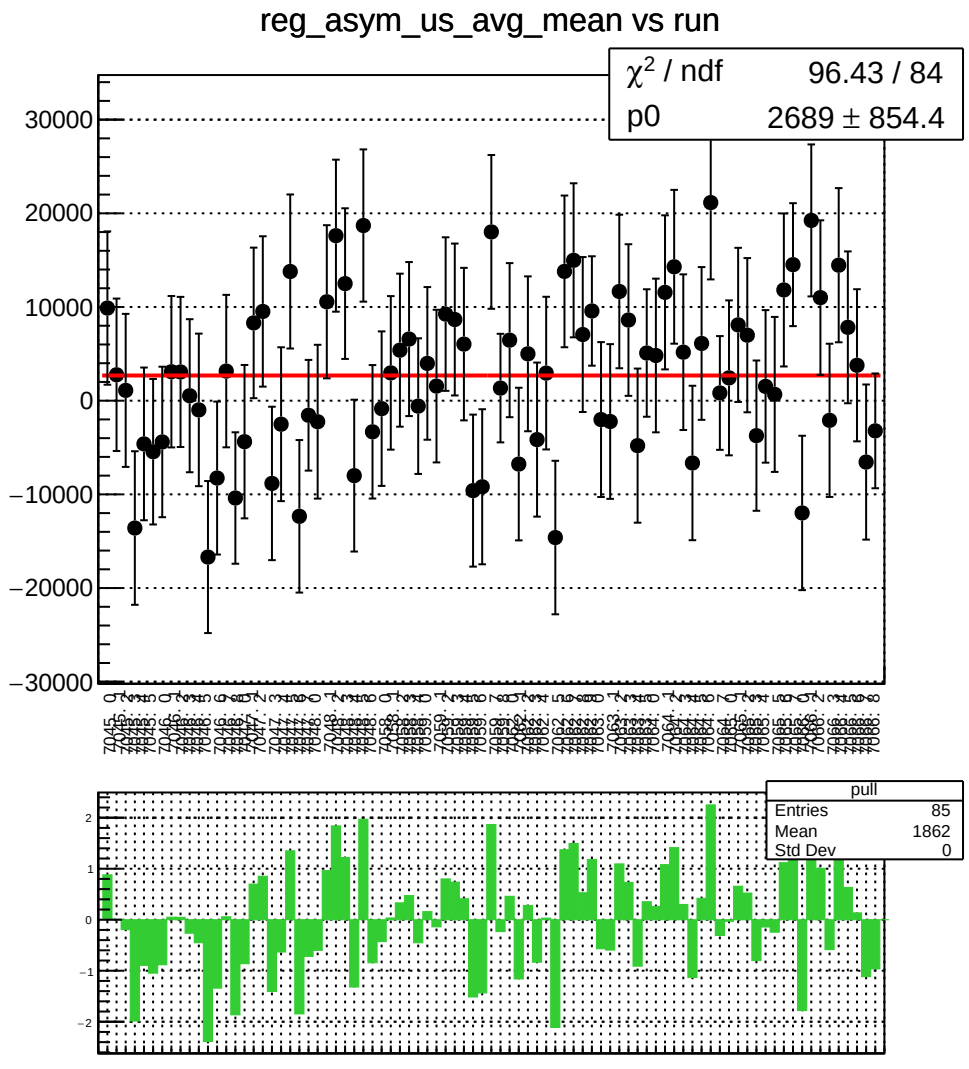
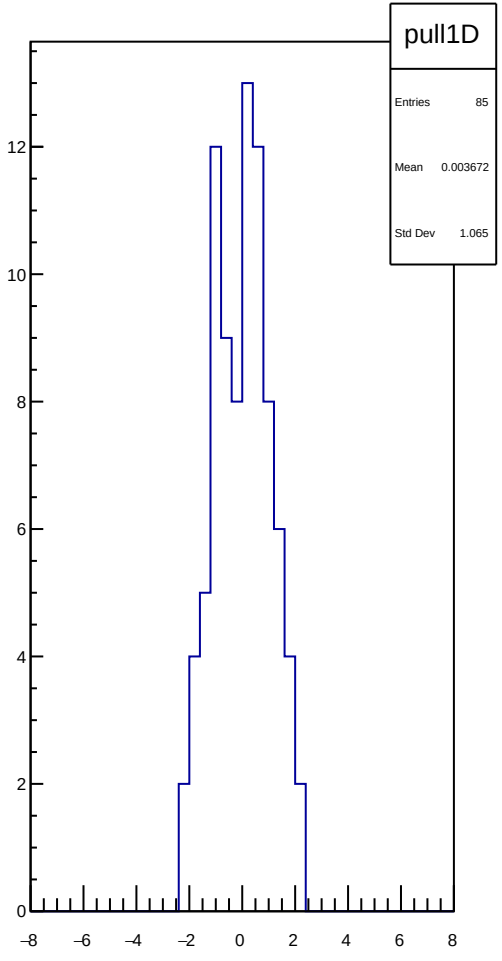
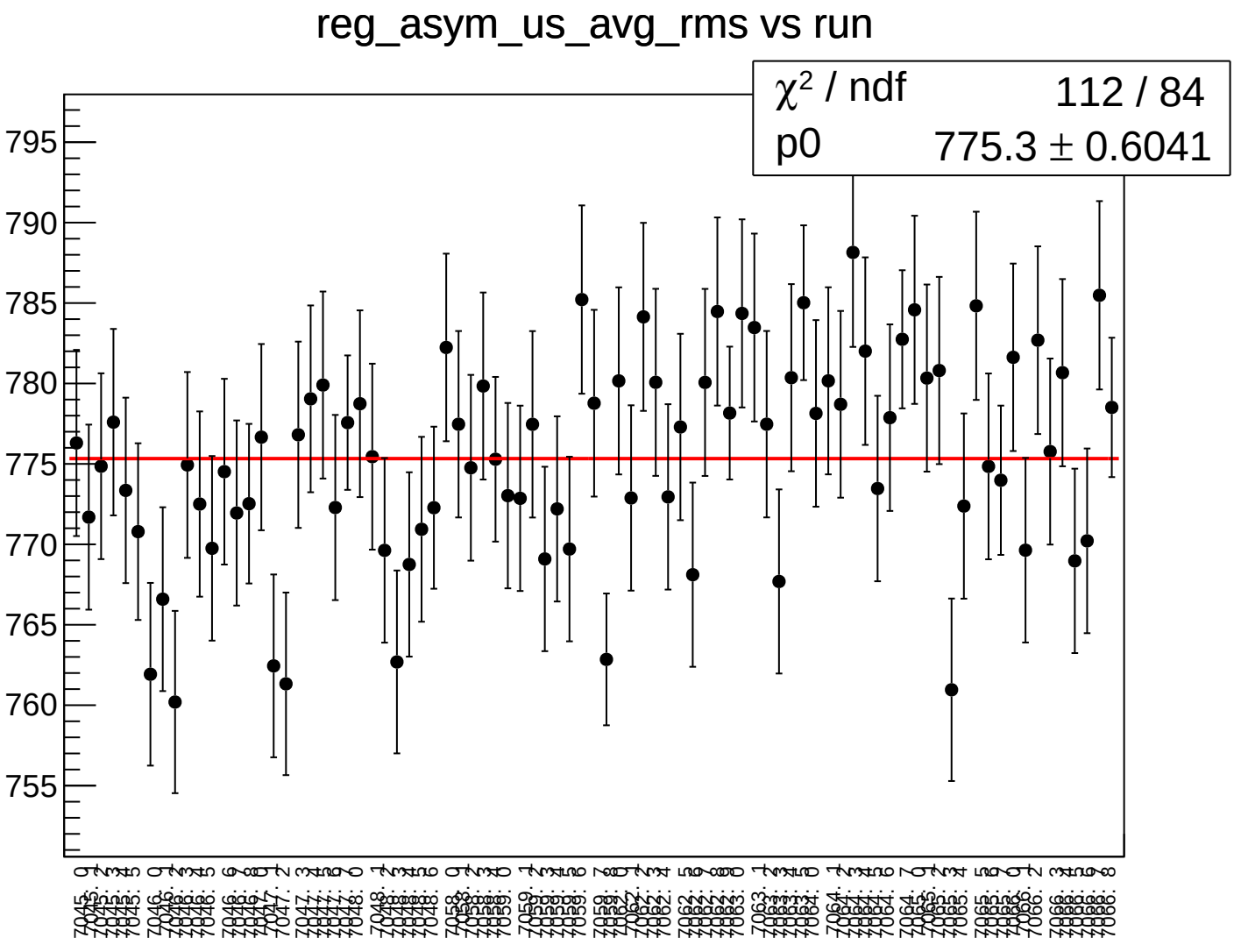
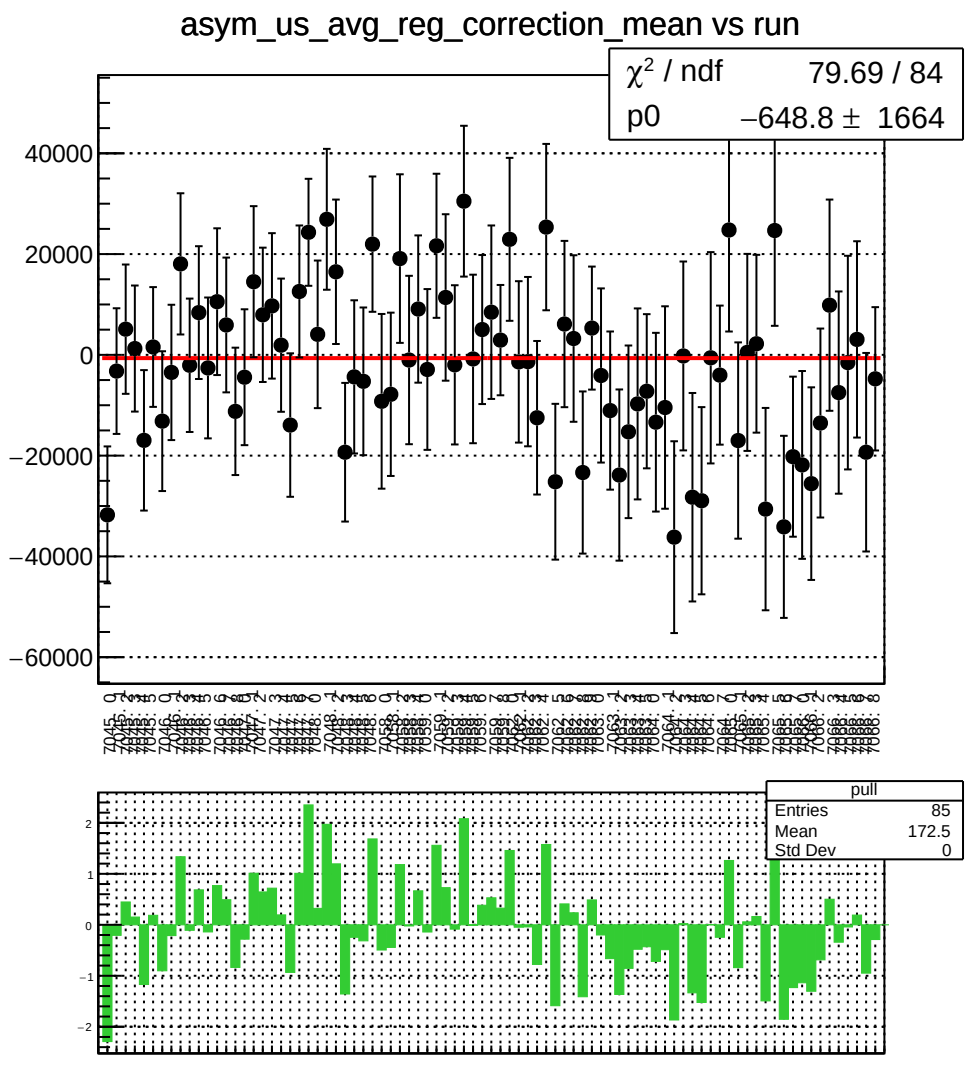
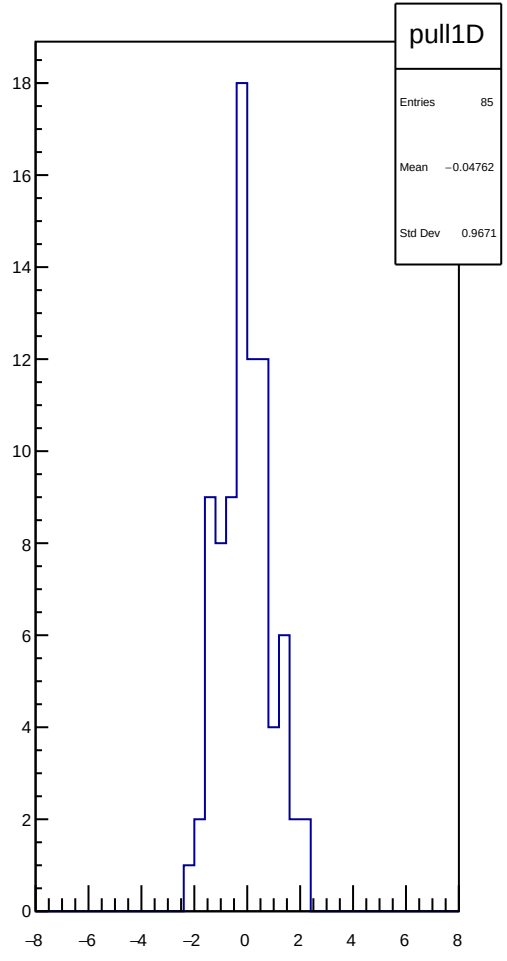
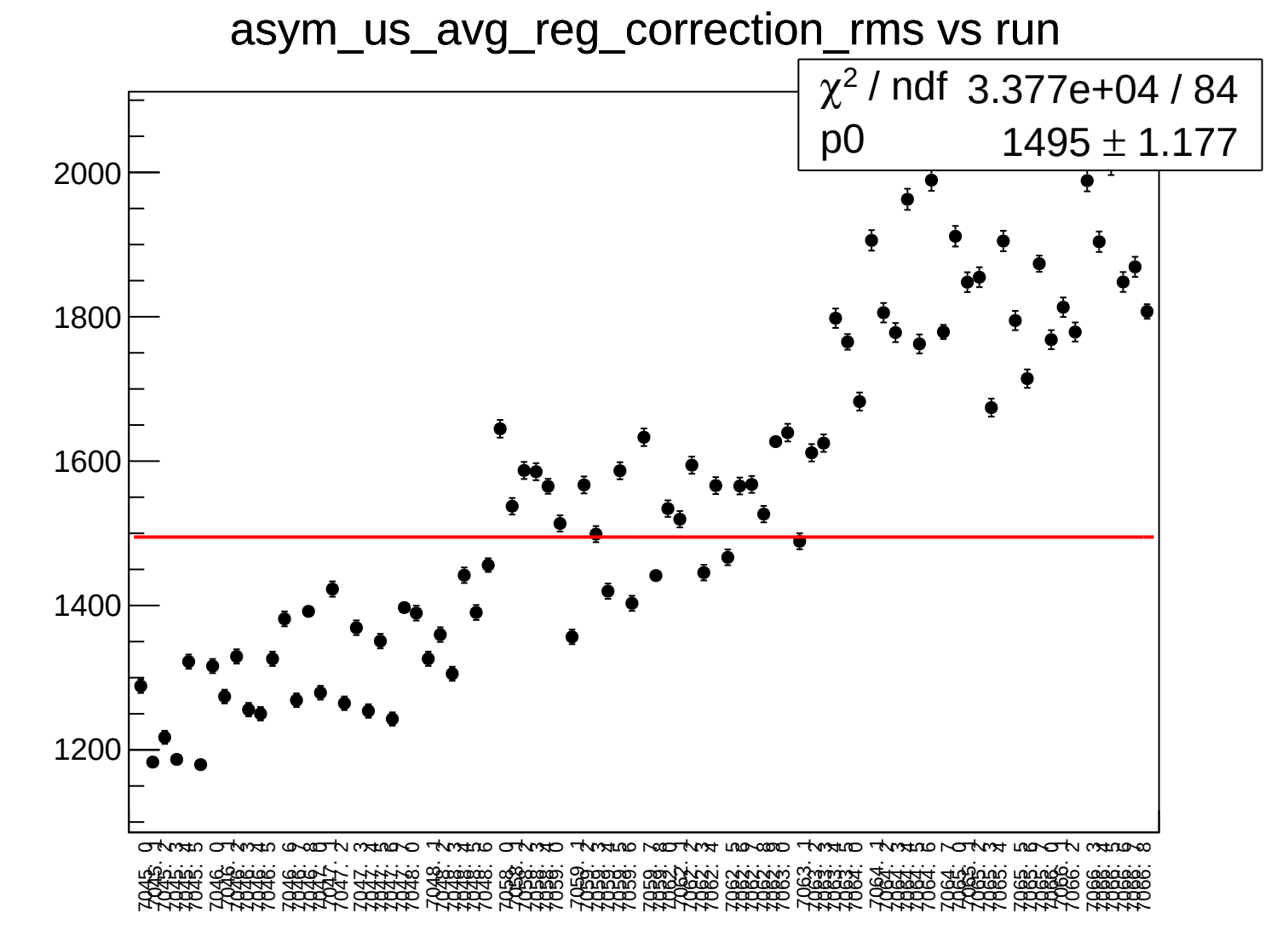

reg_asym_us_avg_mean vs run
χ² / ndf 96.43 / 84
p0 2689 ± 854.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1862
Std Dev 0
2
1
0
−1
−2

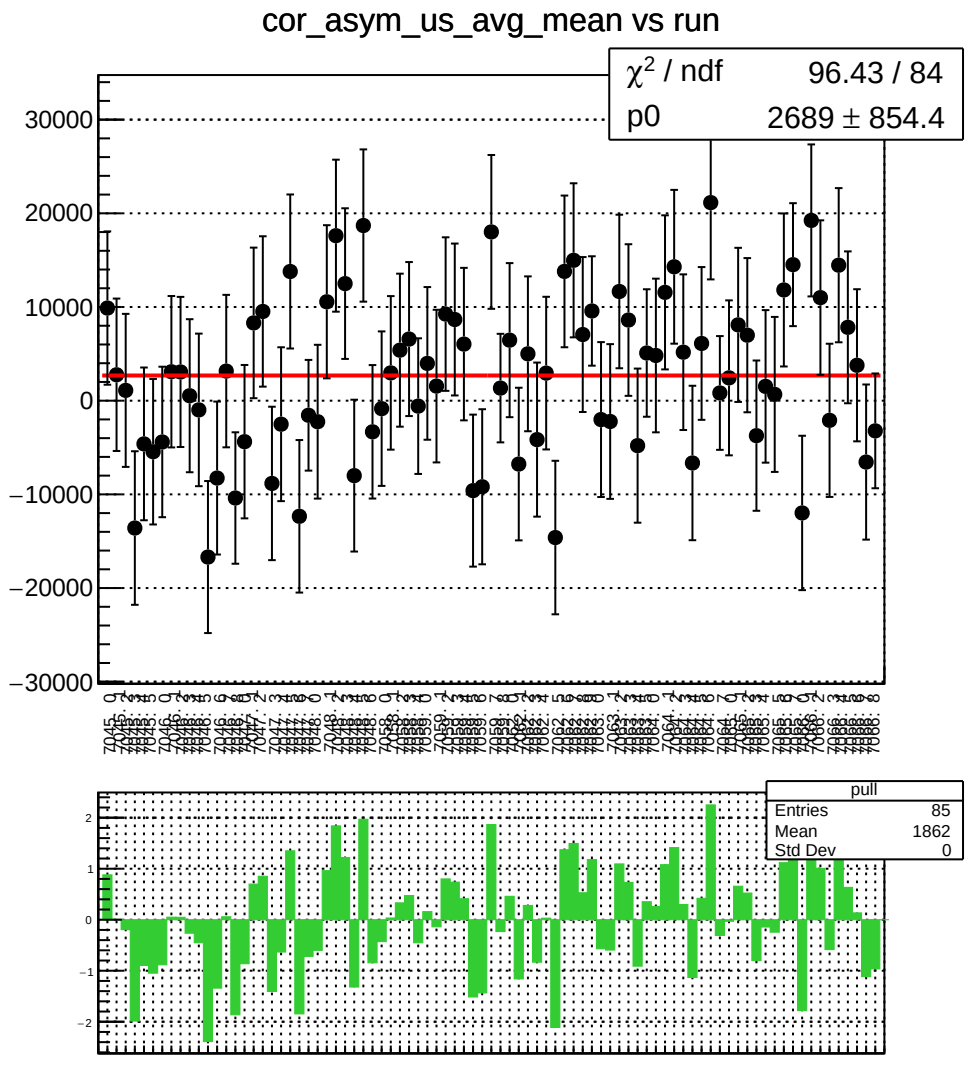

pull1D
Entries 85
Mean 0.003672
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

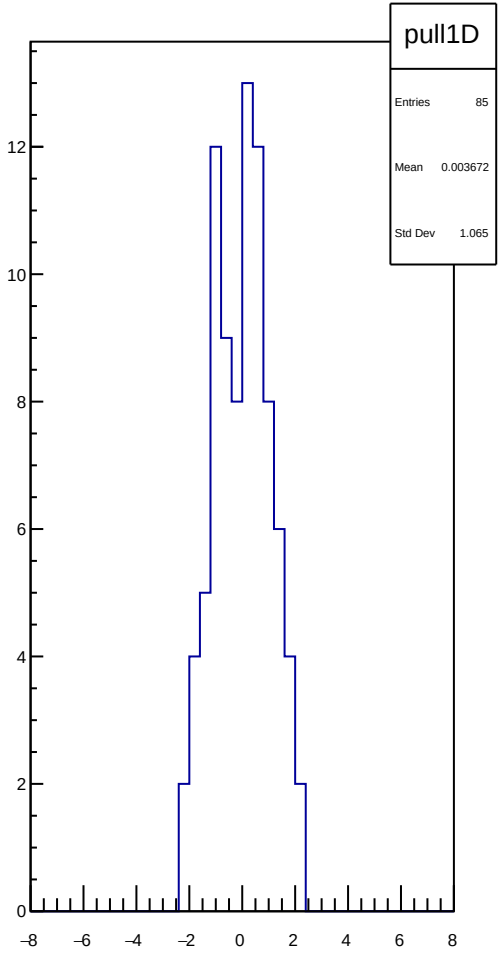

reg_asym_us_avg_rms vs run
χ² / ndf 112 / 84
p0 775.3 ± 0.6041
795
790
785
780
775
770
765
760
755

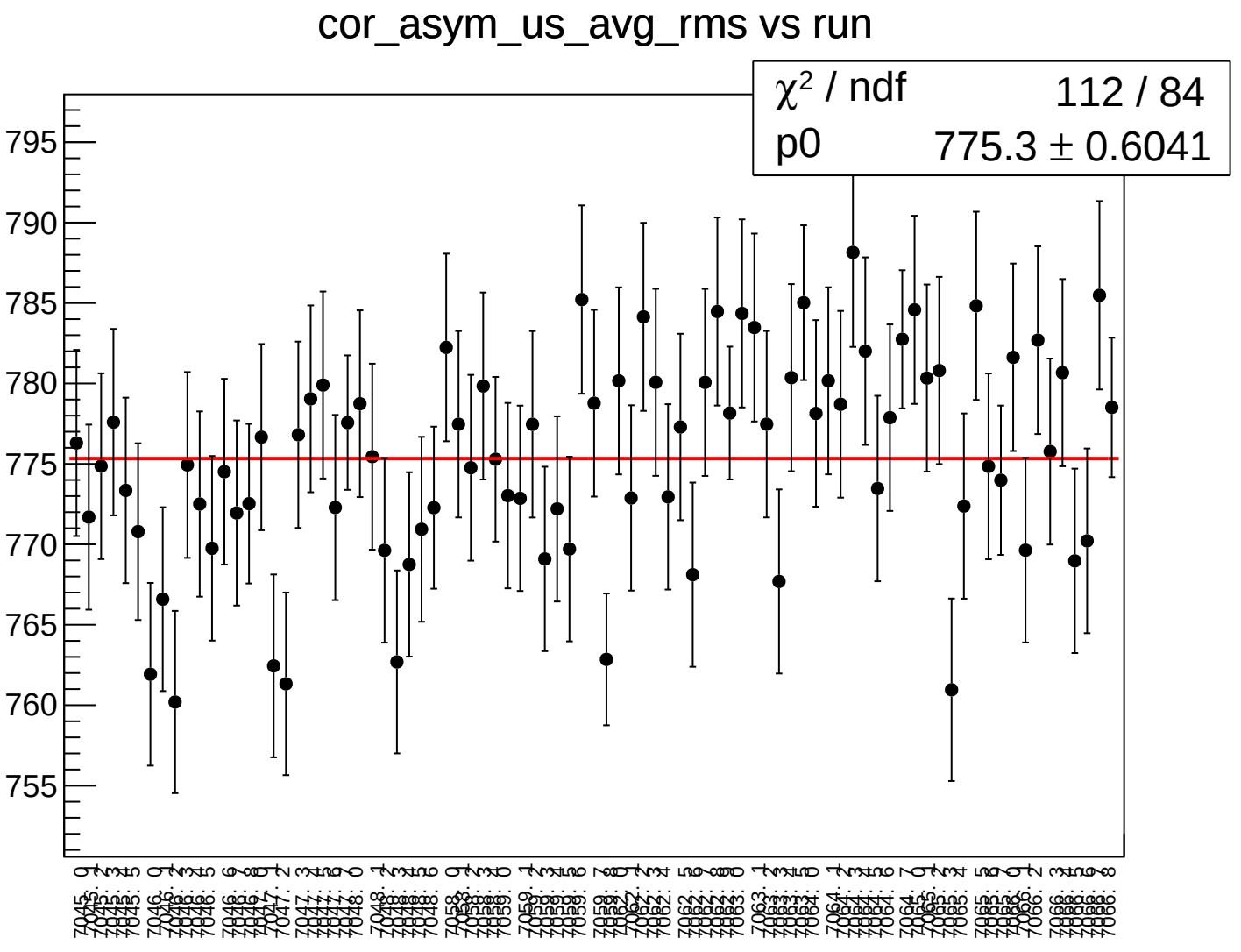

asym_us_avg_reg_correction_mean vs run
χ² / ndf 79.69 / 84
p0 −648.8 ± 1664
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 172.5
Std Dev 0
2
1
0
−1
−2

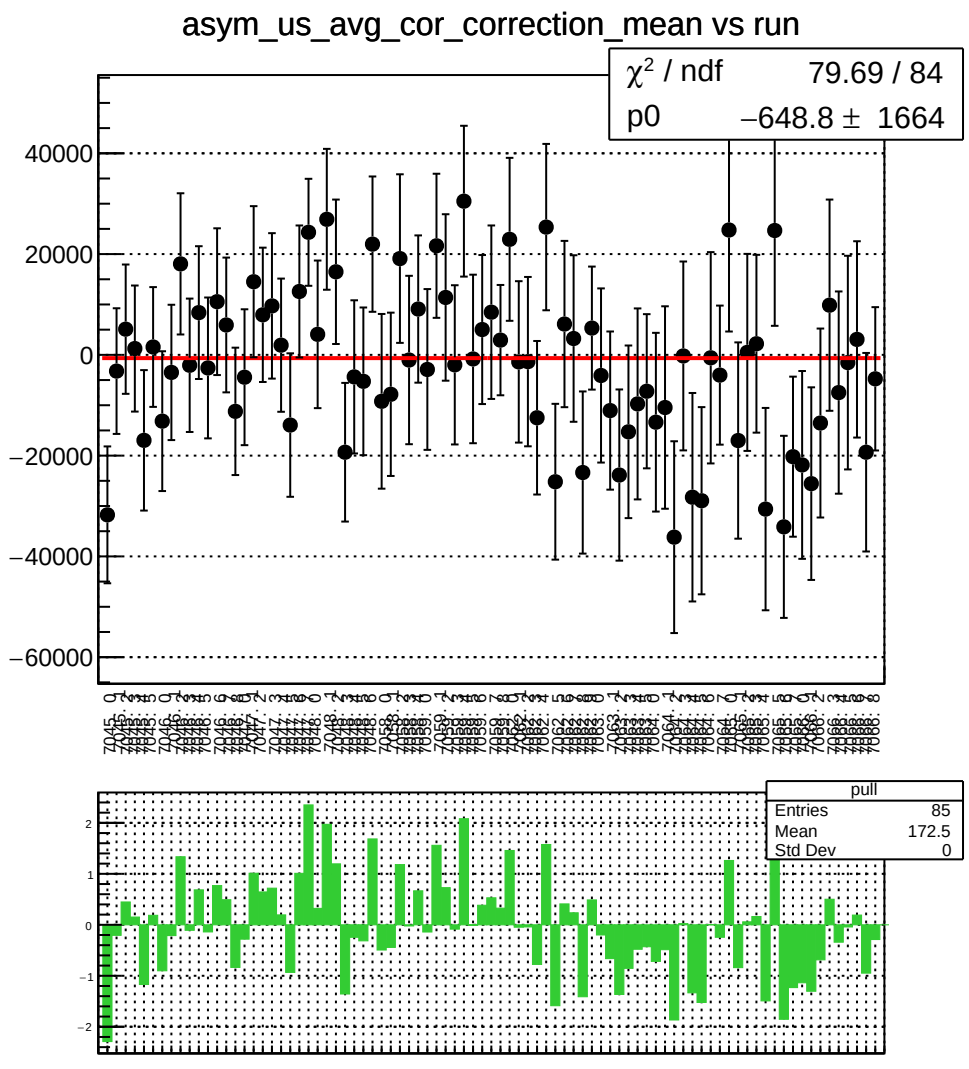

pull1D
Entries 85
Mean −0.04762
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

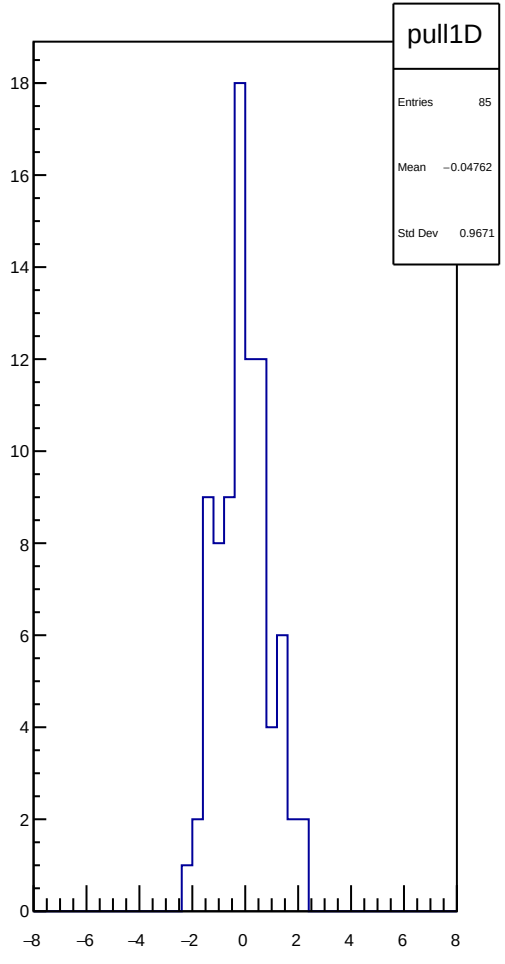

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3.377e+04 / 84
p0 1495 ± 1.177
2000
1800
1600
1400
1200

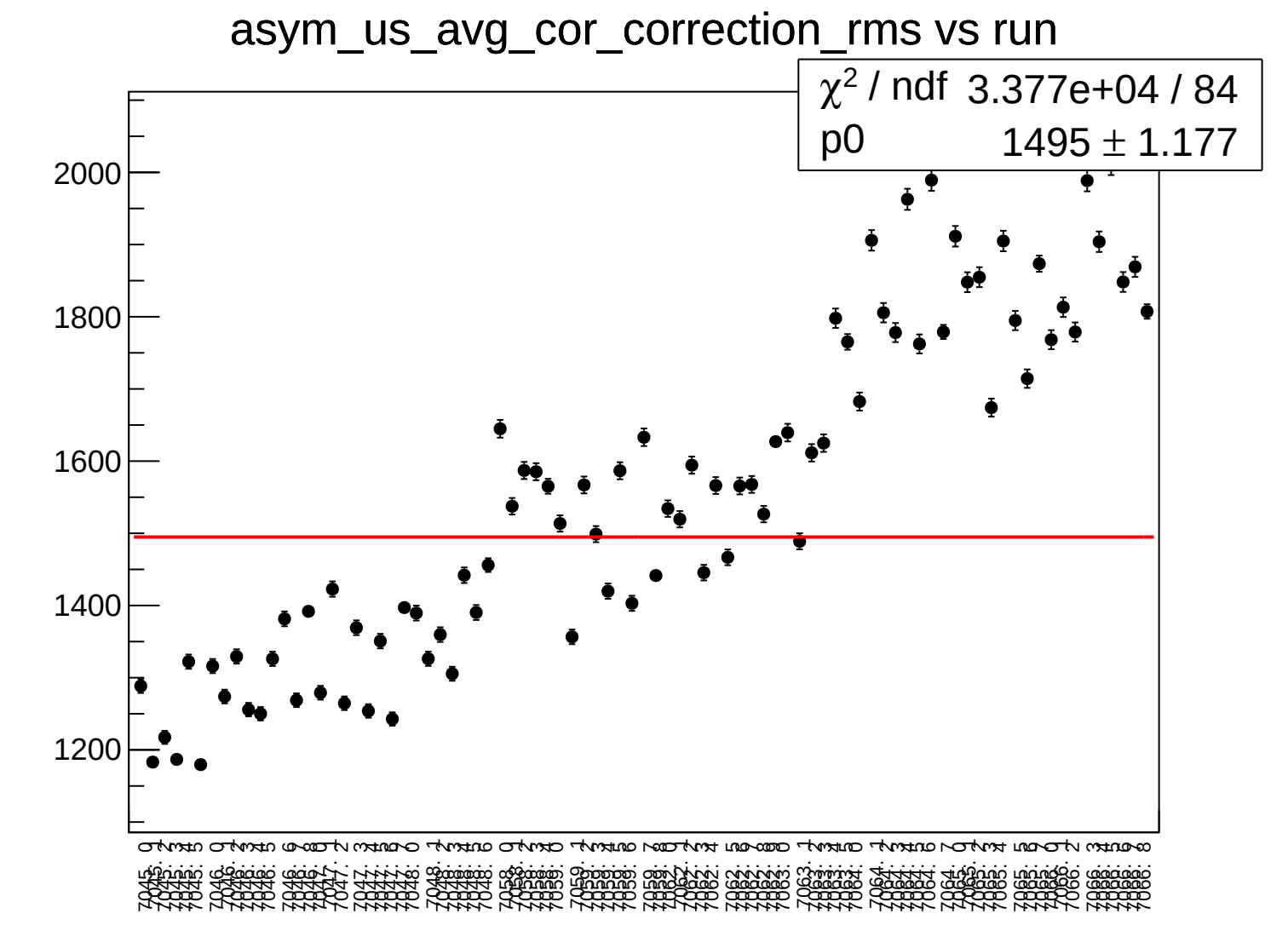

cor_asym_us_avg_mean vs run
χ^2 / ndf 96.43 / 84
p0 2689 ± 854.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1862
Std Dev 0
2
1
0
−1
−2

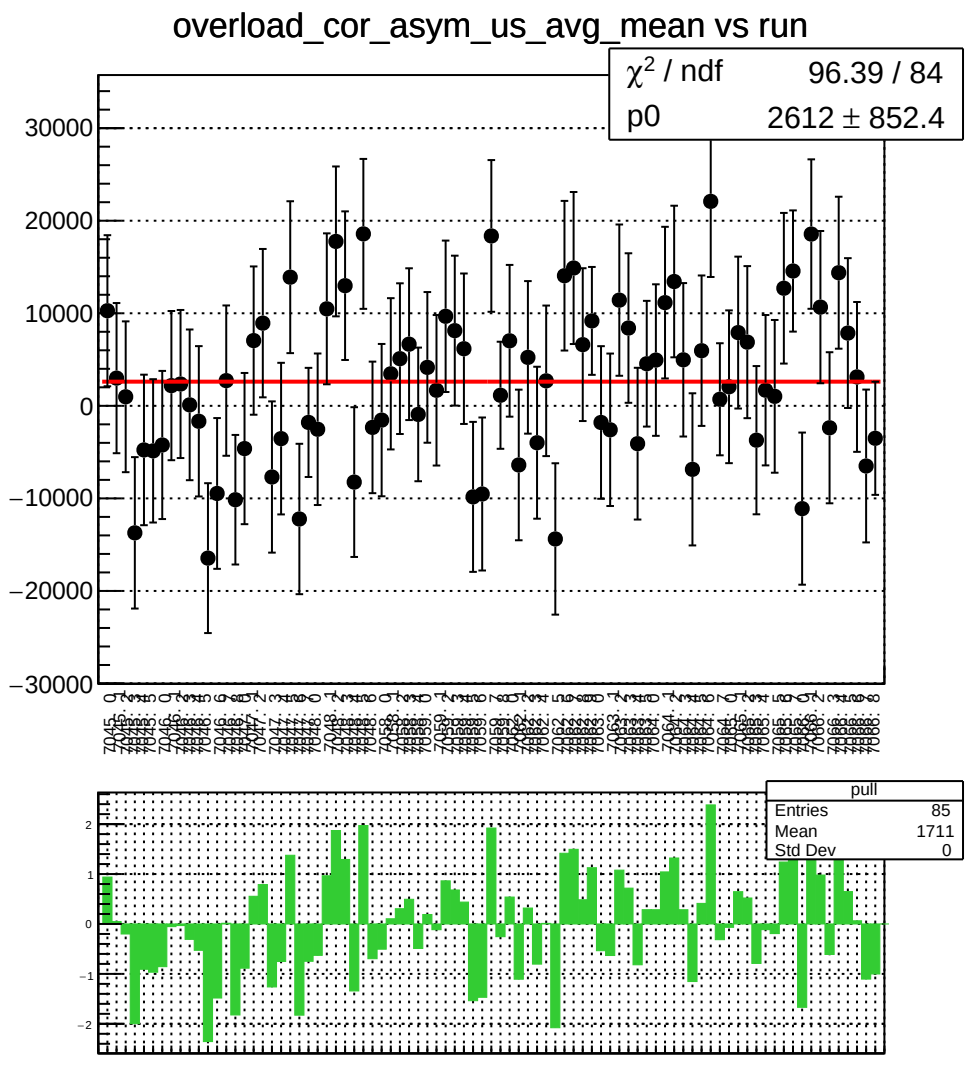

pull1D
Entries 85
Mean 0.003672
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

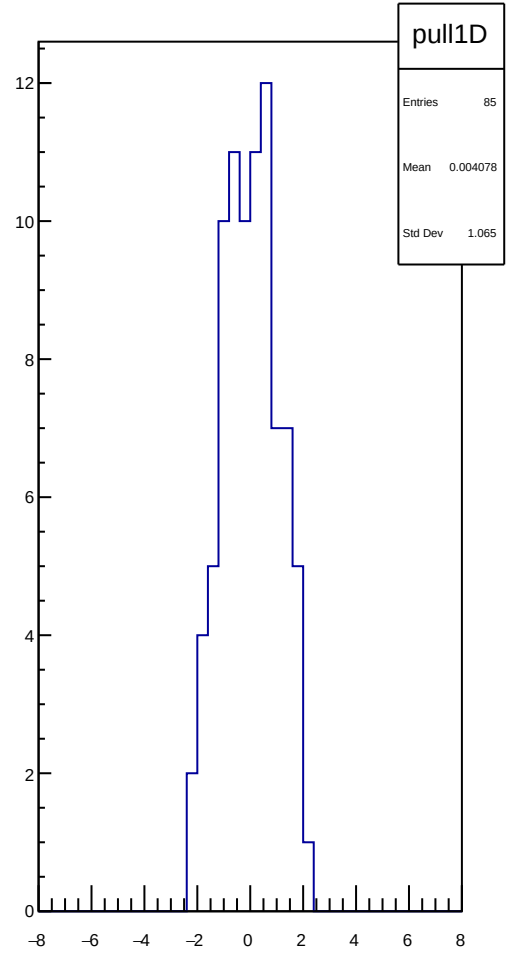

cor_asym_us_avg_rms vs run
χ² / ndf 112 / 84
p0 775.3 ± 0.6041
795
790
785
780
775
770
765
760
755

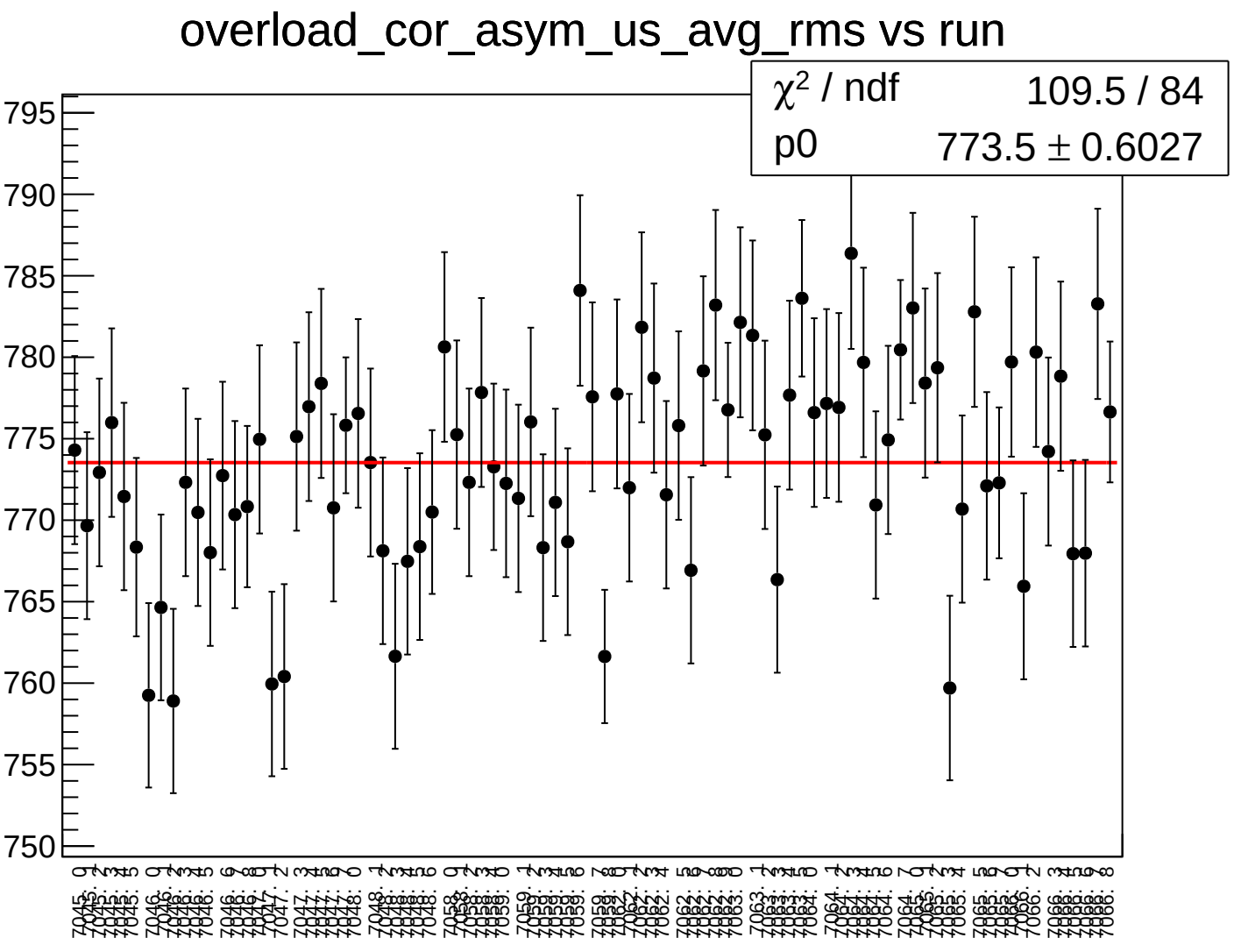

asym_us_avg_cor_correction_mean vs run
χ² / ndf 79.69 / 84
p0 −648.8 ± 1664
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 172.5
Std Dev 0
2
1
0
−1
−2

