540
520
500
480
460
440
420
400
380

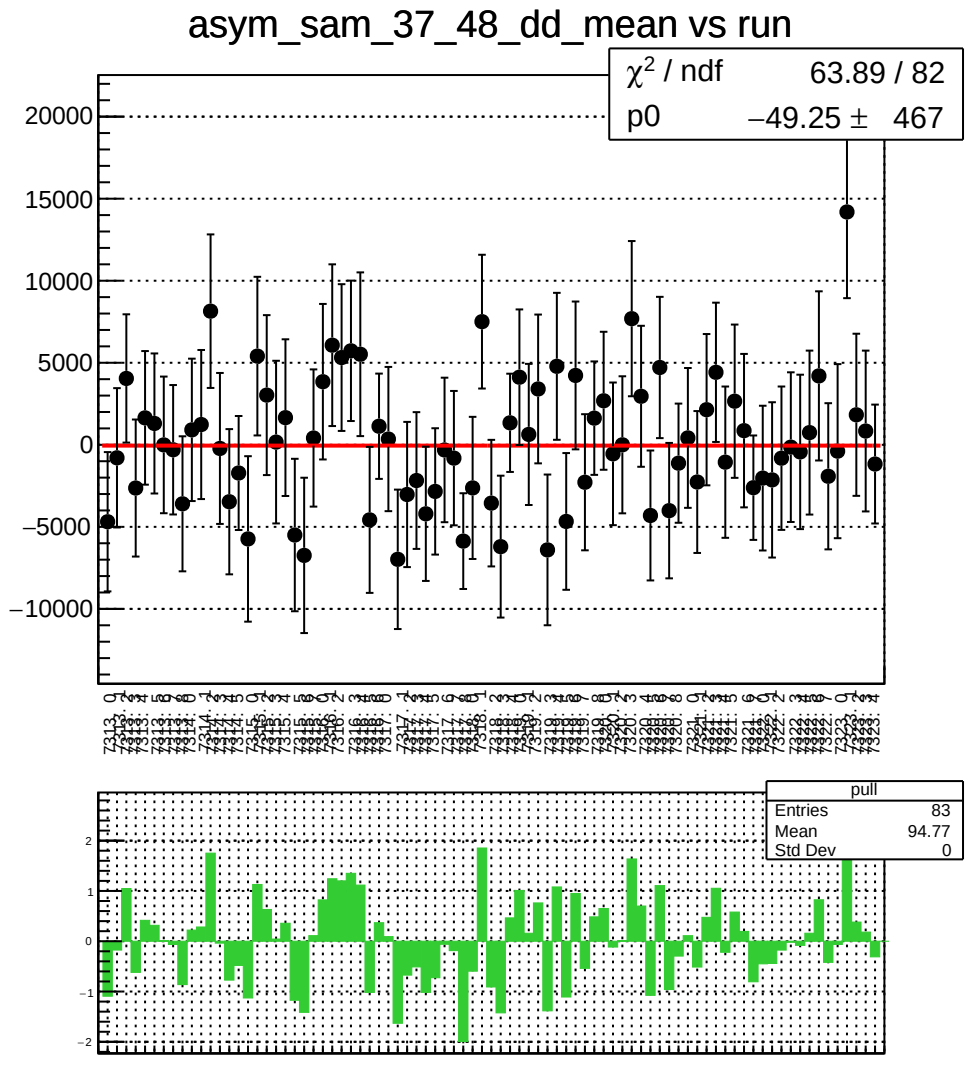

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.1 / 82
p0 −128.2 ± 89.04
pull
Entries 83
Mean 164
Std Dev 0
pull1D
Entries 83
Mean −0.008188
Std Dev 1.059

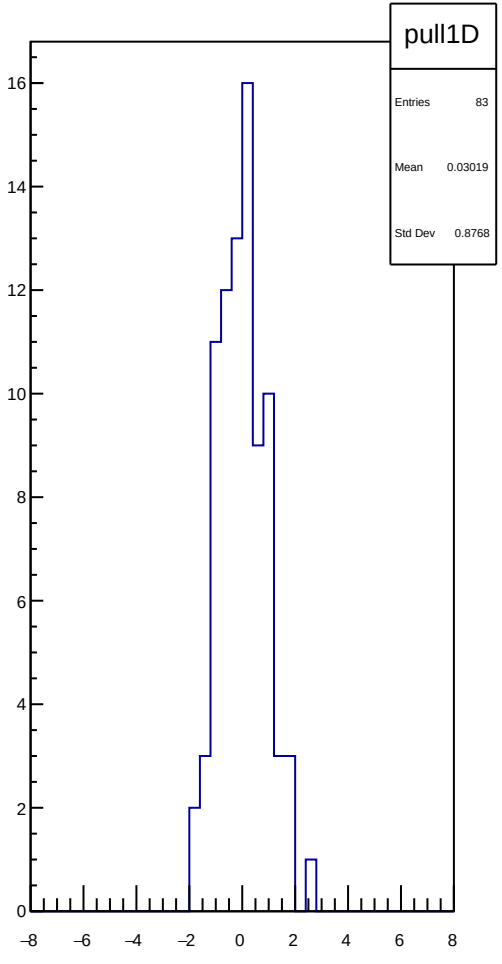

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4.306e+04 / 82
p0 78.85 ± 0.06296
120
110
100
90
80
70

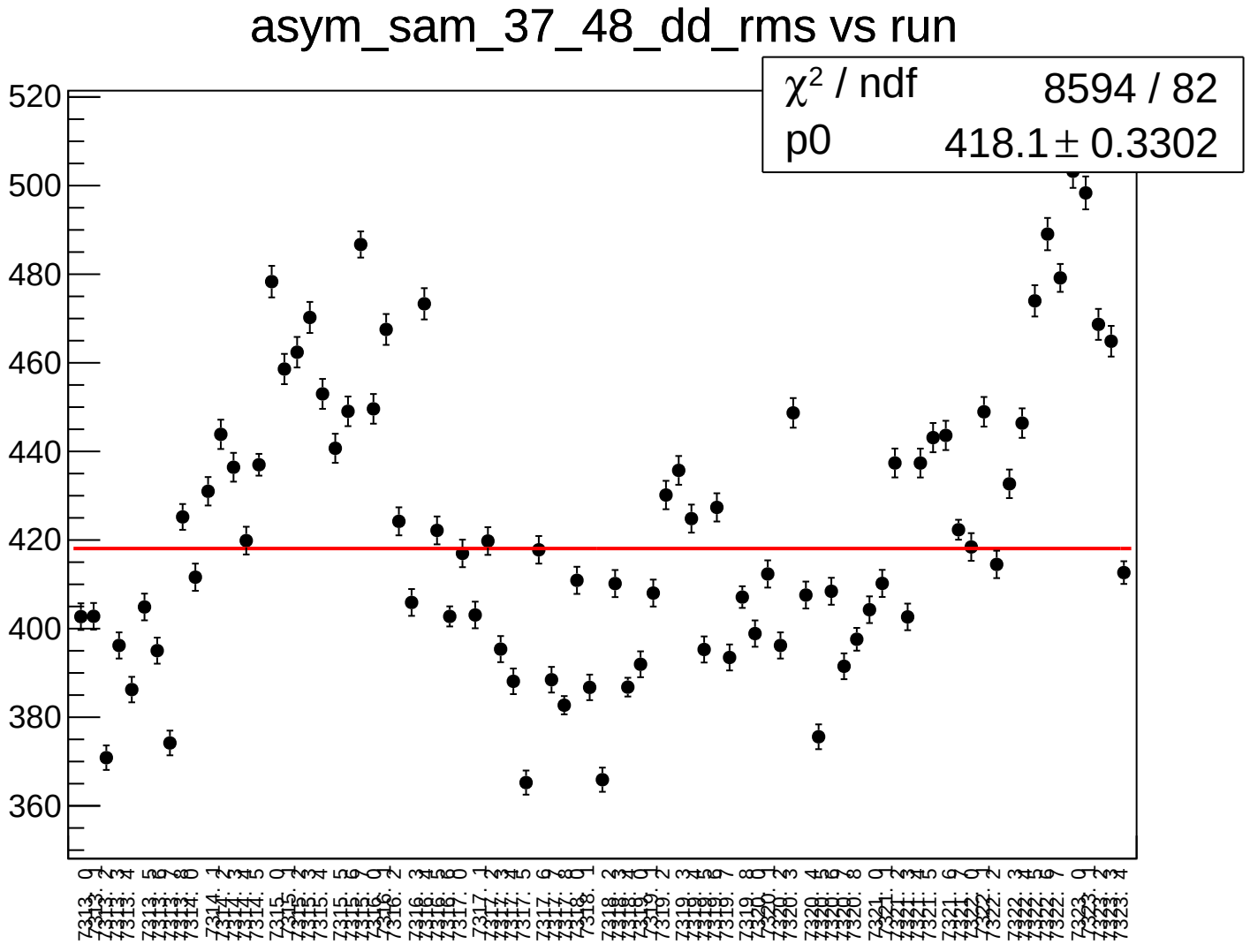

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.53 / 82
p0 −105.1 ± 497.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 98.72
Std Dev 0
2
1
0
−1
−2
−3

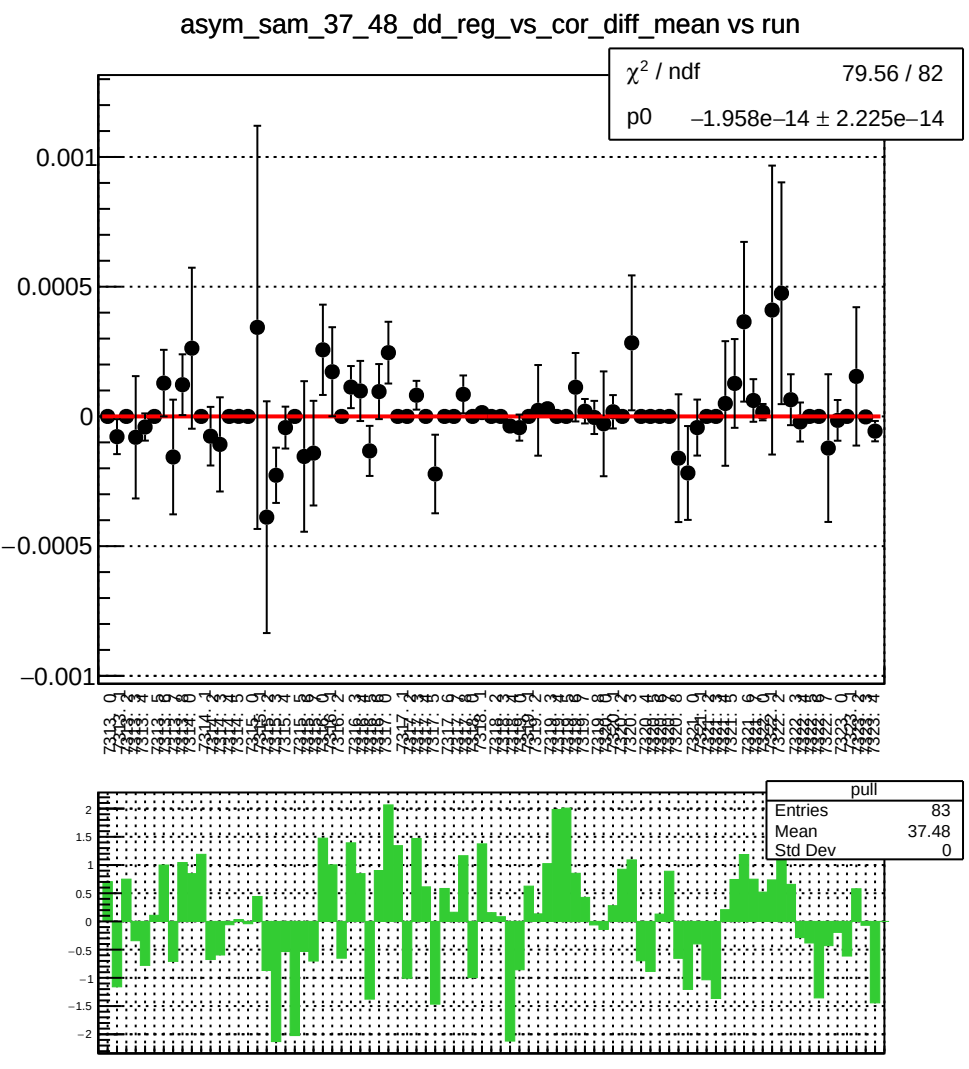

pull1D
Entries 83
Mean −0.02666
Std Dev 0.8882
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

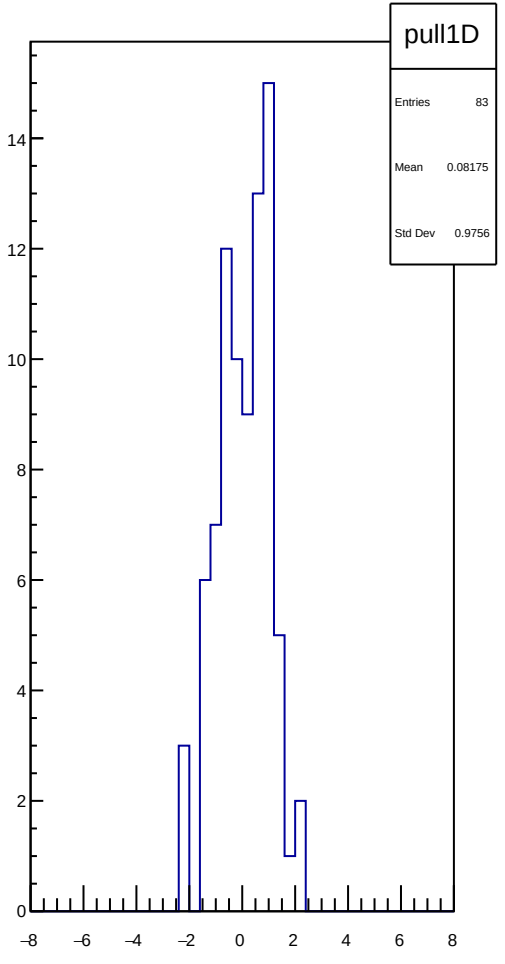

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6266 / 82
p0 445.3 ± 0.3515
540
520
500
480
460
440
420
400
380

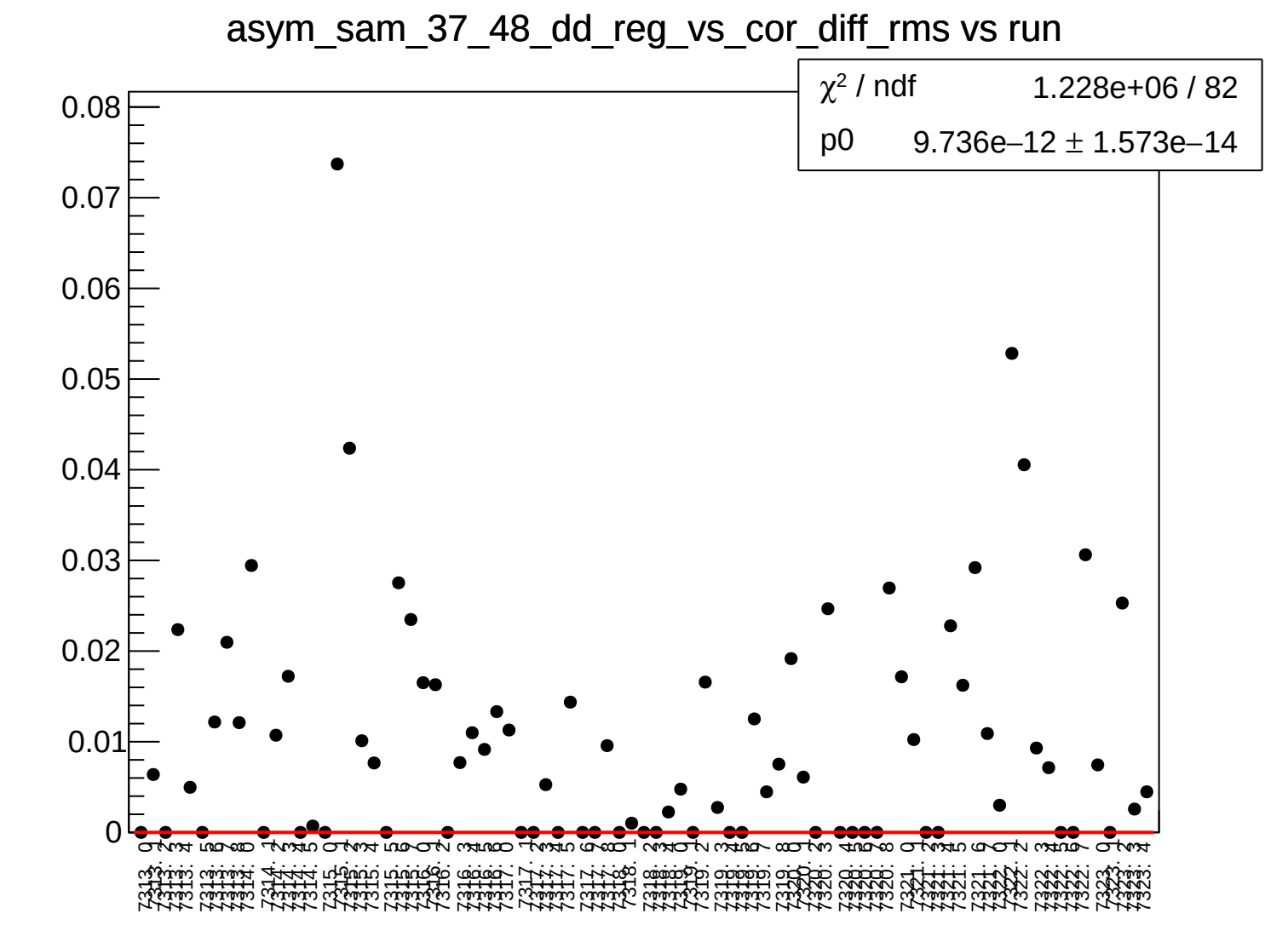

asym_sam_37_48_dd_mean vs run
χ² / ndf 63.89 / 82
p0 −49.25 ± 467
pull
Entries 83
Mean 94.77
Std Dev 0

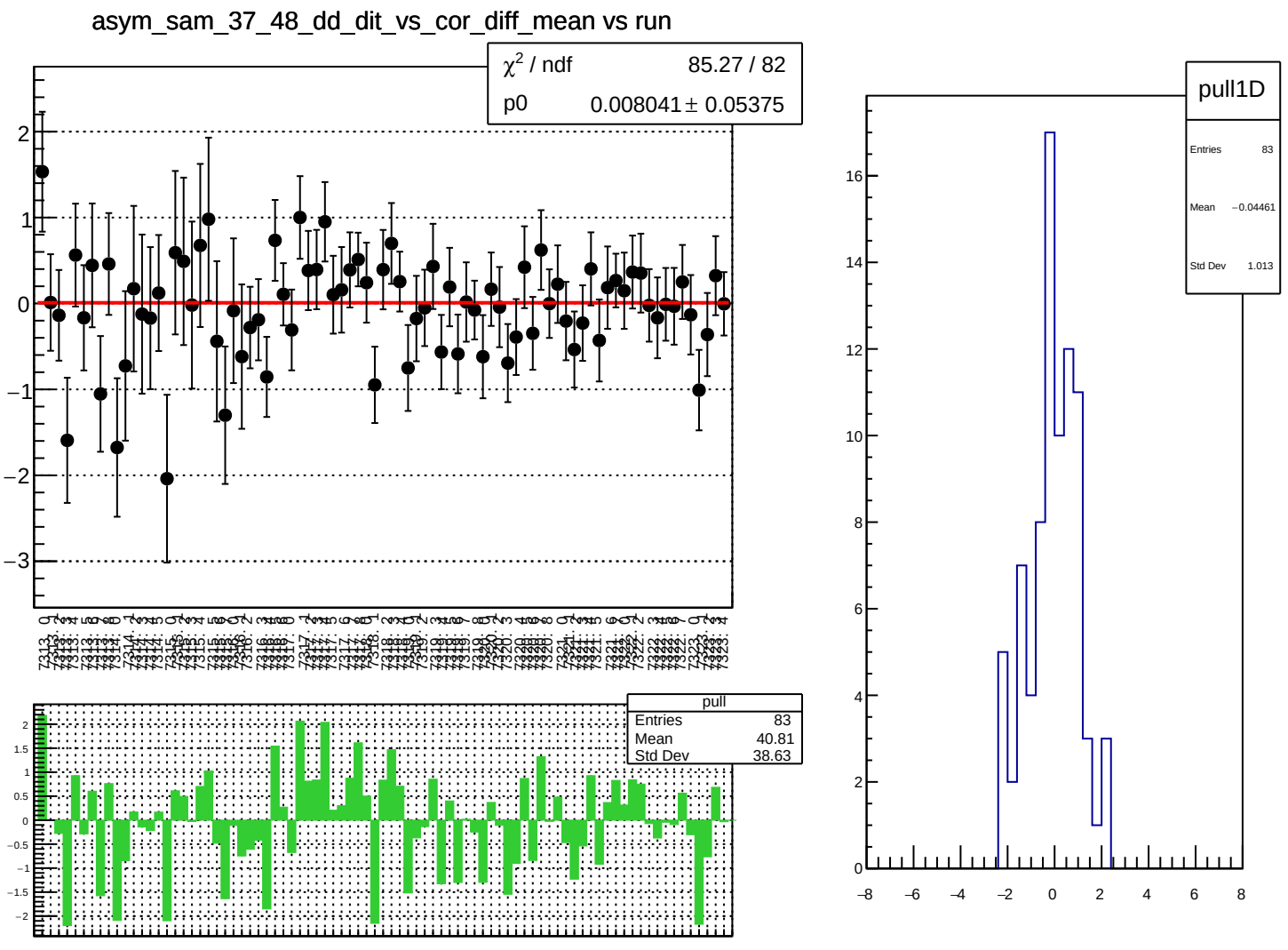

pull1D
Entries 83
Mean 0.03019
Std Dev 0.8768

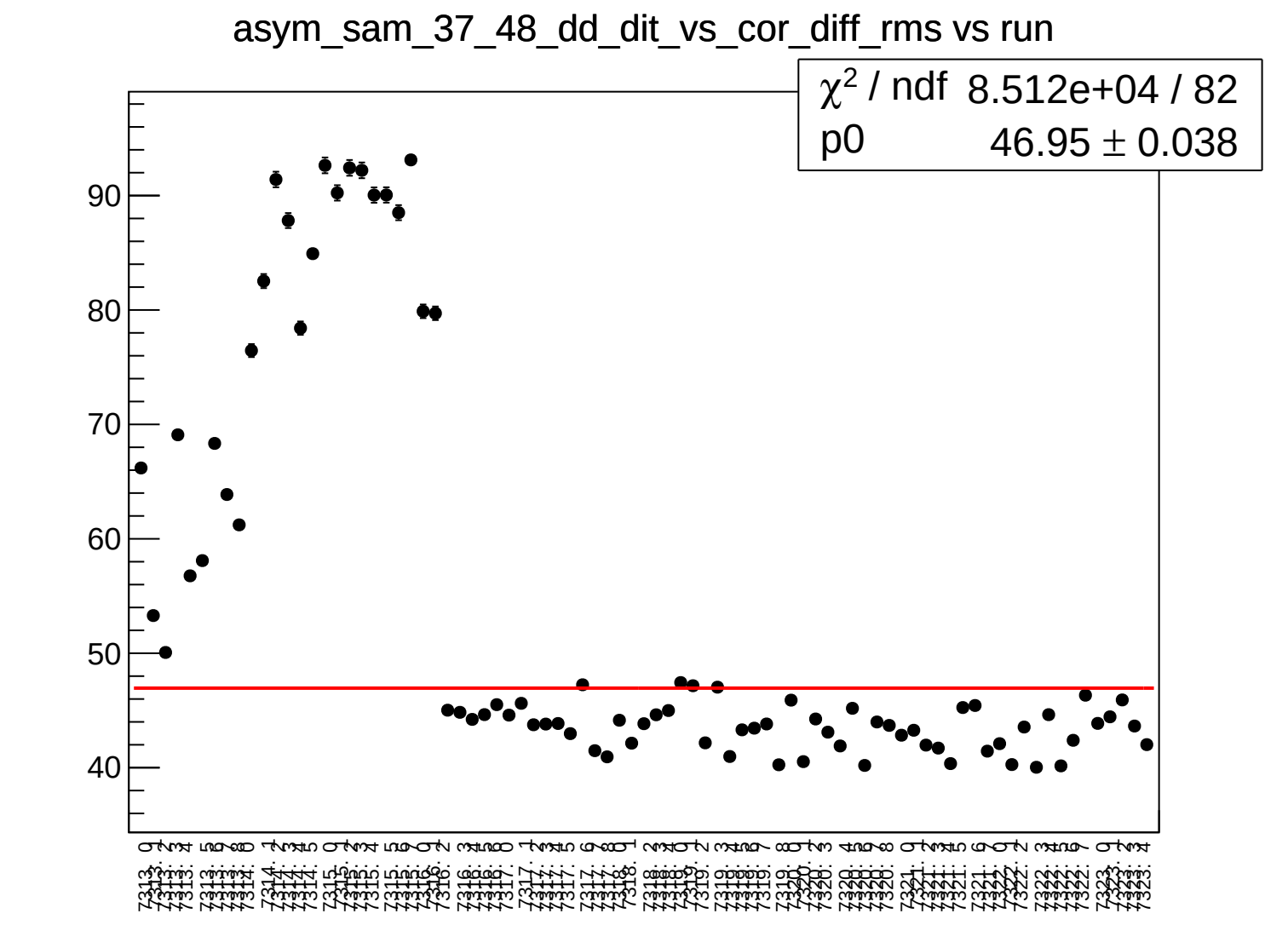

asym_sam_37_48_dd_rms vs run
χ² / ndf 8594 / 82
p0 418.1 ± 0.3302
520
500
480
460
440
420
400
380
360

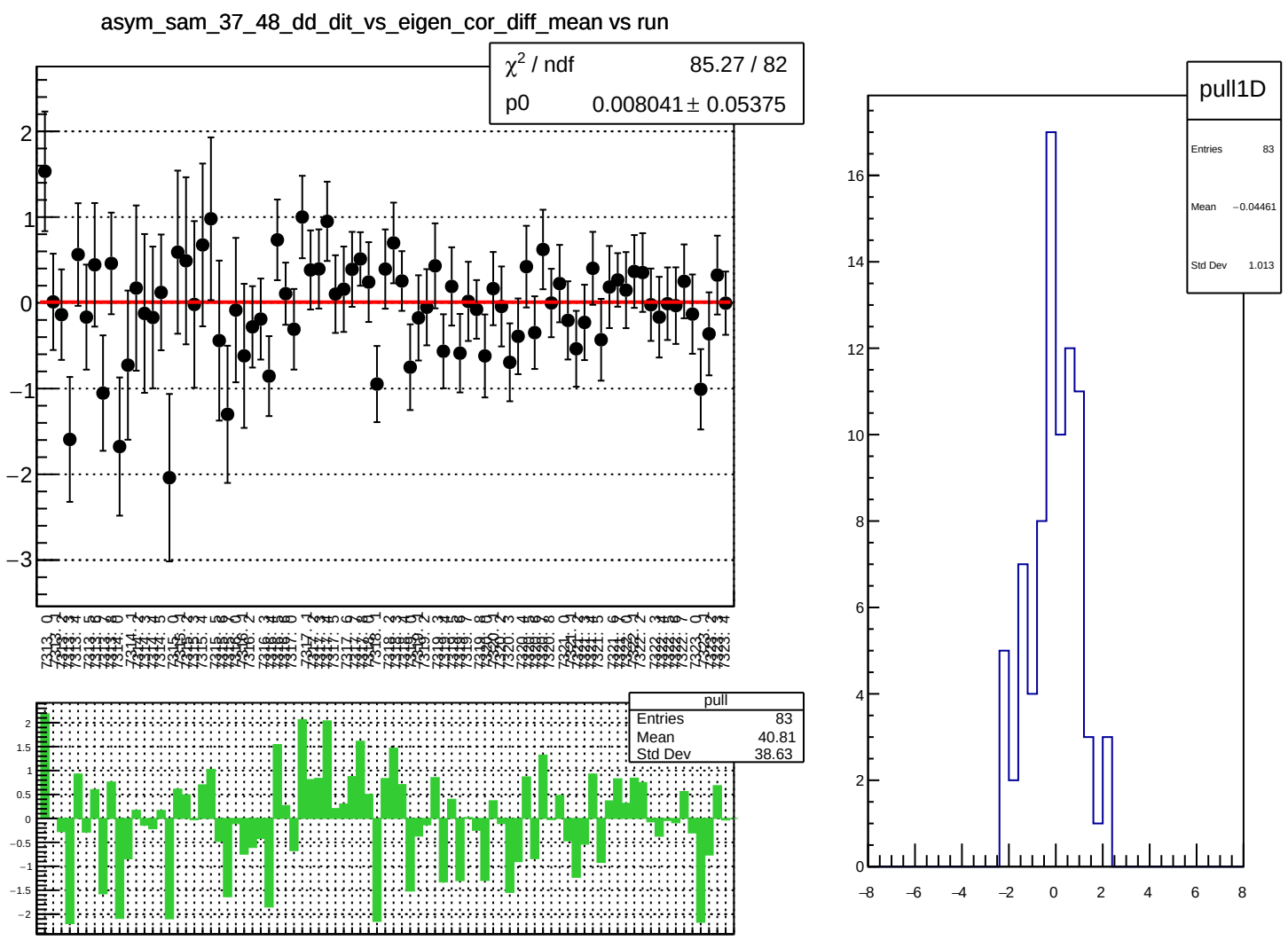

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.56 / 82
p0 −1.958e−14 ± 2.225e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 37.48
Std Dev 0

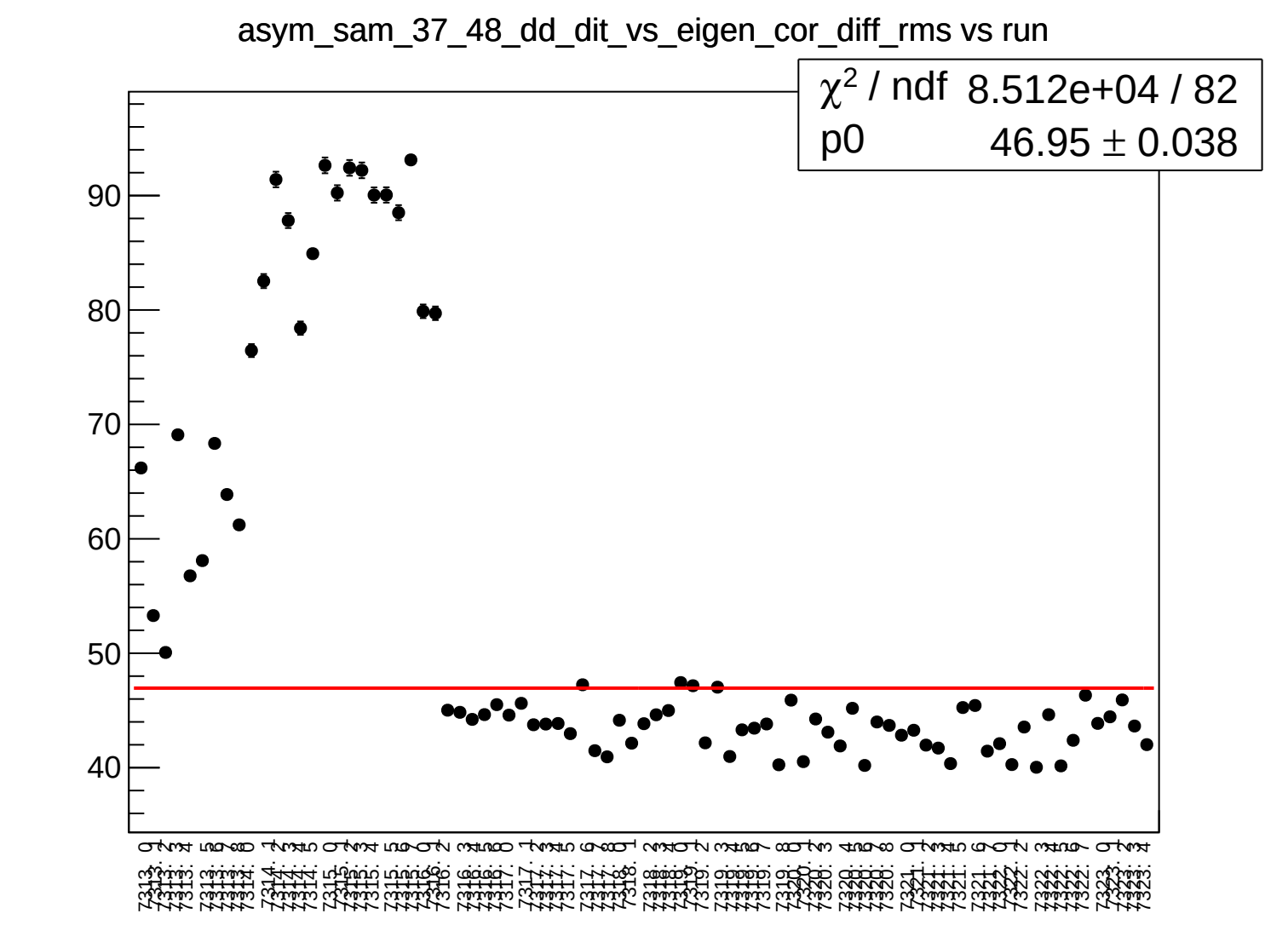

pull1D
Entries 83
Mean 0.08175
Std Dev 0.9756

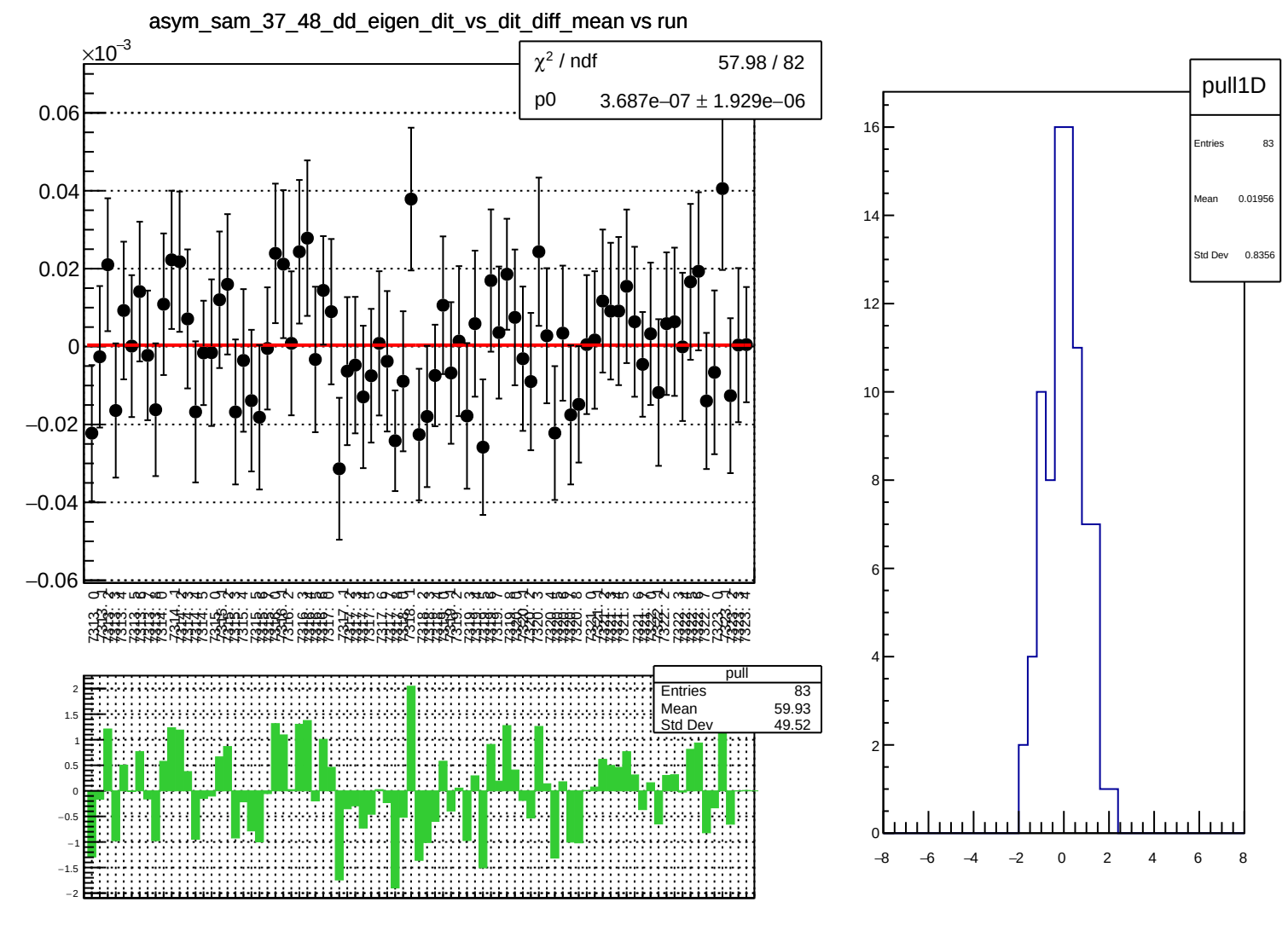

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.228e+06 / 82
p0 9.736e−12 ± 1.573e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

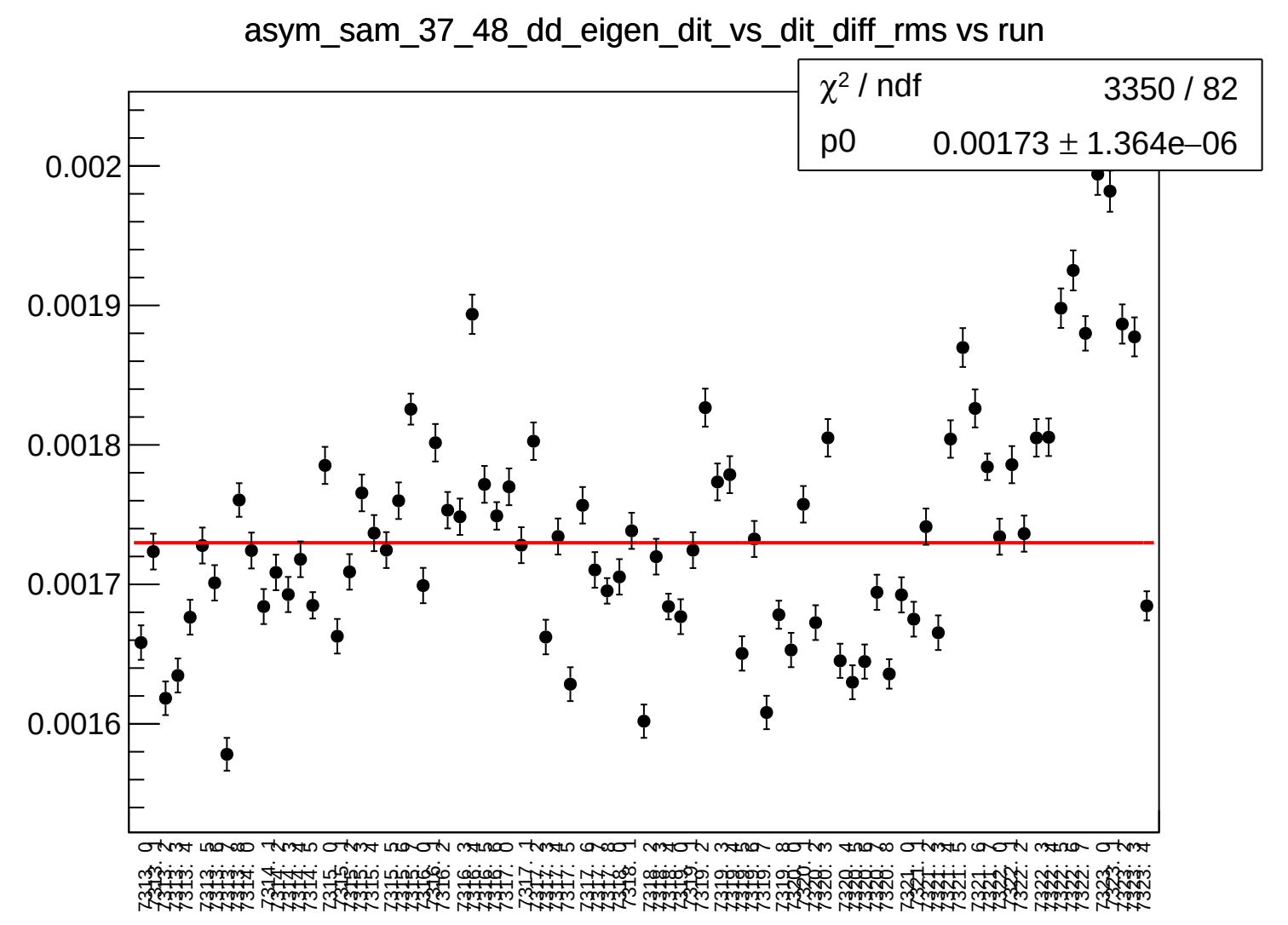

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.27 / 82
p0 0.008041 ± 0.05375
pull
Entries 83
Mean 40.81
Std Dev 38.63
pull1D
Entries 83
Mean −0.04461
Std Dev 1.013

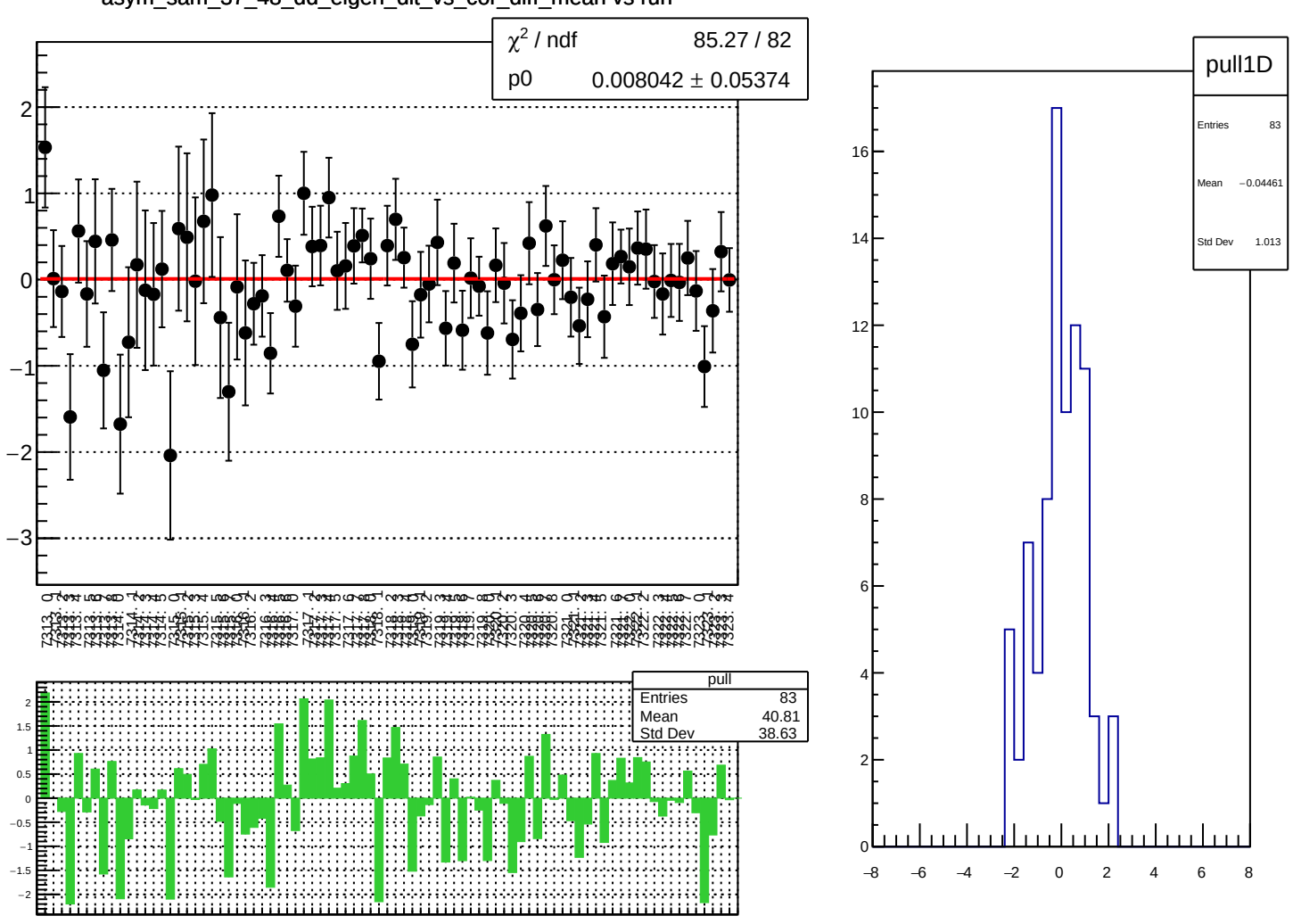

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.512e+04 / 82
p0 46.95 ± 0.038
90
80
70
60
50
40

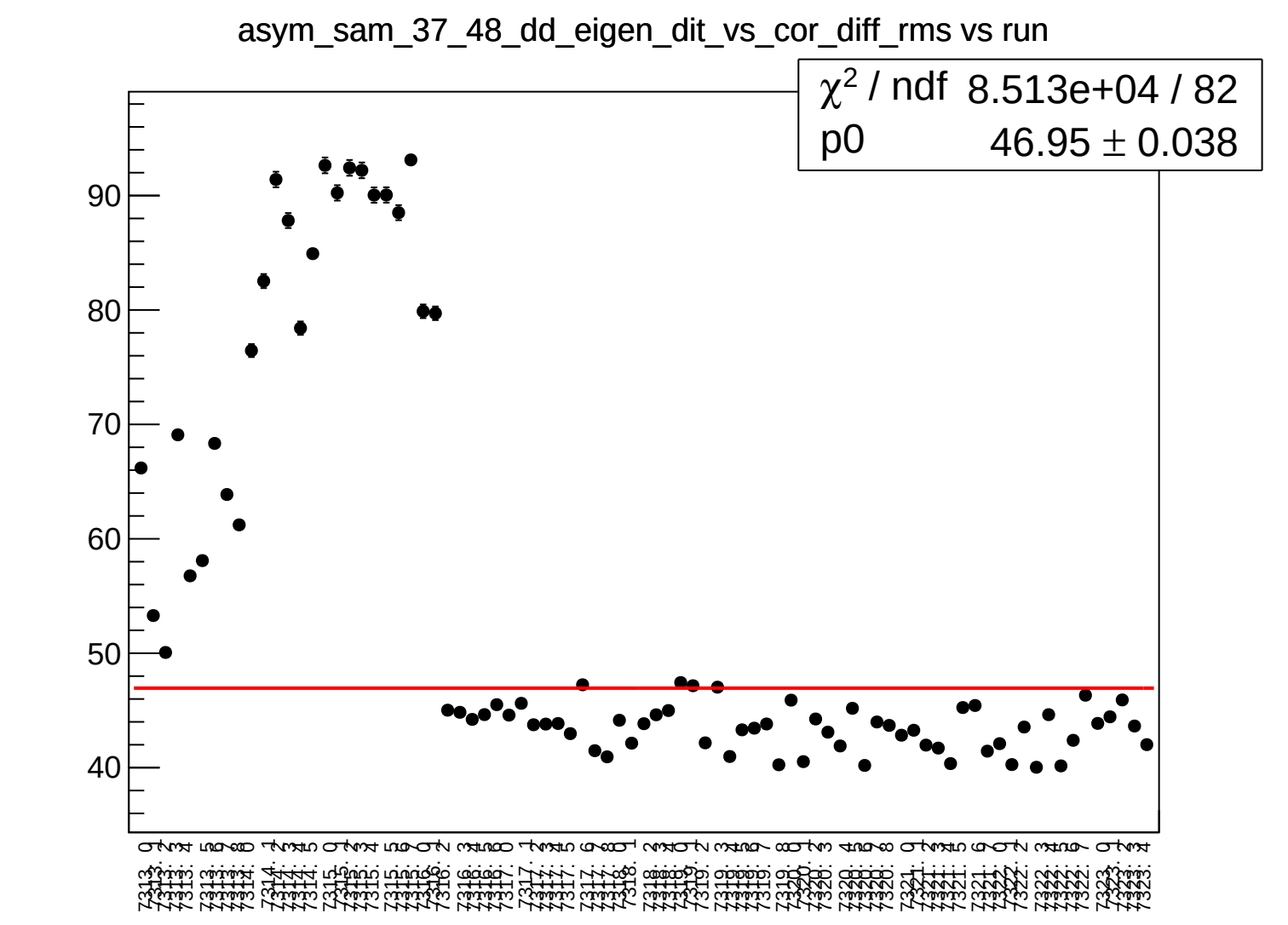

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.27 / 82
p0 0.008041 ± 0.05375
pull
Entries 83
Mean 40.81
Std Dev 38.63
pull1D
Entries 83
Mean −0.04461
Std Dev 1.013

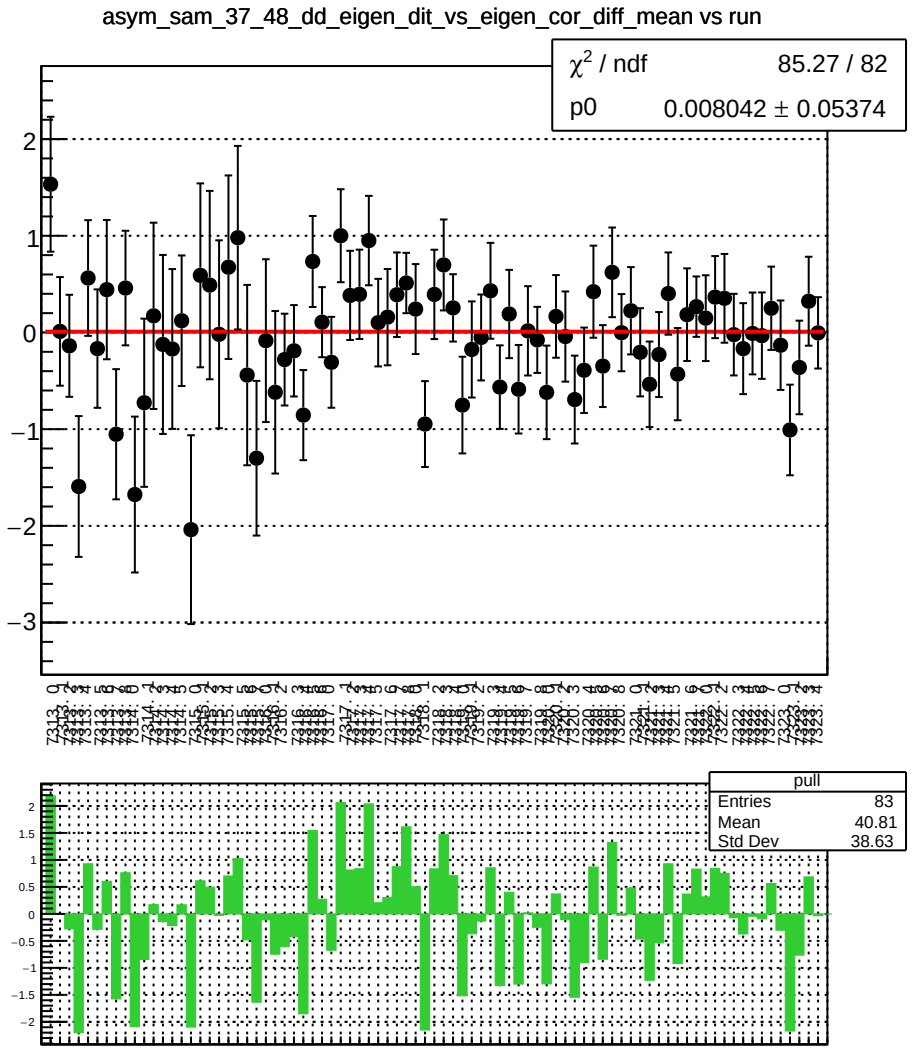

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.512e+04 / 82
p0 46.95 ± 0.038
90
80
70
60
50
40

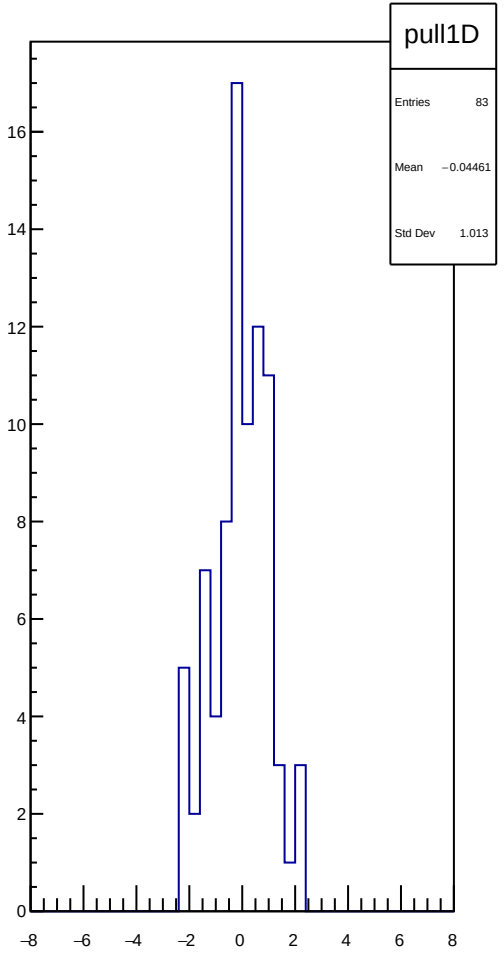

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.98 / 82
p0 3.687e−07 ± 1.929e−06
pull
Entries 83
Mean 59.93
Std Dev 49.52
pull1D
Entries 83
Mean 0.01956
Std Dev 0.8356

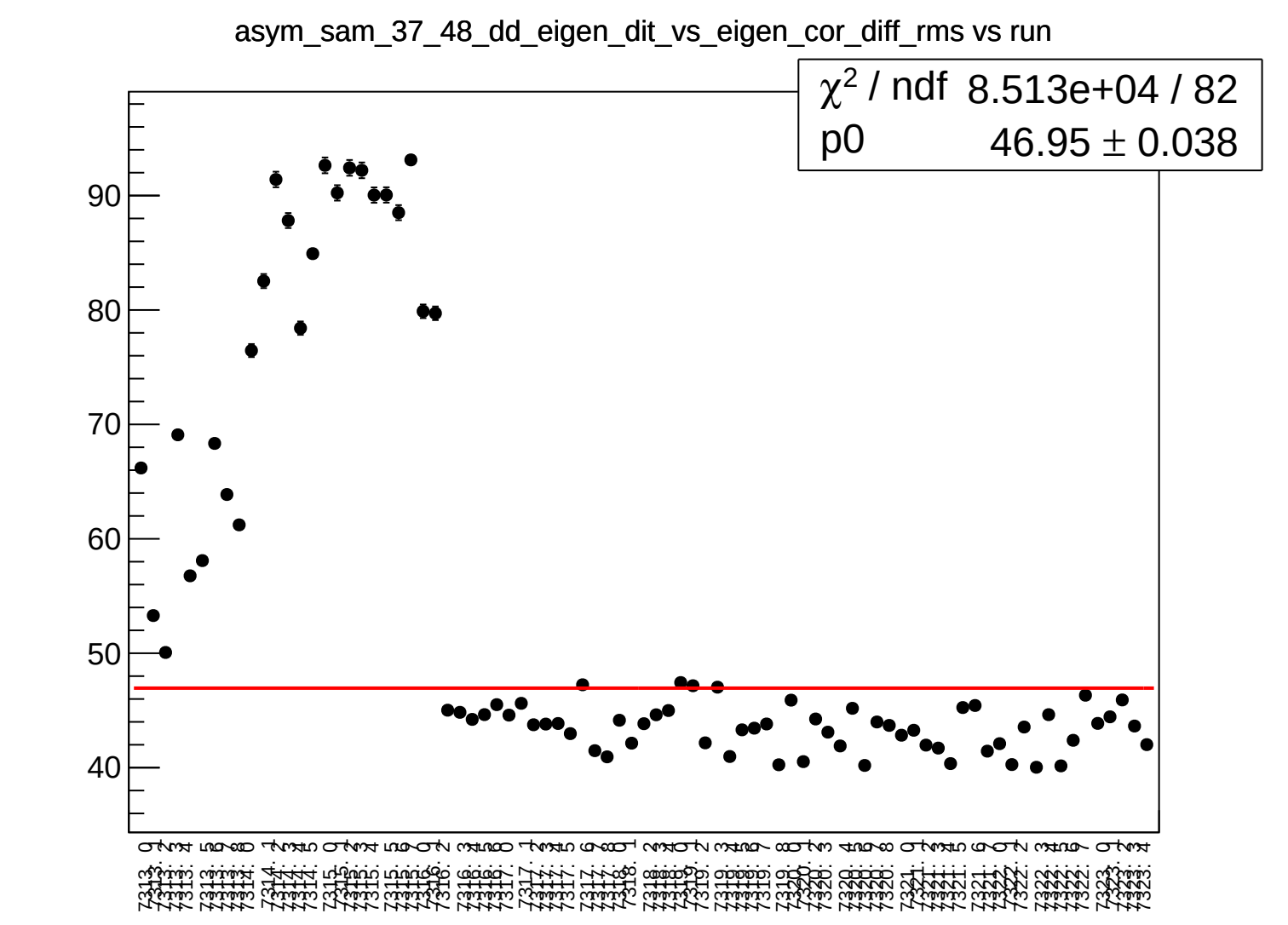

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3350 / 82
p0 0.00173 ± 1.364e−06
0.002
0.0019
0.0018
0.0017
0.0016

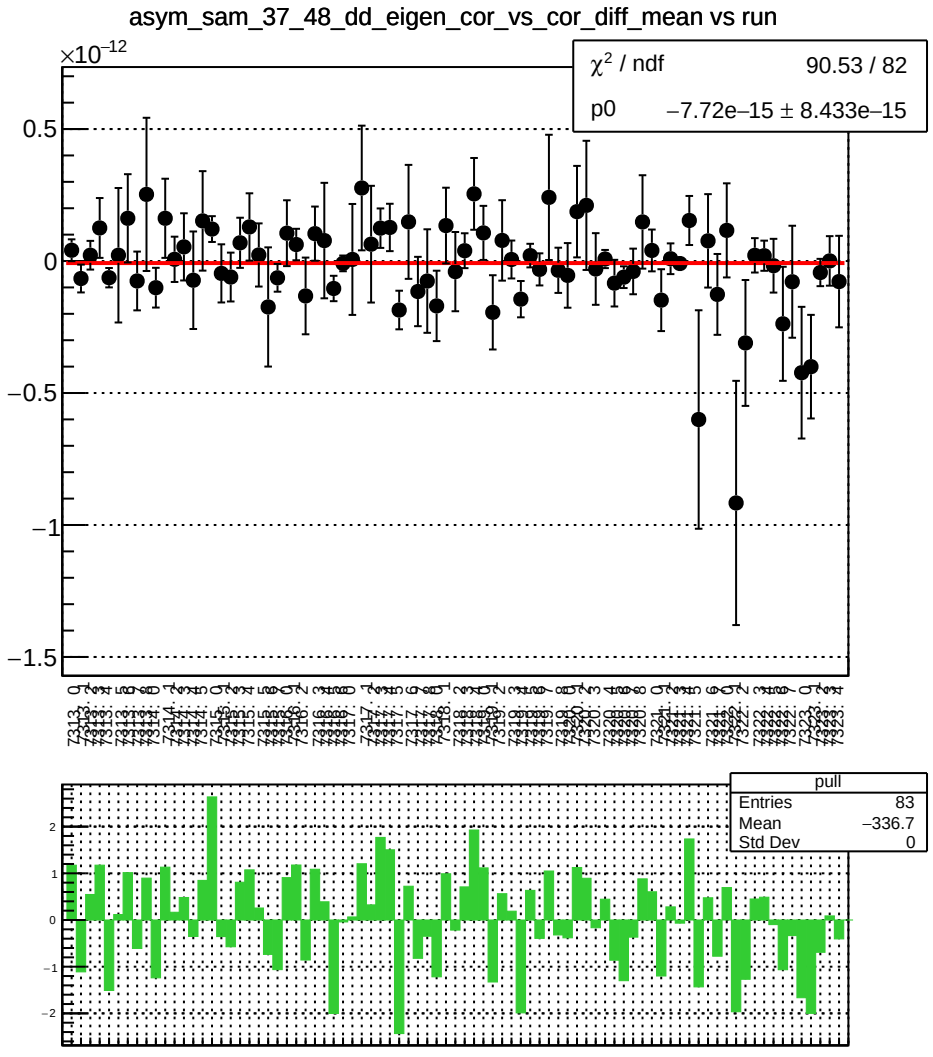

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.27 / 82
p0 0.008042 ± 0.05374
pull
Entries 83
Mean 40.81
Std Dev 38.63
pull1D
Entries 83
Mean −0.04461
Std Dev 1.013

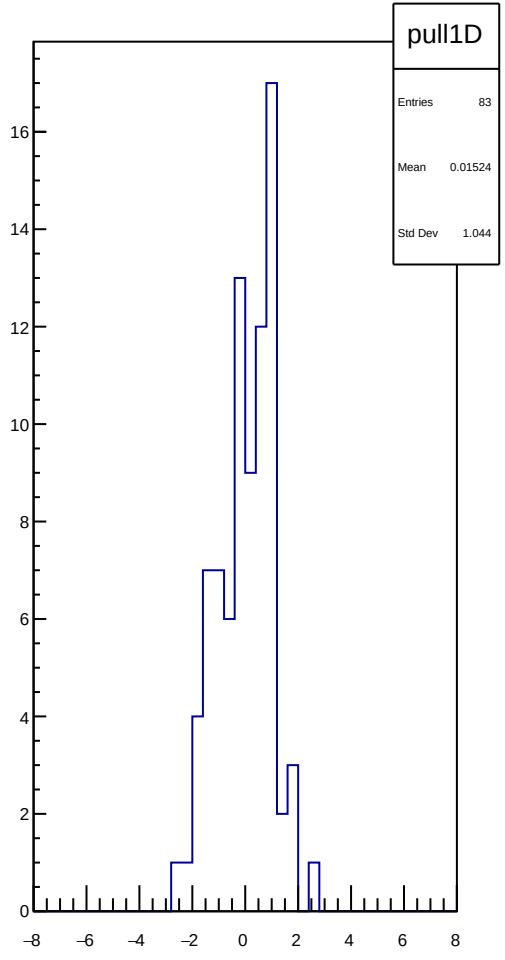

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.513e+04 / 82
p0 46.95 ± 0.038
90
80
70
60
50
40

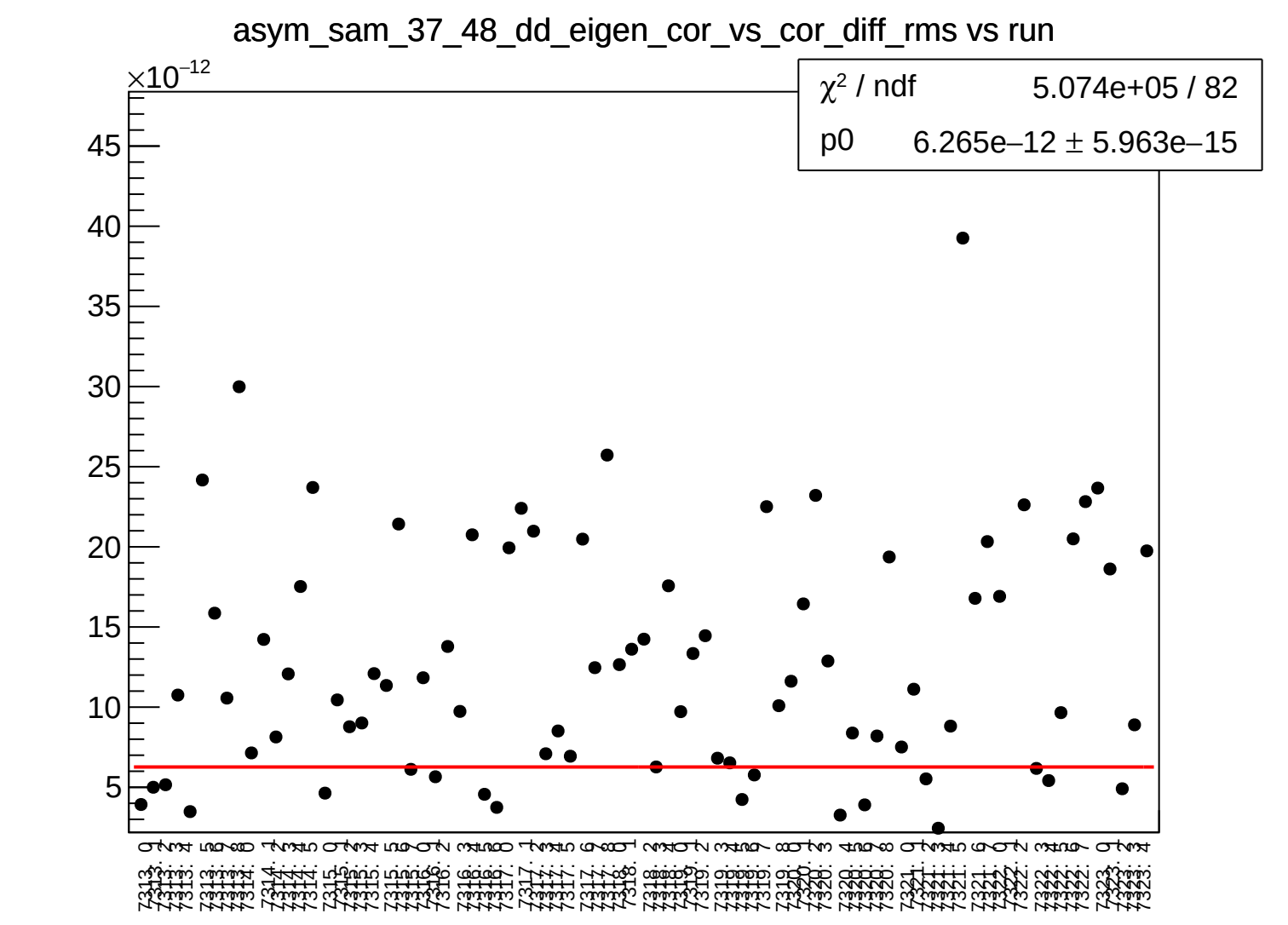

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.27 / 82
p0 0.008042 ± 0.05374
pull
Entries 83
Mean 40.81
Std Dev 38.63

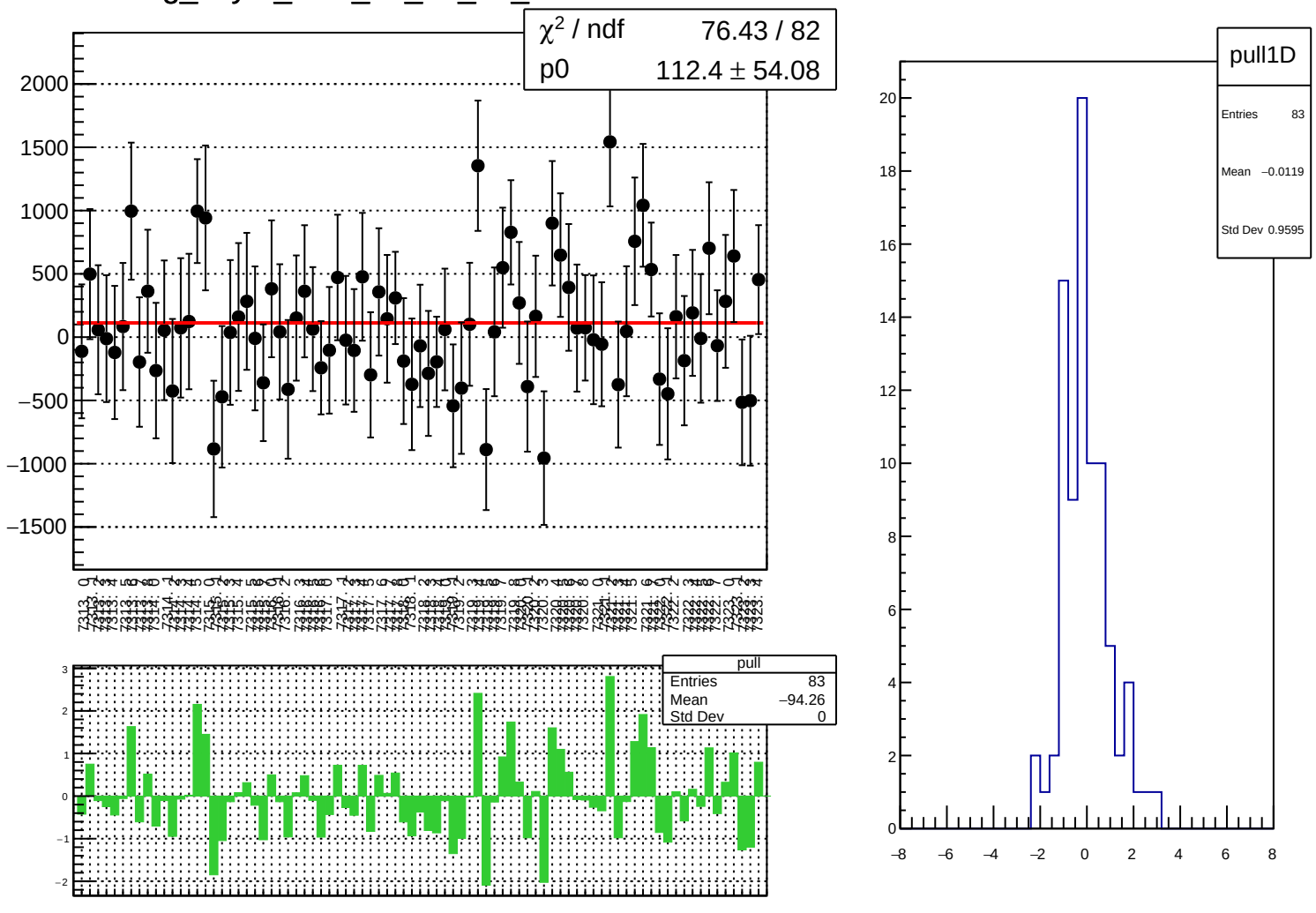

pull1D
Entries 83
Mean −0.04461
Std Dev 1.013

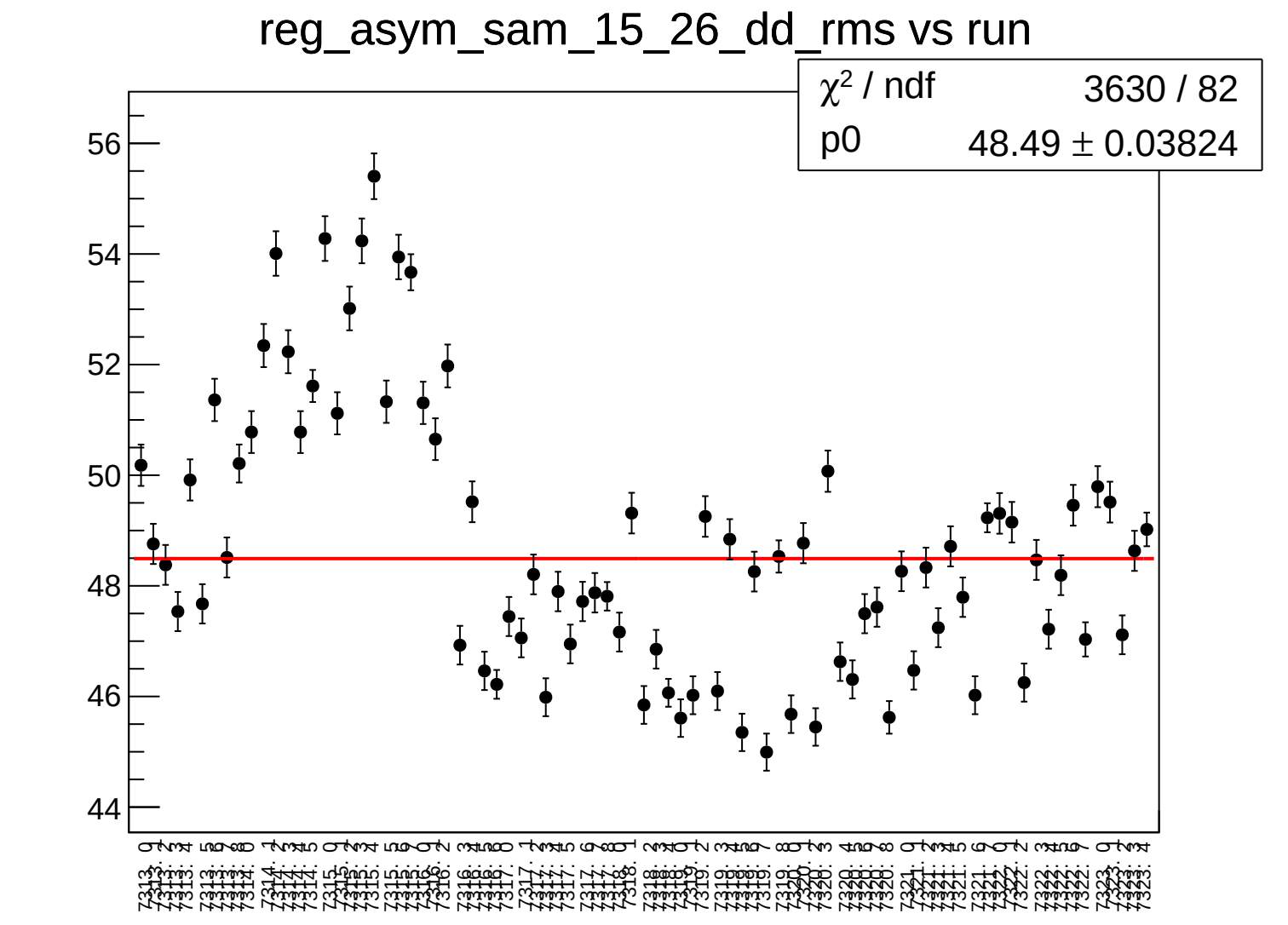

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.513e+04 / 82
p0 46.95 ± 0.038
90
80
70
60
50
40

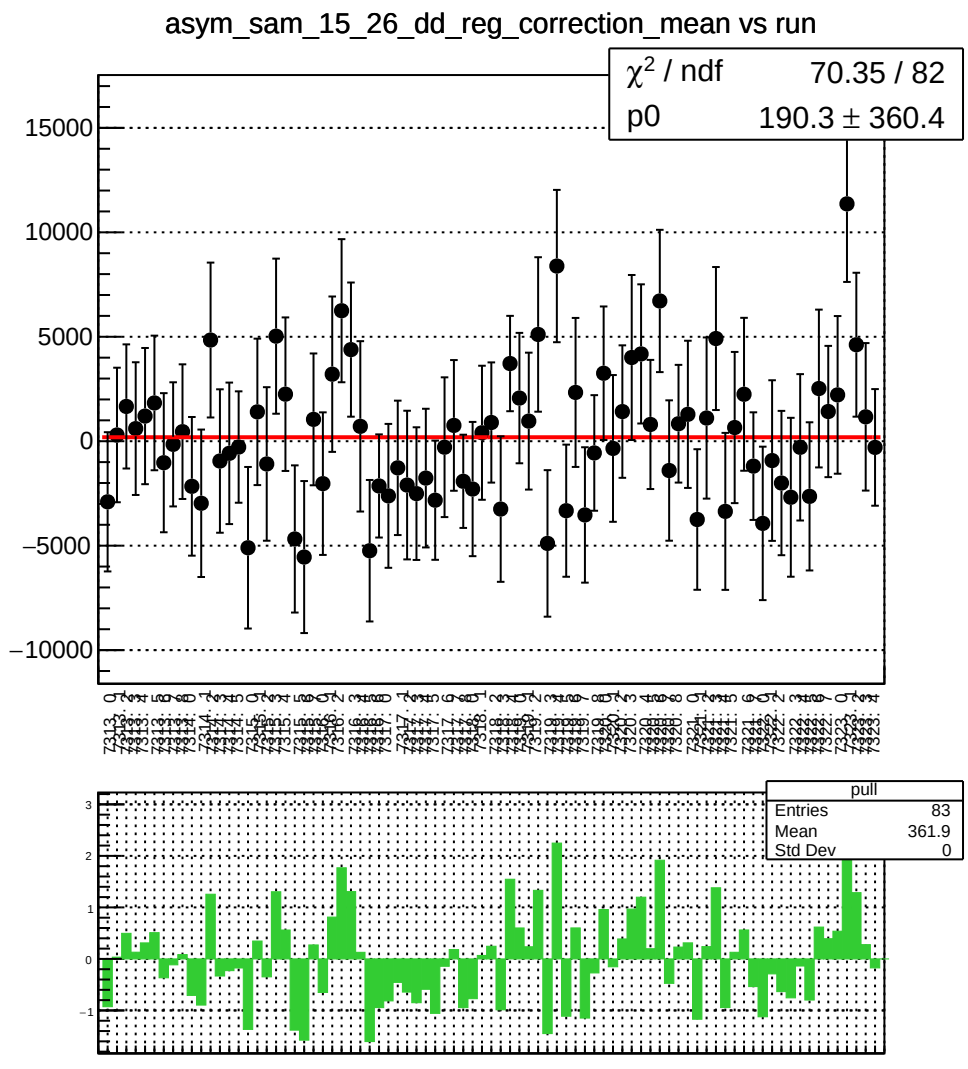

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.53 / 82
p0 −7.72e−15 ± 8.433e−15
0.5
0
−0.5
−1
−1.5
pull
Entries 83
Mean −336.7
Std Dev 0
2
1
0
−1
−2

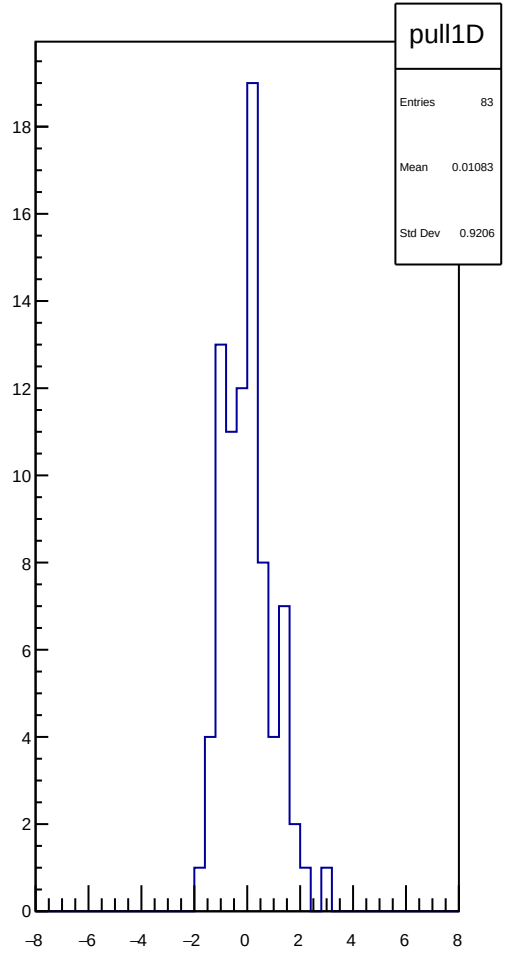

pull1D
Entries 83
Mean 0.01524
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

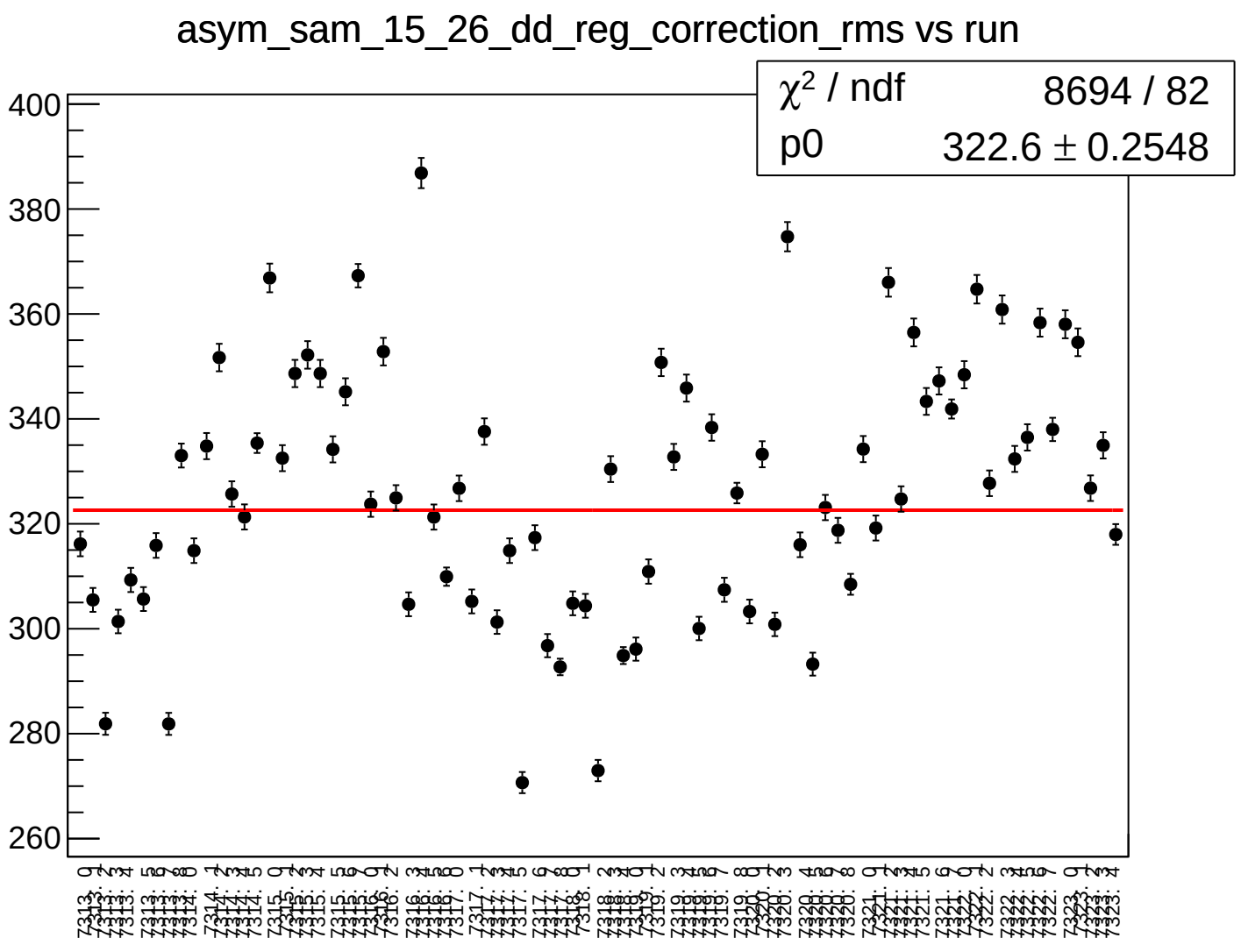

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.074e+05 / 82
p0 6.265e−12 ± 5.963e−15
45
40
35
30
25
20
15
10
5

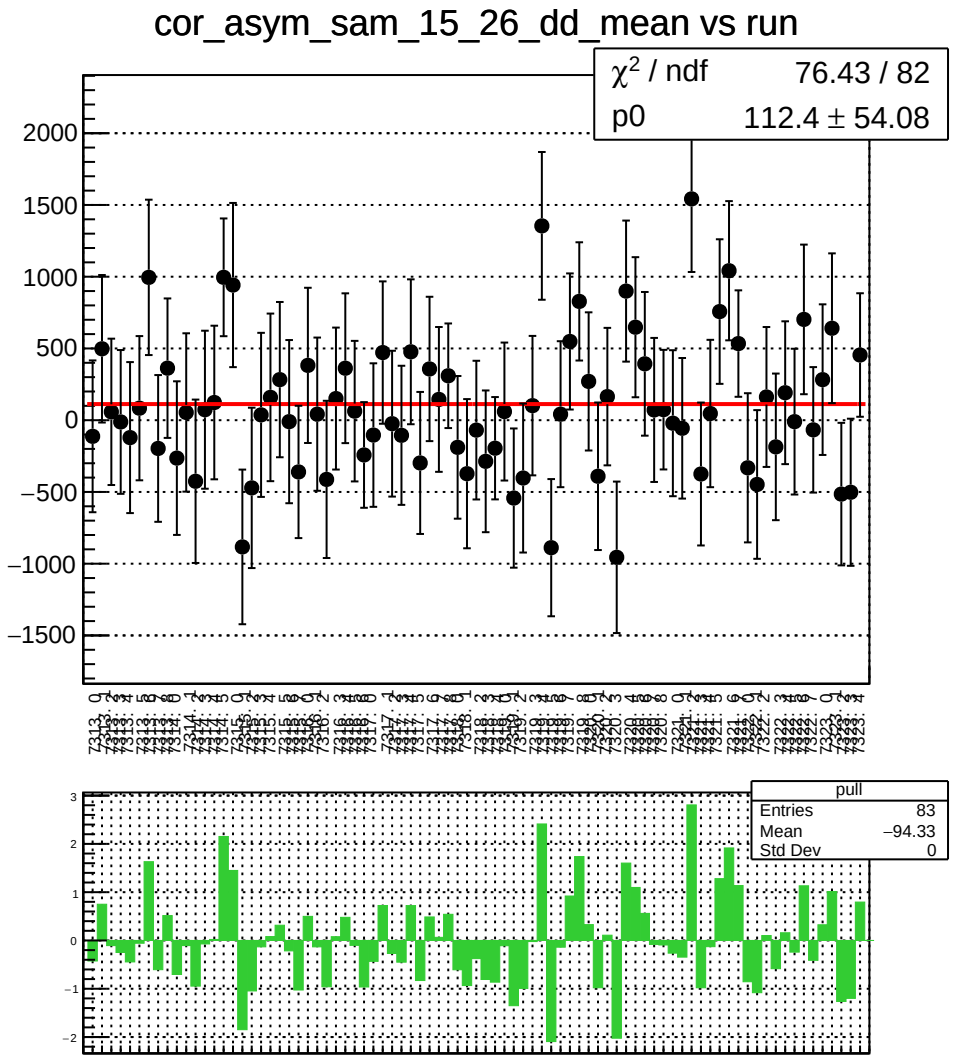

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.43 / 82
p0 112.4 ± 54.08
pull
Entries 83
Mean −94.26
Std Dev 0
pull1D
Entries 83
Mean −0.0119
Std Dev 0.9595

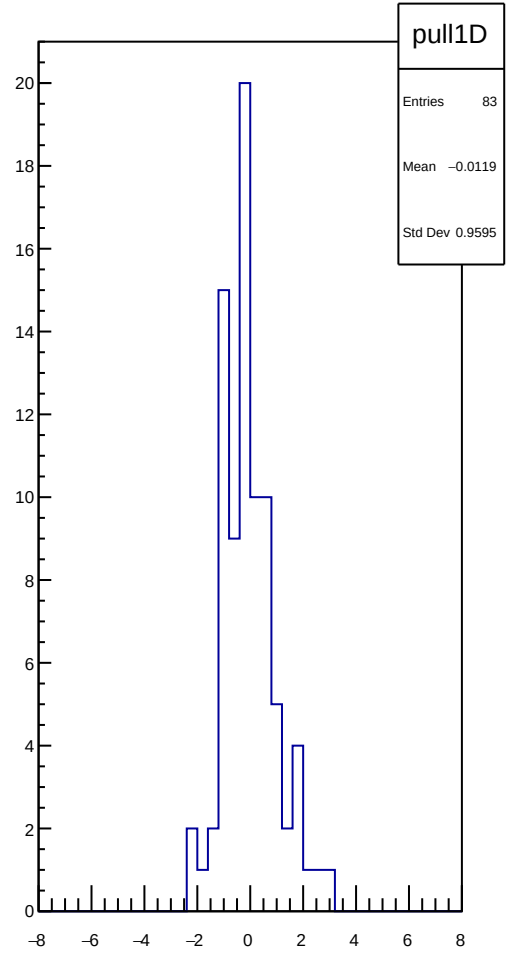

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3630 / 82
p0 48.49 ± 0.03824
56
54
52
50
48
46
44

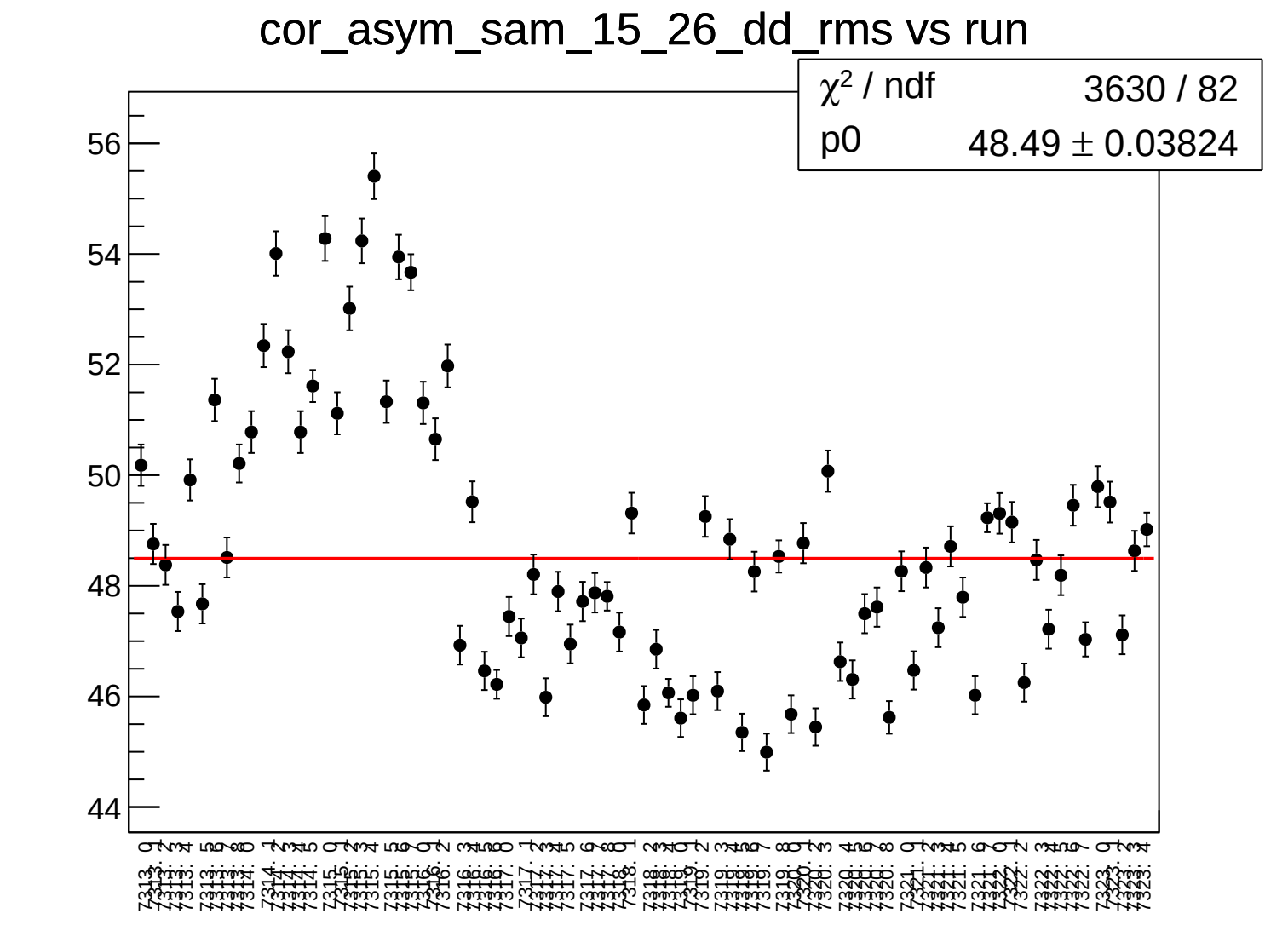

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 70.35 / 82
p0 190.3 ± 360.4
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 361.9
Std Dev 0
3
2
1
0
−1

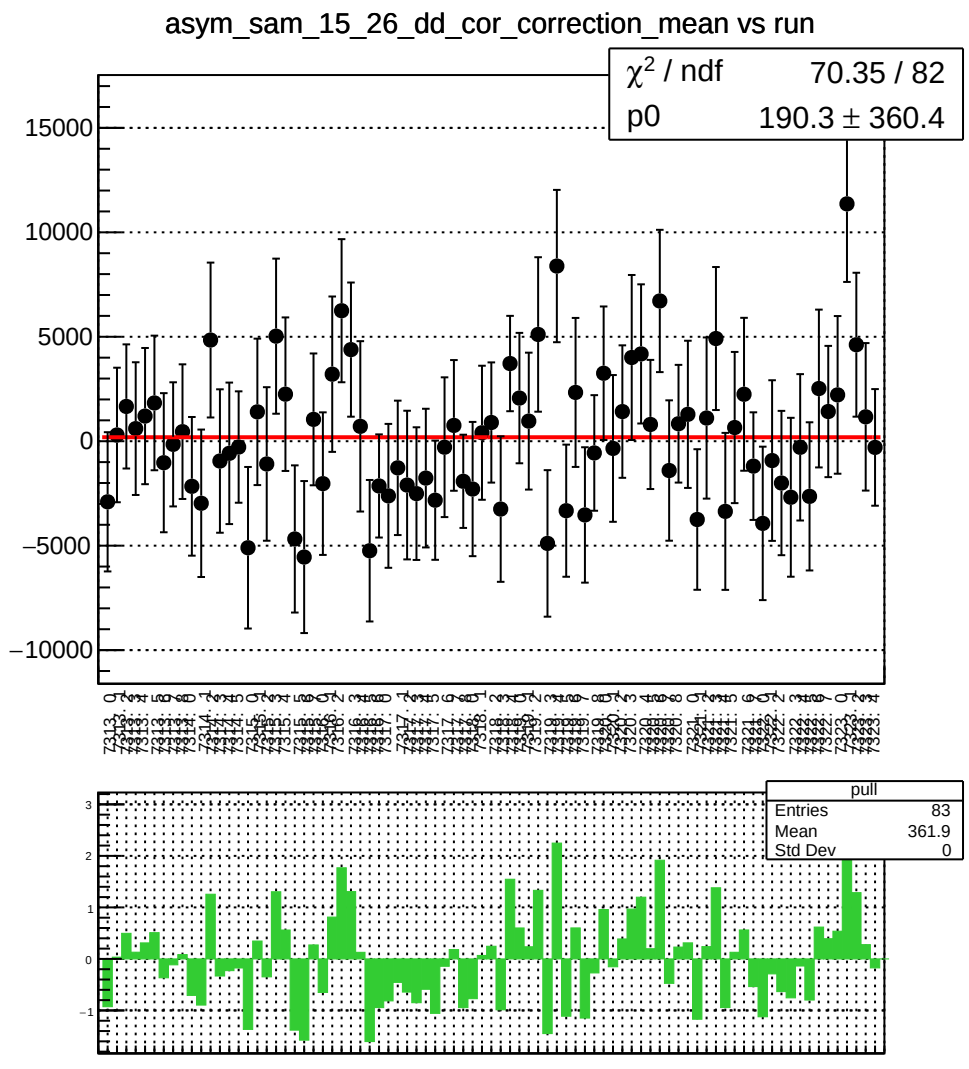

pull1D
Entries 83
Mean 0.01083
Std Dev 0.9206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

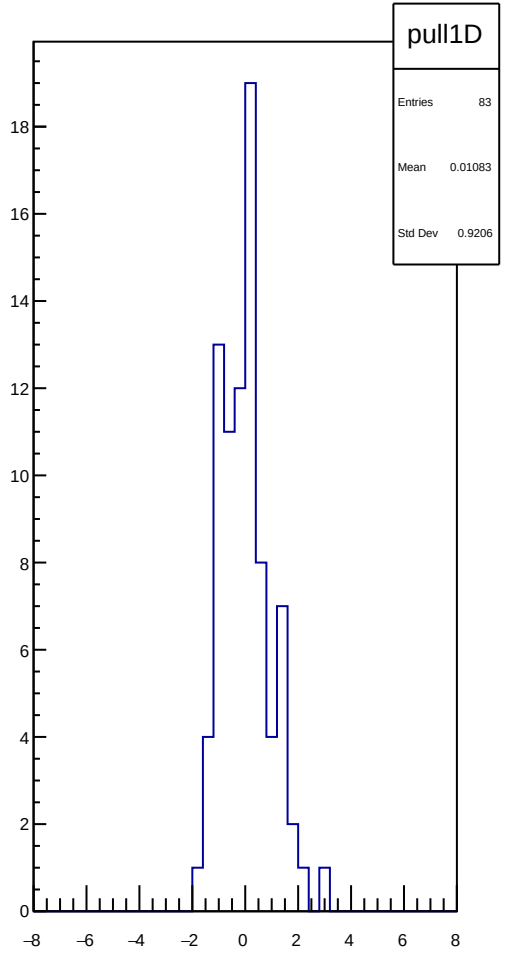

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 8694 / 82
p0 322.6 ± 0.2548
400
380
360
340
320
300
280
260

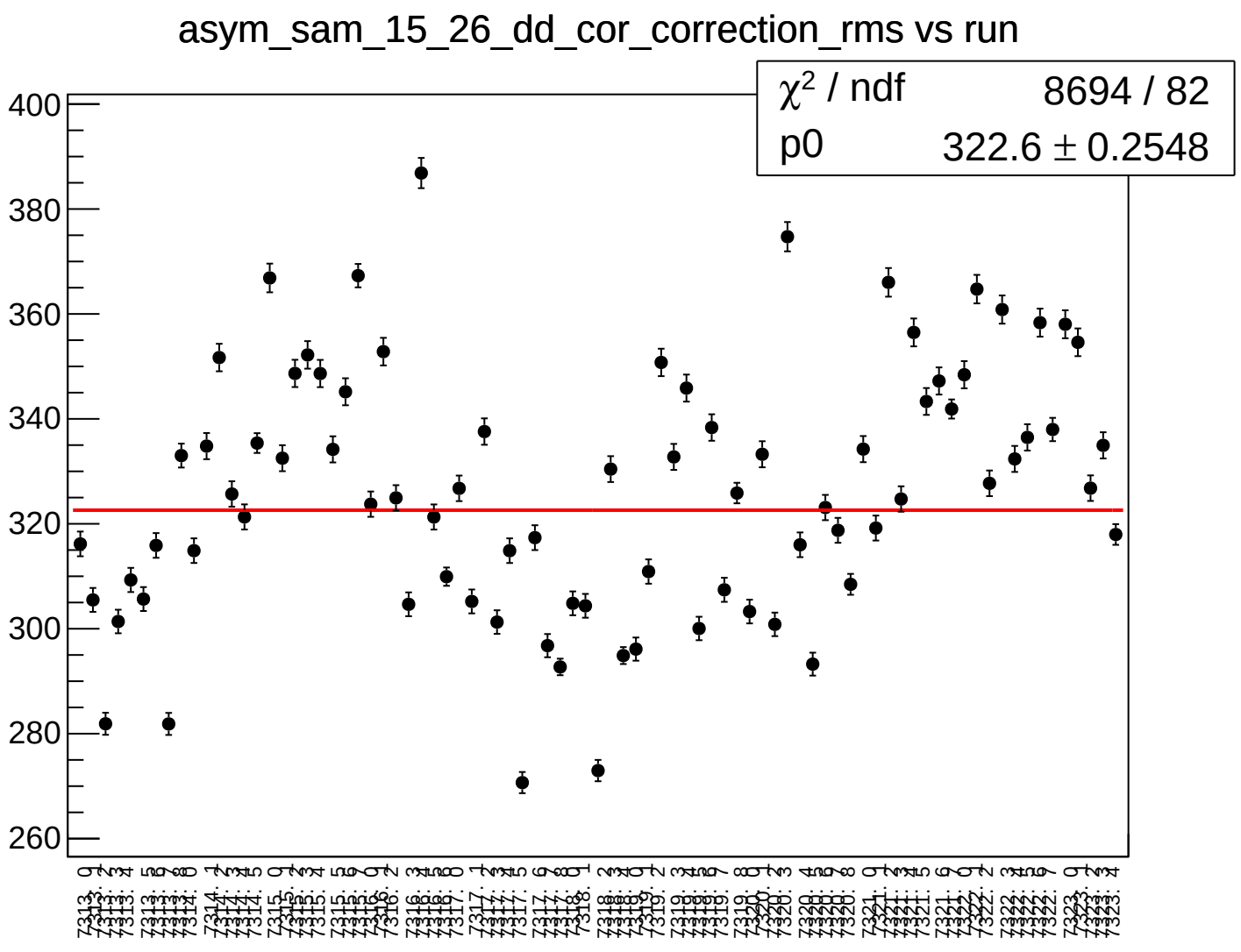

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.43 / 82
p0 112.4 ± 54.08
pull
Entries 83
Mean −94.33
Std Dev 0

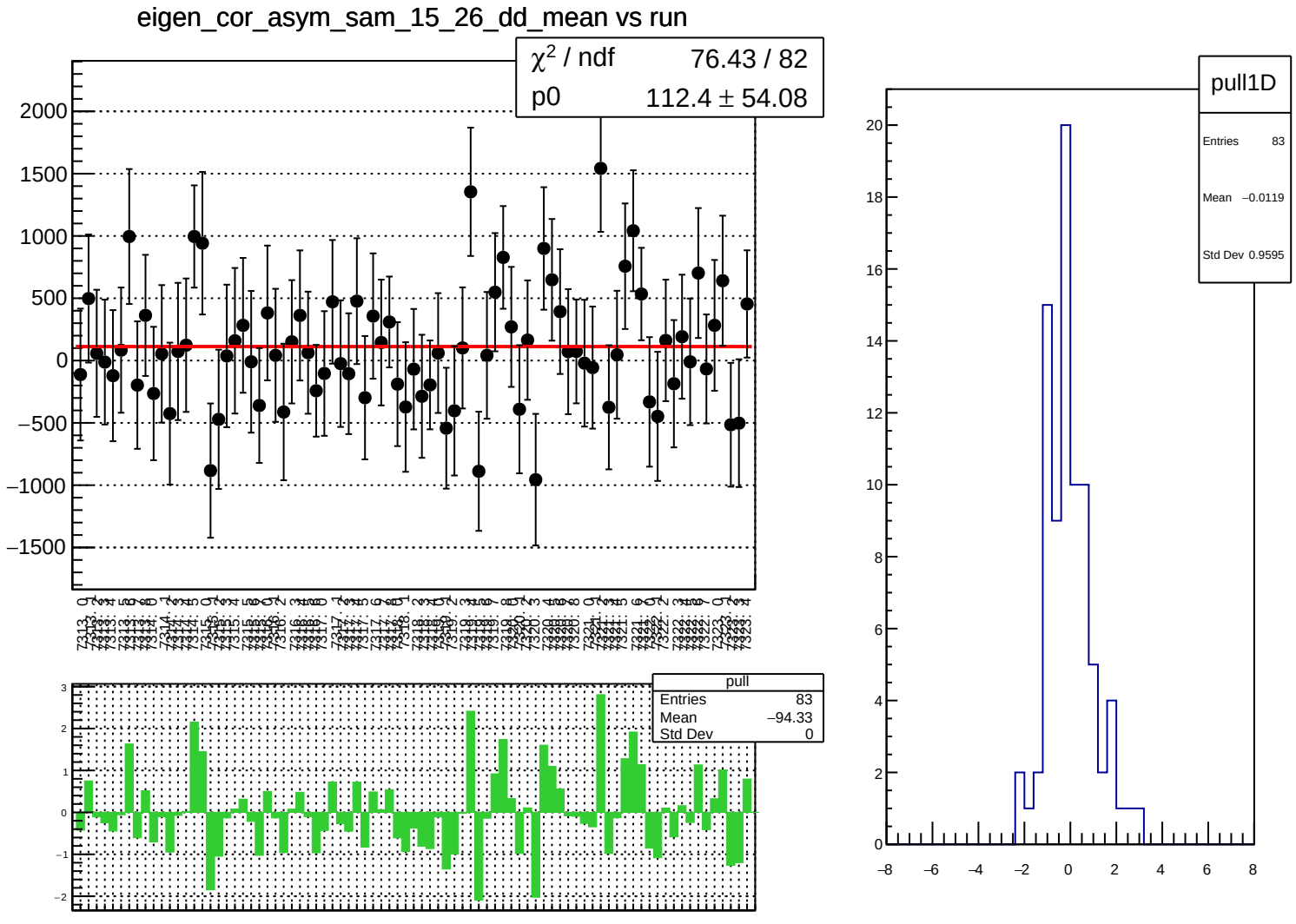

pull1D
Entries 83
Mean −0.0119
Std Dev 0.9595

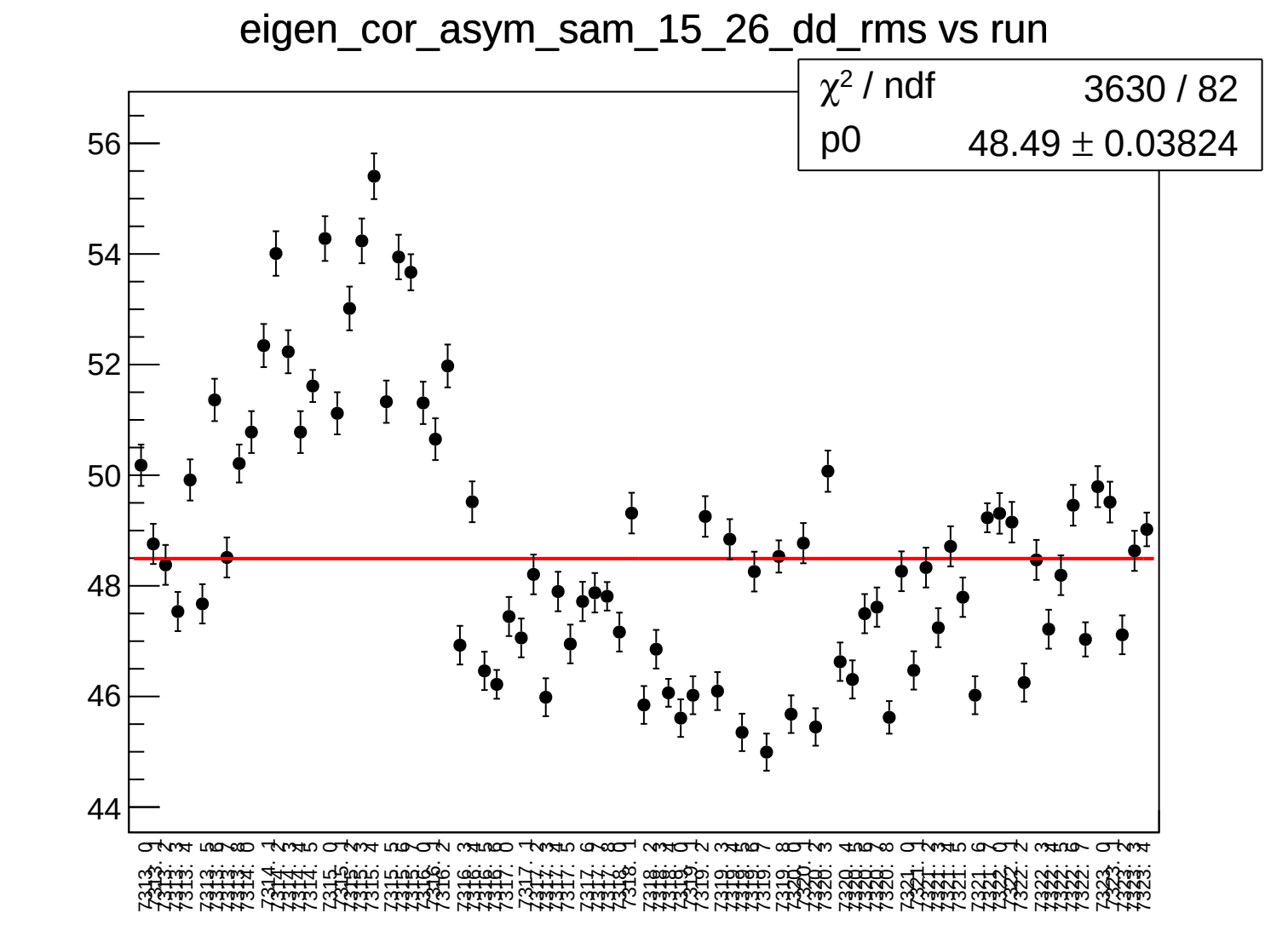

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3630 / 82
p0 48.49 ± 0.03824
56
54
52
50
48
46
44

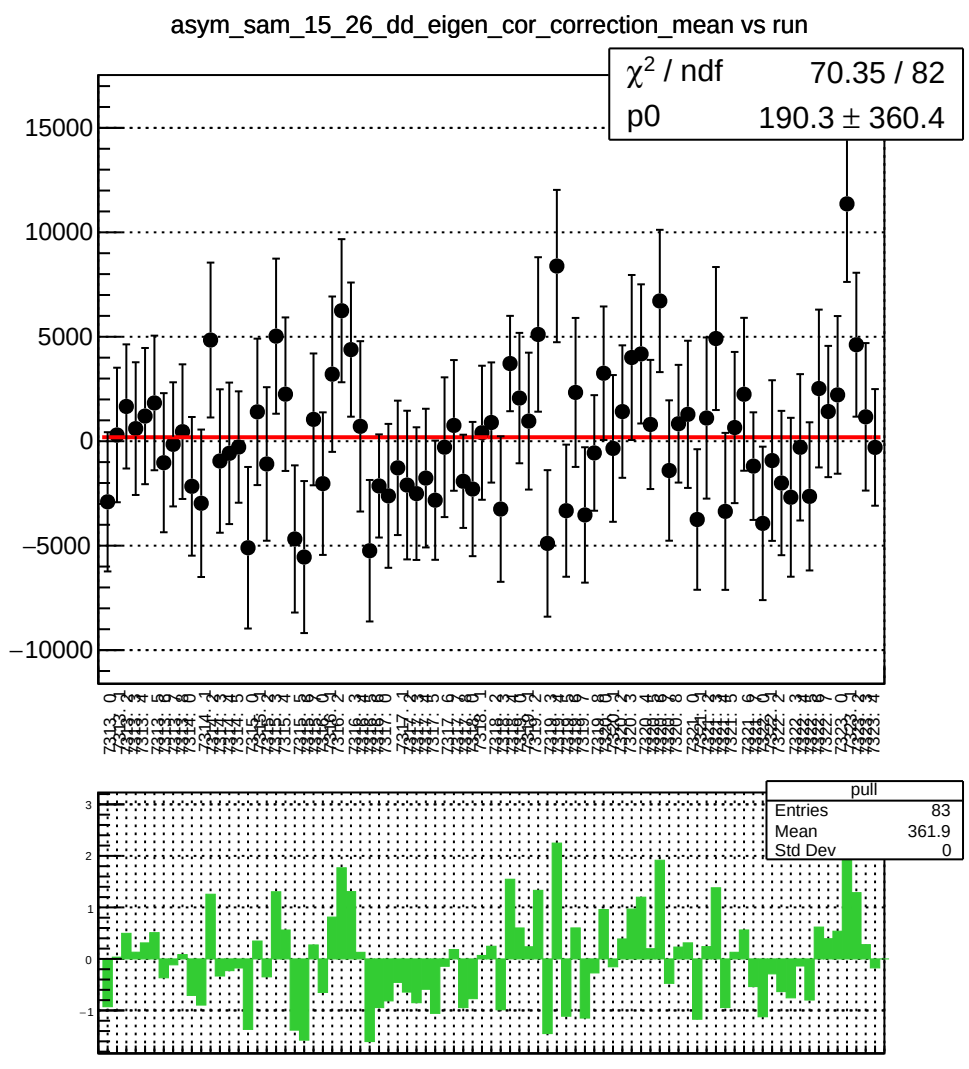

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 70.35 / 82
p0 190.3 ± 360.4
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 361.9
Std Dev 0
3
2
1
0
−1

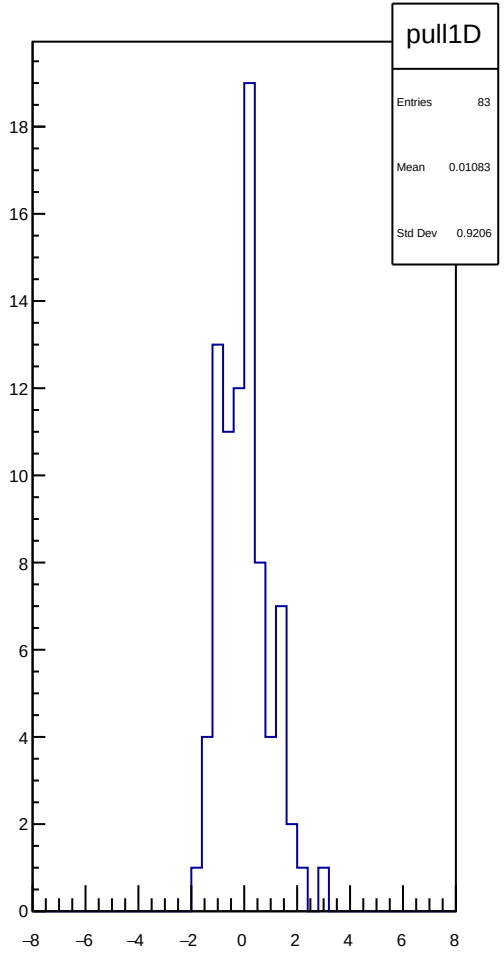

pull1D
Entries 83
Mean 0.01083
Std Dev 0.9206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

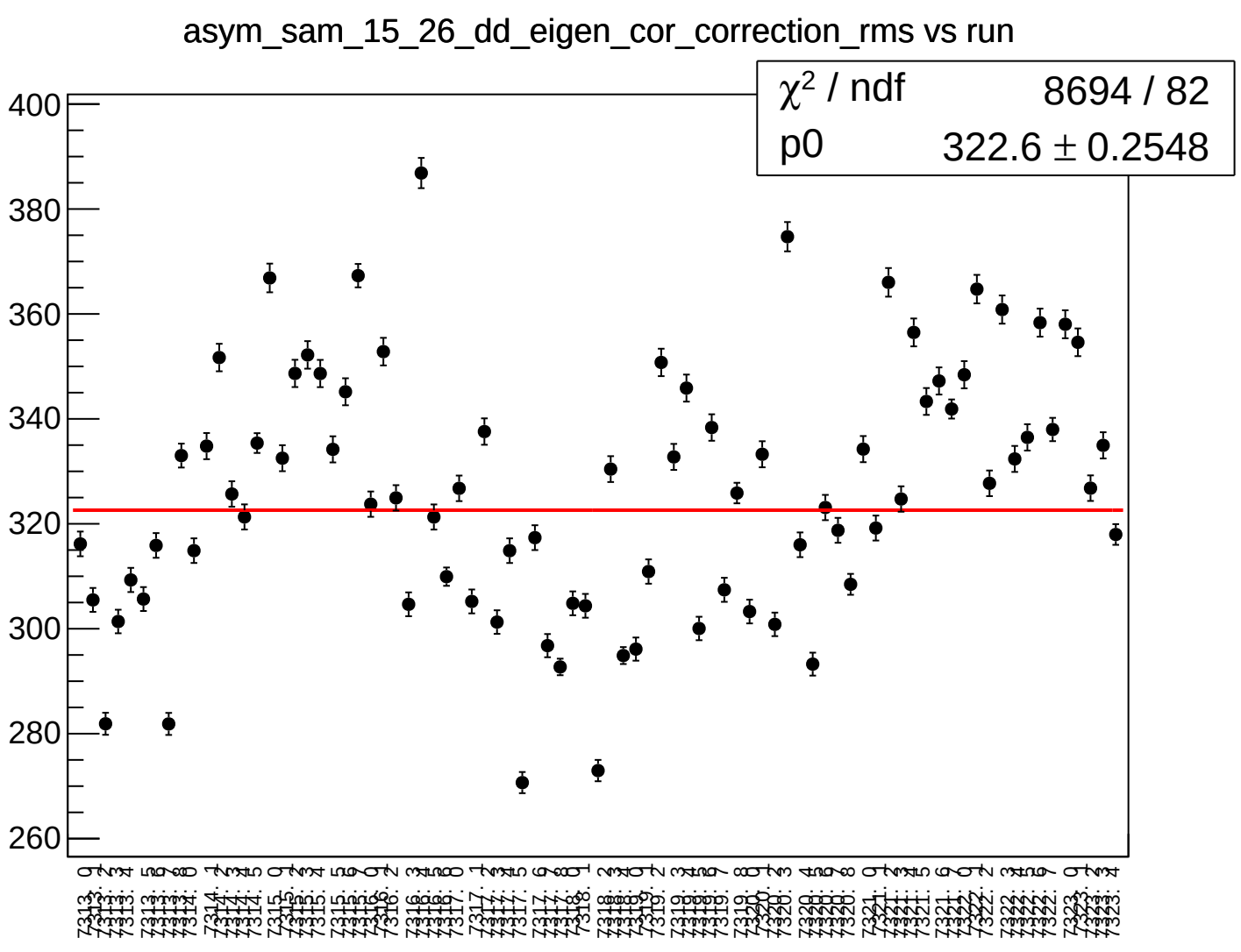

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 8694 / 82
p0 322.6 ± 0.2548
400
380
360
340
320
300
280
260

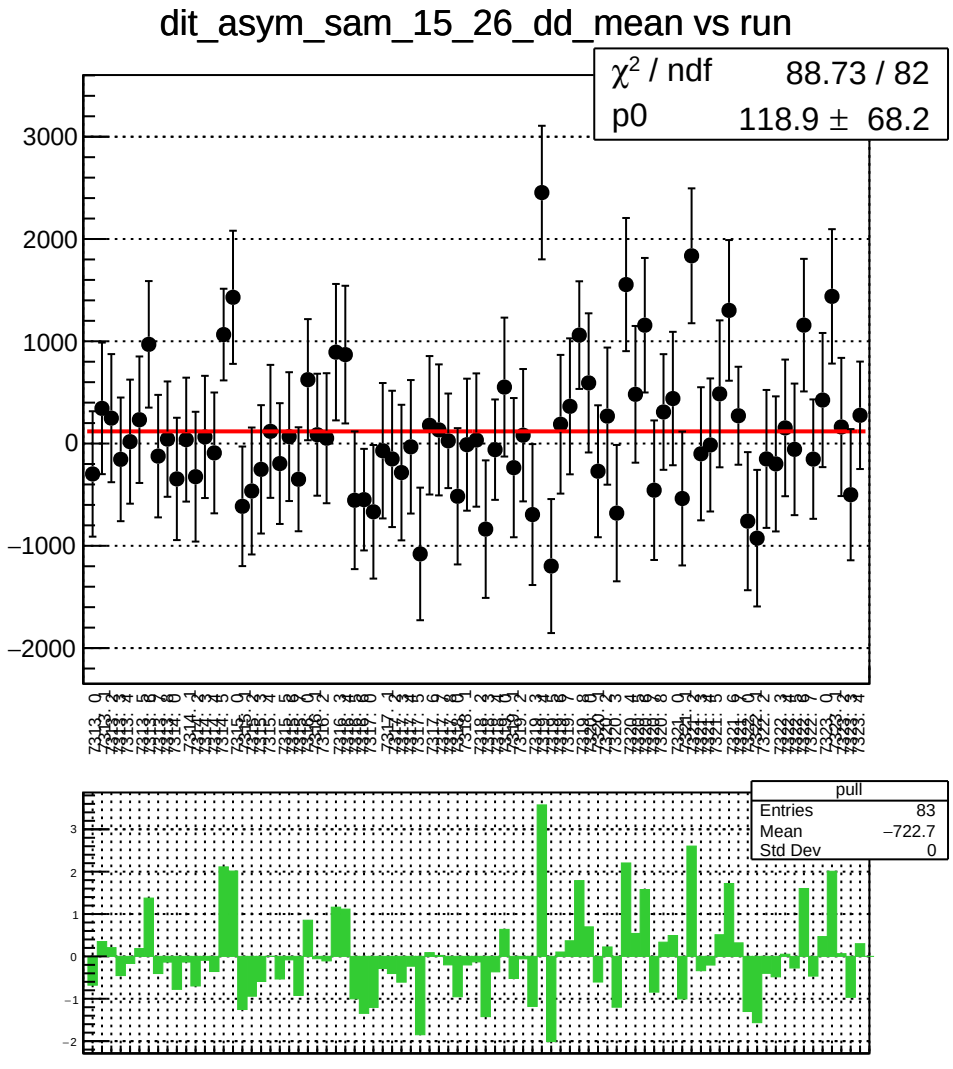

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 76.43 / 82
p0 112.4 ± 54.08
pull
Entries 83
Mean −94.33
Std Dev 0
pull1D
Entries 83
Mean −0.0119
Std Dev 0.9595

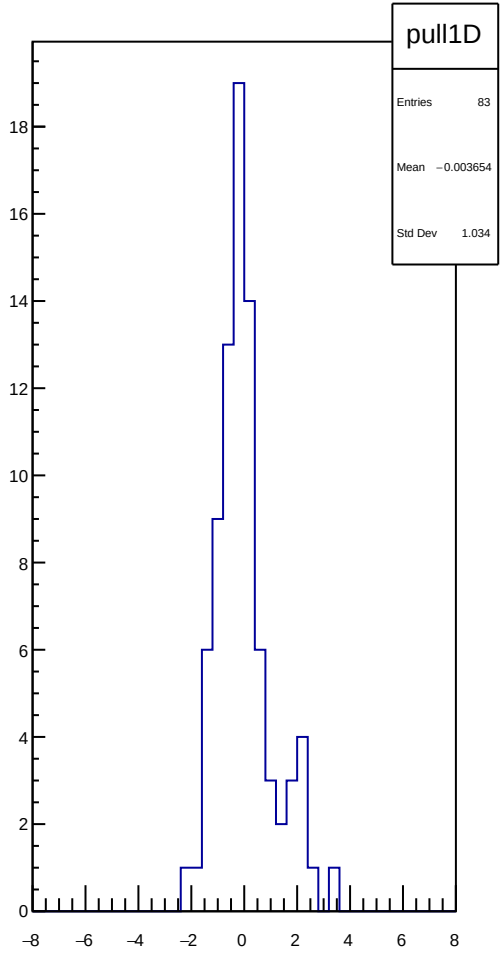

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3630 / 82
p0 48.49 ± 0.03824
56
54
52
50
48
46
44

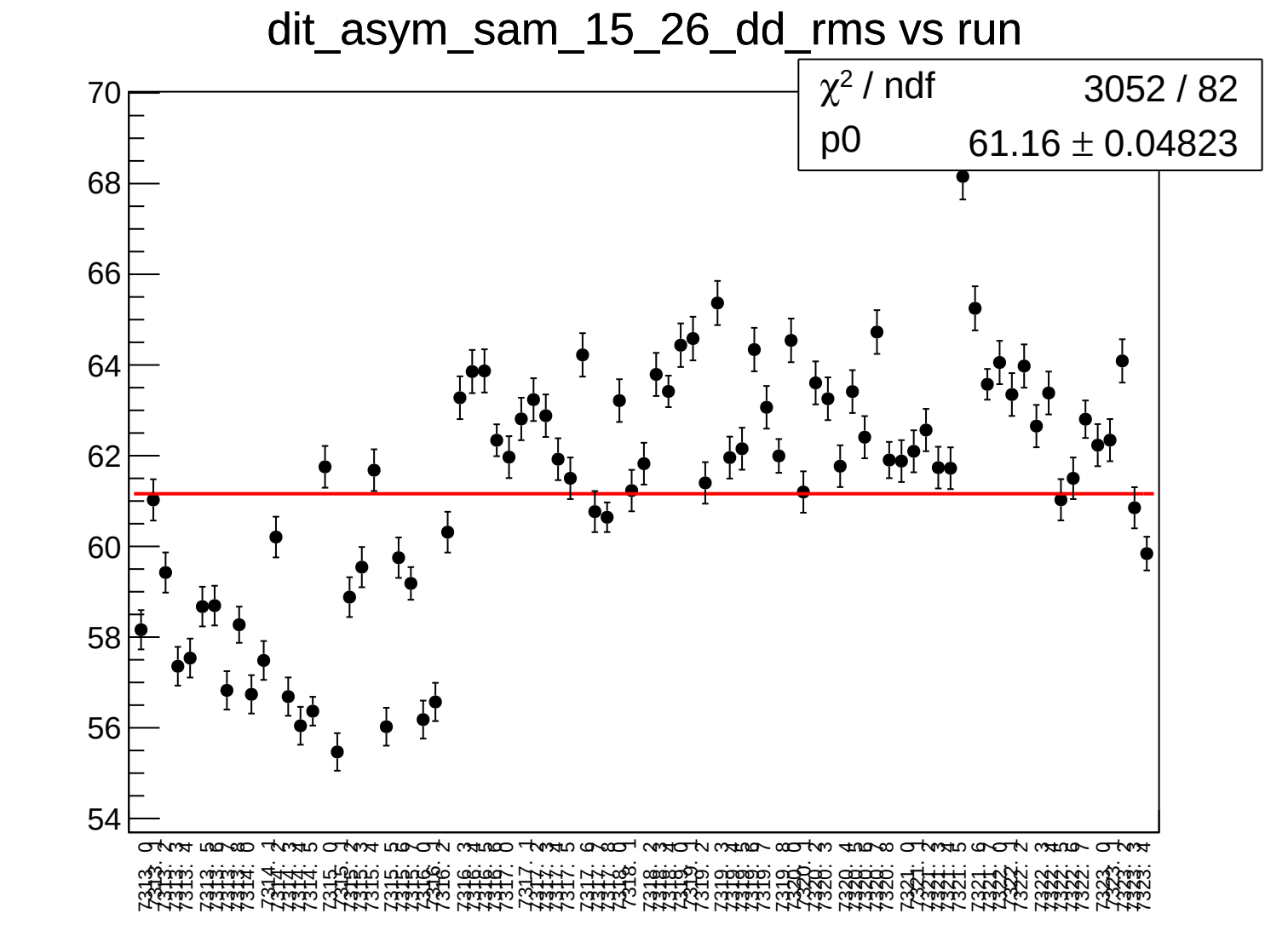

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.35 / 82
p0 190.3 ± 360.4
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 361.9
Std Dev 0
3
2
1
0
−1

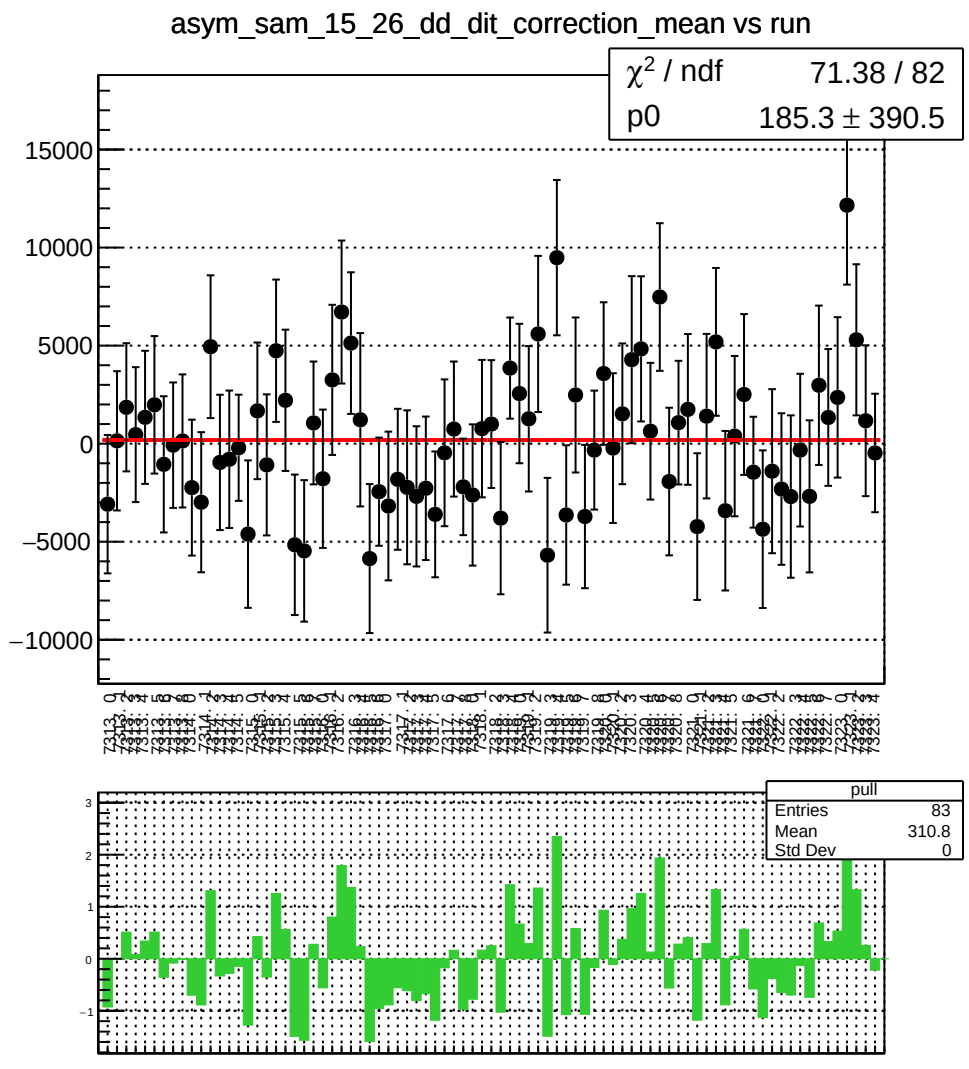

pull1D
Entries 83
Mean 0.01083
Std Dev 0.9206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

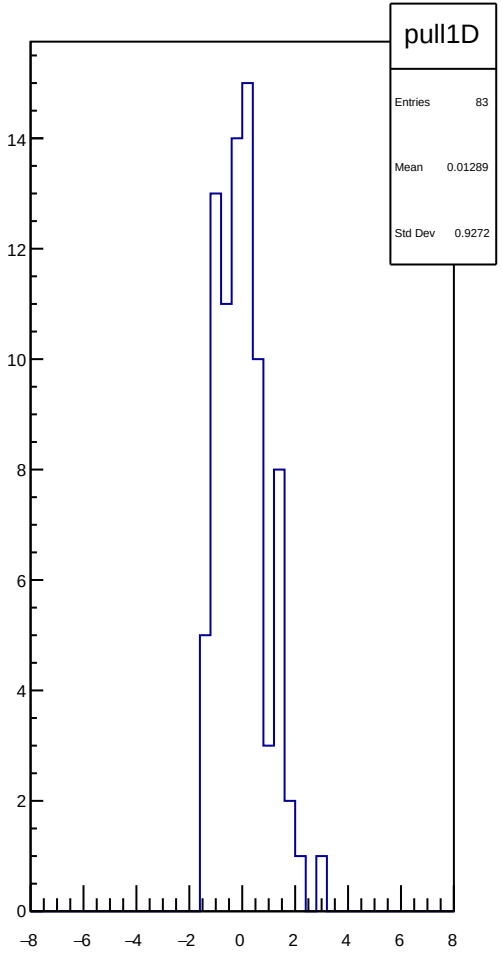

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8694 / 82
p0 322.6 ± 0.2548
400
380
360
340
320
300
280
260

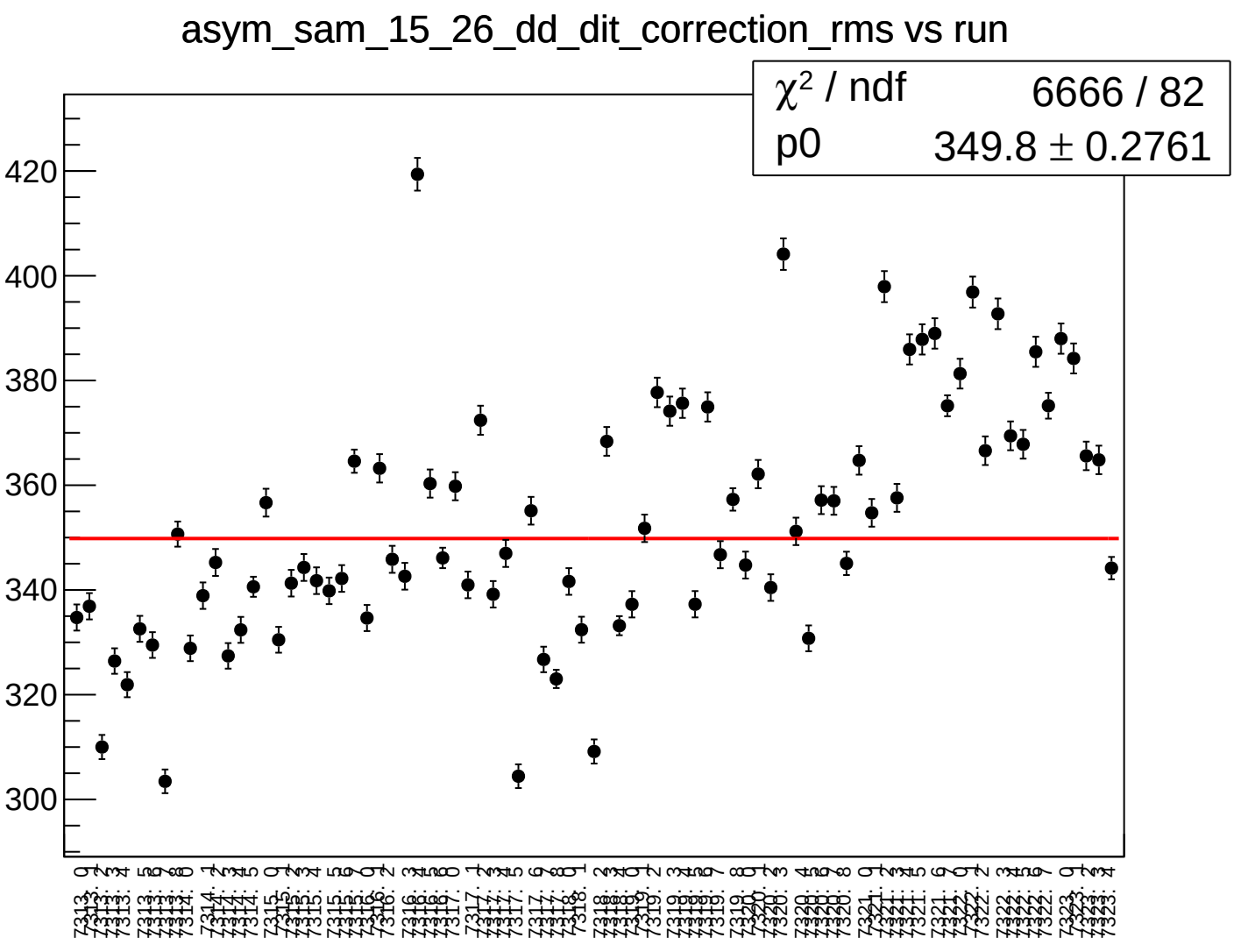

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.73 / 82
p0 118.9 ± 68.2
3000
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −722.7
Std Dev 0
3
2
1
0
−1
−2

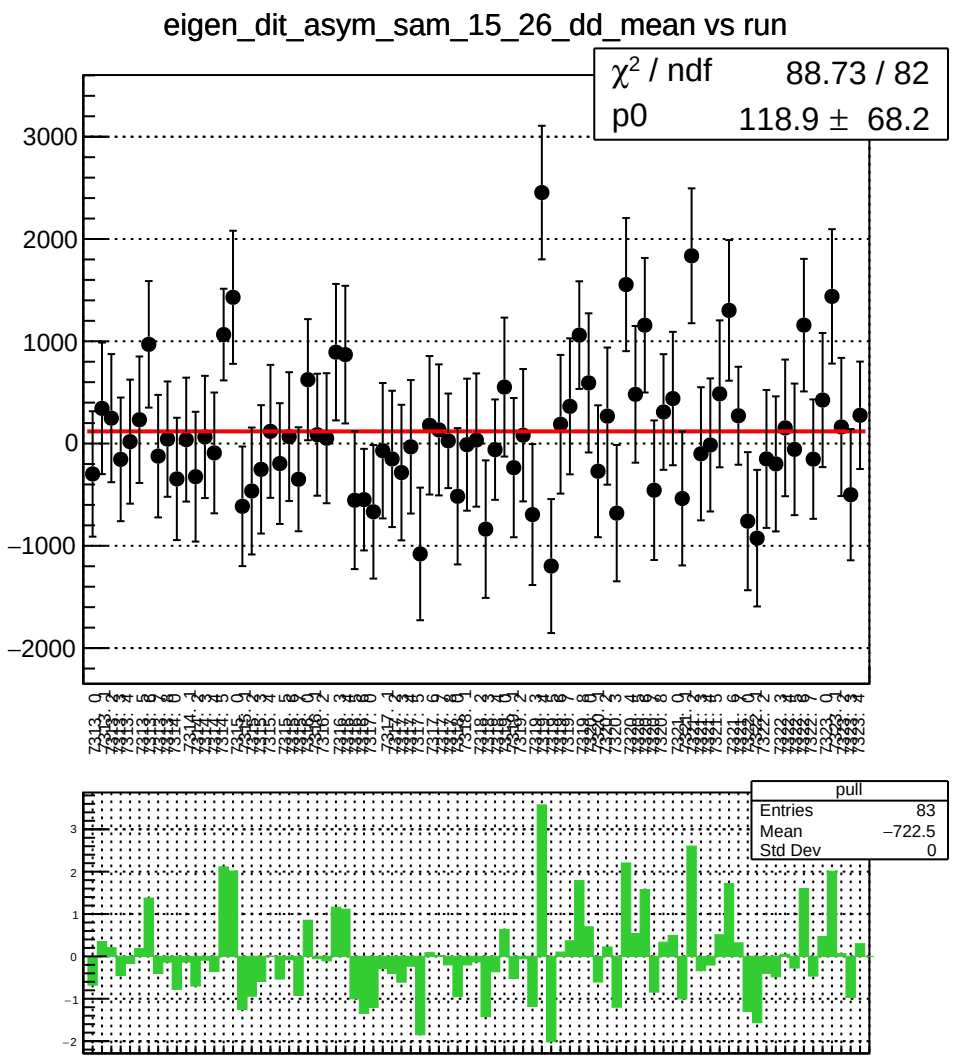

pull1D
Entries 83
Mean −0.003654
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

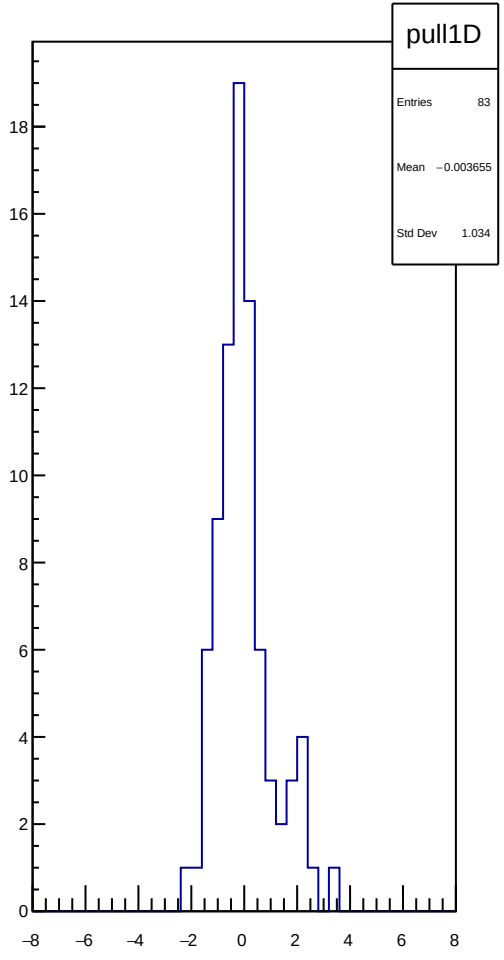

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3052 / 82
p0 61.16 ± 0.04823
70
68
66
64
62
60
58
56
54

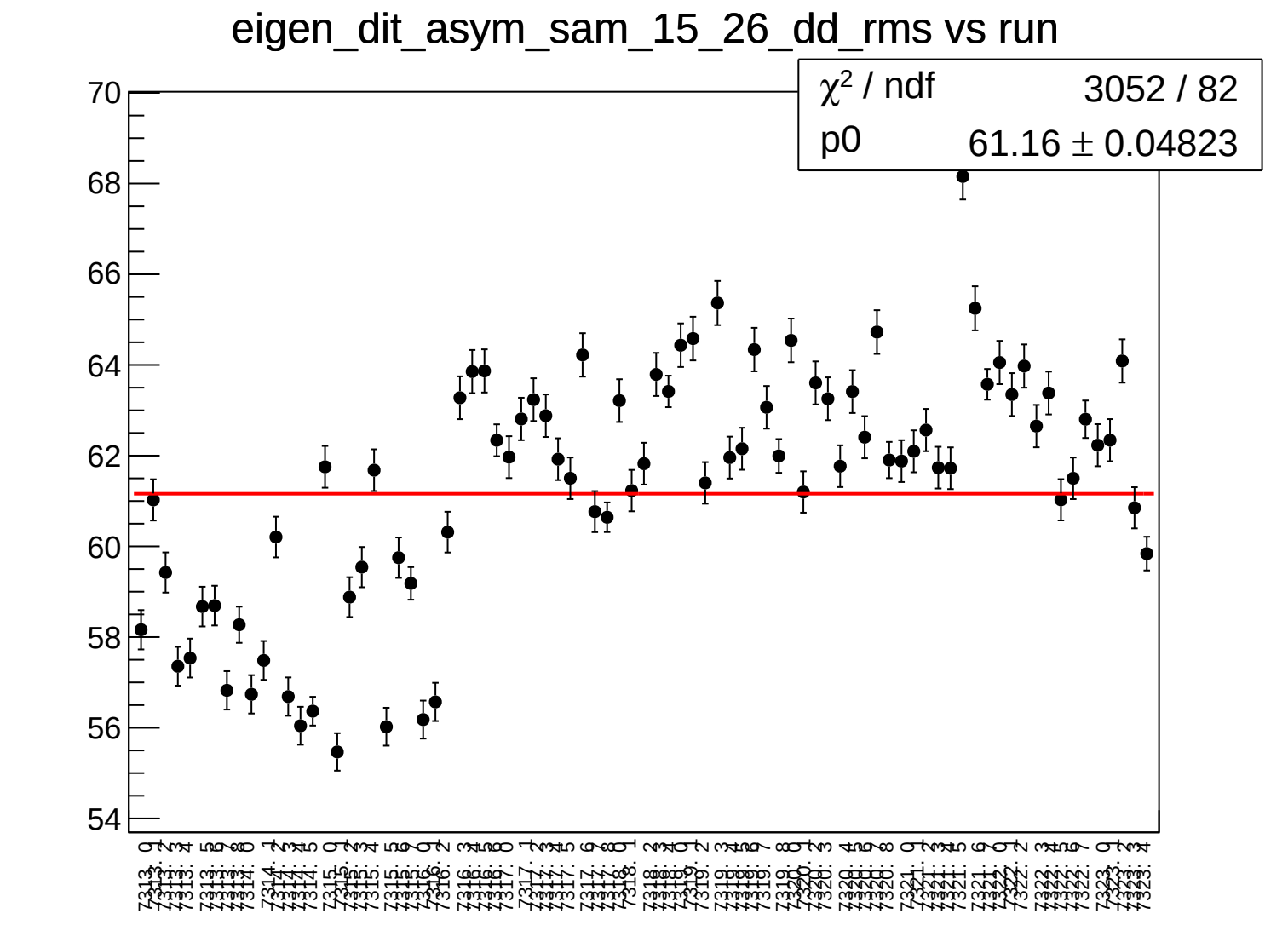

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 71.38 / 82
p0 185.3 ± 390.5
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 310.8
Std Dev 0
3
2
1
0
−1

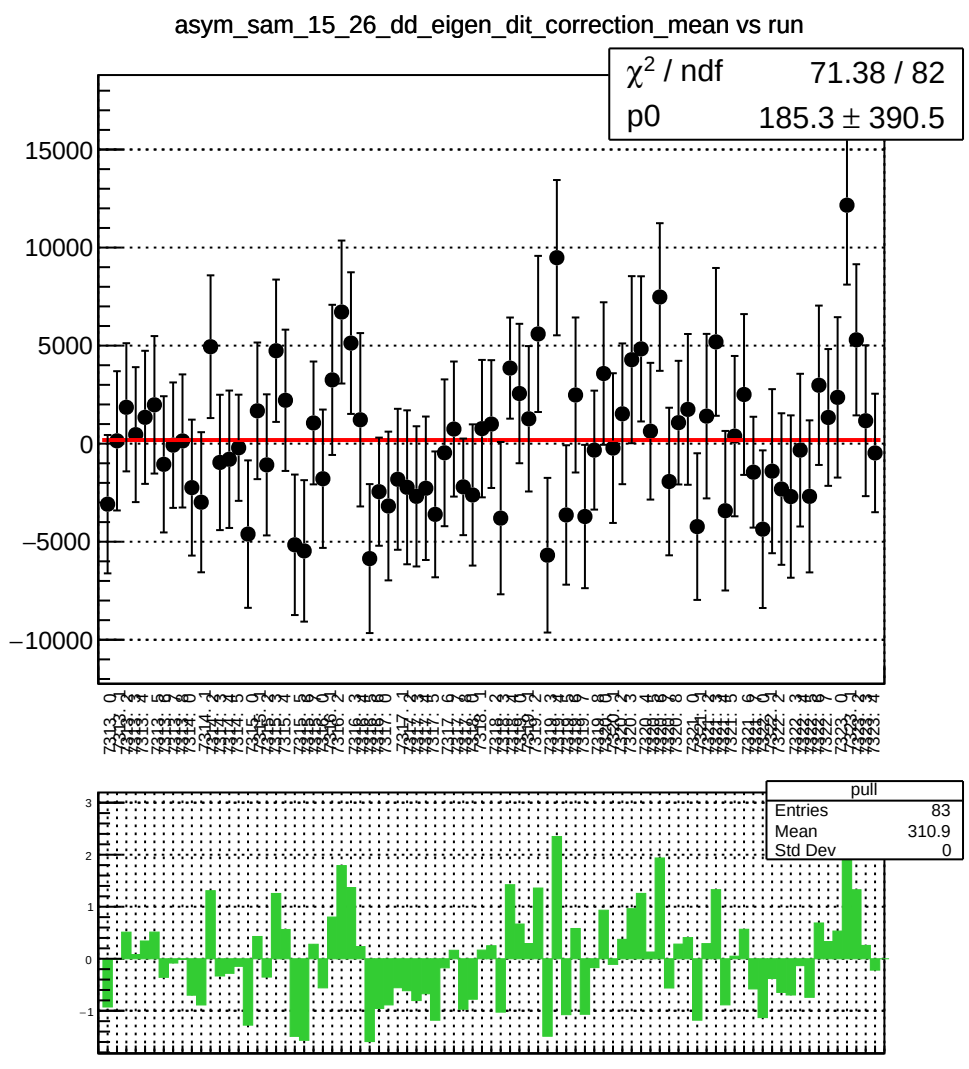

pull1D
Entries 83
Mean 0.01289
Std Dev 0.9272
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

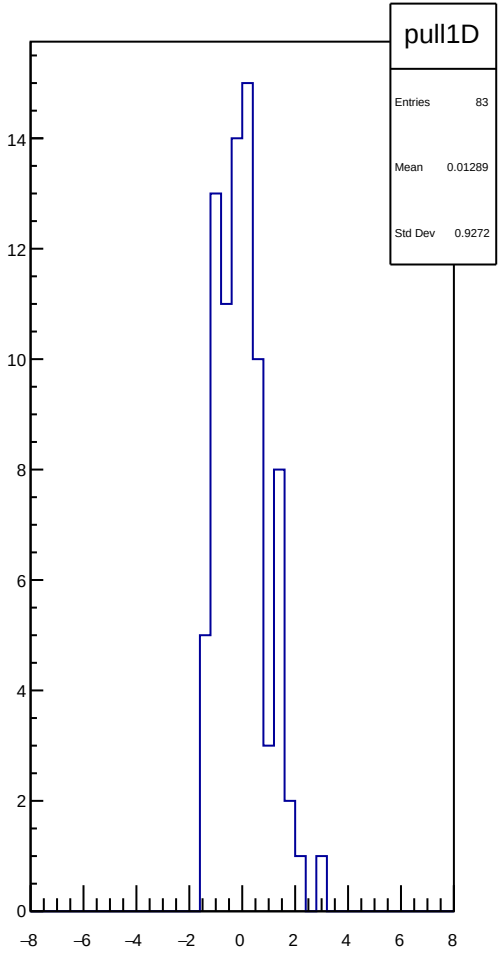

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6666 / 82
p0 349.8 ± 0.2761
420
400
380
360
340
320
300

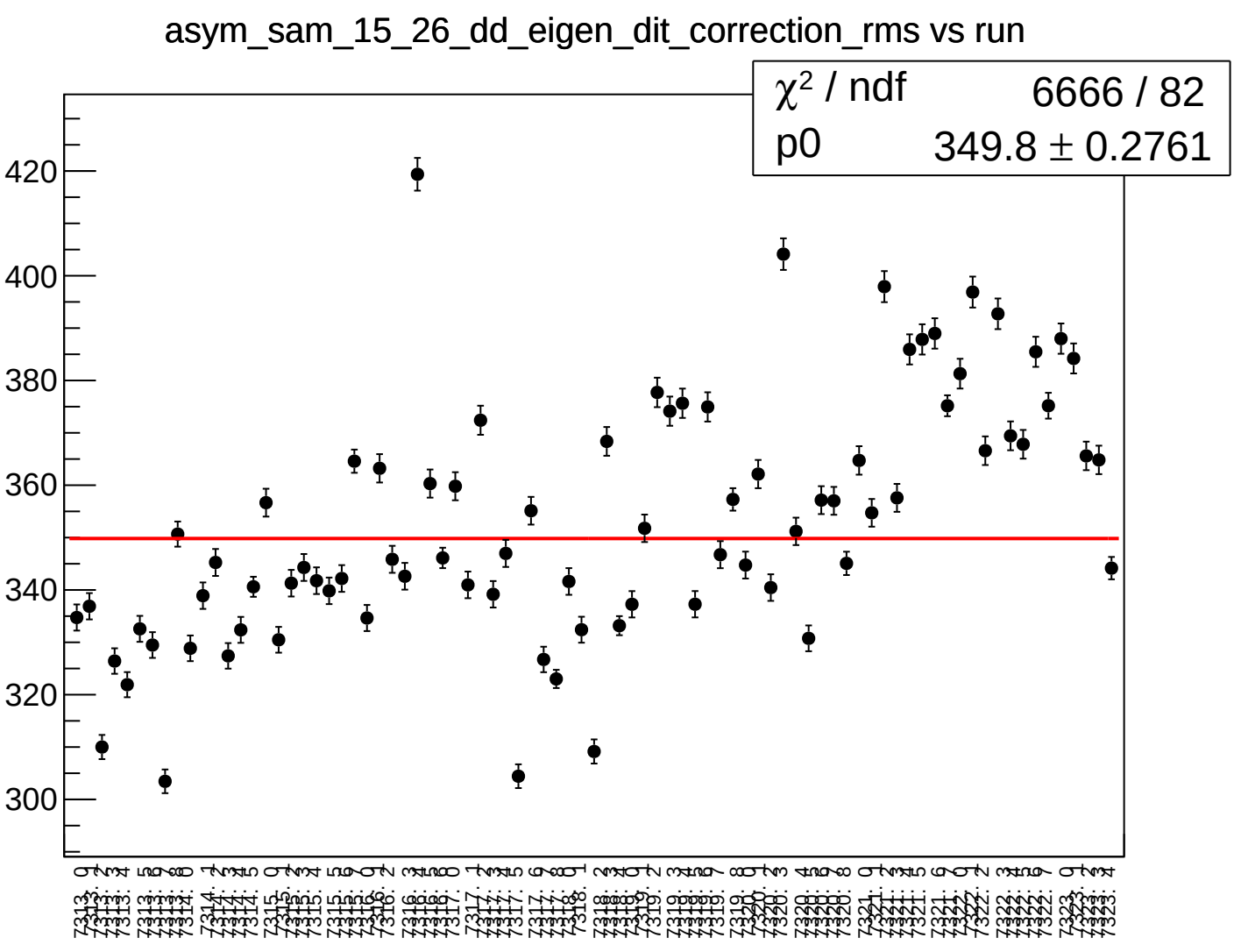

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.73 / 82
p0 118.9 ± 68.2
3000
2000
1000
0
−1000
−2000
pull
Entries 83
Mean −722.5
Std Dev 0
3
2
1
0
−1
−2

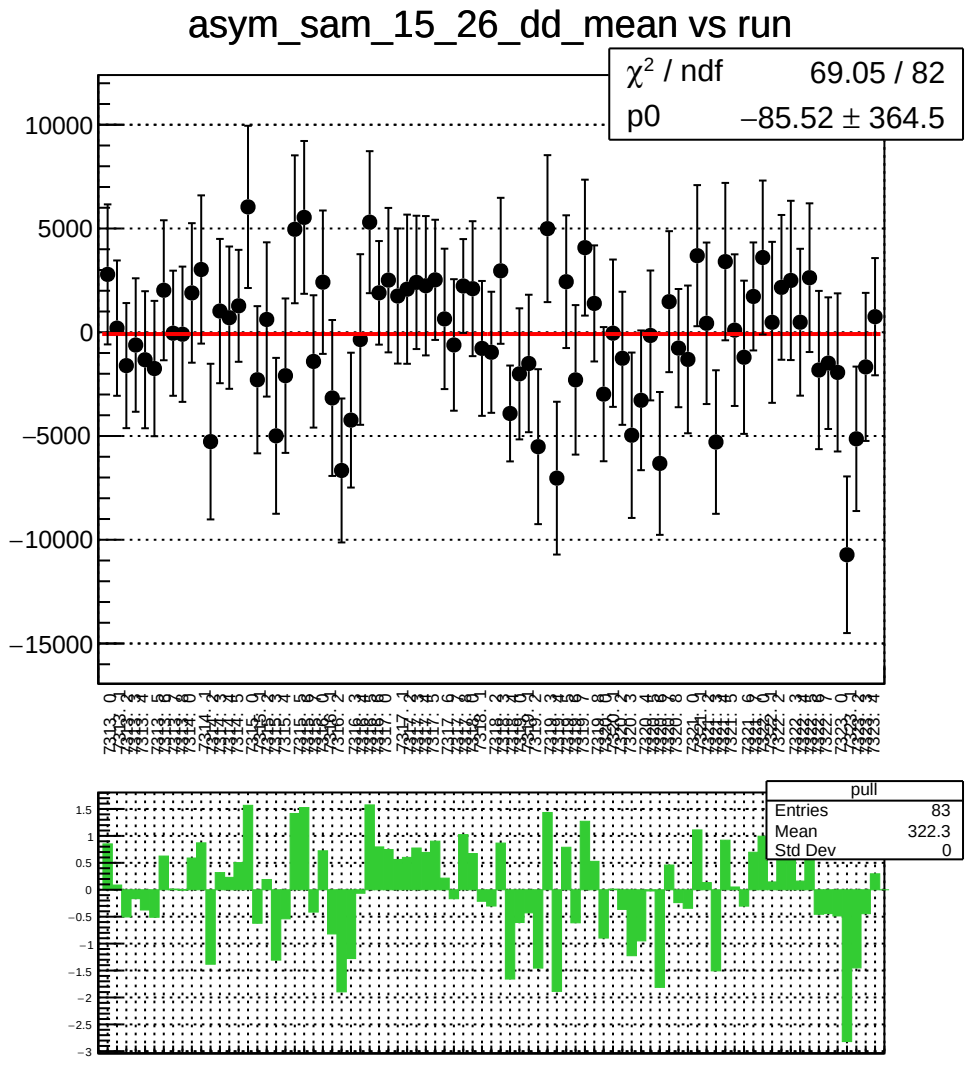

pull1D
Entries 83
Mean −0.003655
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

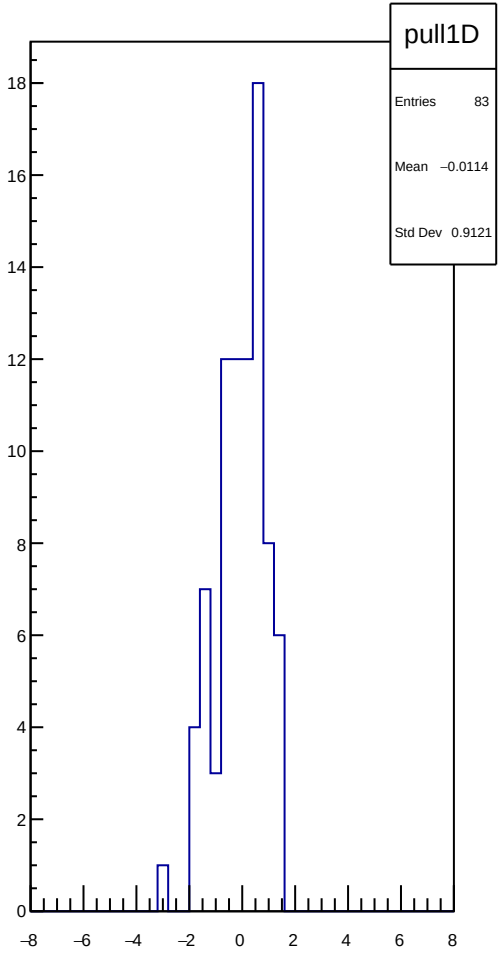

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3052 / 82
p0 61.16 ± 0.04823
70
68
66
64
62
60
58
56
54

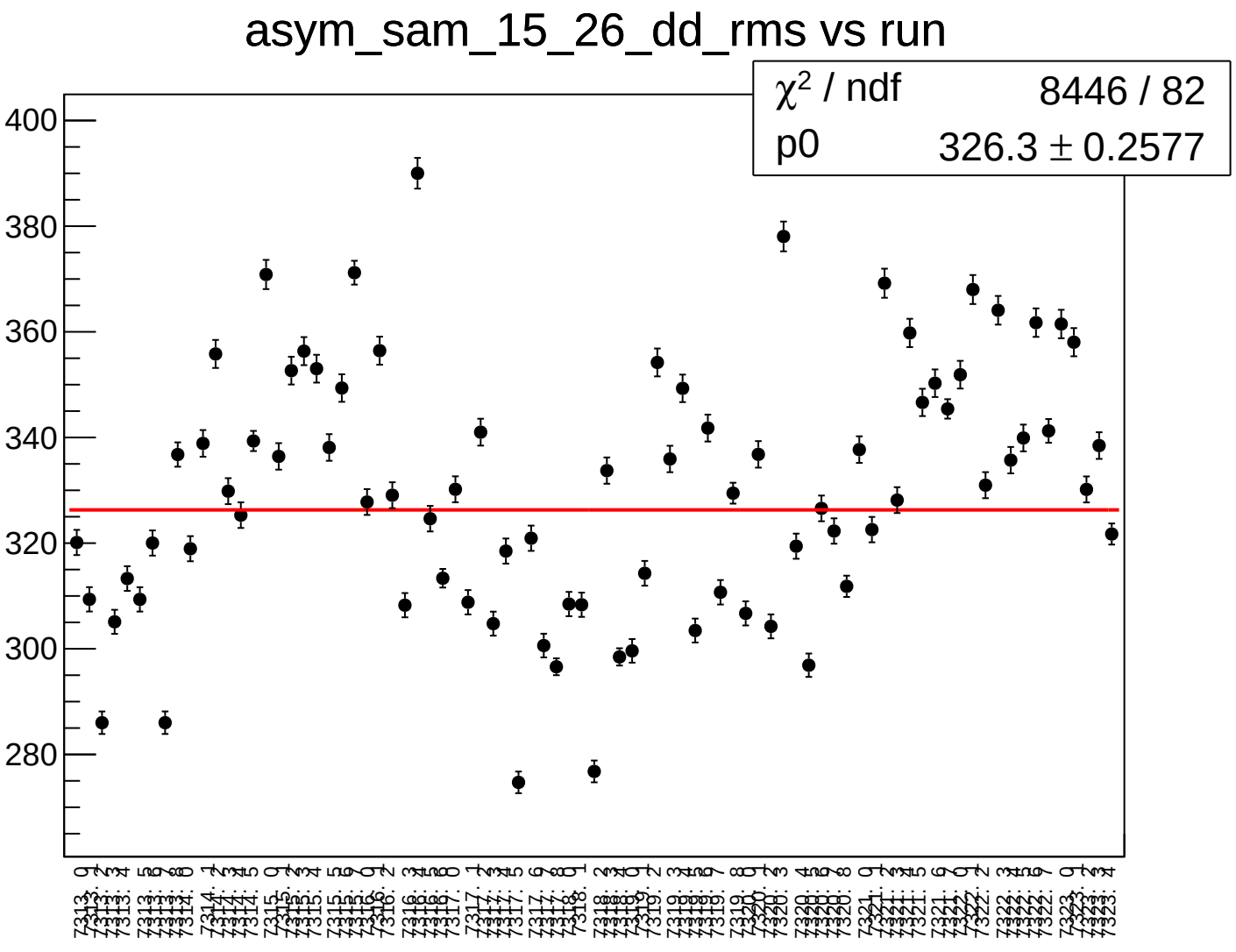

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.38 / 82
p0 185.3 ± 390.5
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 310.9
Std Dev 0
3
2
1
0
−1

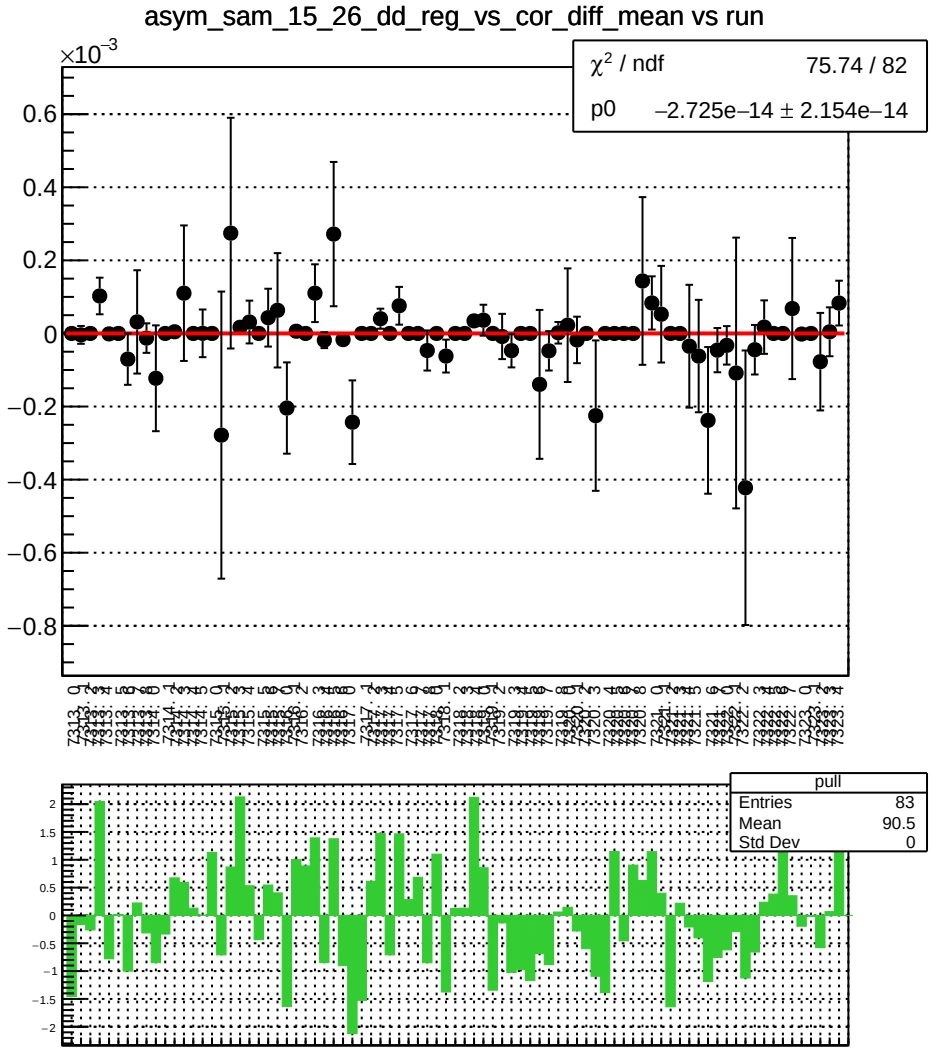

pull1D
Entries 83
Mean 0.01289
Std Dev 0.9272
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

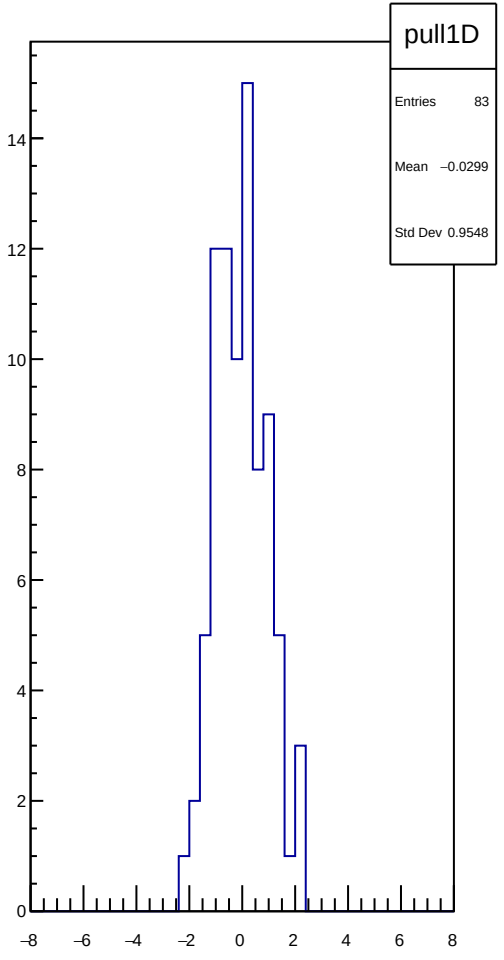

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6666 / 82
p0 349.8 ± 0.2761
420
400
380
360
340
320
300

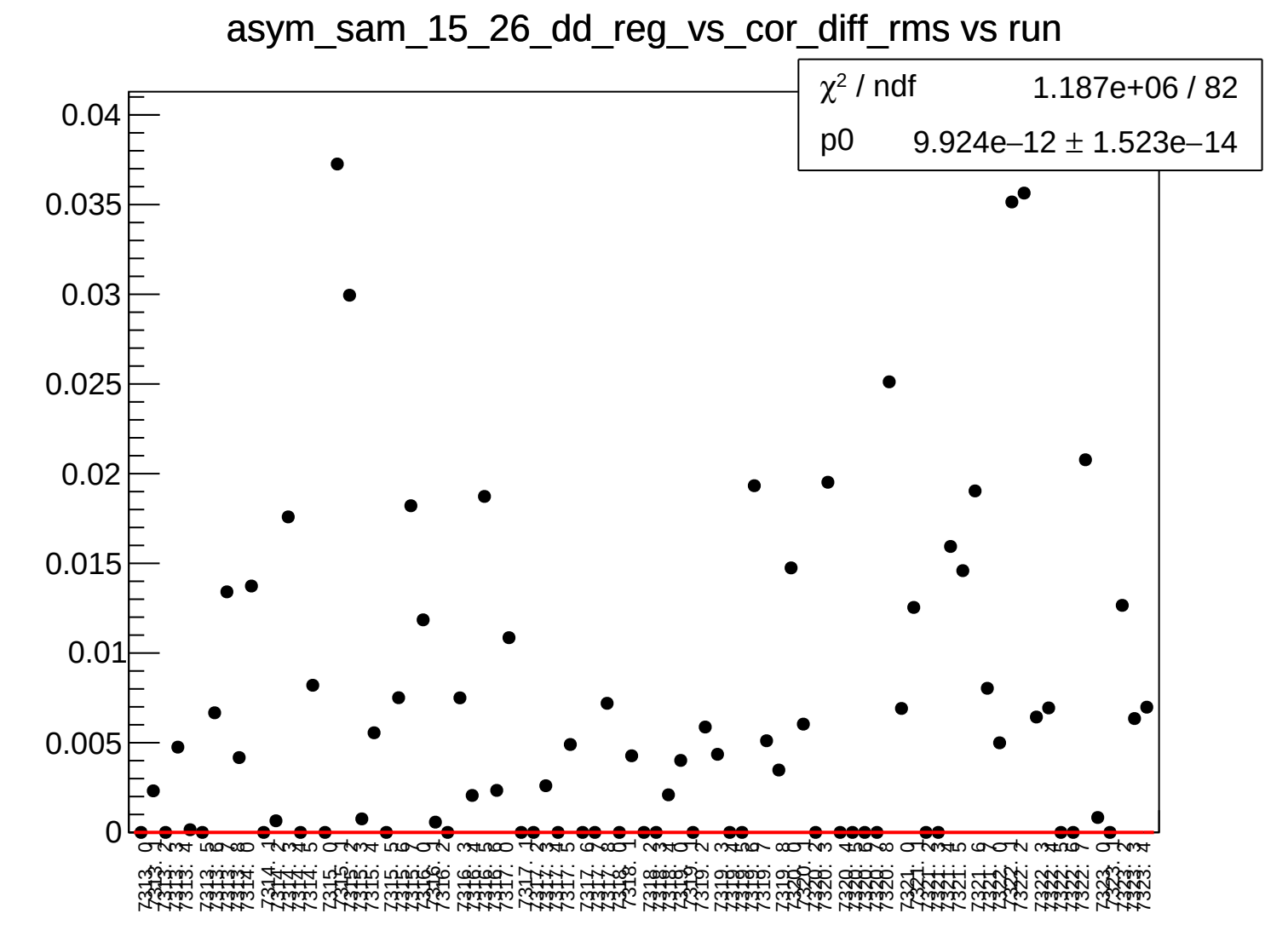

asym_sam_15_26_dd_mean vs run
χ² / ndf 69.05 / 82
p0 −85.52 ± 364.5
pull
Entries 83
Mean 322.3
Std Dev 0

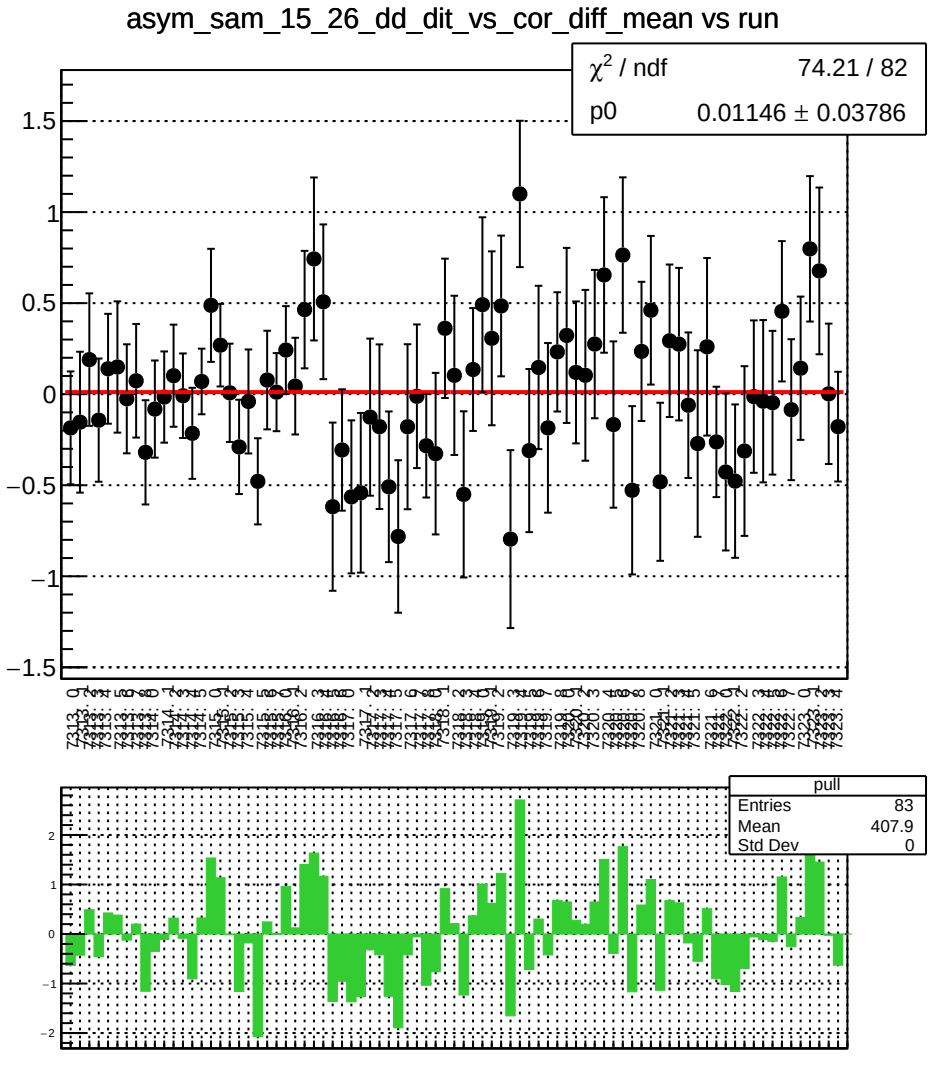

pull1D
Entries 83
Mean −0.0114
Std Dev 0.9121

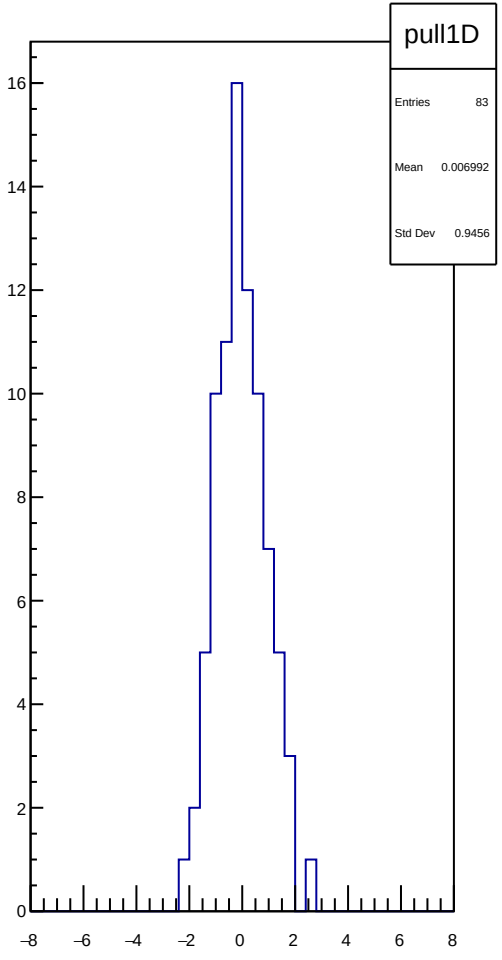

asym_sam_15_26_dd_rms vs run
χ² / ndf 8446 / 82
p0 326.3 ± 0.2577
400
380
360
340
320
300
280

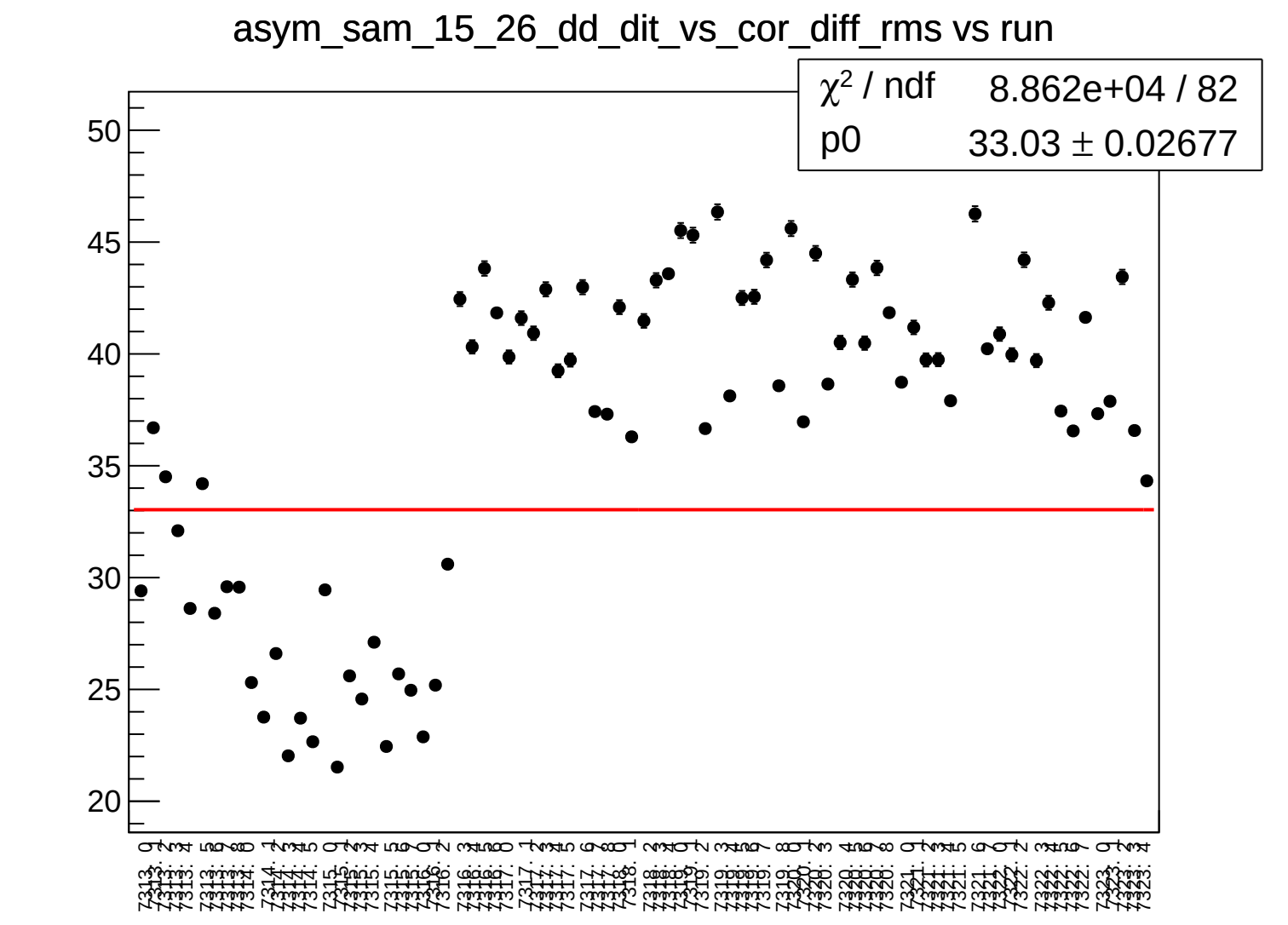

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 75.74 / 82
p0 −2.725e−14 ± 2.154e−14
pull
Entries 83
Mean 90.5
Std Dev 0

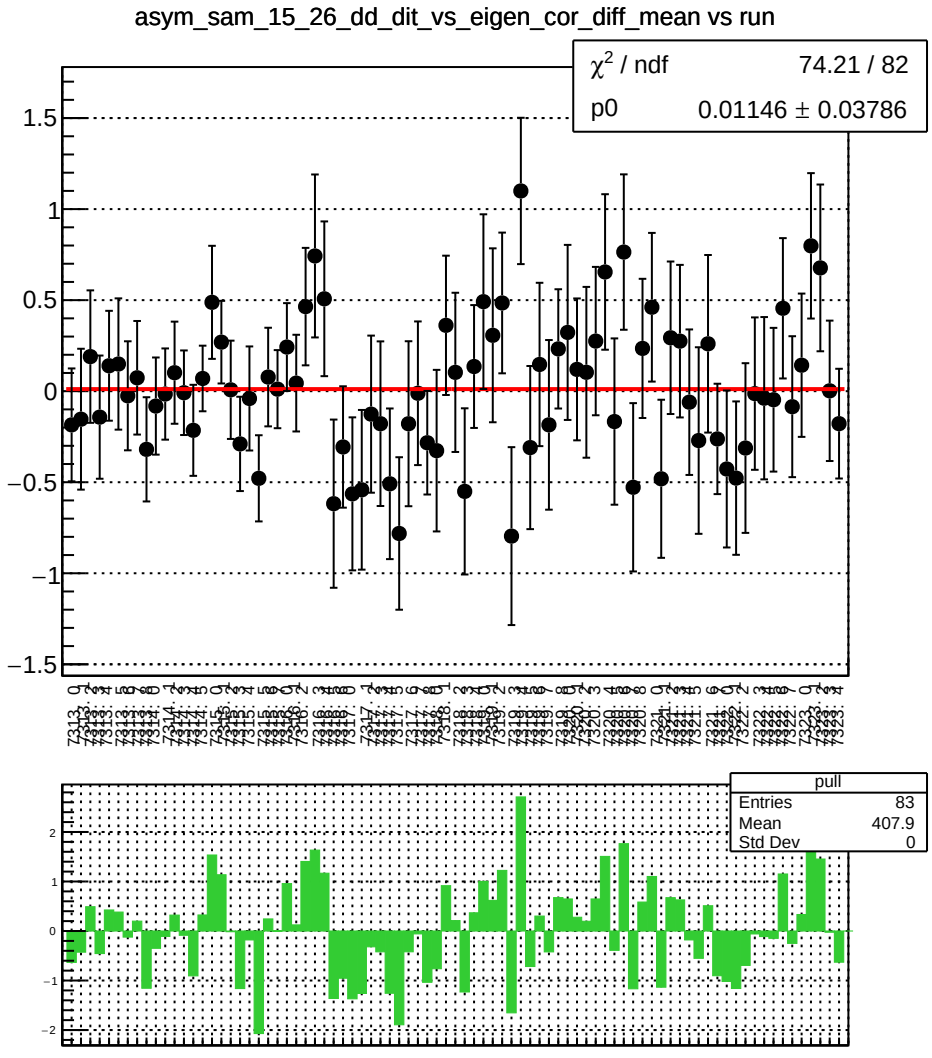

pull1D
Entries 83
Mean −0.0299
Std Dev 0.9548

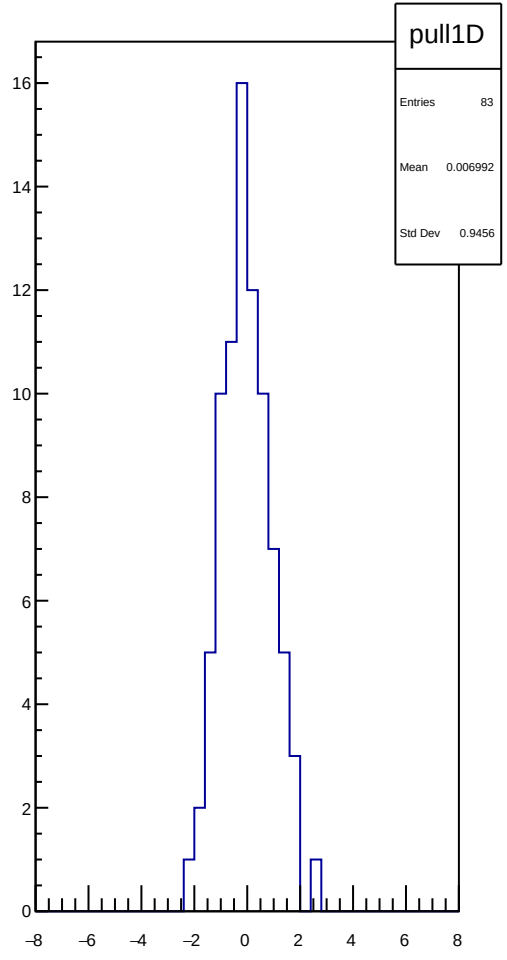

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.187e+06 / 82
p0 9.924e−12 ± 1.523e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

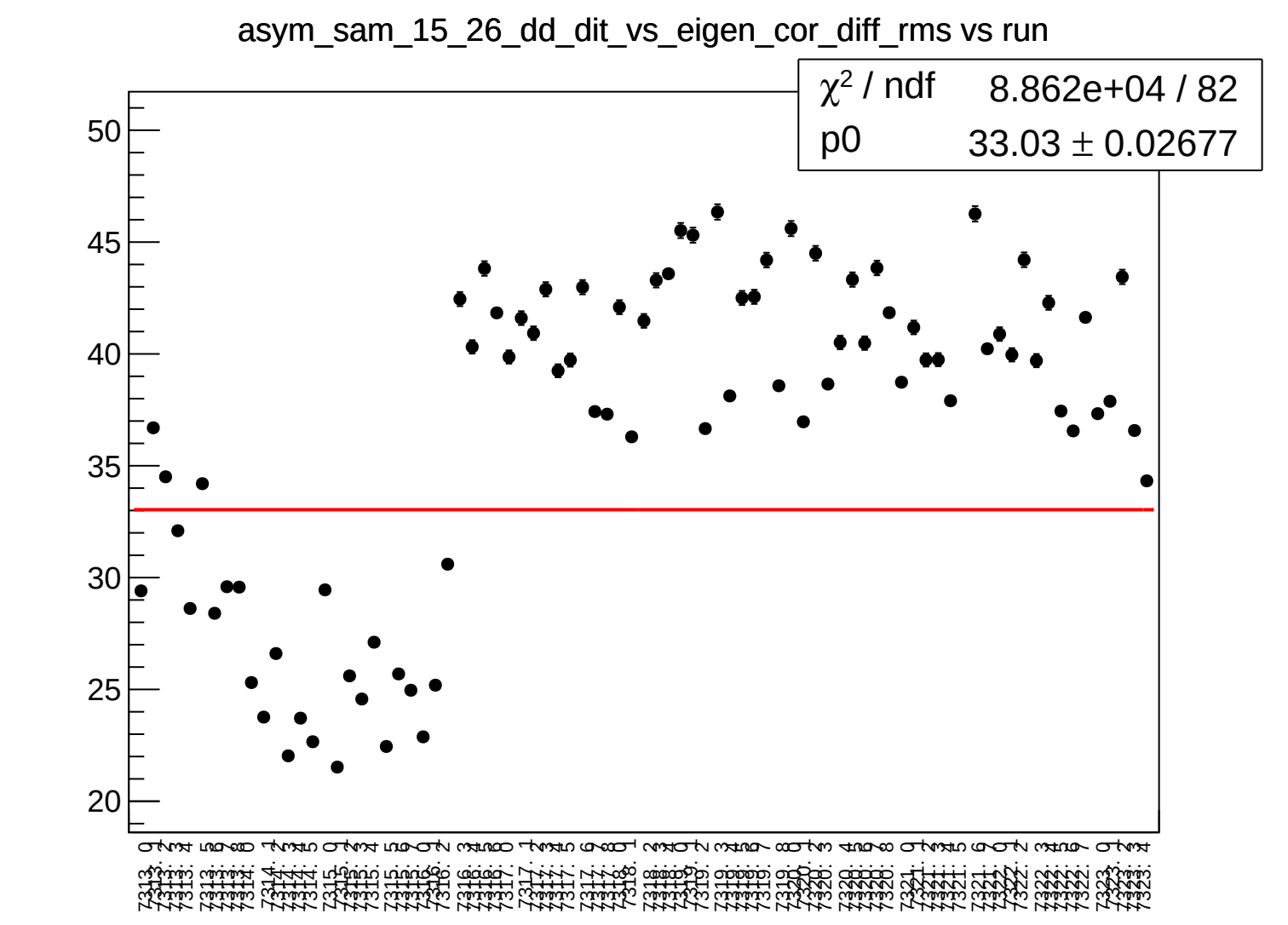

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 82
p0 0.01146 ± 0.03786
pull
Entries 83
Mean 407.9
Std Dev 0

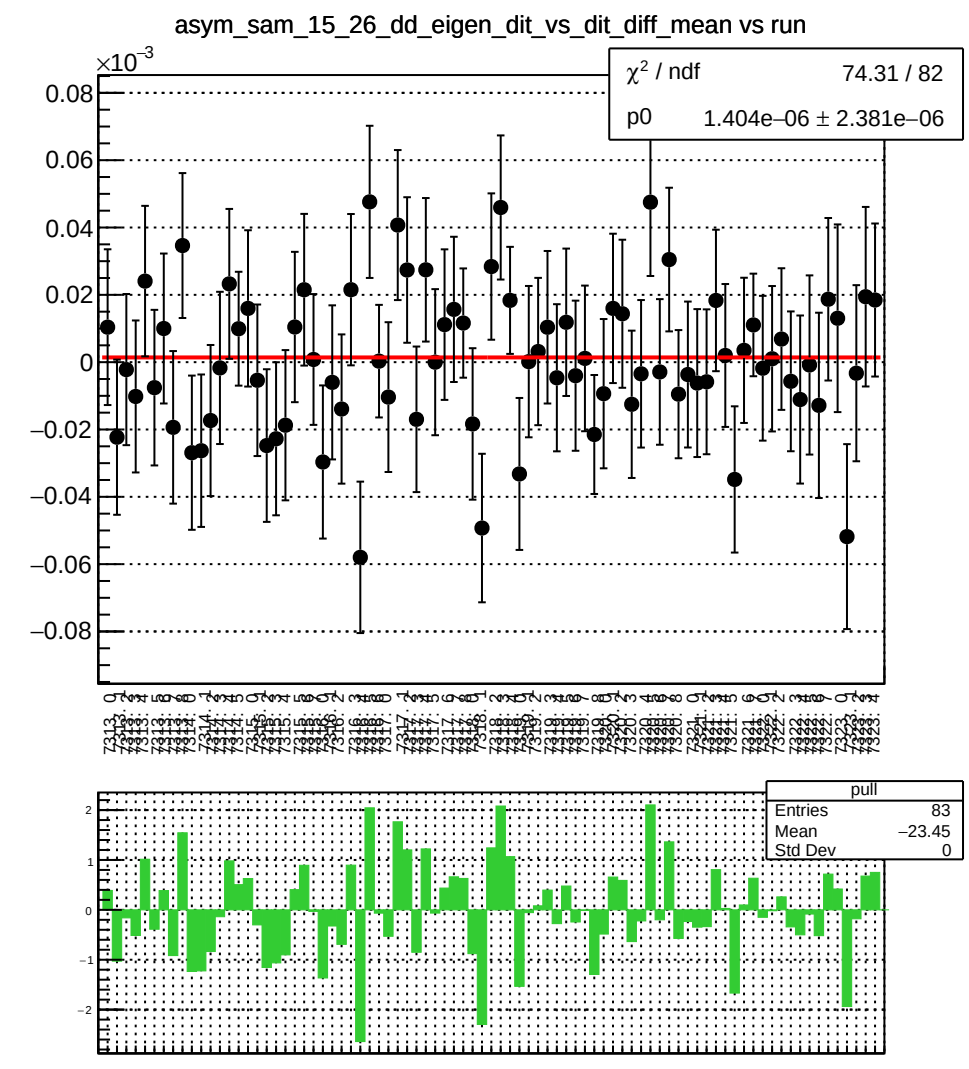

pull1D
Entries 83
Mean 0.006992
Std Dev 0.9456

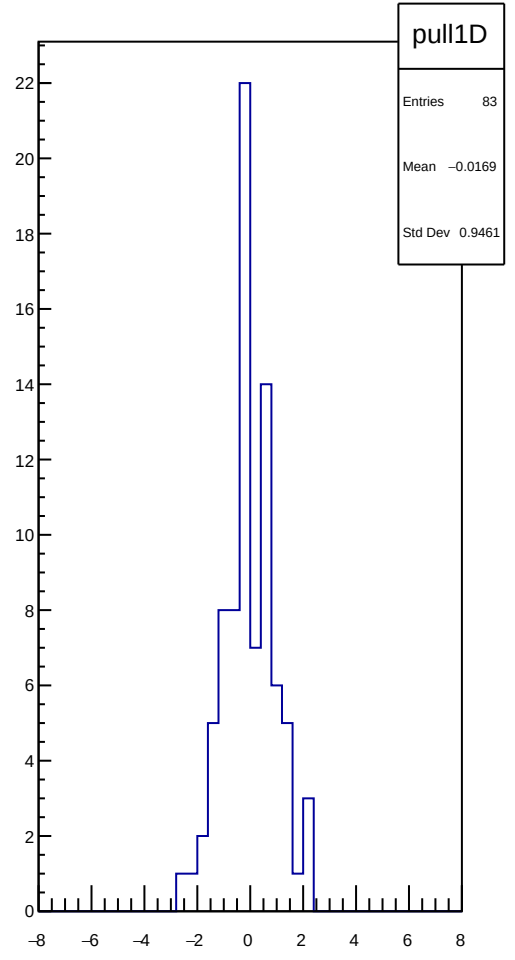

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.862e+04 / 82
p0 33.03 ± 0.02677
50
45
40
35
30
25
20

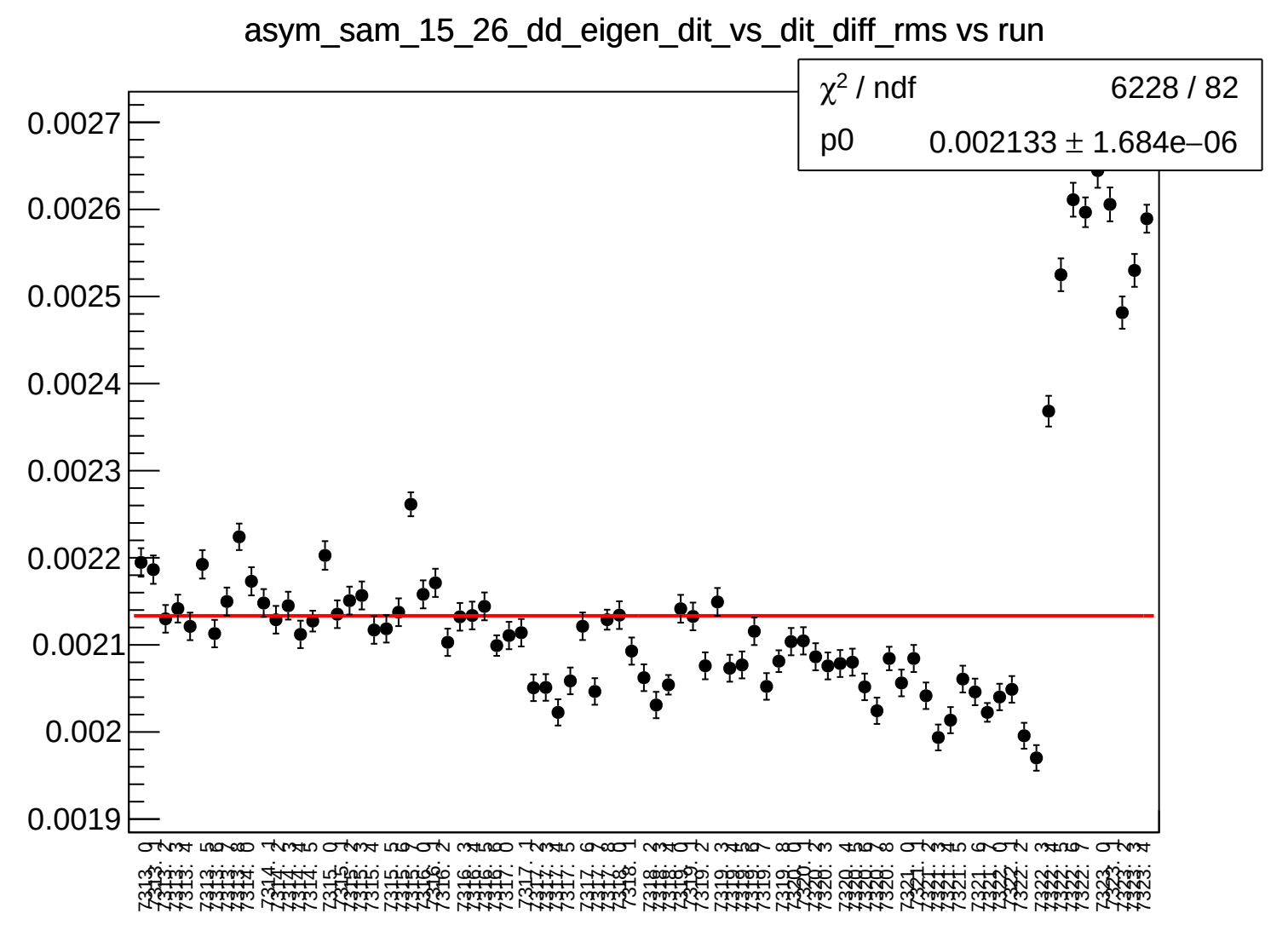

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.21 / 82
p0 0.01146 ± 0.03786
pull
Entries 83
Mean 407.9
Std Dev 0

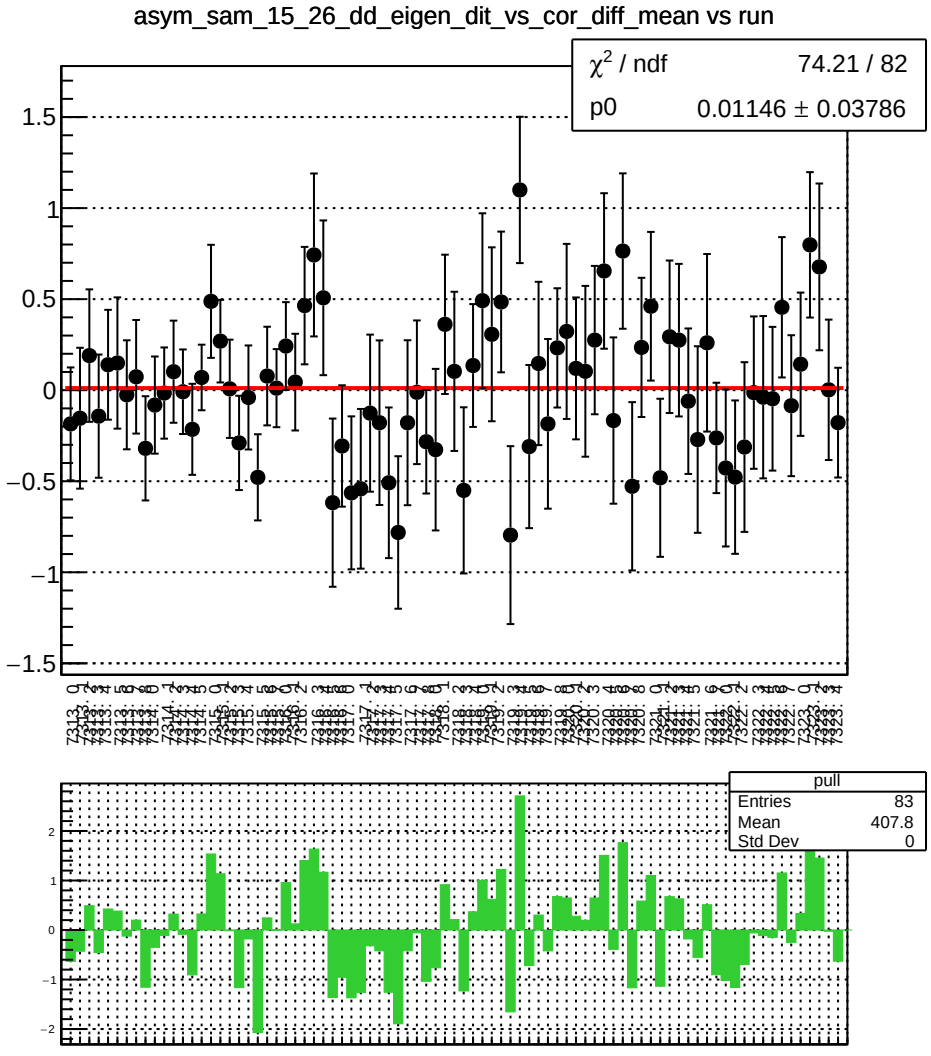

pull1D
Entries 83
Mean 0.006992
Std Dev 0.9456

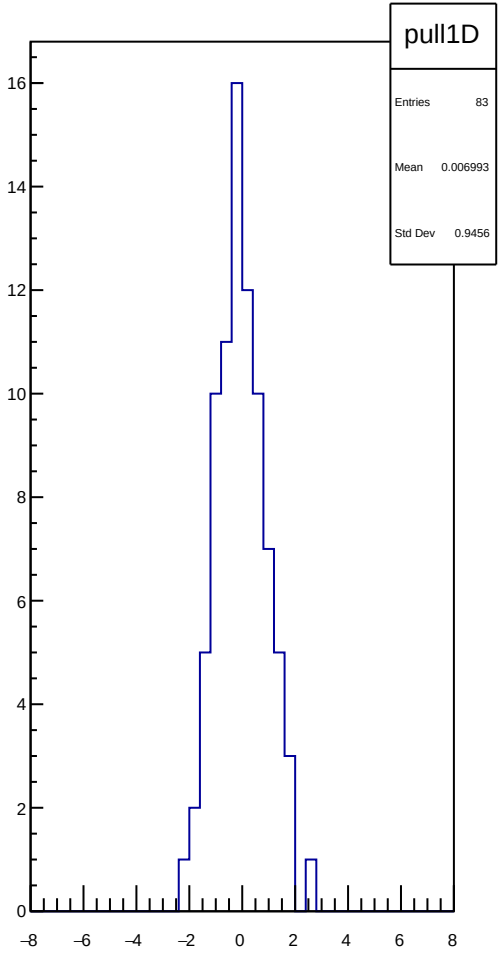

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.862e+04 / 82
p0 33.03 ± 0.02677
50
45
40
35
30
25
20

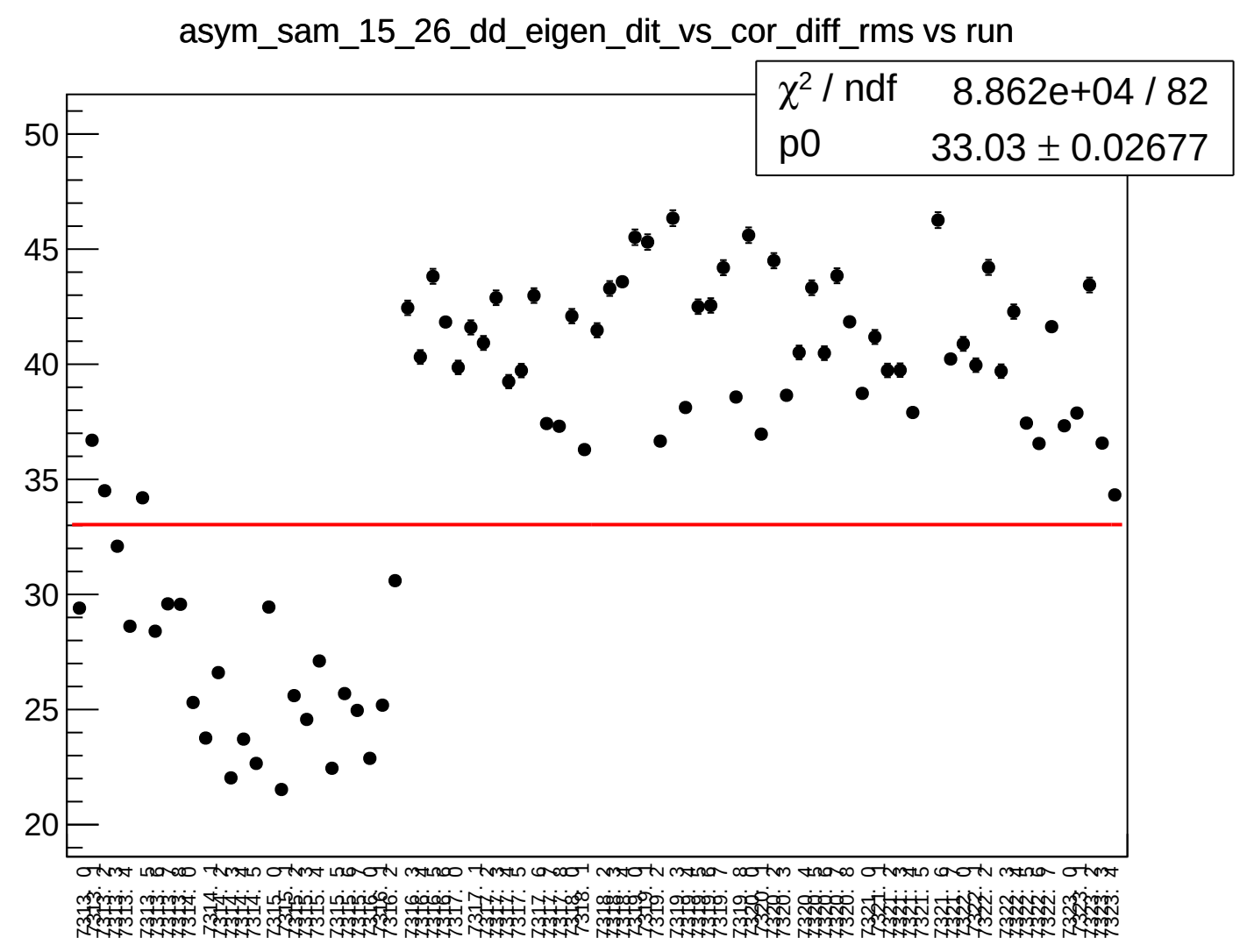

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.31 / 82
p0 1.404e−06 ± 2.381e−06
pull
Entries 83
Mean −23.45
Std Dev 0

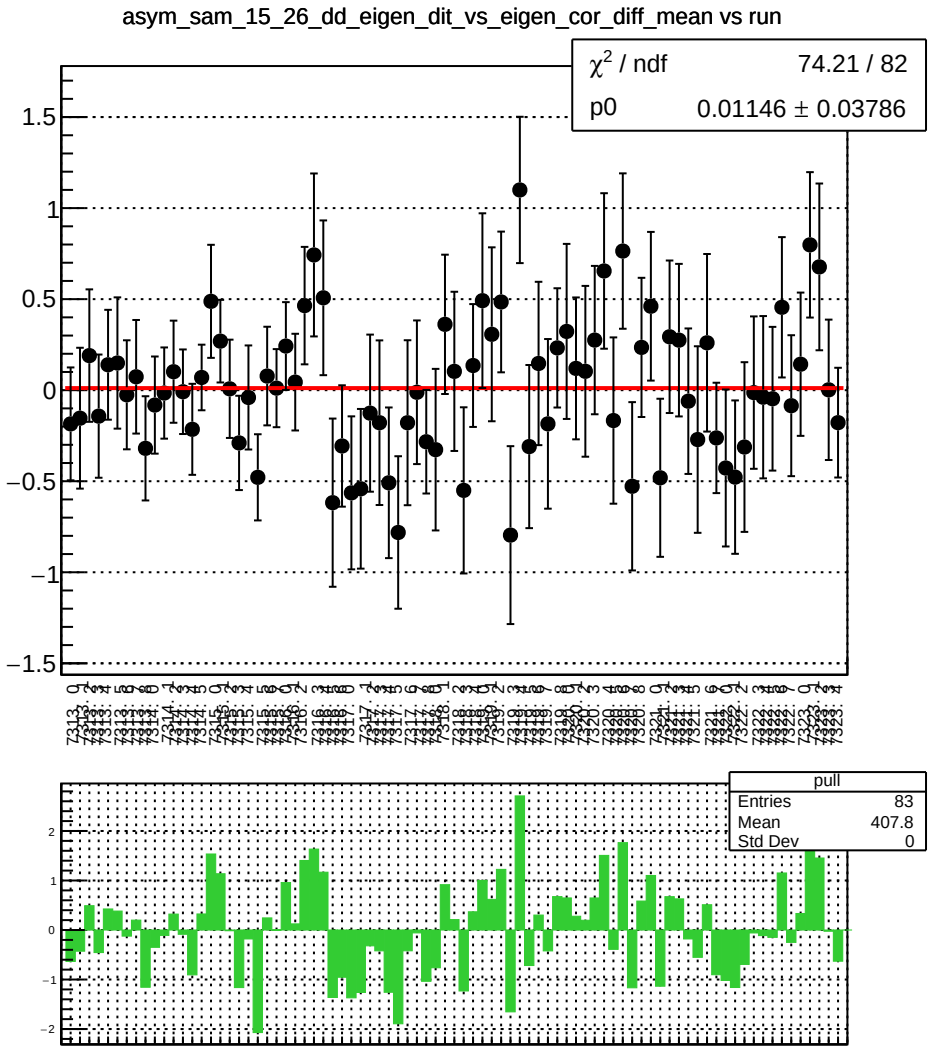

pull1D
Entries 83
Mean −0.0169
Std Dev 0.9461

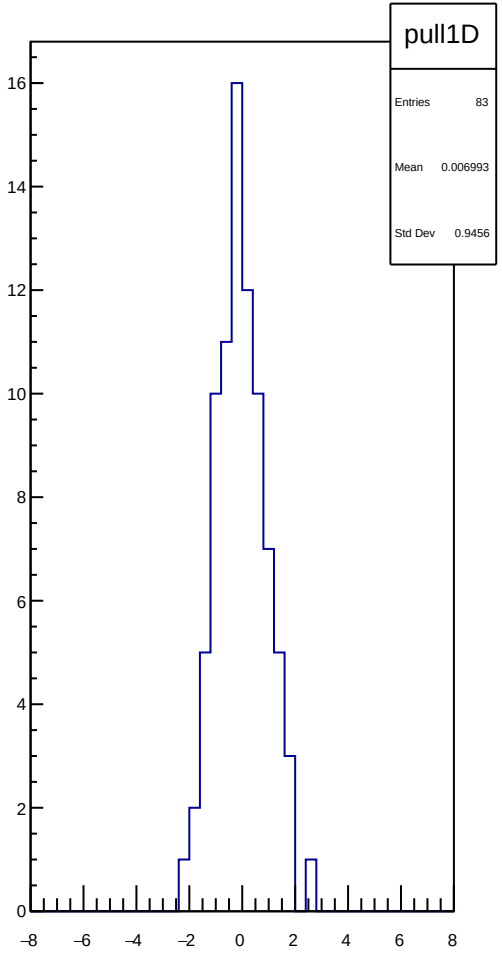

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6228 / 82
p0 0.002133 ± 1.684e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

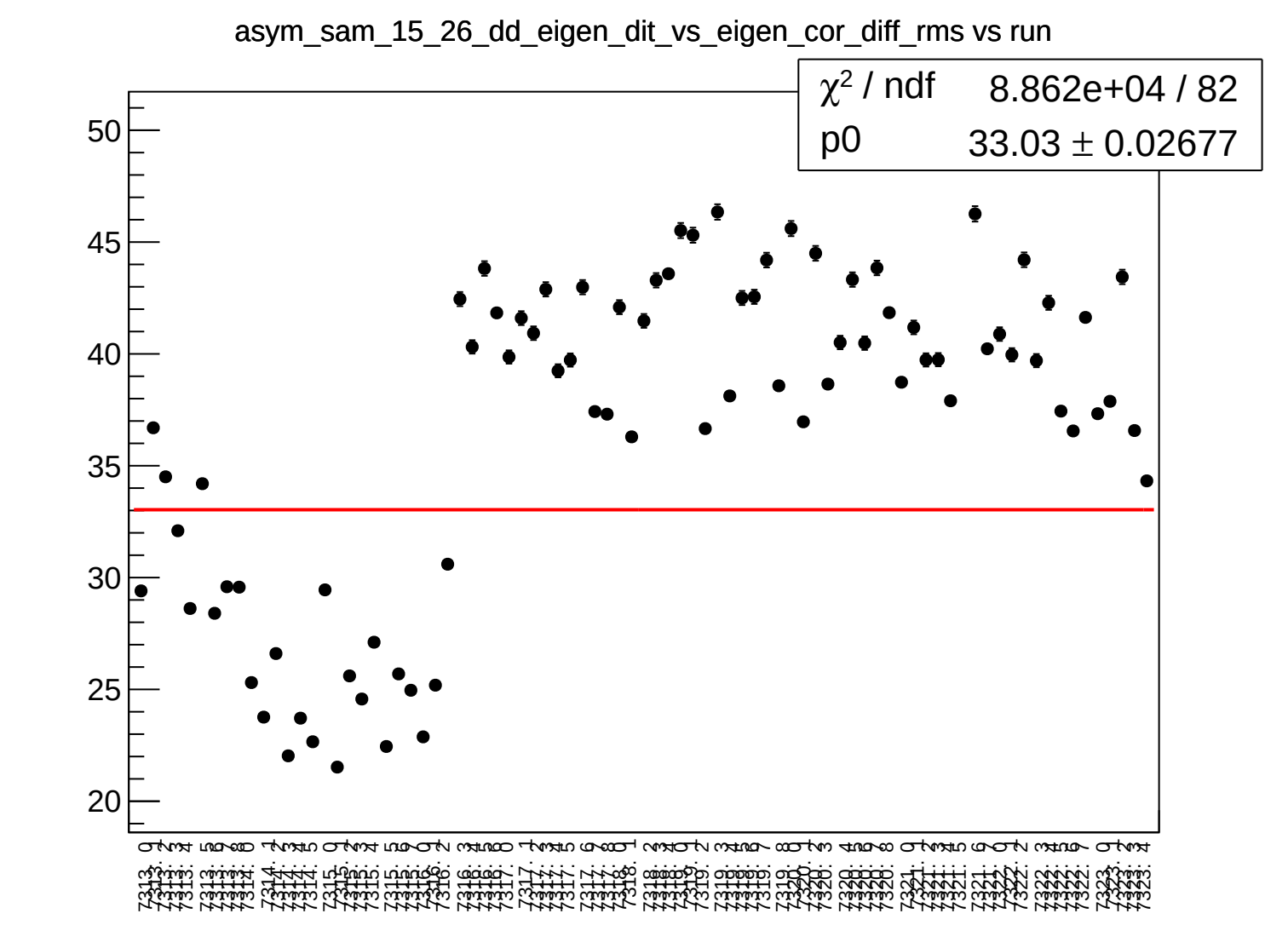

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 82
p0 0.01146 ± 0.03786
pull
Entries 83
Mean 407.8
Std Dev 0

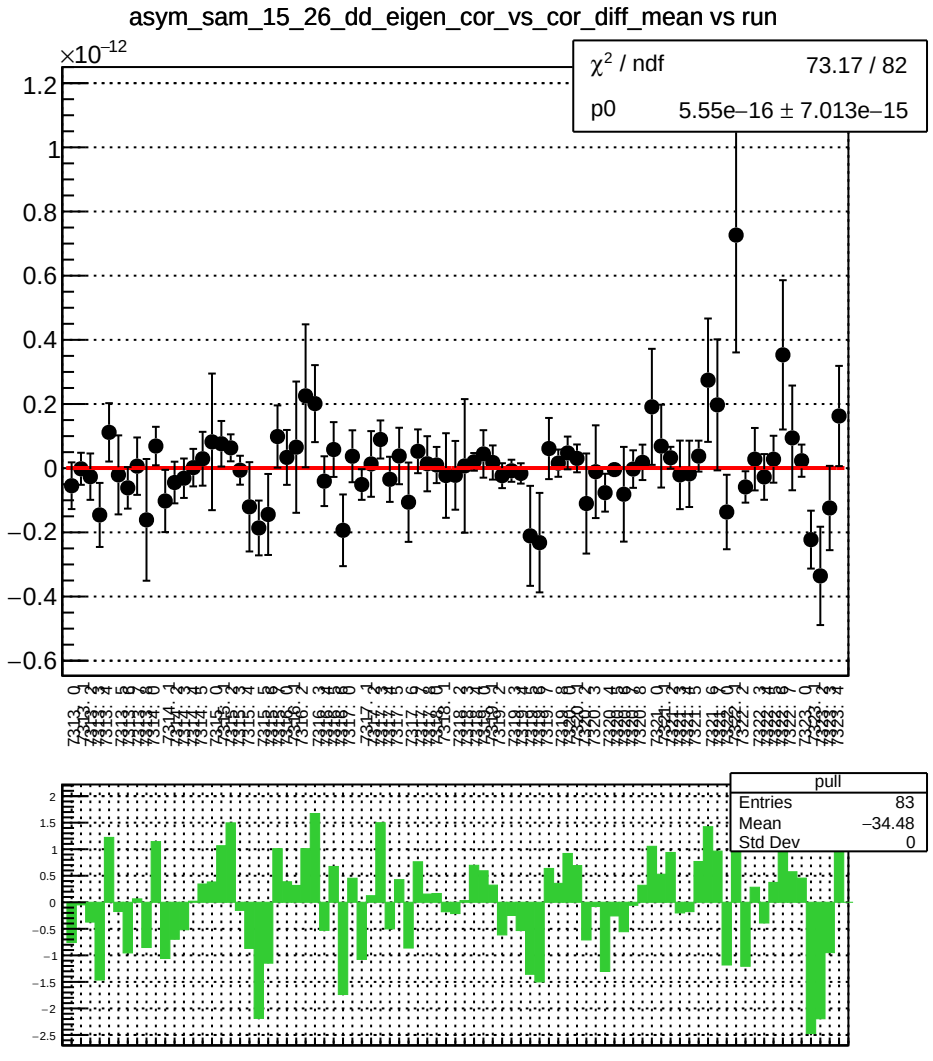

pull1D
Entries 83
Mean 0.006993
Std Dev 0.9456

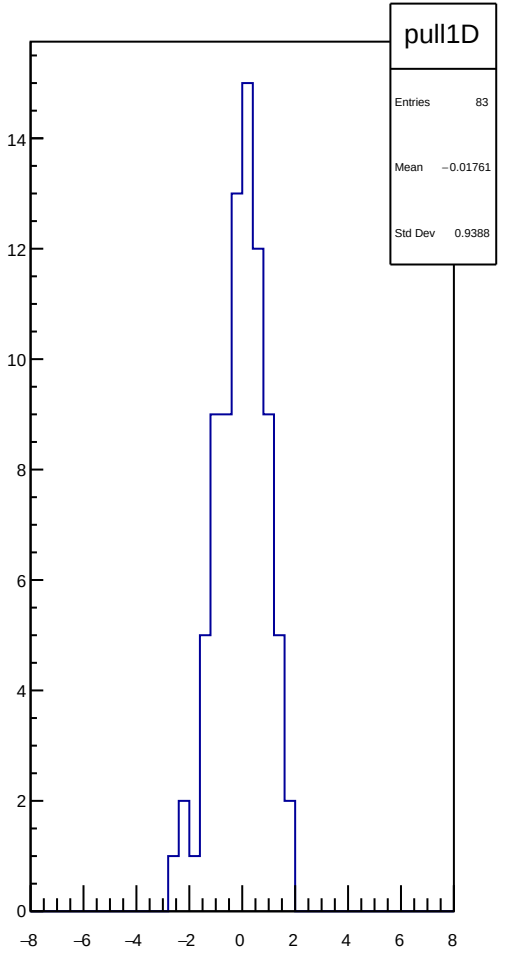

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.862e+04 / 82
p0 33.03 ± 0.02677
50
45
40
35
30
25
20

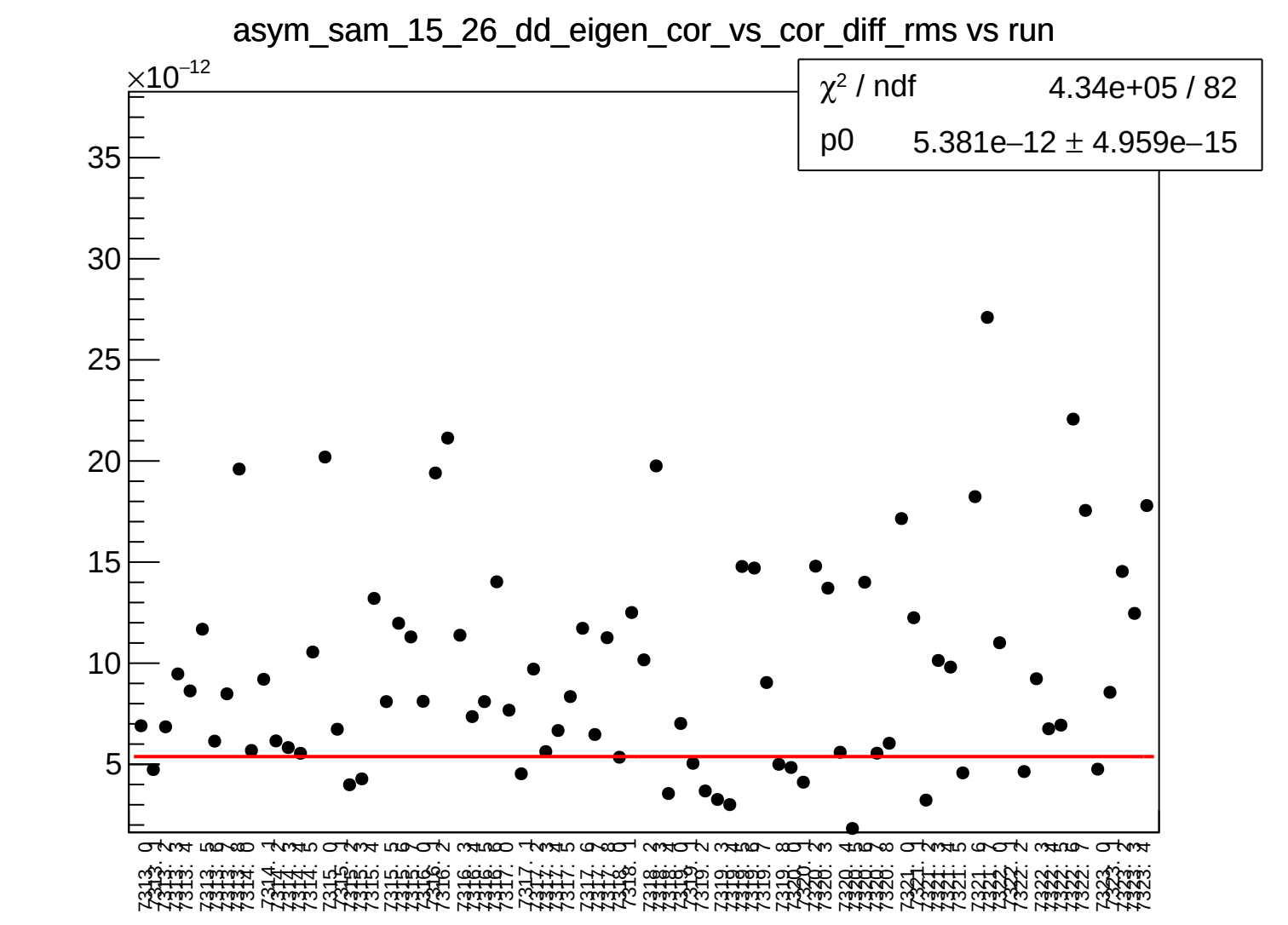

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.21 / 82
p0 0.01146 ± 0.03786
pull
Entries 83
Mean 407.8
Std Dev 0

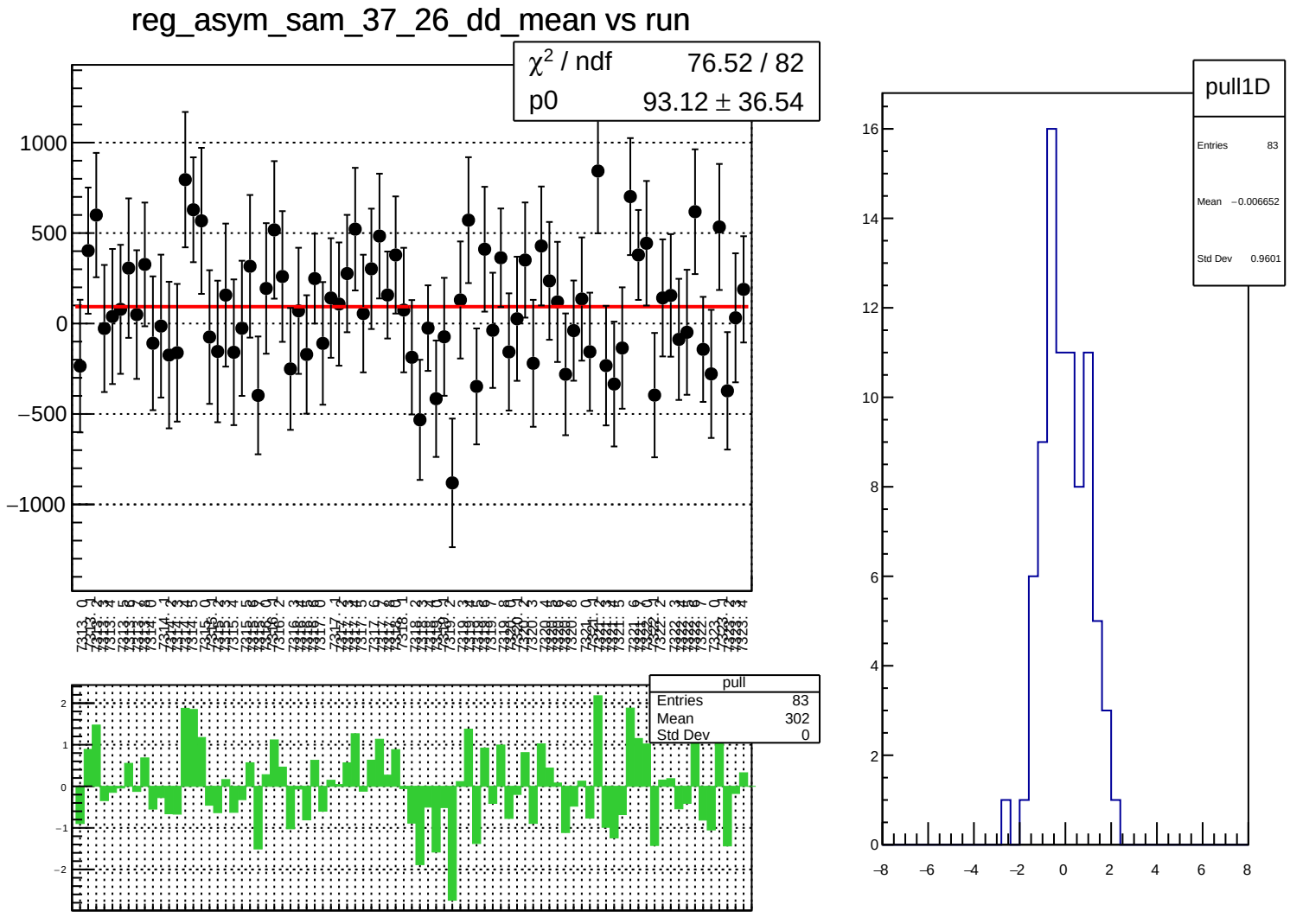

pull1D
Entries 83
Mean 0.006993
Std Dev 0.9456

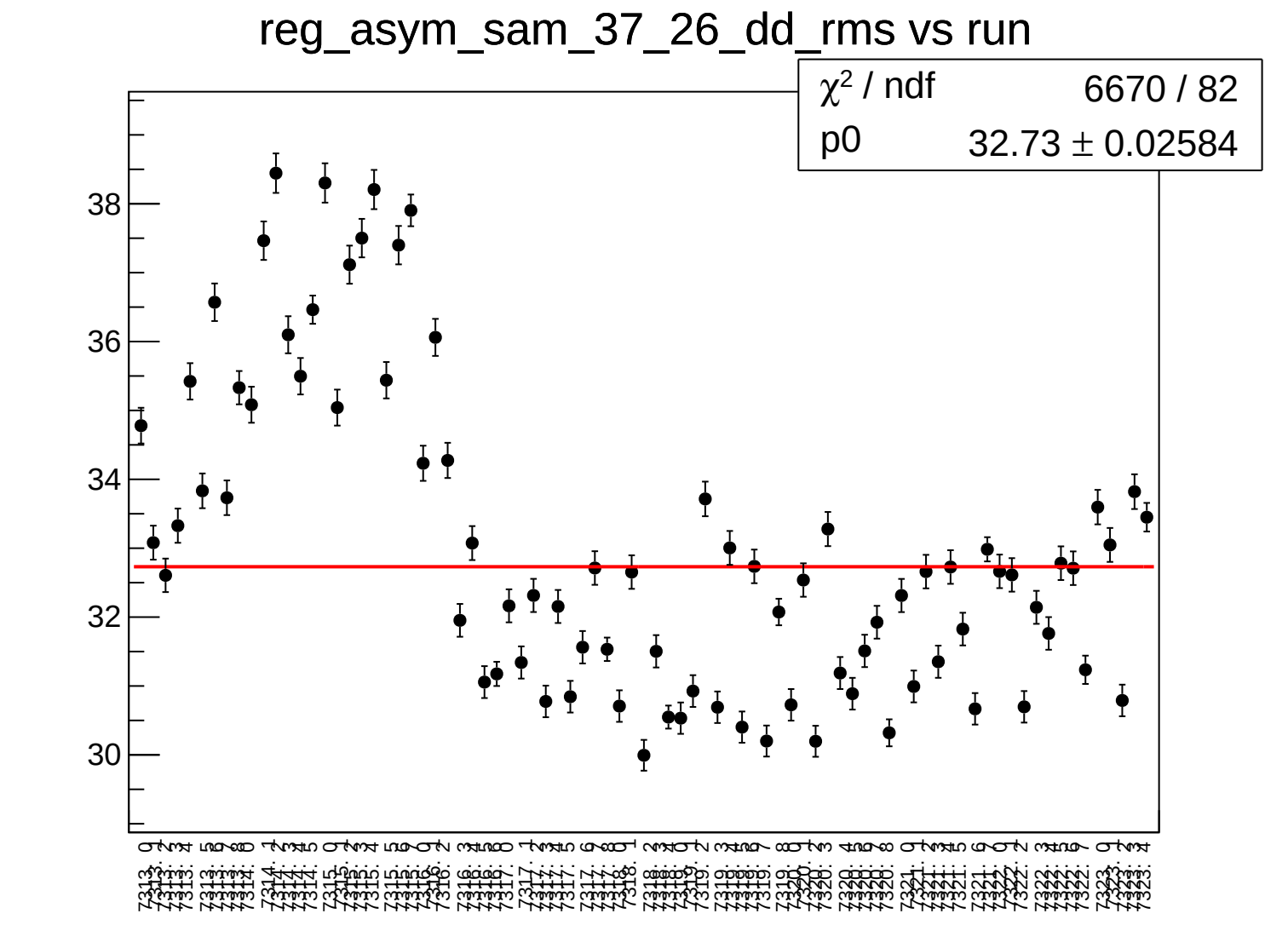

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.862e+04 / 82
p0 33.03 ± 0.02677
50
45
40
35
30
25
20

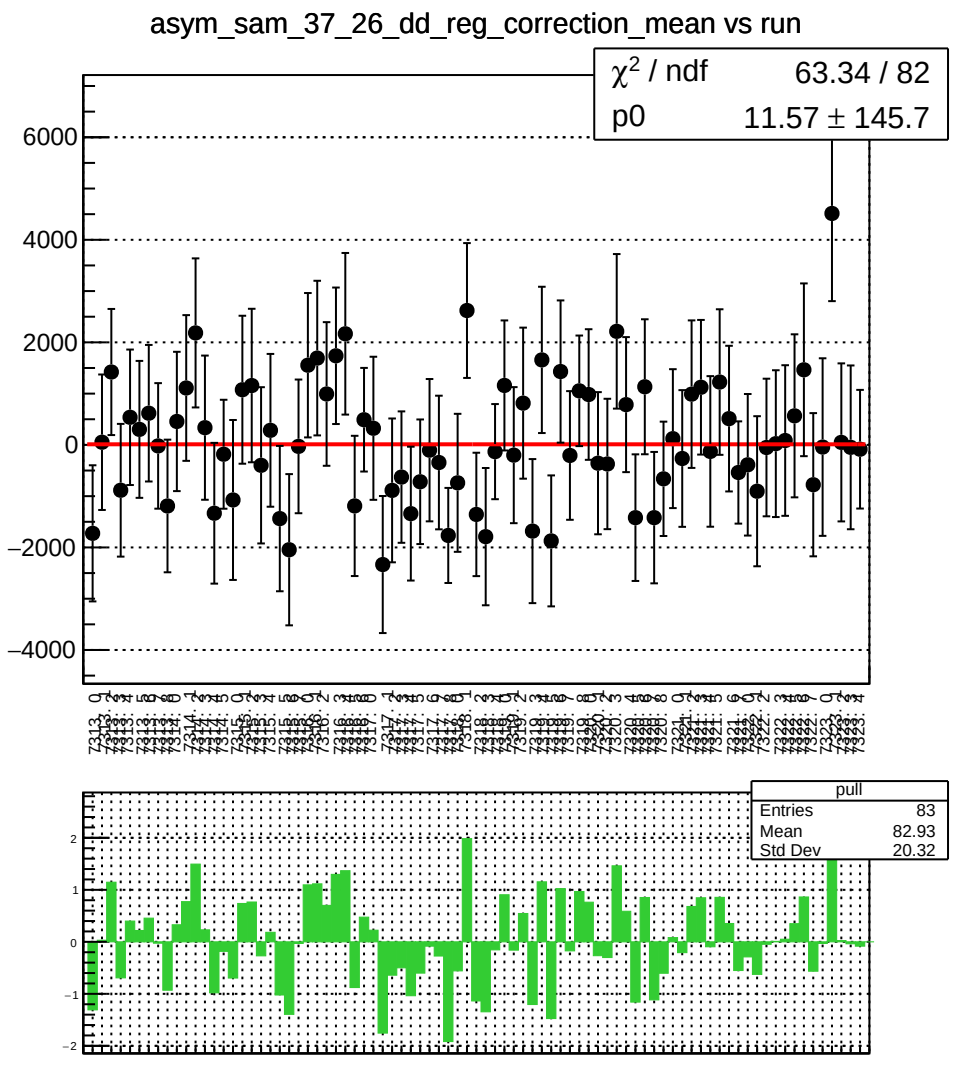

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.17 / 82
p0 5.55e−16 ± 7.013e−15
pull
Entries 83
Mean −34.48
Std Dev 0

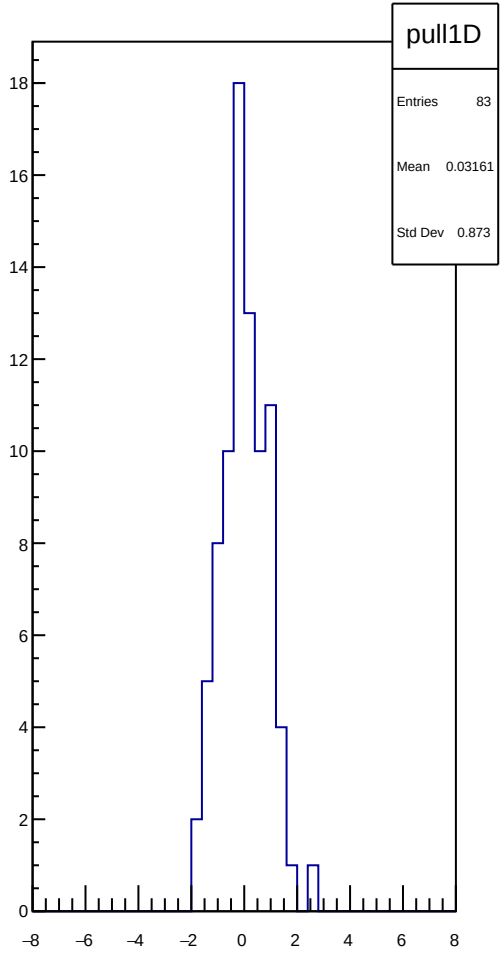

pull1D
Entries 83
Mean −0.01761
Std Dev 0.9388

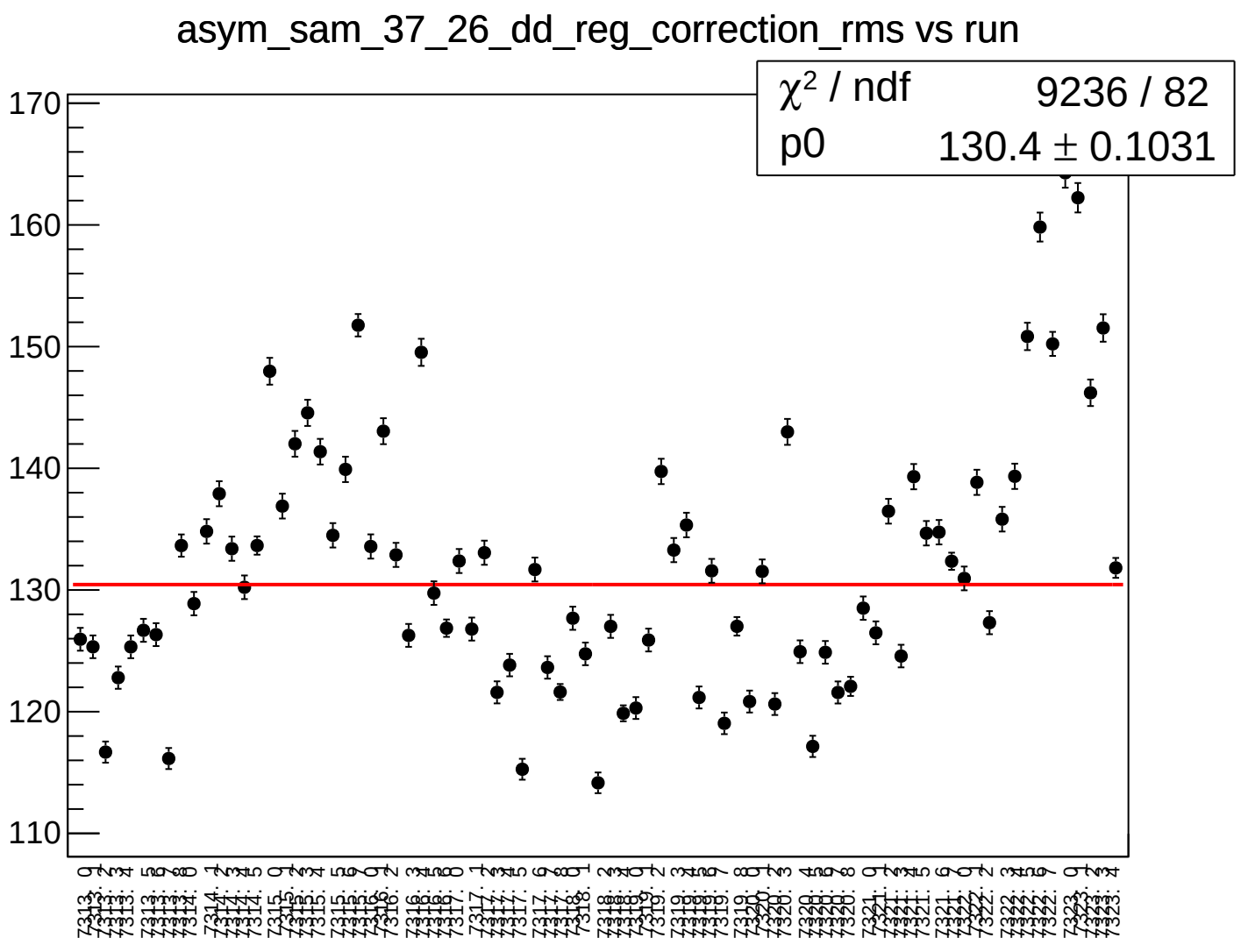

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.34e+05 / 82
p0 5.381e−12 ± 4.959e−15
35
30
25
20
15
10
5

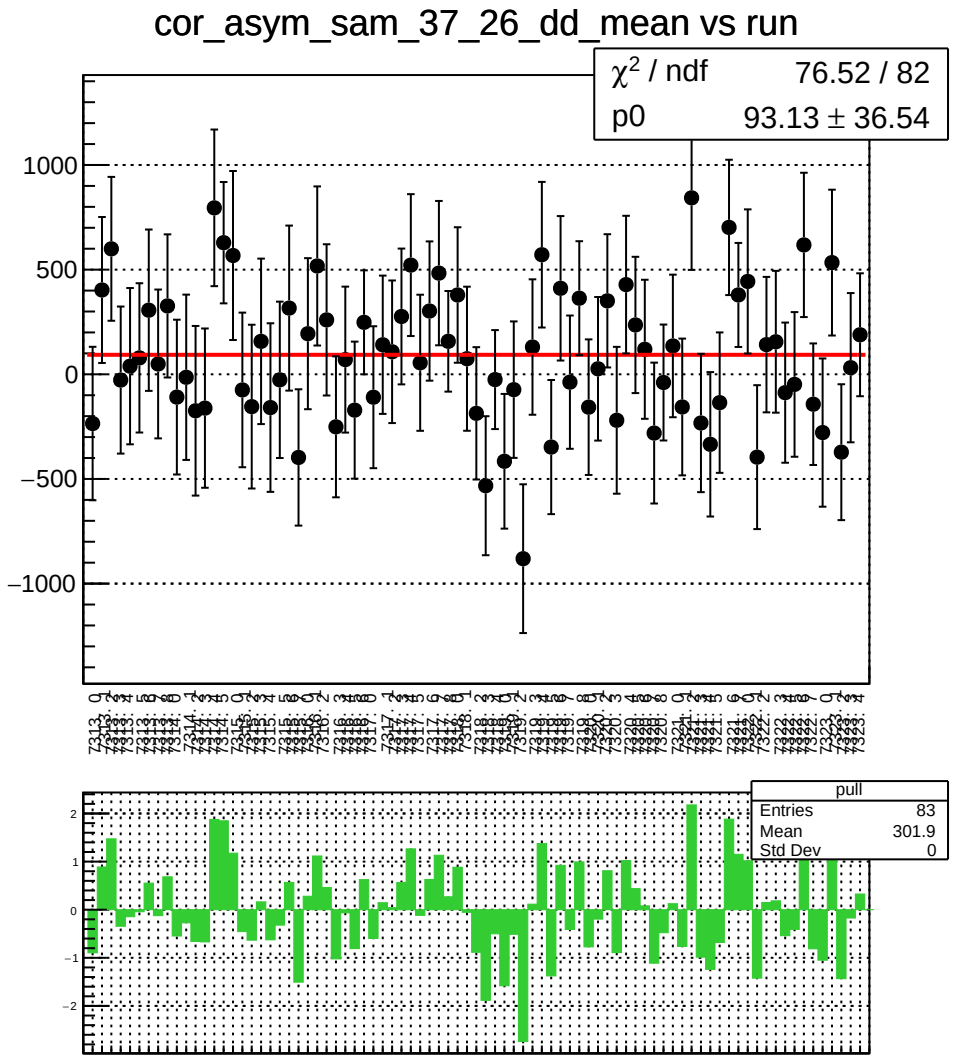

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.52 / 82
p0 93.12 ± 36.54
1000
500
0
−500
−1000
pull
Entries 83
Mean 302
Std Dev 0
pull1D
Entries 83
Mean −0.006652
Std Dev 0.9601
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

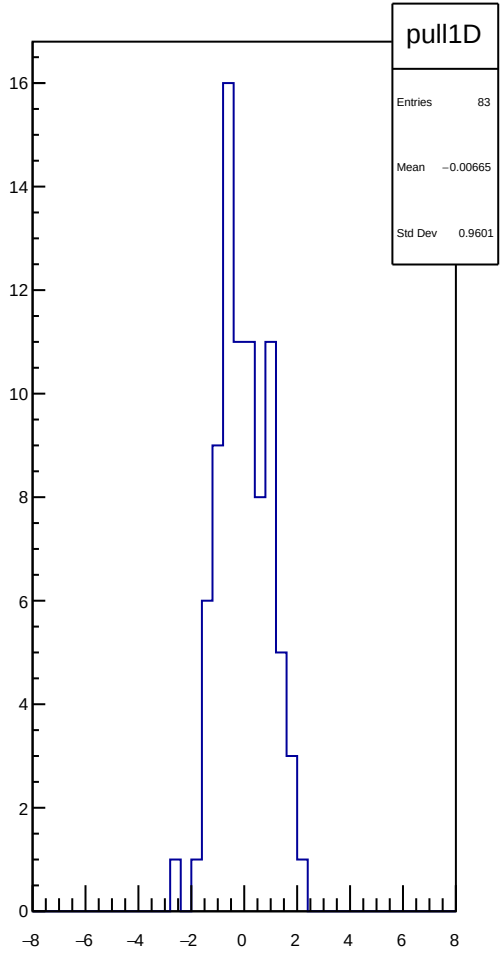

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 6670 / 82
p0 32.73 ± 0.02584
38
36
34
32
30


asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 63.34 / 82
p0 11.57 ± 145.7
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 82.93
Std Dev 20.32
2
1
0
−1
−2


pull1D
Entries 83
Mean 0.03161
Std Dev 0.873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 9236 / 82
p0 130.4 ± 0.1031
170
160
150
140
130
120
110


cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.52 / 82
p0 93.13 ± 36.54
1000
500
0
−500
−1000
pull
Entries 83
Mean 301.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 83
Mean −0.00665
Std Dev 0.9601
16
14
12
10
8
6
4
2
0
−8
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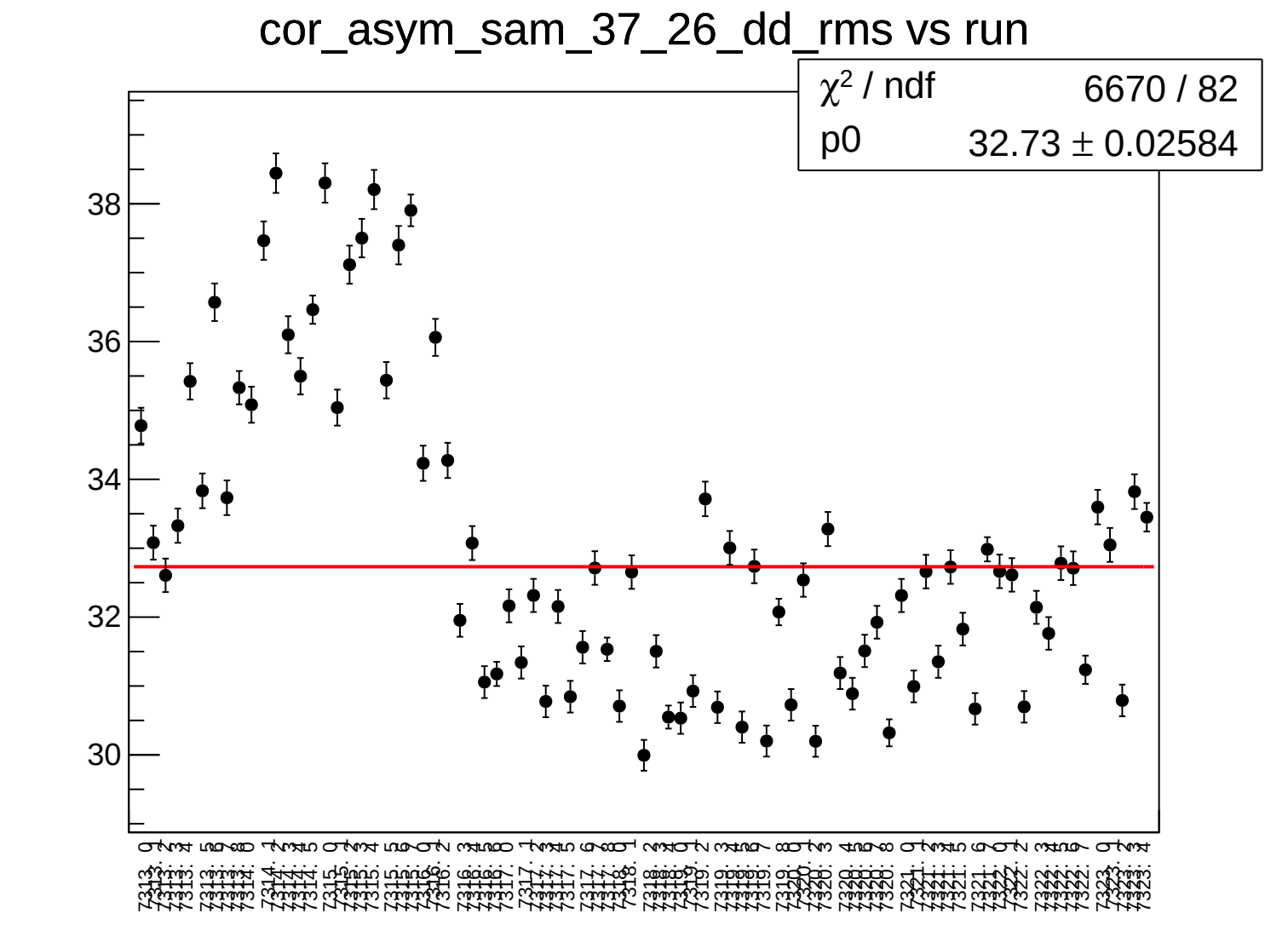
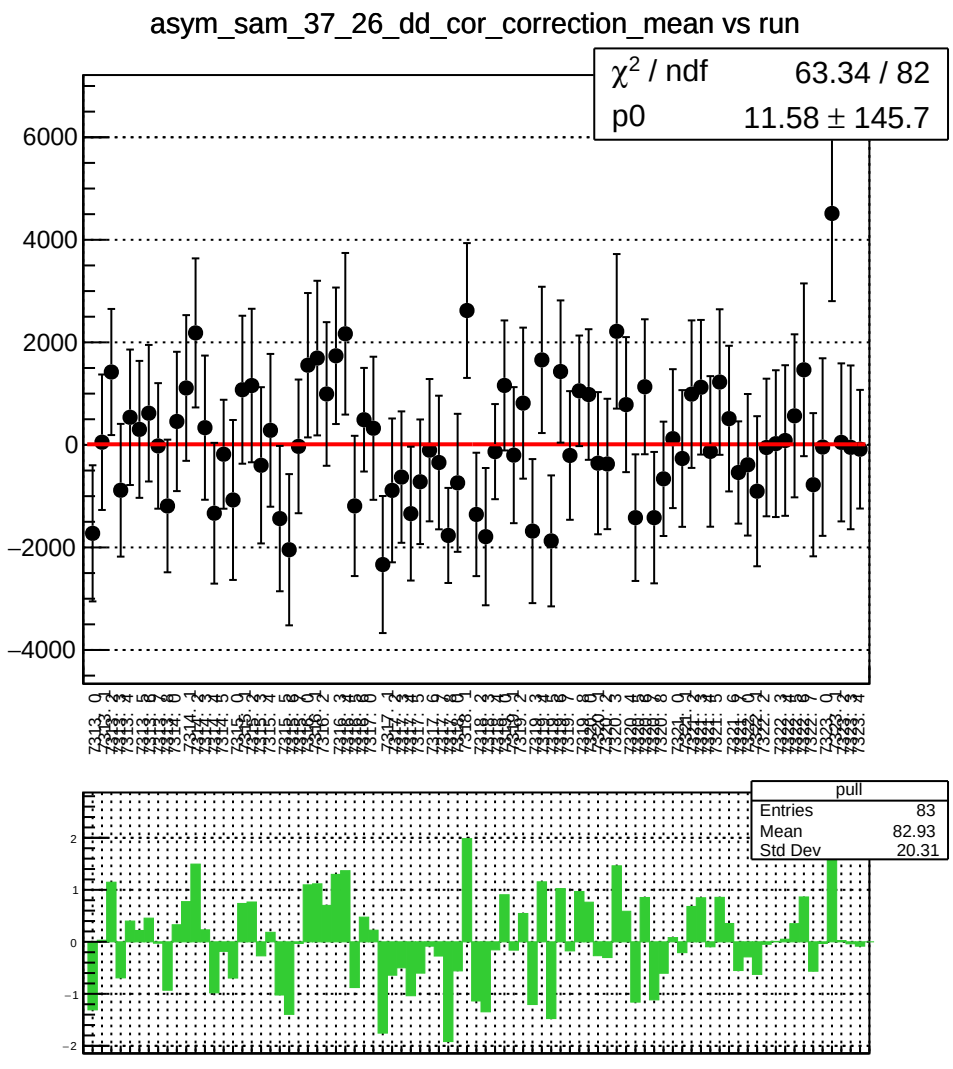
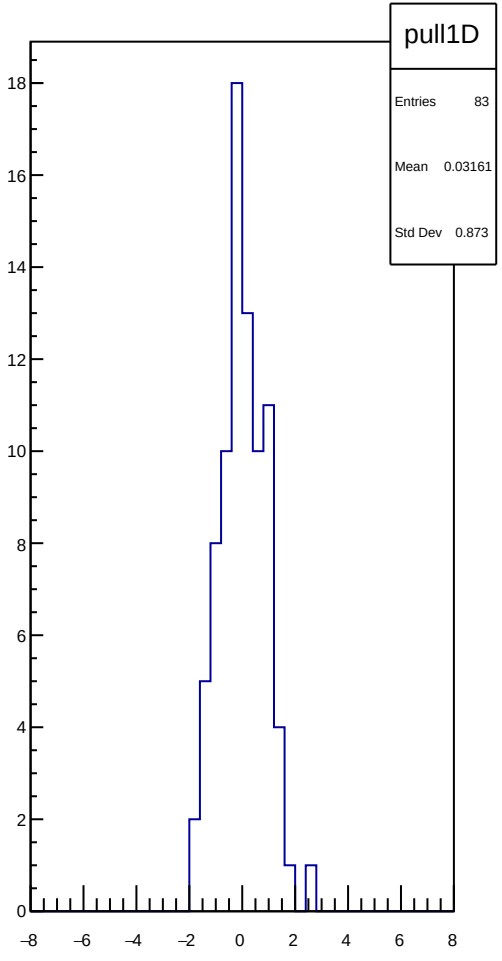
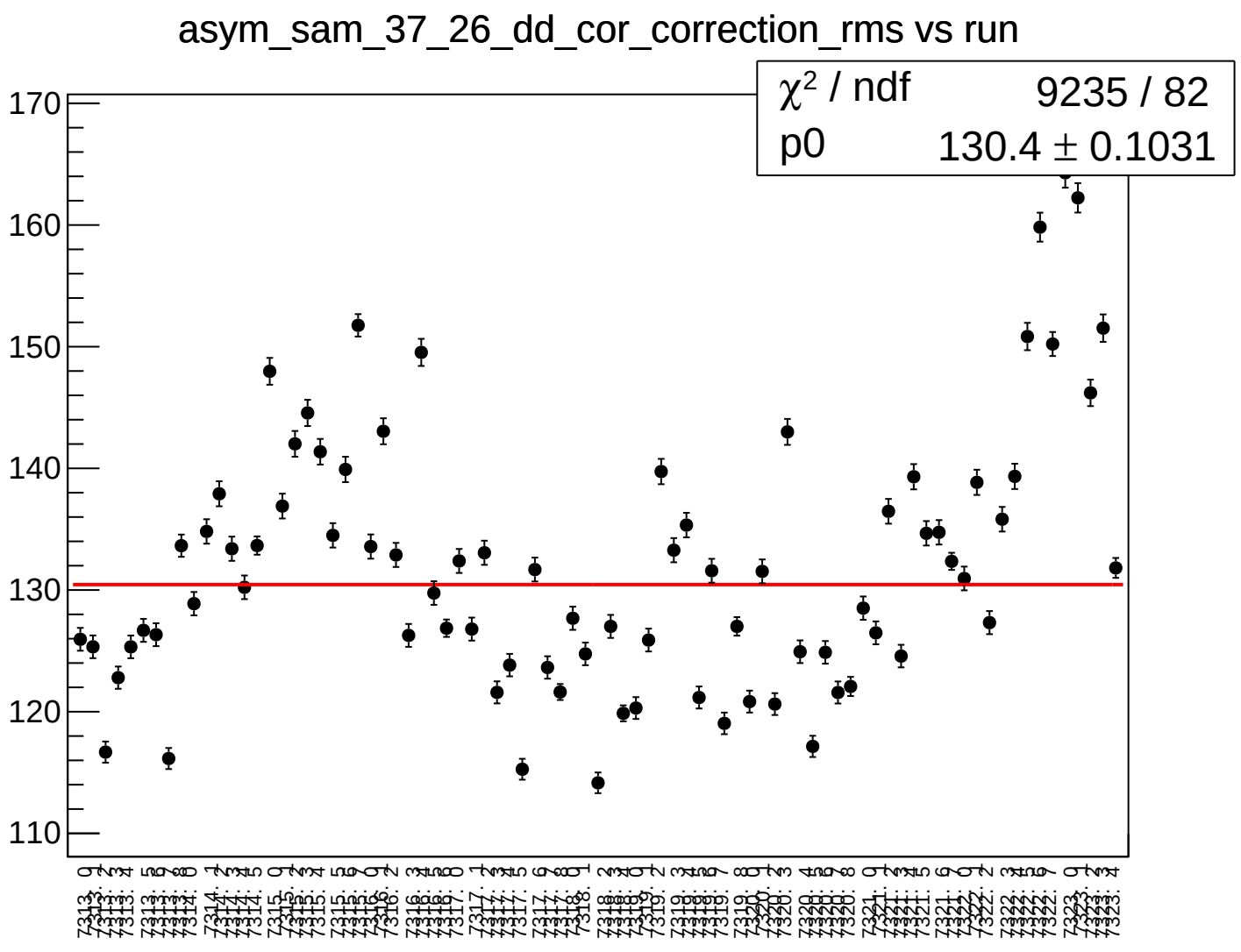
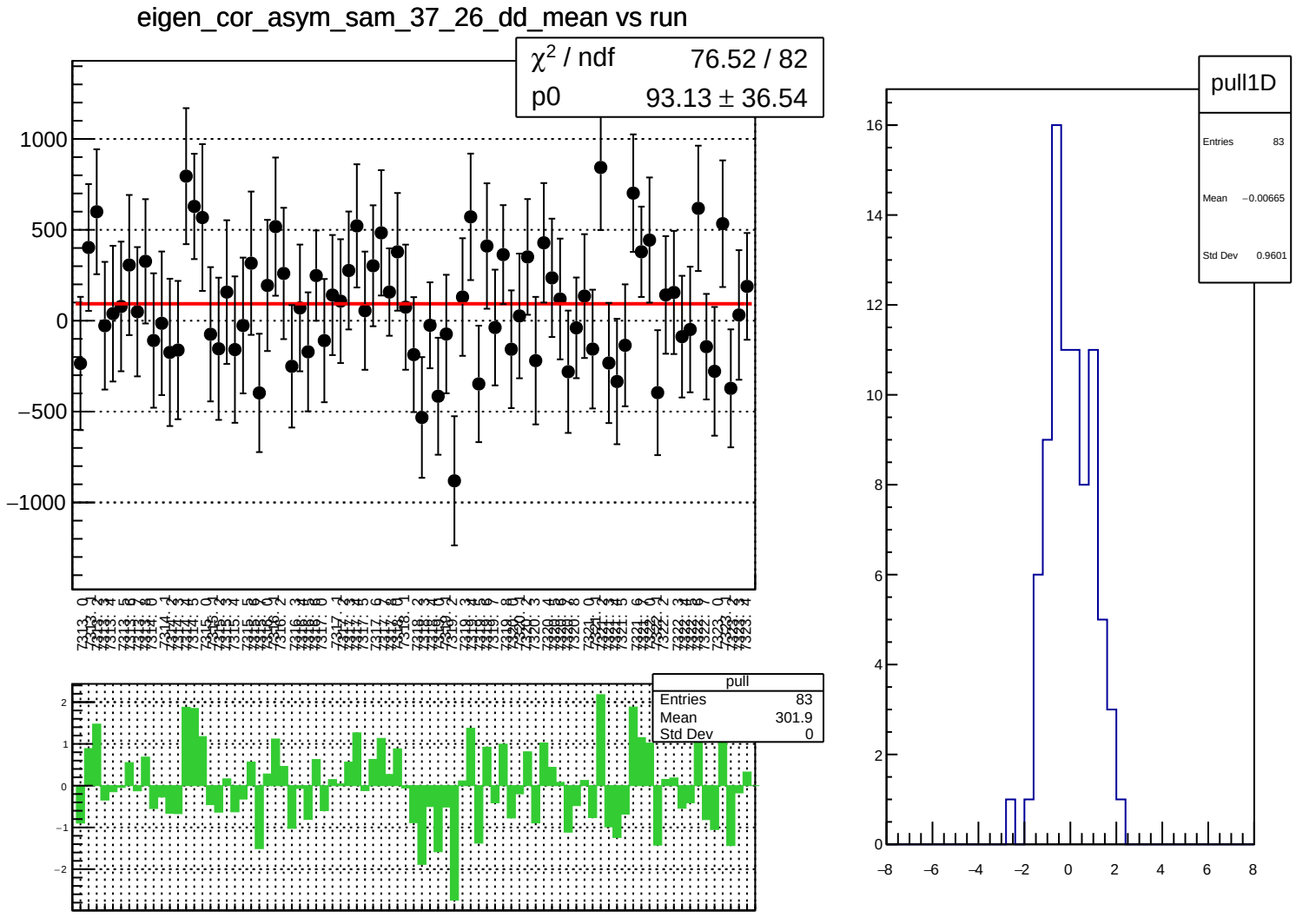
−4
−2
0
2
4
6
8

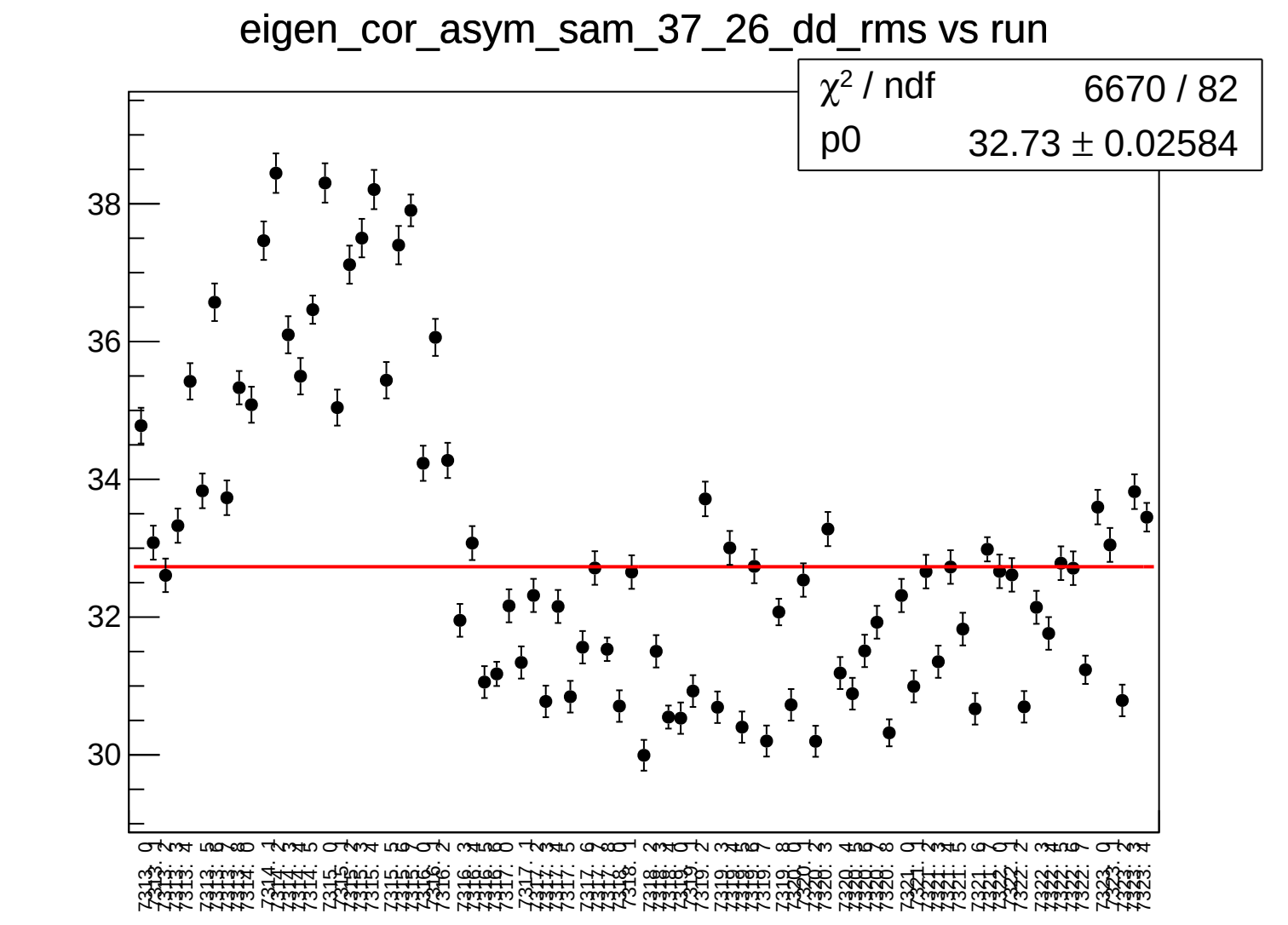

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 6670 / 82
p0 32.73 ± 0.02584
38
36
34
32
30

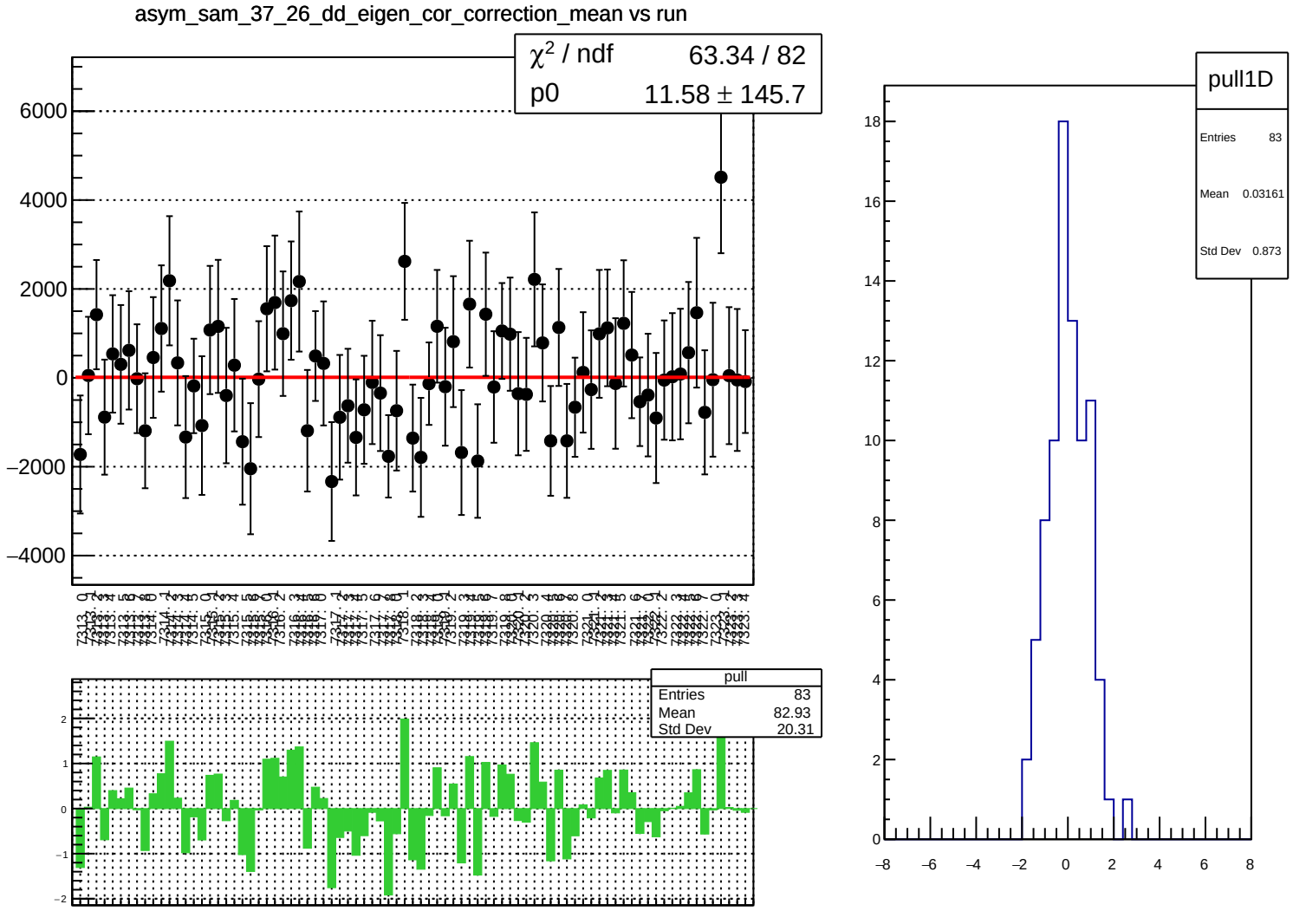

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 63.34 / 82
p0 11.58 ± 145.7
pull
Entries 83
Mean 82.93
Std Dev 20.31

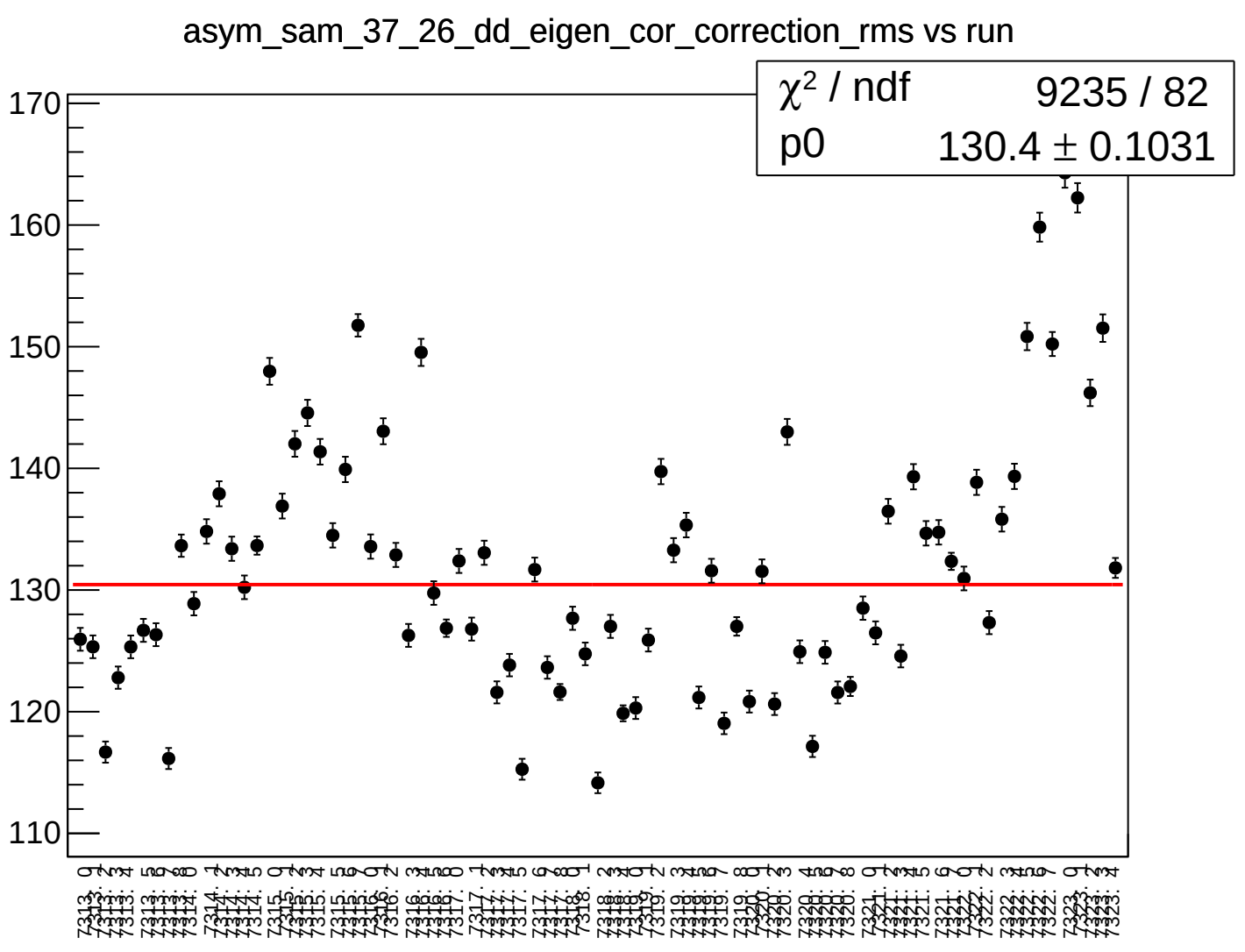

pull1D
Entries 83
Mean 0.03161
Std Dev 0.873

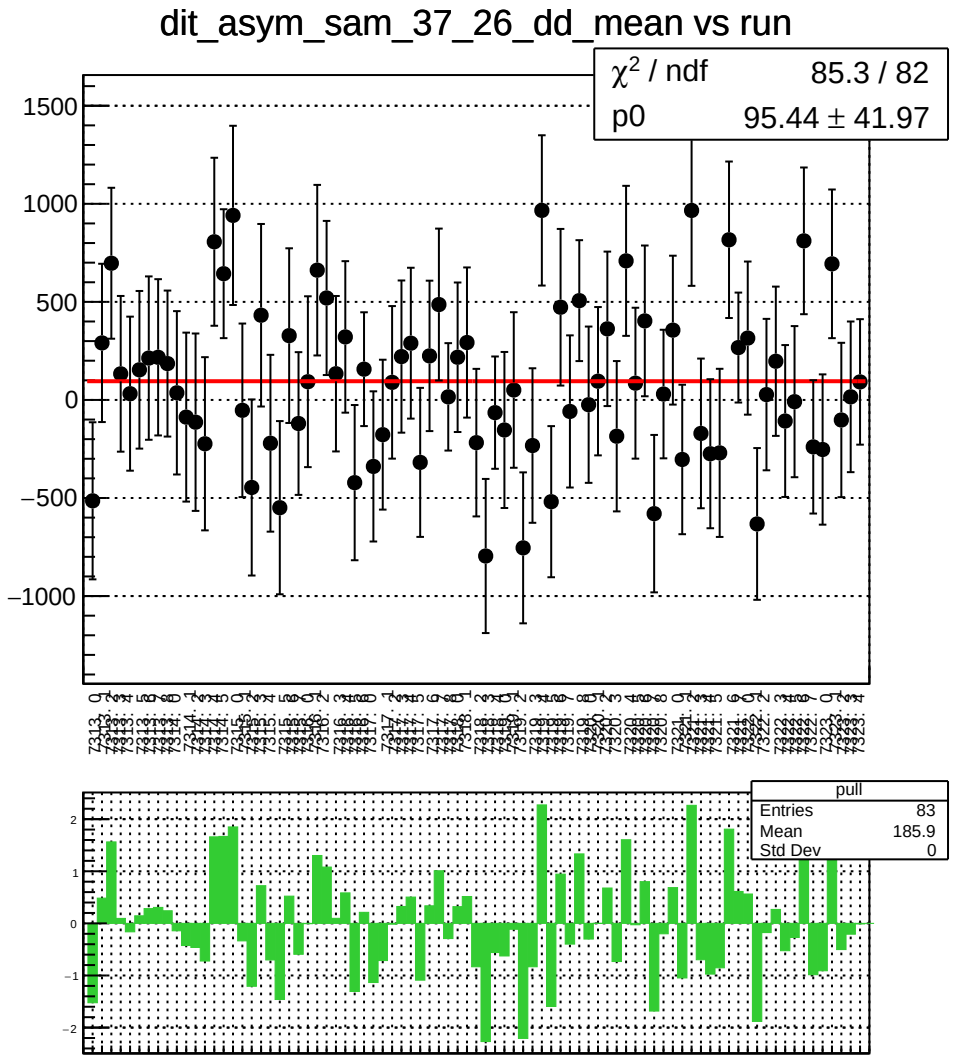

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 9235 / 82
p0 130.4 ± 0.1031
170
160
150
140
130
120
110

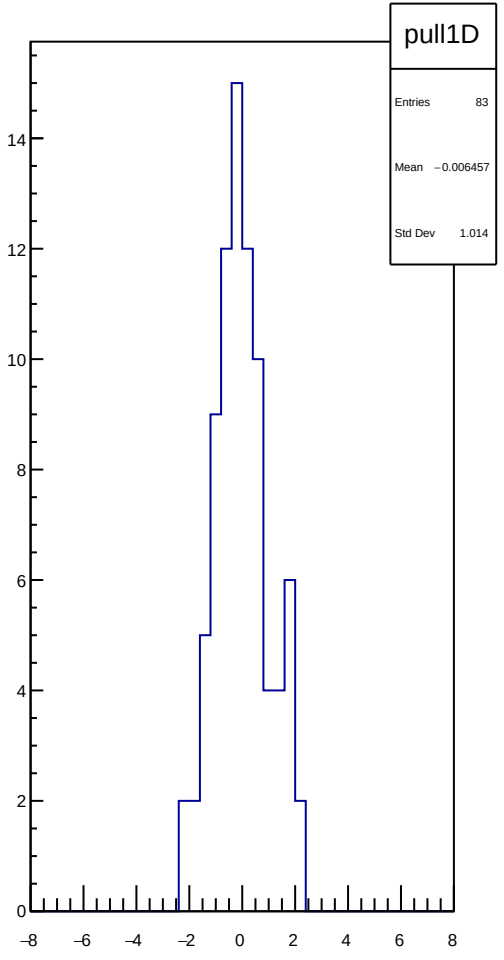

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.52 / 82
p0 93.13 ± 36.54
1000
500
0
−500
−1000
pull
Entries 83
Mean 301.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.00665
Std Dev 0.9601
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

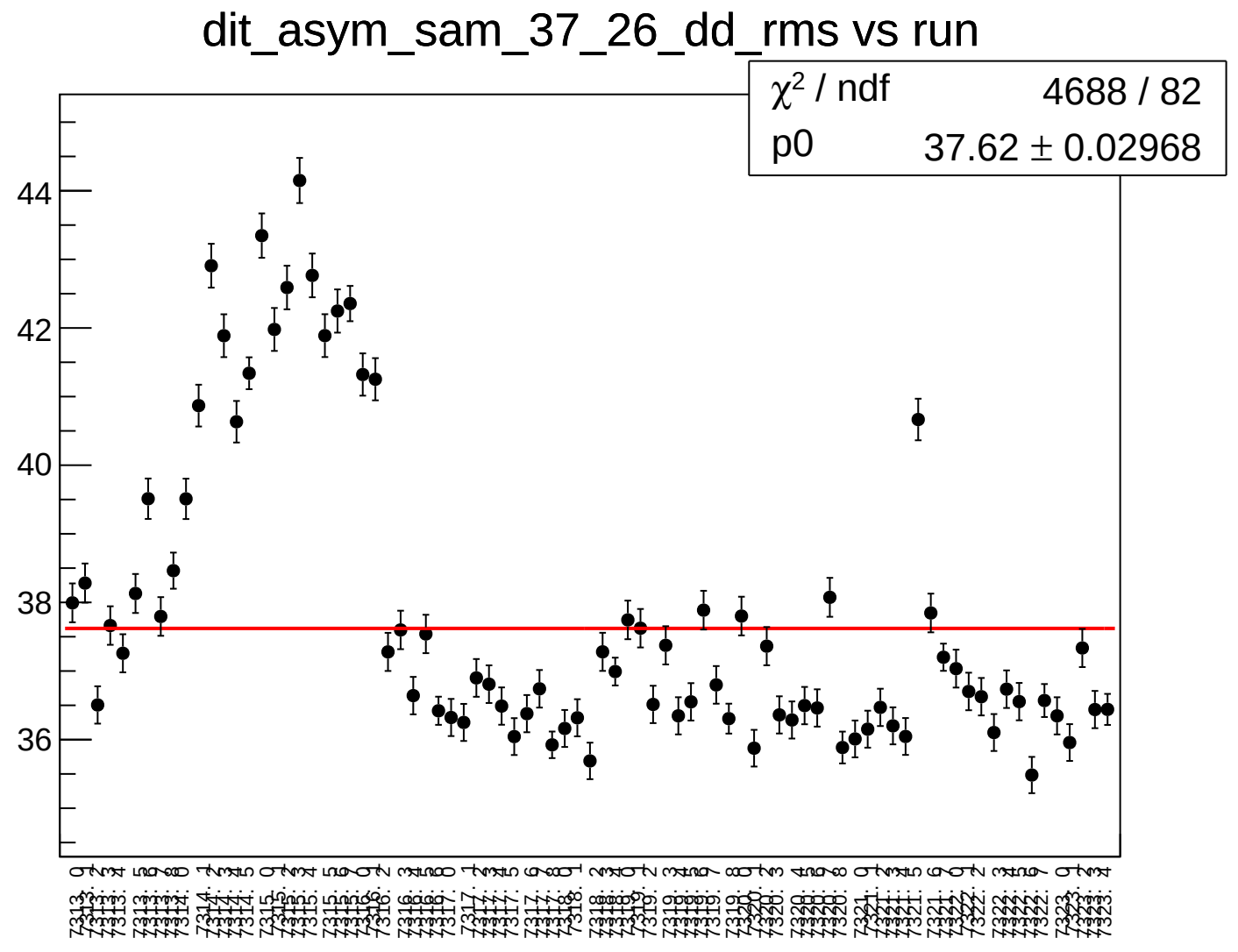

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 6670 / 82
p0 32.73 ± 0.02584
38
36
34
32
30

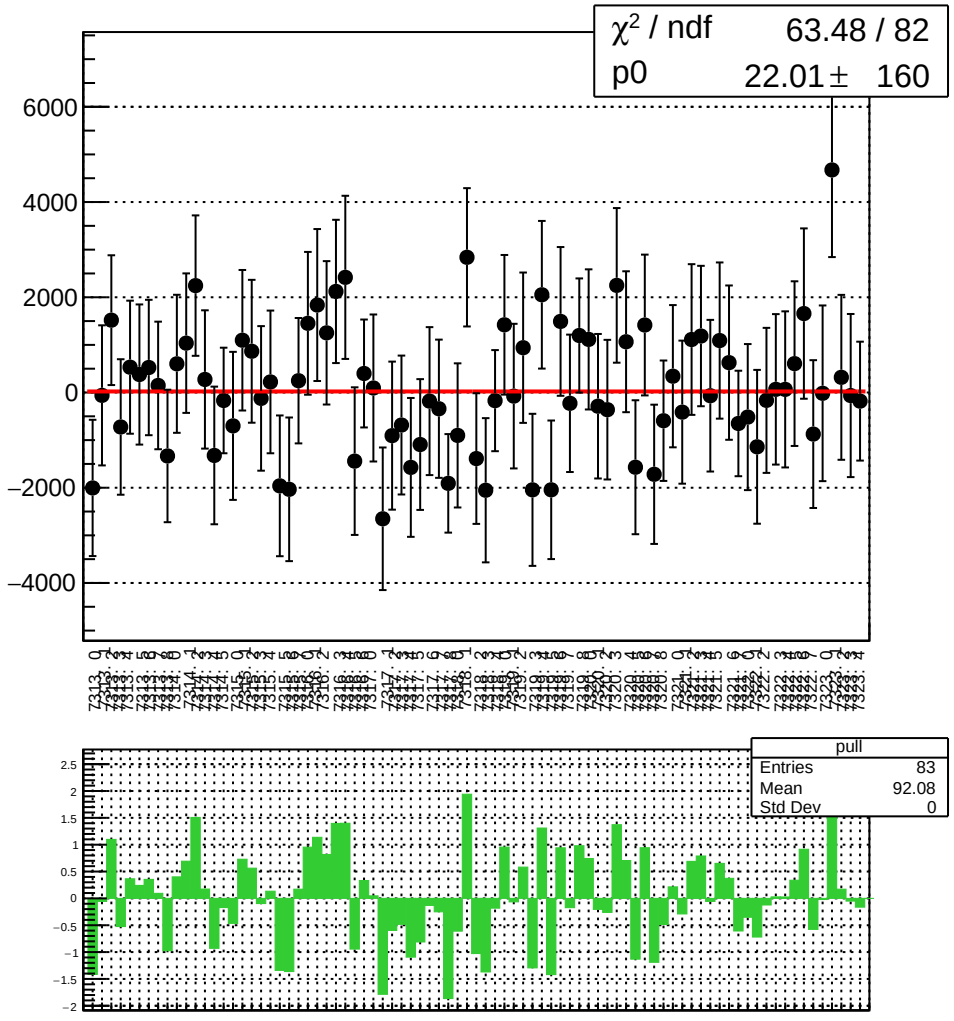

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.34 / 82
p0 11.58 ± 145.7
pull
Entries 83
Mean 82.93
Std Dev 20.31
pull1D
Entries 83
Mean 0.03161
Std Dev 0.873

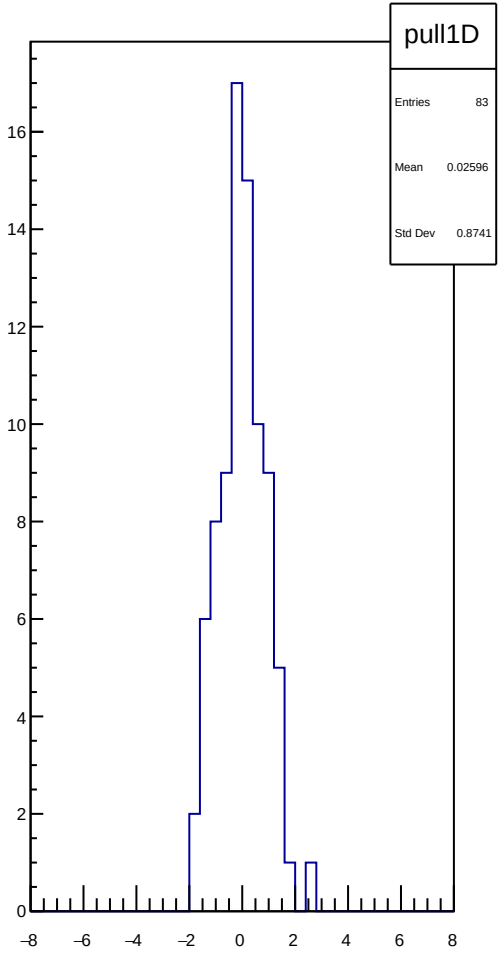

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9235 / 82
p0 130.4 ± 0.1031
170
160
150
140
130
120
110

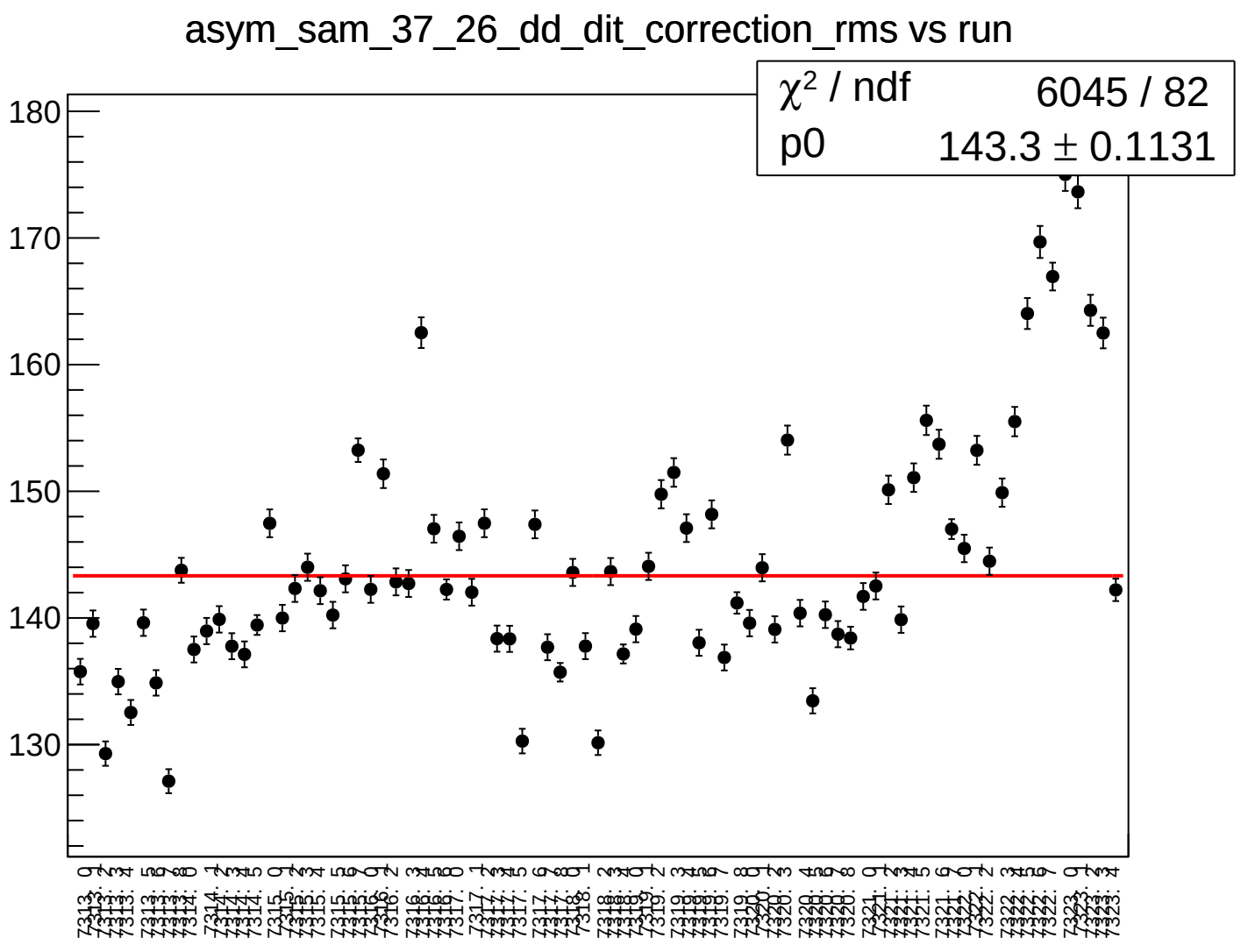

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.3 / 82
p0 95.44 ± 41.97
pull
Entries 83
Mean 185.9
Std Dev 0

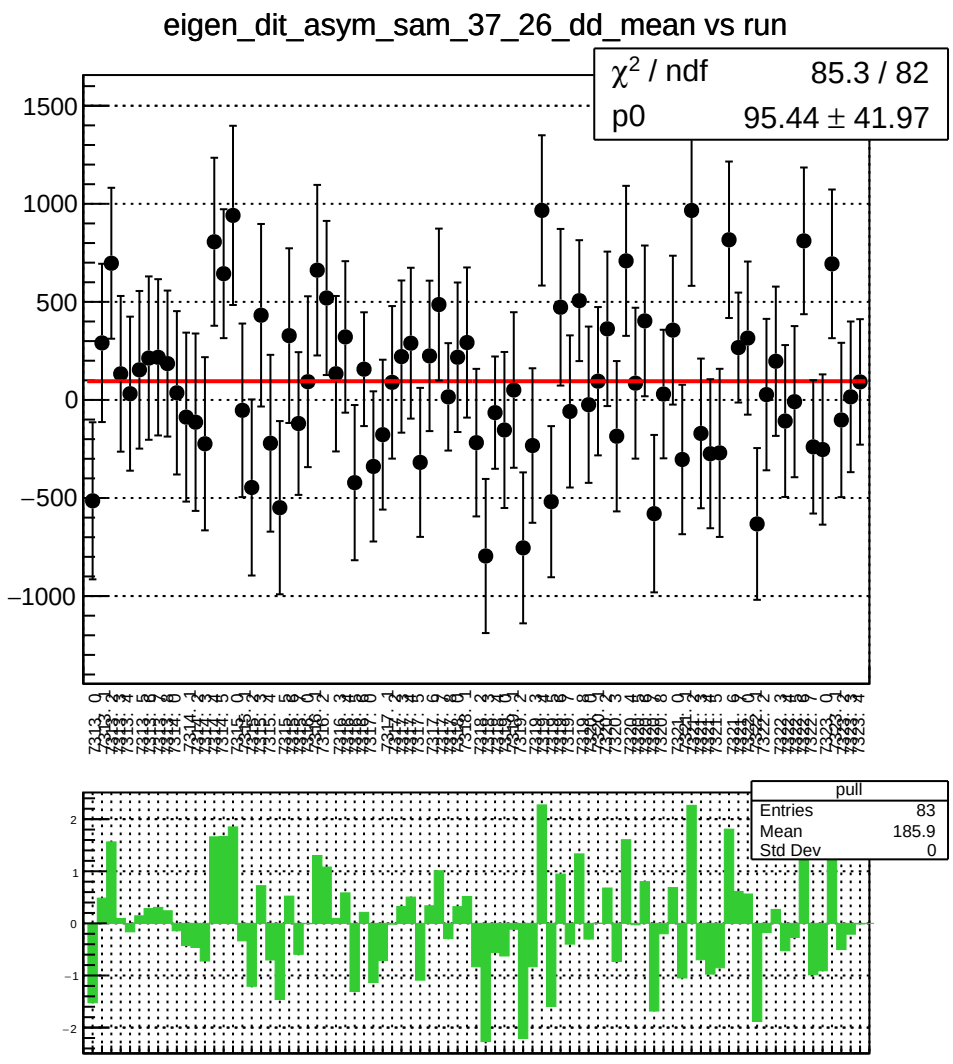

pull1D
Entries 83
Mean −0.006457
Std Dev 1.014

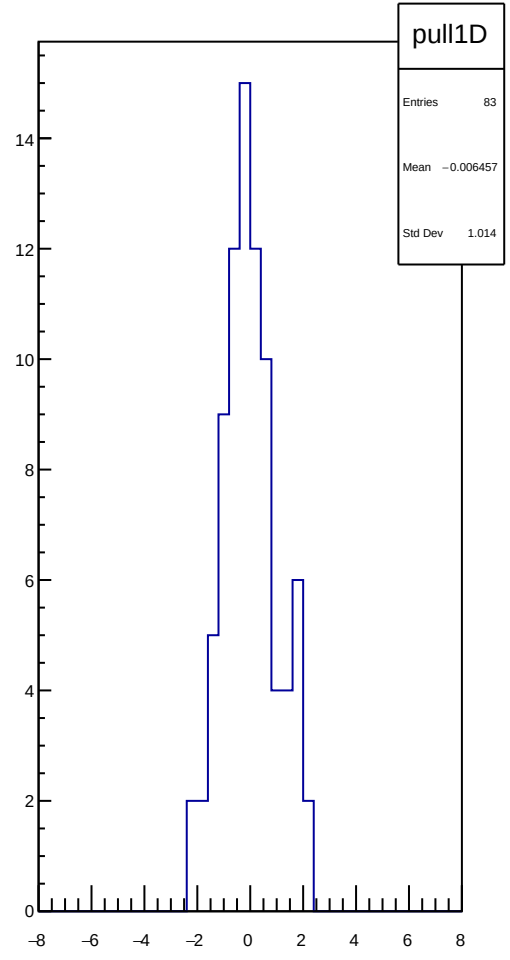

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4688 / 82
p0 37.62 ± 0.02968
44
42
40
38
36

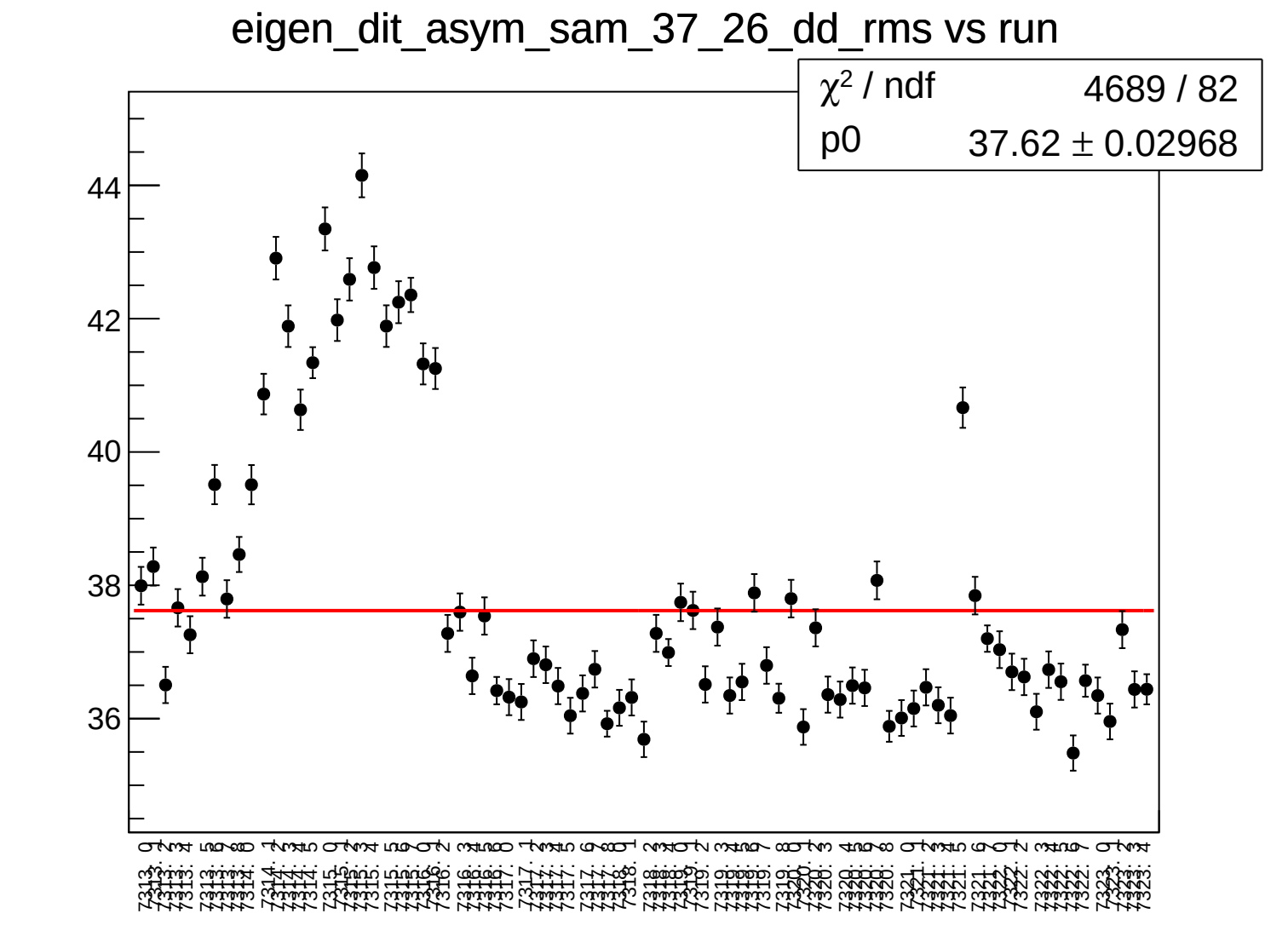

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 63.48 / 82
p0 22.01 ± 160
pull
Entries 83
Mean 92.08
Std Dev 0

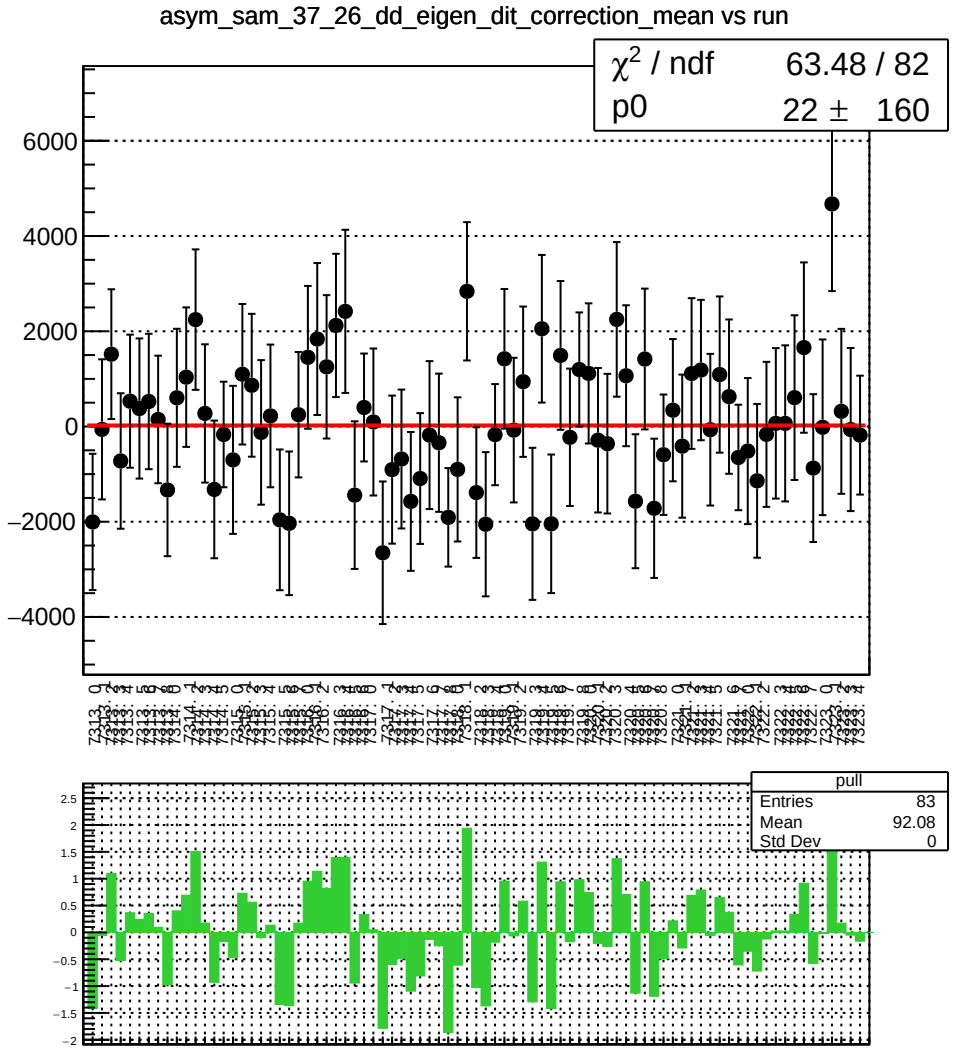

pull1D
Entries 83
Mean 0.02596
Std Dev 0.8741

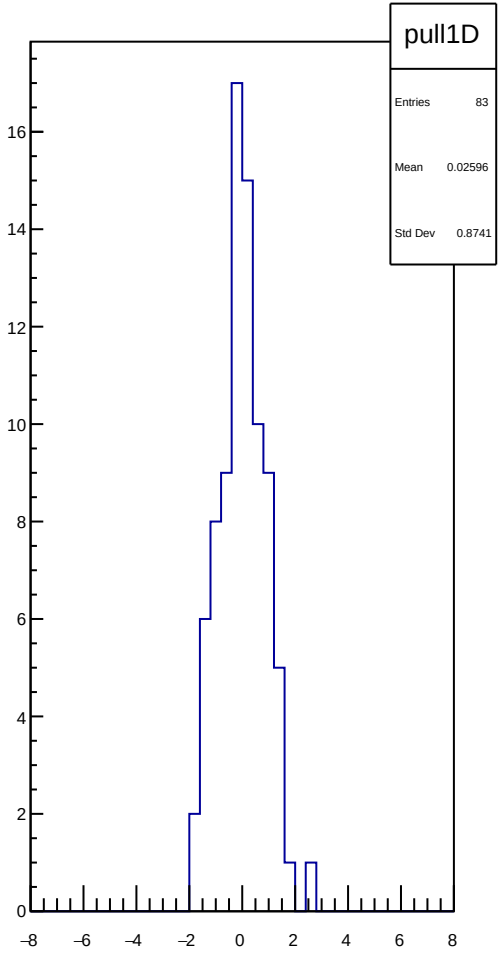

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 6045 / 82
p0 143.3 ± 0.1131
180
170
160
150
140
130

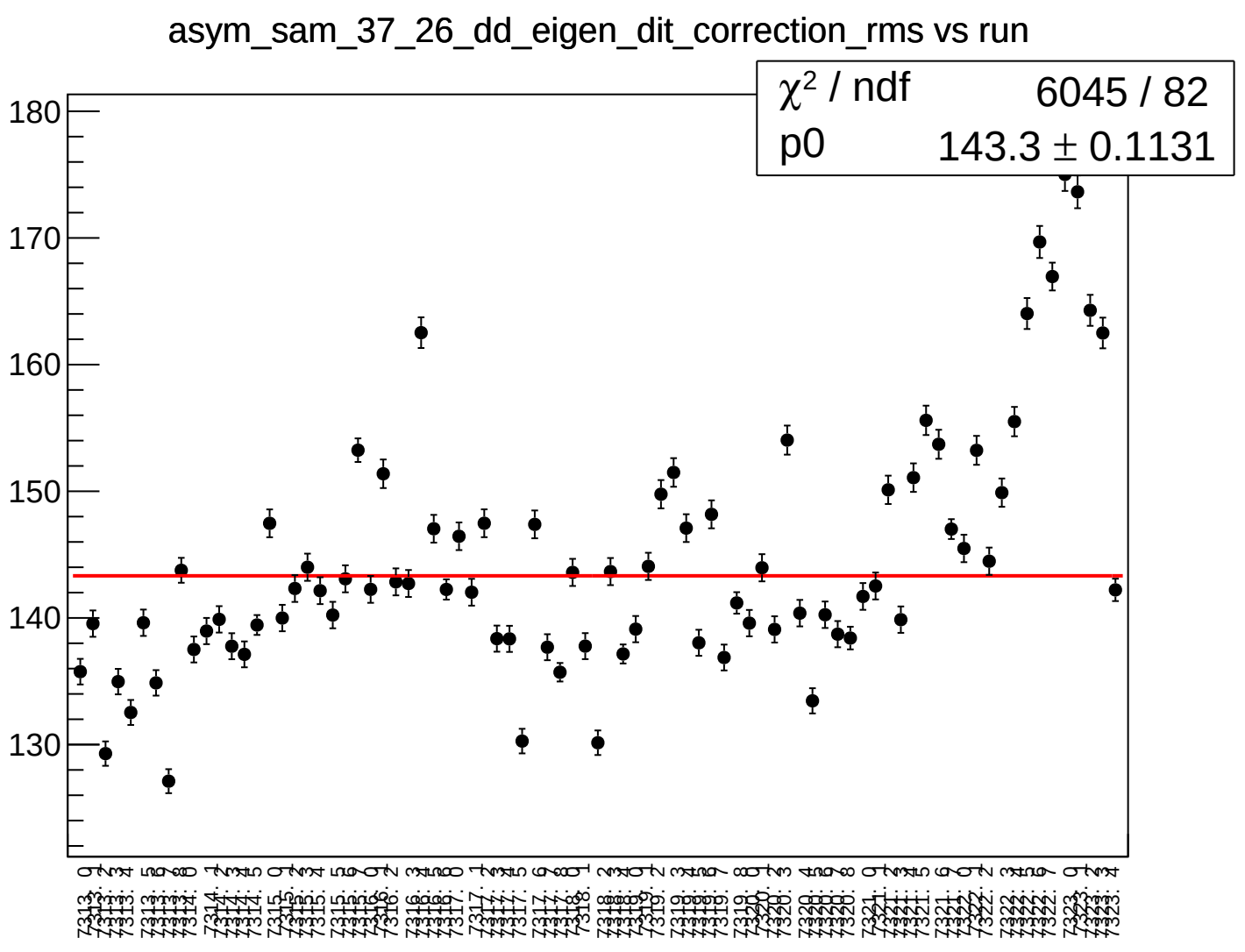

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 85.3 / 82
p0 95.44 ± 41.97
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean 185.9
Std Dev 0
2
1
0
−1
−2

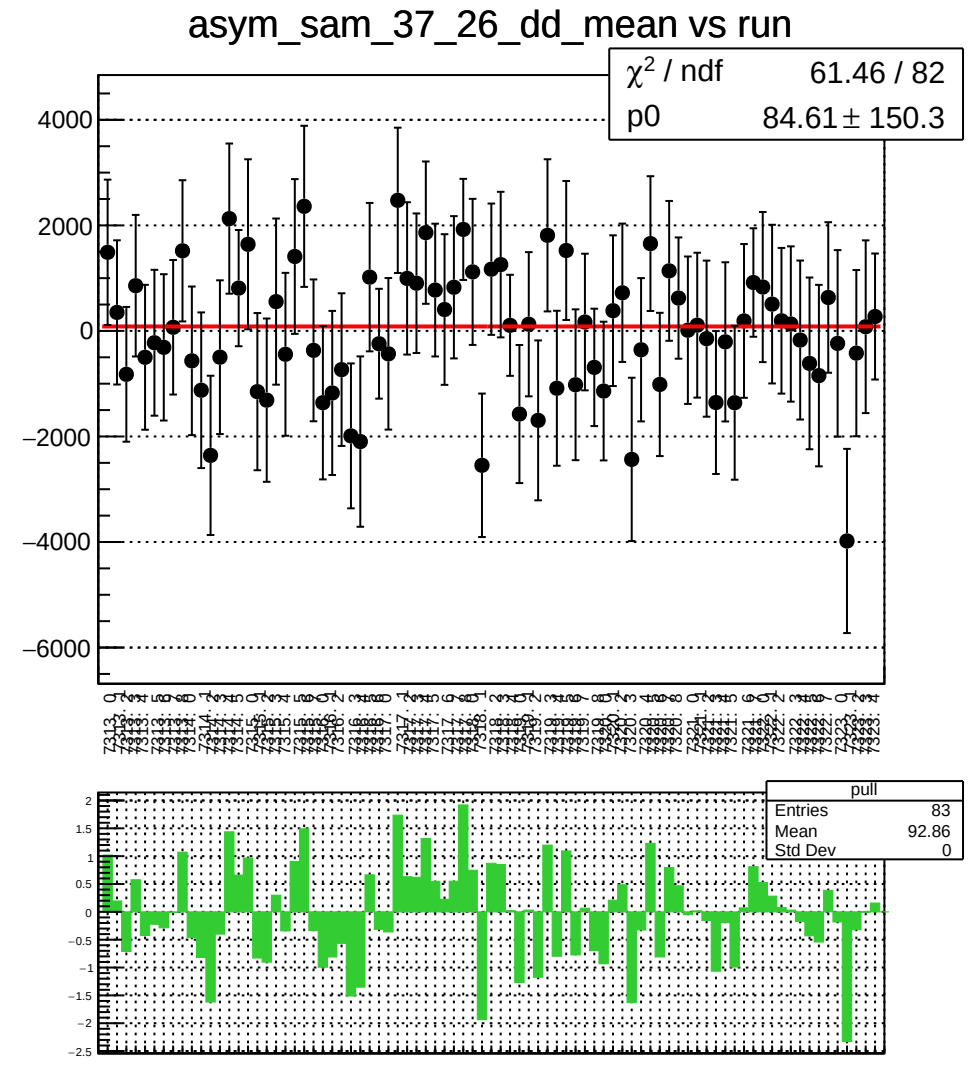

pull1D
Entries 83
Mean −0.006457
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

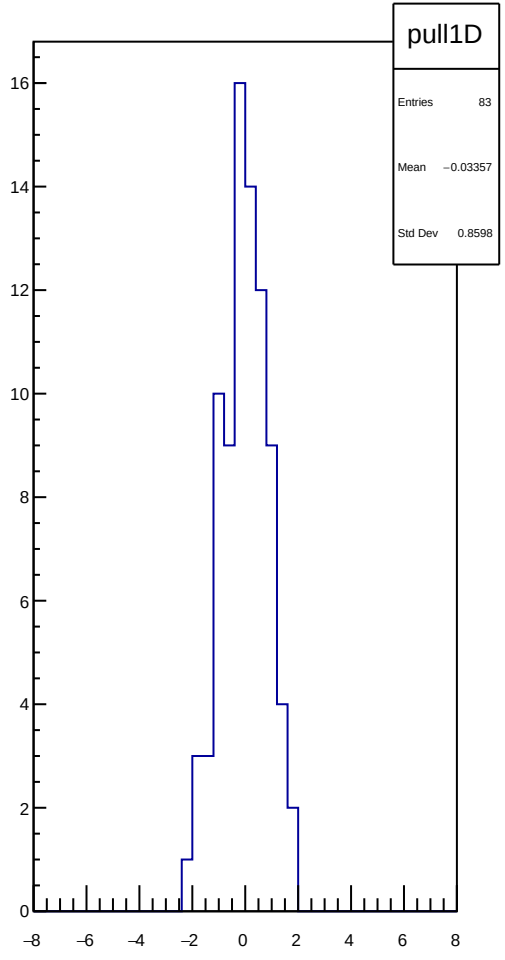

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4689 / 82
p0 37.62 ± 0.02968
44
42
40
38
36

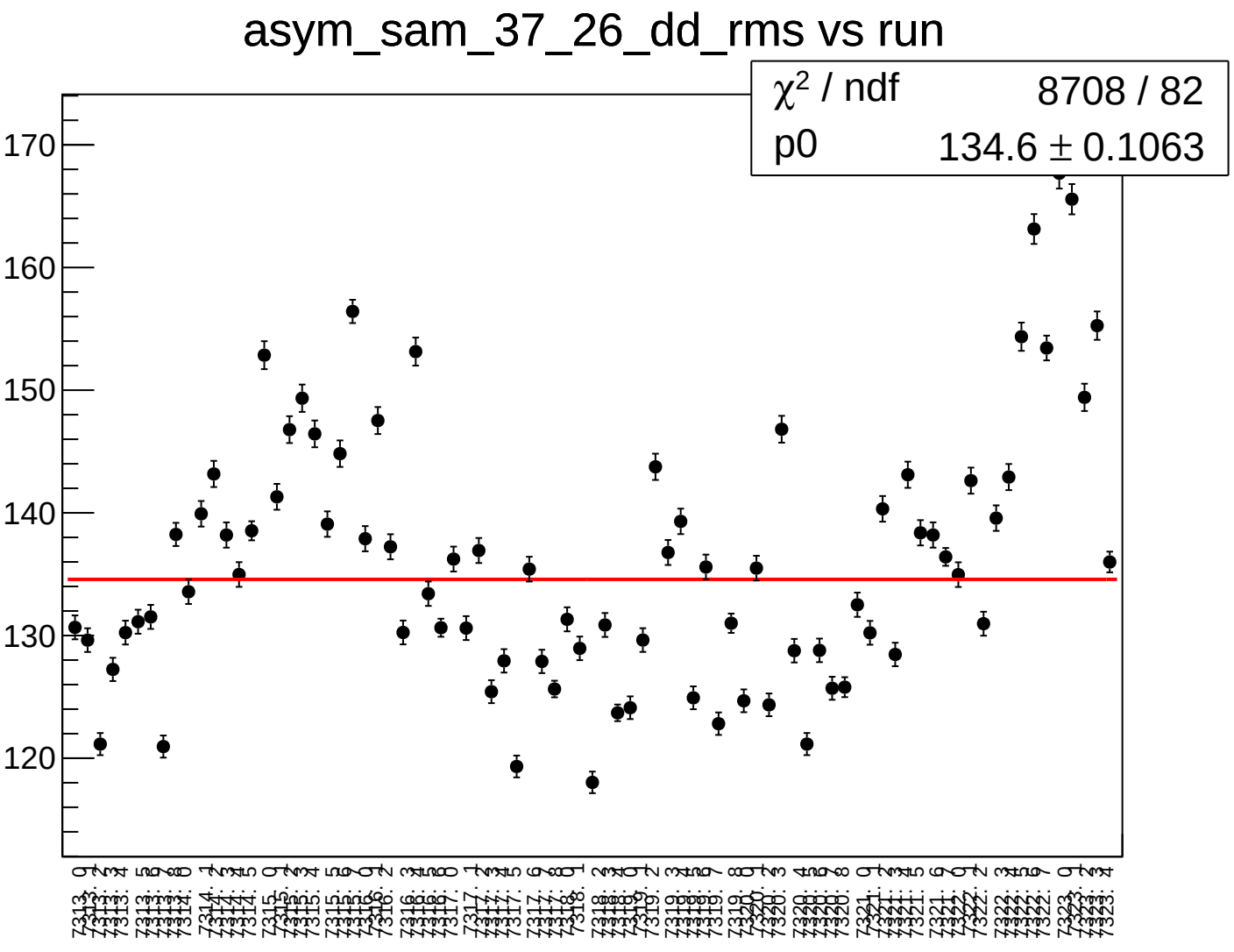

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 63.48 / 82
p0 22 ± 160
pull
Entries 83
Mean 92.08
Std Dev 0

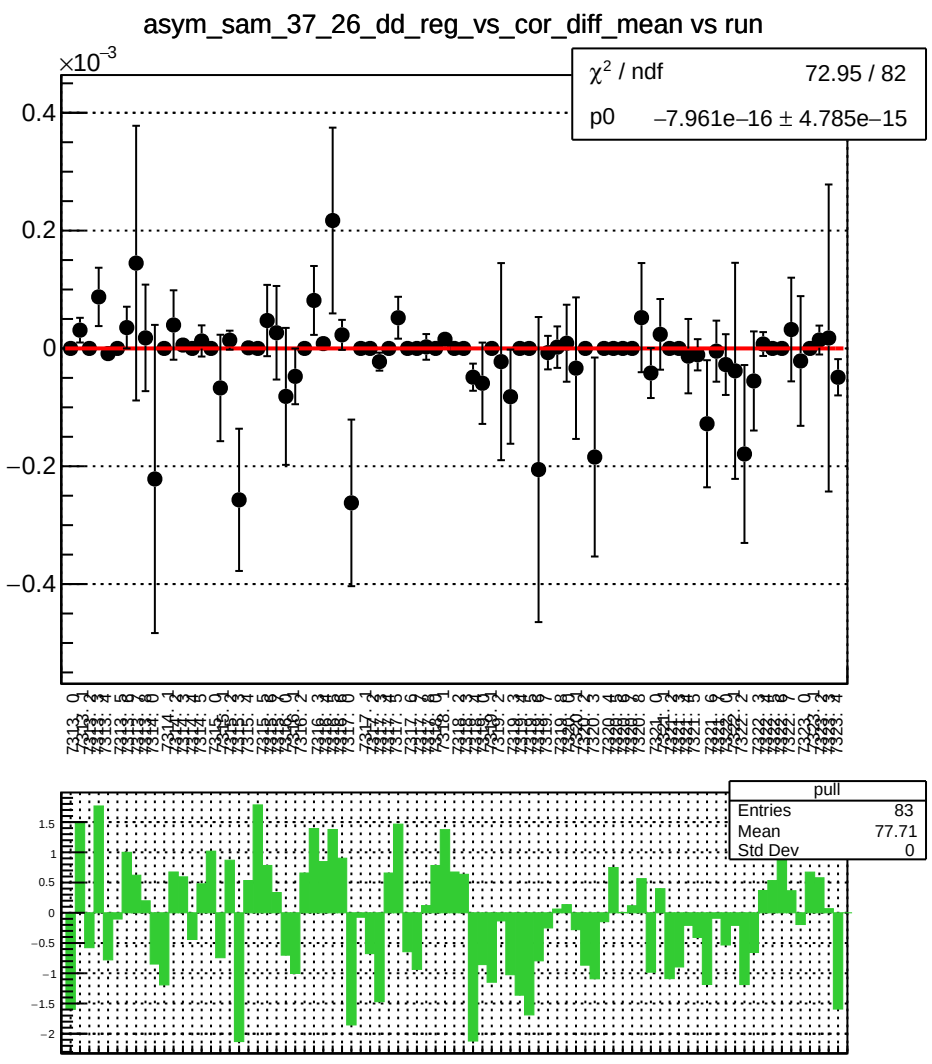

pull1D
Entries 83
Mean 0.02596
Std Dev 0.8741

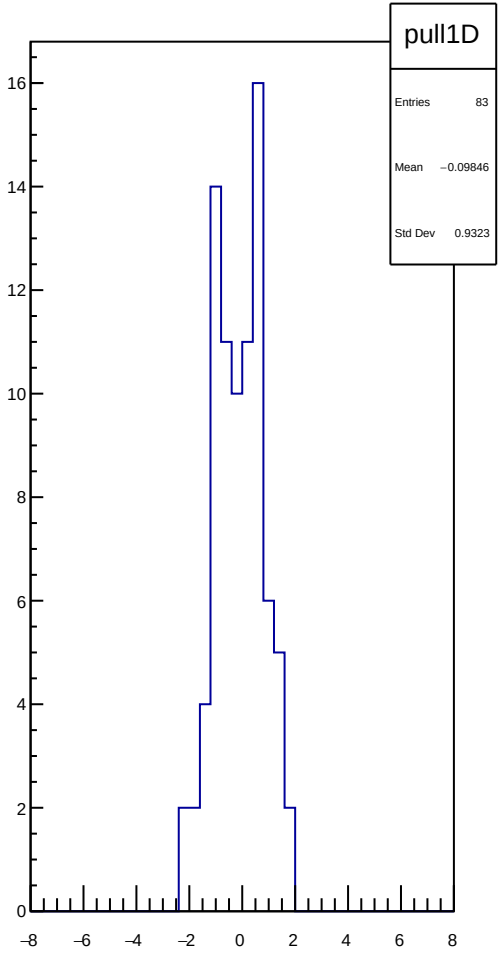

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6045 / 82
p0 143.3 ± 0.1131
180
170
160
150
140
130

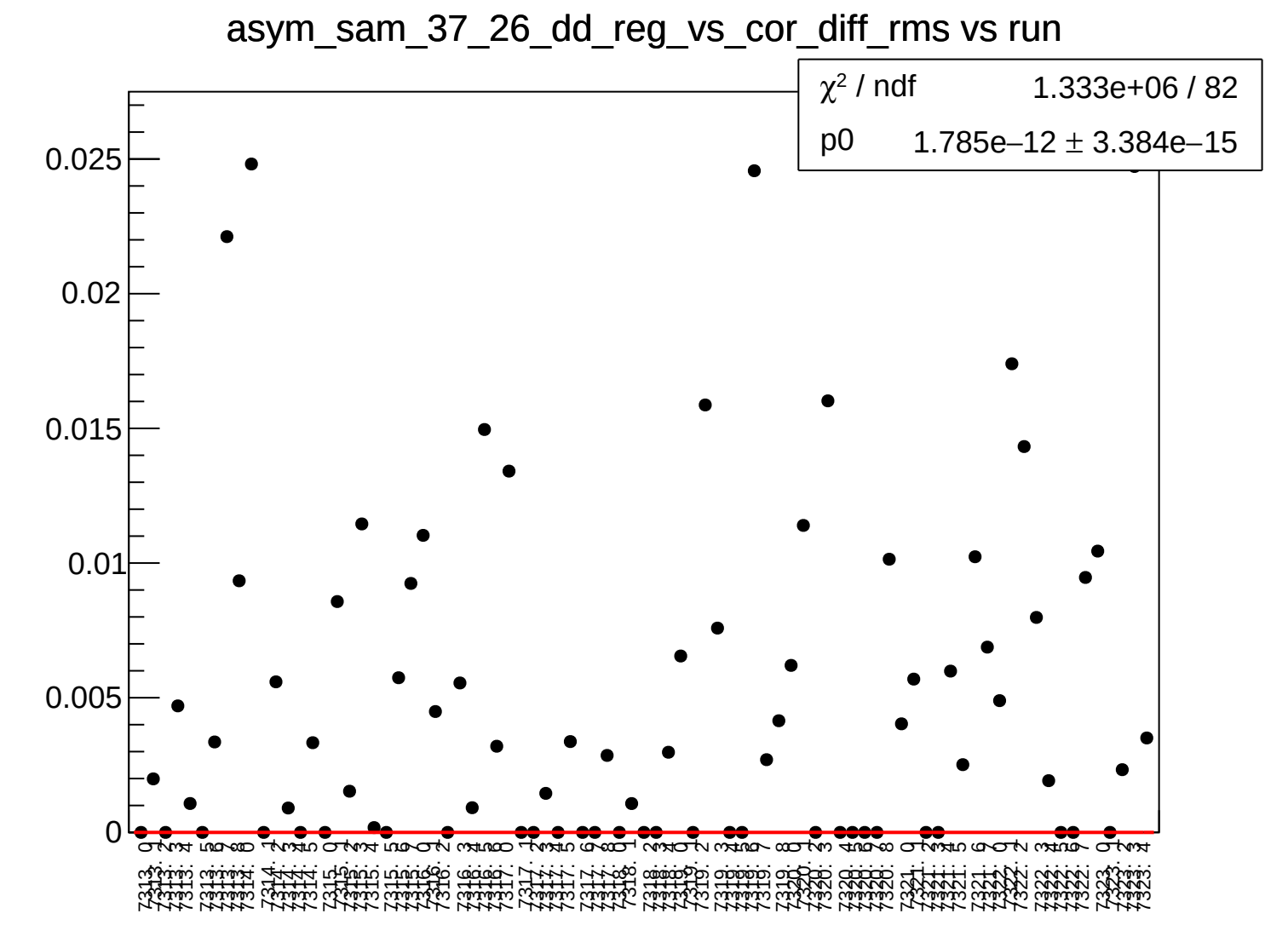

asym_sam_37_26_dd_mean vs run
χ² / ndf 61.46 / 82
p0 84.61 ± 150.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 92.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

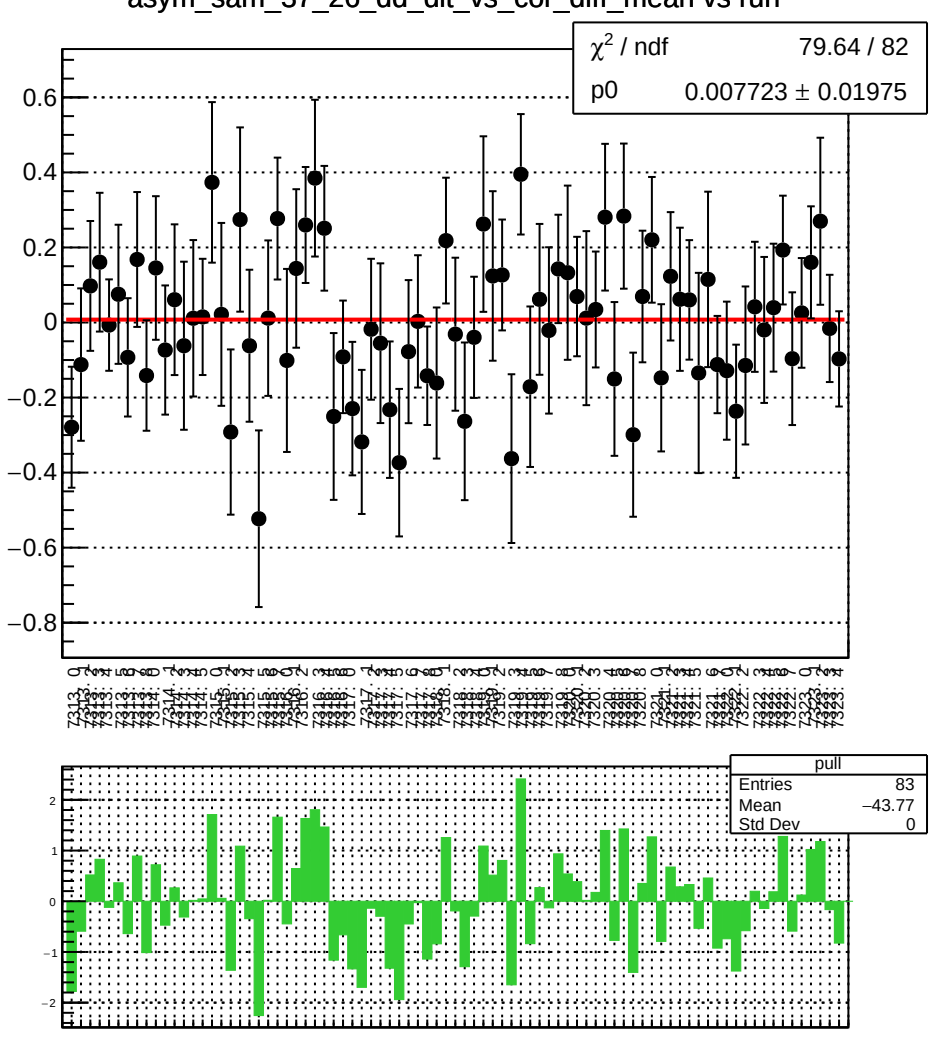

pull1D
Entries 83
Mean −0.03357
Std Dev 0.8598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

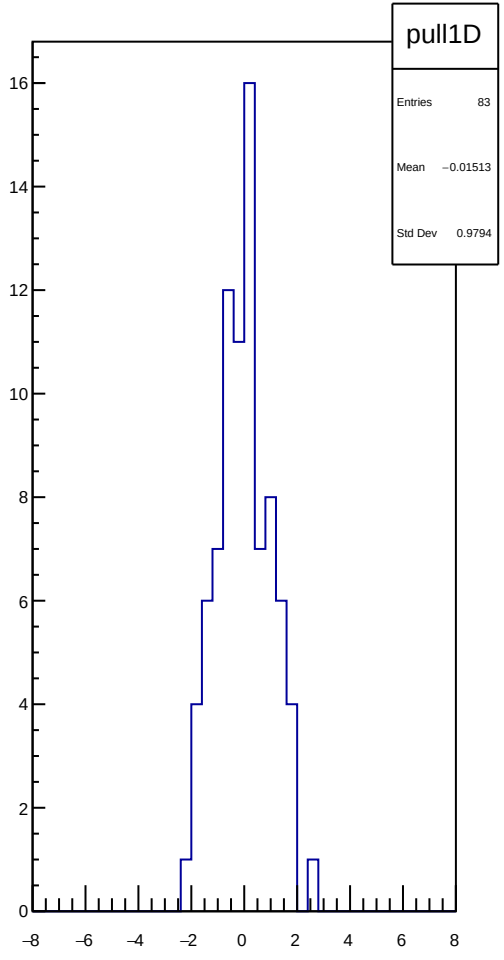

asym_sam_37_26_dd_rms vs run
χ² / ndf 8708 / 82
p0 134.6 ± 0.1063
170
160
150
140
130
120

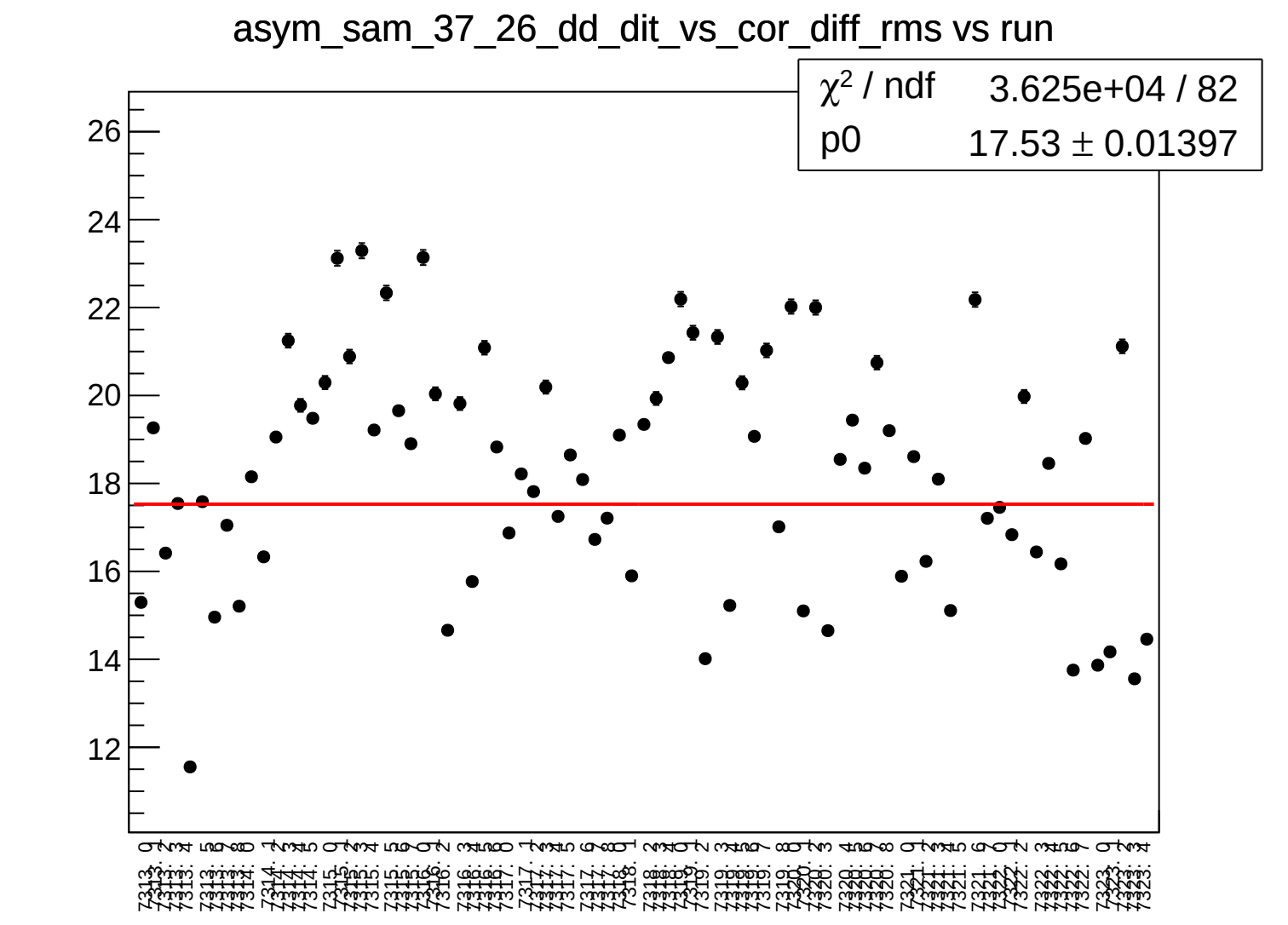

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 72.95 / 82
p0 −7.961e−16 ± 4.785e−15
pull
Entries 83
Mean 77.71
Std Dev 0

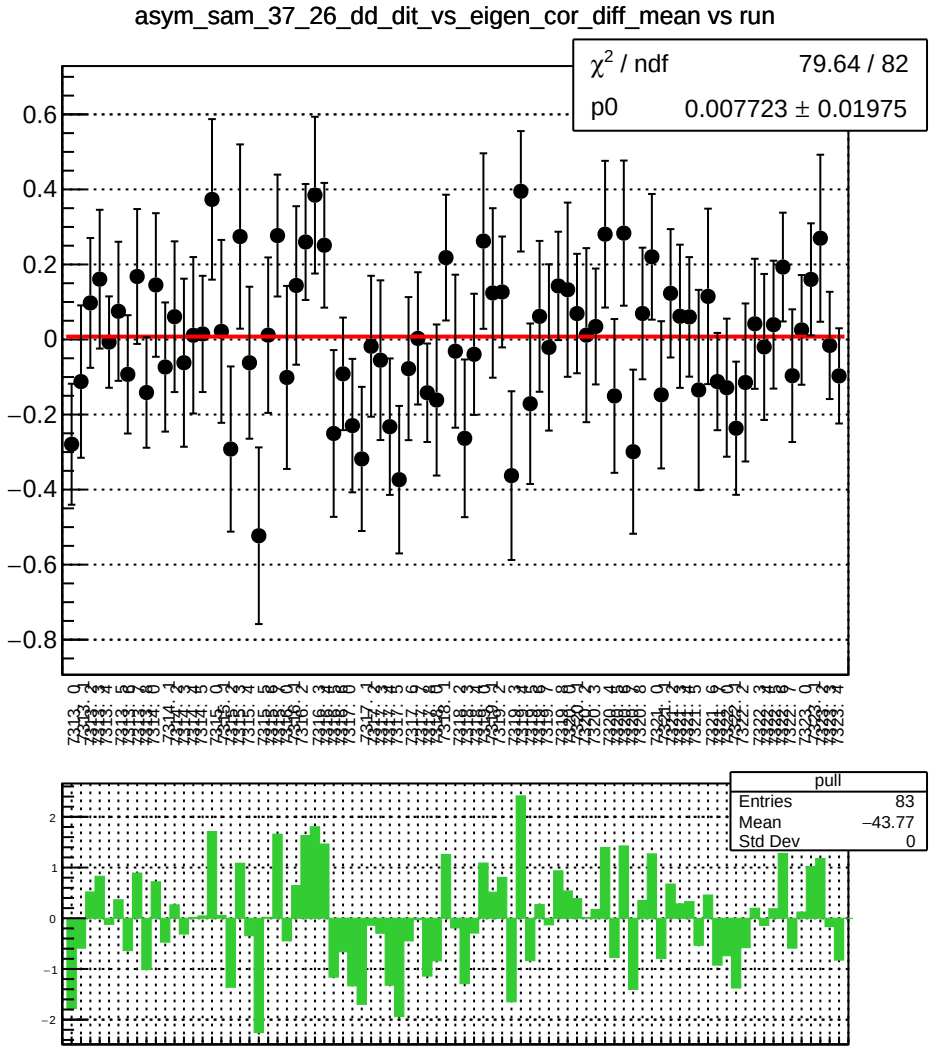

pull1D
Entries 83
Mean −0.09846
Std Dev 0.9323

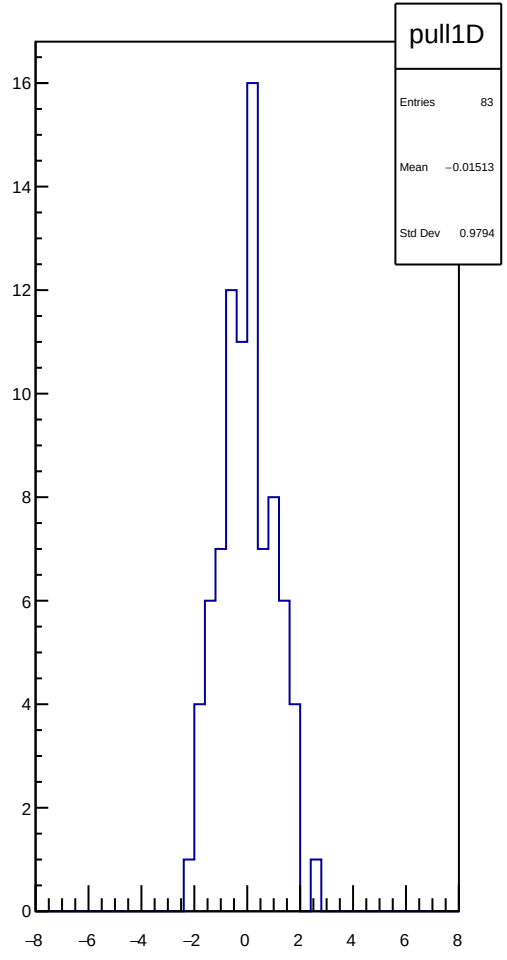

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.333e+06 / 82
p0 1.785e−12 ± 3.384e−15
0.025
0.02
0.015
0.01
0.005
0

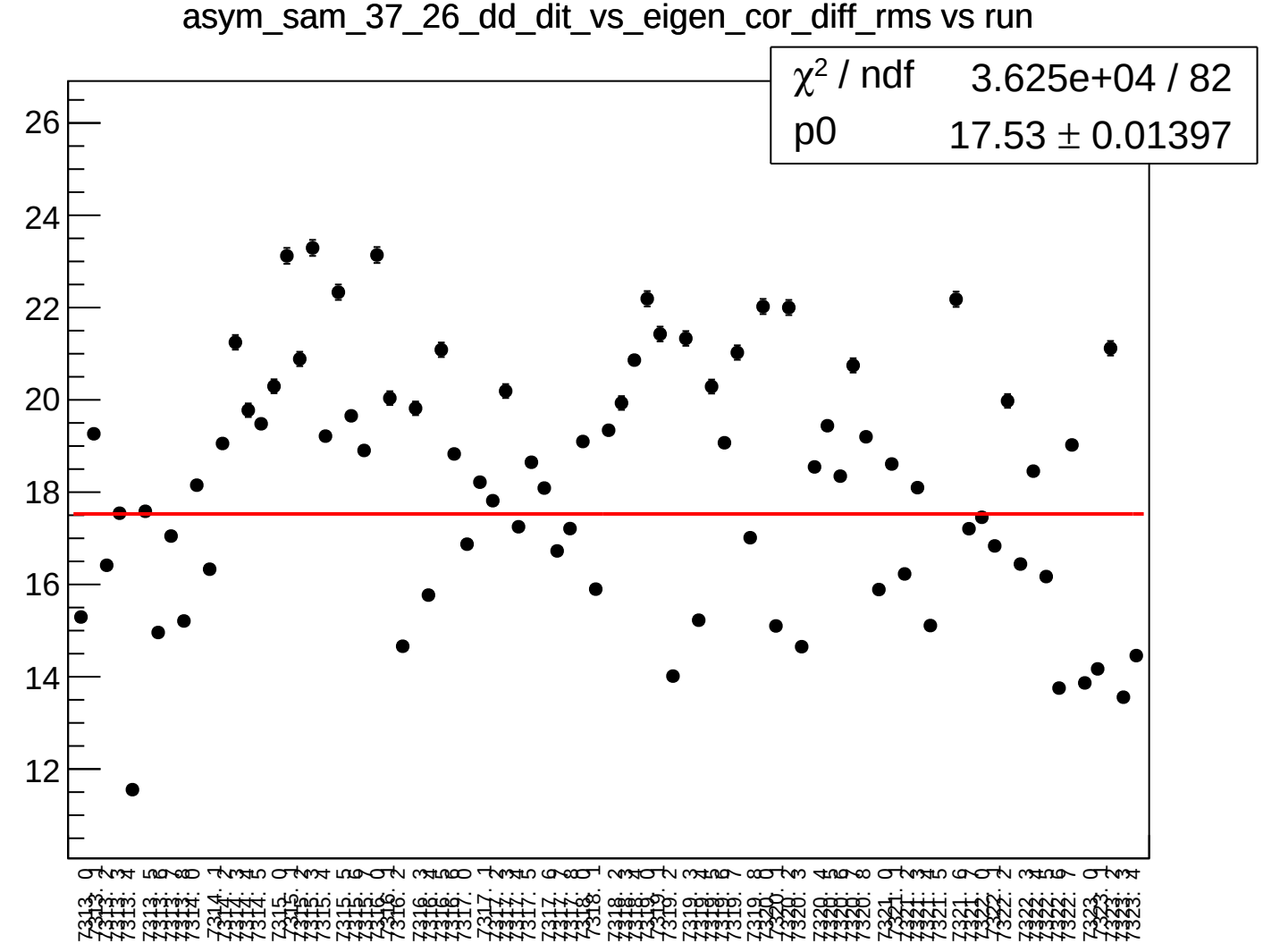

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 0.007723 ± 0.01975
pull
Entries 83
Mean −43.77
Std Dev 0

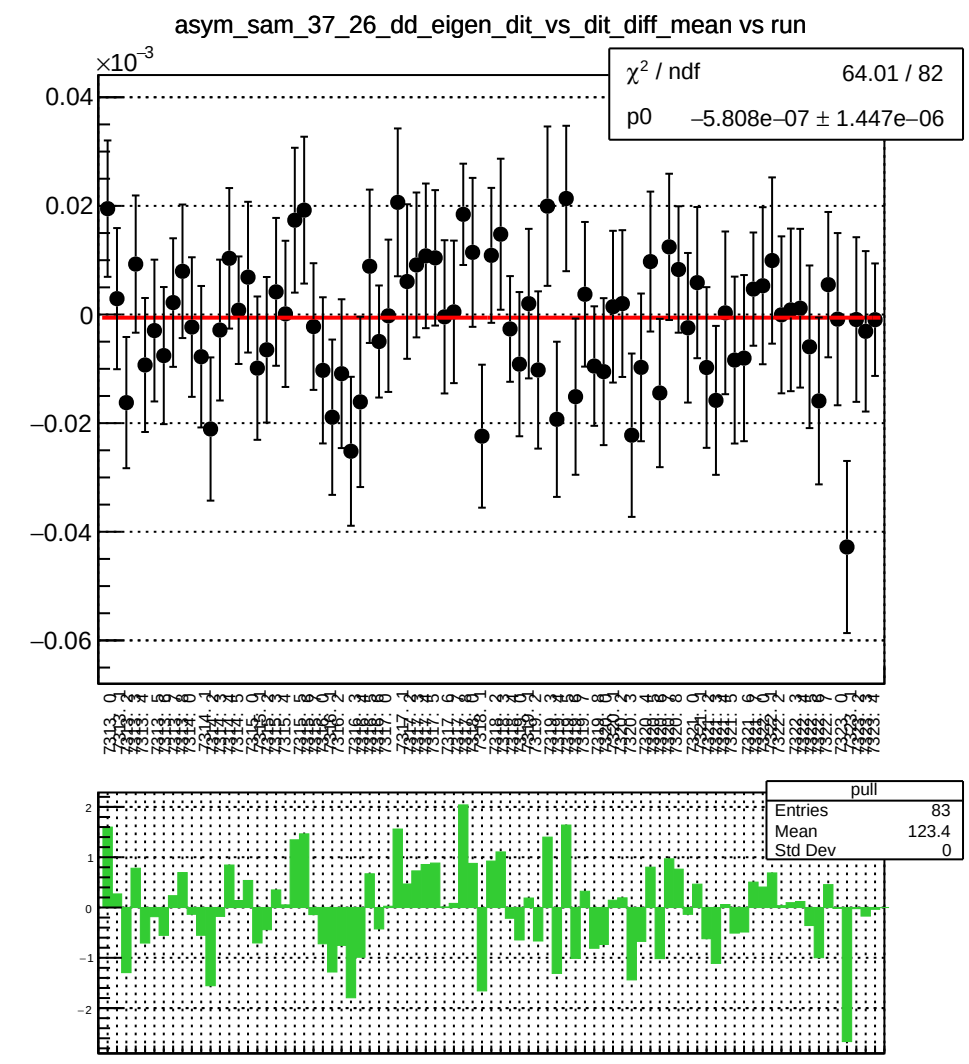

pull1D
Entries 83
Mean −0.01513
Std Dev 0.9794

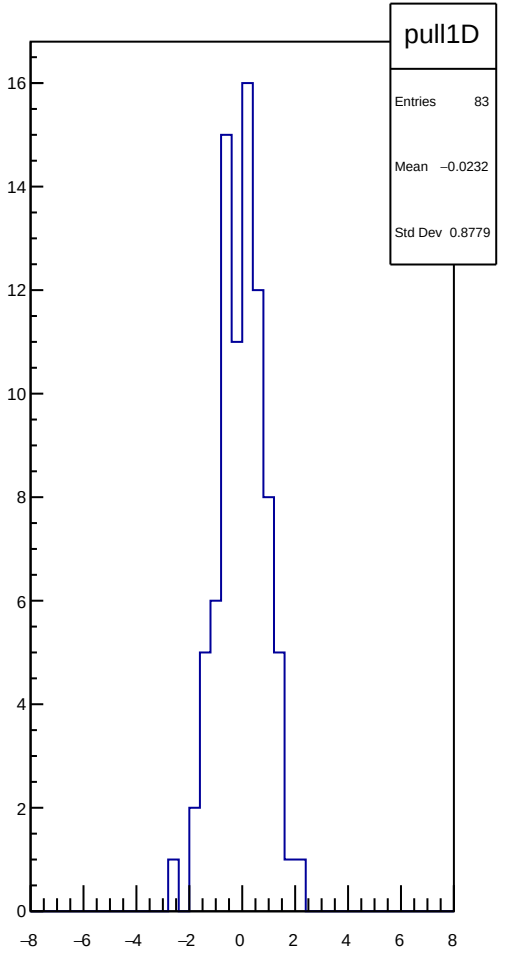

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 82
p0 17.53 ± 0.01397
26
24
22
20
18
16
14
12

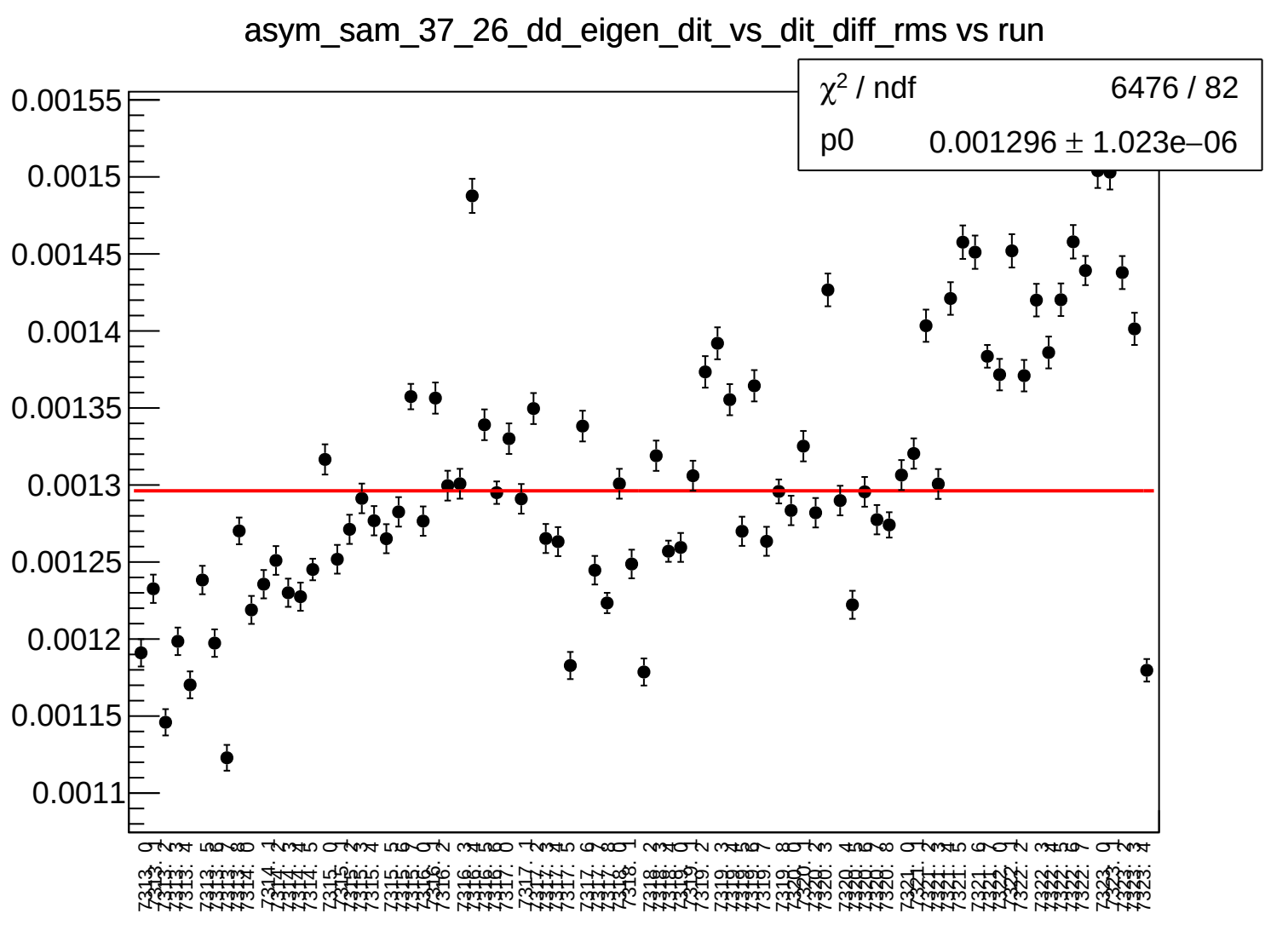

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 0.007723 ± 0.01975
pull
Entries 83
Mean −43.77
Std Dev 0

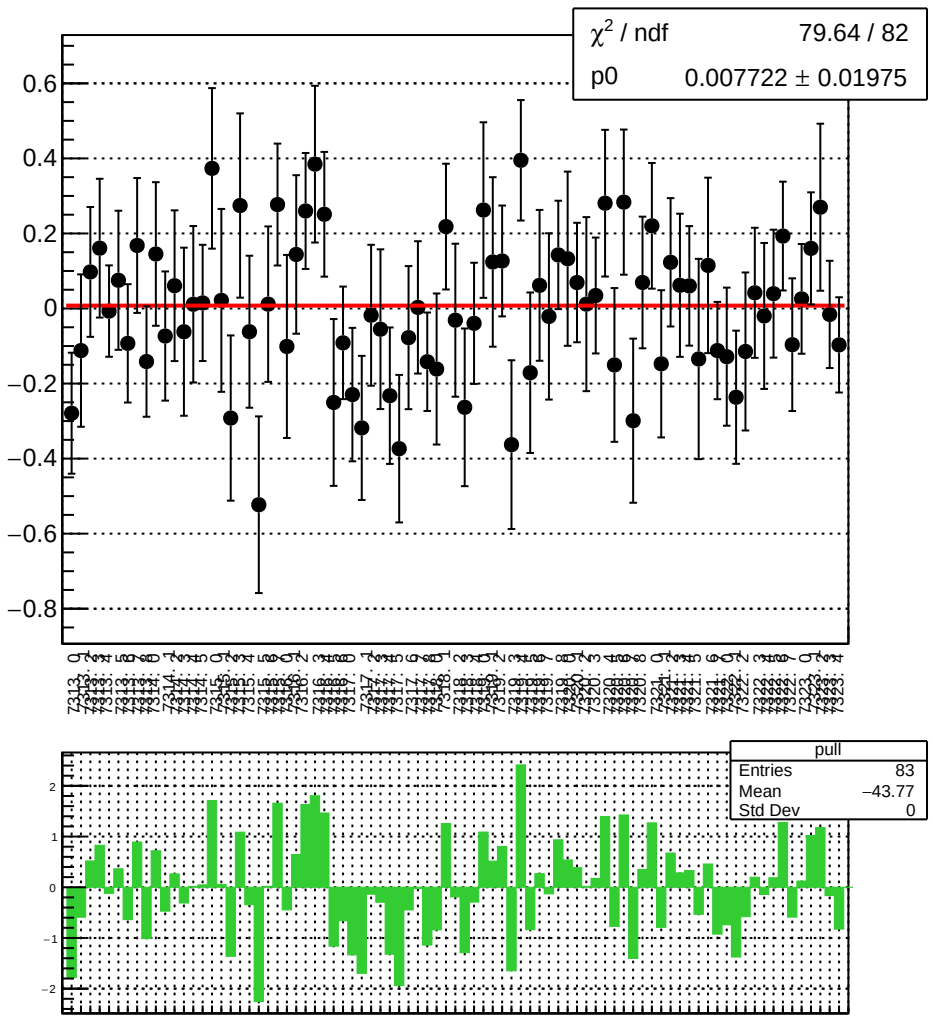

pull1D
Entries 83
Mean −0.01513
Std Dev 0.9794

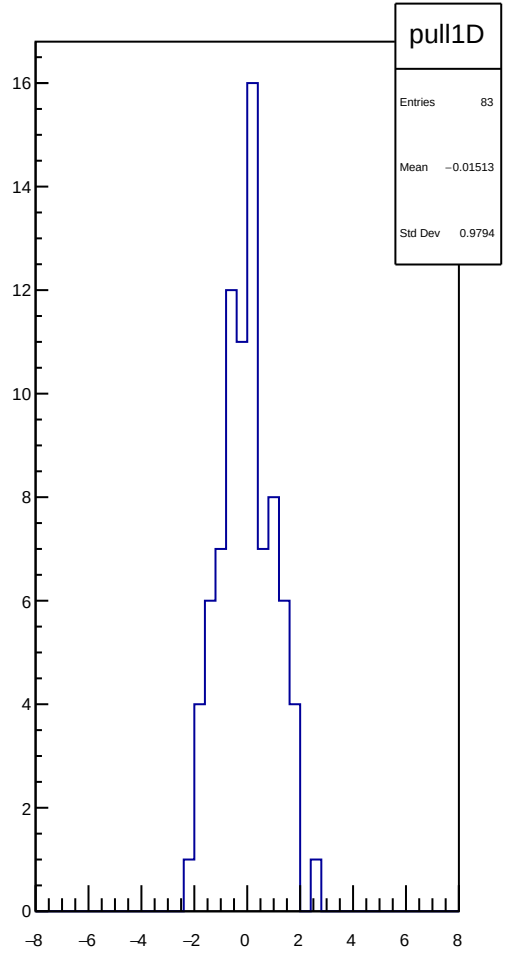

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 82
p0 17.53 ± 0.01397
26
24
22
20
18
16
14
12

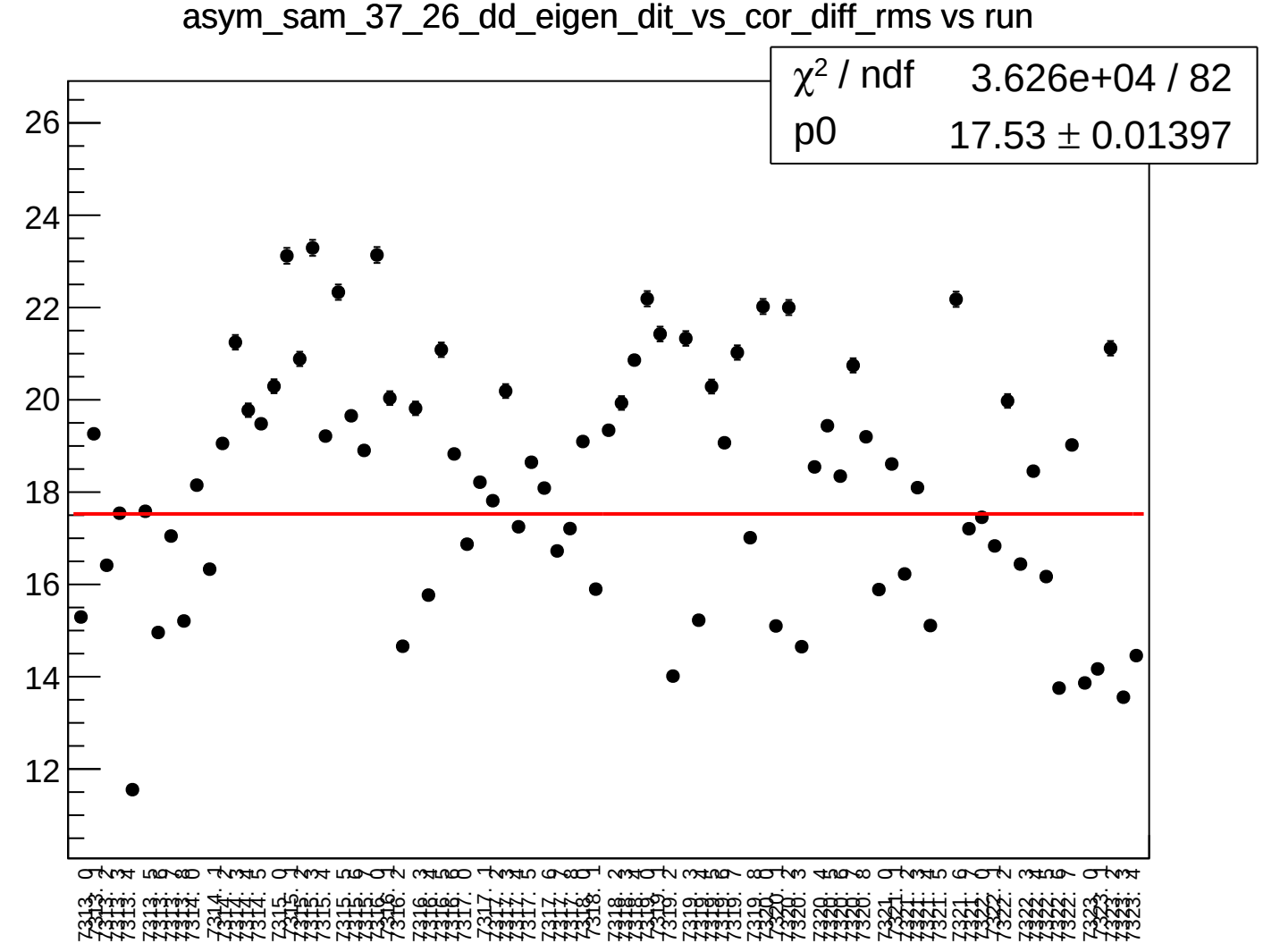

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.01 / 82
p0 −5.808e−07 ± 1.447e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 83
Mean 123.4
Std Dev 0
2
1
0
−1
−2

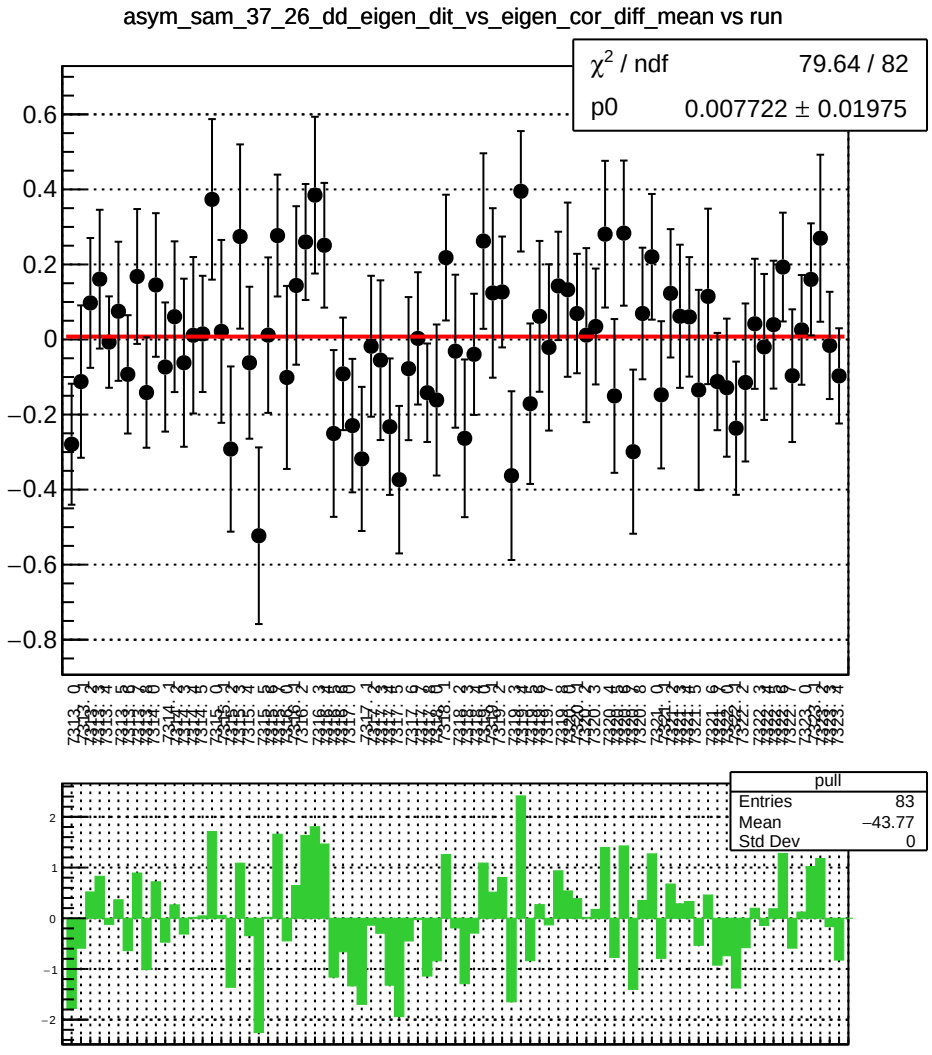

pull1D
Entries 83
Mean −0.0232
Std Dev 0.8779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

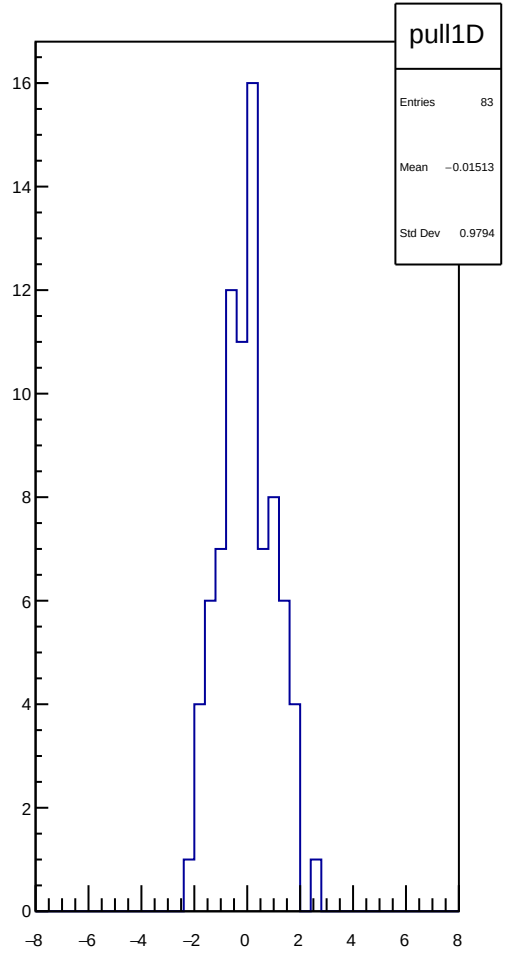

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6476 / 82
p0 0.001296 ± 1.023e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

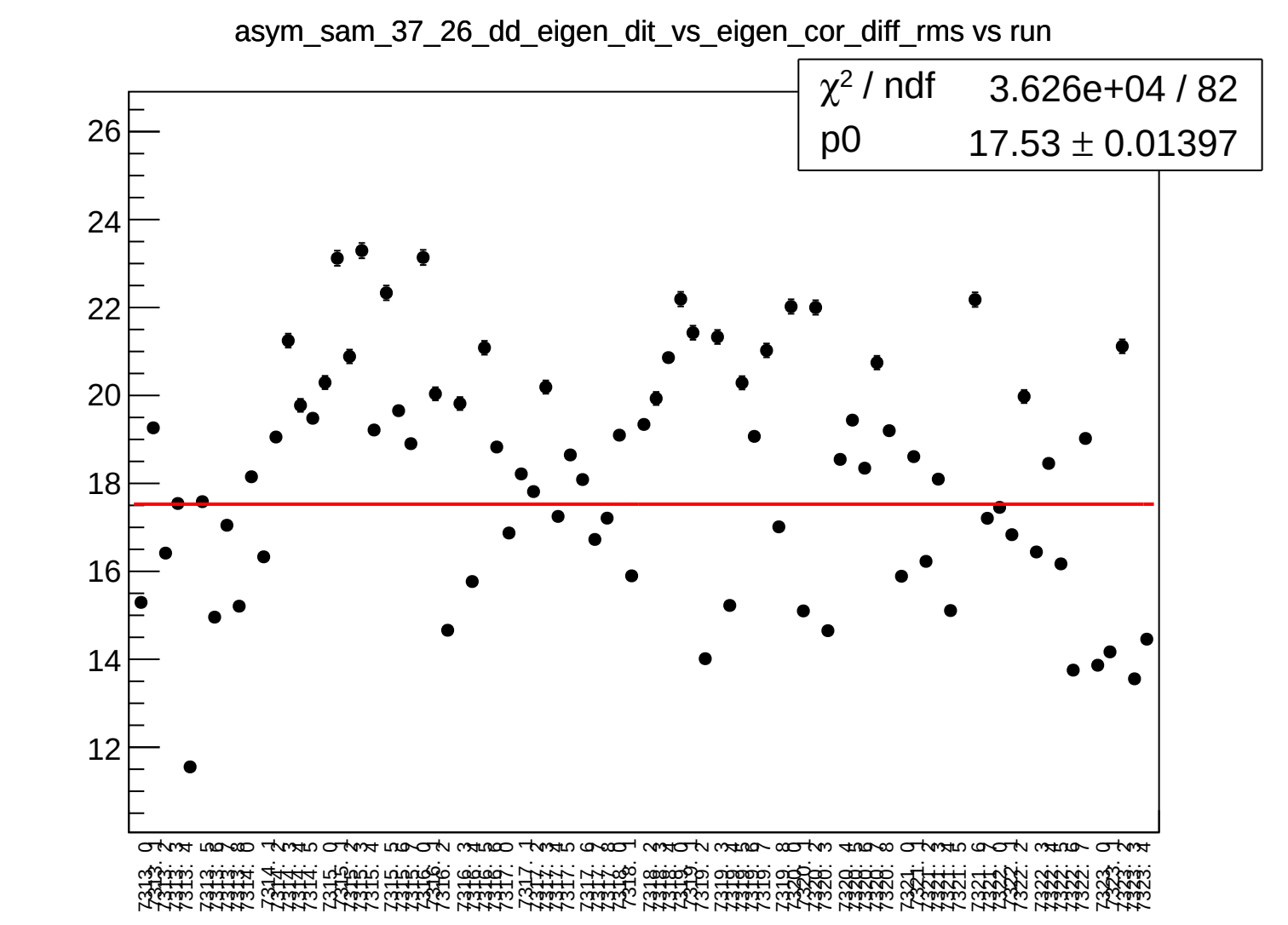

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 0.007722 ± 0.01975
pull
Entries 83
Mean −43.77
Std Dev 0

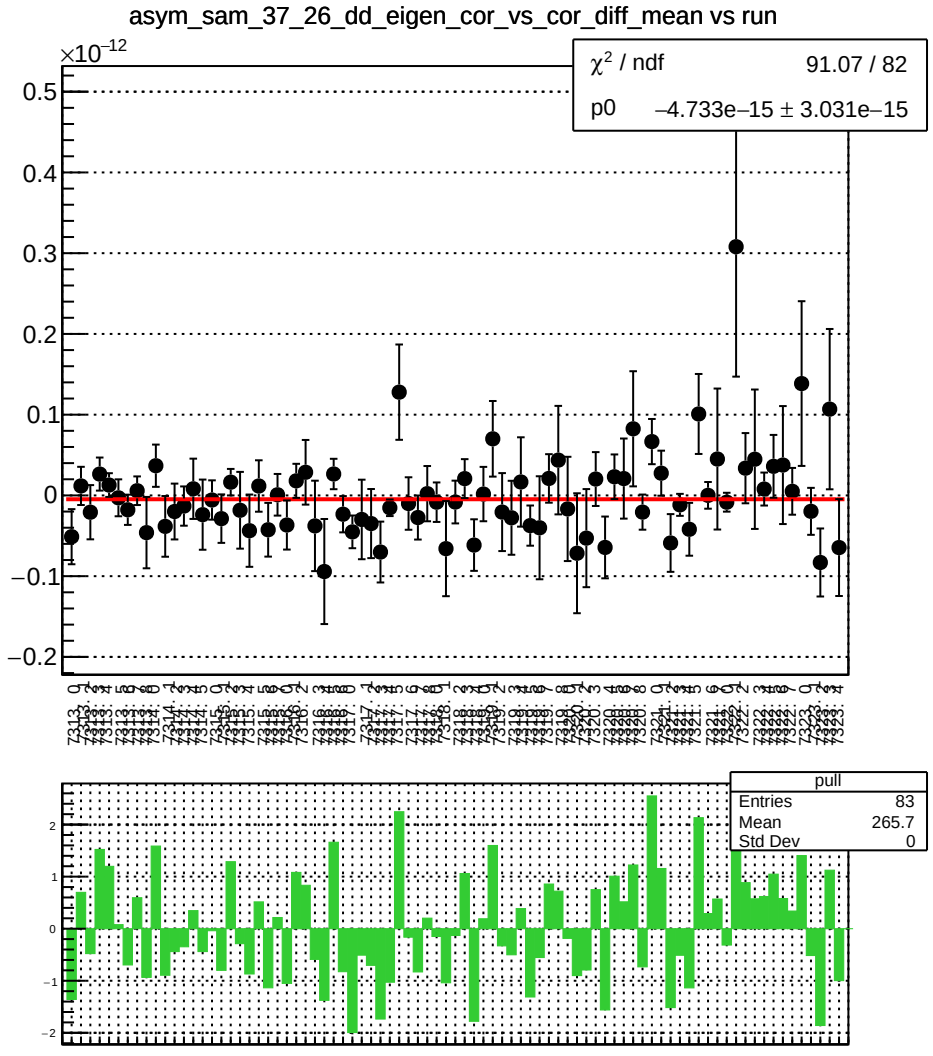

pull1D
Entries 83
Mean −0.01513
Std Dev 0.9794

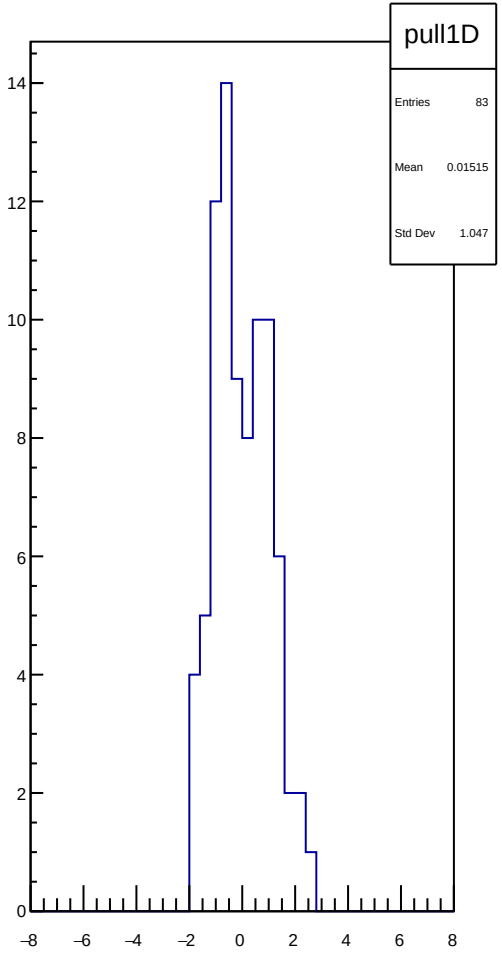

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.626e+04 / 82
p0 17.53 ± 0.01397
26
24
22
20
18
16
14
12

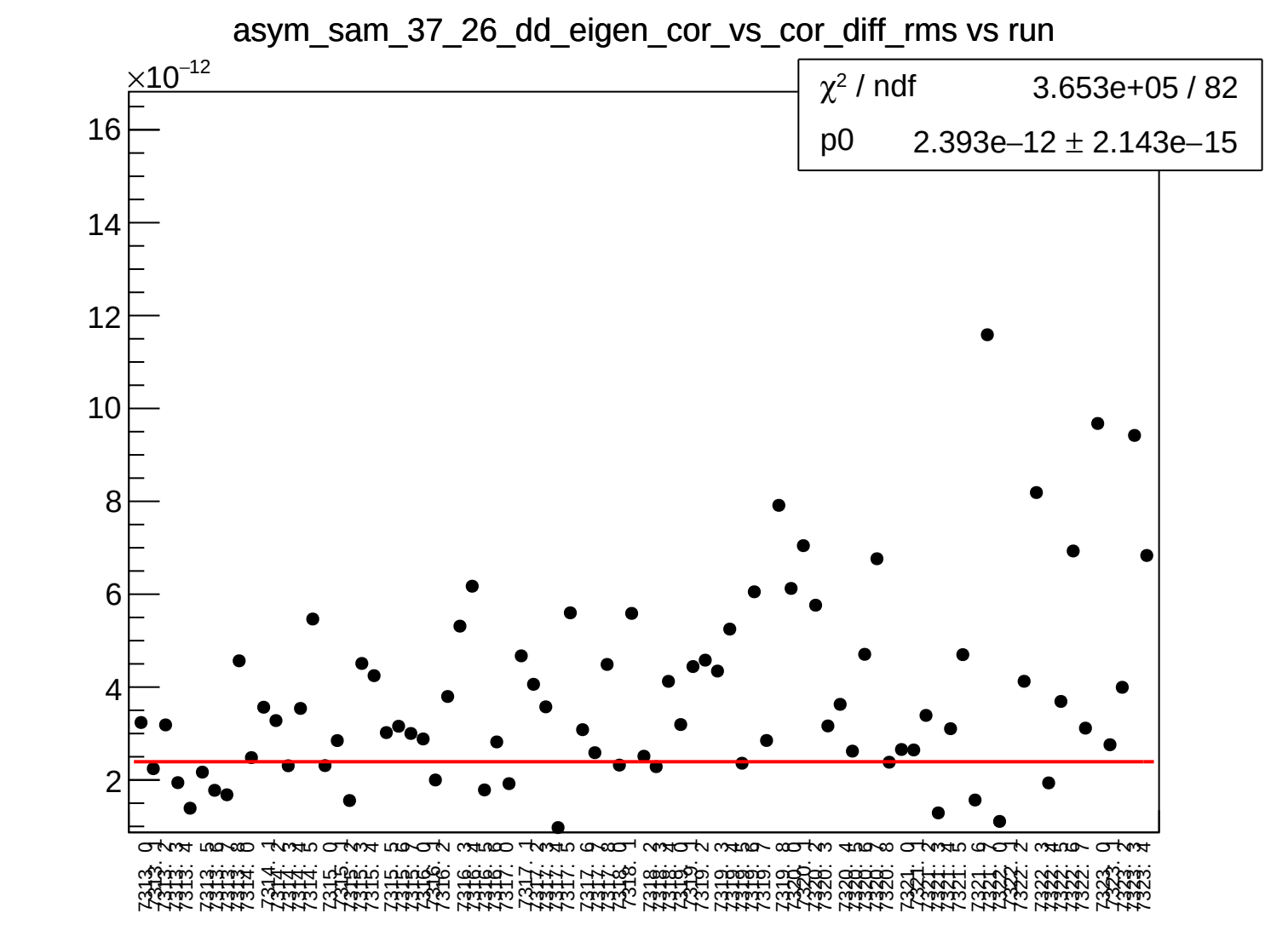

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.64 / 82
p0 0.007722 ± 0.01975
pull
Entries 83
Mean −43.77
Std Dev 0

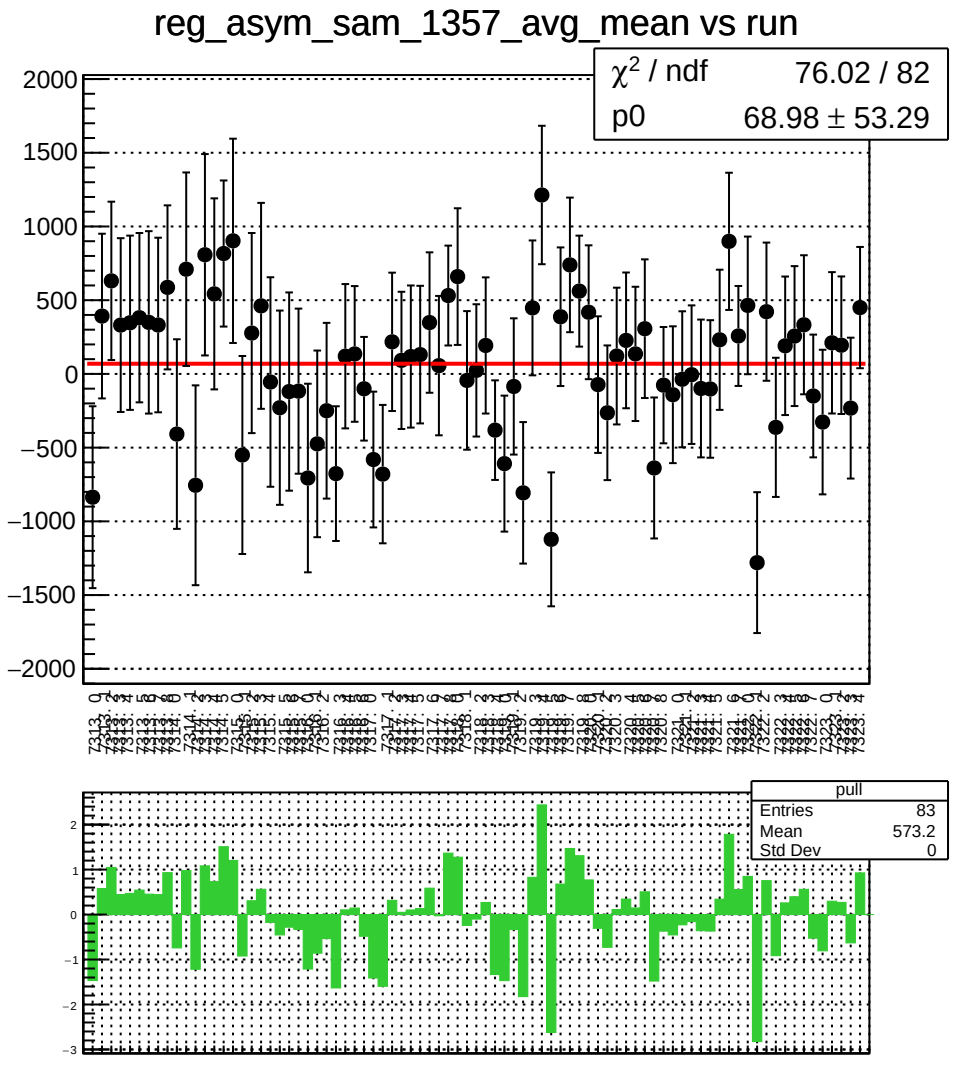

pull1D
Entries 83
Mean −0.01513
Std Dev 0.9794

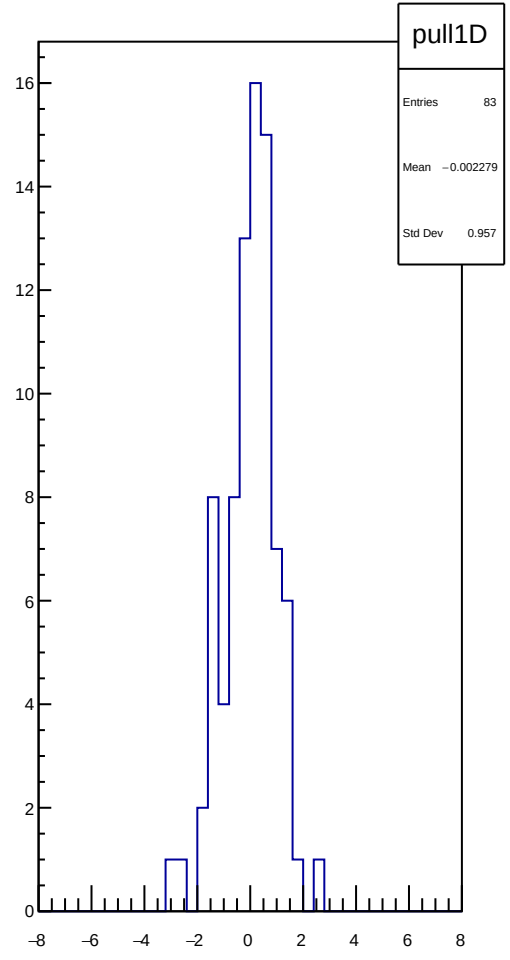

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.626e+04 / 82
p0 17.53 ± 0.01397
26
24
22
20
18
16
14
12

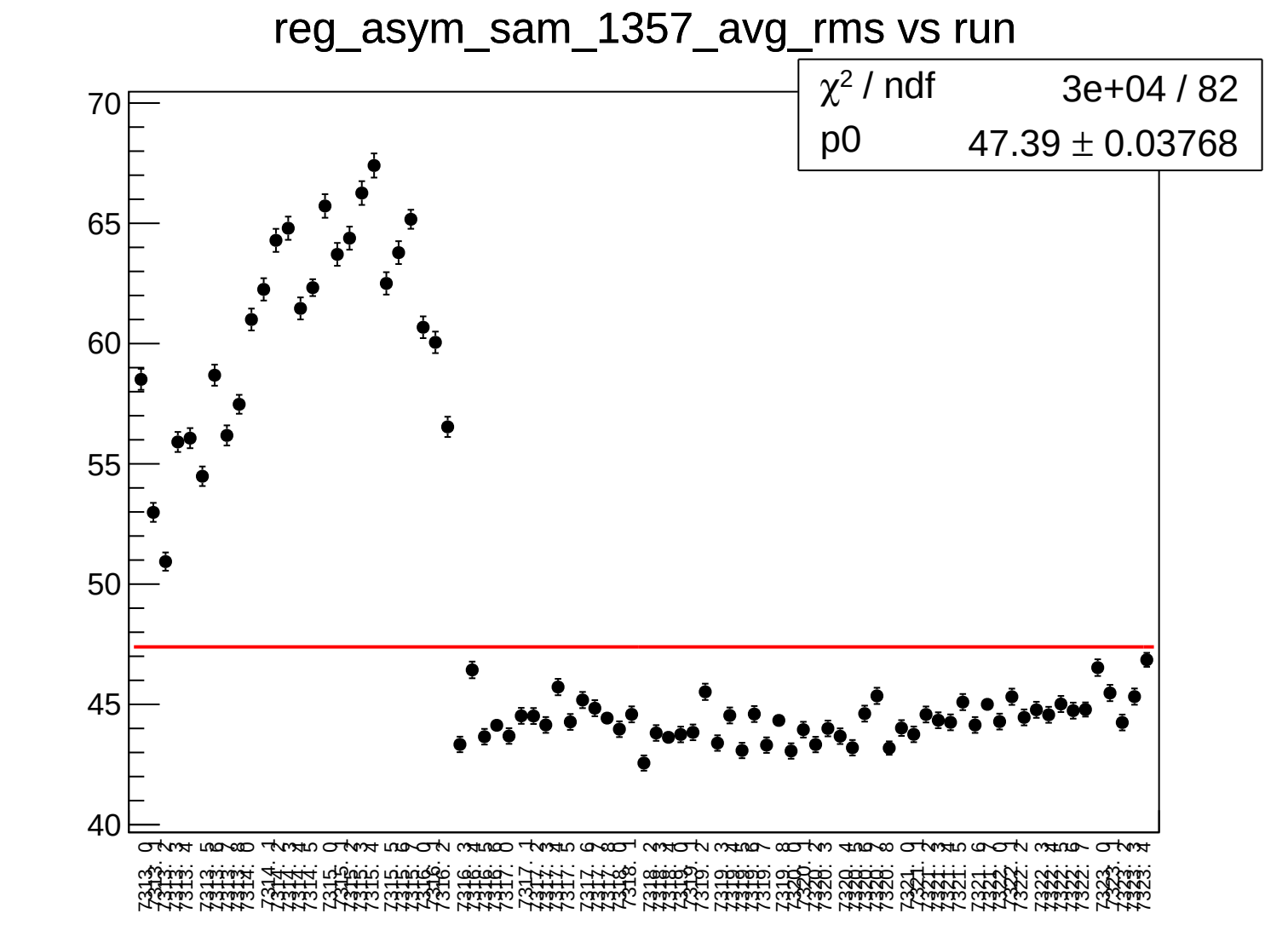

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.07 / 82
p0 −4.733e−15 ± 3.031e−15
pull
Entries 83
Mean 265.7
Std Dev 0

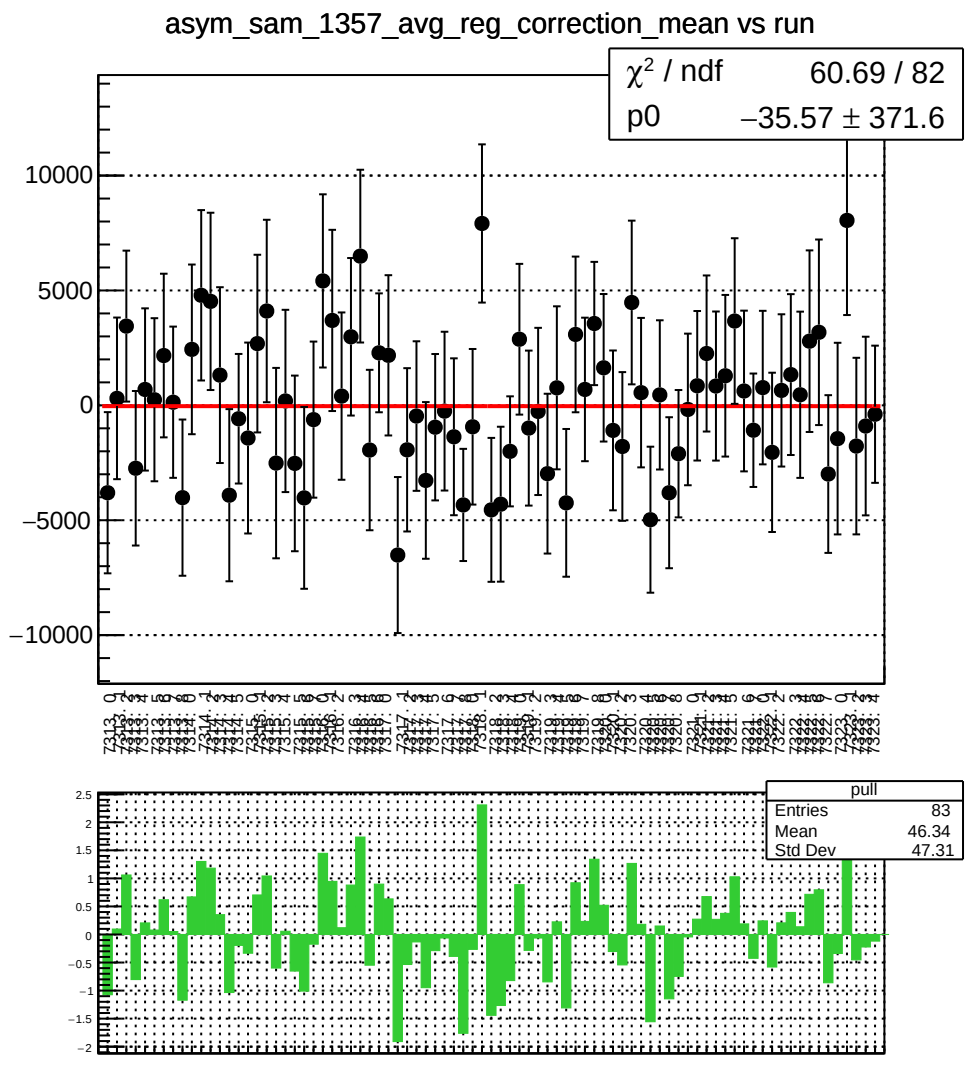

pull1D
Entries 83
Mean 0.01515
Std Dev 1.047

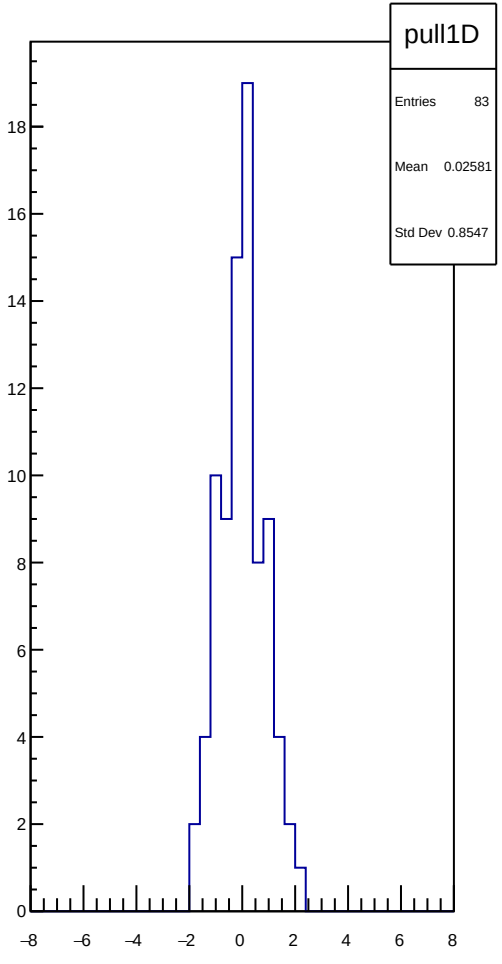

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.653e+05 / 82
p0 2.393e−12 ± 2.143e−15
16
14
12
10
8
6
4
2

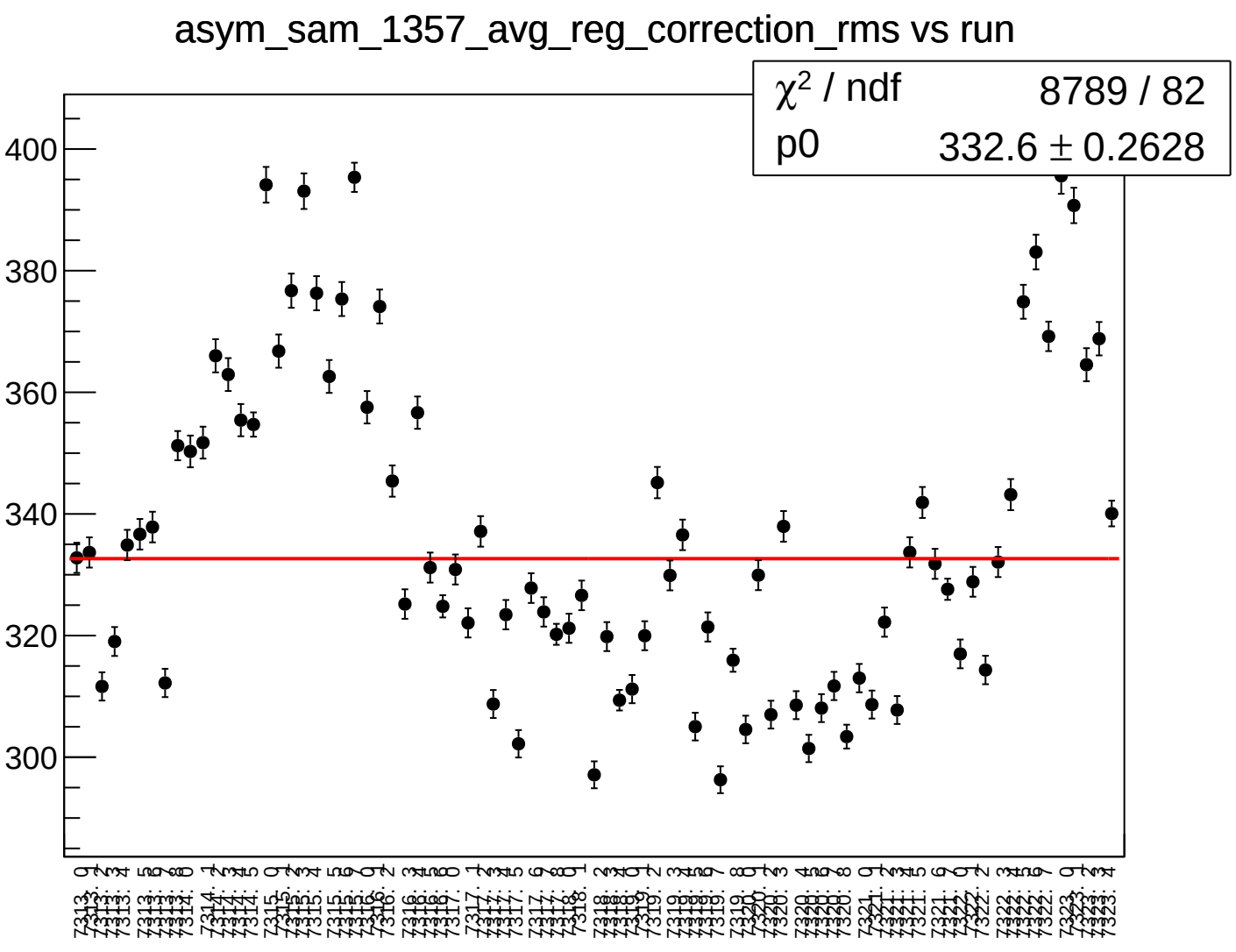

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 76.02 / 82
p0 68.98 ± 53.29
pull
Entries 83
Mean 573.2
Std Dev 0

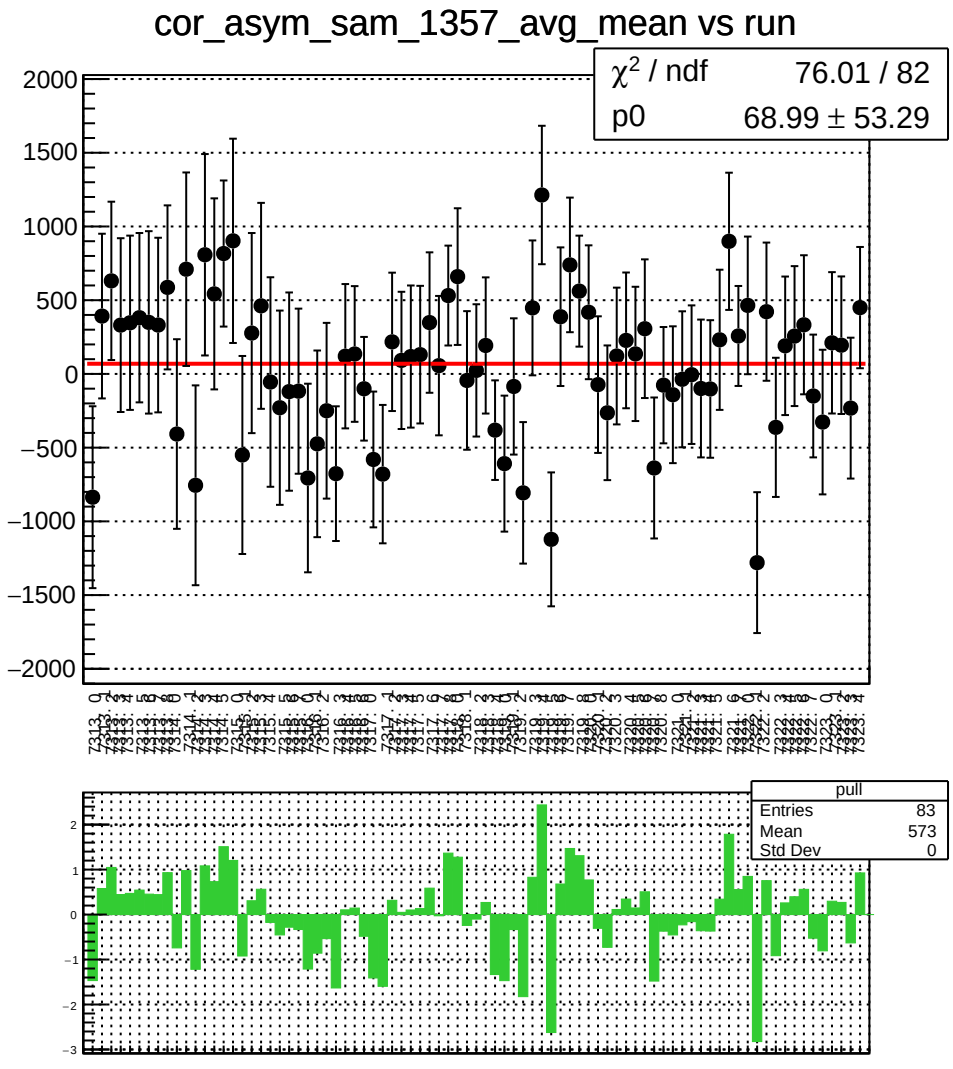

pull1D
Entries 83
Mean −0.002279
Std Dev 0.957

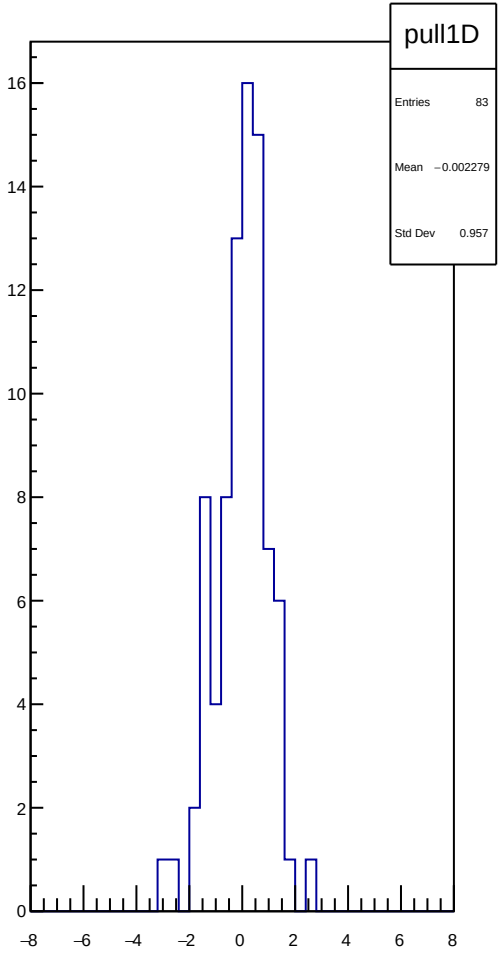

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3e+04 / 82
p0 47.39 ± 0.03768
70
65
60
55
50
45
40