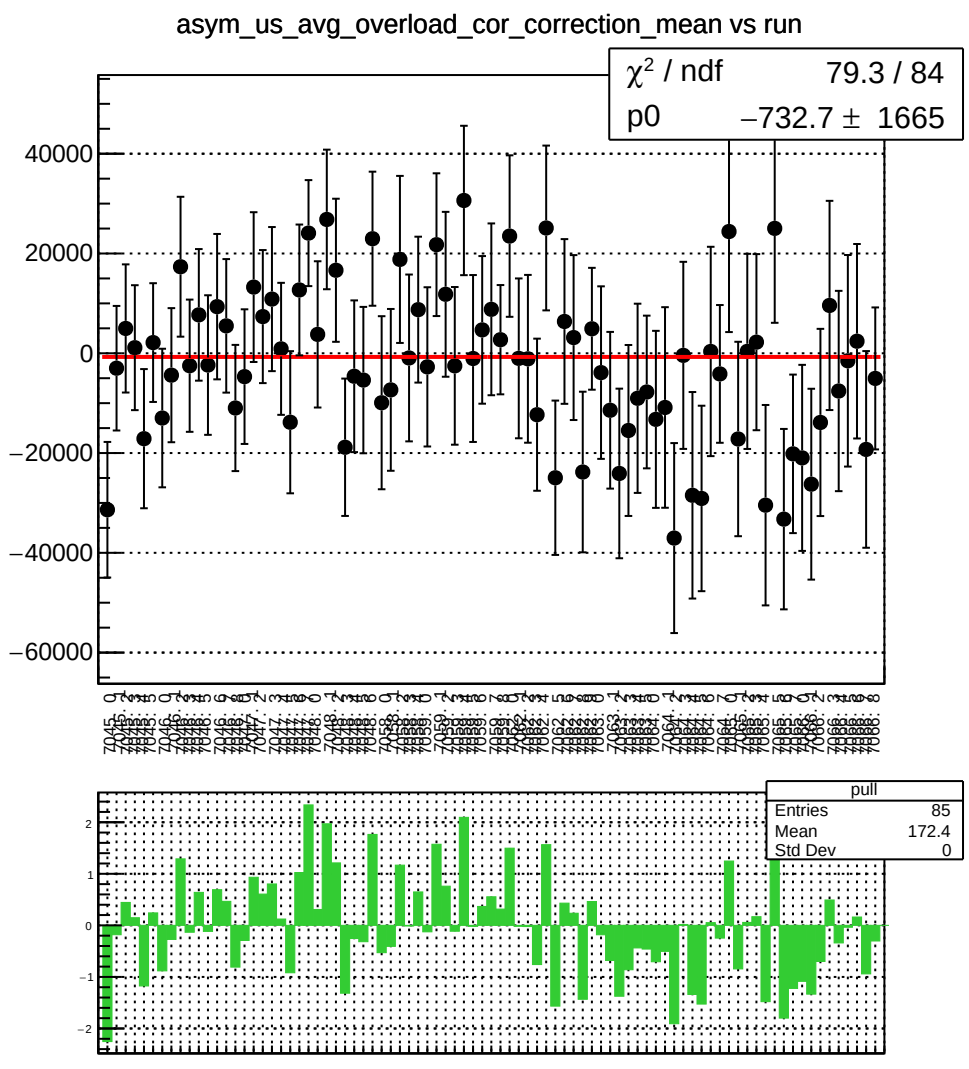

pull1D
Entries 85
Mean −0.04762
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

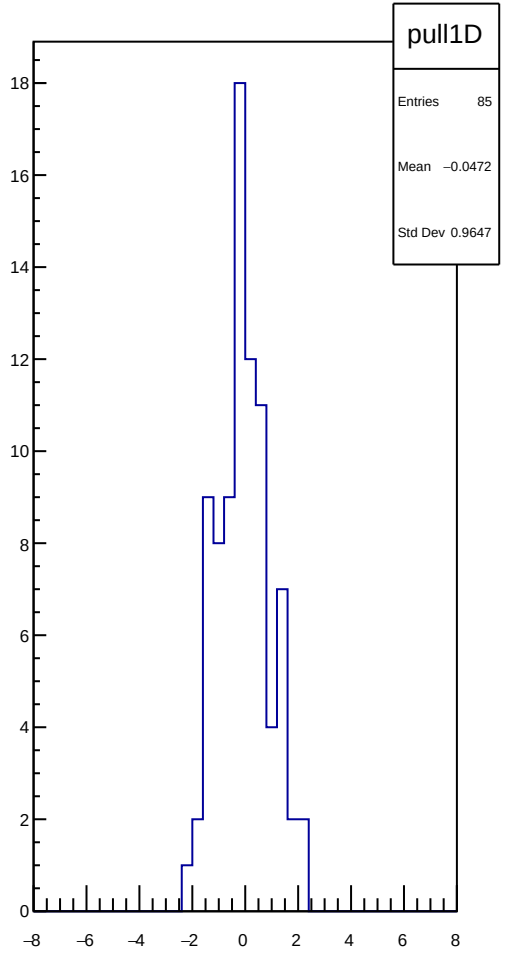

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3.377e+04 / 84
p0 1495 ± 1.177
2000
1800
1600
1400
1200

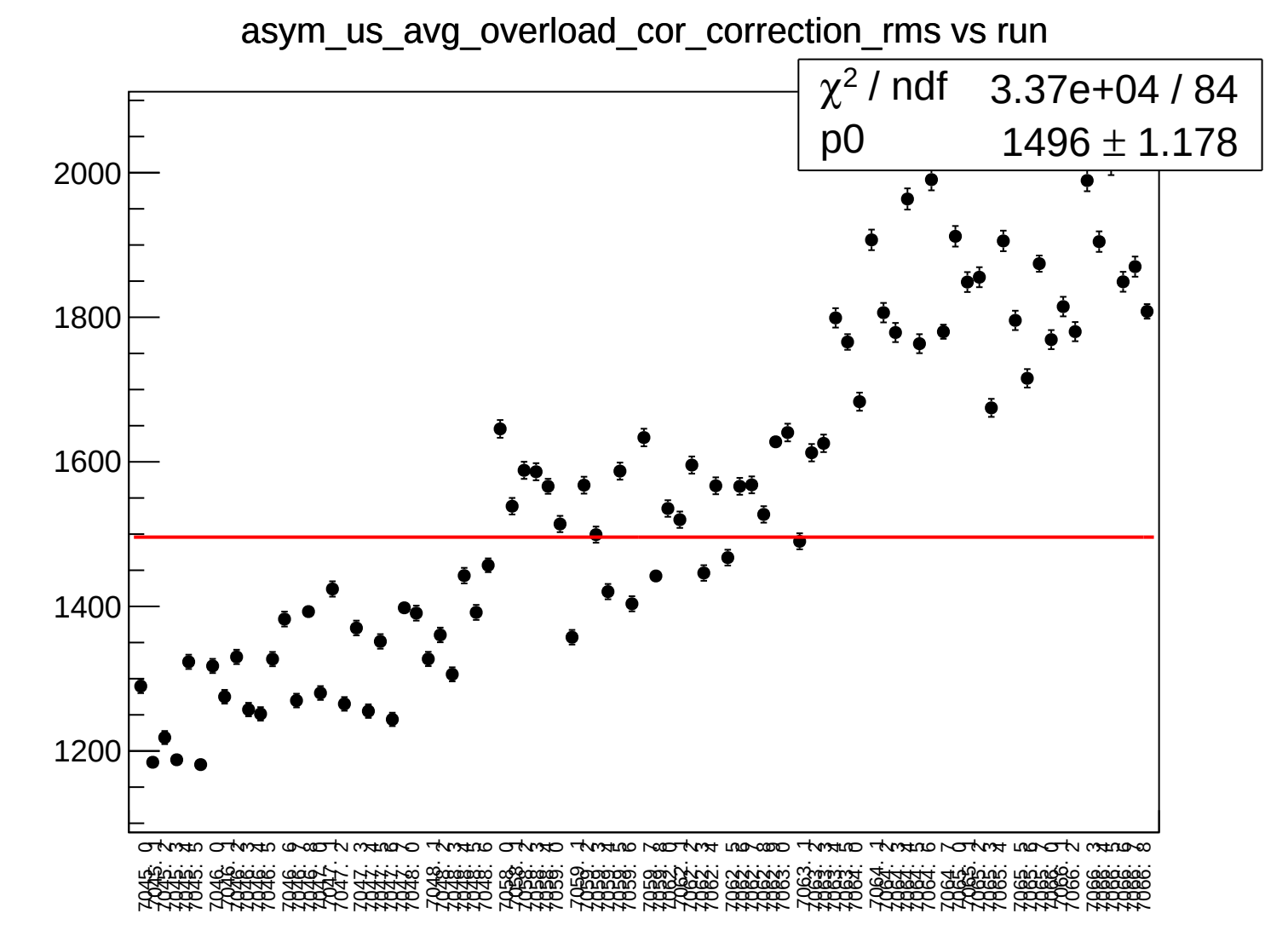

overload_cor_asym_us_avg_mean vs run
χ² / ndf 96.39 / 84
p0 2612 ± 852.4
pull
Entries 85
Mean 1711
Std Dev 0

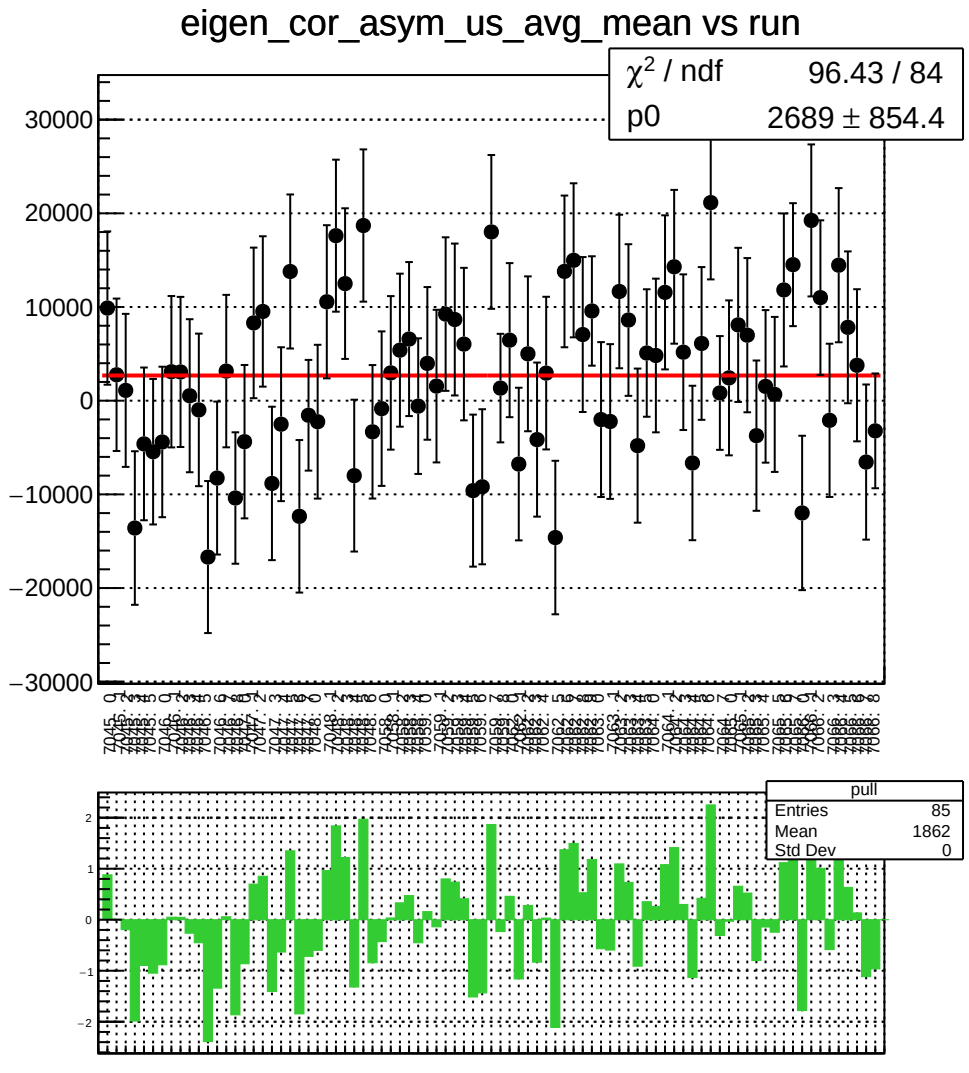

pull1D
Entries 85
Mean 0.004078
Std Dev 1.065

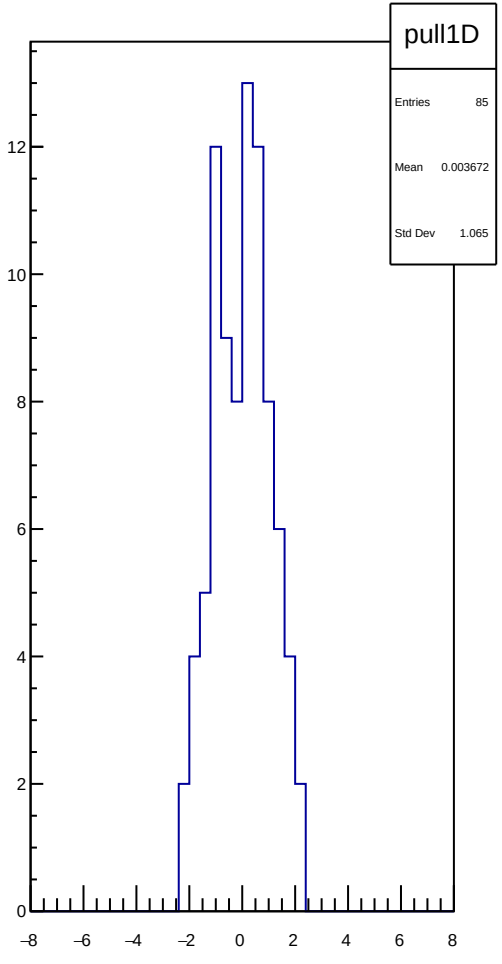

overload_cor_asym_us_avg_rms vs run
χ² / ndf 109.5 / 84
p0 773.5 ± 0.6027
795
790
785
780
775
770
765
760
755
750

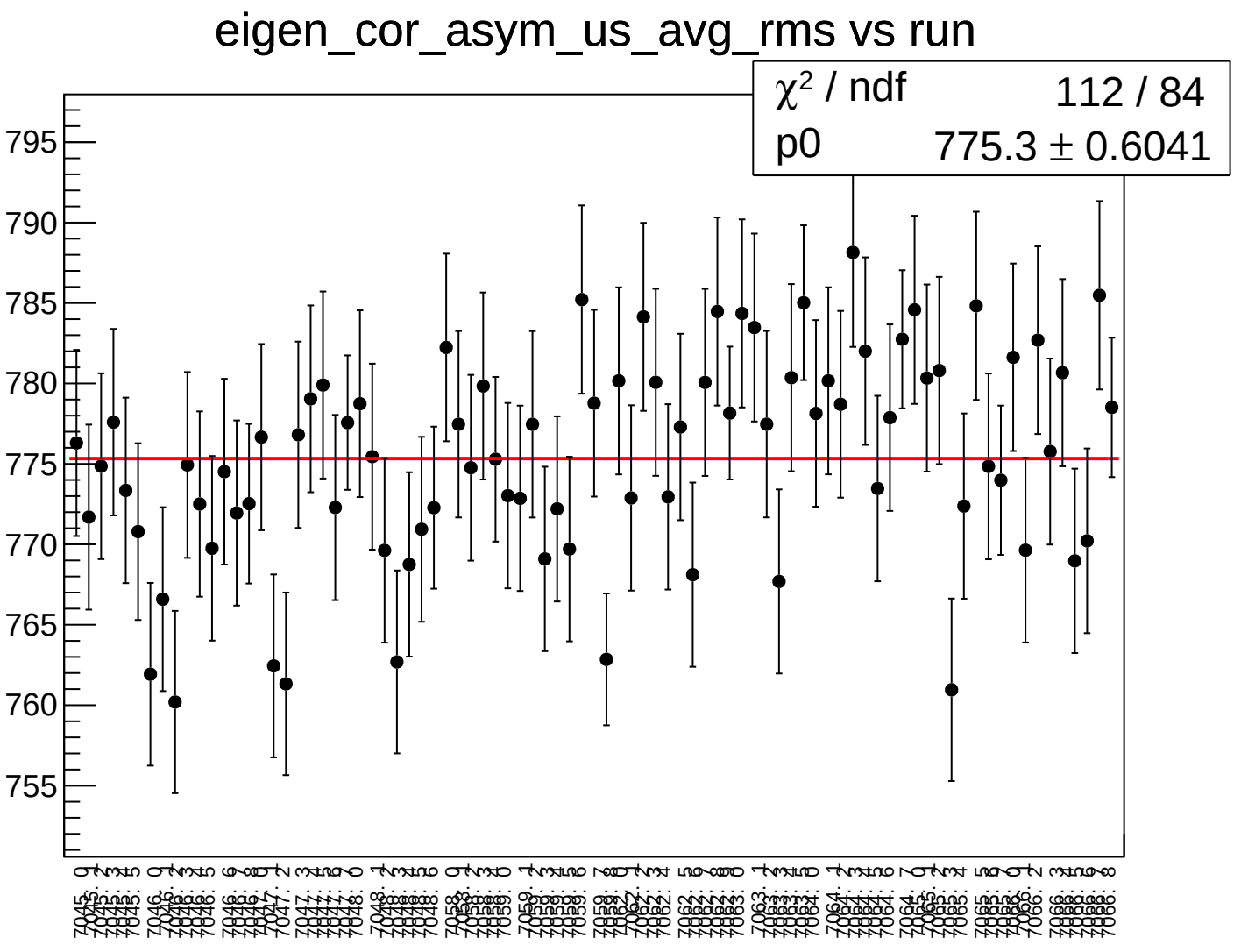

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 79.3 / 84
p0 −732.7 ± 1665
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 172.4
Std Dev 0
2
1
0
−1
−2

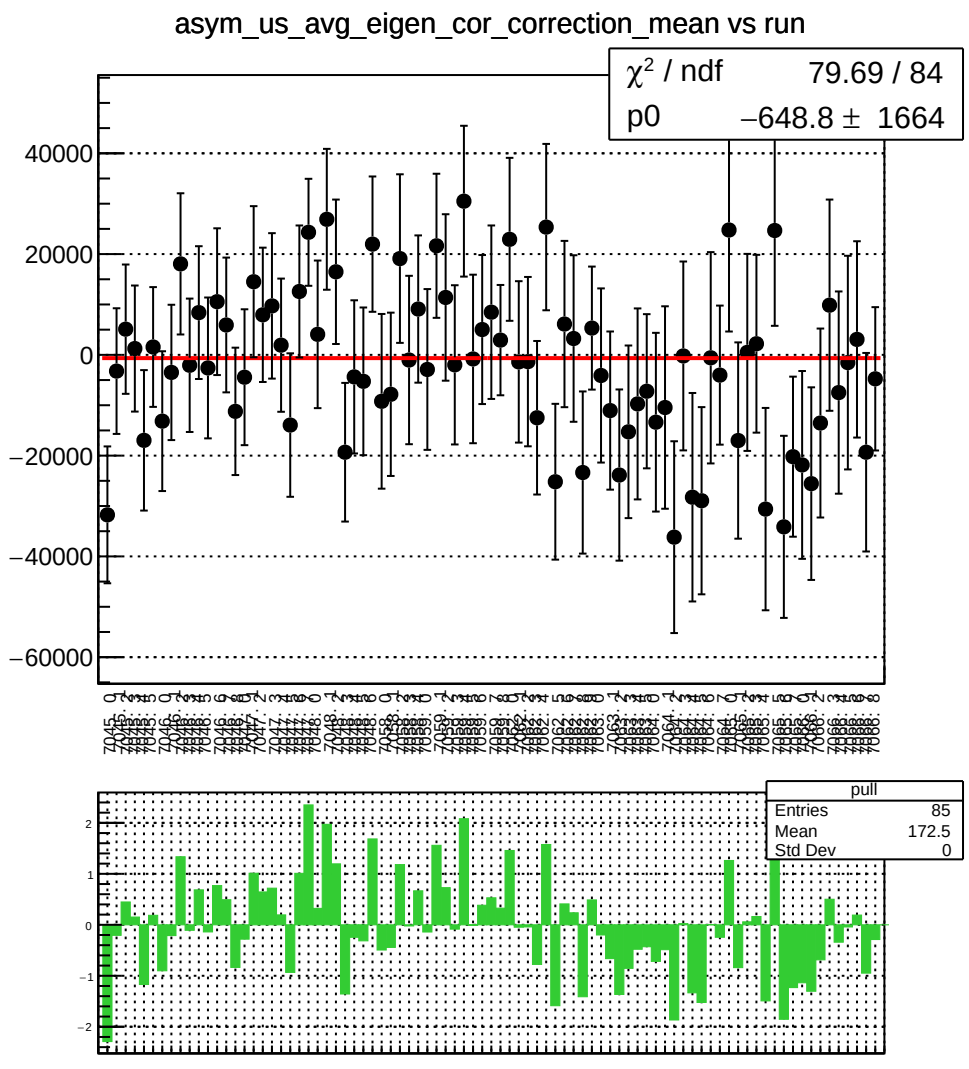

pull1D
Entries 85
Mean −0.0472
Std Dev 0.9647
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

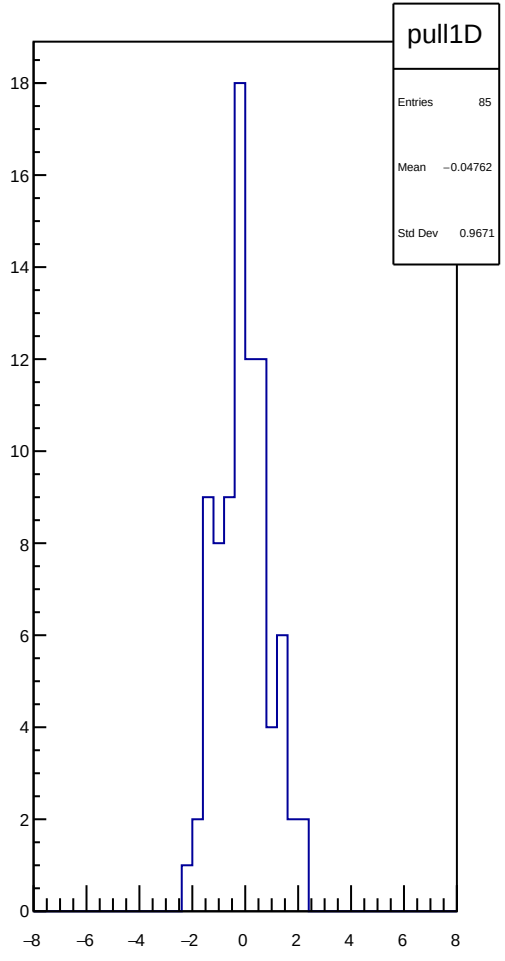

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3.37e+04 / 84
p0 1496 ± 1.178
2000
1800
1600
1400
1200

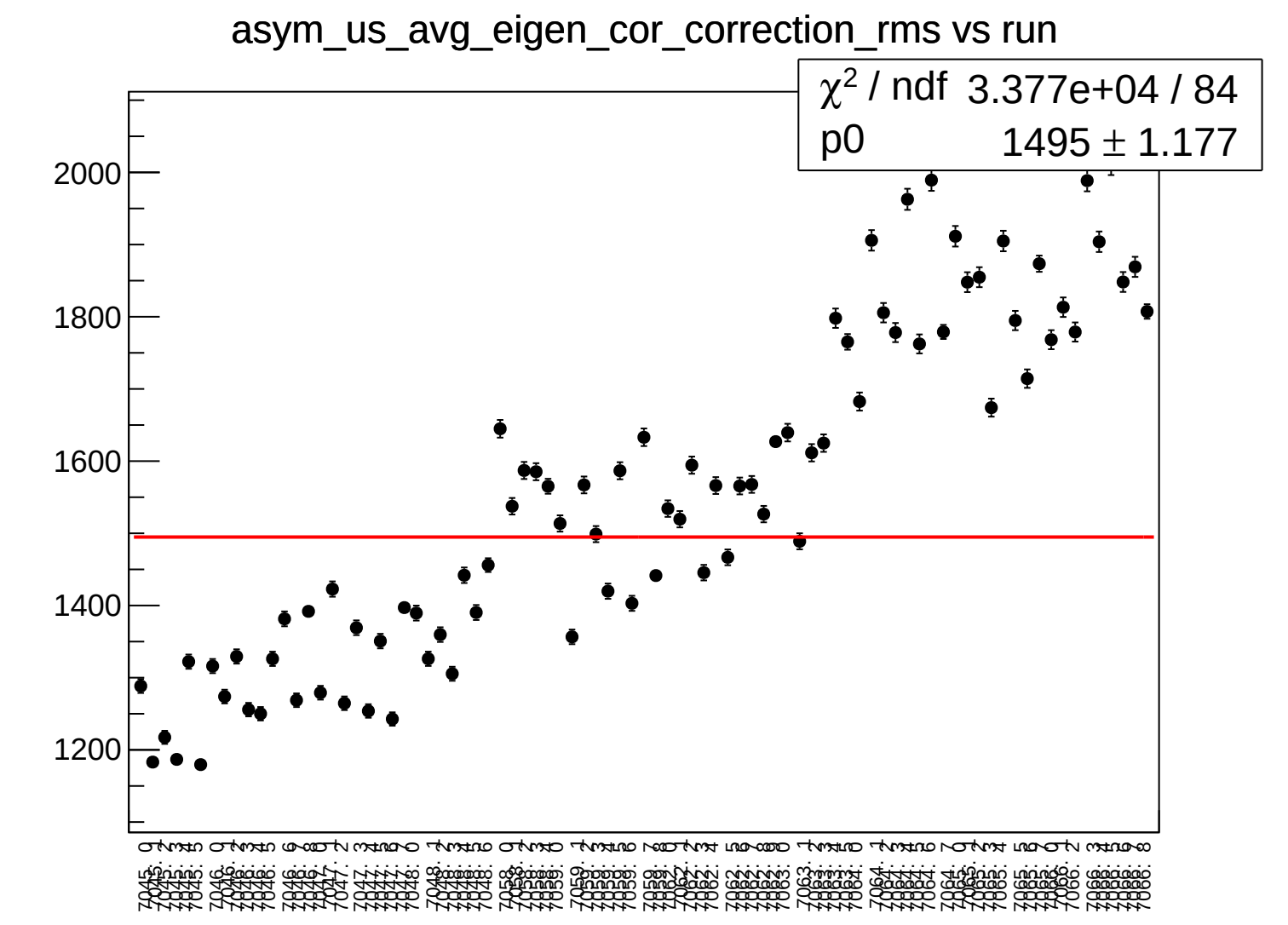

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 96.43 / 84
p0 2689 ± 854.4
pull
Entries 85
Mean 1862
Std Dev 0

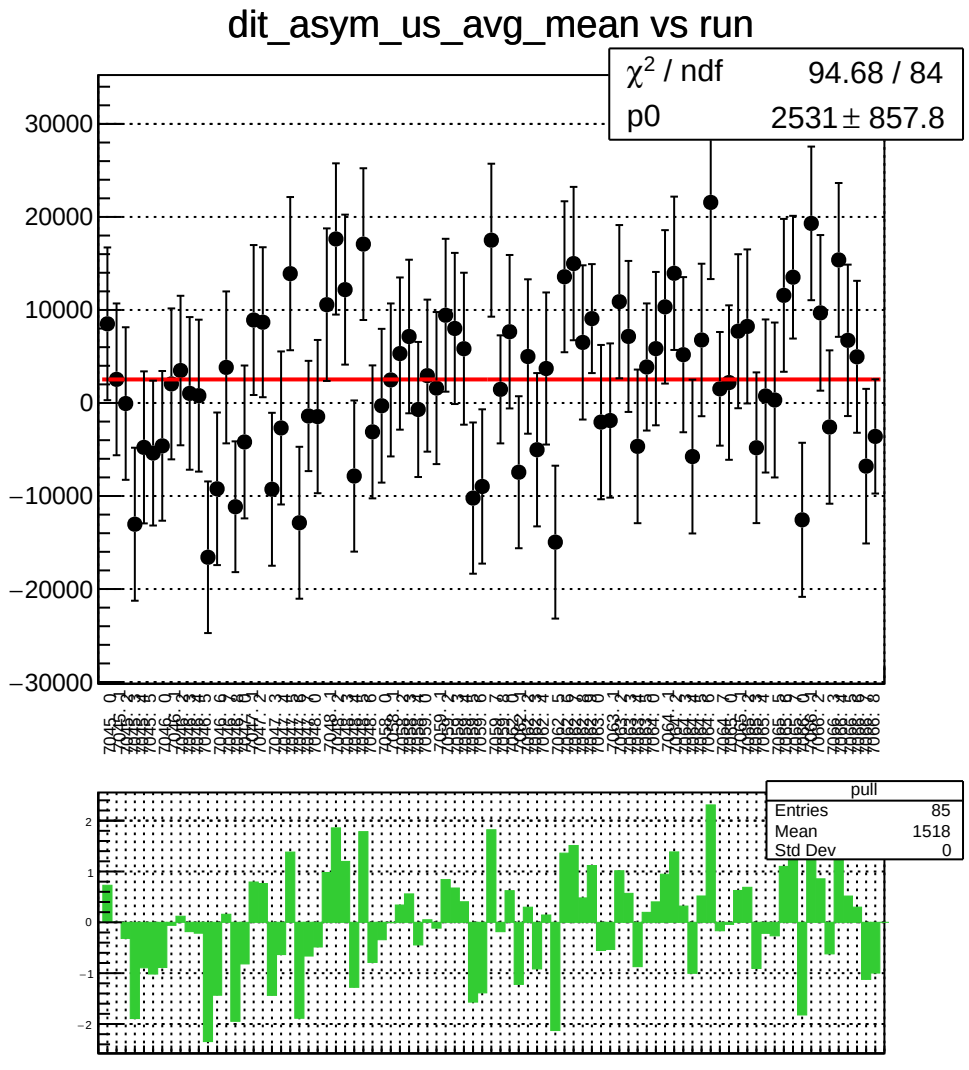

pull1D
Entries 85
Mean 0.003672
Std Dev 1.065

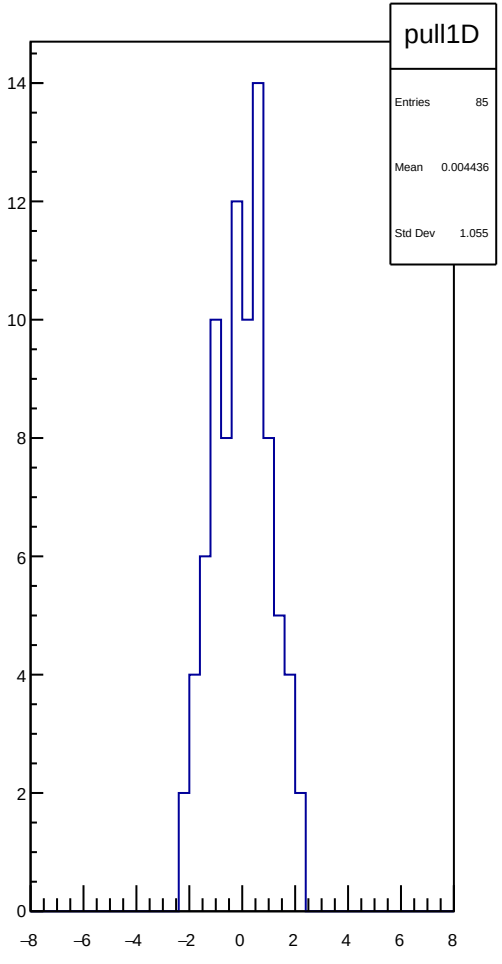

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 112 / 84
p0 775.3 ± 0.6041
795
790
785
780
775
770
765
760
755

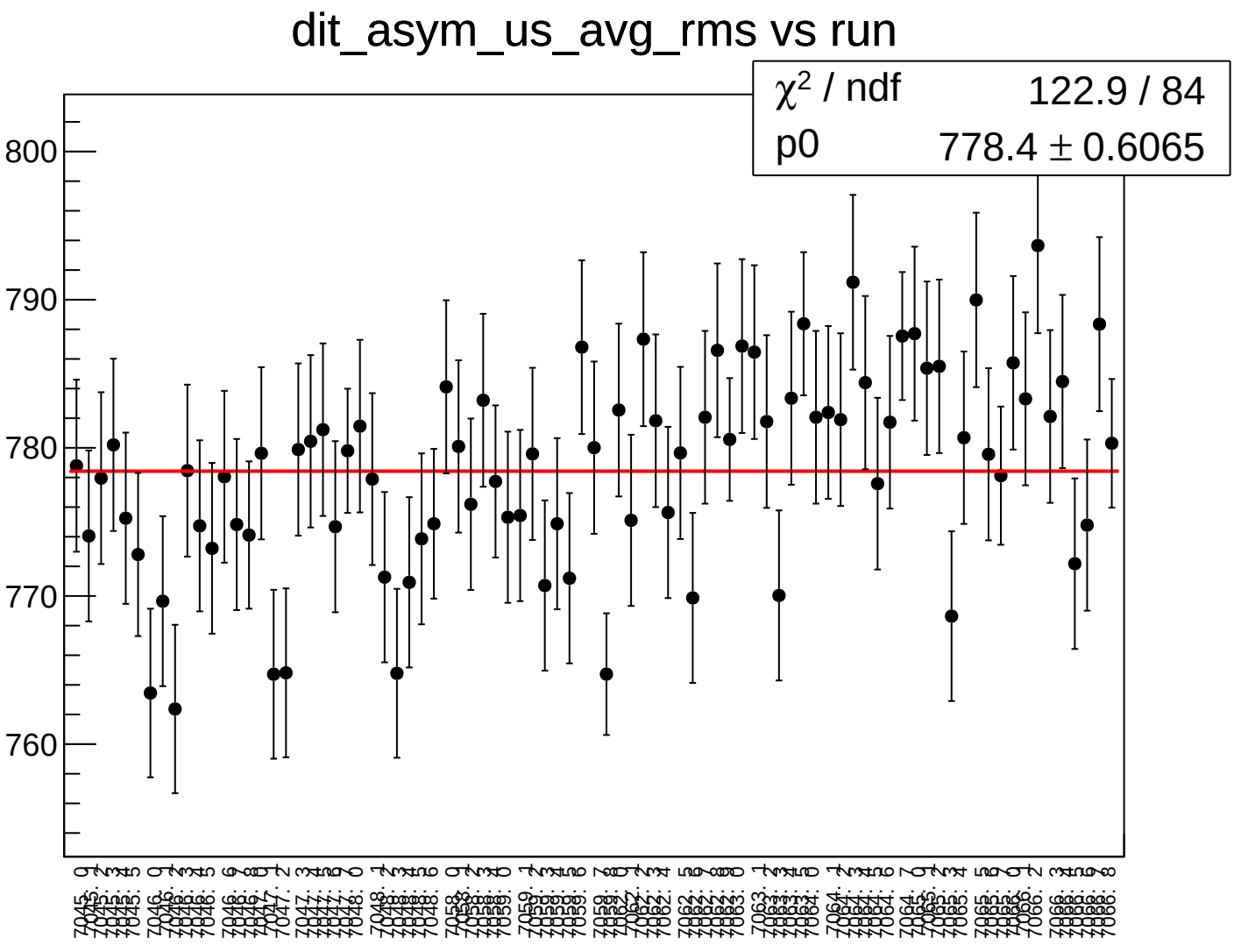

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.69 / 84
p0 −648.8 ± 1664
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 172.5
Std Dev 0
2
1
0
−1
−2

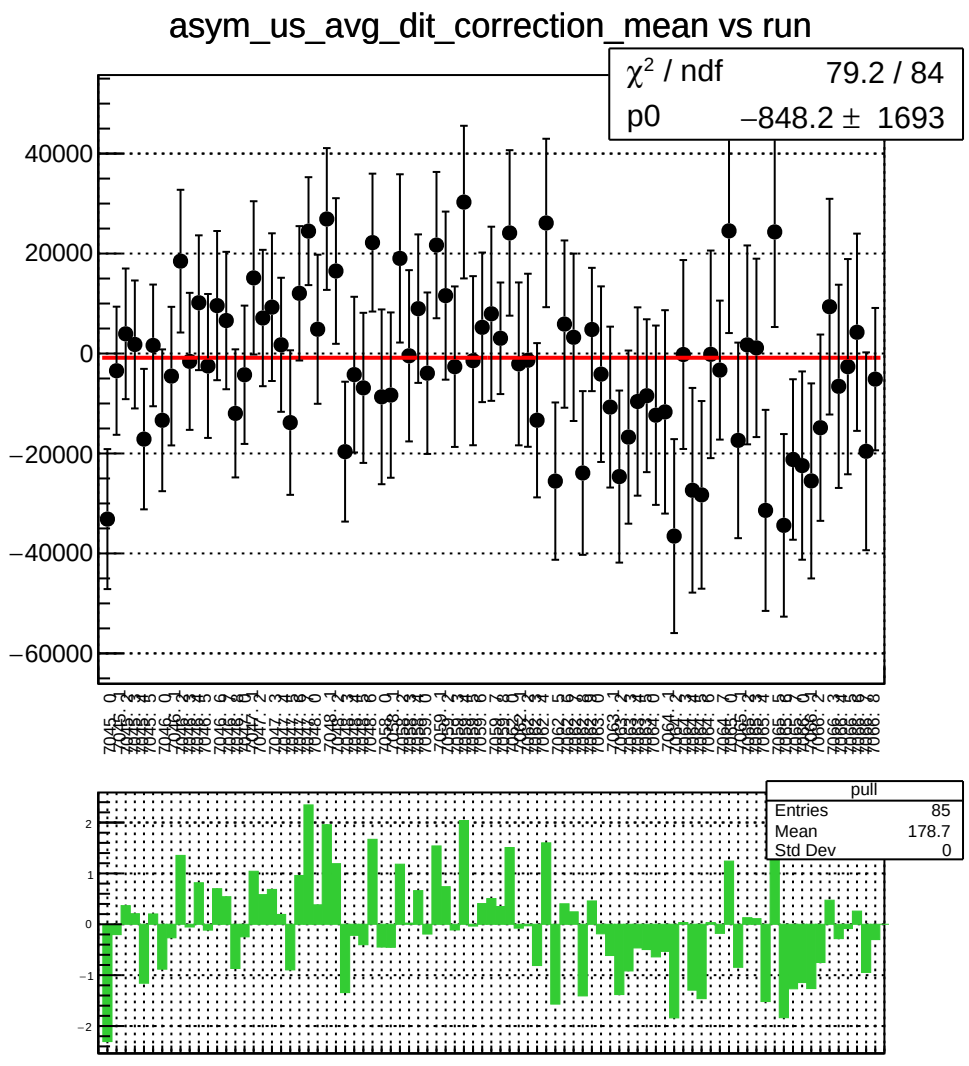

pull1D
Entries 85
Mean −0.04762
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

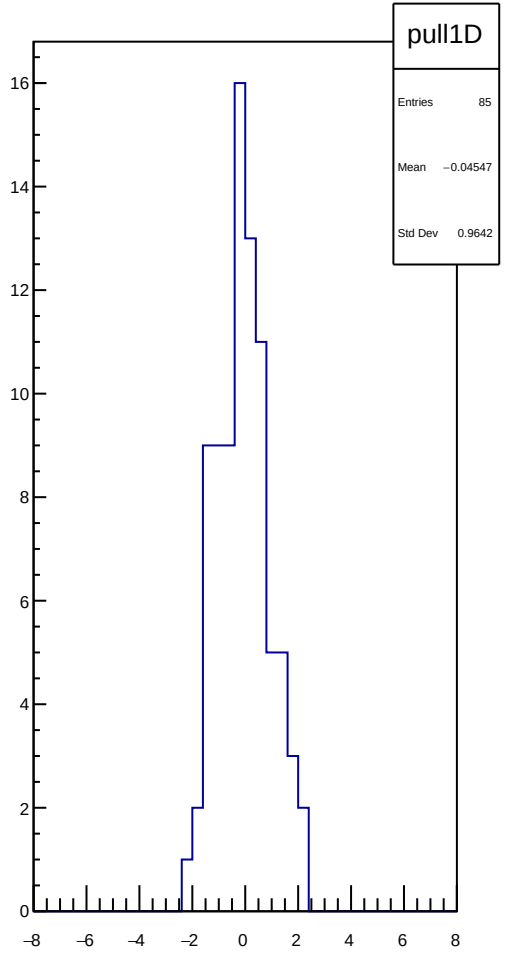

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.377e+04 / 84
p0 1495 ± 1.177
2000
1800
1600
1400
1200


dit_asym_us_avg_mean vs run
χ^2 / ndf 94.68 / 84
p0 2531 ± 857.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1518
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.004436
Std Dev 1.055
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 122.9 / 84
p0 778.4 ± 0.6065
800
790
780
770
760