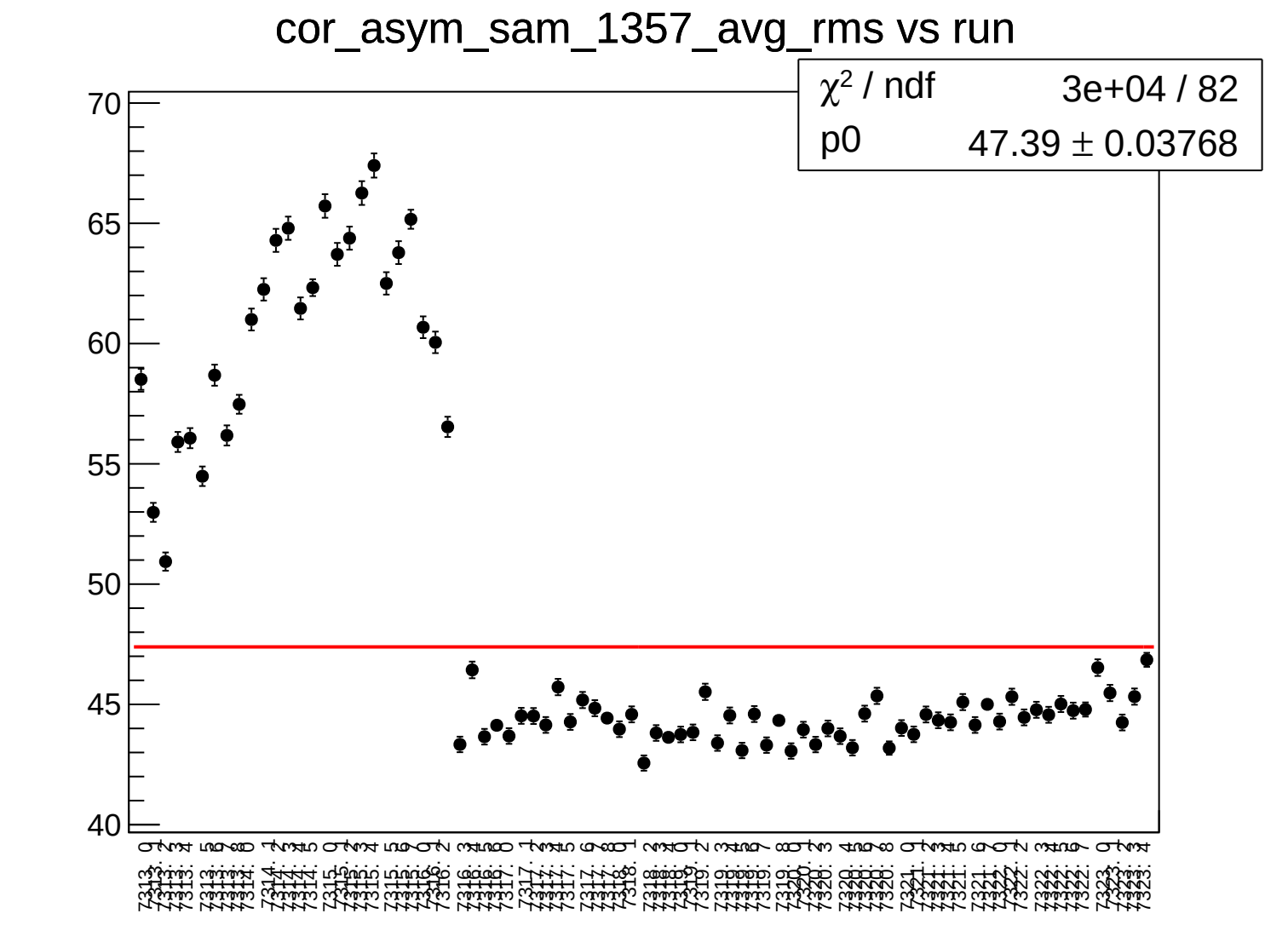

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 60.69 / 82
p0 −35.57 ± 371.6
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 46.34
Std Dev 47.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

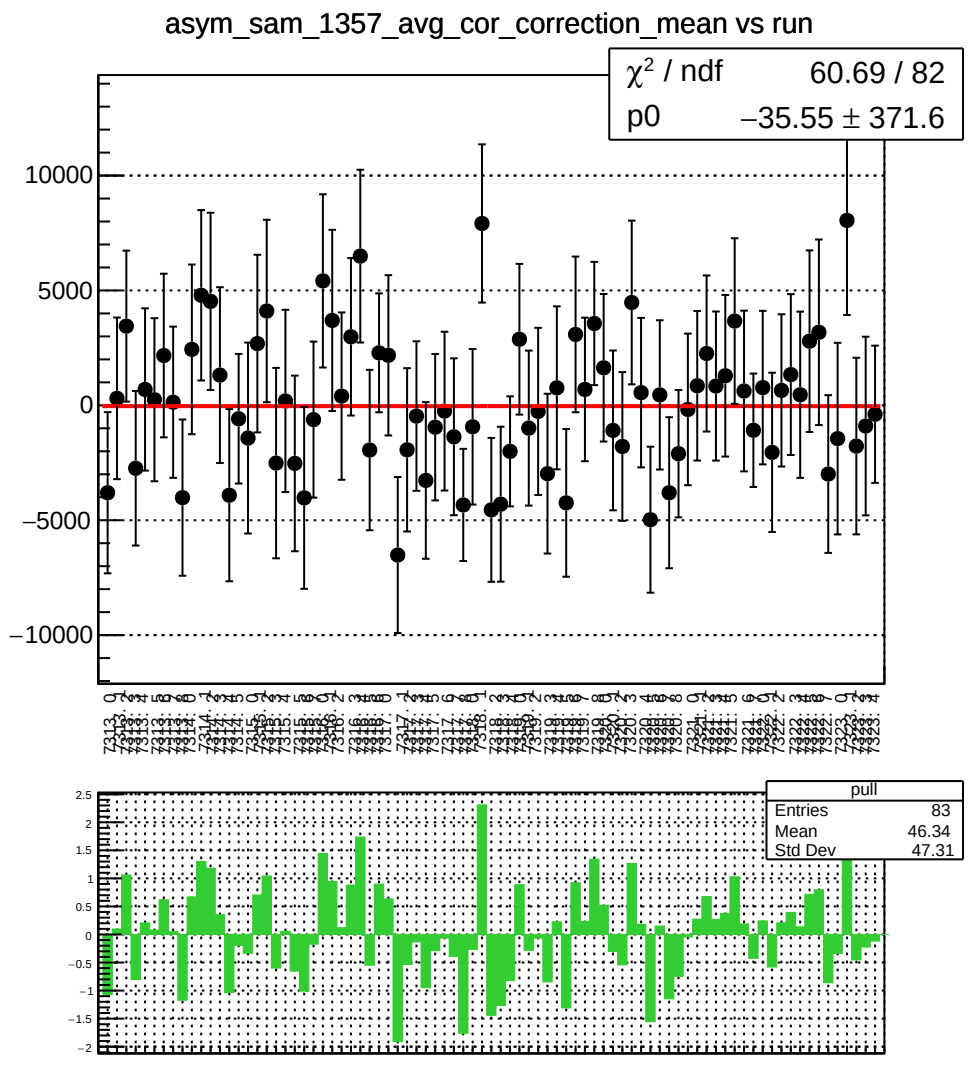

pull1D
Entries 83
Mean 0.02581
Std Dev 0.8547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

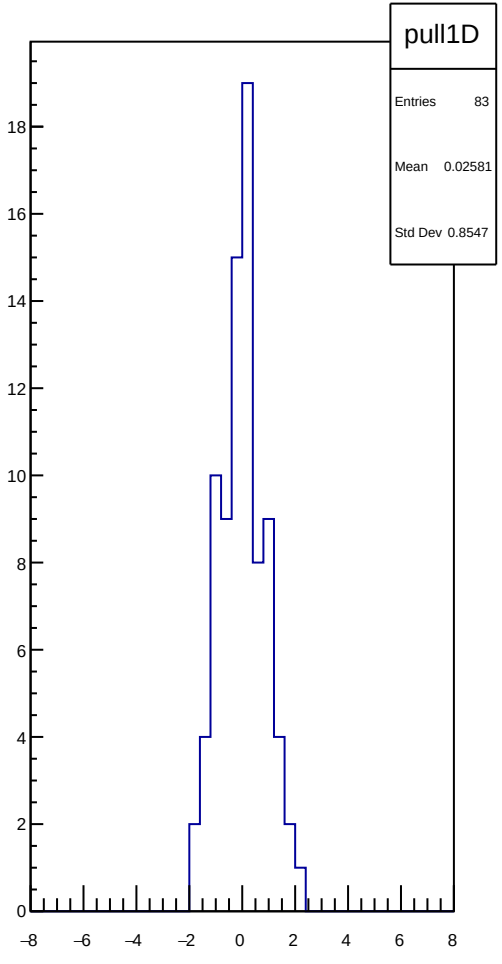

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8789 / 82
p0 332.6 ± 0.2628
400
380
360
340
320
300

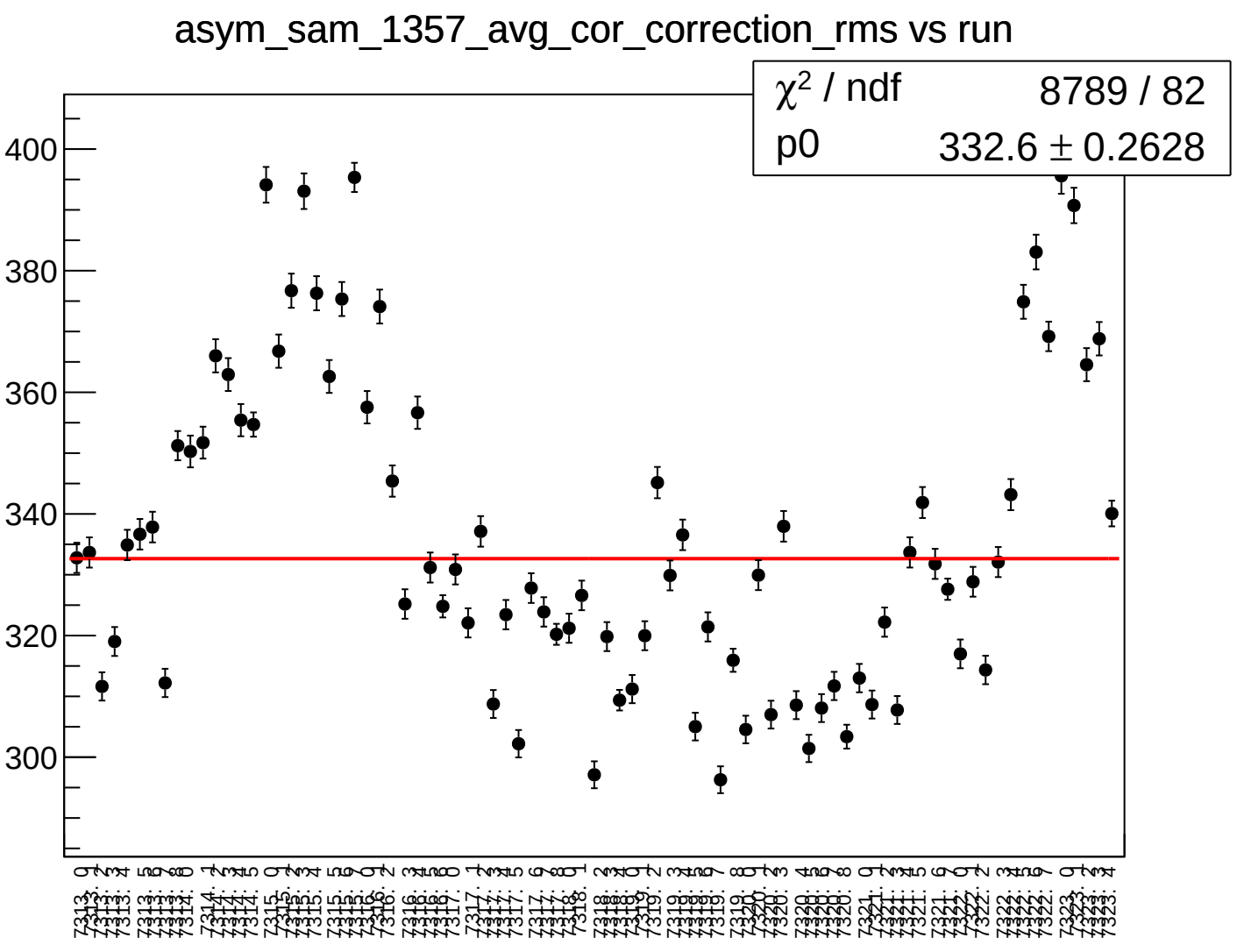

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 76.01 / 82
p0 68.99 ± 53.29
pull
Entries 83
Mean 573
Std Dev 0

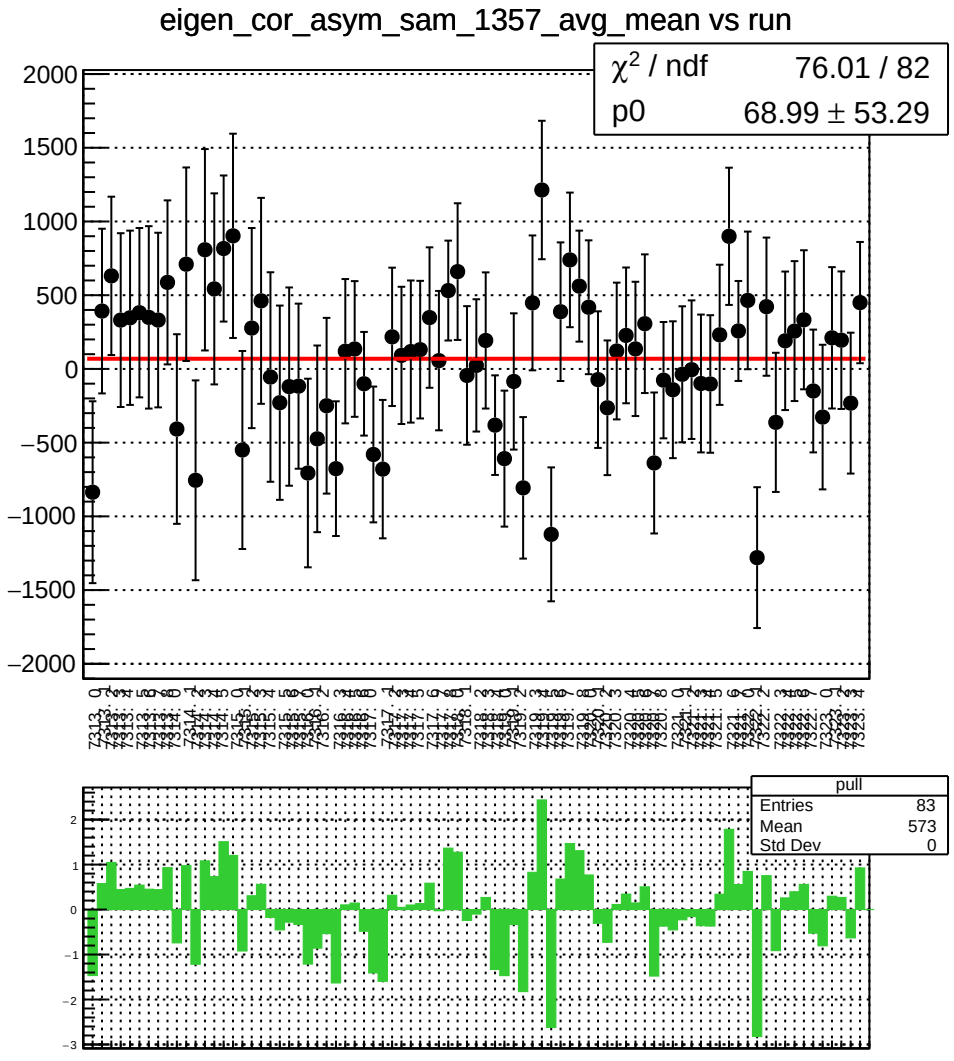

pull1D
Entries 83
Mean −0.002279
Std Dev 0.957

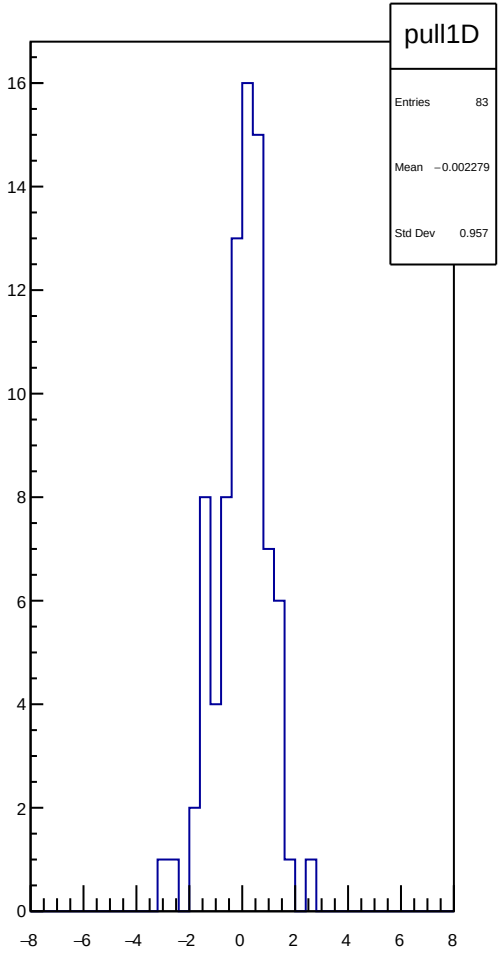

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3e+04 / 82
p0 47.39 ± 0.03768
70
65
60
55
50
45
40

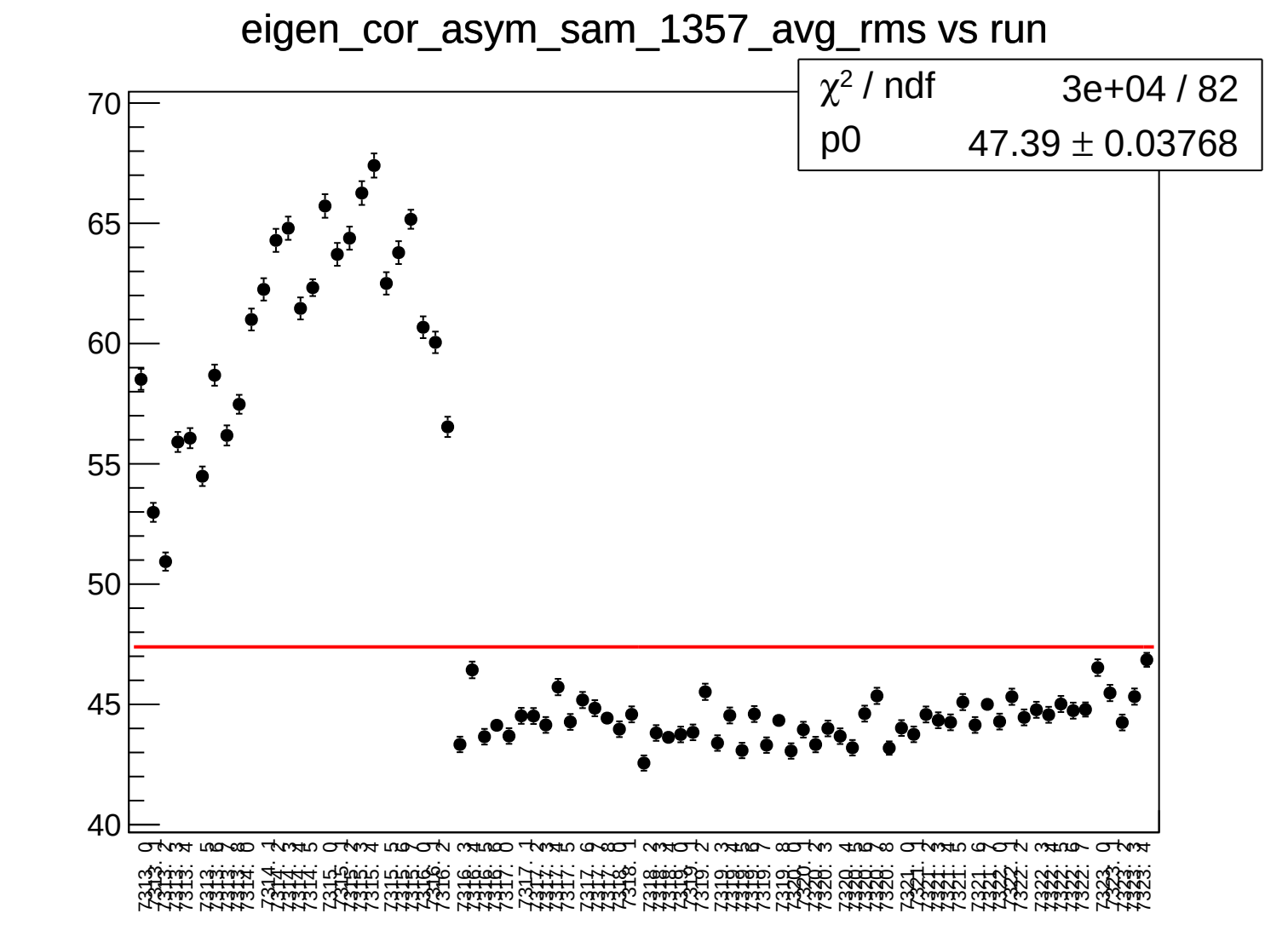

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 60.69 / 82
p0 −35.55 ± 371.6
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 46.34
Std Dev 47.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

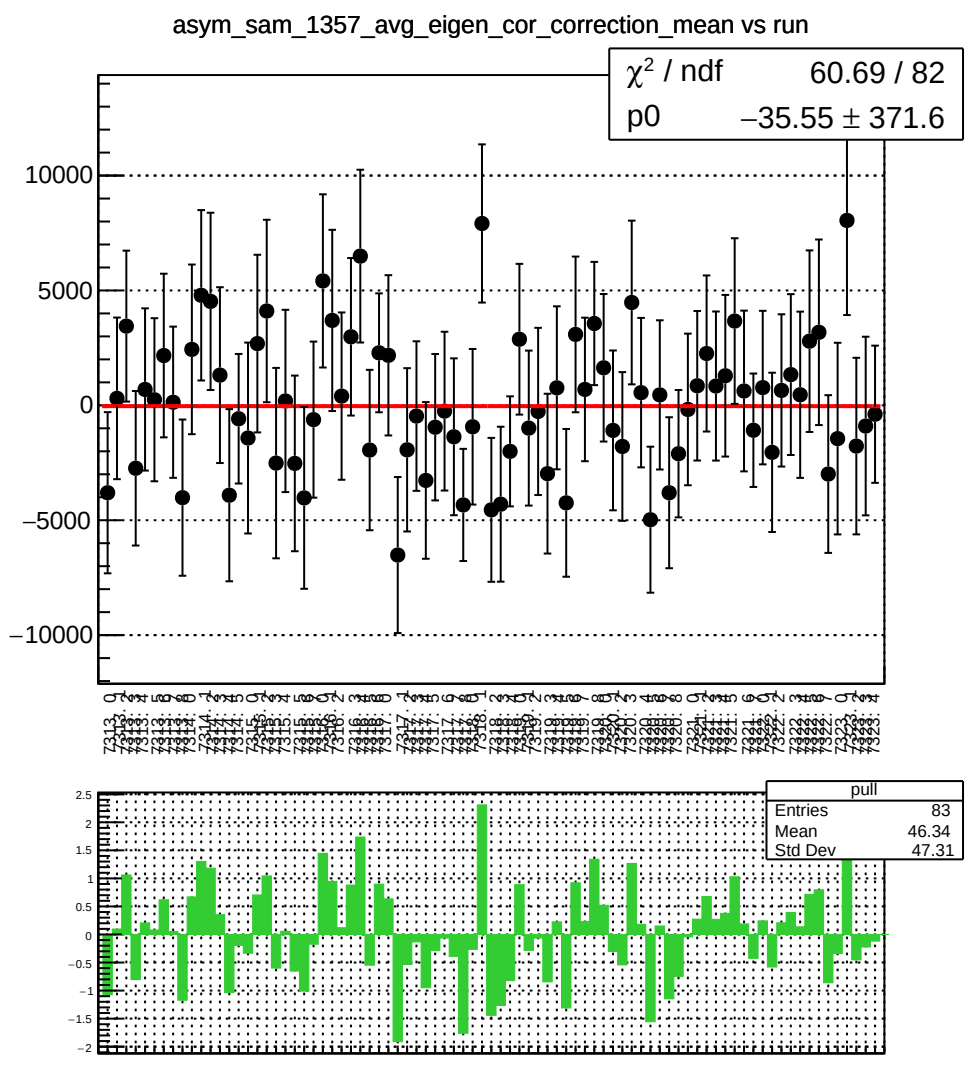

pull1D
Entries 83
Mean 0.02581
Std Dev 0.8547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

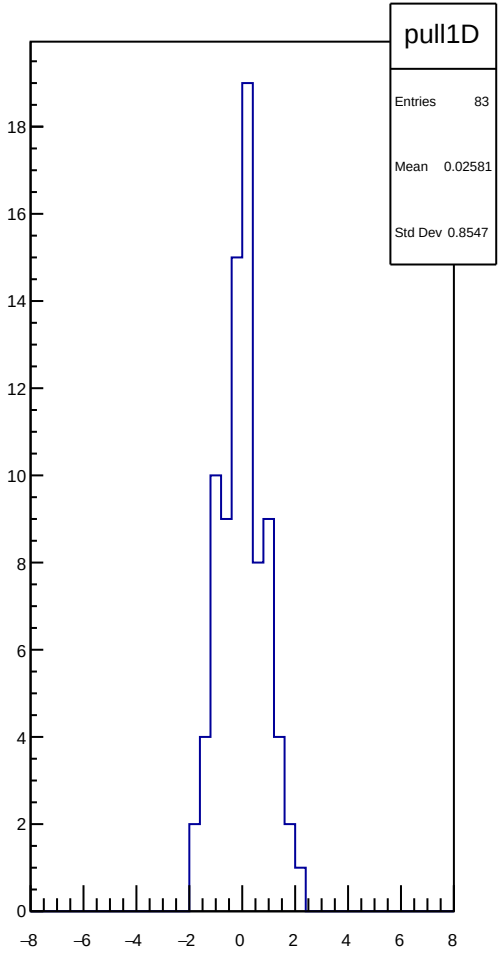

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8789 / 82
p0 332.6 ± 0.2628
400
380
360
340
320
300

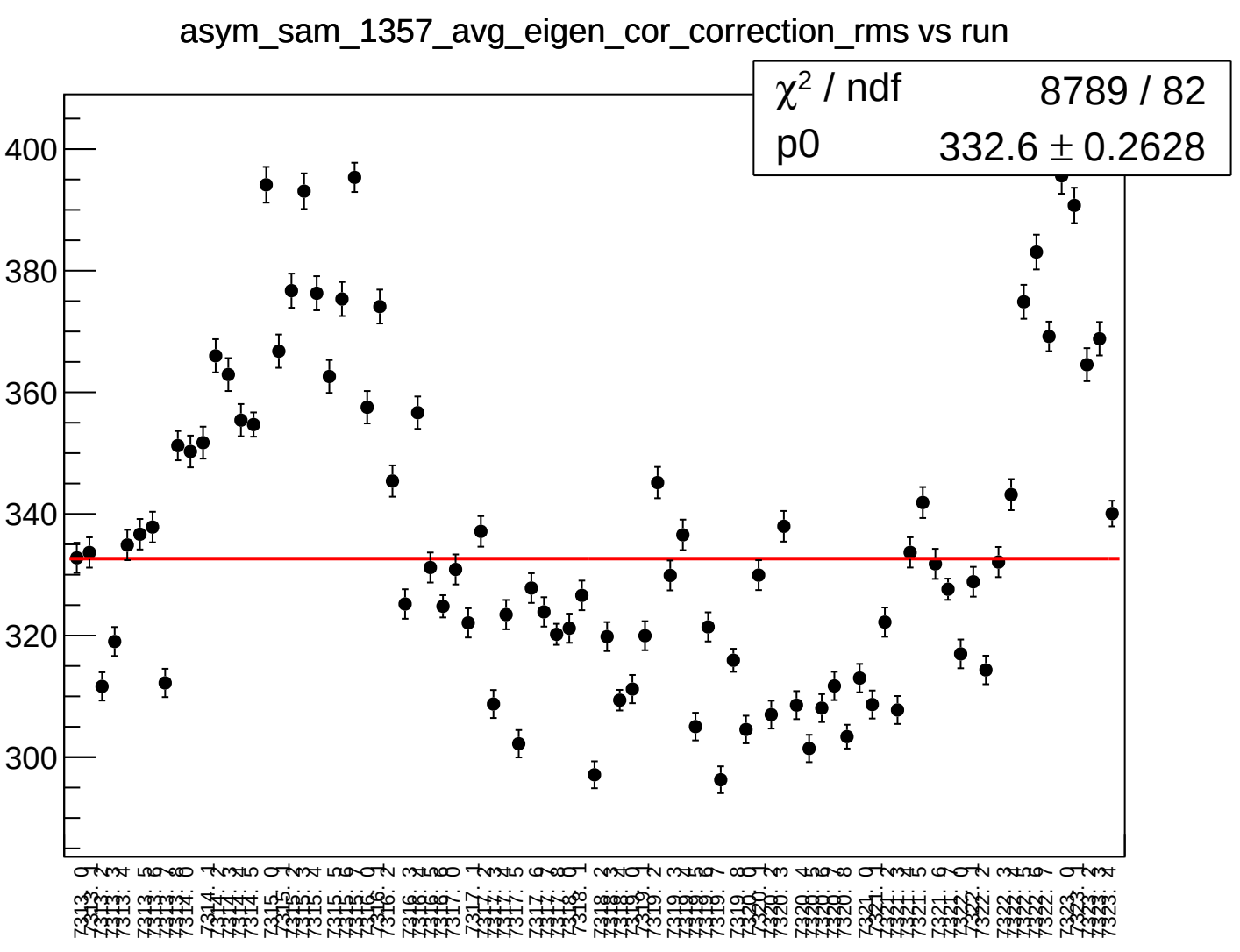

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 76.01 / 82
p0 68.99 ± 53.29
pull
Entries 83
Mean 573
Std Dev 0

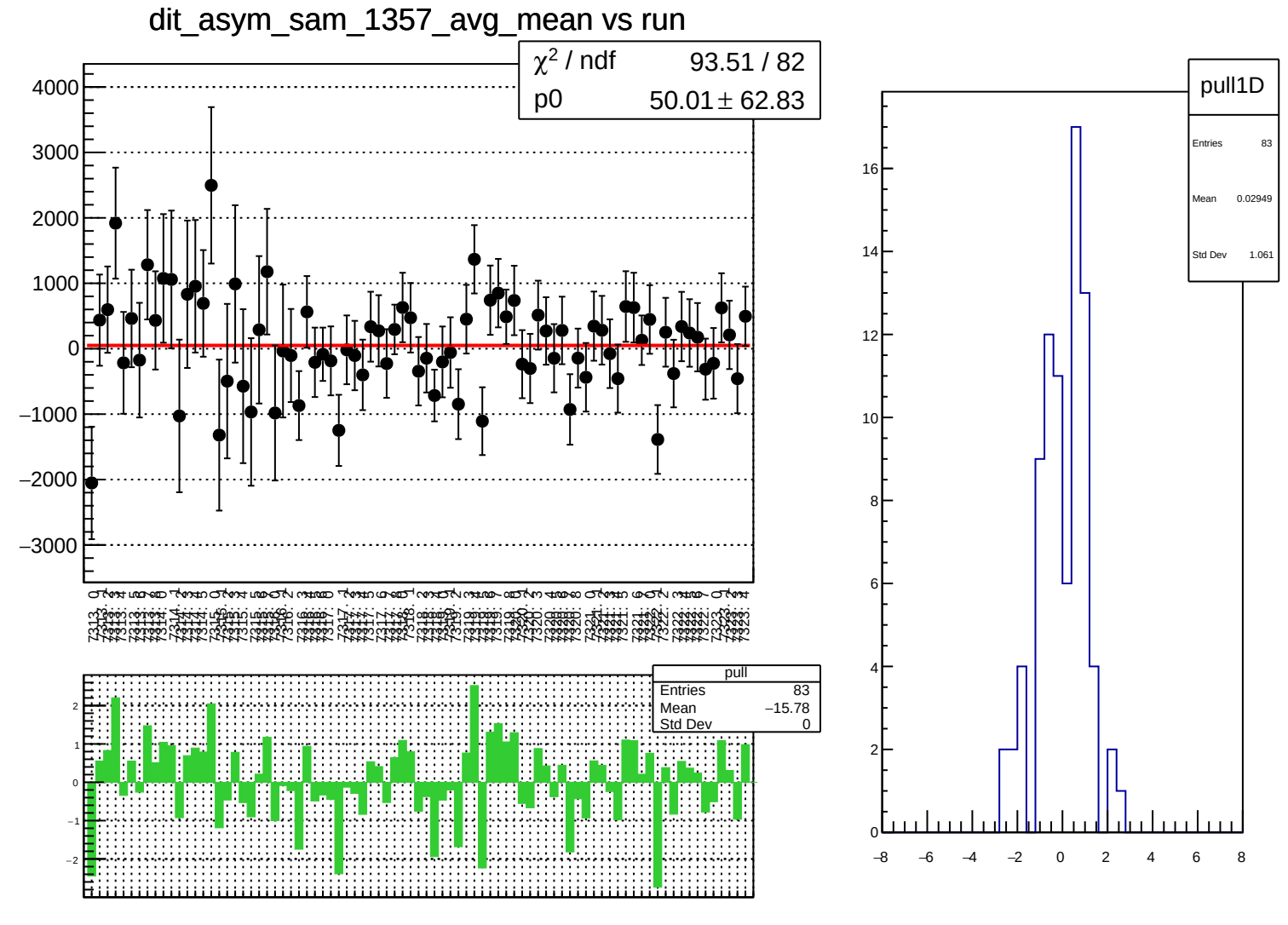

pull1D
Entries 83
Mean −0.002279
Std Dev 0.957

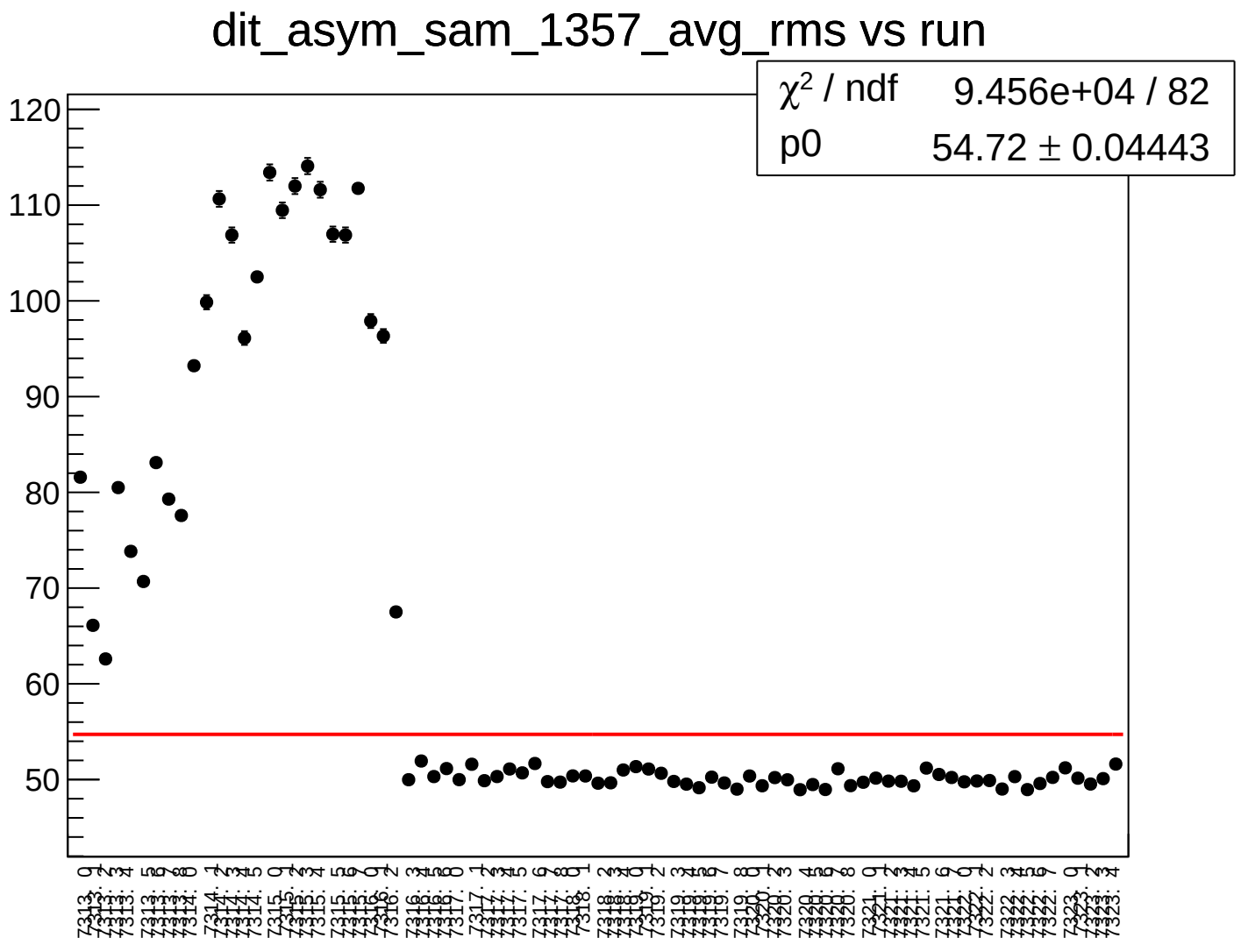

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3e+04 / 82
p0 47.39 ± 0.03768
70
65
60
55
50
45
40

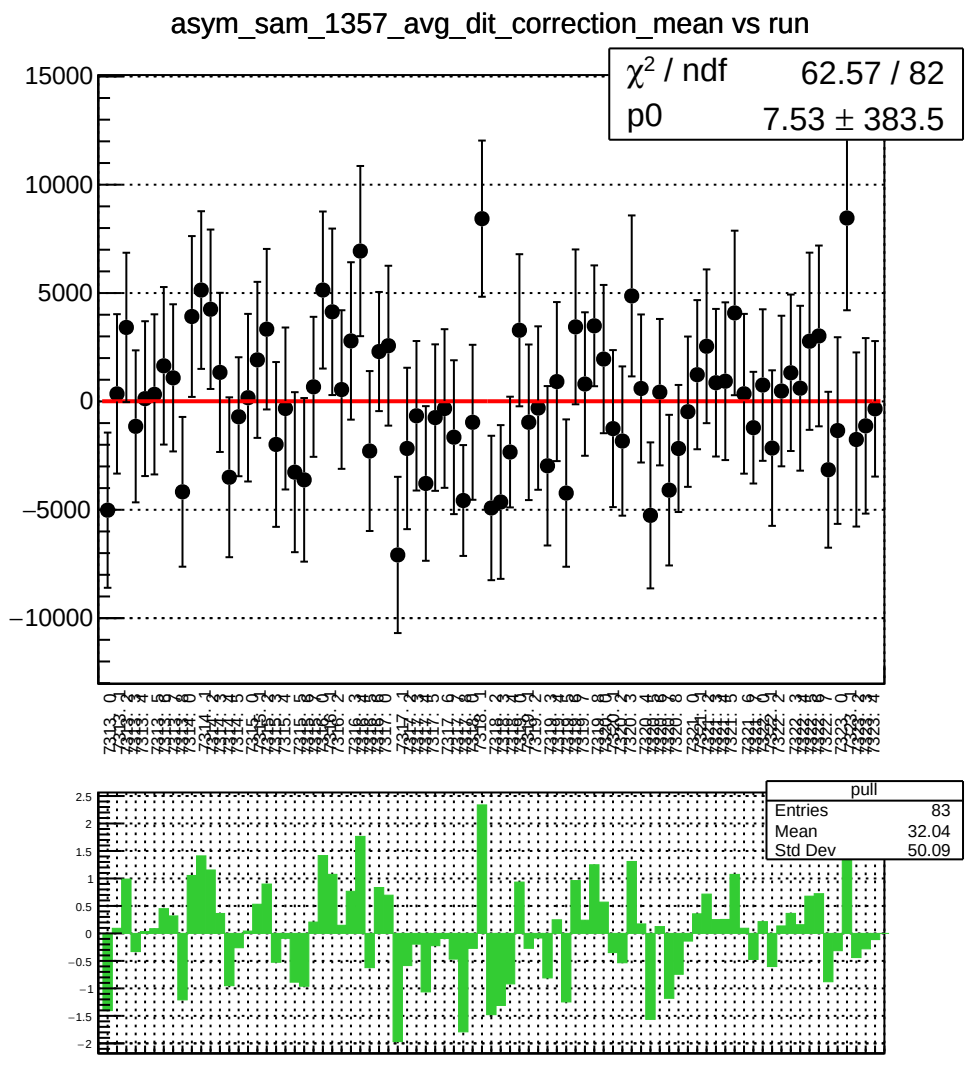

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 60.69 / 82
p0 −35.55 ± 371.6
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 46.34
Std Dev 47.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

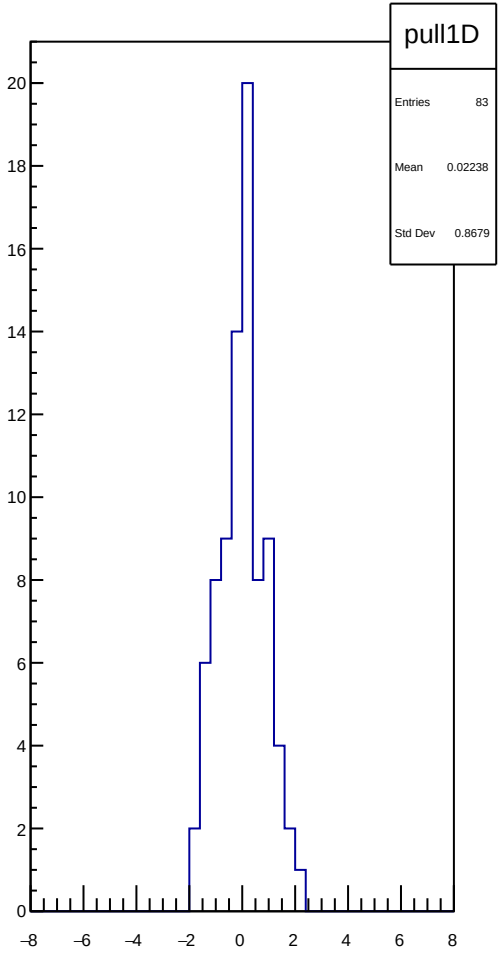

pull1D
Entries 83
Mean 0.02581
Std Dev 0.8547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

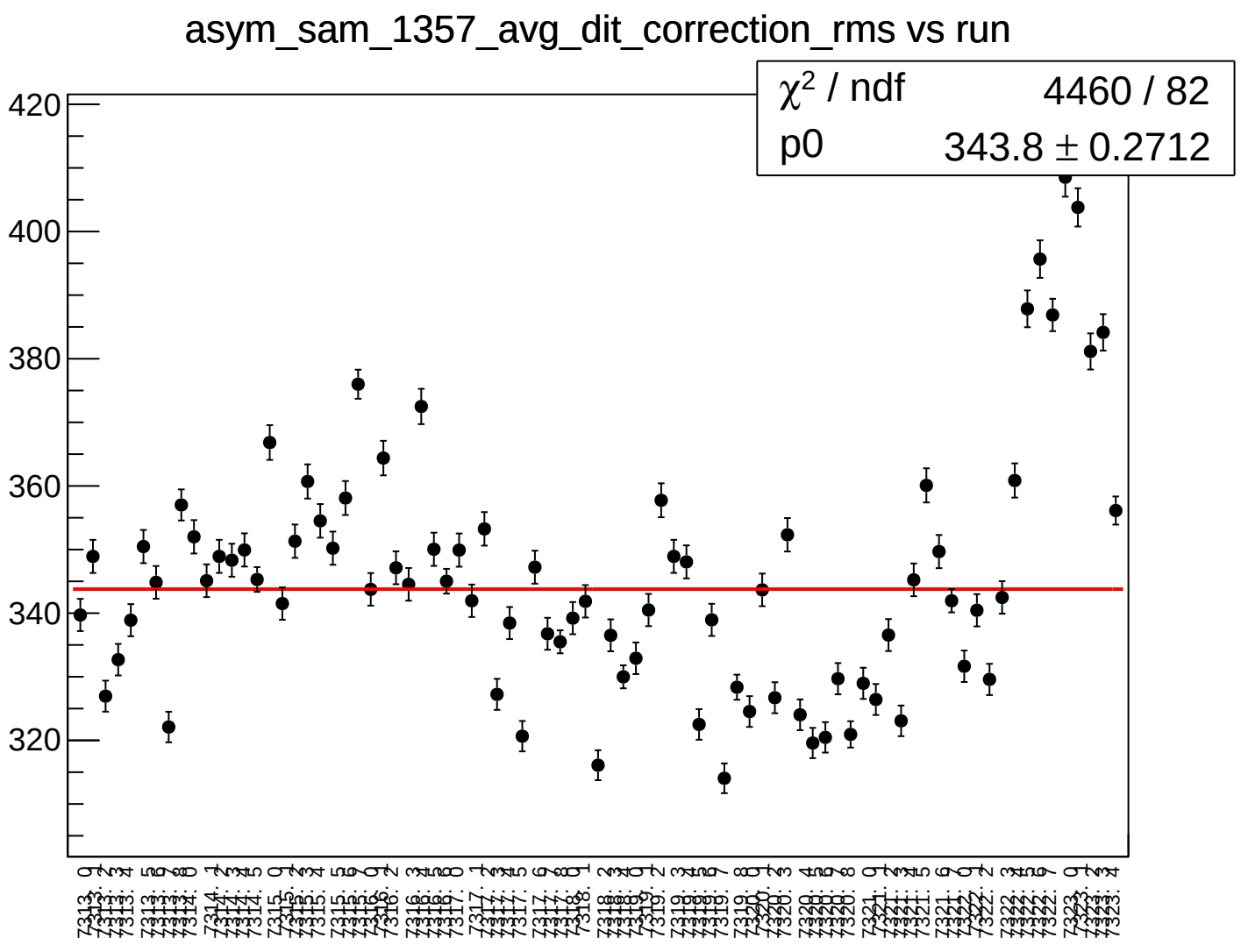

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8789 / 82
p0 332.6 ± 0.2628
400
380
360
340
320
300

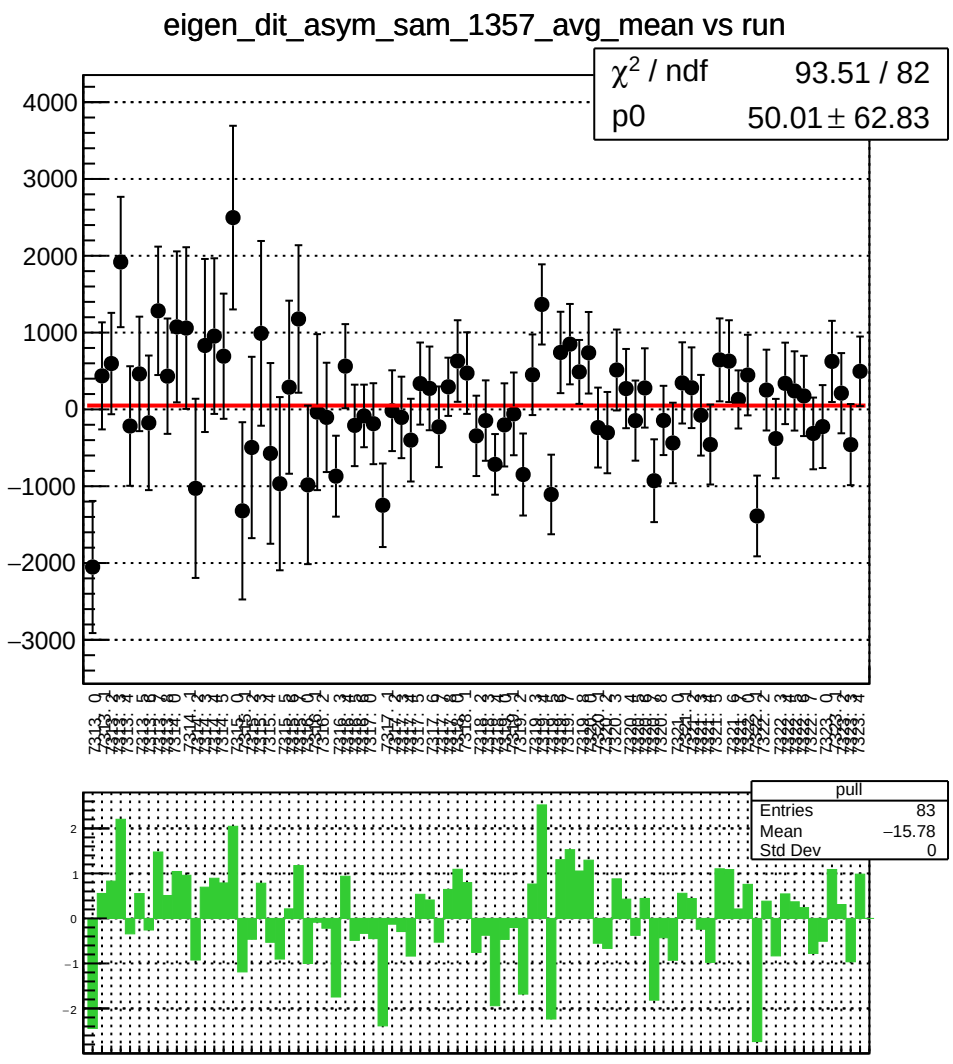

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 93.51 / 82
p0 50.01 ± 62.83
pull
Entries 83
Mean −15.78
Std Dev 0
pull1D
Entries 83
Mean 0.02949
Std Dev 1.061

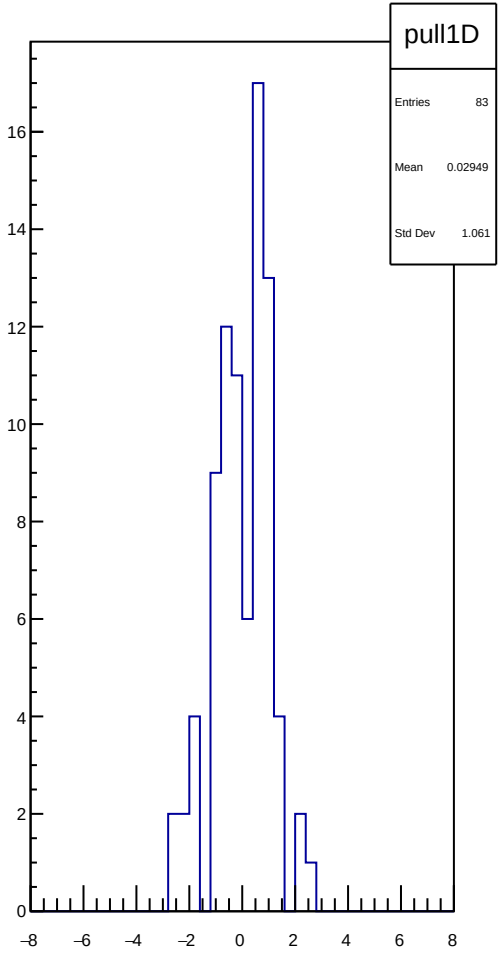

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 9.456e+04 / 82
p0 54.72 ± 0.04443
120
110
100
90
80
70
60
50

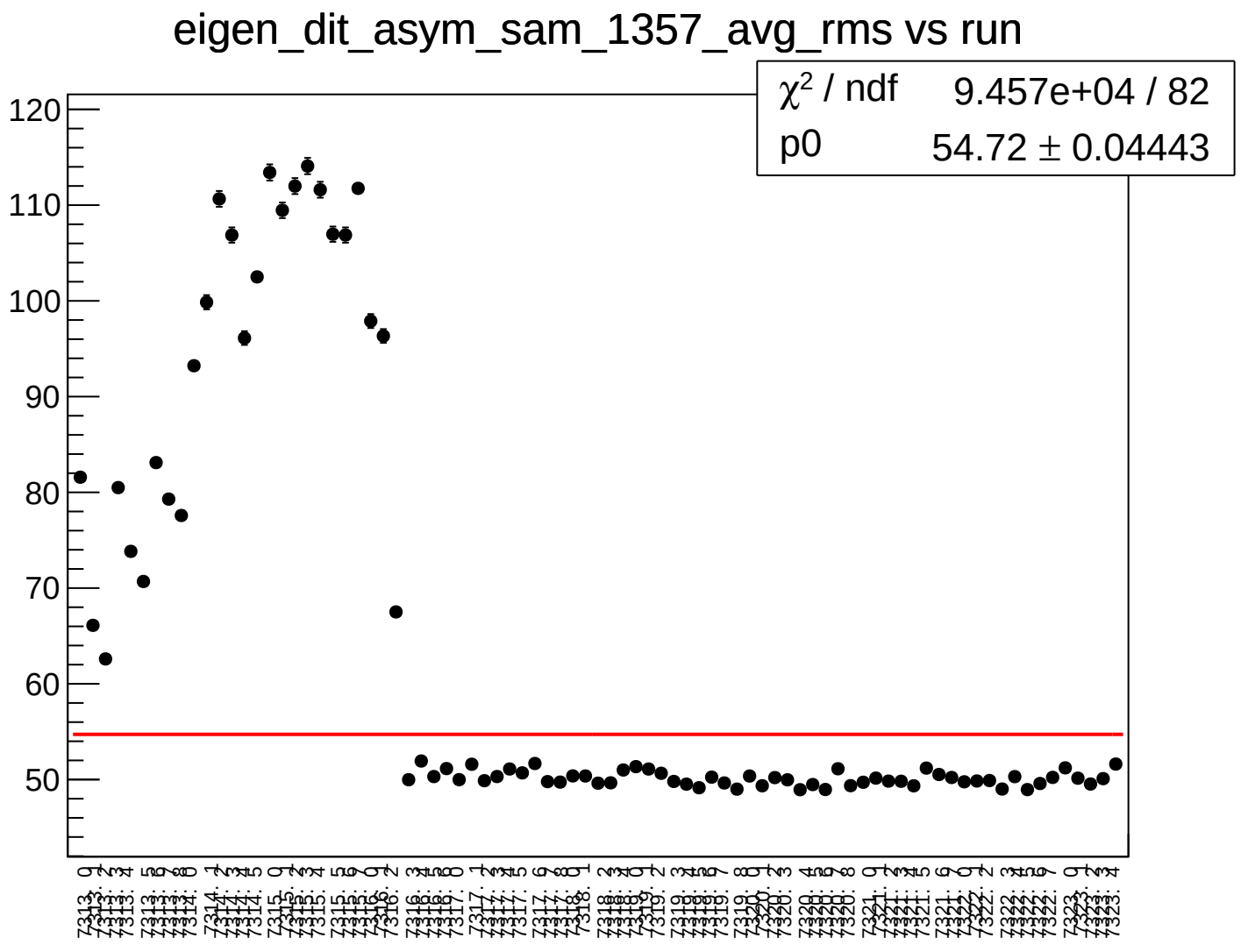

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 62.57 / 82
p0 7.53 ± 383.5
pull
Entries 83
Mean 32.04
Std Dev 50.09

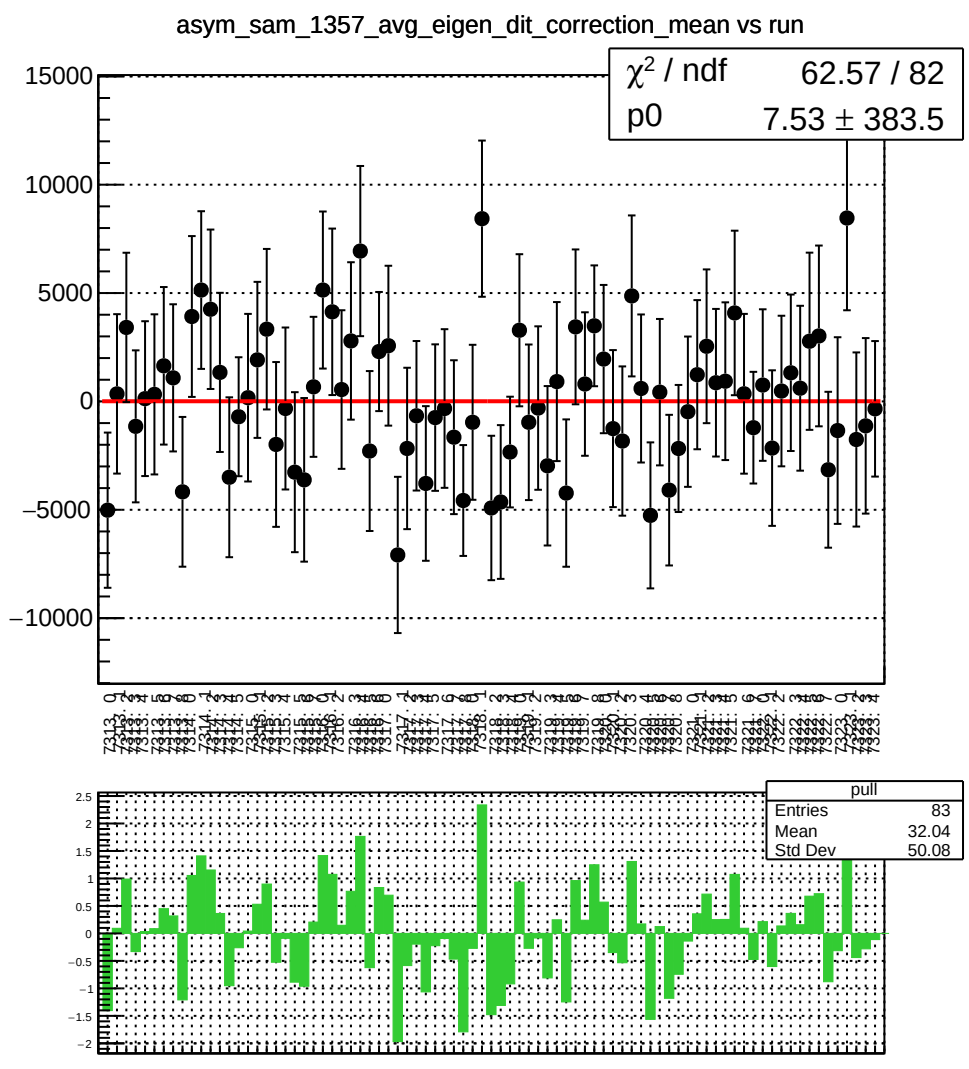

pull1D
Entries 83
Mean 0.02238
Std Dev 0.8679

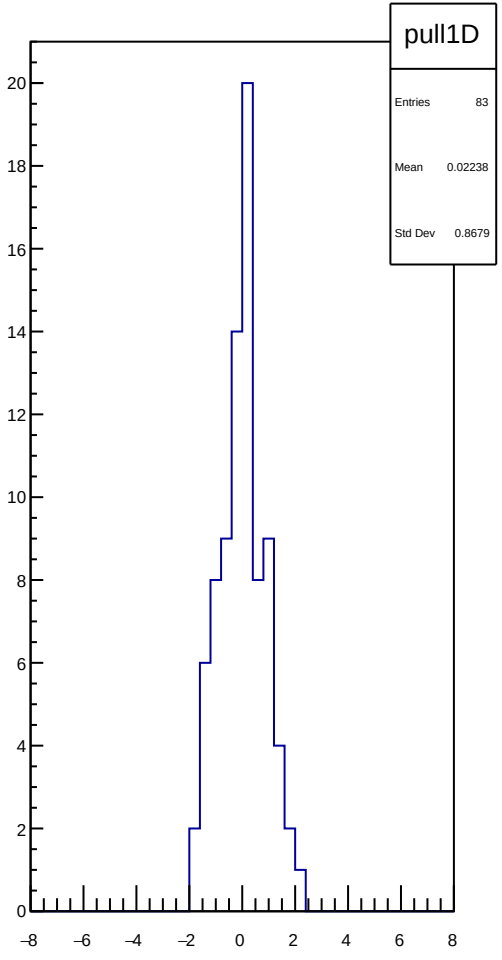

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 4460 / 82
p0 343.8 ± 0.2712
420
400
380
360
340
320

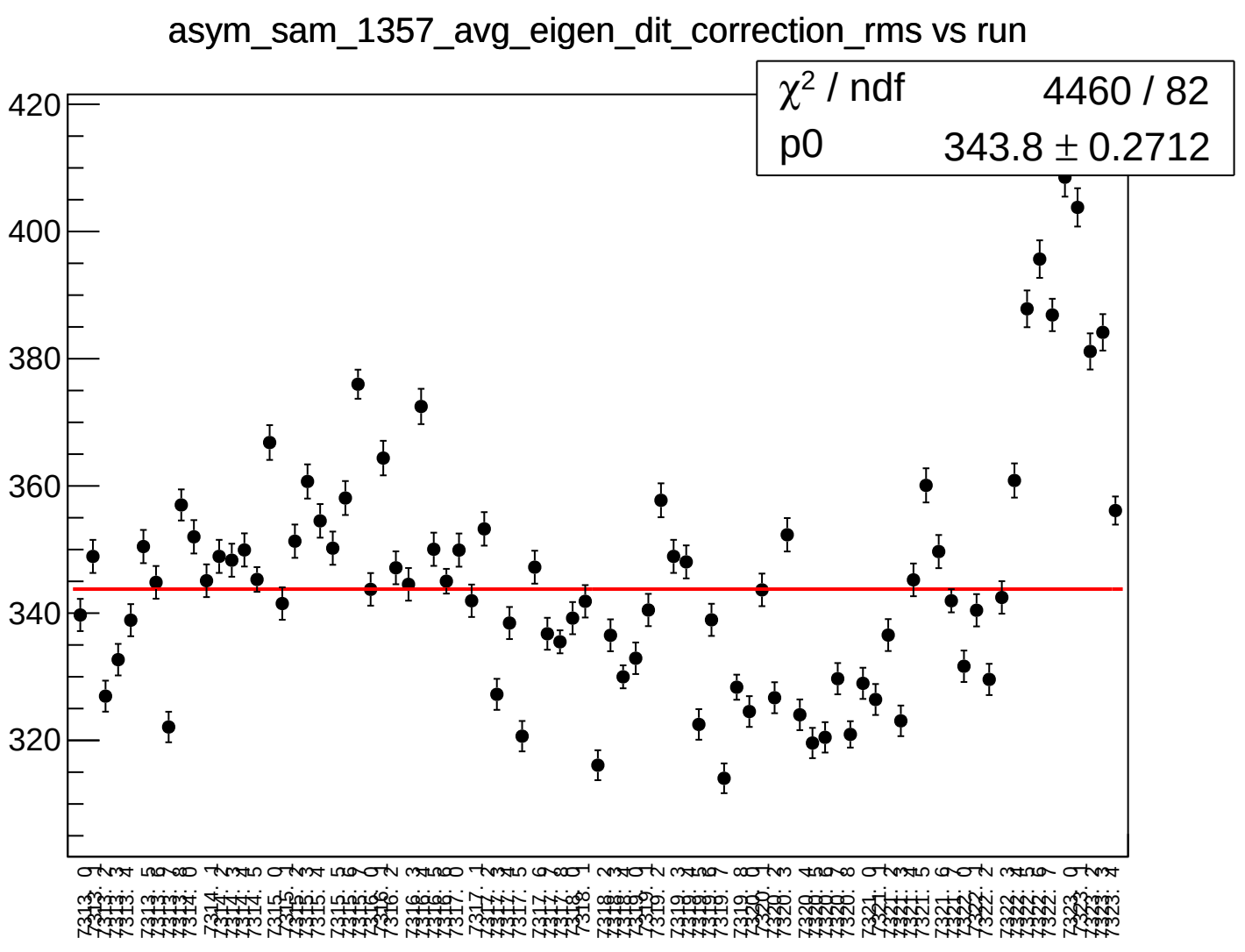

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 93.51 / 82
p0 50.01 ± 62.83
pull
Entries 83
Mean −15.78
Std Dev 0

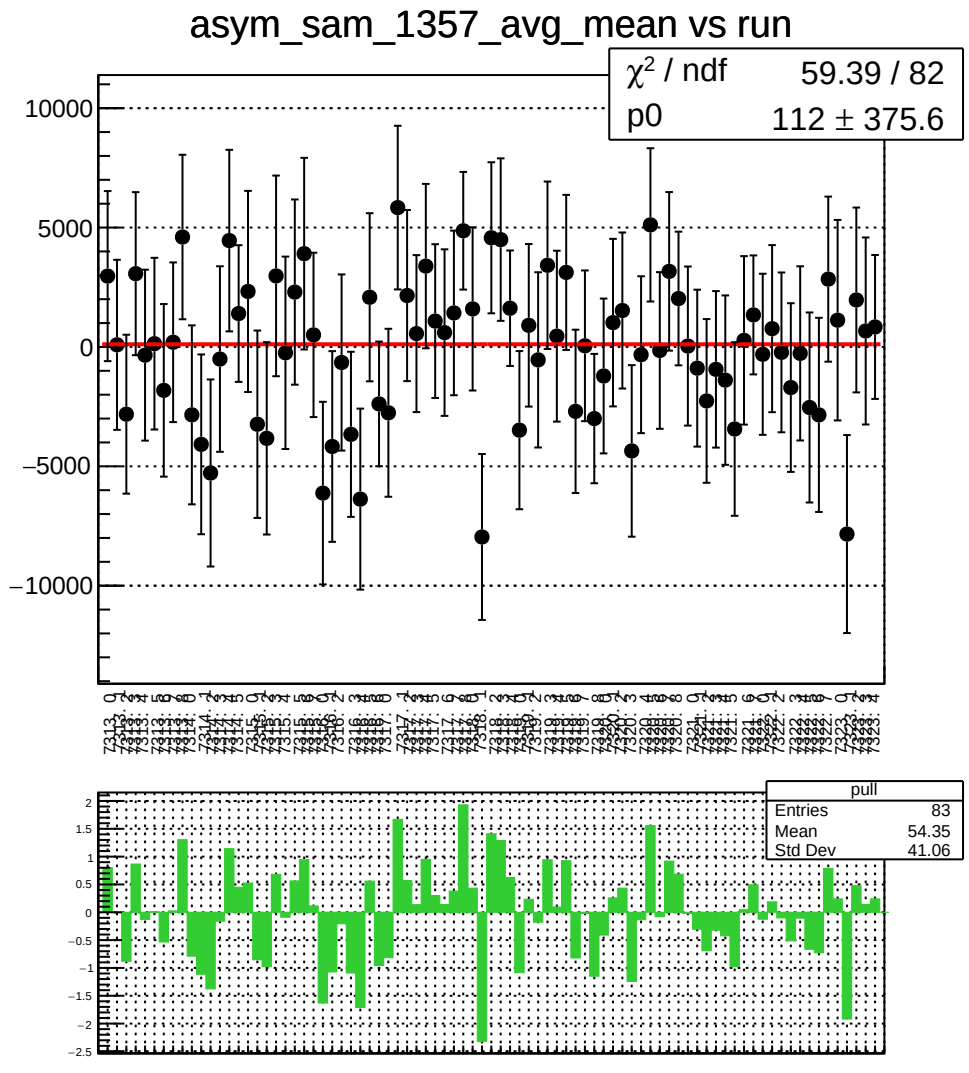

pull1D
Entries 83
Mean 0.02949
Std Dev 1.061

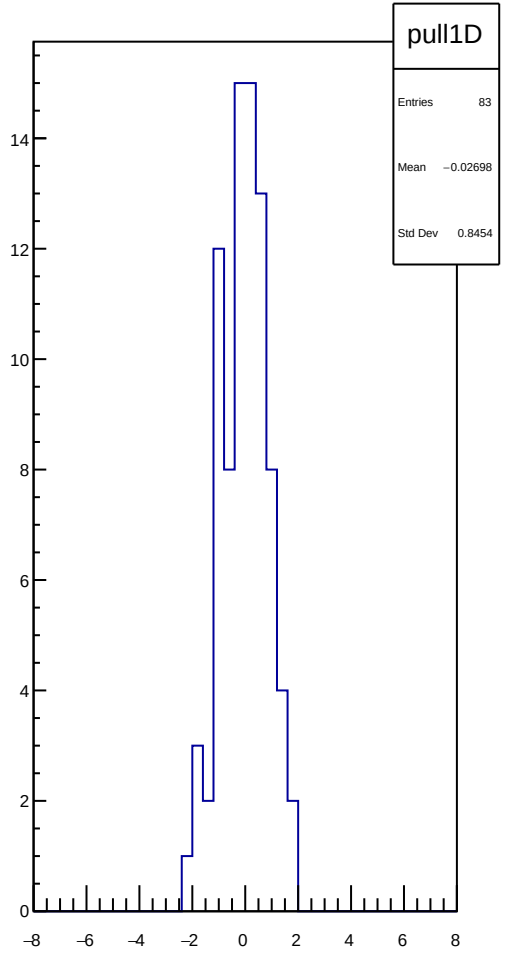

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 9.457e+04 / 82
p0 54.72 ± 0.04443
120
110
100
90
80
70
60
50

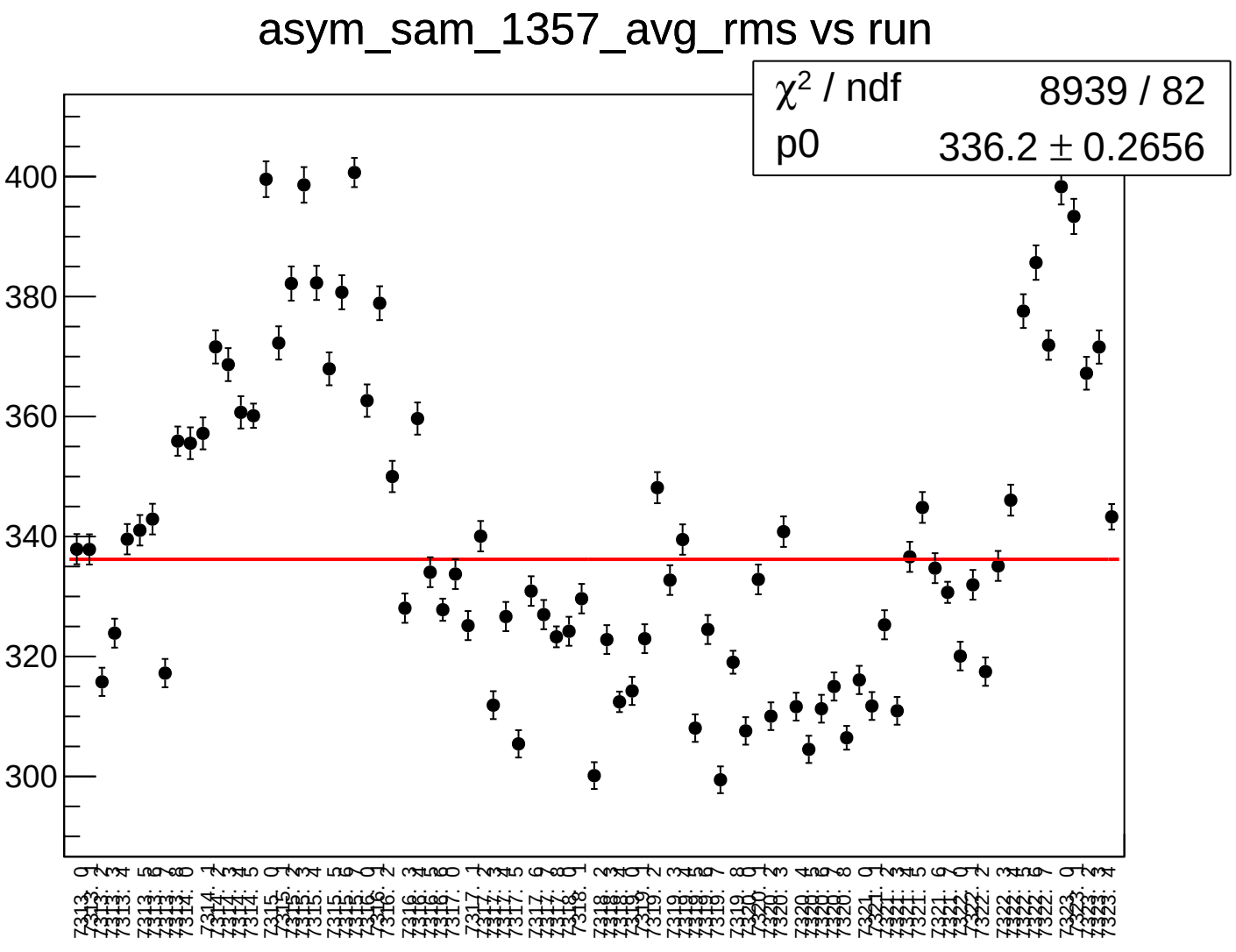

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.57 / 82
p0 7.53 ± 383.5
pull
Entries 83
Mean 32.04
Std Dev 50.08

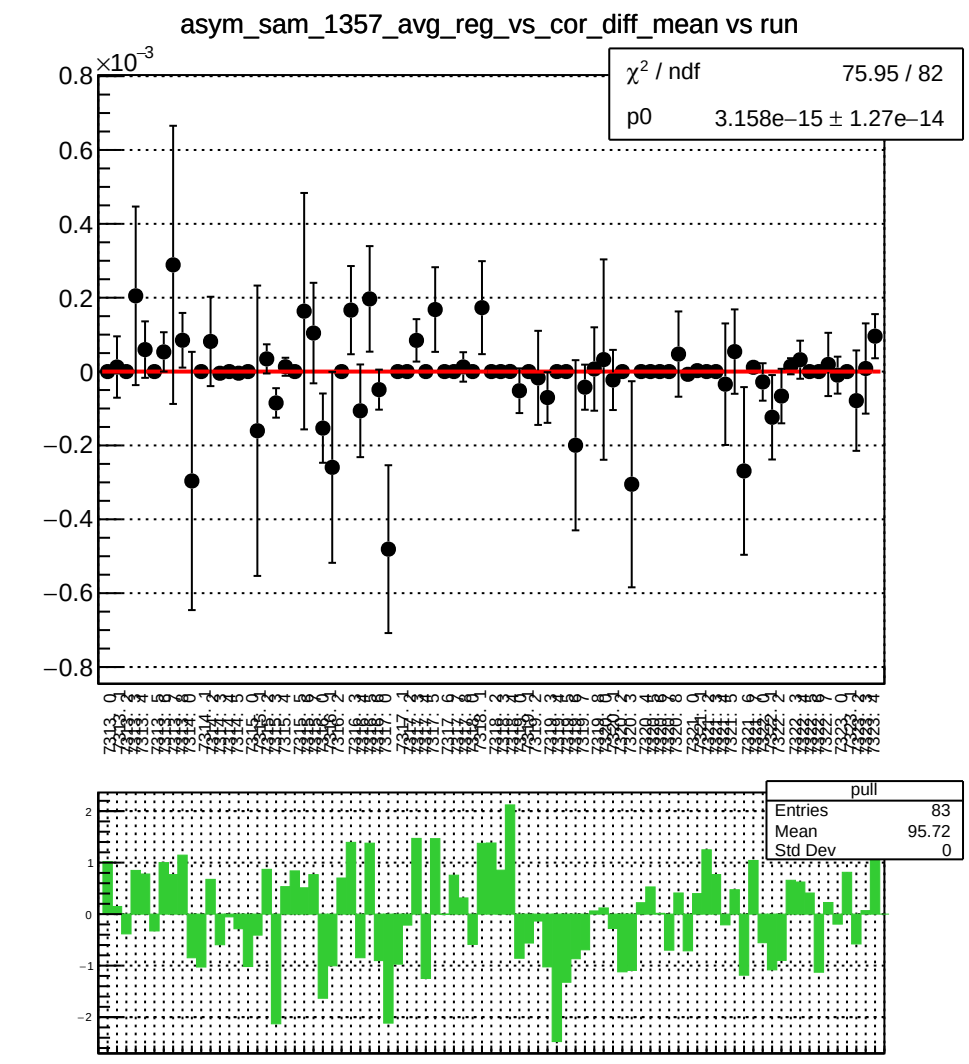

pull1D
Entries 83
Mean 0.02238
Std Dev 0.8679

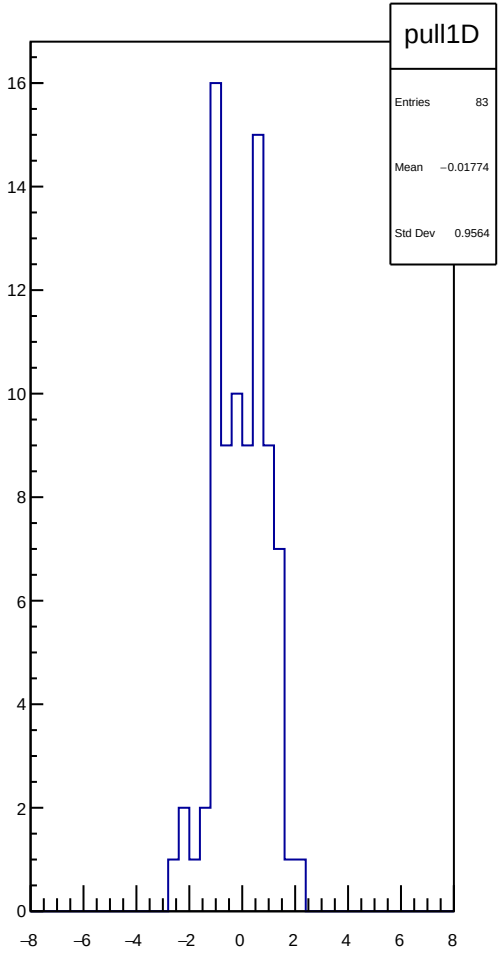

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 4460 / 82
p0 343.8 ± 0.2712
420
400
380
360
340
320

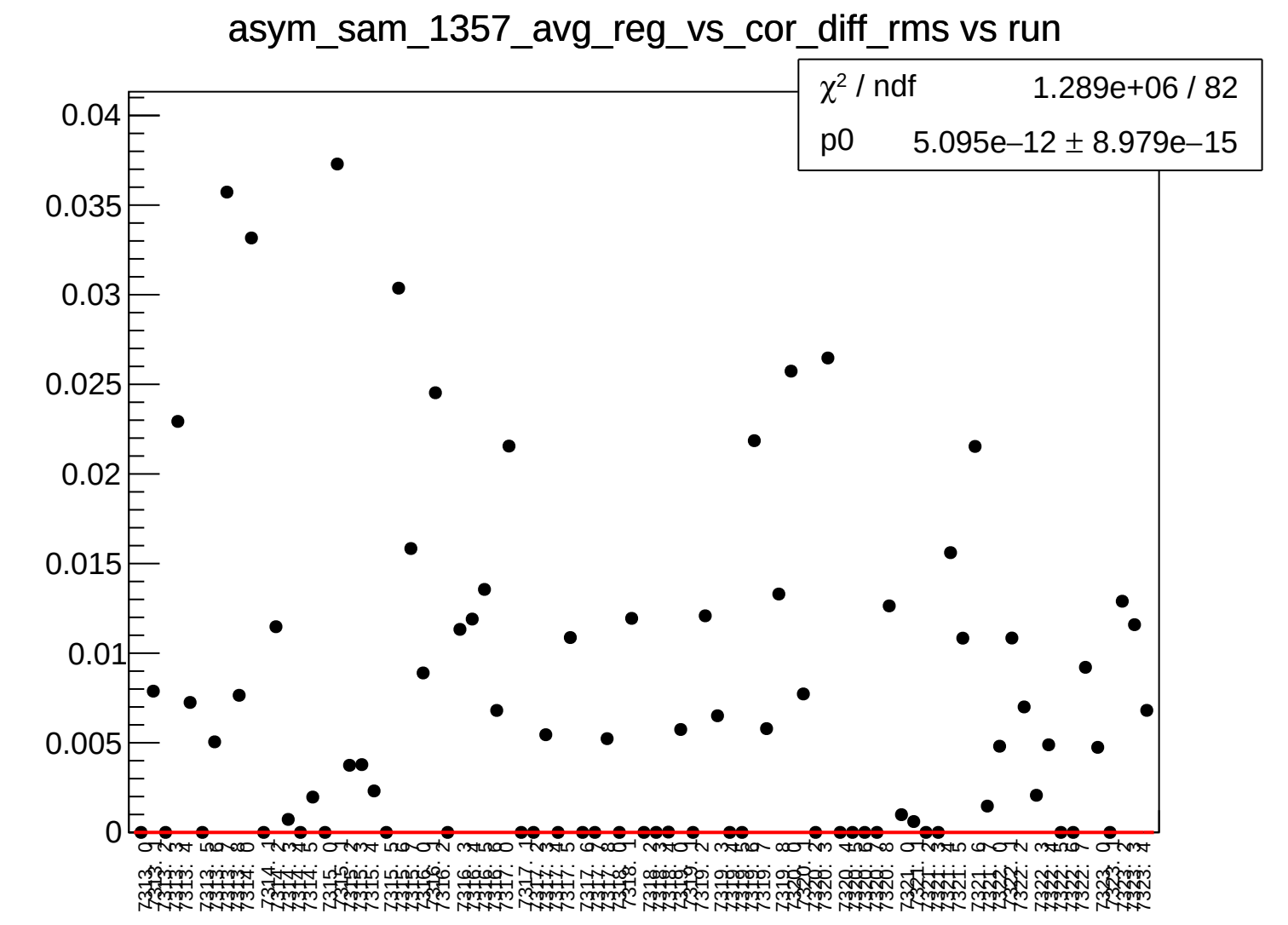

asym_sam_1357_avg_mean vs run
χ² / ndf 59.39 / 82
p0 112 ± 375.6
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 54.35
Std Dev 41.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

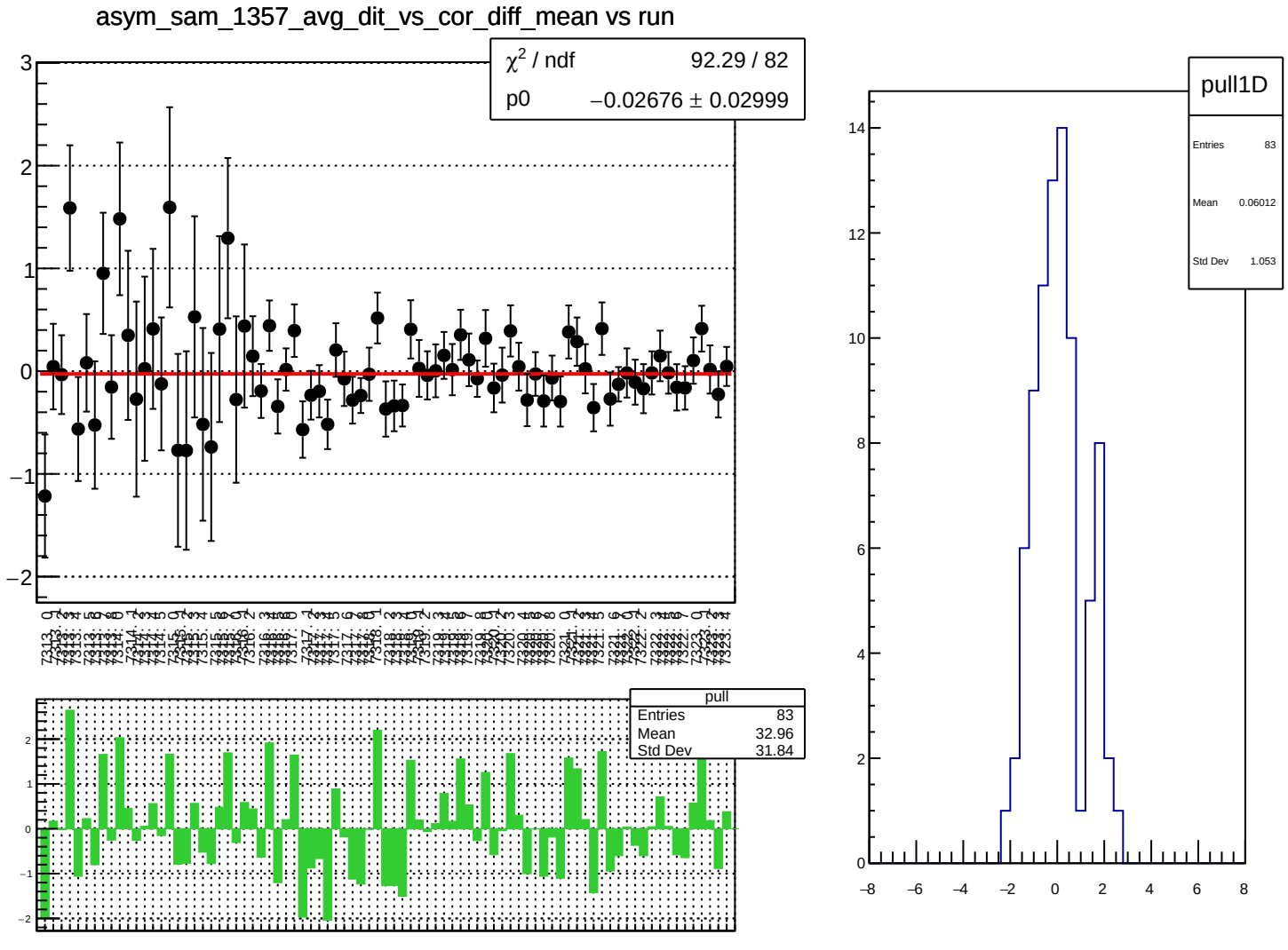

pull1D
Entries 83
Mean −0.02698
Std Dev 0.8454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

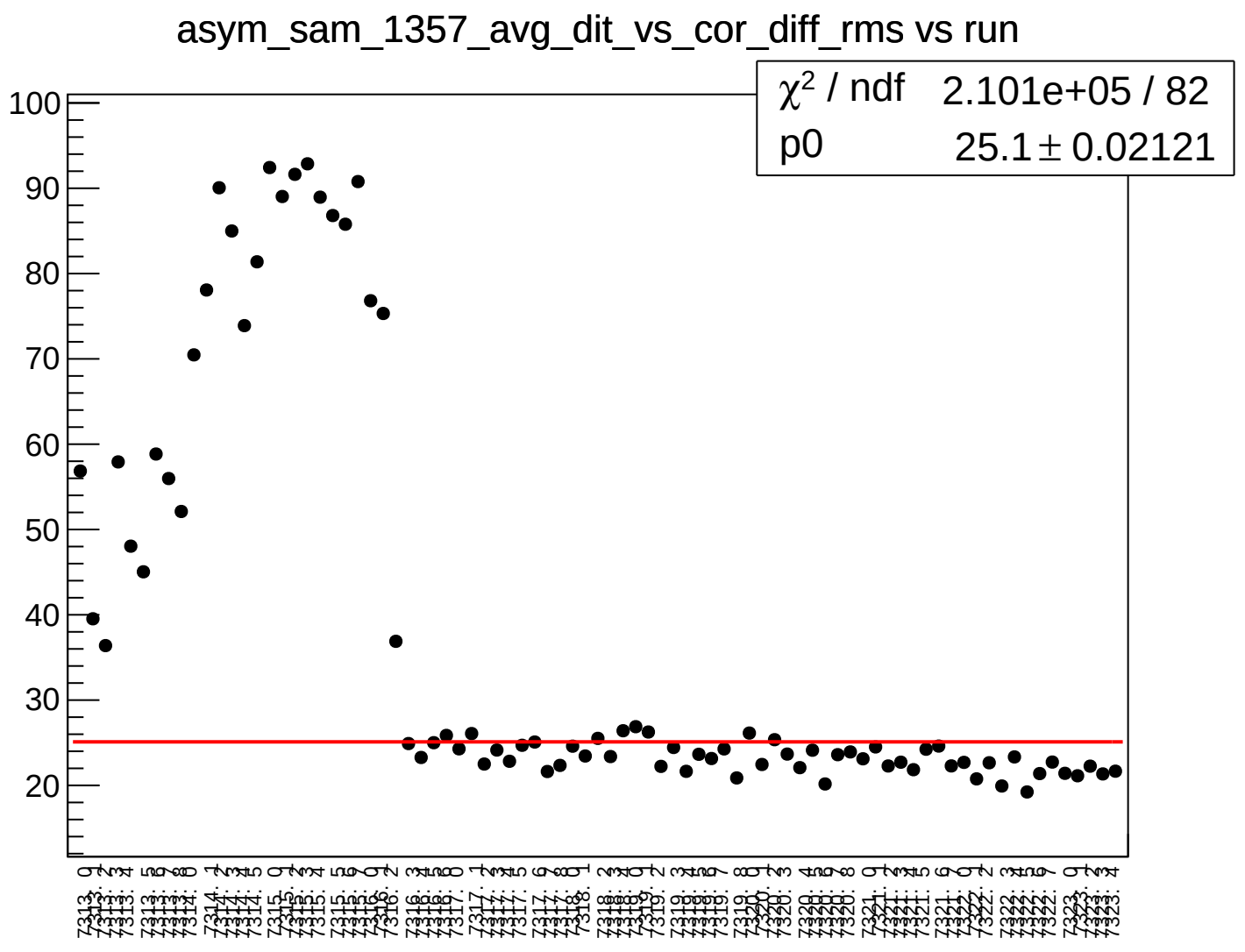

asym_sam_1357_avg_rms vs run
χ² / ndf 8939 / 82
p0 336.2 ± 0.2656
400
380
360
340
320
300

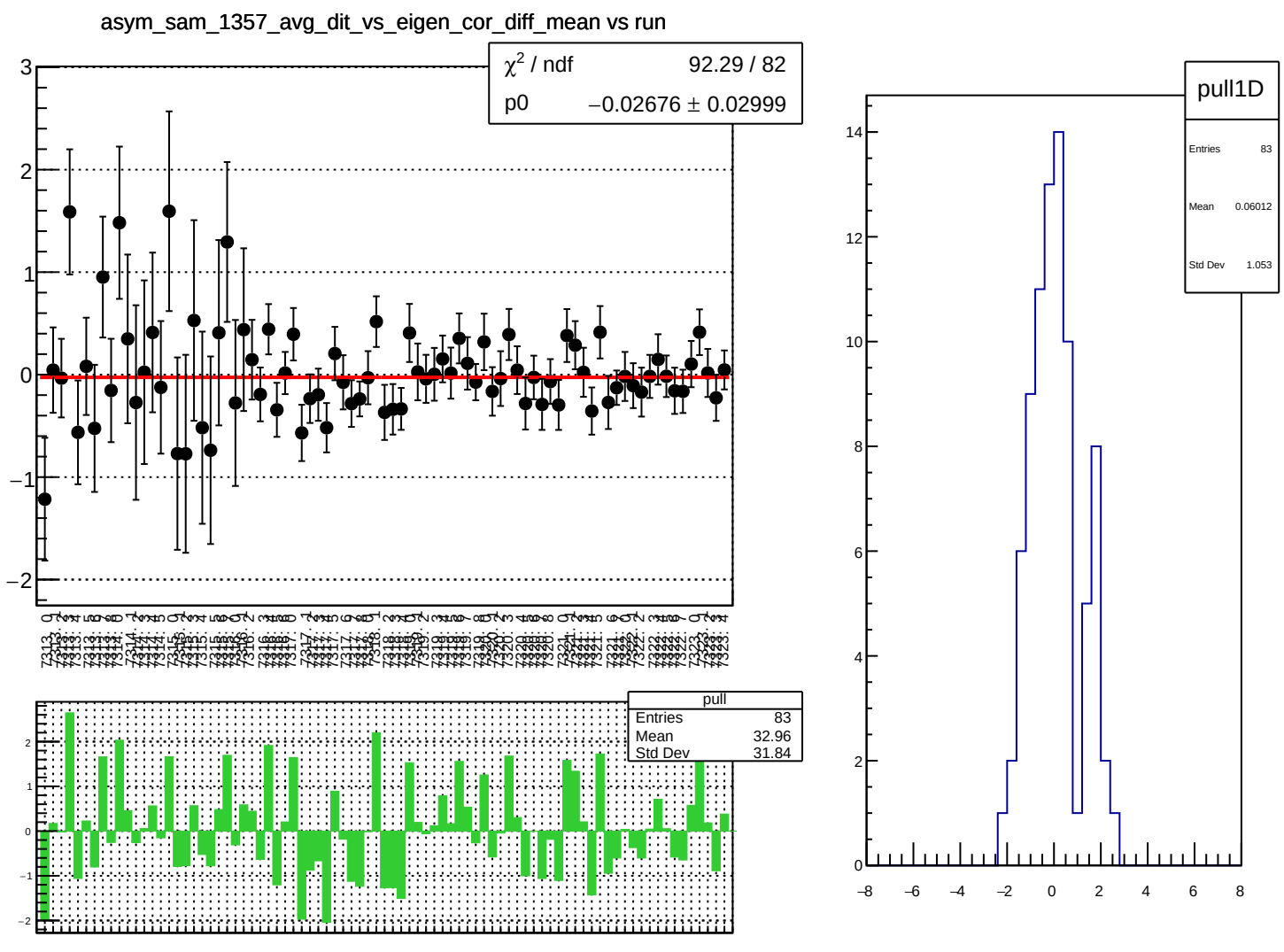

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.95 / 82
p0 3.158e−15 ± 1.27e−14
×10⁻³
pull
Entries 83
Mean 95.72
Std Dev 0

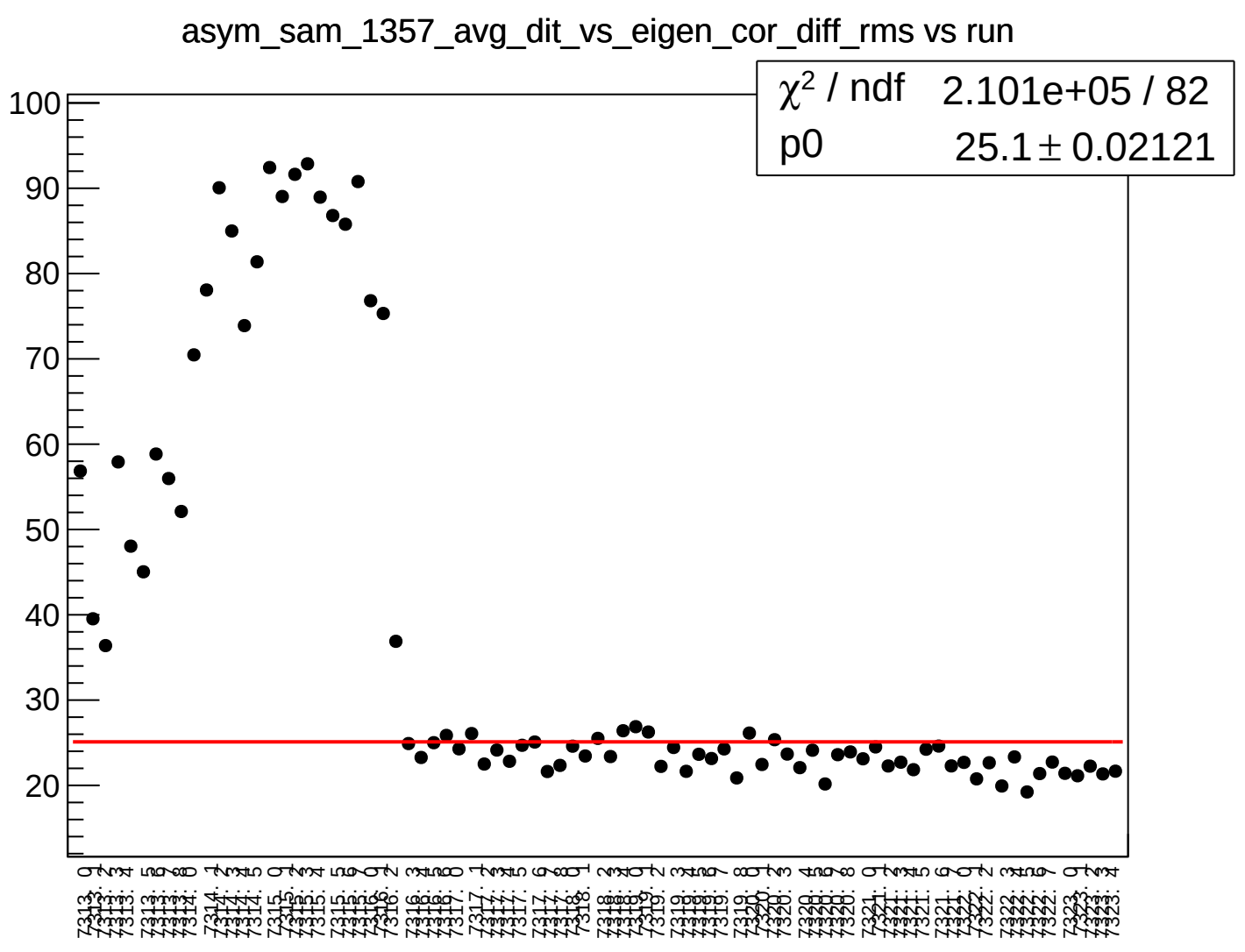

pull1D
Entries 83
Mean −0.01774
Std Dev 0.9564

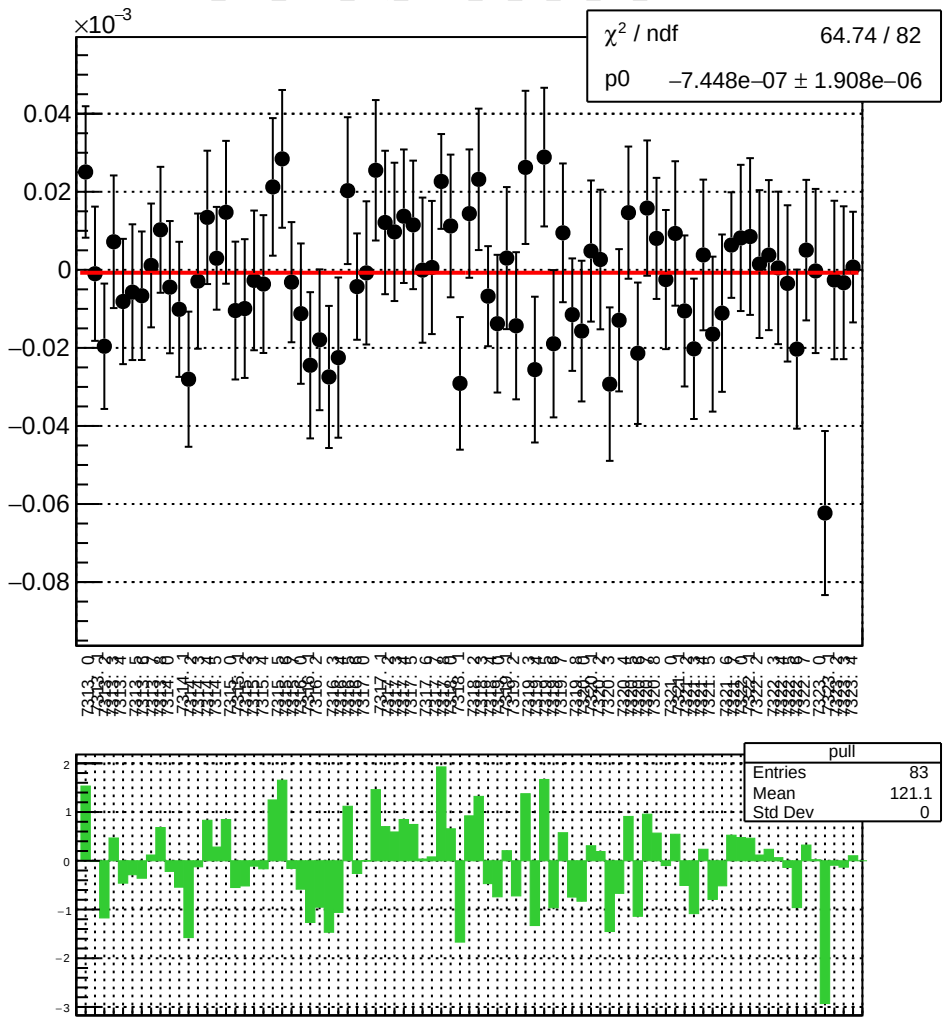

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.289e+06 / 82
p0 5.095e−12 ± 8.979e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

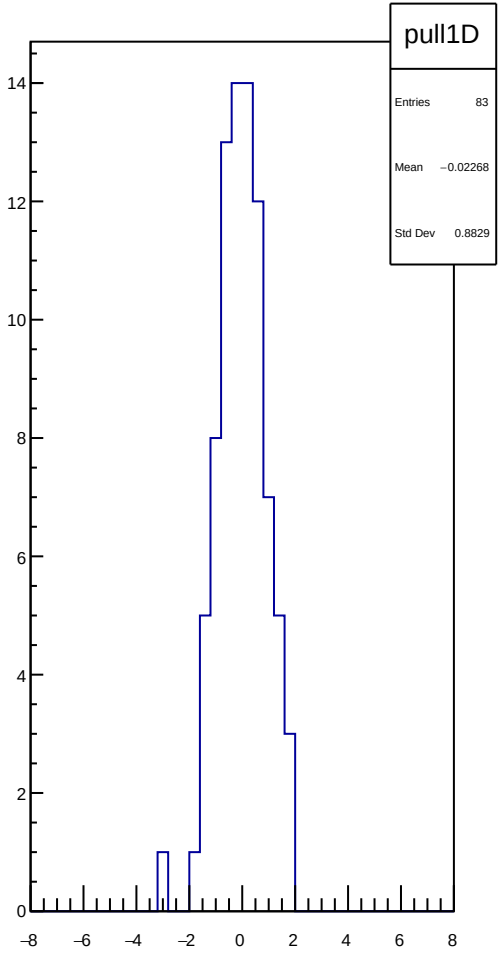

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.29 / 82
p0 −0.02676 ± 0.02999
pull
Entries 83
Mean 32.96
Std Dev 31.84
pull1D
Entries 83
Mean 0.06012
Std Dev 1.053

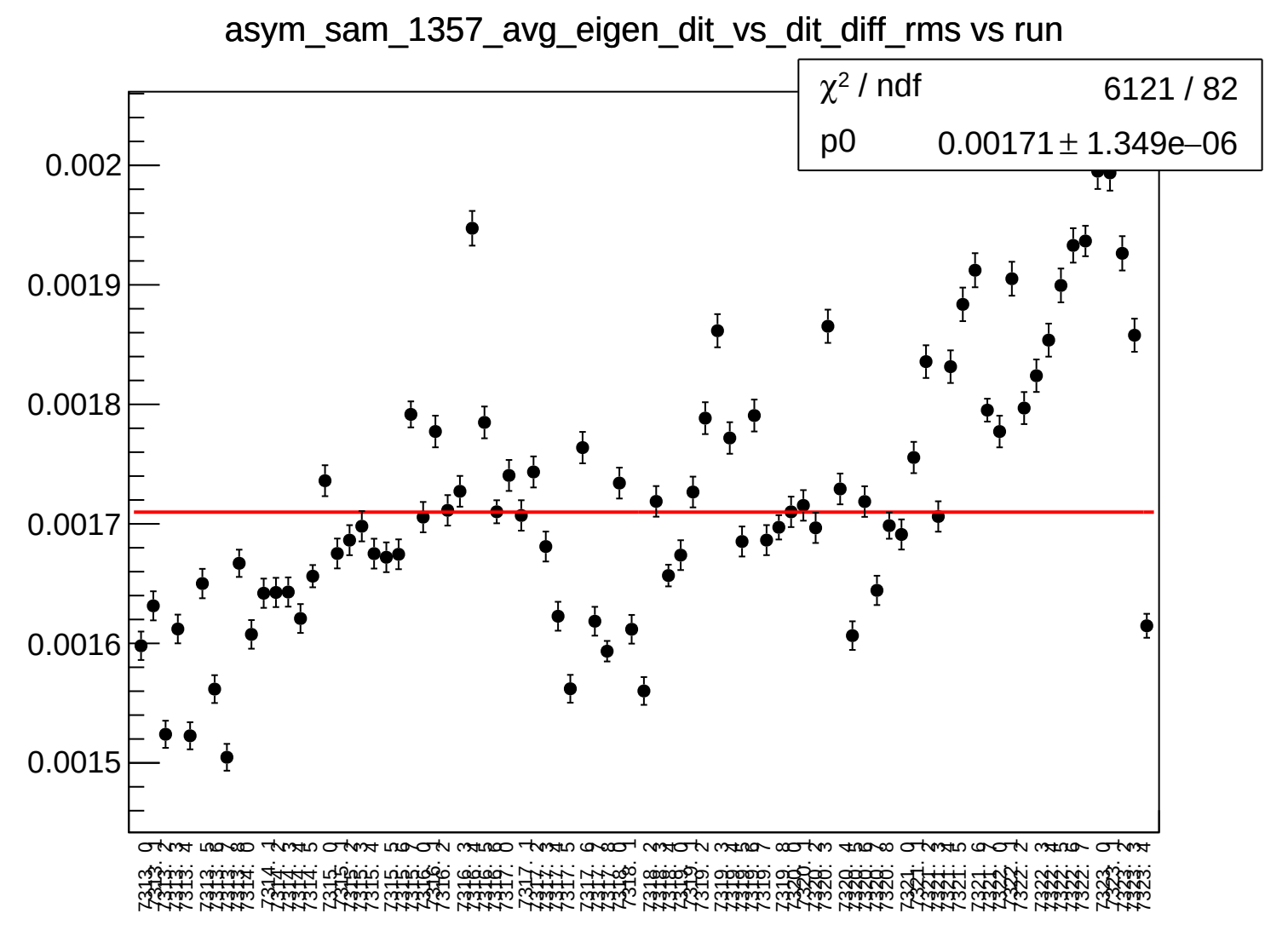

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 82
p0 25.1 ± 0.02121
100
90
80
70
60
50
40
30
20

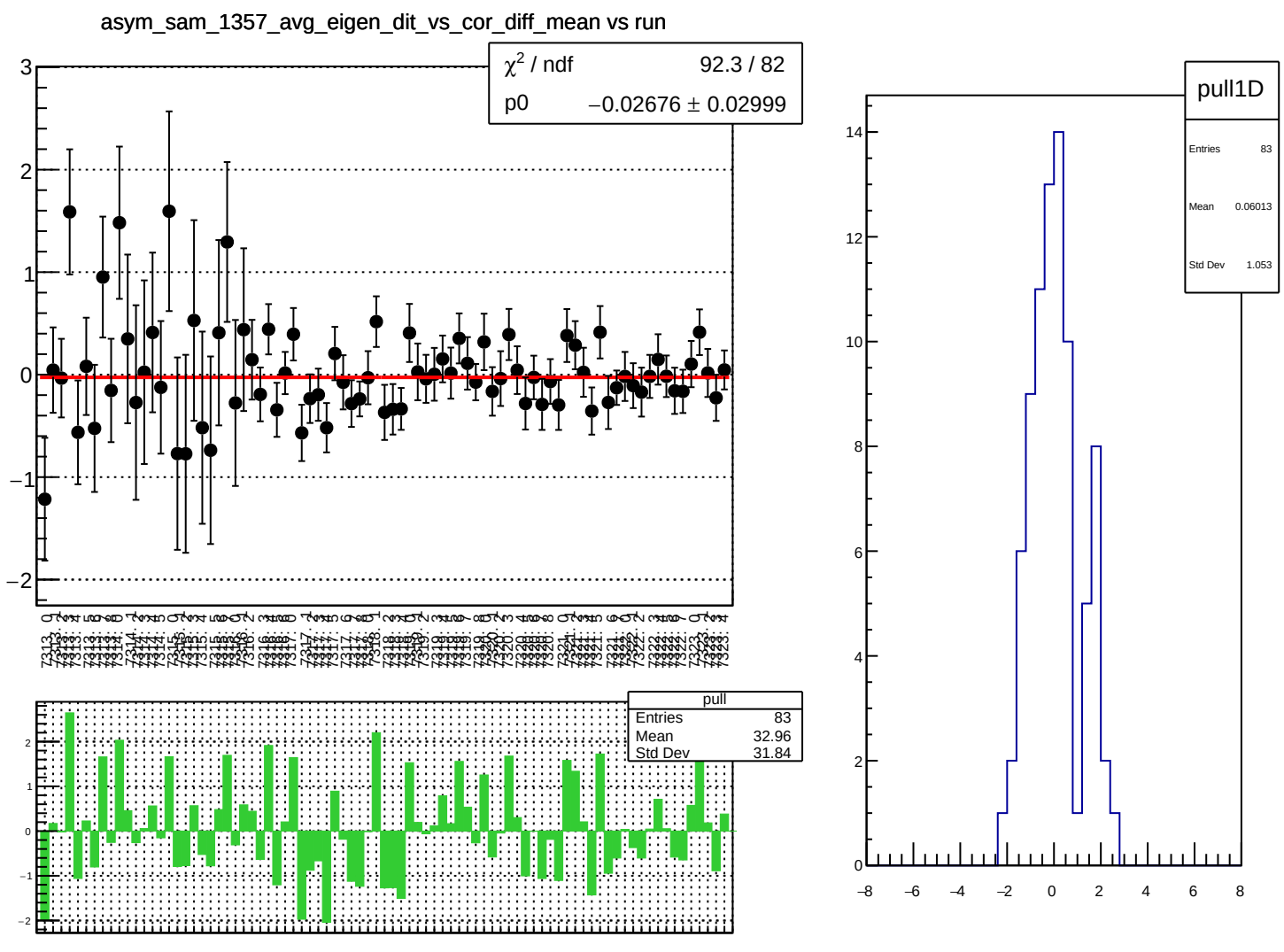

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.29 / 82
p0 −0.02676 ± 0.02999
pull
Entries 83
Mean 32.96
Std Dev 31.84
pull1D
Entries 83
Mean 0.06012
Std Dev 1.053

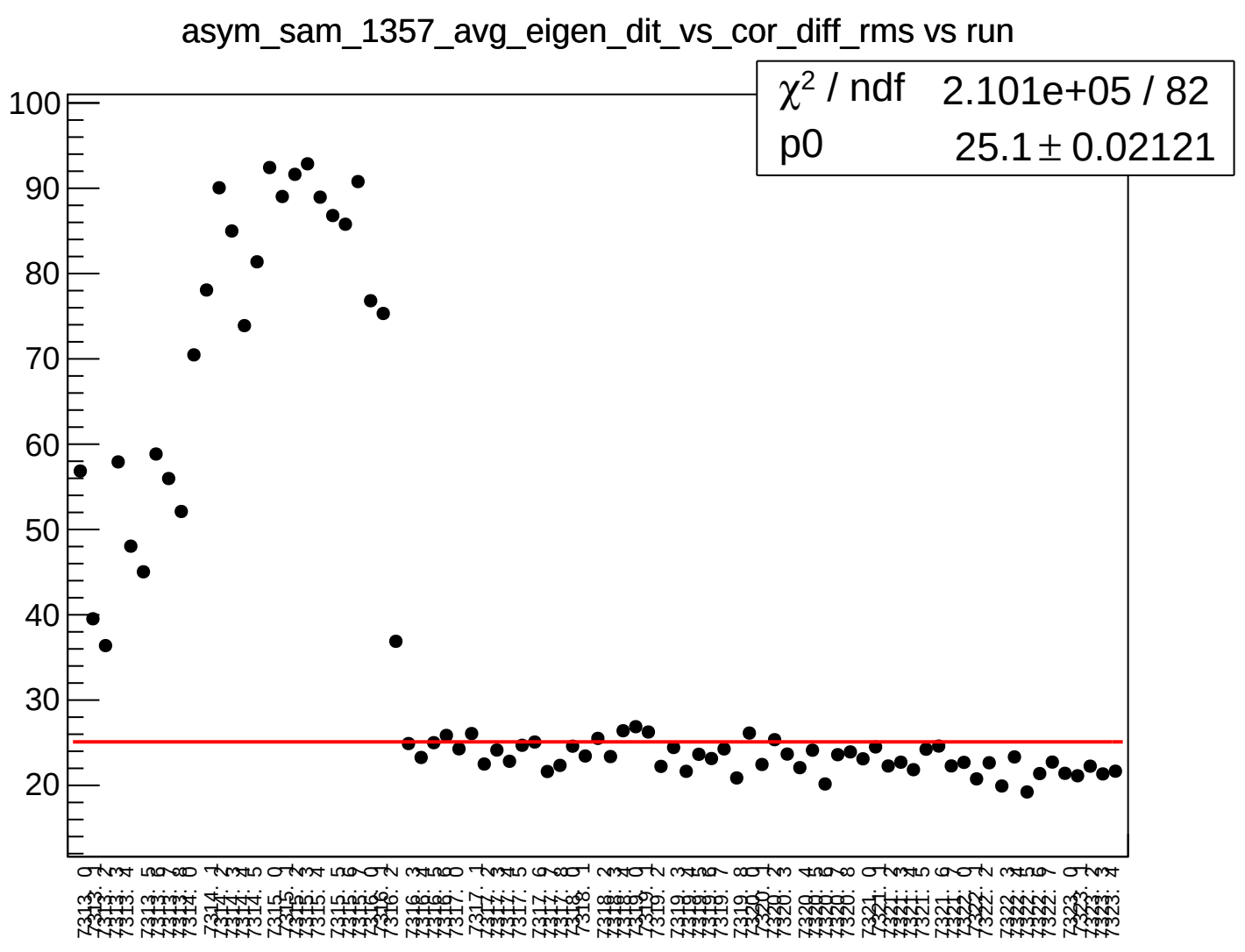

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 82
p0 25.1 ± 0.02121
100
90
80
70
60
50
40
30
20

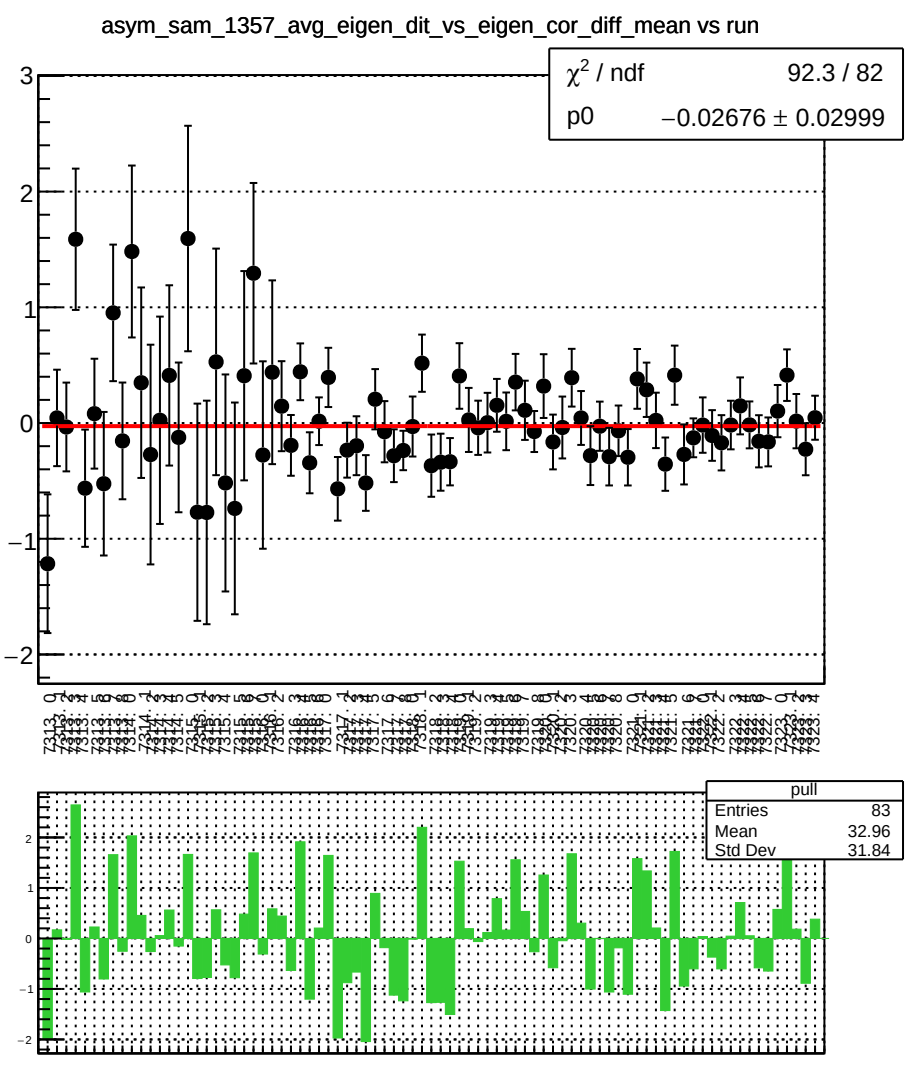

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.74 / 82
p0 −7.448e−07 ± 1.908e−06
pull
Entries 83
Mean 121.1
Std Dev 0

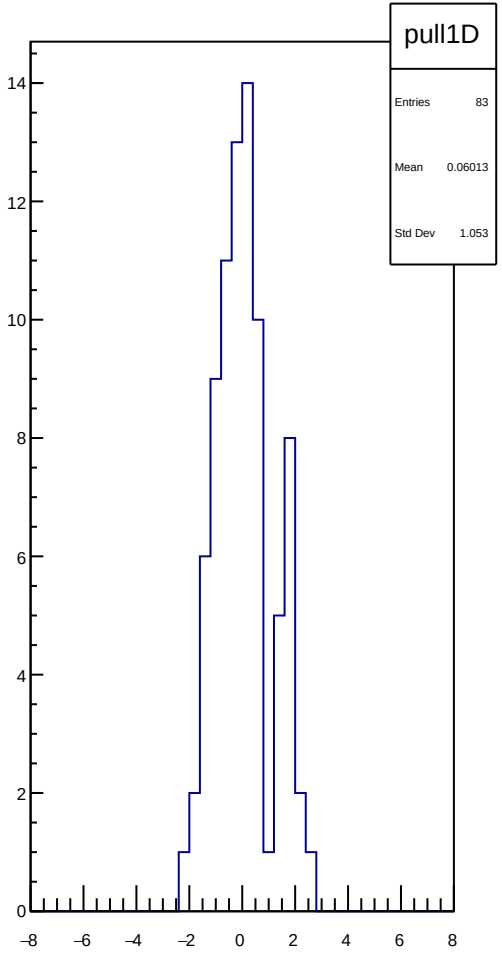

pull1D
Entries 83
Mean −0.02268
Std Dev 0.8829

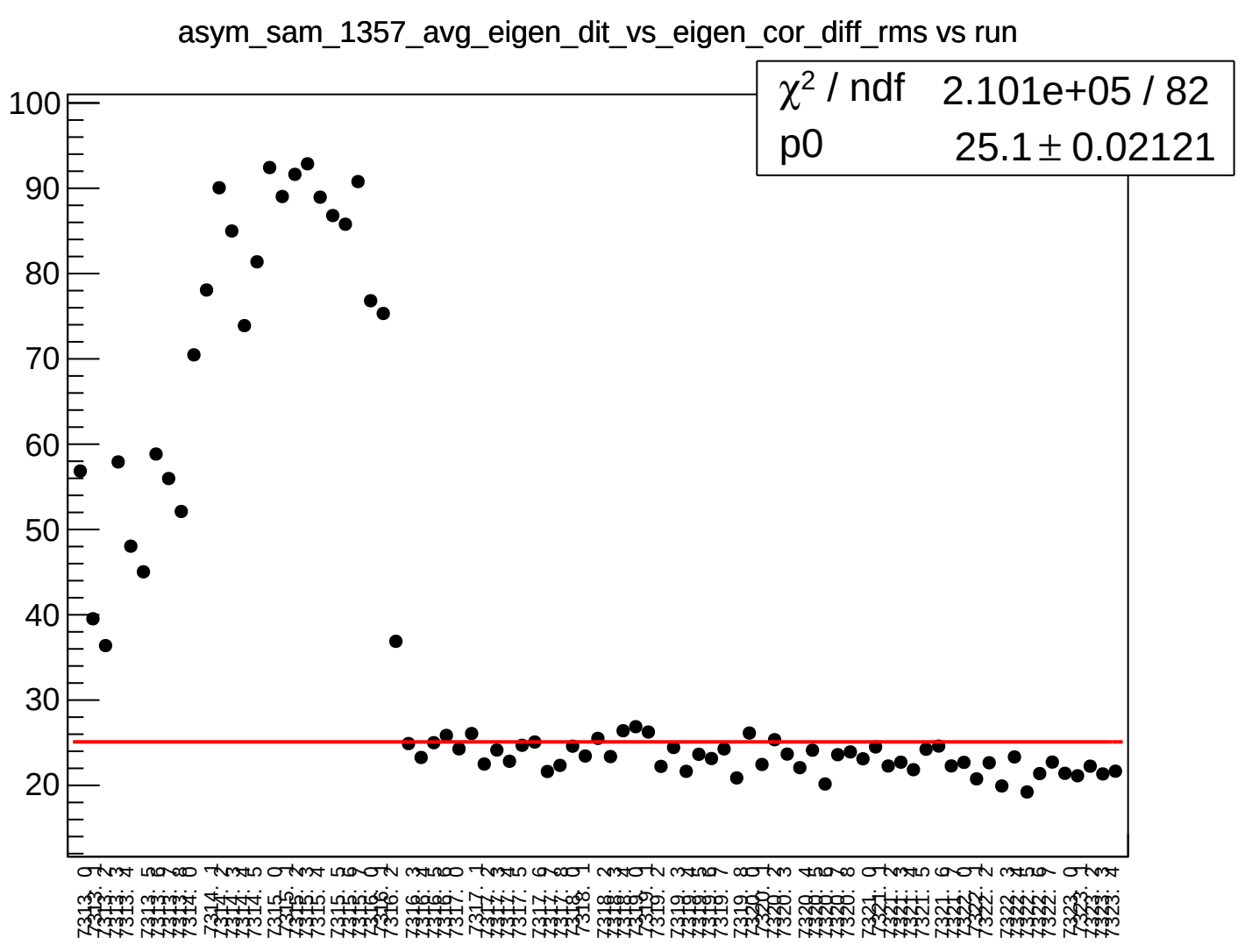

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6121 / 82
p0 0.00171 ± 1.349e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

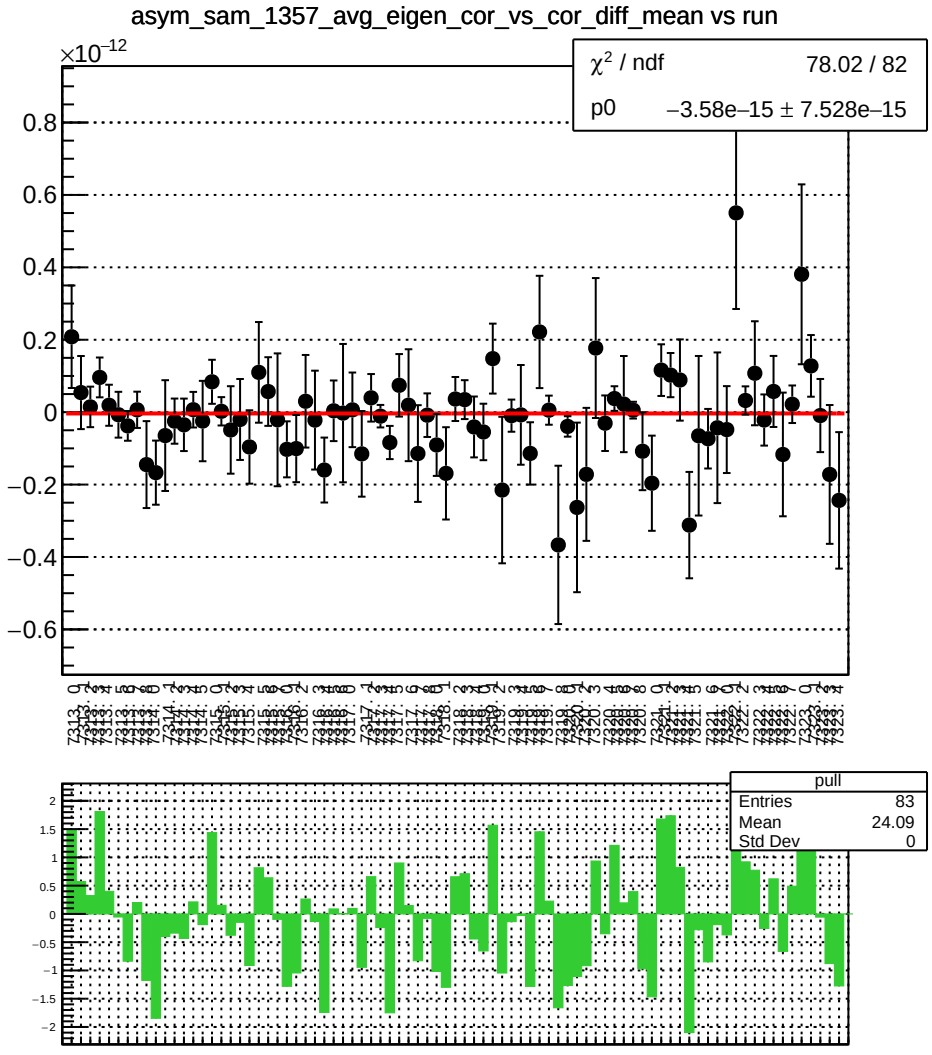

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.3 / 82
p0 −0.02676 ± 0.02999
pull
Entries 83
Mean 32.96
Std Dev 31.84
pull1D
Entries 83
Mean 0.06013
Std Dev 1.053

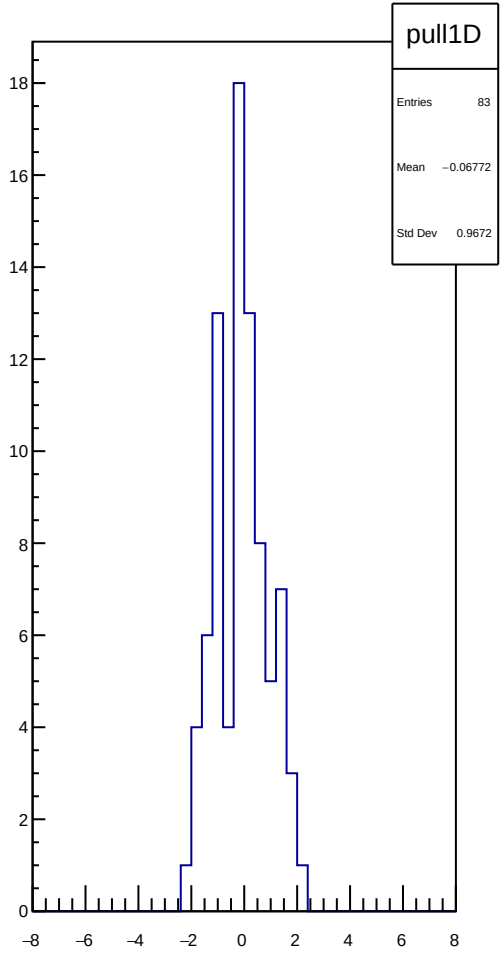

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 82
p0 25.1 ± 0.02121
100
90
80
70
60
50
40
30
20

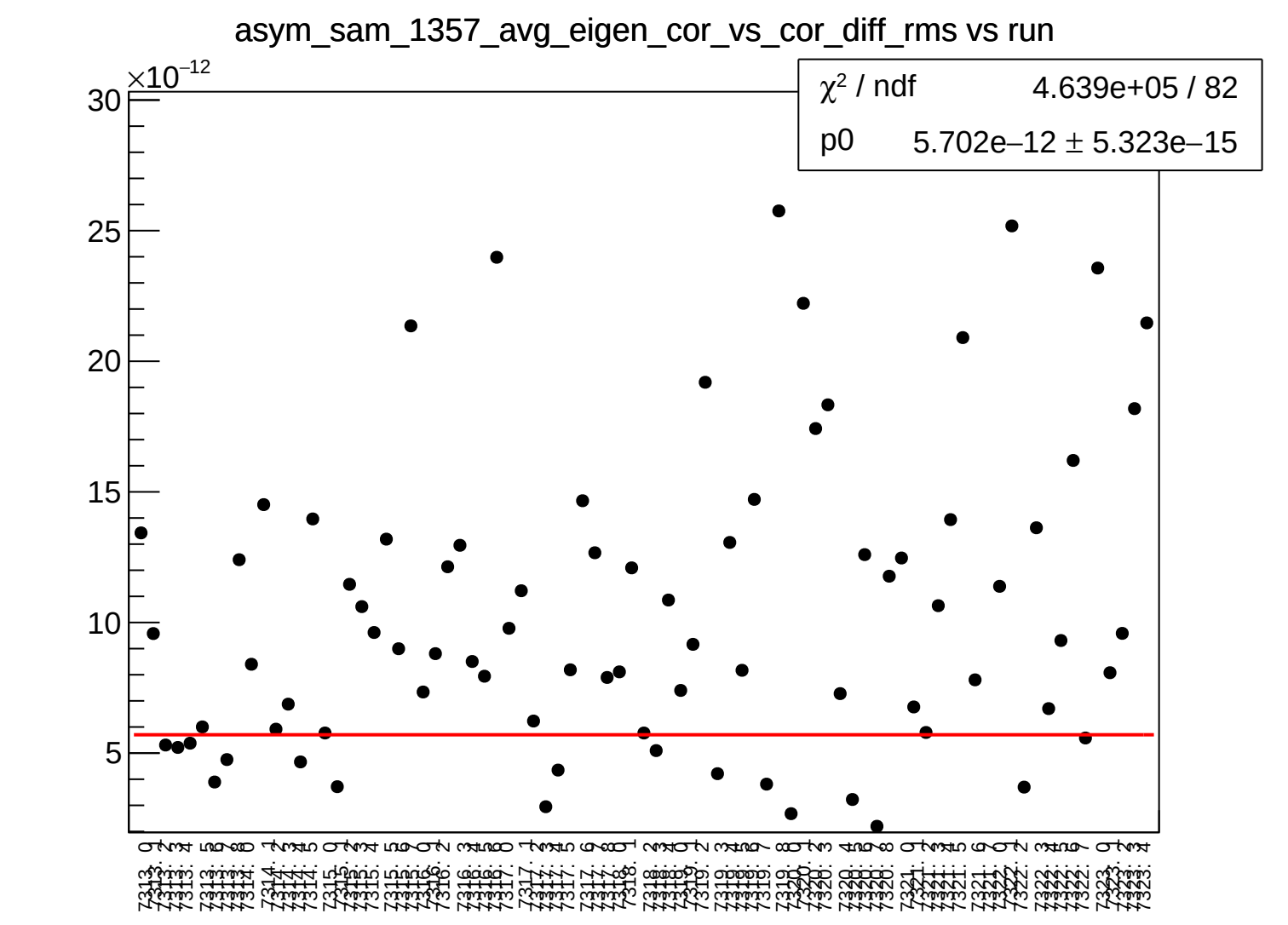

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.3 / 82
p0 −0.02676 ± 0.02999
pull
Entries 83
Mean 32.96
Std Dev 31.84

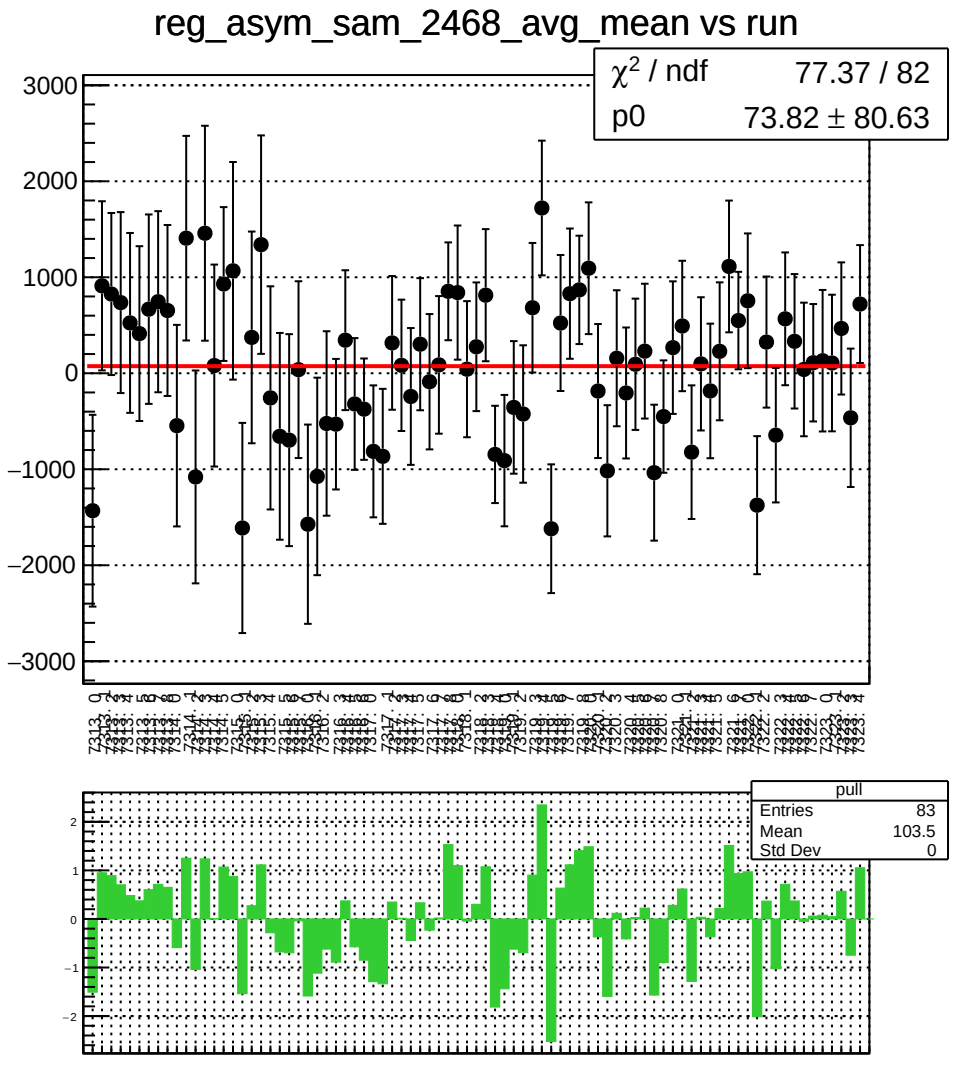

pull1D
Entries 83
Mean 0.06013
Std Dev 1.053

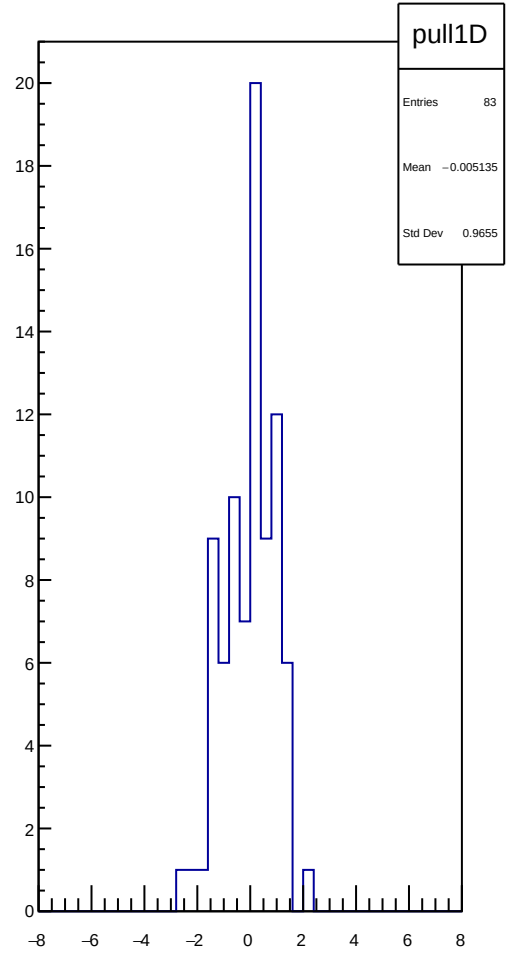

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 82
p0 25.1 ± 0.02121
100
90
80
70
60
50
40
30
20

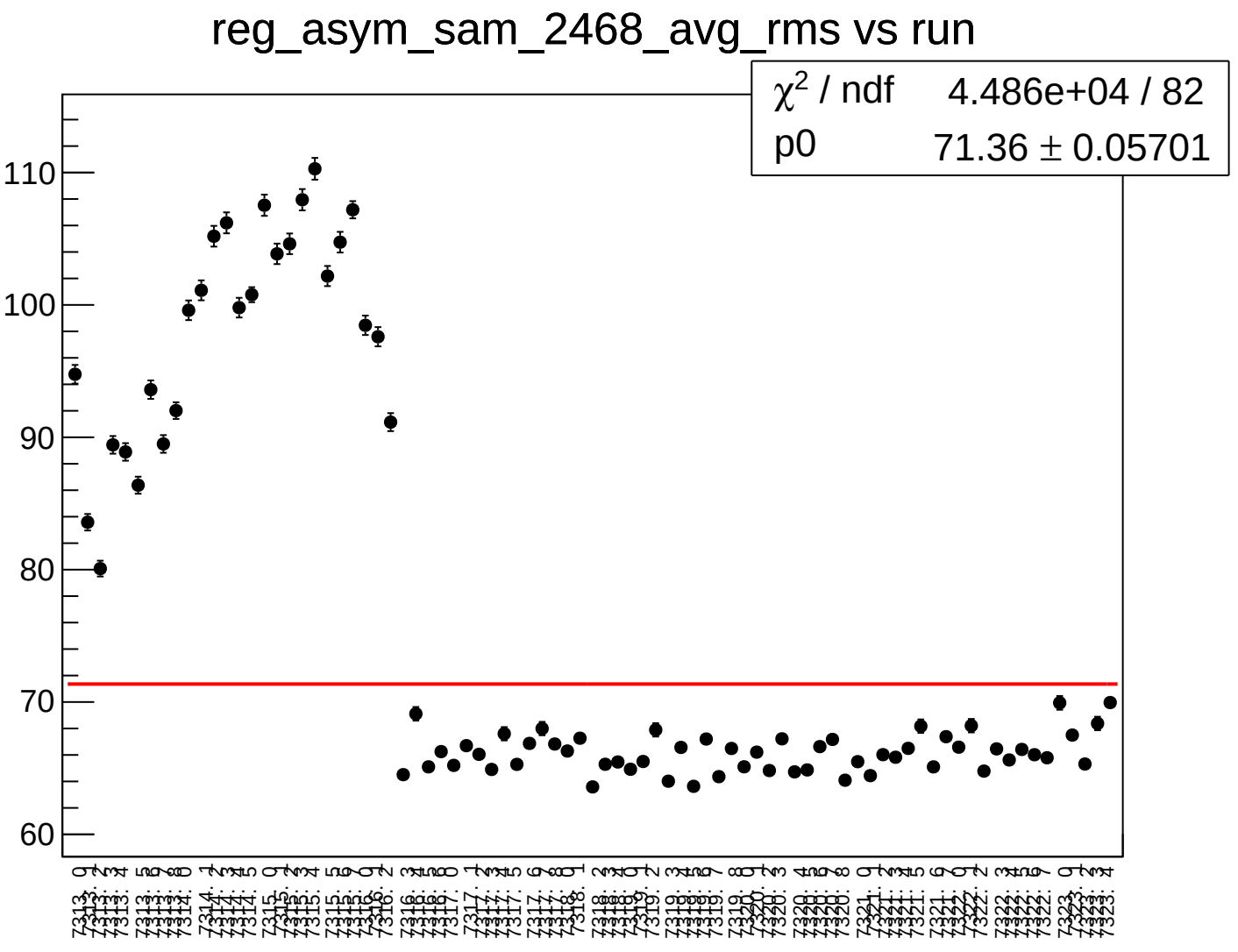

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.02 / 82
p0 −3.58e−15 ± 7.528e−15
pull
Entries 83
Mean 24.09
Std Dev 0

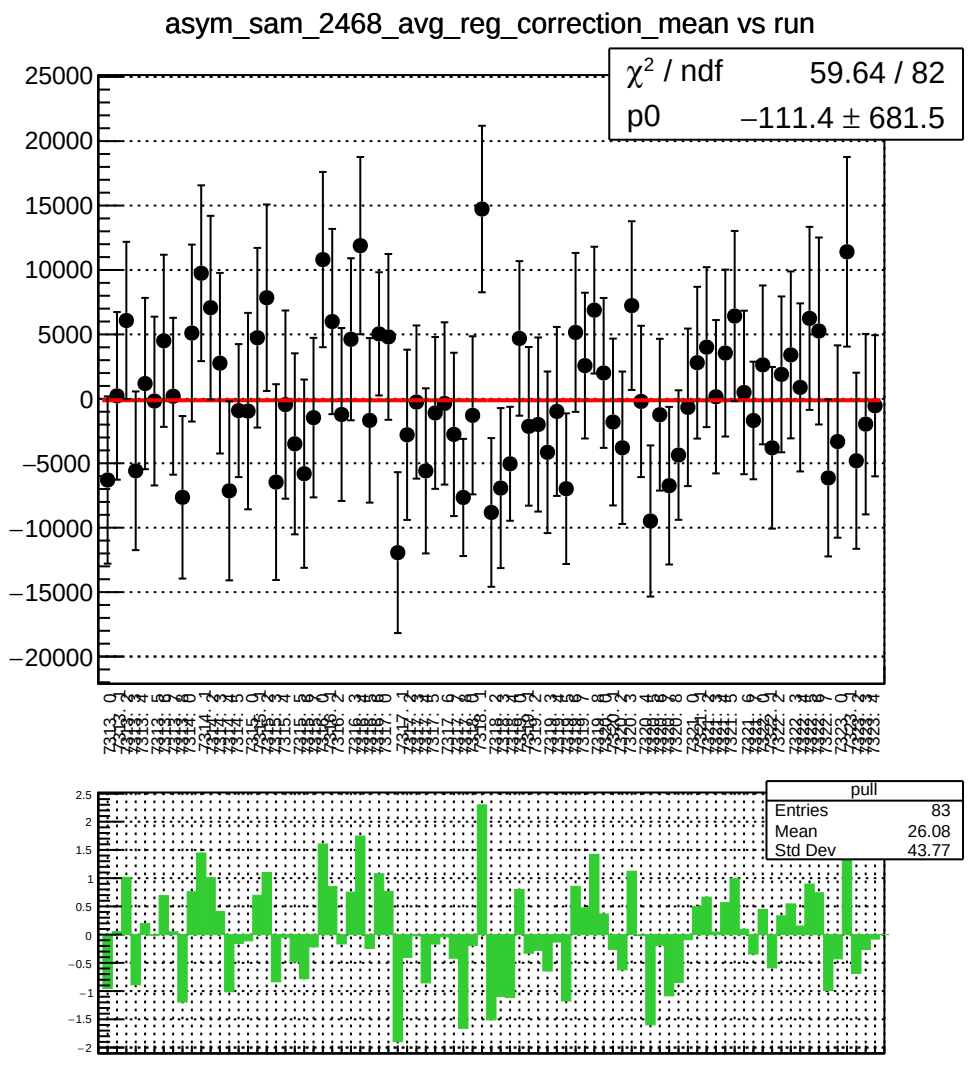

pull1D
Entries 83
Mean −0.06772
Std Dev 0.9672

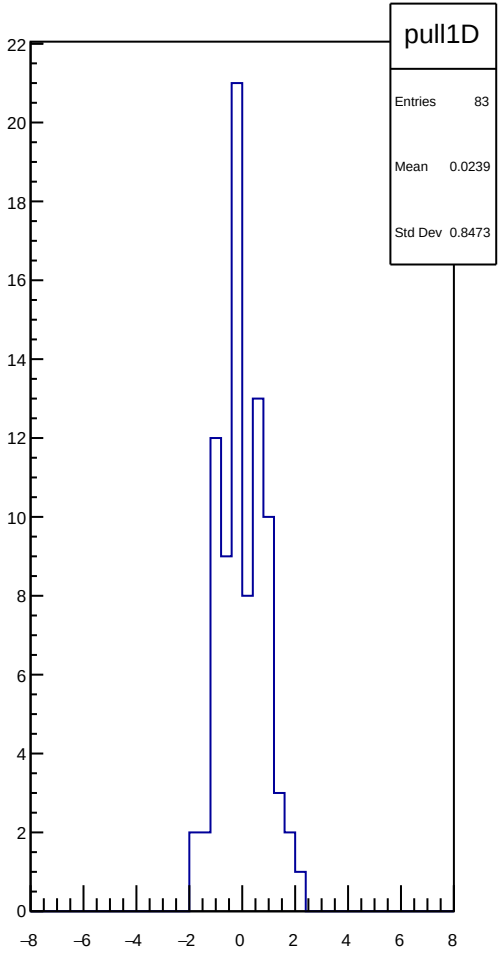

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.639e+05 / 82
p0 5.702e−12 ± 5.323e−15
30
25
20
15
10
5

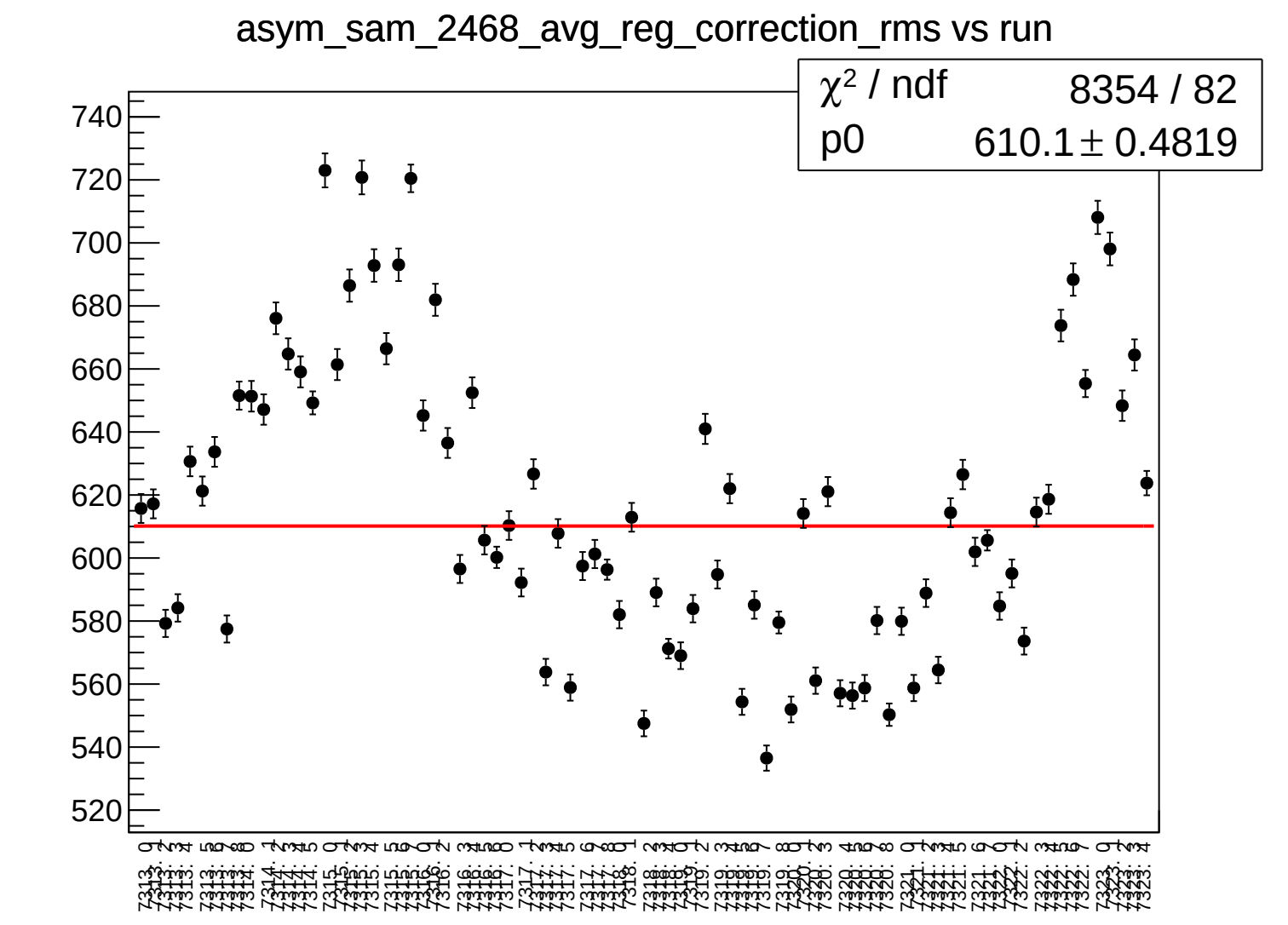

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 77.37 / 82
p0 73.82 ± 80.63
pull
Entries 83
Mean 103.5
Std Dev 0

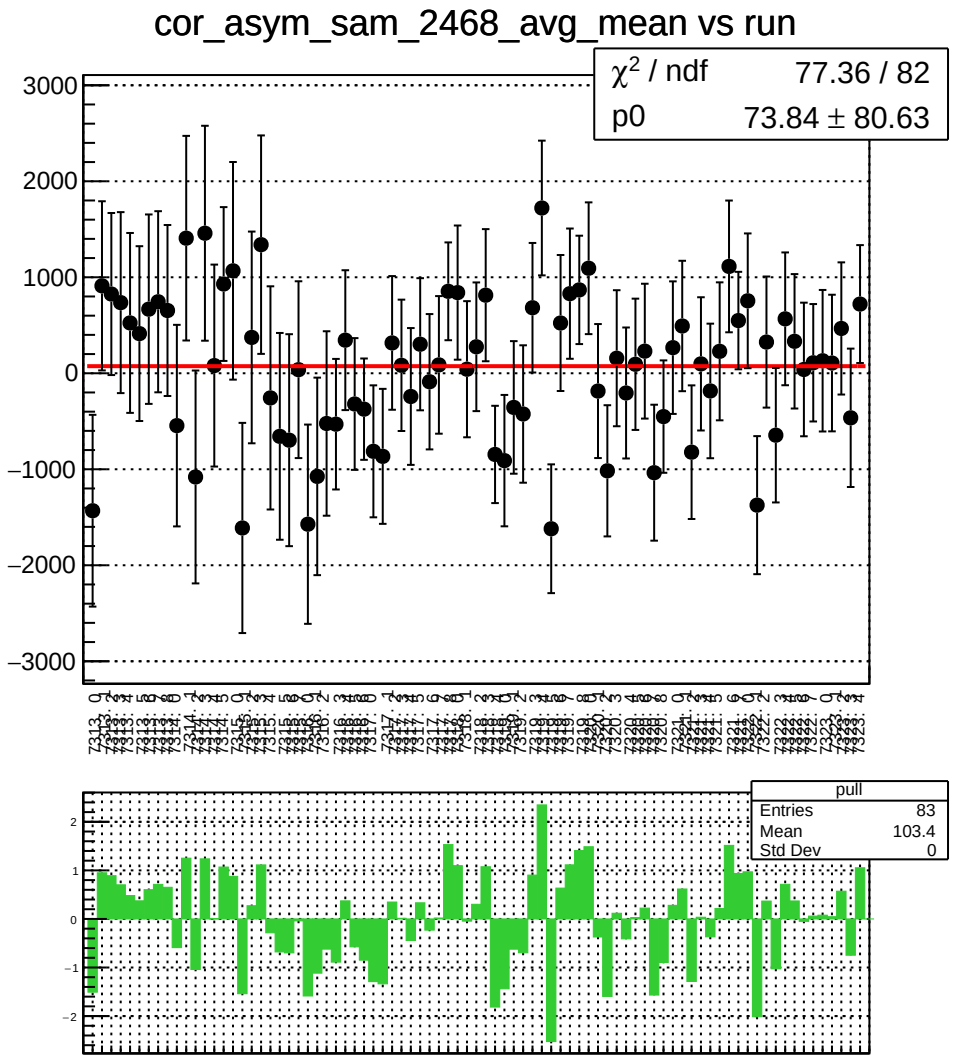

pull1D
Entries 83
Mean −0.005135
Std Dev 0.9655

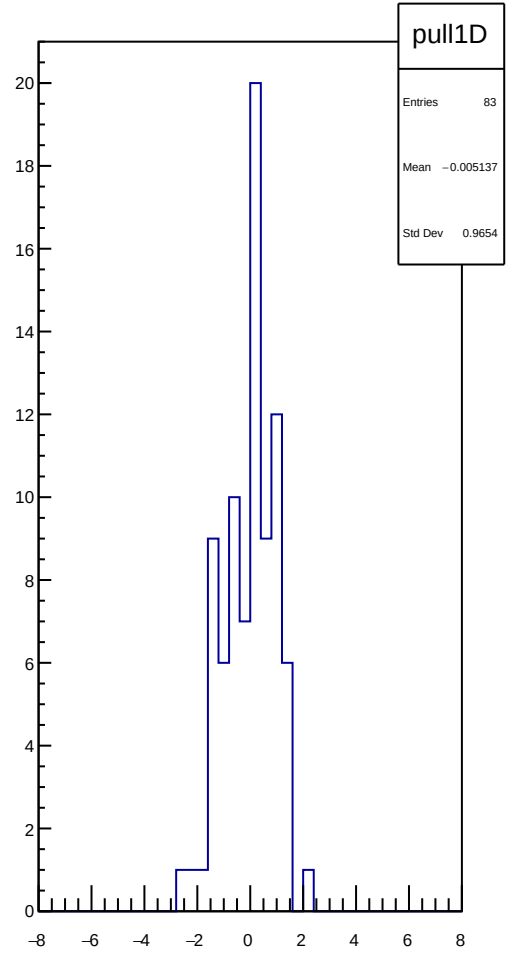

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.486e+04 / 82
p0 71.36 ± 0.05701
110
100
90
80
70
60

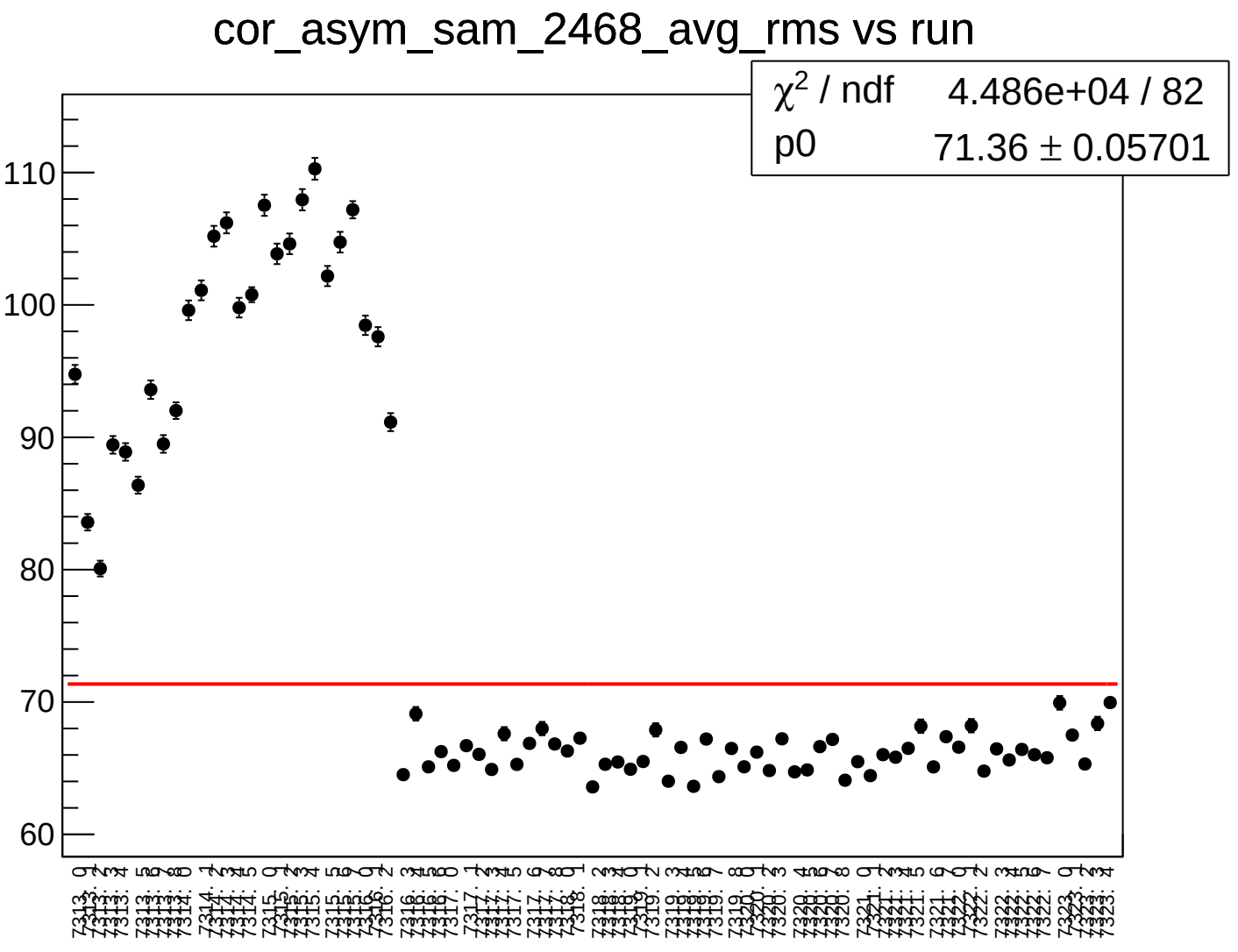

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 59.64 / 82
p0 −111.4 ± 681.5
pull
Entries 83
Mean 26.08
Std Dev 43.77

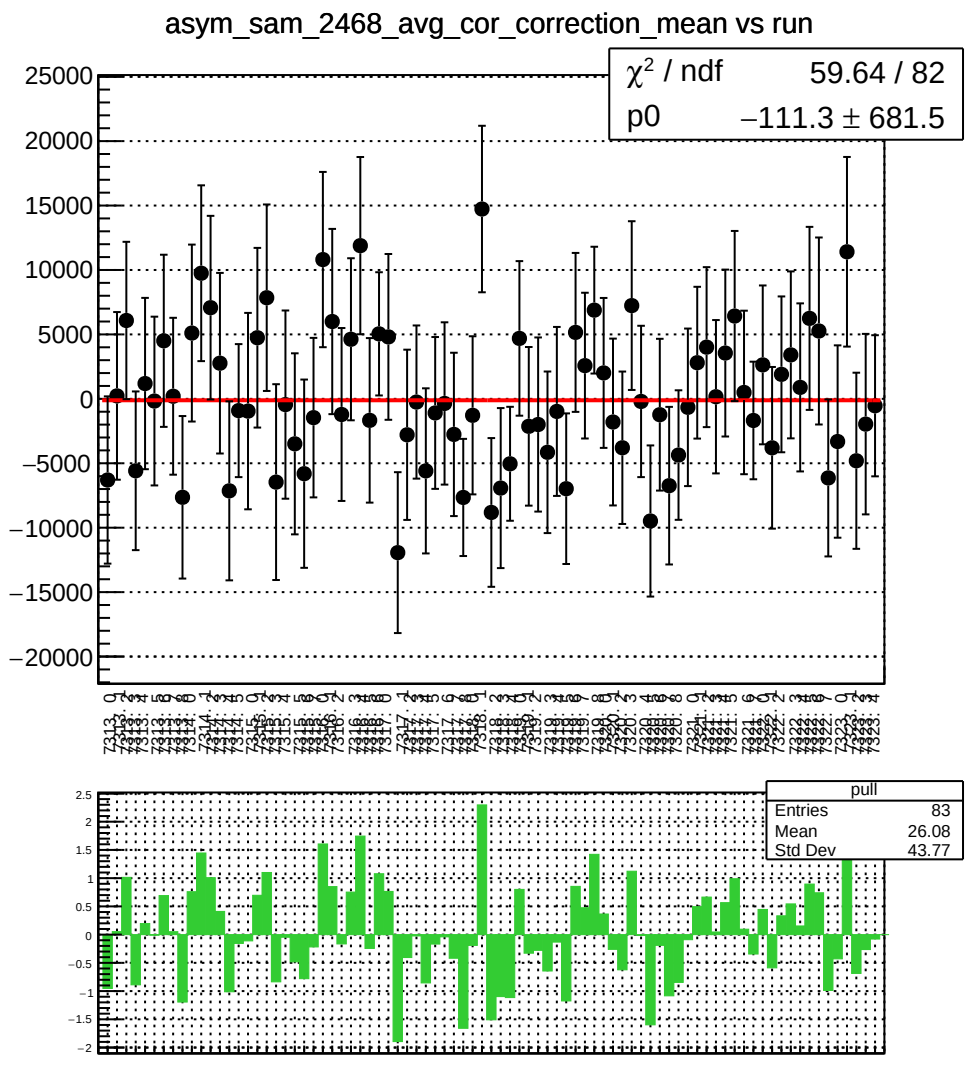

pull1D
Entries 83
Mean 0.0239
Std Dev 0.8473

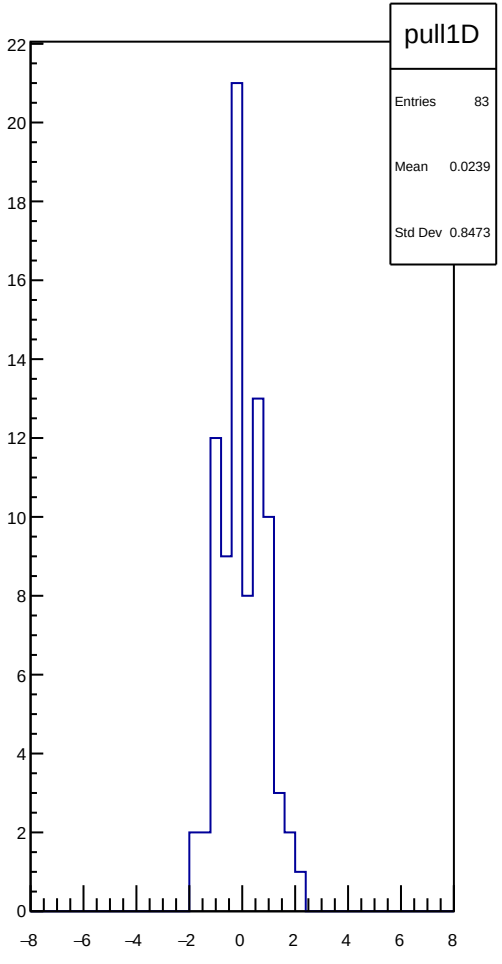

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 8354 / 82
p0 610.1 ± 0.4819
740
720
700
680
660
640
620
600
580
560
540
520

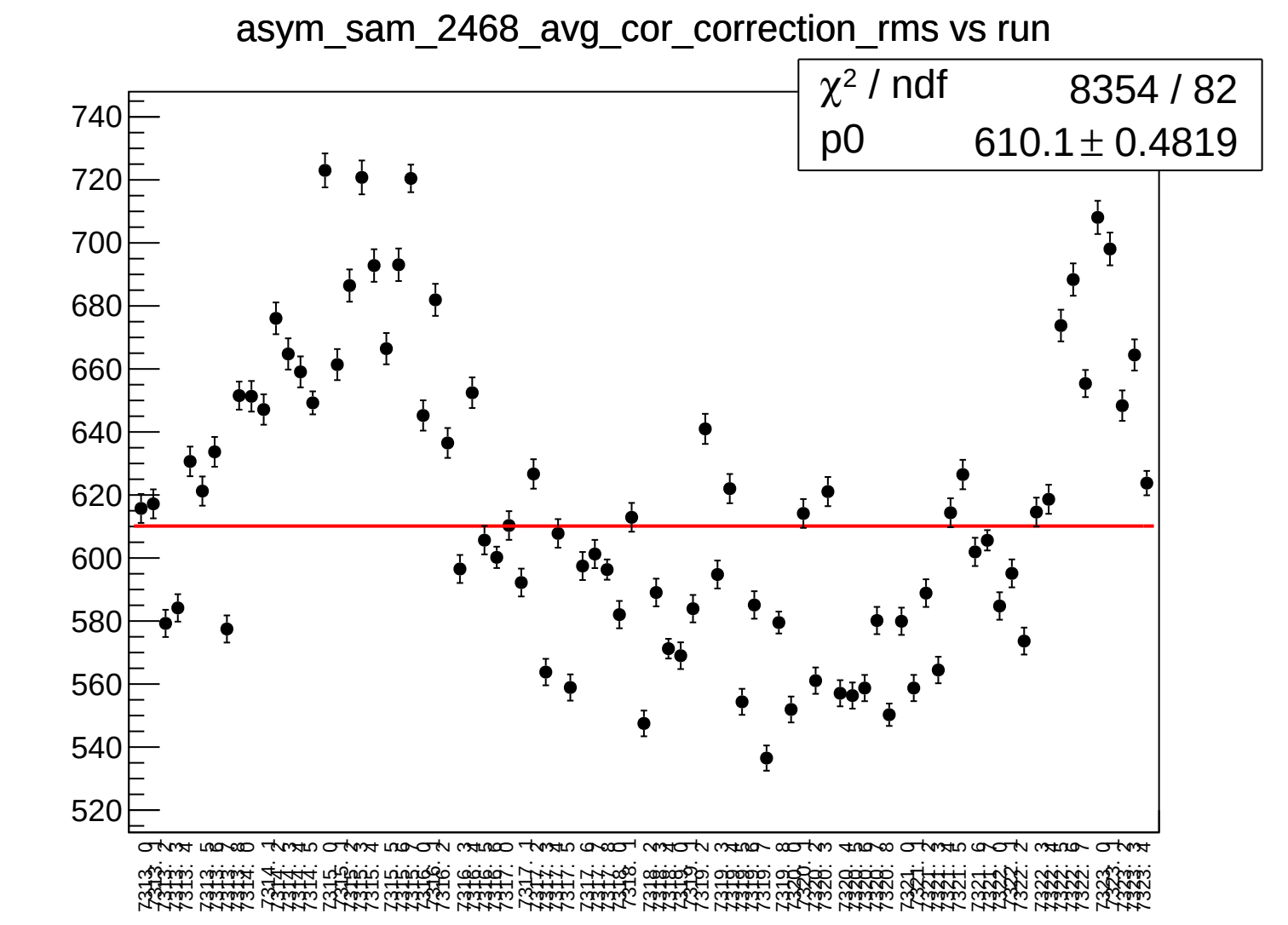

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 77.36 / 82
p0 73.84 ± 80.63
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean 103.4
Std Dev 0
2
1
0
−1
−2

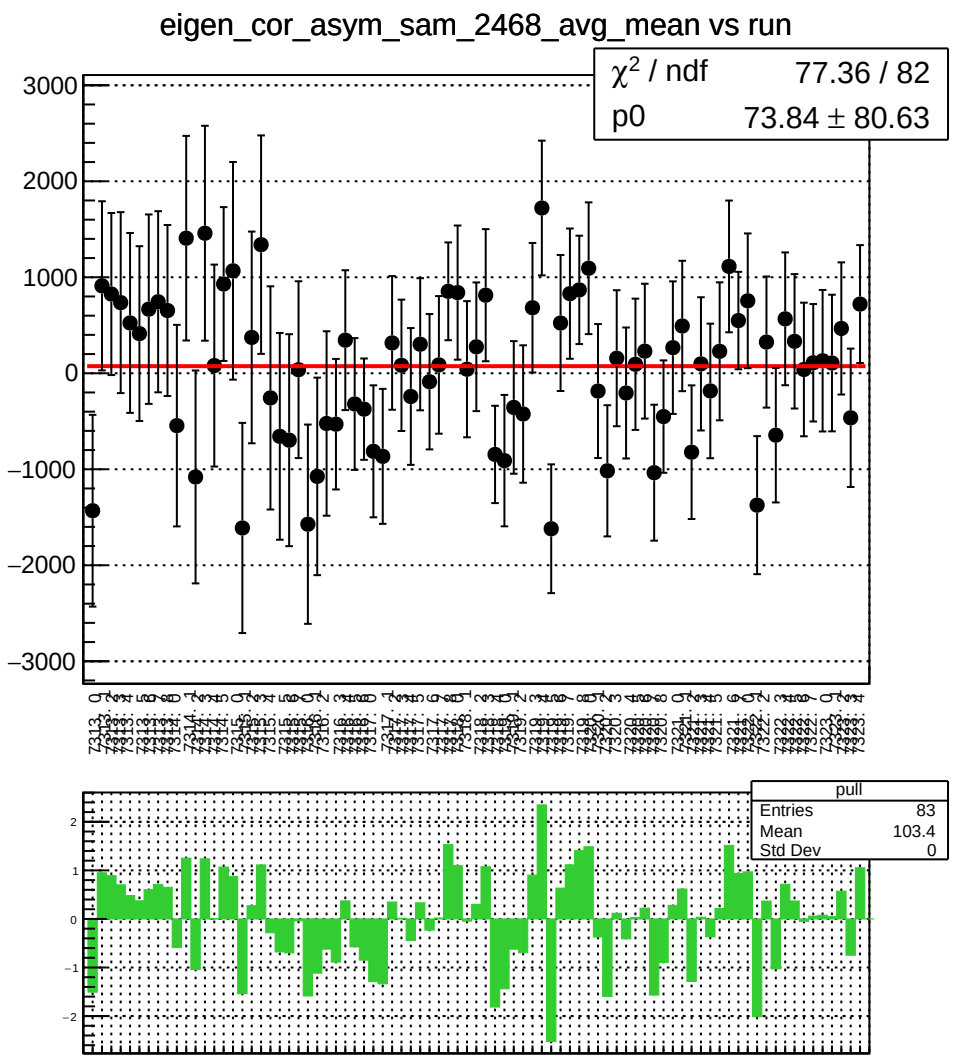

pull1D
Entries 83
Mean −0.005137
Std Dev 0.9654
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

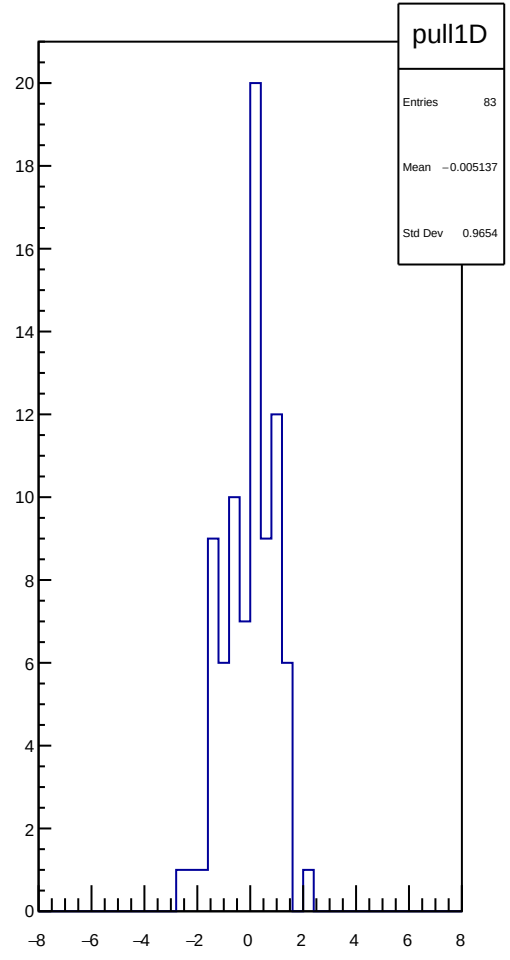

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.486e+04 / 82
p0 71.36 ± 0.05701
110
100
90
80
70
60

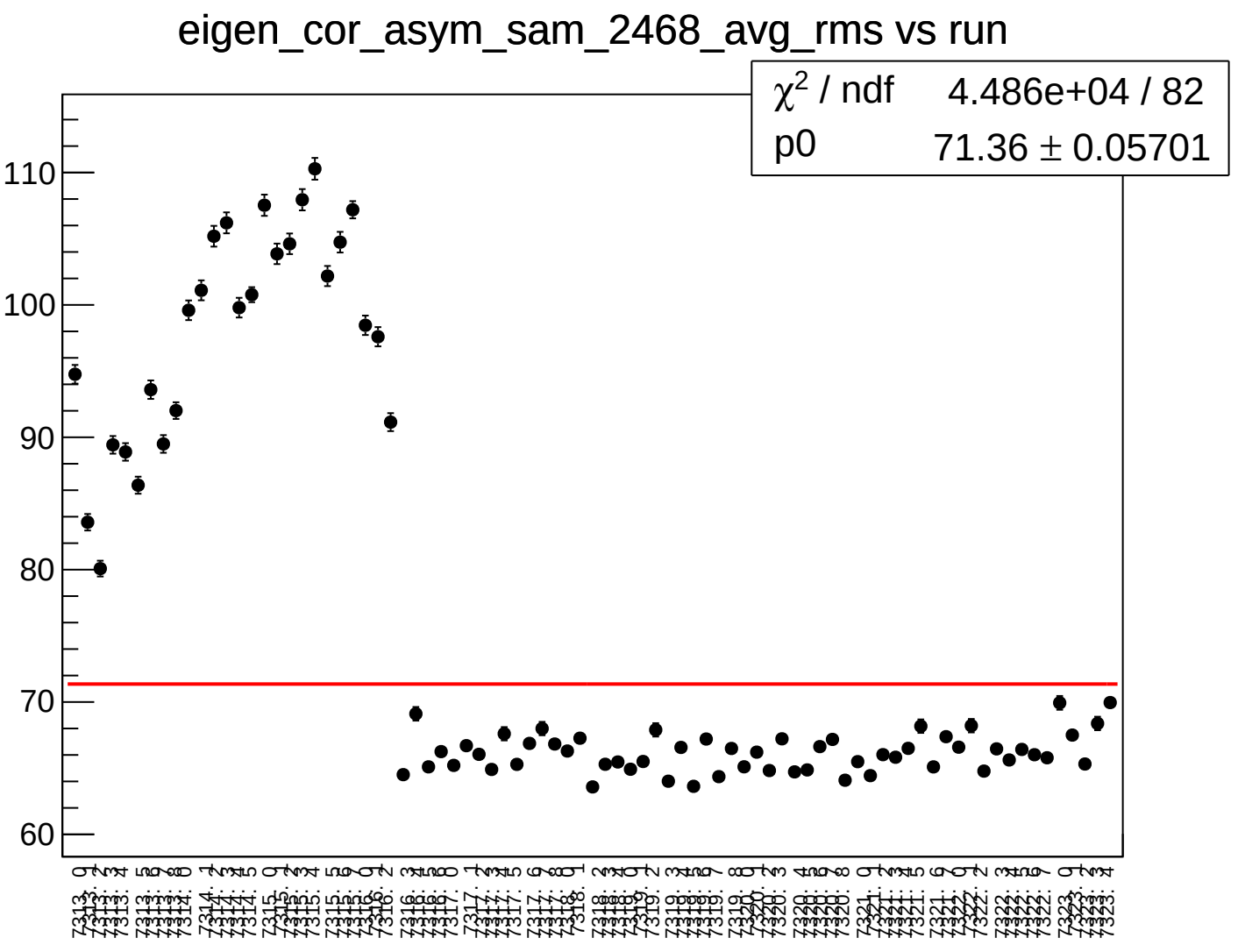

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 59.64 / 82
p0 −111.3 ± 681.5
pull
Entries 83
Mean 26.08
Std Dev 43.77

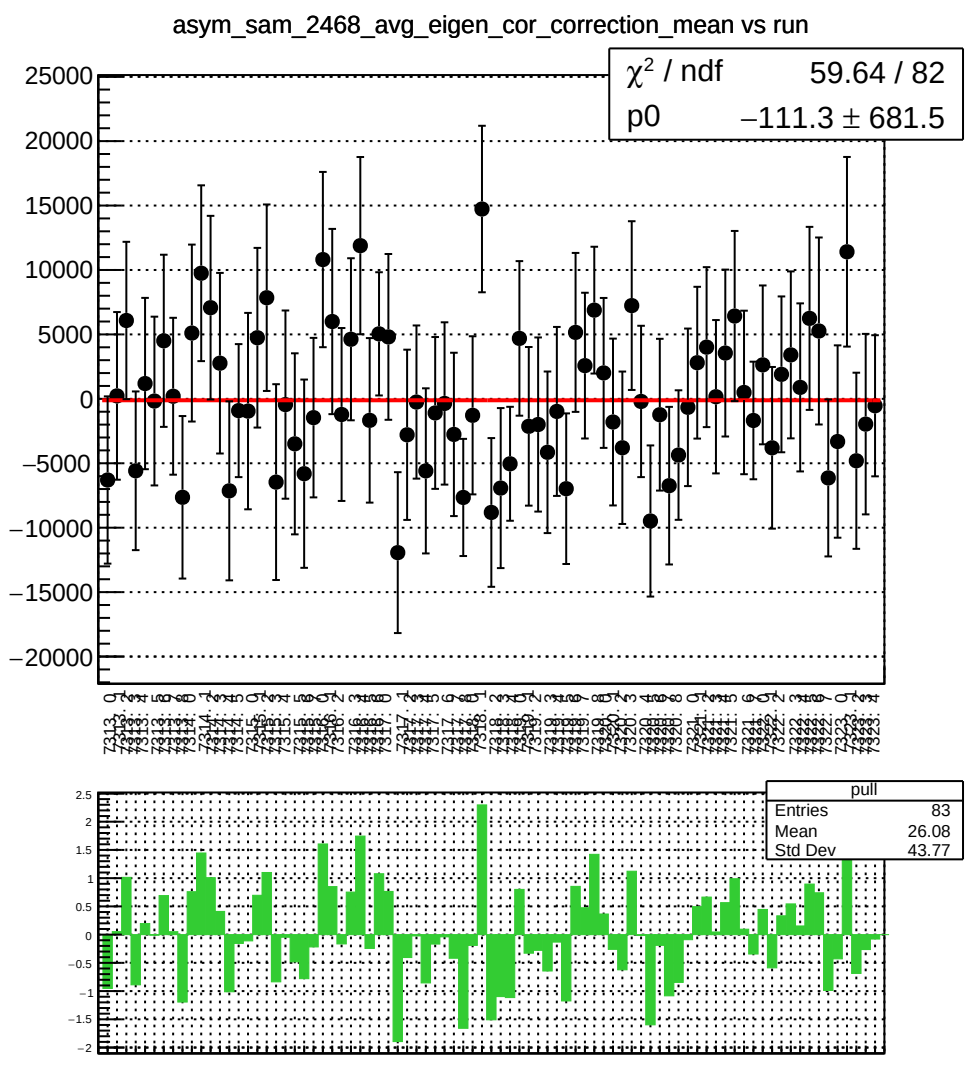

pull1D
Entries 83
Mean 0.0239
Std Dev 0.8473

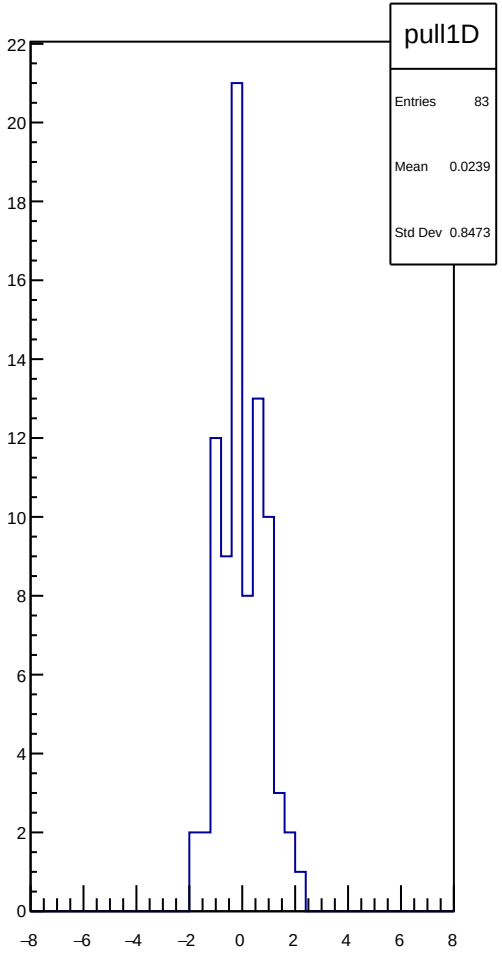

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 8354 / 82
p0 610.1 ± 0.4819
740
720
700
680
660
640
620
600
580
560
540
520

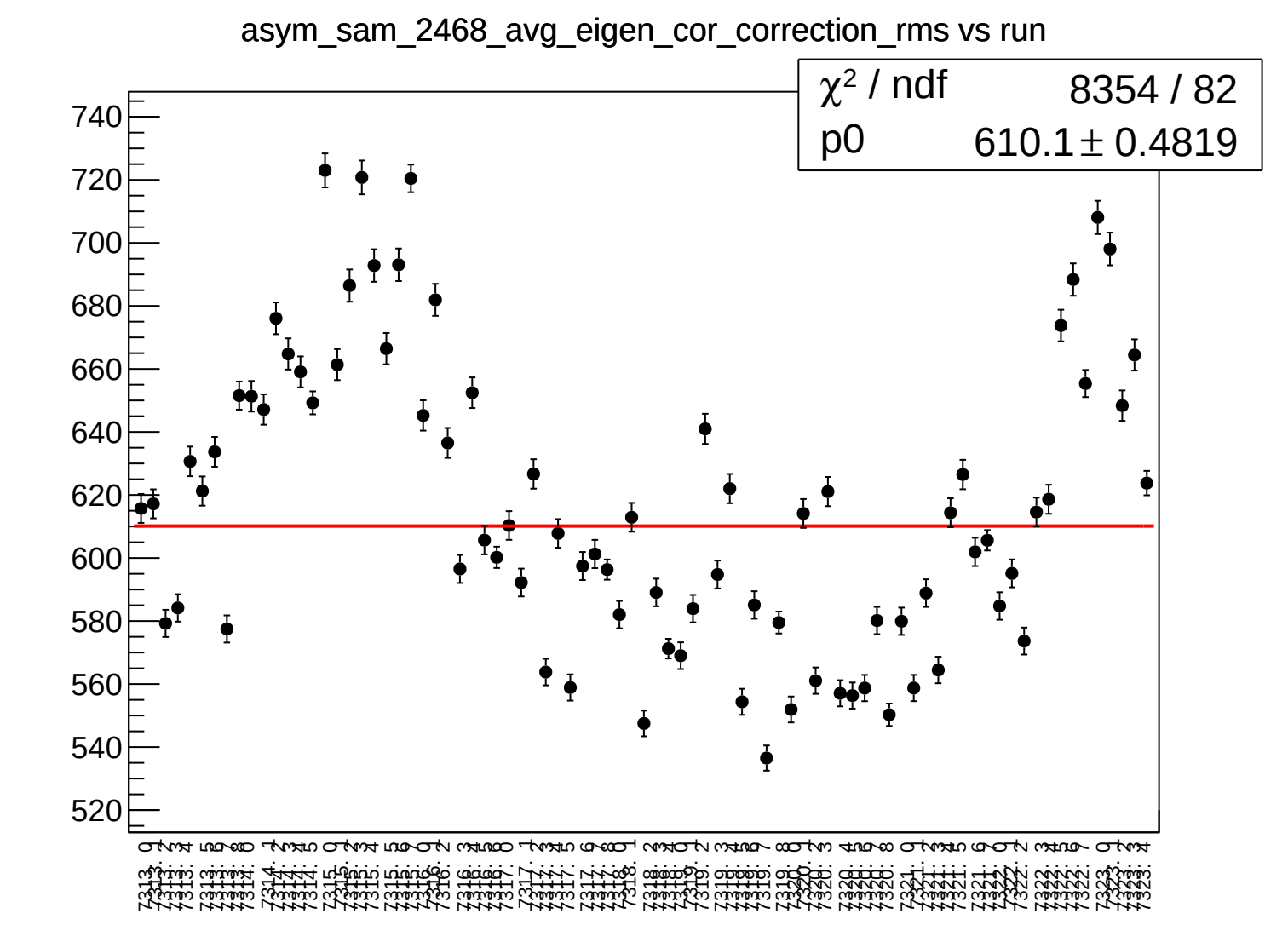

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 77.36 / 82
p0 73.84 ± 80.63
pull
Entries 83
Mean 103.4
Std Dev 0

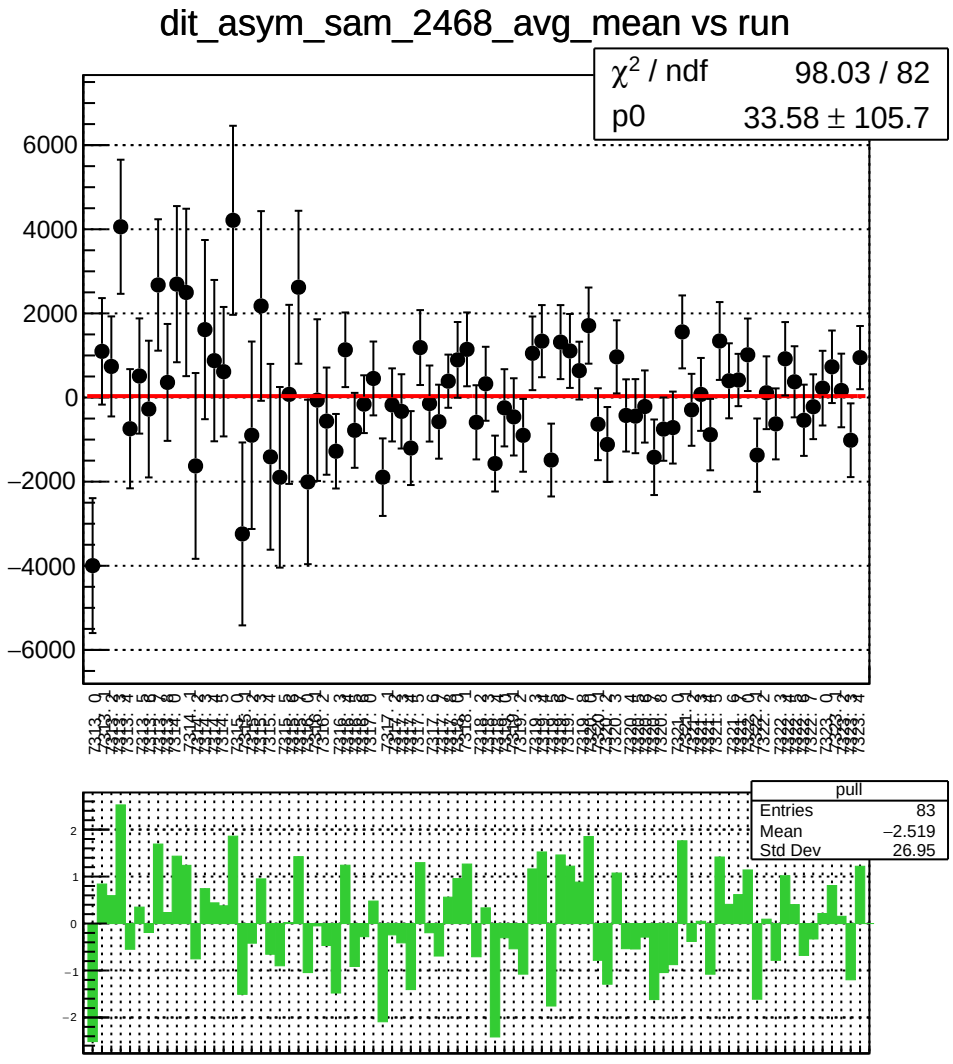

pull1D
Entries 83
Mean −0.005137
Std Dev 0.9654

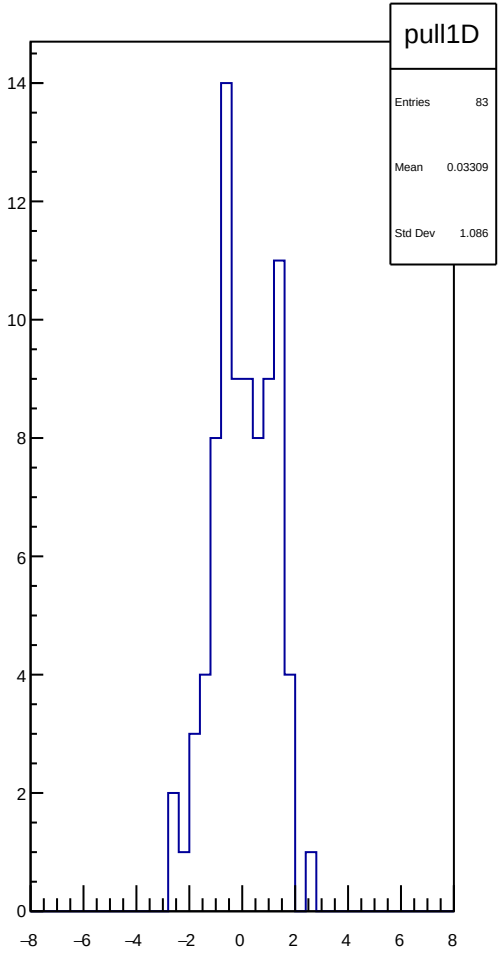

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4.486e+04 / 82
p0 71.36 ± 0.05701
110
100
90
80
70
60

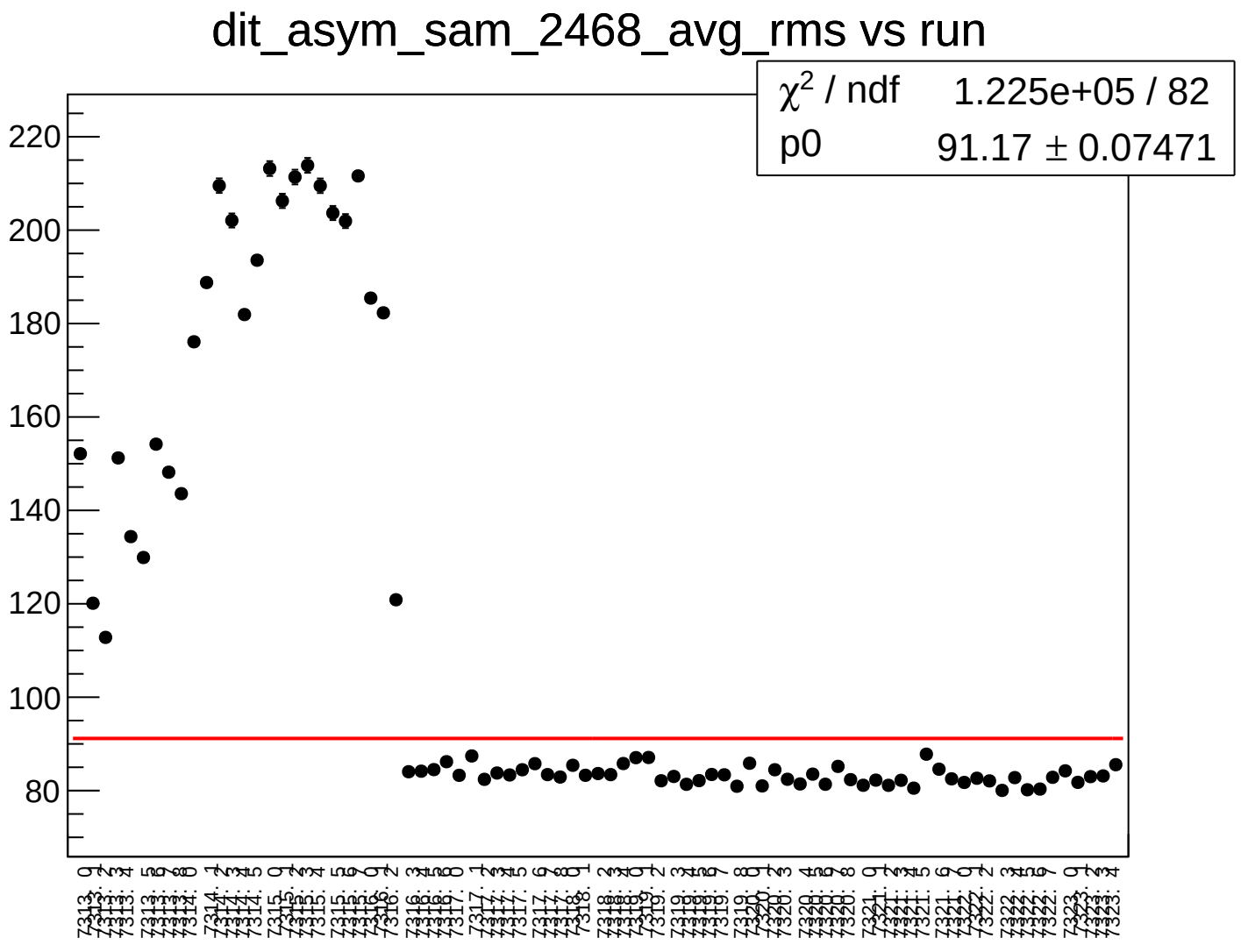

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 59.64 / 82
p0 −111.3 ± 681.5
pull
Entries 83
Mean 26.08
Std Dev 43.77

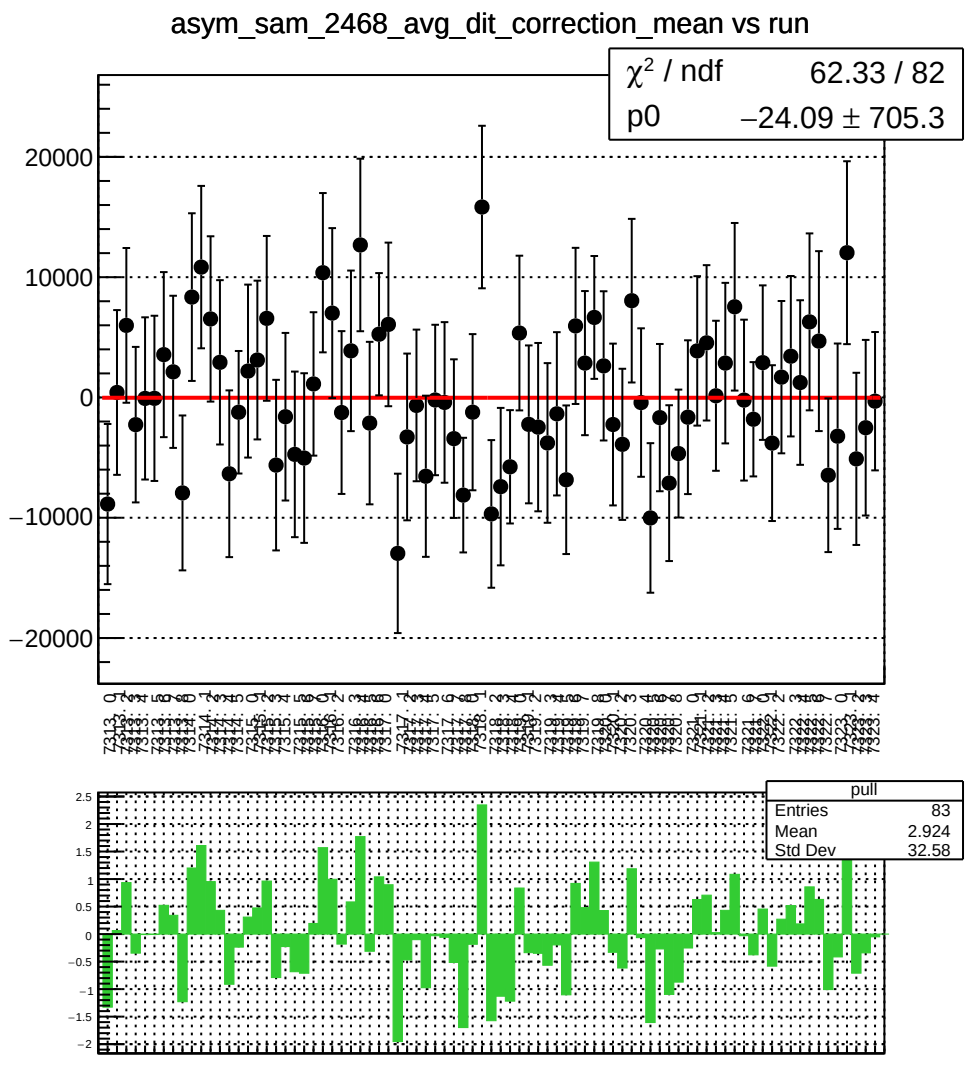

pull1D
Entries 83
Mean 0.0239
Std Dev 0.8473

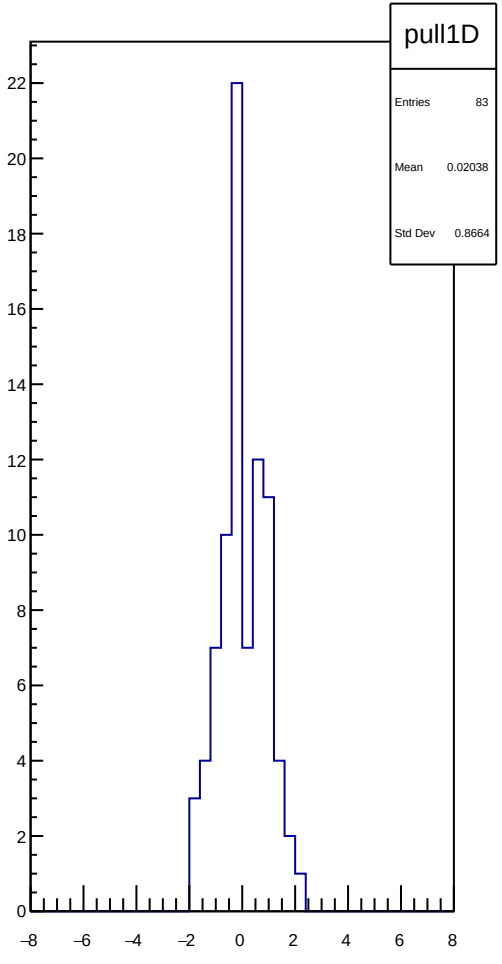

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 8354 / 82
p0 610.1 ± 0.4819
740
720
700
680
660
640
620
600
580
560
540
520

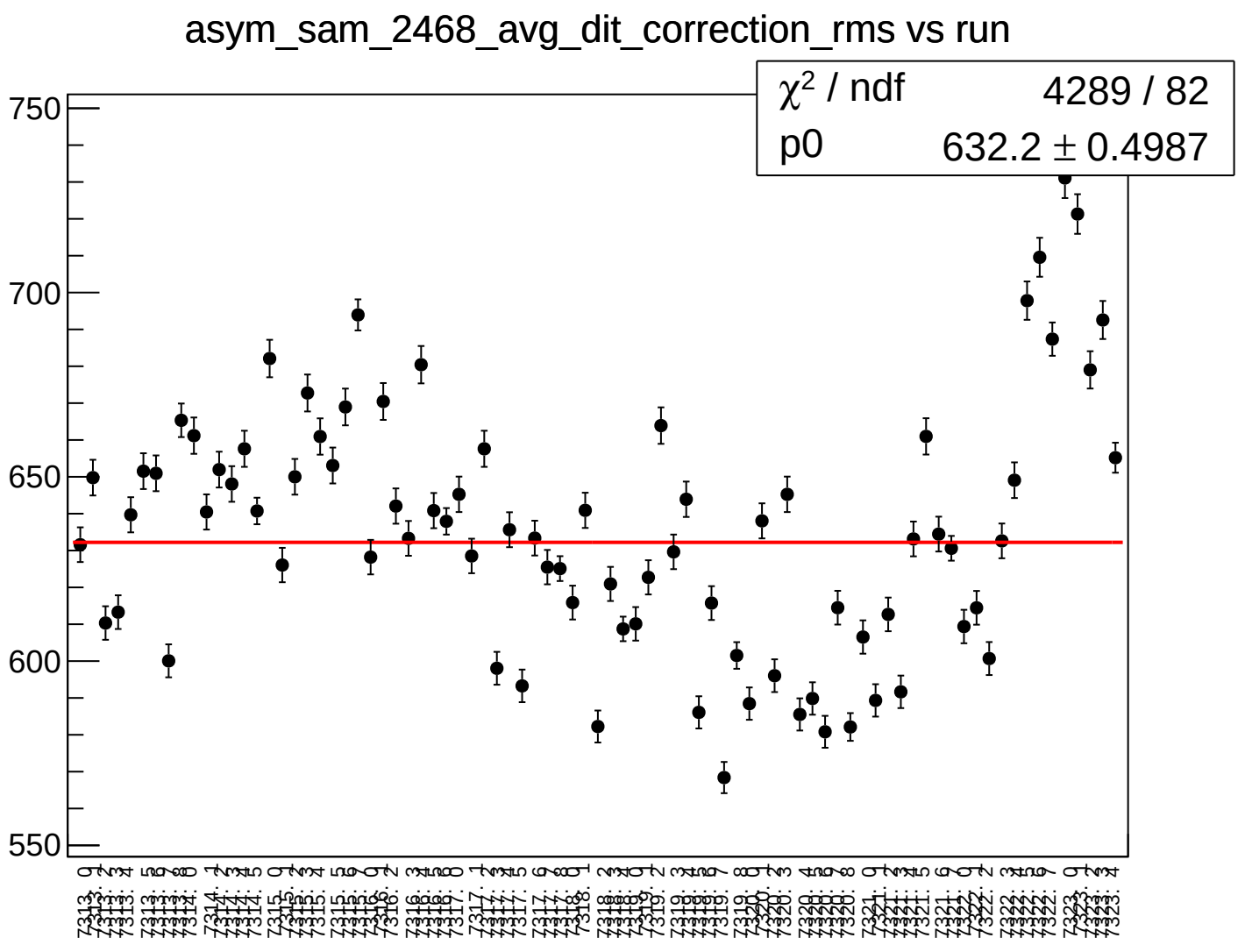

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 98.03 / 82
p0 33.58 ± 105.7
pull
Entries 83
Mean −2.519
Std Dev 26.95

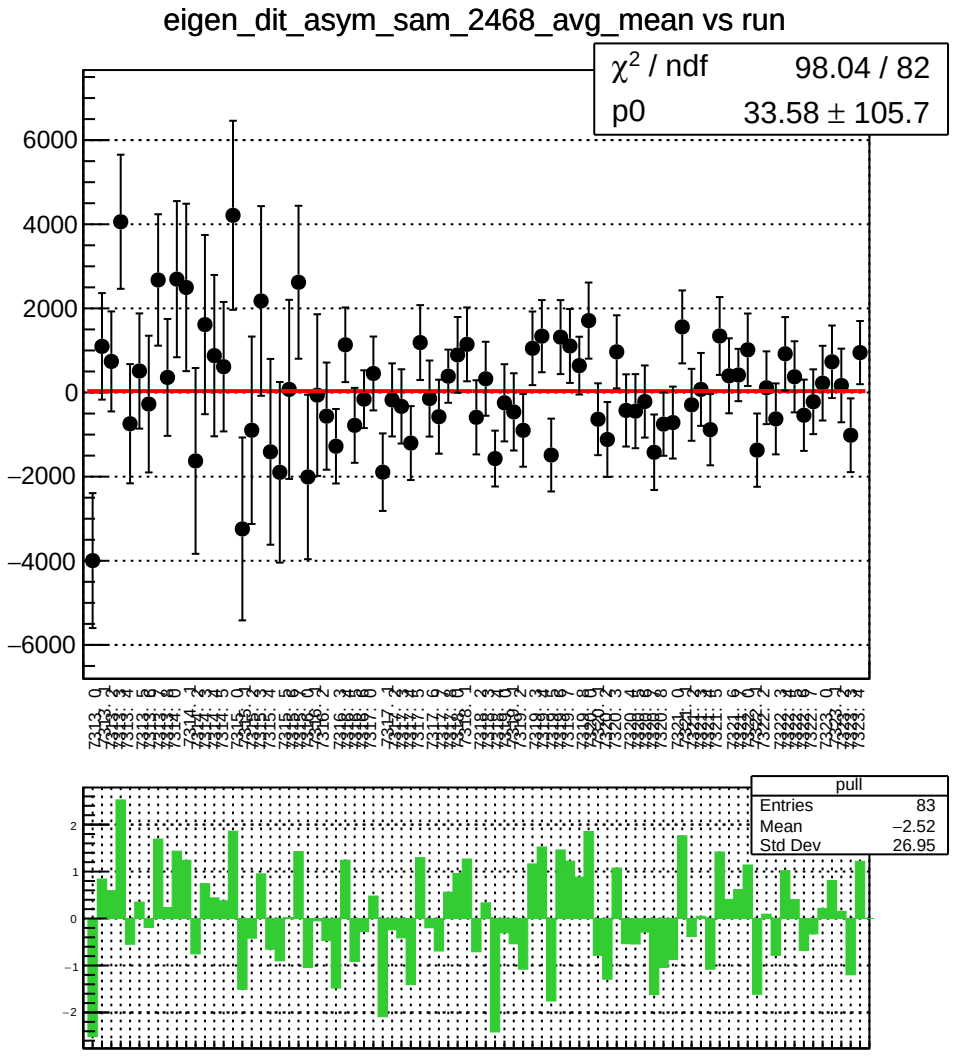

pull1D
Entries 83
Mean 0.03309
Std Dev 1.086

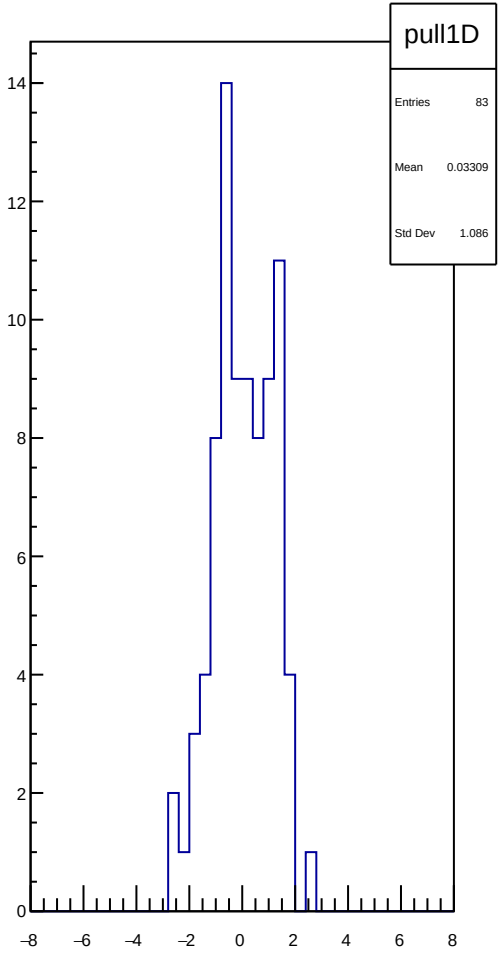

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.225e+05 / 82
p0 91.17 ± 0.07471
220
200
180
160
140
120
100
80

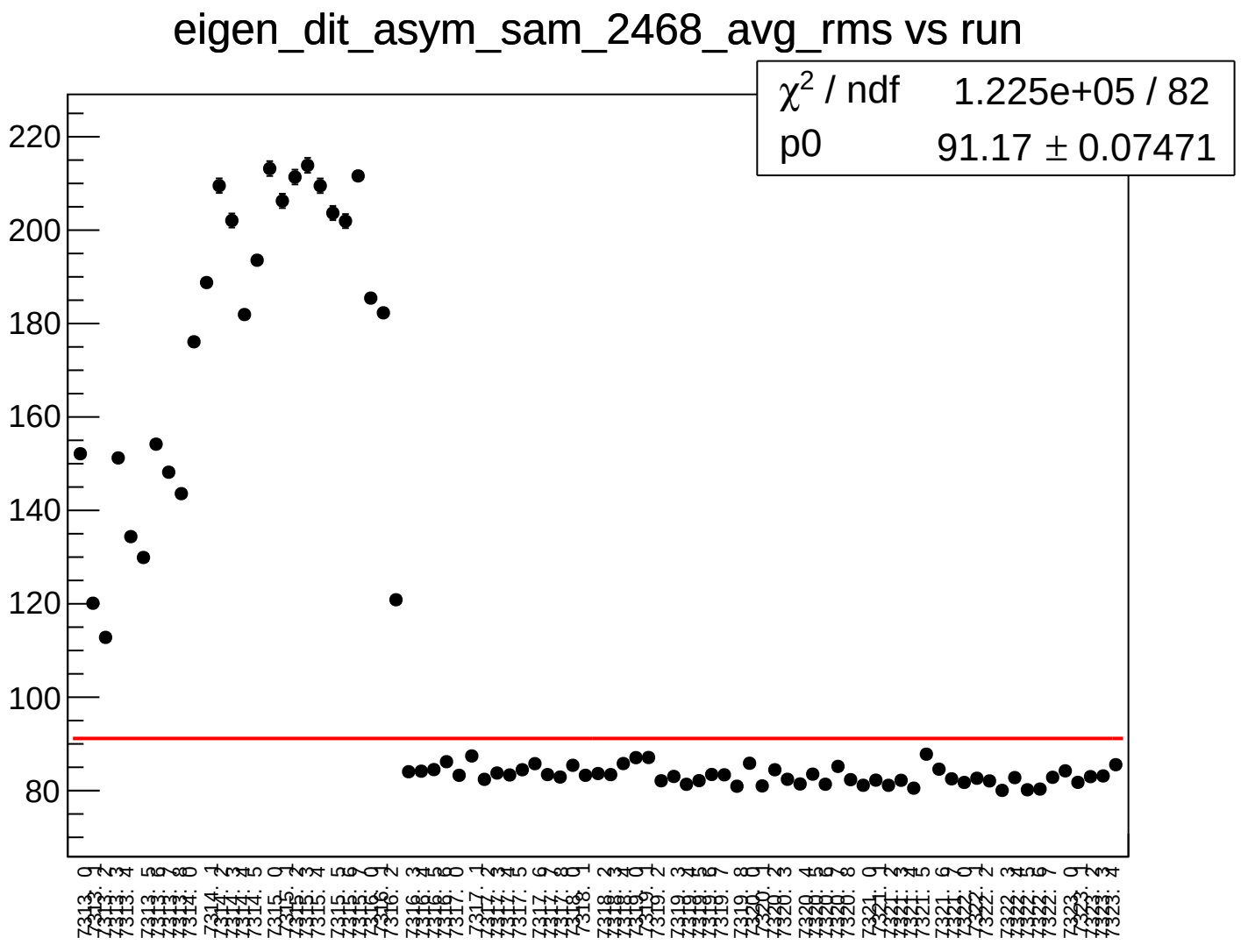

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 62.33 / 82
p0 −24.09 ± 705.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 2.924
Std Dev 32.58
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

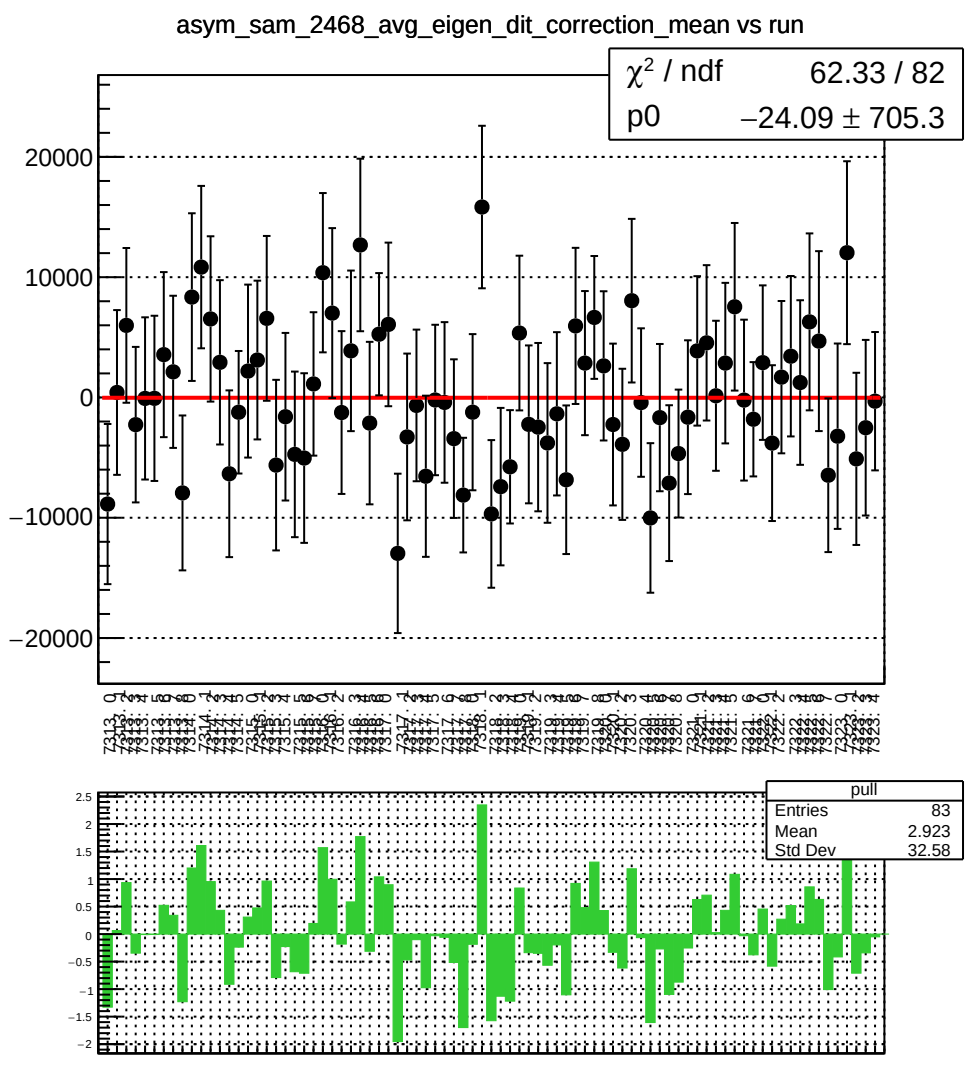

pull1D
Entries 83
Mean 0.02038
Std Dev 0.8664
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

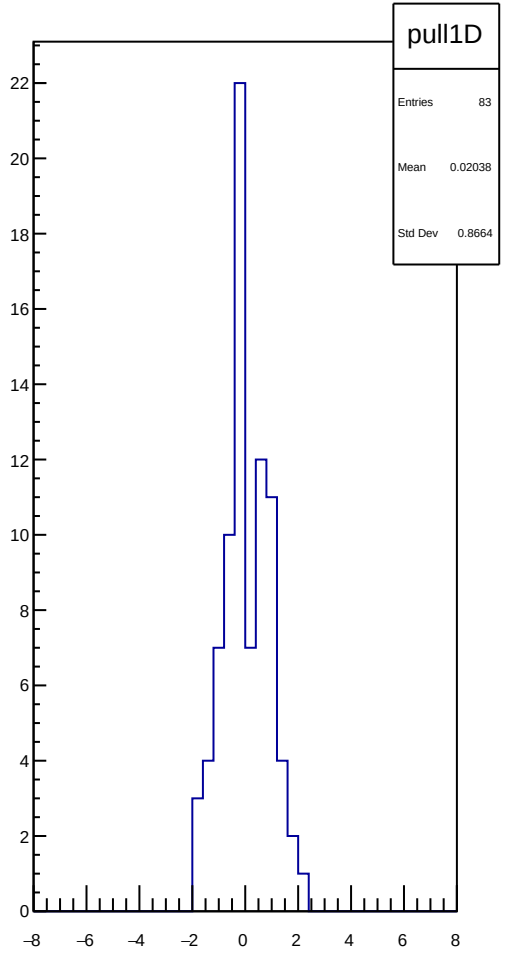

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 4289 / 82
p0 632.2 ± 0.4987
750
700
650
600
550

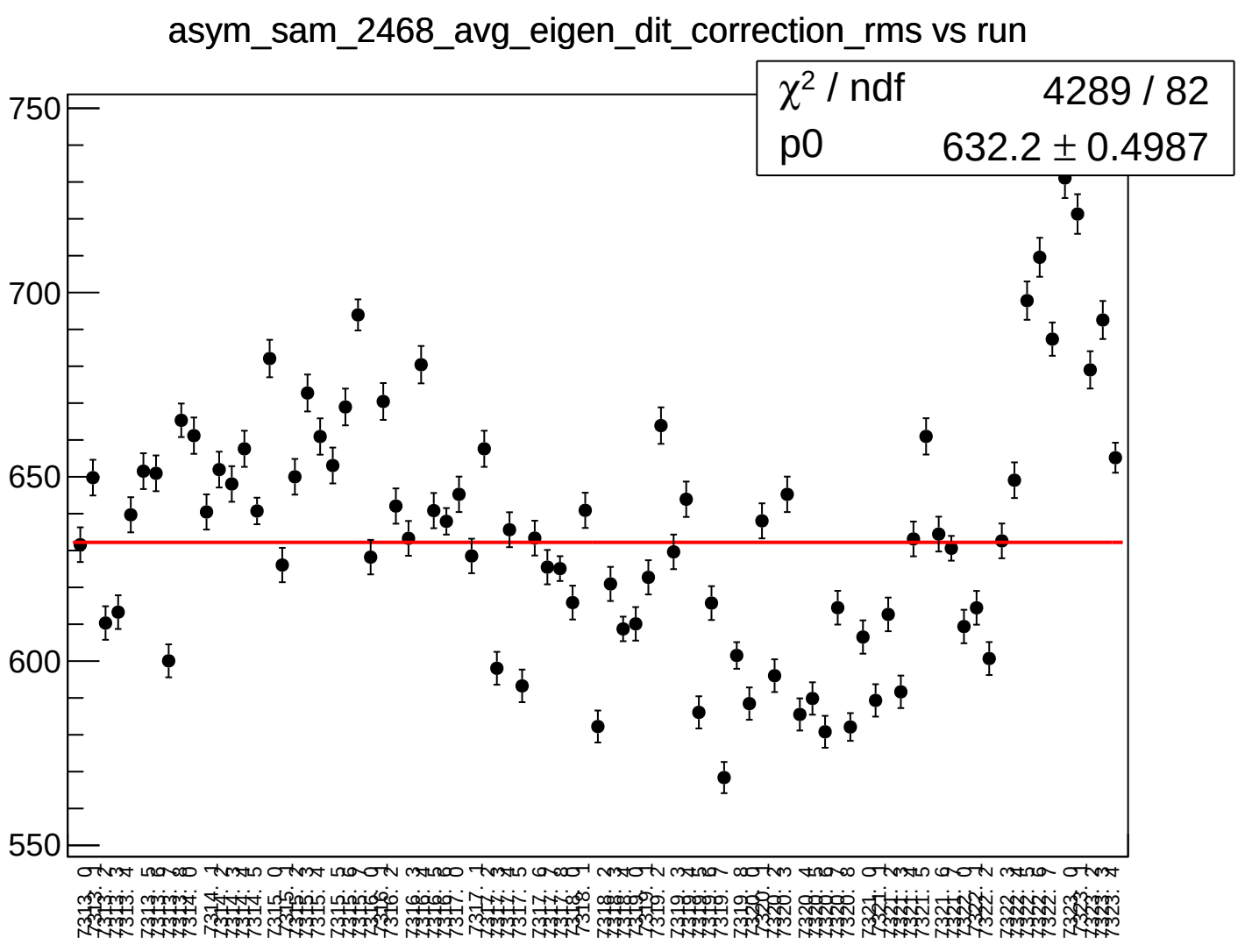

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 98.04 / 82
p0 33.58 ± 105.7
pull
Entries 83
Mean −2.52
Std Dev 26.95

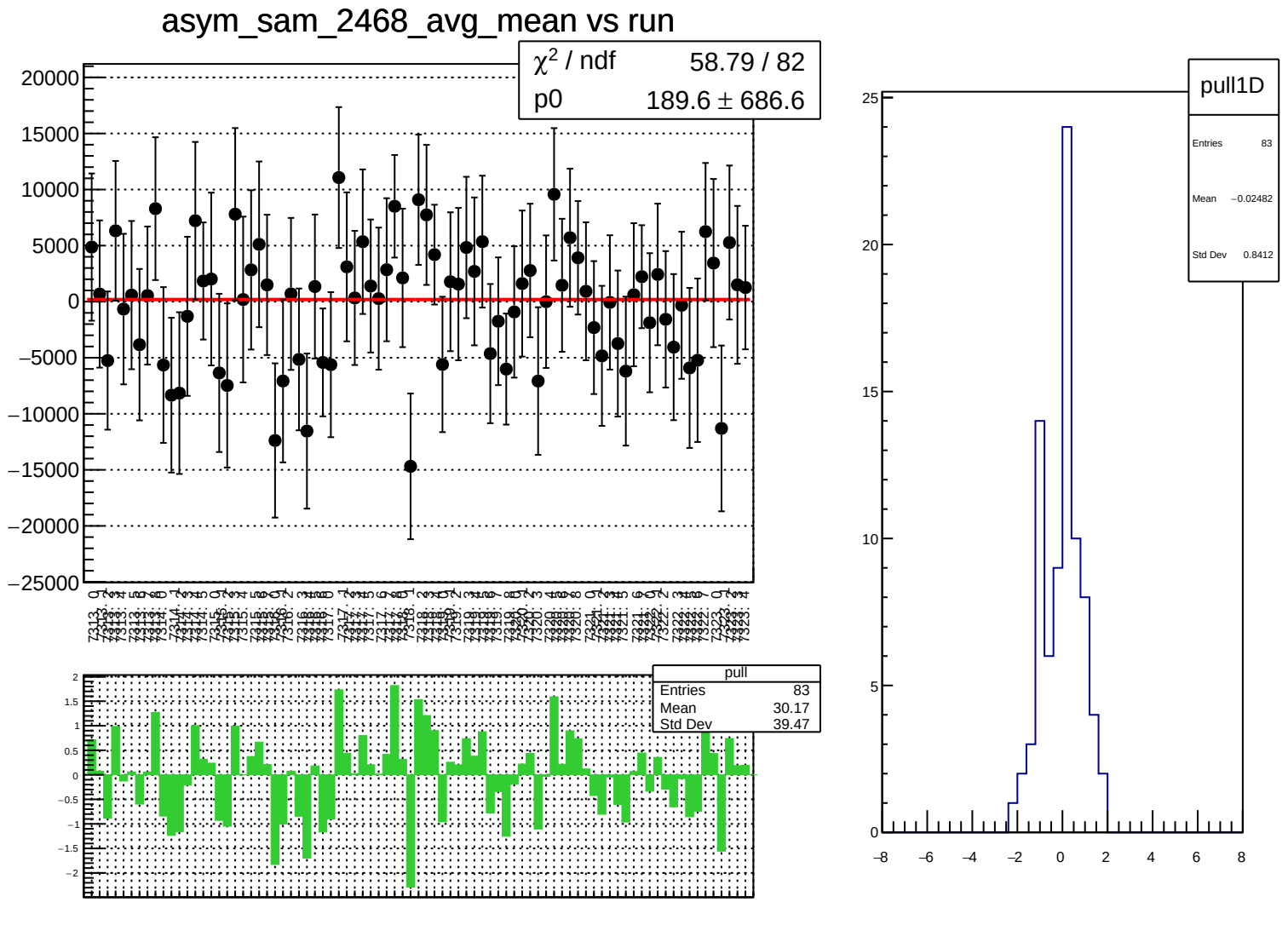

pull1D
Entries 83
Mean 0.03309
Std Dev 1.086

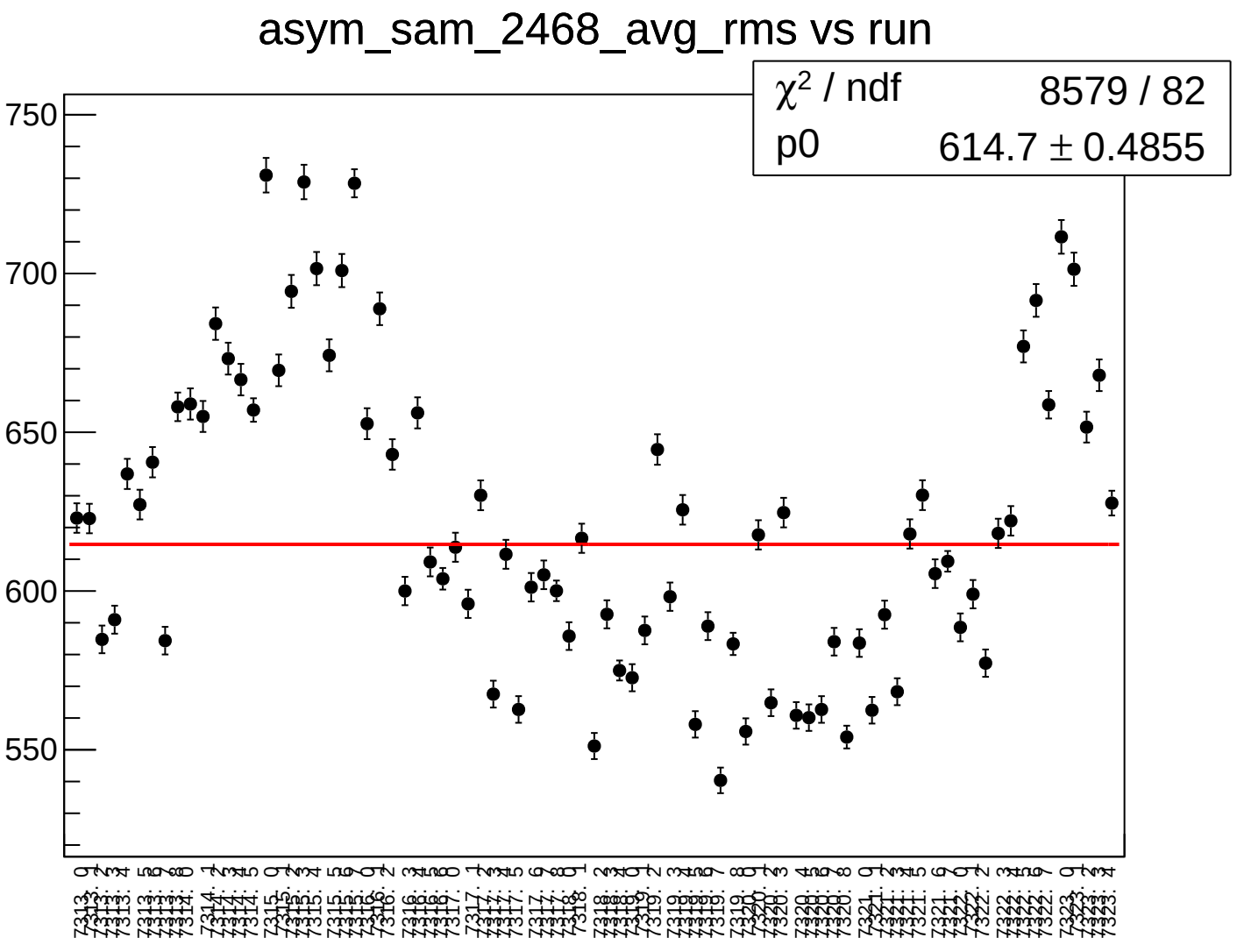

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.225e+05 / 82
p0 91.17 ± 0.07471
220
200
180
160
140
120
100
80

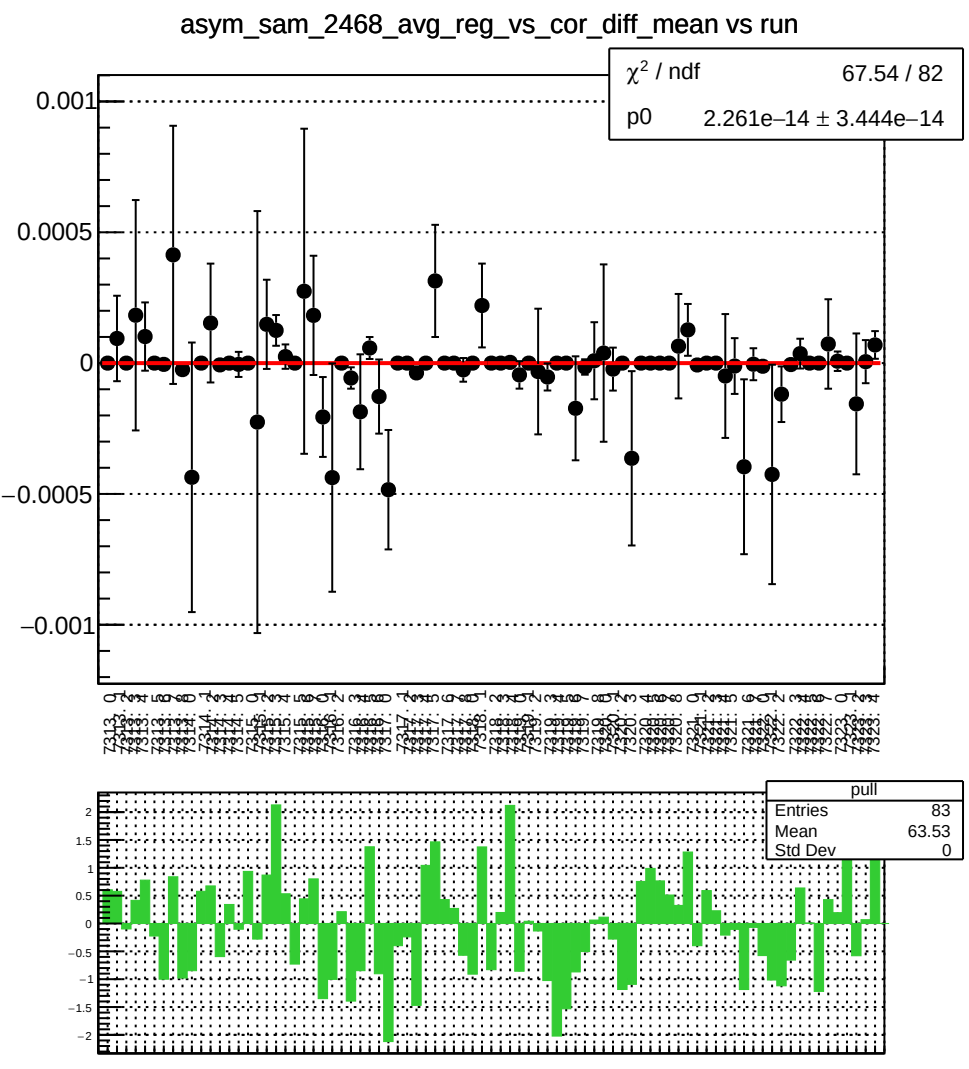

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.33 / 82
p0 −24.09 ± 705.3
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 2.923
Std Dev 32.58
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

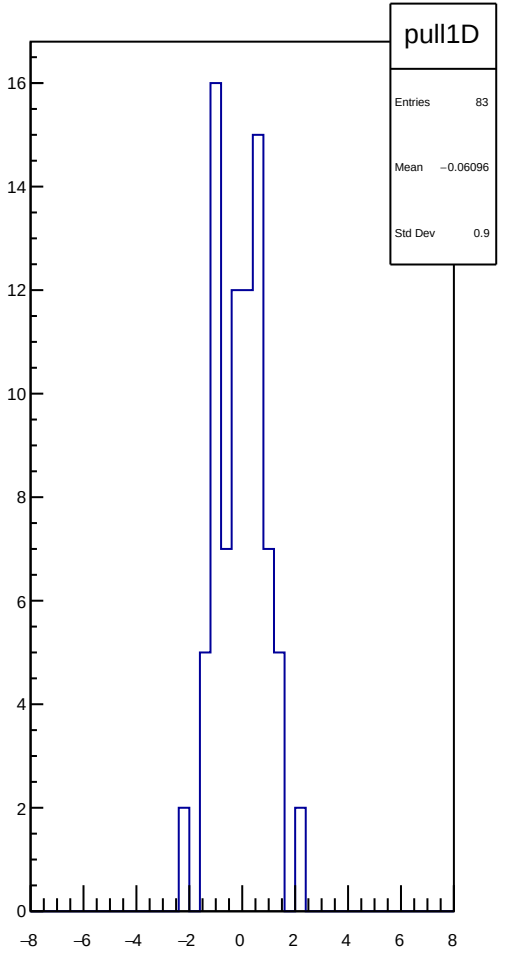

pull1D
Entries 83
Mean 0.02038
Std Dev 0.8664
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

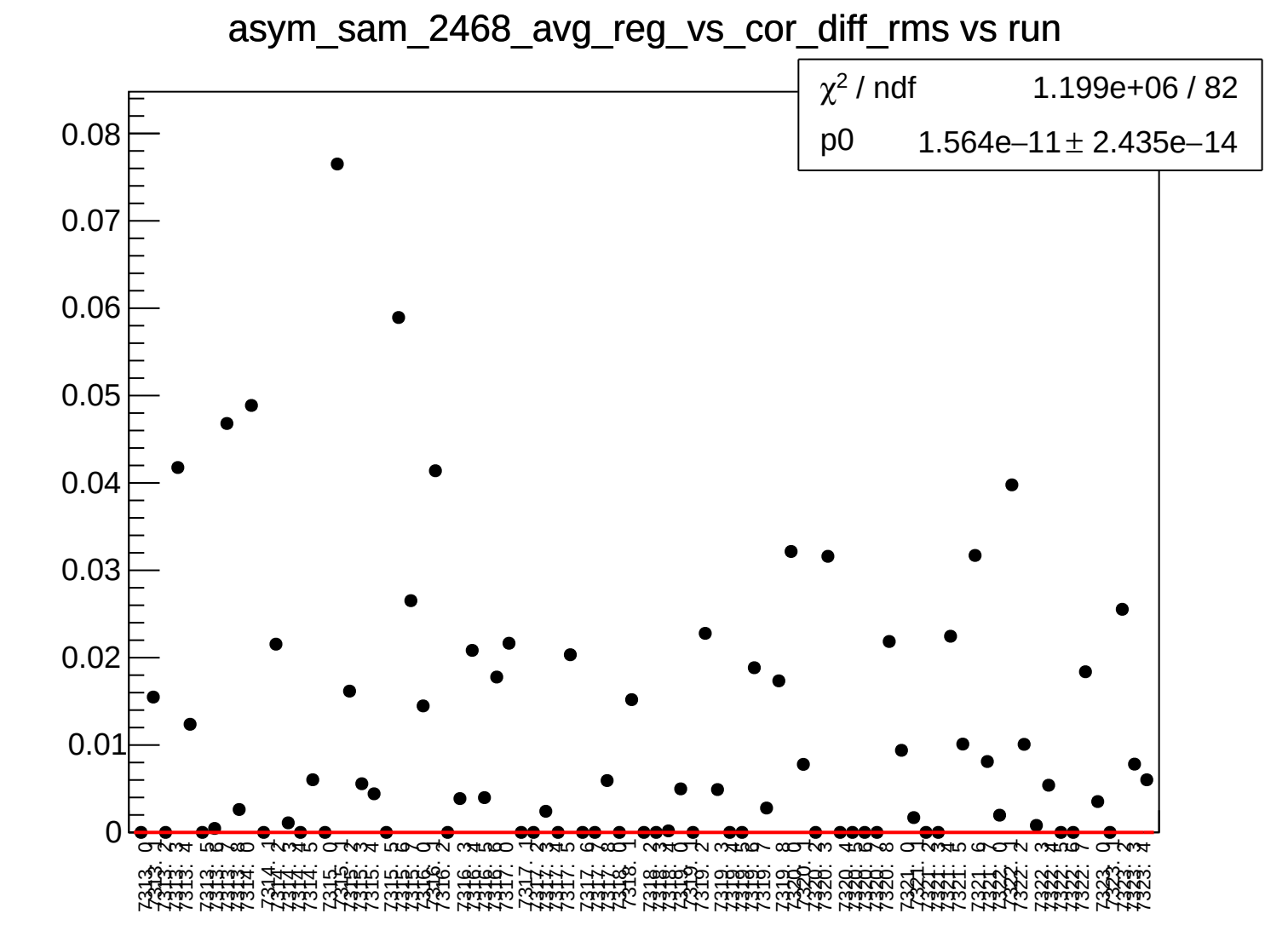

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 4289 / 82
p0 632.2 ± 0.4987
750
700
650
600
550

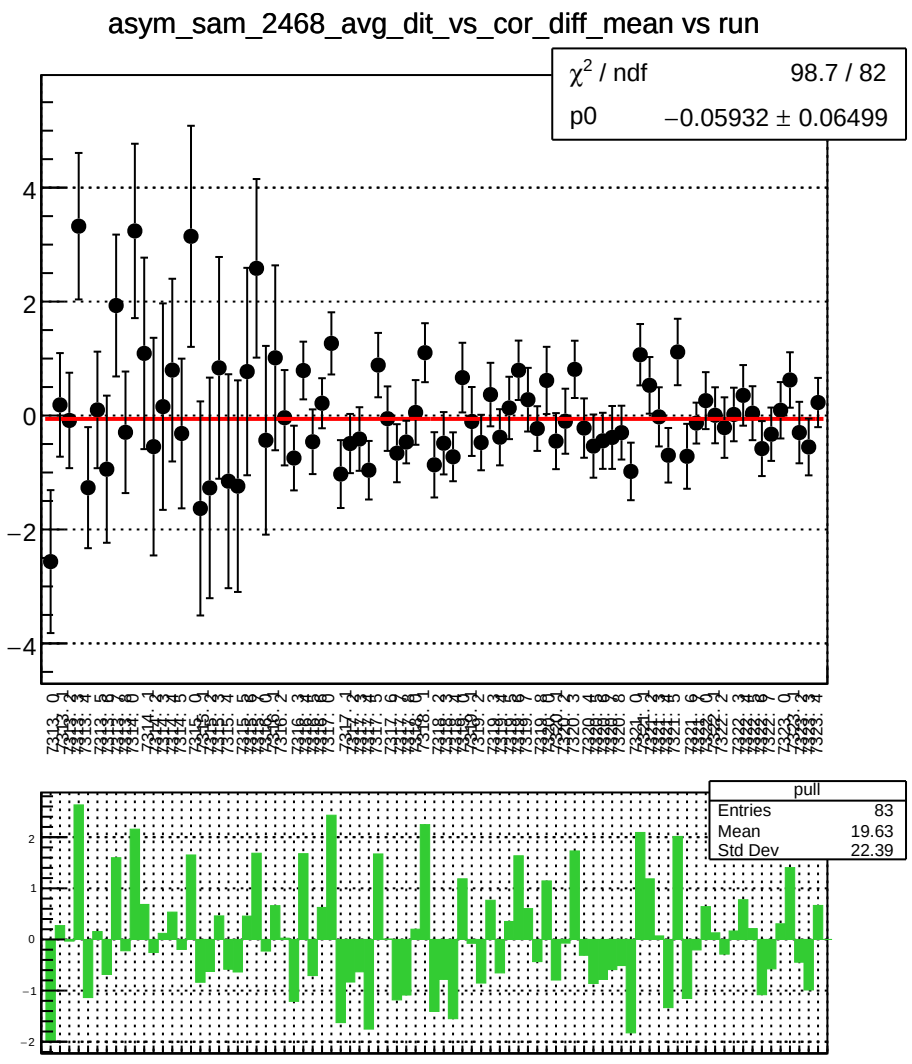

asym_sam_2468_avg_mean vs run
χ² / ndf 58.79 / 82
p0 189.6 ± 686.6
pull
Entries 83
Mean 30.17
Std Dev 39.47
pull1D
Entries 83
Mean −0.02482
Std Dev 0.8412

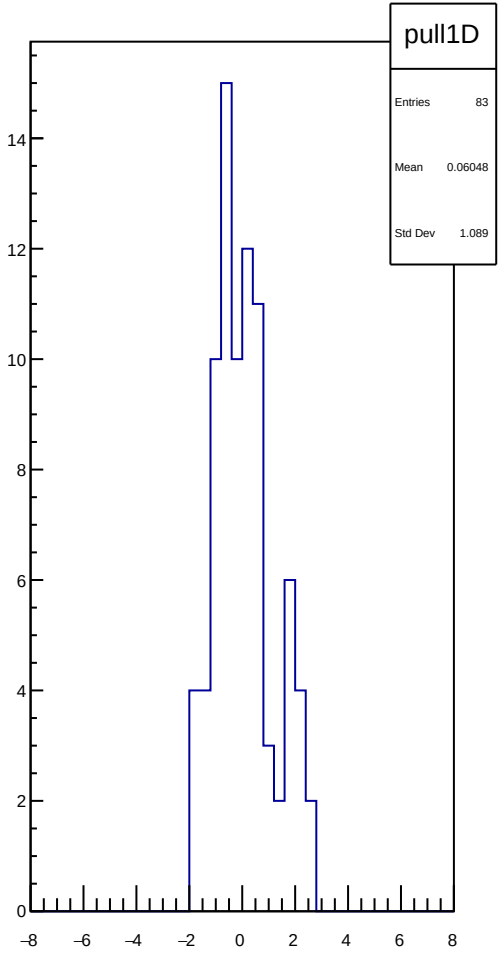

asym_sam_2468_avg_rms vs run
χ² / ndf 8579 / 82
p0 614.7 ± 0.4855
750
700
650
600
550

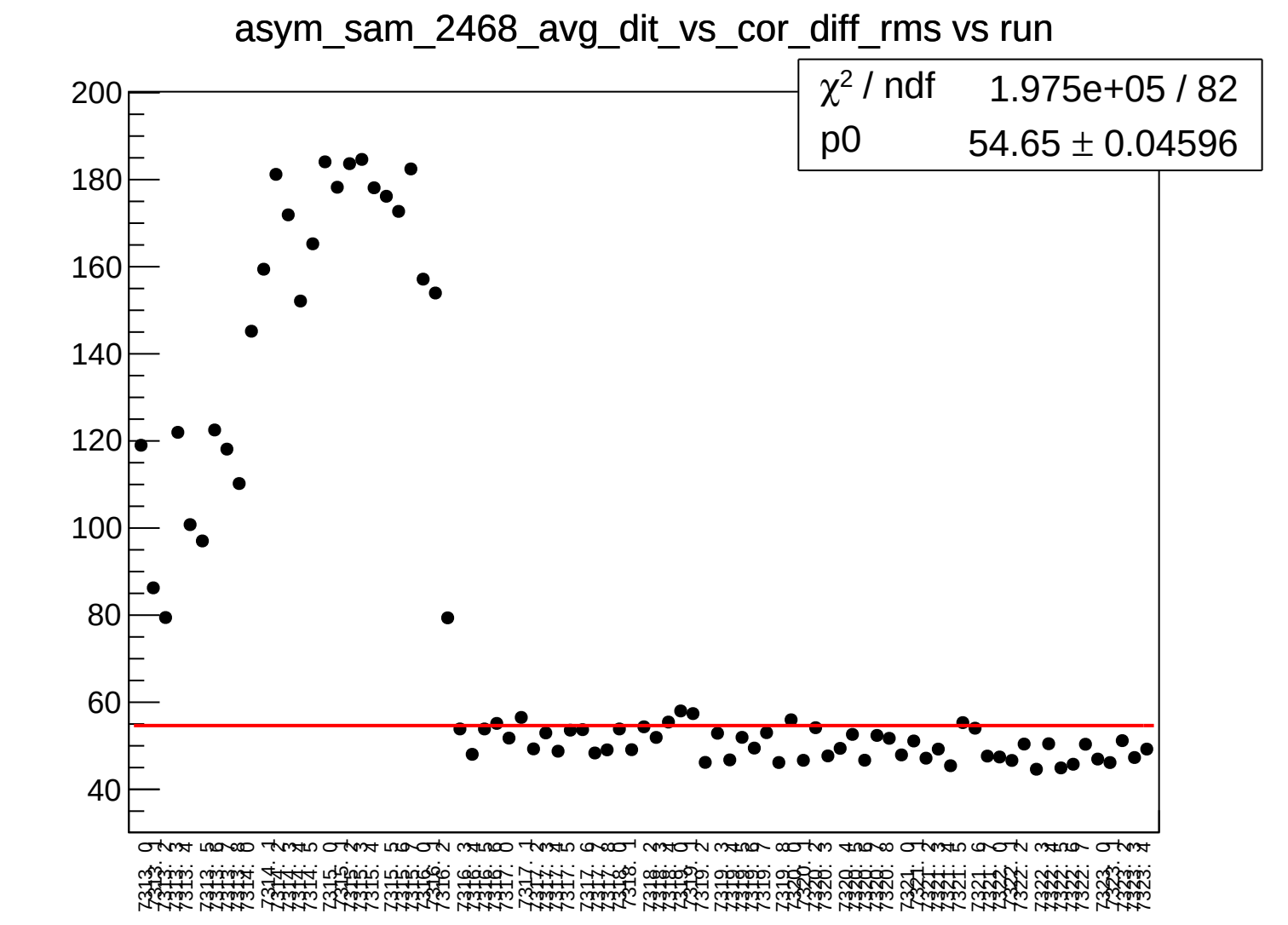

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.54 / 82
p0 2.261e−14 ± 3.444e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 83
Mean 63.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

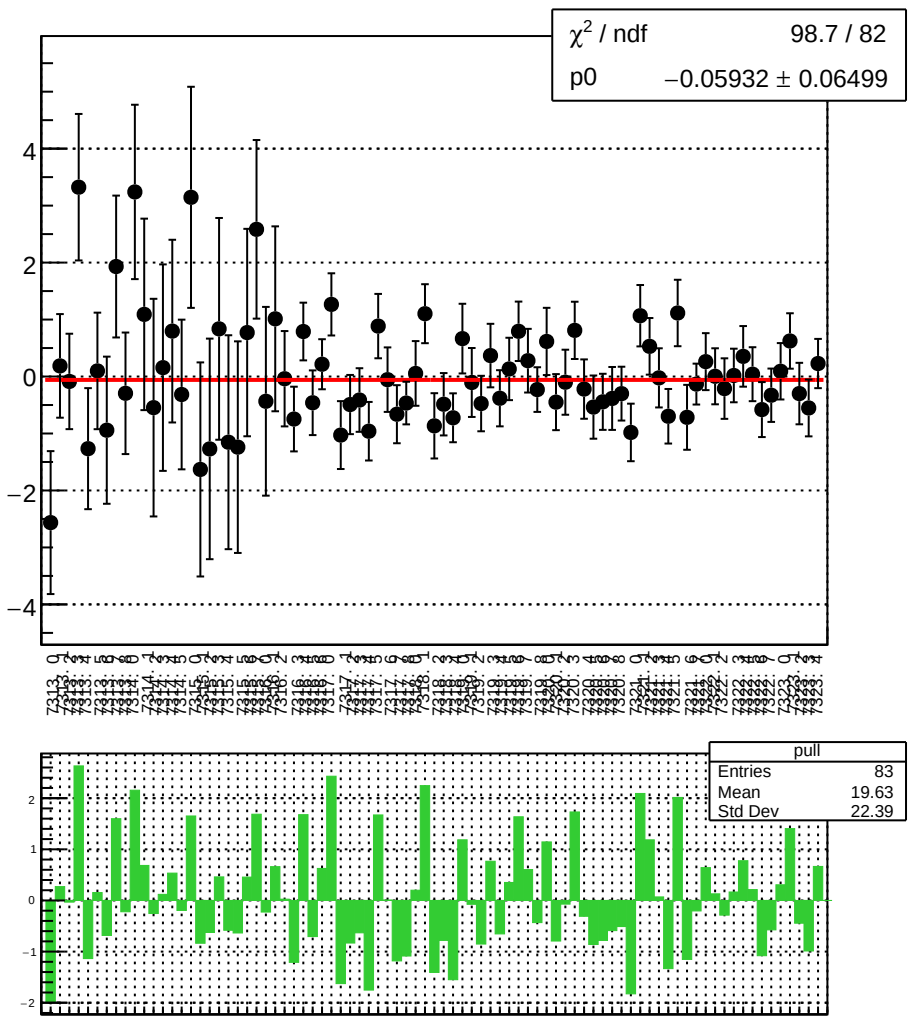

pull1D
Entries 83
Mean −0.06096
Std Dev 0.9
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

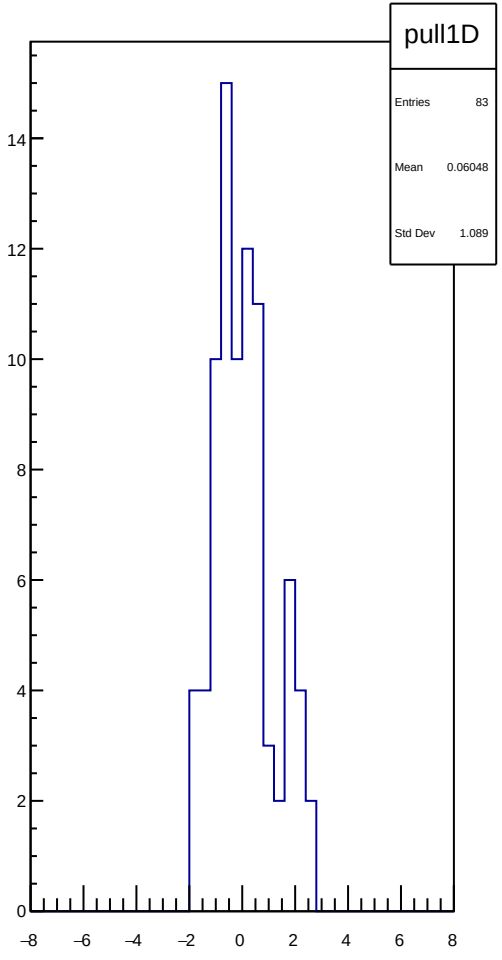

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 82
p0 1.564e−11 ± 2.435e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

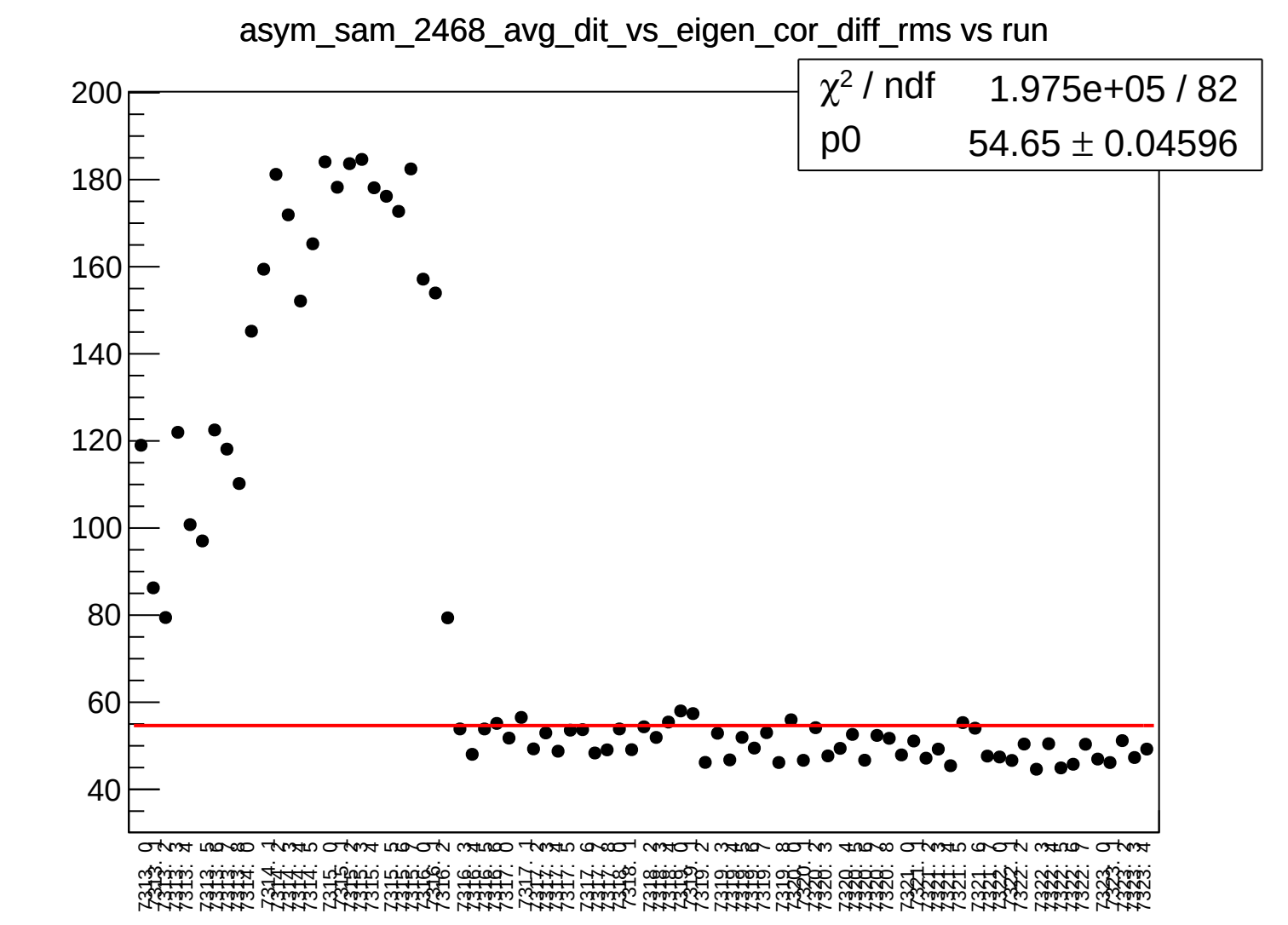

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.7 / 82
p0 −0.05932 ± 0.06499
pull
Entries 83
Mean 19.63
Std Dev 22.39

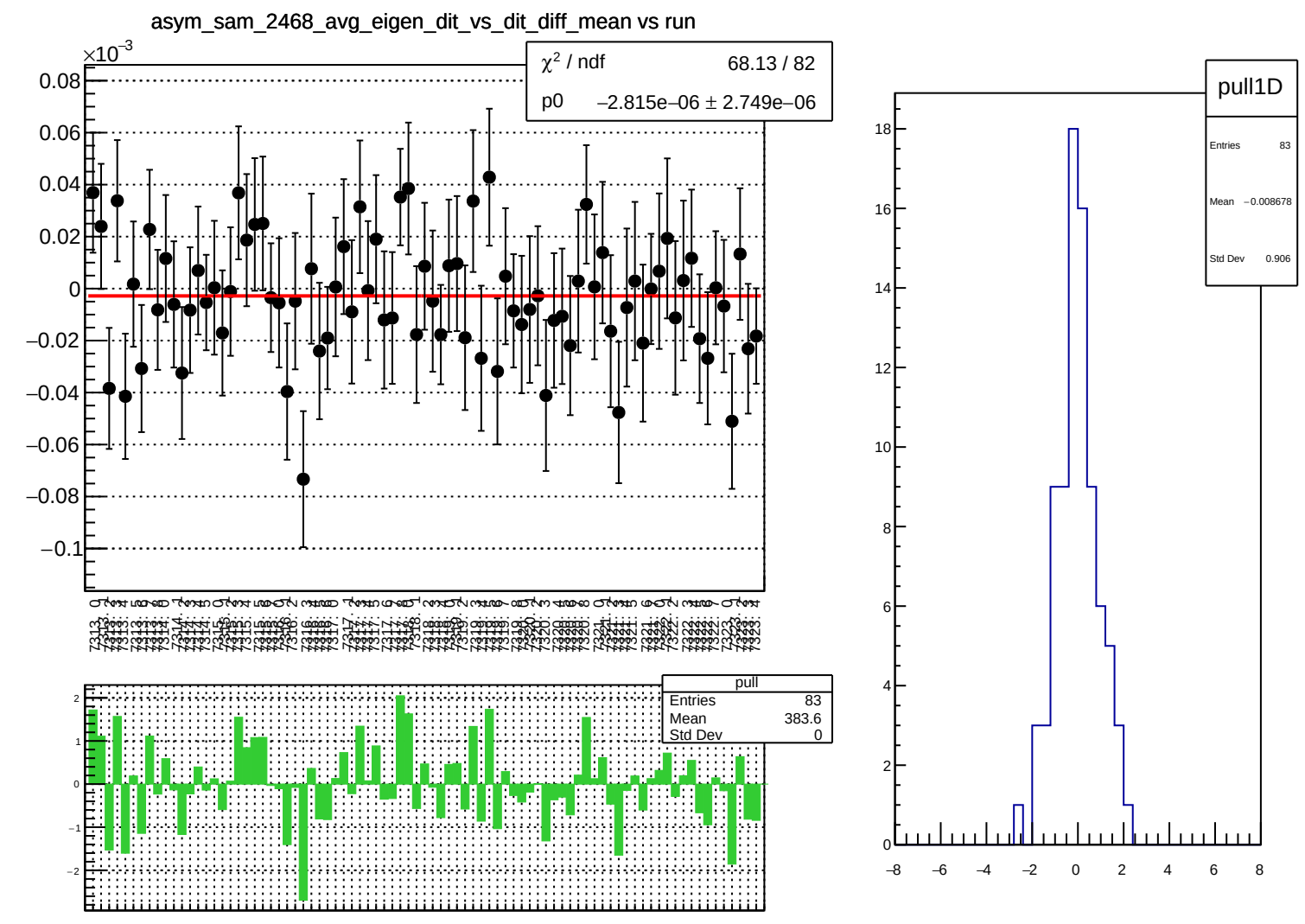

pull1D
Entries 83
Mean 0.06048
Std Dev 1.089

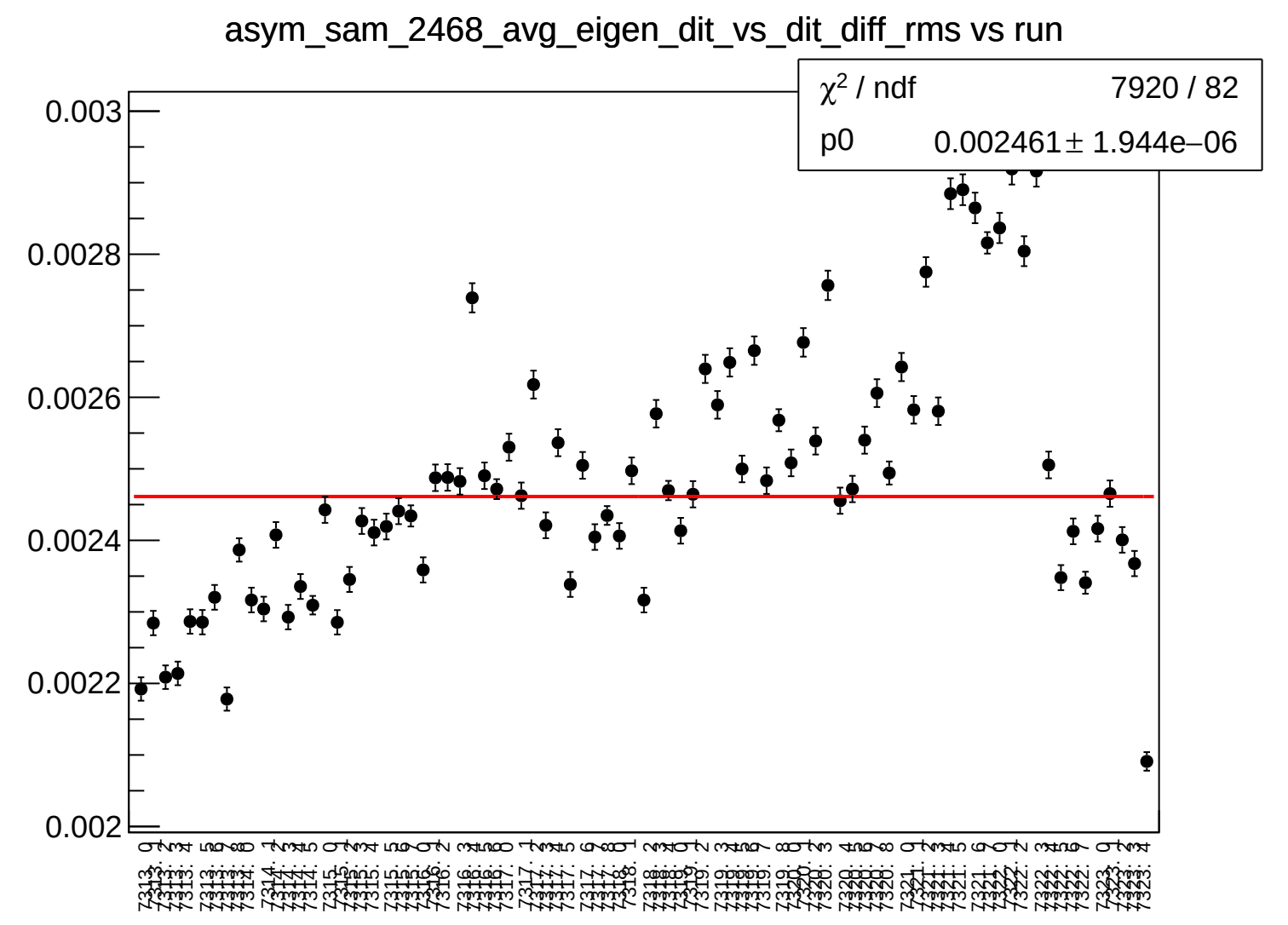

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 82
p0 54.65 ± 0.04596
200
180
160
140
120
100
80
60
40

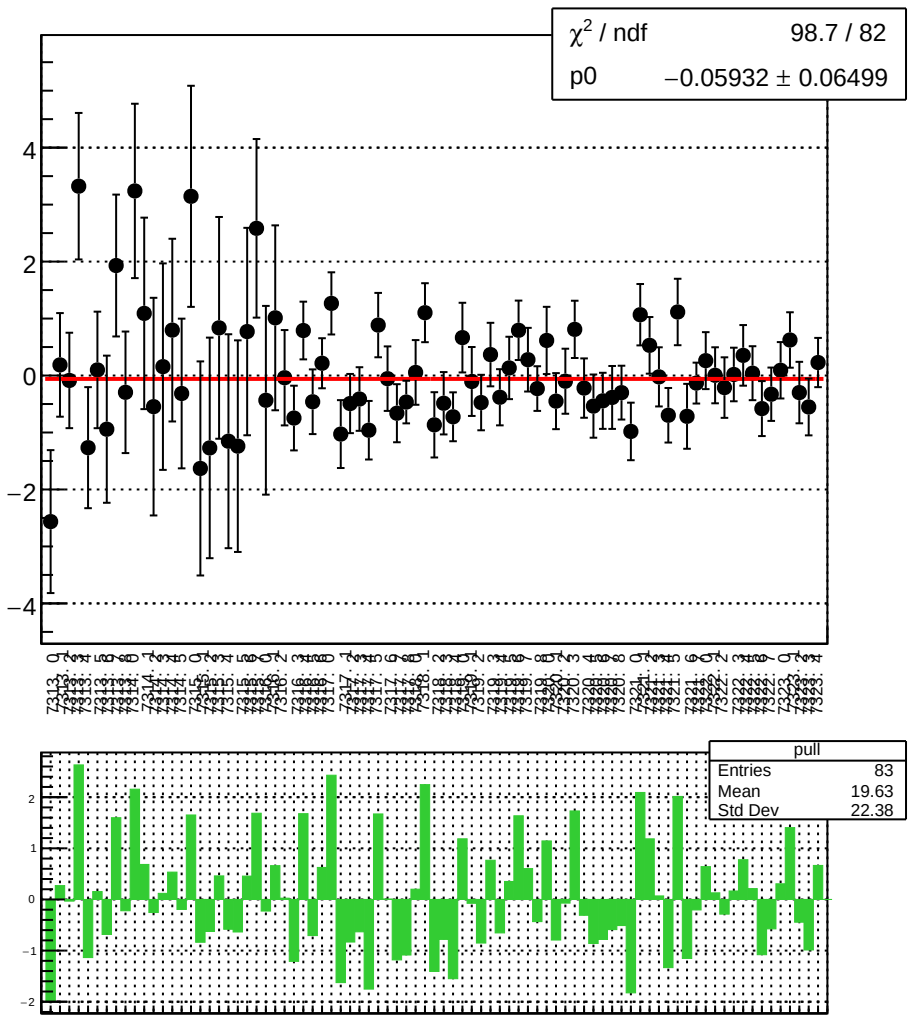

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.7 / 82
p0 −0.05932 ± 0.06499
pull
Entries 83
Mean 19.63
Std Dev 22.39

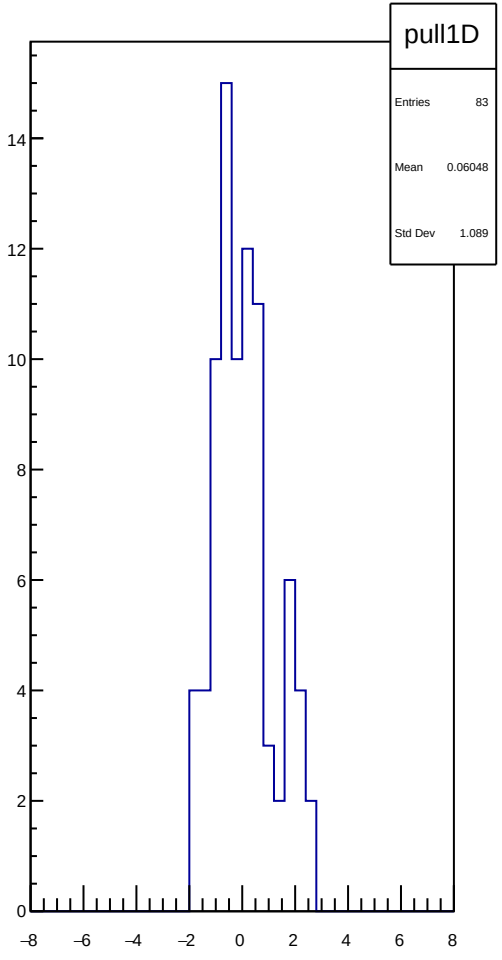

pull1D
Entries 83
Mean 0.06048
Std Dev 1.089

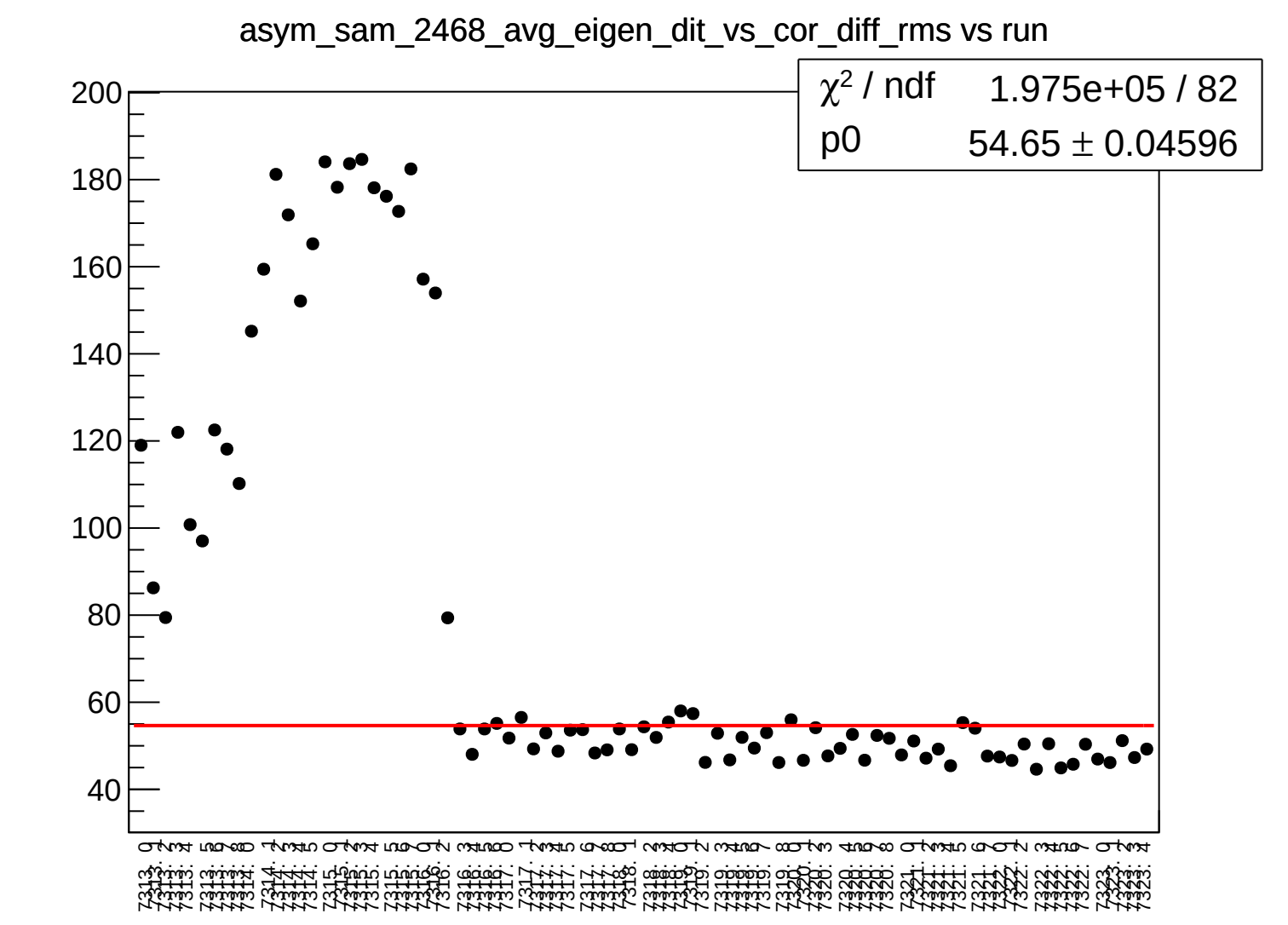

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 82
p0 54.65 ± 0.04596
200
180
160
140
120
100
80
60
40

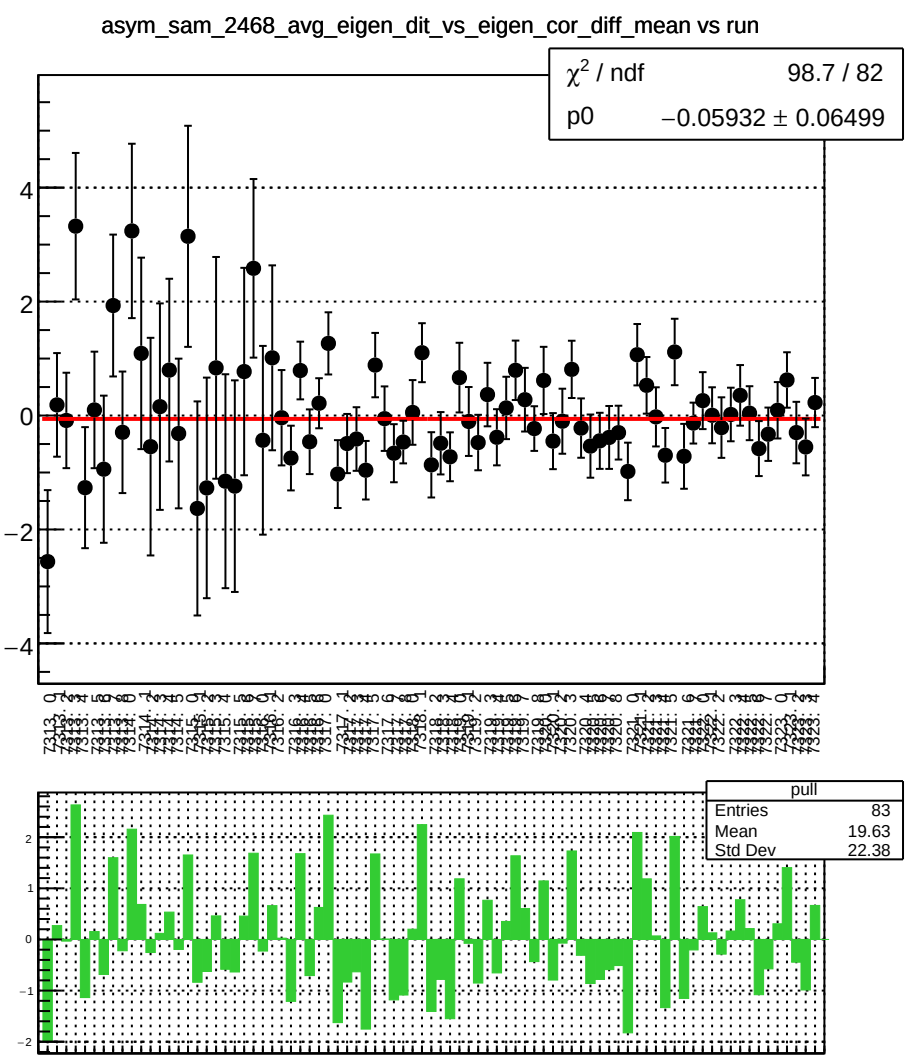

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.13 / 82
p0 −2.815e−06 ± 2.749e−06
pull
Entries 83
Mean 383.6
Std Dev 0
pull1D
Entries 83
Mean −0.008678
Std Dev 0.906

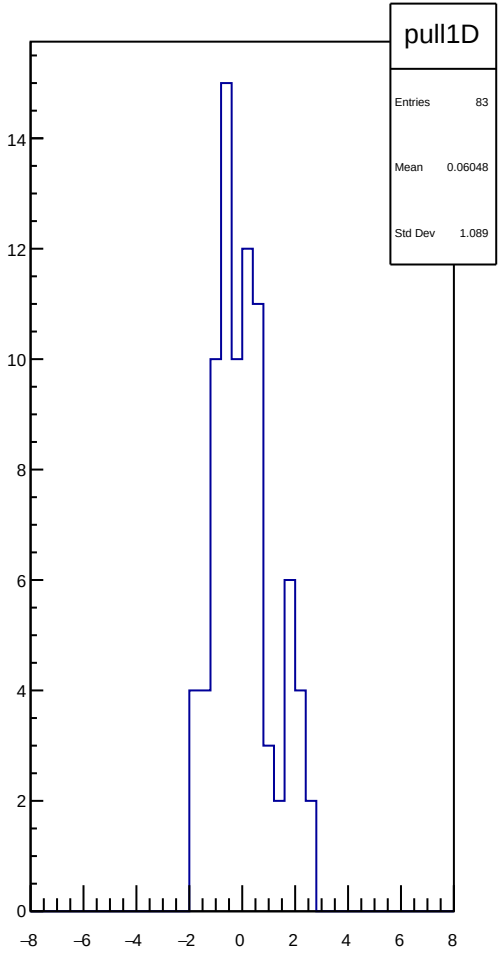

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7920 / 82
p0 0.002461 ± 1.944e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

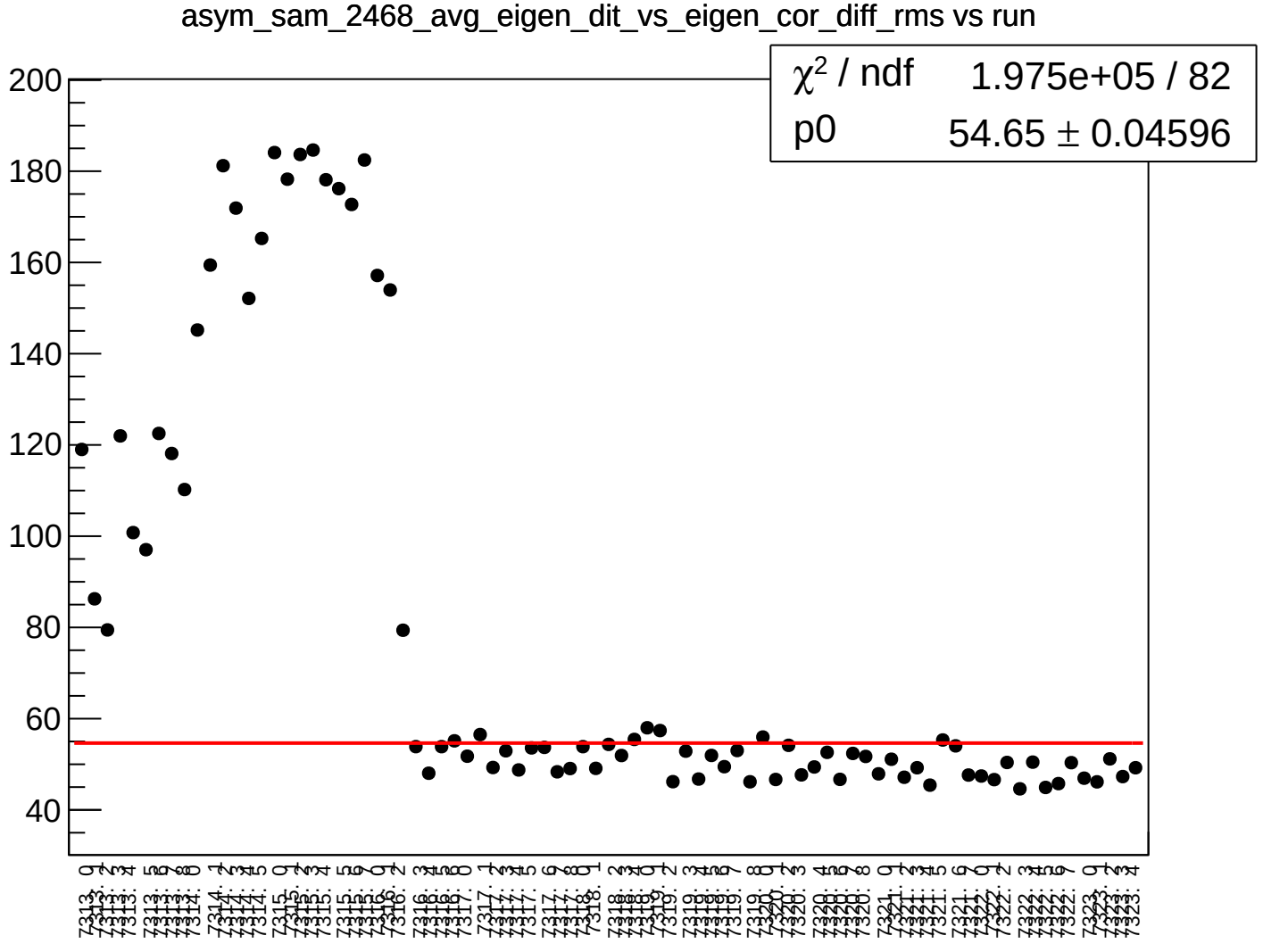

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.7 / 82
p0 −0.05932 ± 0.06499
pull
Entries 83
Mean 19.63
Std Dev 22.38

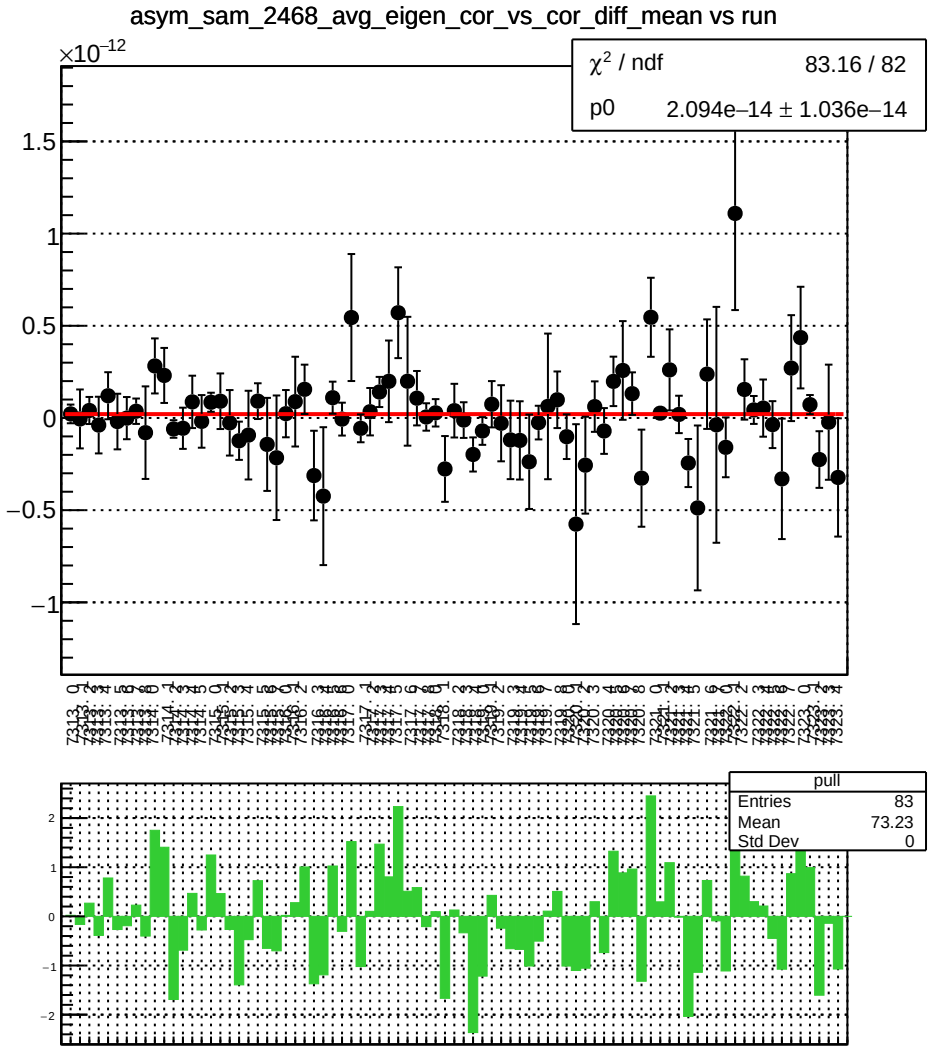

pull1D
Entries 83
Mean 0.06048
Std Dev 1.089

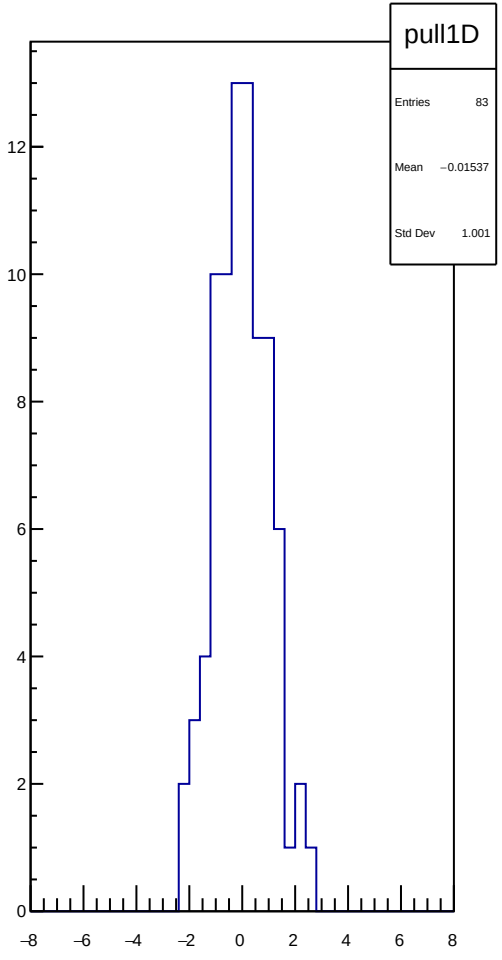

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 82
p0 54.65 ± 0.04596
200
180
160
140
120
100
80
60
40

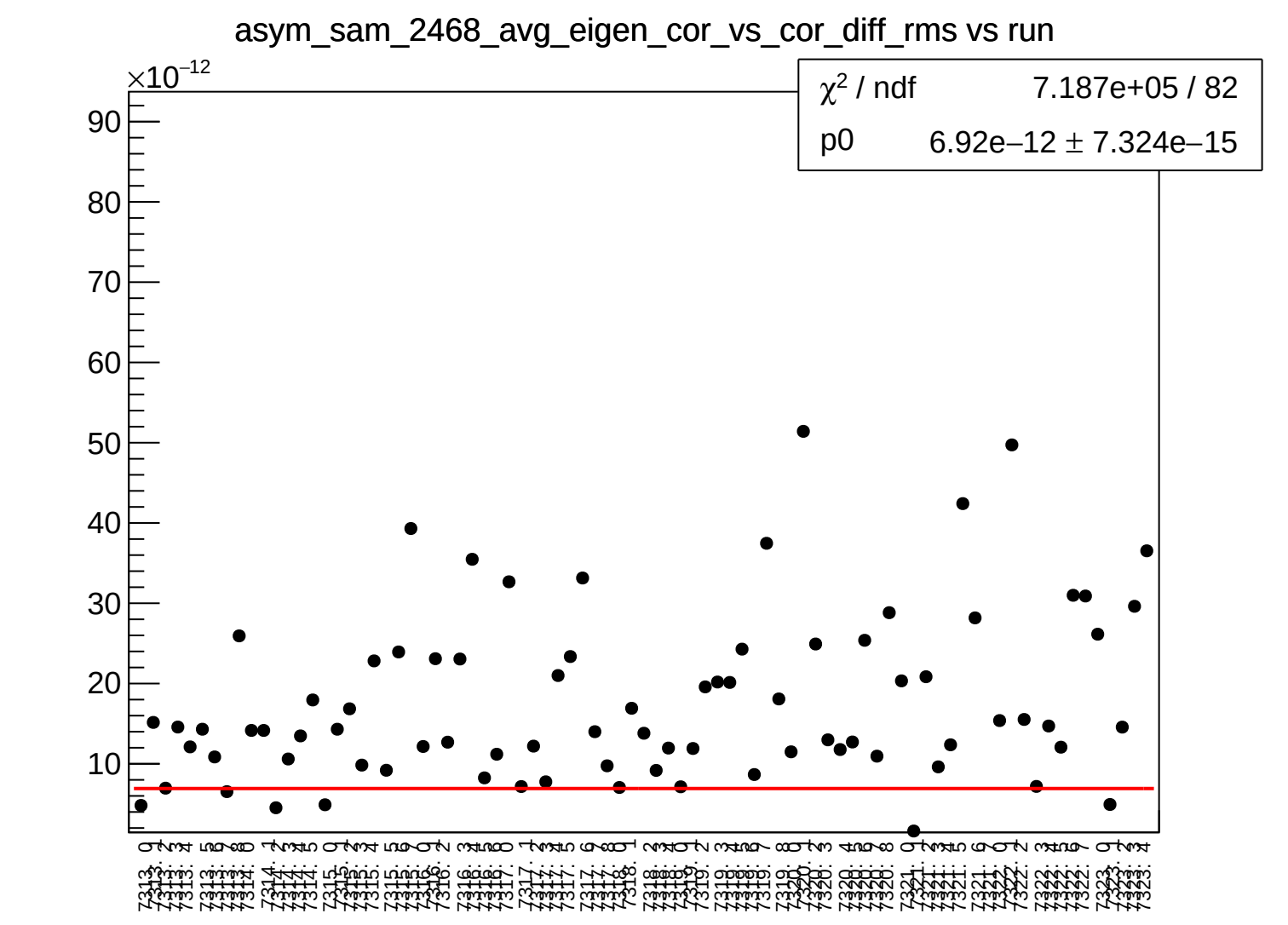

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.7 / 82
p0 −0.05932 ± 0.06499
pull
Entries 83
Mean 19.63
Std Dev 22.38

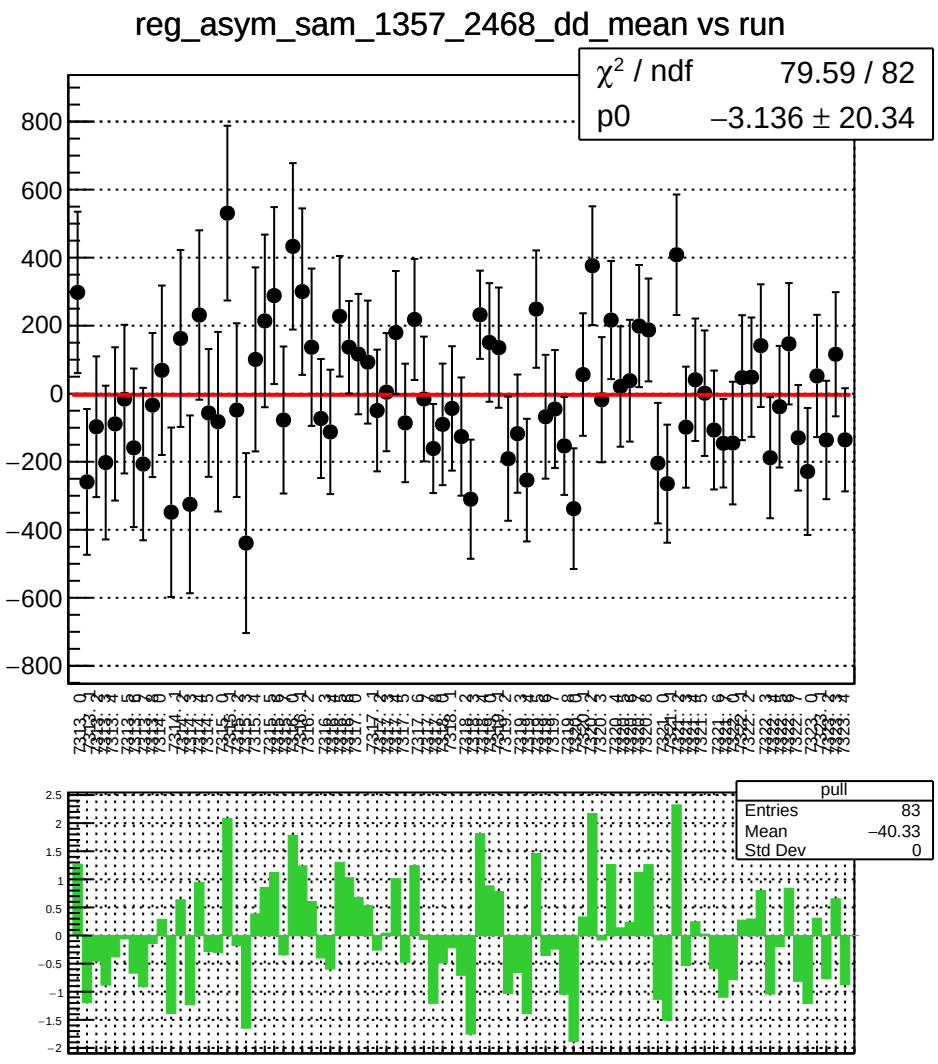

pull1D
Entries 83
Mean 0.06048
Std Dev 1.089

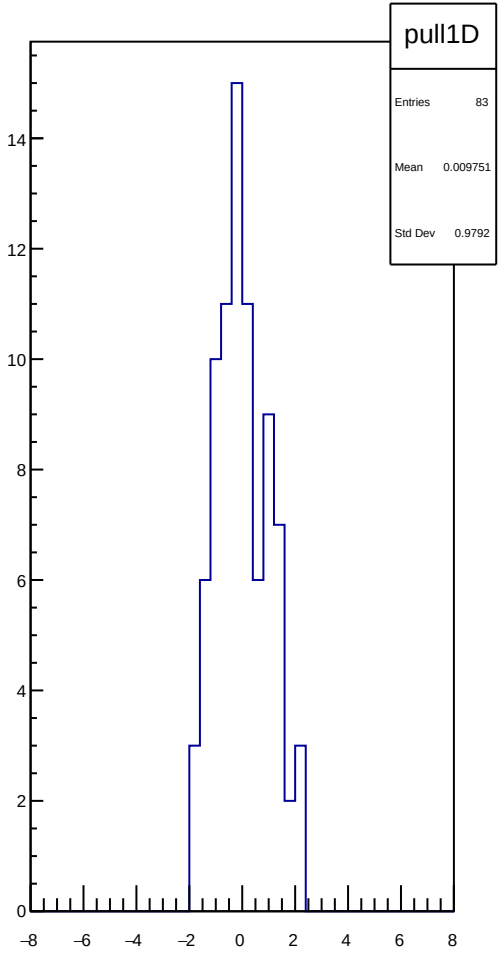

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 82
p0 54.65 ± 0.04596
200
180
160
140
120
100
80
60
40

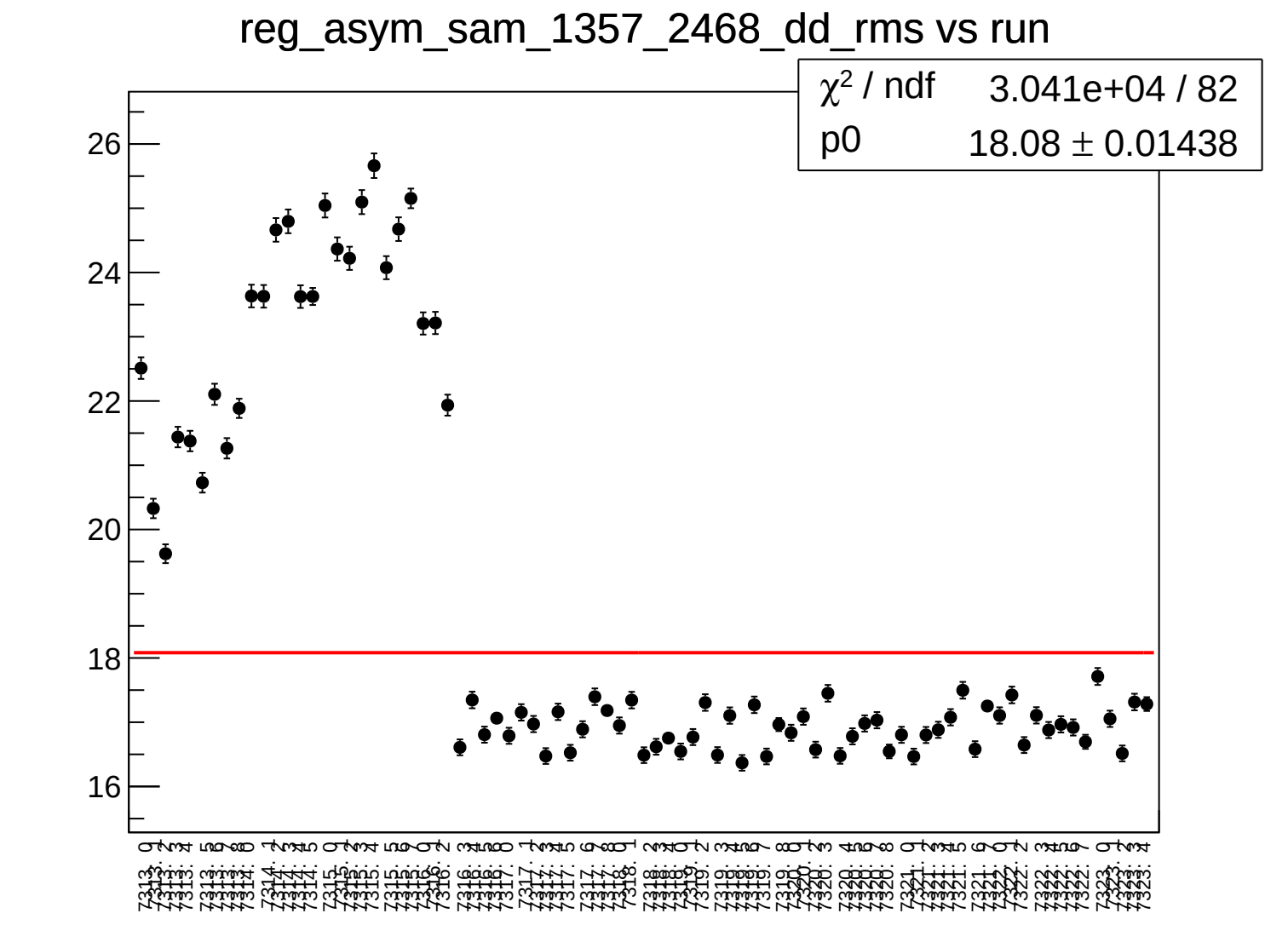

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.16 / 82
p0 2.094e−14 ± 1.036e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 83
Mean 73.23
Std Dev 0
2
1
0
−1
−2

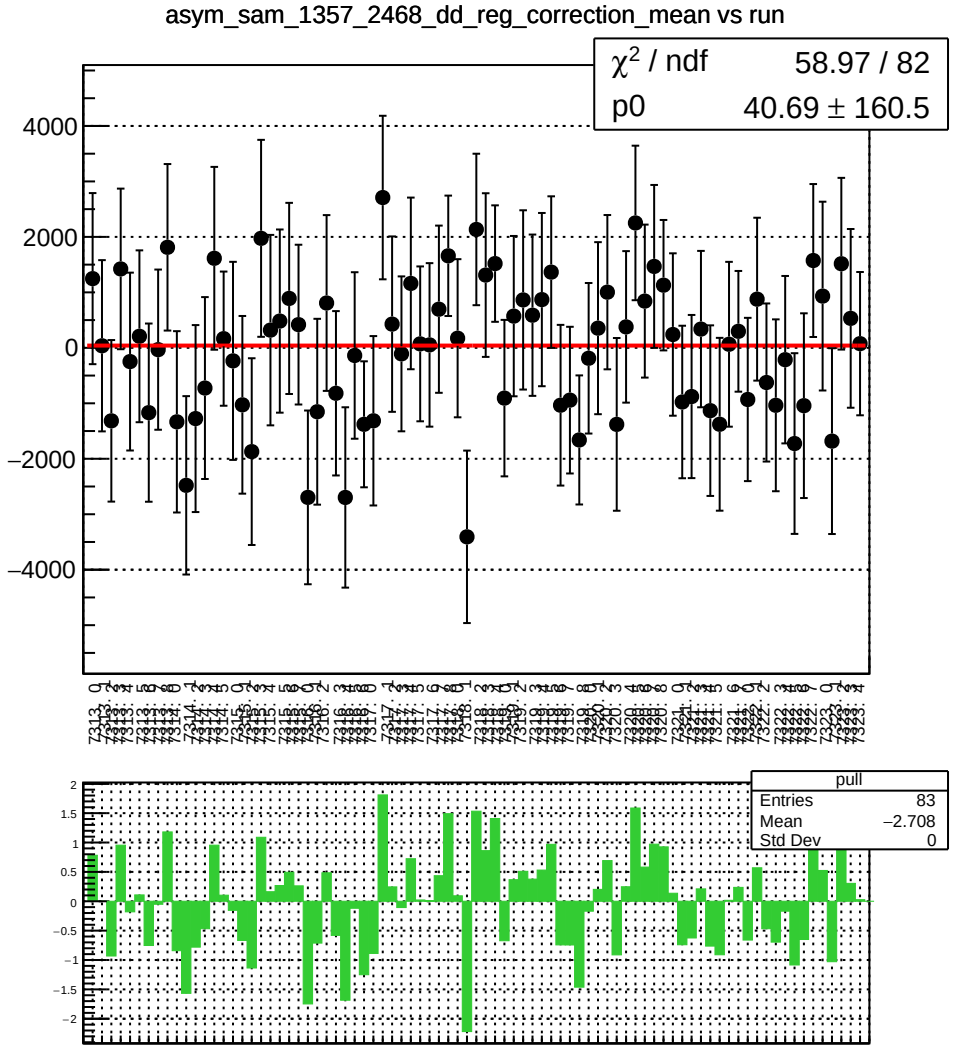

pull1D
Entries 83
Mean −0.01537
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

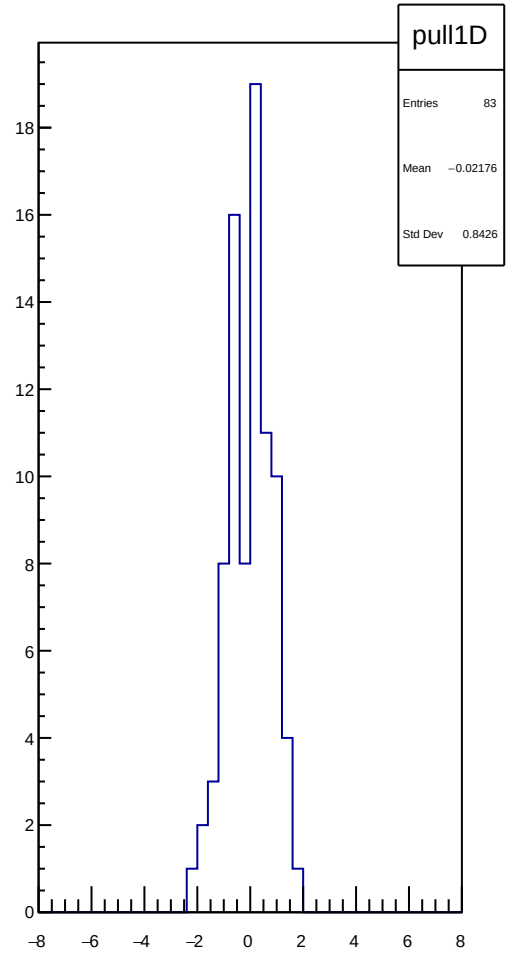

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.187e+05 / 82
p0 6.92e−12 ± 7.324e−15
90
80
70
60
50
40
30
20
10

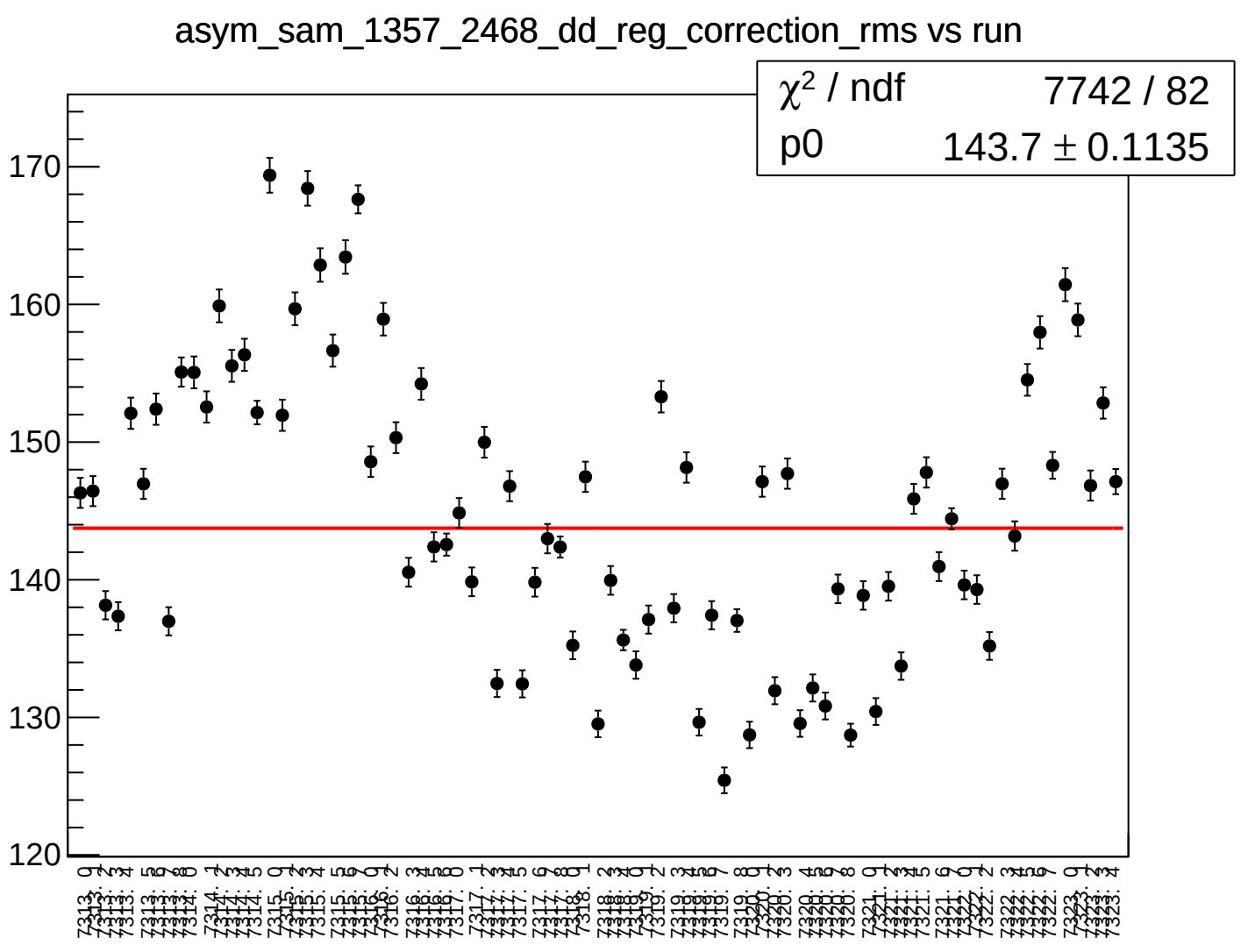

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.59 / 82
p0 −3.136 ± 20.34
pull
Entries 83
Mean −40.33
Std Dev 0

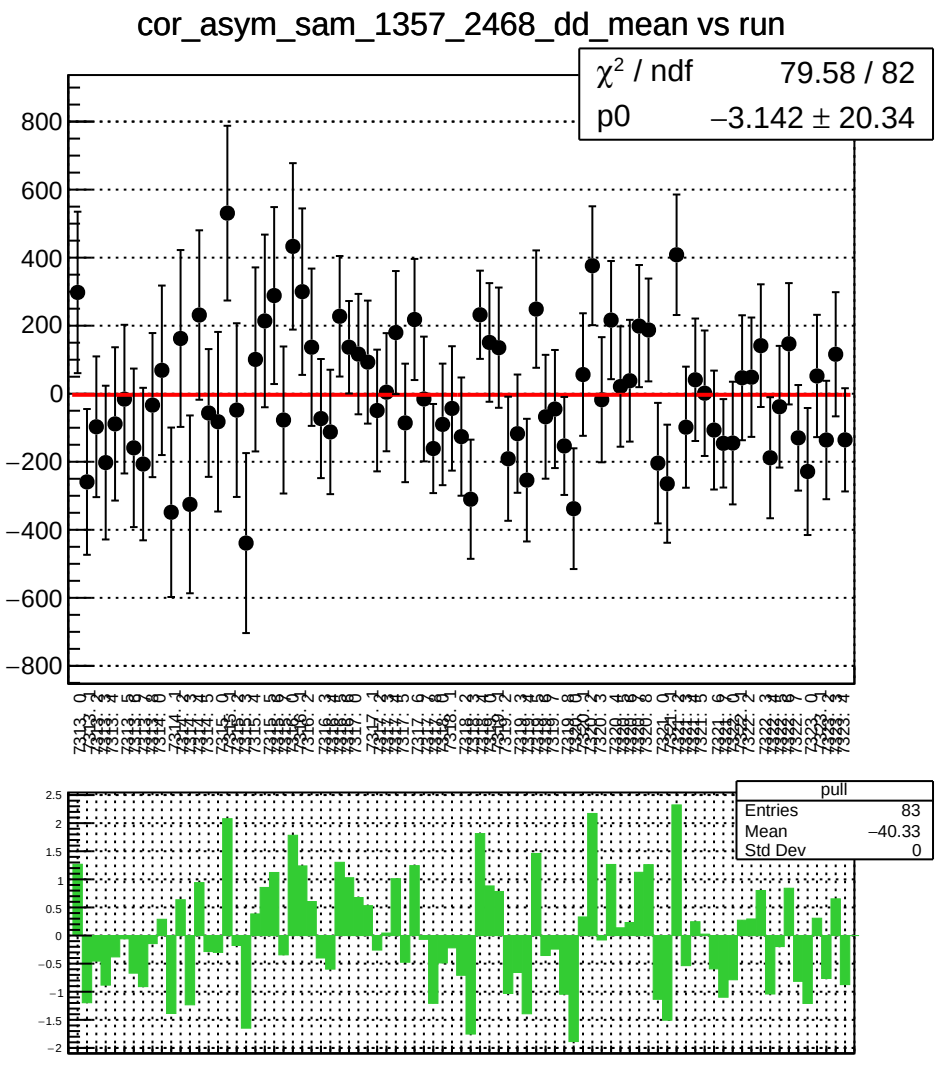

pull1D
Entries 83
Mean 0.009751
Std Dev 0.9792

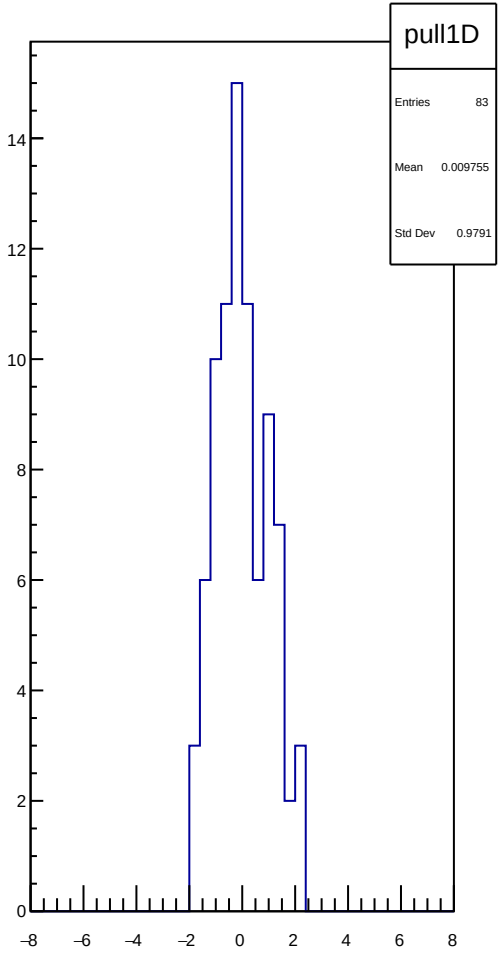

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.041e+04 / 82
p0 18.08 ± 0.01438
26
24
22
20
18
16

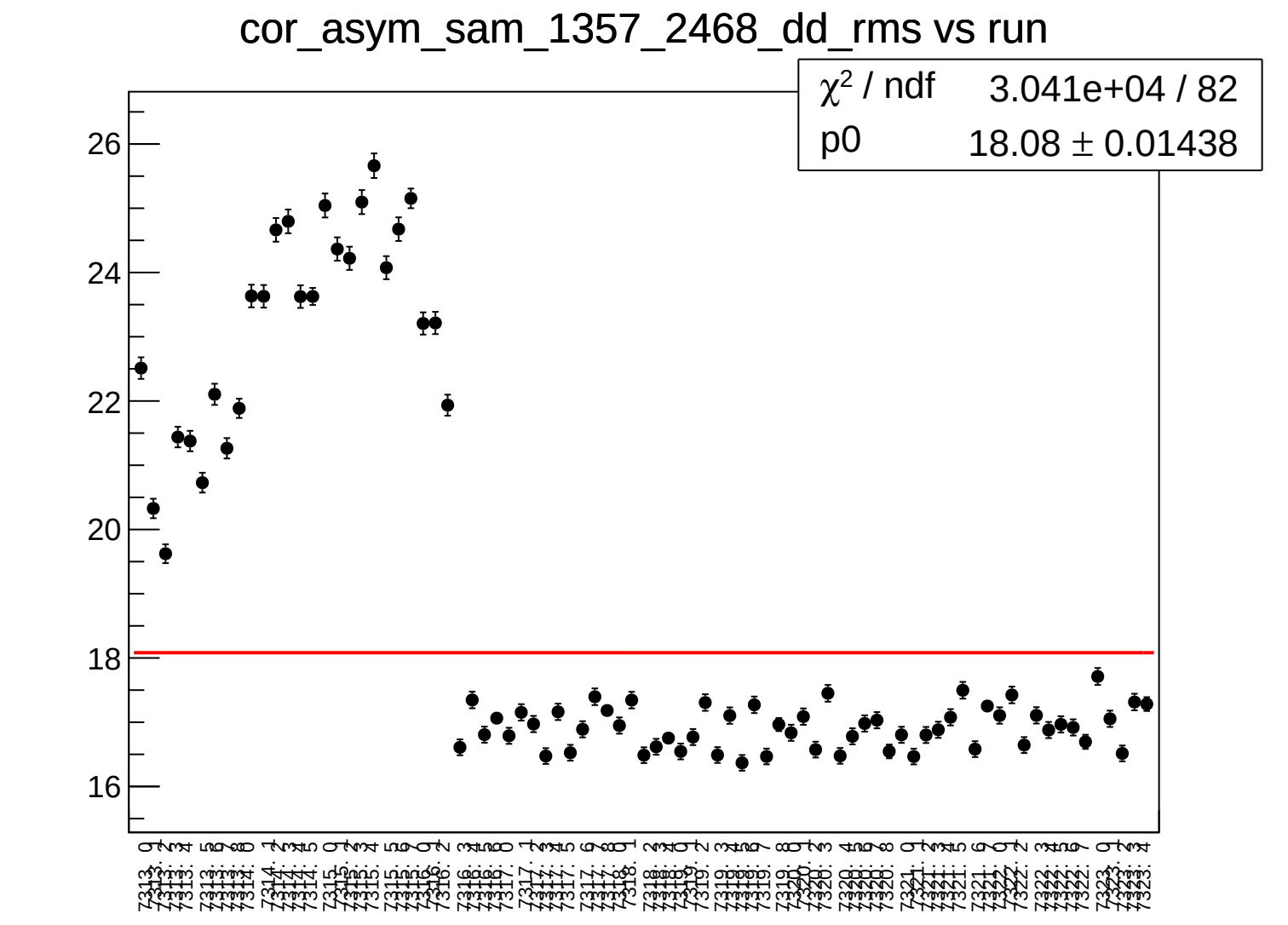

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 58.97 / 82
p0 40.69 ± 160.5
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −2.708
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

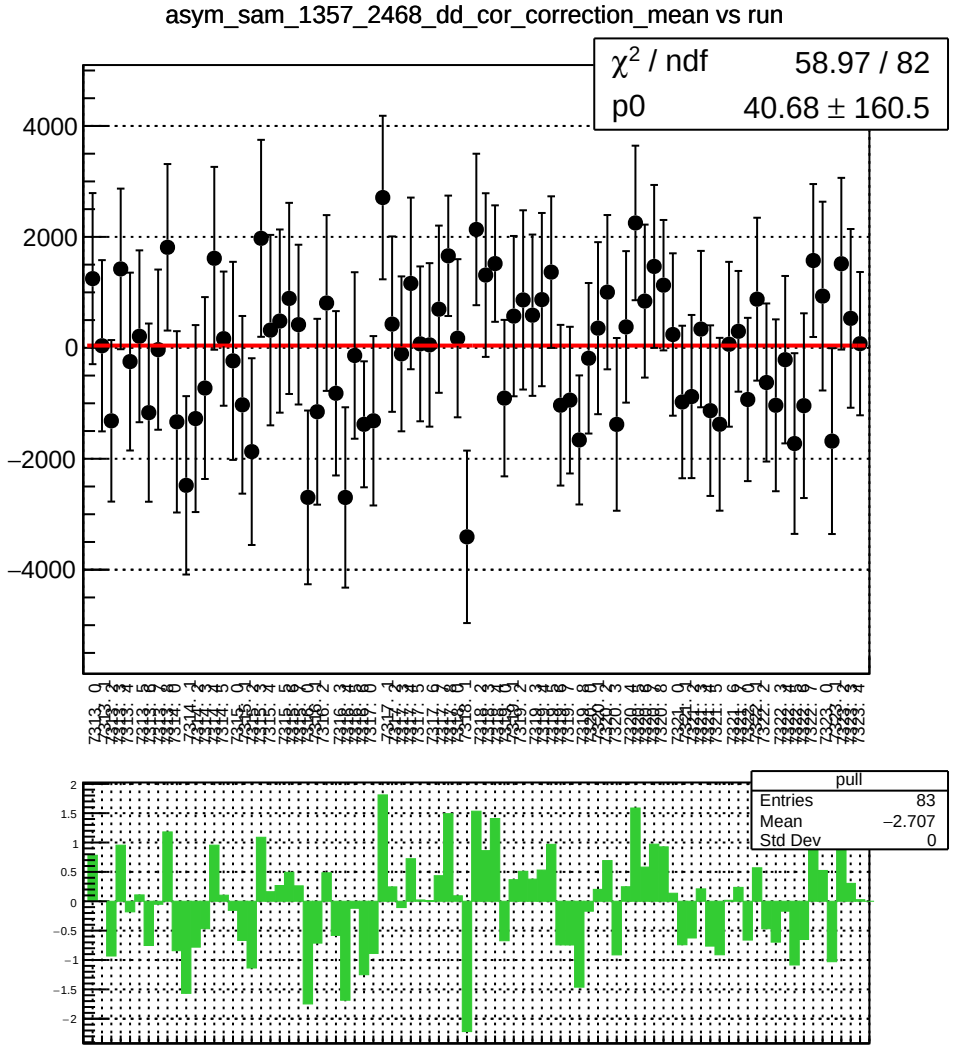

pull1D
Entries 83
Mean −0.02176
Std Dev 0.8426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

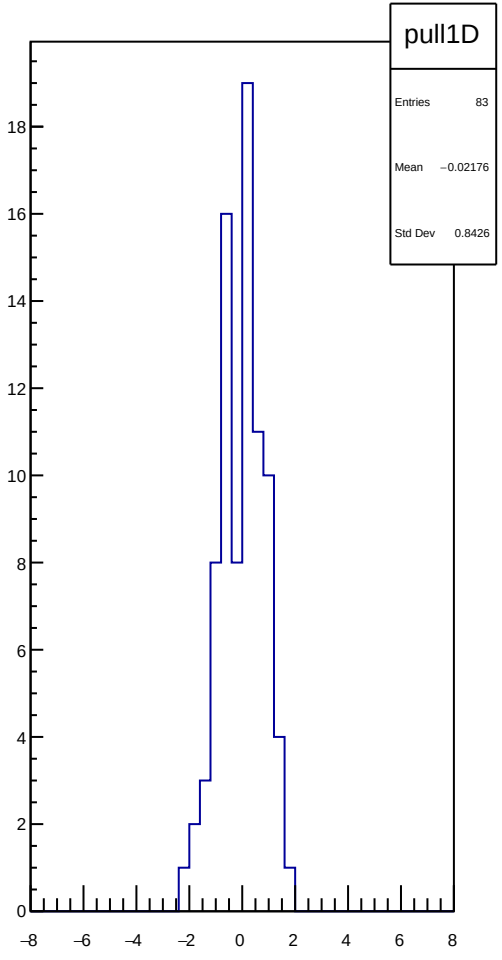

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7742 / 82
p0 143.7 ± 0.1135
170
160
150
140
130
120

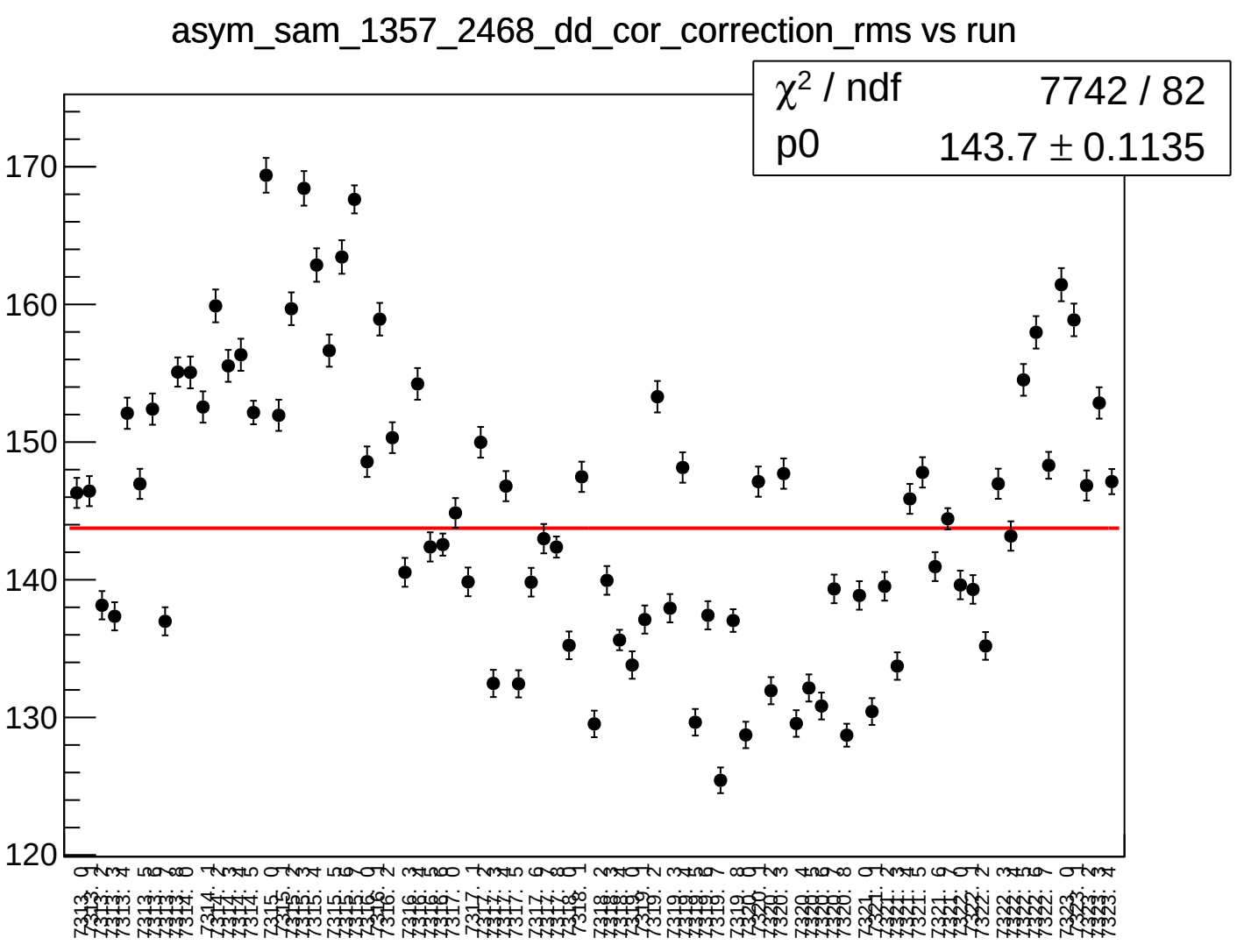

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.58 / 82
p0 −3.142 ± 20.34
pull
Entries 83
Mean −40.33
Std Dev 0

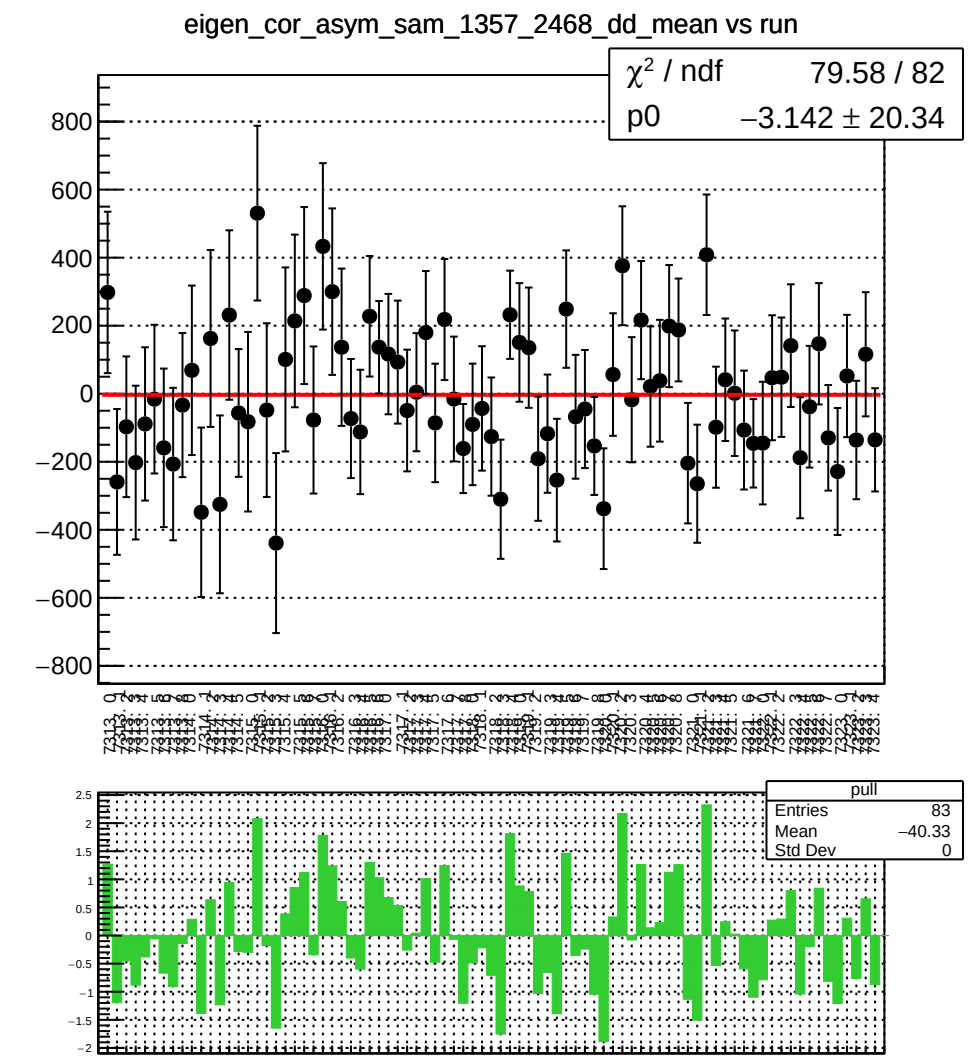

pull1D
Entries 83
Mean 0.009755
Std Dev 0.9791

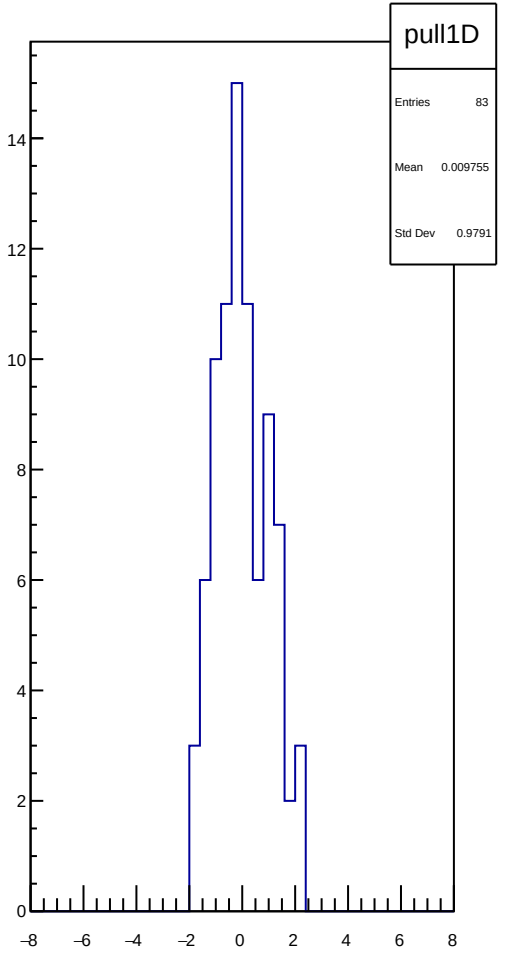

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.041e+04 / 82
p0 18.08 ± 0.01438
26
24
22
20
18
16

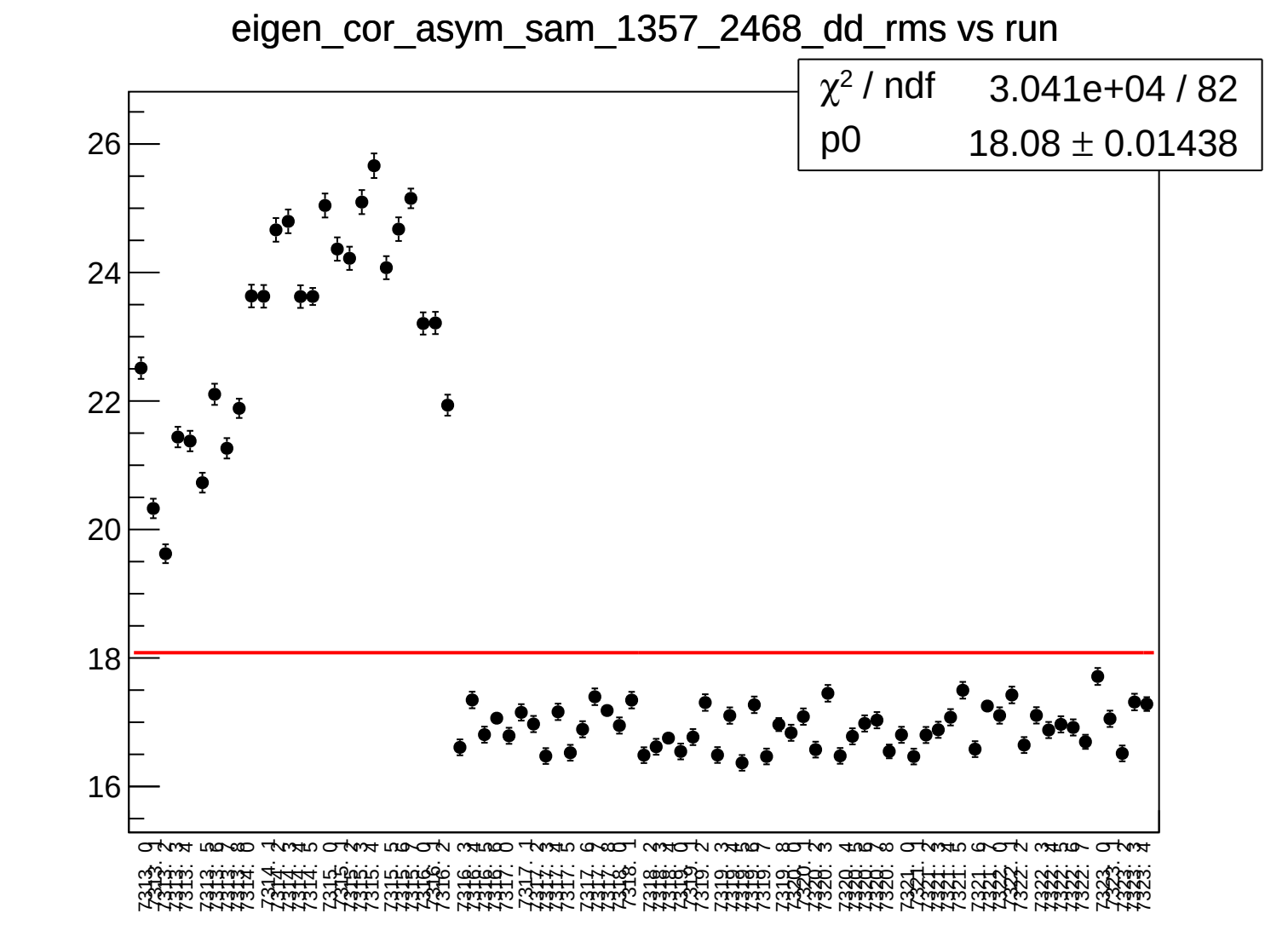

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 58.97 / 82
p0 40.68 ± 160.5
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −2.707
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

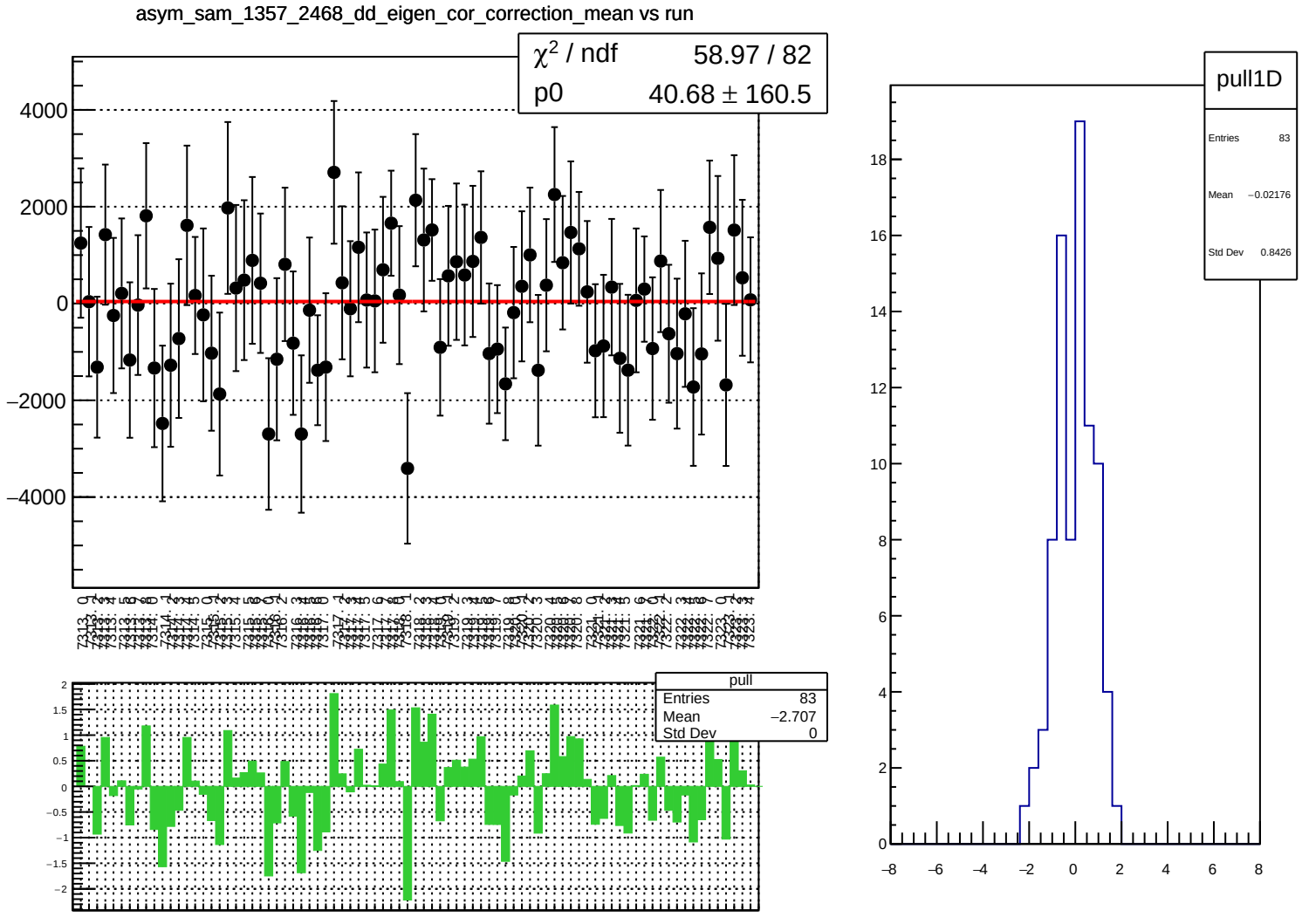

pull1D
Entries 83
Mean −0.02176
Std Dev 0.8426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

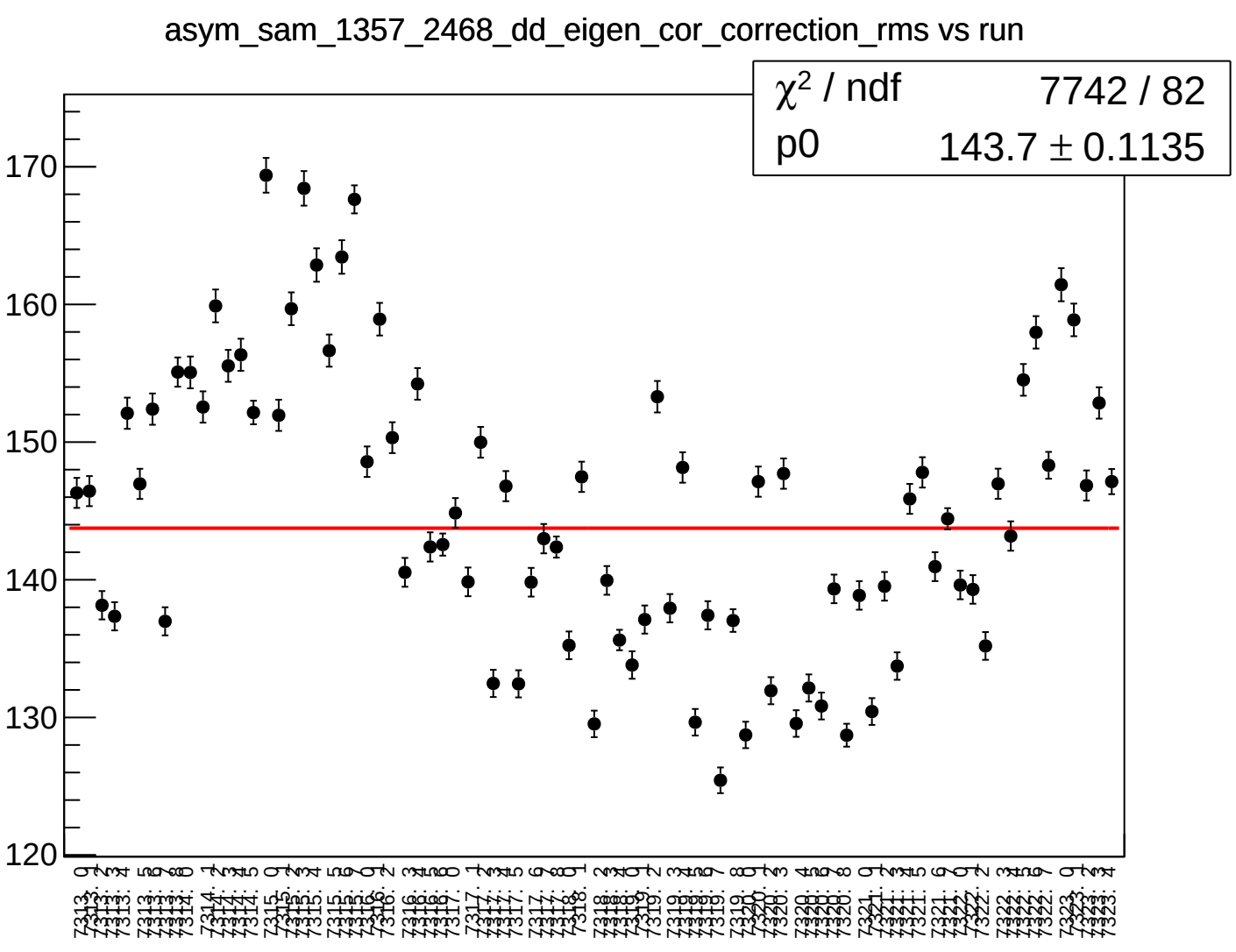

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7742 / 82
p0 143.7 ± 0.1135
170
160
150
140
130
120

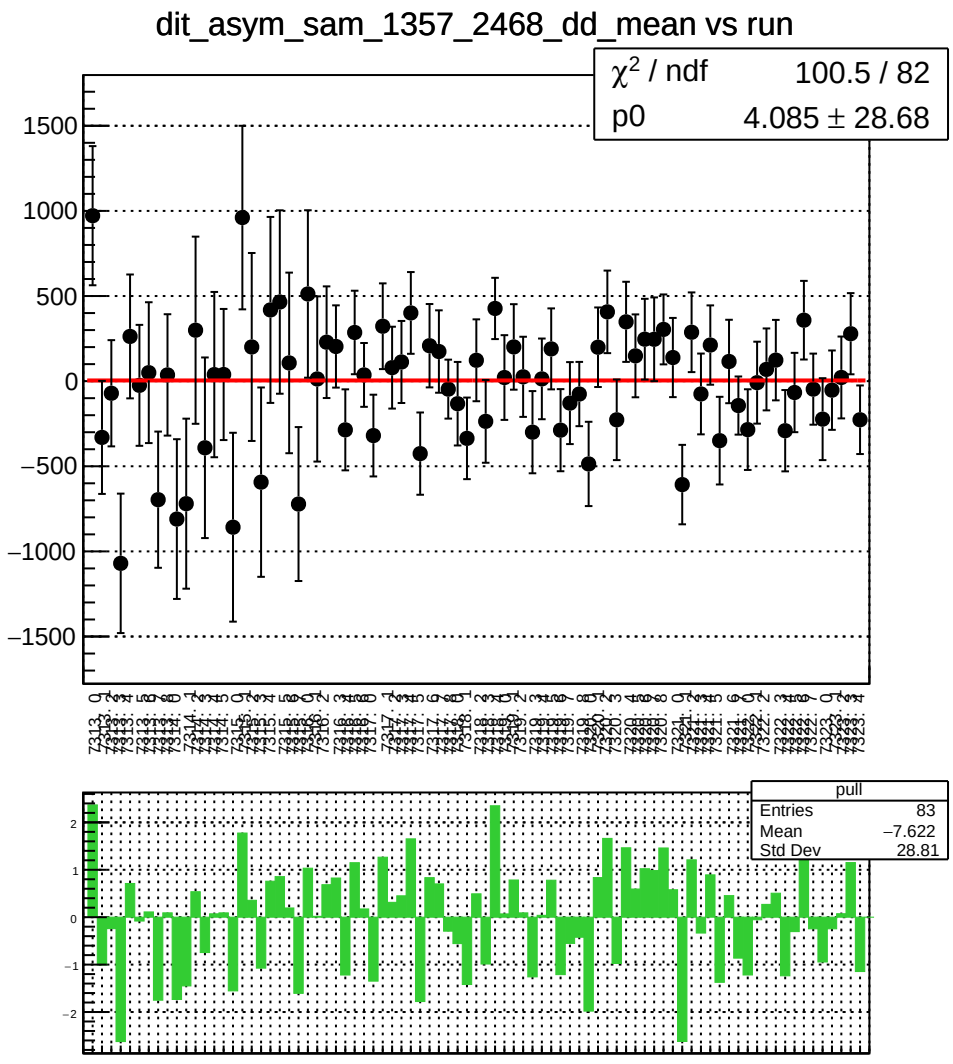

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.58 / 82
p0 −3.142 ± 20.34
pull
Entries 83
Mean −40.33
Std Dev 0

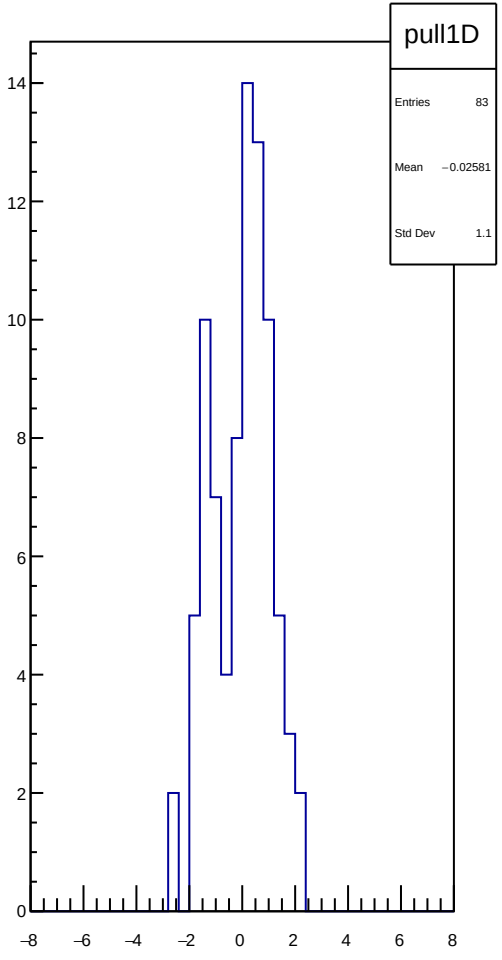

pull1D
Entries 83
Mean 0.009755
Std Dev 0.9791

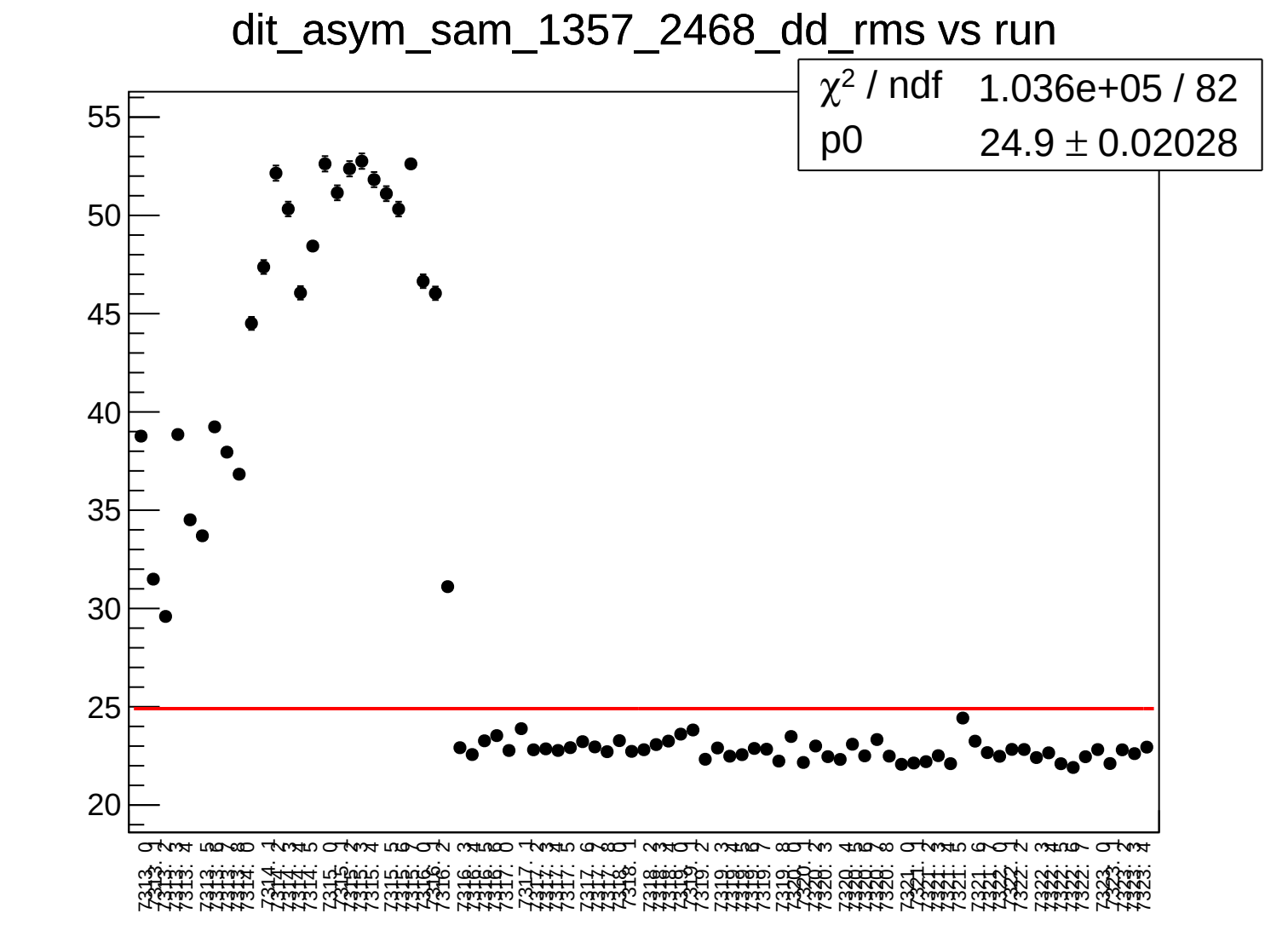

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.041e+04 / 82
p0 18.08 ± 0.01438
26
24
22
20
18
16

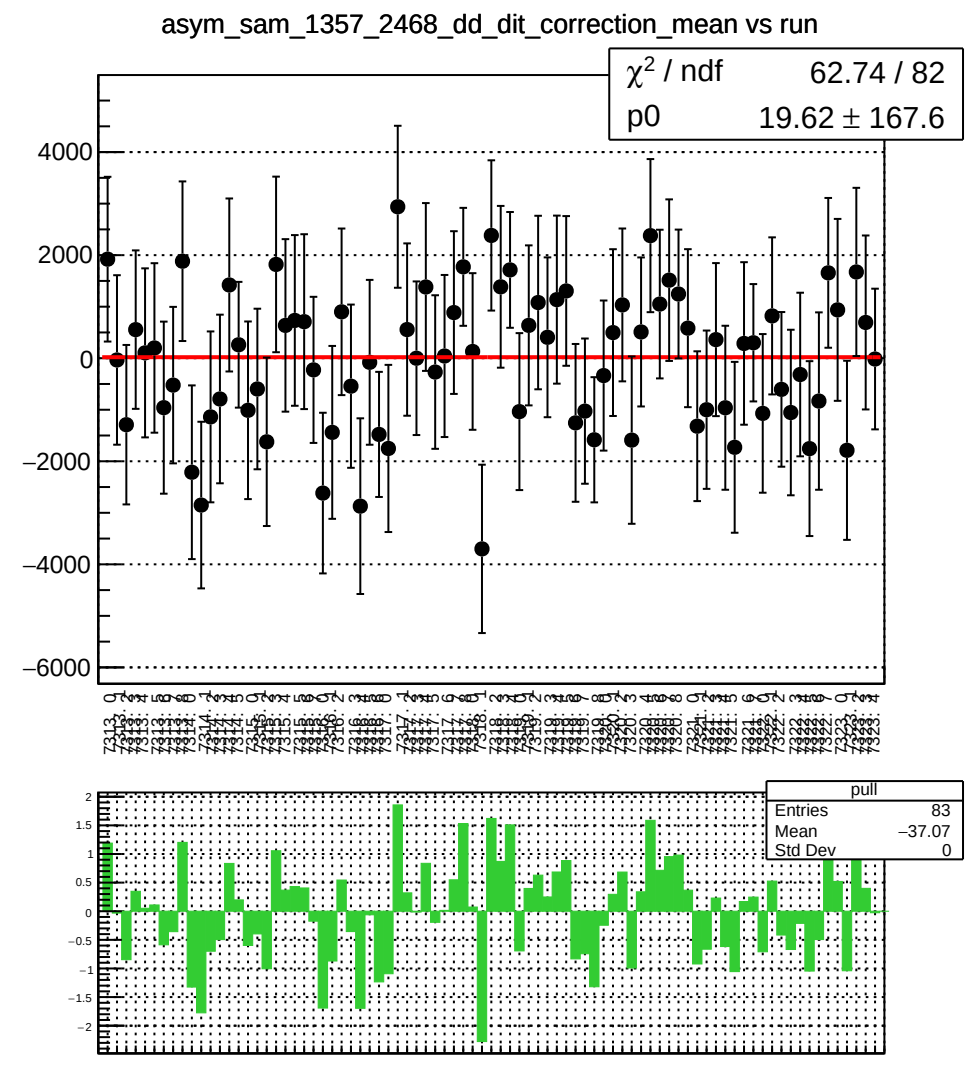

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 58.97 / 82
p0 40.68 ± 160.5
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −2.707
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean −0.02176
Std Dev 0.8426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

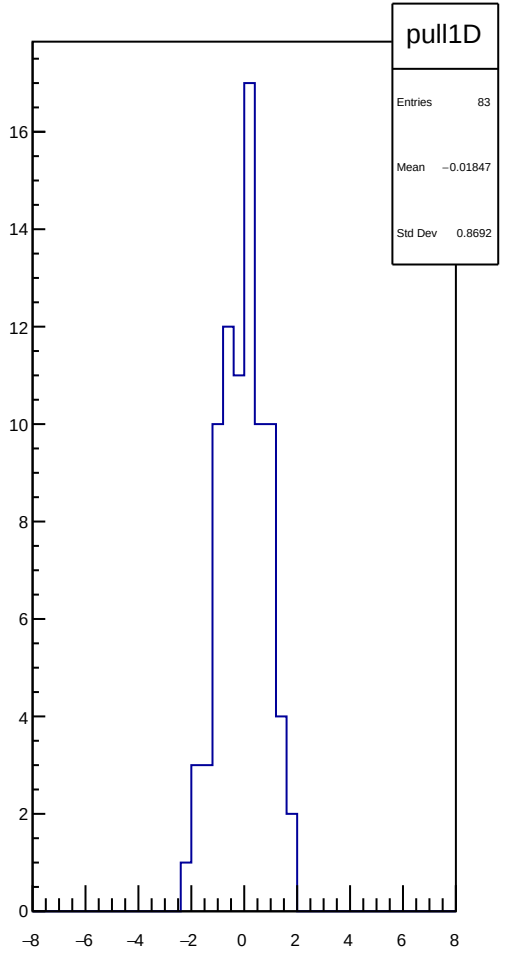

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7742 / 82
p0 143.7 ± 0.1135
170
160
150
140
130
120

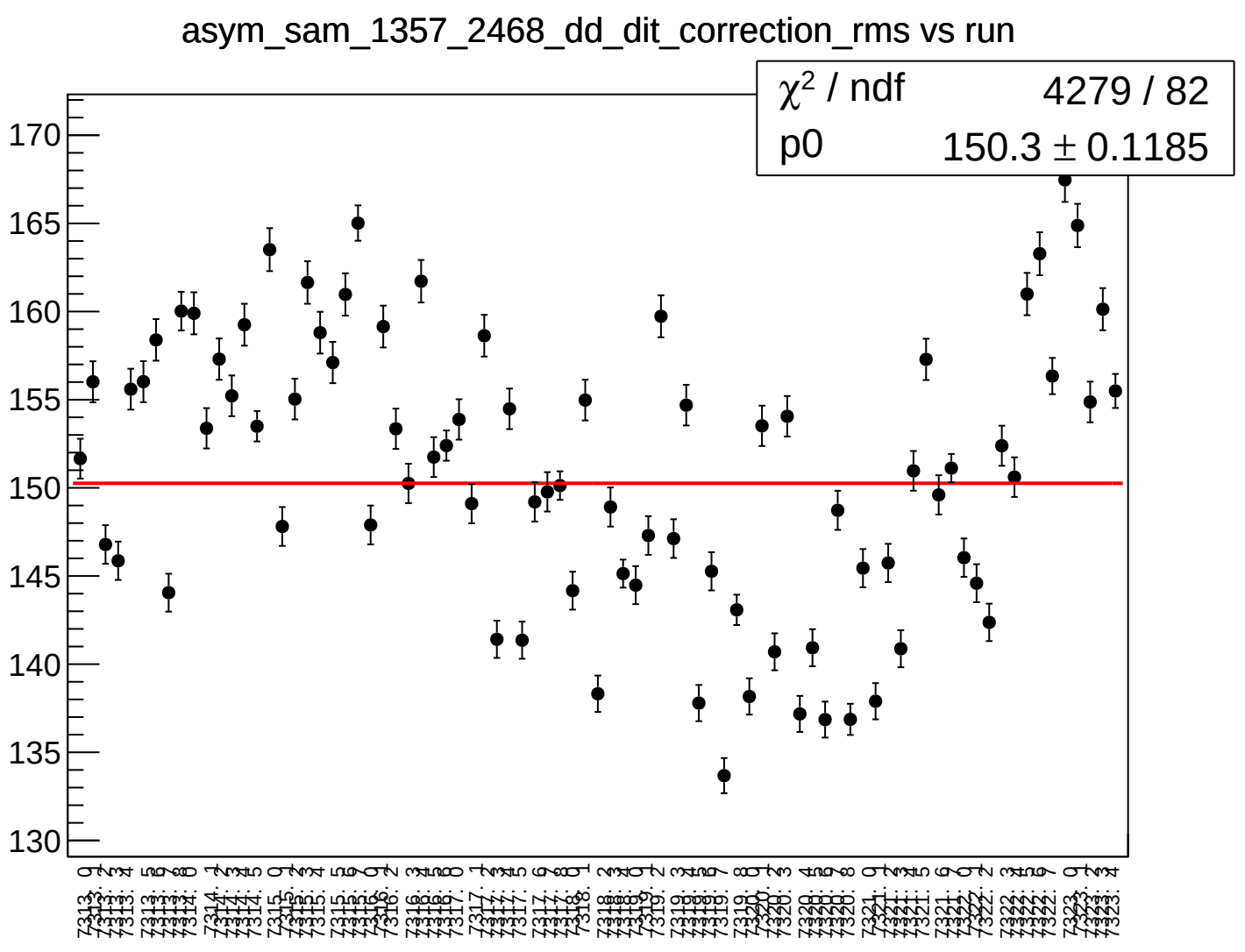

dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 100.5 / 82
p0 4.085 ± 28.68
pull
Entries 83
Mean −7.622
Std Dev 28.81

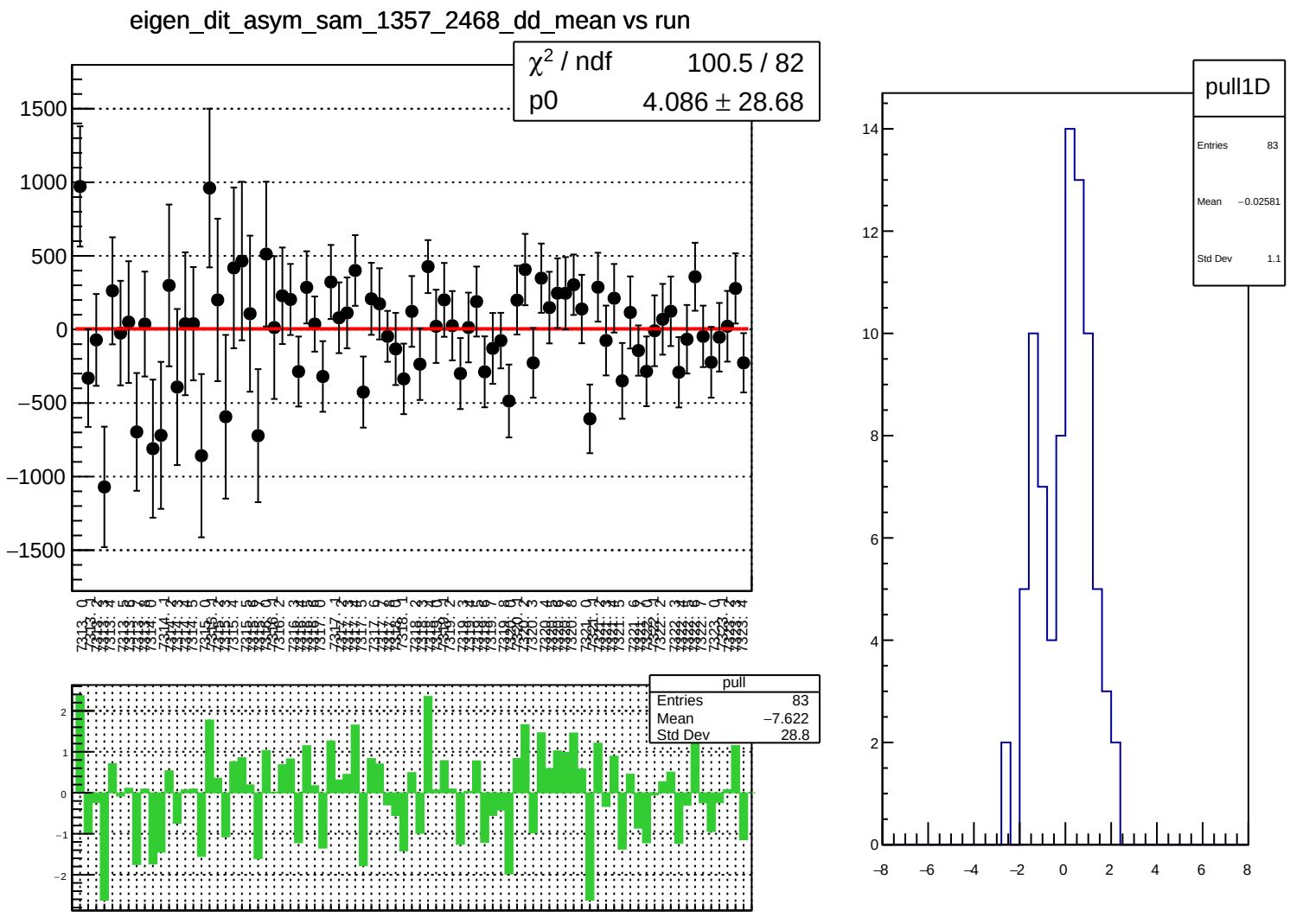

pull1D
Entries 83
Mean −0.02581
Std Dev 1.1

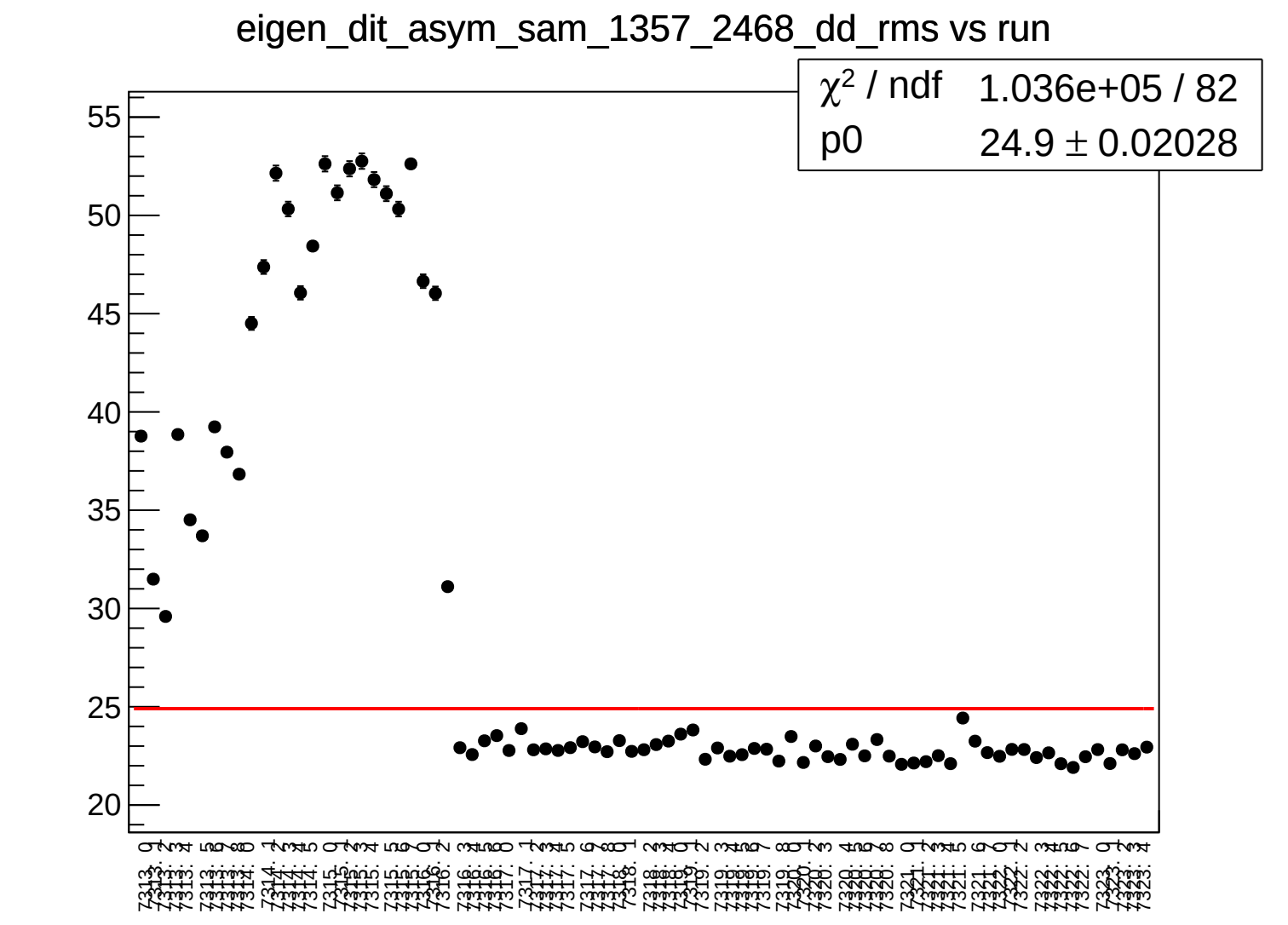

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.036e+05 / 82
p0 24.9 ± 0.02028
55
50
45
40
35
30
25
20

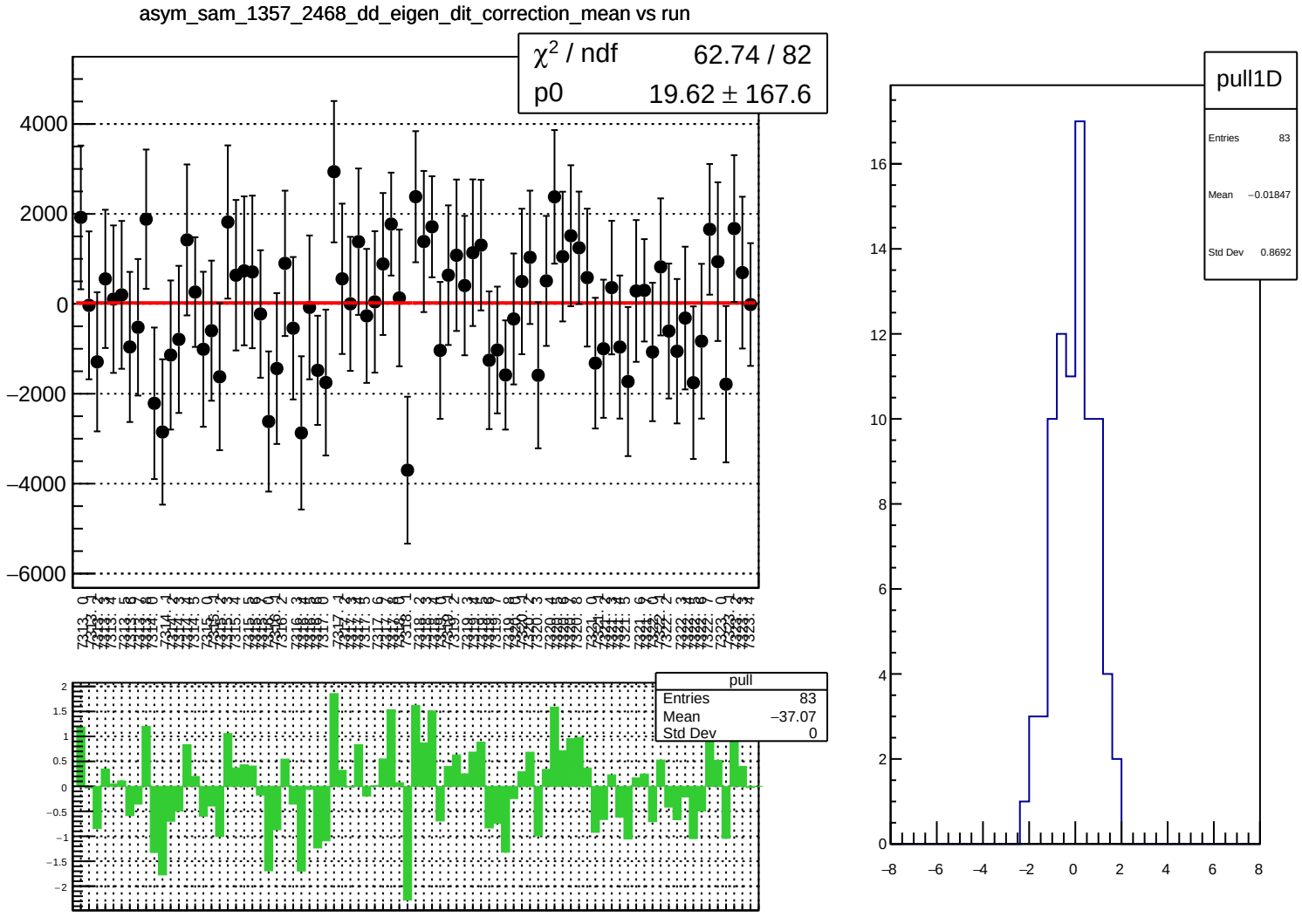

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 62.74 / 82
p0 19.62 ± 167.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −37.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

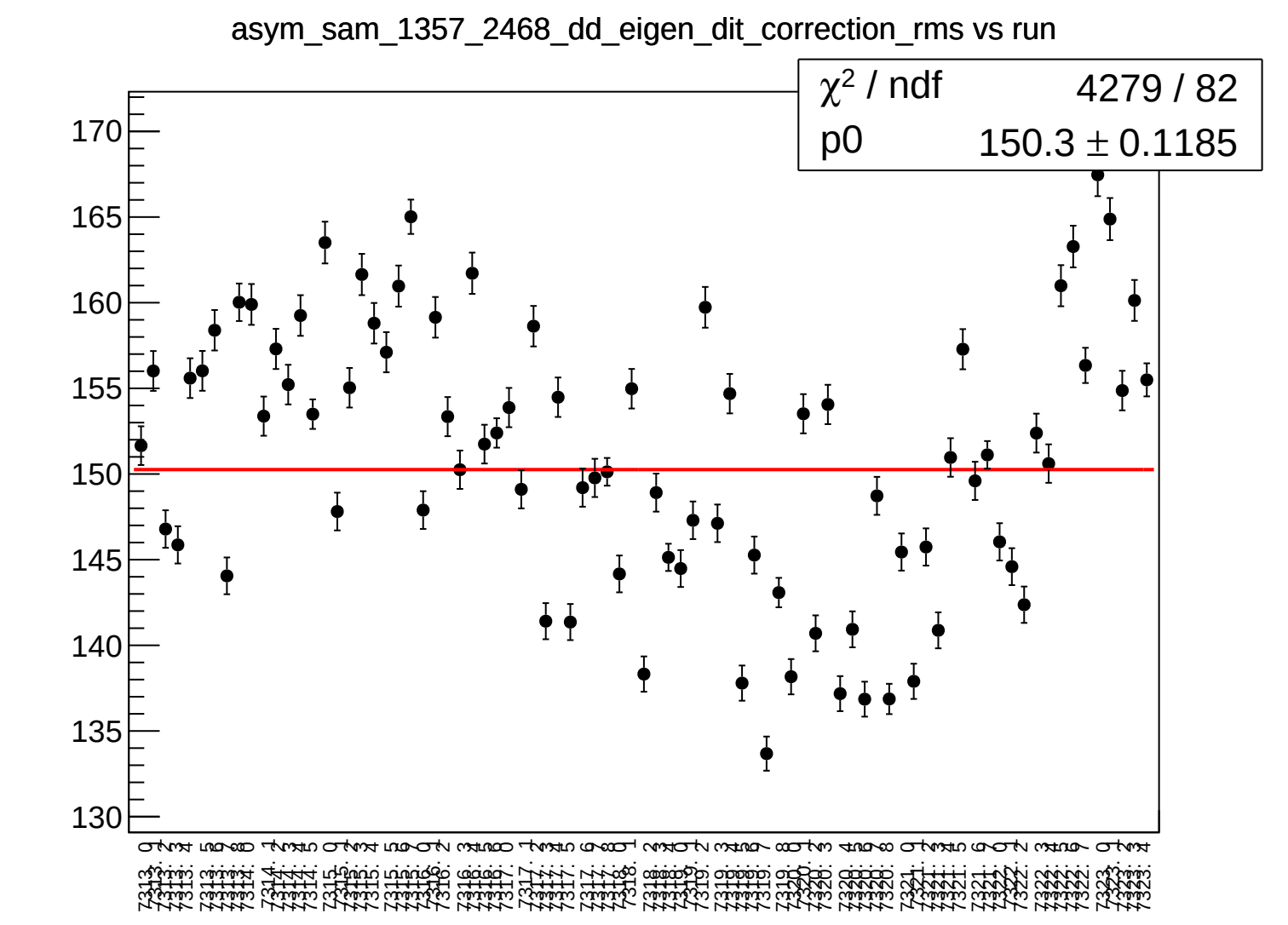

pull1D
Entries 83
Mean −0.01847
Std Dev 0.8692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

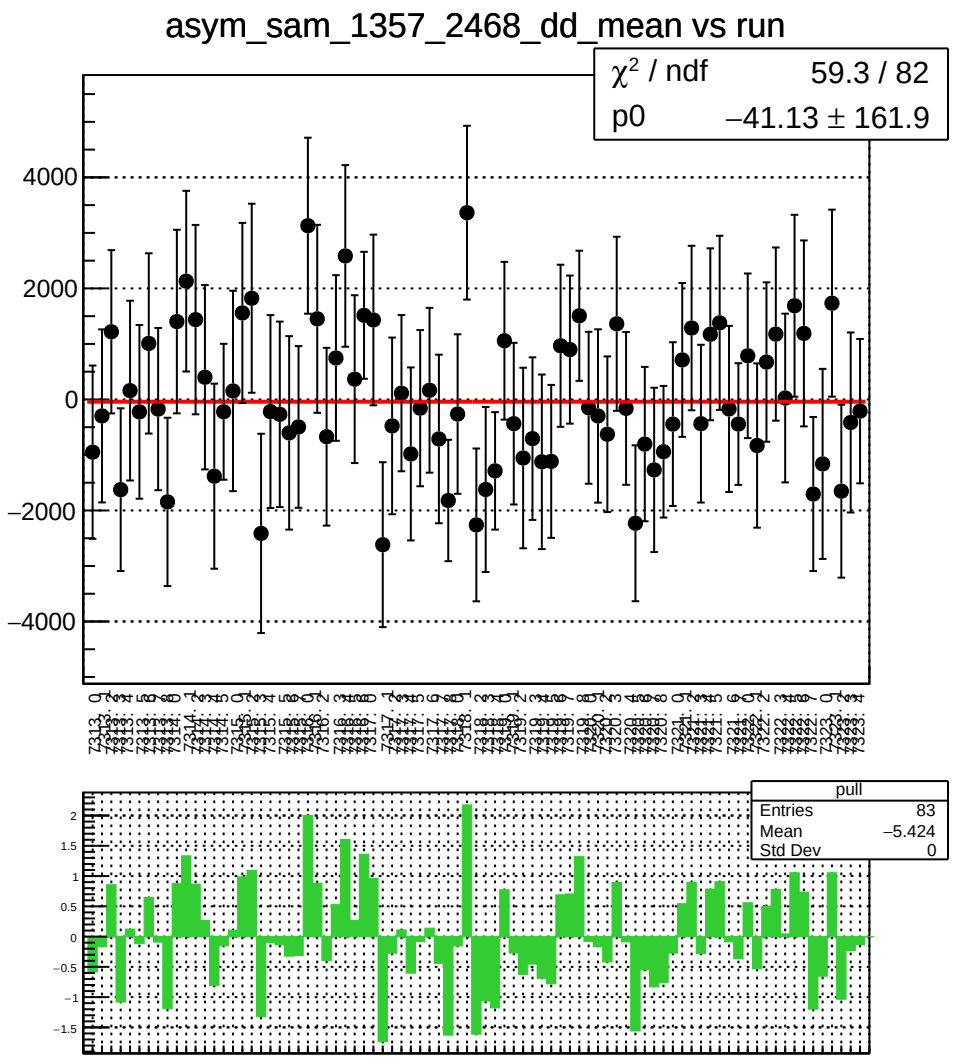

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4279 / 82
p0 150.3 ± 0.1185
170
165
160
155
150
145
140
135
130

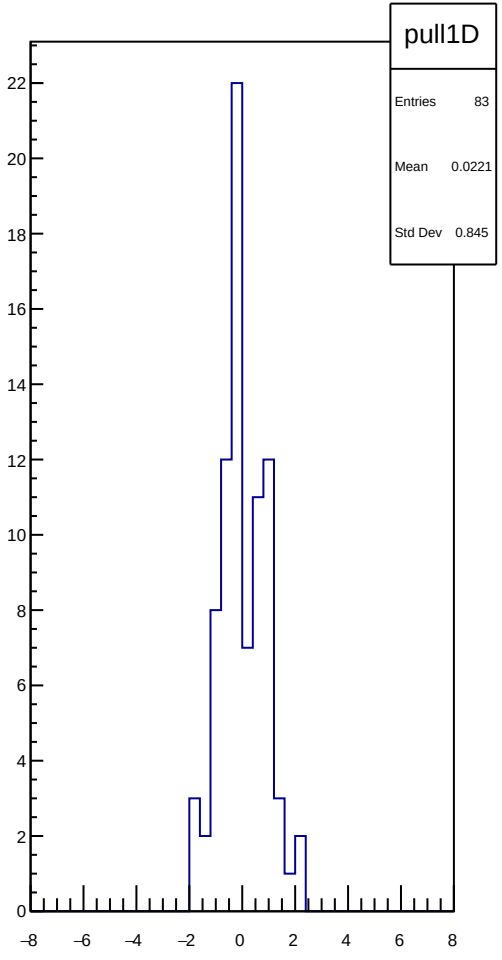

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 100.5 / 82
p0 4.086 ± 28.68
pull
Entries 83
Mean −7.622
Std Dev 28.8
pull1D
Entries 83
Mean −0.02581
Std Dev 1.1

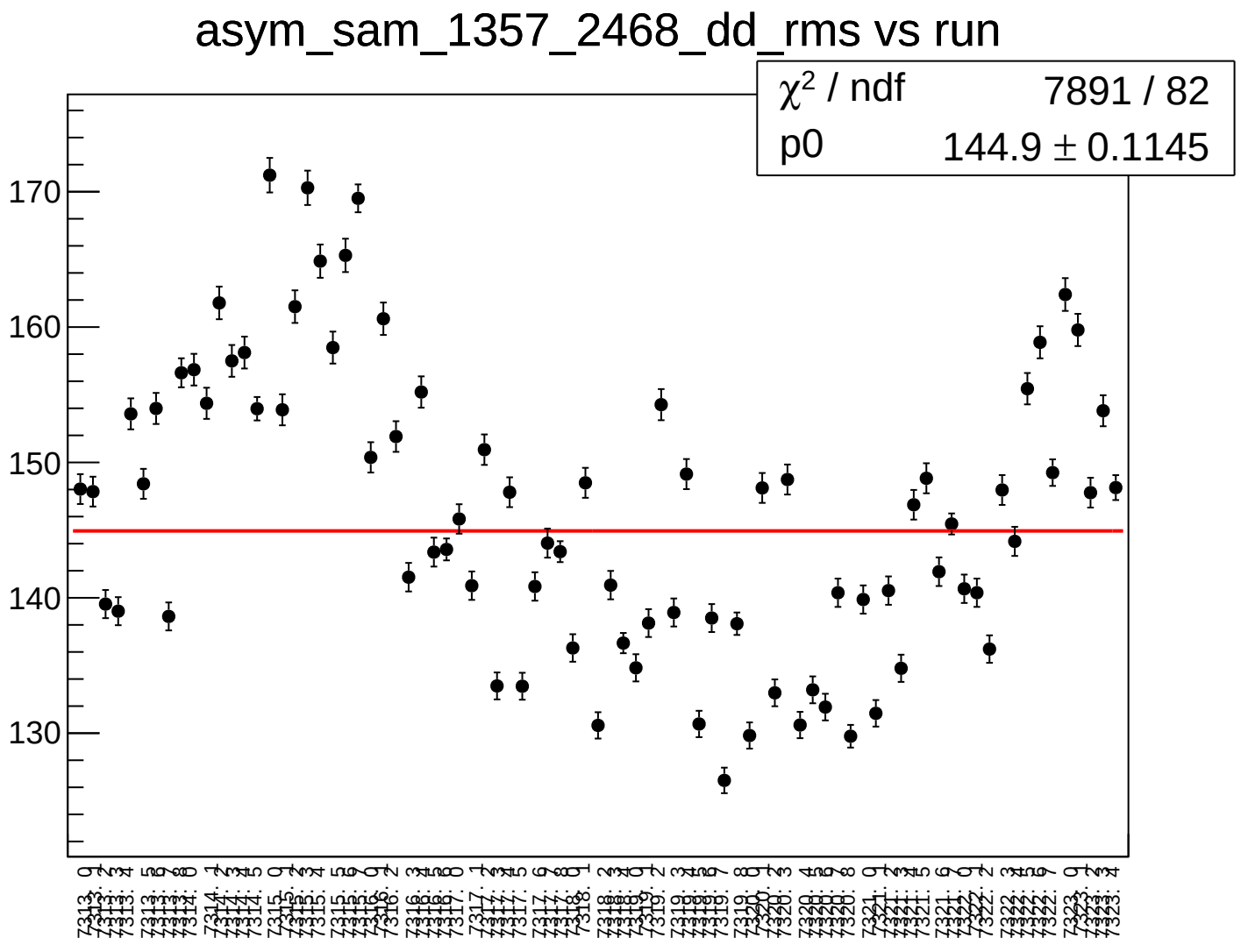

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.036e+05 / 82
p0 24.9 ± 0.02028
55
50
45
40
35
30
25
20

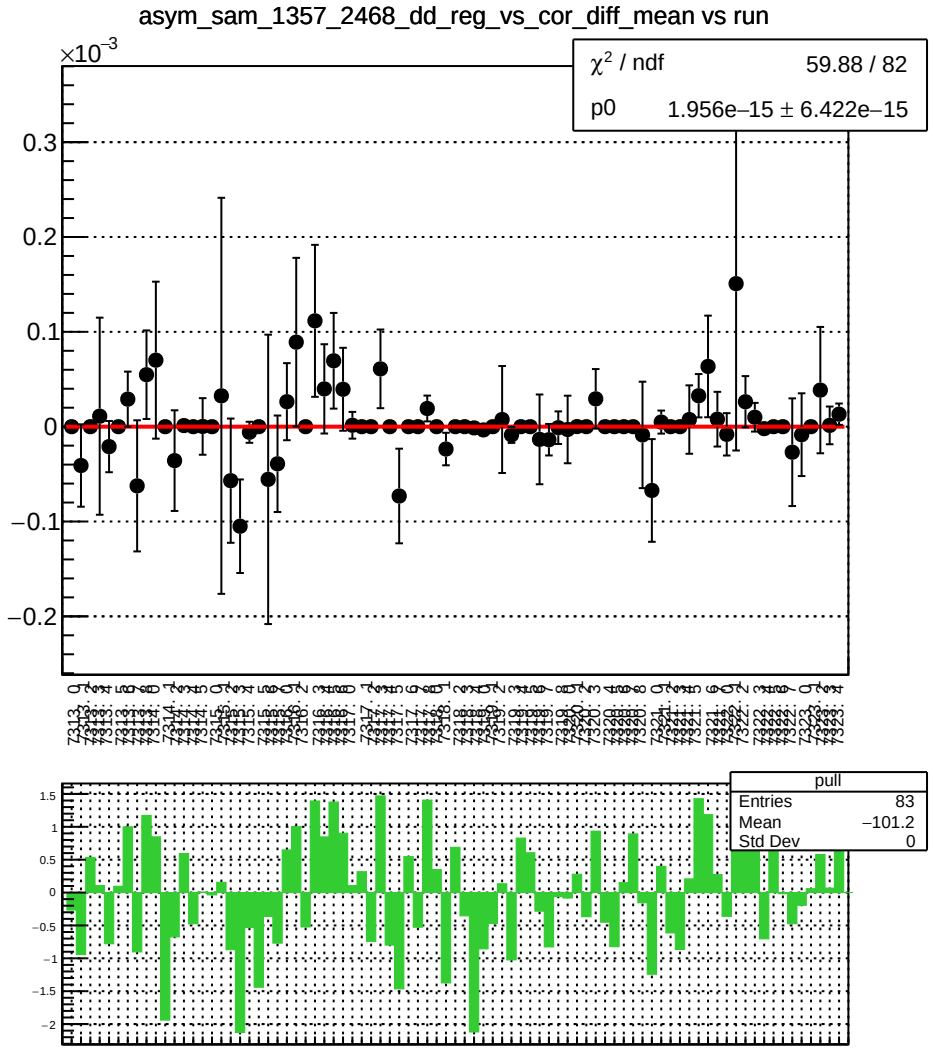

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.74 / 82
p0 19.62 ± 167.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −37.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean −0.01847
Std Dev 0.8692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

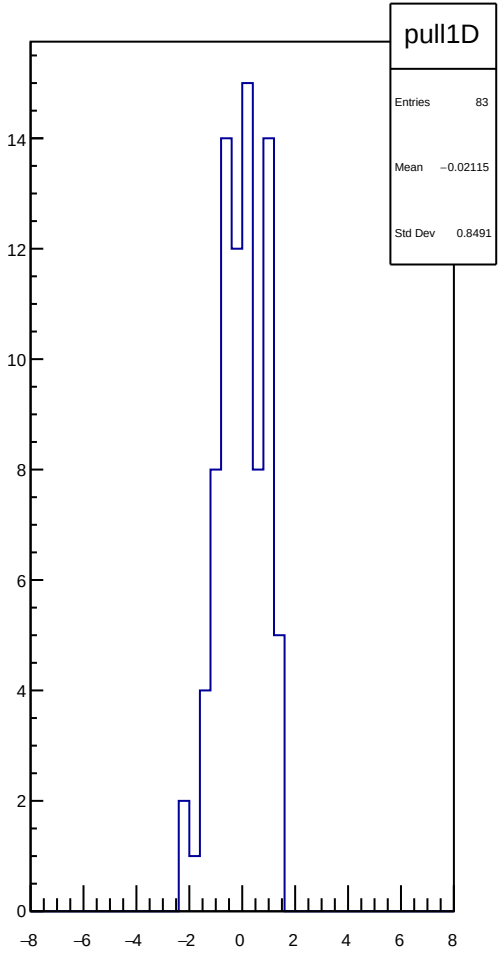

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4279 / 82
p0 150.3 ± 0.1185
170
165
160
155
150
145
140
135
130

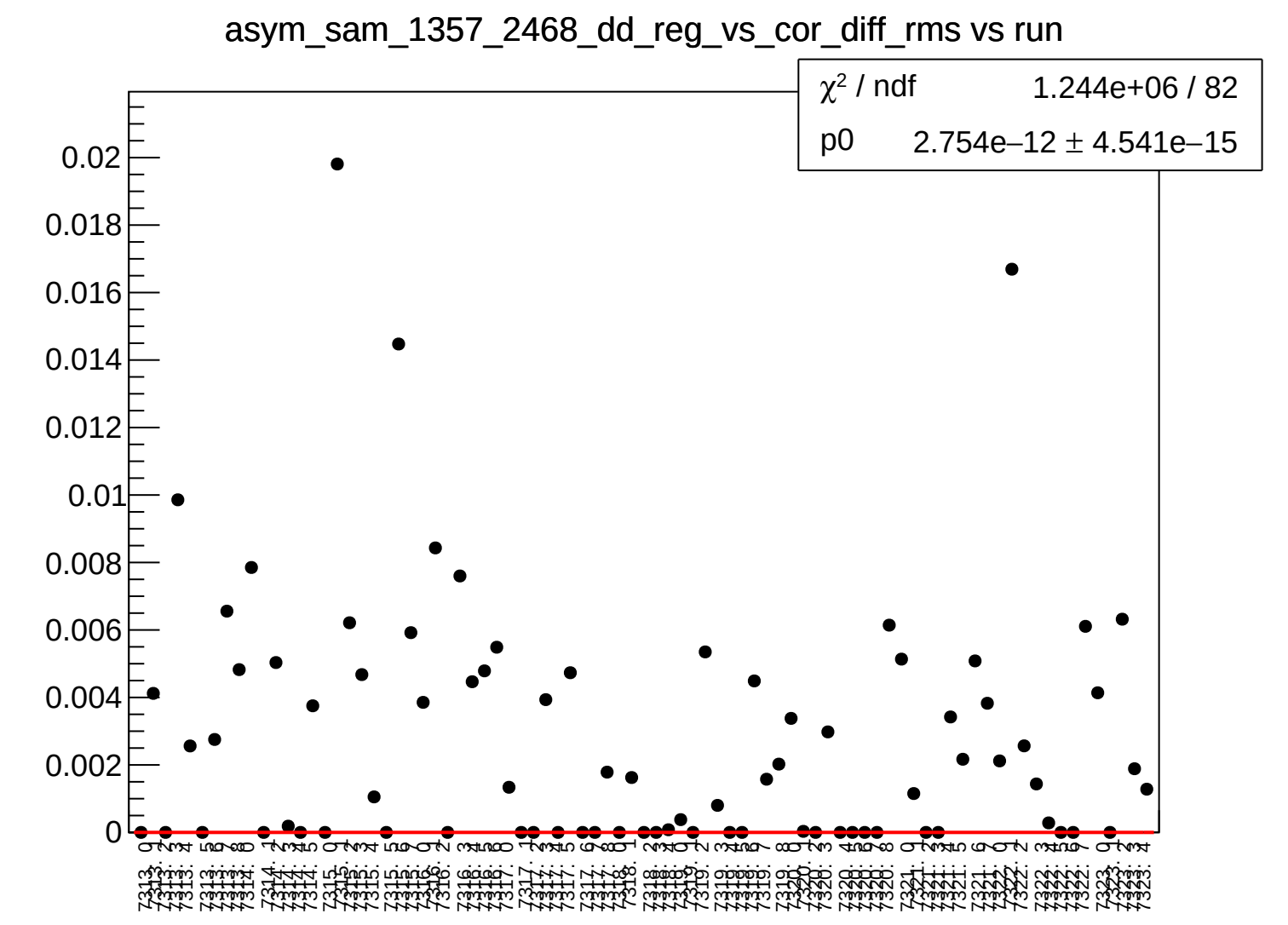

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 59.3 / 82
p0 −41.13 ± 161.9
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −5.424
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

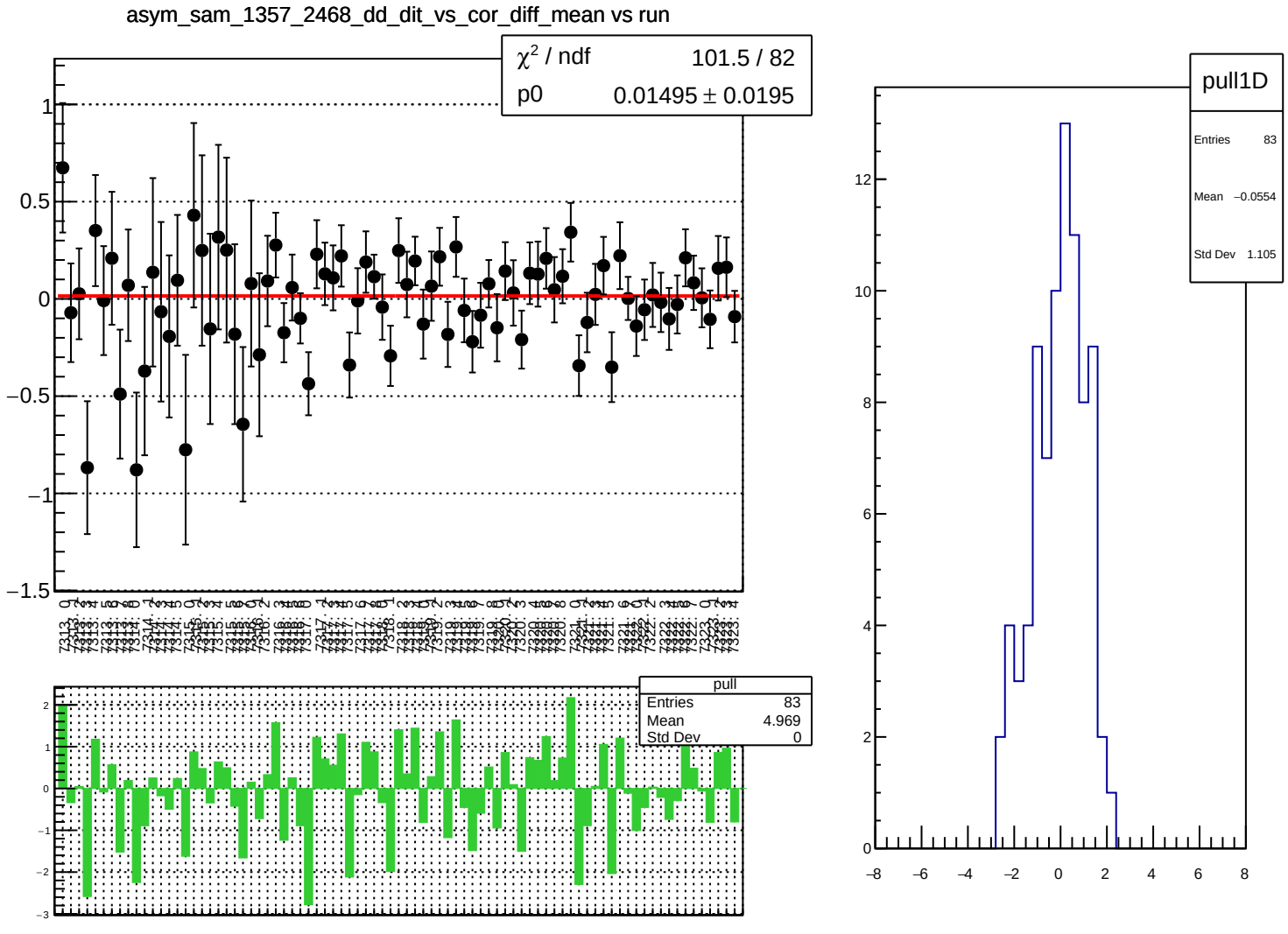

pull1D
Entries 83
Mean 0.0221
Std Dev 0.845
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

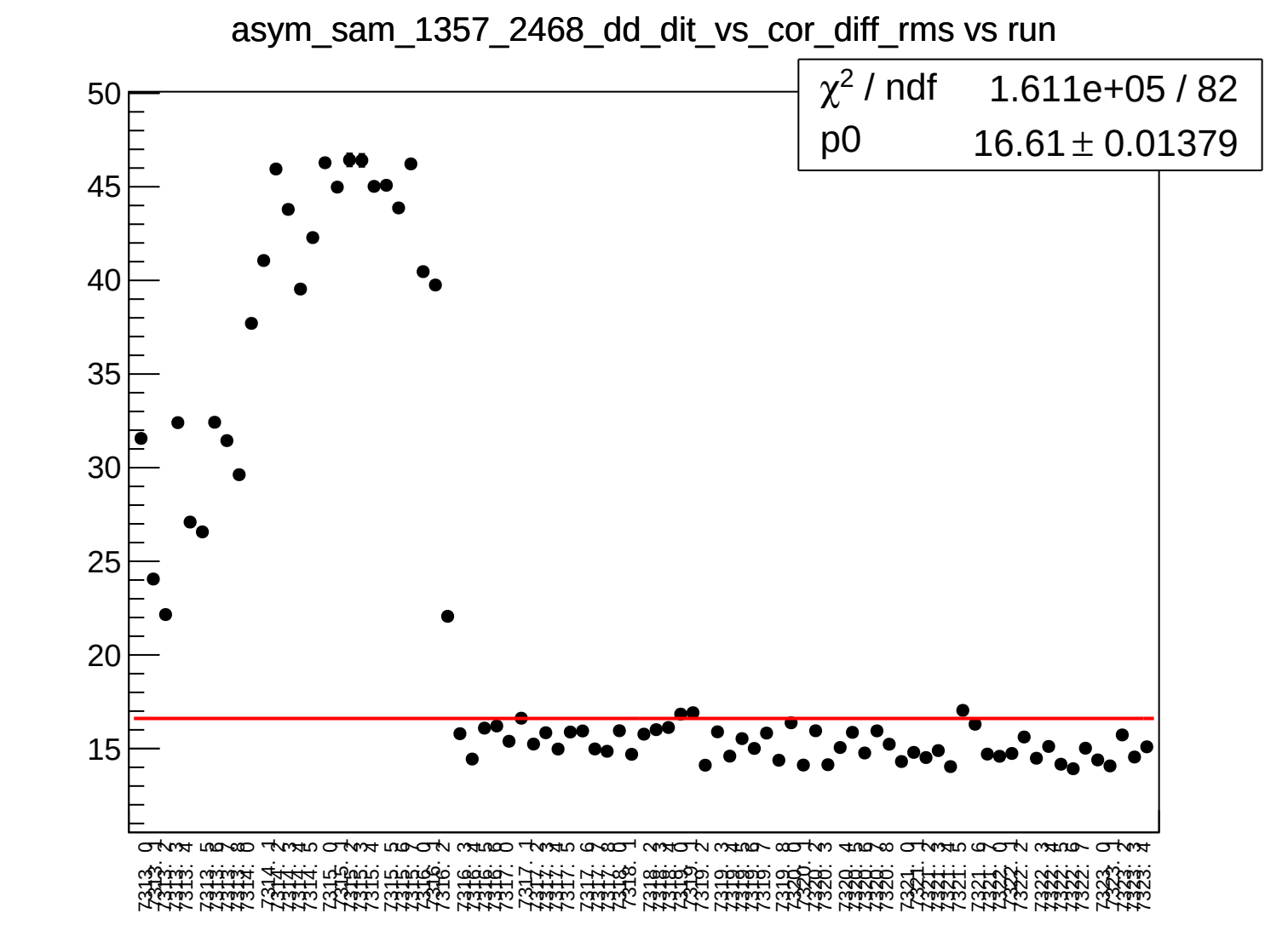

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7891 / 82
p0 144.9 ± 0.1145
170
160
150
140
130

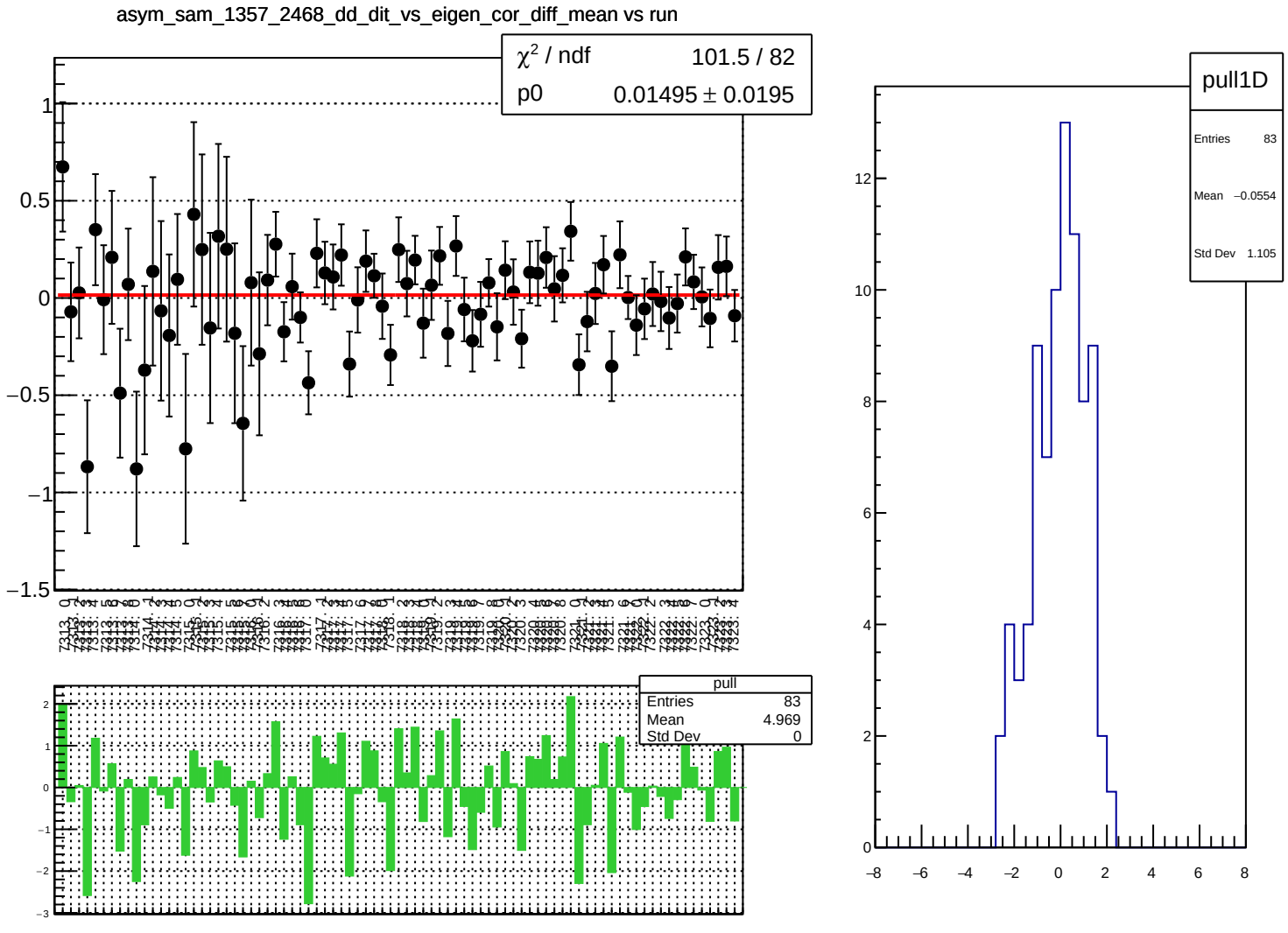

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 59.88 / 82
p0 1.956e−15 ± 6.422e−15
pull
Entries 83
Mean −101.2
Std Dev 0