asym_us_avg_dit_correction_mean vs run
χ² / ndf 79.2 / 84
p0 −848.2 ± 1693
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 178.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean −0.04547
Std Dev 0.9642
16
14
12
10
8
6
4
2
0
−8
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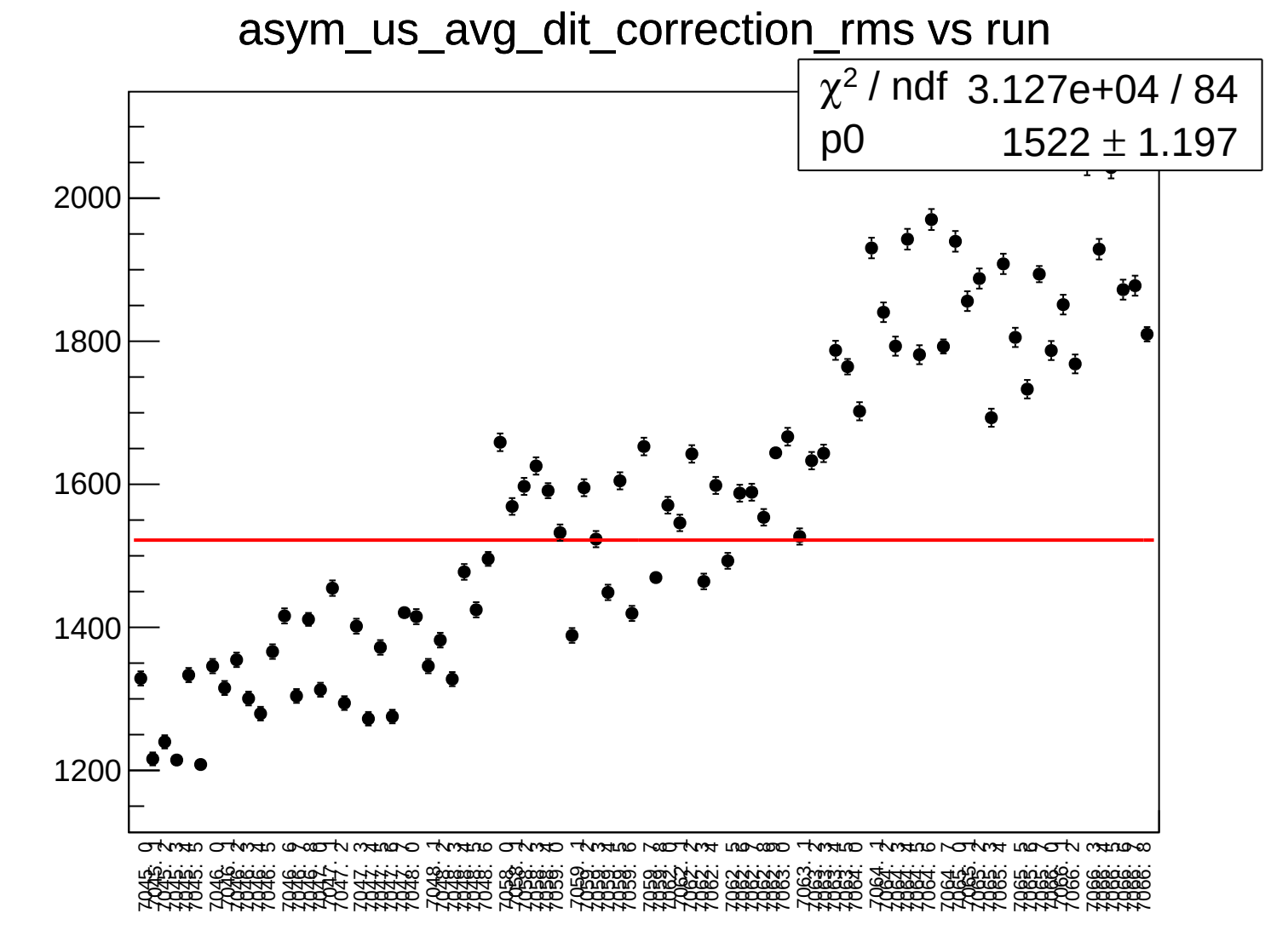
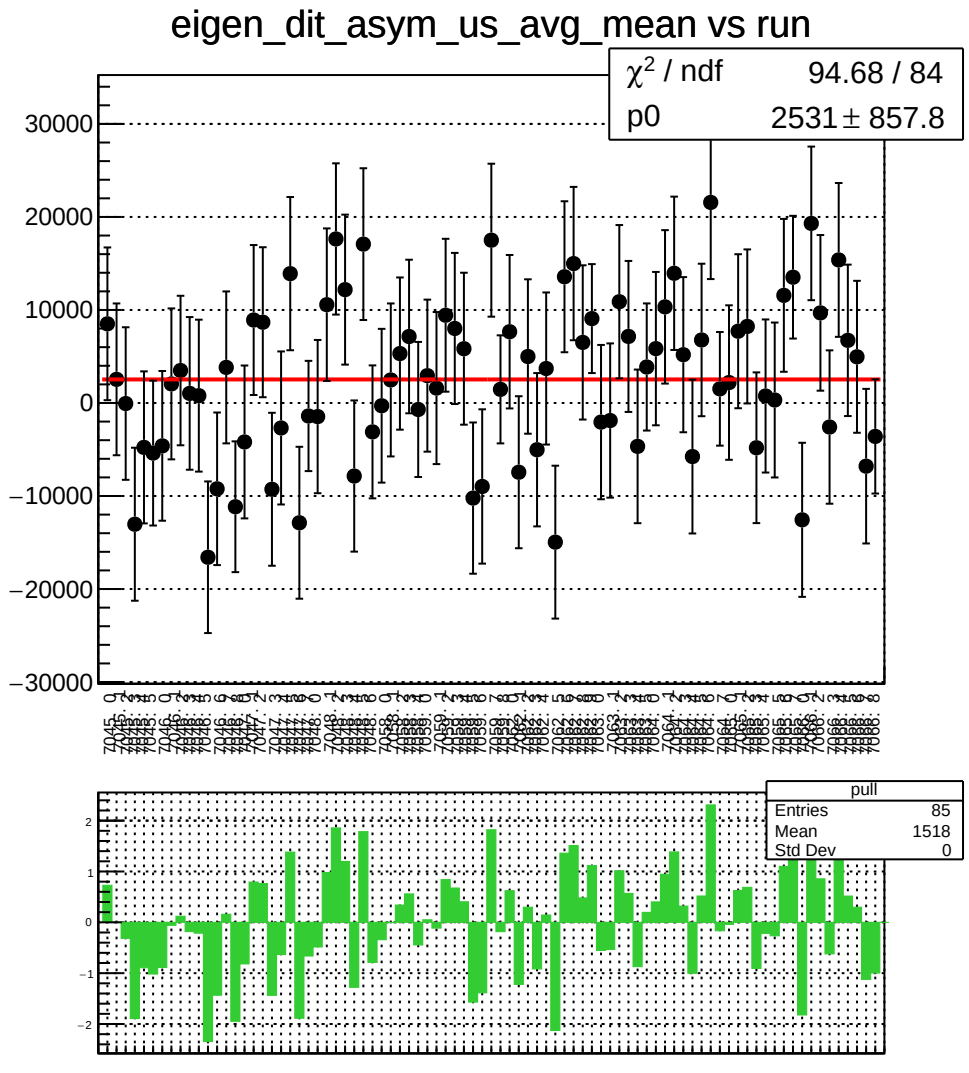
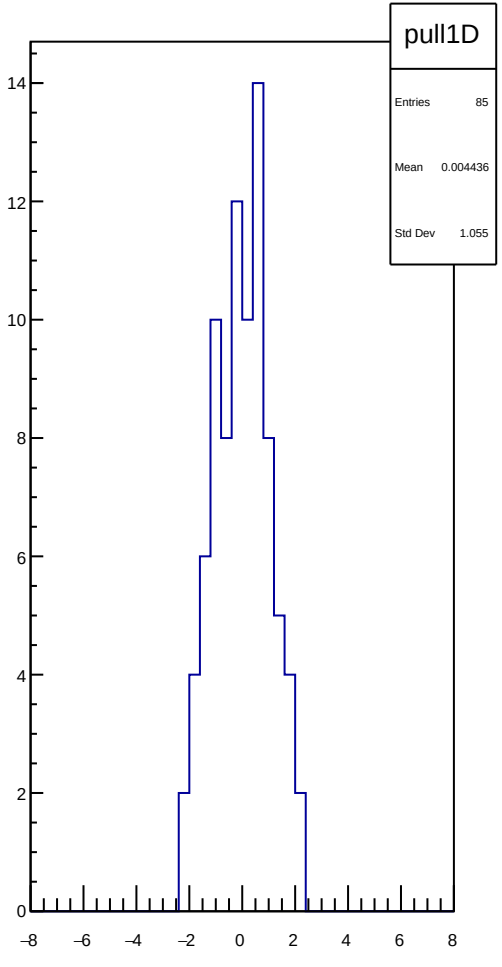
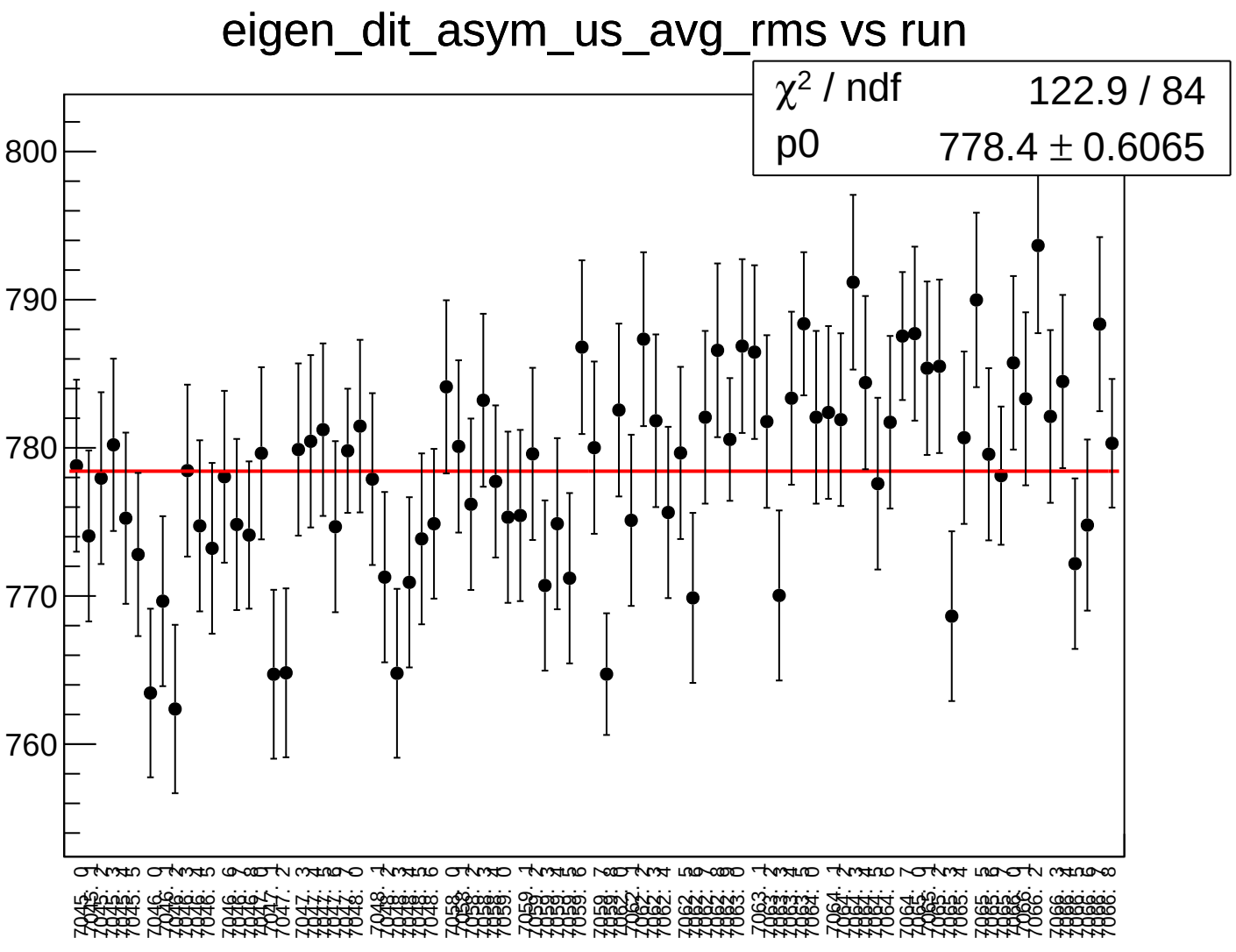
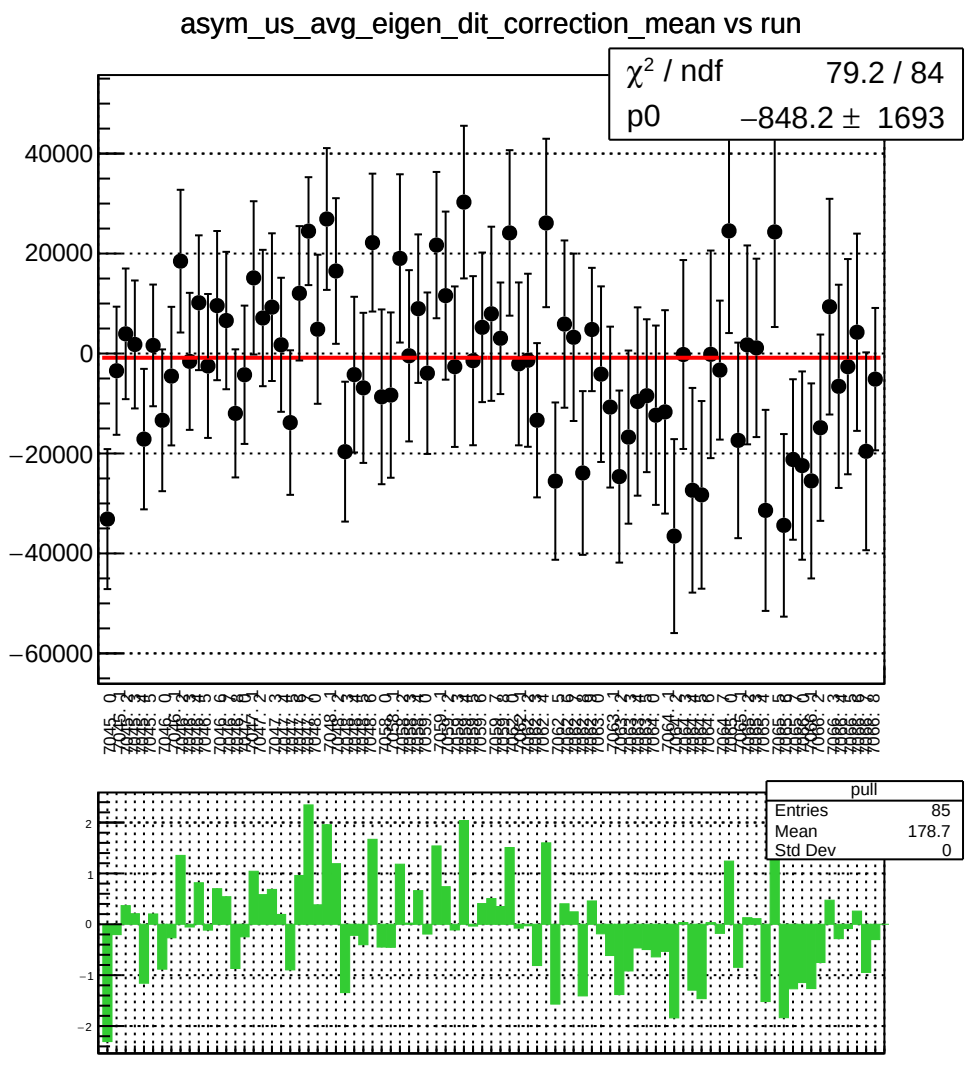
−4
−2
0
2
4
6
8

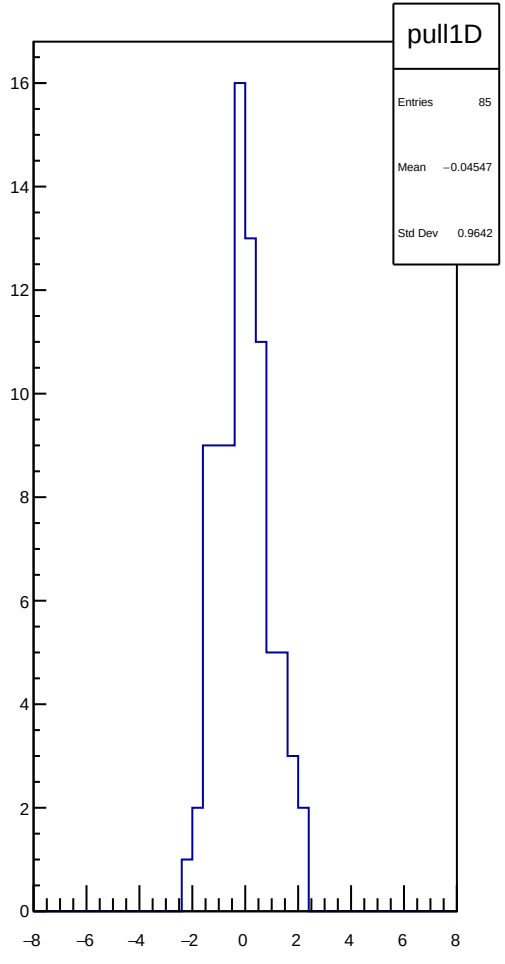

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3.127e+04 / 84
p0 1522 ± 1.197
2000
1800
1600
1400
1200

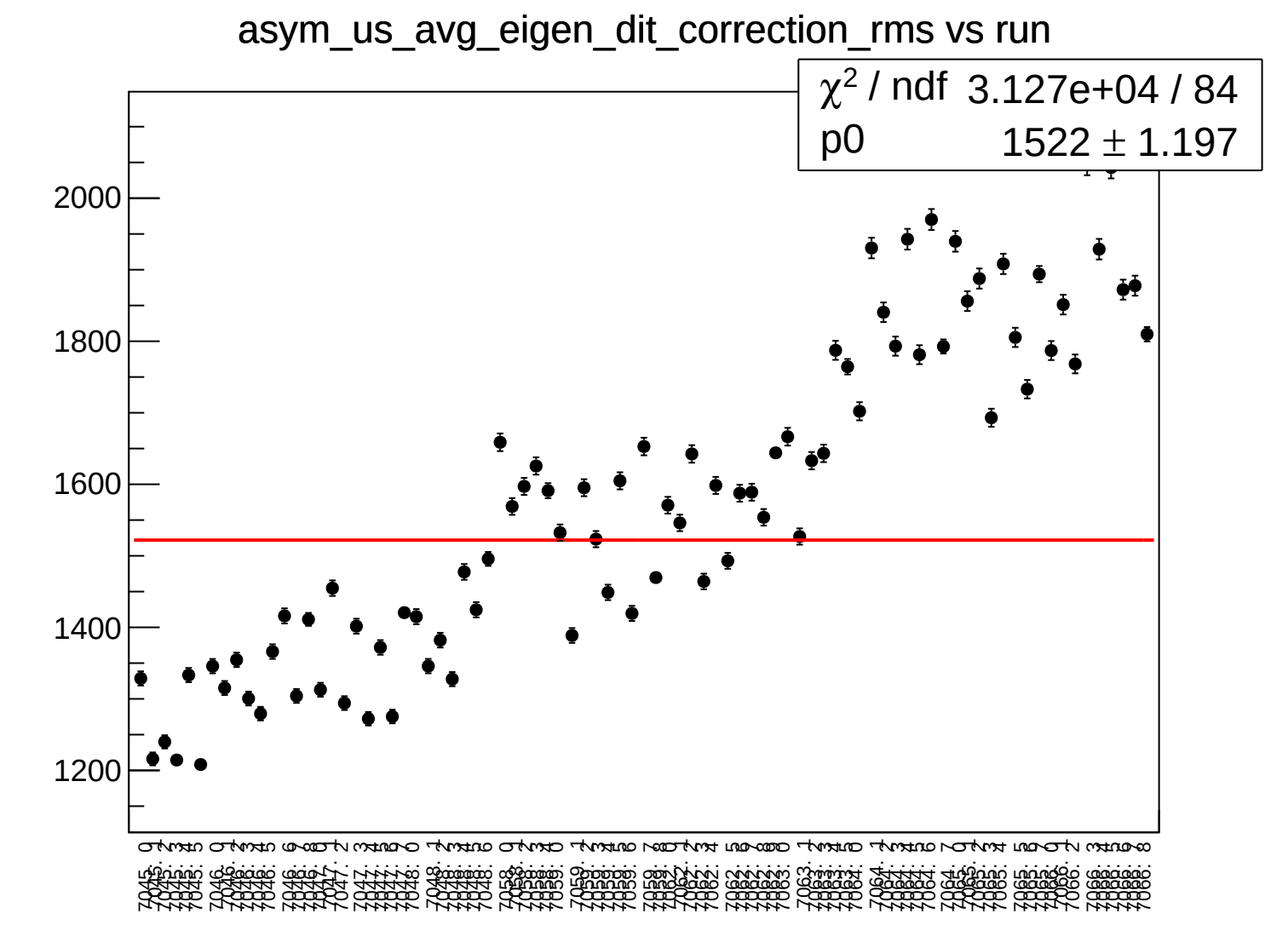

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 94.68 / 84
p0 2531 ± 857.8
pull
Entries 85
Mean 1518
Std Dev 0

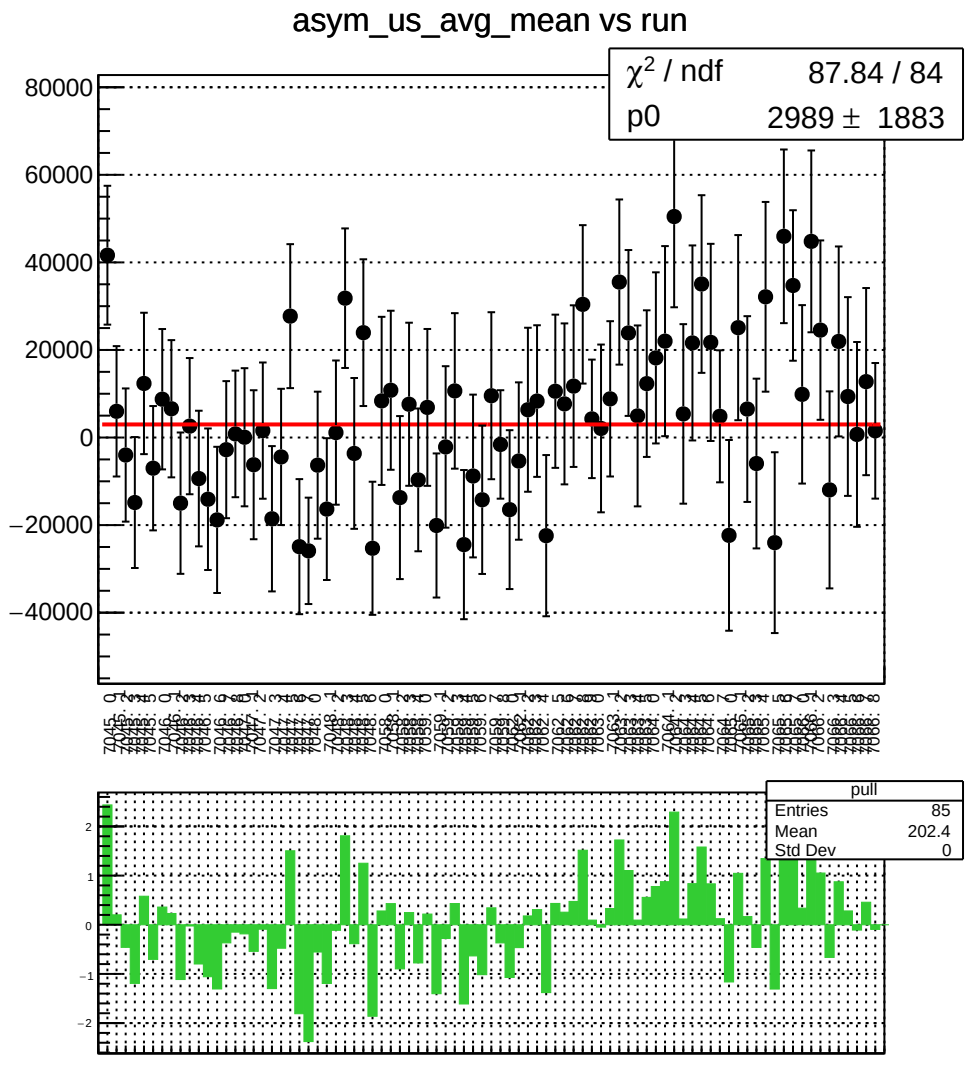

pull1D
Entries 85
Mean 0.004436
Std Dev 1.055

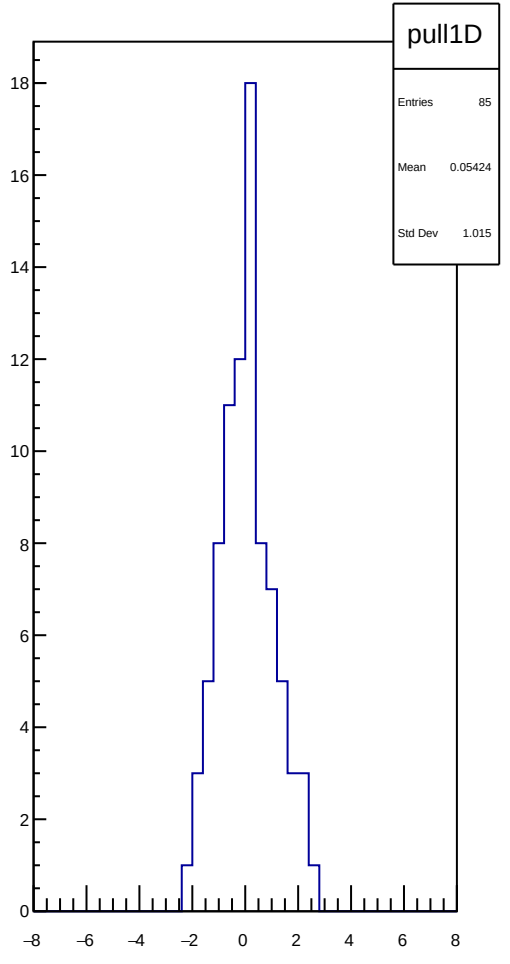

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 122.9 / 84
p0 778.4 ± 0.6065
800
790
780
770
760

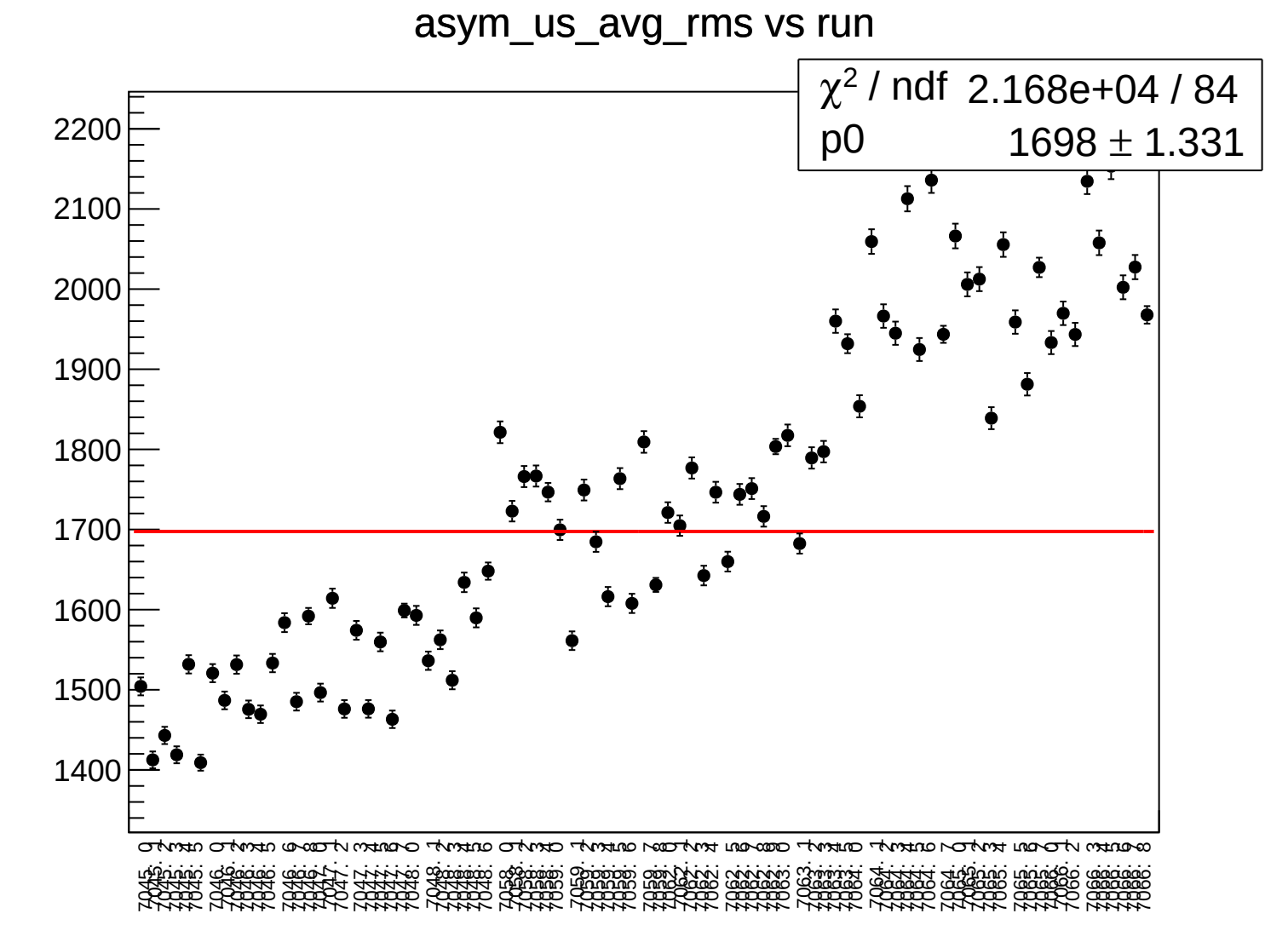

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.2 / 84
p0 −848.2 ± 1693
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 178.7
Std Dev 0
2
1
0
−1
−2

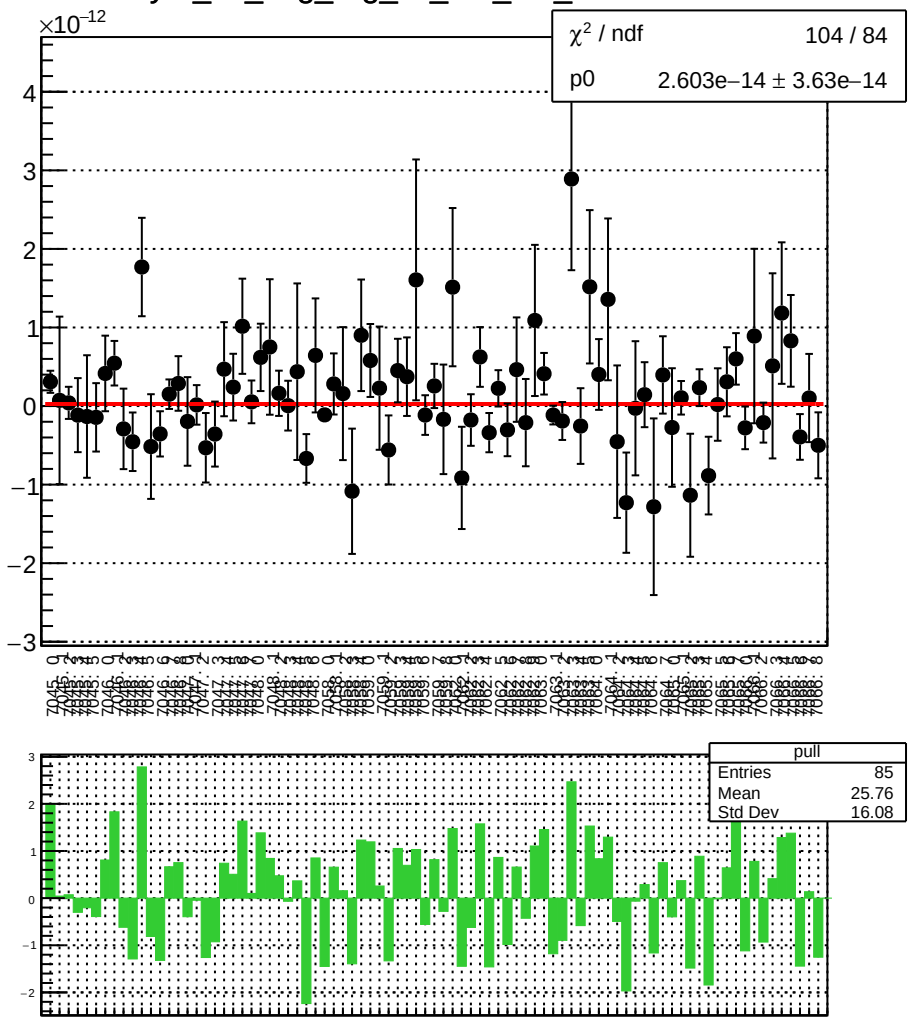

pull1D
Entries 85
Mean −0.04547
Std Dev 0.9642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

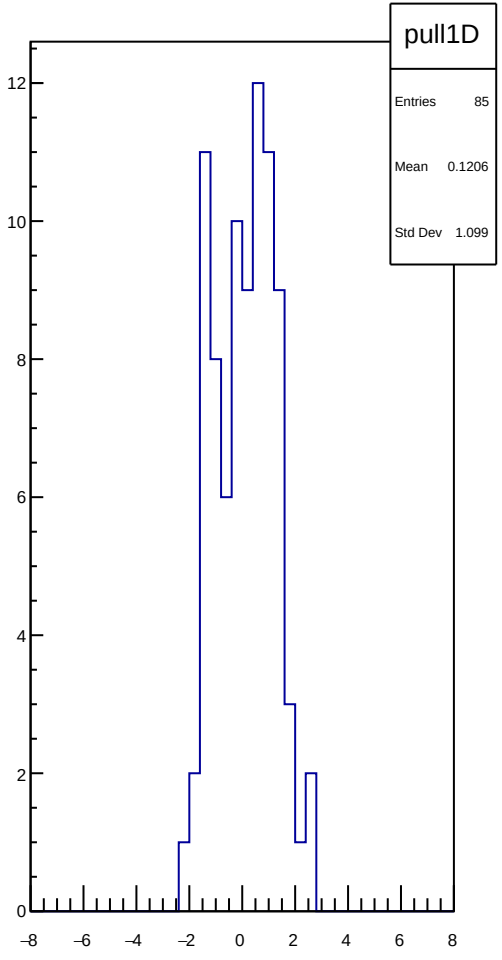

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.127e+04 / 84
p0 1522 ± 1.197
2000
1800
1600
1400
1200


asym_us_avg_mean vs run
χ² / ndf 87.84 / 84
p0 2989 ± 1883
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 202.4
Std Dev 0
2
1
0
−1
−2

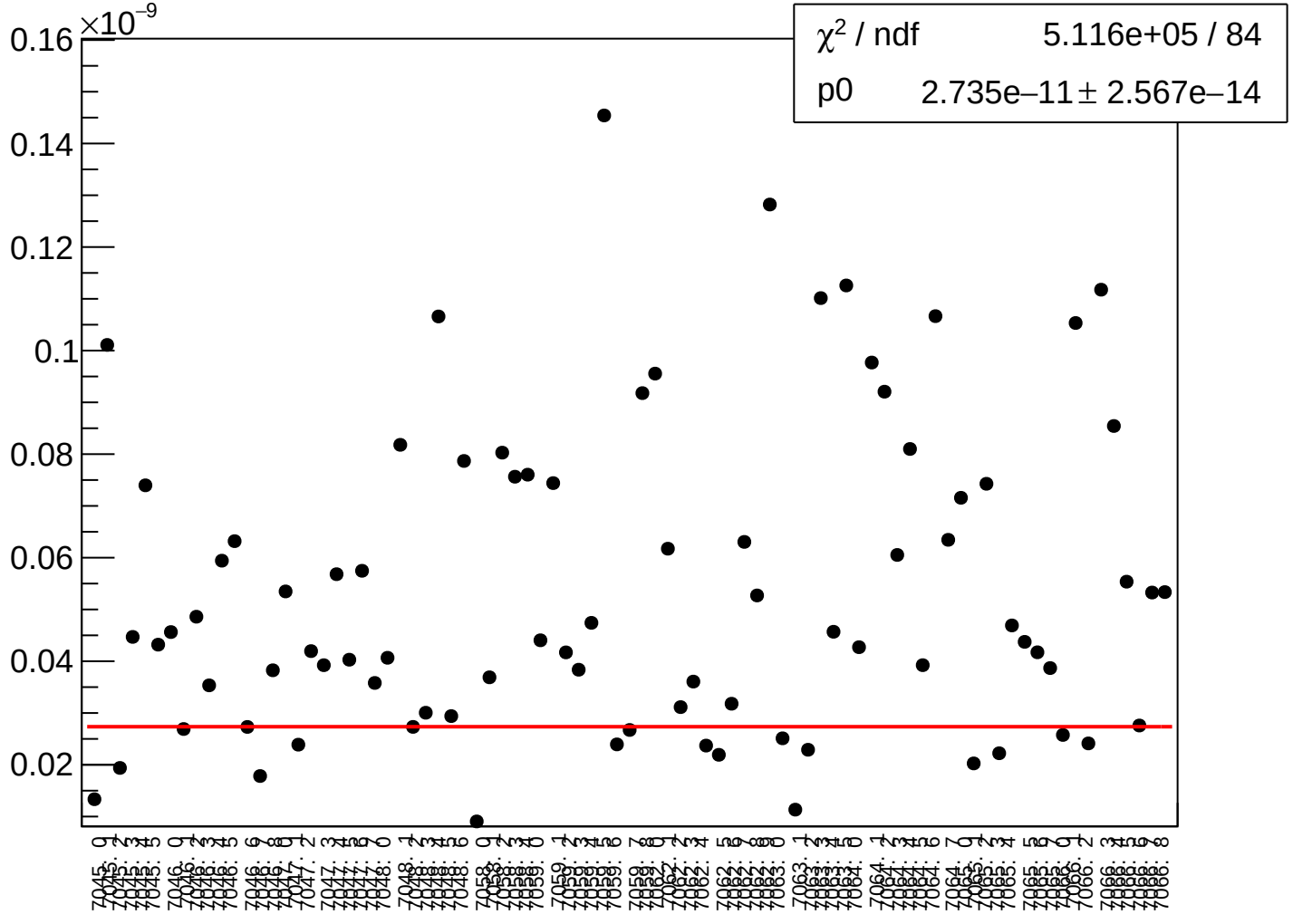

pull1D
Entries 85
Mean 0.05424
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

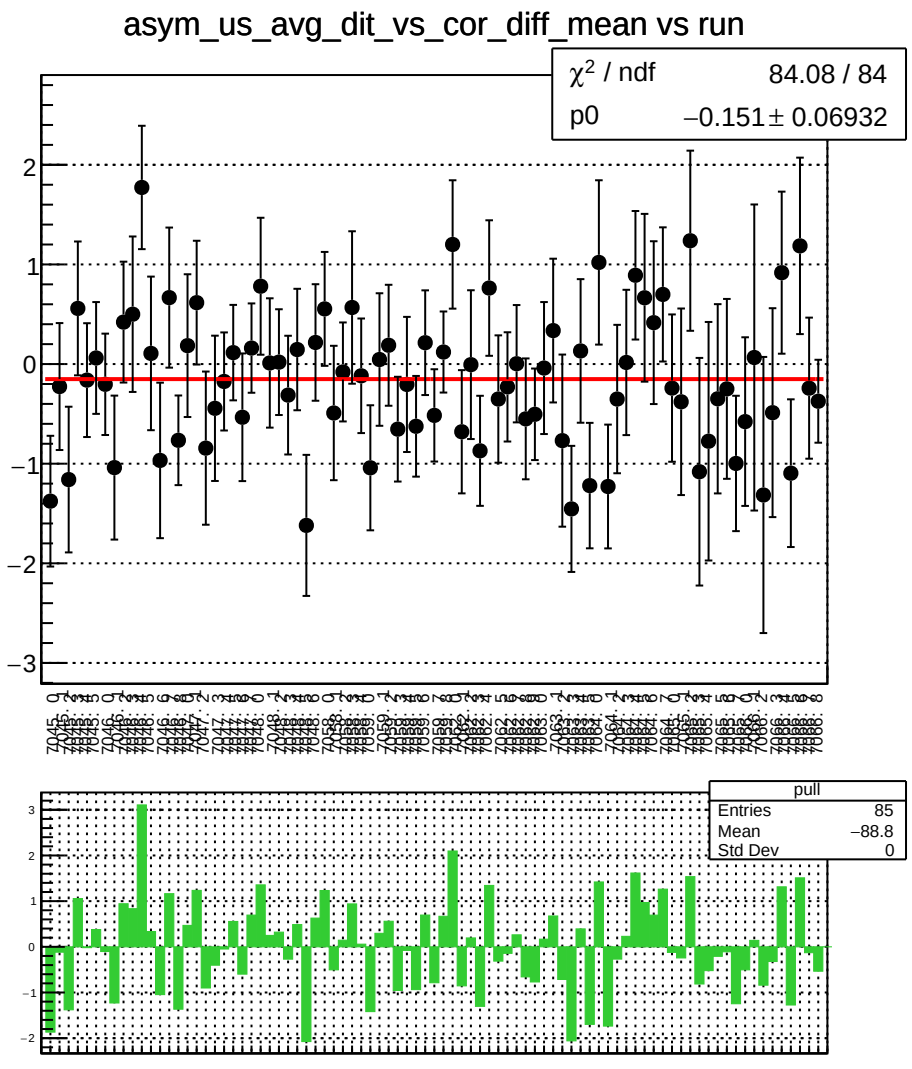

asym_us_avg_rms vs run
χ^2 / ndf 2.168e+04 / 84
p0 1698 ± 1.331
2200
2100
2000
1900
1800
1700
1600
1500
1400

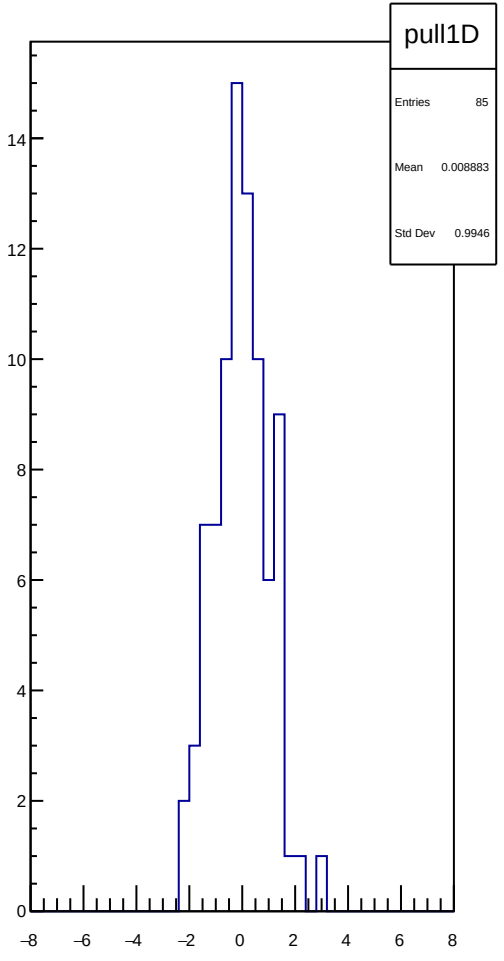

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104 / 84
p0 2.603e−14 ± 3.63e−14
pull
Entries 85
Mean 25.76
Std Dev 16.08

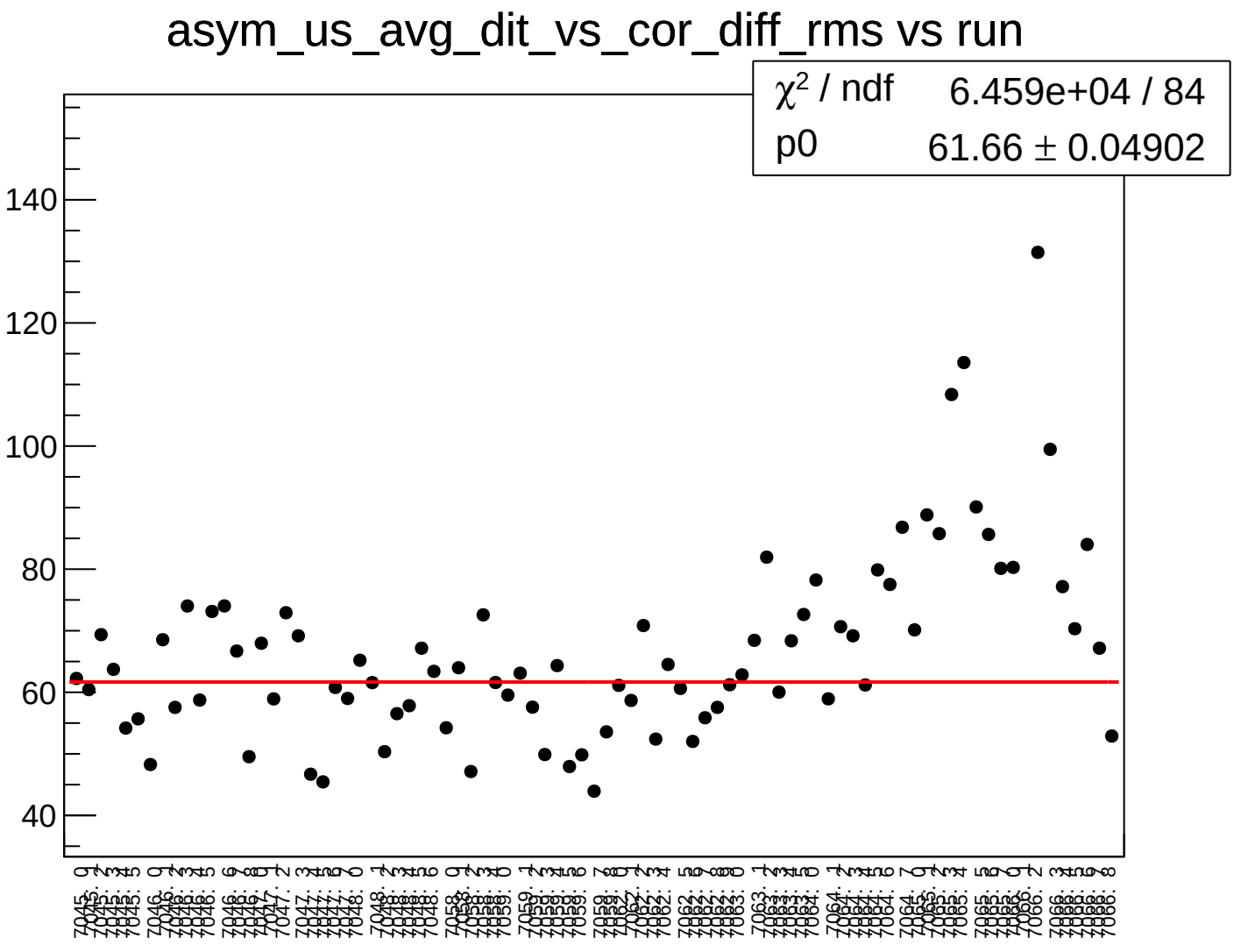

pull1D
Entries 85
Mean 0.1206
Std Dev 1.099

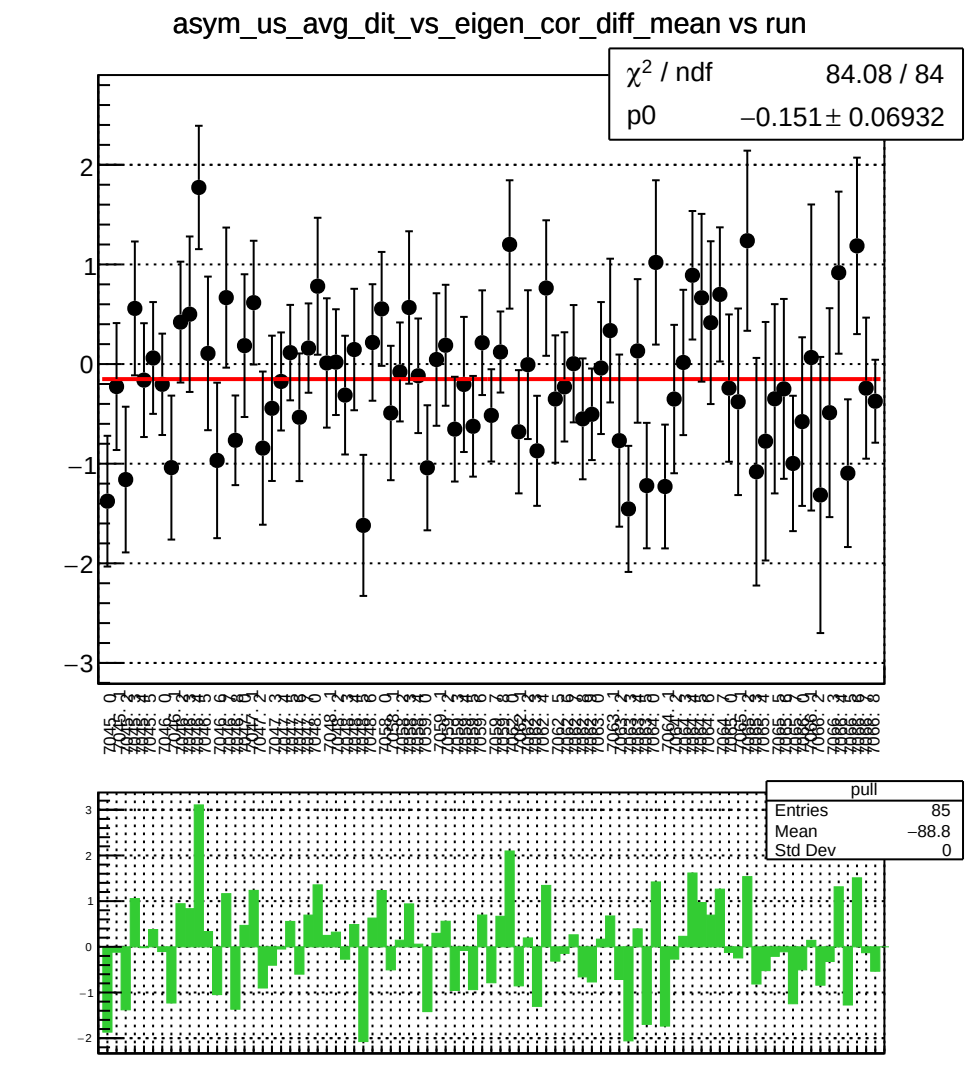
asym_us_avg_reg_vs_cor_diff_rms vs run

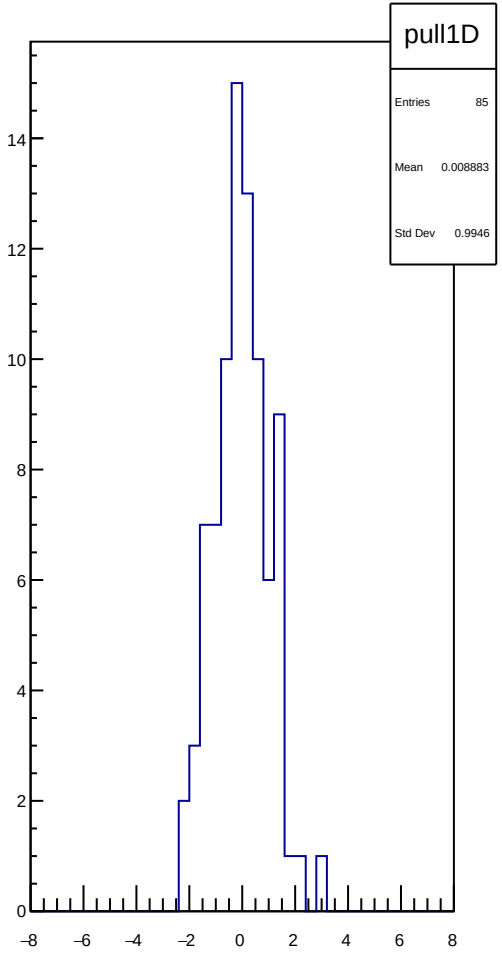


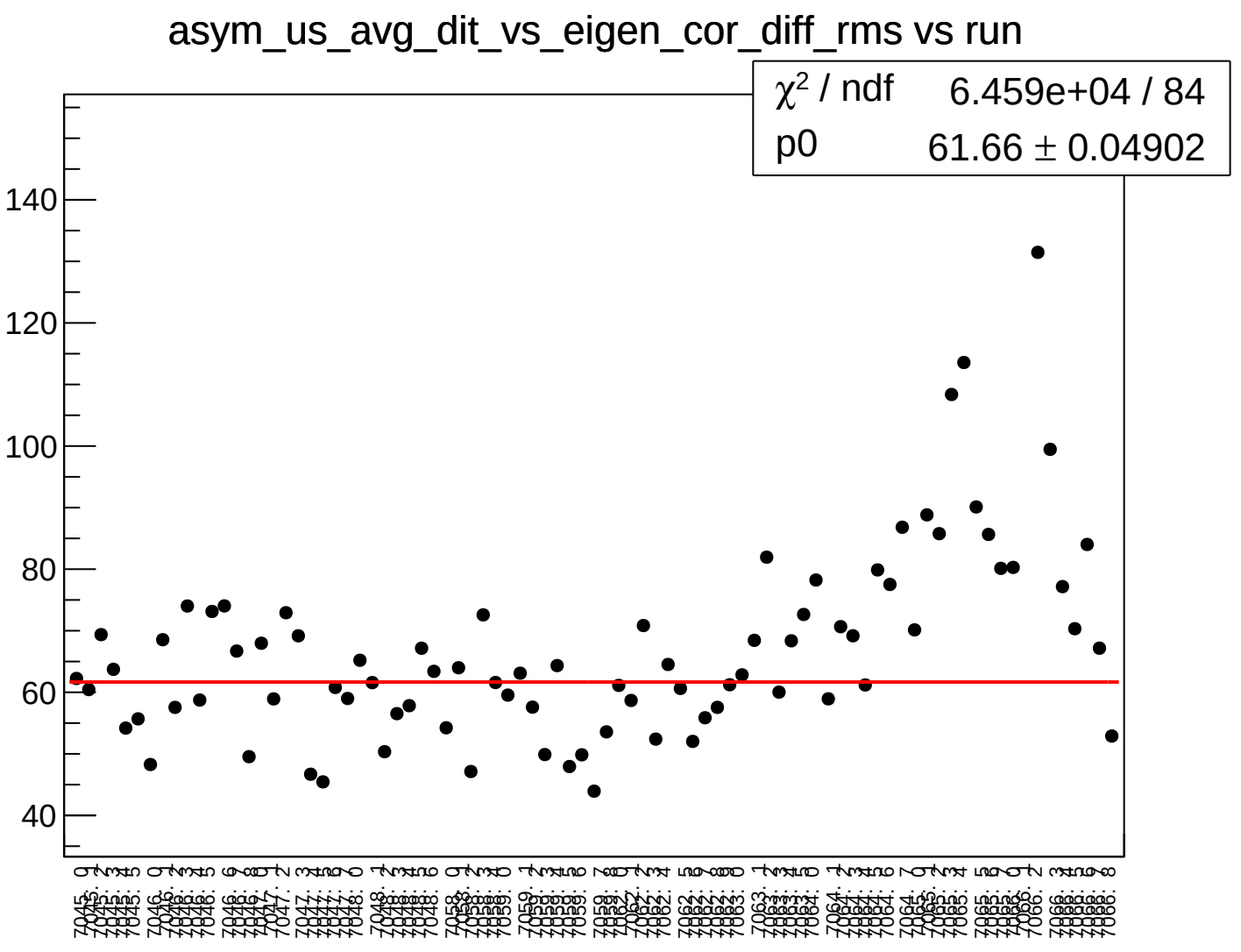

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 84
p0 −0.151 ± 0.06932
pull
Entries 85
Mean −88.8
Std Dev 0