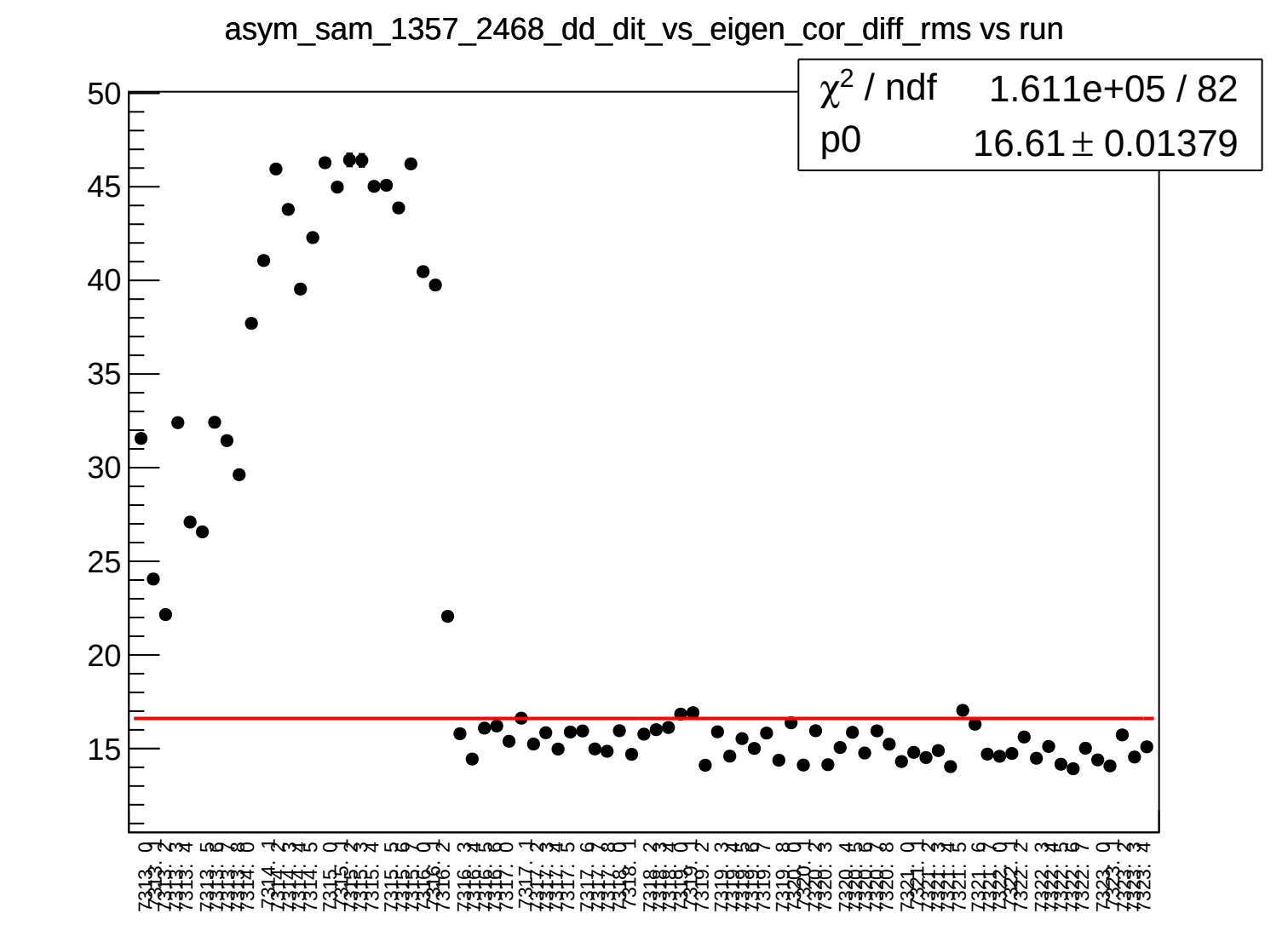

pull1D
Entries 83
Mean −0.02115
Std Dev 0.8491

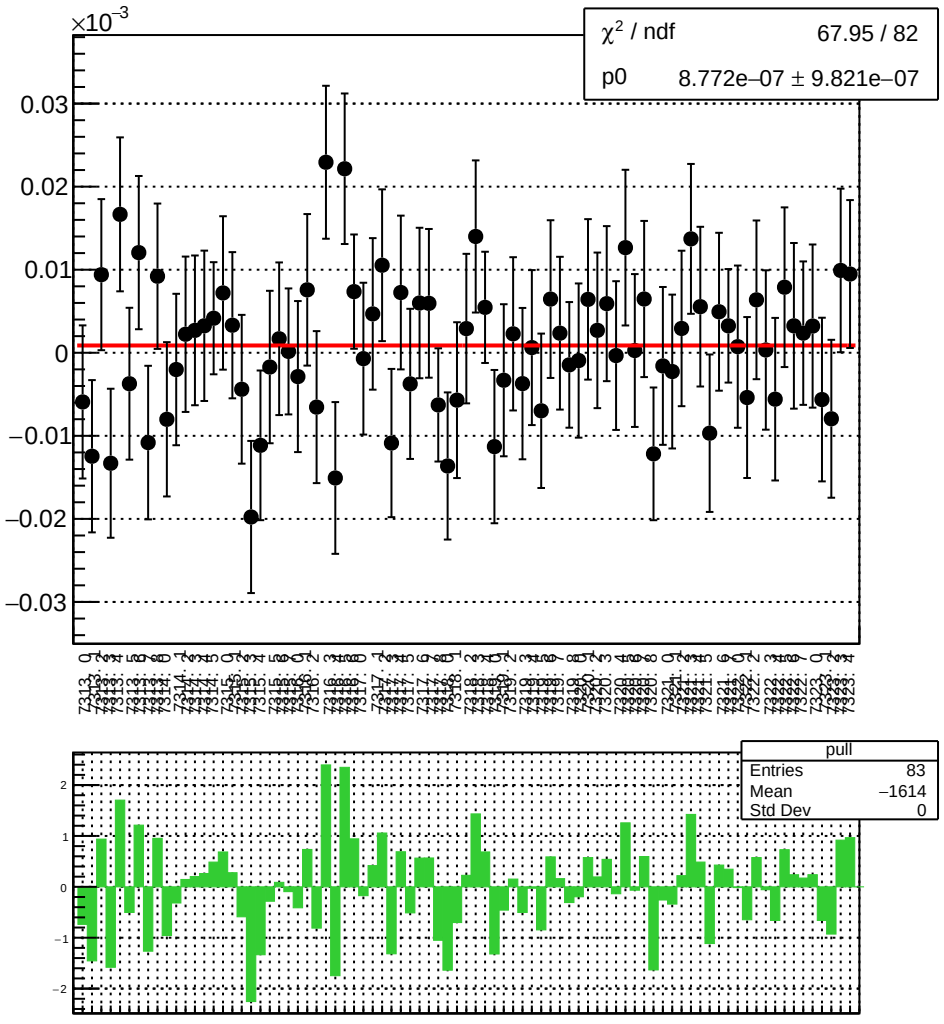

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.244e+06 / 82
p0 2.754e−12 ± 4.541e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

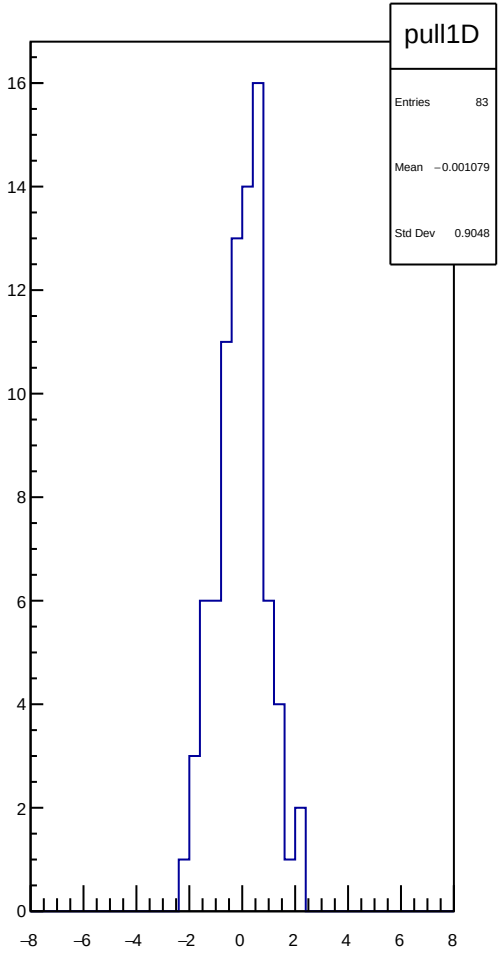

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 82
p0 0.01495 ± 0.0195
pull
Entries 83
Mean 4.969
Std Dev 0
pull1D
Entries 83
Mean −0.0554
Std Dev 1.105

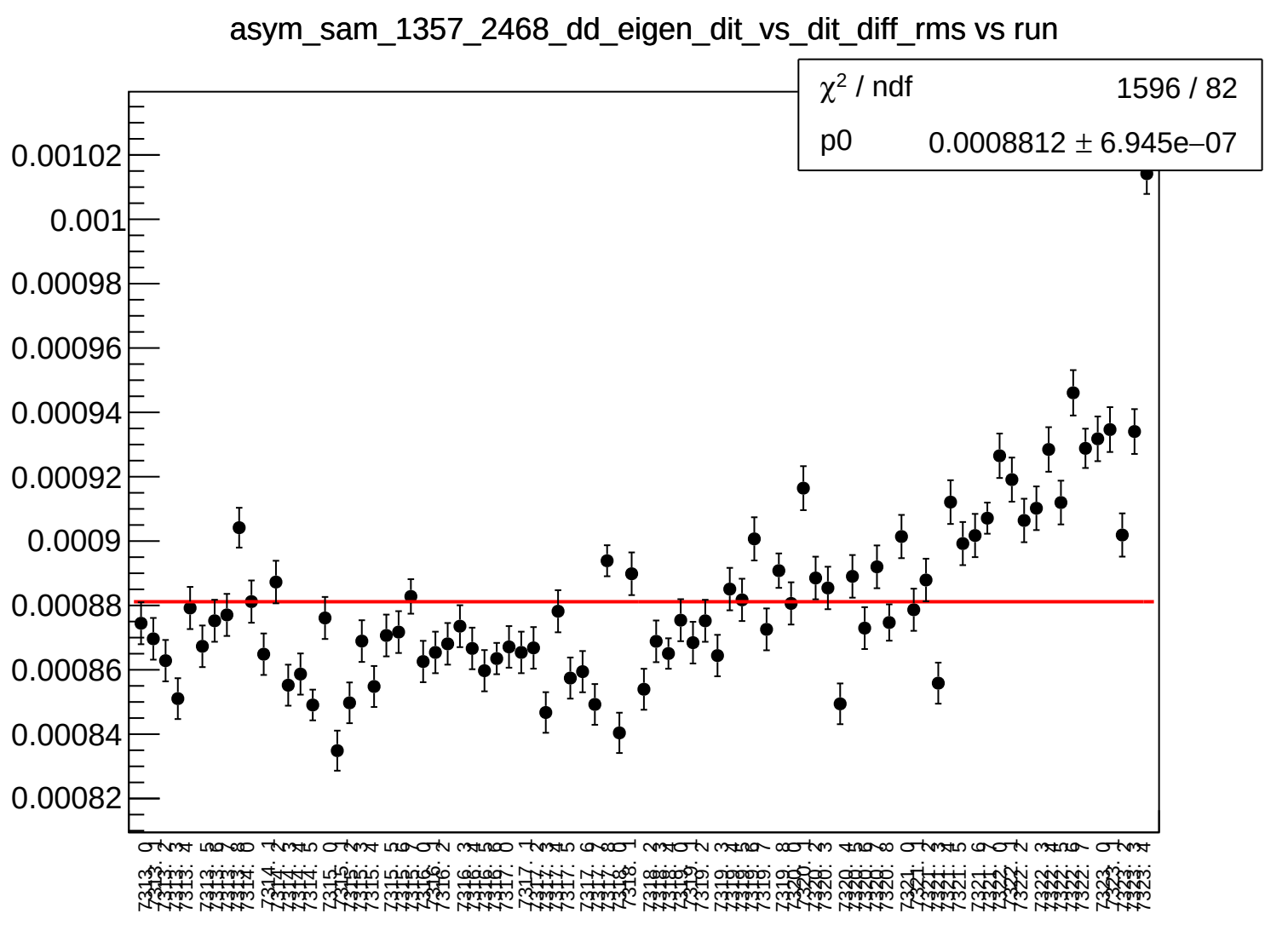

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 82
p0 16.61 ± 0.01379
50
45
40
35
30
25
20
15

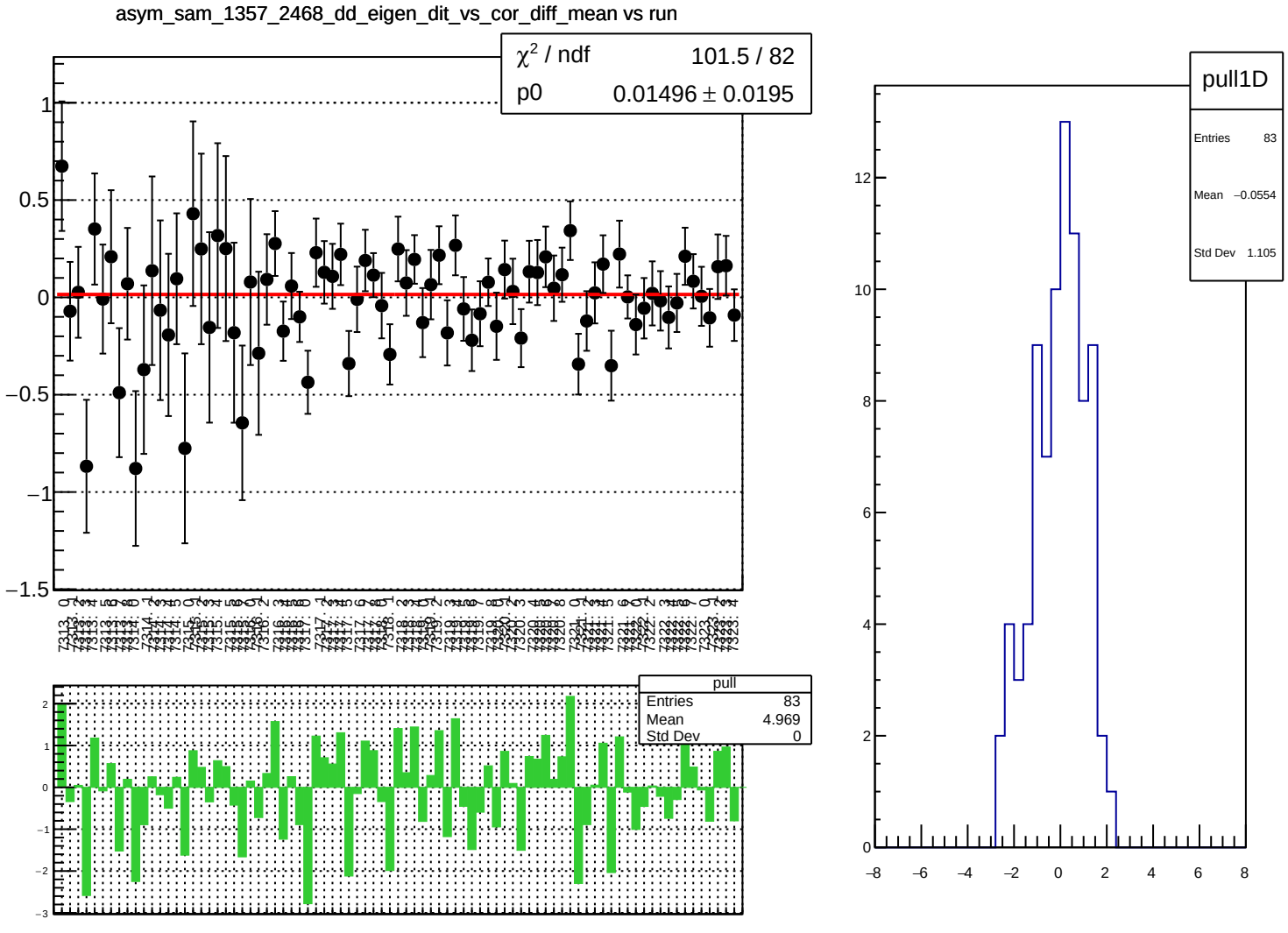

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 82
p0 0.01495 ± 0.0195
pull
Entries 83
Mean 4.969
Std Dev 0
pull1D
Entries 83
Mean −0.0554
Std Dev 1.105

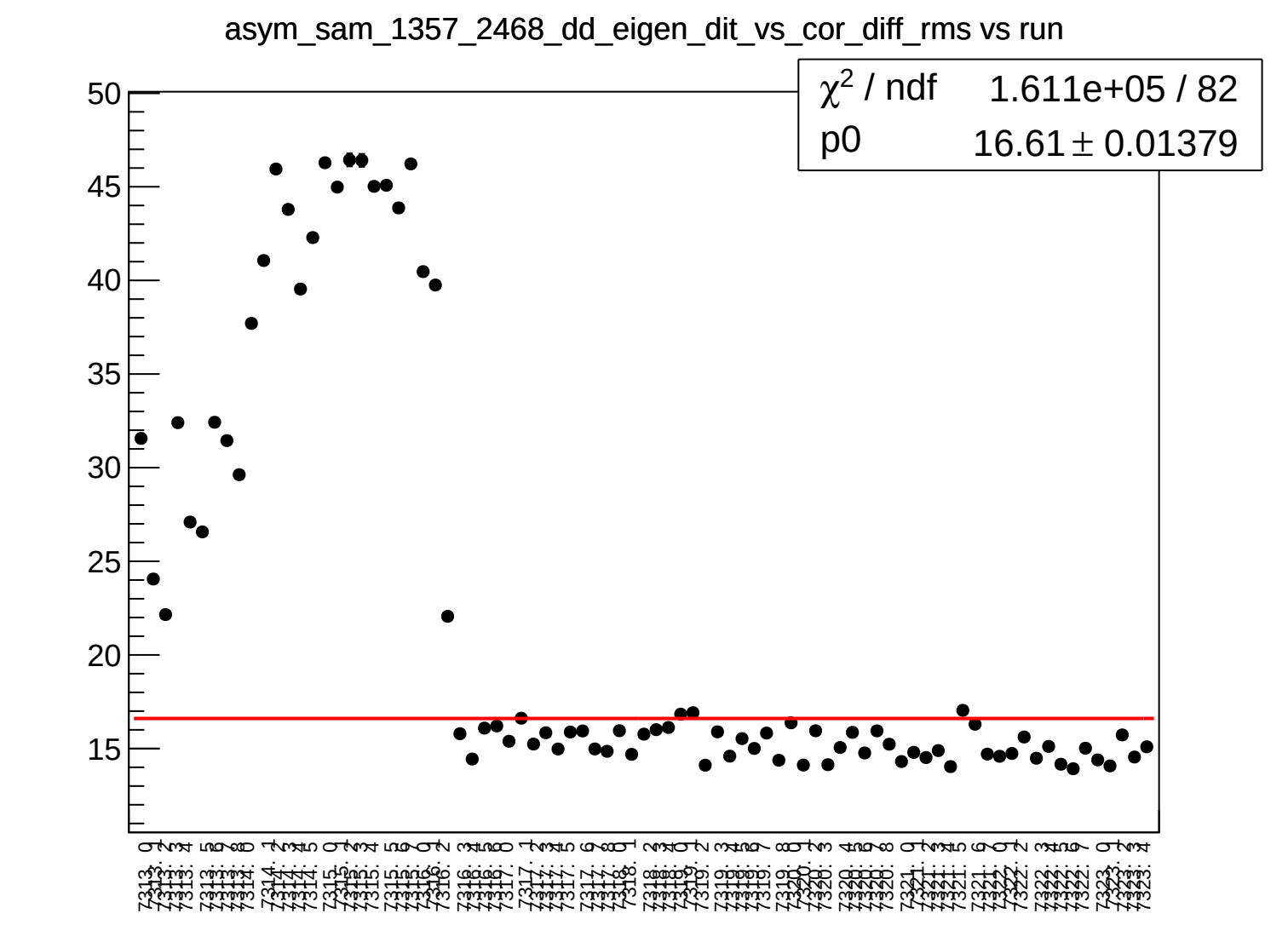

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 82
p0 16.61 ± 0.01379
50
45
40
35
30
25
20
15

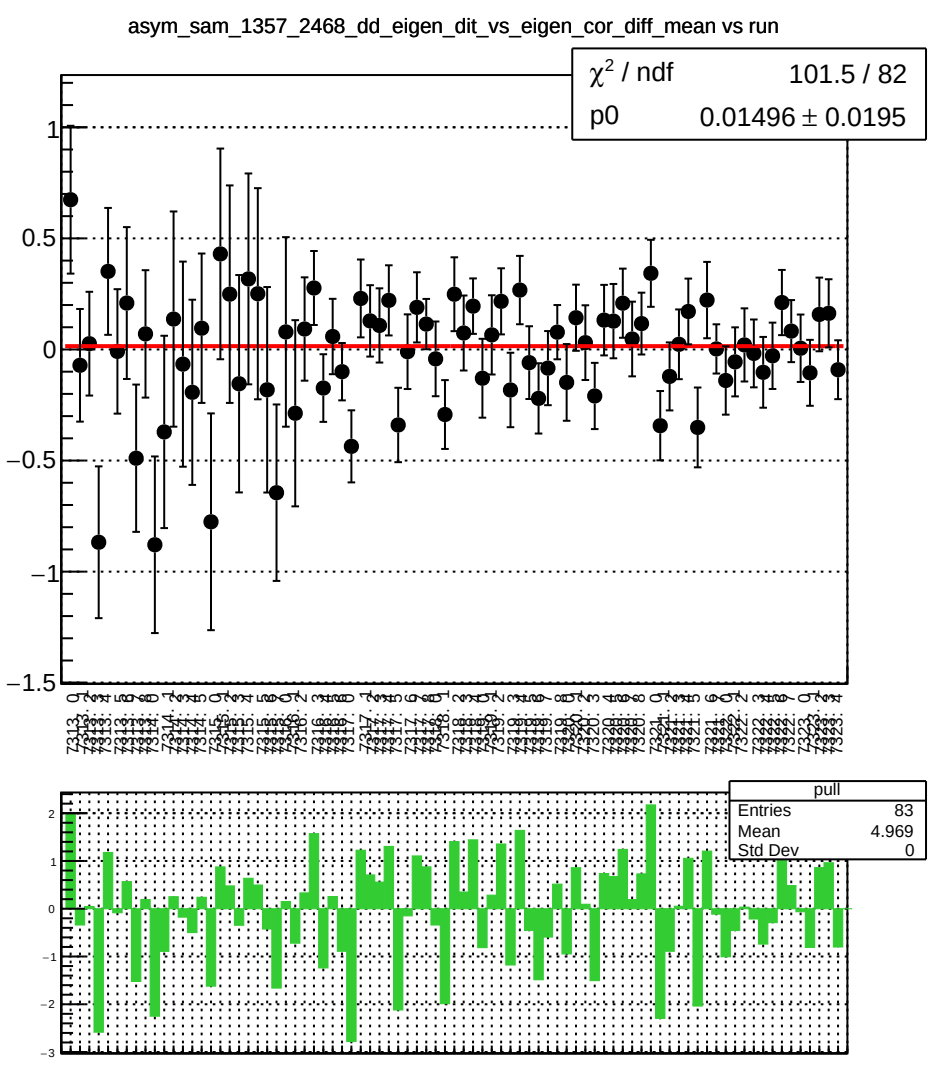

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.95 / 82
p0 8.772e−07 ± 9.821e−07
pull
Entries 83
Mean −1614
Std Dev 0

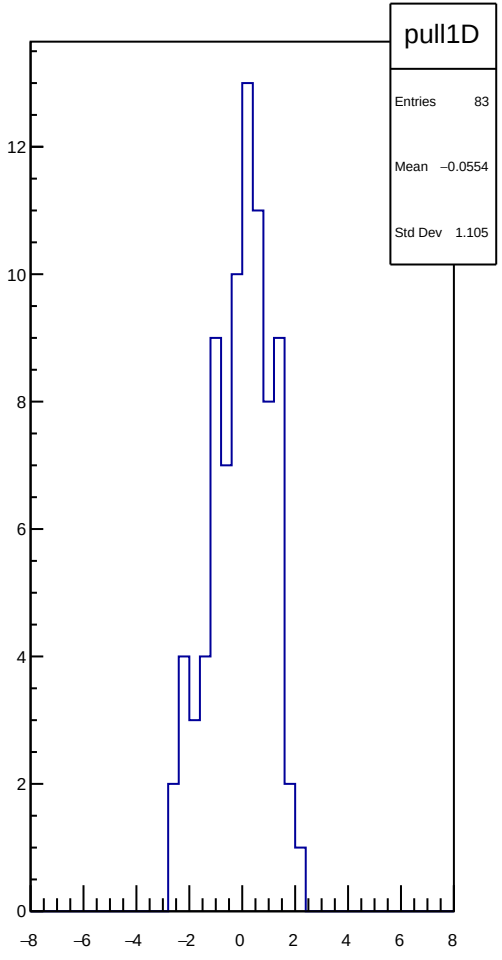

pull1D
Entries 83
Mean −0.001079
Std Dev 0.9048

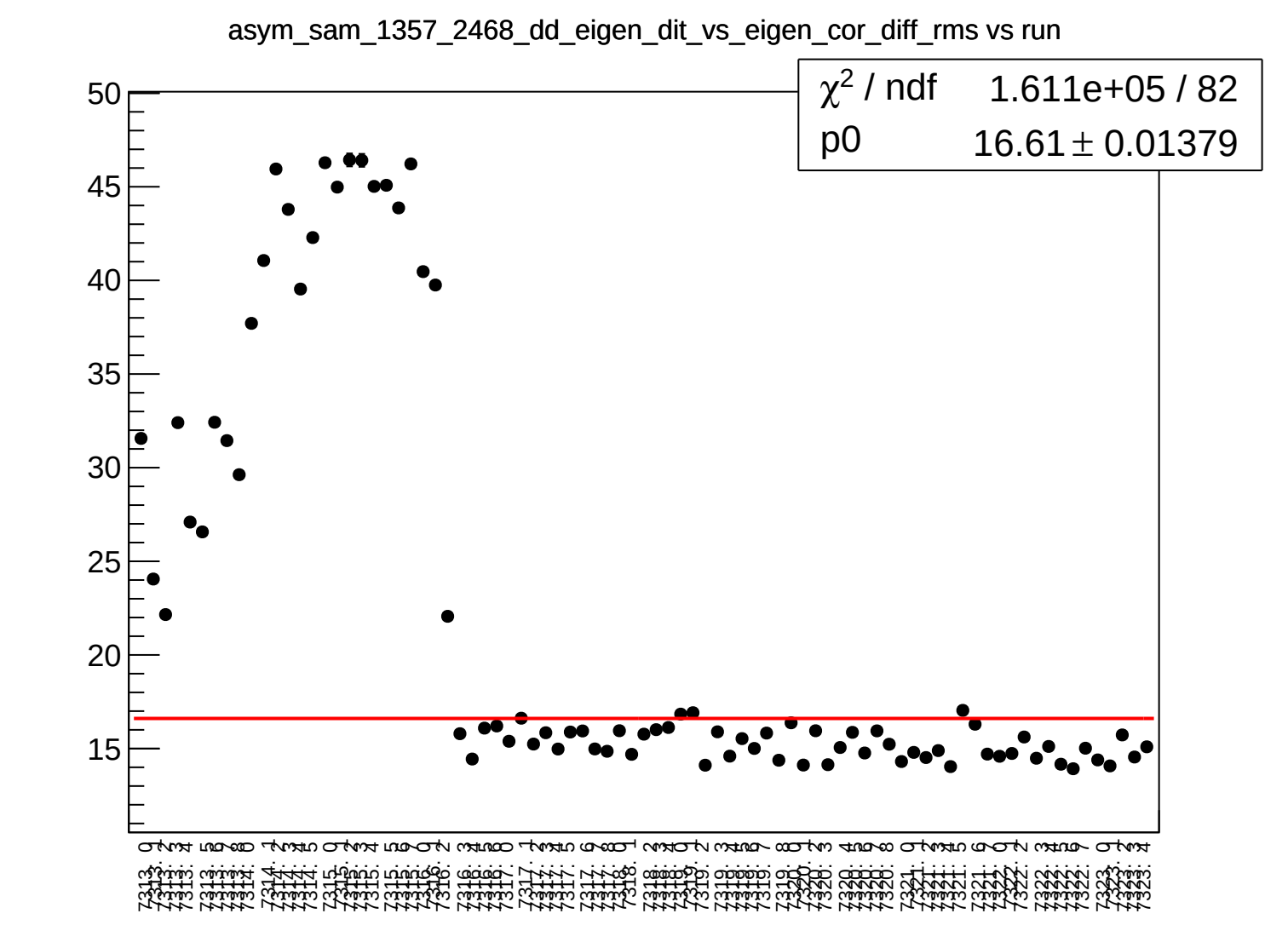

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1596 / 82
p0 0.0008812 ± 6.945e−07
0.00102
0.001
0.00098
0.00096
0.00094
0.00092
0.0009
0.00088
0.00086
0.00084
0.00082

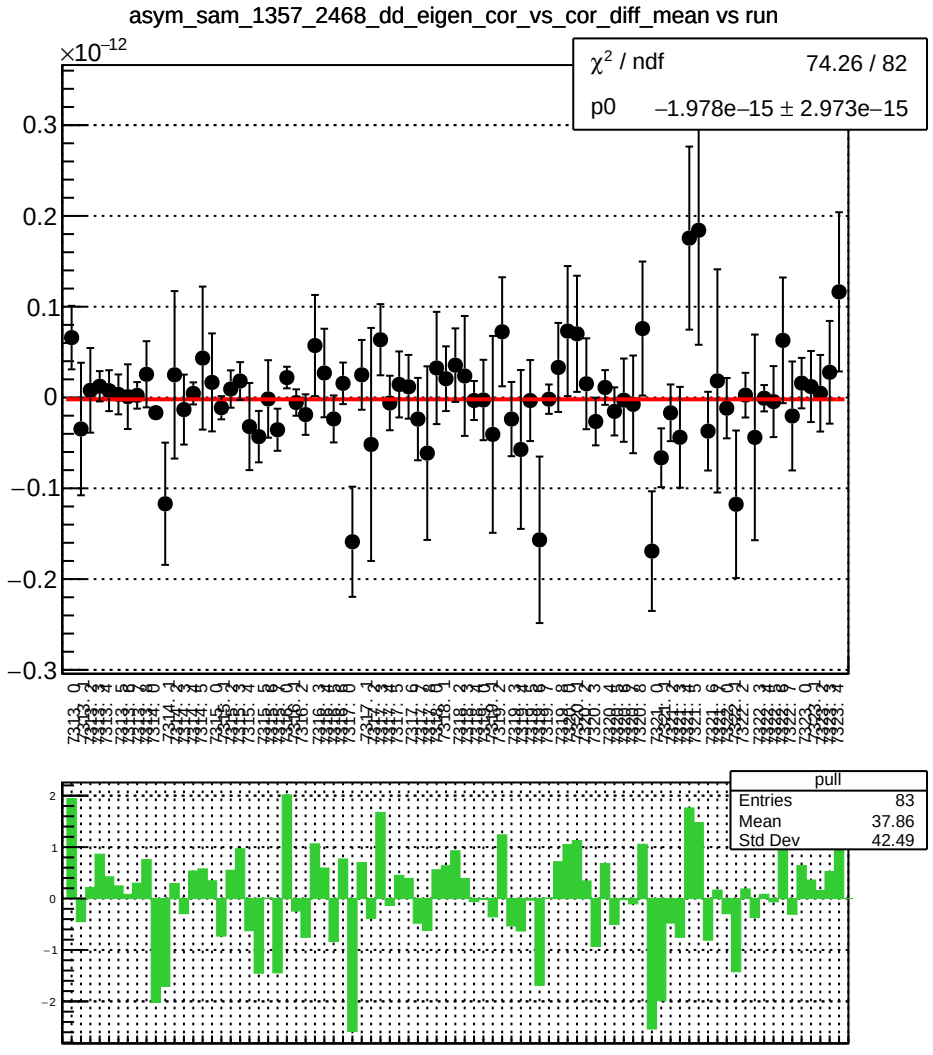

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 82
p0 0.01496 ± 0.0195
pull
Entries 83
Mean 4.969
Std Dev 0
pull1D
Entries 83
Mean −0.0554
Std Dev 1.105

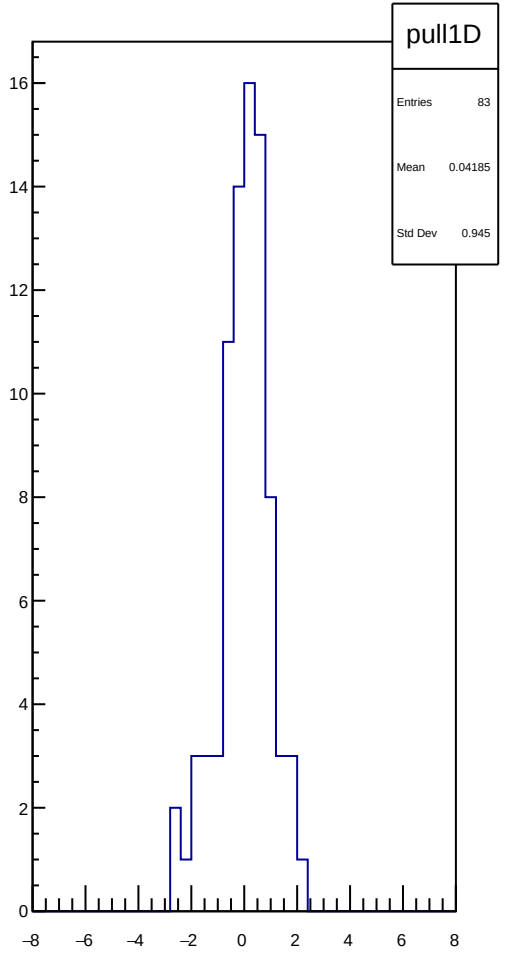

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 82
p0 16.61 ± 0.01379
50
45
40
35
30
25
20
15

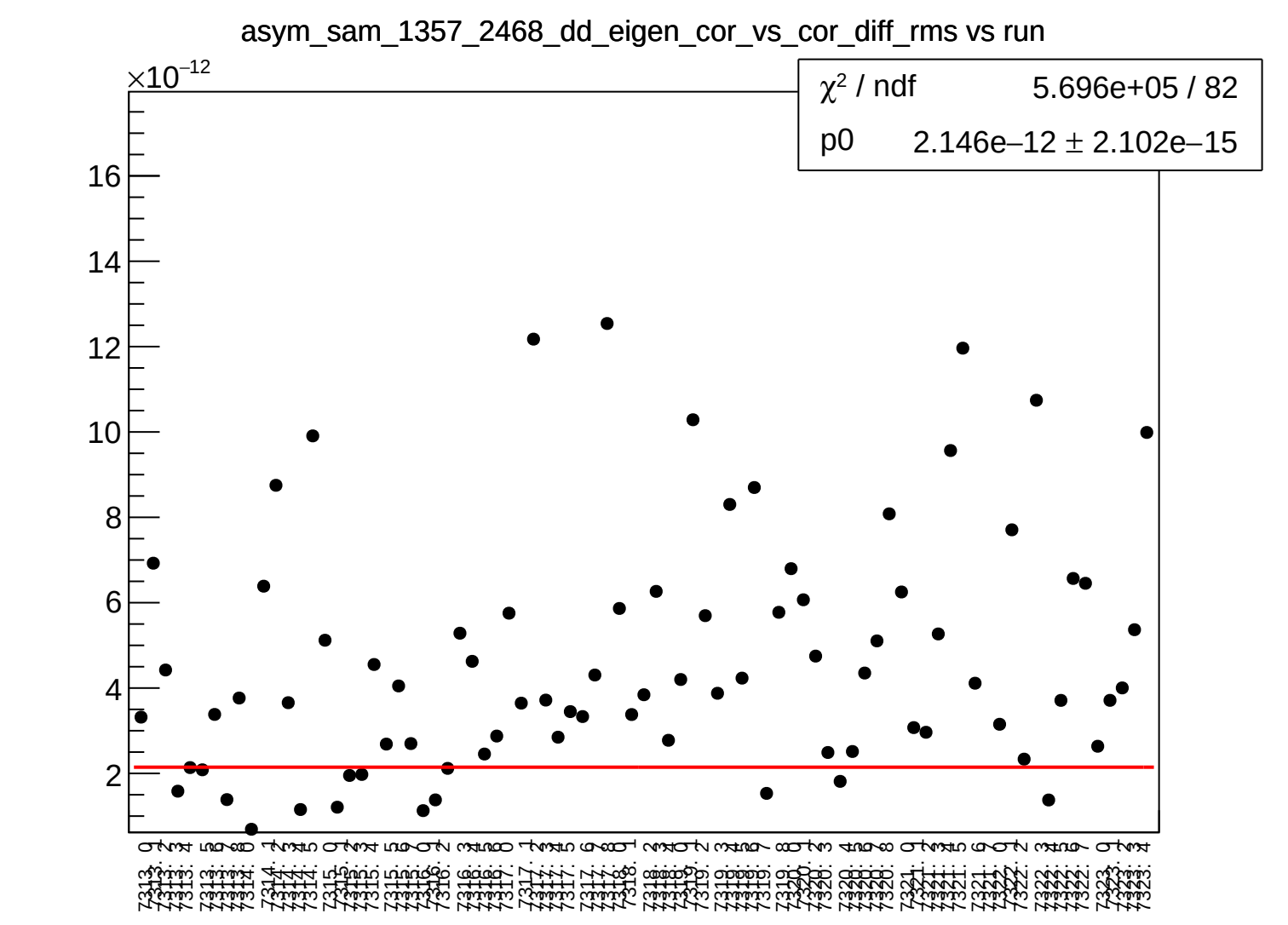

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 82
p0 0.01496 ± 0.0195
pull
Entries 83
Mean 4.969
Std Dev 0

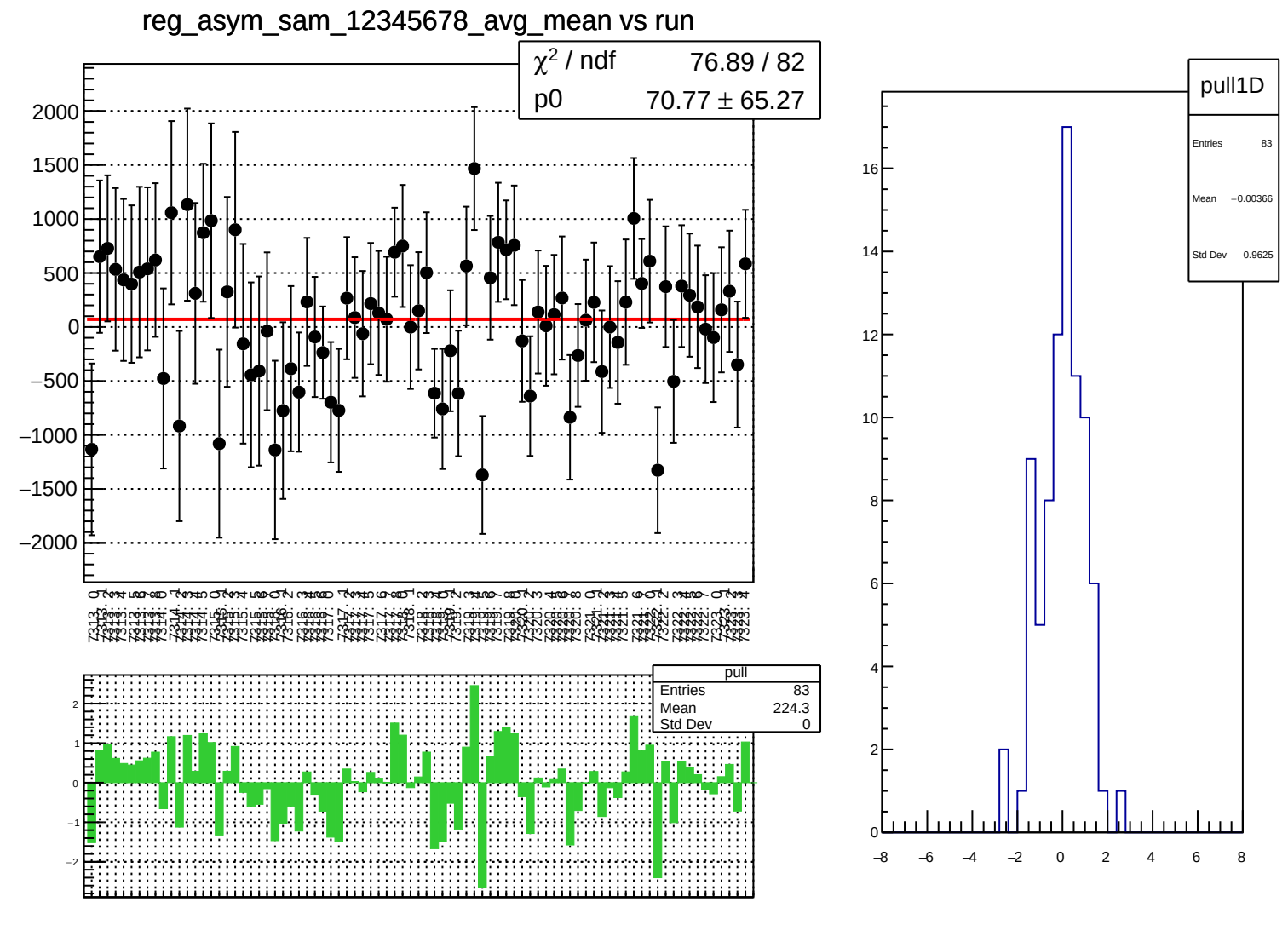

pull1D
Entries 83
Mean −0.0554
Std Dev 1.105

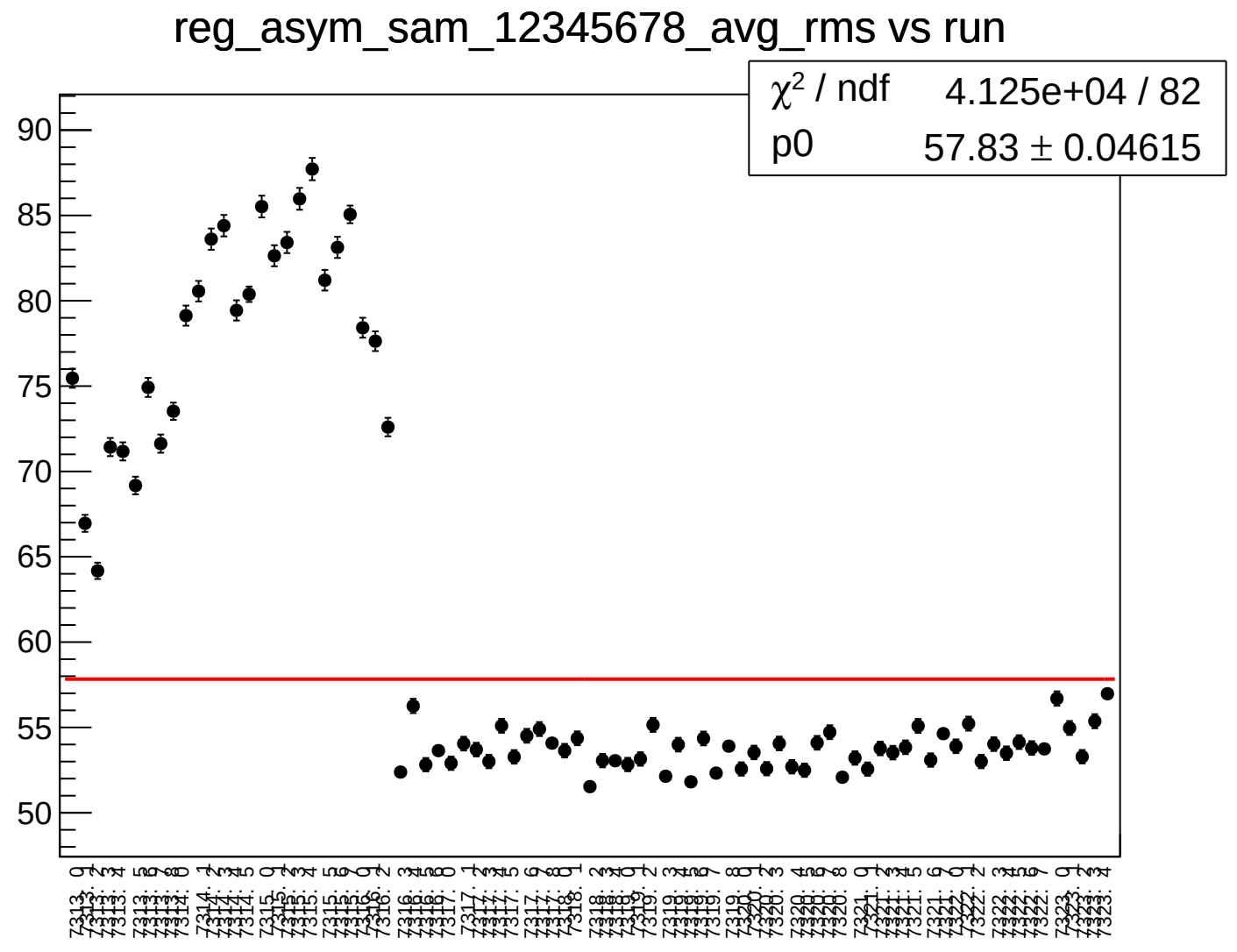

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 82
p0 16.61 ± 0.01379
50
45
40
35
30
25
20
15

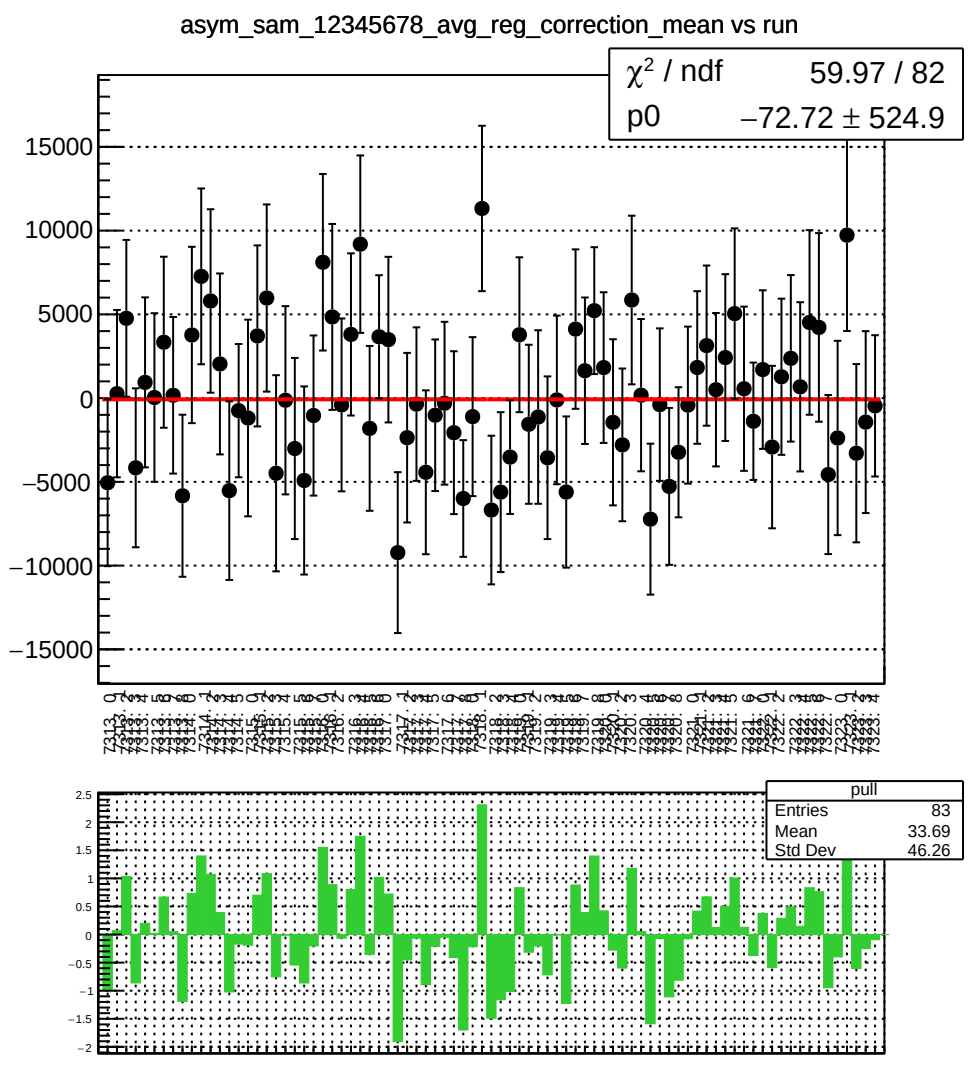

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.26 / 82
p0 −1.978e−15 ± 2.973e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 83
Mean 37.86
Std Dev 42.49
2
1
0
−1
−2

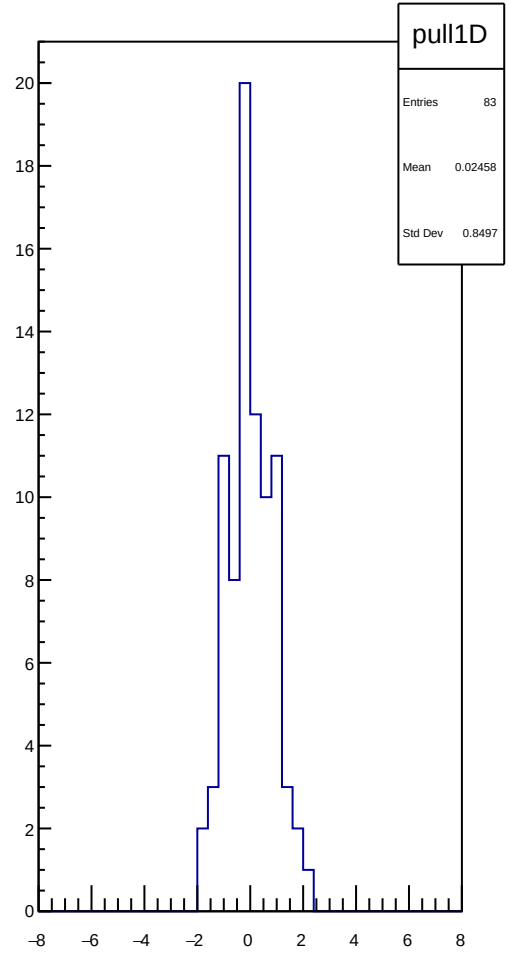

pull1D
Entries 83
Mean 0.04185
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

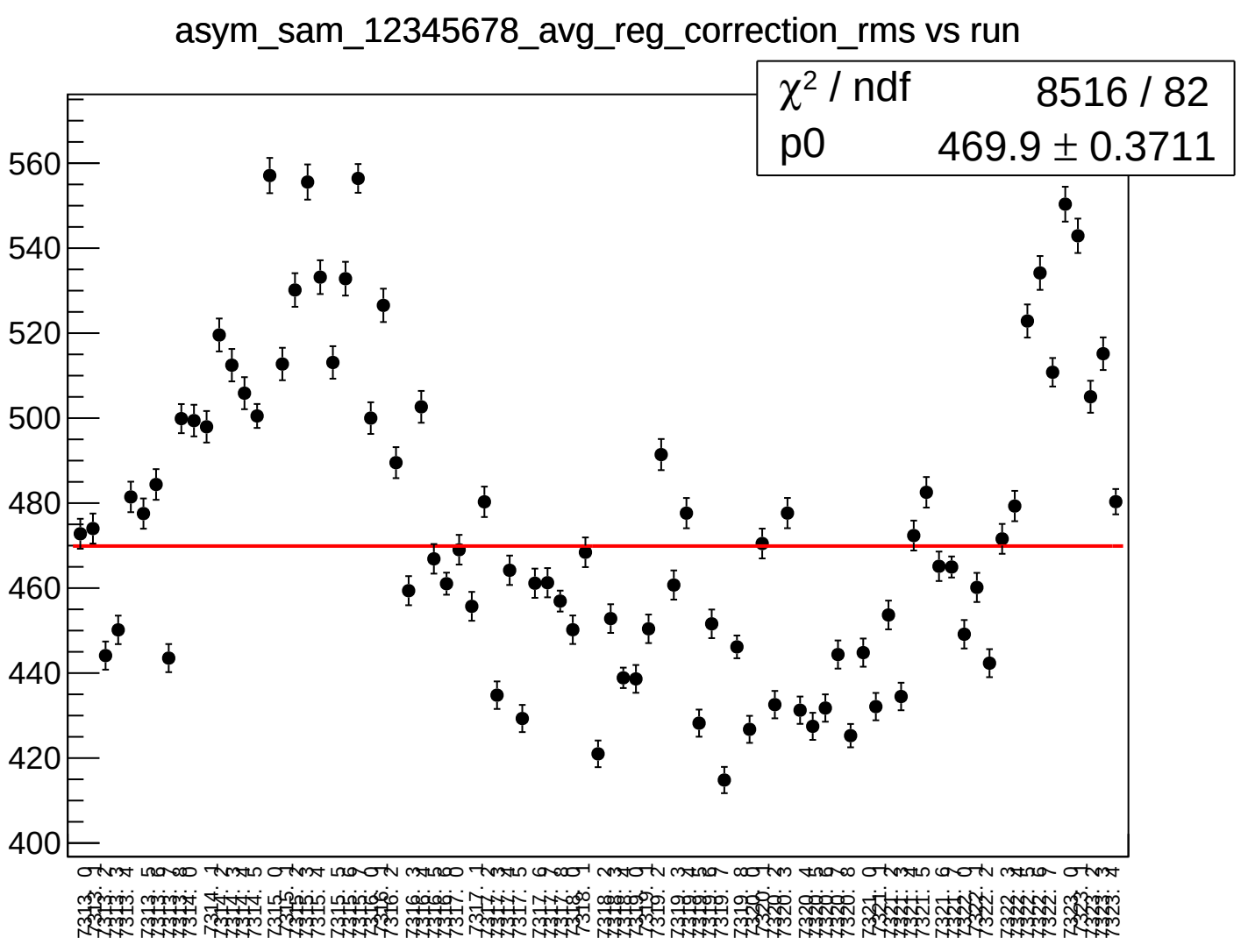

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.696e+05 / 82
p0 2.146e−12 ± 2.102e−15
16
14
12
10
8
6
4
2

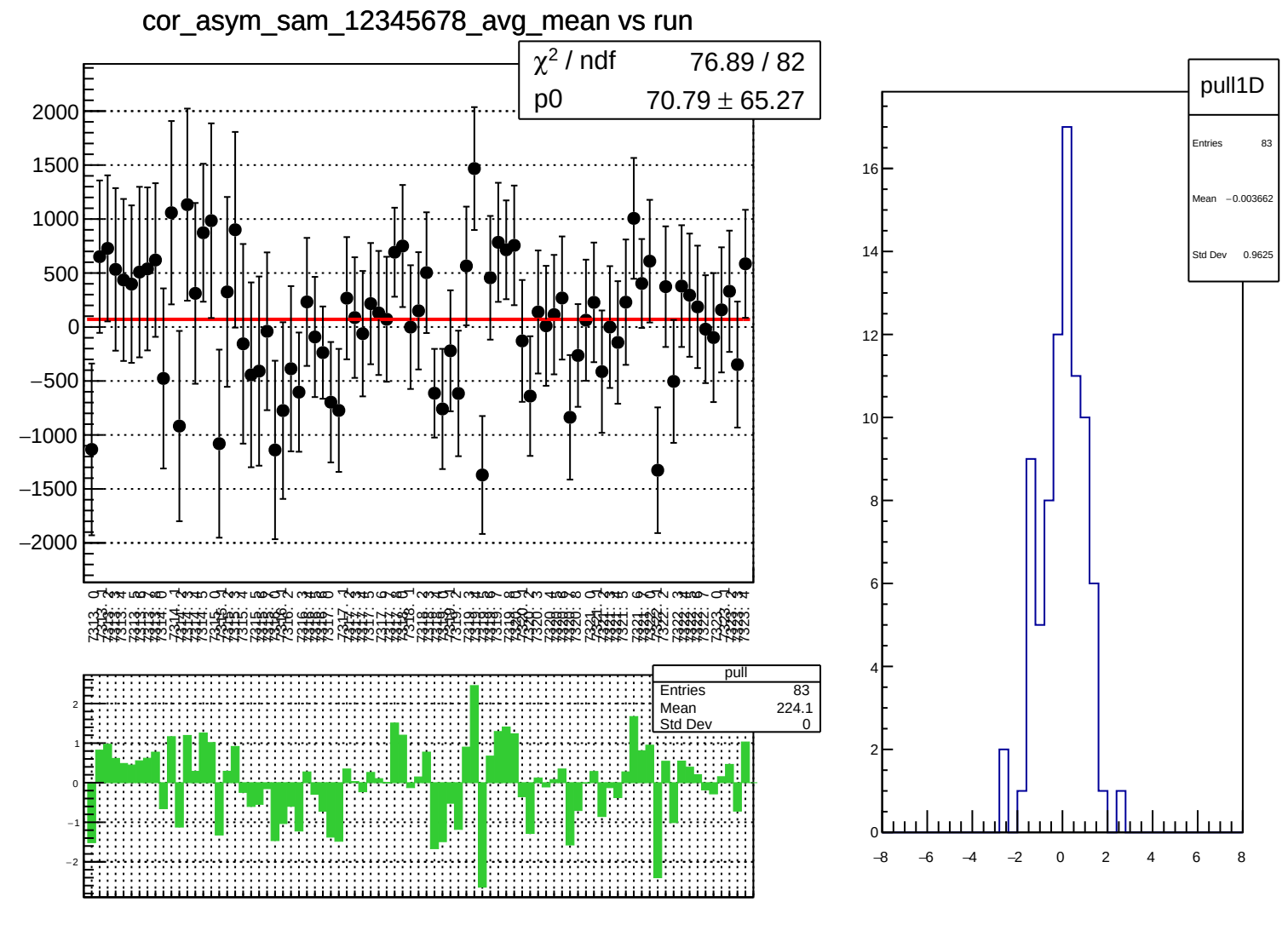

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 76.89 / 82
p0 70.77 ± 65.27
pull
Entries 83
Mean 224.3
Std Dev 0
pull1D
Entries 83
Mean −0.00366
Std Dev 0.9625

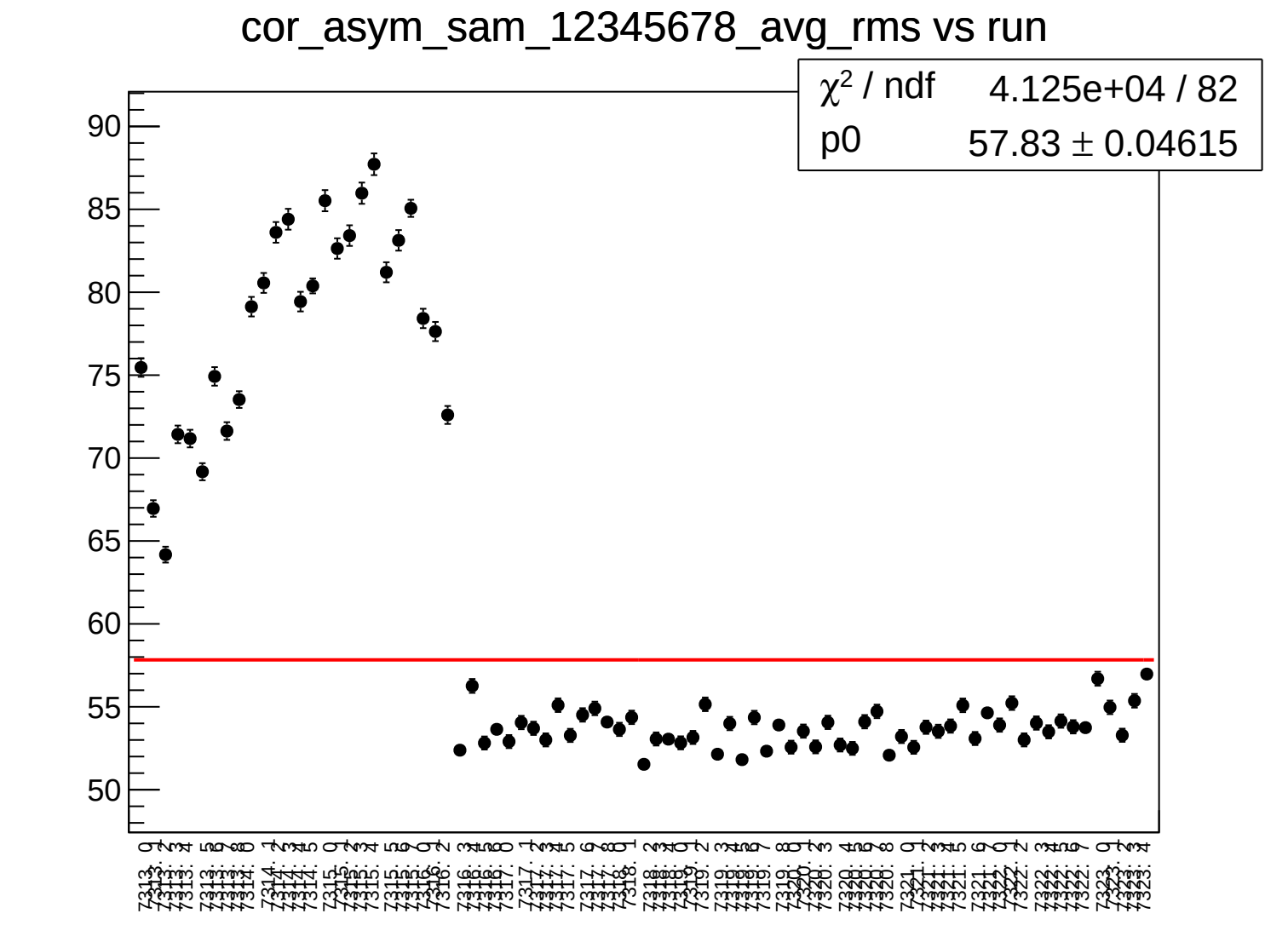

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.125e+04 / 82
p0 57.83 ± 0.04615
90
85
80
75
70
65
60
55
50

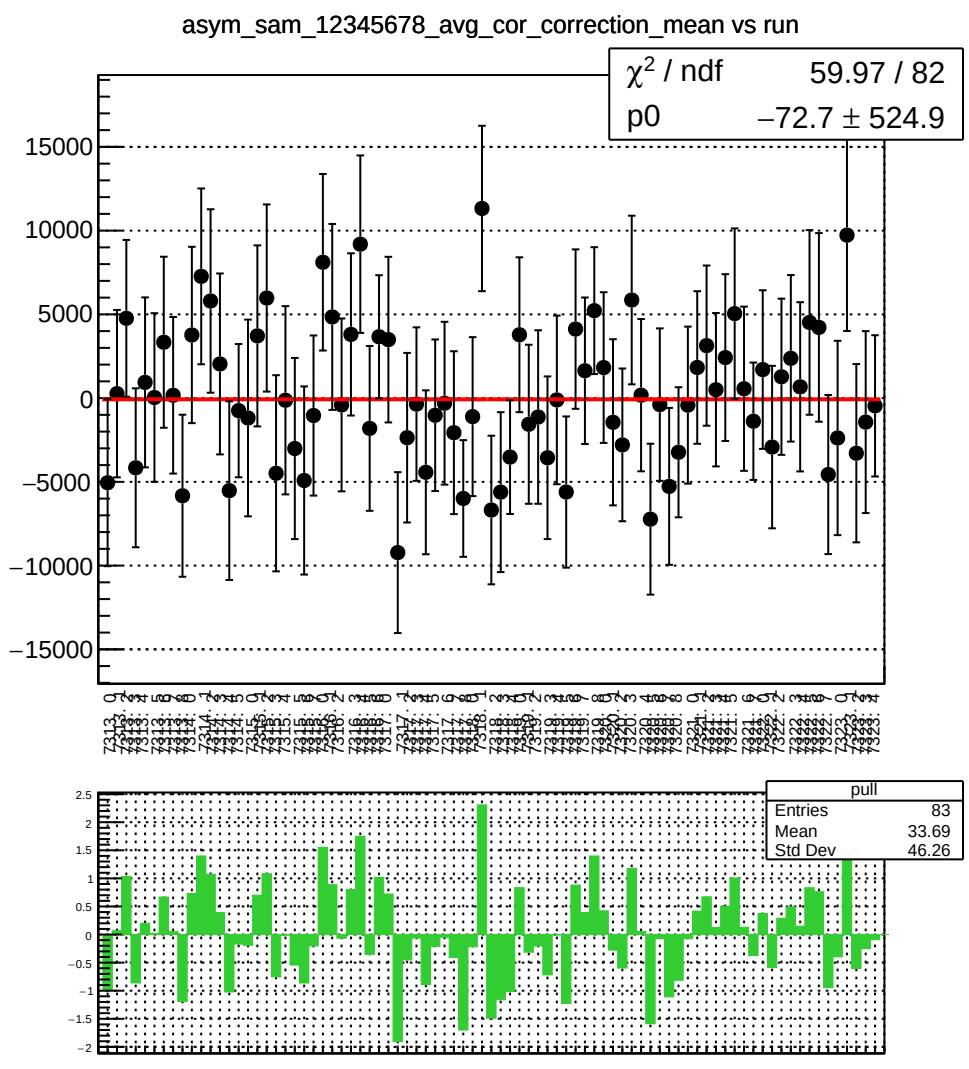

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 59.97 / 82
p0 −72.72 ± 524.9
pull
Entries 83
Mean 33.69
Std Dev 46.26

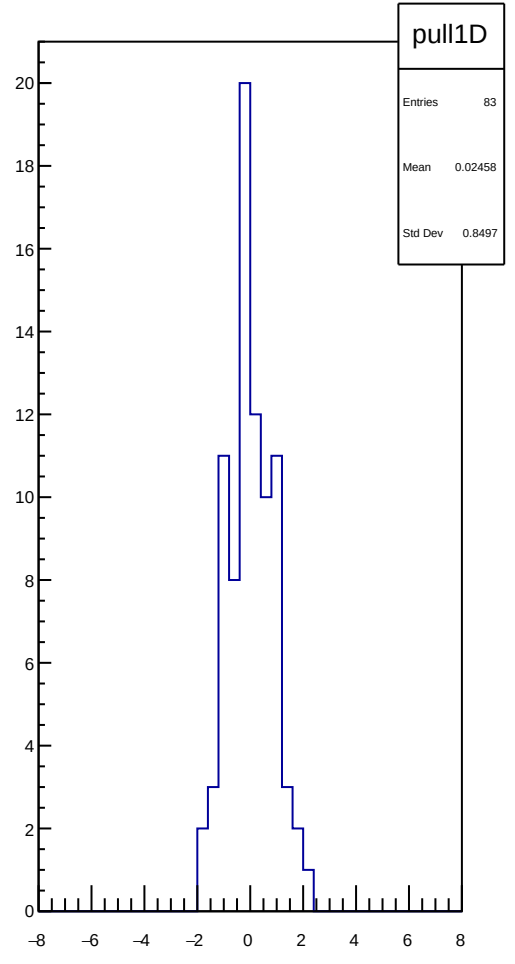

pull1D
Entries 83
Mean 0.02458
Std Dev 0.8497

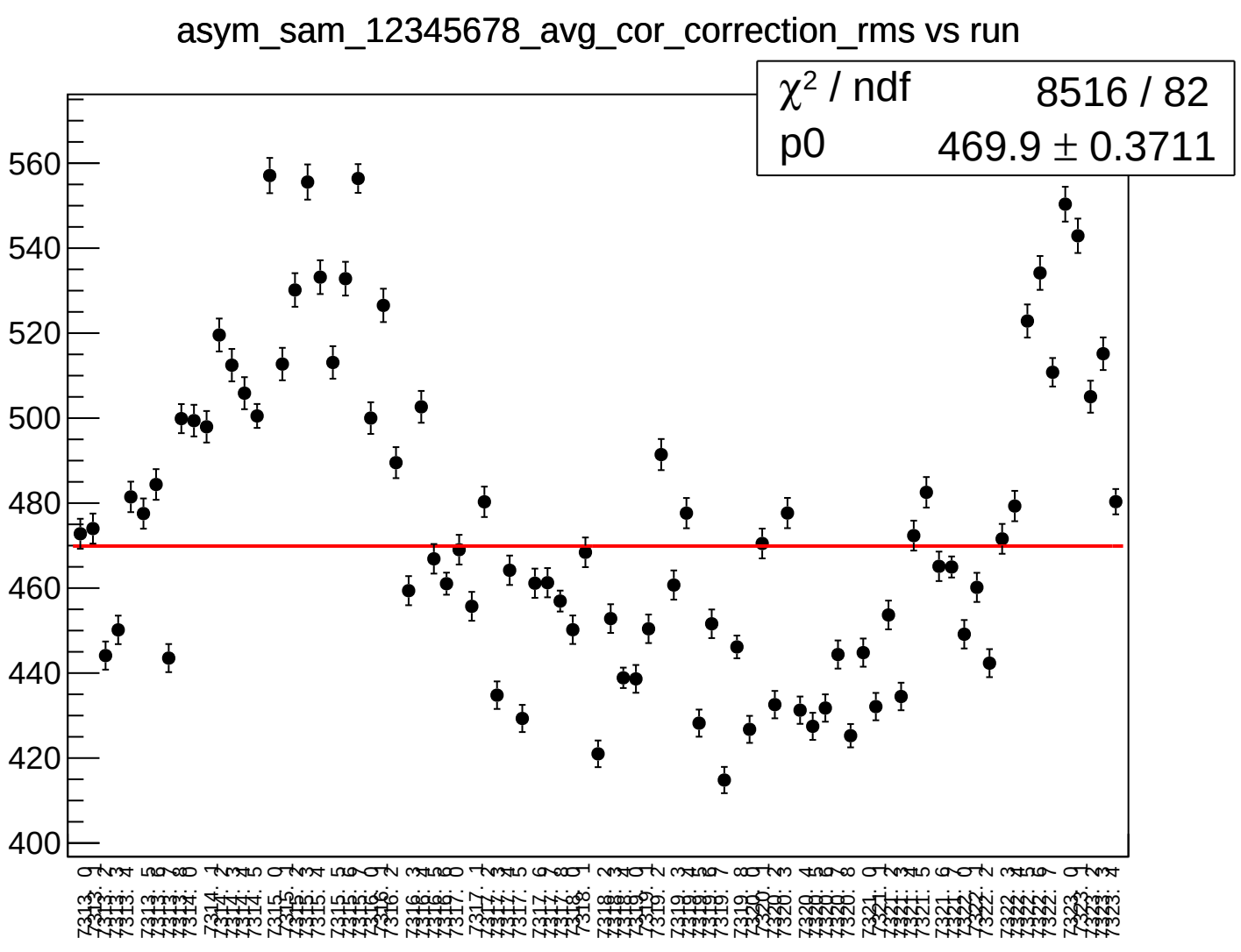

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8516 / 82
p0 469.9 ± 0.3711
560
540
520
500
480
460
440
420
400

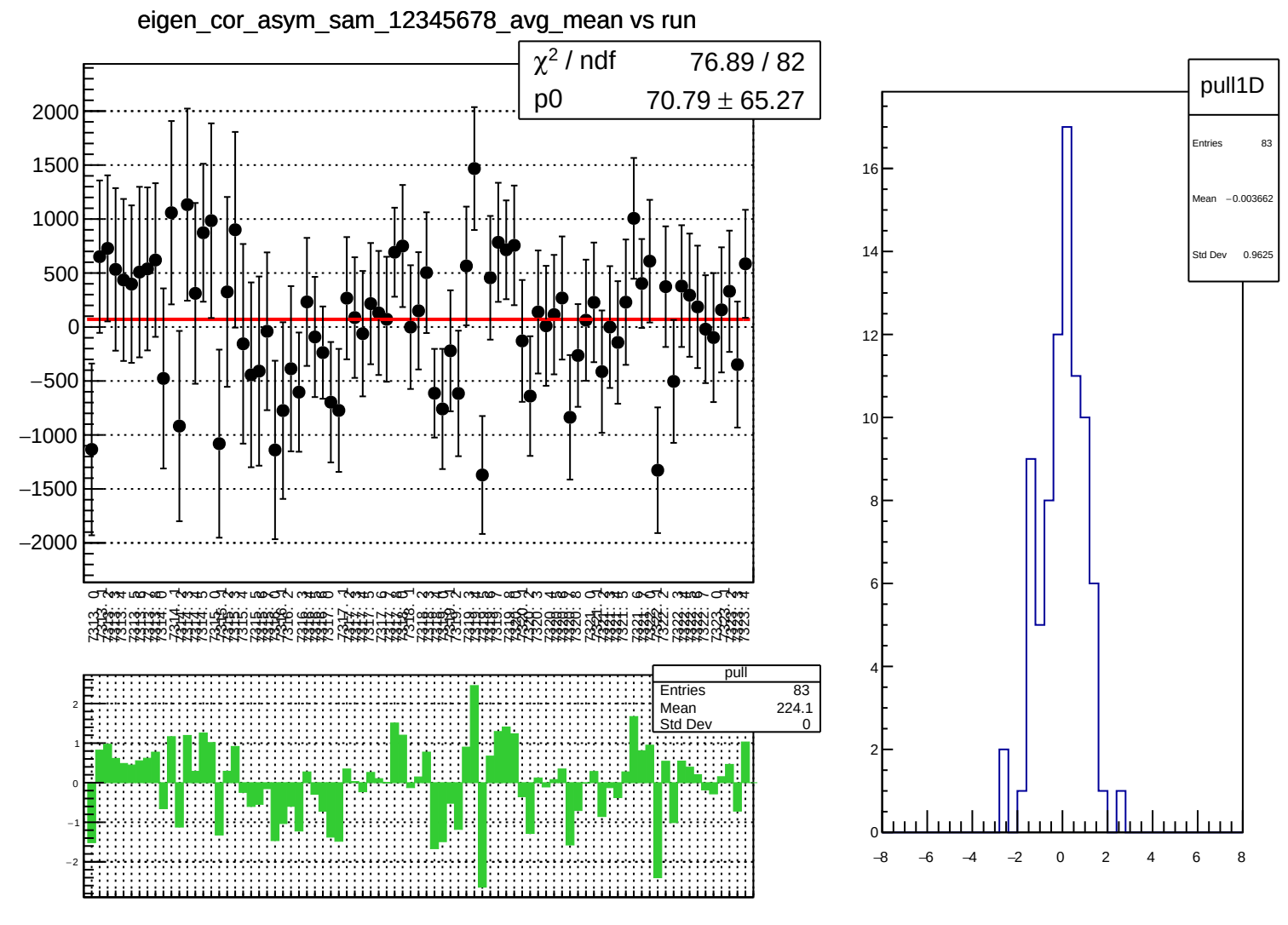

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 76.89 / 82
p0 70.79 ± 65.27
pull
Entries 83
Mean 224.1
Std Dev 0
pull1D
Entries 83
Mean −0.003662
Std Dev 0.9625

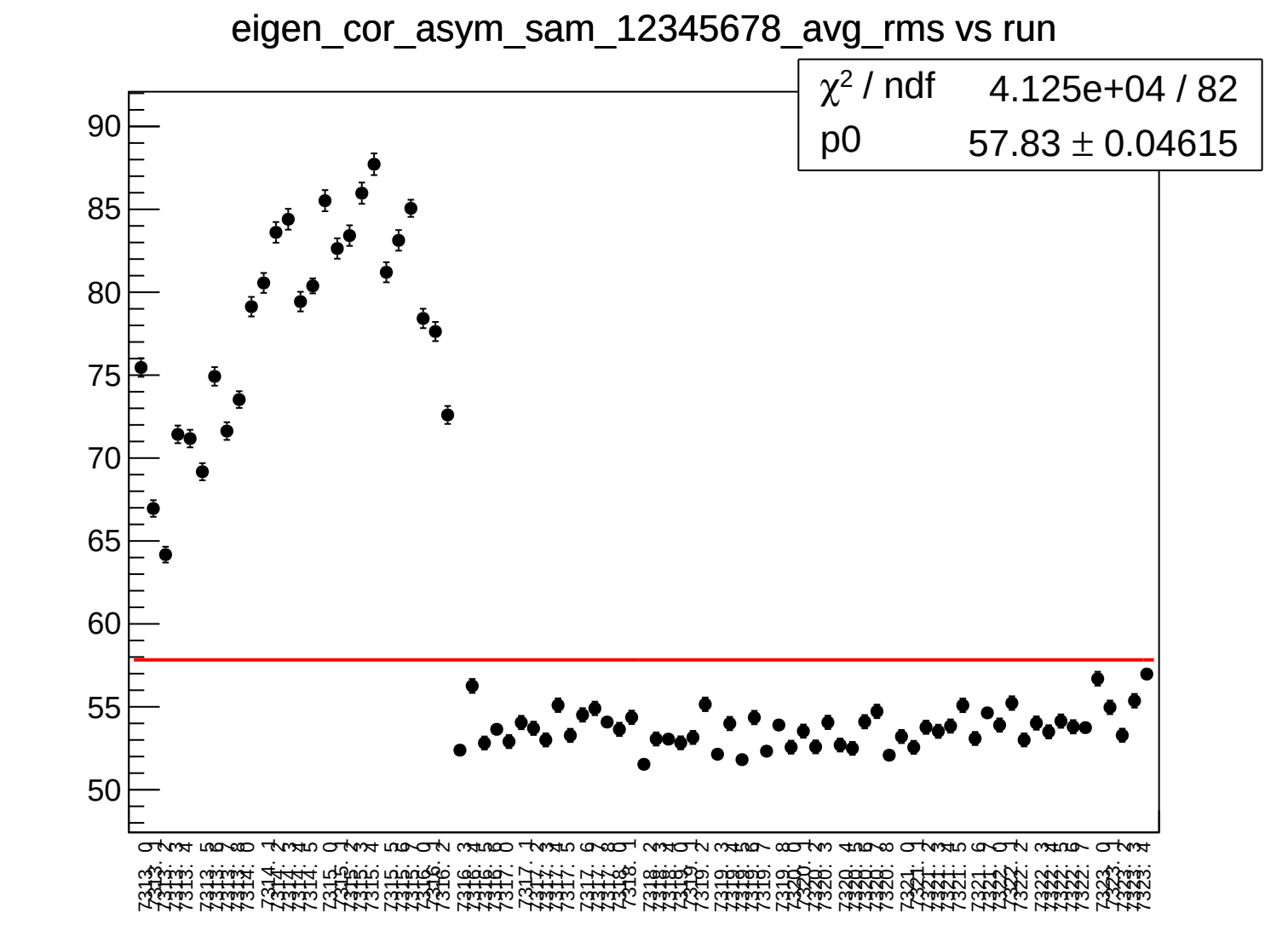

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.125e+04 / 82
p0 57.83 ± 0.04615
90
85
80
75
70
65
60
55
50

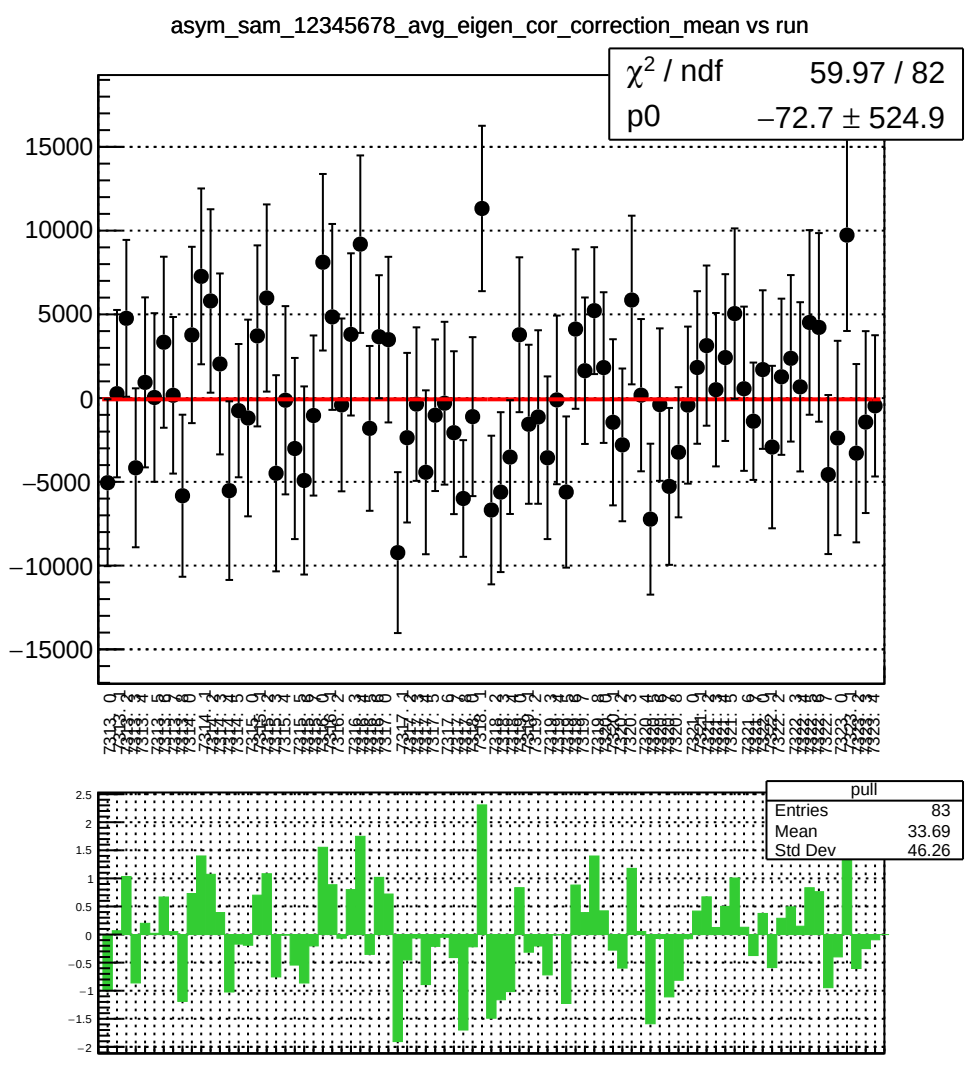

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 59.97 / 82
p0 −72.7 ± 524.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 33.69
Std Dev 46.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

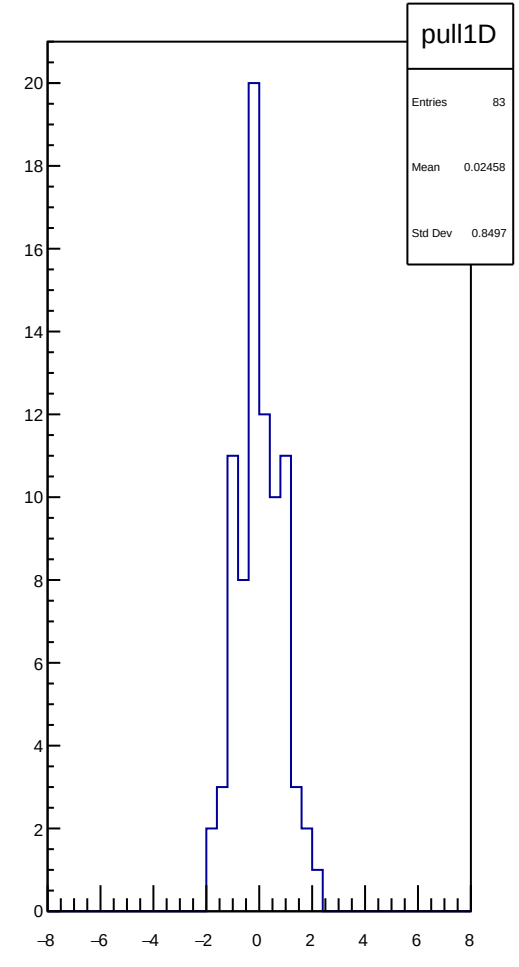

pull1D
Entries 83
Mean 0.02458
Std Dev 0.8497
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

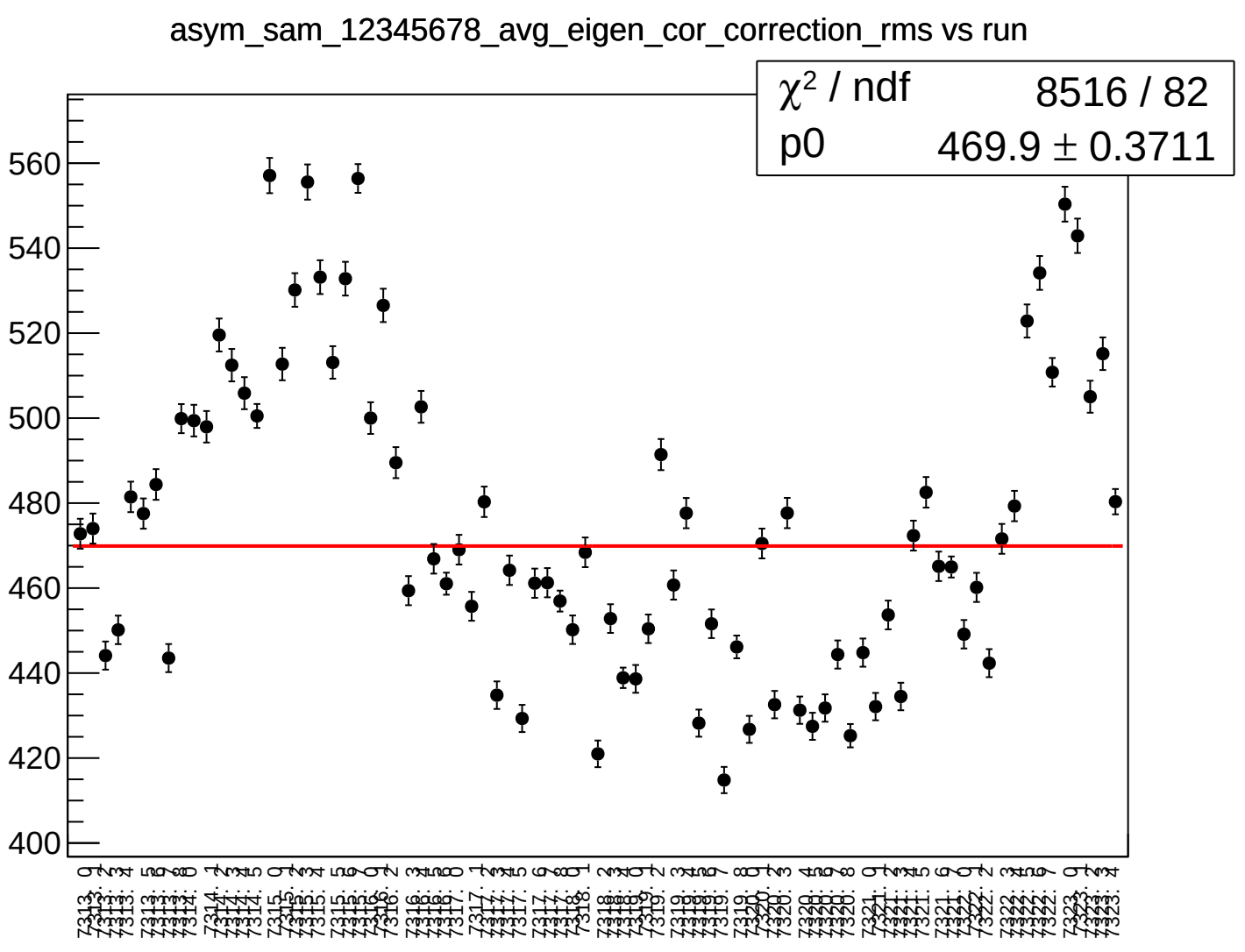

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 8516 / 82
p0 469.9 ± 0.3711
560
540
520
500
480
460
440
420
400

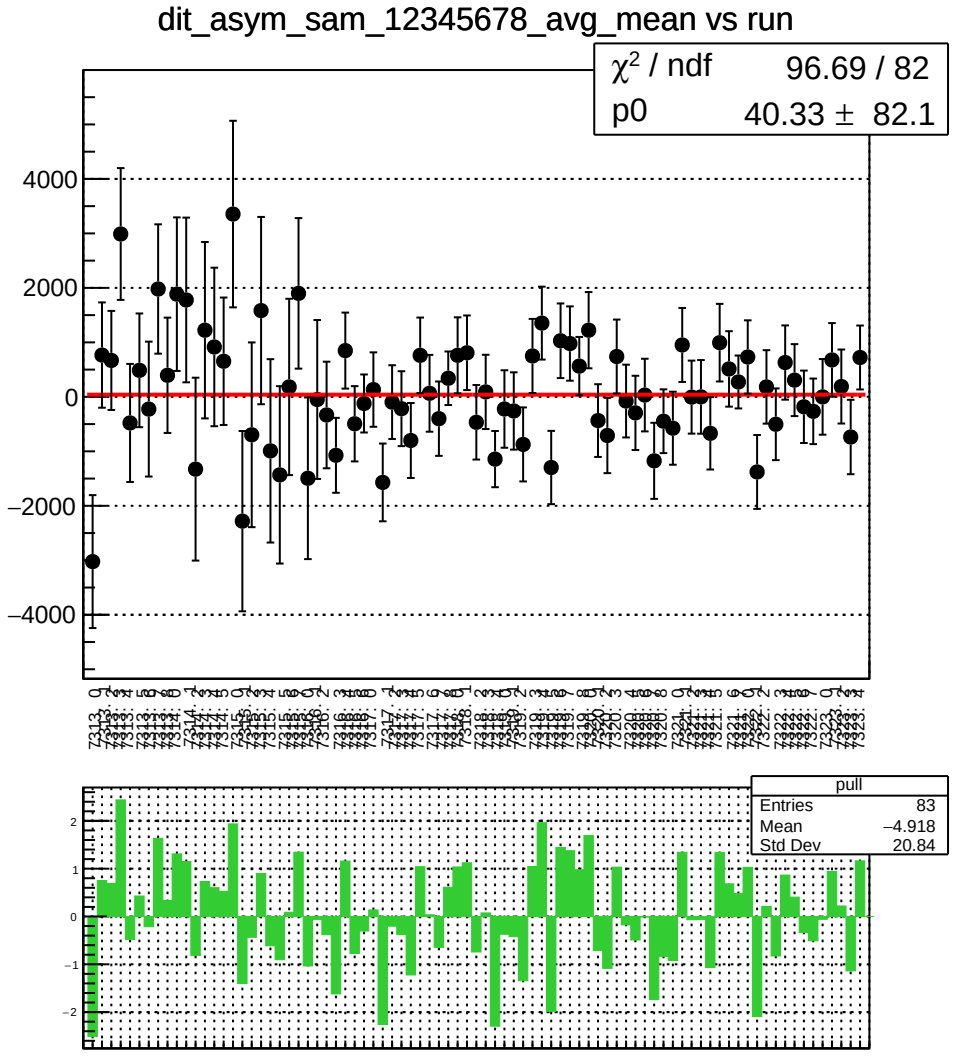

eigen_cor_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 76.89 / 82
p0 70.79 ± 65.27
pull
Entries 83
Mean 224.1
Std Dev 0
pull1D
Entries 83
Mean −0.003662
Std Dev 0.9625

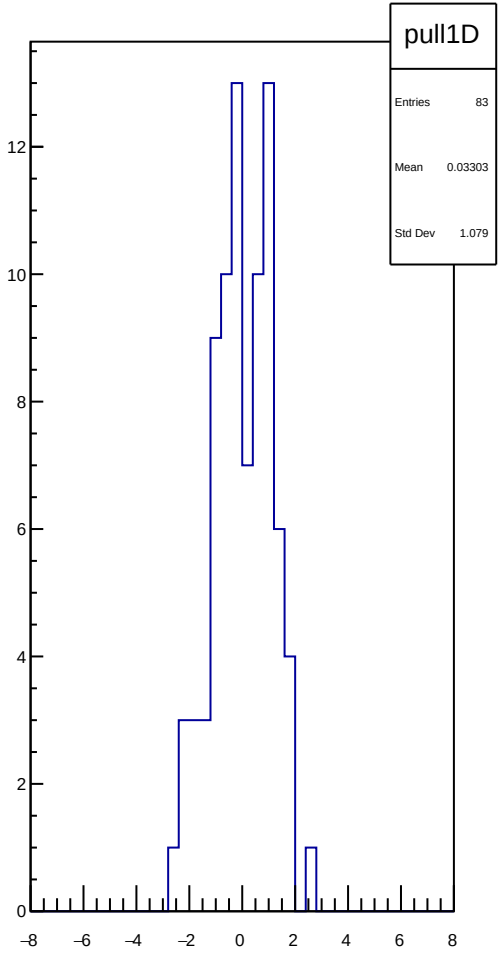

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.125e+04 / 82
p0 57.83 ± 0.04615
90
85
80
75
70
65
60
55
50

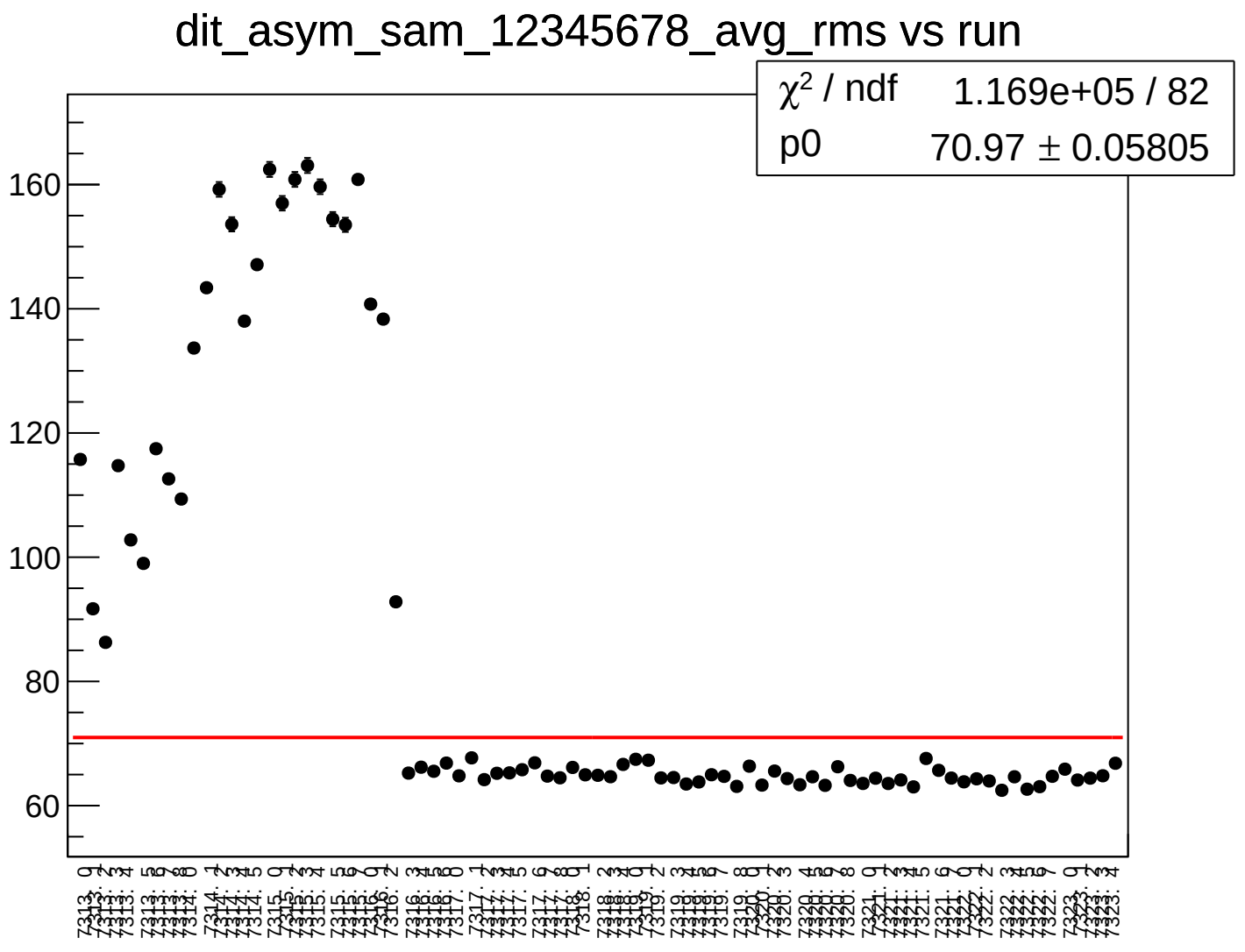

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 59.97 / 82
p0 −72.7 ± 524.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 33.69
Std Dev 46.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

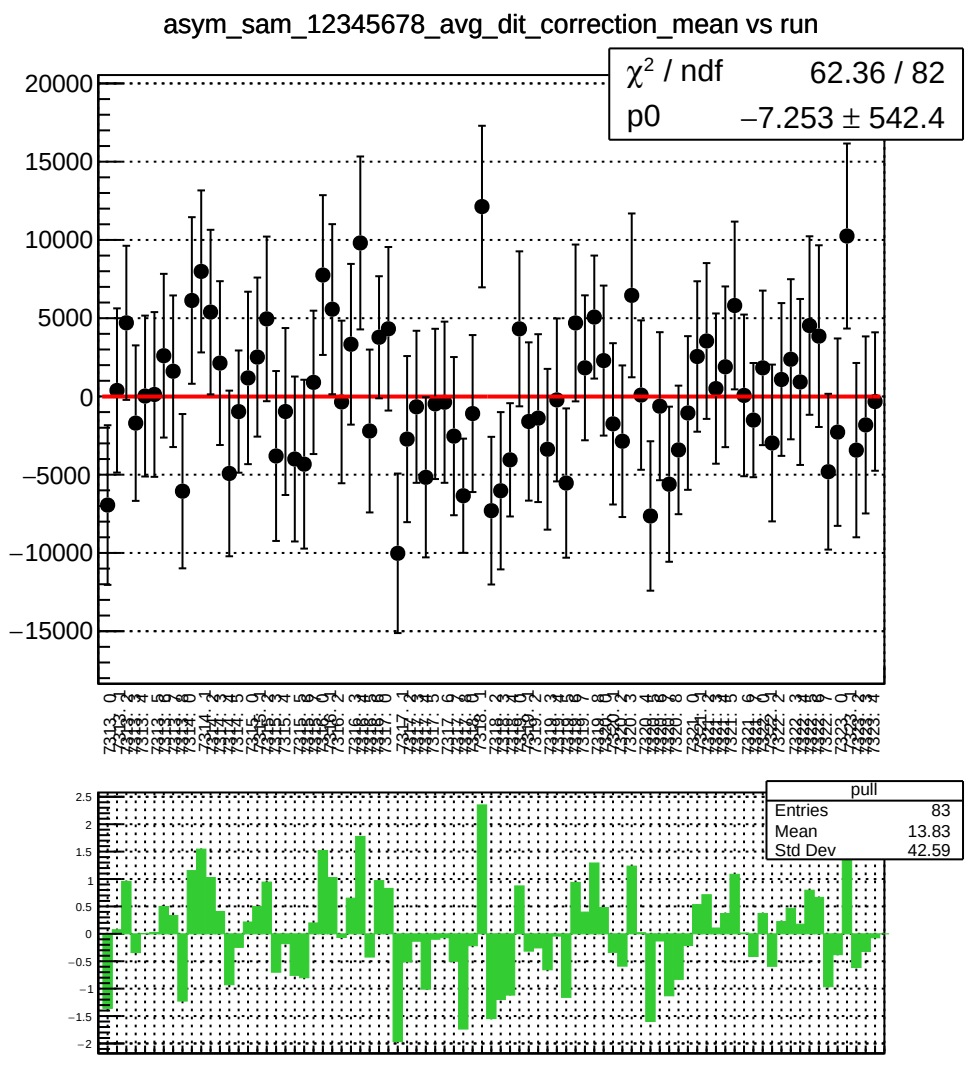

pull1D
Entries 83
Mean 0.02458
Std Dev 0.8497
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

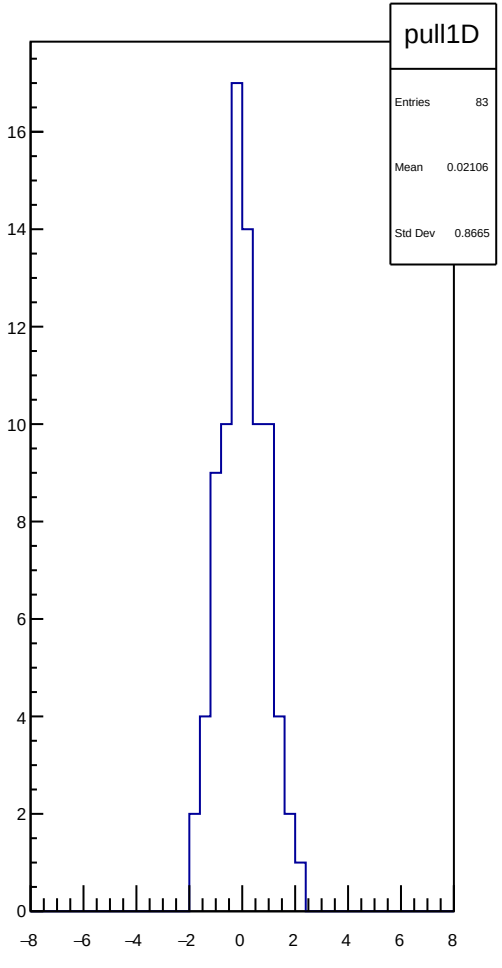

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8516 / 82
p0 469.9 ± 0.3711
560
540
520
500
480
460
440
420
400

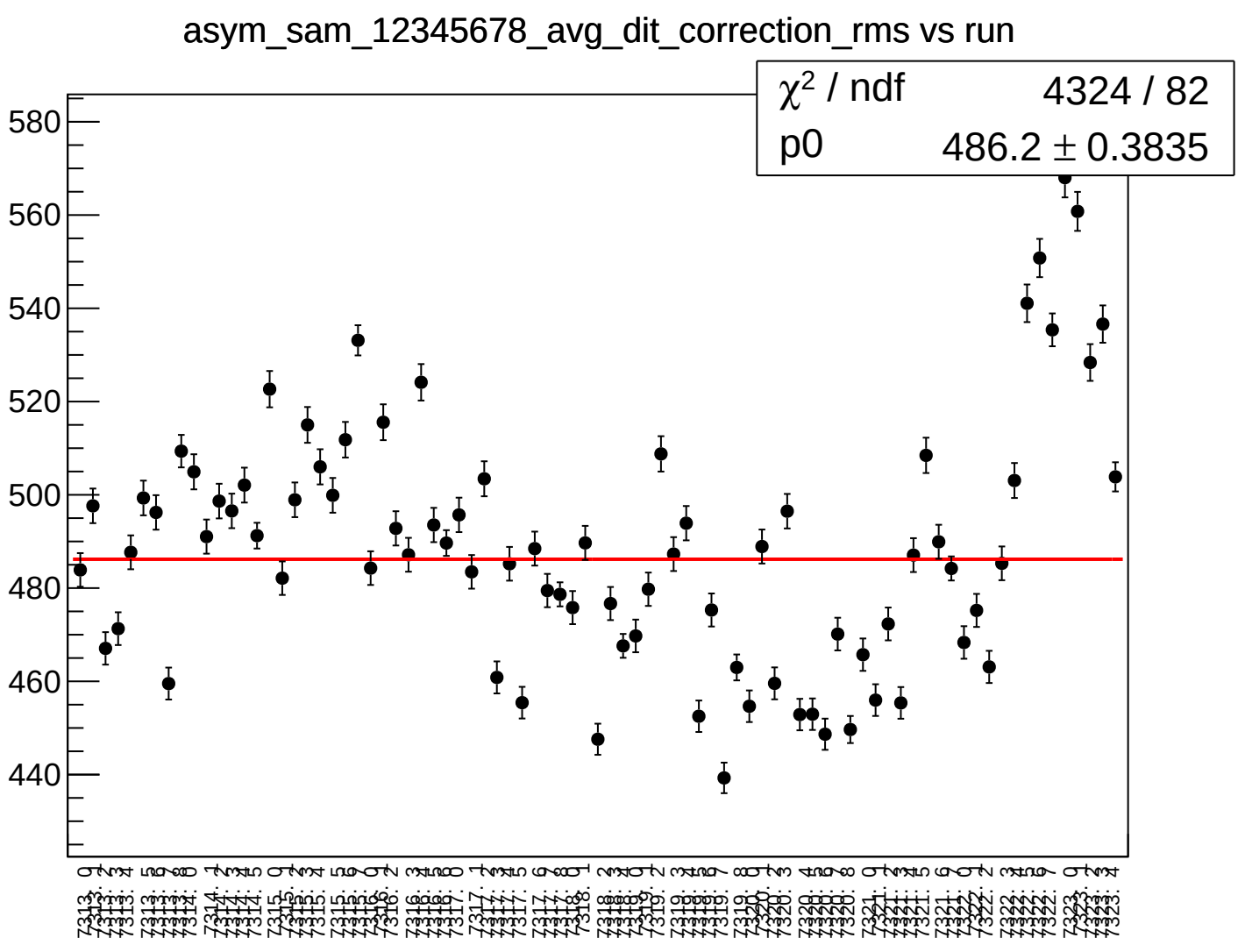

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 96.69 / 82
p0 40.33 ± 82.1
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −4.918
Std Dev 20.84
2
1
0
−1
−2

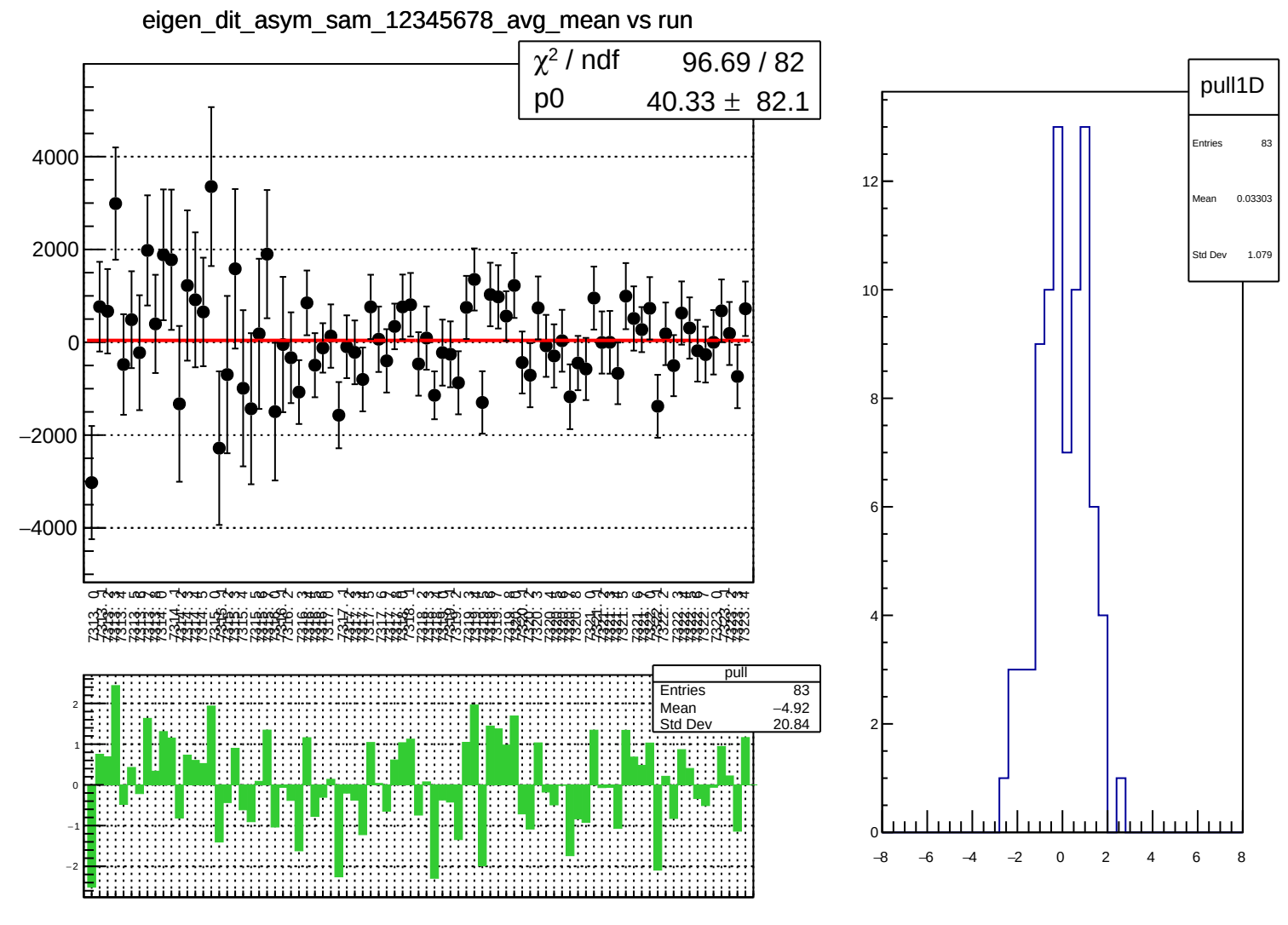

pull1D
Entries 83
Mean 0.03303
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

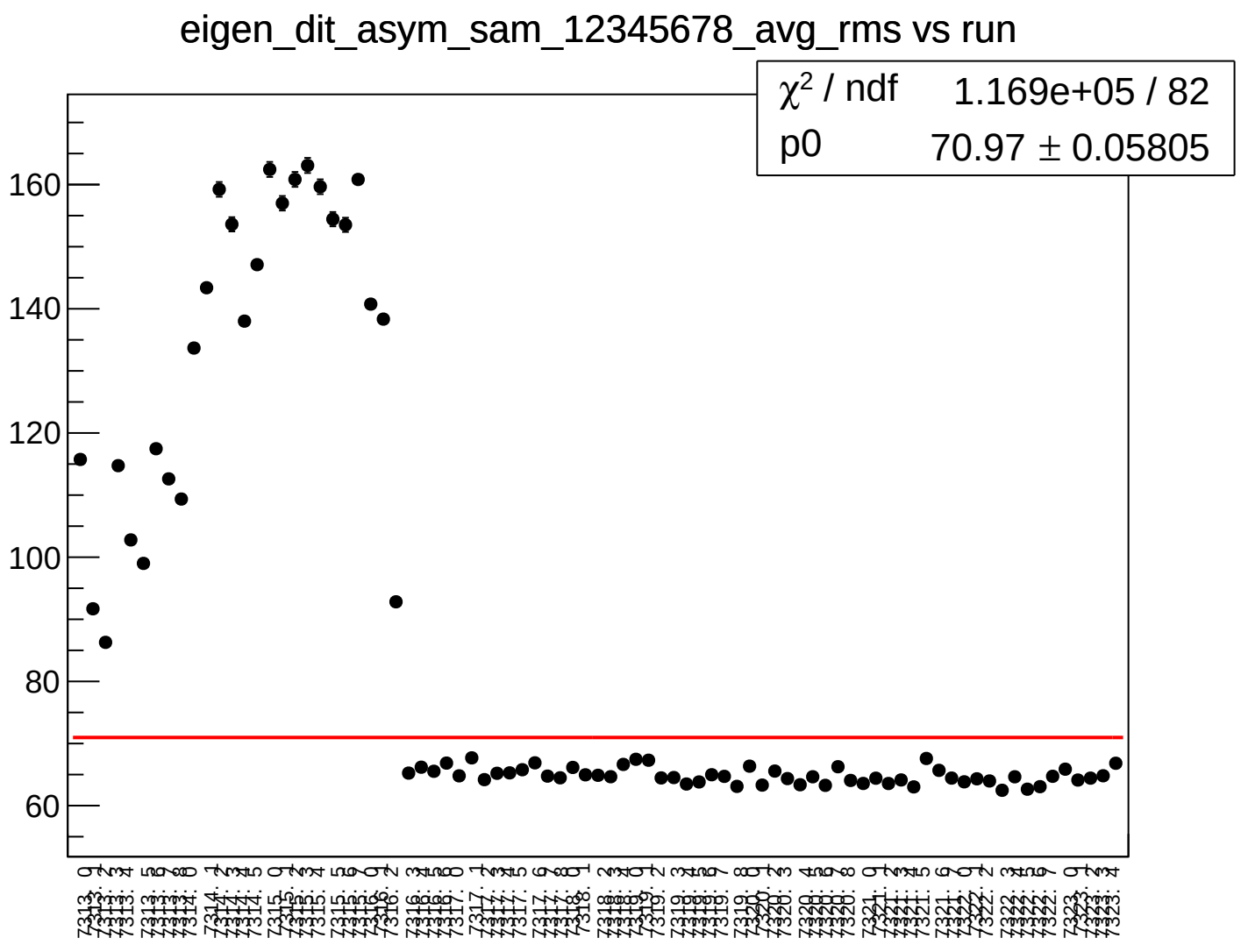

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.169e+05 / 82
p0 70.97 ± 0.05805
160
140
120
100
80
60

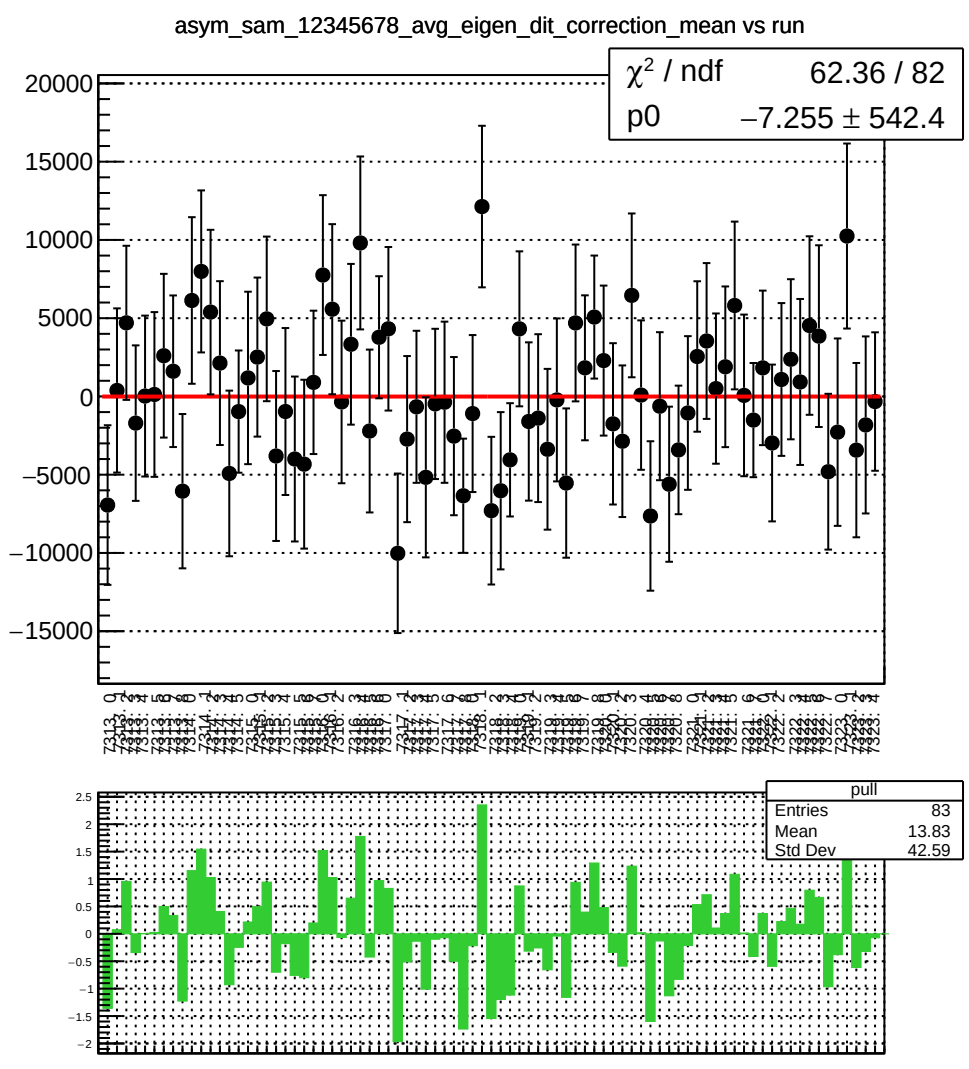

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 62.36 / 82
p0 −7.253 ± 542.4
pull
Entries 83
Mean 13.83
Std Dev 42.59

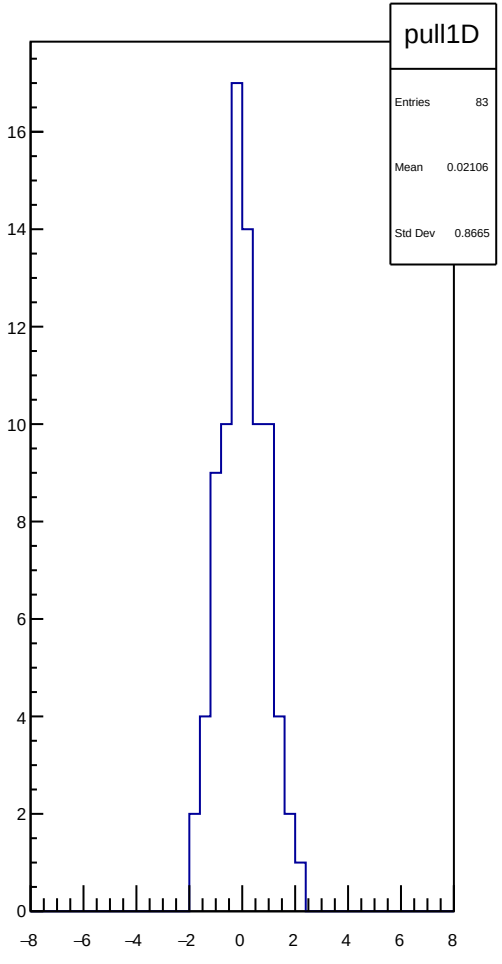

pull1D
Entries 83
Mean 0.02106
Std Dev 0.8665

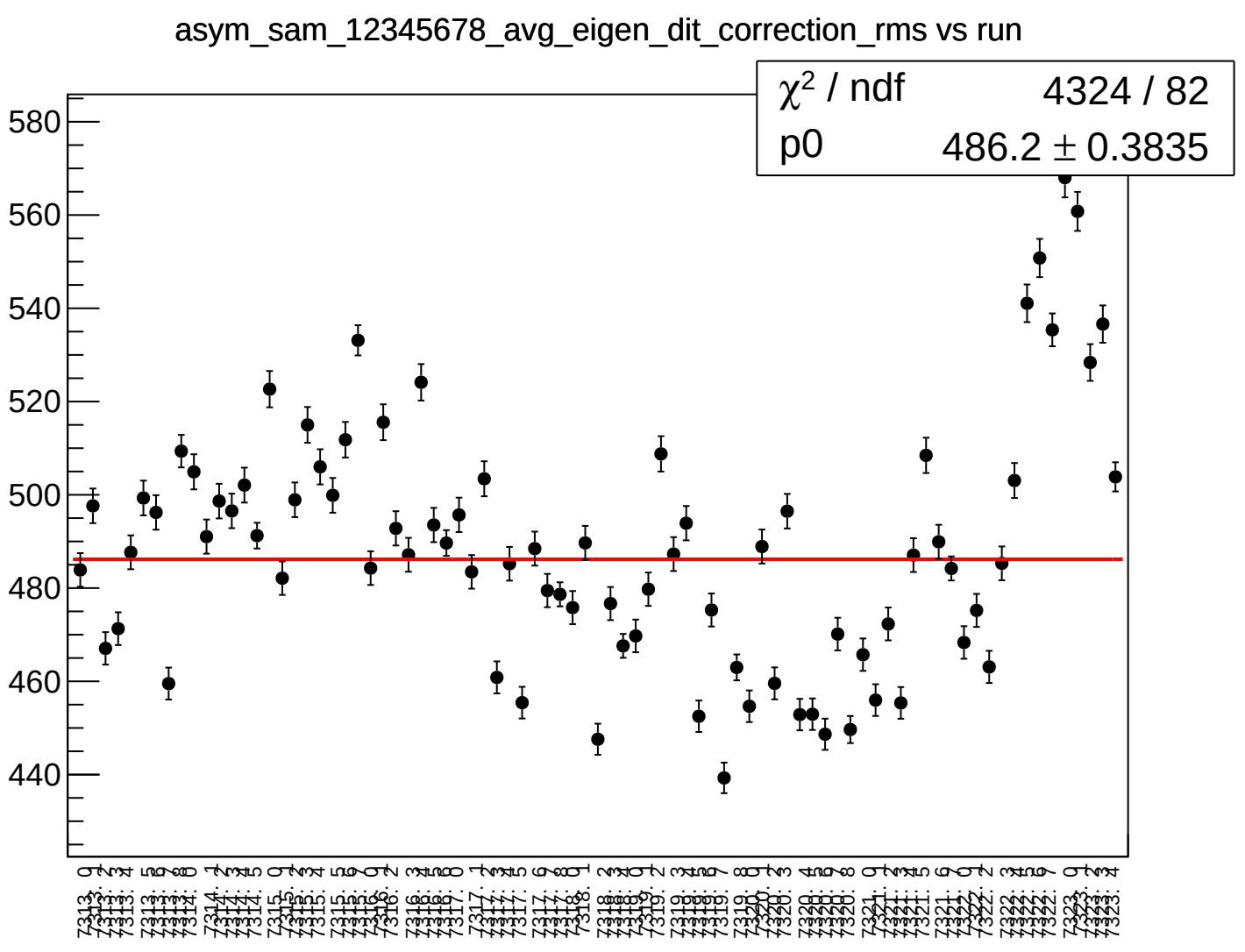

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 4324 / 82
p0 486.2 ± 0.3835
580
560
540
520
500
480
460
440

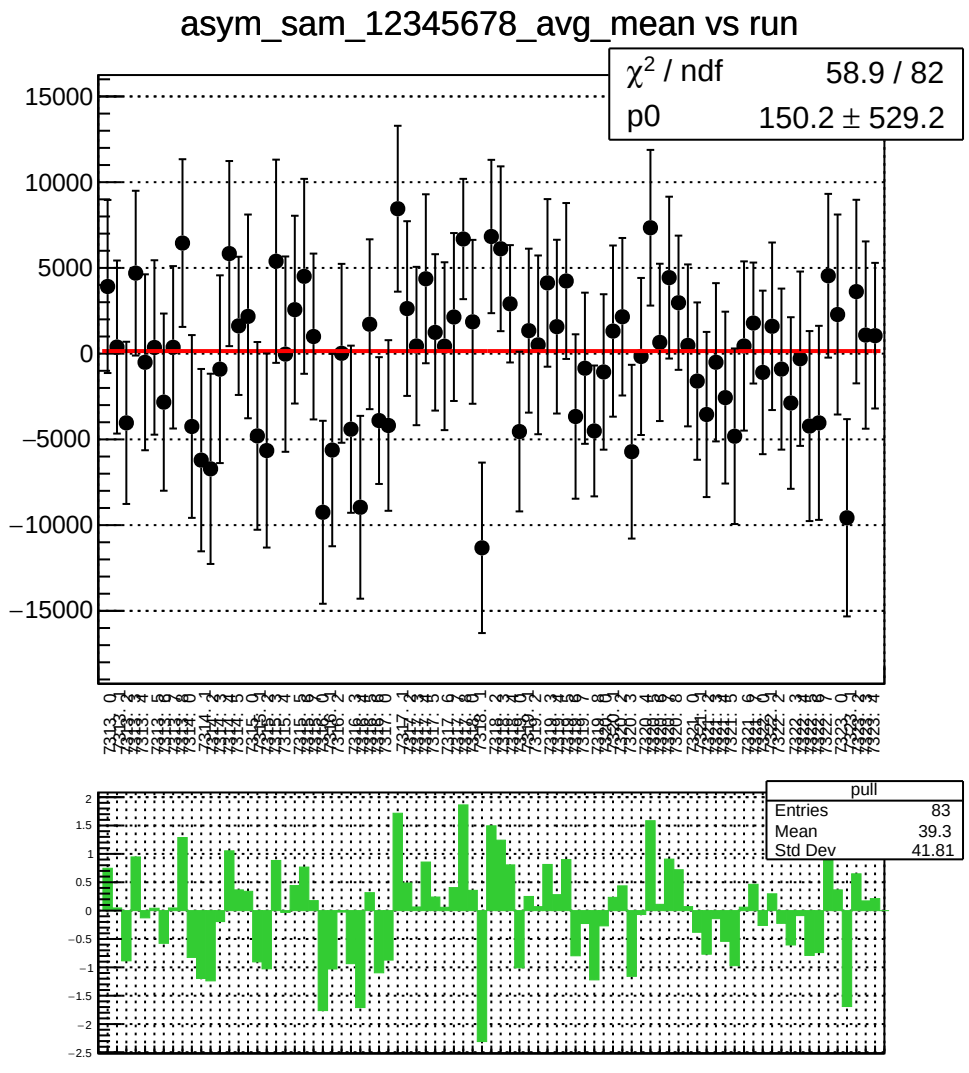

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 96.69 / 82
p0 40.33 ± 82.1
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −4.92
Std Dev 20.84
pull1D
Entries 83
Mean 0.03303
Std Dev 1.079

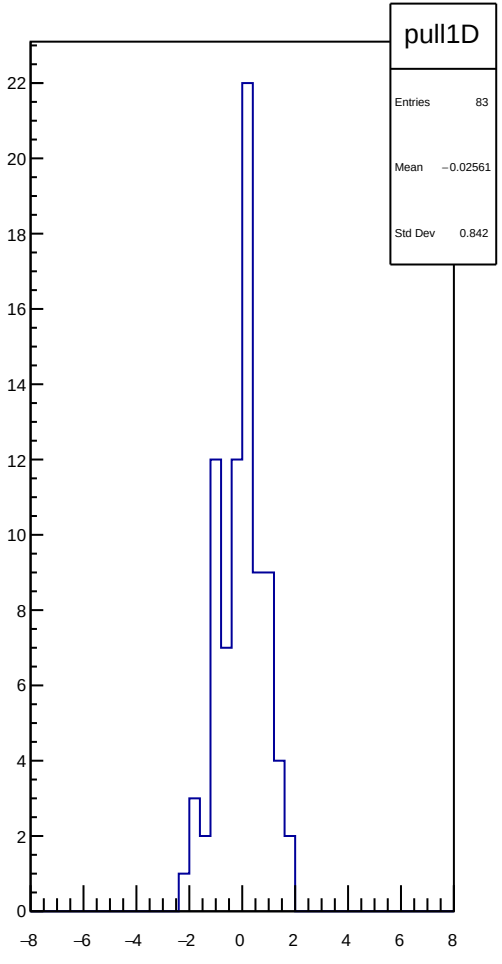

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.169e+05 / 82
p0 70.97 ± 0.05805
160
140
120
100
80
60

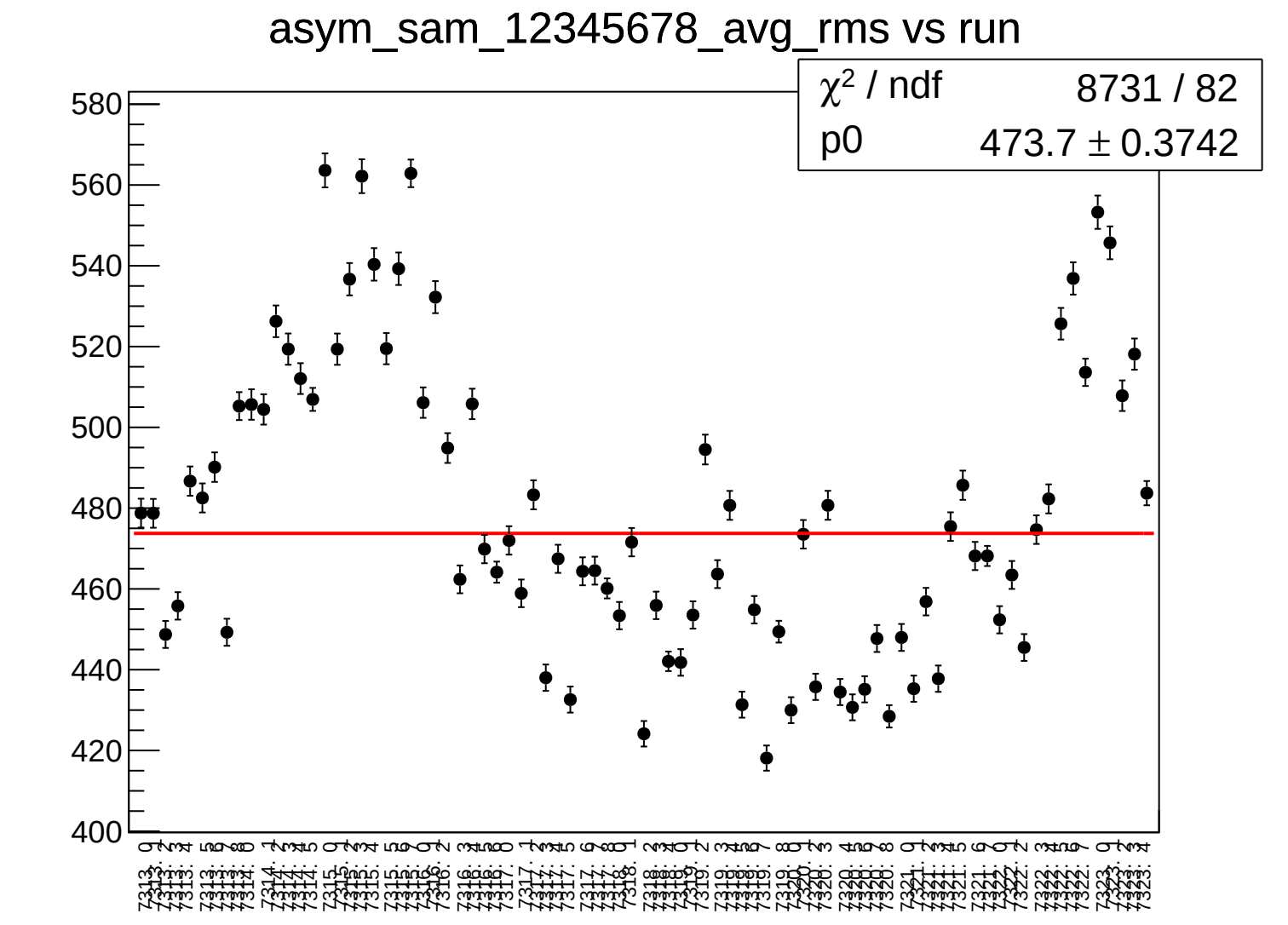

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.36 / 82
p0 −7.255 ± 542.4
pull
Entries 83
Mean 13.83
Std Dev 42.59

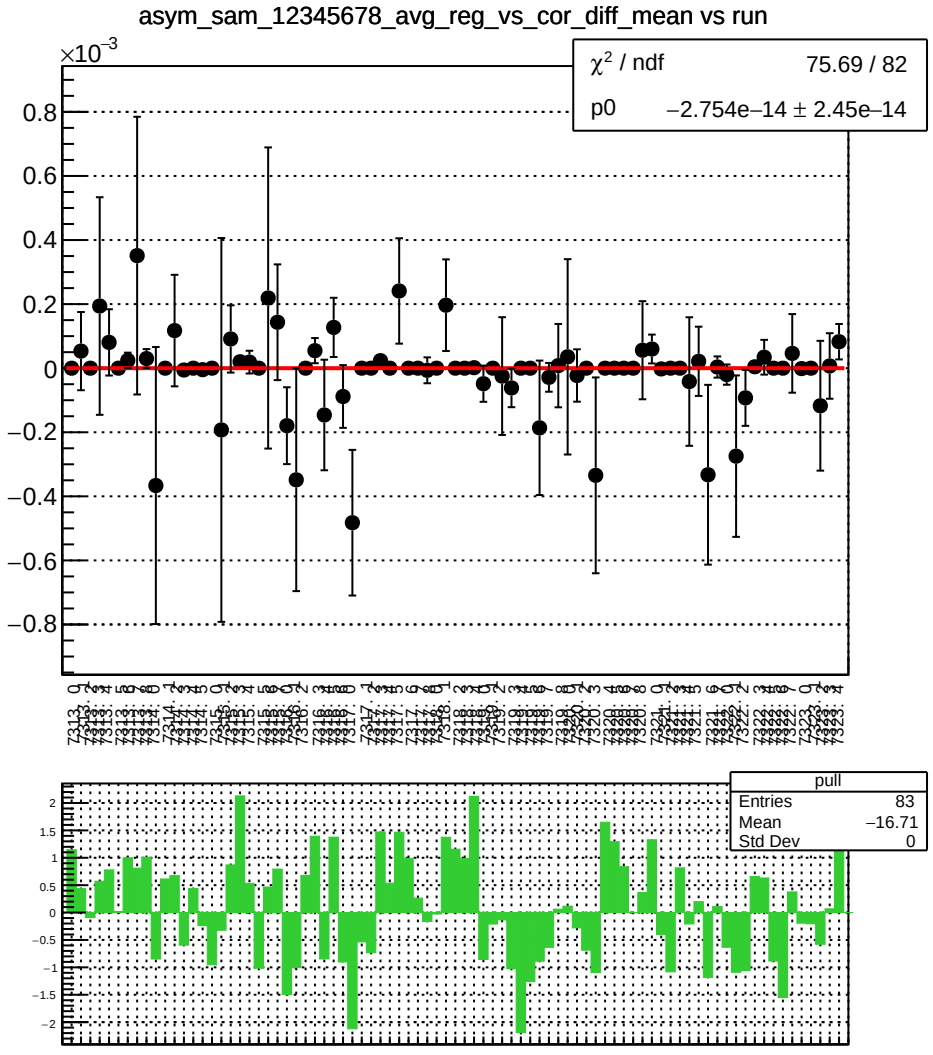

pull1D
Entries 83
Mean 0.02106
Std Dev 0.8665

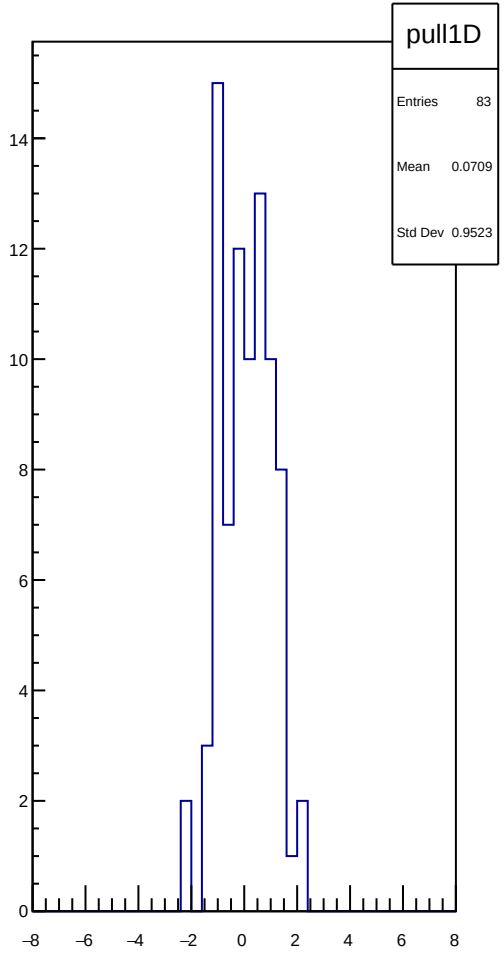

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 4324 / 82
p0 486.2 ± 0.3835
580
560
540
520
500
480
460
440

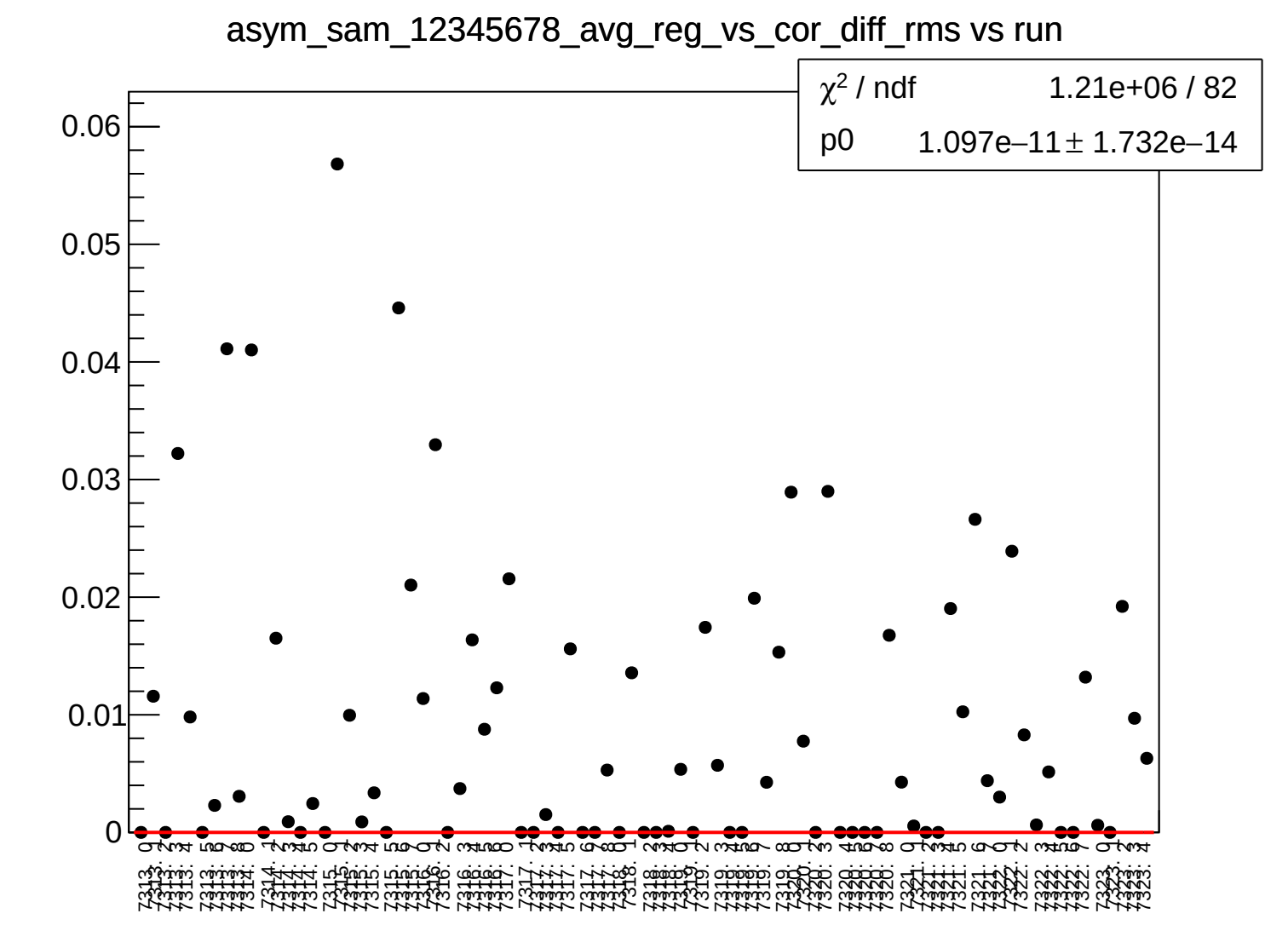

asym_sam_12345678_avg_mean vs run
χ² / ndf 58.9 / 82
p0 150.2 ± 529.2
pull
Entries 83
Mean 39.3
Std Dev 41.81

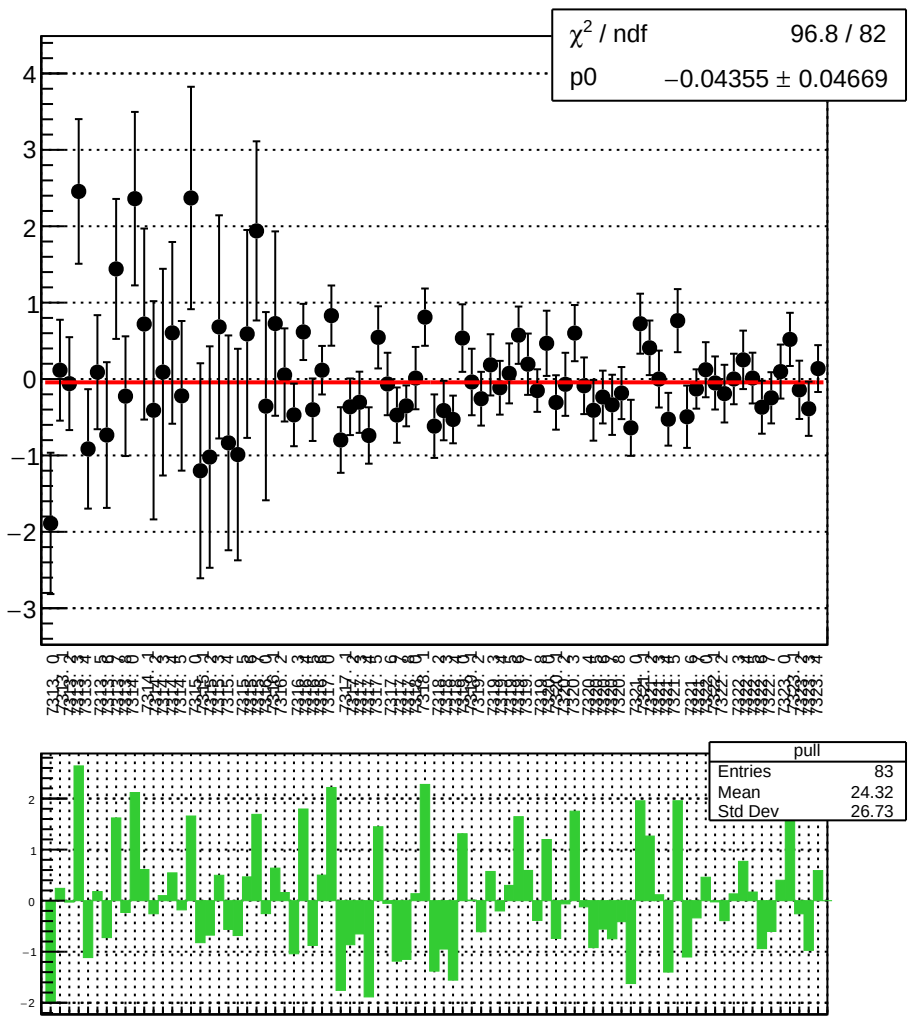

pull1D
Entries 83
Mean −0.02561
Std Dev 0.842

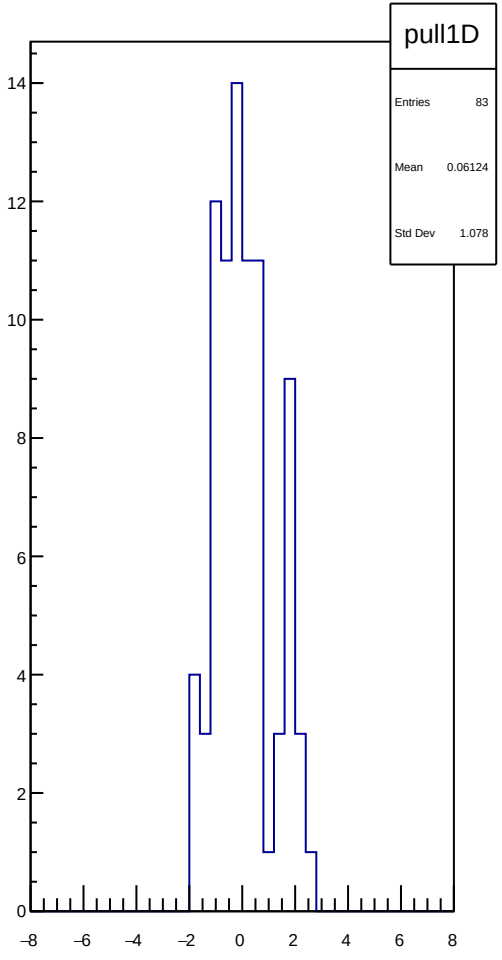

asym_sam_12345678_avg_rms vs run
χ² / ndf 8731 / 82
p0 473.7 ± 0.3742
580
560
540
520
500
480
460
440
420
400

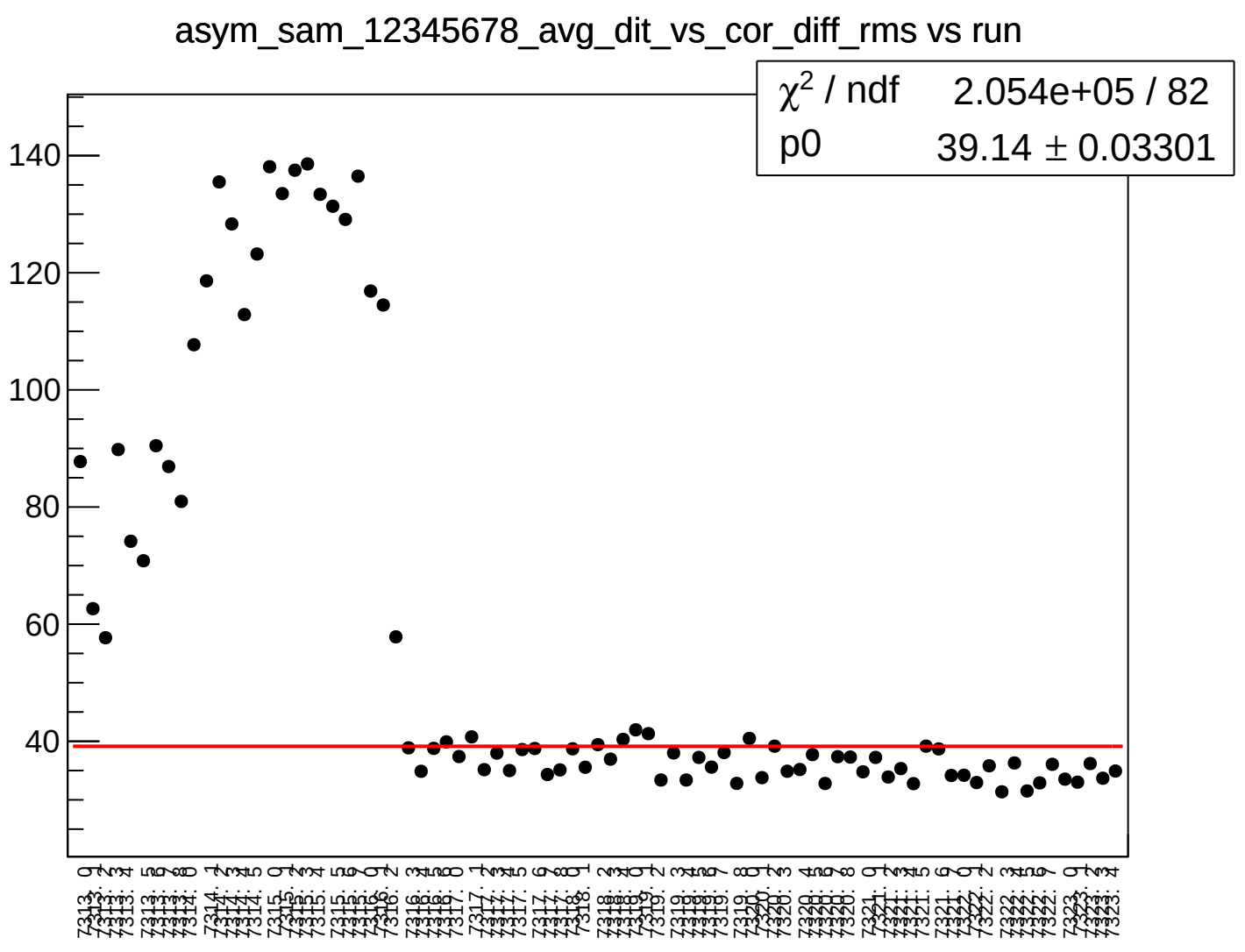

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.69 / 82
p0 −2.754e−14 ± 2.45e−14
pull
Entries 83
Mean −16.71
Std Dev 0

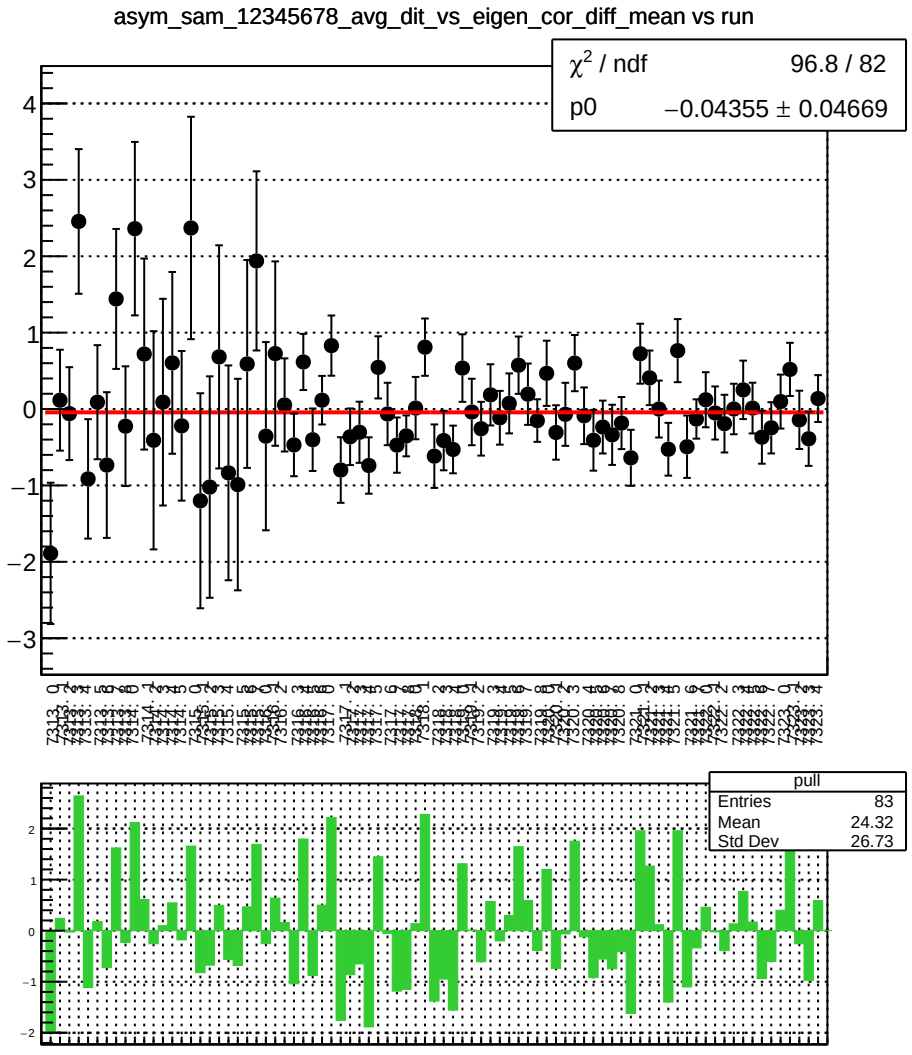

pull1D
Entries 83
Mean 0.0709
Std Dev 0.9523

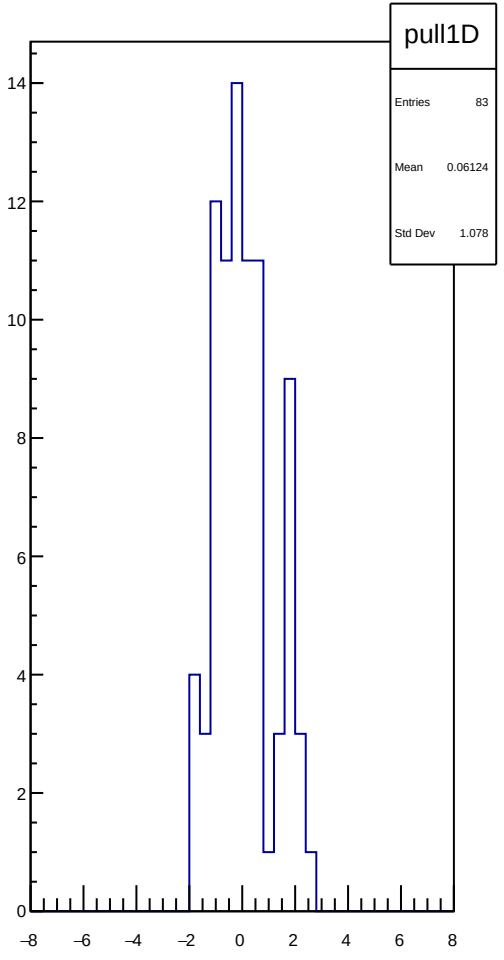

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 82
p0 1.097e−11 ± 1.732e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

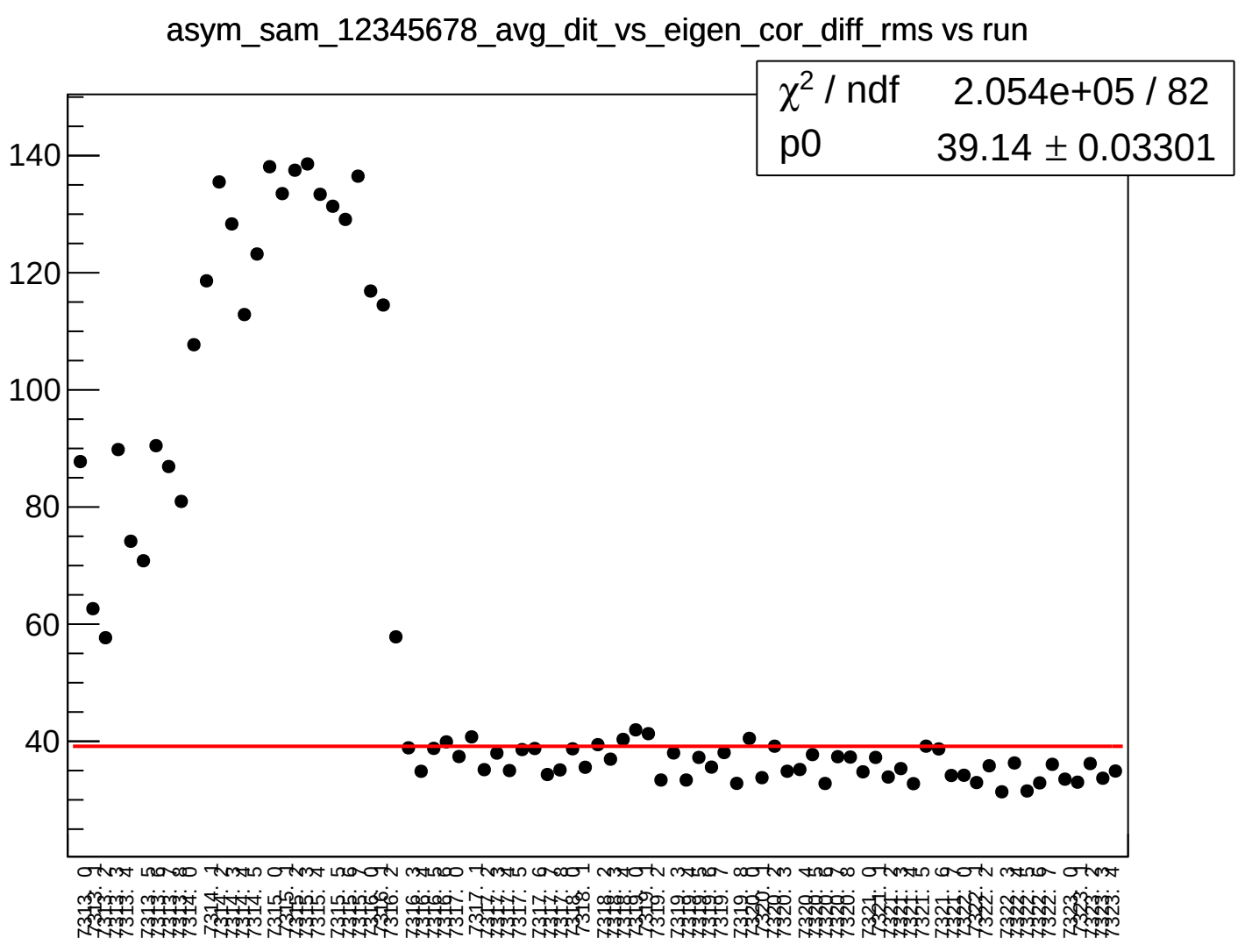

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.8 / 82
p0 −0.04355 ± 0.04669
pull
Entries 83
Mean 24.32
Std Dev 26.73

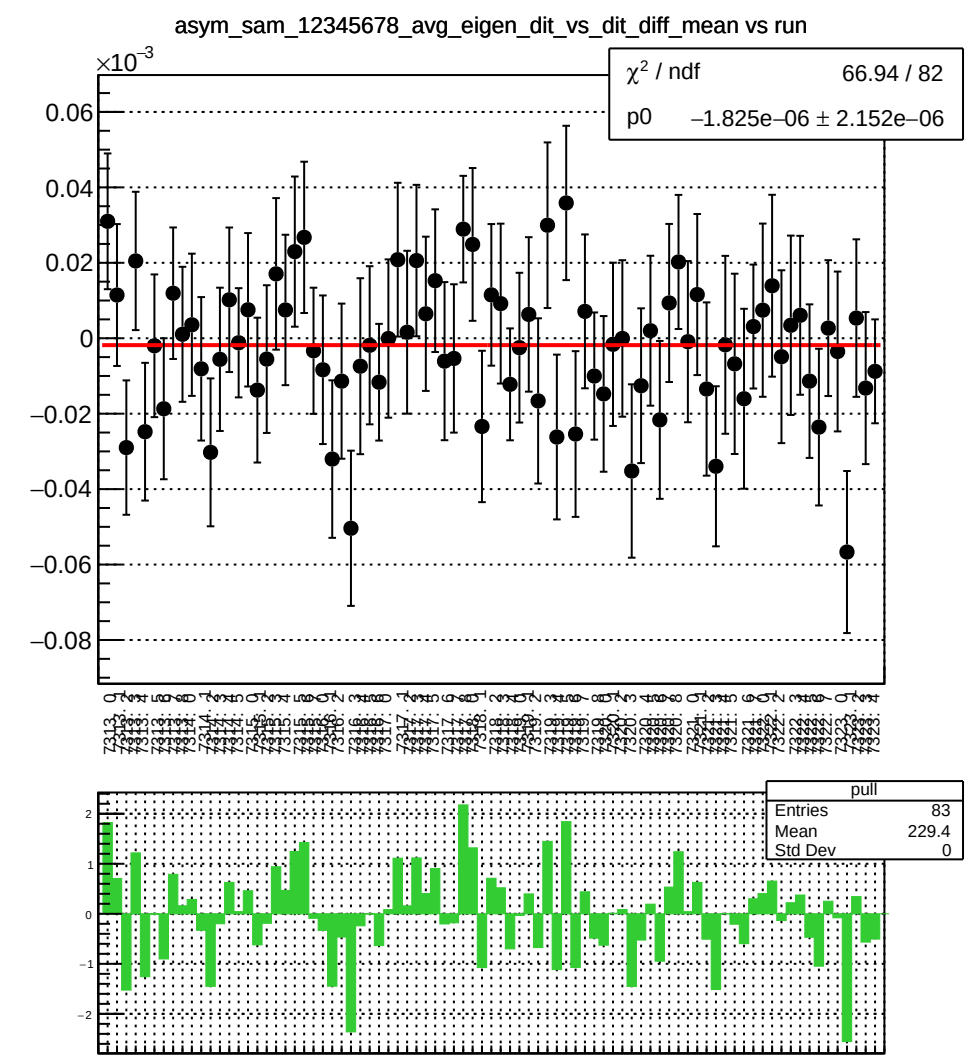

pull1D
Entries 83
Mean 0.06124
Std Dev 1.078

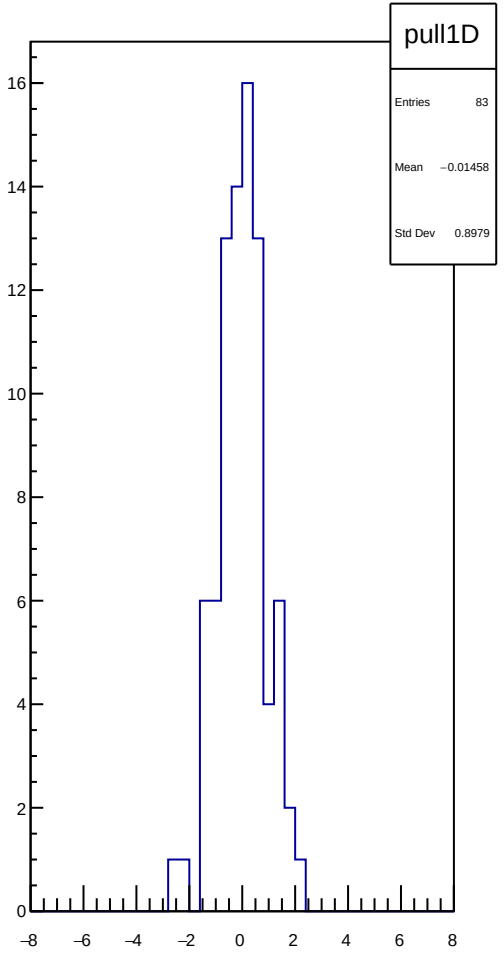

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 82
p0 39.14 ± 0.03301
140
120
100
80
60
40

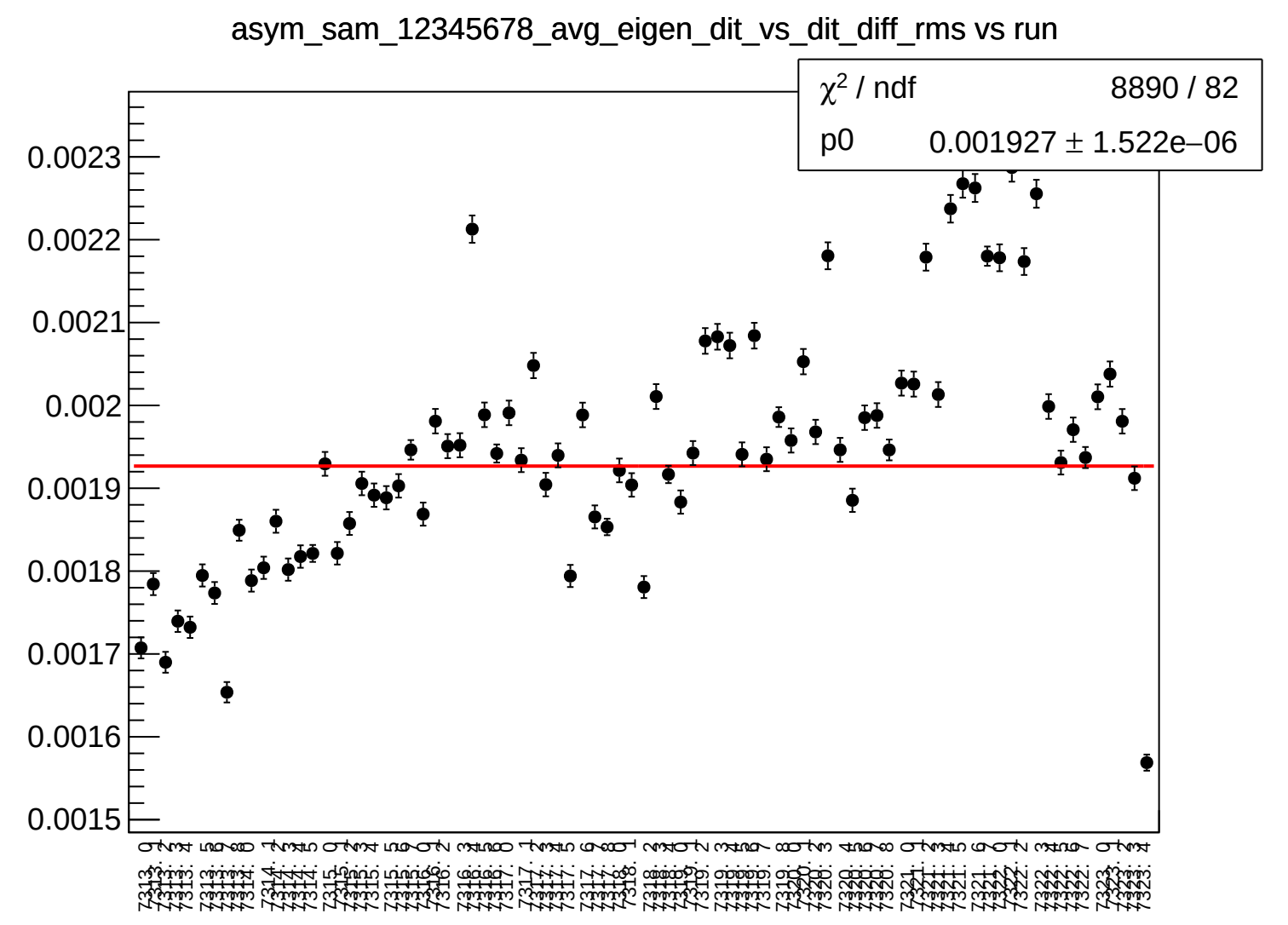

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.8 / 82
p0 −0.04355 ± 0.04669
pull
Entries 83
Mean 24.32
Std Dev 26.73

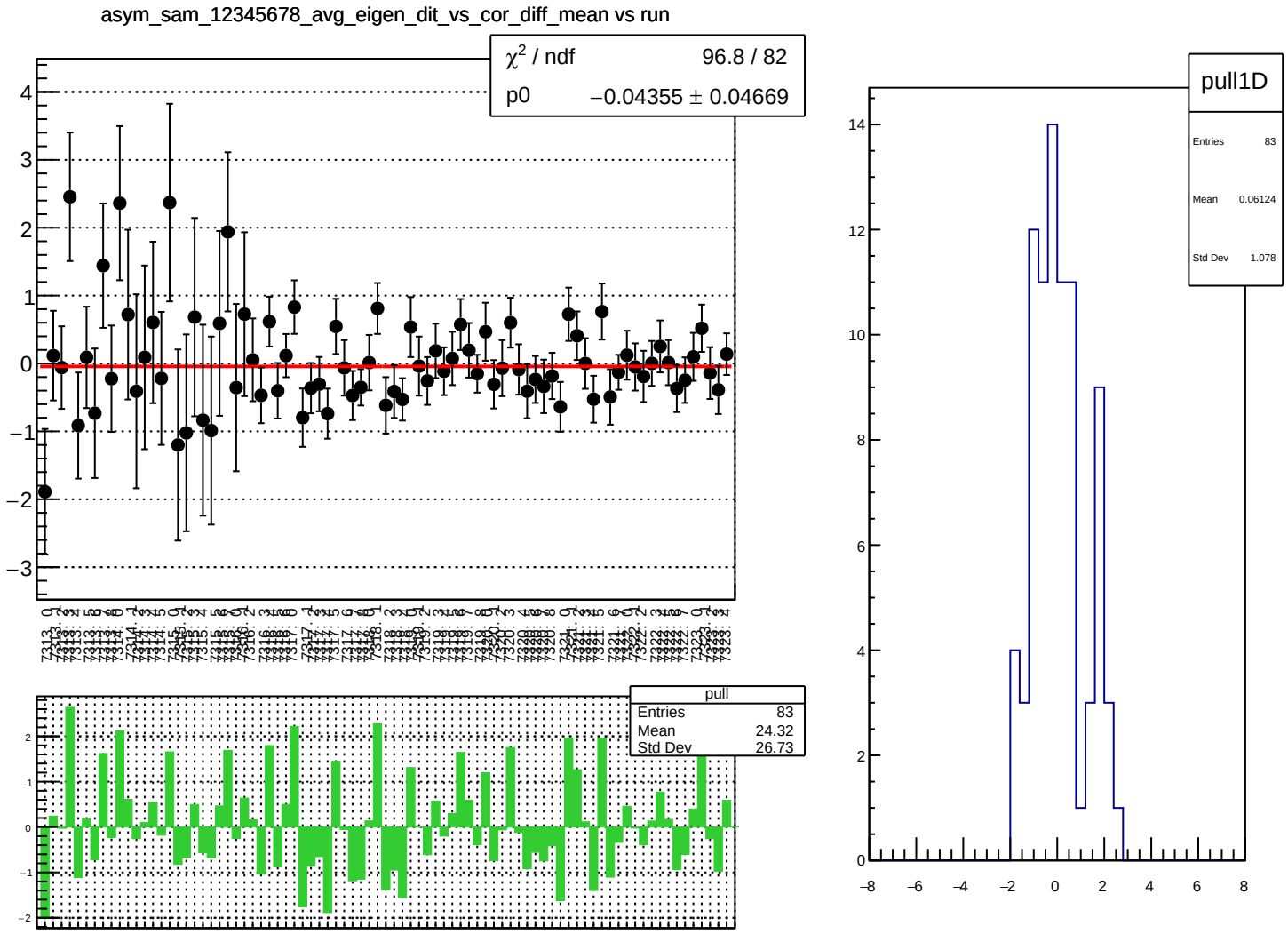

pull1D
Entries 83
Mean 0.06124
Std Dev 1.078

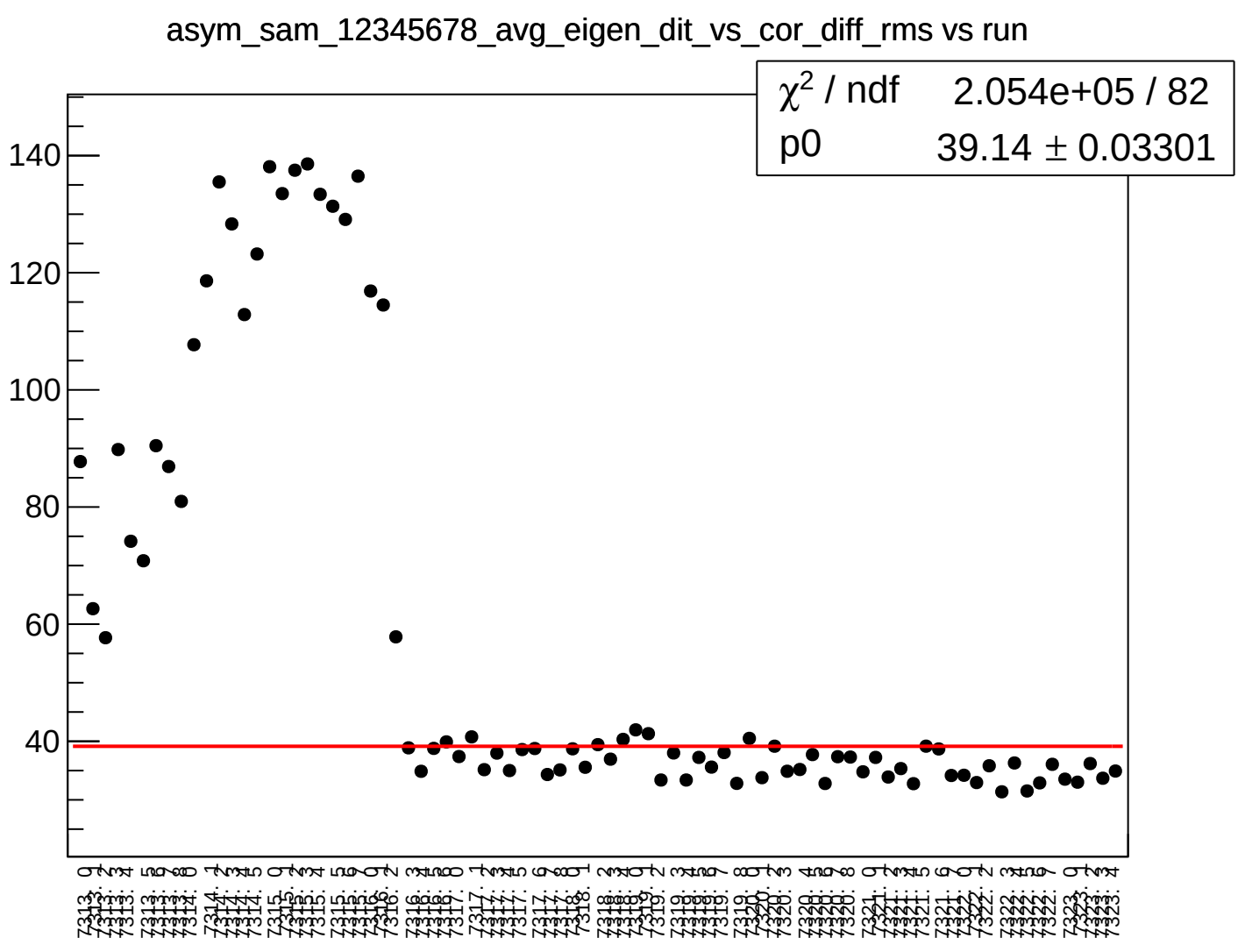

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 82
p0 39.14 ± 0.03301
140
120
100
80
60
40

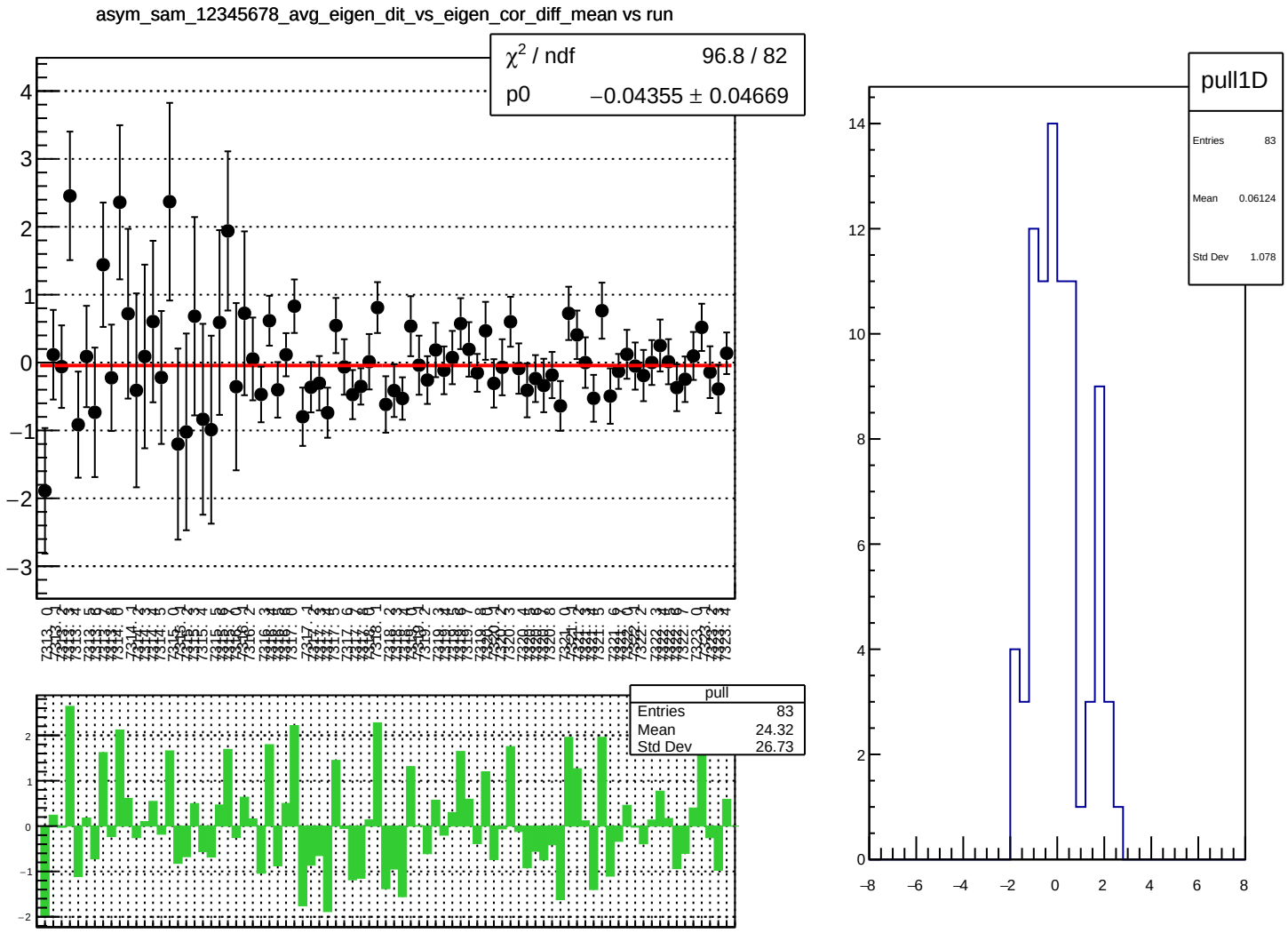

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.94 / 82
p0 −1.825e−06 ± 2.152e−06
pull
Entries 83
Mean 229.4
Std Dev 0

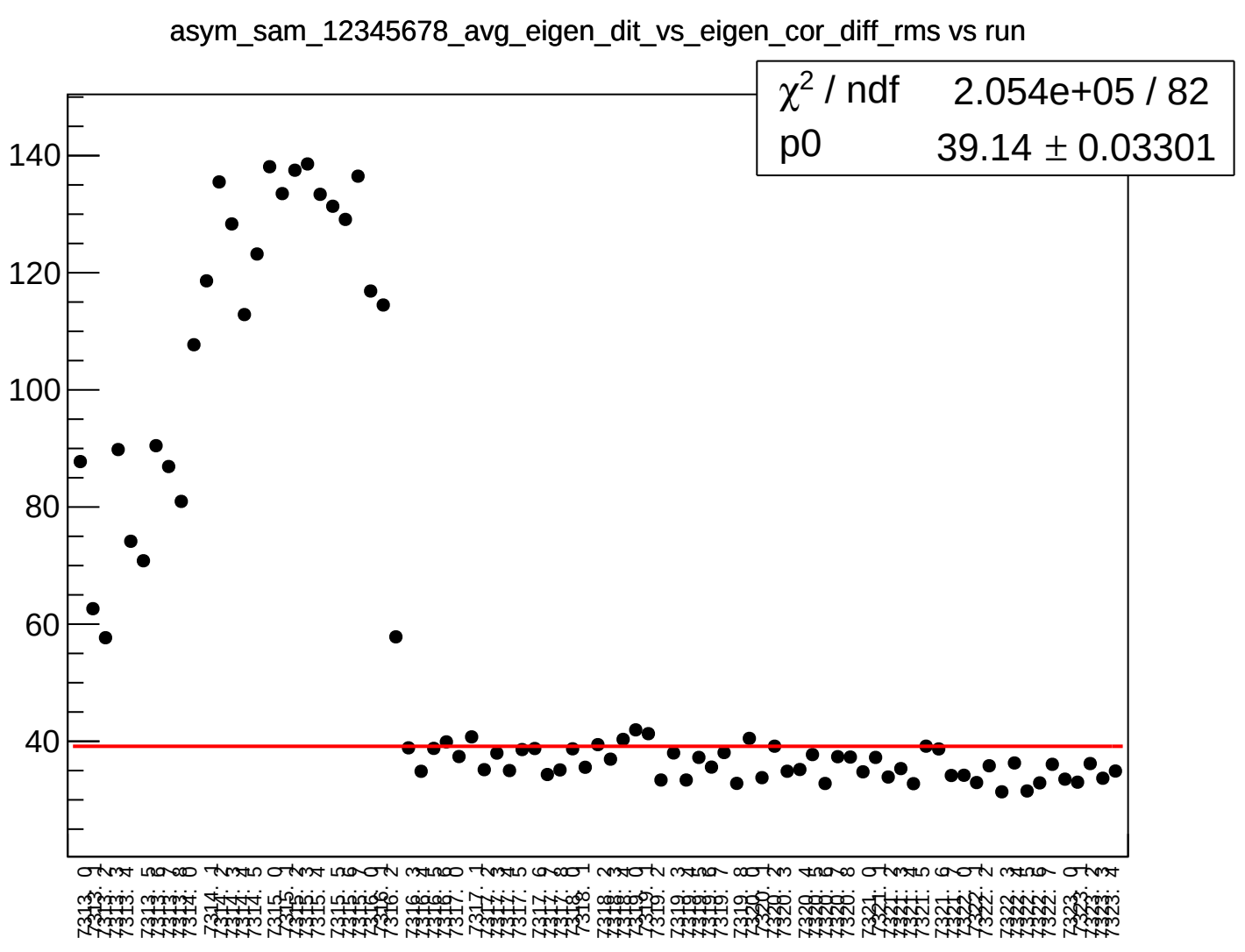

pull1D
Entries 83
Mean −0.01458
Std Dev 0.8979

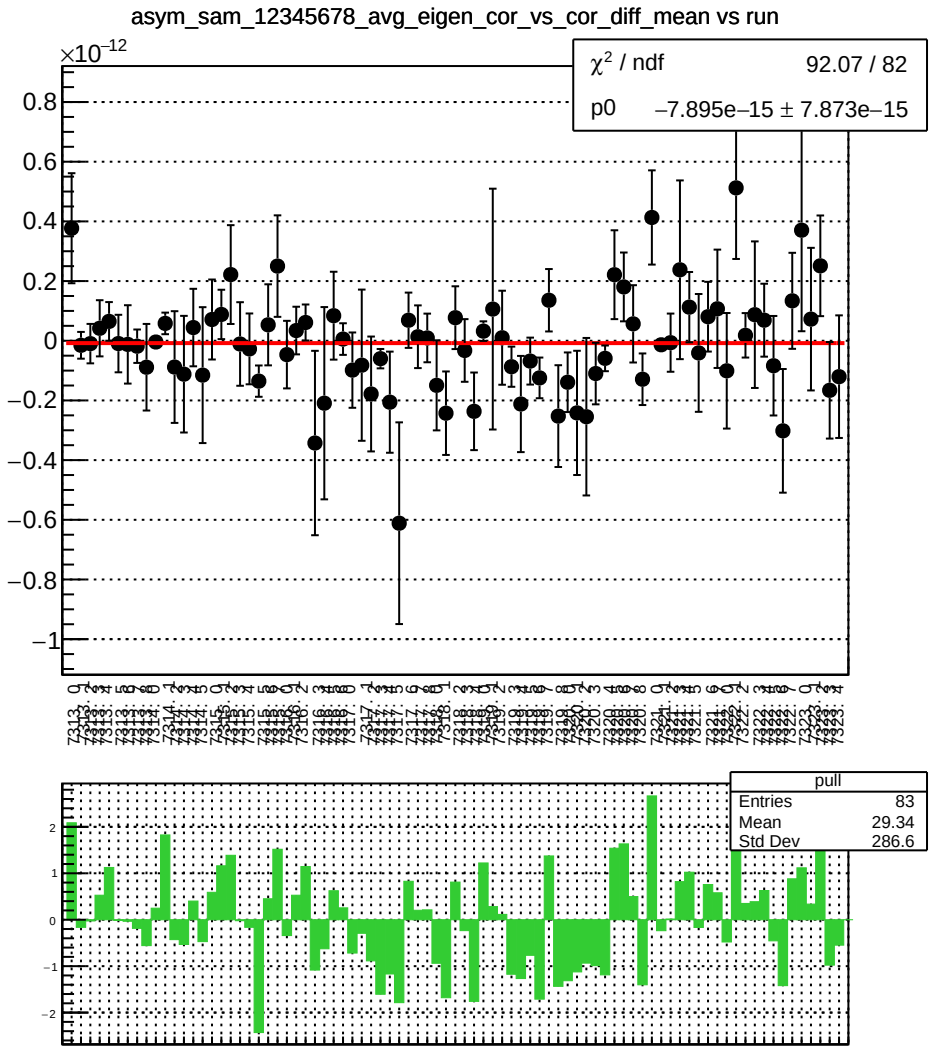

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8890 / 82
p0 0.001927 ± 1.522e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

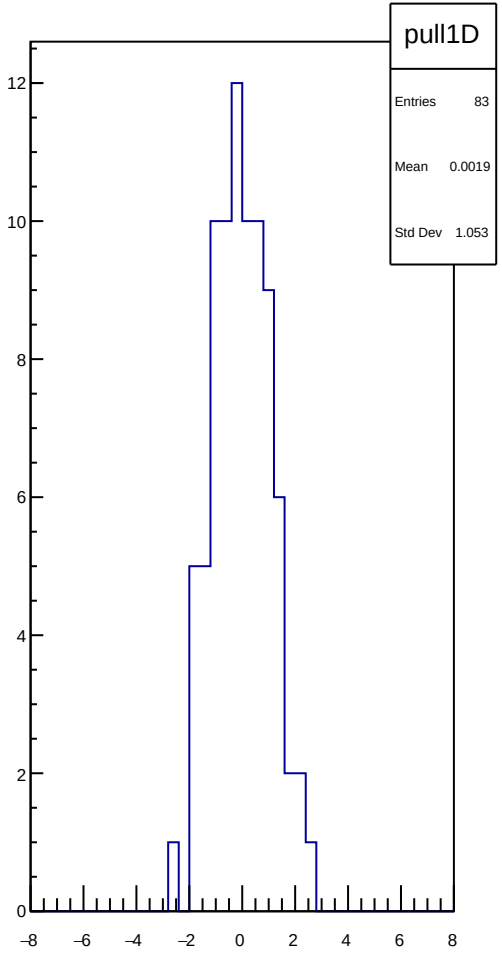

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.8 / 82
p0 −0.04355 ± 0.04669
pull
Entries 83
Mean 24.32
Std Dev 26.73
pull1D
Entries 83
Mean 0.06124
Std Dev 1.078

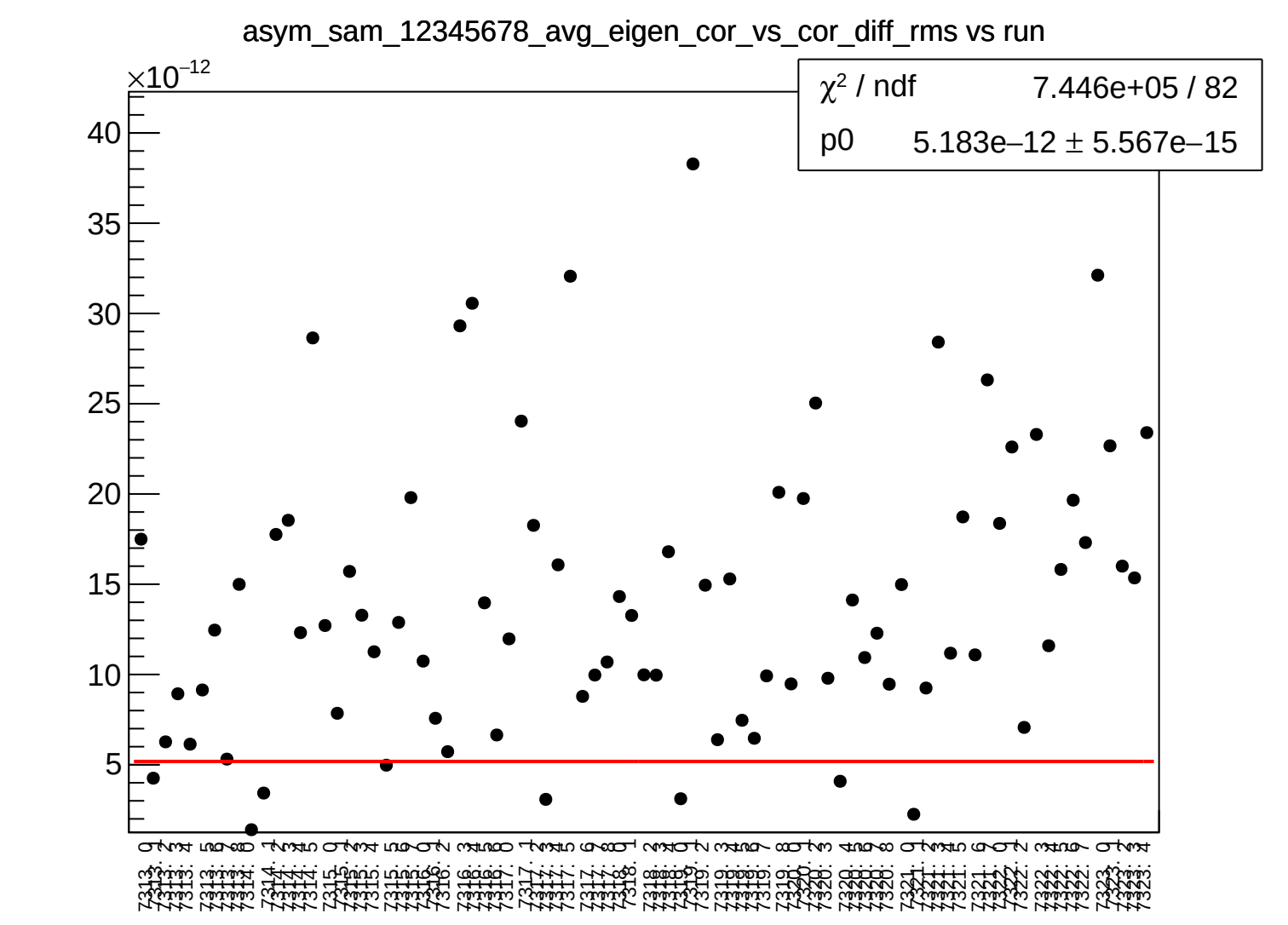

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 82
p0 39.14 ± 0.03301
140
120
100
80
60
40

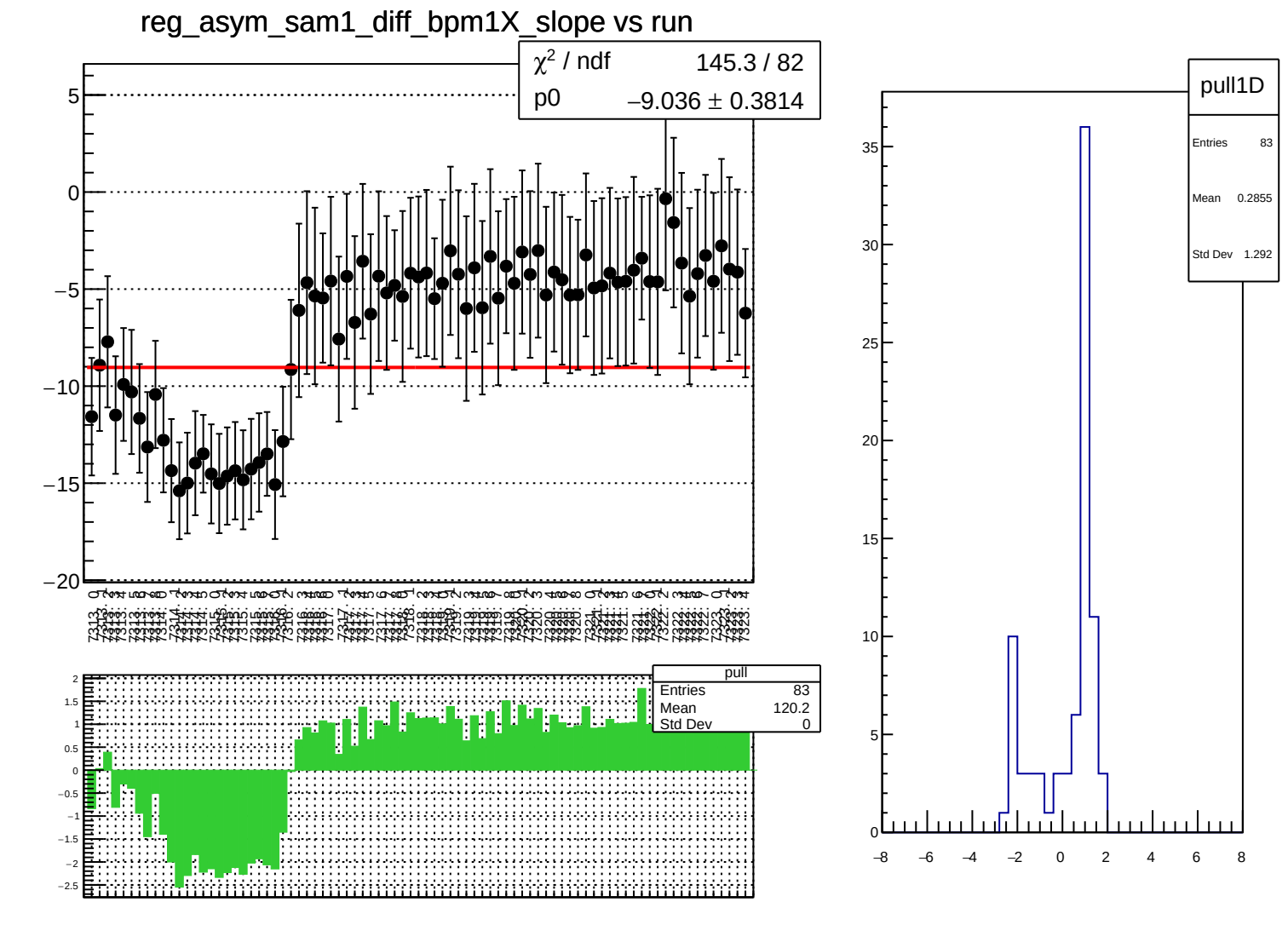

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.8 / 82
p0 −0.04355 ± 0.04669
pull
Entries 83
Mean 24.32
Std Dev 26.73
pull1D
Entries 83
Mean 0.06124
Std Dev 1.078

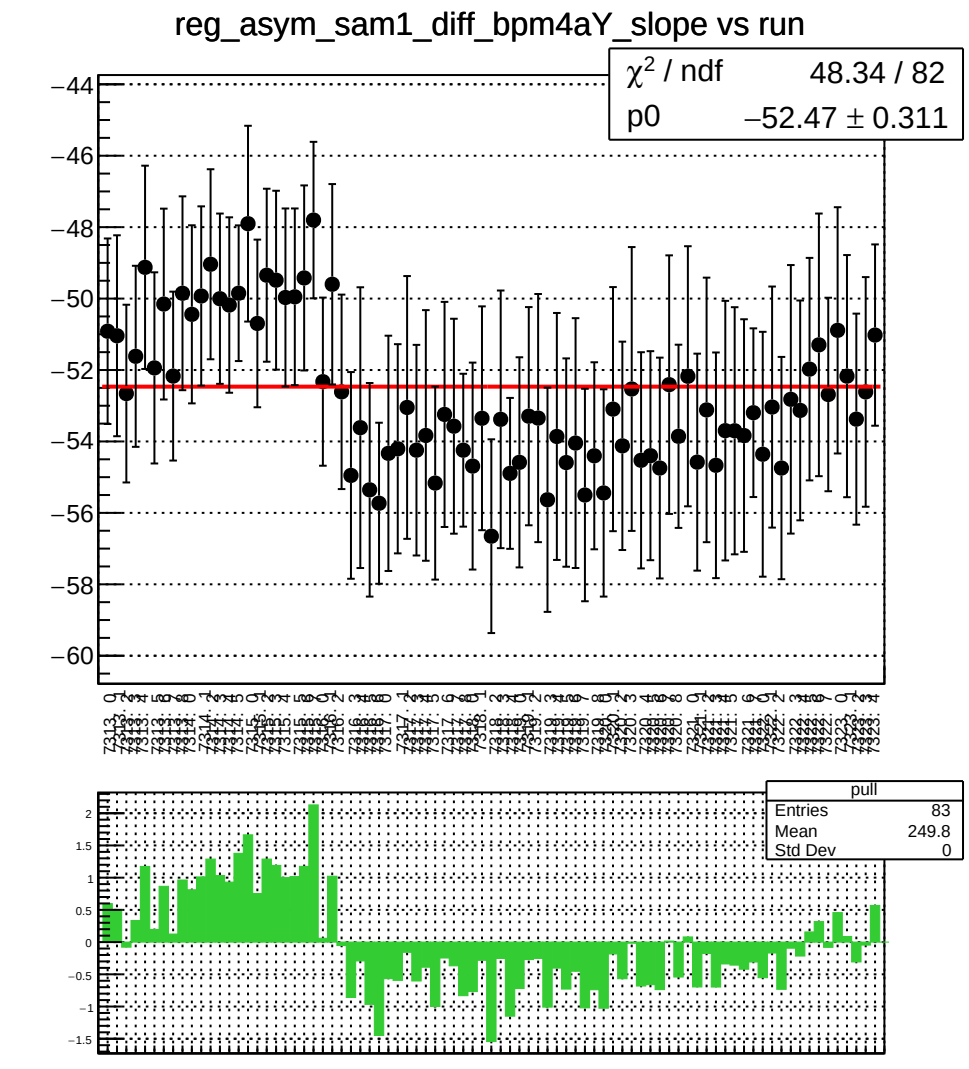

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 82
p0 39.14 ± 0.03301
140
120
100
80
60
40

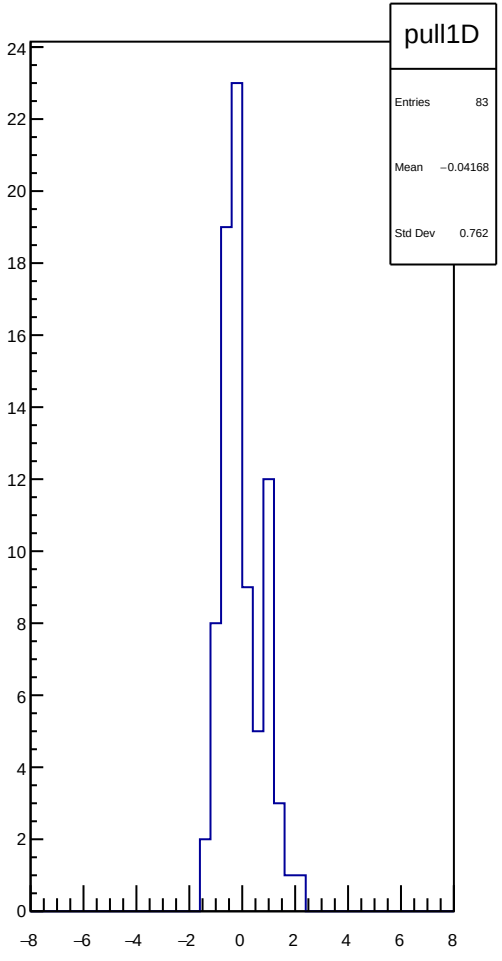

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.07 / 82
p0 −7.895e−15 ± 7.873e−15
pull
Entries 83
Mean 29.34
Std Dev 286.6

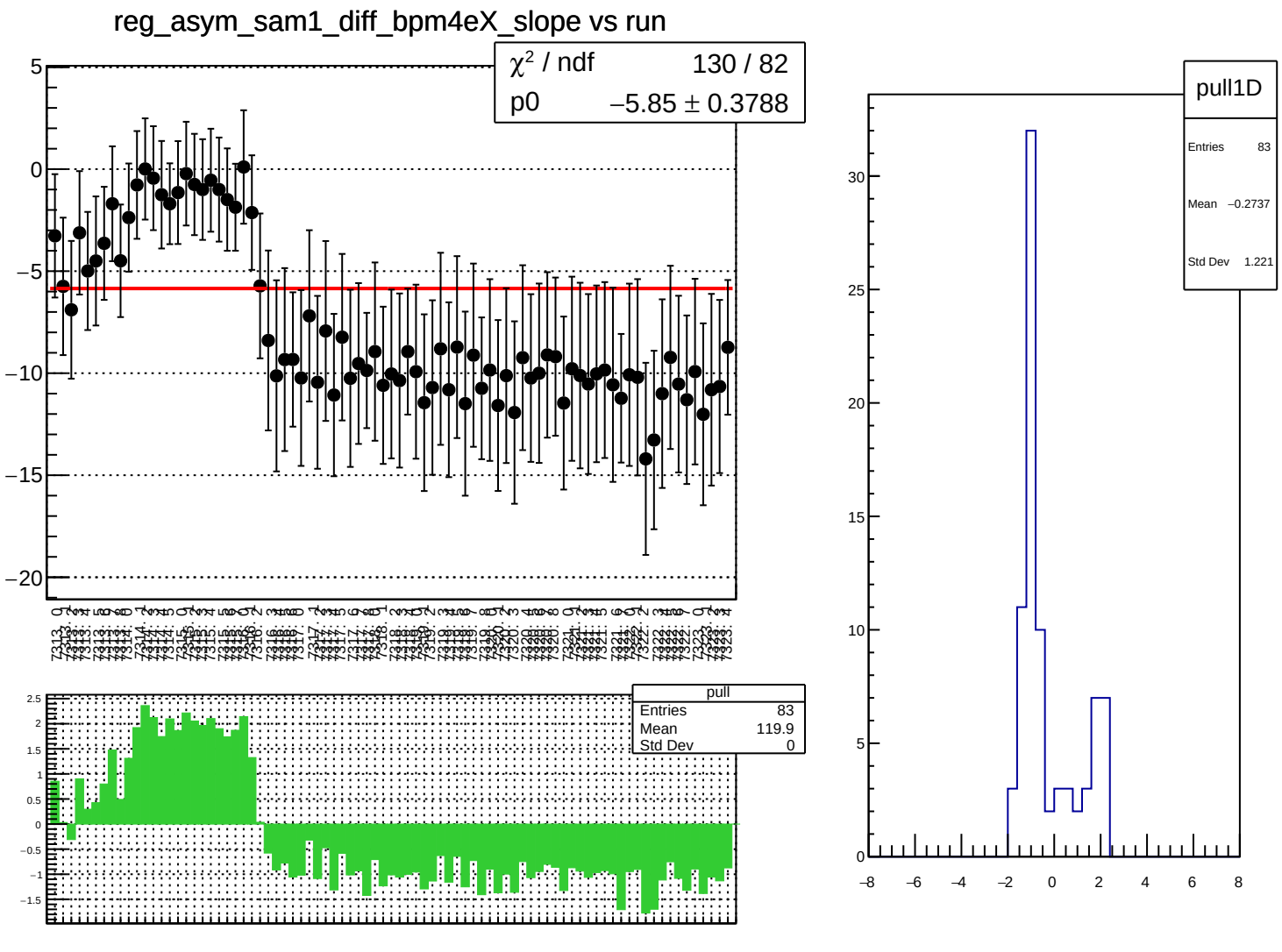

pull1D
Entries 83
Mean 0.0019
Std Dev 1.053

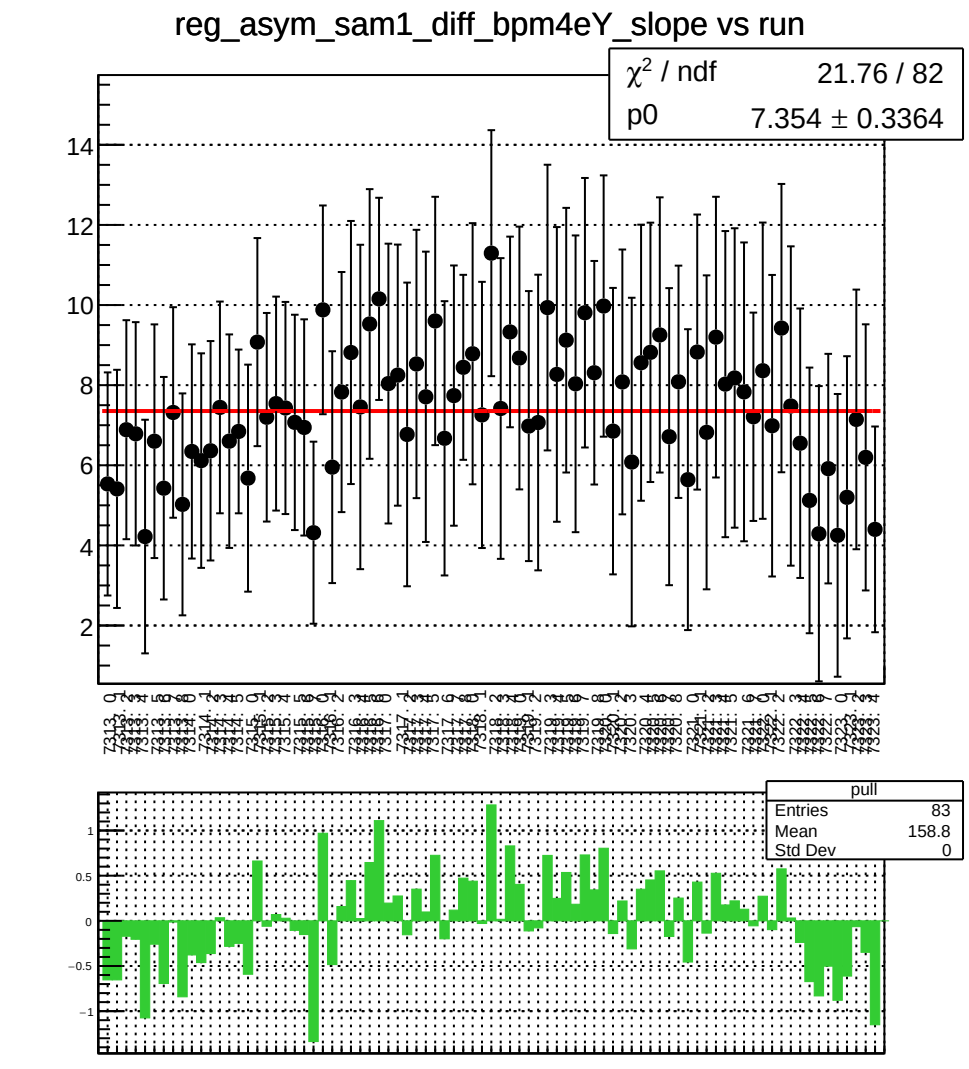

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.446e+05 / 82
p0 5.183e−12 ± 5.567e−15
40
35
30
25
20
15
10
5

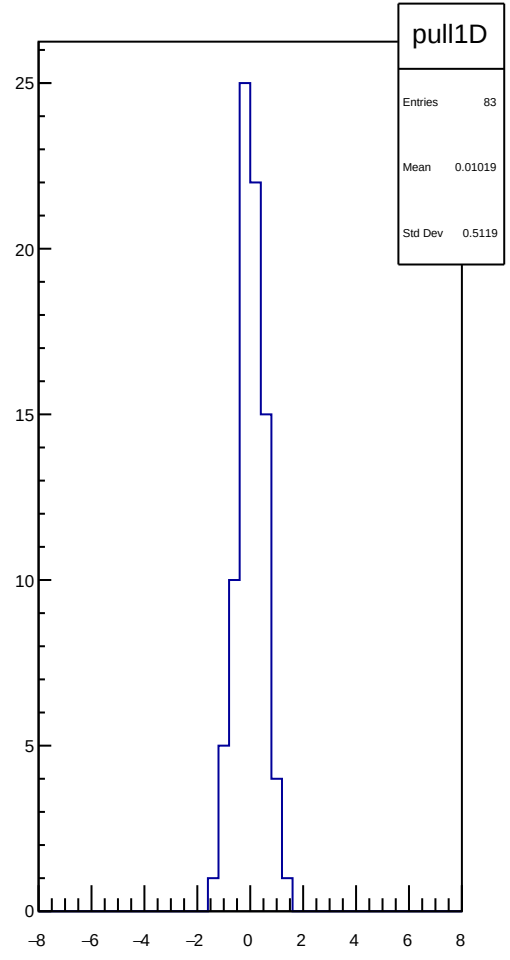

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 145.3 / 82
p0 −9.036 ± 0.3814
pull
Entries 83
Mean 120.2
Std Dev 0
pull1D
Entries 83
Mean 0.2855
Std Dev 1.292

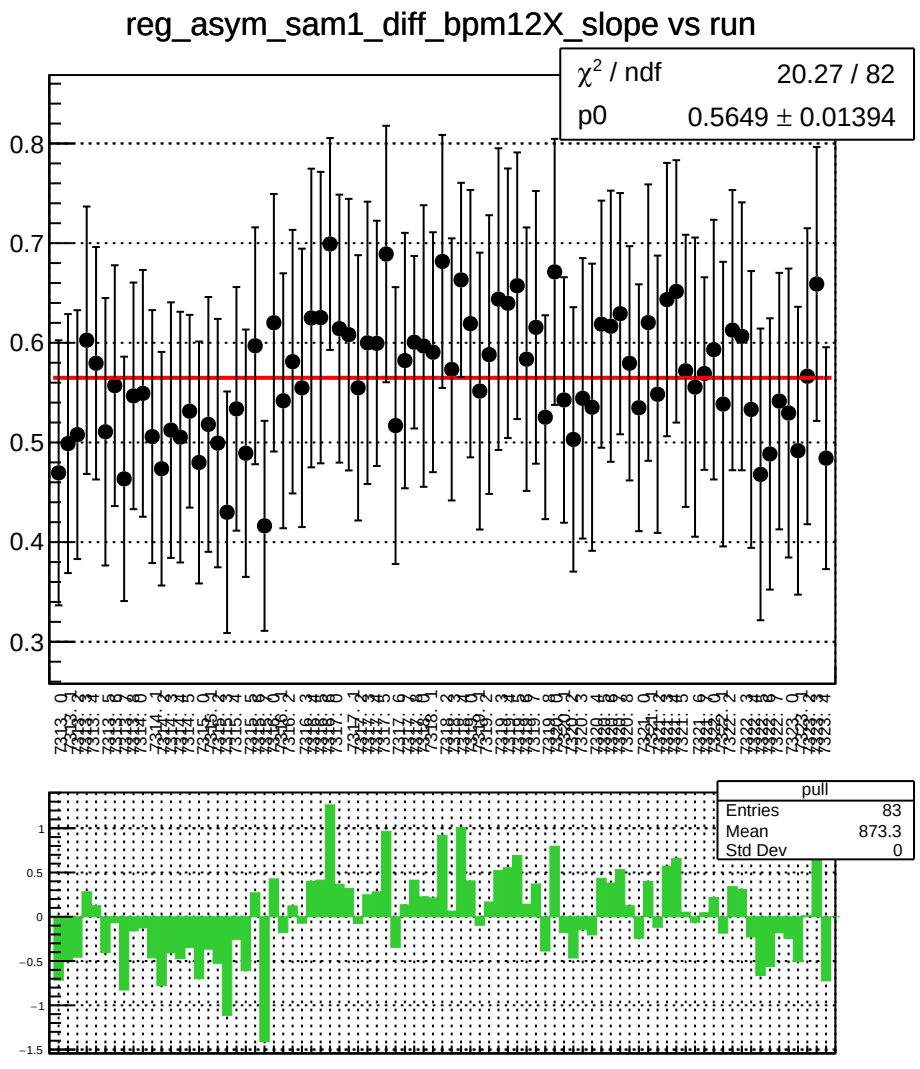

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 48.34 / 82
p0 −52.47 ± 0.311
pull
Entries 83
Mean 249.8
Std Dev 0

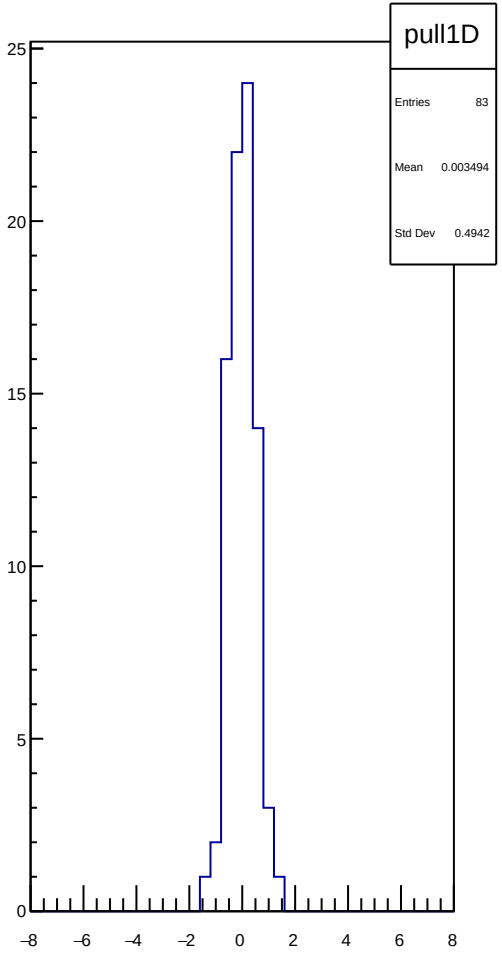

pull1D
Entries 83
Mean −0.04168
Std Dev 0.762

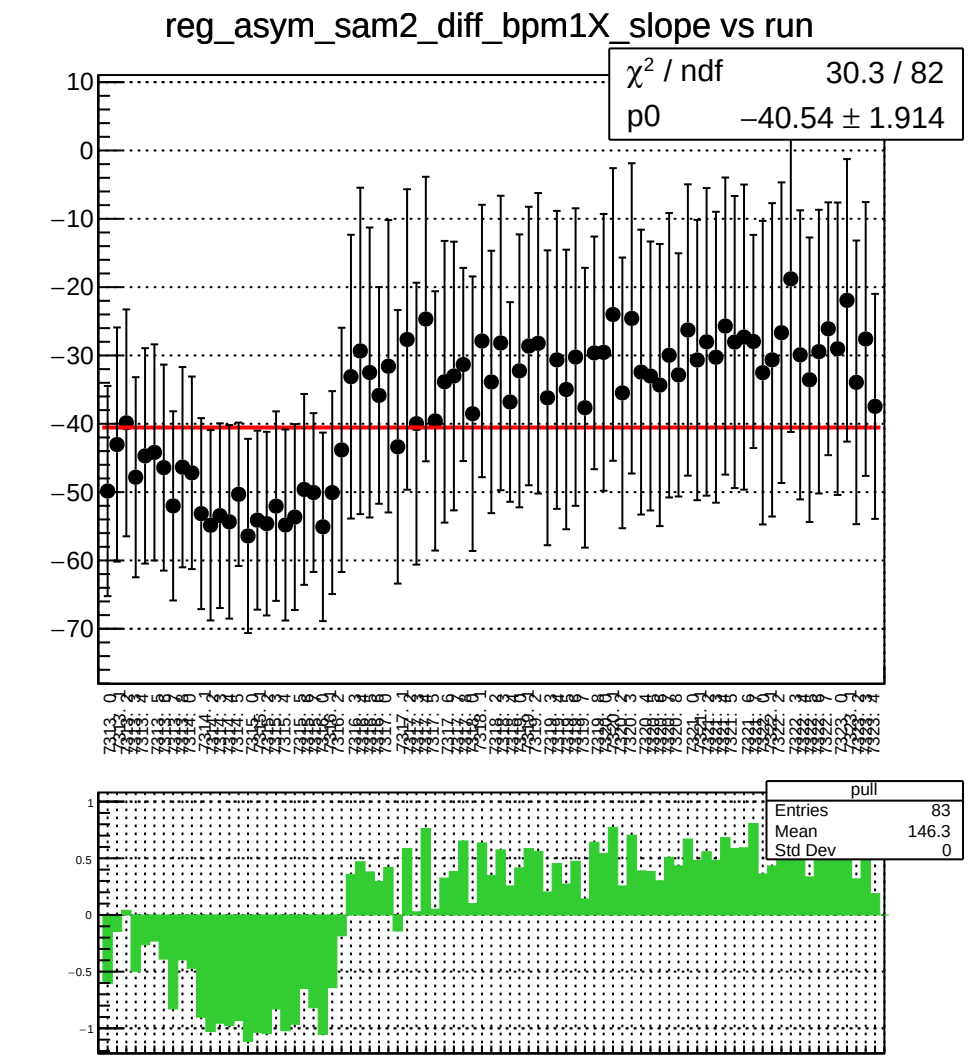

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 130 / 82
p0 −5.85 ± 0.3788
pull
Entries 83
Mean 119.9
Std Dev 0
pull1D
Entries 83
Mean −0.2737
Std Dev 1.221

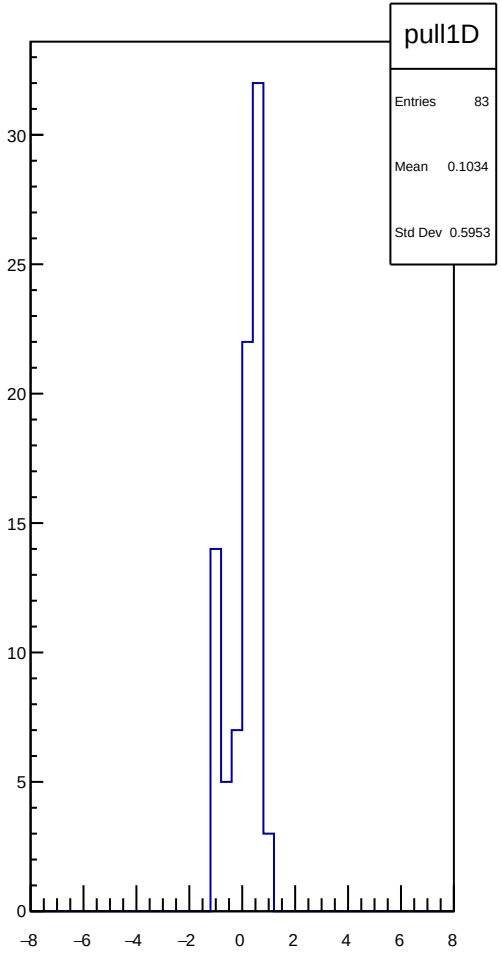

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 21.76 / 82
p0 7.354 ± 0.3364
pull
Entries 83
Mean 158.8
Std Dev 0

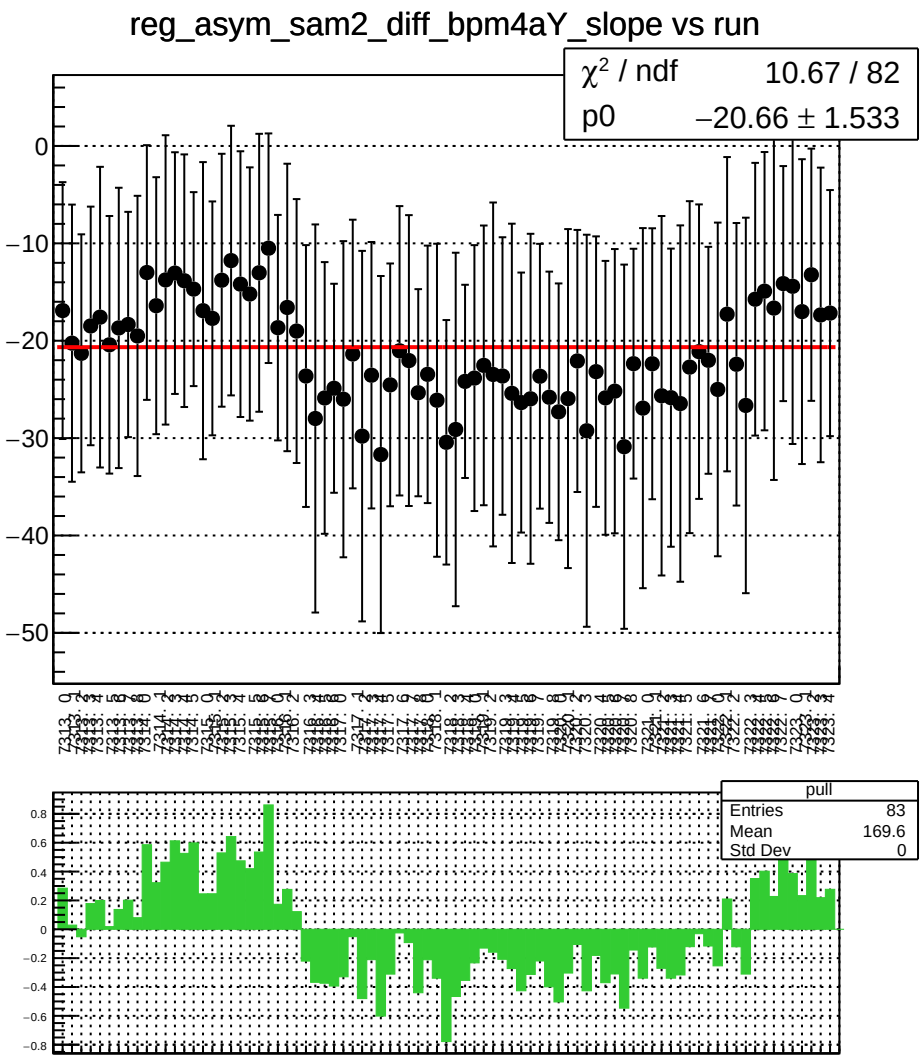

pull1D
Entries 83
Mean 0.01019
Std Dev 0.5119

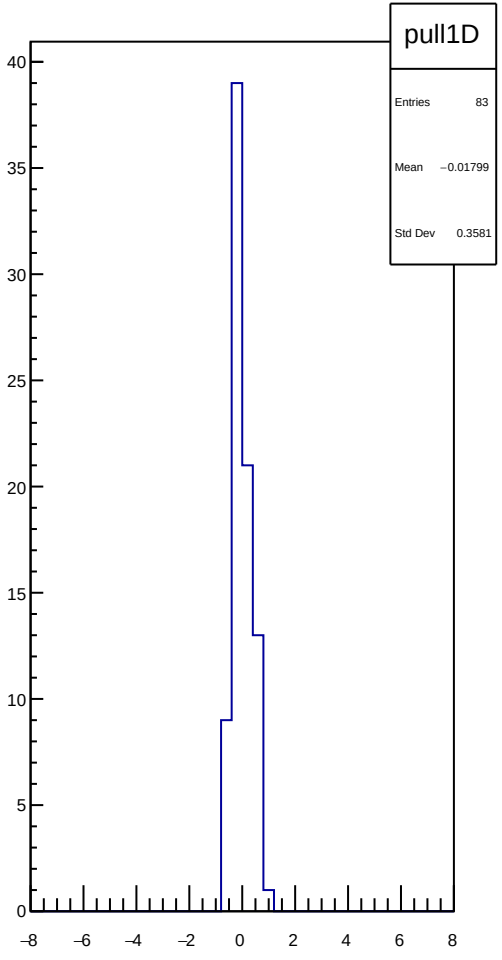

reg_asym_sam1_diff_bpm12X_slope vs run
χ^2 / ndf 20.27 / 82
p0 0.5649 ± 0.01394
pull
Entries 83
Mean 873.3
Std Dev 0

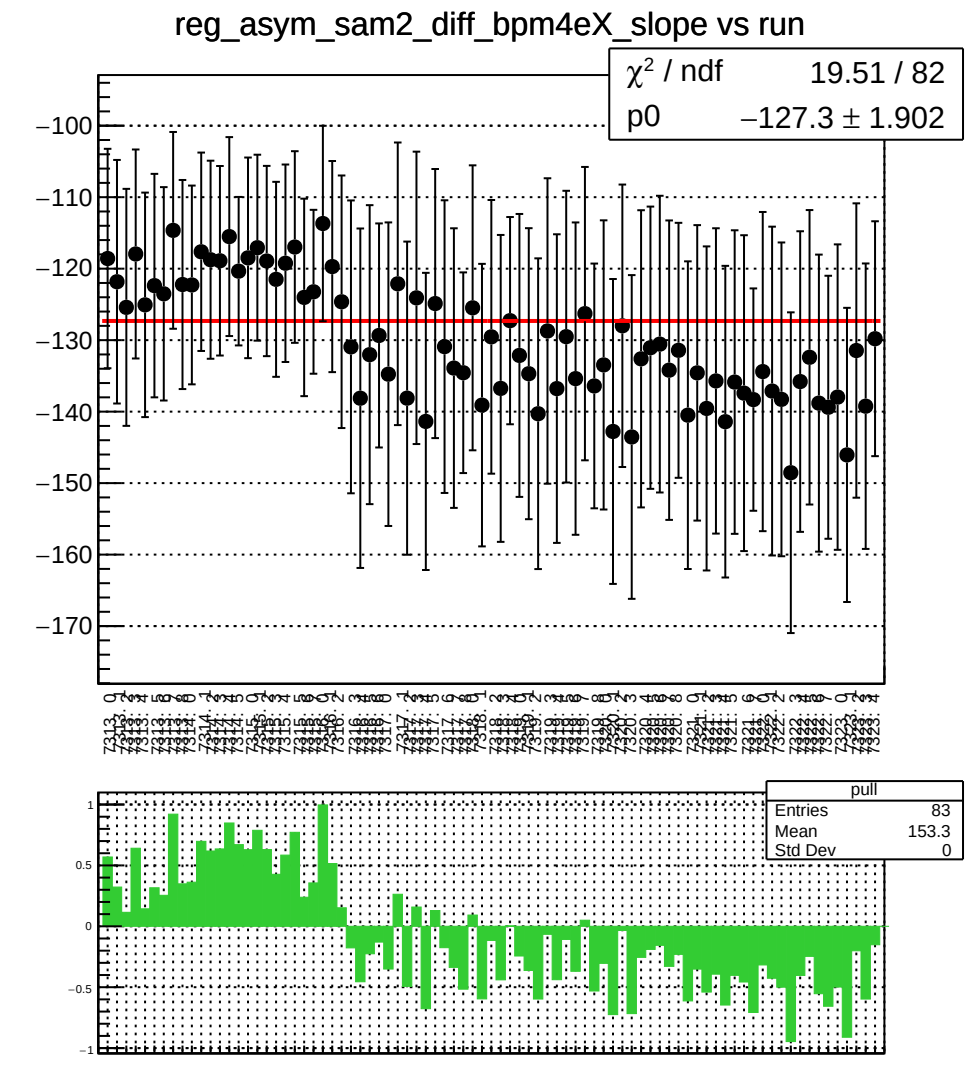

pull1D
Entries 83
Mean 0.003494
Std Dev 0.4942

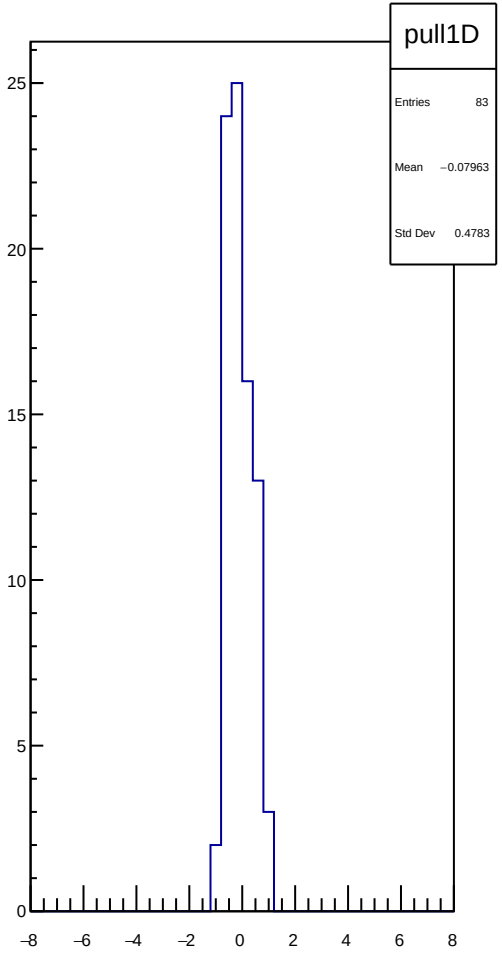

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 30.3 / 82
p0 −40.54 ± 1.914
pull
Entries 83
Mean 146.3
Std Dev 0

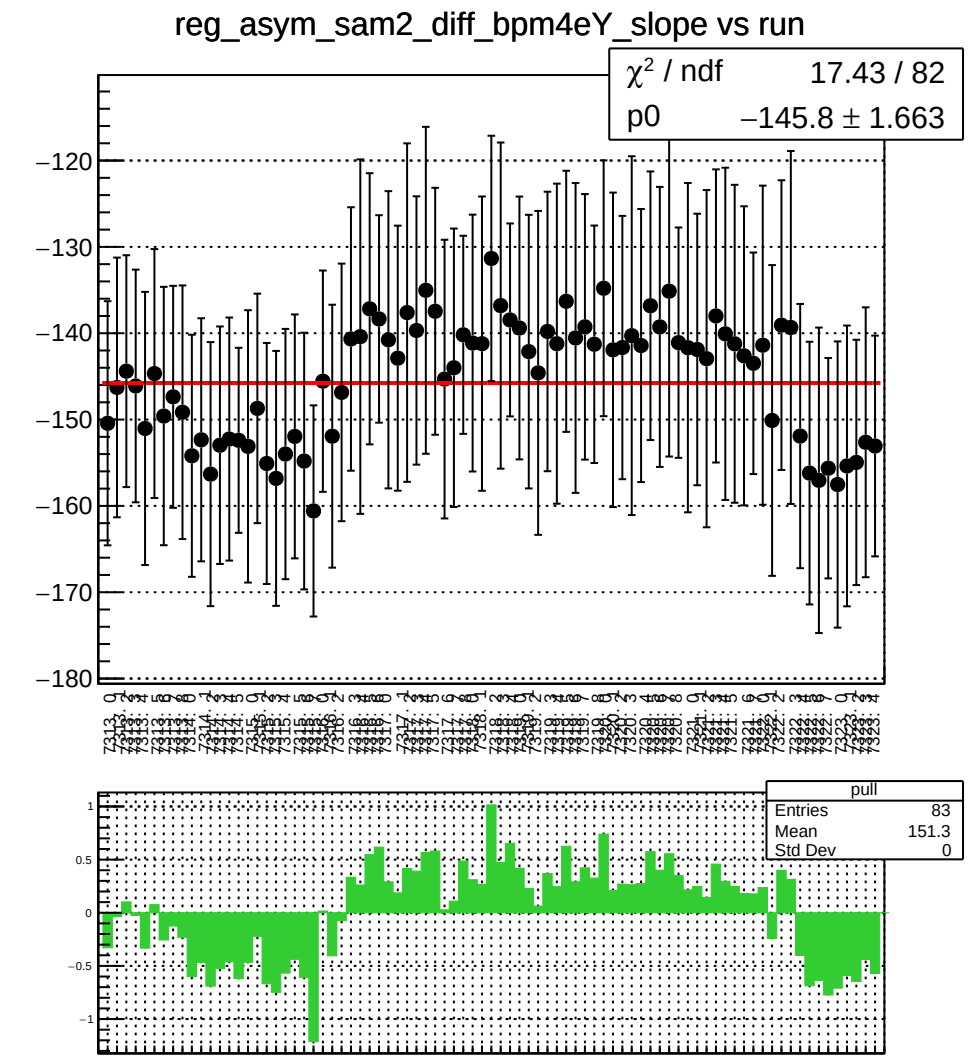

pull1D
Entries 83
Mean 0.1034
Std Dev 0.5953

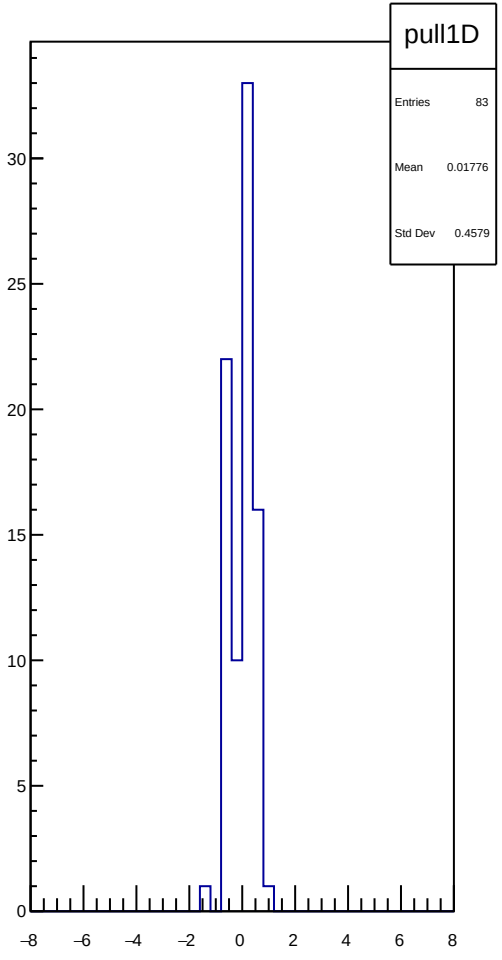

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.67 / 82
p0 −20.66 ± 1.533
pull
Entries 83
Mean 169.6
Std Dev 0

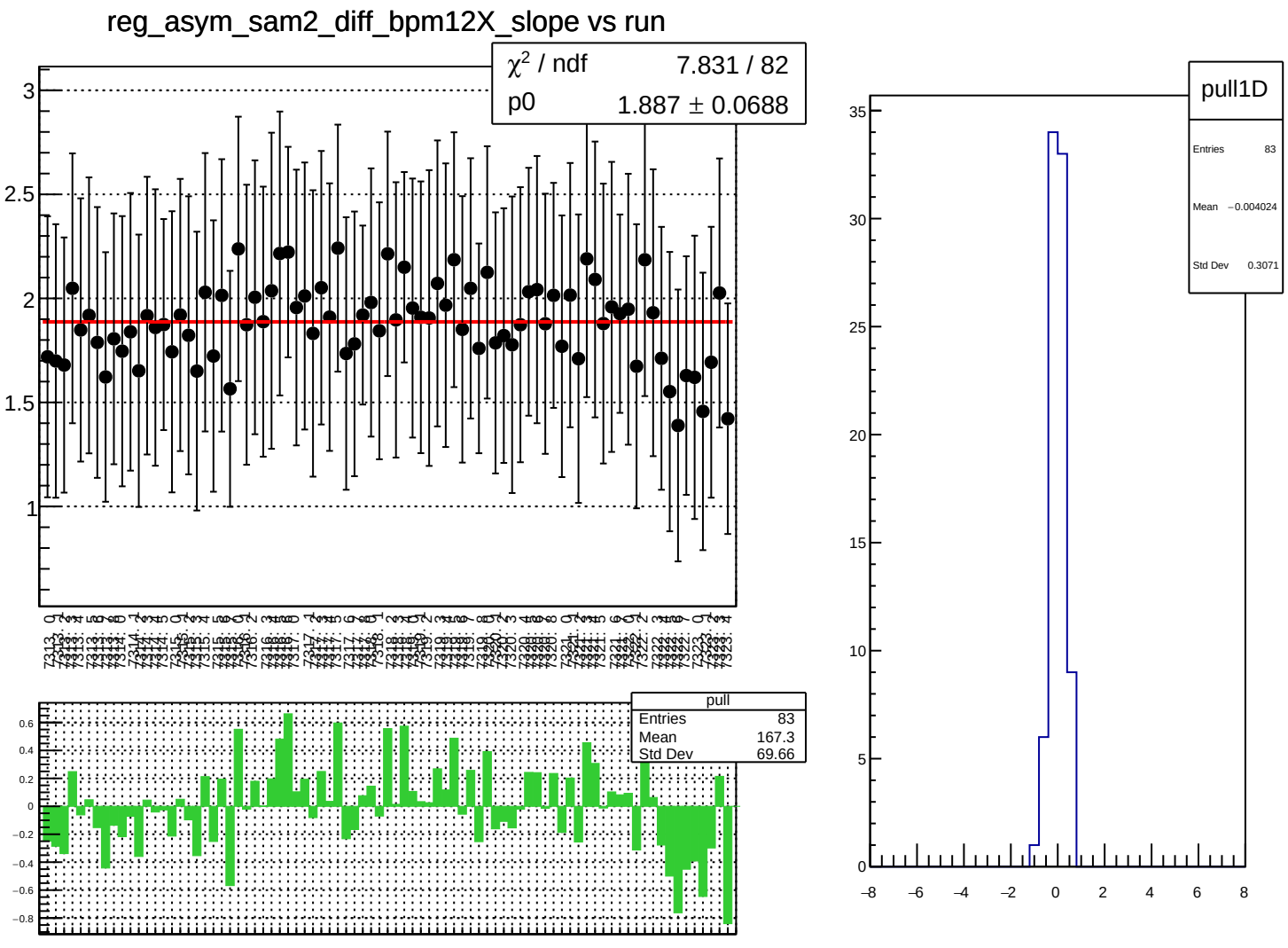

pull1D
Entries 83
Mean −0.01799
Std Dev 0.3581

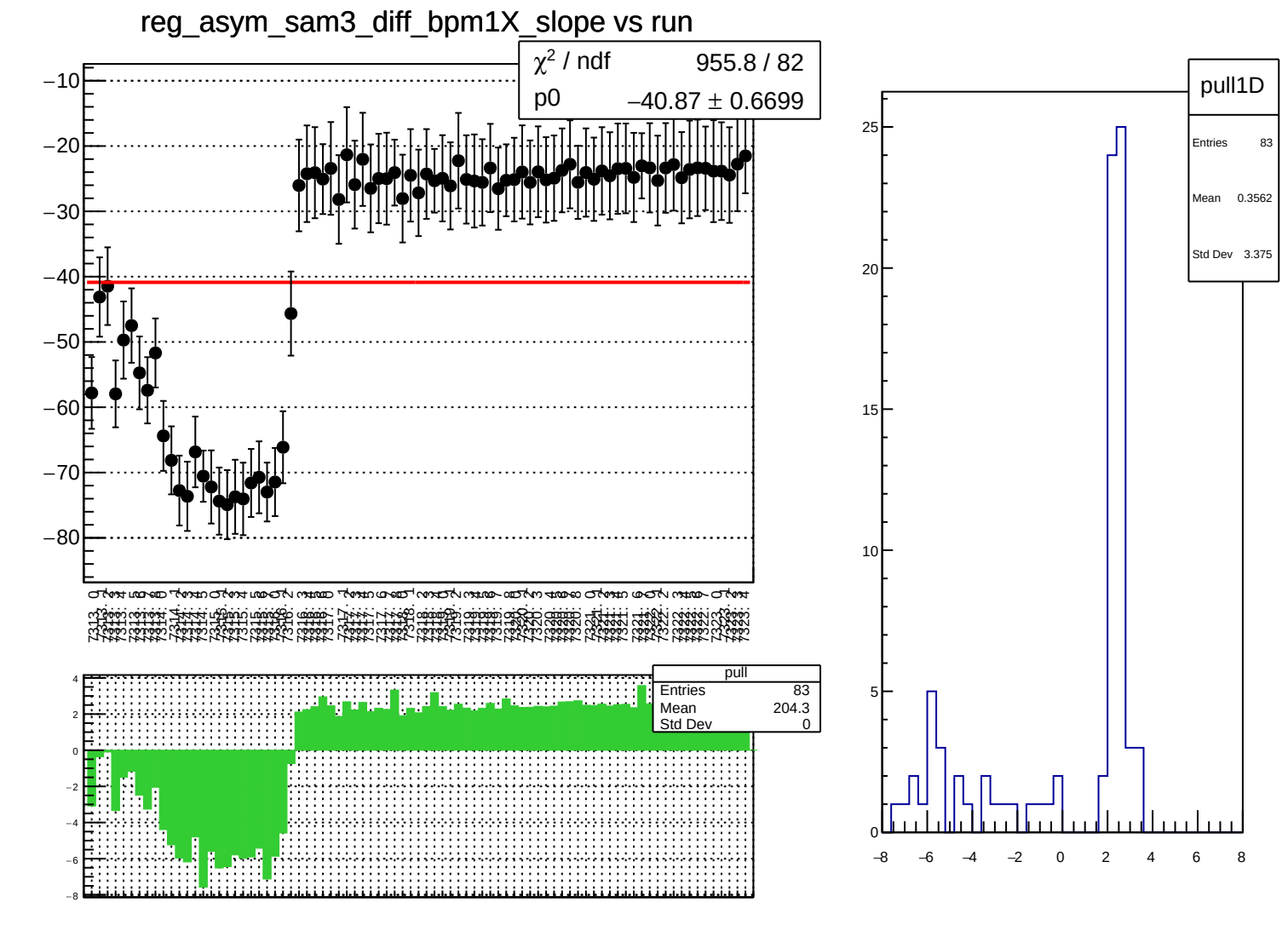

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 19.51 / 82
p0 −127.3 ± 1.902
pull
Entries 83
Mean 153.3
Std Dev 0

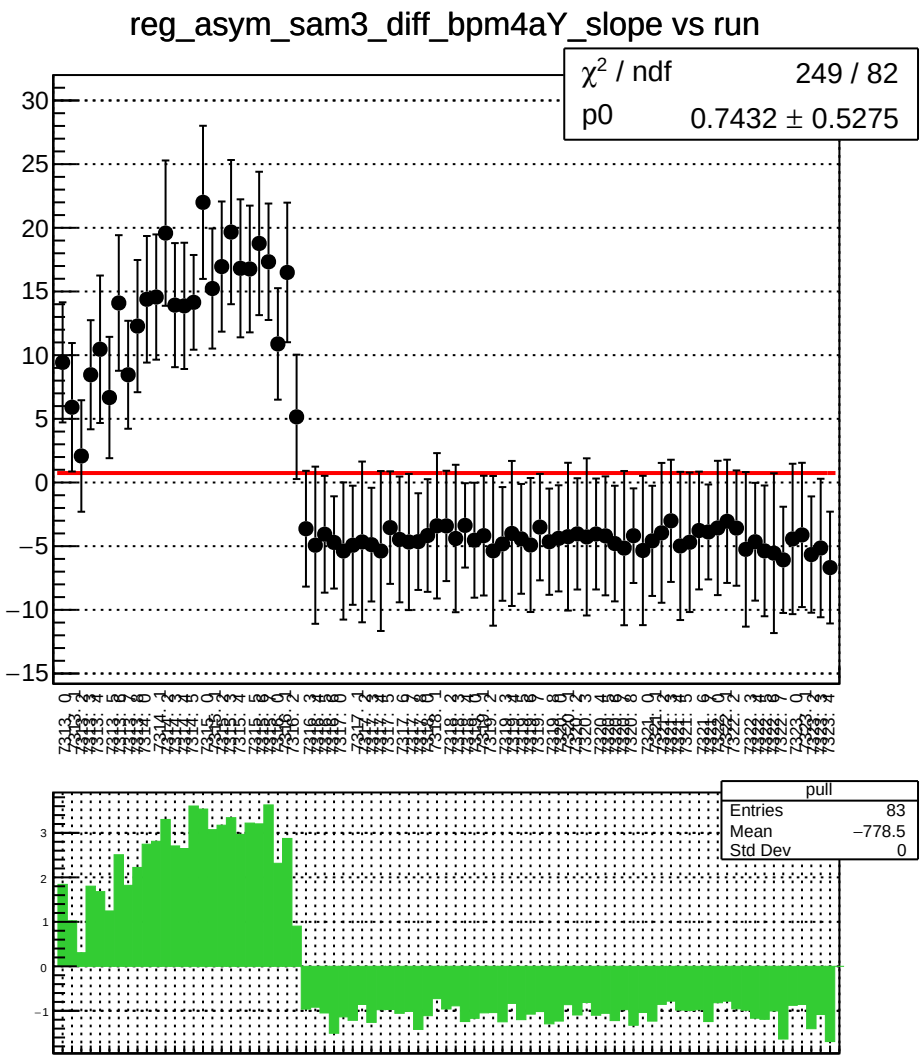

pull1D
Entries 83
Mean −0.07963
Std Dev 0.4783

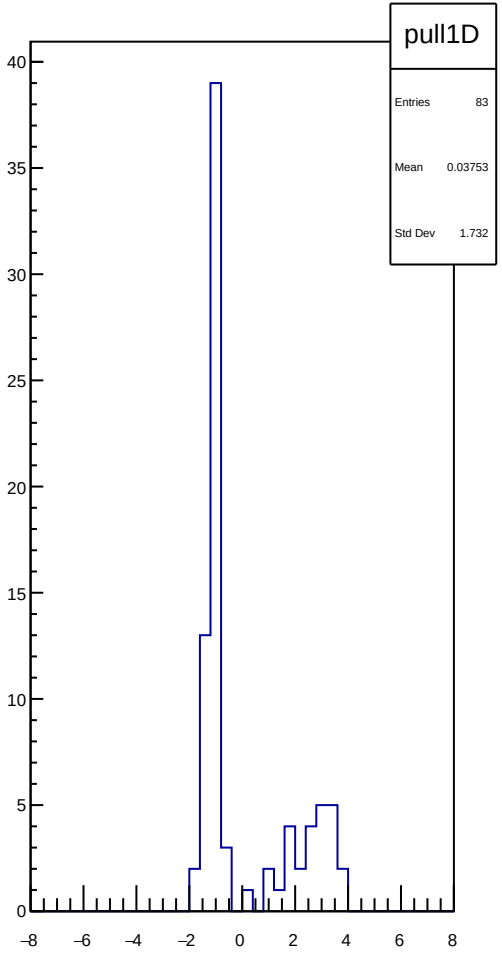

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 17.43 / 82
p0 −145.8 ± 1.663
pull
Entries 83
Mean 151.3
Std Dev 0

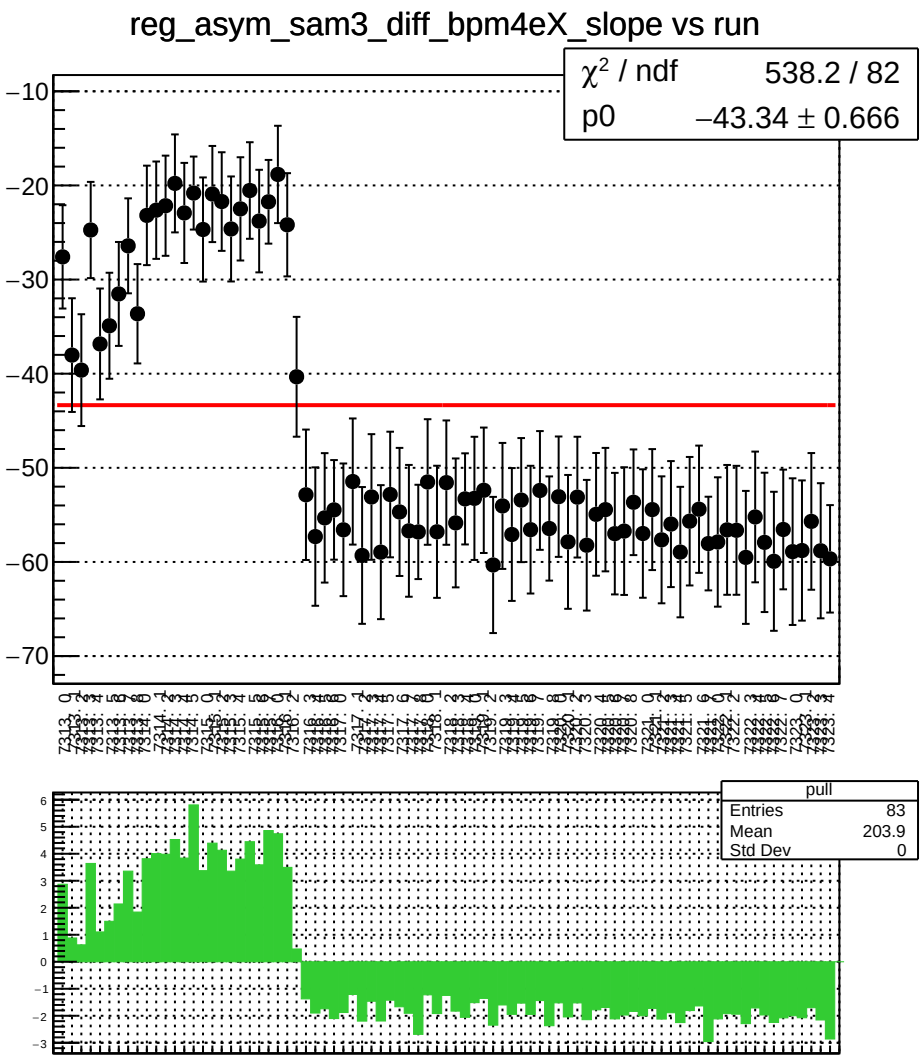

pull1D
Entries 83
Mean 0.01776
Std Dev 0.4579

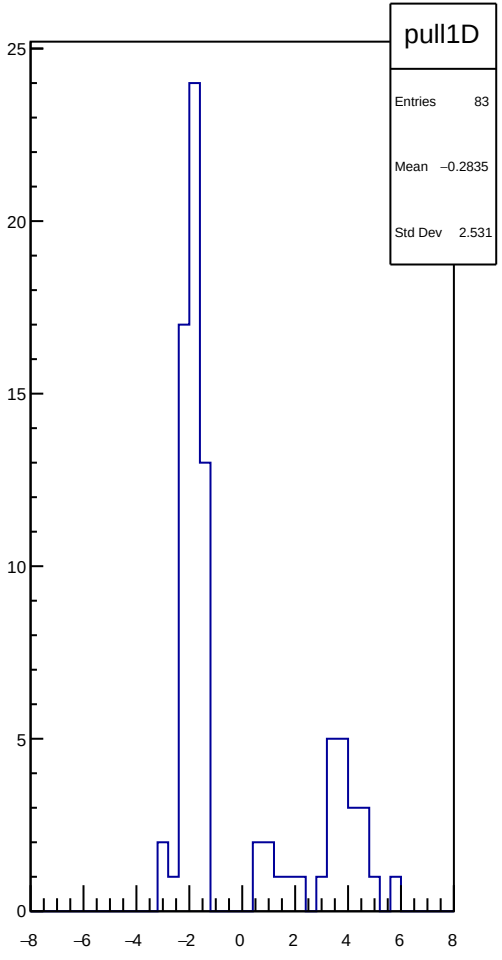

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 7.831 / 82
p0 1.887 ± 0.0688
pull
Entries 83
Mean 167.3
Std Dev 69.66
pull1D
Entries 83
Mean −0.004024
Std Dev 0.3071

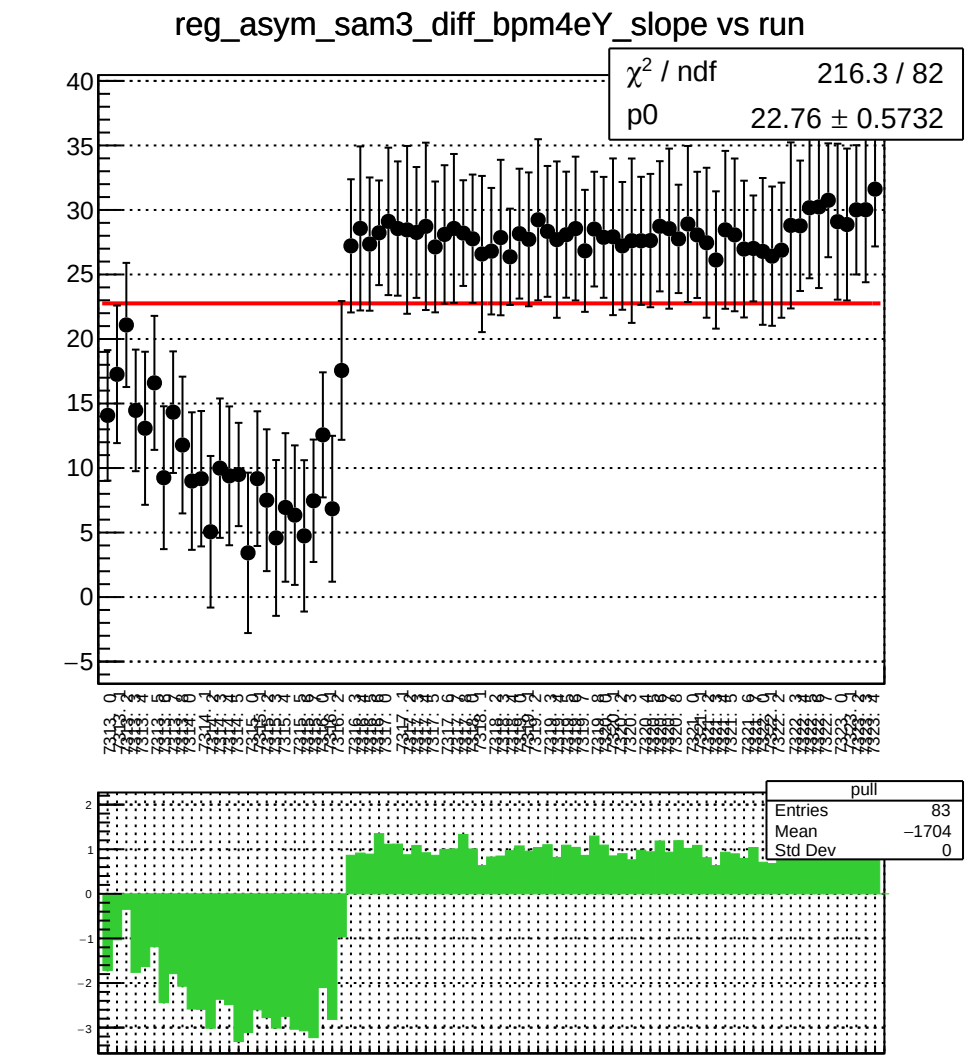

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 955.8 / 82
p0 −40.87 ± 0.6699
pull
Entries 83
Mean 204.3
Std Dev 0
pull1D
Entries 83
Mean 0.3562
Std Dev 3.375

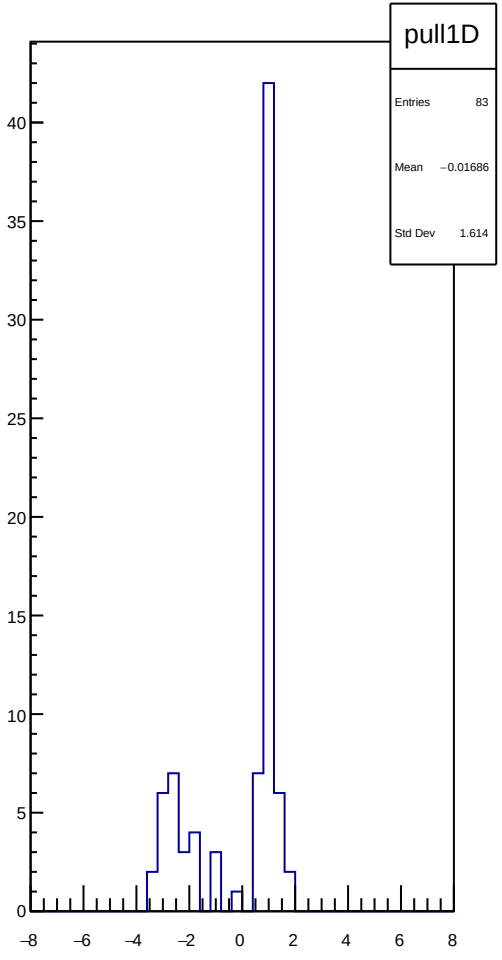

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 249 / 82
p0 0.7432 ± 0.5275
pull
Entries 83
Mean −778.5
Std Dev 0

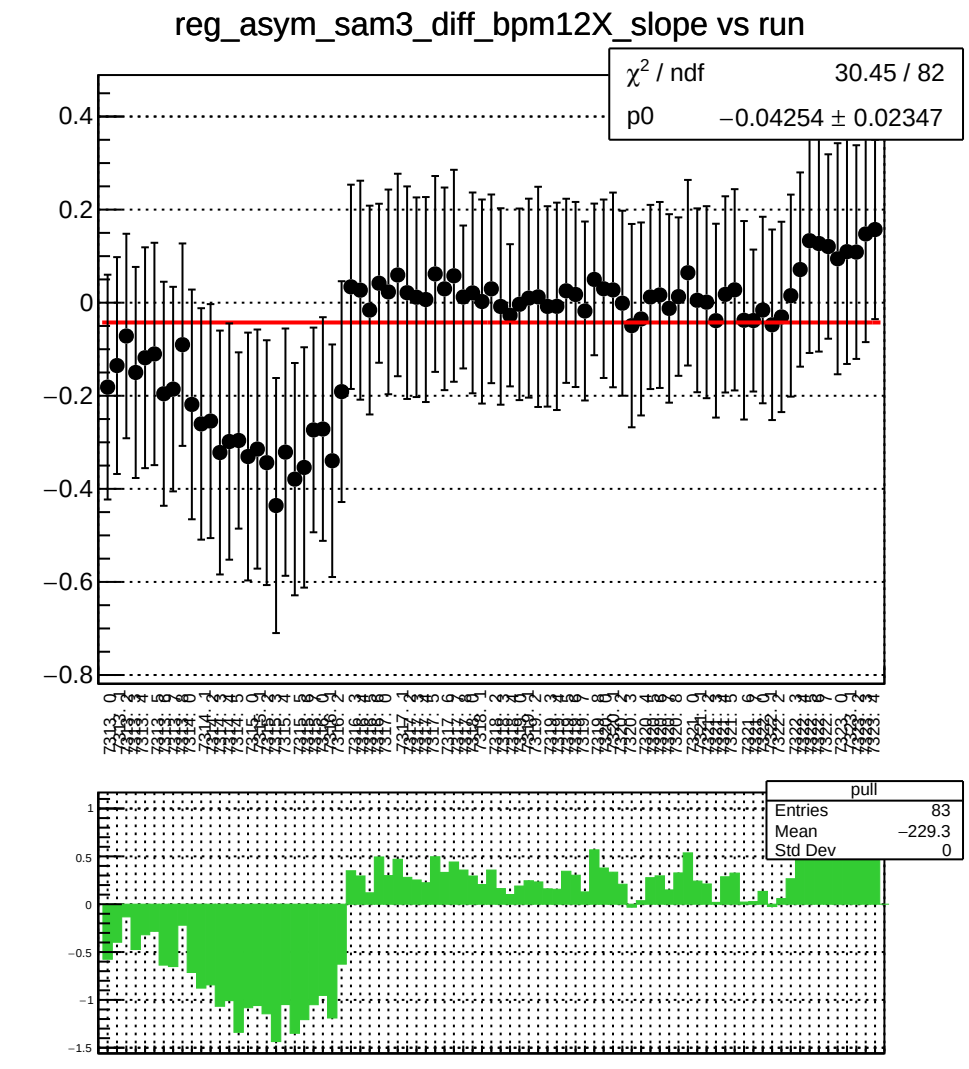

pull1D
Entries 83
Mean 0.03753
Std Dev 1.732

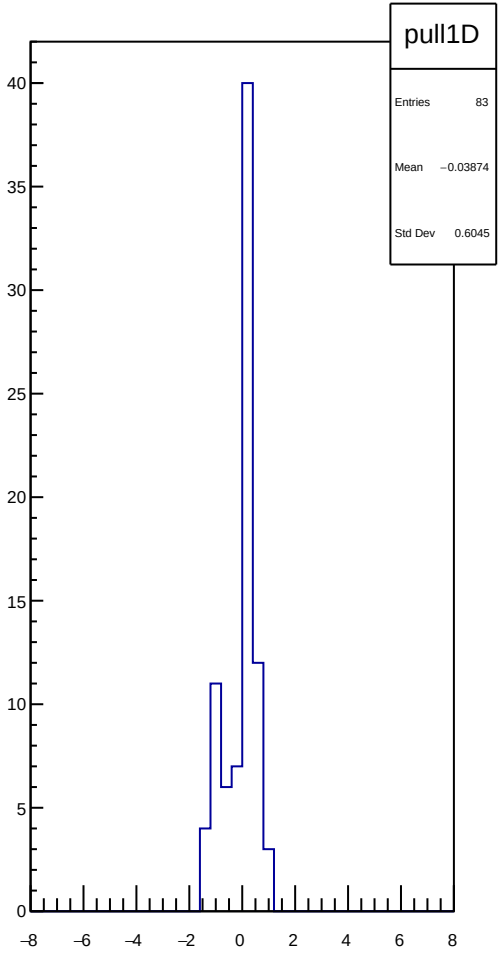

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 538.2 / 82
p0 −43.34 ± 0.666
pull
Entries 83
Mean 203.9
Std Dev 0

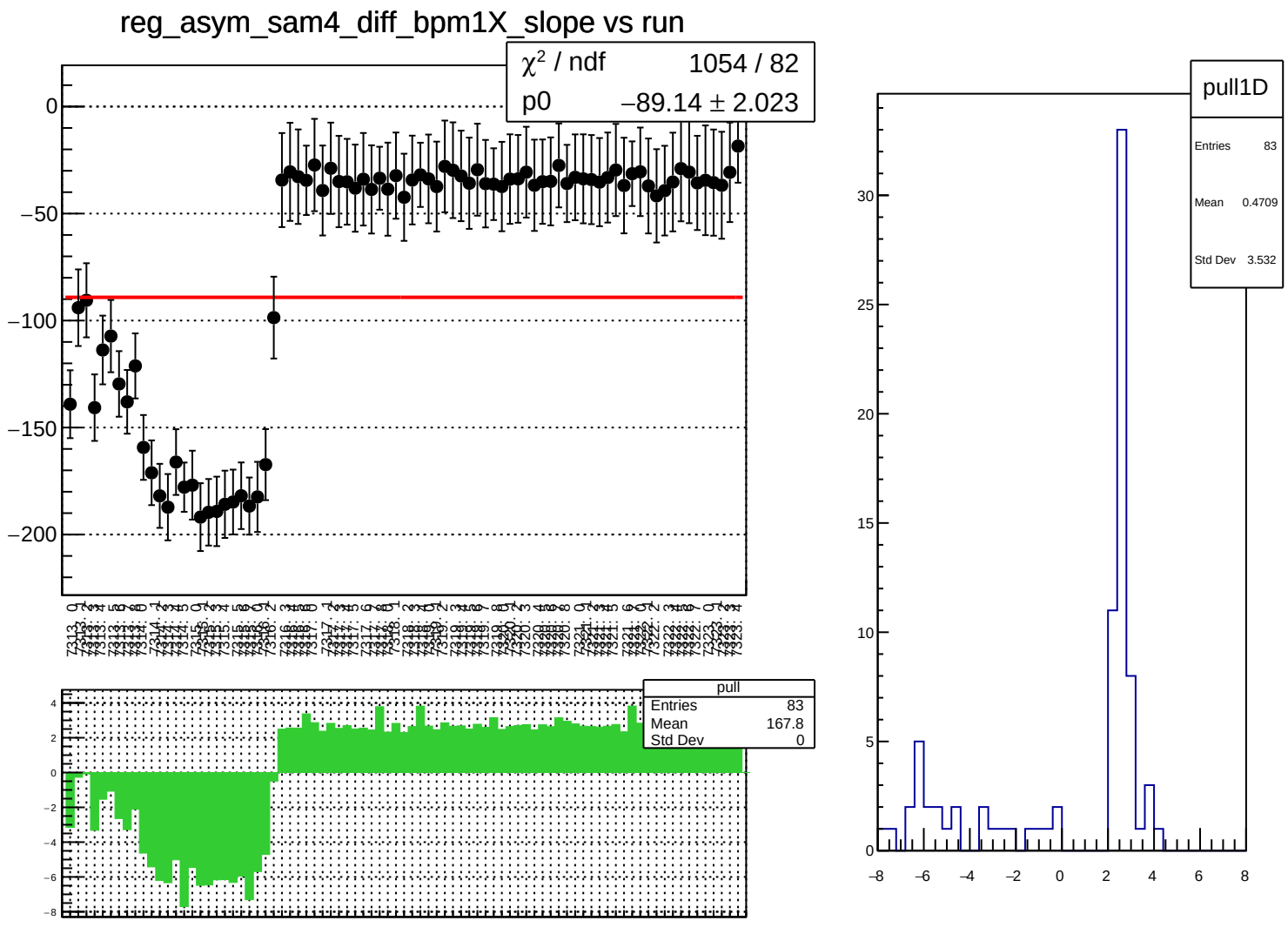

pull1D
Entries 83
Mean −0.2835
Std Dev 2.531

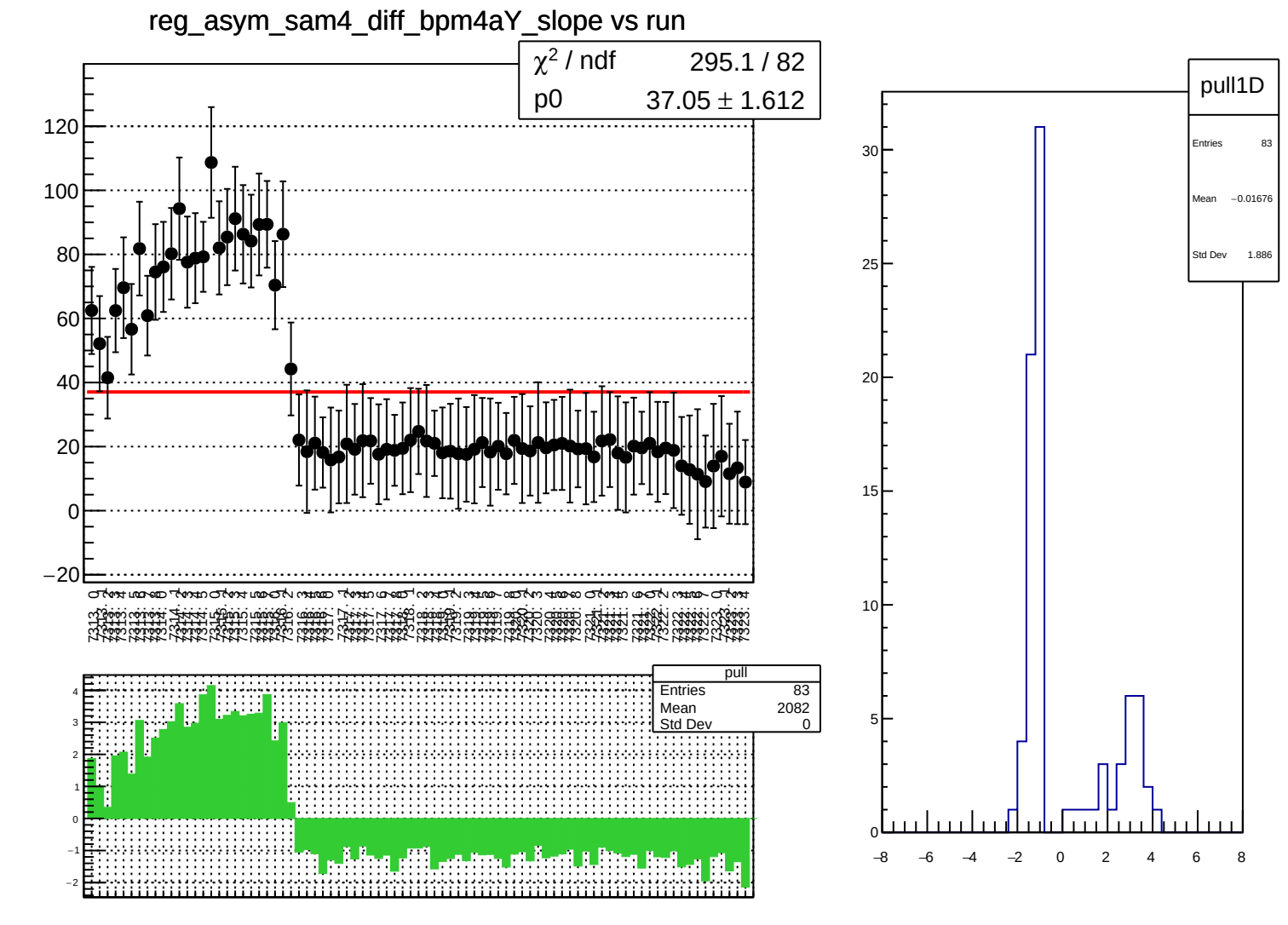

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 216.3 / 82
p0 22.76 ± 0.5732
pull
Entries 83
Mean −1704
Std Dev 0

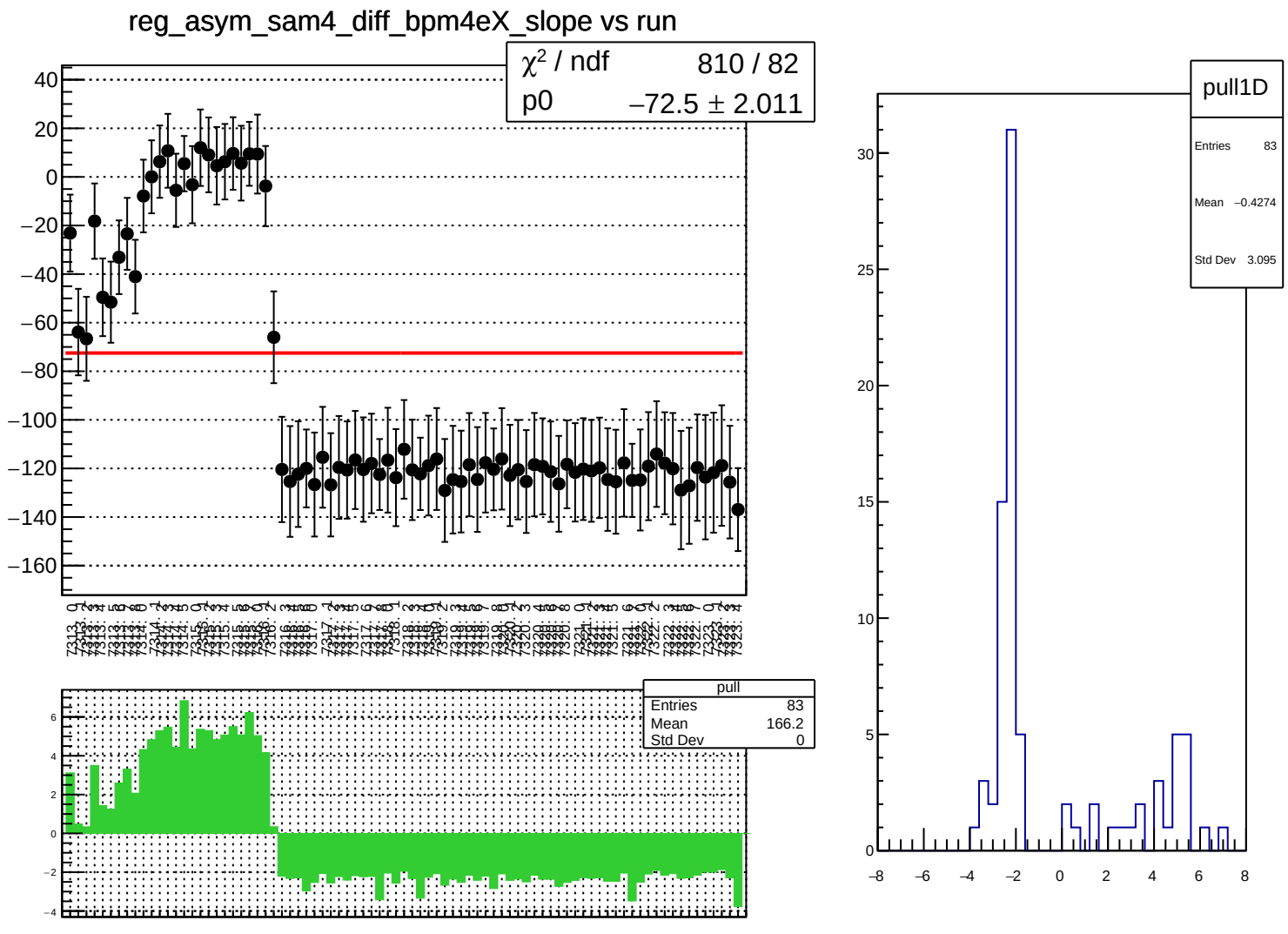

pull1D
Entries 83
Mean −0.01686
Std Dev 1.614

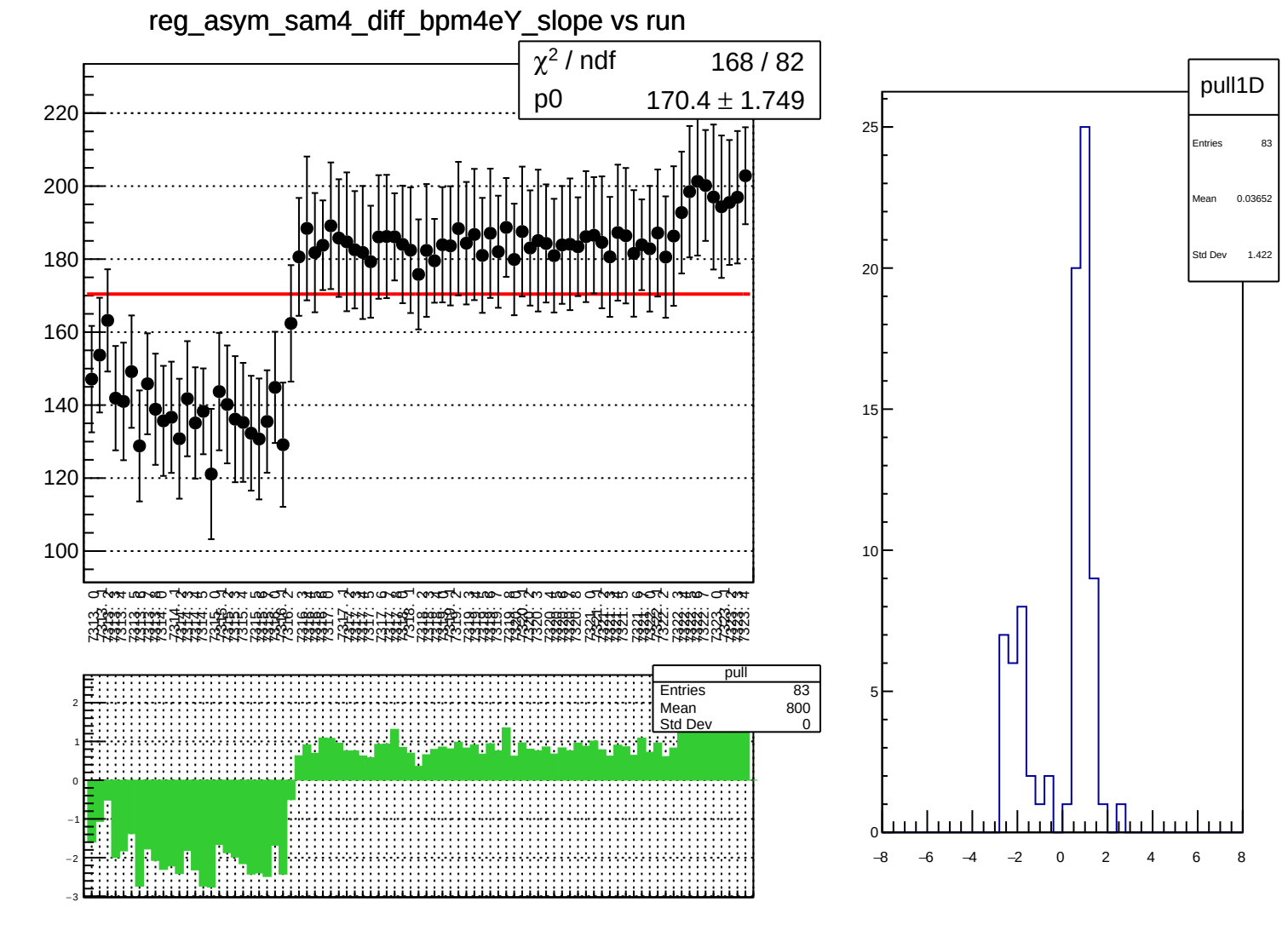

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 30.45 / 82
p0 −0.04254 ± 0.02347
pull
Entries 83
Mean −229.3
Std Dev 0

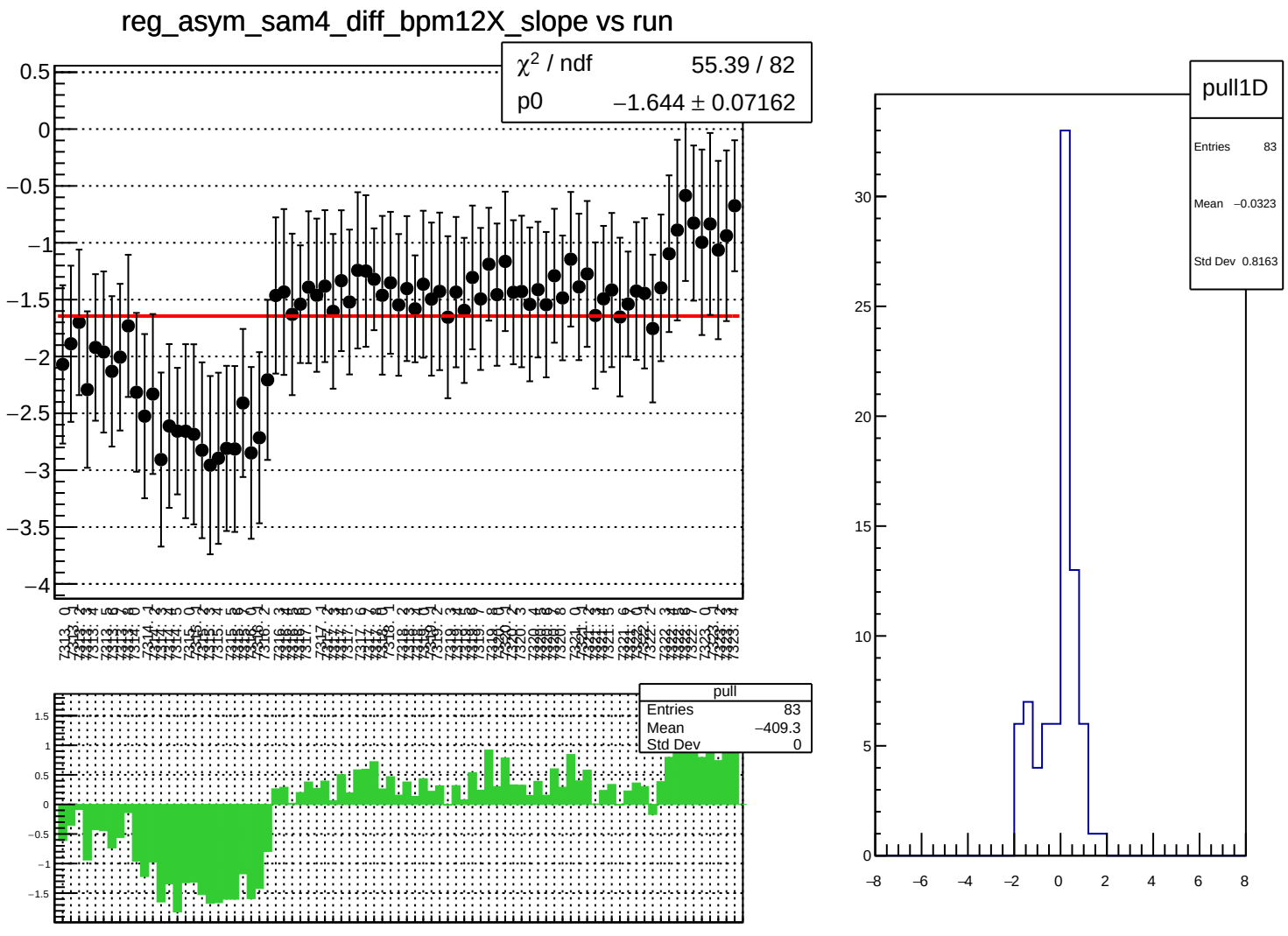

pull1D
Entries 83
Mean −0.03874
Std Dev 0.6045

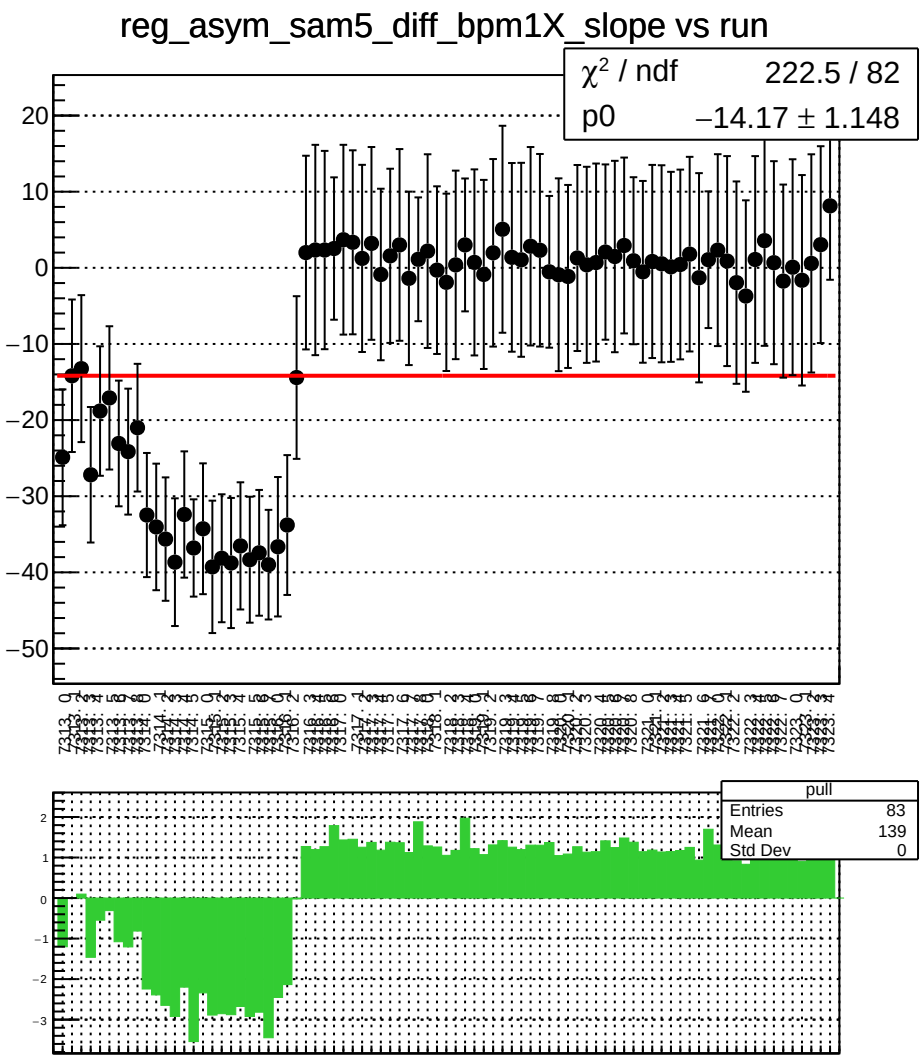

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1054 / 82
p0 −89.14 ± 2.023
pull
Entries 83
Mean 167.8
Std Dev 0
pull1D
Entries 83
Mean 0.4709
Std Dev 3.532

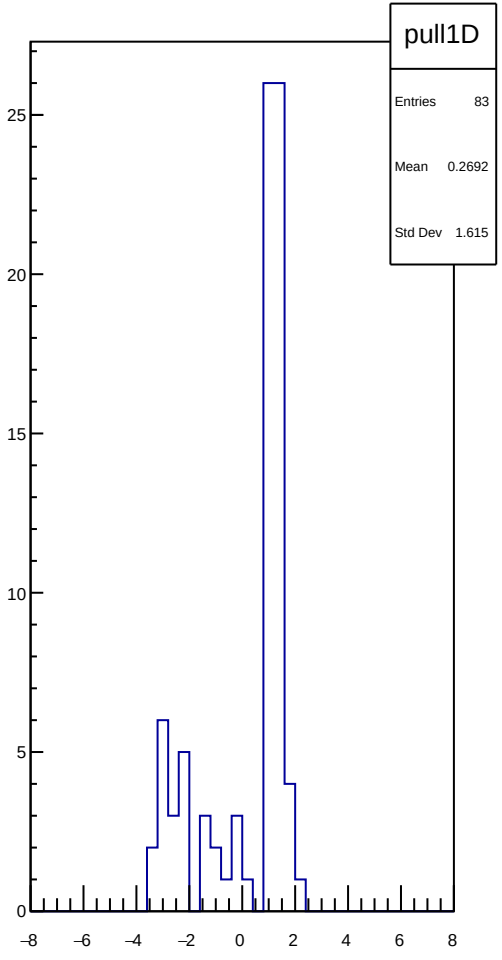

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 295.1 / 82
p0 37.05 ± 1.612
pull
Entries 83
Mean 2082
Std Dev 0
pull1D
Entries 83
Mean −0.01676
Std Dev 1.886

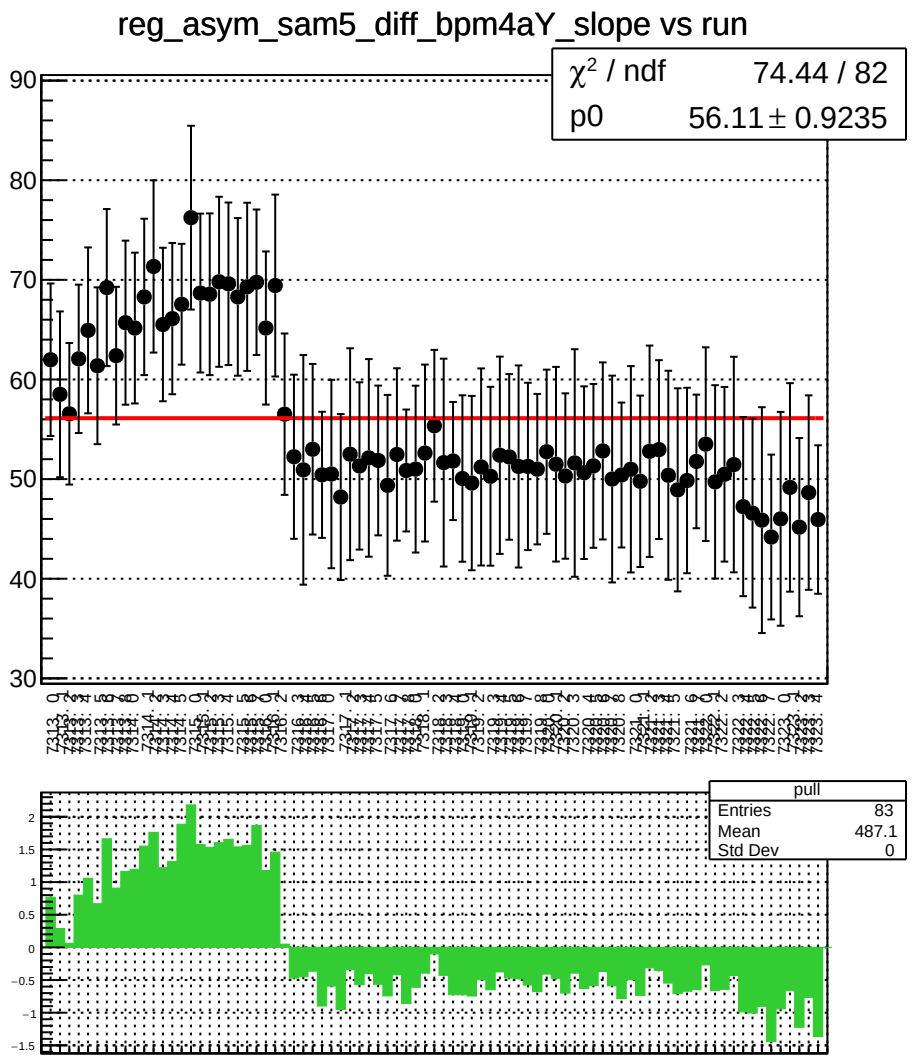

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 810 / 82
p0 −72.5 ± 2.011
pull
Entries 83
Mean 166.2
Std Dev 0
pull1D
Entries 83
Mean −0.4274
Std Dev 3.095

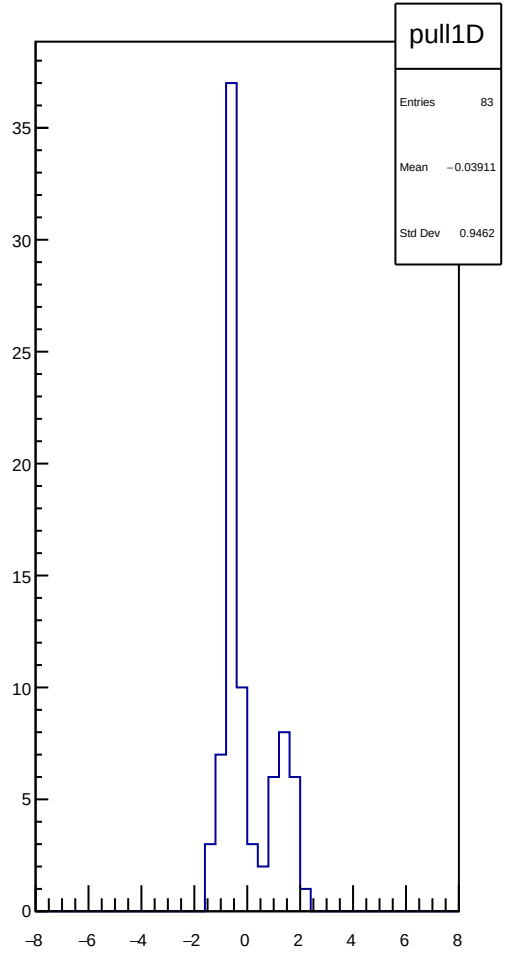

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 168 / 82
p0 170.4 ± 1.749
pull
Entries 83
Mean 800
Std Dev 0
pull1D
Entries 83
Mean 0.03652
Std Dev 1.422

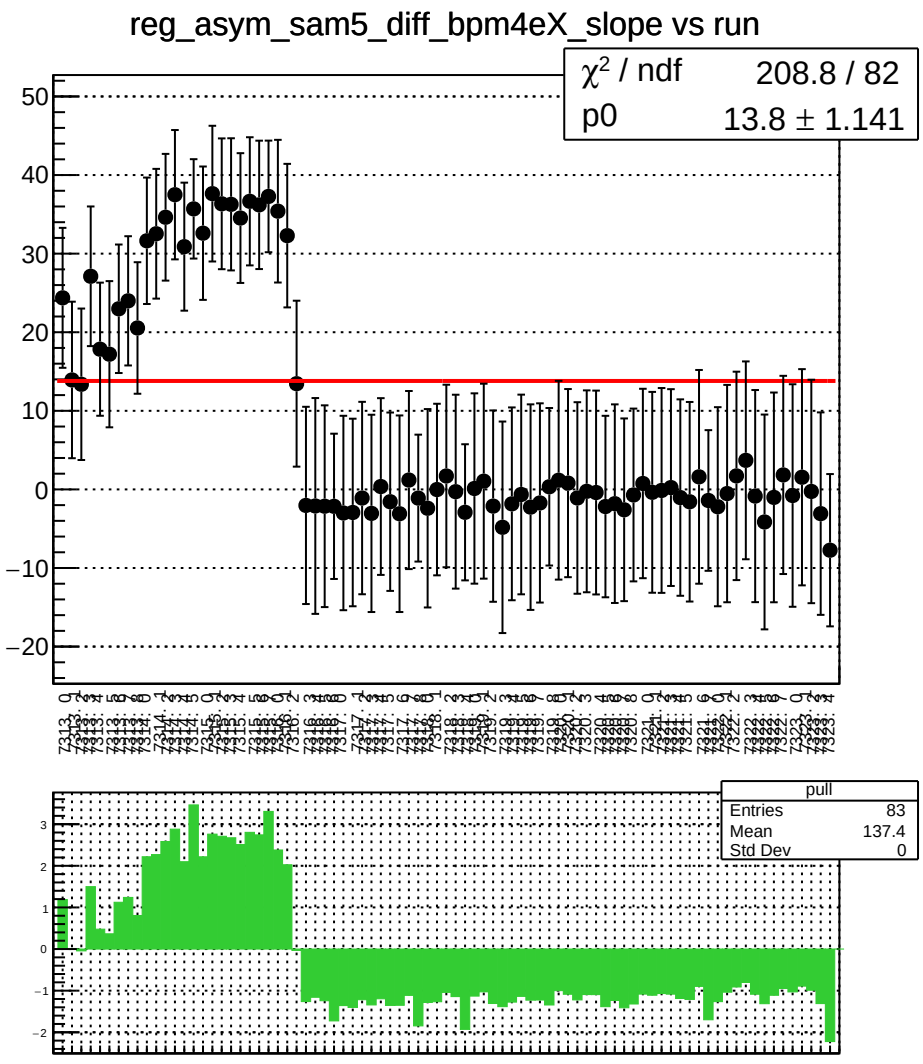

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 55.39 / 82
p0 −1.644 ± 0.07162
pull
Entries 83
Mean −409.3
Std Dev 0
pull1D
Entries 83
Mean −0.0323
Std Dev 0.8163

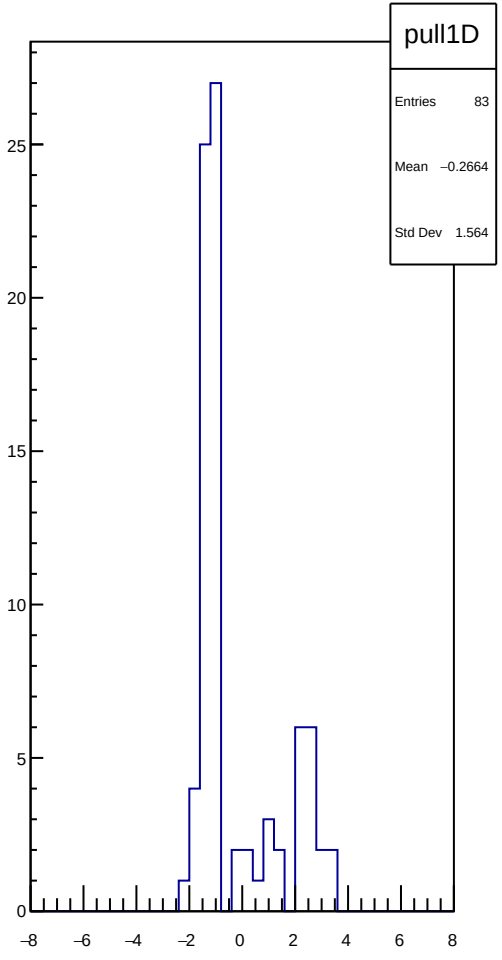

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 222.5 / 82
p0 −14.17 ± 1.148
pull
Entries 83
Mean 139
Std Dev 0

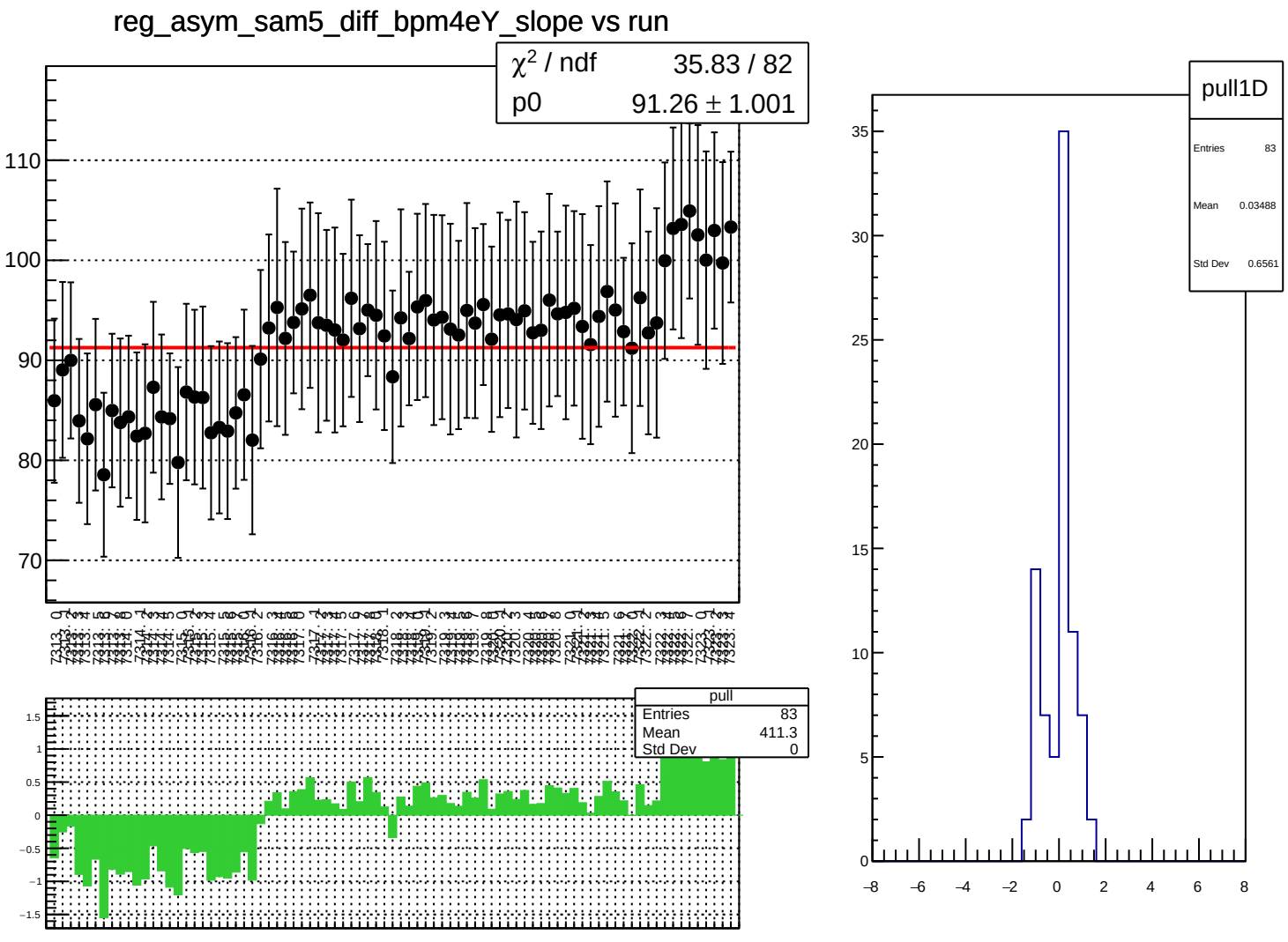

pull1D
Entries 83
Mean 0.2692
Std Dev 1.615

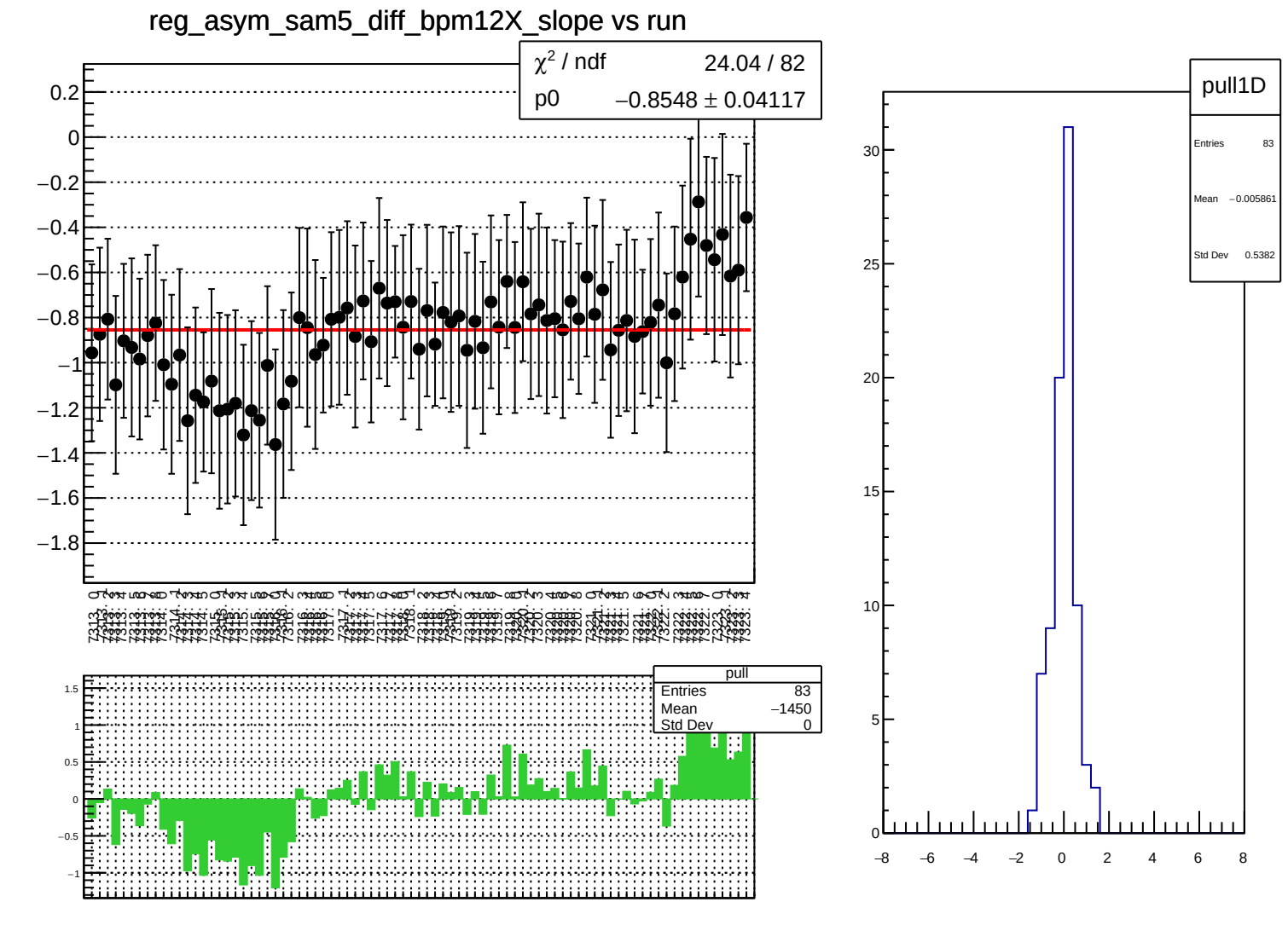

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 74.44 / 82
p0 56.11 ± 0.9235
pull
Entries 83
Mean 487.1
Std Dev 0

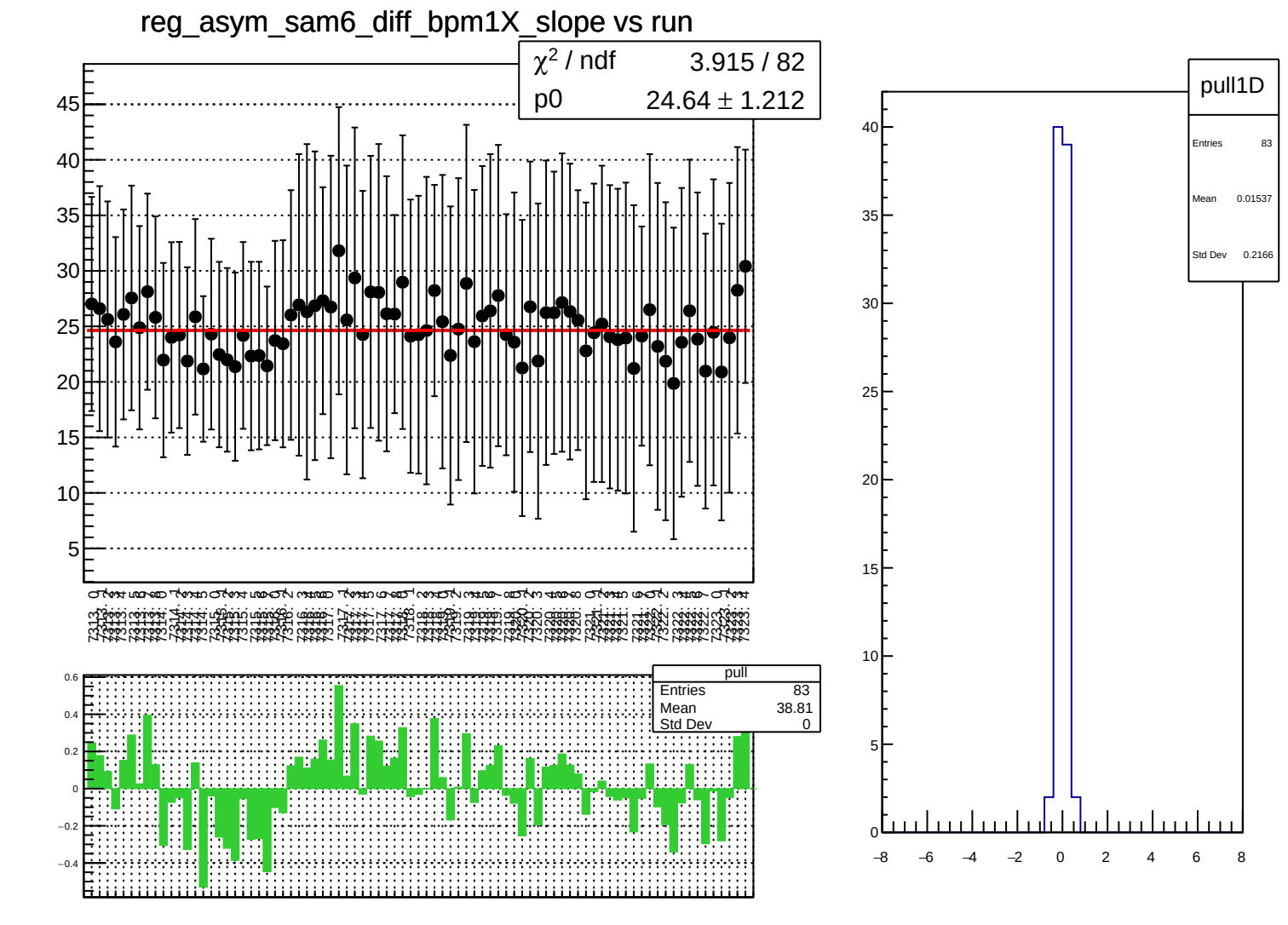

pull1D
Entries 83
Mean −0.03911
Std Dev 0.9462

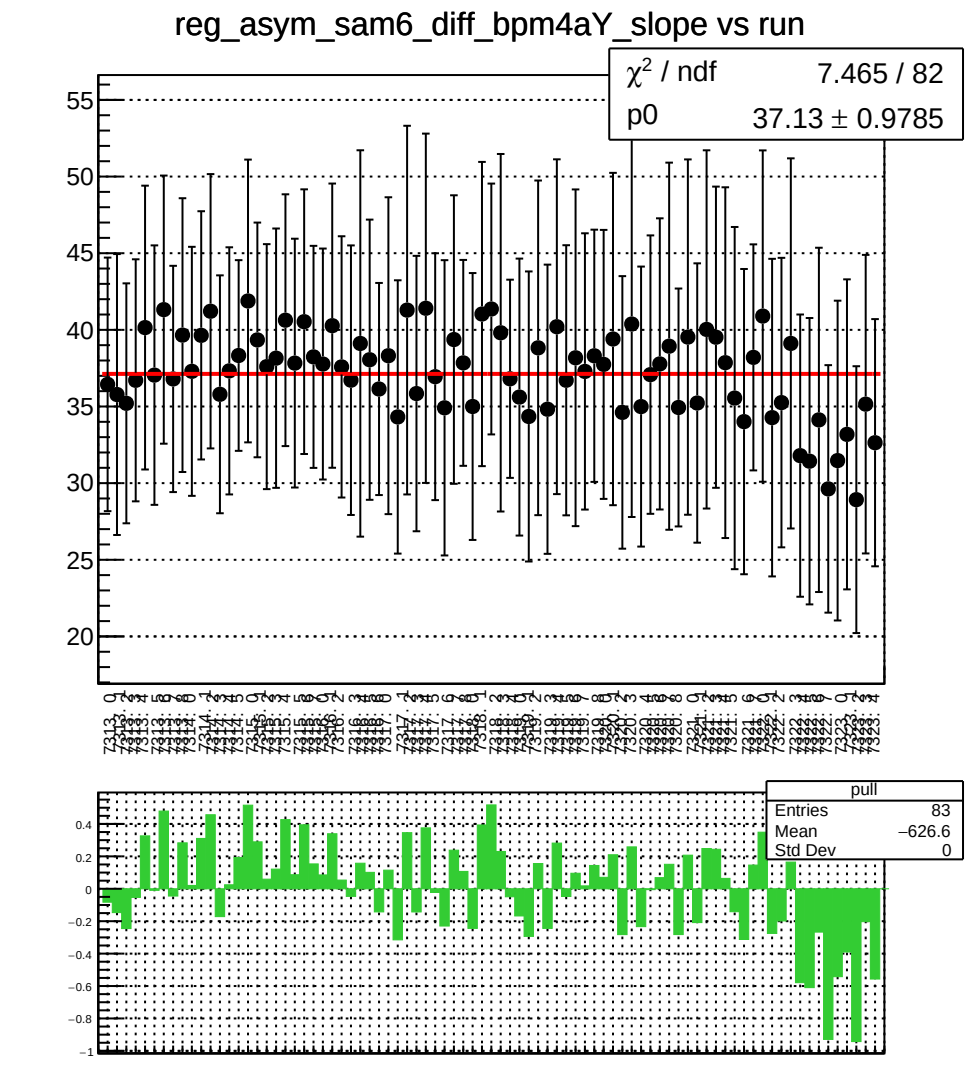

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 208.8 / 82
p0 13.8 ± 1.141
pull
Entries 83
Mean 137.4
Std Dev 0

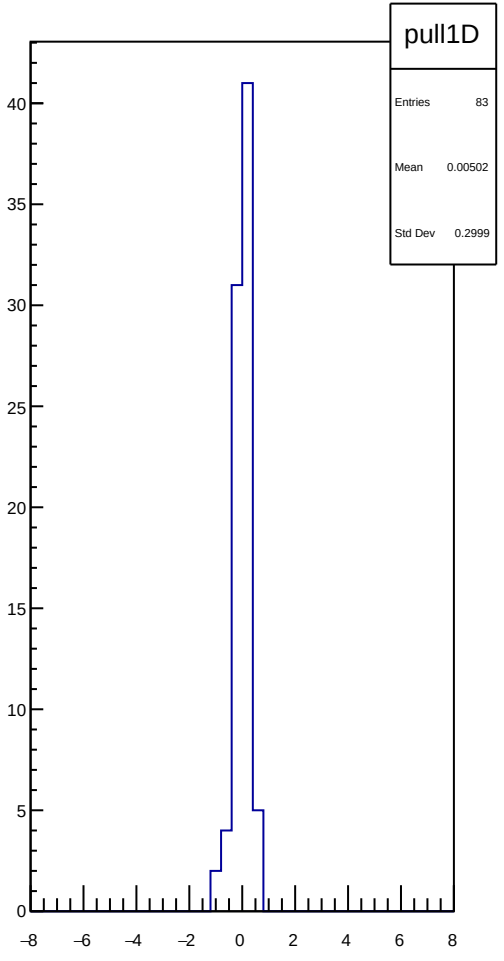

pull1D
Entries 83
Mean −0.2664
Std Dev 1.564

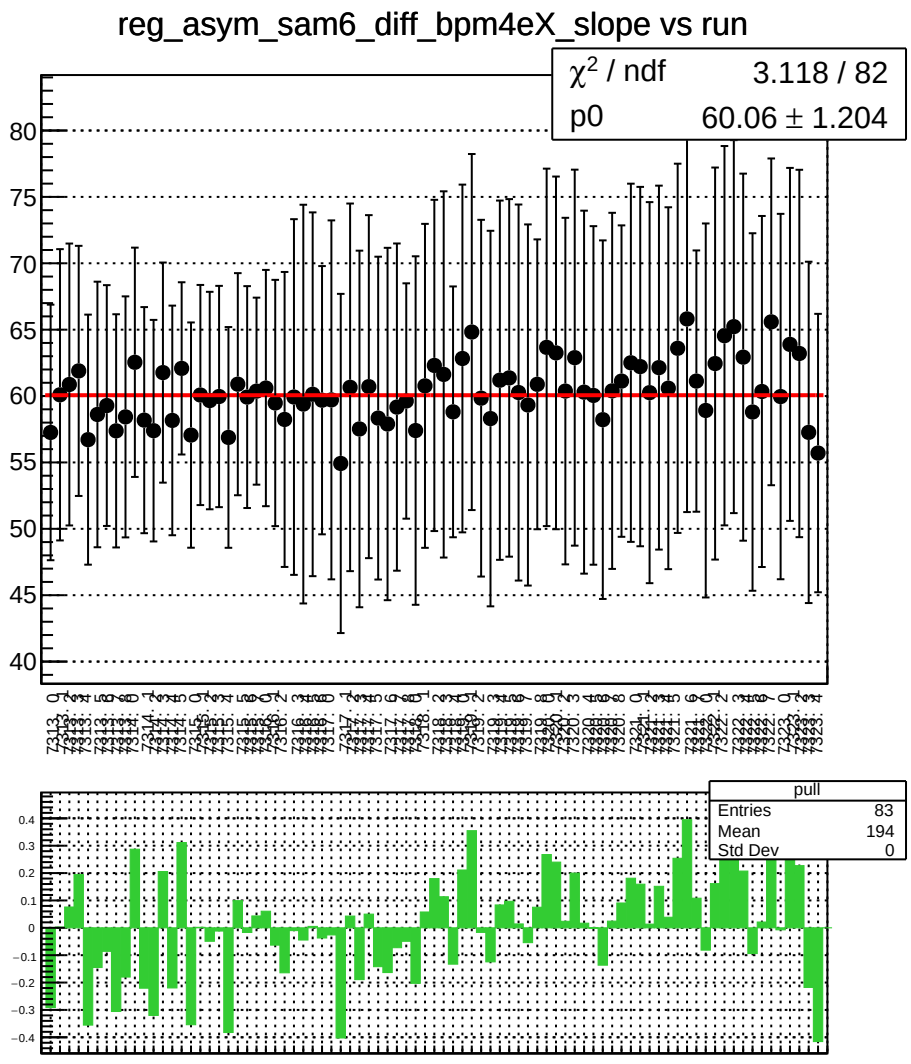

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 35.83 / 82
p0 91.26 ± 1.001
110
100
90
80
70
pull
Entries 83
Mean 411.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.03488
Std Dev 0.6561
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

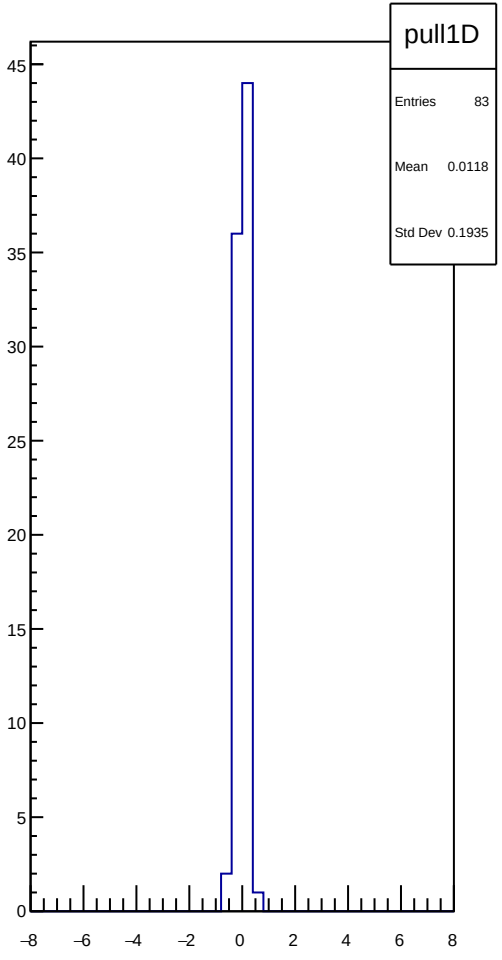

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 24.04 / 82
p0 −0.8548 ± 0.04117
pull
Entries 83
Mean −1450
Std Dev 0
pull1D
Entries 83
Mean −0.005861
Std Dev 0.5382

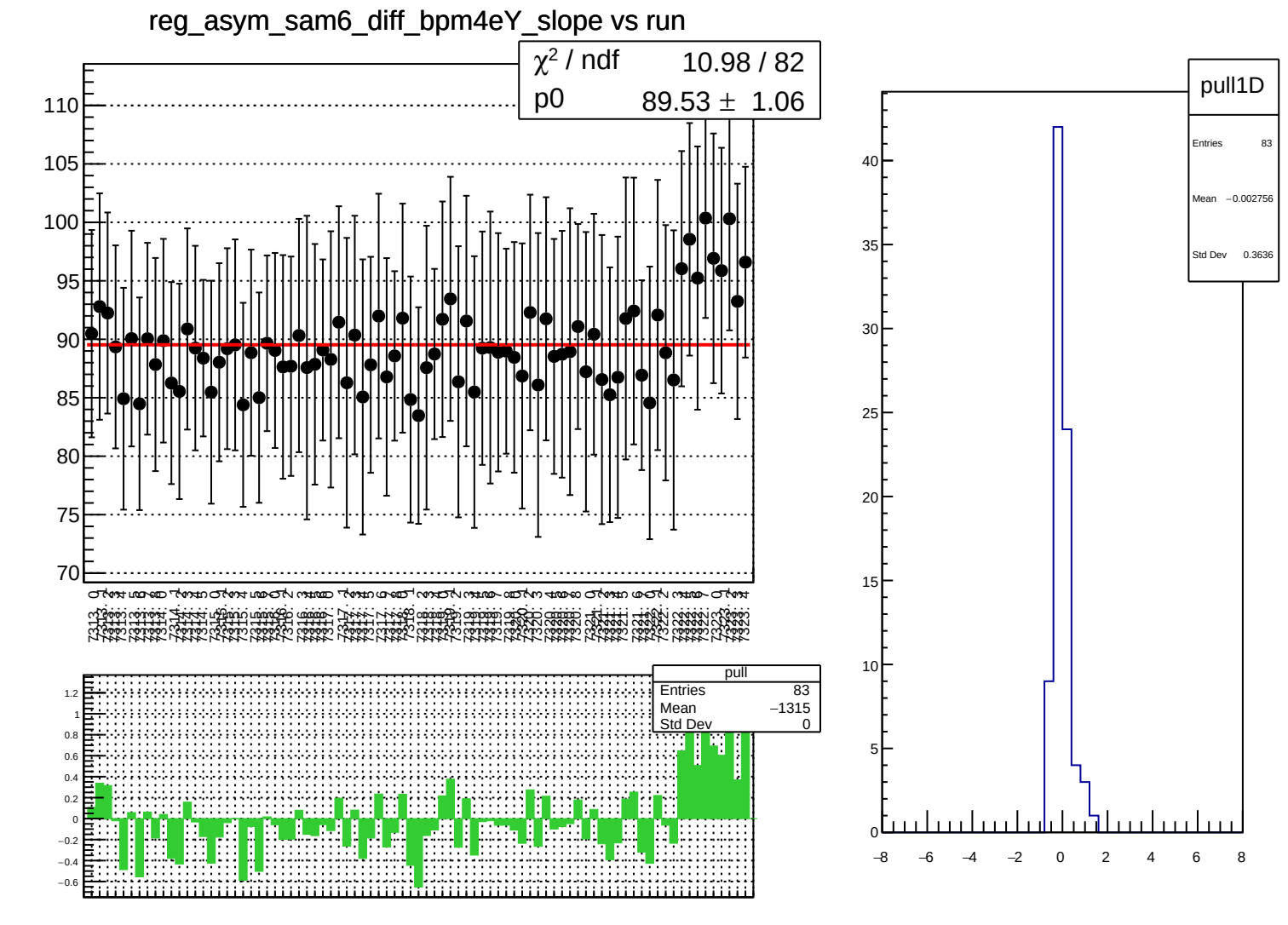

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.915 / 82
p0 24.64 ± 1.212
pull
Entries 83
Mean 38.81
Std Dev 0
pull1D
Entries 83
Mean 0.01537
Std Dev 0.2166

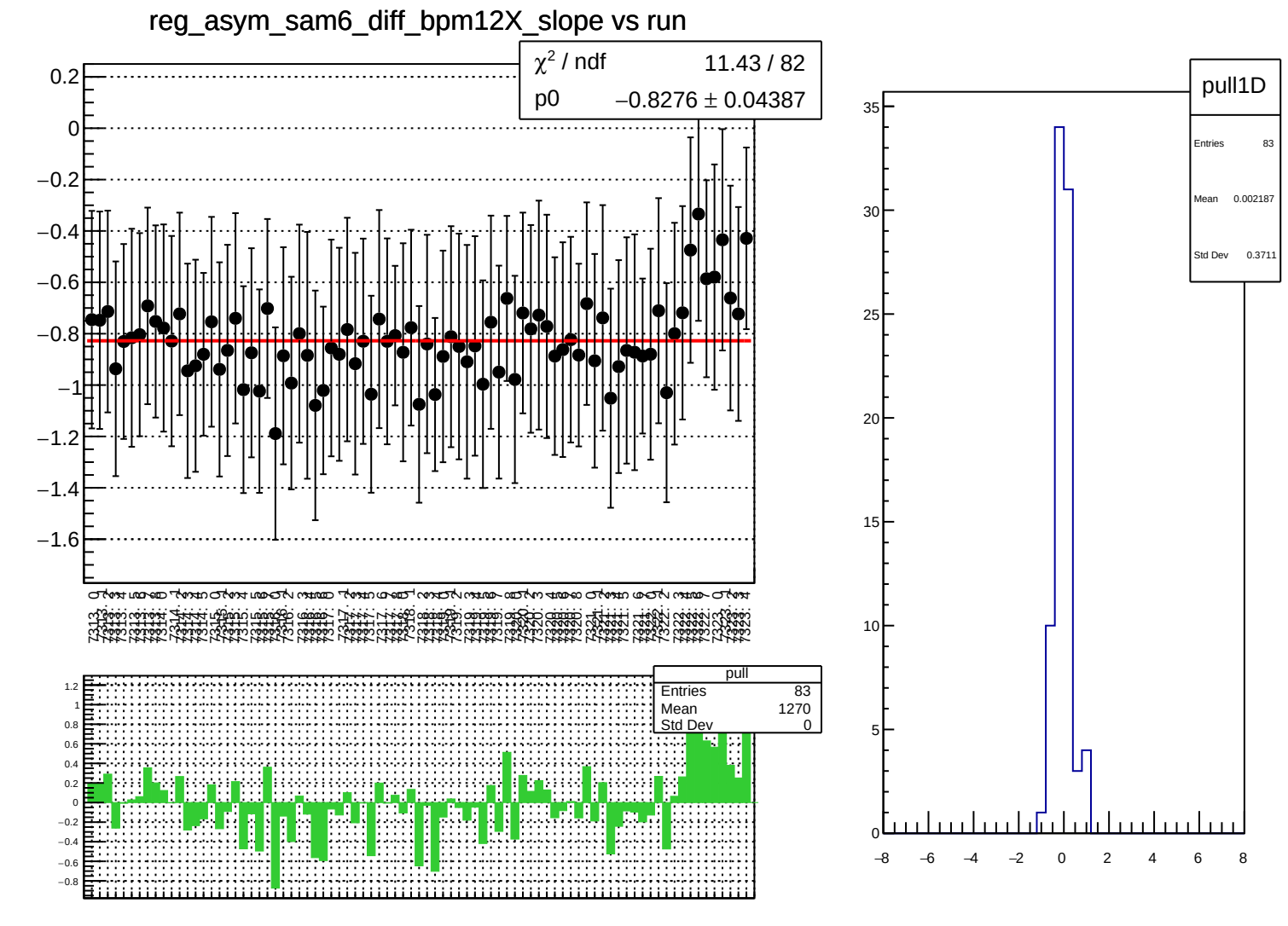

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 7.465 / 82
p0 37.13 ± 0.9785
pull
Entries 83
Mean −626.6
Std Dev 0

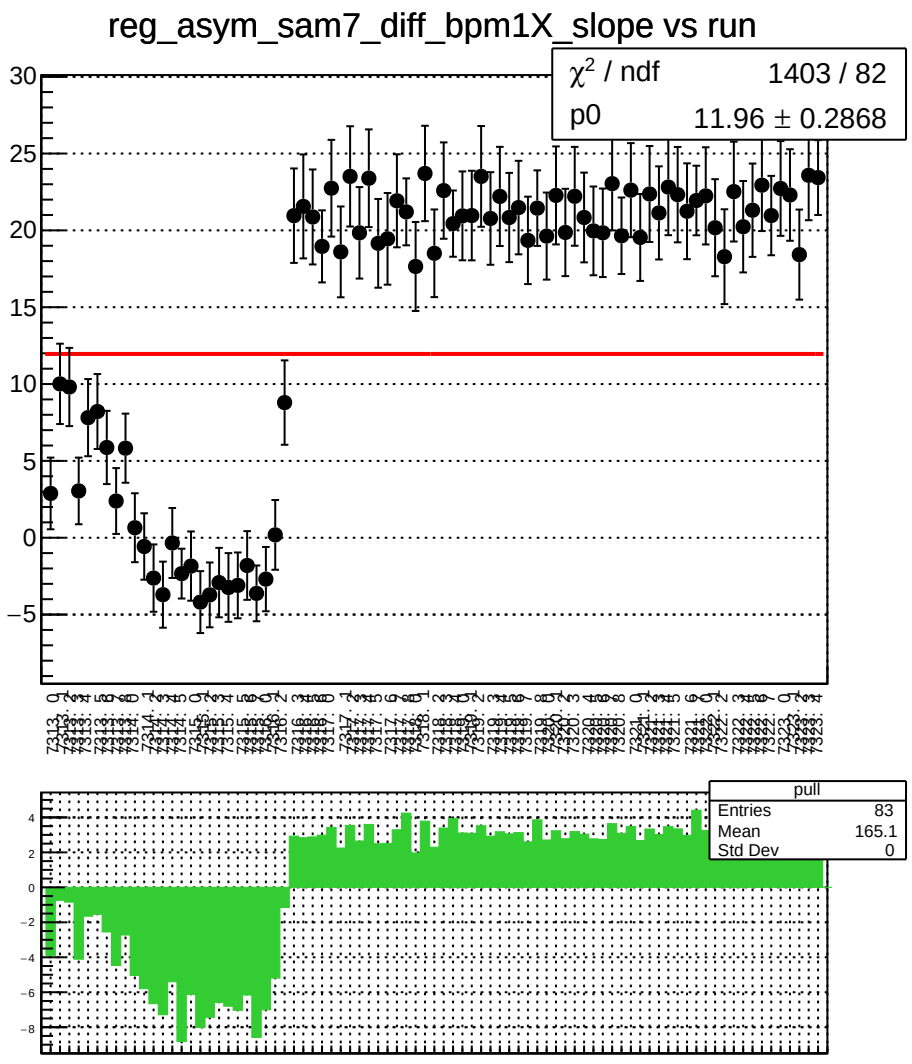

pull1D
Entries 83
Mean 0.00502
Std Dev 0.2999

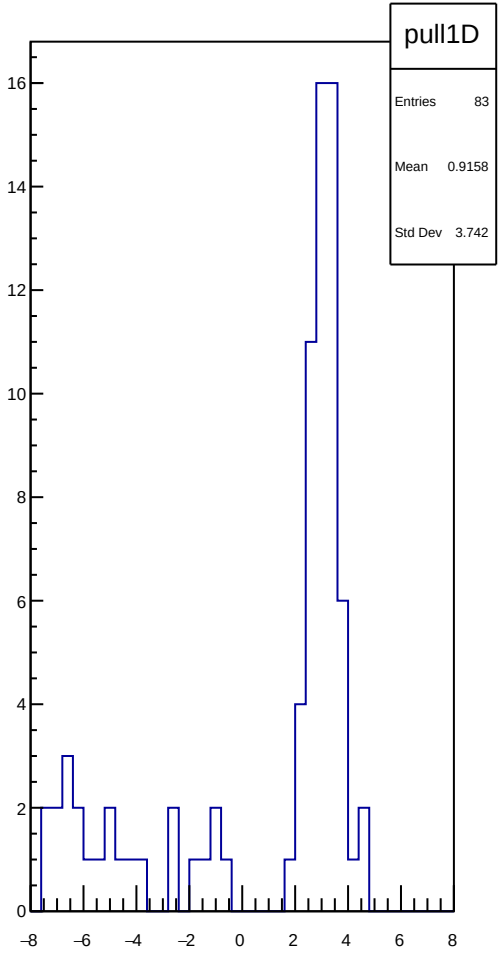

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.118 / 82
p0 60.06 ± 1.204
pull
Entries 83
Mean 194
Std Dev 0

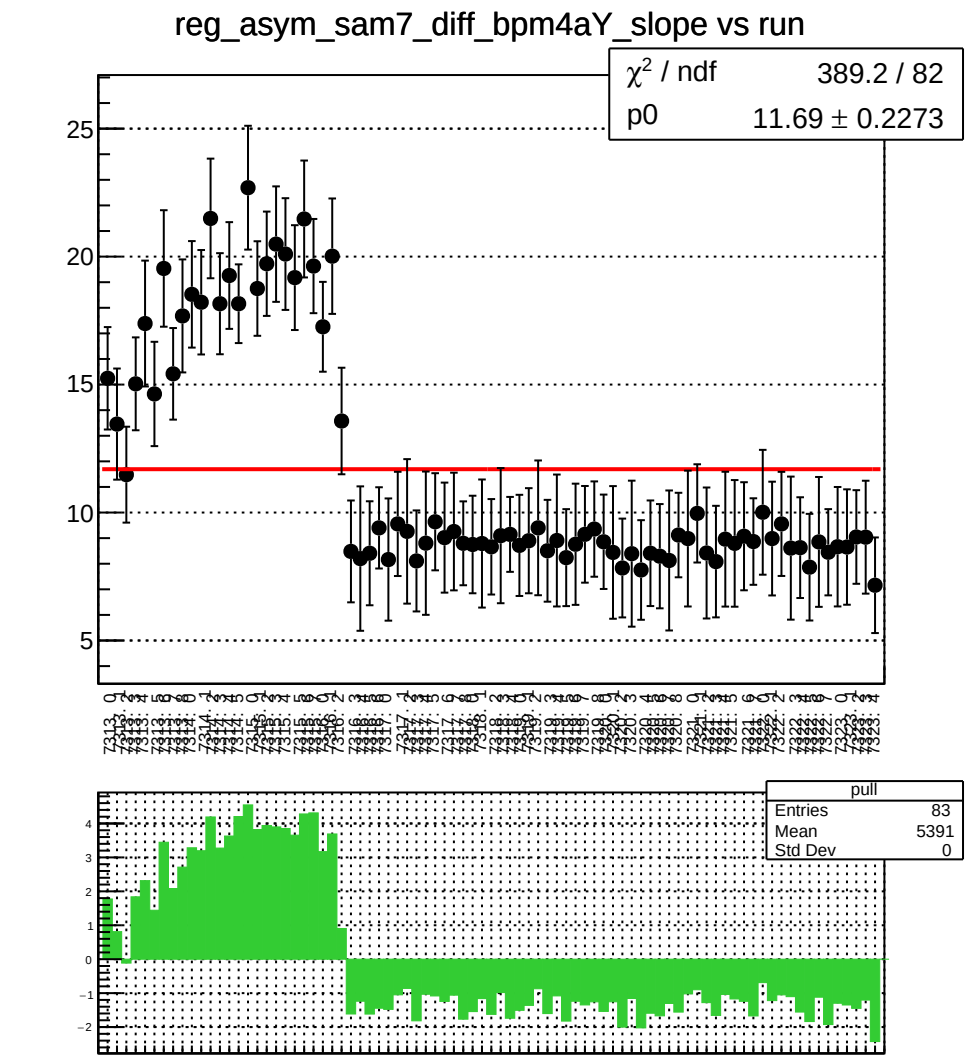

pull1D
Entries 83
Mean 0.0118
Std Dev 0.1935

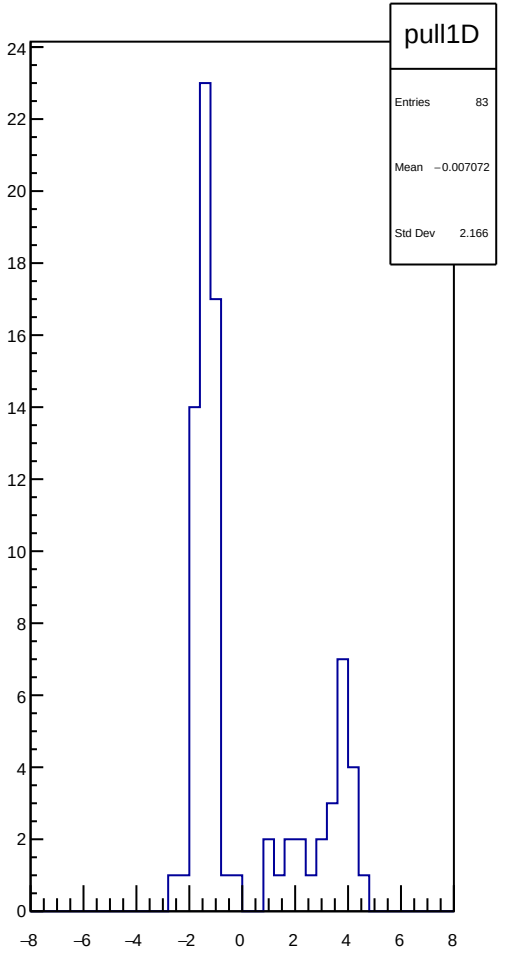

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.98 / 82
p0 89.53 ± 1.06
pull
Entries 83
Mean −1315
Std Dev 0
pull1D
Entries 83
Mean −0.002756
Std Dev 0.3636

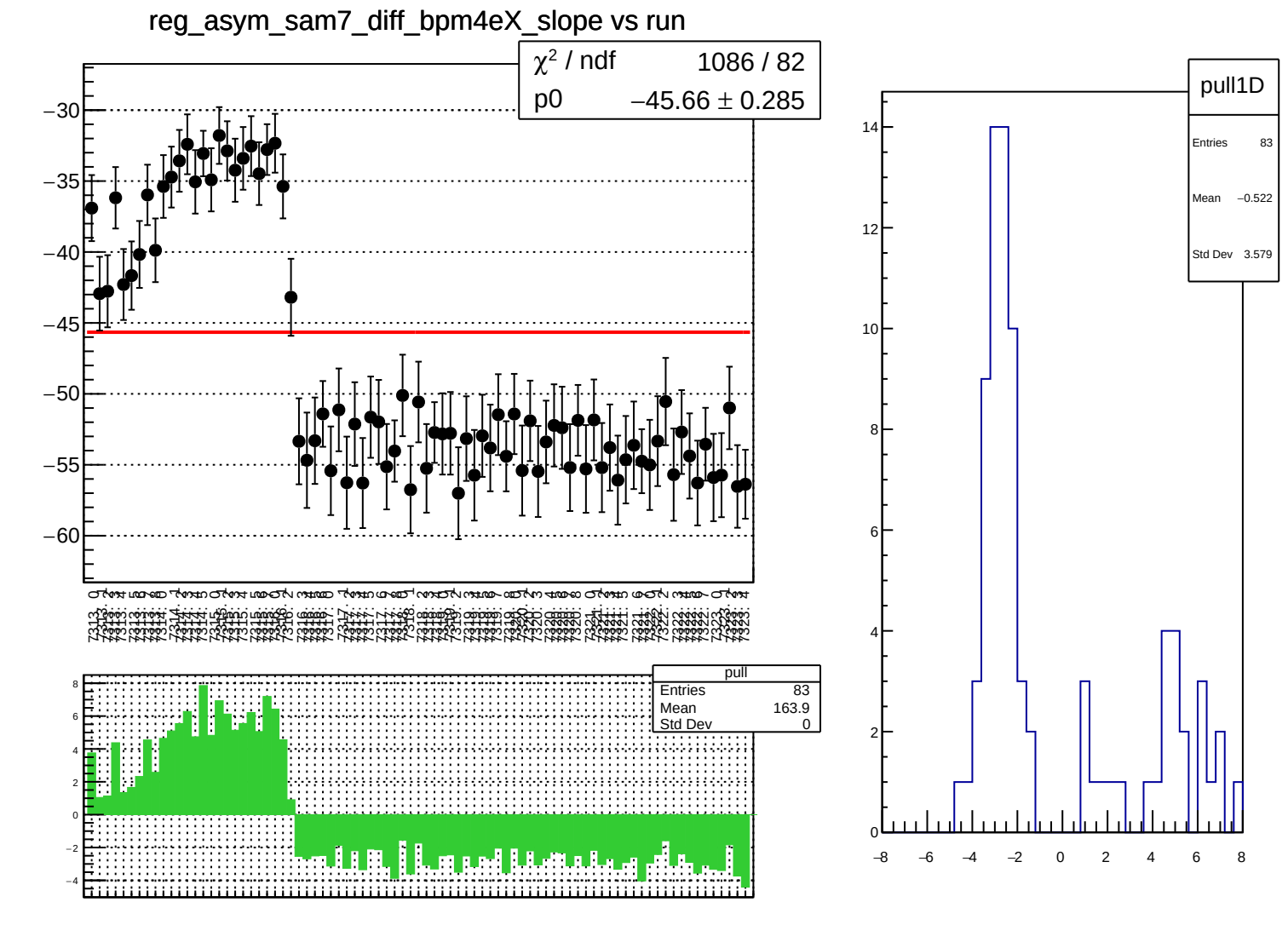

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 11.43 / 82
p0 −0.8276 ± 0.04387
pull
Entries 83
Mean 1270
Std Dev 0
pull1D
Entries 83
Mean 0.002187
Std Dev 0.3711

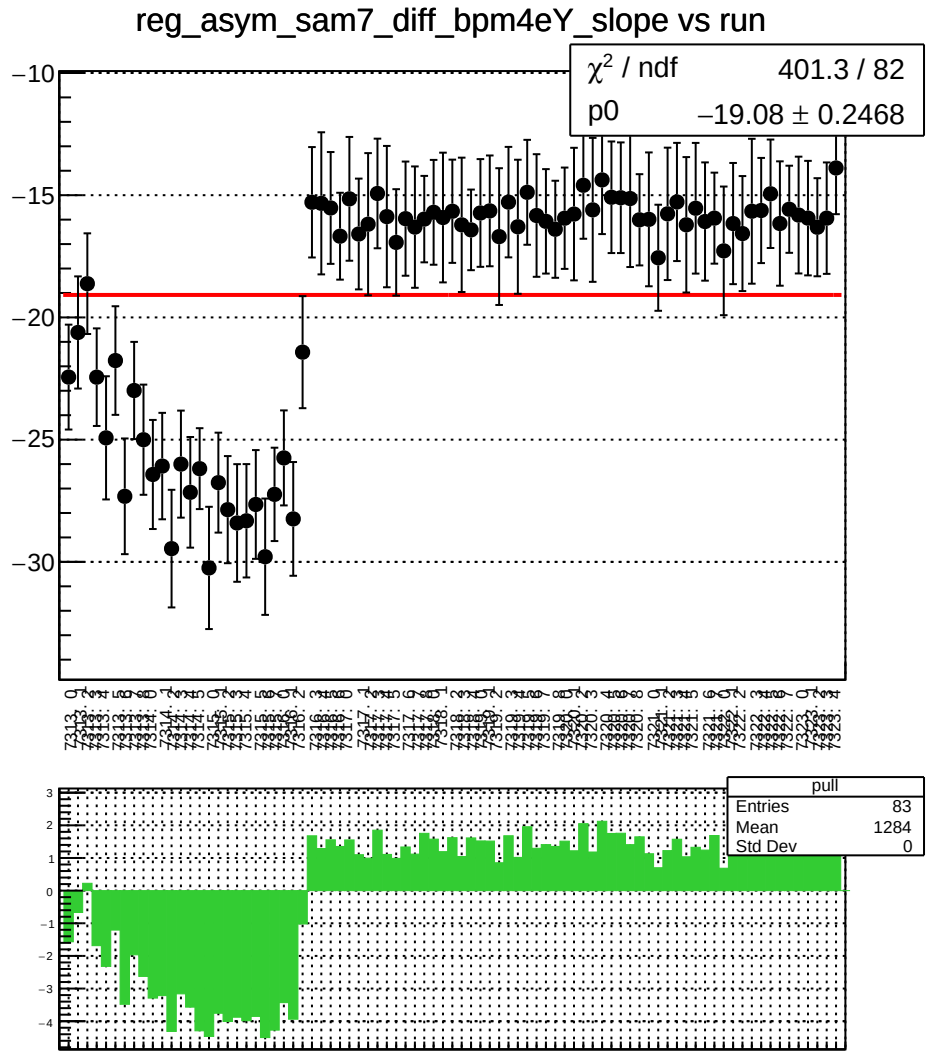

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1403 / 82
p0 11.96 ± 0.2868
pull
Entries 83
Mean 165.1
Std Dev 0

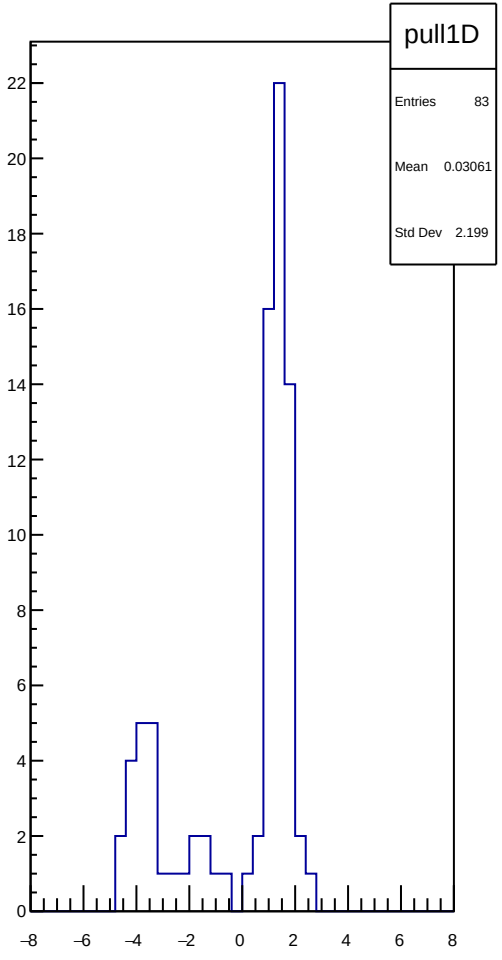

pull1D
Entries 83
Mean 0.9158
Std Dev 3.742

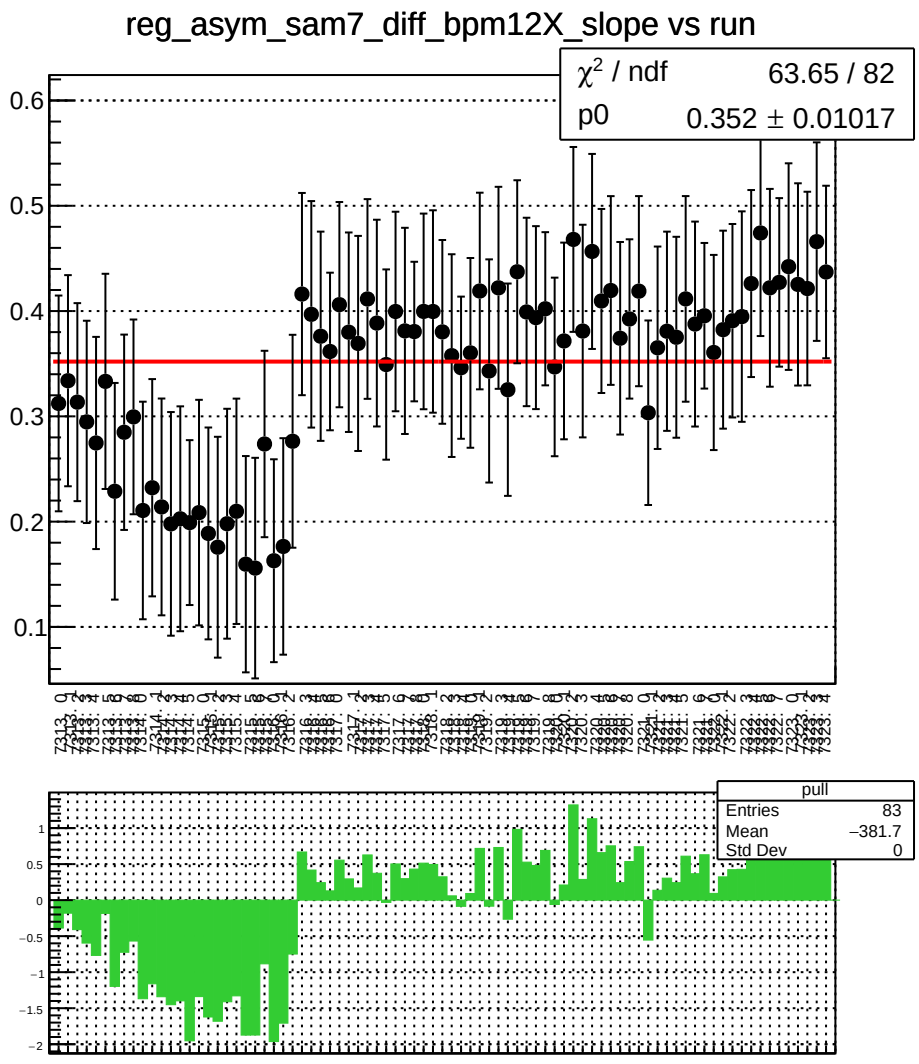

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 389.2 / 82
p0 11.69 ± 0.2273
pull
Entries 83
Mean 5391
Std Dev 0

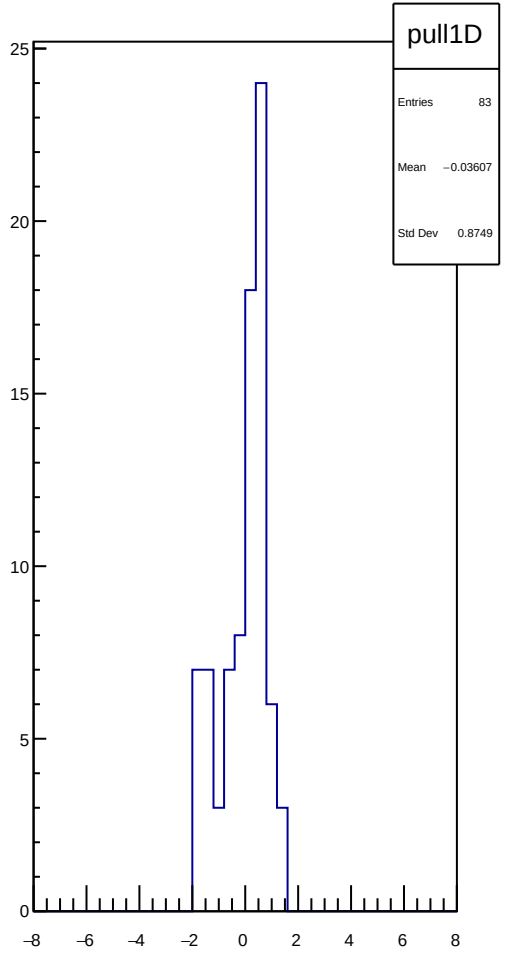

pull1D
Entries 83
Mean −0.007072
Std Dev 2.166

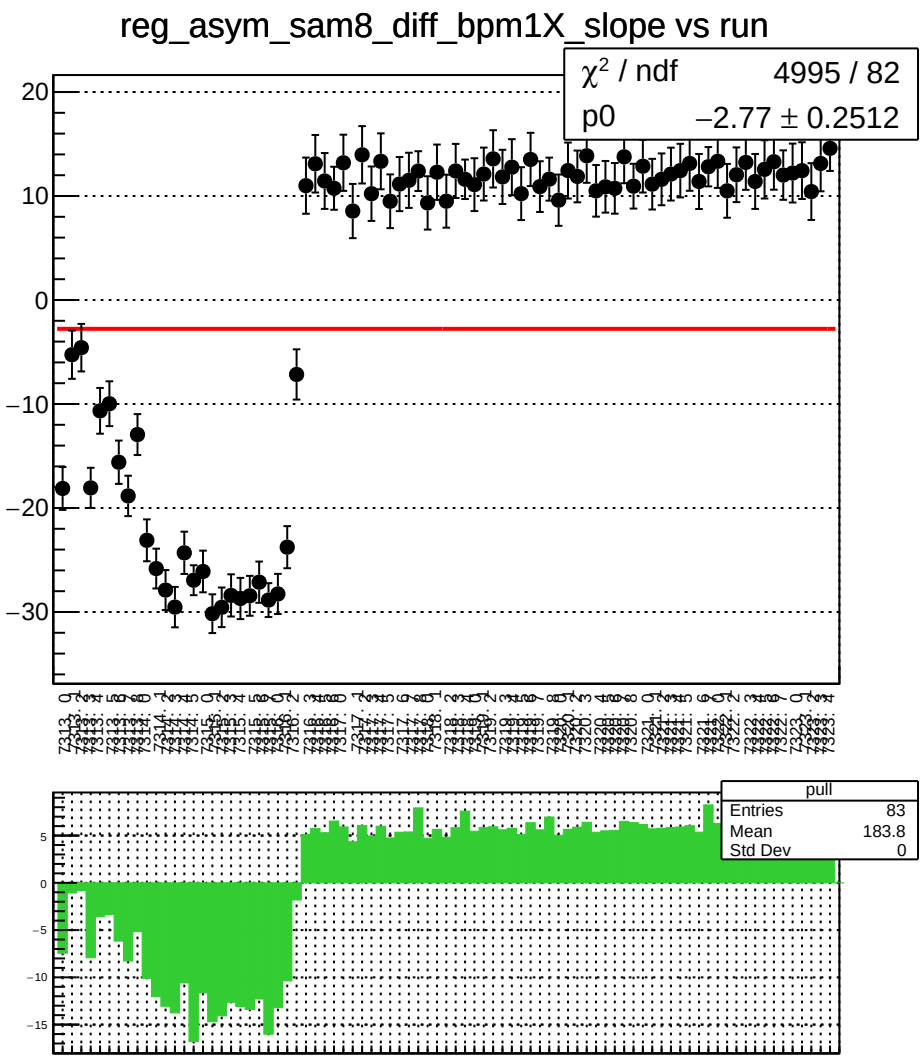

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1086 / 82
p0 −45.66 ± 0.285
pull
Entries 83
Mean 163.9
Std Dev 0
pull1D
Entries 83
Mean −0.522
Std Dev 3.579

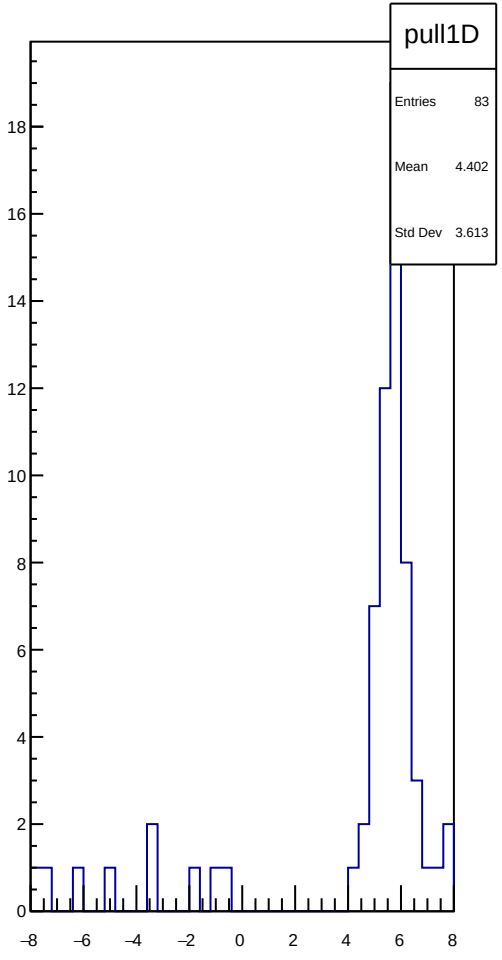

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 401.3 / 82
p0 −19.08 ± 0.2468
pull
Entries 83
Mean 1284
Std Dev 0

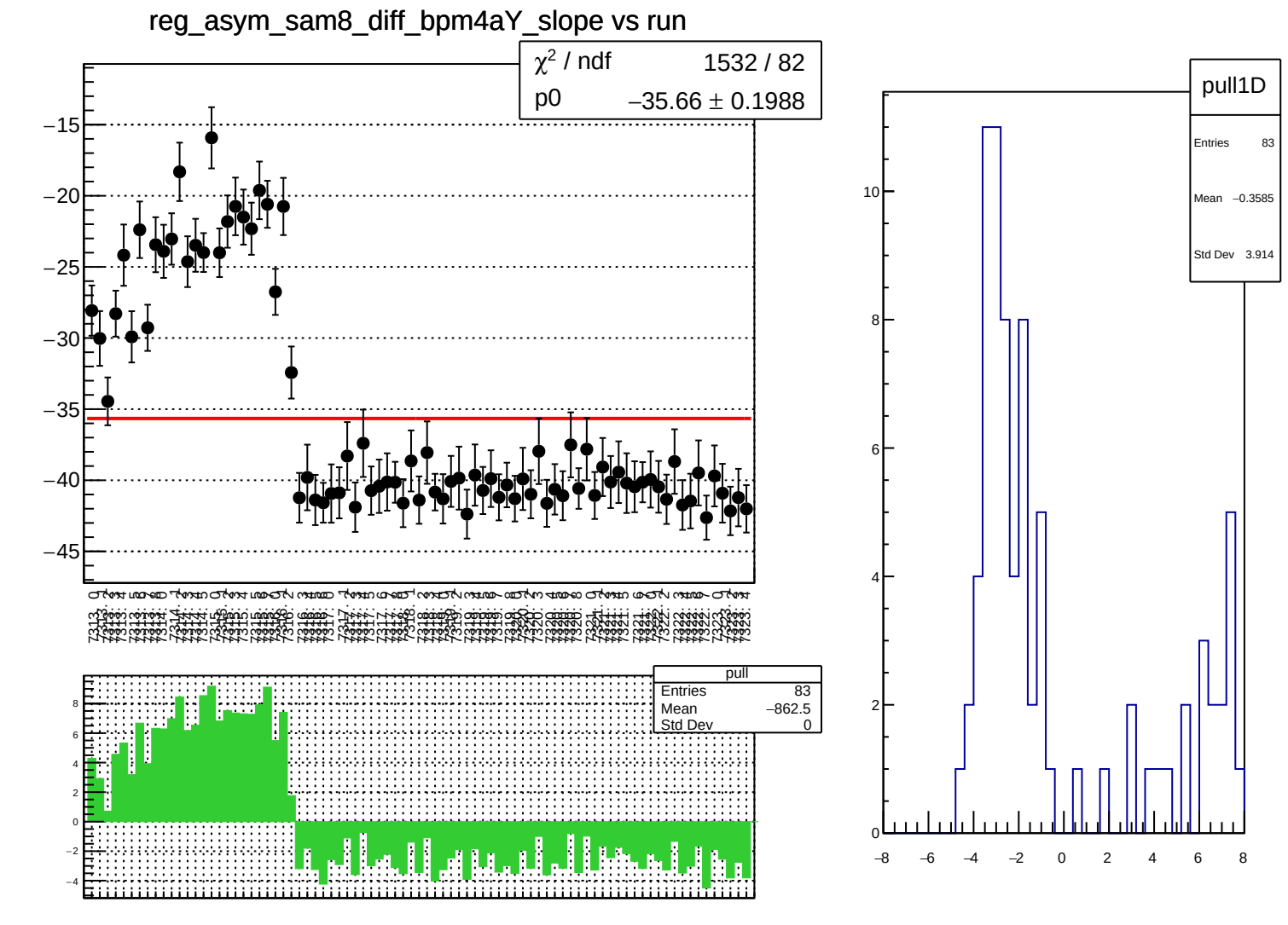

pull1D
Entries 83
Mean 0.03061
Std Dev 2.199

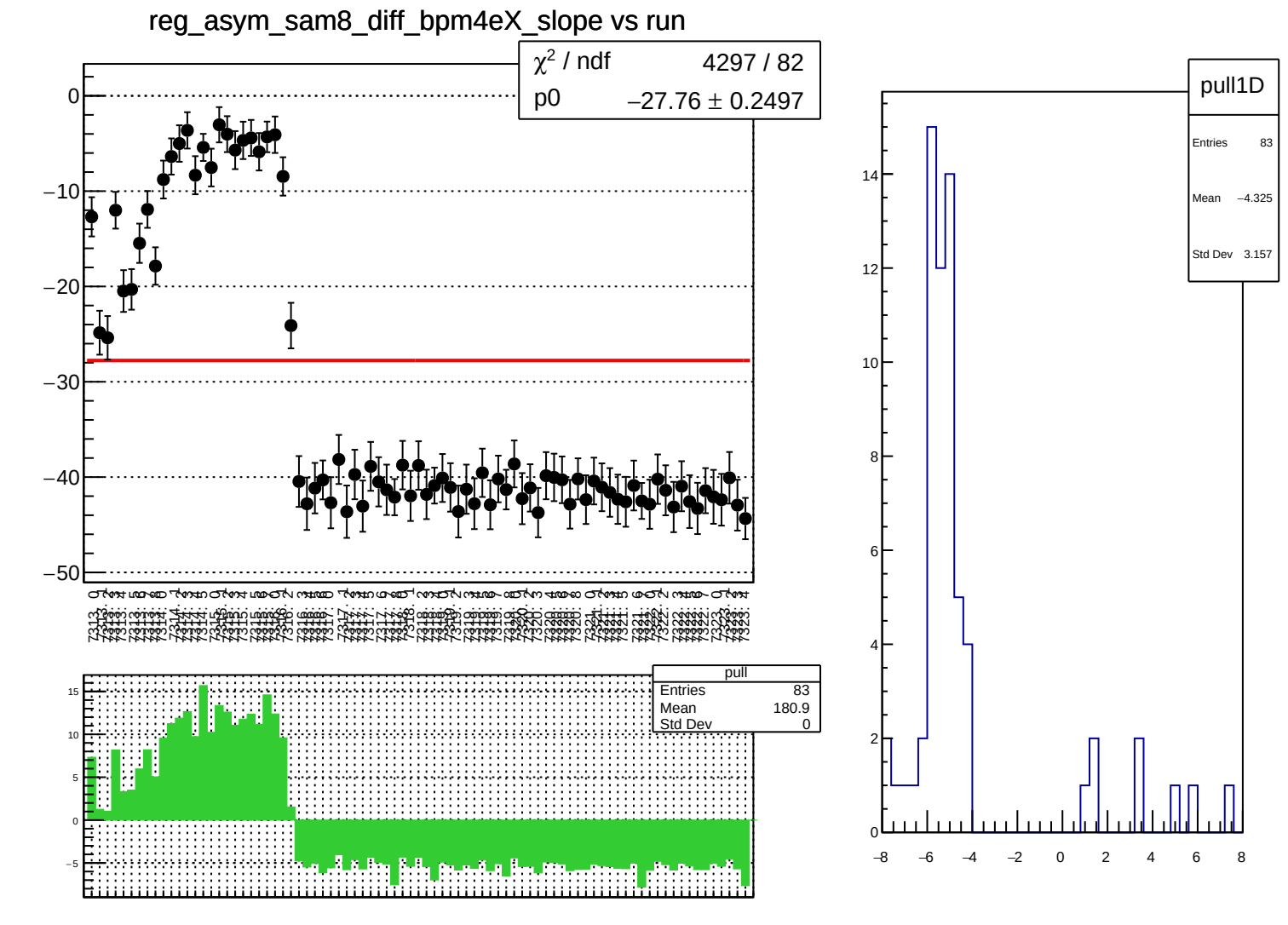

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 63.65 / 82
p0 0.352 ± 0.01017
pull
Entries 83
Mean −381.7
Std Dev 0

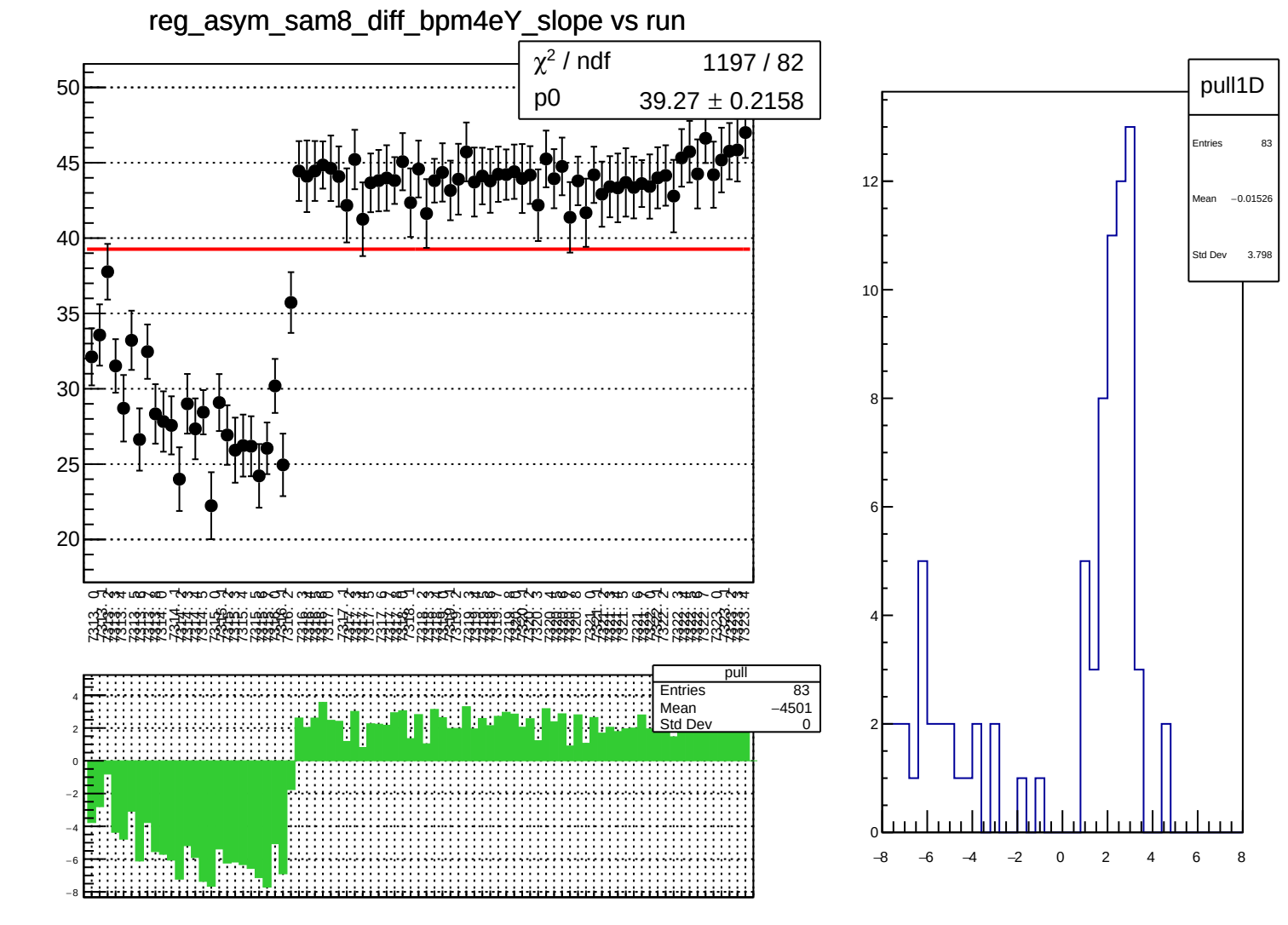

pull1D
Entries 83
Mean −0.03607
Std Dev 0.8749

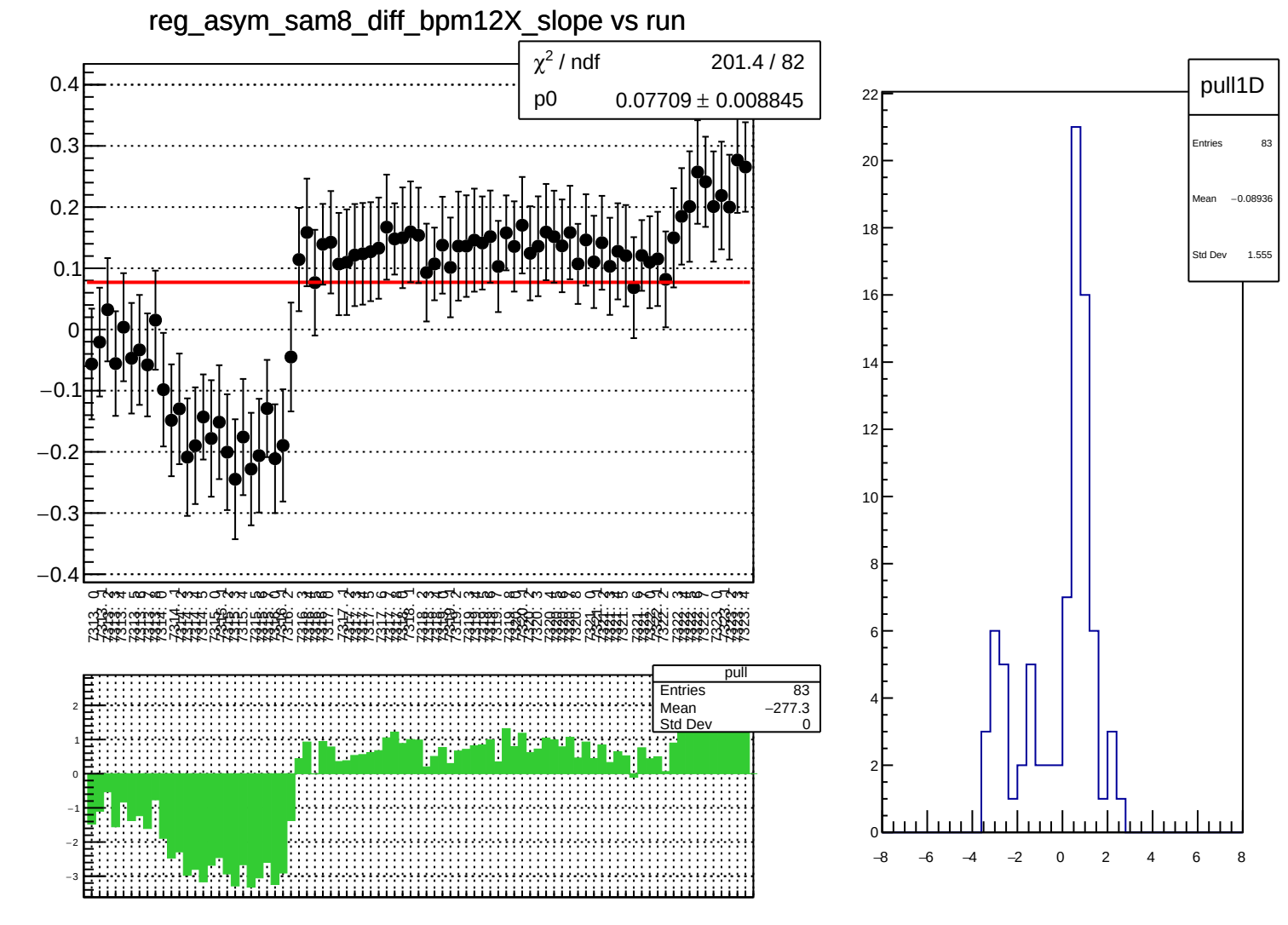

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 4995 / 82
p0 −2.77 ± 0.2512
pull
Entries 83
Mean 183.8
Std Dev 0

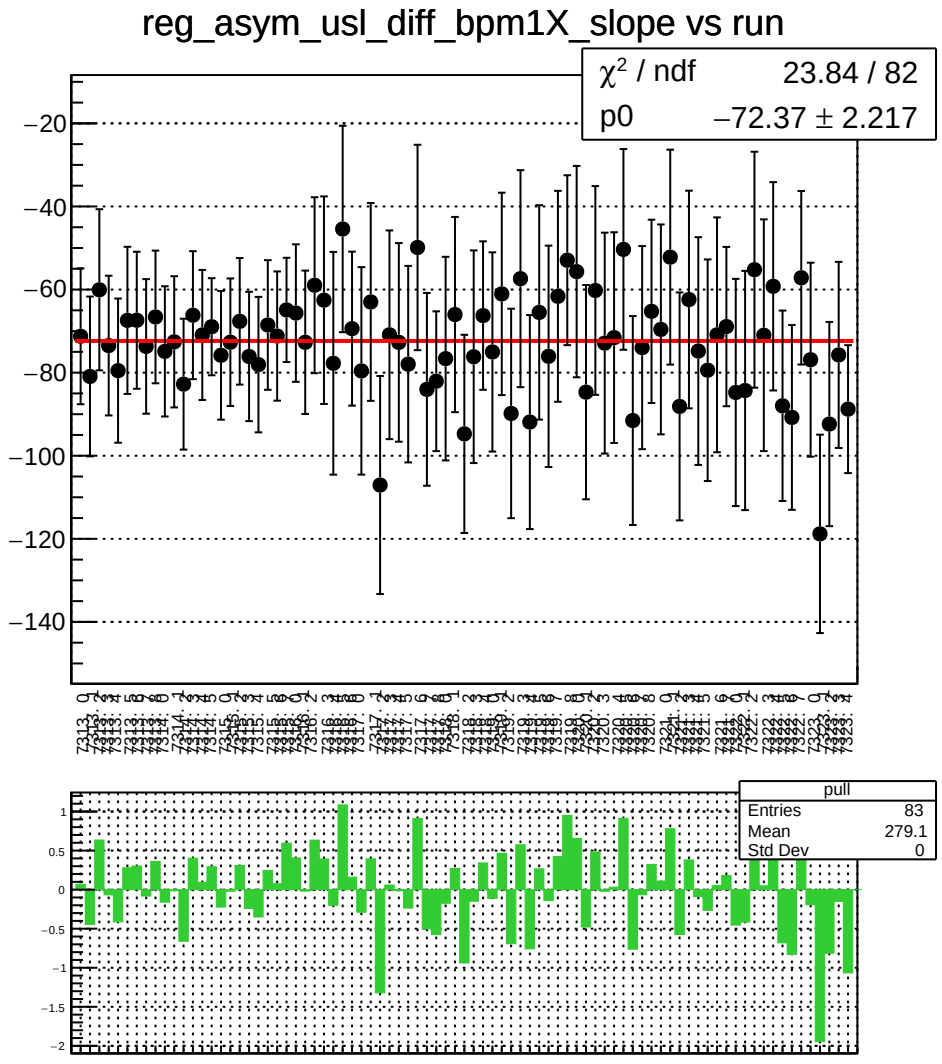

pull1D
Entries 83
Mean 4.402
Std Dev 3.613

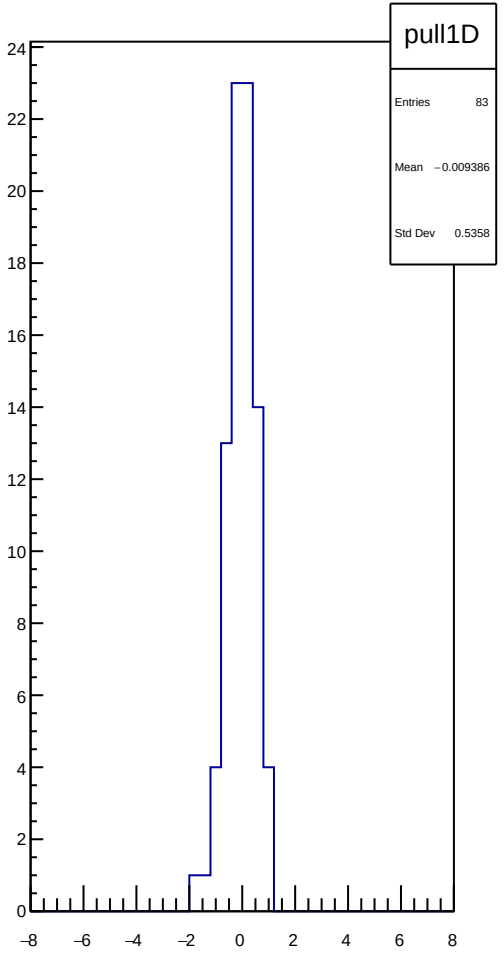

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1532 / 82
p0 −35.66 ± 0.1988
pull
Entries 83
Mean −862.5
Std Dev 0
pull1D
Entries 83
Mean −0.3585
Std Dev 3.914

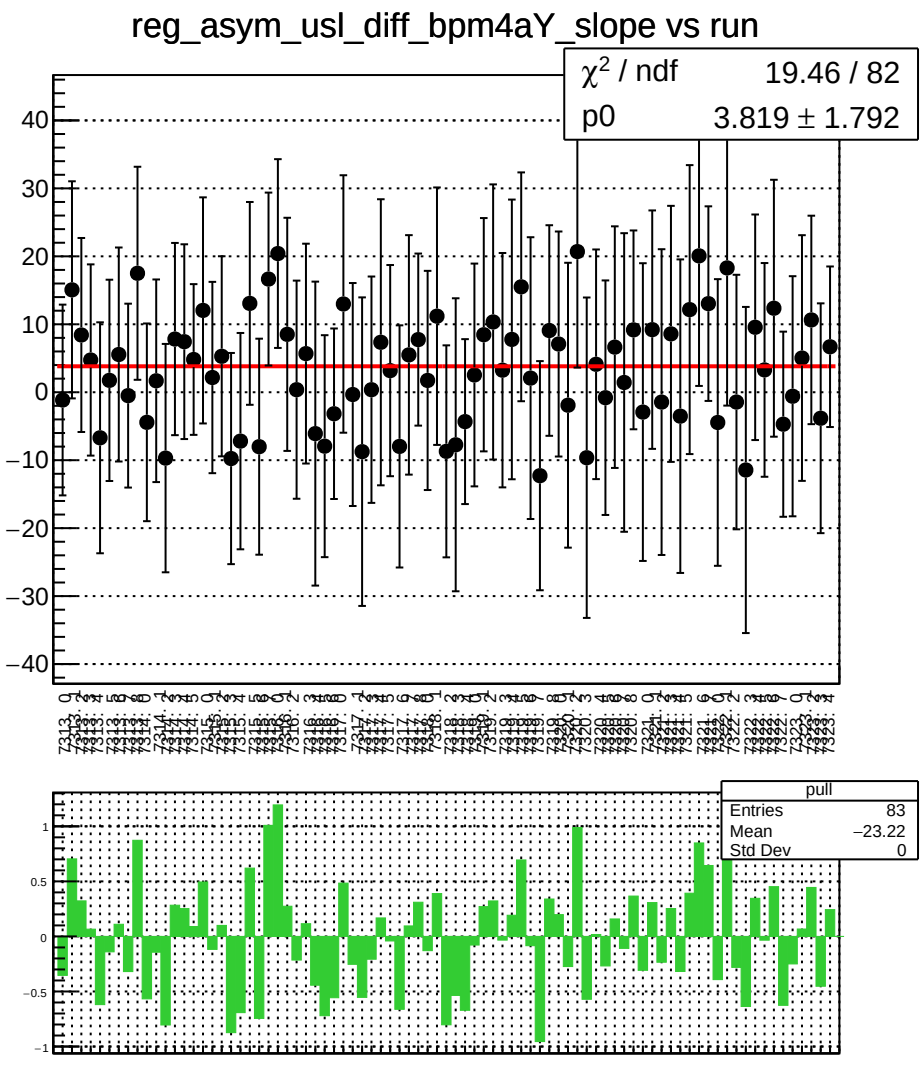

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 4297 / 82
p0 −27.76 ± 0.2497
pull
Entries 83
Mean 180.9
Std Dev 0
pull1D
Entries 83
Mean −4.325
Std Dev 3.157

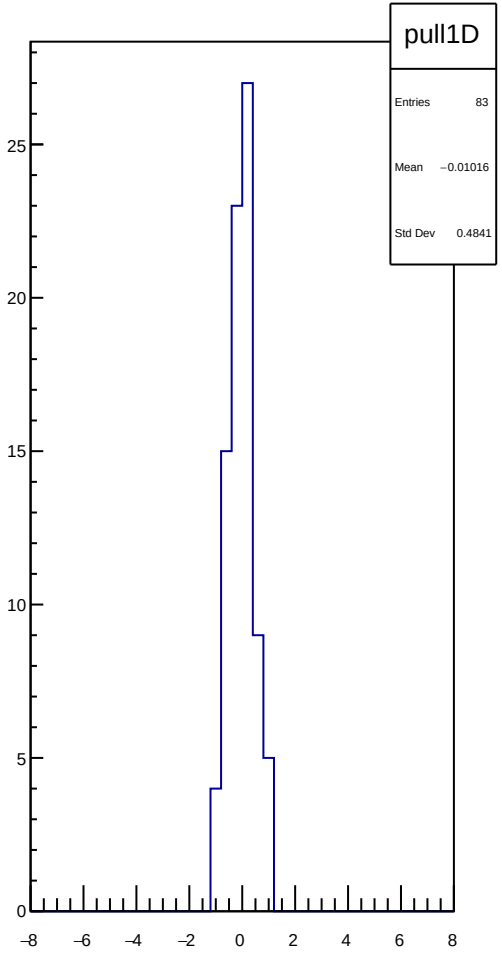

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1197 / 82
p0 39.27 ± 0.2158
pull
Entries 83
Mean −4501
Std Dev 0
pull1D
Entries 83
Mean −0.01526
Std Dev 3.798

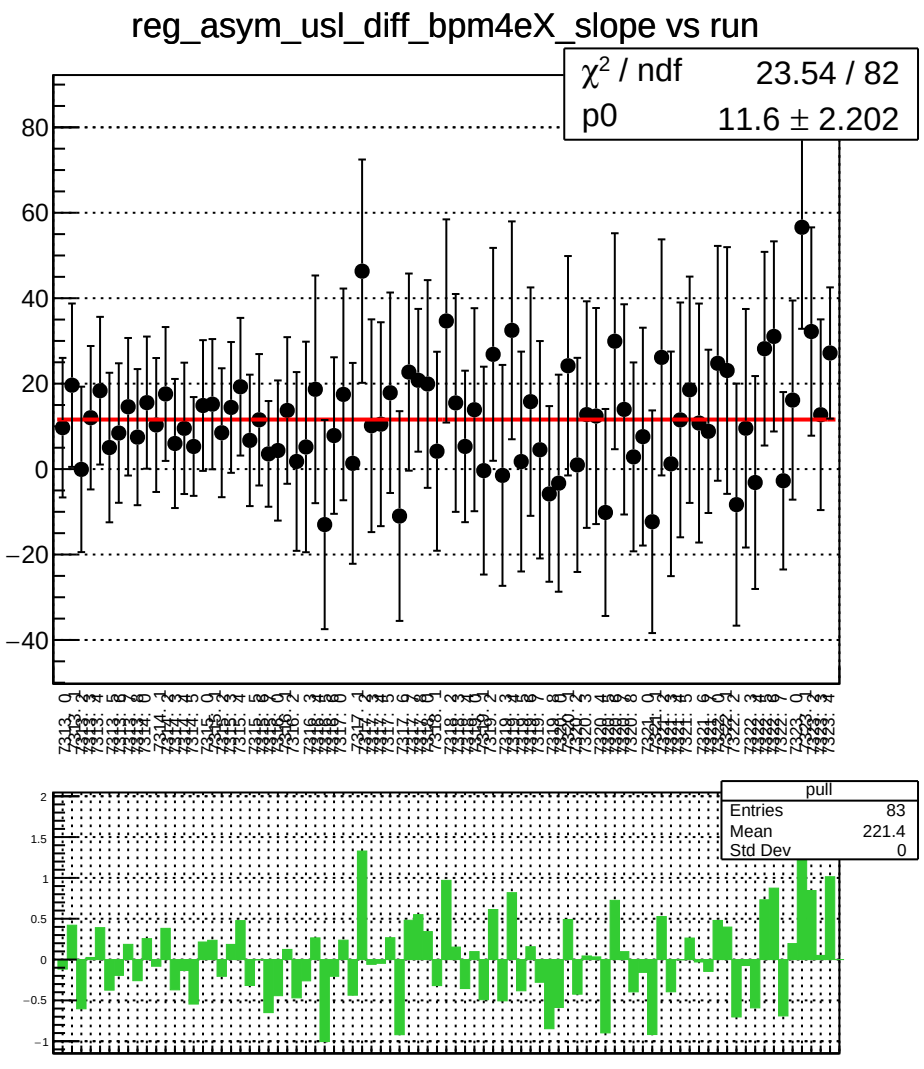

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 201.4 / 82
p0 0.07709 ± 0.008845
pull
Entries 83
Mean −277.3
Std Dev 0
pull1D
Entries 83
Mean −0.08936
Std Dev 1.555

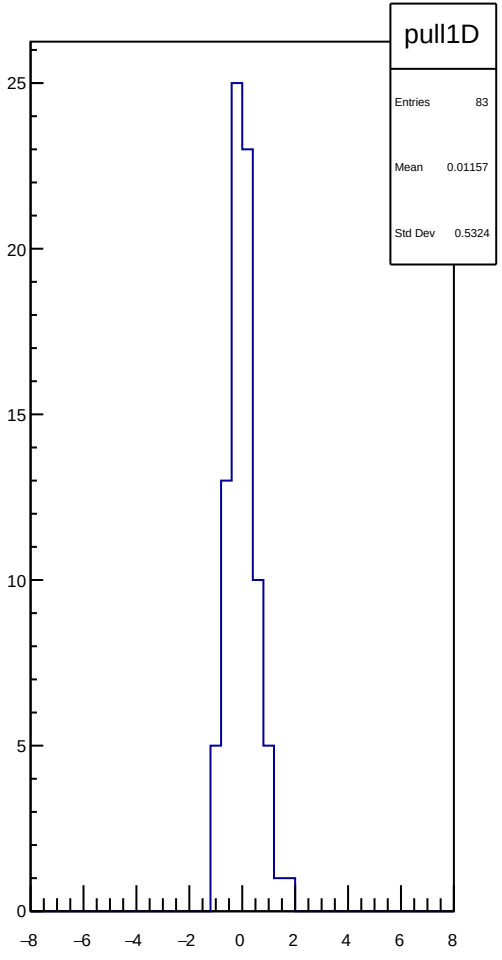

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 23.84 / 82
p0 −72.37 ± 2.217
pull
Entries 83
Mean 279.1
Std Dev 0

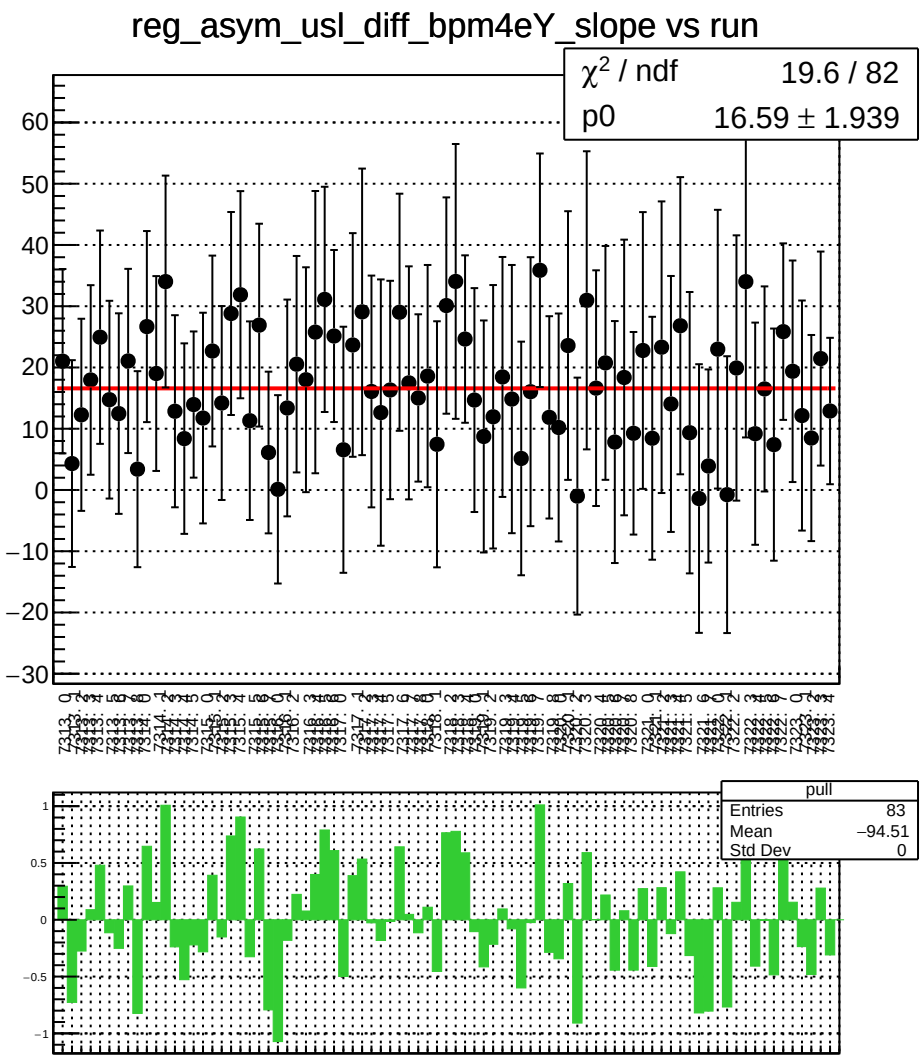

pull1D
Entries 83
Mean −0.009386
Std Dev 0.5358

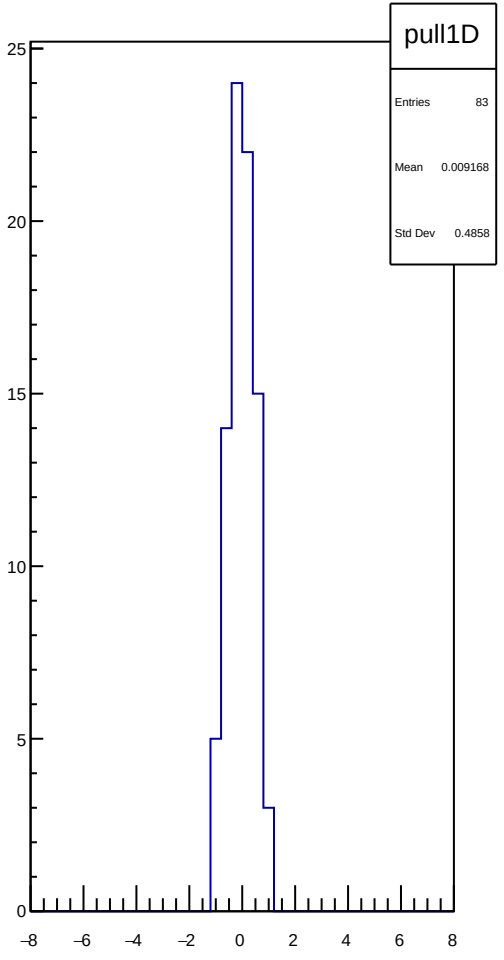

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 19.46 / 82
p0 3.819 ± 1.792
pull
Entries 83
Mean −23.22
Std Dev 0

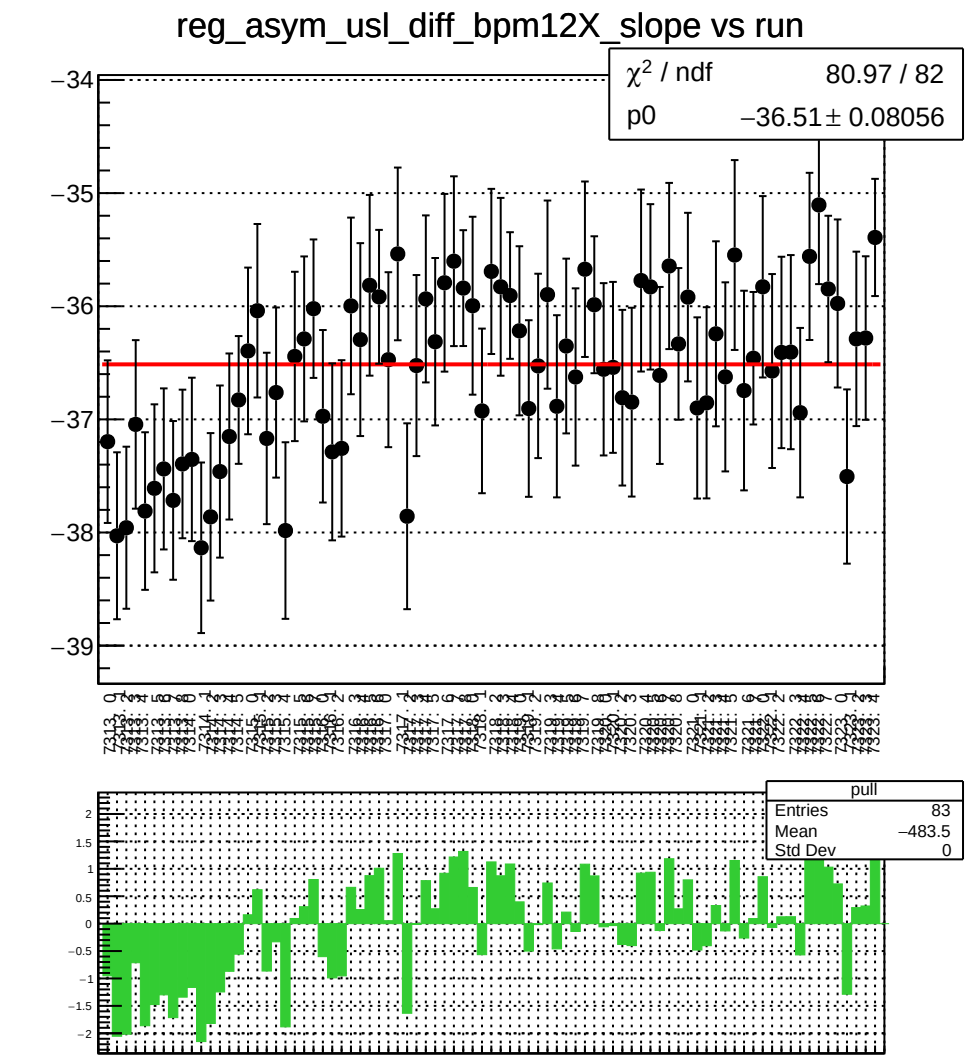

pull1D
Entries 83
Mean −0.01016
Std Dev 0.4841

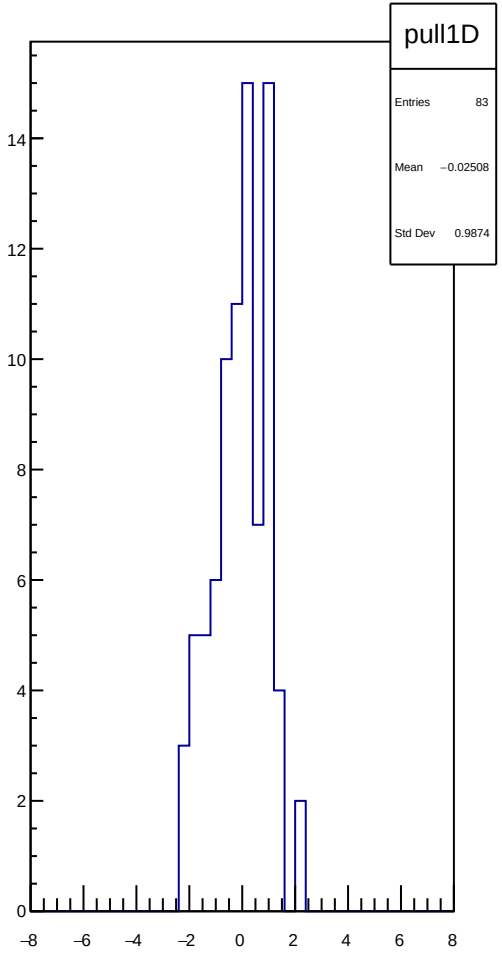

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 23.54 / 82
p0 11.6 ± 2.202
pull
Entries 83
Mean 221.4
Std Dev 0

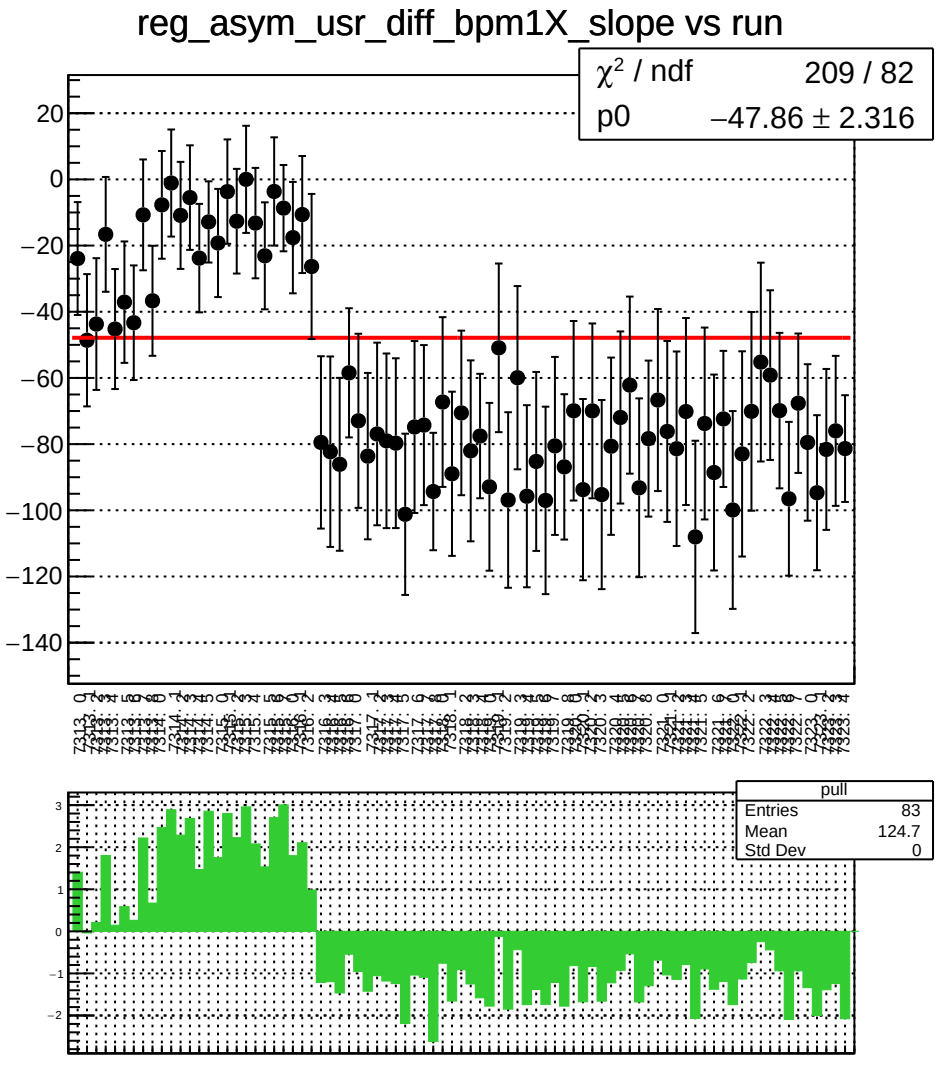

pull1D
Entries 83
Mean 0.01157
Std Dev 0.5324

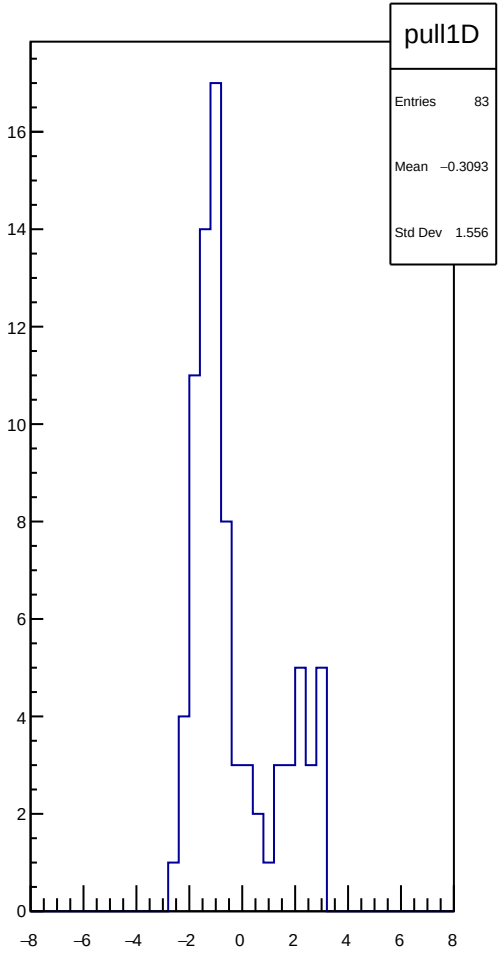

reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 19.6 / 82
p0 16.59 ± 1.939
pull
Entries 83
Mean −94.51
Std Dev 0

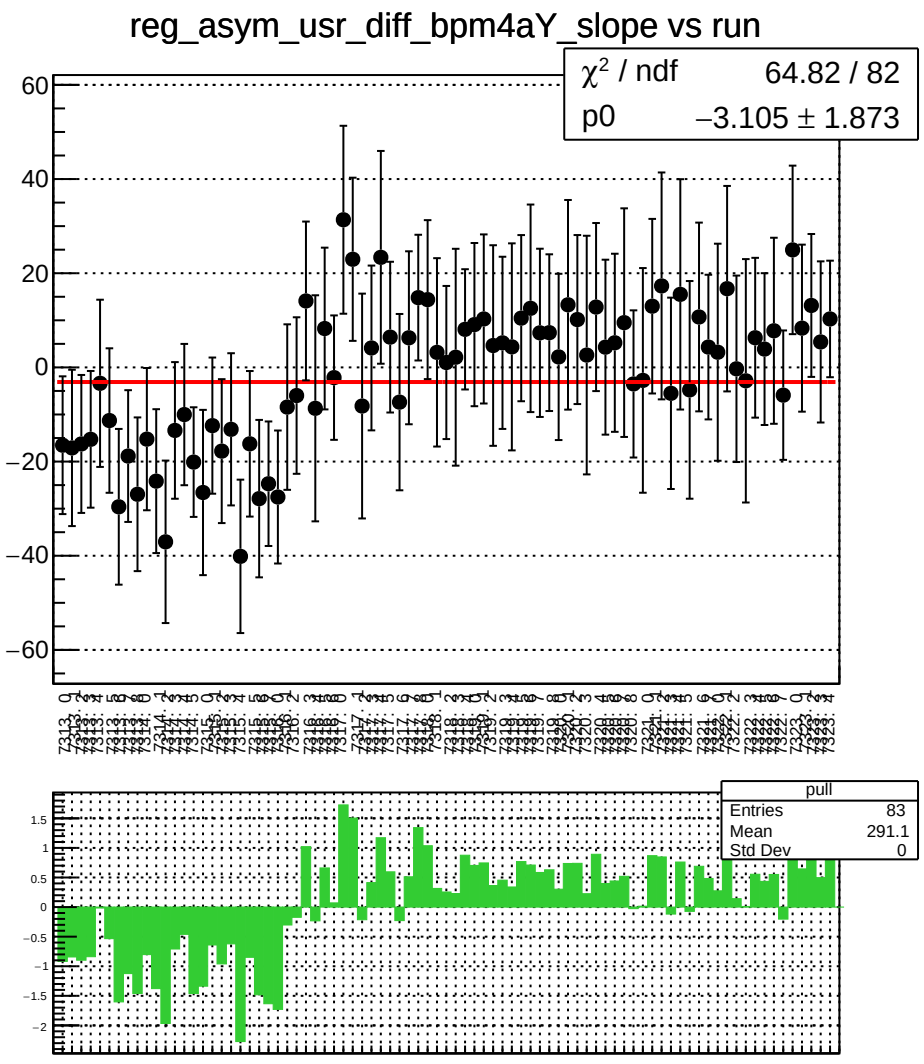

pull1D
Entries 83
Mean 0.009168
Std Dev 0.4858

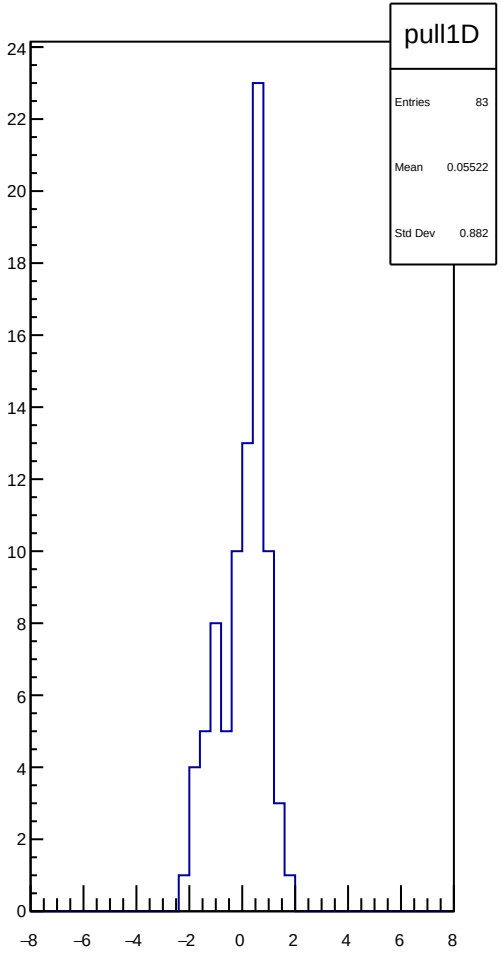

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 80.97 / 82
p0 −36.51 ± 0.08056
pull
Entries 83
Mean −483.5
Std Dev 0

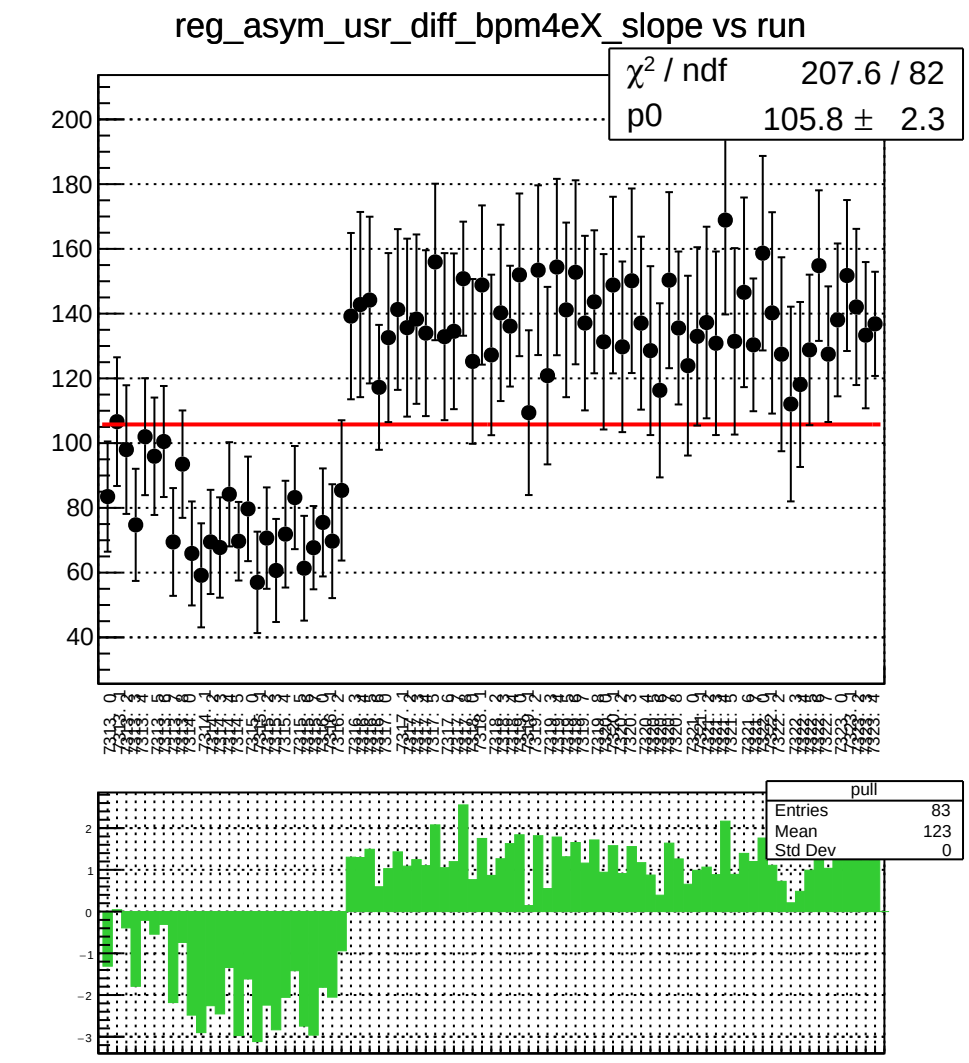

pull1D
Entries 83
Mean −0.02508
Std Dev 0.9874

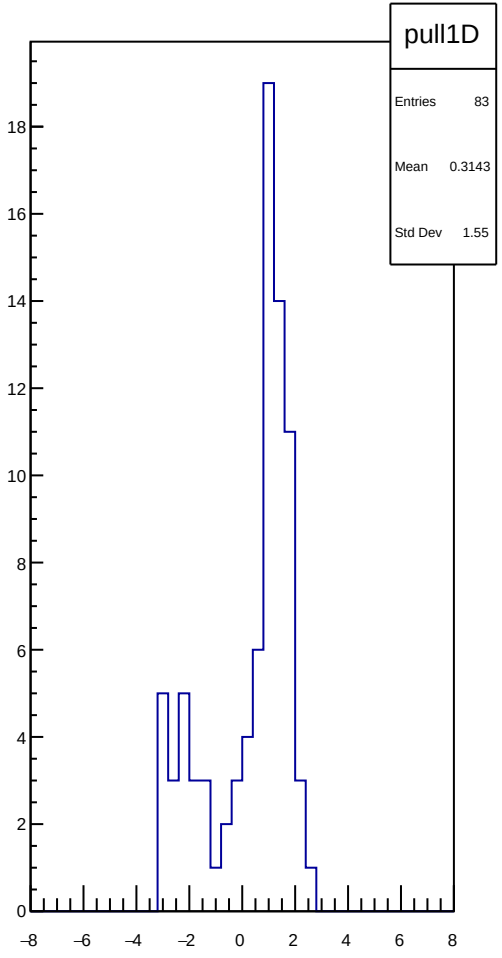

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 209 / 82
p0 −47.86 ± 2.316
pull
Entries 83
Mean 124.7
Std Dev 0

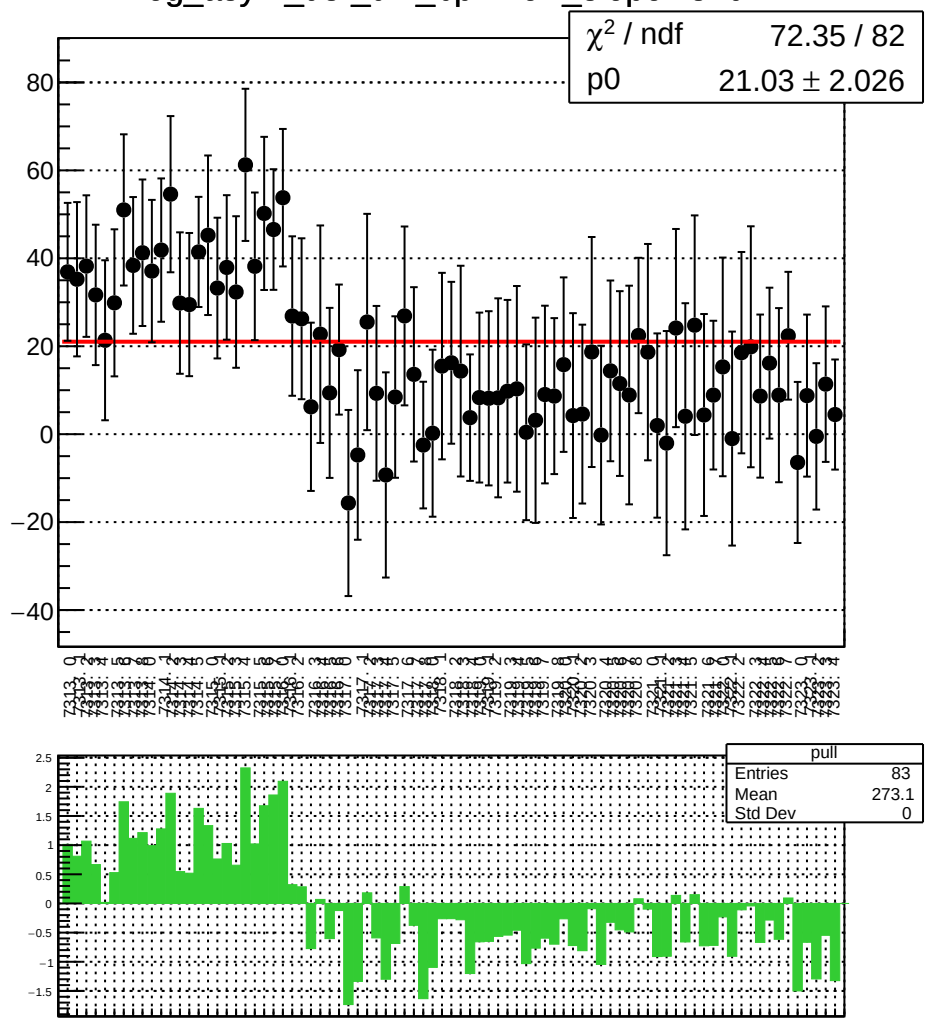

pull1D
Entries 83
Mean −0.3093
Std Dev 1.556

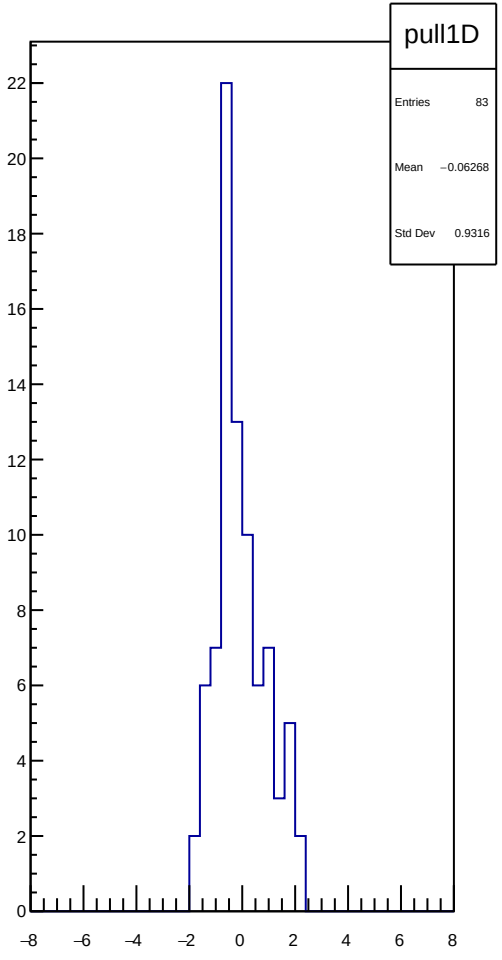

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 64.82 / 82
p0 −3.105 ± 1.873
pull
Entries 83
Mean 291.1
Std Dev 0

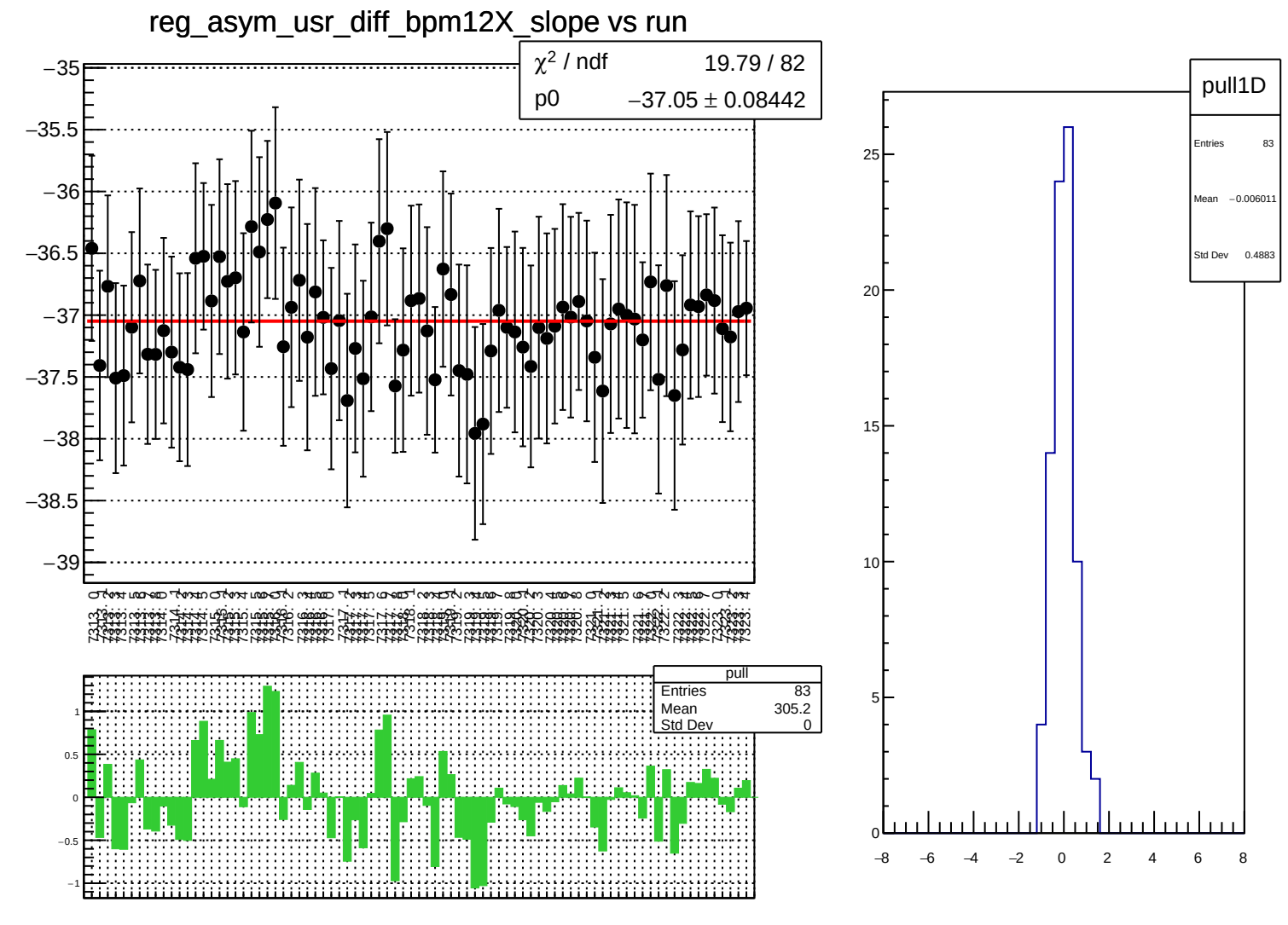

pull1D
Entries 83
Mean 0.05522
Std Dev 0.882

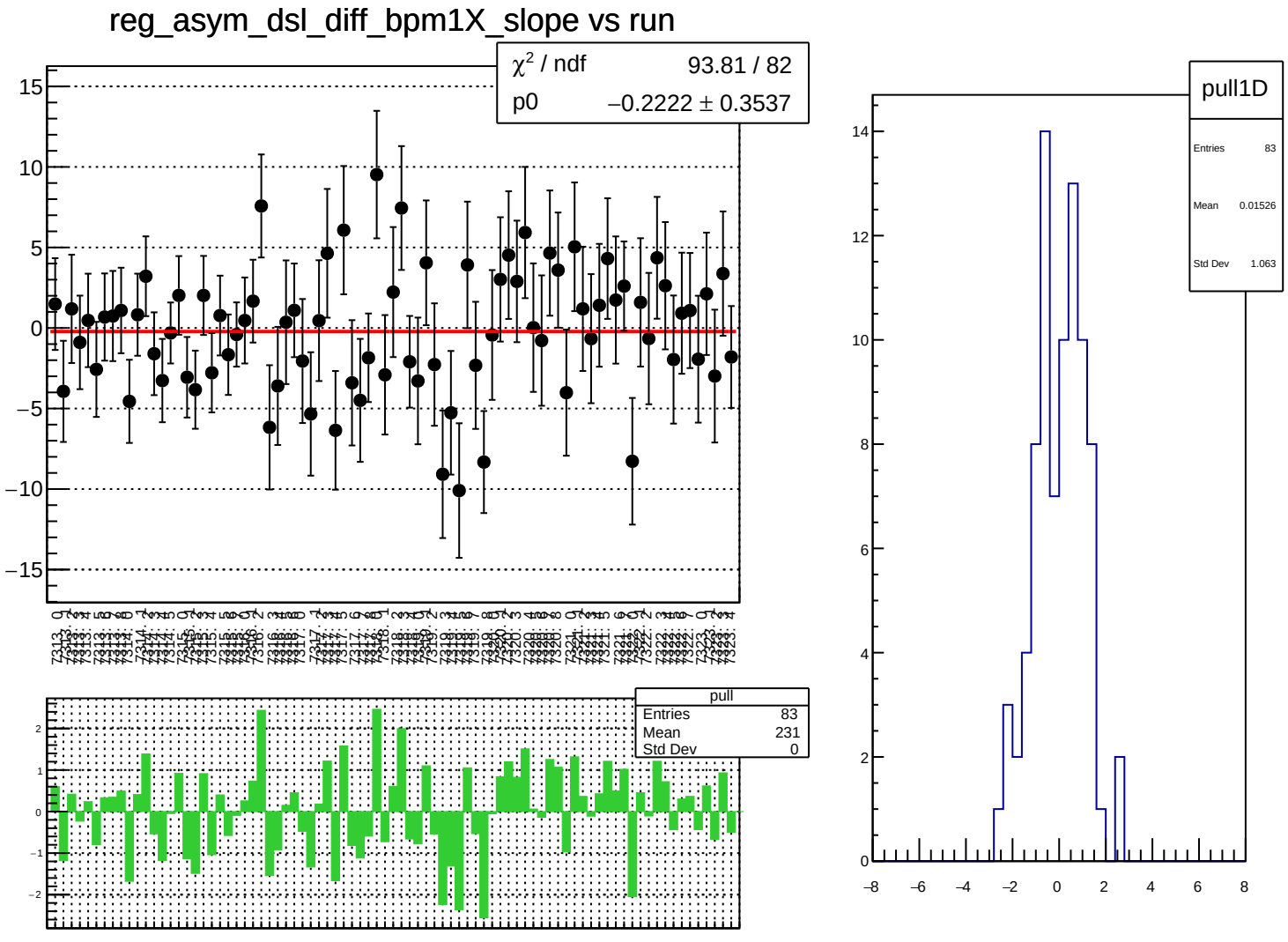

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 207.6 / 82
p0 105.8 ± 2.3
pull
Entries 83
Mean 123
Std Dev 0

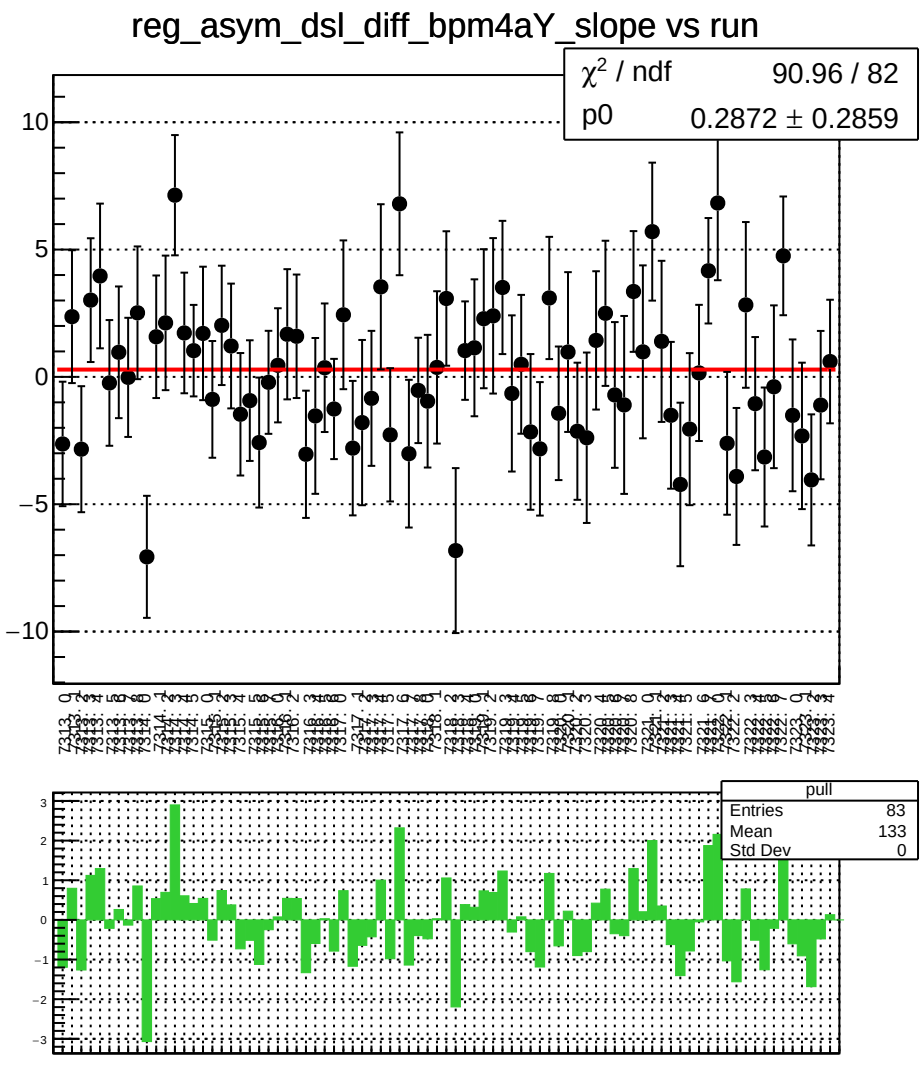

pull1D
Entries 83
Mean 0.3143
Std Dev 1.55

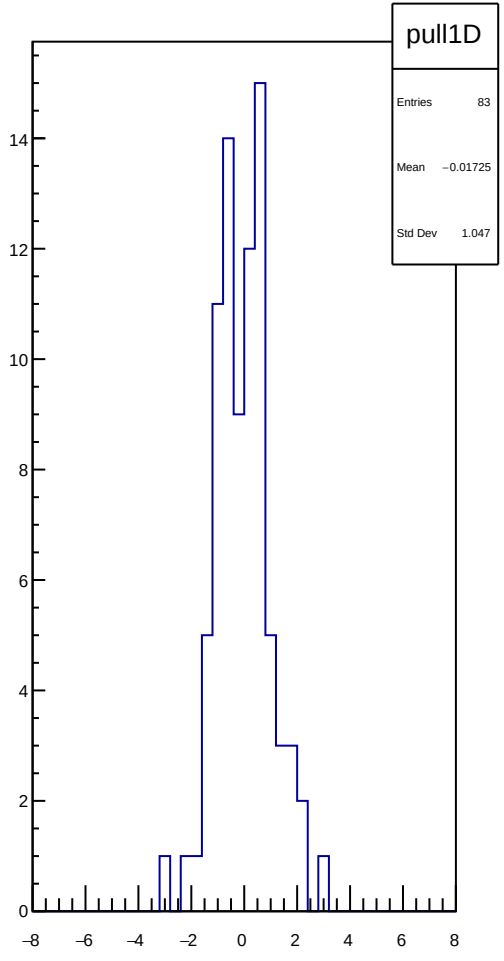

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 72.35 / 82
p0 21.03 ± 2.026
pull
Entries 83
Mean 273.1
Std Dev 0

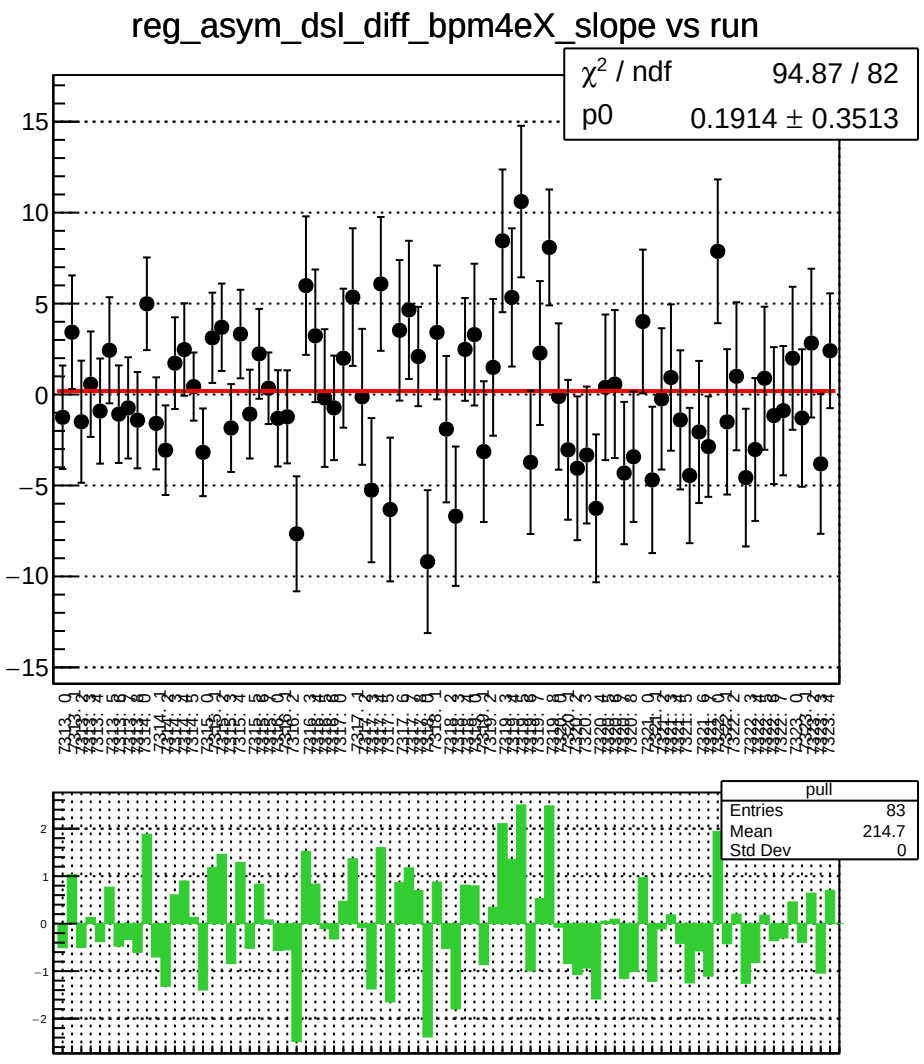

pull1D
Entries 83
Mean −0.06268
Std Dev 0.9316

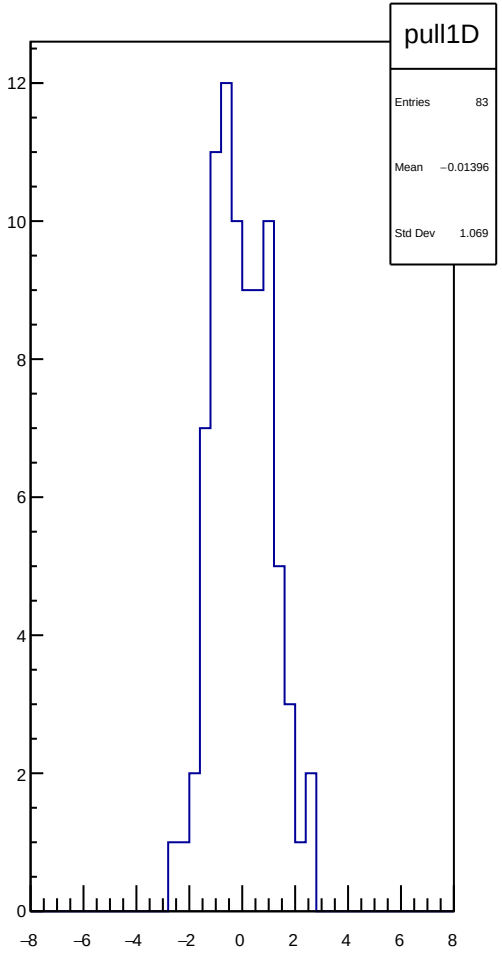

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 19.79 / 82
p0 −37.05 ± 0.08442
pull
Entries 83
Mean 305.2
Std Dev 0
pull1D
Entries 83
Mean −0.006011
Std Dev 0.4883

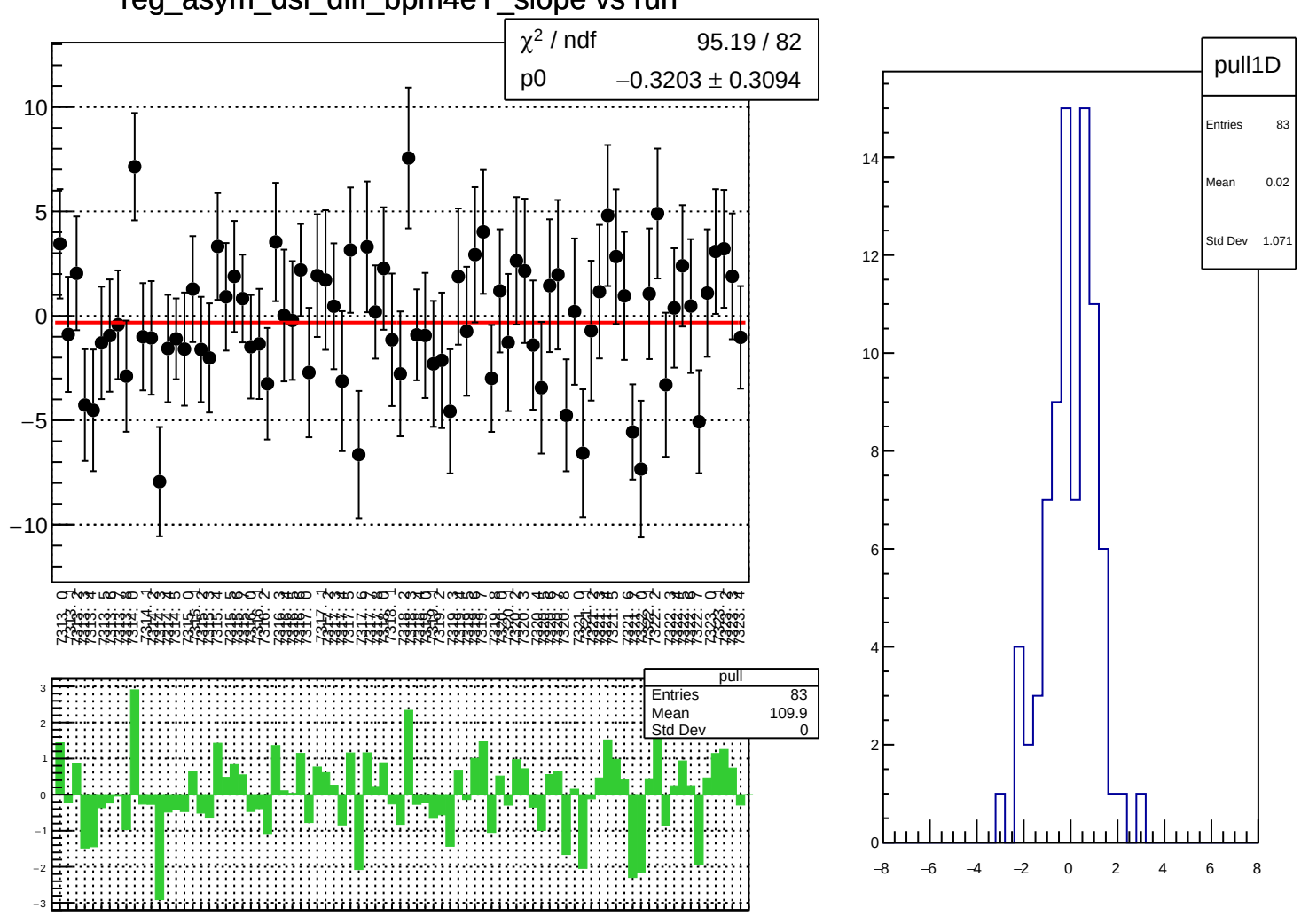

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 93.81 / 82
p0 −0.2222 ± 0.3537
pull
Entries 83
Mean 231
Std Dev 0
pull1D
Entries 83
Mean 0.01526
Std Dev 1.063

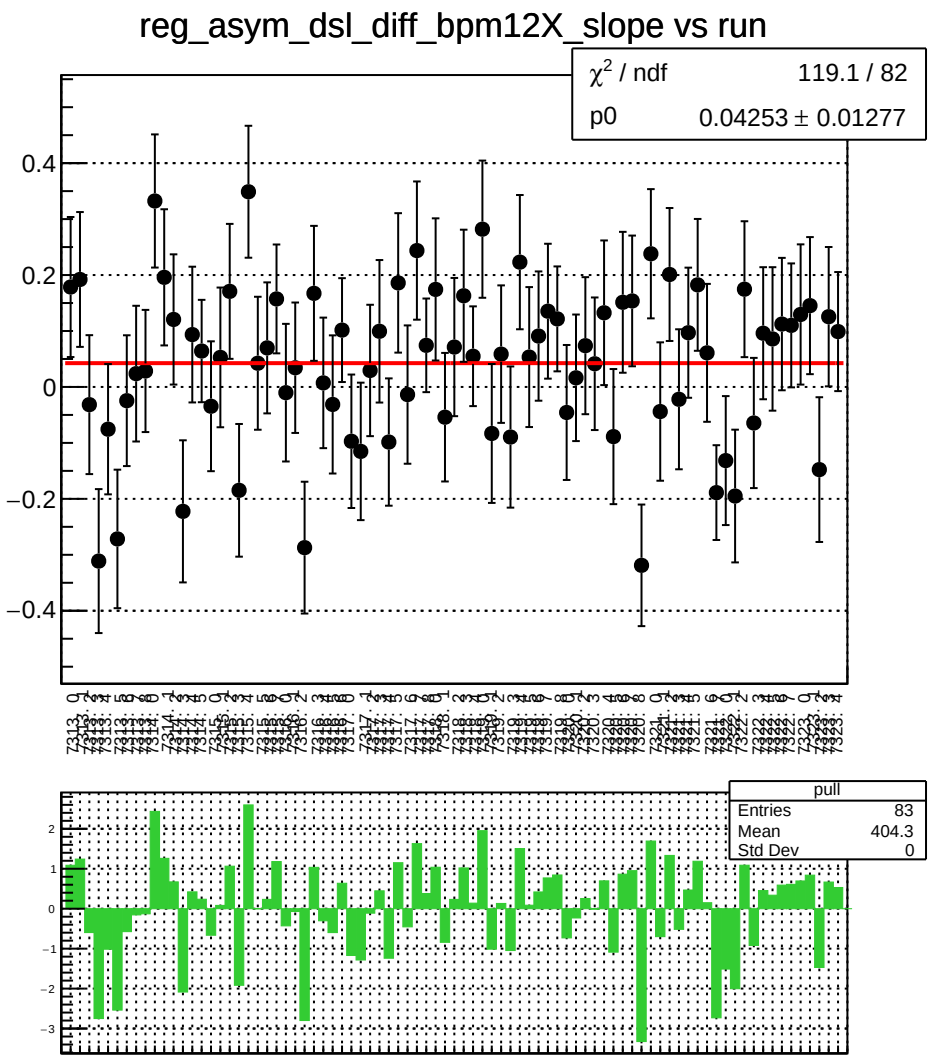

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 90.96 / 82
p0 0.2872 ± 0.2859
pull
Entries 83
Mean 133
Std Dev 0

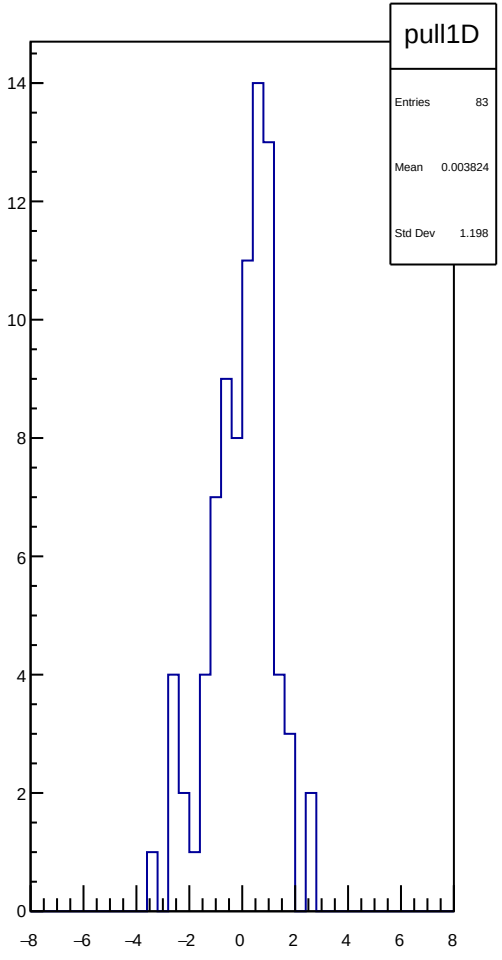

pull1D
Entries 83
Mean −0.01725
Std Dev 1.047

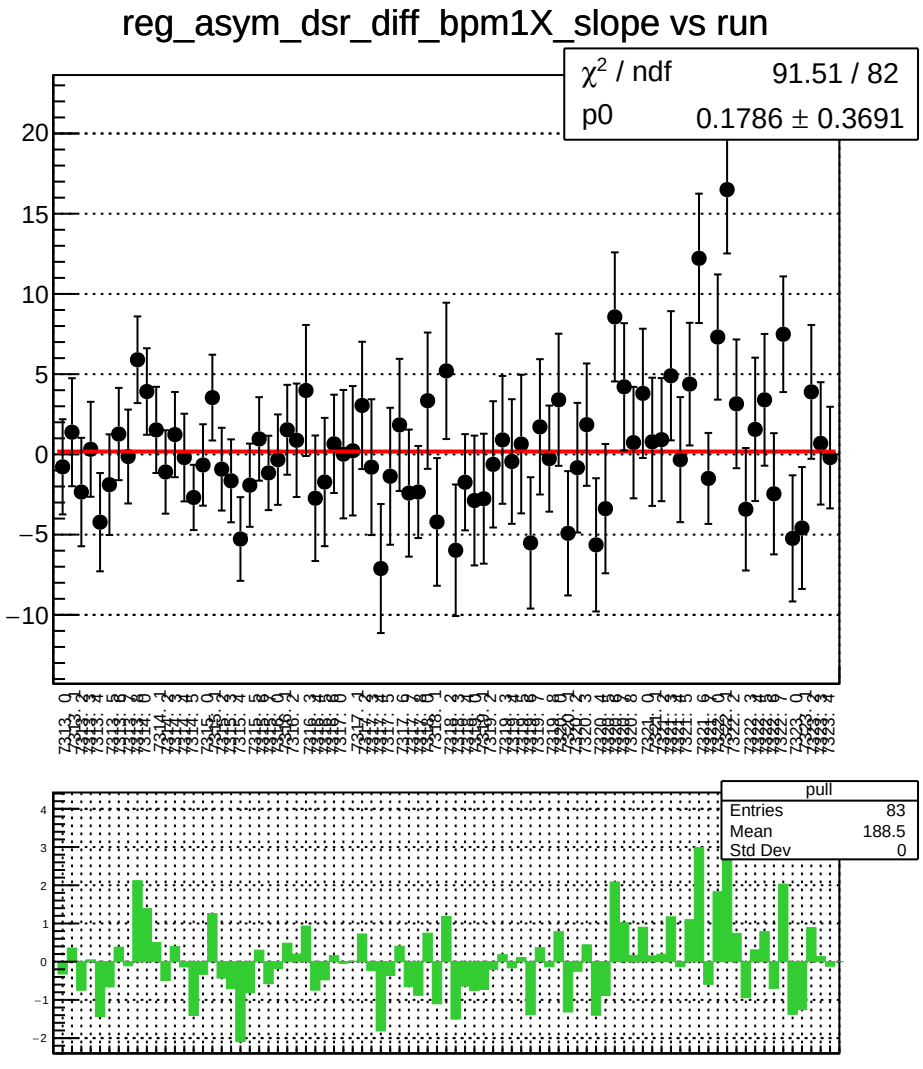

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 94.87 / 82
p0 0.1914 ± 0.3513
pull
Entries 83
Mean 214.7
Std Dev 0

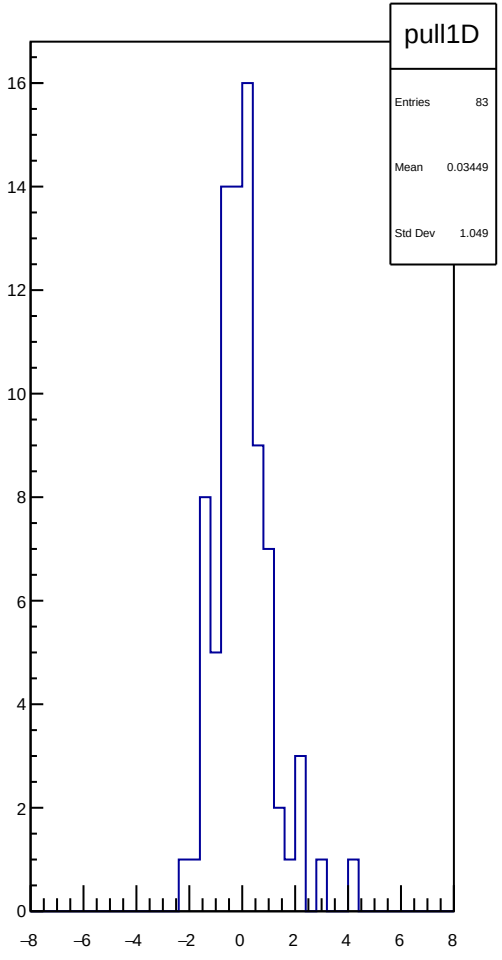

pull1D
Entries 83
Mean −0.01396
Std Dev 1.069

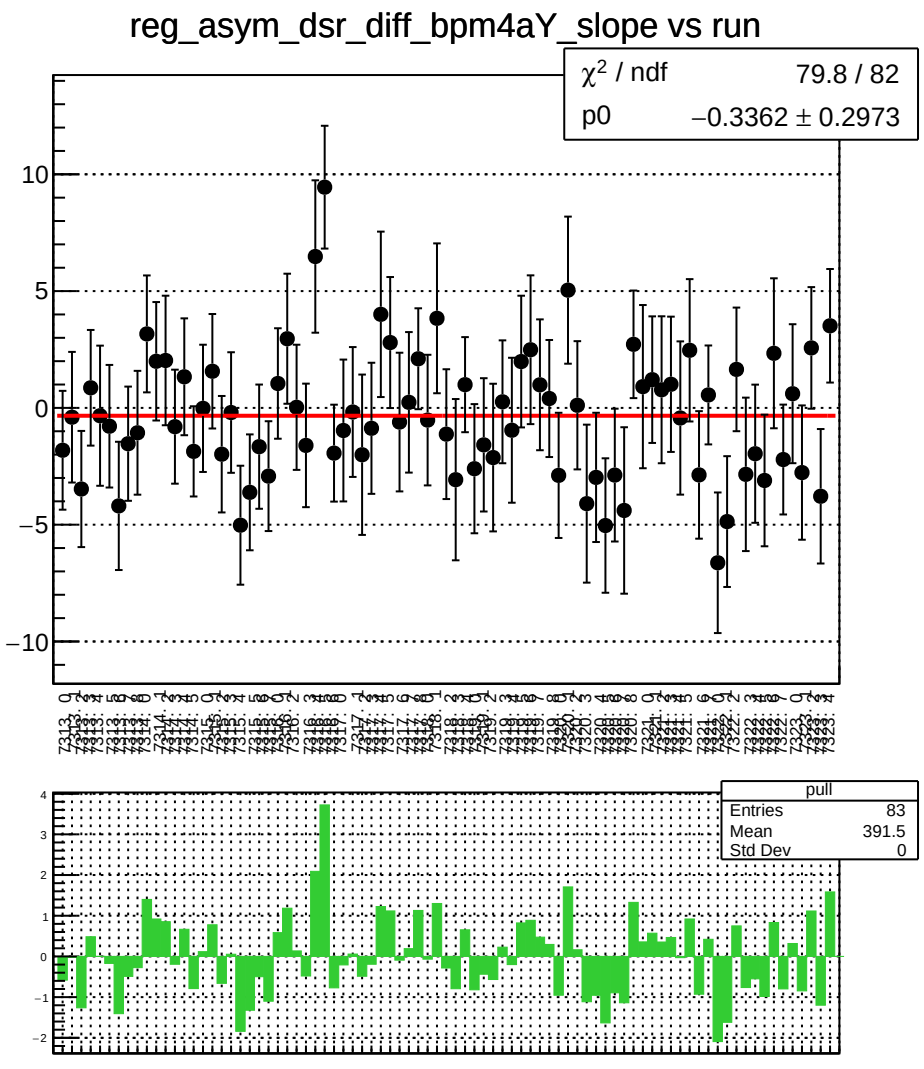

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 95.19 / 82
p0 −0.3203 ± 0.3094
pull
Entries 83
Mean 109.9
Std Dev 0
pull1D
Entries 83
Mean 0.02
Std Dev 1.071

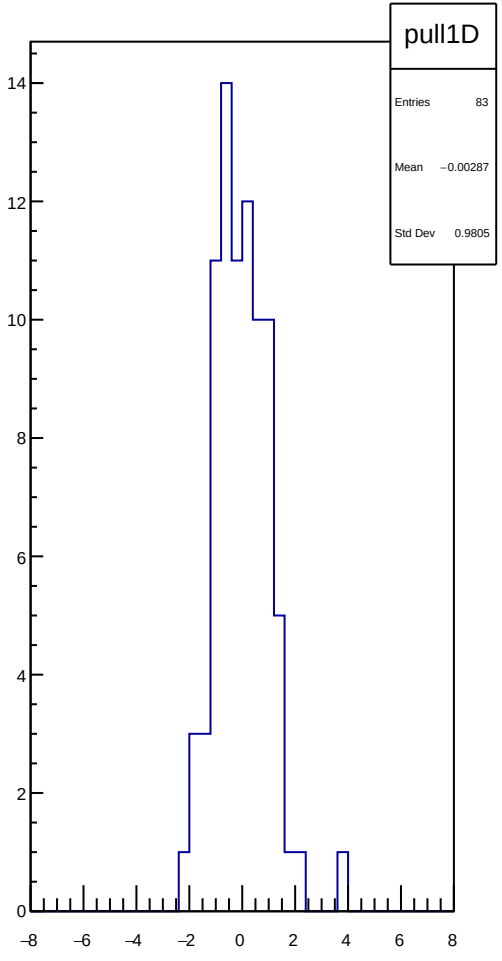

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 119.1 / 82
p0 0.04253 ± 0.01277
pull
Entries 83
Mean 404.3
Std Dev 0

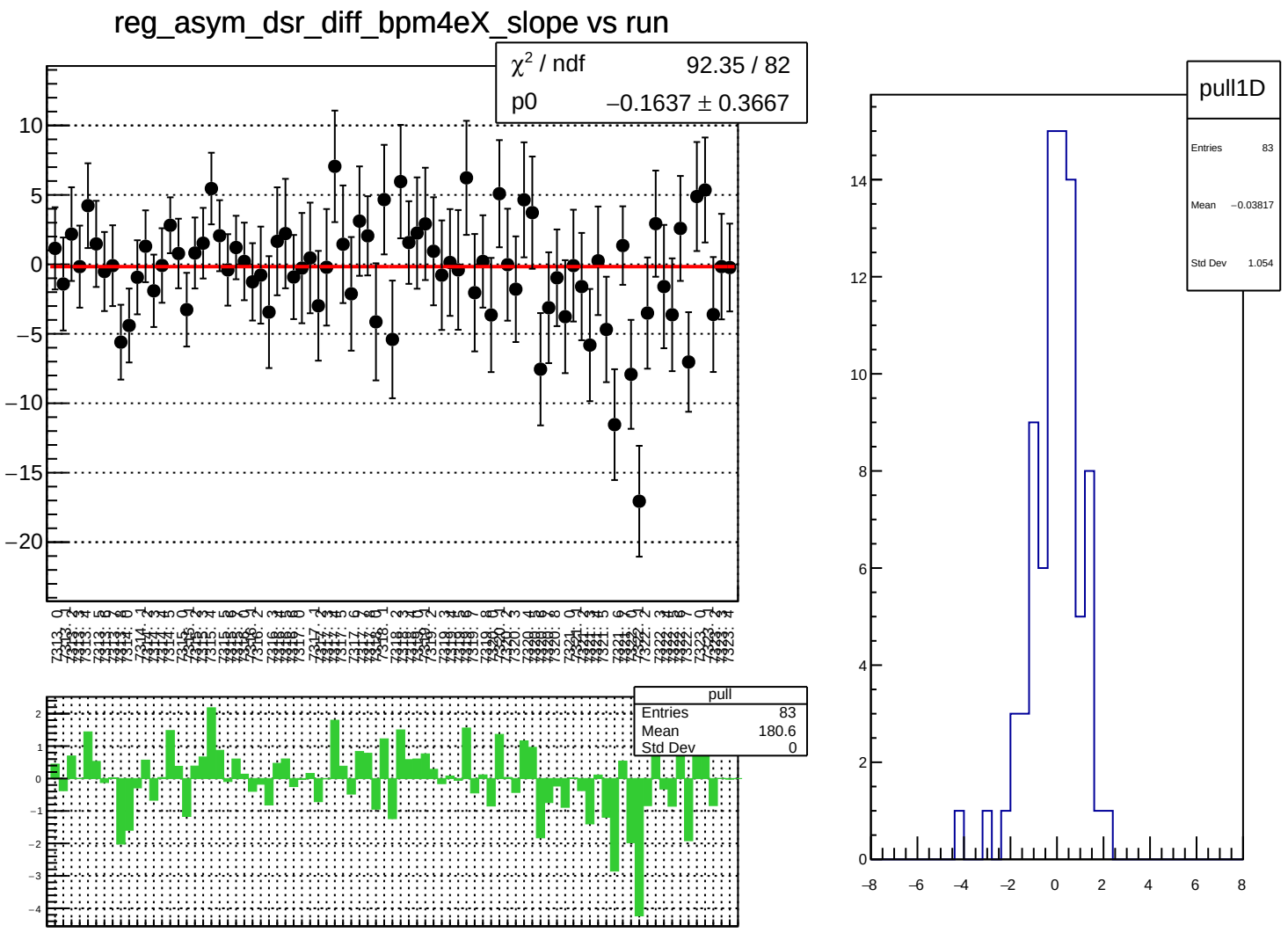

pull1D
Entries 83
Mean 0.003824
Std Dev 1.198

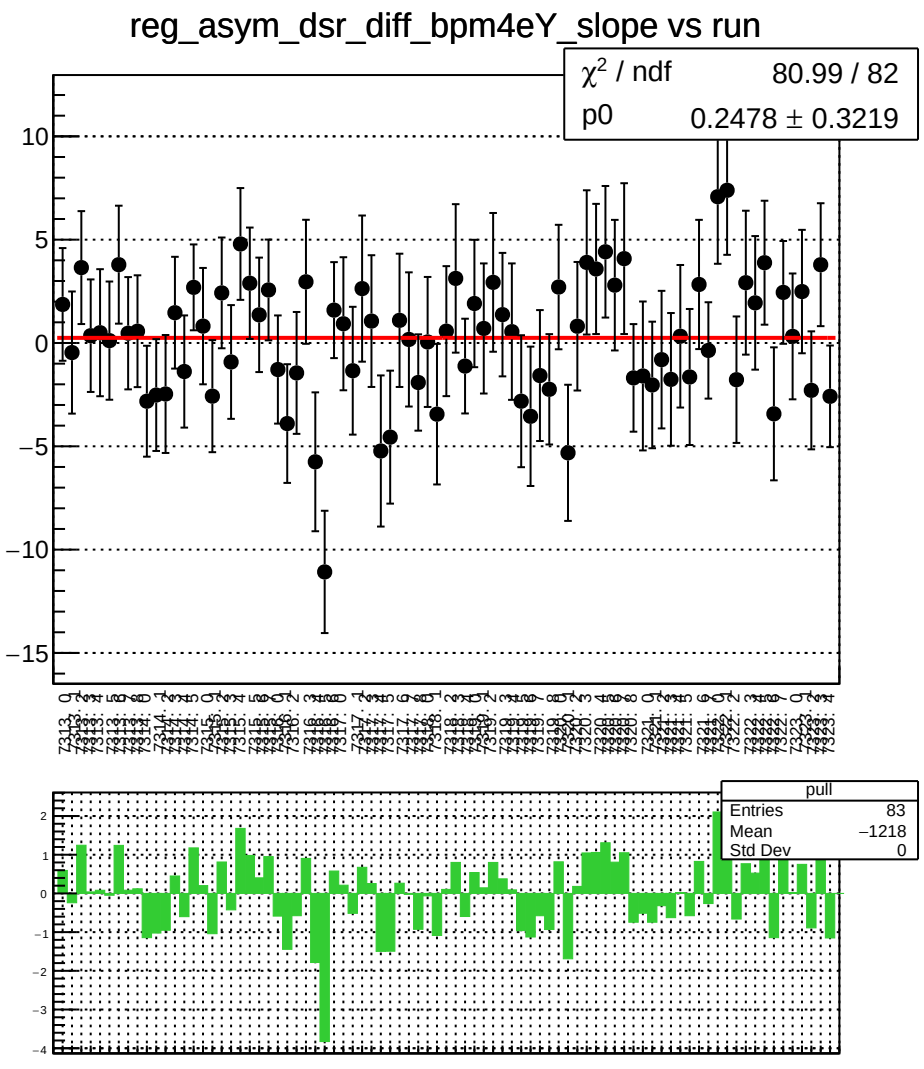

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 91.51 / 82
p0 0.1786 ± 0.3691
pull
Entries 83
Mean 188.5
Std Dev 0

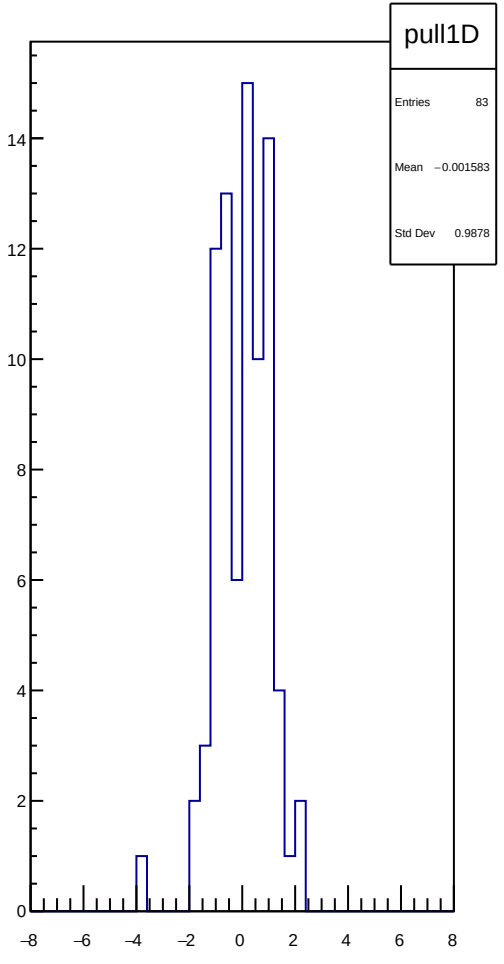

pull1D
Entries 83
Mean 0.03449
Std Dev 1.049

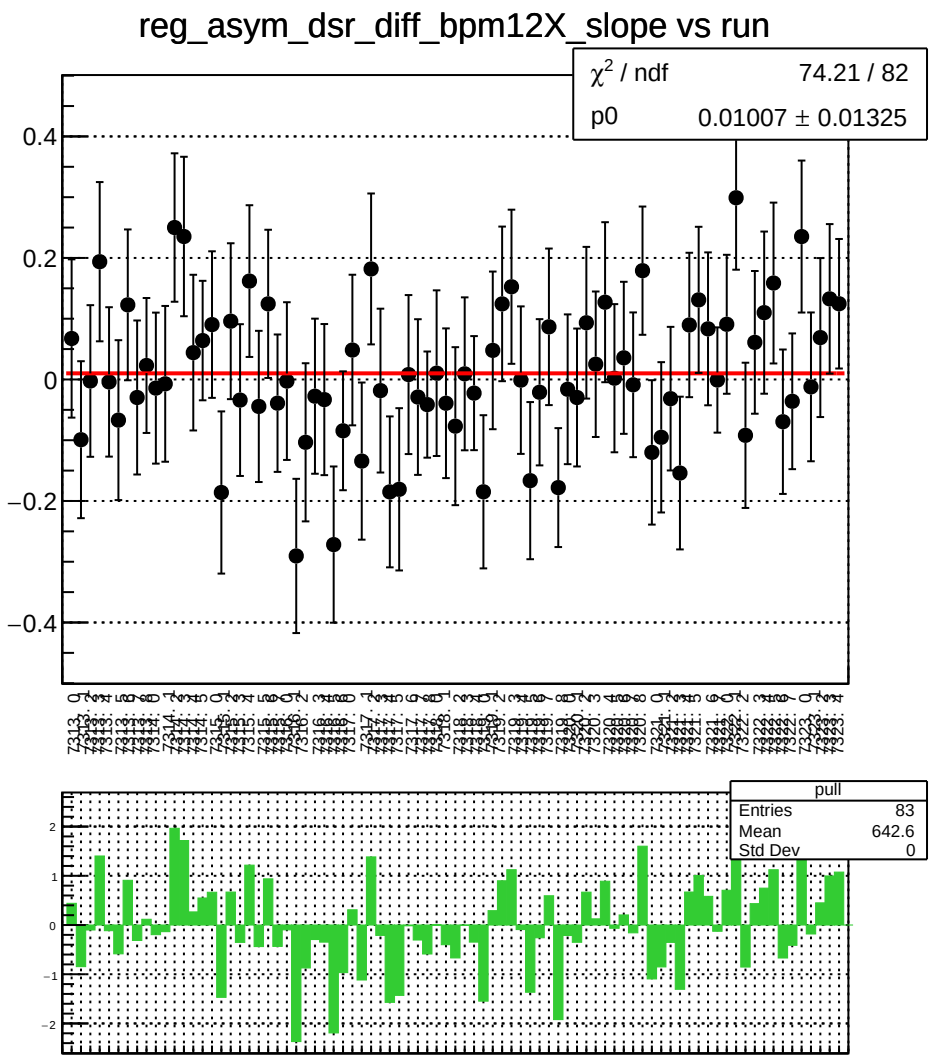

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 79.8 / 82
p0 −0.3362 ± 0.2973
pull
Entries 83
Mean 391.5
Std Dev 0

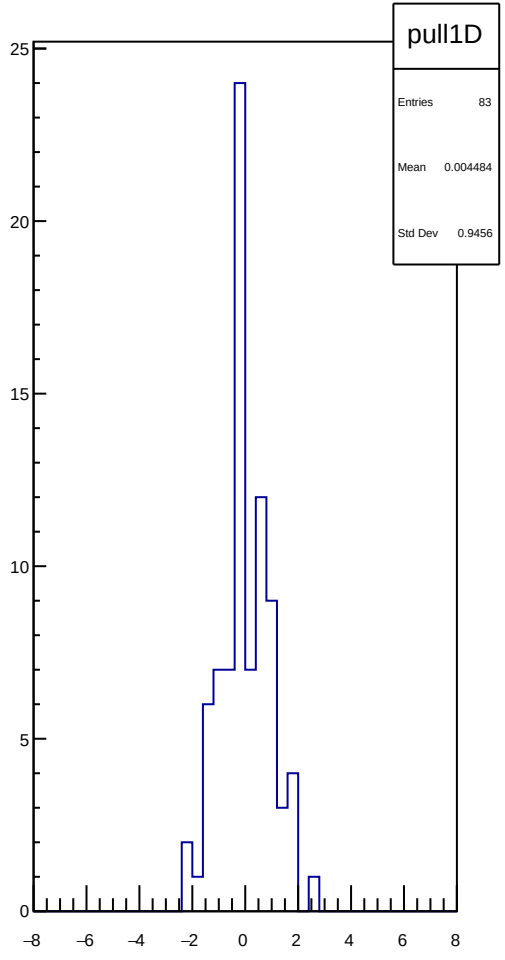

pull1D
Entries 83
Mean −0.00287
Std Dev 0.9805

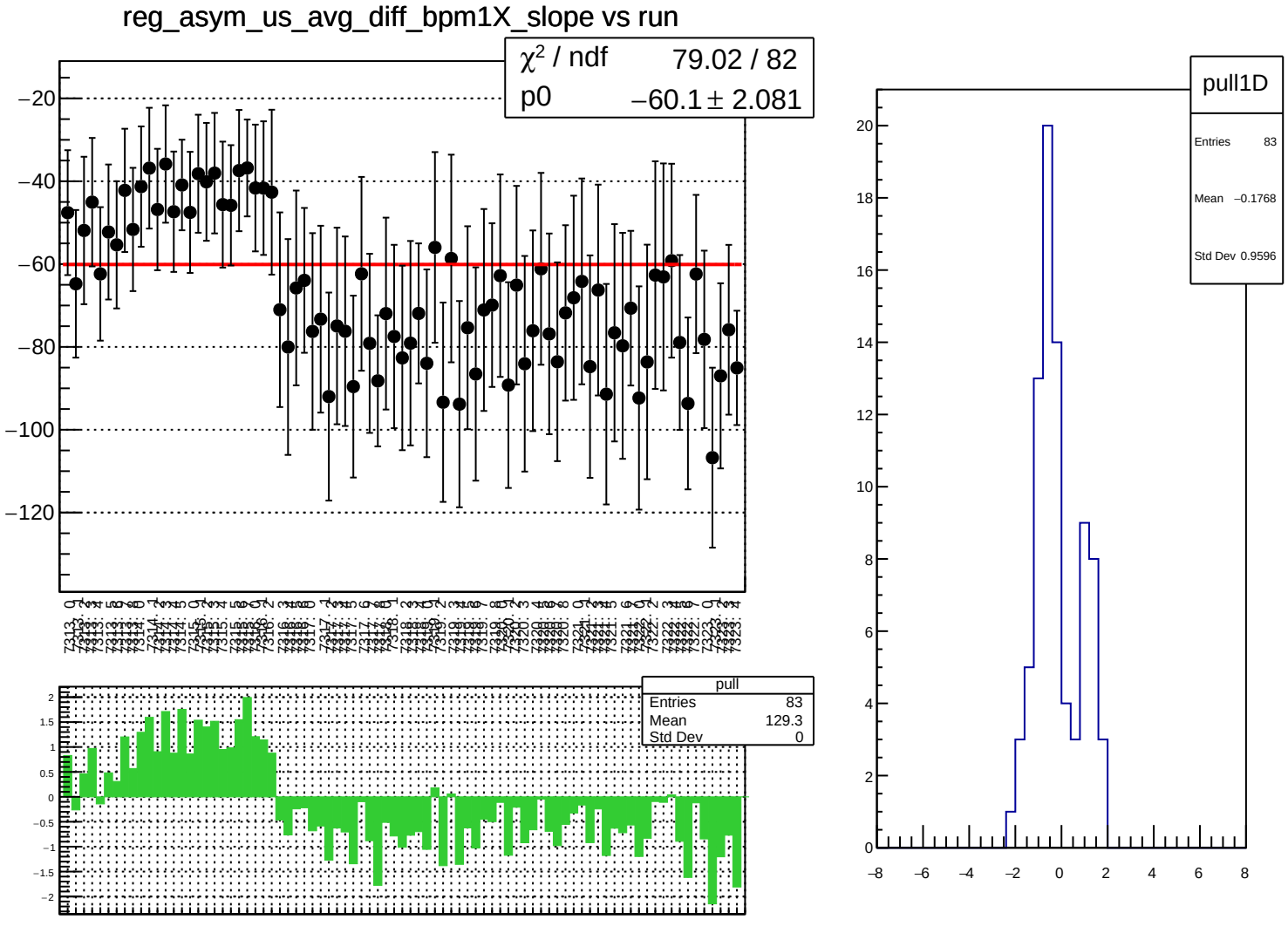

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 92.35 / 82
p0 −0.1637 ± 0.3667
pull
Entries 83
Mean 180.6
Std Dev 0
pull1D
Entries 83
Mean −0.03817
Std Dev 1.054

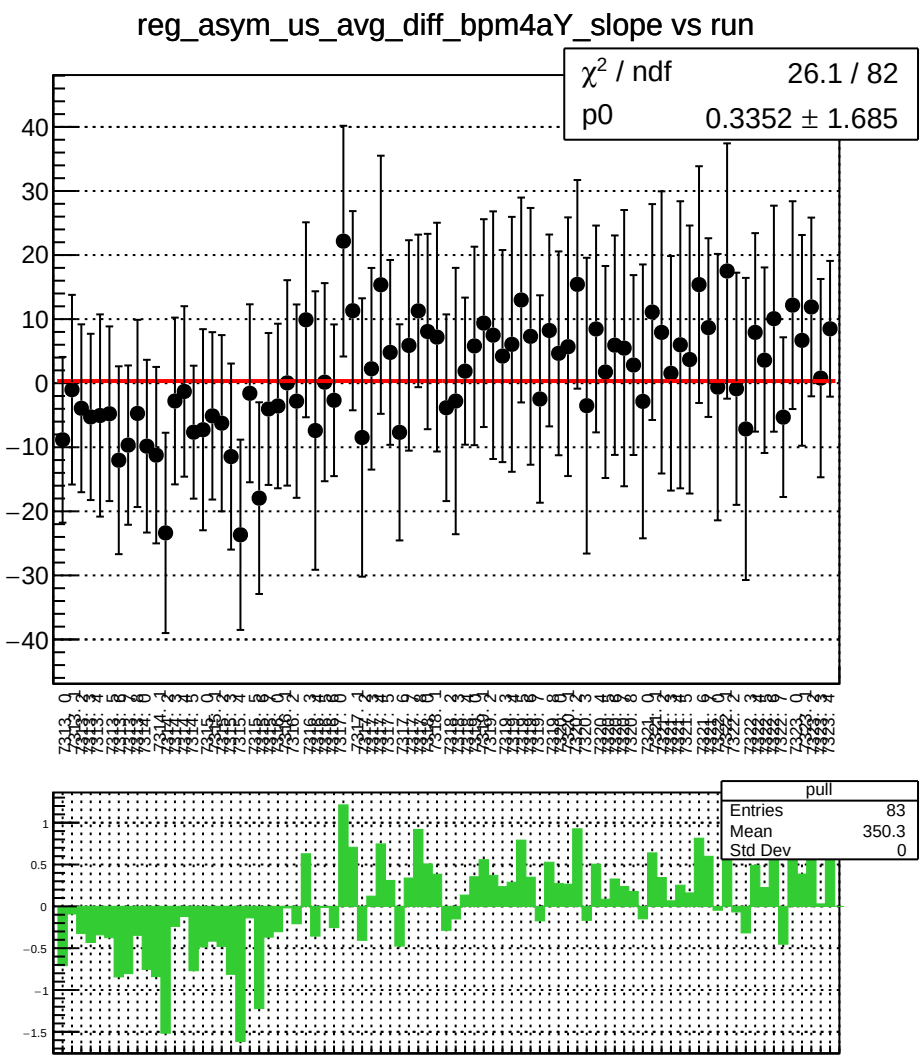

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 80.99 / 82
p0 0.2478 ± 0.3219
pull
Entries 83
Mean −1218
Std Dev 0

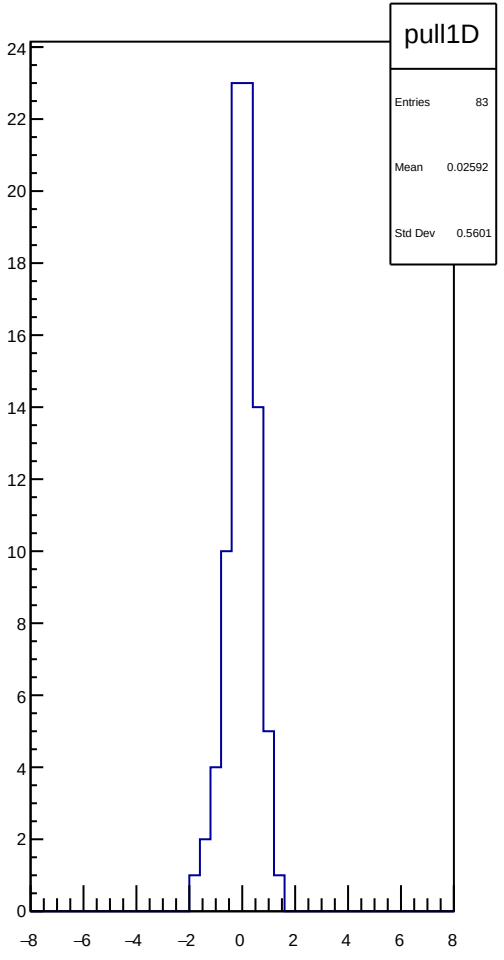

pull1D
Entries 83
Mean −0.001583
Std Dev 0.9878

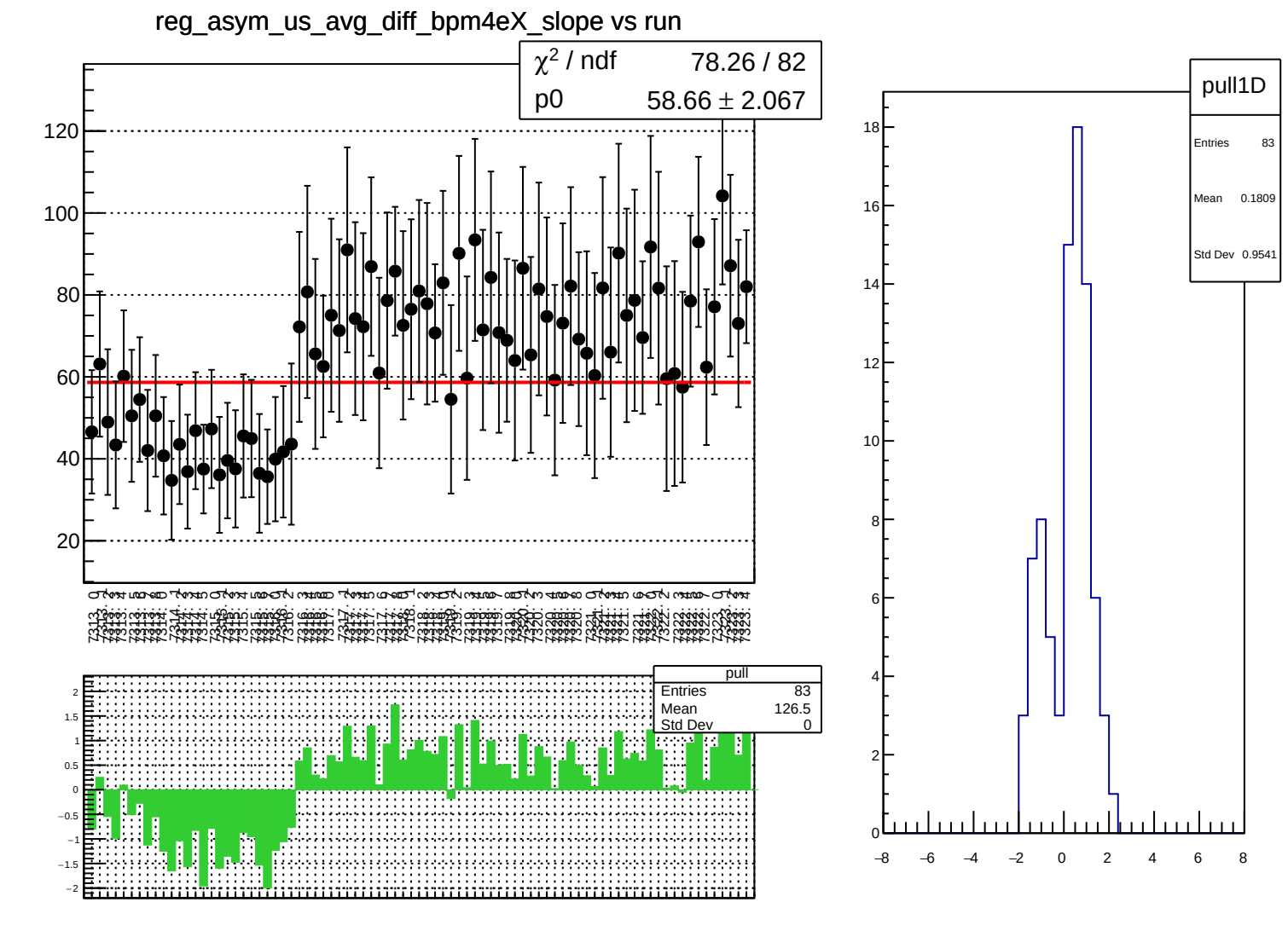

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 74.21 / 82
p0 0.01007 ± 0.01325
0.4
0.2
0
−0.2
−0.4
pull
Entries 83
Mean 642.6
Std Dev 0
2
1
0
−1
−2

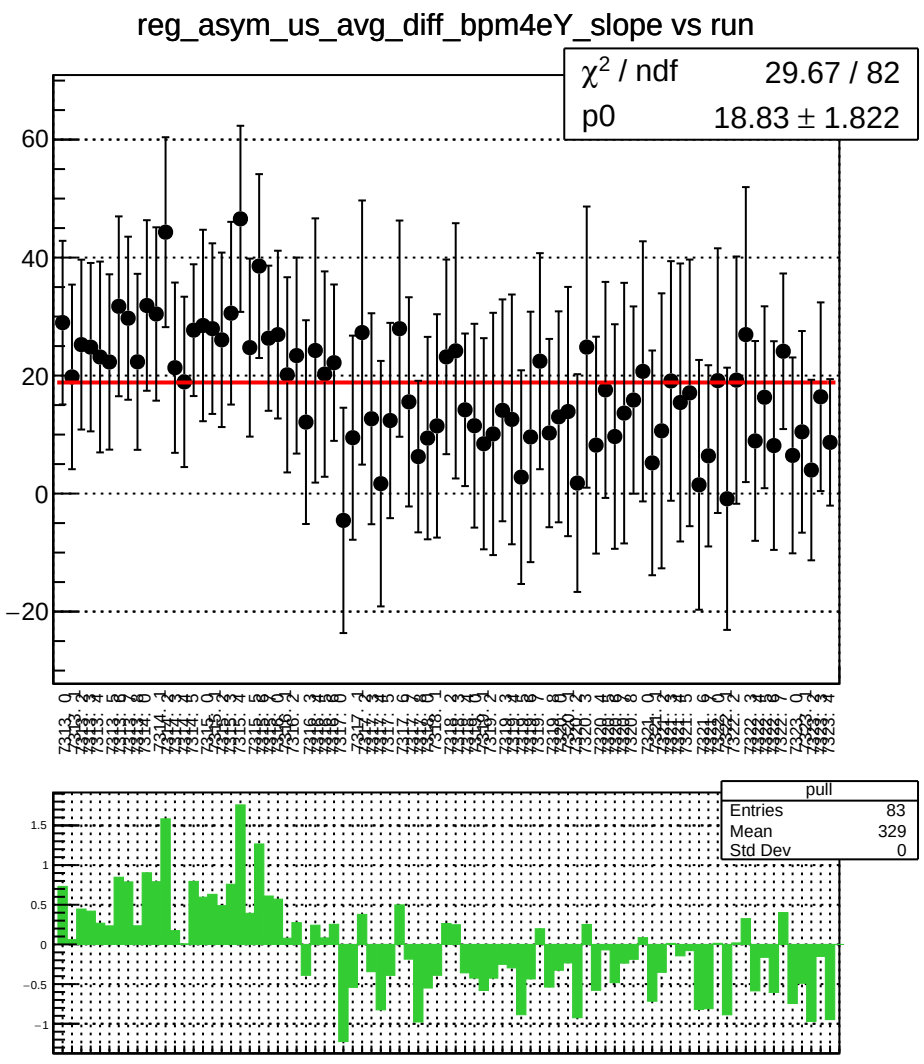

pull1D
Entries 83
Mean 0.004484
Std Dev 0.9456
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

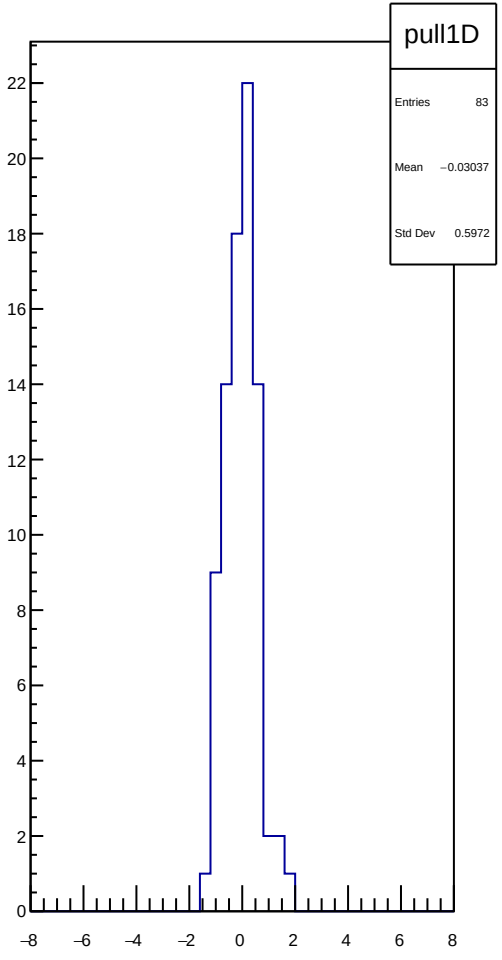

reg_asym_us_avg_diff_bpm1X_slope vs run
χ^2 / ndf 79.02 / 82
p0 −60.1 ± 2.081
−20
−40
−60
−80
−100
−120
pull
Entries 83
Mean 129.3
Std Dev 0
pull1D
Entries 83
Mean −0.1768
Std Dev 0.9596

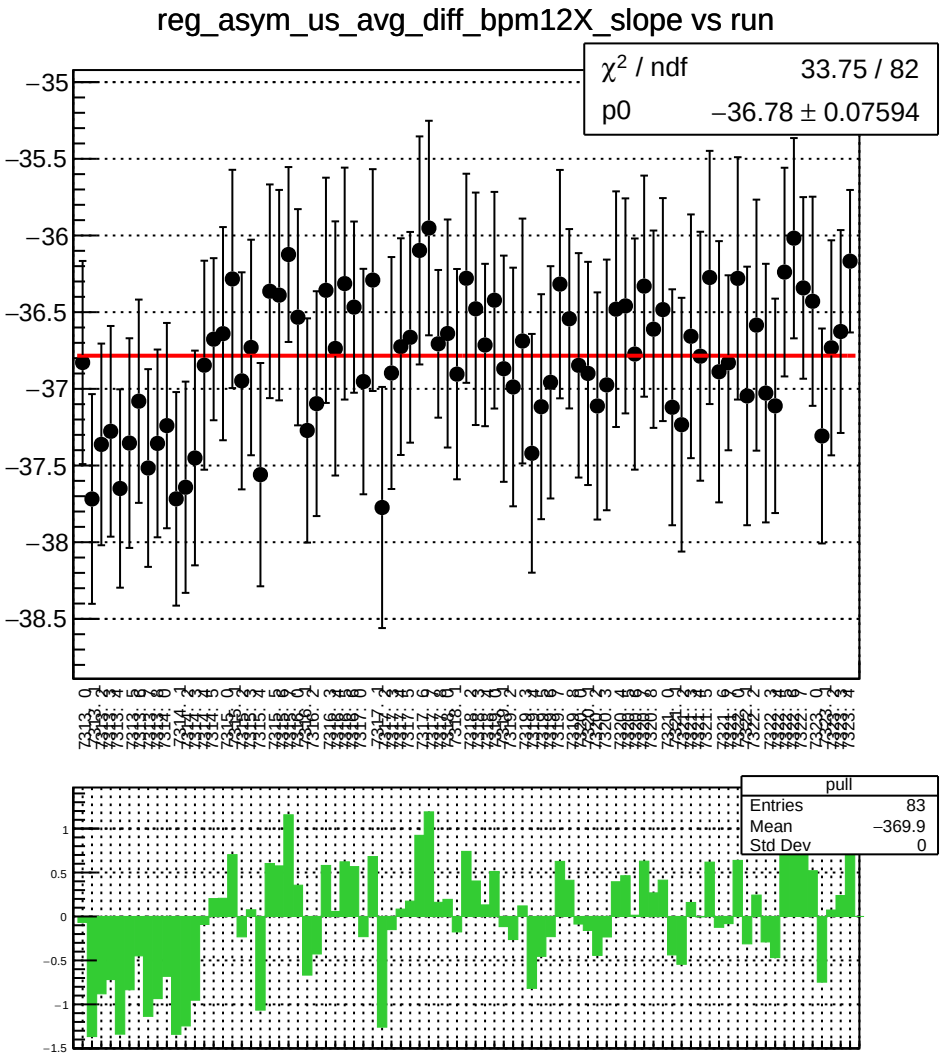

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.1 / 82
p0 0.3352 ± 1.685
pull
Entries 83
Mean 350.3
Std Dev 0

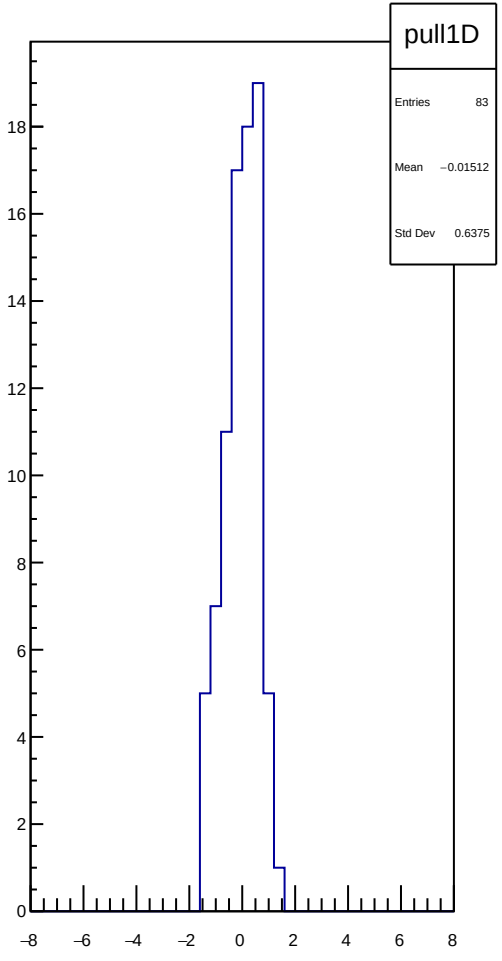

pull1D
Entries 83
Mean 0.02592
Std Dev 0.5601

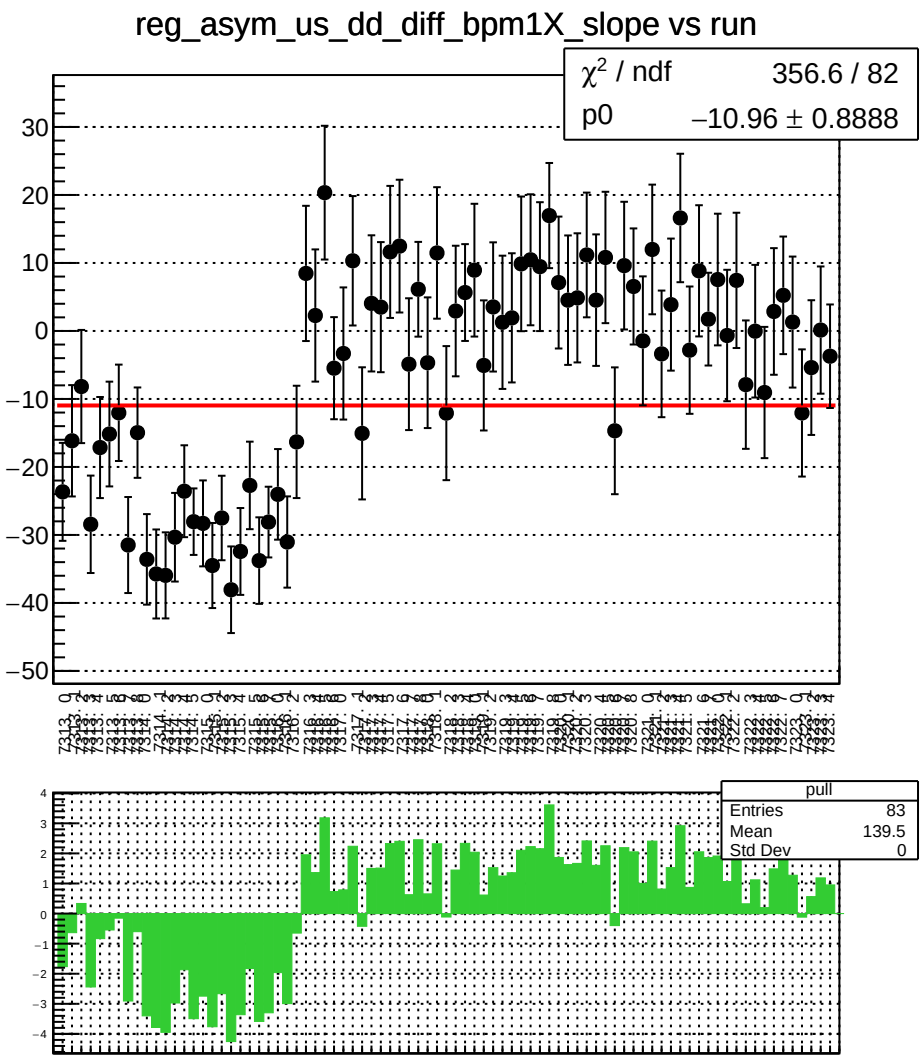

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.26 / 82
p0 58.66 ± 2.067
pull
Entries 83
Mean 126.5
Std Dev 0
pull1D
Entries 83
Mean 0.1809
Std Dev 0.9541

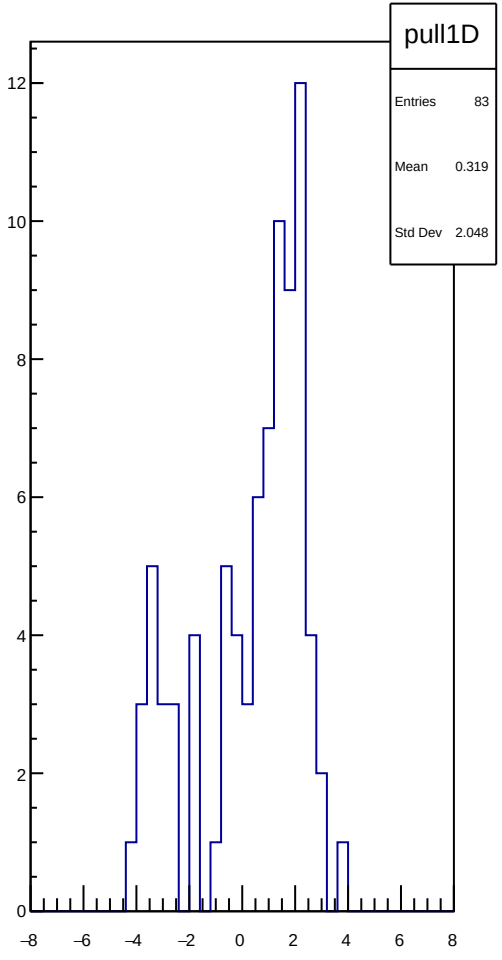

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.67 / 82
p0 18.83 ± 1.822
pull
Entries 83
Mean 329
Std Dev 0

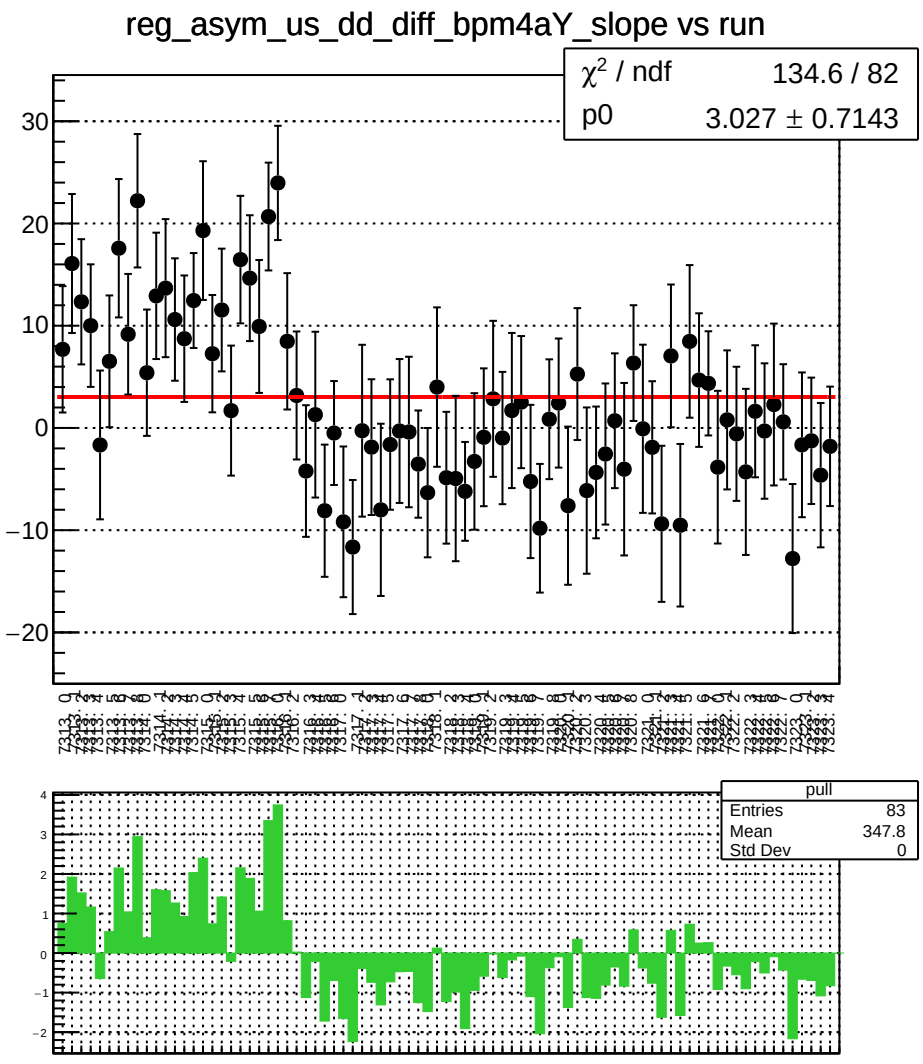

pull1D
Entries 83
Mean −0.03037
Std Dev 0.5972

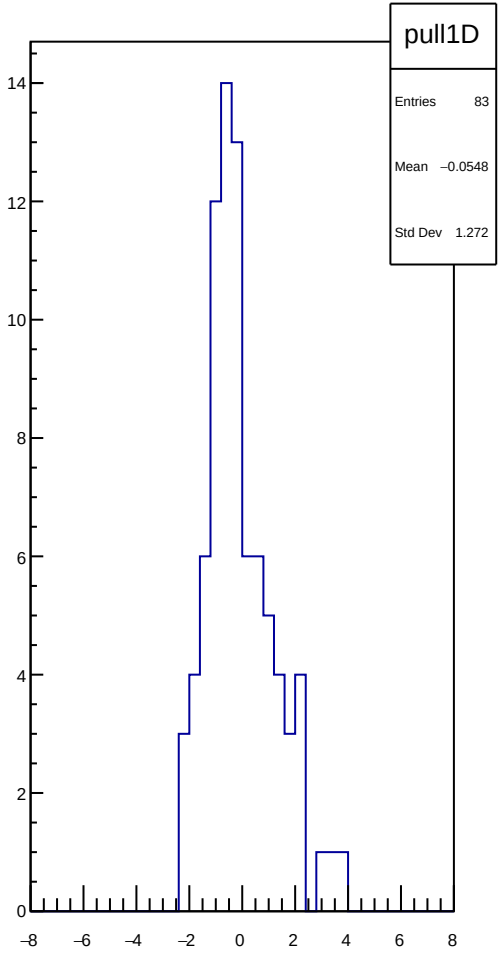

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 33.75 / 82
p0 −36.78 ± 0.07594
pull
Entries 83
Mean −369.9
Std Dev 0

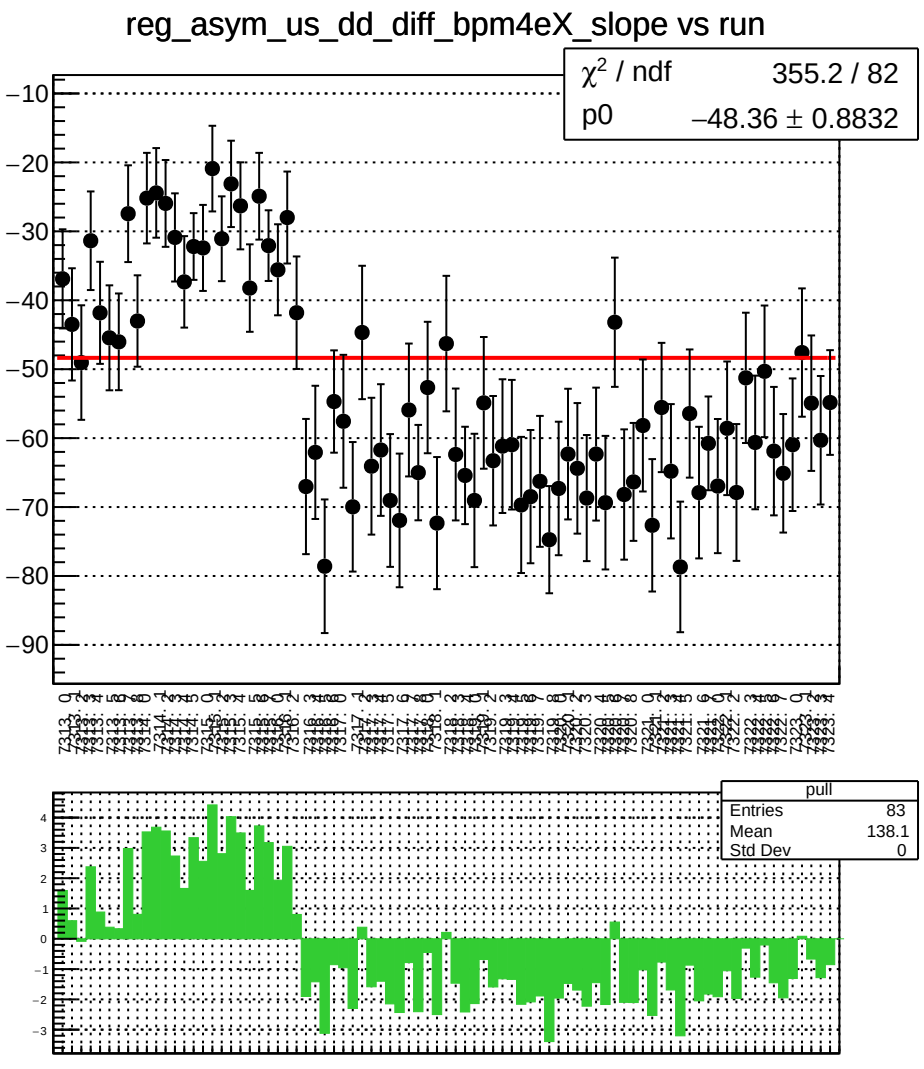

pull1D
Entries 83
Mean −0.01512
Std Dev 0.6375

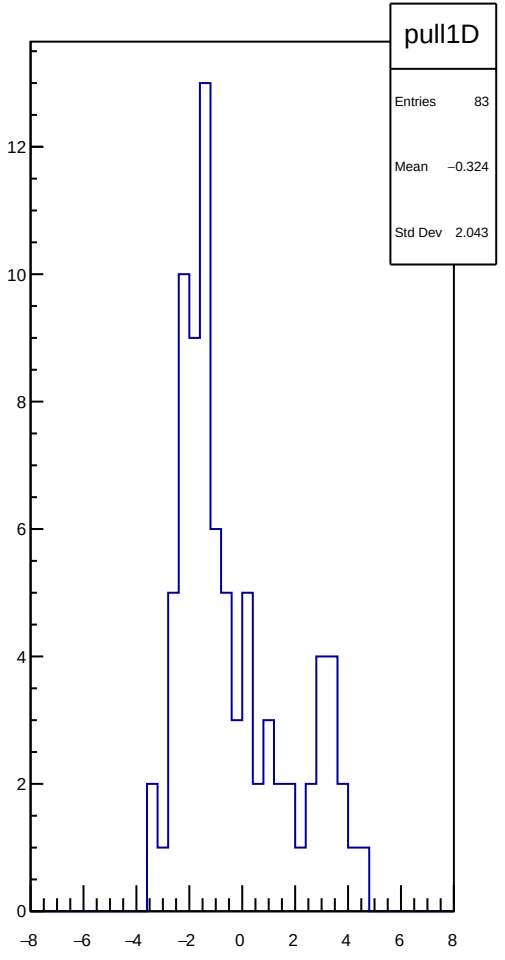

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 356.6 / 82
p0 −10.96 ± 0.8888
pull
Entries 83
Mean 139.5
Std Dev 0

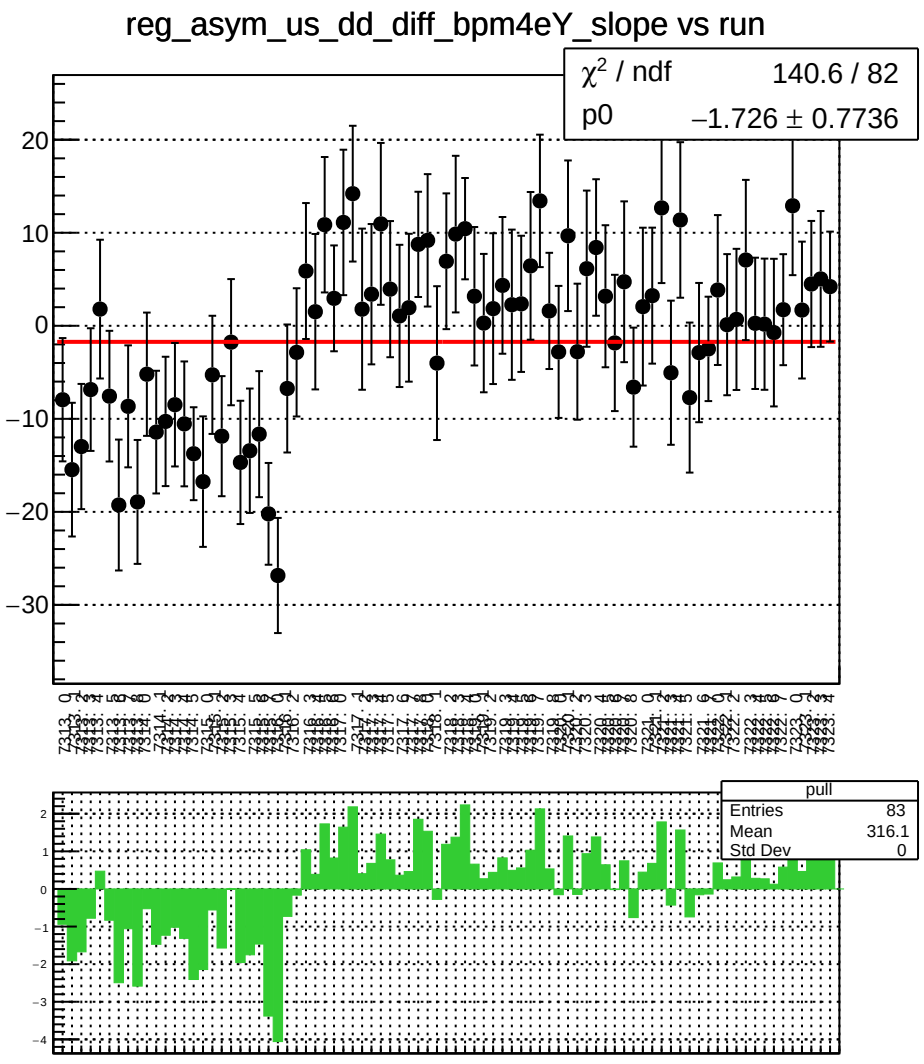

pull1D
Entries 83
Mean 0.319
Std Dev 2.048

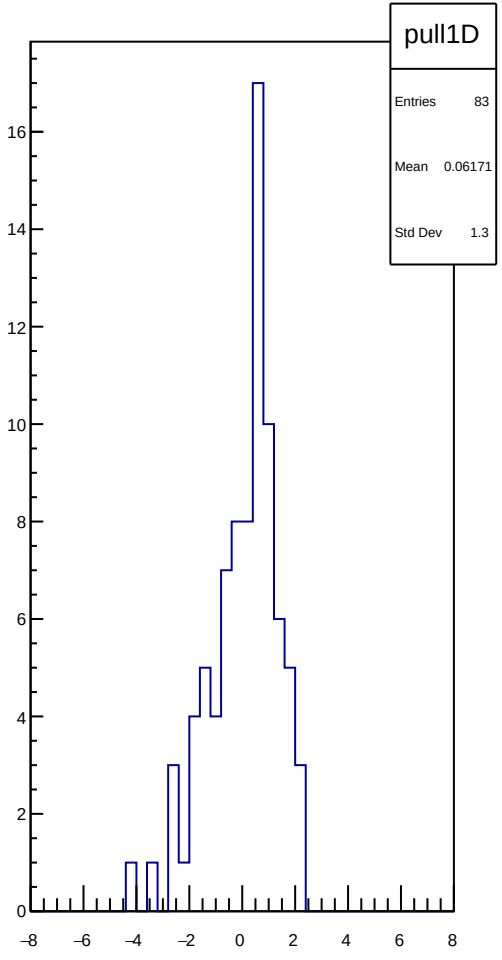

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 134.6 / 82
p0 3.027 ± 0.7143
pull
Entries 83
Mean 347.8
Std Dev 0

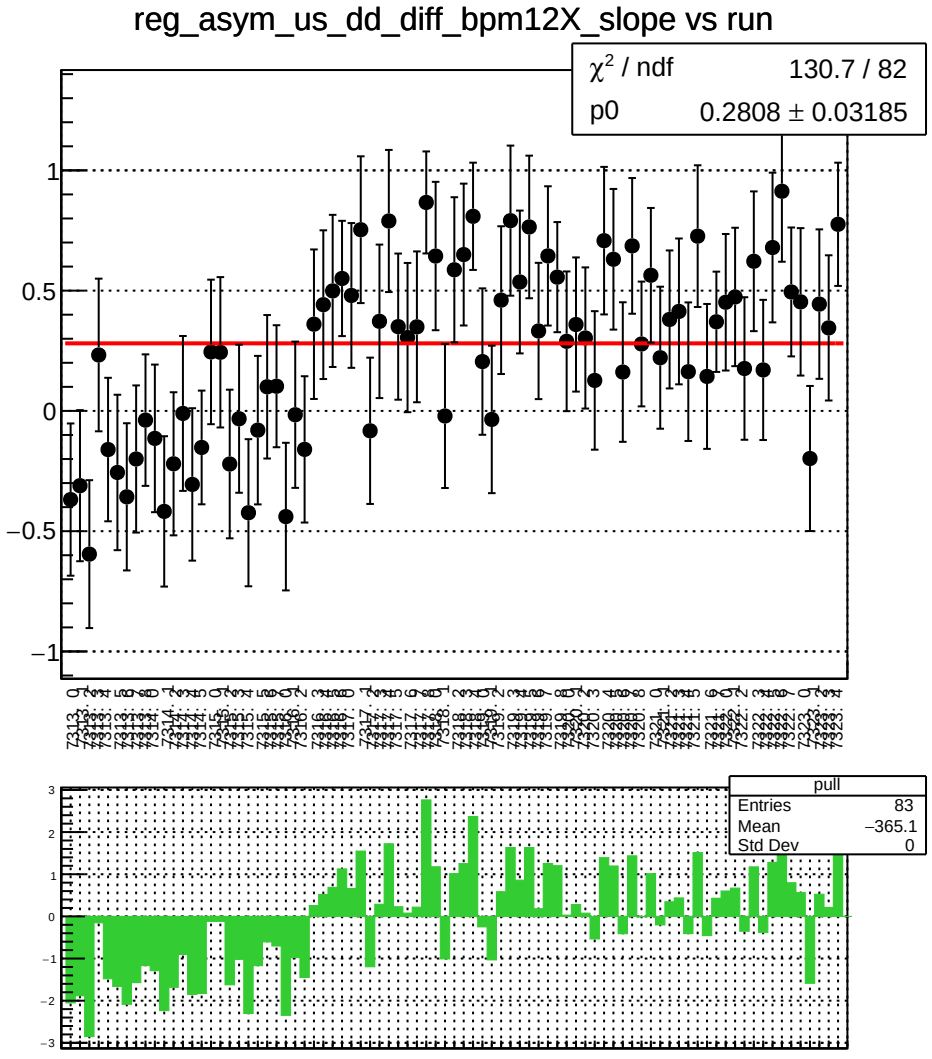

pull1D
Entries 83
Mean −0.0548
Std Dev 1.272

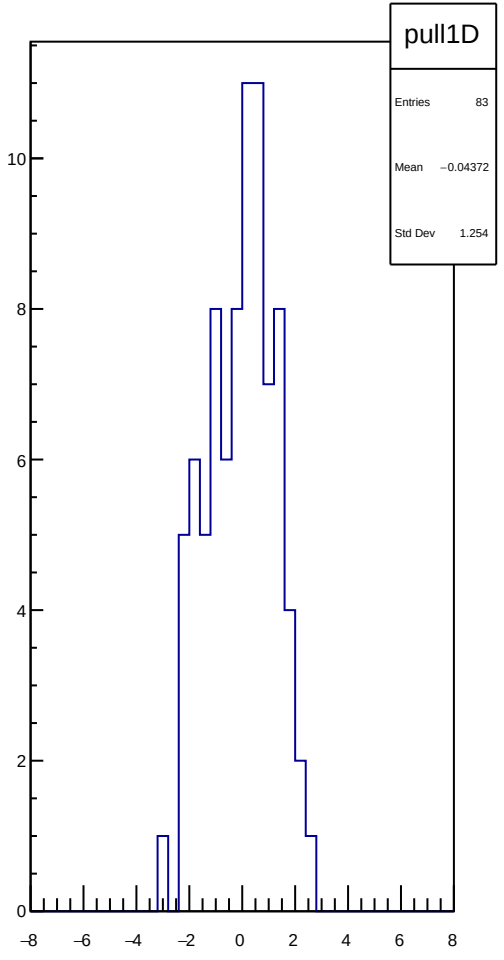

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 355.2 / 82
p0 −48.36 ± 0.8832
pull
Entries 83
Mean 138.1
Std Dev 0

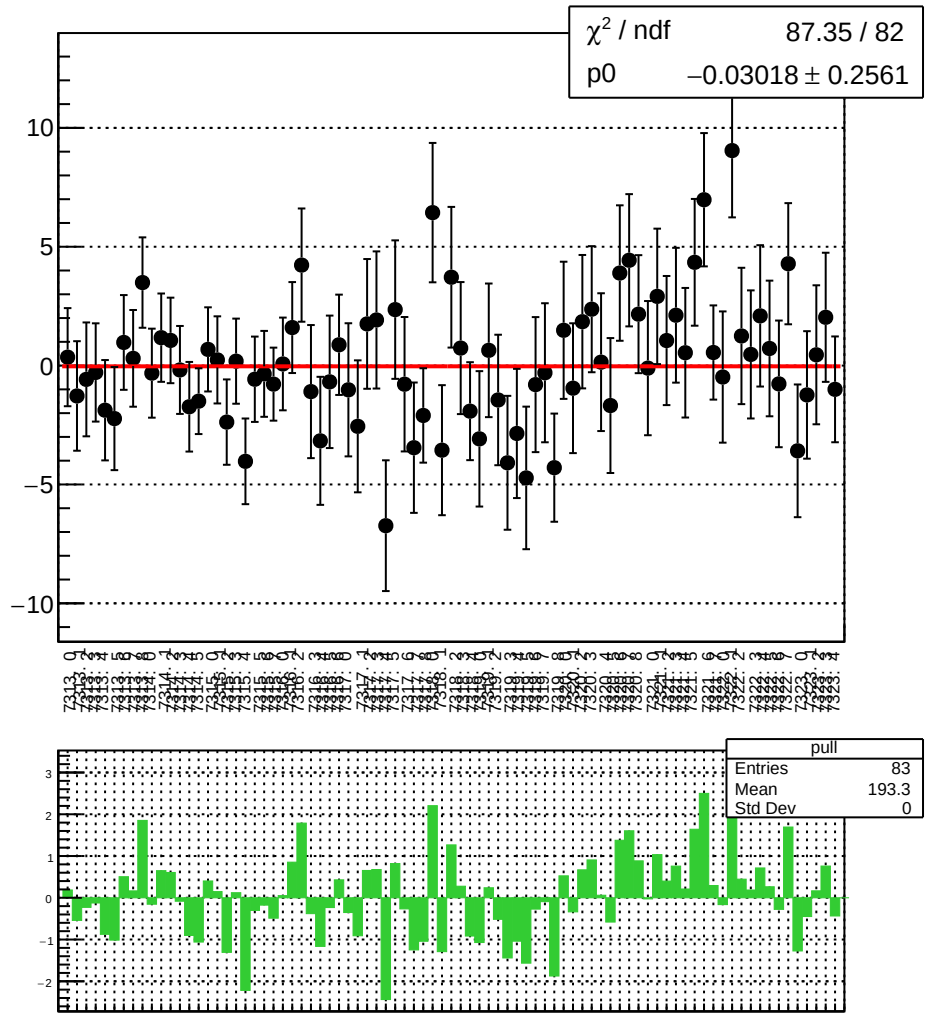

pull1D
Entries 83
Mean −0.324
Std Dev 2.043

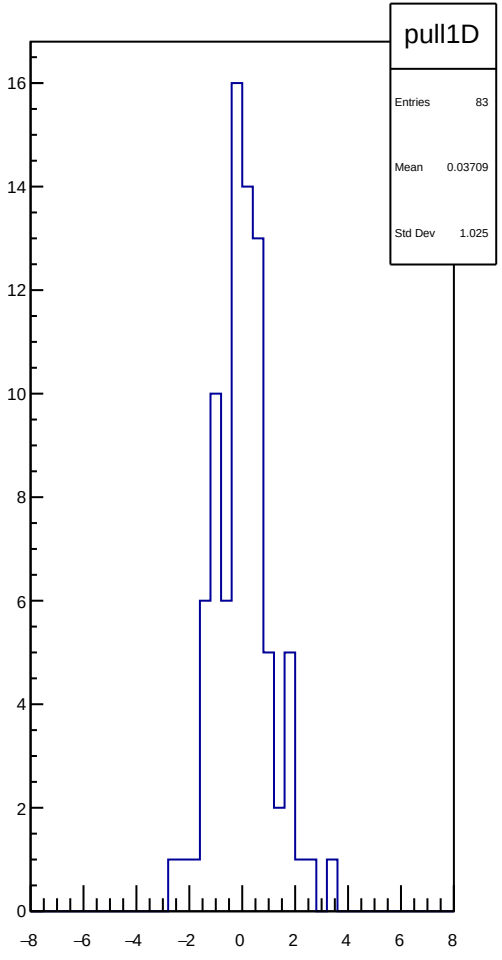

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 140.6 / 82
p0 −1.726 ± 0.7736
pull
Entries 83
Mean 316.1
Std Dev 0

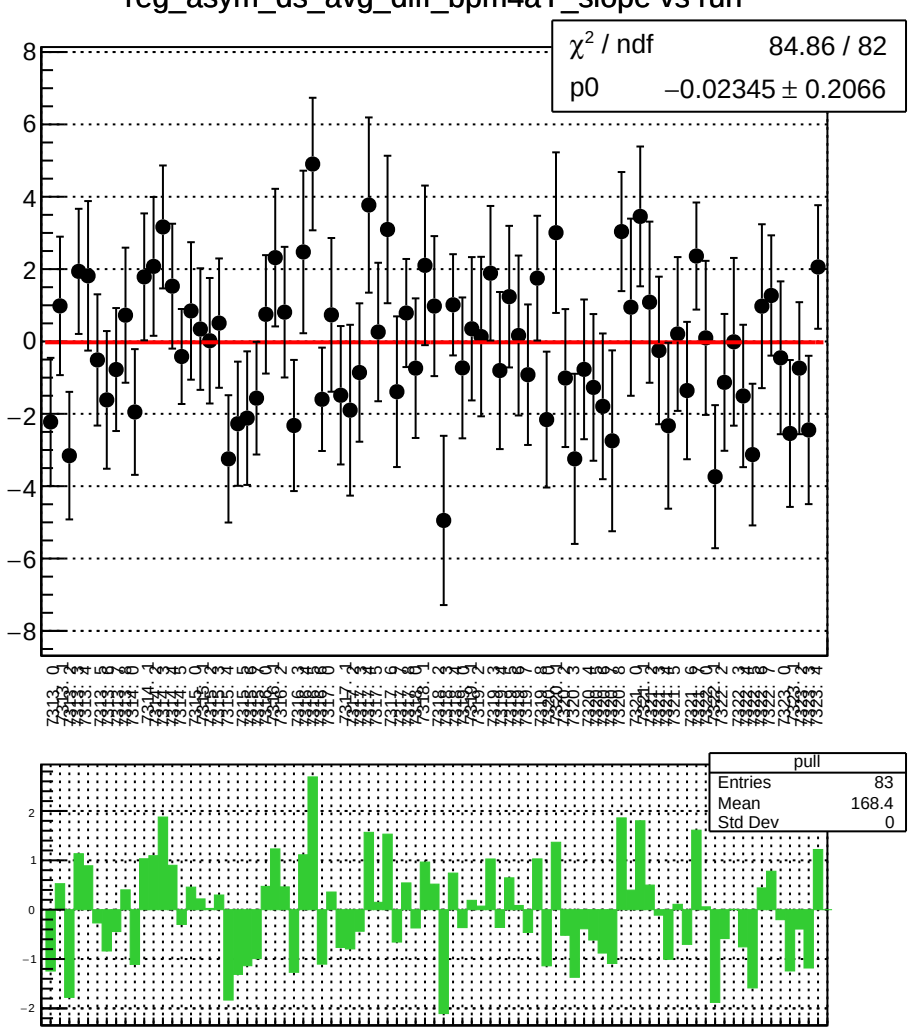

pull1D
Entries 83
Mean 0.06171
Std Dev 1.3

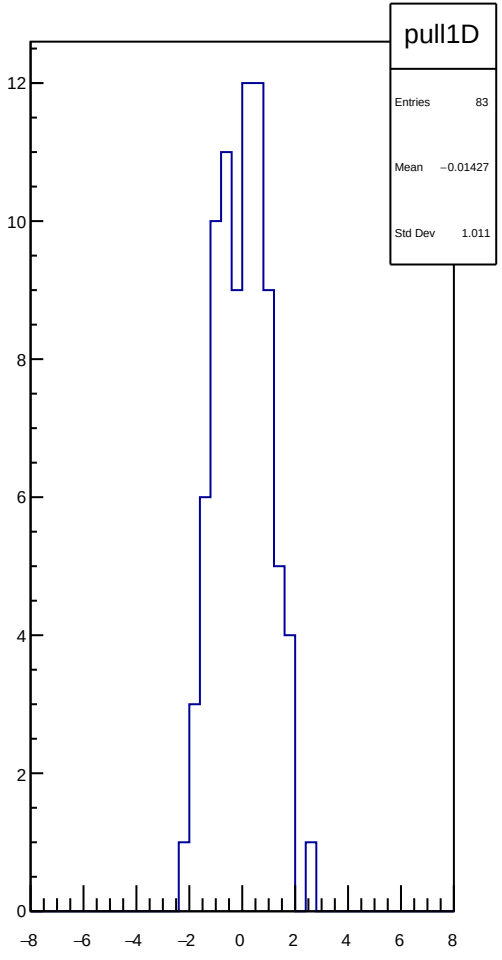

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 130.7 / 82
p0 0.2808 ± 0.03185
pull
Entries 83
Mean −365.1
Std Dev 0

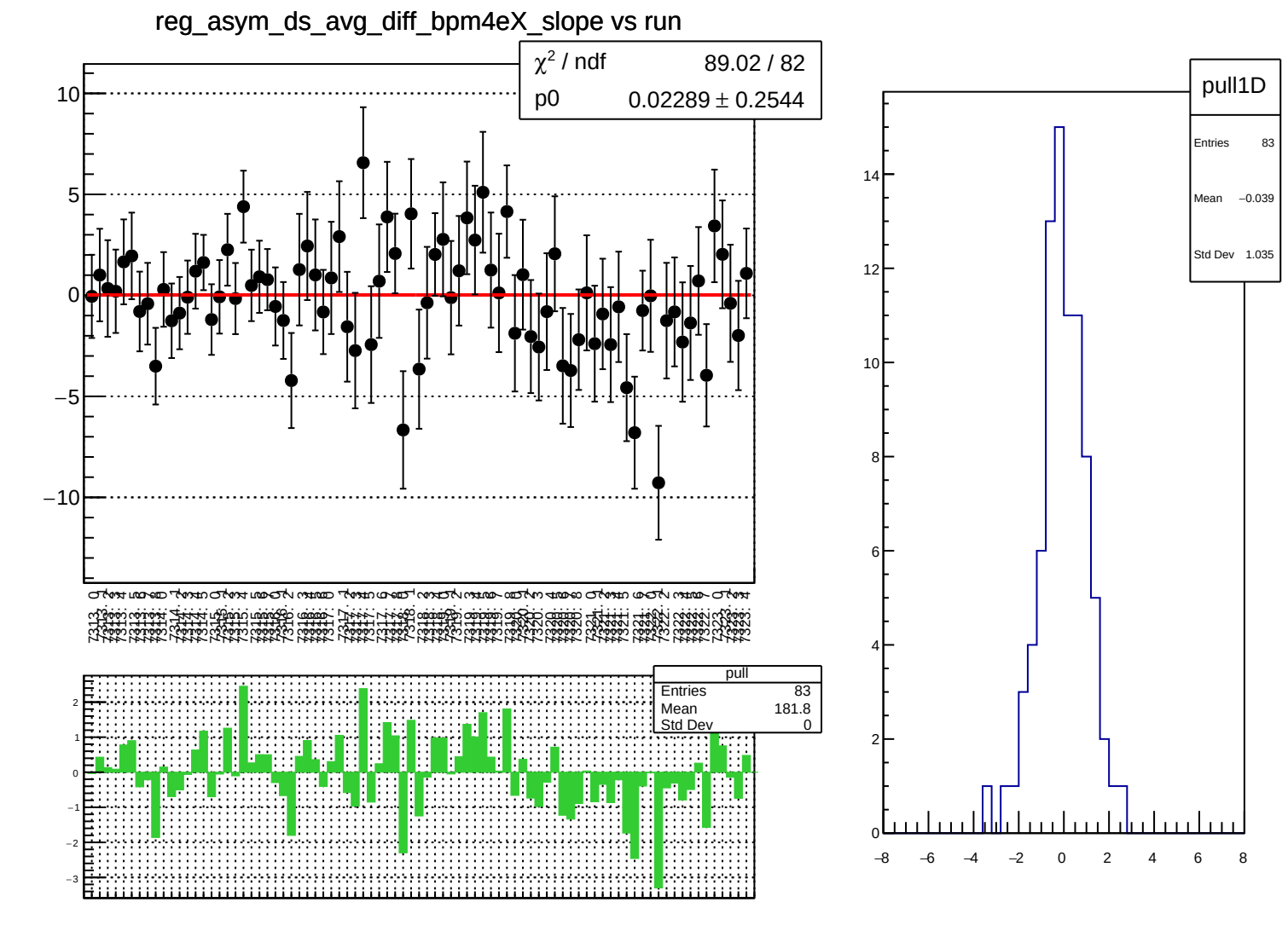

pull1D
Entries 83
Mean −0.04372
Std Dev 1.254

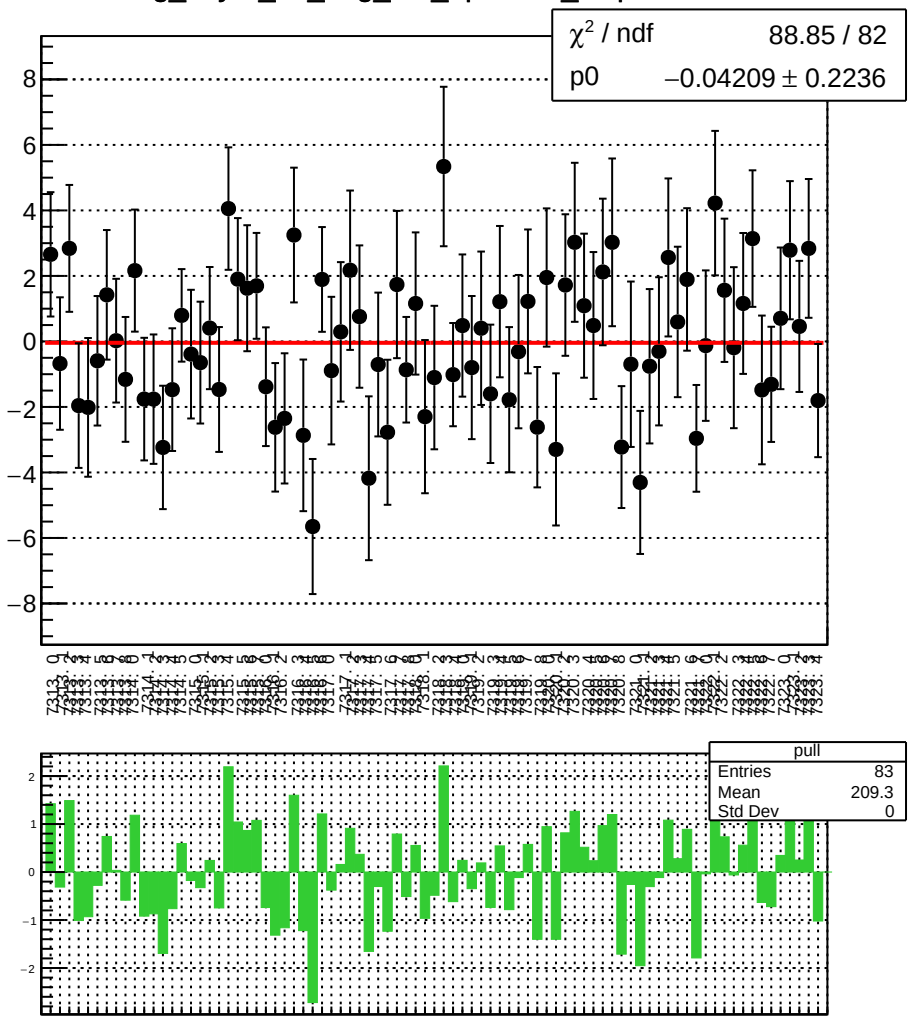

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 87.35 / 82
p0 −0.03018 ± 0.2561
pull
Entries 83
Mean 193.3
Std Dev 0

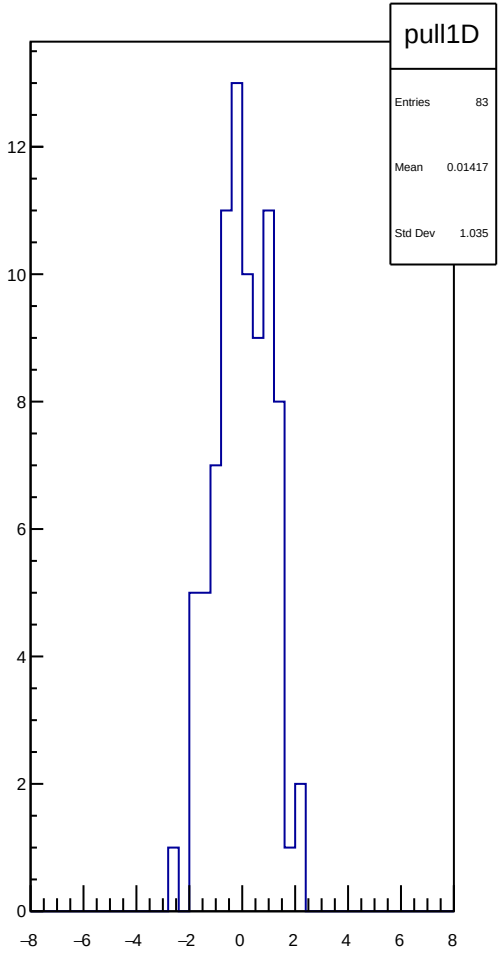

pull1D
Entries 83
Mean 0.03709
Std Dev 1.025

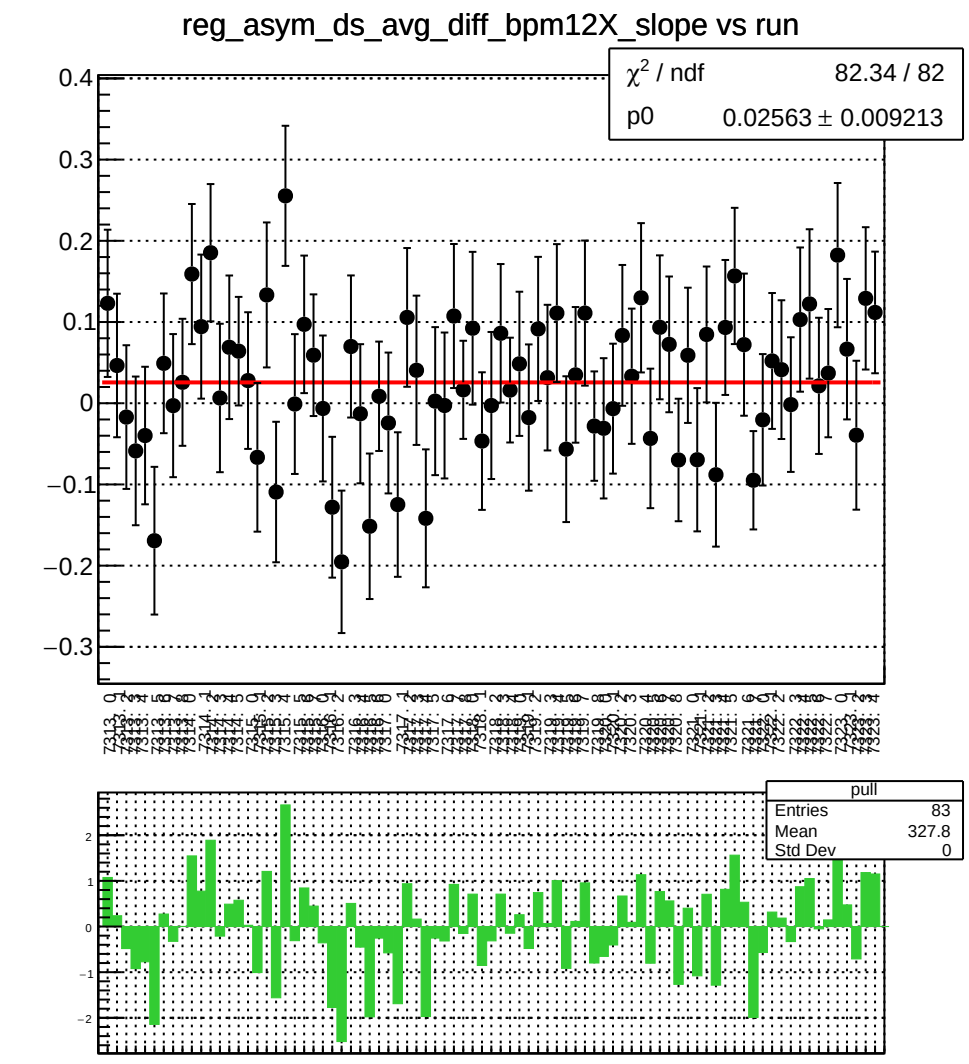

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.86 / 82
p0 −0.02345 ± 0.2066
pull
Entries 83
Mean 168.4
Std Dev 0

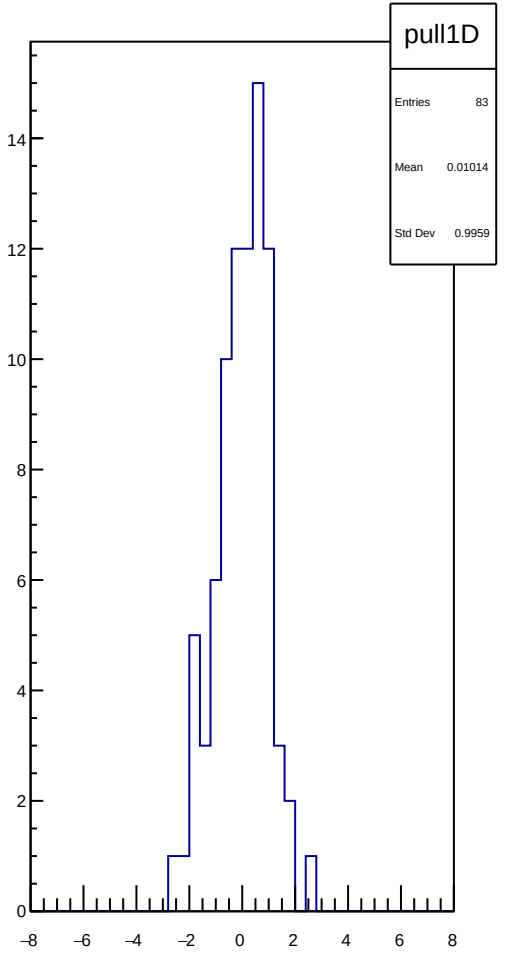

pull1D
Entries 83
Mean −0.01427
Std Dev 1.011

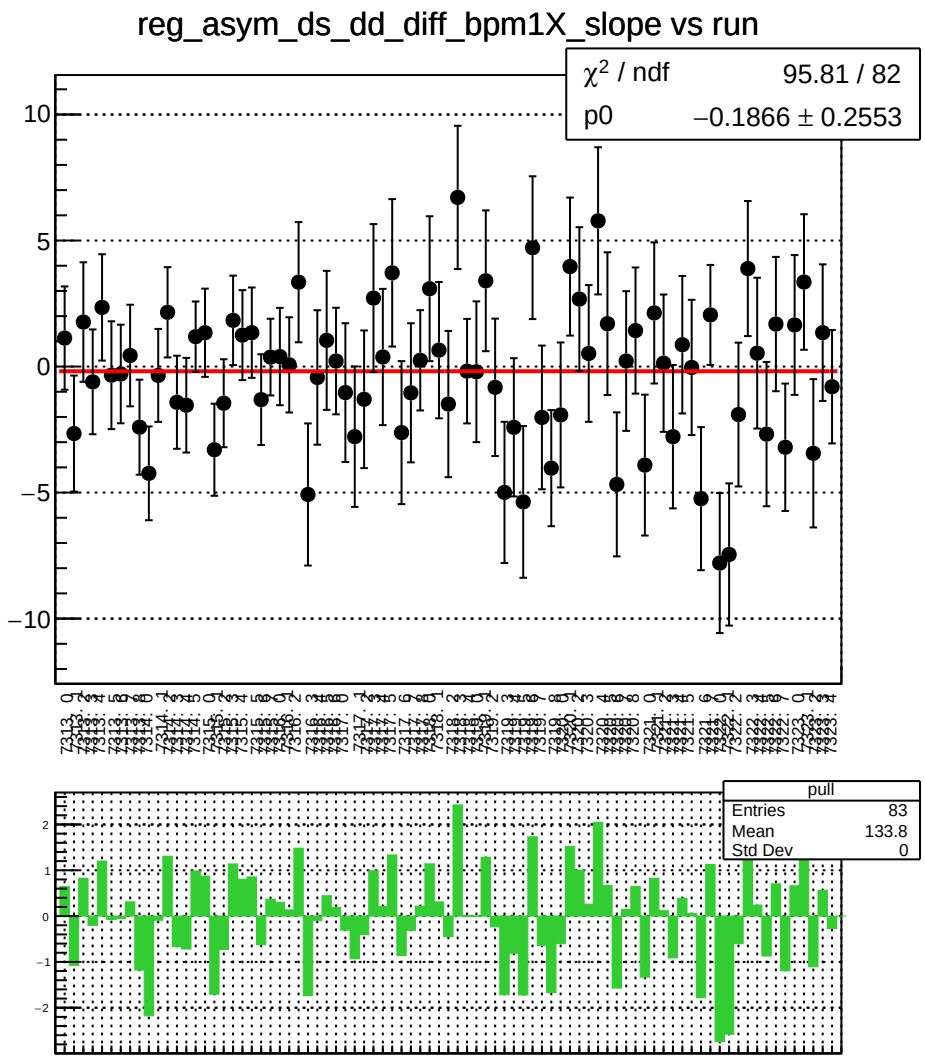

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.02 / 82
p0 0.02289 ± 0.2544
pull
Entries 83
Mean 181.8
Std Dev 0
pull1D
Entries 83
Mean −0.039
Std Dev 1.035

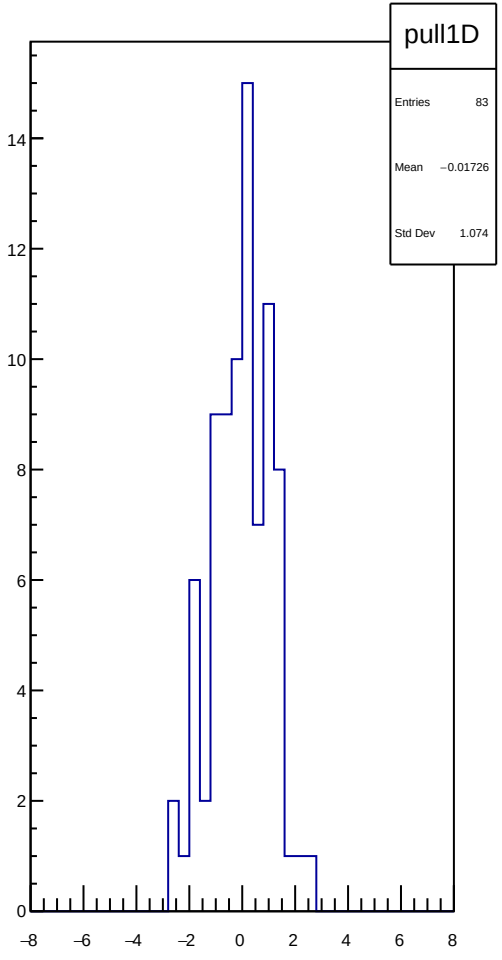

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.85 / 82
p0 −0.04209 ± 0.2236
pull
Entries 83
Mean 209.3
Std Dev 0

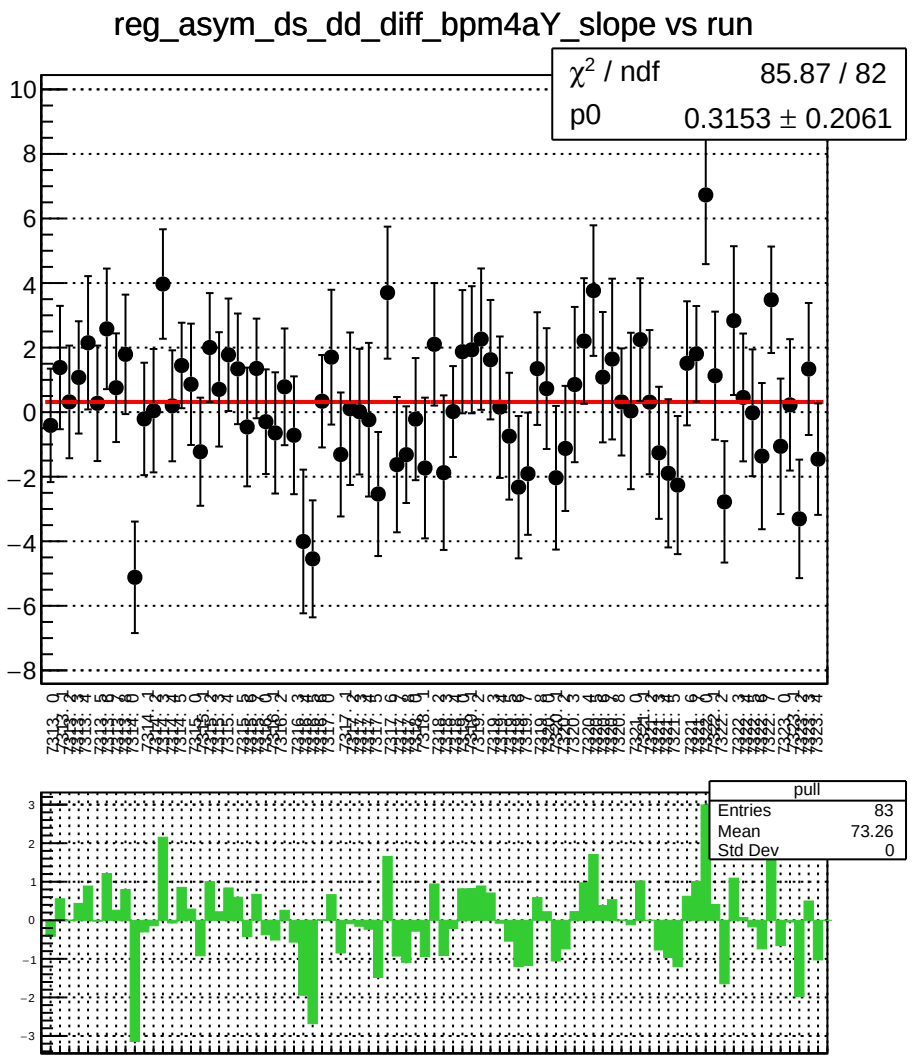

pull1D
Entries 83
Mean 0.01417
Std Dev 1.035

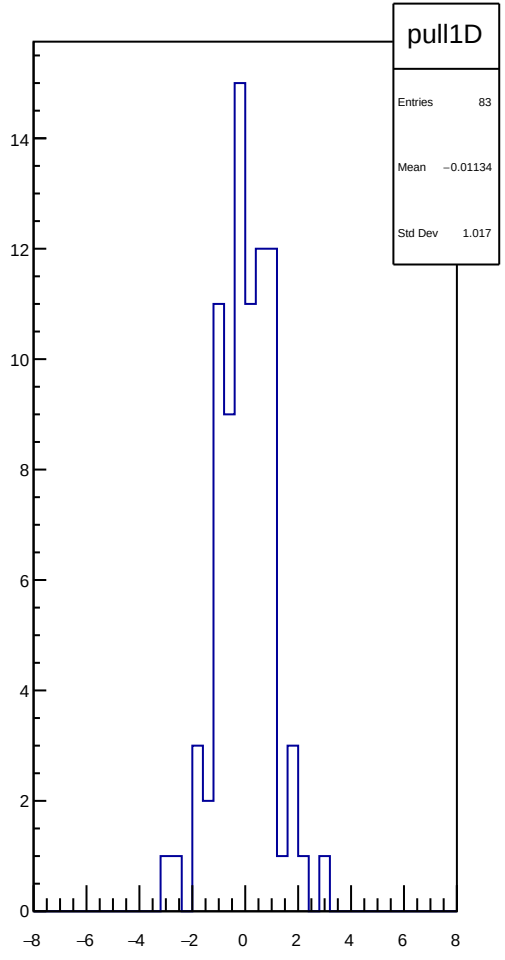

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 82.34 / 82
p0 0.02563 ± 0.009213
pull
Entries 83
Mean 327.8
Std Dev 0

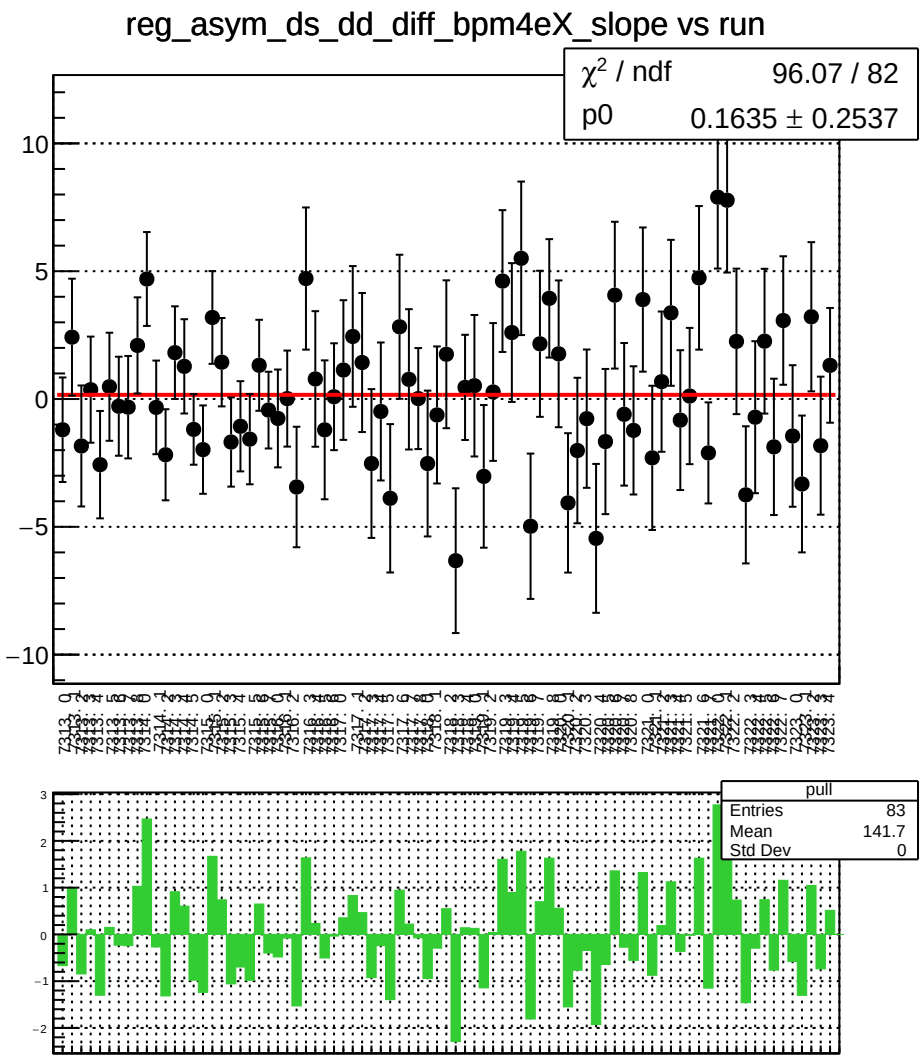

pull1D
Entries 83
Mean 0.01014
Std Dev 0.9959

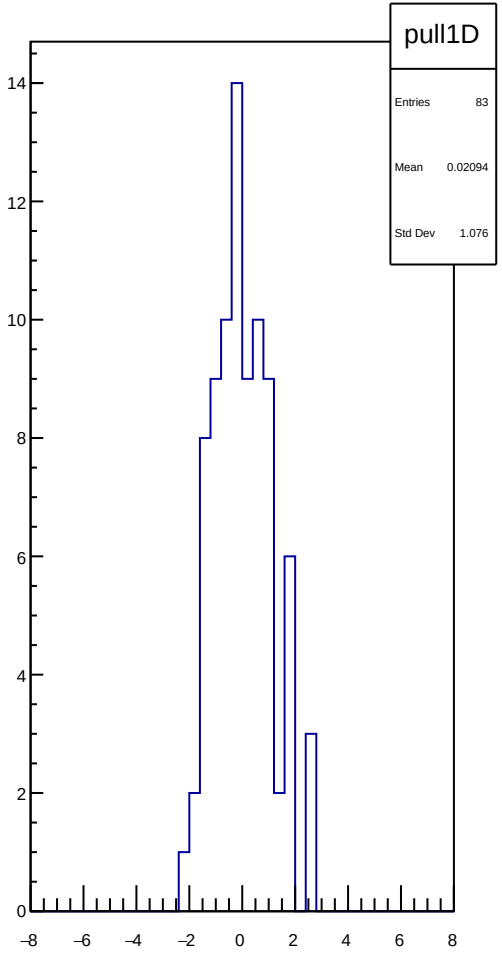

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 95.81 / 82
p0 −0.1866 ± 0.2553
pull
Entries 83
Mean 133.8
Std Dev 0

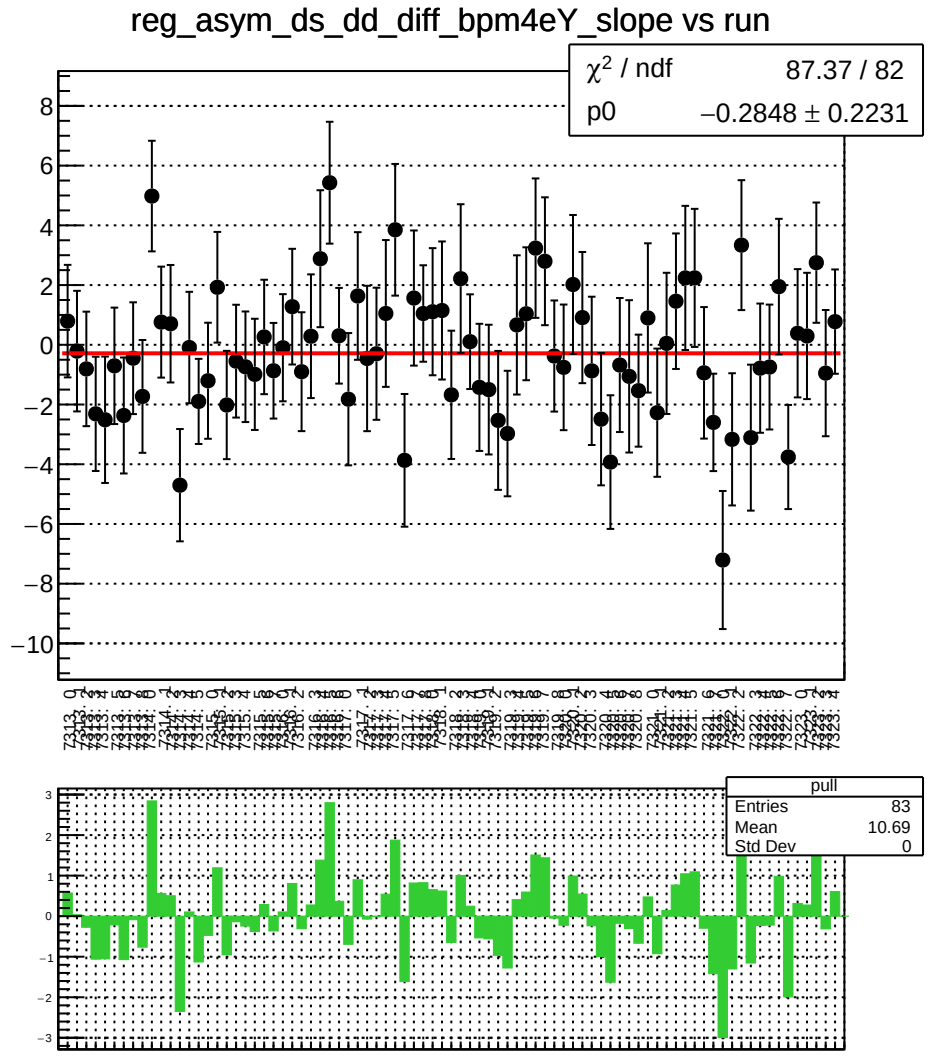

pull1D
Entries 83
Mean −0.01726
Std Dev 1.074

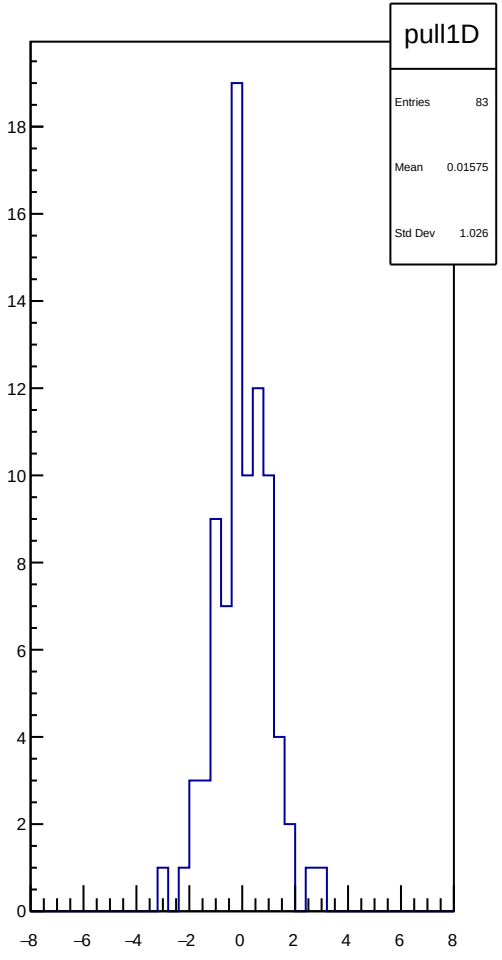

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.87 / 82
p0 0.3153 ± 0.2061
pull
Entries 83
Mean 73.26
Std Dev 0

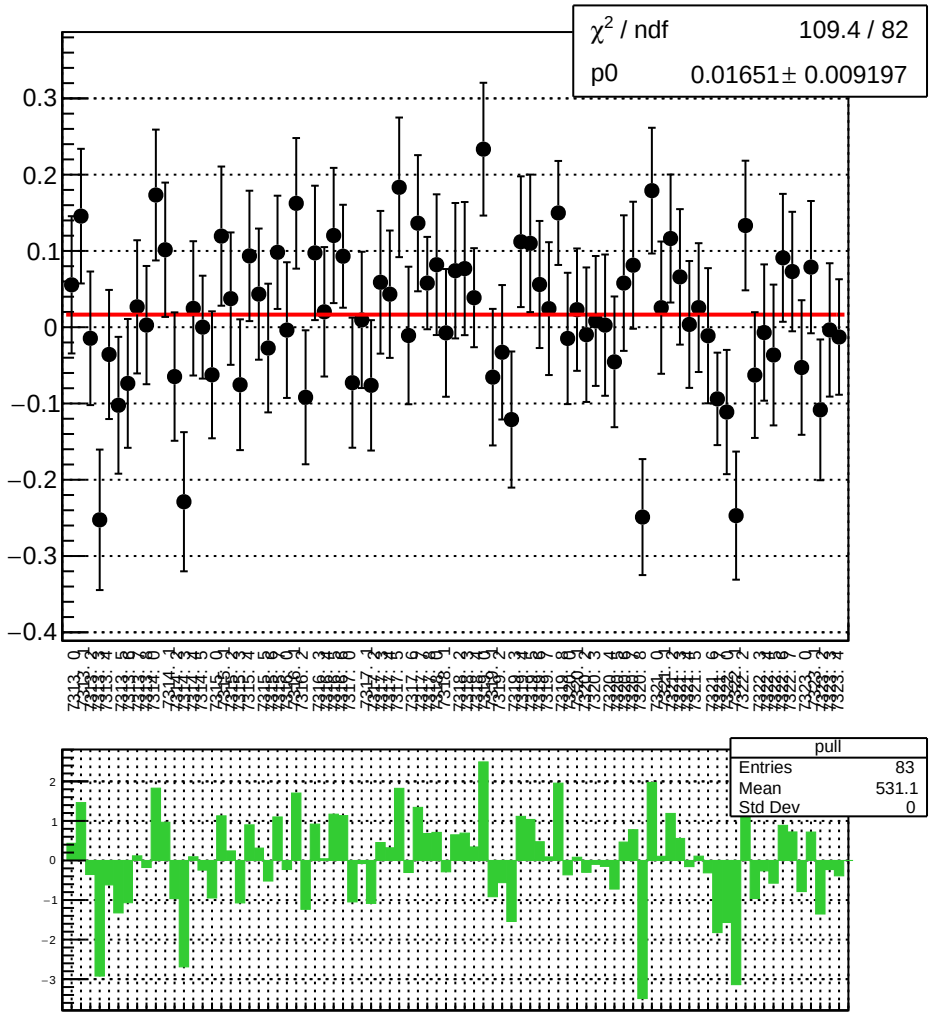

pull1D
Entries 83
Mean −0.01134
Std Dev 1.017

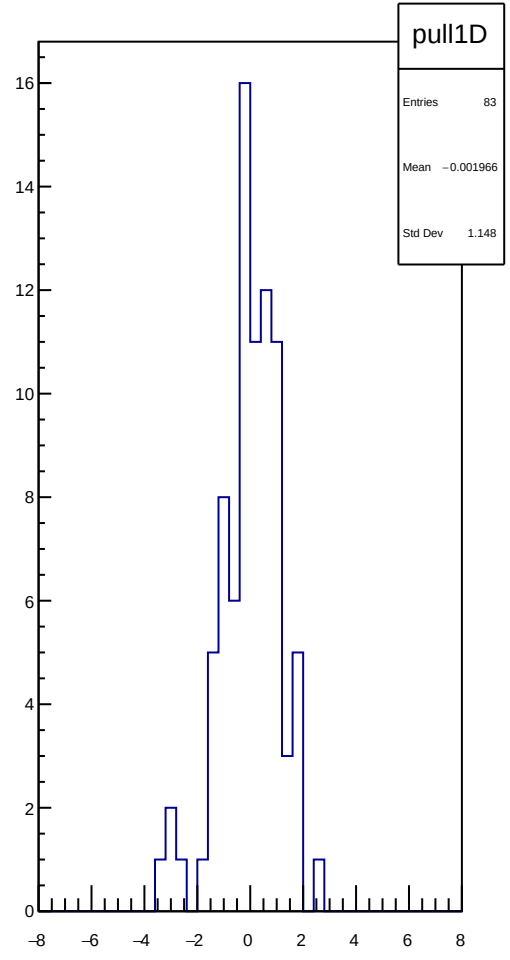

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.07 / 82
p0 0.1635 ± 0.2537
pull
Entries 83
Mean 141.7
Std Dev 0

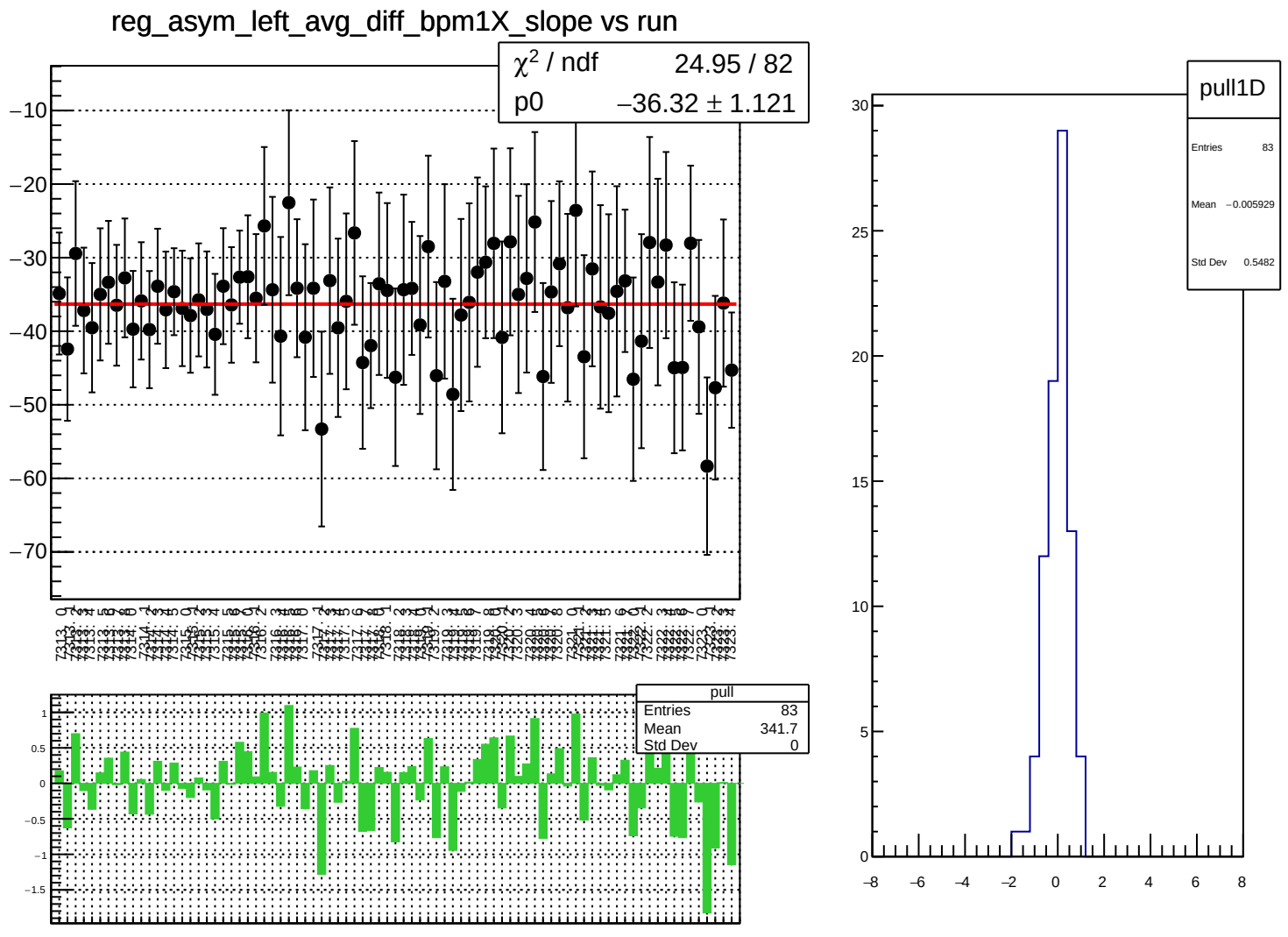

pull1D
Entries 83
Mean 0.02094
Std Dev 1.076

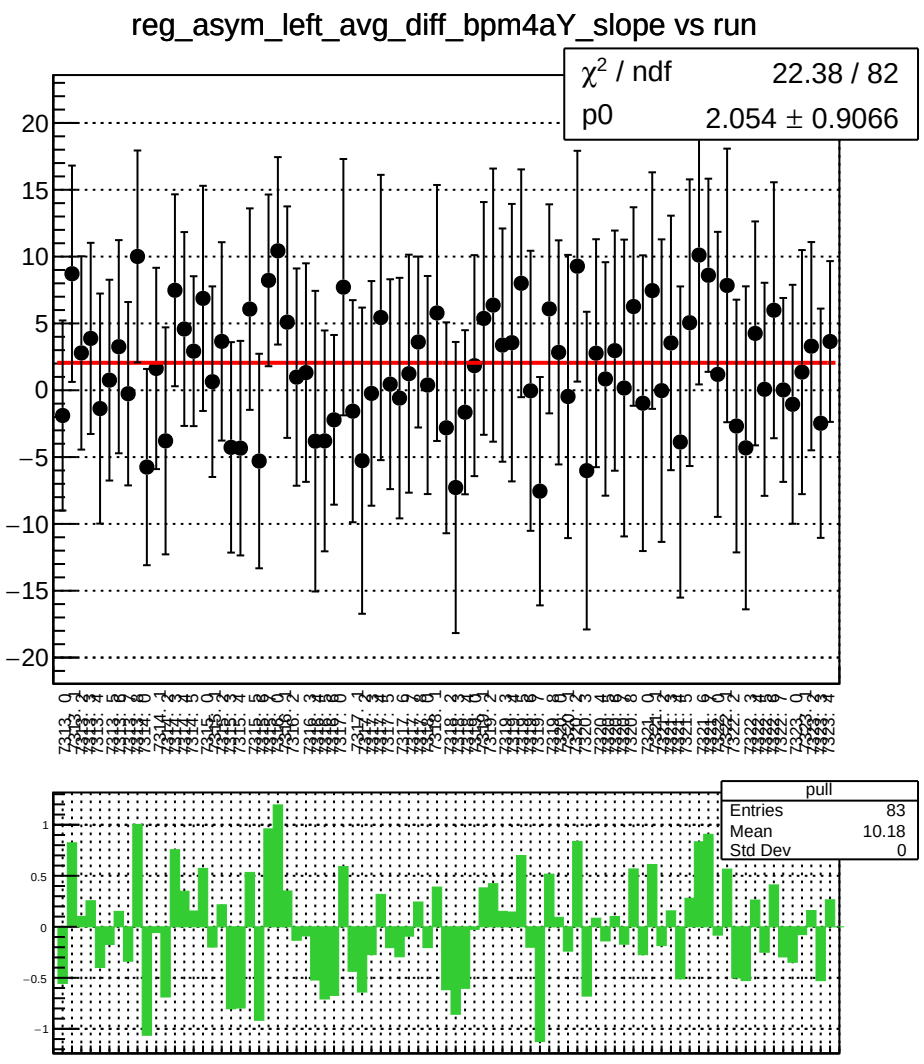

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.37 / 82
p0 −0.2848 ± 0.2231
pull
Entries 83
Mean 10.69
Std Dev 0

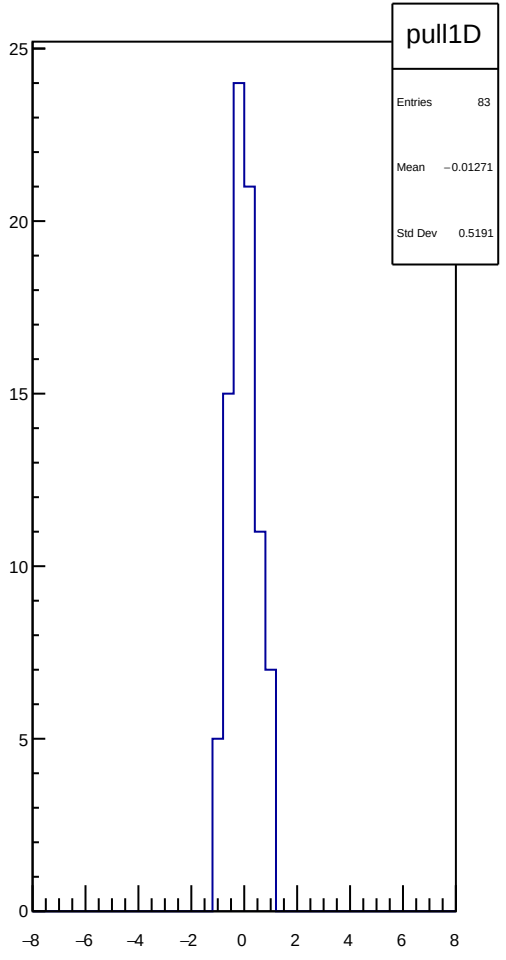

pull1D
Entries 83
Mean 0.01575
Std Dev 1.026

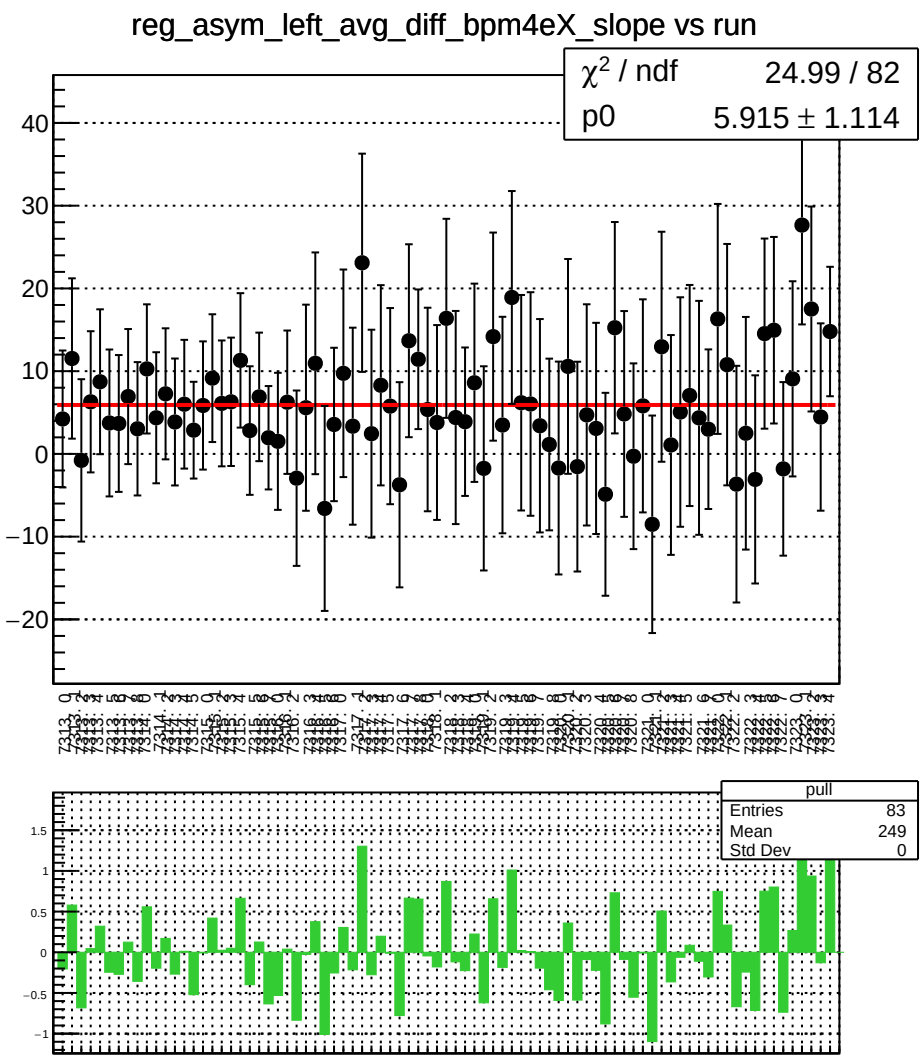

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 109.4 / 82
p0 0.01651± 0.009197
pull
Entries 83
Mean 531.1
Std Dev 0

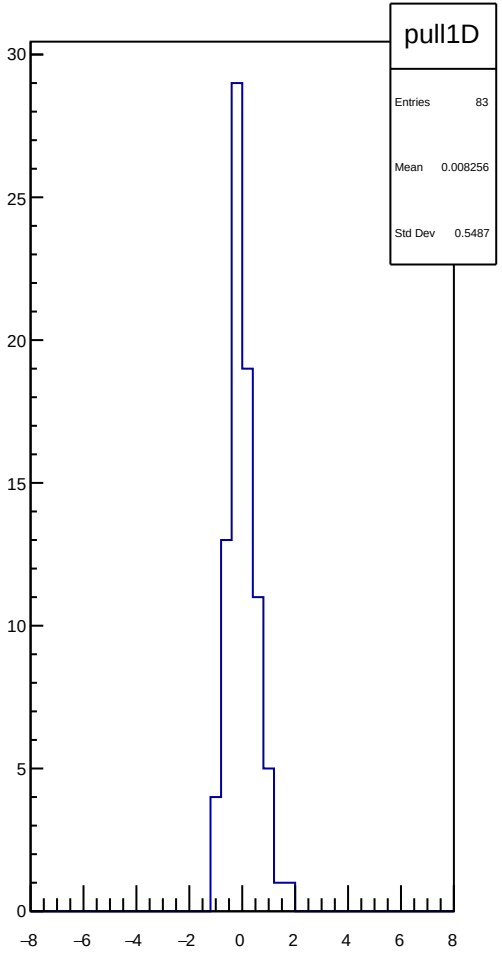

pull1D
Entries 83
Mean −0.001966
Std Dev 1.148

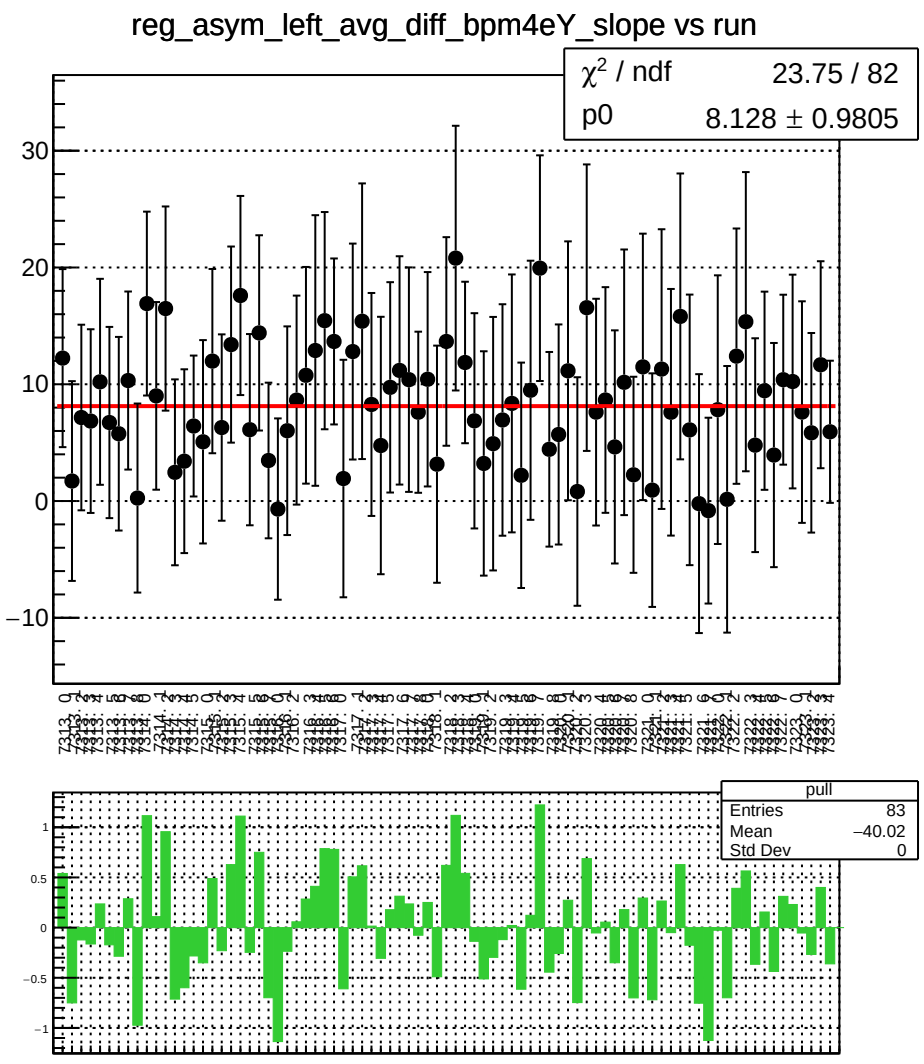

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 24.95 / 82
p0 −36.32 ± 1.121
pull
Entries 83
Mean 341.7
Std Dev 0
pull1D
Entries 83
Mean −0.005929
Std Dev 0.5482

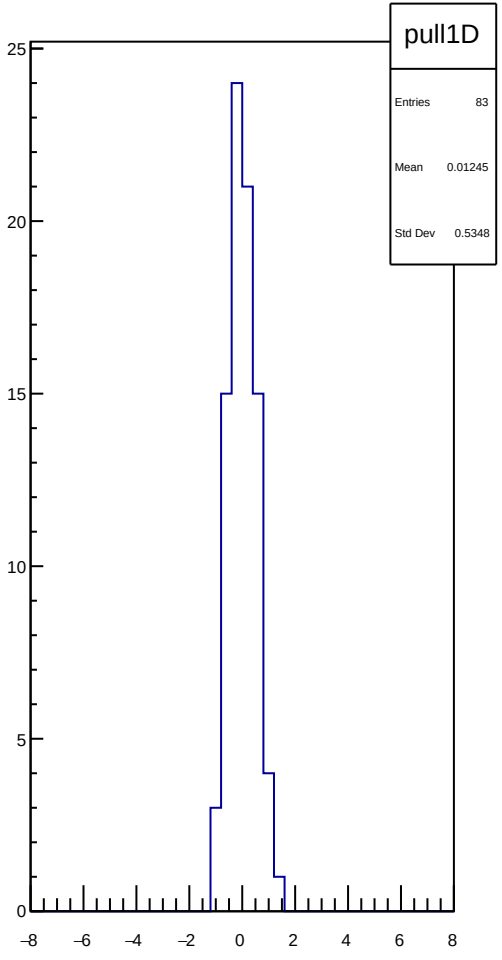

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.38 / 82
p0 2.054 ± 0.9066
pull
Entries 83
Mean 10.18
Std Dev 0

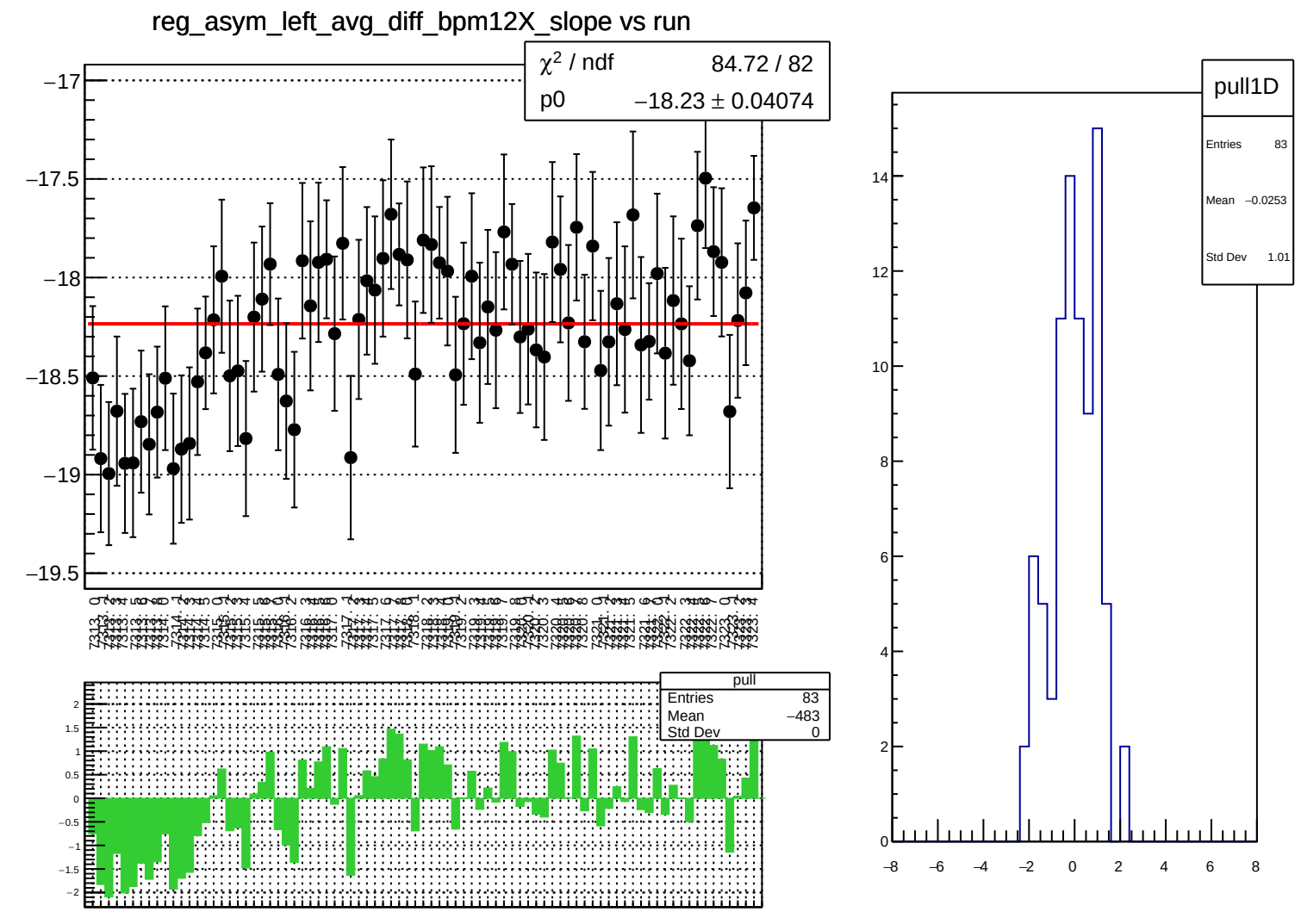

pull1D
Entries 83
Mean −0.01271
Std Dev 0.5191

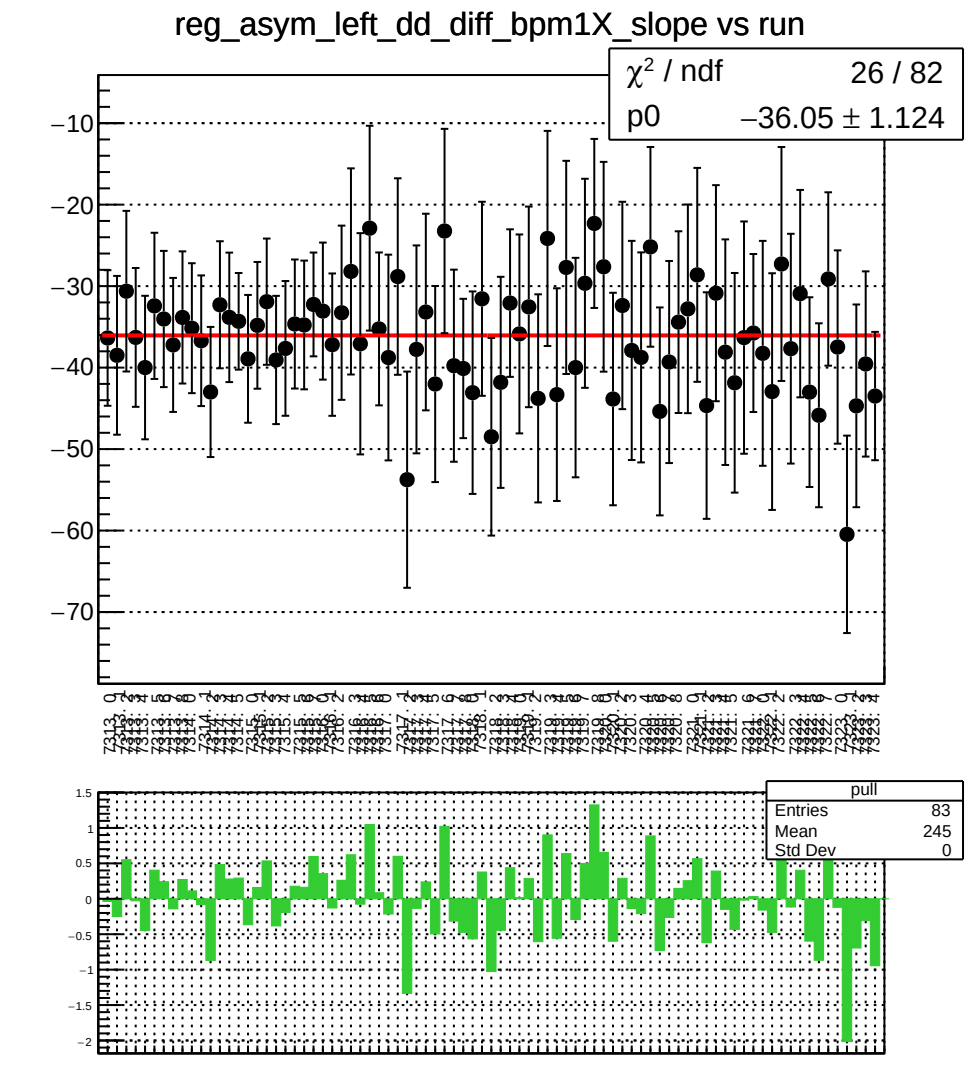

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.99 / 82
p0 5.915 ± 1.114
pull
Entries 83
Mean 249
Std Dev 0

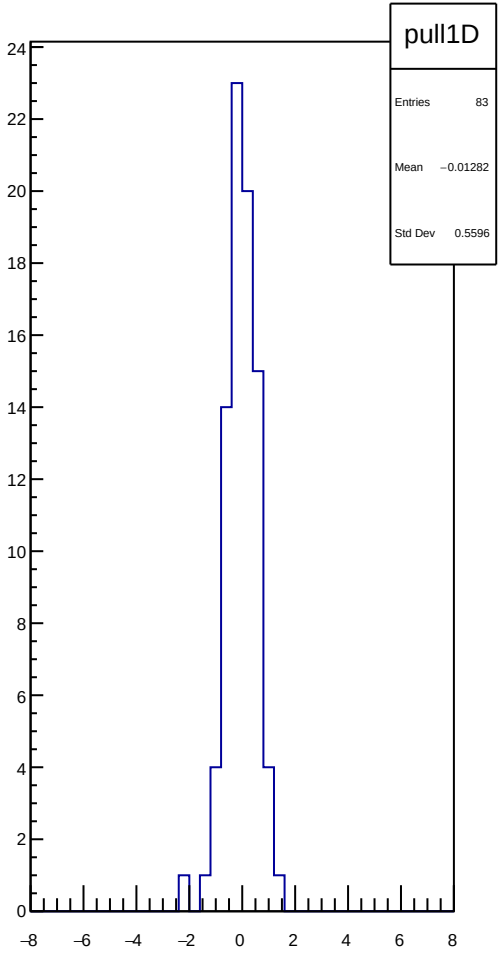

pull1D
Entries 83
Mean 0.008256
Std Dev 0.5487

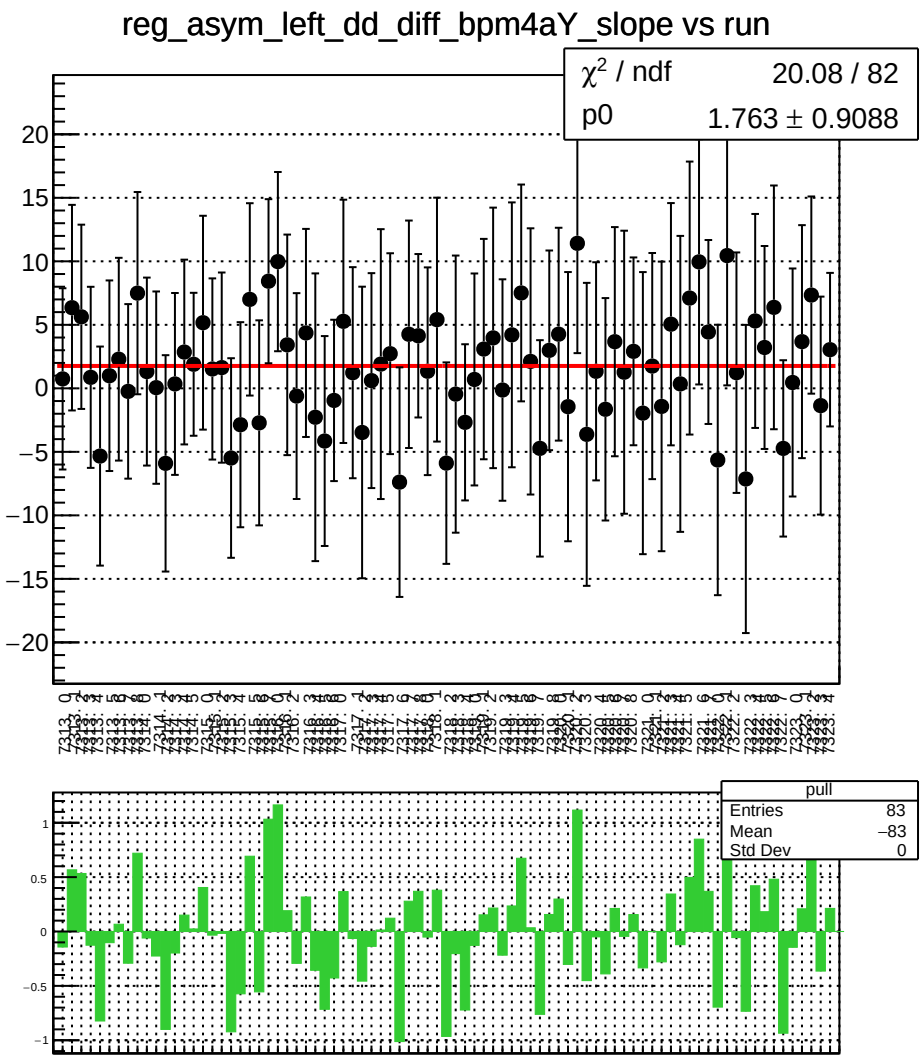

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.75 / 82
p0 8.128 ± 0.9805
pull
Entries 83
Mean −40.02
Std Dev 0

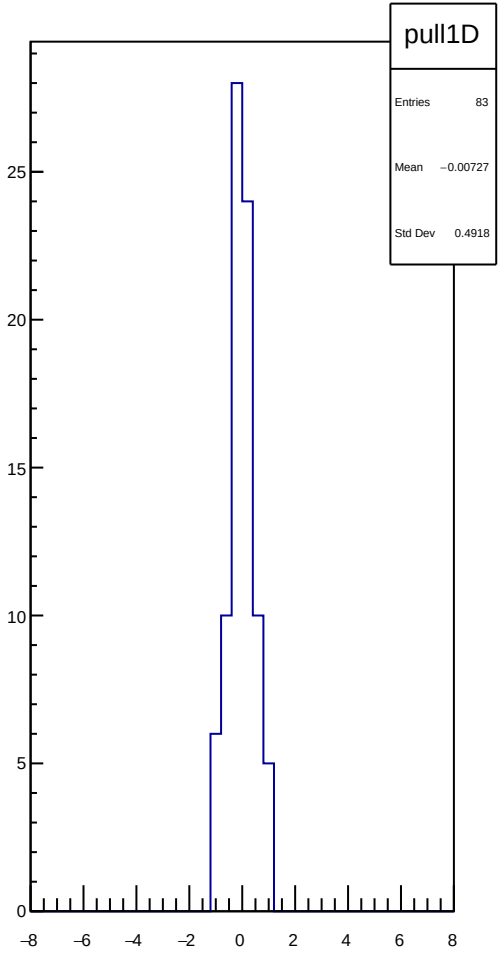

pull1D
Entries 83
Mean 0.01245
Std Dev 0.5348

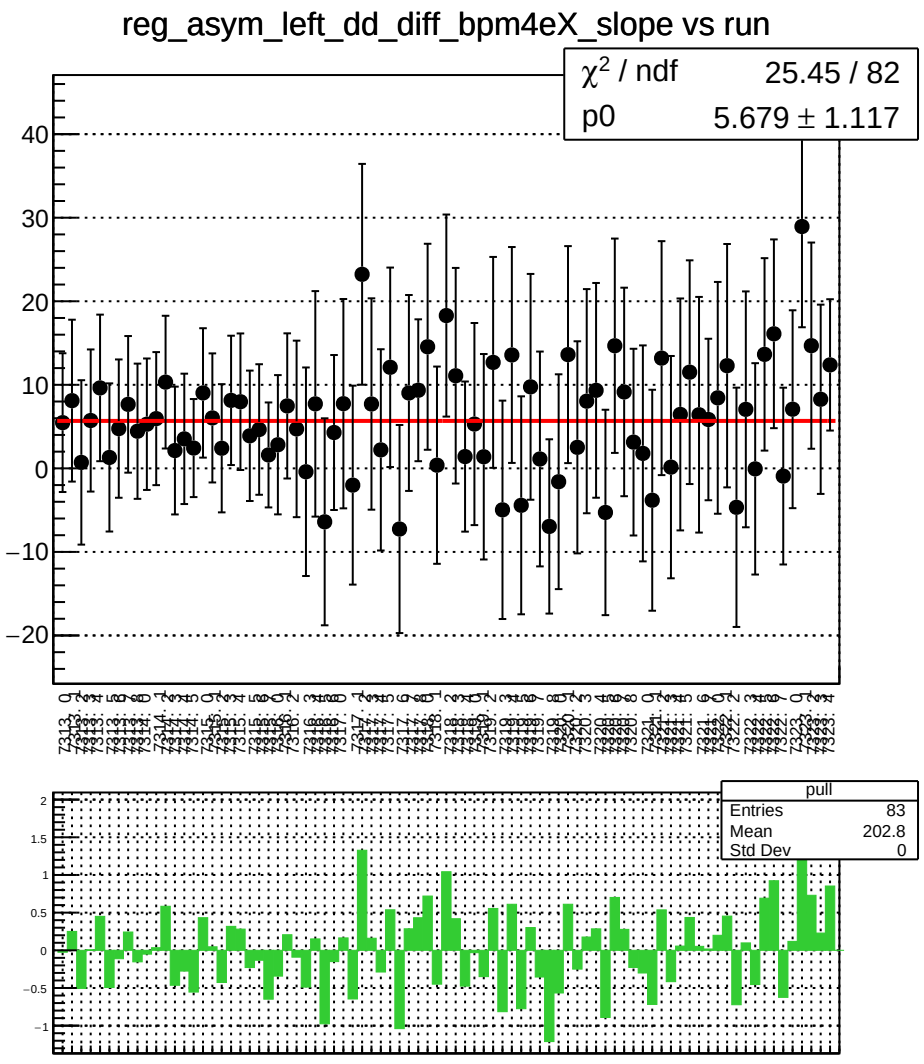

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 84.72 / 82
p0 −18.23 ± 0.04074
pull
Entries 83
Mean −483
Std Dev 0
pull1D
Entries 83
Mean −0.0253
Std Dev 1.01

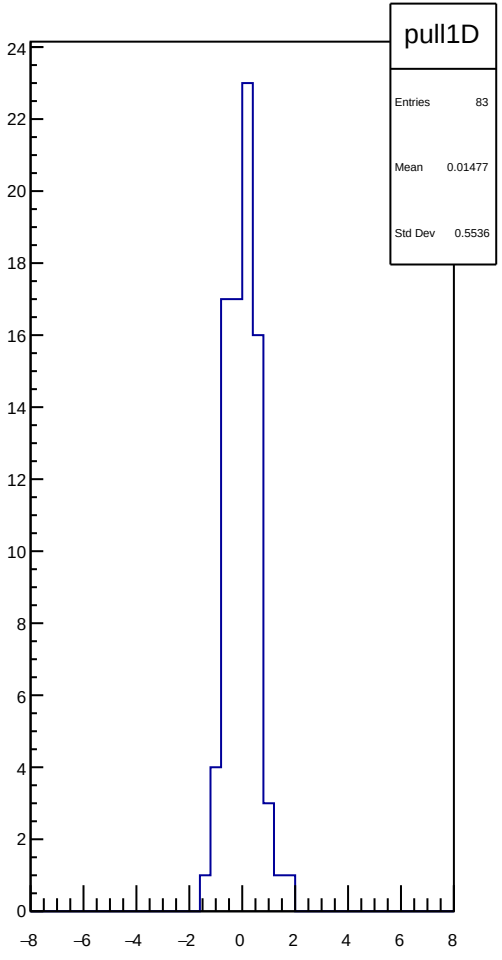

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 26 / 82
p0 −36.05 ± 1.124
pull
Entries 83
Mean 245
Std Dev 0

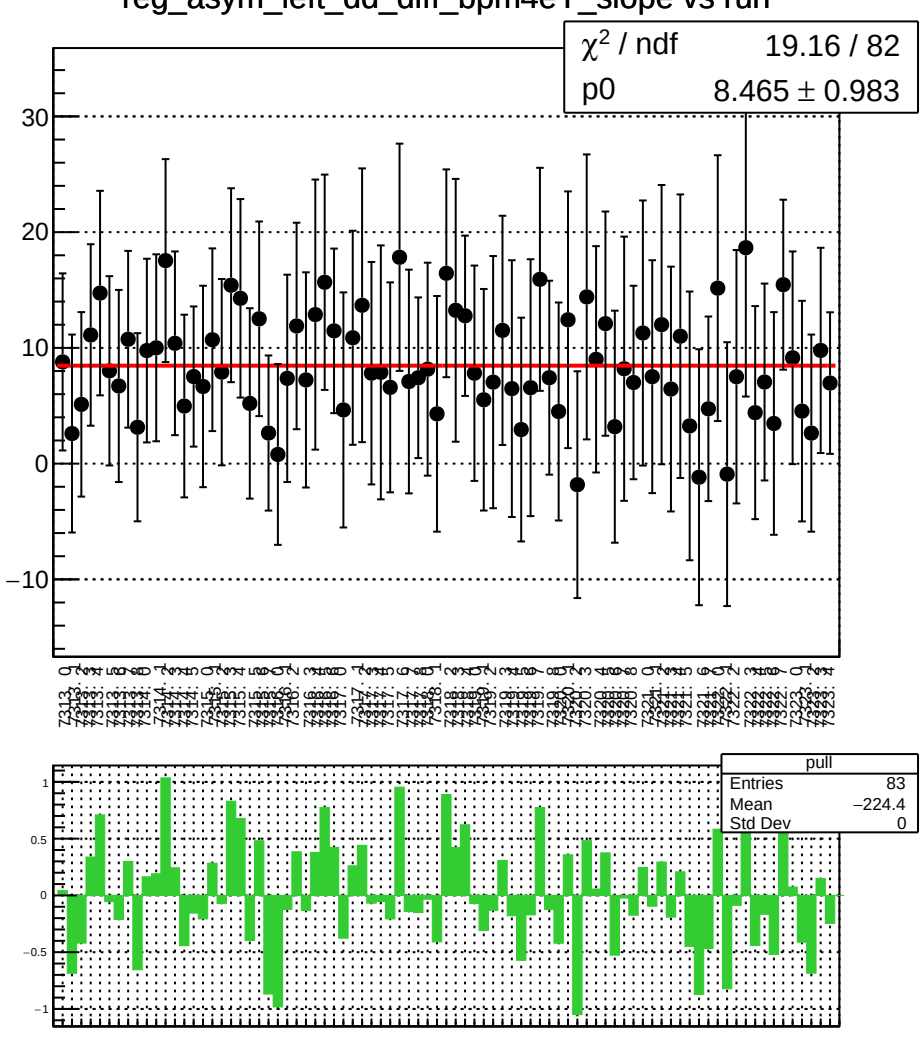

pull1D
Entries 83
Mean −0.01282
Std Dev 0.5596

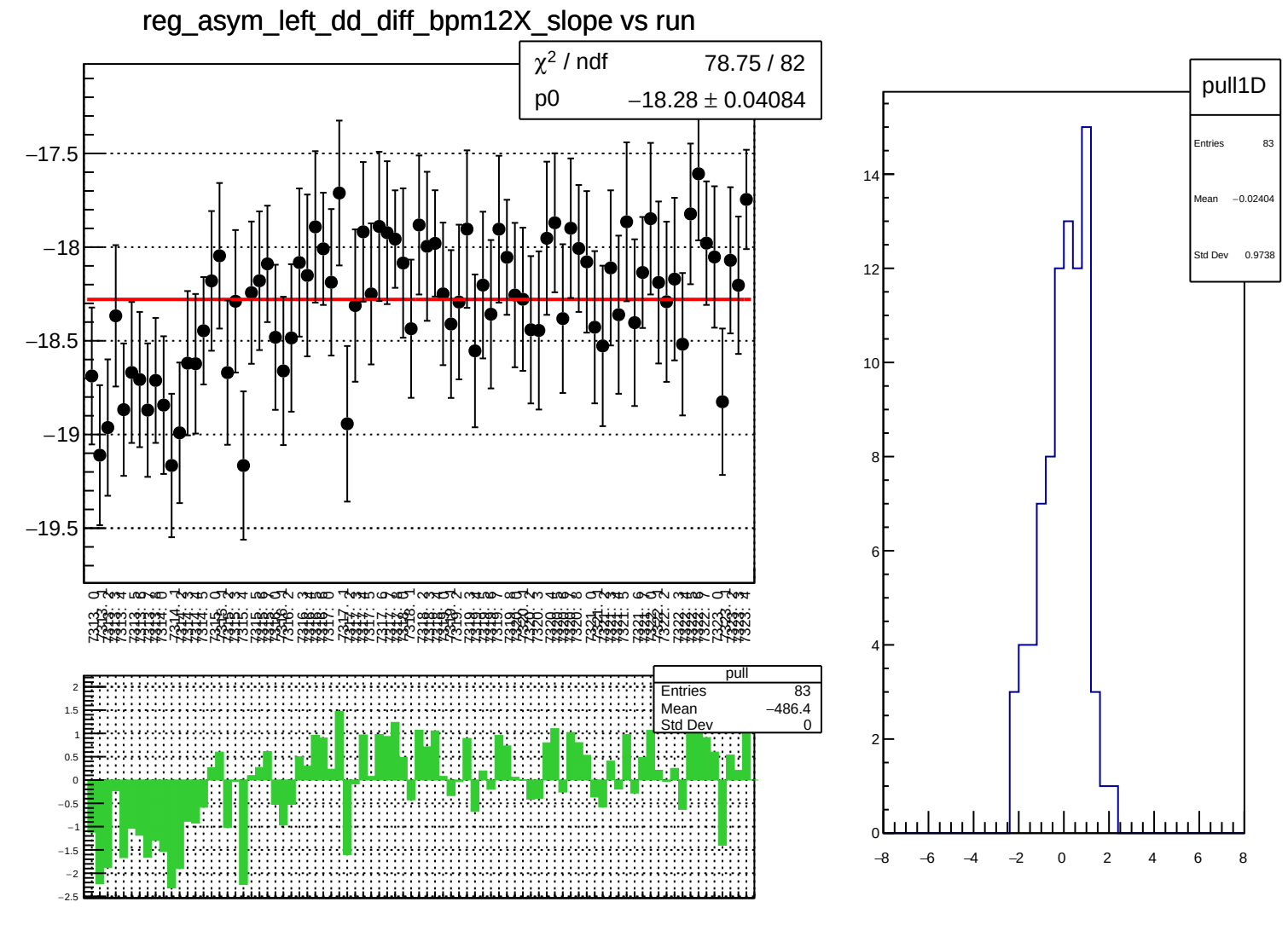

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.08 / 82
p0 1.763 ± 0.9088
pull
Entries 83
Mean −83
Std Dev 0

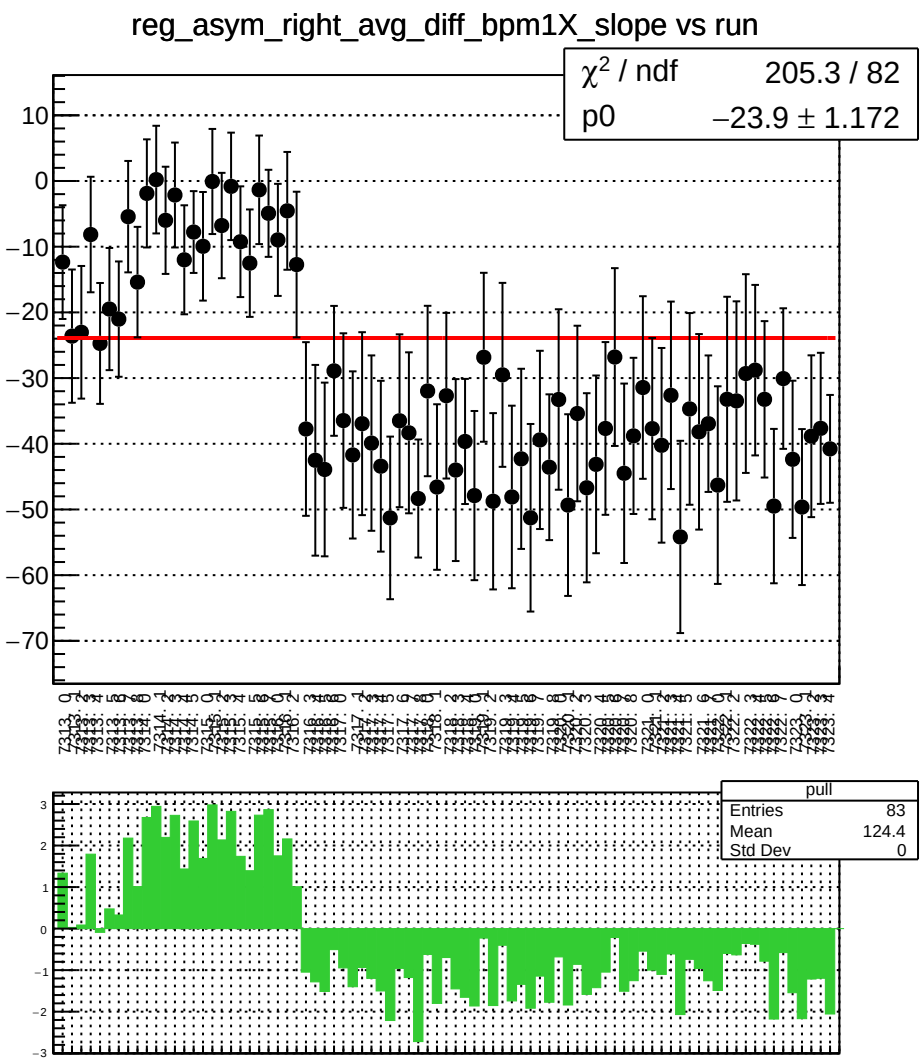

pull1D
Entries 83
Mean −0.00727
Std Dev 0.4918

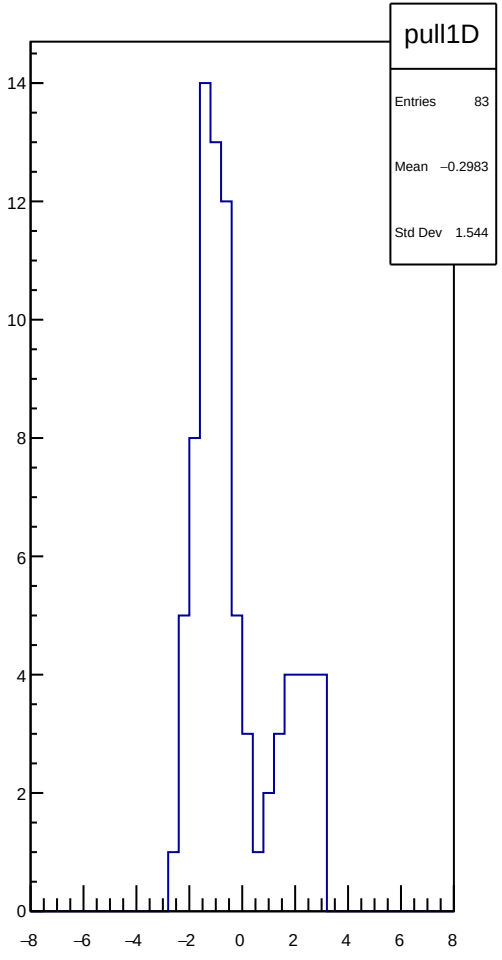

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.45 / 82
p0 5.679 ± 1.117
pull
Entries 83
Mean 202.8
Std Dev 0

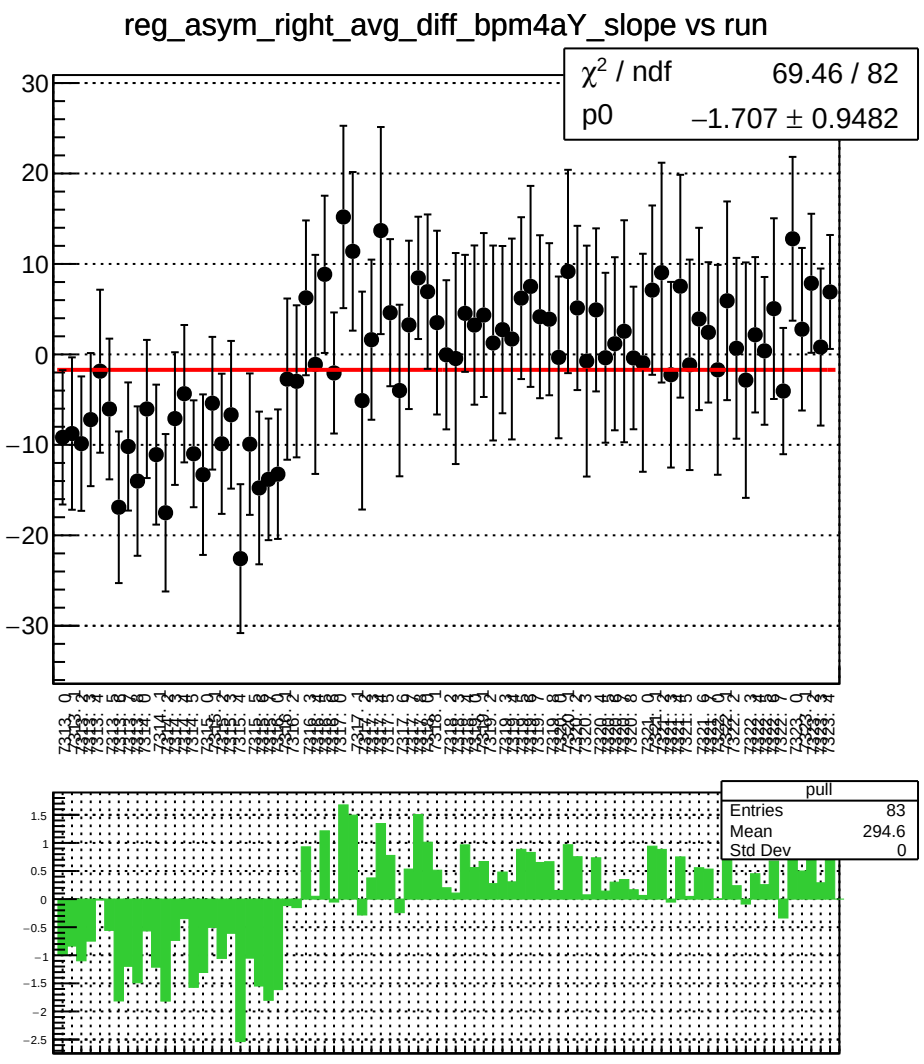

pull1D
Entries 83
Mean 0.01477
Std Dev 0.5536

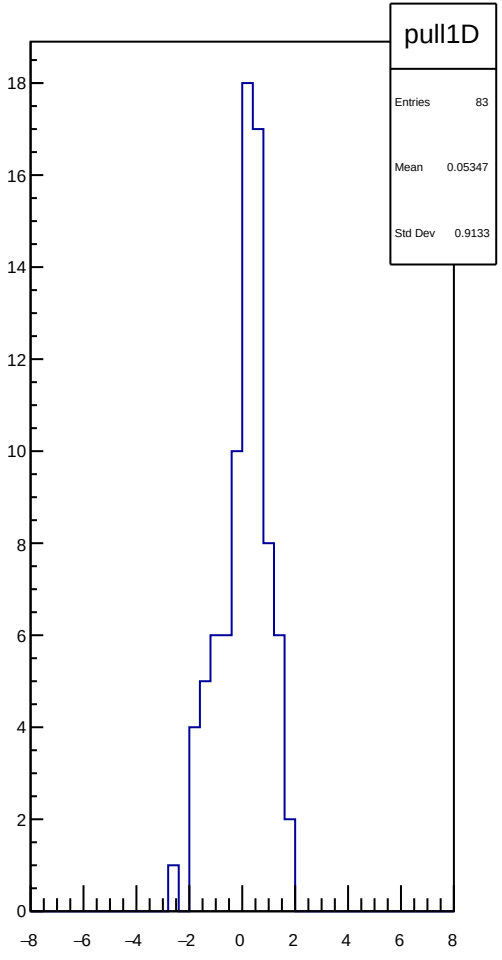

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.16 / 82
p0 8.465 ± 0.983
pull
Entries 83
Mean −224.4
Std Dev 0
pull1D
Entries 83
Mean 0.00546
Std Dev 0.4804

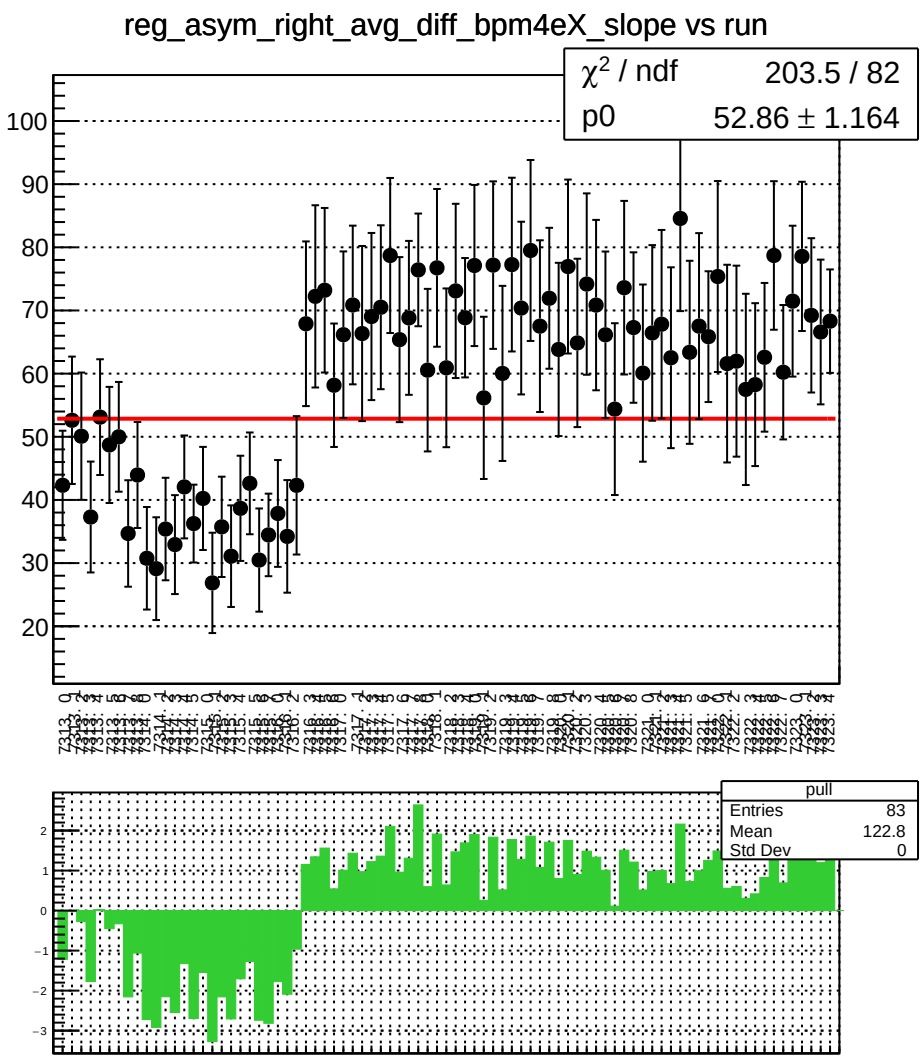

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 78.75 / 82
p0 −18.28 ± 0.04084
−17.5
−18
−18.5
−19
−19.5
pull
Entries 83
Mean −486.4
Std Dev 0
pull1D
Entries 83
Mean −0.02404
Std Dev 0.9738

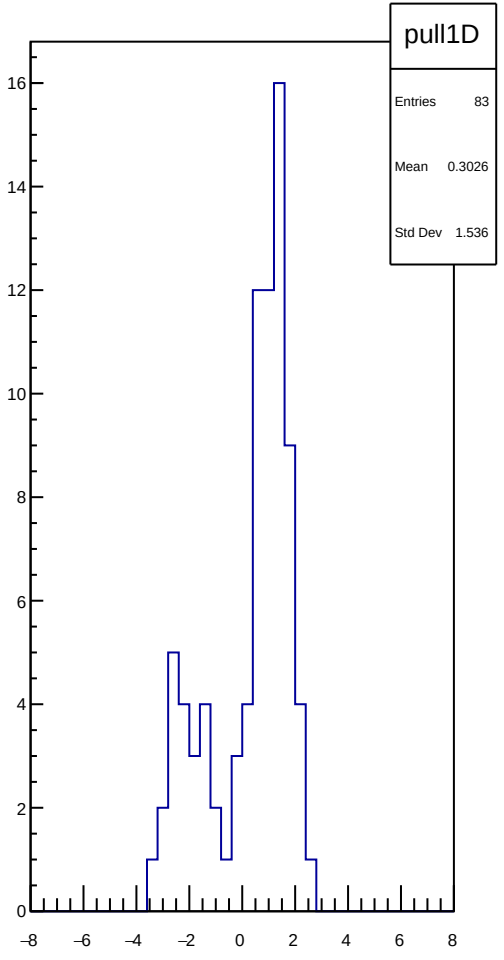

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 205.3 / 82
p0 −23.9 ± 1.172
pull
Entries 83
Mean 124.4
Std Dev 0

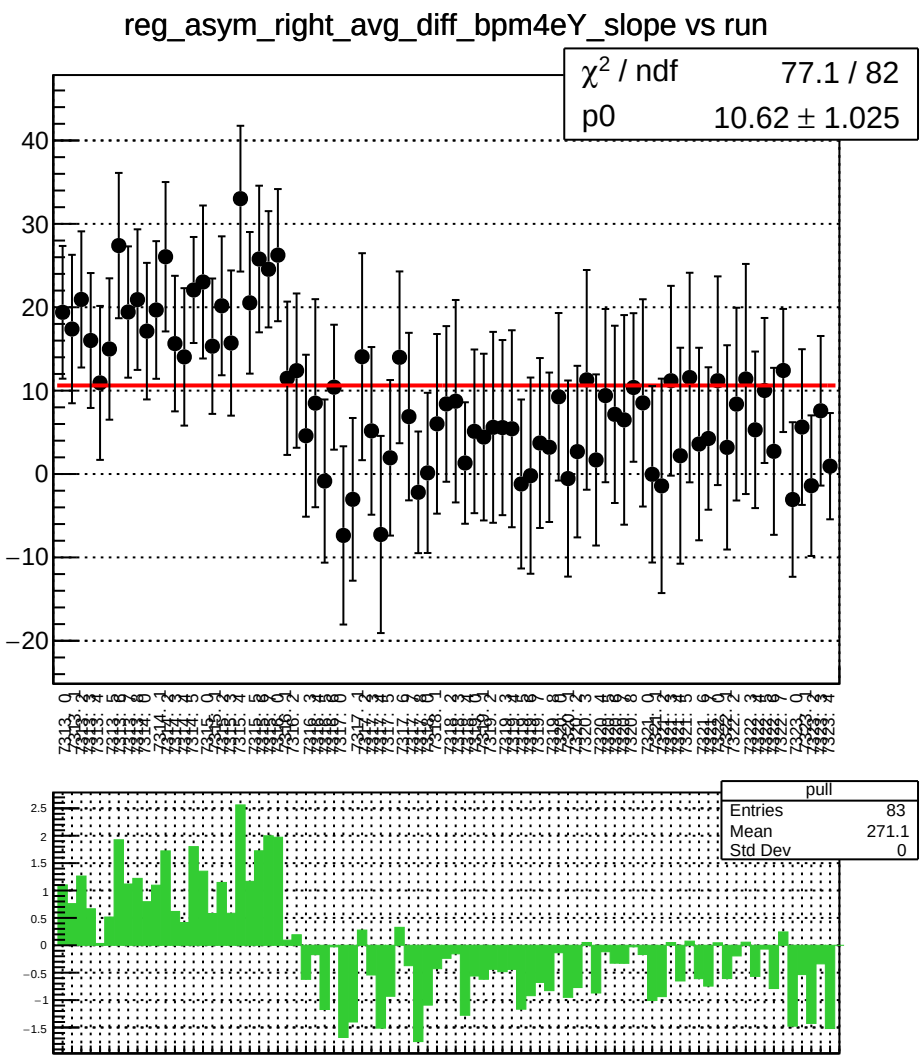

pull1D
Entries 83
Mean −0.2983
Std Dev 1.544

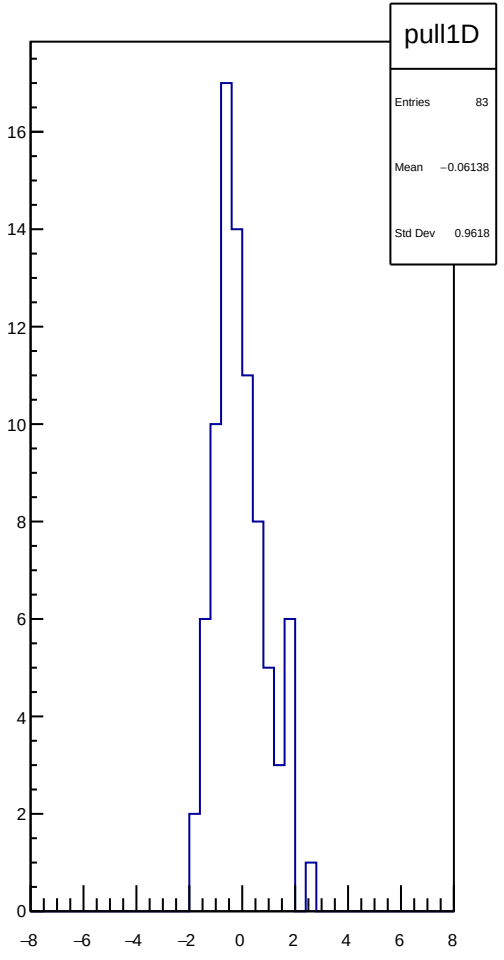

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.46 / 82
p0 −1.707 ± 0.9482
pull
Entries 83
Mean 294.6
Std Dev 0

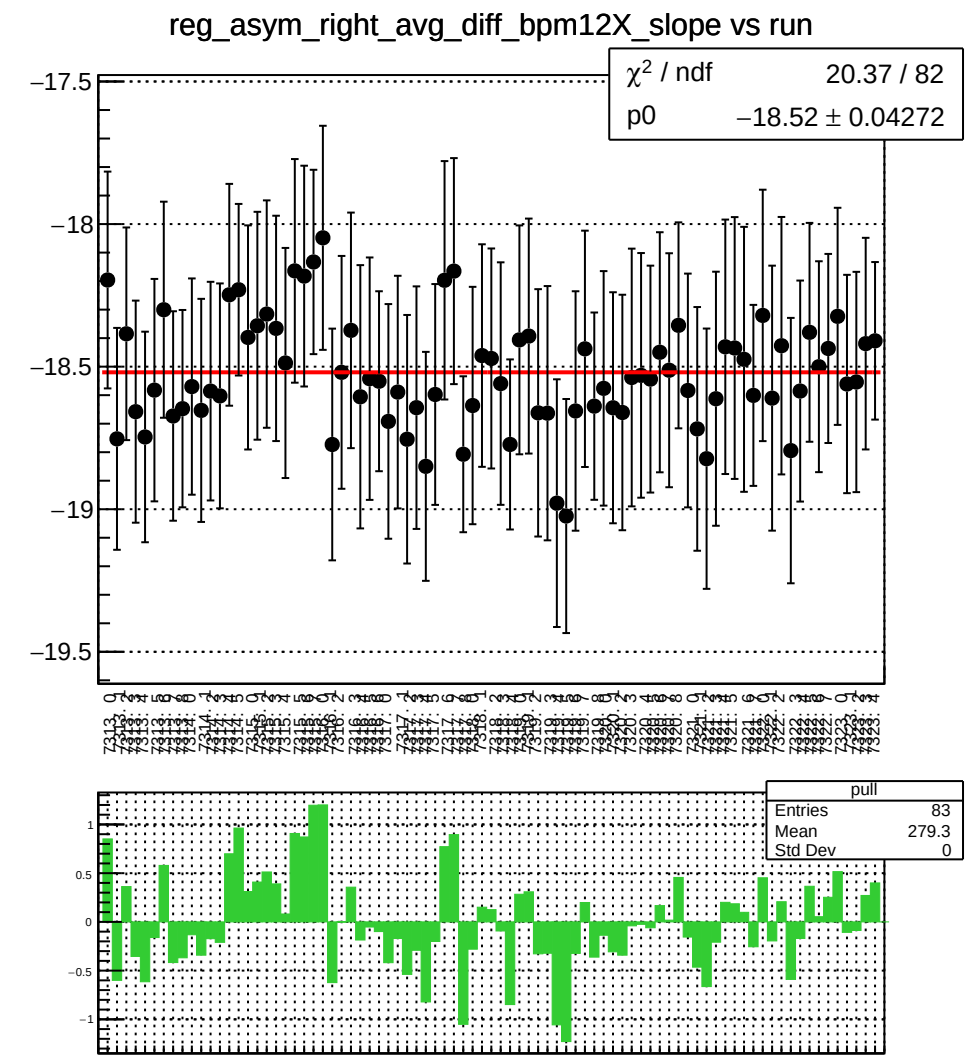

pull1D
Entries 83
Mean 0.05347
Std Dev 0.9133

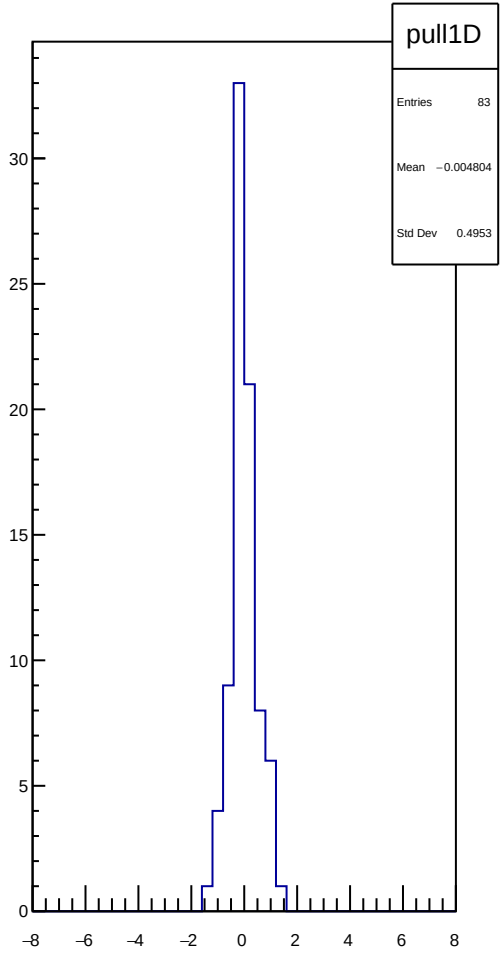

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 203.5 / 82
p0 52.86 ± 1.164
pull
Entries 83
Mean 122.8
Std Dev 0

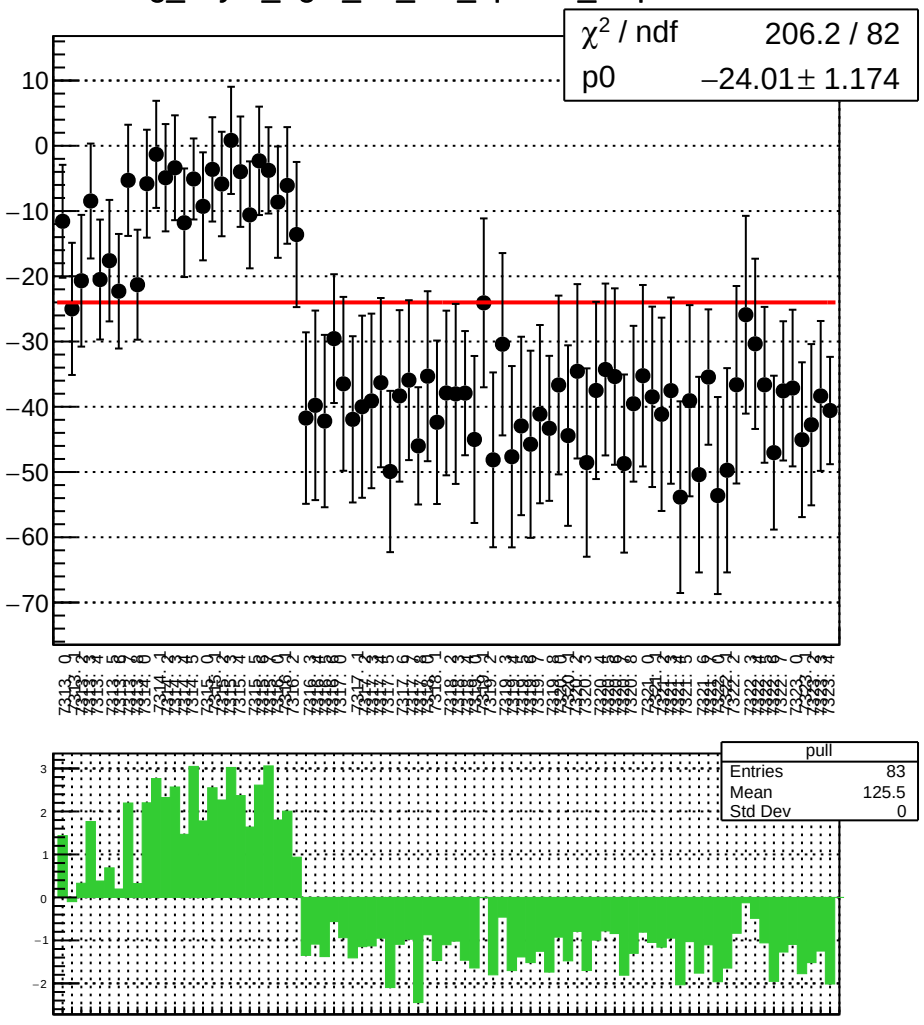

pull1D
Entries 83
Mean 0.3026
Std Dev 1.536

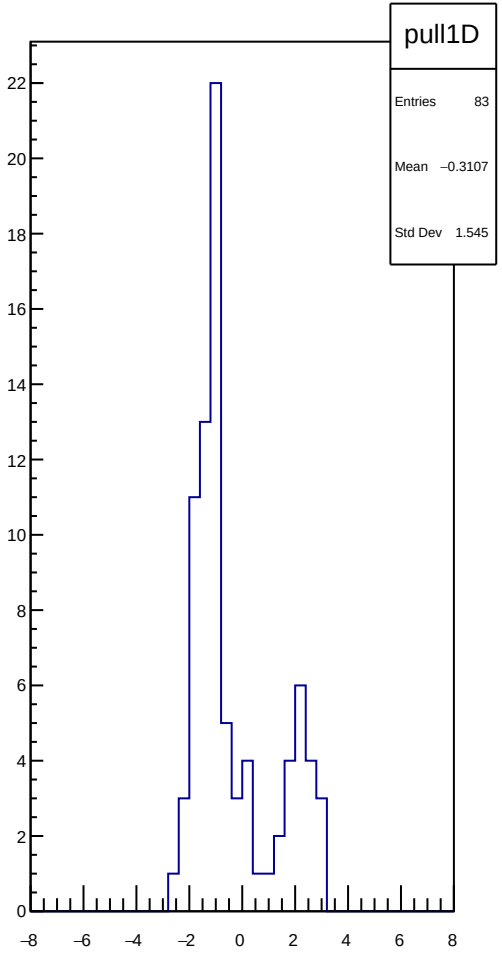

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.1 / 82
p0 10.62 ± 1.025
pull
Entries 83
Mean 271.1
Std Dev 0

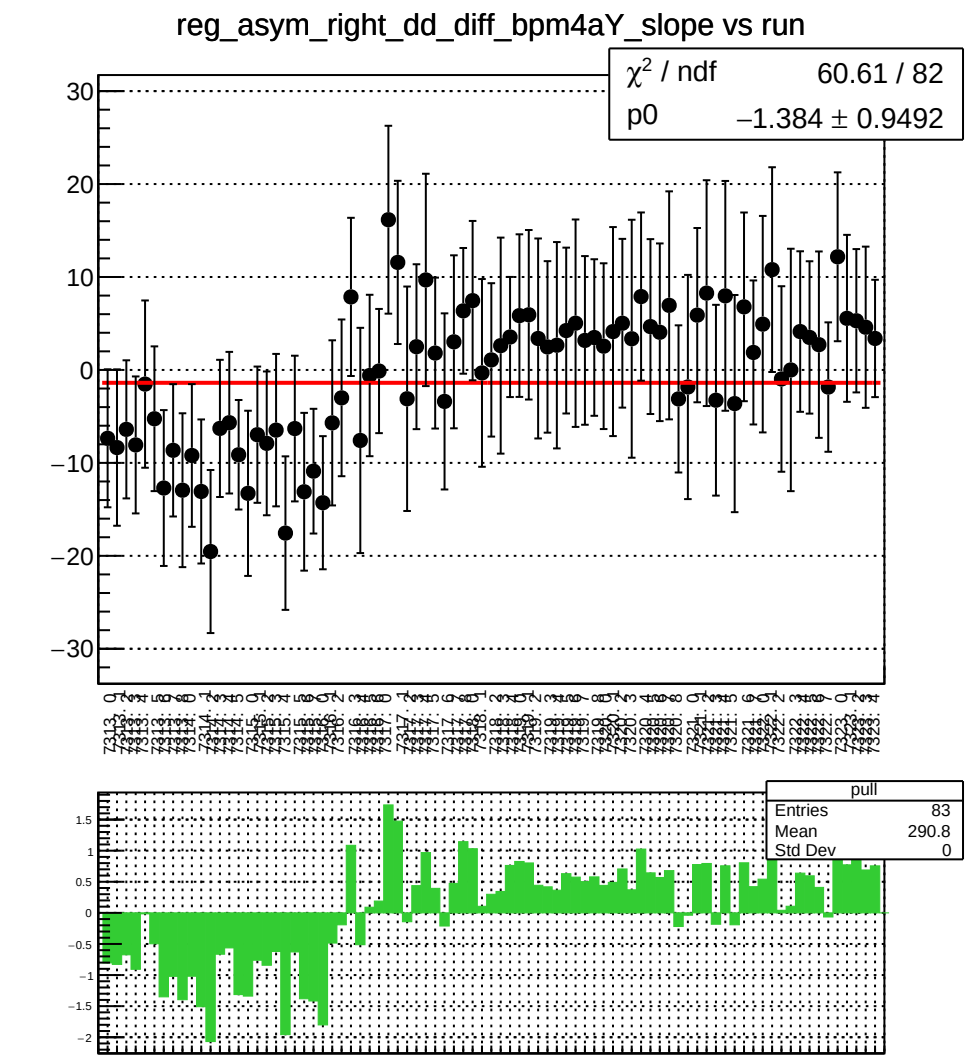

pull1D
Entries 83
Mean −0.06138
Std Dev 0.9618

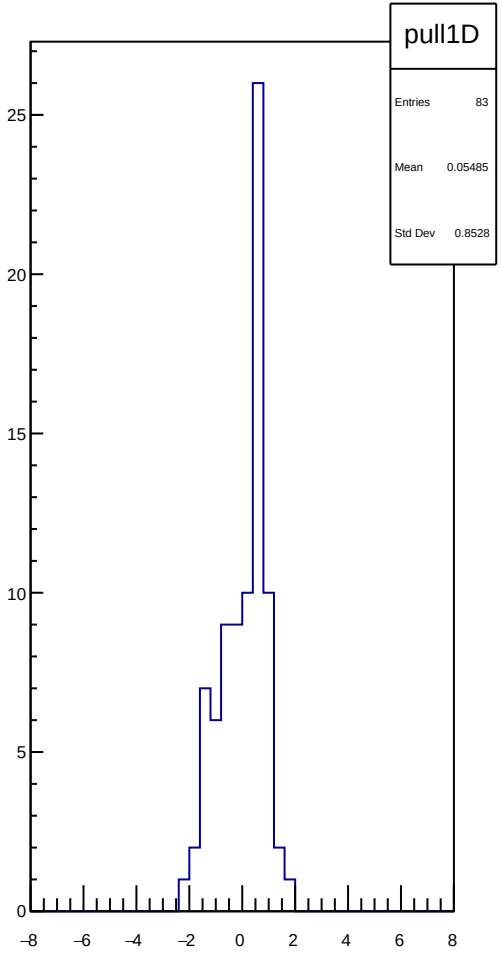

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 20.37 / 82
p0 −18.52 ± 0.04272
−17.5
−18
−18.5
−19
−19.5
pull
Entries 83
Mean 279.3
Std Dev 0
1
0.5
0
−0.5
−1

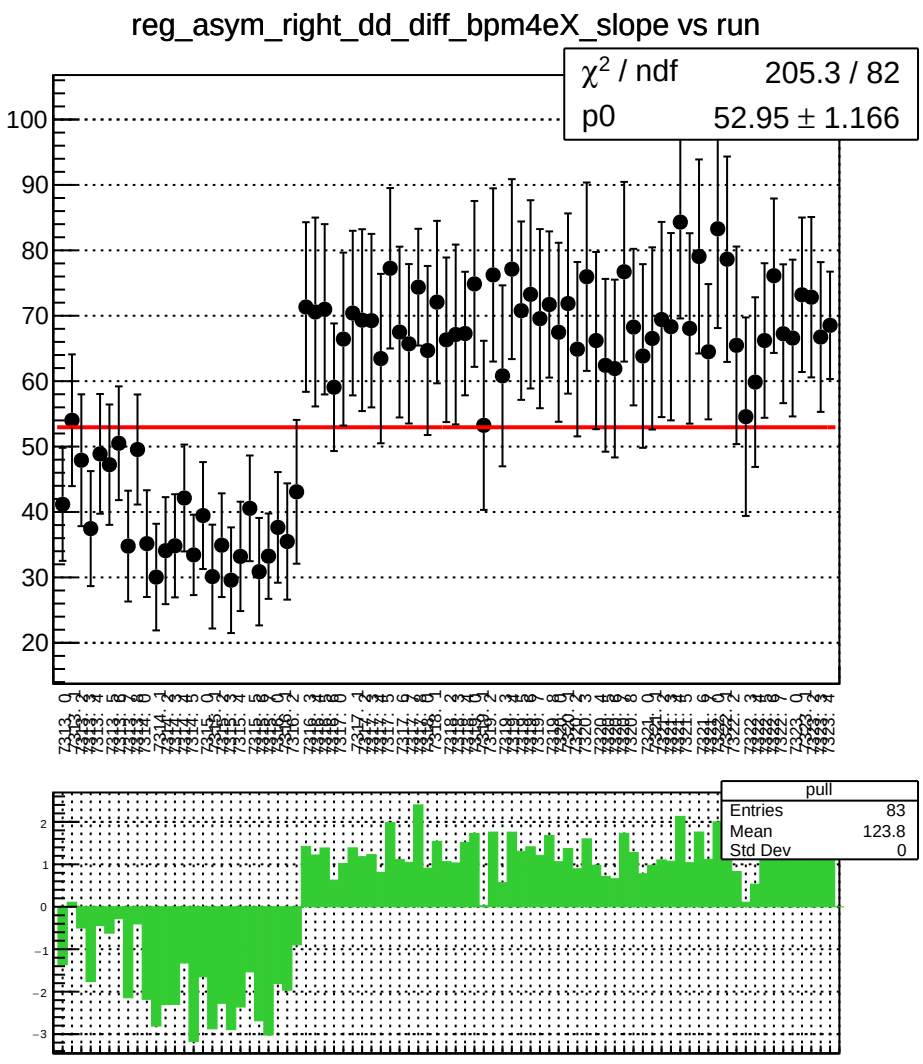

pull1D
Entries 83
Mean −0.004804
Std Dev 0.4953
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

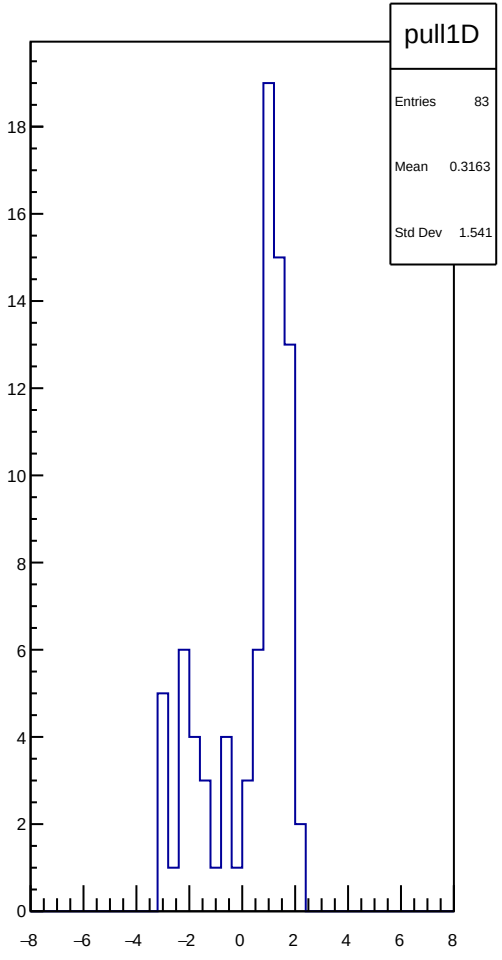

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 206.2 / 82
p0 −24.01± 1.174
pull
Entries 83
Mean 125.5
Std Dev 0

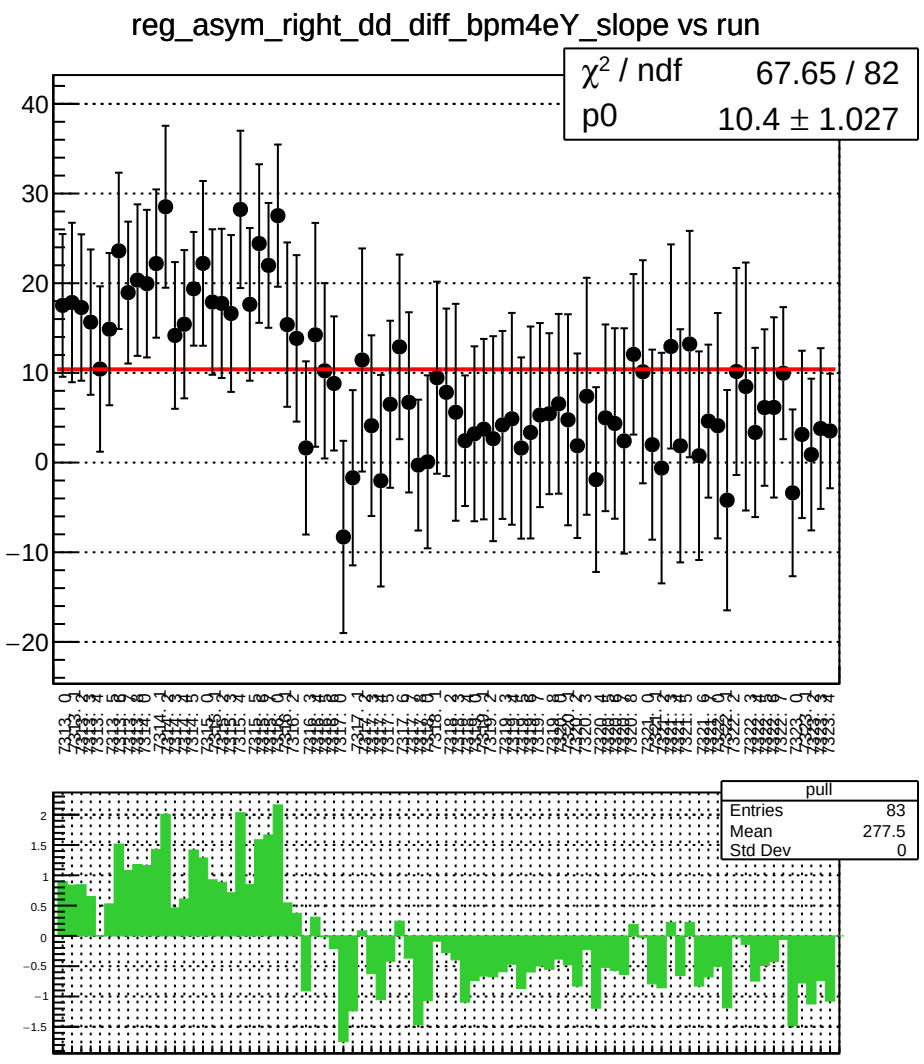

pull1D
Entries 83
Mean −0.3107
Std Dev 1.545

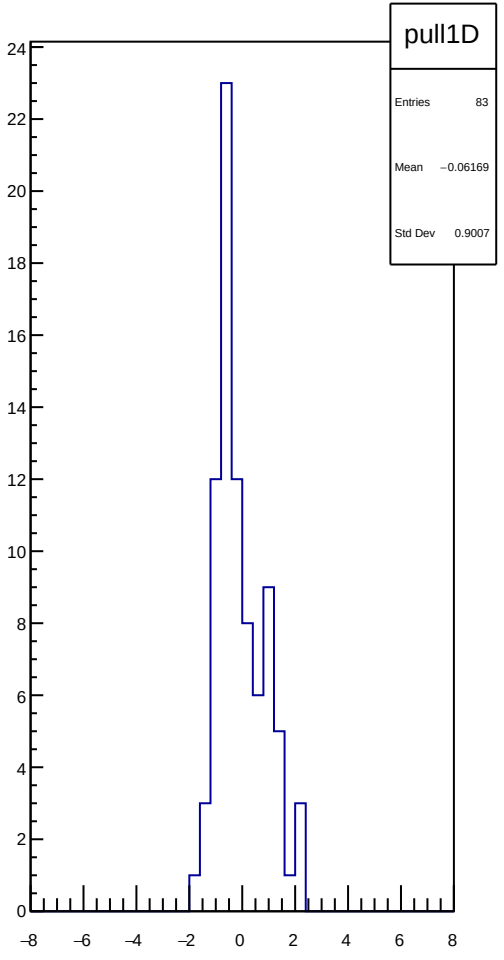

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.61 / 82
p0 −1.384 ± 0.9492
pull
Entries 83
Mean 290.8
Std Dev 0

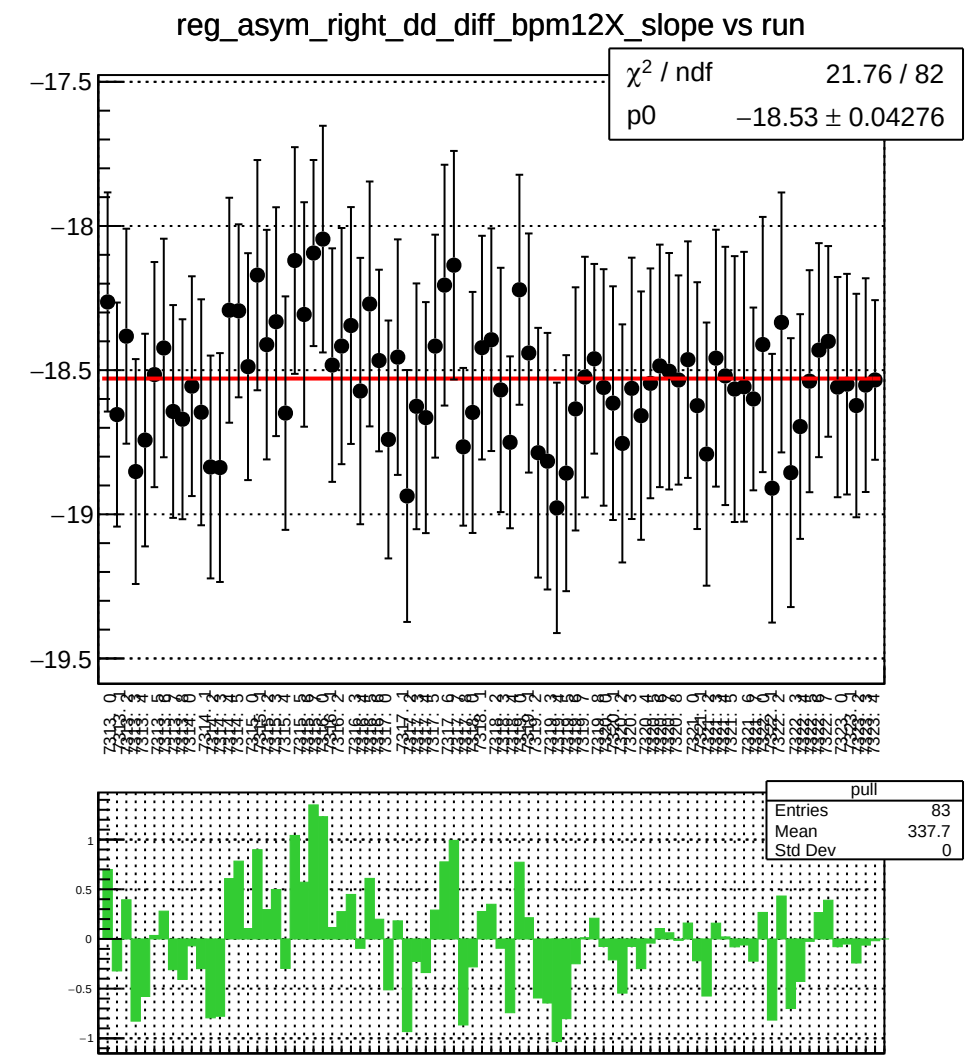

pull1D
Entries 83
Mean 0.05485
Std Dev 0.8528

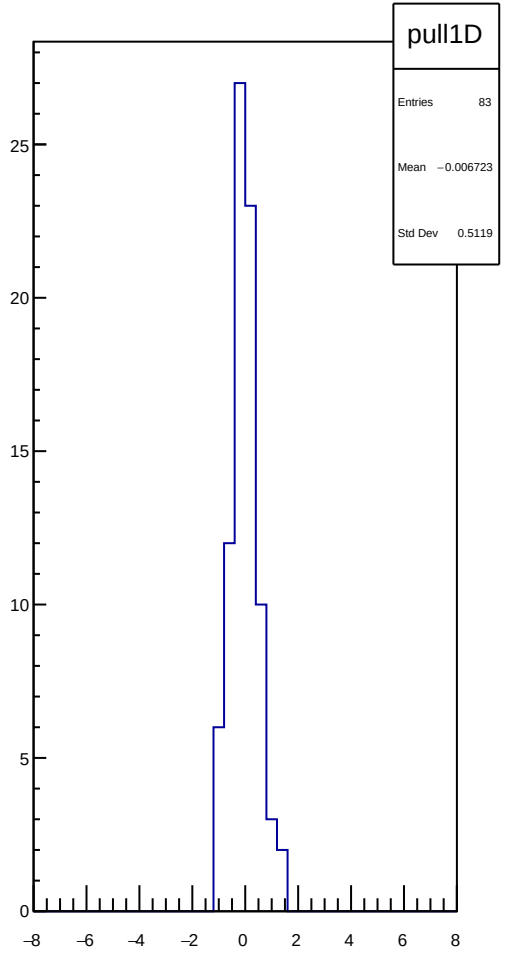

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 205.3 / 82
p0 52.95 ± 1.166
pull
Entries 83
Mean 123.8
Std Dev 0

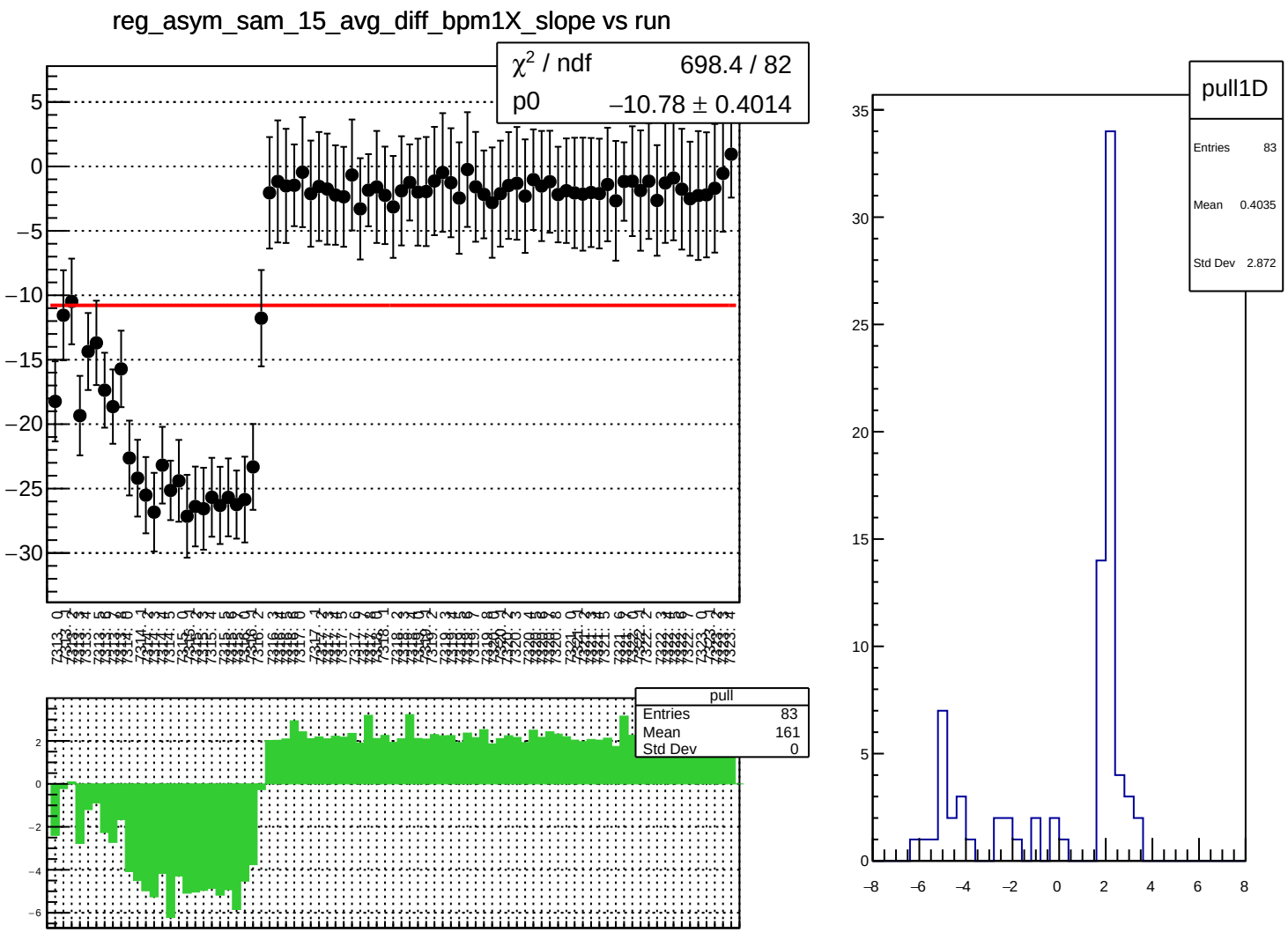

pull1D
Entries 83
Mean 0.3163
Std Dev 1.541

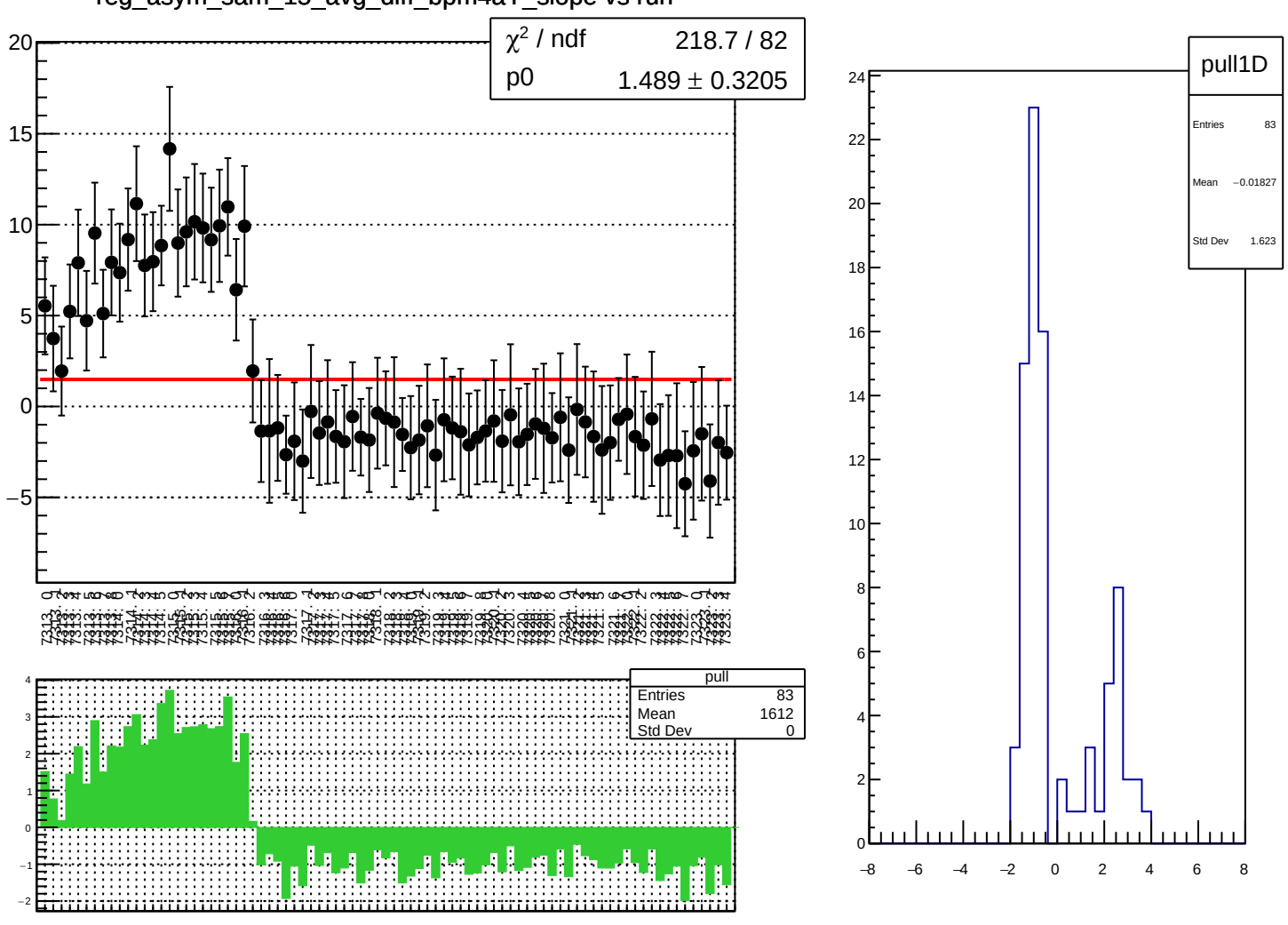

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.65 / 82
p0 10.4 ± 1.027
pull
Entries 83
Mean 277.5
Std Dev 0

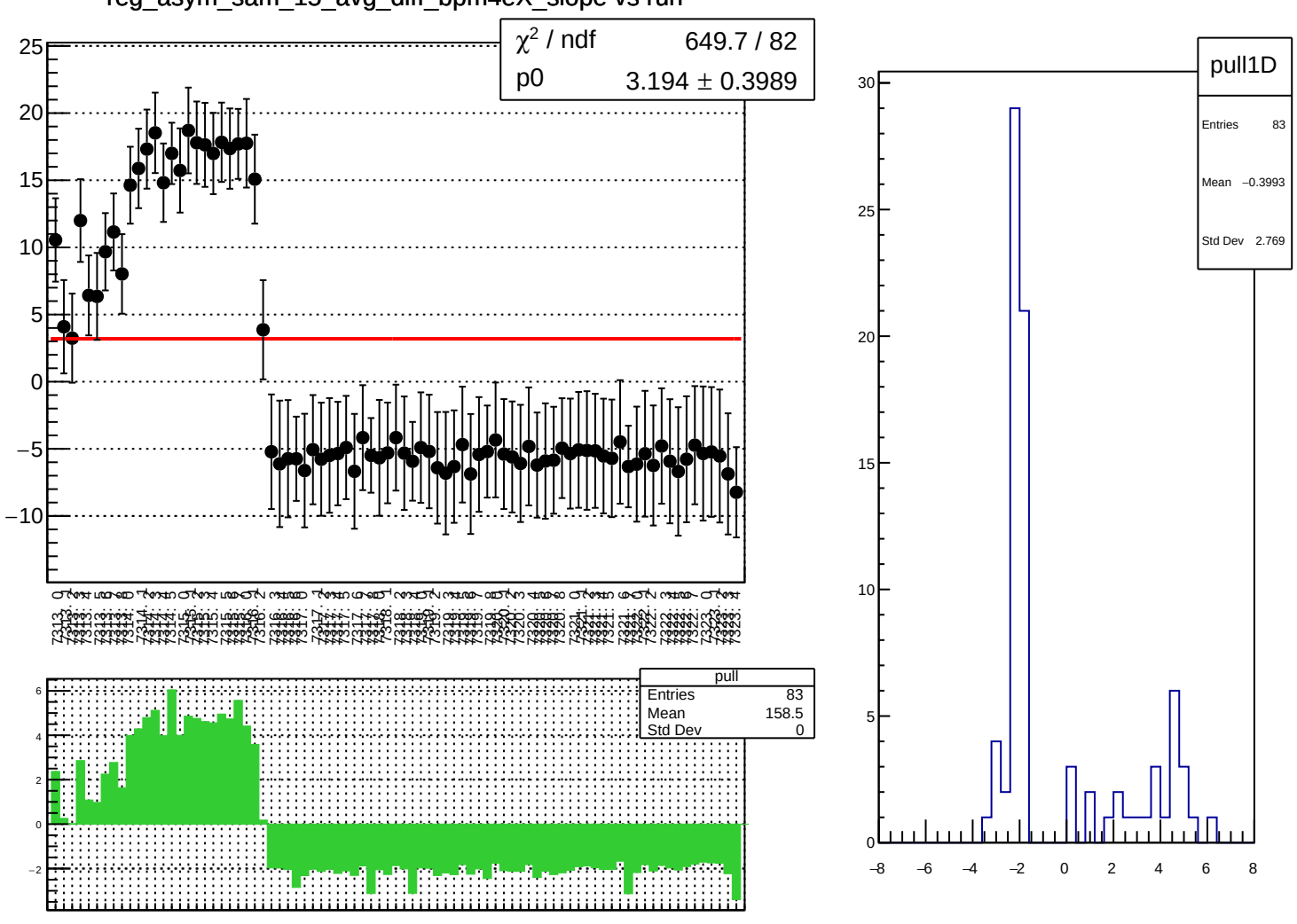

pull1D
Entries 83
Mean −0.06169
Std Dev 0.9007

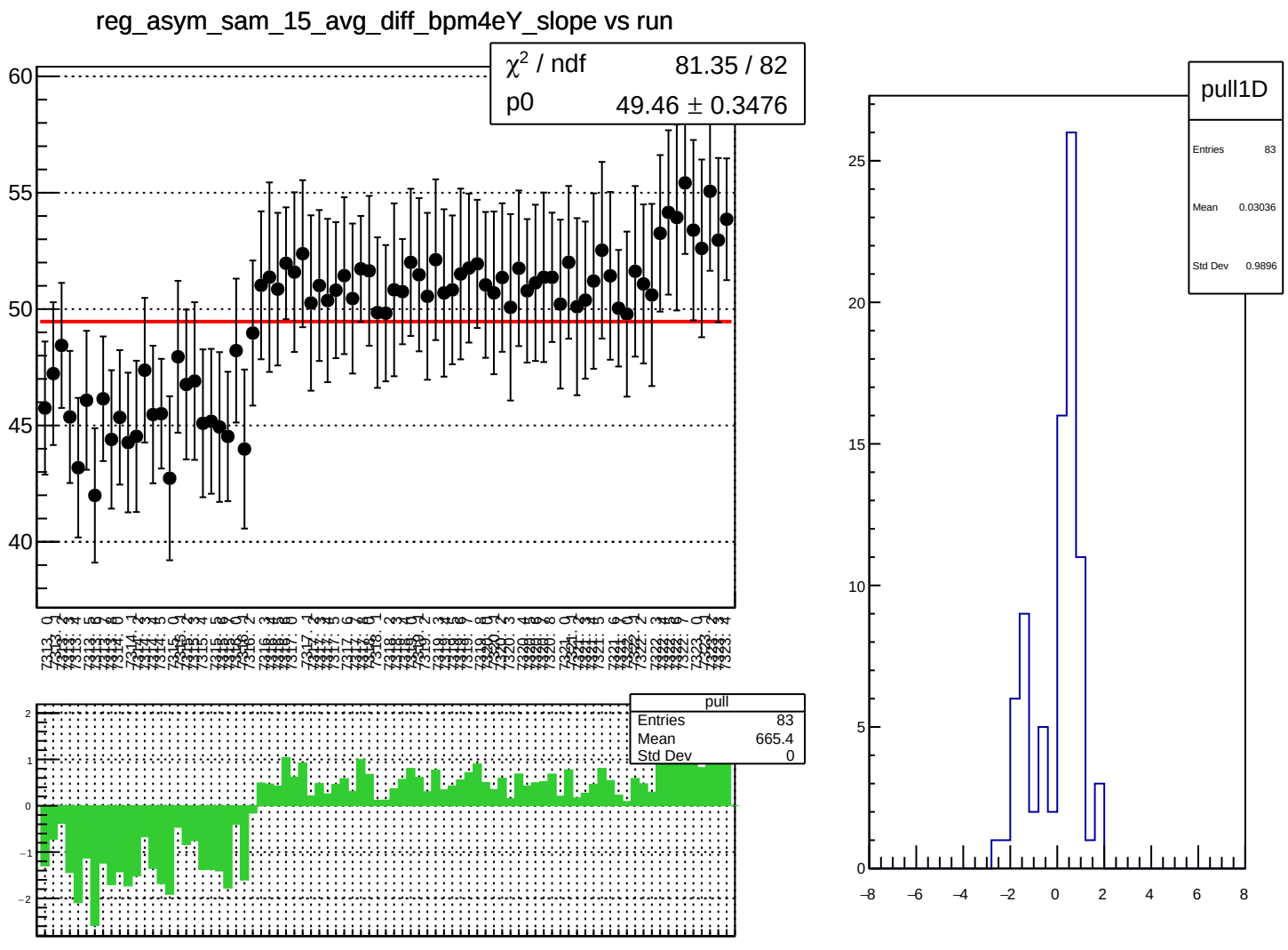

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 21.76 / 82
p0 −18.53 ± 0.04276
−17.5
−18
−18.5
−19
−19.5
pull
Entries 83
Mean 337.7
Std Dev 0
1
0.5
0
−0.5
−1

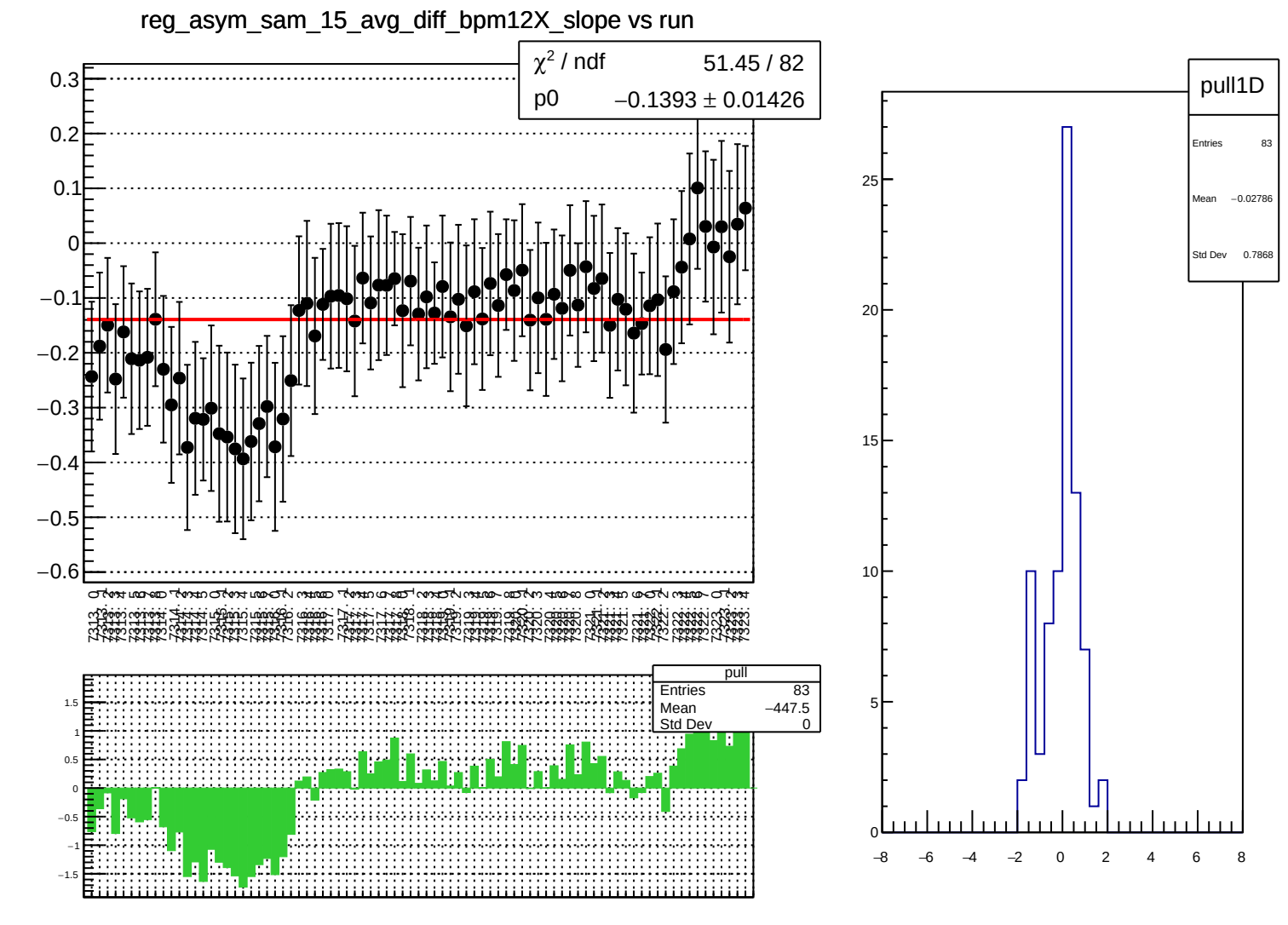

pull1D
Entries 83
Mean −0.006723
Std Dev 0.5119
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

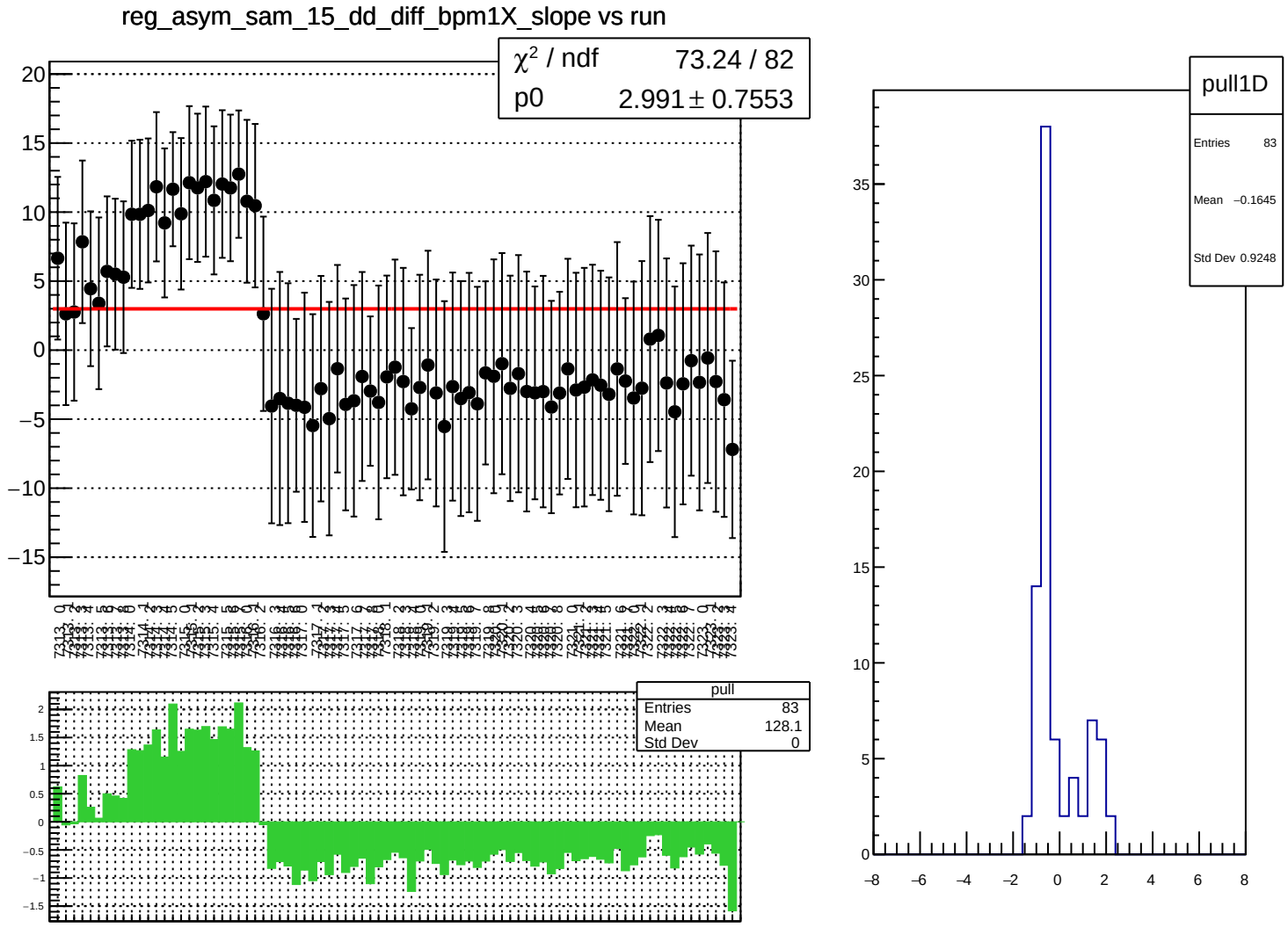

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 698.4 / 82
p0 −10.78 ± 0.4014
pull
Entries 83
Mean 161
Std Dev 0
pull1D
Entries 83
Mean 0.4035
Std Dev 2.872

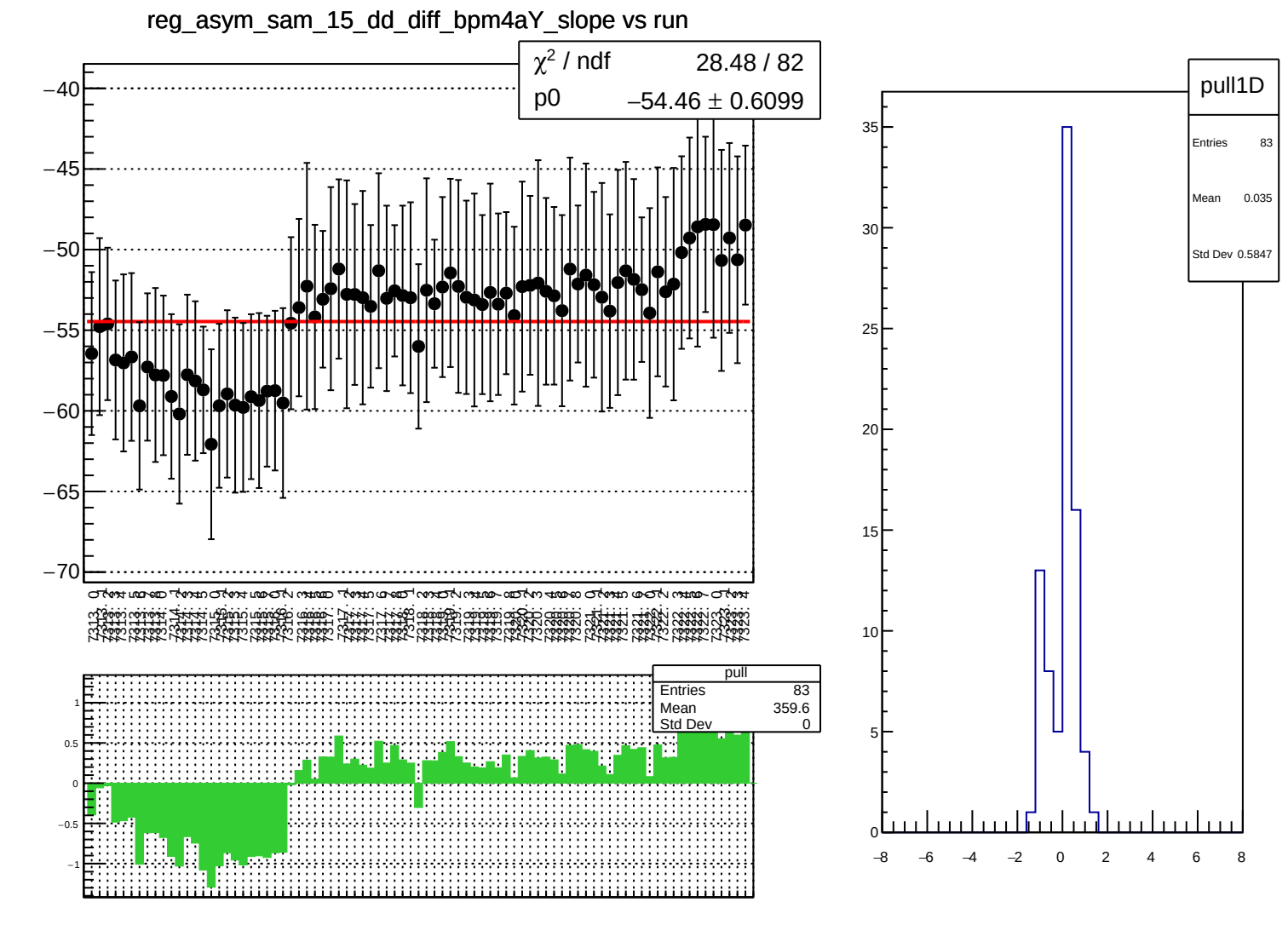

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 218.7 / 82
p0 1.489 ± 0.3205
pull
Entries 83
Mean 1612
Std Dev 0
pull1D
Entries 83
Mean −0.01827
Std Dev 1.623

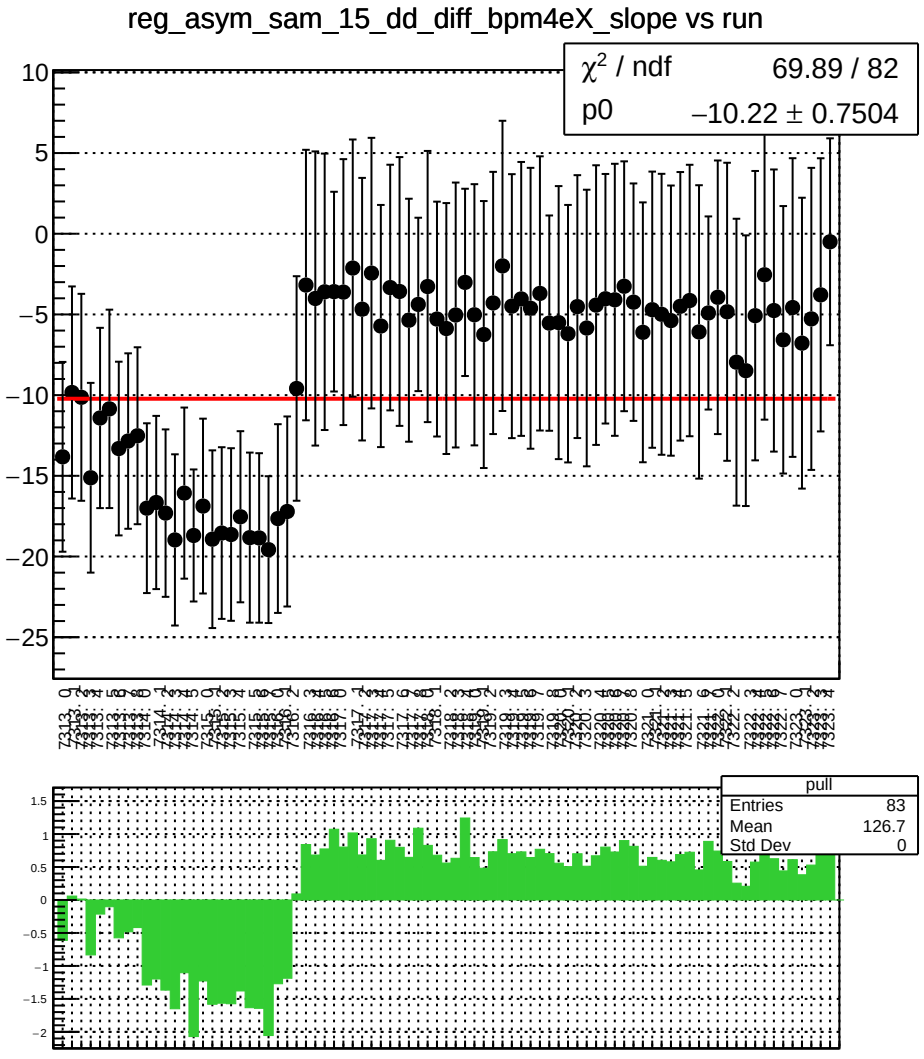

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 649.7 / 82
p0 3.194 ± 0.3989
pull
Entries 83
Mean 158.5
Std Dev 0
pull1D
Entries 83
Mean −0.3993
Std Dev 2.769

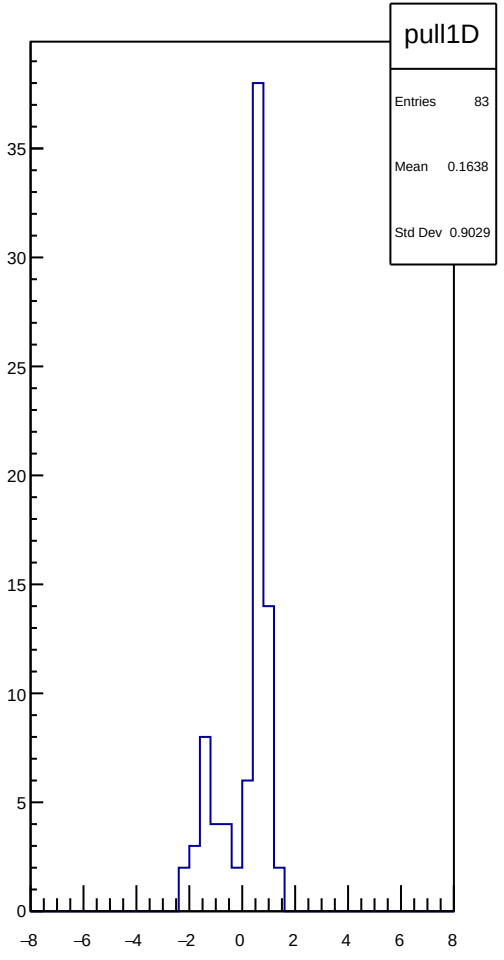

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.35 / 82
p0 49.46 ± 0.3476
60
55
50
45
40
pull
Entries 83
Mean 665.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.03036
Std Dev 0.9896
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

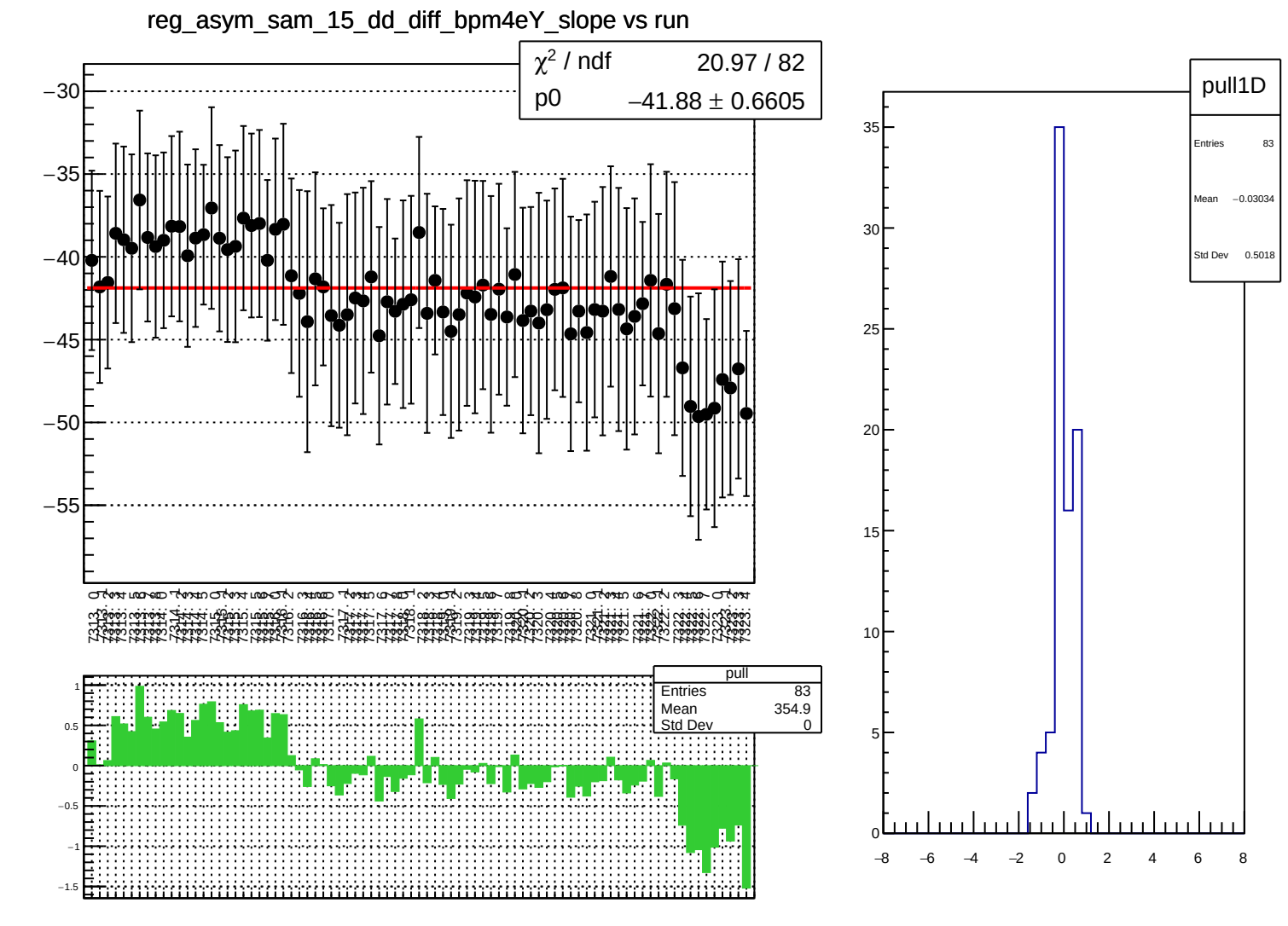

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 51.45 / 82
p0 −0.1393 ± 0.01426
pull
Entries 83
Mean −447.5
Std Dev 0
pull1D
Entries 83
Mean −0.02786
Std Dev 0.7868

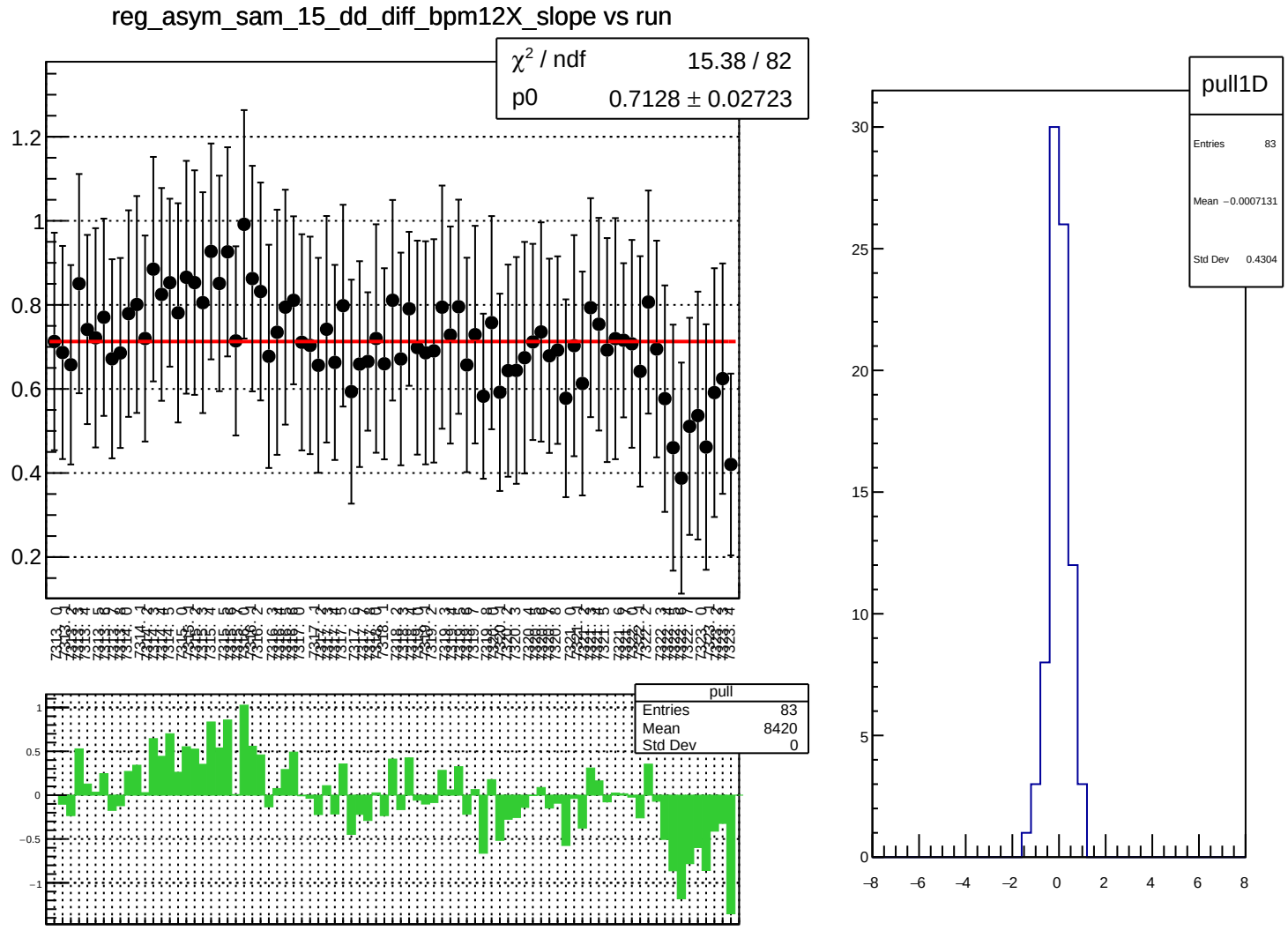

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 73.24 / 82
p0 2.991 ± 0.7553
pull
Entries 83
Mean 128.1
Std Dev 0
pull1D
Entries 83
Mean −0.1645
Std Dev 0.9248

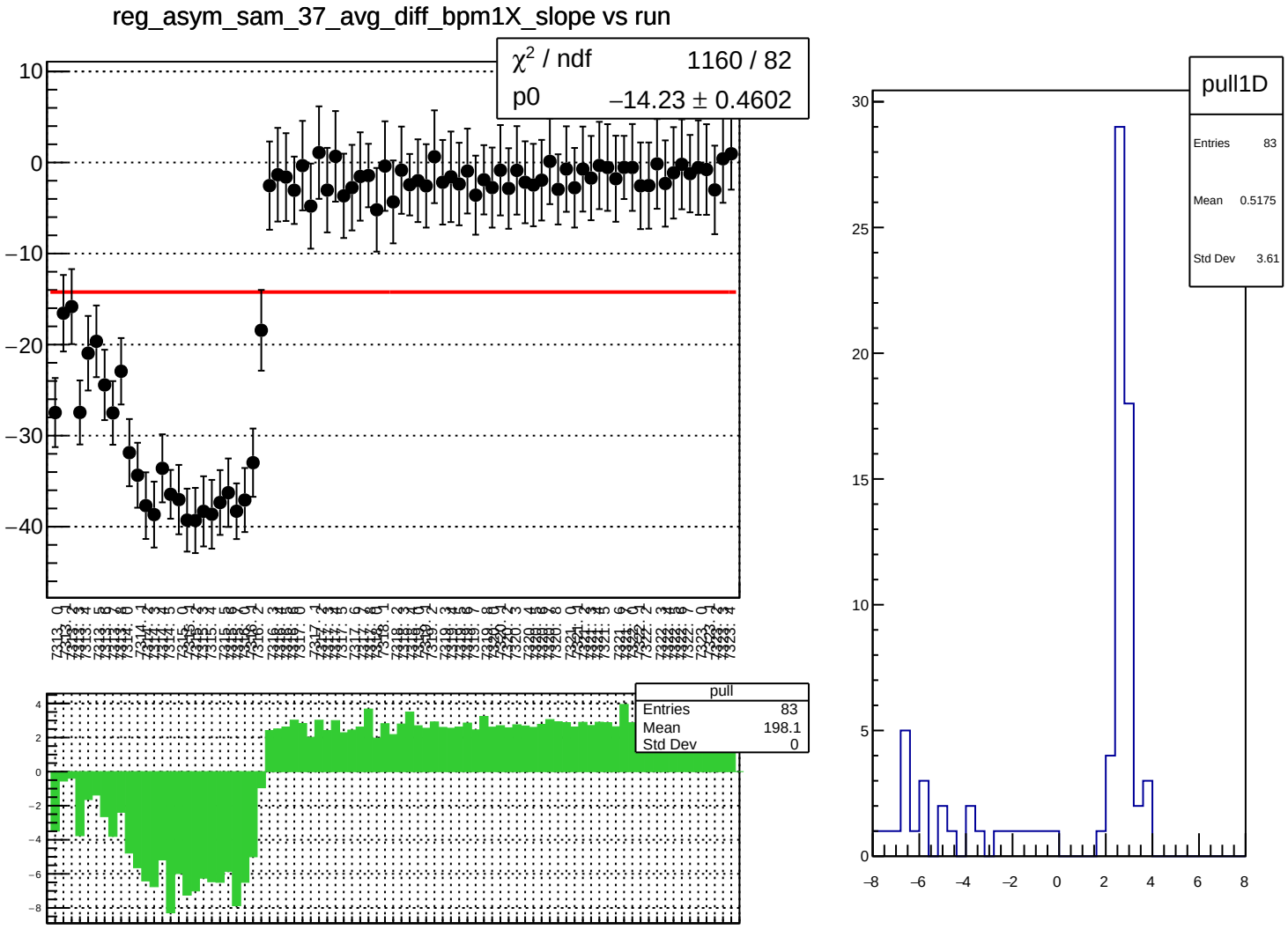

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.48 / 82
p0 −54.46 ± 0.6099
pull
Entries 83
Mean 359.6
Std Dev 0
pull1D
Entries 83
Mean 0.035
Std Dev 0.5847

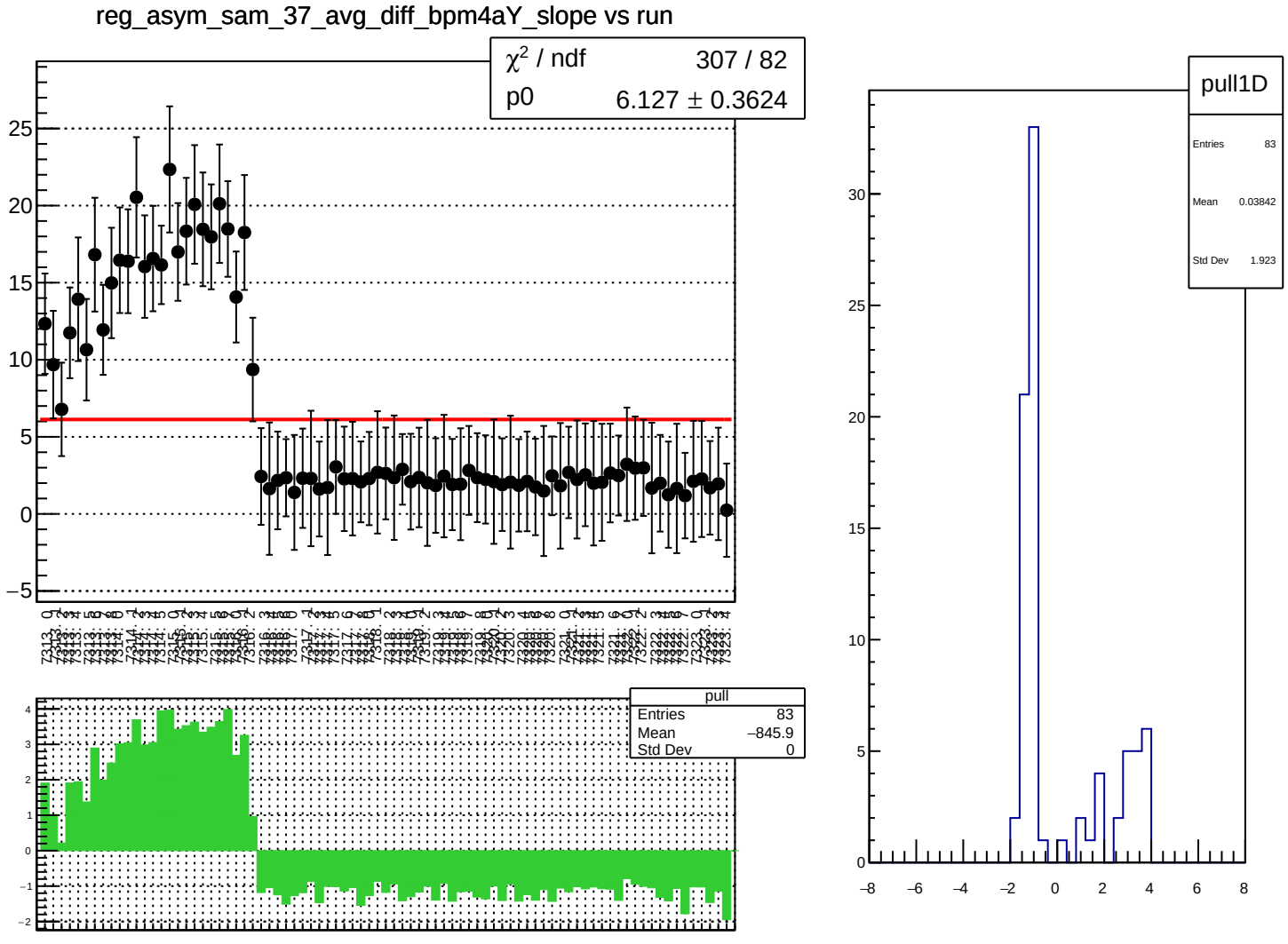

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.89 / 82
p0 −10.22 ± 0.7504
pull
Entries 83
Mean 126.7
Std Dev 0

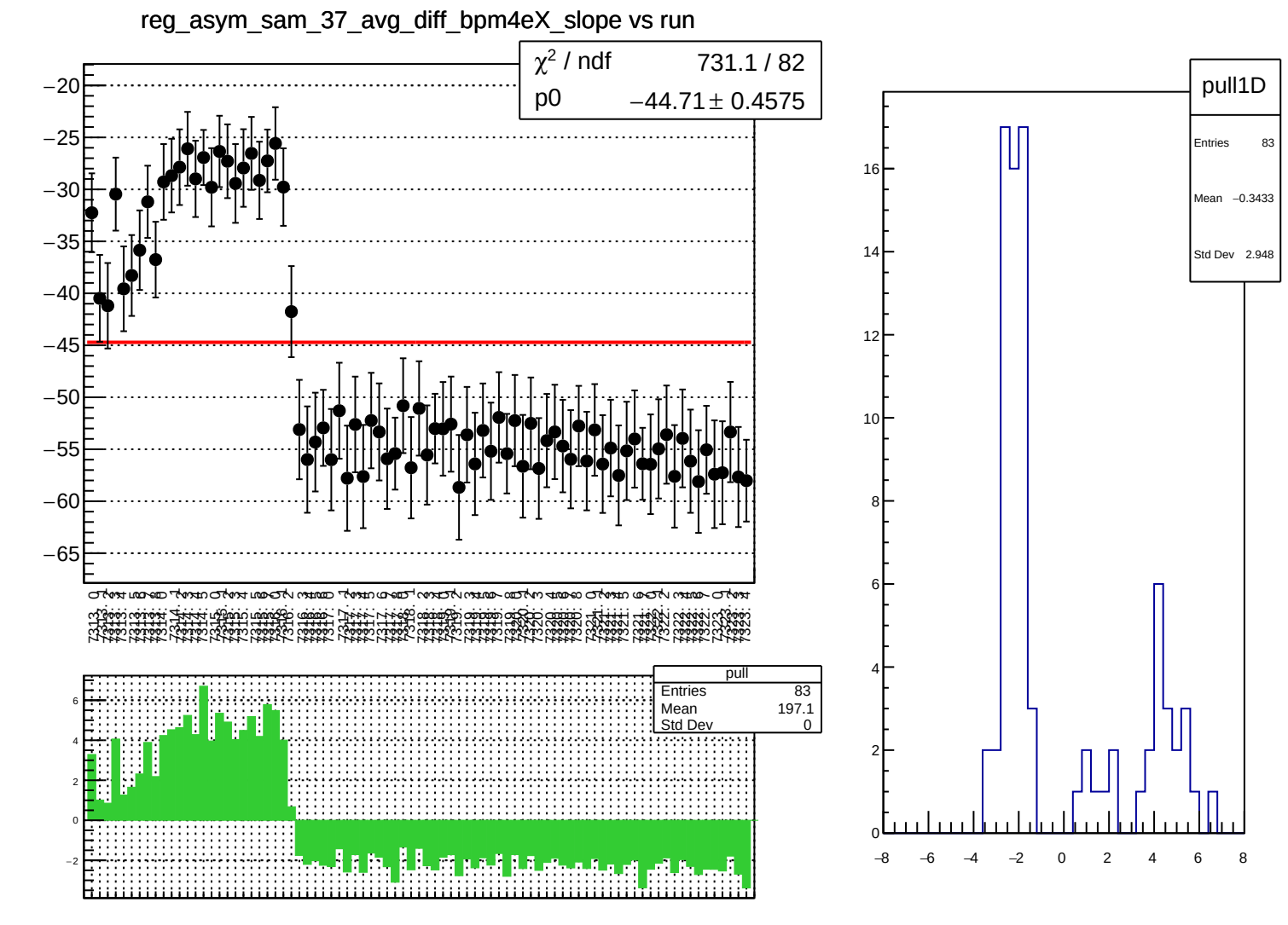

pull1D
Entries 83
Mean 0.1638
Std Dev 0.9029

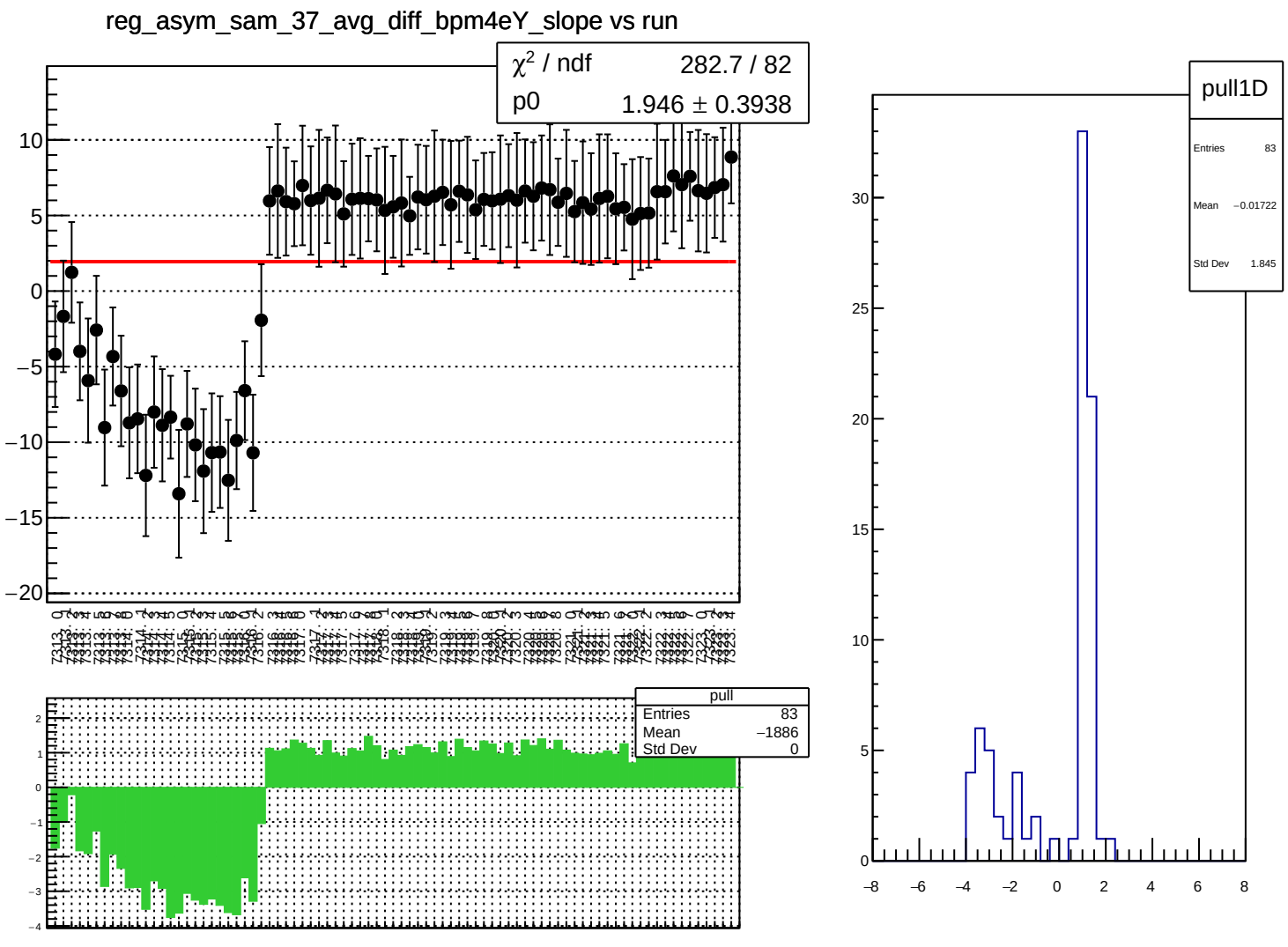

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.97 / 82
p0 −41.88 ± 0.6605
pull
Entries 83
Mean 354.9
Std Dev 0
pull1D
Entries 83
Mean −0.03034
Std Dev 0.5018

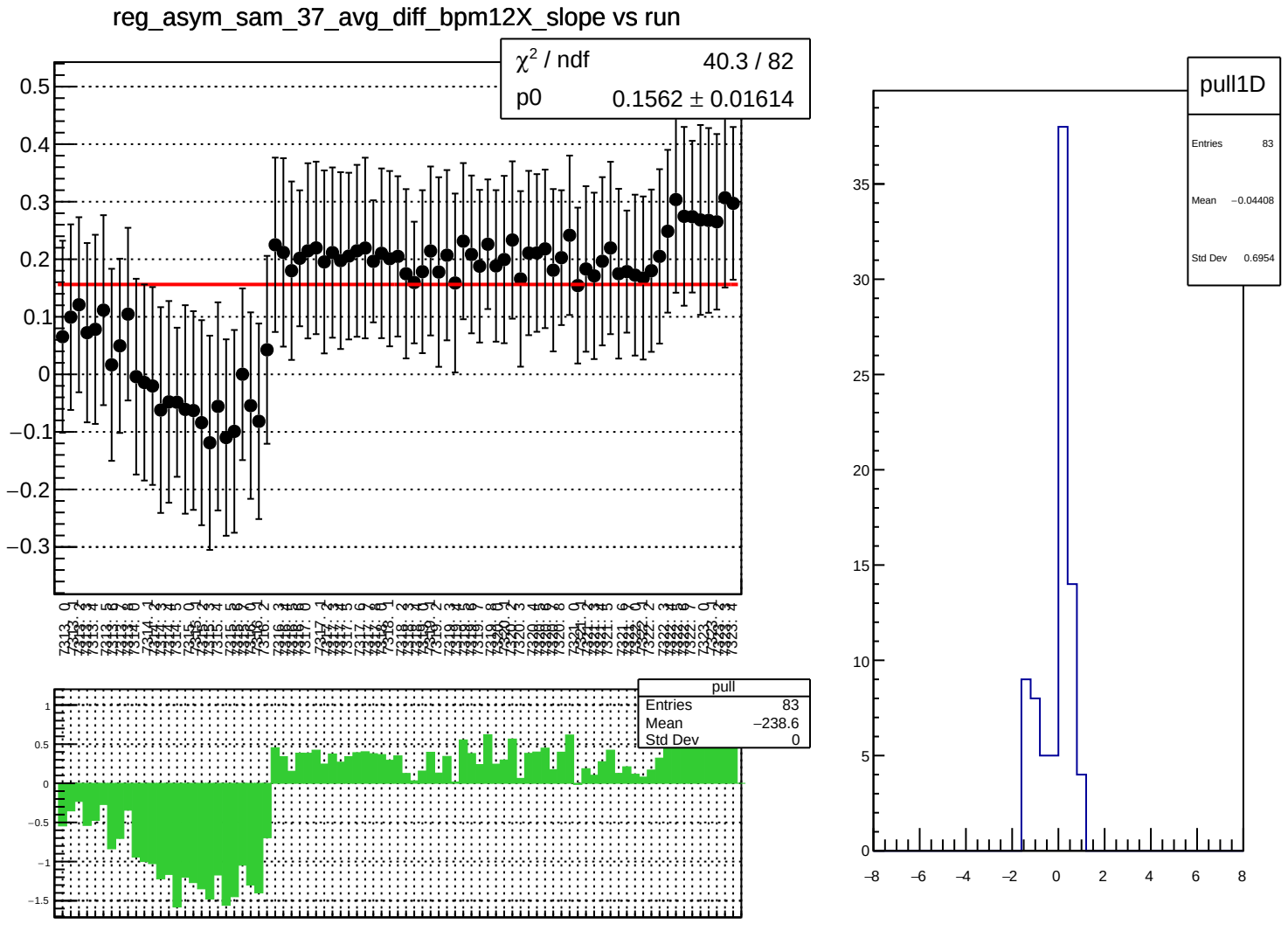

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 15.38 / 82
p0 0.7128 ± 0.02723
pull
Entries 83
Mean 8420
Std Dev 0
pull1D
Entries 83
Mean −0.0007131
Std Dev 0.4304

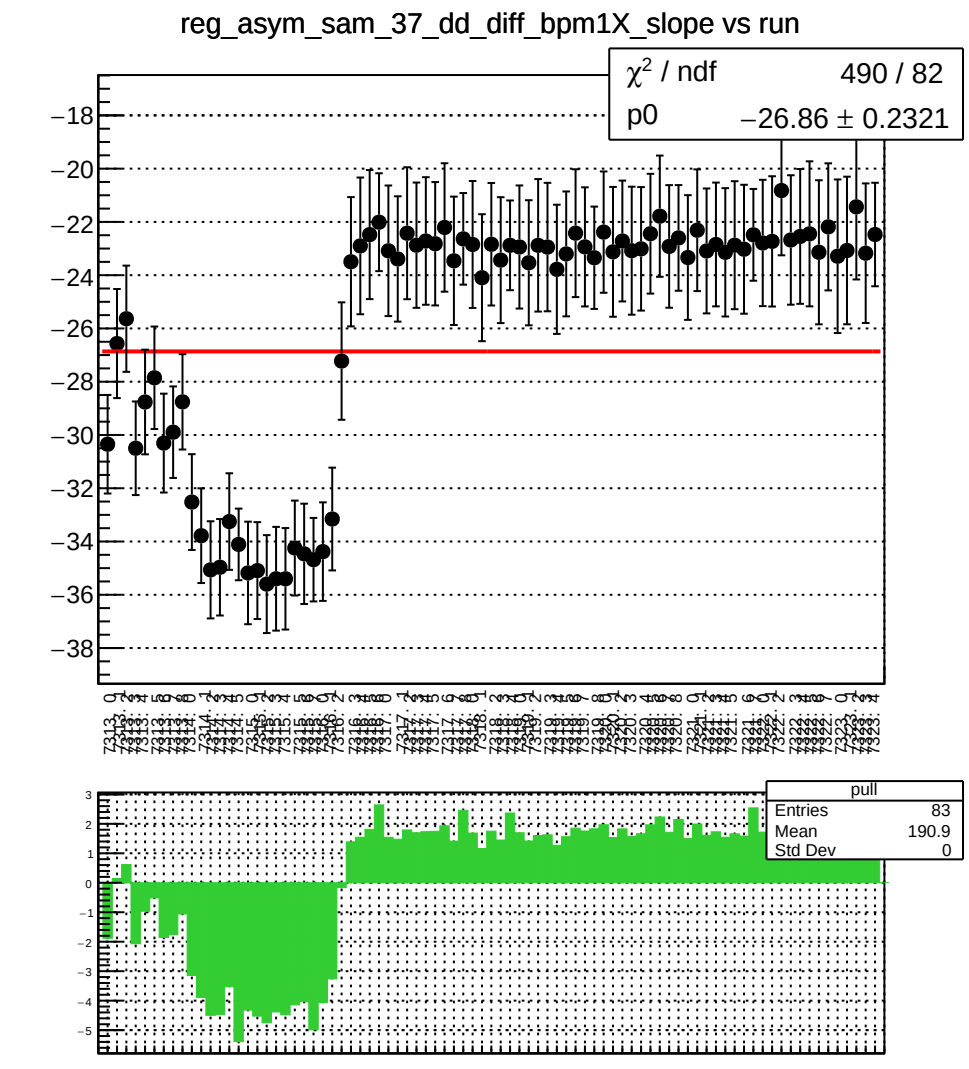

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1160 / 82
p0 −14.23 ± 0.4602
pull
Entries 83
Mean 198.1
Std Dev 0
pull1D
Entries 83
Mean 0.5175
Std Dev 3.61

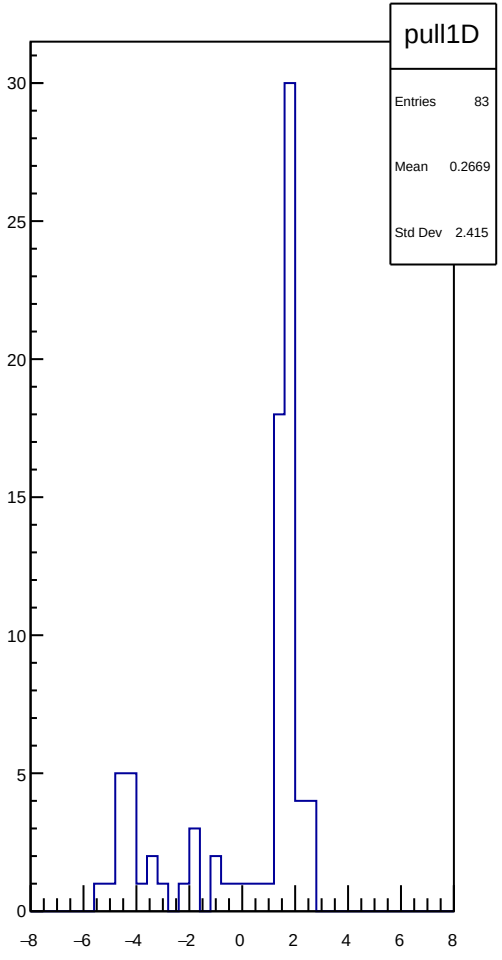

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 307 / 82
p0 6.127 ± 0.3624
pull
Entries 83
Mean −845.9
Std Dev 0
pull1D
Entries 83
Mean 0.03842
Std Dev 1.923

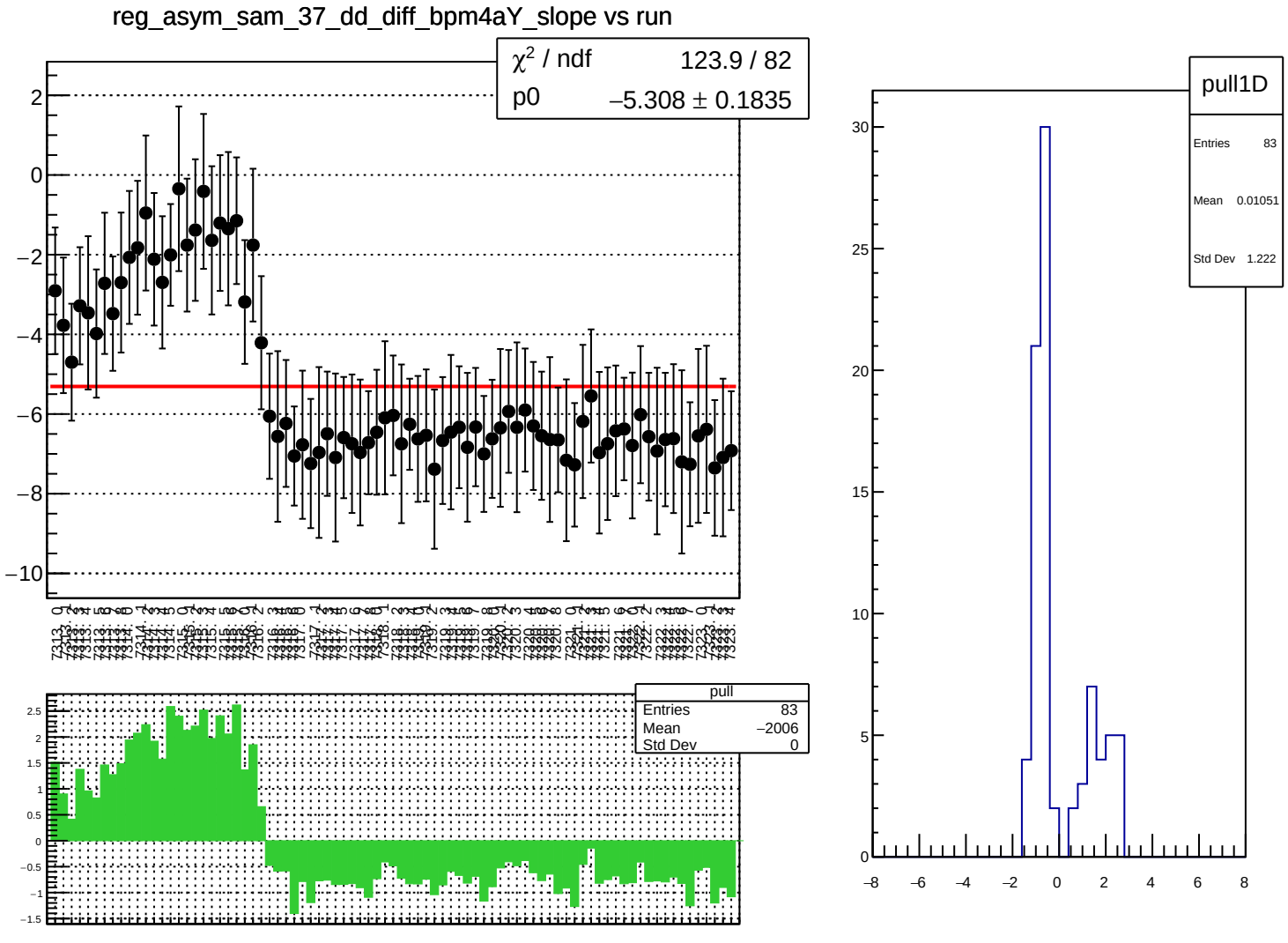

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 731.1 / 82
p0 −44.71 ± 0.4575
pull
Entries 83
Mean 197.1
Std Dev 0
pull1D
Entries 83
Mean −0.3433
Std Dev 2.948

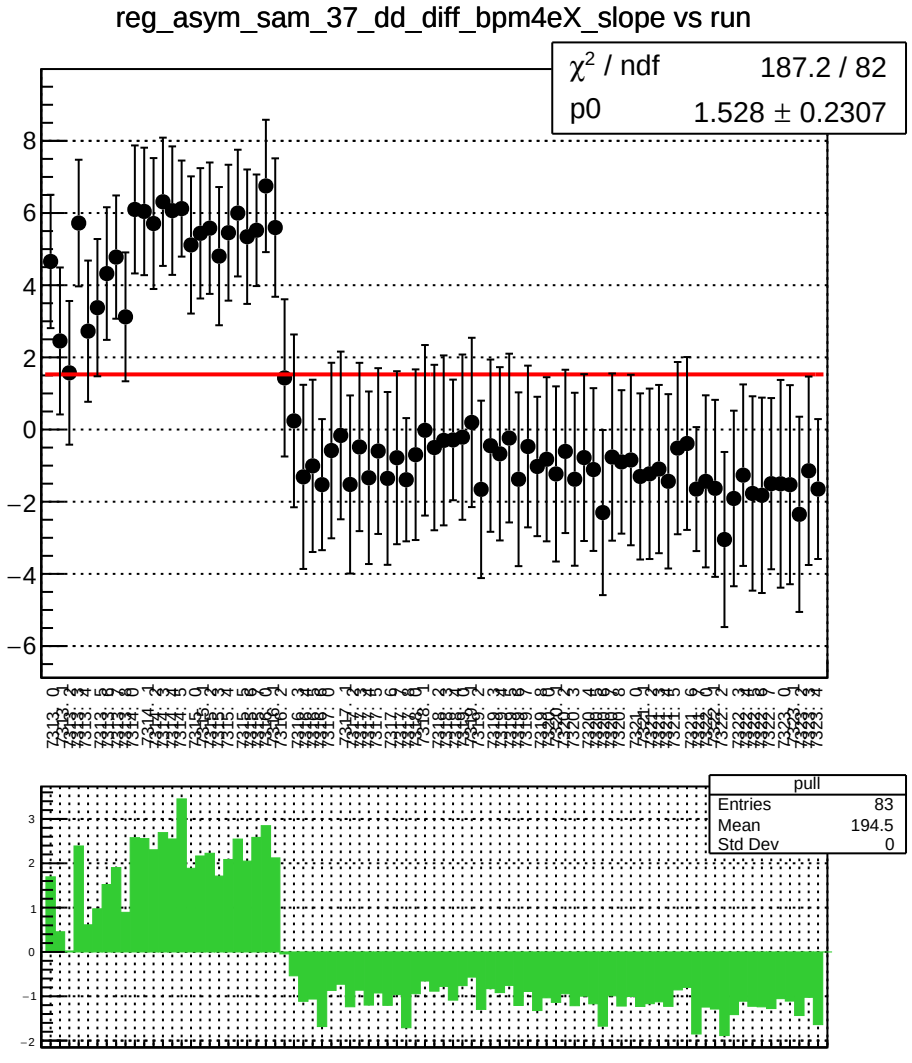

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 282.7 / 82
p0 1.946 ± 0.3938
pull
Entries 83
Mean −1886
Std Dev 0
pull1D
Entries 83
Mean −0.01722
Std Dev 1.845

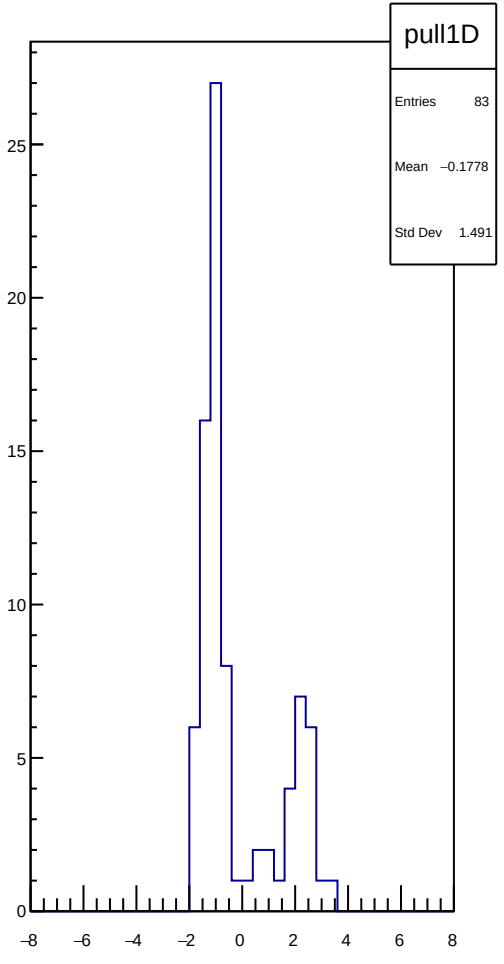

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 40.3 / 82
p0 0.1562 ± 0.01614
pull
Entries 83
Mean −238.6
Std Dev 0
pull1D
Entries 83
Mean −0.04408
Std Dev 0.6954

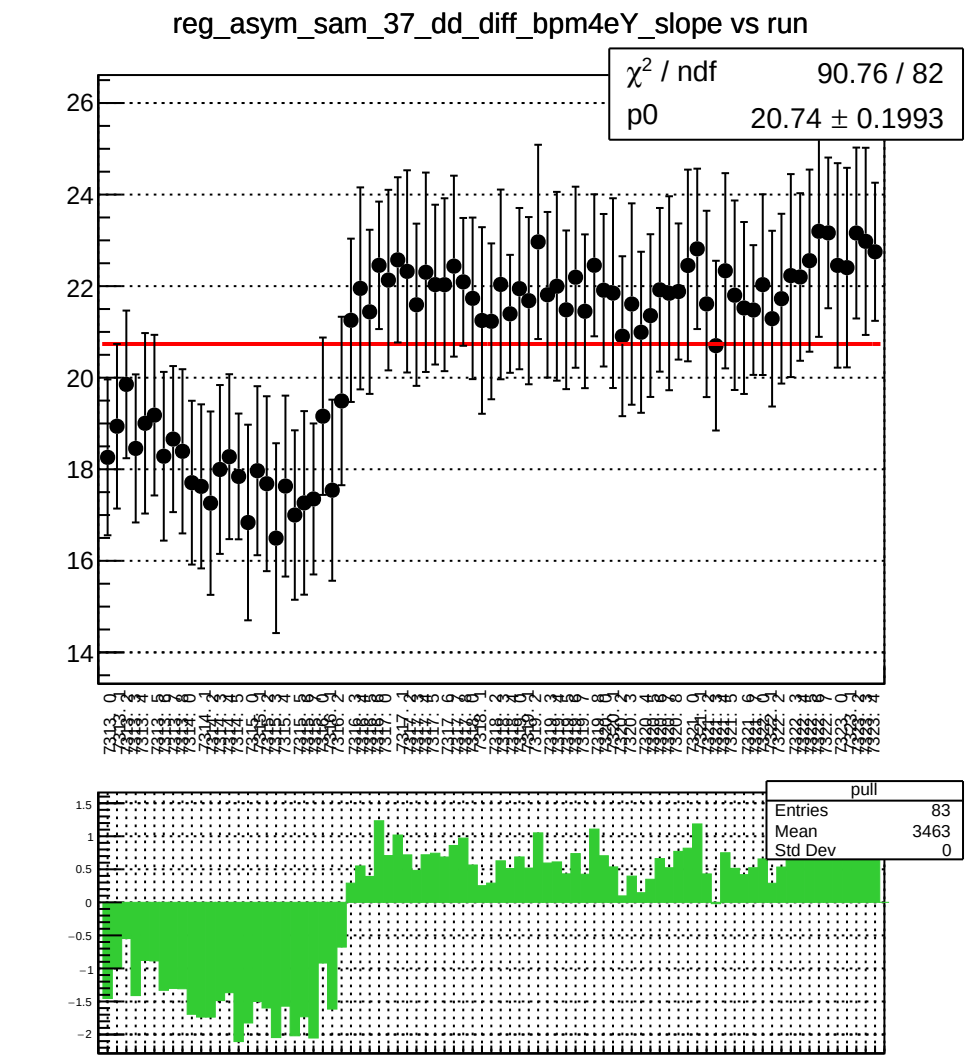

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 490 / 82
p0 −26.86 ± 0.2321
pull
Entries 83
Mean 190.9
Std Dev 0

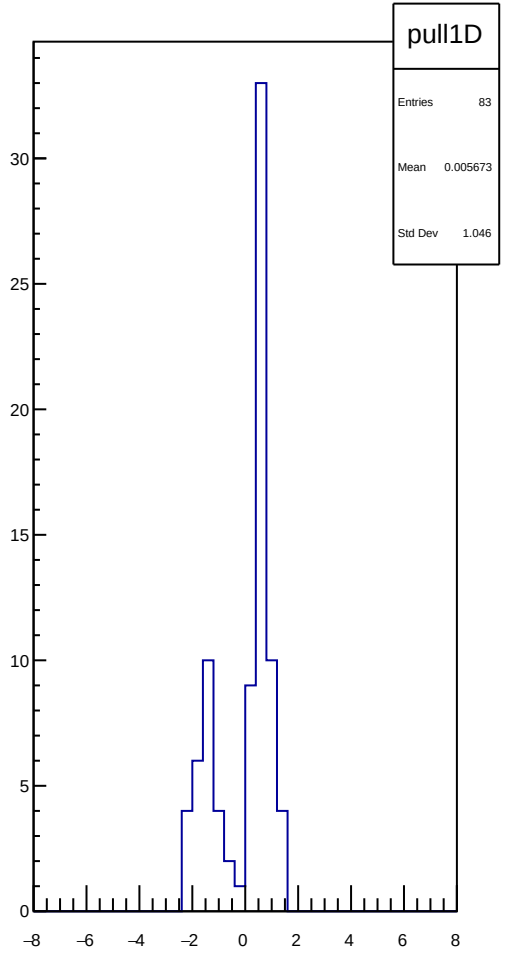

pull1D
Entries 83
Mean 0.2669
Std Dev 2.415

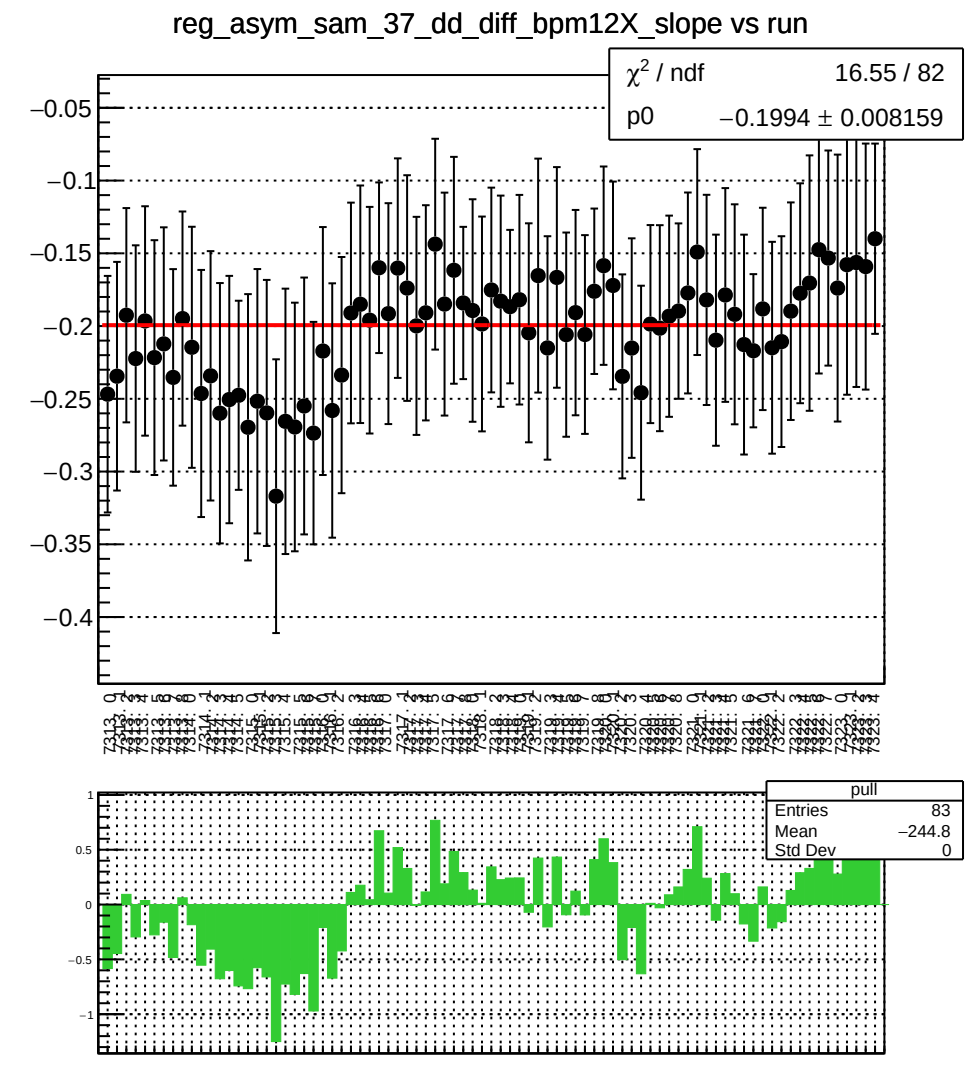

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 123.9 / 82
p0 −5.308 ± 0.1835
pull
Entries 83
Mean −2006
Std Dev 0
pull1D
Entries 83
Mean 0.01051
Std Dev 1.222

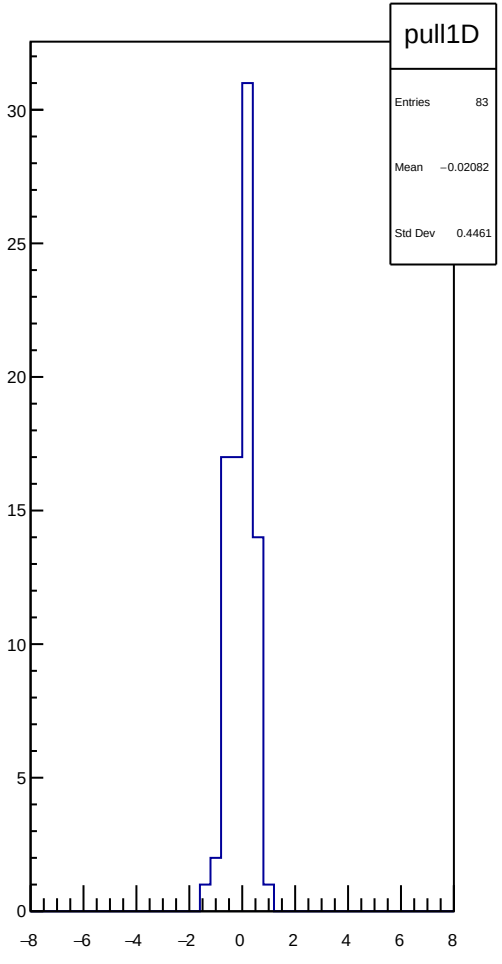

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 187.2 / 82
p0 1.528 ± 0.2307
pull
Entries 83
Mean 194.5
Std Dev 0

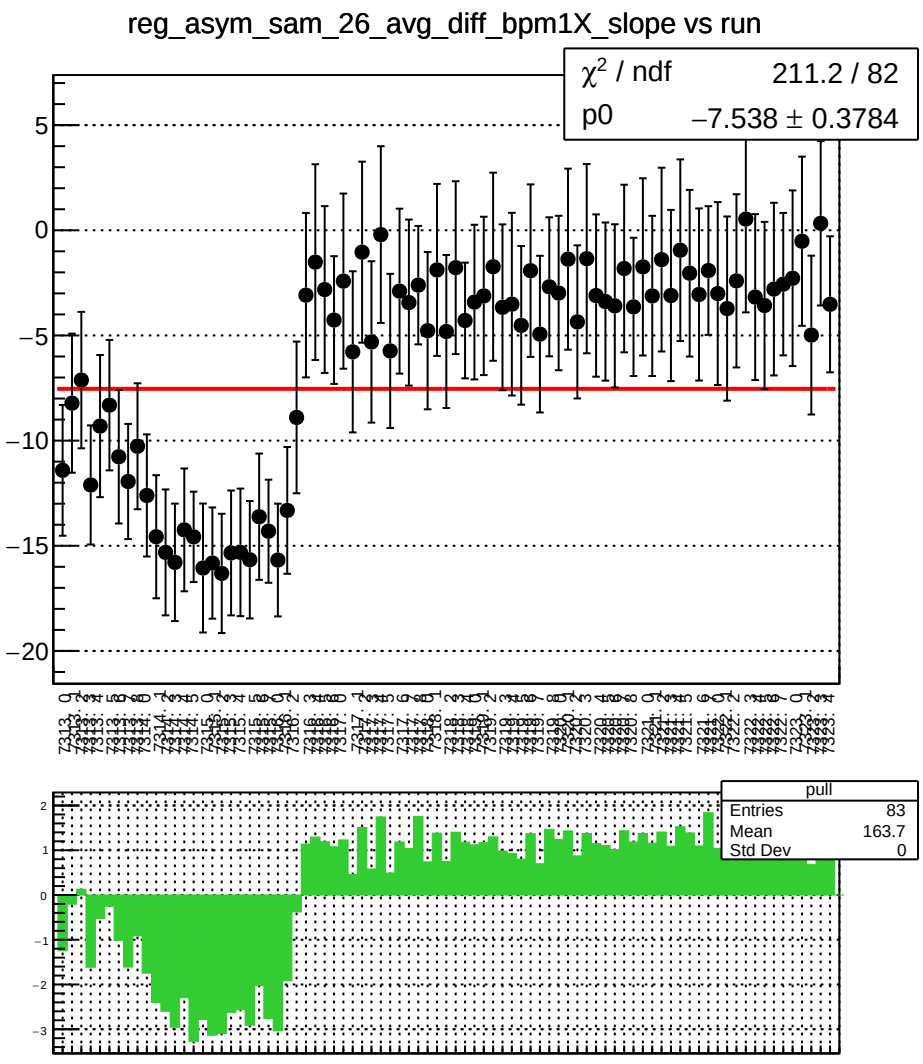

pull1D
Entries 83
Mean −0.1778
Std Dev 1.491

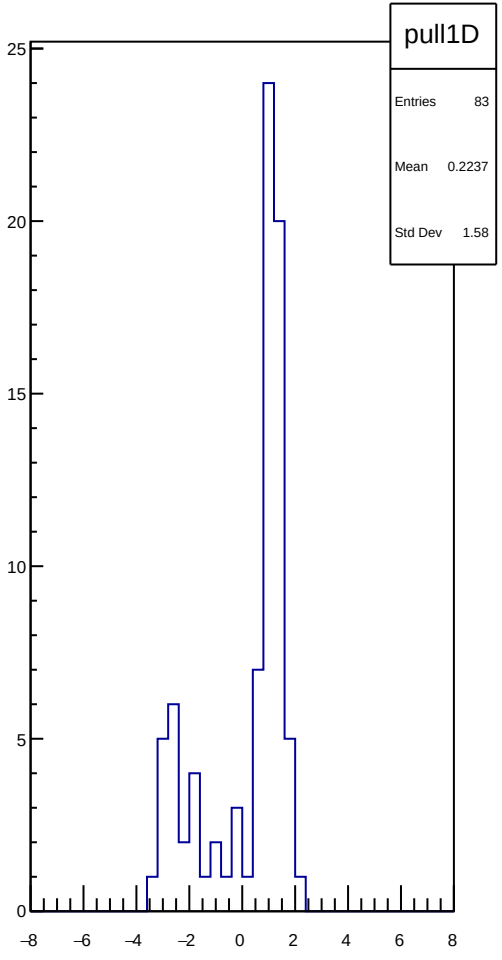

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.76 / 82
p0 20.74 ± 0.1993
pull
Entries 83
Mean 3463
Std Dev 0

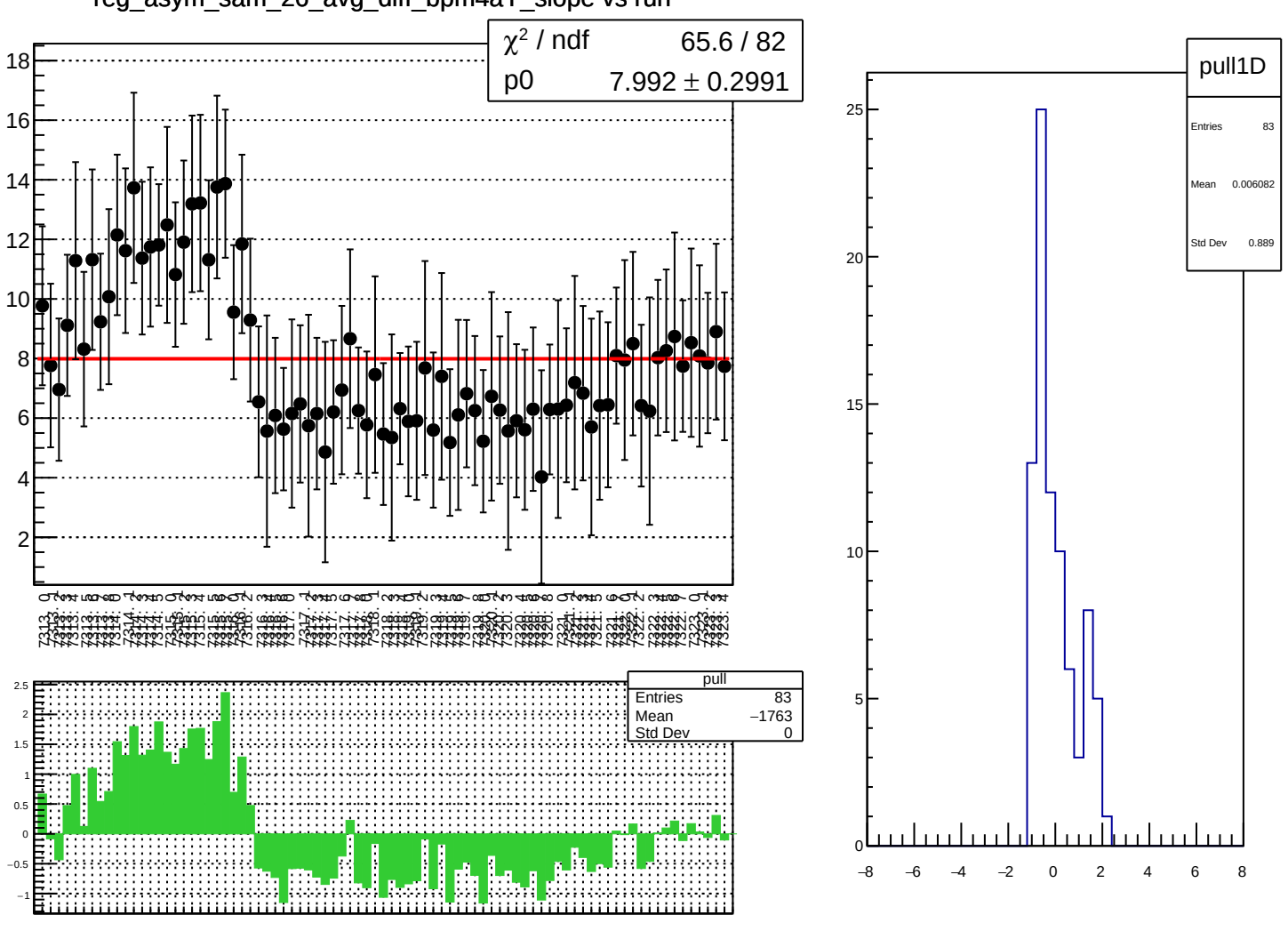

pull1D
Entries 83
Mean 0.005673
Std Dev 1.046

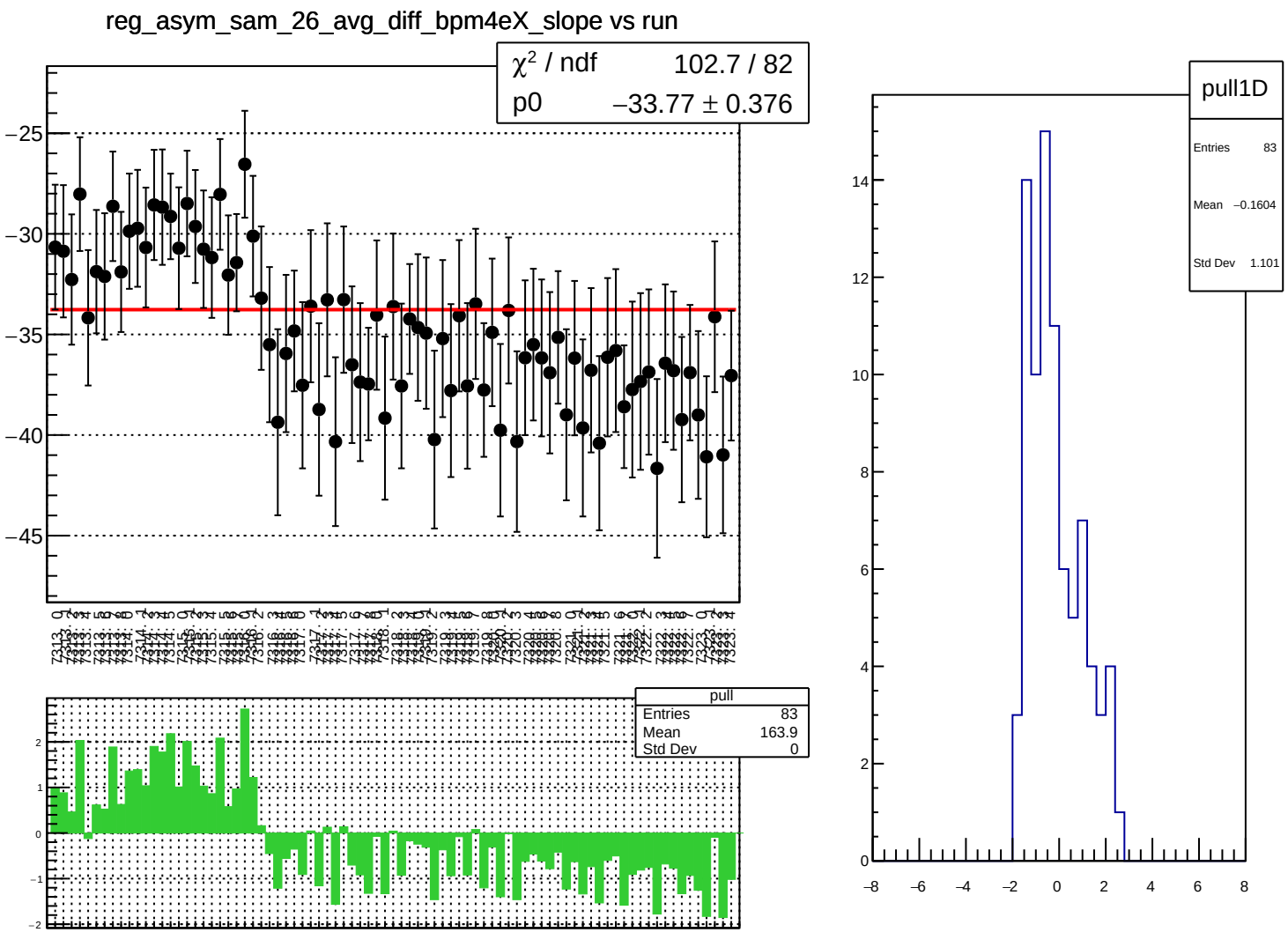

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 16.55 / 82
p0 −0.1994 ± 0.008159
pull
Entries 83
Mean −244.8
Std Dev 0

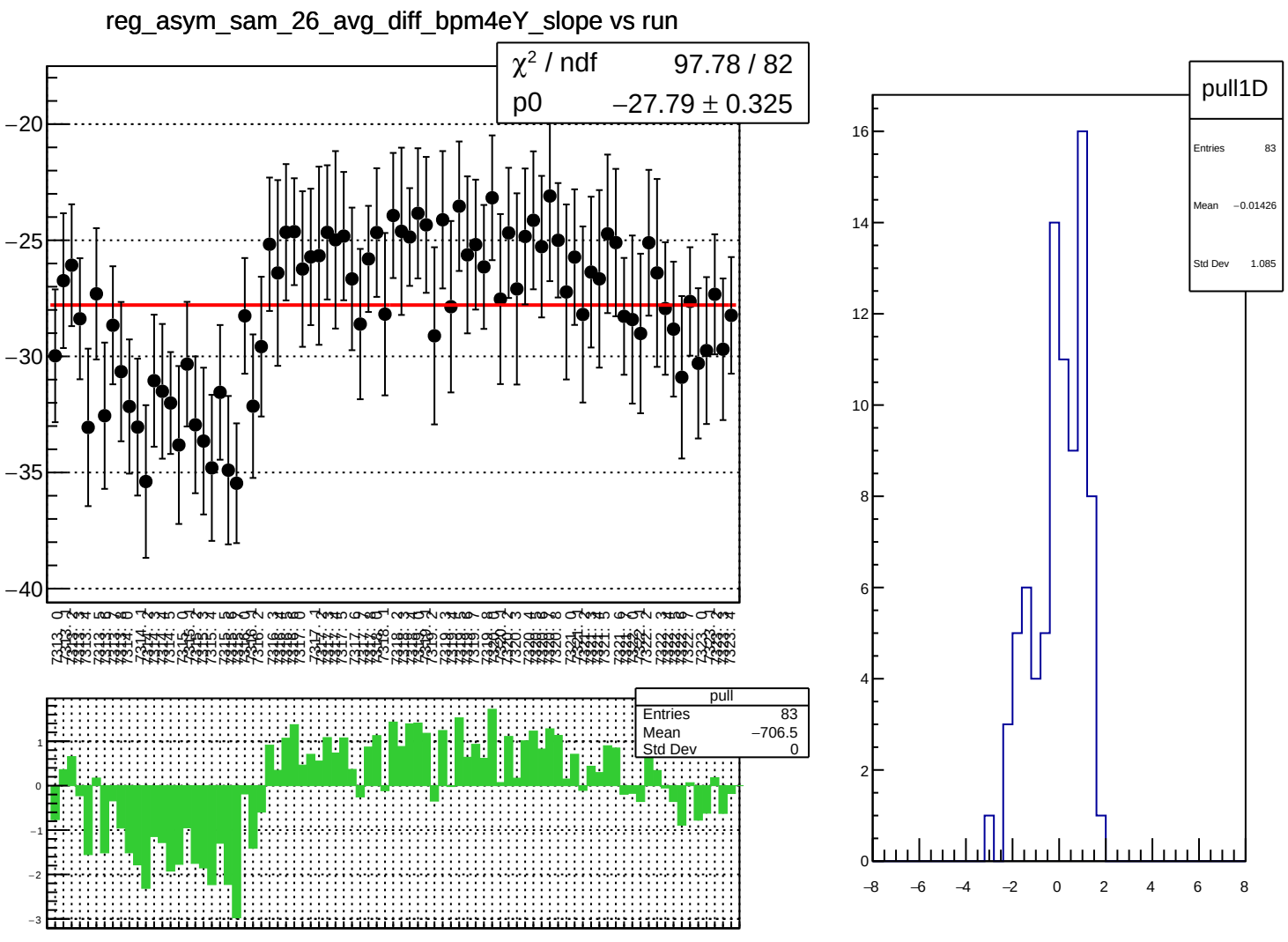

pull1D
Entries 83
Mean −0.02082
Std Dev 0.4461

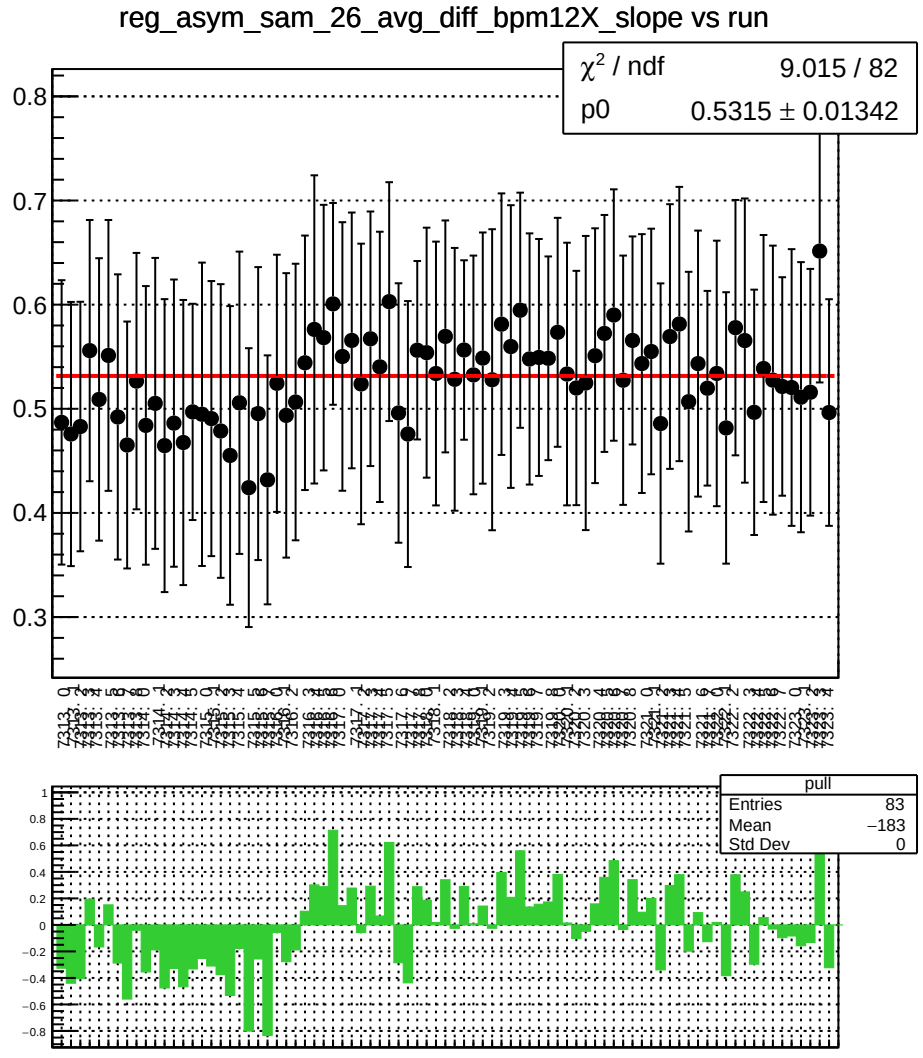

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 211.2 / 82
p0 −7.538 ± 0.3784
pull
Entries 83
Mean 163.7
Std Dev 0

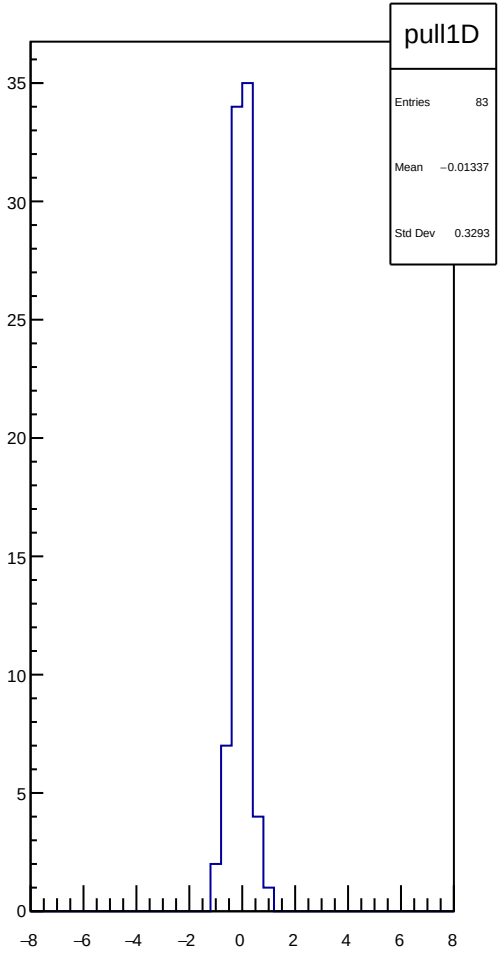

pull1D
Entries 83
Mean 0.2237
Std Dev 1.58

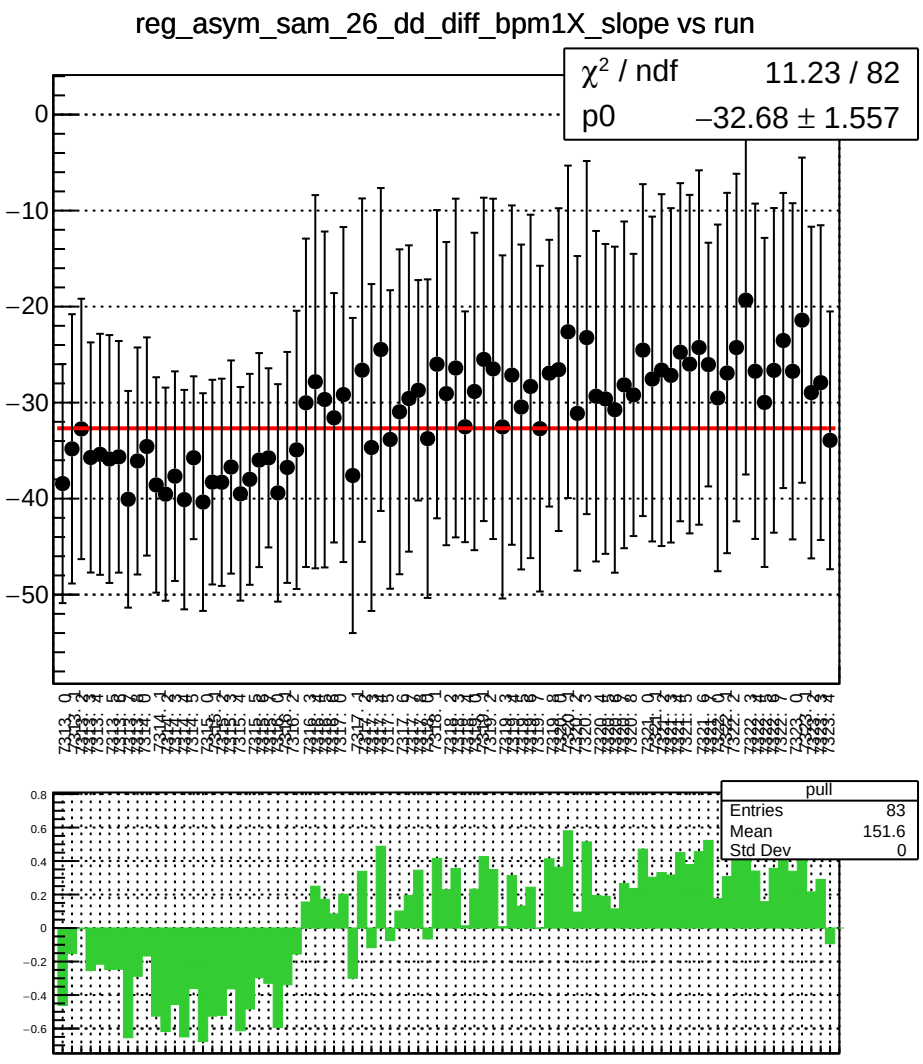

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.6 / 82
p0 7.992 ± 0.2991
pull
Entries 83
Mean −1763
Std Dev 0
pull1D
Entries 83
Mean 0.006082
Std Dev 0.889

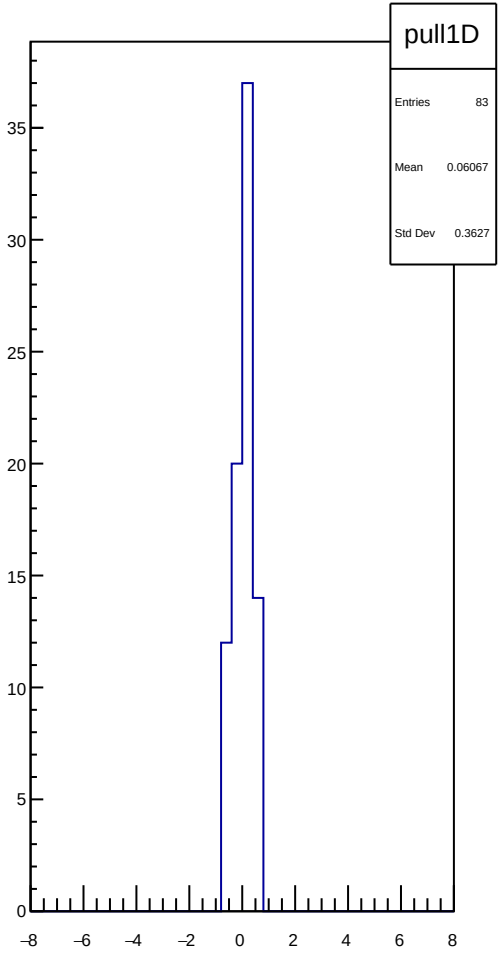

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.7 / 82
p0 −33.77 ± 0.376
pull
Entries 83
Mean 163.9
Std Dev 0
pull1D
Entries 83
Mean −0.1604
Std Dev 1.101

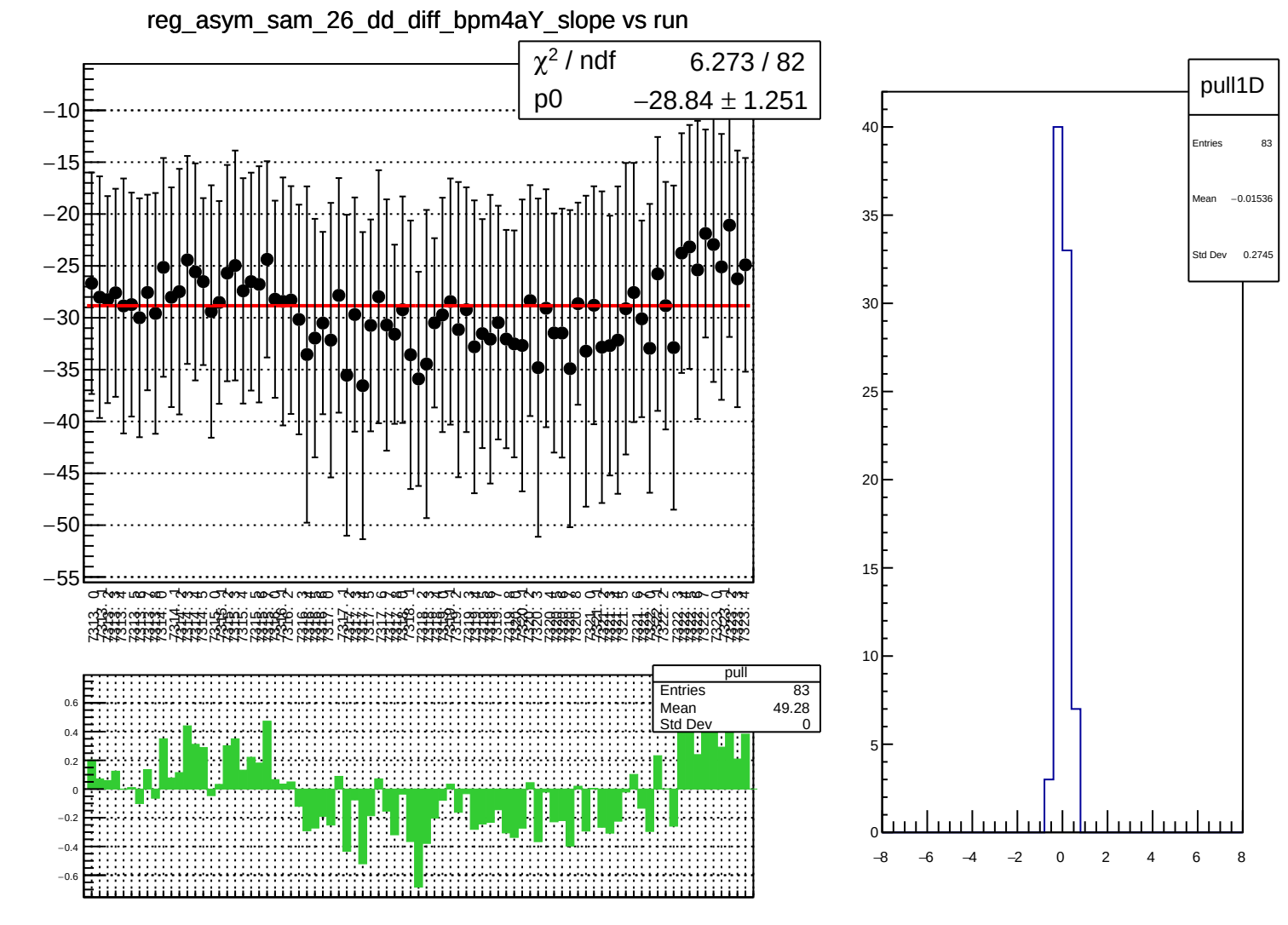

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.78 / 82
p0 −27.79 ± 0.325
pull
Entries 83
Mean −706.5
Std Dev 0
pull1D
Entries 83
Mean −0.01426
Std Dev 1.085

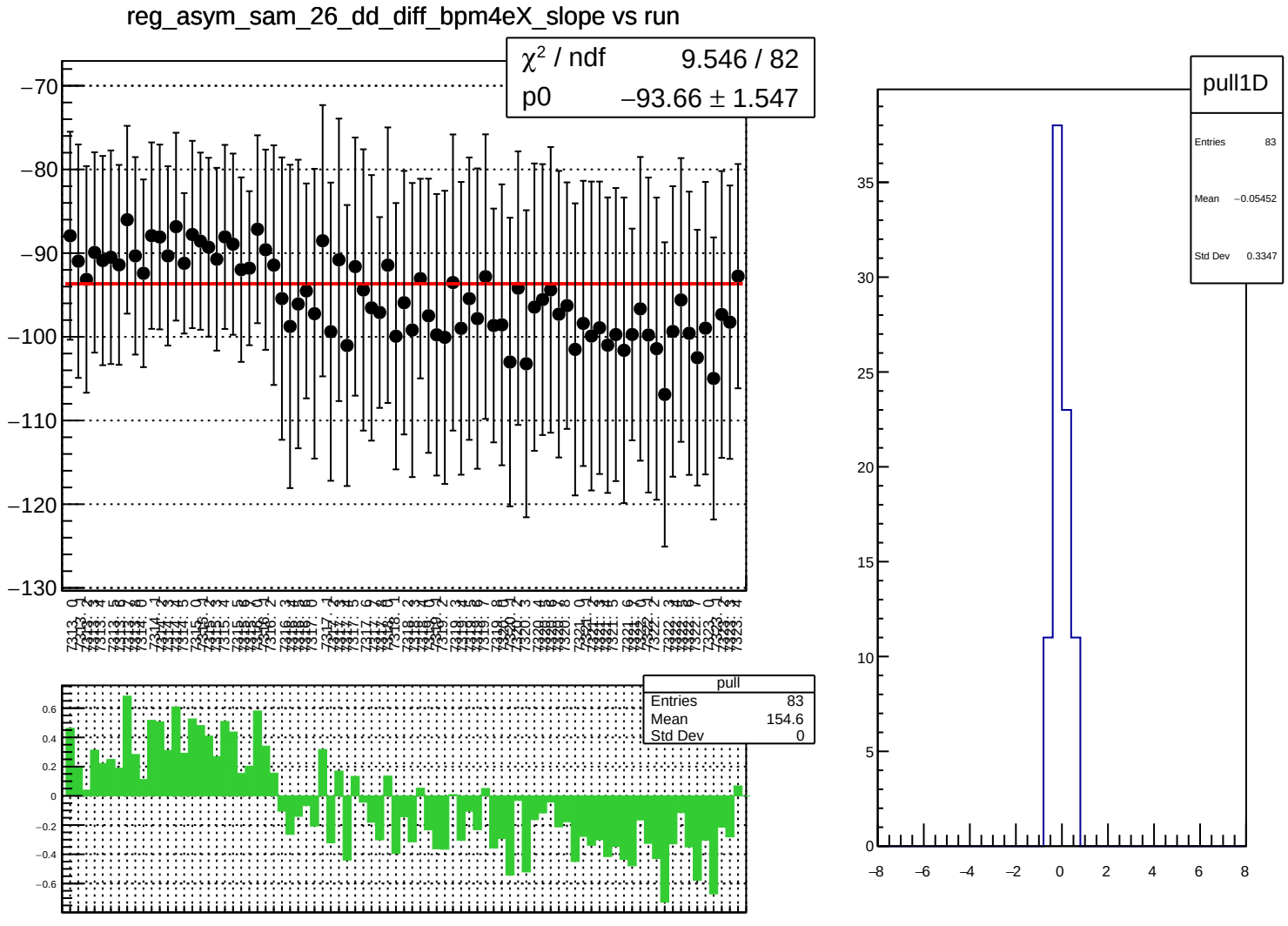

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.015 / 82
p0 0.5315 ± 0.01342
pull
Entries 83
Mean −183
Std Dev 0

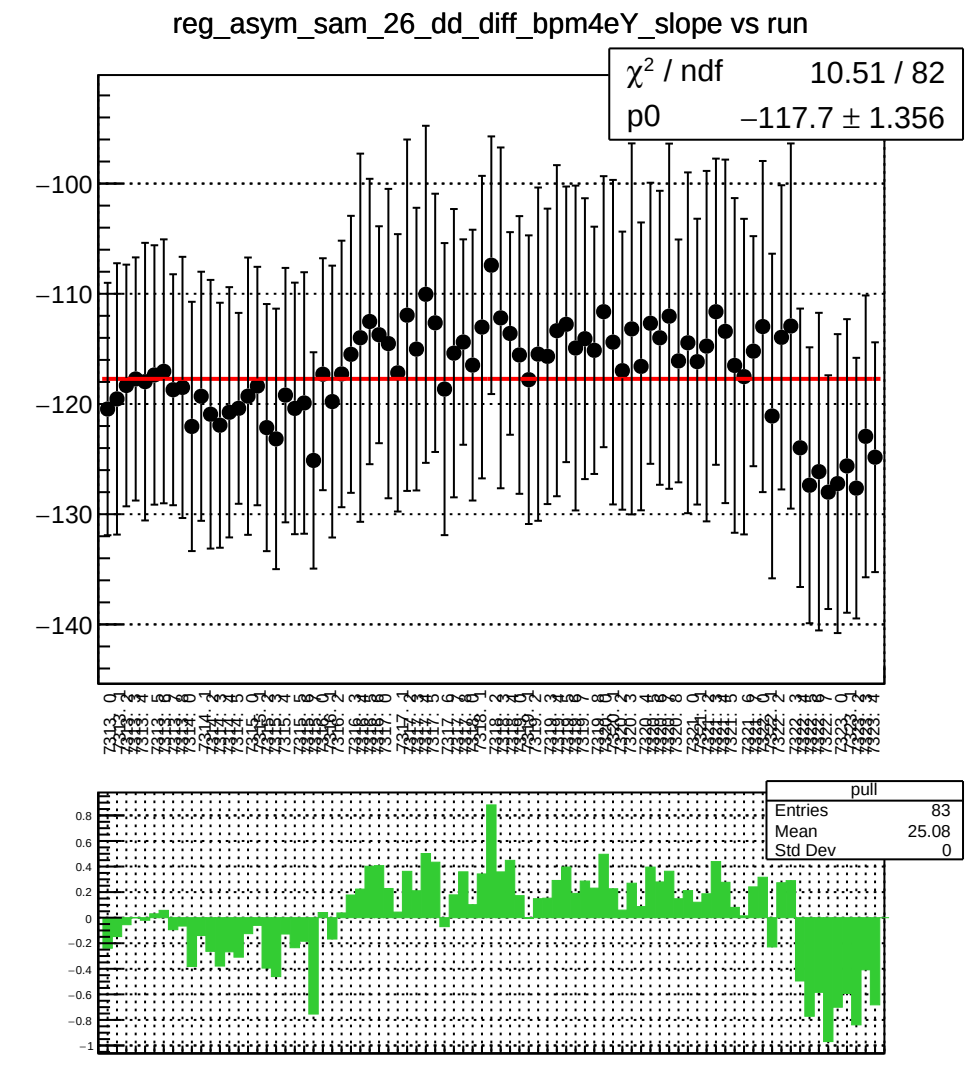

pull1D
Entries 83
Mean −0.01337
Std Dev 0.3293

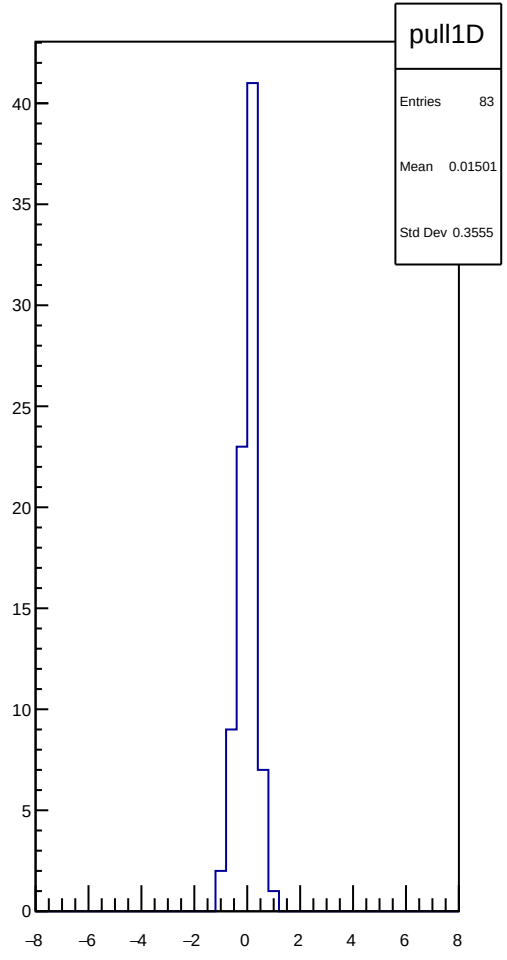

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.23 / 82
p0 −32.68 ± 1.557
pull
Entries 83
Mean 151.6
Std Dev 0

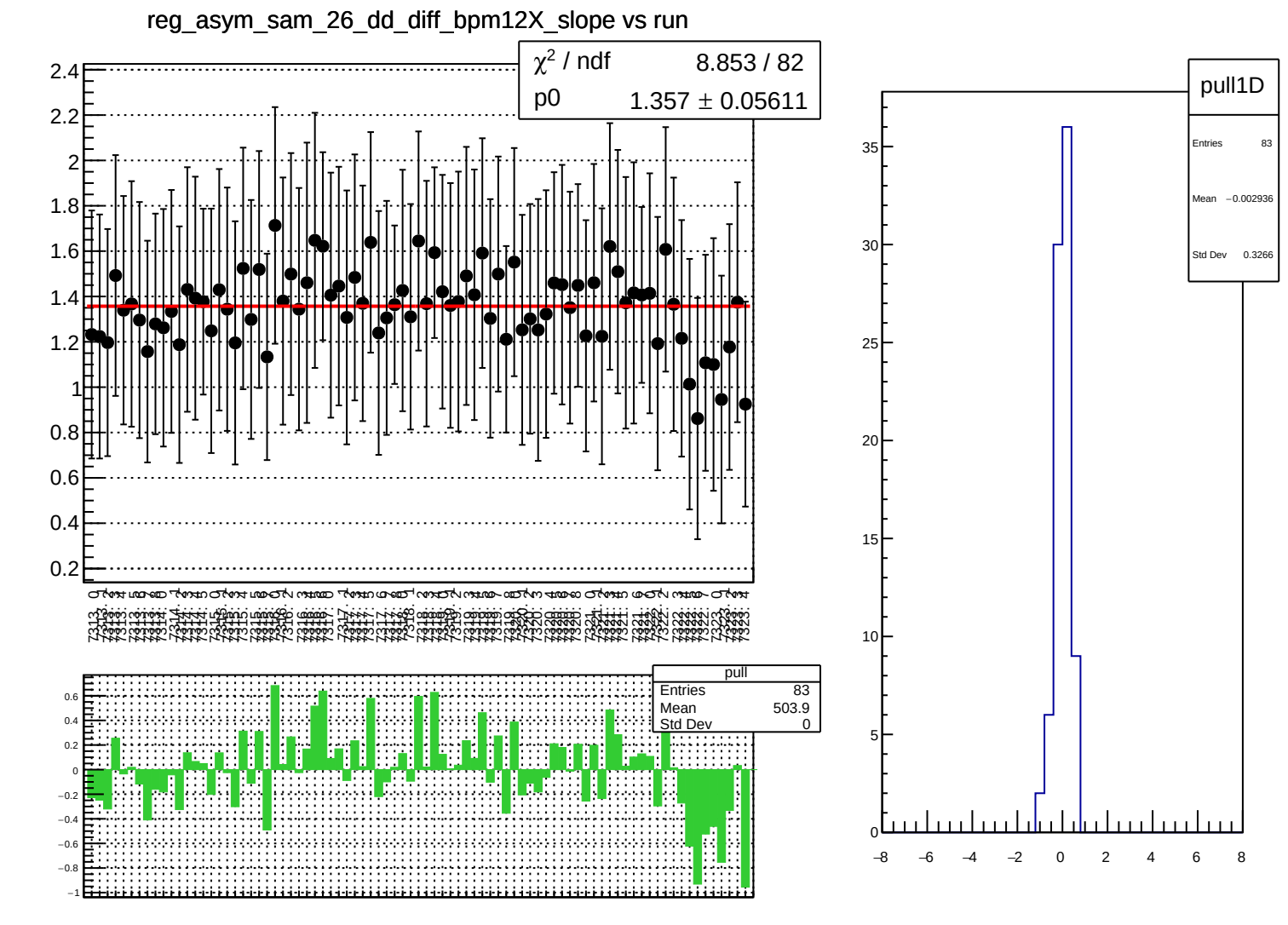

pull1D
Entries 83
Mean 0.06067
Std Dev 0.3627

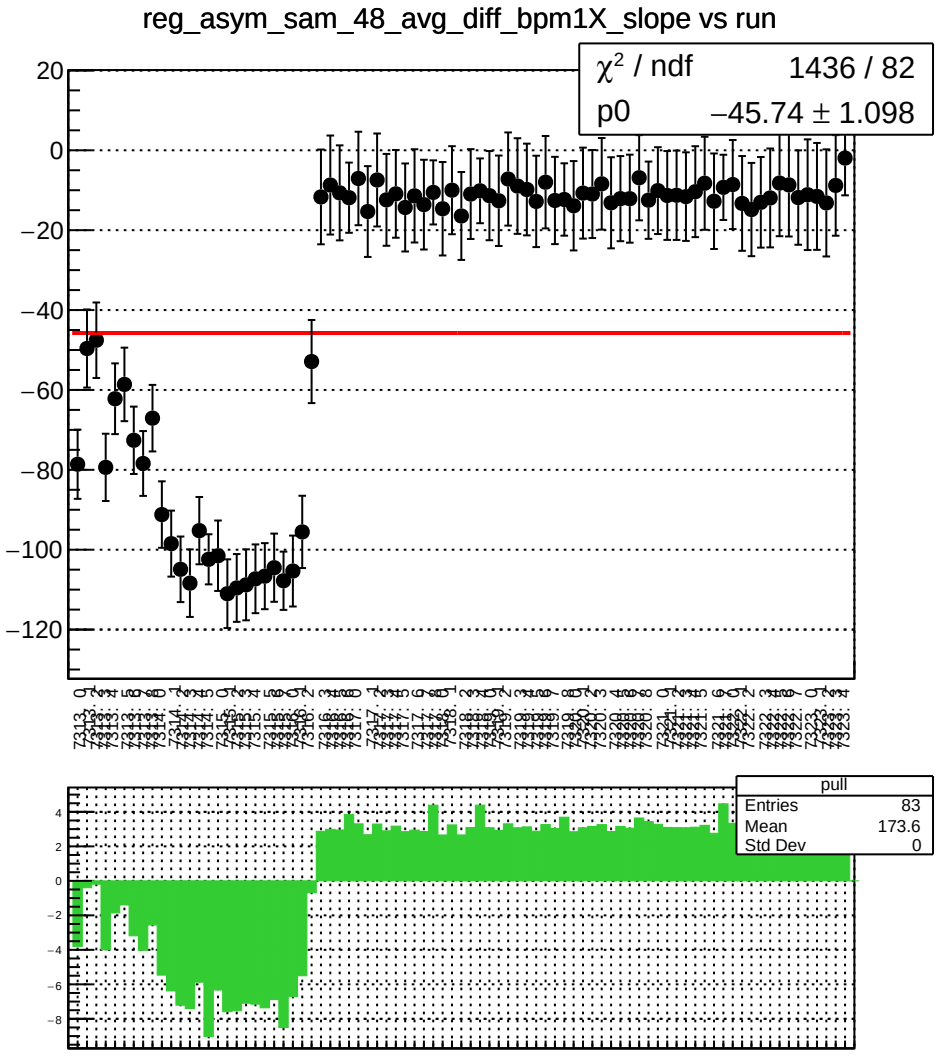

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.273 / 82
p0 −28.84 ± 1.251
pull
Entries 83
Mean 49.28
Std Dev 0
pull1D
Entries 83
Mean −0.01536
Std Dev 0.2745

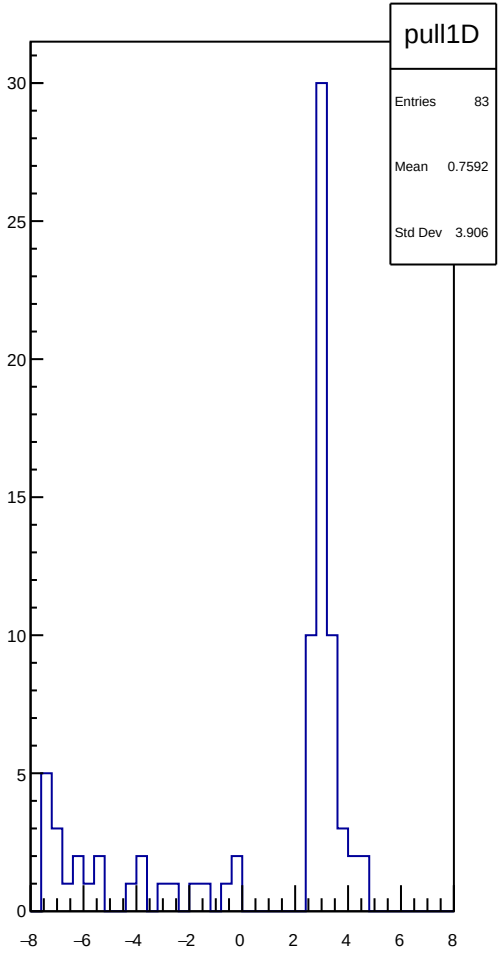

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.546 / 82
p0 −93.66 ± 1.547
pull
Entries 83
Mean 154.6
Std Dev 0
pull1D
Entries 83
Mean −0.05452
Std Dev 0.3347

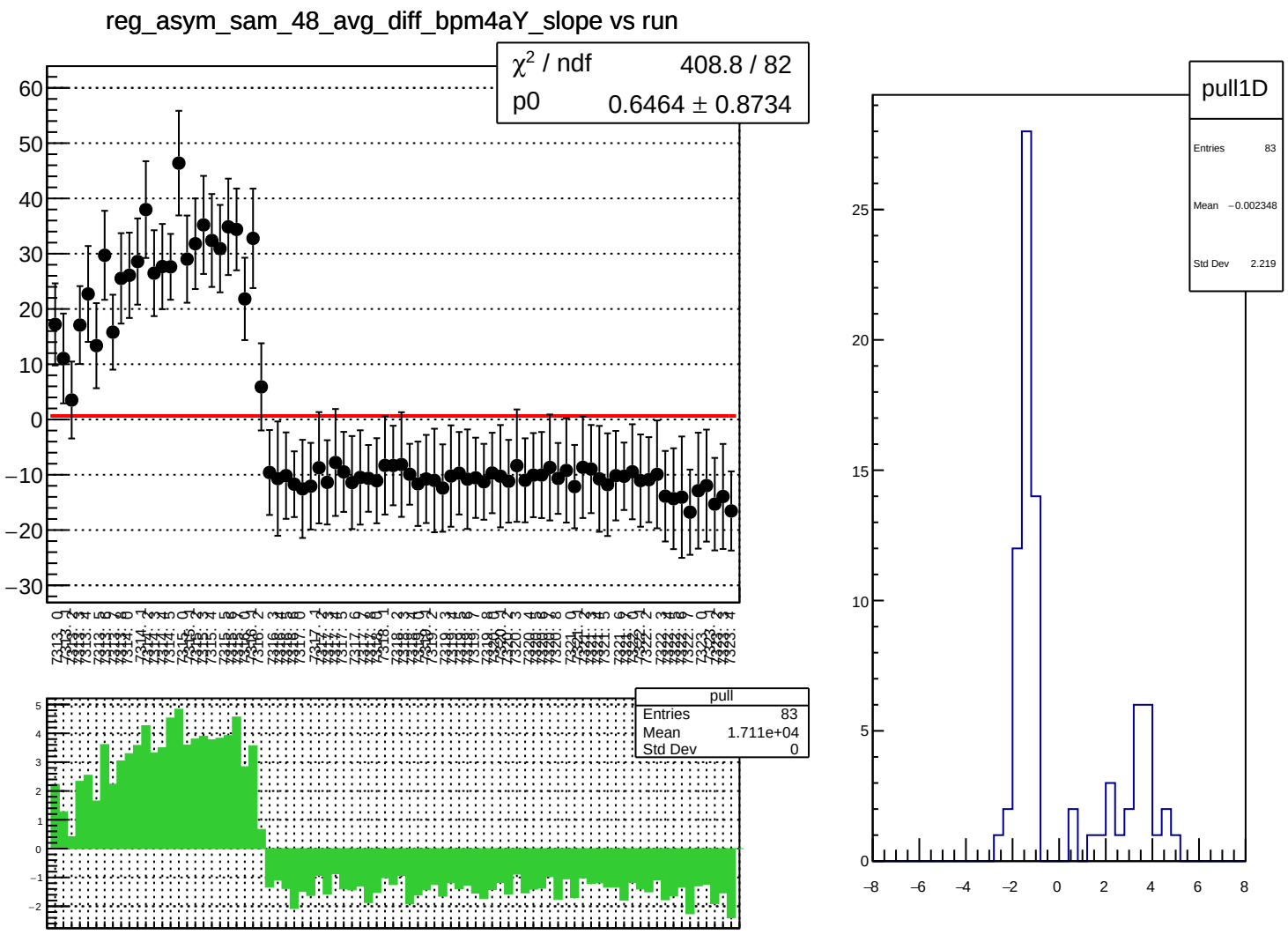

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.51 / 82
p0 −117.7 ± 1.356
pull
Entries 83
Mean 25.08
Std Dev 0

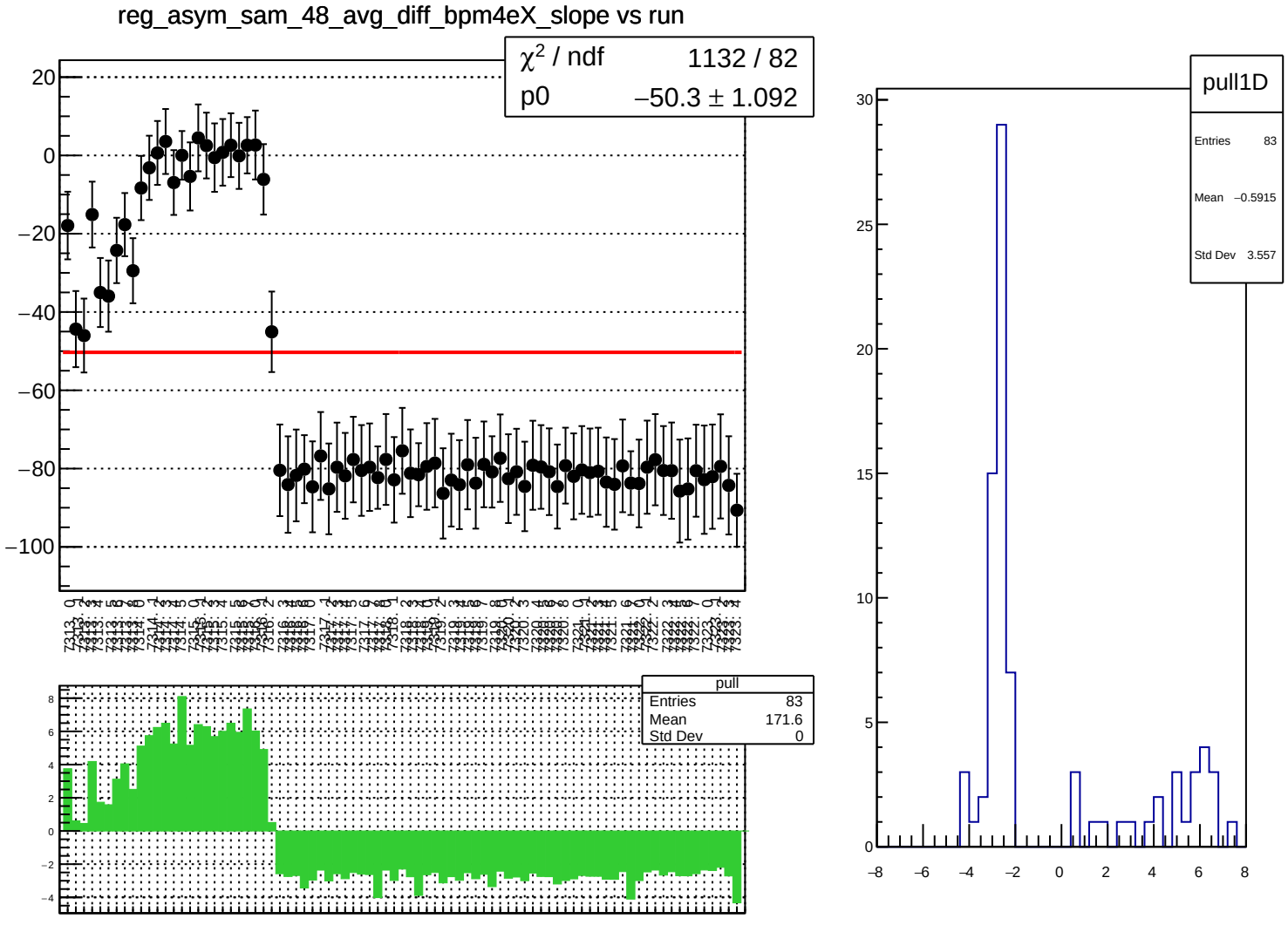

pull1D
Entries 83
Mean 0.01501
Std Dev 0.3555

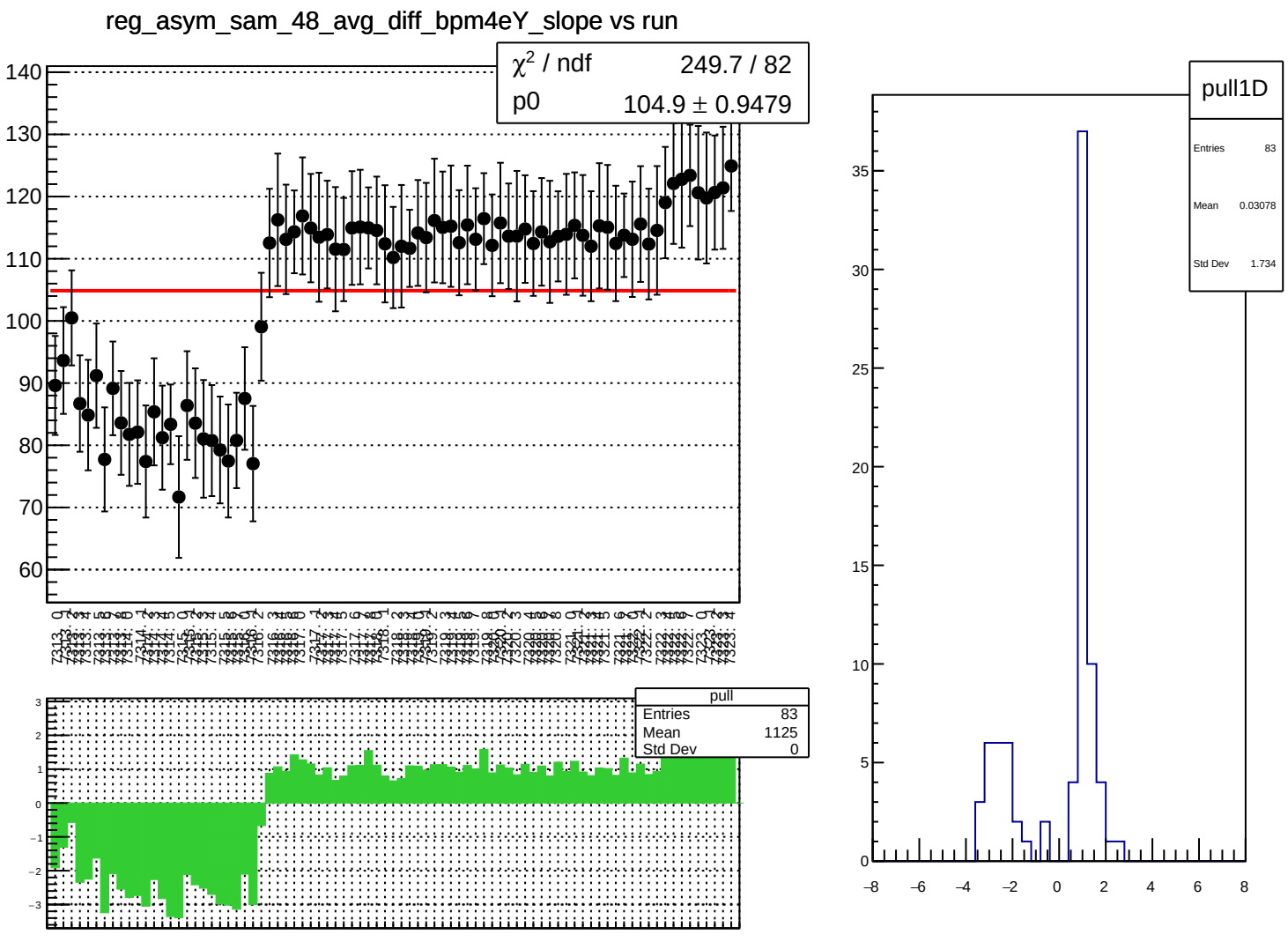

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.853 / 82
p0 1.357 ± 0.05611
pull
Entries 83
Mean 503.9
Std Dev 0
pull1D
Entries 83
Mean −0.002936
Std Dev 0.3266

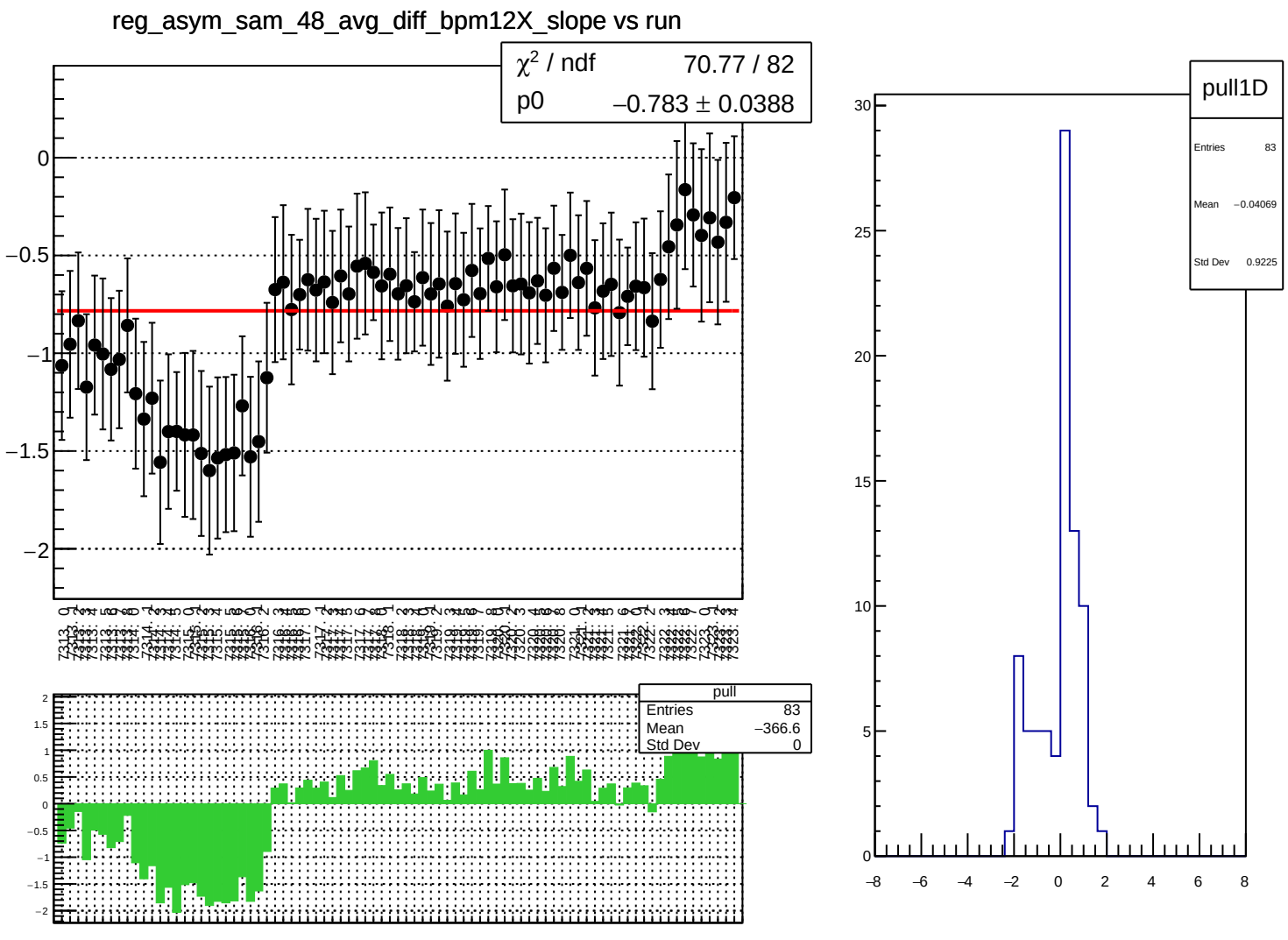

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1436 / 82
p0 −45.74 ± 1.098
pull
Entries 83
Mean 173.6
Std Dev 0

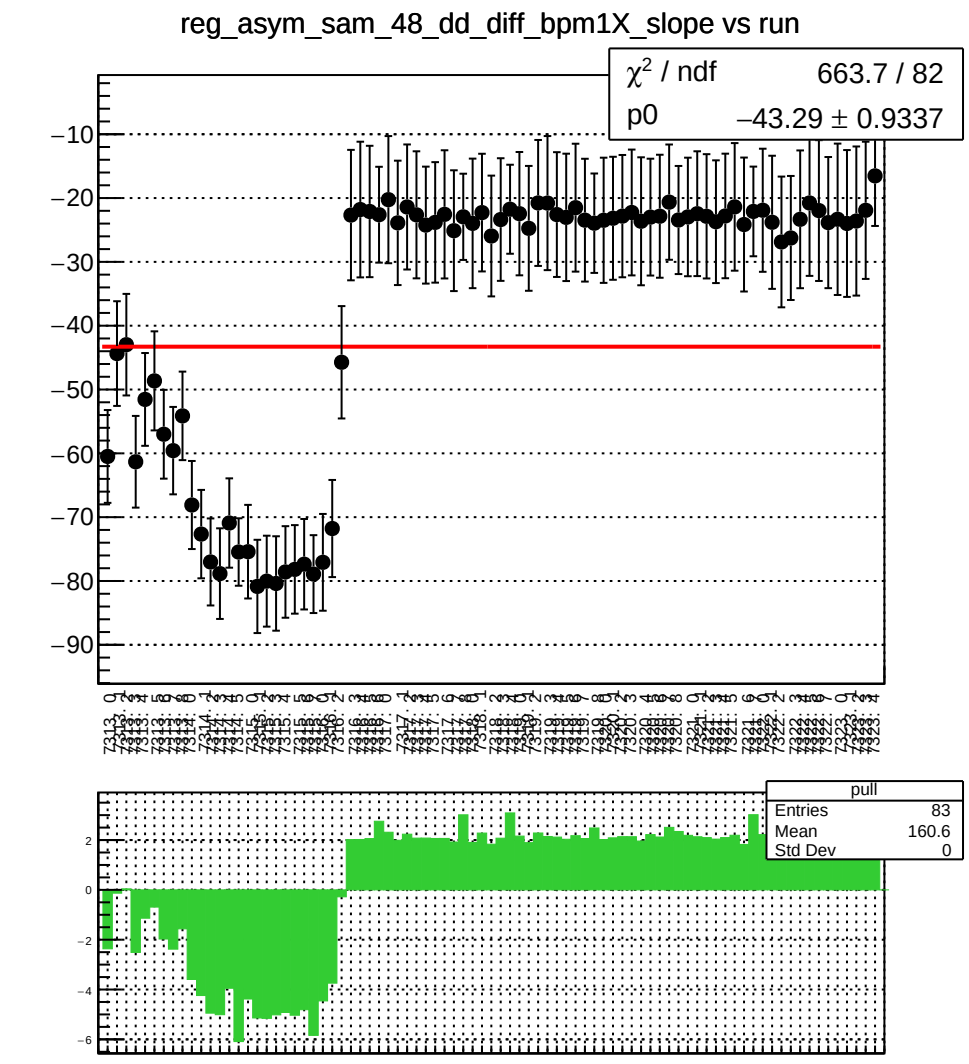

pull1D
Entries 83
Mean 0.7592
Std Dev 3.906

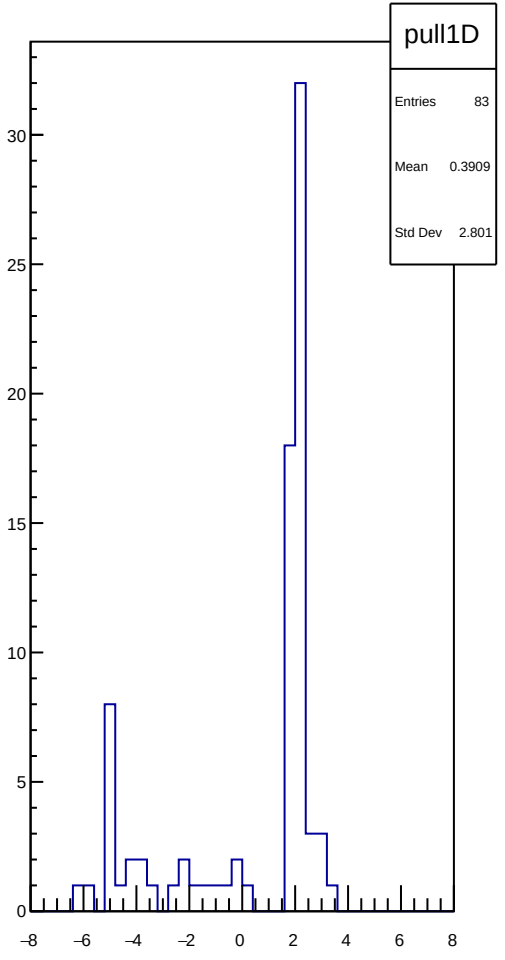

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 408.8 / 82
p0 0.6464 ± 0.8734
pull
Entries 83
Mean 1.711e+04
Std Dev 0
pull1D
Entries 83
Mean −0.002348
Std Dev 2.219

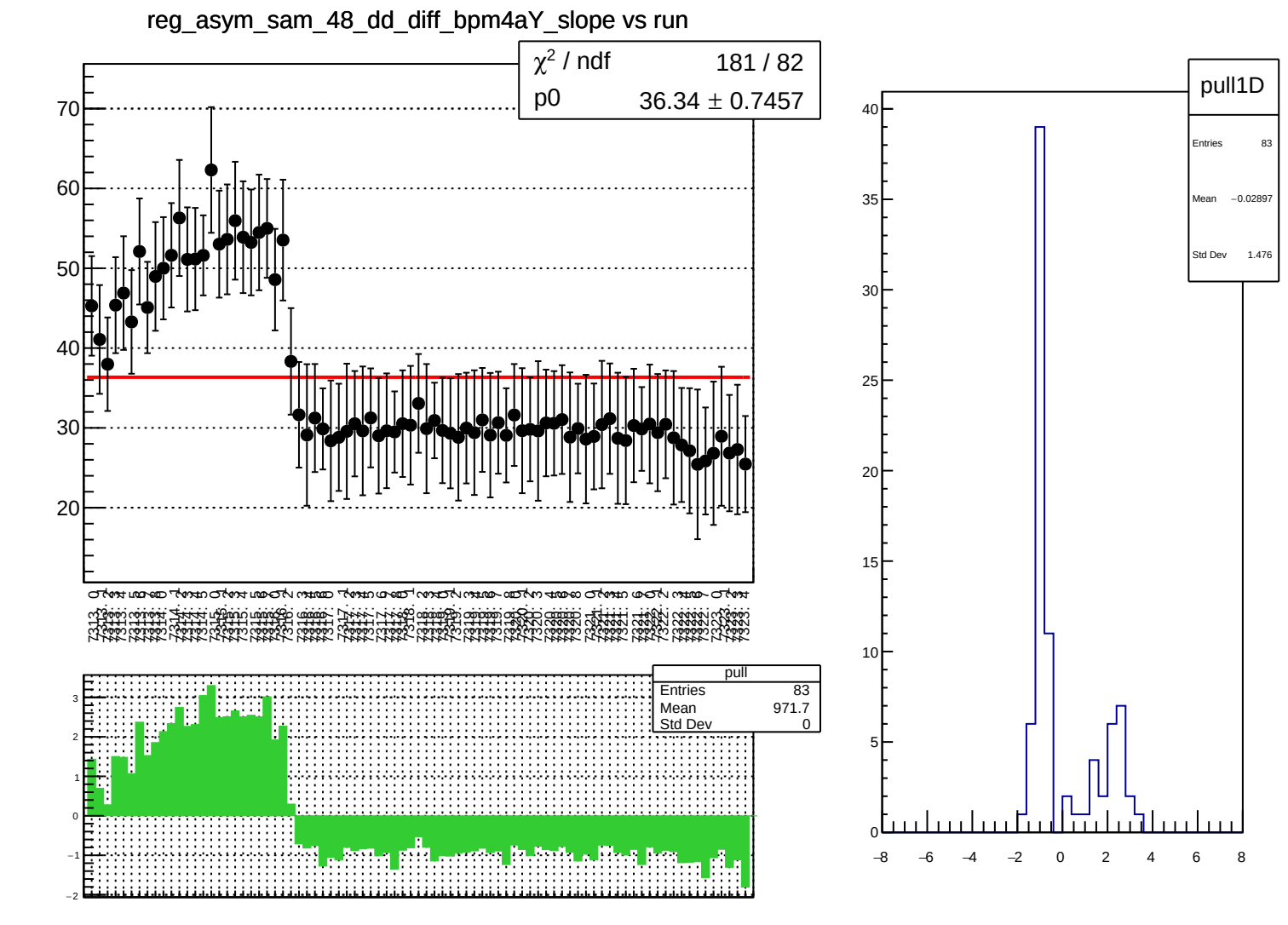

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1132 / 82
p0 −50.3 ± 1.092
pull
Entries 83
Mean 171.6
Std Dev 0
pull1D
Entries 83
Mean −0.5915
Std Dev 3.557

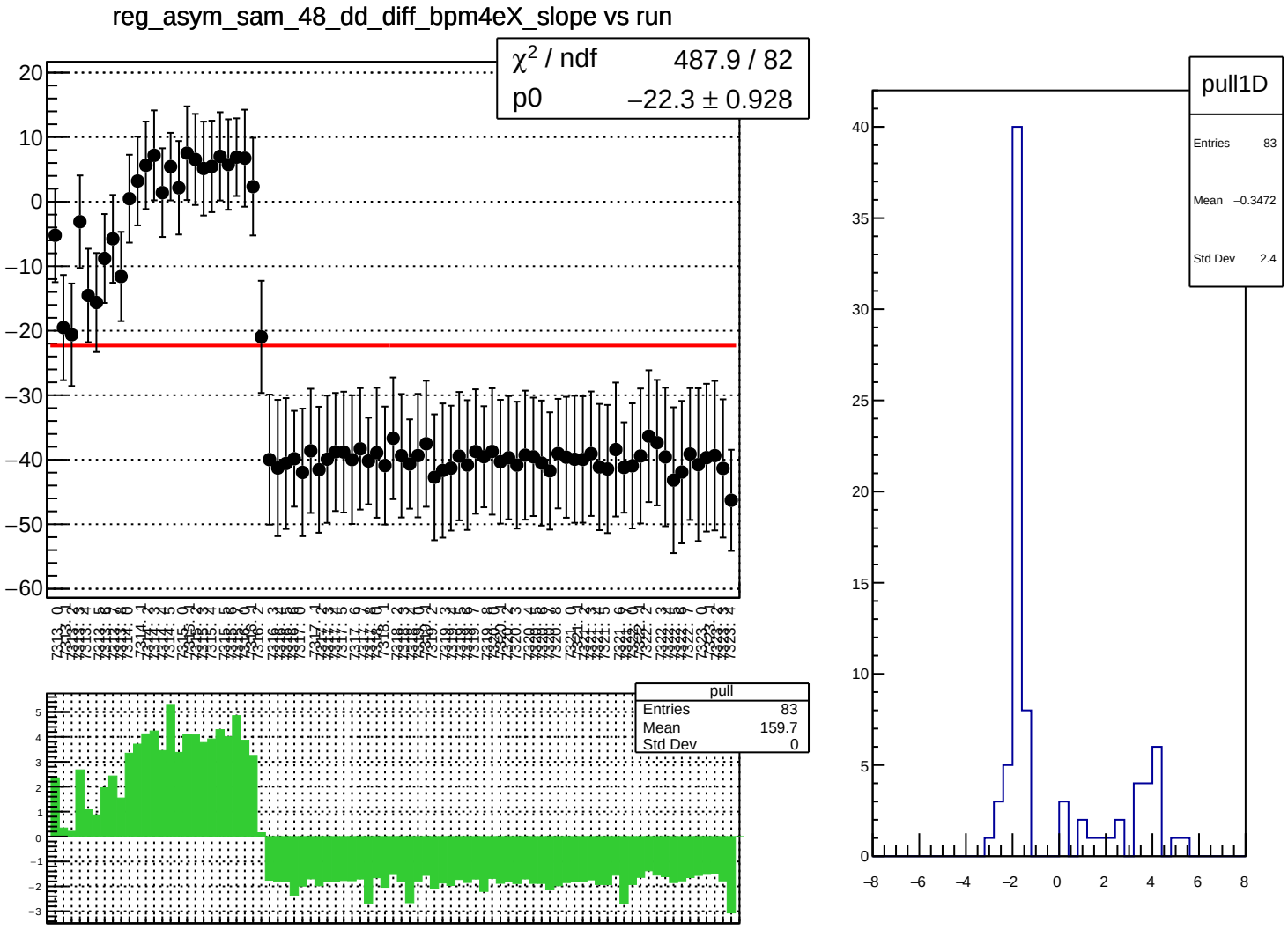

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 249.7 / 82
p0 104.9 ± 0.9479
pull
Entries 83
Mean 1125
Std Dev 0
pull1D
Entries 83
Mean 0.03078
Std Dev 1.734