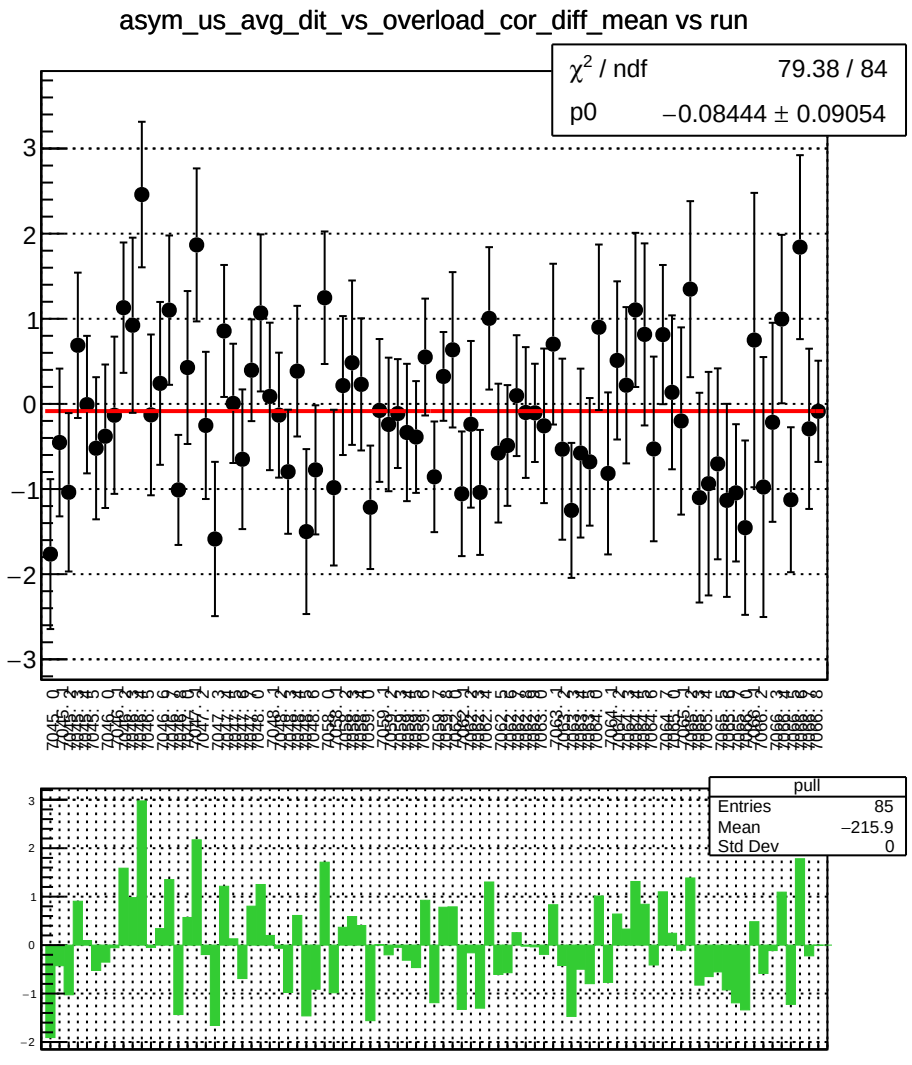

pull1D
Entries 85
Mean 0.008883
Std Dev 0.9946

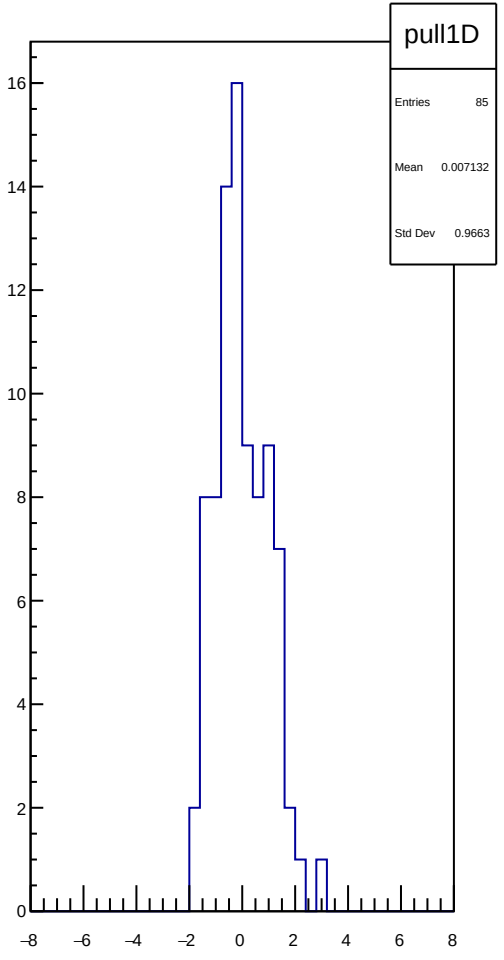

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 84
p0 61.66 ± 0.04902
140
120
100
80
60
40

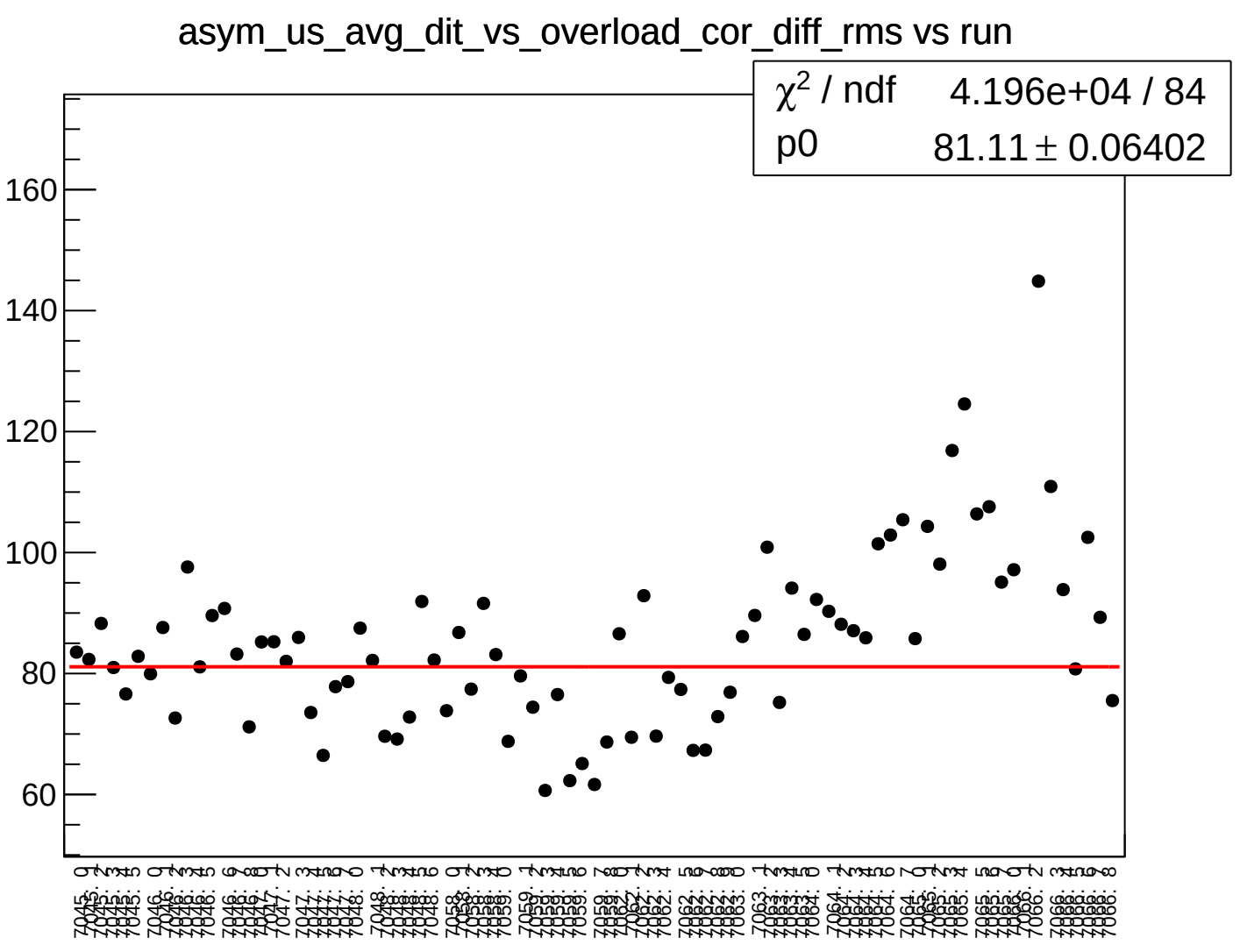

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.08 / 84
p0 −0.151 ± 0.06932
pull
Entries 85
Mean −88.8
Std Dev 0

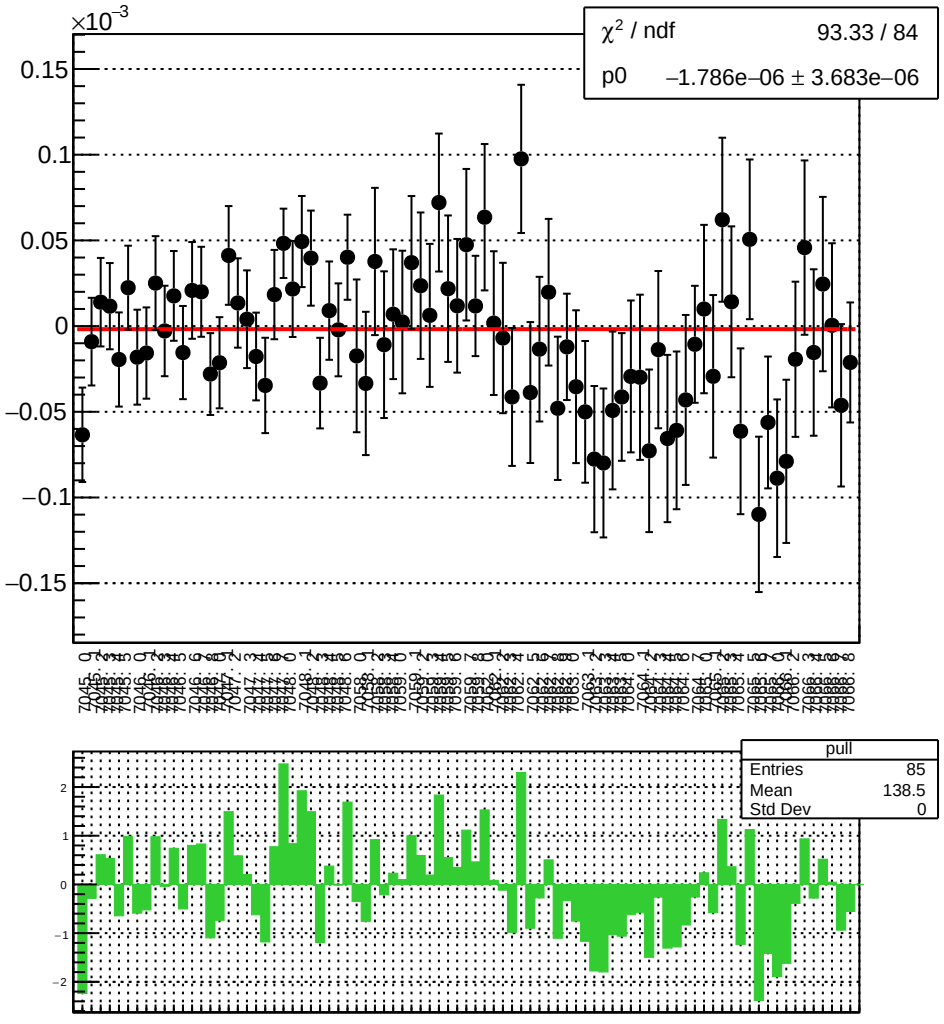

pull1D
Entries 85
Mean 0.008883
Std Dev 0.9946

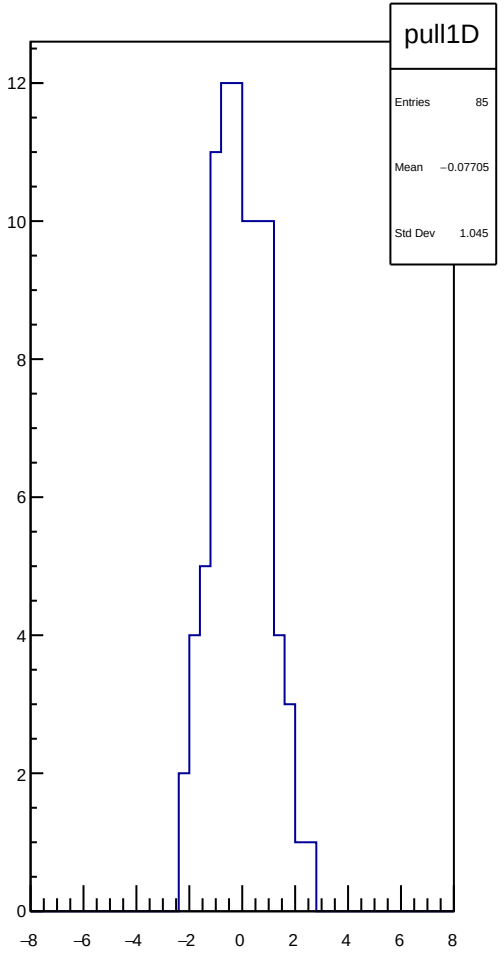

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 84
p0 61.66 ± 0.04902
140
120
100
80
60
40

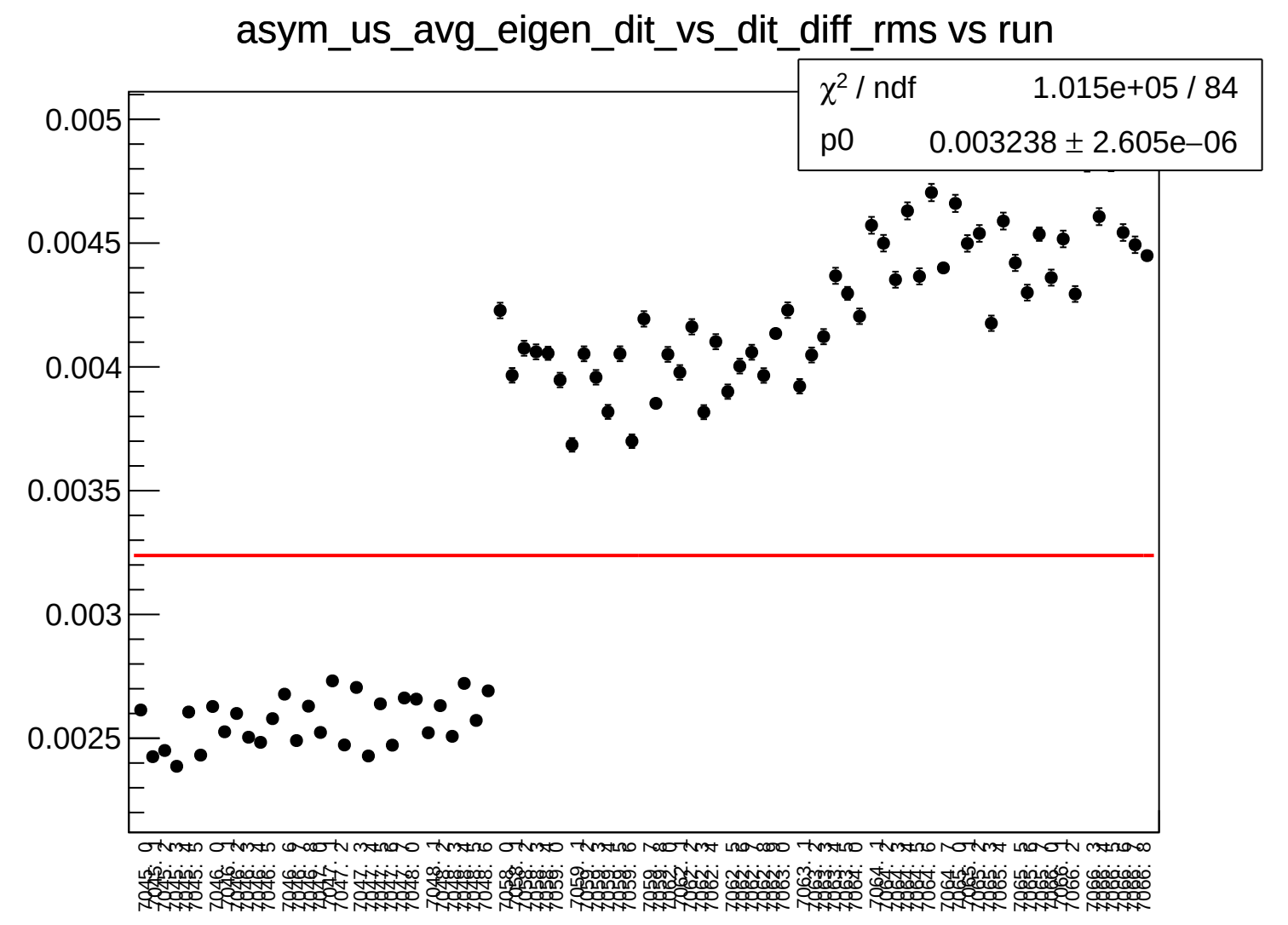

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 79.38 / 84
p0 −0.08444 ± 0.09054
pull
Entries 85
Mean −215.9
Std Dev 0

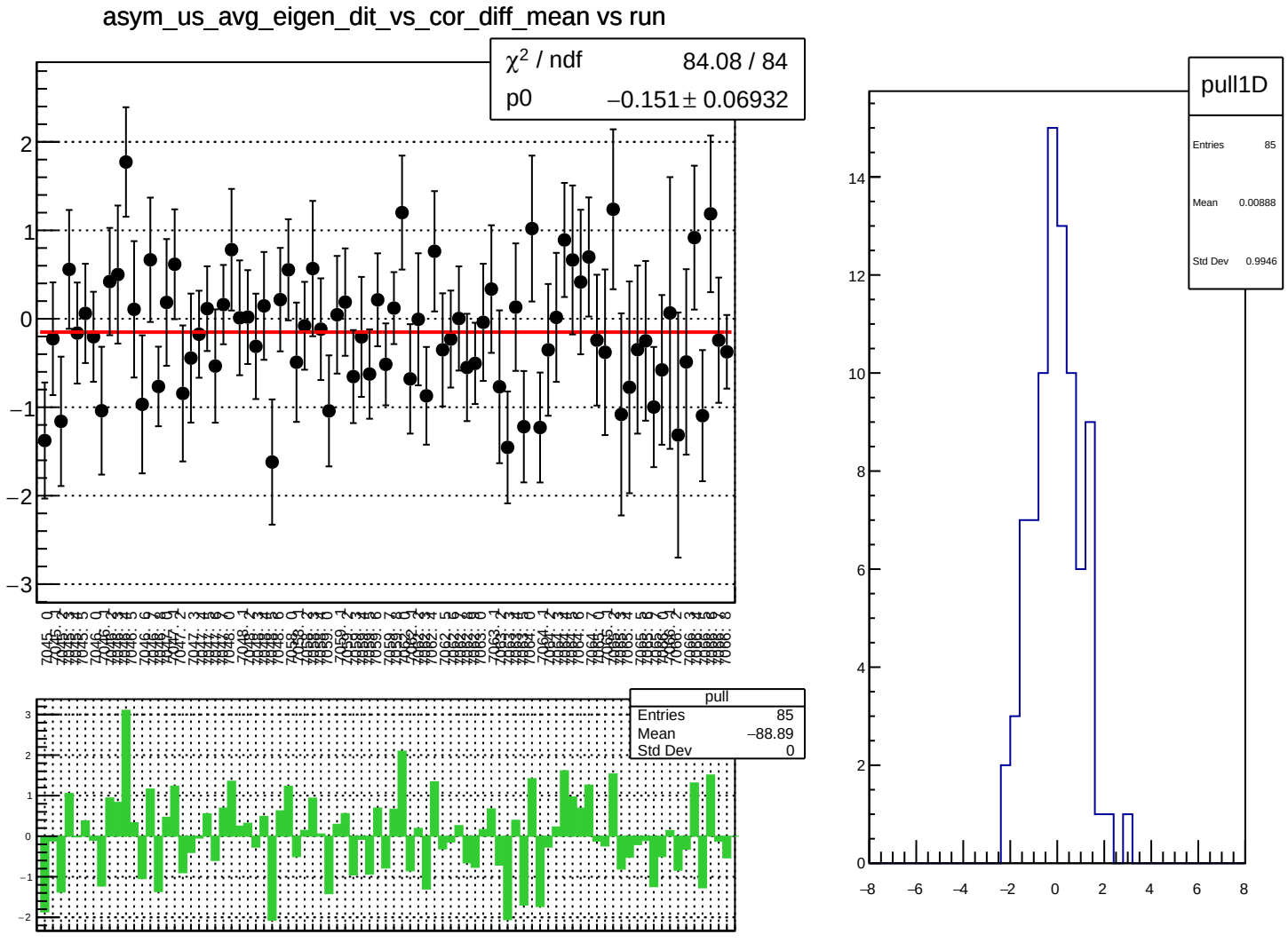

pull1D
Entries 85
Mean 0.007132
Std Dev 0.9663

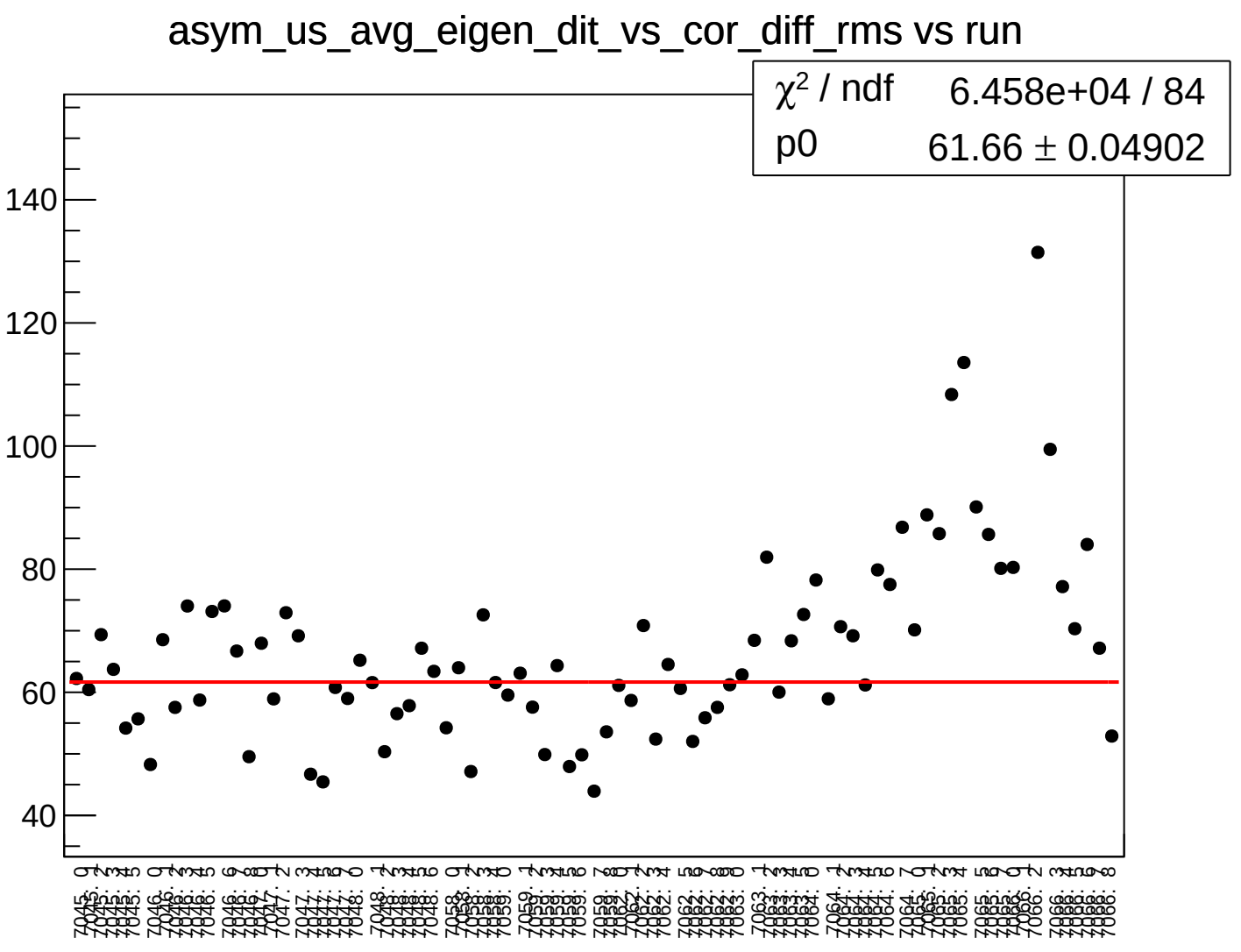

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.196e+04 / 84
p0 81.11 ± 0.06402
160
140
120
100
80
60

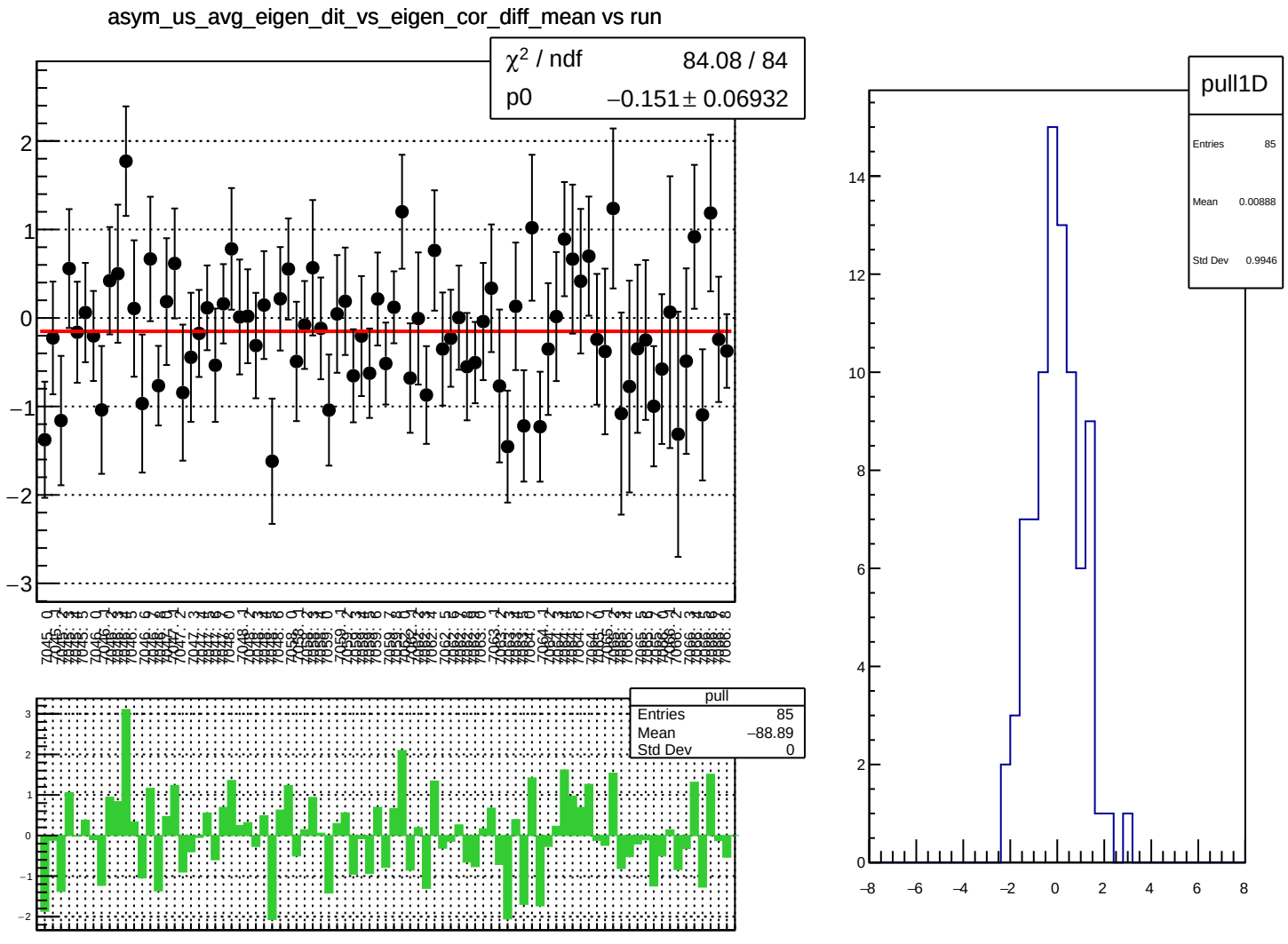

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.33 / 84
p0 −1.786e−06 ± 3.683e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 138.5
Std Dev 0
2
1
0
−1
−2

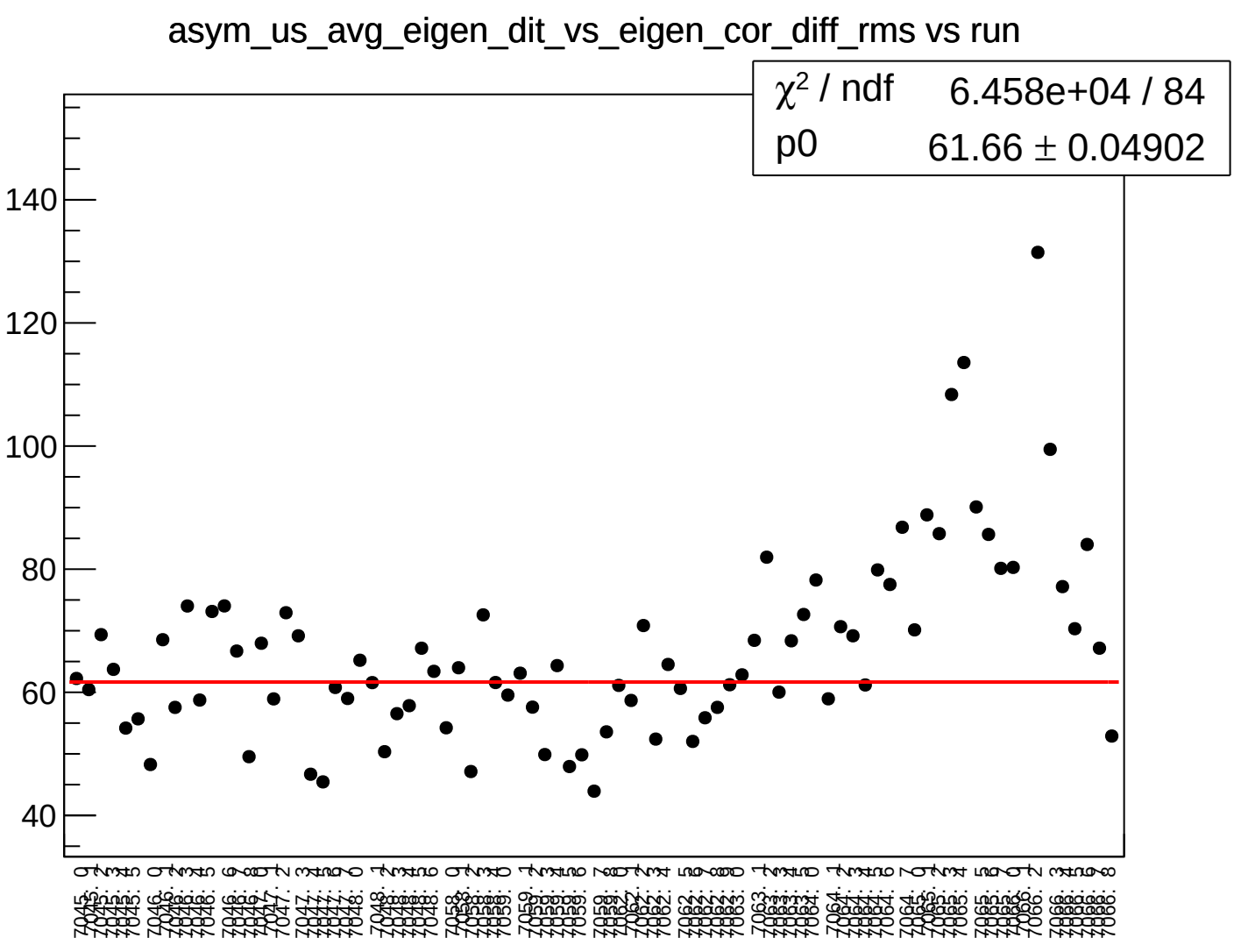

pull1D
Entries 85
Mean −0.07705
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.015e+05 / 84
p0 0.003238 ± 2.605e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

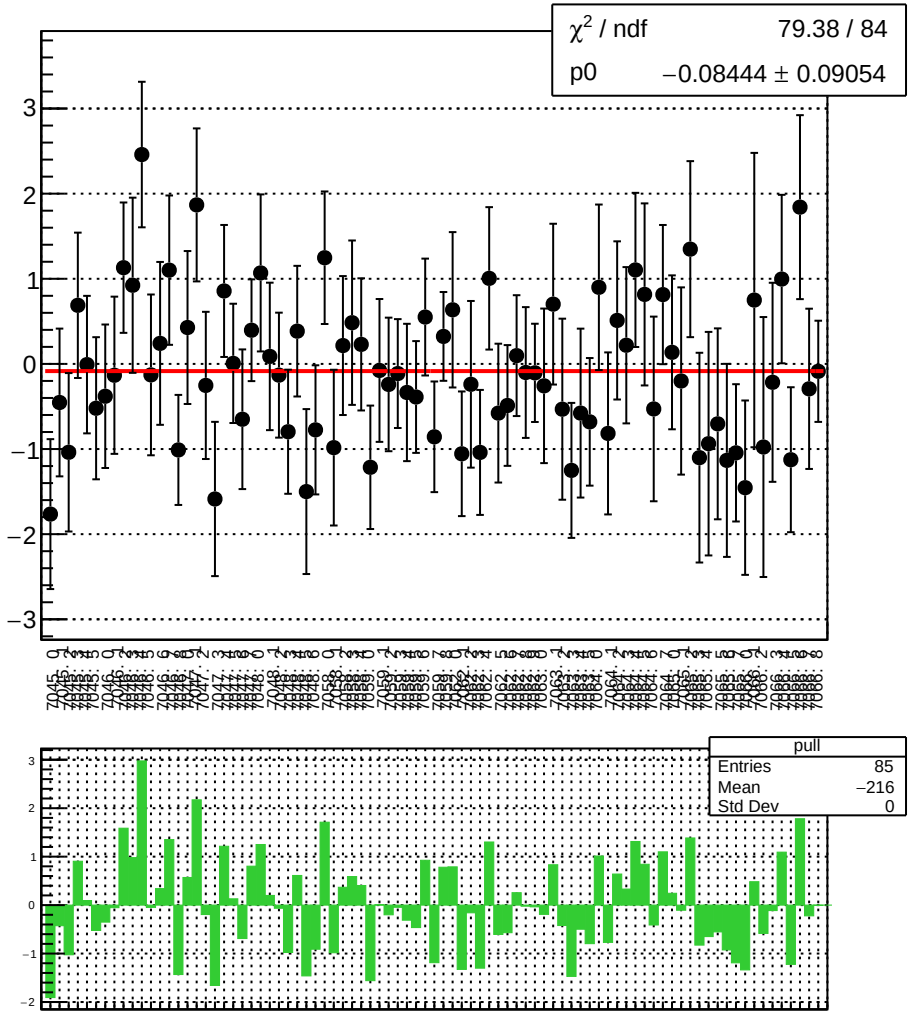

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 84
p0 −0.151 ± 0.06932
pull
Entries 85
Mean −88.89
Std Dev 0
pull1D
Entries 85
Mean 0.00888
Std Dev 0.9946

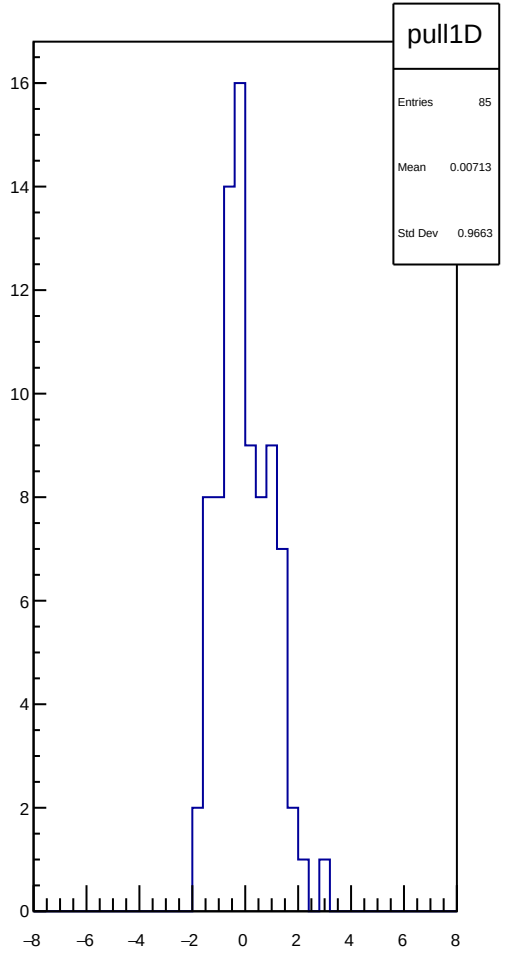

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.458e+04 / 84
p0 61.66 ± 0.04902
140
120
100
80
60
40

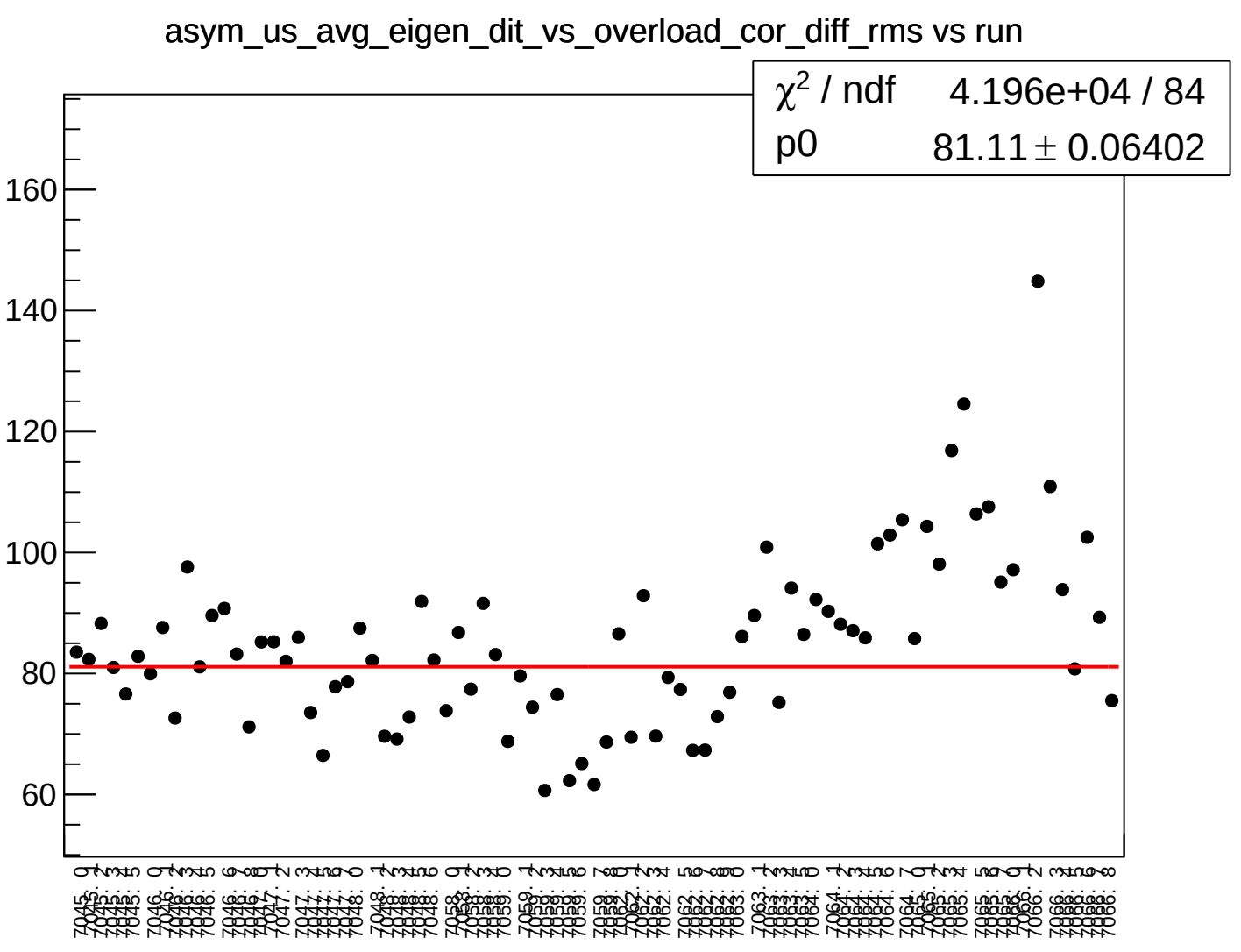

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.08 / 84
p0 −0.151 ± 0.06932
pull
Entries 85
Mean −88.89
Std Dev 0
pull1D
Entries 85
Mean 0.00888
Std Dev 0.9946