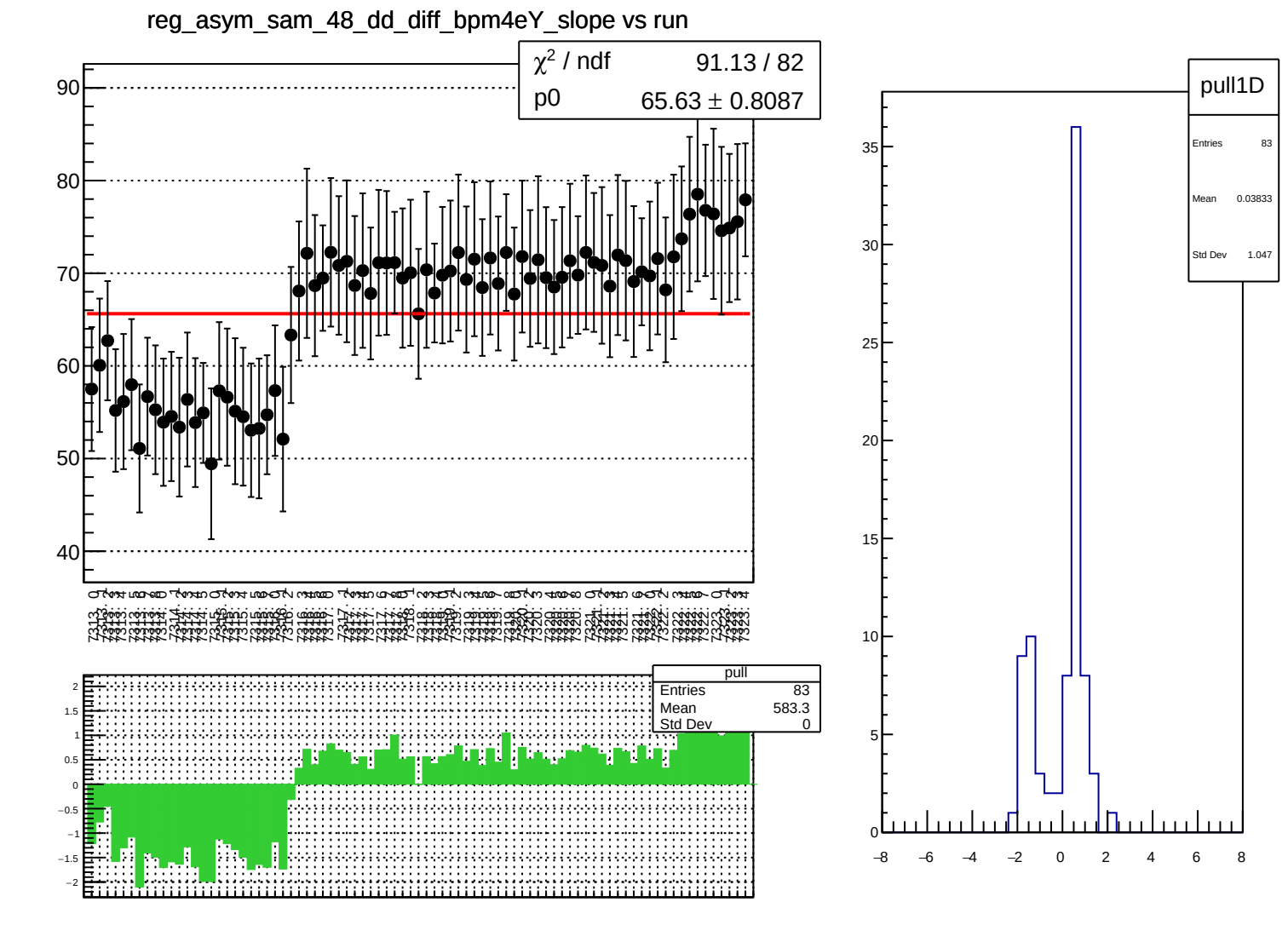

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 70.77 / 82
p0 −0.783 ± 0.0388
pull
Entries 83
Mean −366.6
Std Dev 0
pull1D
Entries 83
Mean −0.04069
Std Dev 0.9225

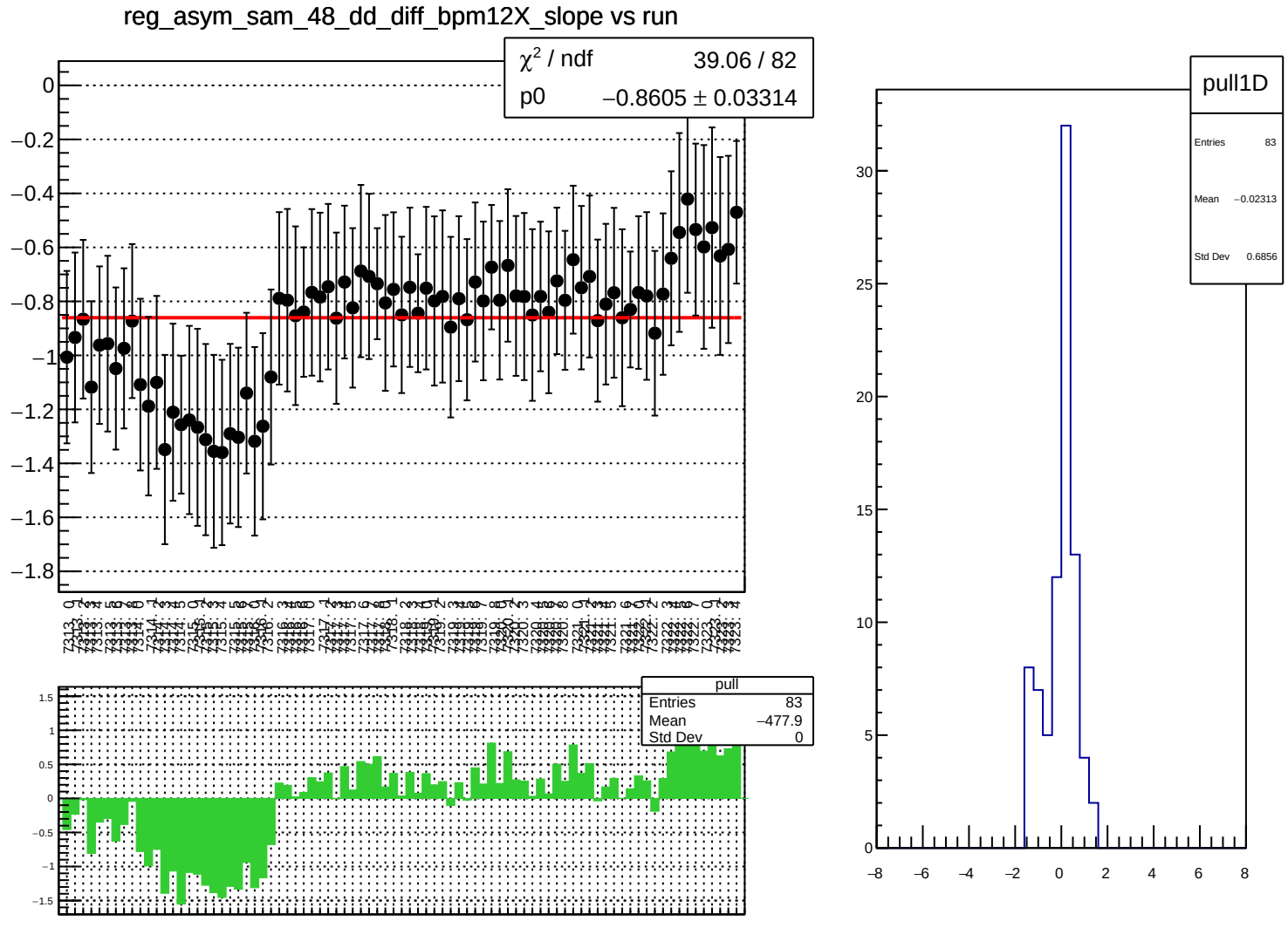

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 663.7 / 82
p0 −43.29 ± 0.9337
pull
Entries 83
Mean 160.6
Std Dev 0

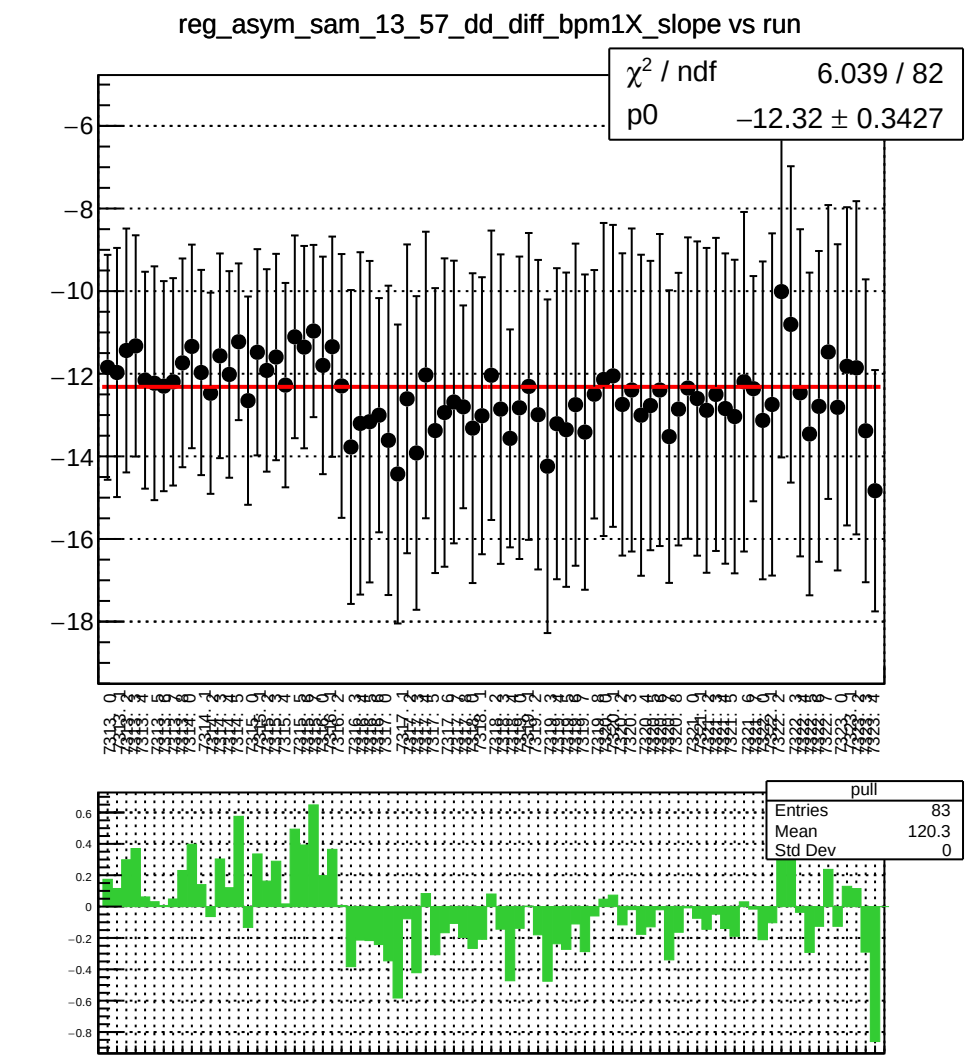

pull1D
Entries 83
Mean 0.3909
Std Dev 2.801

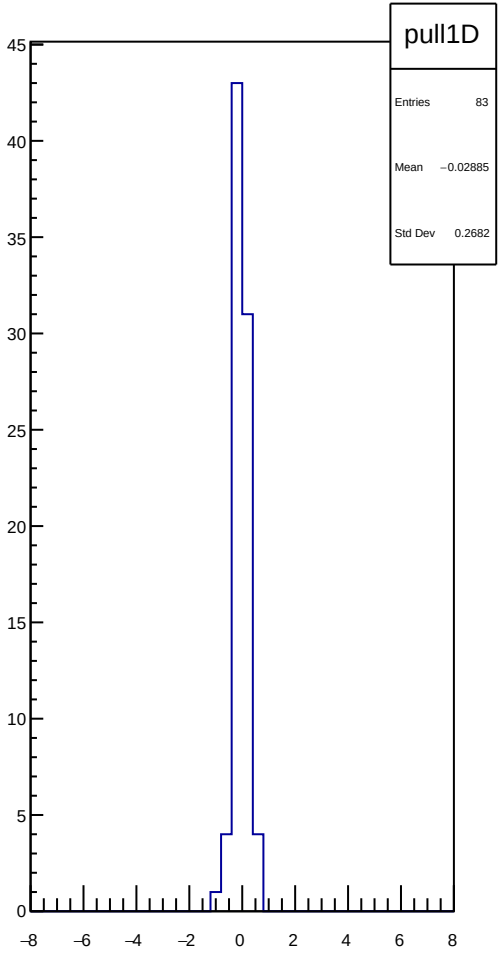

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 181 / 82
p0 36.34 ± 0.7457
pull
Entries 83
Mean 971.7
Std Dev 0
pull1D
Entries 83
Mean −0.02897
Std Dev 1.476

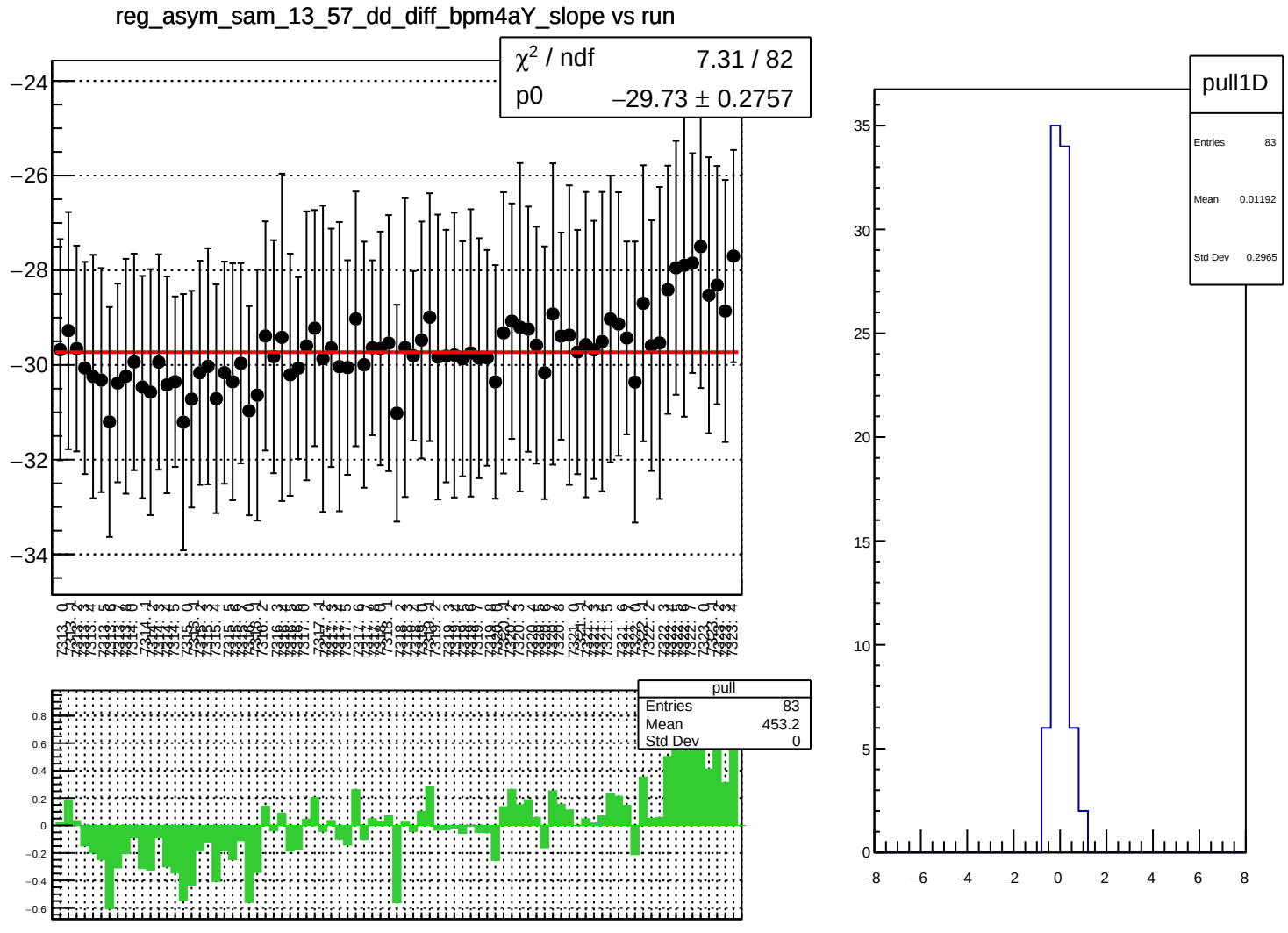

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 487.9 / 82
p0 −22.3 ± 0.928
pull
Entries 83
Mean 159.7
Std Dev 0
pull1D
Entries 83
Mean −0.3472
Std Dev 2.4

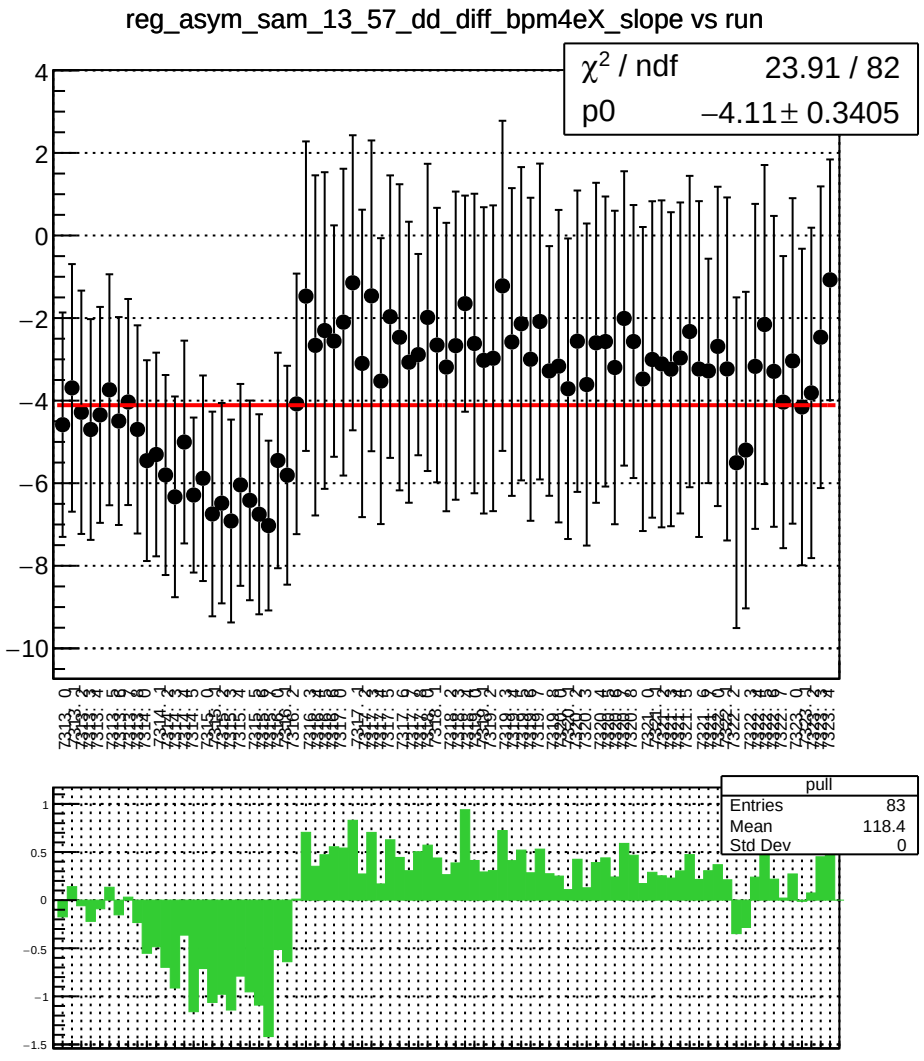

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.13 / 82
p0 65.63 ± 0.8087
pull
Entries 83
Mean 583.3
Std Dev 0
pull1D
Entries 83
Mean 0.03833
Std Dev 1.047

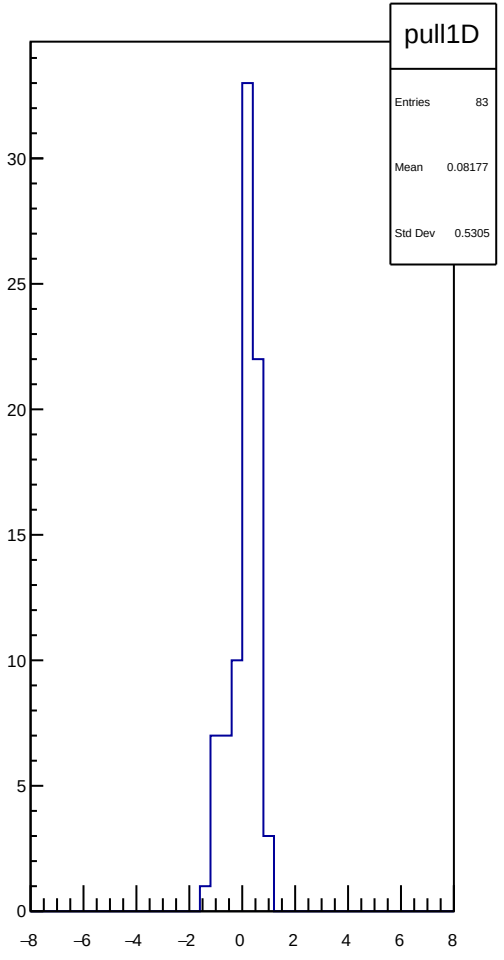

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 39.06 / 82
p0 −0.8605 ± 0.03314
pull
Entries 83
Mean −477.9
Std Dev 0
pull1D
Entries 83
Mean −0.02313
Std Dev 0.6856

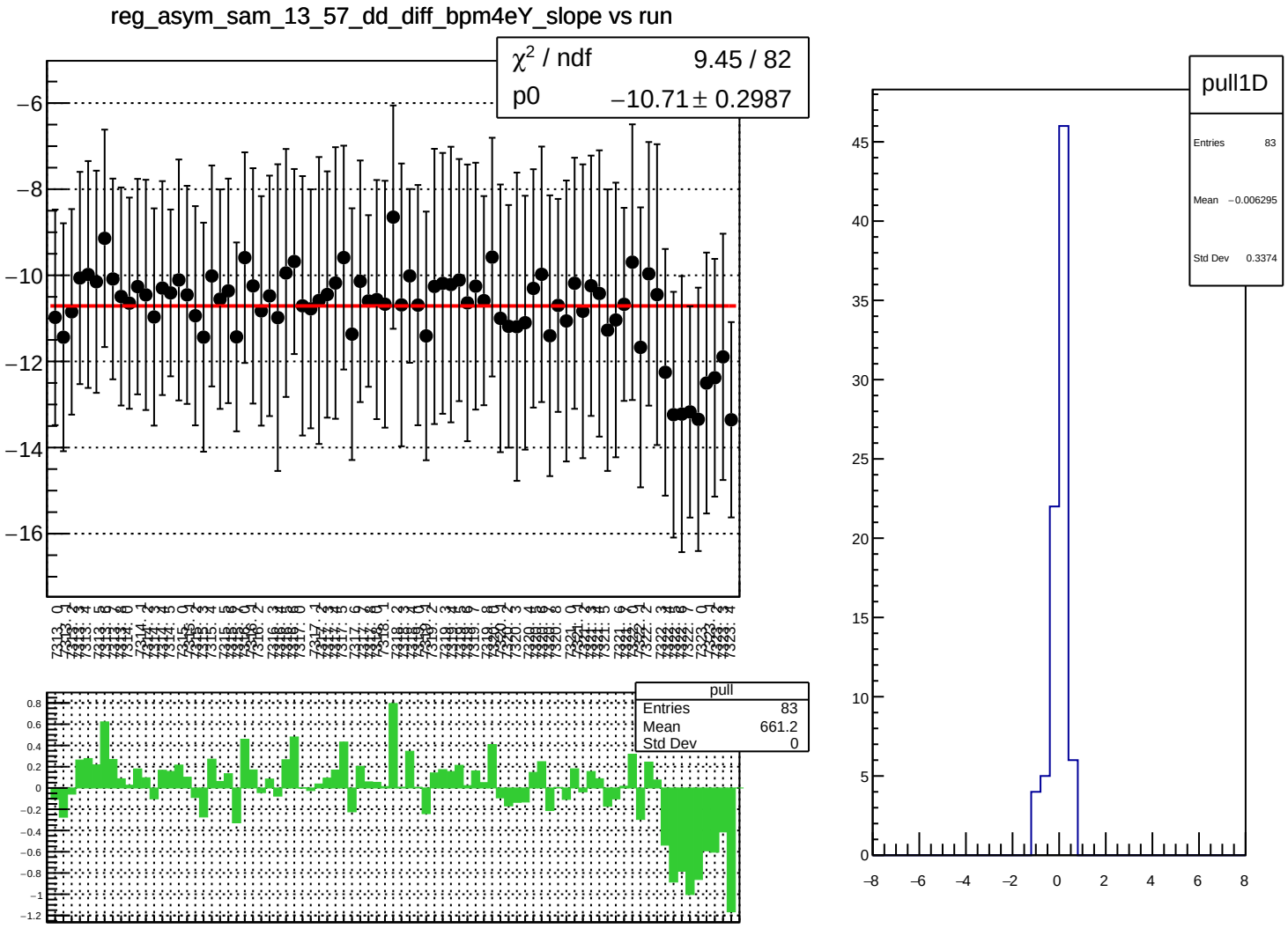

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 6.039 / 82
p0 −12.32 ± 0.3427
pull
Entries 83
Mean 120.3
Std Dev 0

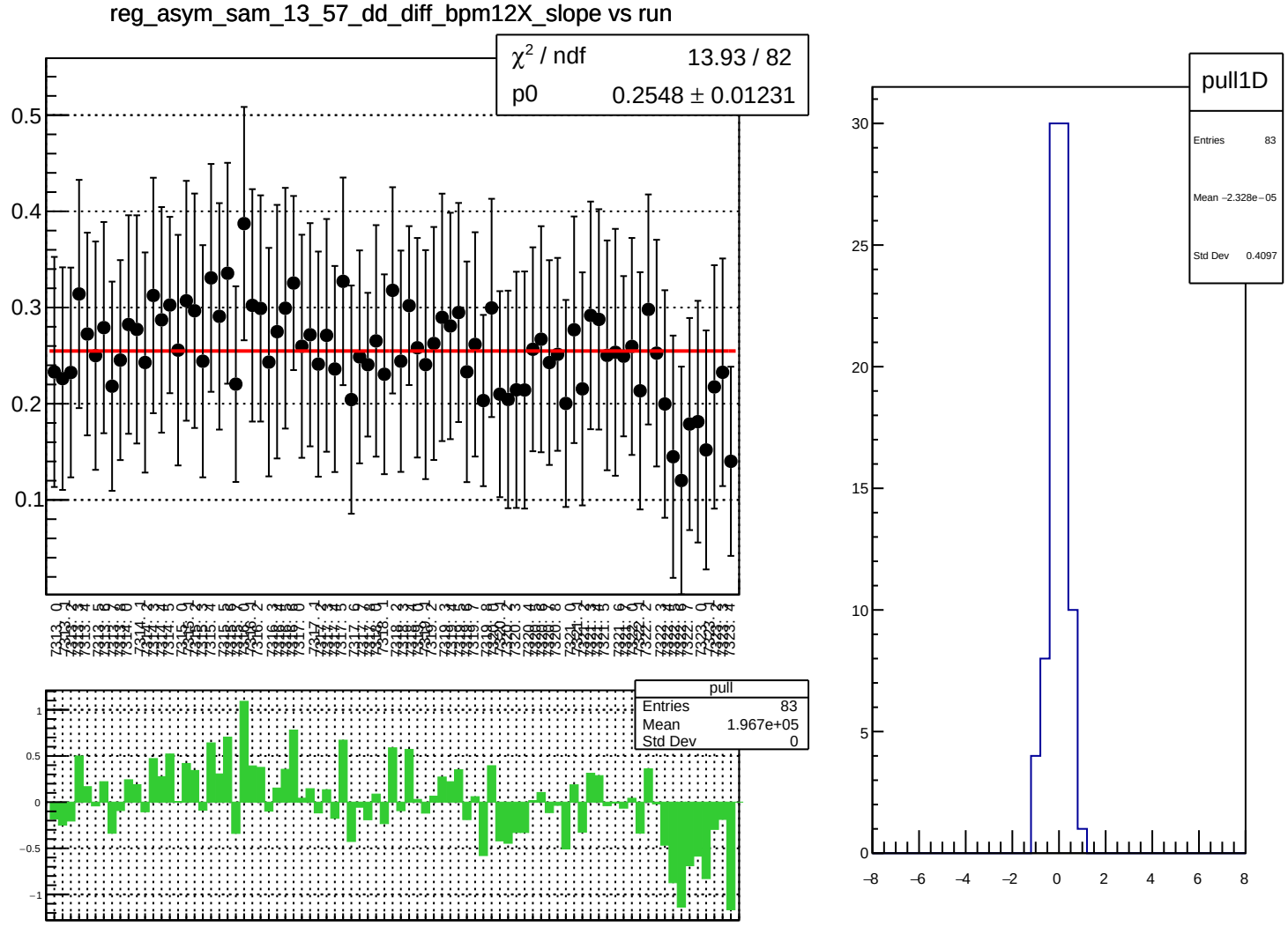

pull1D
Entries 83
Mean −0.02885
Std Dev 0.2682

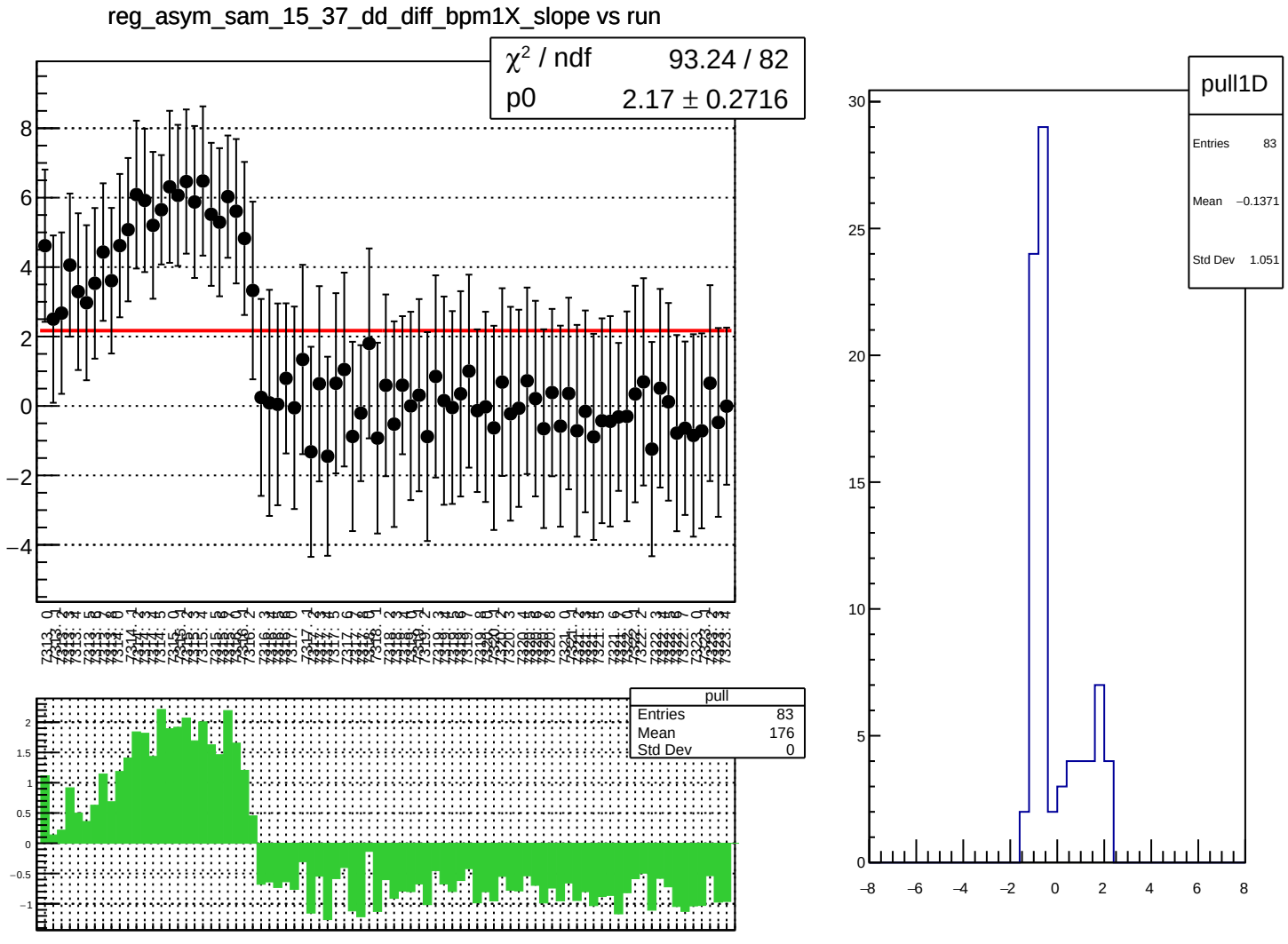

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.31 / 82
p0 −29.73 ± 0.2757
pull
Entries 83
Mean 453.2
Std Dev 0
pull1D
Entries 83
Mean 0.01192
Std Dev 0.2965

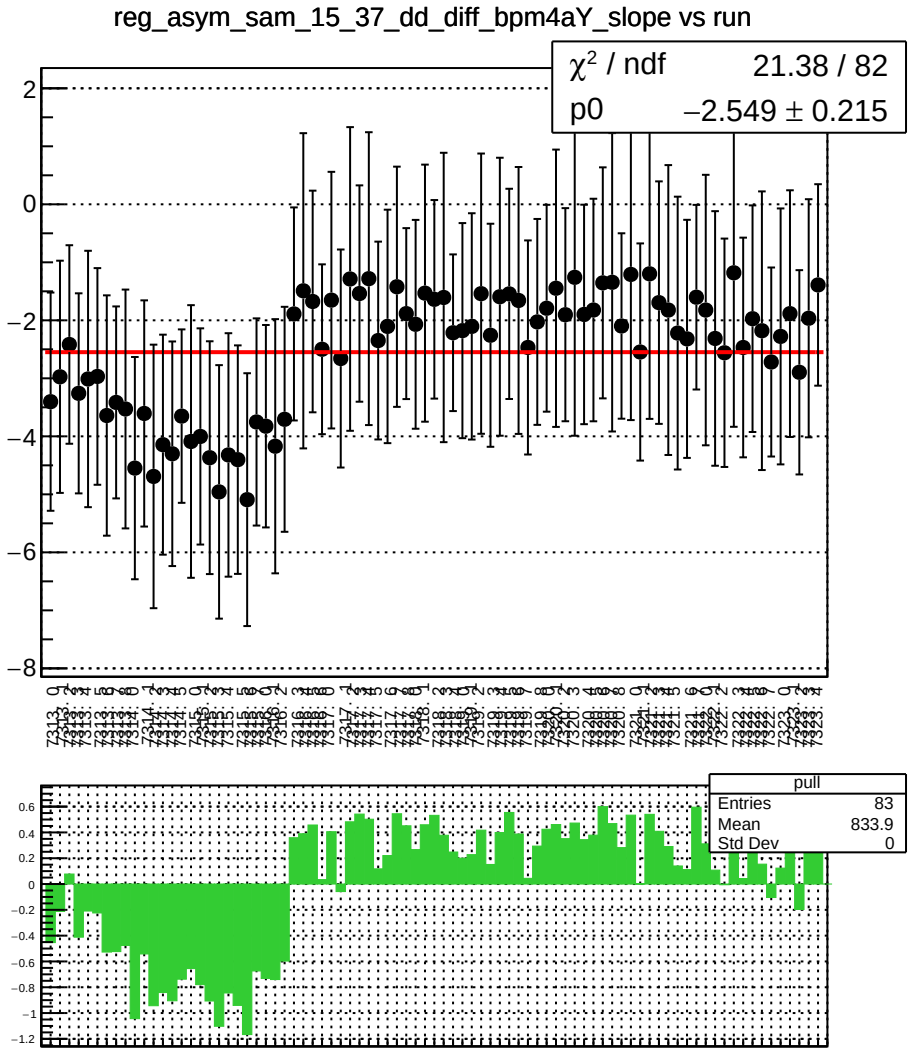

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.91 / 82
p0 −4.11 ± 0.3405
pull
Entries 83
Mean 118.4
Std Dev 0

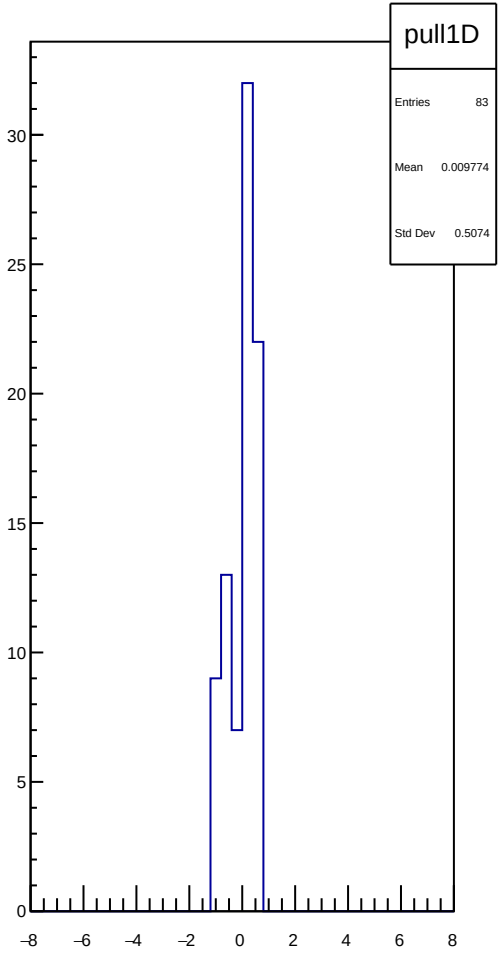

pull1D
Entries 83
Mean 0.08177
Std Dev 0.5305

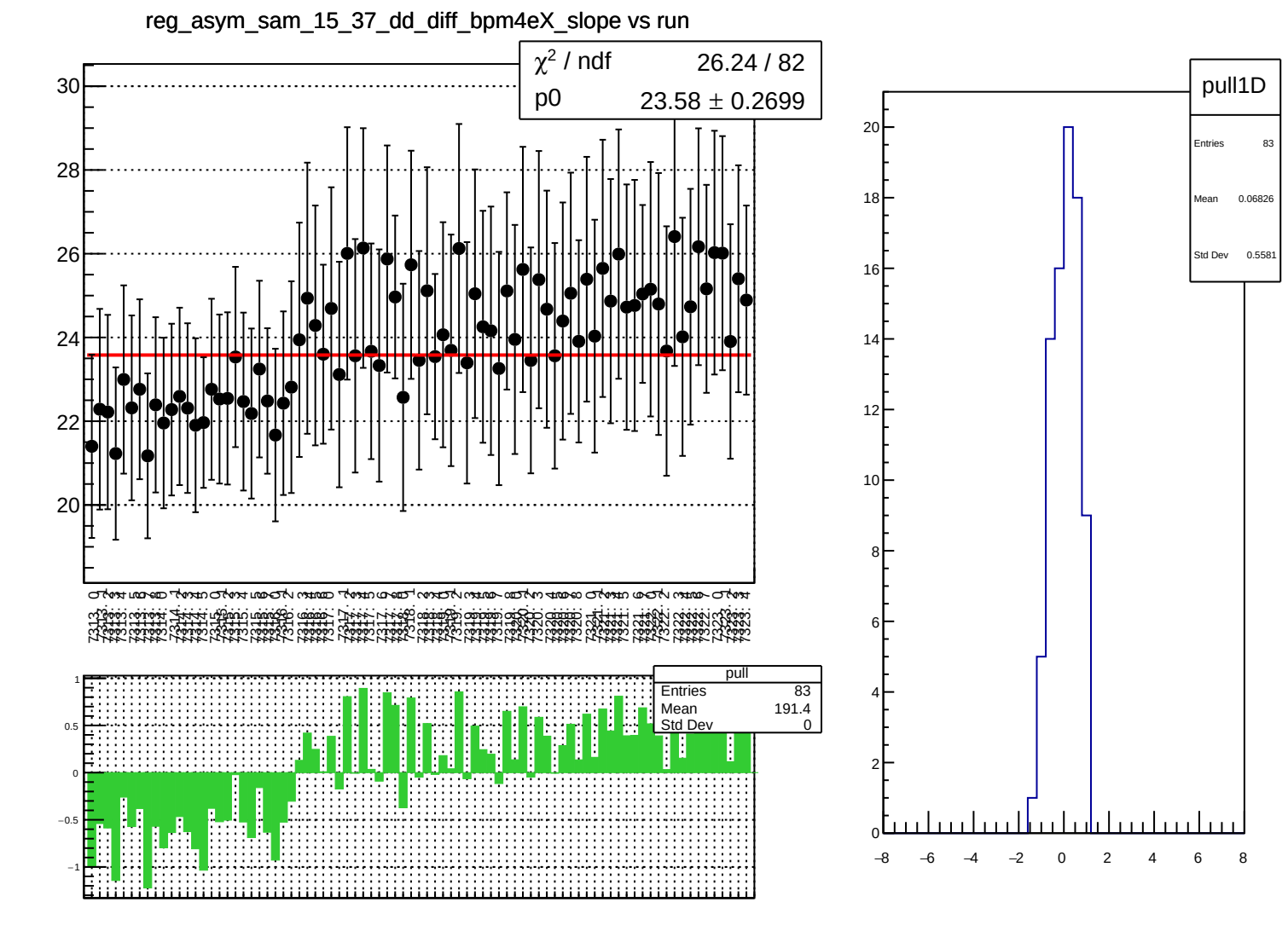

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.45 / 82
p0 −10.71 ± 0.2987
pull
Entries 83
Mean 661.2
Std Dev 0
pull1D
Entries 83
Mean −0.006295
Std Dev 0.3374

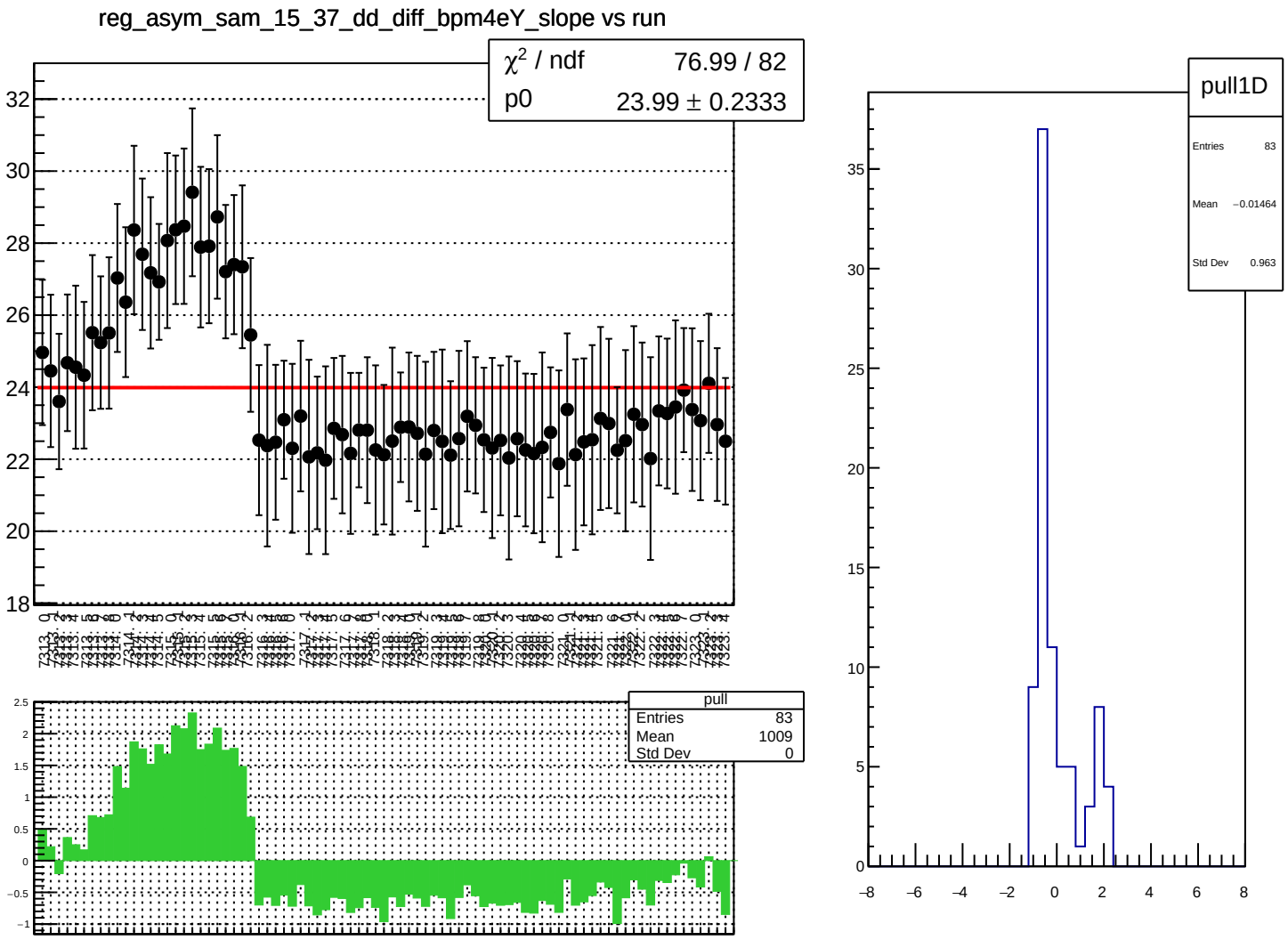

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 13.93 / 82
p0 0.2548 ± 0.01231
pull
Entries 83
Mean 1.967e+05
Std Dev 0
pull1D
Entries 83
Mean −2.328e−05
Std Dev 0.4097

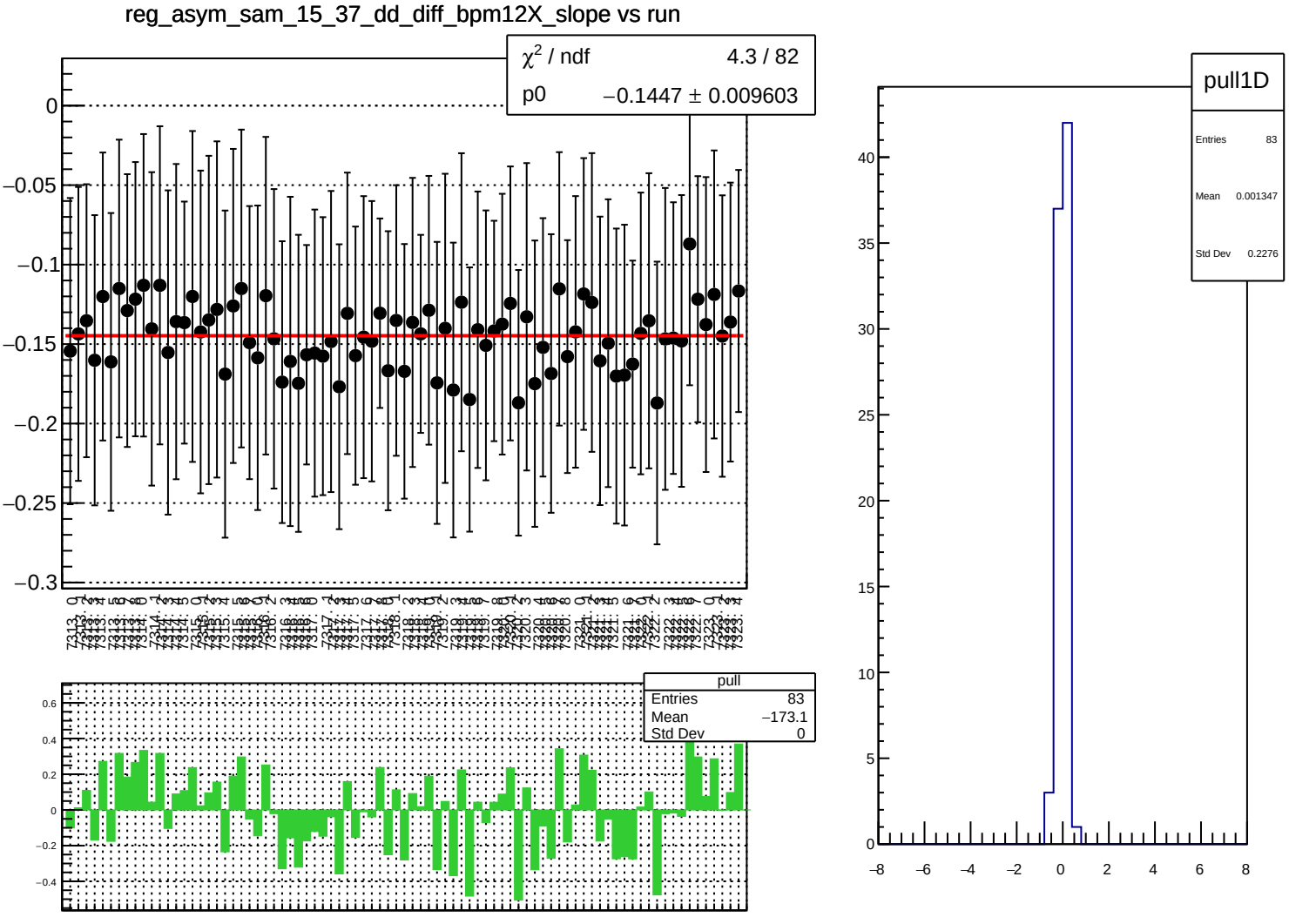

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 93.24 / 82
p0 2.17 ± 0.2716
pull
Entries 83
Mean 176
Std Dev 0
pull1D
Entries 83
Mean −0.1371
Std Dev 1.051

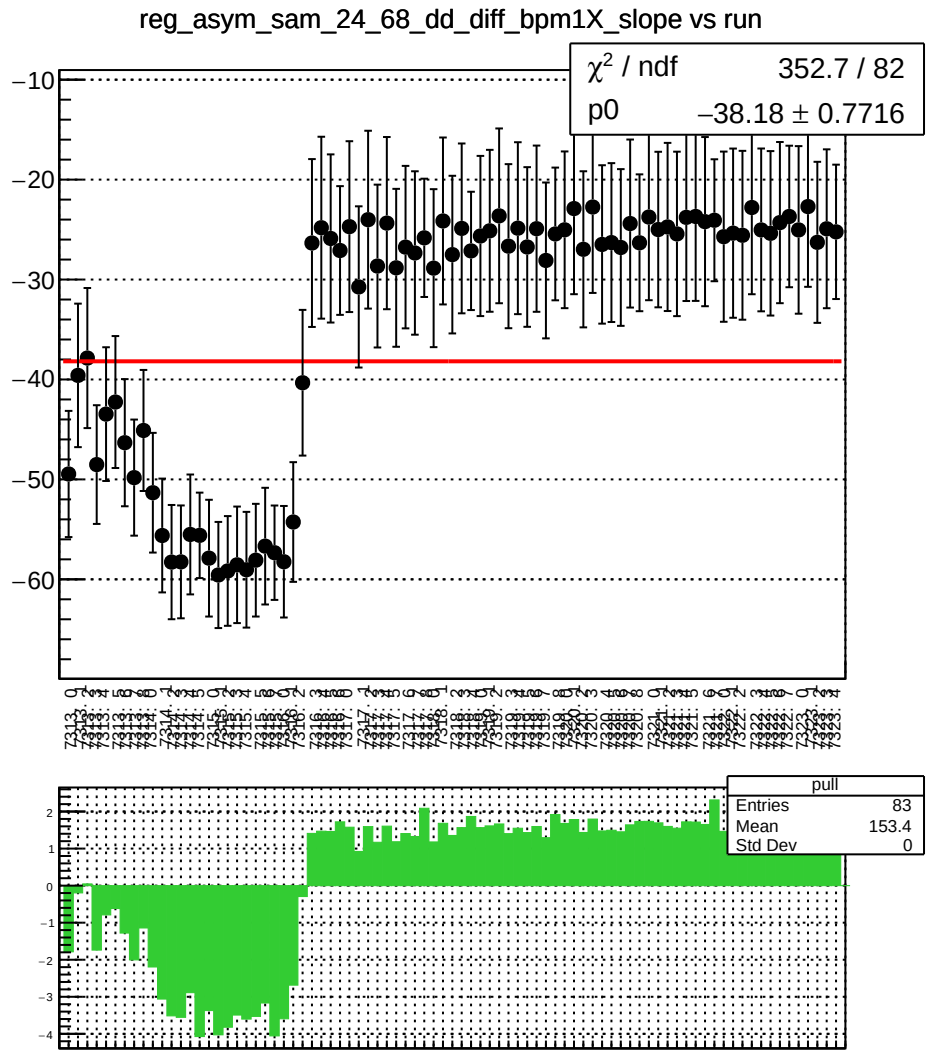

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.38 / 82
p0 −2.549 ± 0.215
pull
Entries 83
Mean 833.9
Std Dev 0

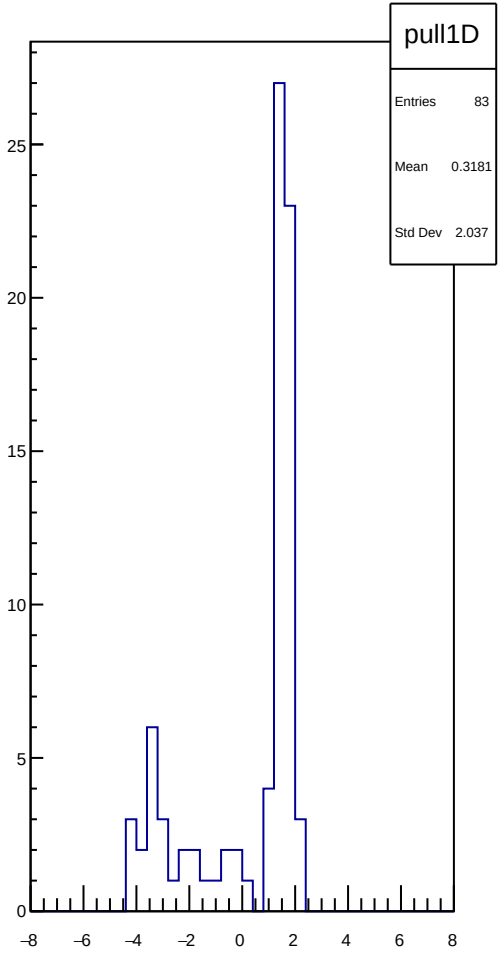

pull1D
Entries 83
Mean 0.009774
Std Dev 0.5074

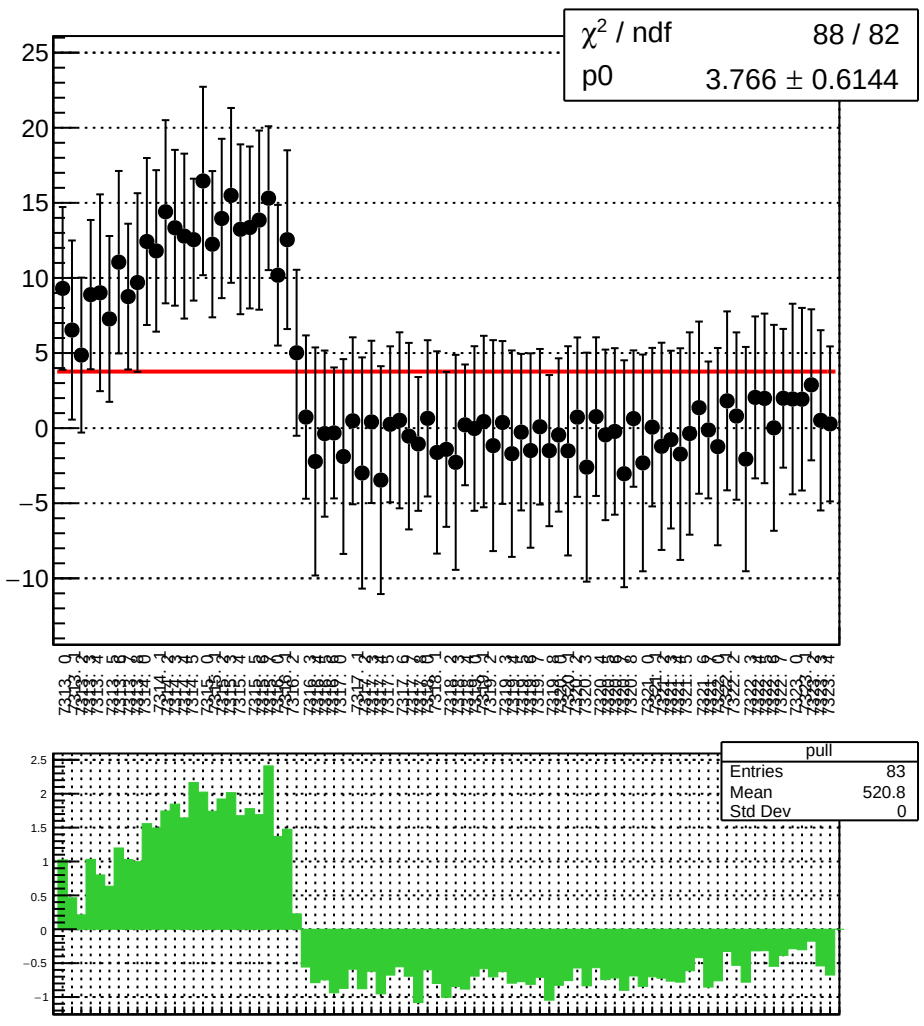

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.24 / 82
p0 23.58 ± 0.2699
pull
Entries 83
Mean 191.4
Std Dev 0
pull1D
Entries 83
Mean 0.06826
Std Dev 0.5581

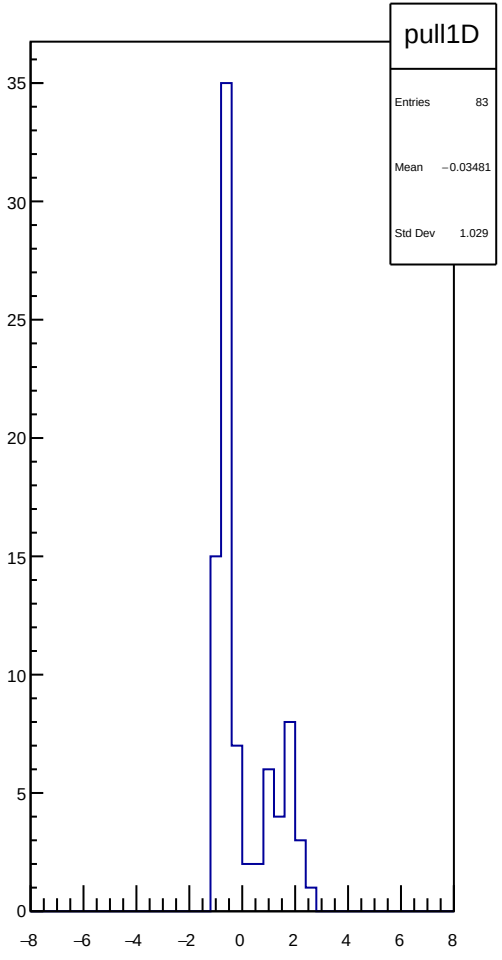

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.99 / 82
p0 23.99 ± 0.2333
pull
Entries 83
Mean 1009
Std Dev 0
pull1D
Entries 83
Mean −0.01464
Std Dev 0.963

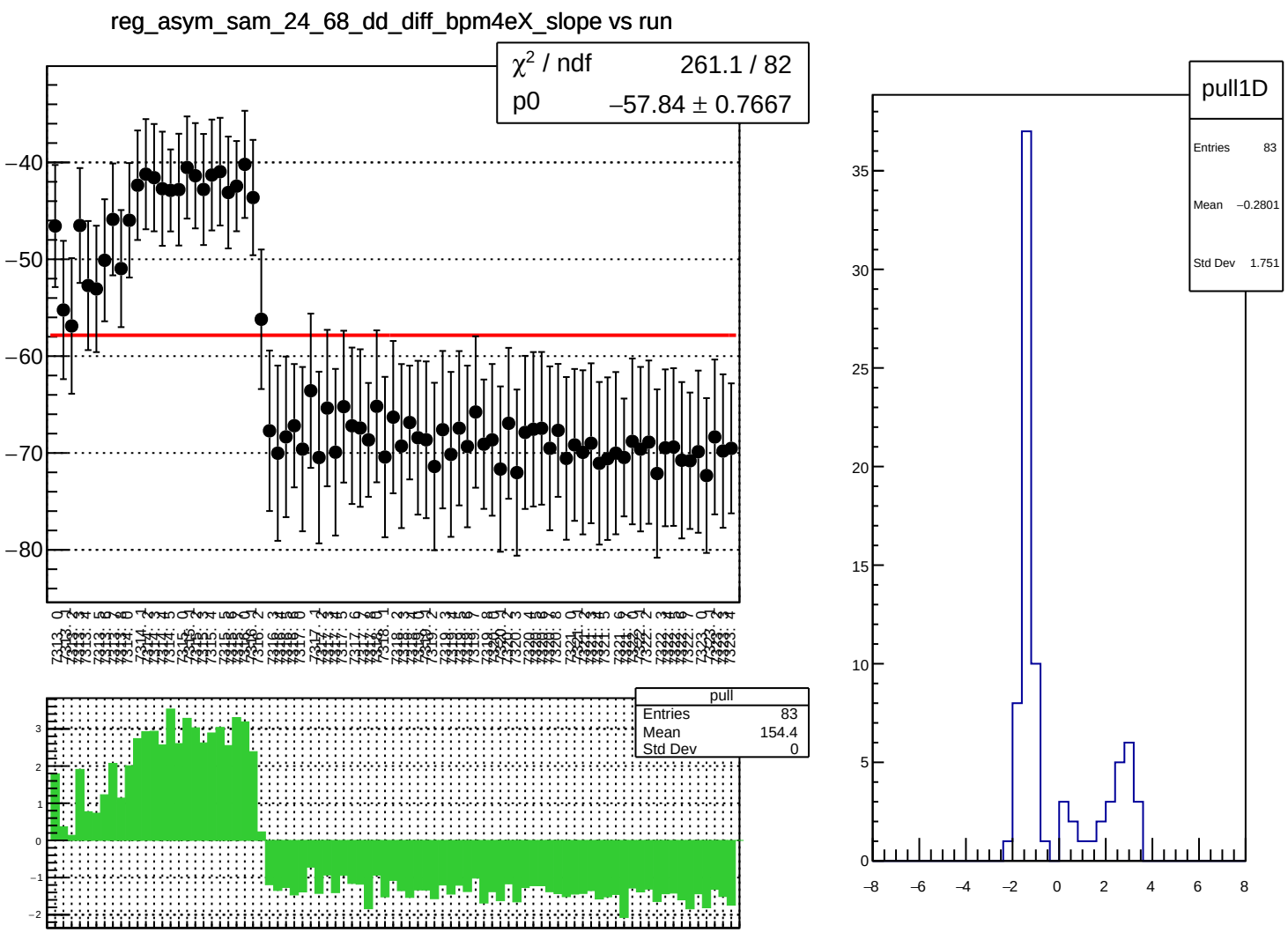

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.3 / 82
p0 −0.1447 ± 0.009603
pull
Entries 83
Mean −173.1
Std Dev 0
pull1D
Entries 83
Mean 0.001347
Std Dev 0.2276

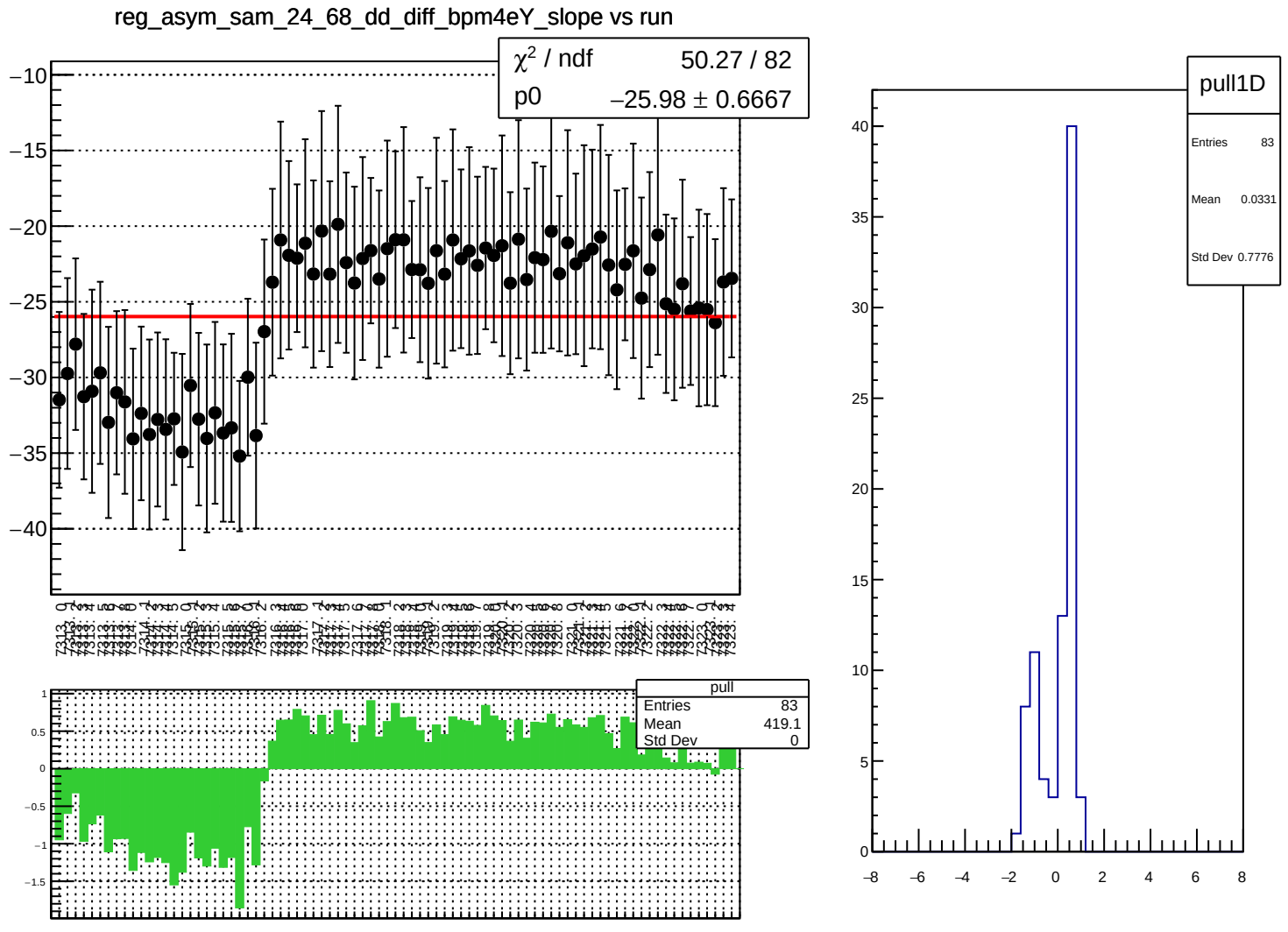

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 352.7 / 82
p0 −38.18 ± 0.7716
pull
Entries 83
Mean 153.4
Std Dev 0

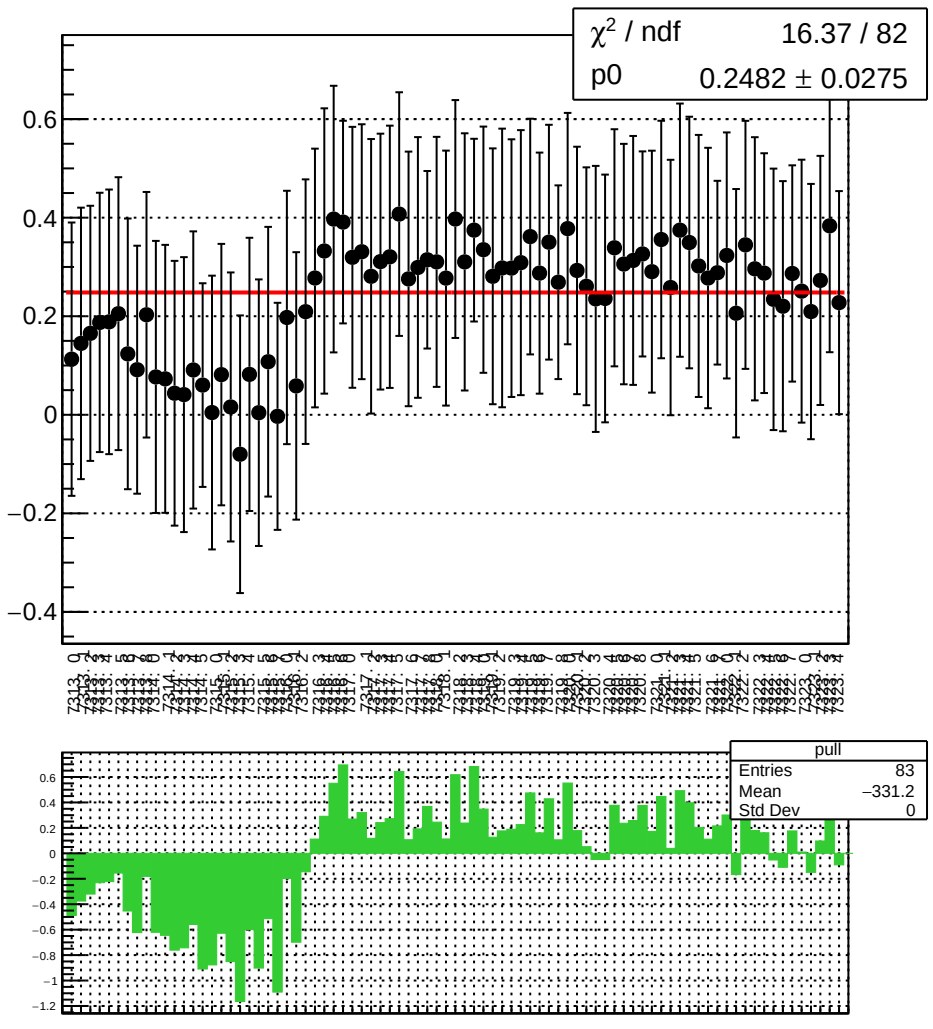

pull1D
Entries 83
Mean 0.3181
Std Dev 2.037

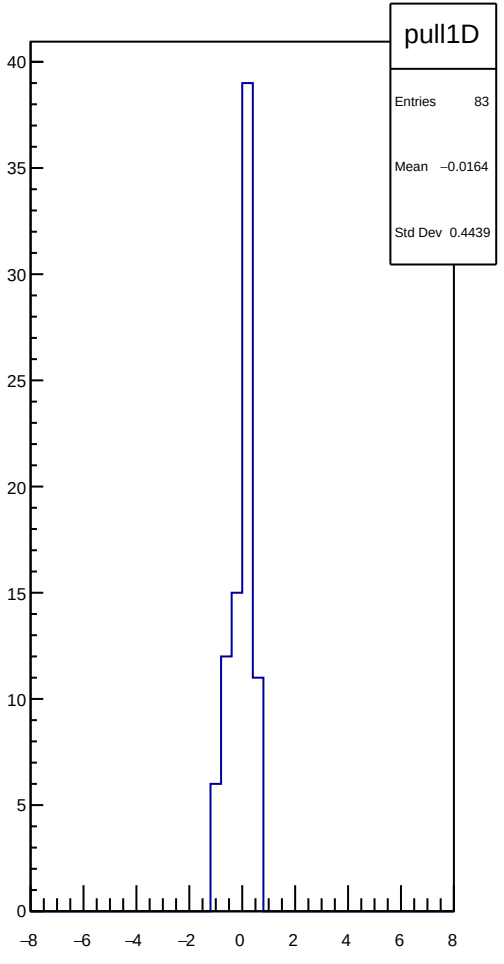

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 88 / 82
p0 3.766 ± 0.6144
pull
Entries 83
Mean 520.8
Std Dev 0

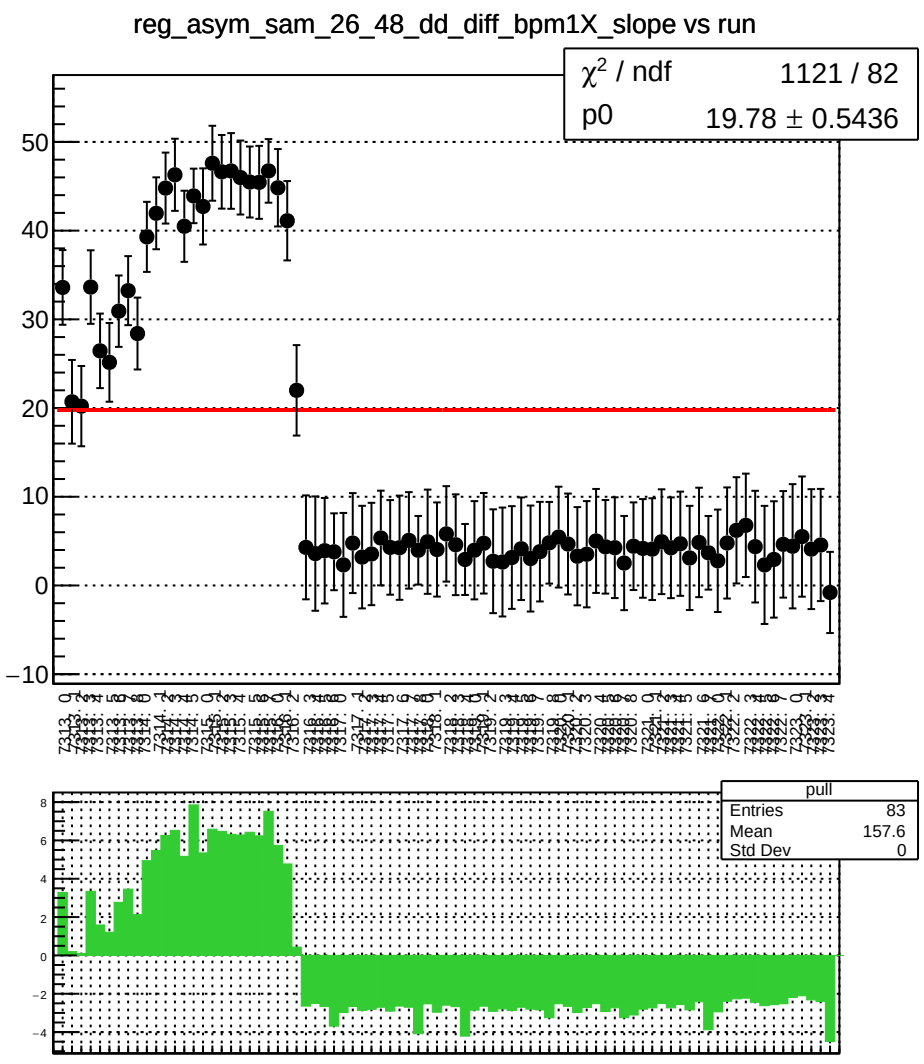

pull1D
Entries 83
Mean −0.03481
Std Dev 1.029

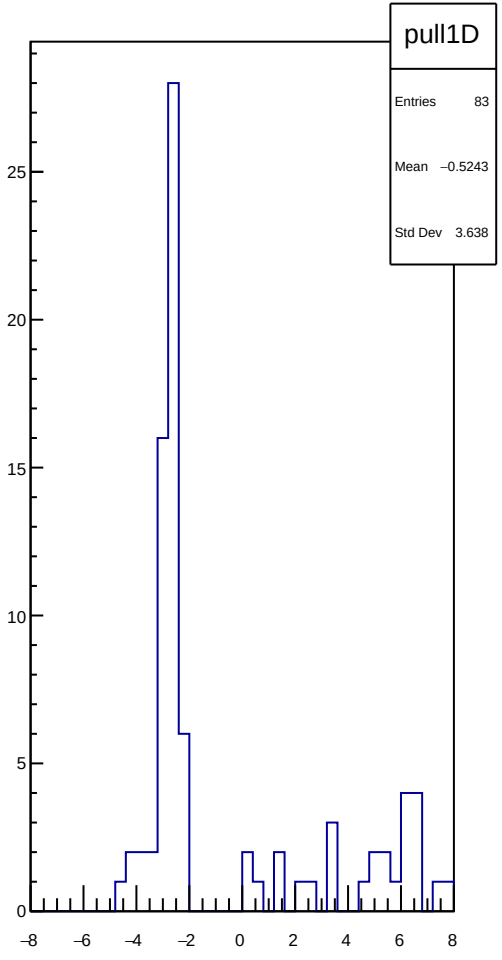

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 261.1 / 82
p0 −57.84 ± 0.7667
−40
−50
−60
−70
−80
pull
Entries 83
Mean 154.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.2801
Std Dev 1.751
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

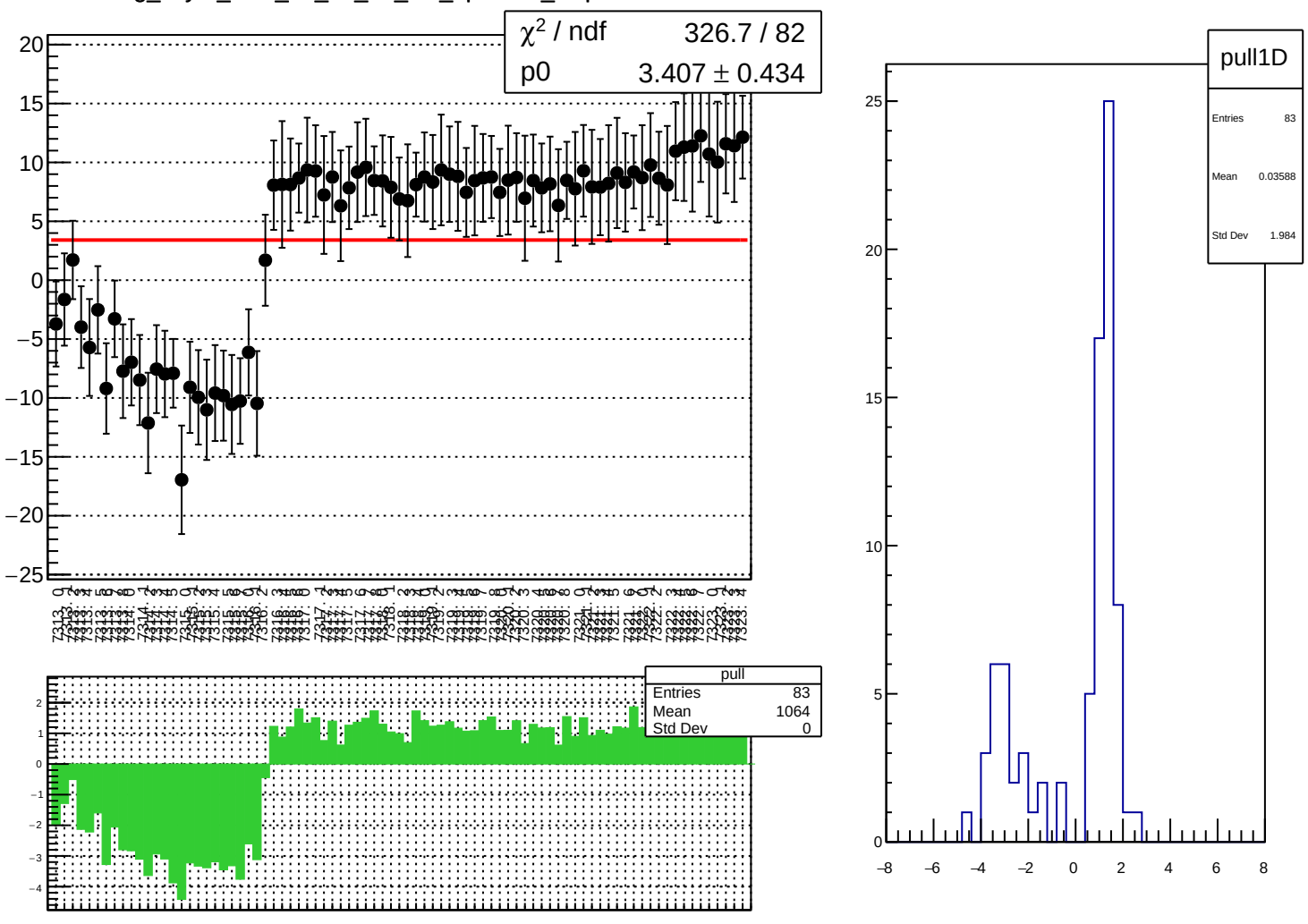

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.27 / 82
p0 −25.98 ± 0.6667
pull
Entries 83
Mean 419.1
Std Dev 0
pull1D
Entries 83
Mean 0.0331
Std Dev 0.7776

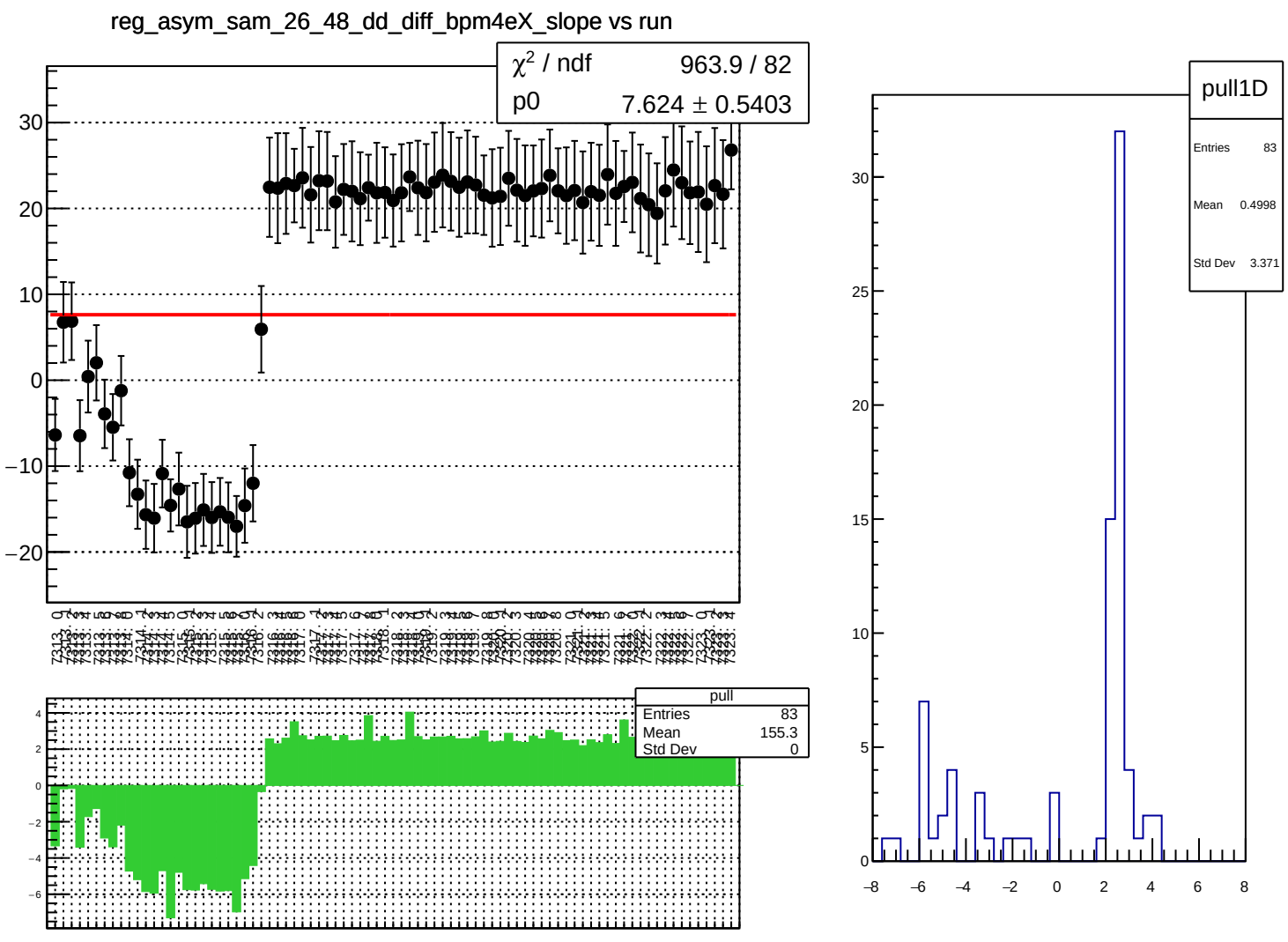

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 16.37 / 82
p0 0.2482 ± 0.0275
pull
Entries 83
Mean −331.2
Std Dev 0

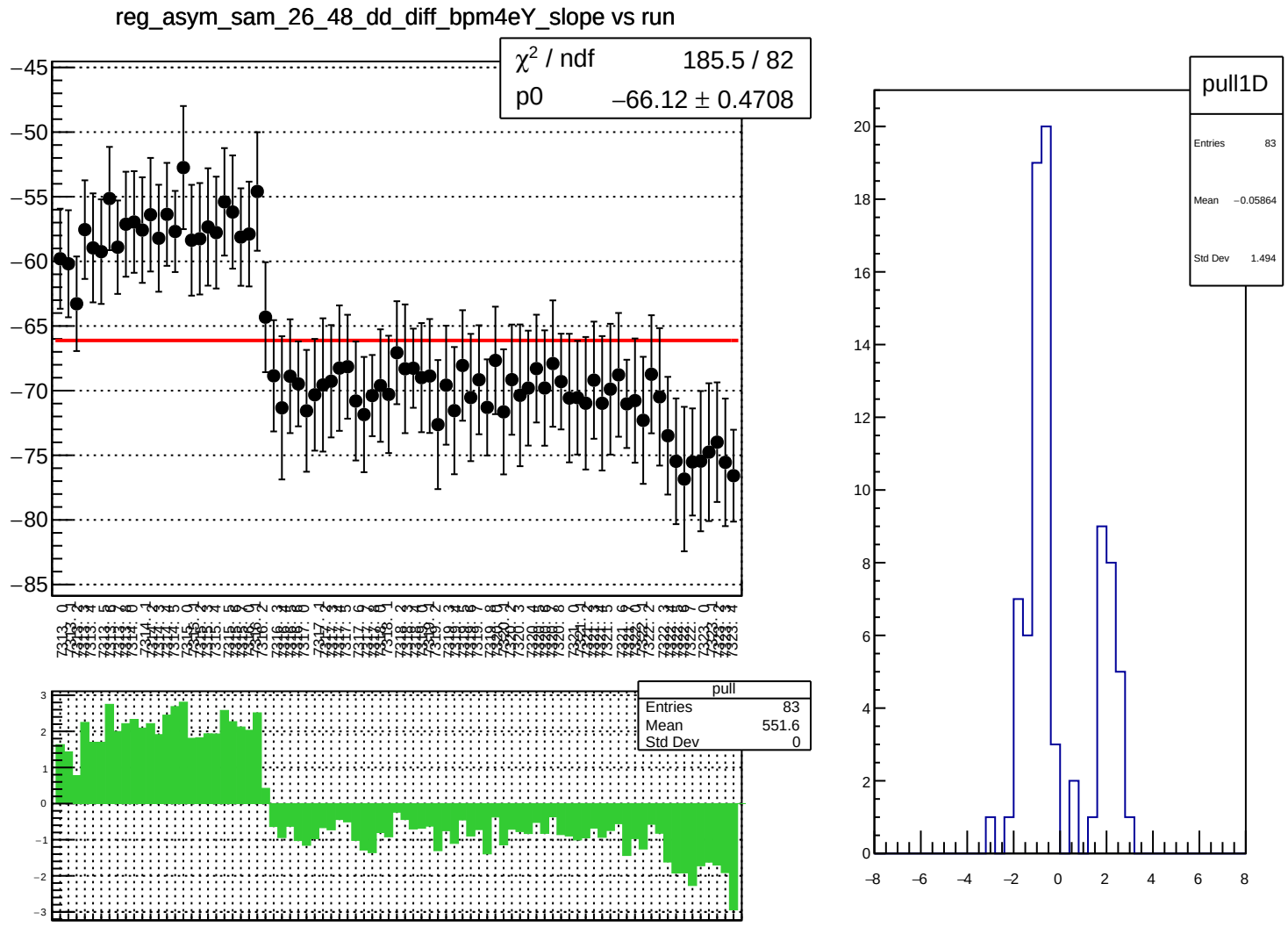

pull1D
Entries 83
Mean −0.0164
Std Dev 0.4439

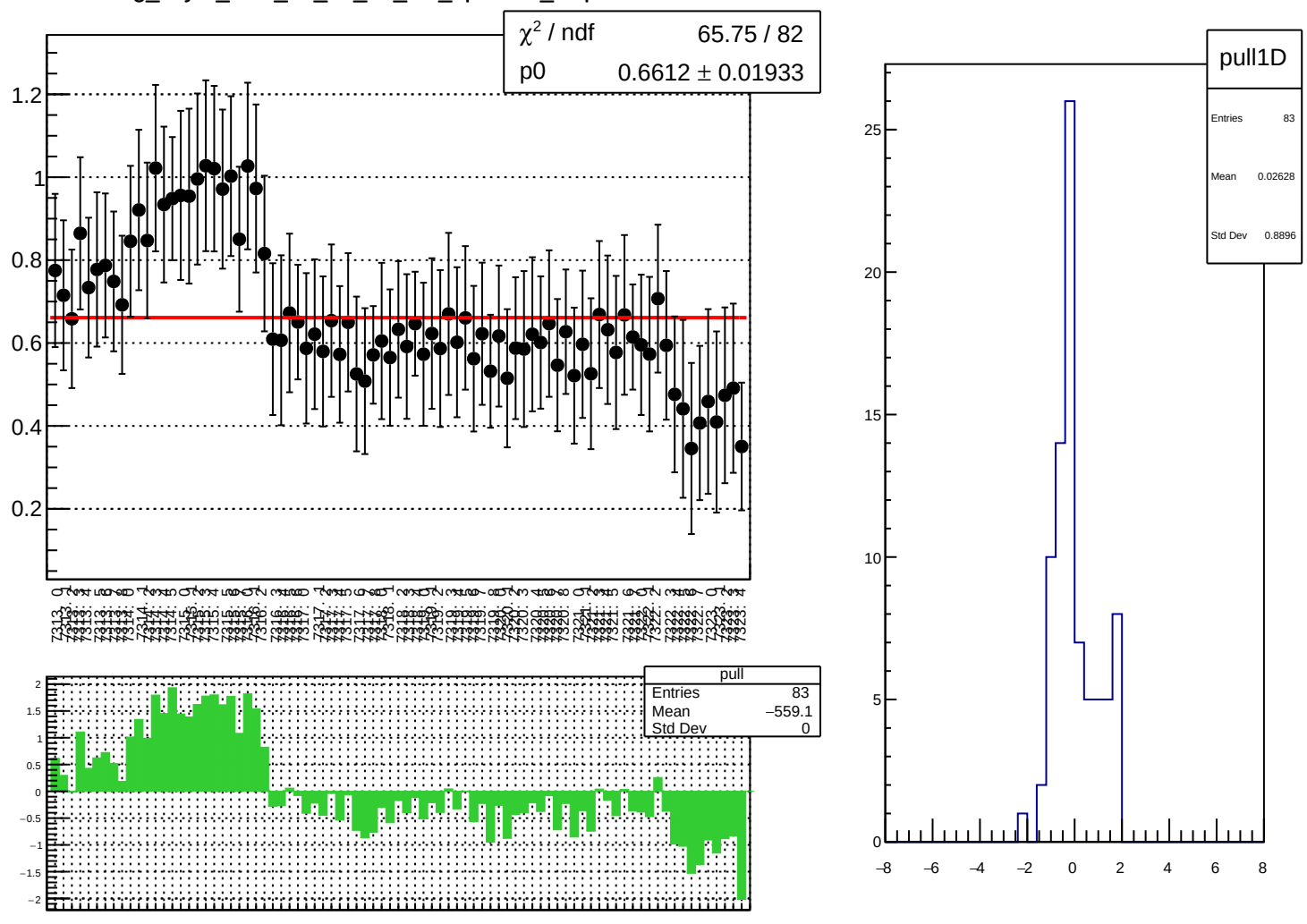

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1121 / 82
p0 19.78 ± 0.5436
pull
Entries 83
Mean 157.6
Std Dev 0

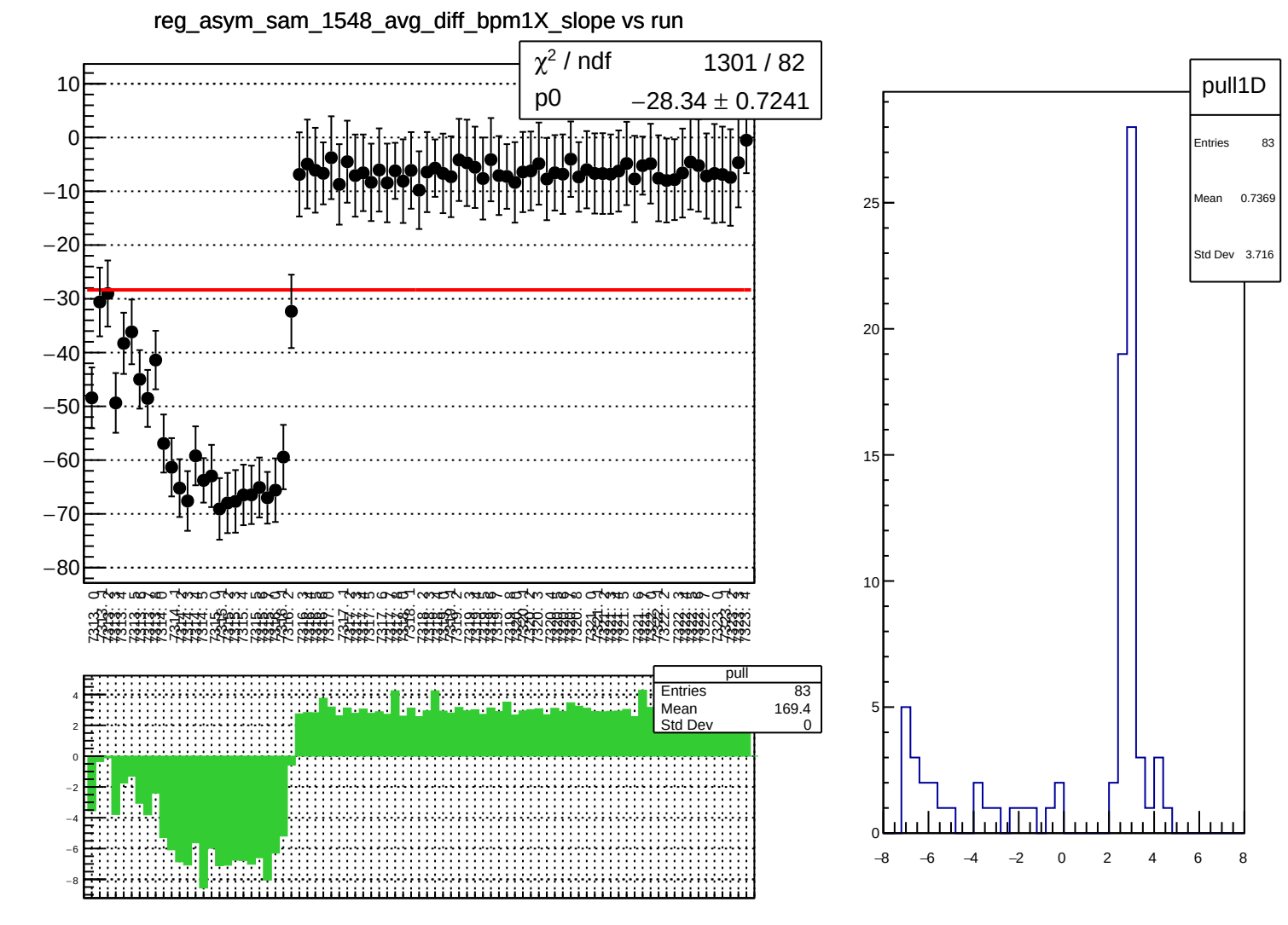

pull1D
Entries 83
Mean −0.5243
Std Dev 3.638

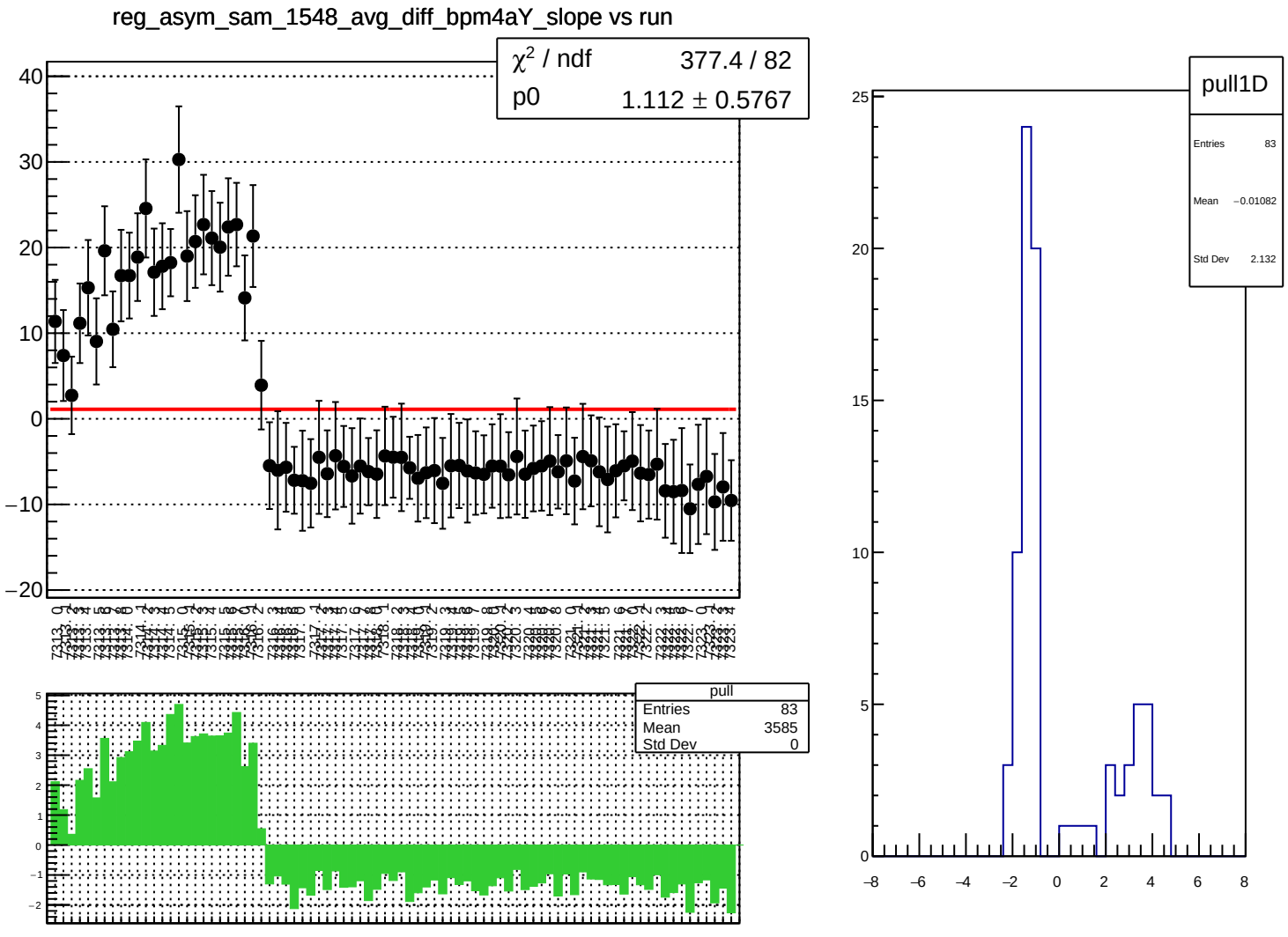

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 326.7 / 82
p0 3.407 ± 0.434
pull
Entries 83
Mean 1064
Std Dev 0
pull1D
Entries 83
Mean 0.03588
Std Dev 1.984

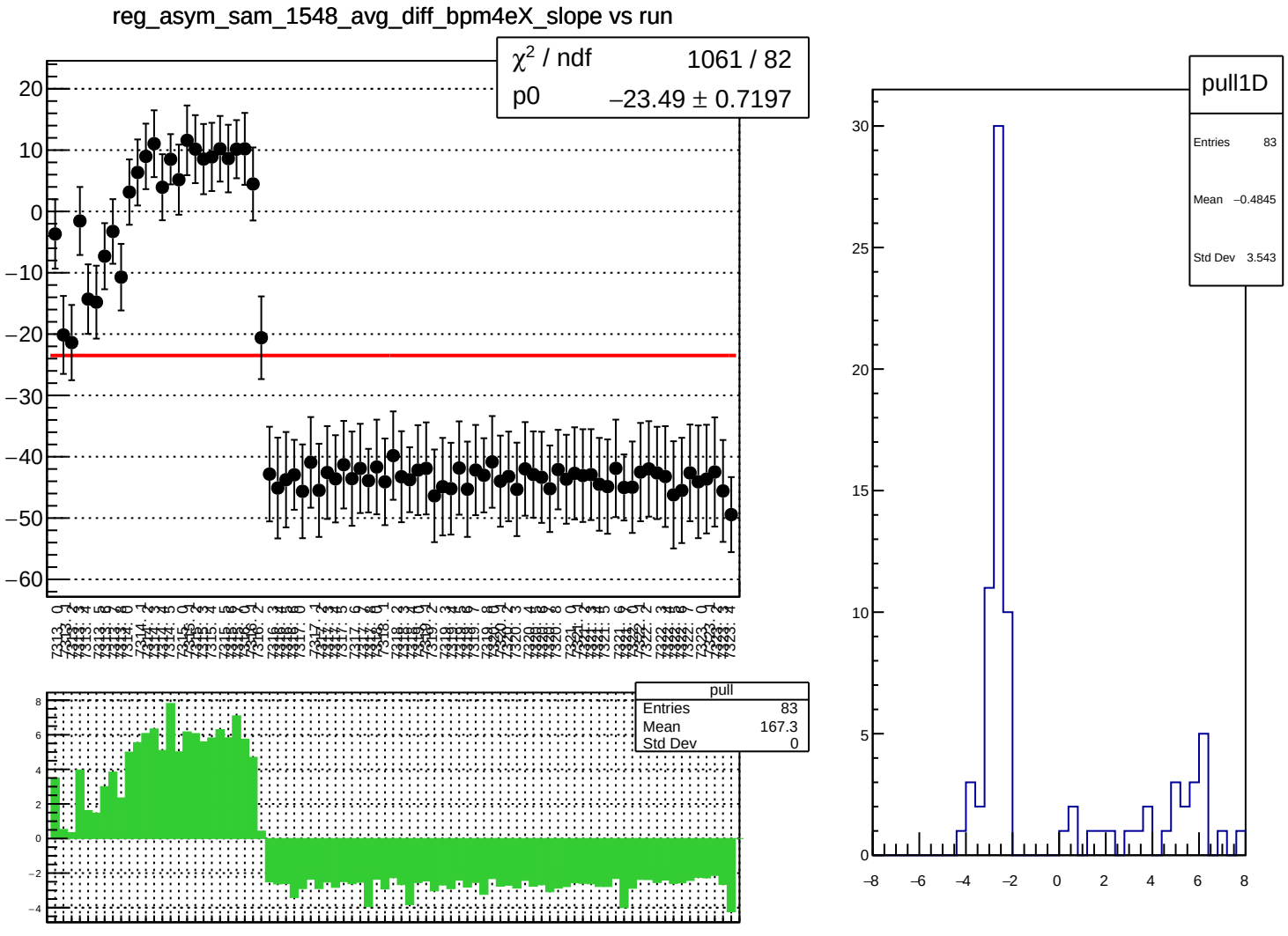

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 963.9 / 82
p0 7.624 ± 0.5403
pull
Entries 83
Mean 155.3
Std Dev 0
pull1D
Entries 83
Mean 0.4998
Std Dev 3.371

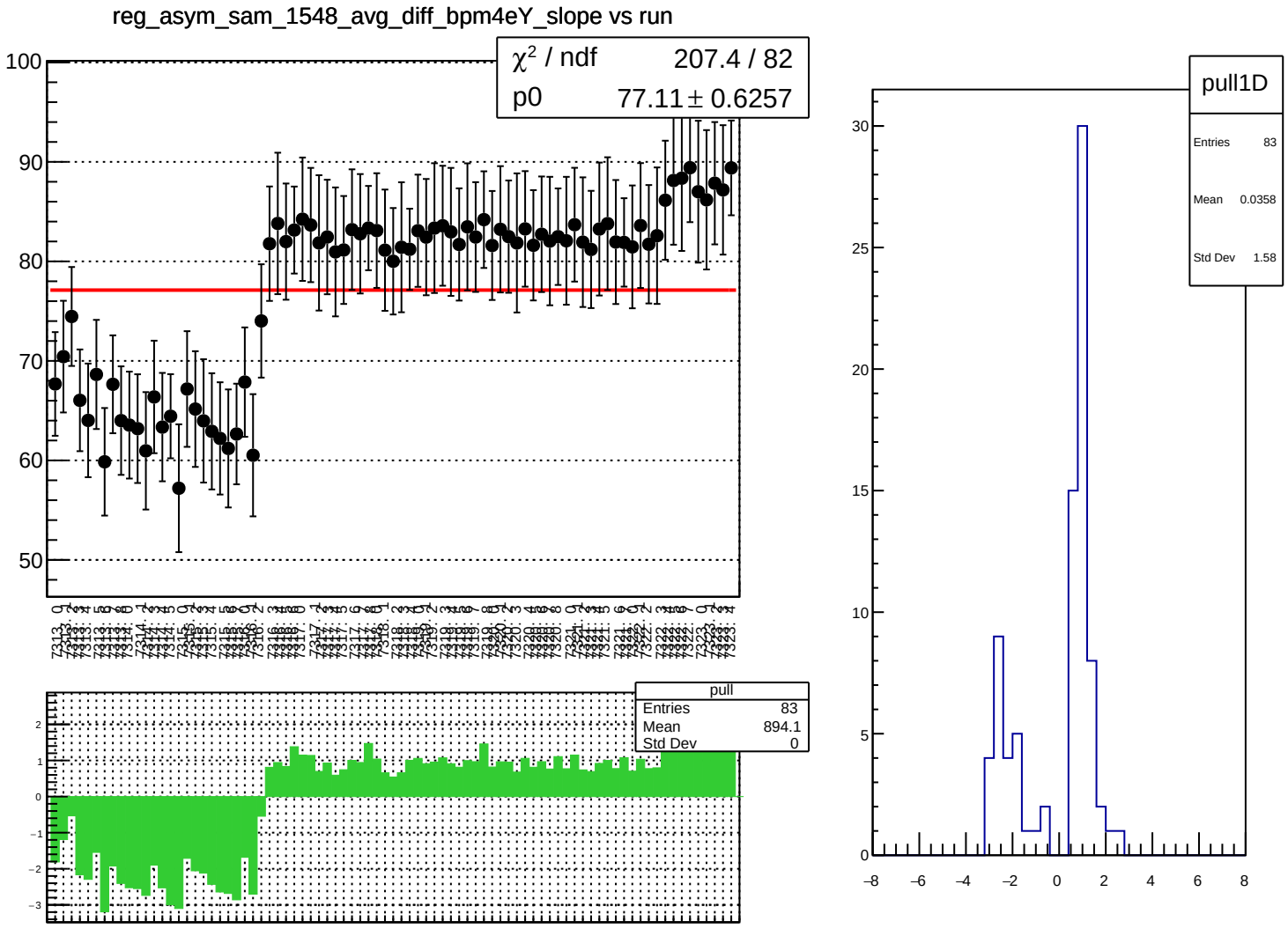

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 185.5 / 82
p0 −66.12 ± 0.4708
pull
Entries 83
Mean 551.6
Std Dev 0
pull1D
Entries 83
Mean −0.05864
Std Dev 1.494

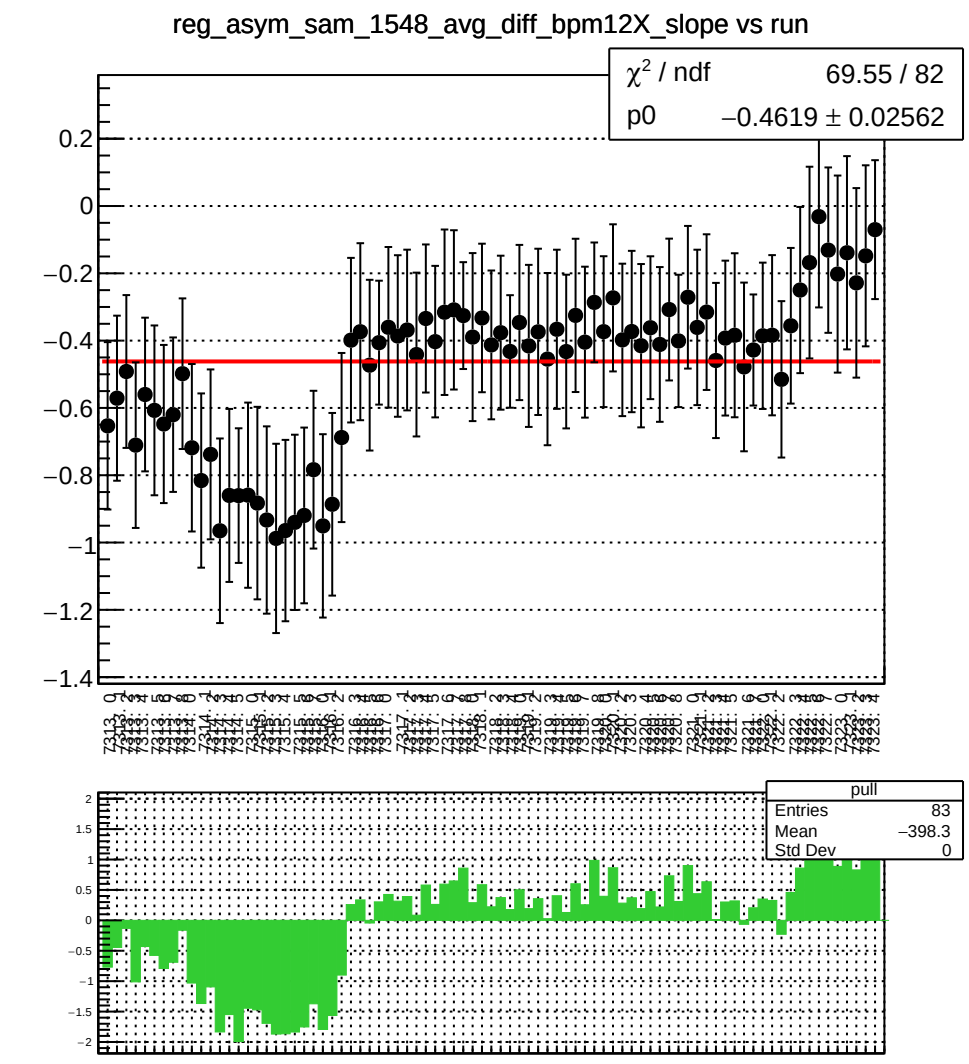

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 65.75 / 82
p0 0.6612 ± 0.01933
pull
Entries 83
Mean −559.1
Std Dev 0
pull1D
Entries 83
Mean 0.02628
Std Dev 0.8896

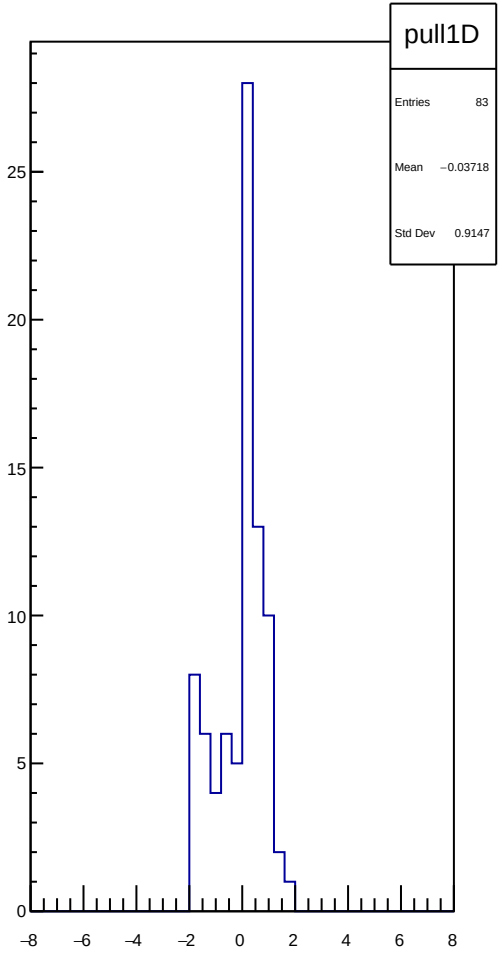

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1301 / 82
p0 −28.34 ± 0.7241
pull
Entries 83
Mean 169.4
Std Dev 0
pull1D
Entries 83
Mean 0.7369
Std Dev 3.716

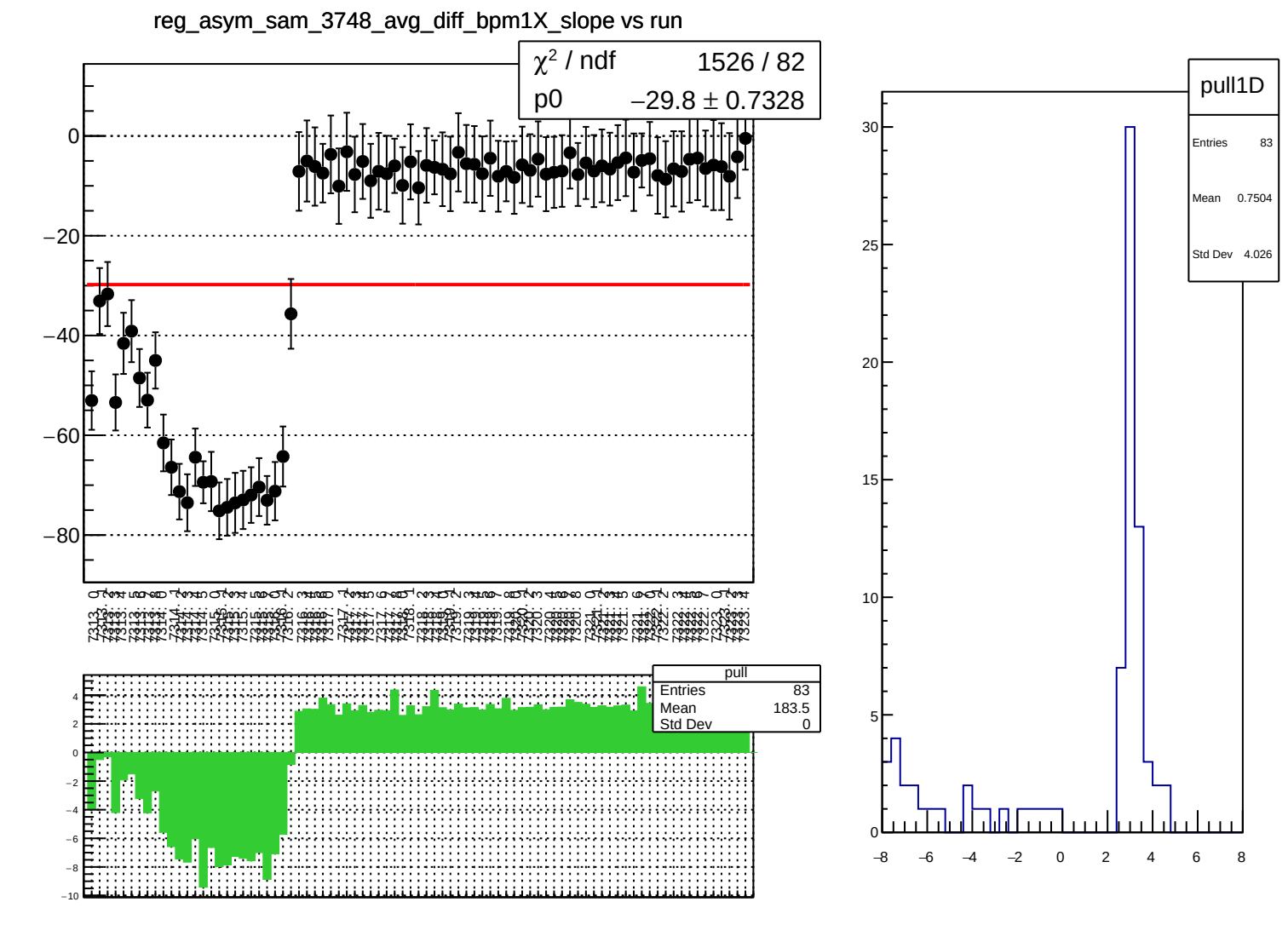

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 377.4 / 82
p0 1.112 ± 0.5767
pull
Entries 83
Mean 3585
Std Dev 0
pull1D
Entries 83
Mean −0.01082
Std Dev 2.132

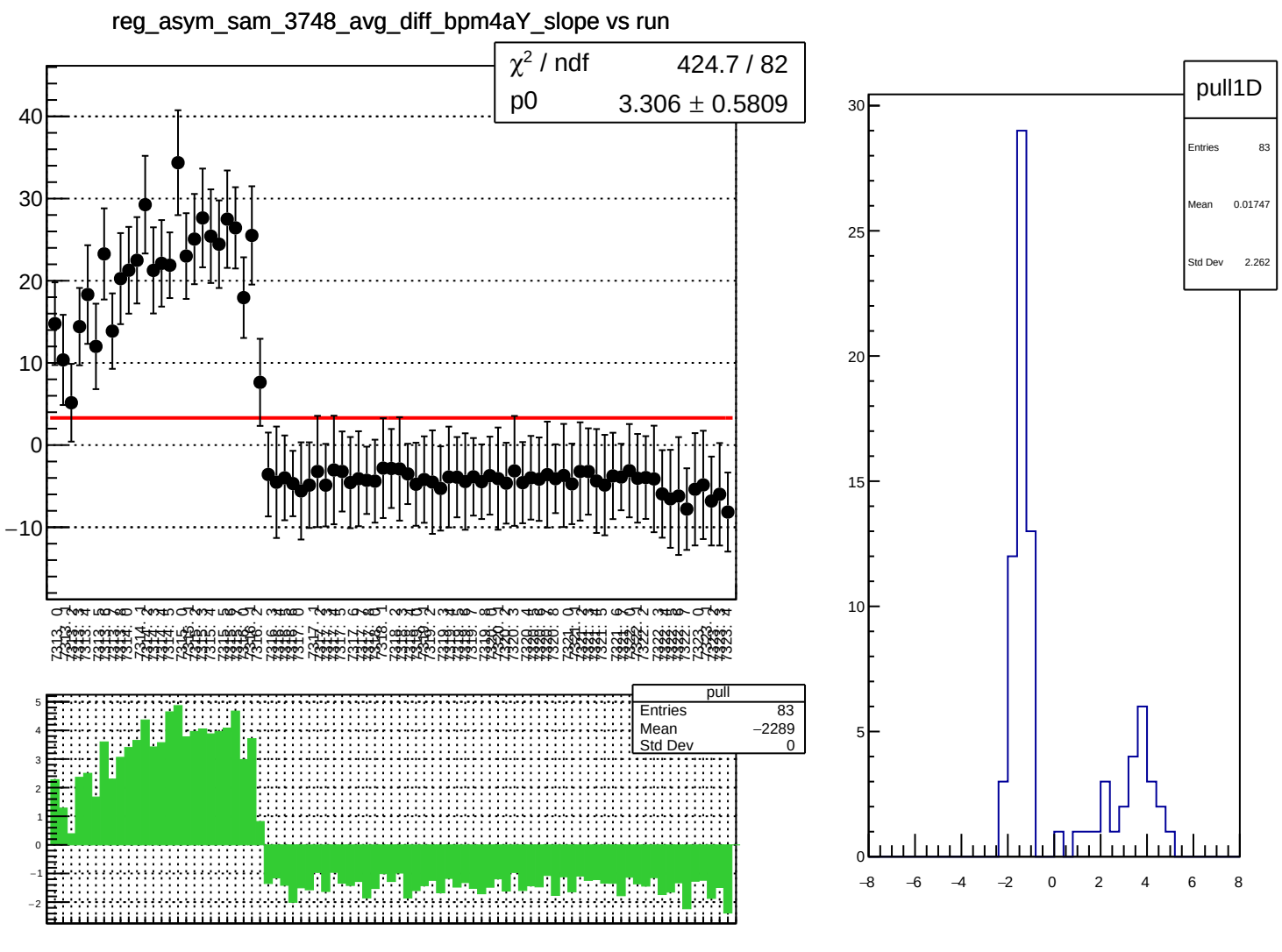

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1061 / 82
p0 −23.49 ± 0.7197
pull
Entries 83
Mean 167.3
Std Dev 0
pull1D
Entries 83
Mean −0.4845
Std Dev 3.543

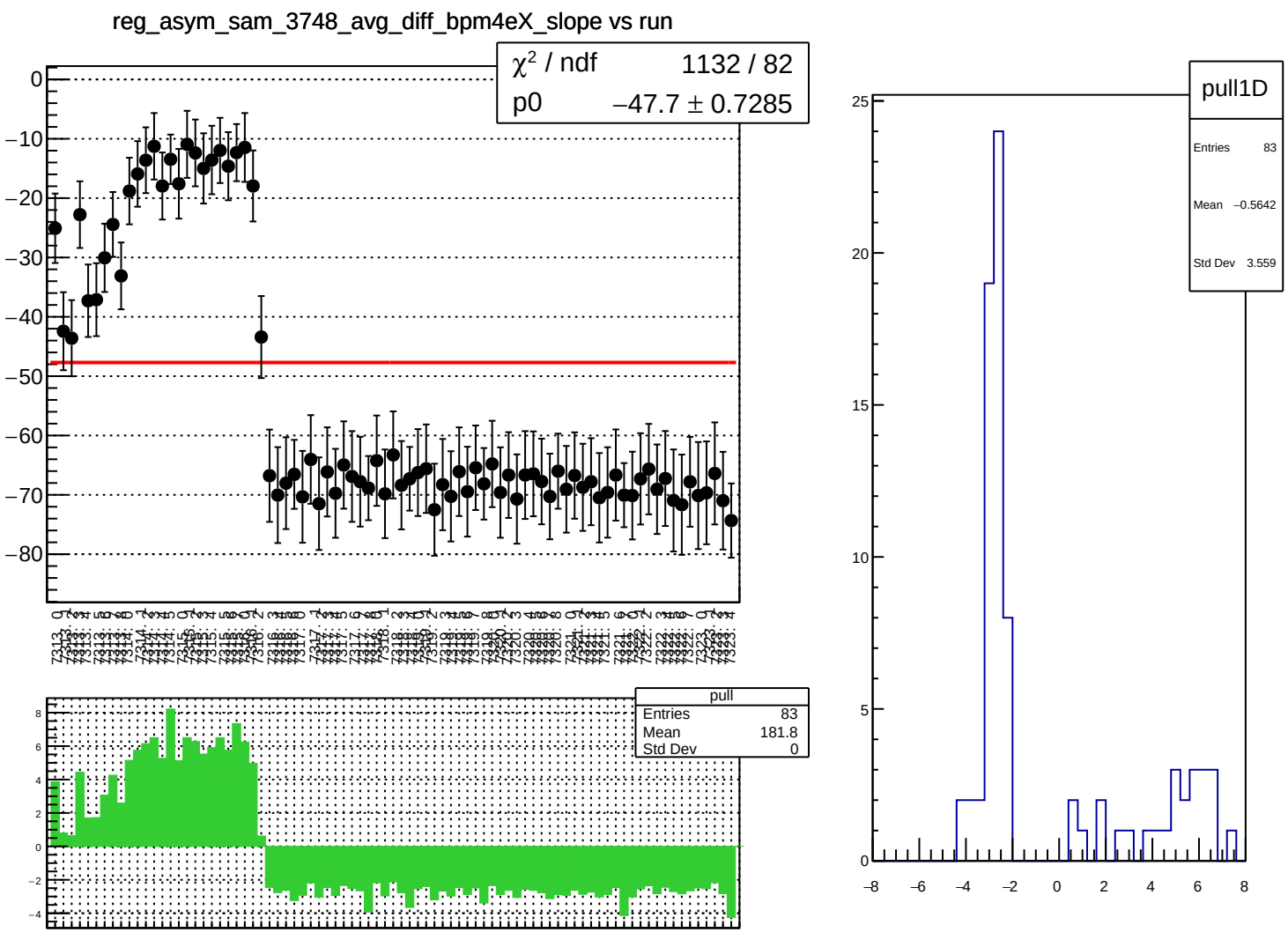

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 207.4 / 82
p0 77.11 ± 0.6257
pull
Entries 83
Mean 894.1
Std Dev 0
pull1D
Entries 83
Mean 0.0358
Std Dev 1.58

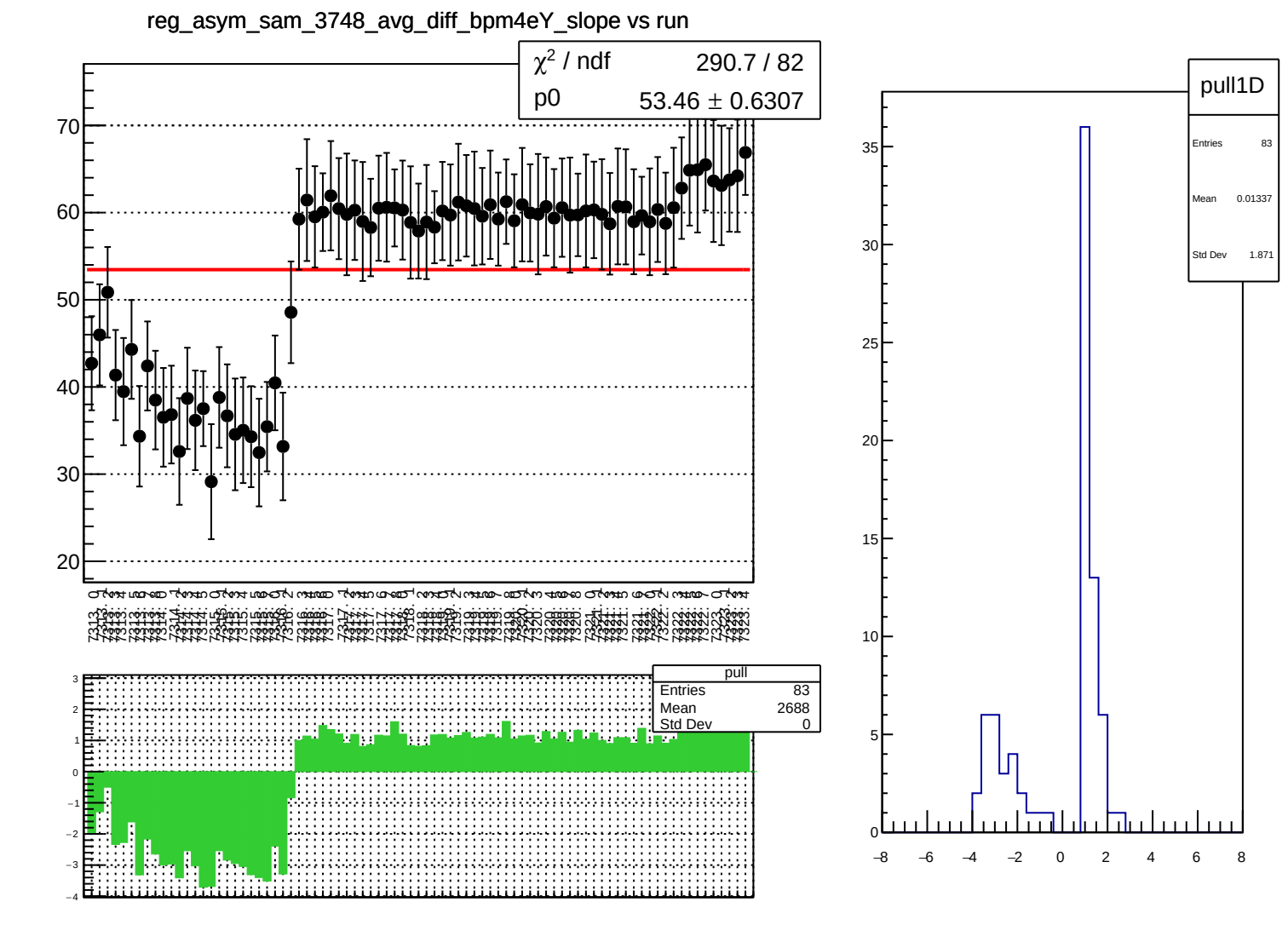

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 69.55 / 82
p0 −0.4619 ± 0.02562
pull
Entries 83
Mean −398.3
Std Dev 0

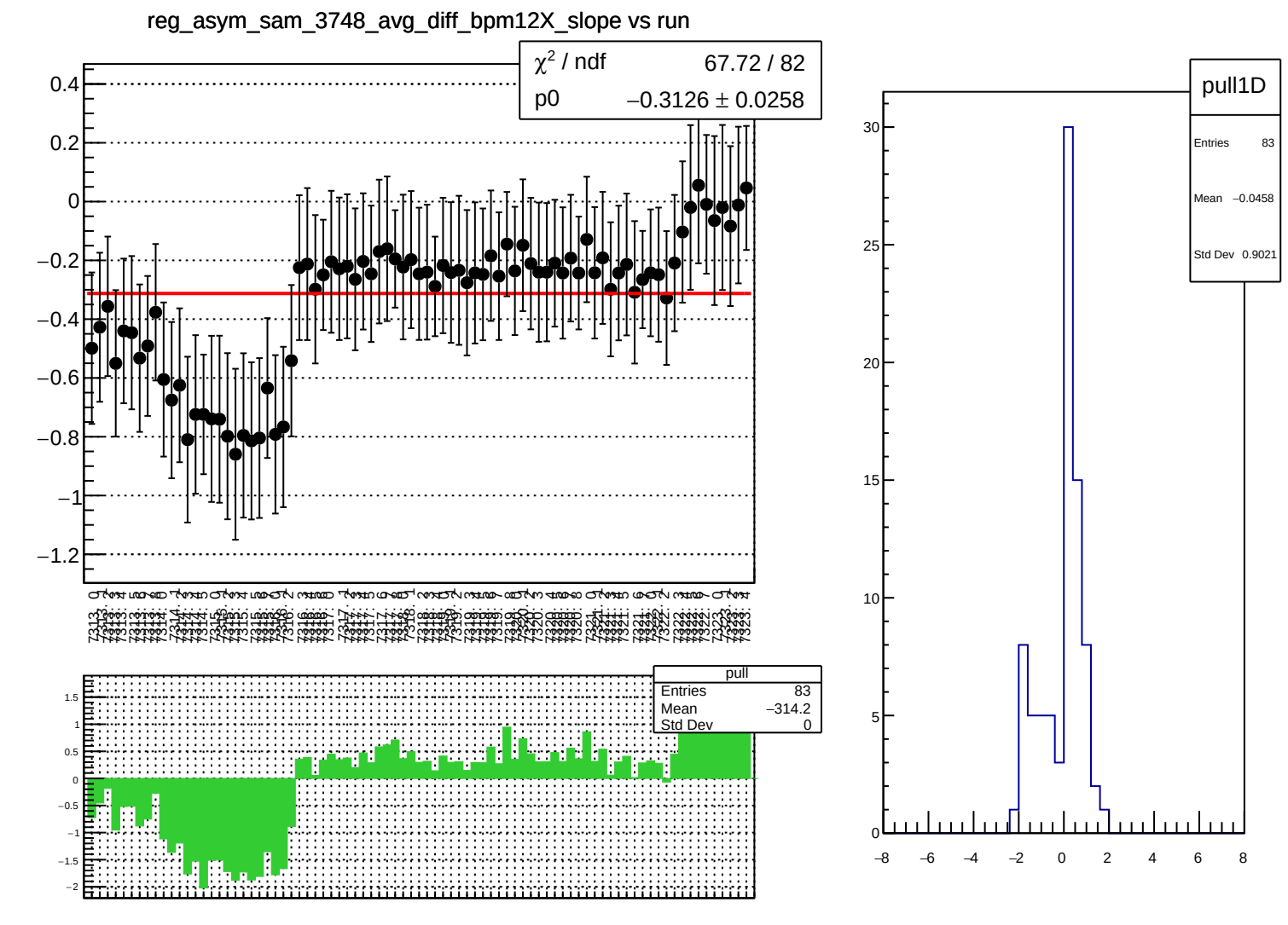

pull1D
Entries 83
Mean −0.03718
Std Dev 0.9147

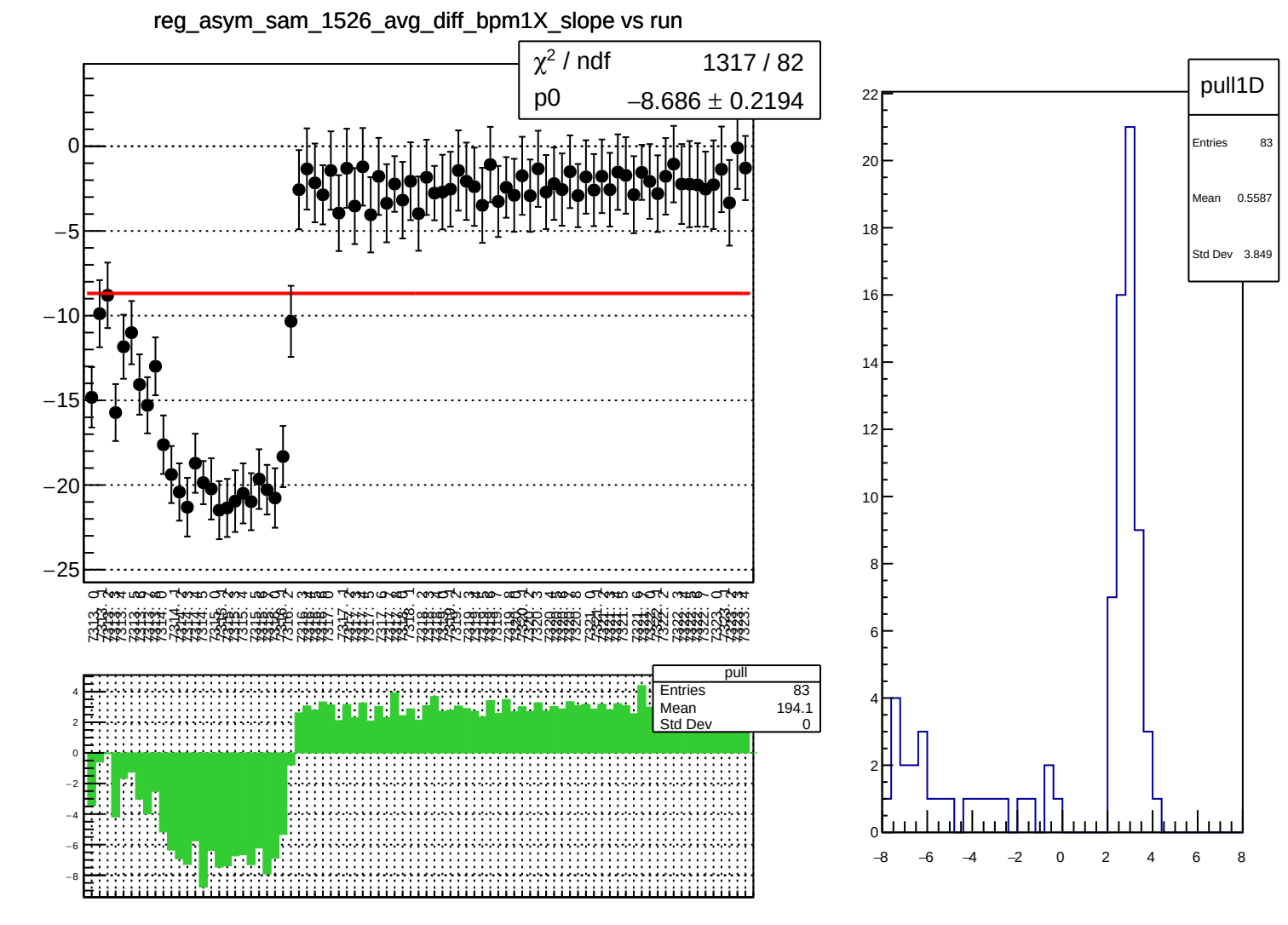

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1526 / 82
p0 −29.8 ± 0.7328
pull
Entries 83
Mean 183.5
Std Dev 0
pull1D
Entries 83
Mean 0.7504
Std Dev 4.026

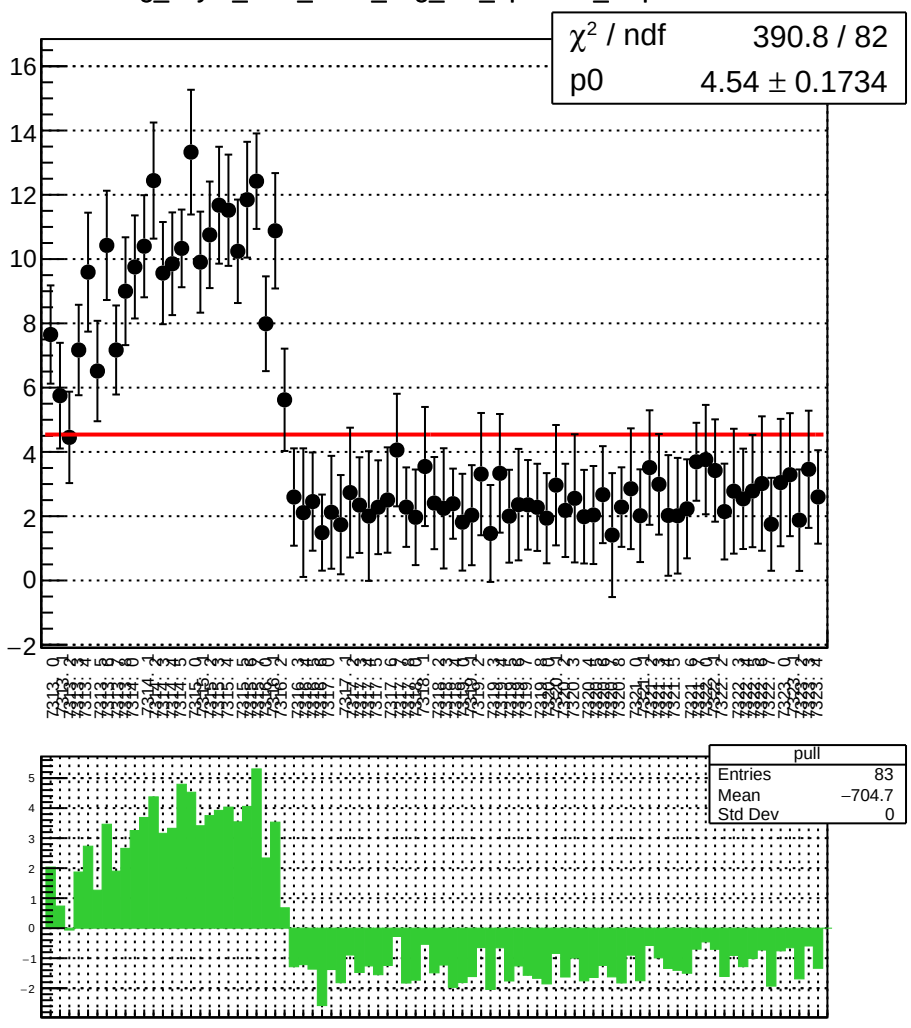

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 424.7 / 82
p0 3.306 ± 0.5809
pull
Entries 83
Mean −2289
Std Dev 0
pull1D
Entries 83
Mean 0.01747
Std Dev 2.262

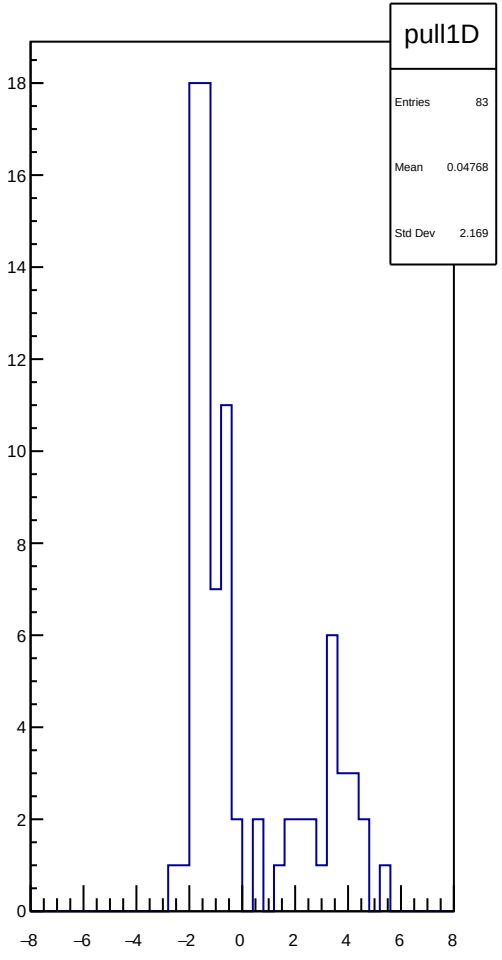

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1132 / 82
p0 −47.7 ± 0.7285
pull
Entries 83
Mean 181.8
Std Dev 0
pull1D
Entries 83
Mean −0.5642
Std Dev 3.559

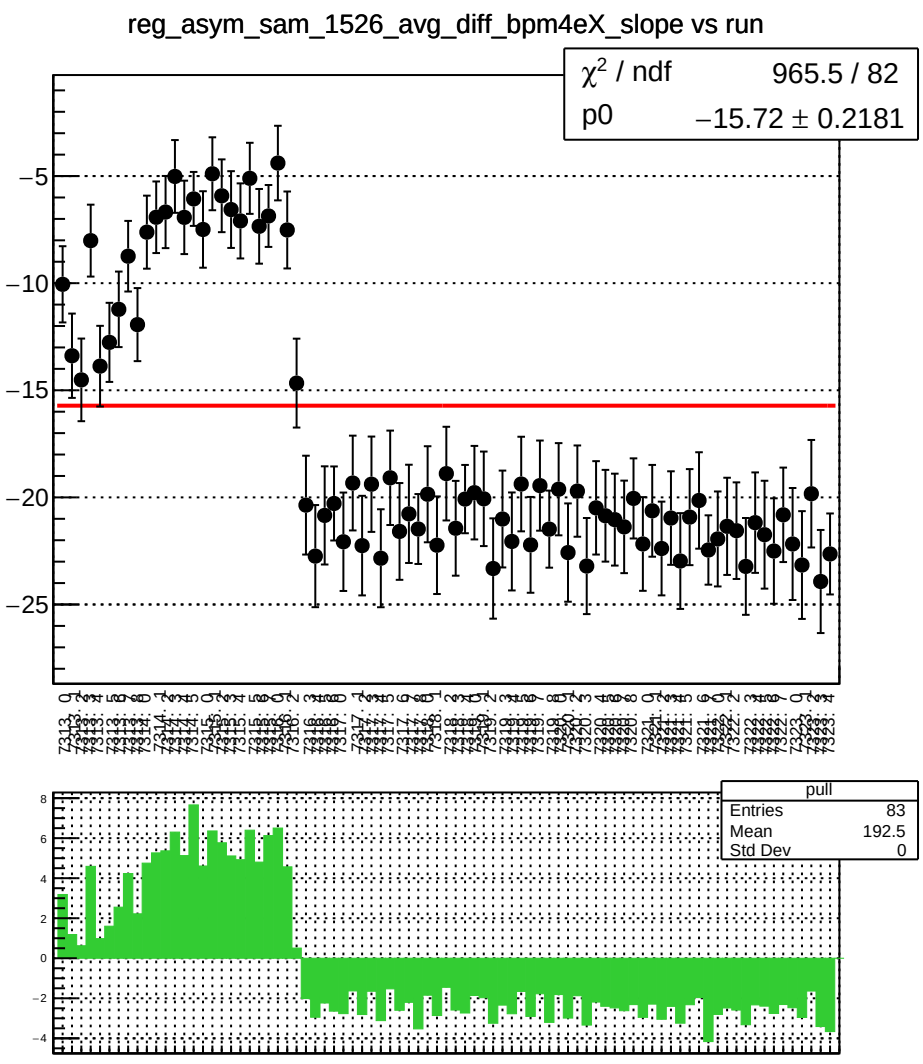

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 290.7 / 82
p0 53.46 ± 0.6307
pull
Entries 83
Mean 2688
Std Dev 0
pull1D
Entries 83
Mean 0.01337
Std Dev 1.871

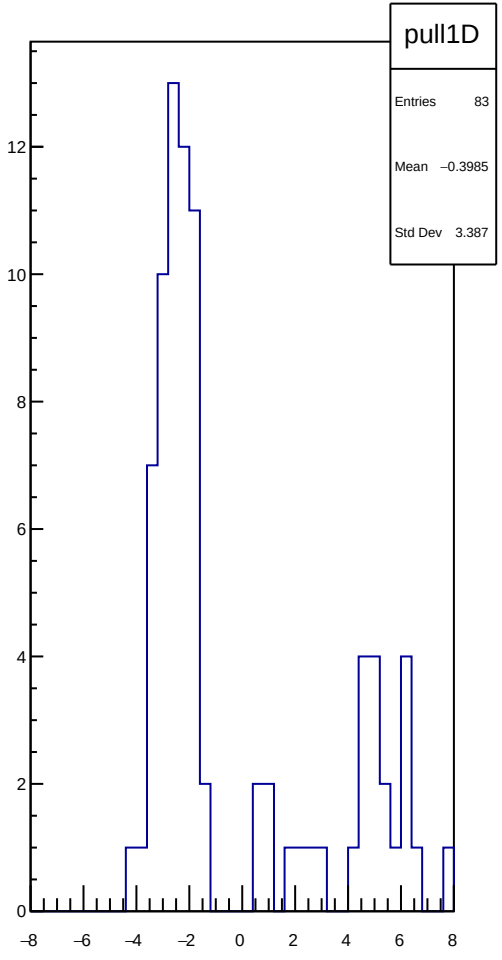

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 67.72 / 82
p0 −0.3126 ± 0.0258
pull
Entries 83
Mean −314.2
Std Dev 0
pull1D
Entries 83
Mean −0.0458
Std Dev 0.9021

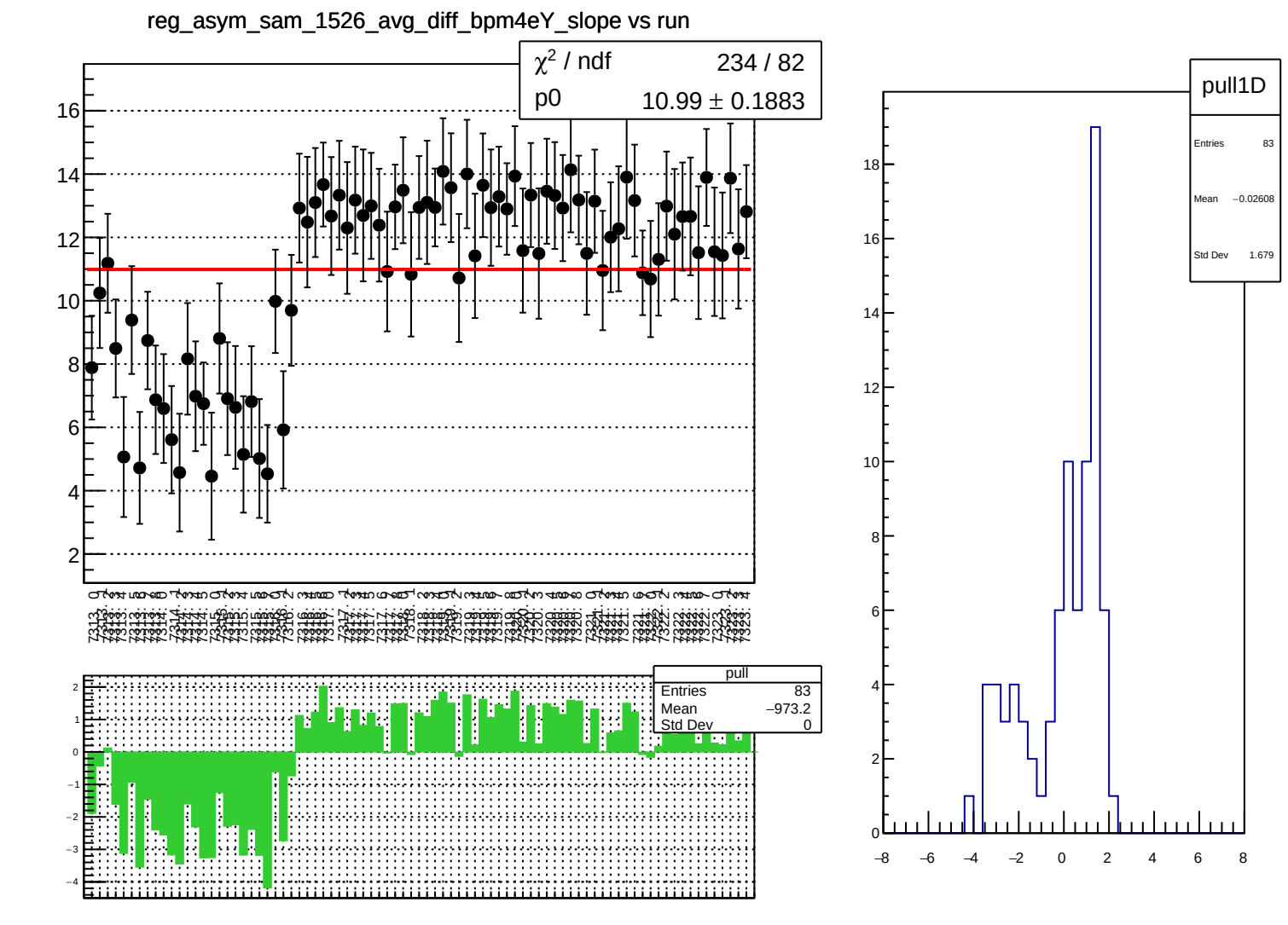

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 1317 / 82
p0 −8.686 ± 0.2194
pull
Entries 83
Mean 194.1
Std Dev 0
pull1D
Entries 83
Mean 0.5587
Std Dev 3.849

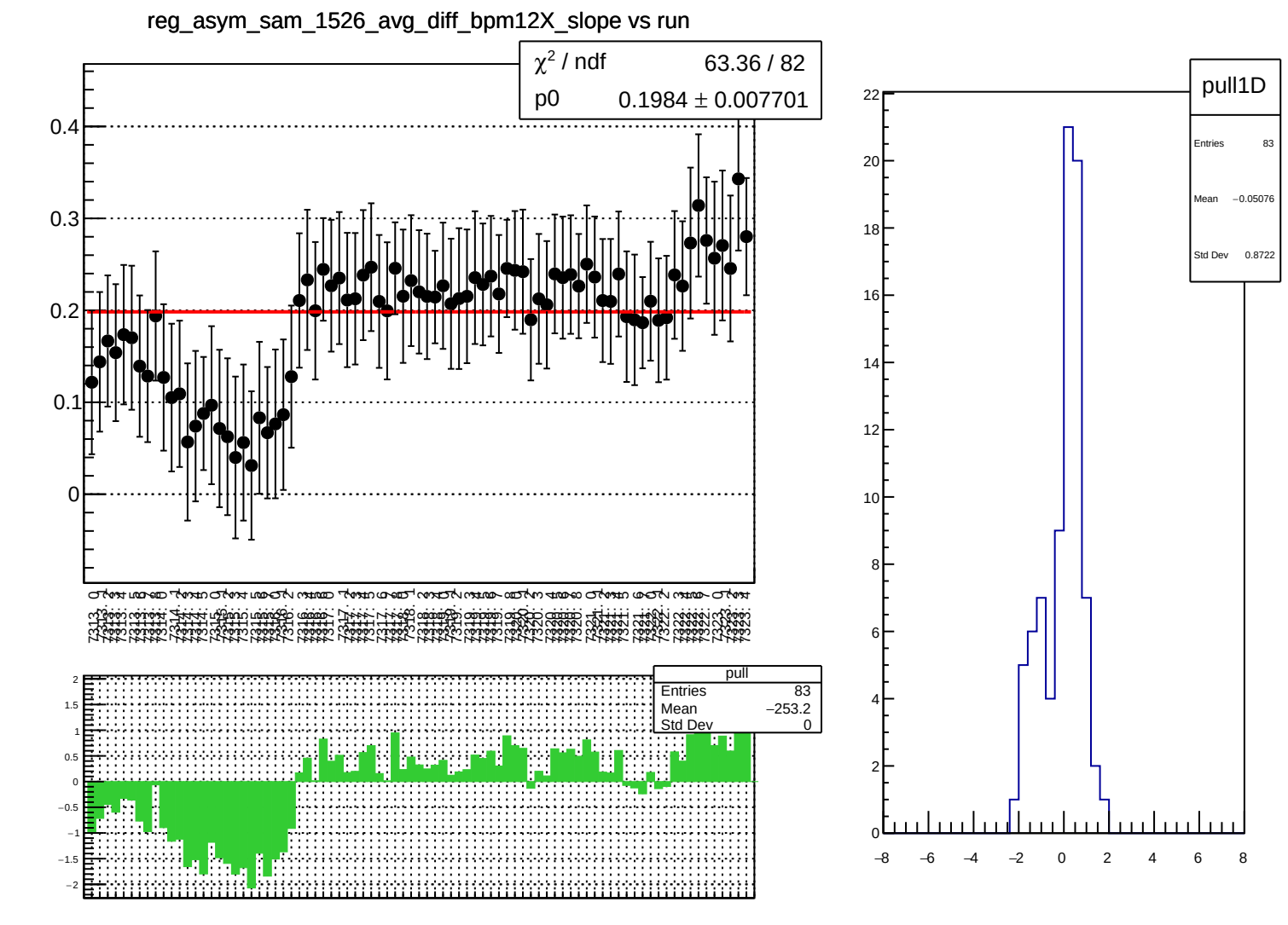

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 390.8 / 82
p0 4.54 ± 0.1734
pull
Entries 83
Mean −704.7
Std Dev 0

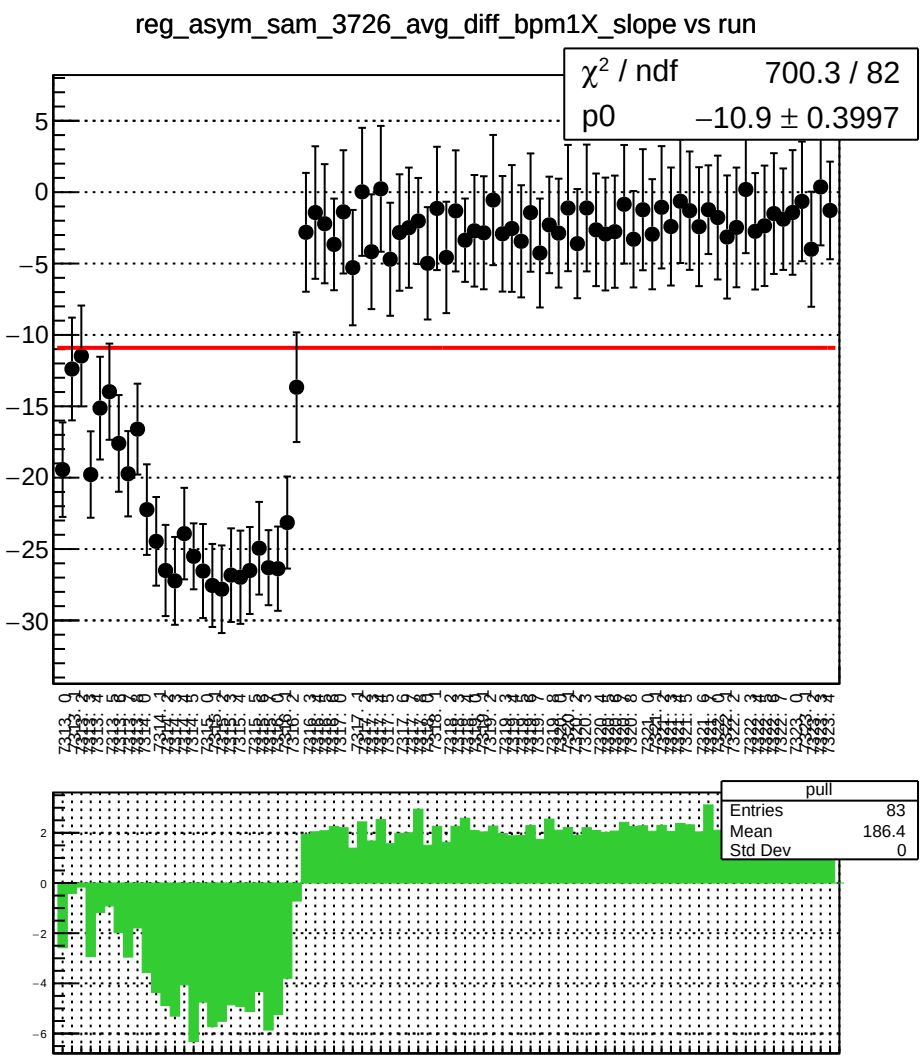

pull1D
Entries 83
Mean 0.04768
Std Dev 2.169

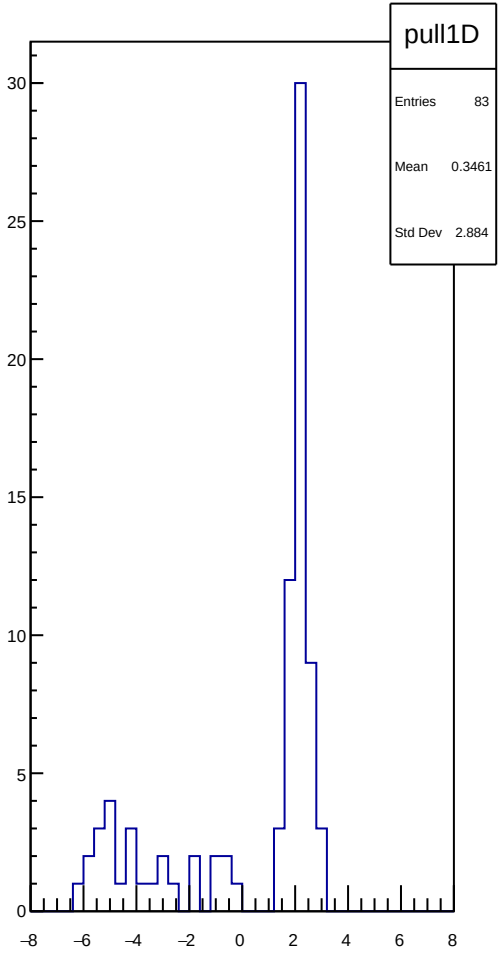

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 965.5 / 82
p0 −15.72 ± 0.2181
pull
Entries 83
Mean 192.5
Std Dev 0

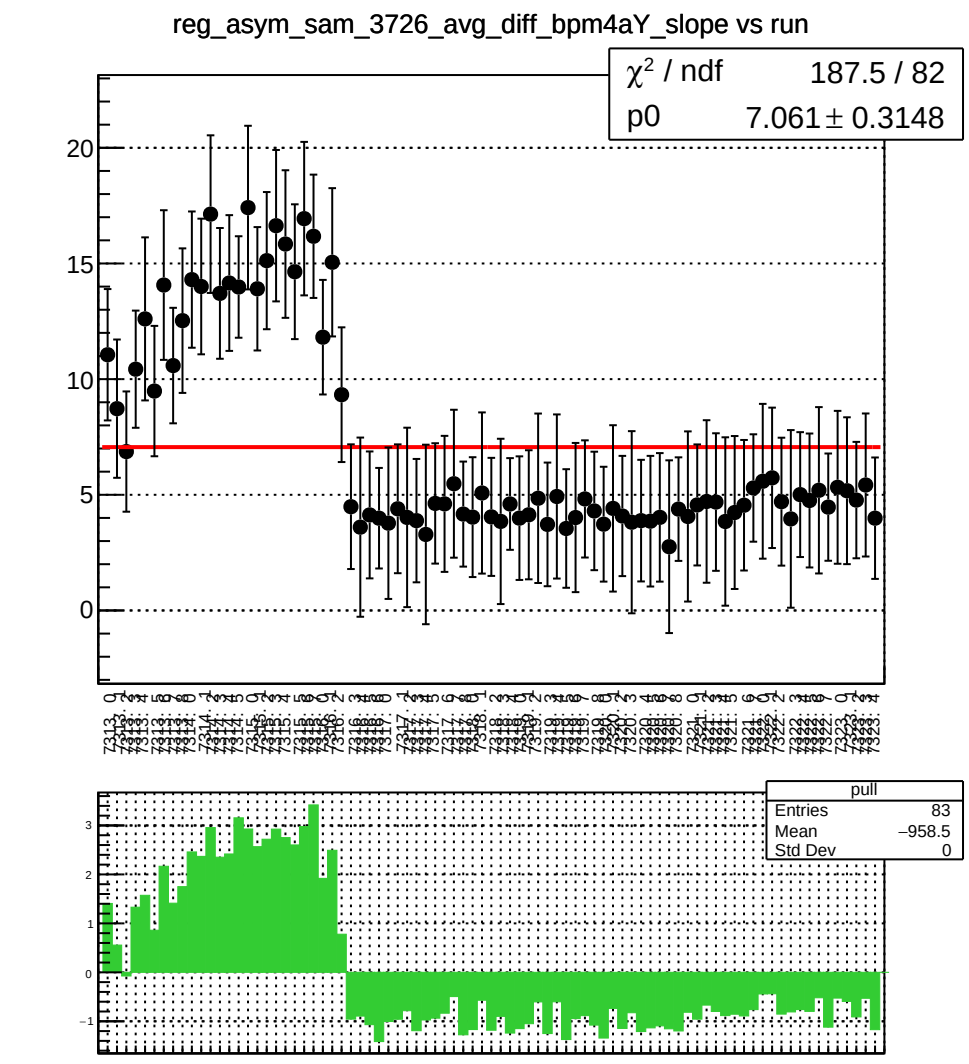

pull1D
Entries 83
Mean −0.3985
Std Dev 3.387

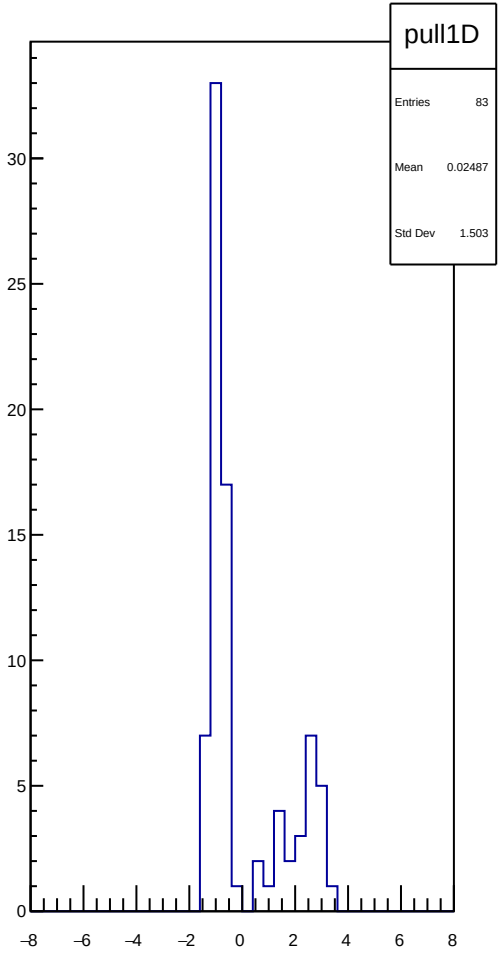

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 234 / 82
p0 10.99 ± 0.1883
pull
Entries 83
Mean −973.2
Std Dev 0
pull1D
Entries 83
Mean −0.02608
Std Dev 1.679

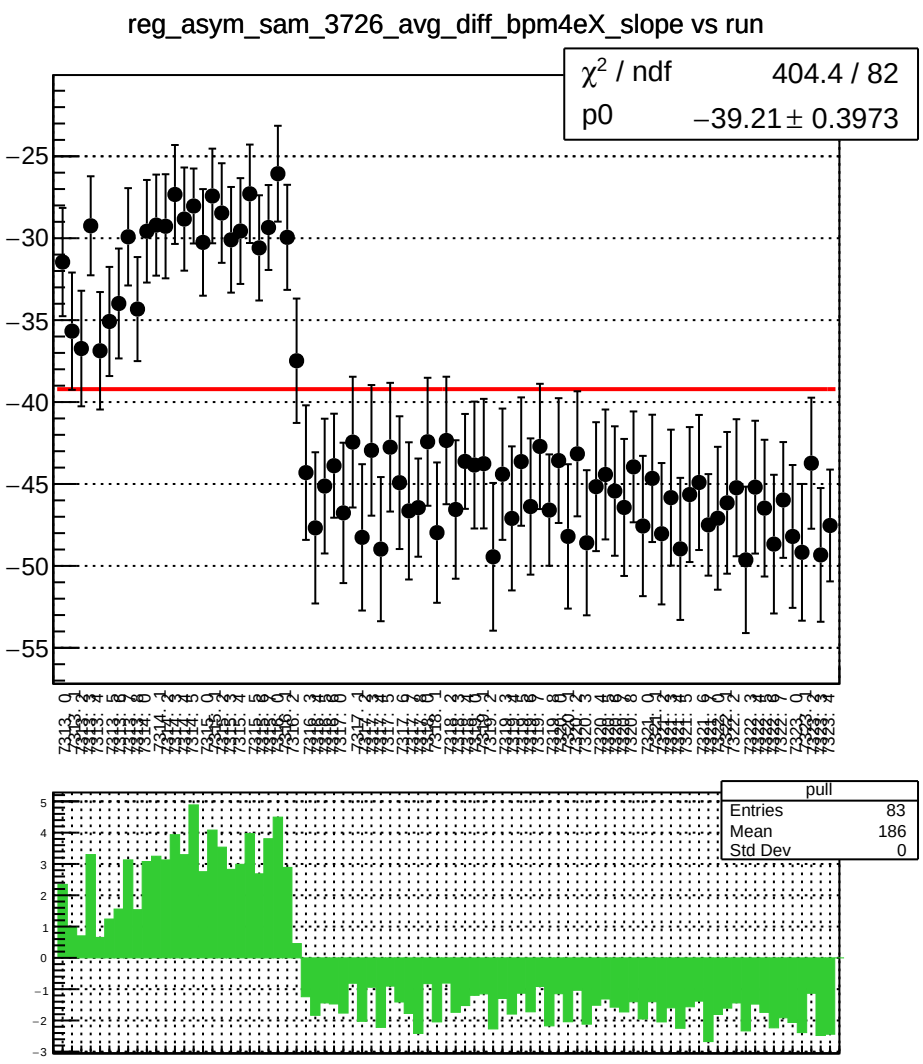

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 63.36 / 82
p0 0.1984 ± 0.007701
pull
Entries 83
Mean −253.2
Std Dev 0
pull1D
Entries 83
Mean −0.05076
Std Dev 0.8722

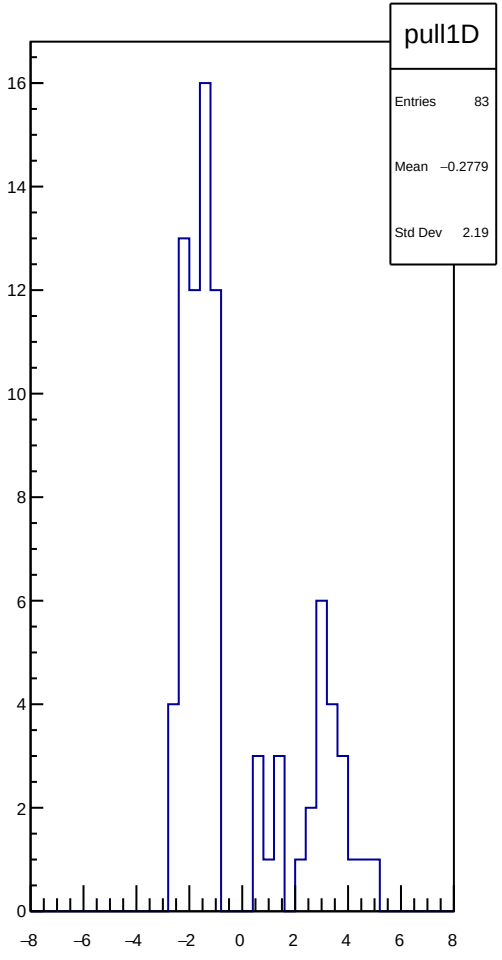

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 700.3 / 82
p0 −10.9 ± 0.3997
pull
Entries 83
Mean 186.4
Std Dev 0

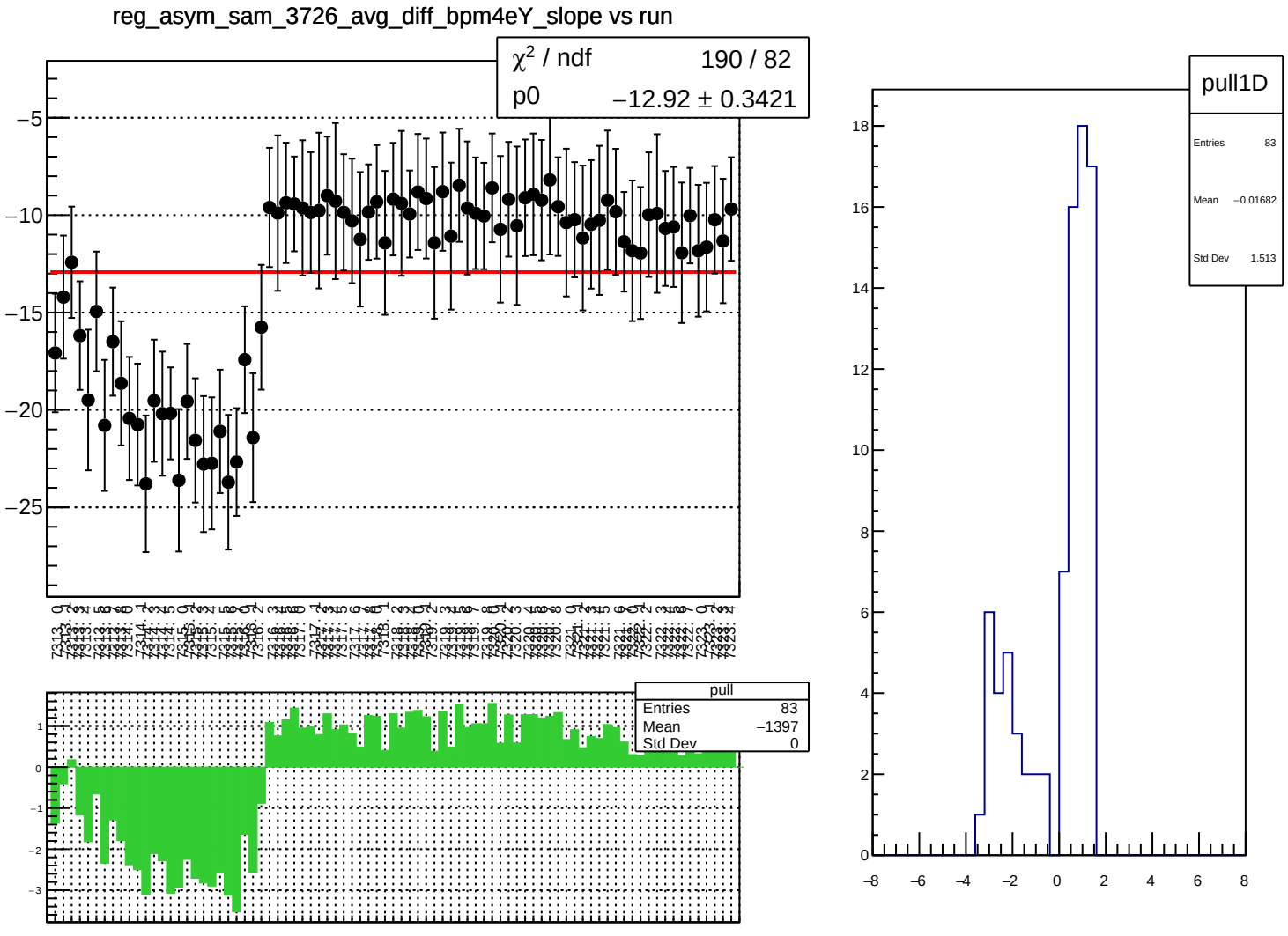

pull1D
Entries 83
Mean 0.3461
Std Dev 2.884

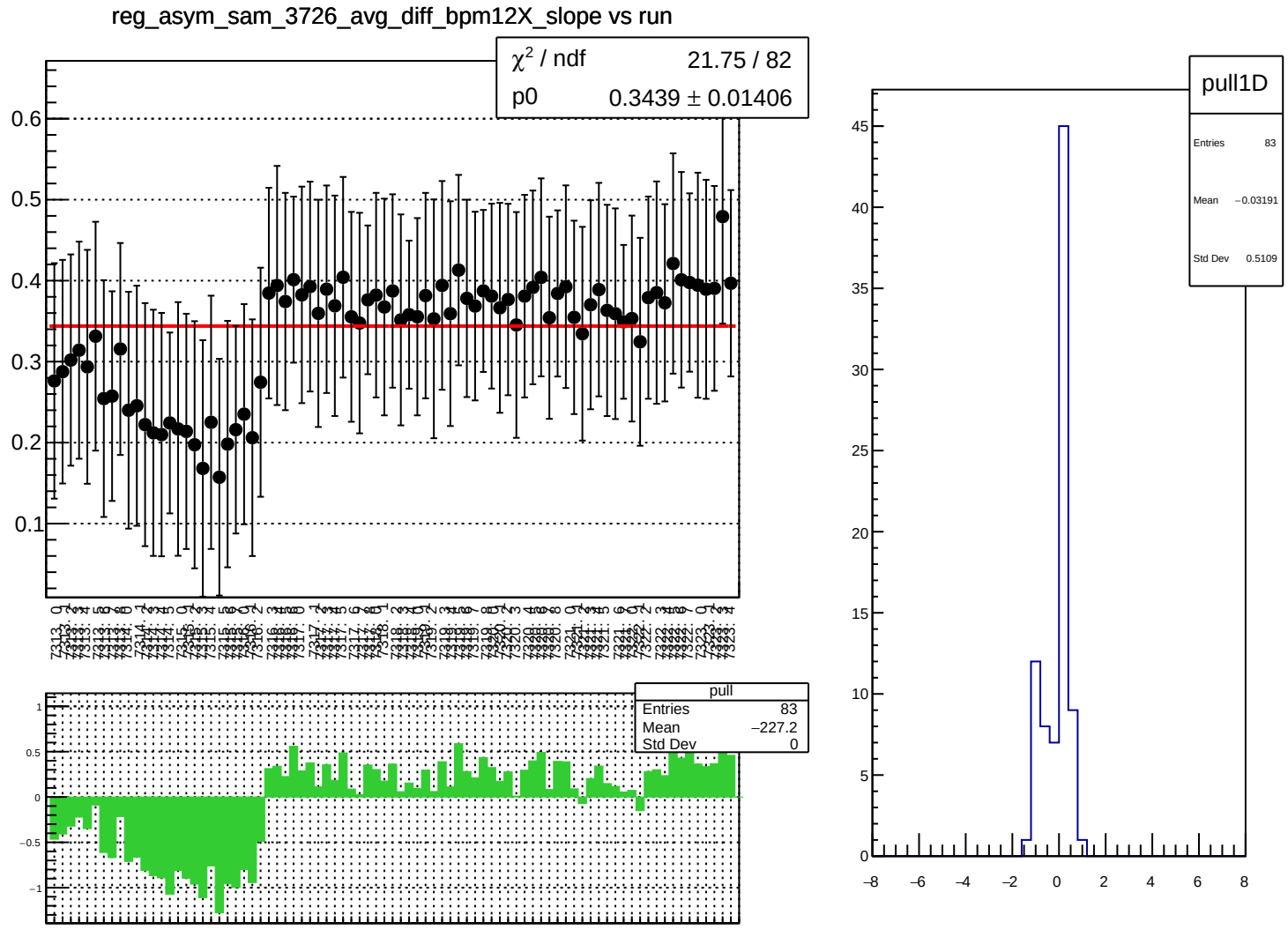

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 187.5 / 82
p0 7.061 ± 0.3148
pull
Entries 83
Mean −958.5
Std Dev 0

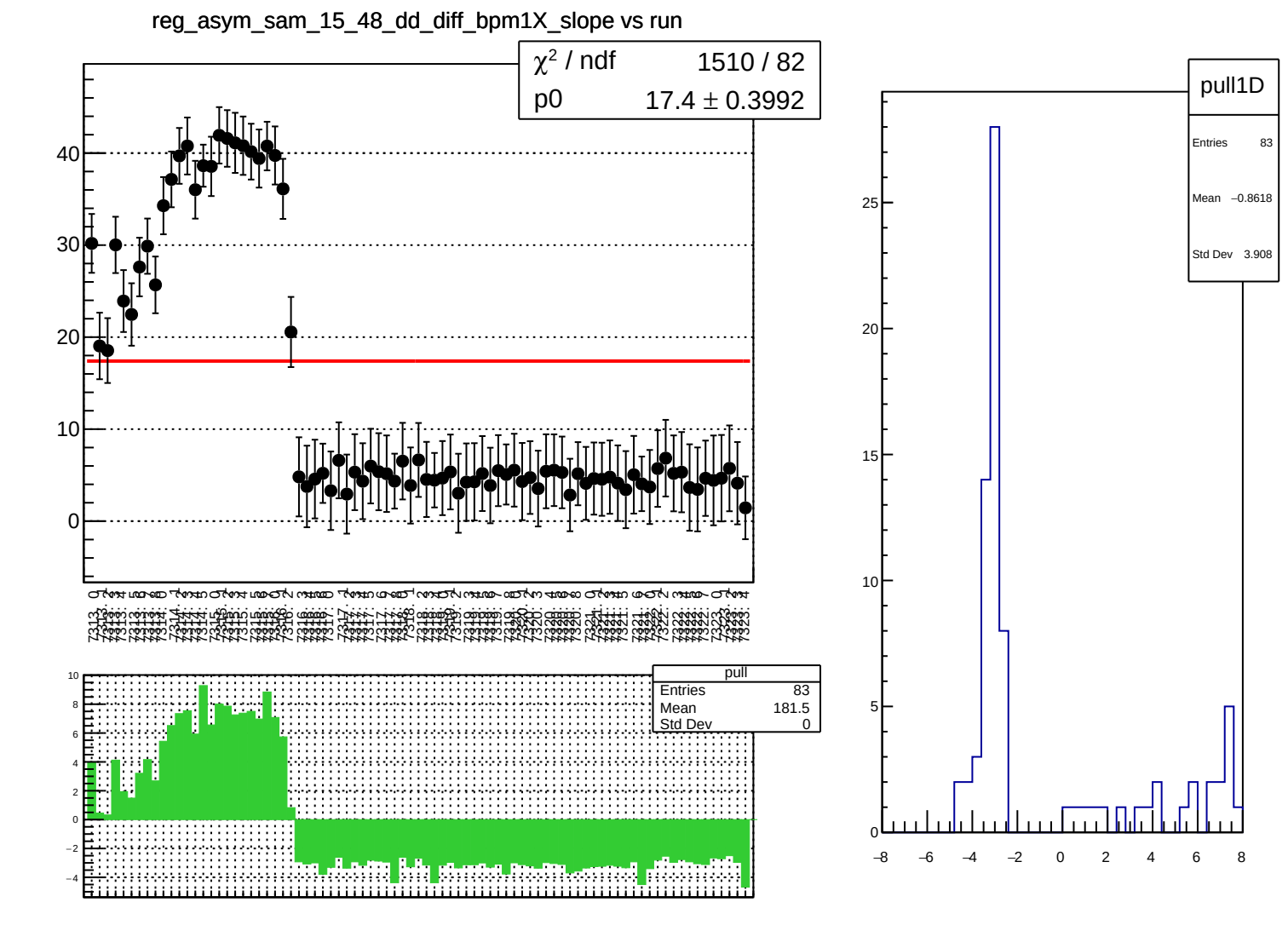

pull1D
Entries 83
Mean 0.02487
Std Dev 1.503

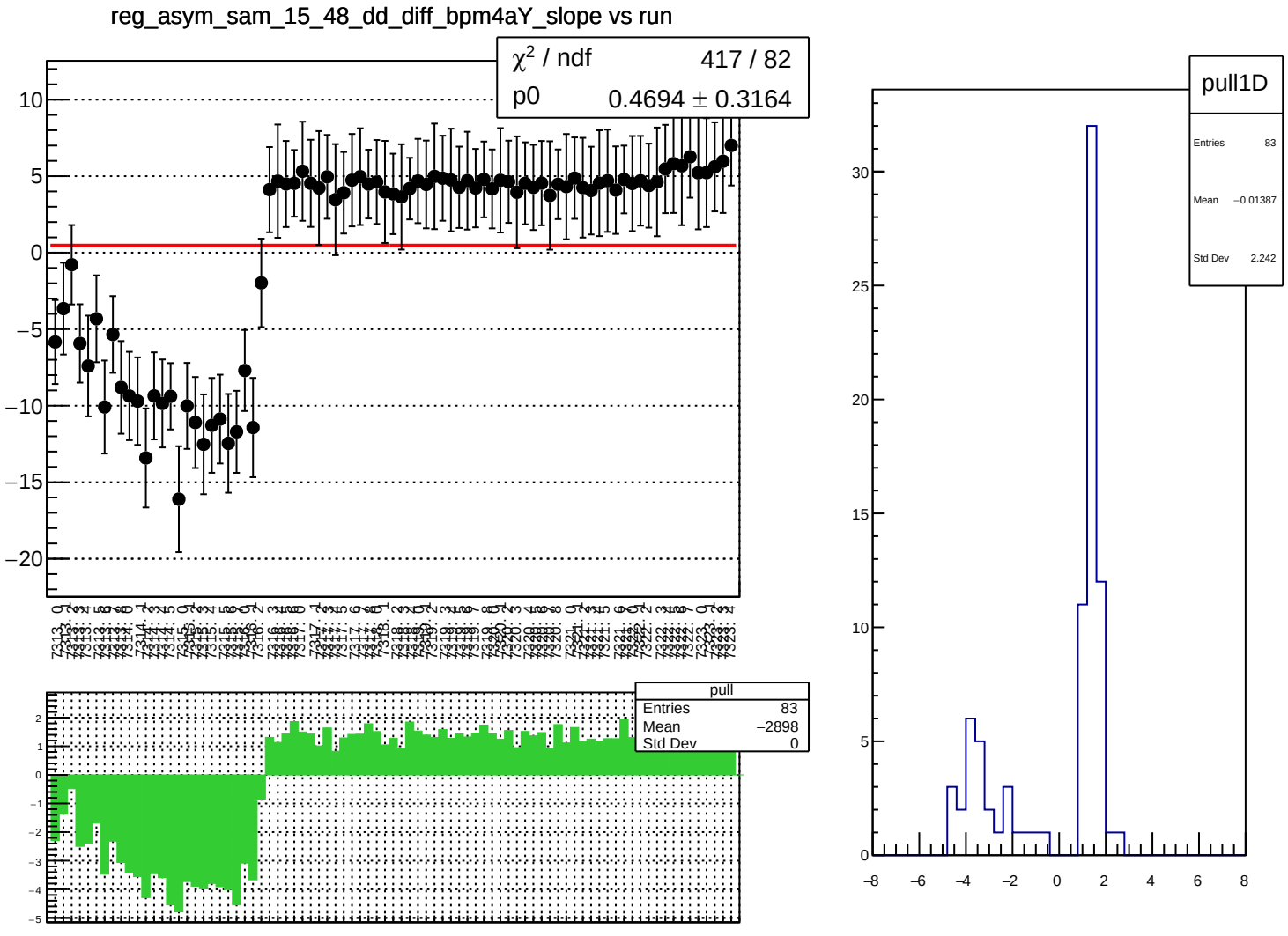

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 404.4 / 82
p0 −39.21 ± 0.3973
pull
Entries 83
Mean 186
Std Dev 0

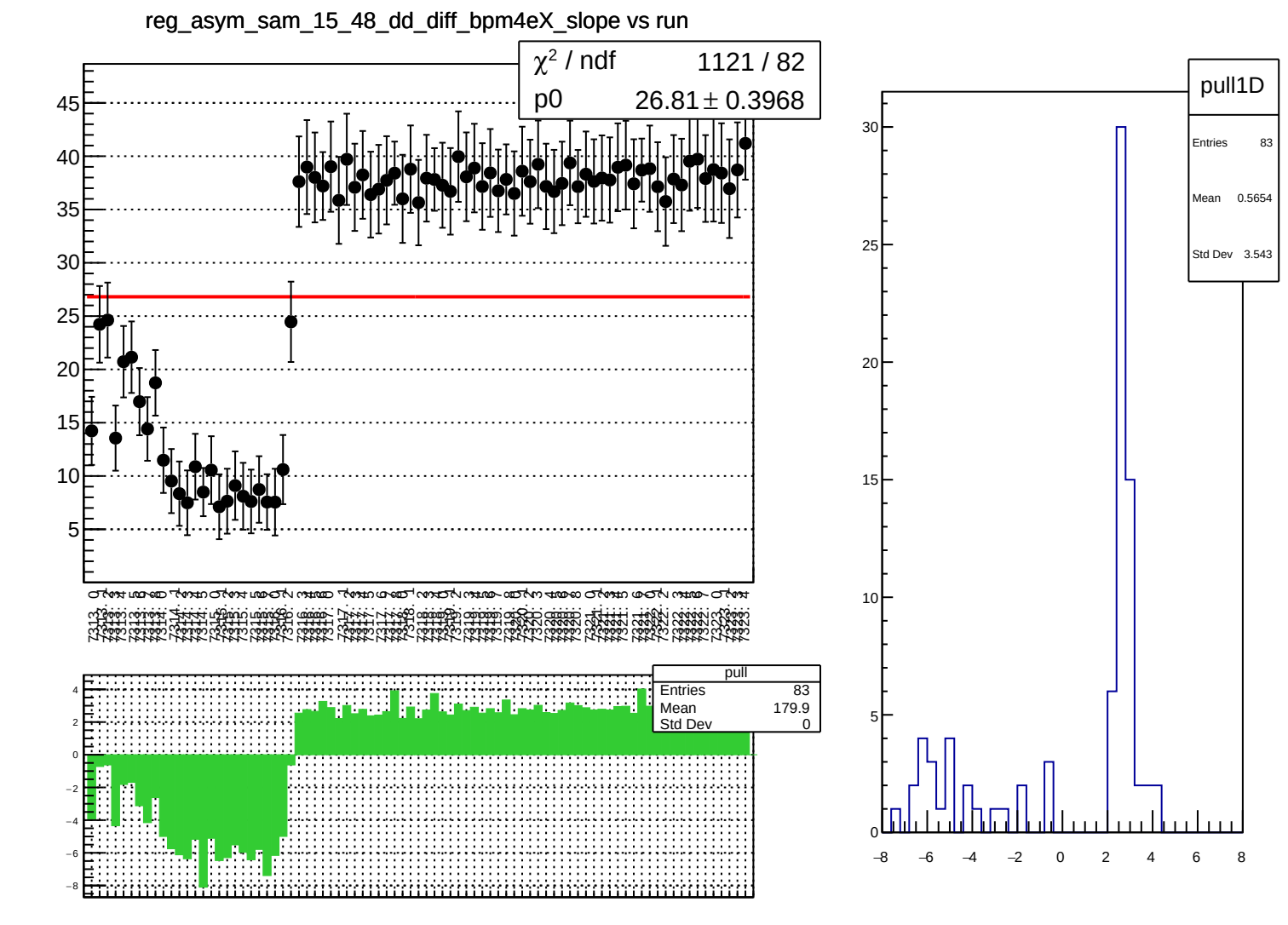

pull1D
Entries 83
Mean −0.2779
Std Dev 2.19

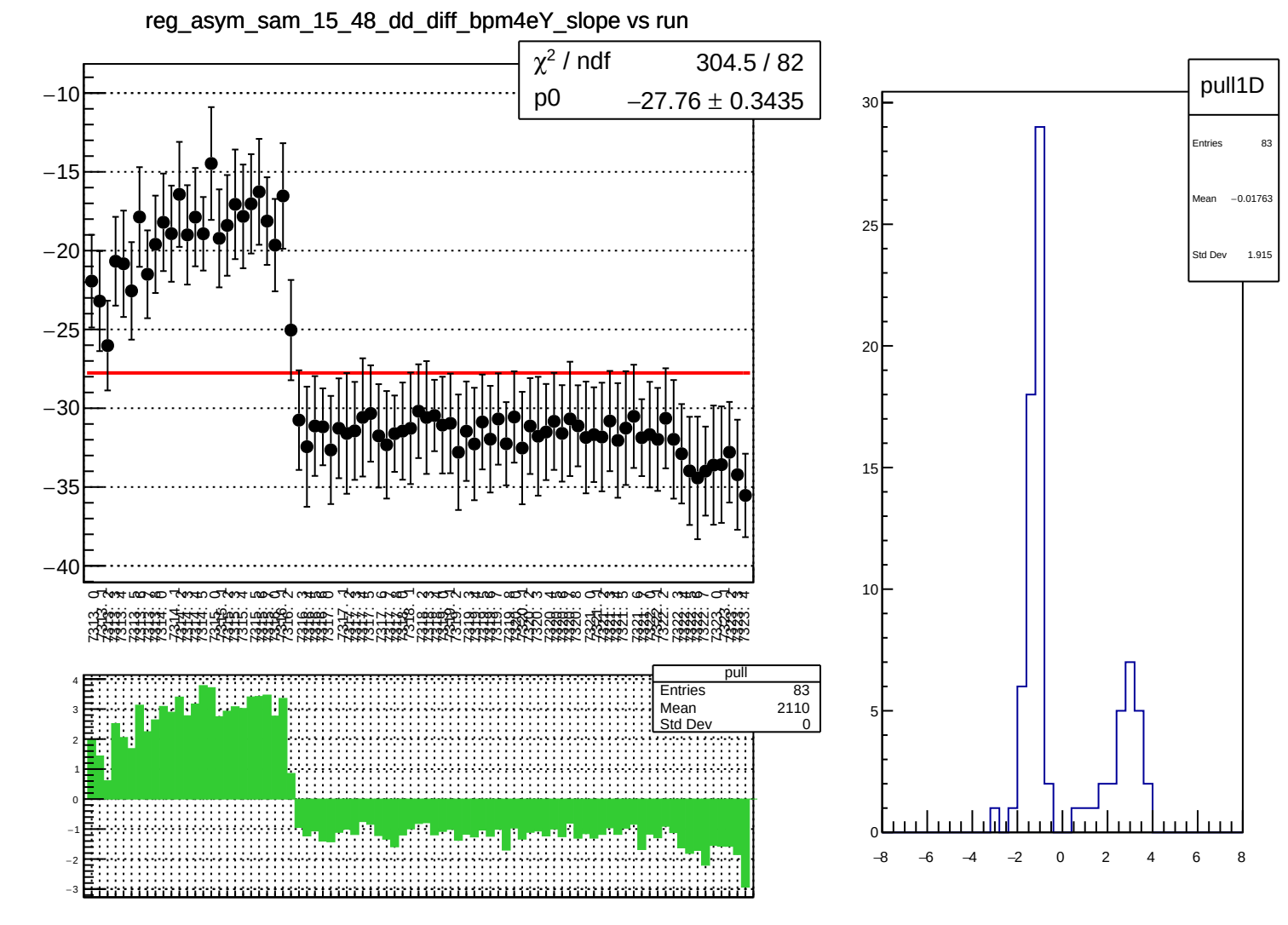

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 190 / 82
p0 −12.92 ± 0.3421
pull
Entries 83
Mean −1397
Std Dev 0
pull1D
Entries 83
Mean −0.01682
Std Dev 1.513

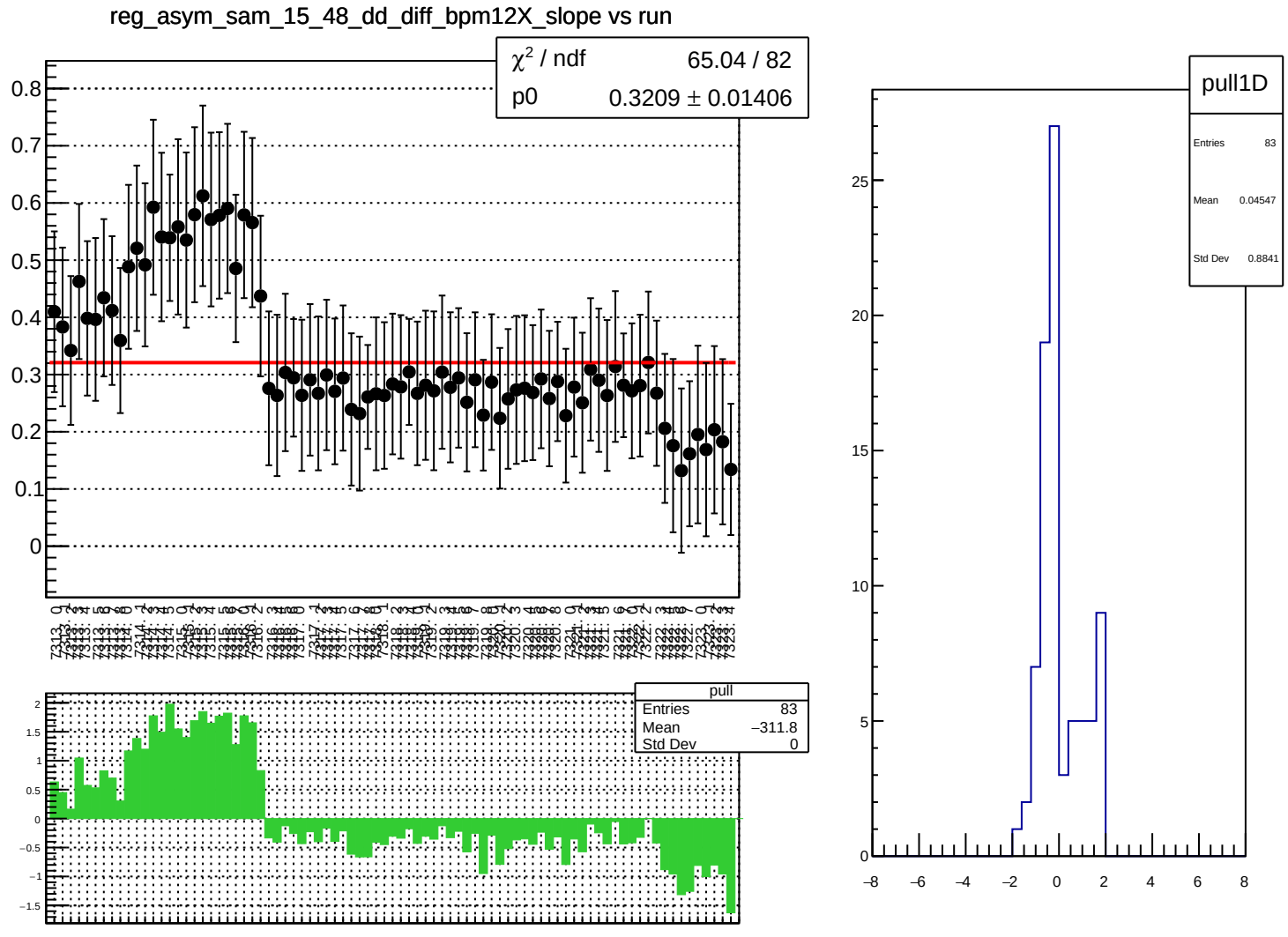

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 21.75 / 82
p0 0.3439 ± 0.01406
pull
Entries 83
Mean −227.2
Std Dev 0
pull1D
Entries 83
Mean −0.03191
Std Dev 0.5109

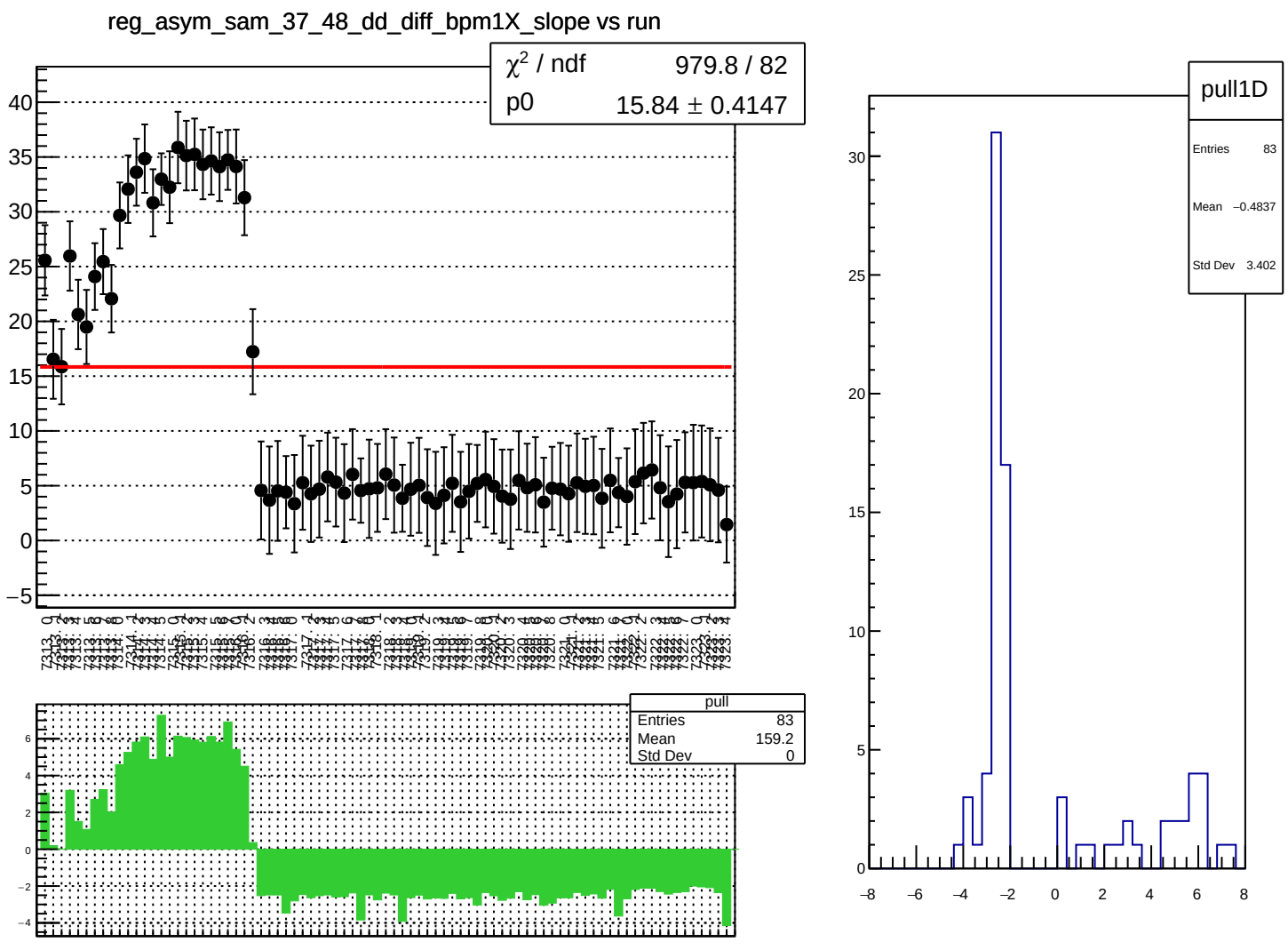

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1510 / 82
p0 17.4 ± 0.3992
pull
Entries 83
Mean 181.5
Std Dev 0
pull1D
Entries 83
Mean −0.8618
Std Dev 3.908

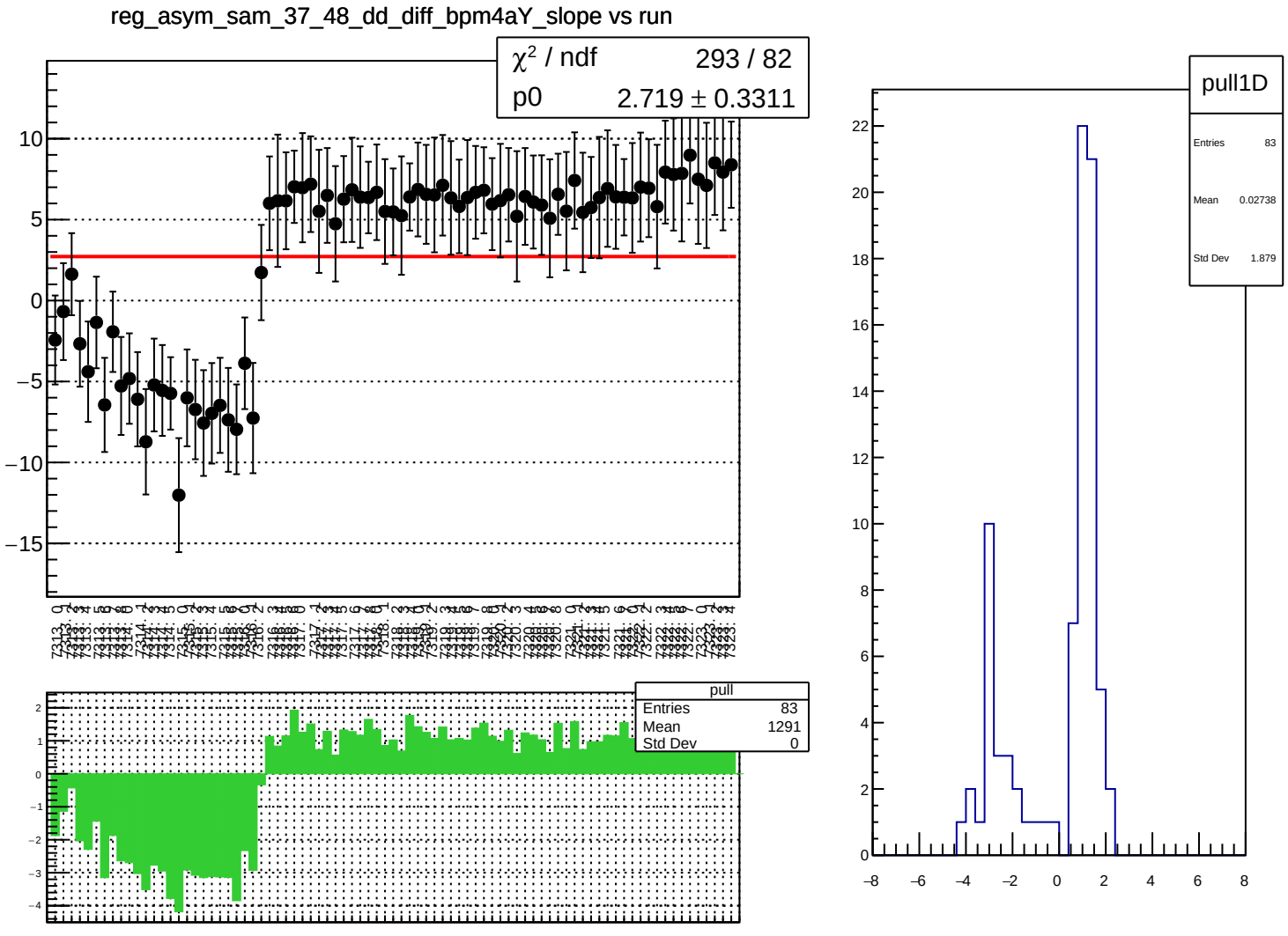

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 417 / 82
p0 0.4694 ± 0.3164
pull
Entries 83
Mean −2898
Std Dev 0
pull1D
Entries 83
Mean −0.01387
Std Dev 2.242

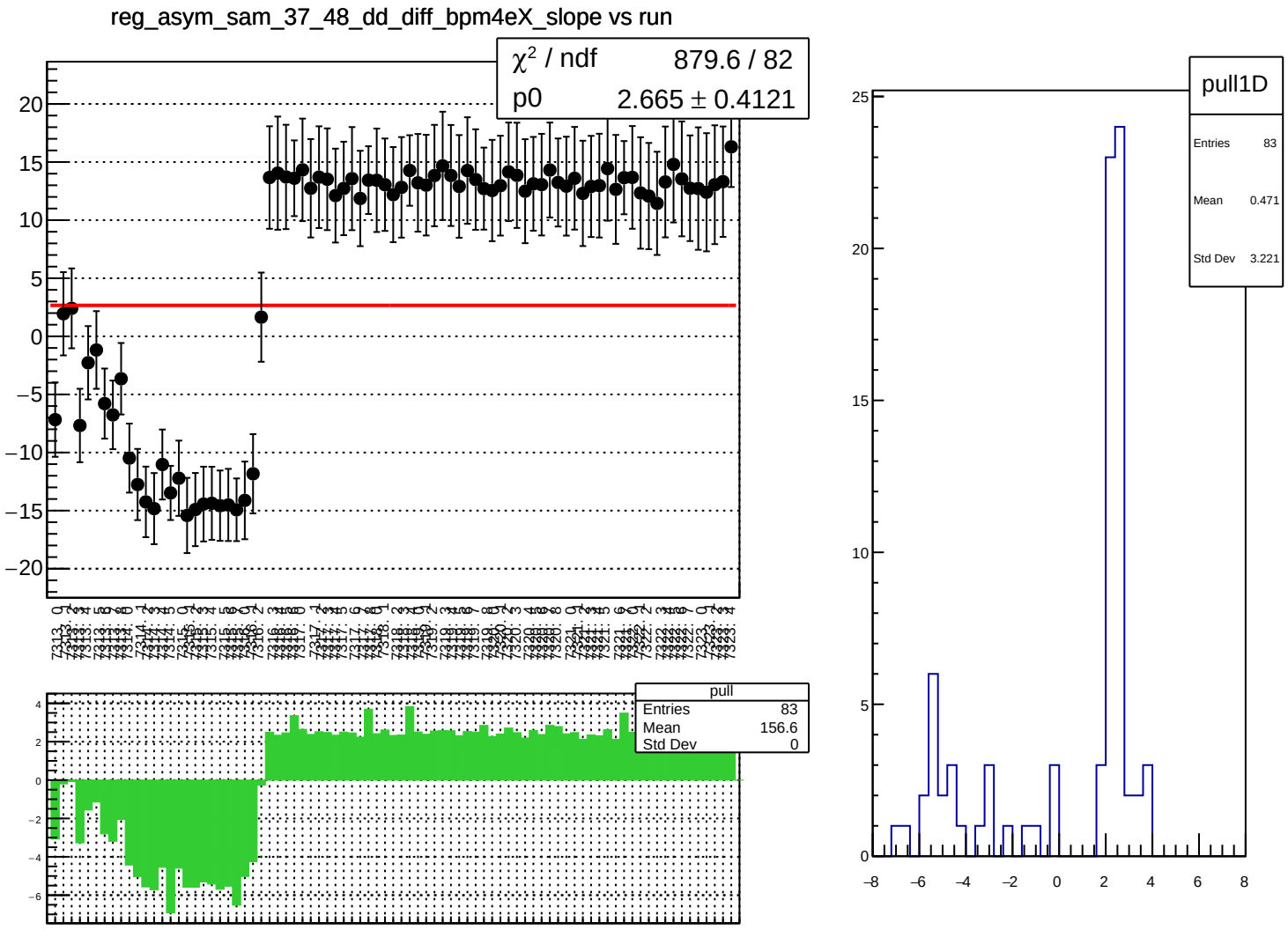

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1121 / 82
p0 26.81 ± 0.3968
pull
Entries 83
Mean 179.9
Std Dev 0
pull1D
Entries 83
Mean 0.5654
Std Dev 3.543

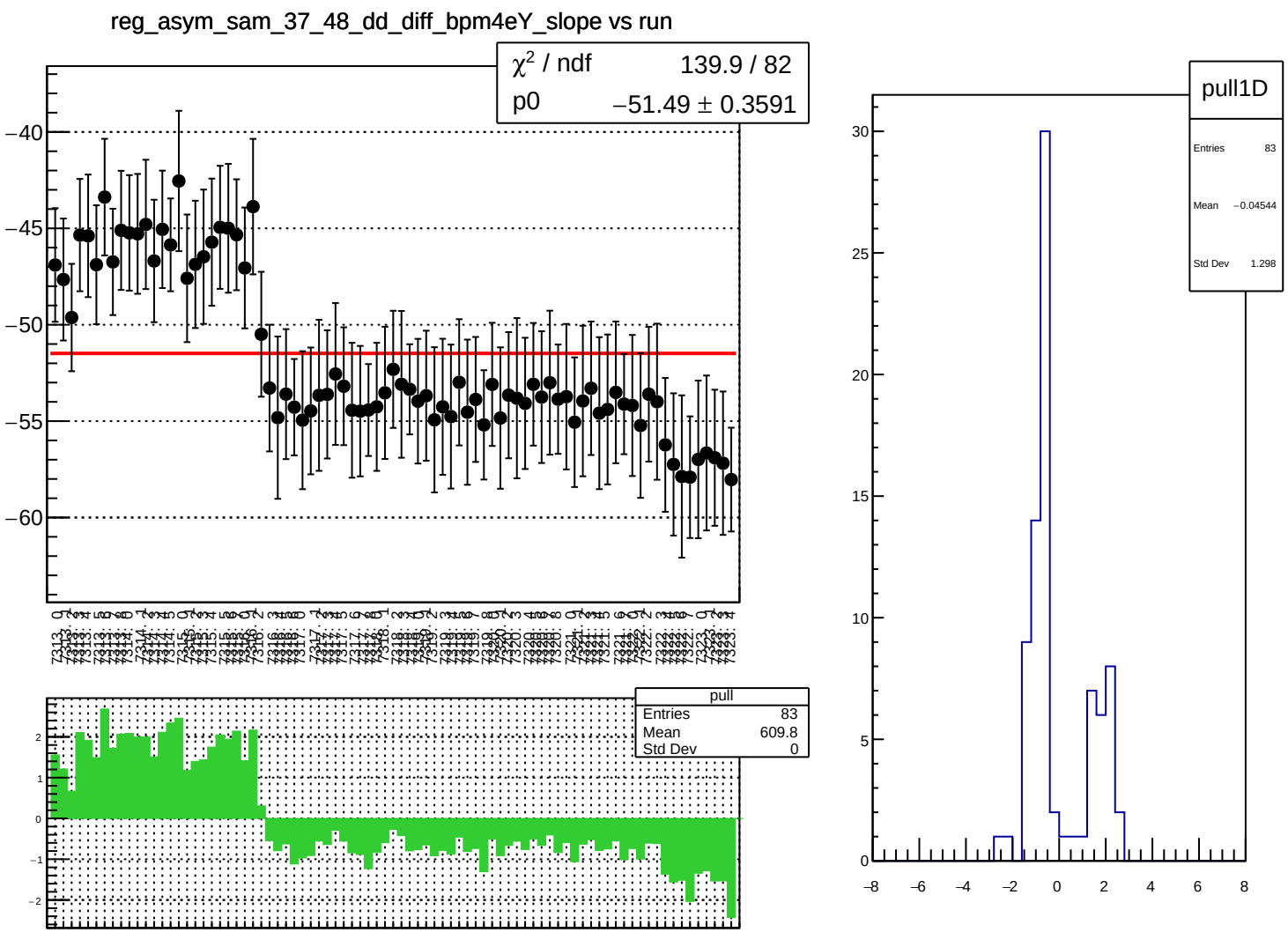

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 304.5 / 82
p0 −27.76 ± 0.3435
pull
Entries 83
Mean 2110
Std Dev 0
pull1D
Entries 83
Mean −0.01763
Std Dev 1.915

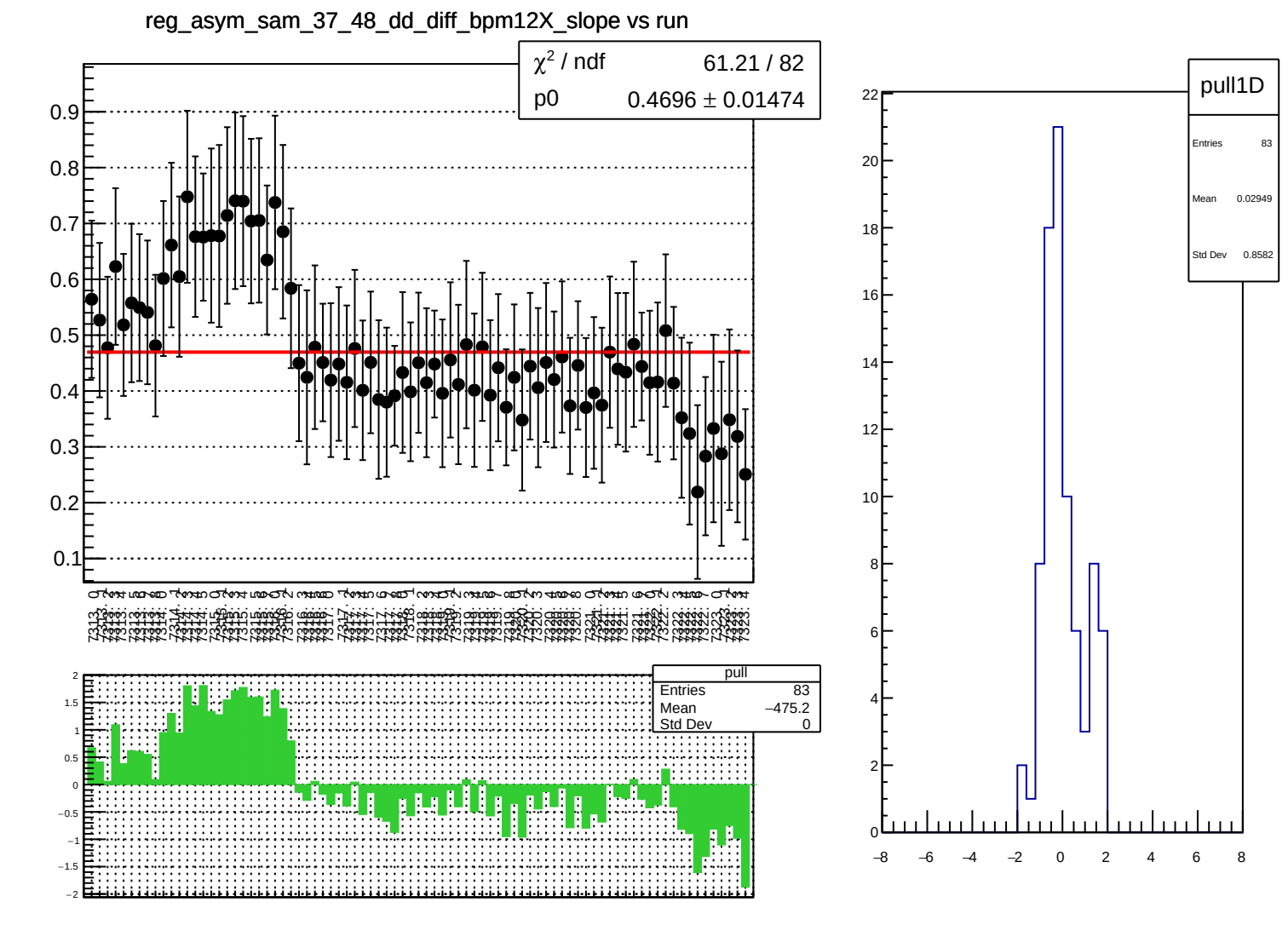

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 65.04 / 82
p0 0.3209 ± 0.01406
pull
Entries 83
Mean −311.8
Std Dev 0
pull1D
Entries 83
Mean 0.04547
Std Dev 0.8841

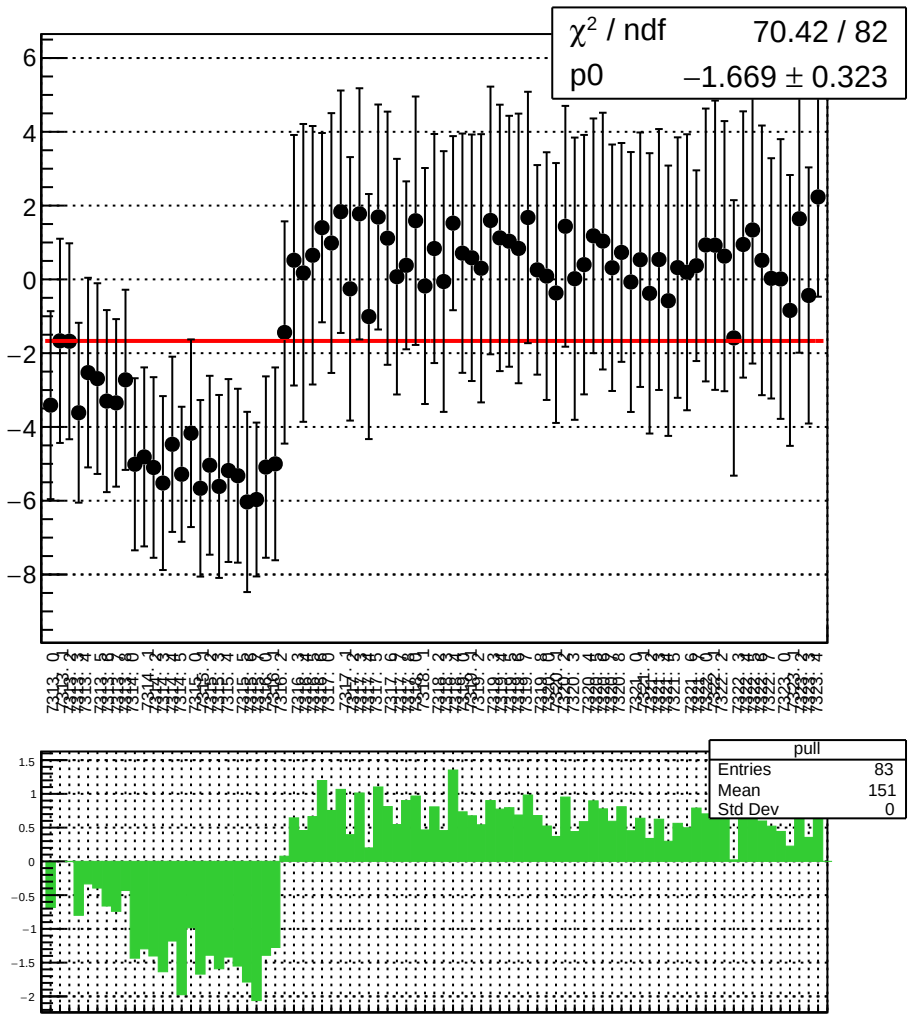

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 979.8 / 82
p0 15.84 ± 0.4147
pull
Entries 83
Mean 159.2
Std Dev 0
pull1D
Entries 83
Mean −0.4837
Std Dev 3.402

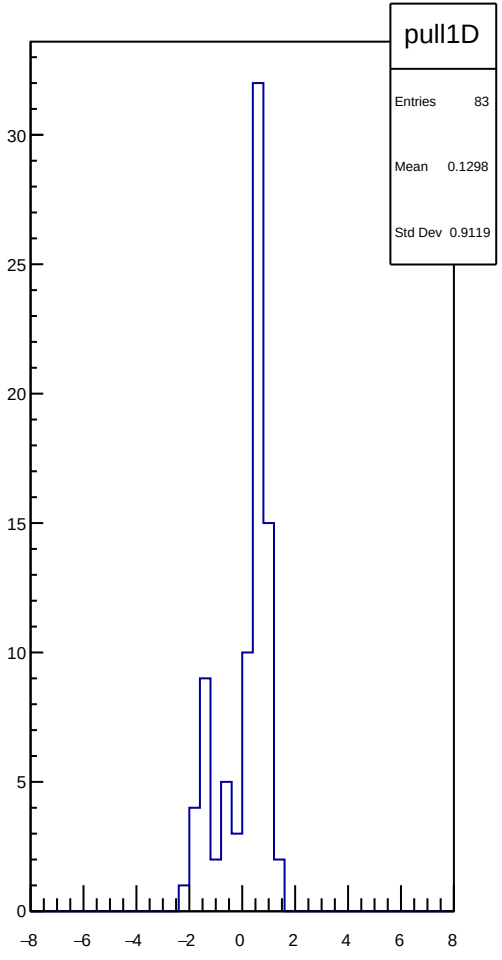

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 293 / 82
p0 2.719 ± 0.3311
pull
Entries 83
Mean 1291
Std Dev 0
pull1D
Entries 83
Mean 0.02738
Std Dev 1.879

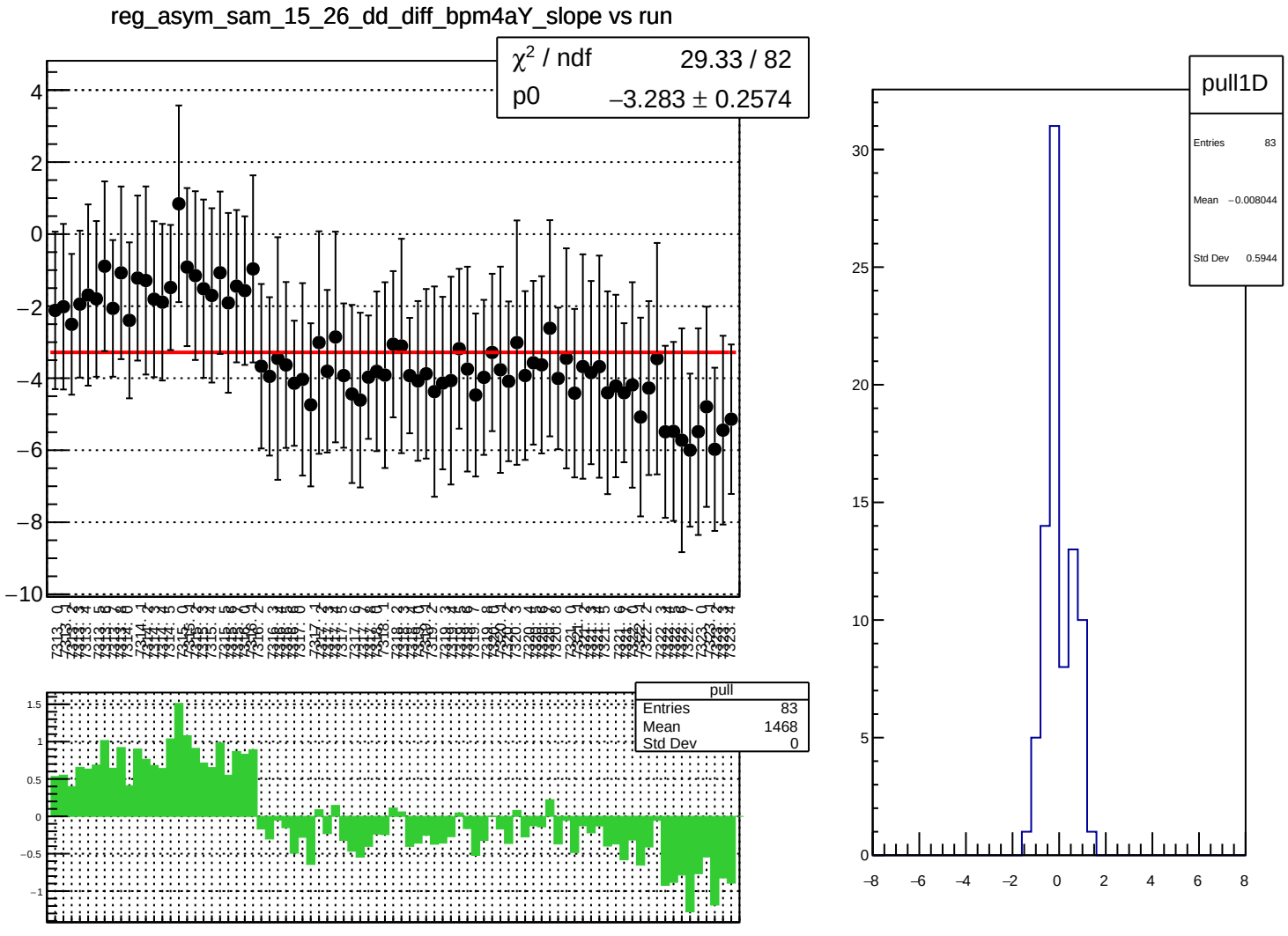

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 879.6 / 82
p0 2.665 ± 0.4121
pull
Entries 83
Mean 156.6
Std Dev 0
pull1D
Entries 83
Mean 0.471
Std Dev 3.221

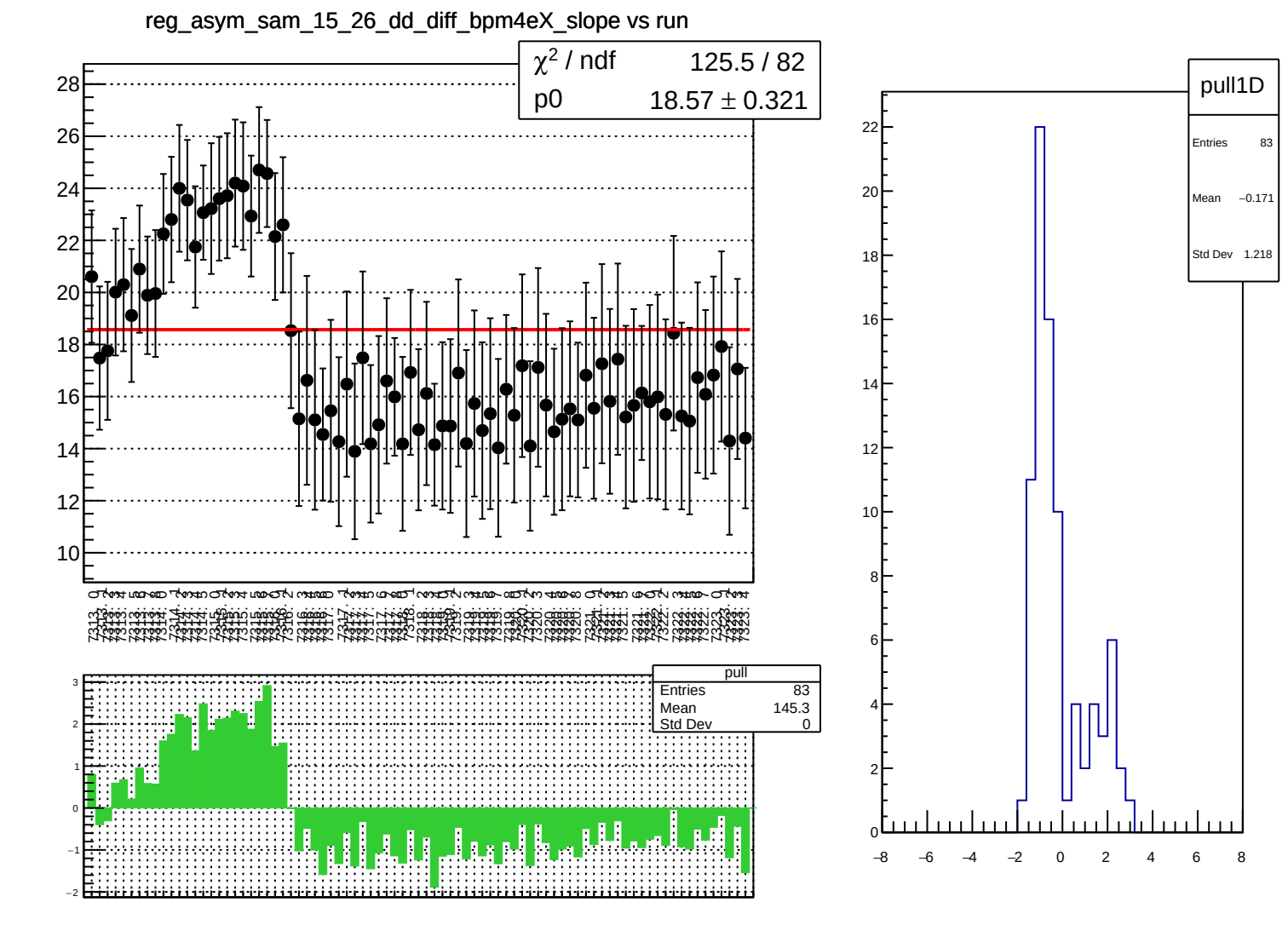

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.9 / 82
p0 −51.49 ± 0.3591
−40
−45
−50
−55
−60
pull
Entries 83
Mean 609.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.04544
Std Dev 1.298
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

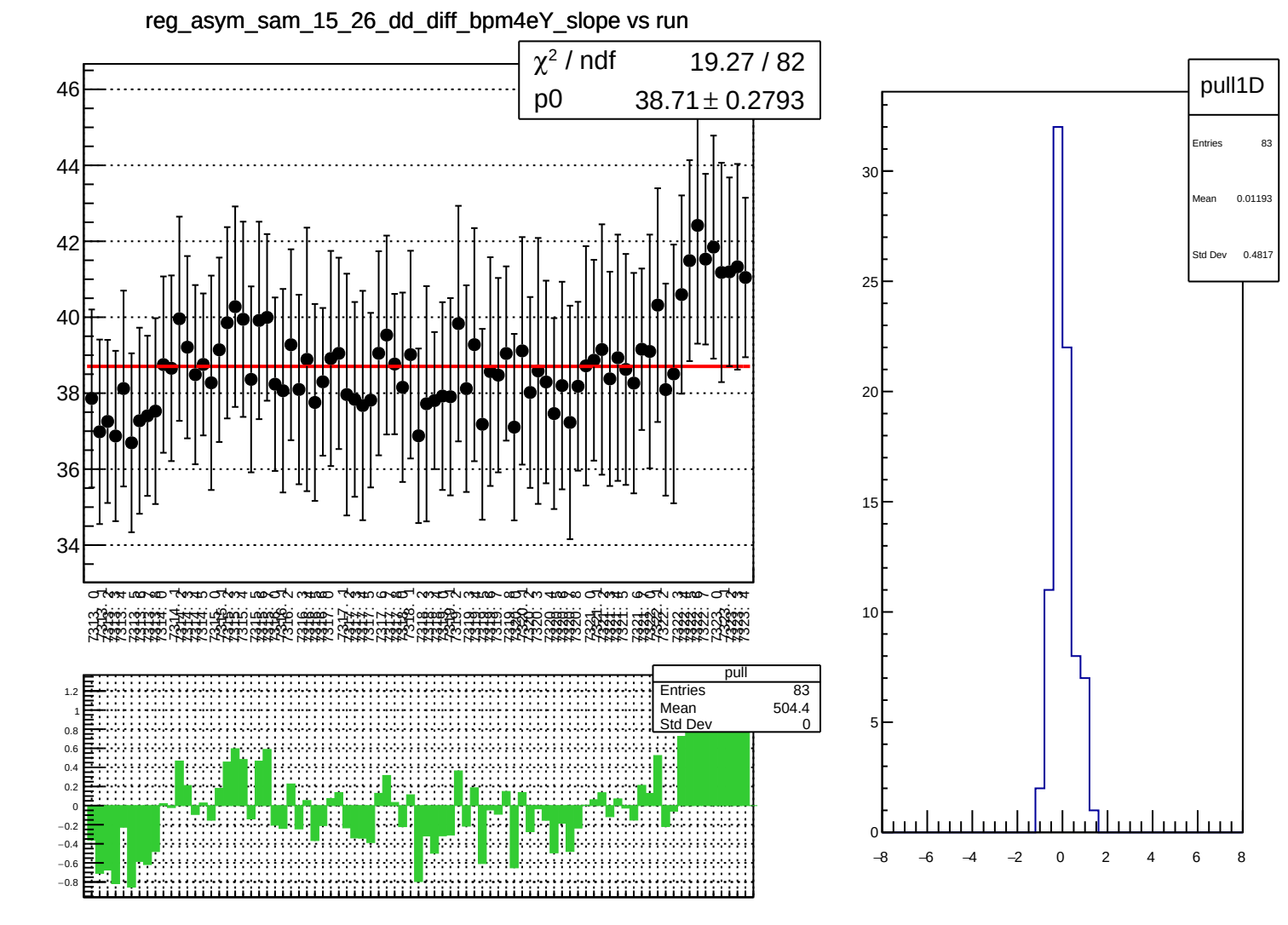

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 61.21 / 82
p0 0.4696 ± 0.01474
pull
Entries 83
Mean −475.2
Std Dev 0
pull1D
Entries 83
Mean 0.02949
Std Dev 0.8582

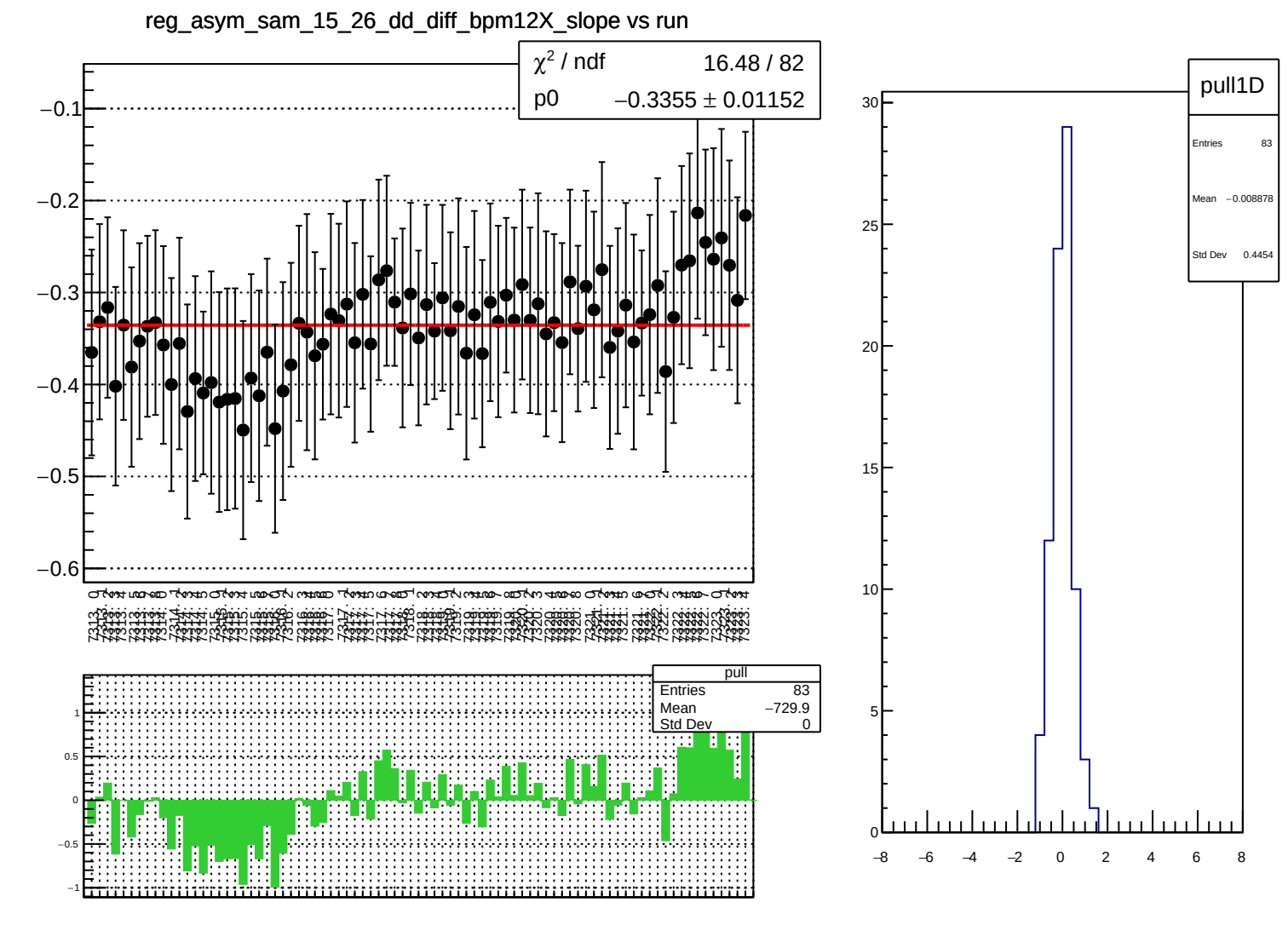

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 70.42 / 82
p0 −1.669 ± 0.323
pull
Entries 83
Mean 151
Std Dev 0

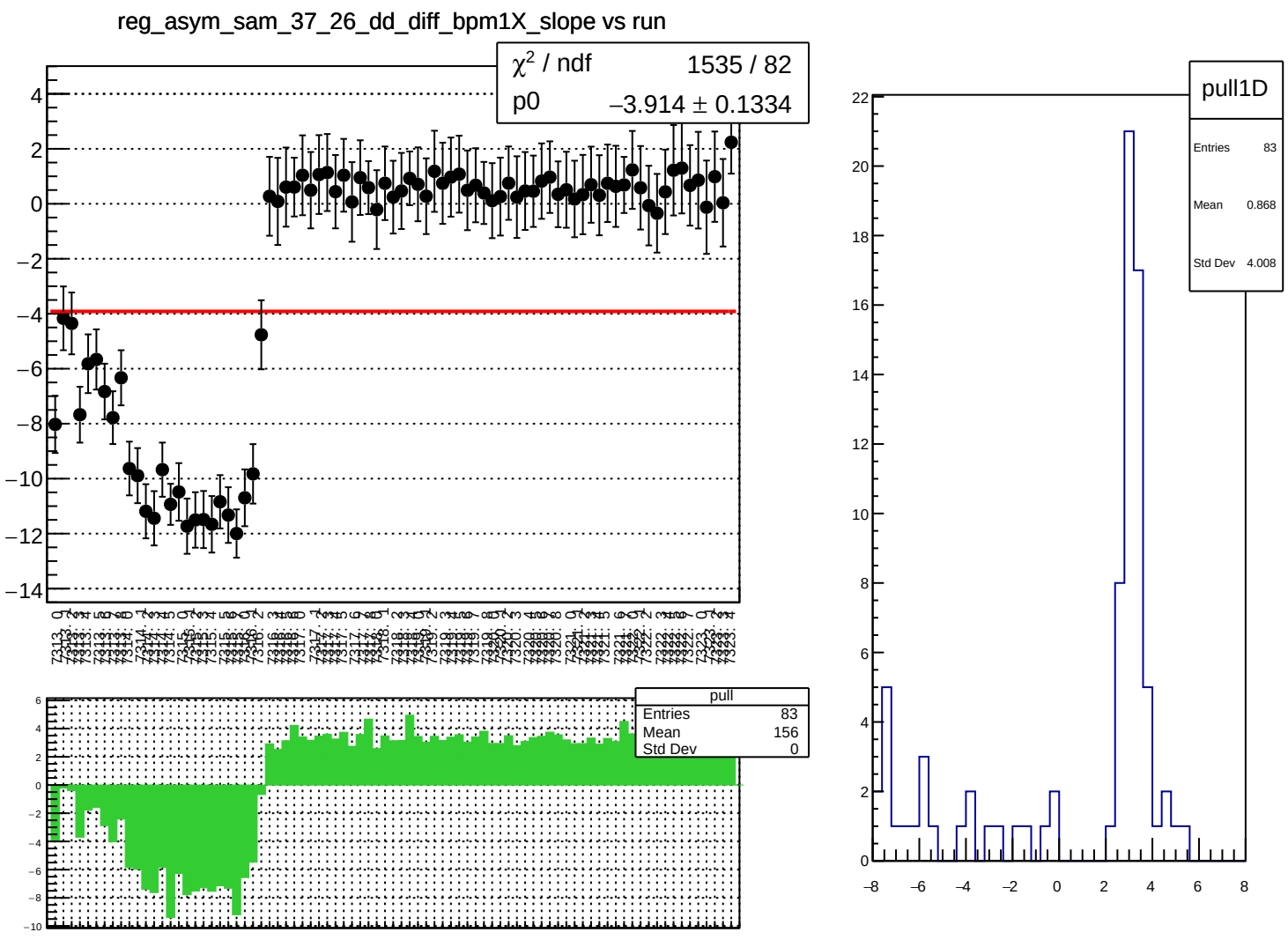

pull1D
Entries 83
Mean 0.1298
Std Dev 0.9119

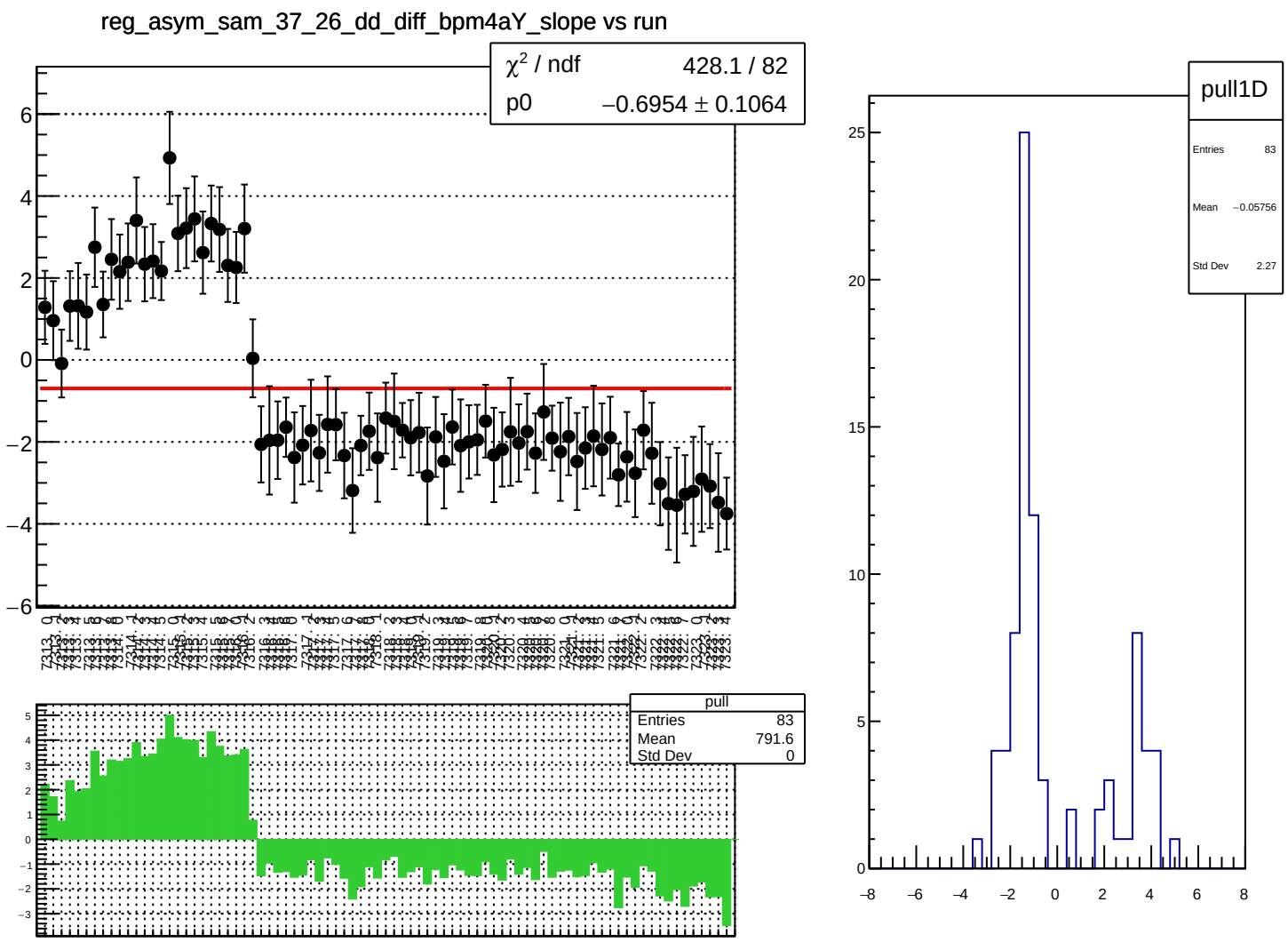

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.33 / 82
p0 −3.283 ± 0.2574
pull
Entries 83
Mean 1468
Std Dev 0
pull1D
Entries 83
Mean −0.008044
Std Dev 0.5944

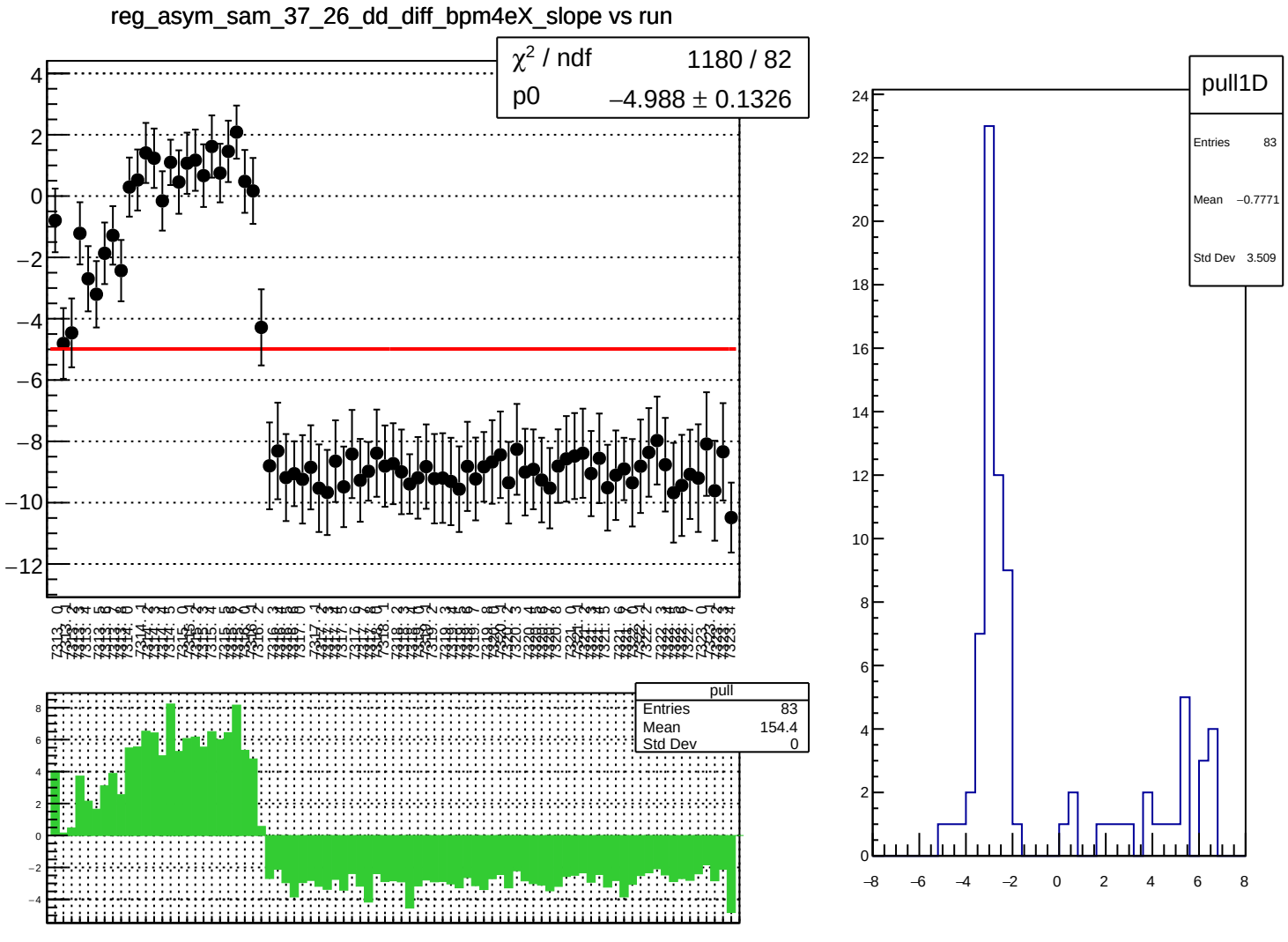

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 125.5 / 82
p0 18.57 ± 0.321
pull
Entries 83
Mean 145.3
Std Dev 0
pull1D
Entries 83
Mean −0.171
Std Dev 1.218

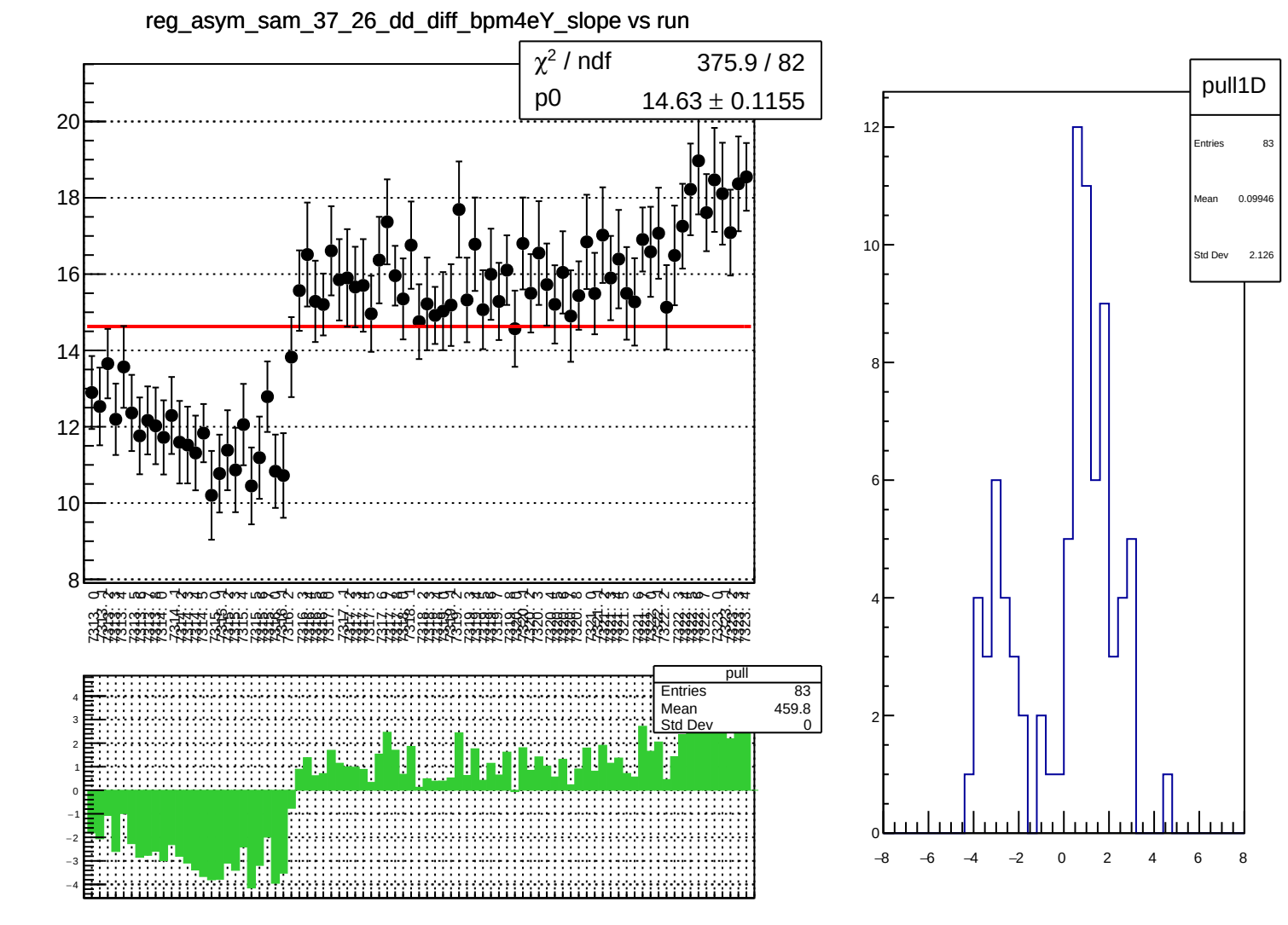

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.27 / 82
p0 38.71 ± 0.2793
pull
Entries 83
Mean 504.4
Std Dev 0
pull1D
Entries 83
Mean 0.01193
Std Dev 0.4817

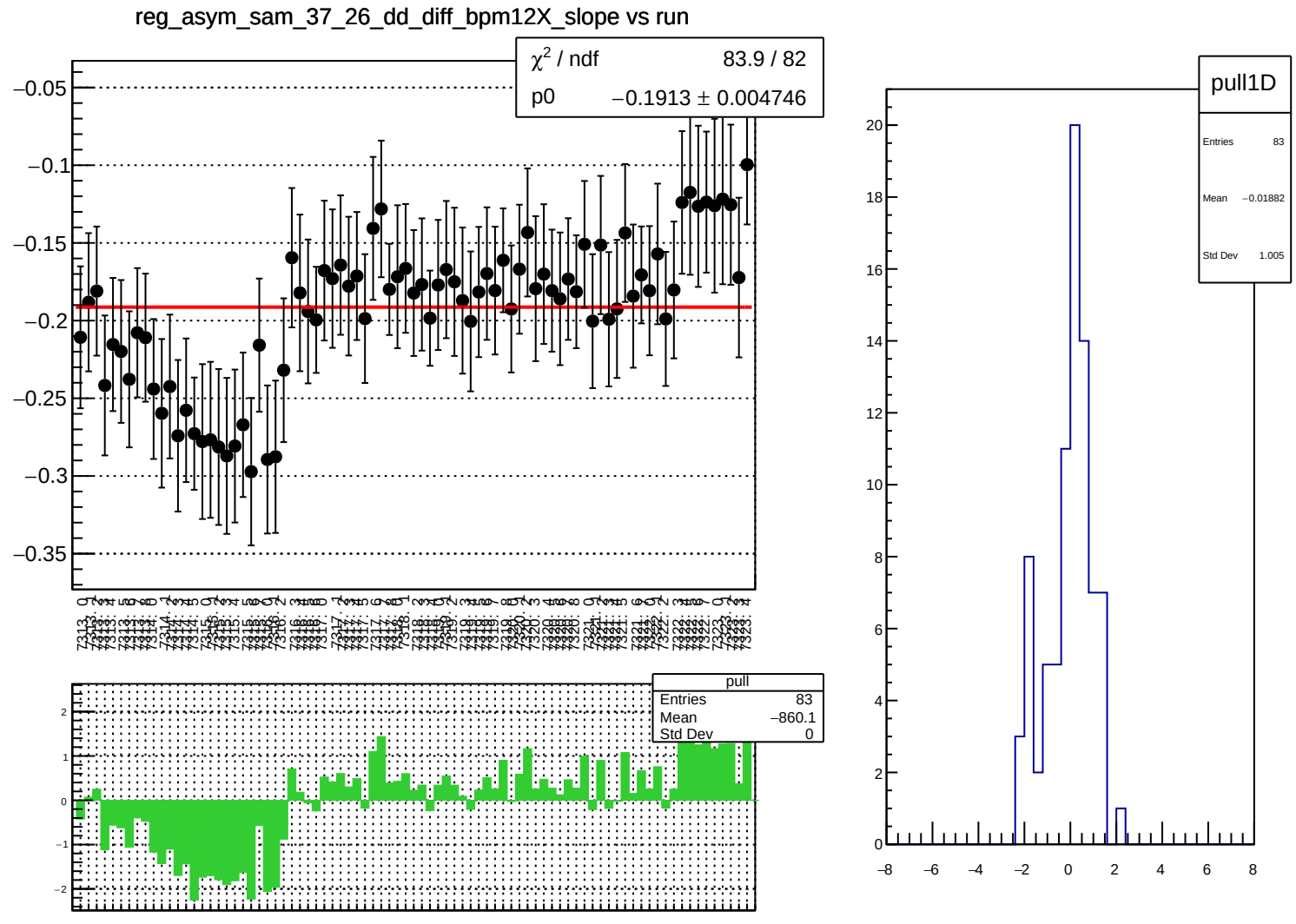

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.48 / 82
p0 −0.3355 ± 0.01152
pull
Entries 83
Mean −729.9
Std Dev 0
pull1D
Entries 83
Mean −0.008878
Std Dev 0.4454

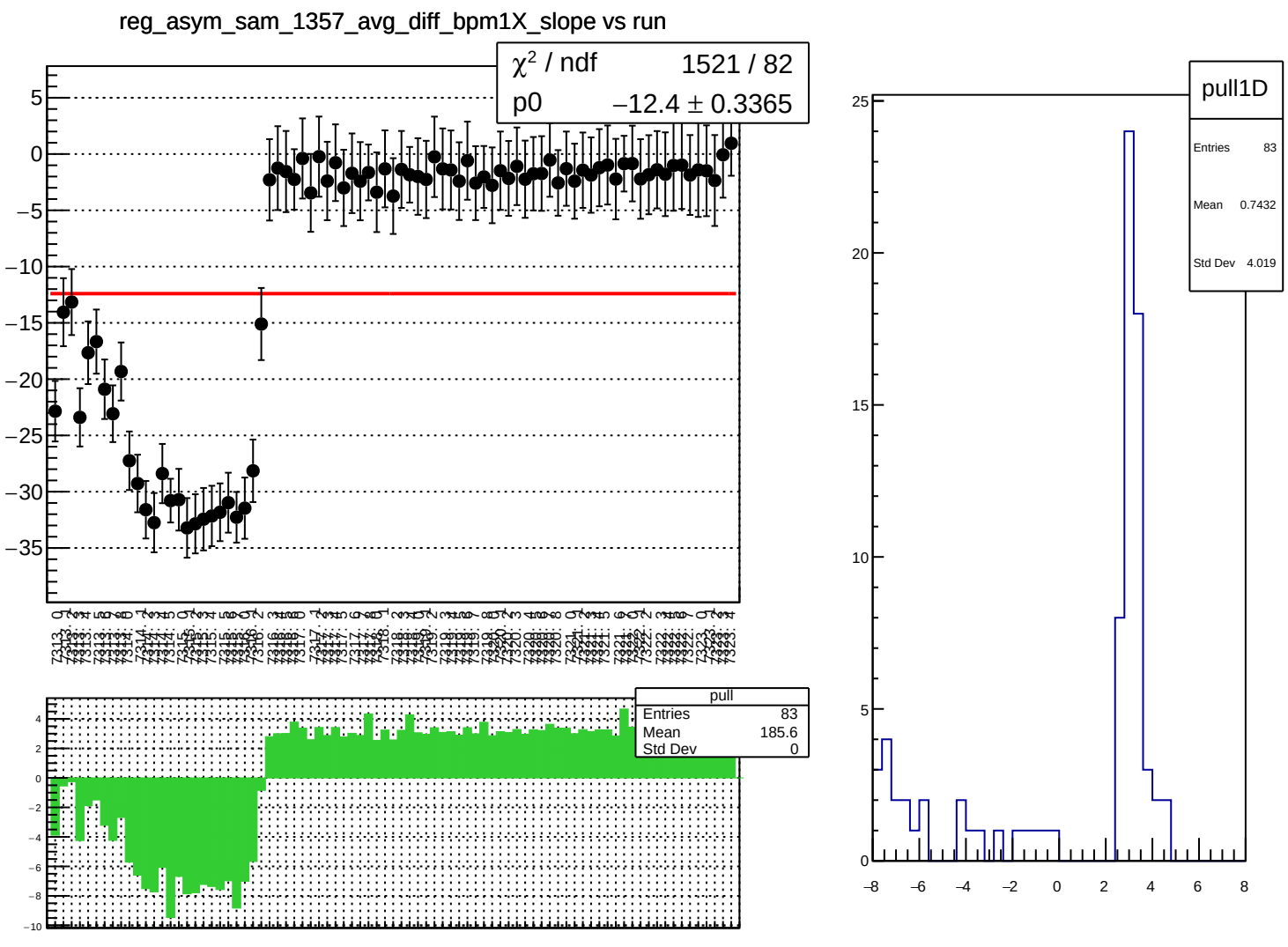

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1535 / 82
p0 −3.914 ± 0.1334
pull
Entries 83
Mean 156
Std Dev 0
pull1D
Entries 83
Mean 0.868
Std Dev 4.008

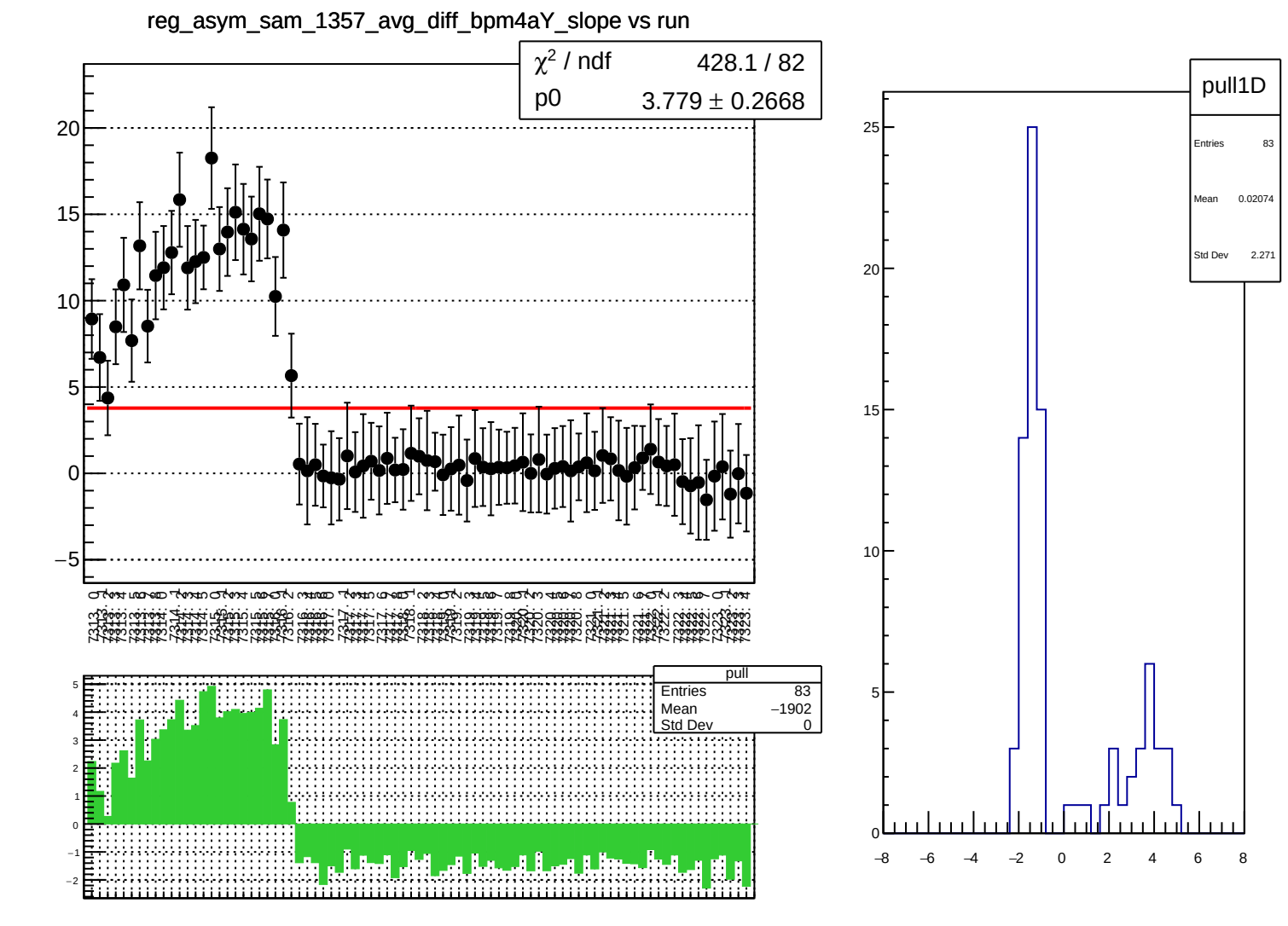

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 428.1 / 82
p0 −0.6954 ± 0.1064
pull
Entries 83
Mean 791.6
Std Dev 0
pull1D
Entries 83
Mean −0.05756
Std Dev 2.27

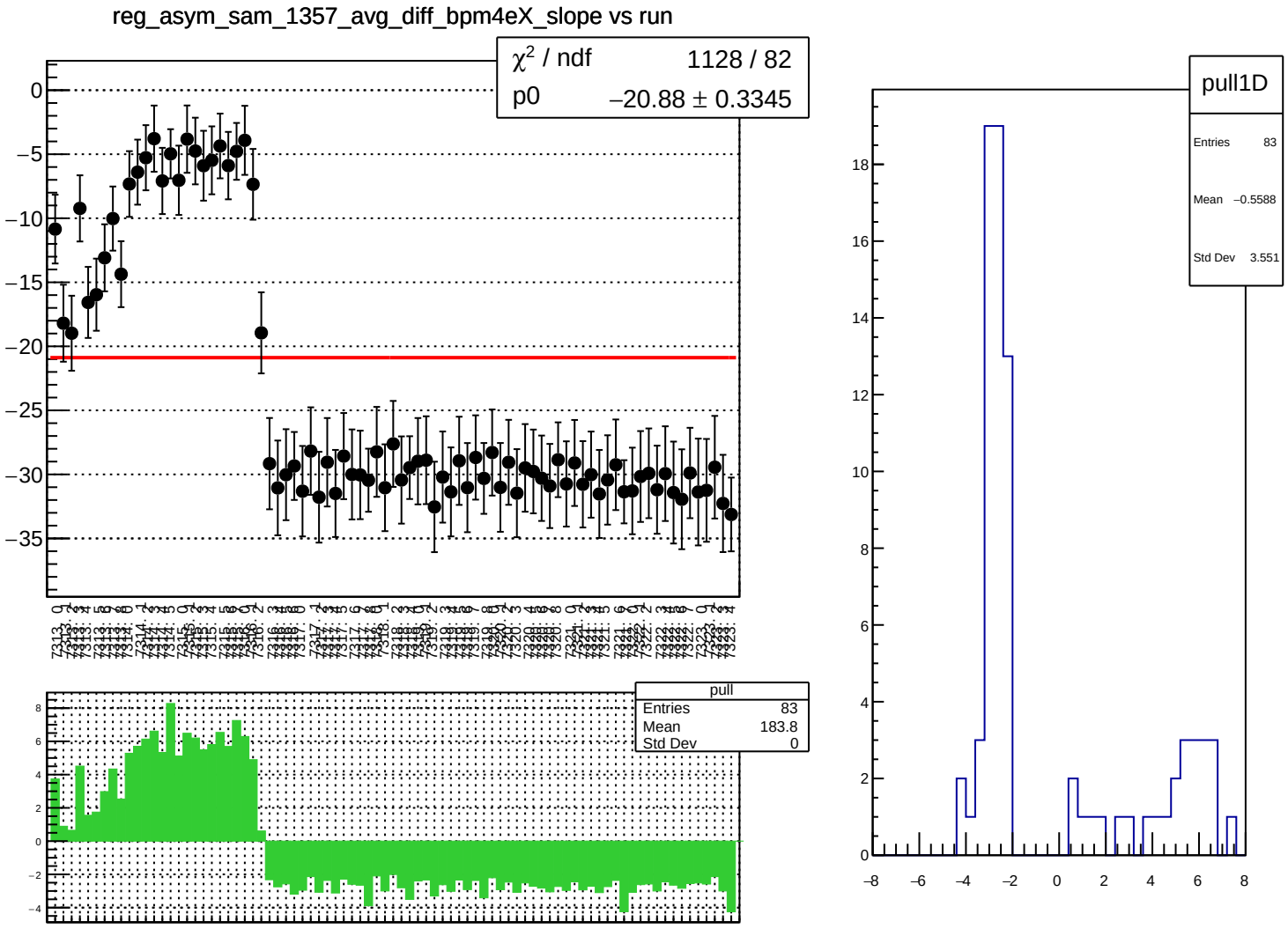

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1180 / 82
p0 −4.988 ± 0.1326
pull
Entries 83
Mean 154.4
Std Dev 0
pull1D
Entries 83
Mean −0.7771
Std Dev 3.509

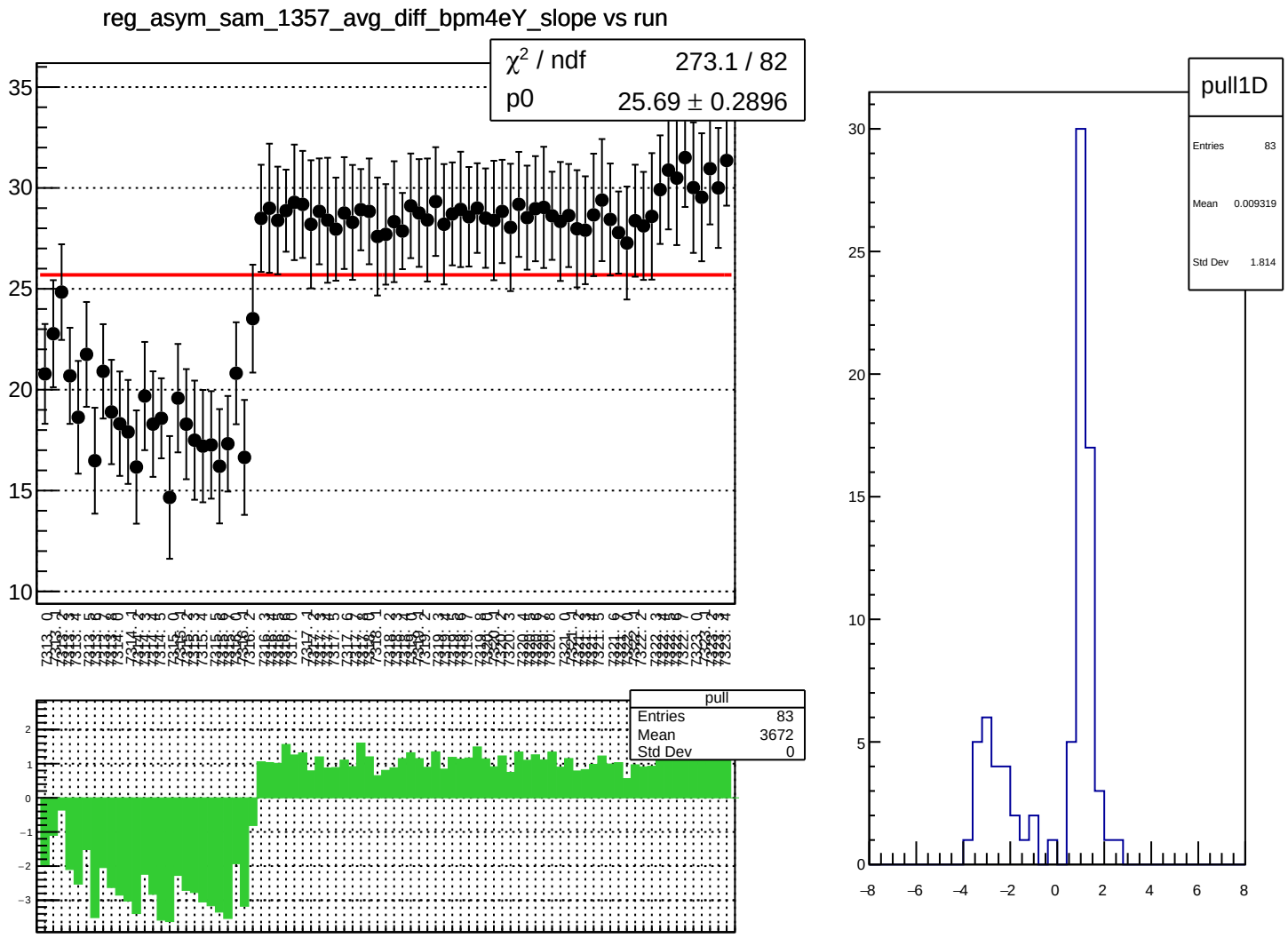

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 375.9 / 82
p0 14.63 ± 0.1155
pull
Entries 83
Mean 459.8
Std Dev 0
pull1D
Entries 83
Mean 0.09946
Std Dev 2.126

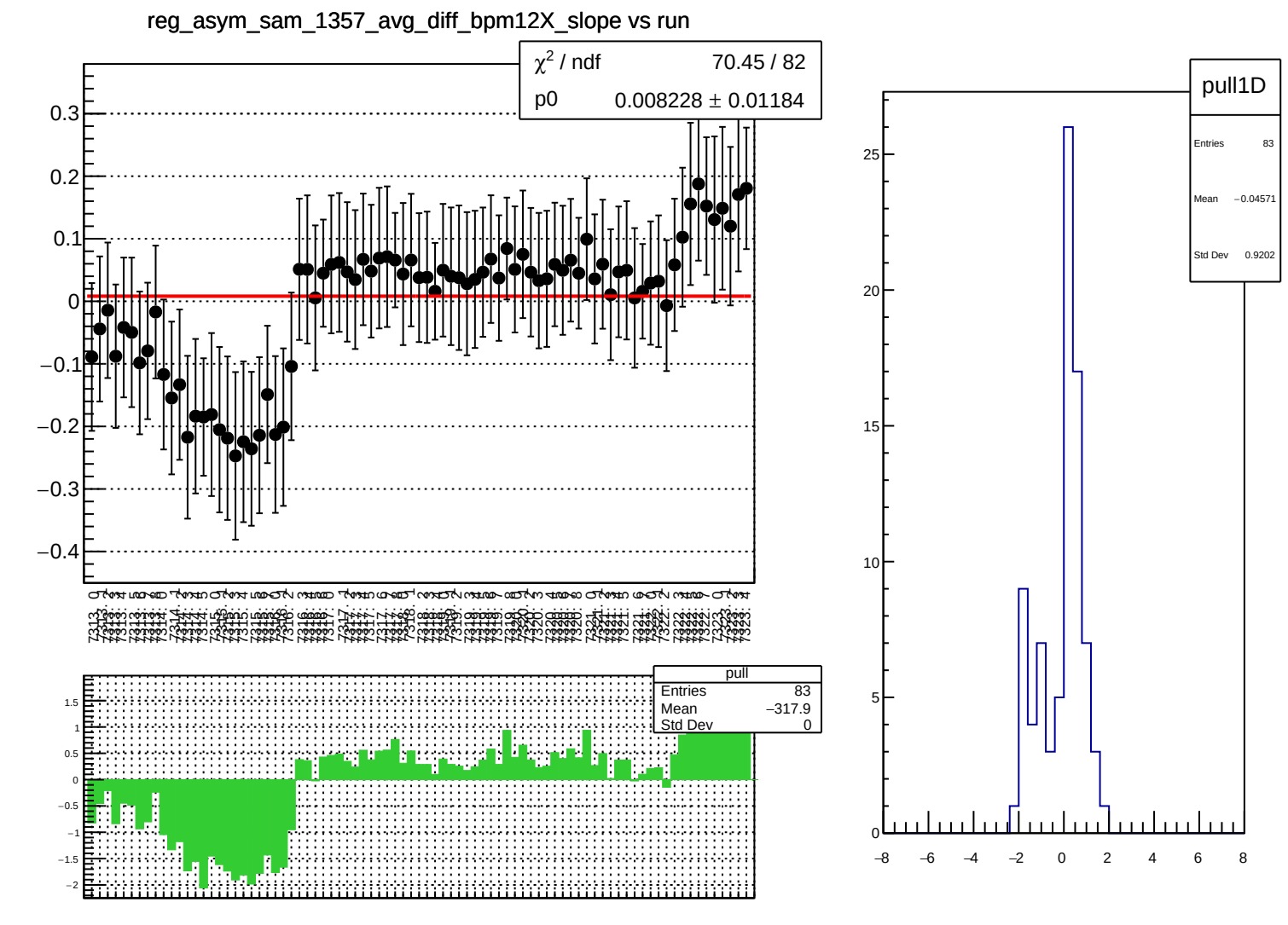

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 83.9 / 82
p0 −0.1913 ± 0.004746
pull
Entries 83
Mean −860.1
Std Dev 0
pull1D
Entries 83
Mean −0.01882
Std Dev 1.005

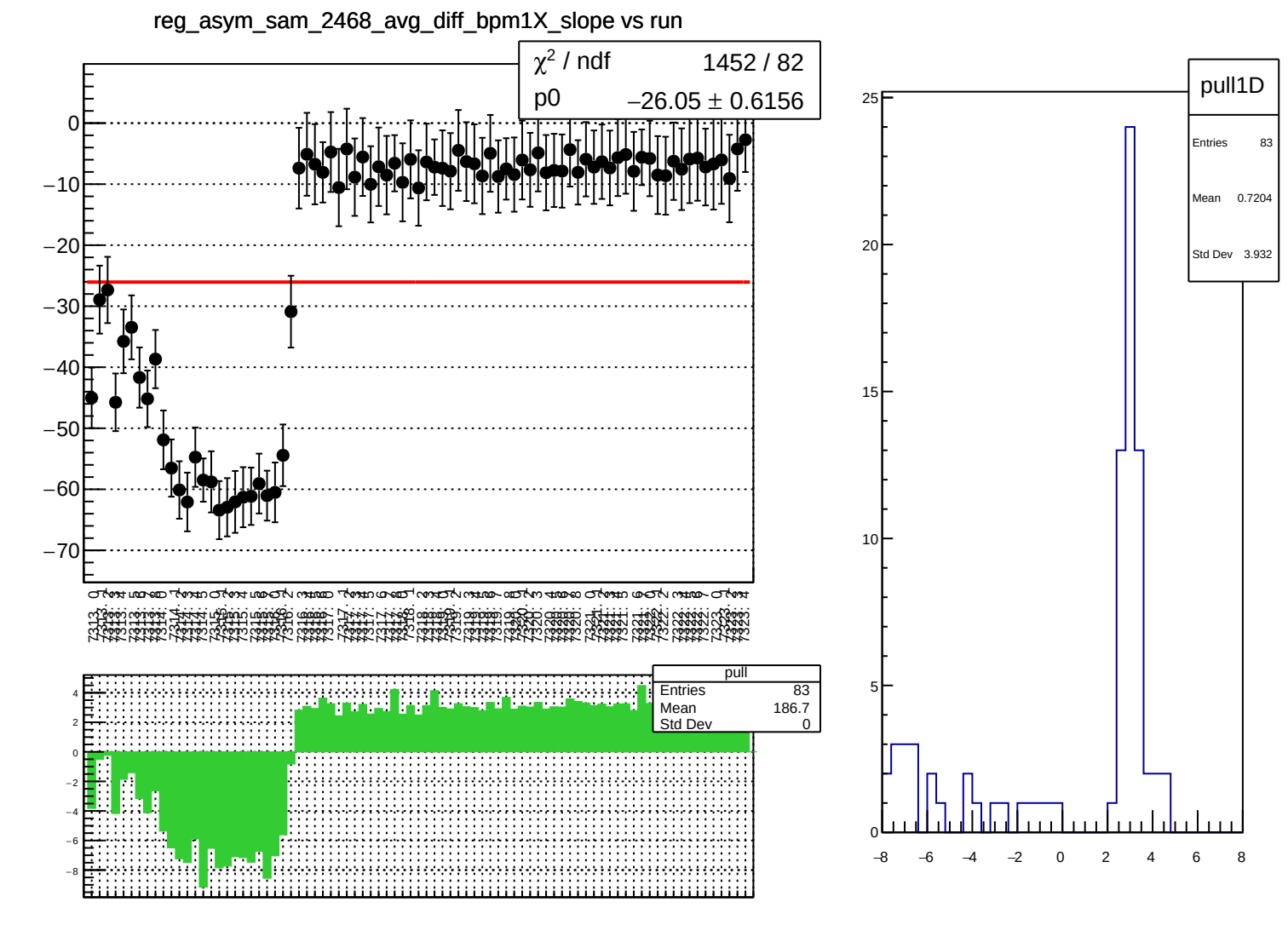

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1521 / 82
p0 −12.4 ± 0.3365
pull
Entries 83
Mean 185.6
Std Dev 0
pull1D
Entries 83
Mean 0.7432
Std Dev 4.019

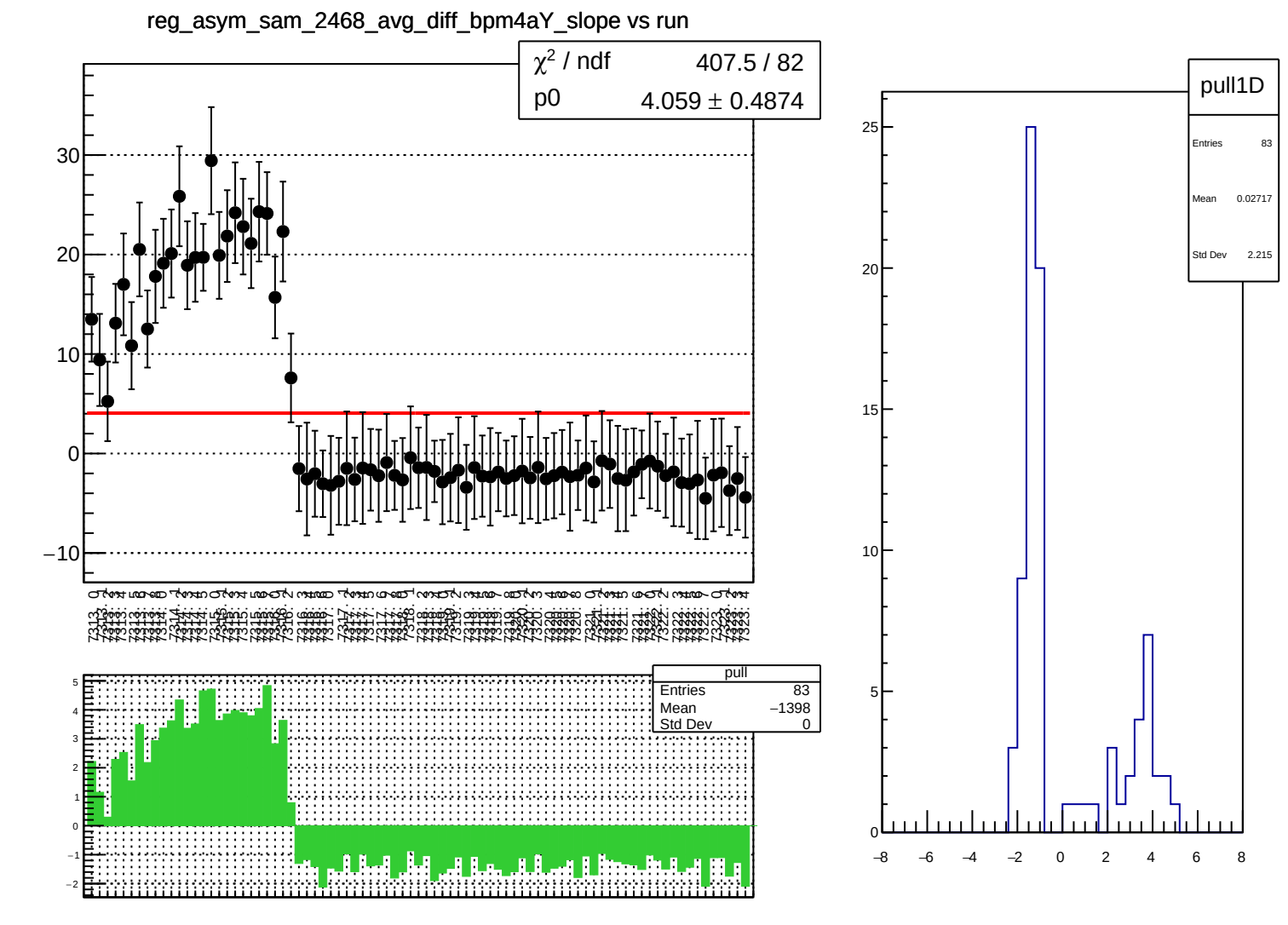

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 428.1 / 82
p0 3.779 ± 0.2668
pull
Entries 83
Mean −1902
Std Dev 0
pull1D
Entries 83
Mean 0.02074
Std Dev 2.271

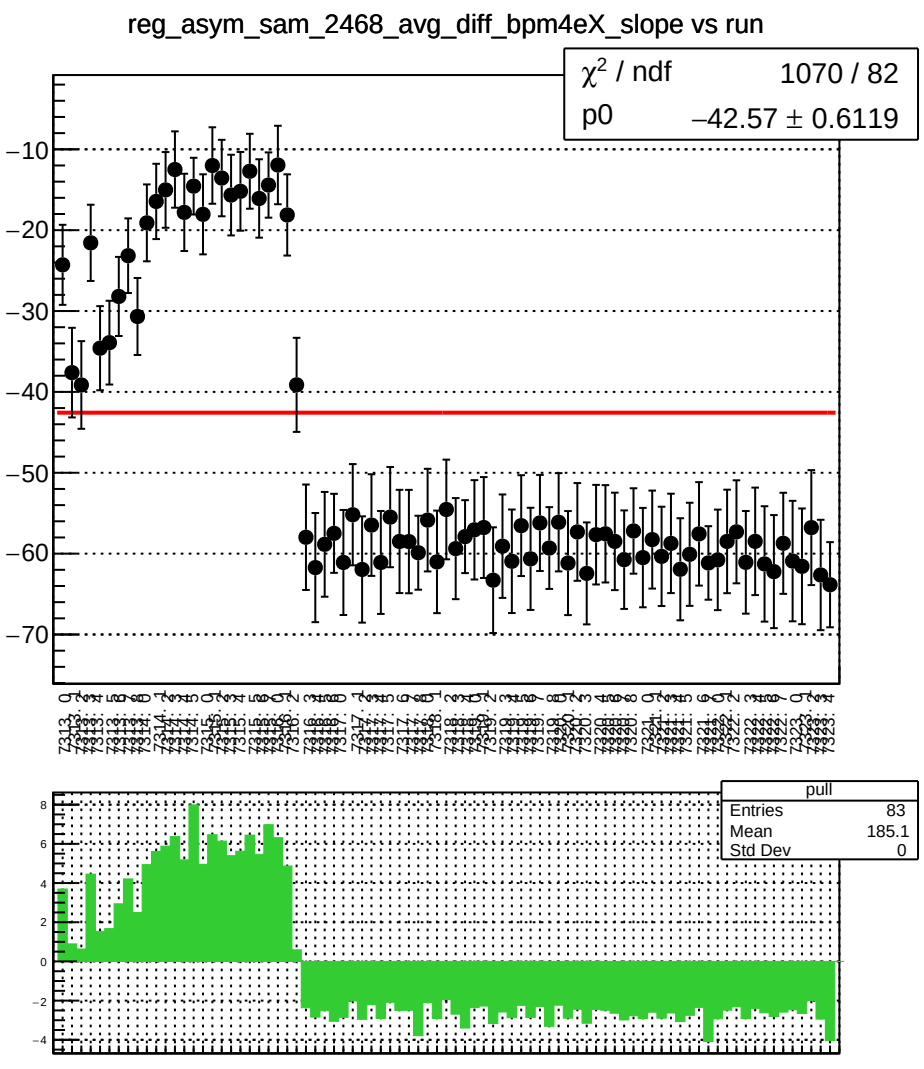

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 1128 / 82
p0 −20.88 ± 0.3345
pull
Entries 83
Mean 183.8
Std Dev 0
pull1D
Entries 83
Mean −0.5588
Std Dev 3.551

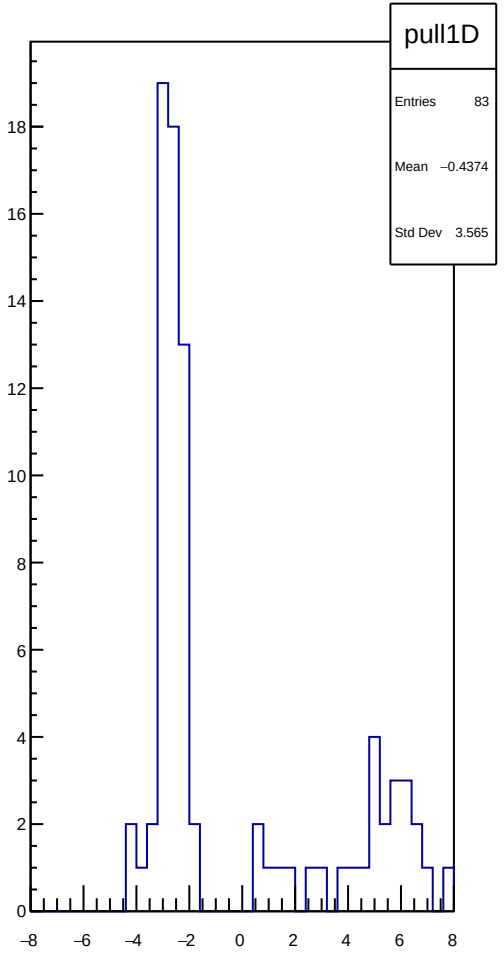

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 273.1 / 82
p0 25.69 ± 0.2896
pull
Entries 83
Mean 3672
Std Dev 0
pull1D
Entries 83
Mean 0.009319
Std Dev 1.814

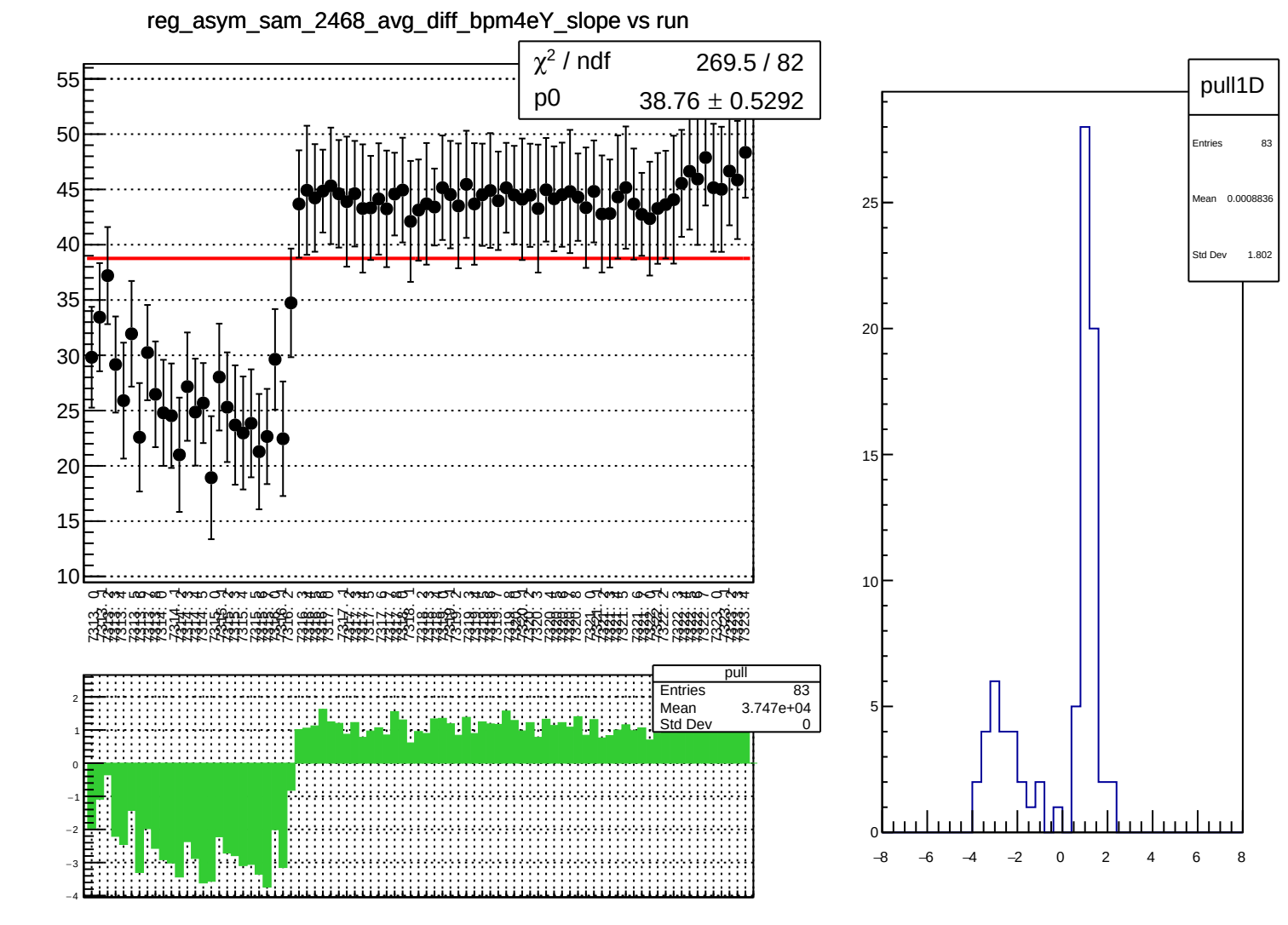

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 70.45 / 82
p0 0.008228 ± 0.01184
pull
Entries 83
Mean −317.9
Std Dev 0
pull1D
Entries 83
Mean −0.04571
Std Dev 0.9202

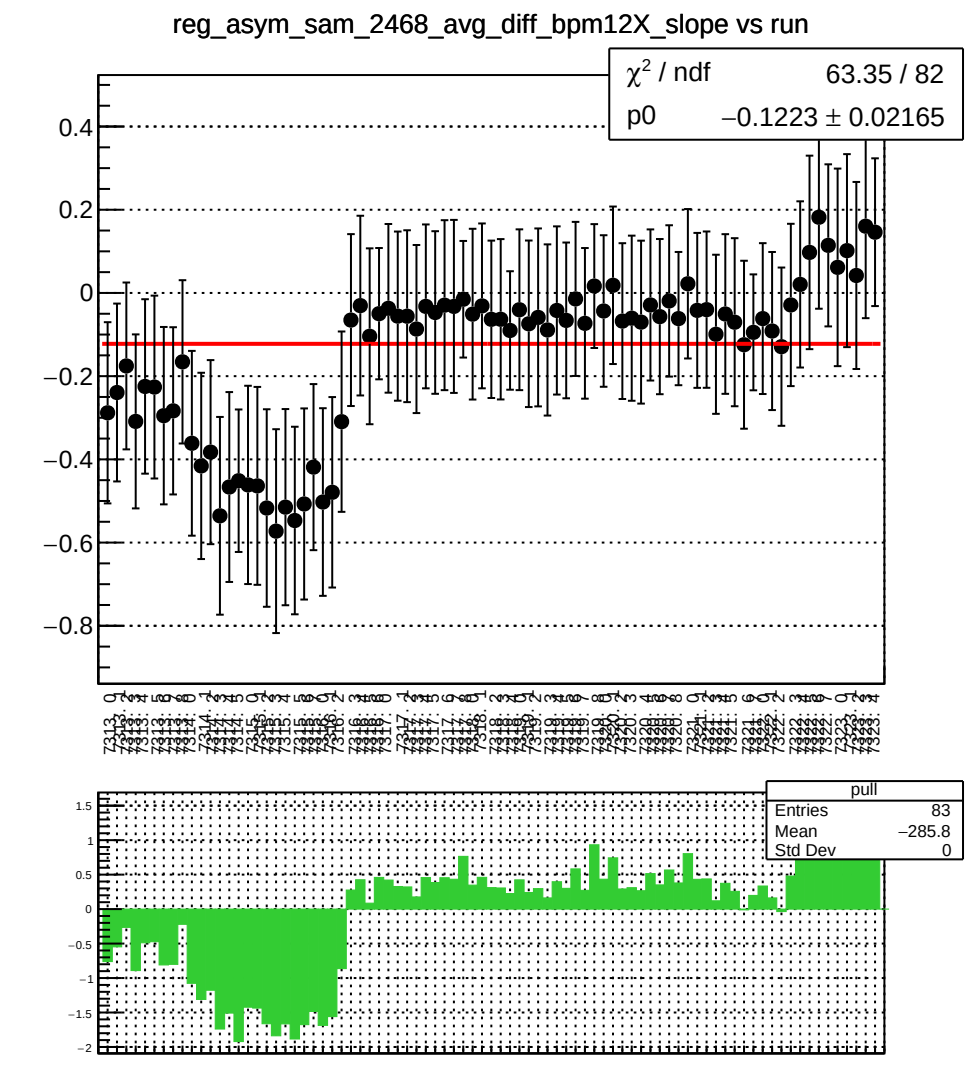

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1452 / 82
p0 −26.05 ± 0.6156
pull
Entries 83
Mean 186.7
Std Dev 0
pull1D
Entries 83
Mean 0.7204
Std Dev 3.932

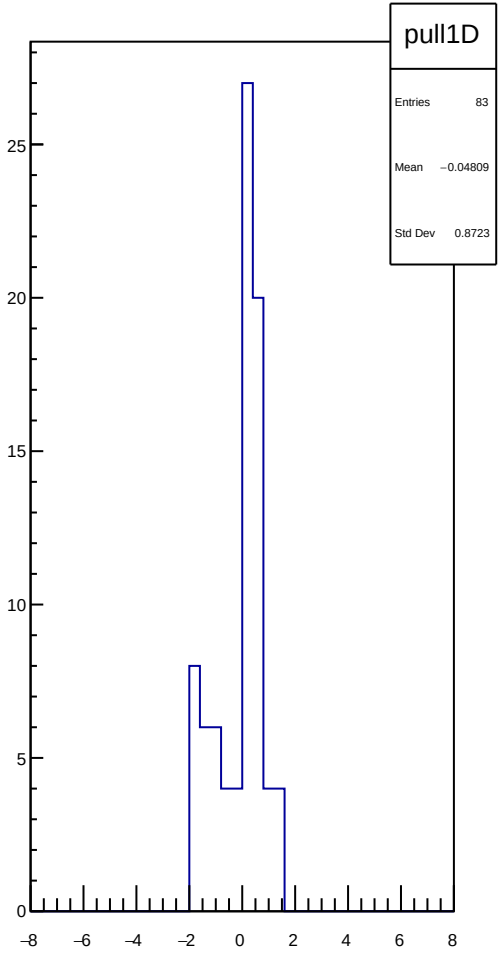

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 407.5 / 82
p0 4.059 ± 0.4874
pull
Entries 83
Mean −1398
Std Dev 0
pull1D
Entries 83
Mean 0.02717
Std Dev 2.215

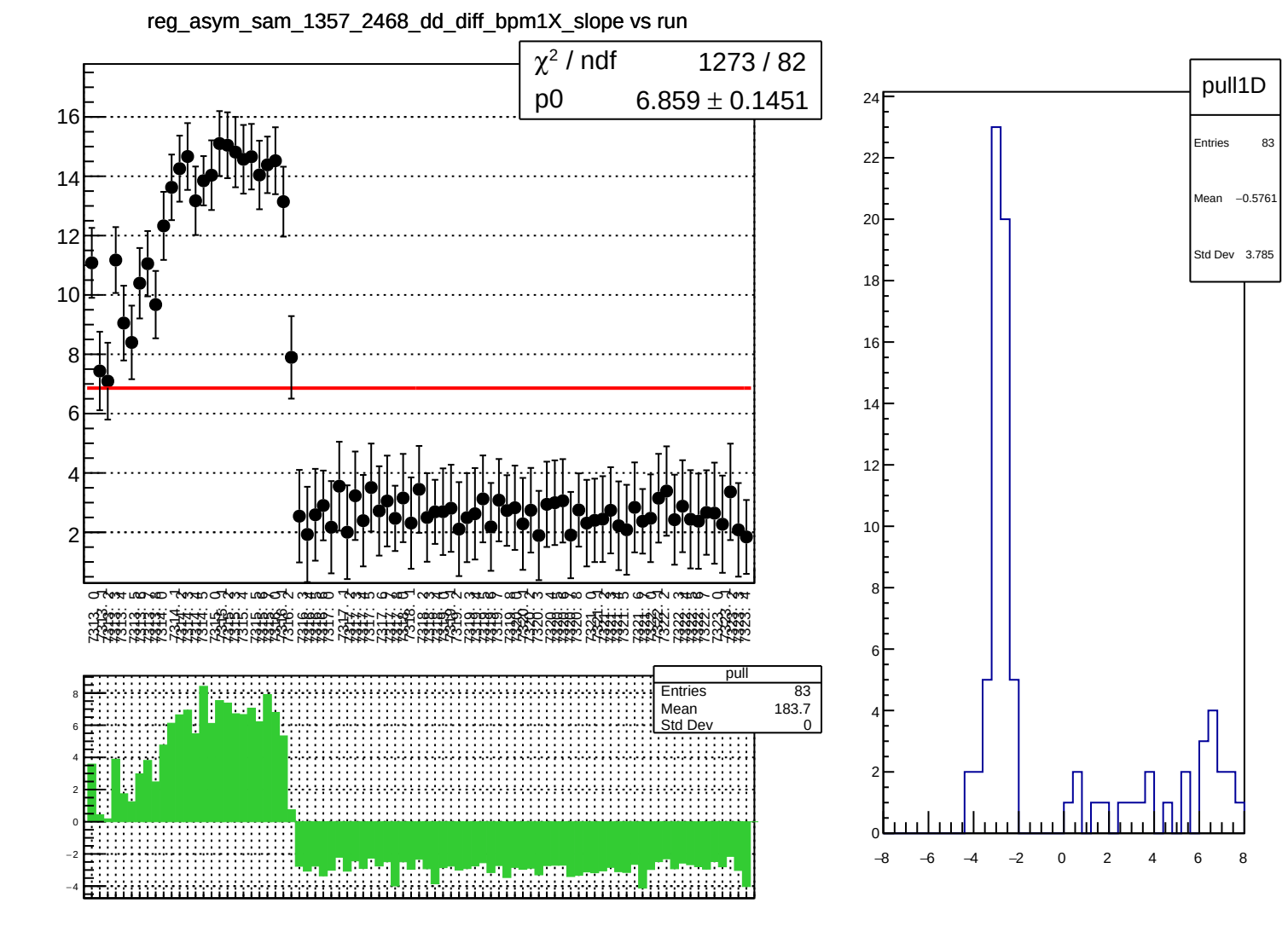

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1070 / 82
p0 −42.57 ± 0.6119
pull
Entries 83
Mean 185.1
Std Dev 0

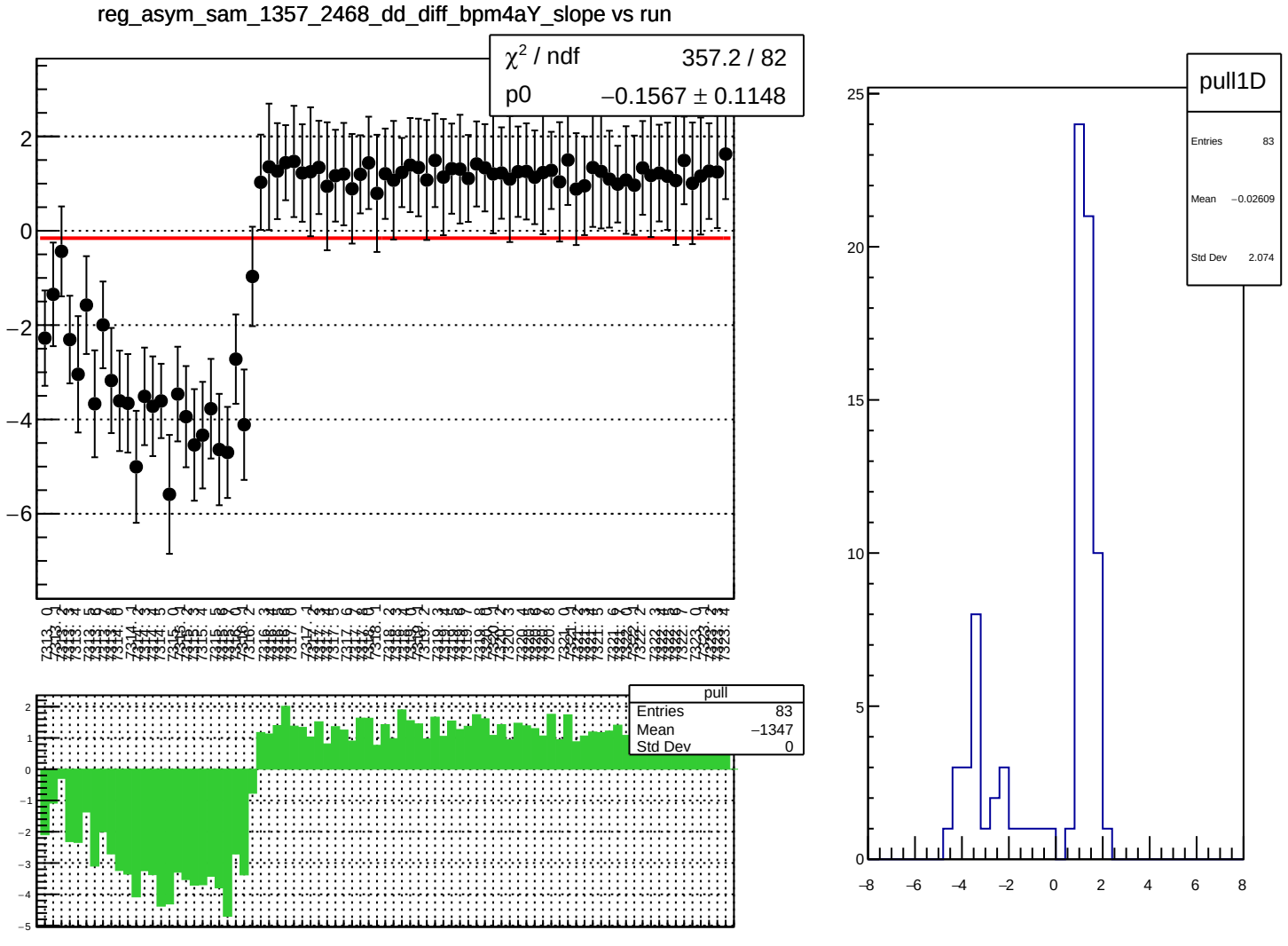

pull1D
Entries 83
Mean −0.4374
Std Dev 3.565

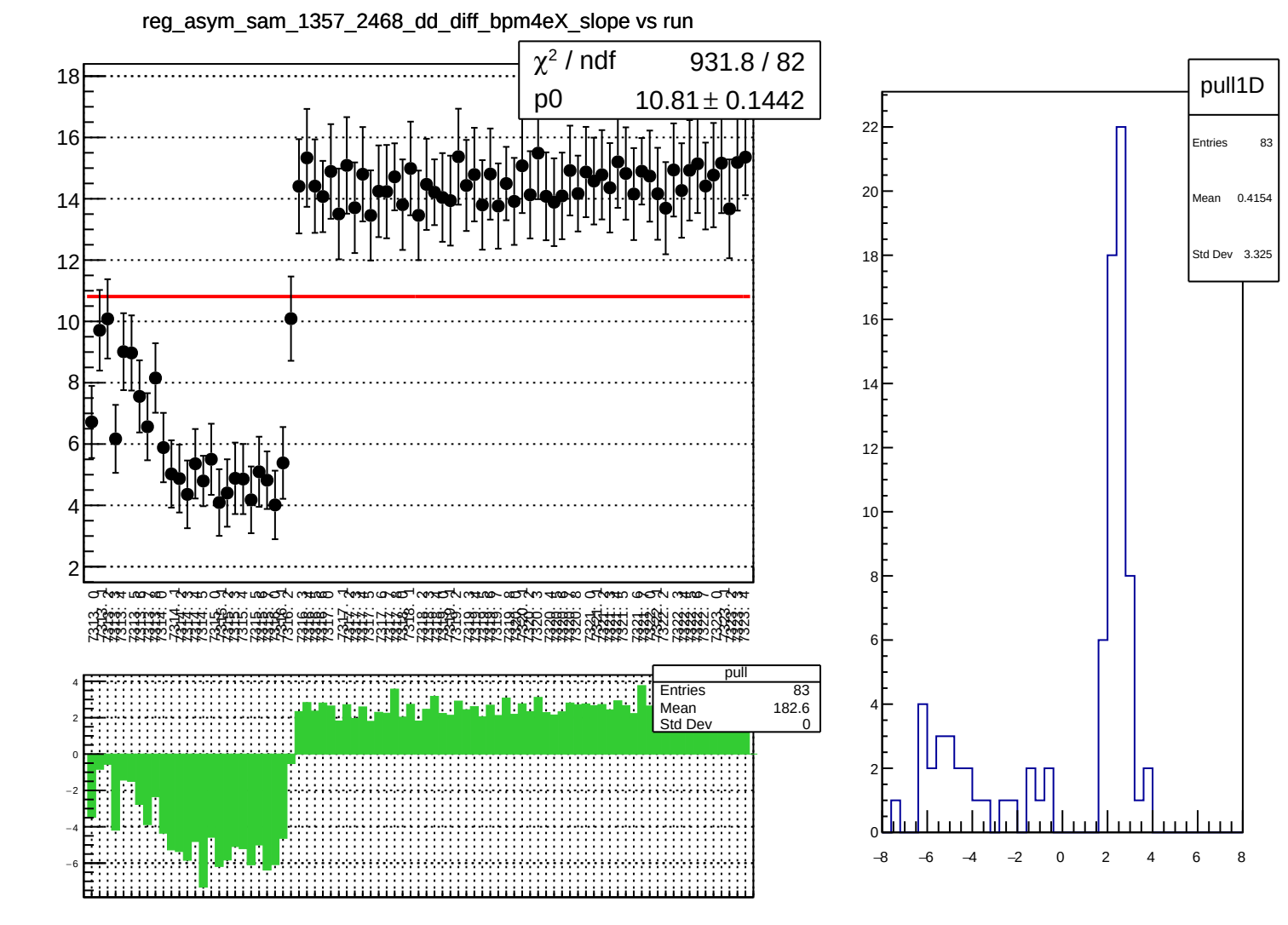

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 269.5 / 82
p0 38.76 ± 0.5292
pull
Entries 83
Mean 3.747e+04
Std Dev 0
pull1D
Entries 83
Mean 0.0008836
Std Dev 1.802

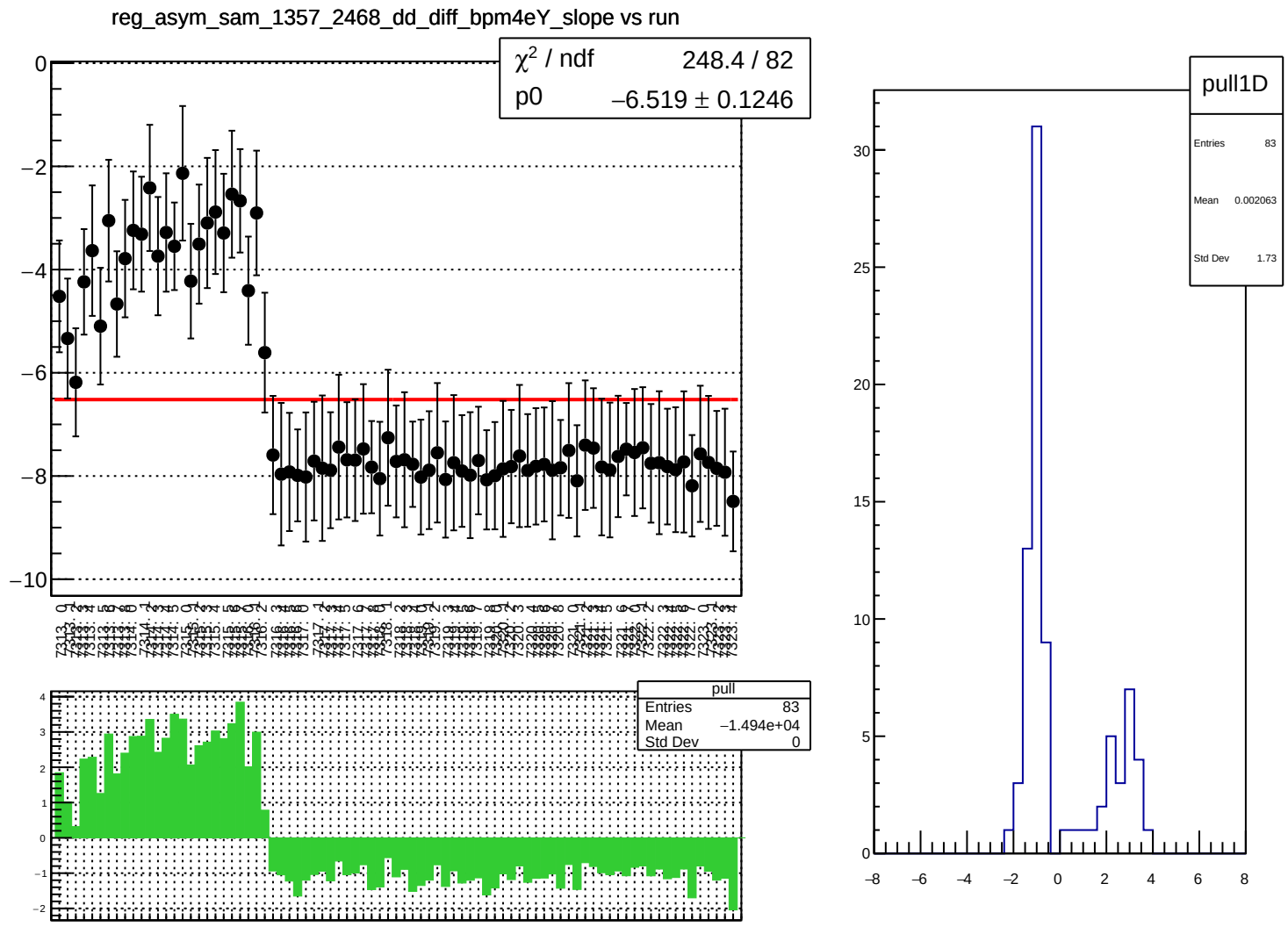

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 63.35 / 82
p0 −0.1223 ± 0.02165
pull
Entries 83
Mean −285.8
Std Dev 0

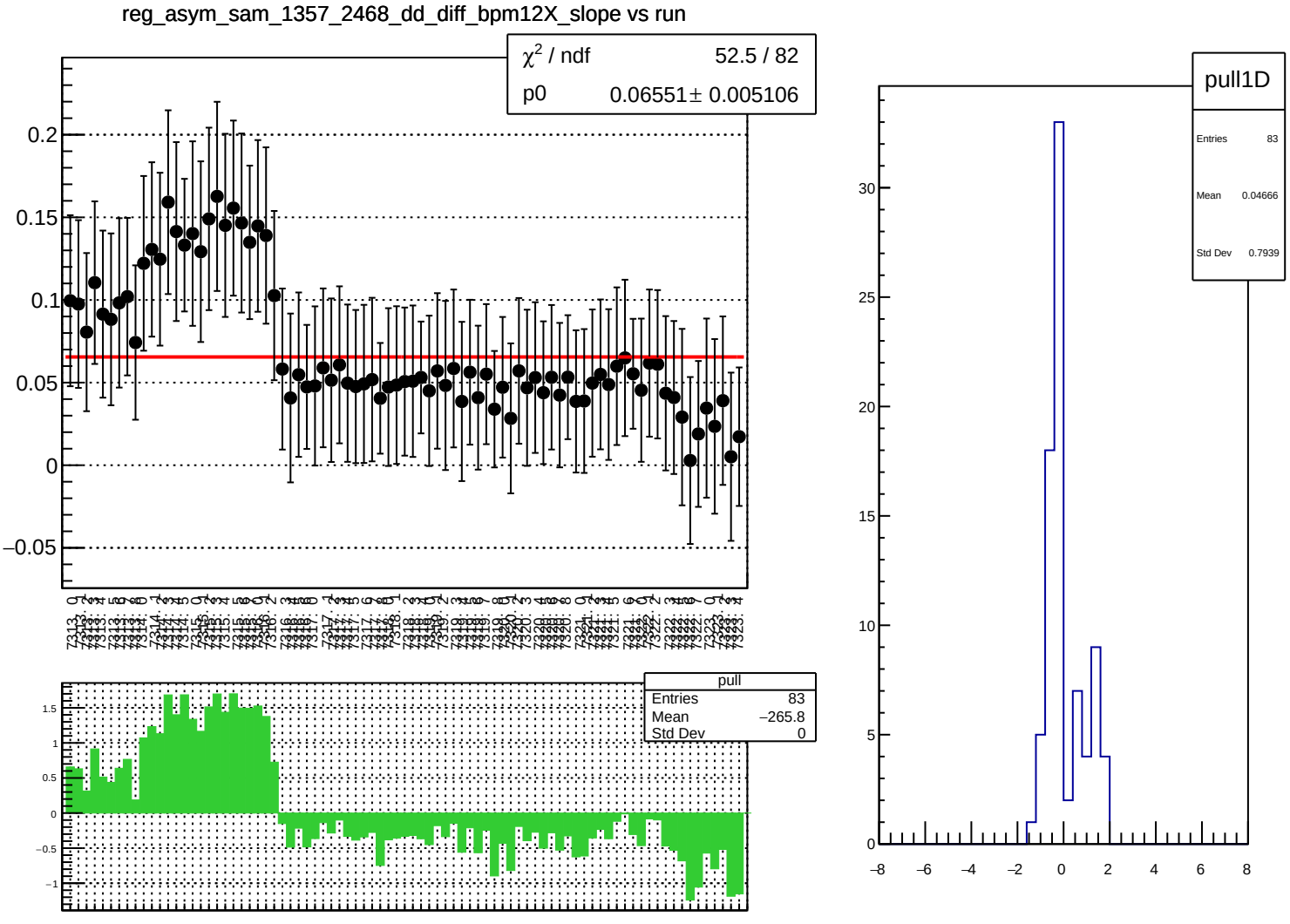

pull1D
Entries 83
Mean −0.04809
Std Dev 0.8723

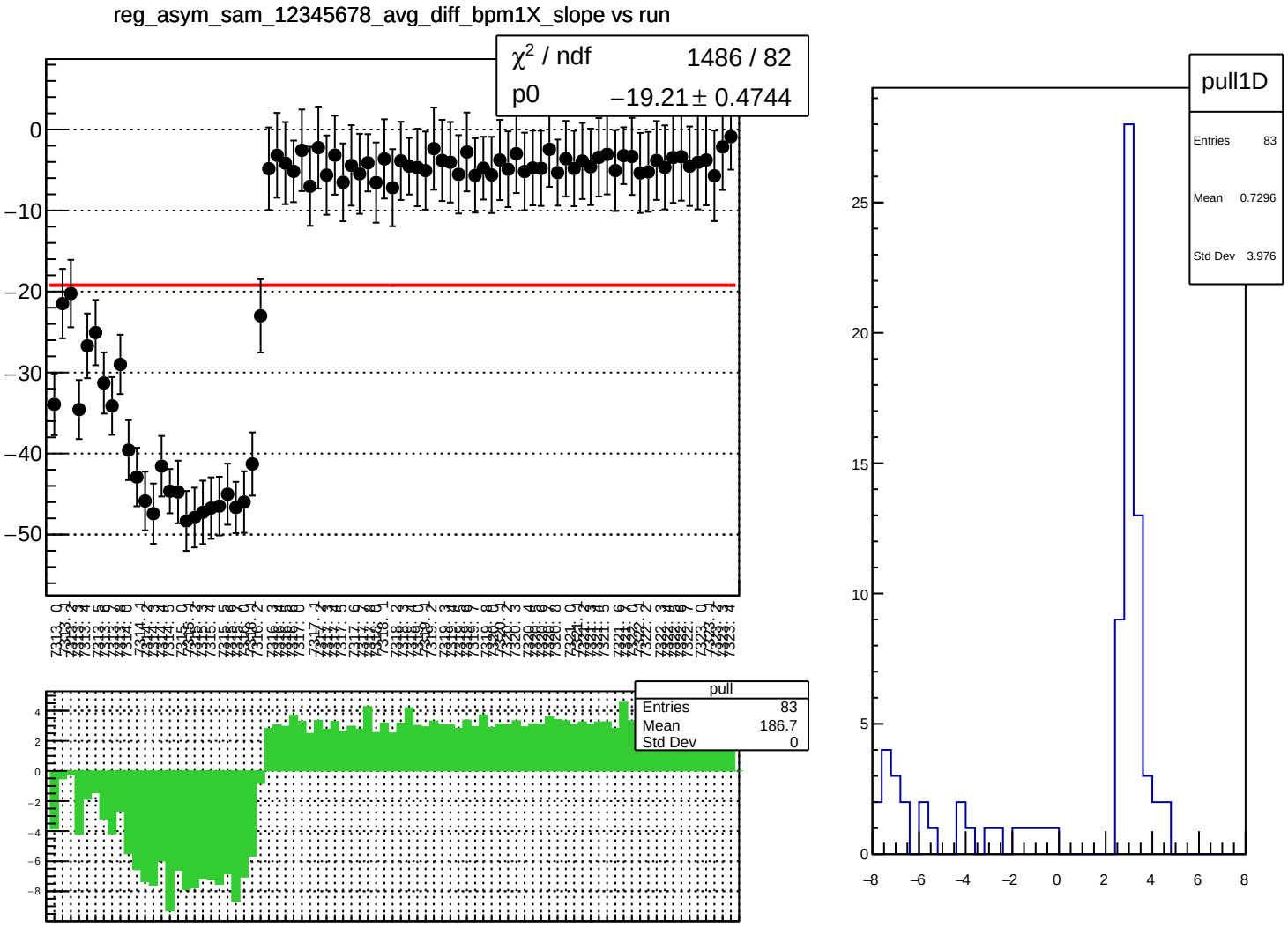

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1273 / 82
p0 6.859 ± 0.1451
pull
Entries 83
Mean 183.7
Std Dev 0
pull1D
Entries 83
Mean −0.5761
Std Dev 3.785

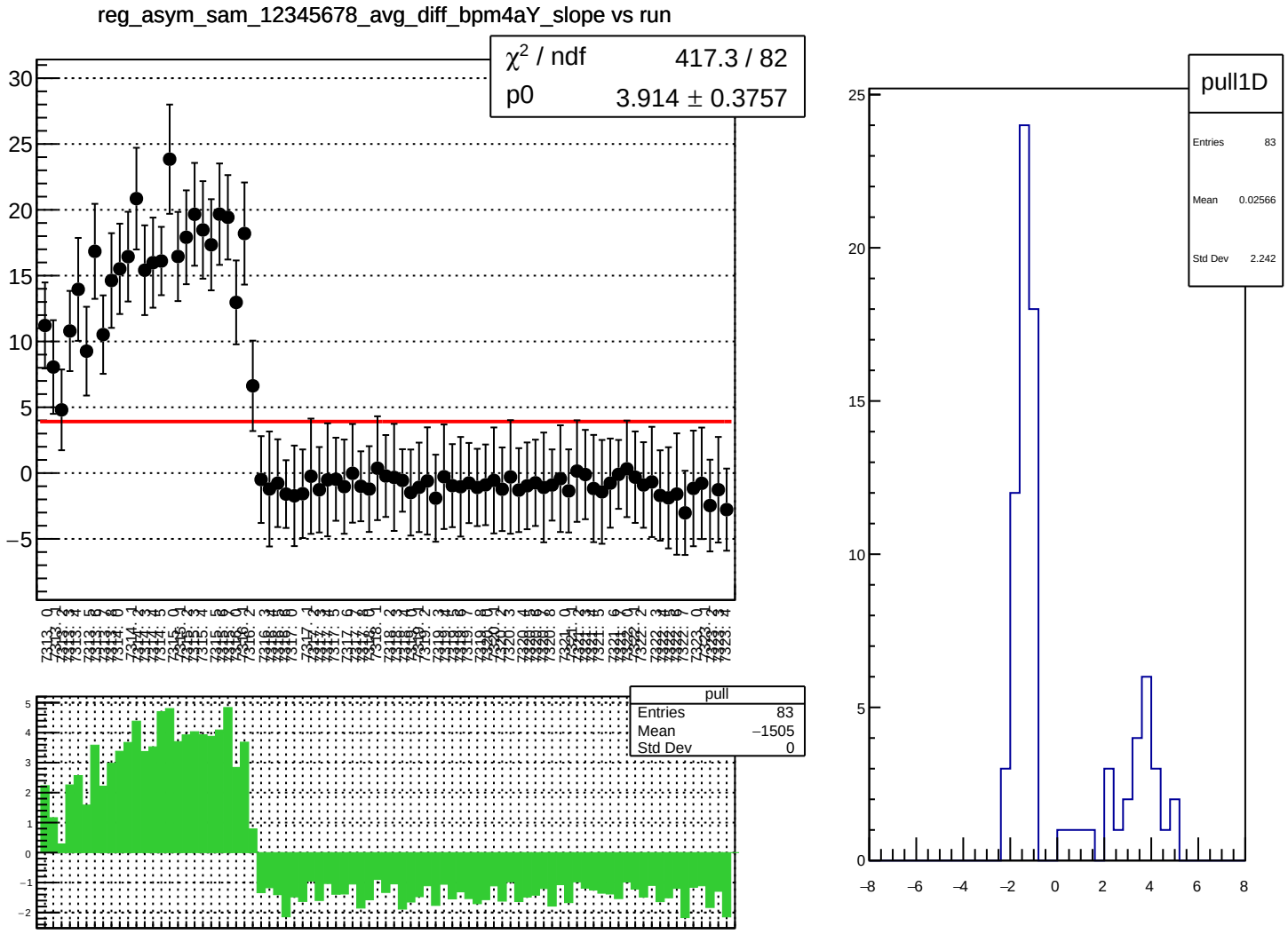

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 357.2 / 82
p0 −0.1567 ± 0.1148
pull
Entries 83
Mean −1347
Std Dev 0
pull1D
Entries 83
Mean −0.02609
Std Dev 2.074

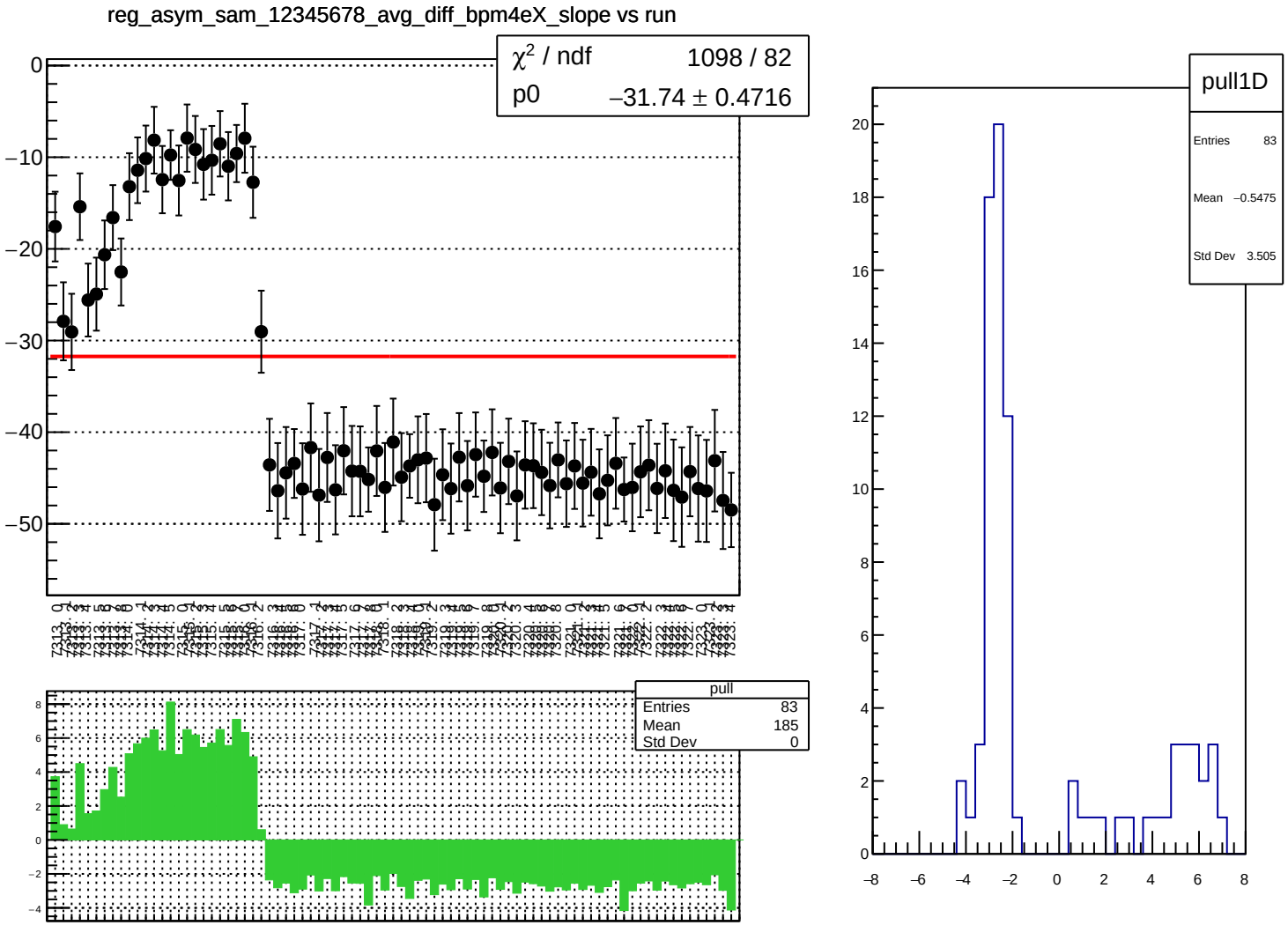

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 931.8 / 82
p0 10.81 ± 0.1442
pull
Entries 83
Mean 182.6
Std Dev 0
pull1D
Entries 83
Mean 0.4154
Std Dev 3.325

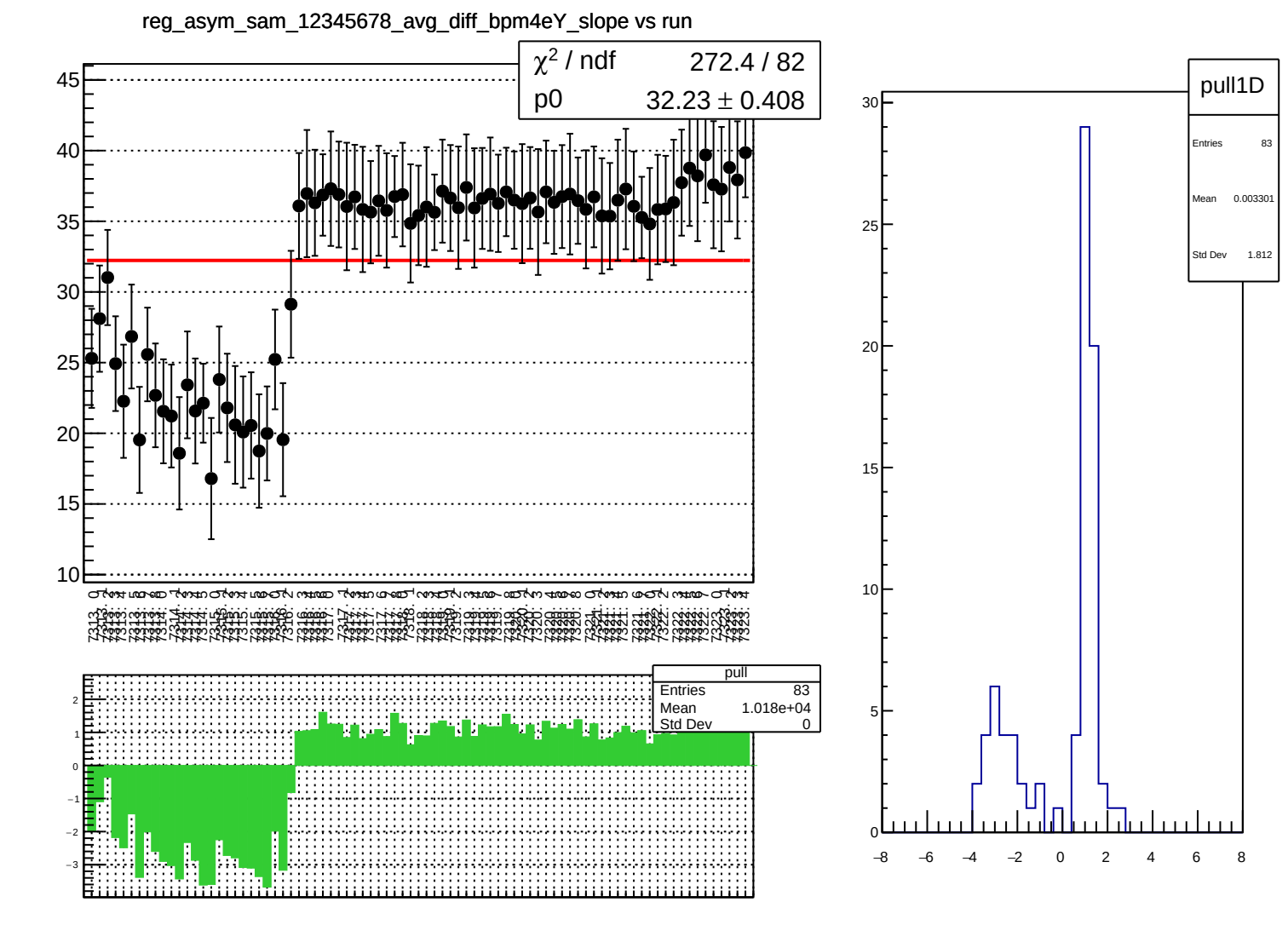

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 248.4 / 82
p0 −6.519 ± 0.1246
pull
Entries 83
Mean −1.494e+04
Std Dev 0
pull1D
Entries 83
Mean 0.002063
Std Dev 1.73

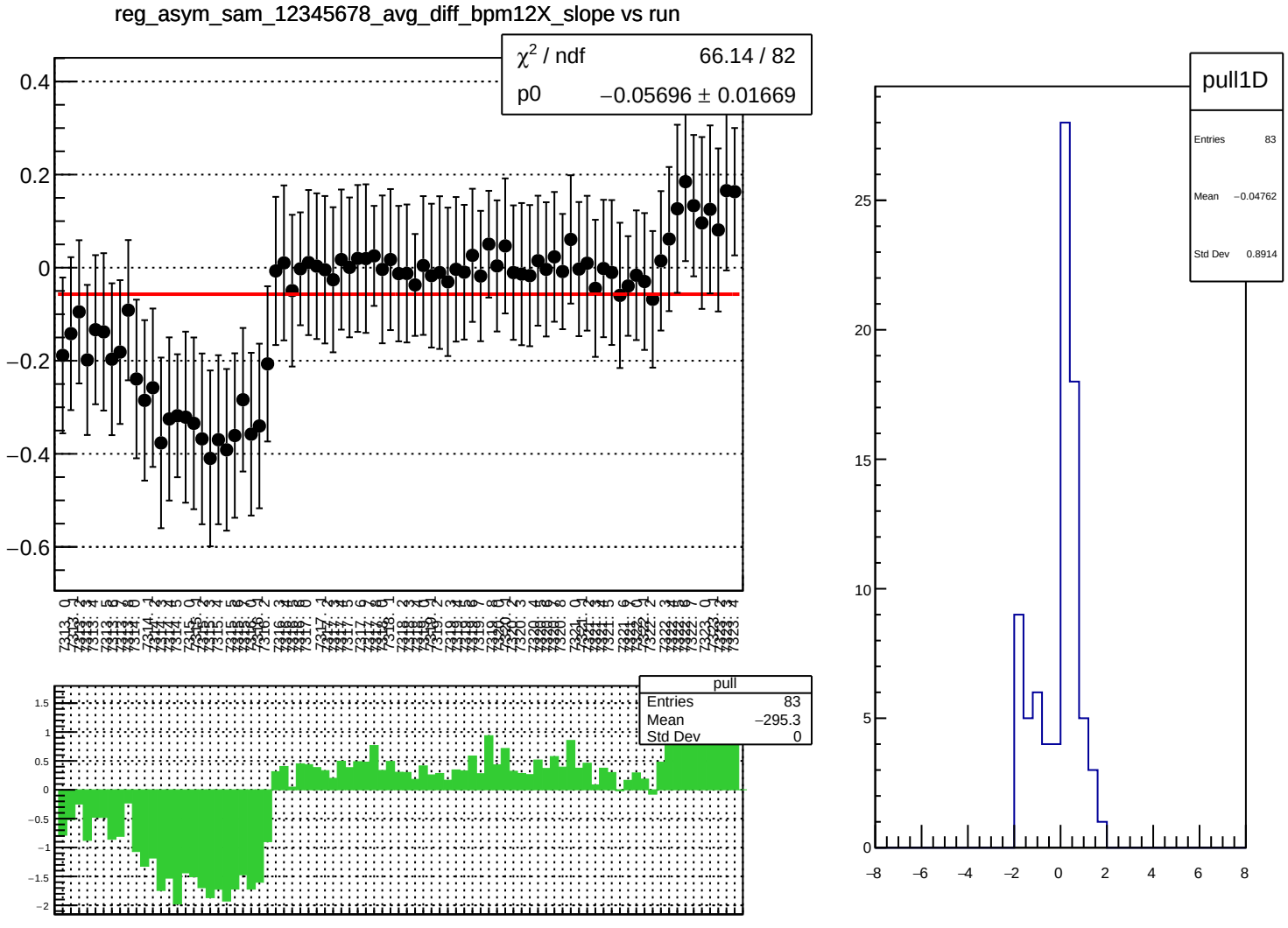

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 52.5 / 82
p0 0.06551 ± 0.005106
pull
Entries 83
Mean −265.8
Std Dev 0
pull1D
Entries 83
Mean 0.04666
Std Dev 0.7939

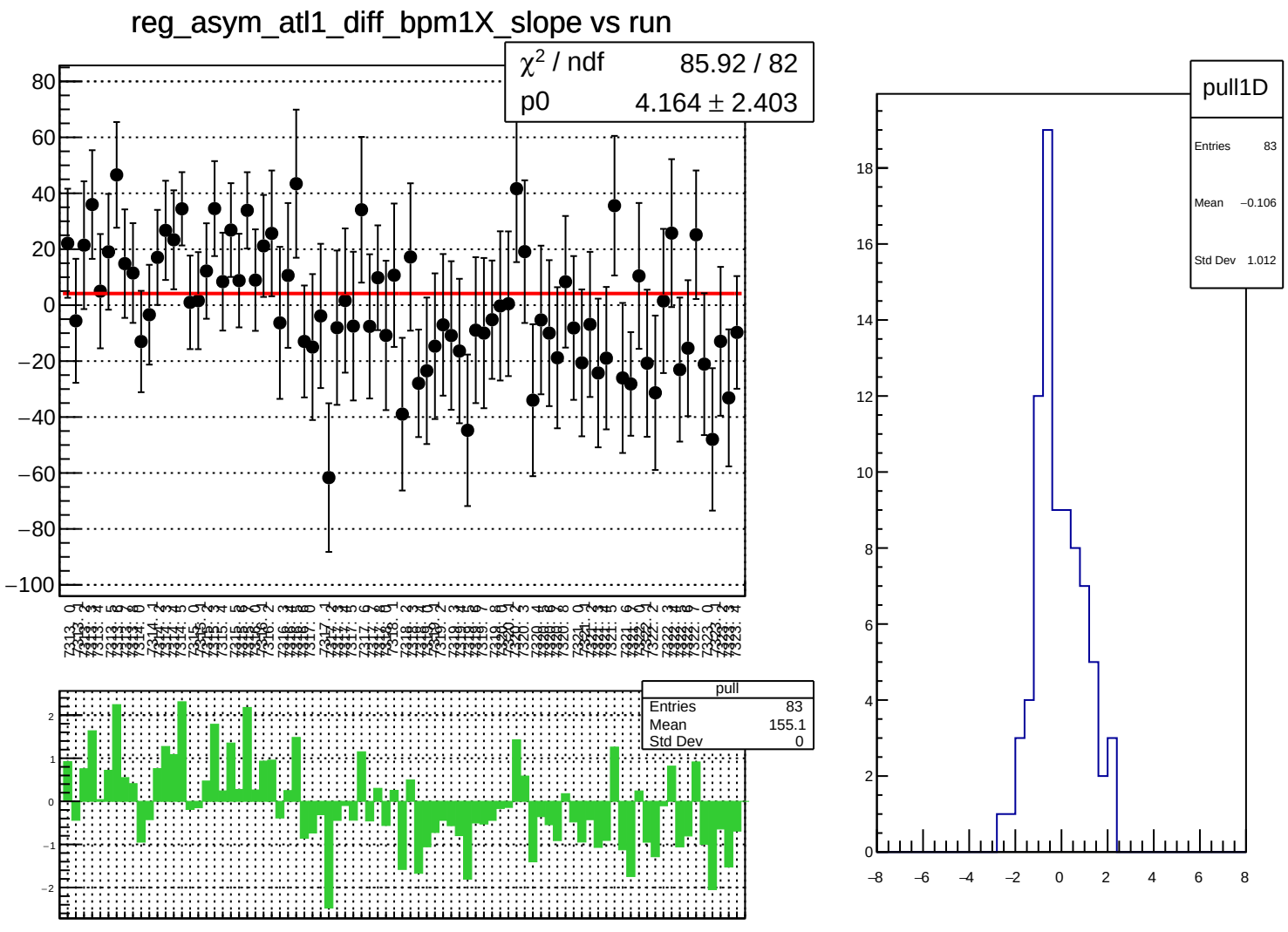

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1486 / 82
p0 −19.21 ± 0.4744
pull
Entries 83
Mean 186.7
Std Dev 0
pull1D
Entries 83
Mean 0.7296
Std Dev 3.976

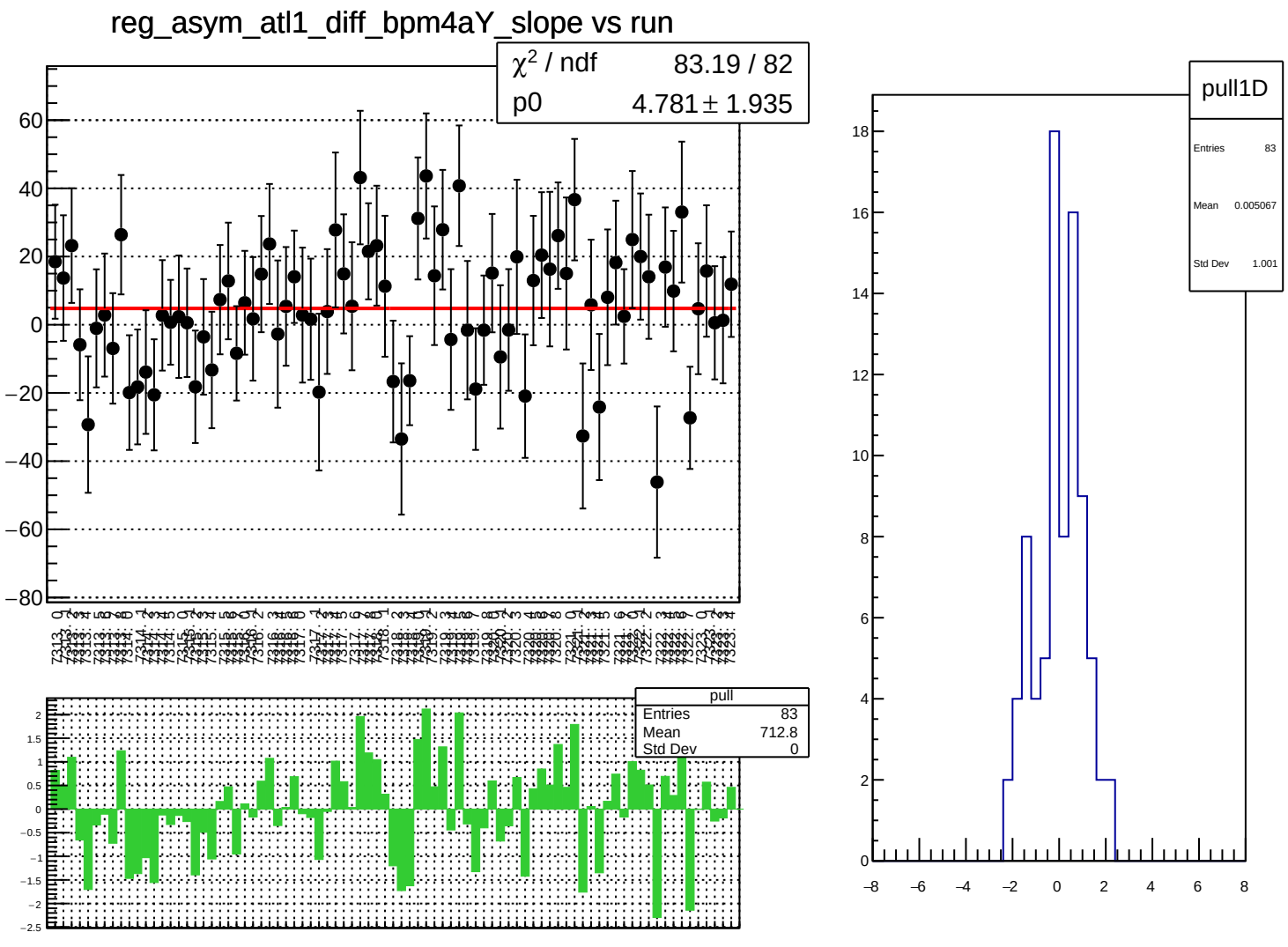

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 417.3 / 82
p0 3.914 ± 0.3757
pull
Entries 83
Mean −1505
Std Dev 0
pull1D
Entries 83
Mean 0.02566
Std Dev 2.242

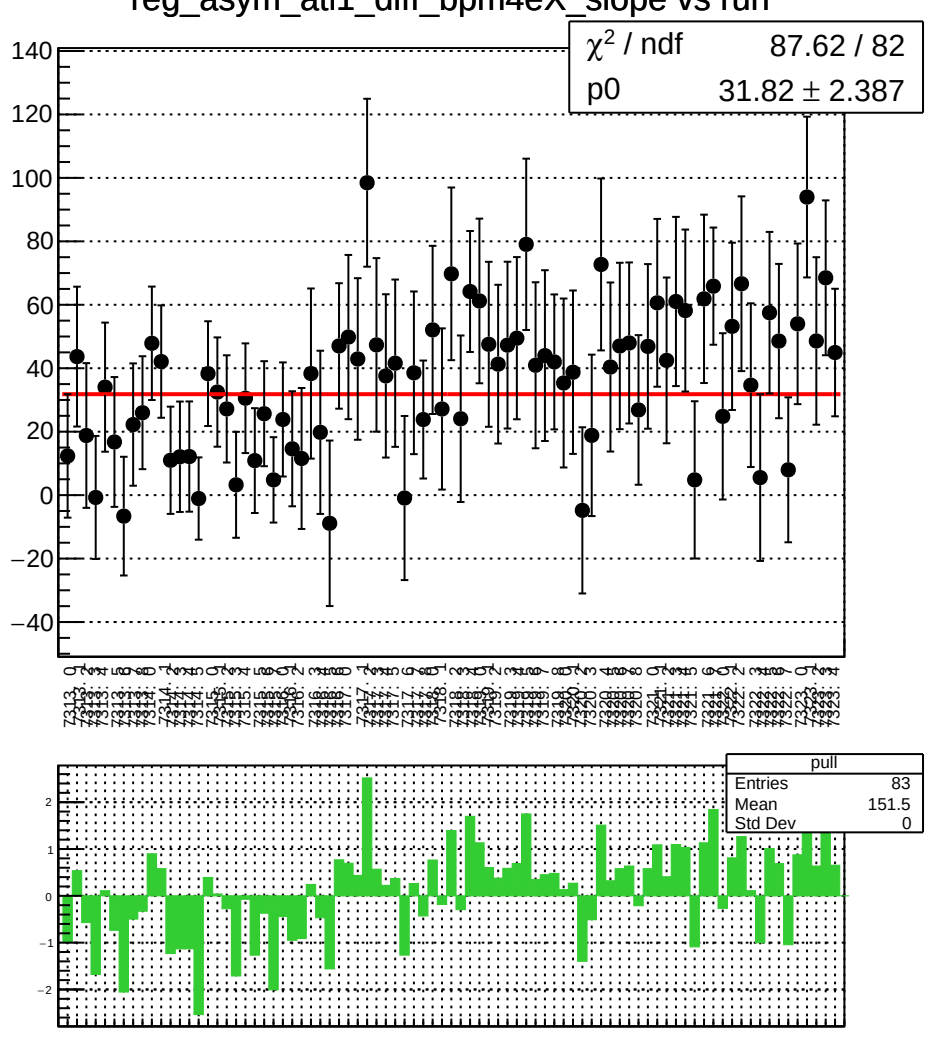

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1098 / 82
p0 −31.74 ± 0.4716
pull
Entries 83
Mean 185
Std Dev 0
pull1D
Entries 83
Mean −0.5475
Std Dev 3.505

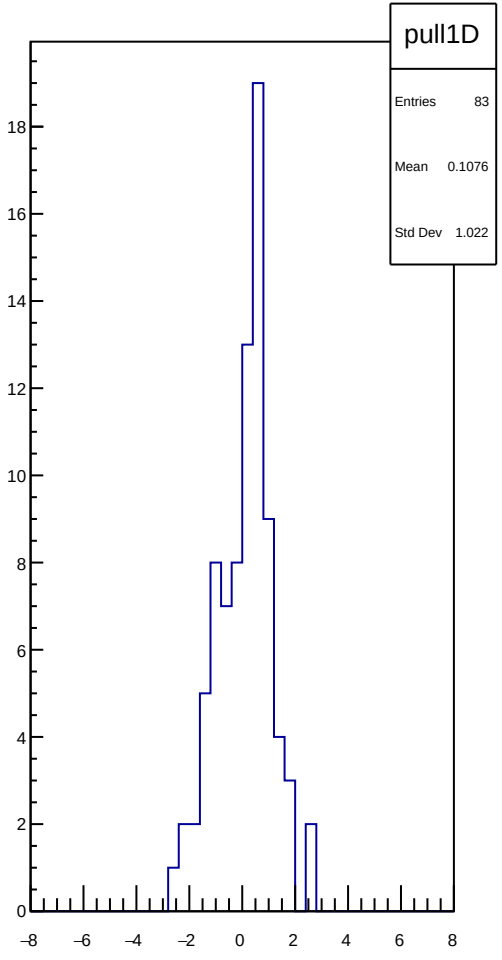

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 272.4 / 82
p0 32.23 ± 0.408
pull
Entries 83
Mean 1.018e+04
Std Dev 0
pull1D
Entries 83
Mean 0.003301
Std Dev 1.812

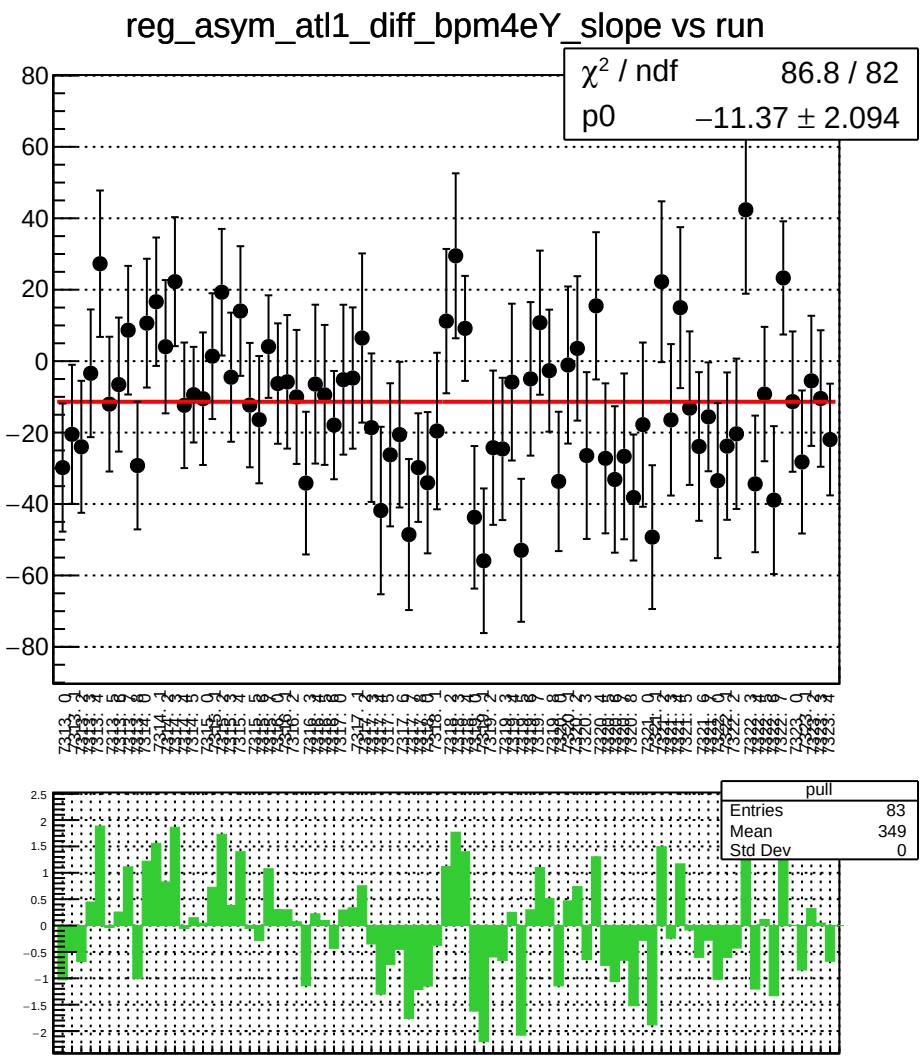

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 66.14 / 82
p0 −0.05696 ± 0.01669
pull
Entries 83
Mean −295.3
Std Dev 0
pull1D
Entries 83
Mean −0.04762
Std Dev 0.8914

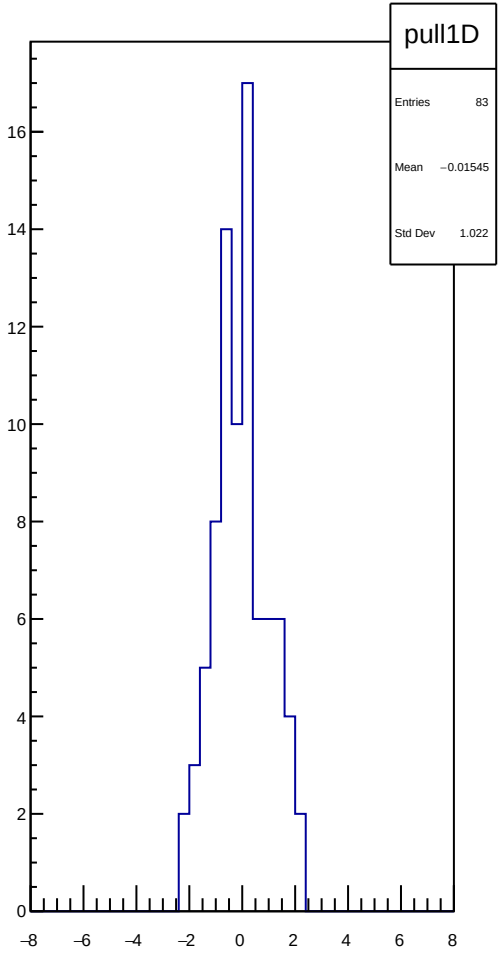

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 85.92 / 82
p0 4.164 ± 2.403
pull
Entries 83
Mean 155.1
Std Dev 0
pull1D
Entries 83
Mean −0.106
Std Dev 1.012

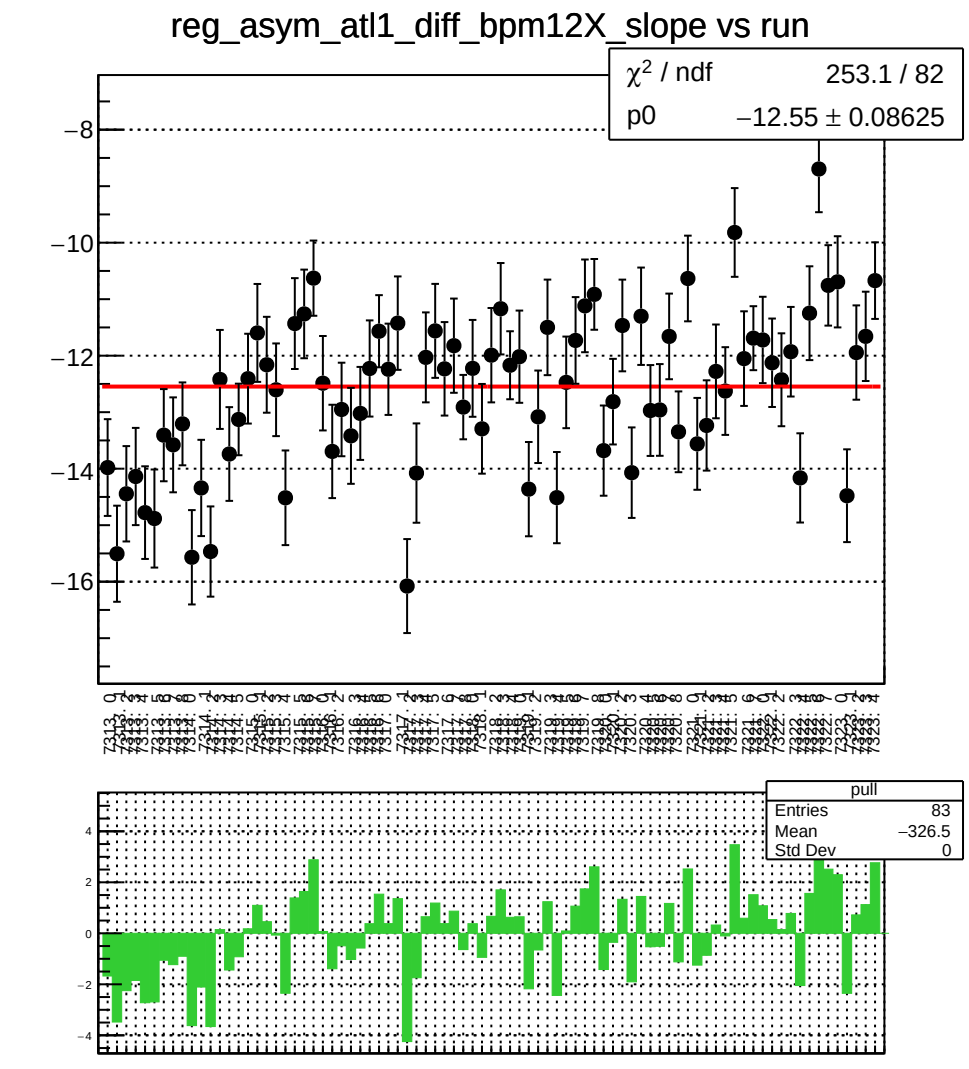

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 83.19 / 82
p0 4.781 ± 1.935
pull
Entries 83
Mean 712.8
Std Dev 0
pull1D
Entries 83
Mean 0.005067
Std Dev 1.001

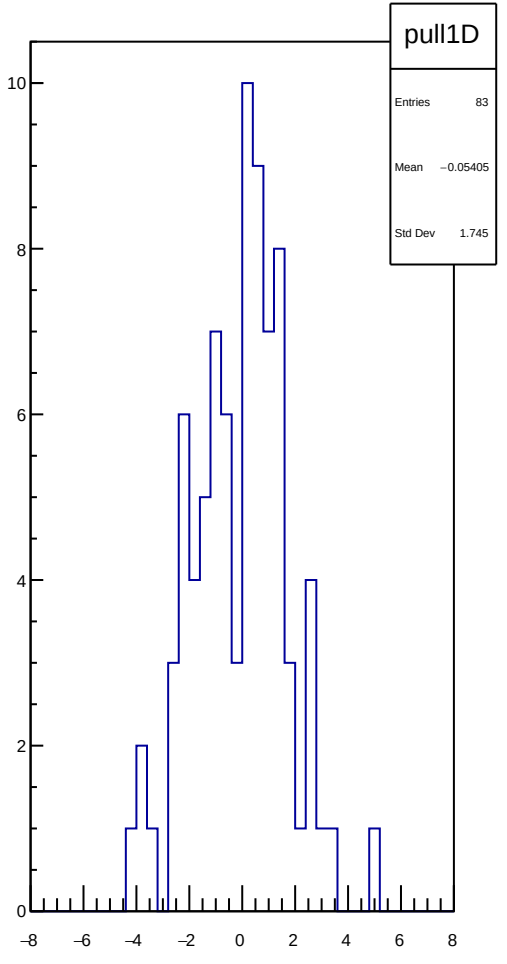

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 87.62 / 82
p0 31.82 ± 2.387
pull
Entries 83
Mean 151.5
Std Dev 0

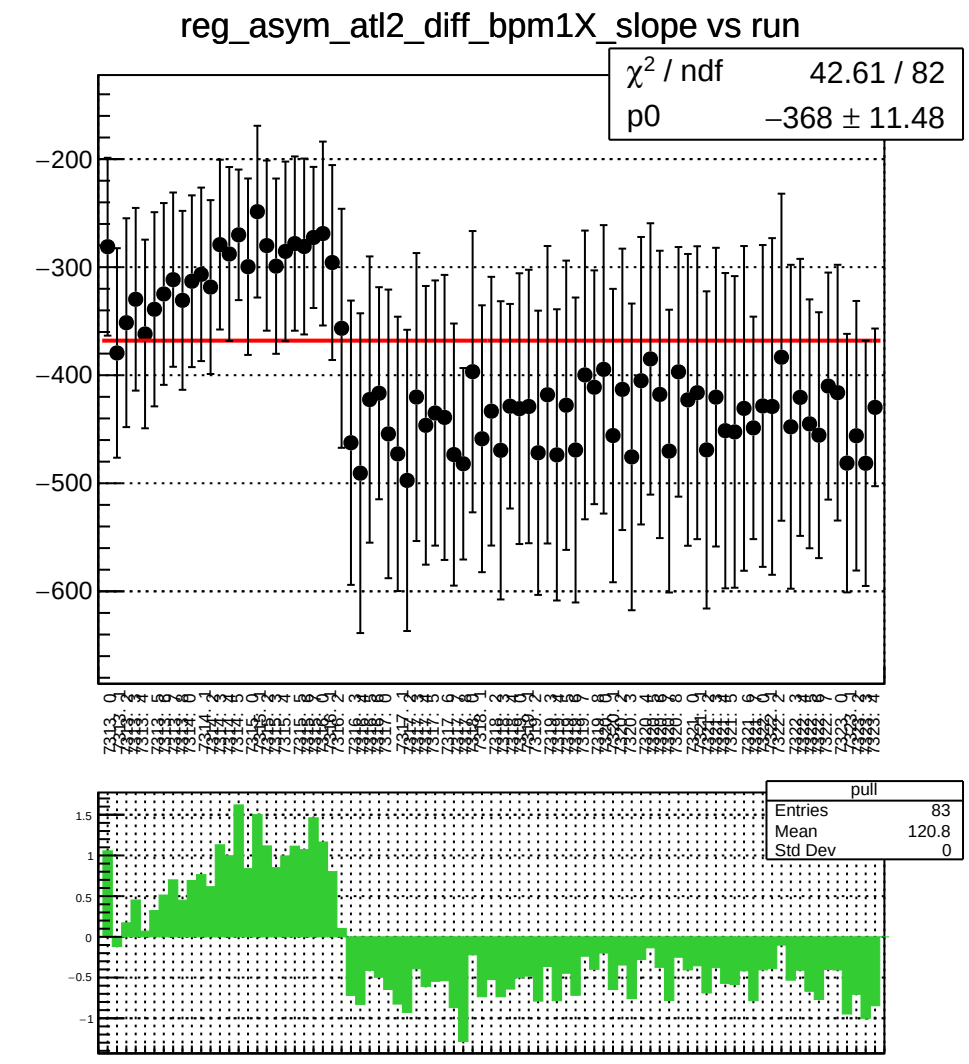

pull1D
Entries 83
Mean 0.1076
Std Dev 1.022

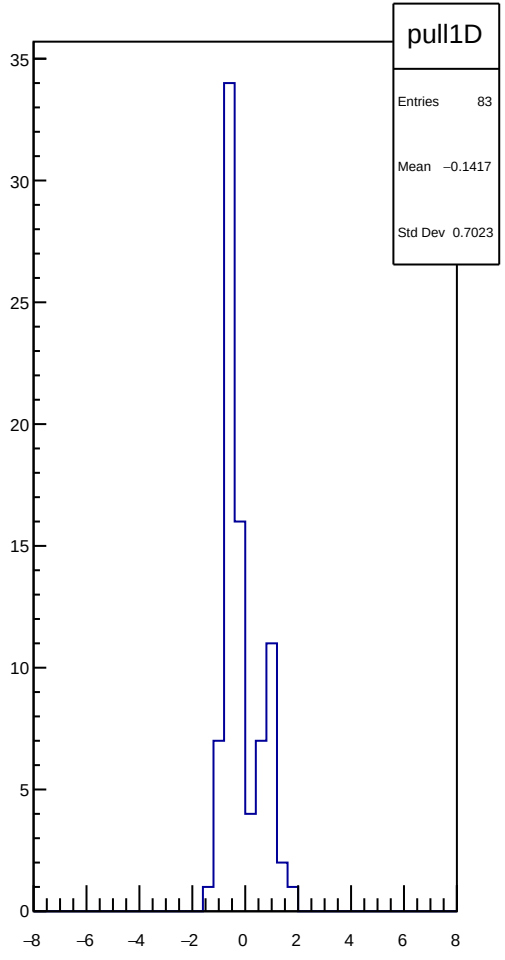

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 86.8 / 82
p0 −11.37 ± 2.094
pull
Entries 83
Mean 349
Std Dev 0

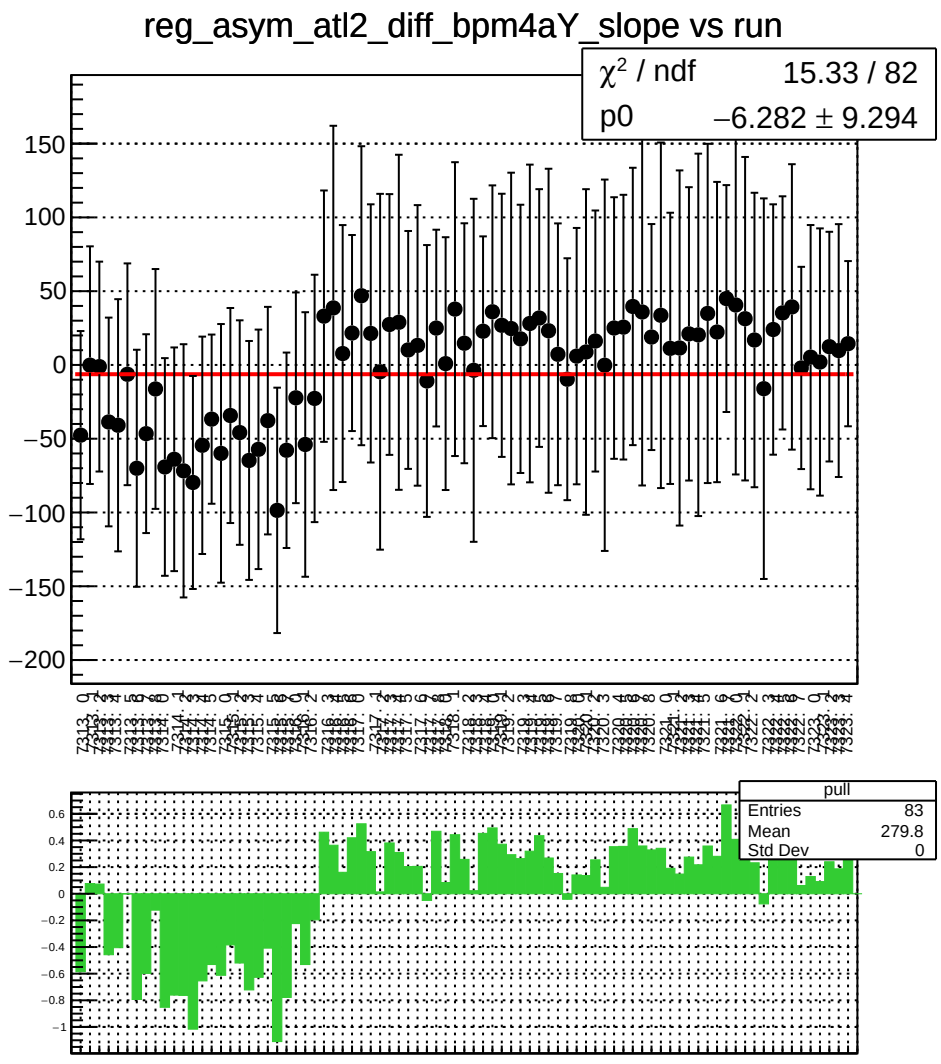

pull1D
Entries 83
Mean −0.01545
Std Dev 1.022

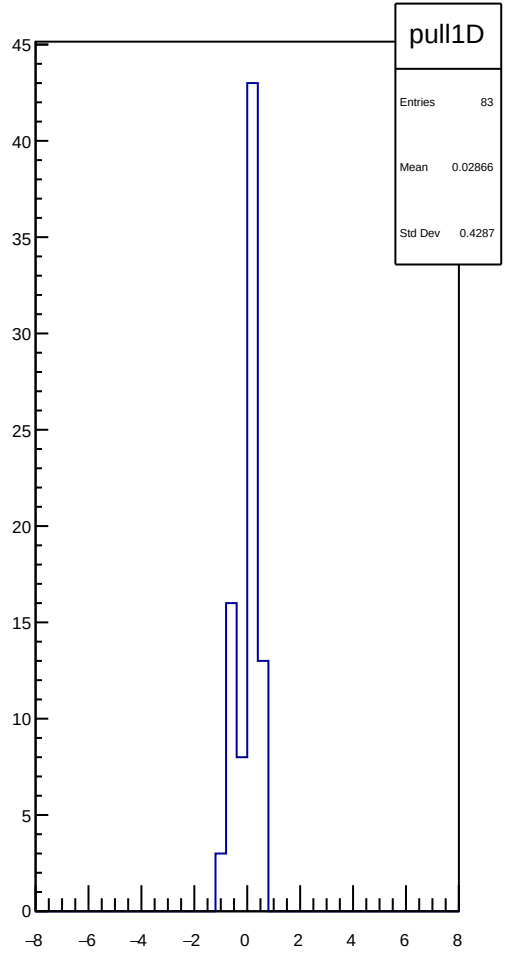

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 253.1 / 82
p0 −12.55 ± 0.08625
−8
−10
−12
−14
−16
pull
Entries 83
Mean −326.5
Std Dev 0
4
2
0
−2
−4

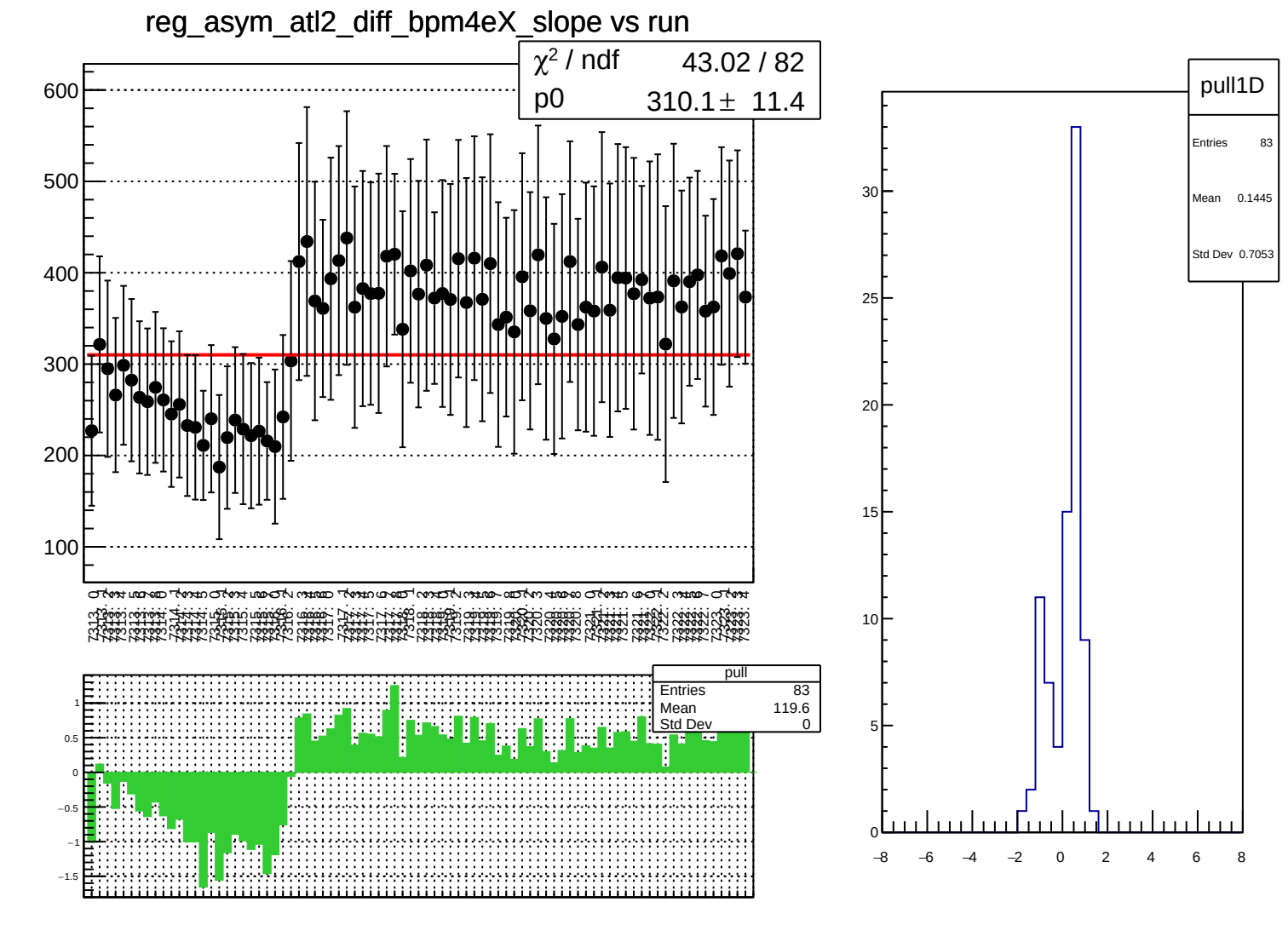

pull1D
Entries 83
Mean −0.05405
Std Dev 1.745
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

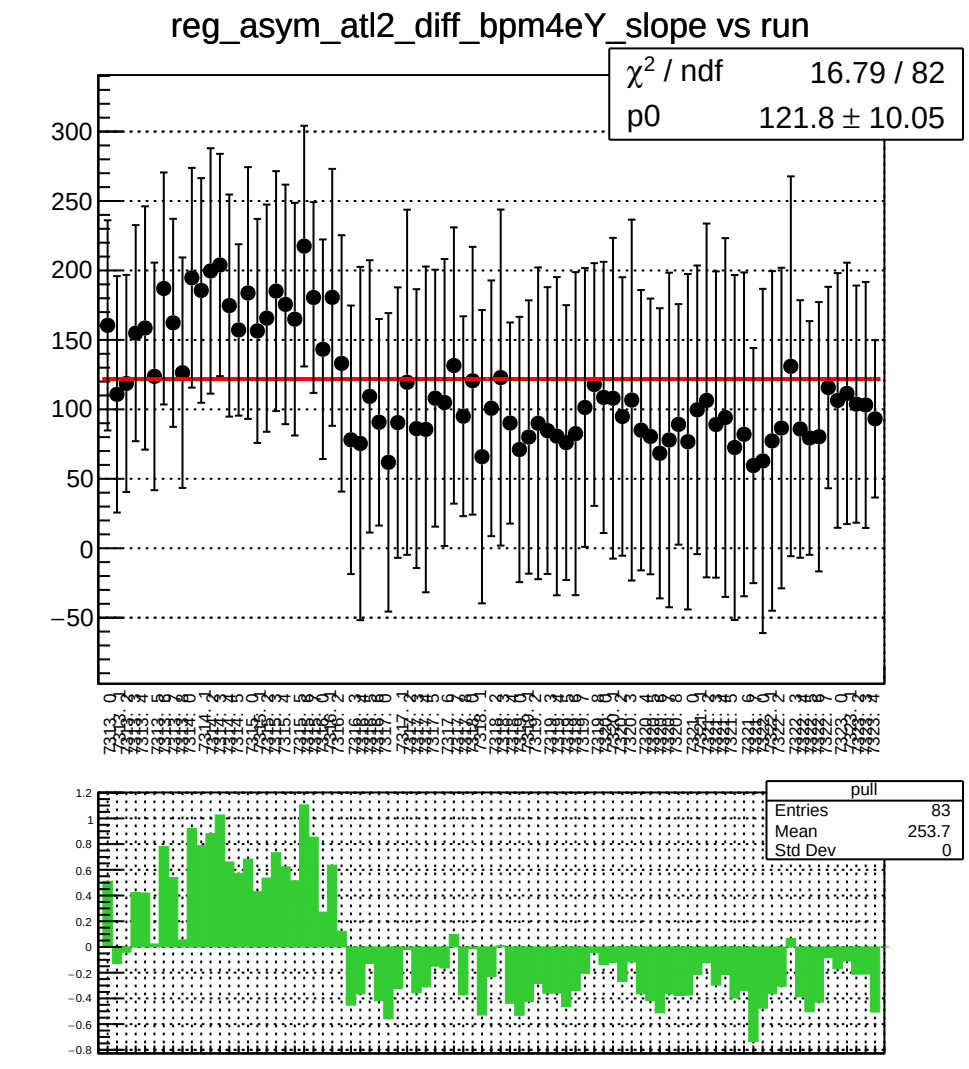

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 42.61 / 82
p0 −368 ± 11.48
−200
−300
−400
−500
−600
pull
Entries 83
Mean 120.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

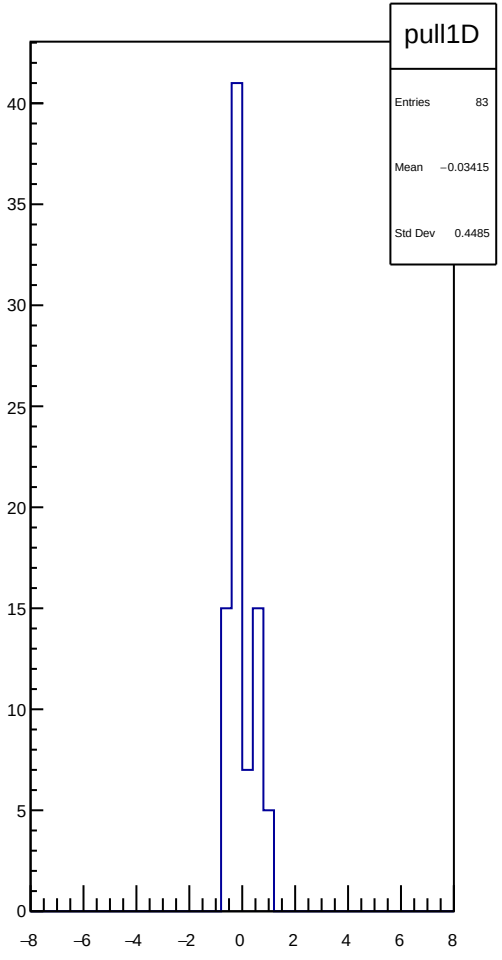

pull1D
Entries 83
Mean −0.1417
Std Dev 0.7023
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

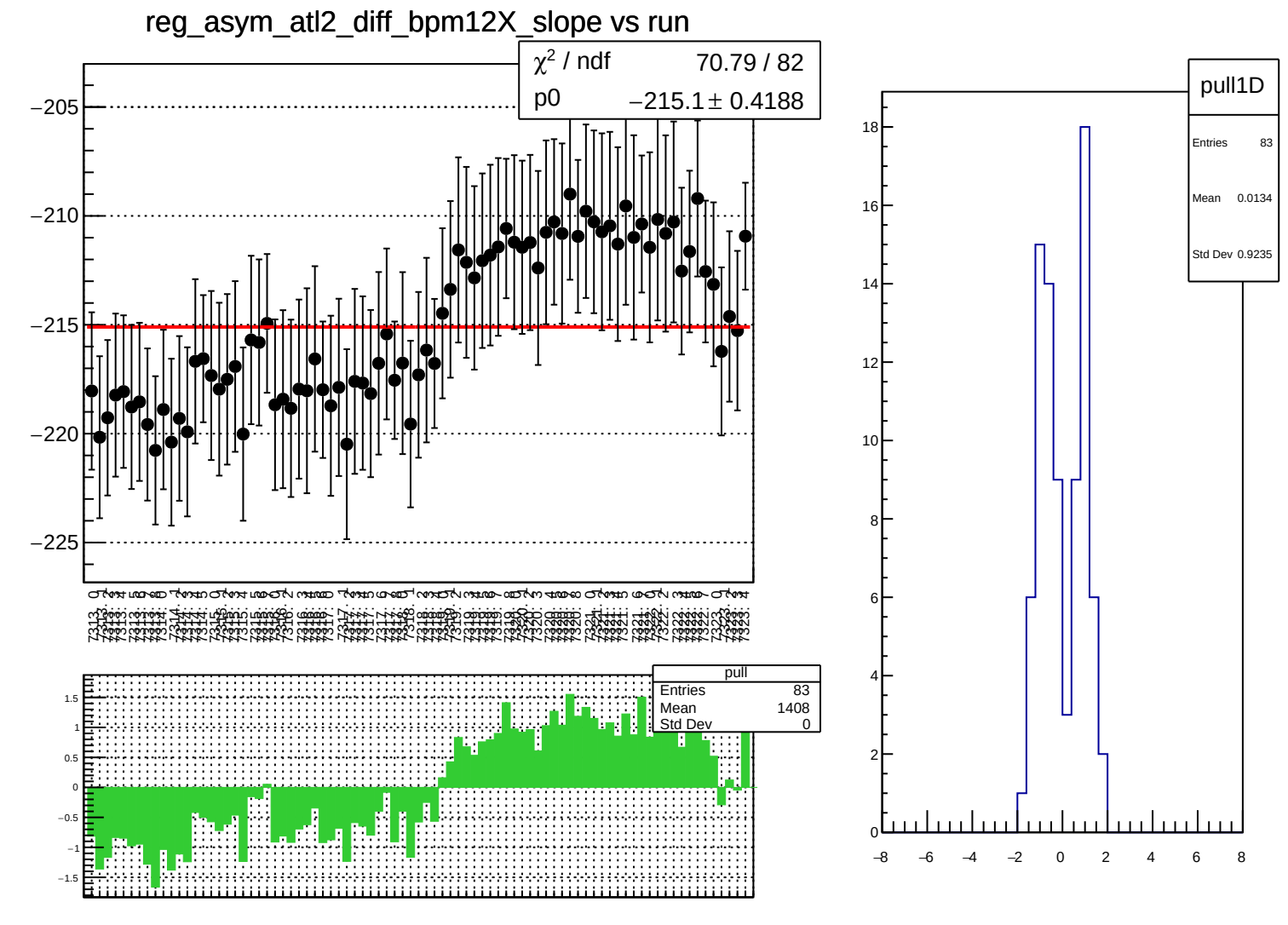

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 15.33 / 82
p0 −6.282 ± 9.294
pull
Entries 83
Mean 279.8
Std Dev 0

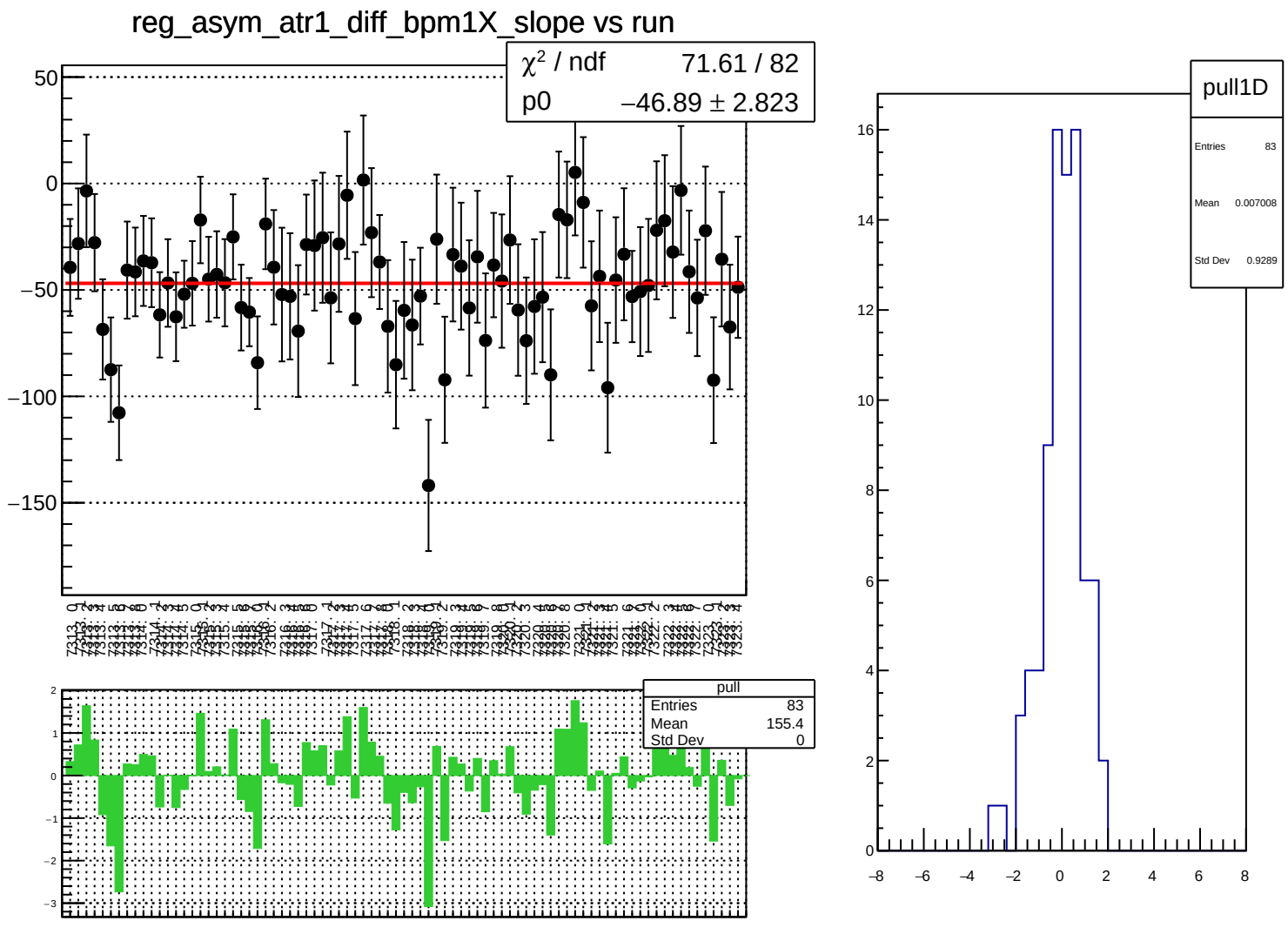

pull1D
Entries 83
Mean 0.02866
Std Dev 0.4287

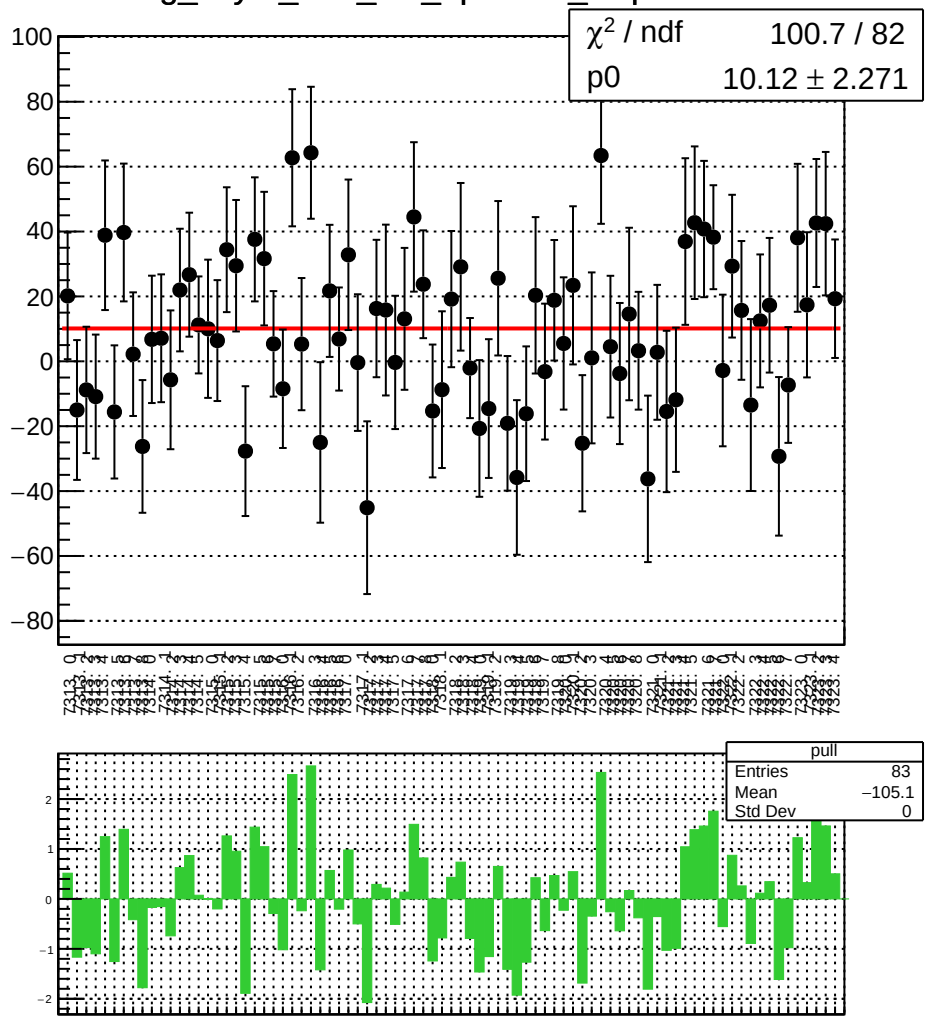

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 43.02 / 82
p0 310.1 ± 11.4
pull
Entries 83
Mean 119.6
Std Dev 0
pull1D
Entries 83
Mean 0.1445
Std Dev 0.7053

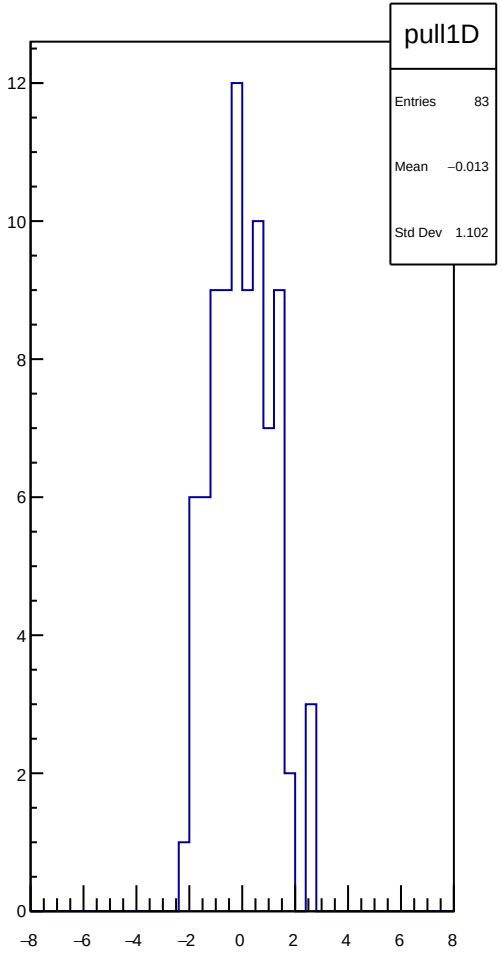

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 16.79 / 82
p0 121.8 ± 10.05
pull
Entries 83
Mean 253.7
Std Dev 0

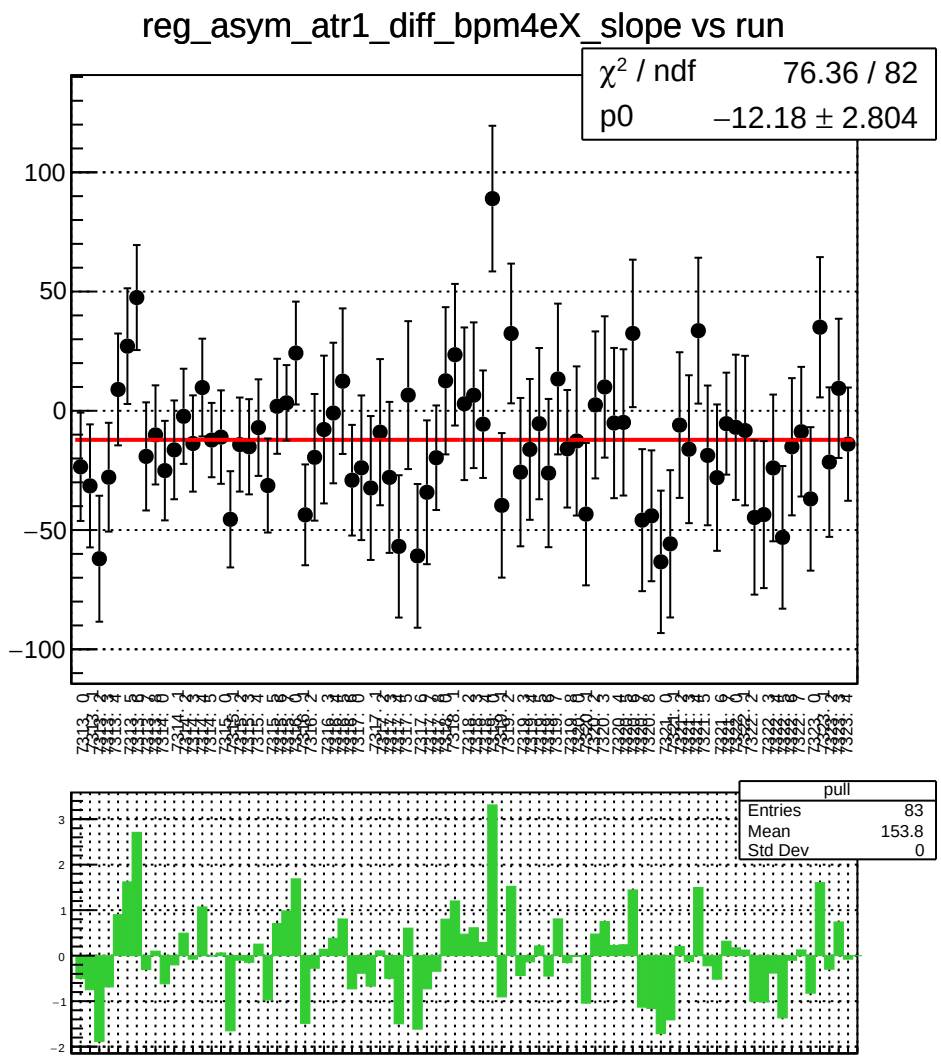

pull1D
Entries 83
Mean −0.03415
Std Dev 0.4485

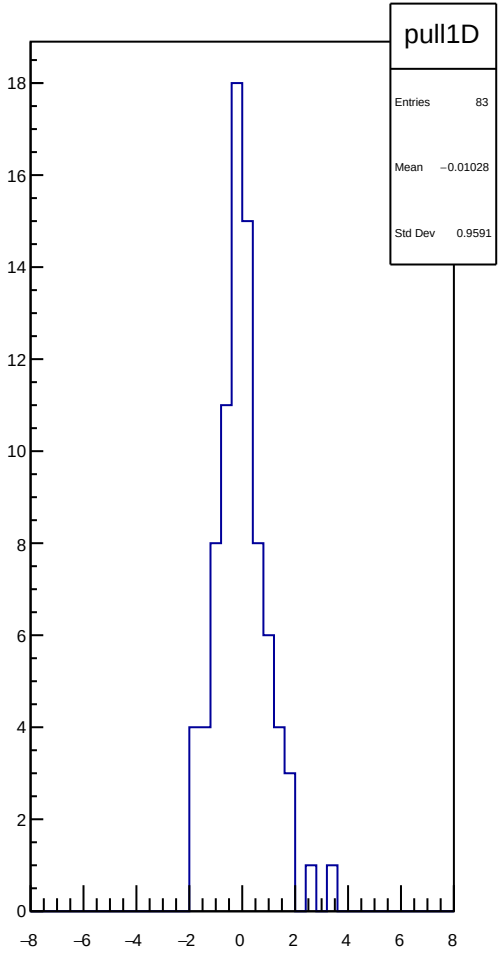

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 70.79 / 82
p0 −215.1 ± 0.4188
−205
−210
−215
−220
−225
pull
Entries 83
Mean 1408
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.0134
Std Dev 0.9235
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

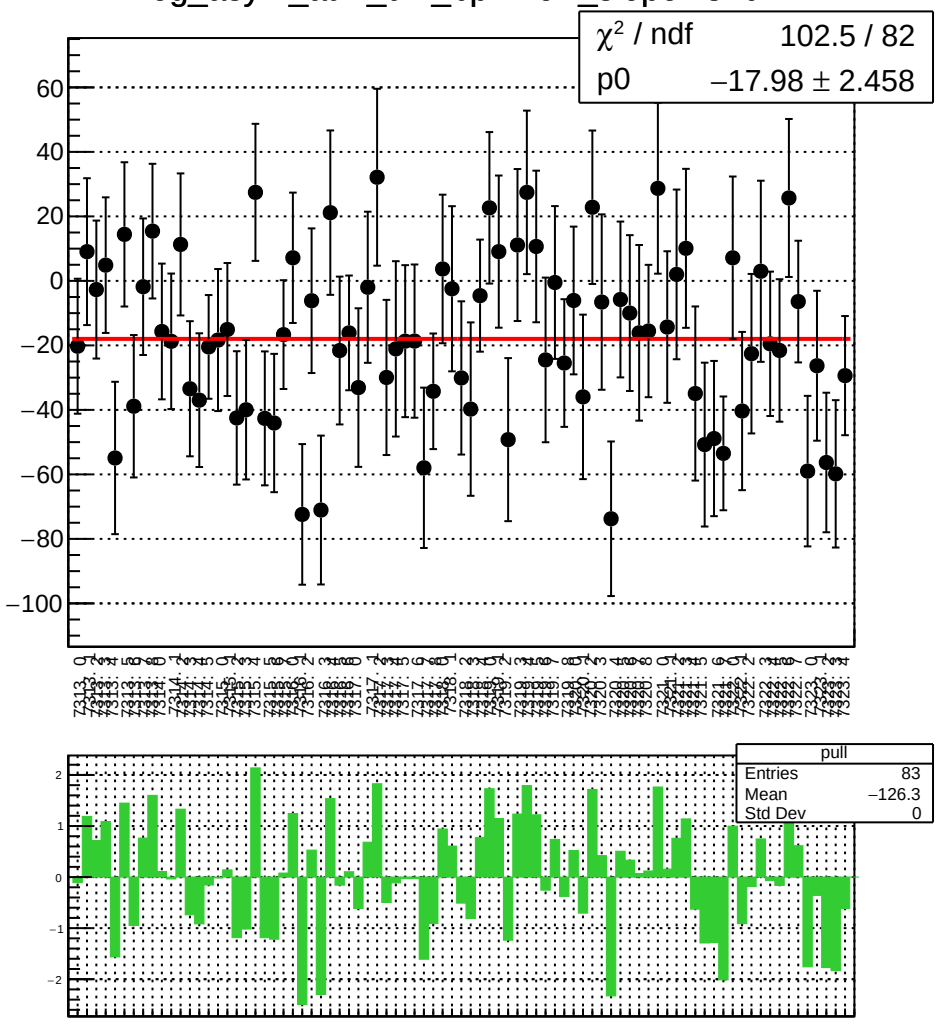

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 71.61 / 82
p0 −46.89 ± 2.823
50
0
−50
−100
−150
pull
Entries 83
Mean 155.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean 0.007008
Std Dev 0.9289
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

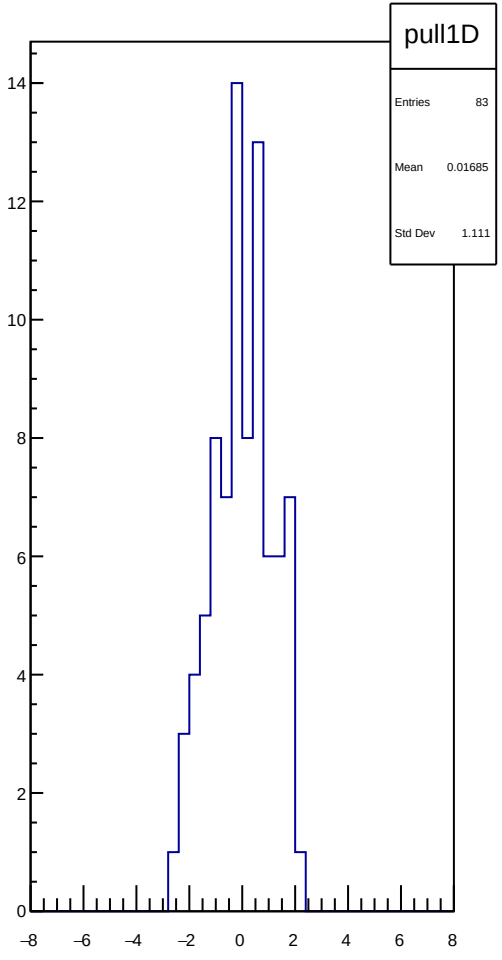

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 100.7 / 82
p0 10.12 ± 2.271
pull
Entries 83
Mean −105.1
Std Dev 0

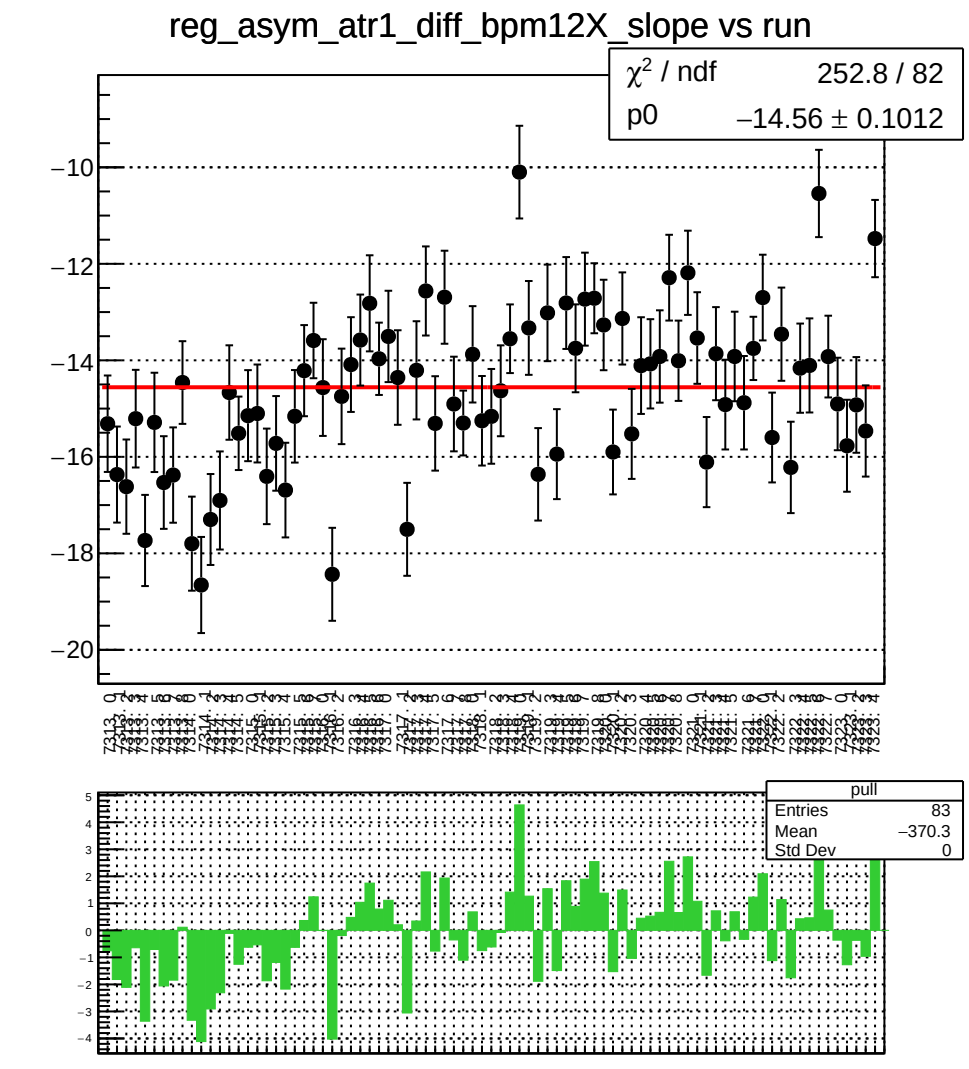

pull1D
Entries 83
Mean −0.013
Std Dev 1.102

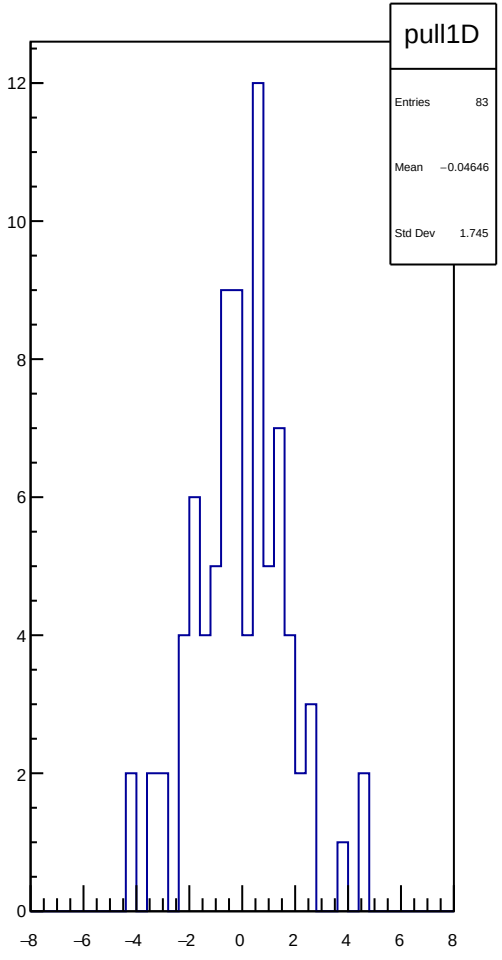

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 76.36 / 82
p0 −12.18 ± 2.804
pull
Entries 83
Mean 153.8
Std Dev 0

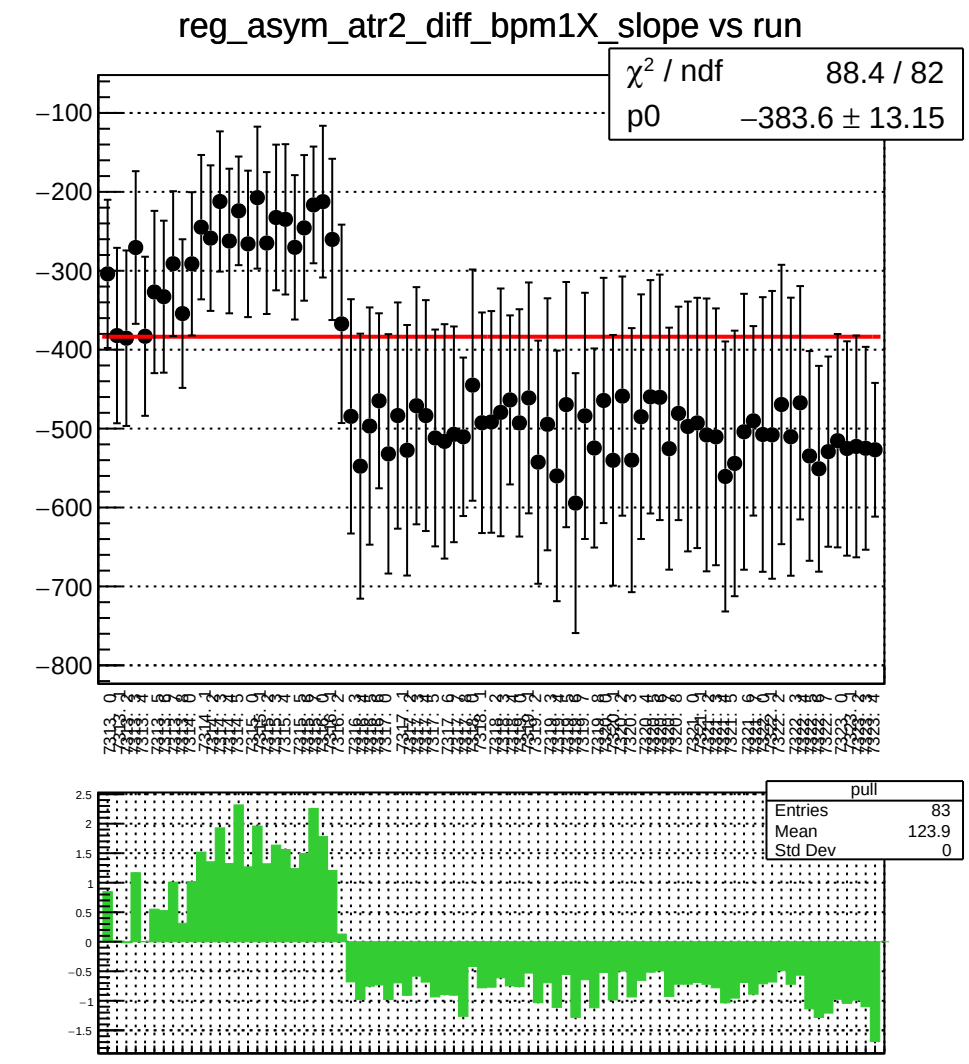

pull1D
Entries 83
Mean −0.01028
Std Dev 0.9591

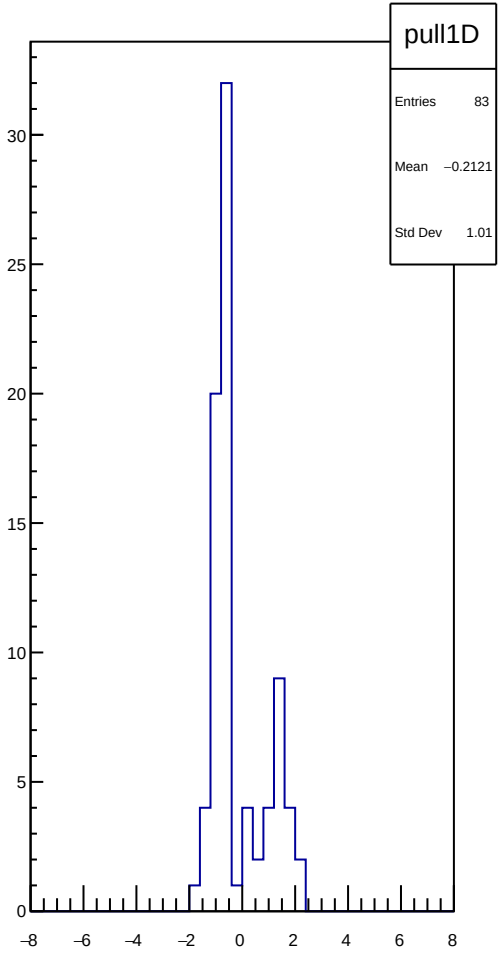

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 102.5 / 82
p0 −17.98 ± 2.458
pull
Entries 83
Mean −126.3
Std Dev 0

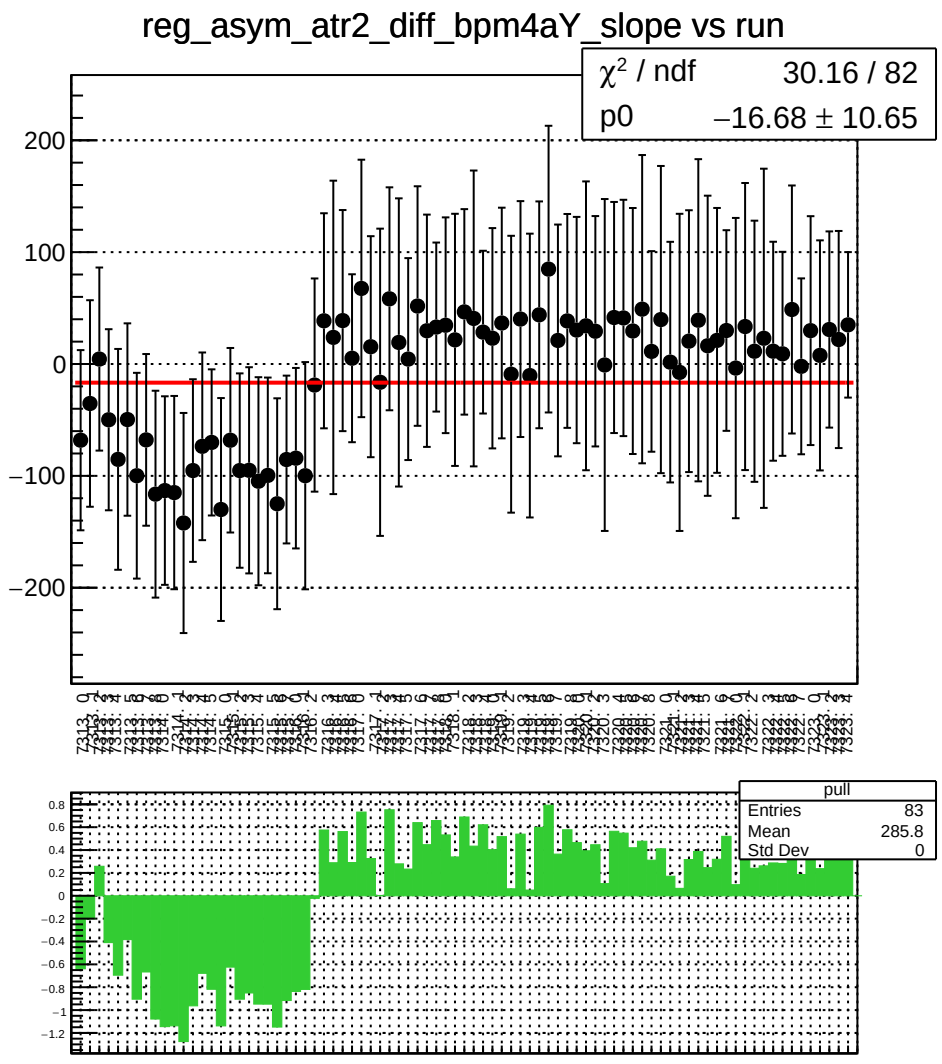

pull1D
Entries 83
Mean 0.01685
Std Dev 1.111

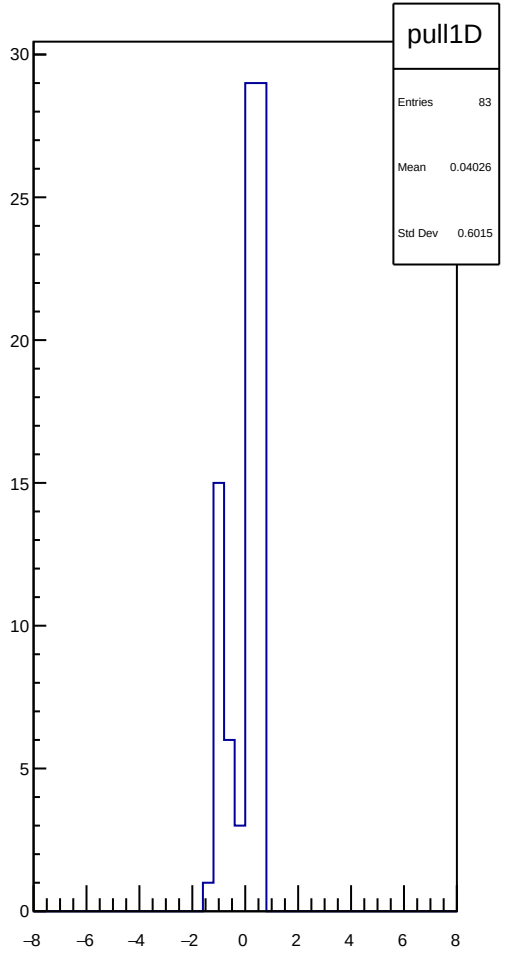

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 252.8 / 82
p0 −14.56 ± 0.1012
pull
Entries 83
Mean −370.3
Std Dev 0

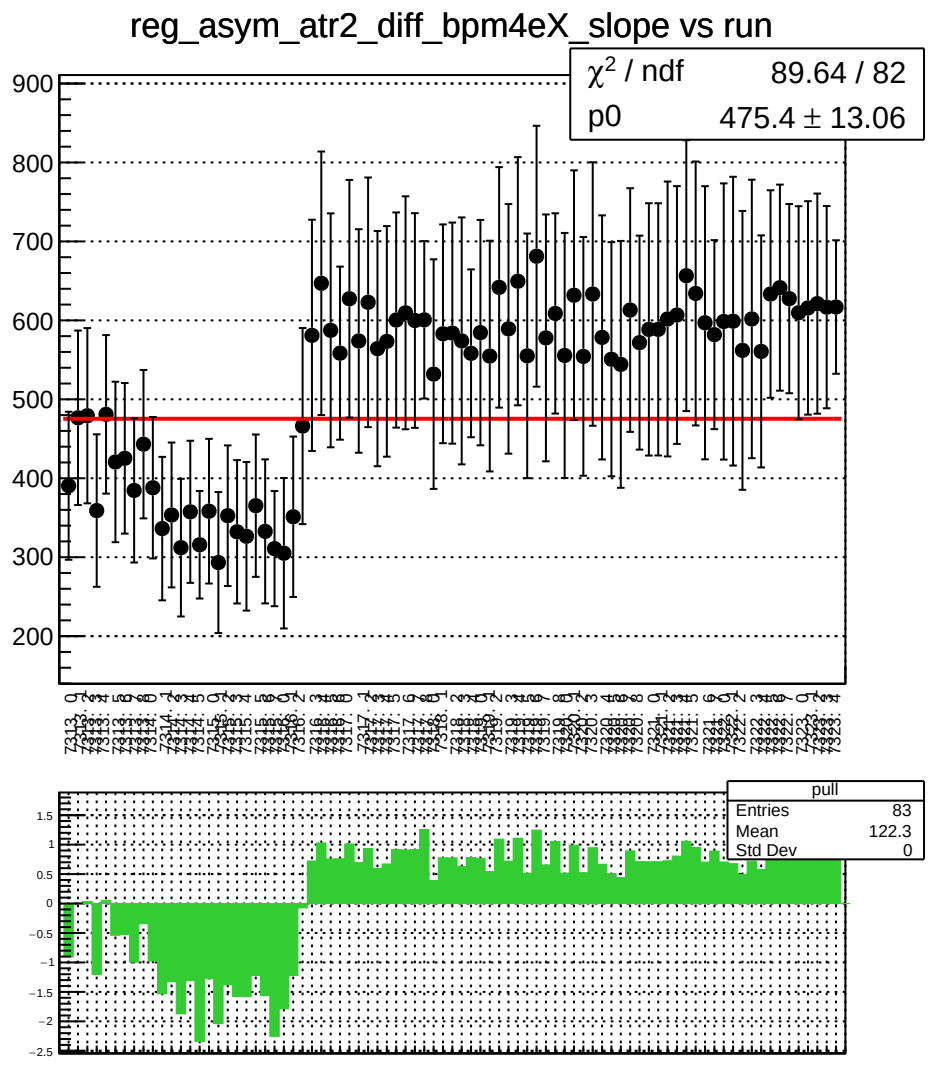

pull1D
Entries 83
Mean −0.04646
Std Dev 1.745

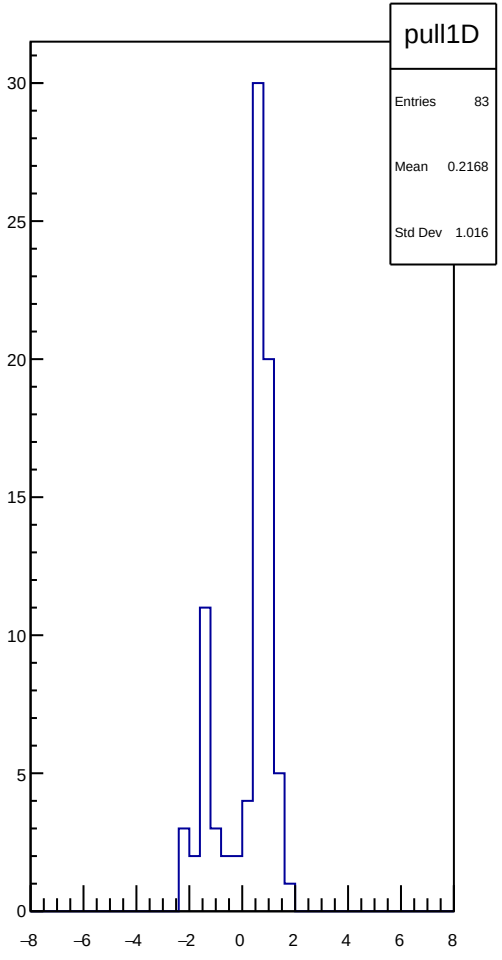

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 88.4 / 82
p0 −383.6 ± 13.15
pull
Entries 83
Mean 123.9
Std Dev 0

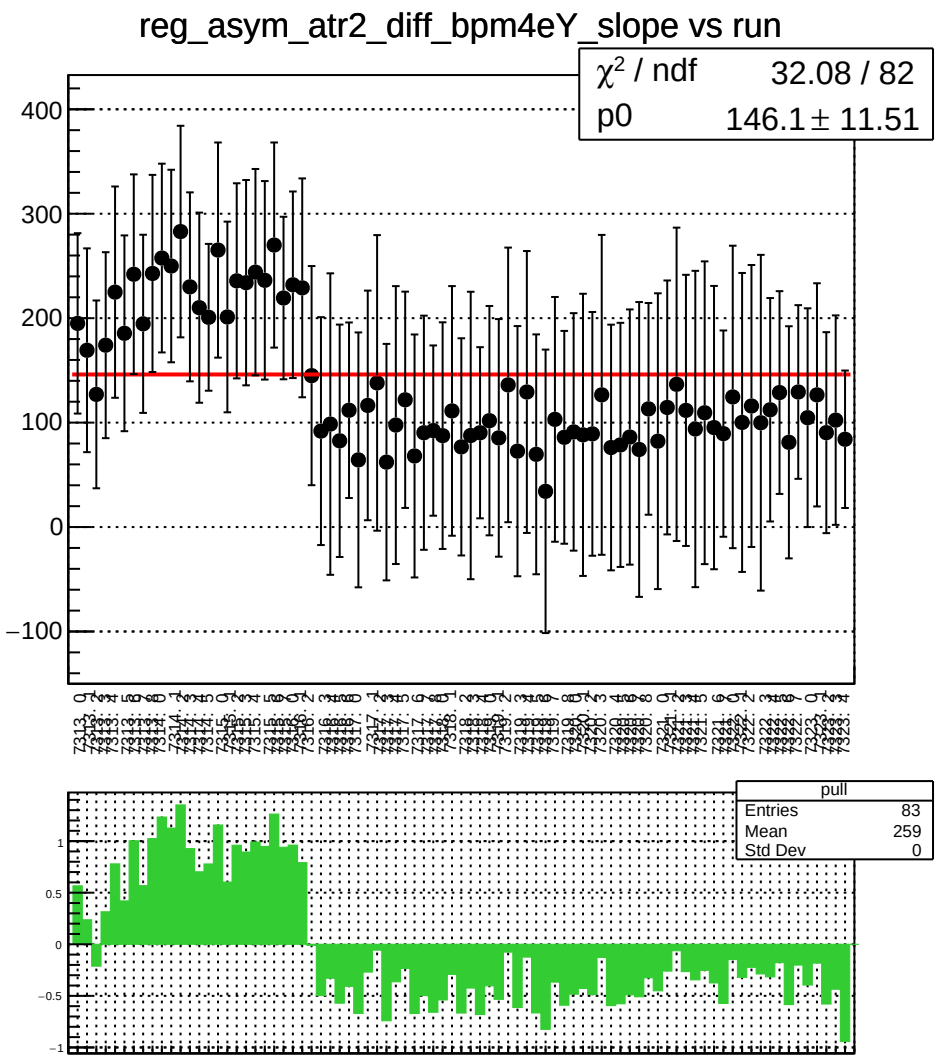

pull1D
Entries 83
Mean −0.2121
Std Dev 1.01

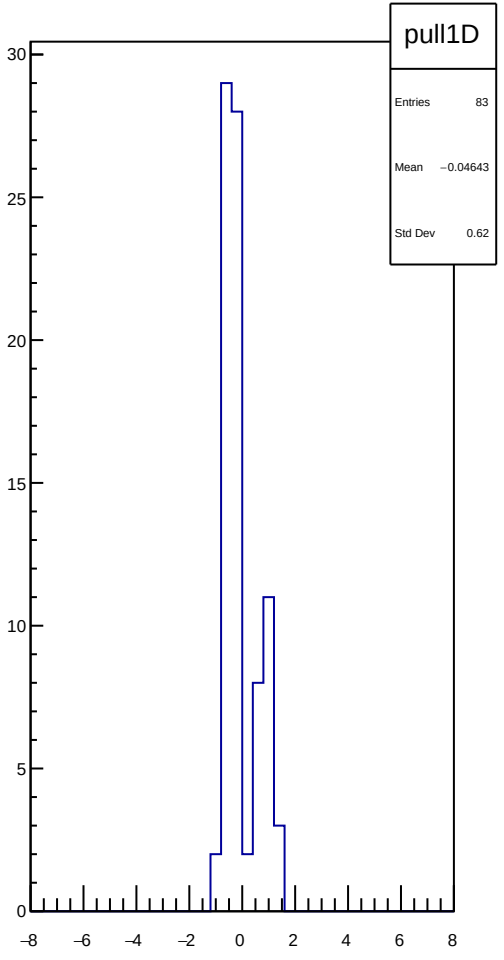

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 30.16 / 82
p0 −16.68 ± 10.65
200
100
0
−100
−200
pull
Entries 83
Mean 285.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

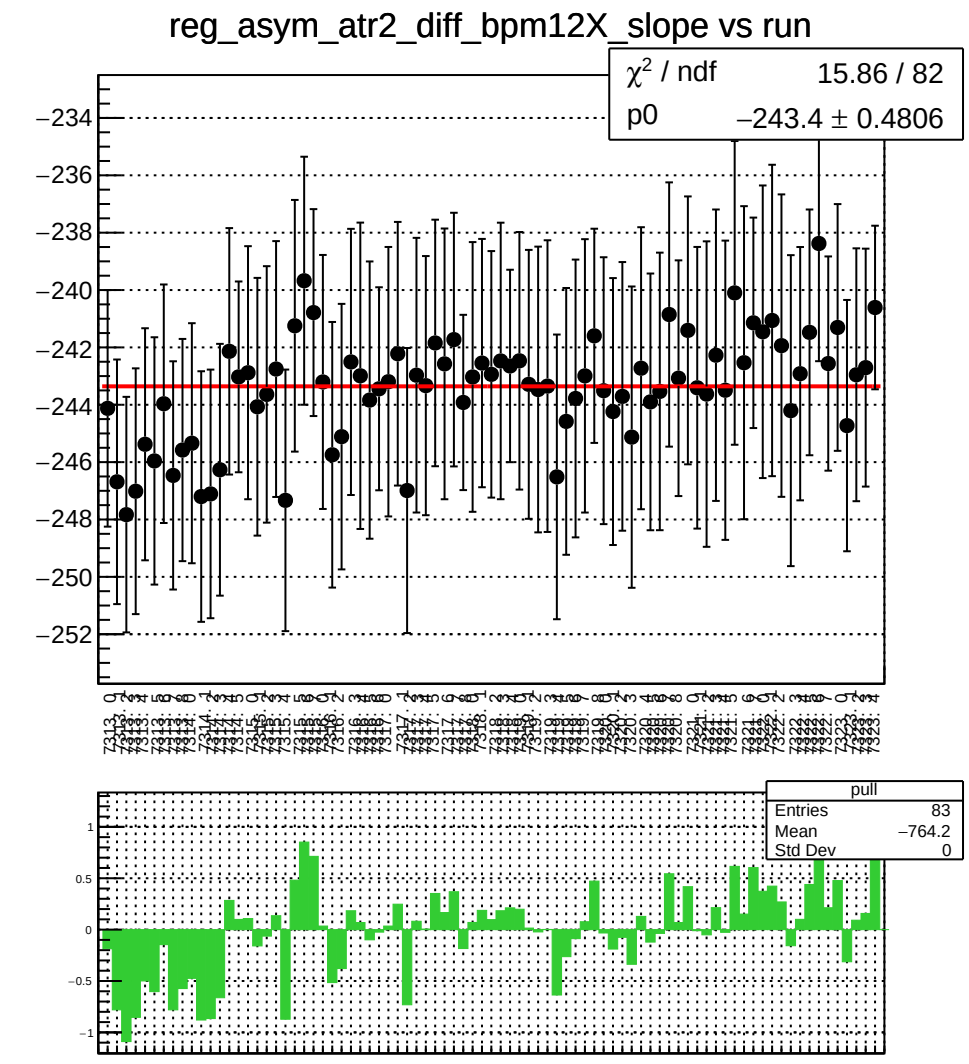

pull1D
Entries 83
Mean 0.04026
Std Dev 0.6015
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

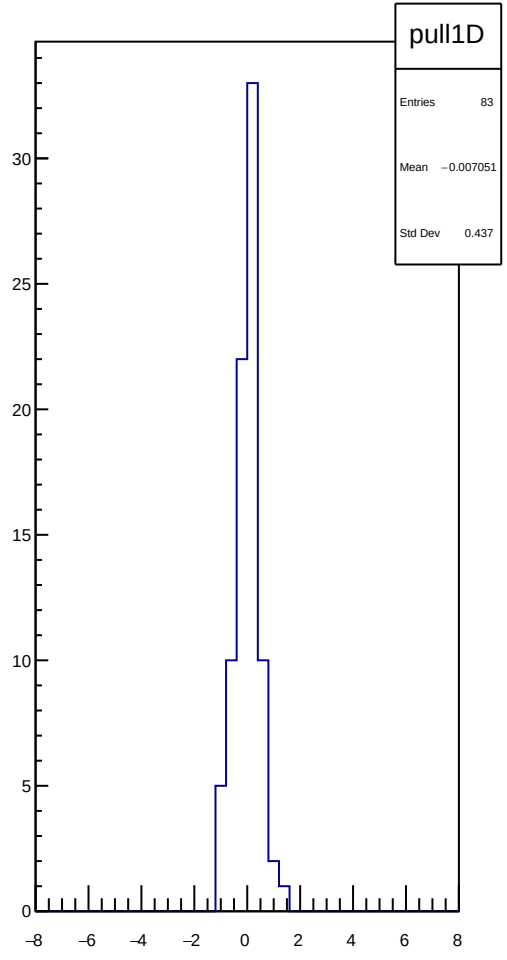

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 89.64 / 82
p0 475.4 ± 13.06
pull
Entries 83
Mean 122.3
Std Dev 0

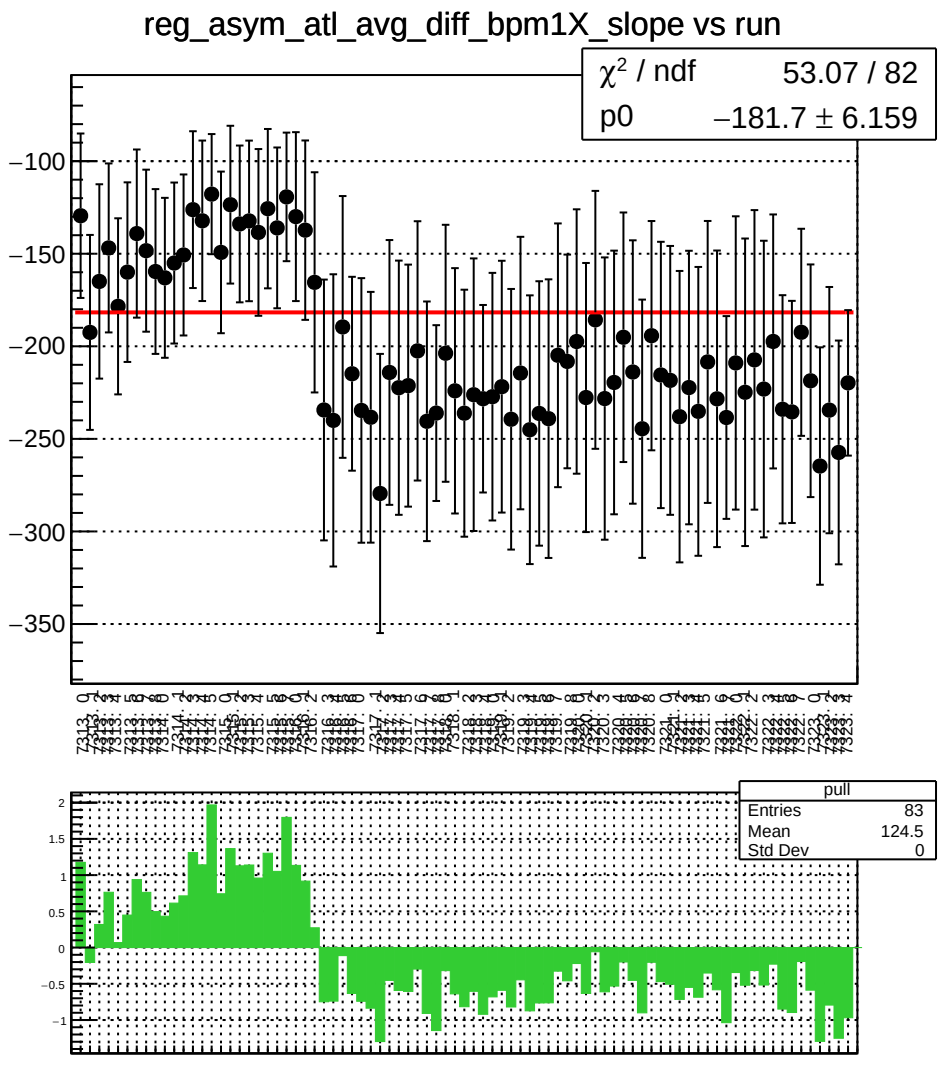

pull1D
Entries 83
Mean 0.2168
Std Dev 1.016

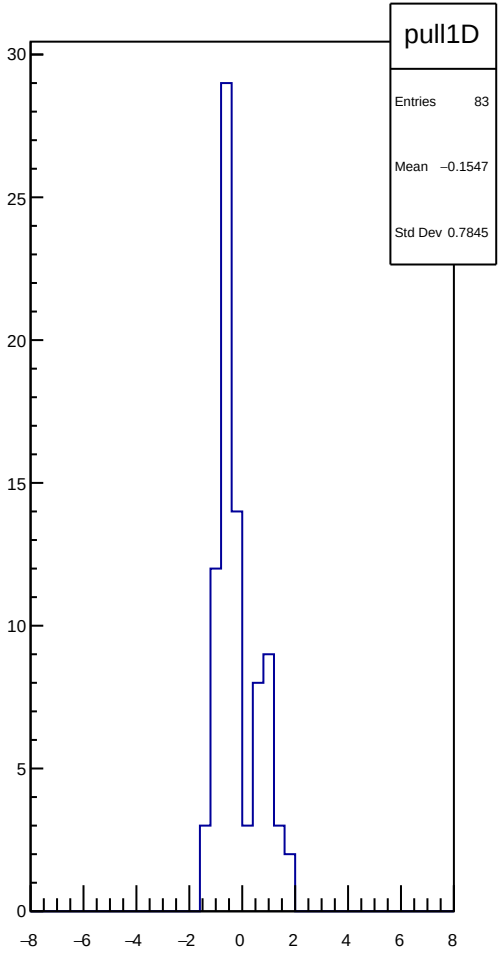

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 32.08 / 82
p0 146.1 ± 11.51
pull
Entries 83
Mean 259
Std Dev 0

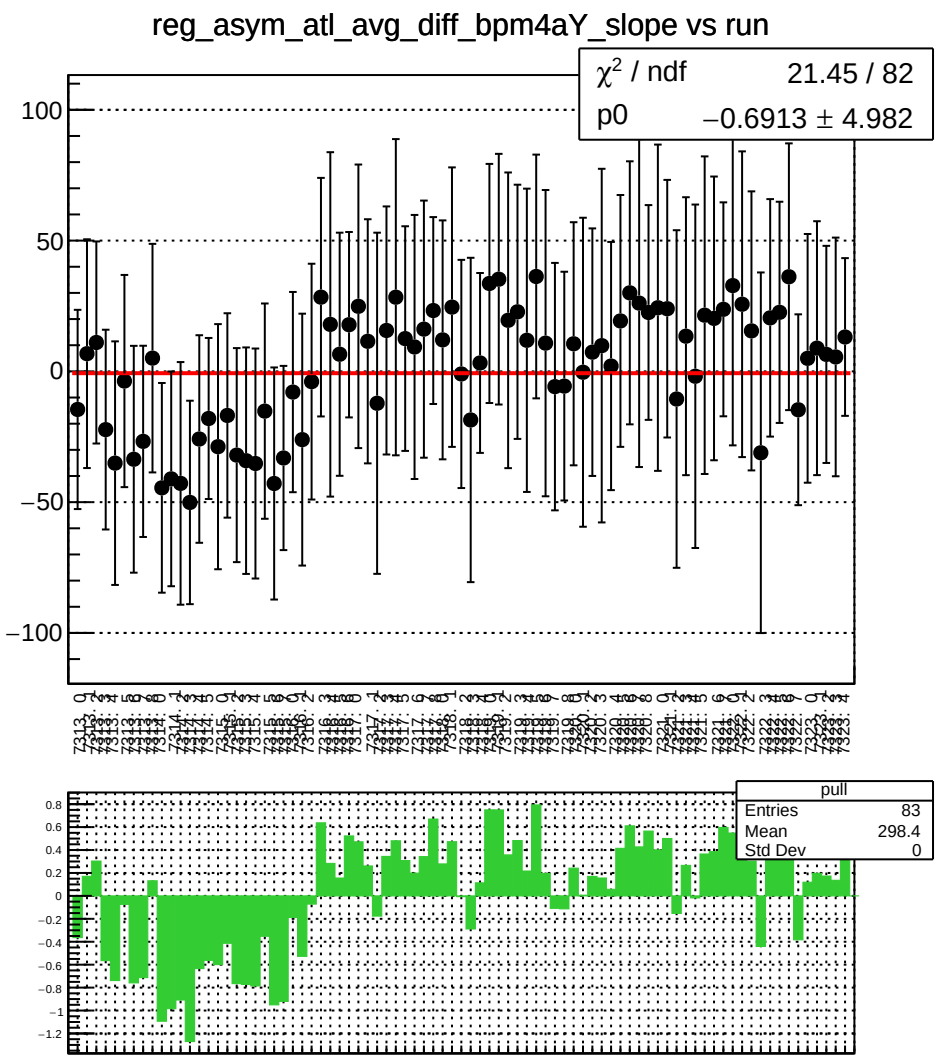

pull1D
Entries 83
Mean −0.04643
Std Dev 0.62

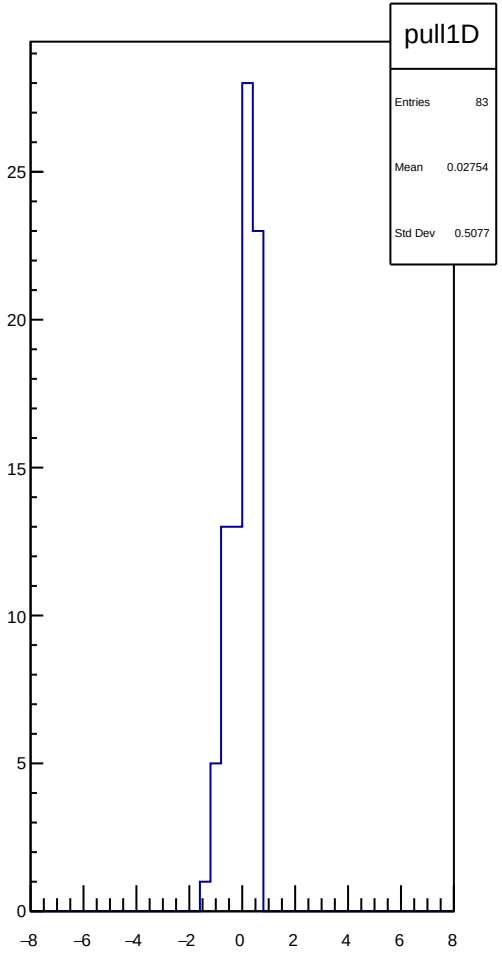

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 15.86 / 82
p0 −243.4 ± 0.4806
pull
Entries 83
Mean −764.2
Std Dev 0

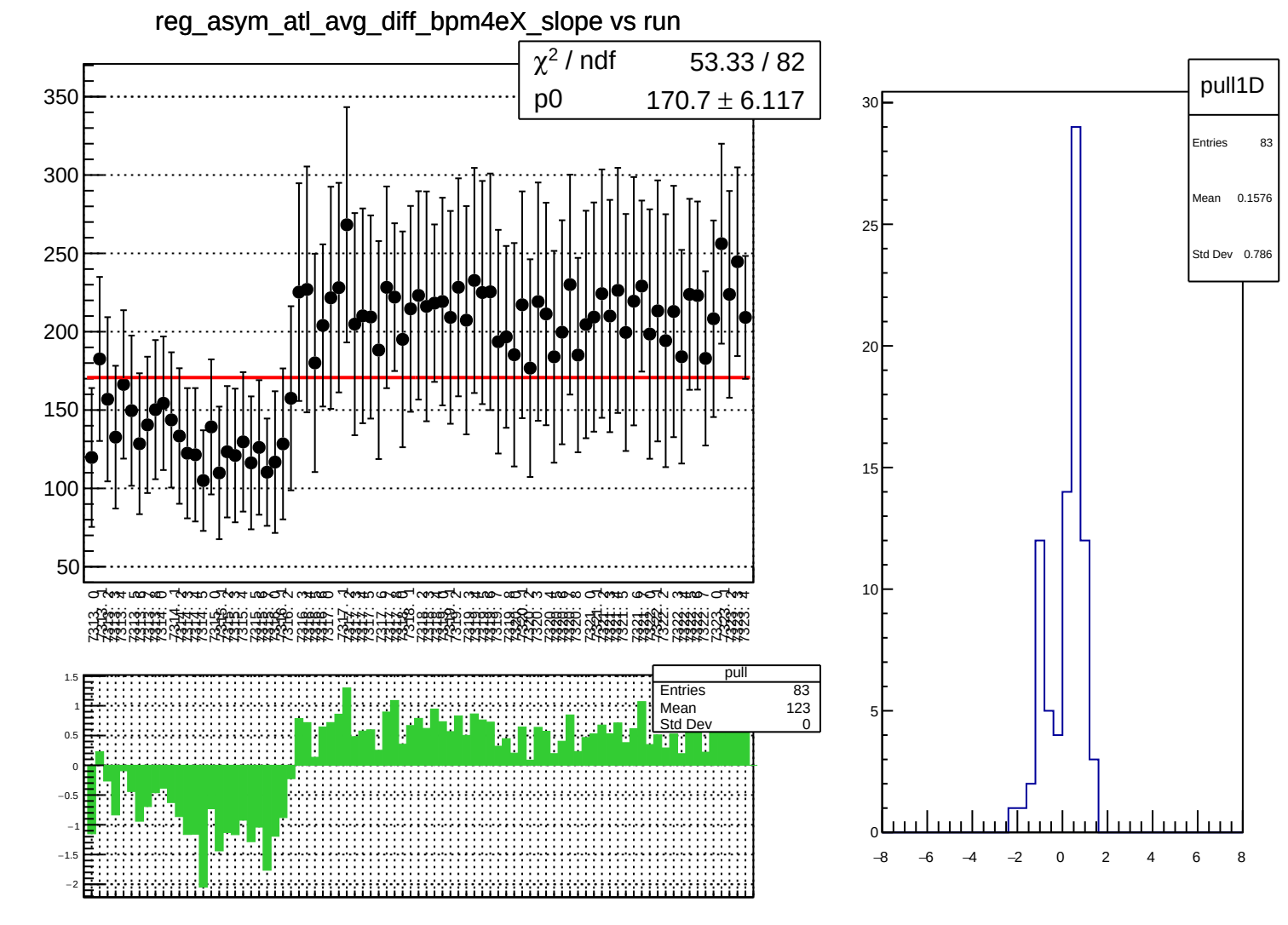

pull1D
Entries 83
Mean −0.007051
Std Dev 0.437

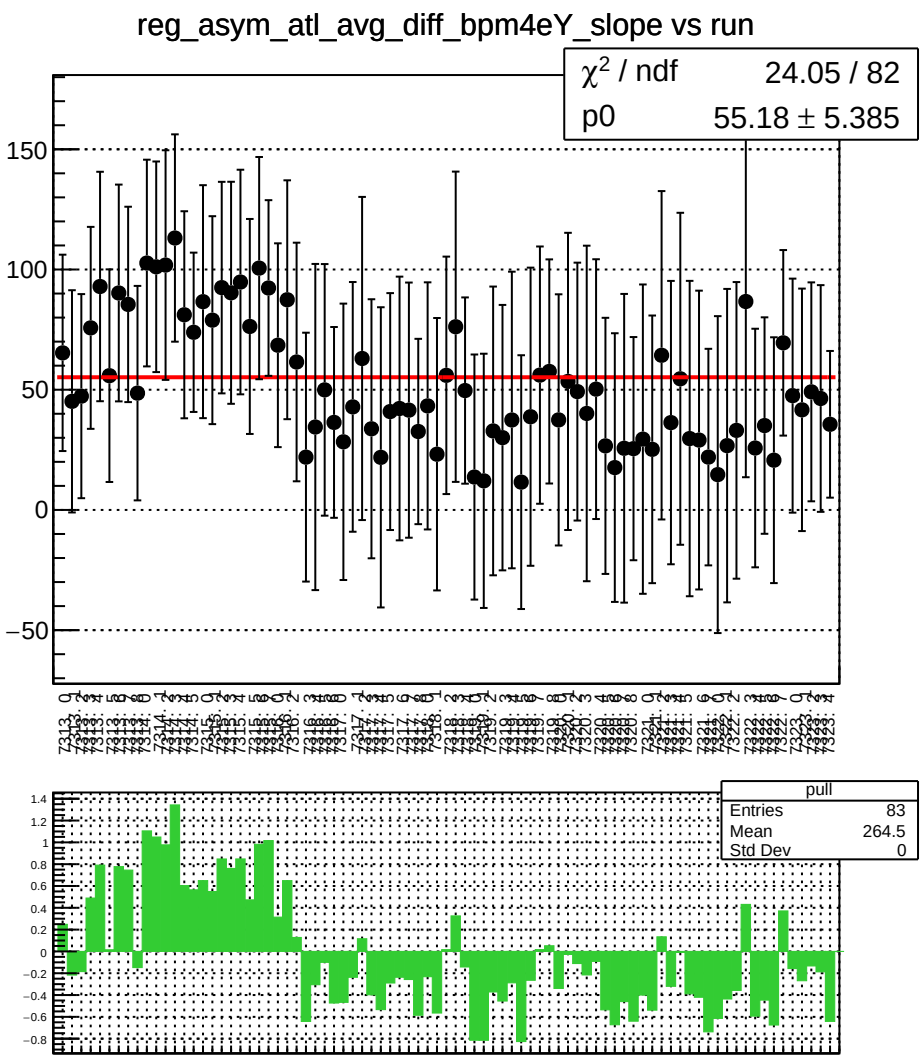

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 53.07 / 82
p0 −181.7 ± 6.159
pull
Entries 83
Mean 124.5
Std Dev 0

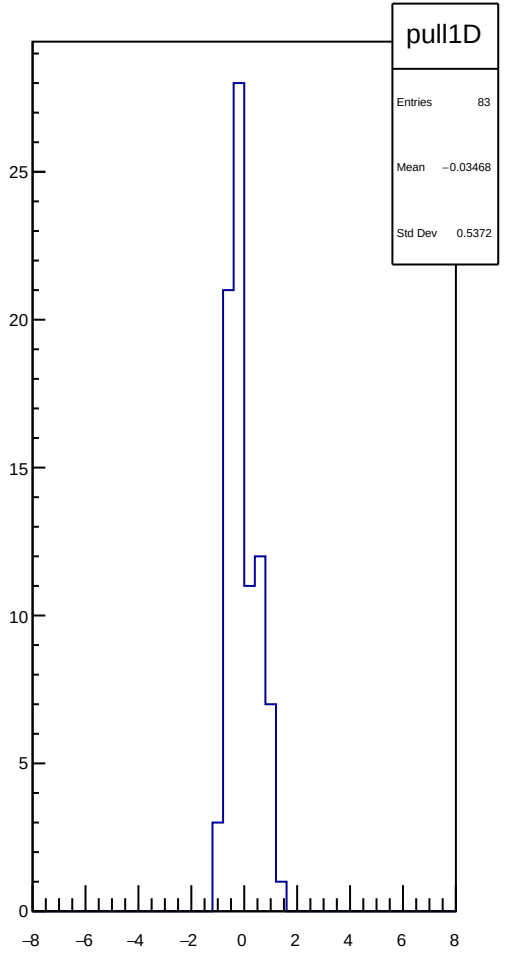

pull1D
Entries 83
Mean −0.1547
Std Dev 0.7845

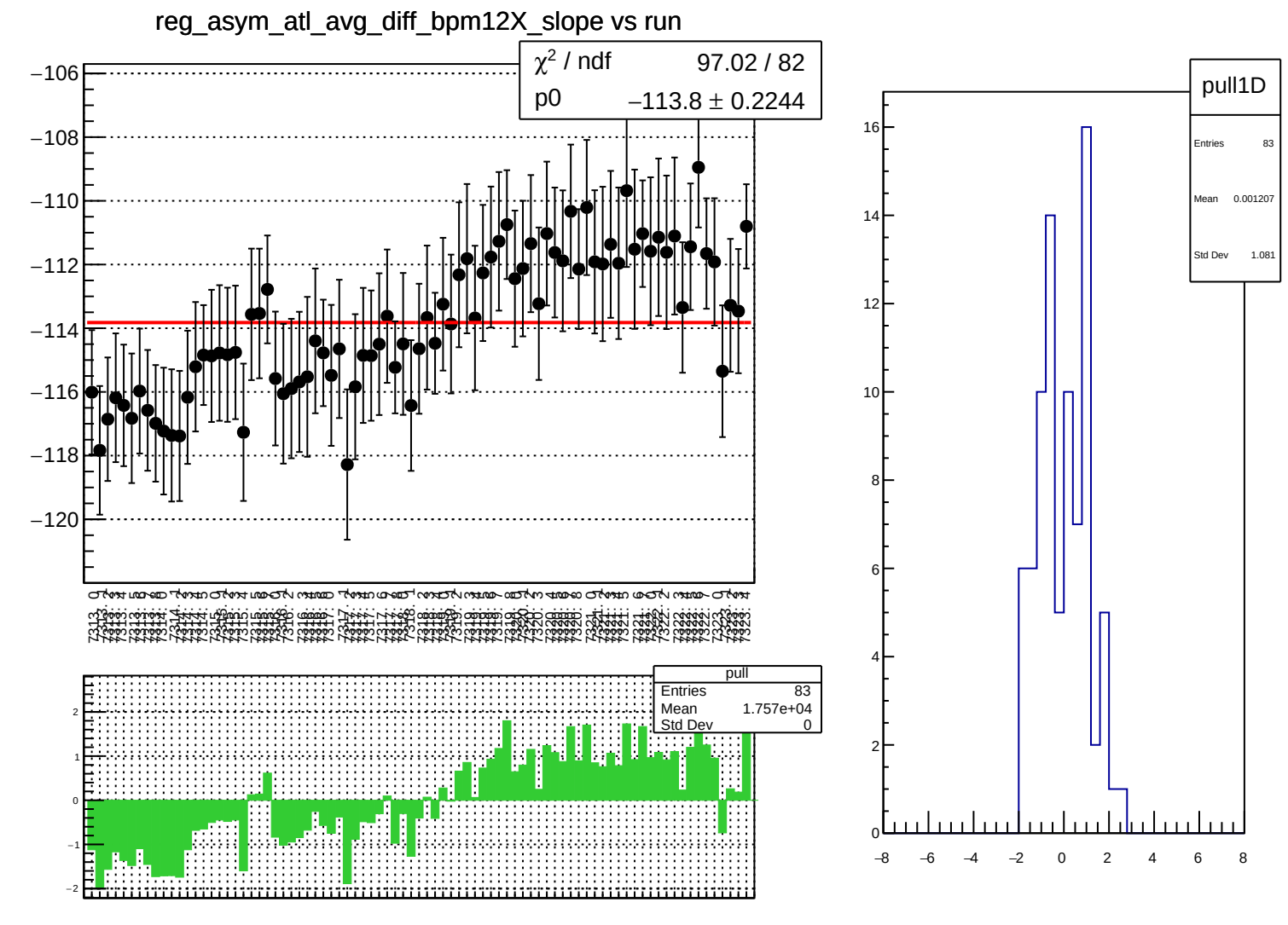

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.45 / 82
p0 −0.6913 ± 4.982
pull
Entries 83
Mean 298.4
Std Dev 0

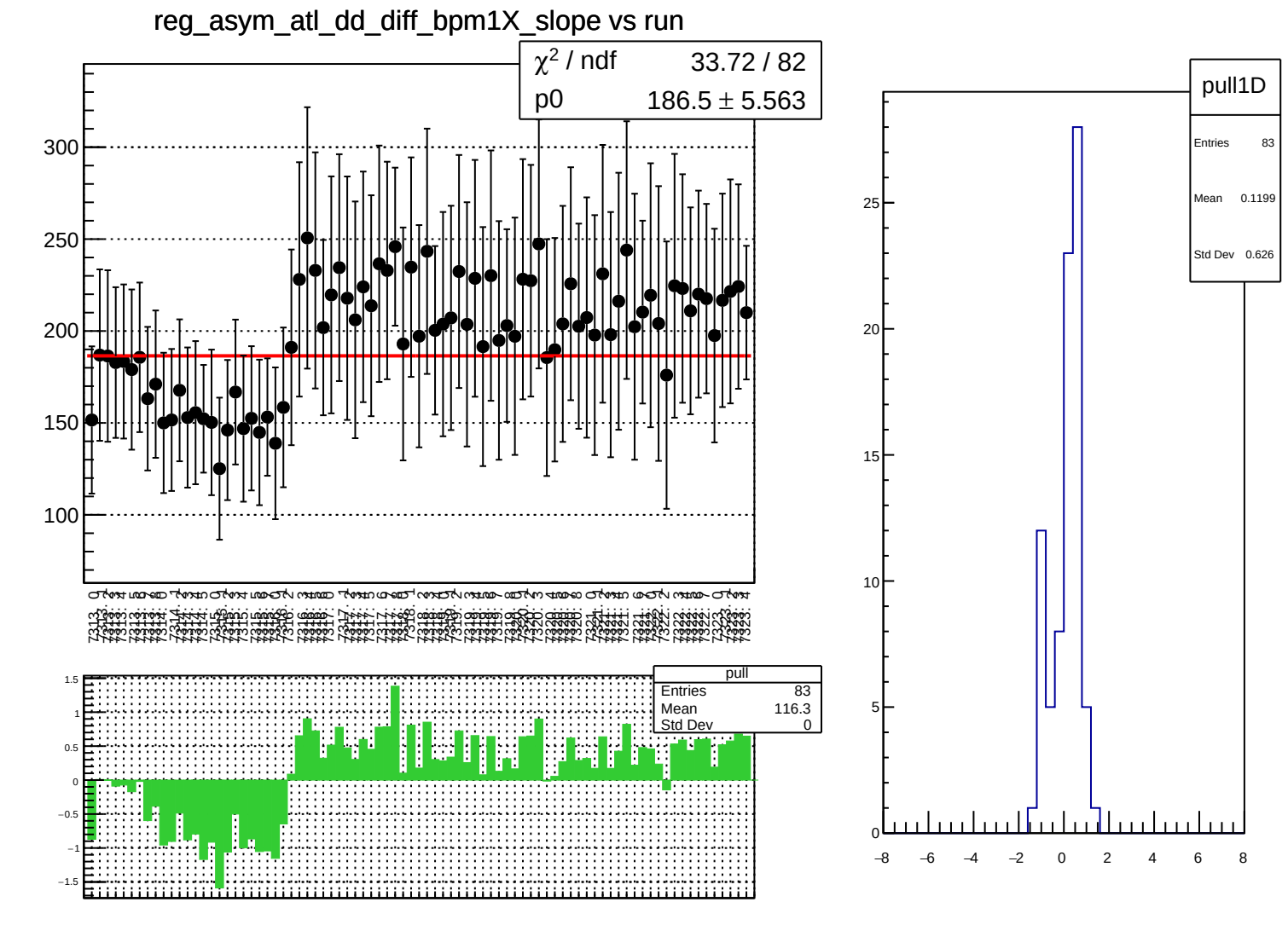

pull1D
Entries 83
Mean 0.02754
Std Dev 0.5077

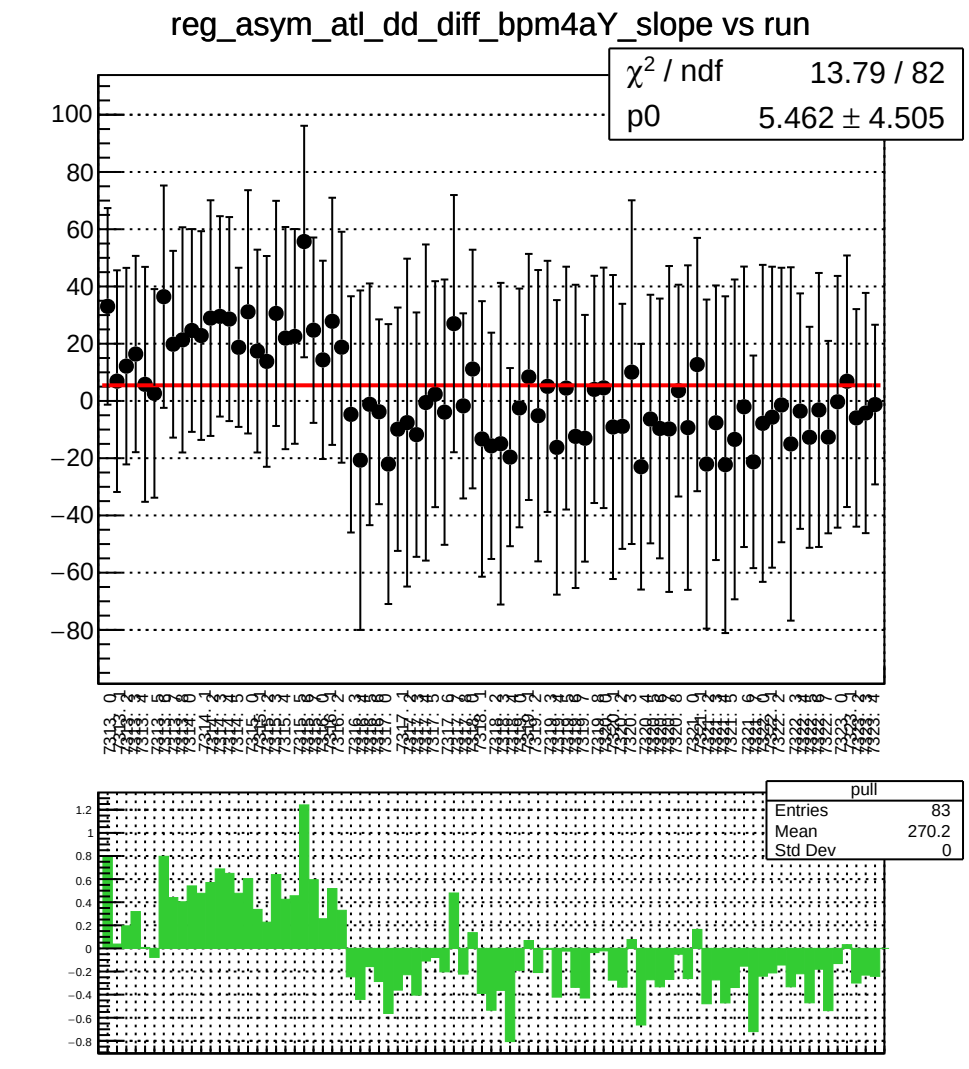

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.33 / 82
p0 170.7 ± 6.117
pull
Entries 83
Mean 123
Std Dev 0
pull1D
Entries 83
Mean 0.1576
Std Dev 0.786

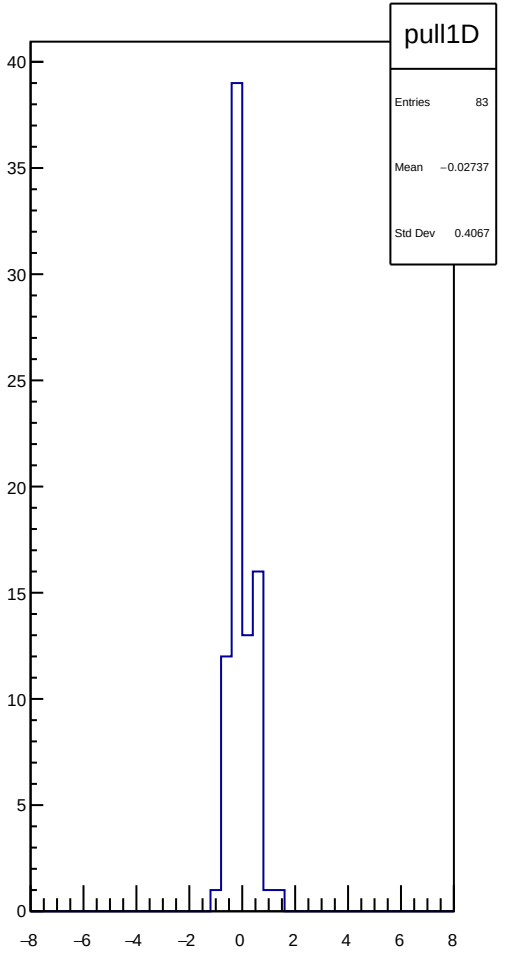

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.05 / 82
p0 55.18 ± 5.385
150
100
50
0
−50
pull
Entries 83
Mean 264.5
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

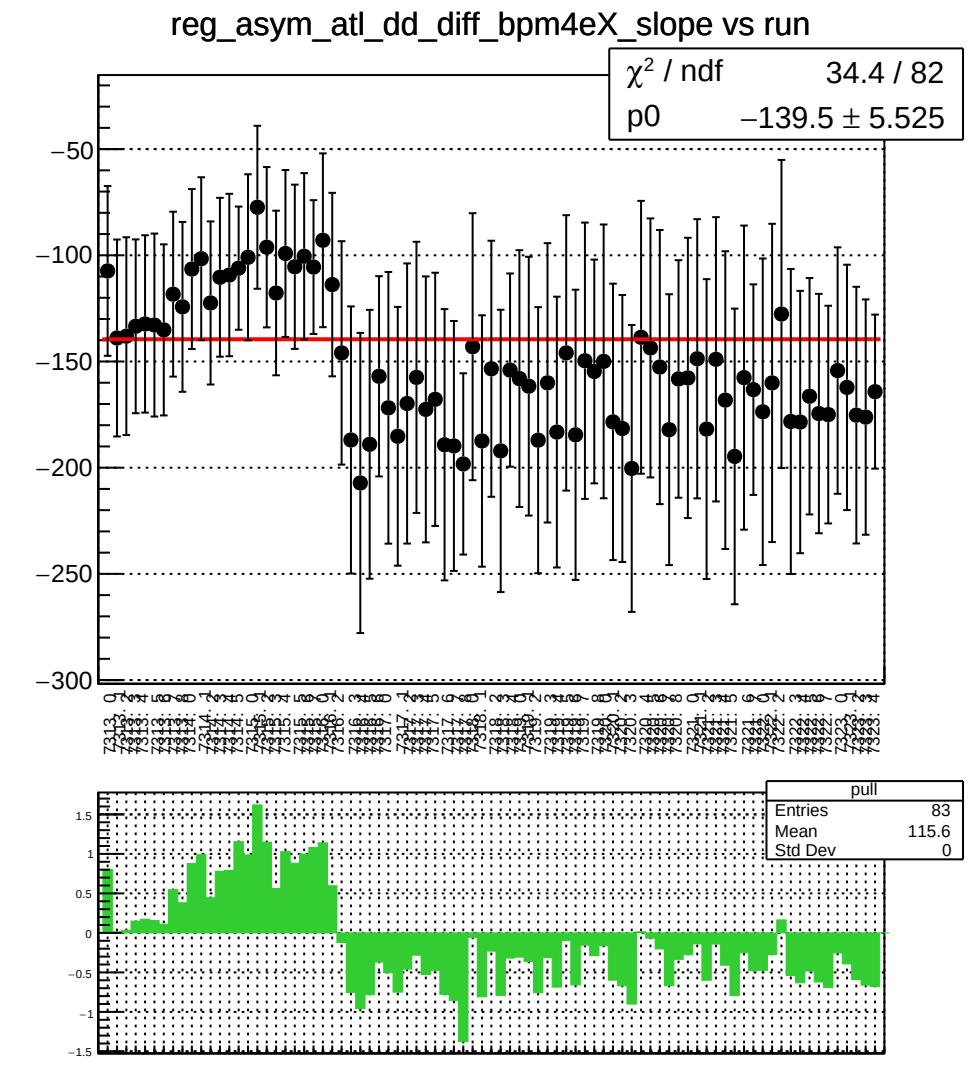

pull1D
Entries 83
Mean −0.03468
Std Dev 0.5372
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

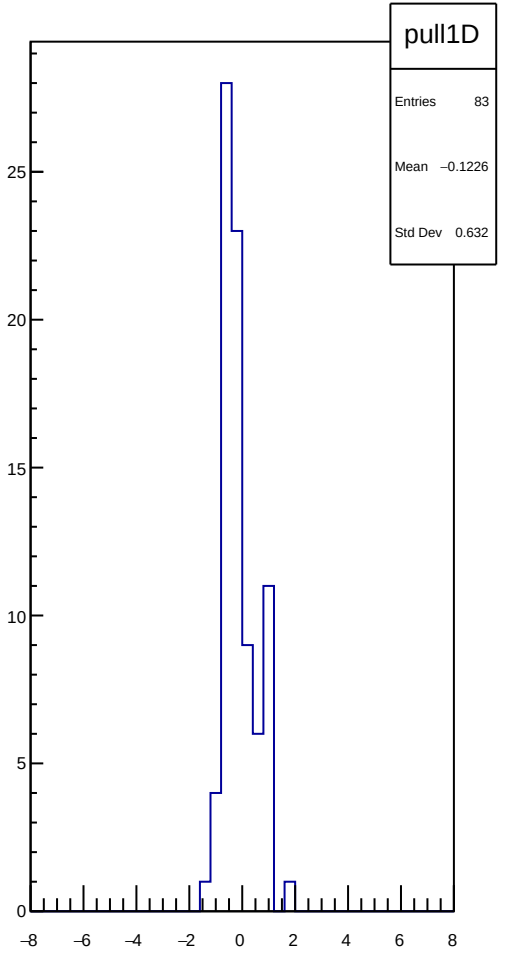

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 97.02 / 82
p0 −113.8 ± 0.2244
pull
Entries 83
Mean 1.757e+04
Std Dev 0
pull1D
Entries 83
Mean 0.001207
Std Dev 1.081

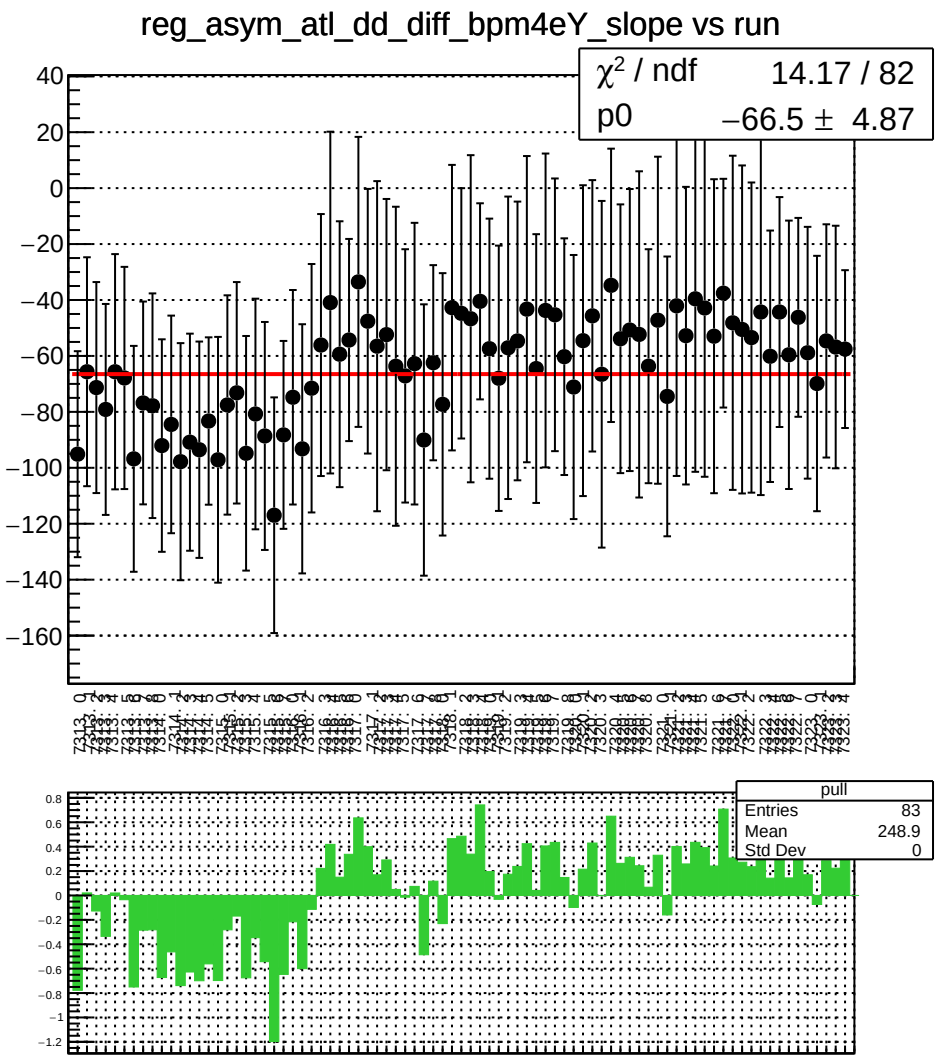

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 33.72 / 82
p0 186.5 ± 5.563
pull
Entries 83
Mean 116.3
Std Dev 0
pull1D
Entries 83
Mean 0.1199
Std Dev 0.626

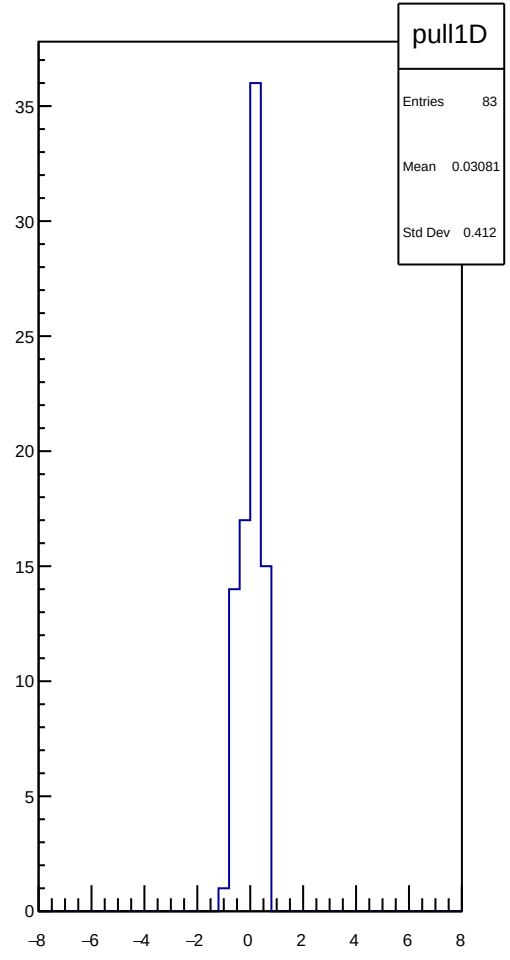

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.79 / 82
p0 5.462 ± 4.505
pull
Entries 83
Mean 270.2
Std Dev 0

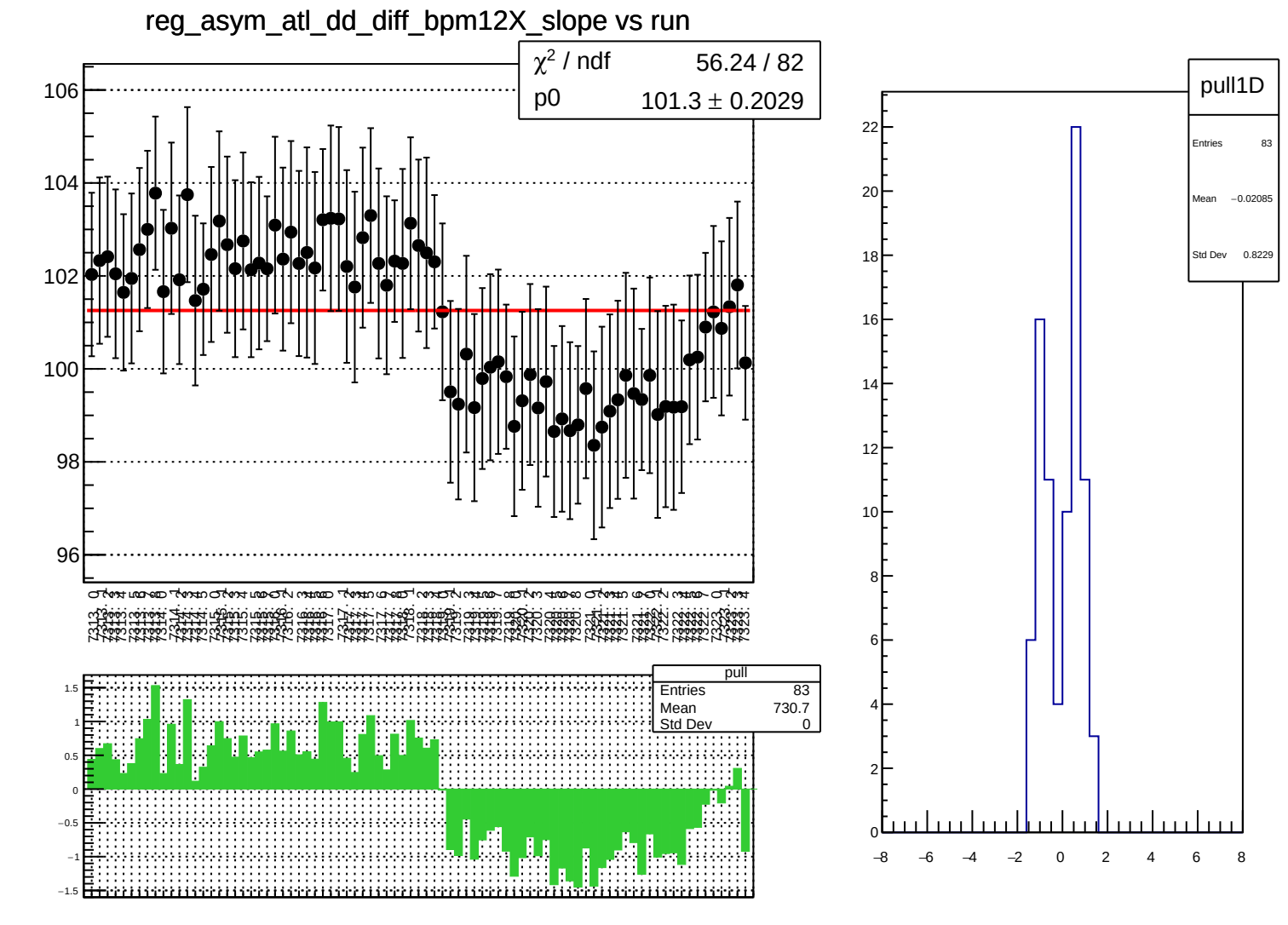

pull1D
Entries 83
Mean −0.02737
Std Dev 0.4067

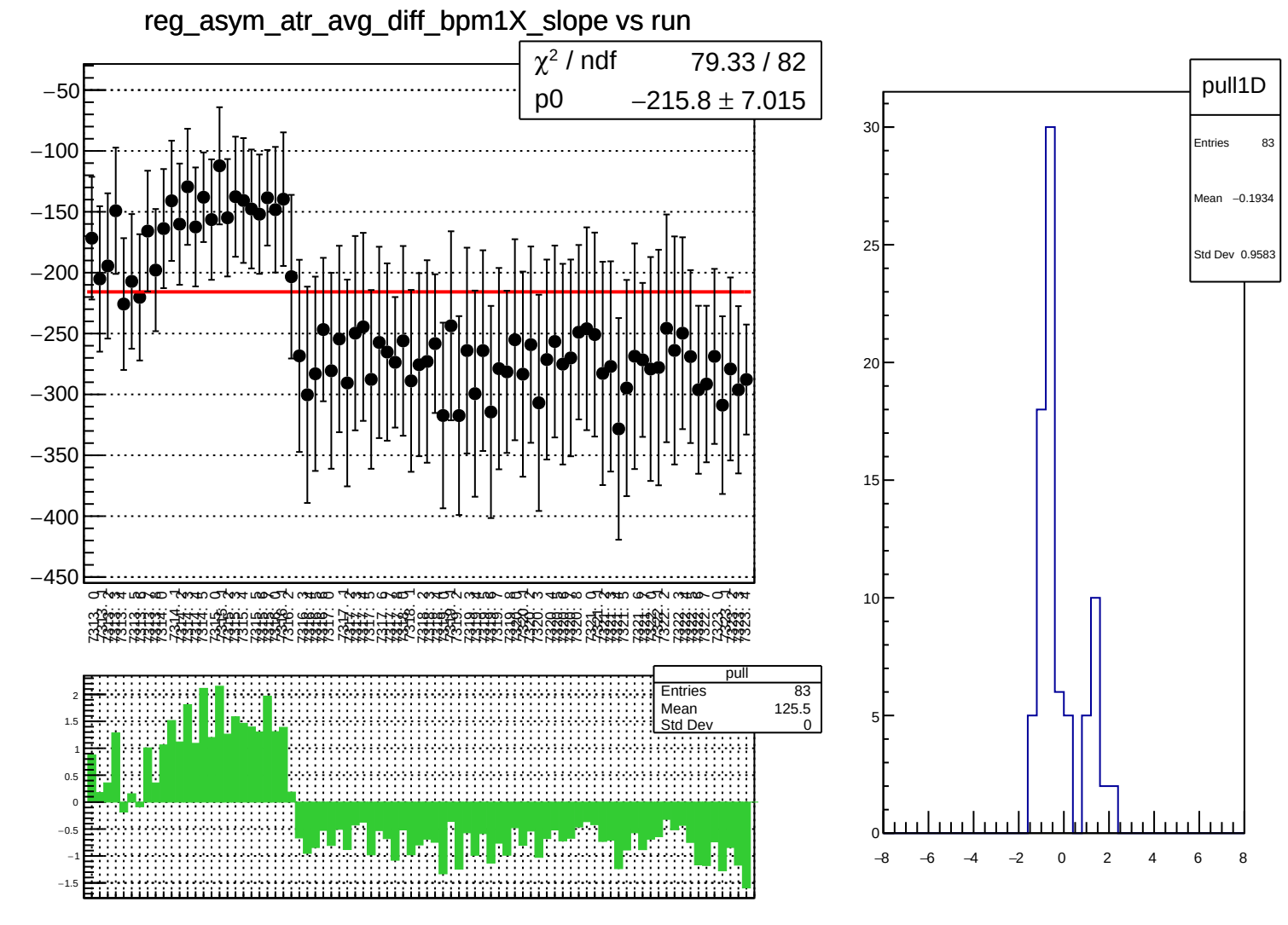

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.4 / 82
p0 −139.5 ± 5.525
pull
Entries 83
Mean 115.6
Std Dev 0

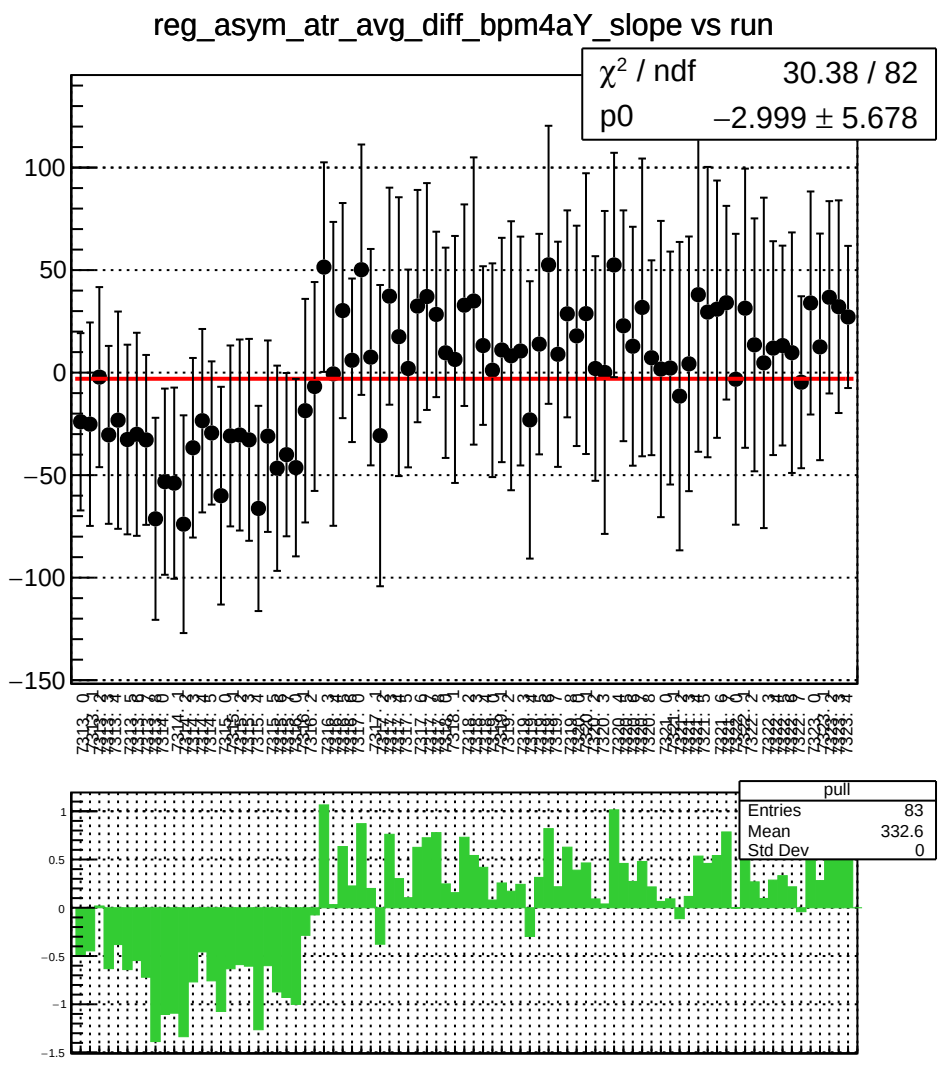

pull1D
Entries 83
Mean −0.1226
Std Dev 0.632

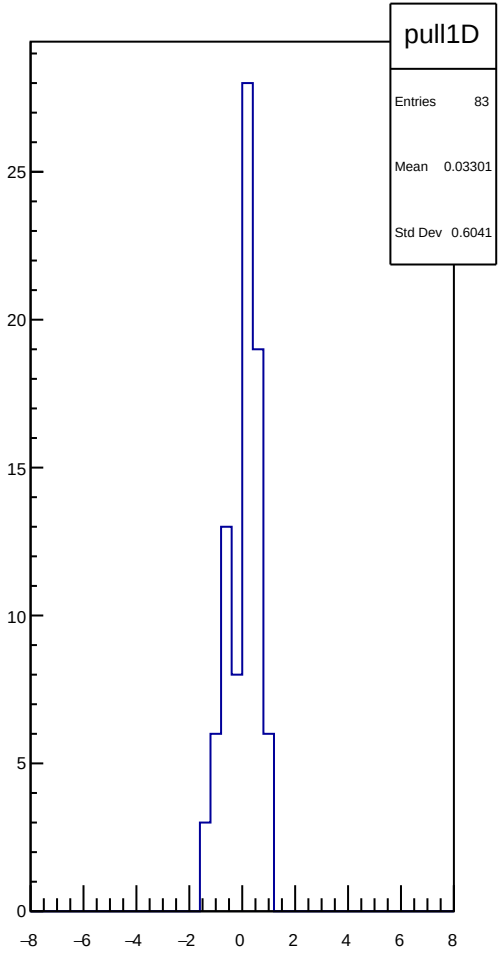

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 14.17 / 82
p0 −66.5 ± 4.87
pull
Entries 83
Mean 248.9
Std Dev 0

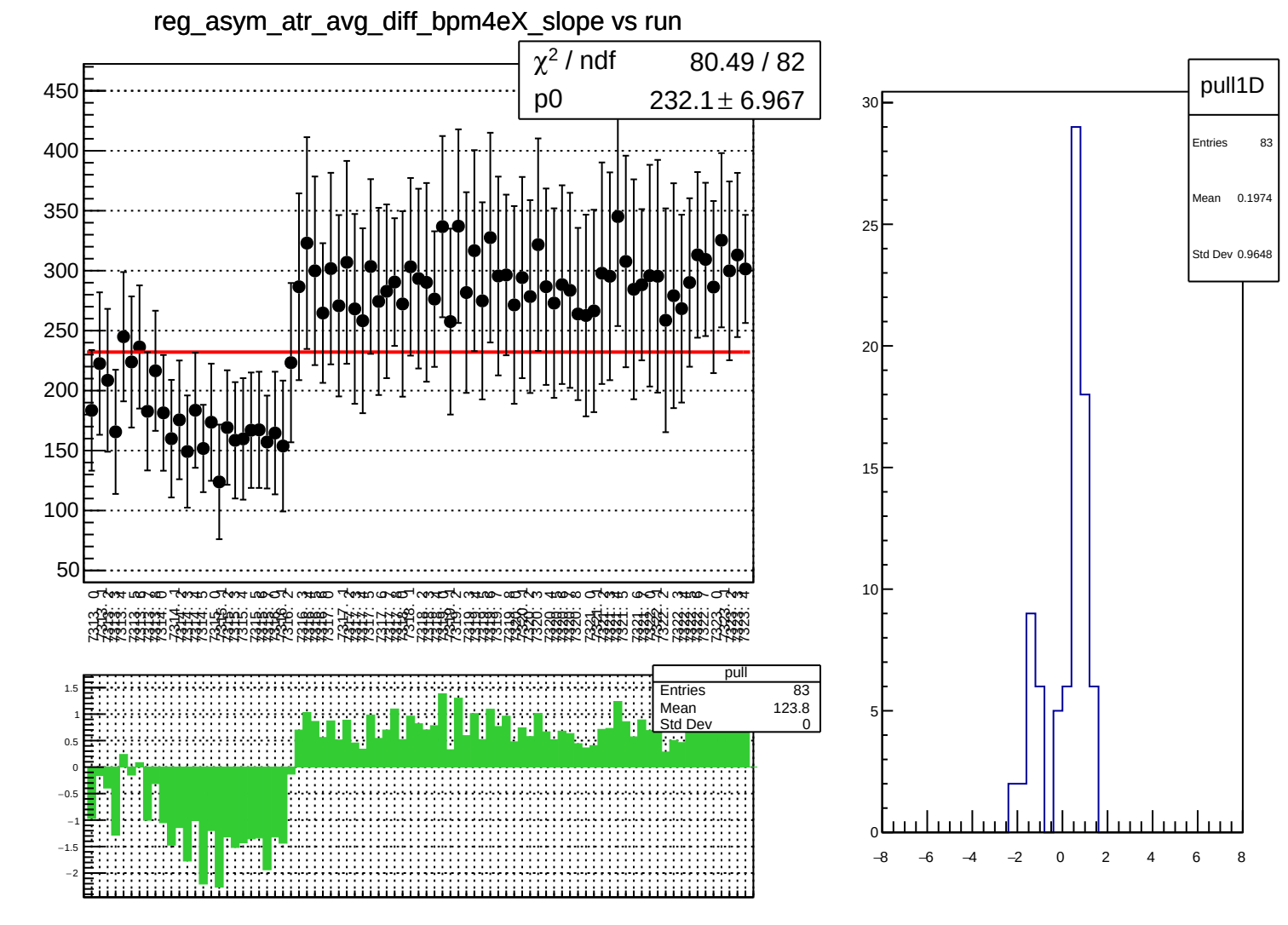

pull1D
Entries 83
Mean 0.03081
Std Dev 0.412

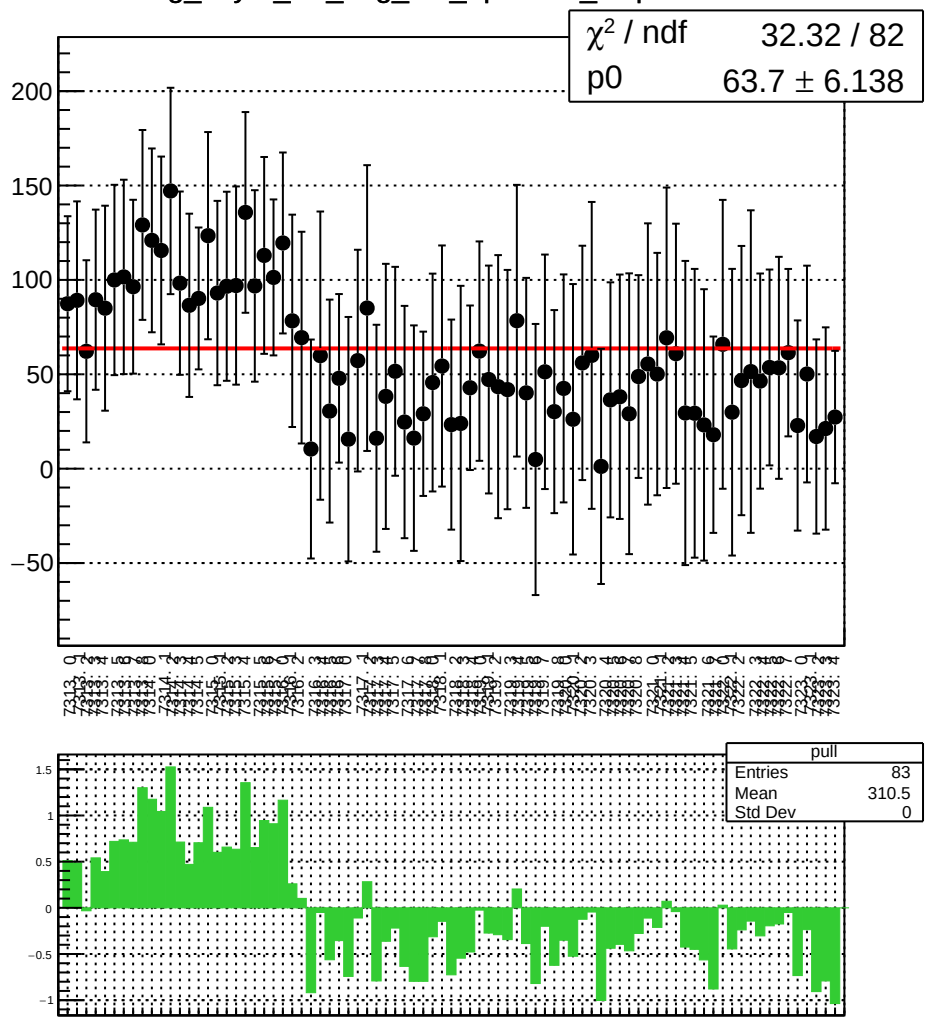

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 56.24 / 82
p0 101.3 ± 0.2029
pull
Entries 83
Mean 730.7
Std Dev 0
pull1D
Entries 83
Mean −0.02085
Std Dev 0.8229

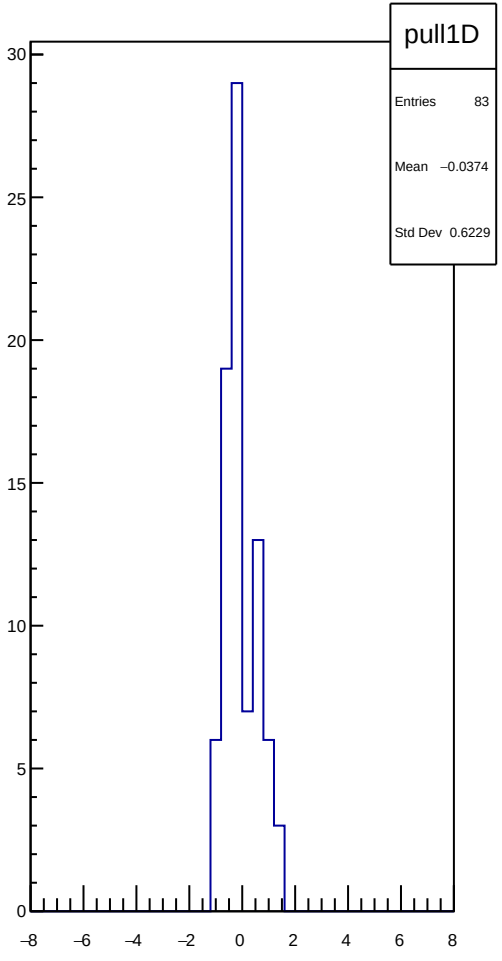

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 79.33 / 82
p0 −215.8 ± 7.015
pull
Entries 83
Mean 125.5
Std Dev 0
pull1D
Entries 83
Mean −0.1934
Std Dev 0.9583

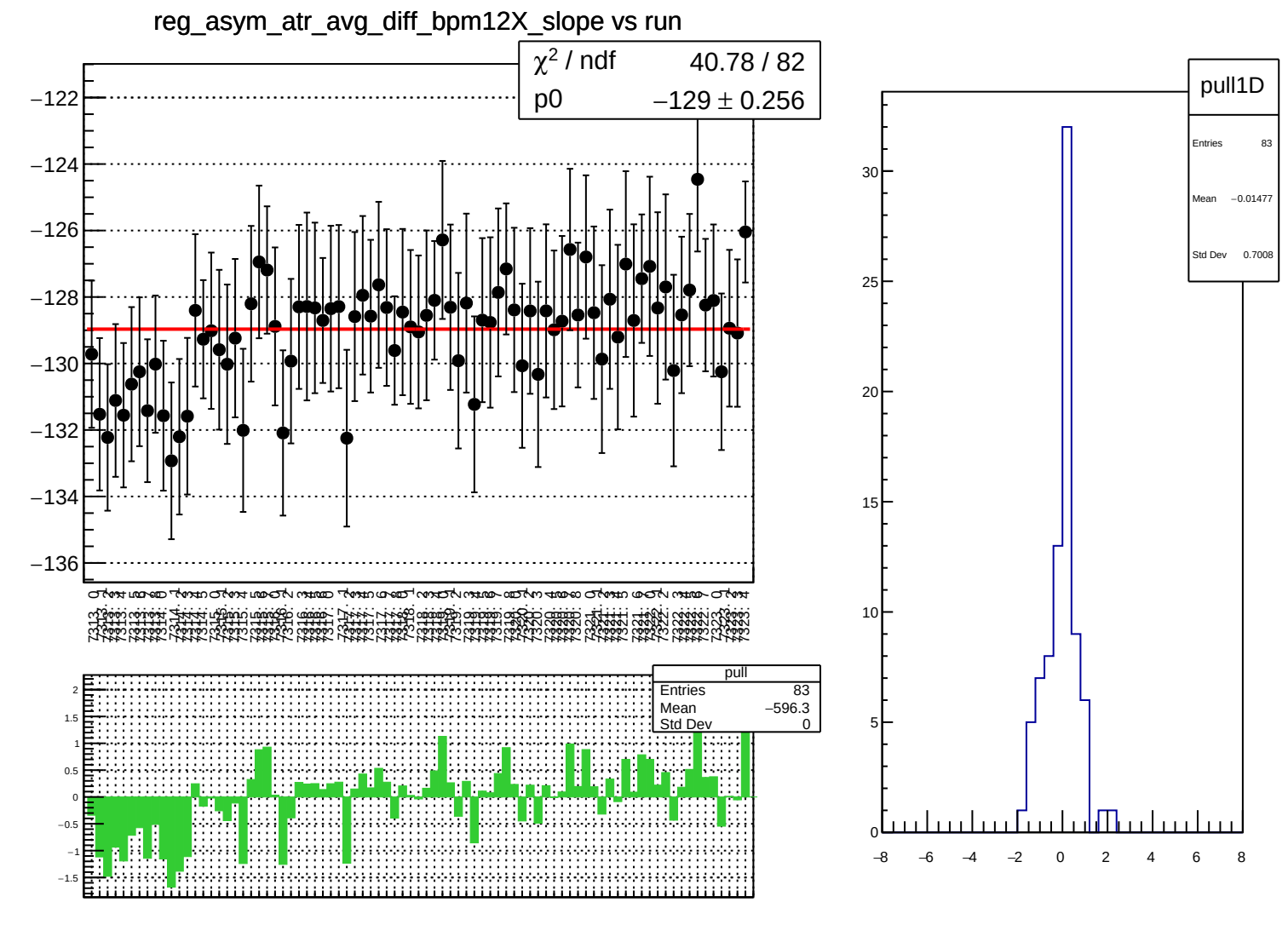

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.38 / 82
p0 −2.999 ± 5.678
pull
Entries 83
Mean 332.6
Std Dev 0

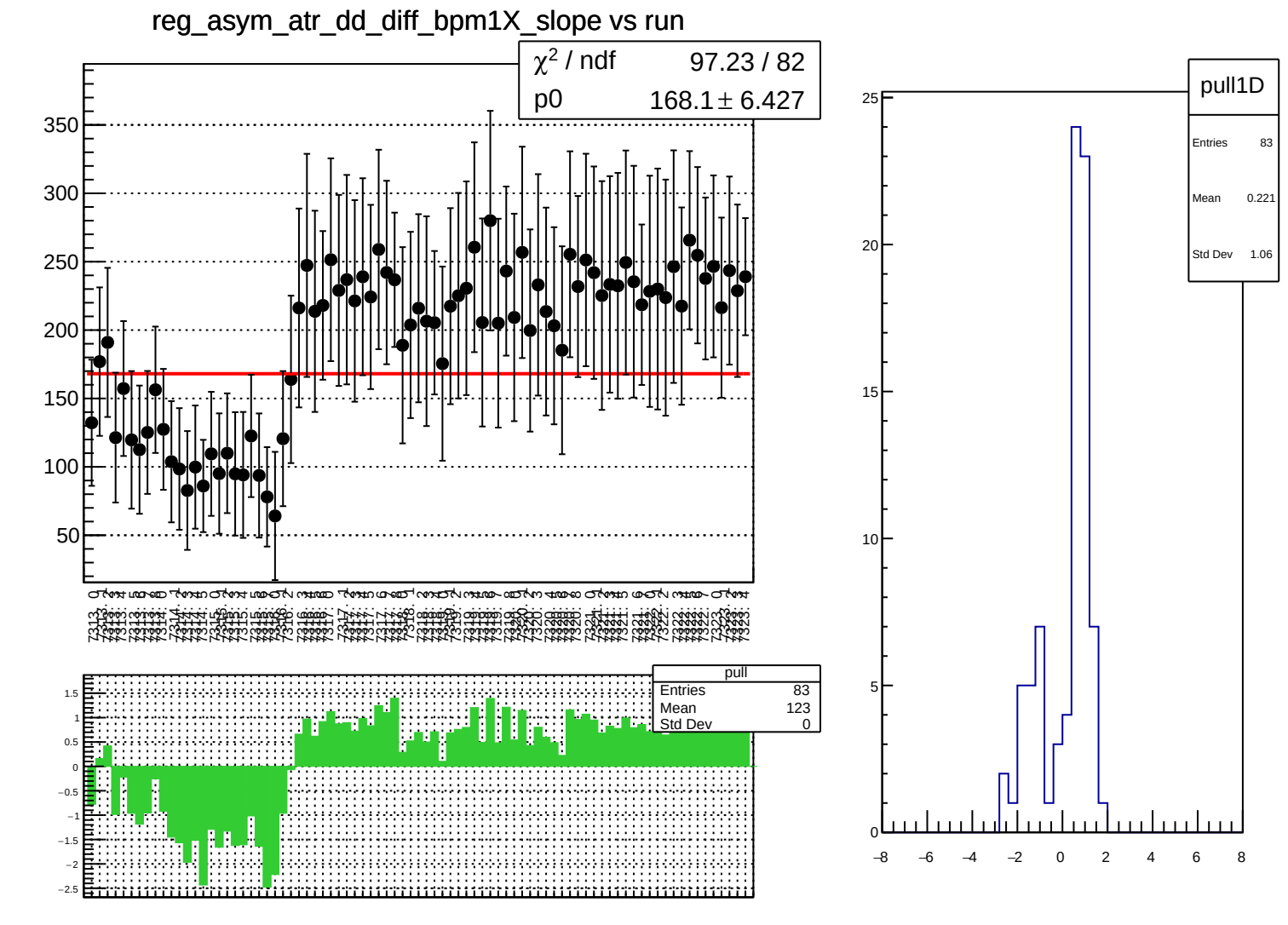

pull1D
Entries 83
Mean 0.03301
Std Dev 0.6041

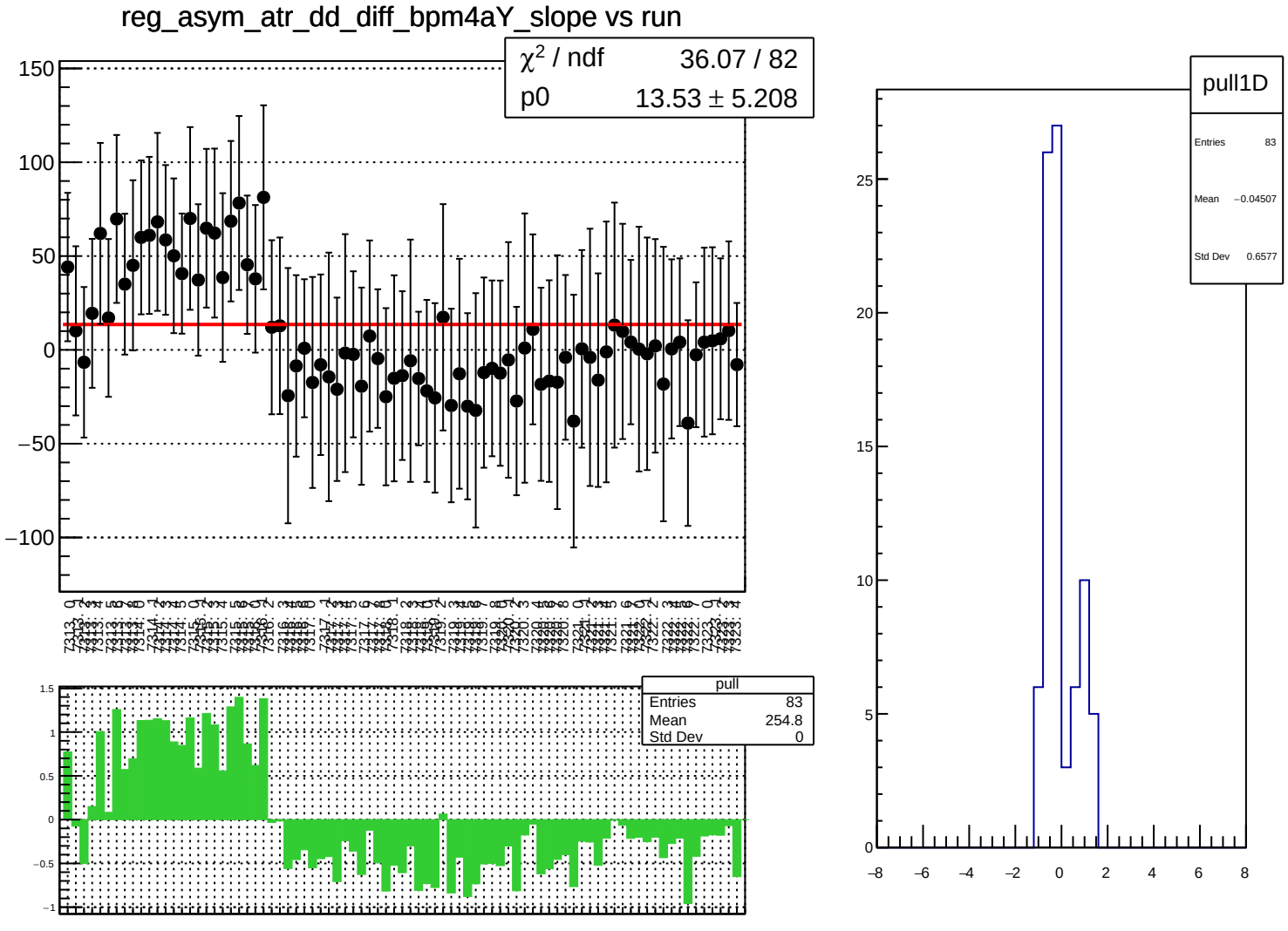

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 80.49 / 82
p0 232.1 ± 6.967
pull
Entries 83
Mean 123.8
Std Dev 0
pull1D
Entries 83
Mean 0.1974
Std Dev 0.9648

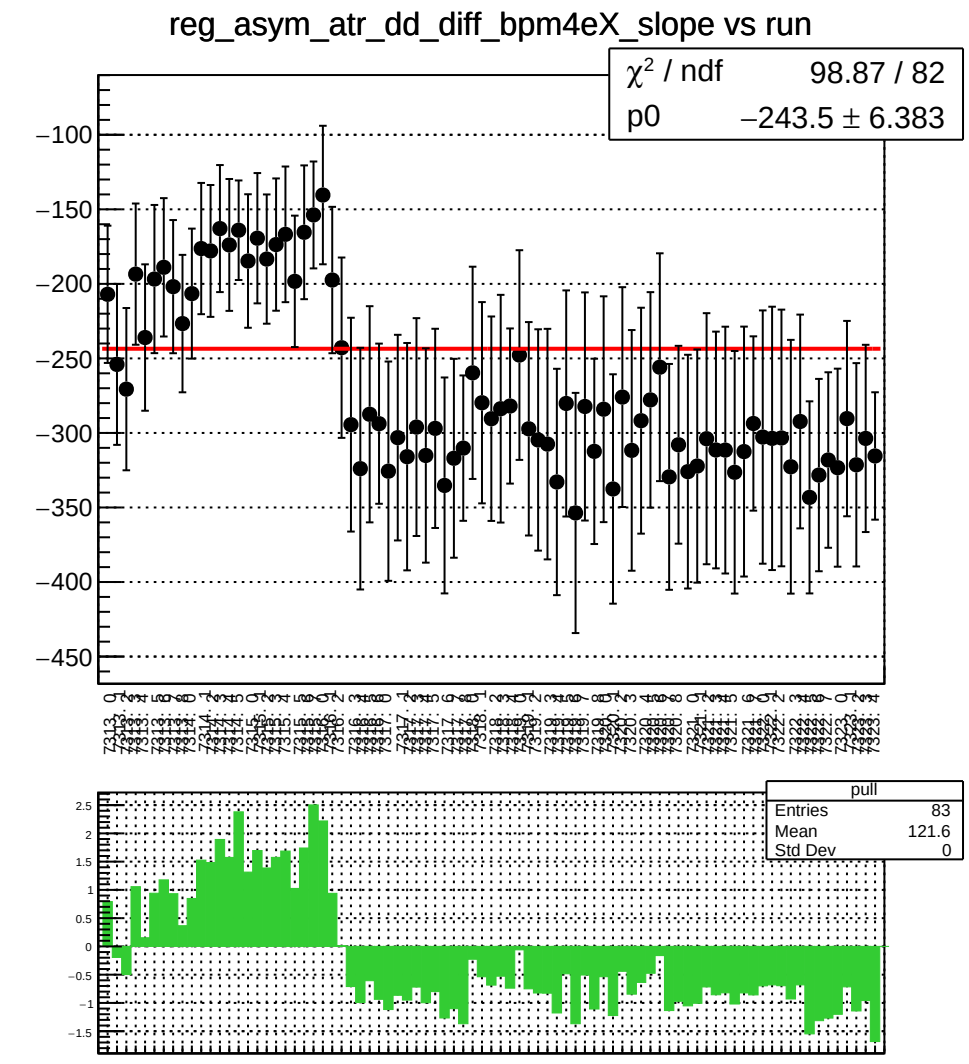

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.32 / 82
p0 63.7 ± 6.138
pull
Entries 83
Mean 310.5
Std Dev 0

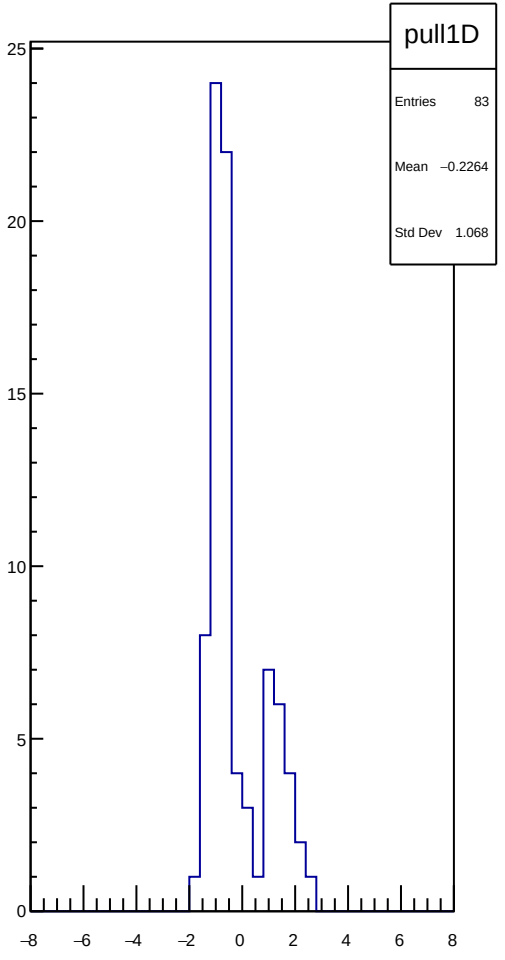

pull1D
Entries 83
Mean −0.0374
Std Dev 0.6229

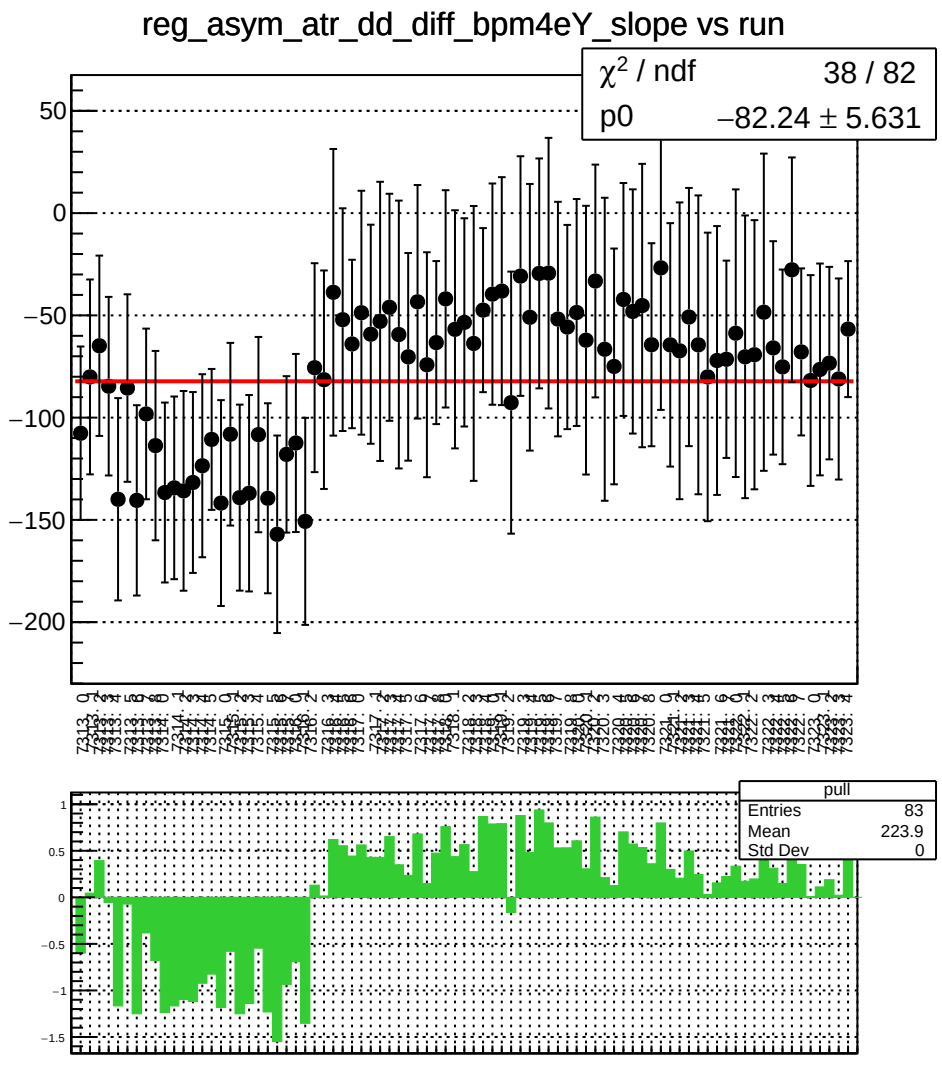

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 40.78 / 82
p0 −129 ± 0.256
−122
−124
−126
−128
−130
−132
−134
−136
pull
Entries 83
Mean −596.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.01477
Std Dev 0.7008
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

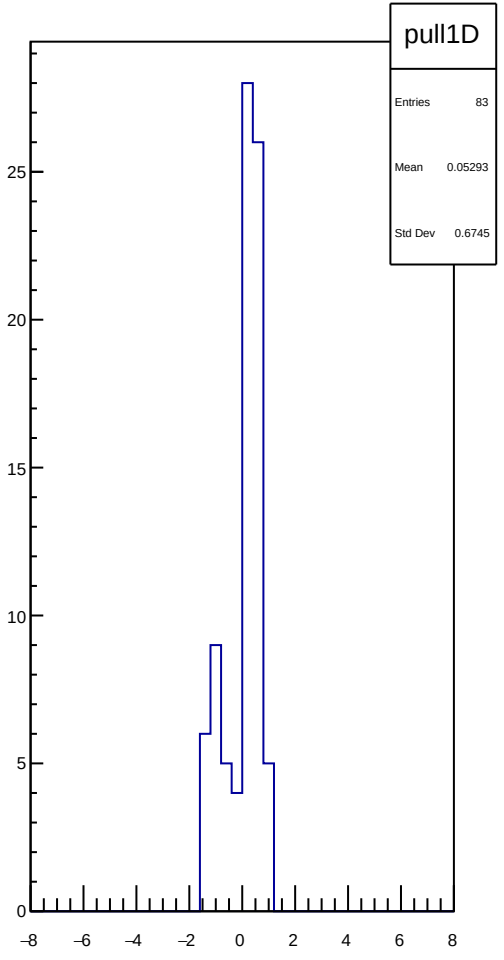

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 97.23 / 82
p0 168.1 ± 6.427
pull
Entries 83
Mean 123
Std Dev 0
pull1D
Entries 83
Mean 0.221
Std Dev 1.06

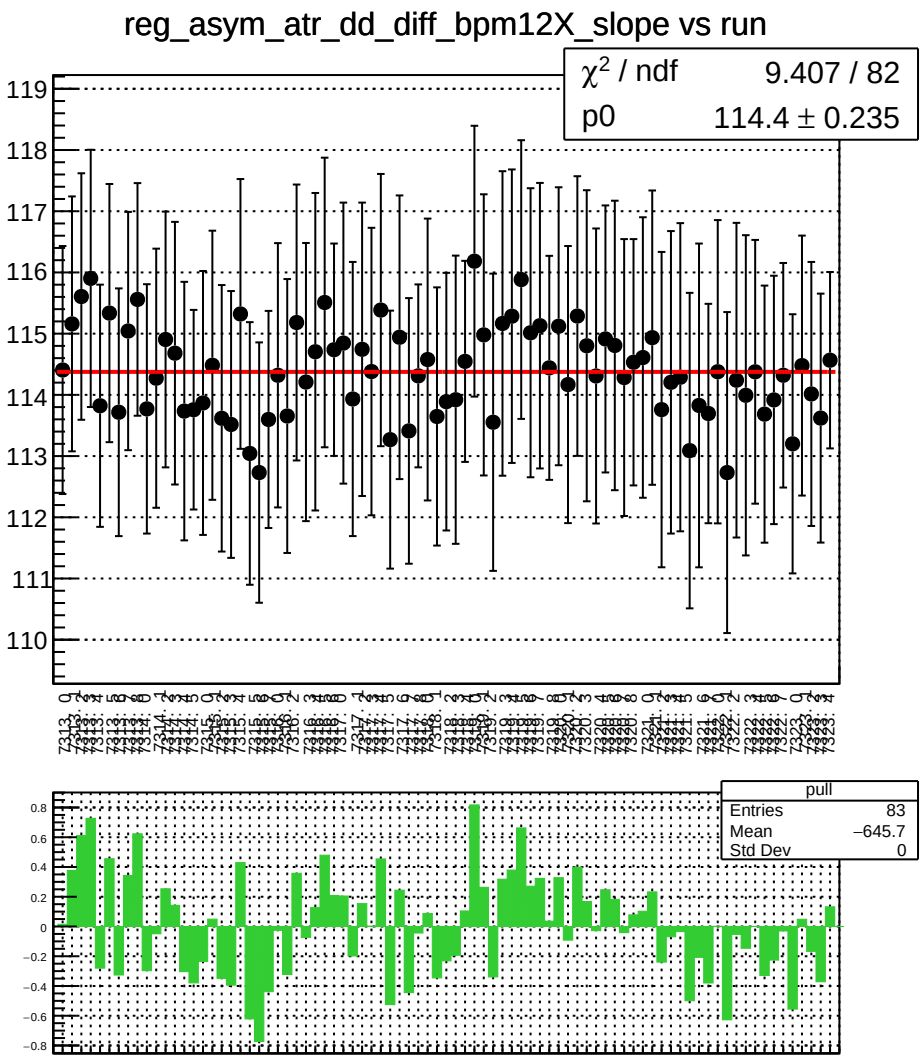

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.07 / 82
p0 13.53 ± 5.208
pull
Entries 83
Mean 254.8
Std Dev 0
pull1D
Entries 83
Mean −0.04507
Std Dev 0.6577

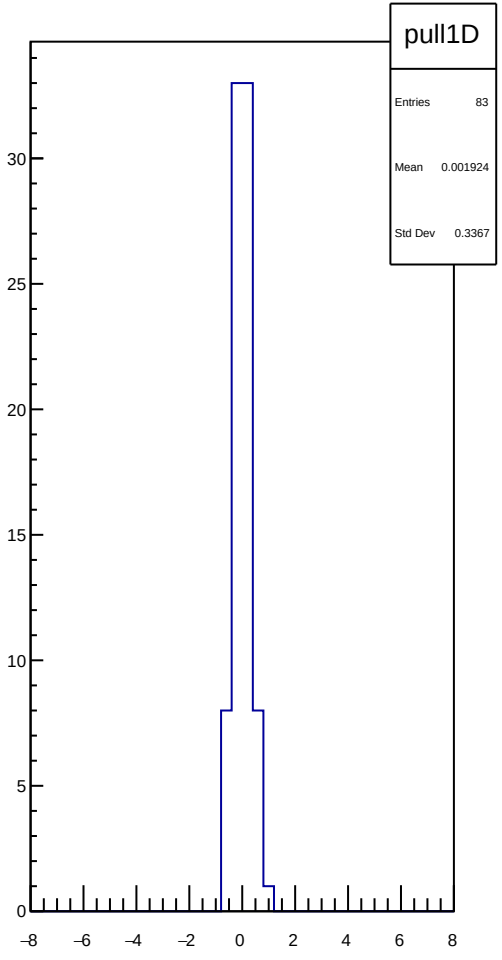

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.87 / 82
p0 −243.5 ± 6.383
pull
Entries 83
Mean 121.6
Std Dev 0

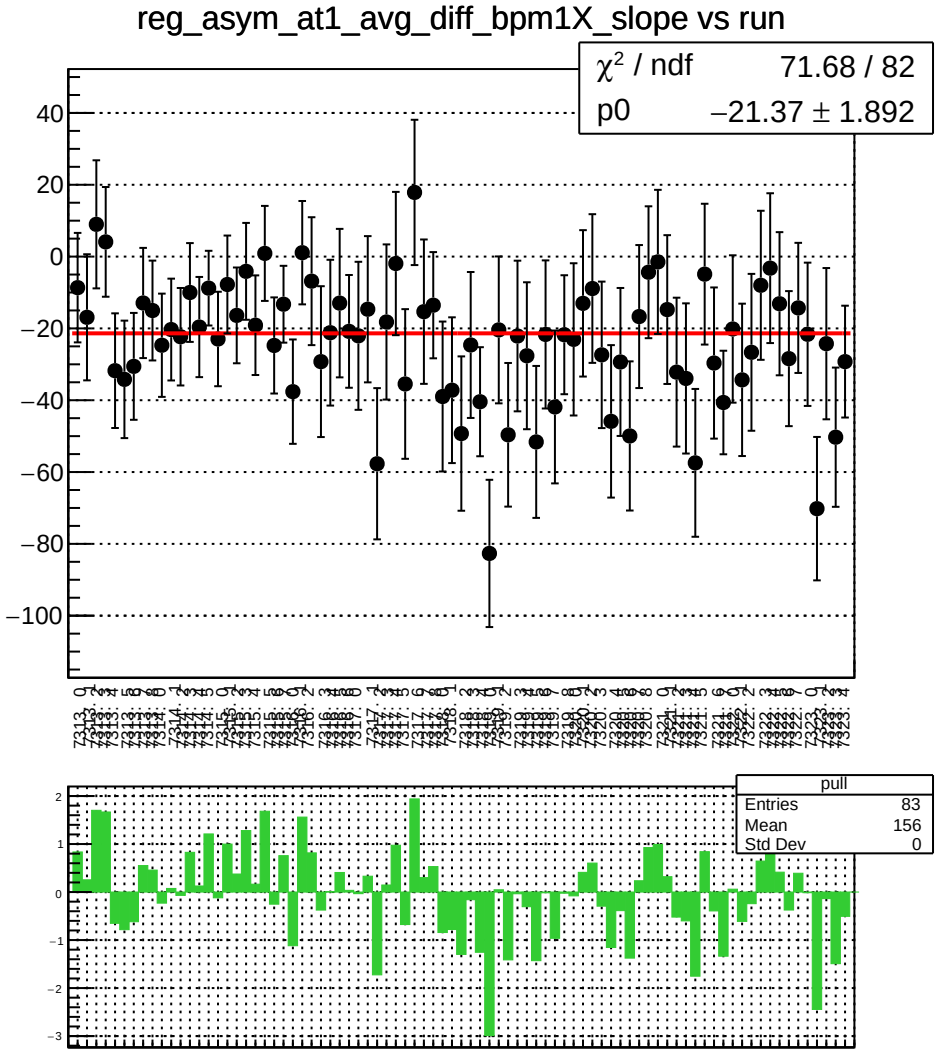

pull1D
Entries 83
Mean −0.2264
Std Dev 1.068

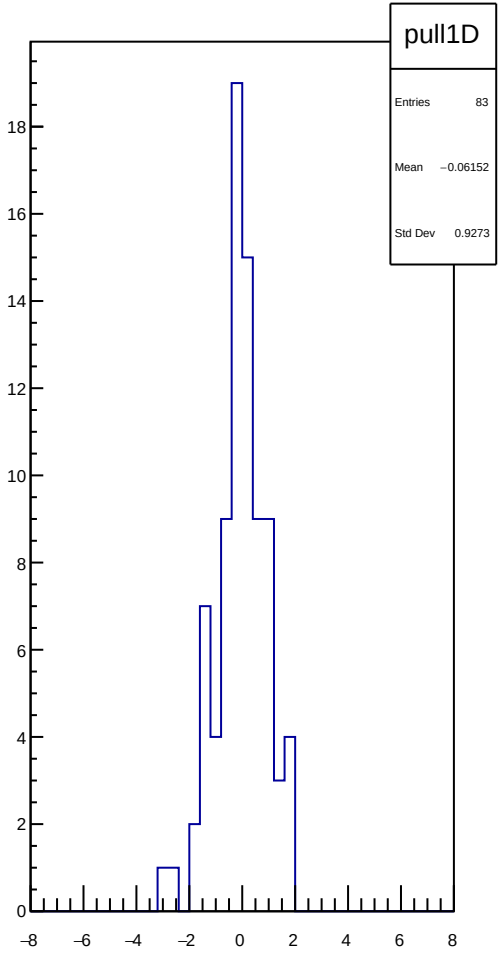

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 38 / 82
p0 −82.24 ± 5.631
50
0
−50
−100
−150
−200
pull
Entries 83
Mean 223.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

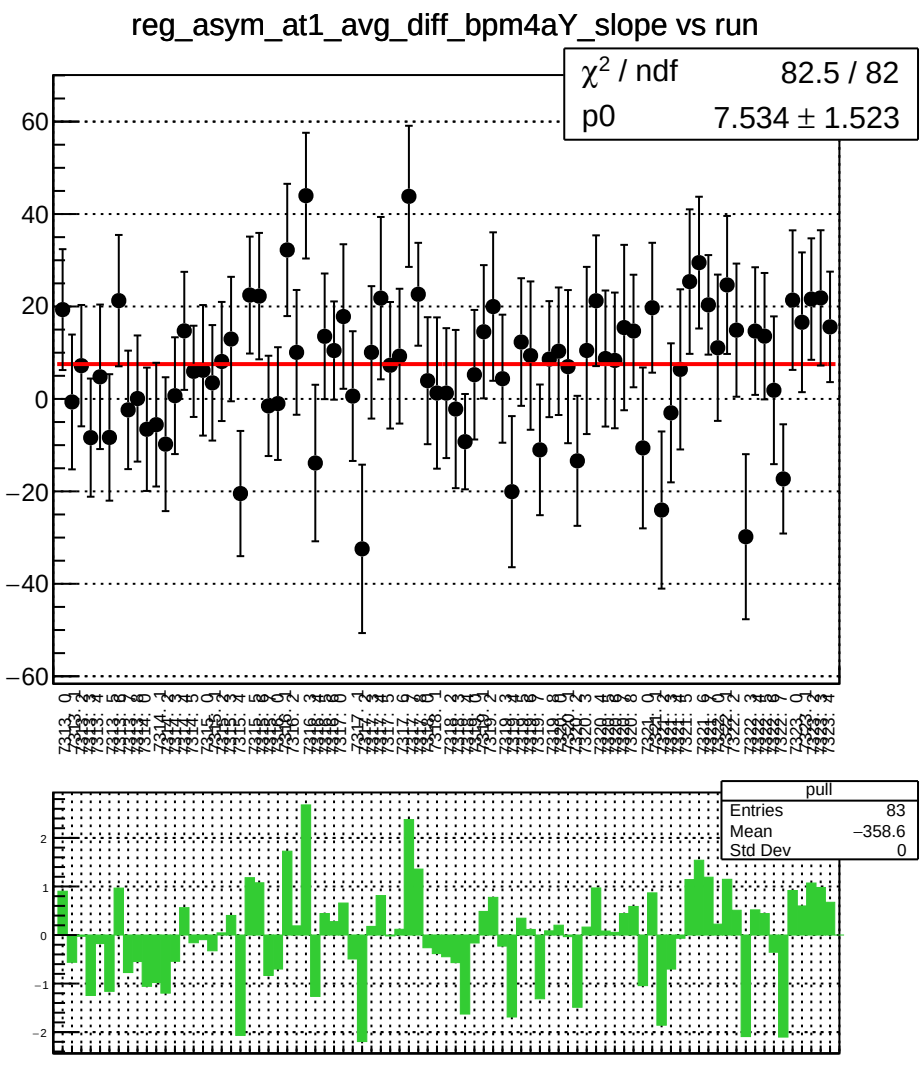

pull1D
Entries 83
Mean 0.05293
Std Dev 0.6745
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

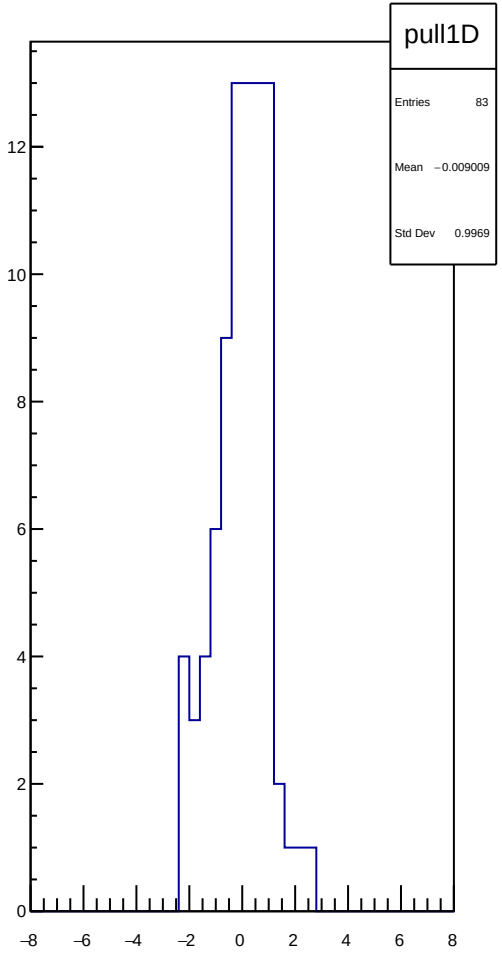

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.407 / 82
p0 114.4 ± 0.235
pull
Entries 83
Mean −645.7
Std Dev 0

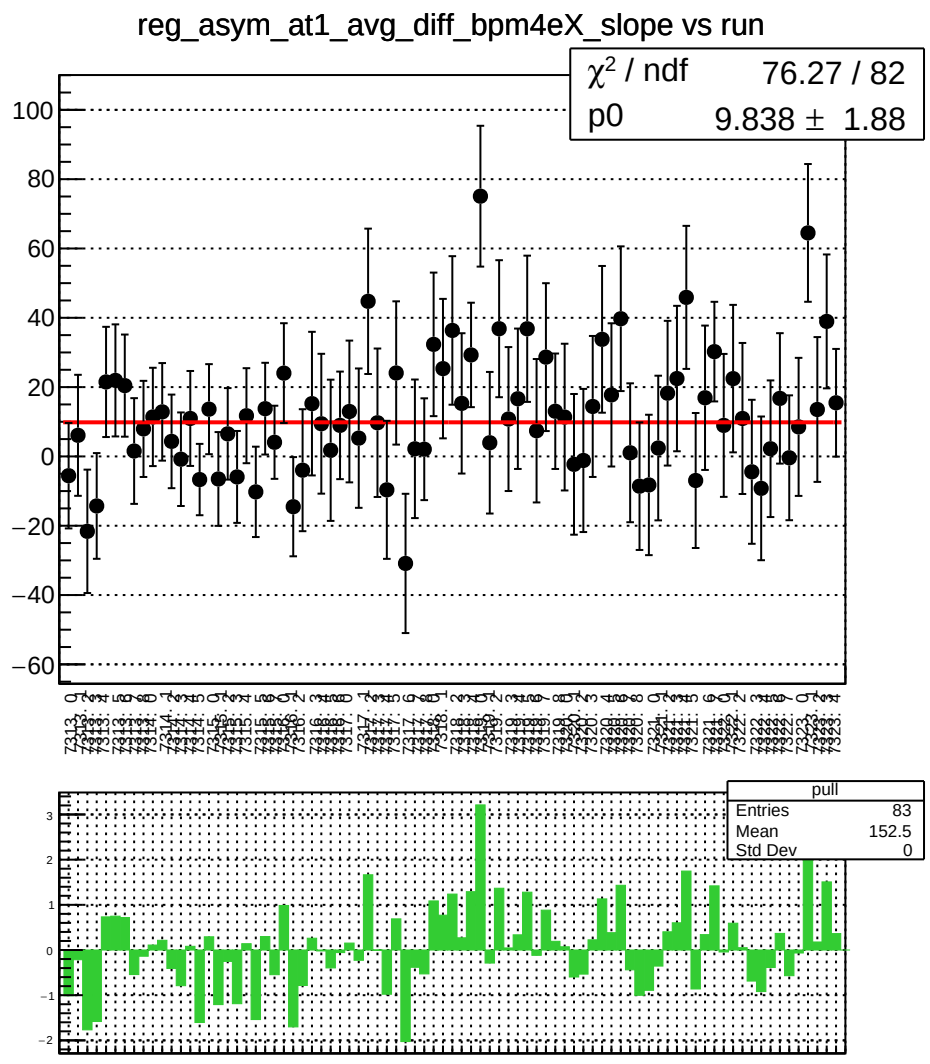

pull1D
Entries 83
Mean 0.001924
Std Dev 0.3367

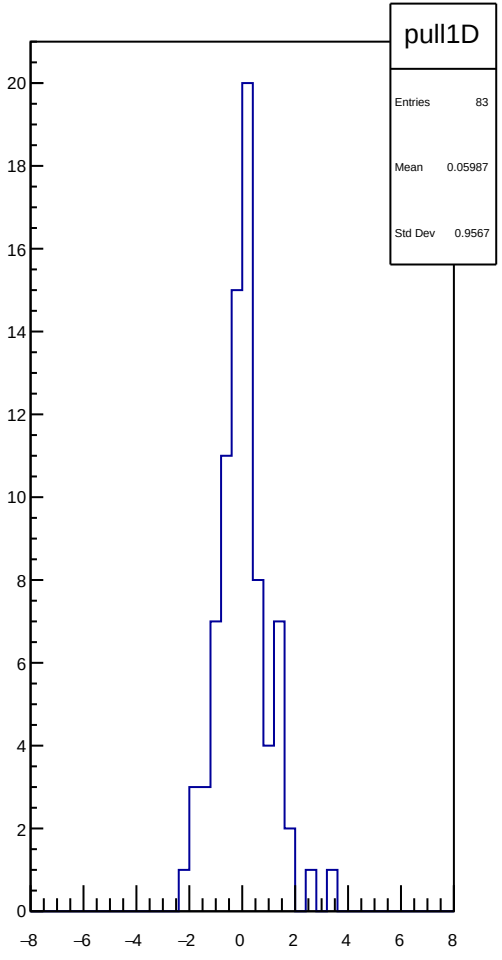

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 71.68 / 82
p0 −21.37 ± 1.892
pull
Entries 83
Mean 156
Std Dev 0

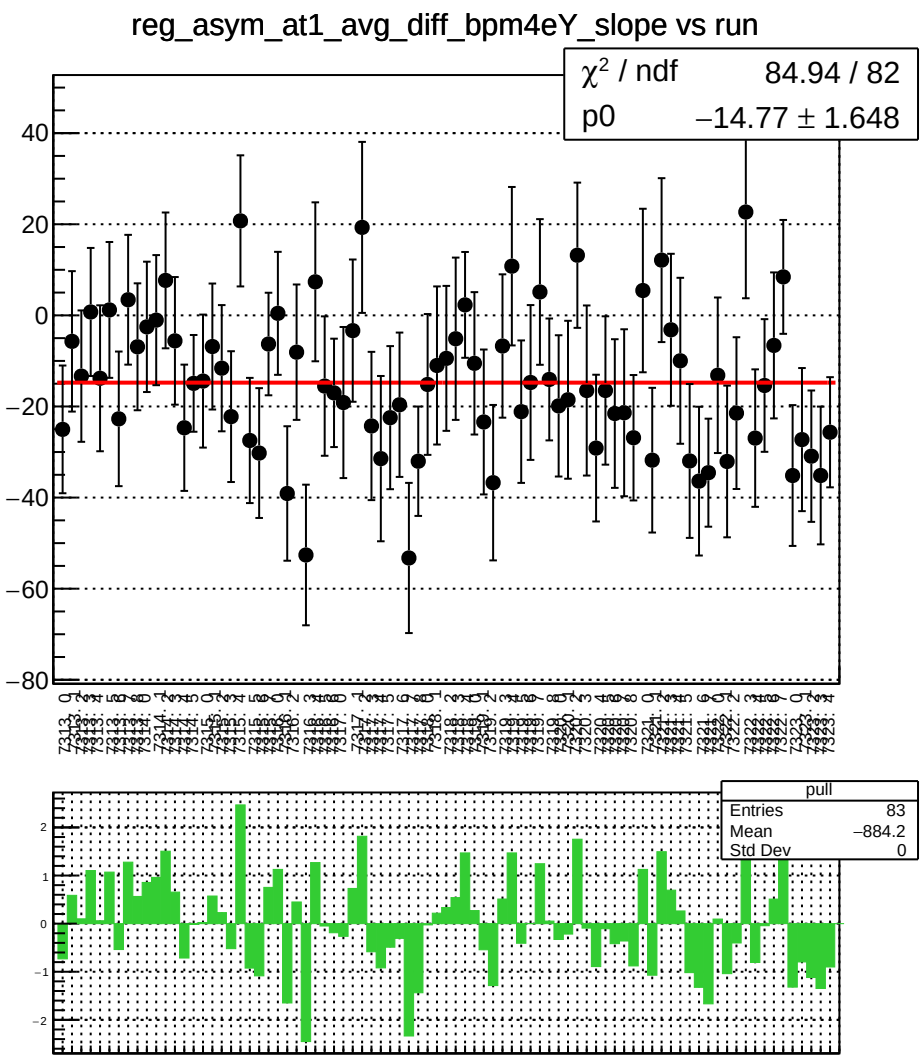

pull1D
Entries 83
Mean −0.06152
Std Dev 0.9273

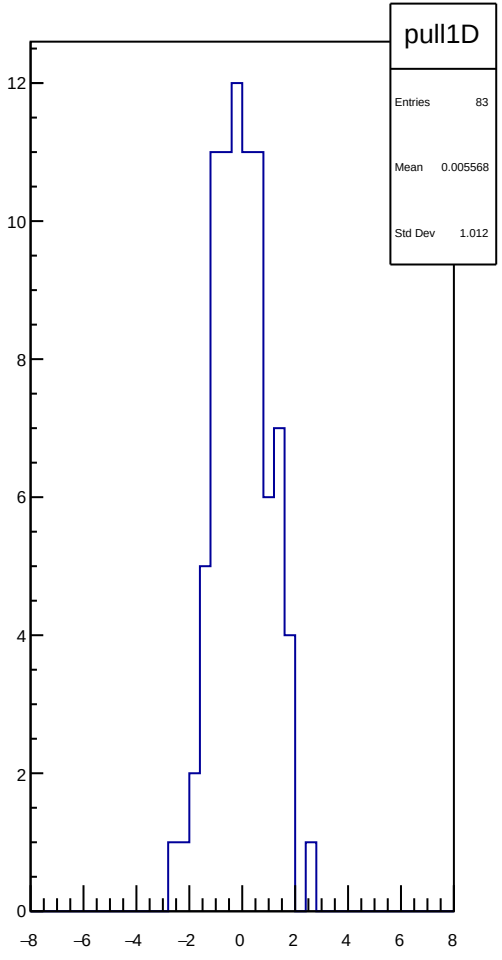

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.5 / 82
p0 7.534 ± 1.523
pull
Entries 83
Mean −358.6
Std Dev 0

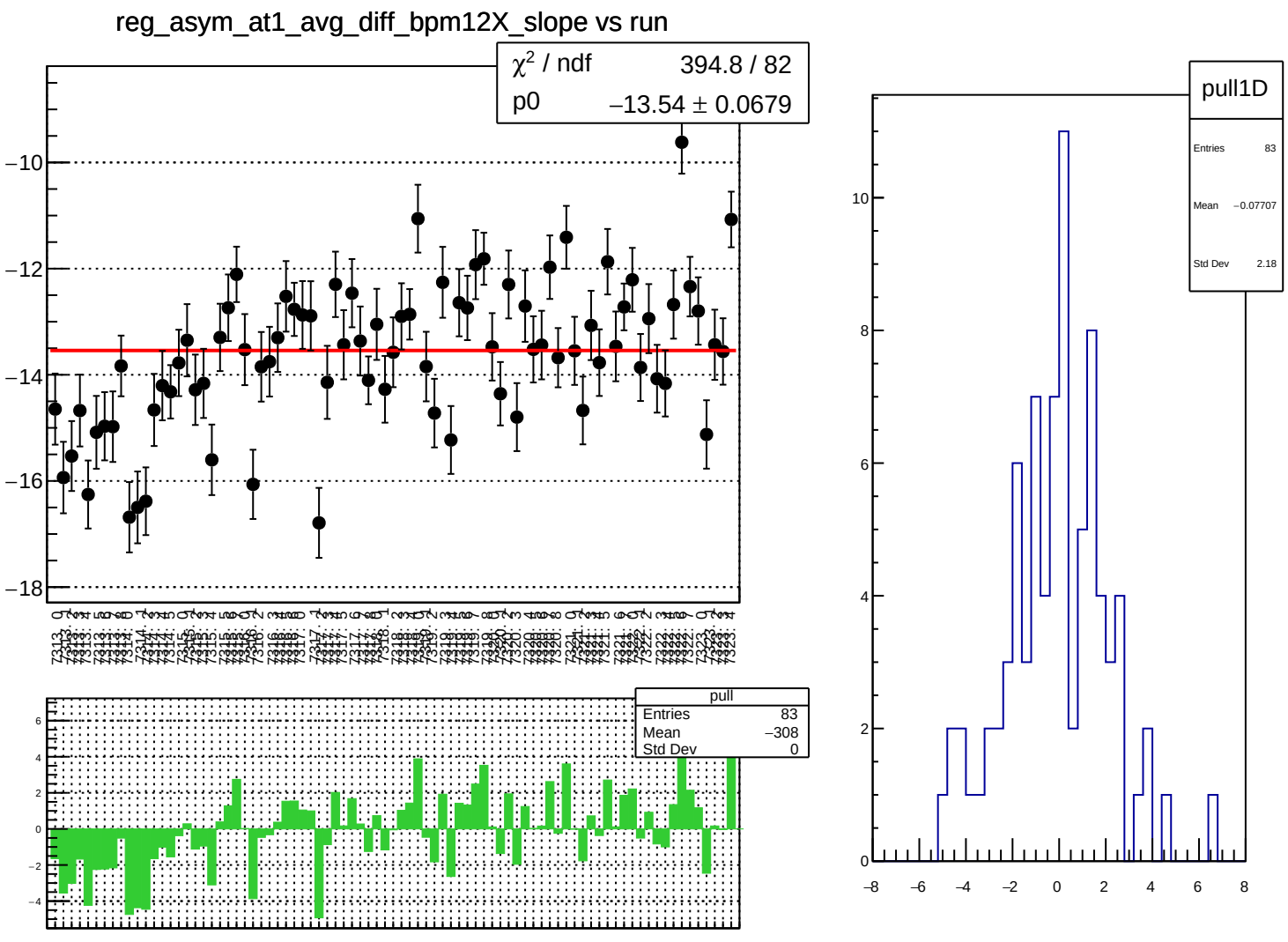

pull1D
Entries 83
Mean −0.009009
Std Dev 0.9969

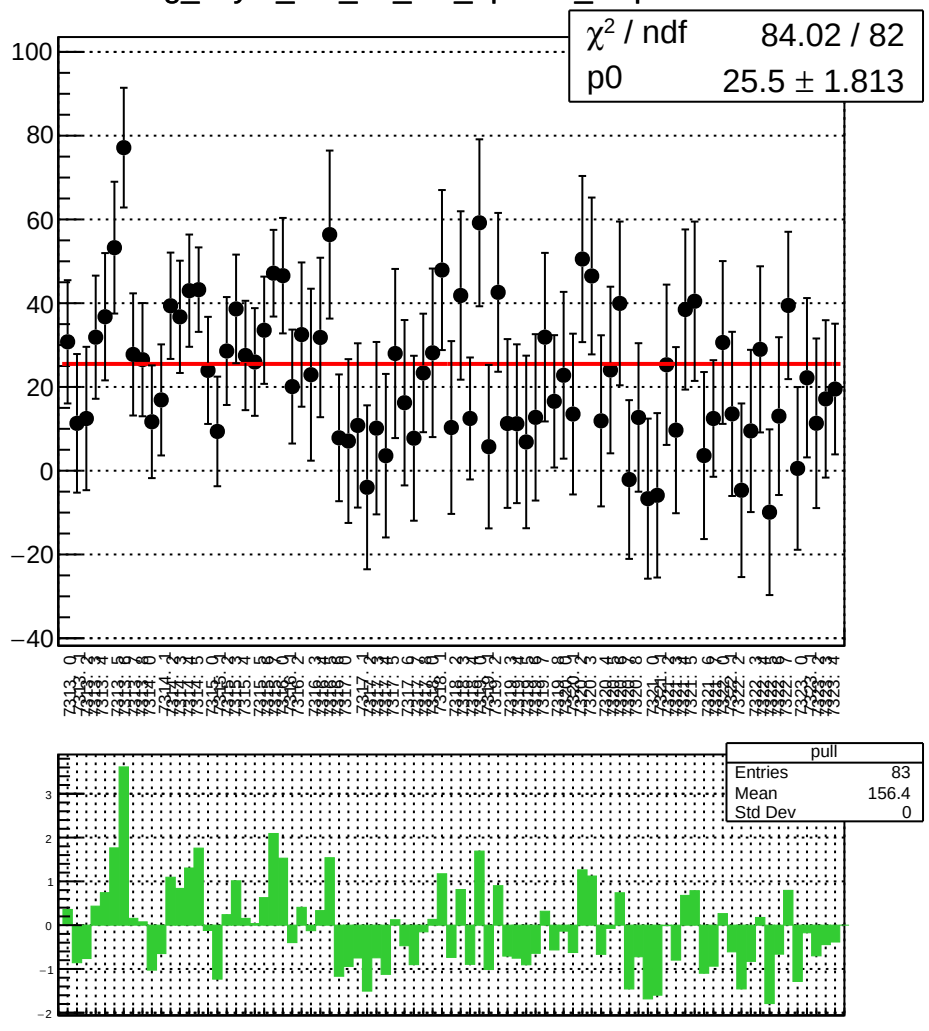

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.27 / 82
p0 9.838 ± 1.88
pull
Entries 83
Mean 152.5
Std Dev 0

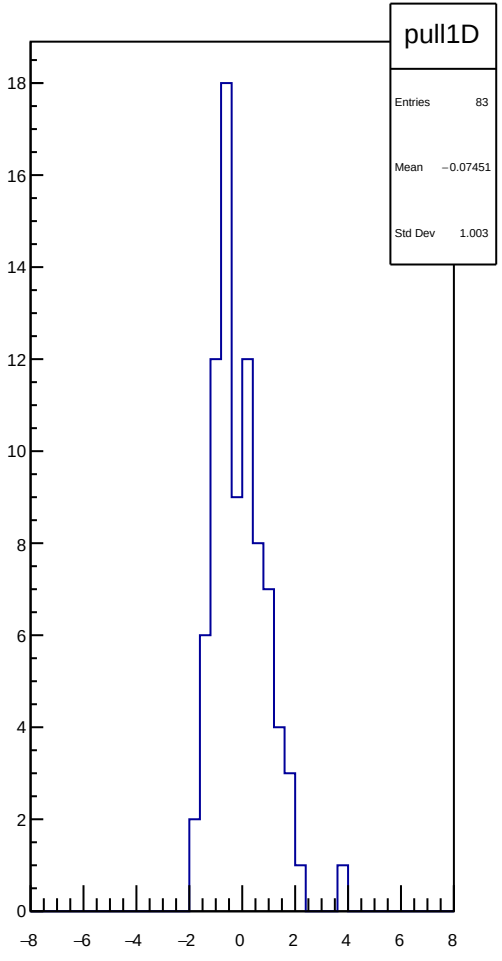

pull1D
Entries 83
Mean 0.05987
Std Dev 0.9567

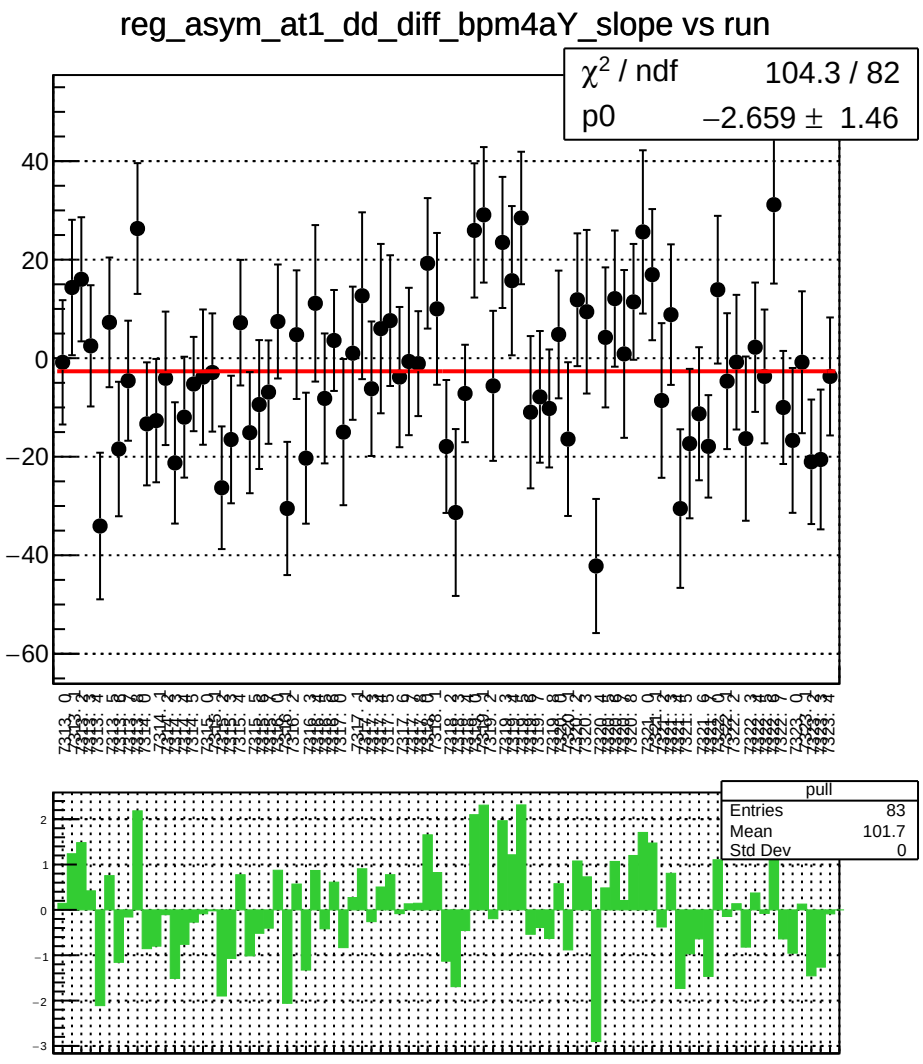

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.94 / 82
p0 −14.77 ± 1.648
pull
Entries 83
Mean −884.2
Std Dev 0

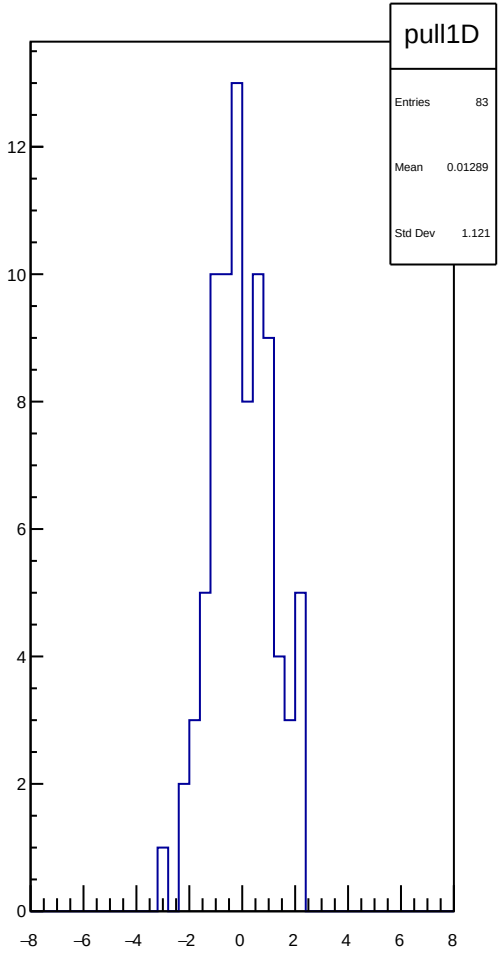

pull1D
Entries 83
Mean 0.005568
Std Dev 1.012

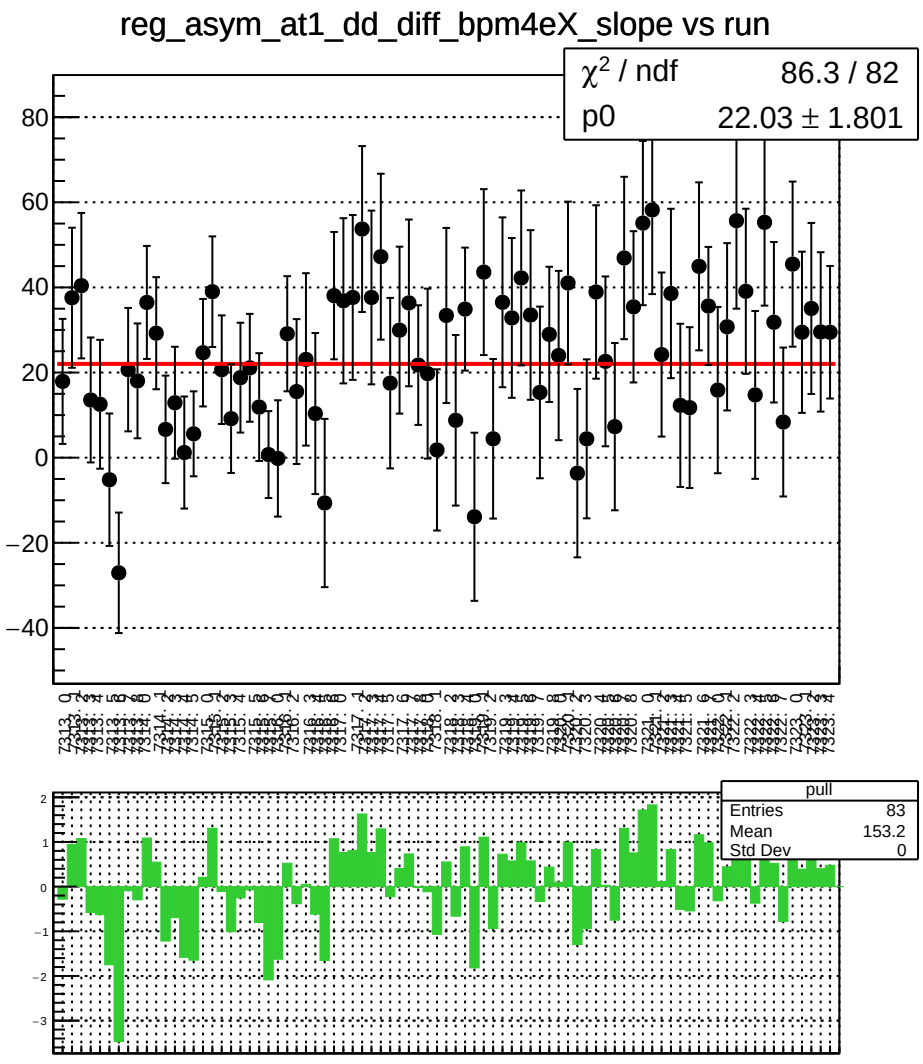

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 394.8 / 82
p0 −13.54 ± 0.0679
pull
Entries 83
Mean −308
Std Dev 0
pull1D
Entries 83
Mean −0.07707
Std Dev 2.18

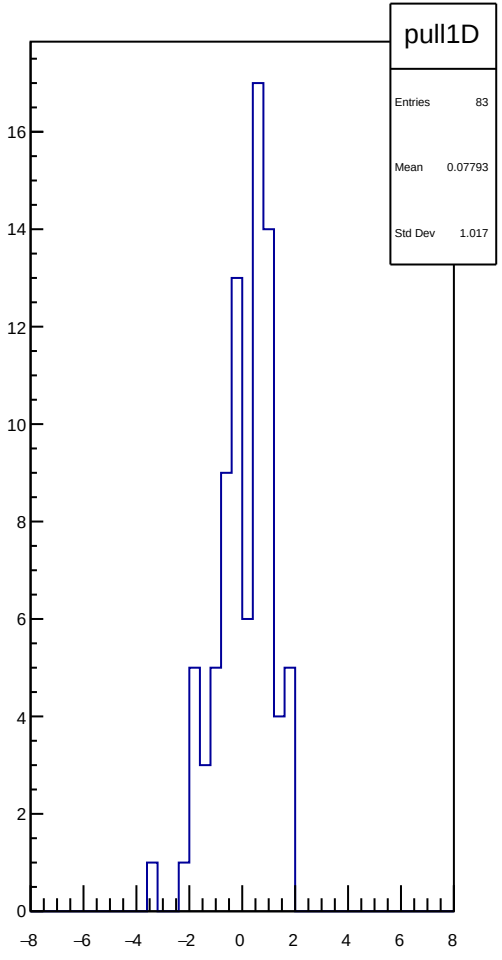

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 84.02 / 82
p0 25.5 ± 1.813
pull
Entries 83
Mean 156.4
Std Dev 0

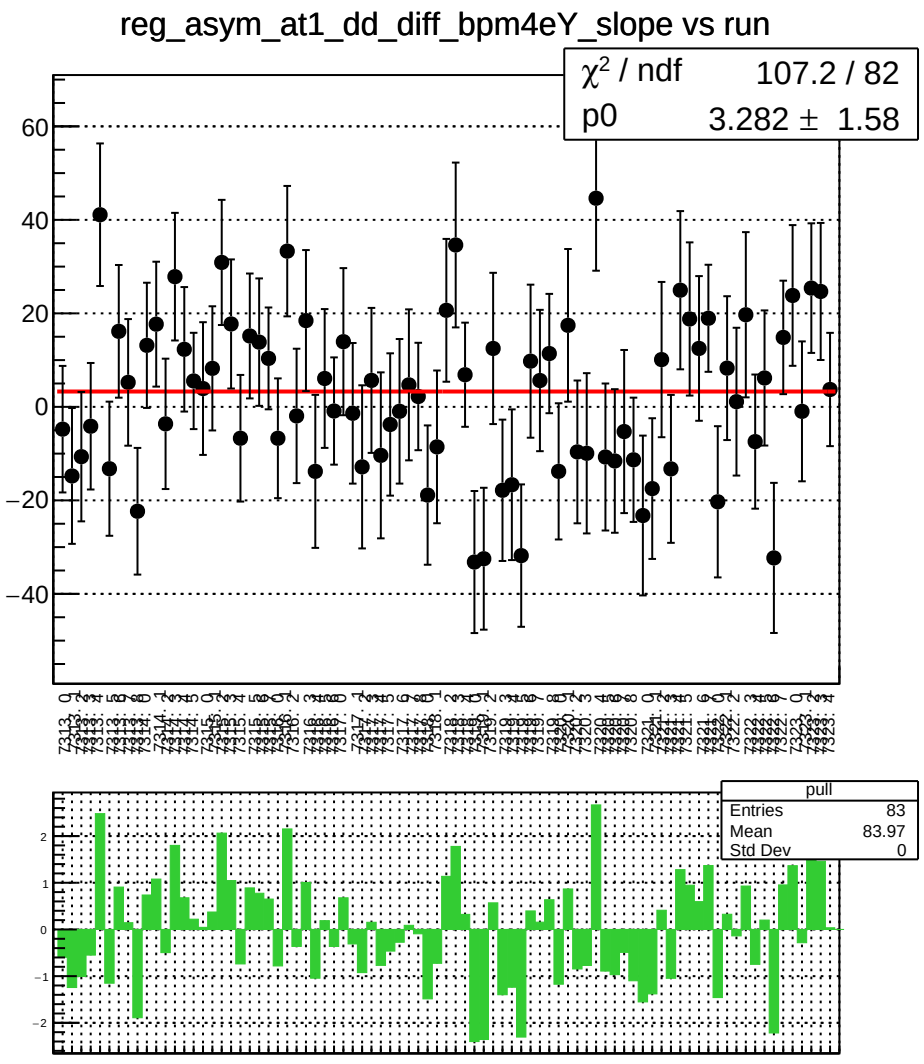

pull1D
Entries 83
Mean −0.07451
Std Dev 1.003

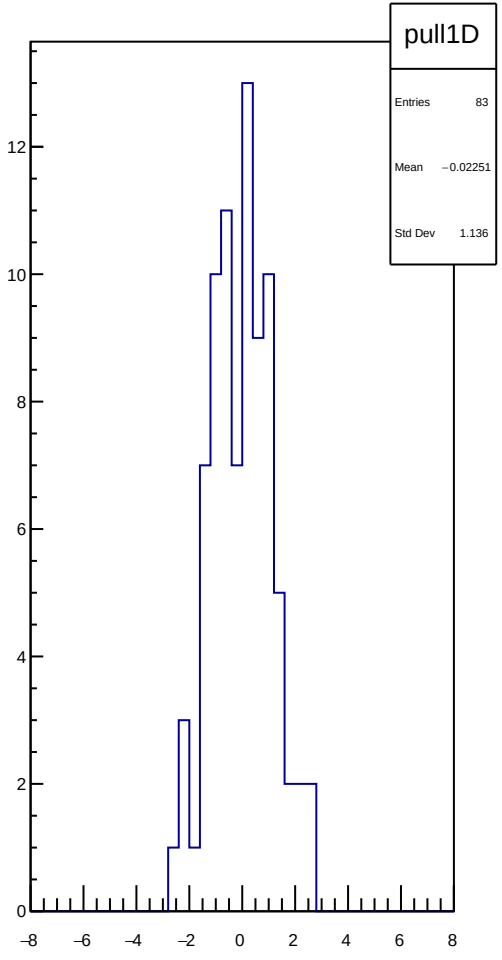

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 104.3 / 82
p0 −2.659 ± 1.46
pull
Entries 83
Mean 101.7
Std Dev 0

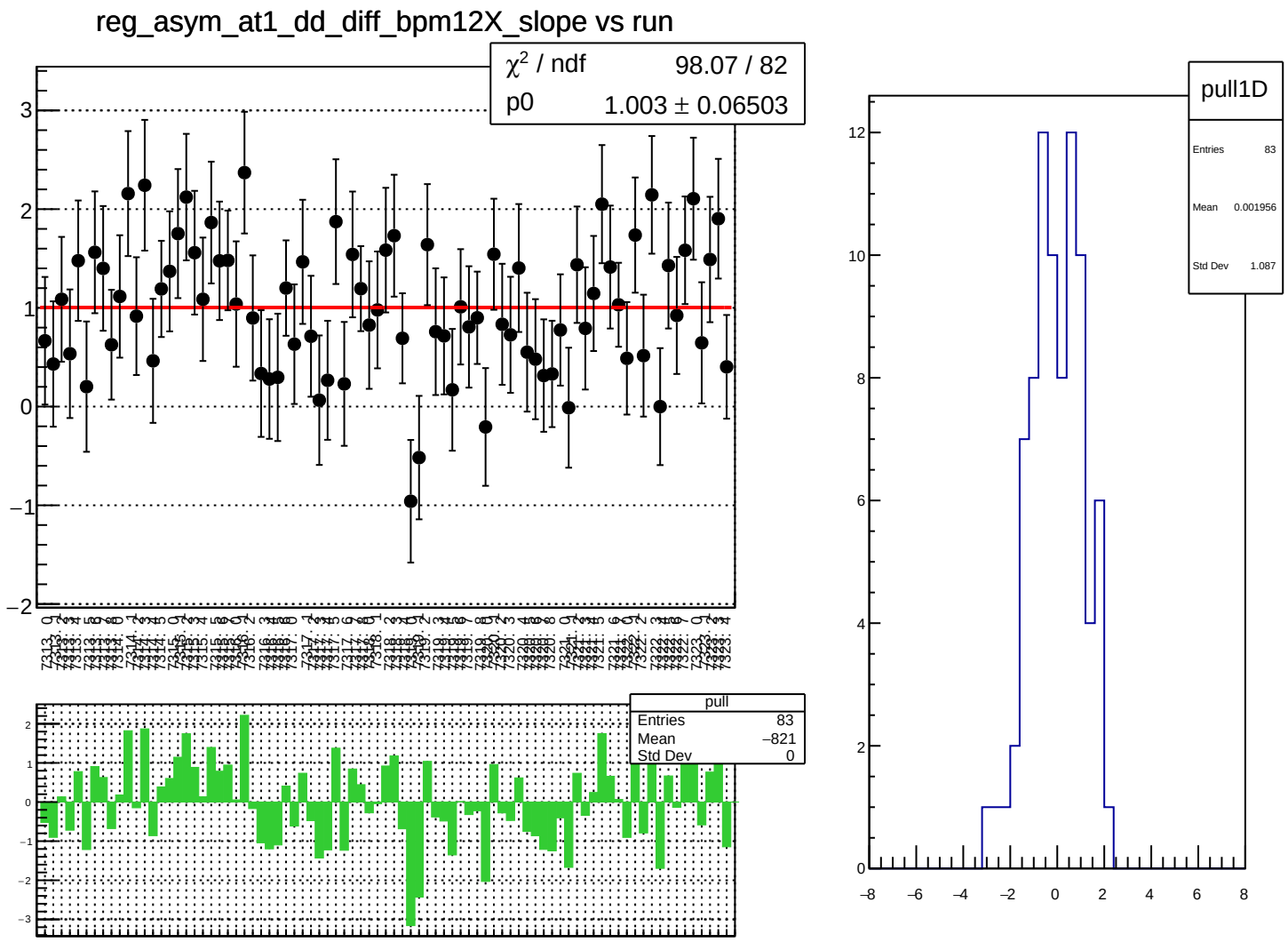

pull1D
Entries 83
Mean 0.01289
Std Dev 1.121

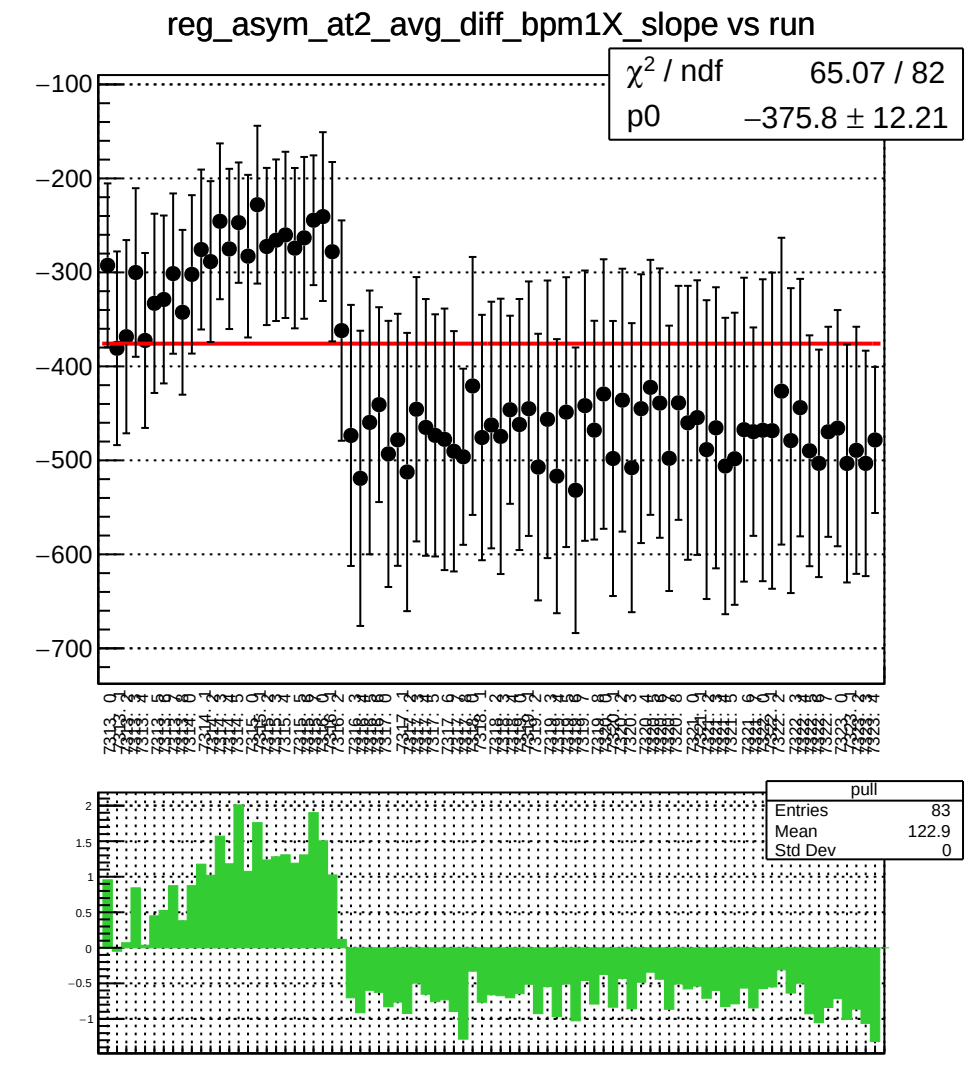

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 86.3 / 82
p0 22.03 ± 1.801
pull
Entries 83
Mean 153.2
Std Dev 0

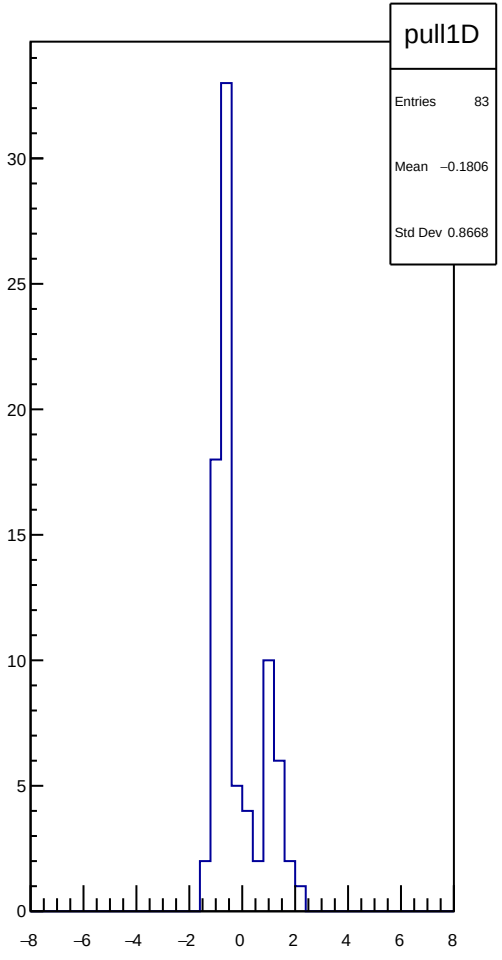

pull1D
Entries 83
Mean 0.07793
Std Dev 1.017

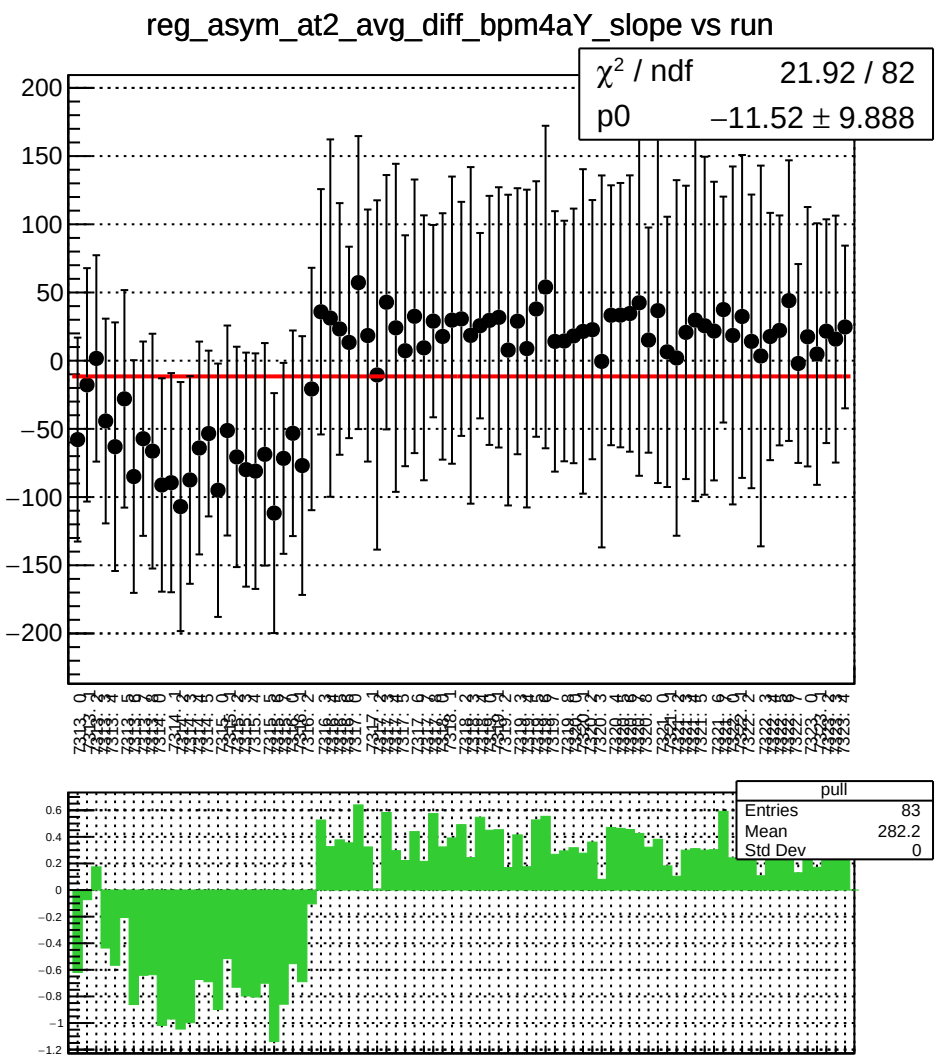

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.2 / 82
p0 3.282 ± 1.58
pull
Entries 83
Mean 83.97
Std Dev 0

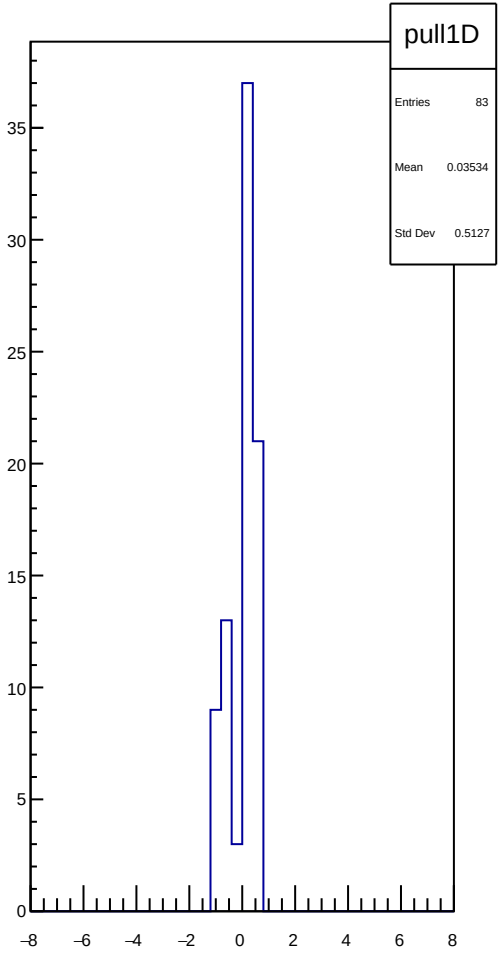

pull1D
Entries 83
Mean −0.02251
Std Dev 1.136

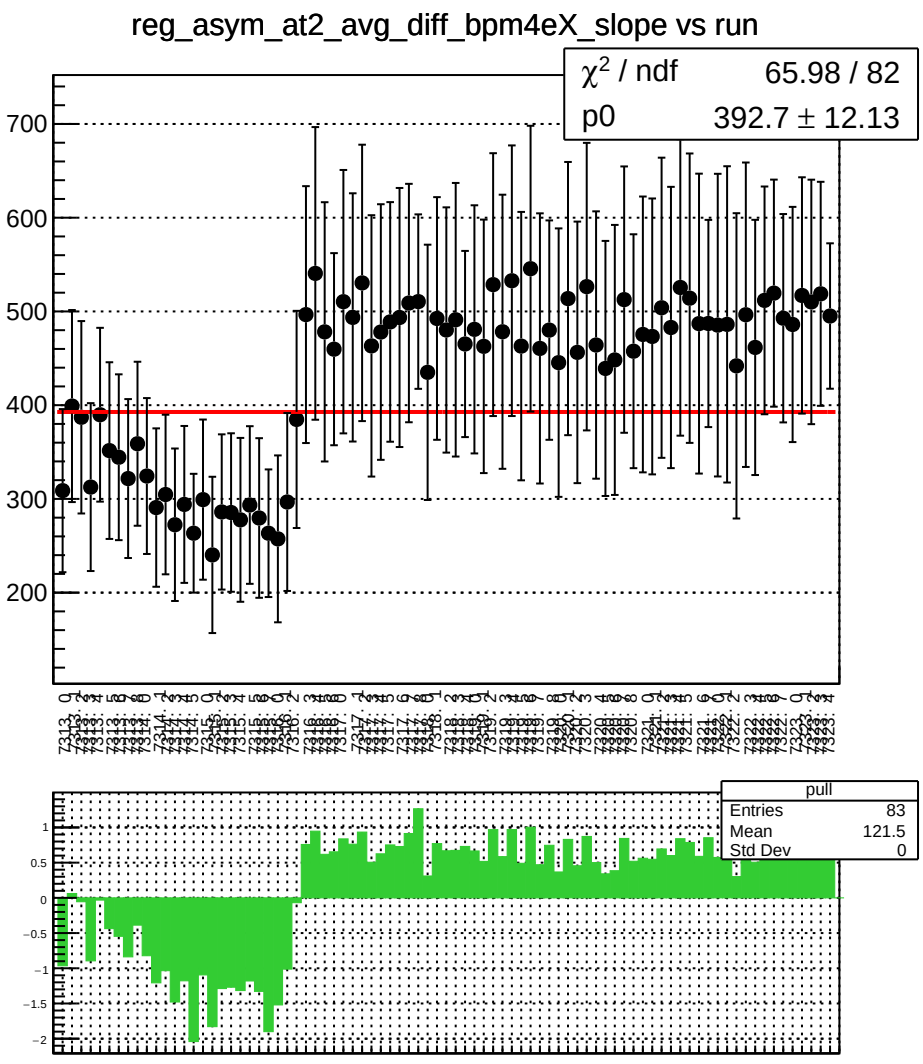

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 98.07 / 82
p0 1.003 ± 0.06503
pull
Entries 83
Mean −821
Std Dev 0
pull1D
Entries 83
Mean 0.001956
Std Dev 1.087

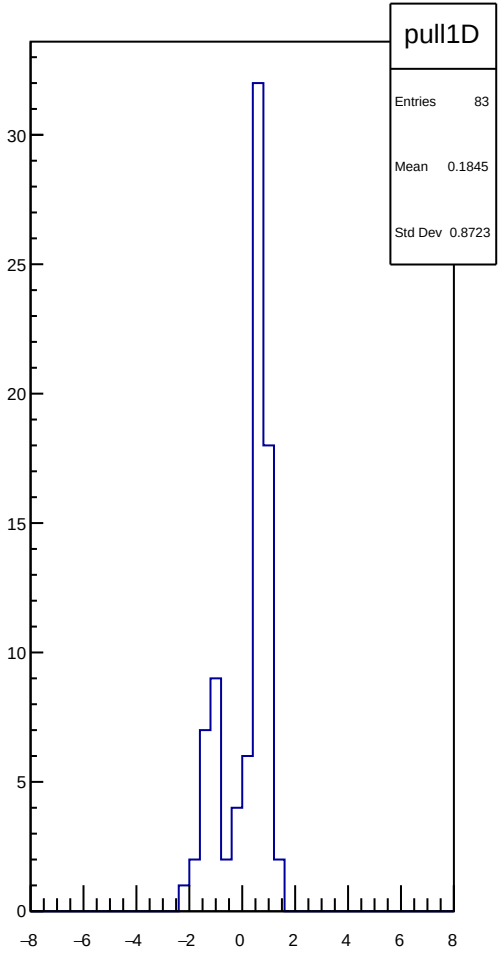

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 65.07 / 82
p0 −375.8 ± 12.21
pull
Entries 83
Mean 122.9
Std Dev 0

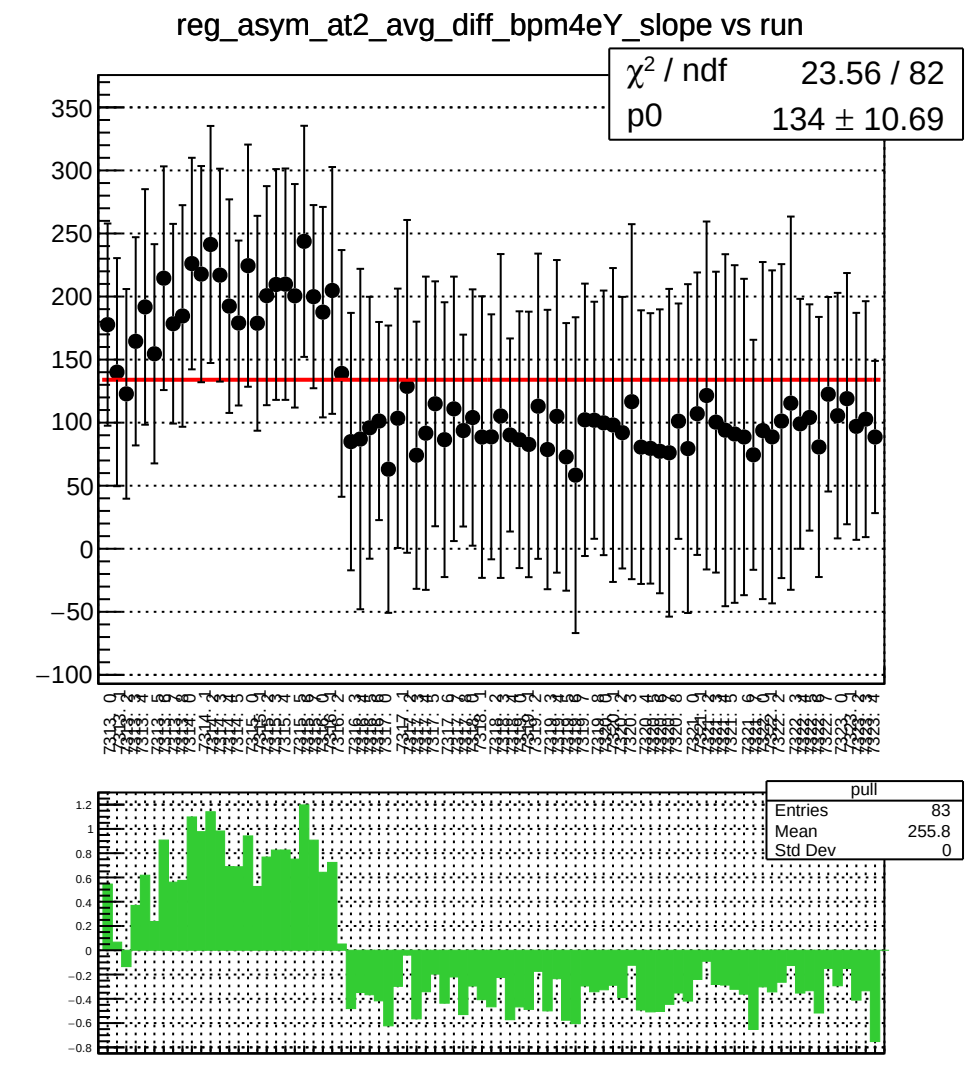

pull1D
Entries 83
Mean −0.1806
Std Dev 0.8668

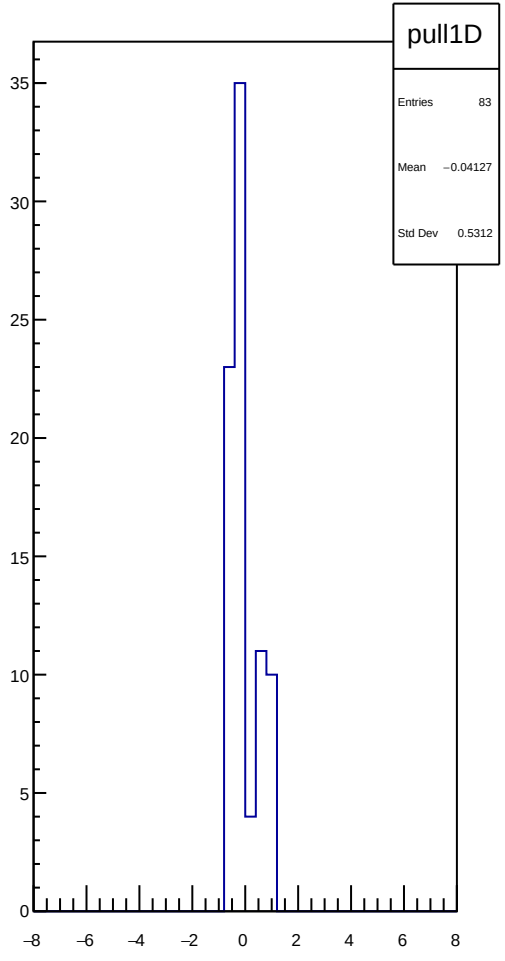

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.92 / 82
p0 −11.52 ± 9.888
pull
Entries 83
Mean 282.2
Std Dev 0

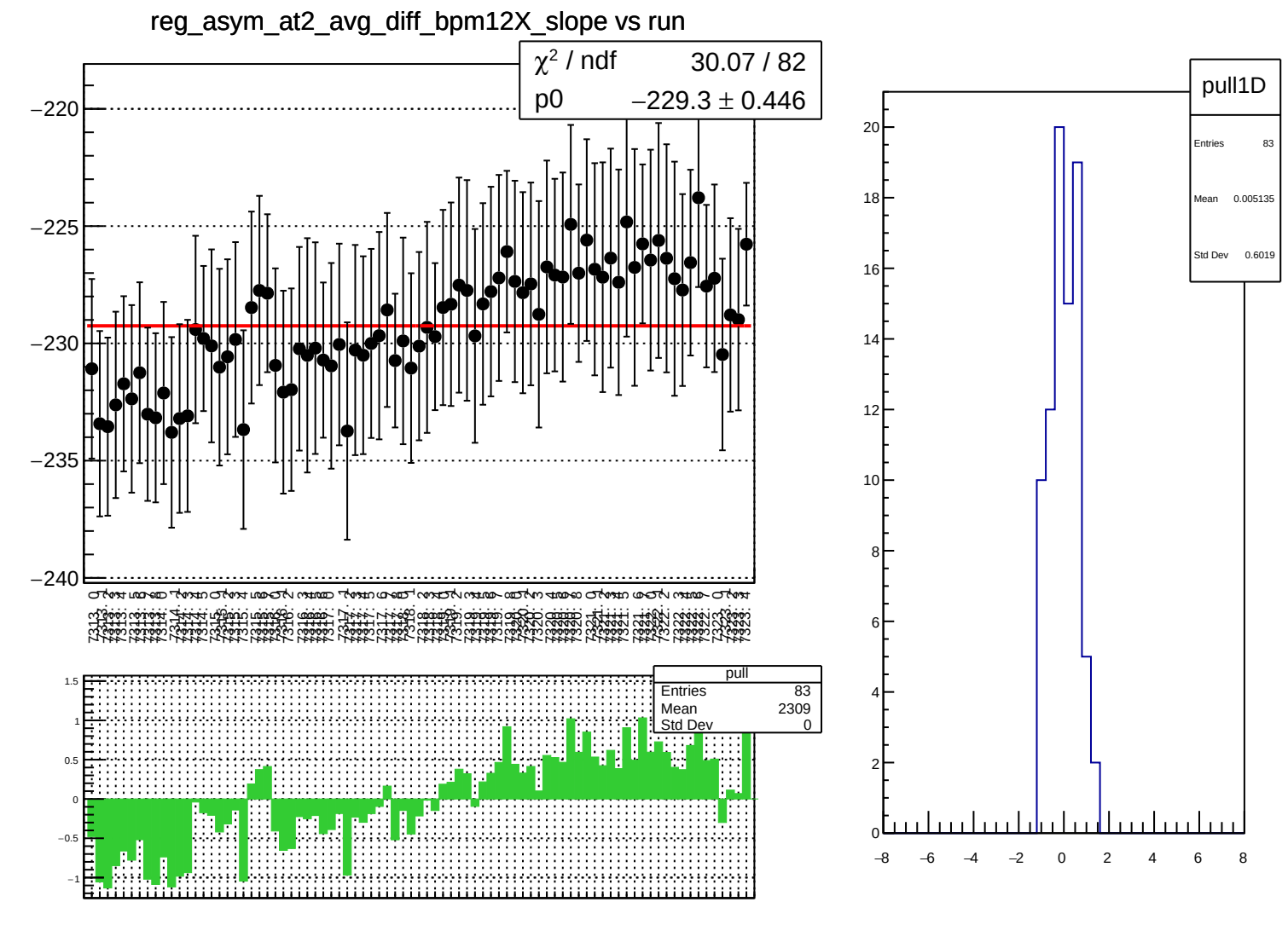

pull1D
Entries 83
Mean 0.03534
Std Dev 0.5127

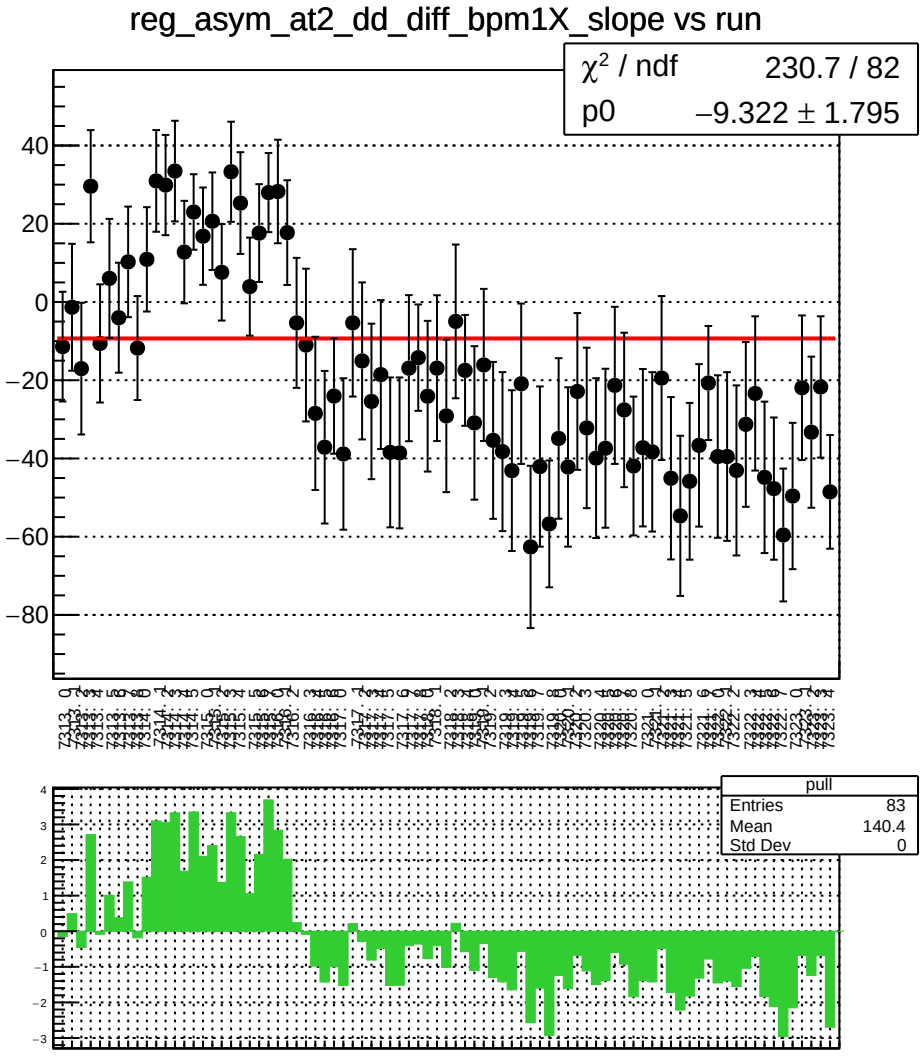

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.98 / 82
p0 392.7 ± 12.13
700
600
500
400
300
200
pull
Entries 83
Mean 121.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

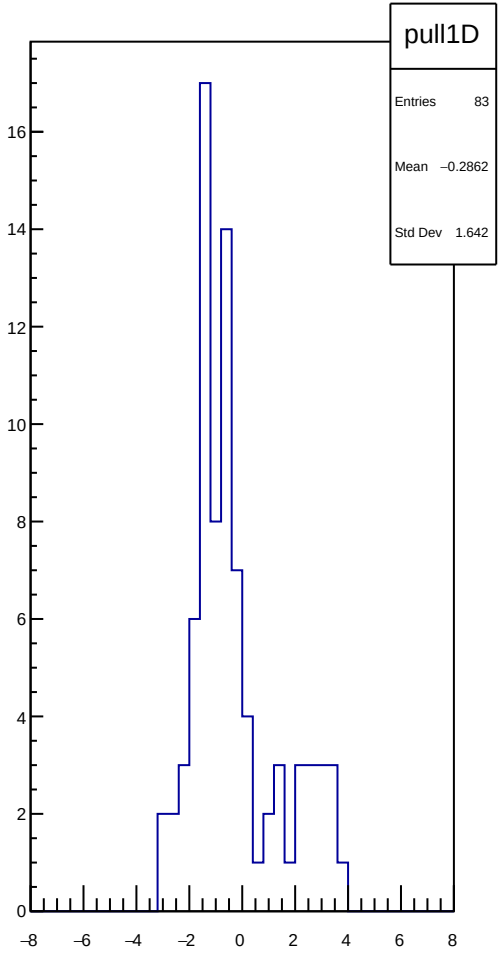

pull1D
Entries 83
Mean 0.1845
Std Dev 0.8723
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

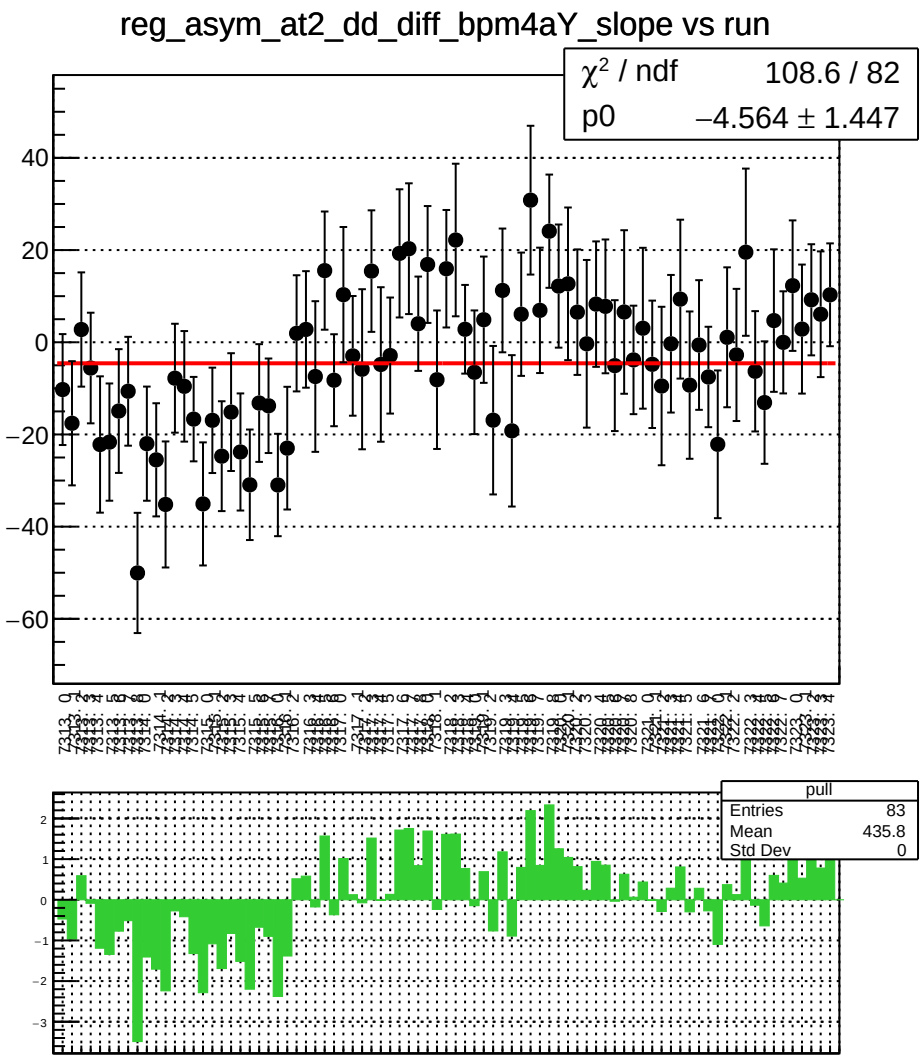

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.56 / 82
p0 134 ± 10.69
pull
Entries 83
Mean 255.8
Std Dev 0

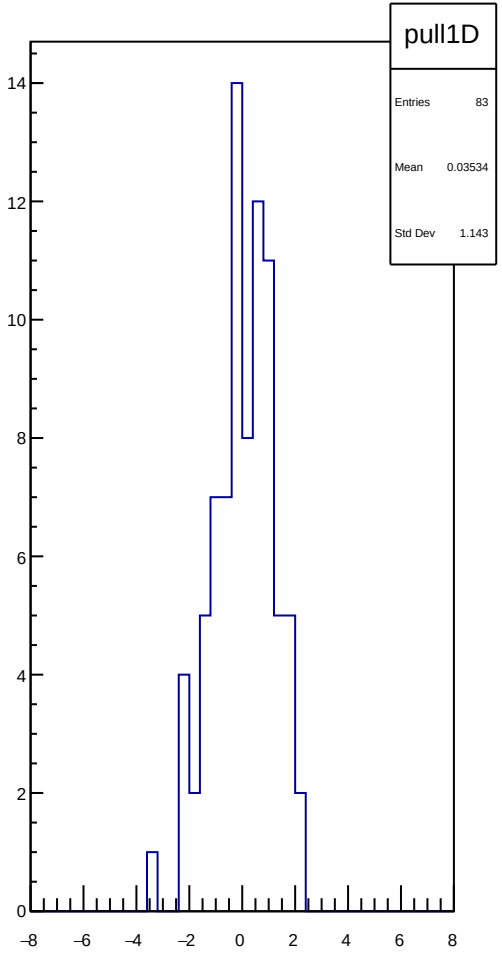

pull1D
Entries 83
Mean −0.04127
Std Dev 0.5312

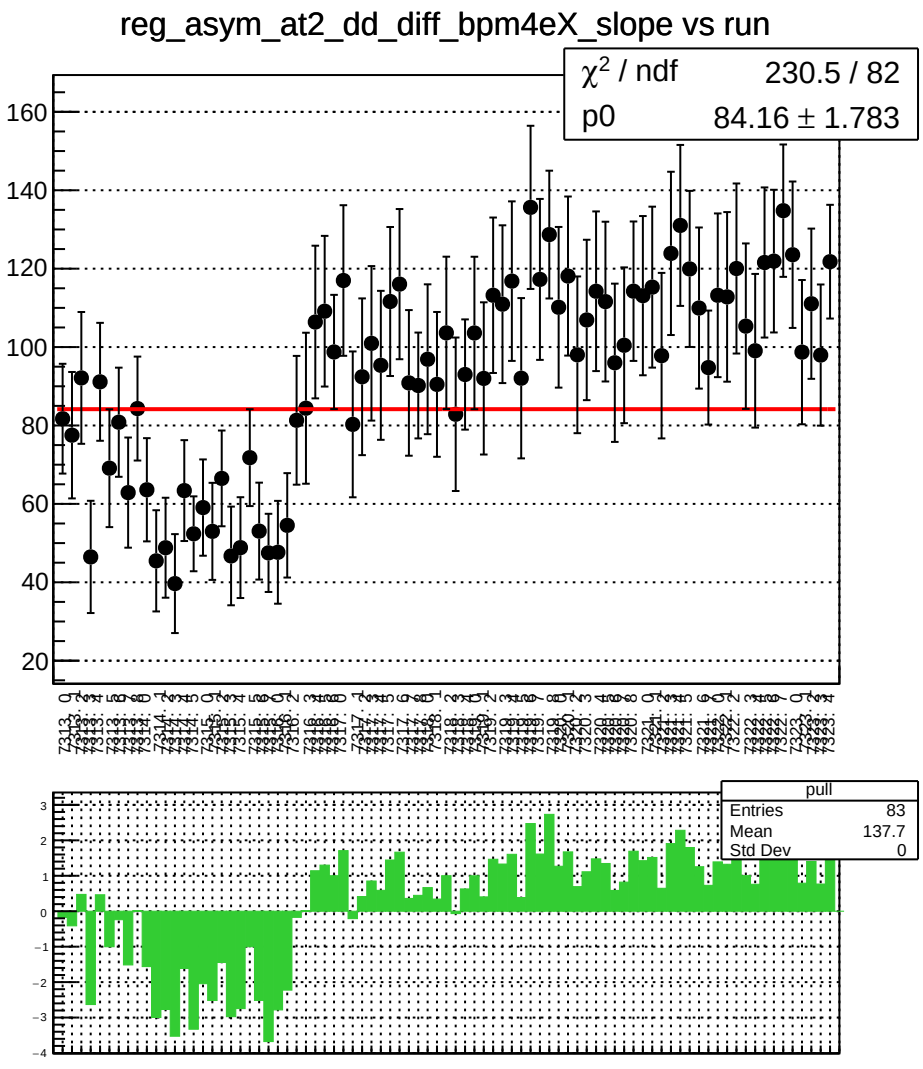

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 30.07 / 82
p0 −229.3 ± 0.446
pull
Entries 83
Mean 2309
Std Dev 0
pull1D
Entries 83
Mean 0.005135
Std Dev 0.6019

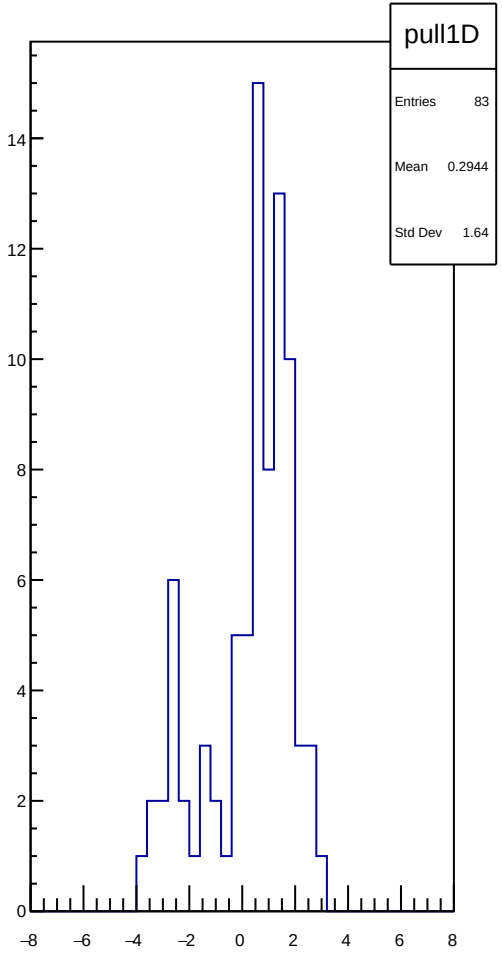

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 230.7 / 82
p0 −9.322 ± 1.795
pull
Entries 83
Mean 140.4
Std Dev 0

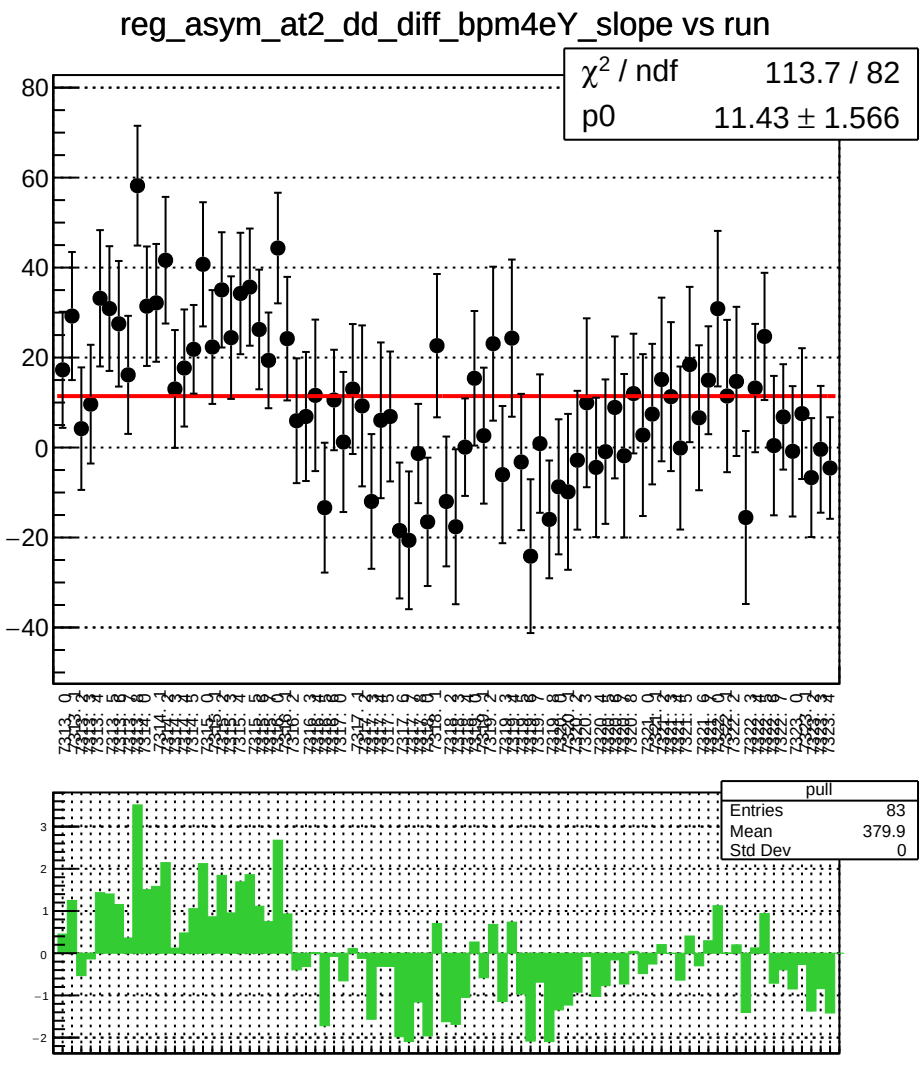

pull1D
Entries 83
Mean −0.2862
Std Dev 1.642

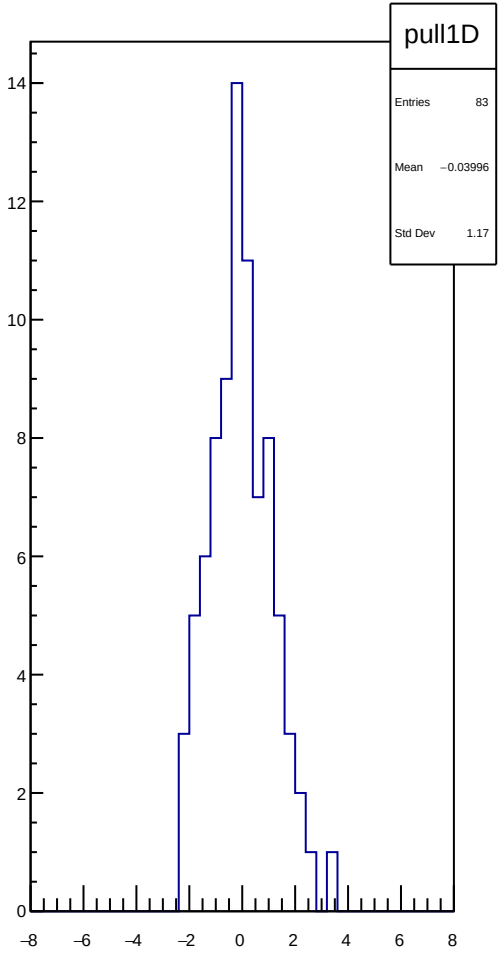

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 108.6 / 82
p0 −4.564 ± 1.447
pull
Entries 83
Mean 435.8
Std Dev 0

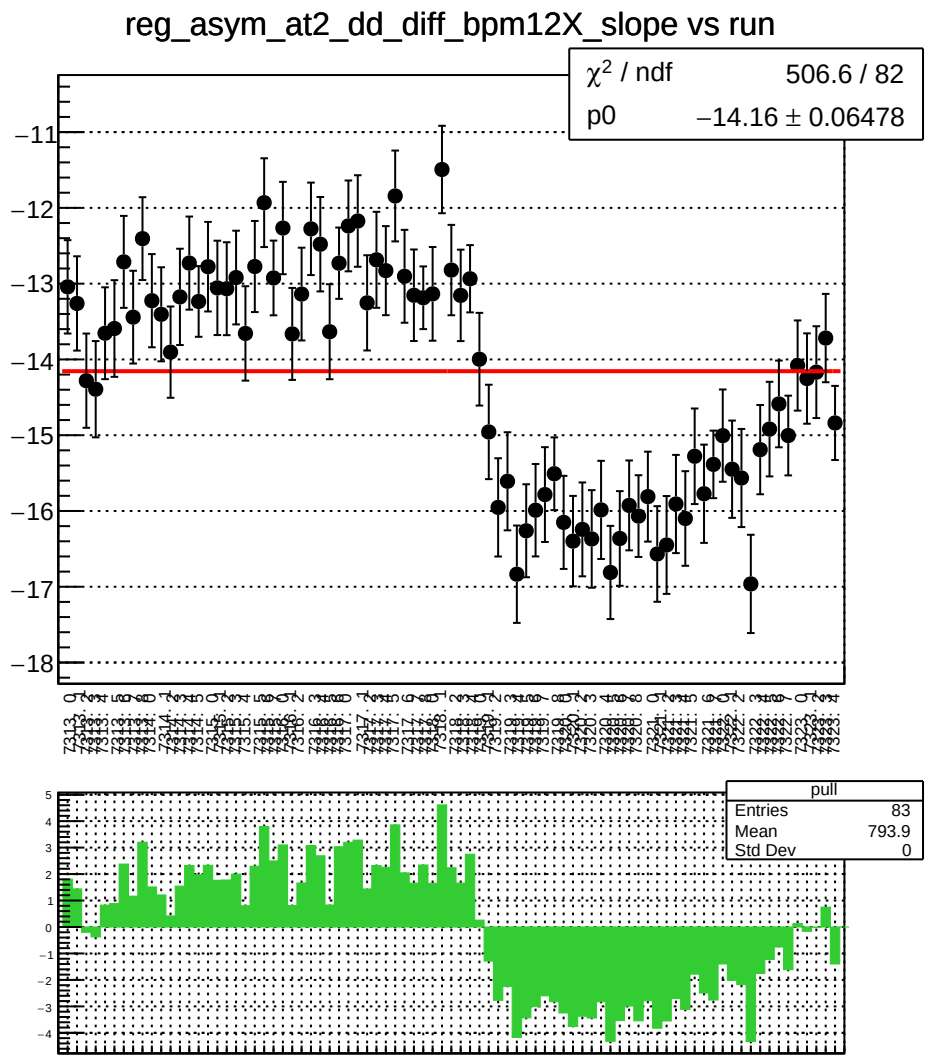

pull1D
Entries 83
Mean 0.03534
Std Dev 1.143

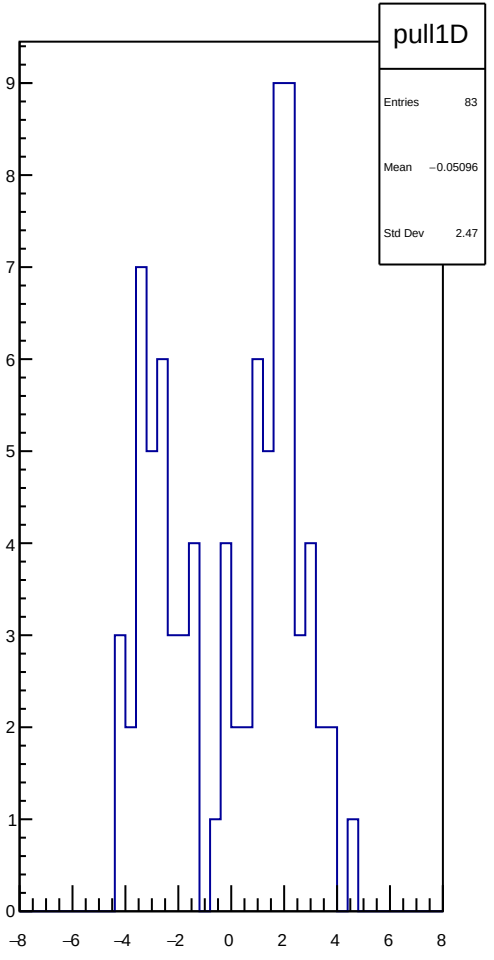

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 230.5 / 82
p0 84.16 ± 1.783
pull
Entries 83
Mean 137.7
Std Dev 0

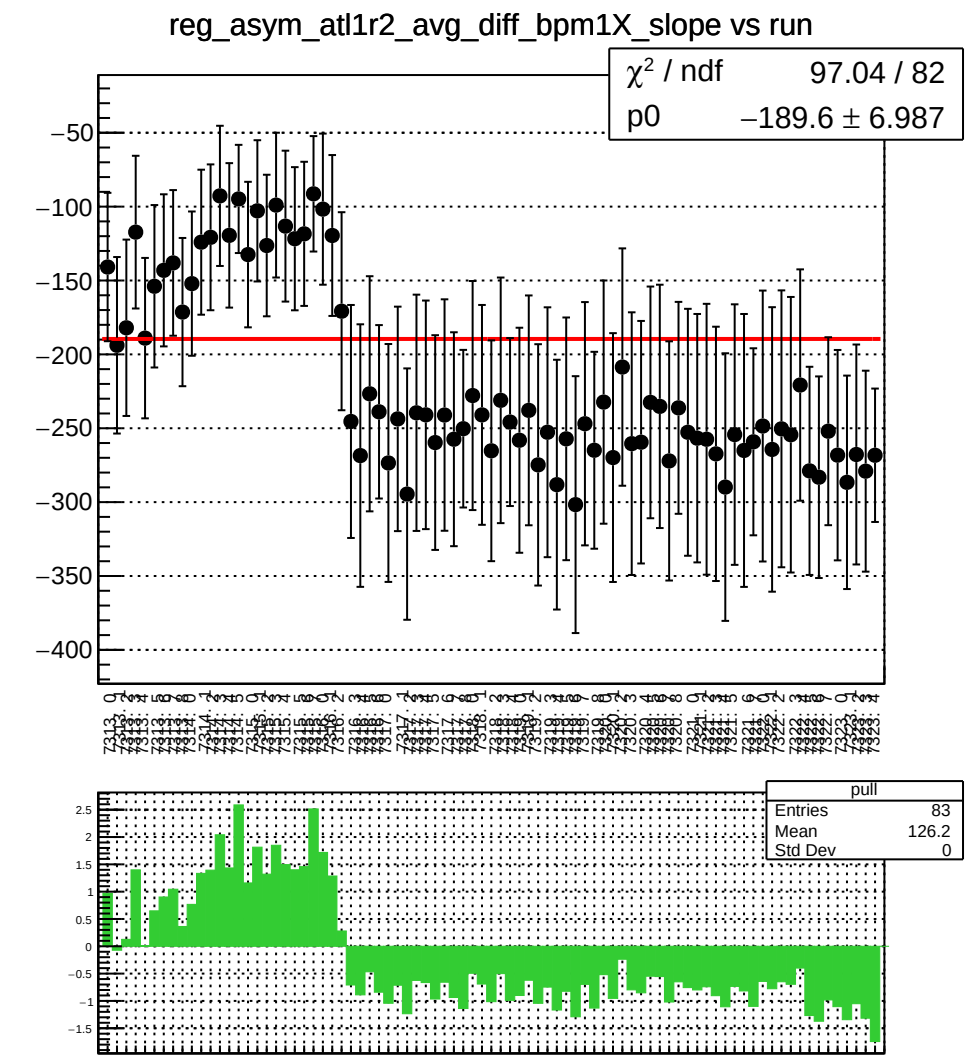

pull1D
Entries 83
Mean 0.2944
Std Dev 1.64

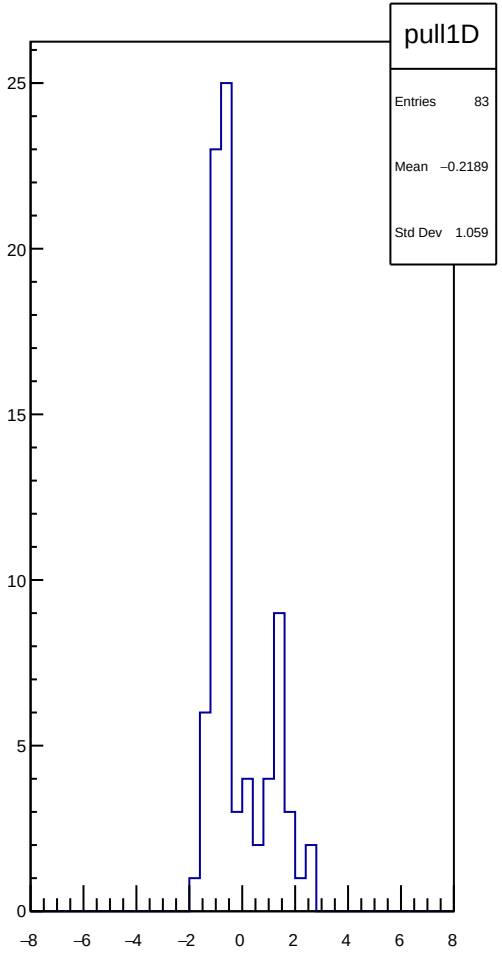

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 113.7 / 82
p0 11.43 ± 1.566
pull
Entries 83
Mean 379.9
Std Dev 0

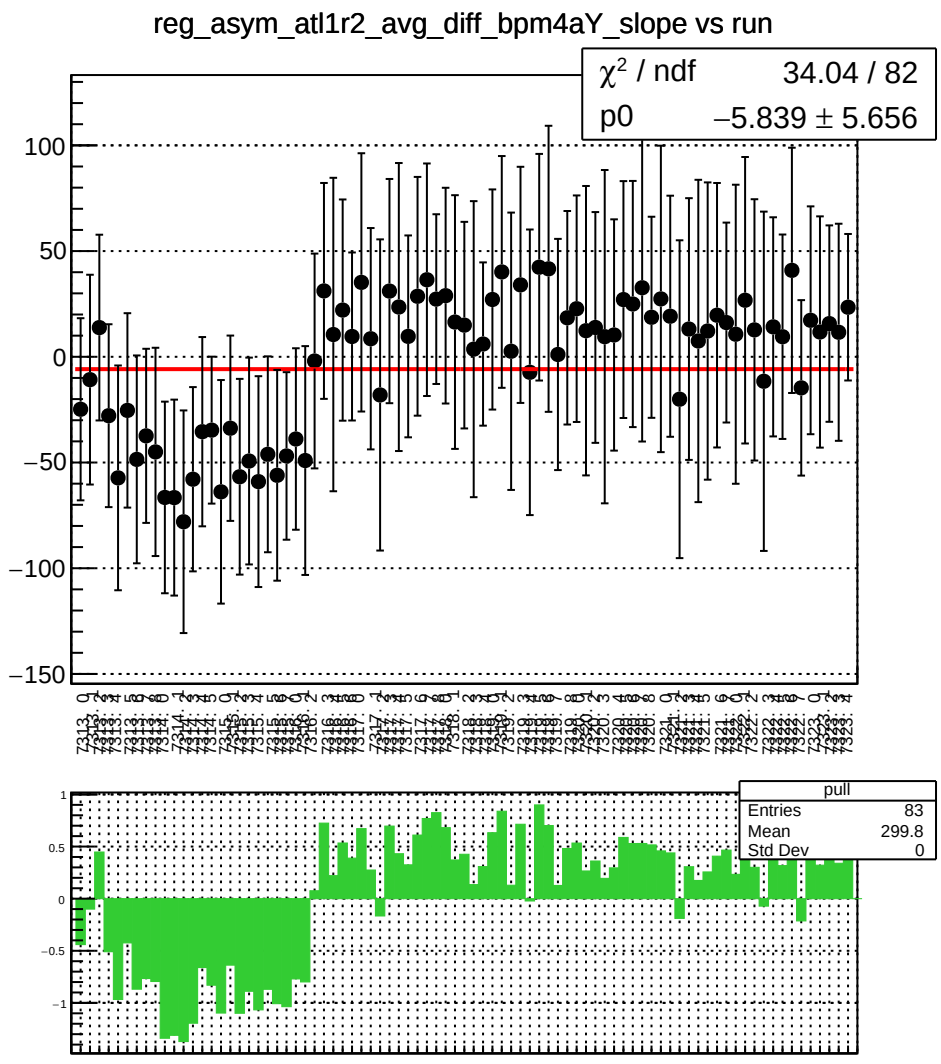

pull1D
Entries 83
Mean −0.03996
Std Dev 1.17

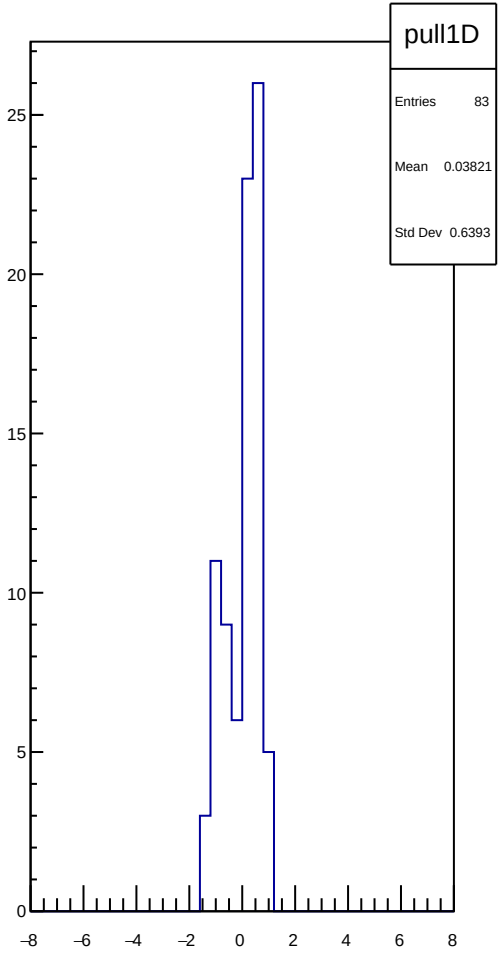

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 506.6 / 82
p0 −14.16 ± 0.06478
pull
Entries 83
Mean 793.9
Std Dev 0

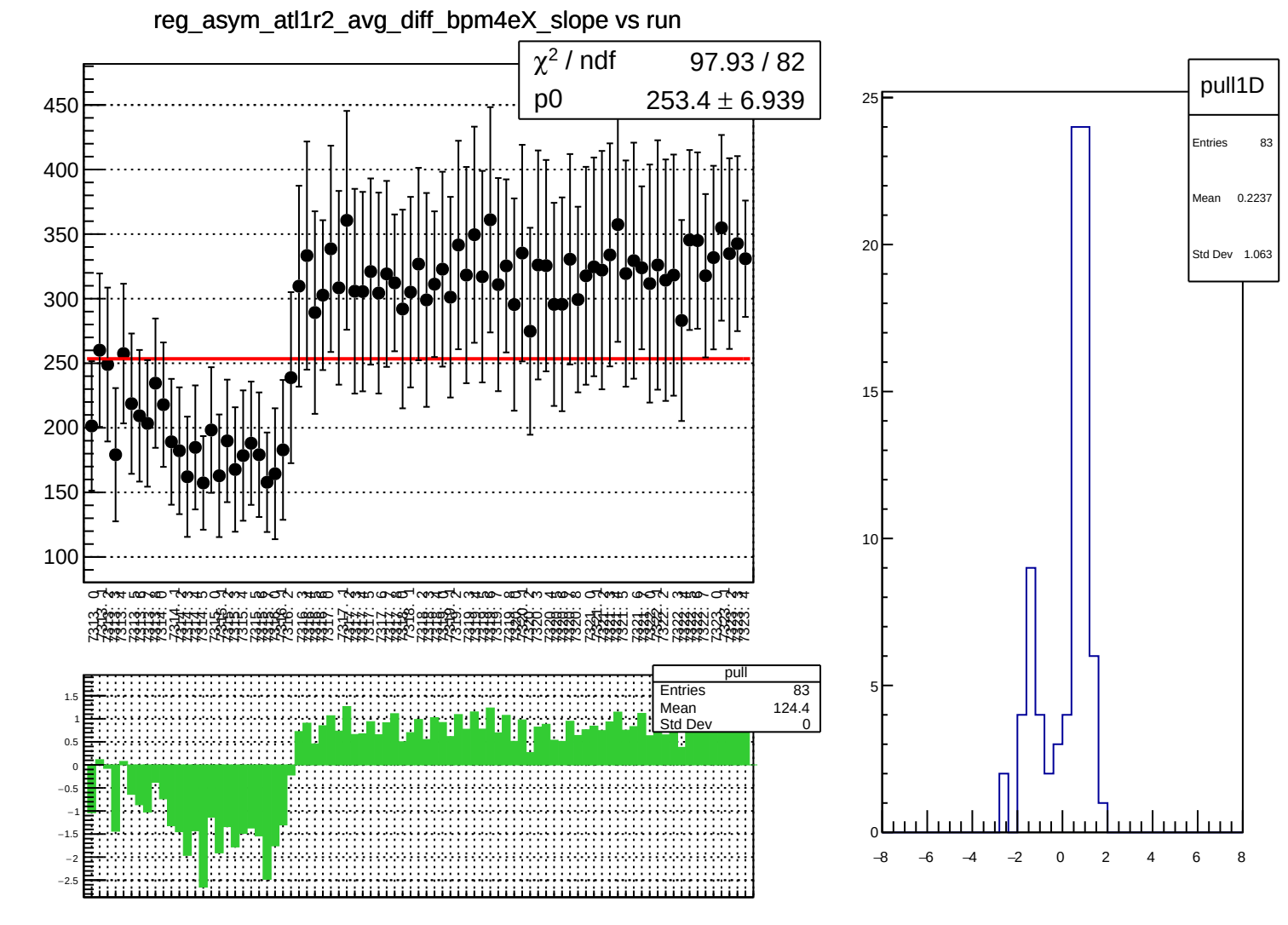

pull1D
Entries 83
Mean −0.05096
Std Dev 2.47

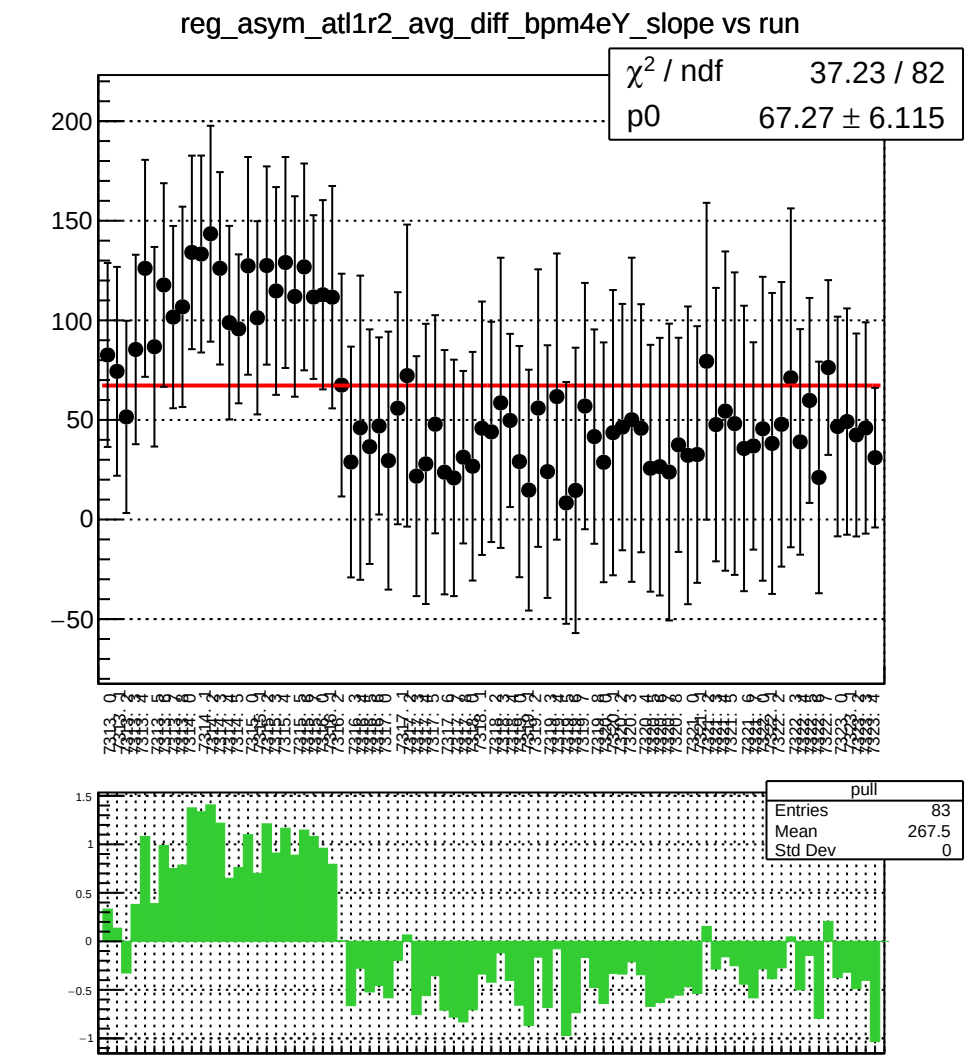

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 97.04 / 82
p0 −189.6 ± 6.987
pull
Entries 83
Mean 126.2
Std Dev 0

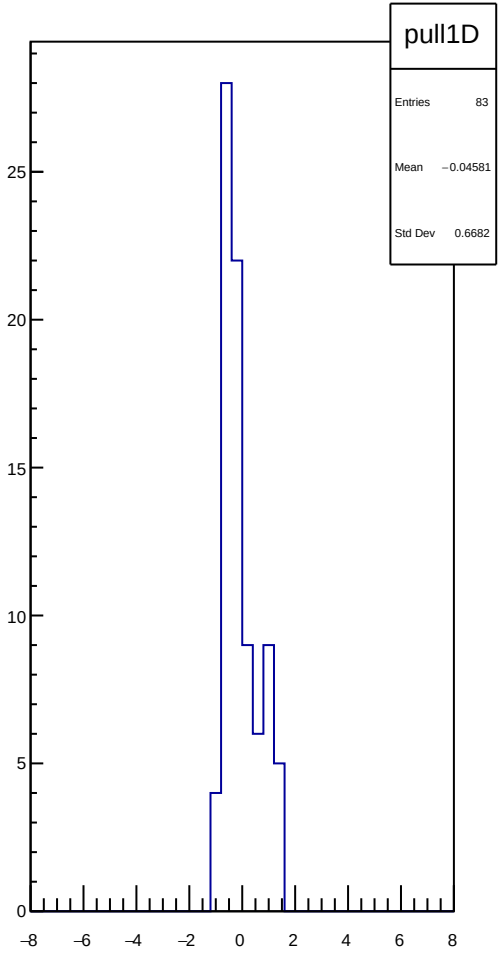

pull1D
Entries 83
Mean −0.2189
Std Dev 1.059

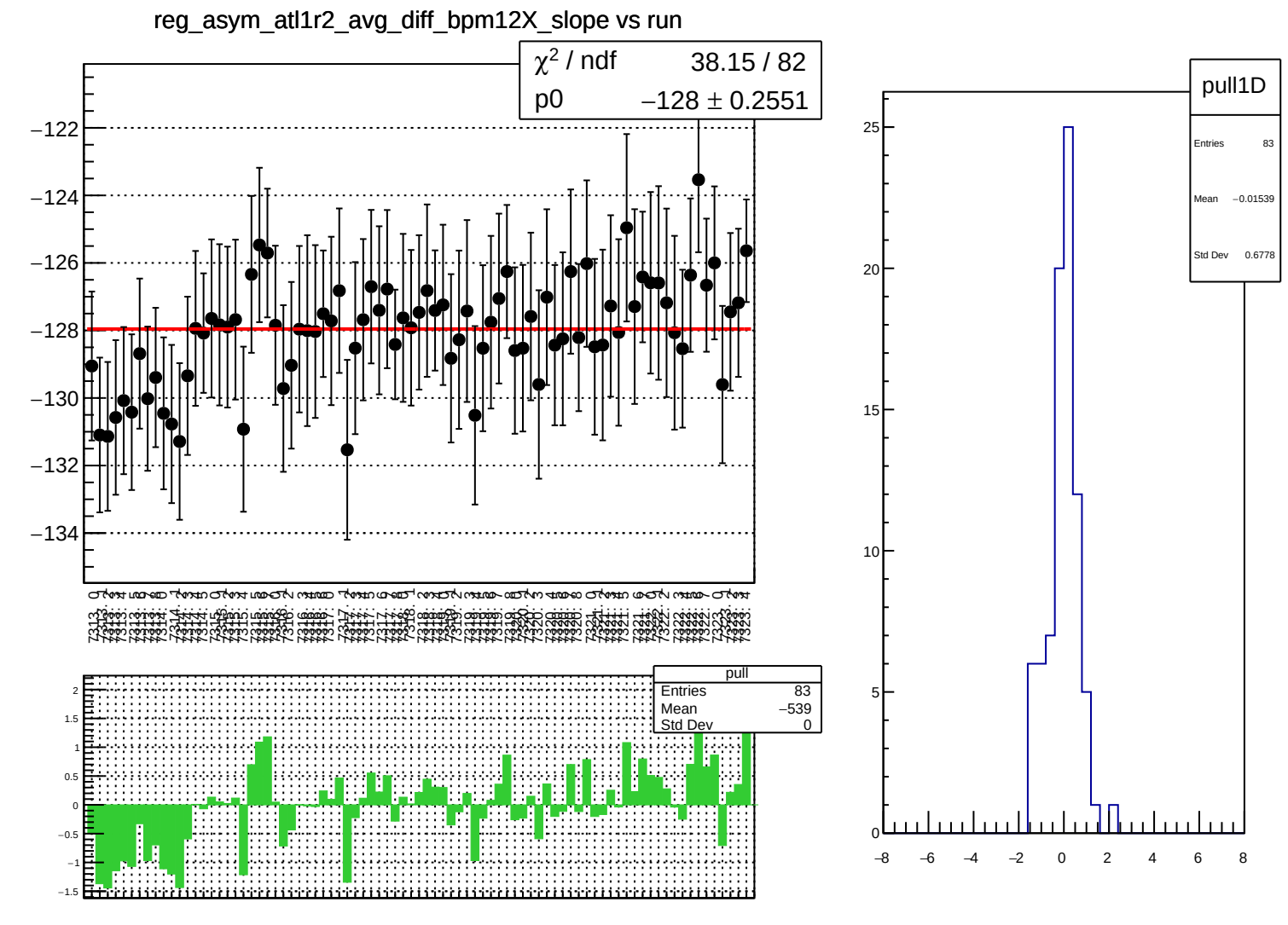

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.04 / 82
p0 −5.839 ± 5.656
pull
Entries 83
Mean 299.8
Std Dev 0

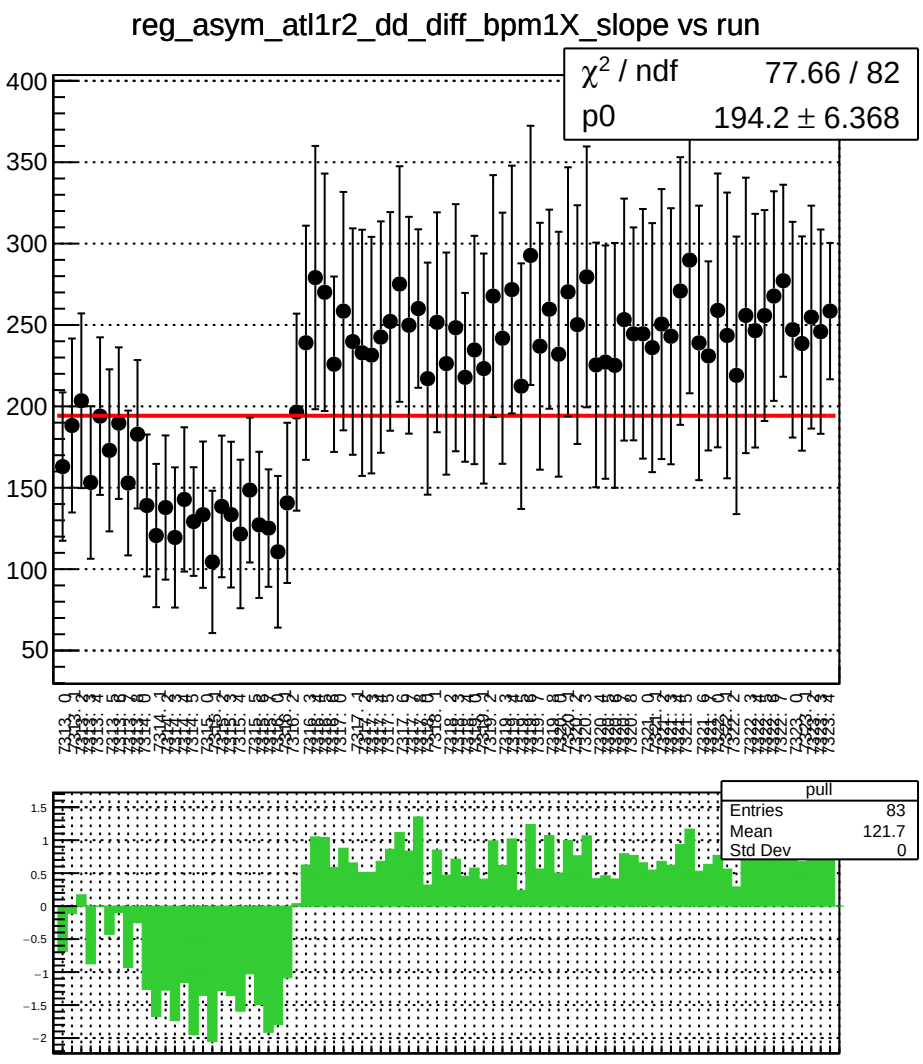

pull1D
Entries 83
Mean 0.03821
Std Dev 0.6393

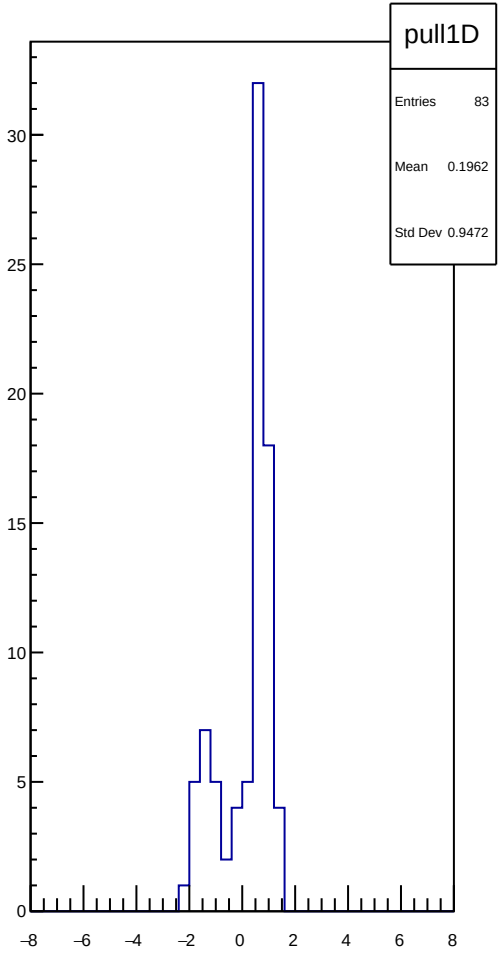

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.93 / 82
p0 253.4 ± 6.939
pull
Entries 83
Mean 124.4
Std Dev 0
pull1D
Entries 83
Mean 0.2237
Std Dev 1.063

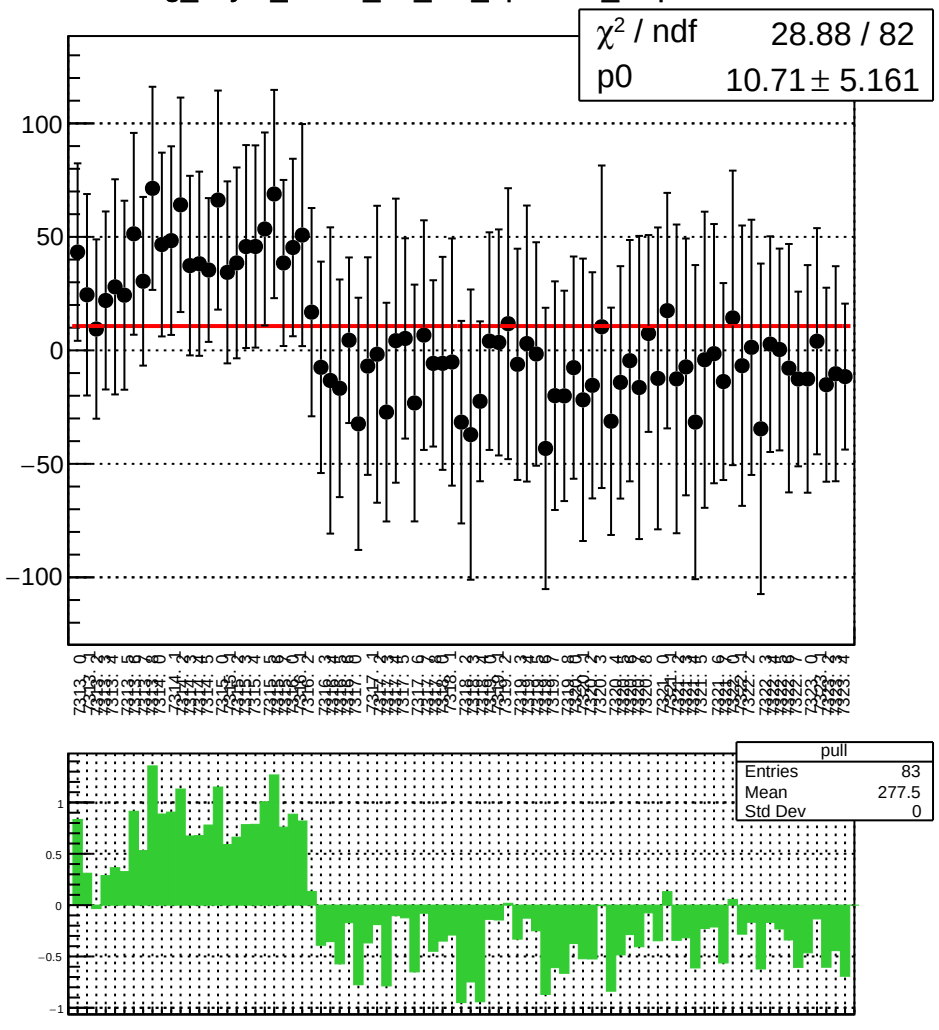

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 37.23 / 82
p0 67.27 ± 6.115
pull
Entries 83
Mean 267.5
Std Dev 0

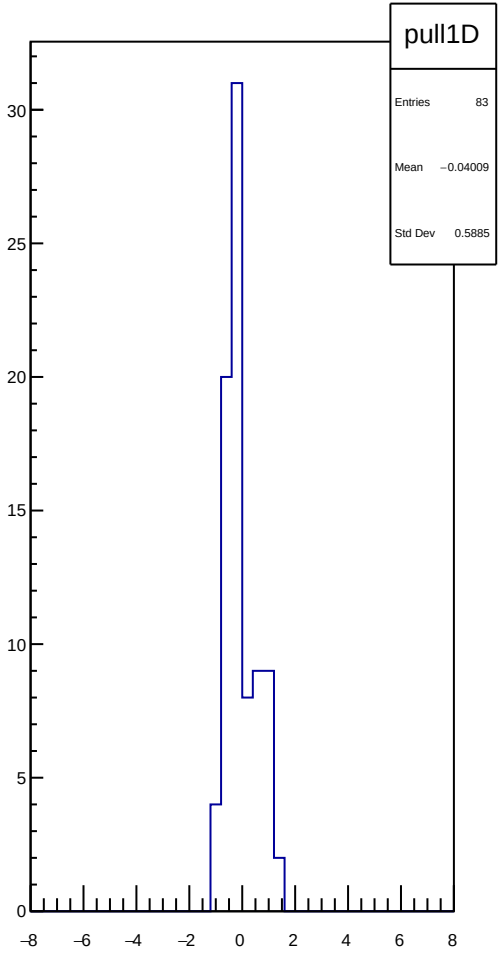

pull1D
Entries 83
Mean −0.04581
Std Dev 0.6682

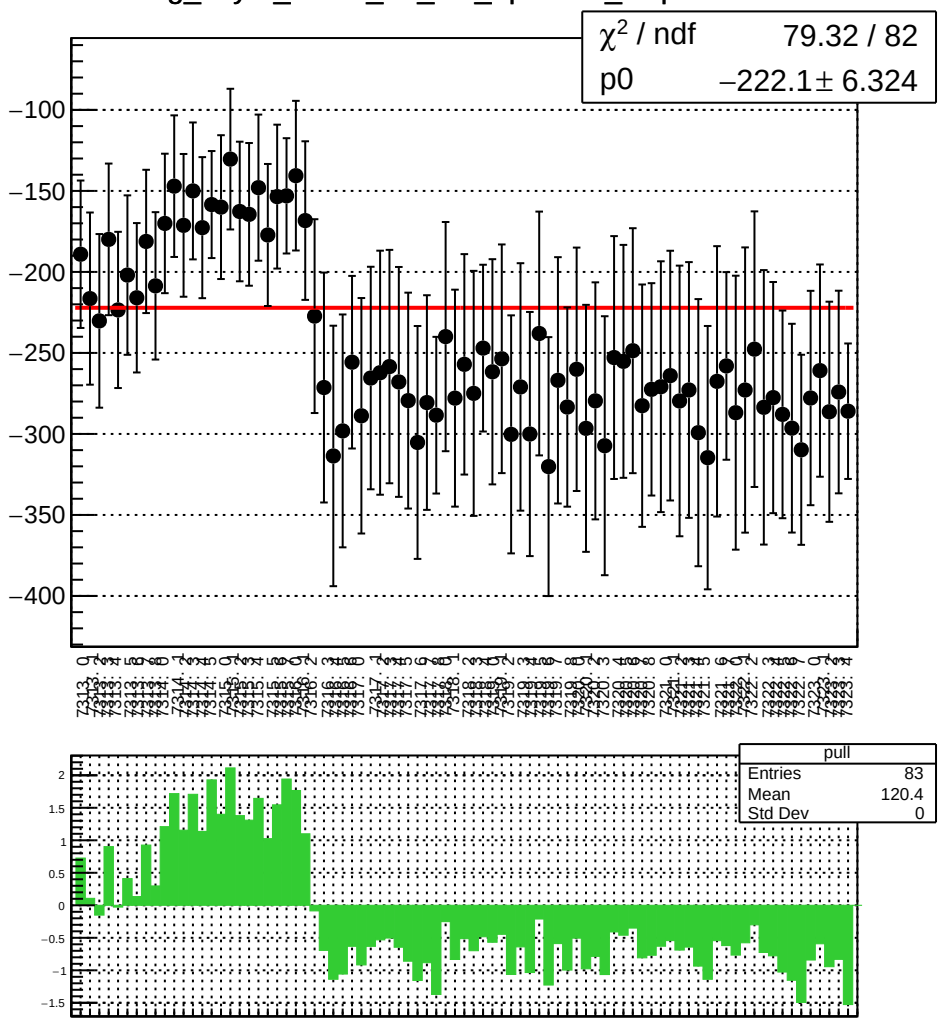

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 38.15 / 82
p0 −128 ± 0.2551
−122
−124
−126
−128
−130
−132
−134
pull
Entries 83
Mean −539
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.01539
Std Dev 0.6778
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

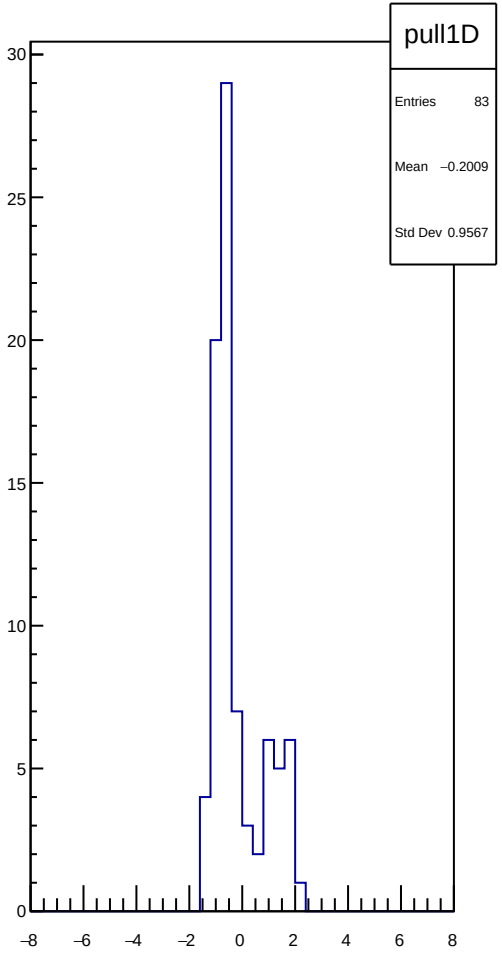

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 77.66 / 82
p0 194.2 ± 6.368
pull
Entries 83
Mean 121.7
Std Dev 0

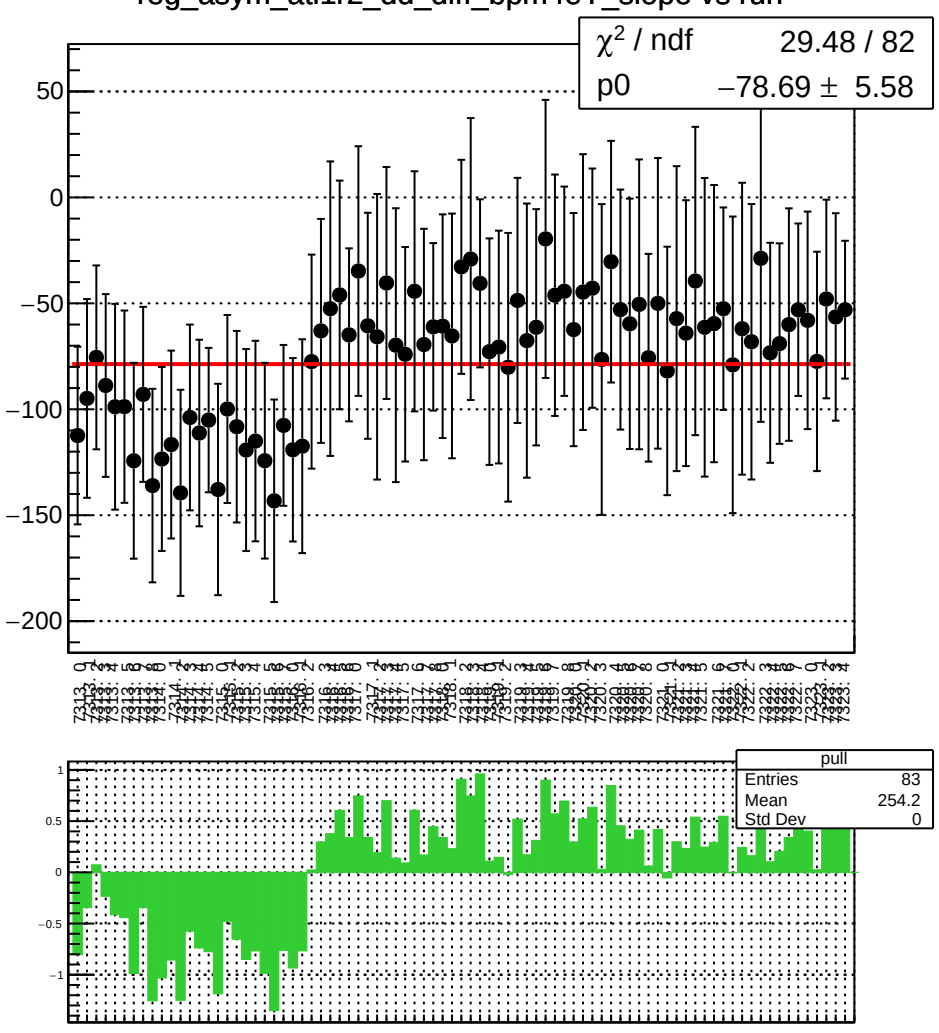

pull1D
Entries 83
Mean 0.1962
Std Dev 0.9472

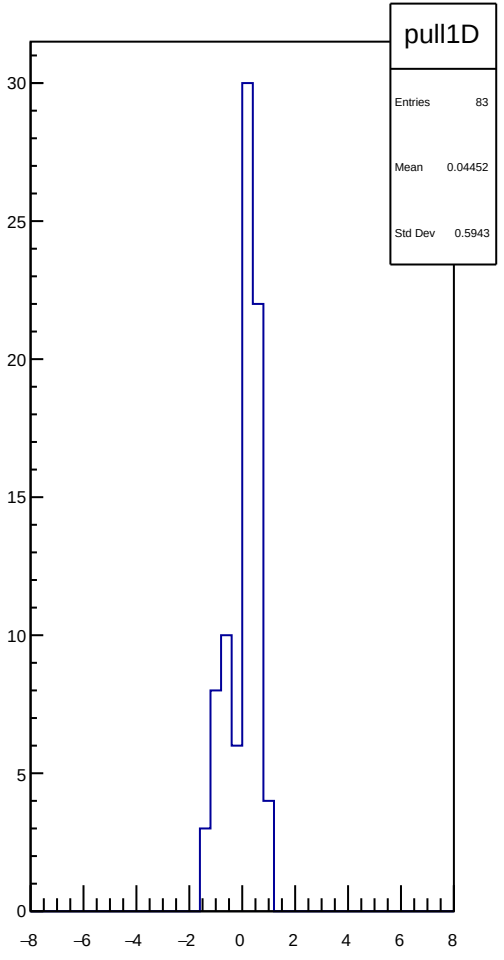

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.88 / 82
p0 10.71 ± 5.161
pull
Entries 83
Mean 277.5
Std Dev 0

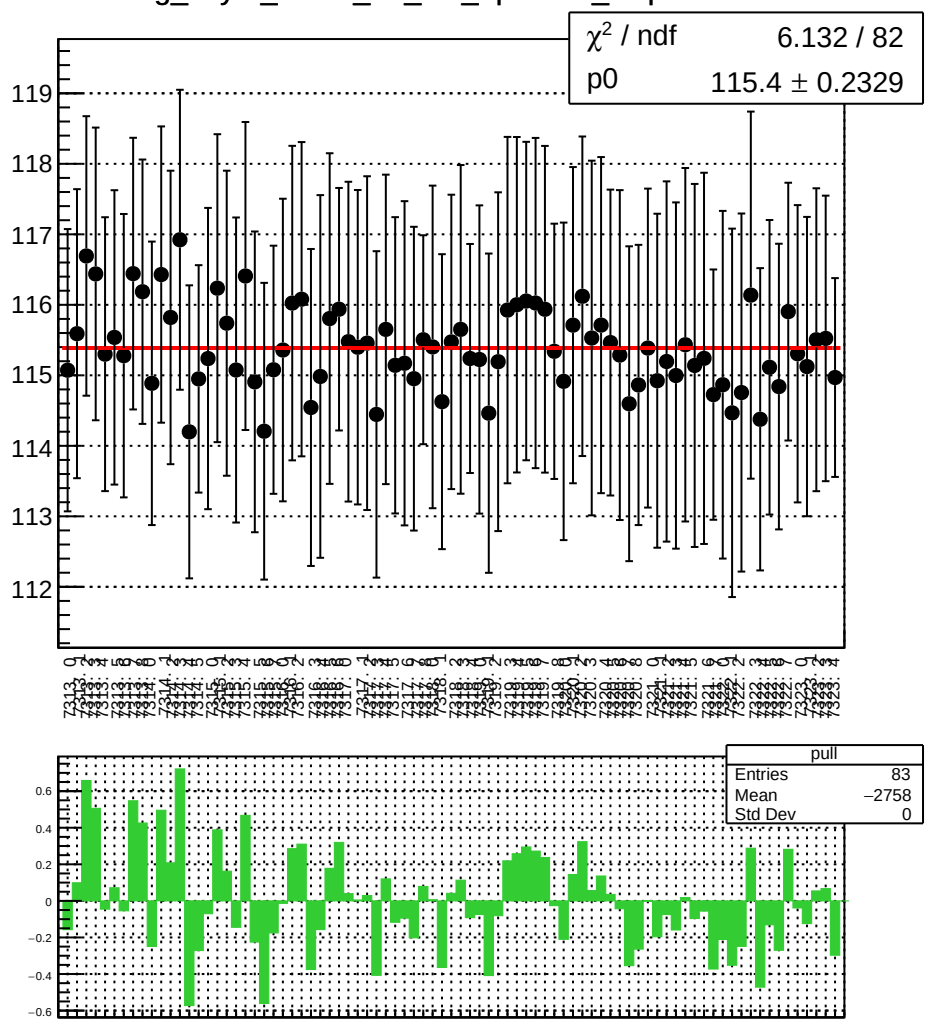

pull1D
Entries 83
Mean −0.04009
Std Dev 0.5885

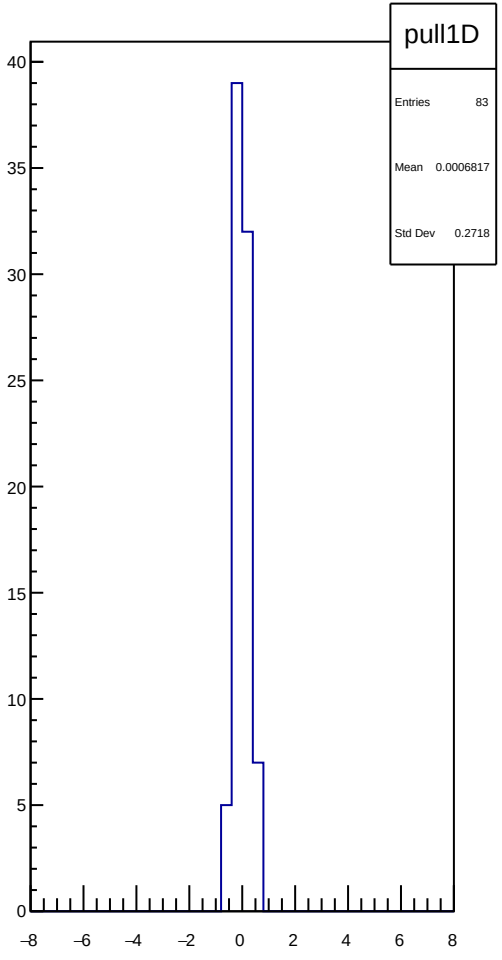

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.32 / 82
p0 −222.1± 6.324
pull
Entries 83
Mean 120.4
Std Dev 0

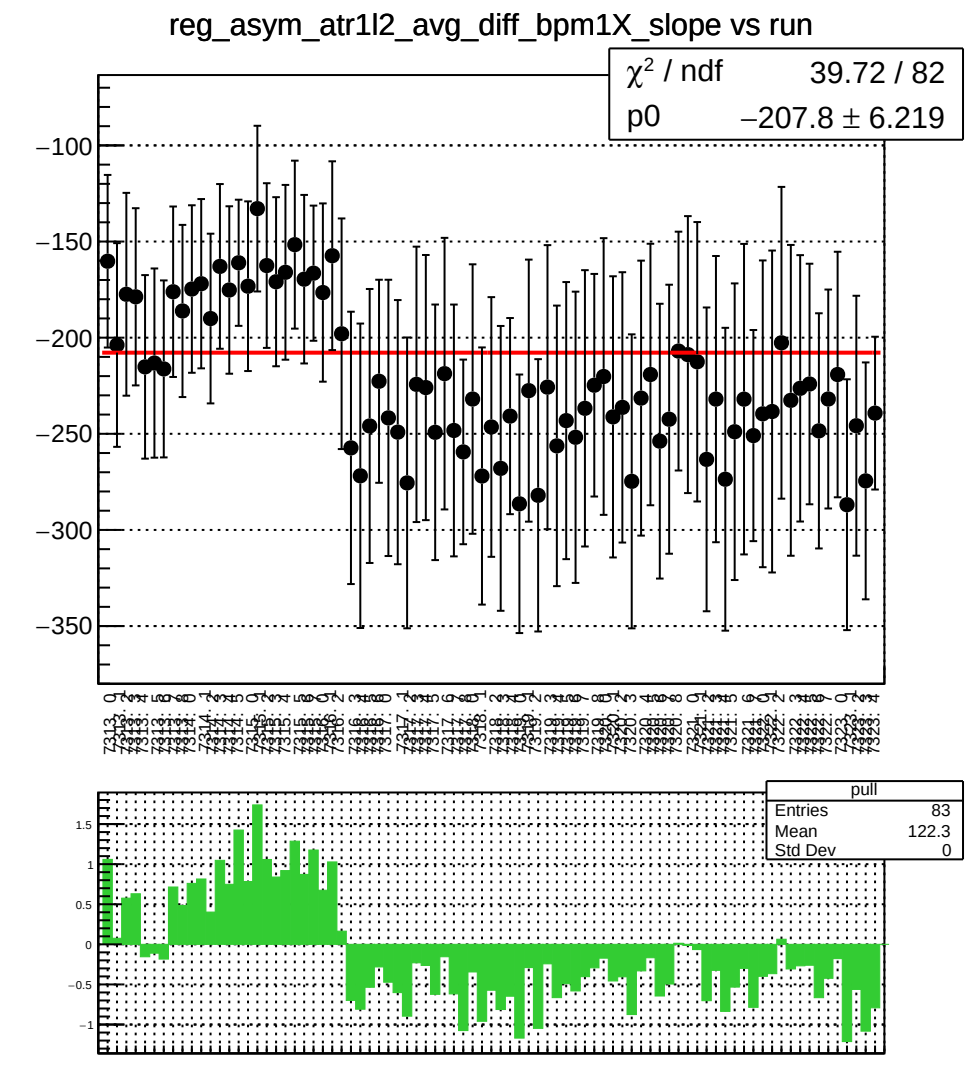

pull1D
Entries 83
Mean −0.2009
Std Dev 0.9567

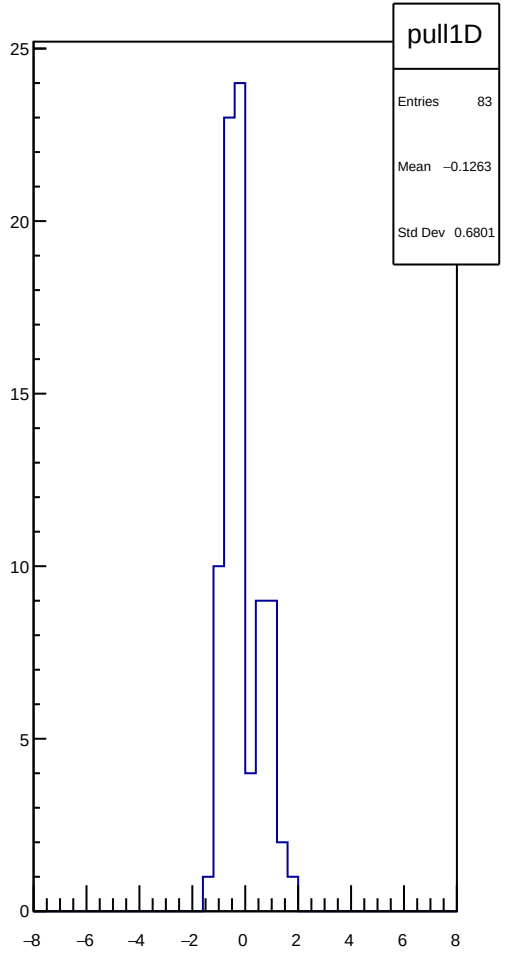

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.48 / 82
p0 −78.69 ± 5.58
pull
Entries 83
Mean 254.2
Std Dev 0

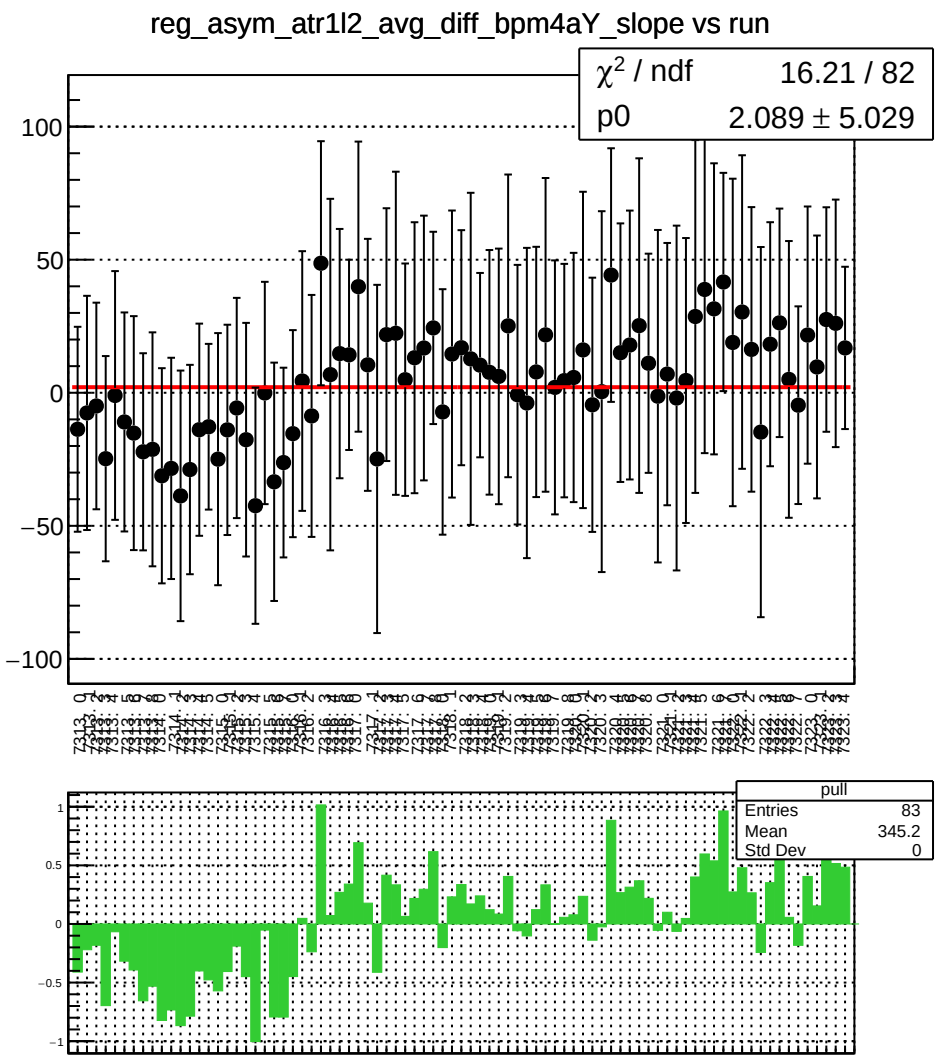

pull1D
Entries 83
Mean 0.04452
Std Dev 0.5943

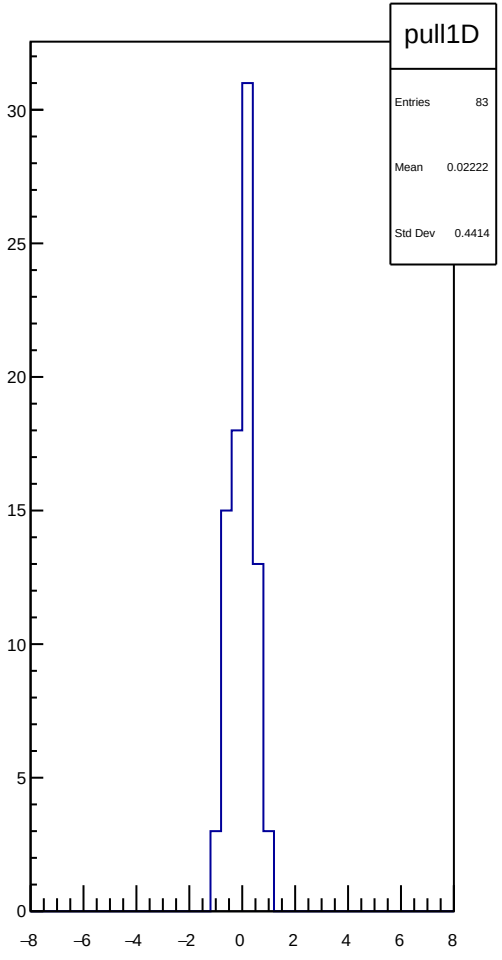

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 6.132 / 82
p0 115.4 ± 0.2329
pull
Entries 83
Mean −2758
Std Dev 0

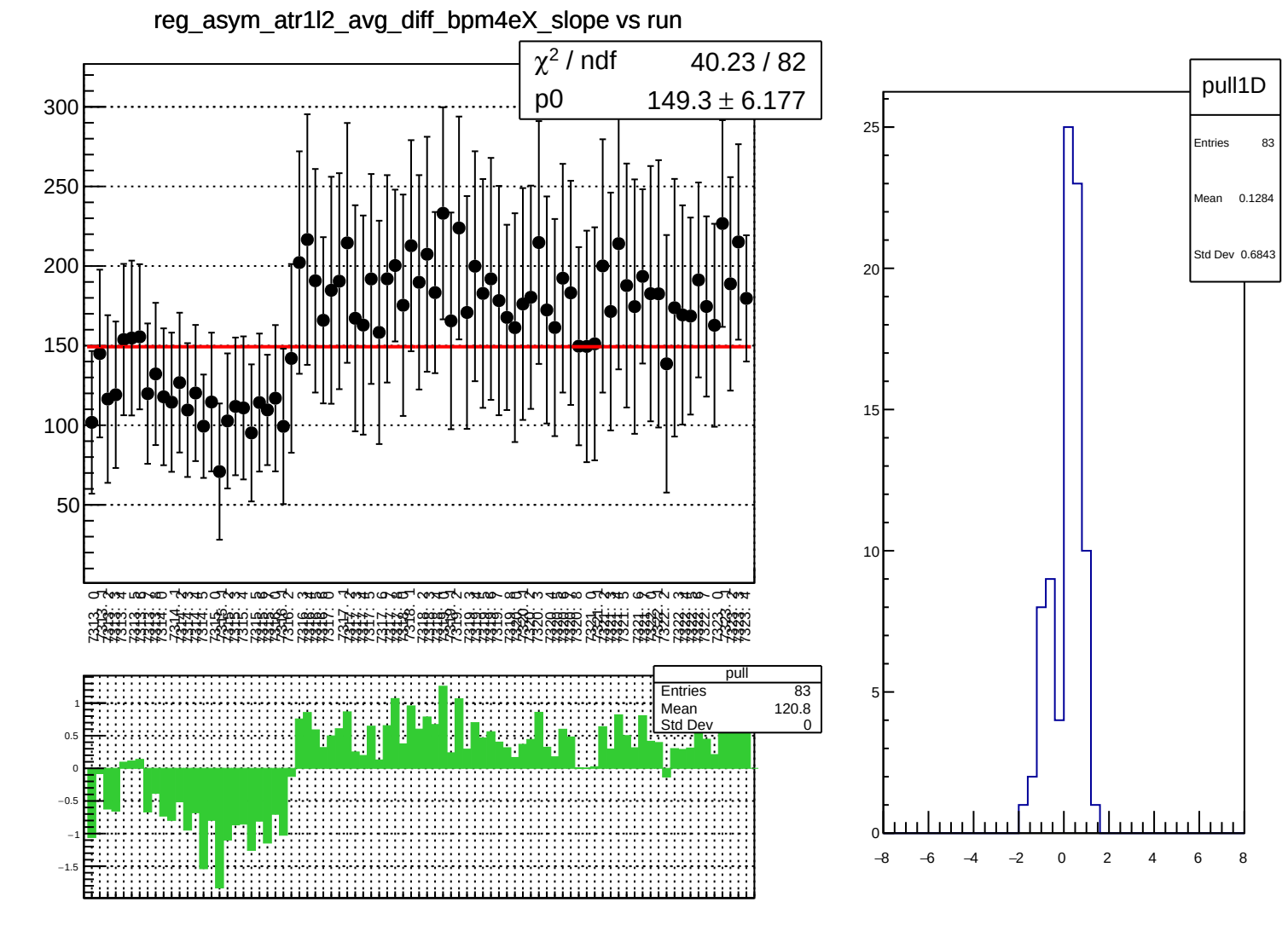

pull1D
Entries 83
Mean 0.0006817
Std Dev 0.2718

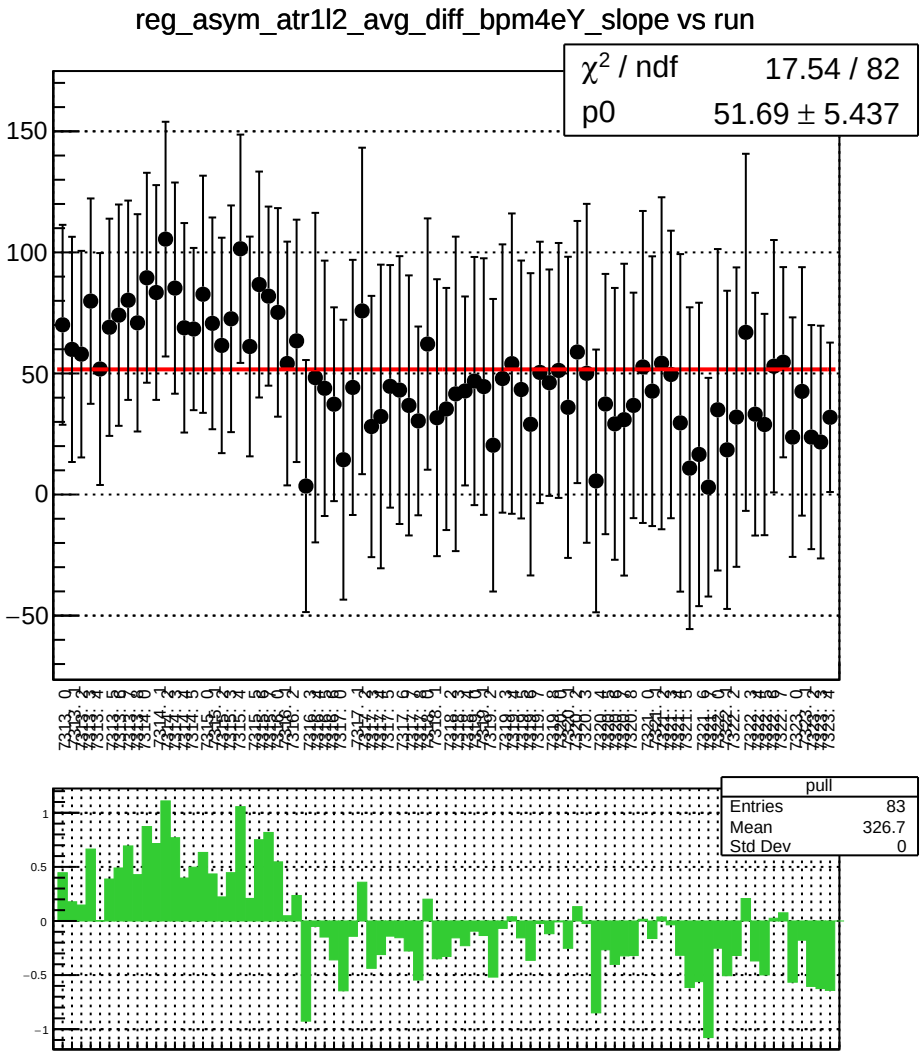

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 39.72 / 82
p0 −207.8 ± 6.219
−100
−150
−200
−250
−300
−350
pull
Entries 83
Mean 122.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

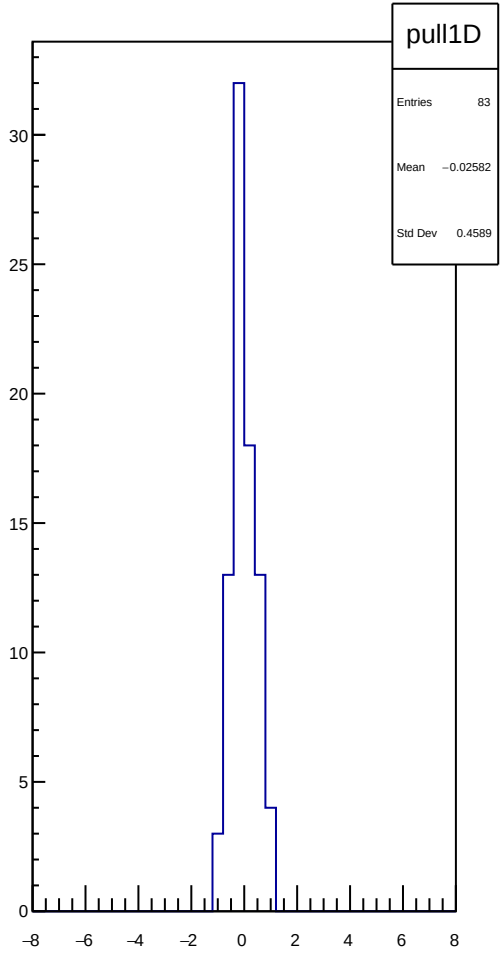

pull1D
Entries 83
Mean −0.1263
Std Dev 0.6801
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

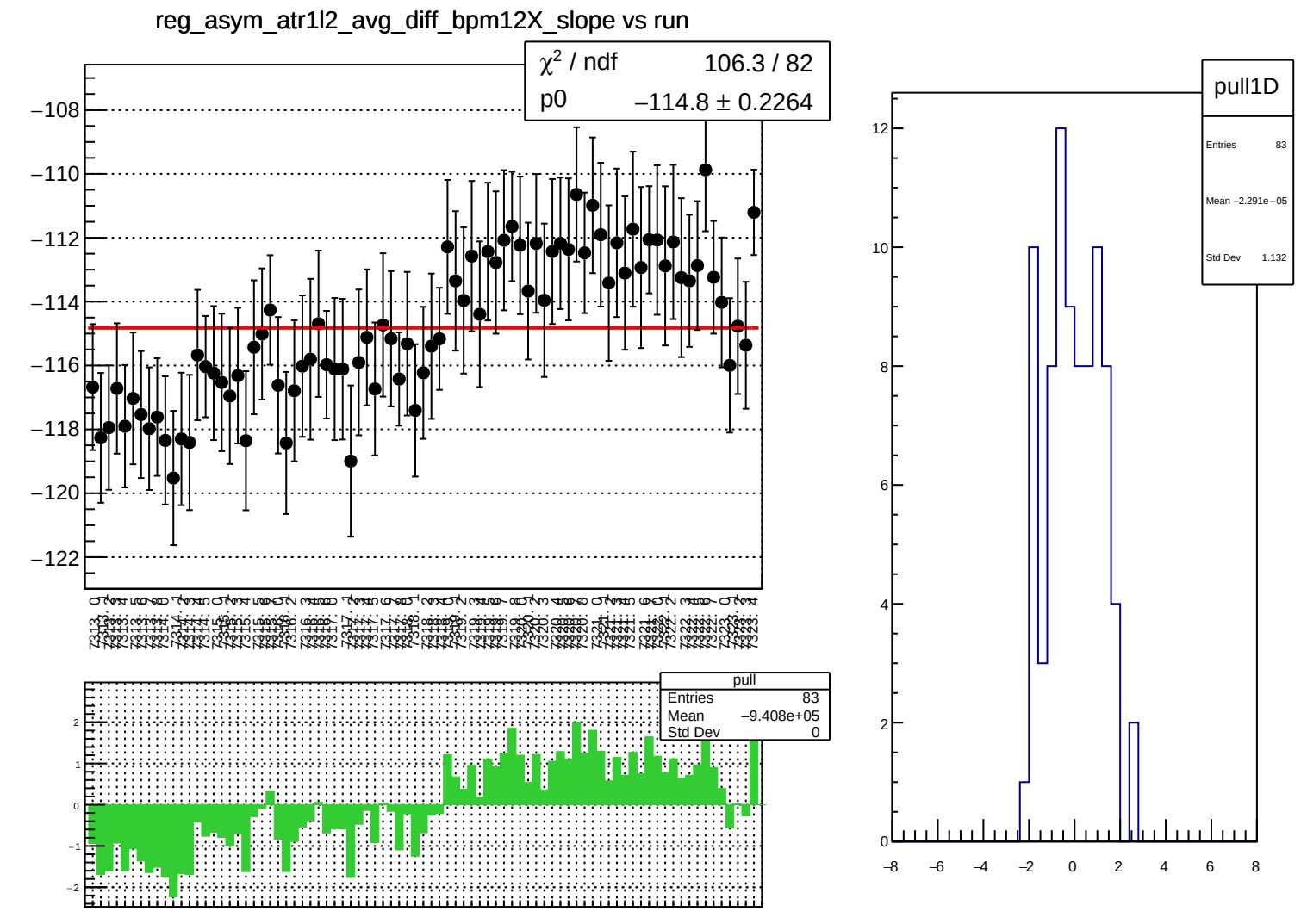

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.21 / 82
p0 2.089 ± 5.029
pull
Entries 83
Mean 345.2
Std Dev 0

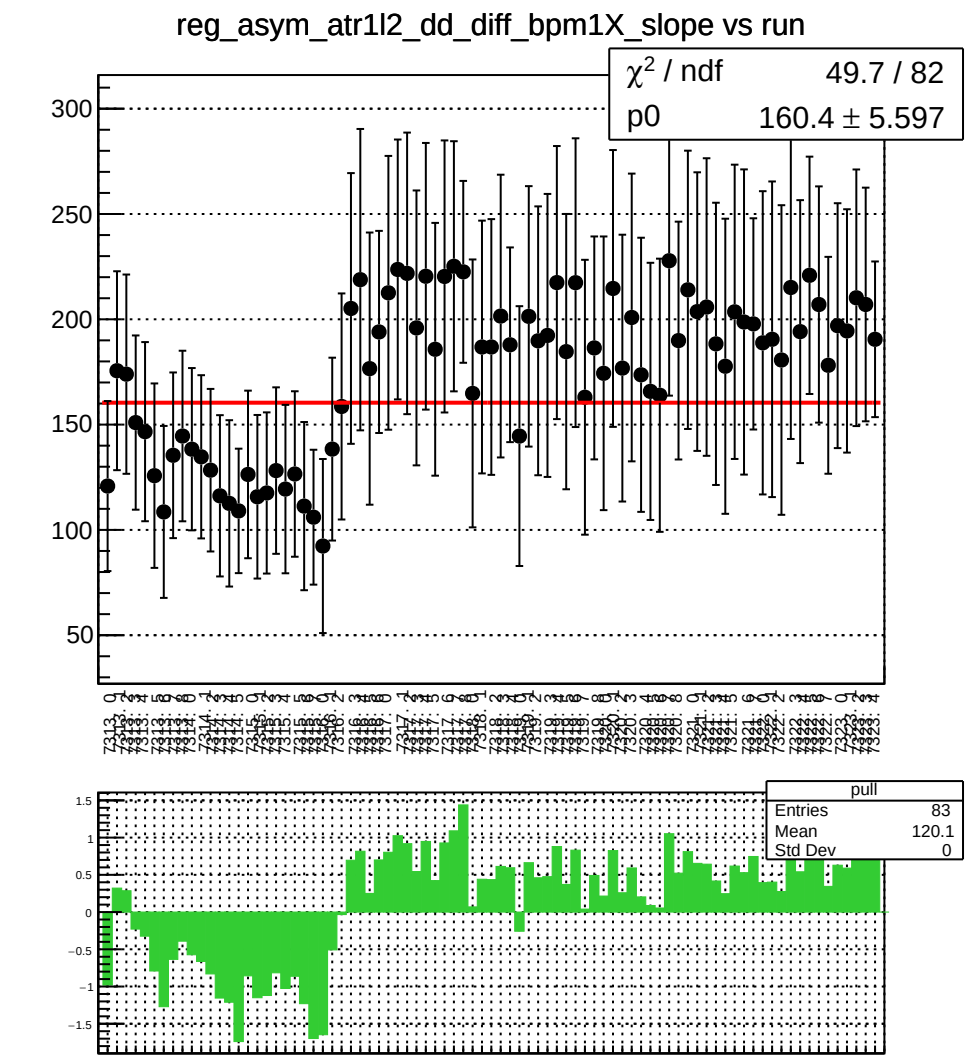

pull1D
Entries 83
Mean 0.02222
Std Dev 0.4414

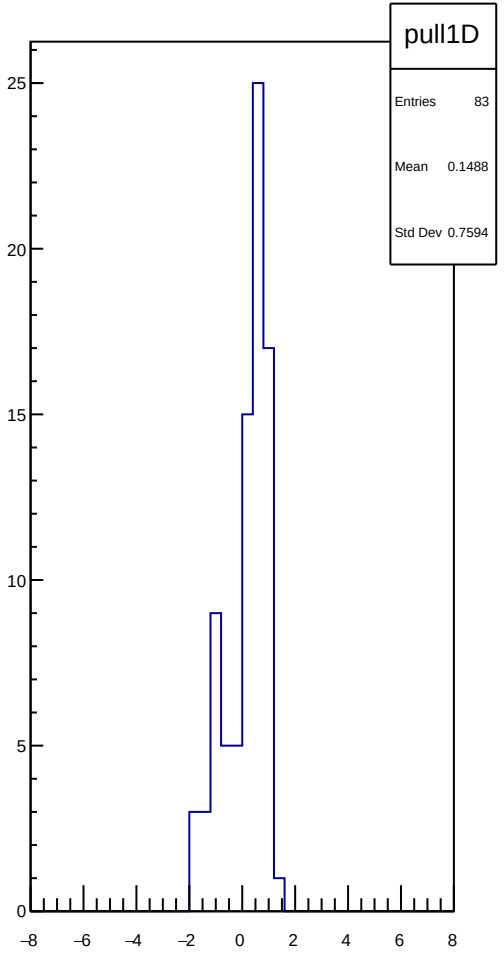

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.23 / 82
p0 149.3 ± 6.177
pull
Entries 83
Mean 120.8
Std Dev 0
pull1D
Entries 83
Mean 0.1284
Std Dev 0.6843

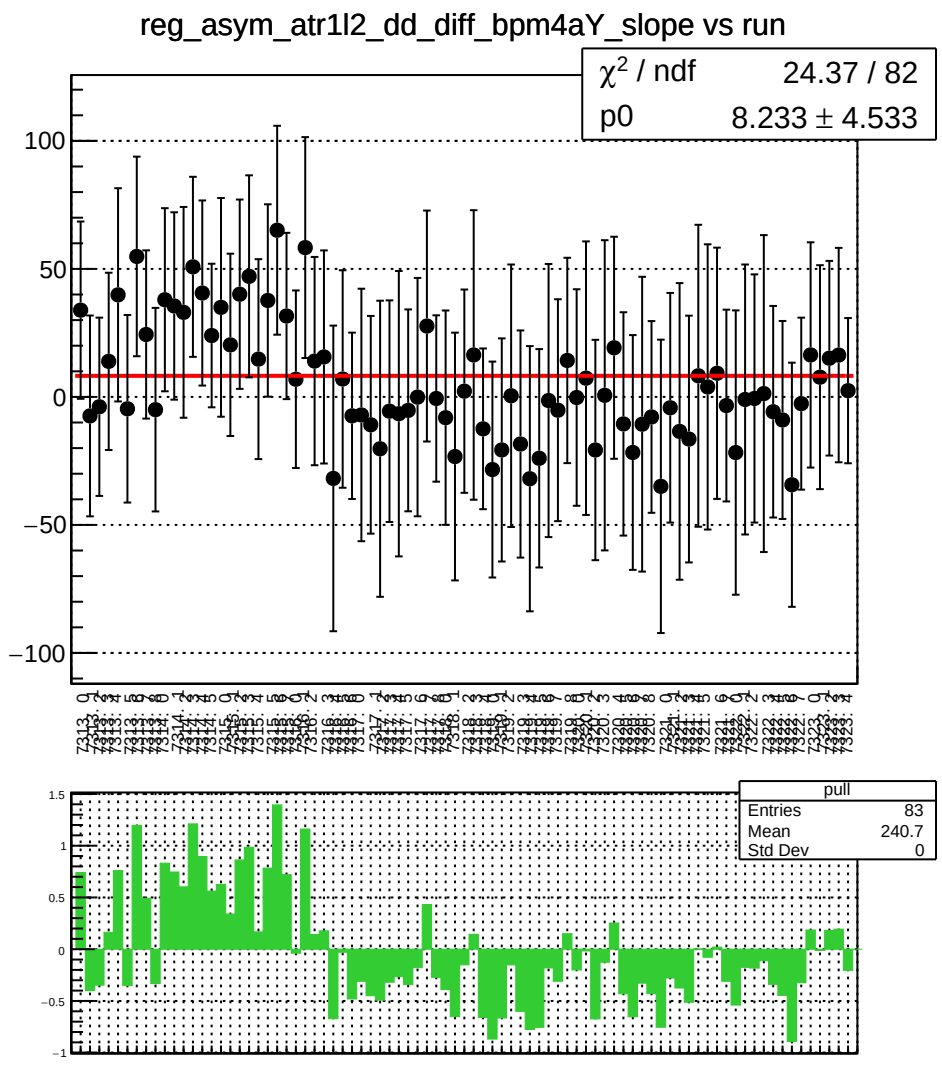

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 82
p0 51.69 ± 5.437
150
100
50
0
−50
pull
Entries 83
Mean 326.7
Std Dev 0
1
0.5
0
−0.5
−1

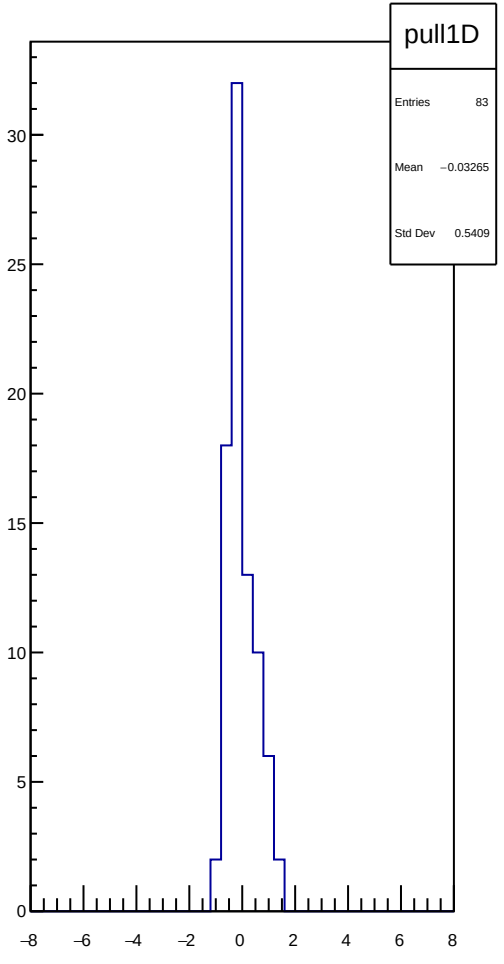

pull1D
Entries 83
Mean −0.02582
Std Dev 0.4589
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

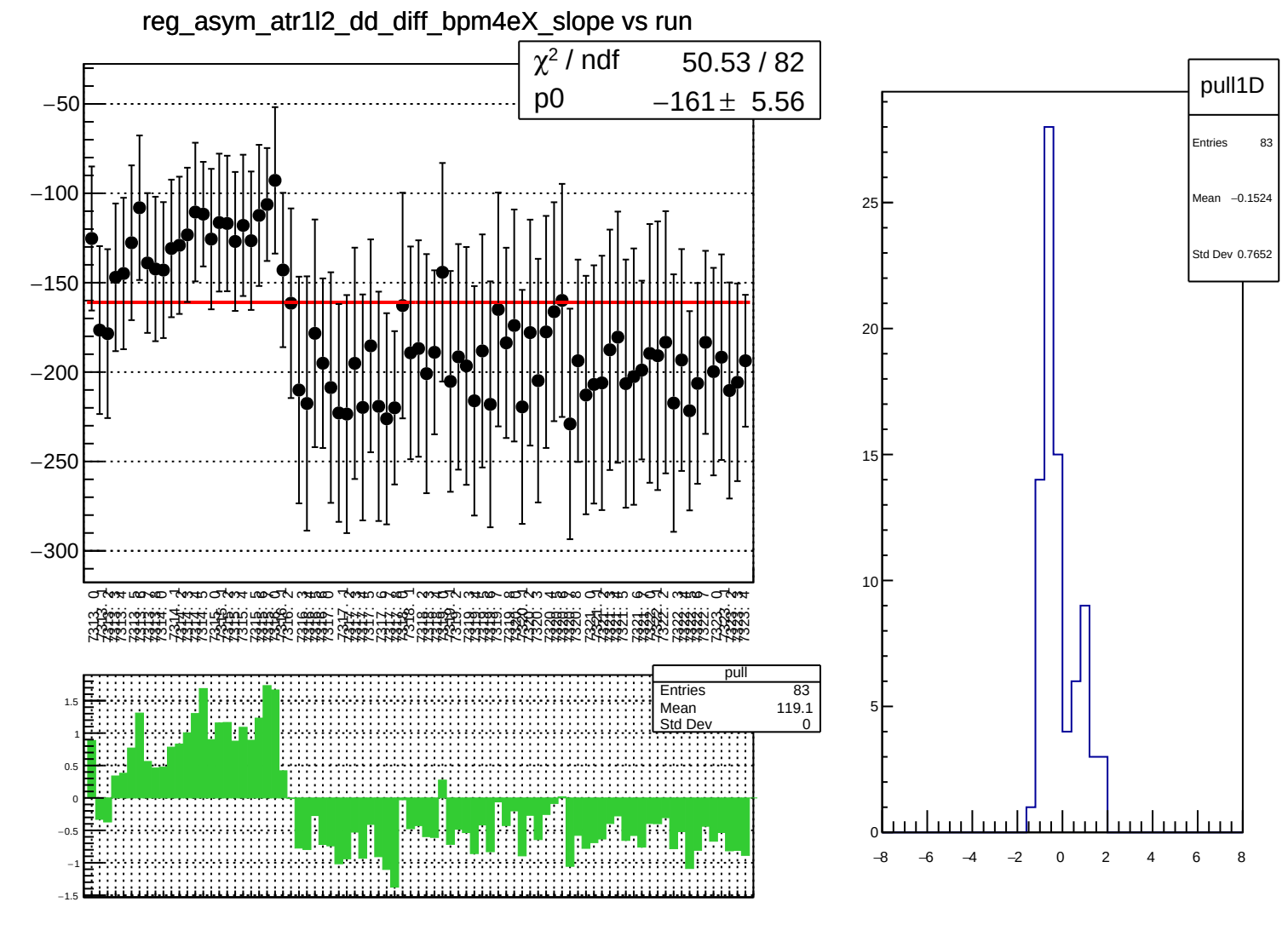

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 82
p0 −114.8 ± 0.2264
pull
Entries 83
Mean −9.408e+05
Std Dev 0
pull1D
Entries 83
Mean −2.291e−05
Std Dev 1.132

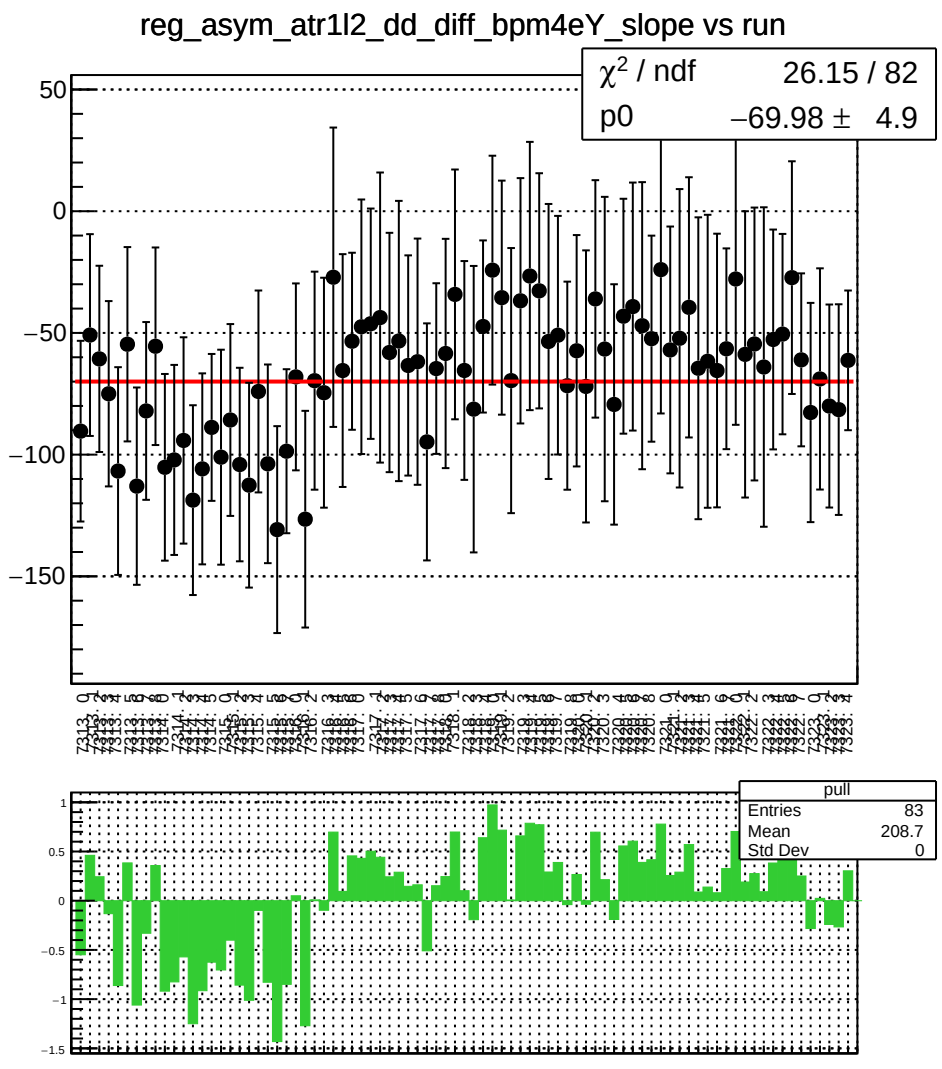

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 49.7 / 82
p0 160.4 ± 5.597
pull
Entries 83
Mean 120.1
Std Dev 0

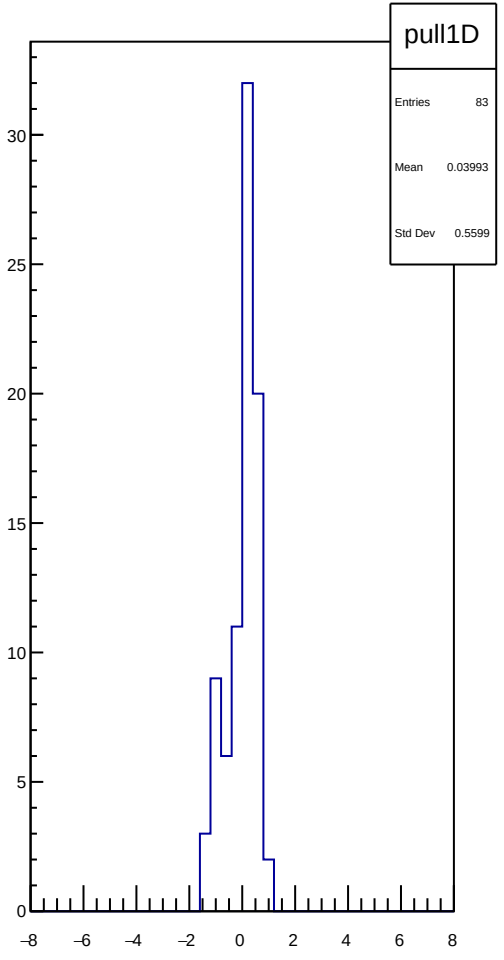

pull1D
Entries 83
Mean 0.1488
Std Dev 0.7594

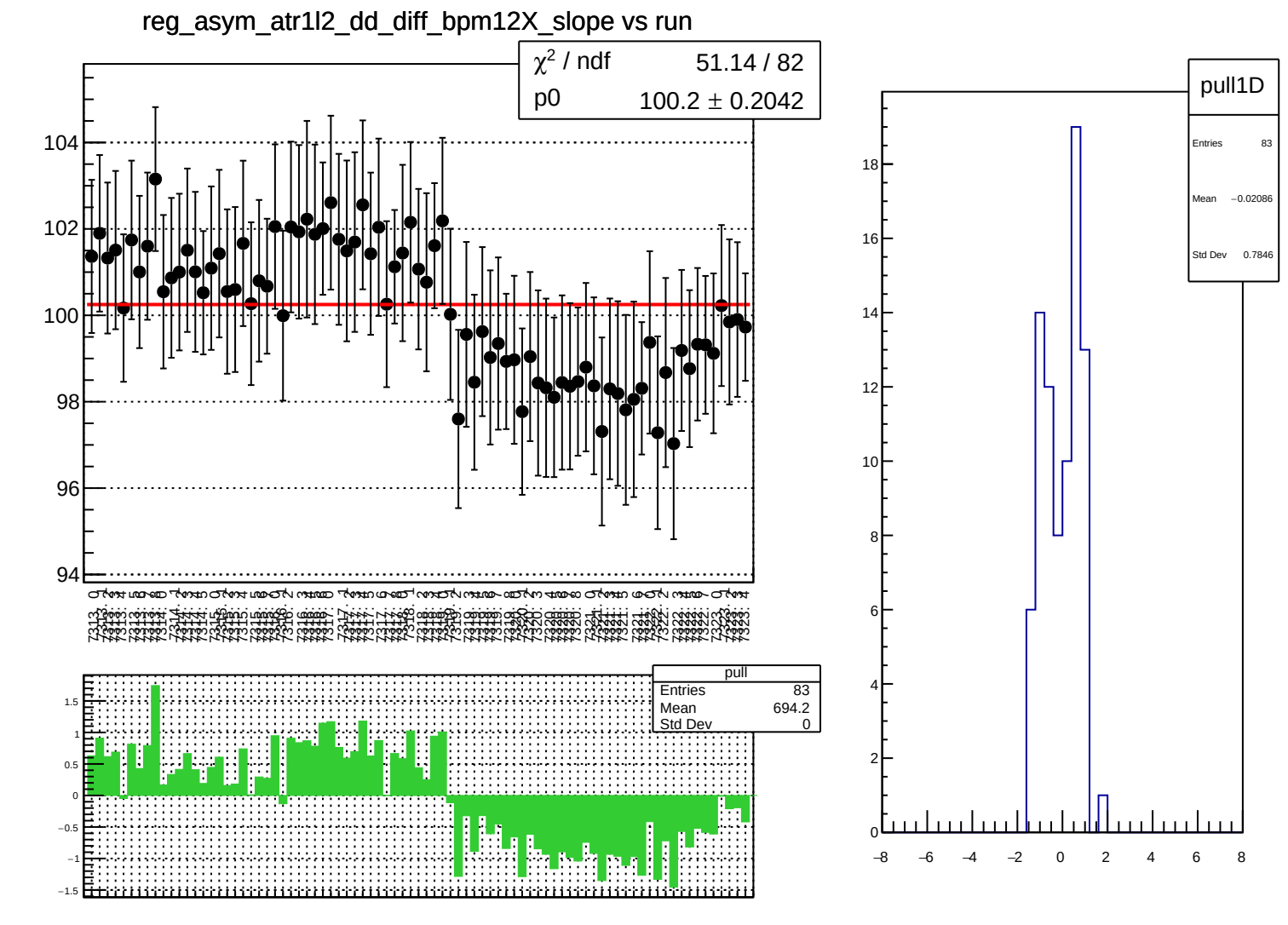

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.37 / 82
p0 8.233 ± 4.533
pull
Entries 83
Mean 240.7
Std Dev 0

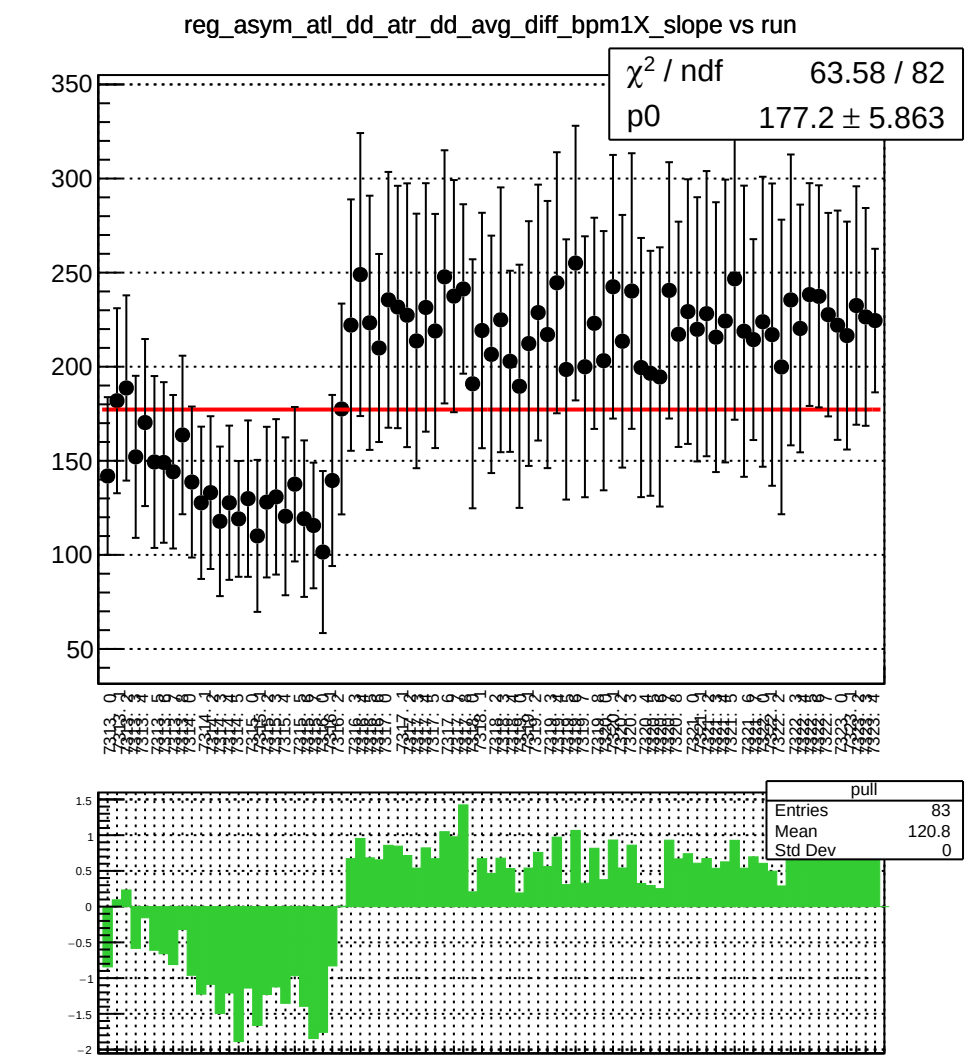

pull1D
Entries 83
Mean −0.03265
Std Dev 0.5409

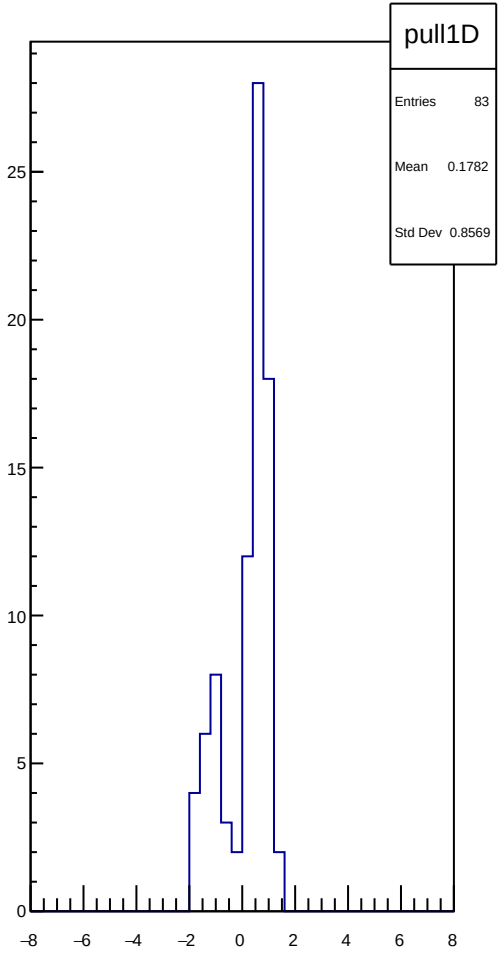

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.53 / 82
p0 −161 ± 5.56
−50
−100
−150
−200
−250
−300
pull
Entries 83
Mean 119.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.1524
Std Dev 0.7652
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

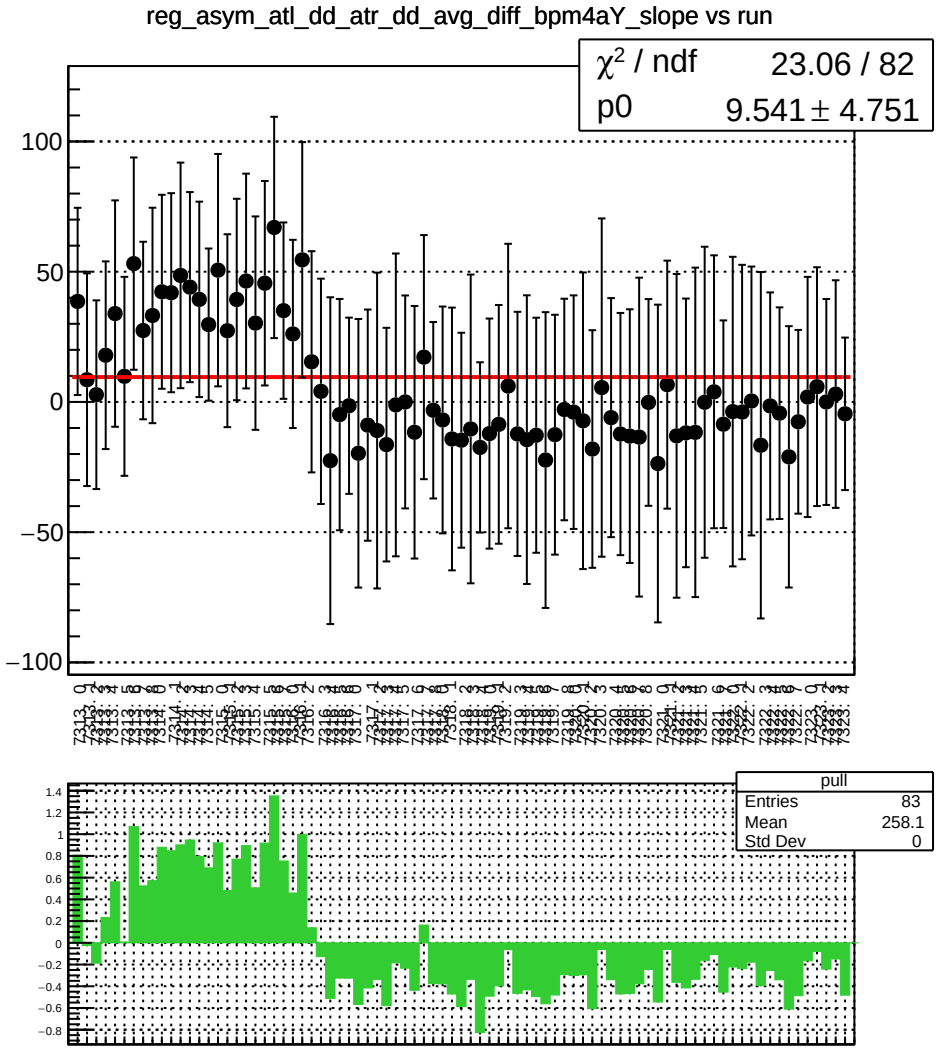

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.15 / 82
p0 −69.98 ± 4.9
50
0
−50
−100
−150
pull
Entries 83
Mean 208.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

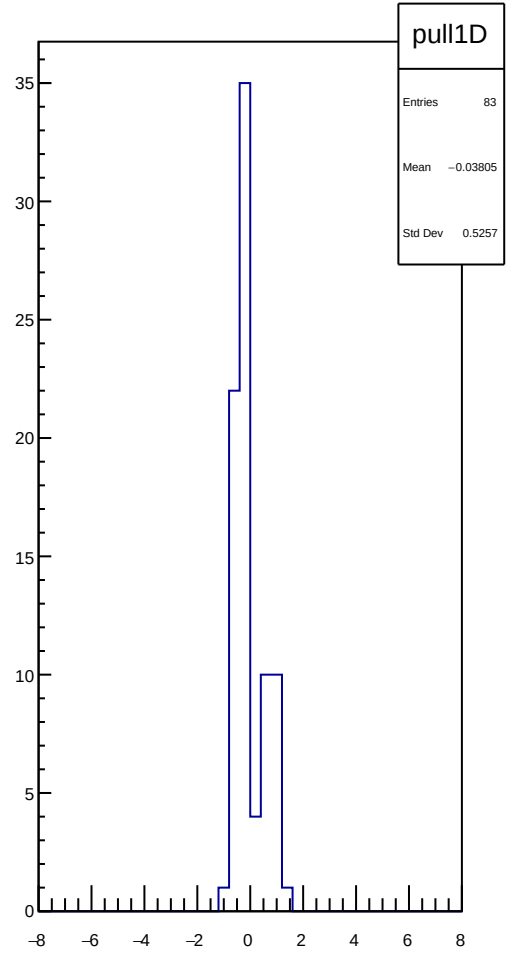

pull1D
Entries 83
Mean 0.03993
Std Dev 0.5599
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

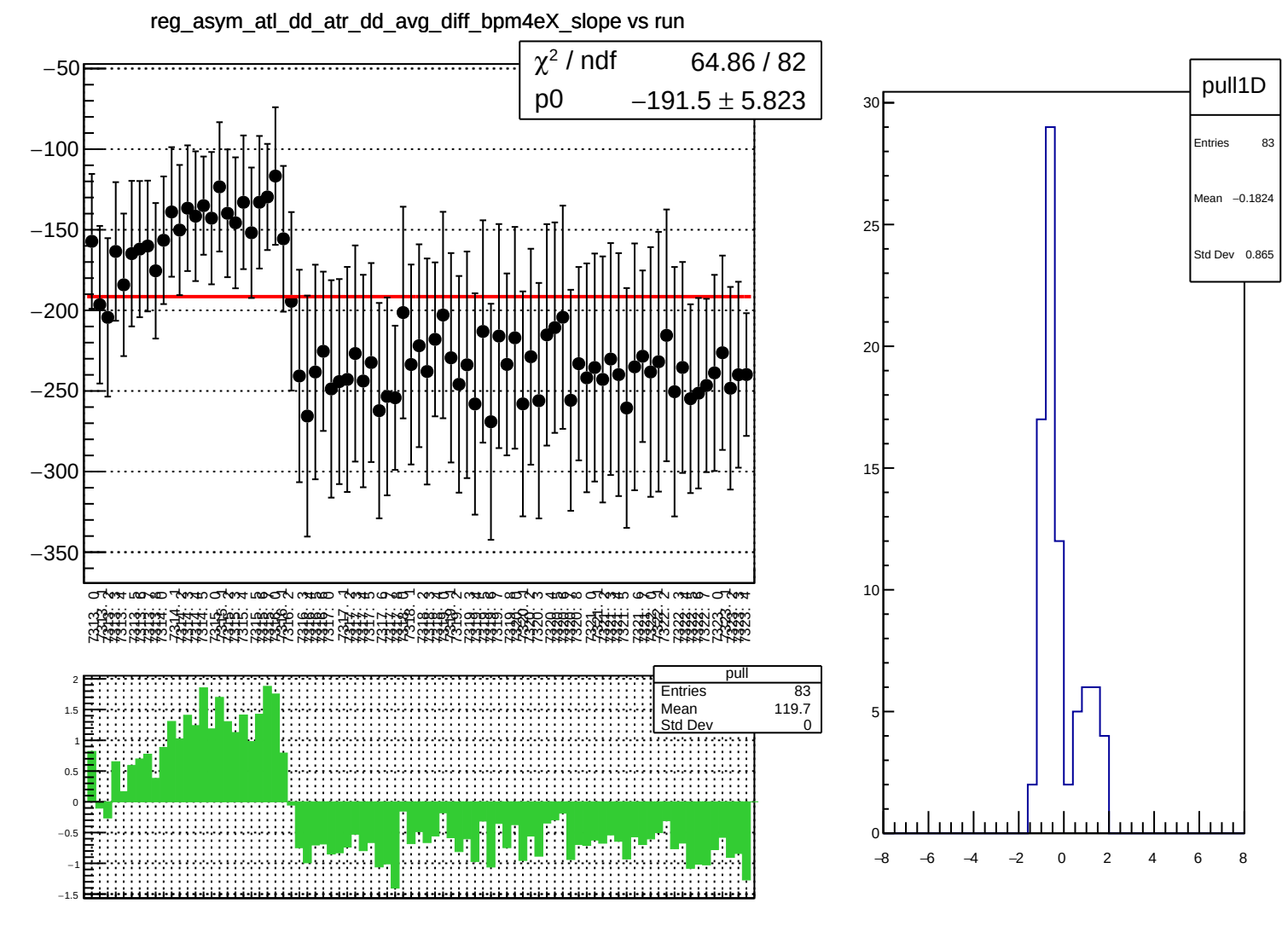

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 51.14 / 82
p0 100.2 ± 0.2042
104
102
100
98
96
94
pull
Entries 83
Mean 694.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.02086
Std Dev 0.7846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

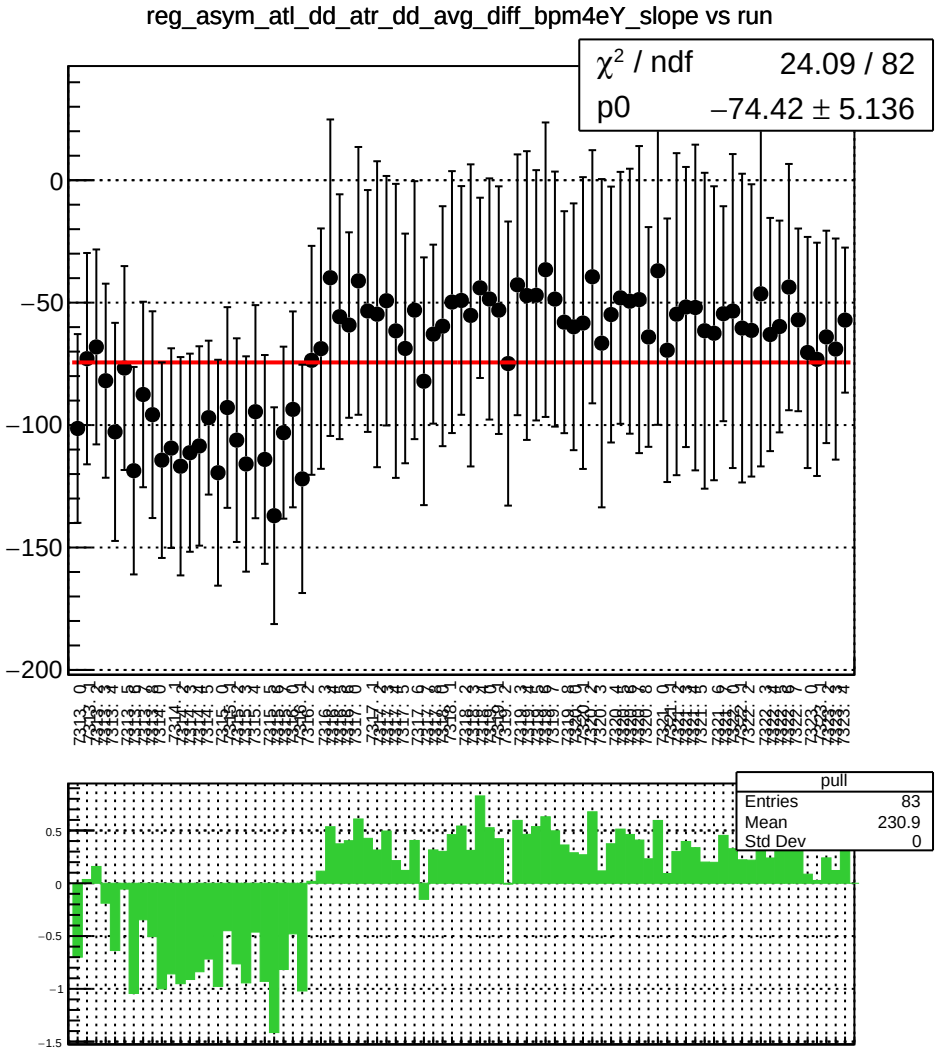

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 63.58 / 82
p0 177.2 ± 5.863
pull
Entries 83
Mean 120.8
Std Dev 0

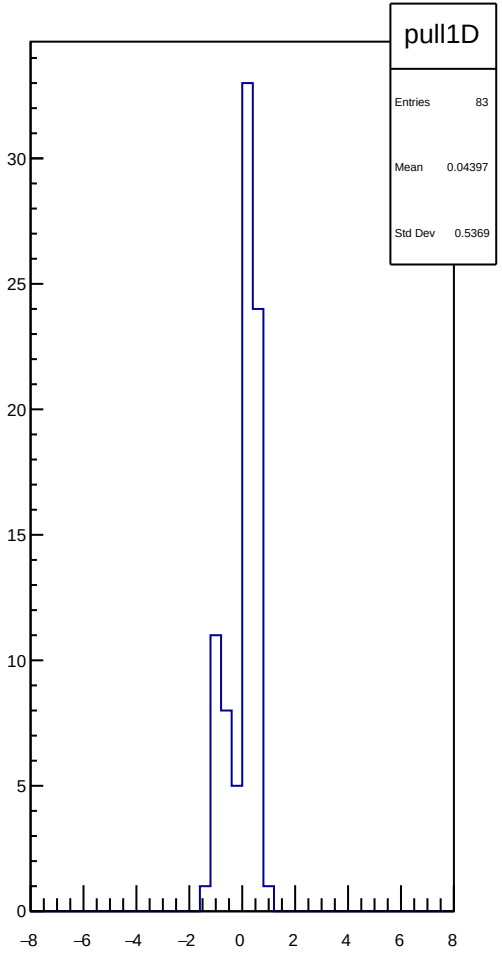

pull1D
Entries 83
Mean 0.1782
Std Dev 0.8569

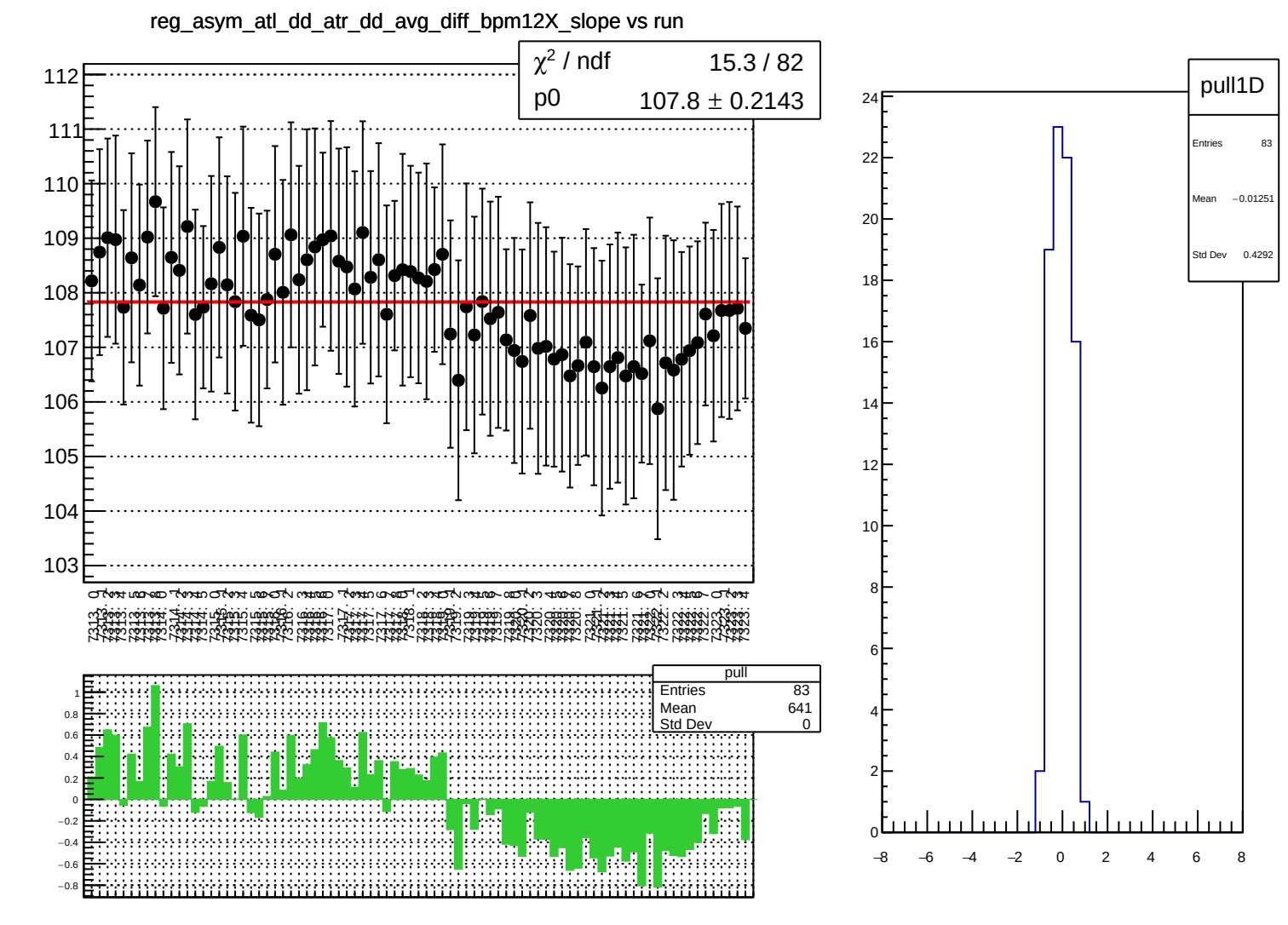

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.06 / 82
p0 9.541 ± 4.751
pull
Entries 83
Mean 258.1
Std Dev 0

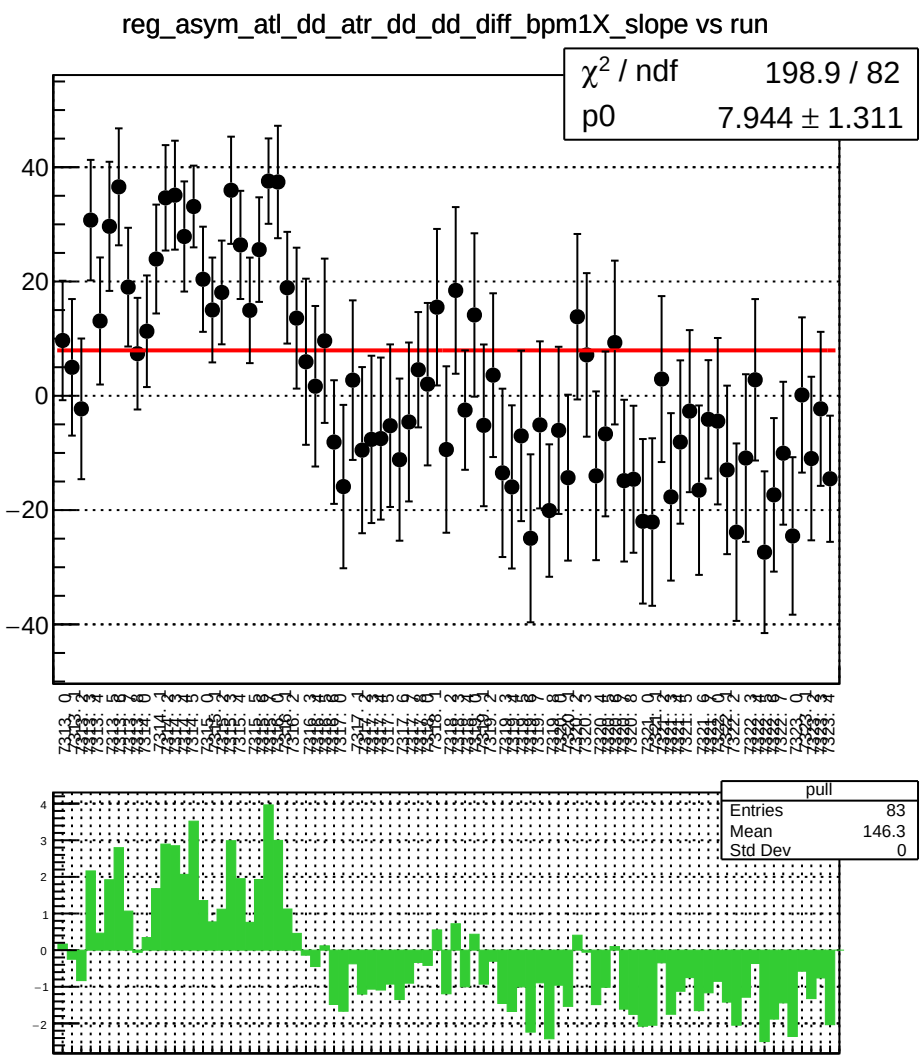

pull1D
Entries 83
Mean −0.03805
Std Dev 0.5257

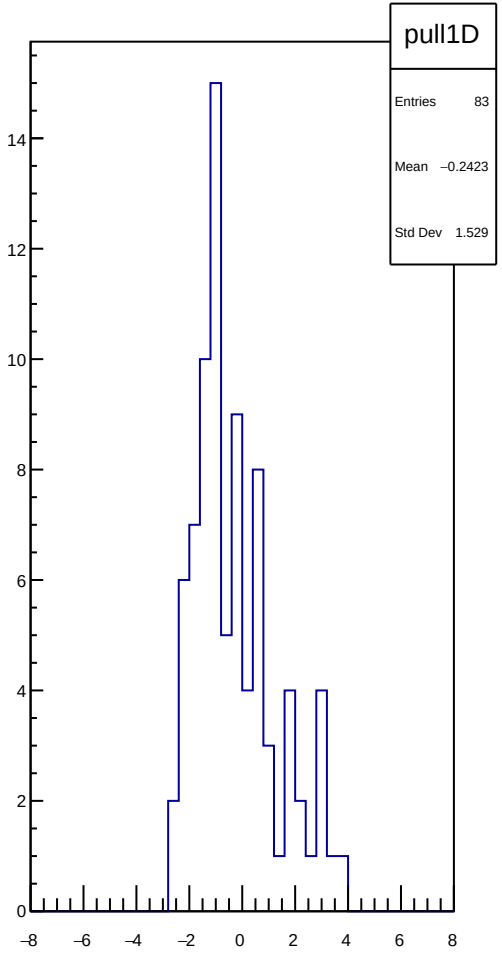

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.86 / 82
p0 −191.5 ± 5.823
pull
Entries 83
Mean 119.7
Std Dev 0
pull1D
Entries 83
Mean −0.1824
Std Dev 0.865

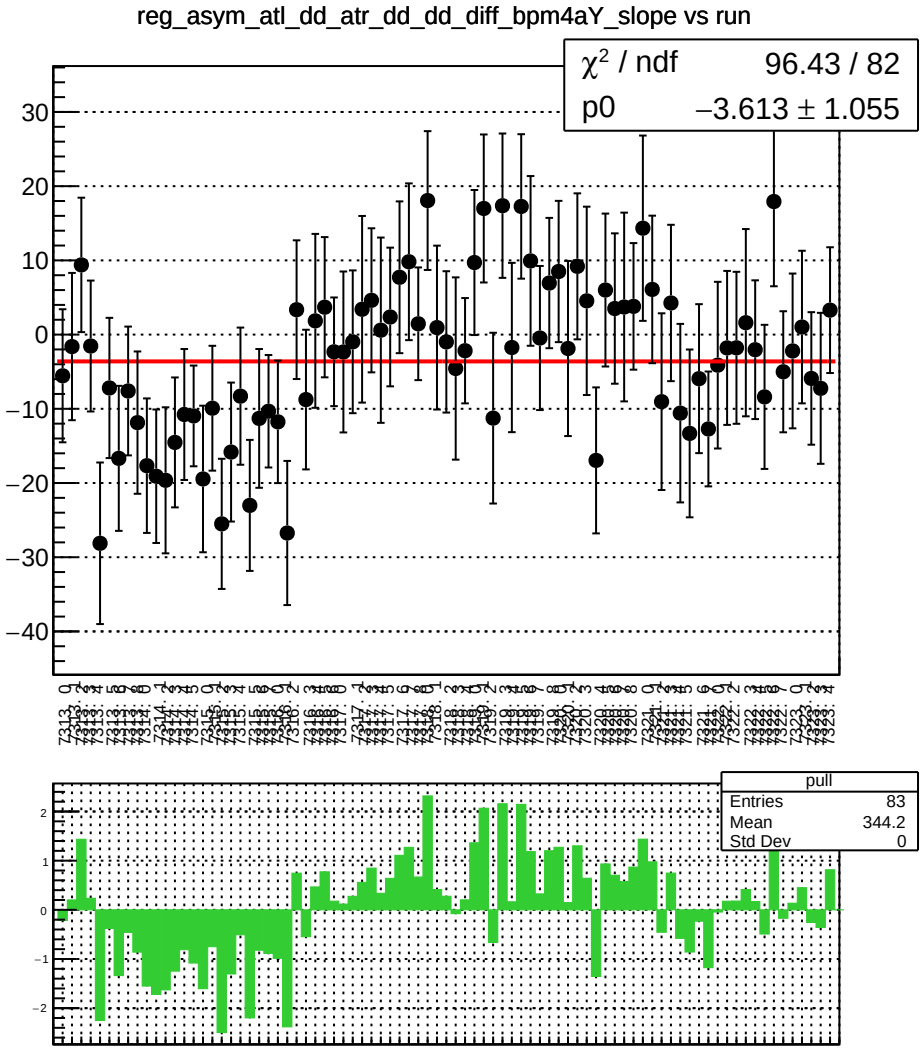

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.09 / 82
p0 −74.42 ± 5.136
pull
Entries 83
Mean 230.9
Std Dev 0

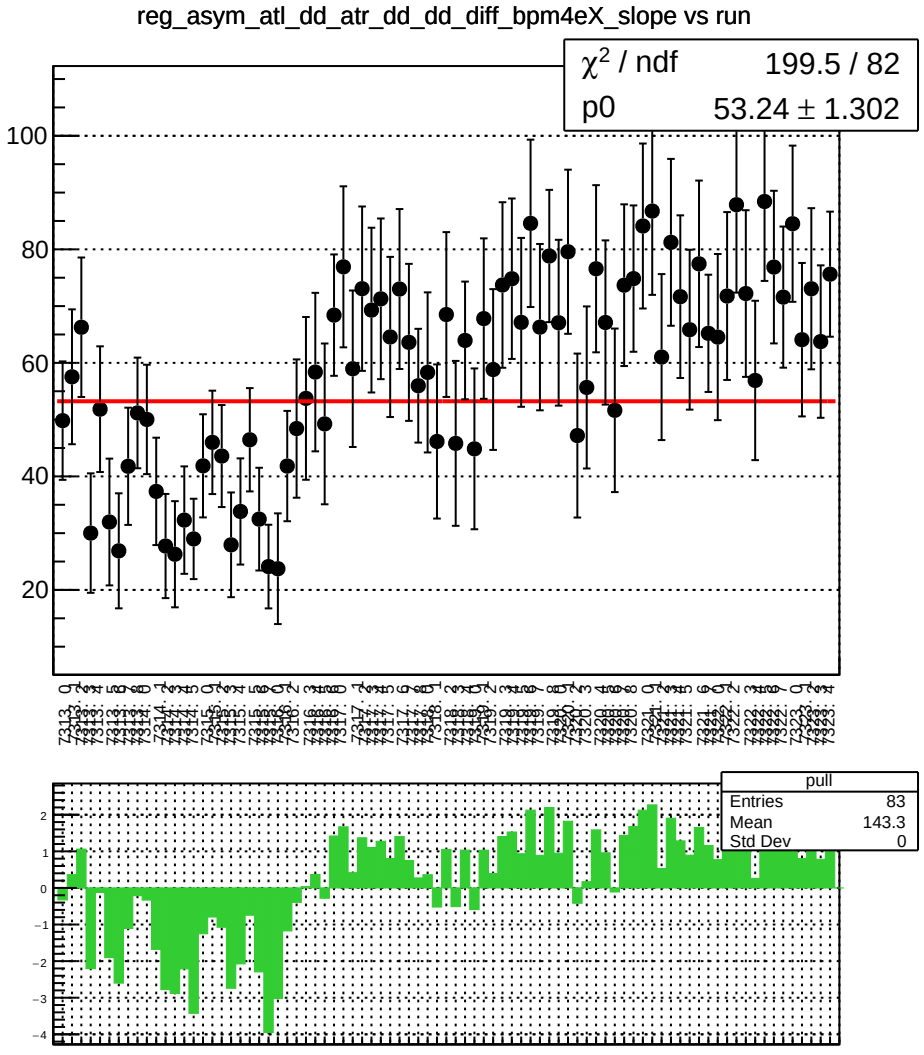

pull1D
Entries 83
Mean 0.04397
Std Dev 0.5369

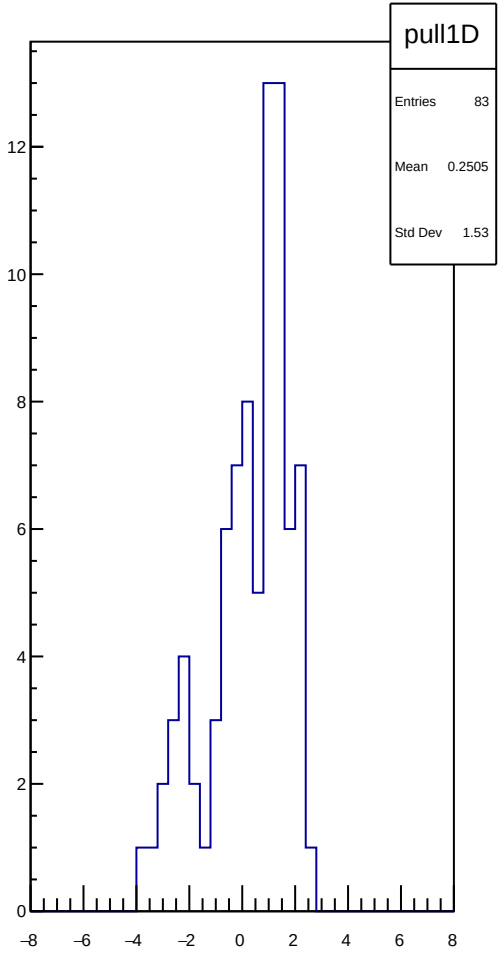

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 15.3 / 82
p0 107.8 ± 0.2143
pull
Entries 83
Mean 641
Std Dev 0
pull1D
Entries 83
Mean −0.01251
Std Dev 0.4292

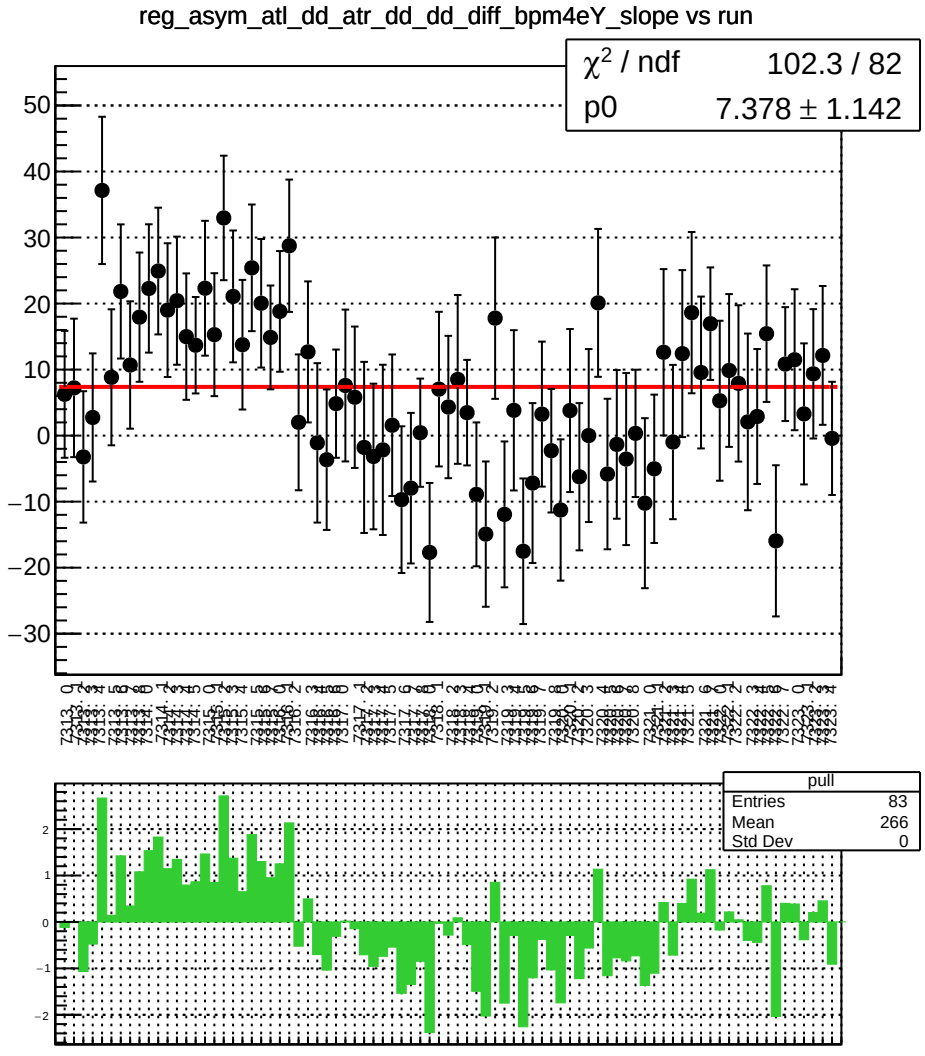

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 198.9 / 82
p0 7.944 ± 1.311
pull
Entries 83
Mean 146.3
Std Dev 0

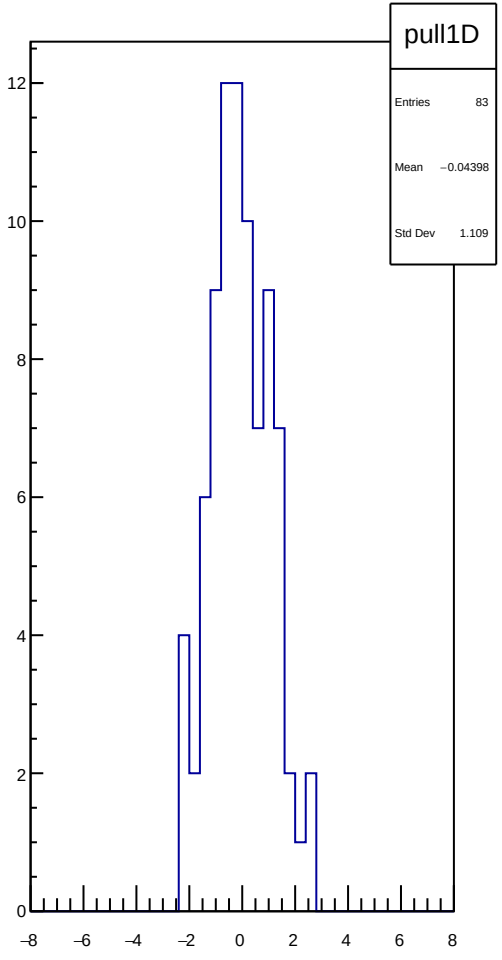

pull1D
Entries 83
Mean −0.2423
Std Dev 1.529

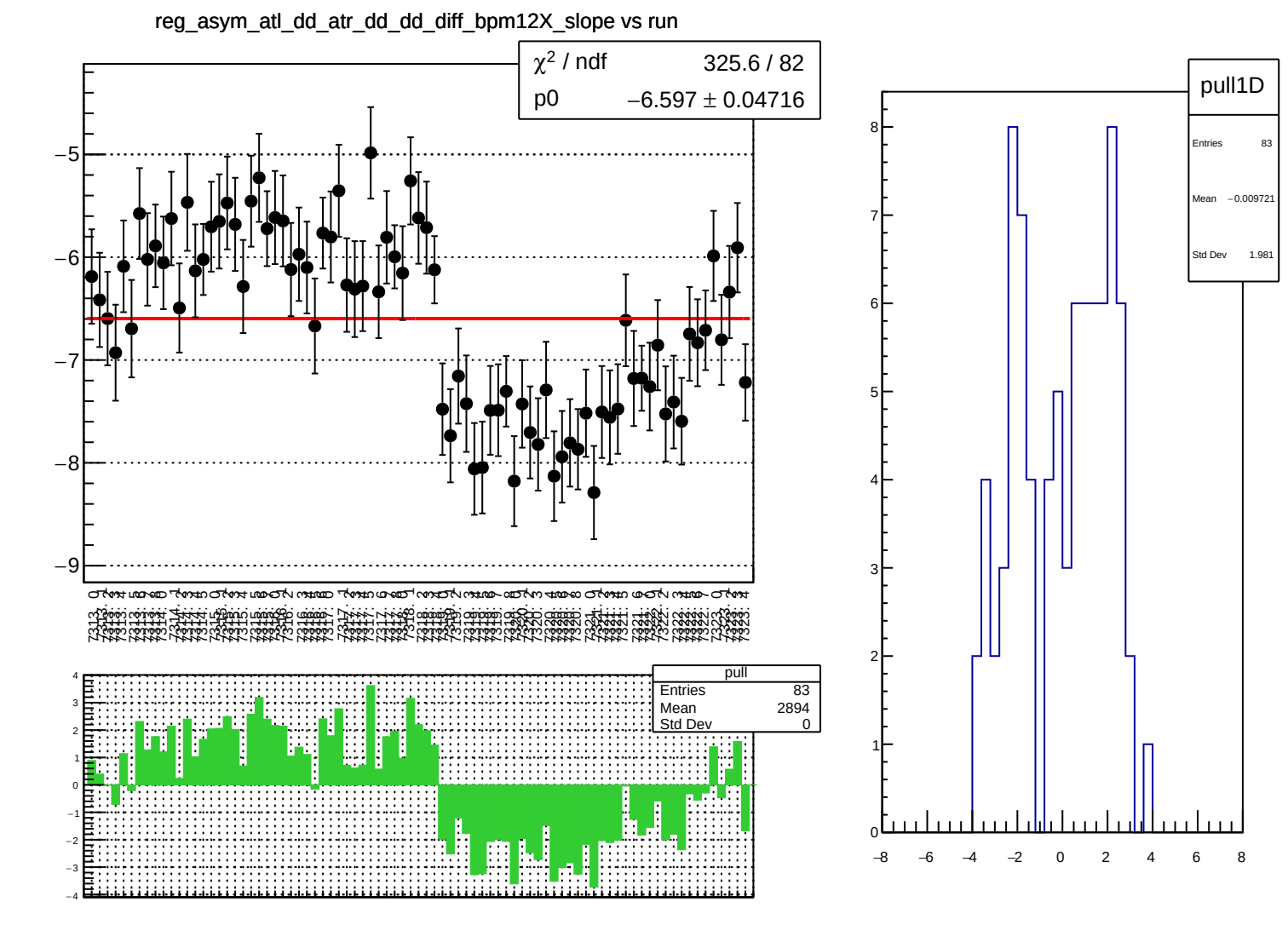

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.43 / 82
p0 −3.613 ± 1.055
pull
Entries 83
Mean 344.2
Std Dev 0
pull1D
Entries 83
Mean 0.03321
Std Dev 1.077

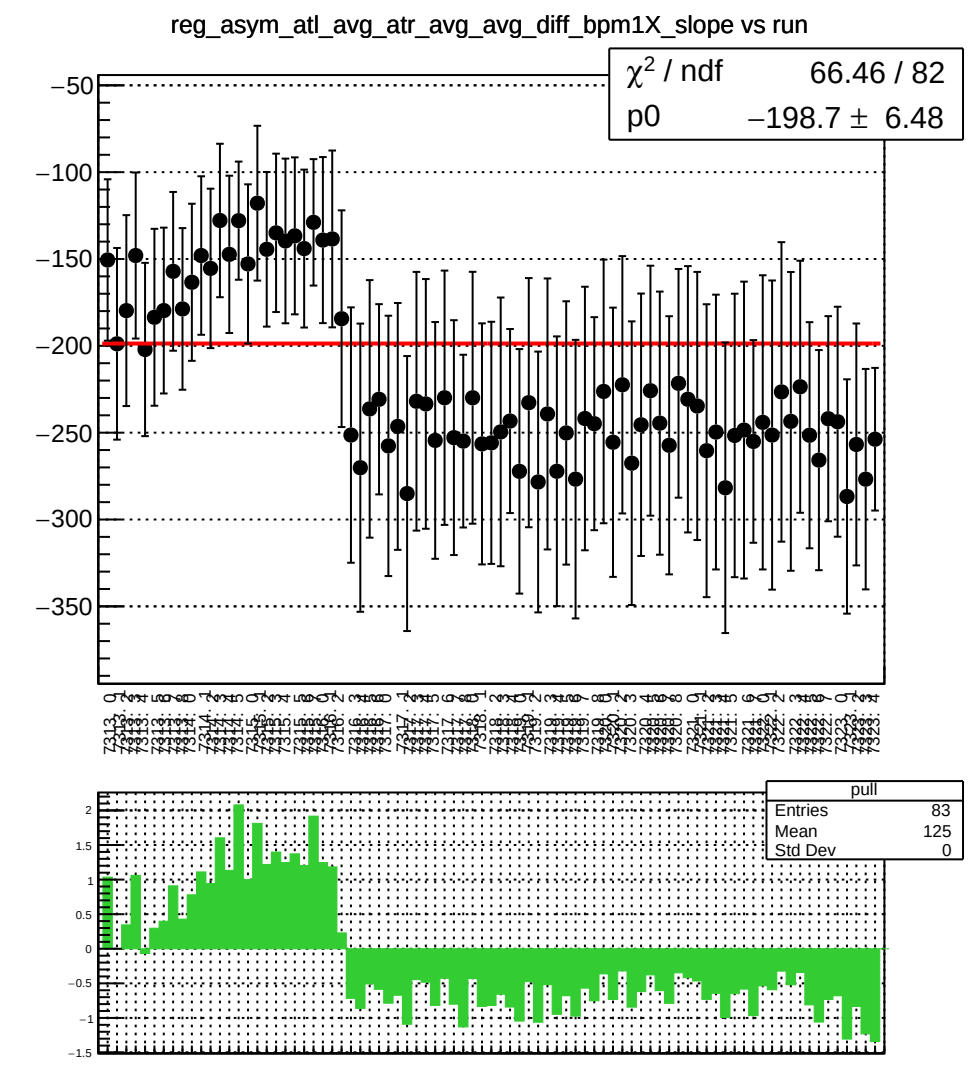

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 199.5 / 82
p0 53.24 ± 1.302
pull
Entries 83
Mean 143.3
Std Dev 0

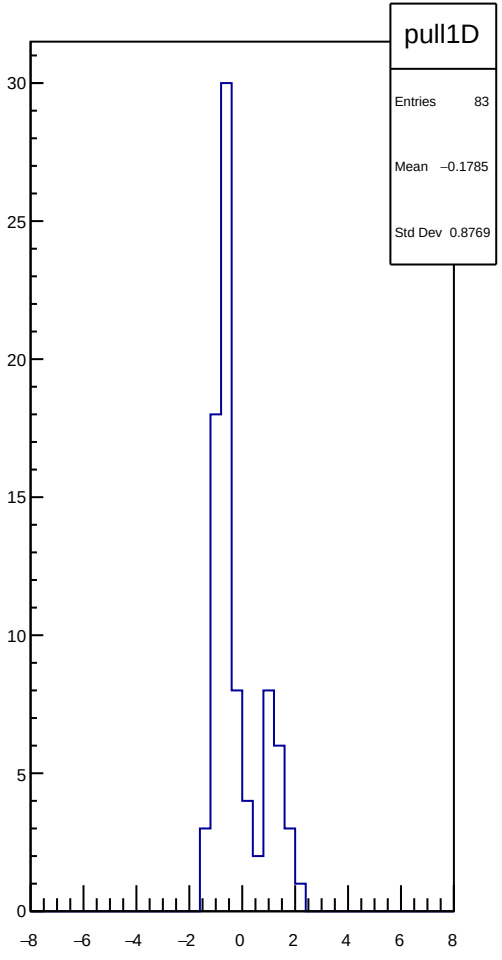

pull1D
Entries 83
Mean 0.2505
Std Dev 1.53

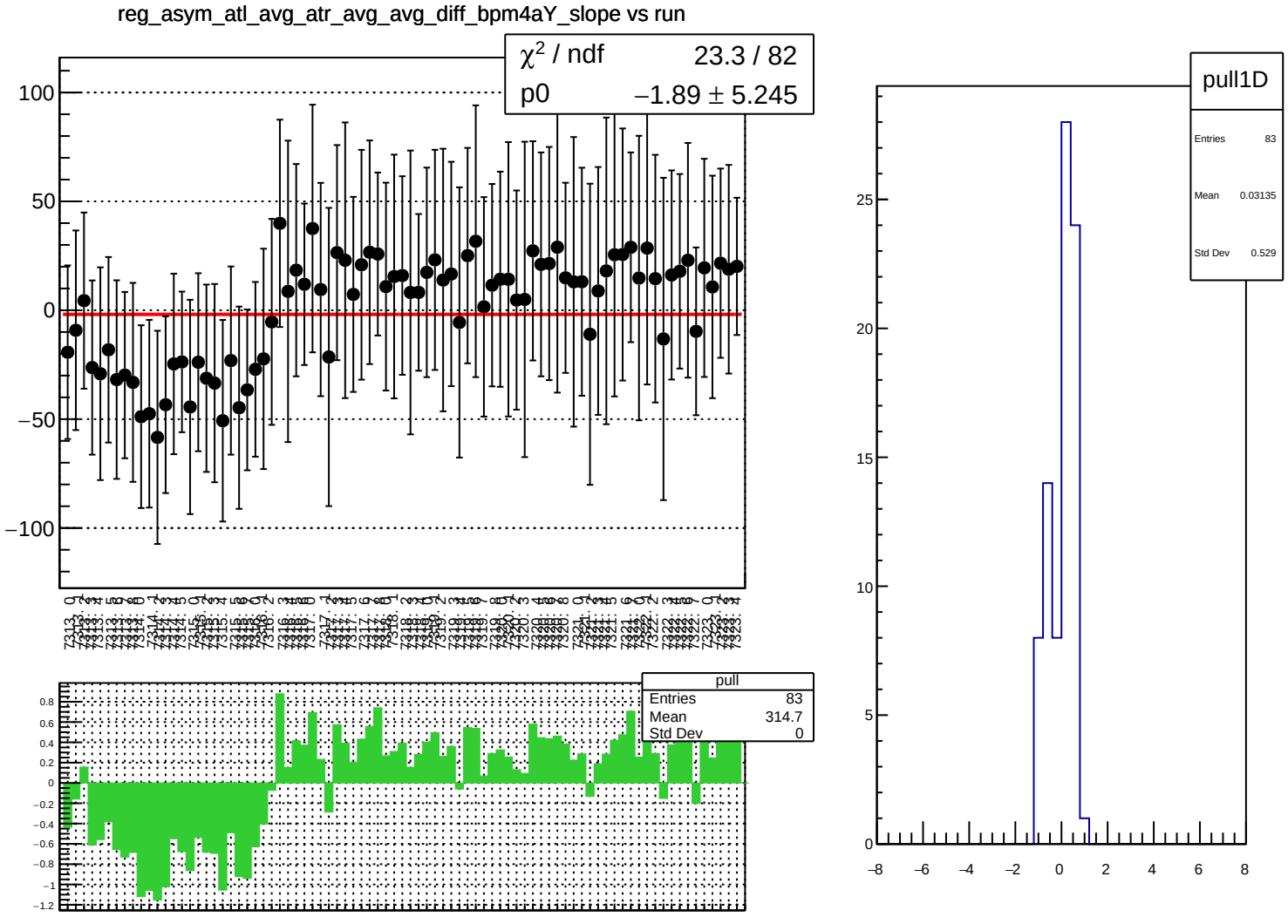

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.3 / 82
p0 7.378 ± 1.142
pull
Entries 83
Mean 266
Std Dev 0

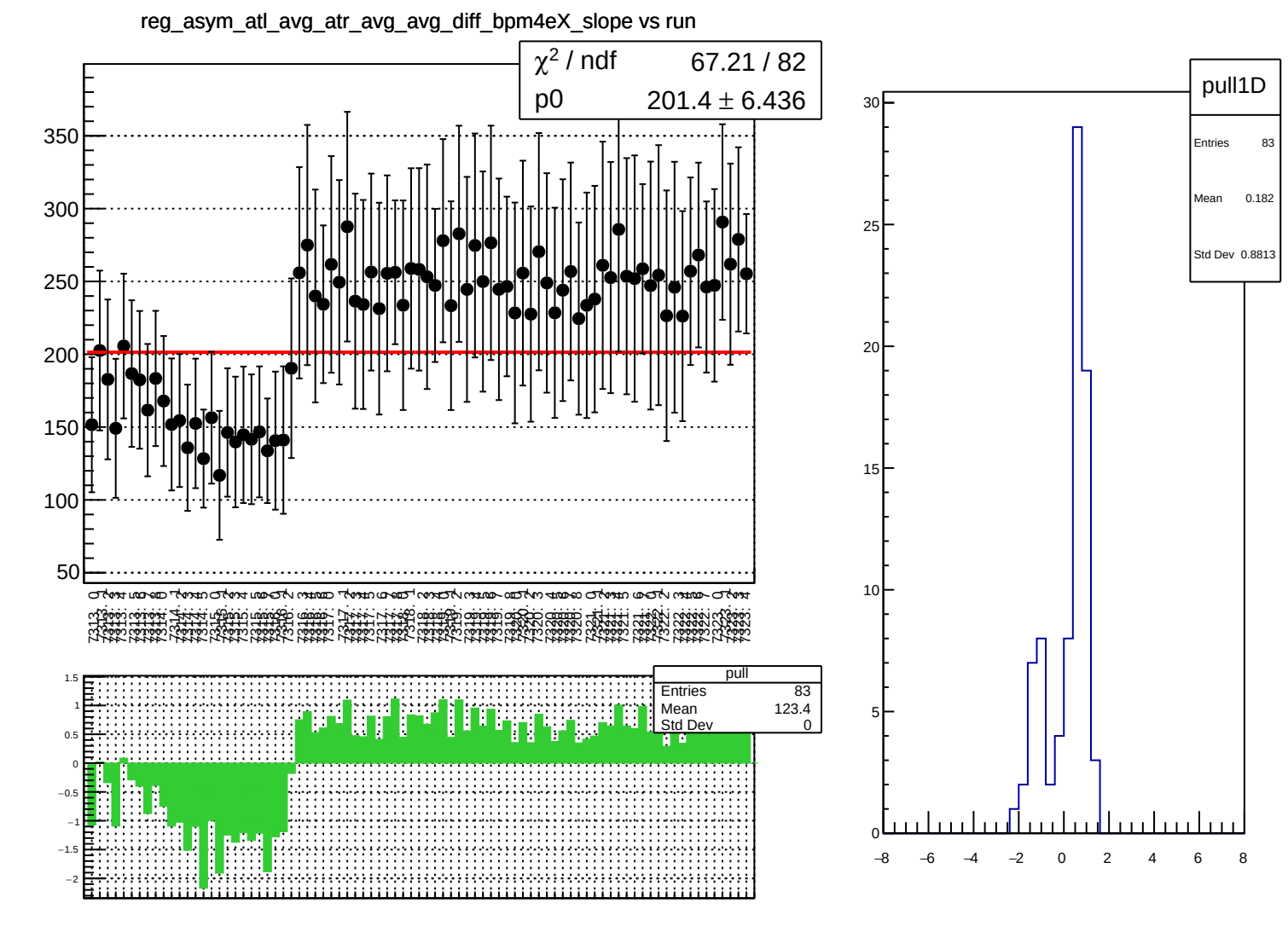

pull1D
Entries 83
Mean −0.04398
Std Dev 1.109

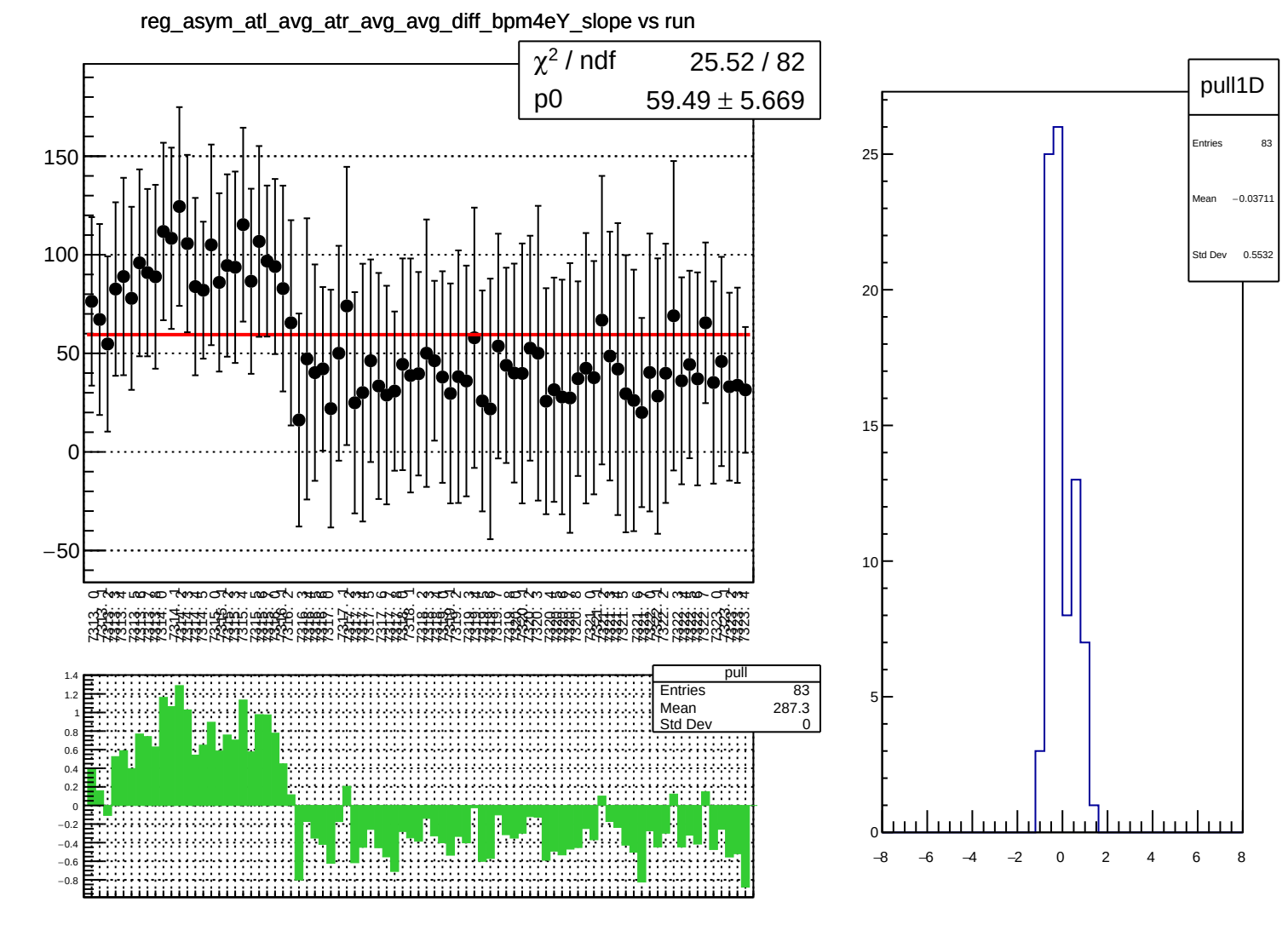

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 325.6 / 82
p0 −6.597 ± 0.04716
pull
Entries 83
Mean 2894
Std Dev 0
pull1D
Entries 83
Mean −0.009721
Std Dev 1.981

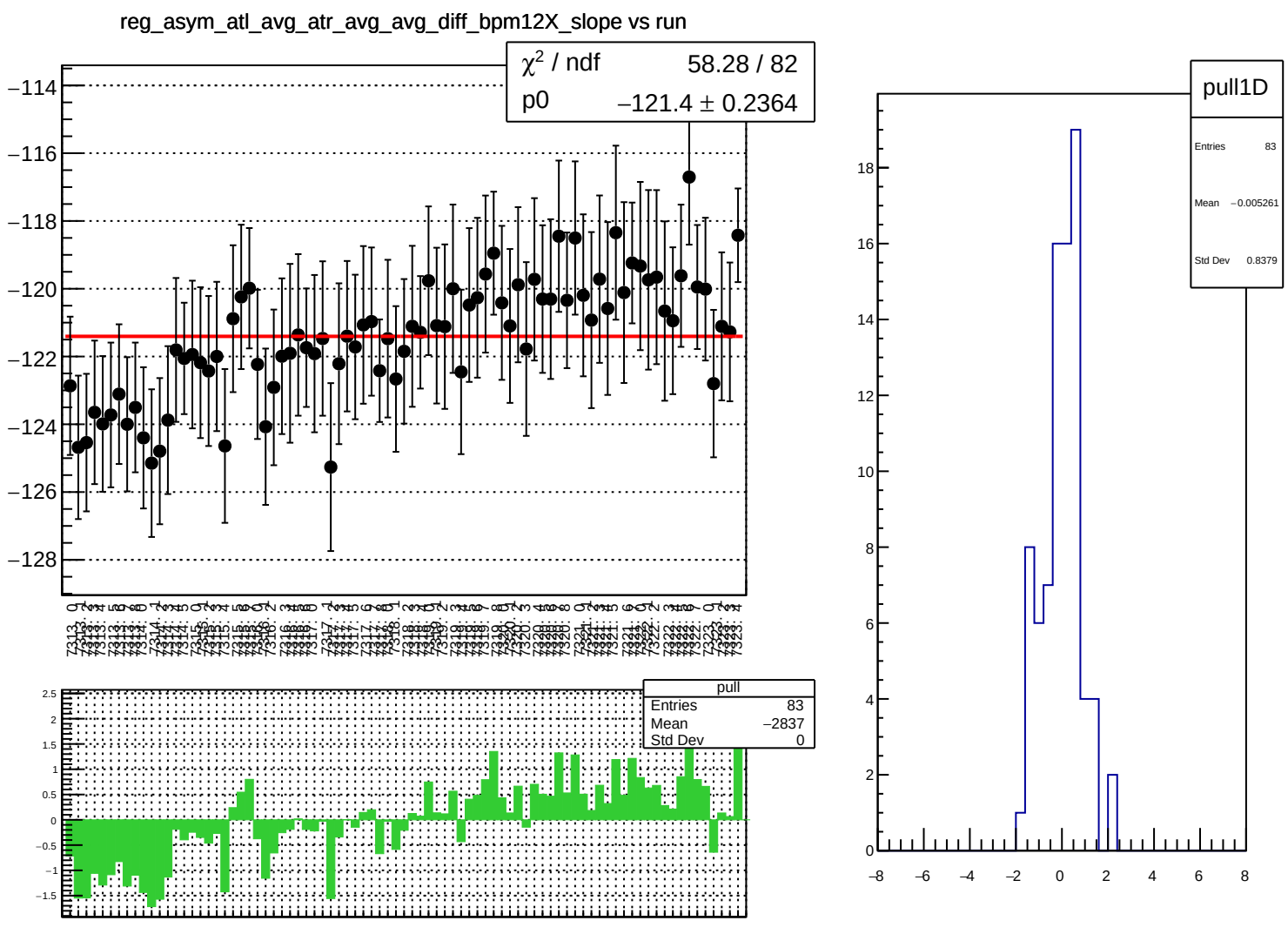

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 66.46 / 82
p0 −198.7 ± 6.48
pull
Entries 83
Mean 125
Std Dev 0

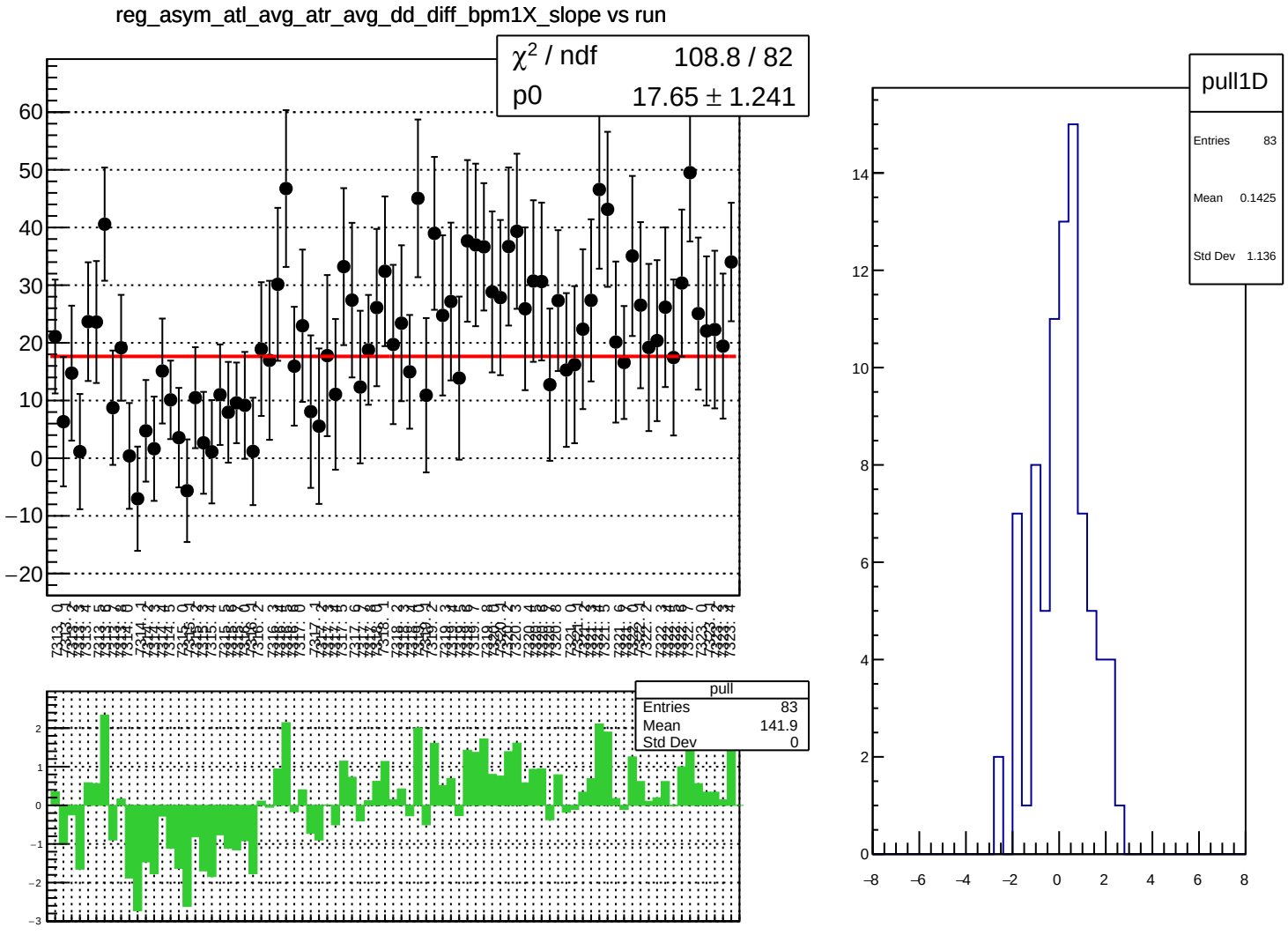

pull1D
Entries 83
Mean −0.1785
Std Dev 0.8769

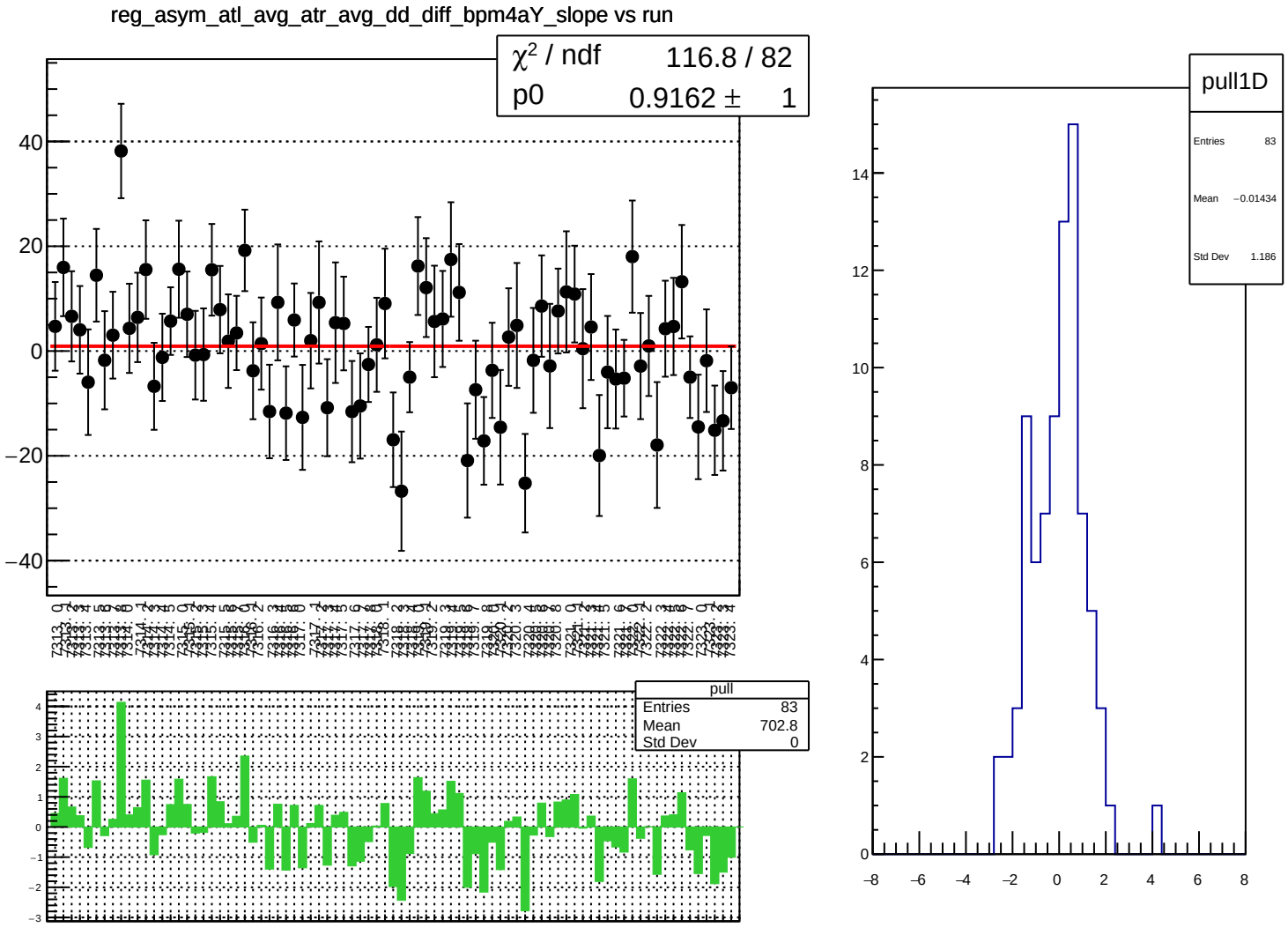

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.3 / 82
p0 −1.89 ± 5.245
pull
Entries 83
Mean 314.7
Std Dev 0
pull1D
Entries 83
Mean 0.03135
Std Dev 0.529

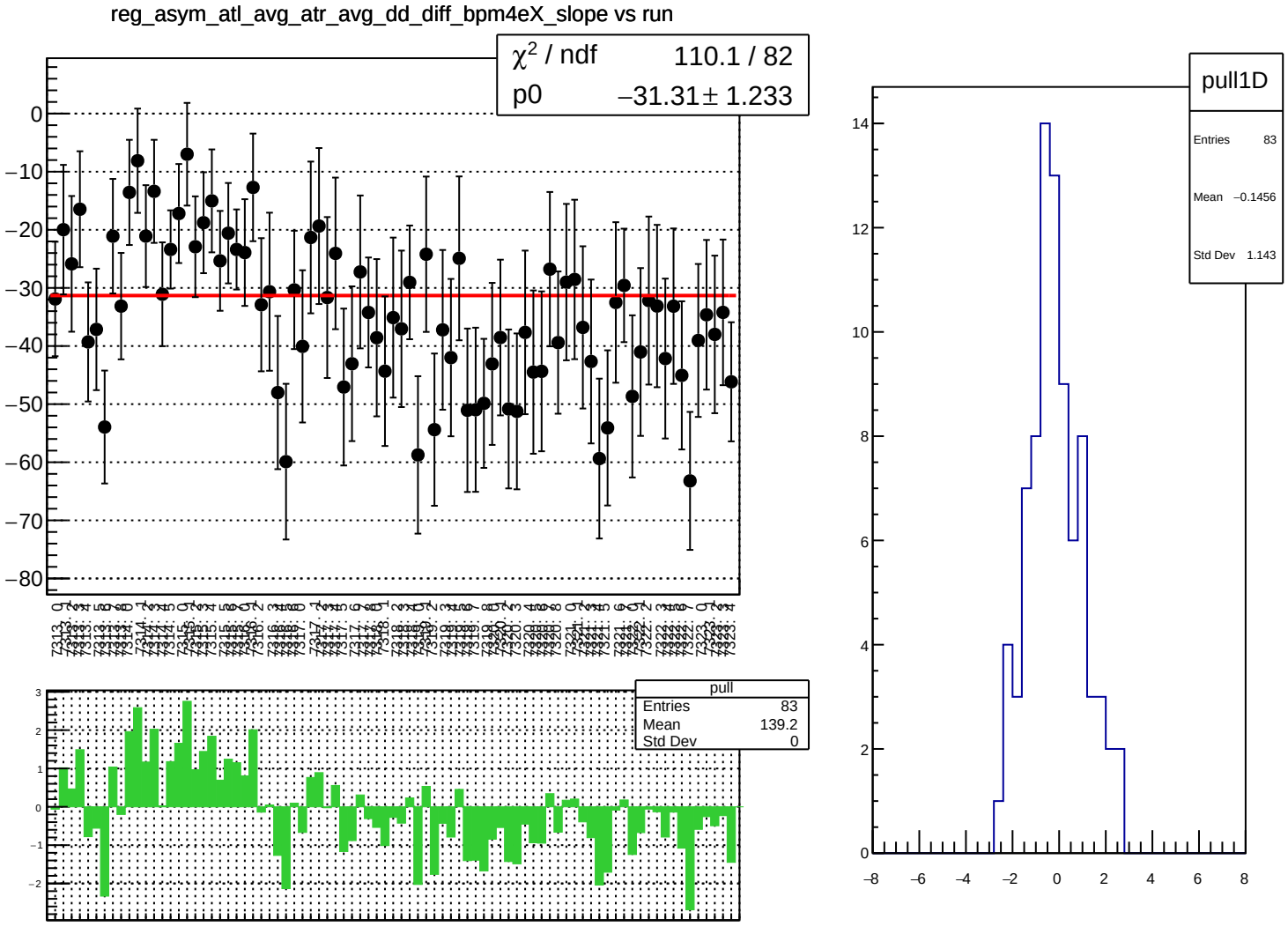

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.21 / 82
p0 201.4 ± 6.436
pull
Entries 83
Mean 123.4
Std Dev 0
pull1D
Entries 83
Mean 0.182
Std Dev 0.8813

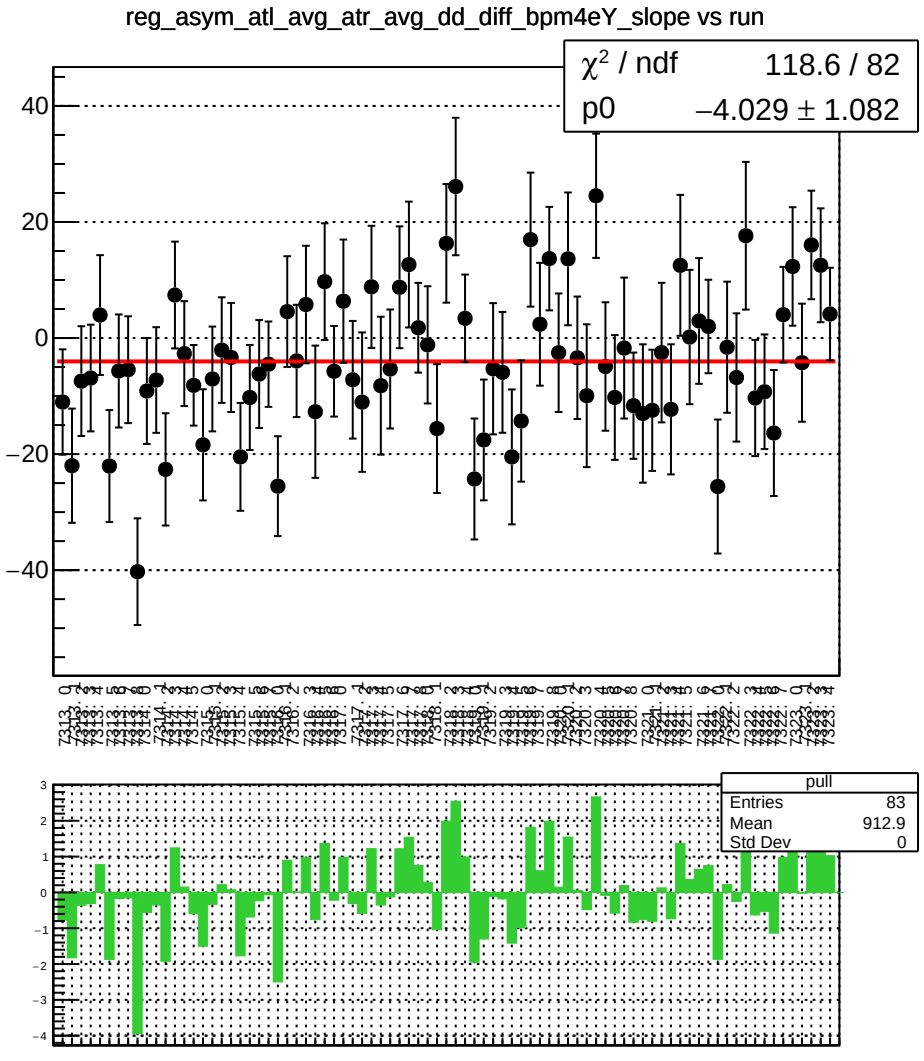

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.52 / 82
p0 59.49 ± 5.669
150
100
50
0
−50
pull
Entries 83
Mean 287.3
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 83
Mean −0.03711
Std Dev 0.5532
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

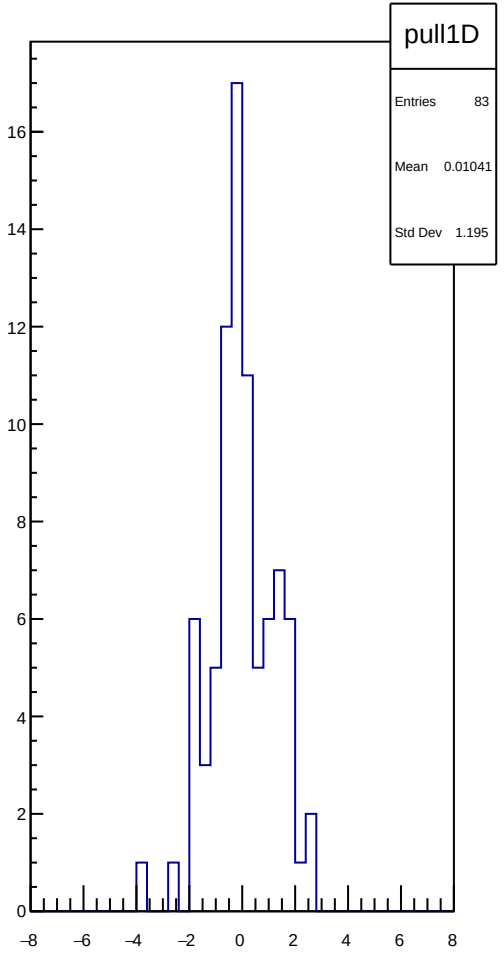

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 58.28 / 82
p0 −121.4 ± 0.2364
pull
Entries 83
Mean −2837
Std Dev 0
pull1D
Entries 83
Mean −0.005261
Std Dev 0.8379

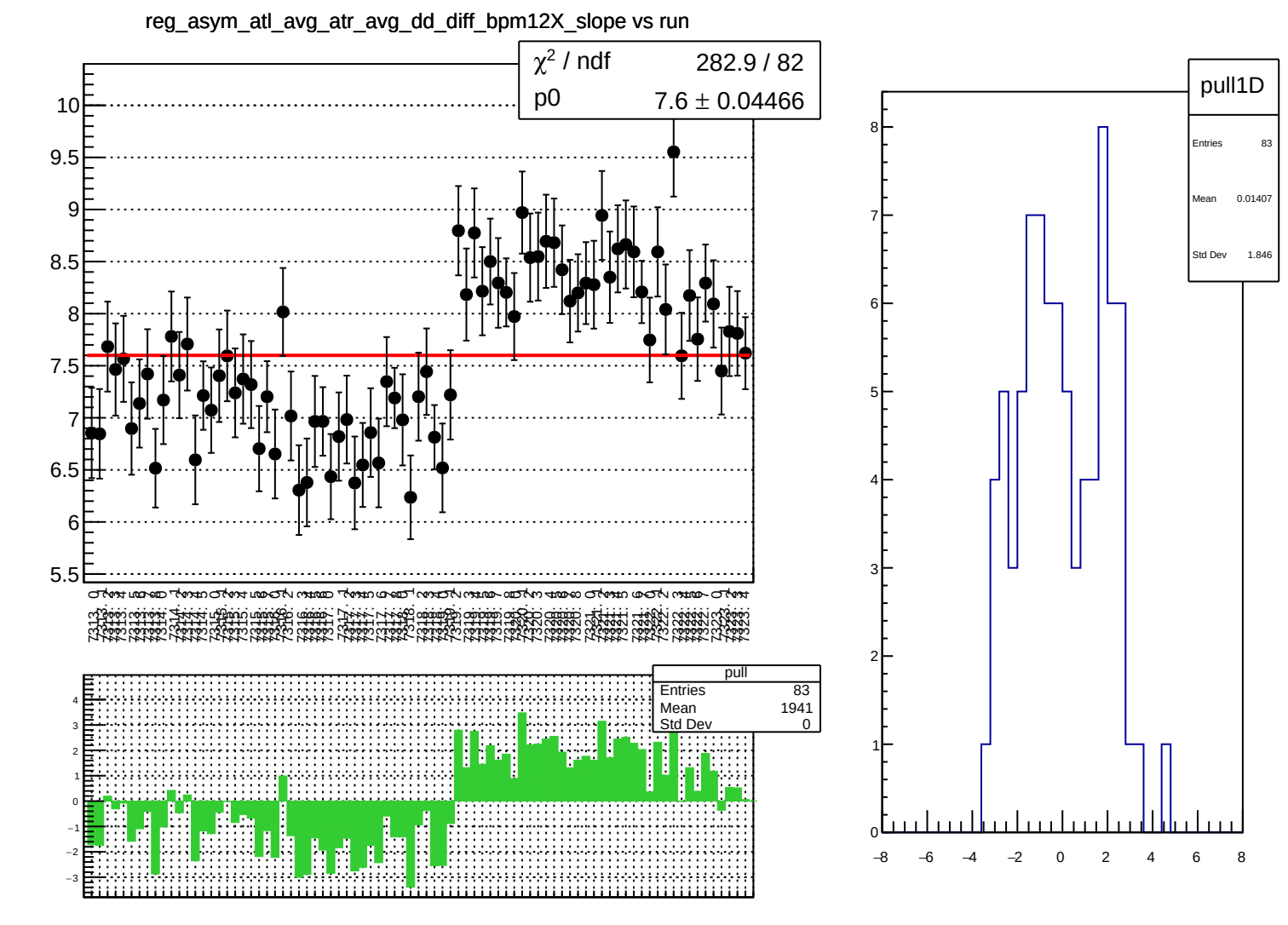

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 108.8 / 82
p0 17.65 ± 1.241
pull
Entries 83
Mean 141.9
Std Dev 0
pull1D
Entries 83
Mean 0.1425
Std Dev 1.136

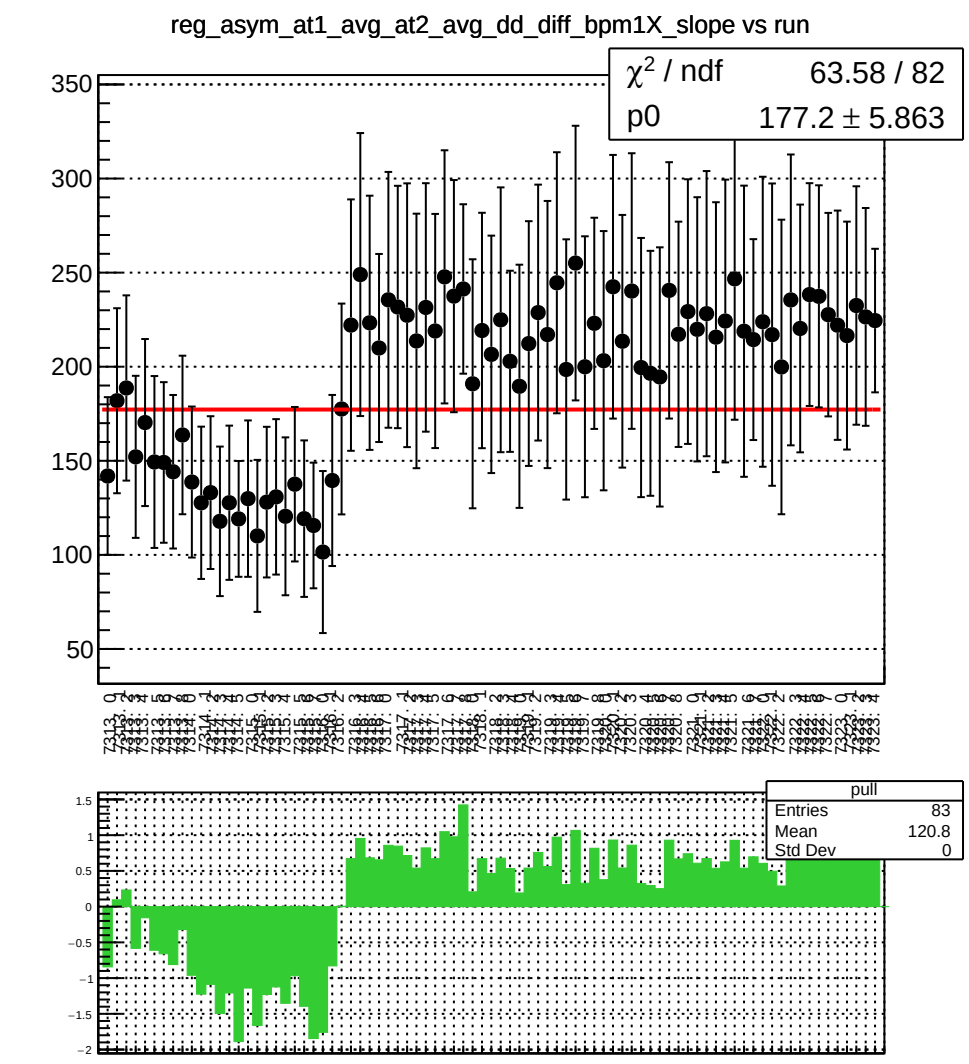

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 116.8 / 82
p0 0.9162 ± 1
pull
Entries 83
Mean 702.8
Std Dev 0
pull1D
Entries 83
Mean −0.01434
Std Dev 1.186

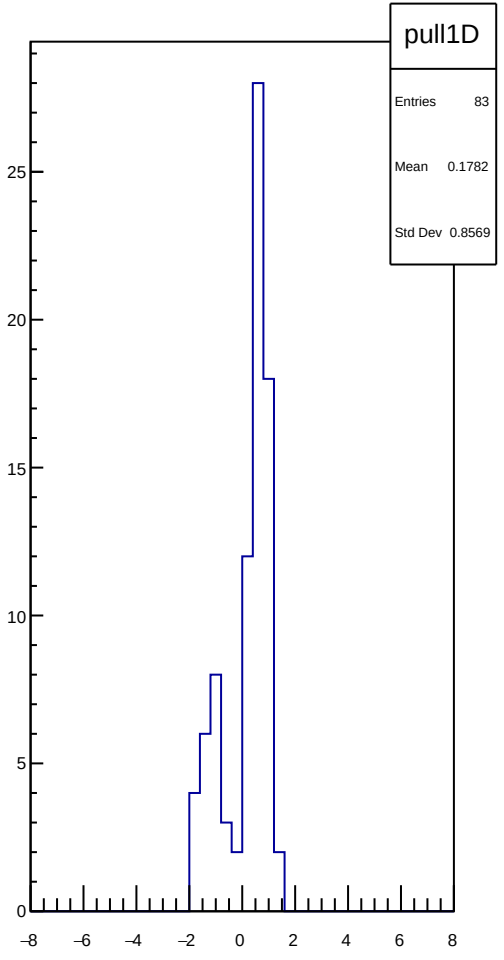

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 110.1 / 82
p0 −31.31 ± 1.233
pull
Entries 83
Mean 139.2
Std Dev 0
pull1D
Entries 83
Mean −0.1456
Std Dev 1.143

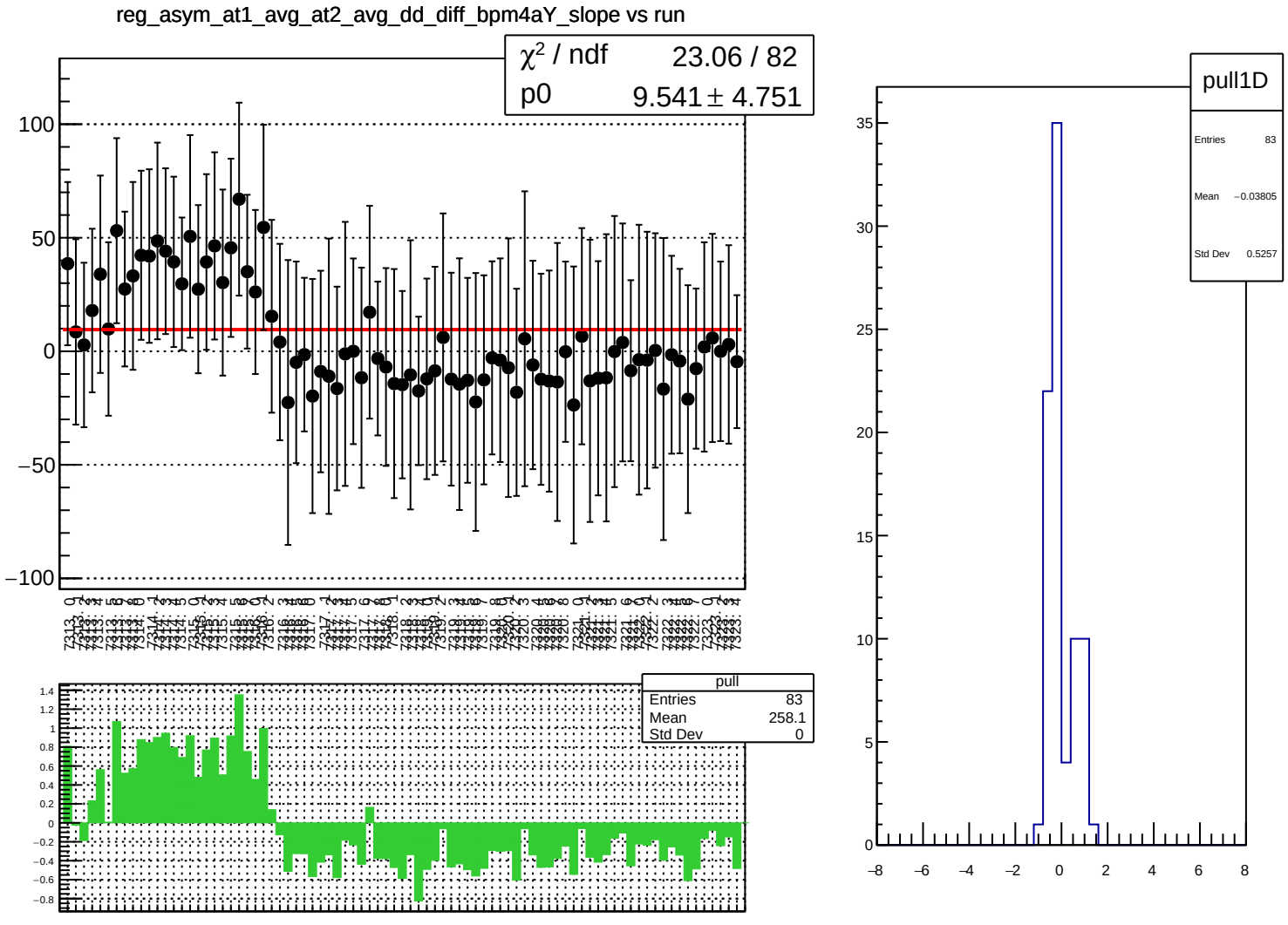

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.6 / 82
p0 −4.029 ± 1.082
pull
Entries 83
Mean 912.9
Std Dev 0

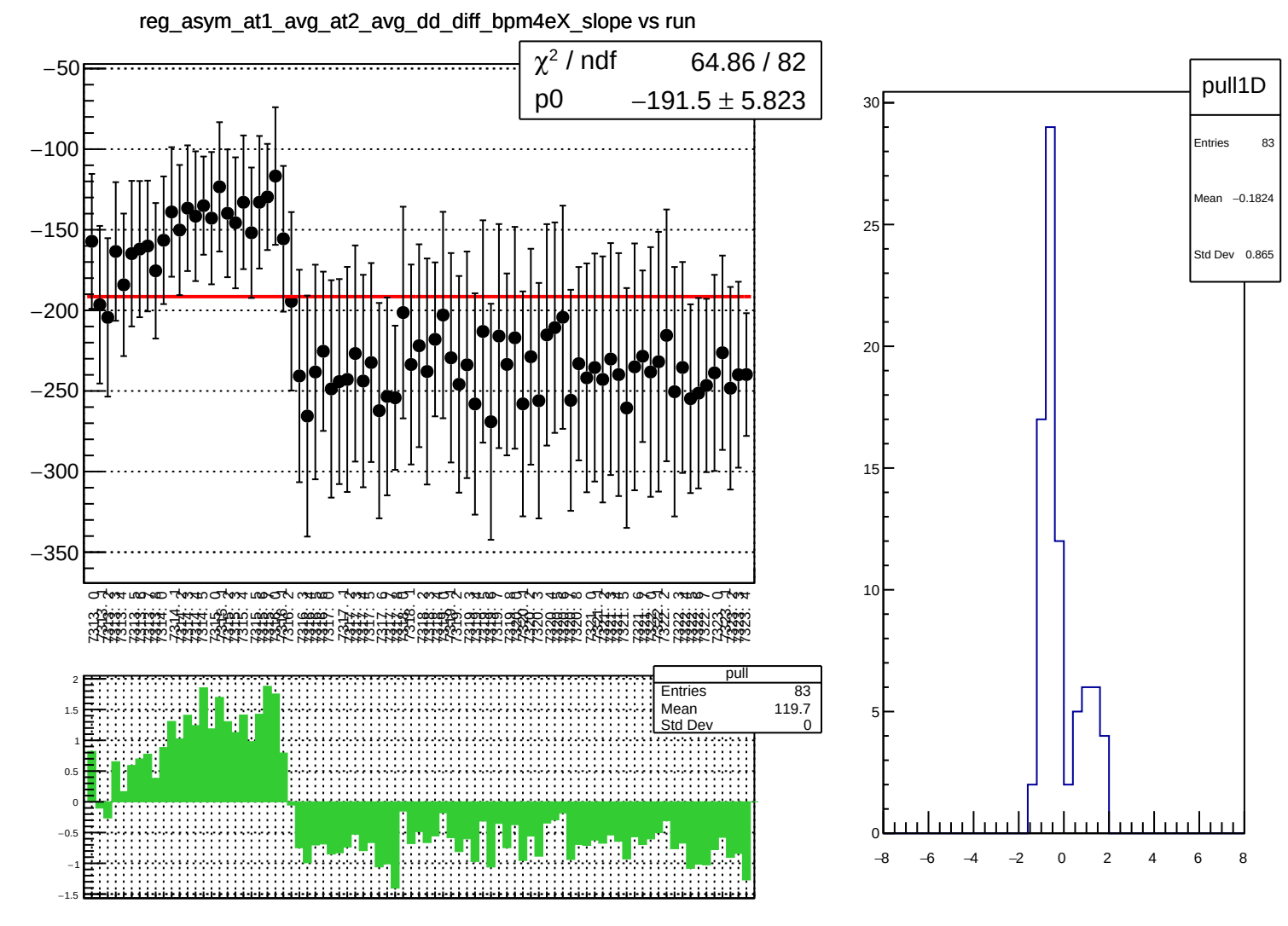

pull1D
Entries 83
Mean 0.01041
Std Dev 1.195

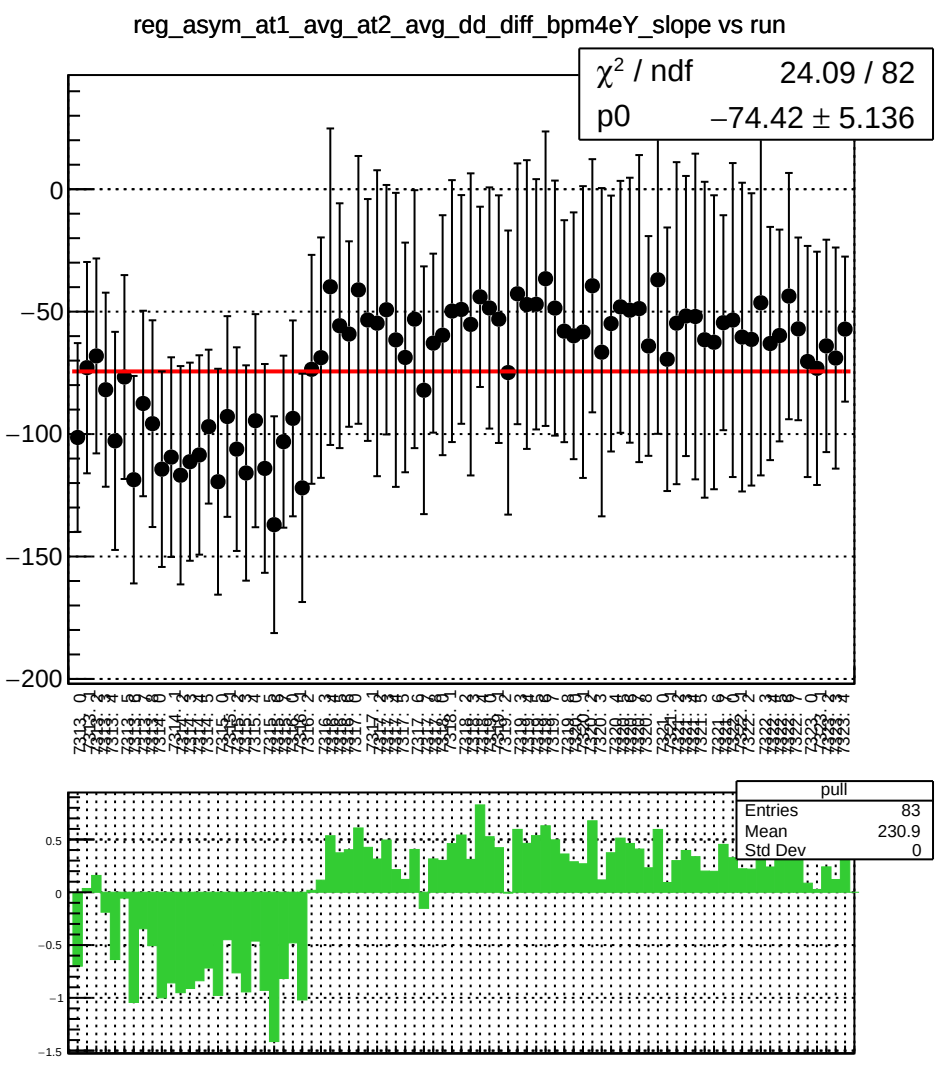

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 282.9 / 82
p0 7.6 ± 0.04466
pull
Entries 83
Mean 1941
Std Dev 0
pull1D
Entries 83
Mean 0.01407
Std Dev 1.846