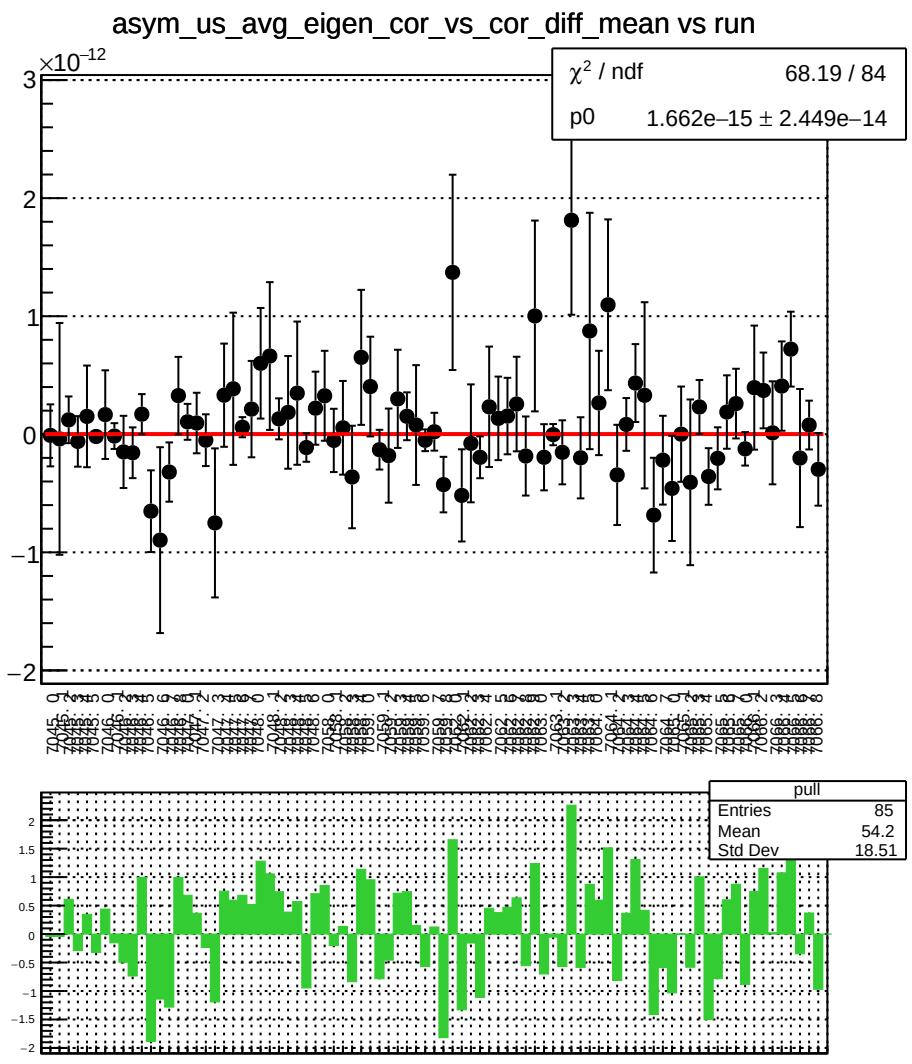

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.458e+04 / 84
p0 61.66 ± 0.04902
140
120
100
80
60
40

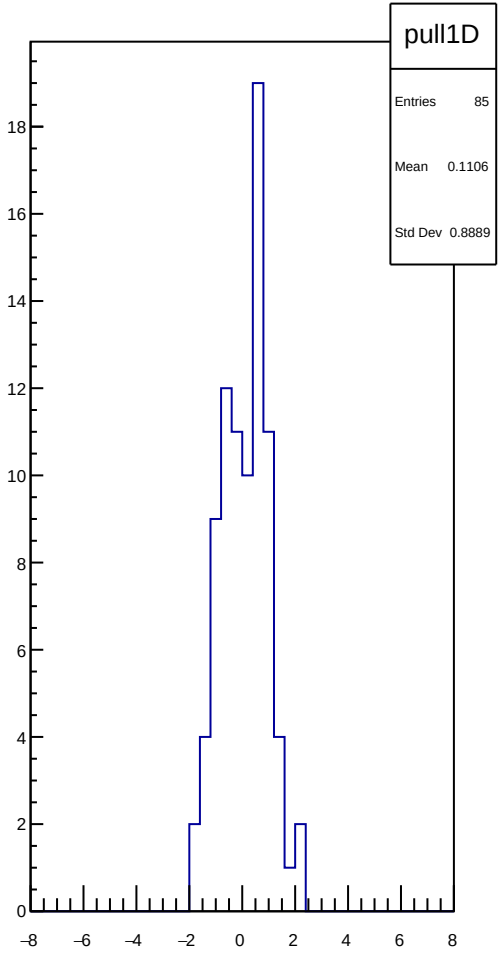
asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run

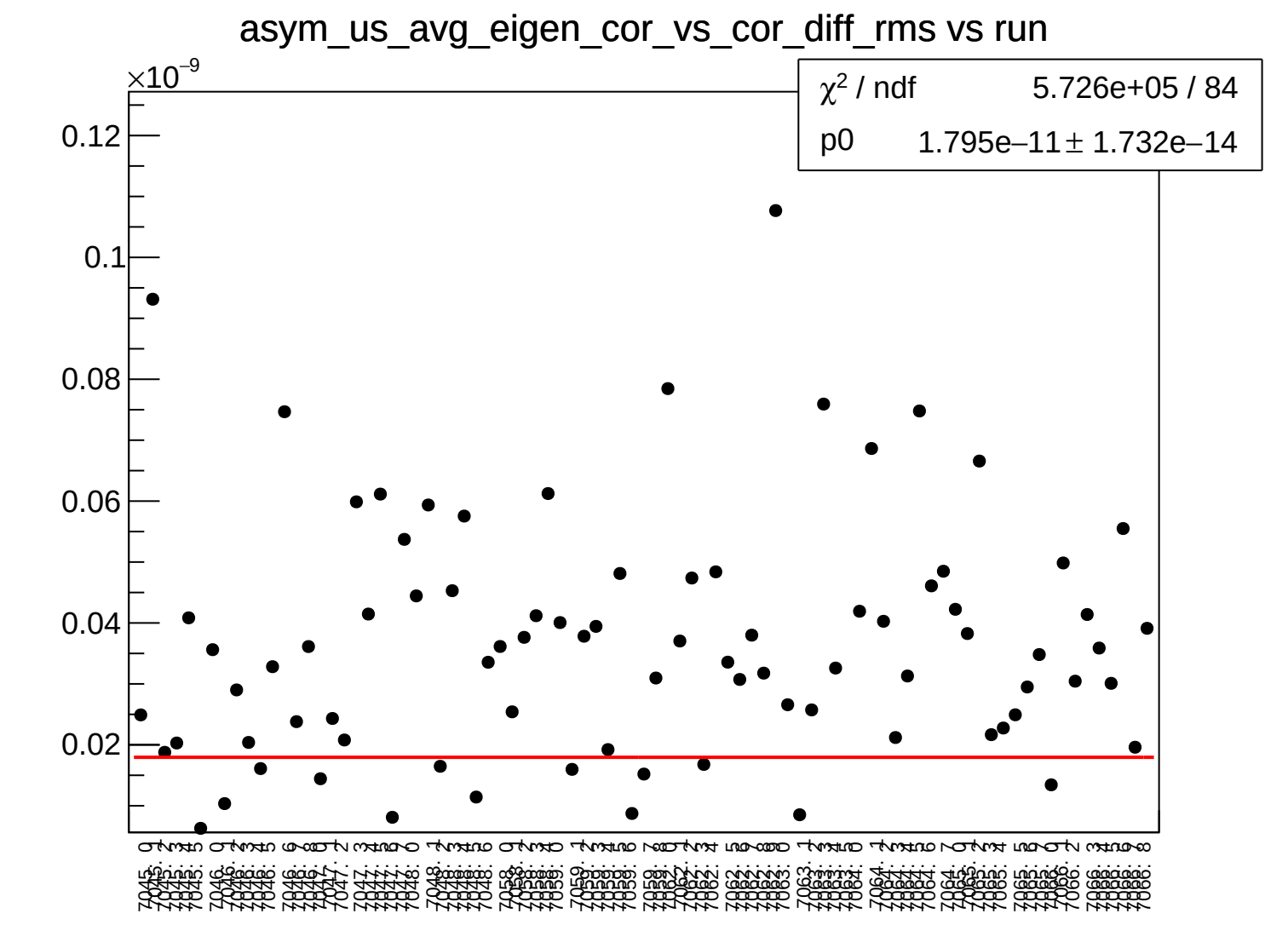


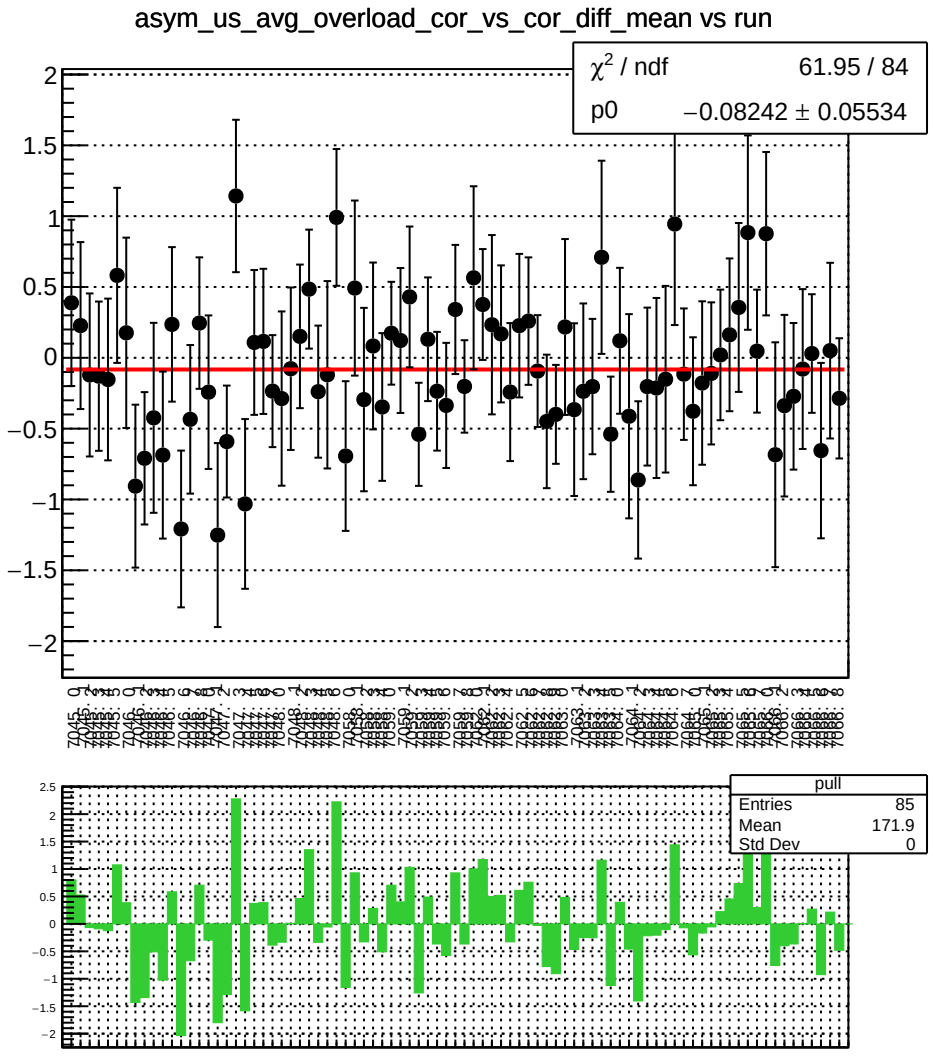


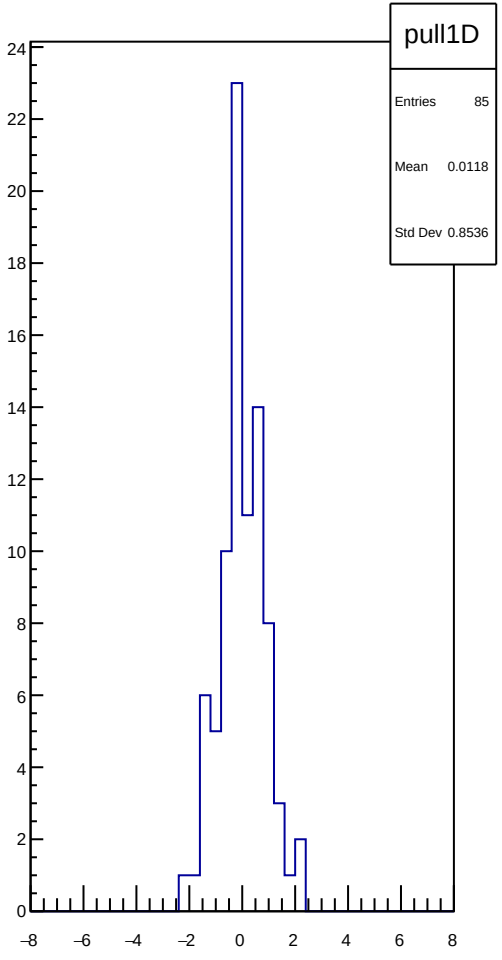

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.196e+04 / 84
p0 81.11 ± 0.06402
160
140
120
100
80
60

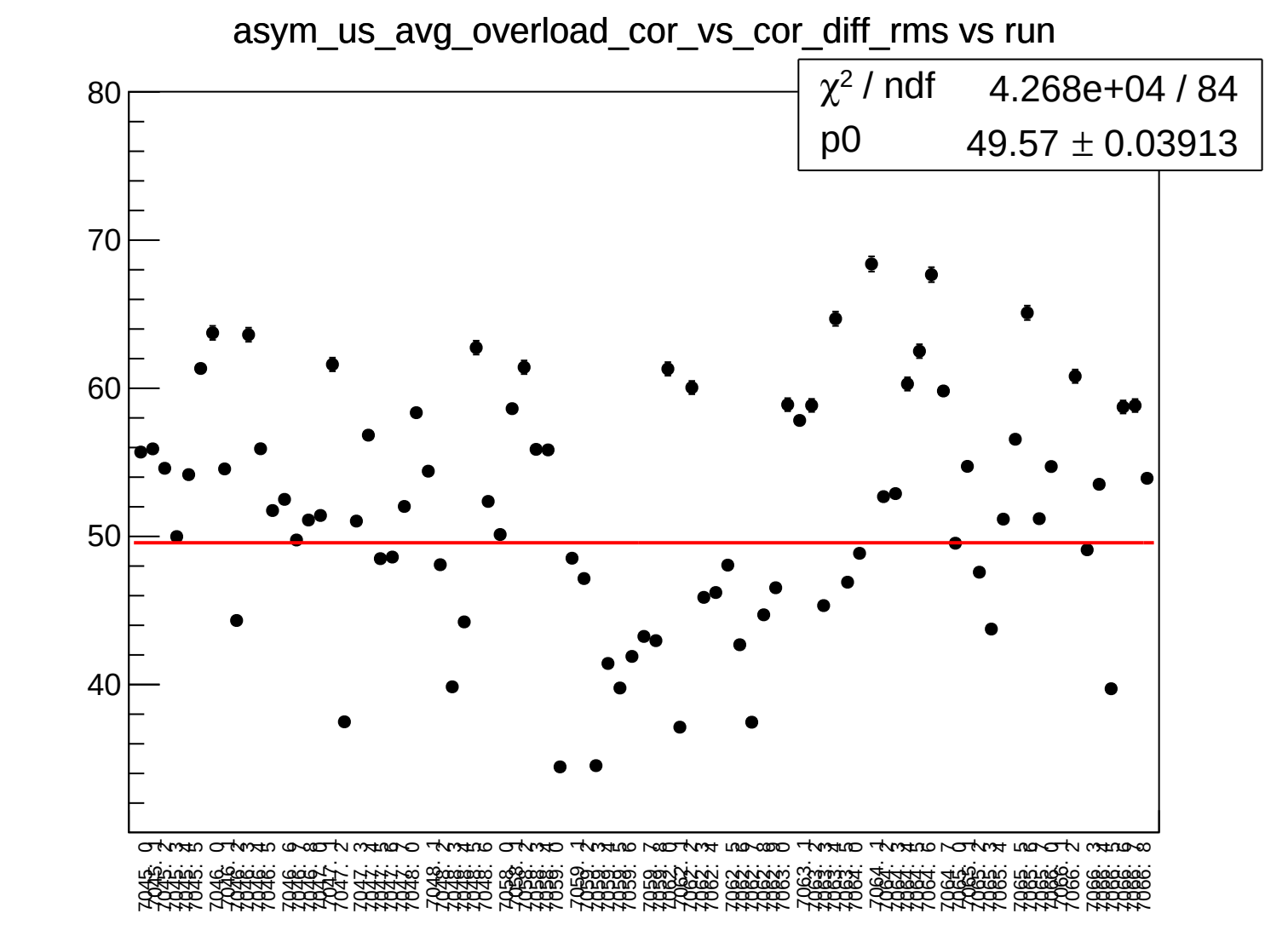

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.19 / 84
p0 1.662e−15 ± 2.449e−14
pull
Entries 85
Mean 54.2
Std Dev 18.51

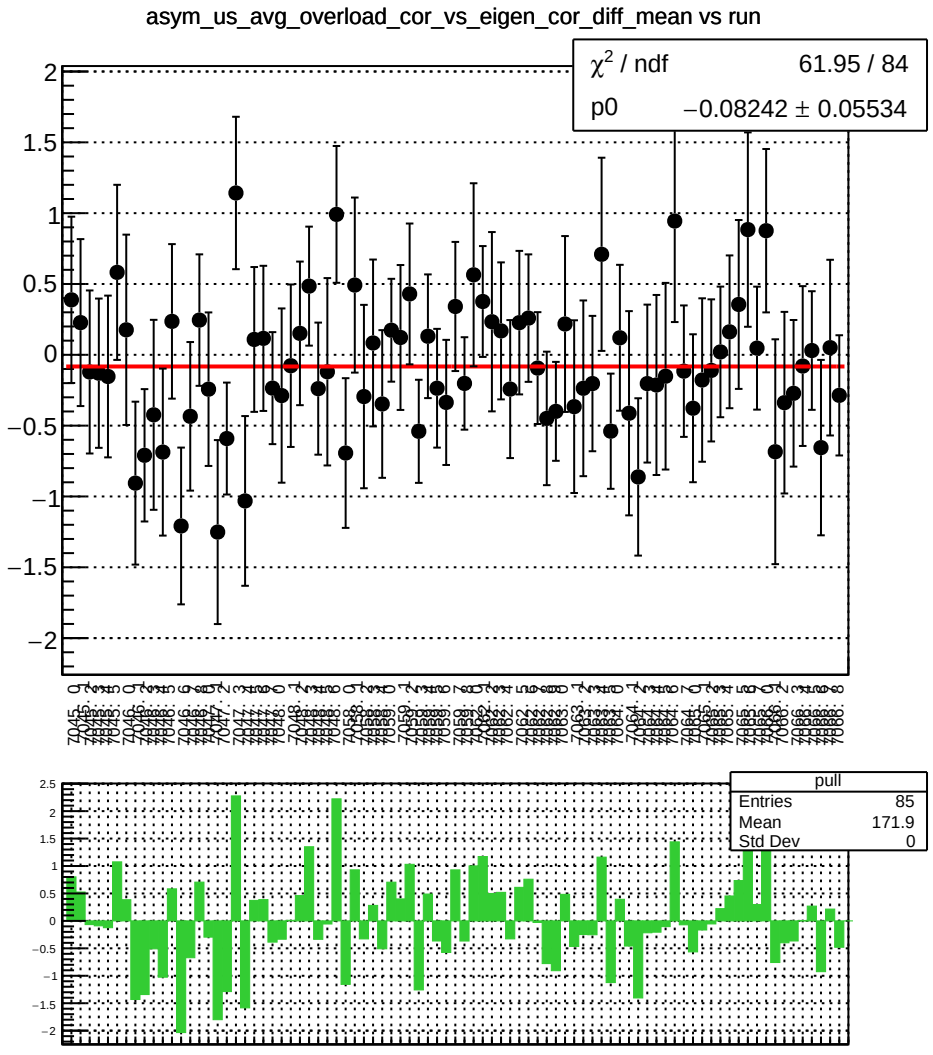

pull1D
Entries 85
Mean 0.1106
Std Dev 0.8889

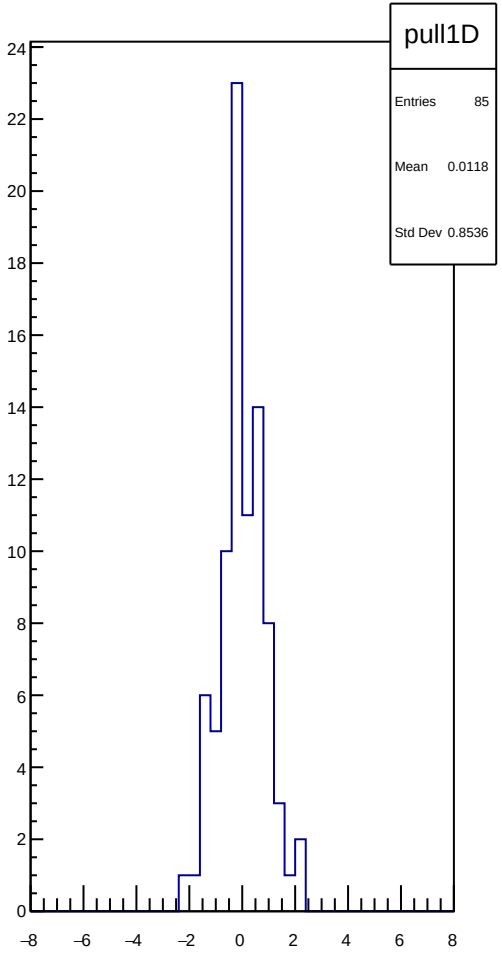

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.726e+05 / 84
p0 1.795e−11 ± 1.732e−14
0.12
0.1
0.08
0.06
0.04
0.02

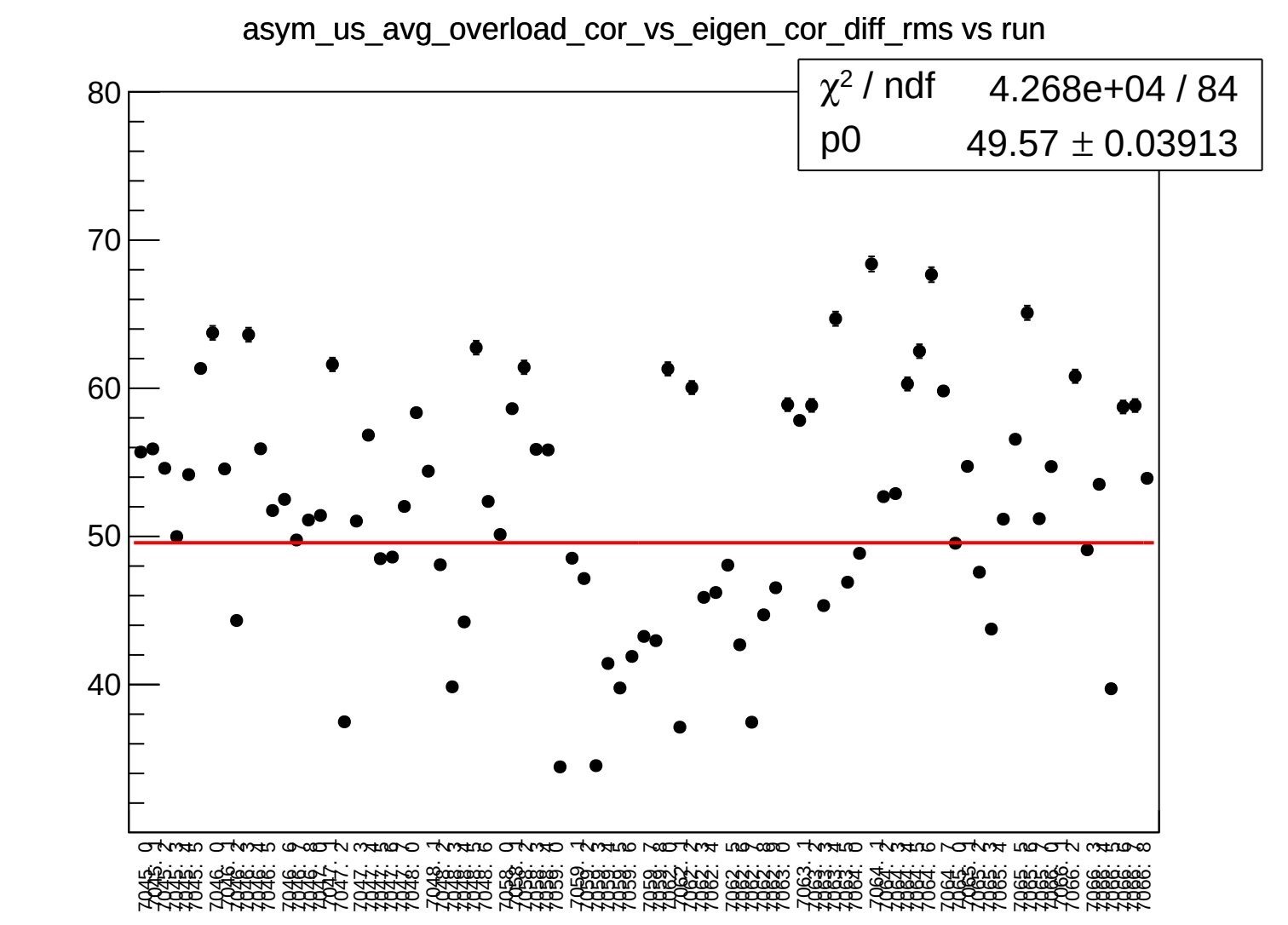

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 61.95 / 84
p0 −0.08242 ± 0.05534
pull
Entries 85
Mean 171.9
Std Dev 0

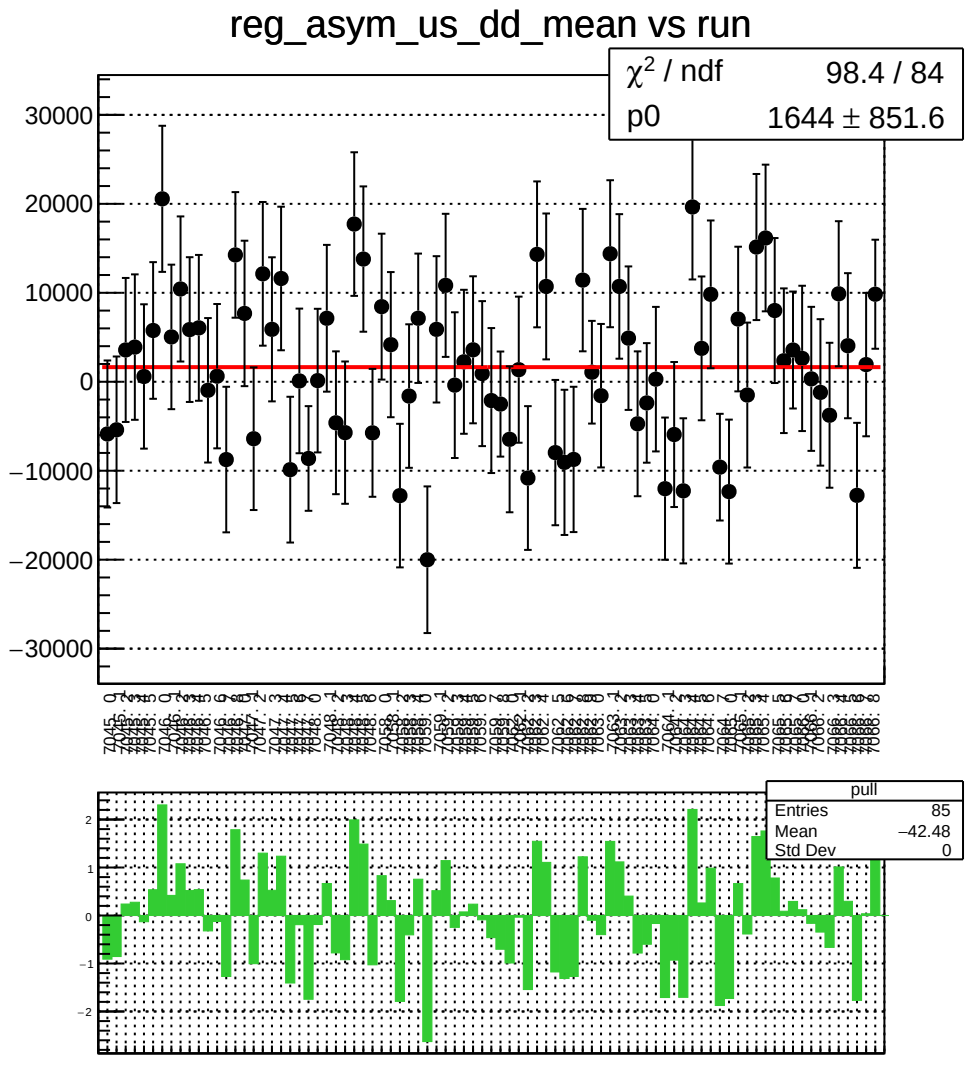

pull1D
Entries 85
Mean 0.0118
Std Dev 0.8536

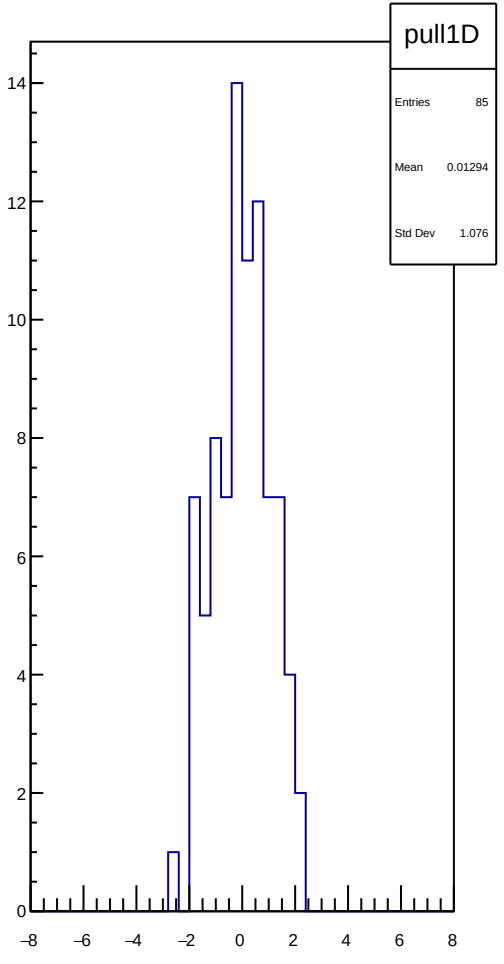

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.268e+04 / 84
p0 49.57 ± 0.03913
80
70
60
50
40

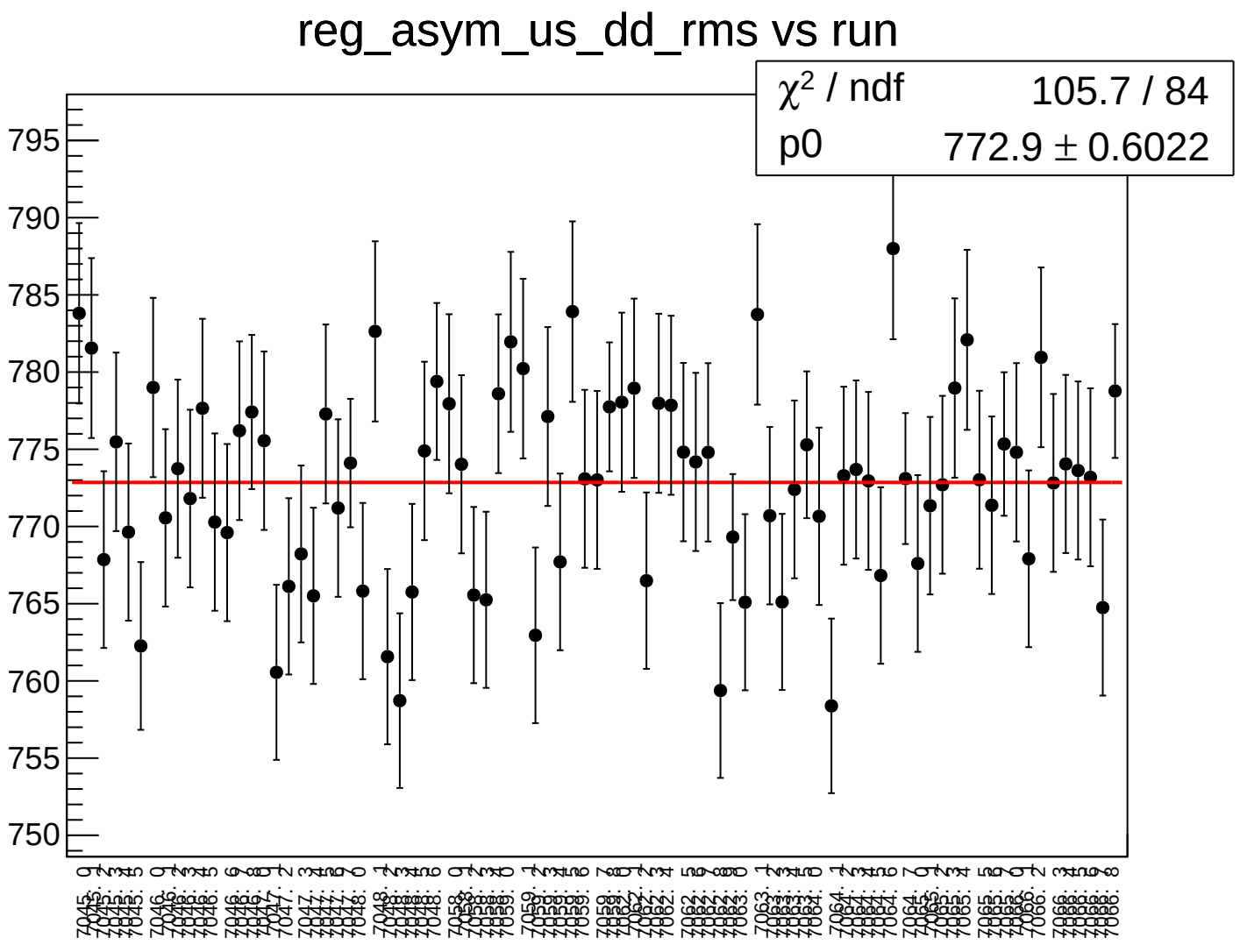

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.95 / 84
p0 −0.08242 ± 0.05534
pull
Entries 85
Mean 171.9
Std Dev 0

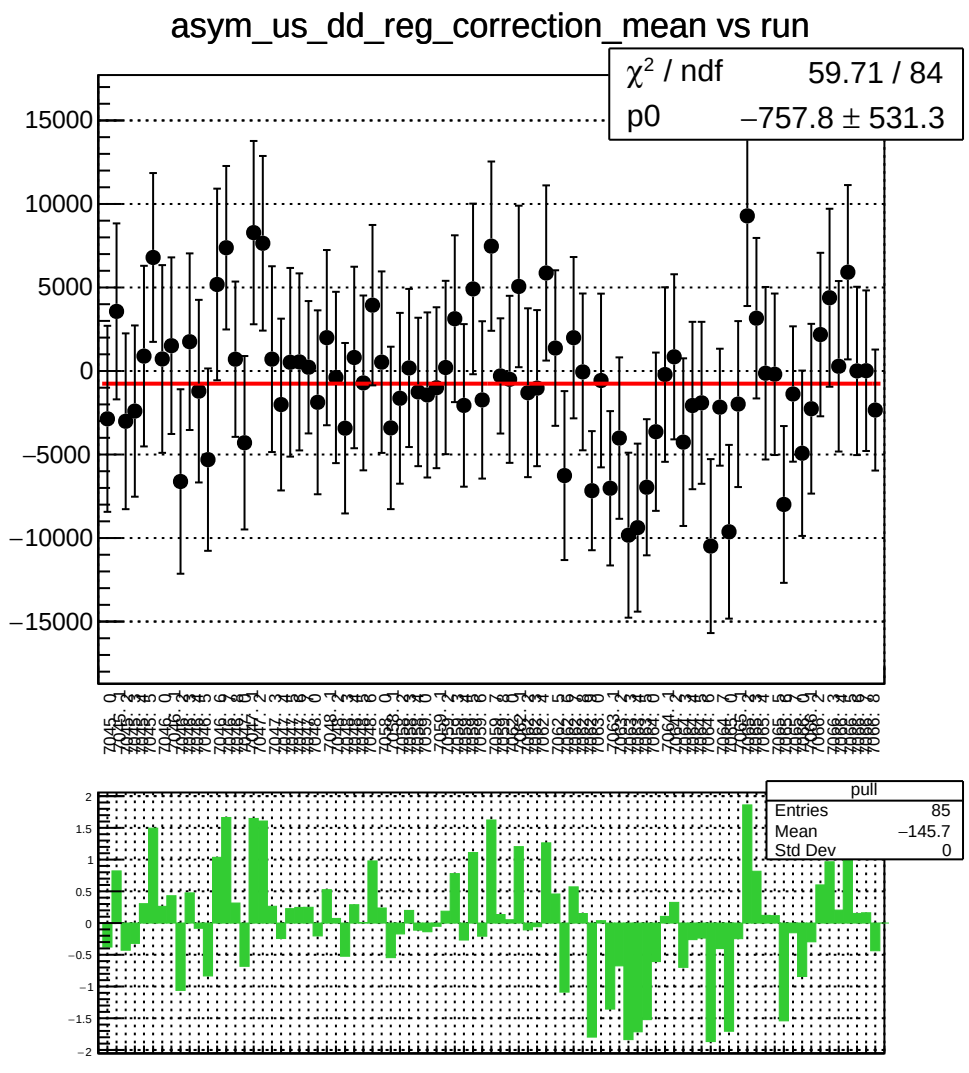

pull1D
Entries 85
Mean 0.0118
Std Dev 0.8536

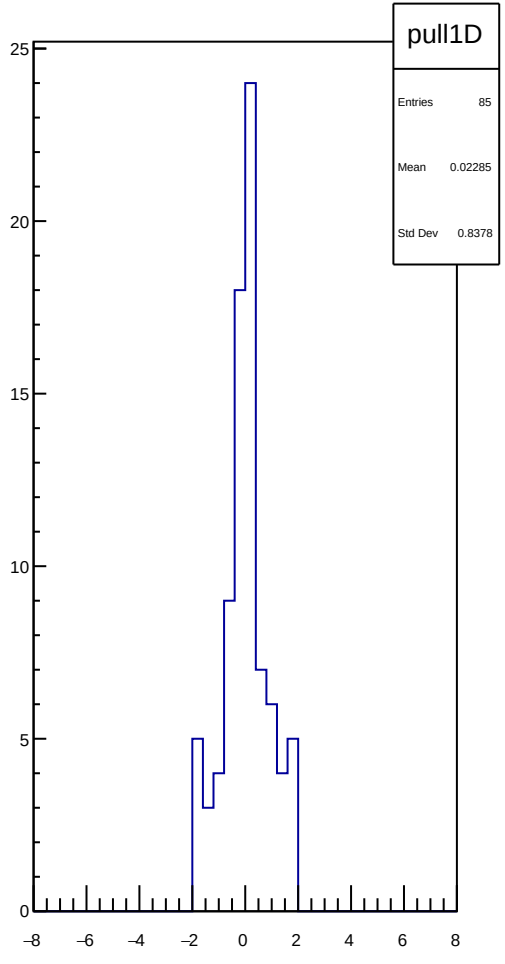

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.268e+04 / 84
p0 49.57 ± 0.03913
80
70
60
50
40

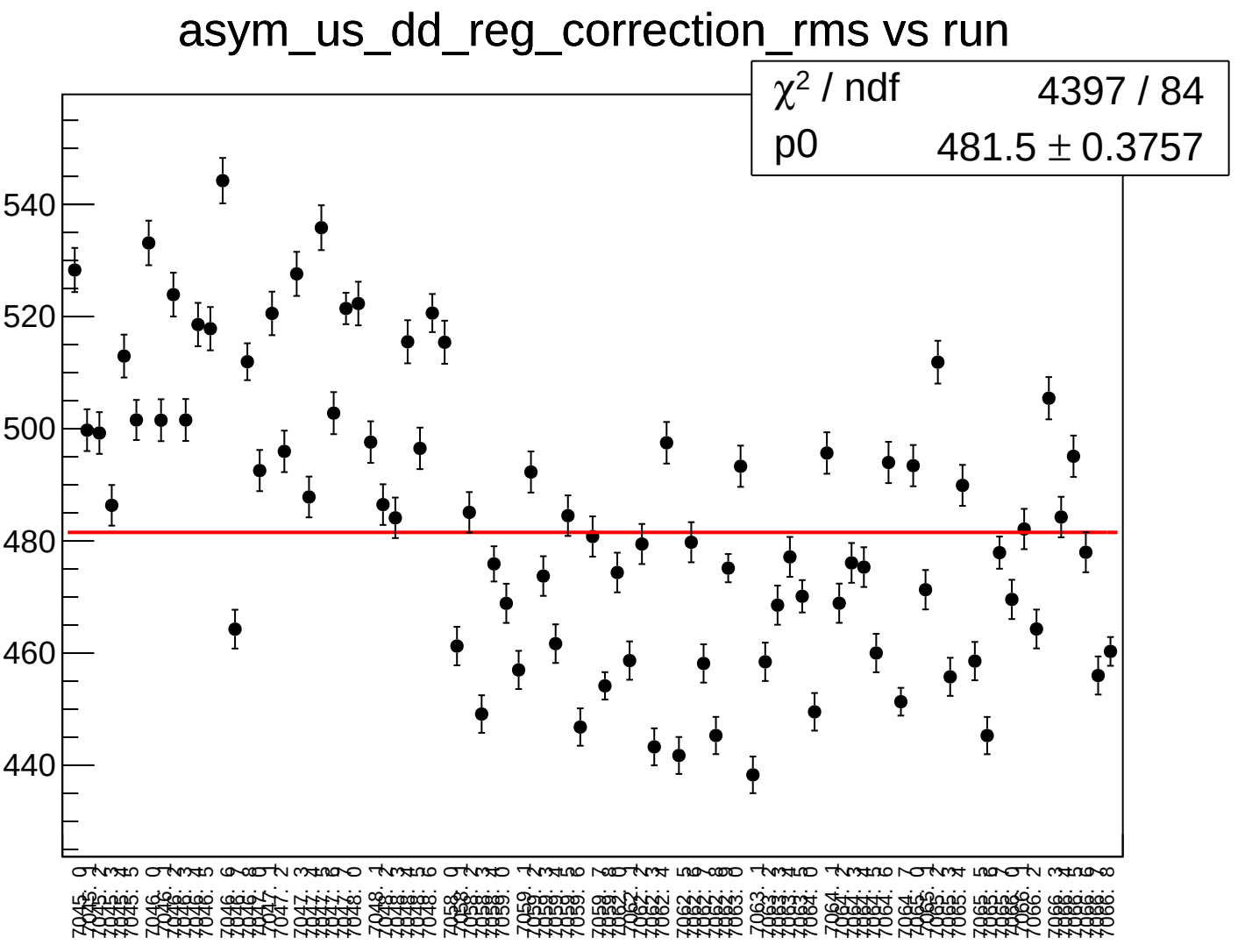

reg_asym_us_dd_mean vs run
χ² / ndf 98.4 / 84
p0 1644 ± 851.6
pull
Entries 85
Mean −42.48
Std Dev 0