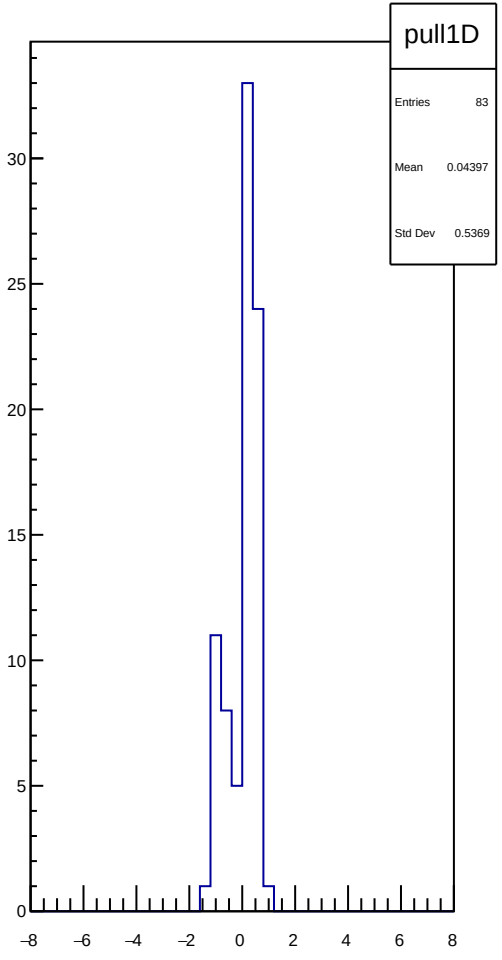

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 63.58 / 82
p0 177.2 ± 5.863
pull
Entries 83
Mean 120.8
Std Dev 0

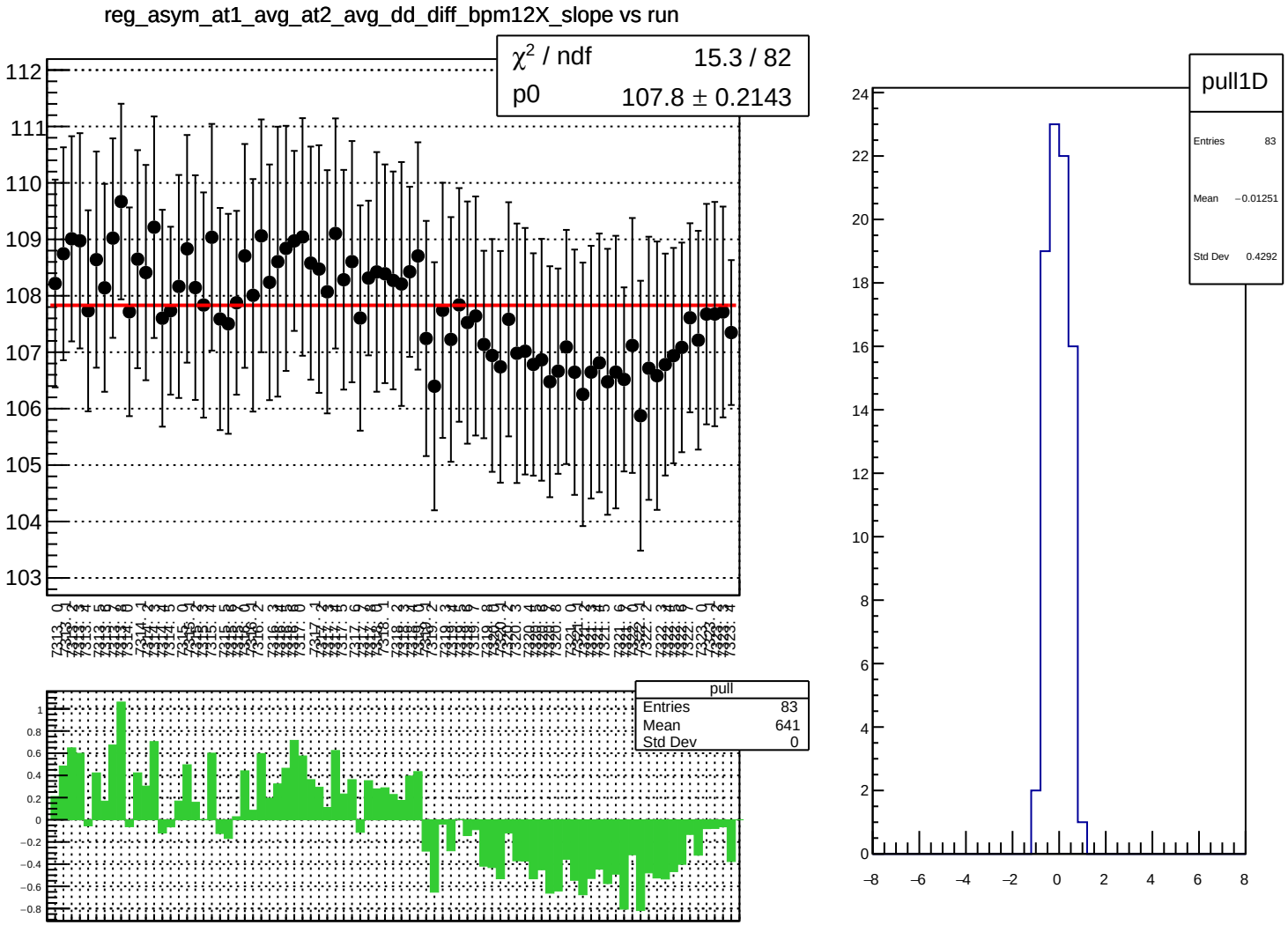

pull1D
Entries 83
Mean 0.1782
Std Dev 0.8569

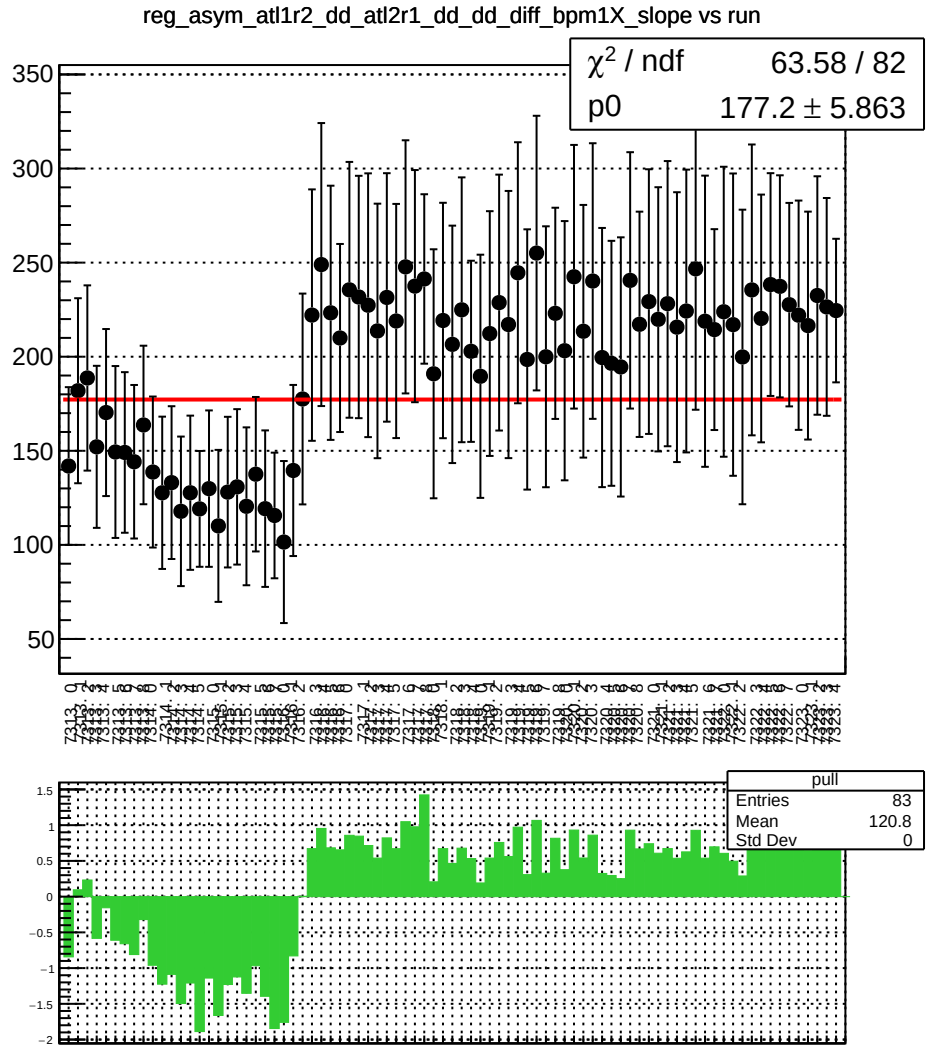

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.06 / 82
p0 9.541 ± 4.751
pull
Entries 83
Mean 258.1
Std Dev 0
pull1D
Entries 83
Mean −0.03805
Std Dev 0.5257

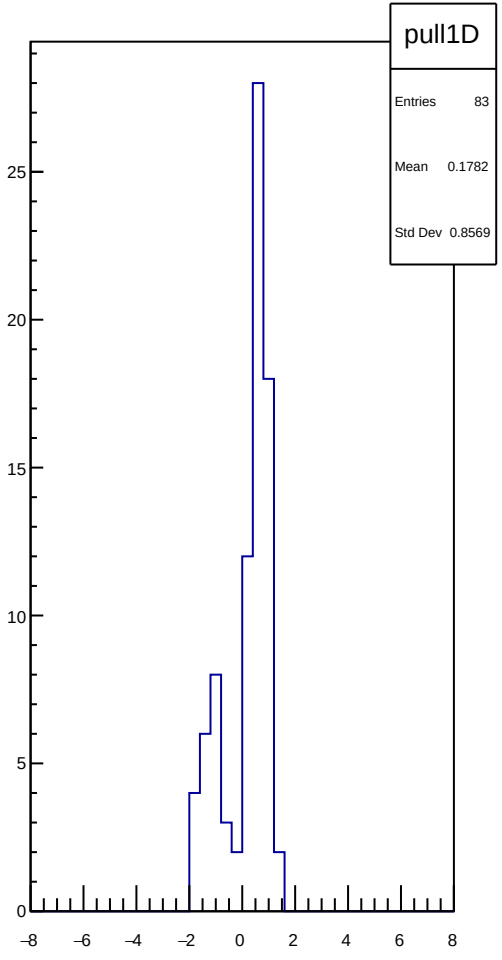

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.86 / 82
p0 −191.5 ± 5.823
pull
Entries 83
Mean 119.7
Std Dev 0
pull1D
Entries 83
Mean −0.1824
Std Dev 0.865

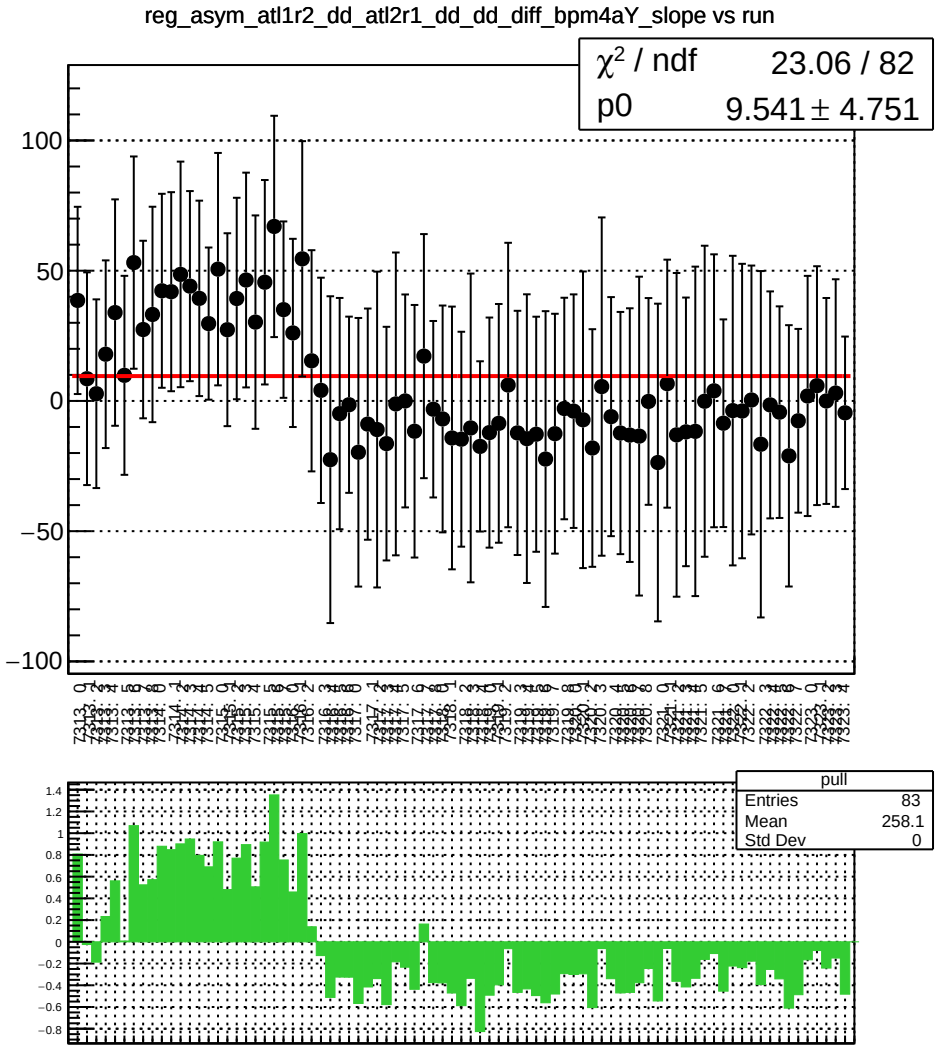

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.09 / 82
p0 −74.42 ± 5.136
pull
Entries 83
Mean 230.9
Std Dev 0

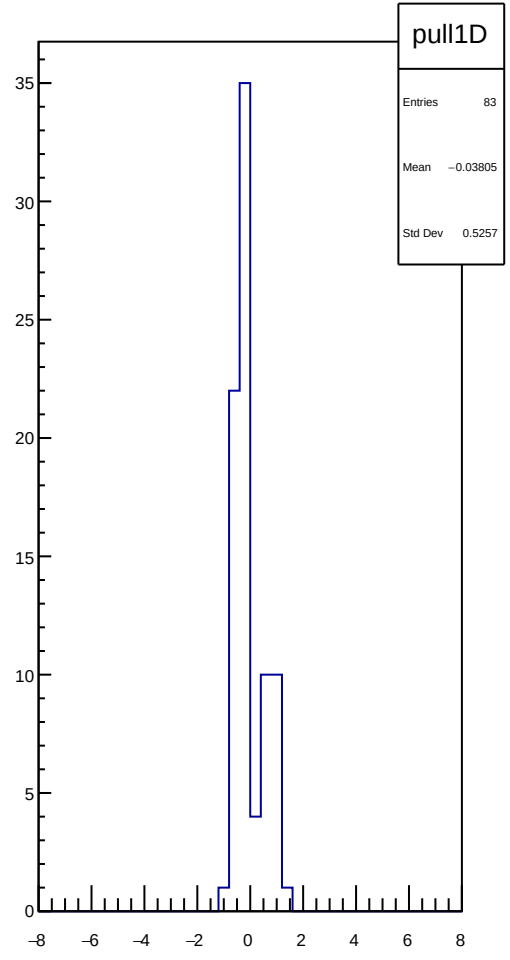

pull1D
Entries 83
Mean 0.04397
Std Dev 0.5369

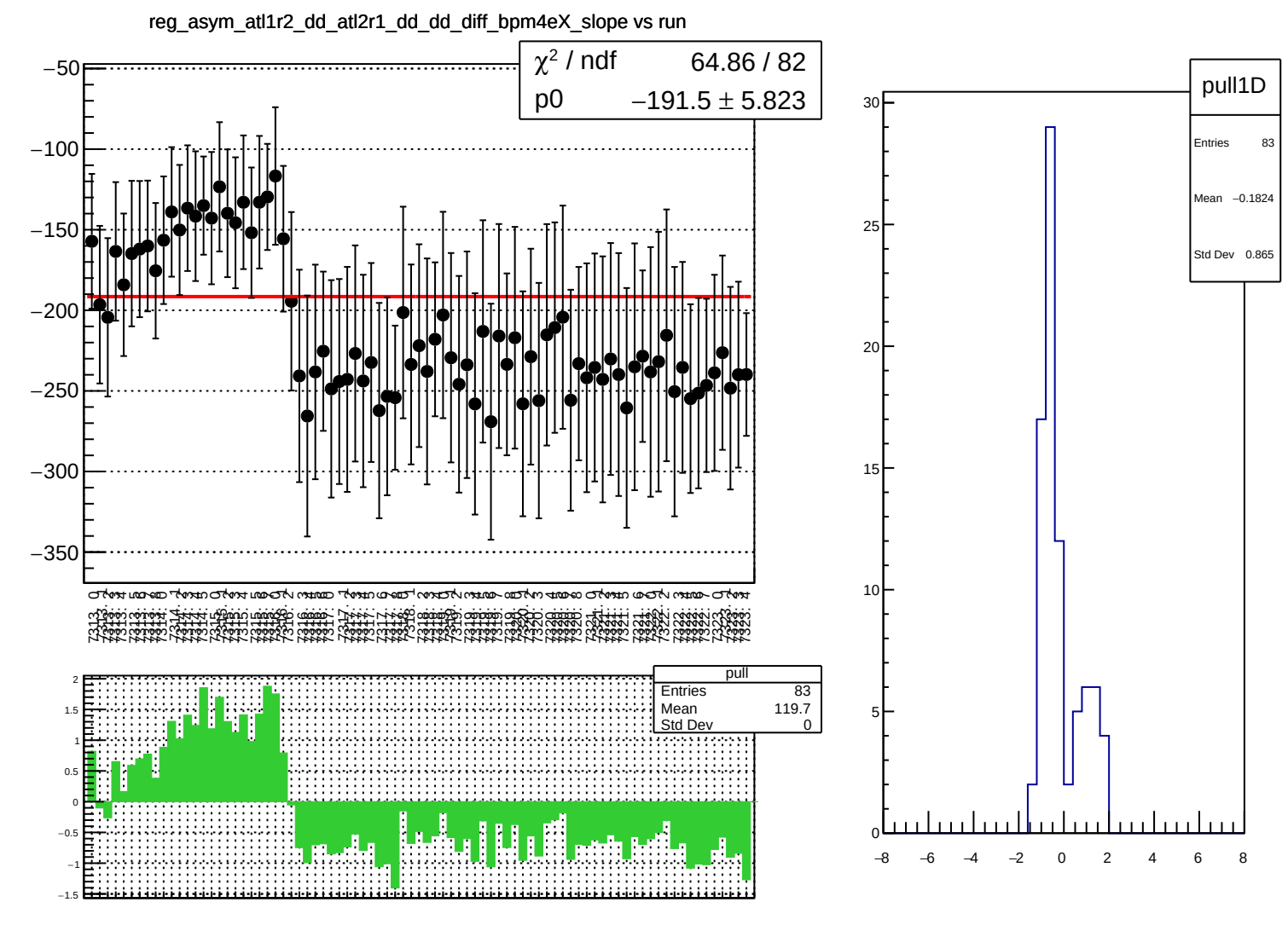

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 15.3 / 82
p0 107.8 ± 0.2143
pull
Entries 83
Mean 641
Std Dev 0
pull1D
Entries 83
Mean −0.01251
Std Dev 0.4292

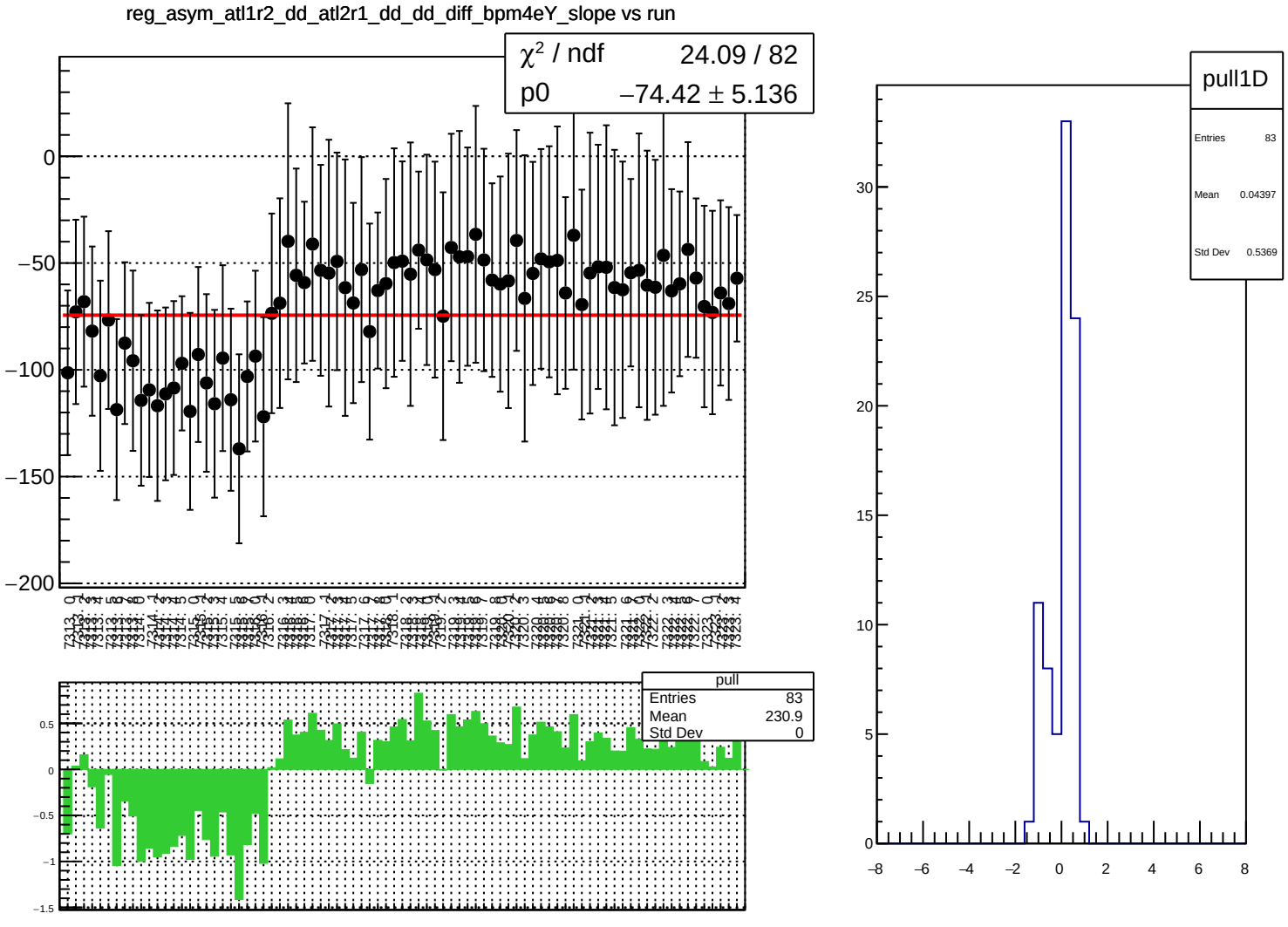

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 63.58 / 82
p0 177.2 ± 5.863
pull
Entries 83
Mean 120.8
Std Dev 0

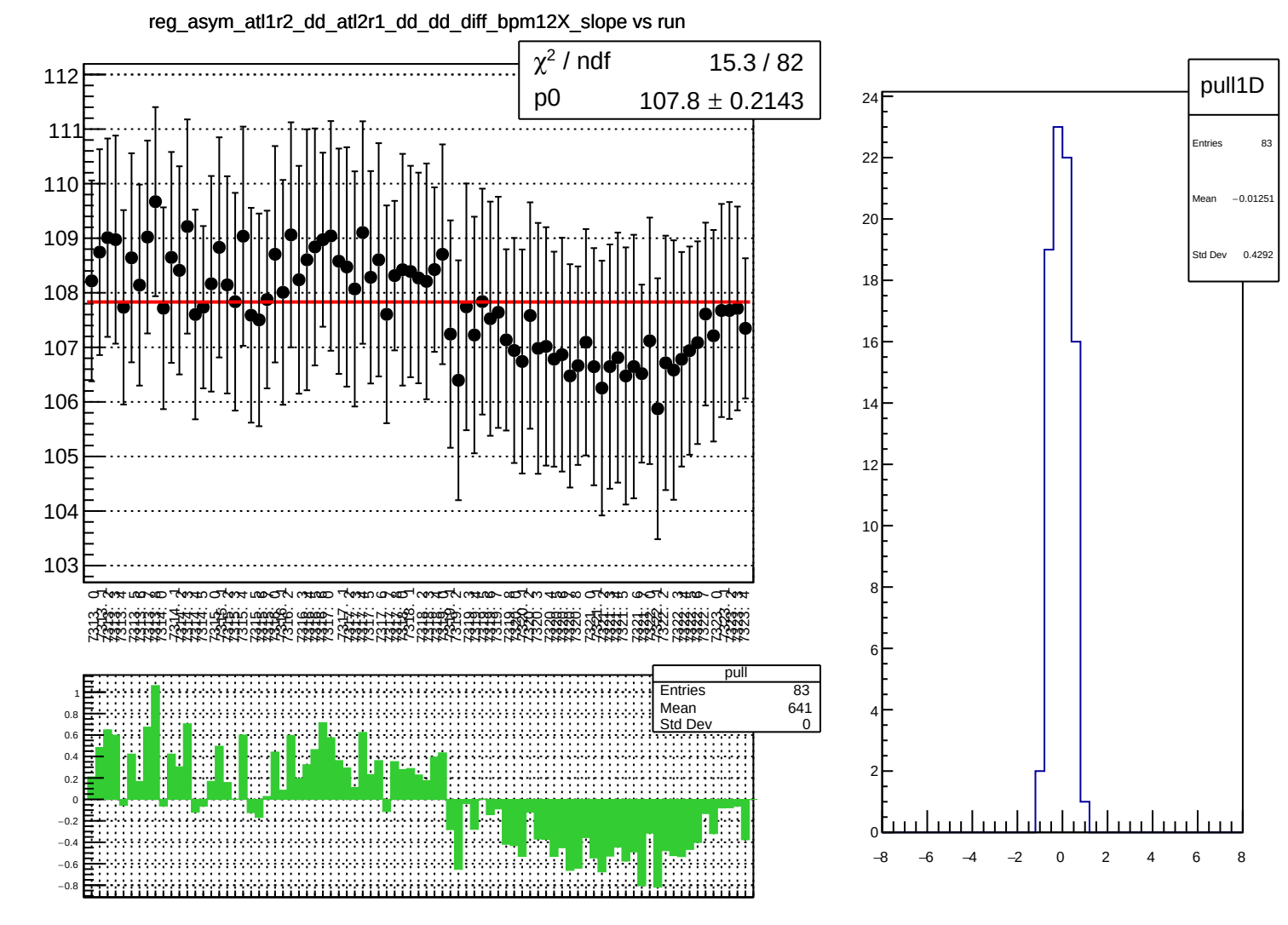

pull1D
Entries 83
Mean 0.1782
Std Dev 0.8569

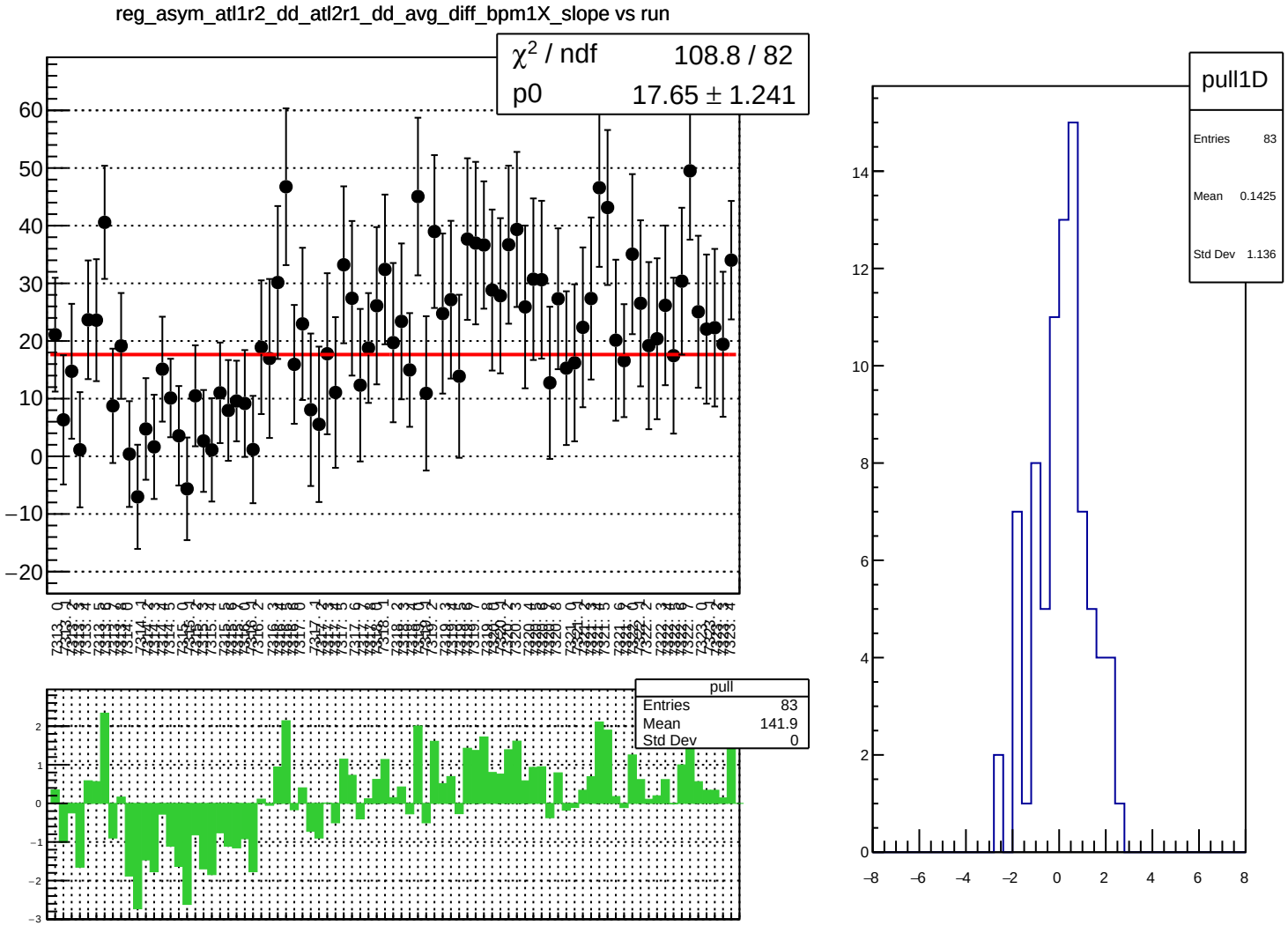

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.06 / 82
p0 9.541 ± 4.751
pull
Entries 83
Mean 258.1
Std Dev 0

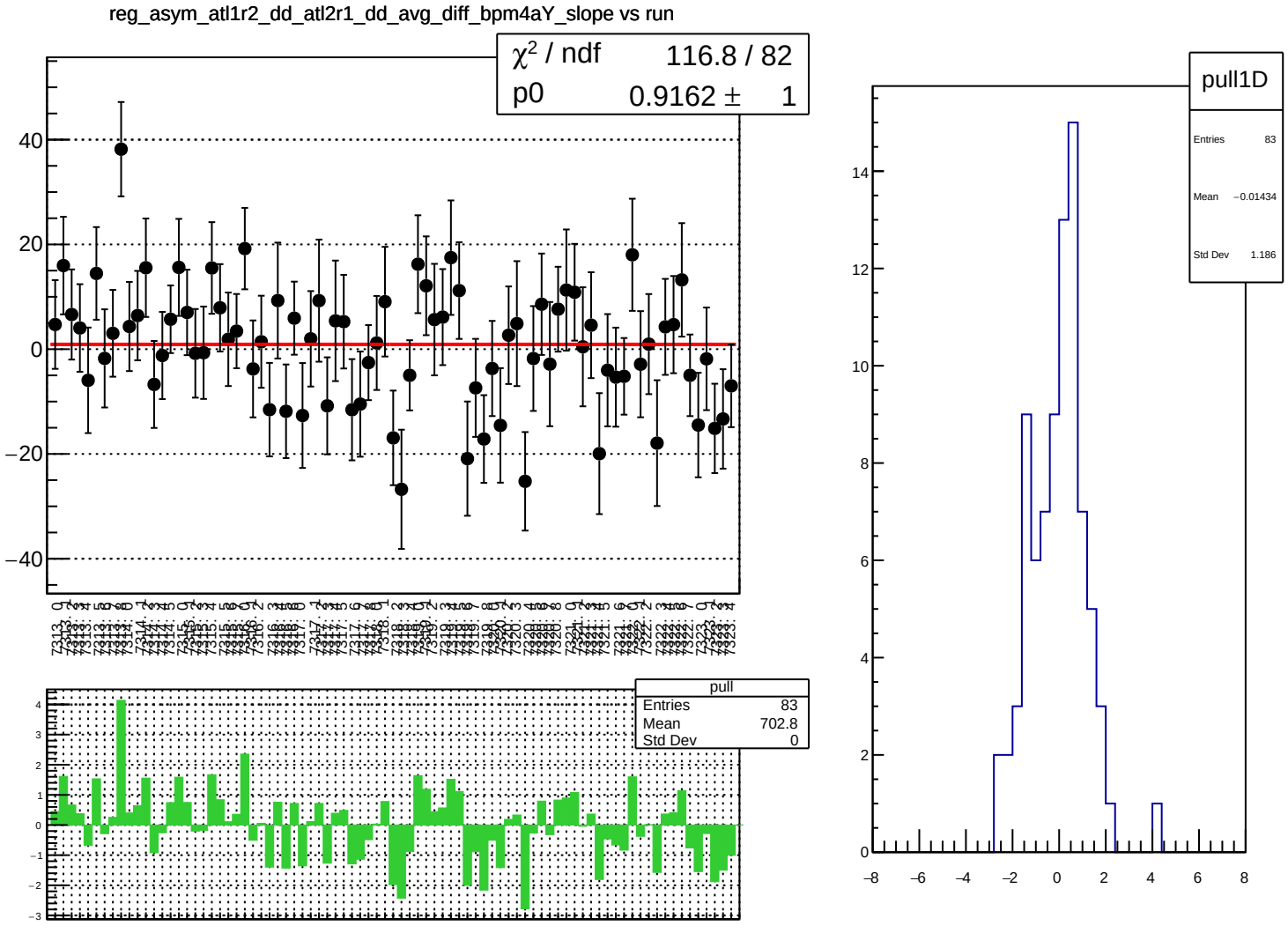

pull1D
Entries 83
Mean −0.03805
Std Dev 0.5257

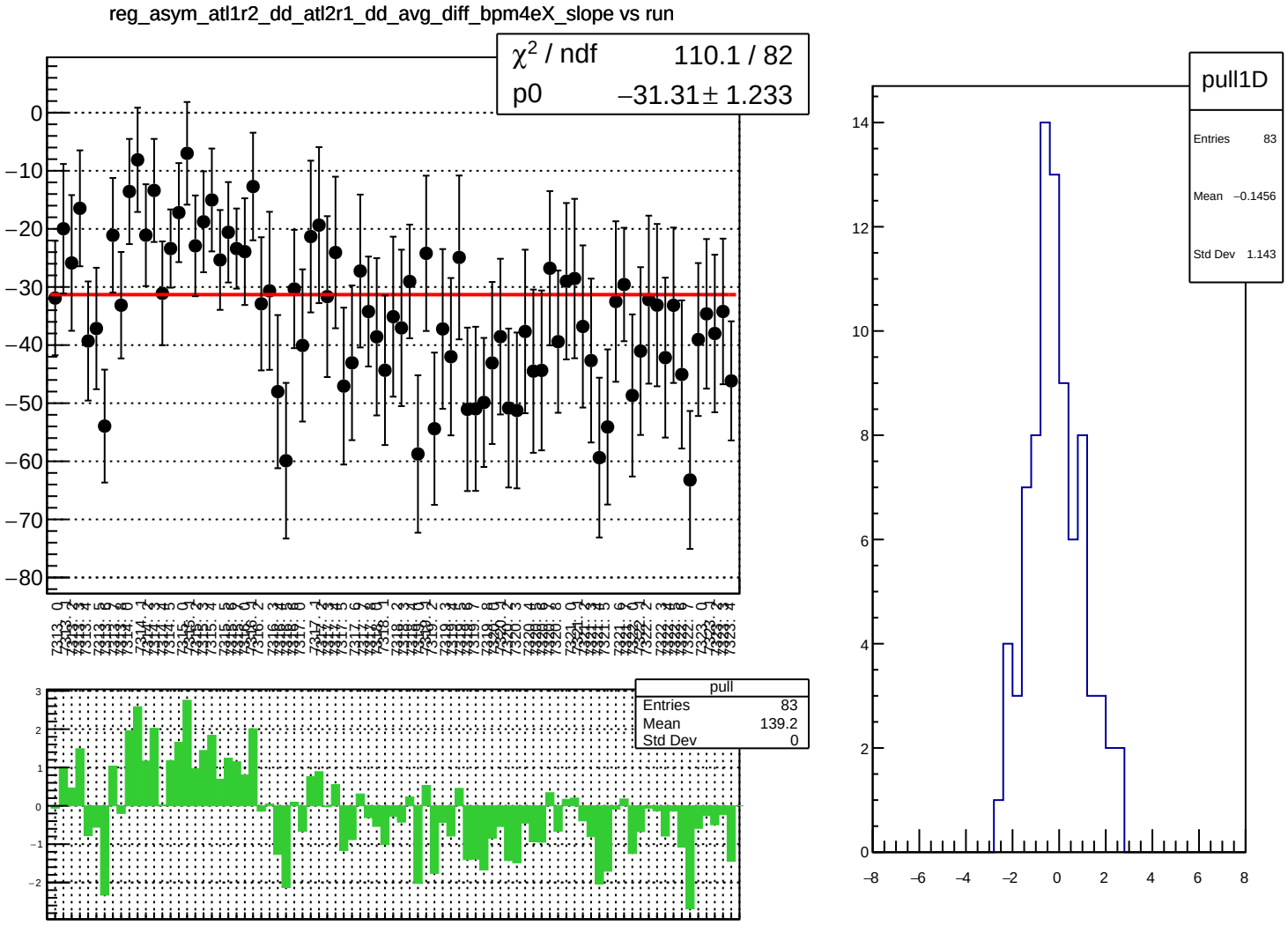

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.86 / 82
p0 −191.5 ± 5.823
pull
Entries 83
Mean 119.7
Std Dev 0
pull1D
Entries 83
Mean −0.1824
Std Dev 0.865

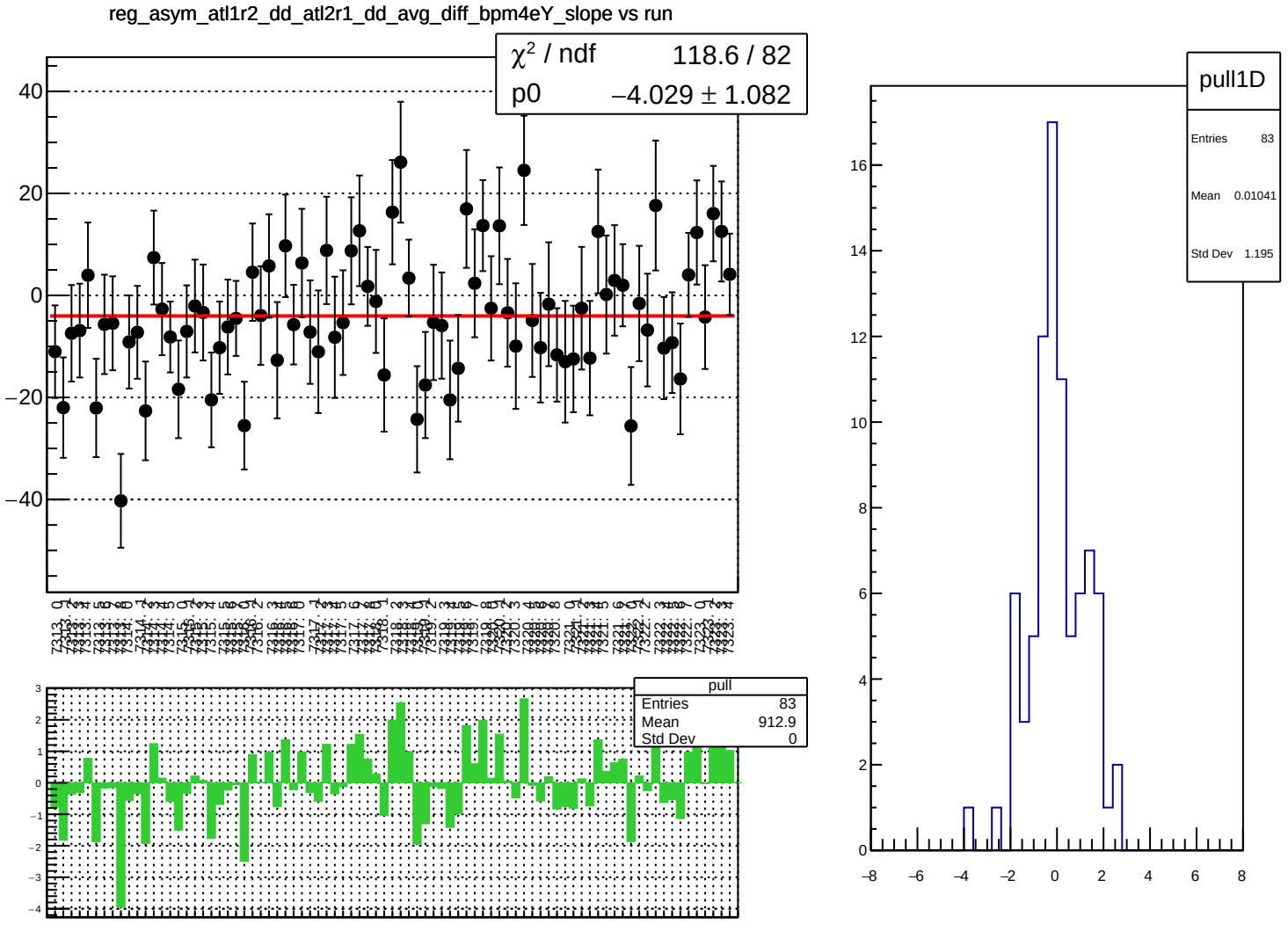

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.09 / 82
p0 −74.42 ± 5.136
pull
Entries 83
Mean 230.9
Std Dev 0
pull1D
Entries 83
Mean 0.04397
Std Dev 0.5369

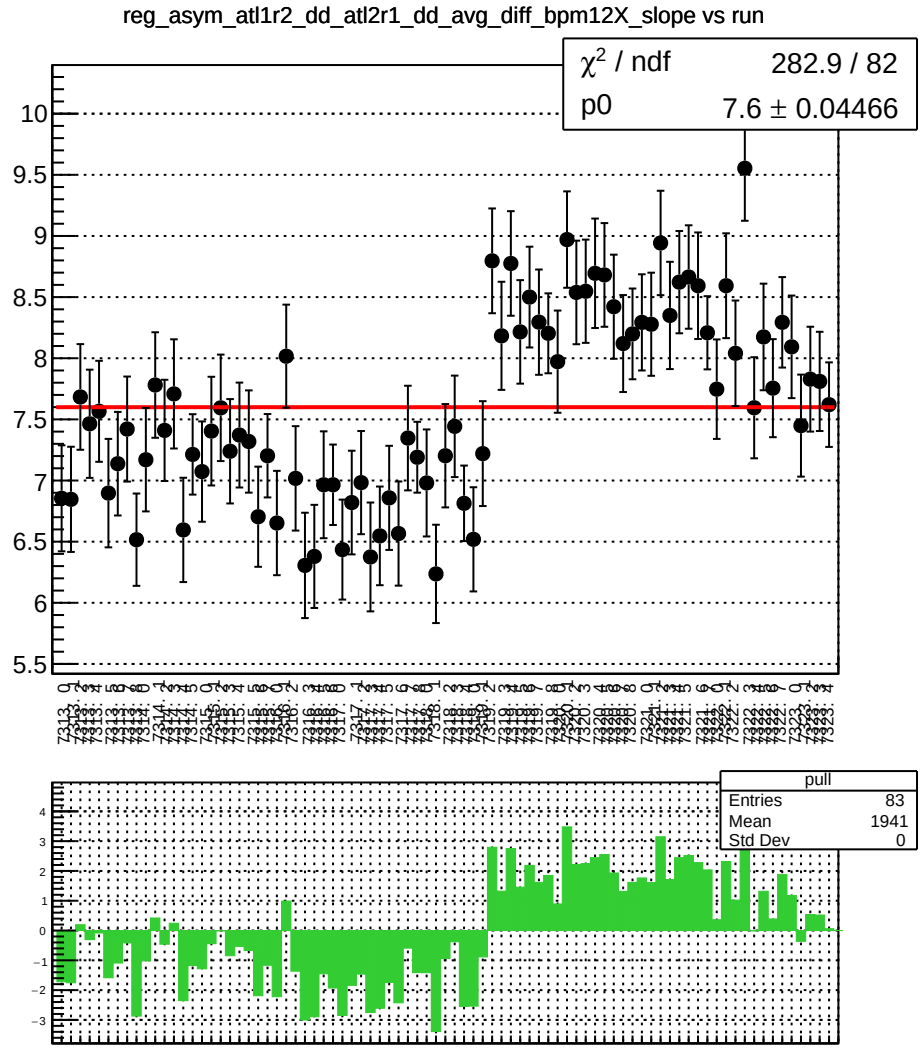

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 15.3 / 82
p0 107.8 ± 0.2143
pull
Entries 83
Mean 641
Std Dev 0
pull1D
Entries 83
Mean −0.01251
Std Dev 0.4292

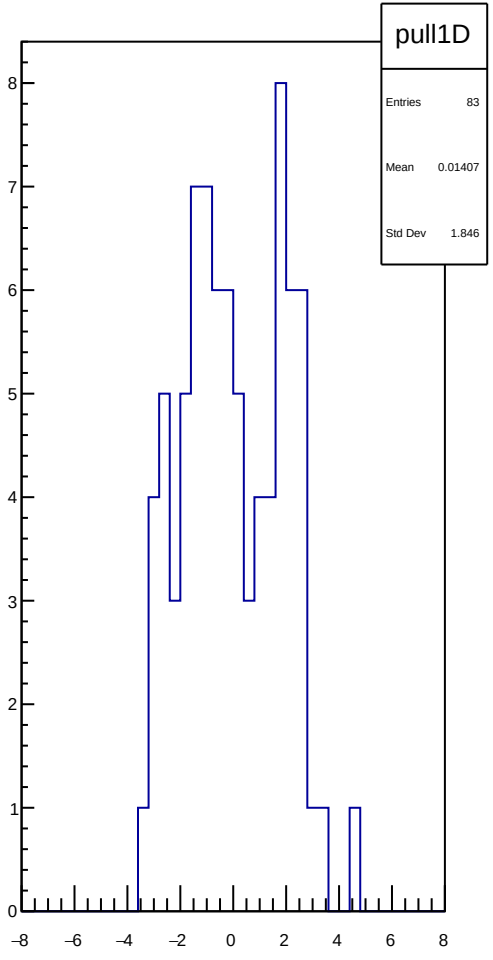

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 108.8 / 82
p0 17.65 ± 1.241
pull
Entries 83
Mean 141.9
Std Dev 0
pull1D
Entries 83
Mean 0.1425
Std Dev 1.136

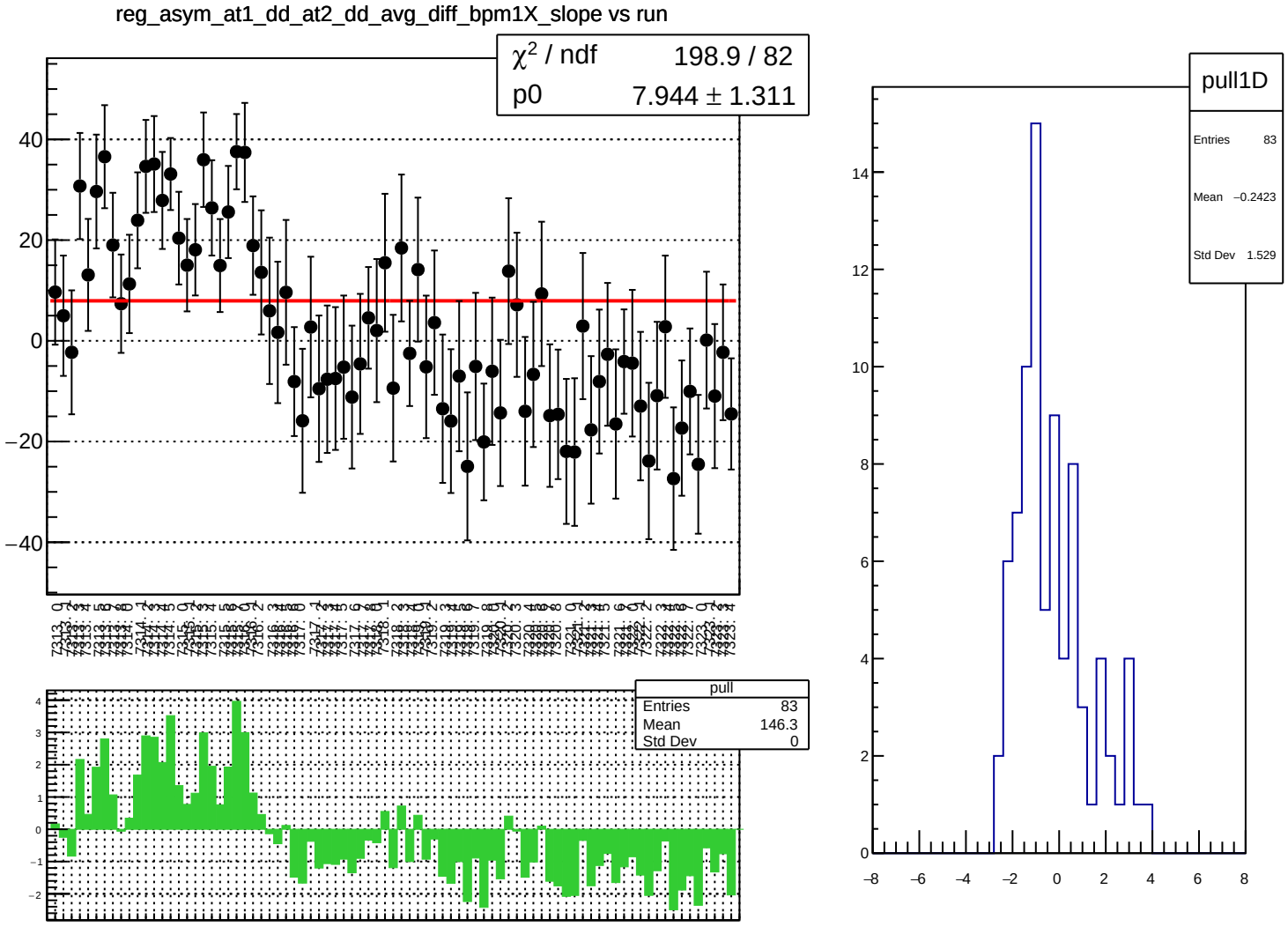

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.8 / 82
p0 0.9162 ± 1
pull
Entries 83
Mean 702.8
Std Dev 0
pull1D
Entries 83
Mean −0.01434
Std Dev 1.186

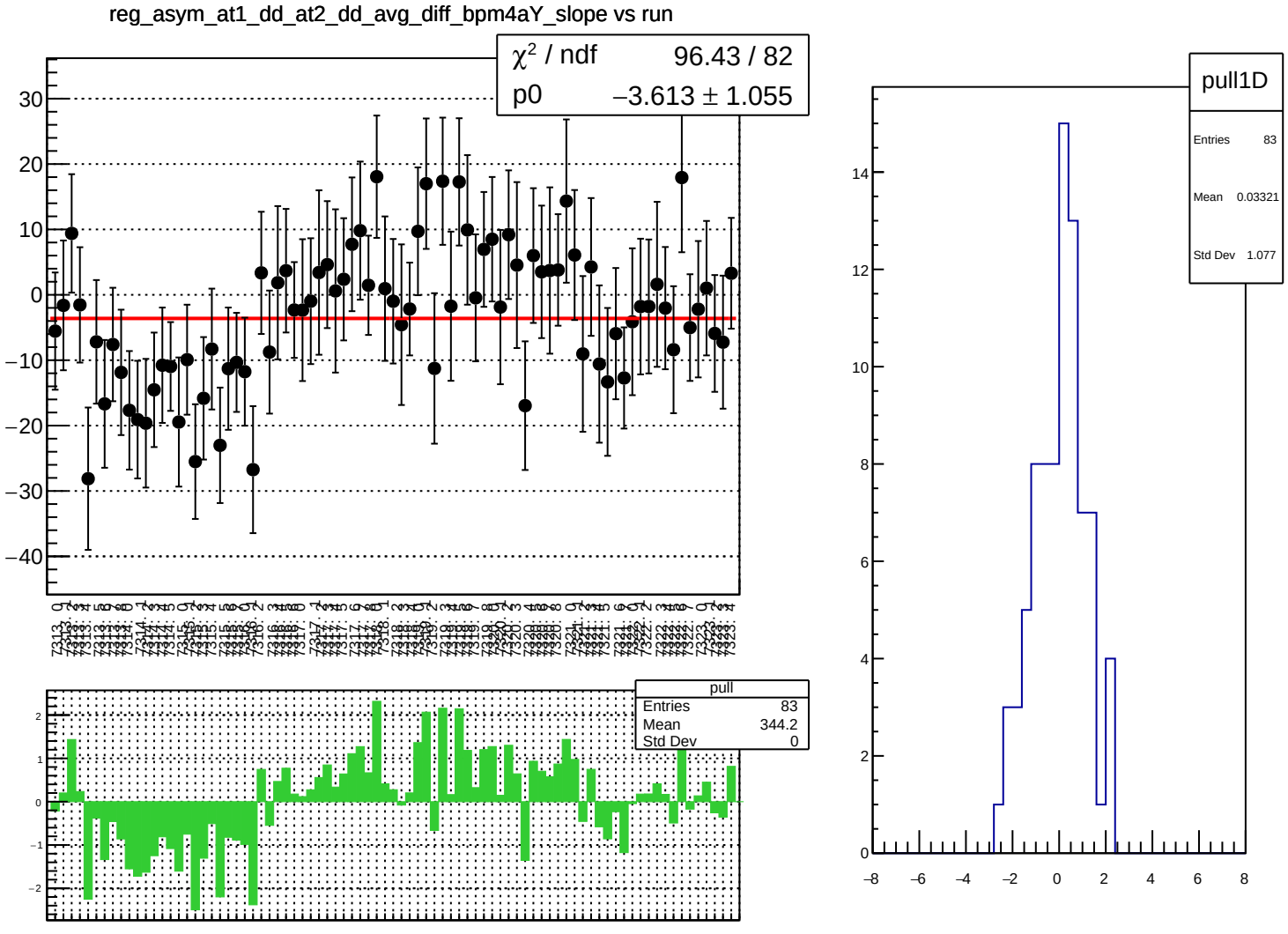

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 110.1 / 82
p0 −31.31± 1.233
pull
Entries 83
Mean 139.2
Std Dev 0
pull1D
Entries 83
Mean −0.1456
Std Dev 1.143

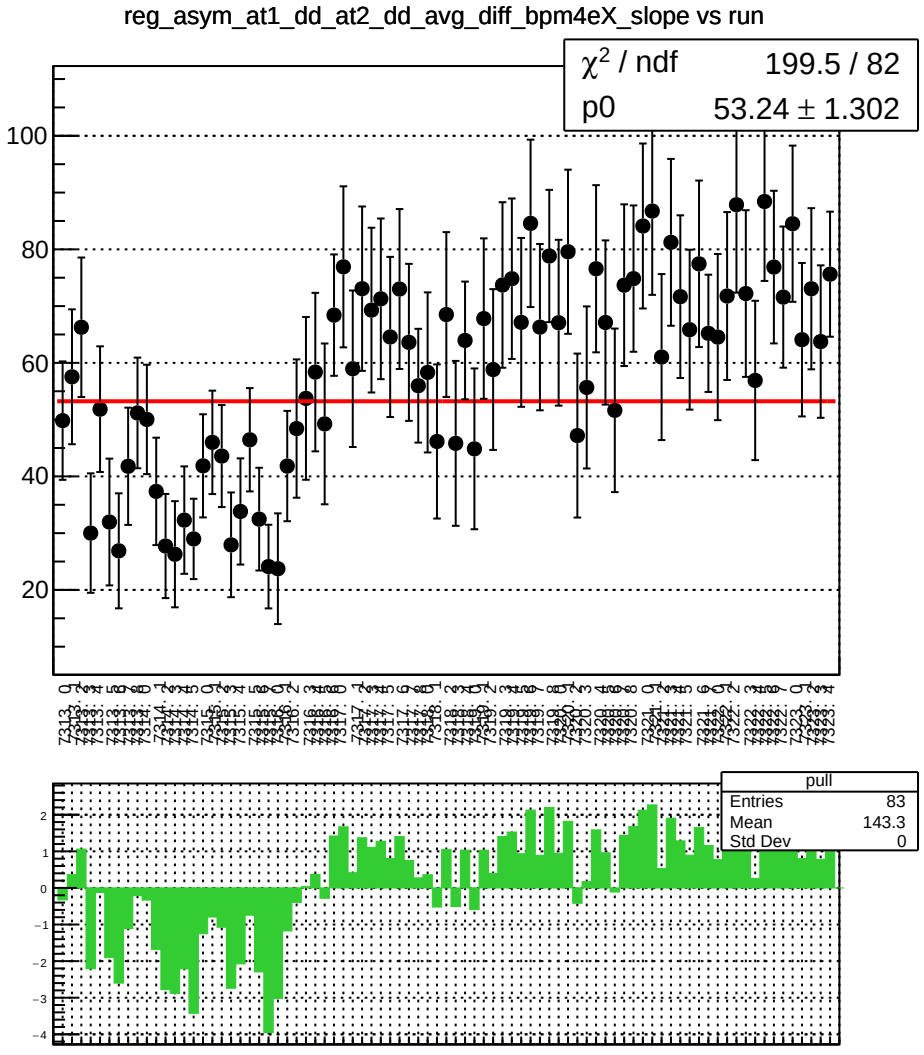

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 118.6 / 82
p0 −4.029 ± 1.082
pull
Entries 83
Mean 912.9
Std Dev 0
pull1D
Entries 83
Mean 0.01041
Std Dev 1.195

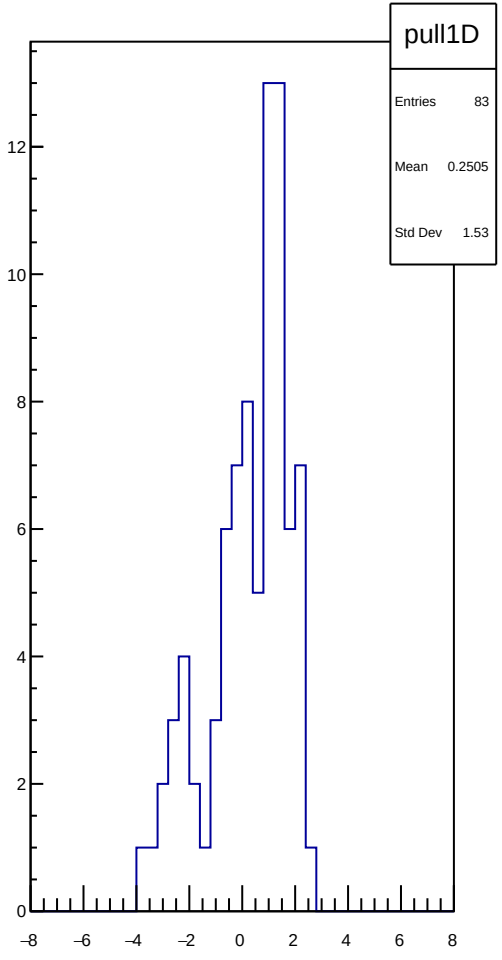

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 282.9 / 82
p0 7.6 ± 0.04466
pull
Entries 83
Mean 1941
Std Dev 0

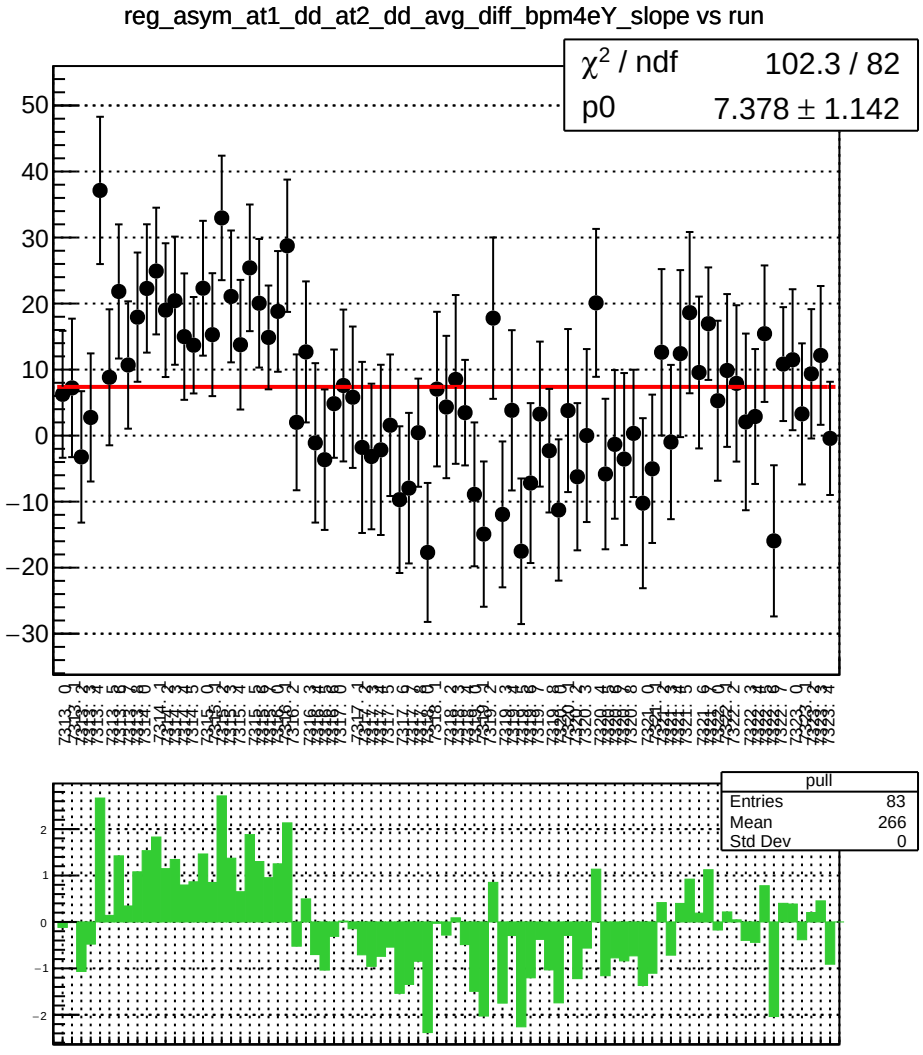

pull1D
Entries 83
Mean 0.01407
Std Dev 1.846

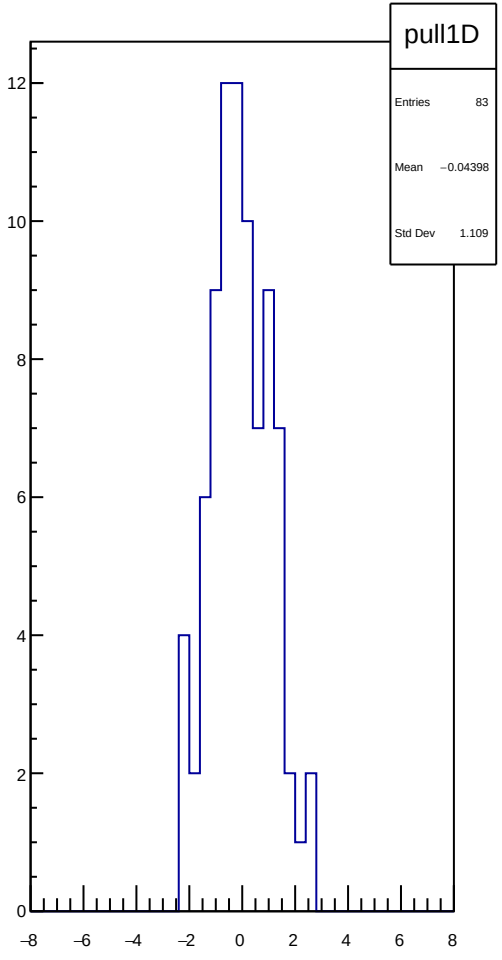

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 198.9 / 82
p0 7.944 ± 1.311
40
20
0
−20
−40
pull
Entries 83
Mean 146.3
Std Dev 0
pull1D
Entries 83
Mean −0.2423
Std Dev 1.529

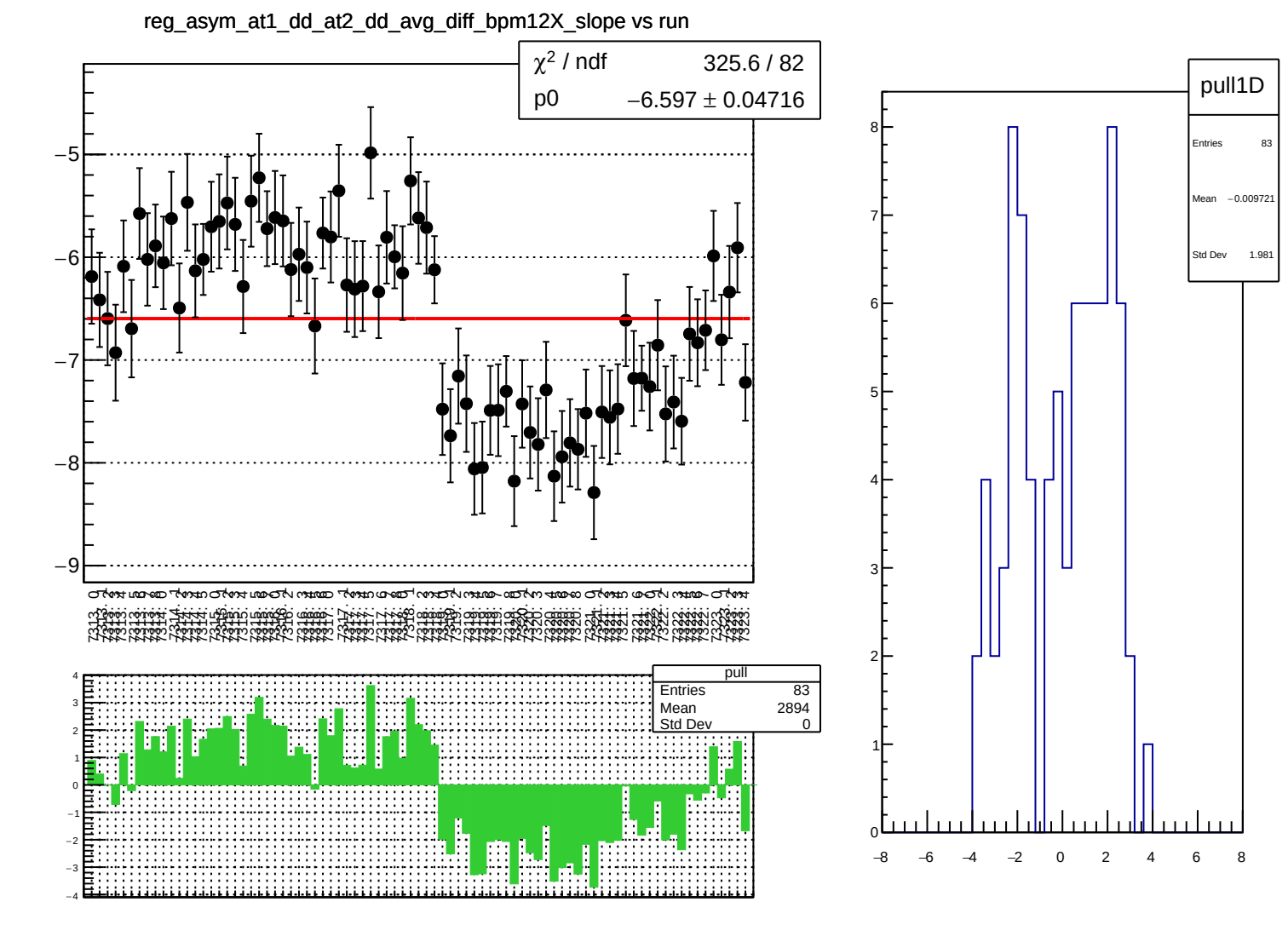

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.43 / 82
p0 −3.613 ± 1.055
pull
Entries 83
Mean 344.2
Std Dev 0
pull1D
Entries 83
Mean 0.03321
Std Dev 1.077

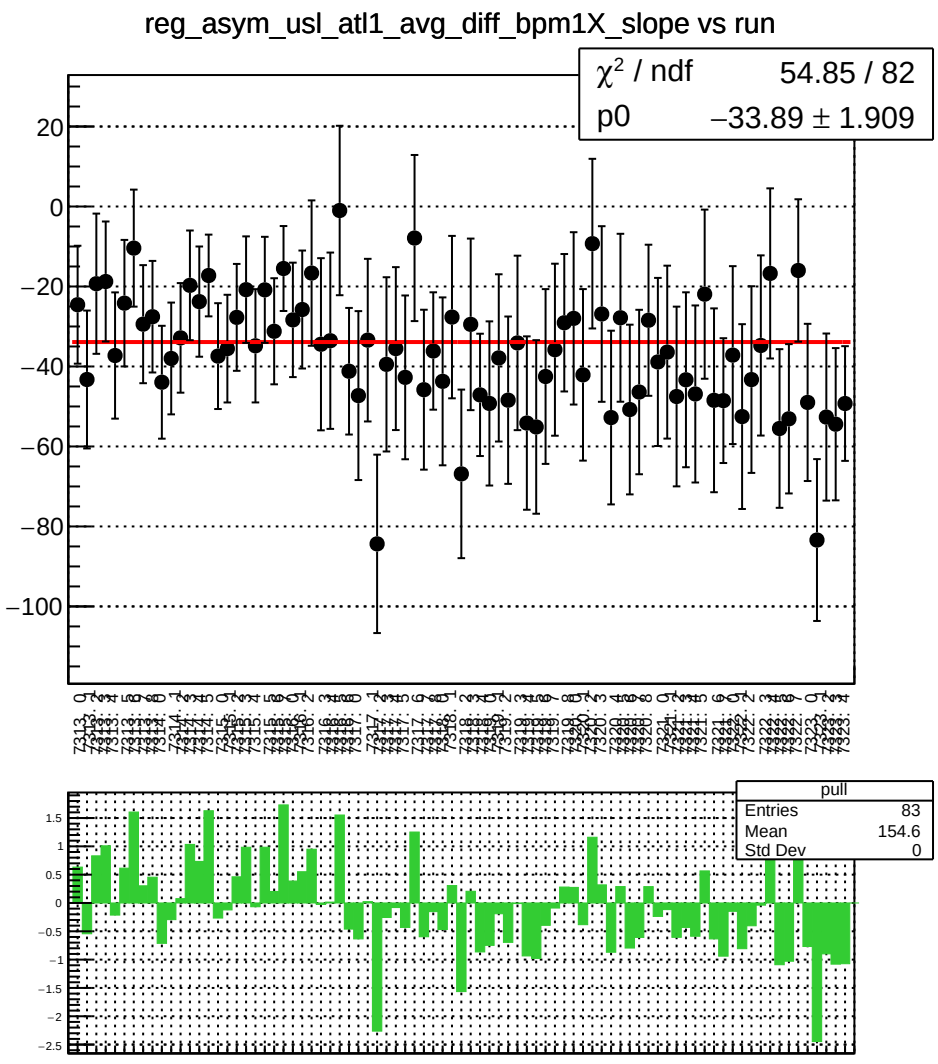

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 199.5 / 82
p0 53.24 ± 1.302
pull
Entries 83
Mean 143.3
Std Dev 0

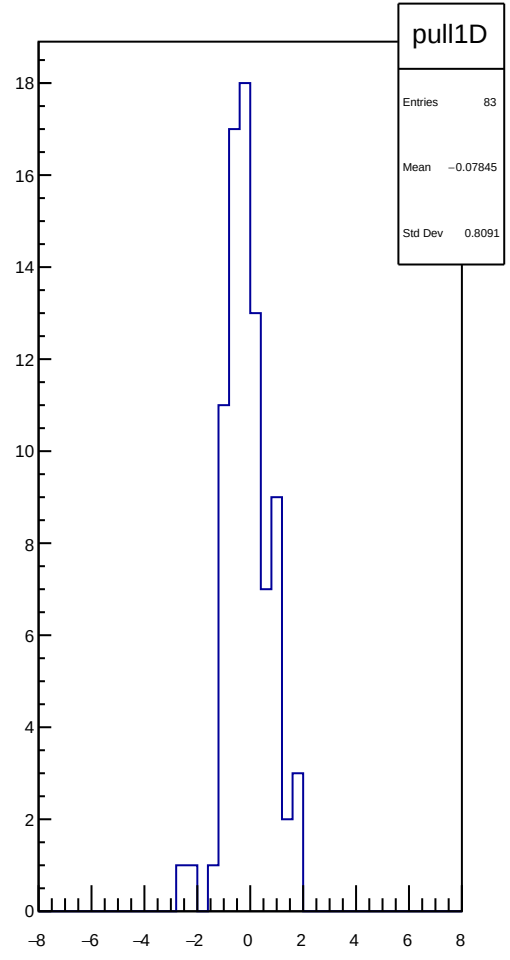

pull1D
Entries 83
Mean 0.2505
Std Dev 1.53

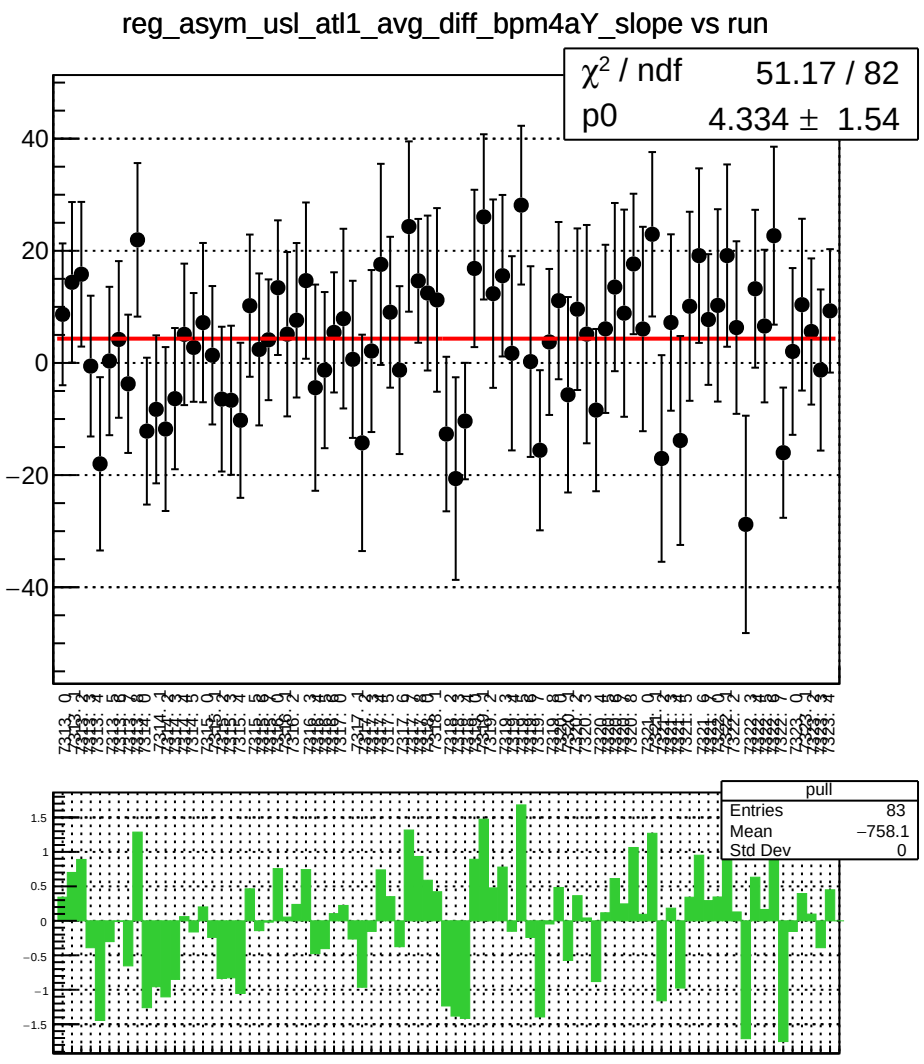

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.3 / 82
p0 7.378 ± 1.142
pull
Entries 83
Mean 266
Std Dev 0

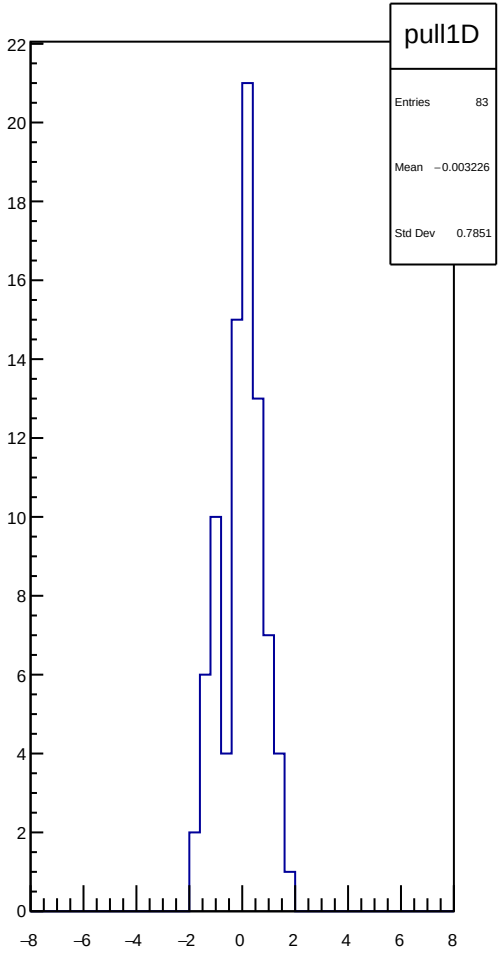

pull1D
Entries 83
Mean −0.04398
Std Dev 1.109

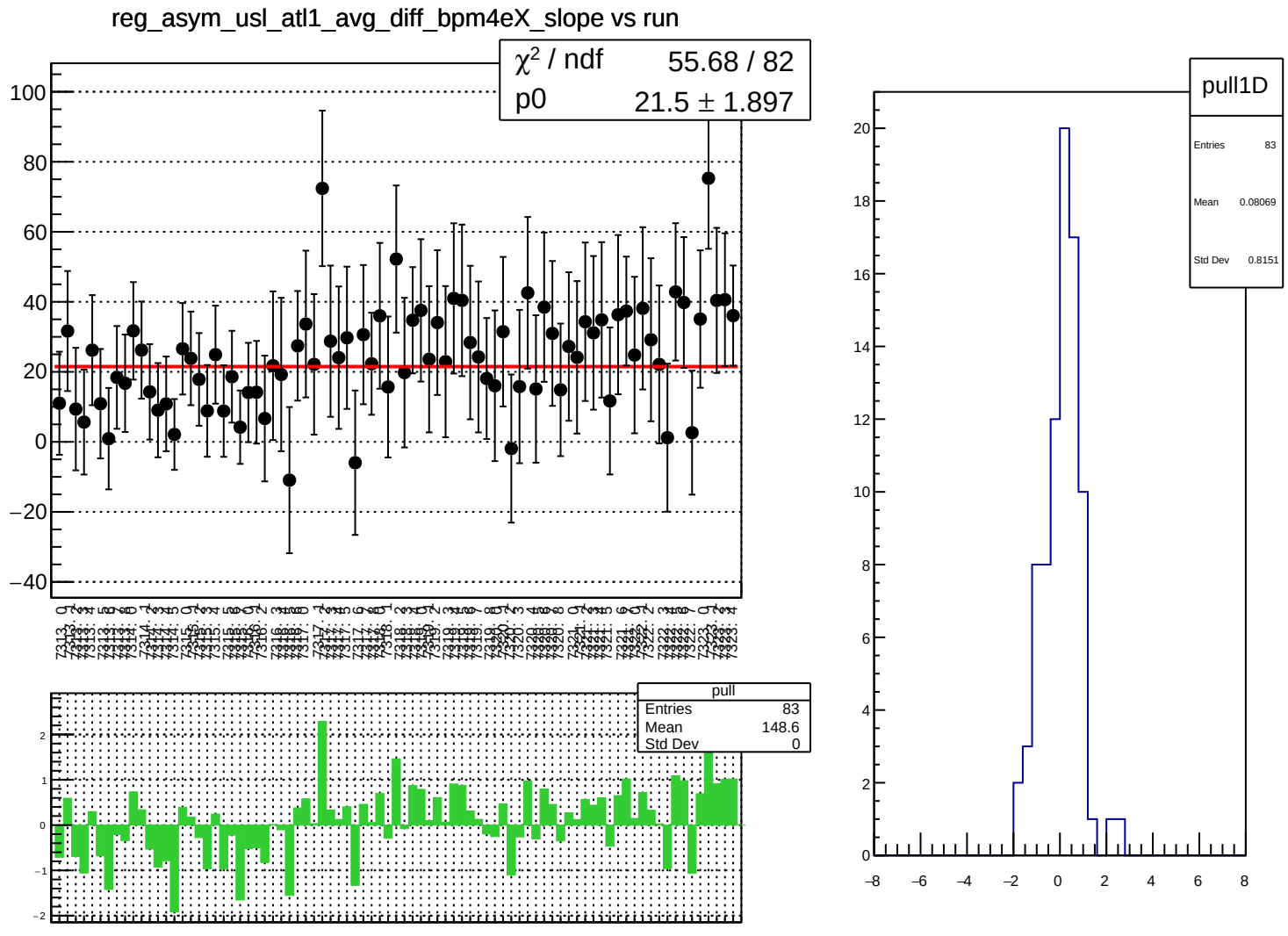

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 325.6 / 82
p0 −6.597 ± 0.04716
pull
Entries 83
Mean 2894
Std Dev 0
pull1D
Entries 83
Mean −0.009721
Std Dev 1.981

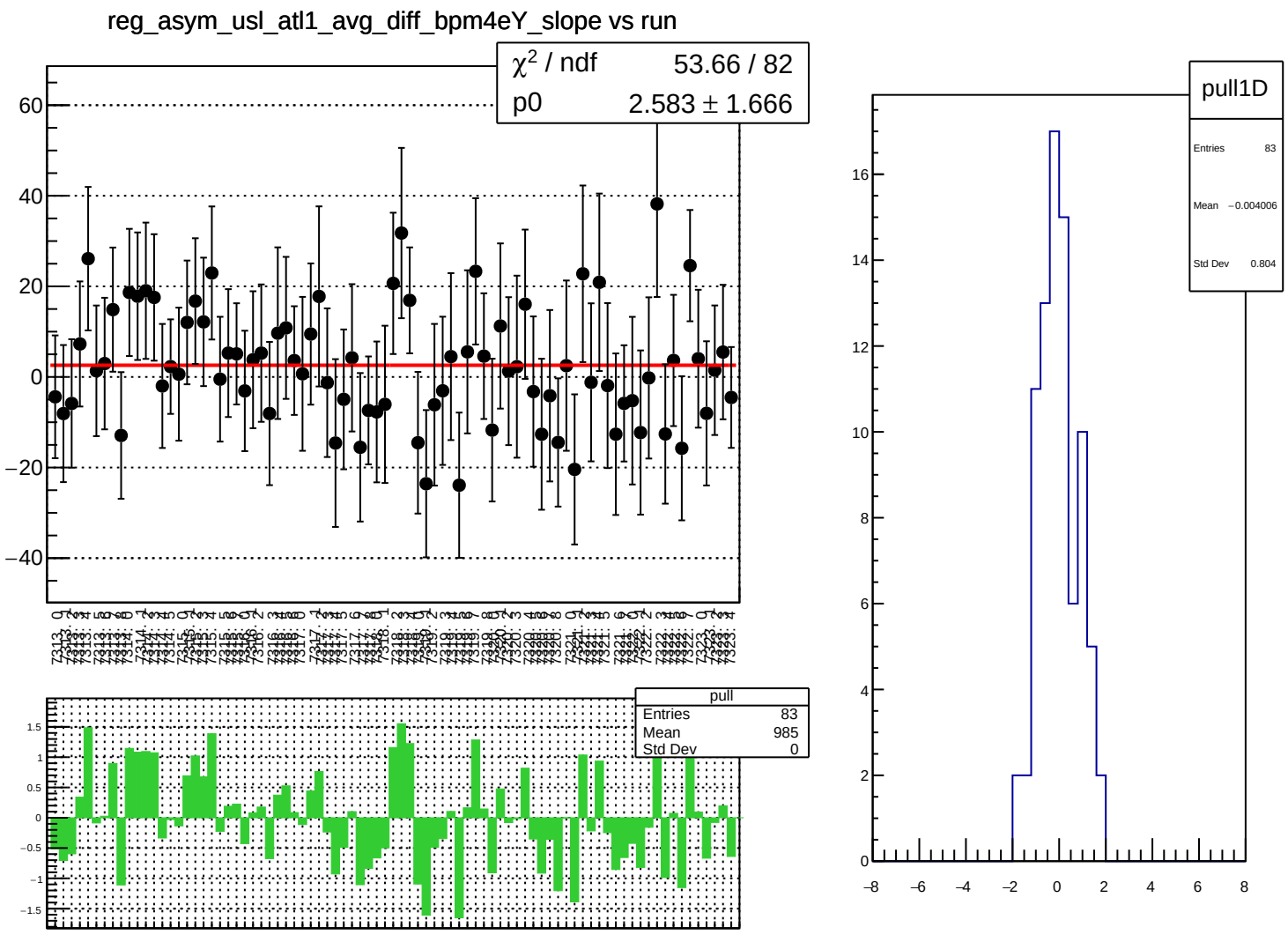

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 54.85 / 82
p0 −33.89 ± 1.909
pull
Entries 83
Mean 154.6
Std Dev 0

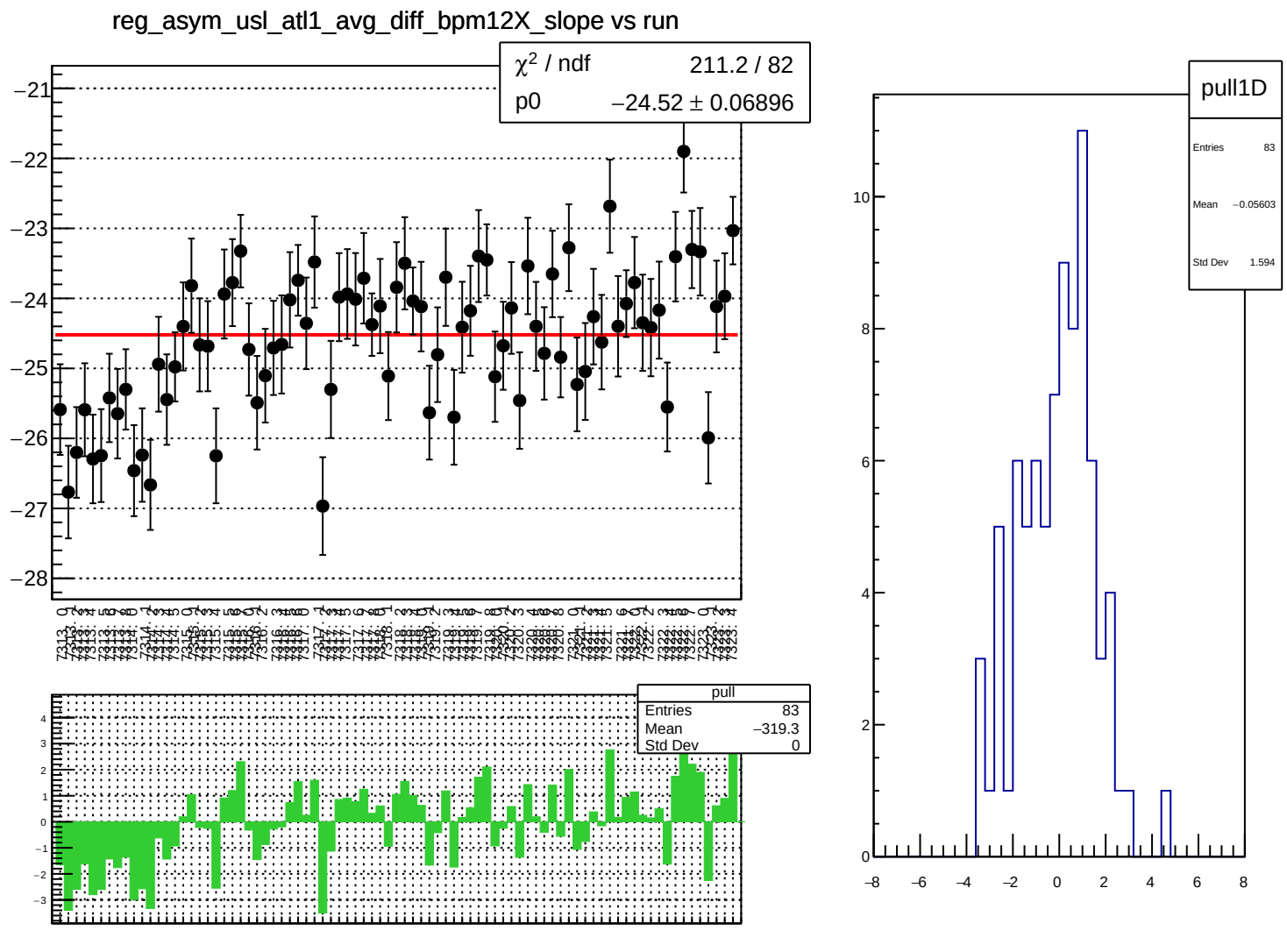

pull1D
Entries 83
Mean −0.07845
Std Dev 0.8091

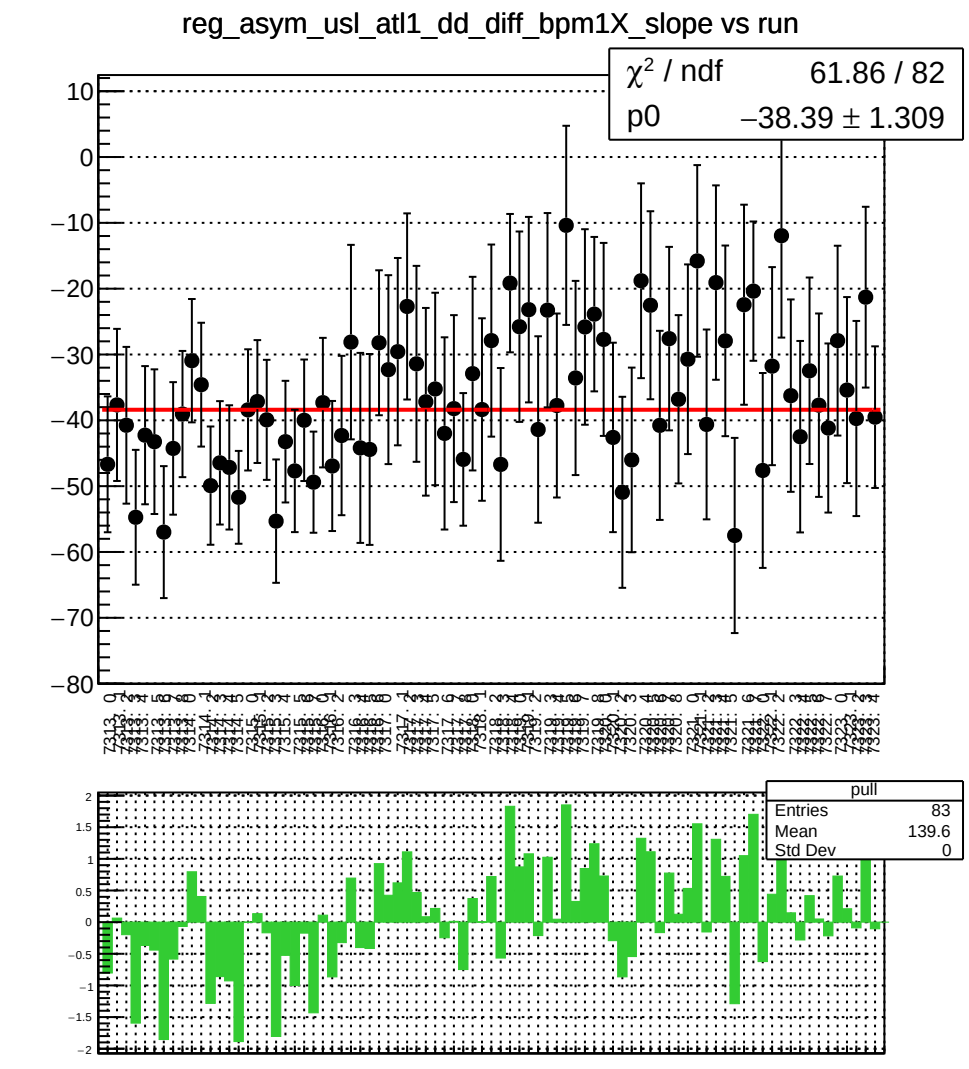

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.17 / 82
p0 4.334 ± 1.54
pull
Entries 83
Mean −758.1
Std Dev 0

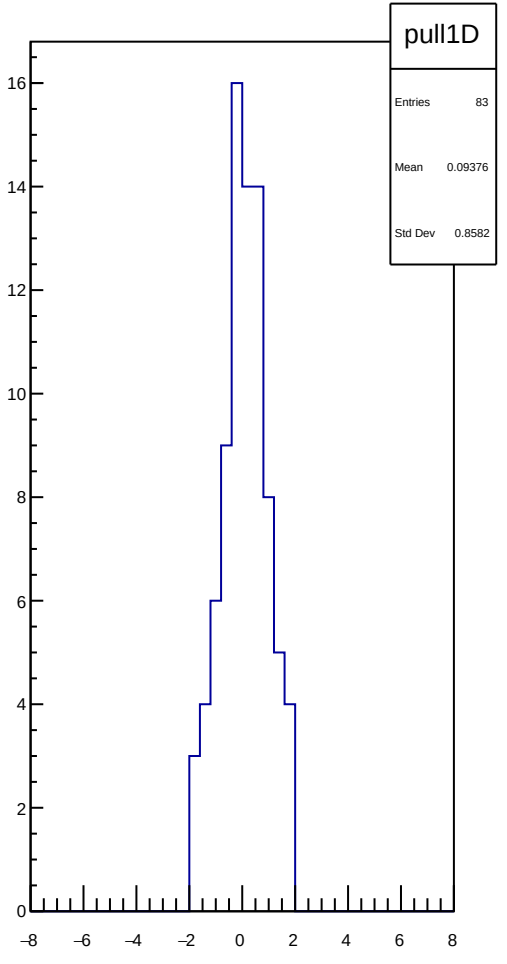

pull1D
Entries 83
Mean −0.003226
Std Dev 0.7851

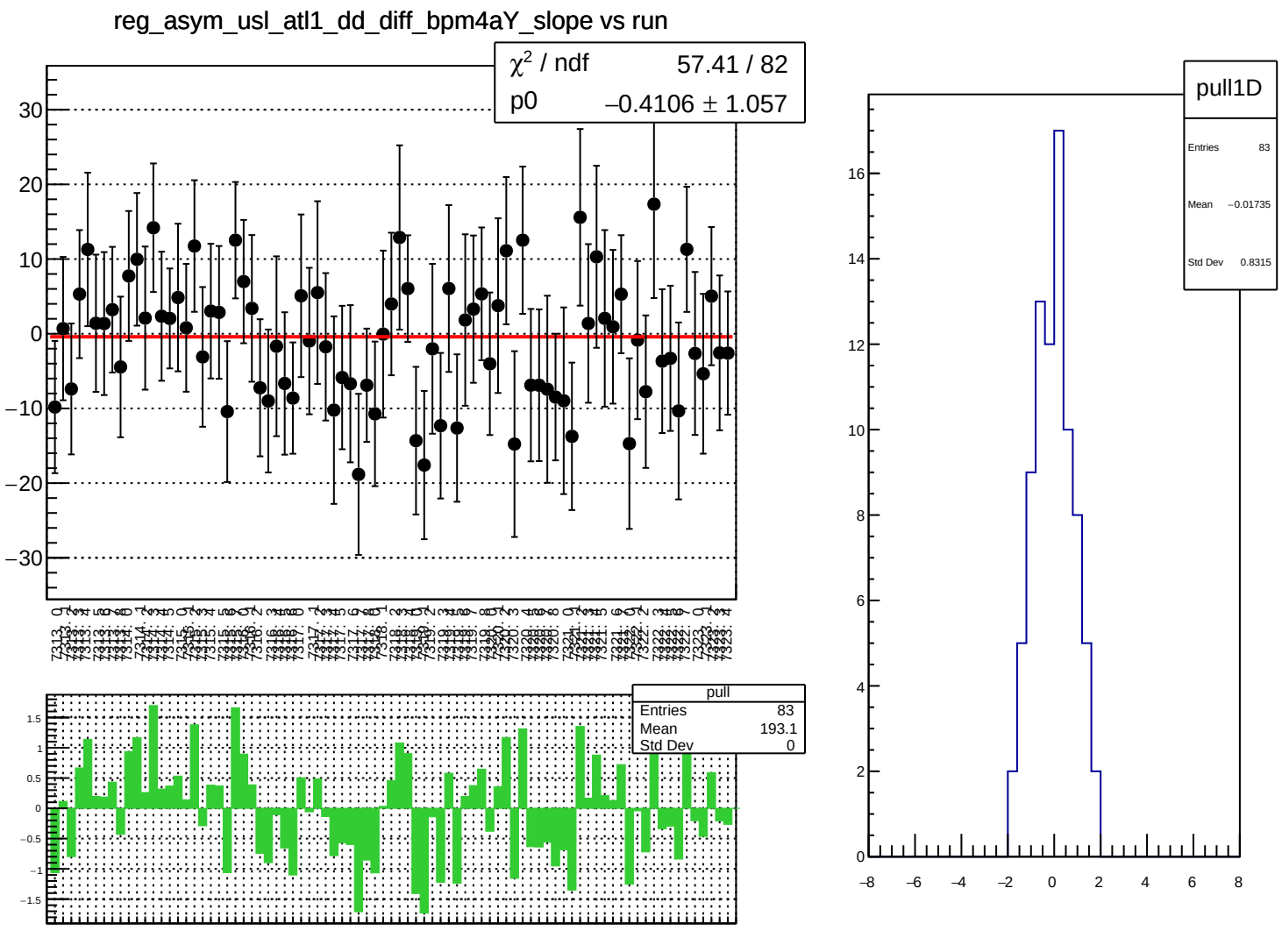

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.68 / 82
p0 21.5 ± 1.897
pull
Entries 83
Mean 148.6
Std Dev 0
pull1D
Entries 83
Mean 0.08069
Std Dev 0.8151

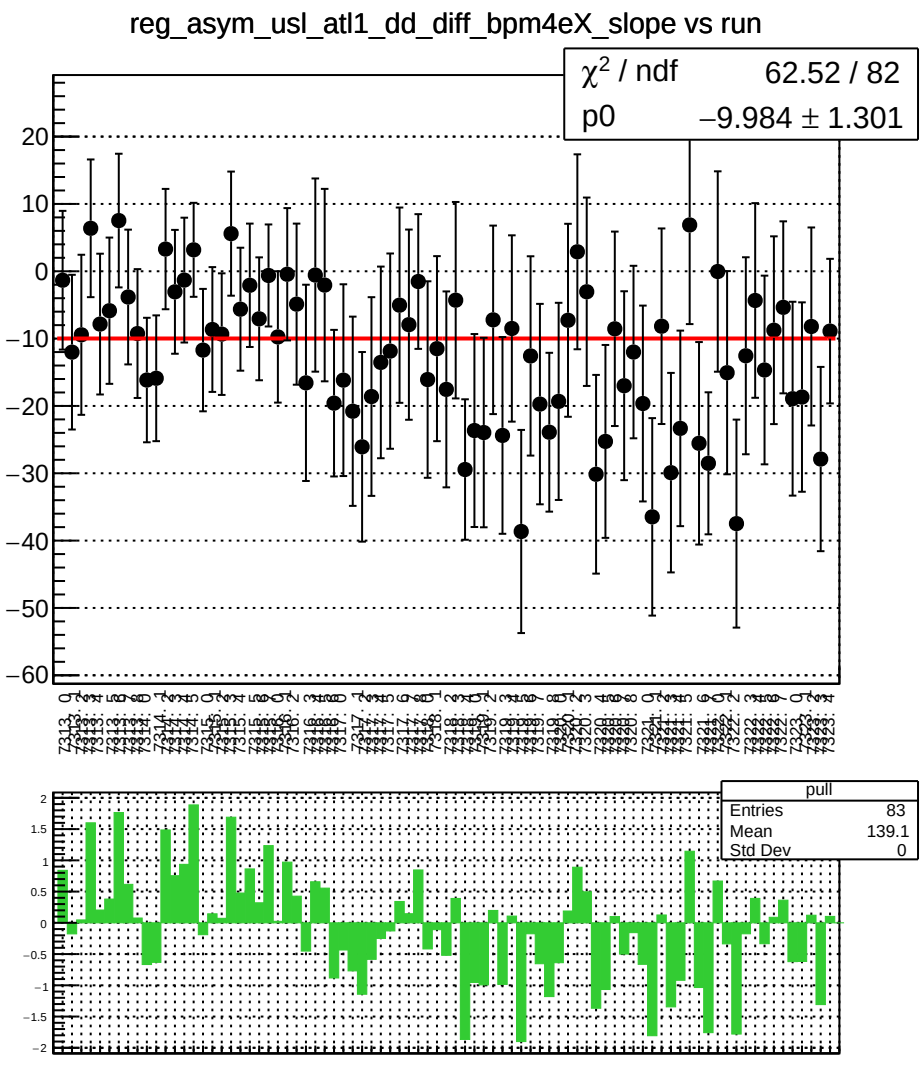

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.66 / 82
p0 2.583 ± 1.666
pull
Entries 83
Mean 985
Std Dev 0
pull1D
Entries 83
Mean −0.004006
Std Dev 0.804

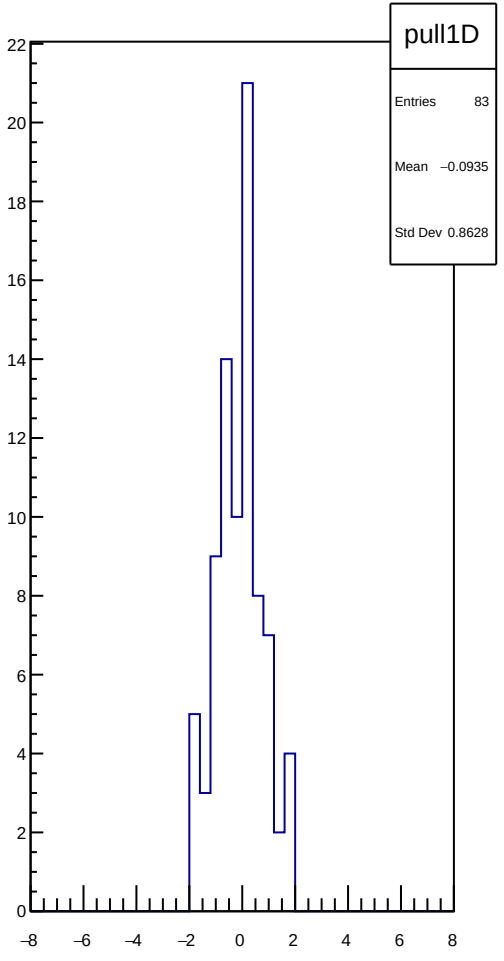

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 211.2 / 82
p0 −24.52 ± 0.06896
pull
Entries 83
Mean −319.3
Std Dev 0
pull1D
Entries 83
Mean −0.05603
Std Dev 1.594

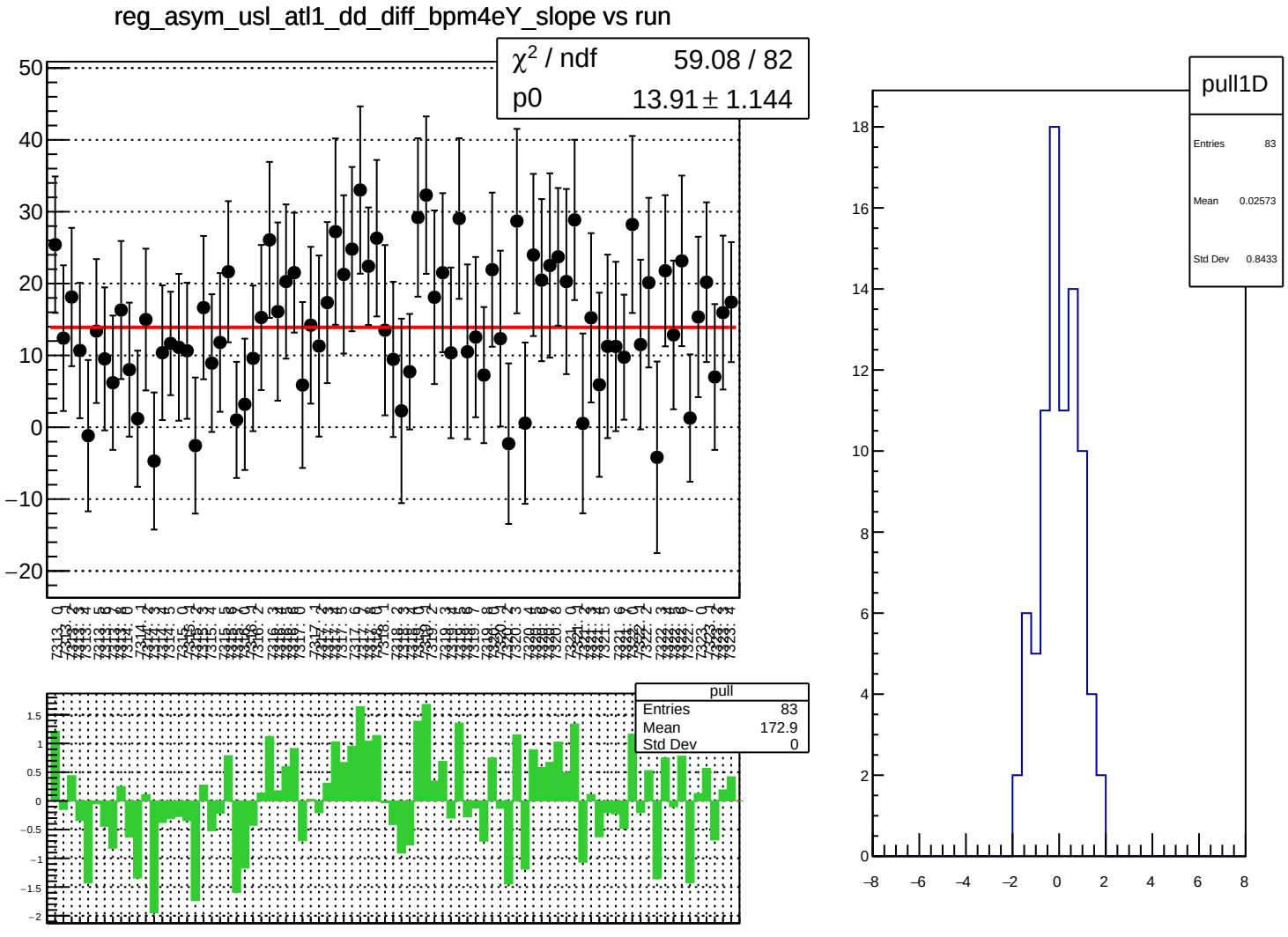

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 61.86 / 82
p0 −38.39 ± 1.309
pull
Entries 83
Mean 139.6
Std Dev 0

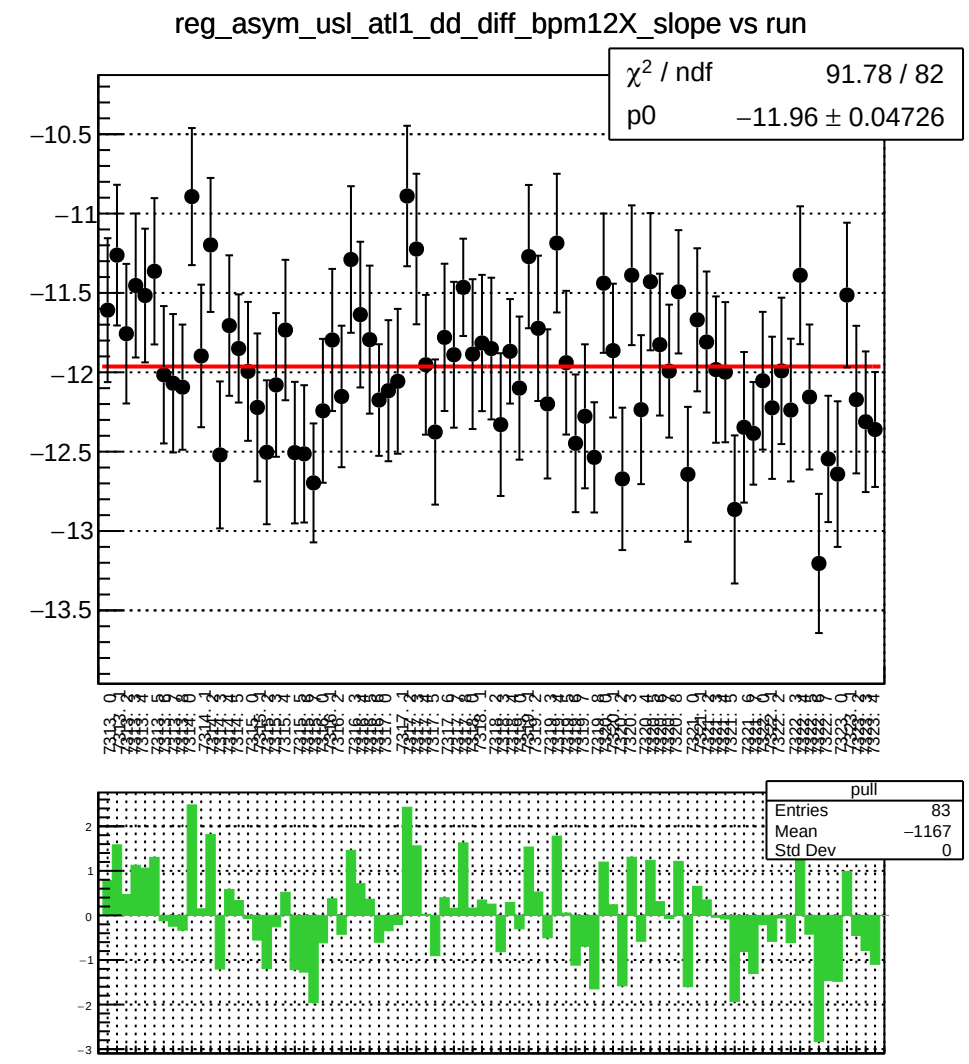

pull1D
Entries 83
Mean 0.09376
Std Dev 0.8582

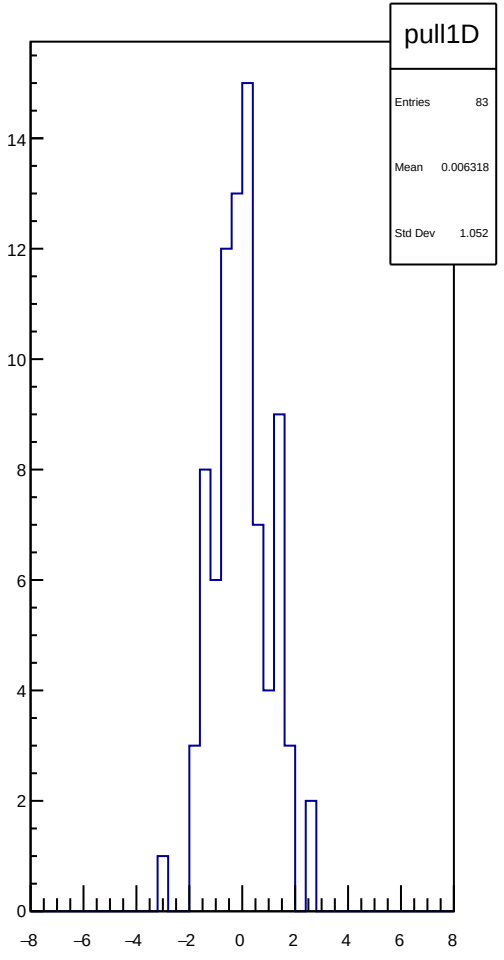

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.41 / 82
p0 −0.4106 ± 1.057
pull
Entries 83
Mean 193.1
Std Dev 0
pull1D
Entries 83
Mean −0.01735
Std Dev 0.8315

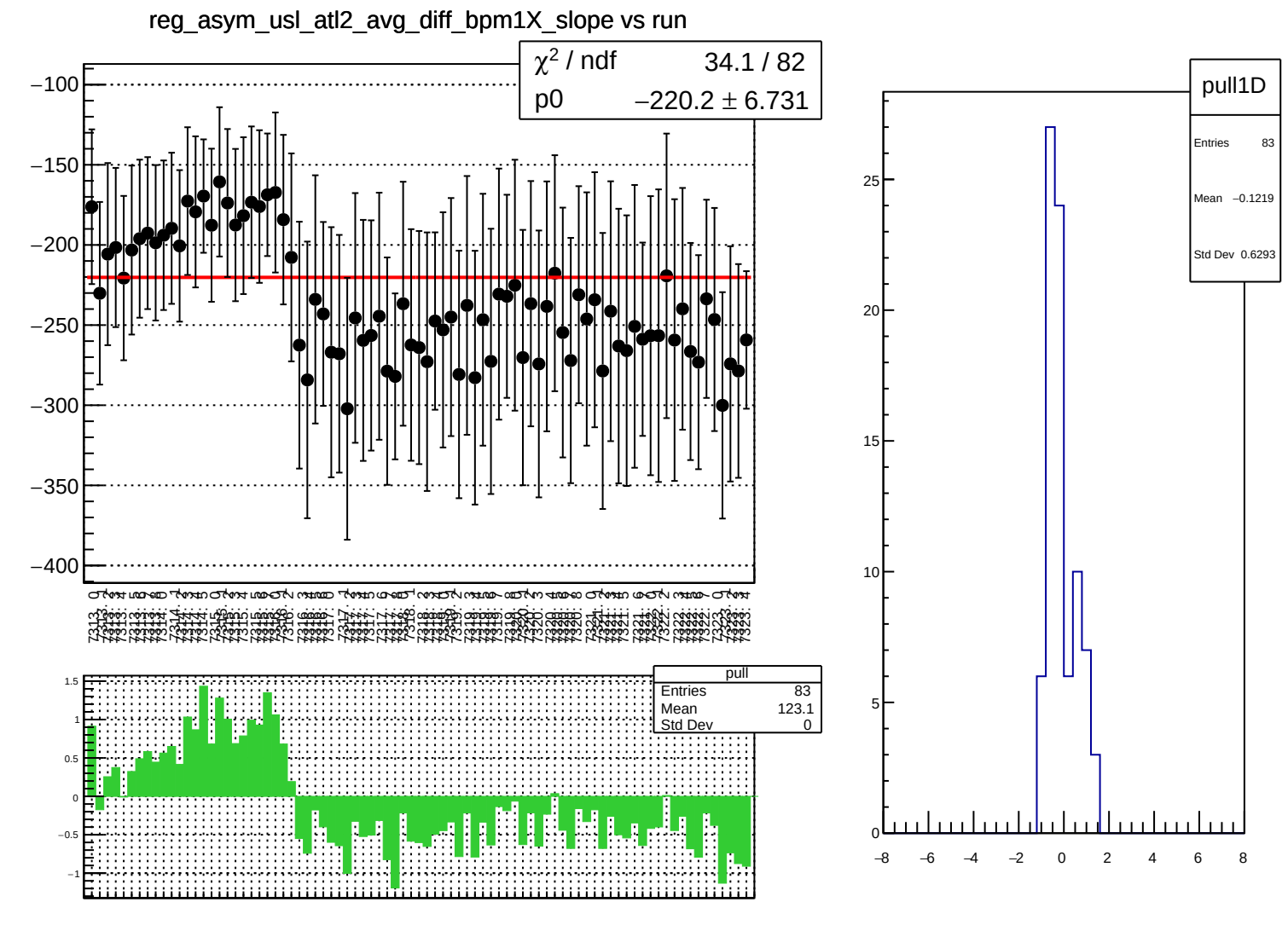

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.52 / 82
p0 −9.984 ± 1.301
pull
Entries 83
Mean 139.1
Std Dev 0

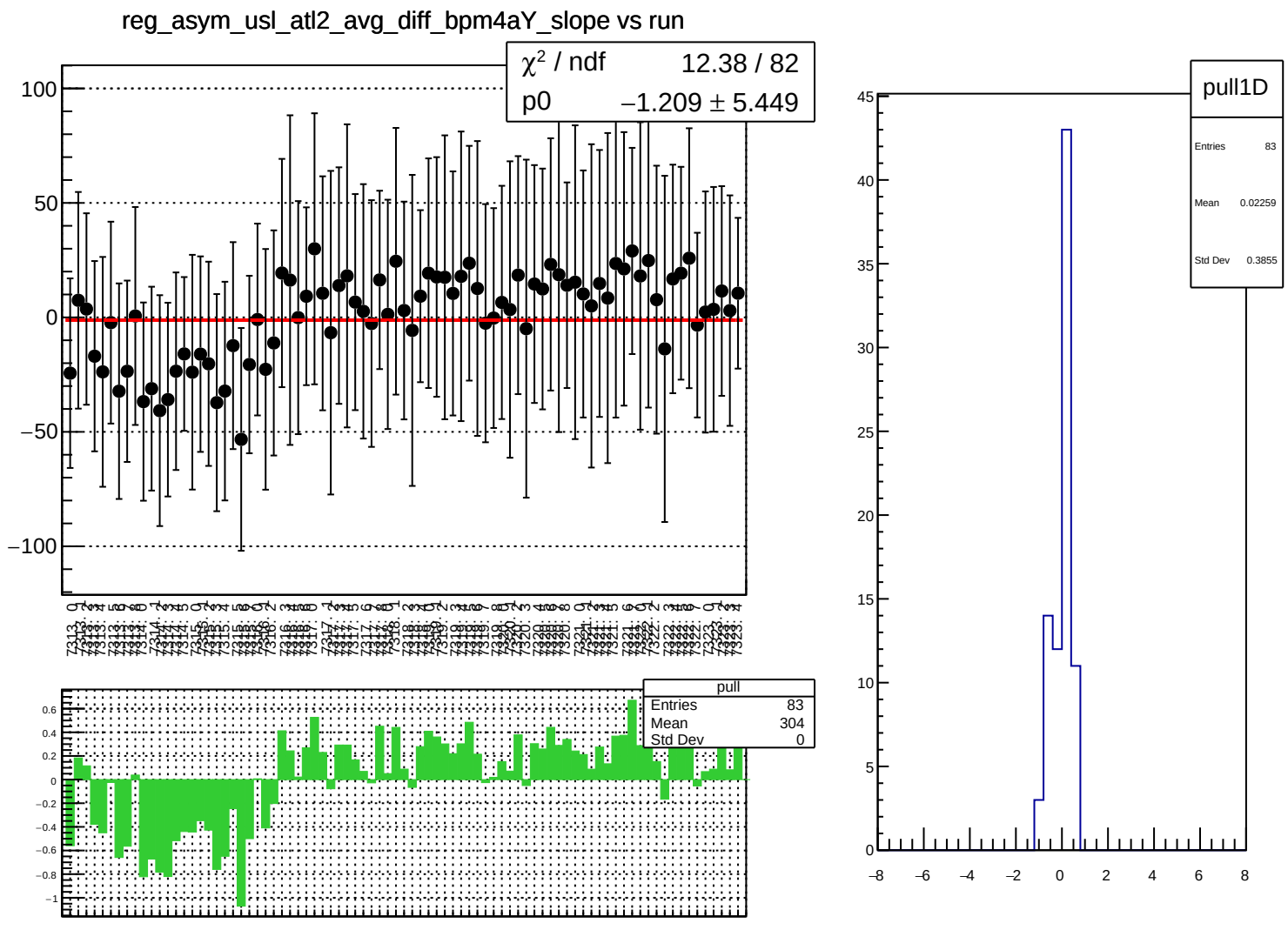

pull1D
Entries 83
Mean −0.0935
Std Dev 0.8628

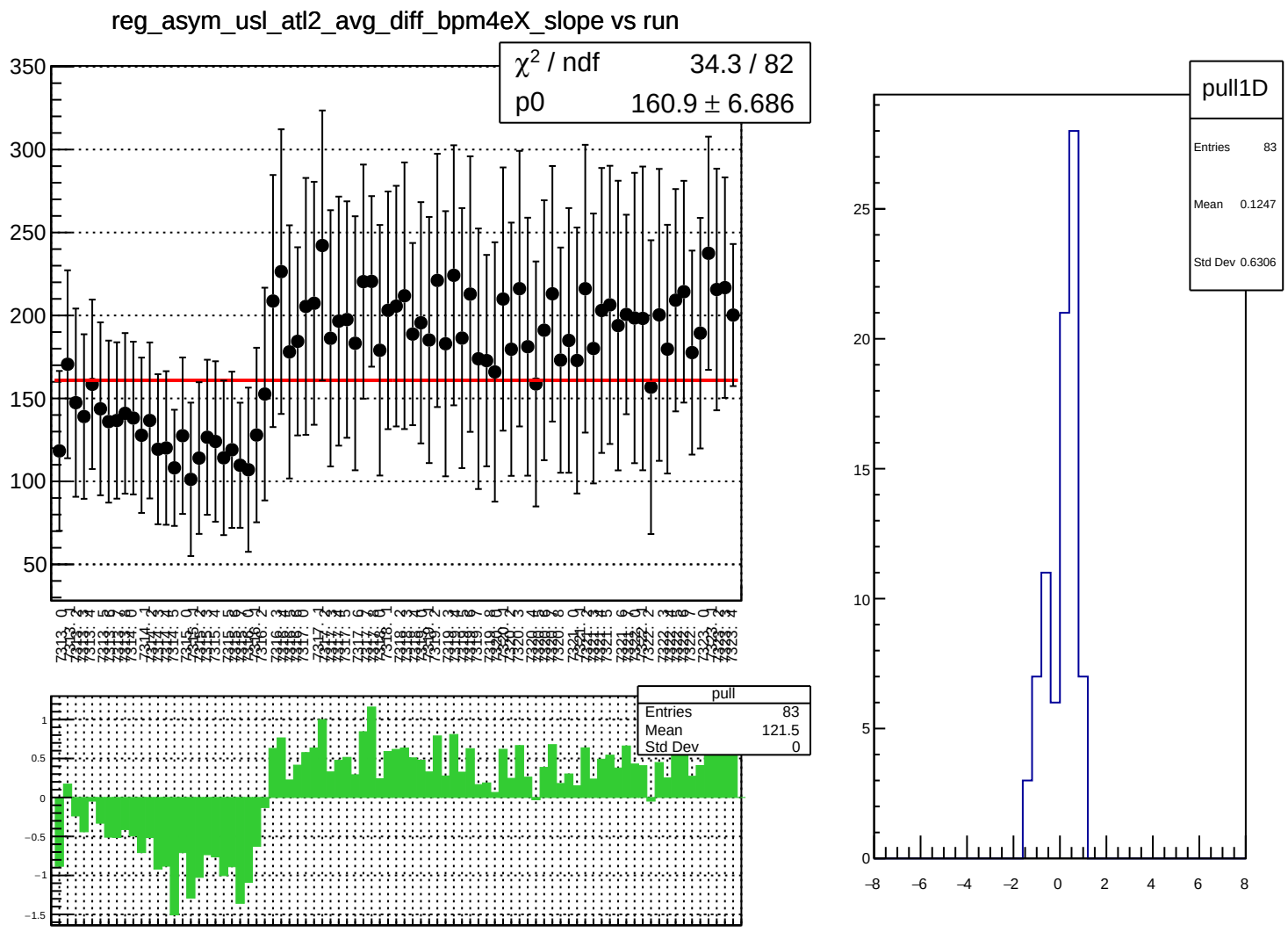

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.08 / 82
p0 13.91 ± 1.144
pull
Entries 83
Mean 172.9
Std Dev 0
pull1D
Entries 83
Mean 0.02573
Std Dev 0.8433

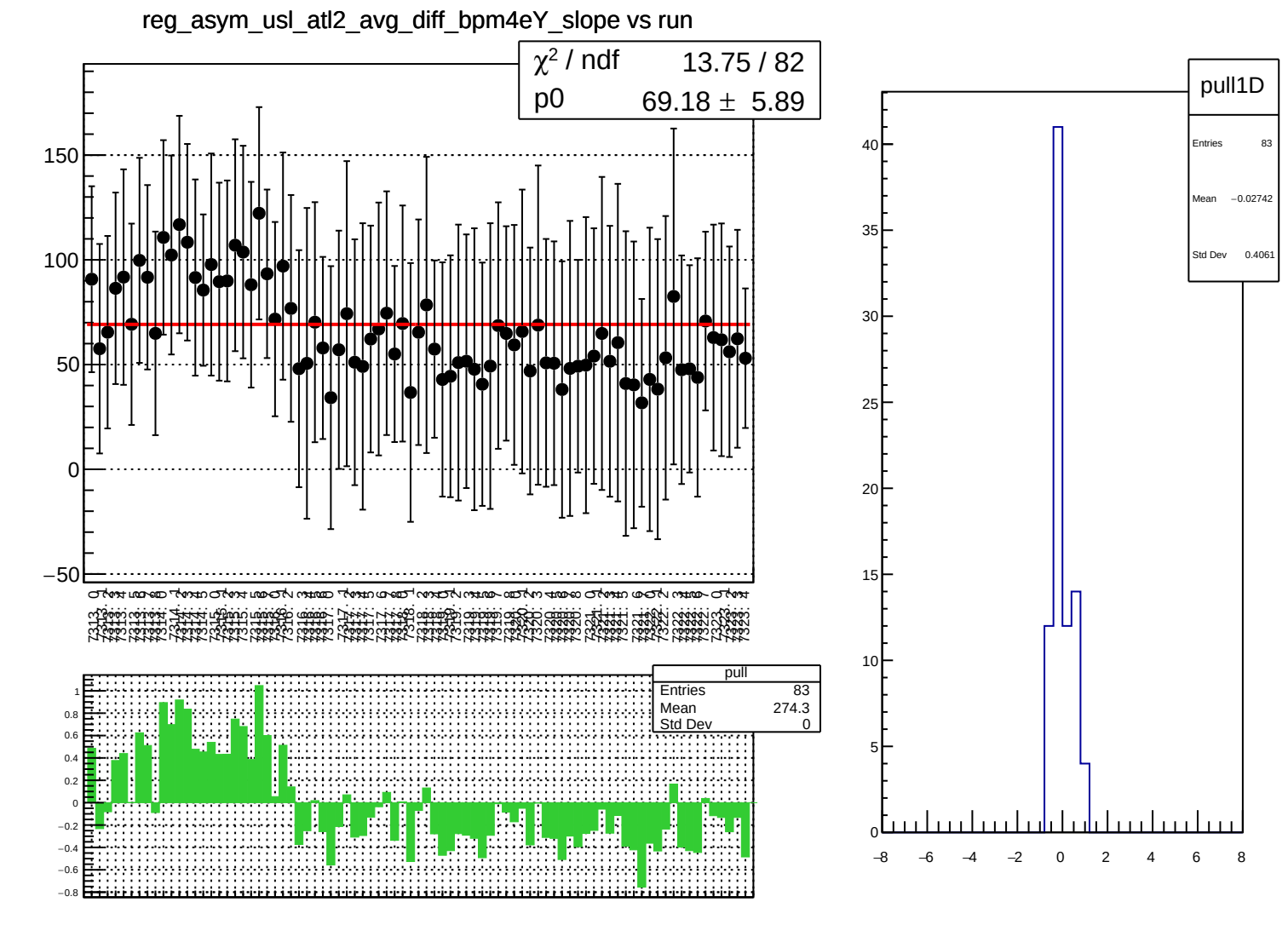

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 91.78 / 82
p0 −11.96 ± 0.04726
pull
Entries 83
Mean −1167
Std Dev 0

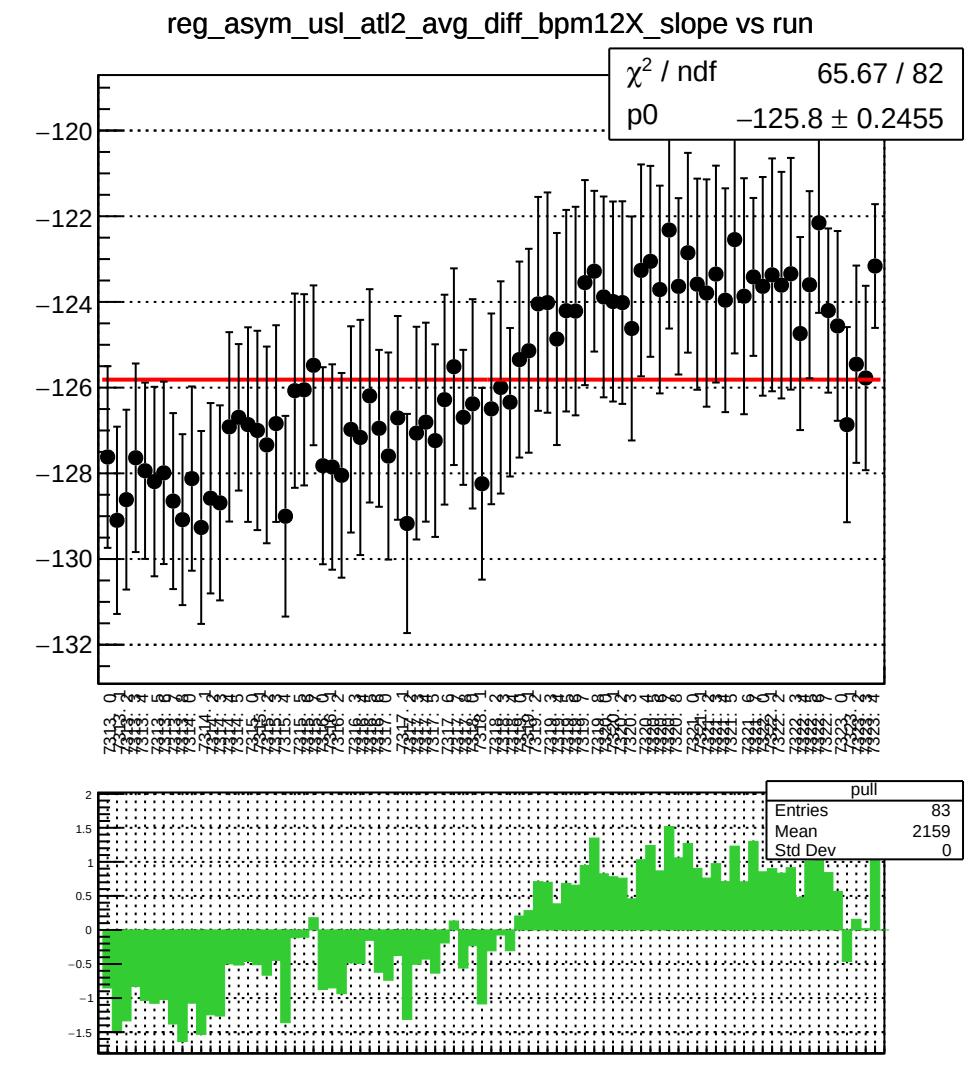

pull1D
Entries 83
Mean 0.006318
Std Dev 1.052

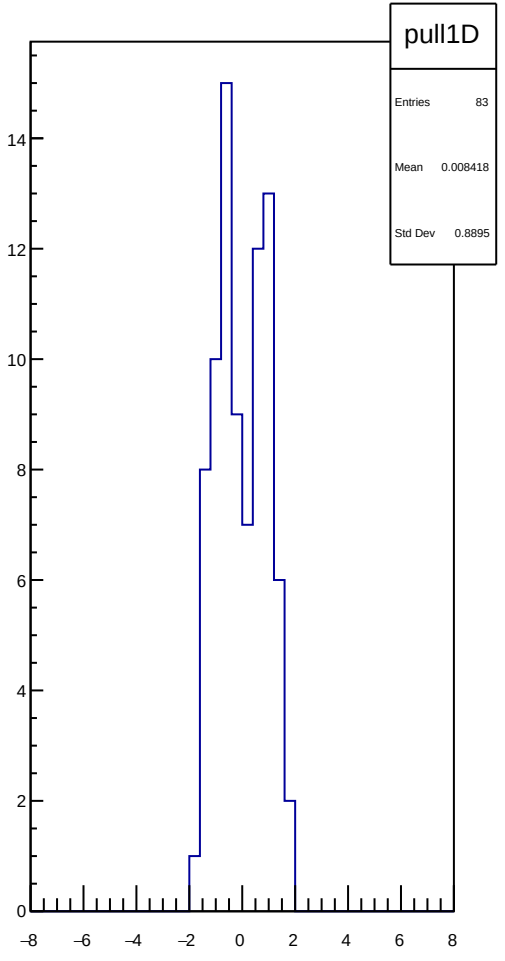

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 34.1 / 82
p0 −220.2 ± 6.731
pull
Entries 83
Mean 123.1
Std Dev 0
pull1D
Entries 83
Mean −0.1219
Std Dev 0.6293

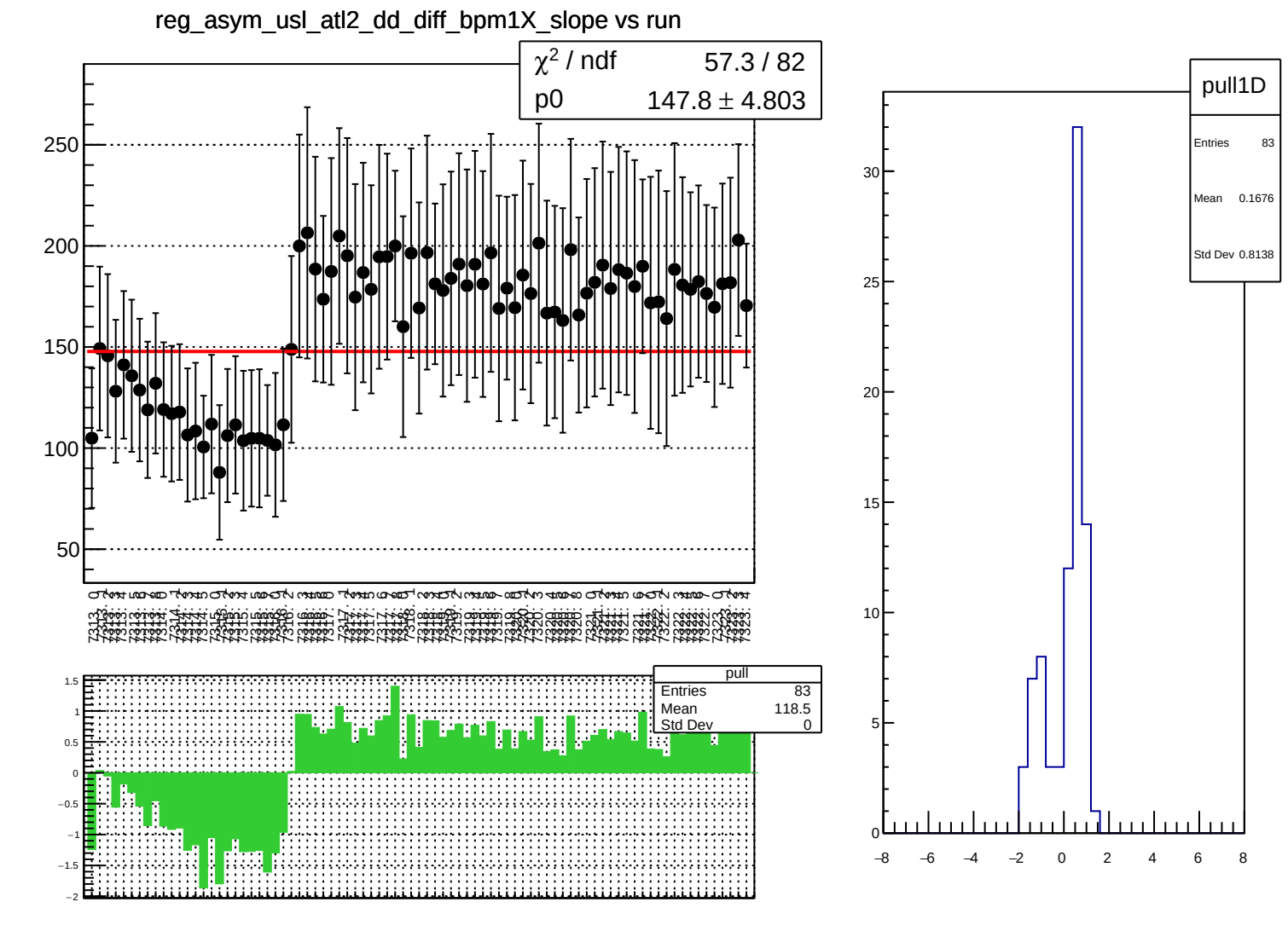

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.38 / 82
p0 −1.209 ± 5.449
pull
Entries 83
Mean 304
Std Dev 0
pull1D
Entries 83
Mean 0.02259
Std Dev 0.3855

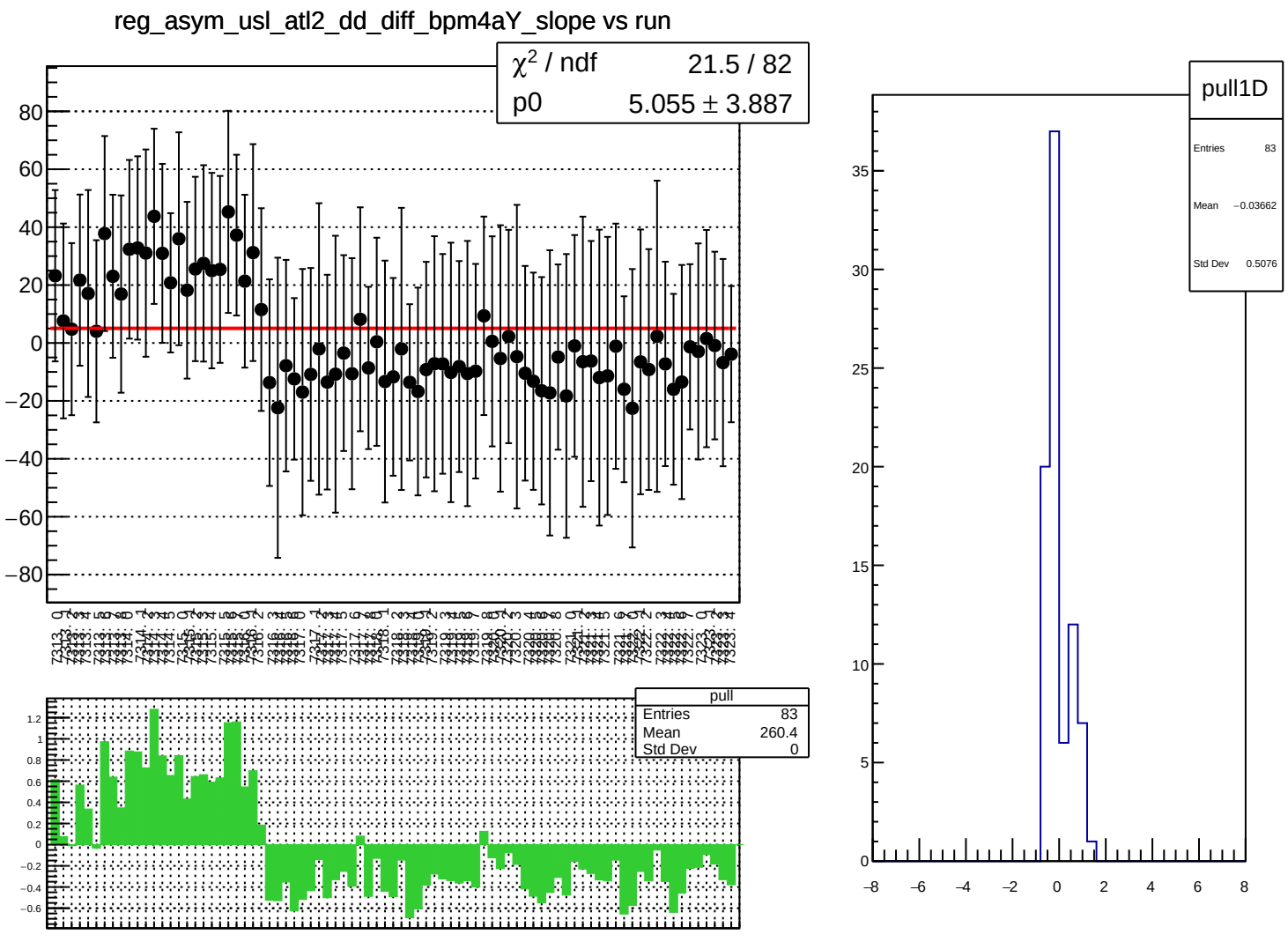

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.3 / 82
p0 160.9 ± 6.686
pull
Entries 83
Mean 121.5
Std Dev 0
pull1D
Entries 83
Mean 0.1247
Std Dev 0.6306

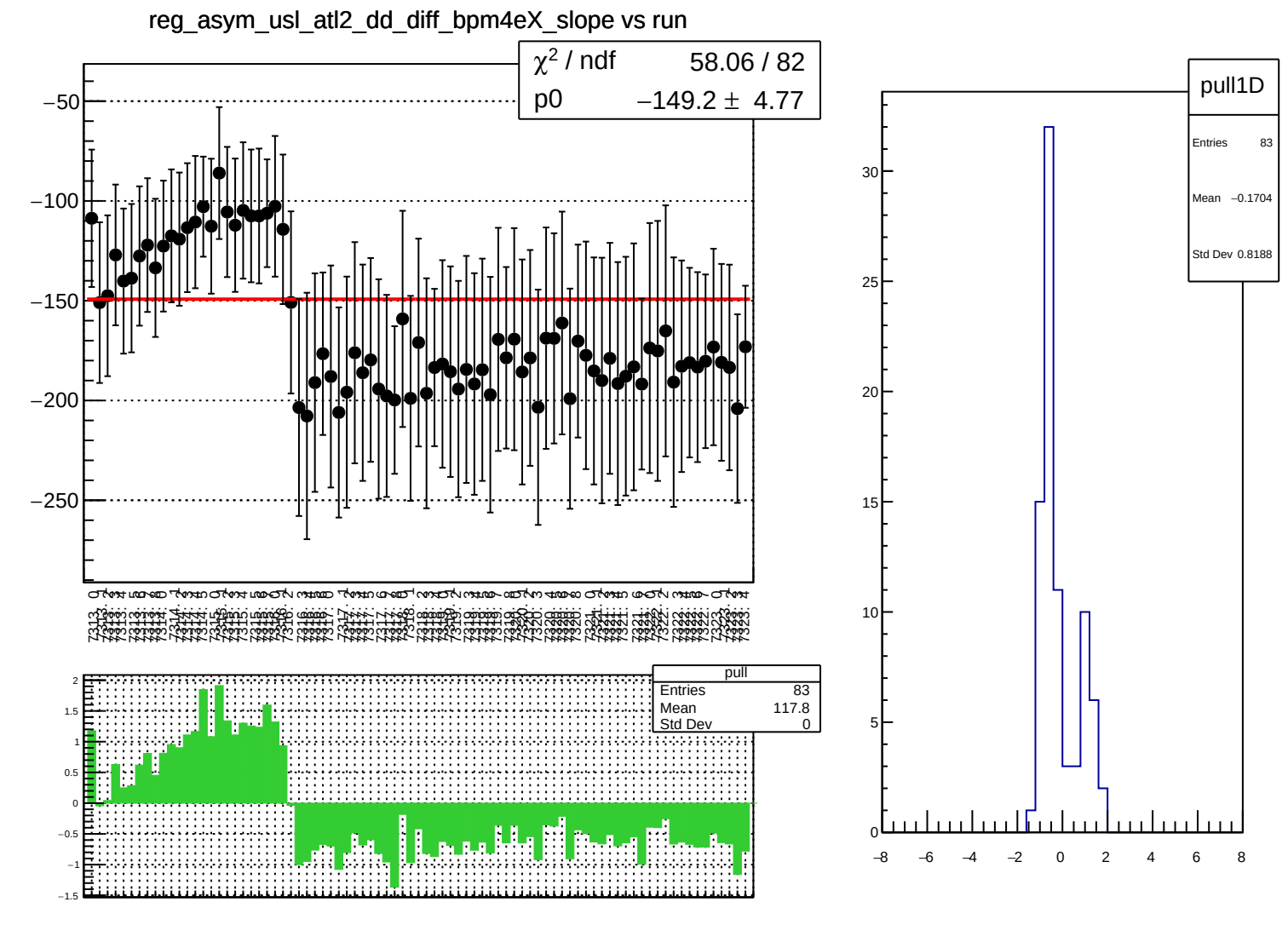

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.75 / 82
p0 69.18 ± 5.89
pull
Entries 83
Mean 274.3
Std Dev 0
pull1D
Entries 83
Mean −0.02742
Std Dev 0.4061

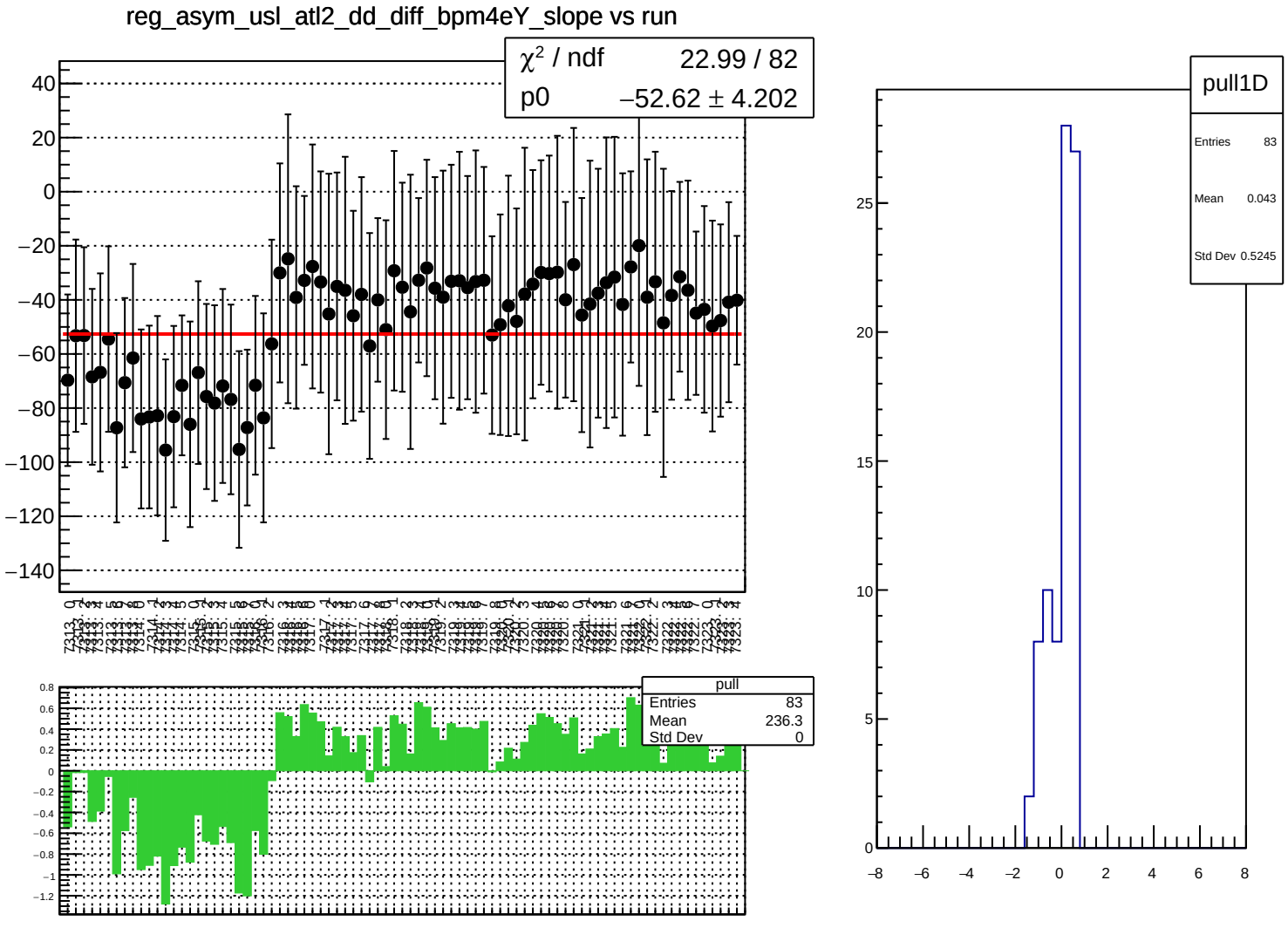

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 65.67 / 82
p0 −125.8 ± 0.2455
pull
Entries 83
Mean 2159
Std Dev 0

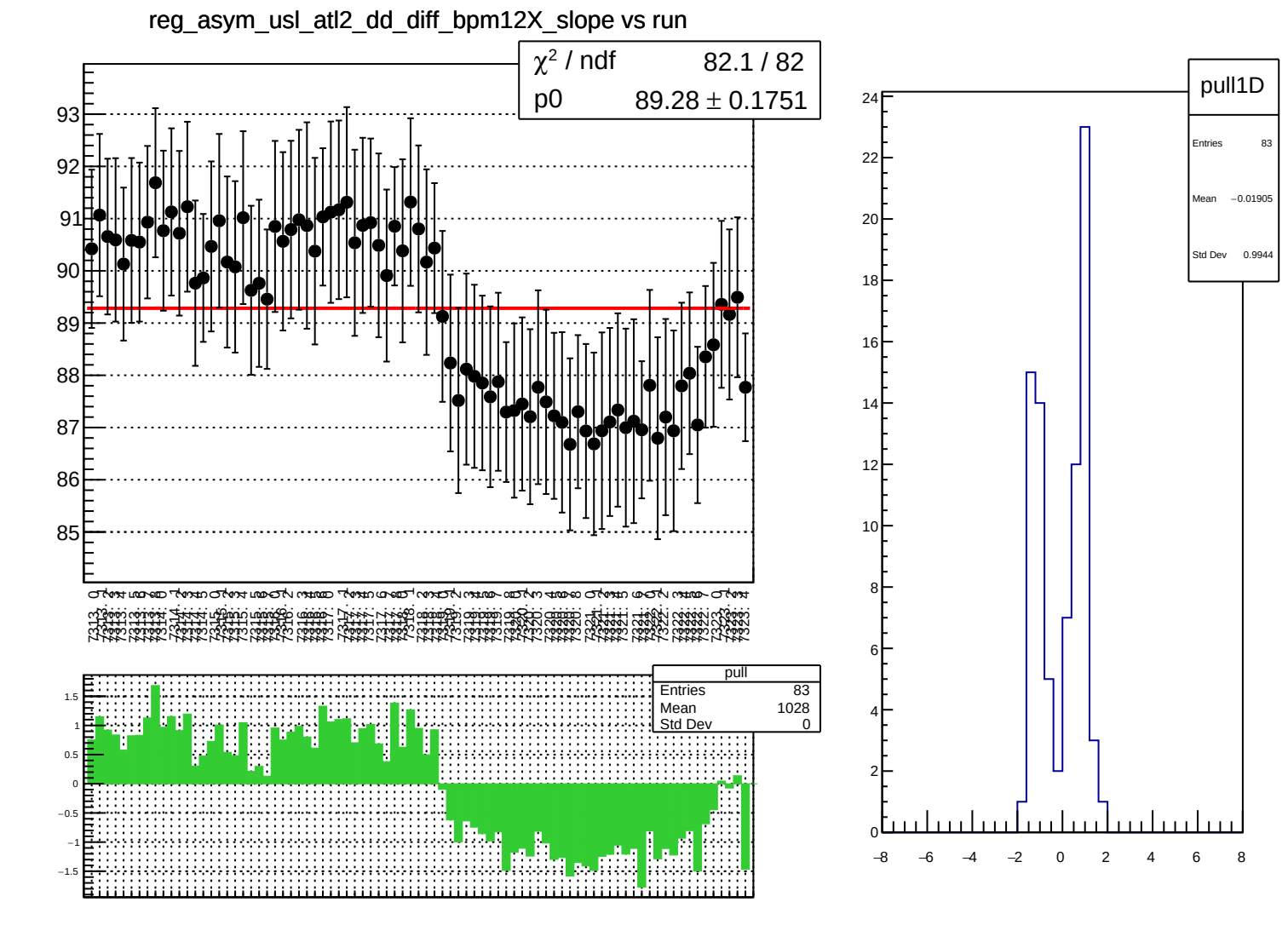

pull1D
Entries 83
Mean 0.008418
Std Dev 0.8895

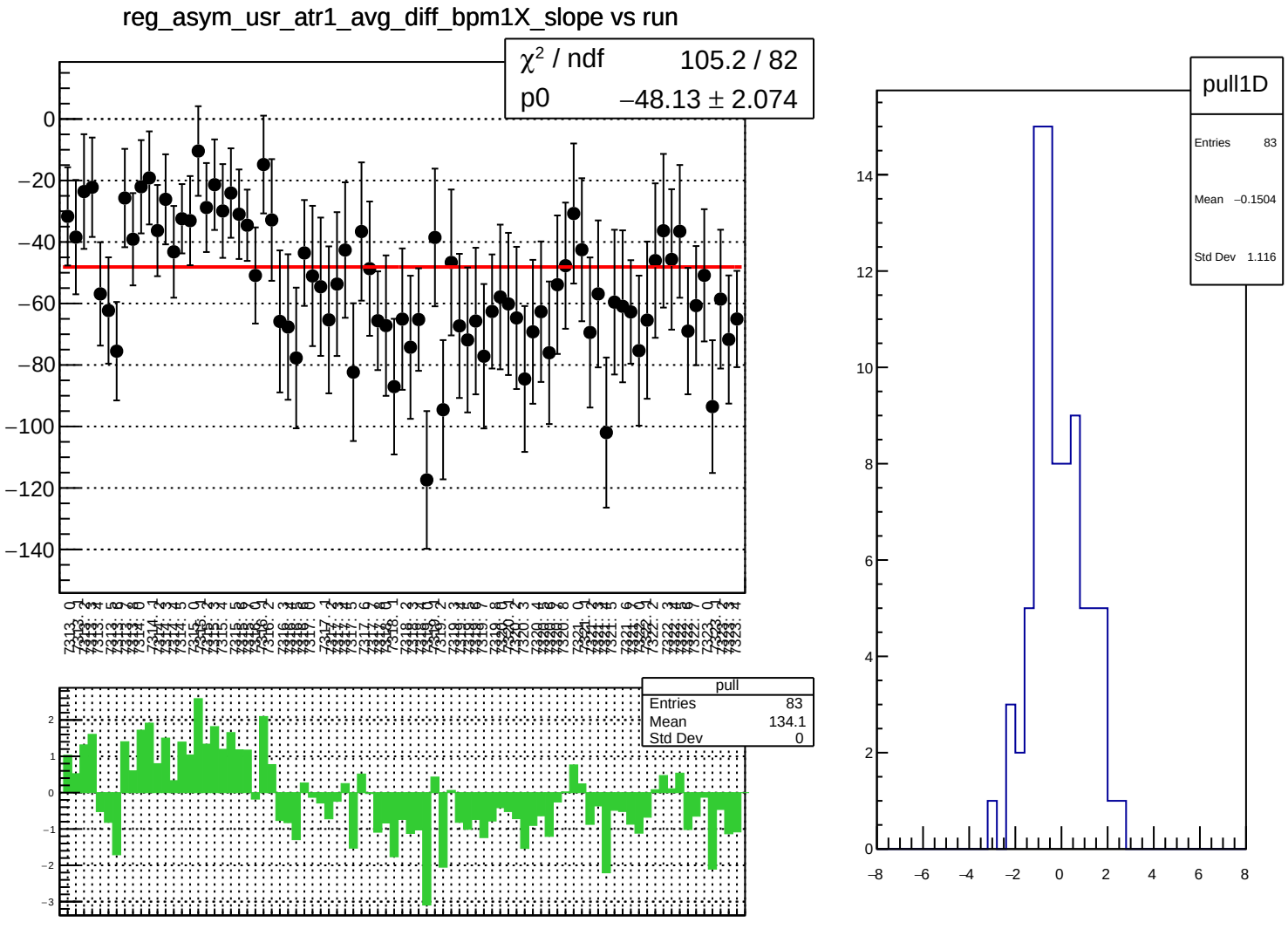

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 57.3 / 82
p0 147.8 ± 4.803
250
200
150
100
50
pull
Entries 83
Mean 118.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 83
Mean 0.1676
Std Dev 0.8138
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

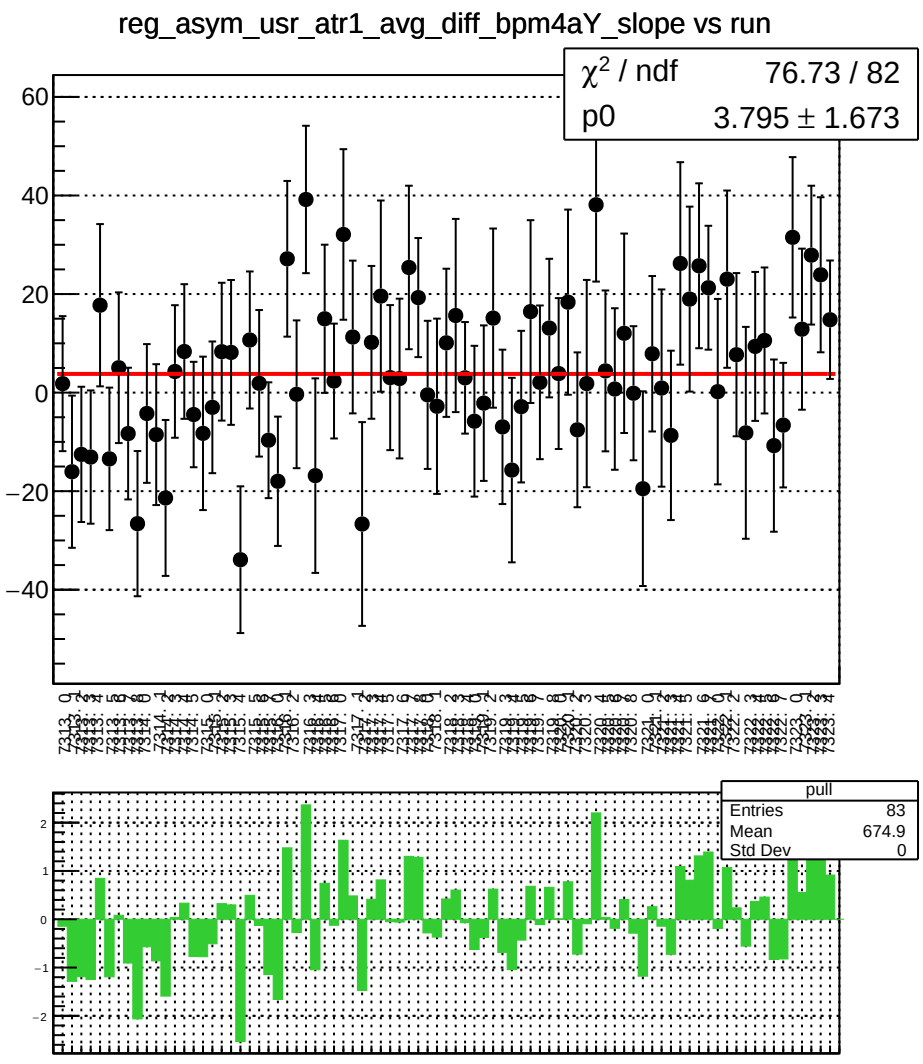

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.5 / 82
p0 5.055 ± 3.887
pull
Entries 83
Mean 260.4
Std Dev 0
pull1D
Entries 83
Mean −0.03662
Std Dev 0.5076

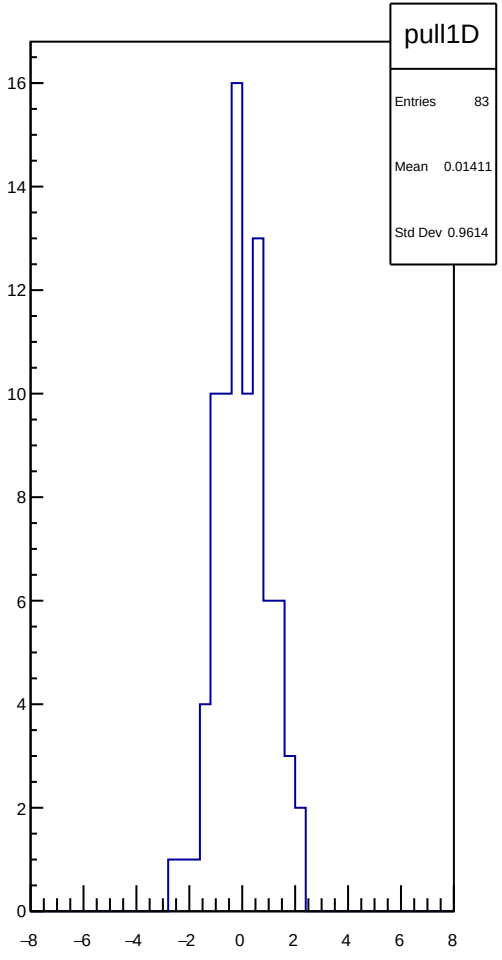

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.06 / 82
p0 −149.2 ± 4.77
−50
−100
−150
−200
−250
pull
Entries 83
Mean 117.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.1704
Std Dev 0.8188
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

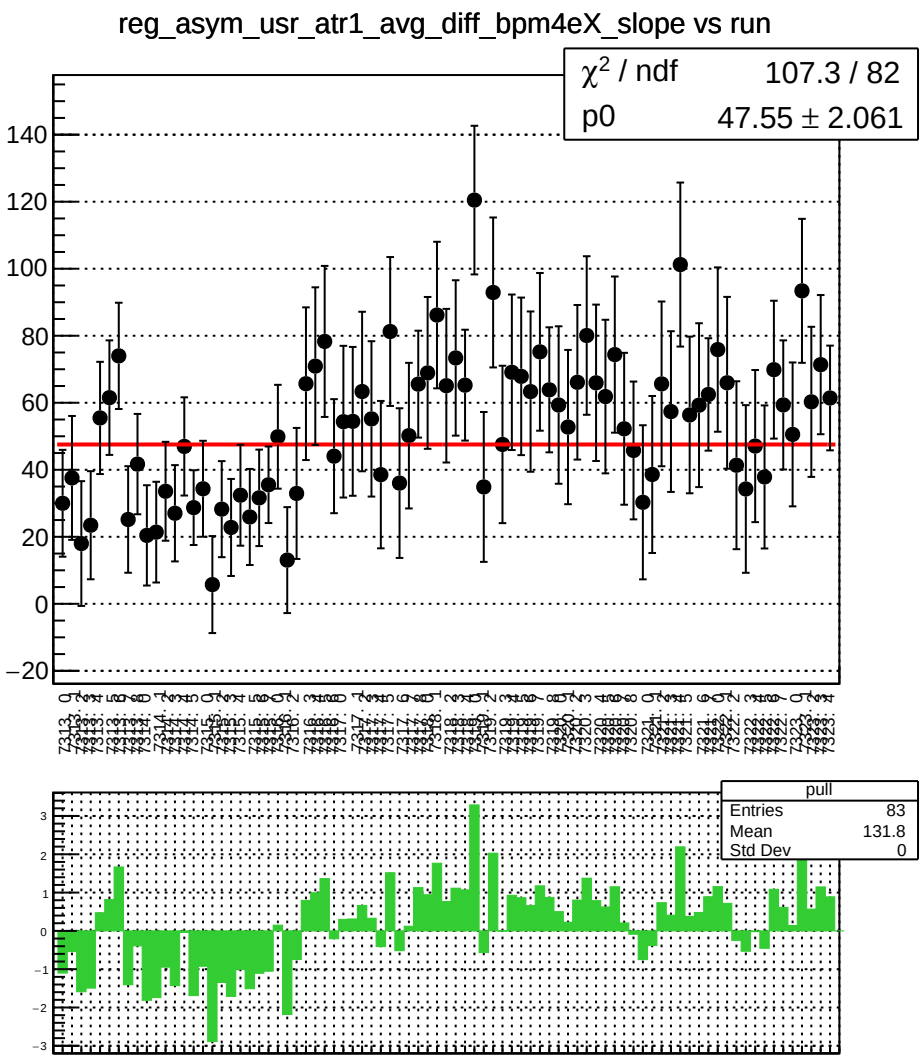

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.99 / 82
p0 −52.62 ± 4.202
pull
Entries 83
Mean 236.3
Std Dev 0
pull1D
Entries 83
Mean 0.043
Std Dev 0.5245

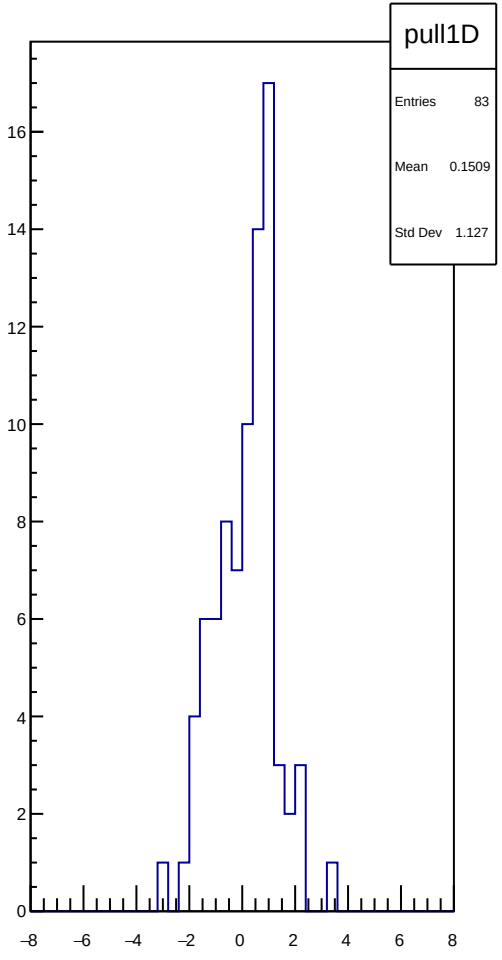

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 82.1 / 82
p0 89.28 ± 0.1751
pull
Entries 83
Mean 1028
Std Dev 0
pull1D
Entries 83
Mean −0.01905
Std Dev 0.9944

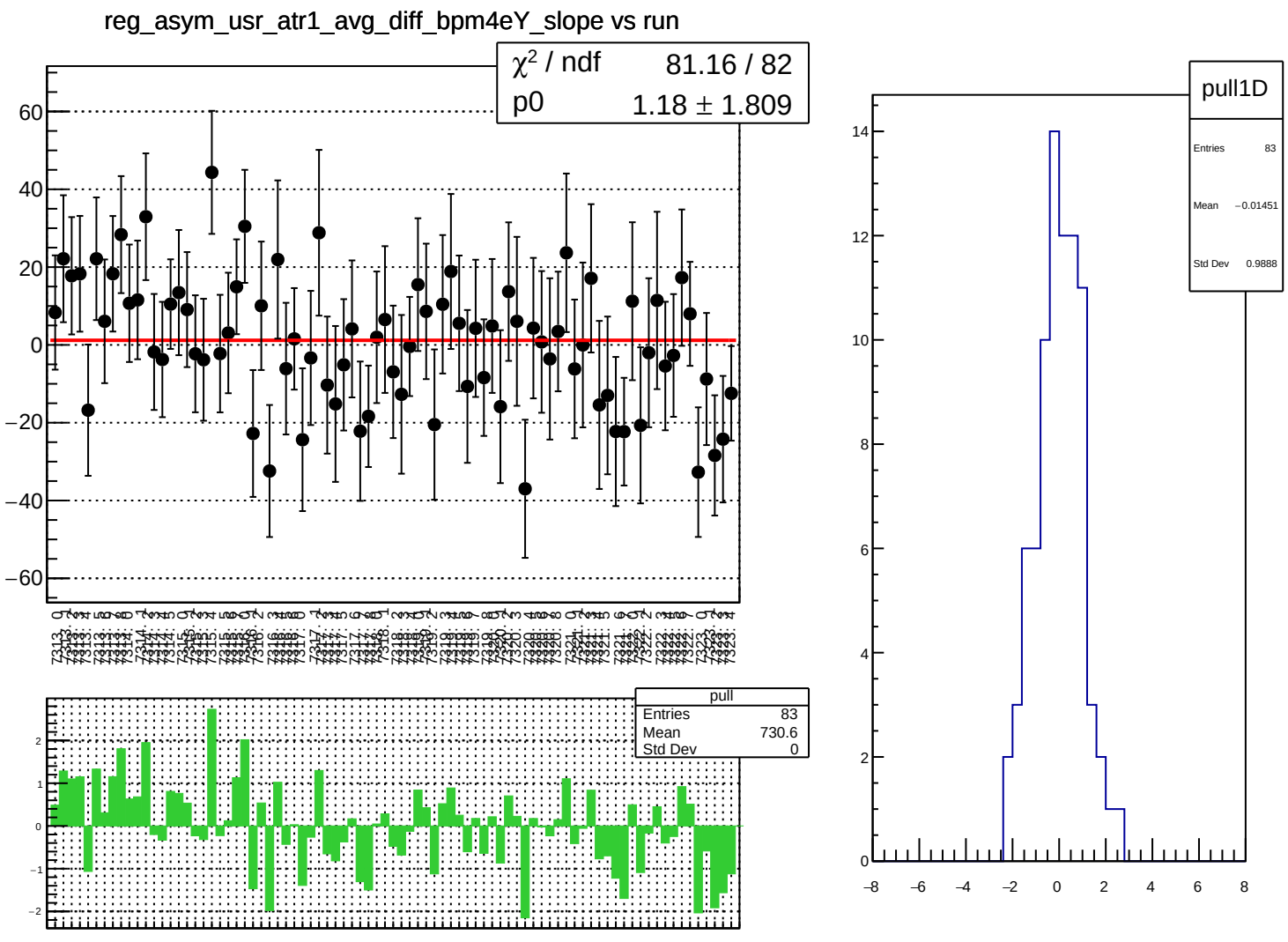

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 105.2 / 82
p0 −48.13 ± 2.074
pull
Entries 83
Mean 134.1
Std Dev 0
pull1D
Entries 83
Mean −0.1504
Std Dev 1.116

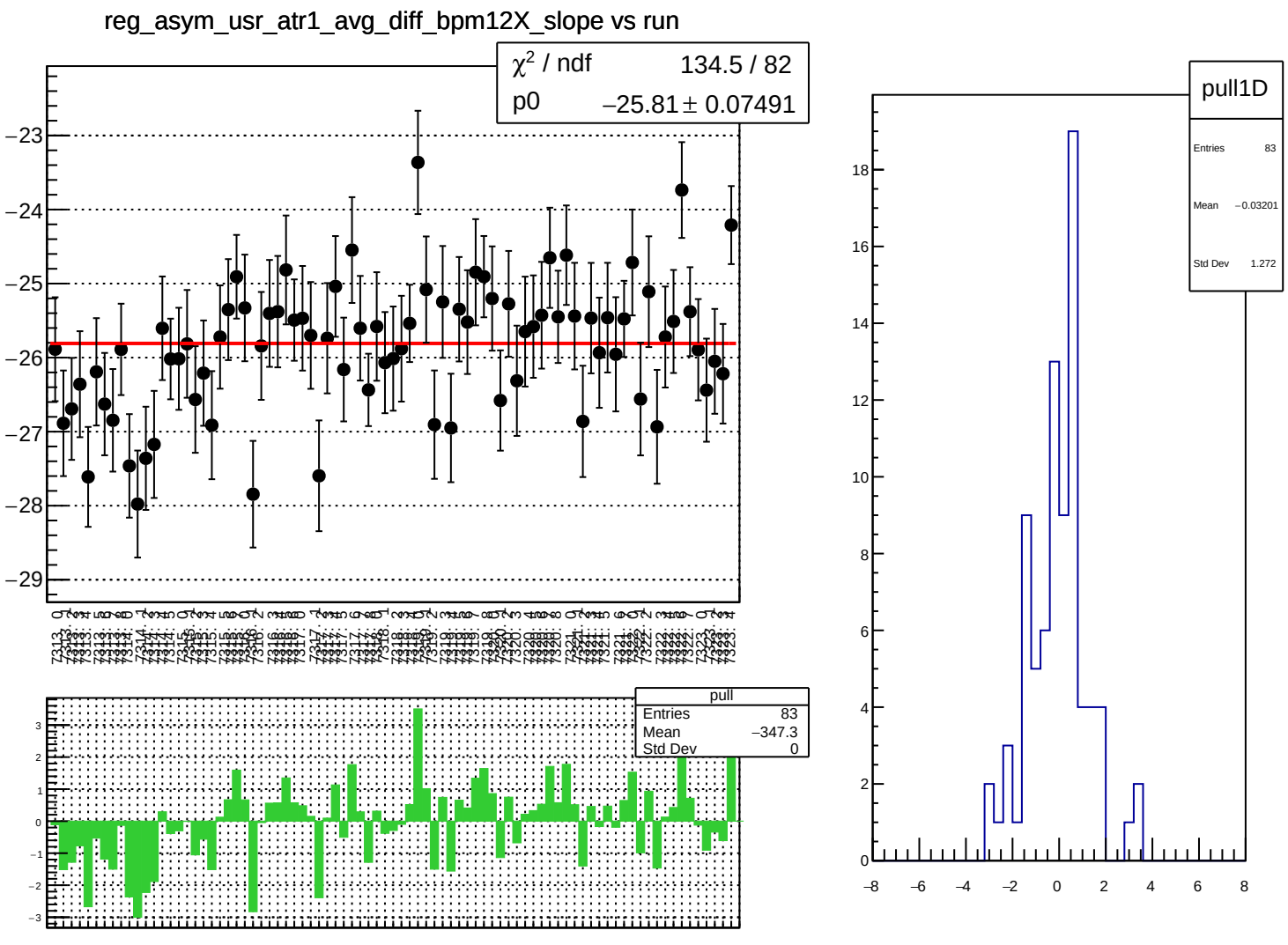

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.73 / 82
p0 3.795 ± 1.673
pull
Entries 83
Mean 674.9
Std Dev 0

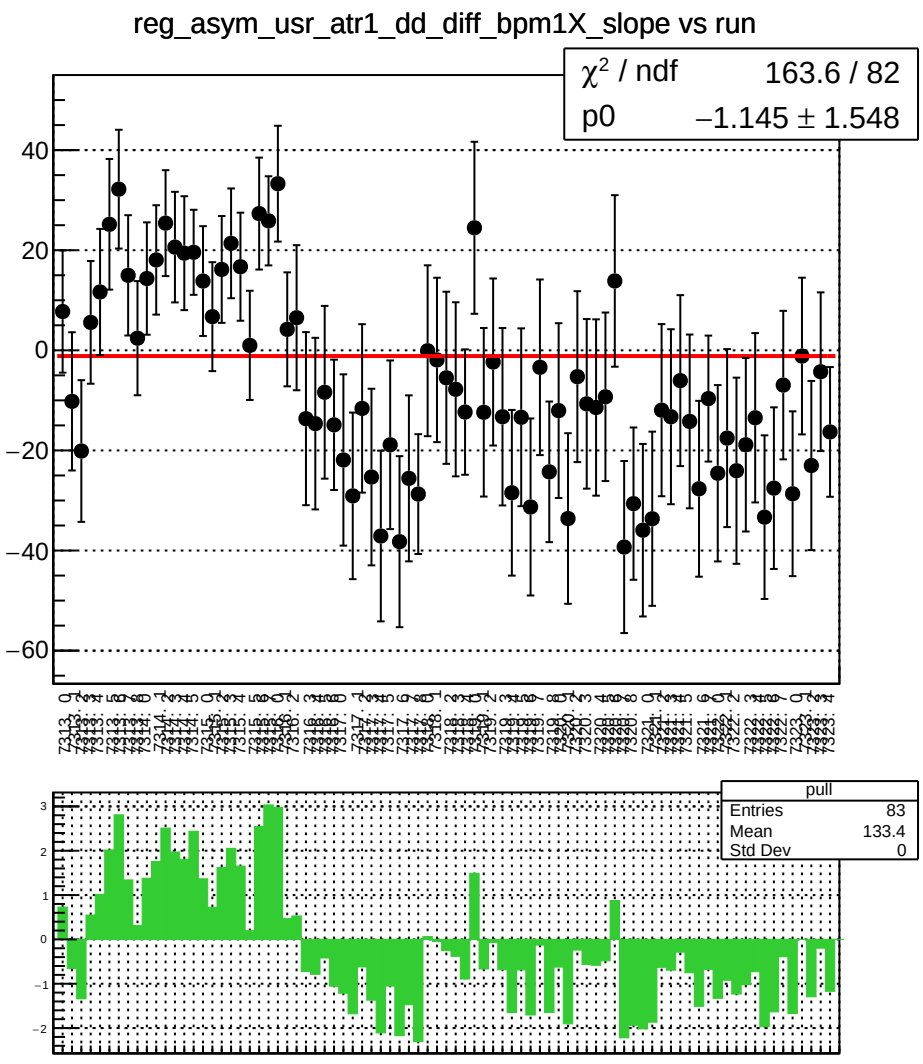

pull1D
Entries 83
Mean 0.01411
Std Dev 0.9614

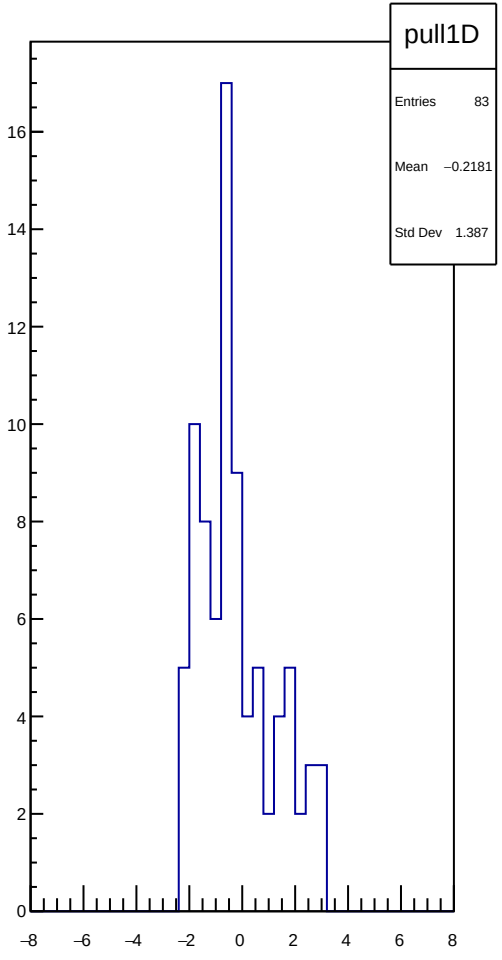

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.3 / 82
p0 47.55 ± 2.061
pull
Entries 83
Mean 131.8
Std Dev 0

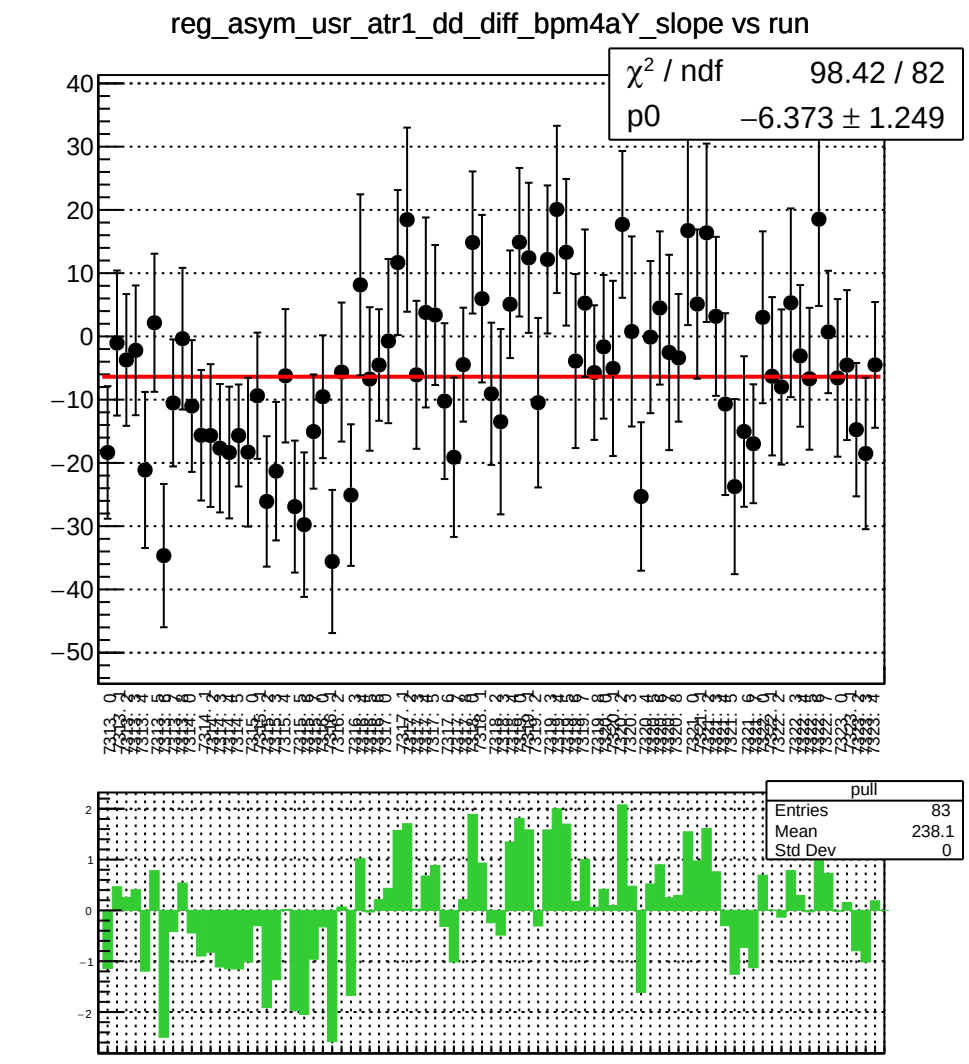

pull1D
Entries 83
Mean 0.1509
Std Dev 1.127

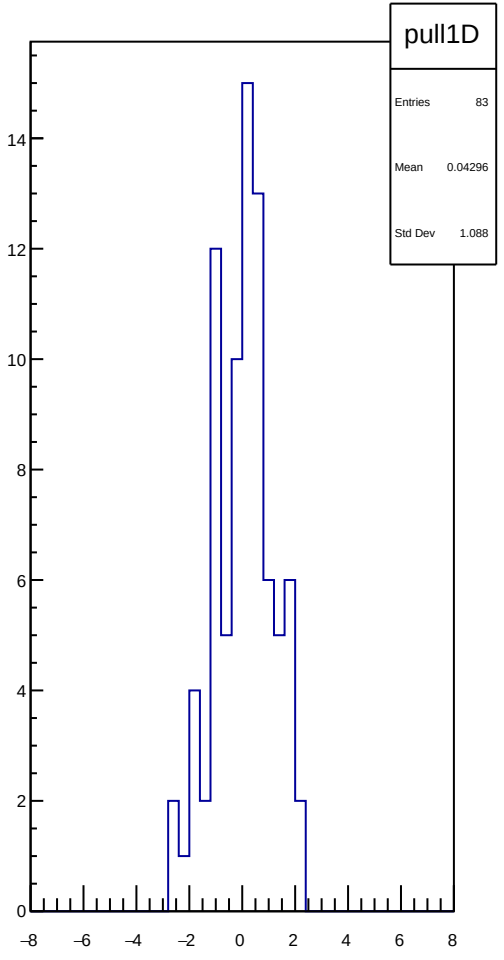

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.16 / 82
p0 1.18 ± 1.809
pull
Entries 83
Mean 730.6
Std Dev 0
pull1D
Entries 83
Mean −0.01451
Std Dev 0.9888

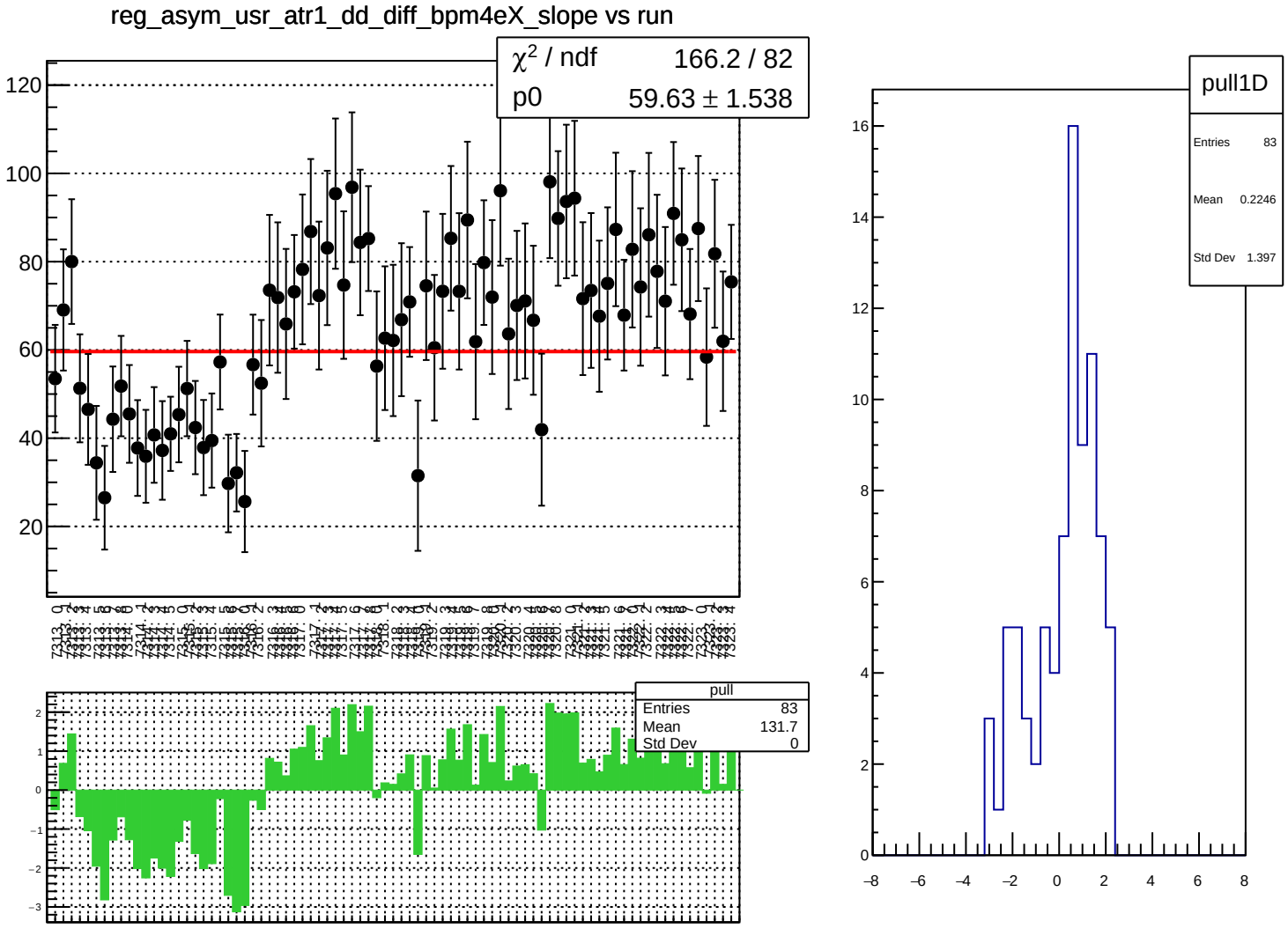

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 134.5 / 82
p0 −25.81 ± 0.07491
pull
Entries 83
Mean −347.3
Std Dev 0
pull1D
Entries 83
Mean −0.03201
Std Dev 1.272

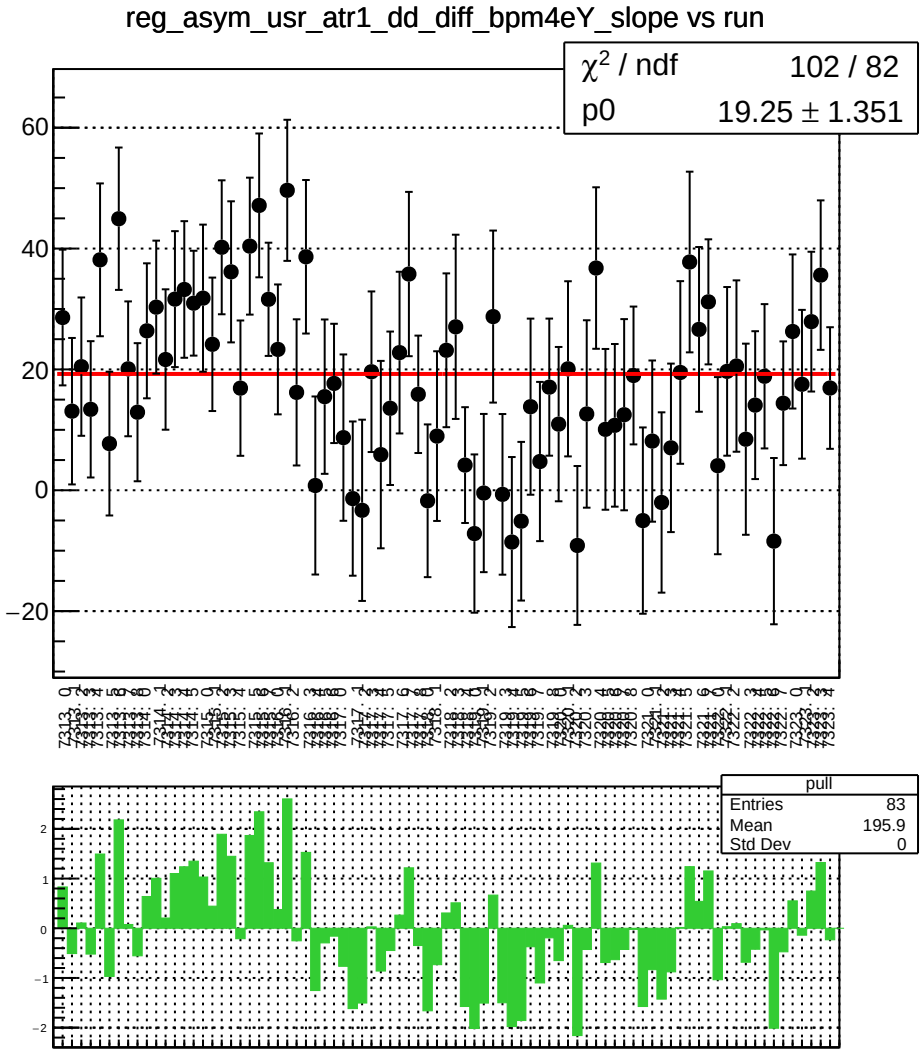

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 163.6 / 82
p0 −1.145 ± 1.548
pull
Entries 83
Mean 133.4
Std Dev 0

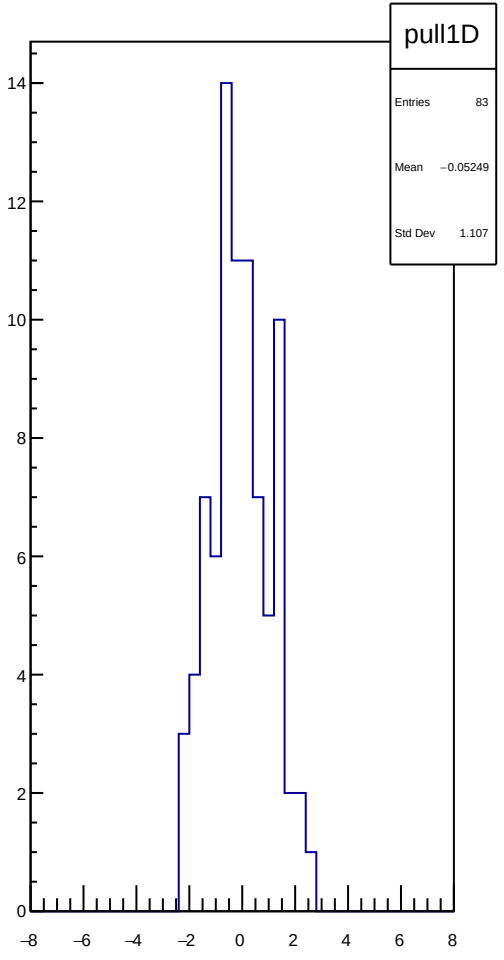

pull1D
Entries 83
Mean −0.2181
Std Dev 1.387

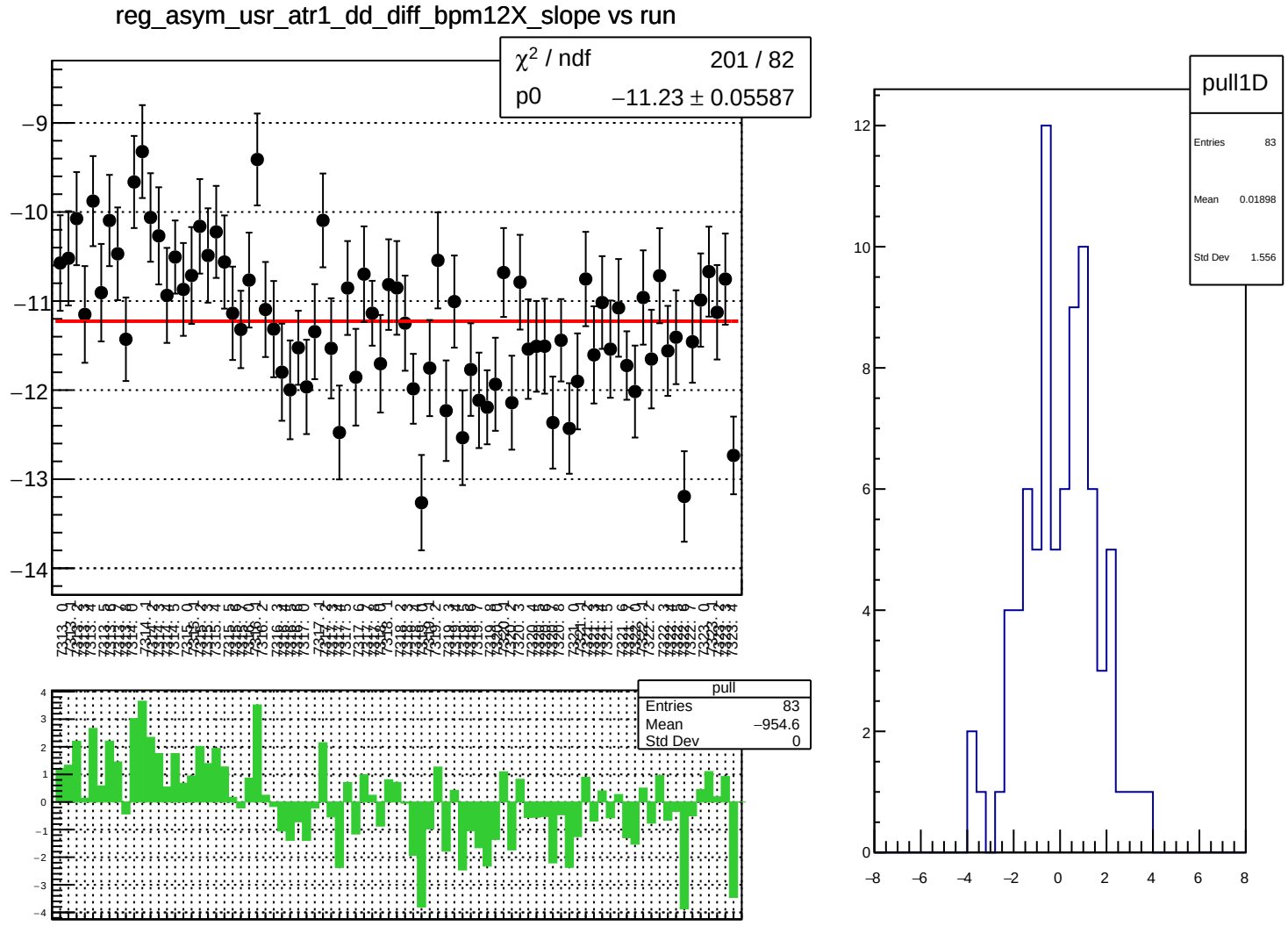

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.42 / 82
p0 −6.373 ± 1.249
pull
Entries 83
Mean 238.1
Std Dev 0

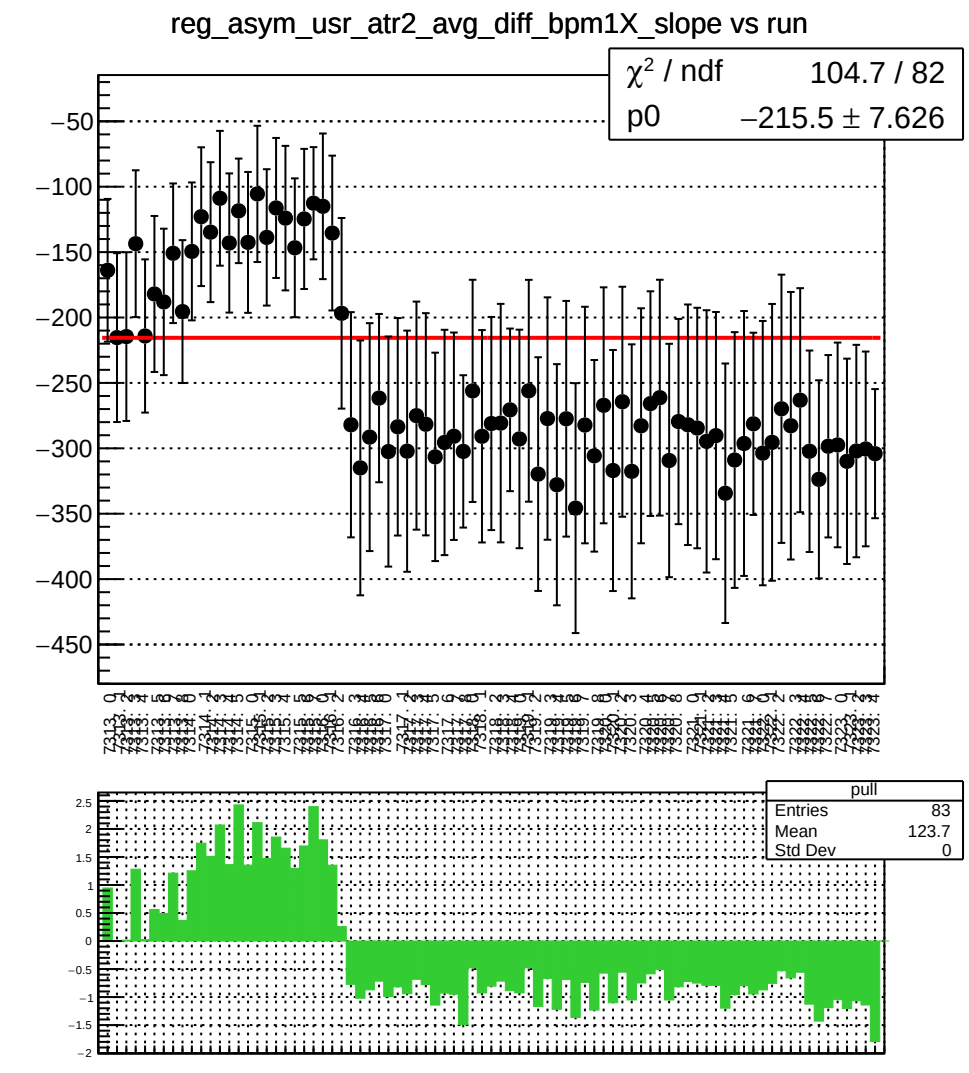

pull1D
Entries 83
Mean 0.04296
Std Dev 1.088

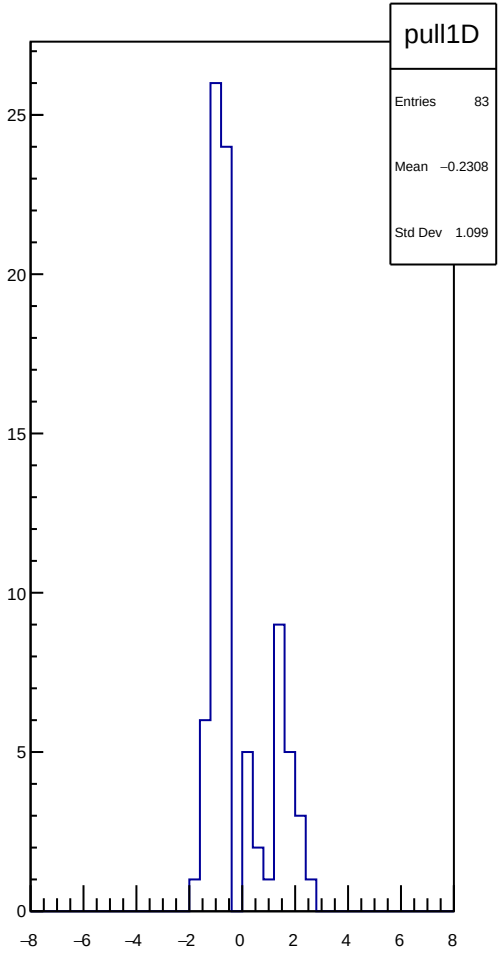

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 166.2 / 82
p0 59.63 ± 1.538
120
100
80
60
40
20
pull
Entries 83
Mean 131.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean 0.2246
Std Dev 1.397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

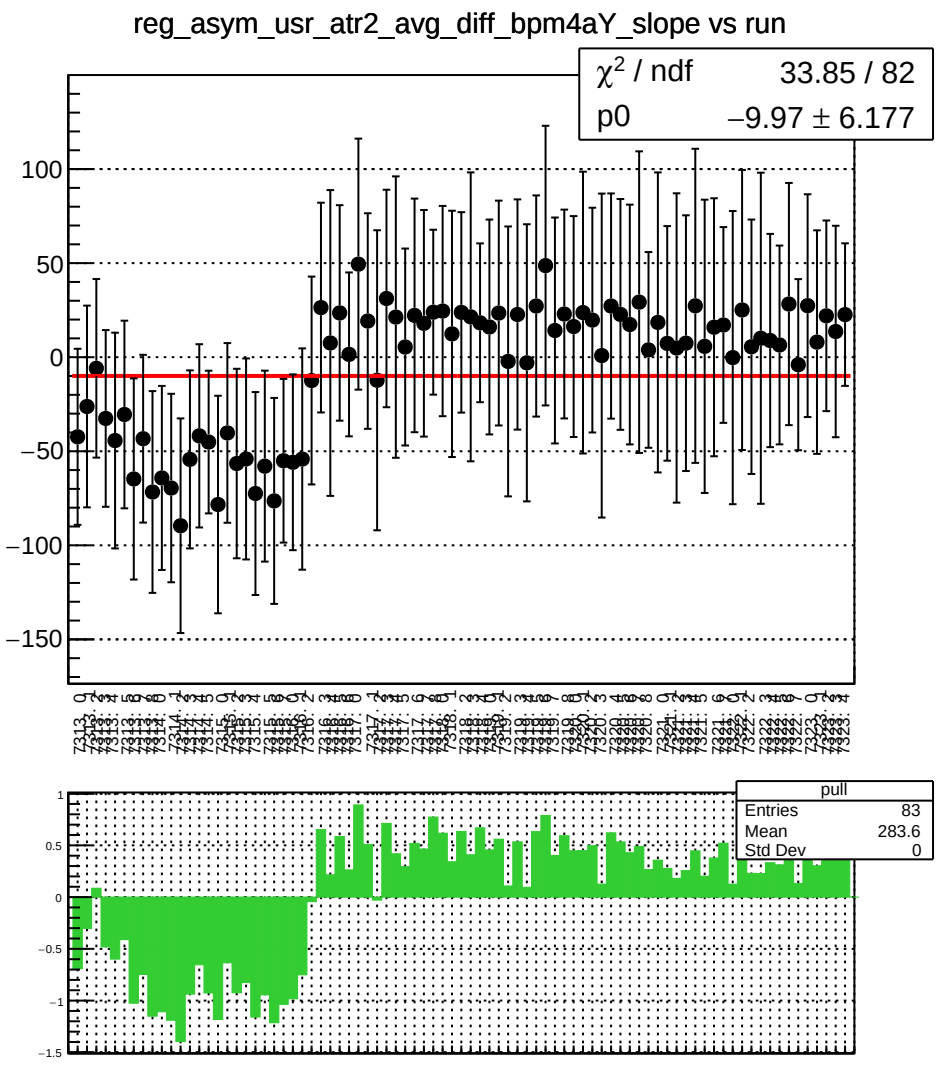

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 102 / 82
p0 19.25 ± 1.351
pull
Entries 83
Mean 195.9
Std Dev 0

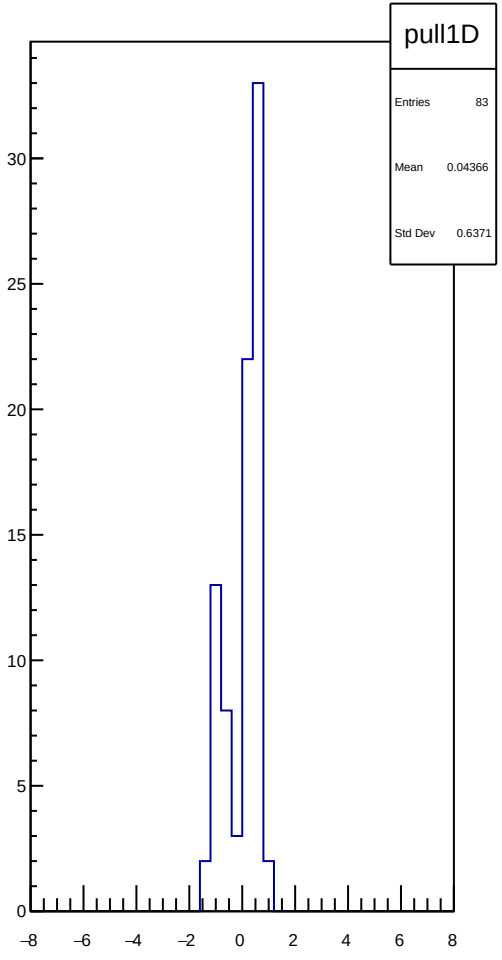

pull1D
Entries 83
Mean −0.05249
Std Dev 1.107

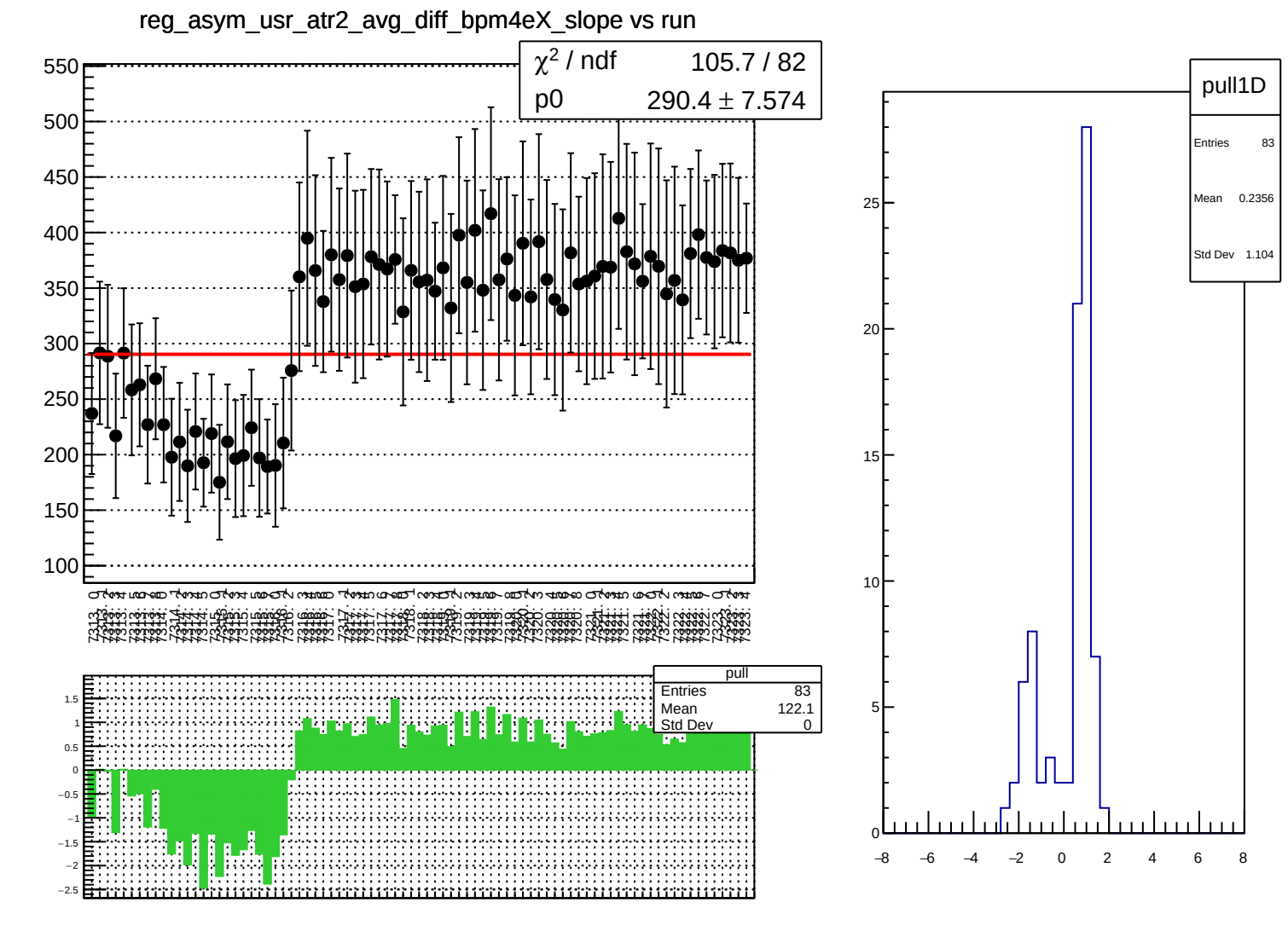

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 201 / 82
p0 −11.23 ± 0.05587
pull
Entries 83
Mean −954.6
Std Dev 0
pull1D
Entries 83
Mean 0.01898
Std Dev 1.556

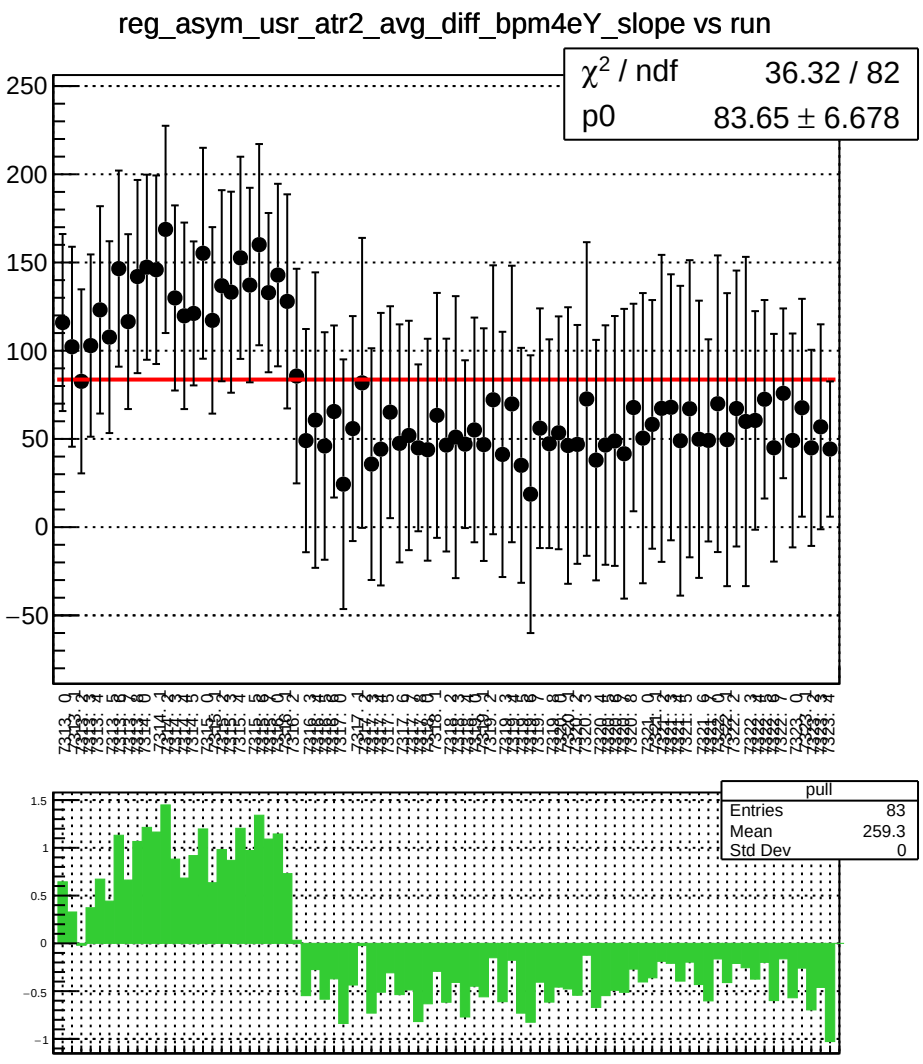

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 104.7 / 82
p0 −215.5 ± 7.626
pull
Entries 83
Mean 123.7
Std Dev 0

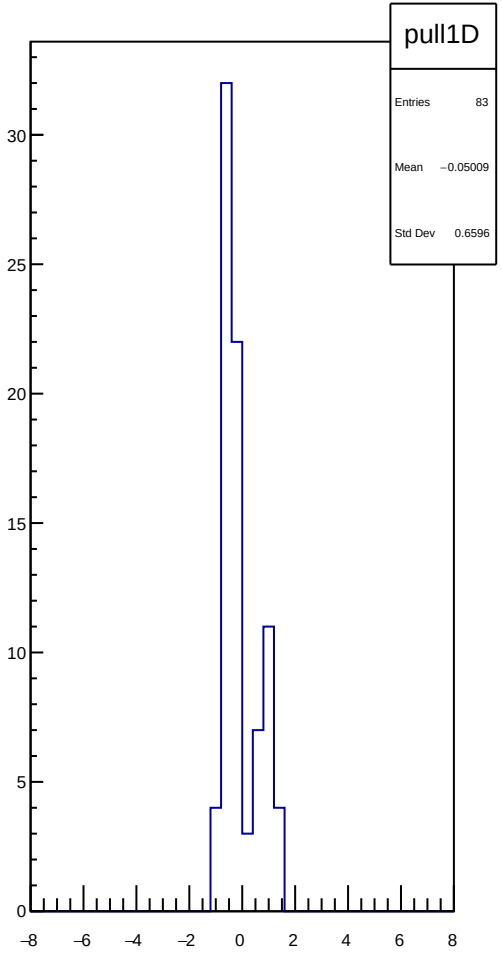

pull1D
Entries 83
Mean −0.2308
Std Dev 1.099

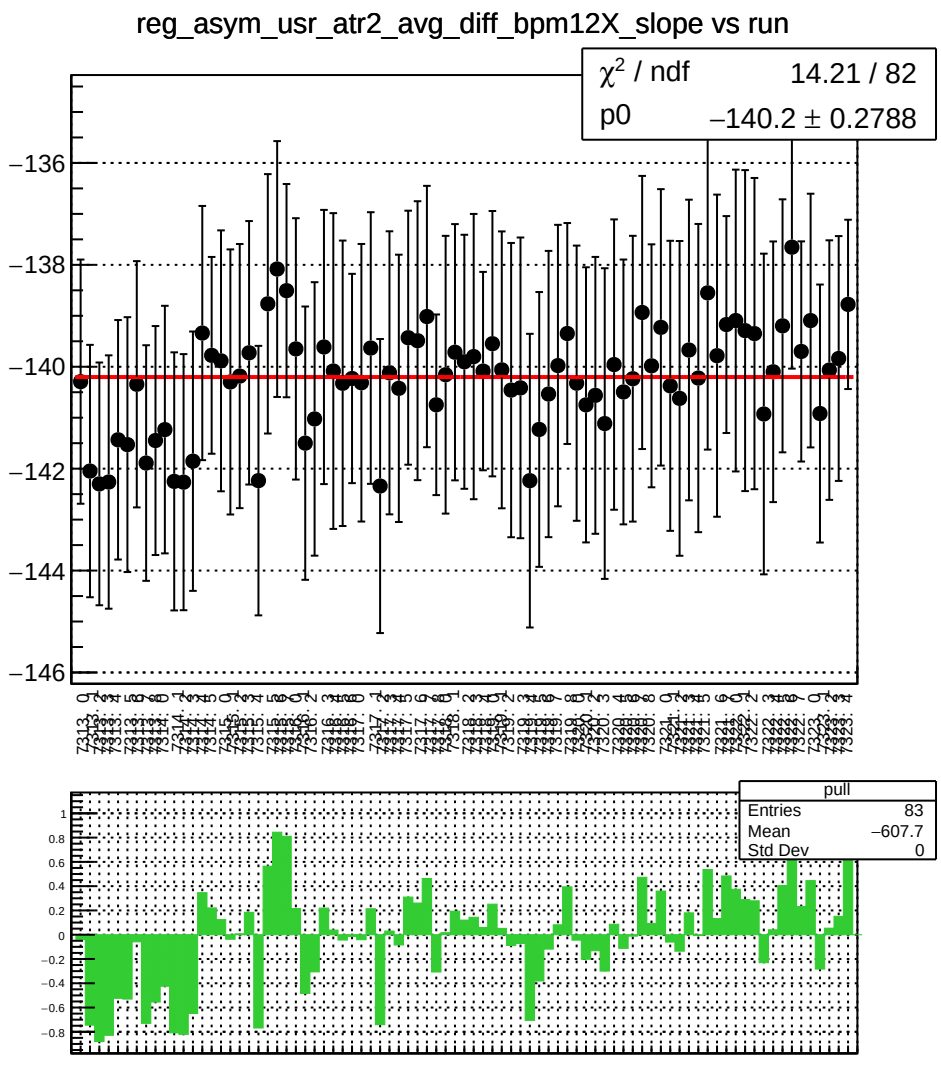

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.85 / 82
p0 −9.97 ± 6.177
pull
Entries 83
Mean 283.6
Std Dev 0

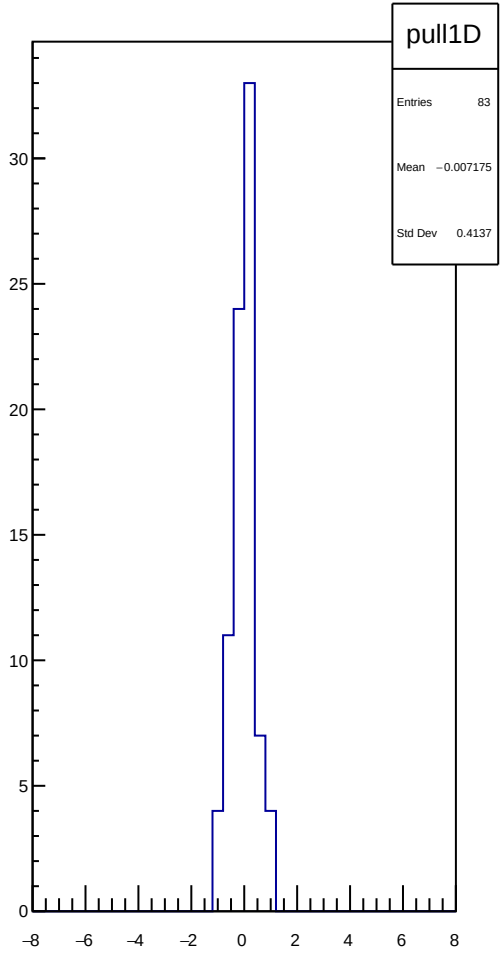

pull1D
Entries 83
Mean 0.04366
Std Dev 0.6371

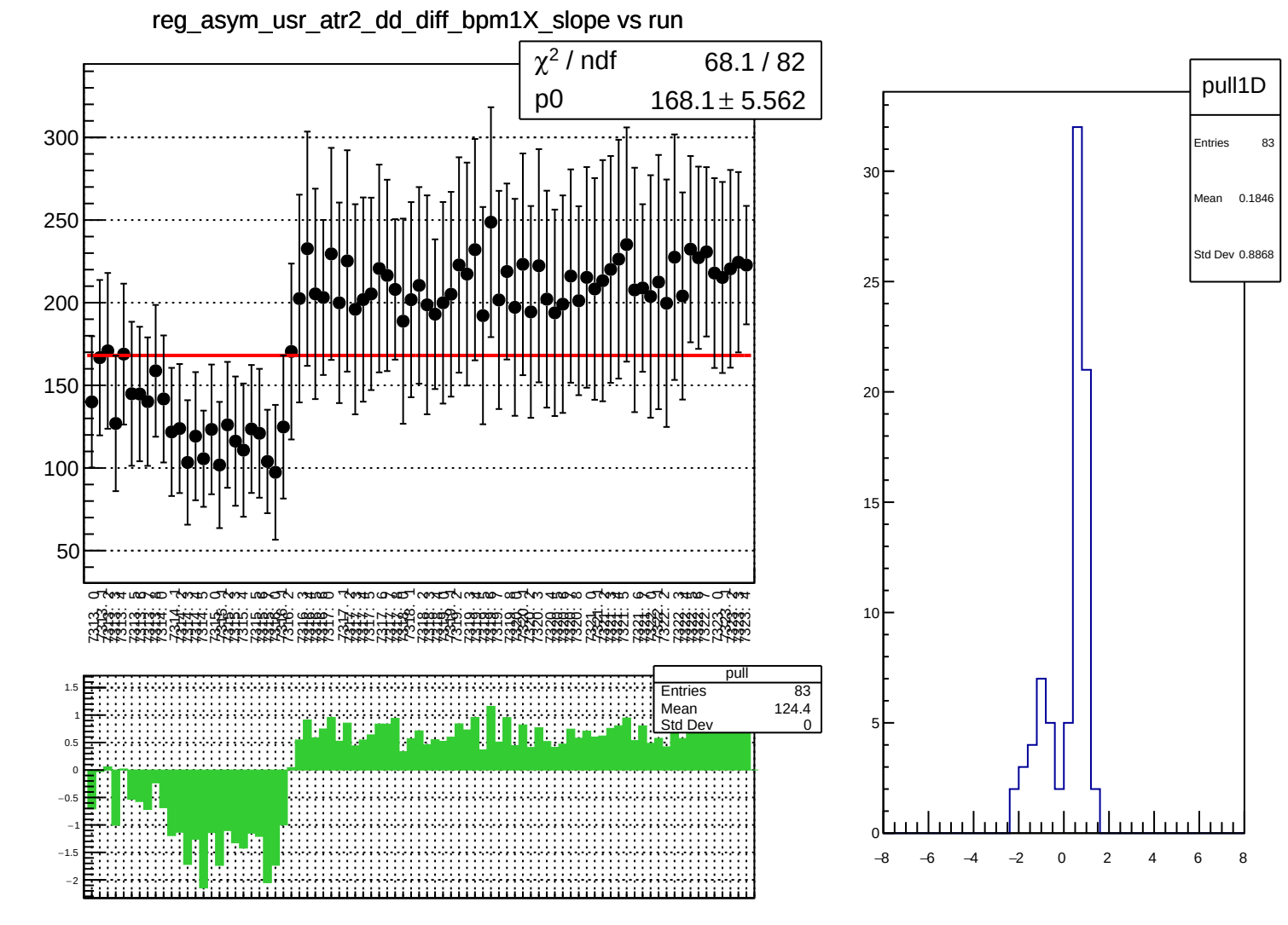

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.7 / 82
p0 290.4 ± 7.574
pull
Entries 83
Mean 122.1
Std Dev 0
pull1D
Entries 83
Mean 0.2356
Std Dev 1.104

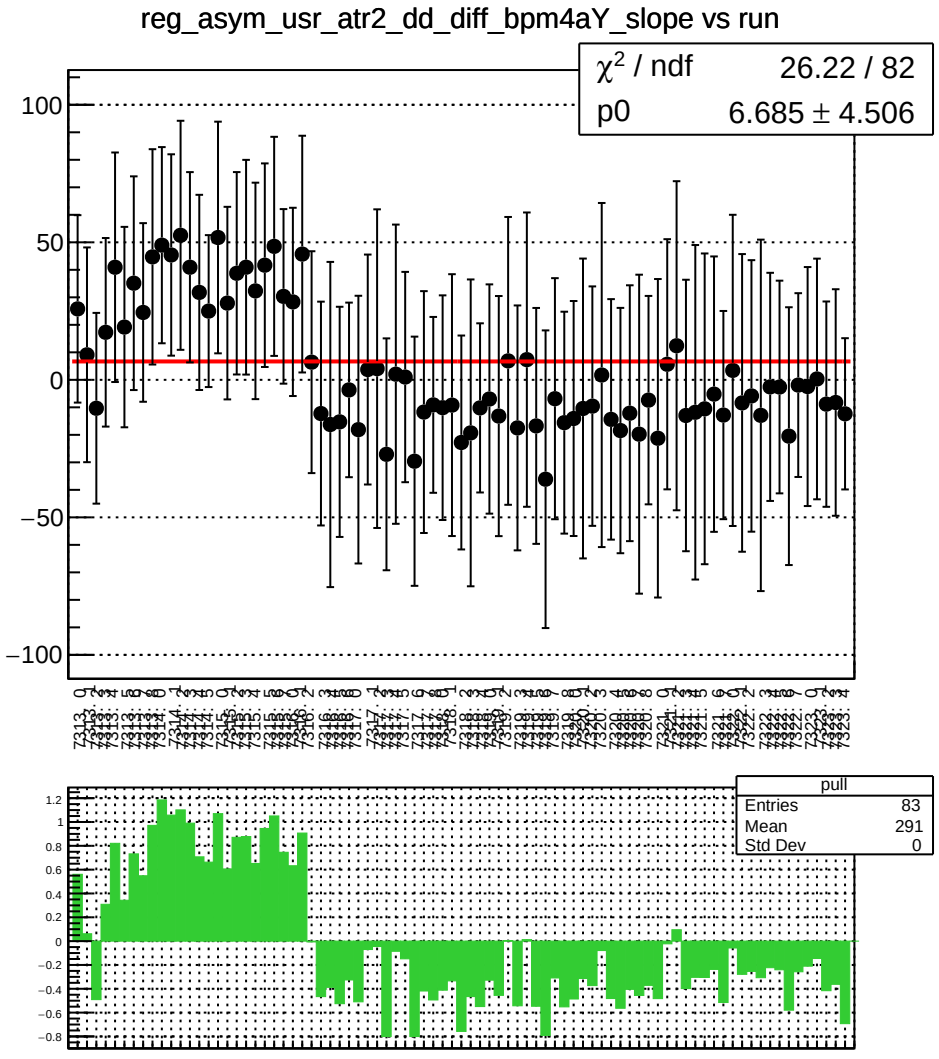

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.32 / 82
p0 83.65 ± 6.678
pull
Entries 83
Mean 259.3
Std Dev 0

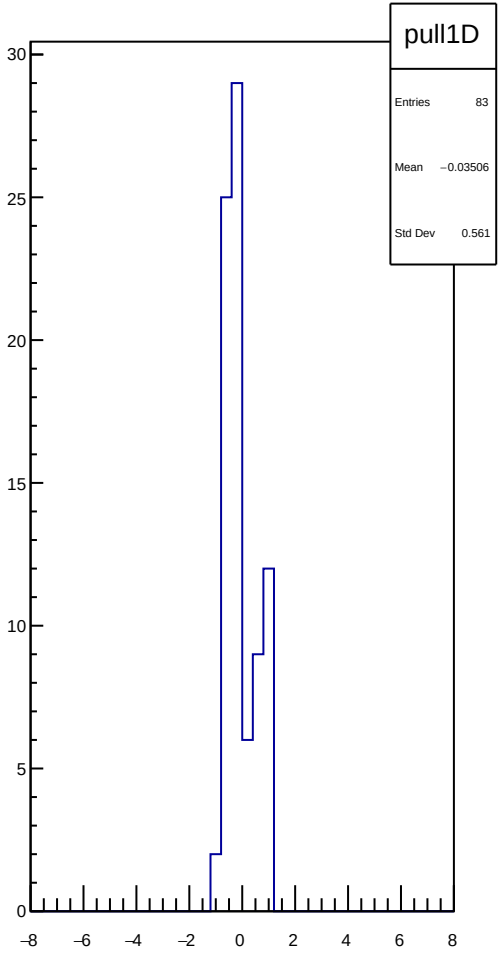

pull1D
Entries 83
Mean −0.05009
Std Dev 0.6596

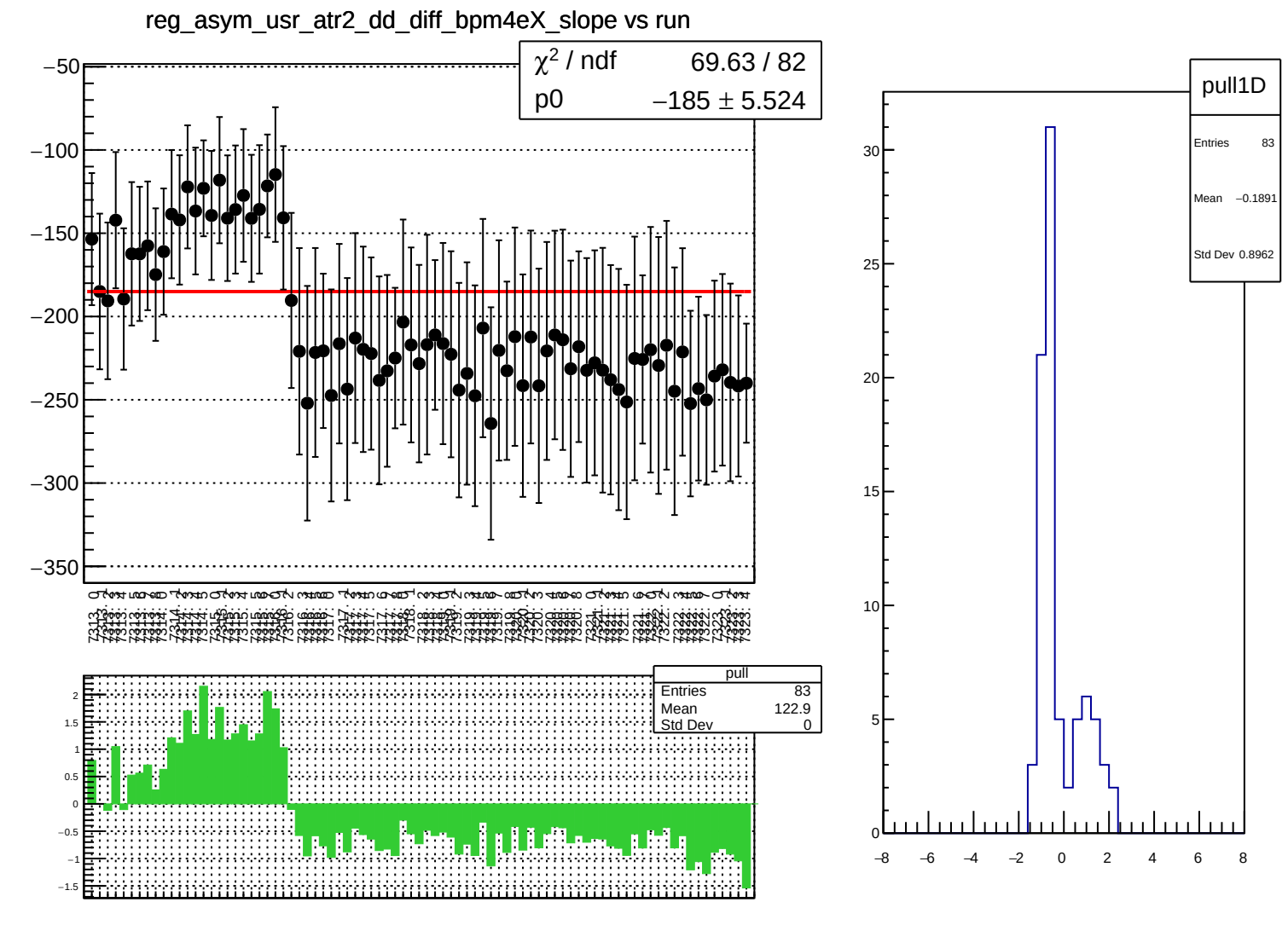

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.21 / 82
p0 −140.2 ± 0.2788
pull
Entries 83
Mean −607.7
Std Dev 0

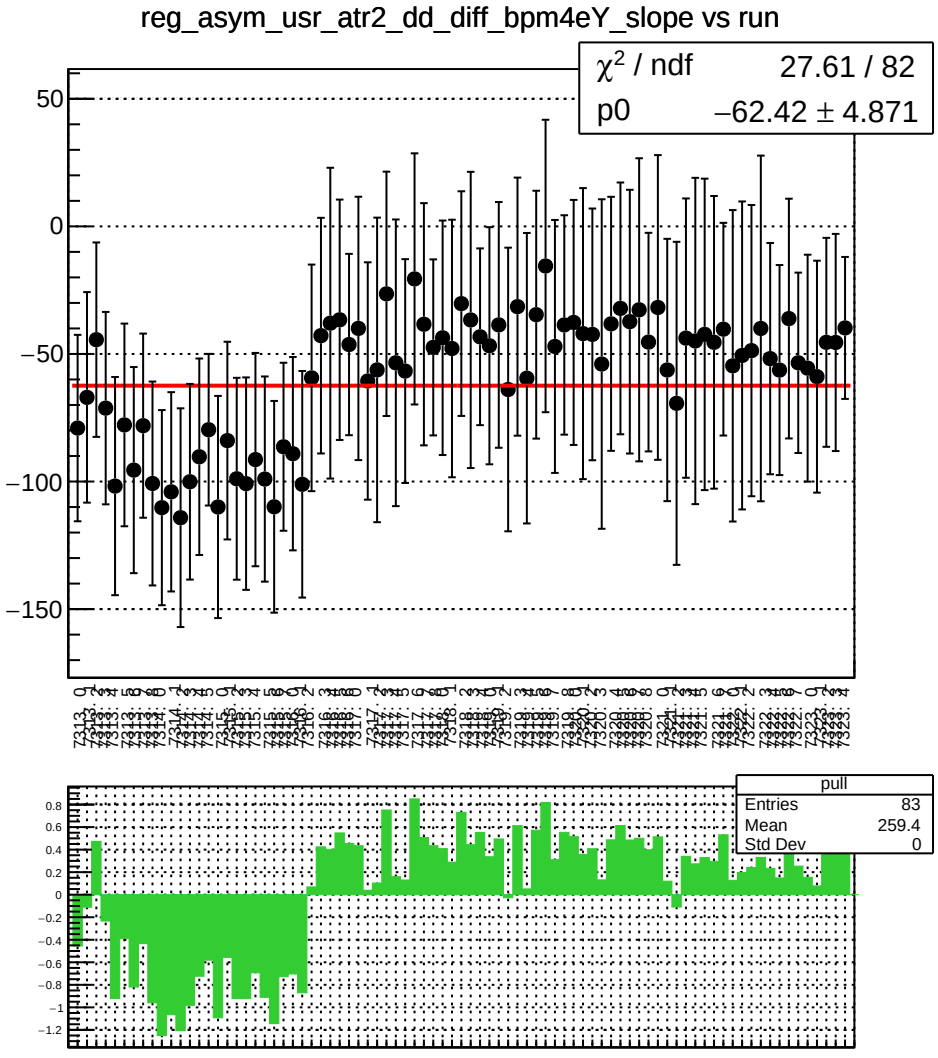

pull1D
Entries 83
Mean −0.007175
Std Dev 0.4137

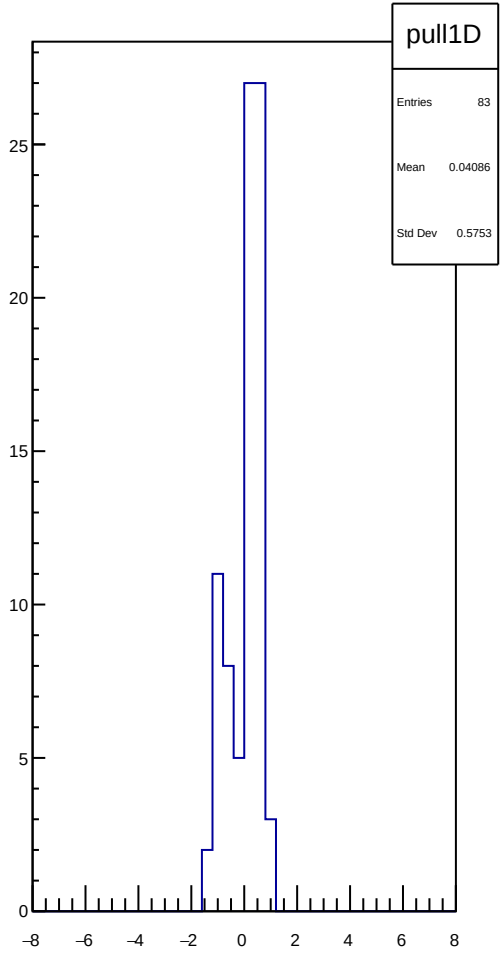

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 68.1 / 82
p0 168.1 ± 5.562
pull
Entries 83
Mean 124.4
Std Dev 0
pull1D
Entries 83
Mean 0.1846
Std Dev 0.8868

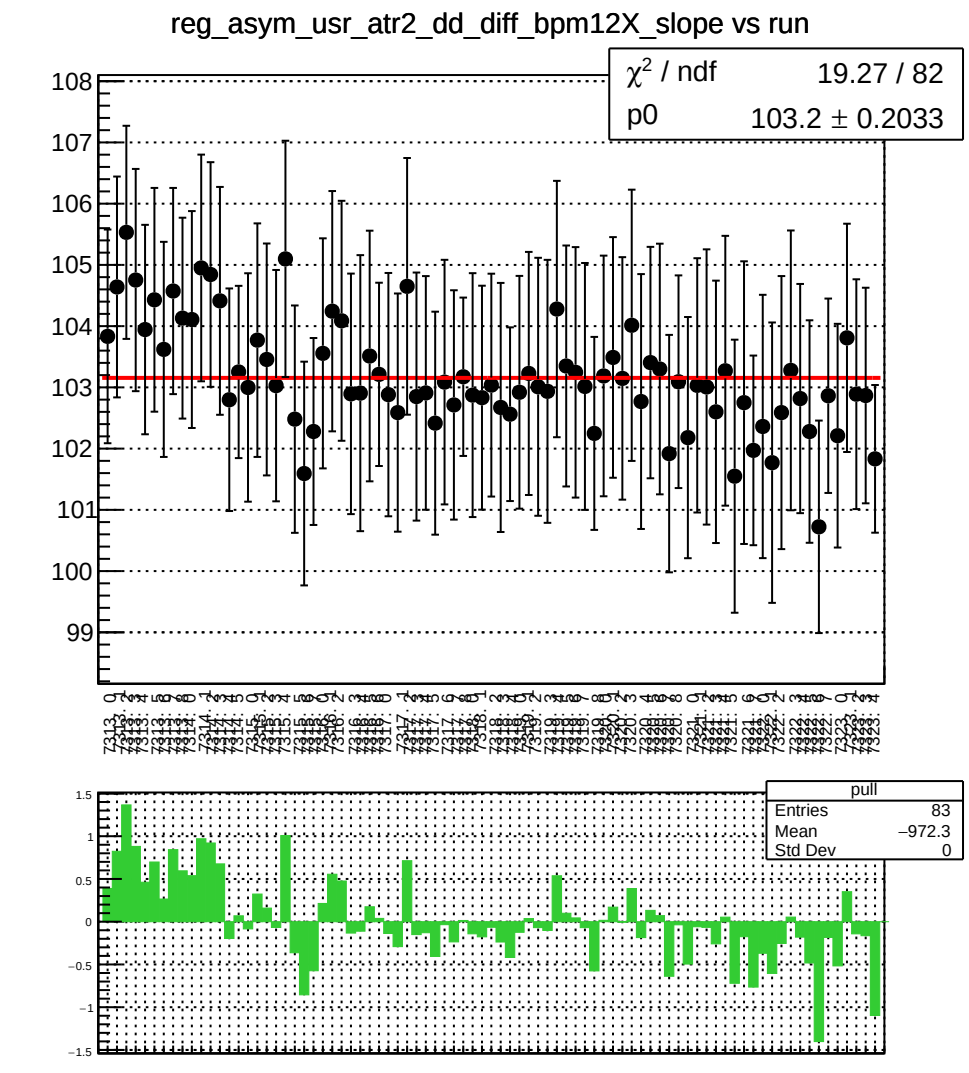

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.22 / 82
p0 6.685 ± 4.506
pull
Entries 83
Mean 291
Std Dev 0

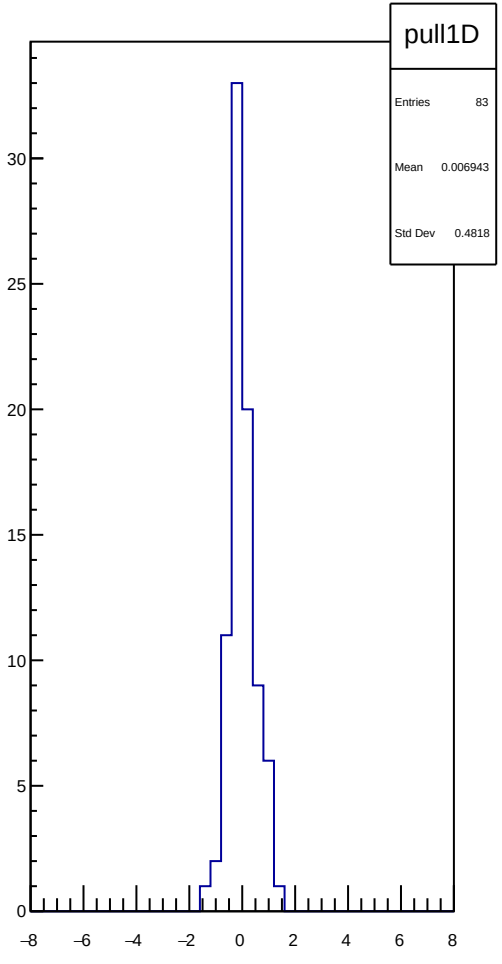

pull1D
Entries 83
Mean −0.03506
Std Dev 0.561

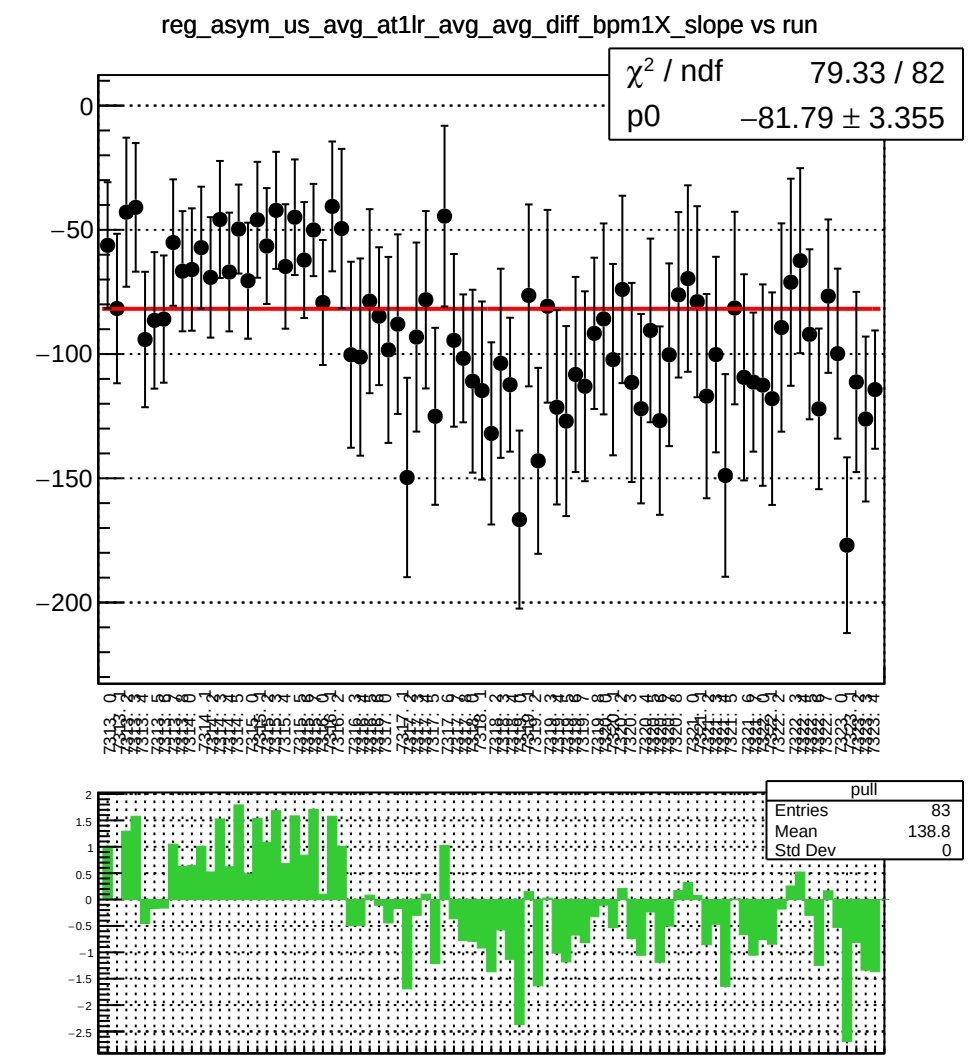

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.63 / 82
p0 −185 ± 5.524
pull
Entries 83
Mean 122.9
Std Dev 0
pull1D
Entries 83
Mean −0.1891
Std Dev 0.8962

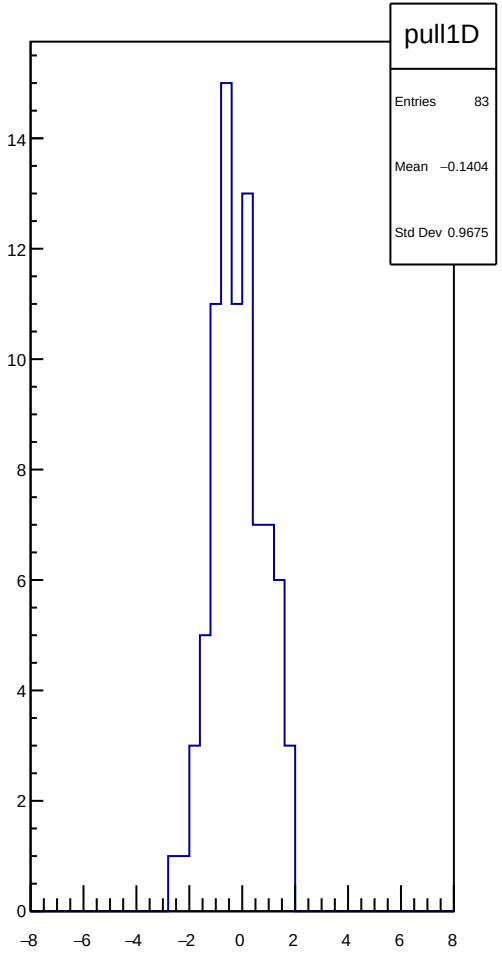

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.61 / 82
p0 −62.42 ± 4.871
50
0
−50
−100
−150
pull
Entries 83
Mean 259.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

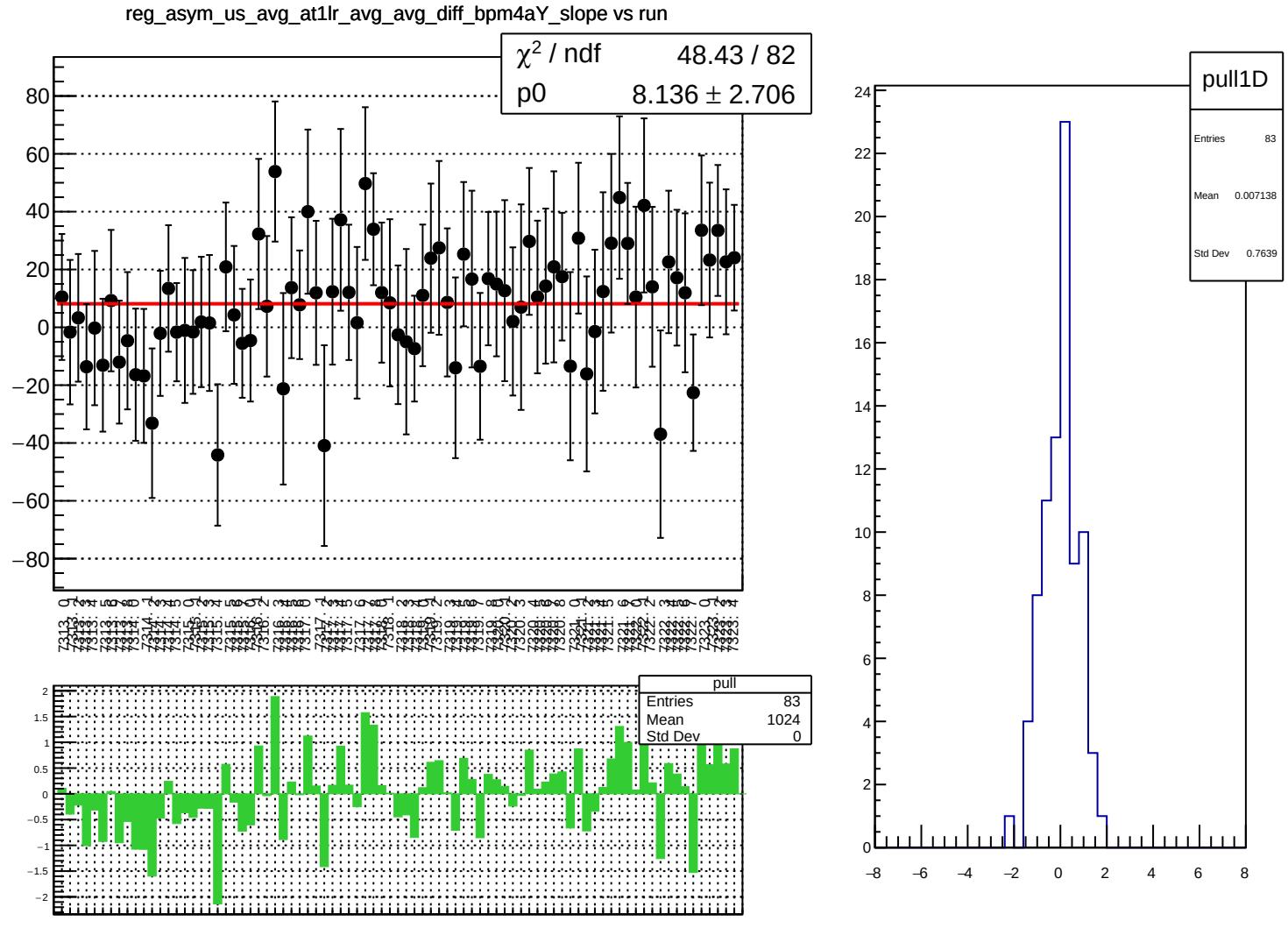

pull1D
Entries 83
Mean 0.04086
Std Dev 0.5753
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

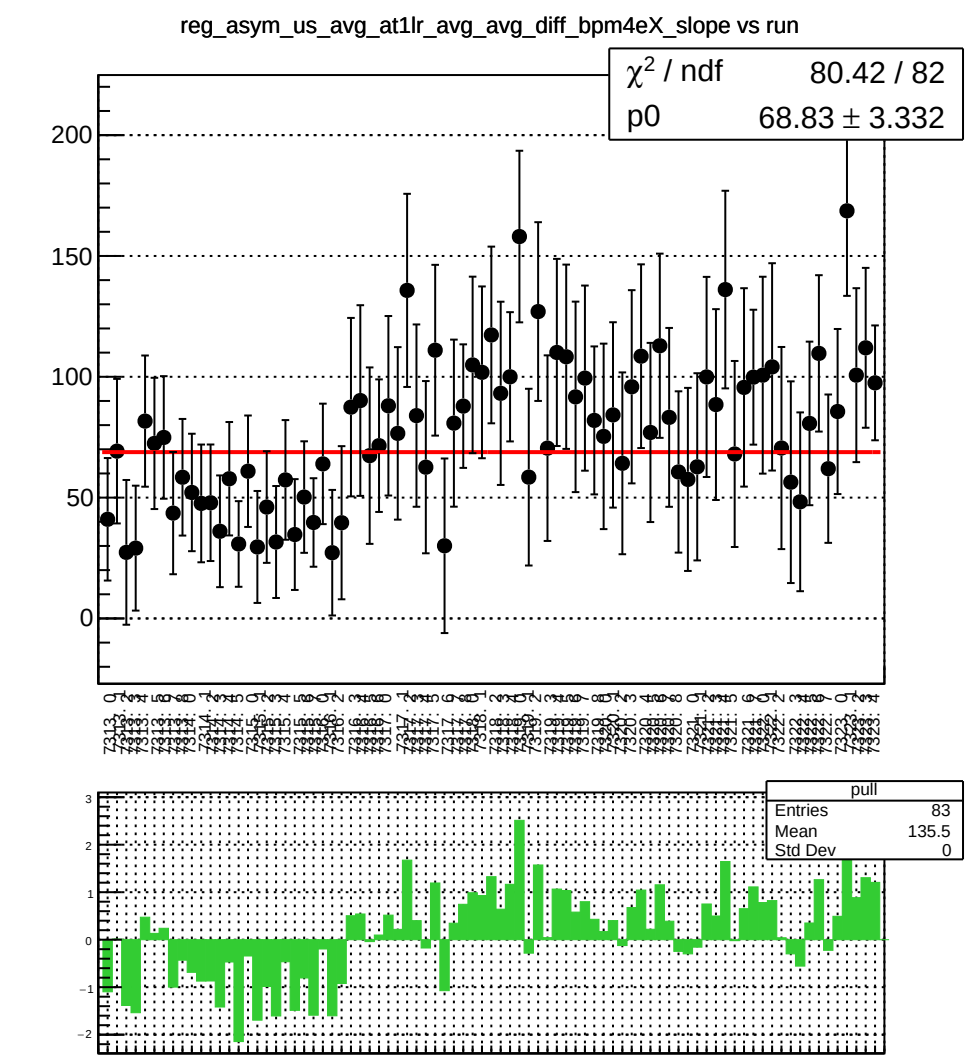

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.27 / 82
p0 103.2 ± 0.2033
pull
Entries 83
Mean −972.3
Std Dev 0

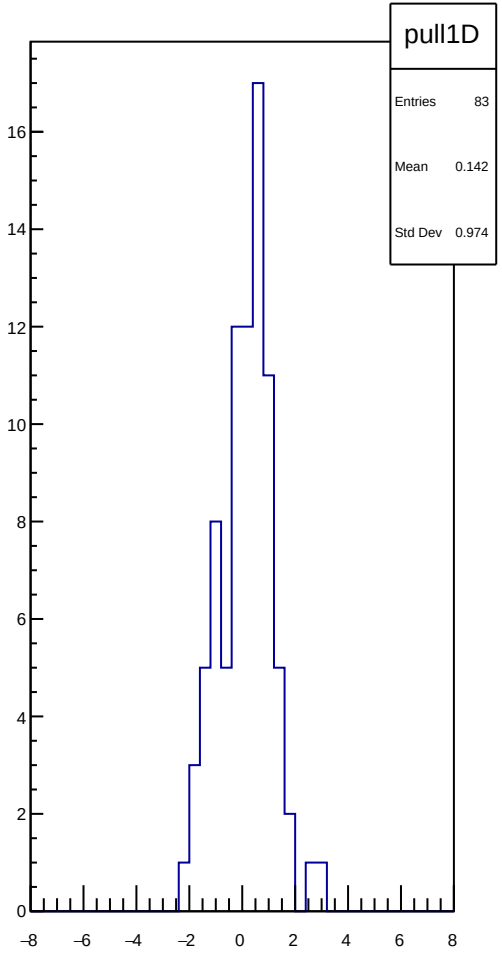

pull1D
Entries 83
Mean 0.006943
Std Dev 0.4818

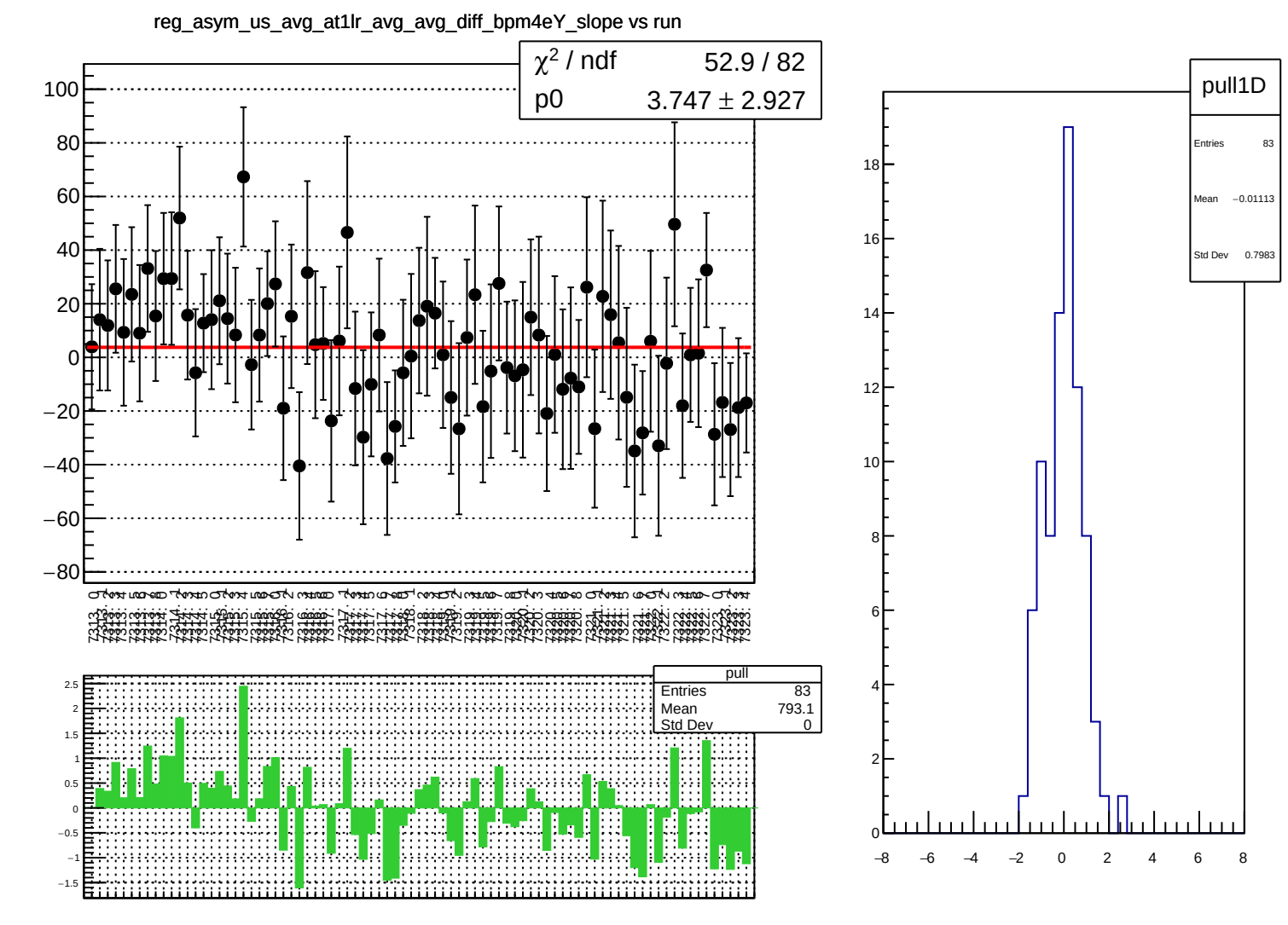

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 79.33 / 82
p0 −81.79 ± 3.355
pull
Entries 83
Mean 138.8
Std Dev 0

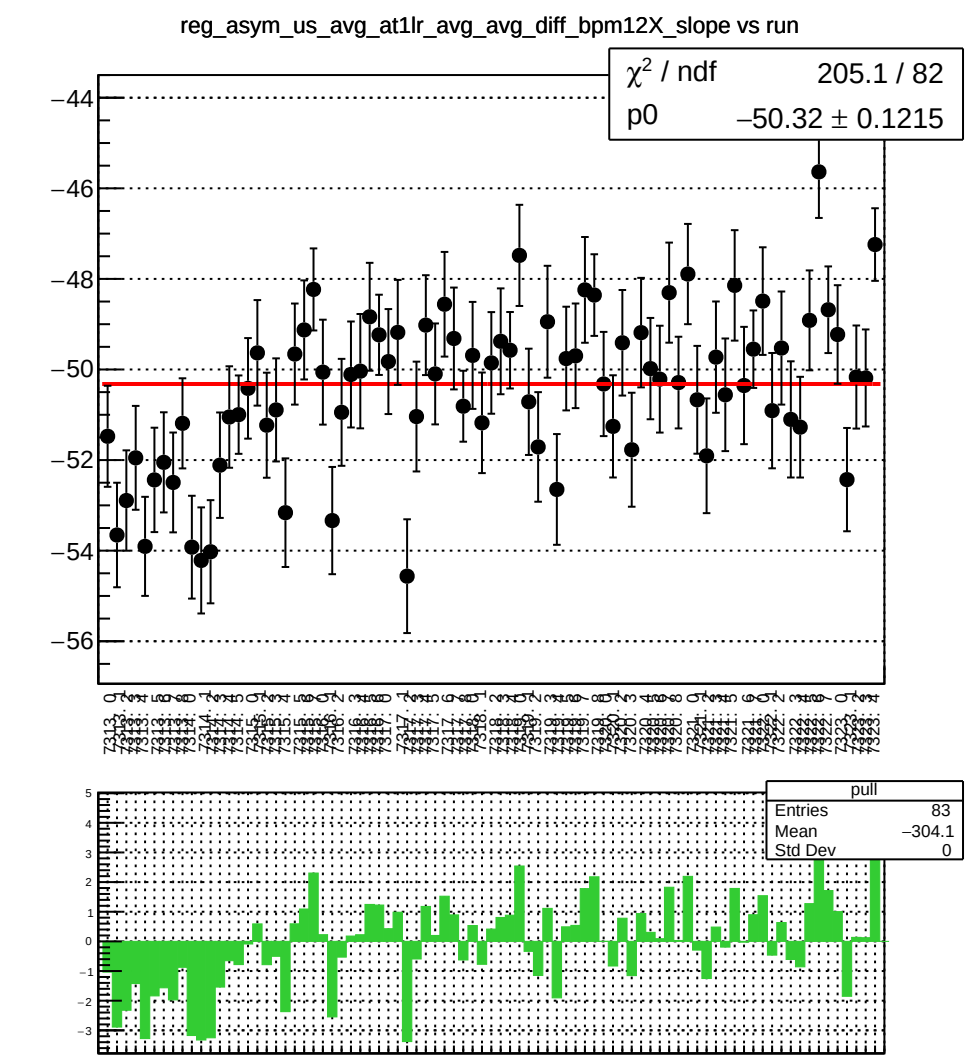

pull1D
Entries 83
Mean −0.1404
Std Dev 0.9675

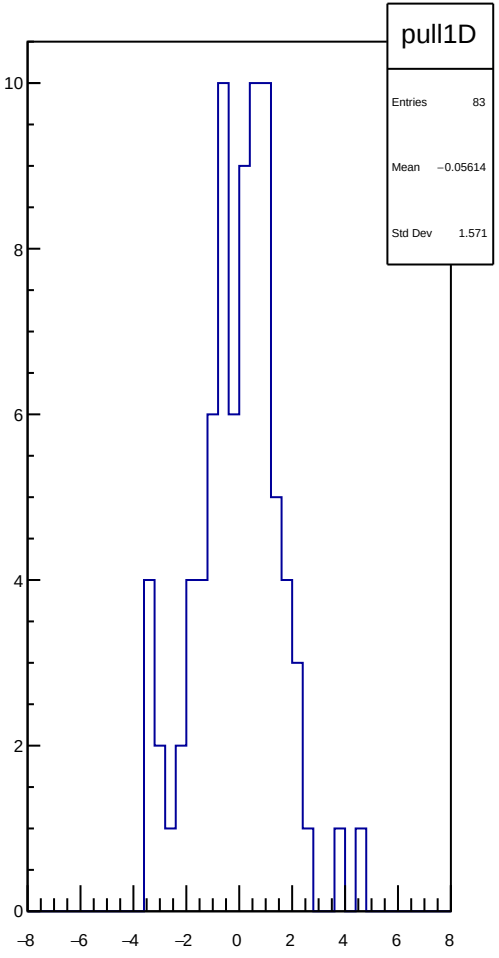

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.43 / 82
p0 8.136 ± 2.706
pull
Entries 83
Mean 1024
Std Dev 0
pull1D
Entries 83
Mean 0.007138
Std Dev 0.7639

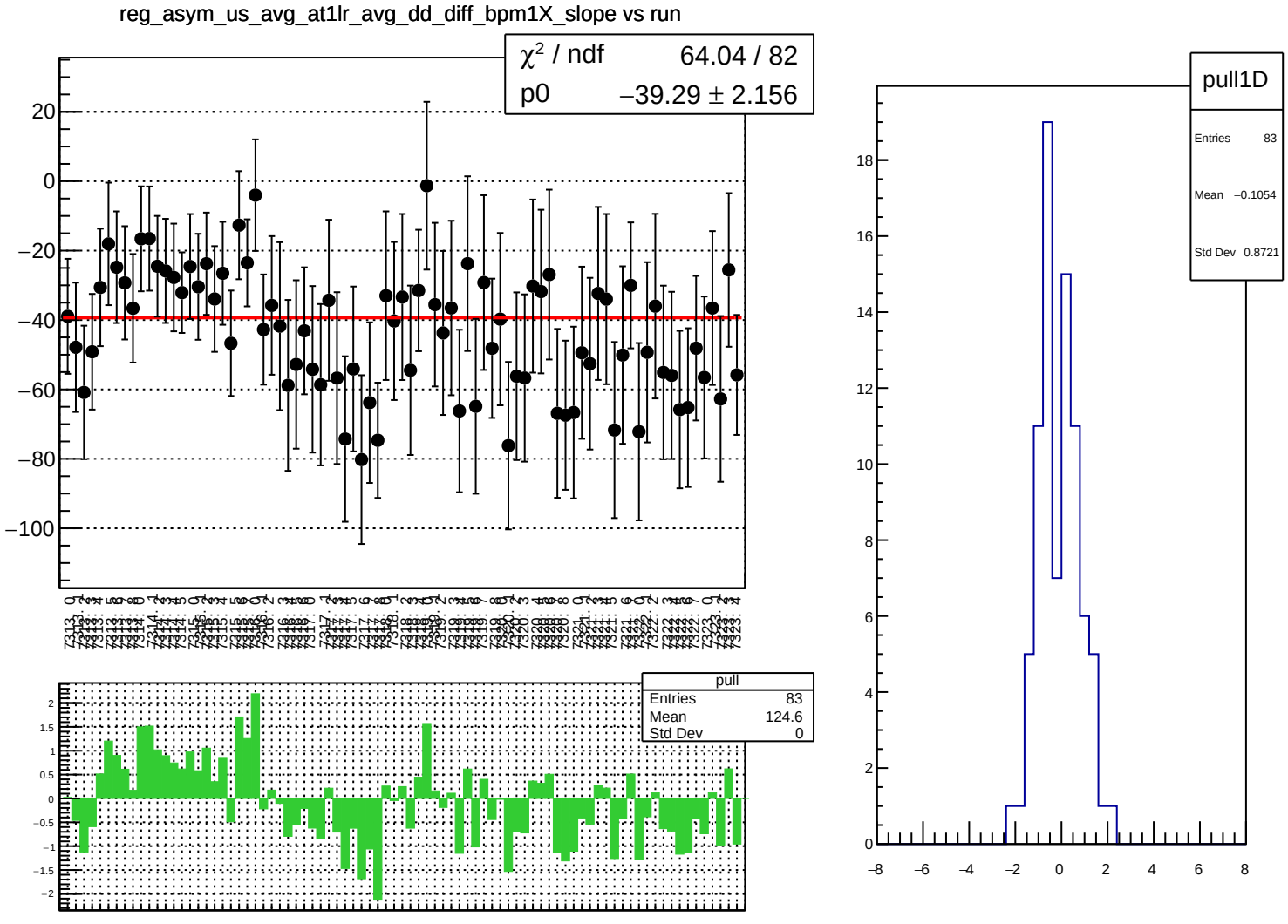

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.42 / 82
p0 68.83 ± 3.332
200
150
100
50
0
pull
Entries 83
Mean 135.5
Std Dev 0
3
2
1
0
−1
−2

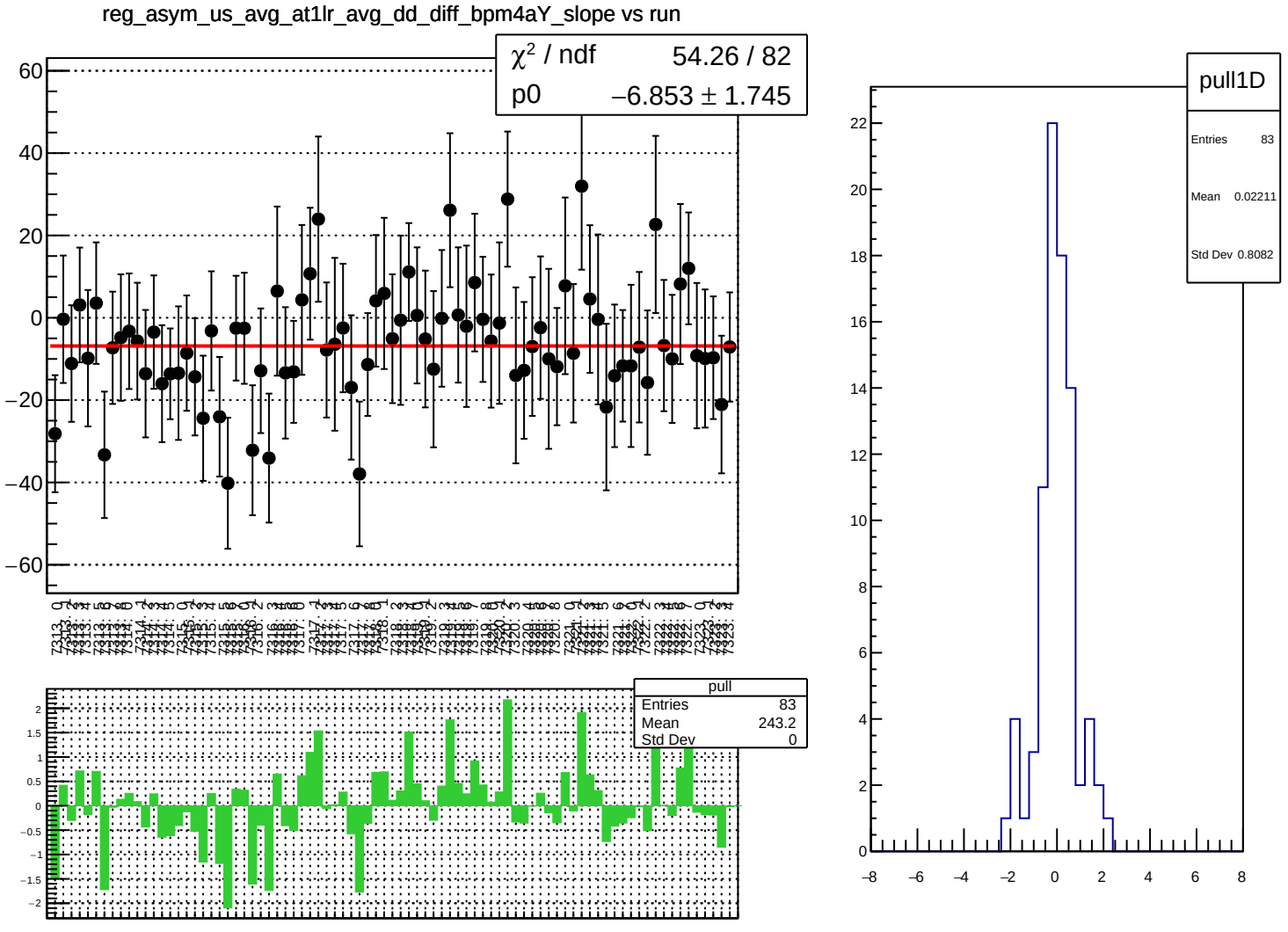

pull1D
Entries 83
Mean 0.142
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

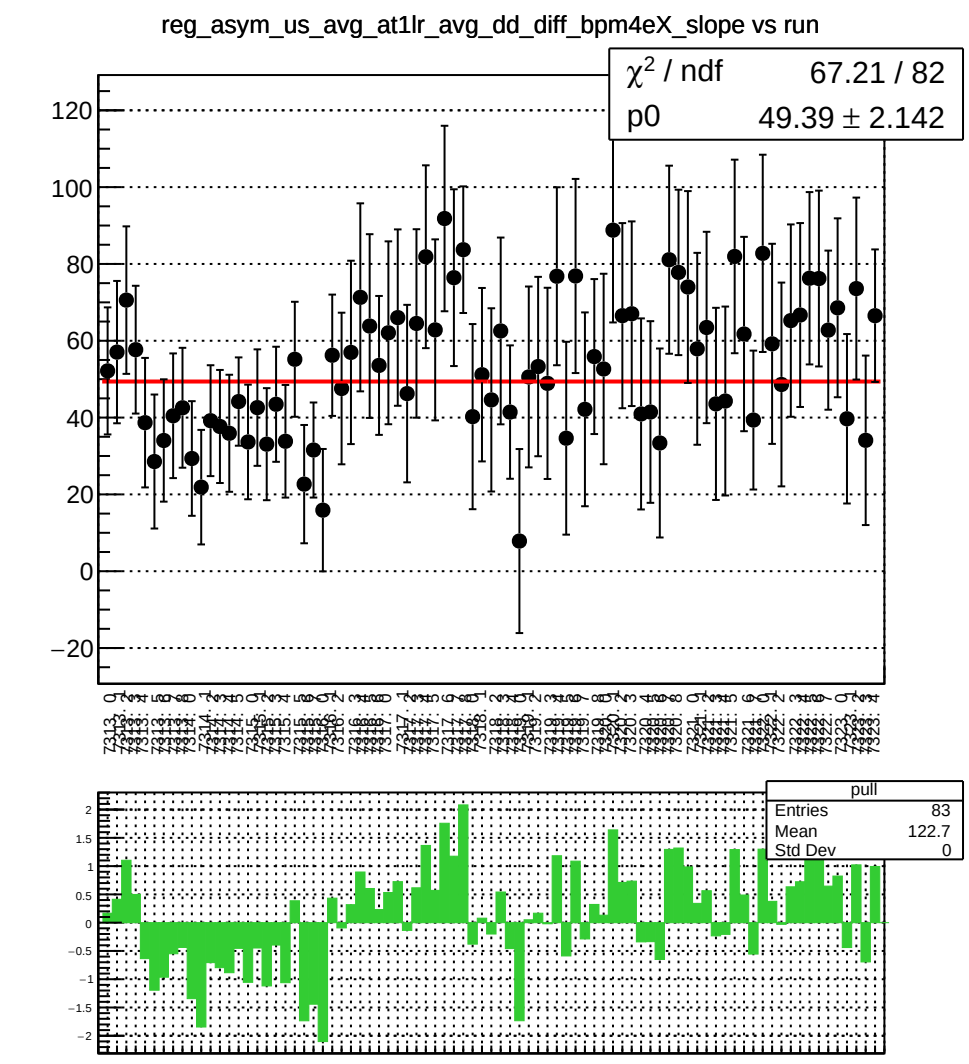

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.9 / 82
p0 3.747 ± 2.927
pull
Entries 83
Mean 793.1
Std Dev 0
pull1D
Entries 83
Mean −0.01113
Std Dev 0.7983

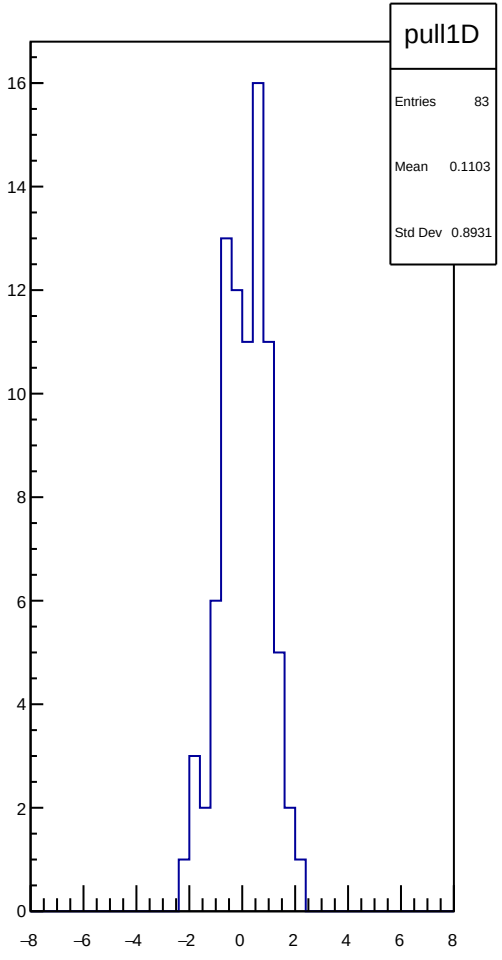

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 205.1 / 82
p0 −50.32 ± 0.1215
pull
Entries 83
Mean −304.1
Std Dev 0

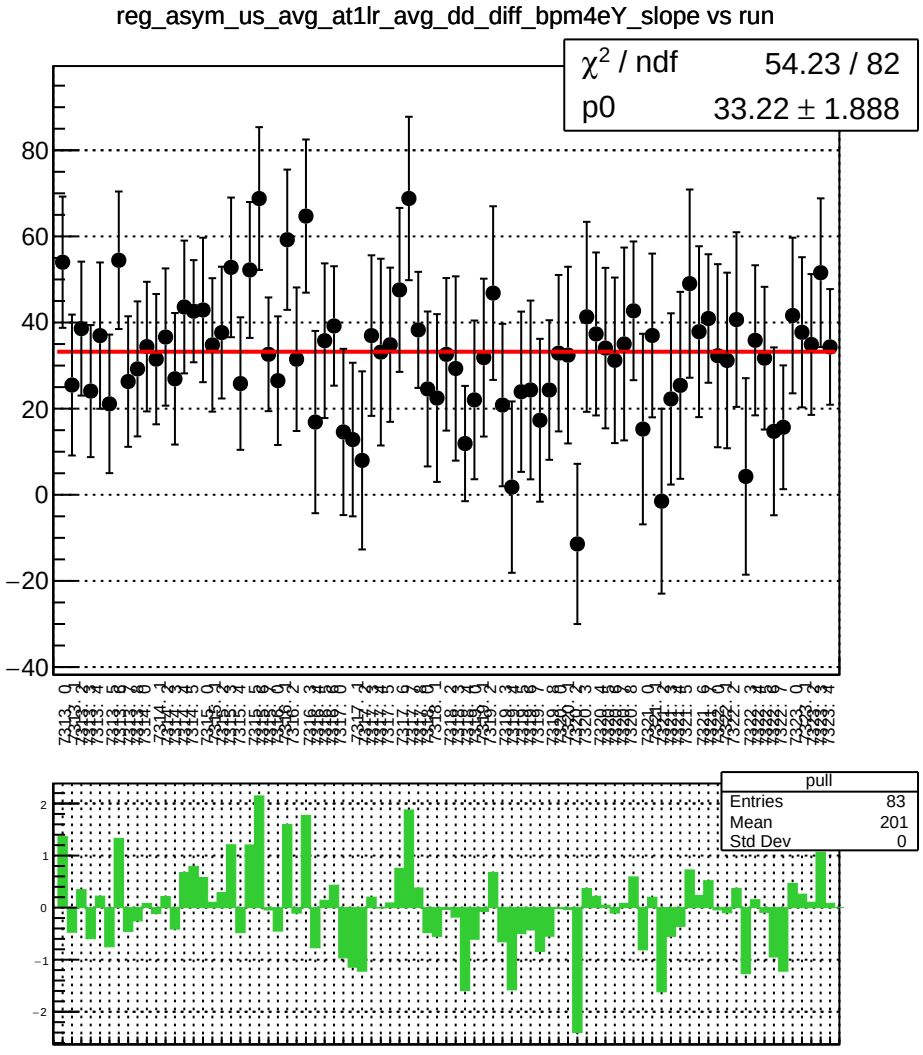

pull1D
Entries 83
Mean −0.05614
Std Dev 1.571

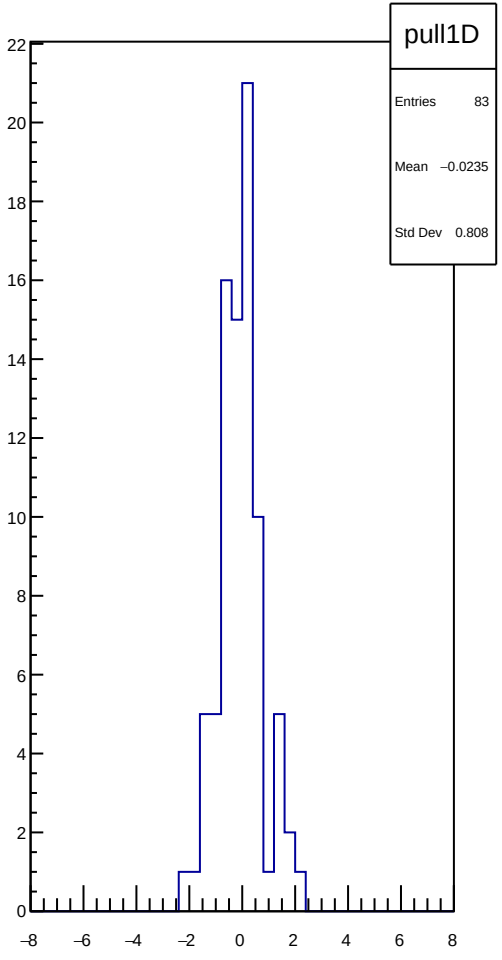

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 64.04 / 82
p0 −39.29 ± 2.156
pull
Entries 83
Mean 124.6
Std Dev 0
pull1D
Entries 83
Mean −0.1054
Std Dev 0.8721

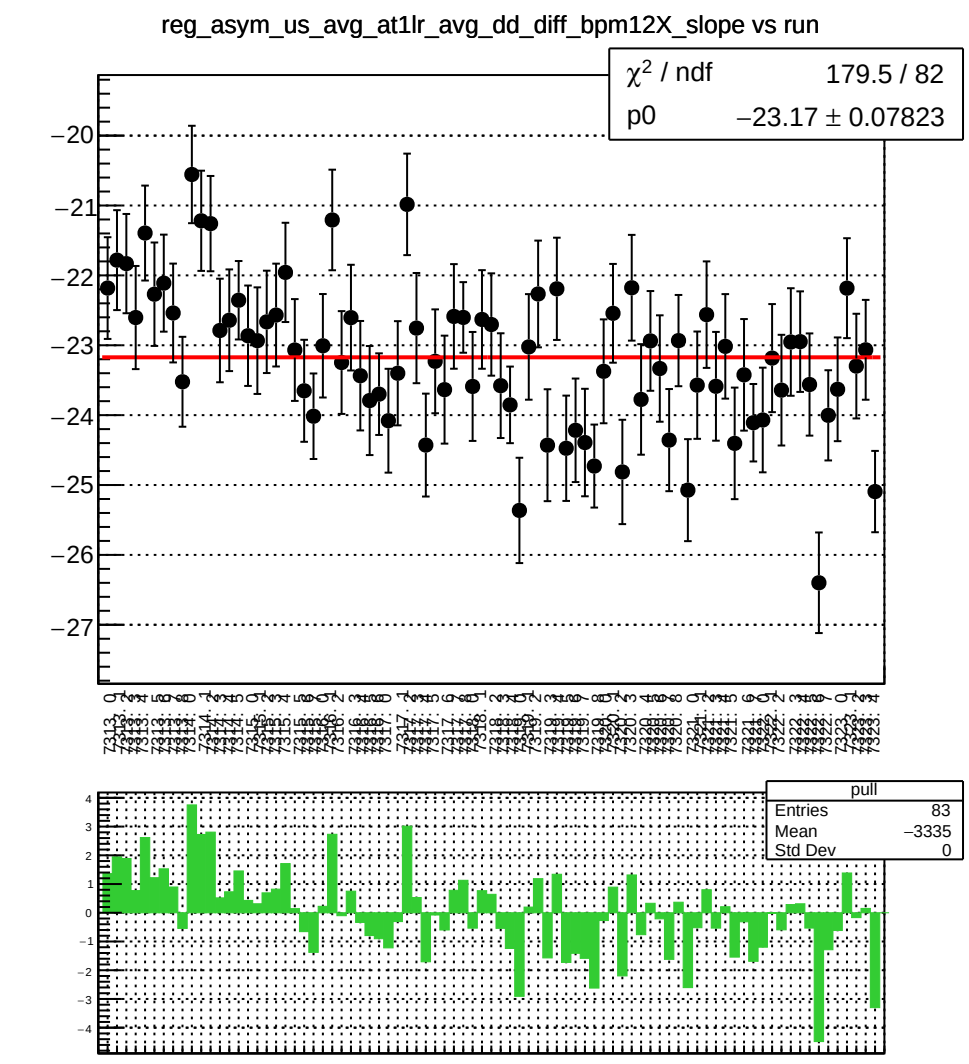

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.26 / 82
p0 −6.853 ± 1.745
pull
Entries 83
Mean 243.2
Std Dev 0
pull1D
Entries 83
Mean 0.02211
Std Dev 0.8082

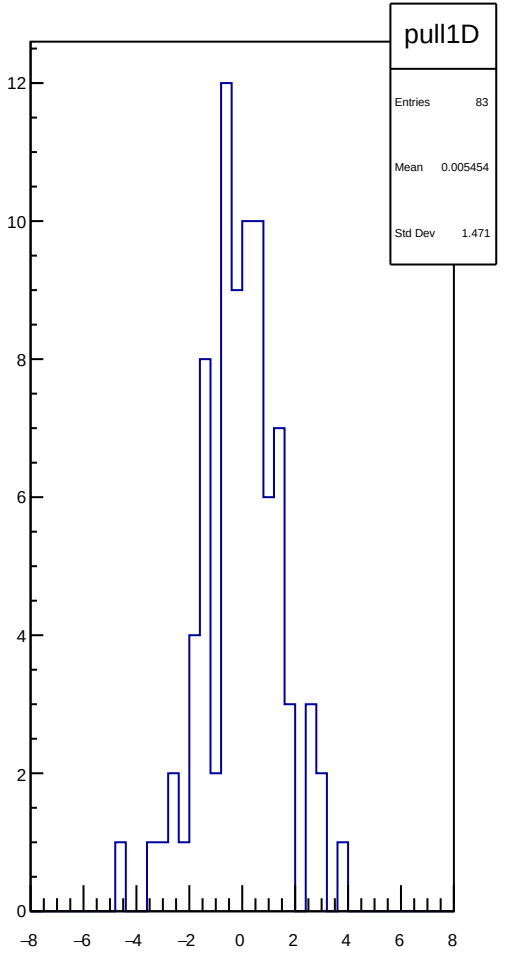

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.21 / 82
p0 49.39 ± 2.142
pull
Entries 83
Mean 122.7
Std Dev 0

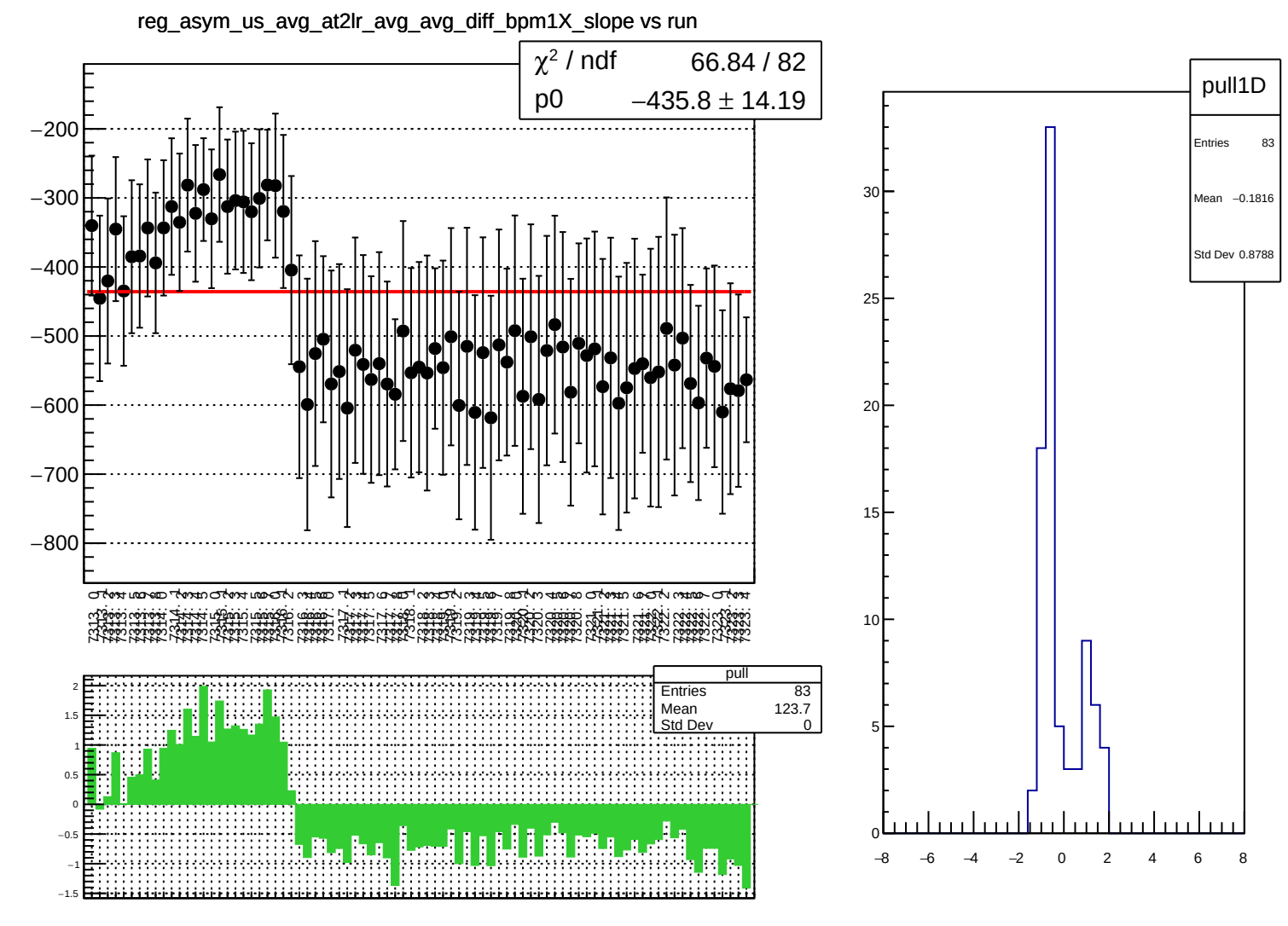

pull1D
Entries 83
Mean 0.1103
Std Dev 0.8931

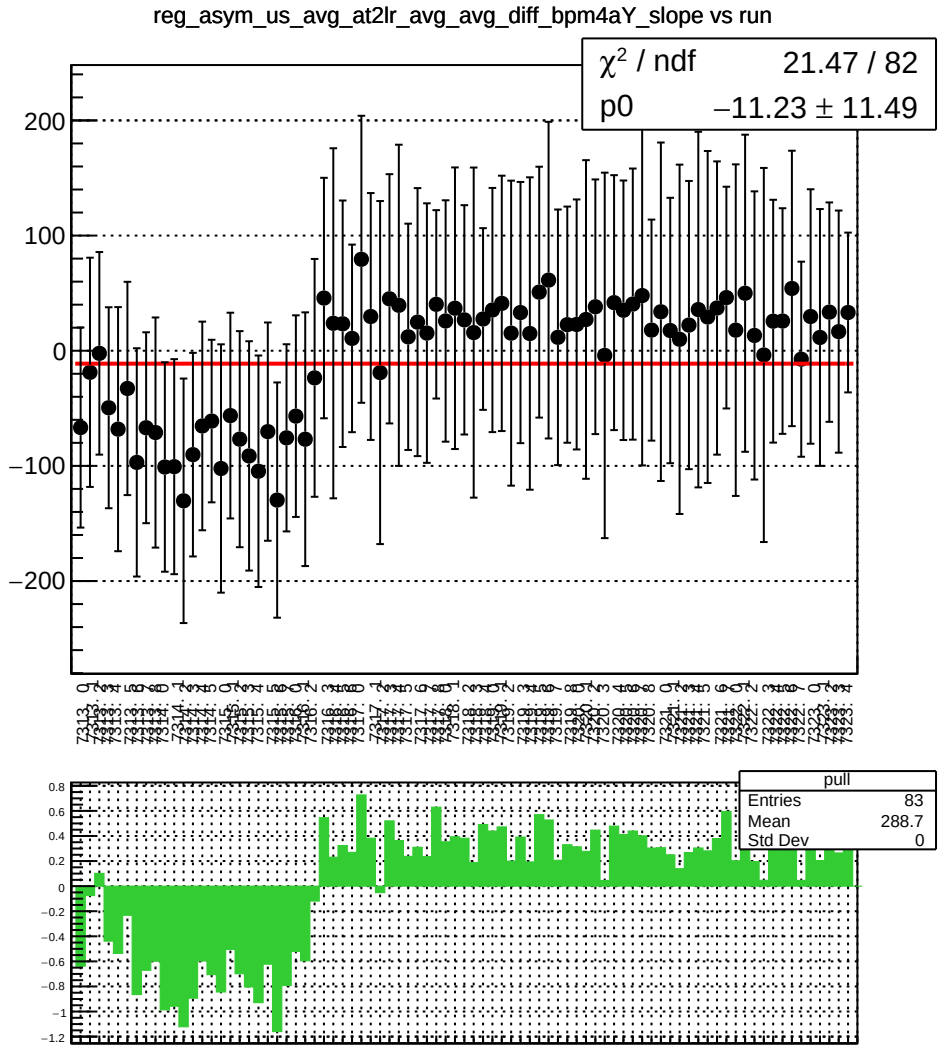

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.23 / 82
p0 33.22 ± 1.888
pull
Entries 83
Mean 201
Std Dev 0

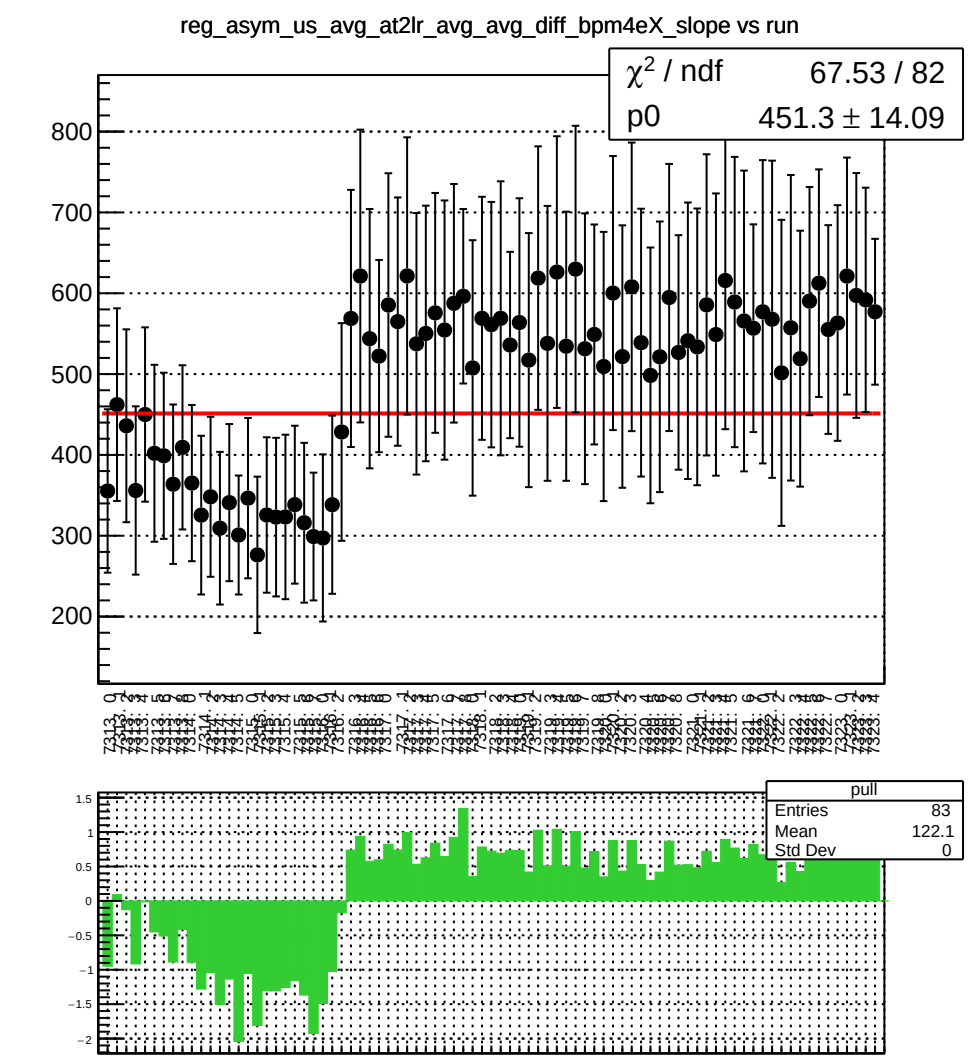

pull1D
Entries 83
Mean −0.0235
Std Dev 0.808

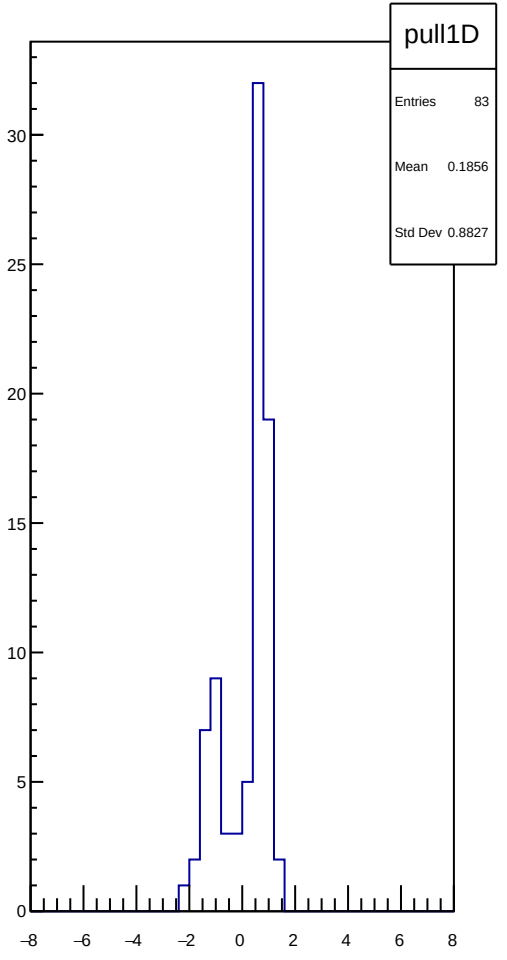

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 179.5 / 82
p0 −23.17 ± 0.07823
pull
Entries 83
Mean −3335
Std Dev 0

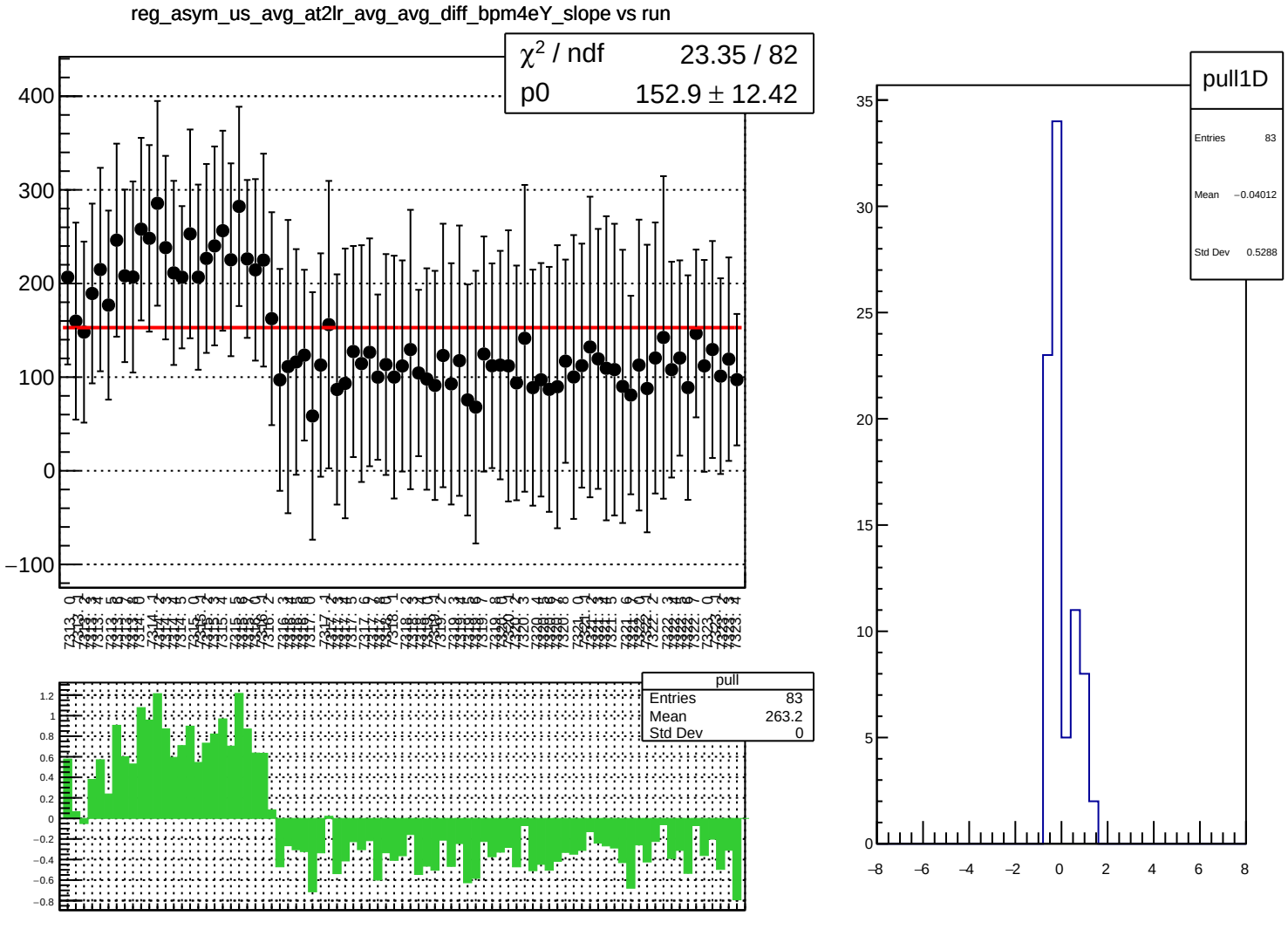

pull1D
Entries 83
Mean 0.005454
Std Dev 1.471

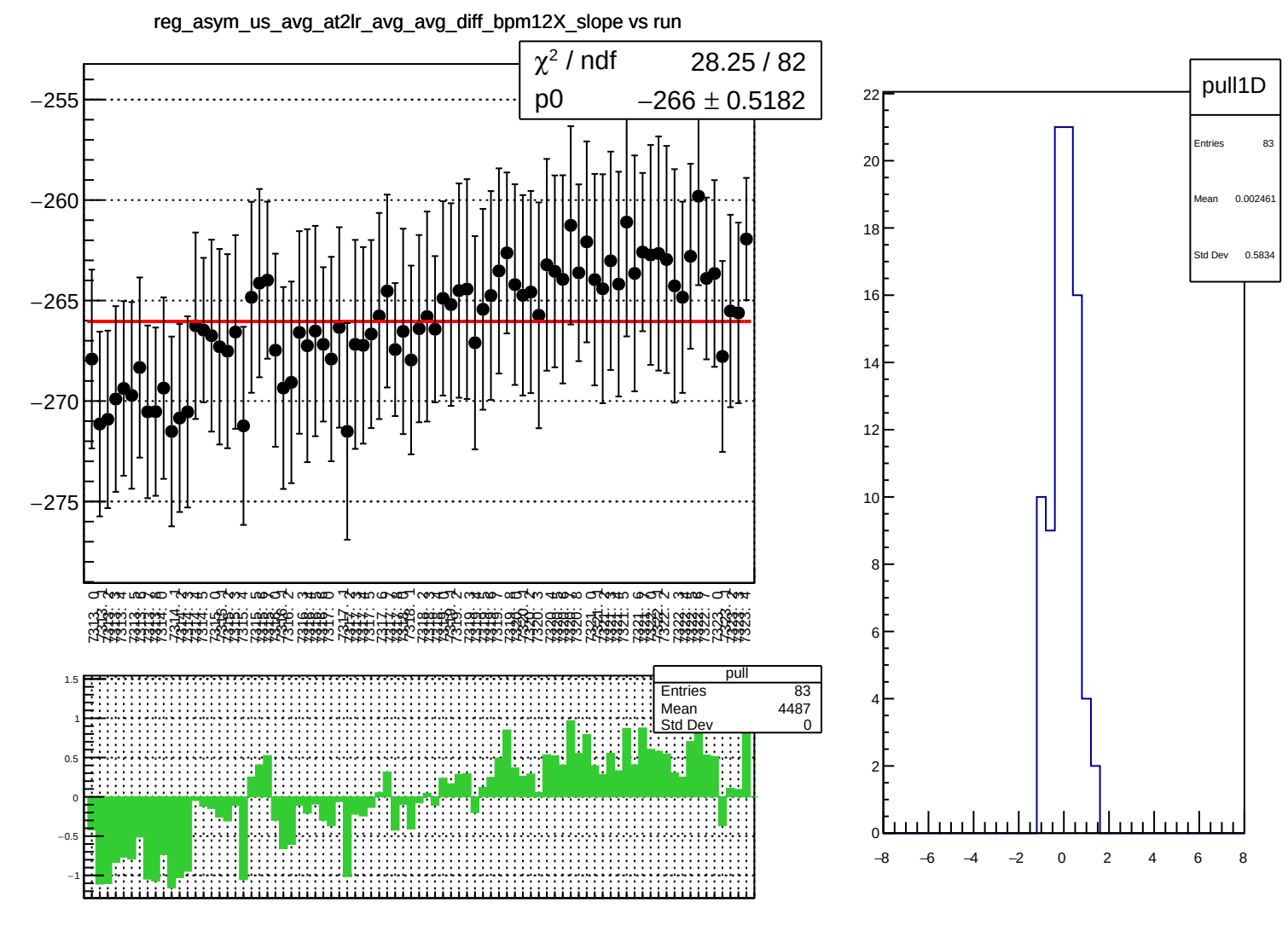

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 66.84 / 82
p0 −435.8 ± 14.19
pull
Entries 83
Mean 123.7
Std Dev 0
pull1D
Entries 83
Mean −0.1816
Std Dev 0.8788

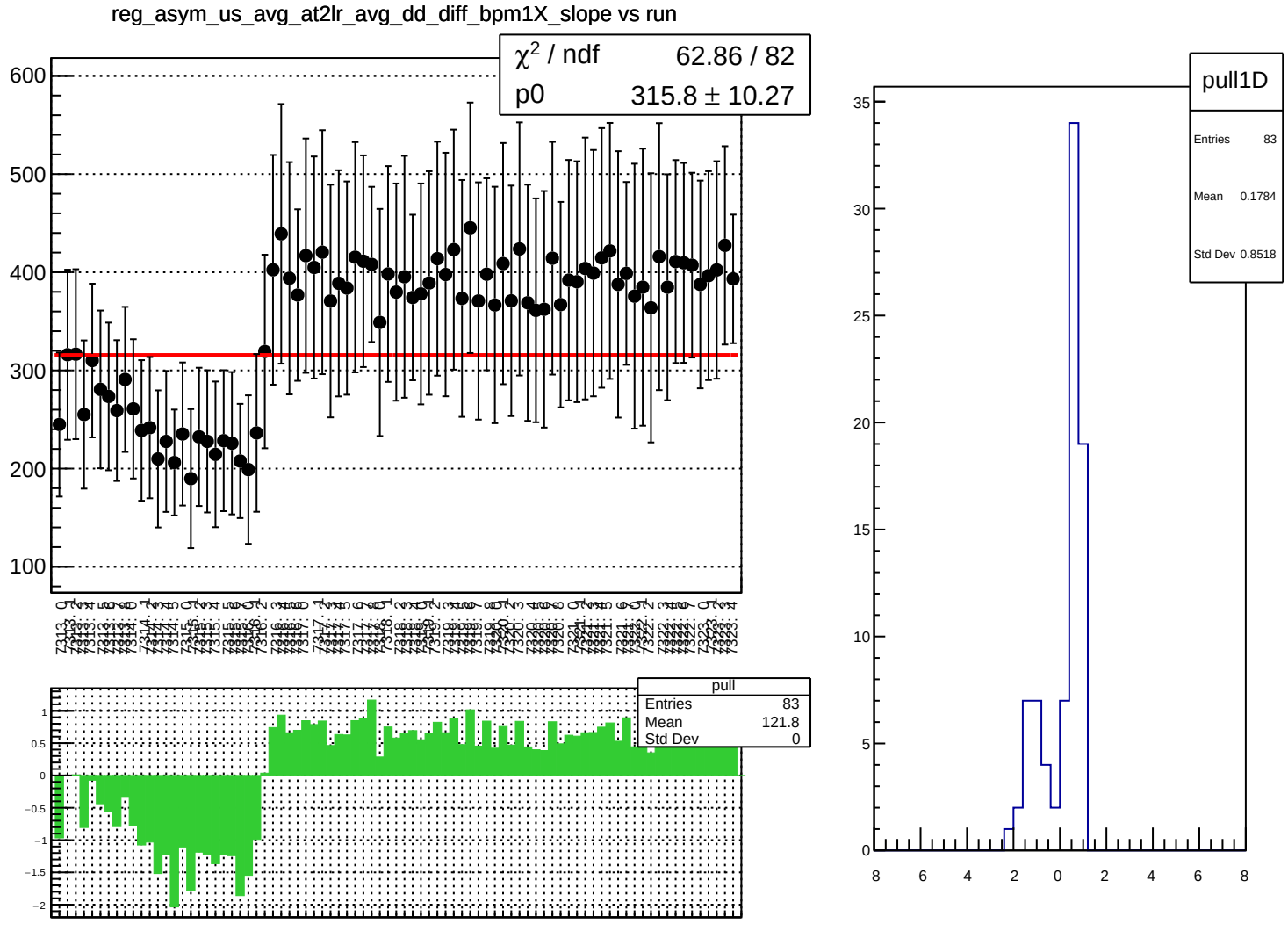

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.47 / 82
p0 −11.23 ± 11.49
pull
Entries 83
Mean 288.7
Std Dev 0
pull1D
Entries 83
Mean 0.03438
Std Dev 0.5074

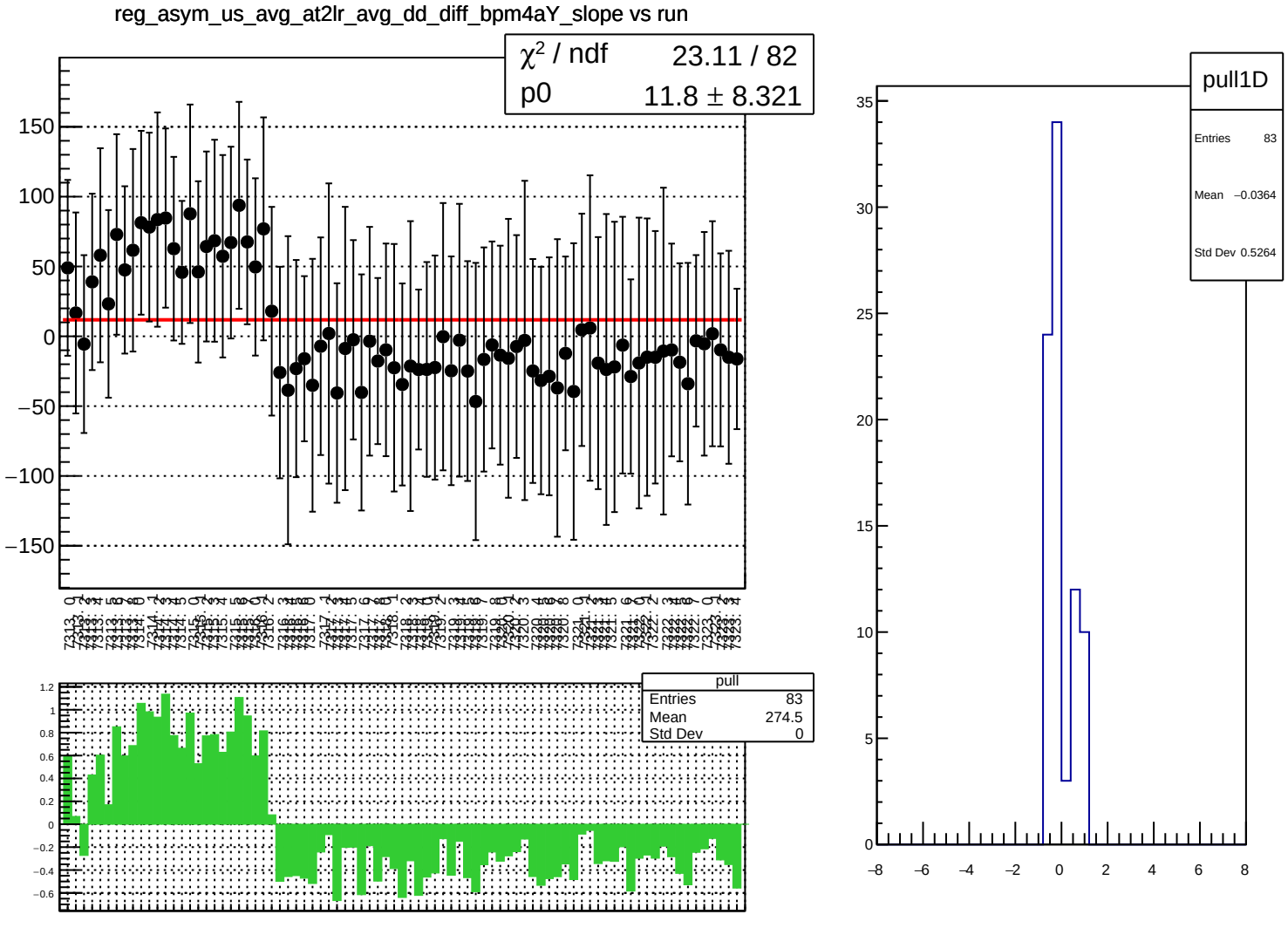

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.53 / 82
p0 451.3 ± 14.09
800
700
600
500
400
300
200
pull
Entries 83
Mean 122.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

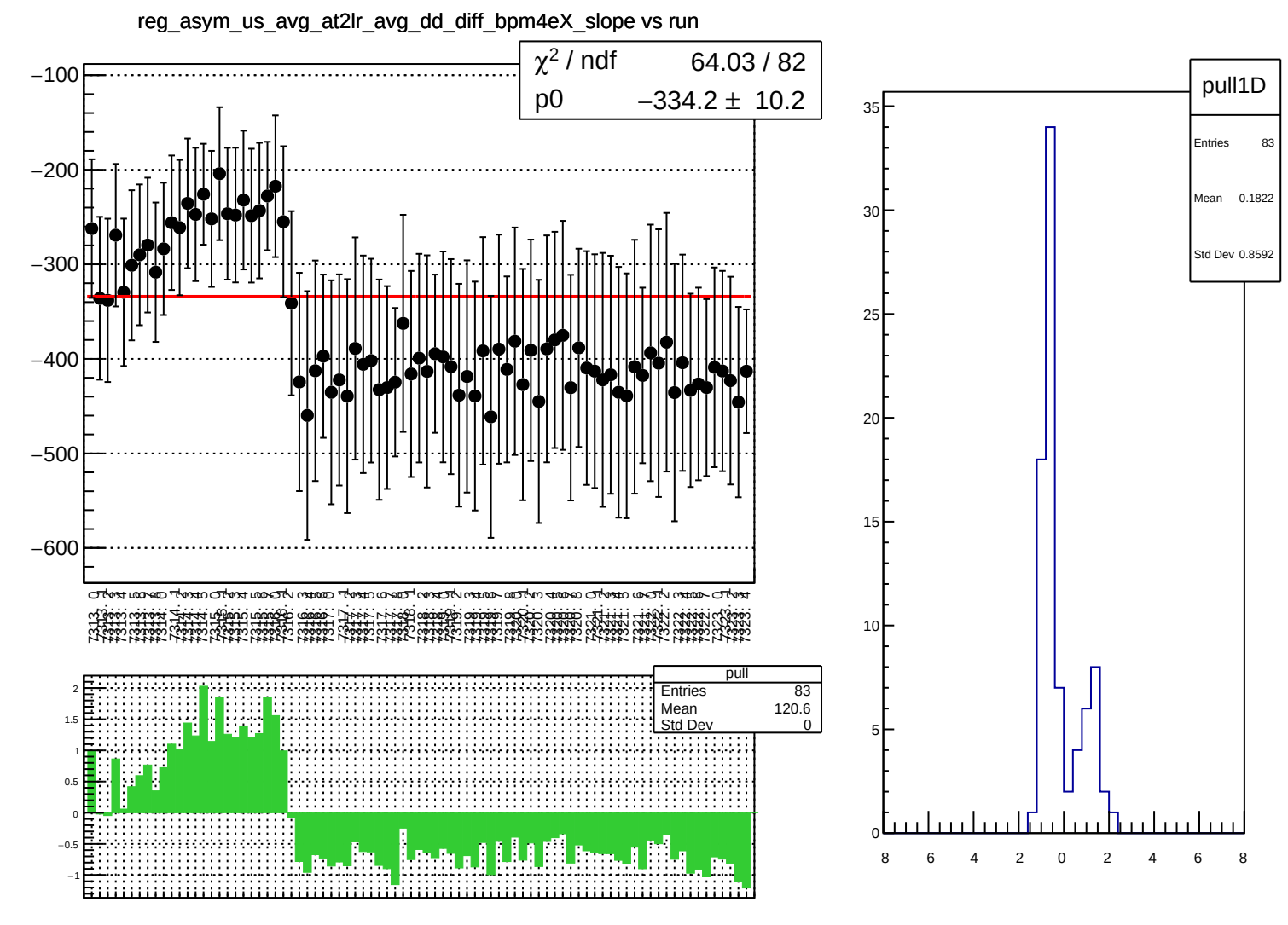

pull1D
Entries 83
Mean 0.1856
Std Dev 0.8827
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

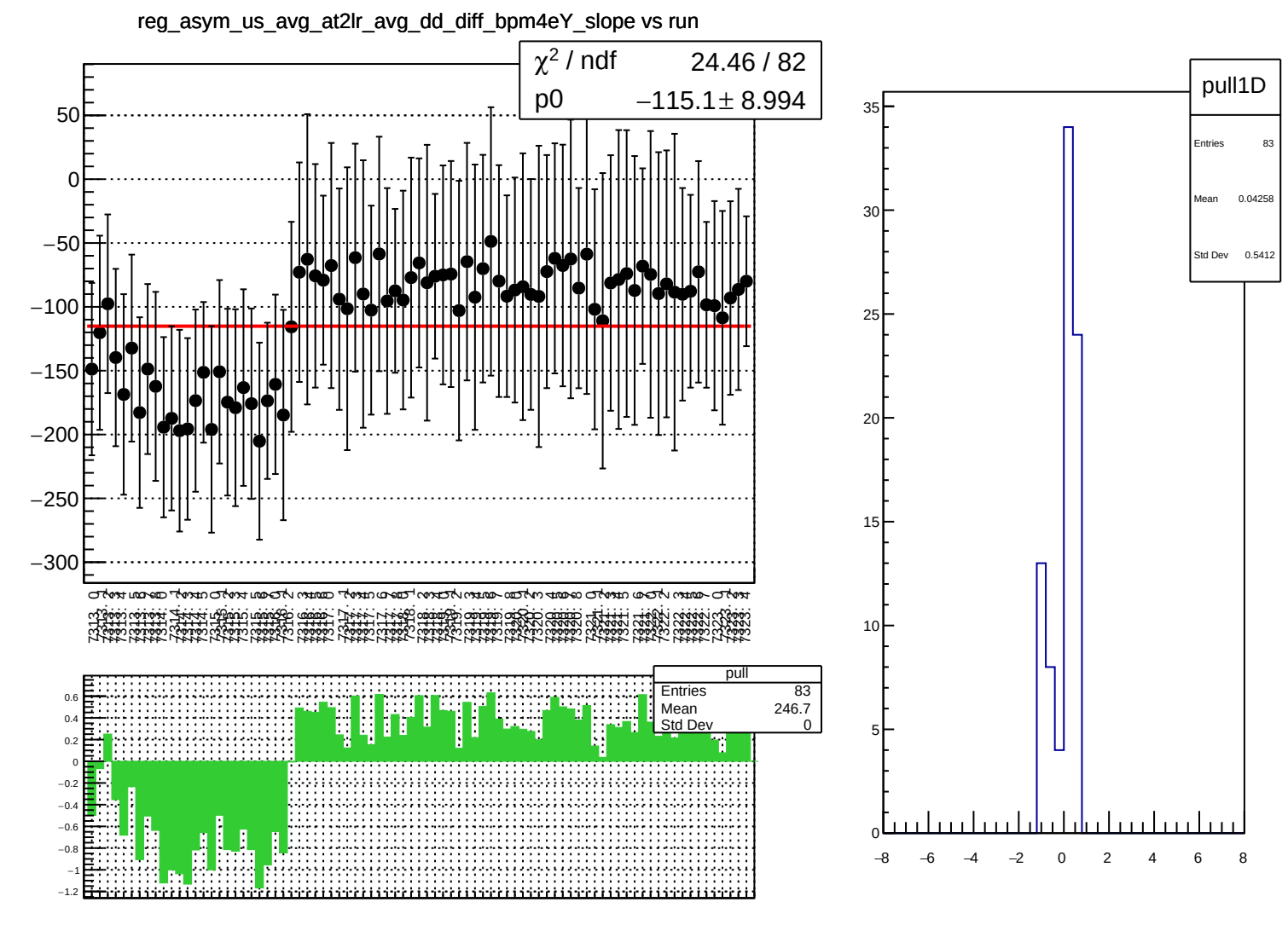

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.35 / 82
p0 152.9 ± 12.42
pull
Entries 83
Mean 263.2
Std Dev 0
pull1D
Entries 83
Mean −0.04012
Std Dev 0.5288

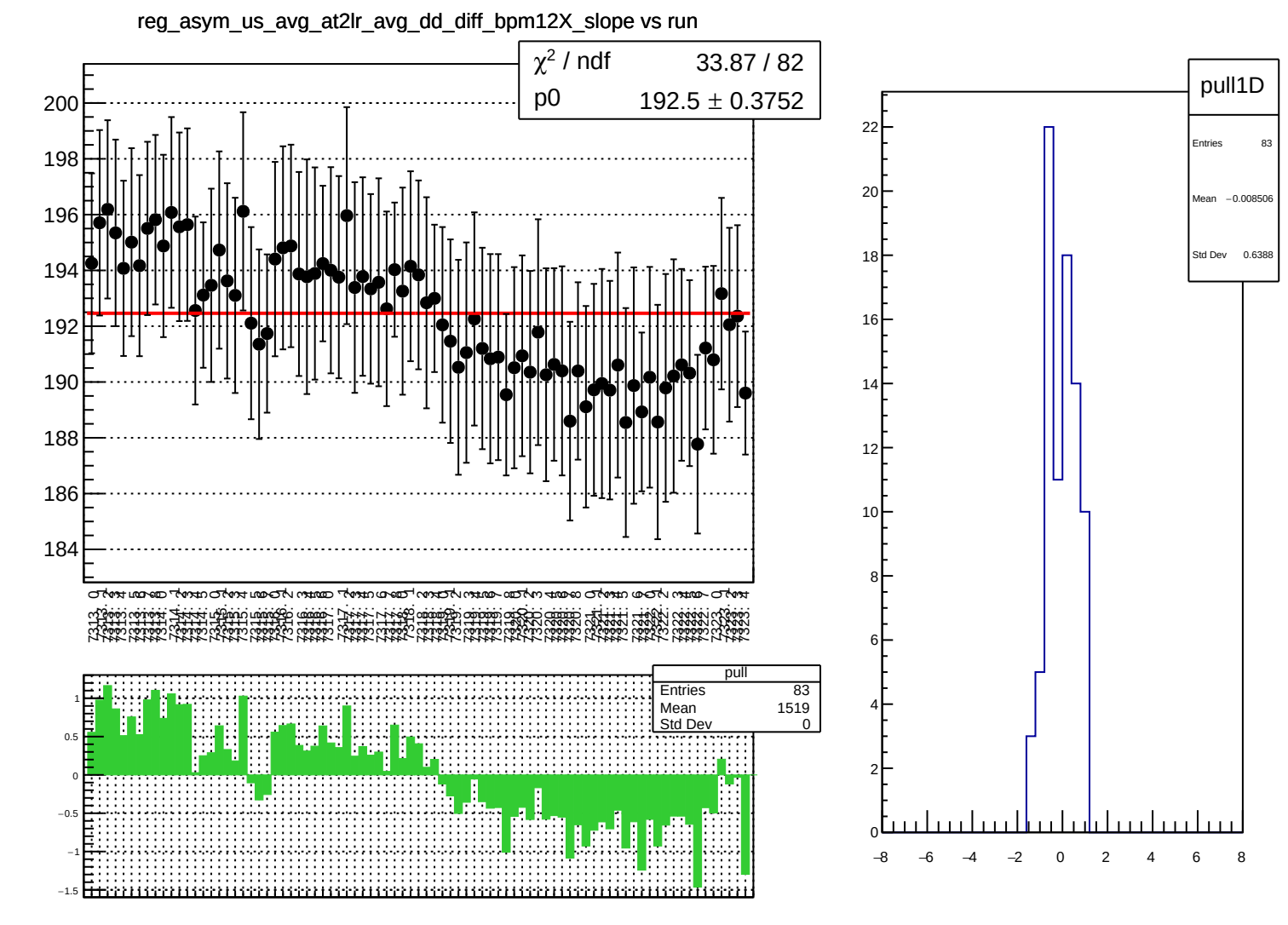

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 28.25 / 82
p0 −266 ± 0.5182
−255
−260
−265
−270
−275
pull
Entries 83
Mean 4487
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean 0.002461
Std Dev 0.5834
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

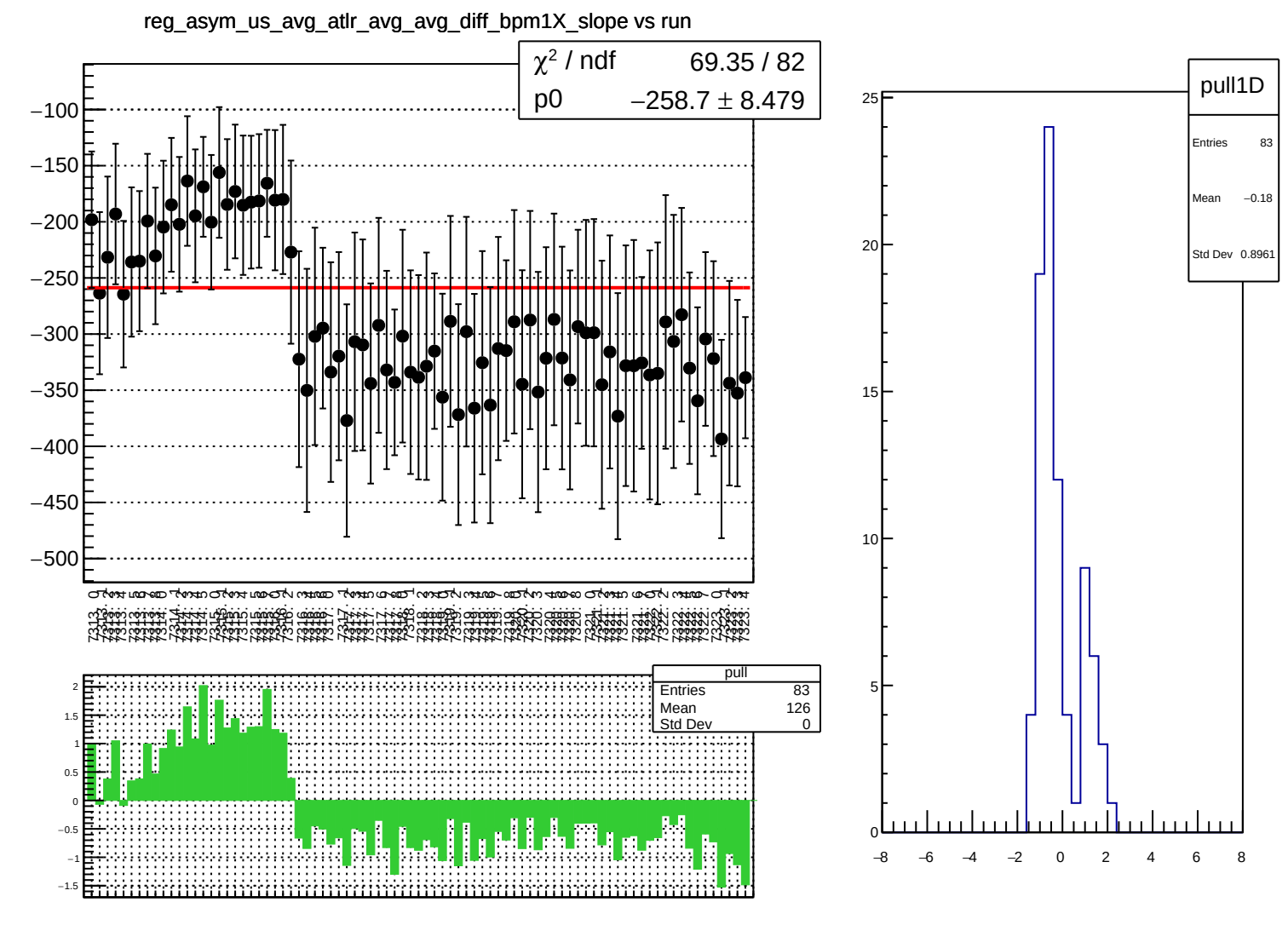

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 62.86 / 82
p0 315.8 ± 10.27
pull
Entries 83
Mean 121.8
Std Dev 0
pull1D
Entries 83
Mean 0.1784
Std Dev 0.8518

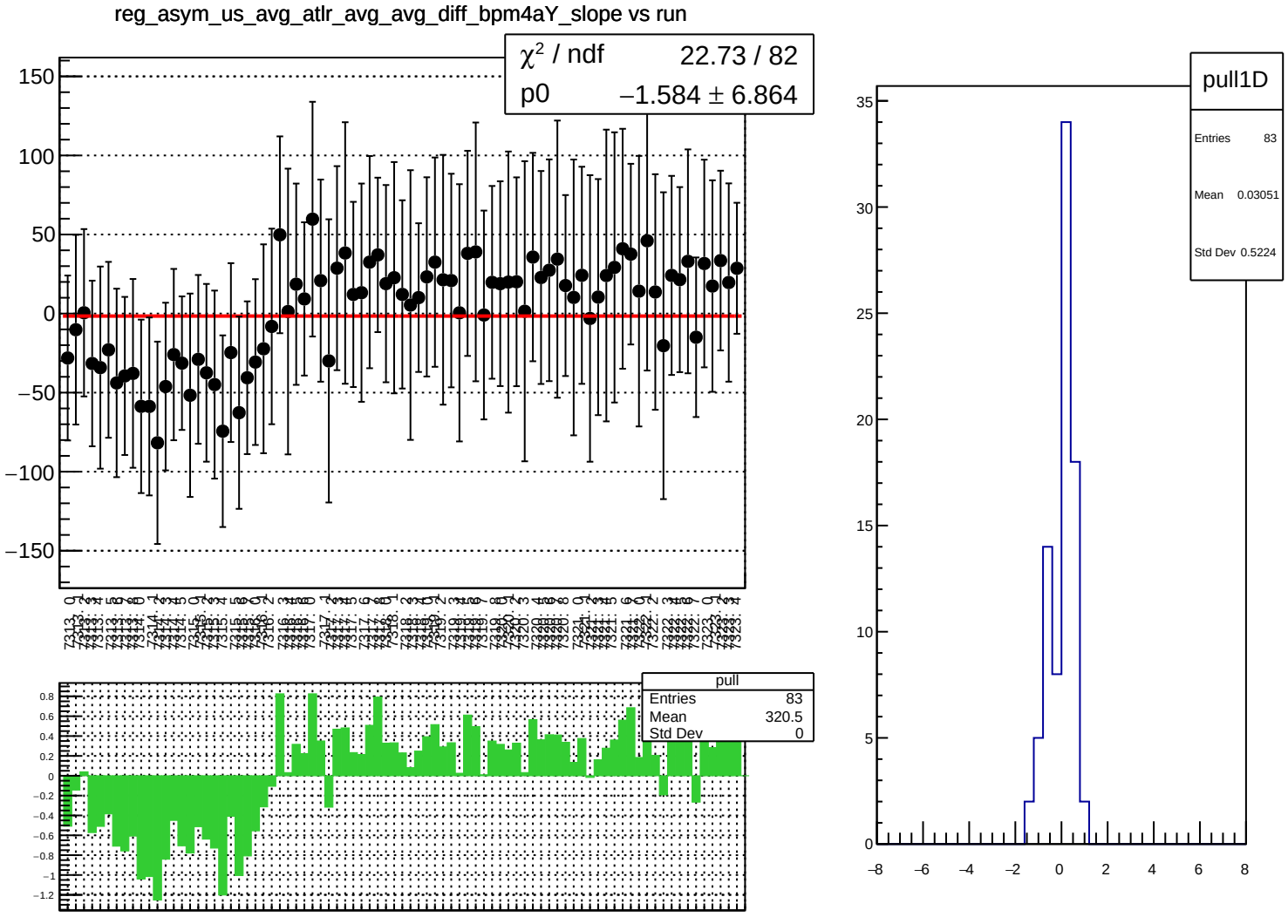

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.11 / 82
p0 11.8 ± 8.321
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean 274.5
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 83
Mean −0.0364
Std Dev 0.5264
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

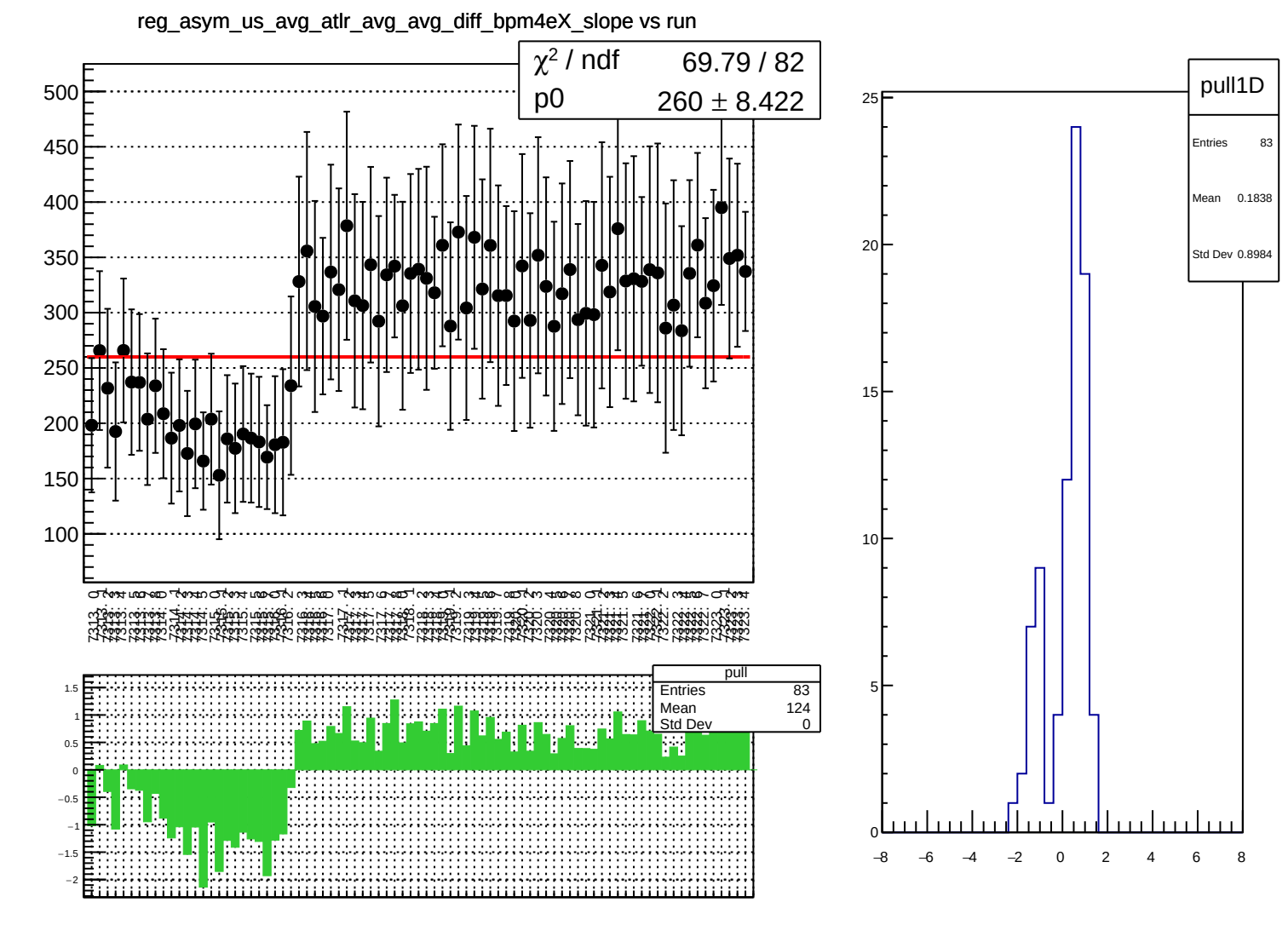

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.03 / 82
p0 −334.2 ± 10.2
−100
−200
−300
−400
−500
−600
pull
Entries 83
Mean 120.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean −0.1822
Std Dev 0.8592
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

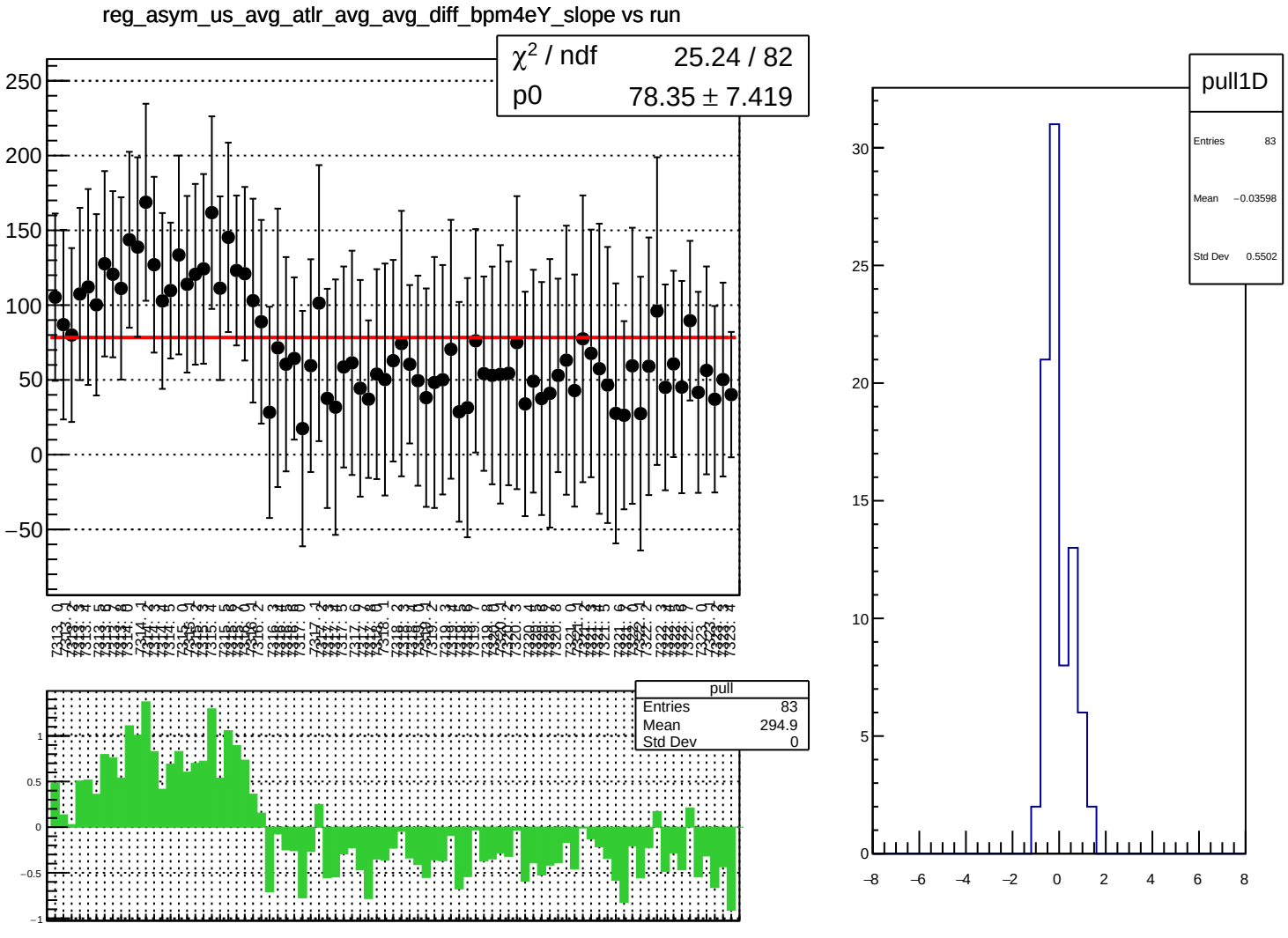

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.46 / 82
p0 −115.1 ± 8.994
pull
Entries 83
Mean 246.7
Std Dev 0
pull1D
Entries 83
Mean 0.04258
Std Dev 0.5412

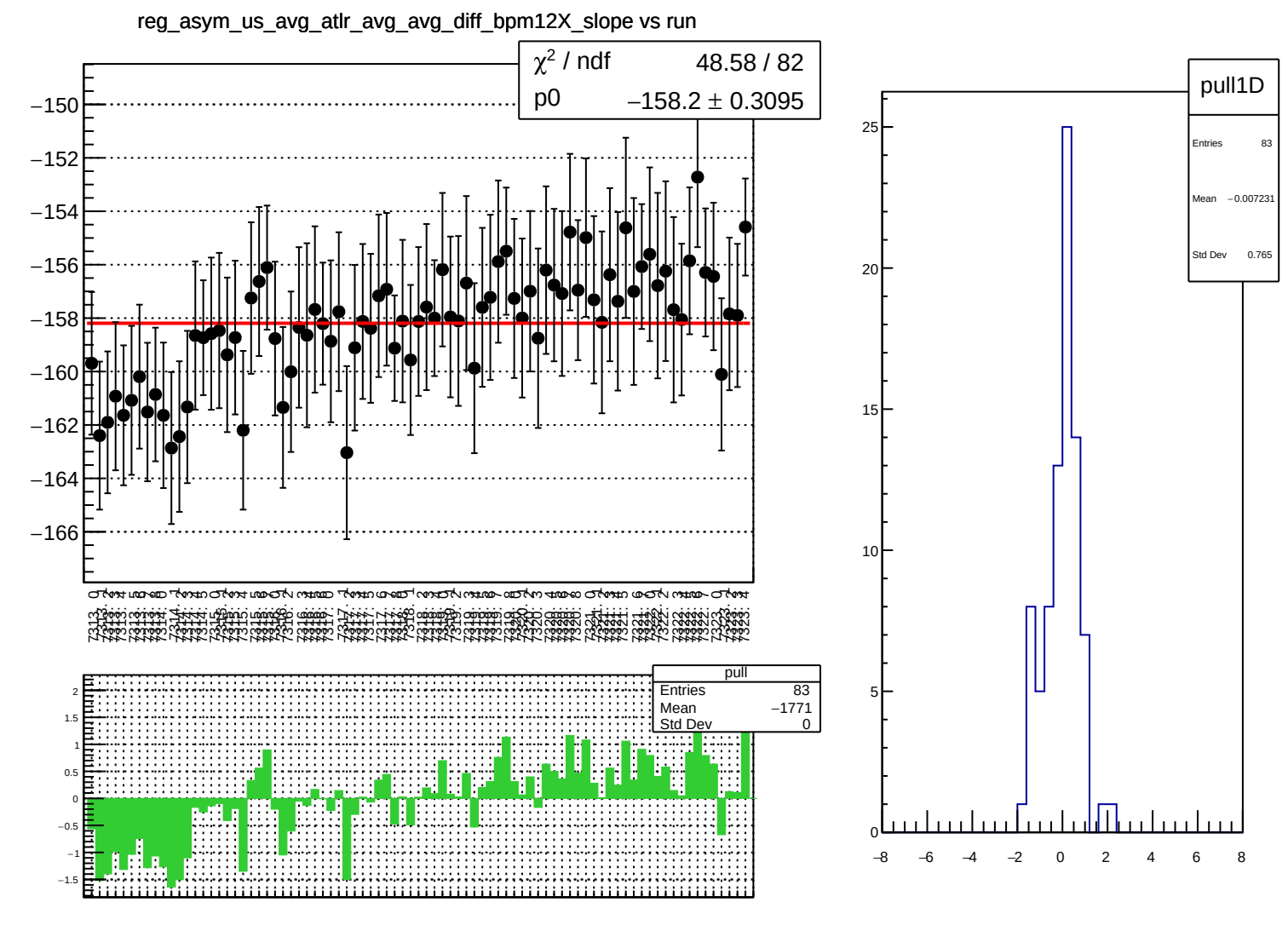

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 33.87 / 82
p0 192.5 ± 0.3752
pull
Entries 83
Mean 1519
Std Dev 0
pull1D
Entries 83
Mean −0.008506
Std Dev 0.6388

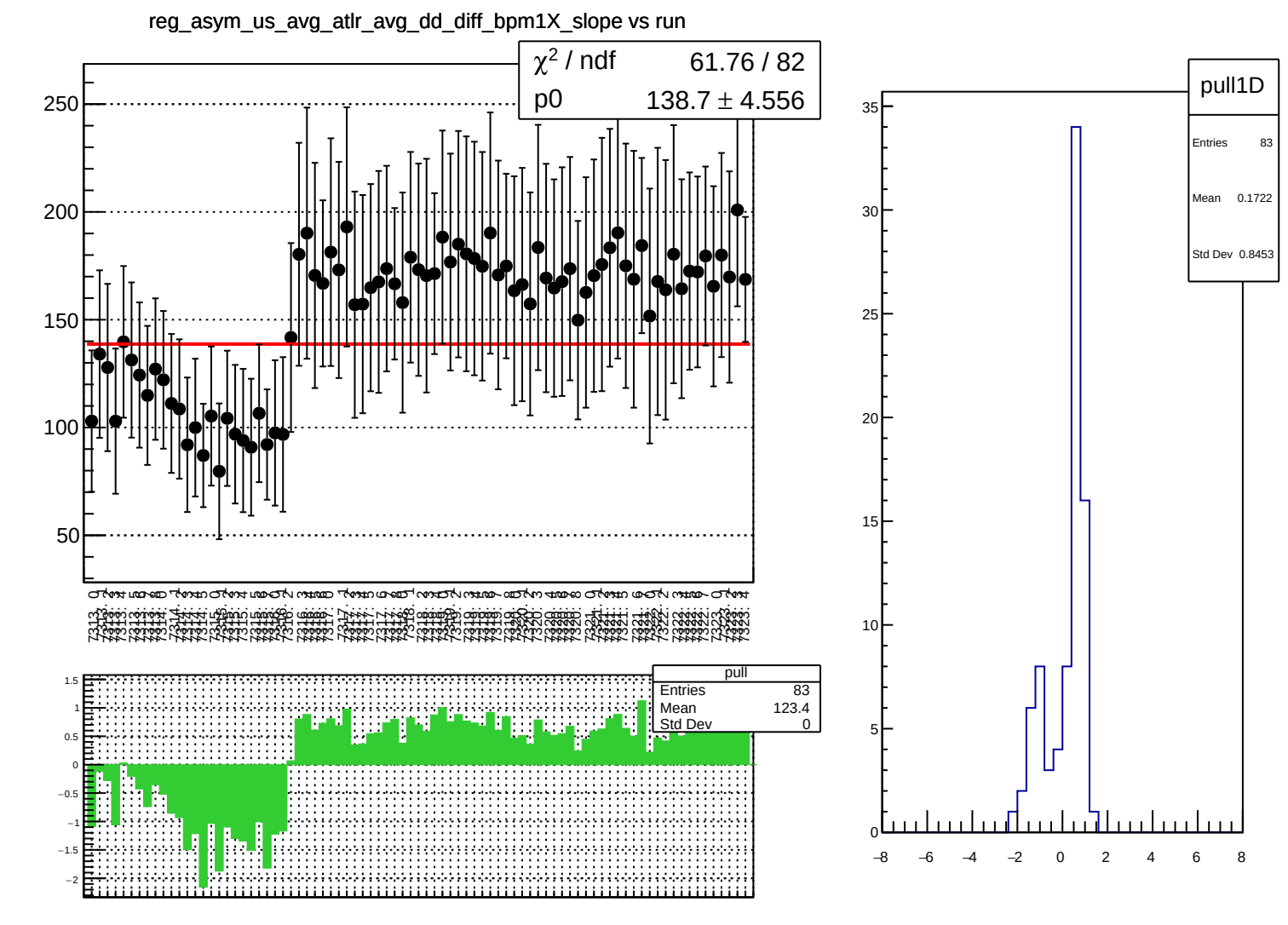

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 69.35 / 82
p0 −258.7 ± 8.479
pull
Entries 83
Mean 126
Std Dev 0
pull1D
Entries 83
Mean −0.18
Std Dev 0.8961

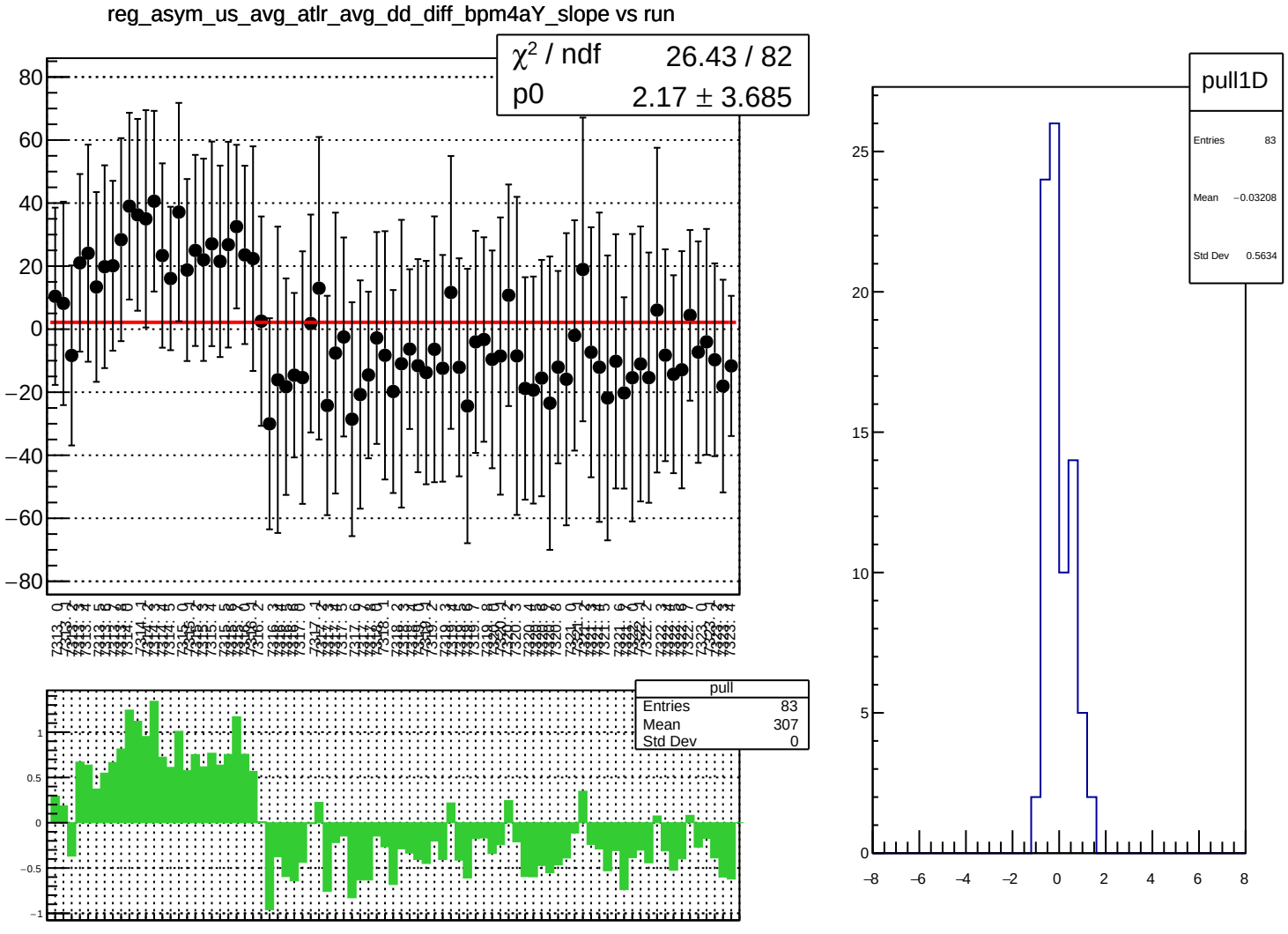

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.73 / 82
p0 −1.584 ± 6.864
pull
Entries 83
Mean 320.5
Std Dev 0
pull1D
Entries 83
Mean 0.03051
Std Dev 0.5224

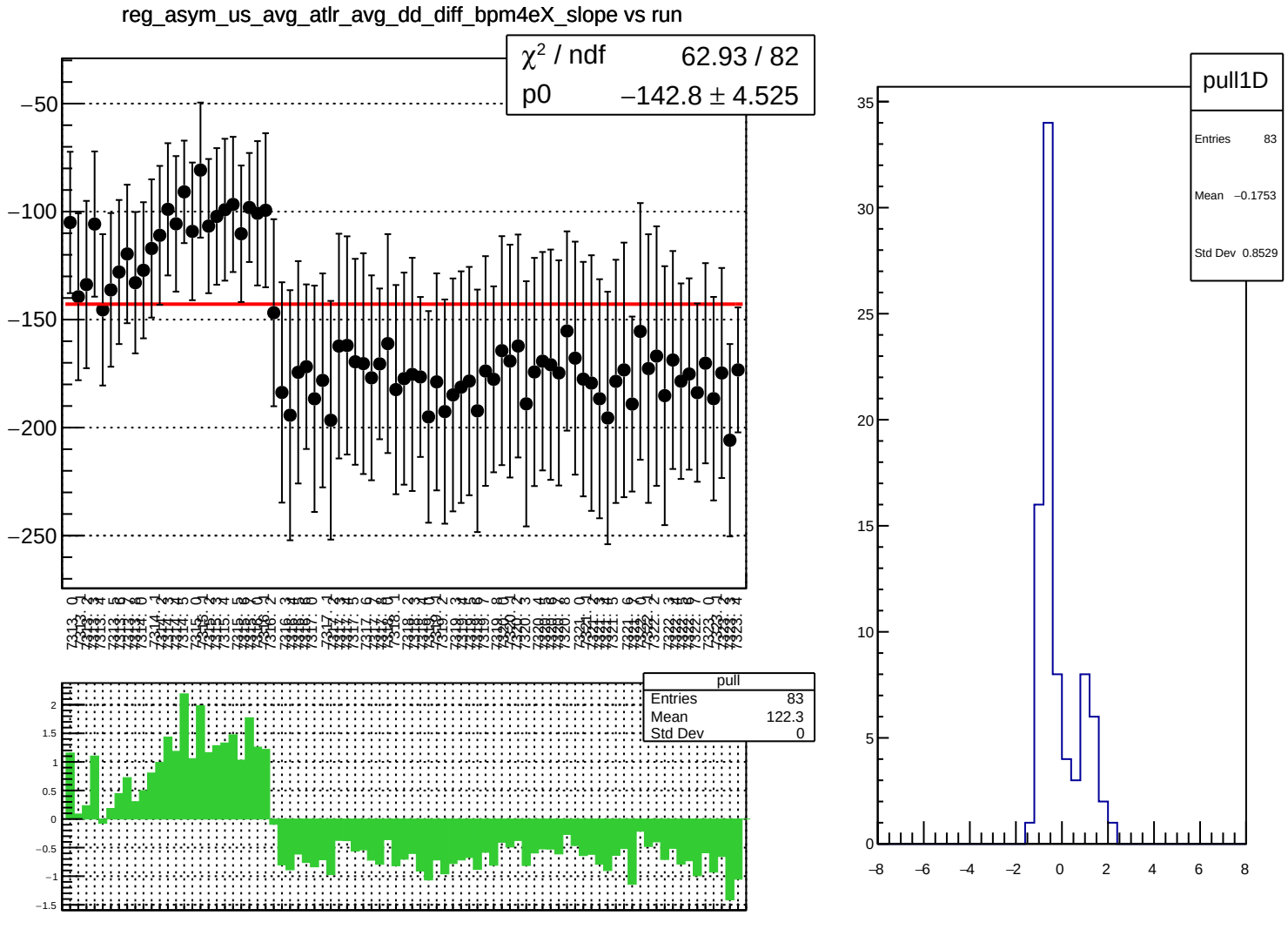

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.79 / 82
p0 260 ± 8.422
pull
Entries 83
Mean 124
Std Dev 0
pull1D
Entries 83
Mean 0.1838
Std Dev 0.8984

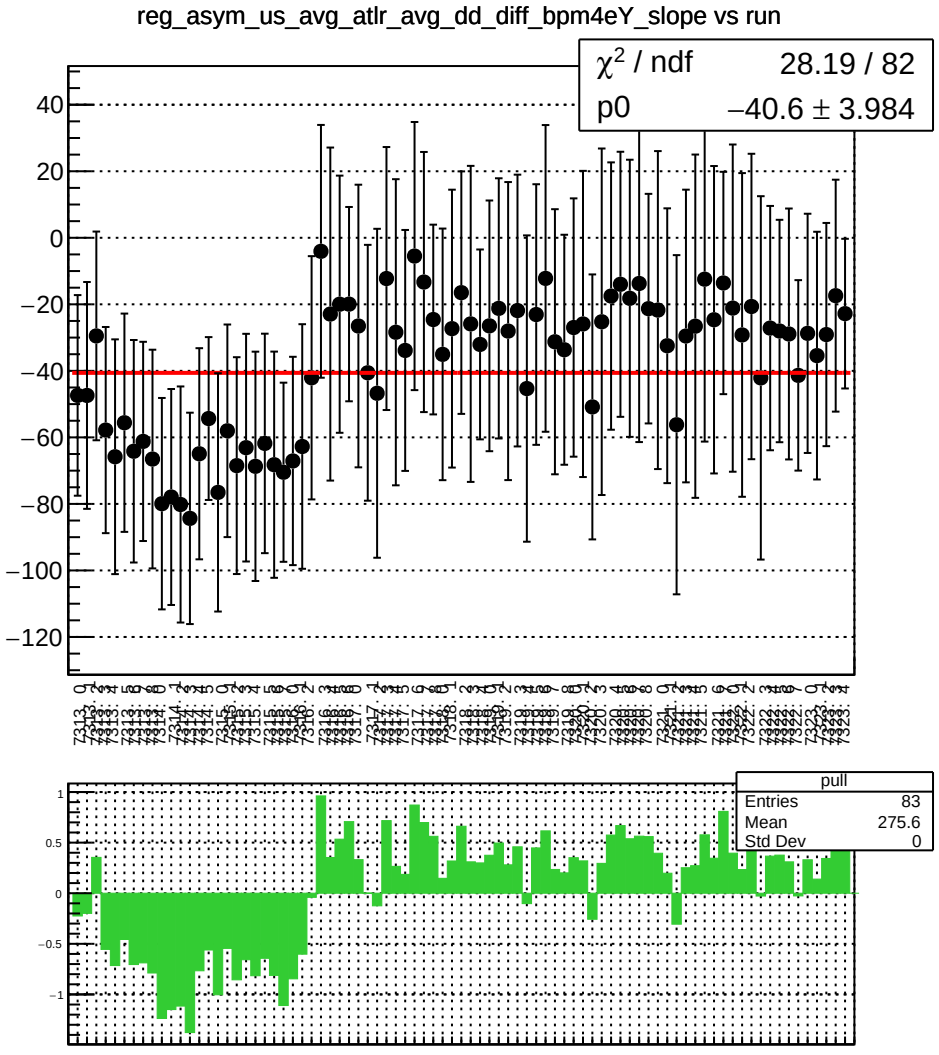

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.24 / 82
p0 78.35 ± 7.419
250
200
150
100
50
0
−50
pull
Entries 83
Mean 294.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean −0.03598
Std Dev 0.5502
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

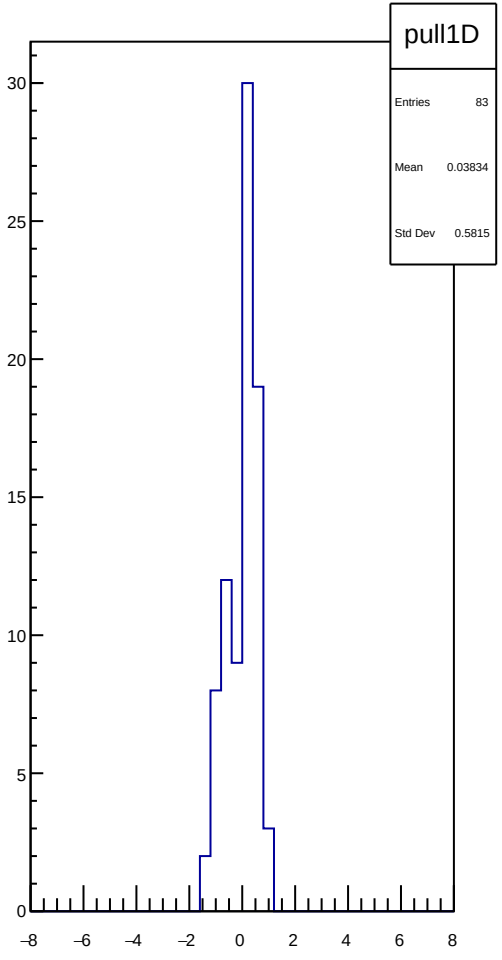

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 48.58 / 82
p0 −158.2 ± 0.3095
pull
Entries 83
Mean −1771
Std Dev 0
pull1D
Entries 83
Mean −0.007231
Std Dev 0.765

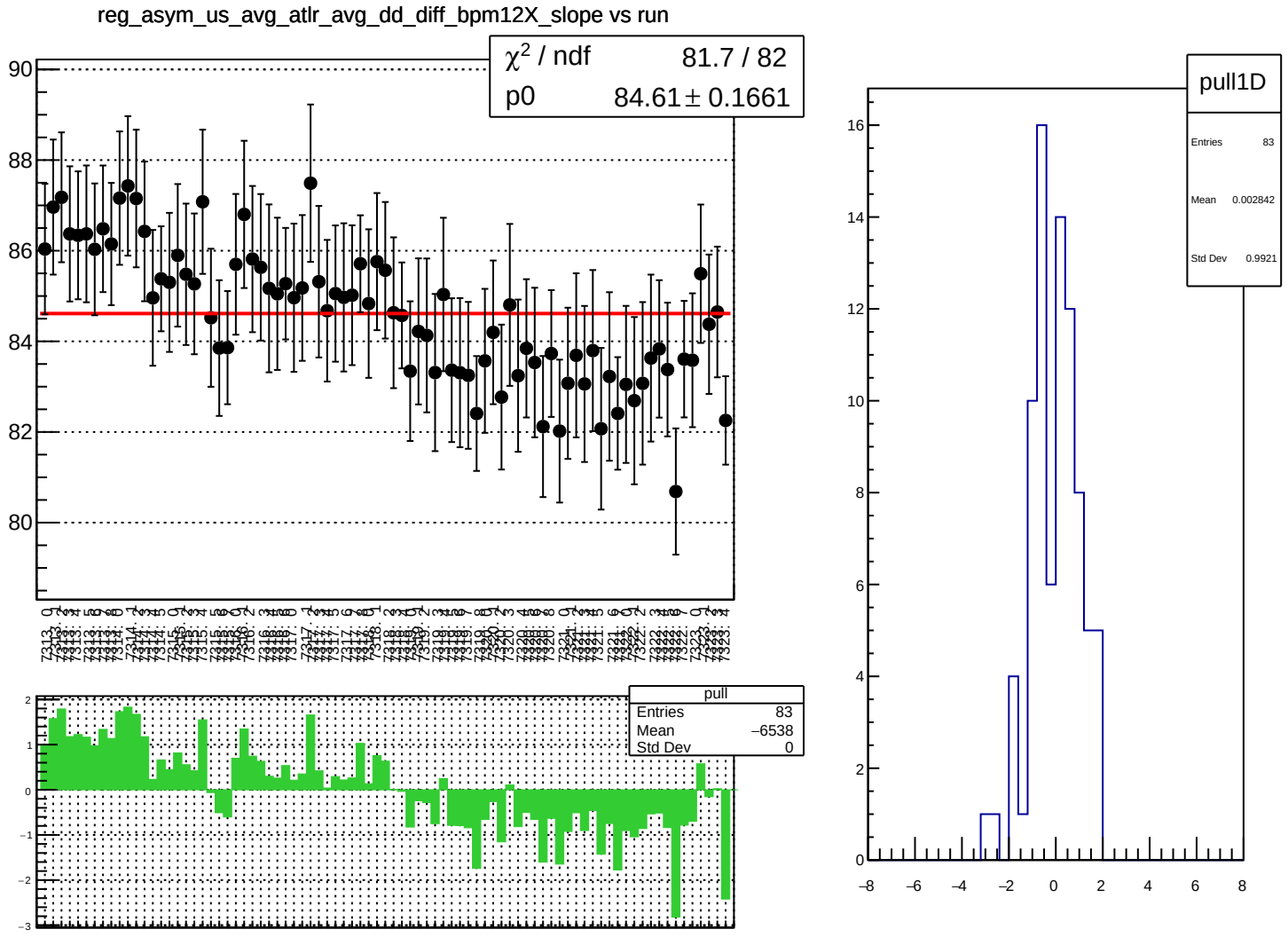

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 61.76 / 82
p0 138.7 ± 4.556
pull
Entries 83
Mean 123.4
Std Dev 0
pull1D
Entries 83
Mean 0.1722
Std Dev 0.8453

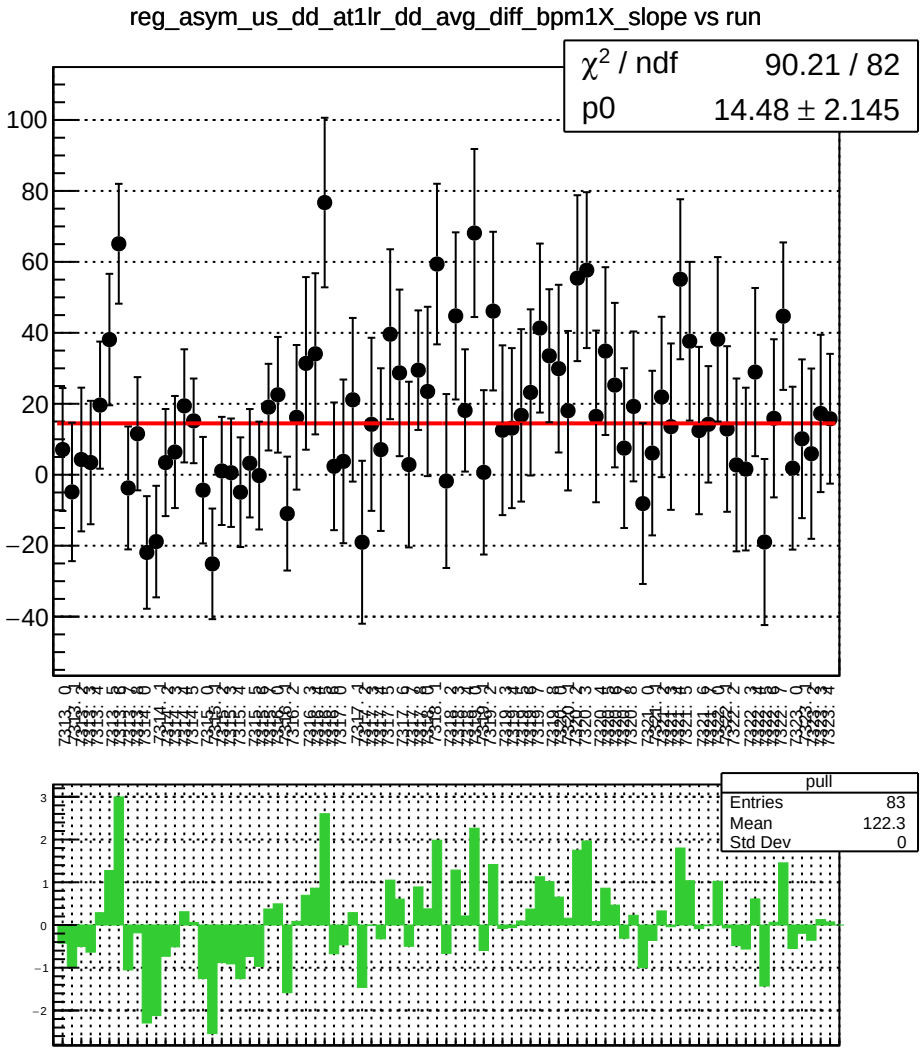

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.43 / 82
p0 2.17 ± 3.685
pull
Entries 83
Mean 307
Std Dev 0
pull1D
Entries 83
Mean −0.03208
Std Dev 0.5634

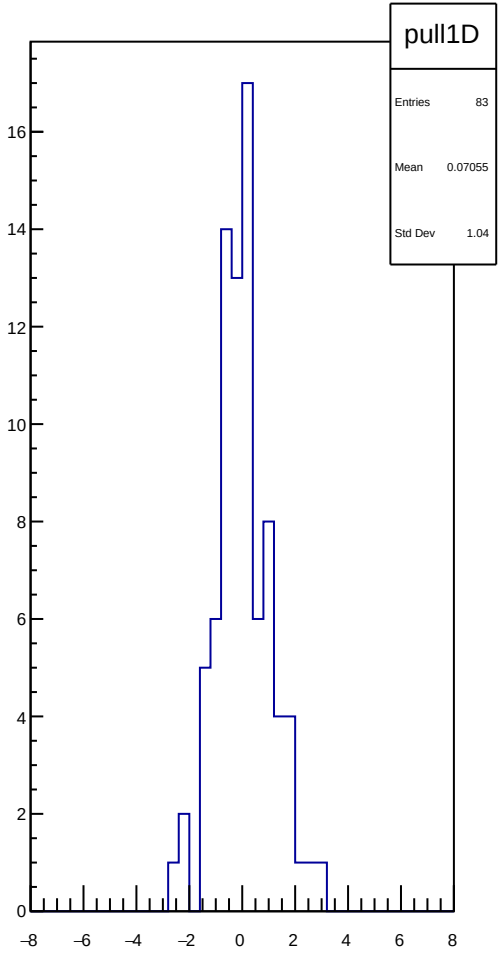

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.93 / 82
p0 −142.8 ± 4.525
pull
Entries 83
Mean 122.3
Std Dev 0
pull1D
Entries 83
Mean −0.1753
Std Dev 0.8529

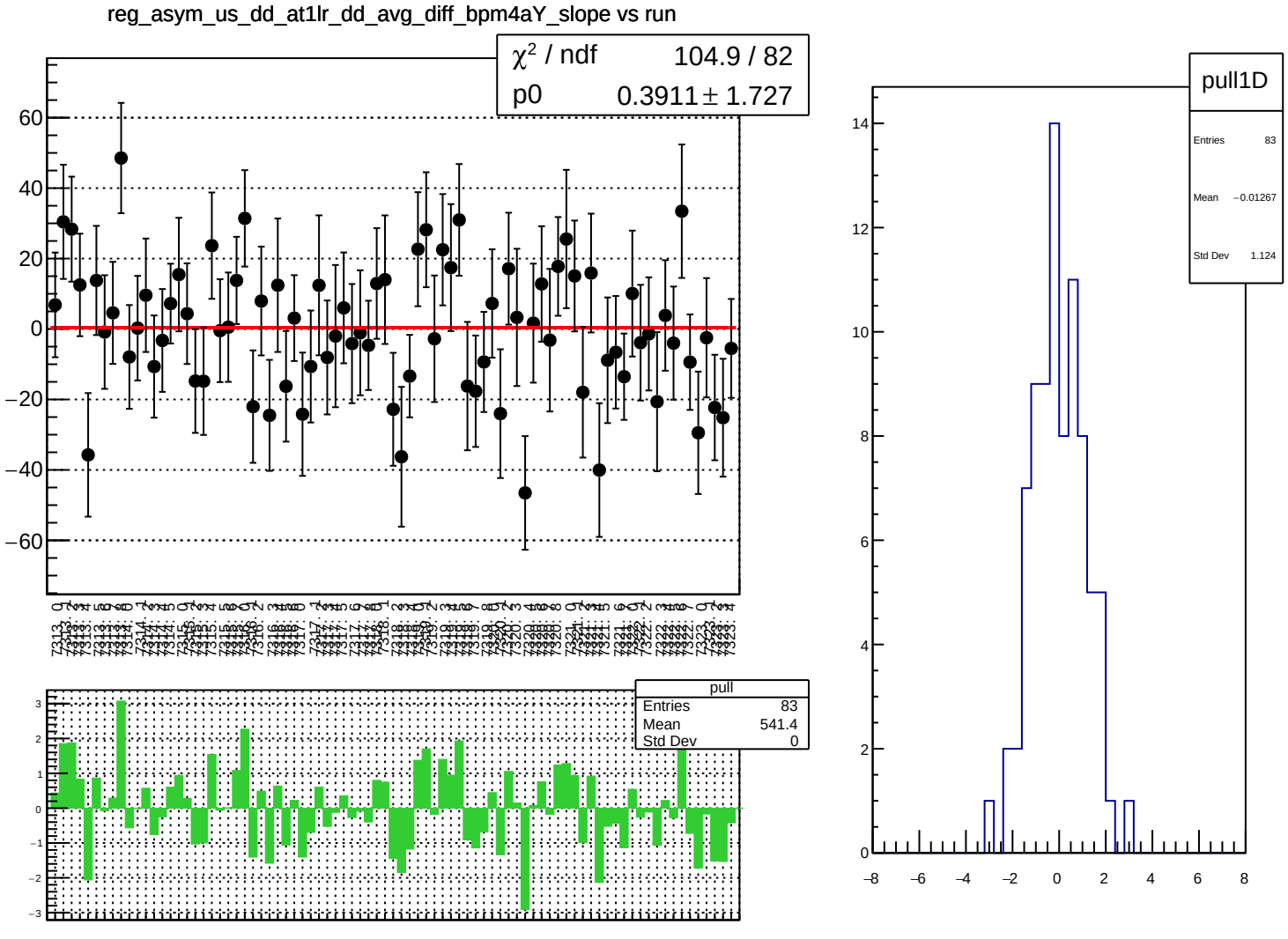

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.19 / 82
p0 −40.6 ± 3.984
pull
Entries 83
Mean 275.6
Std Dev 0

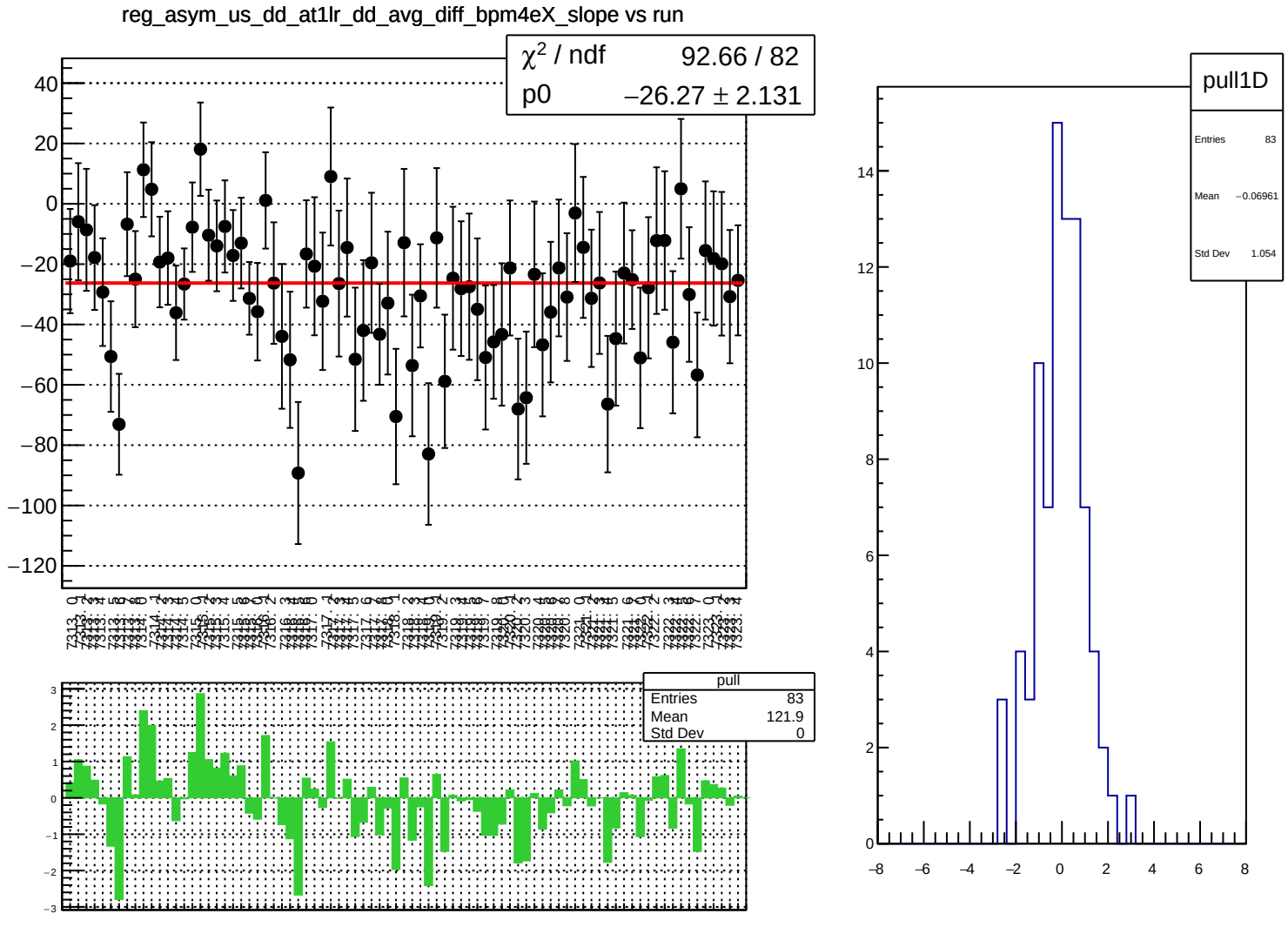

pull1D
Entries 83
Mean 0.03834
Std Dev 0.5815

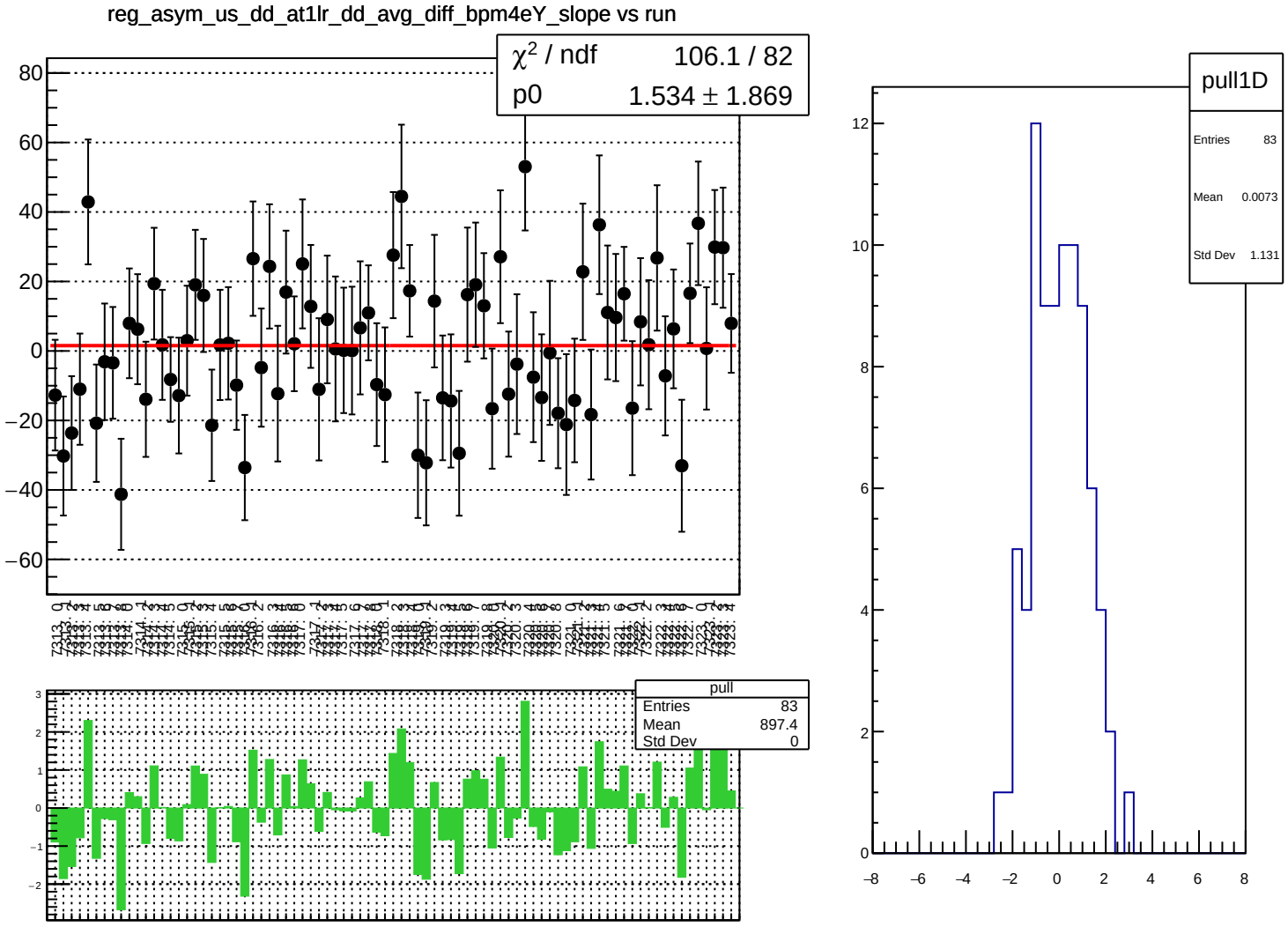

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 81.7 / 82
p0 84.61 ± 0.1661
pull
Entries 83
Mean −6538
Std Dev 0
pull1D
Entries 83
Mean 0.002842
Std Dev 0.9921

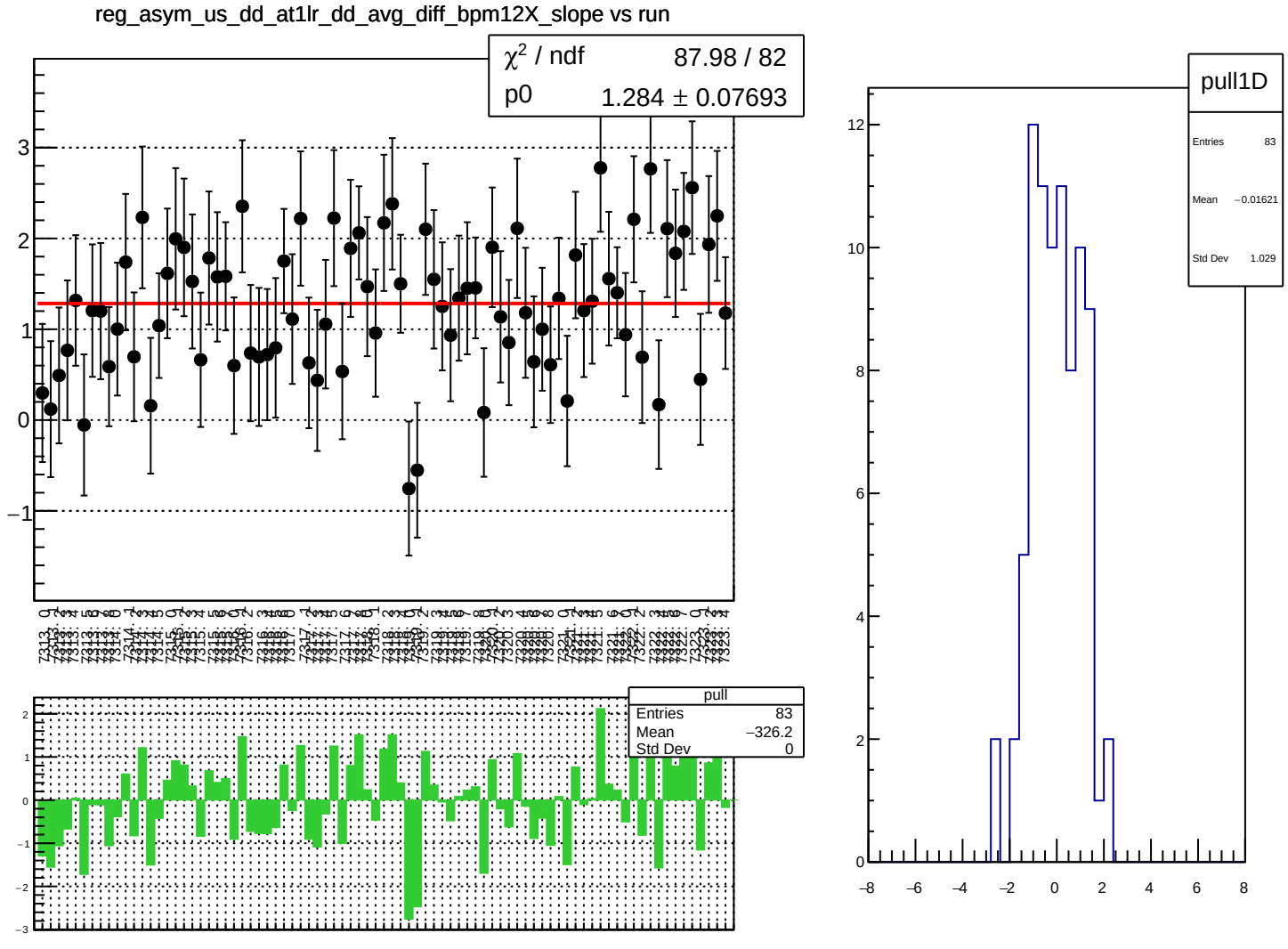

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 90.21 / 82
p0 14.48 ± 2.145
pull
Entries 83
Mean 122.3
Std Dev 0

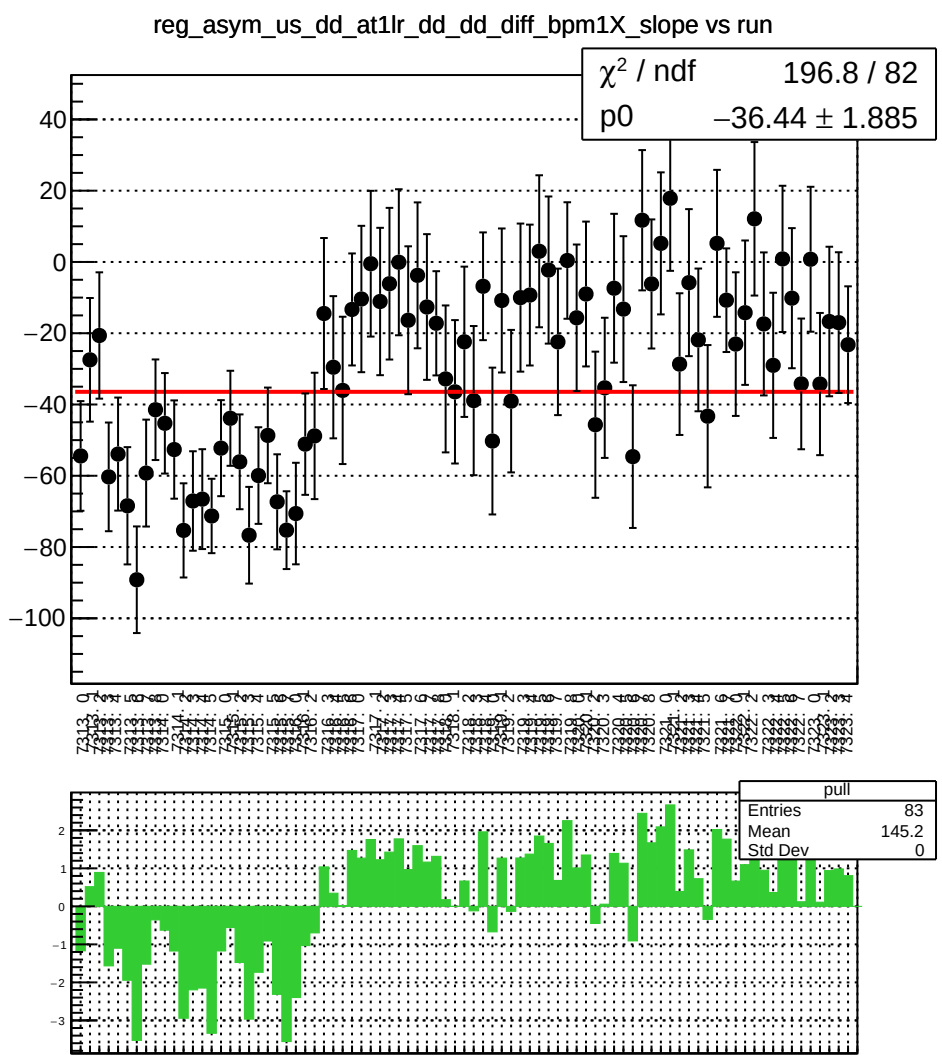

pull1D
Entries 83
Mean 0.07055
Std Dev 1.04

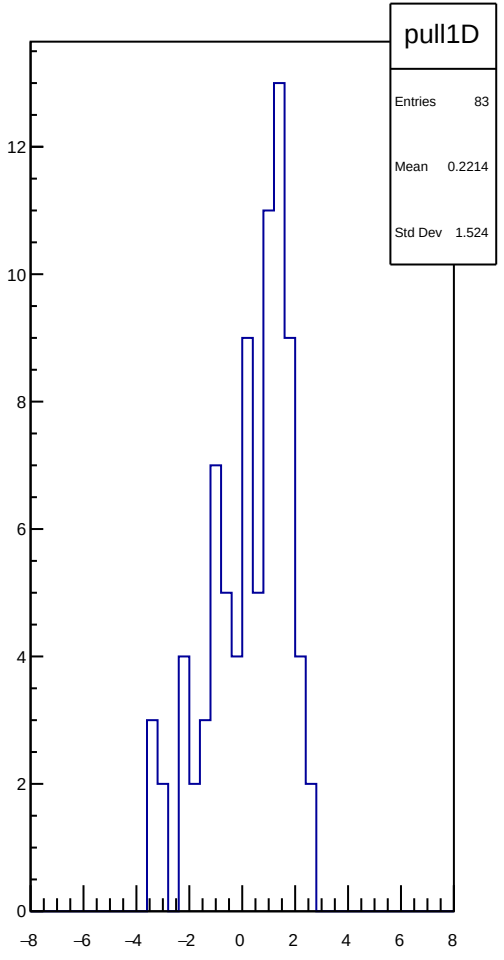

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 82
p0 0.3911 ± 1.727
pull
Entries 83
Mean 541.4
Std Dev 0
pull1D
Entries 83
Mean −0.01267
Std Dev 1.124

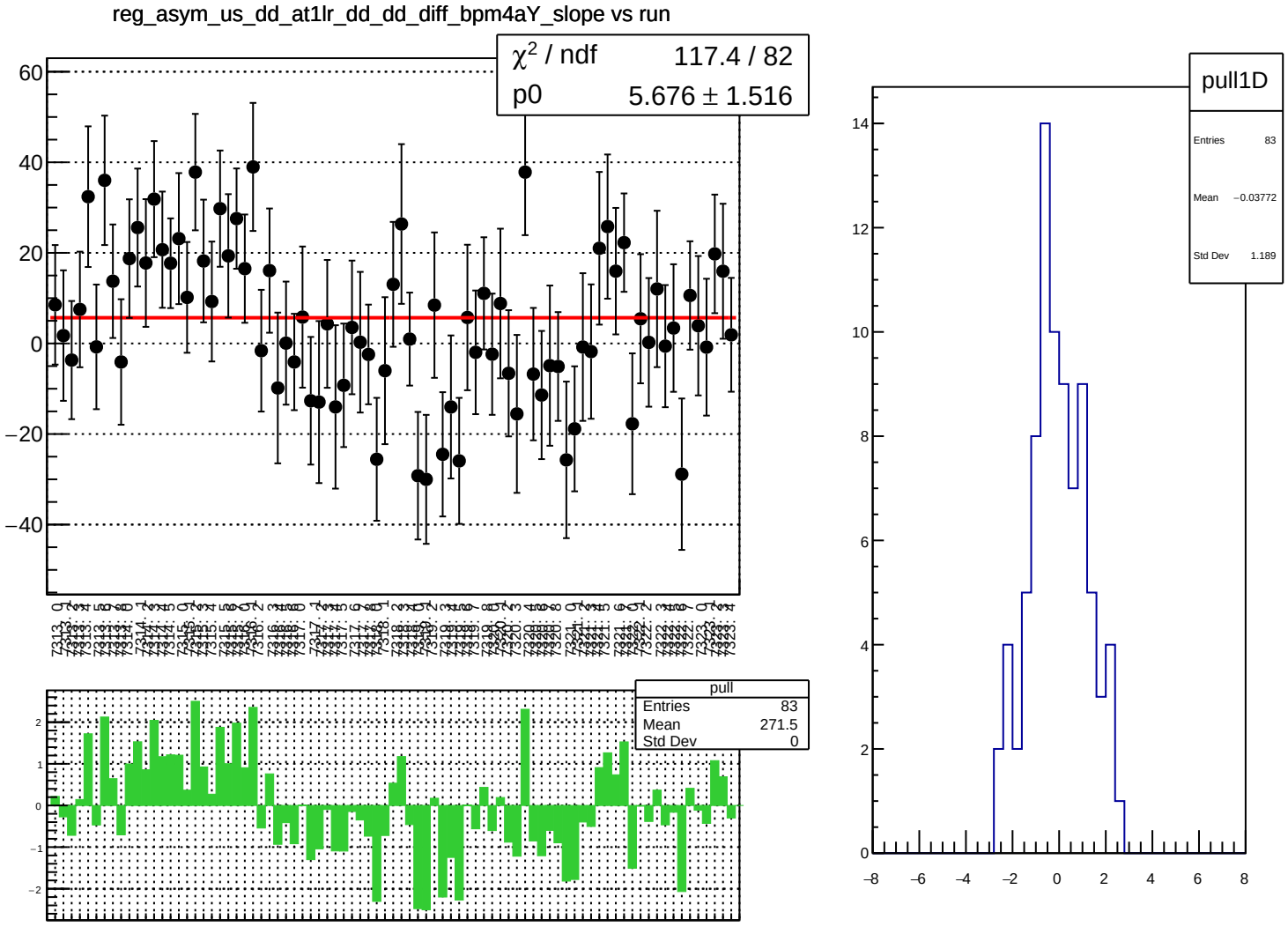

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.66 / 82
p0 −26.27 ± 2.131
pull
Entries 83
Mean 121.9
Std Dev 0
pull1D
Entries 83
Mean −0.06961
Std Dev 1.054