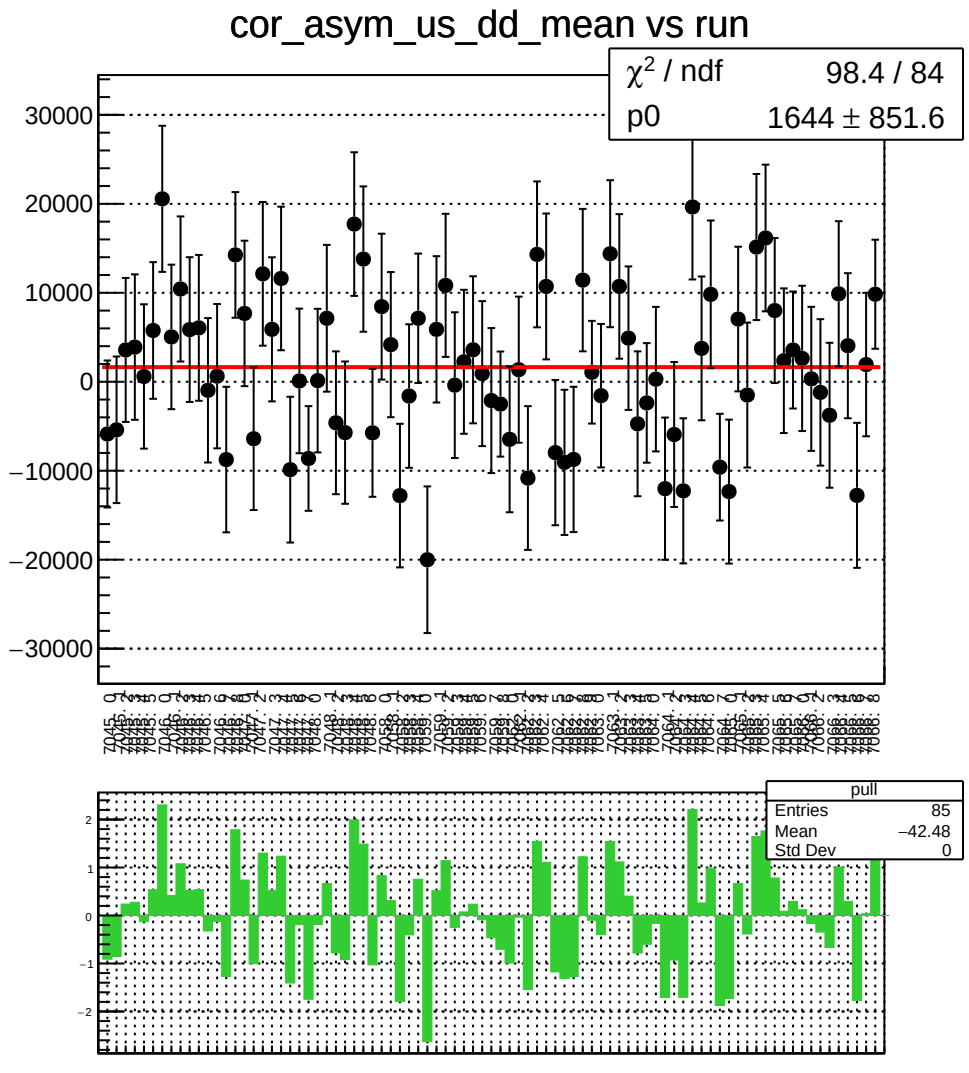

pull1D
Entries 85
Mean 0.01294
Std Dev 1.076

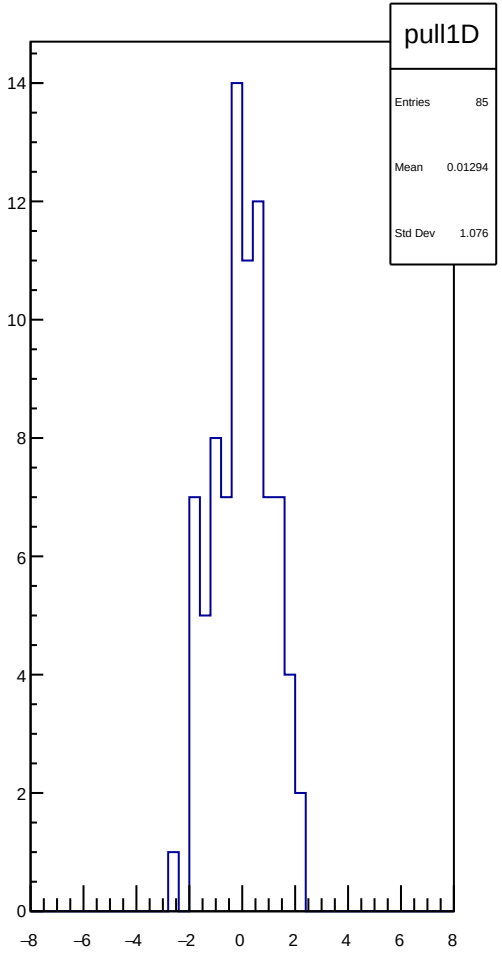

reg_asym_us_dd_rms vs run
χ² / ndf 105.7 / 84
p0 772.9 ± 0.6022
795
790
785
780
775
770
765
760
755
750

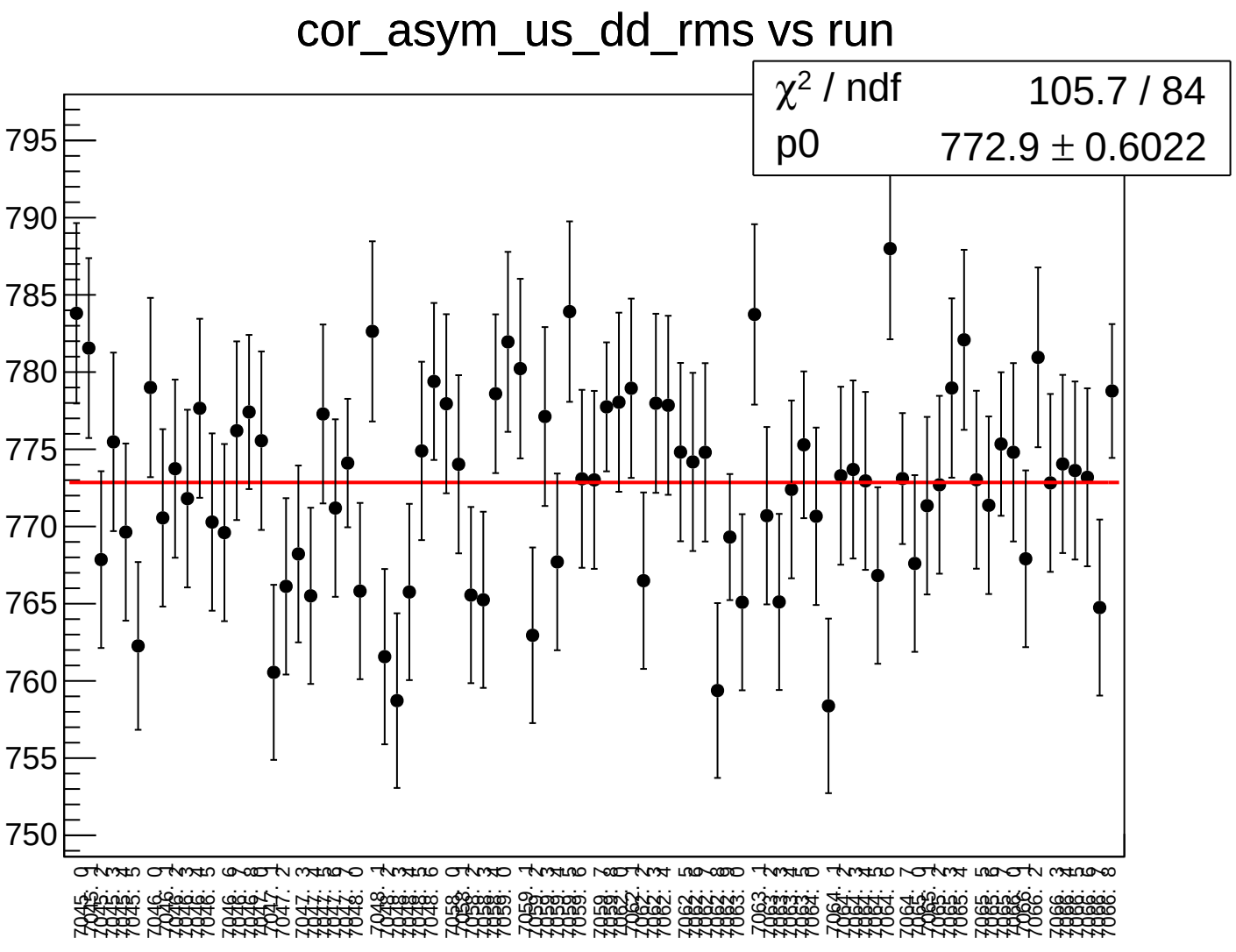

asym_us_dd_reg_correction_mean vs run
χ² / ndf 59.71 / 84
p0 −757.8 ± 531.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −145.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

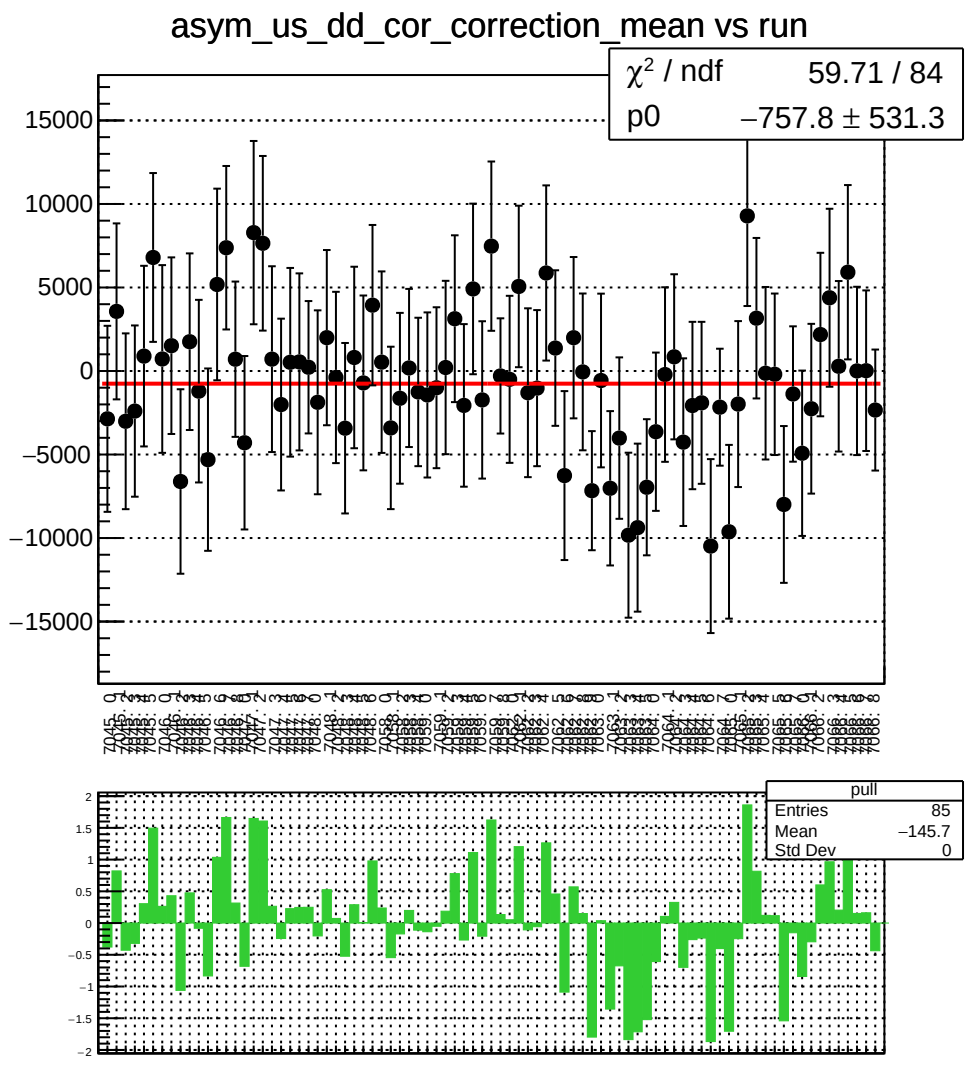

pull1D
Entries 85
Mean 0.02285
Std Dev 0.8378
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

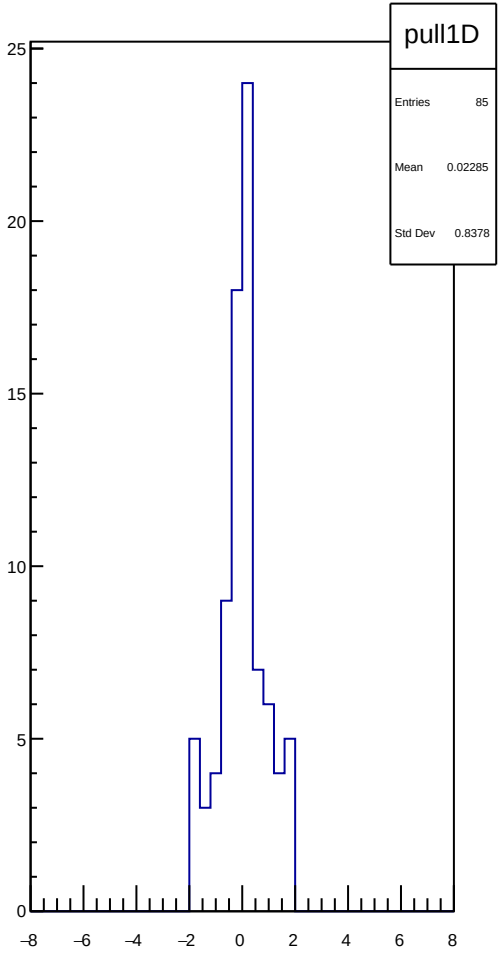

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4397 / 84
p0 481.5 ± 0.3757
540
520
500
480
460
440

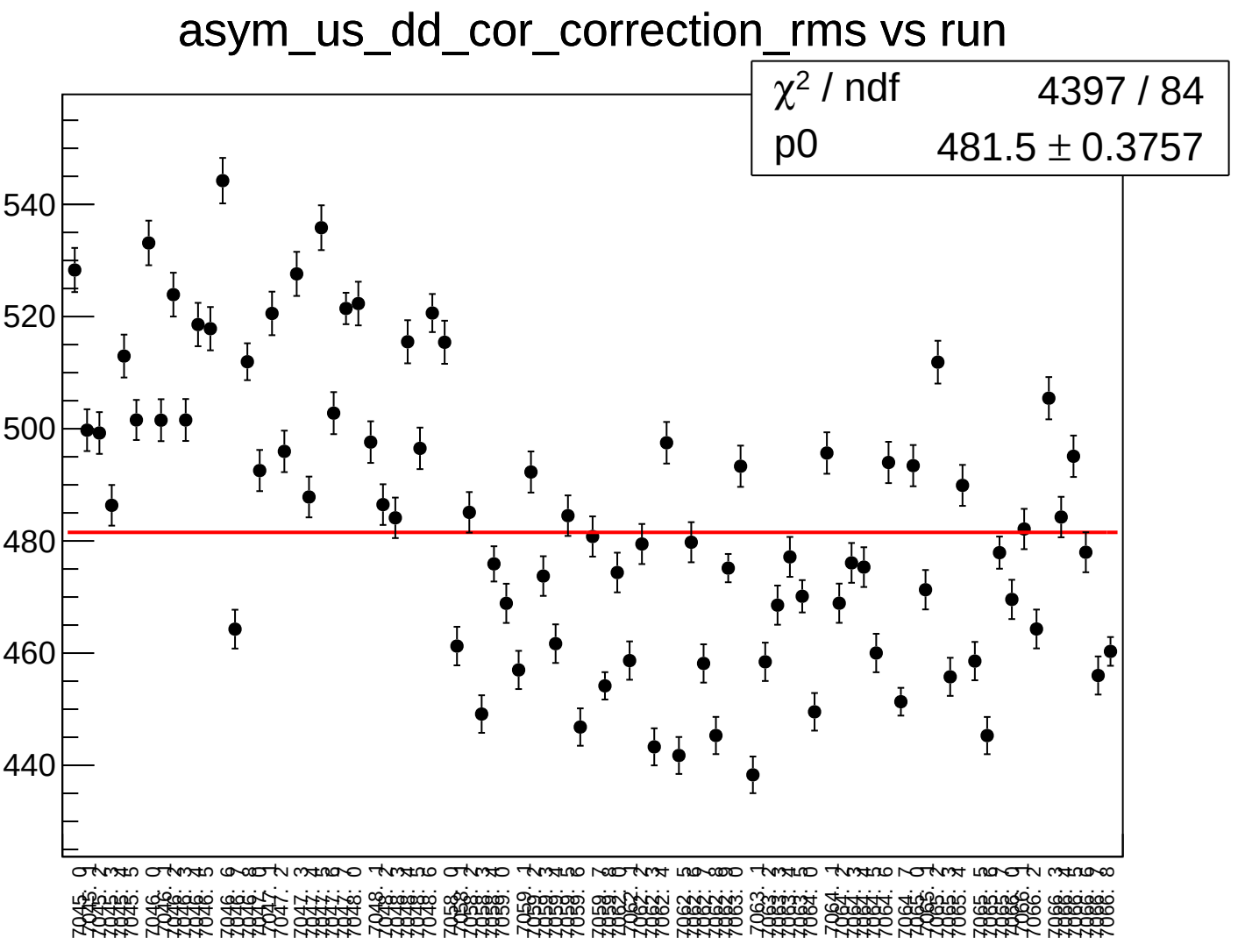

cor_asym_us_dd_mean vs run
χ² / ndf 98.4 / 84
p0 1644 ± 851.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −42.48
Std Dev 0
2
1
0
−1
−2

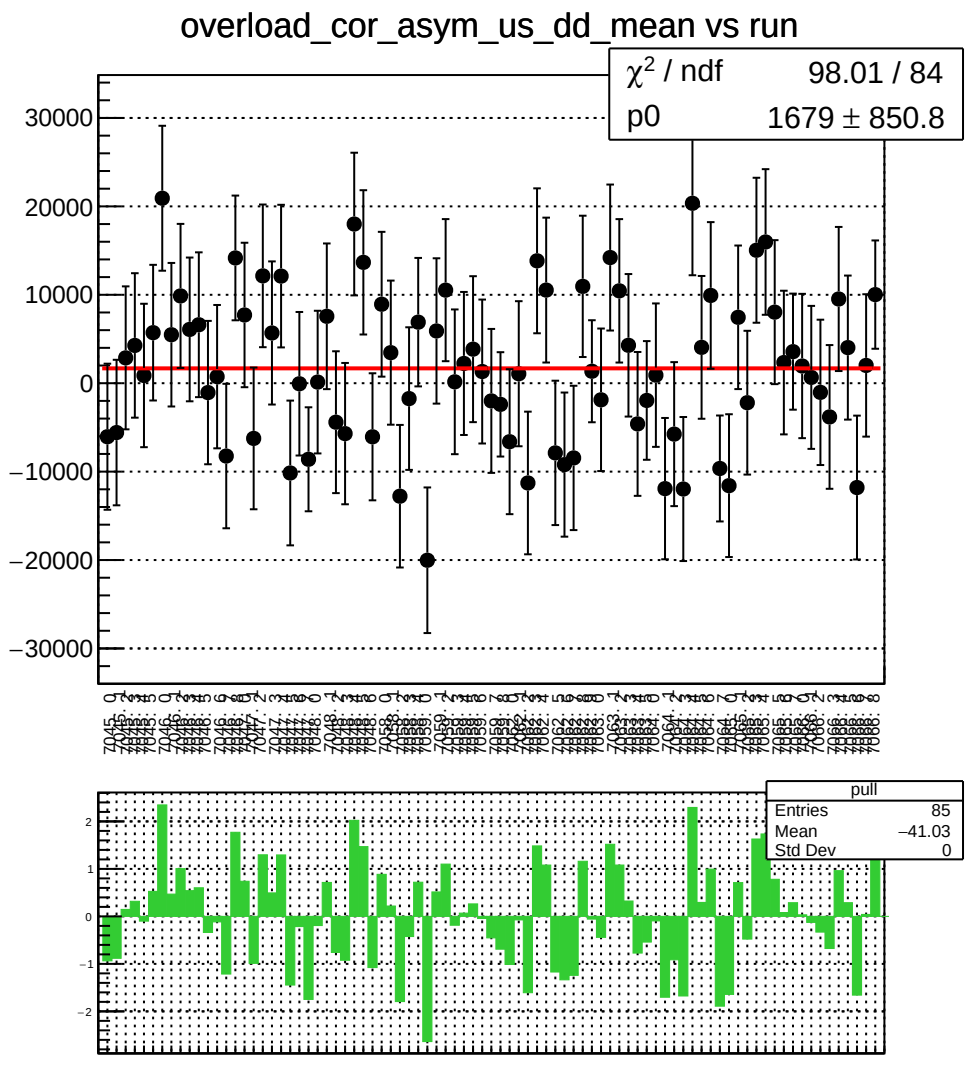

pull1D
Entries 85
Mean 0.01294
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

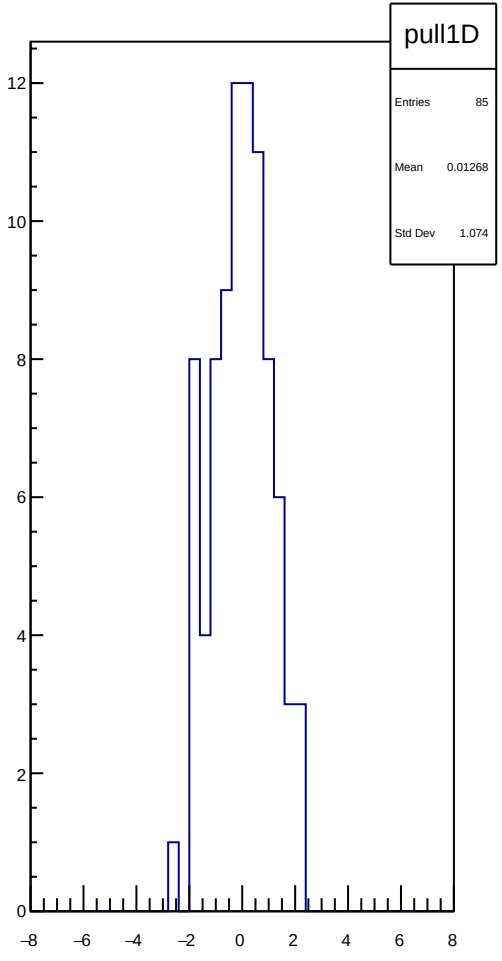

cor_asym_us_dd_rms vs run
χ² / ndf 105.7 / 84
p0 772.9 ± 0.6022
795
790
785
780
775
770
765
760
755
750

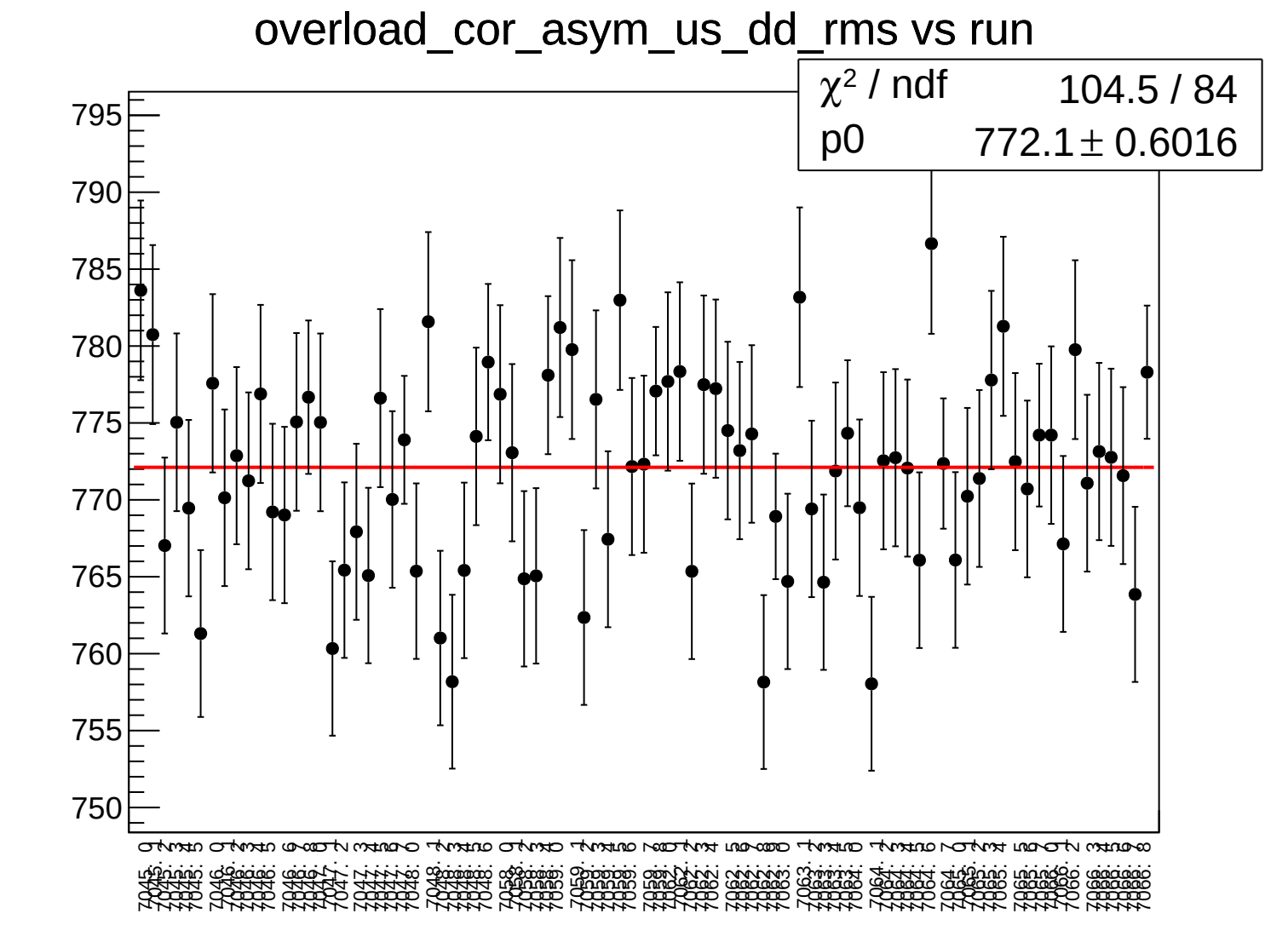

asym_us_dd_cor_correction_mean vs run
χ² / ndf 59.71 / 84
p0 −757.8 ± 531.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −145.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

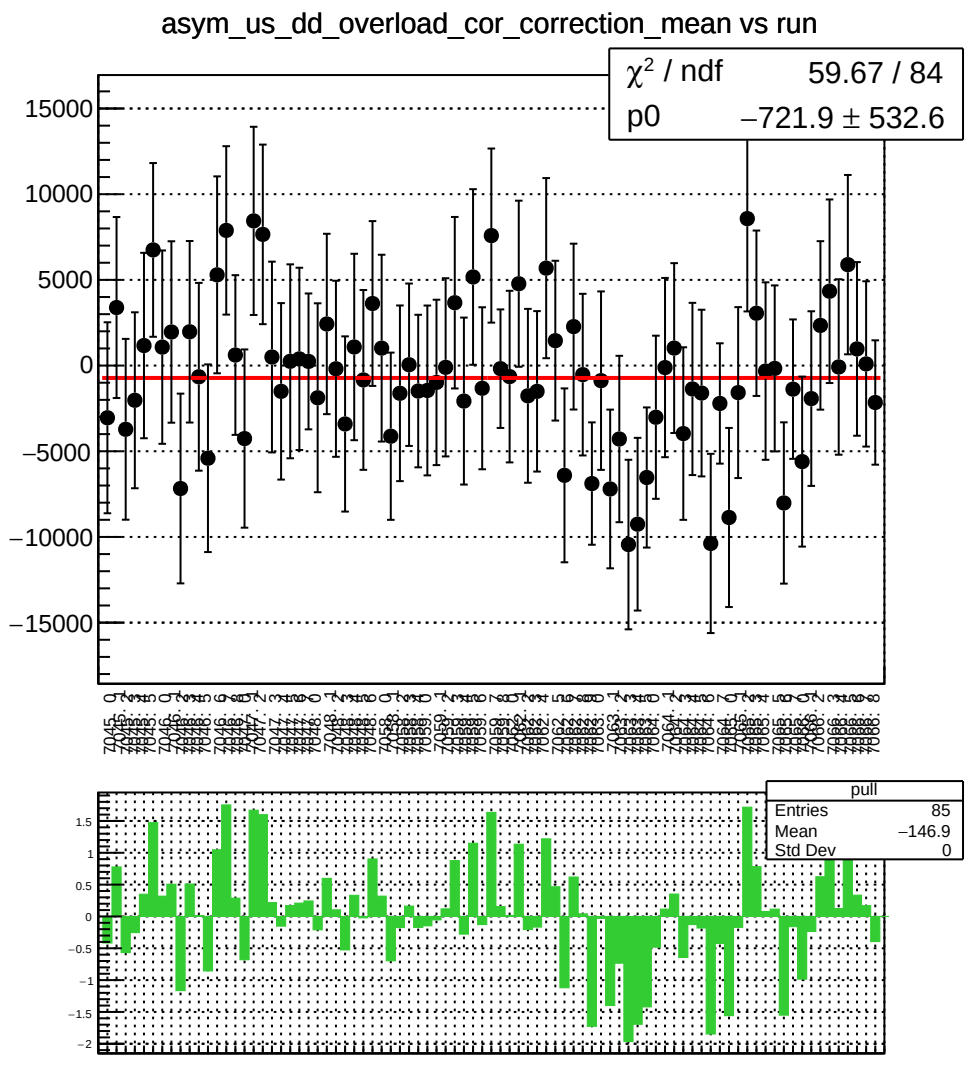

pull1D
Entries 85
Mean 0.02285
Std Dev 0.8378
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

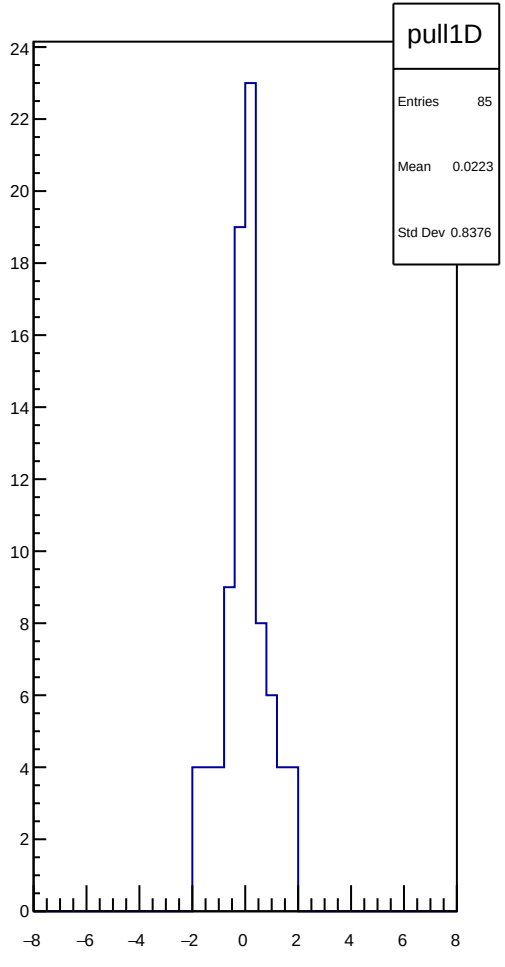

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4397 / 84
p0 481.5 ± 0.3757
540
520
500
480
460
440

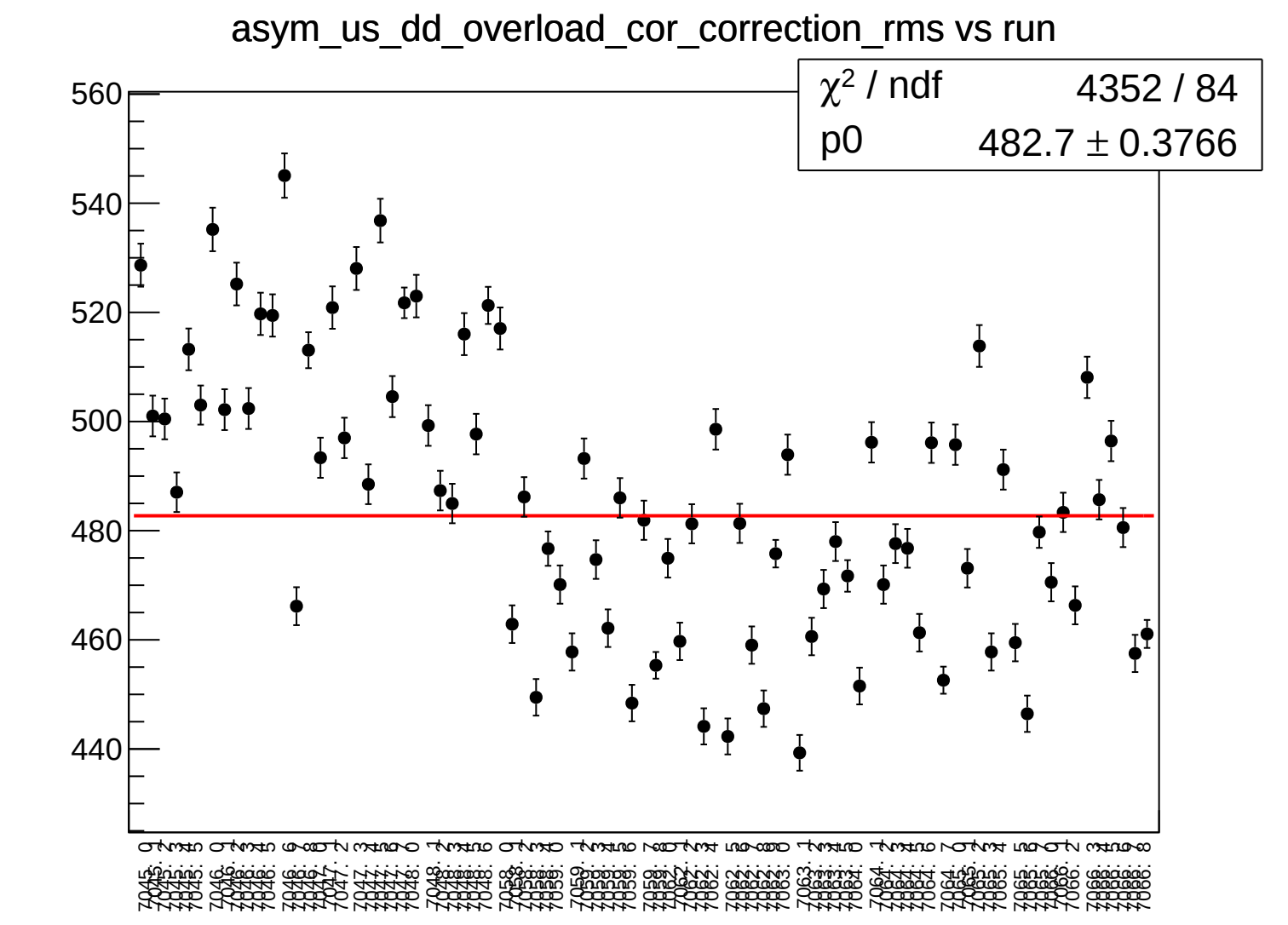

overload_cor_asym_us_dd_mean vs run
χ² / ndf 98.01 / 84
p0 1679 ± 850.8
pull
Entries 85
Mean −41.03
Std Dev 0

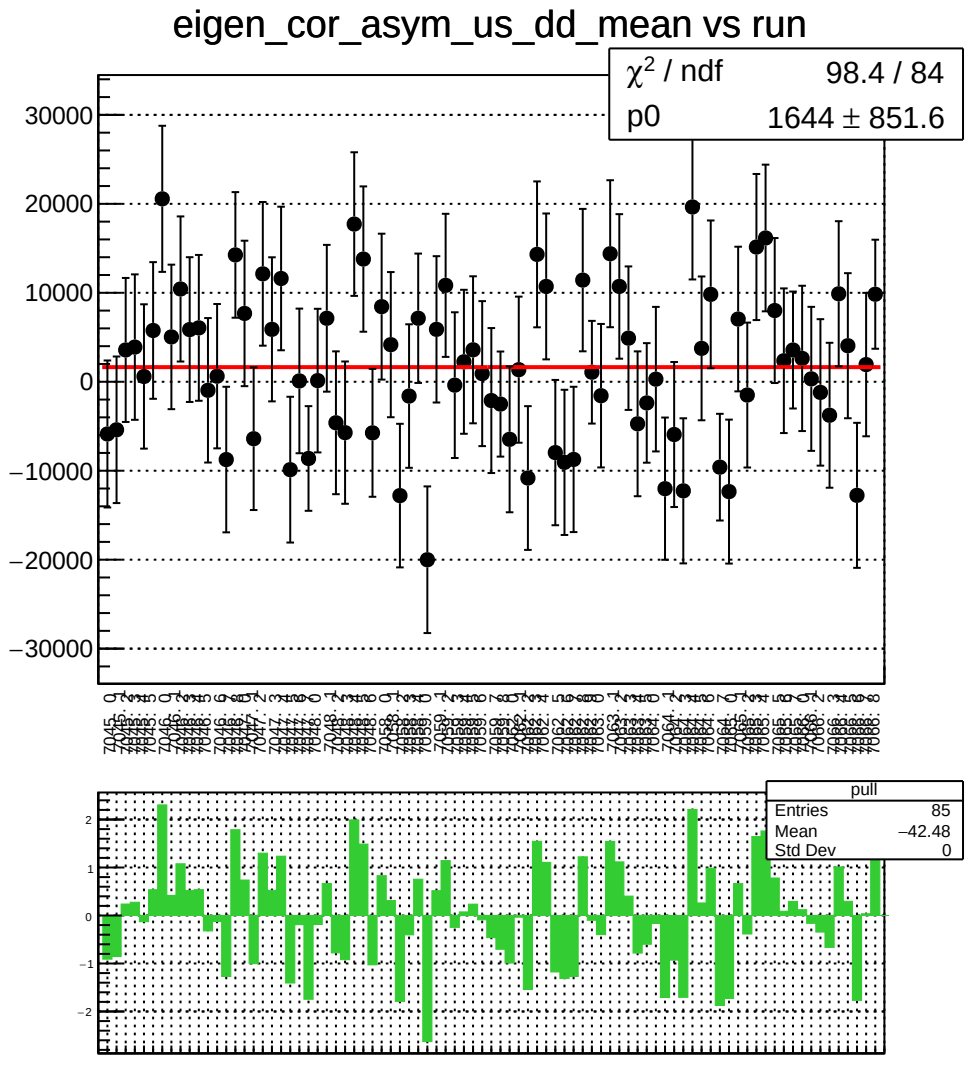

pull1D
Entries 85
Mean 0.01268
Std Dev 1.074

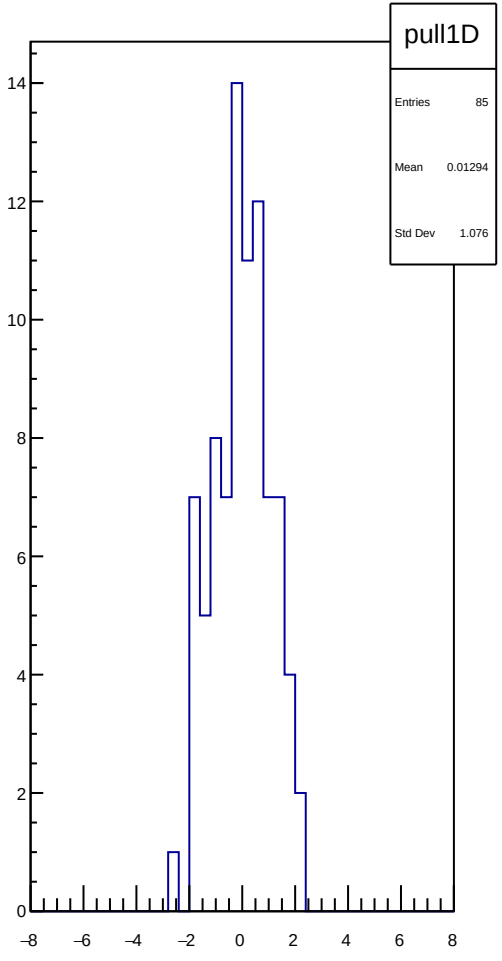

overload_cor_asym_us_dd_rms vs run
χ² / ndf 104.5 / 84
p0 772.1 ± 0.6016
795
790
785
780
775
770
765
760
755
750

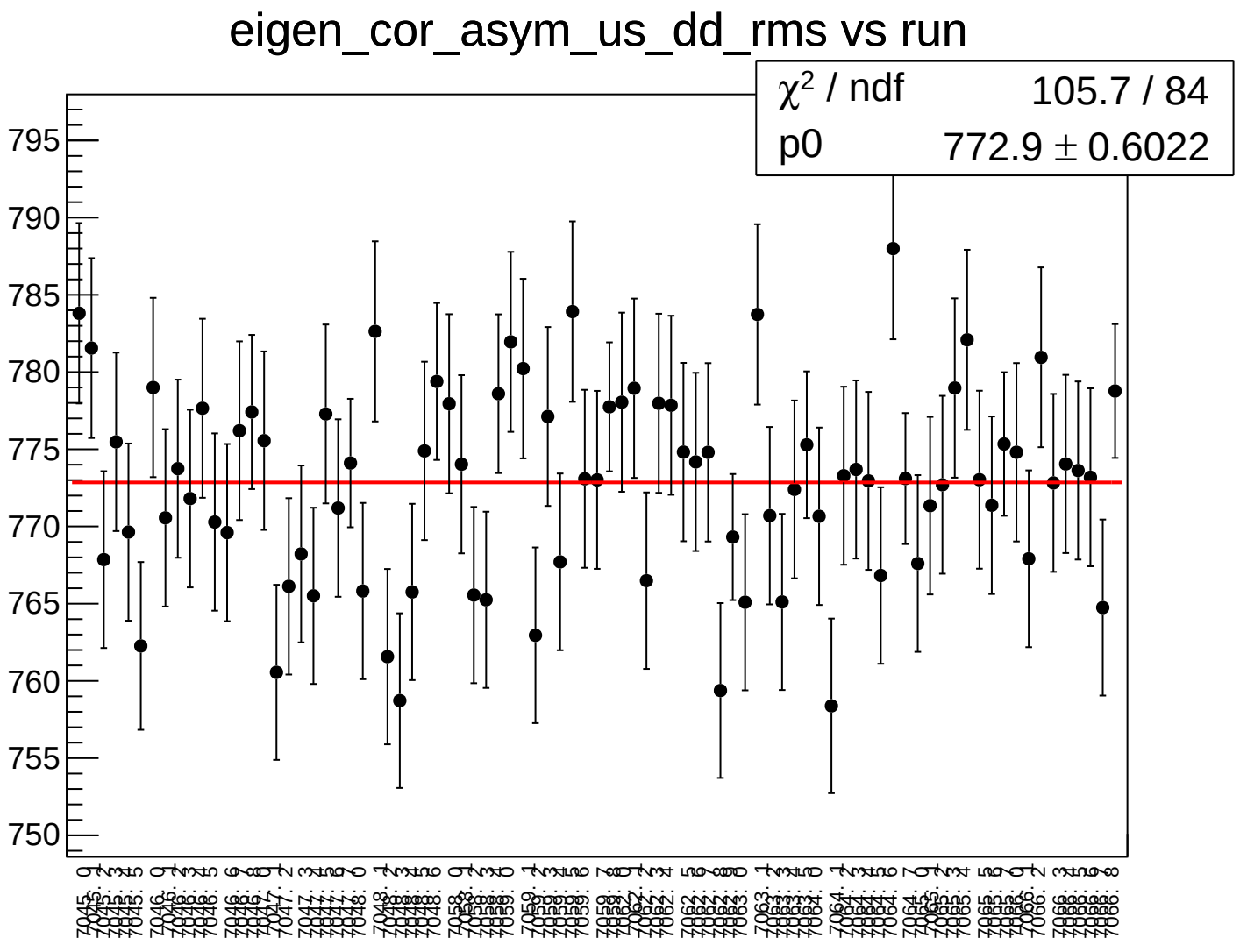

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 59.67 / 84
p0 −721.9 ± 532.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −146.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

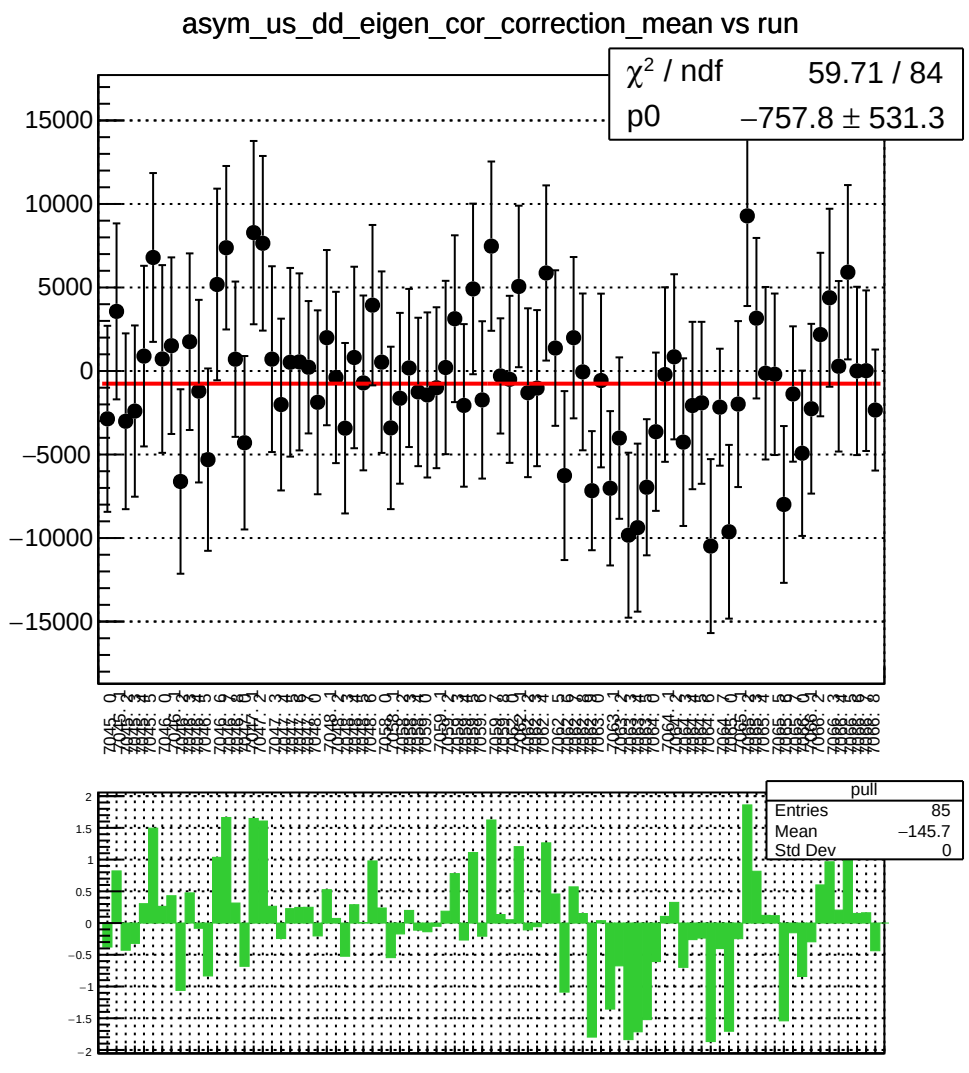

pull1D
Entries 85
Mean 0.0223
Std Dev 0.8376
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

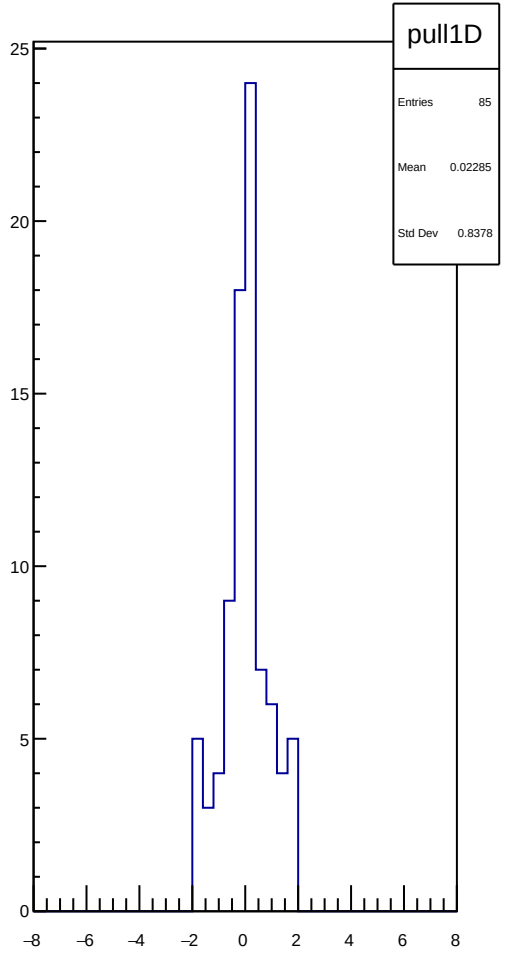

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4352 / 84
p0 482.7 ± 0.3766
560
540
520
500
480
460
440

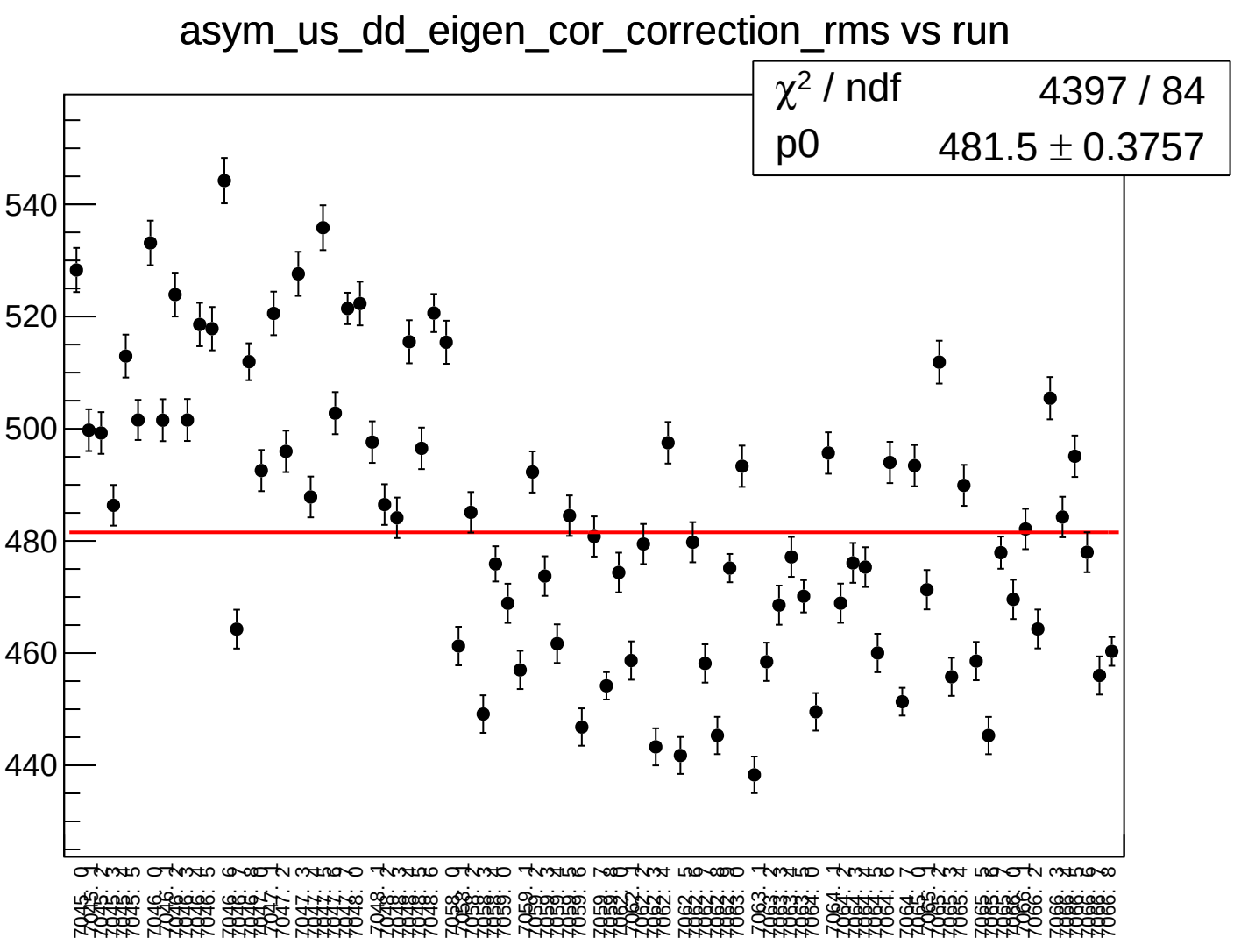

eigen_cor_asym_us_dd_mean vs run
χ^2 / ndf 98.4 / 84
p0 1644 ± 851.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −42.48
Std Dev 0
2
1
0
−1
−2

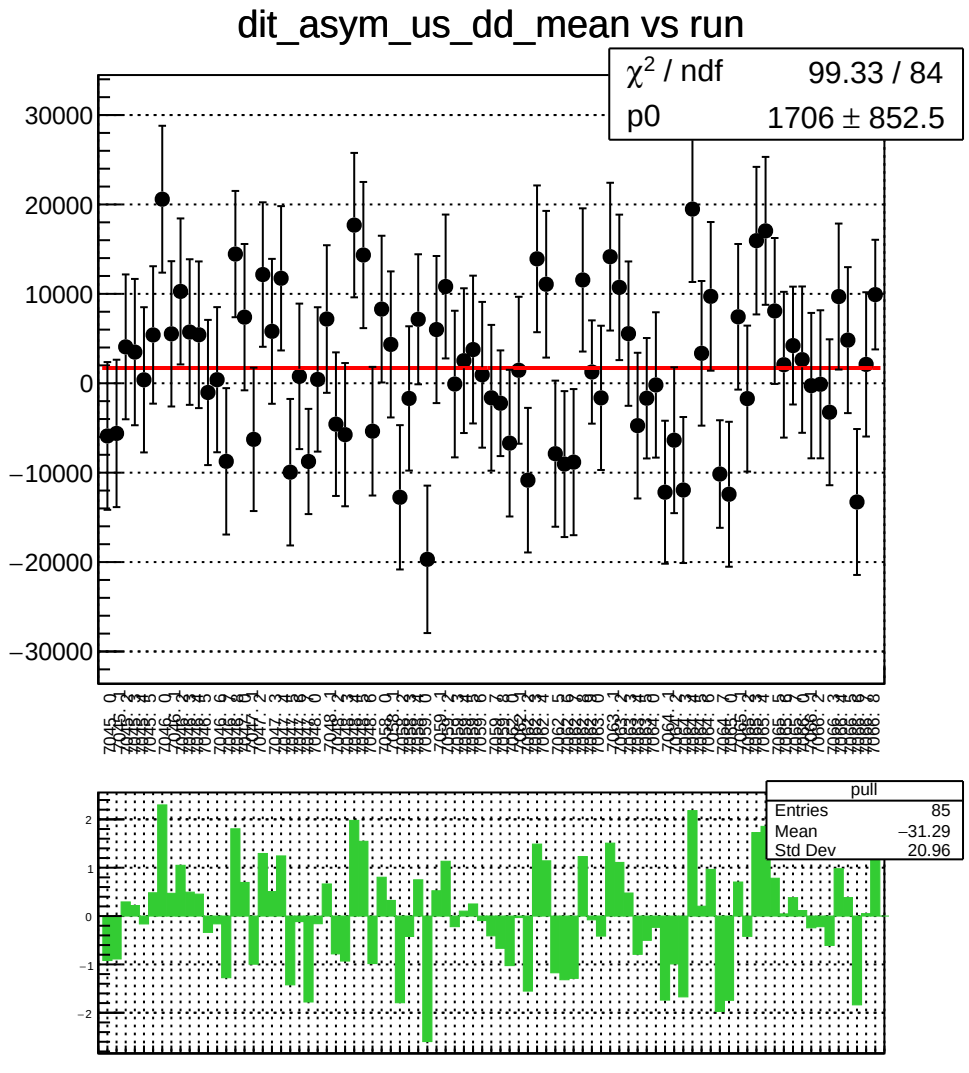

pull1D
Entries 85
Mean 0.01294
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

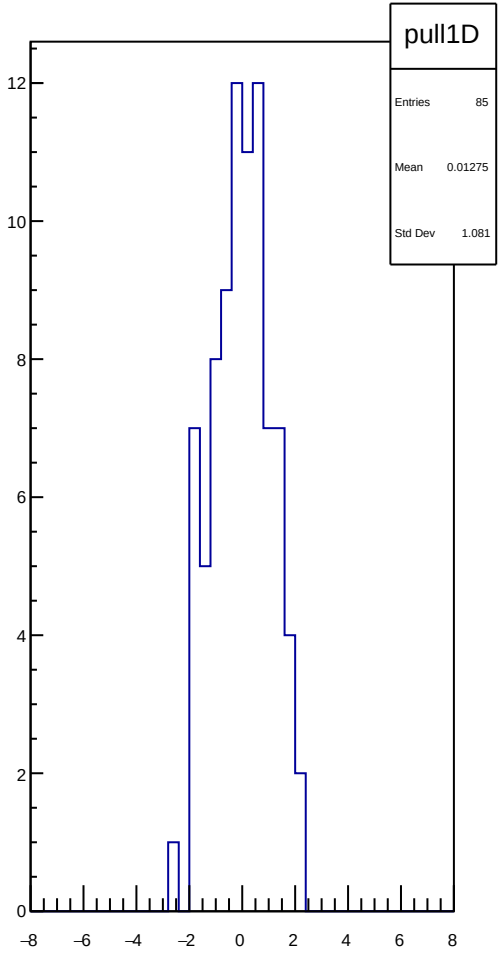

eigen_cor_asym_us_dd_rms vs run
χ^2 / ndf 105.7 / 84
p0 772.9 ± 0.6022
795
790
785
780
775
770
765
760
755
750

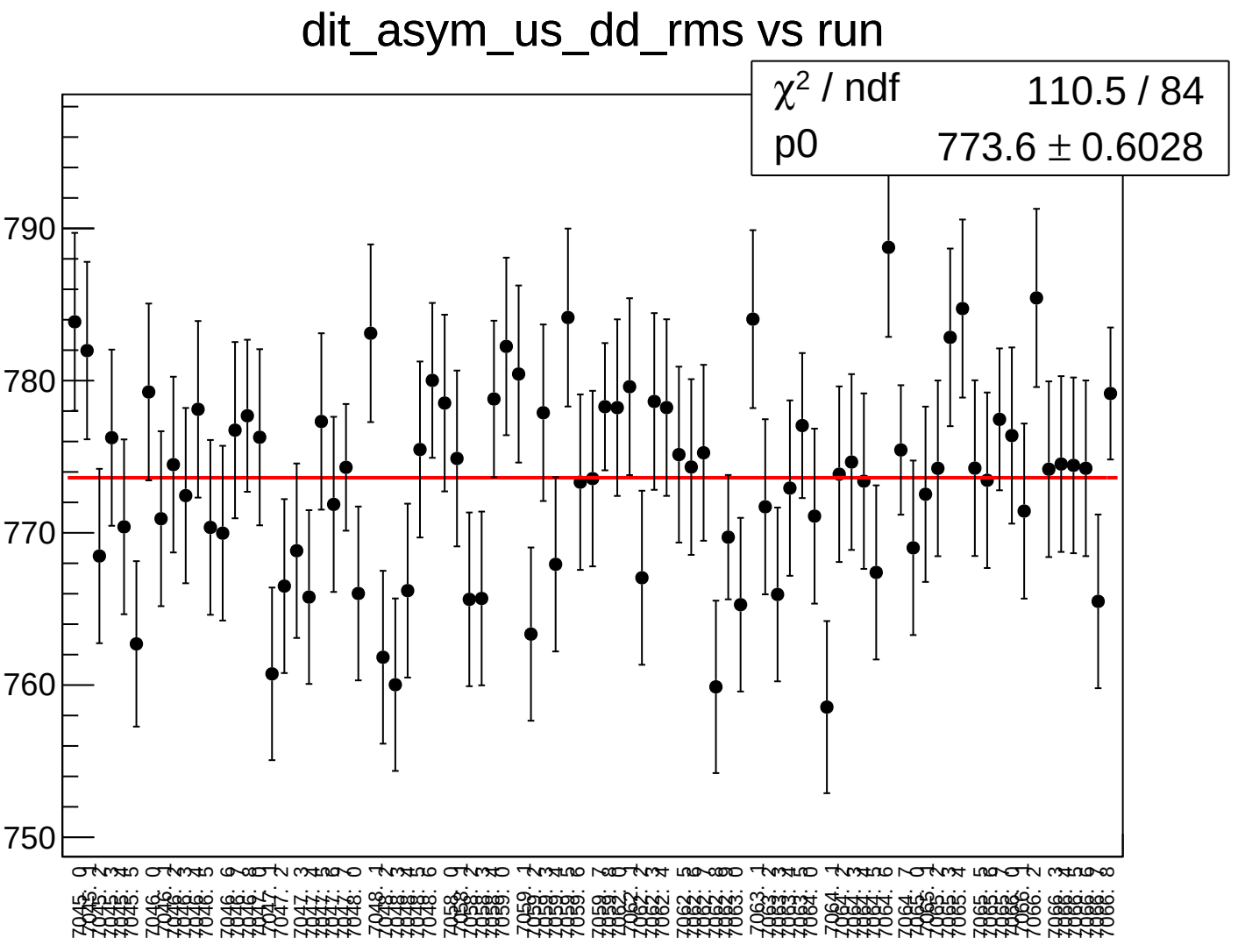

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 59.71 / 84
p0 −757.8 ± 531.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −145.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

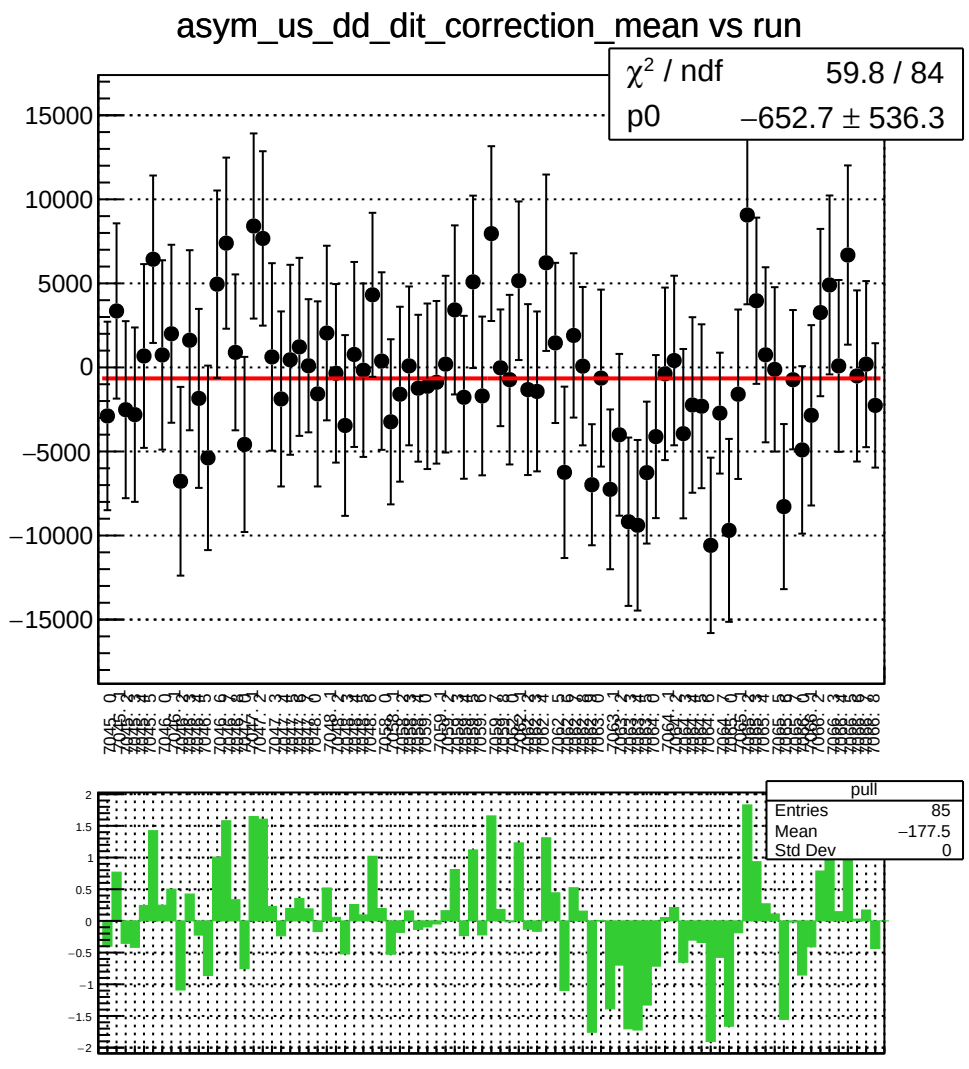

pull1D
Entries 85
Mean 0.02285
Std Dev 0.8378
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

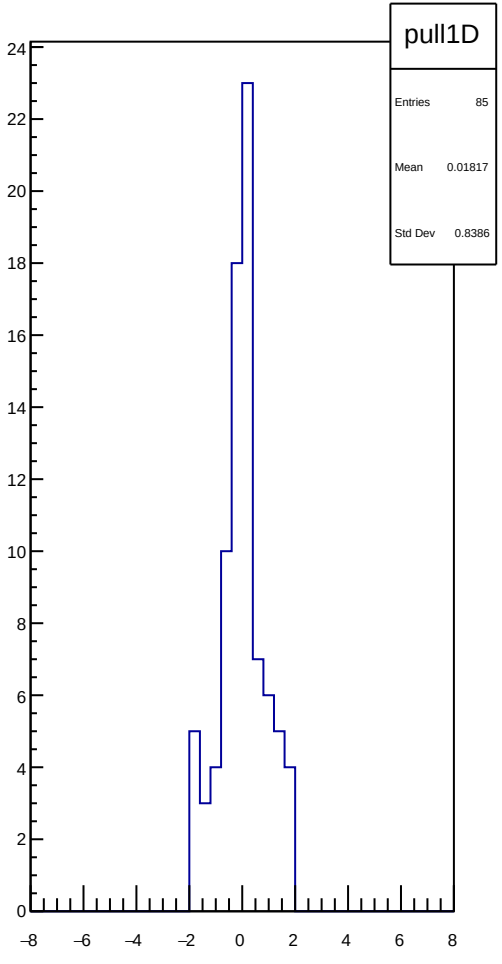

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4397 / 84
p0 481.5 ± 0.3757
540
520
500
480
460
440

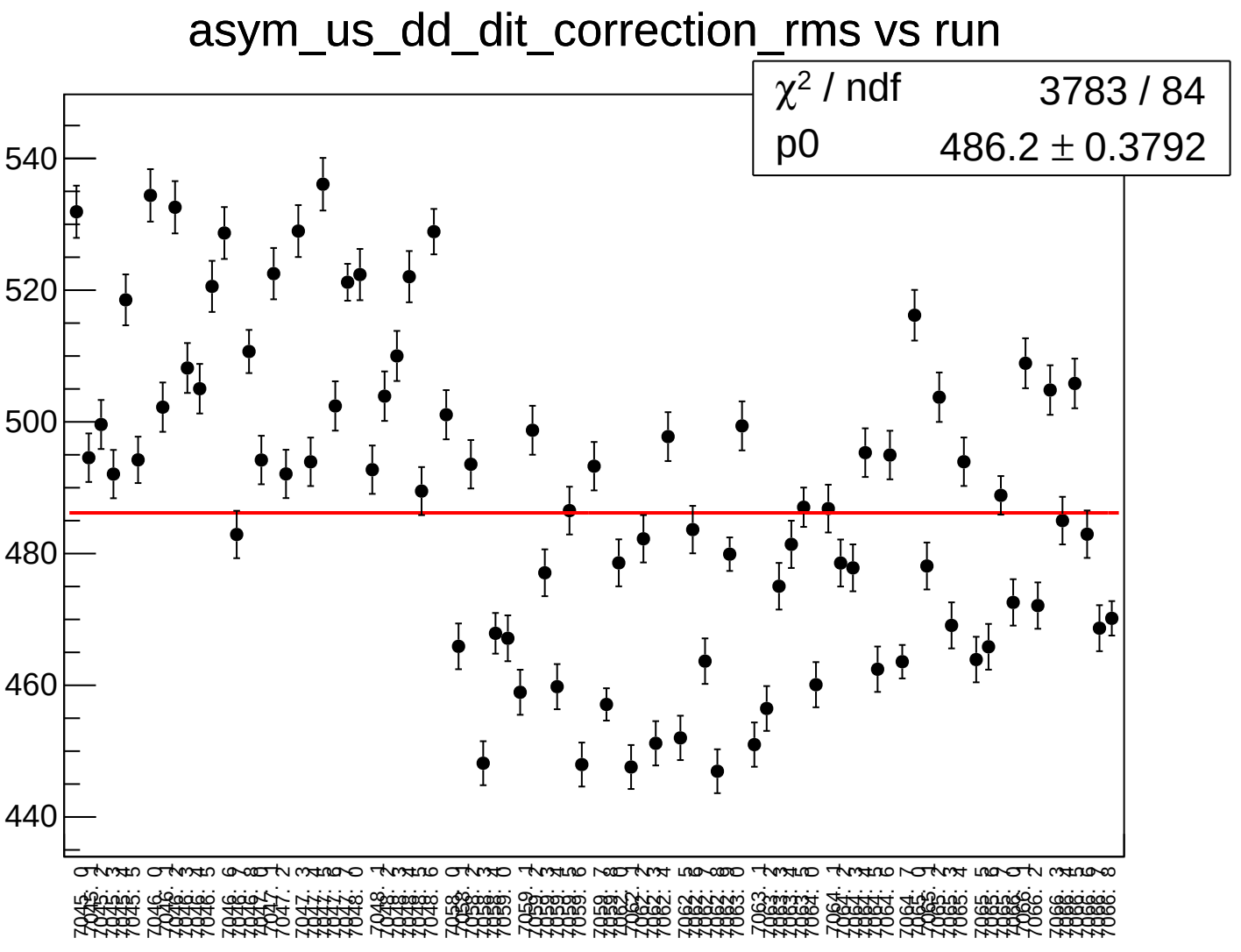

dit_asym_us_dd_mean vs run
χ² / ndf 99.33 / 84
p0 1706 ± 852.5
pull
Entries 85
Mean −31.29
Std Dev 20.96

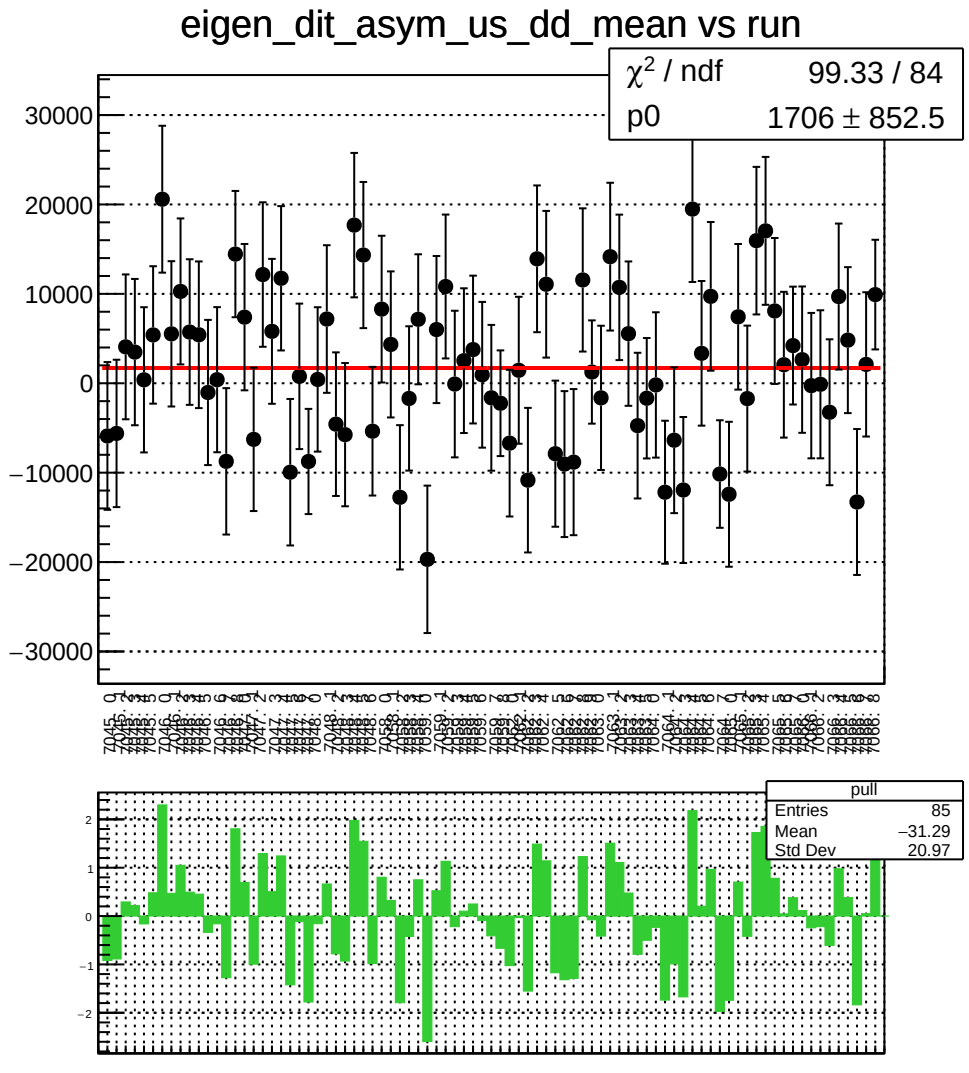

pull1D
Entries 85
Mean 0.01275
Std Dev 1.081

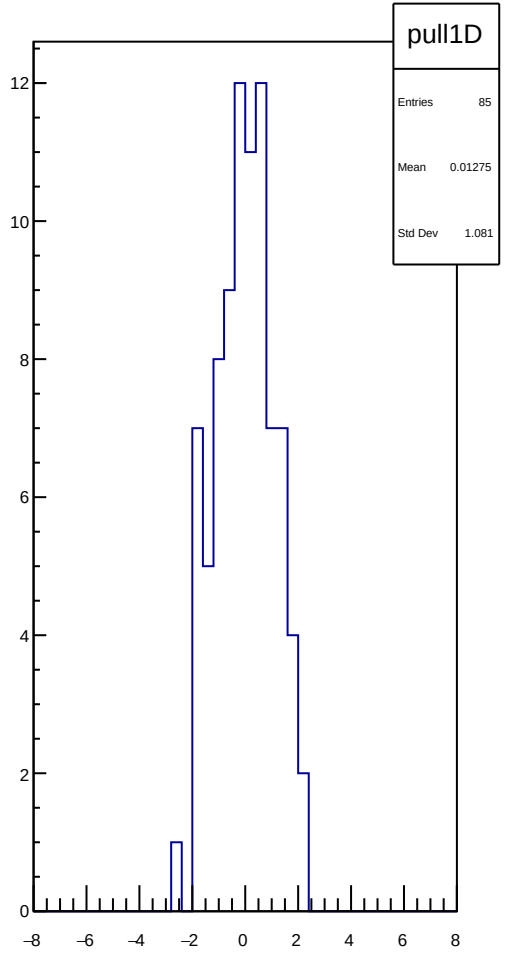

dit_asym_us_dd_rms vs run
χ² / ndf 110.5 / 84
p0 773.6 ± 0.6028
790
780
770
760
750

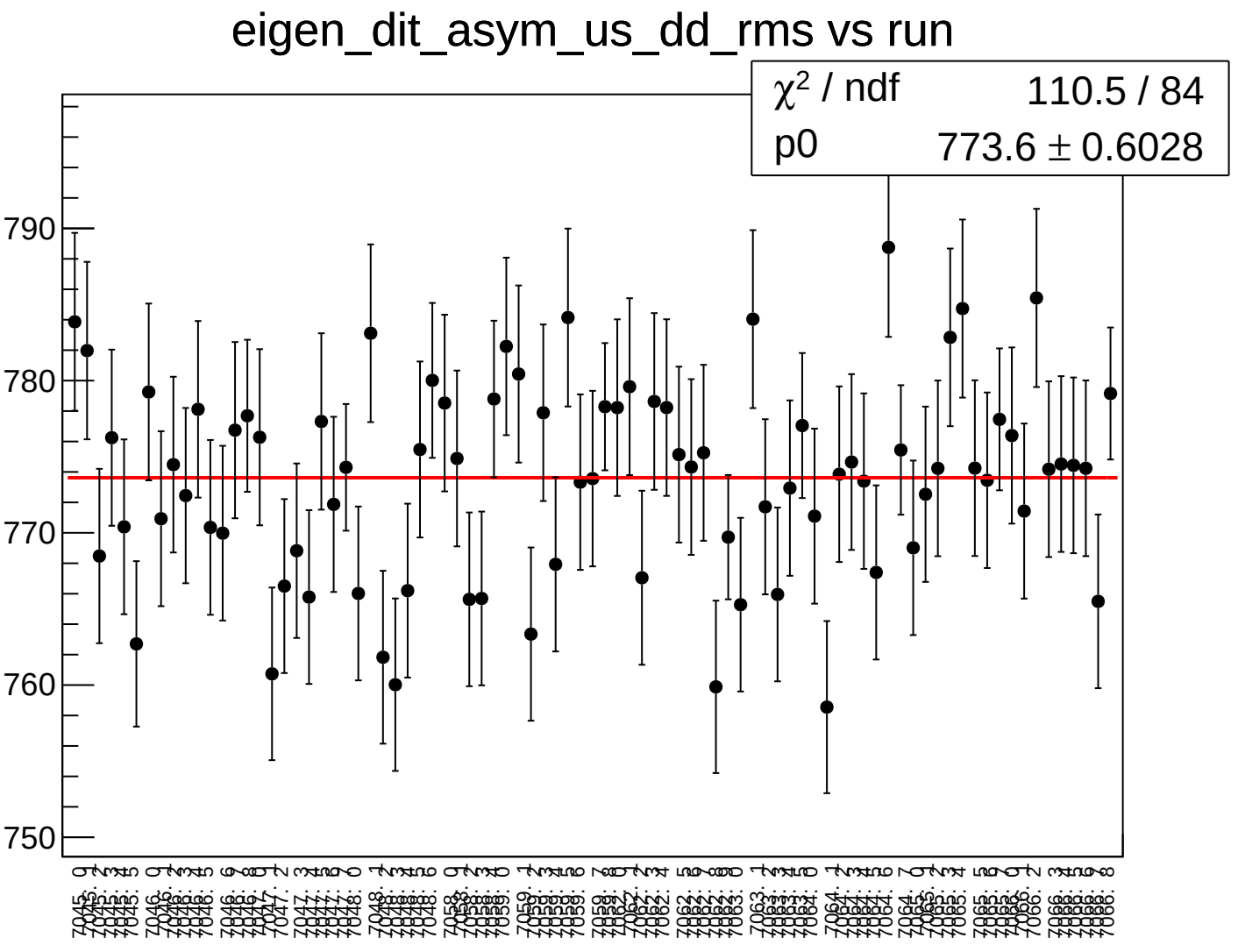

asym_us_dd_dit_correction_mean vs run
χ² / ndf 59.8 / 84
p0 −652.7 ± 536.3
pull
Entries 85
Mean −177.5
Std Dev 0

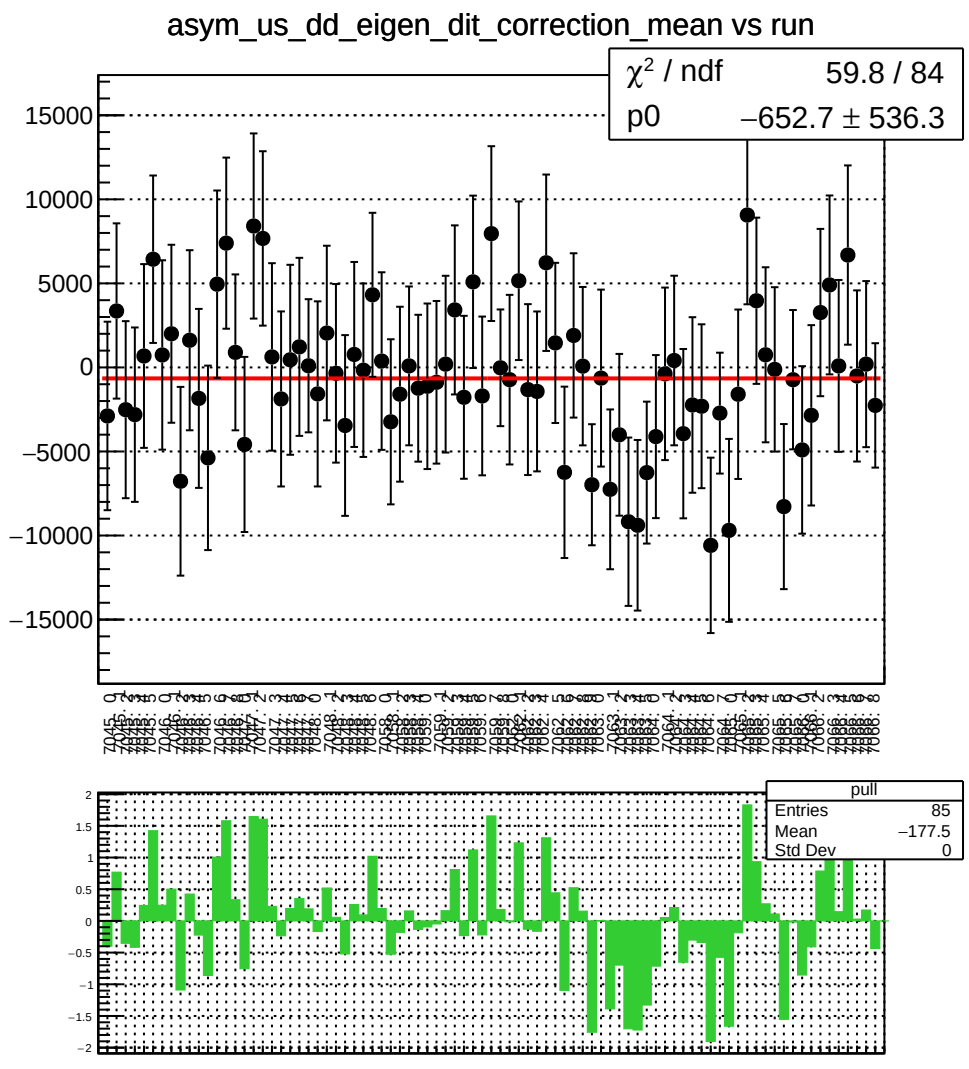

pull1D
Entries 85
Mean 0.01817
Std Dev 0.8386

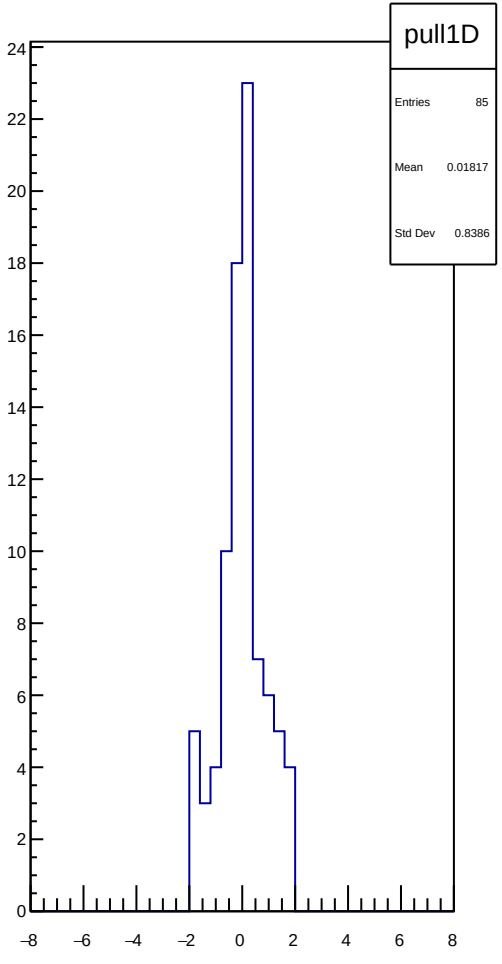

asym_us_dd_dit_correction_rms vs run
χ^2 / ndf 3783 / 84
p0 486.2 ± 0.3792
540
520
500
480
460
440

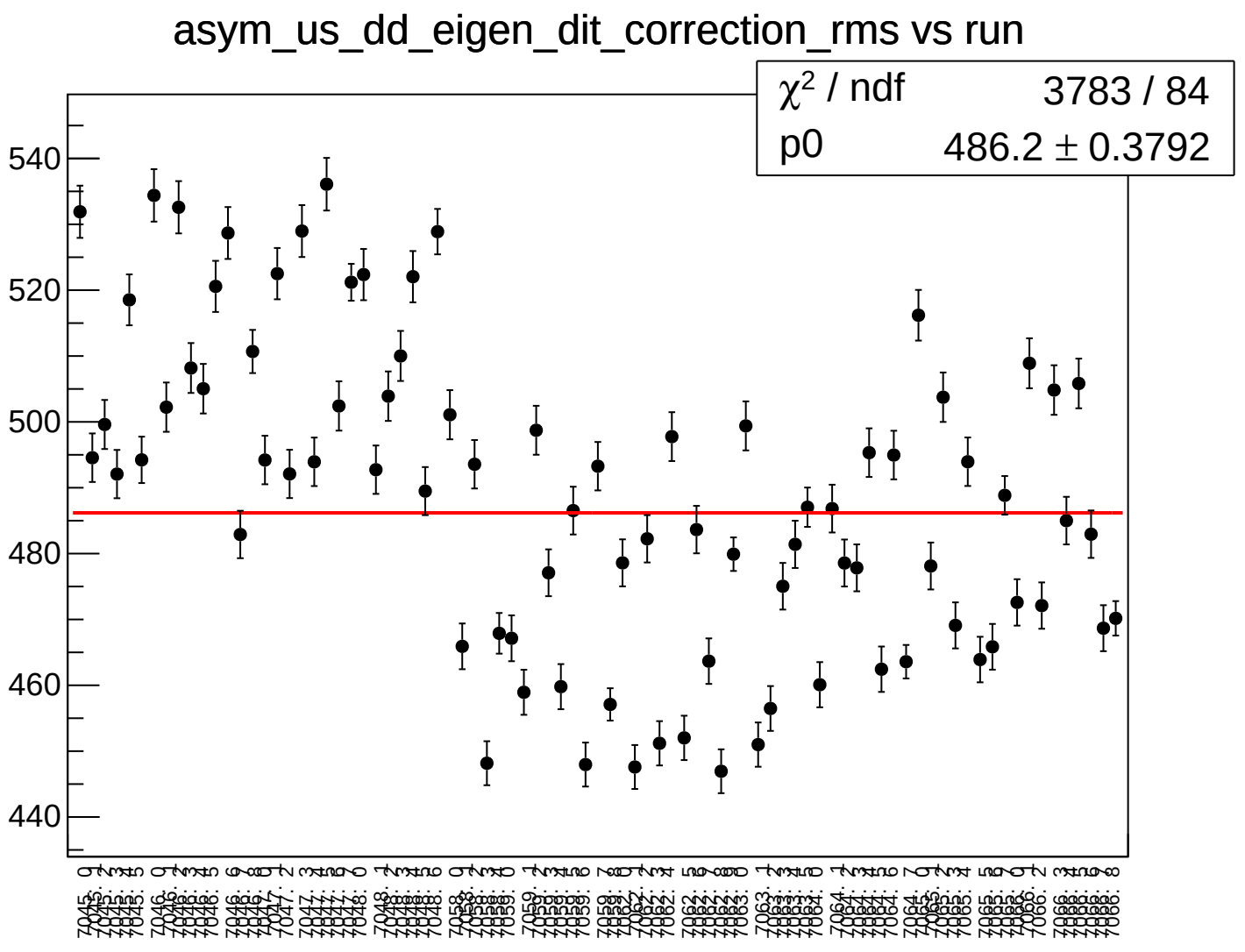

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 99.33 / 84
p0 1706 ± 852.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −31.29
Std Dev 20.97
2
1
0
−1
−2

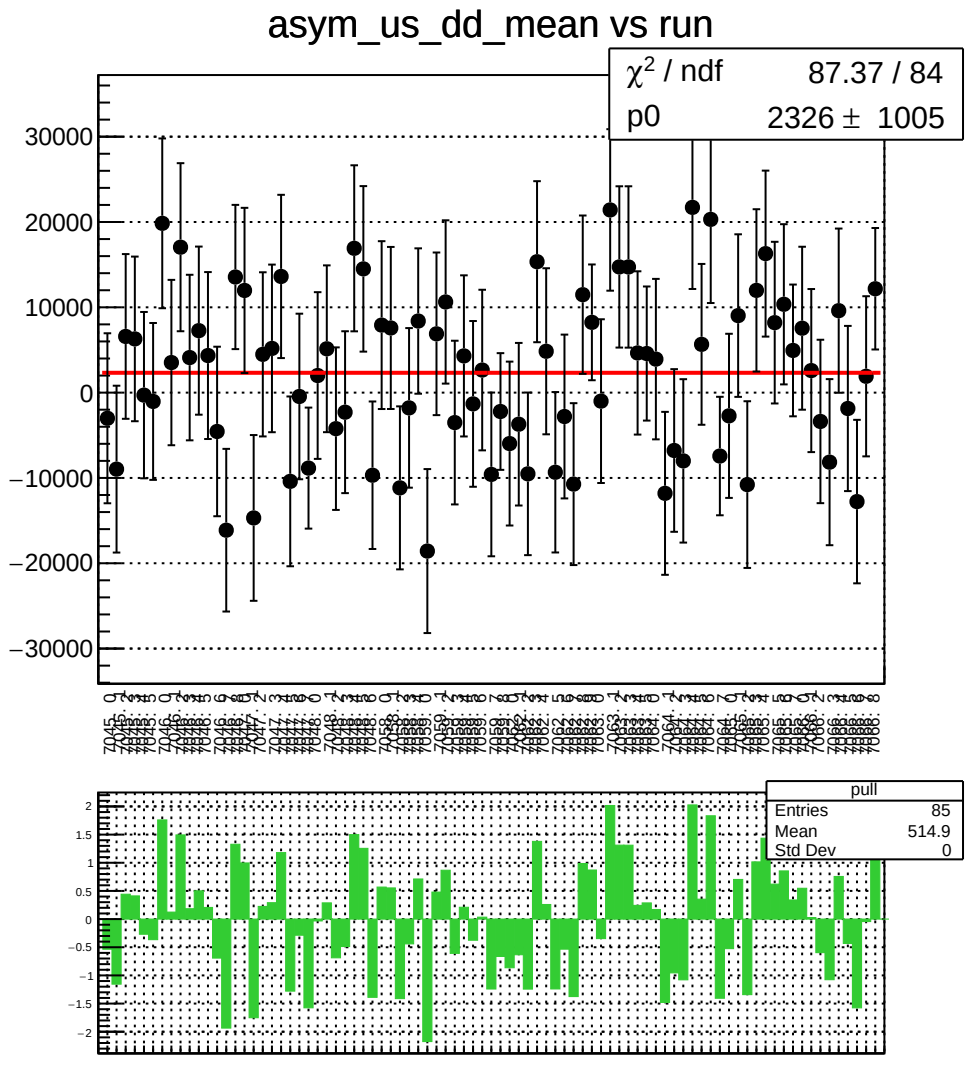

pull1D
Entries 85
Mean 0.01275
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

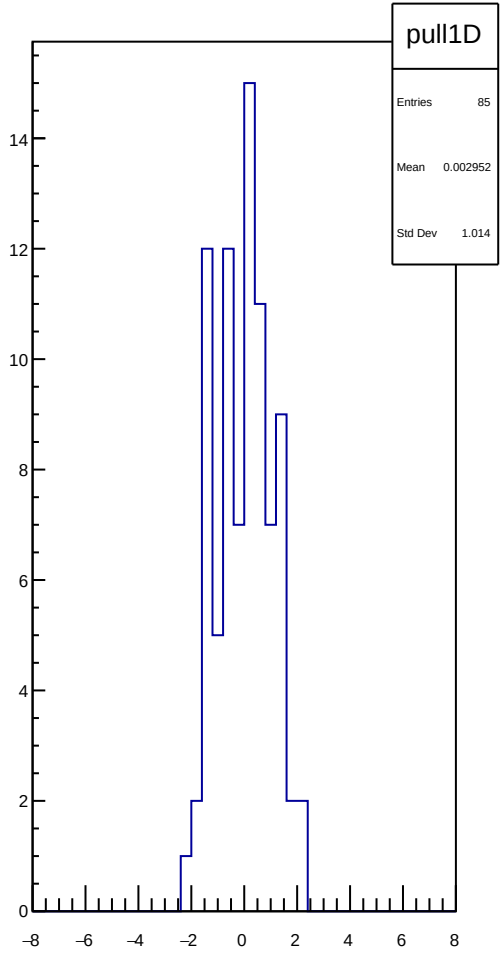

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 110.5 / 84
p0 773.6 ± 0.6028
790
780
770
760
750