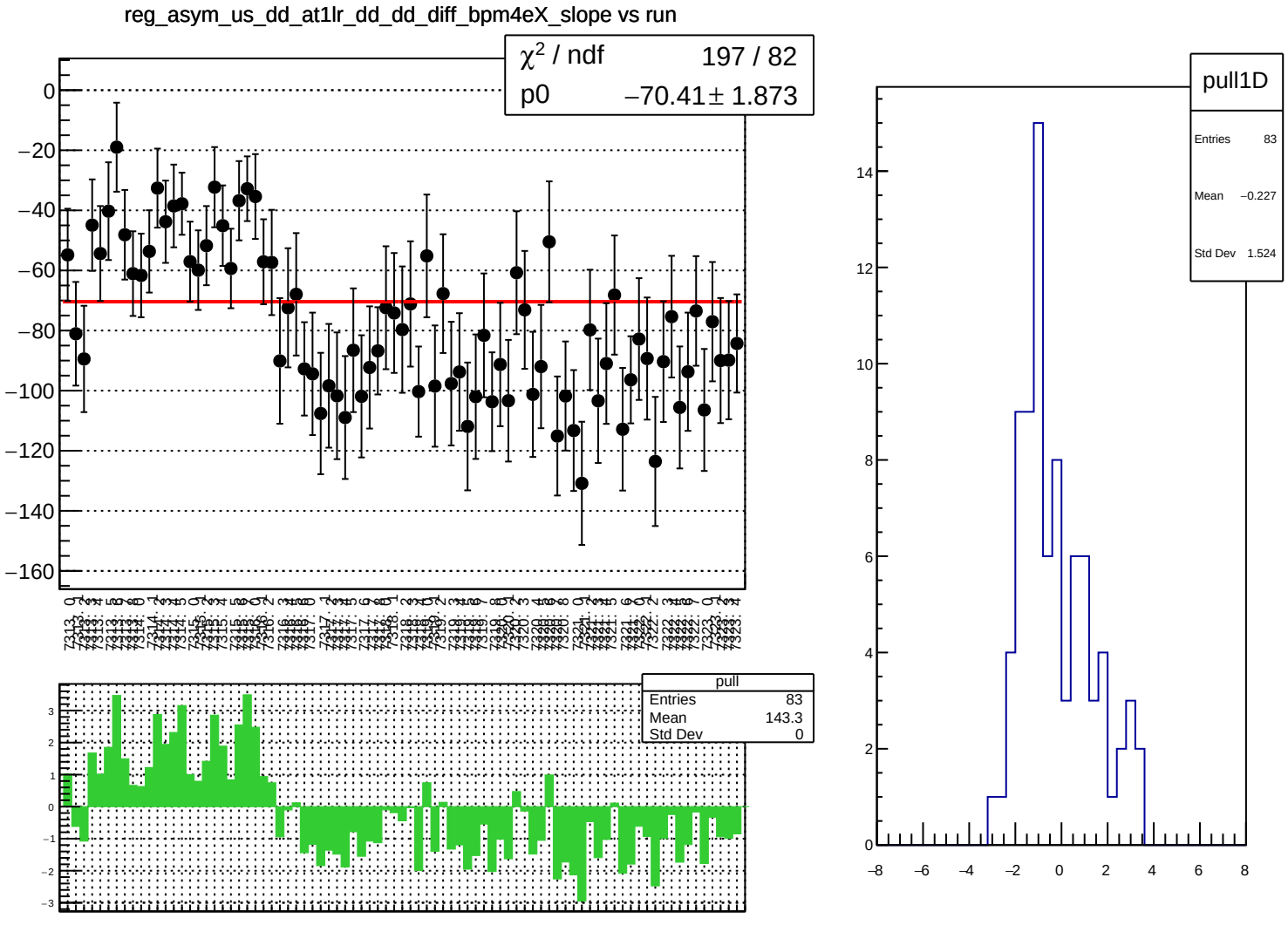

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 106.1 / 82
p0 1.534 ± 1.869
pull
Entries 83
Mean 897.4
Std Dev 0
pull1D
Entries 83
Mean 0.0073
Std Dev 1.131

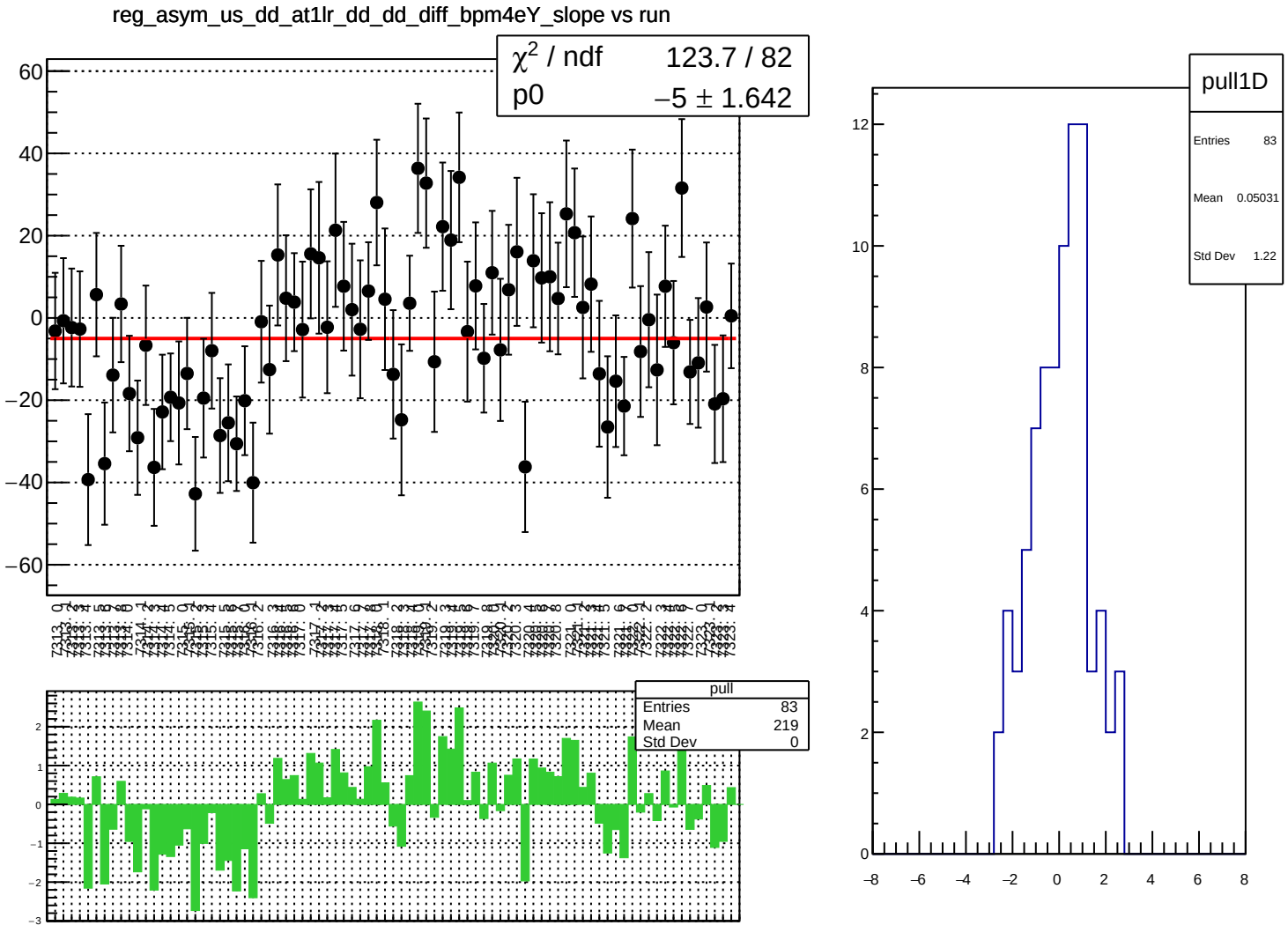

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 87.98 / 82
p0 1.284 ± 0.07693
pull
Entries 83
Mean −326.2
Std Dev 0
pull1D
Entries 83
Mean −0.01621
Std Dev 1.029

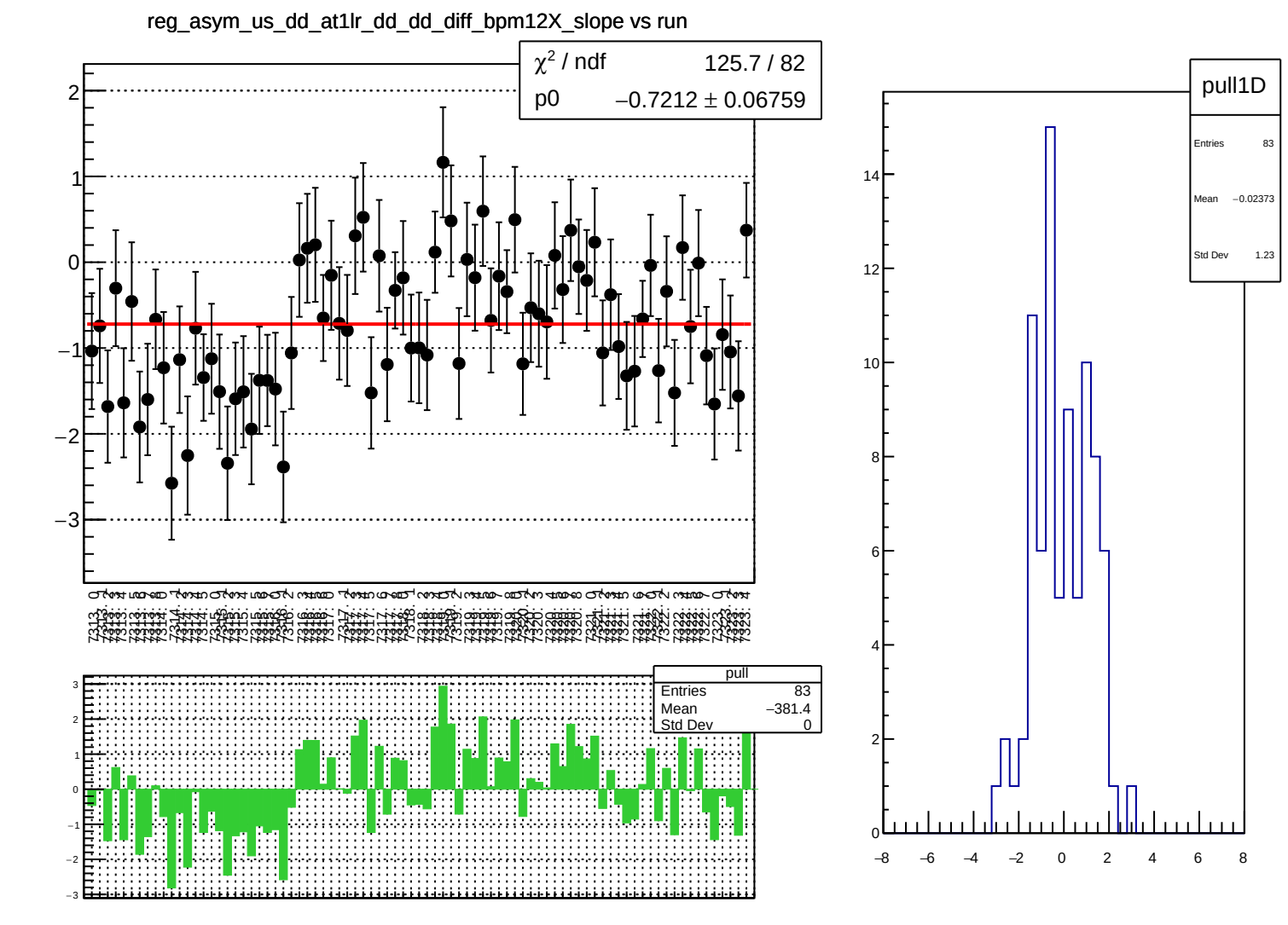

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 196.8 / 82
p0 −36.44 ± 1.885
pull
Entries 83
Mean 145.2
Std Dev 0

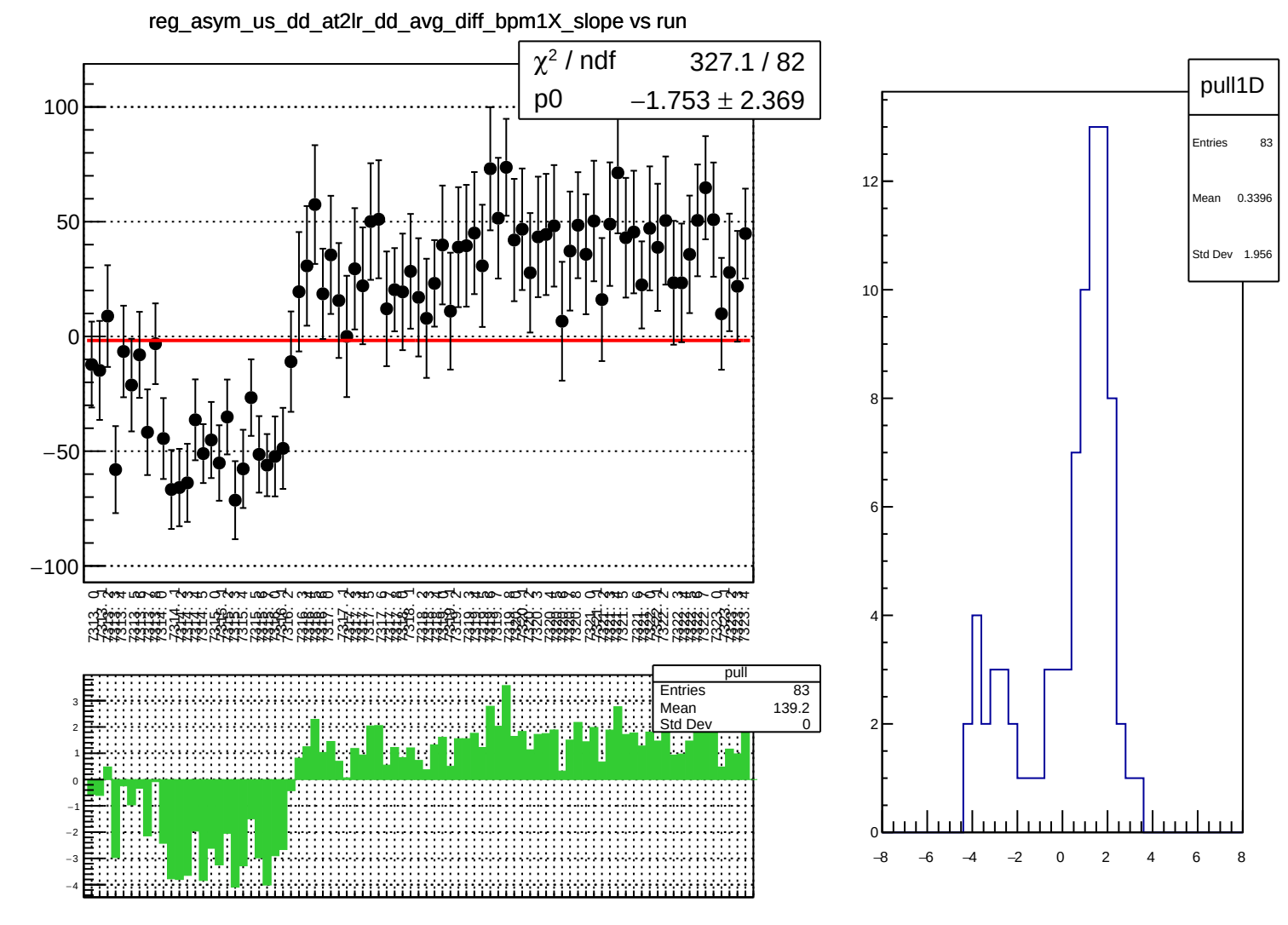

pull1D
Entries 83
Mean 0.2214
Std Dev 1.524

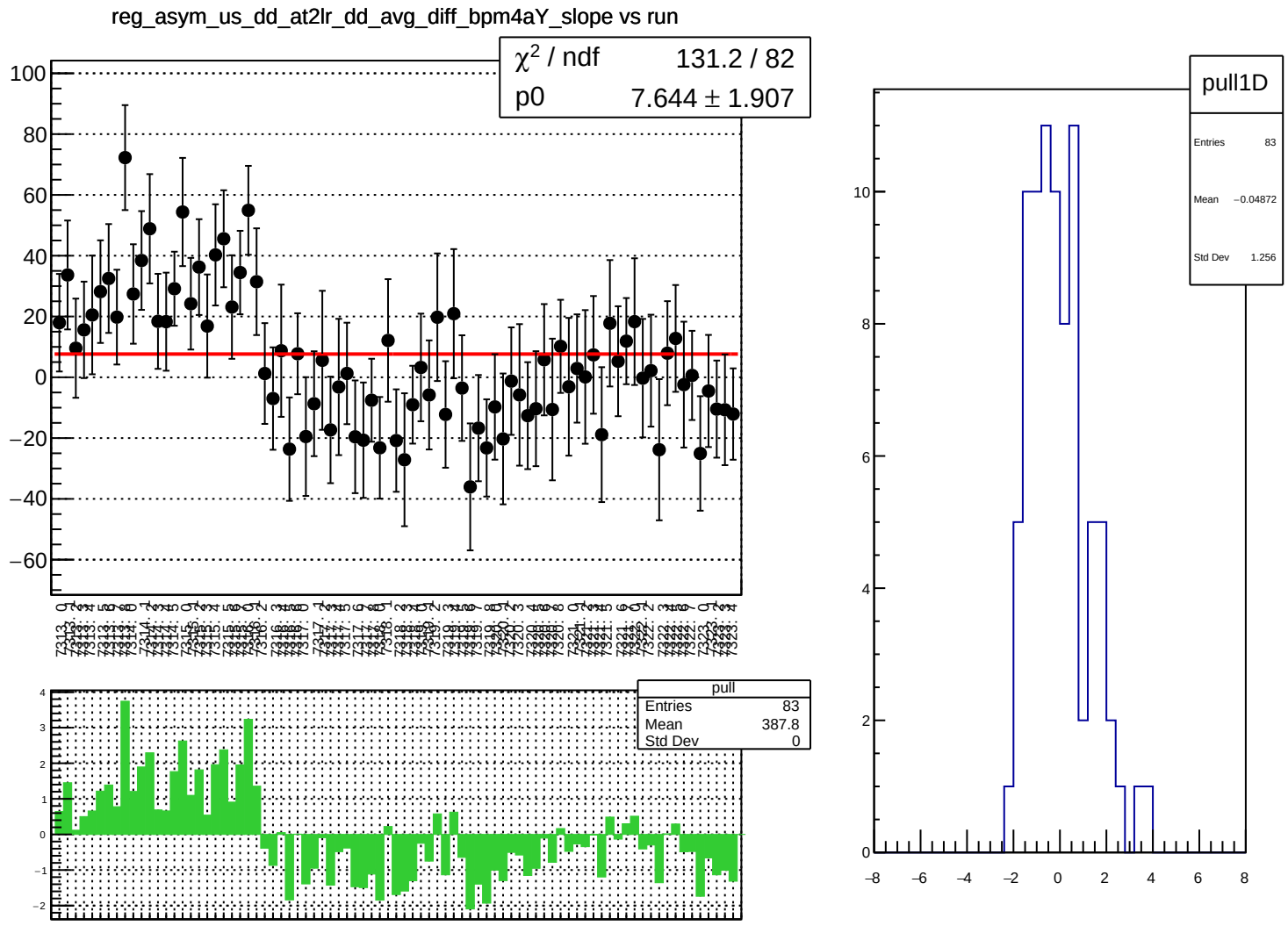

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 117.4 / 82
p0 5.676 ± 1.516
pull
Entries 83
Mean 271.5
Std Dev 0
pull1D
Entries 83
Mean −0.03772
Std Dev 1.189

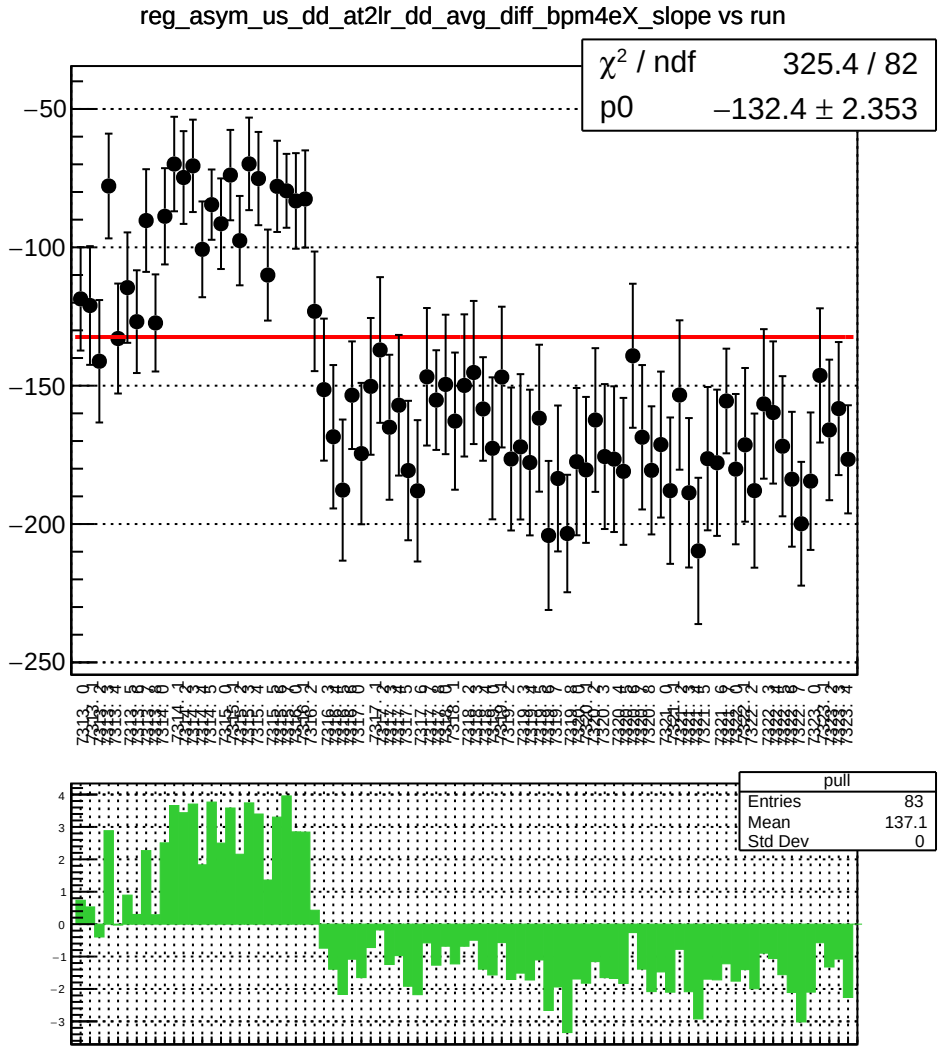

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 197 / 82
p0 −70.41 ± 1.873
pull
Entries 83
Mean 143.3
Std Dev 0
pull1D
Entries 83
Mean −0.227
Std Dev 1.524

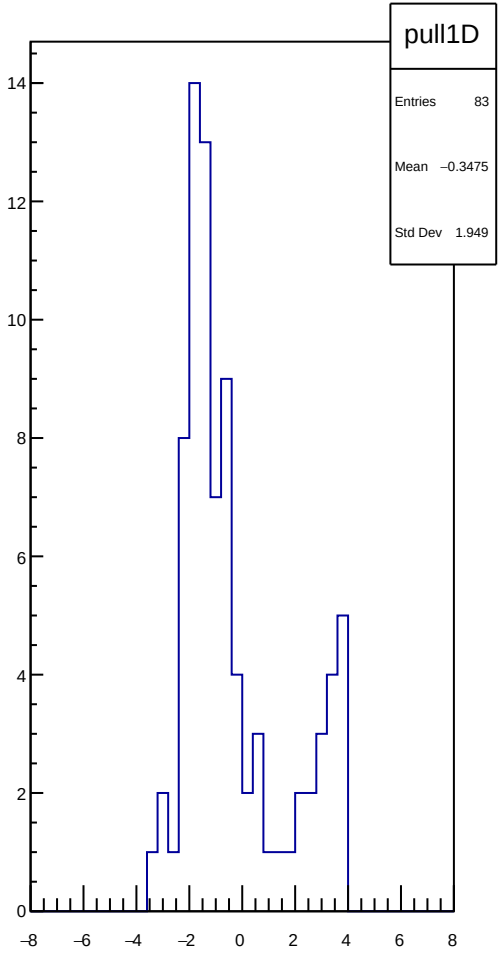

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 123.7 / 82
p0 −5 ± 1.642
pull
Entries 83
Mean 219
Std Dev 0
pull1D
Entries 83
Mean 0.05031
Std Dev 1.22

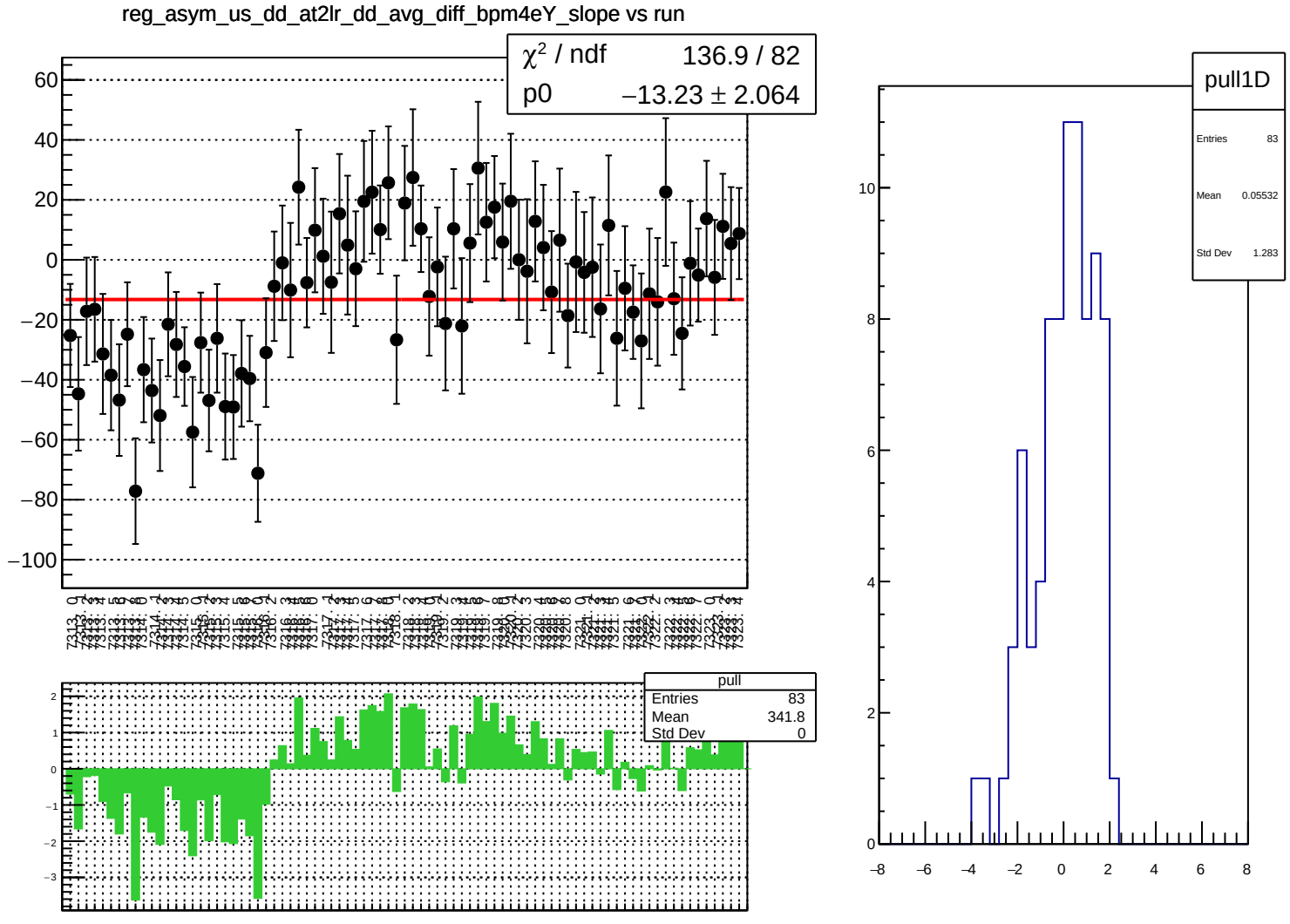

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 125.7 / 82
p0 −0.7212 ± 0.06759
pull
Entries 83
Mean −381.4
Std Dev 0
pull1D
Entries 83
Mean −0.02373
Std Dev 1.23

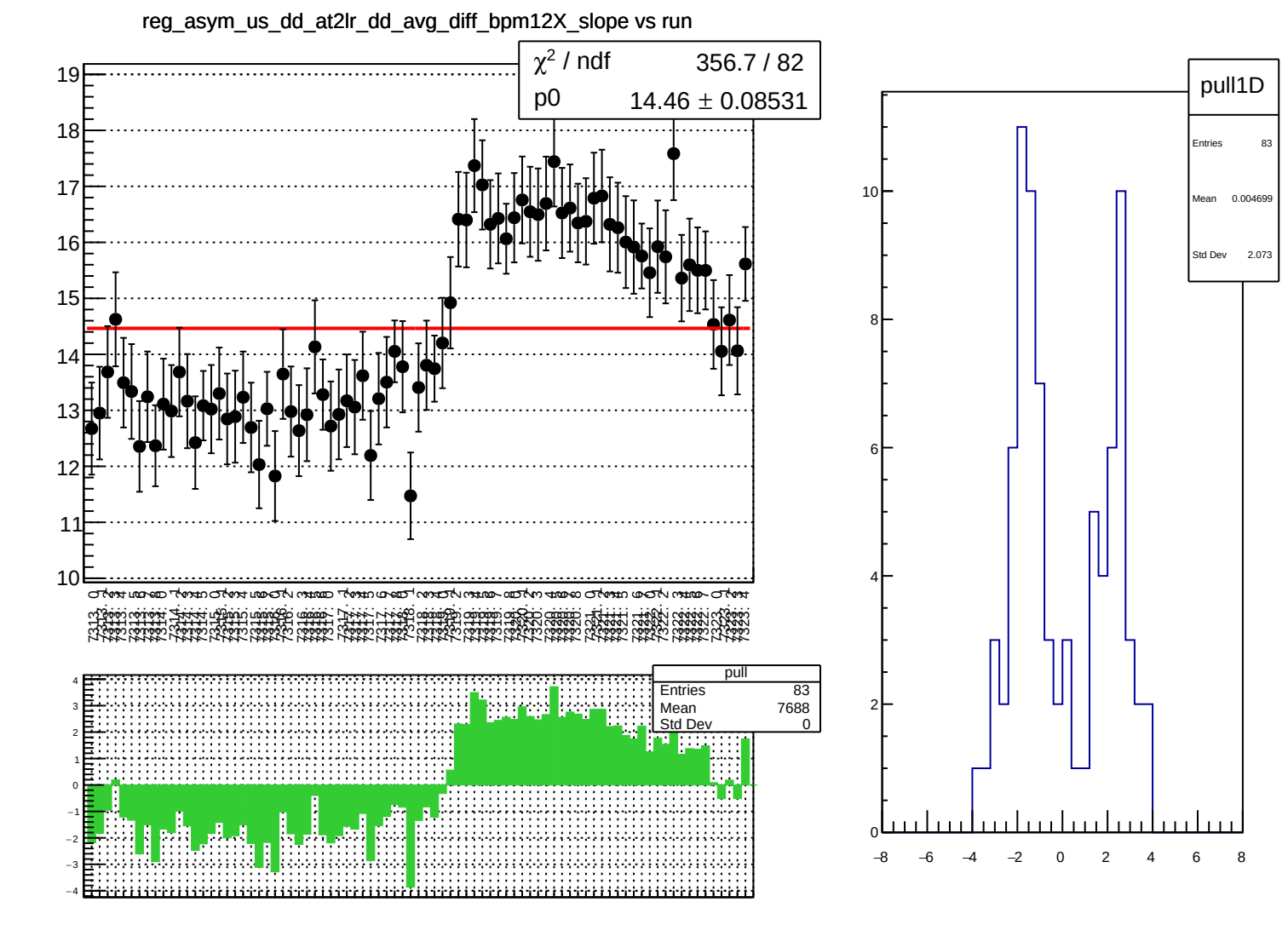

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 327.1 / 82
p0 −1.753 ± 2.369
pull
Entries 83
Mean 139.2
Std Dev 0
pull1D
Entries 83
Mean 0.3396
Std Dev 1.956

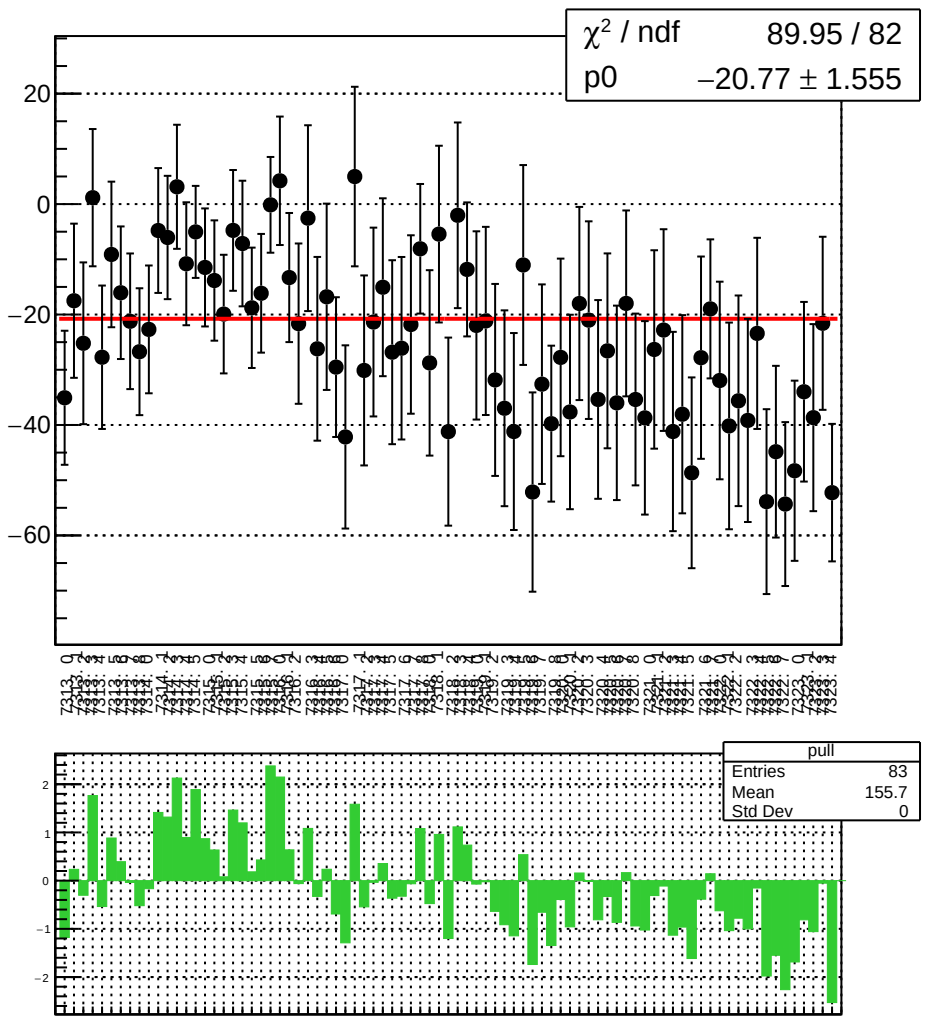

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 131.2 / 82
p0 7.644 ± 1.907
pull
Entries 83
Mean 387.8
Std Dev 0
pull1D
Entries 83
Mean −0.04872
Std Dev 1.256

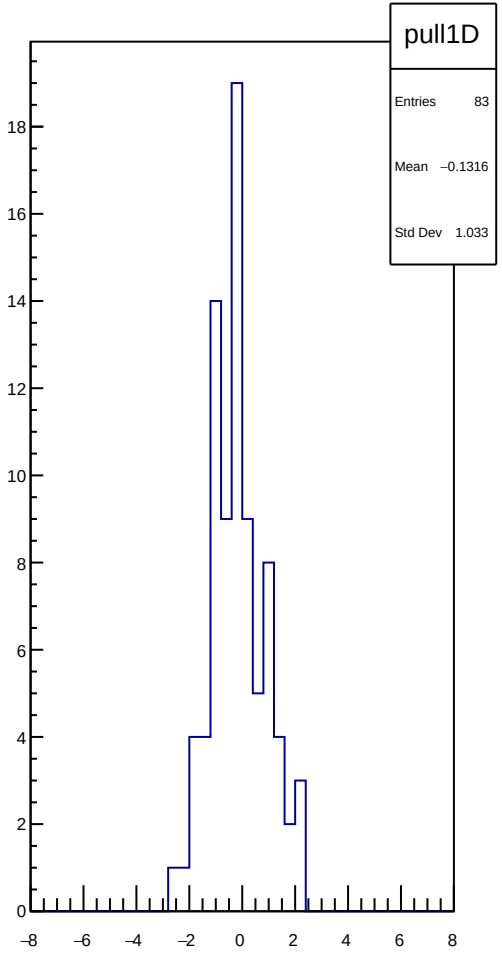

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 325.4 / 82
p0 −132.4 ± 2.353
pull
Entries 83
Mean 137.1
Std Dev 0

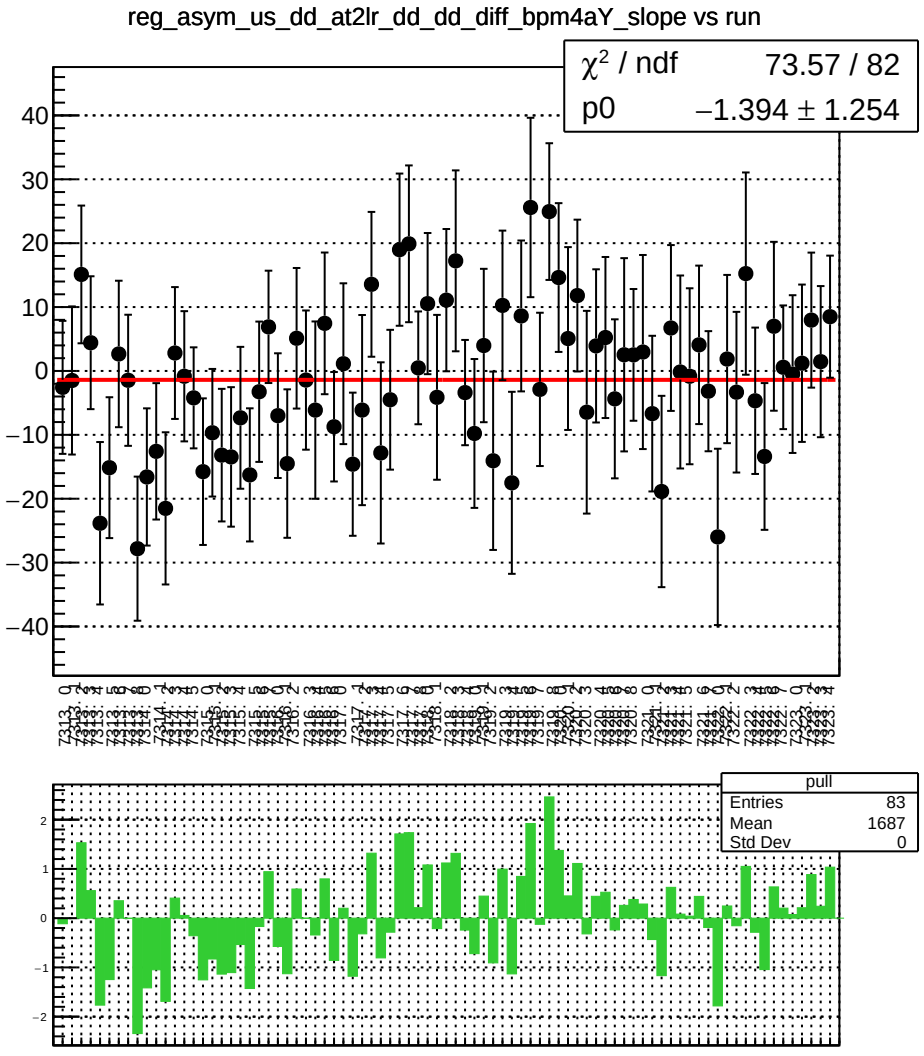

pull1D
Entries 83
Mean −0.3475
Std Dev 1.949

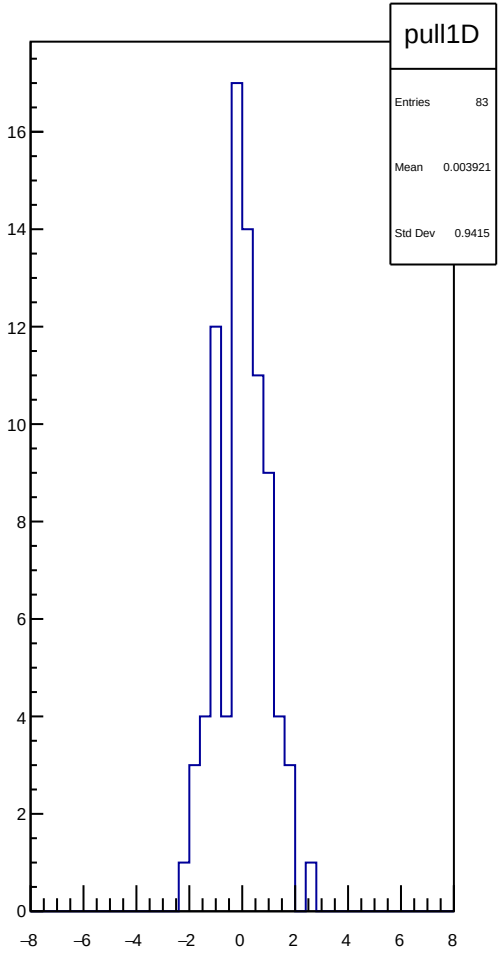

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 136.9 / 82
p0 −13.23 ± 2.064
pull
Entries 83
Mean 341.8
Std Dev 0
pull1D
Entries 83
Mean 0.05532
Std Dev 1.283

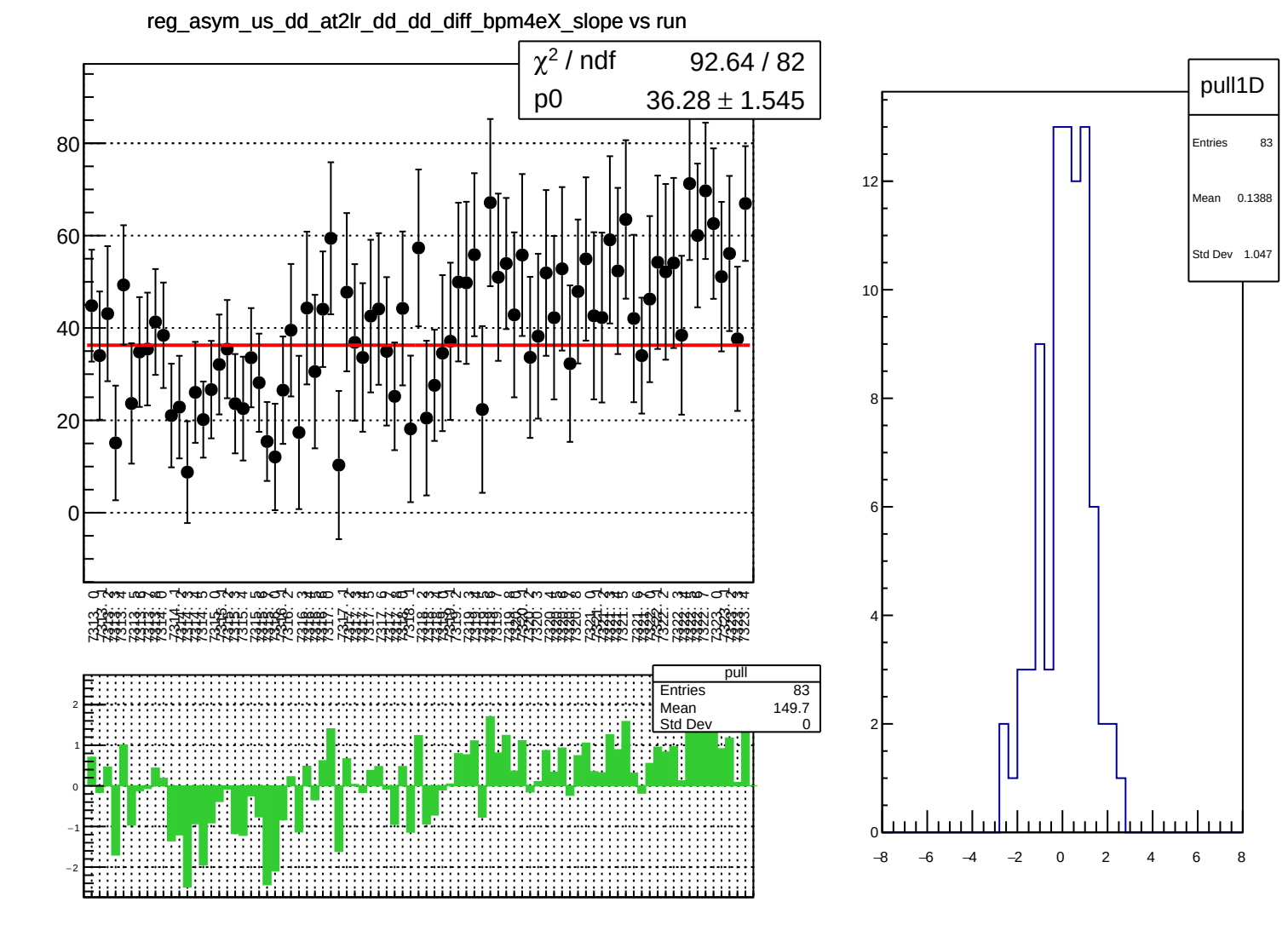

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 356.7 / 82
p0 14.46 ± 0.08531
pull
Entries 83
Mean 7688
Std Dev 0
pull1D
Entries 83
Mean 0.004699
Std Dev 2.073

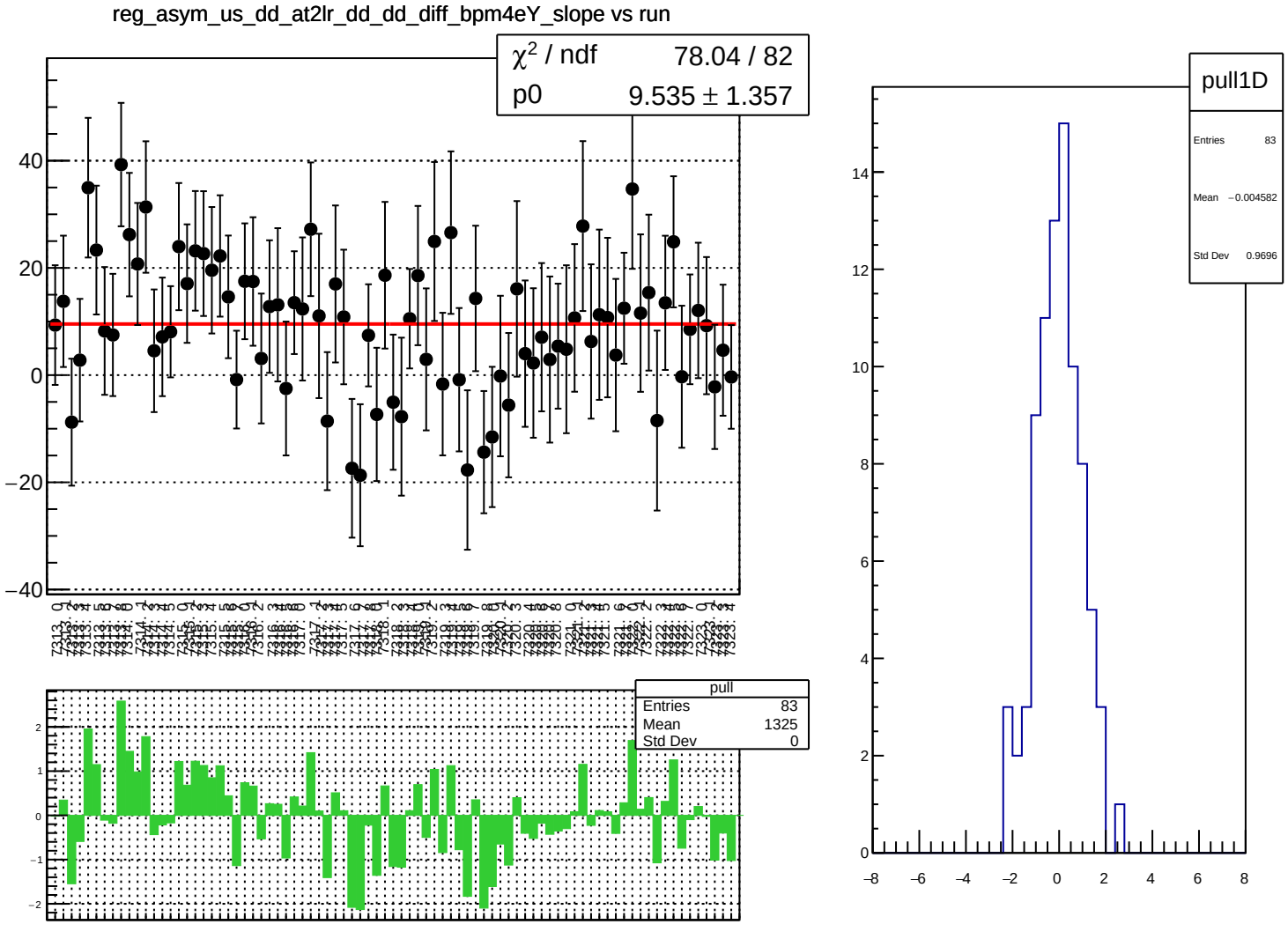

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 89.95 / 82
p0 −20.77 ± 1.555
pull
Entries 83
Mean 155.7
Std Dev 0

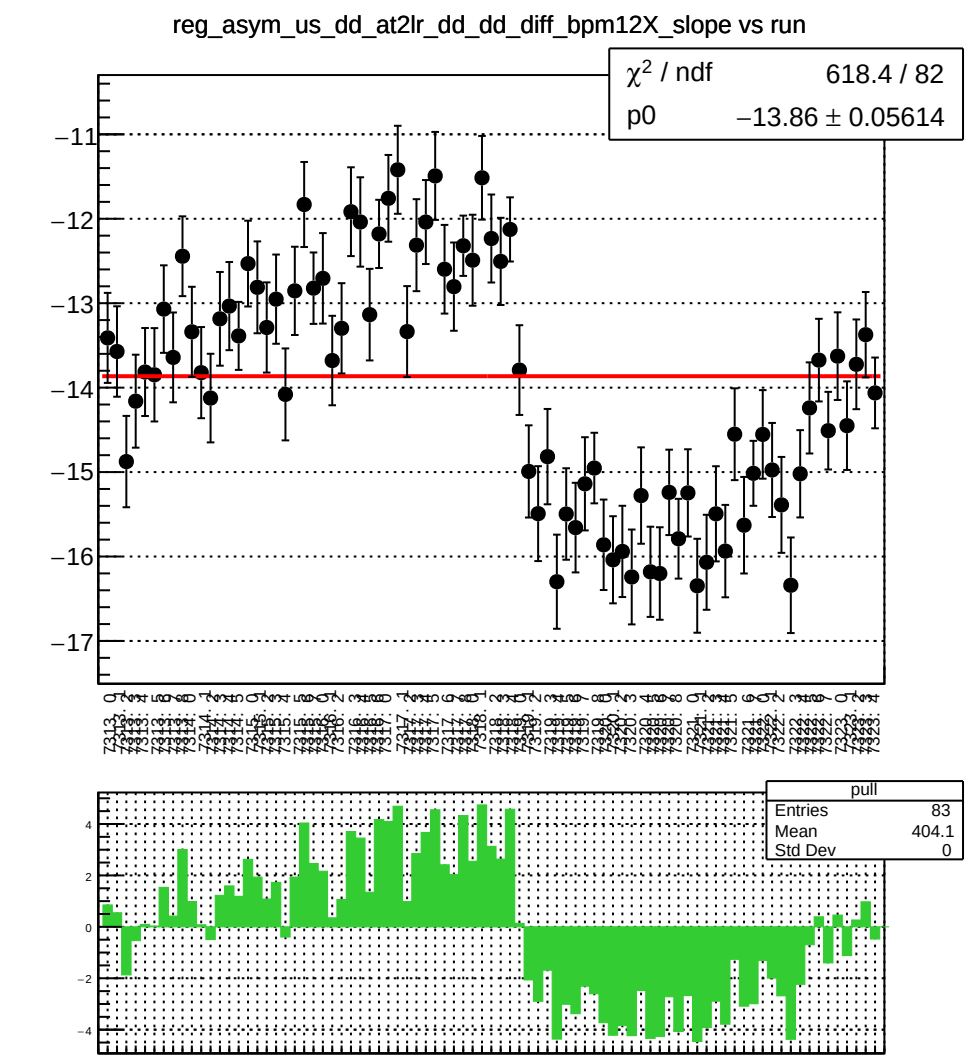

pull1D
Entries 83
Mean −0.1316
Std Dev 1.033

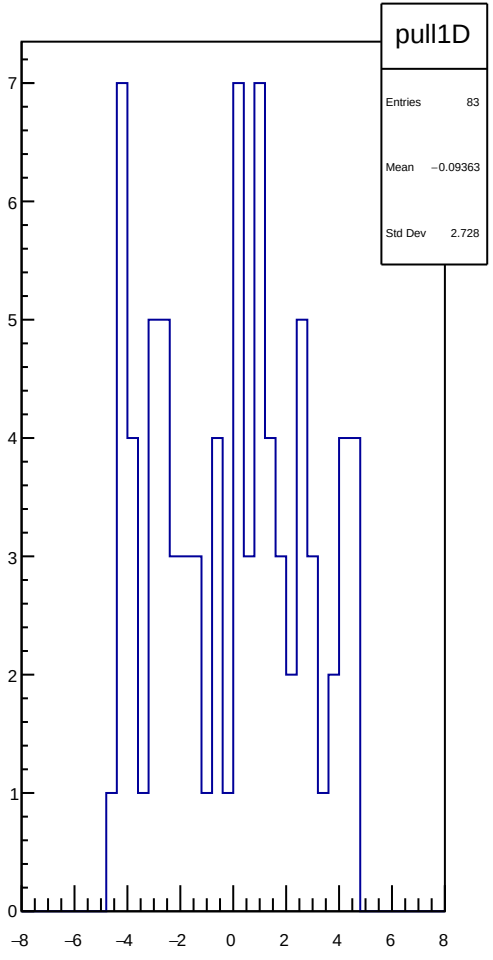

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.57 / 82
p0 −1.394 ± 1.254
pull
Entries 83
Mean 1687
Std Dev 0

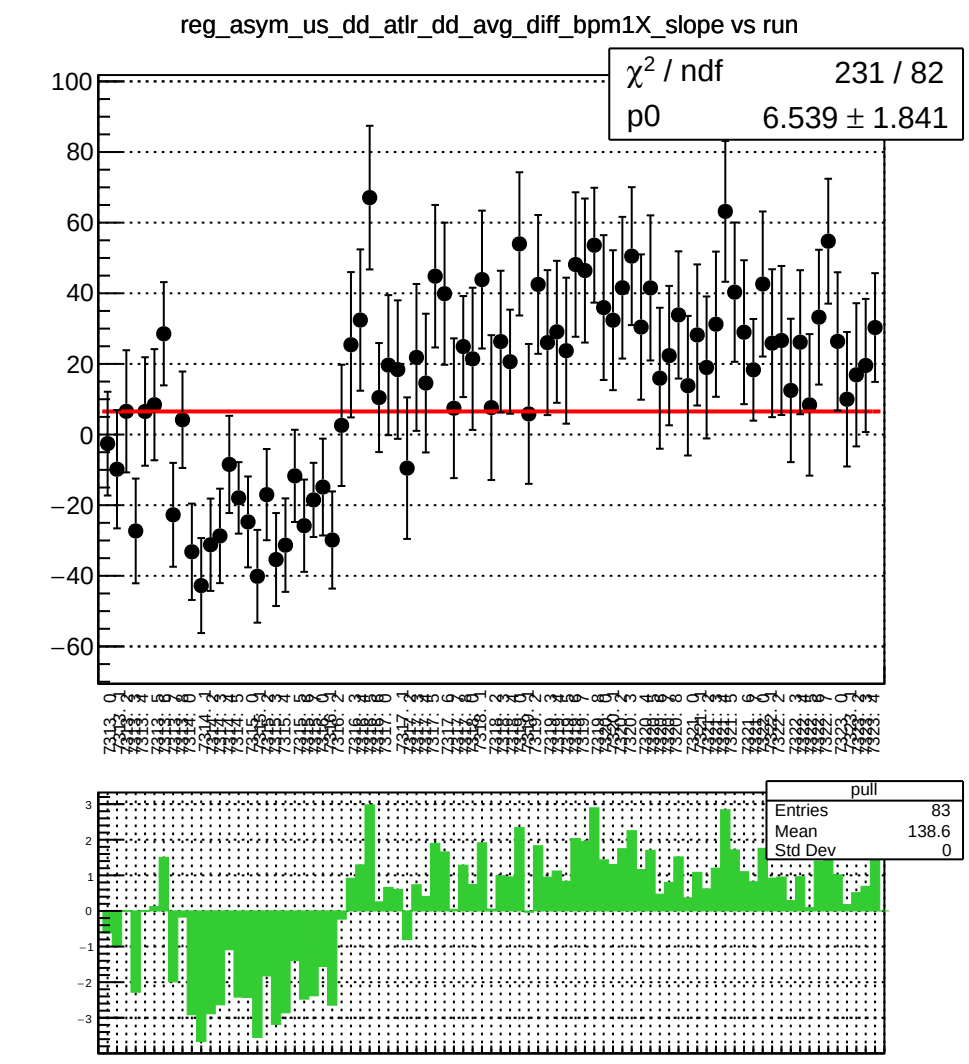

pull1D
Entries 83
Mean 0.003921
Std Dev 0.9415

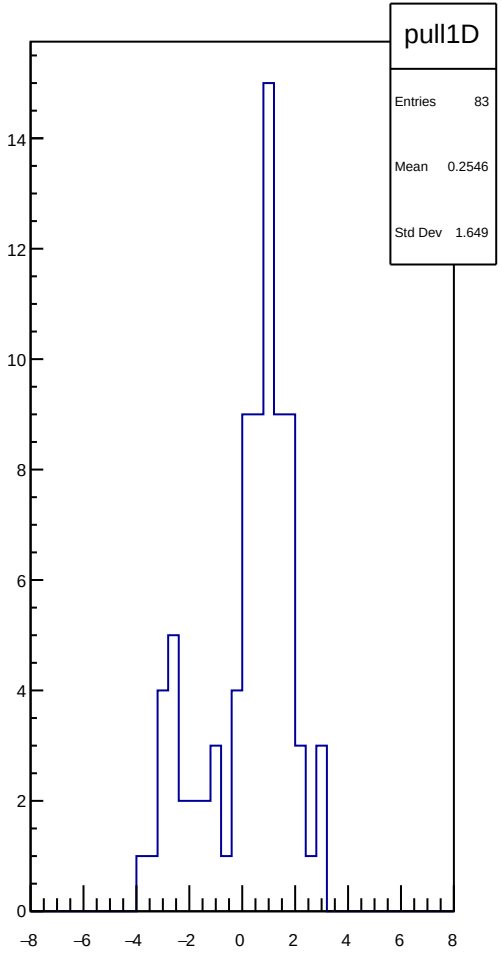

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.64 / 82
p0 36.28 ± 1.545
pull
Entries 83
Mean 149.7
Std Dev 0
pull1D
Entries 83
Mean 0.1388
Std Dev 1.047

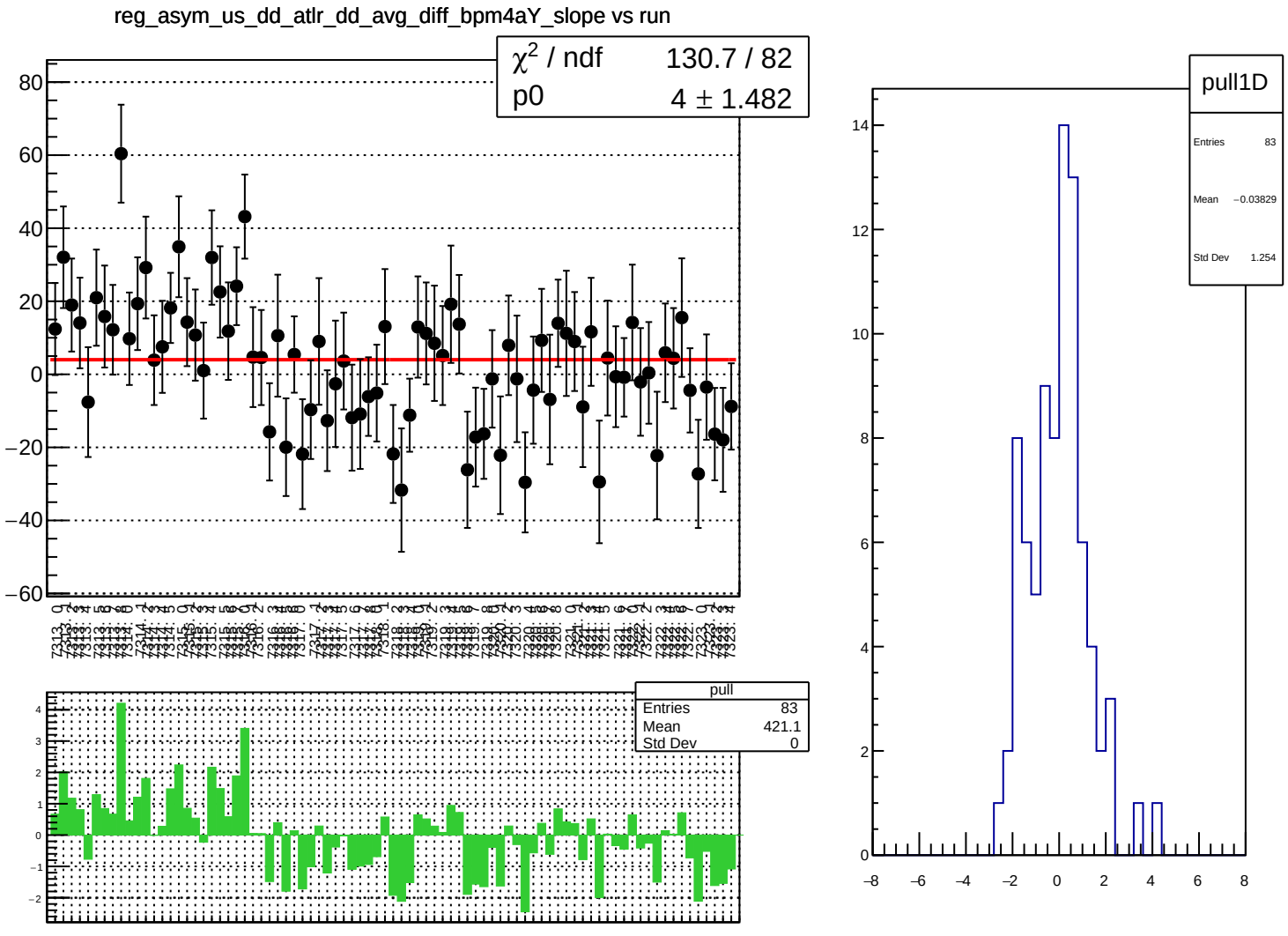

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.04 / 82
p0 9.535 ± 1.357
pull
Entries 83
Mean 1325
Std Dev 0
pull1D
Entries 83
Mean −0.004582
Std Dev 0.9696

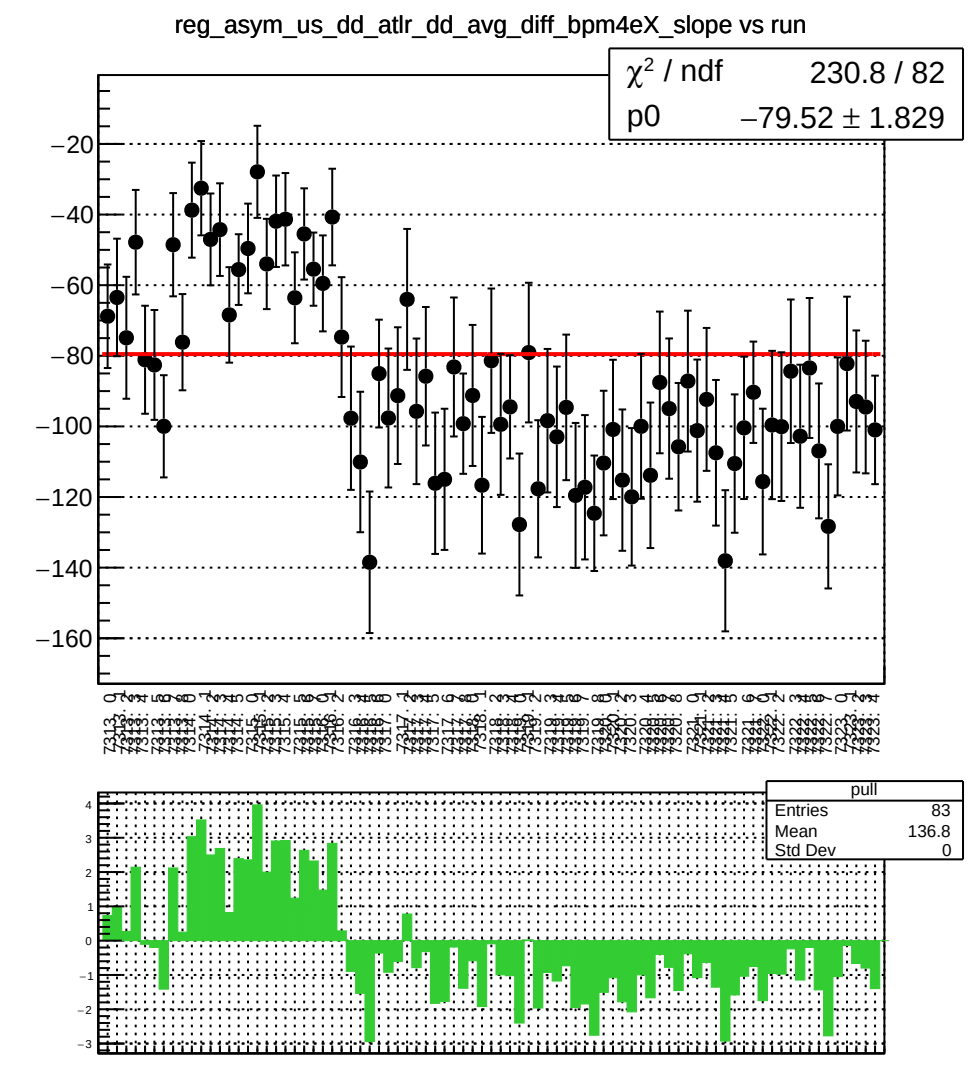

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 618.4 / 82
p0 −13.86 ± 0.05614
pull
Entries 83
Mean 404.1
Std Dev 0

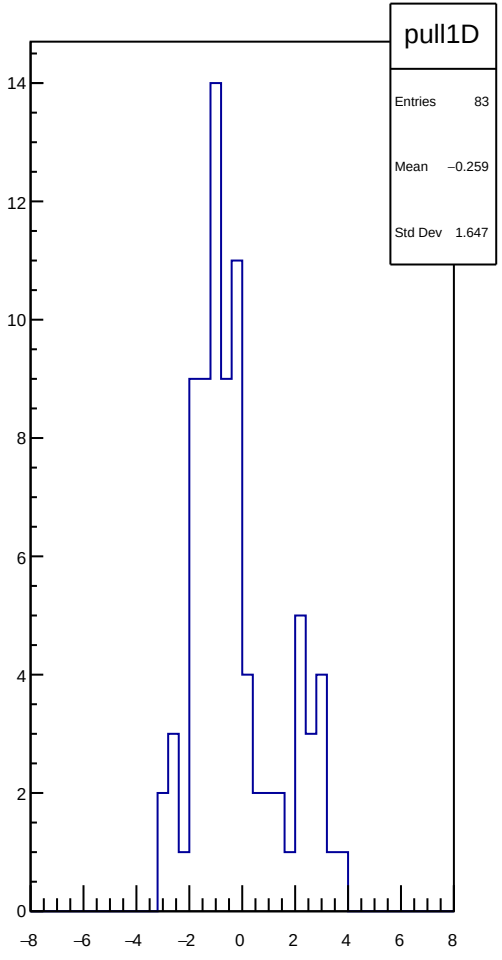

pull1D
Entries 83
Mean −0.09363
Std Dev 2.728

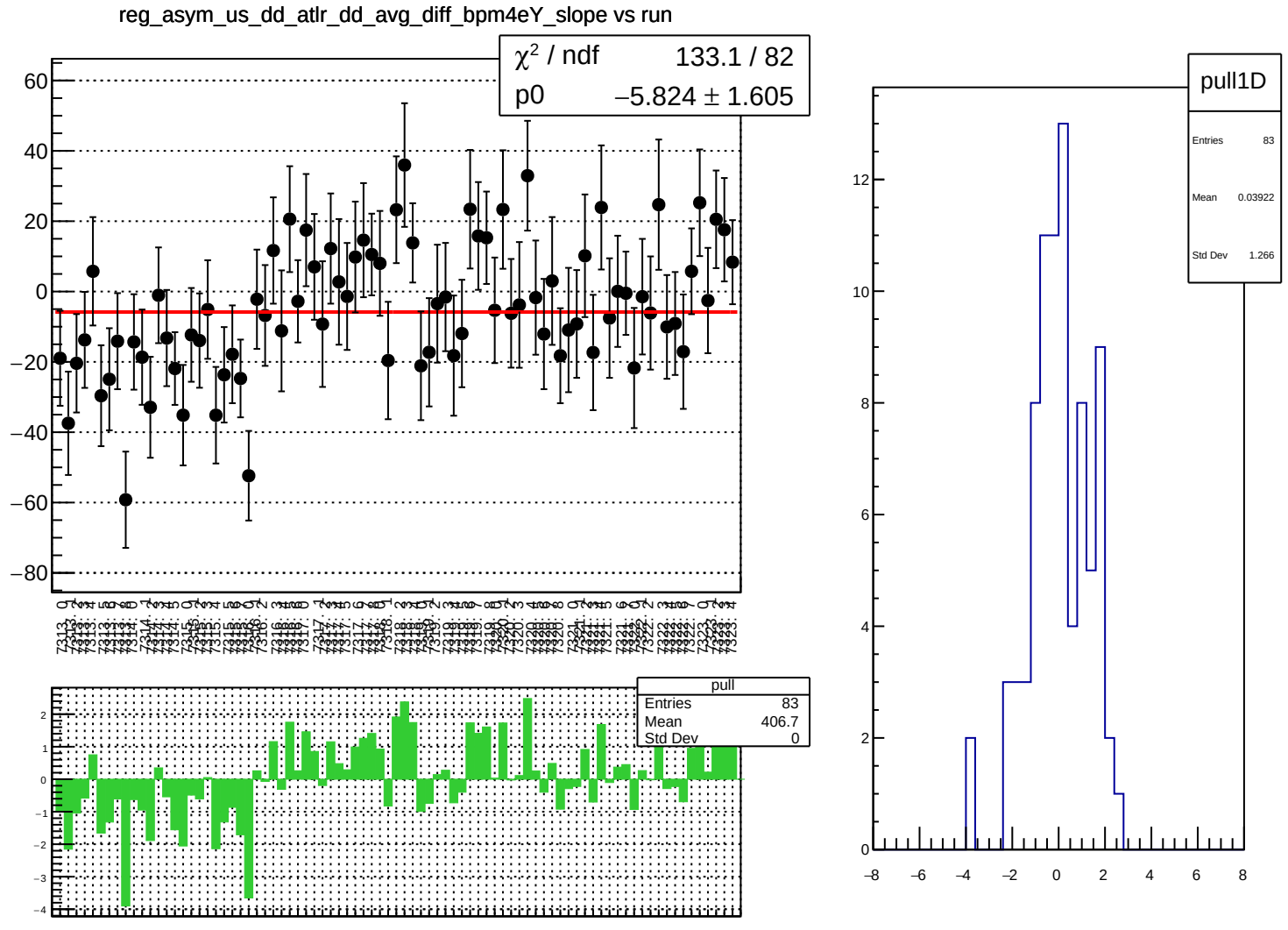

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 231 / 82
p0 6.539 ± 1.841
pull
Entries 83
Mean 138.6
Std Dev 0

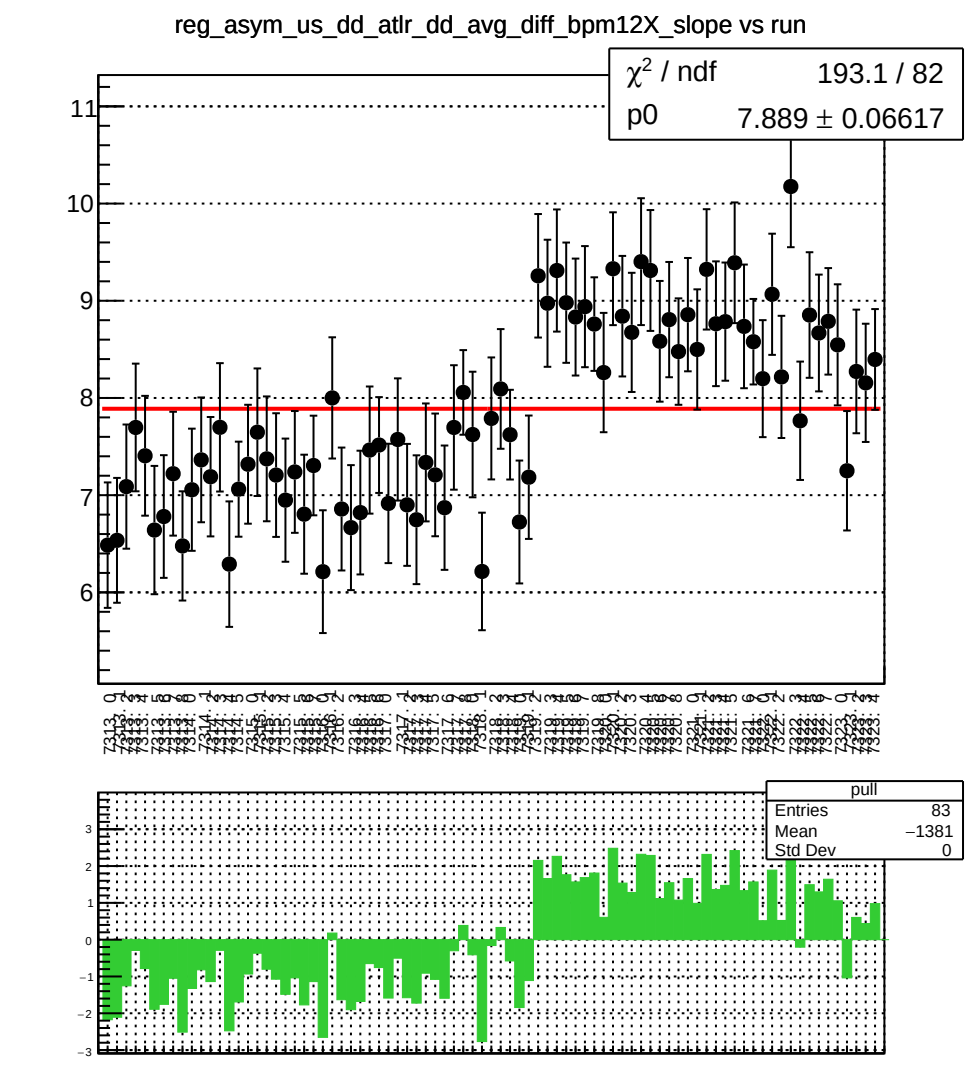

pull1D
Entries 83
Mean 0.2546
Std Dev 1.649

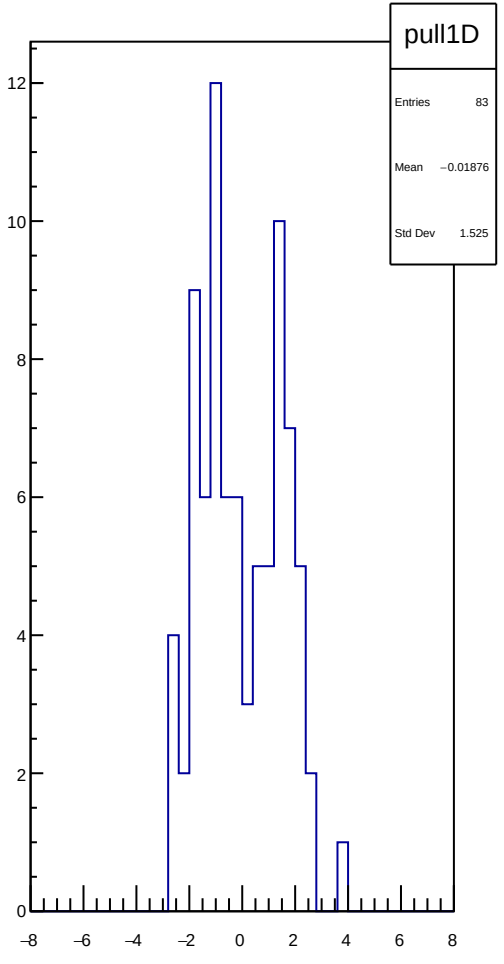

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 130.7 / 82
p0 4 ± 1.482
pull
Entries 83
Mean 421.1
Std Dev 0
pull1D
Entries 83
Mean −0.03829
Std Dev 1.254

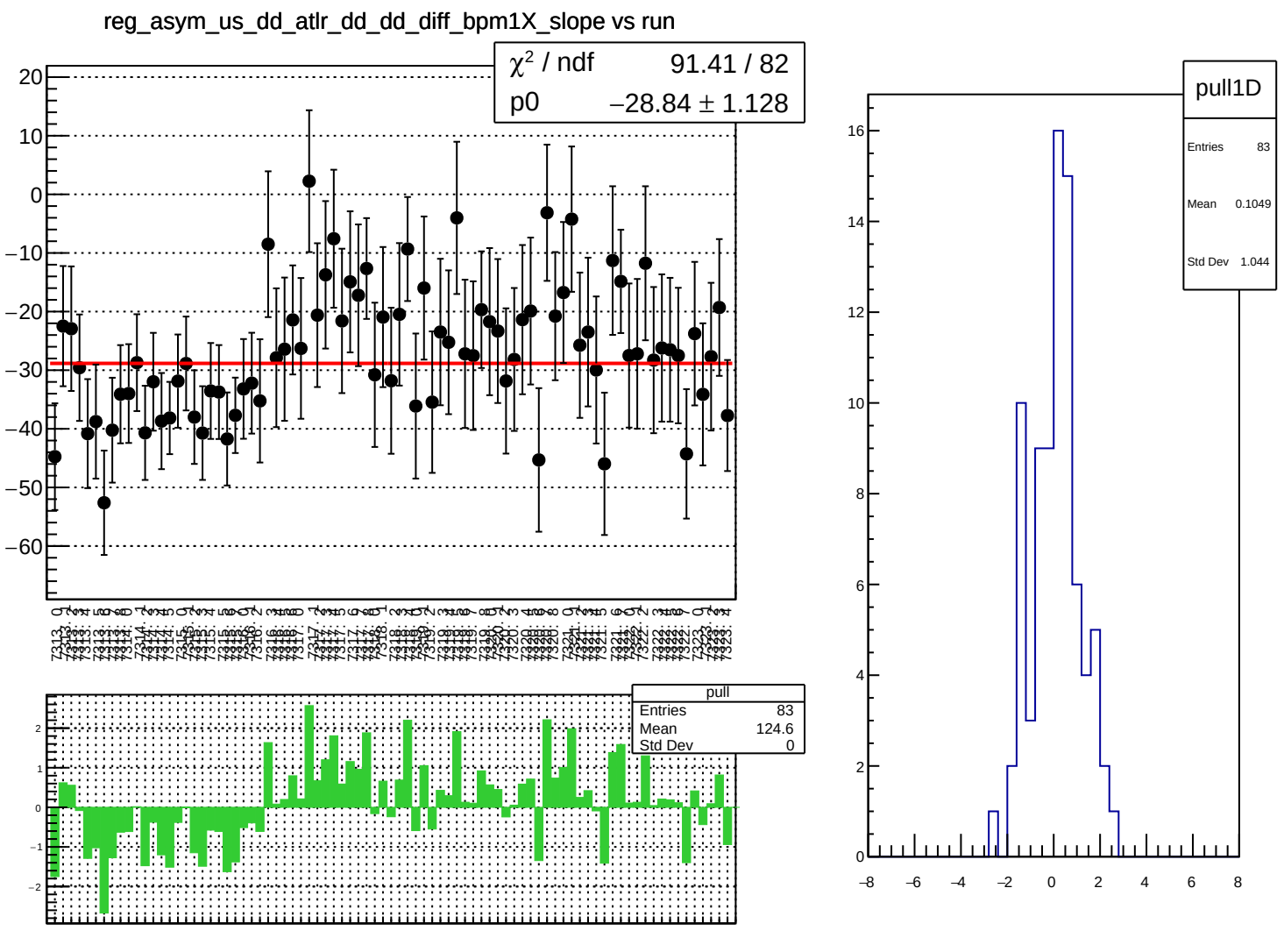

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 230.8 / 82
p0 −79.52 ± 1.829
pull
Entries 83
Mean 136.8
Std Dev 0

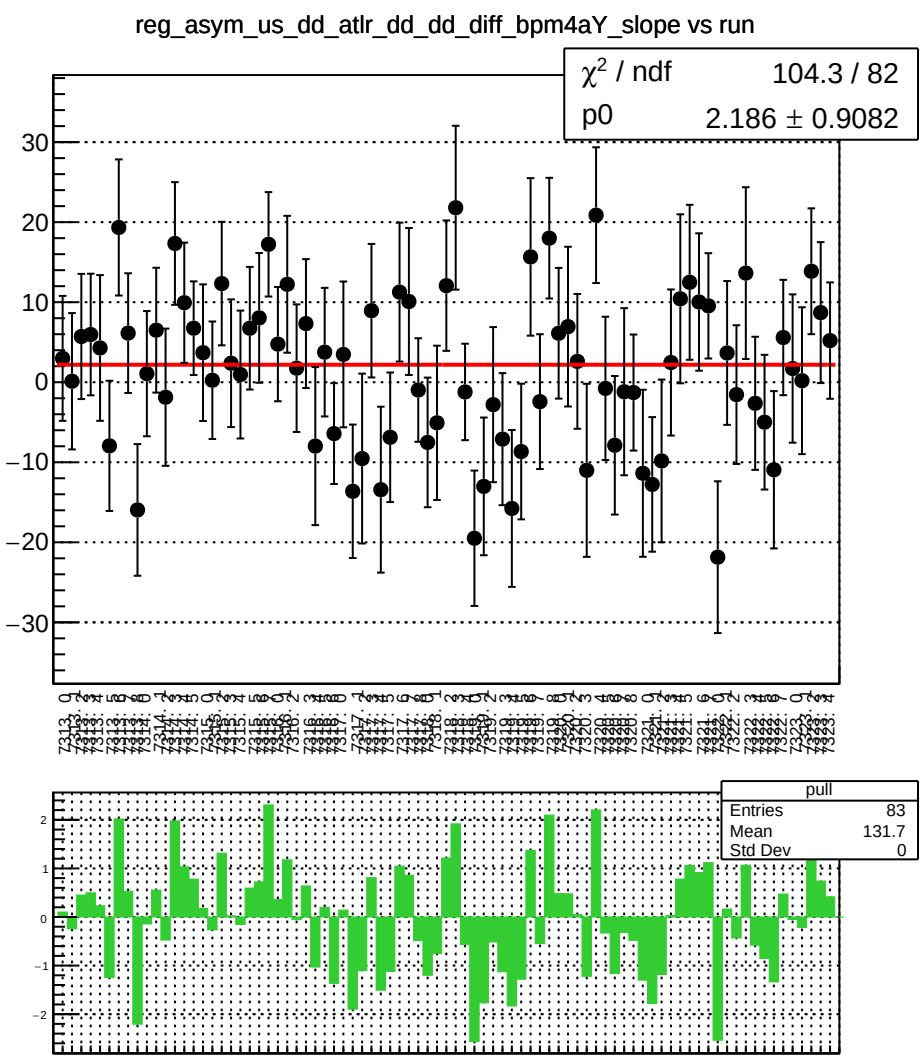

pull1D
Entries 83
Mean −0.259
Std Dev 1.647

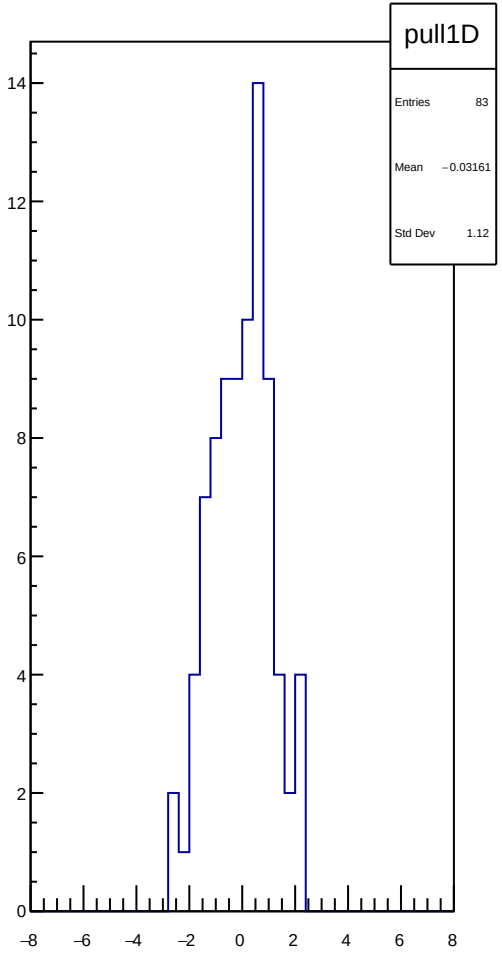

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 133.1 / 82
p0 −5.824 ± 1.605
pull
Entries 83
Mean 406.7
Std Dev 0
pull1D
Entries 83
Mean 0.03922
Std Dev 1.266

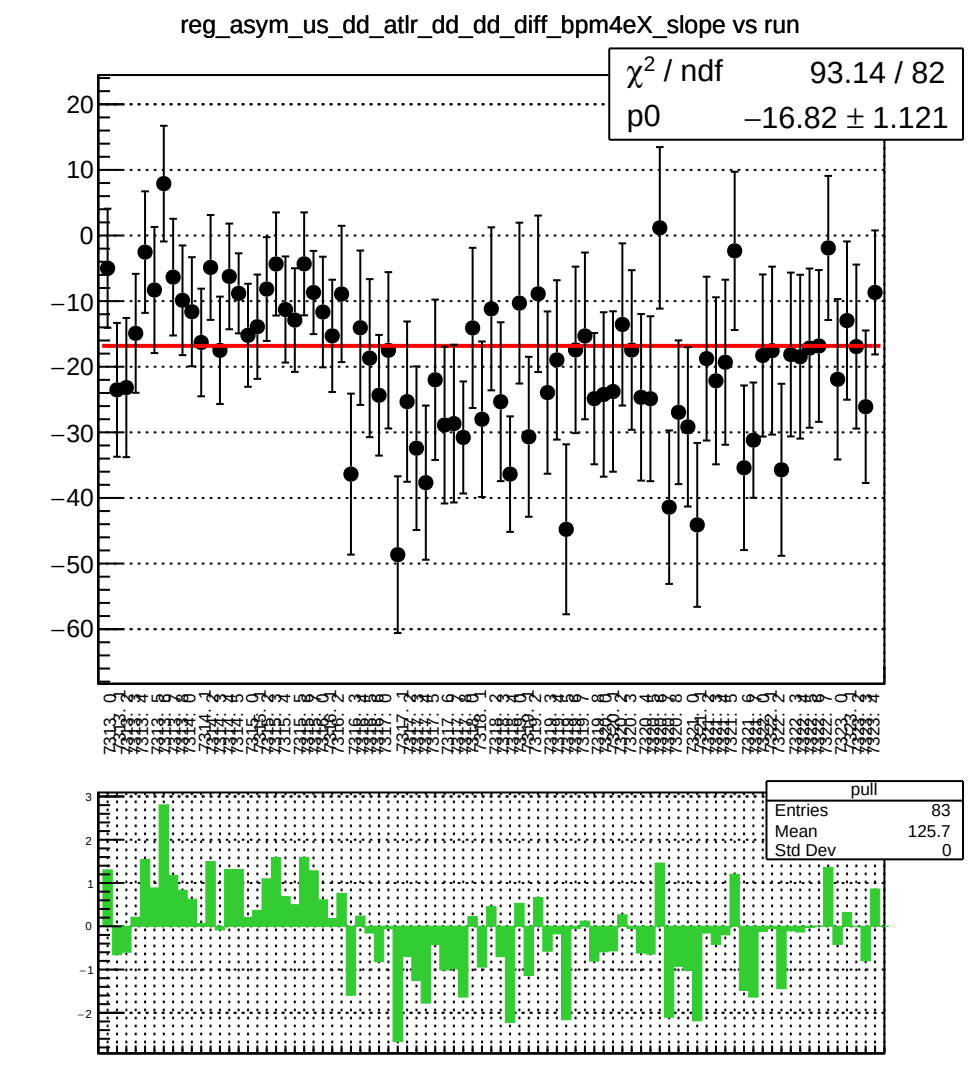

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 193.1 / 82
p0 7.889 ± 0.06617
pull
Entries 83
Mean −1381
Std Dev 0

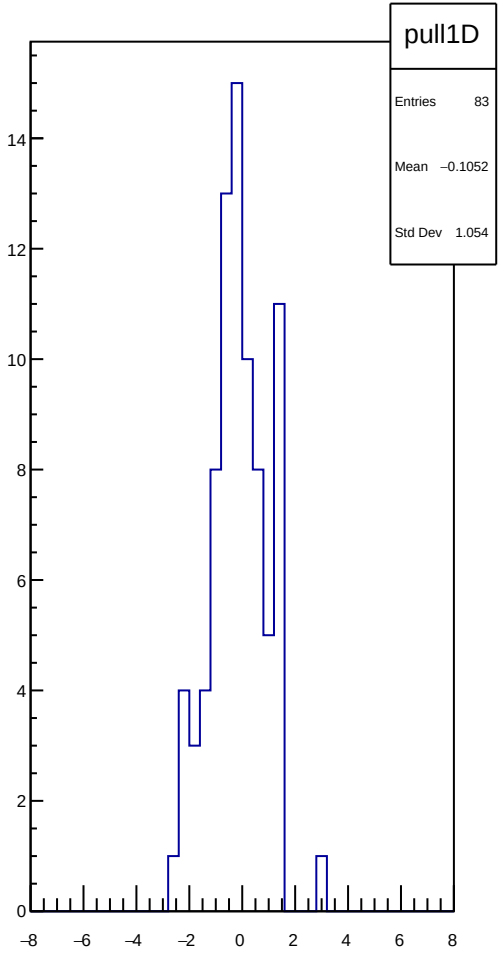

pull1D
Entries 83
Mean −0.01876
Std Dev 1.525

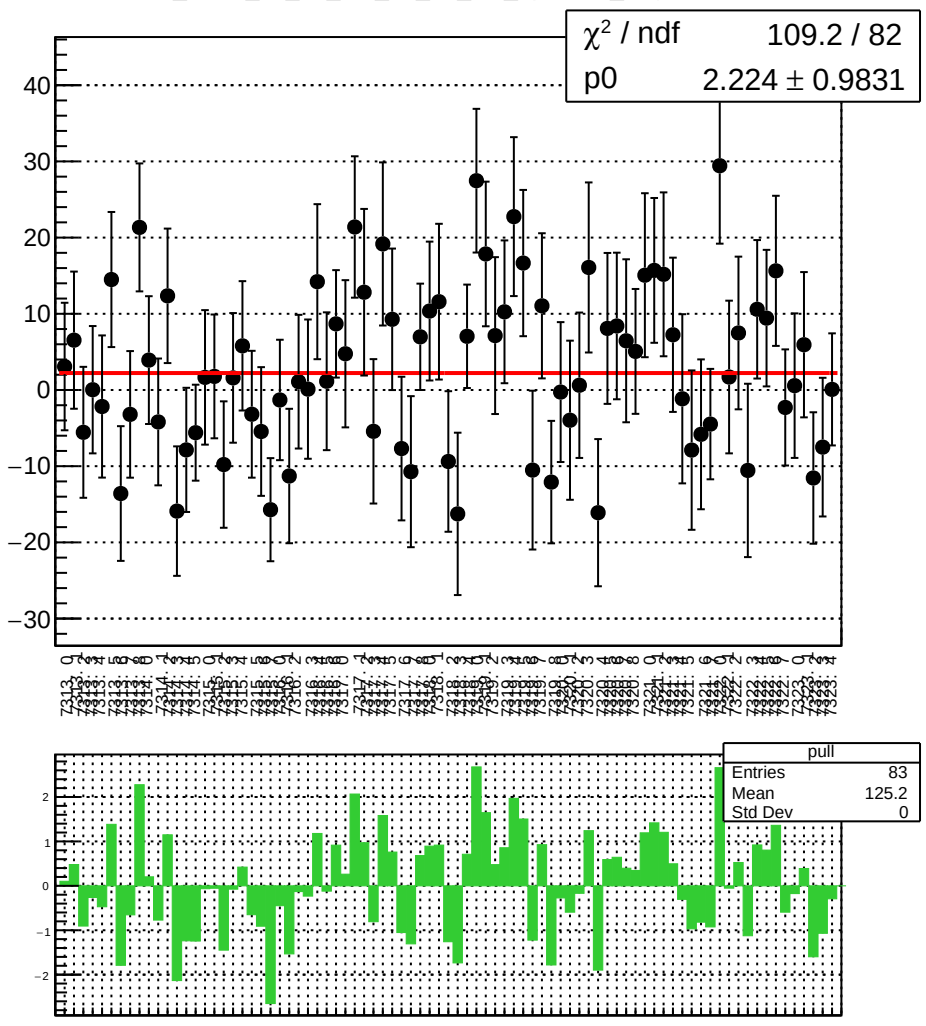

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 91.41 / 82
p0 −28.84 ± 1.128
pull
Entries 83
Mean 124.6
Std Dev 0
pull1D
Entries 83
Mean 0.1049
Std Dev 1.044

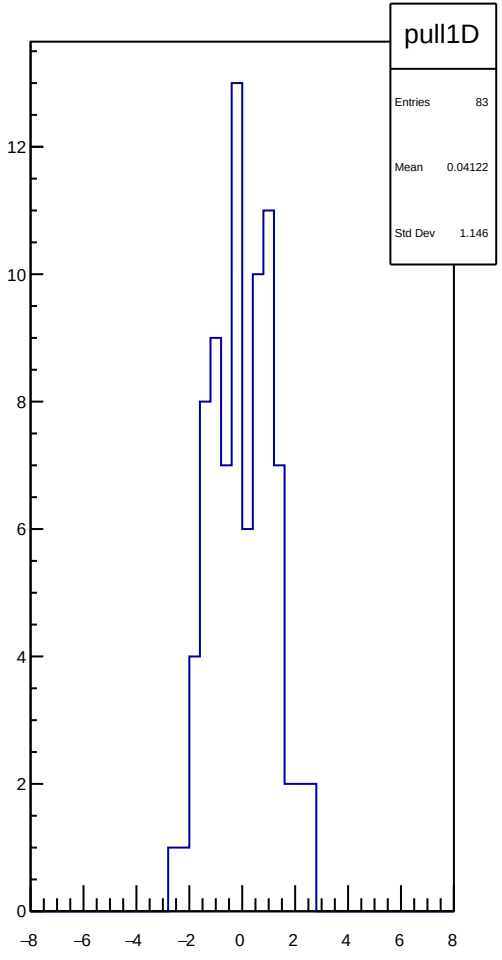

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 104.3 / 82
p0 2.186 ± 0.9082
pull
Entries 83
Mean 131.7
Std Dev 0

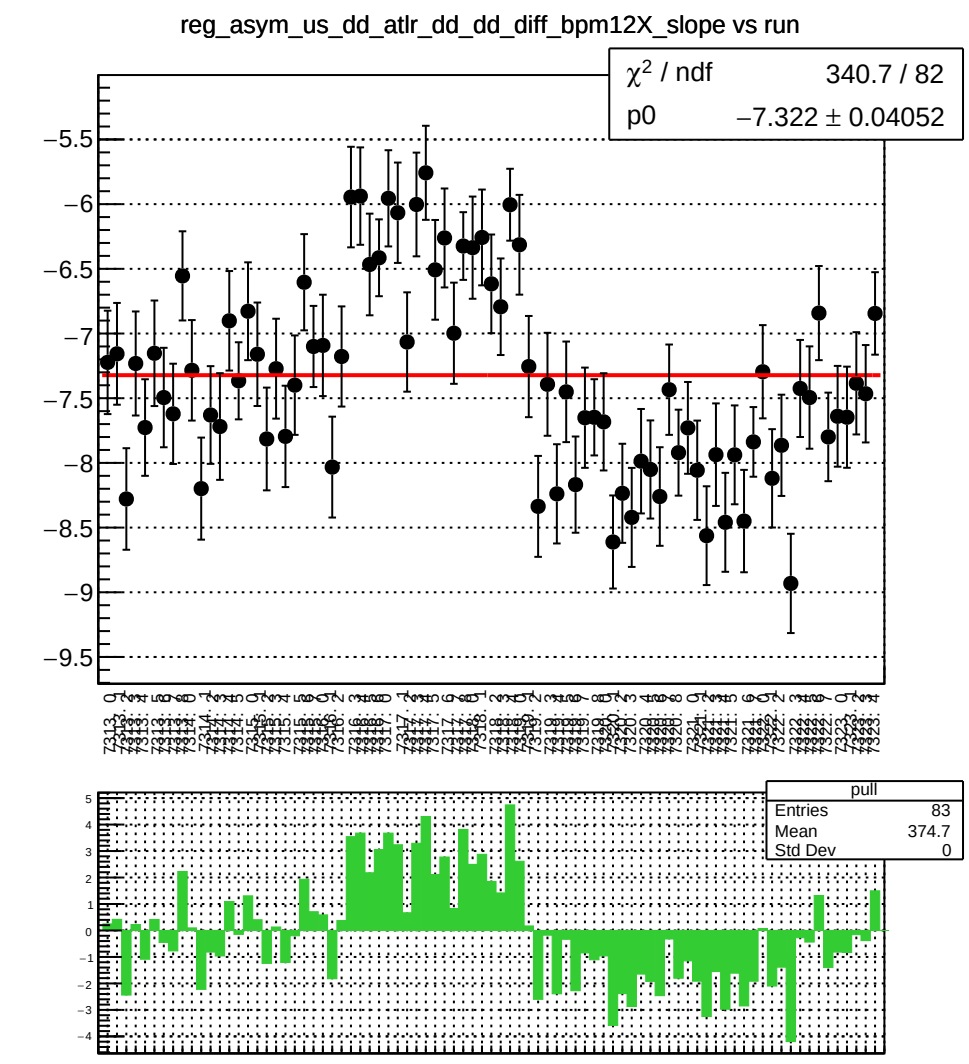

pull1D
Entries 83
Mean −0.03161
Std Dev 1.12

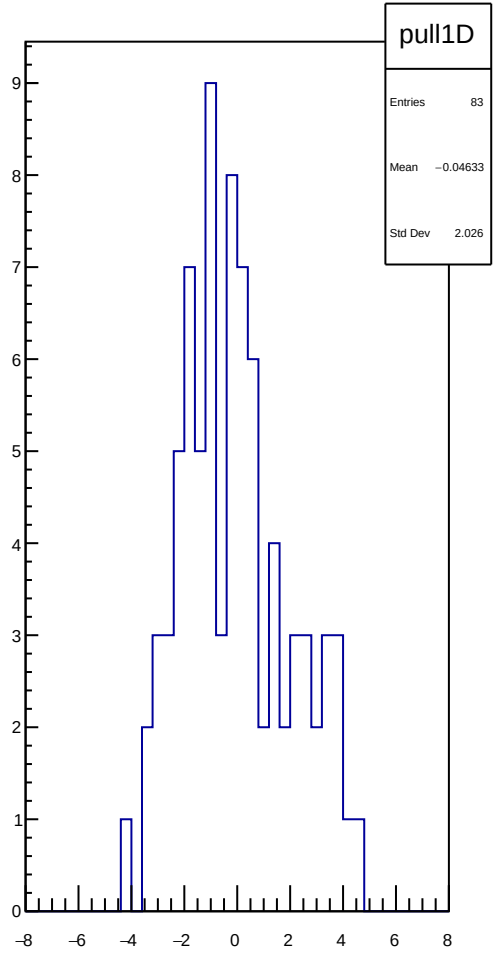

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.14 / 82
p0 −16.82 ± 1.121
pull
Entries 83
Mean 125.7
Std Dev 0

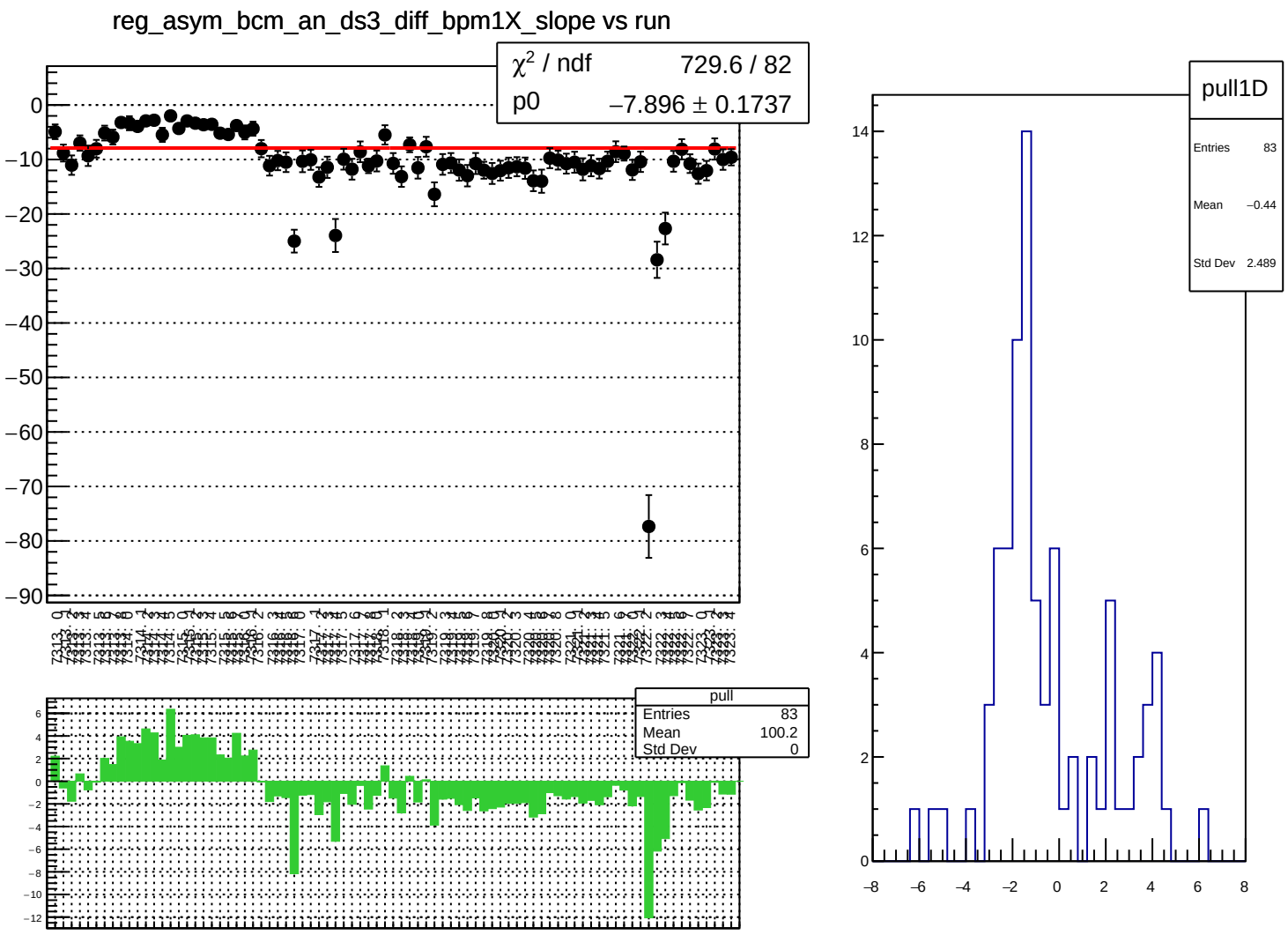

pull1D
Entries 83
Mean −0.1052
Std Dev 1.054

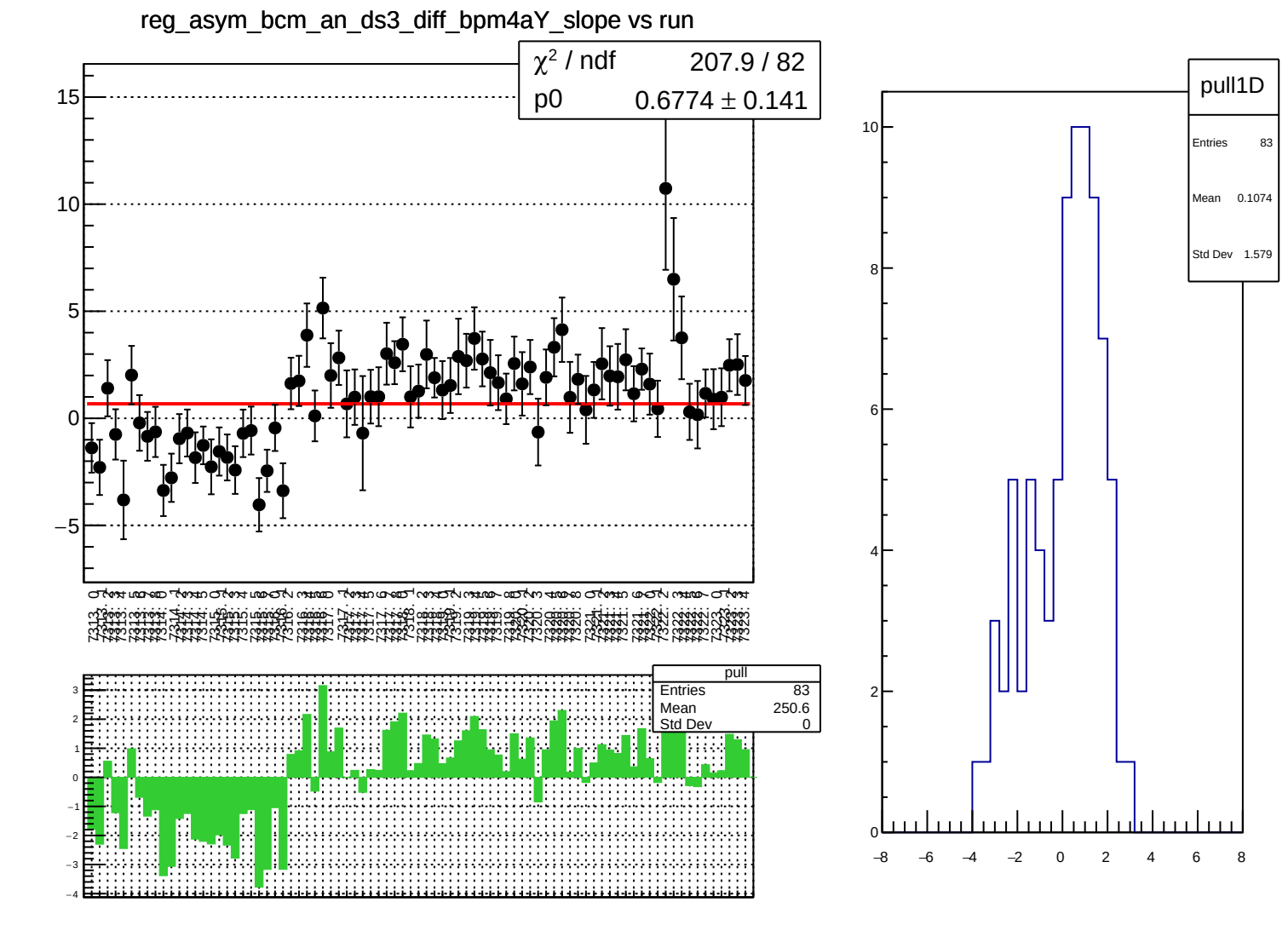

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.2 / 82
p0 2.224 ± 0.9831
pull
Entries 83
Mean 125.2
Std Dev 0

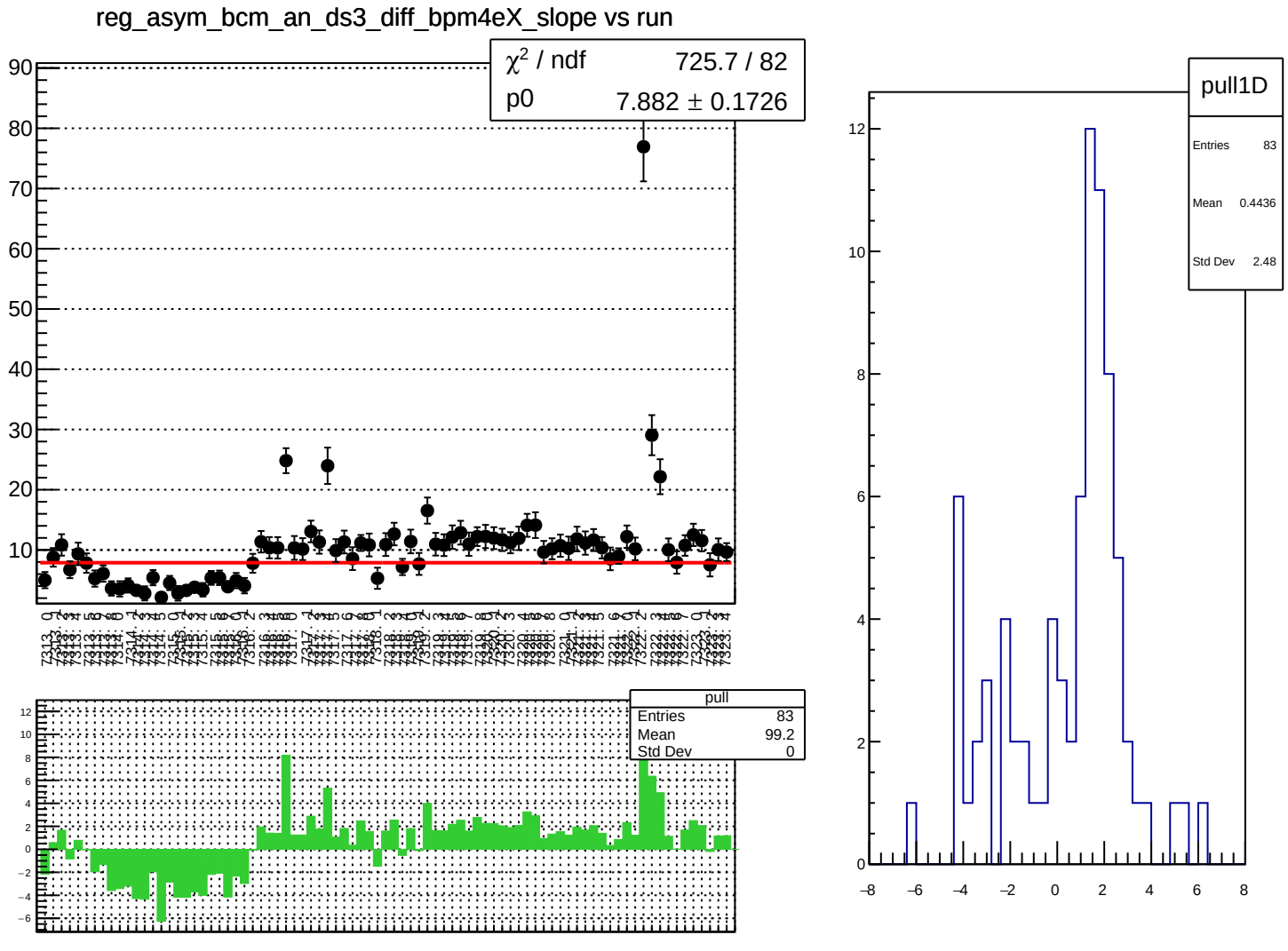

pull1D
Entries 83
Mean 0.04122
Std Dev 1.146

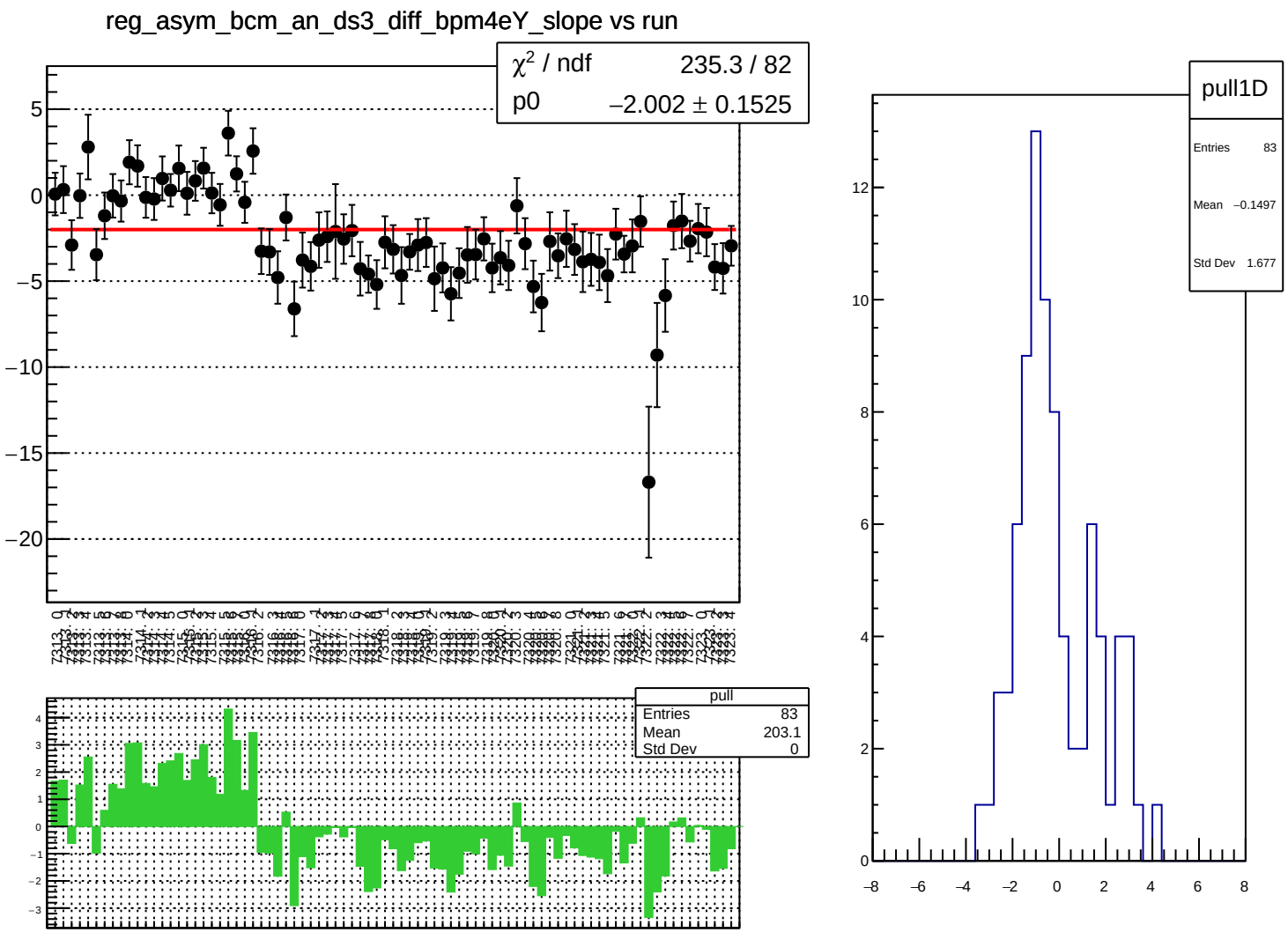

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 340.7 / 82
p0 −7.322 ± 0.04052
pull
Entries 83
Mean 374.7
Std Dev 0

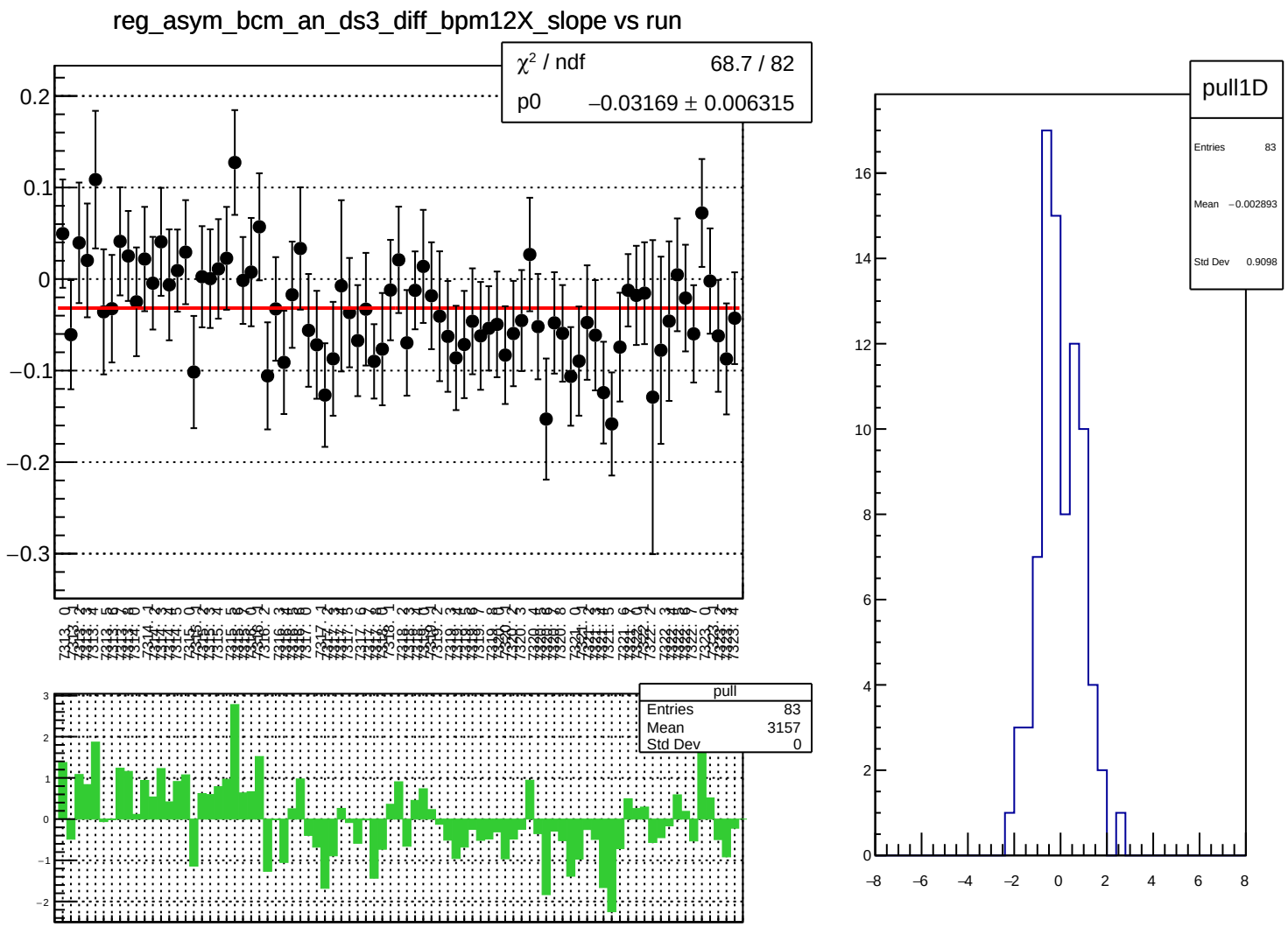

pull1D
Entries 83
Mean −0.04633
Std Dev 2.026

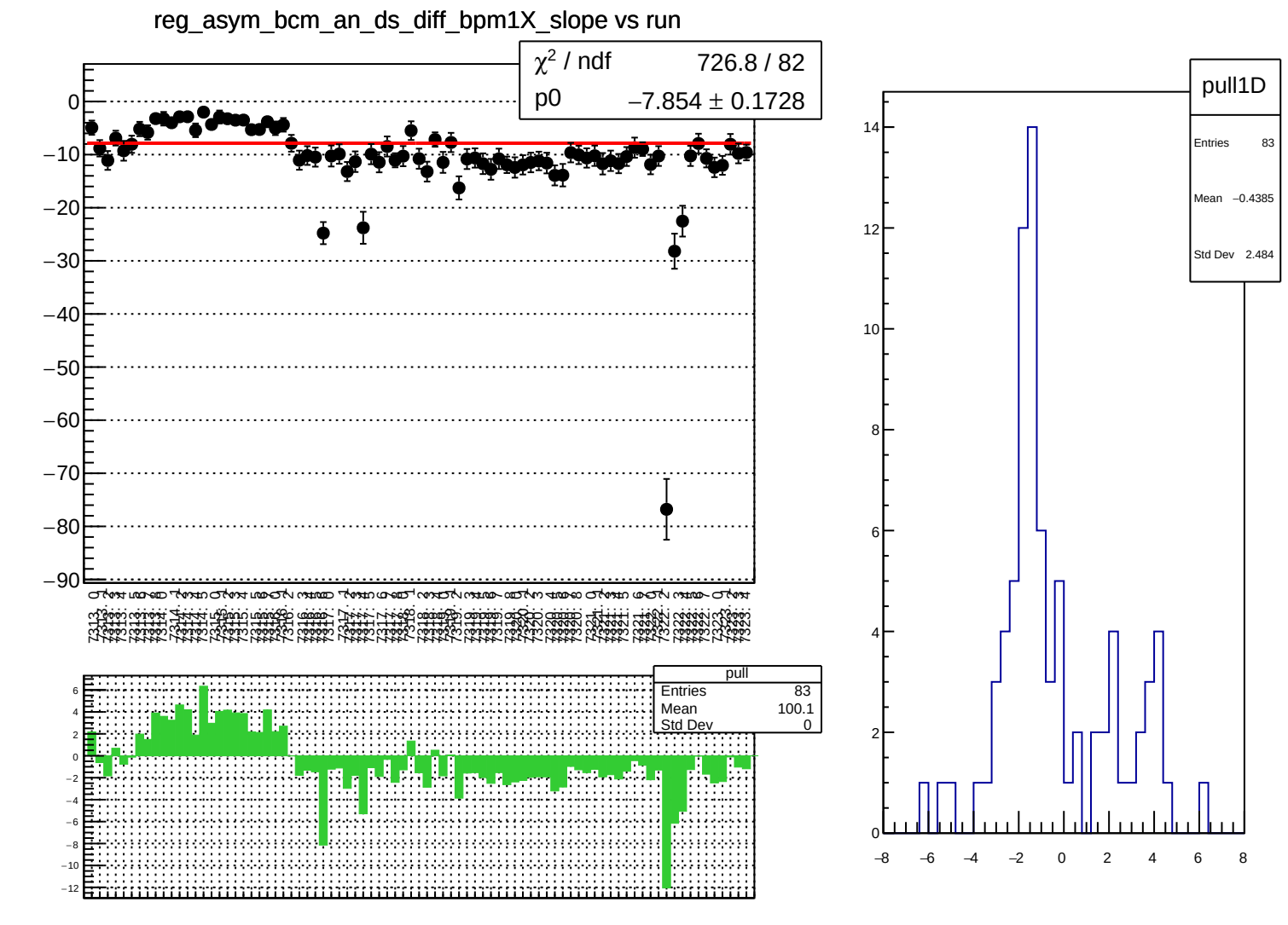

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 729.6 / 82
p0 −7.896 ± 0.1737
pull
Entries 83
Mean 100.2
Std Dev 0
pull1D
Entries 83
Mean −0.44
Std Dev 2.489

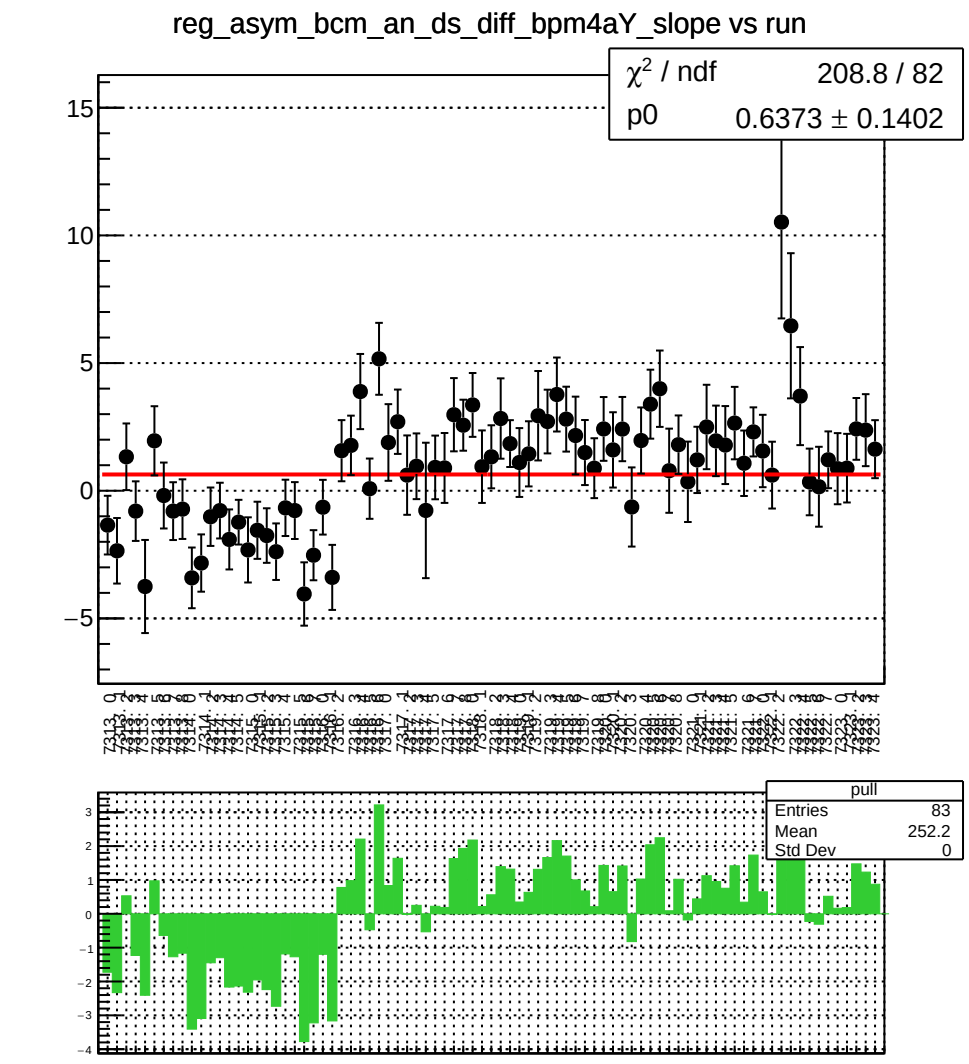

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 207.9 / 82
p0 0.6774 ± 0.141
pull
Entries 83
Mean 250.6
Std Dev 0
pull1D
Entries 83
Mean 0.1074
Std Dev 1.579

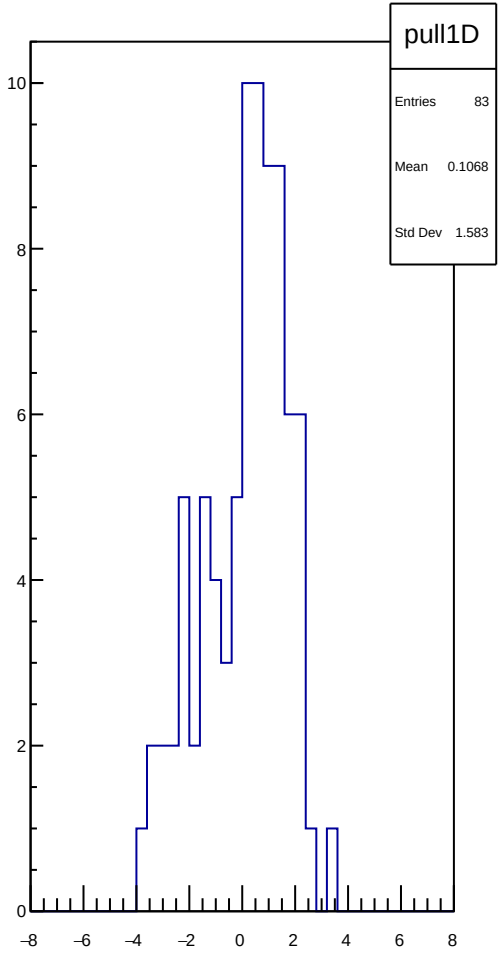

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 725.7 / 82
p0 7.882 ± 0.1726
pull
Entries 83
Mean 99.2
Std Dev 0
pull1D
Entries 83
Mean 0.4436
Std Dev 2.48

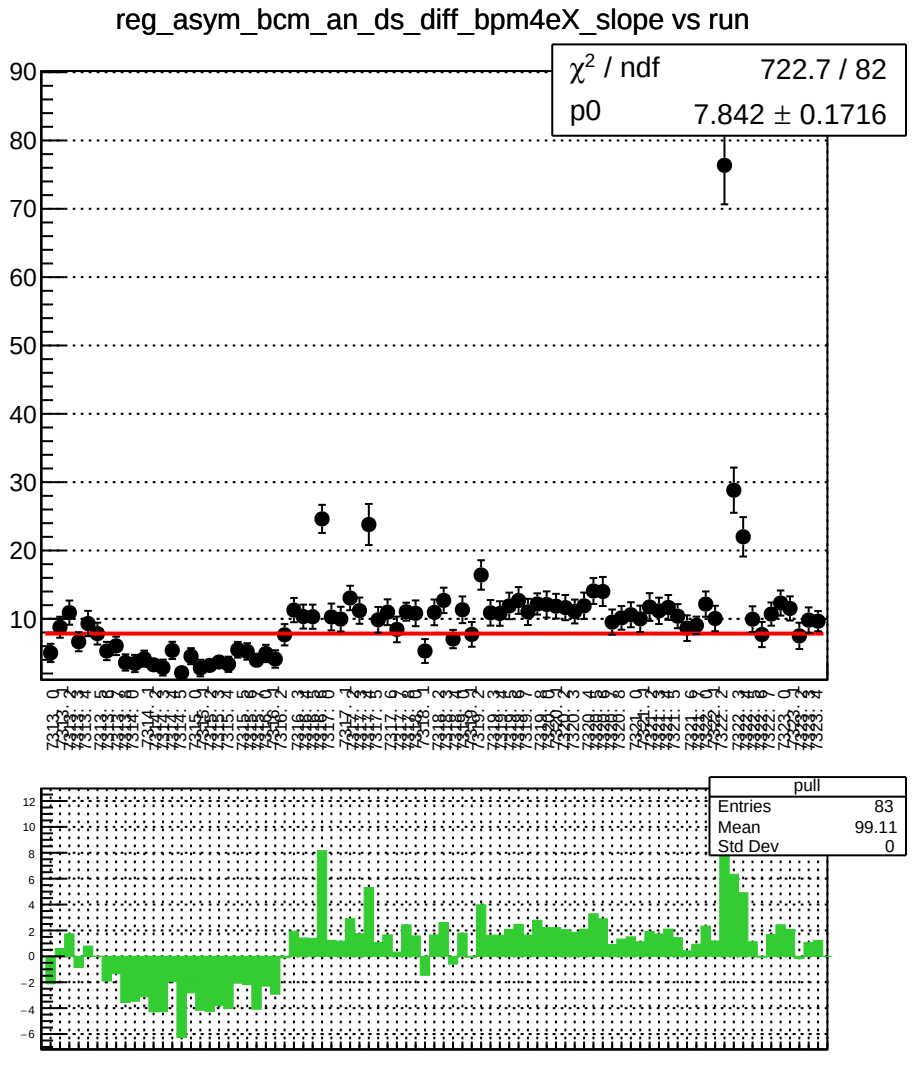

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 235.3 / 82
p0 −2.002 ± 0.1525
pull
Entries 83
Mean 203.1
Std Dev 0
pull1D
Entries 83
Mean −0.1497
Std Dev 1.677

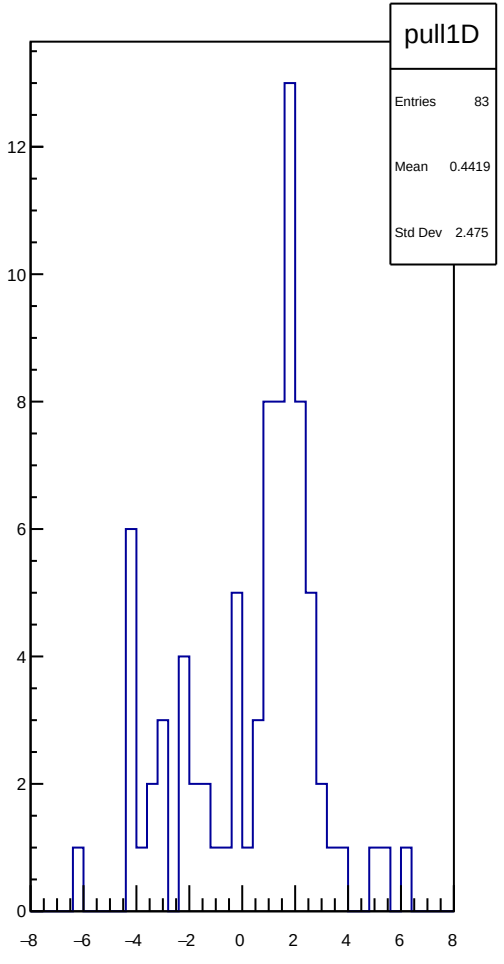

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 68.7 / 82
p0 −0.03169 ± 0.006315
pull
Entries 83
Mean 3157
Std Dev 0
pull1D
Entries 83
Mean −0.002893
Std Dev 0.9098

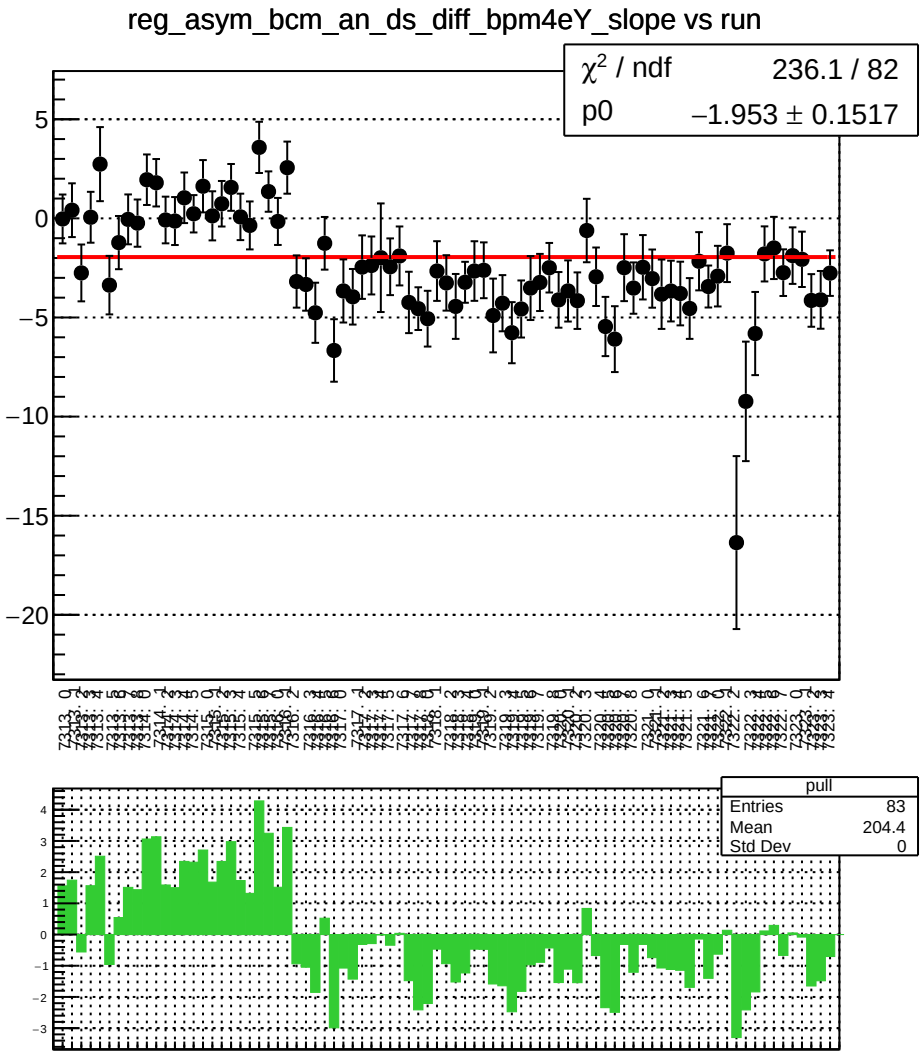

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 726.8 / 82
p0 −7.854 ± 0.1728
pull
Entries 83
Mean 100.1
Std Dev 0
pull1D
Entries 83
Mean −0.4385
Std Dev 2.484

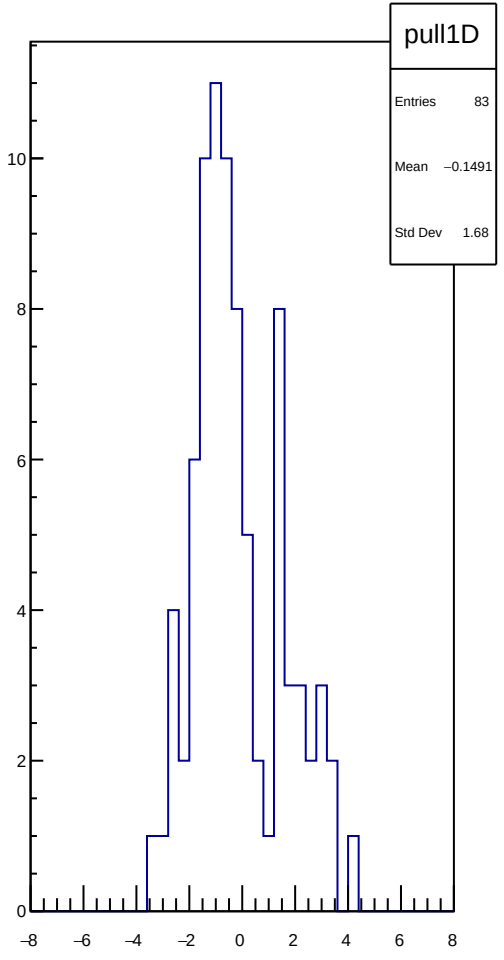

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 208.8 / 82
p0 0.6373 ± 0.1402
pull
Entries 83
Mean 252.2
Std Dev 0

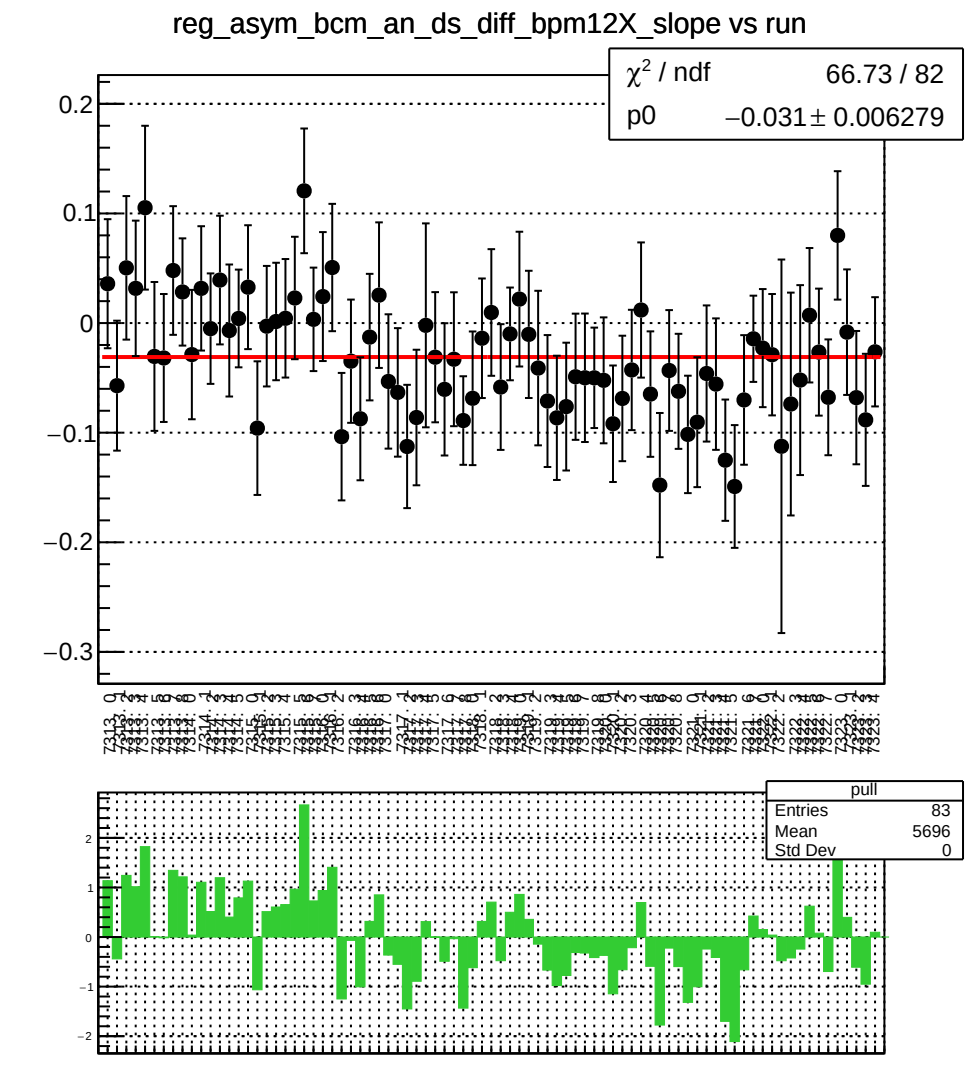

pull1D
Entries 83
Mean 0.1068
Std Dev 1.583

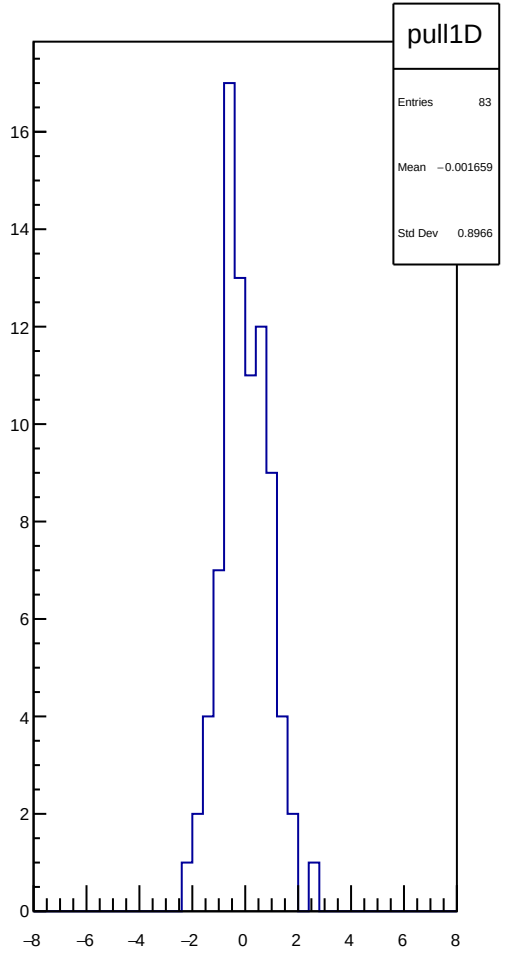

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 722.7 / 82
p0 7.842 ± 0.1716
pull
Entries 83
Mean 99.11
Std Dev 0

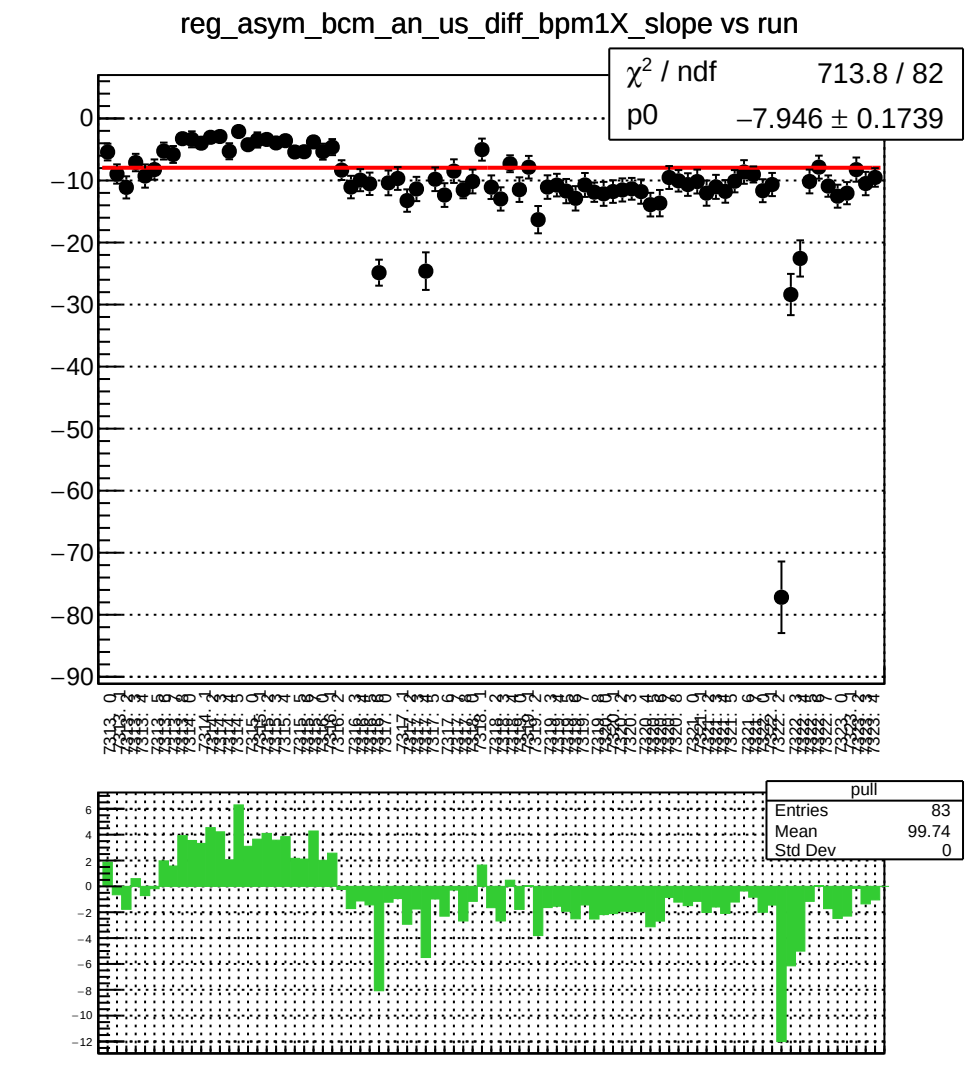

pull1D
Entries 83
Mean 0.4419
Std Dev 2.475

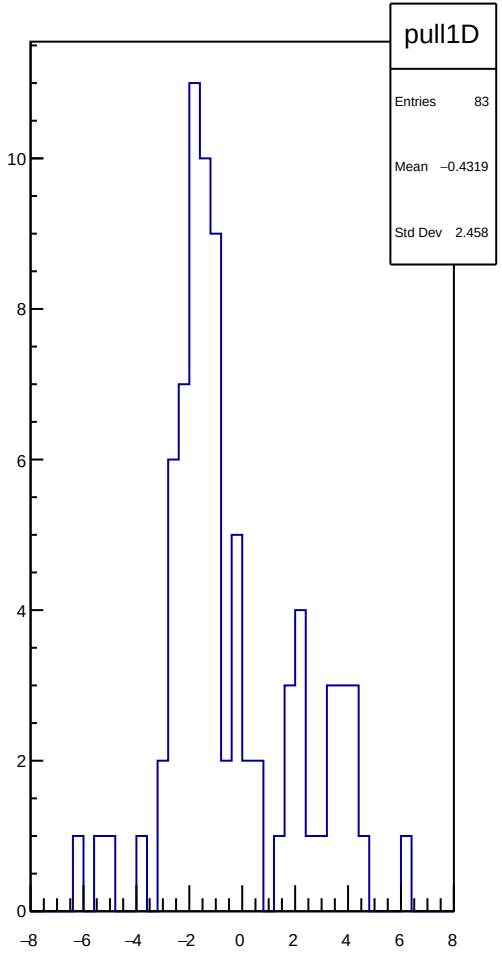

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 236.1 / 82
p0 −1.953 ± 0.1517
pull
Entries 83
Mean 204.4
Std Dev 0

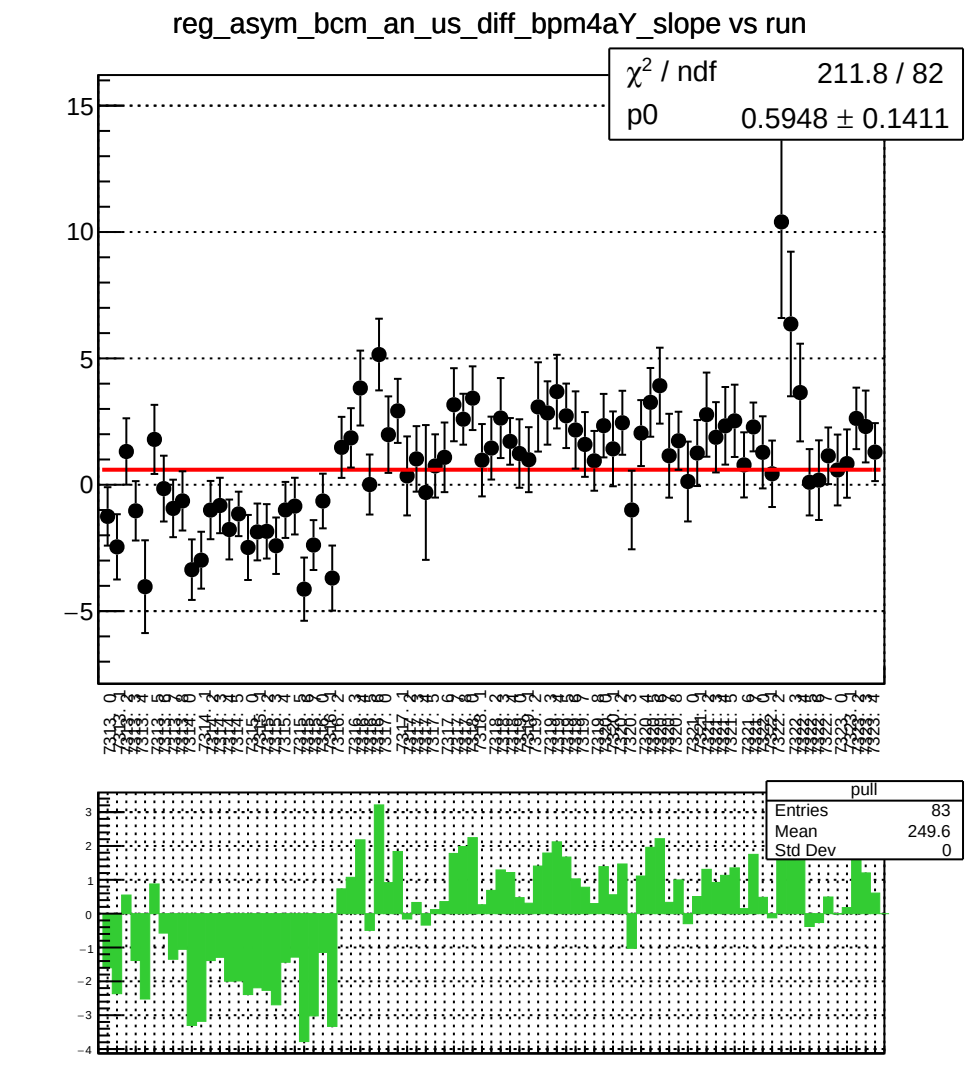

pull1D
Entries 83
Mean −0.1491
Std Dev 1.68

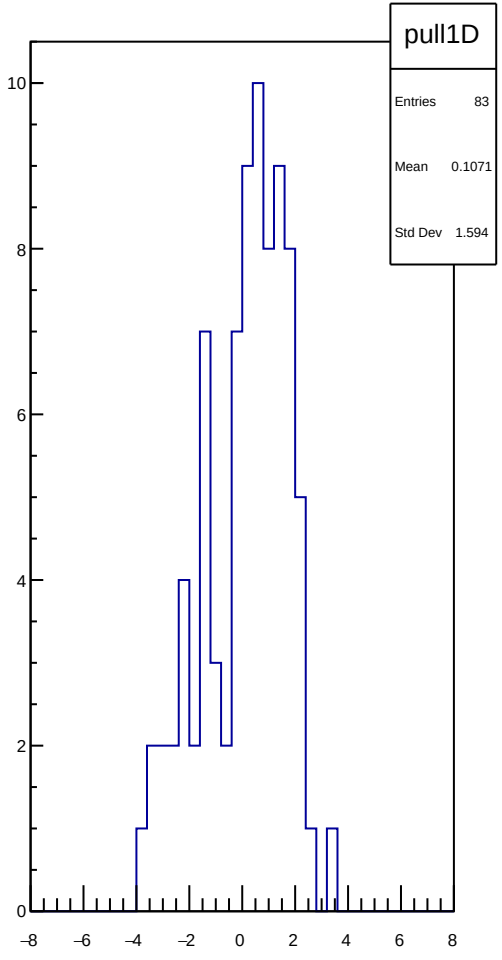

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 66.73 / 82
p0 −0.031 ± 0.006279
pull
Entries 83
Mean 5696
Std Dev 0

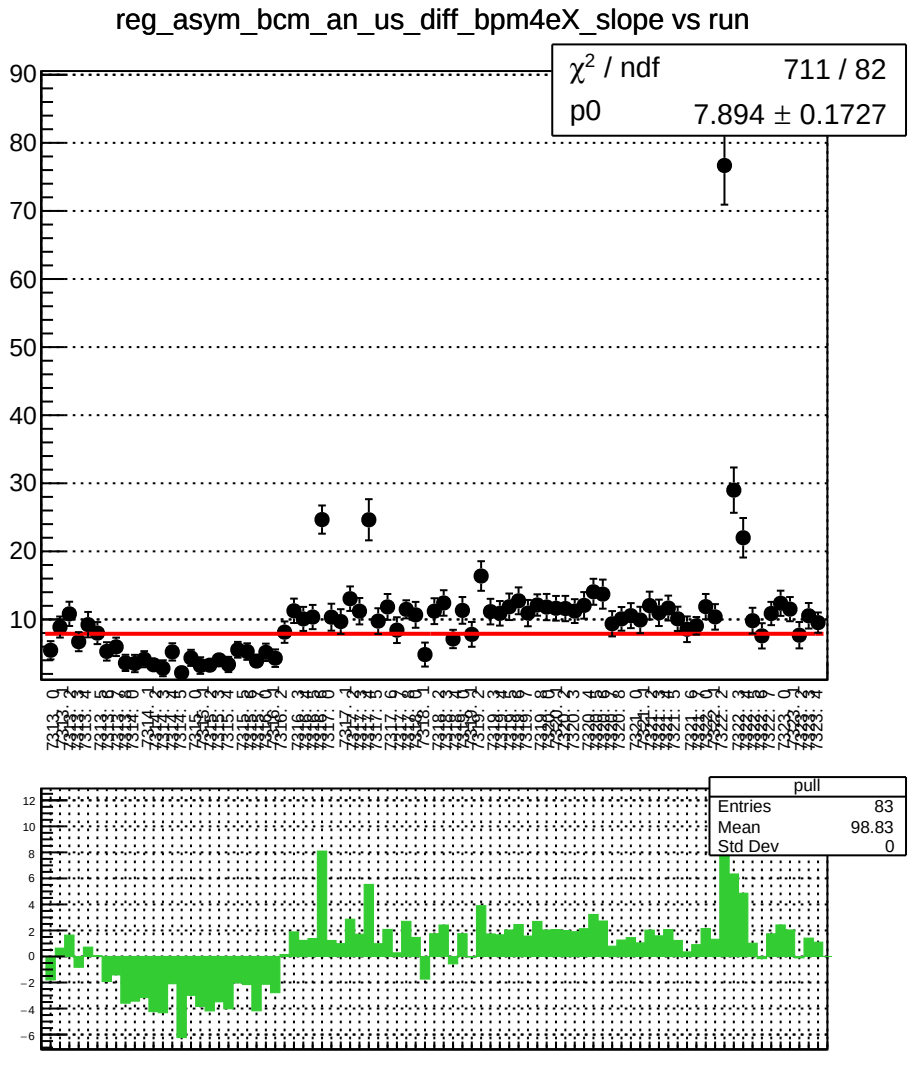

pull1D
Entries 83
Mean −0.001659
Std Dev 0.8966

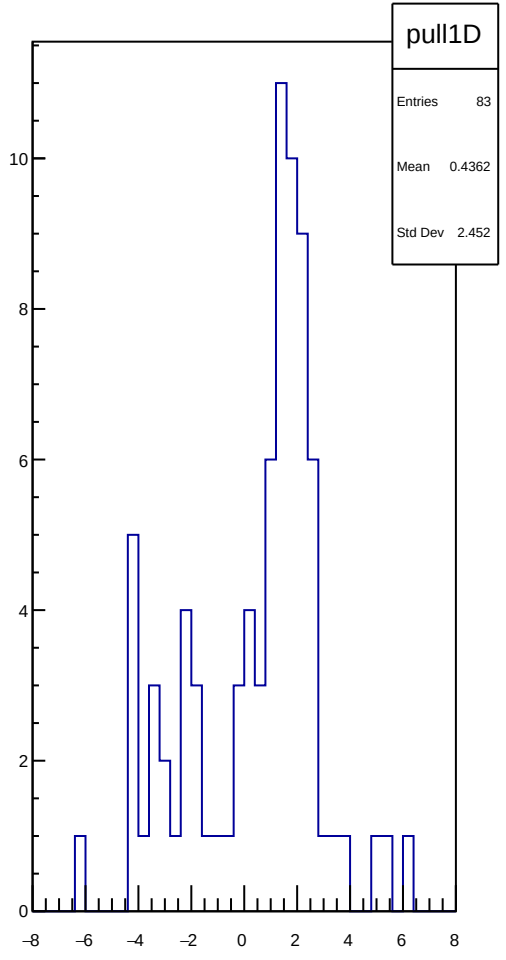

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 713.8 / 82
p0 −7.946 ± 0.1739
pull
Entries 83
Mean 99.74
Std Dev 0

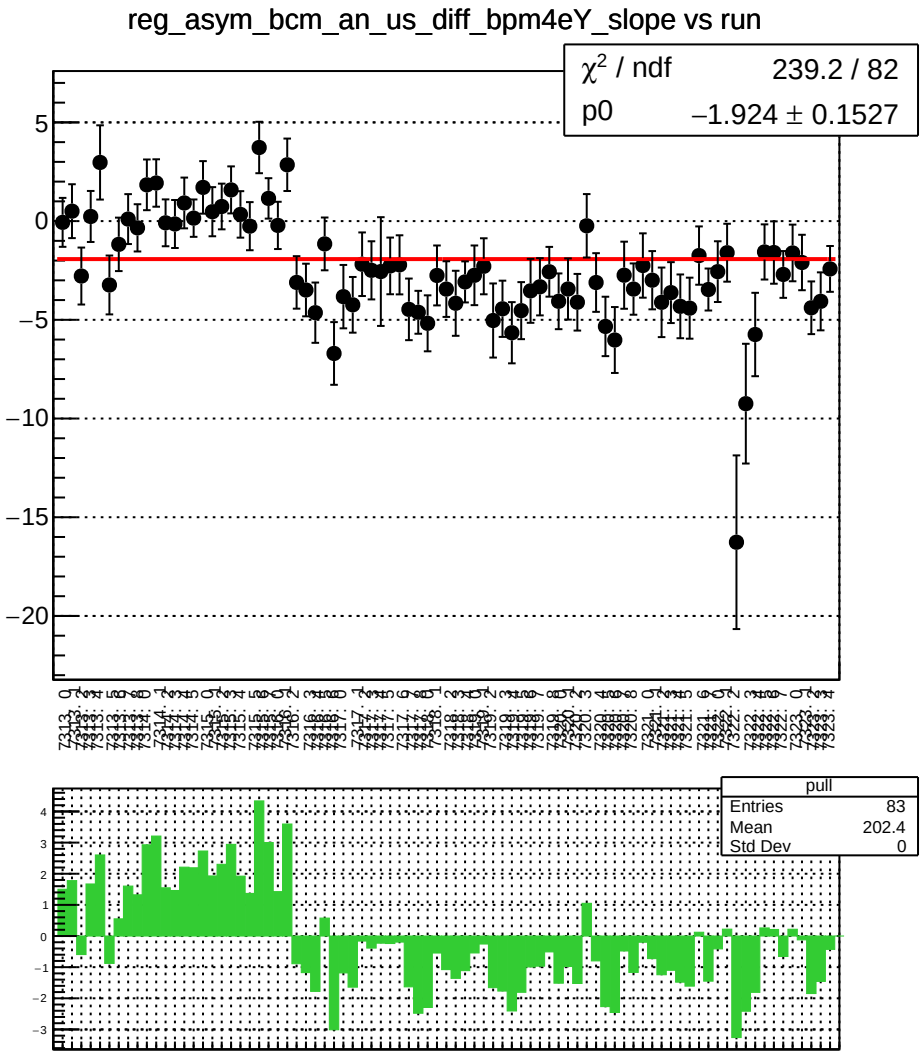

pull1D
Entries 83
Mean −0.4319
Std Dev 2.458

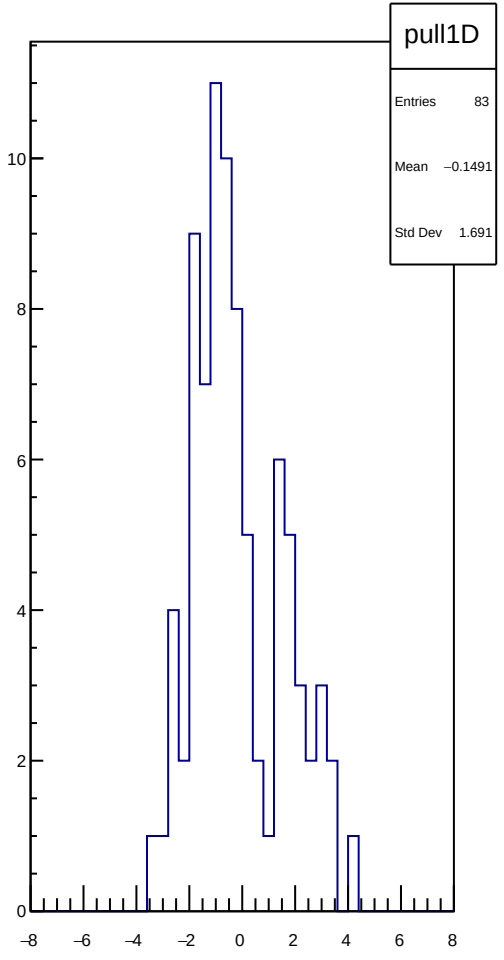

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 211.8 / 82
p0 0.5948 ± 0.1411
pull
Entries 83
Mean 249.6
Std Dev 0

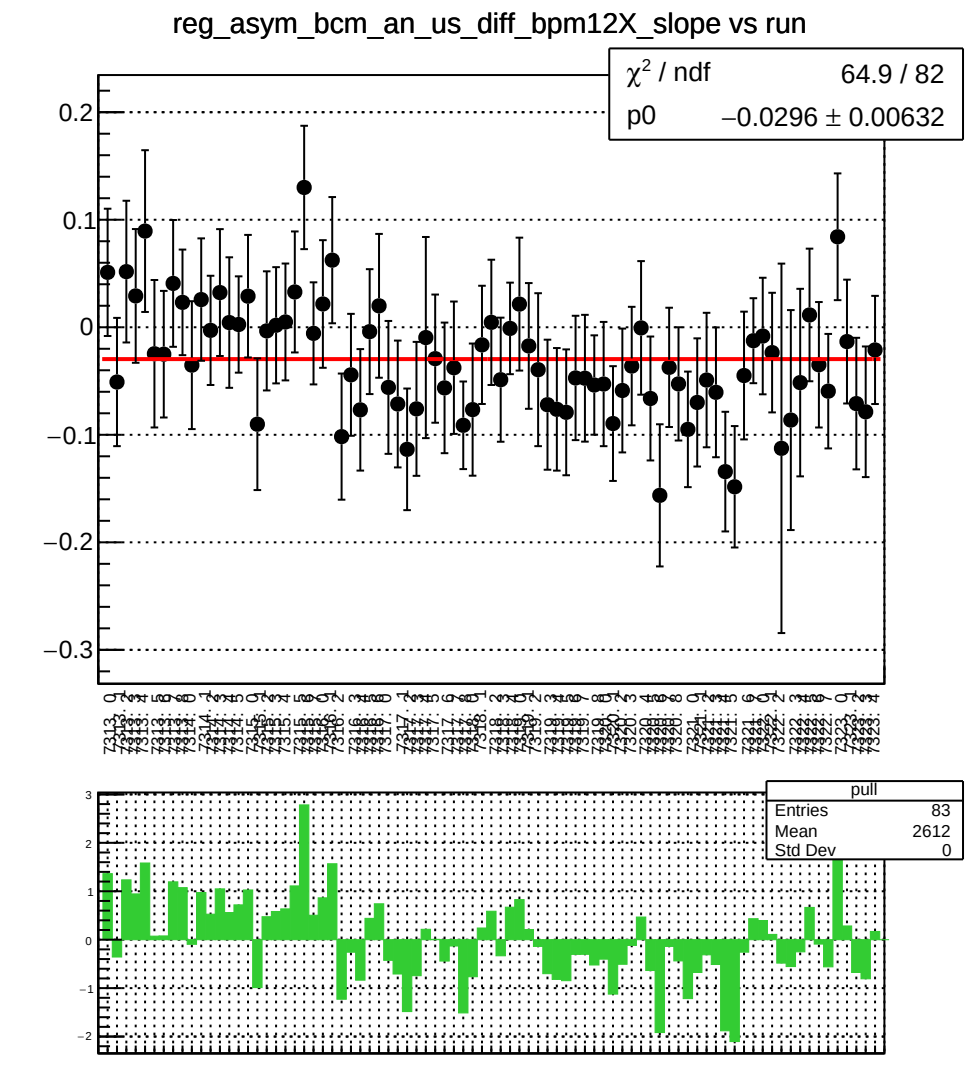

pull1D
Entries 83
Mean 0.1071
Std Dev 1.594

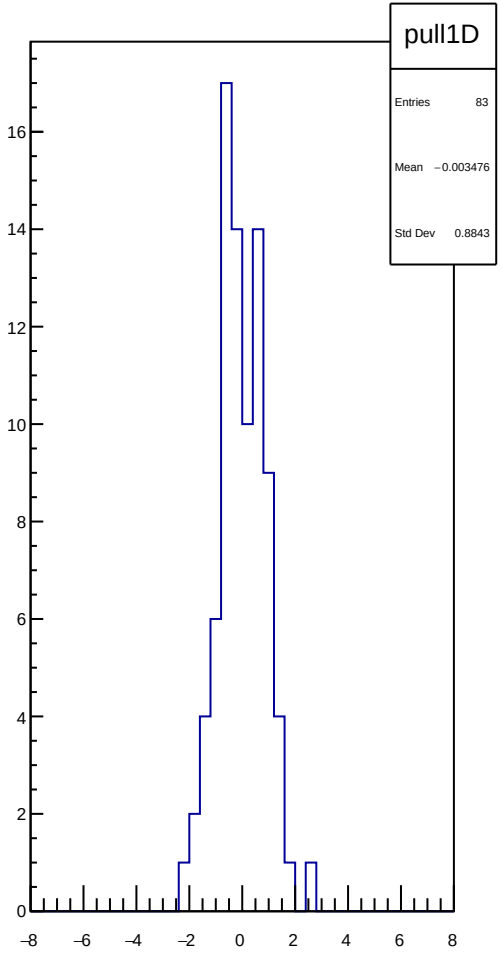

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 711 / 82
p0 7.894 ± 0.1727
pull
Entries 83
Mean 98.83
Std Dev 0

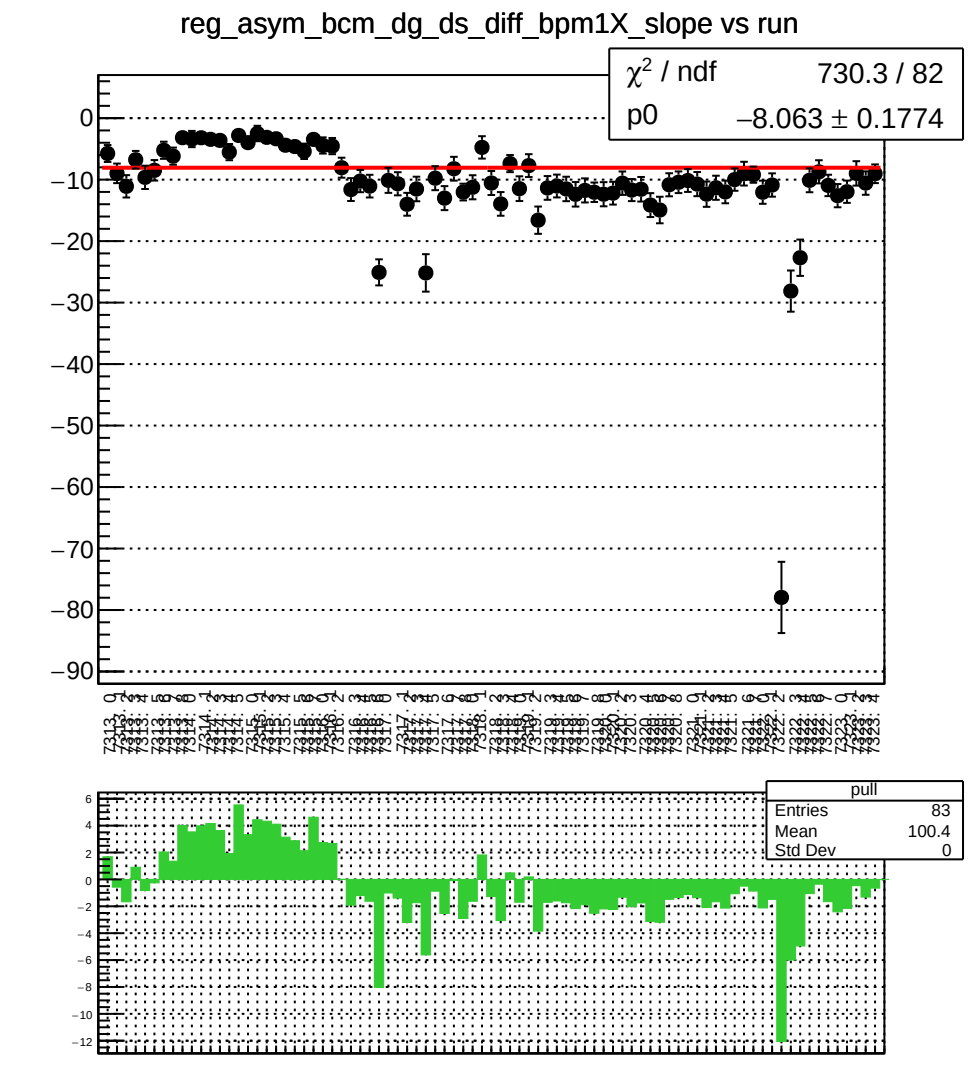

pull1D
Entries 83
Mean 0.4362
Std Dev 2.452

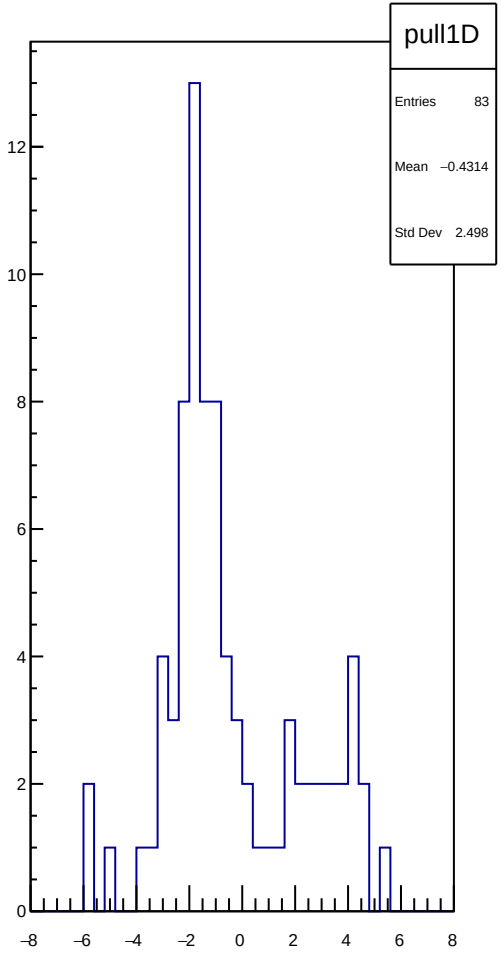

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 239.2 / 82
p0 −1.924 ± 0.1527
pull
Entries 83
Mean 202.4
Std Dev 0

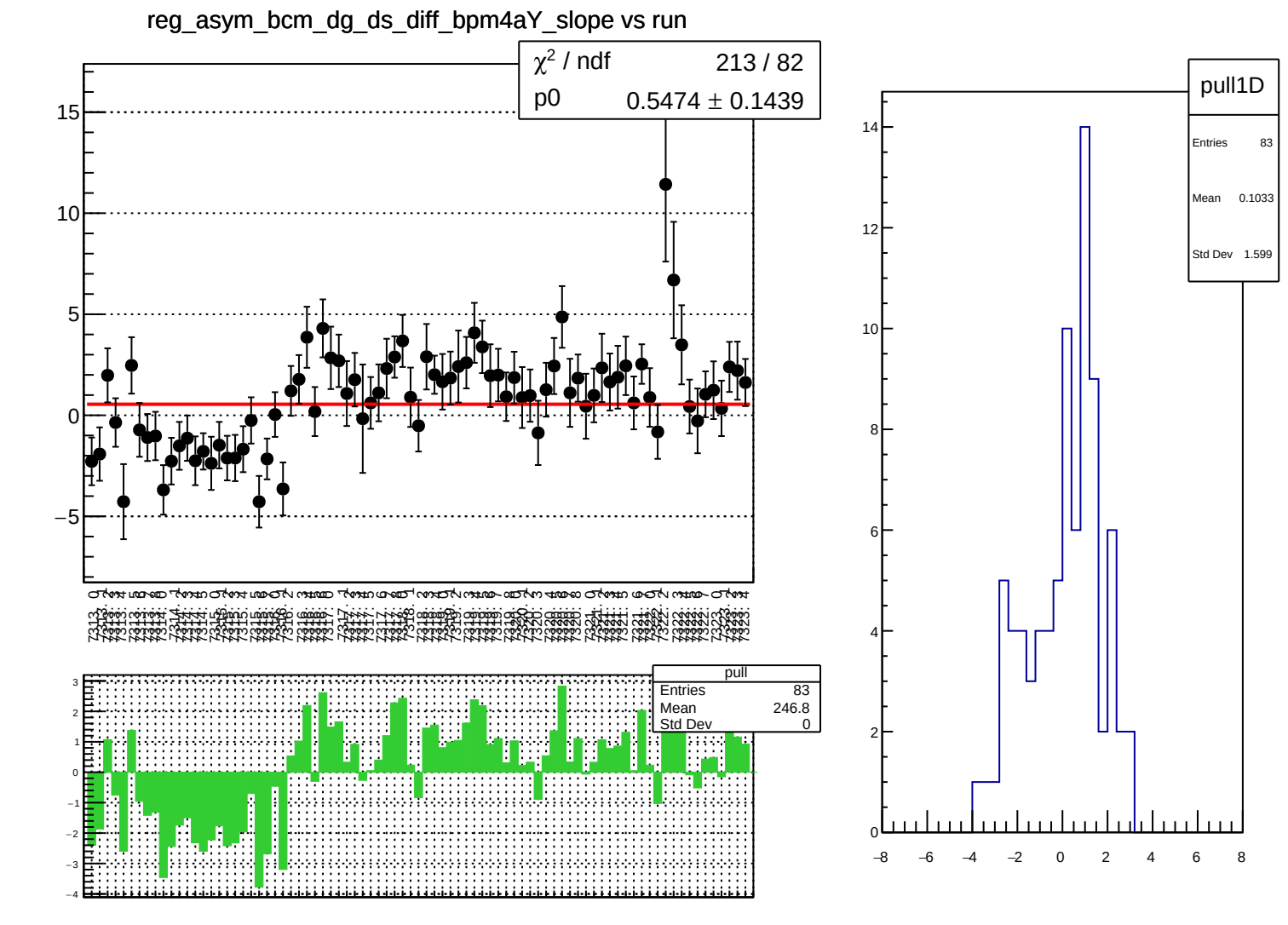

pull1D
Entries 83
Mean −0.1491
Std Dev 1.691

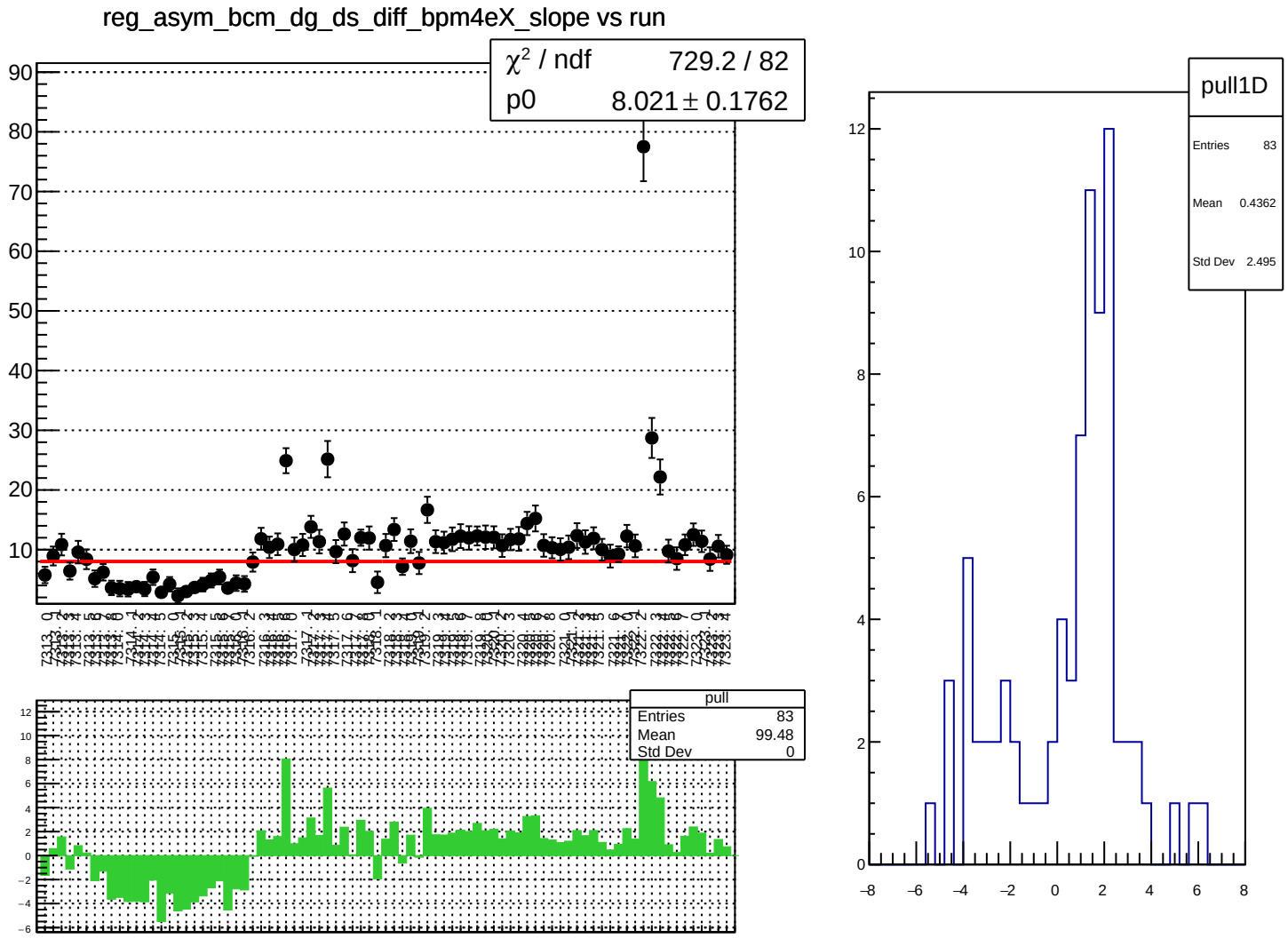

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 64.9 / 82
p0 −0.0296 ± 0.00632
pull
Entries 83
Mean 2612
Std Dev 0

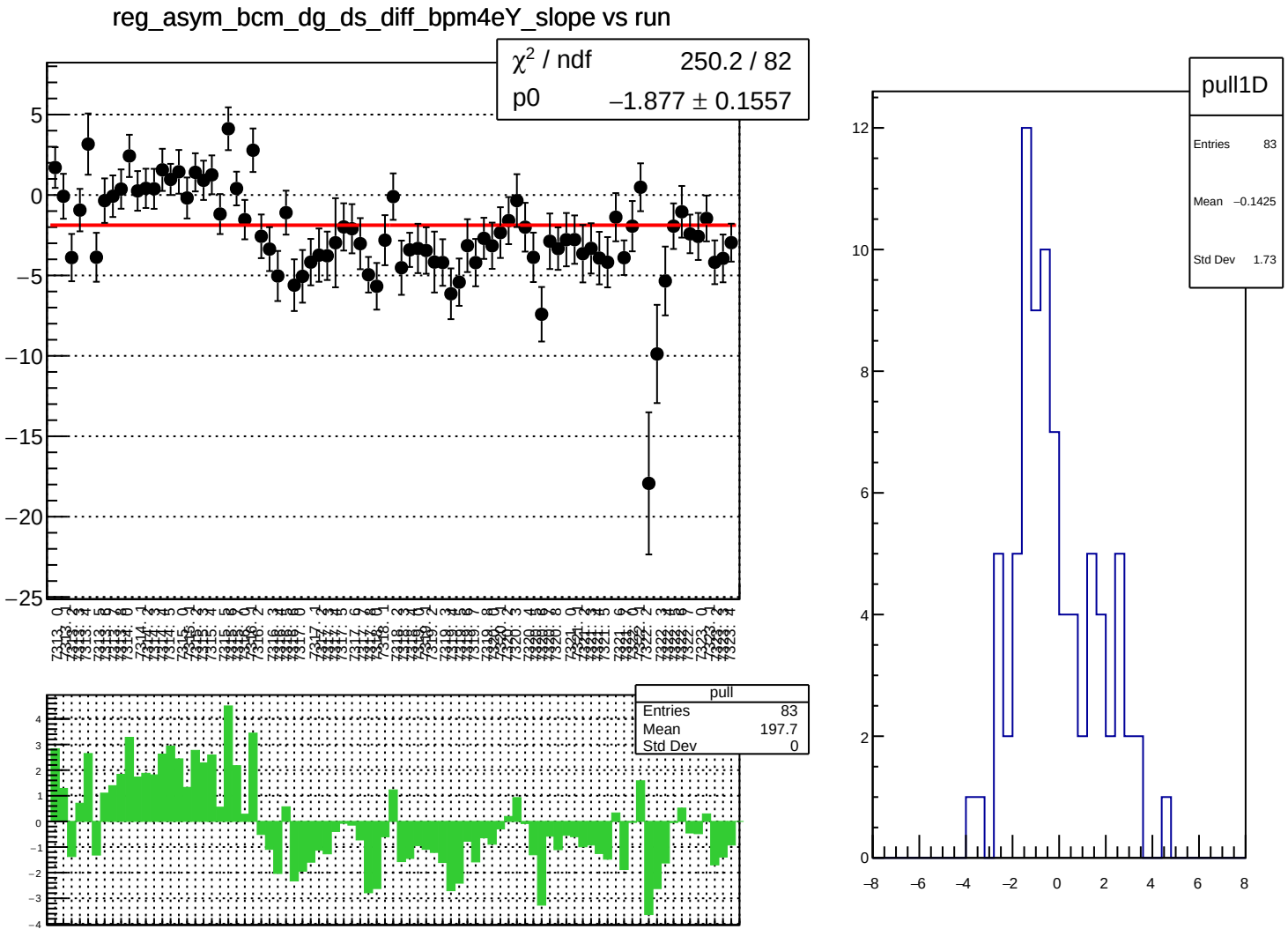

pull1D
Entries 83
Mean −0.003476
Std Dev 0.8843

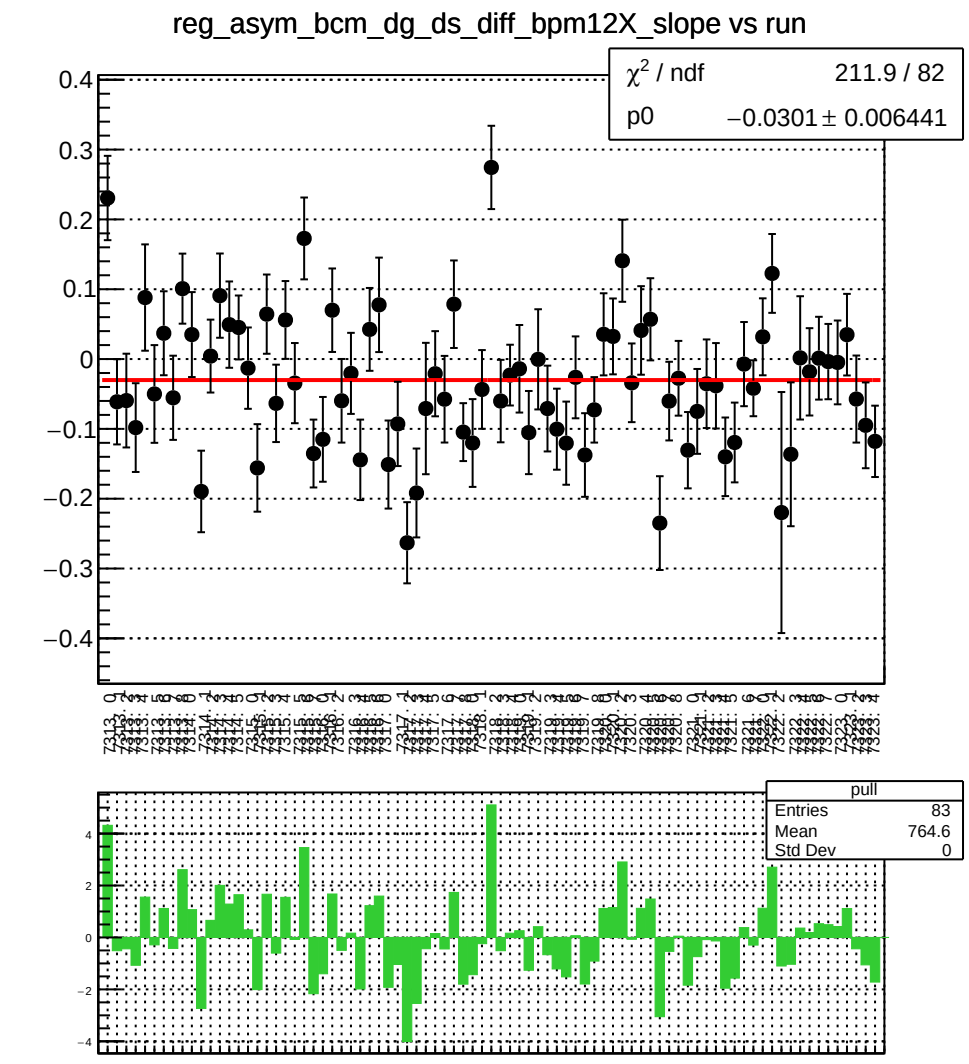

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 730.3 / 82
p0 −8.063 ± 0.1774
pull
Entries 83
Mean 100.4
Std Dev 0

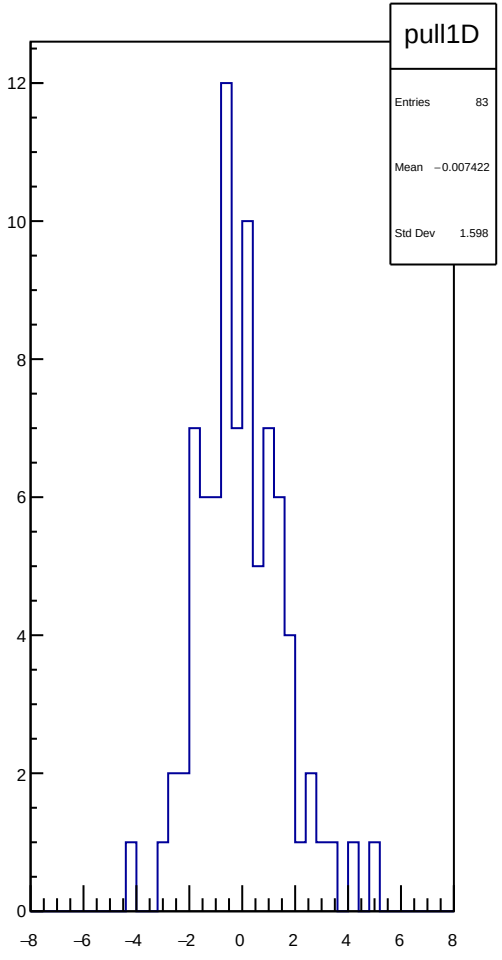

pull1D
Entries 83
Mean −0.4314
Std Dev 2.498

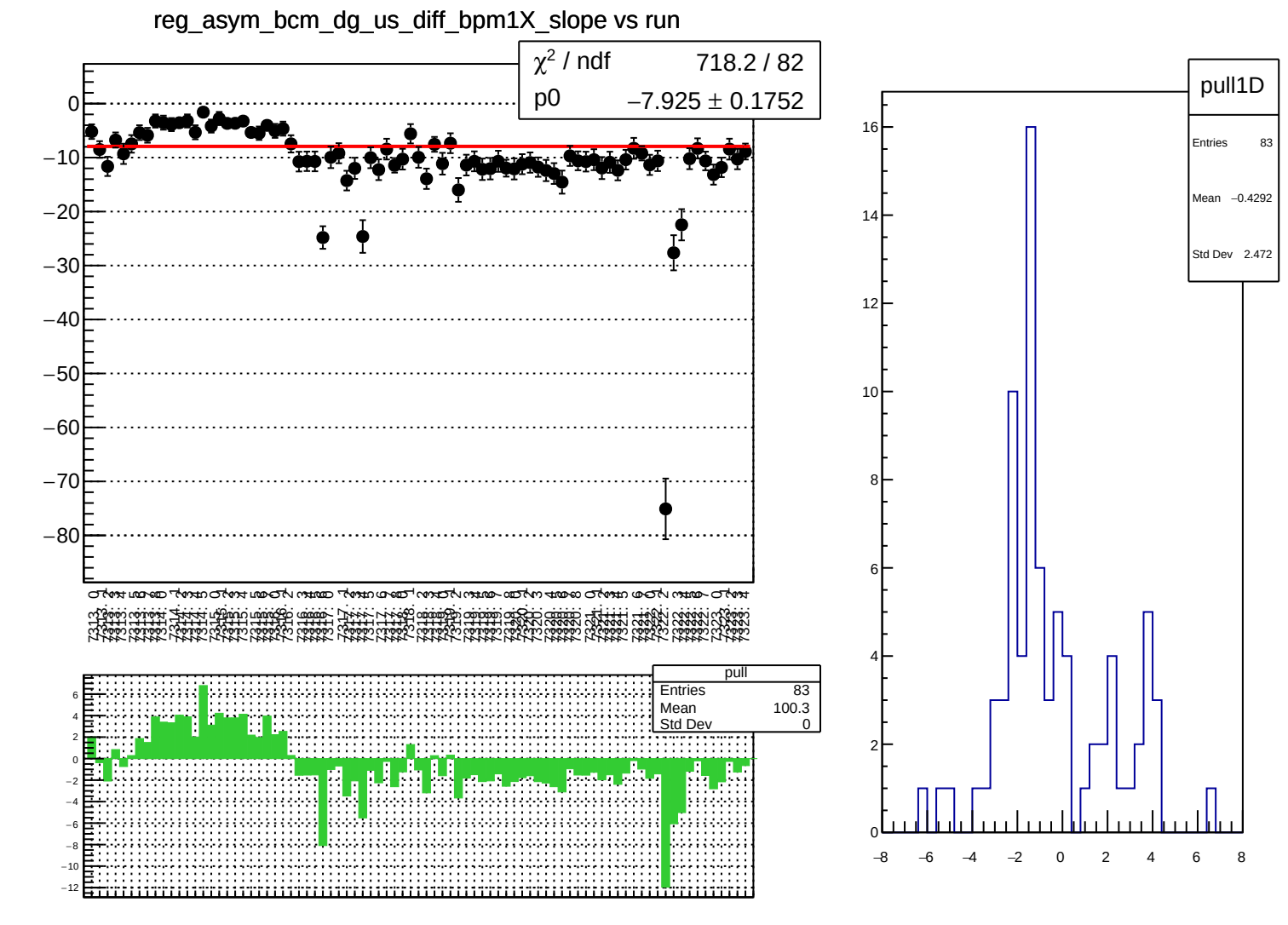

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 213 / 82
p0 0.5474 ± 0.1439
pull
Entries 83
Mean 246.8
Std Dev 0
pull1D
Entries 83
Mean 0.1033
Std Dev 1.599

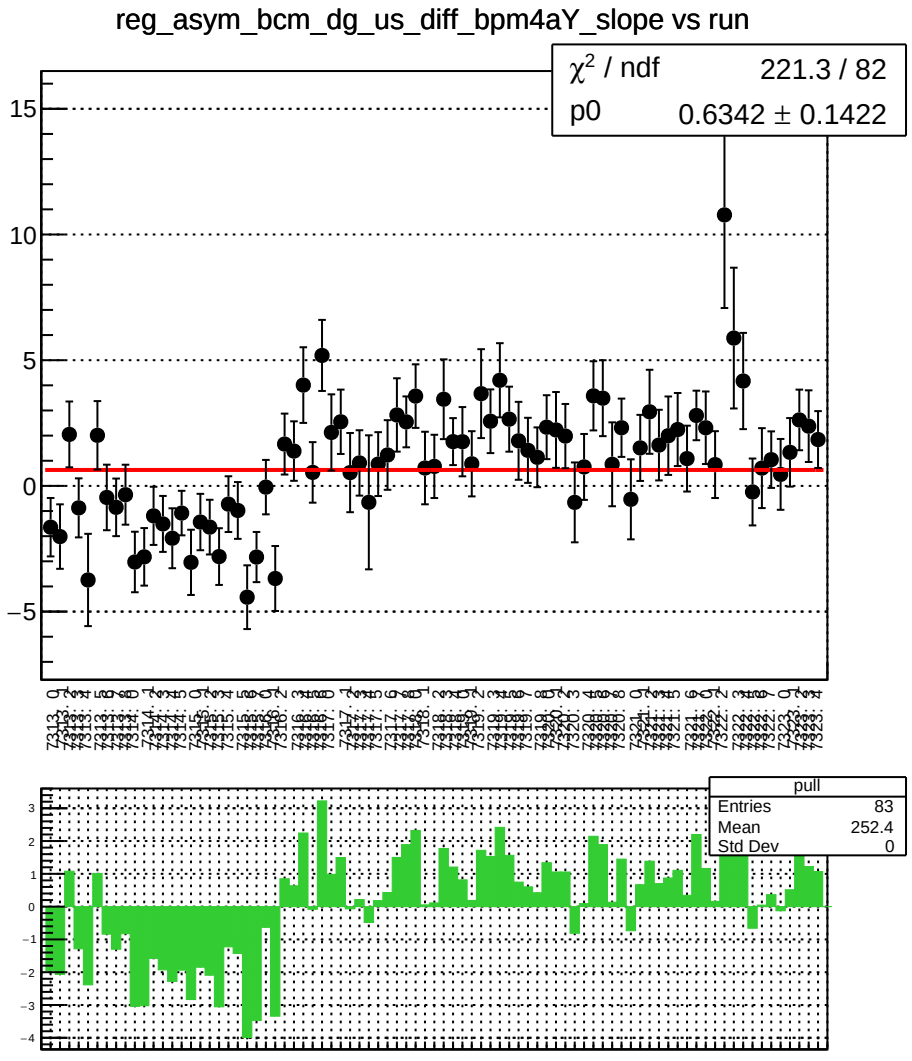

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 729.2 / 82
p0 8.021 ± 0.1762
pull
Entries 83
Mean 99.48
Std Dev 0
pull1D
Entries 83
Mean 0.4362
Std Dev 2.495

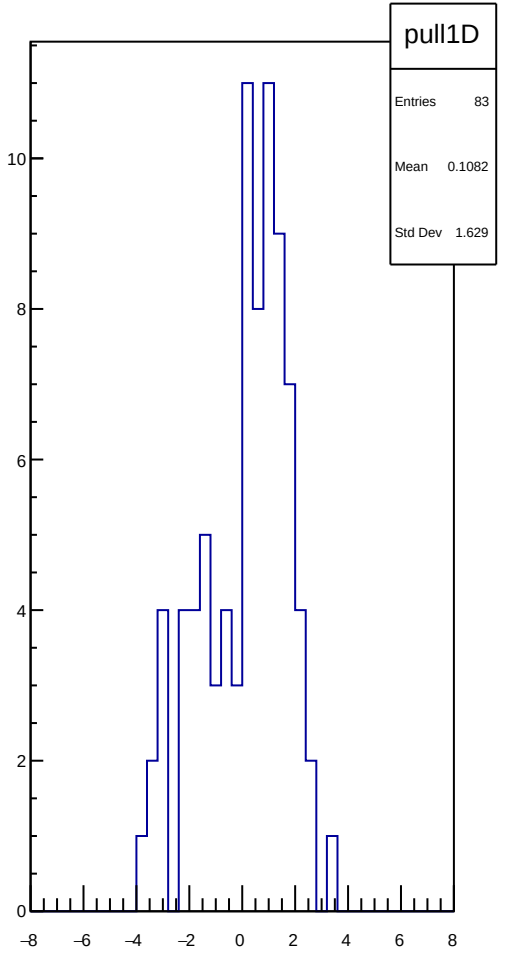

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 250.2 / 82
p0 −1.877 ± 0.1557
pull
Entries 83
Mean 197.7
Std Dev 0
pull1D
Entries 83
Mean −0.1425
Std Dev 1.73

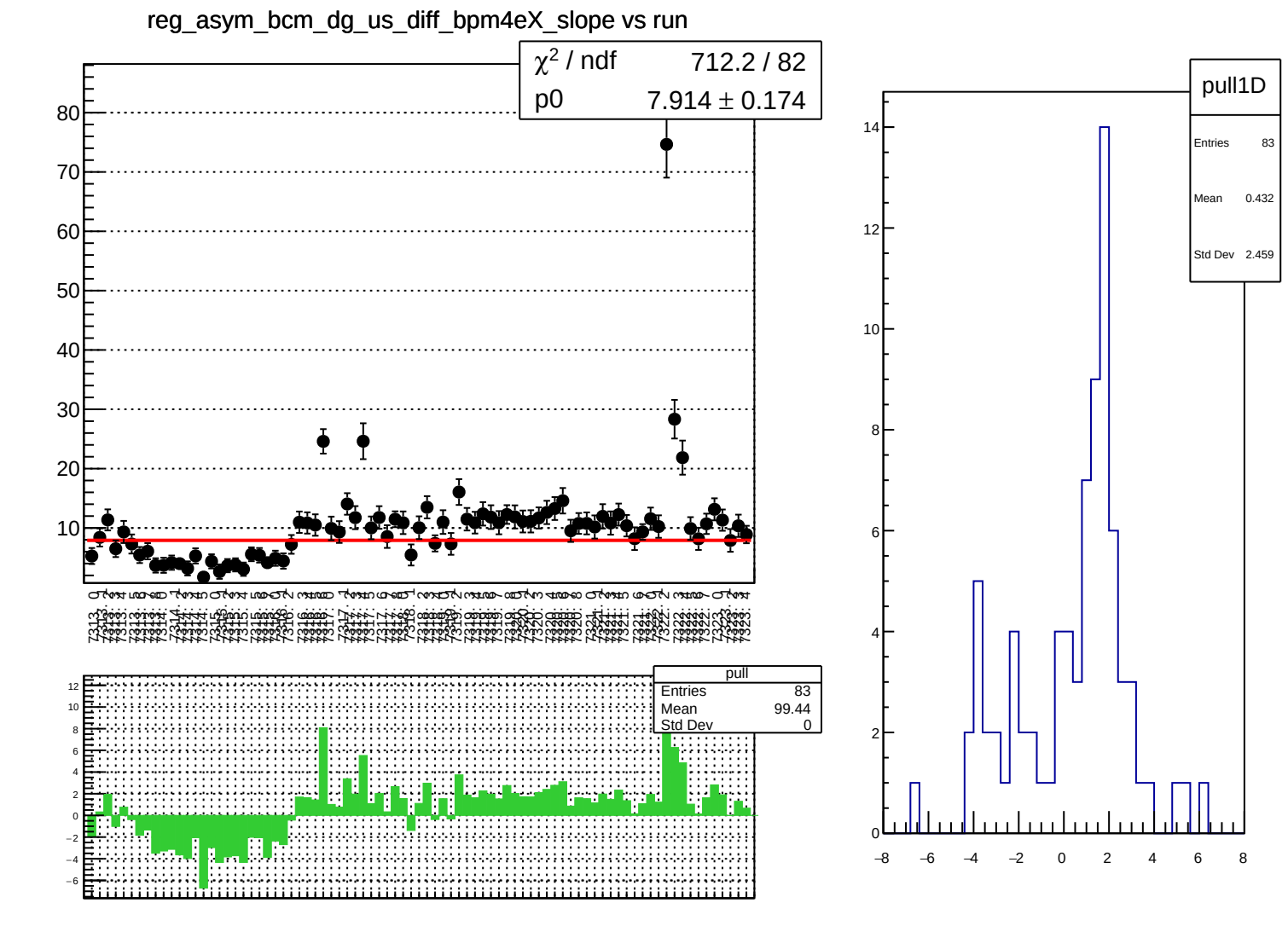

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 211.9 / 82
p0 −0.0301 ± 0.006441
pull
Entries 83
Mean 764.6
Std Dev 0

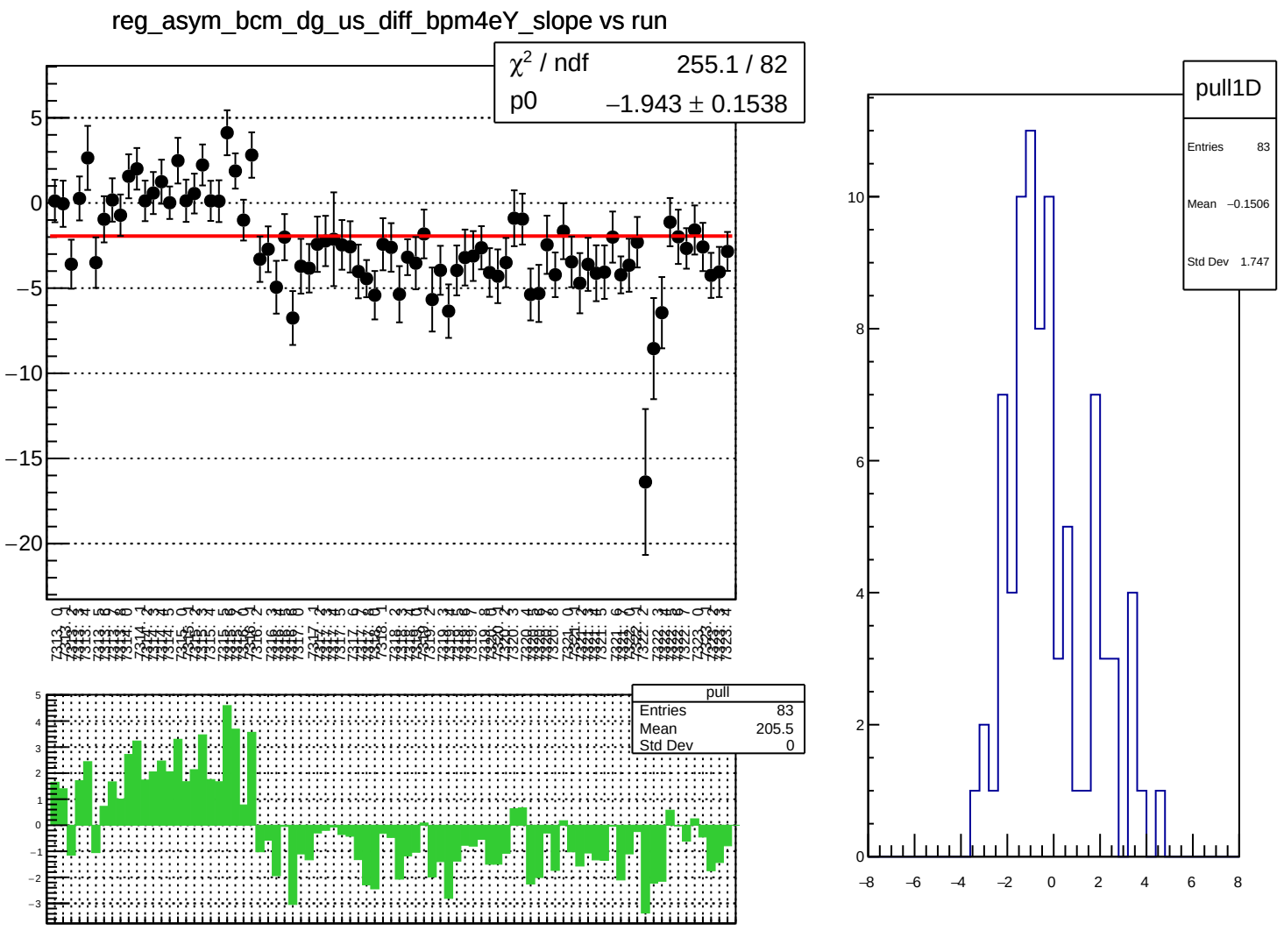

pull1D
Entries 83
Mean −0.007422
Std Dev 1.598

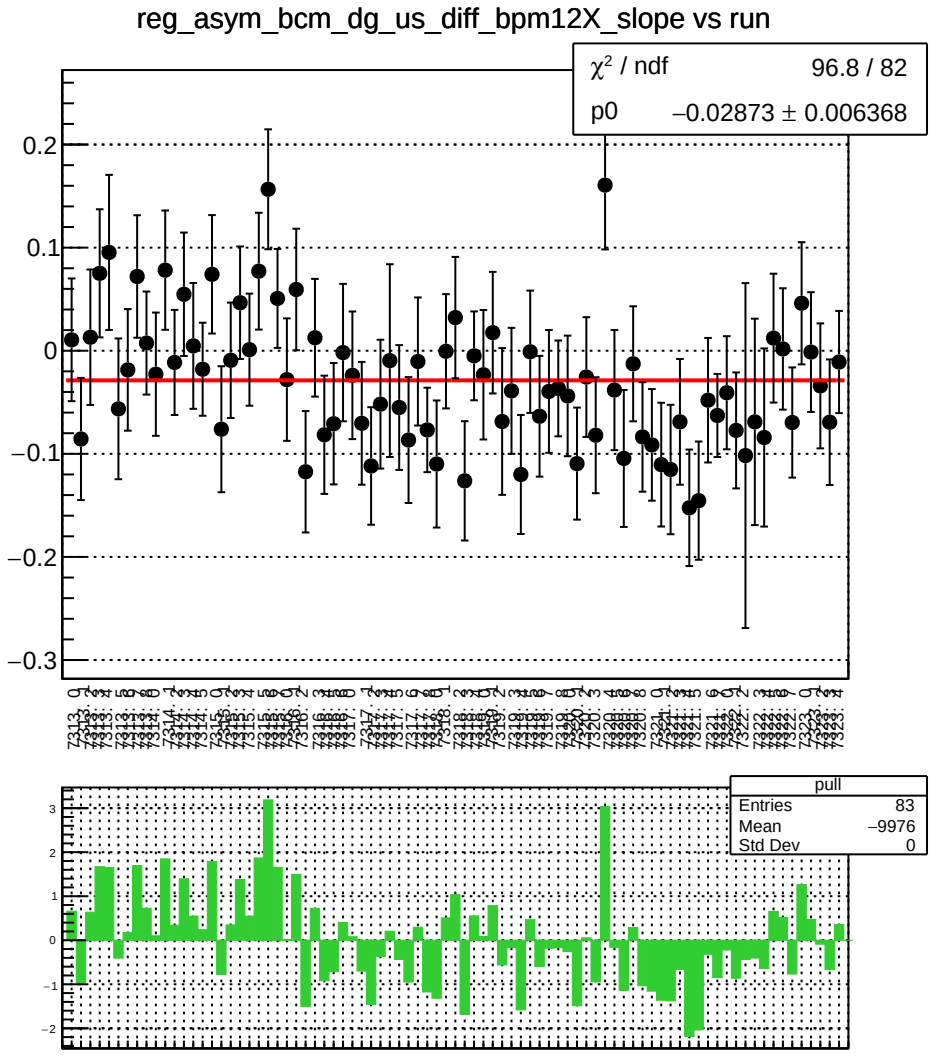

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 718.2 / 82
p0 −7.925 ± 0.1752
pull
Entries 83
Mean 100.3
Std Dev 0
pull1D
Entries 83
Mean −0.4292
Std Dev 2.472

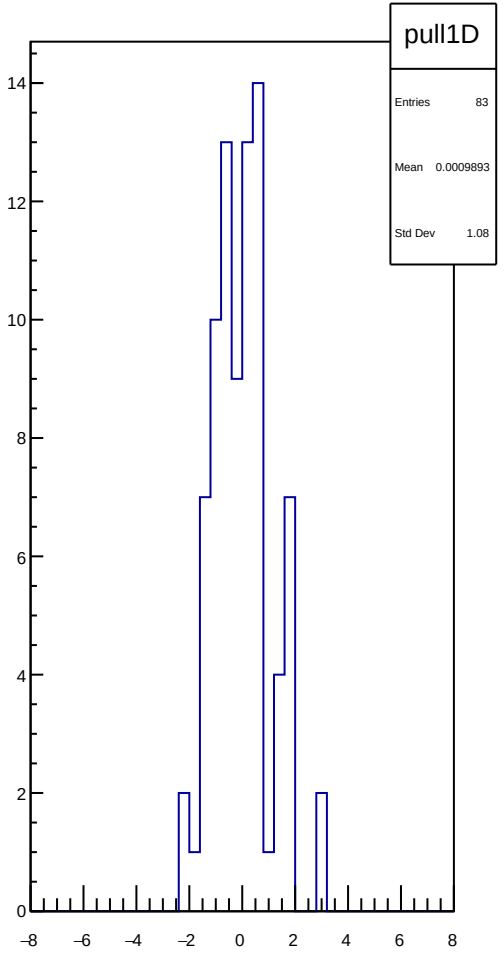

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 221.3 / 82
p0 0.6342 ± 0.1422
pull
Entries 83
Mean 252.4
Std Dev 0

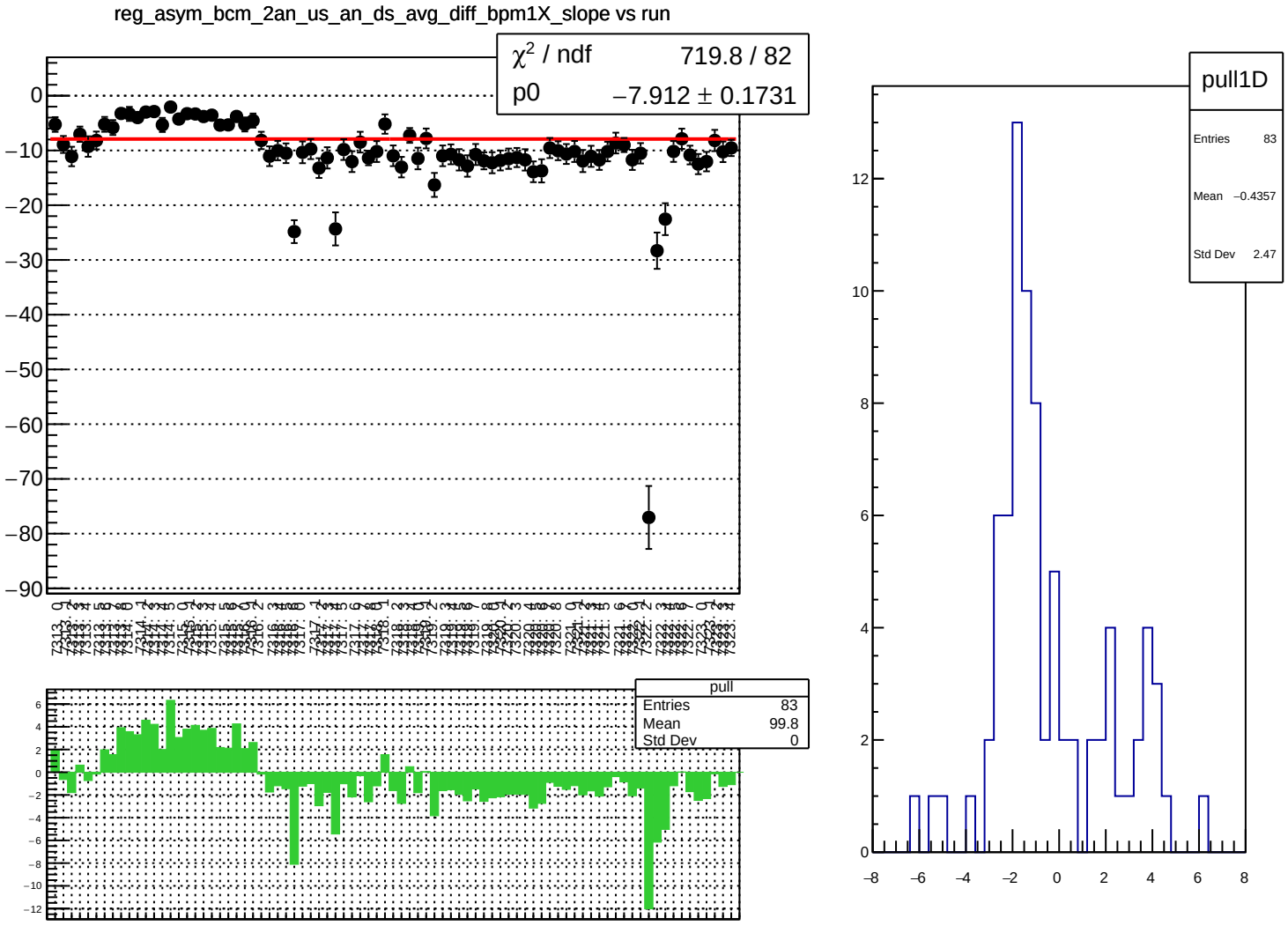

pull1D
Entries 83
Mean 0.1082
Std Dev 1.629

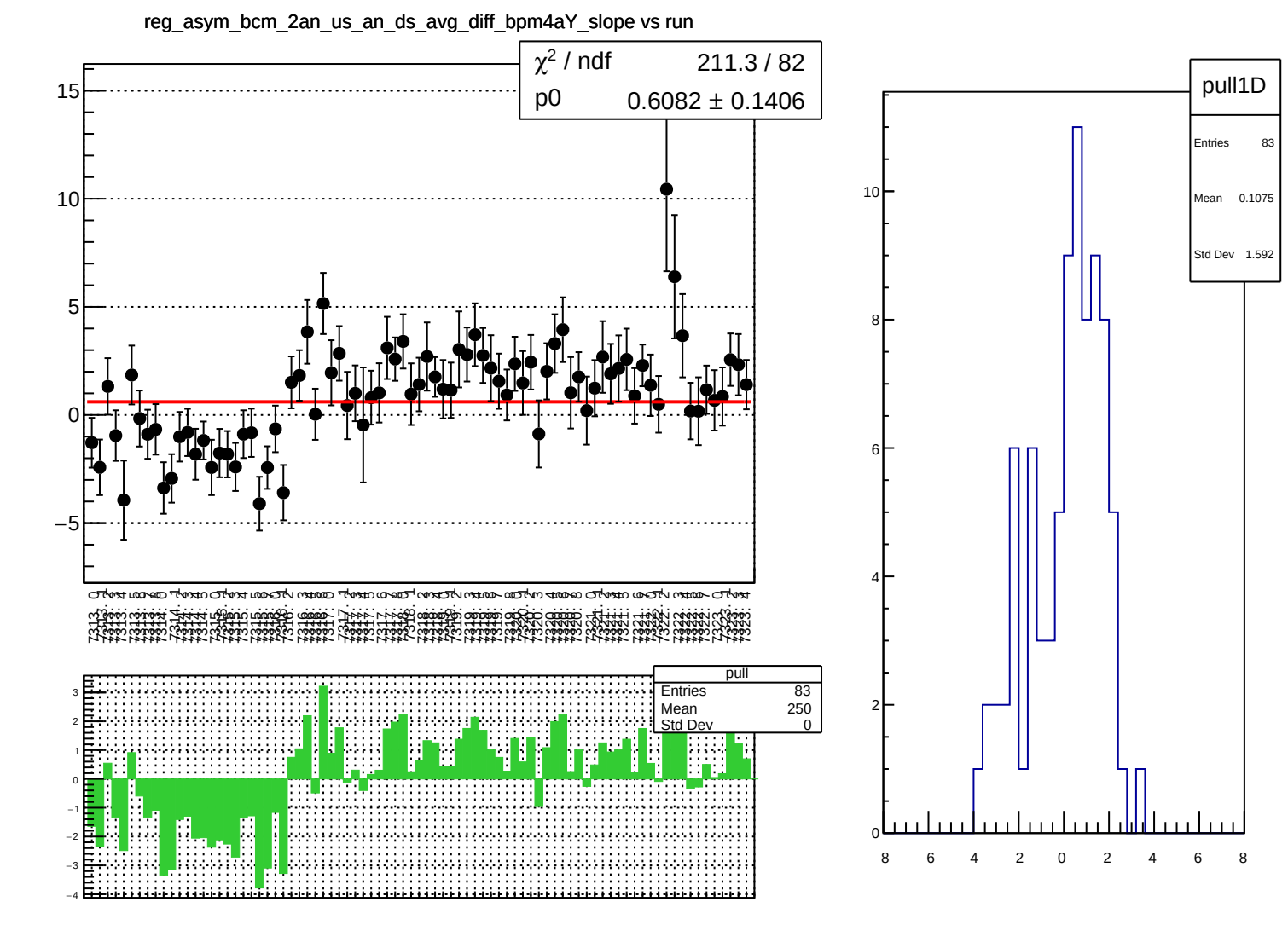

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 712.2 / 82
p0 7.914 ± 0.174
pull
Entries 83
Mean 99.44
Std Dev 0
pull1D
Entries 83
Mean 0.432
Std Dev 2.459

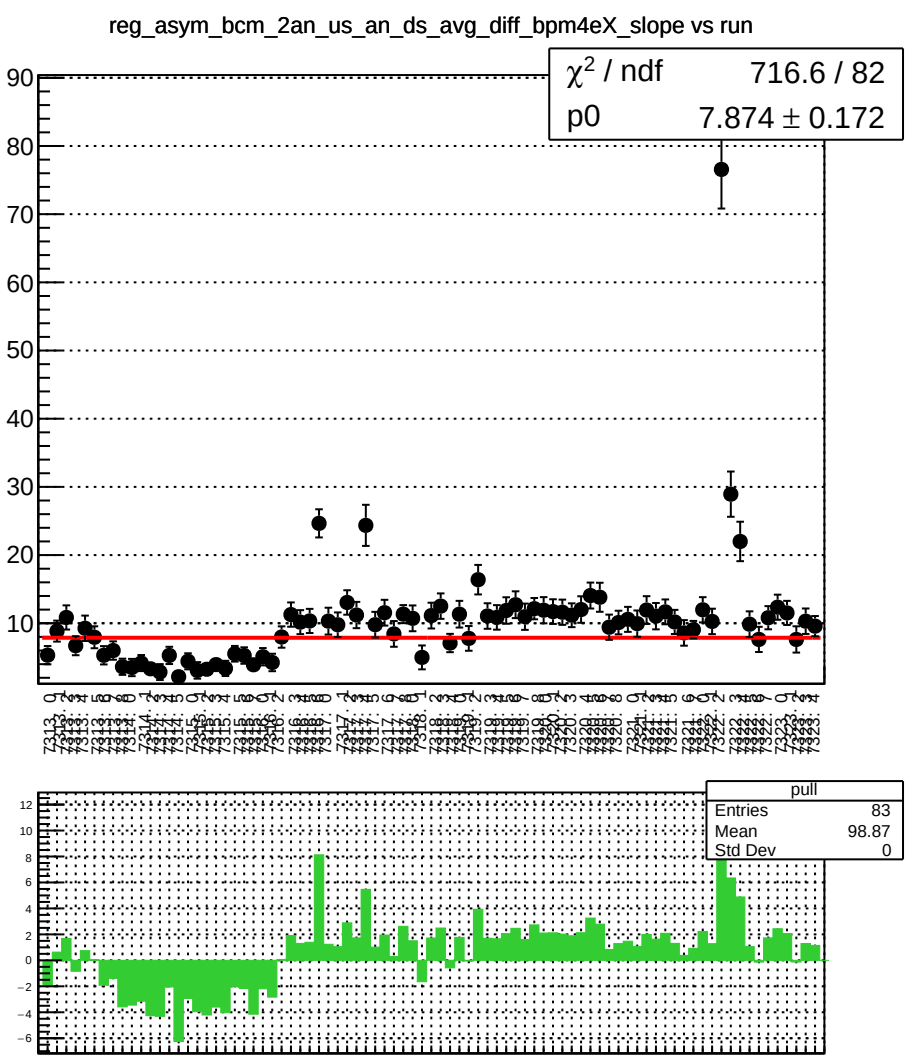

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 255.1 / 82
p0 −1.943 ± 0.1538
pull
Entries 83
Mean 205.5
Std Dev 0
pull1D
Entries 83
Mean −0.1506
Std Dev 1.747

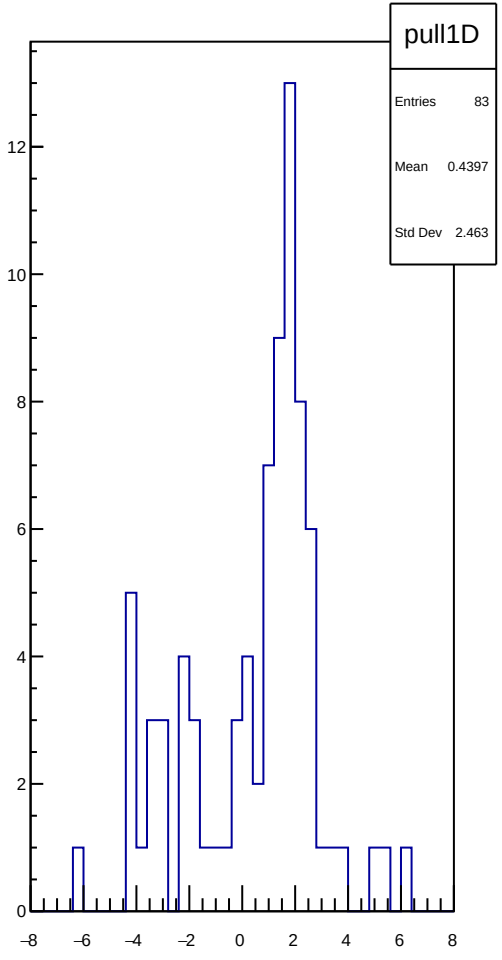

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 96.8 / 82
p0 −0.02873 ± 0.006368
pull
Entries 83
Mean −9976
Std Dev 0

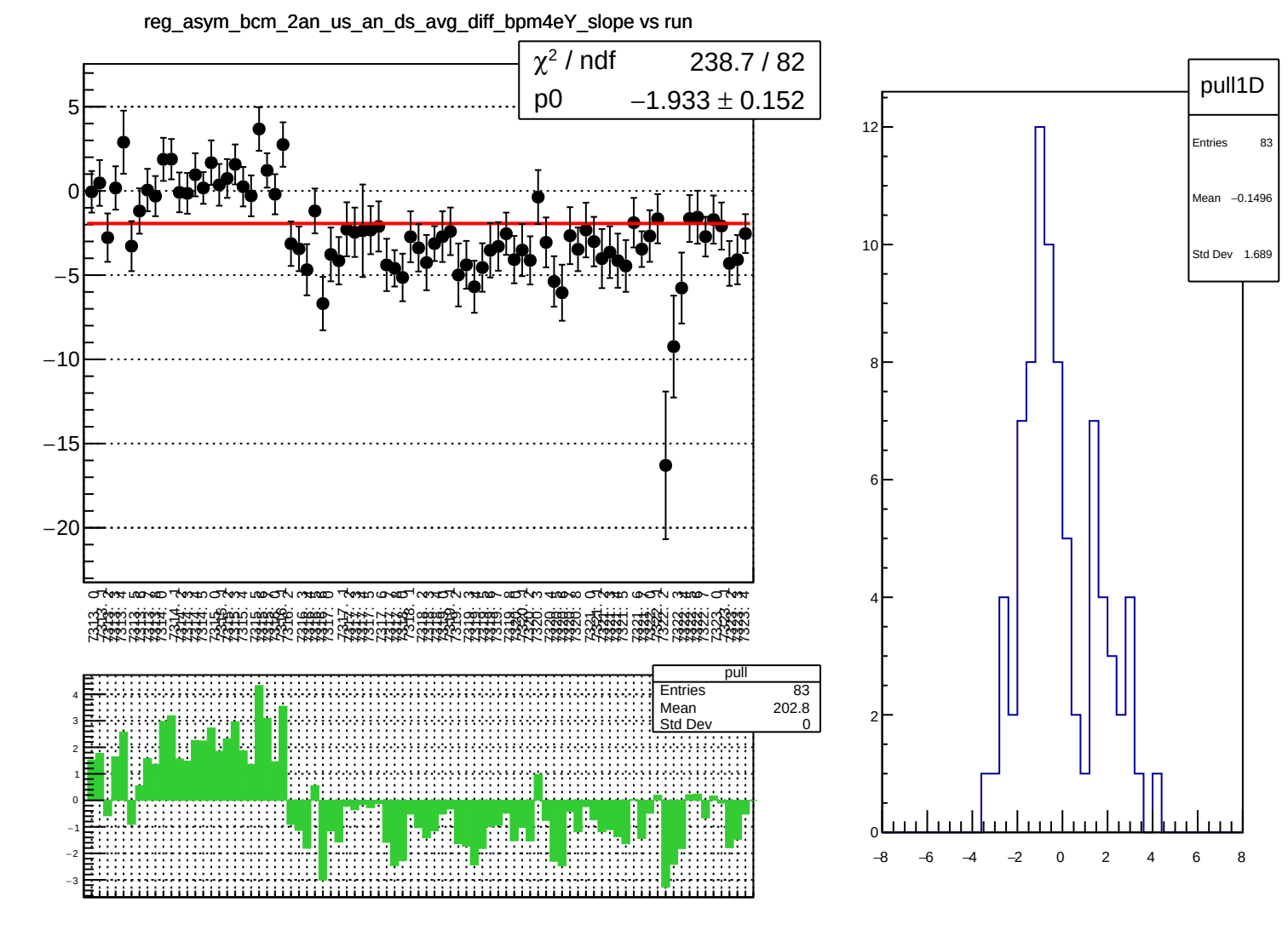

pull1D
Entries 83
Mean 0.0009893
Std Dev 1.08

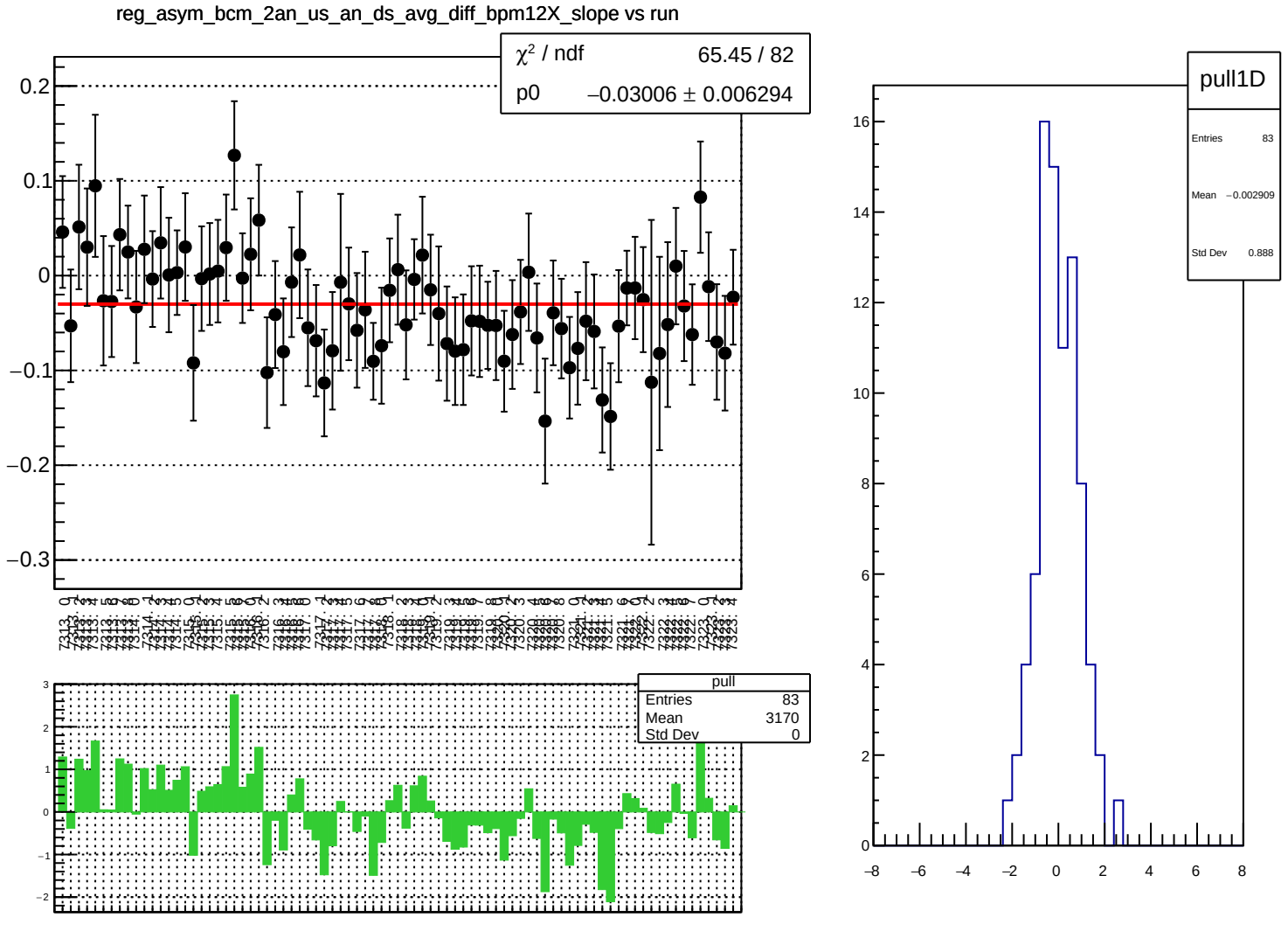

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 719.8 / 82
p0 −7.912 ± 0.1731
pull
Entries 83
Mean 99.8
Std Dev 0
pull1D
Entries 83
Mean −0.4357
Std Dev 2.47

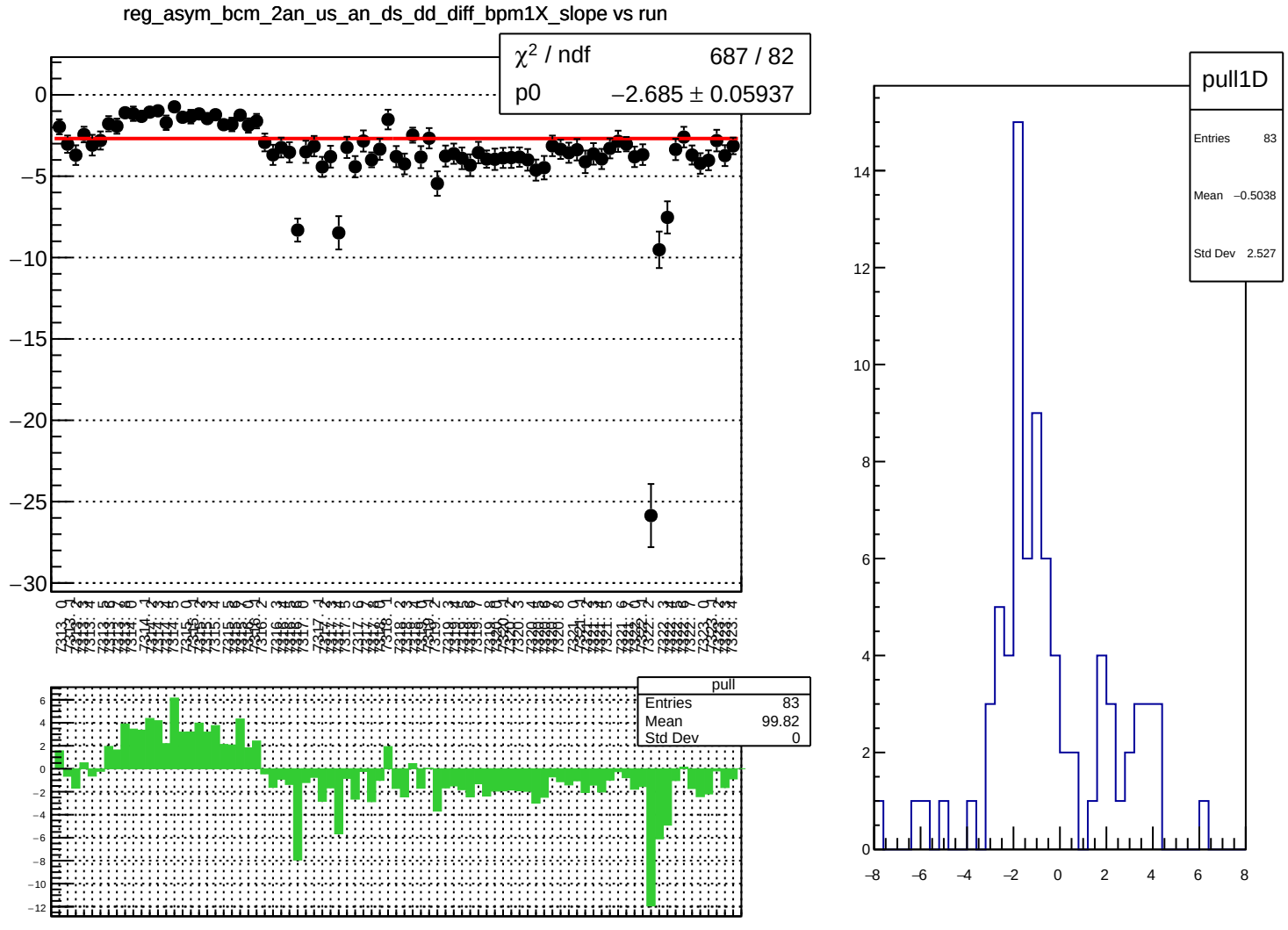

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 211.3 / 82
p0 0.6082 ± 0.1406
pull
Entries 83
Mean 250
Std Dev 0
pull1D
Entries 83
Mean 0.1075
Std Dev 1.592

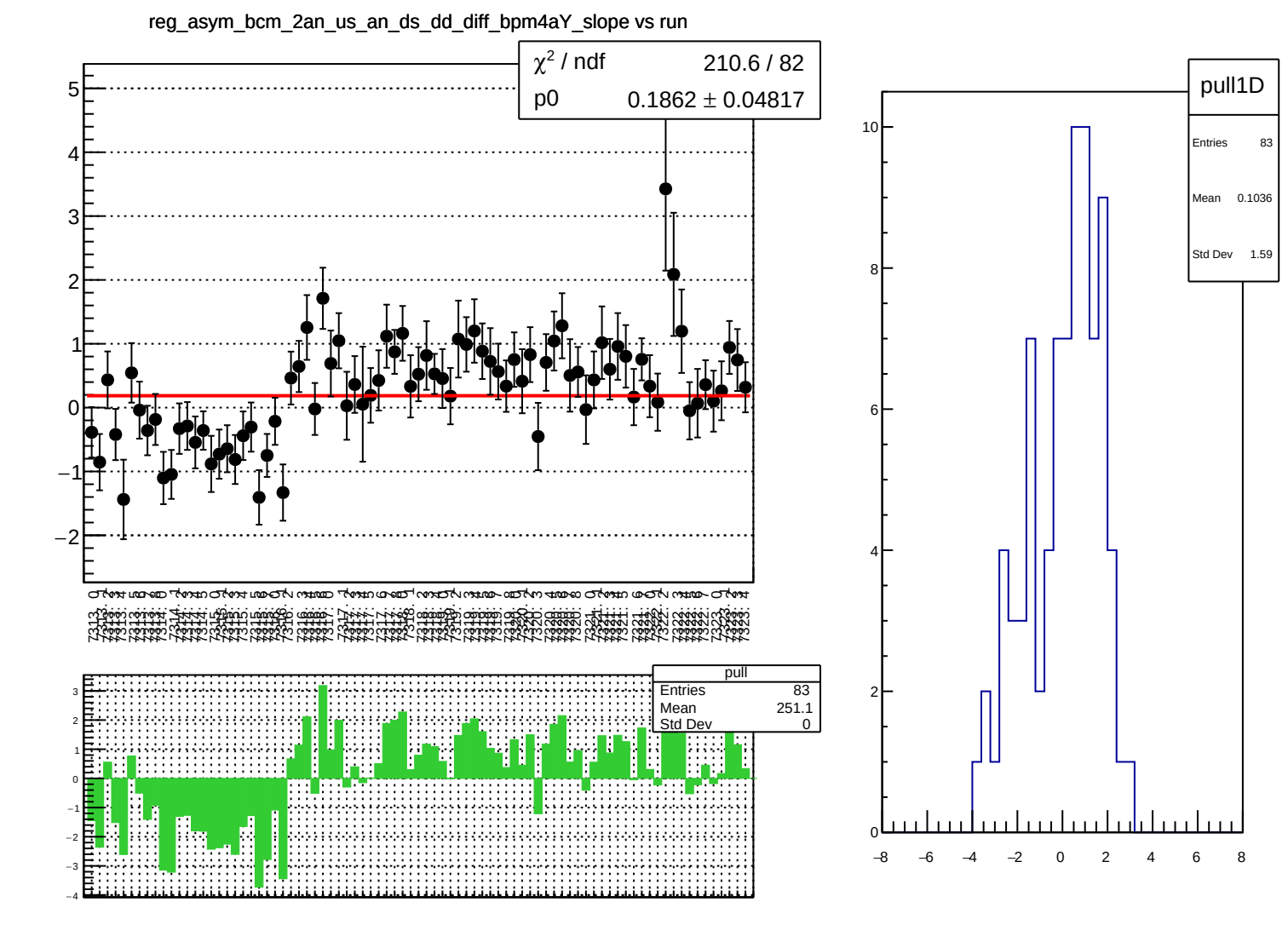

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 716.6 / 82
p0 7.874 ± 0.172
pull
Entries 83
Mean 98.87
Std Dev 0

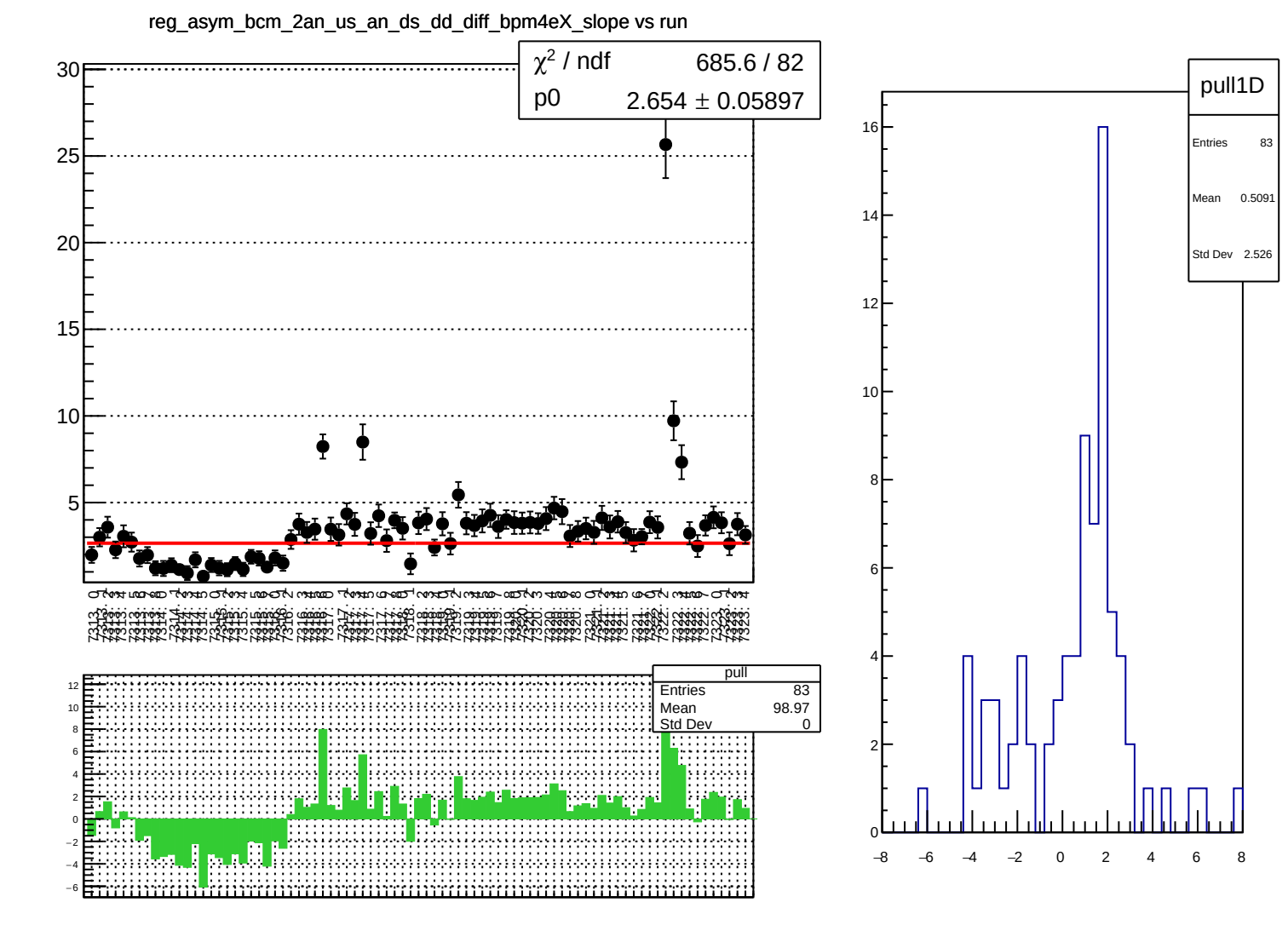

pull1D
Entries 83
Mean 0.4397
Std Dev 2.463

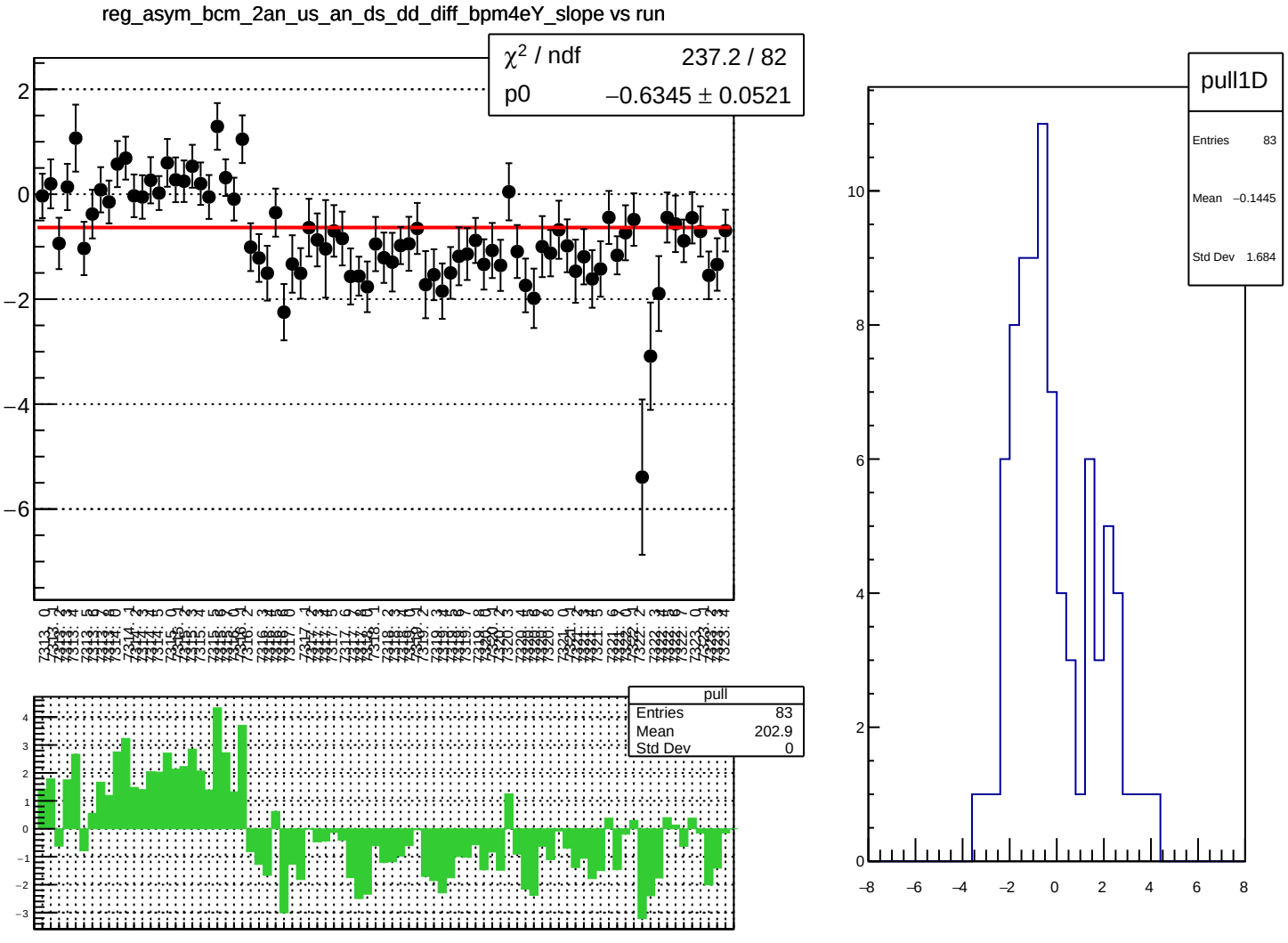

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 238.7 / 82
p0 −1.933 ± 0.152
pull
Entries 83
Mean 202.8
Std Dev 0
pull1D
Entries 83
Mean −0.1496
Std Dev 1.689

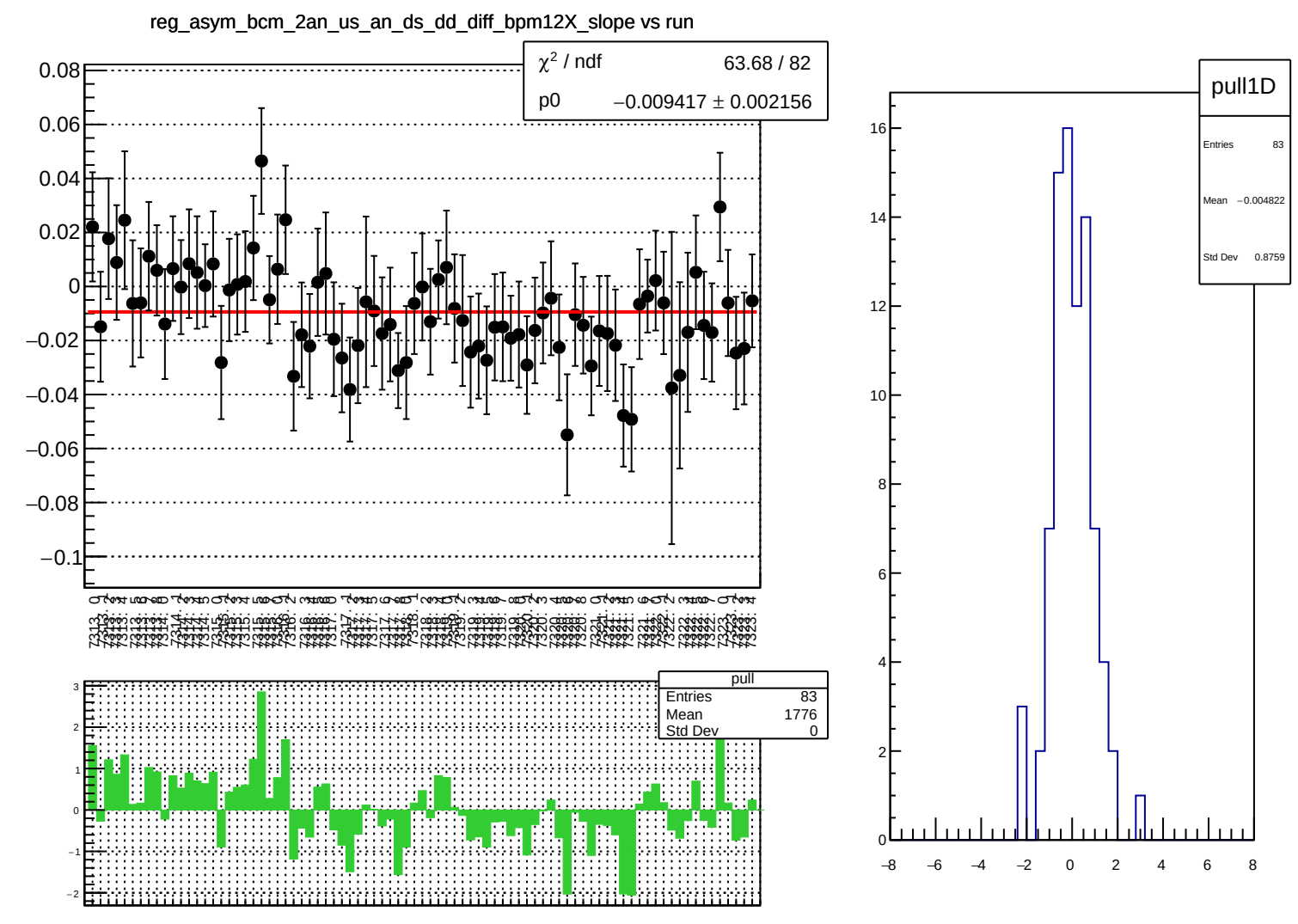

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 65.45 / 82
p0 −0.03006 ± 0.006294
pull
Entries 83
Mean 3170
Std Dev 0
pull1D
Entries 83
Mean −0.002909
Std Dev 0.888

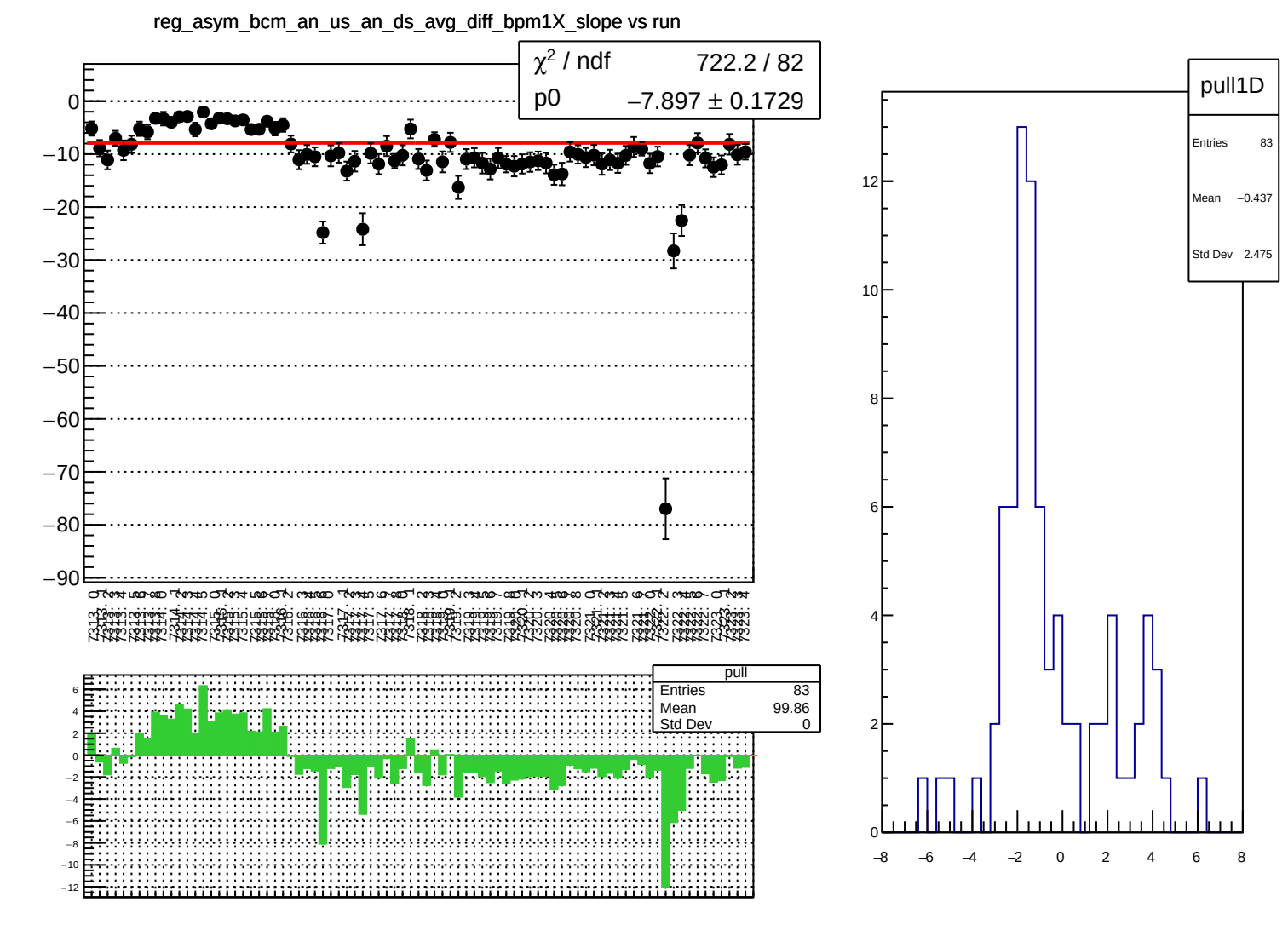

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 687 / 82
p0 −2.685 ± 0.05937
pull
Entries 83
Mean 99.82
Std Dev 0
pull1D
Entries 83
Mean −0.5038
Std Dev 2.527

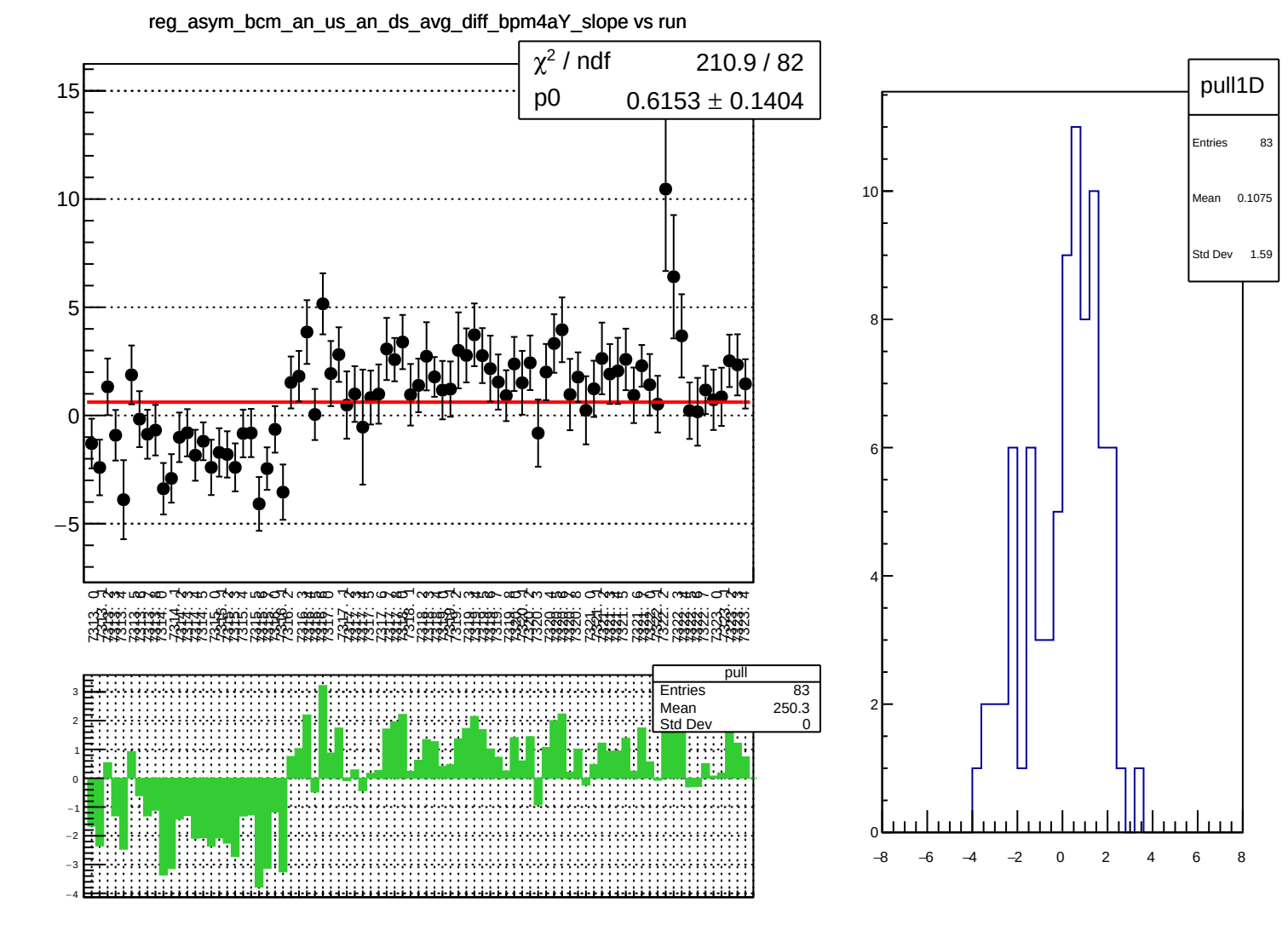

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 210.6 / 82
p0 0.1862 ± 0.04817
pull
Entries 83
Mean 251.1
Std Dev 0
pull1D
Entries 83
Mean 0.1036
Std Dev 1.59

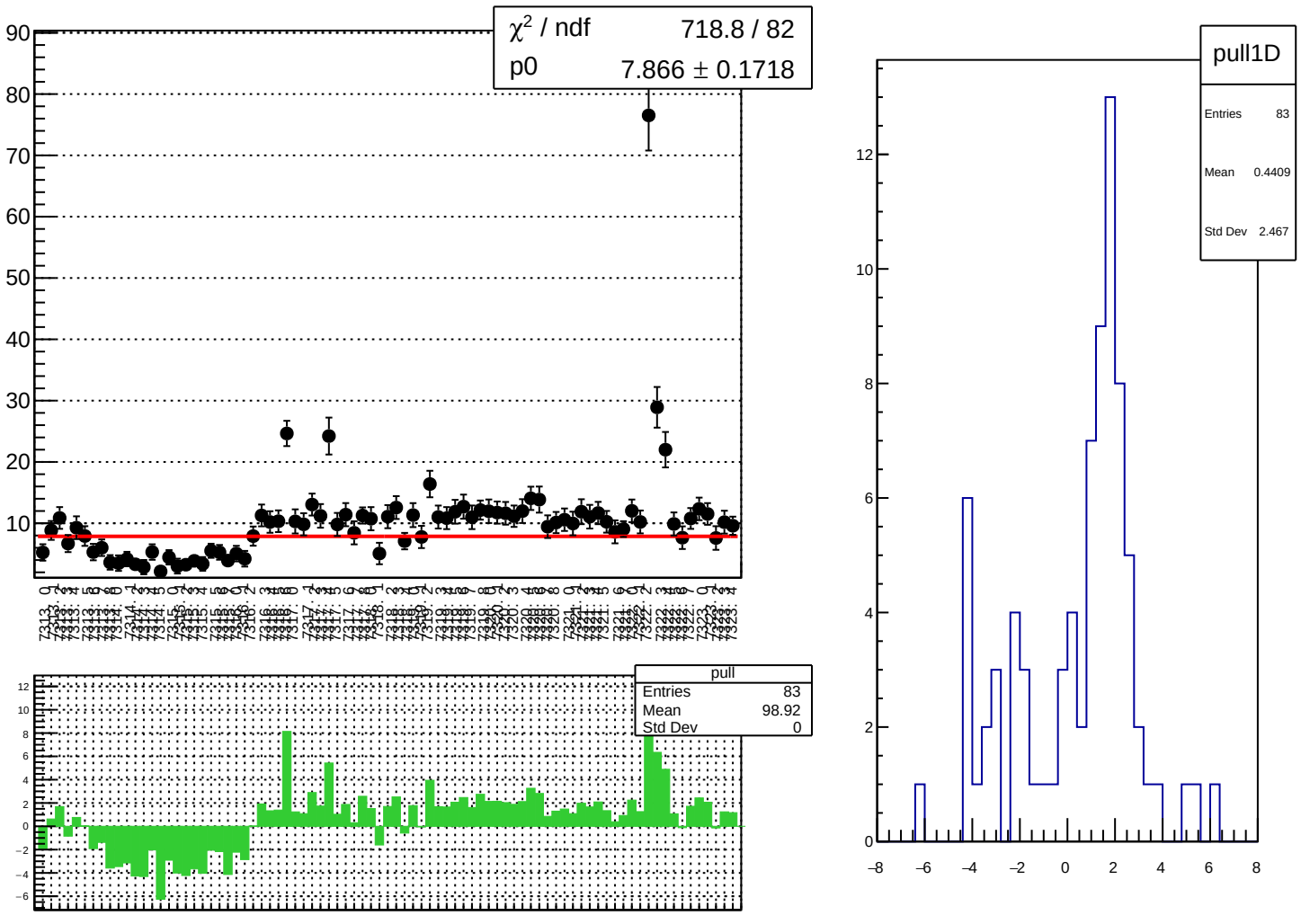

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 685.6 / 82
p0 2.654 ± 0.05897
pull
Entries 83
Mean 98.97
Std Dev 0
pull1D
Entries 83
Mean 0.5091
Std Dev 2.526

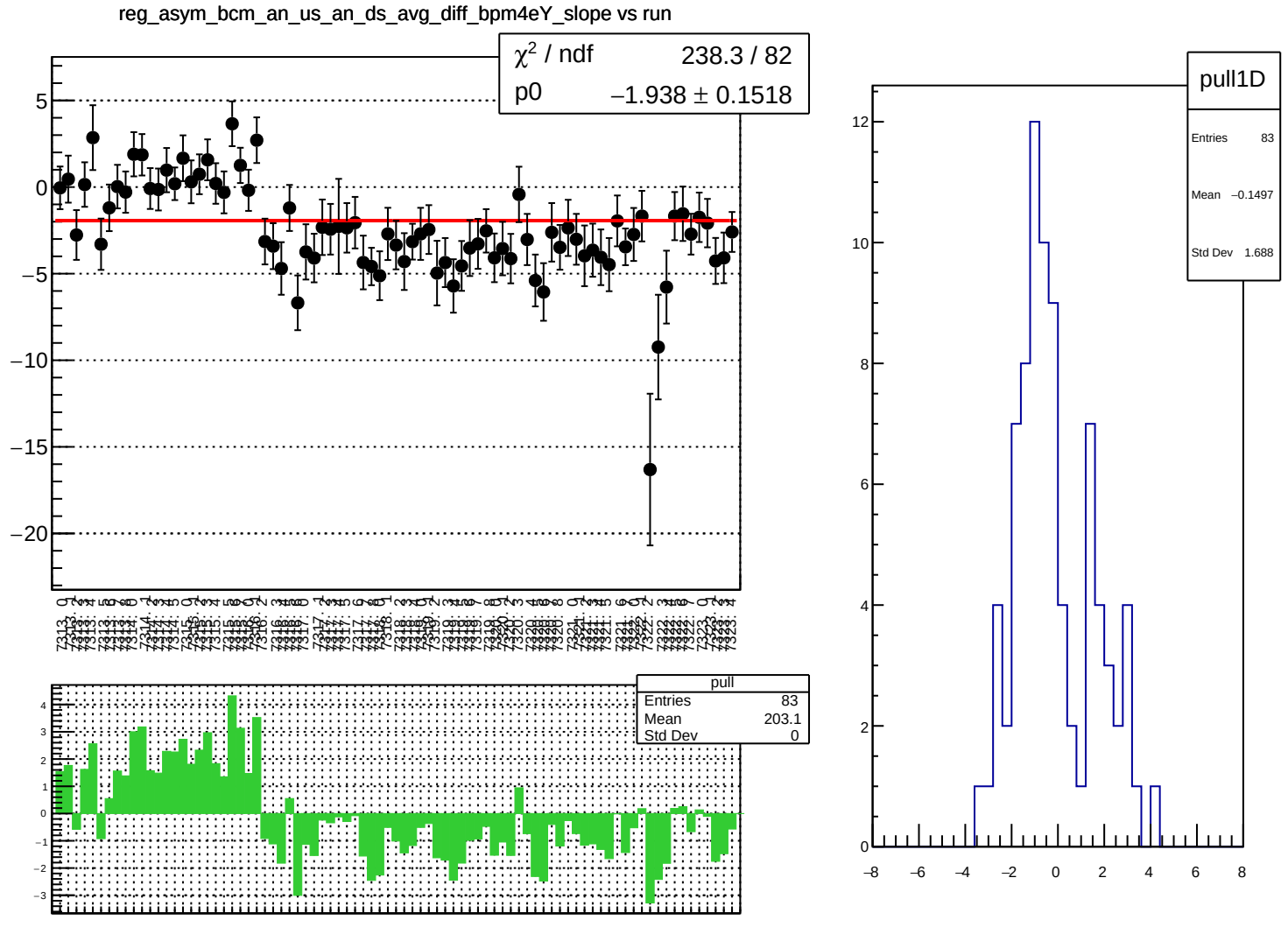

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 237.2 / 82
p0 −0.6345 ± 0.0521
pull
Entries 83
Mean 202.9
Std Dev 0
pull1D
Entries 83
Mean −0.1445
Std Dev 1.684

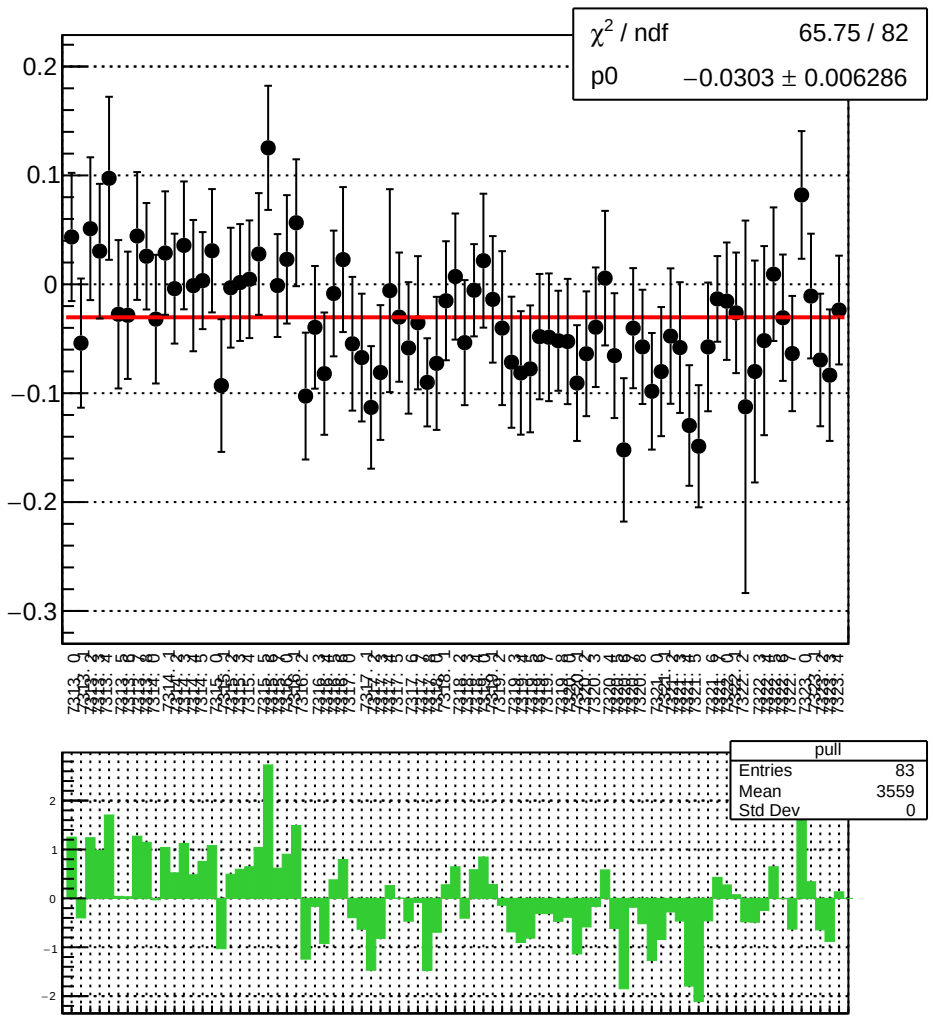

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 63.68 / 82
p0 −0.009417 ± 0.002156
pull
Entries 83
Mean 1776
Std Dev 0
pull1D
Entries 83
Mean −0.004822
Std Dev 0.8759

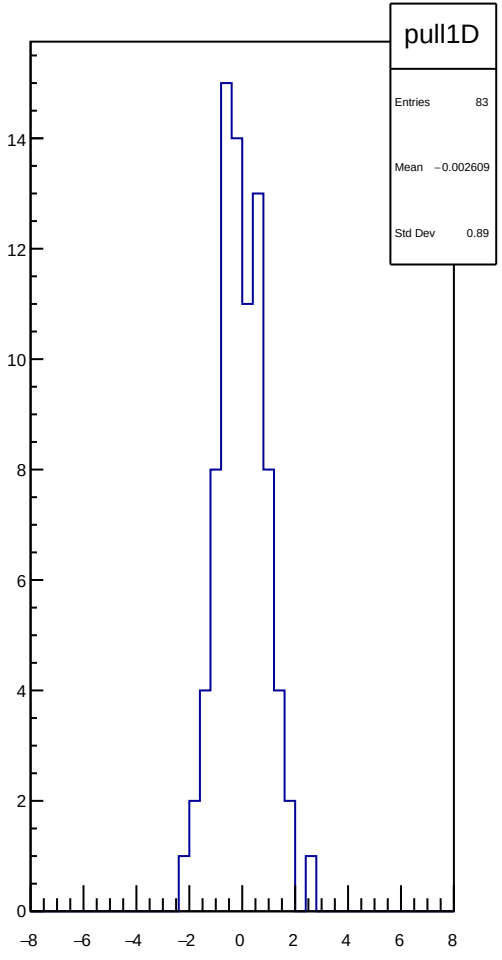

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 722.2 / 82
p0 −7.897 ± 0.1729
pull
Entries 83
Mean 99.86
Std Dev 0
pull1D
Entries 83
Mean −0.437
Std Dev 2.475

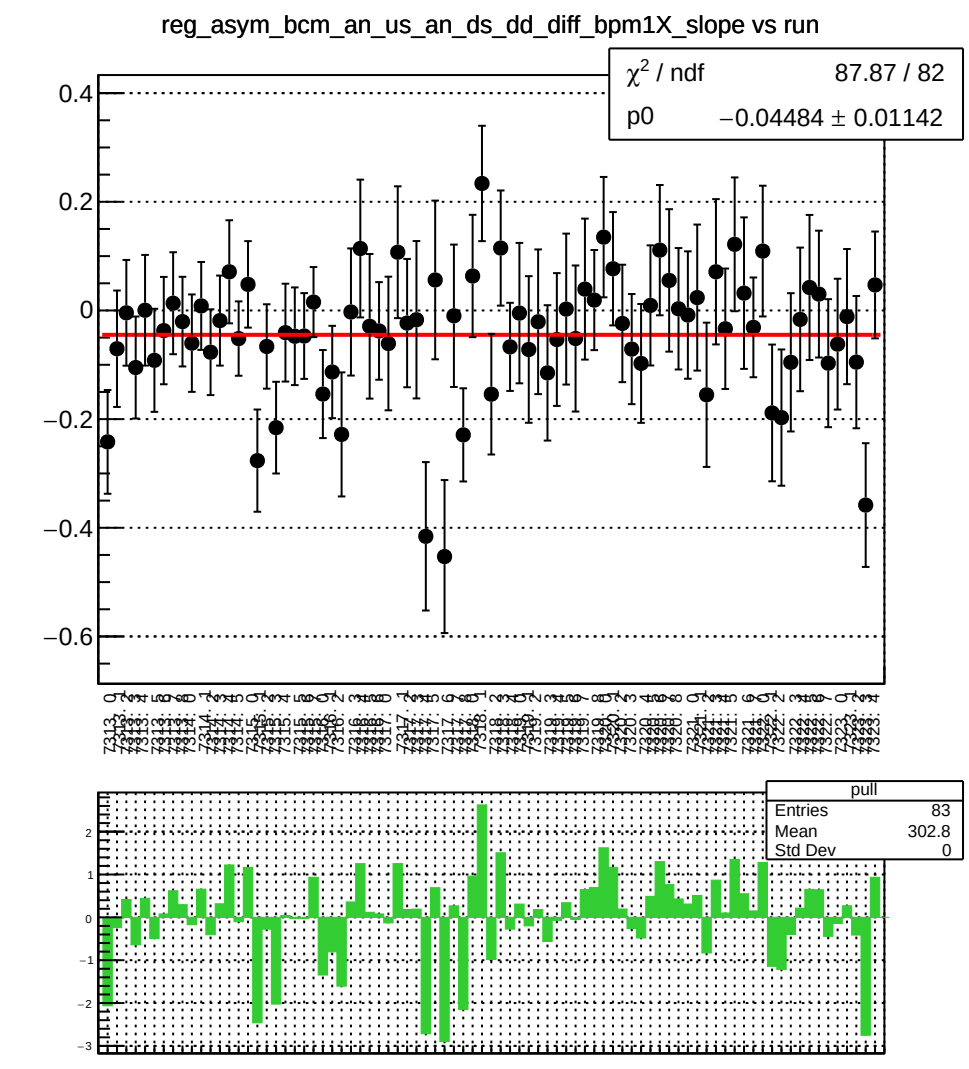

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 210.9 / 82
p0 0.6153 ± 0.1404
pull
Entries 83
Mean 250.3
Std Dev 0
pull1D
Entries 83
Mean 0.1075
Std Dev 1.59

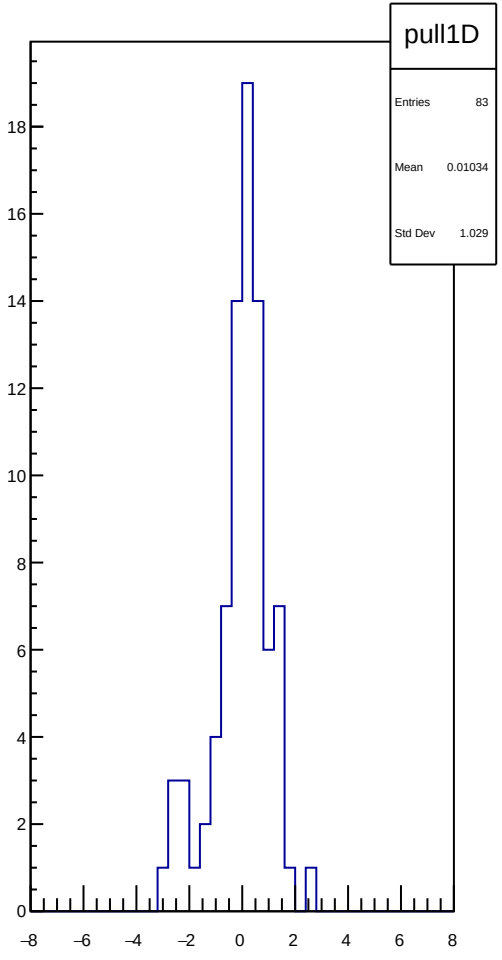

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 718.8 / 82
p0 7.866 ± 0.1718
pull
Entries 83
Mean 98.92
Std Dev 0
pull1D
Entries 83
Mean 0.4409
Std Dev 2.467

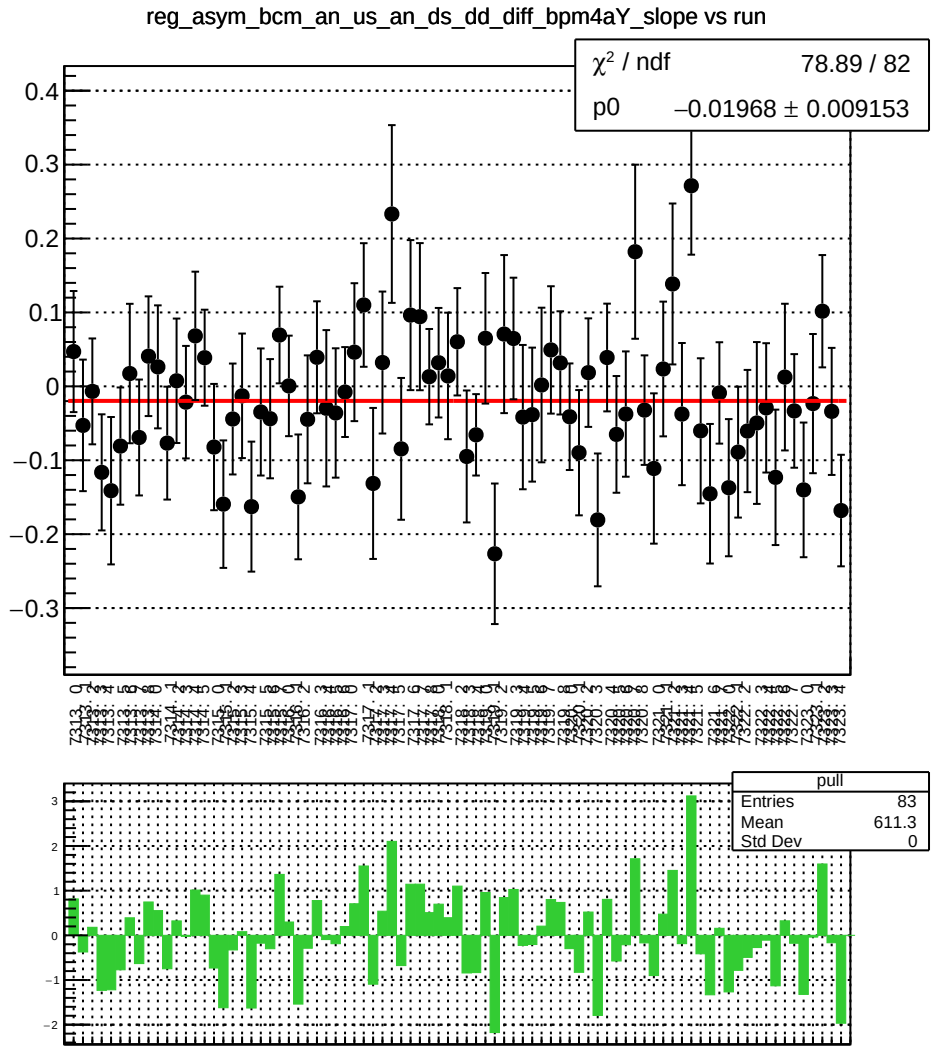

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 238.3 / 82
p0 −1.938 ± 0.1518
pull
Entries 83
Mean 203.1
Std Dev 0
pull1D
Entries 83
Mean −0.1497
Std Dev 1.688

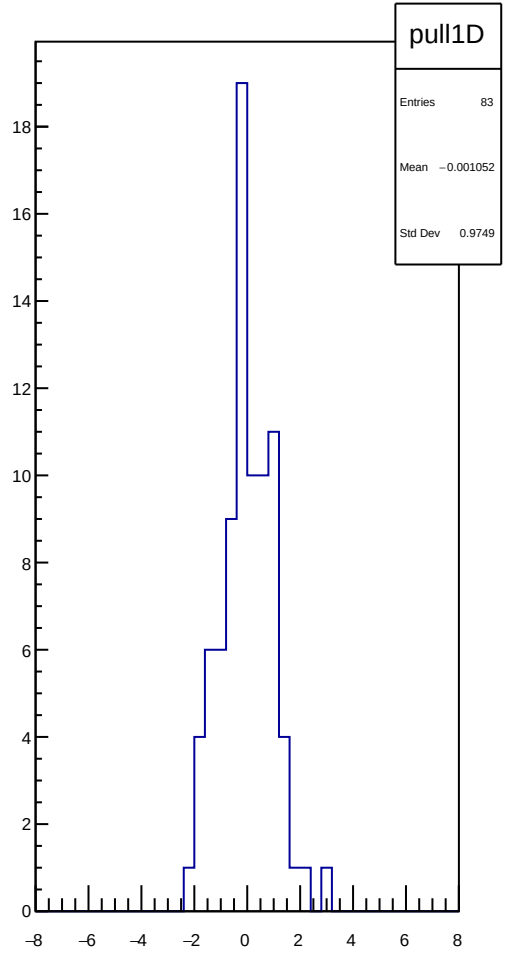

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 65.75 / 82
p0 −0.0303 ± 0.006286
pull
Entries 83
Mean 3559
Std Dev 0

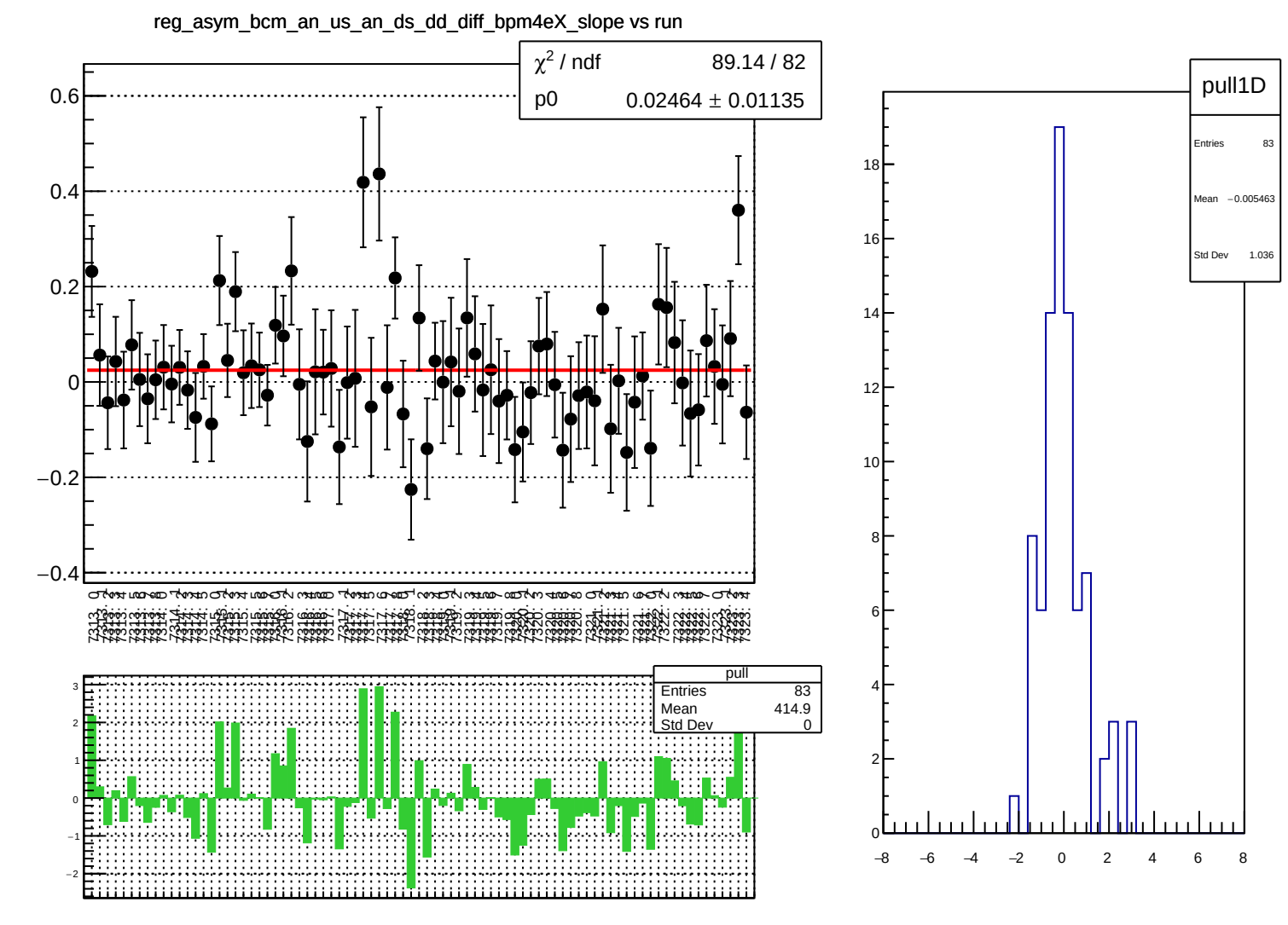

pull1D
Entries 83
Mean −0.002609
Std Dev 0.89

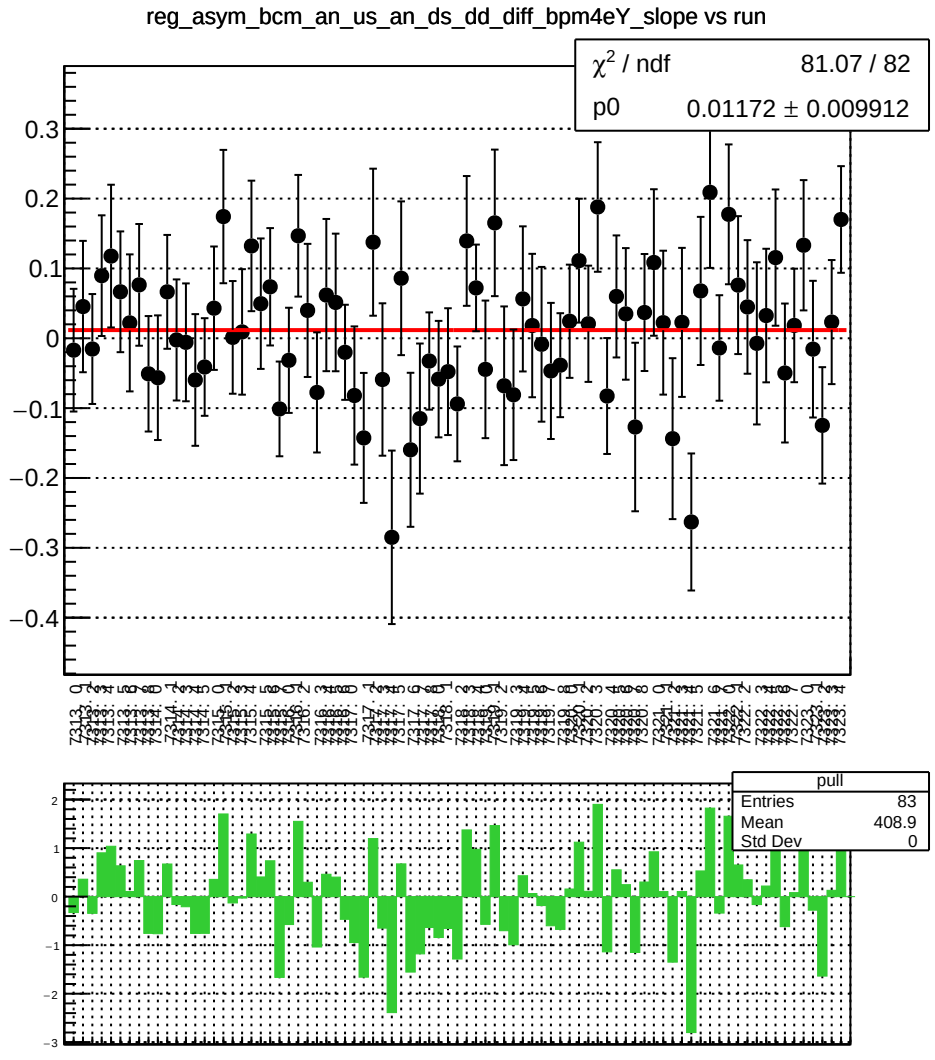

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 87.87 / 82
p0 −0.04484 ± 0.01142
pull
Entries 83
Mean 302.8
Std Dev 0

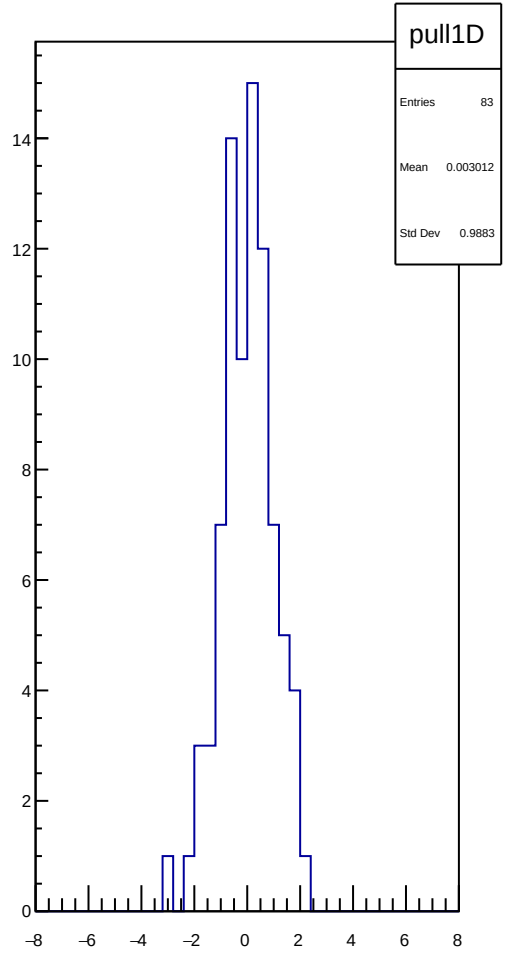

pull1D
Entries 83
Mean 0.01034
Std Dev 1.029

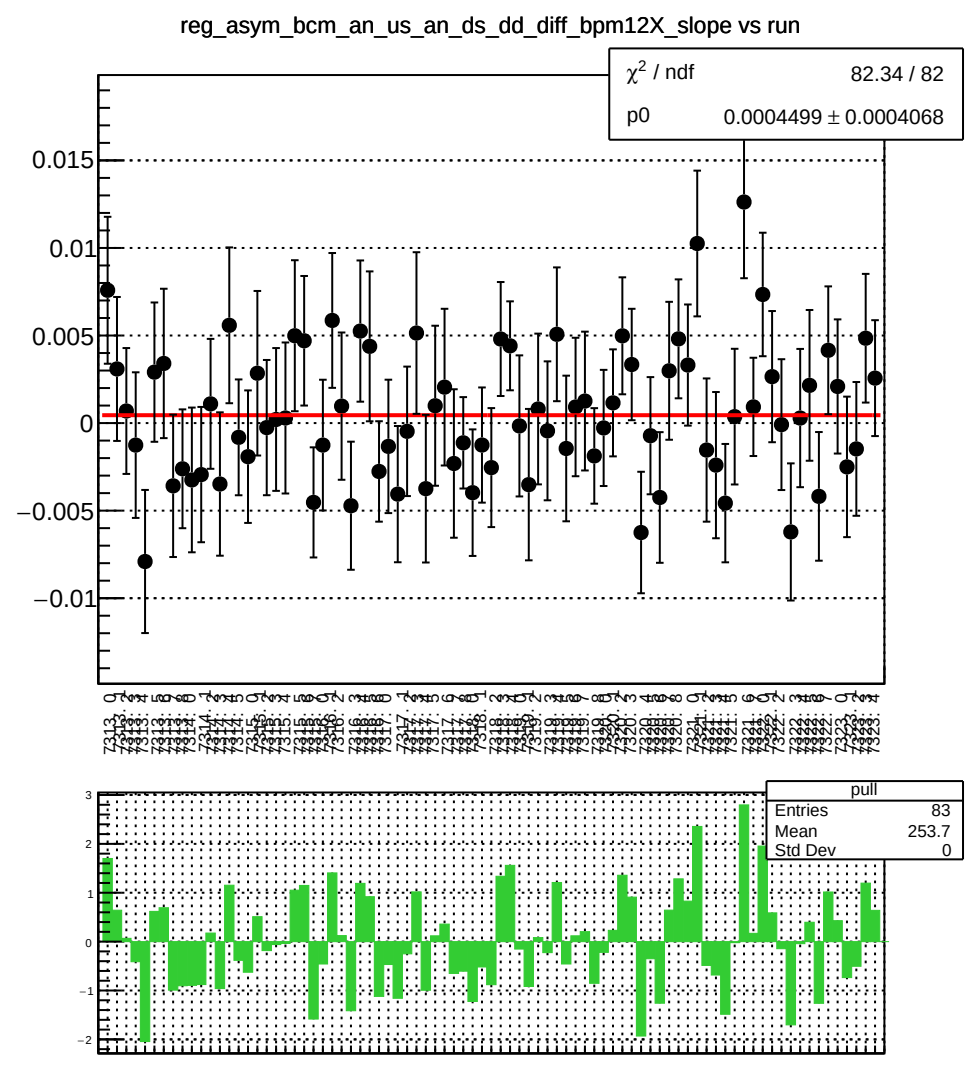

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.89 / 82
p0 −0.01968 ± 0.009153
pull
Entries 83
Mean 611.3
Std Dev 0

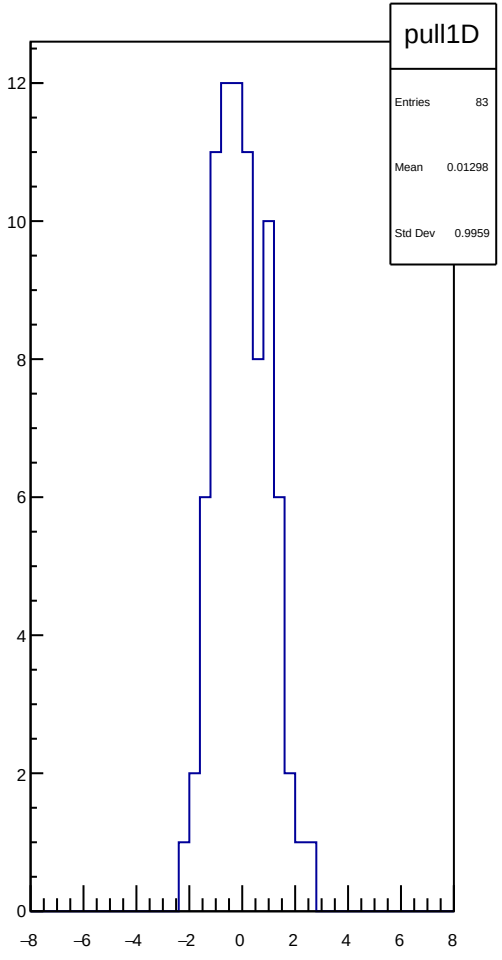

pull1D
Entries 83
Mean −0.001052
Std Dev 0.9749

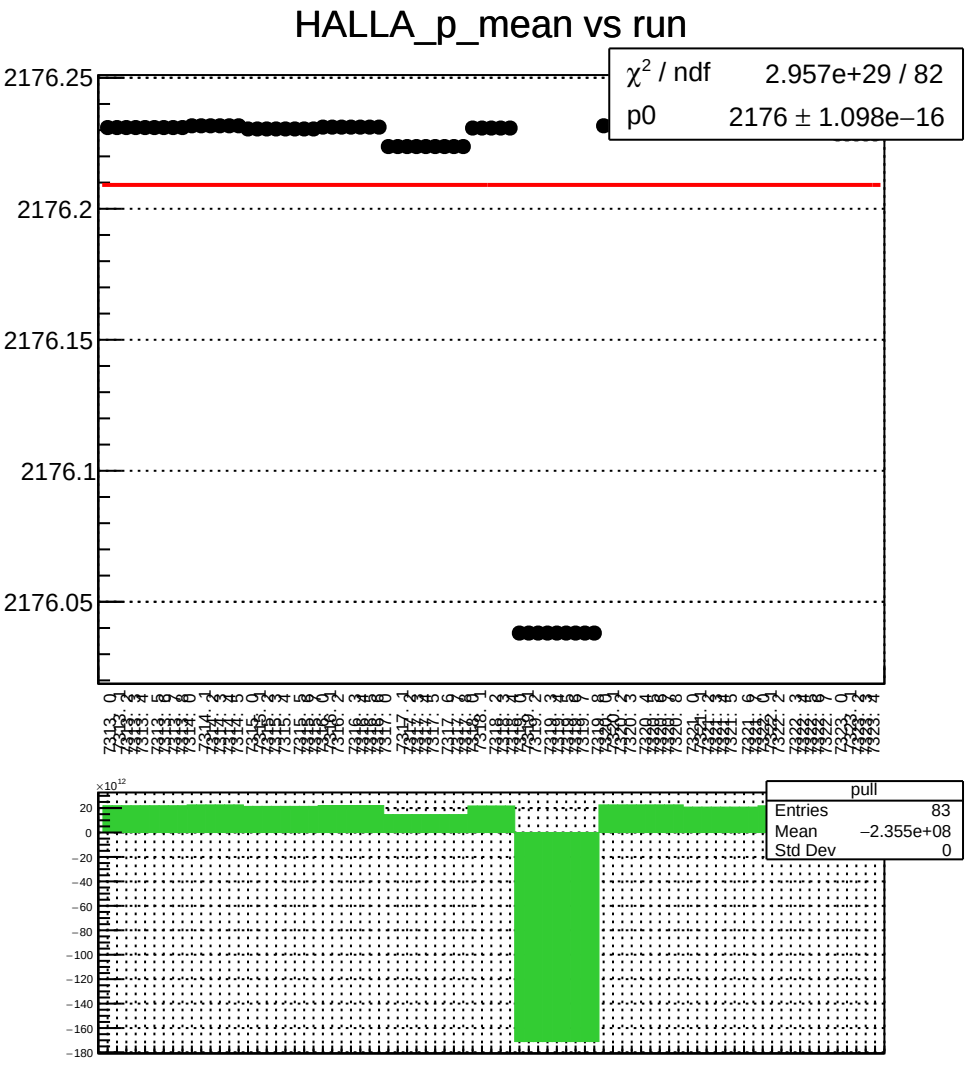

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.14 / 82
p0 0.02464 ± 0.01135
pull
Entries 83
Mean 414.9
Std Dev 0
pull1D
Entries 83
Mean −0.005463
Std Dev 1.036

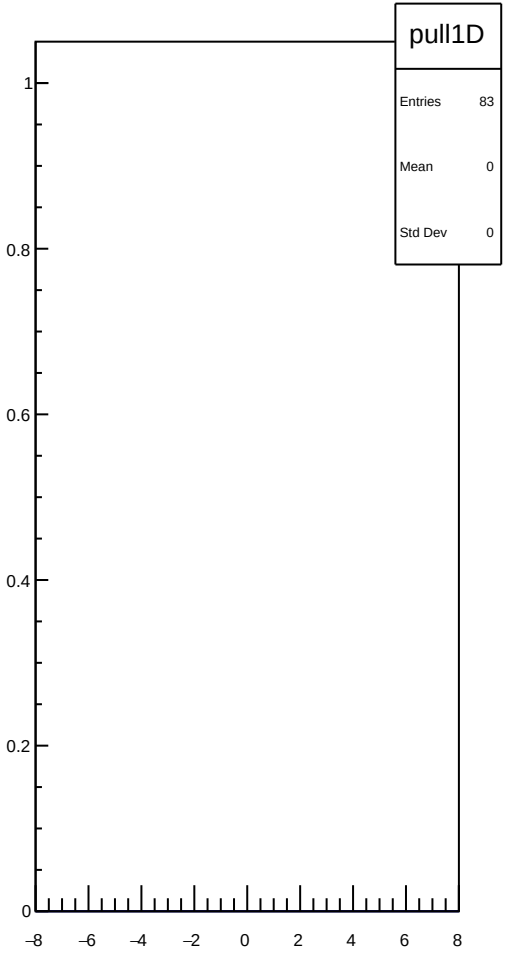

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.07 / 82
p0 0.01172 ± 0.009912
pull
Entries 83
Mean 408.9
Std Dev 0

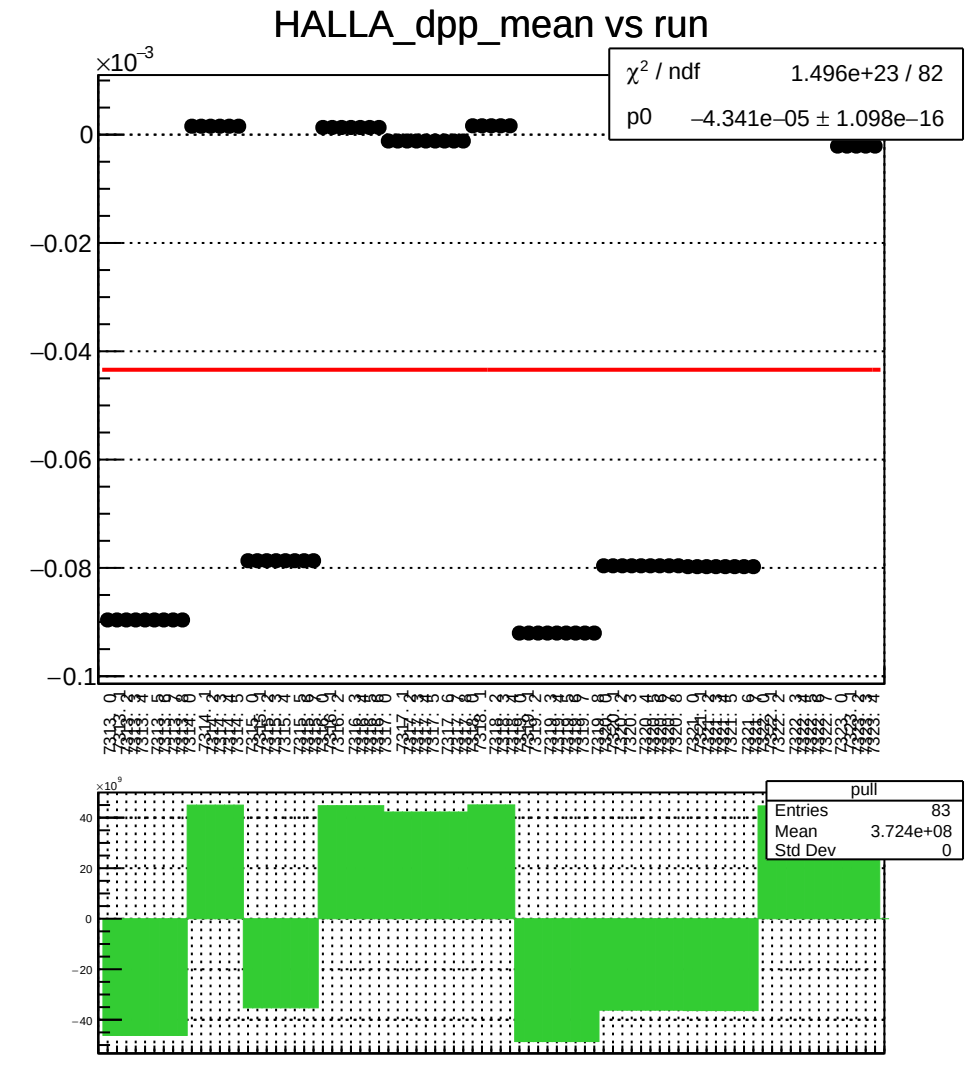

pull1D
Entries 83
Mean 0.003012
Std Dev 0.9883

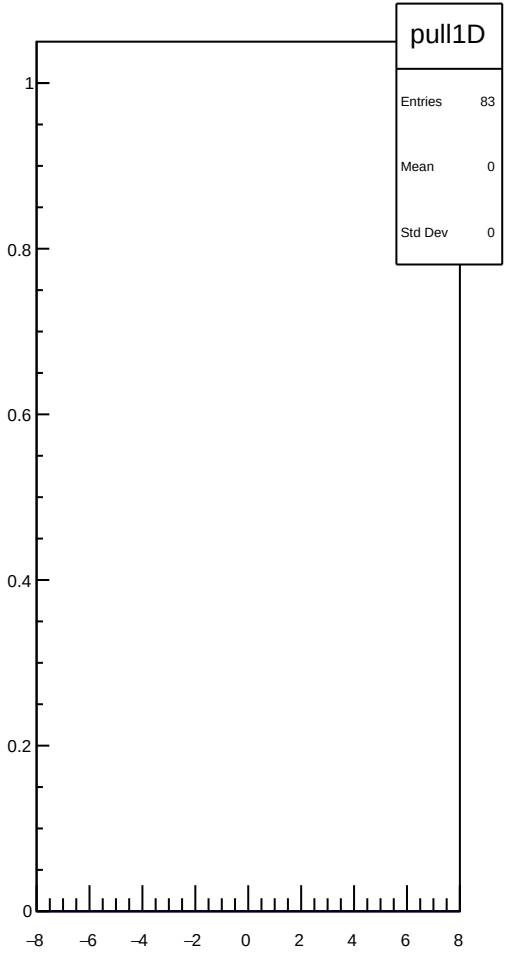

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82.34 / 82
p0 0.0004499 ± 0.0004068
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 83
Mean 253.7
Std Dev 0

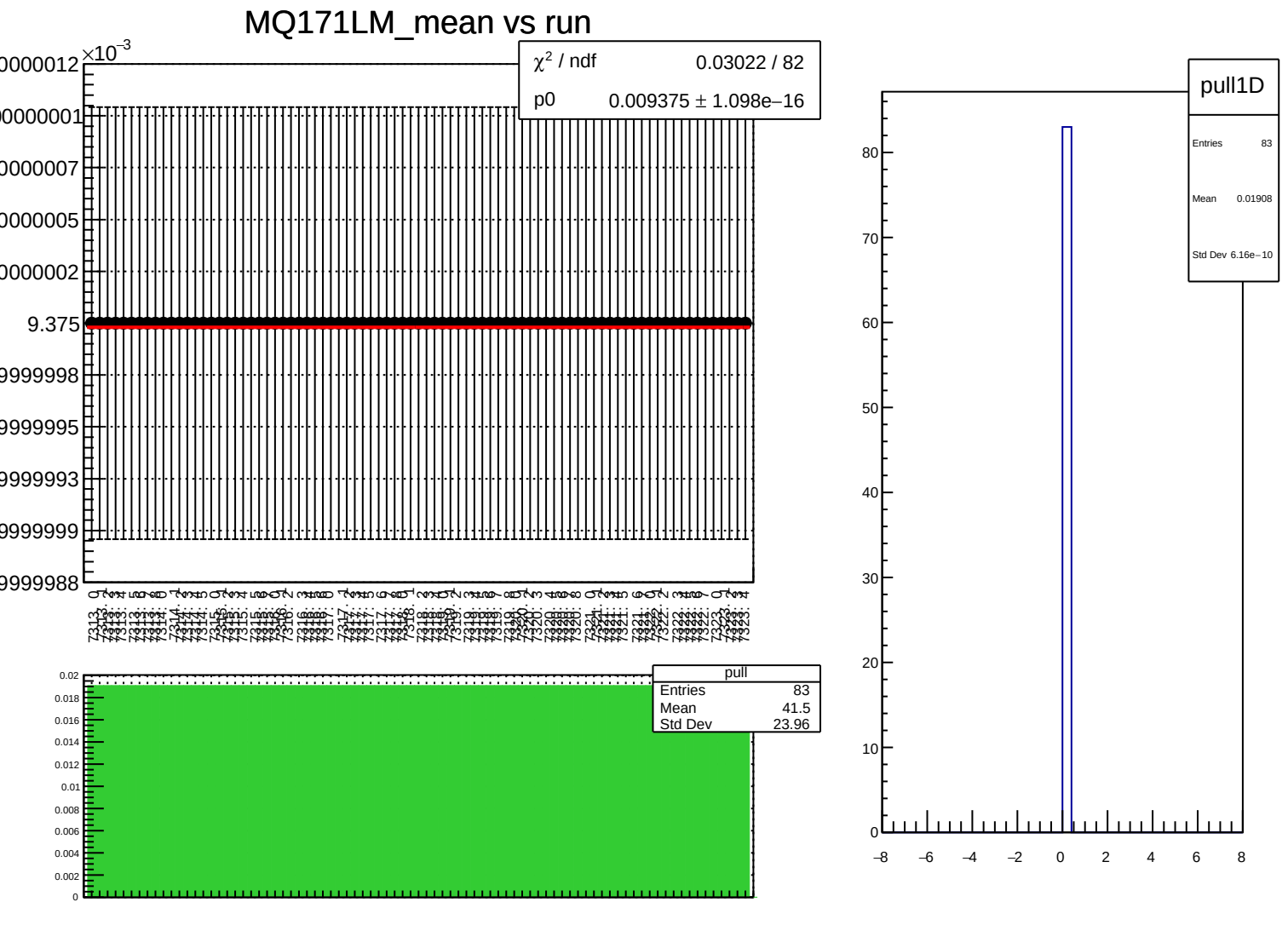

pull1D
Entries 83
Mean 0.01298
Std Dev 0.9959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

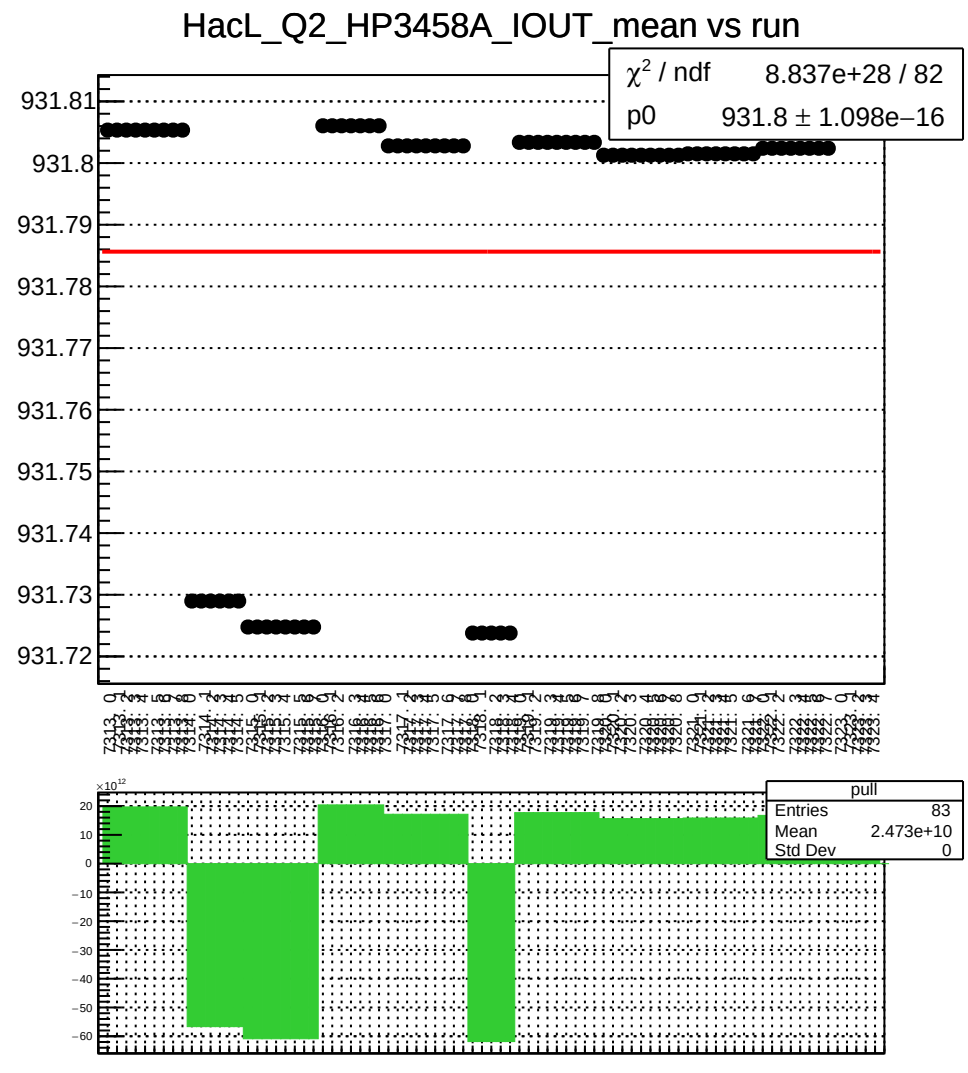

HALLA_p_mean vs run
χ² / ndf 2.957e+29 / 82
p0 2176 ± 1.098e−16
2176.25
2176.2
2176.15
2176.1
2176.05
pull
Entries 83
Mean −2.355e+08
Std Dev 0
×10¹²
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

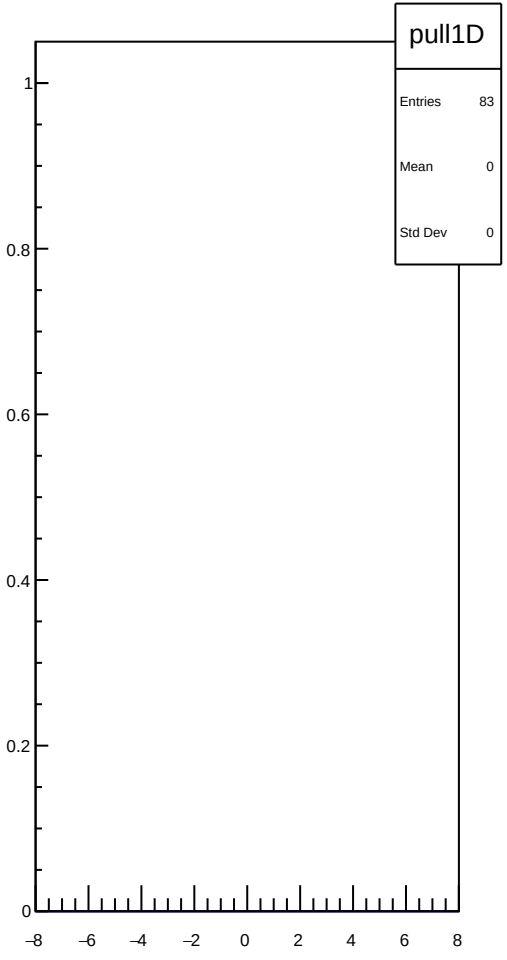

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

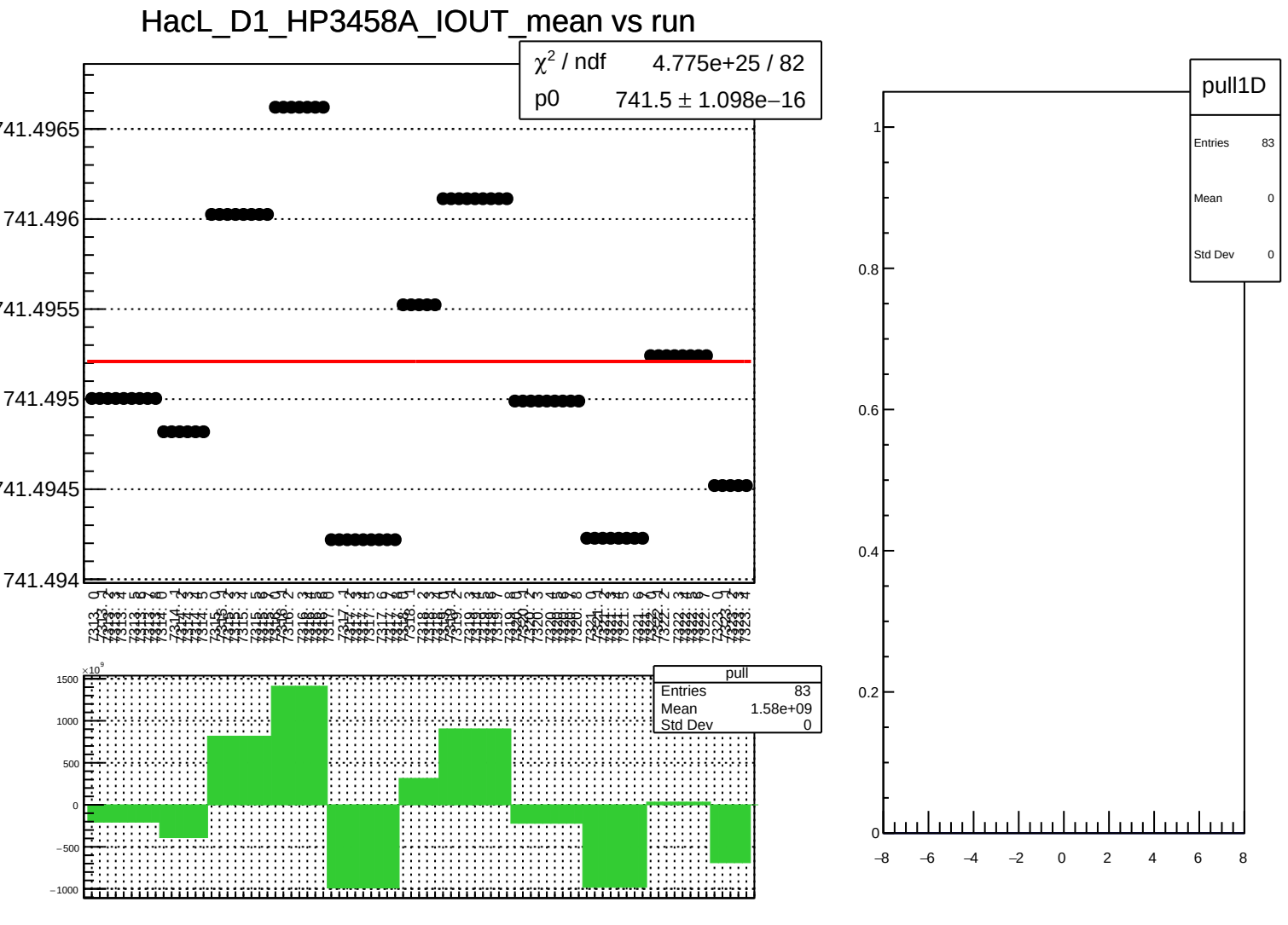

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.496e+23 / 82
p0 −4.341e−05 ± 1.098e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
40
20
0
−20
−40
pull
Entries 83
Mean 3.724e+08
Std Dev 0

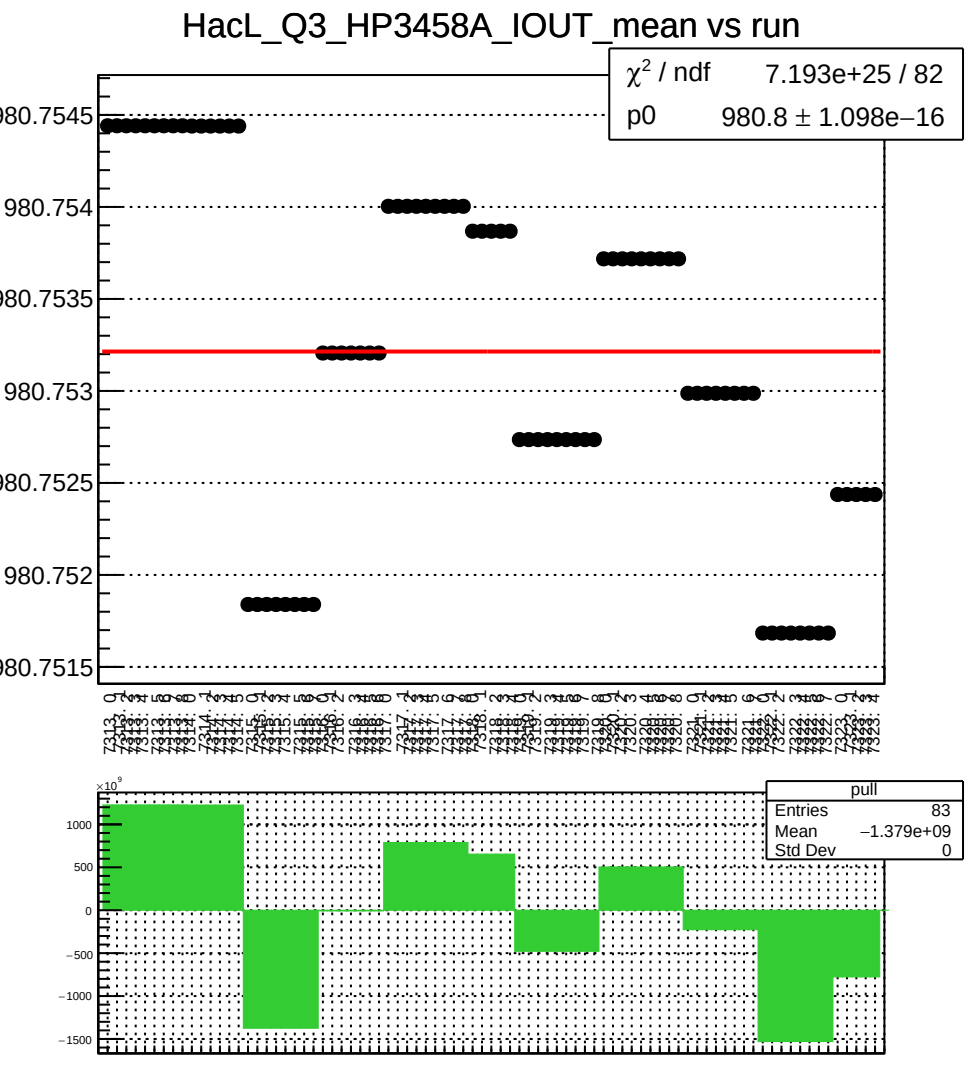

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

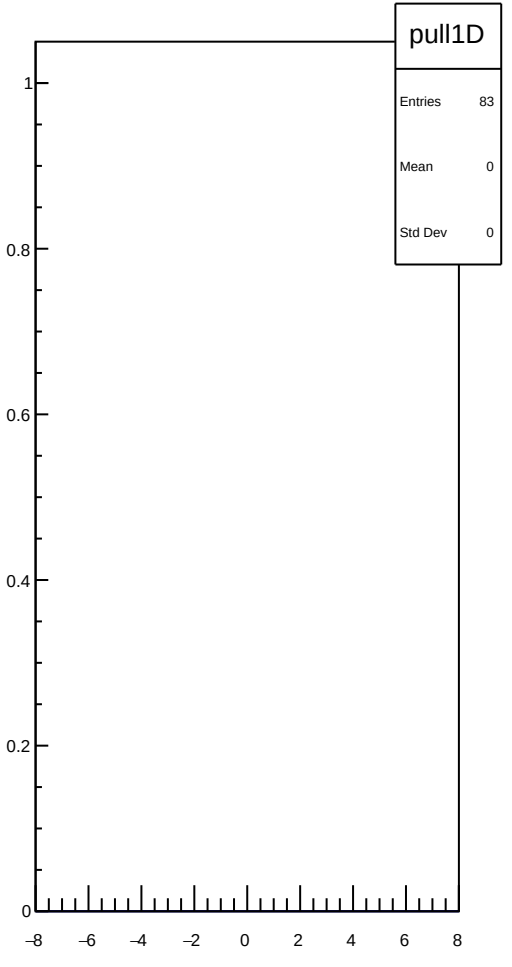

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

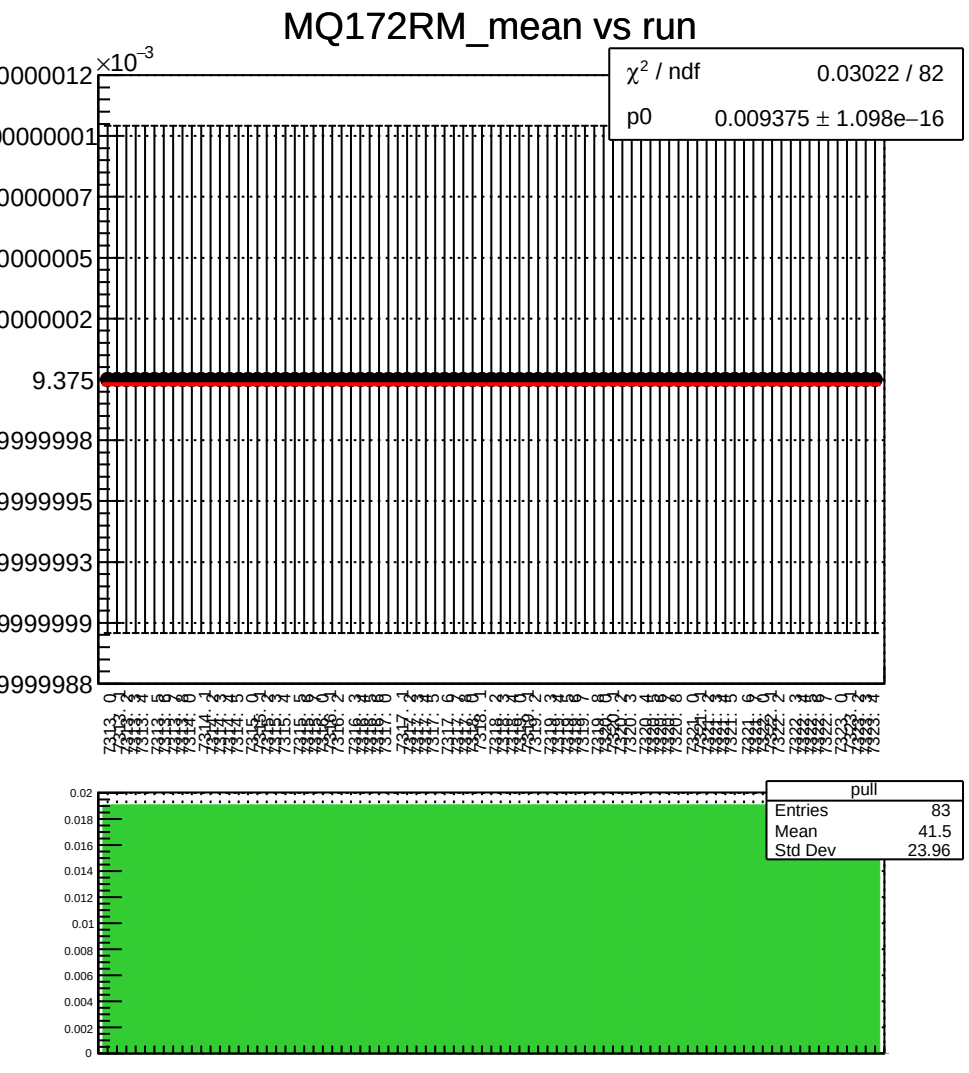

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.837e+28 / 82
p0 931.8 ± 1.098e−16
931.81
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
pull
Entries 83
Mean 2.473e+10
Std Dev 0
×10¹²
20
10
0
−10
−20
−30
−40
−50
−60

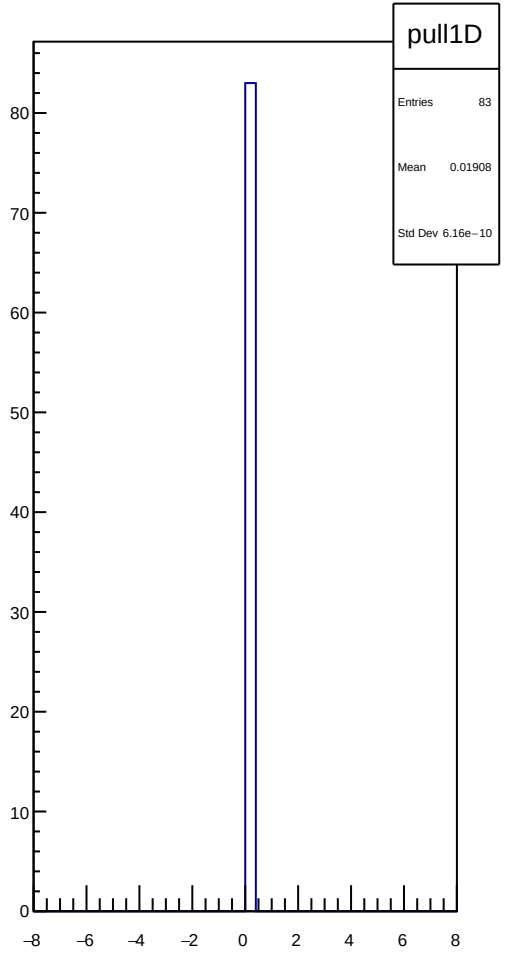

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

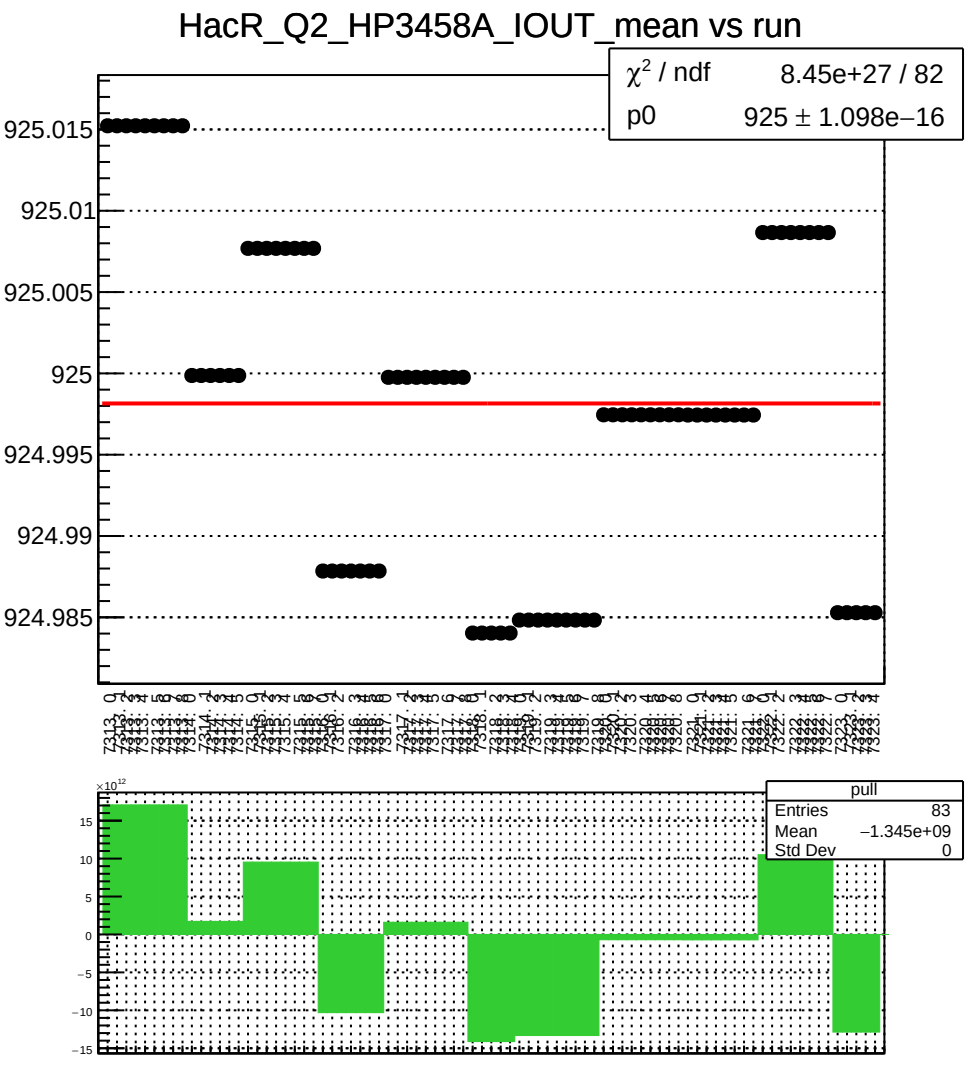

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.775e+25 / 82
p0 741.5 ± 1.098e−16
741.4965
741.496
741.4955
741.495
741.4945
741.494
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 83
Mean 1.58e+09
Std Dev 0
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

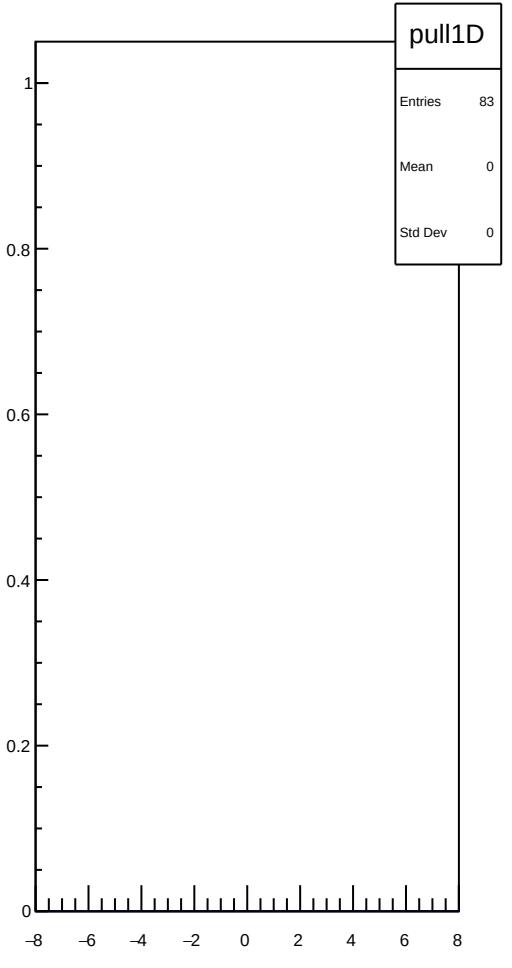

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 7.193e+25 / 82
p0 980.8 ± 1.098e−16
980.7545
980.754
980.7535
980.753
980.7525
980.752
980.7515
pull
Entries 83
Mean −1.379e+09
Std Dev 0
×10⁹
1000
500
0
−500
−1000
−1500

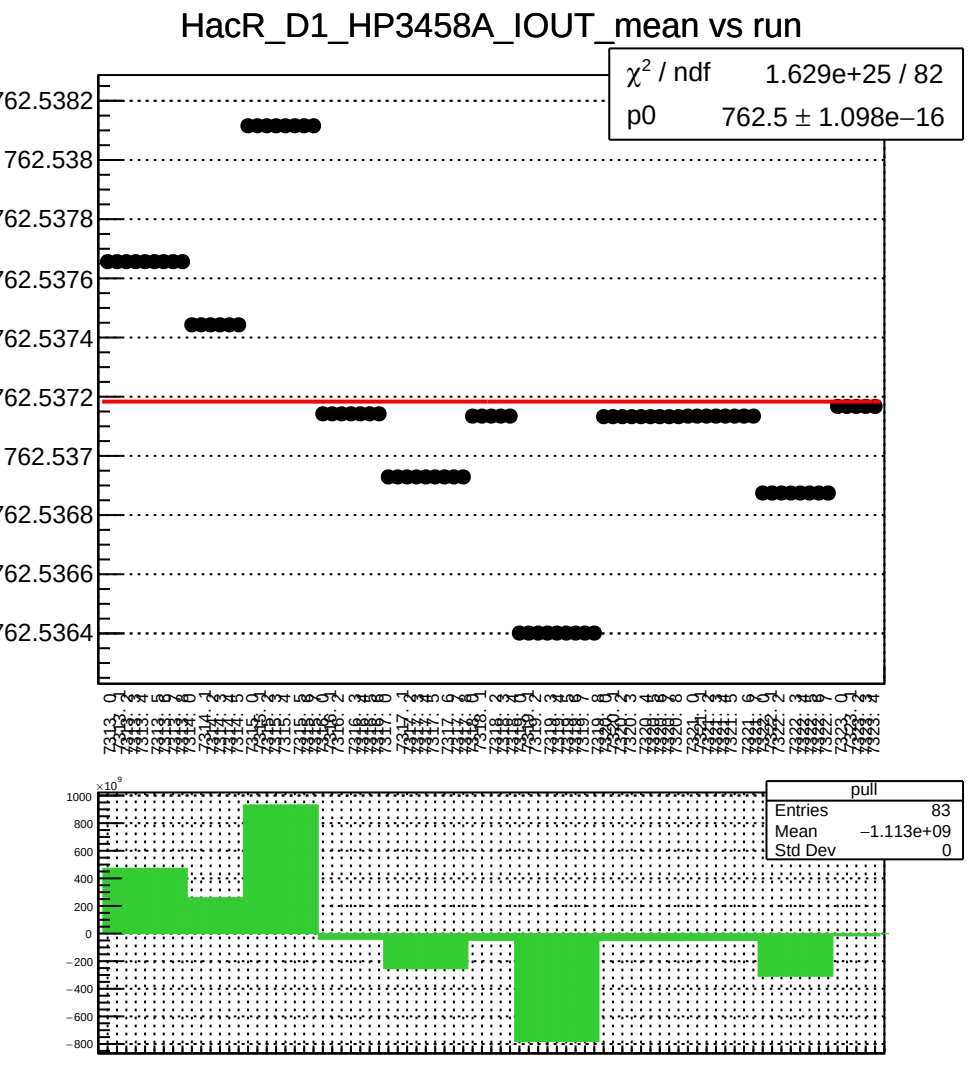

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

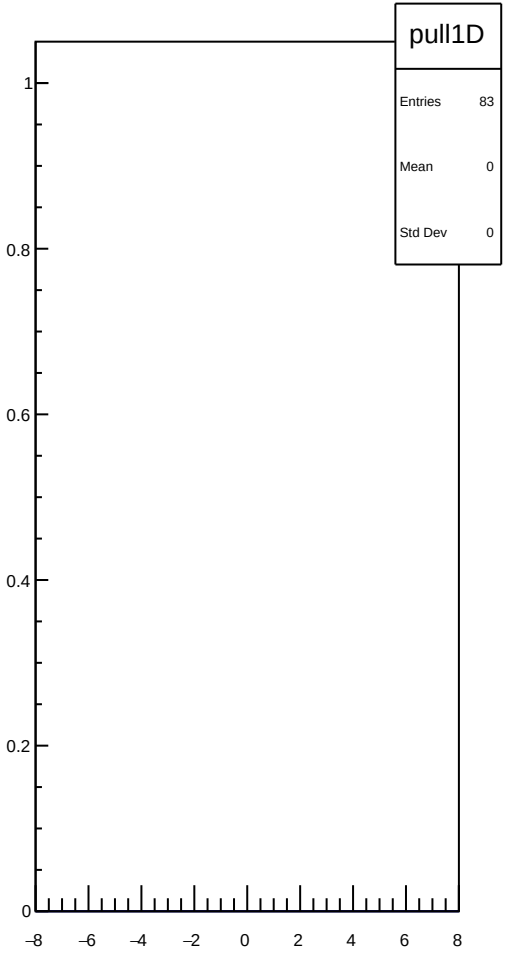

MQ172RM_mean vs run
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
×10⁻³
pull
Entries 83
Mean 41.5
Std Dev 23.96

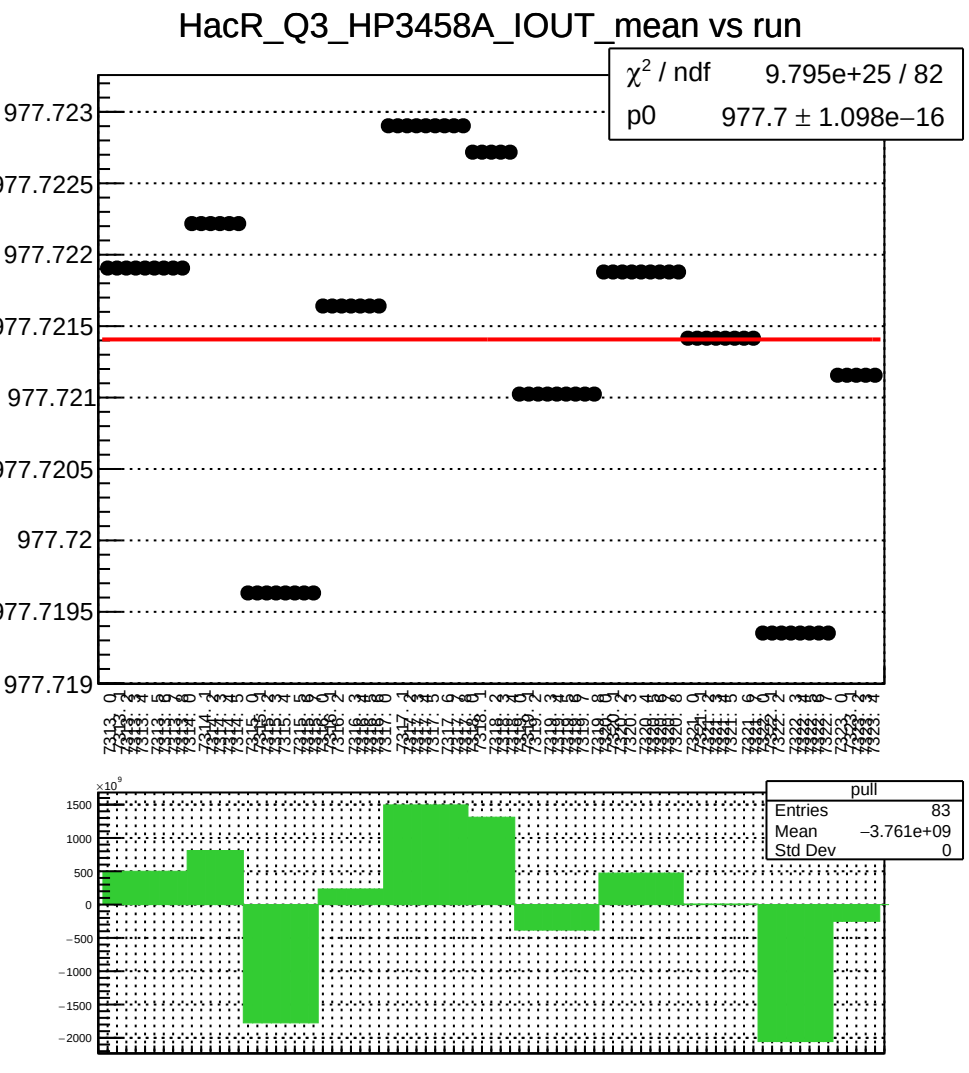

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

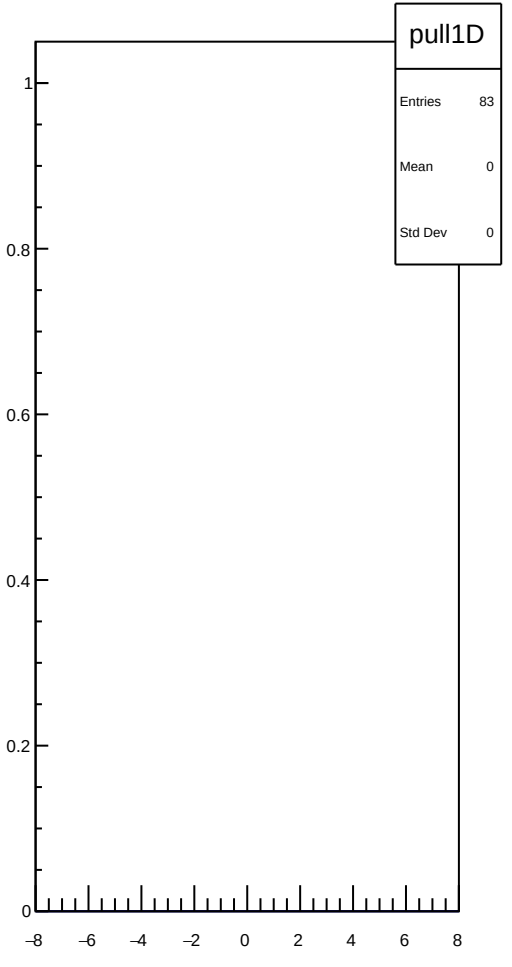

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.45e+27 / 82
p0 925 ± 1.098e−16
925.015
925.01
925.005
925
924.995
924.99
924.985
pull
Entries 83
Mean −1.345e+09
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15

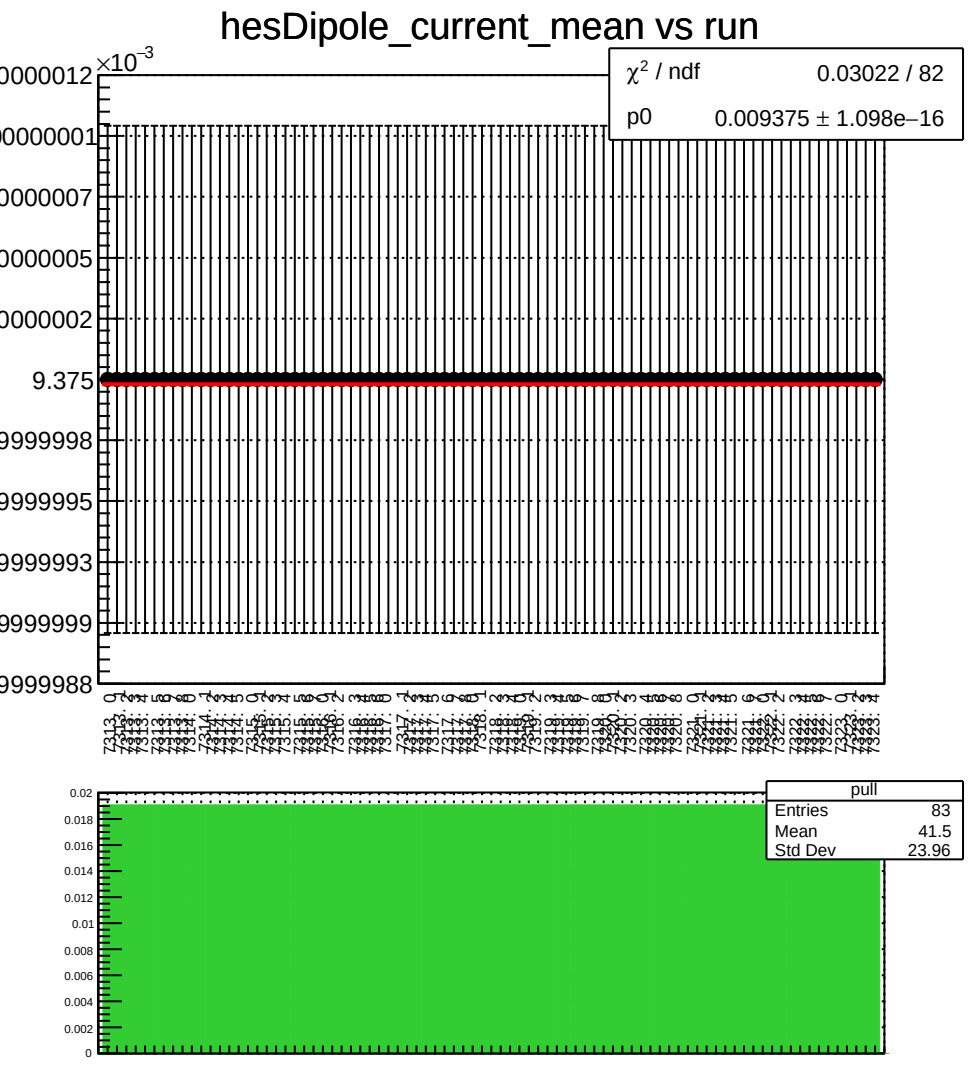

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

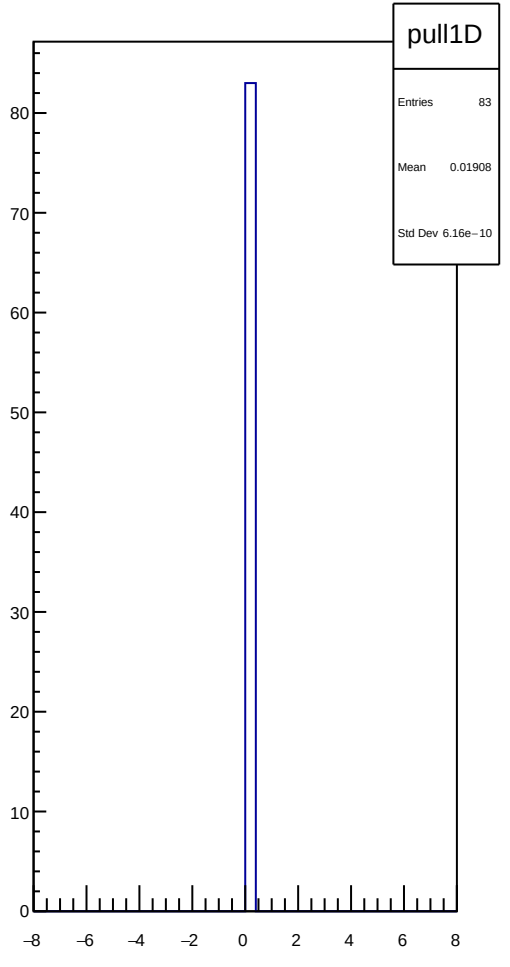

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.629e+25 / 82
p0 762.5 ± 1.098e−16
762.5382
762.538
762.5378
762.5376
762.5374
762.5372
762.537
762.5368
762.5366
762.5364
pull
Entries 83
Mean −1.113e+09
Std Dev 0
×10⁹
1000
800
600
400
200
0
−200
−400
−600
−800

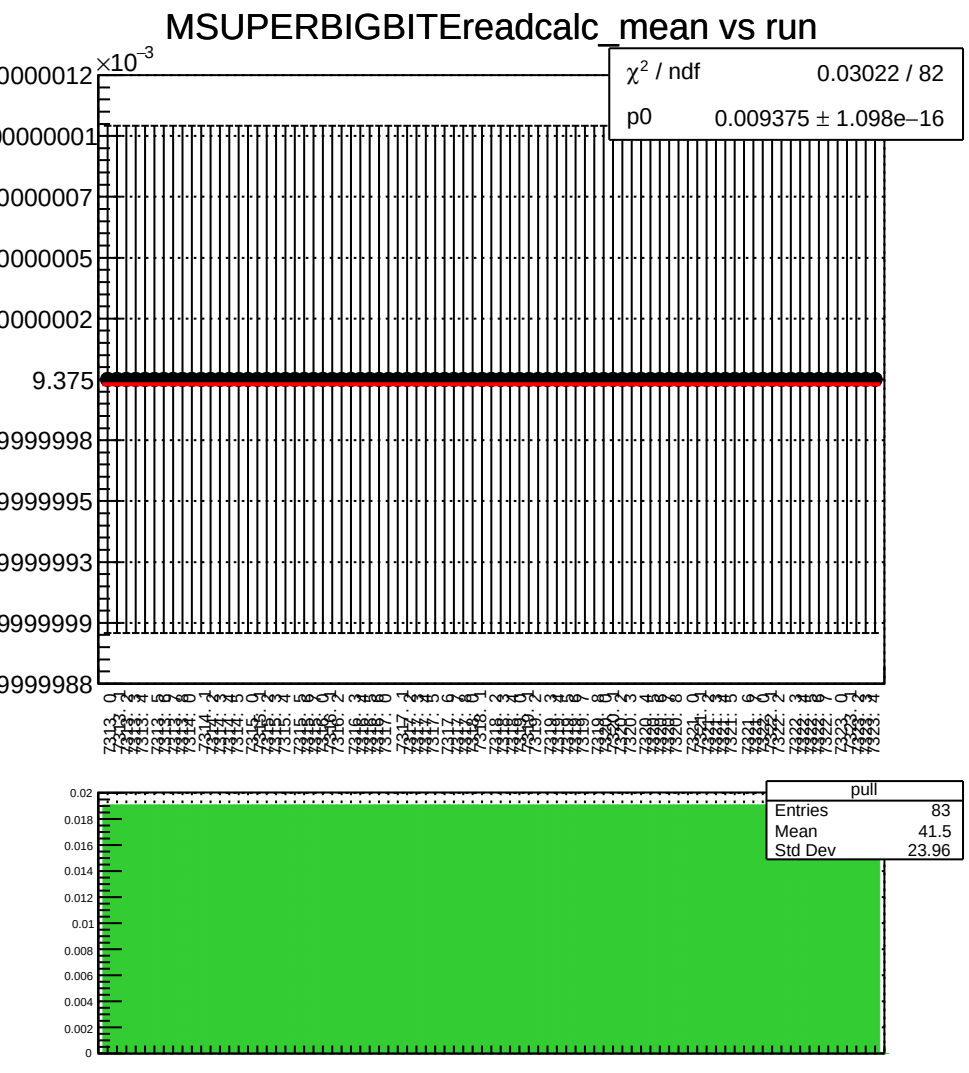

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

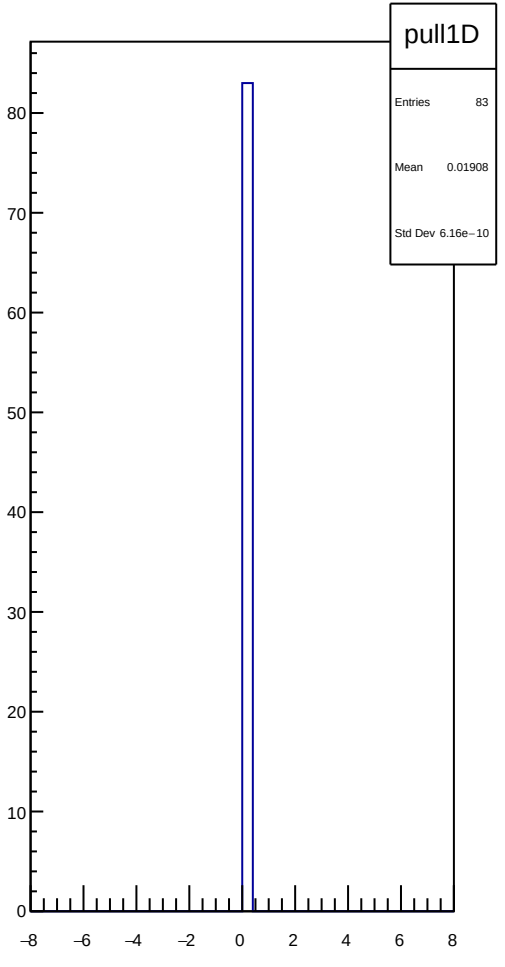

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.795e+25 / 82
p0 977.7 ± 1.098e−16
977.723
977.7225
977.722
977.7215
977.721
977.7205
977.72
977.7195
977.719
pull
Entries 83
Mean −3.761e+09
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000

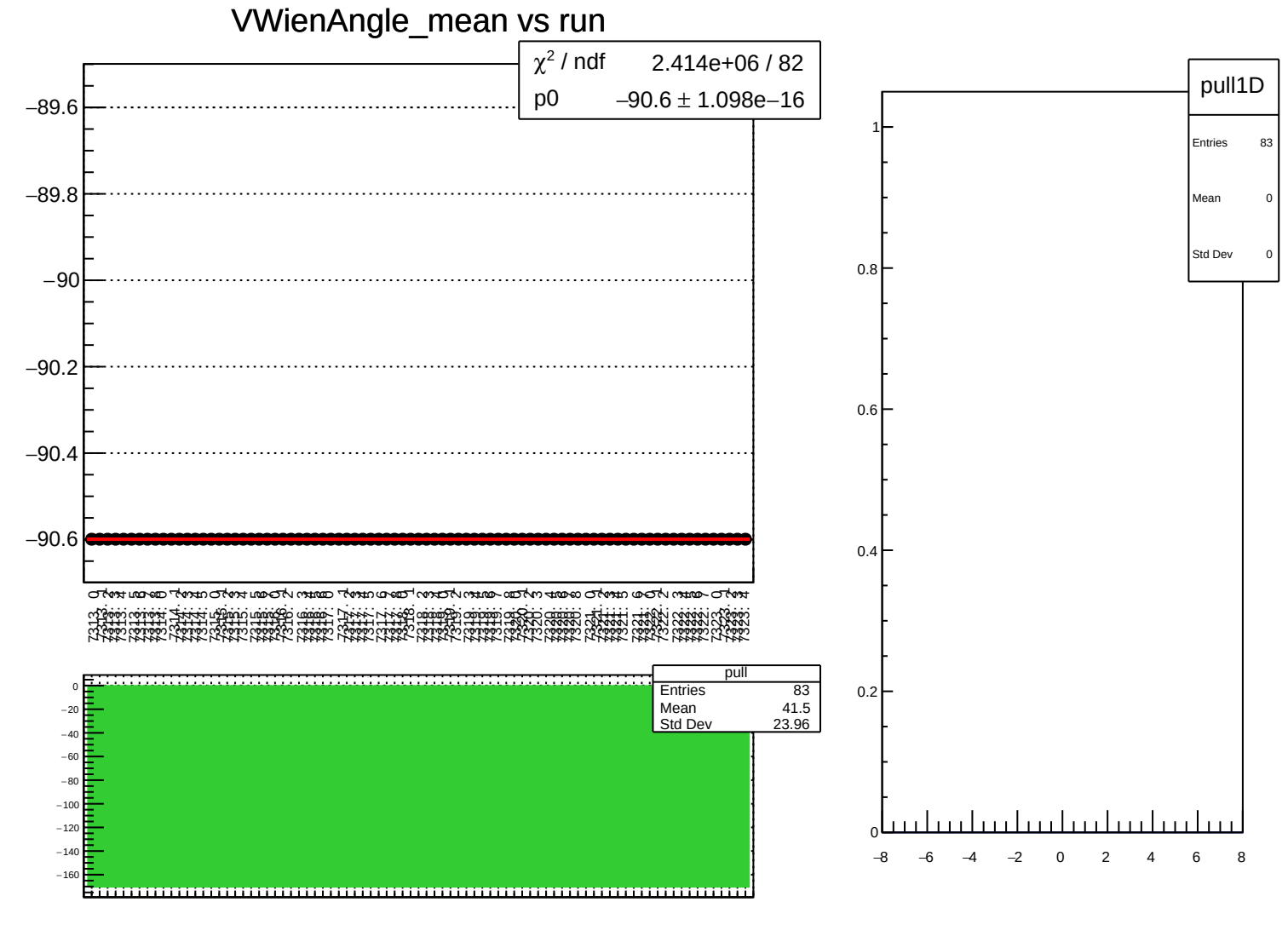

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

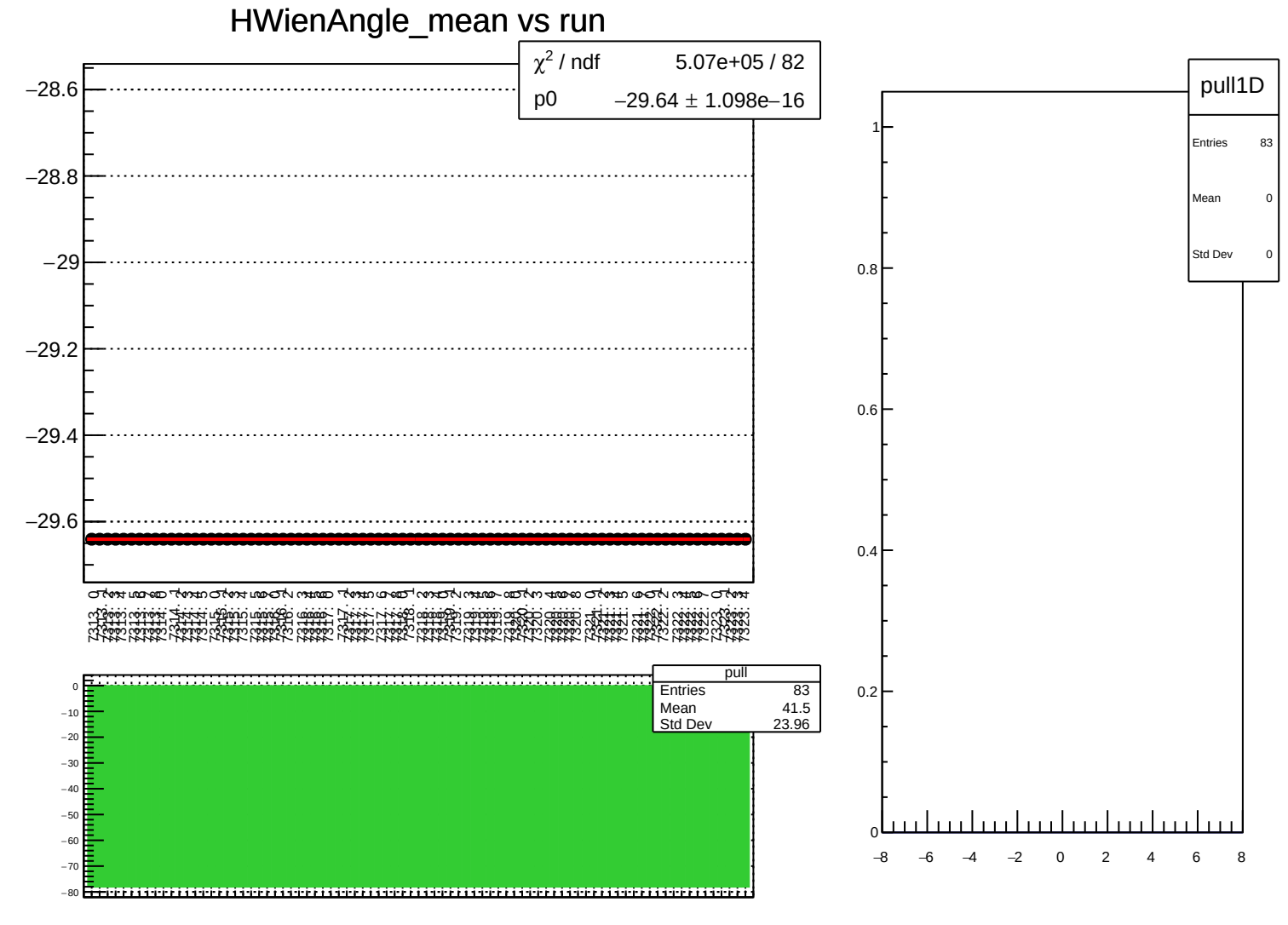

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
pull
Entries 83
Mean 41.5
Std Dev 23.96

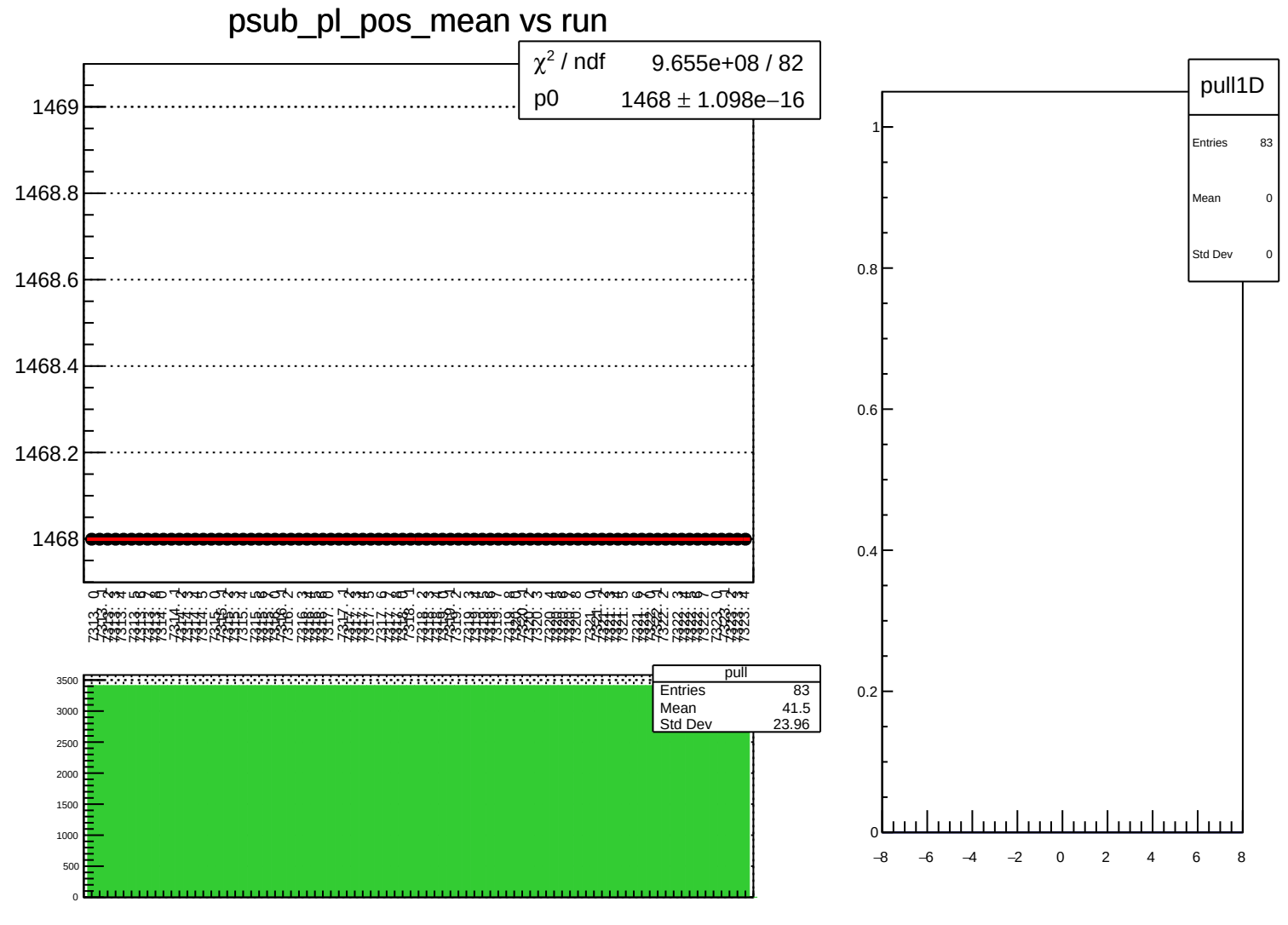

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

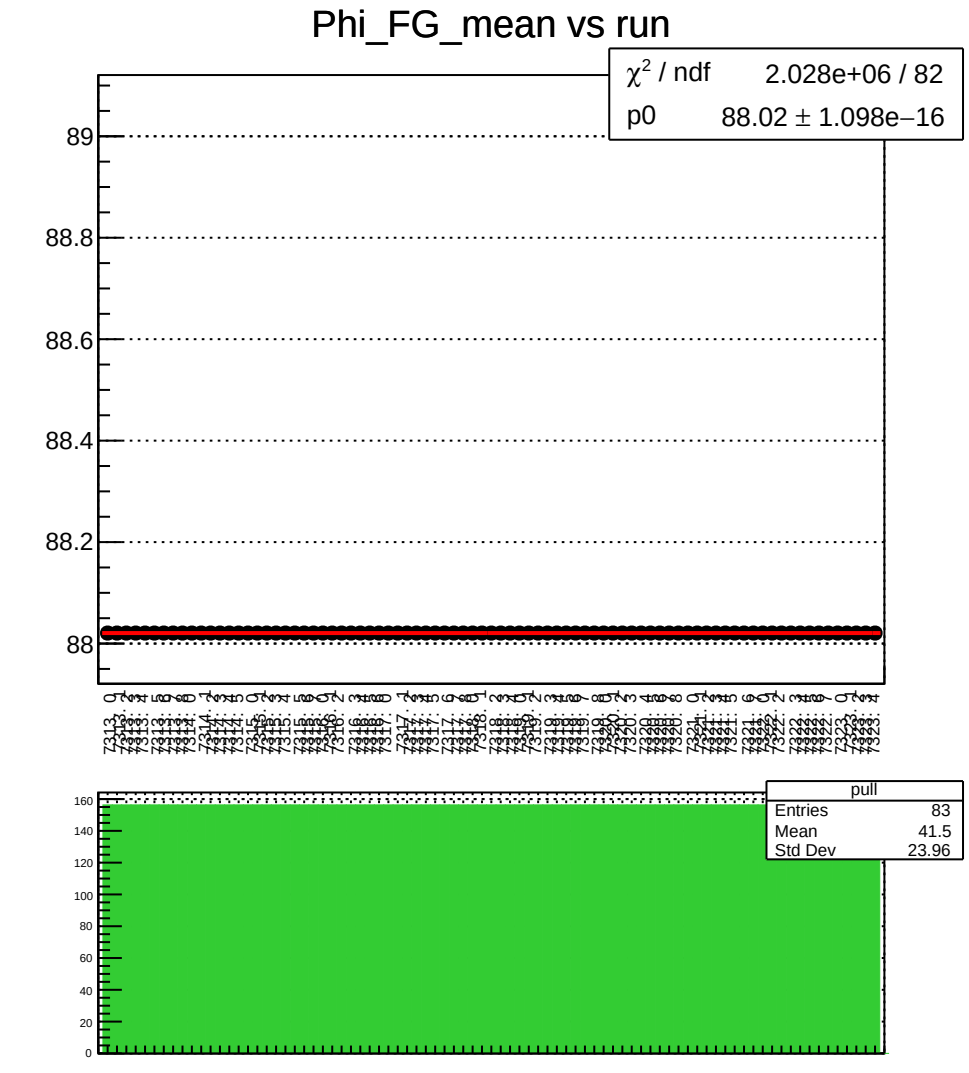

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
×10⁻³
pull
Entries 83
Mean 41.5
Std Dev 23.96

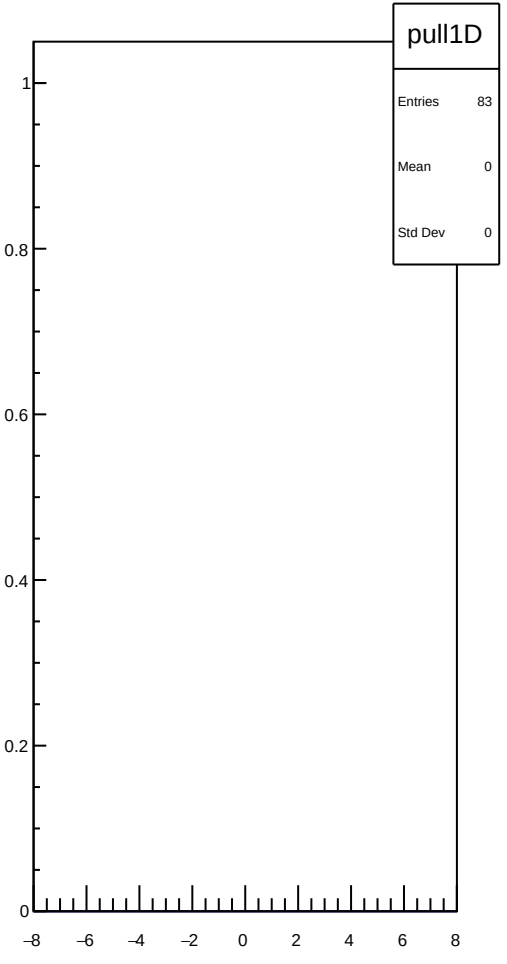

pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10

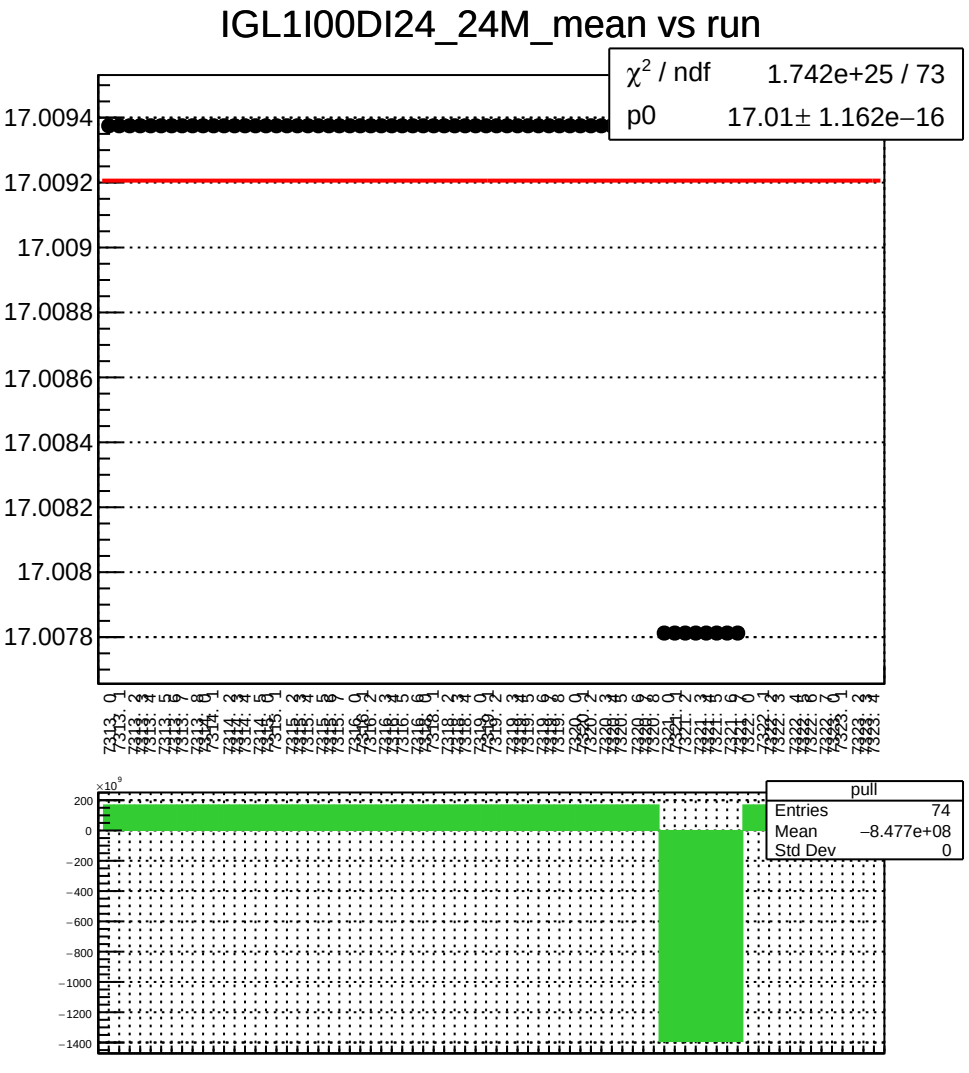

VWienAngle_mean vs run
χ² / ndf 2.414e+06 / 82
p0 −90.6 ± 1.098e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 83
Mean 41.5
Std Dev 23.96
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

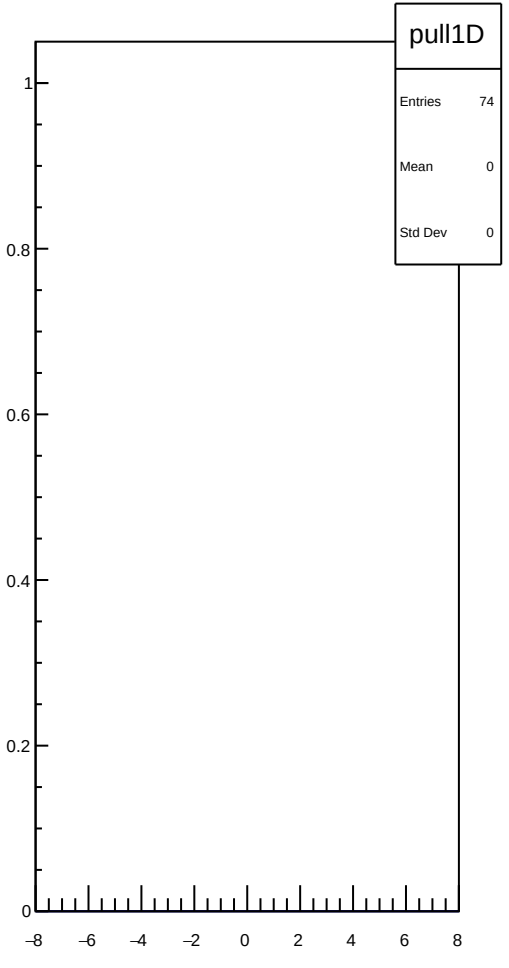

HWienAngle_mean vs run
χ² / ndf 5.07e+05 / 82
p0 −29.64 ± 1.098e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 83
Mean 41.5
Std Dev 23.96
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

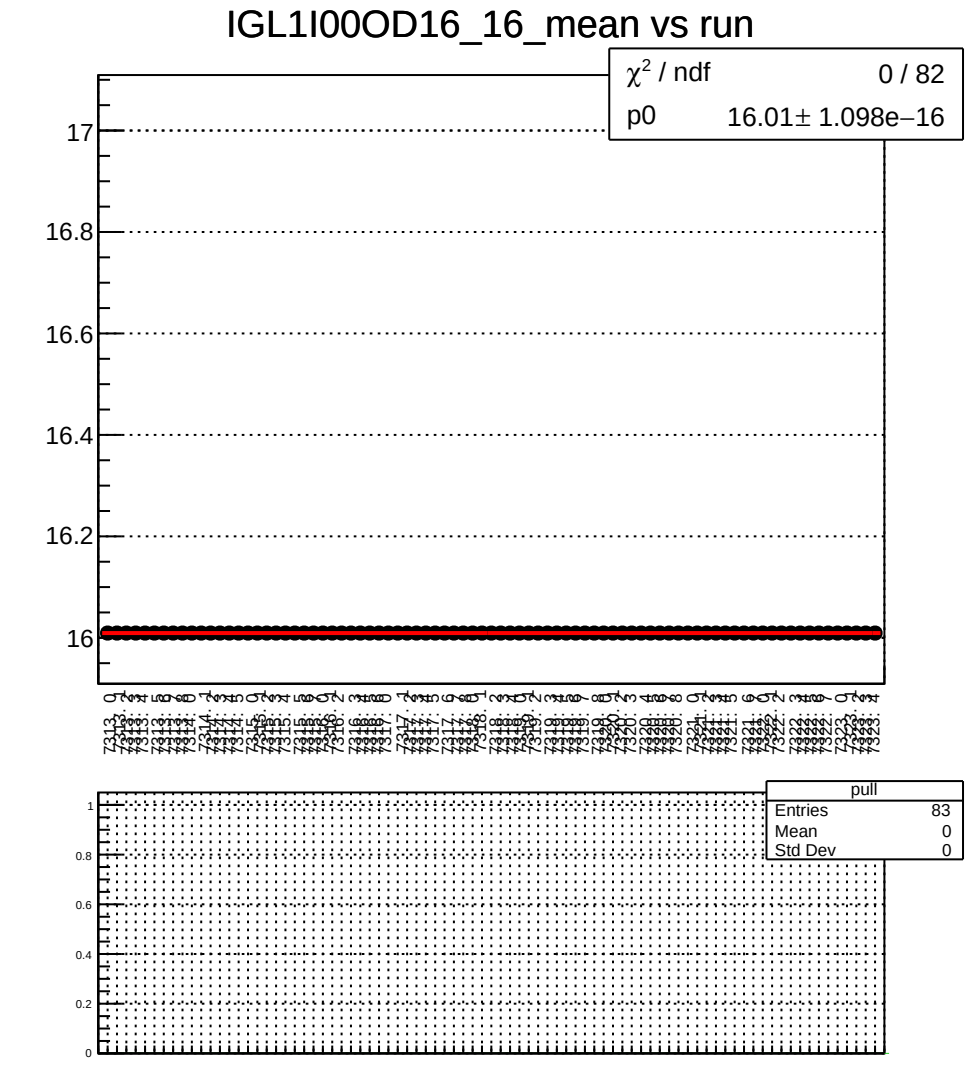

psub_pl_pos_mean vs run
χ² / ndf 9.655e+08 / 82
p0 1468 ± 1.098e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 83
Mean 41.5
Std Dev 23.96
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

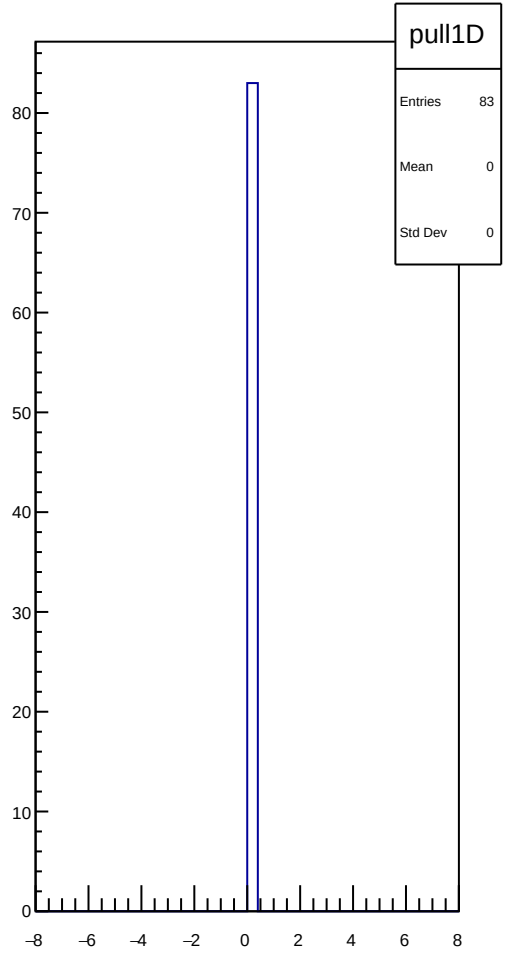

Phi_FG_mean vs run
χ² / ndf 2.028e+06 / 82
p0 88.02 ± 1.098e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 83
Mean 41.5
Std Dev 23.96
160
140
120
100
80
60
40
20
0

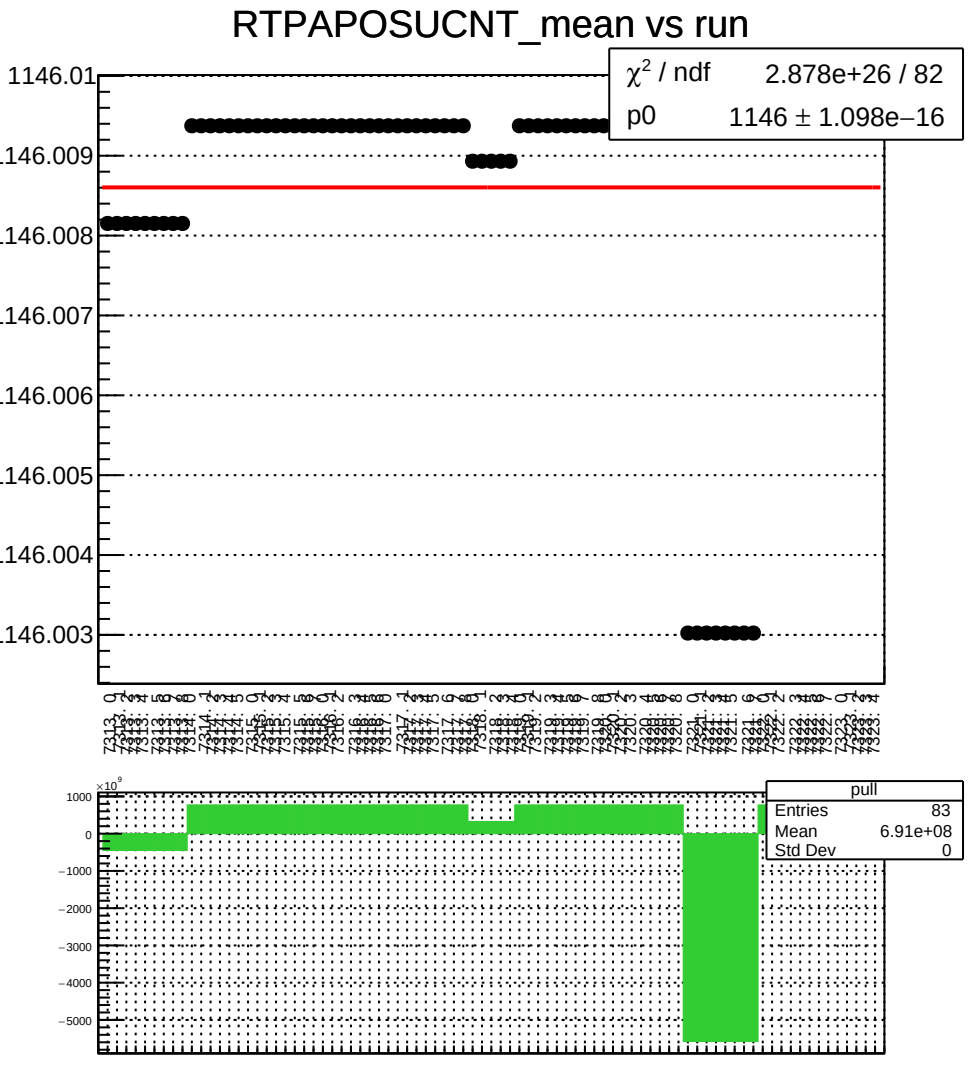

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

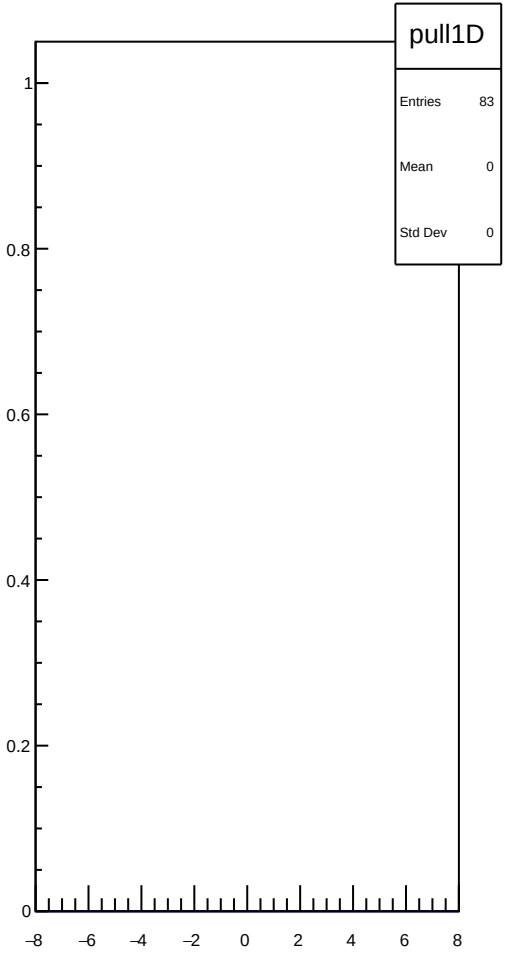

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.742e+25 / 73
p0 17.01± 1.162e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 74
Mean −8.477e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

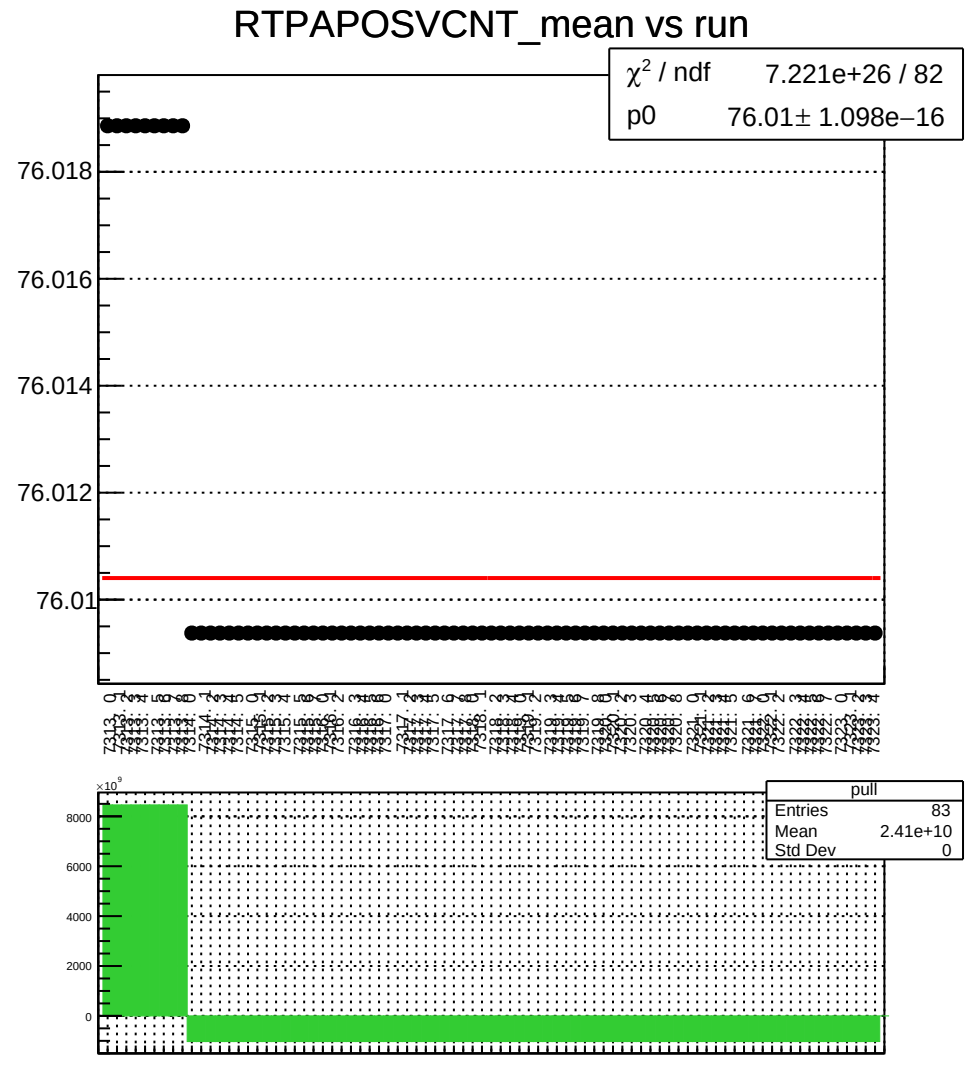

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

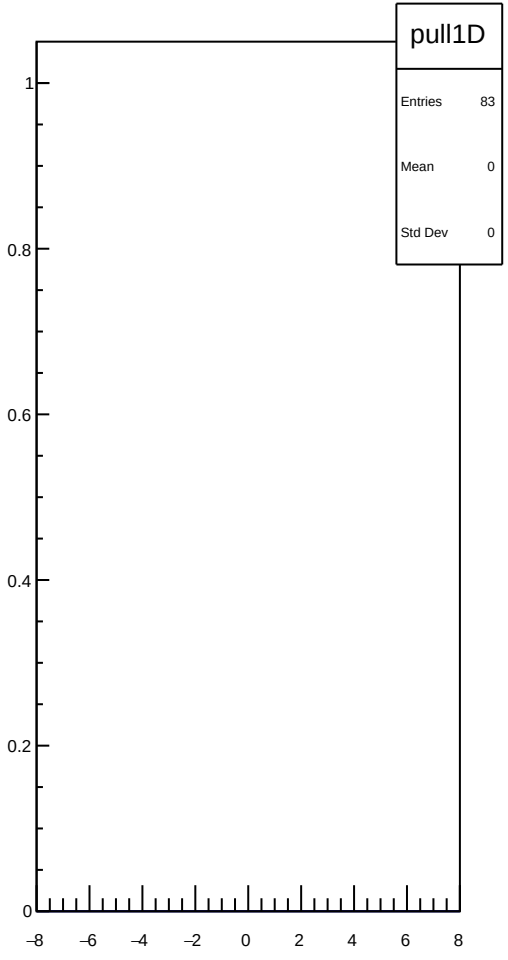

IGL1I00OD16_16_mean vs run
χ² / ndf 0 / 82
p0 16.01± 1.098e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

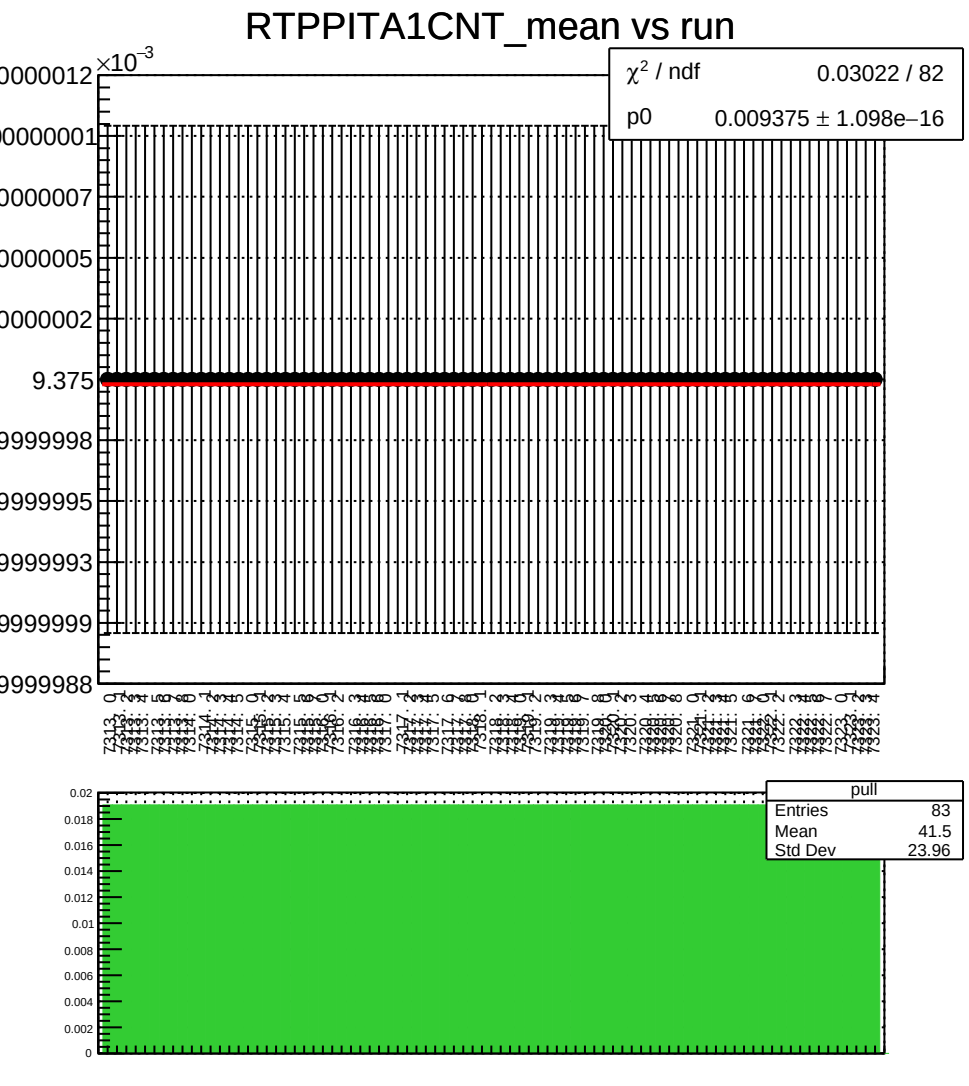

pull1D
Entries 83
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

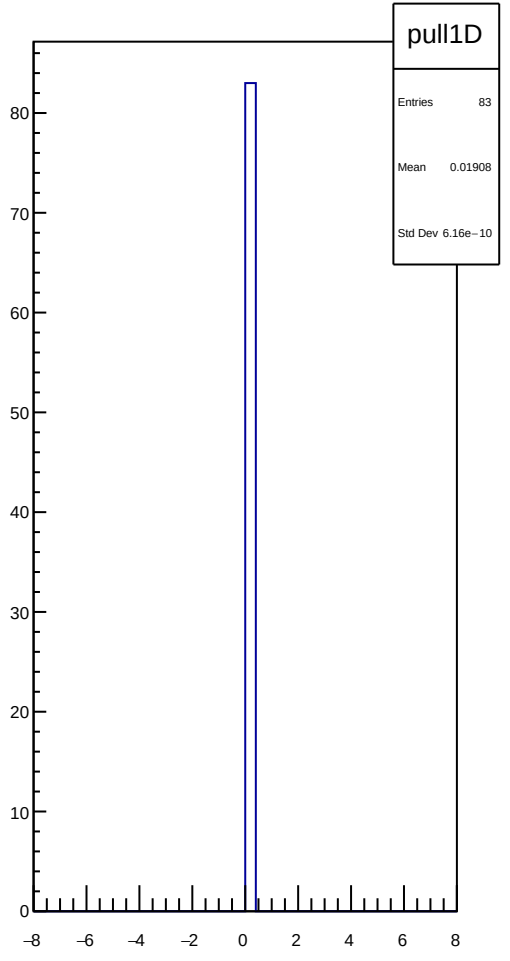

RTPAPOSUCNT_mean vs run
χ² / ndf 2.878e+26 / 82
p0 1146 ± 1.098e−16
1146.01
1146.009
1146.008
1146.007
1146.006
1146.005
1146.004
1146.003
pull
Entries 83
Mean 6.91e+08
Std Dev 0
×10⁹
1000
0
−1000
−2000
−3000
−4000
−5000

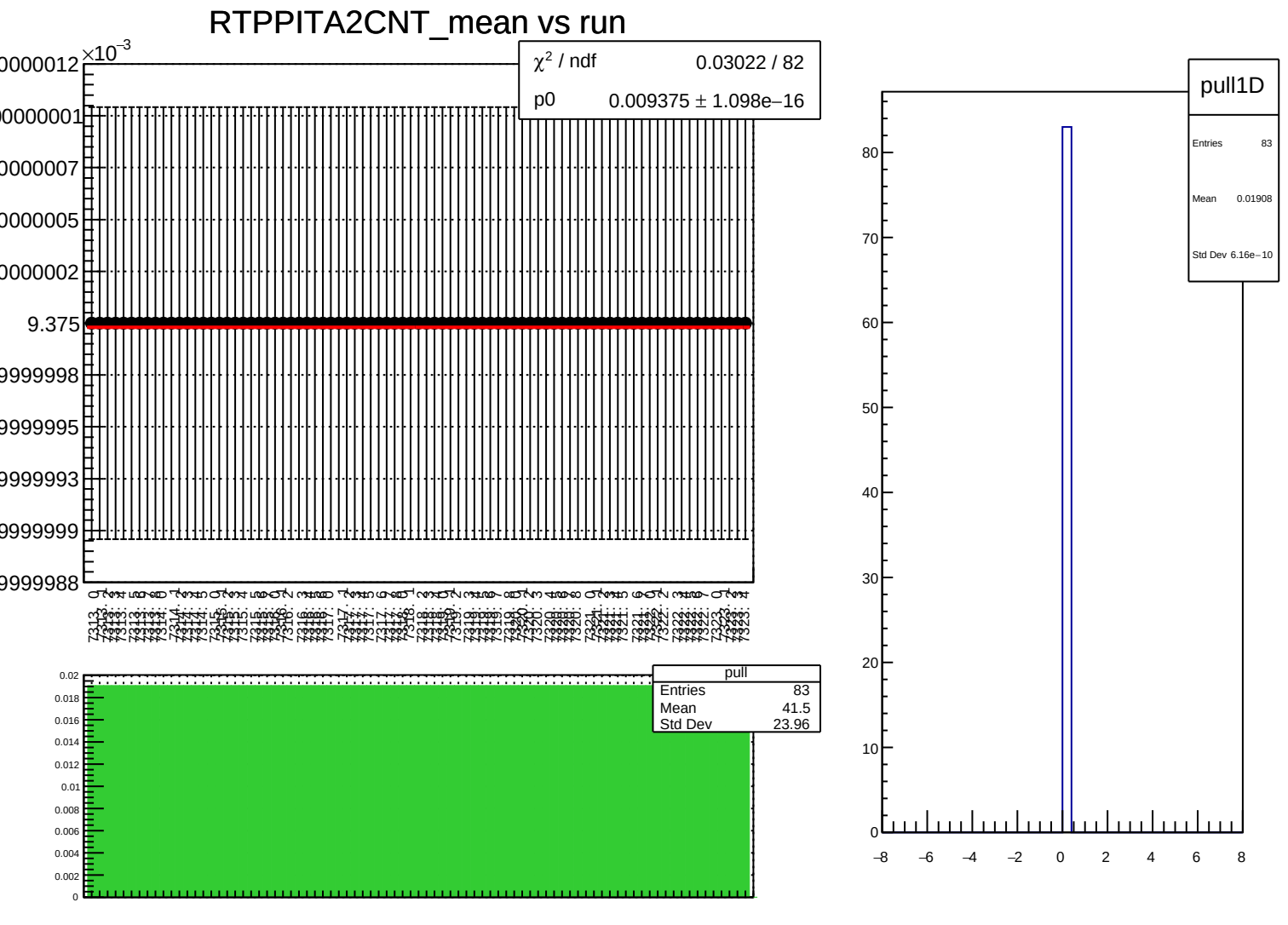

pull1D
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 7.221e+26 / 82
p0 76.01± 1.098e−16
76.018
76.016
76.014
76.012
76.01
×10⁹
8000
6000
4000
2000
0
pull
Entries 83
Mean 2.41e+10
Std Dev 0


pull1D
Entries 83
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 0.03022 / 82
p0 0.009375 ± 1.098e−16
×10⁻³
9.375
pull
Entries 83
Mean 41.5
Std Dev 23.96


pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.03022 / 82
p0 0.009375 ± 1.098e−16
9.375
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 0.01908
Std Dev 6.16e−10