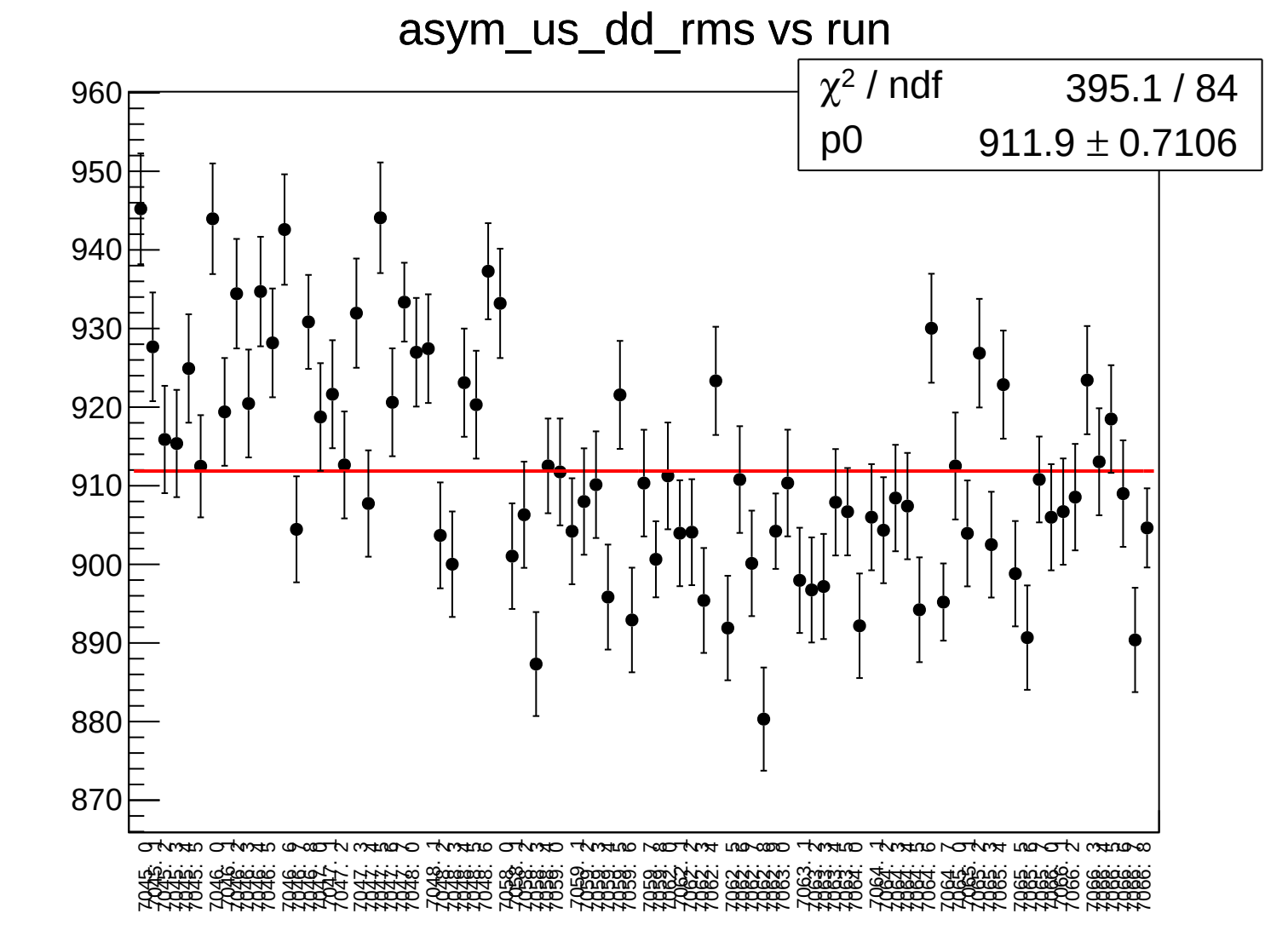

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 59.8 / 84
p0 −652.7 ± 536.3
pull
Entries 85
Mean −177.5
Std Dev 0

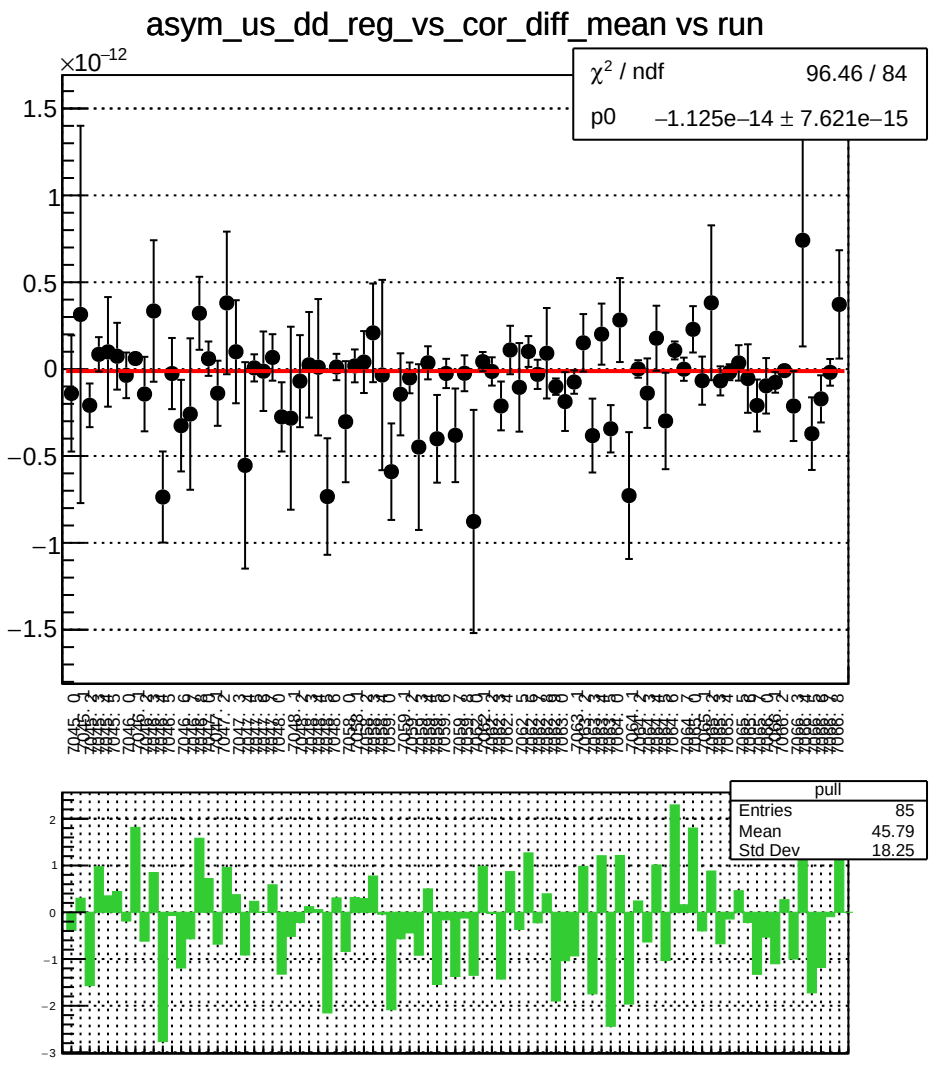

pull1D
Entries 85
Mean 0.01817
Std Dev 0.8386

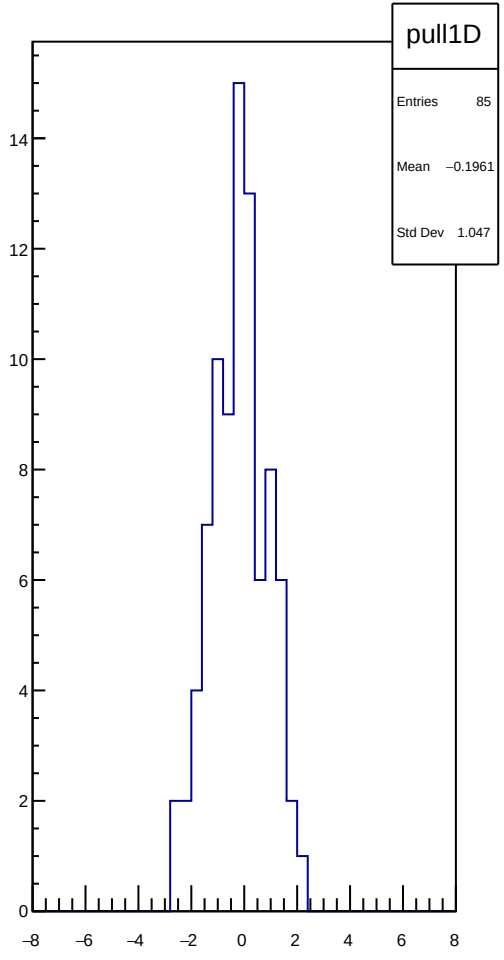

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3783 / 84
p0 486.2 ± 0.3792
540
520
500
480
460
440

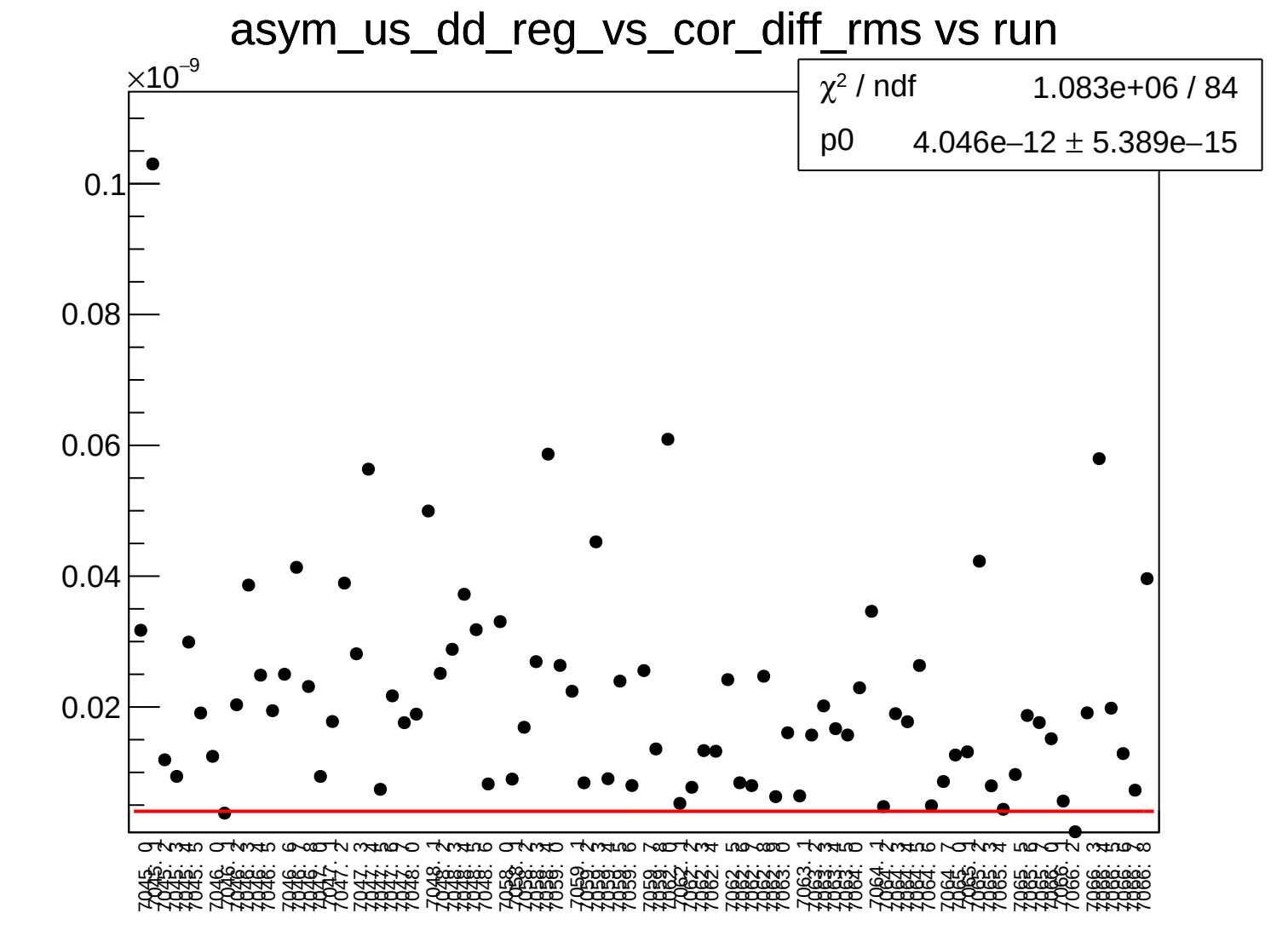

asym_us_dd_mean vs run
χ^2 / ndf 87.37 / 84
p0 2326 ± 1005
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 514.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

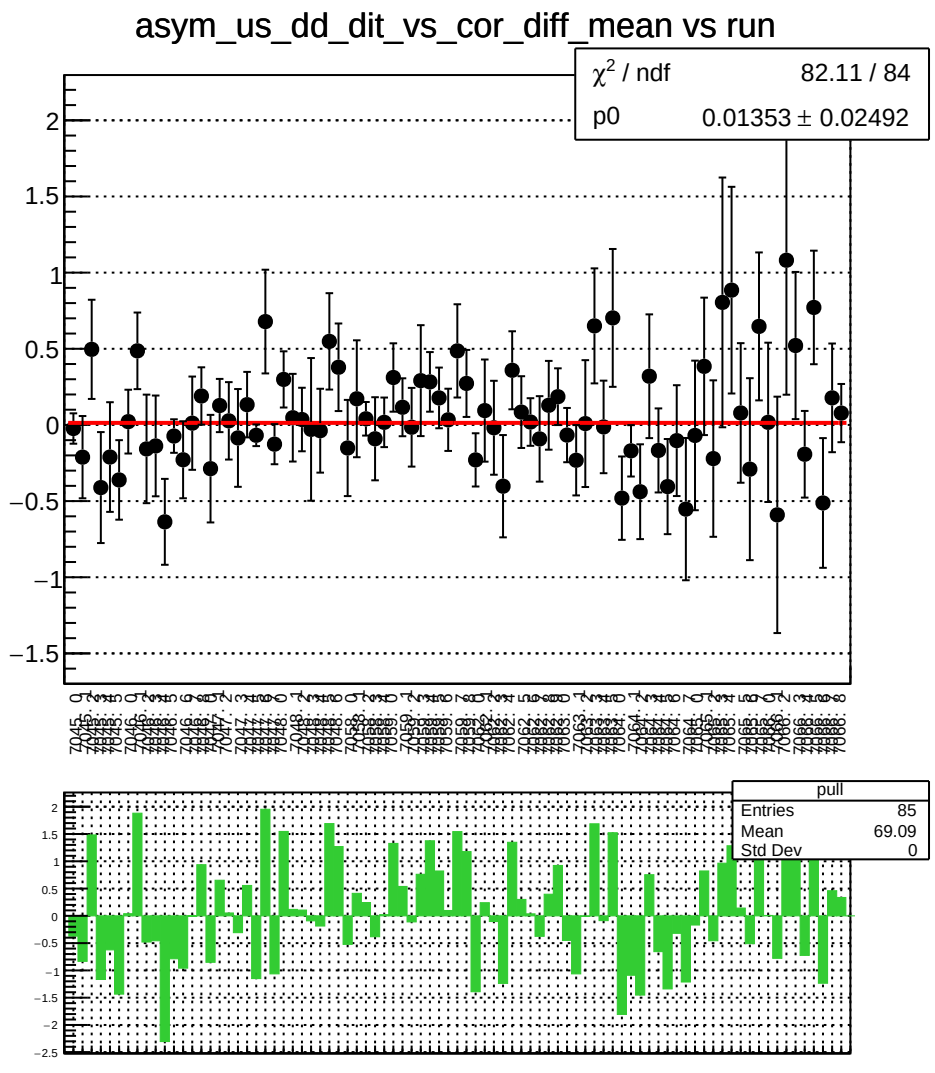

pull1D
Entries 85
Mean 0.002952
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

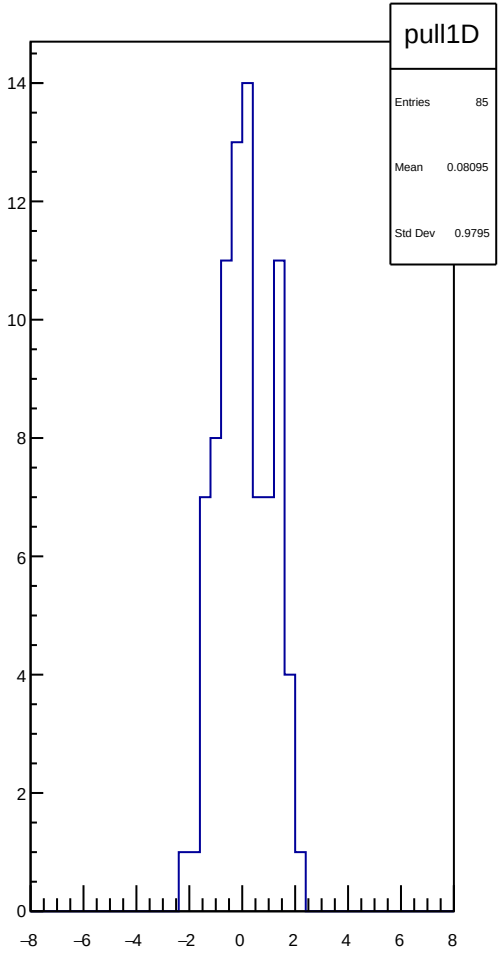

asym_us_dd_rms vs run
χ² / ndf 395.1 / 84
p0 911.9 ± 0.7106
960
950
940
930
920
910
900
890
880
870

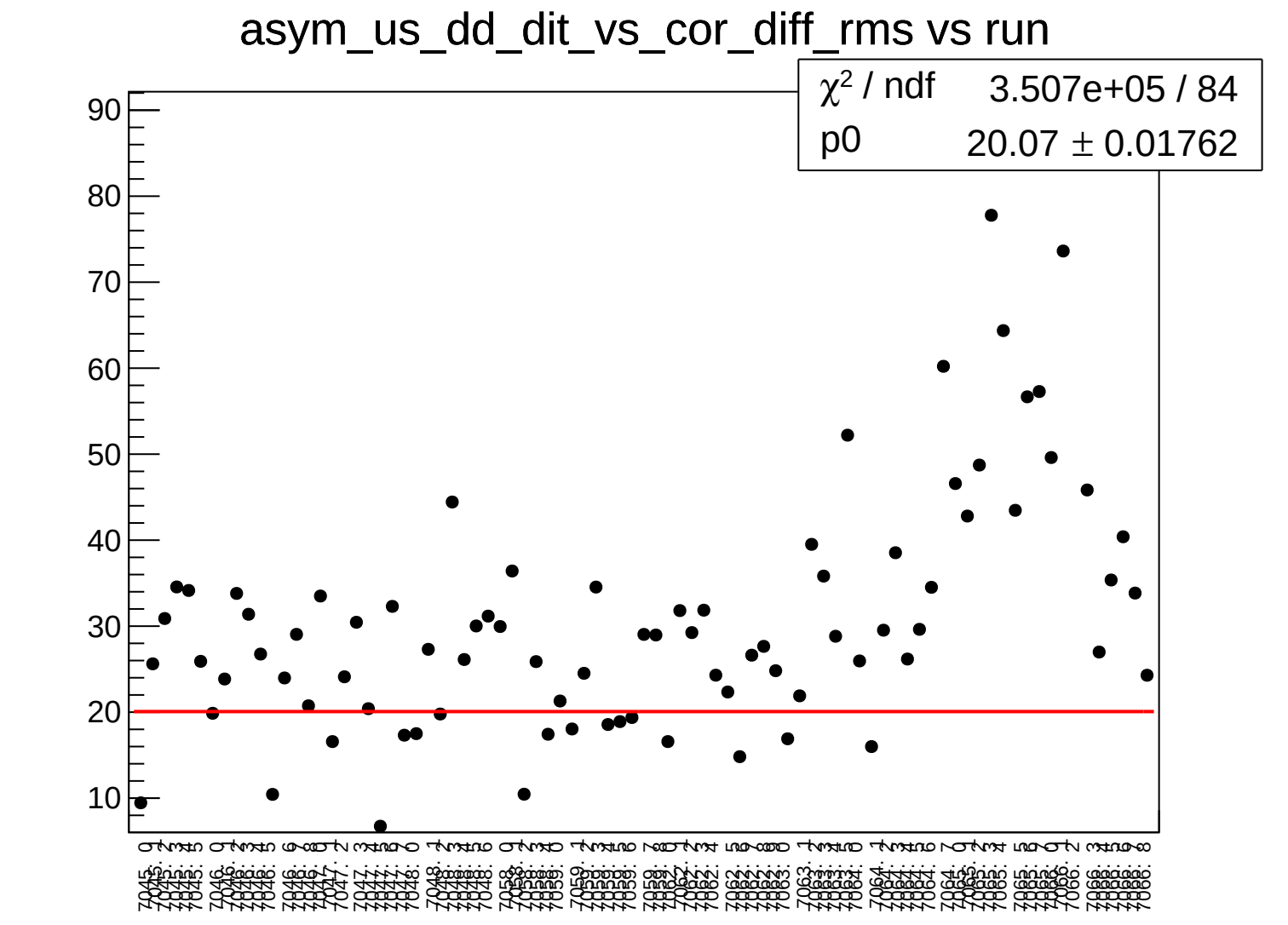

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.46 / 84
p0 −1.125e−14 ± 7.621e−15
pull
Entries 85
Mean 45.79
Std Dev 18.25

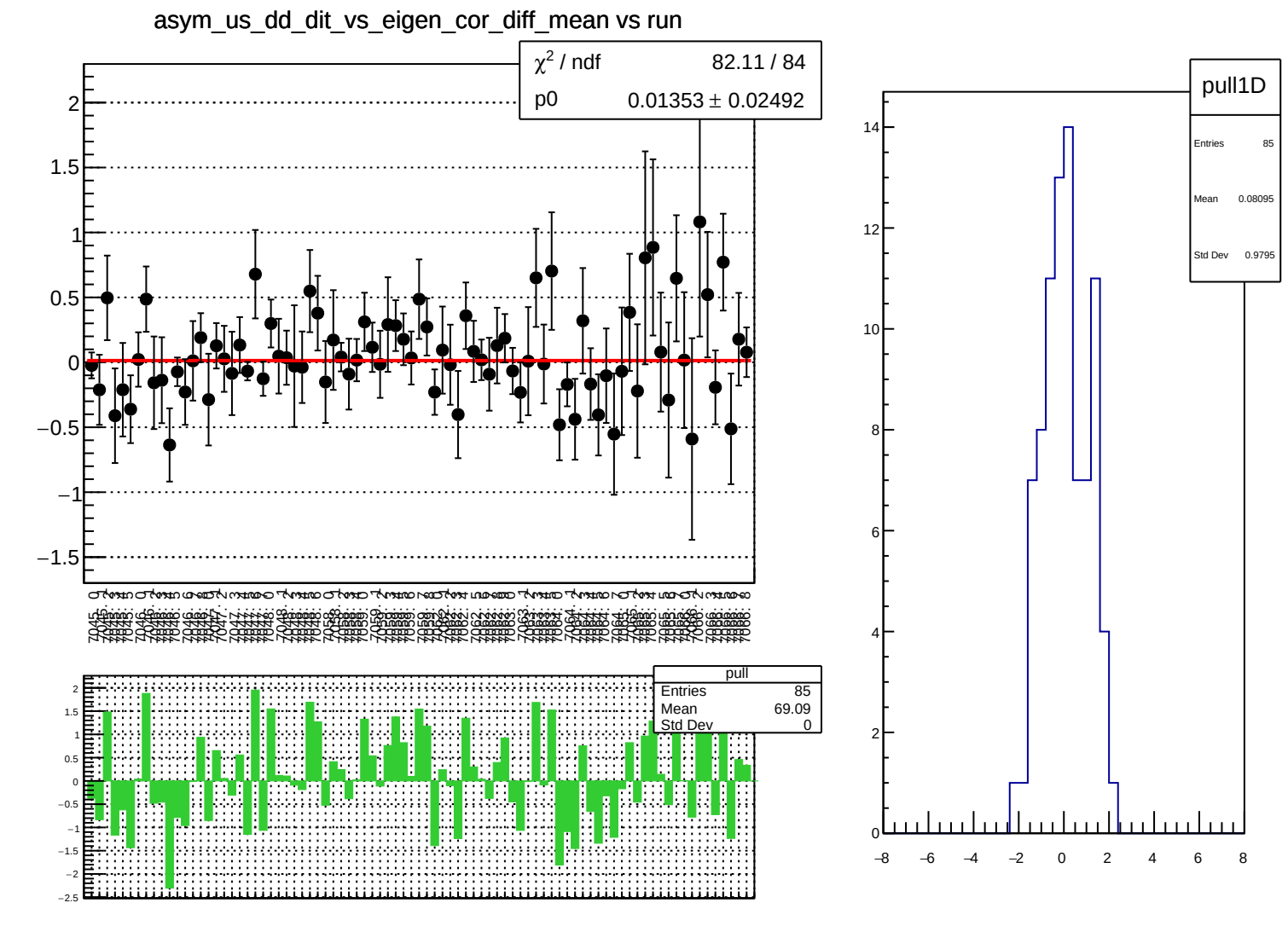

pull1D
Entries 85
Mean −0.1961
Std Dev 1.047

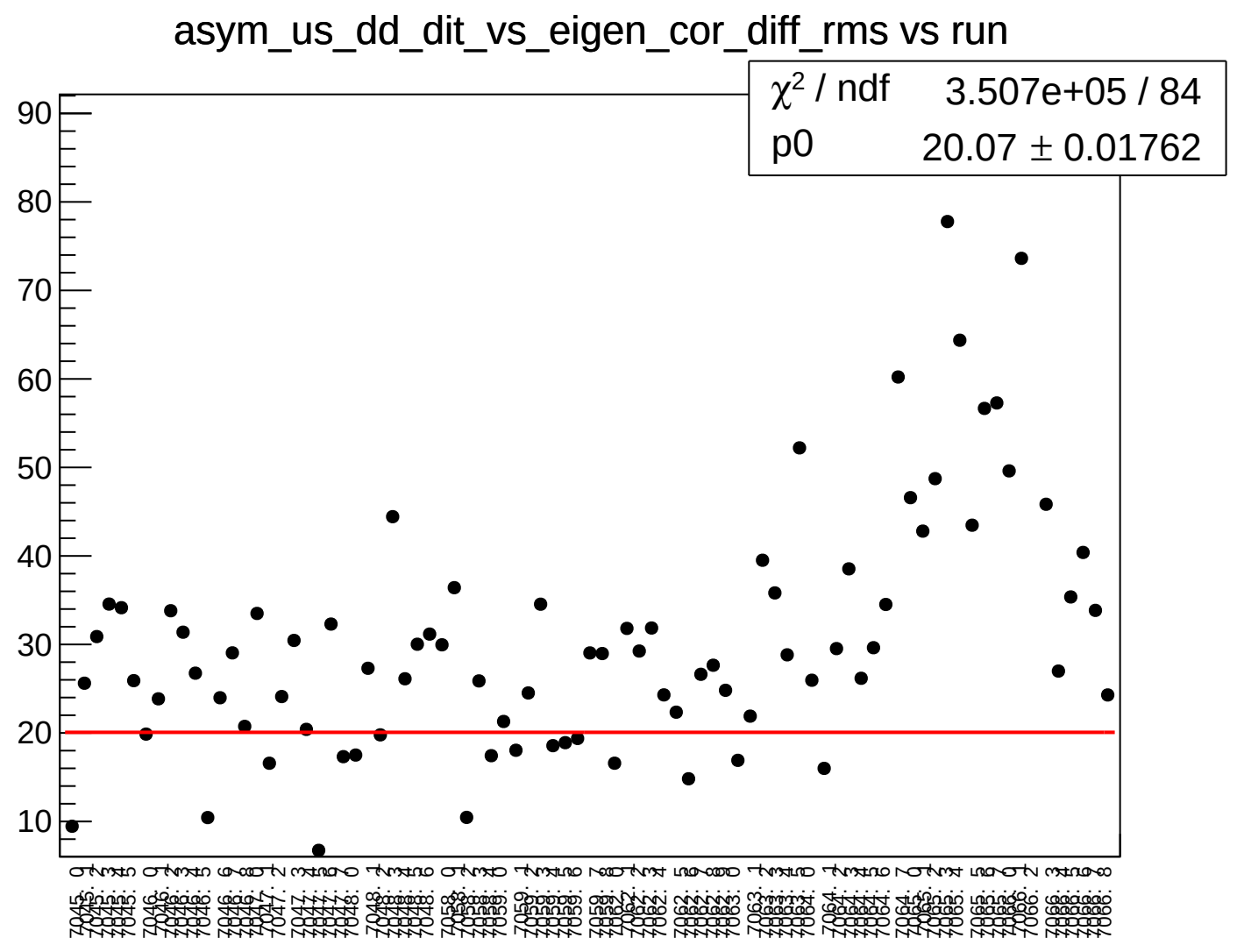

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.083e+06 / 84
p0 4.046e−12 ± 5.389e−15
0.1
0.08
0.06
0.04
0.02

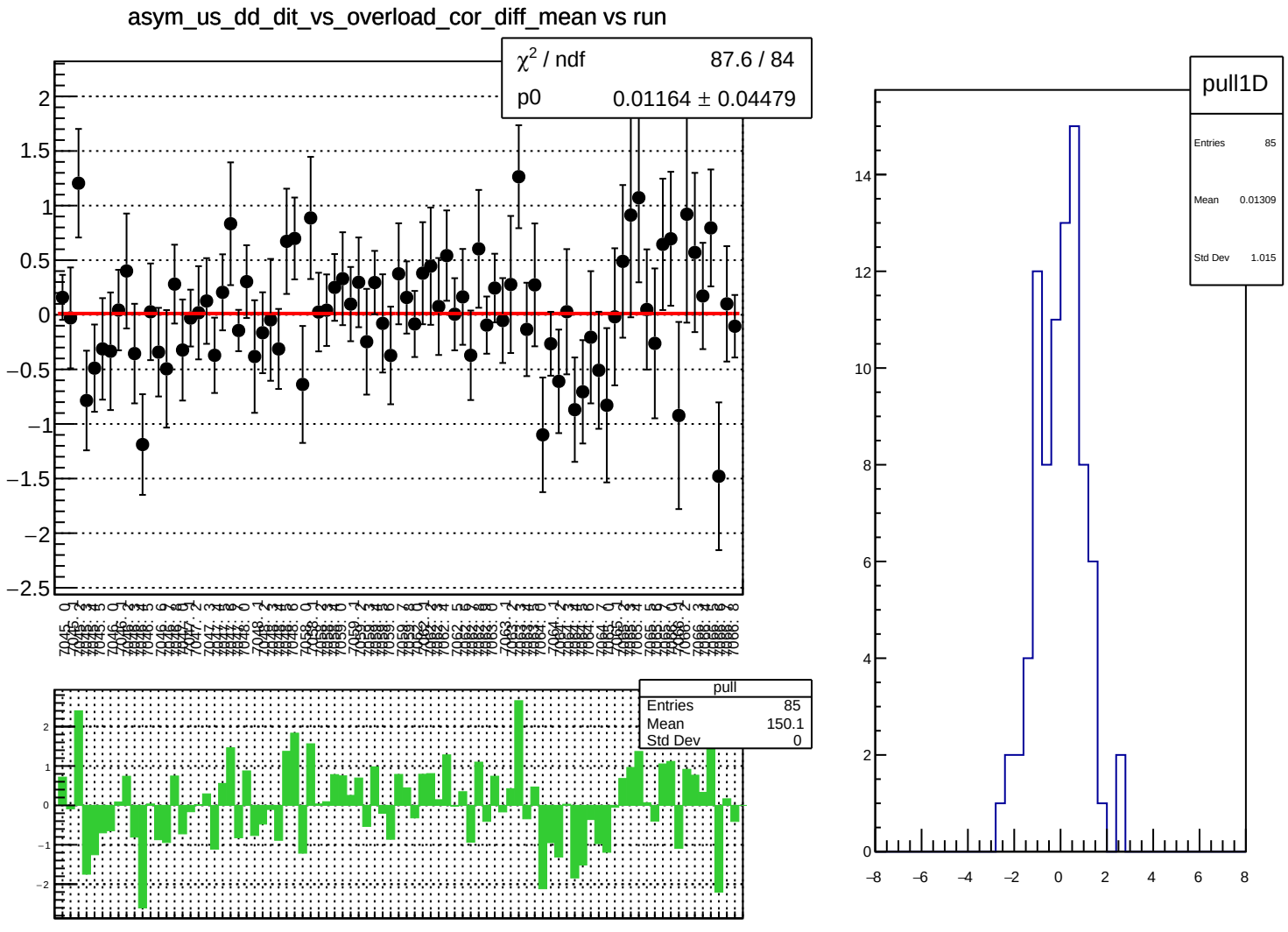

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 84
p0 0.01353 ± 0.02492
pull
Entries 85
Mean 69.09
Std Dev 0

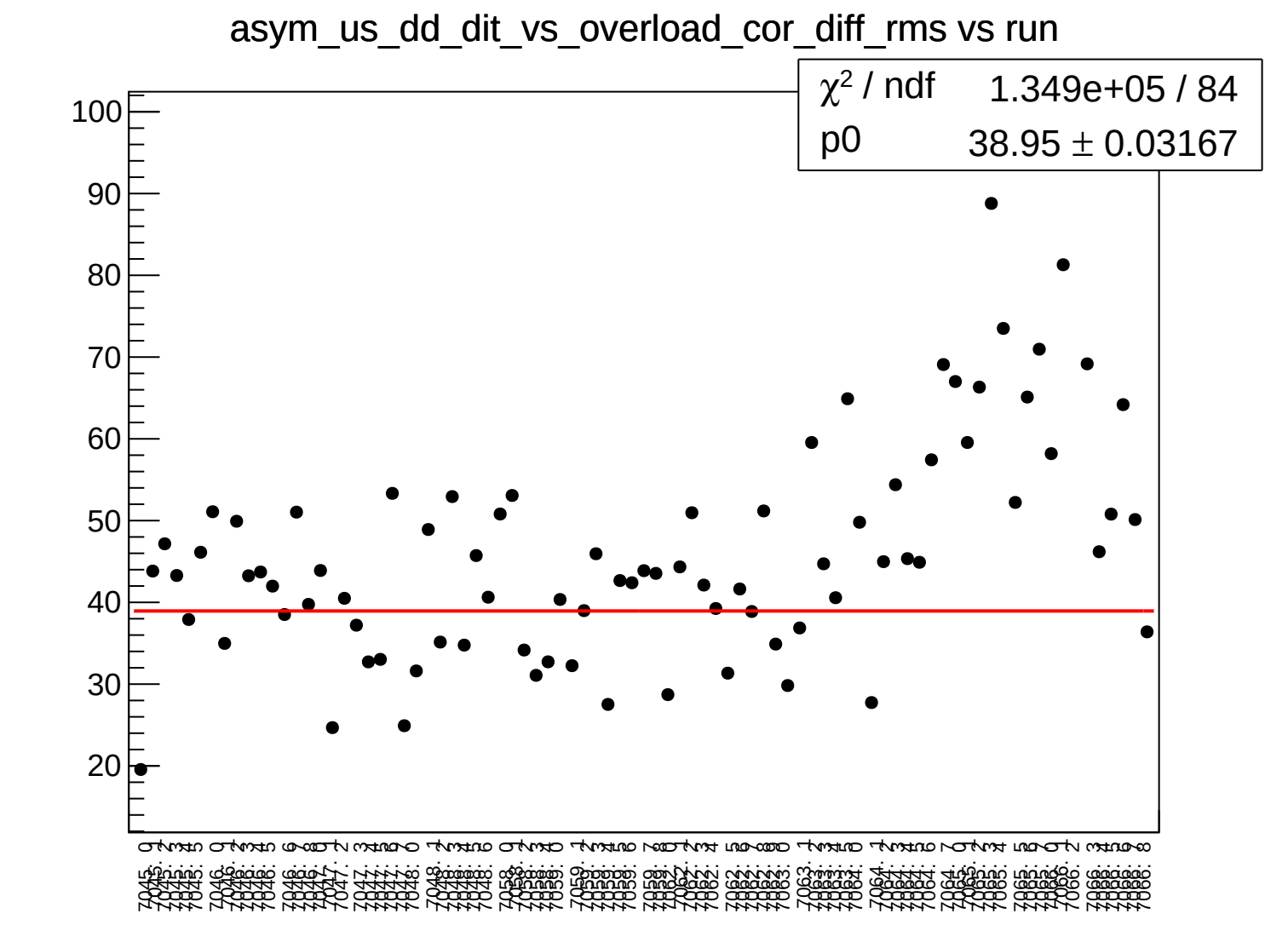

pull1D
Entries 85
Mean 0.08095
Std Dev 0.9795

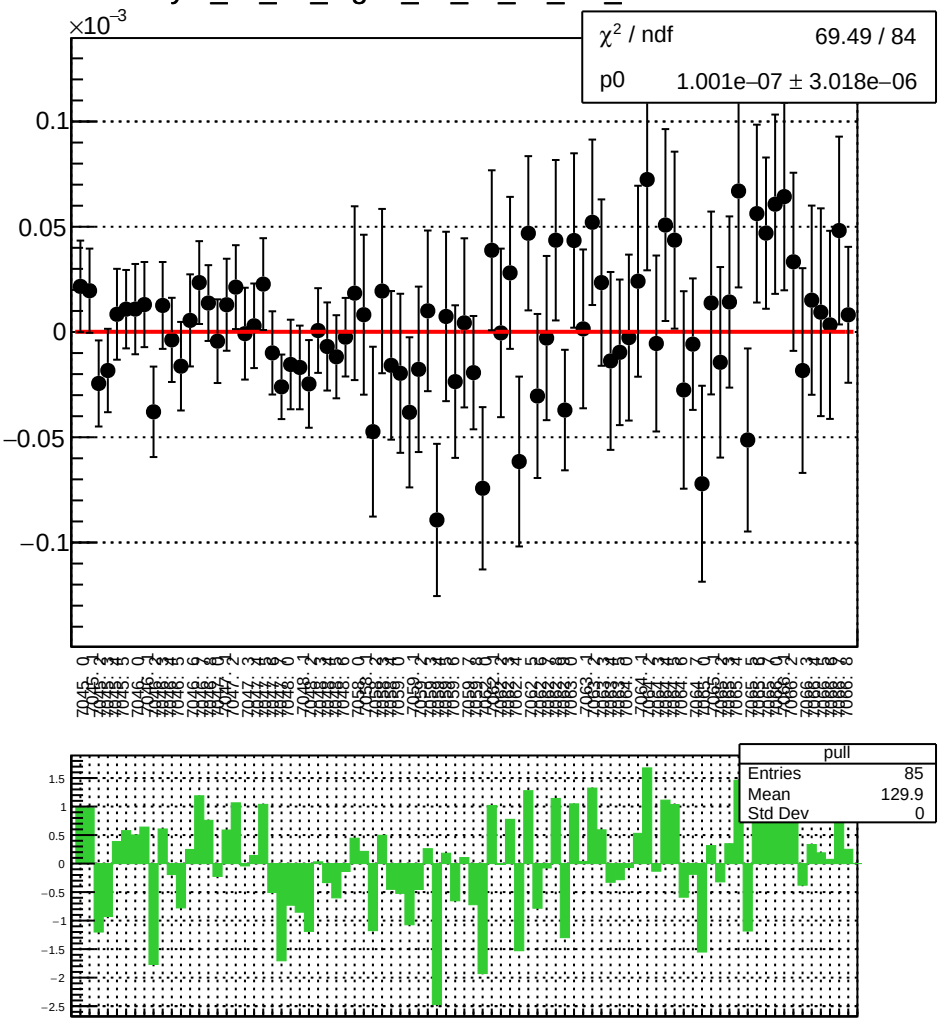

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.507e+05 / 84
p0 20.07 ± 0.01762
90
80
70
60
50
40
30
20
10

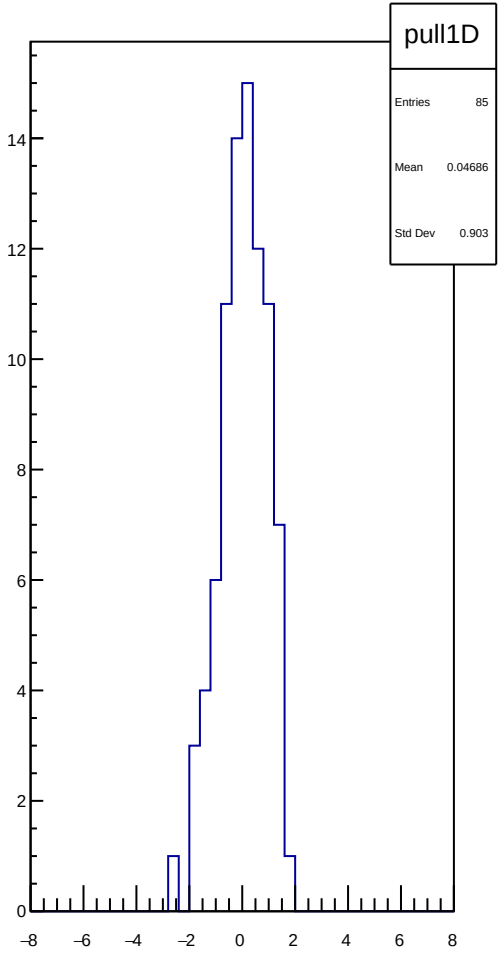

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.11 / 84
p0 0.01353 ± 0.02492
pull
Entries 85
Mean 69.09
Std Dev 0
pull1D
Entries 85
Mean 0.08095
Std Dev 0.9795

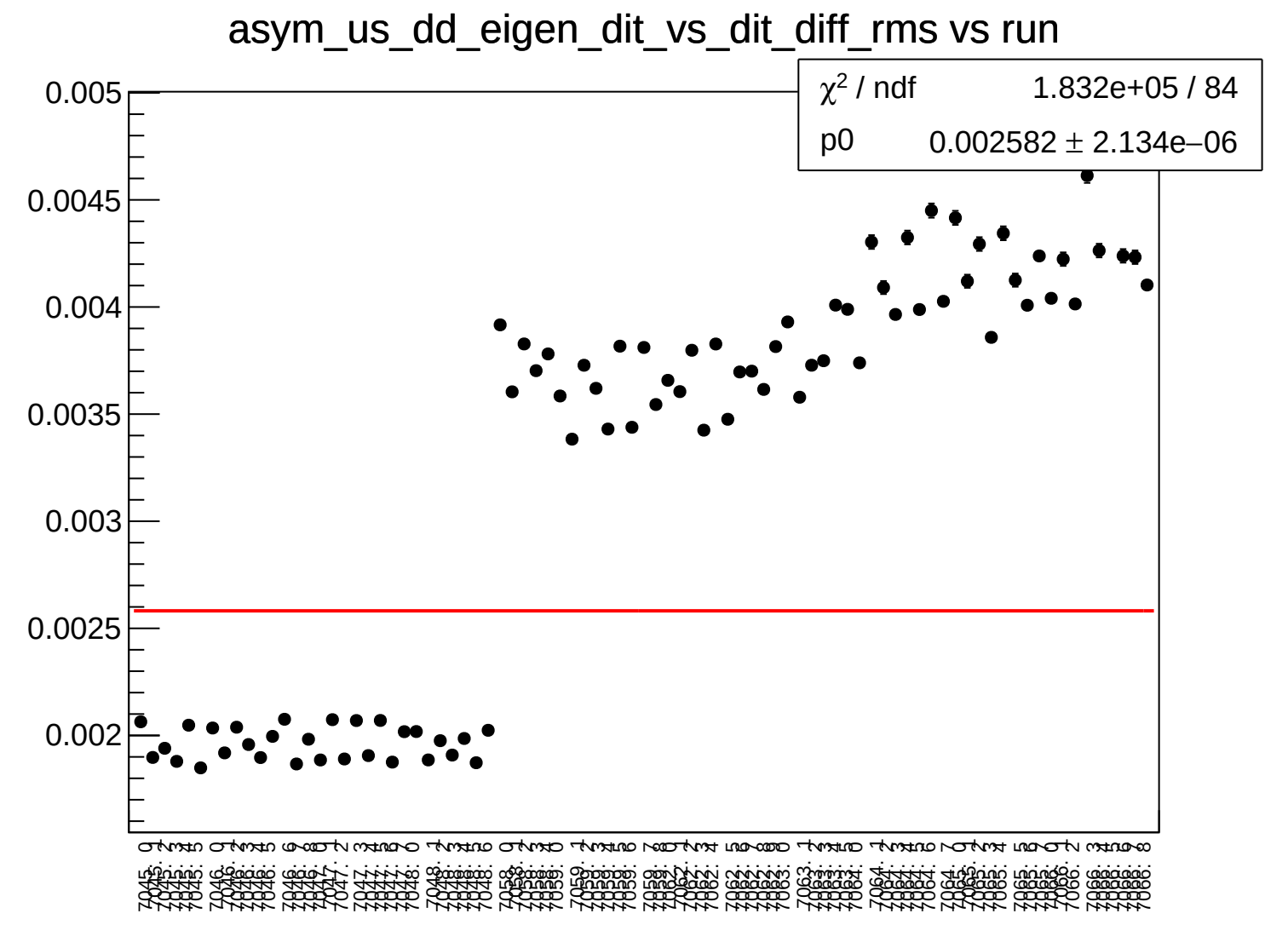

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.507e+05 / 84
p0 20.07 ± 0.01762
90
80
70
60
50
40
30
20
10

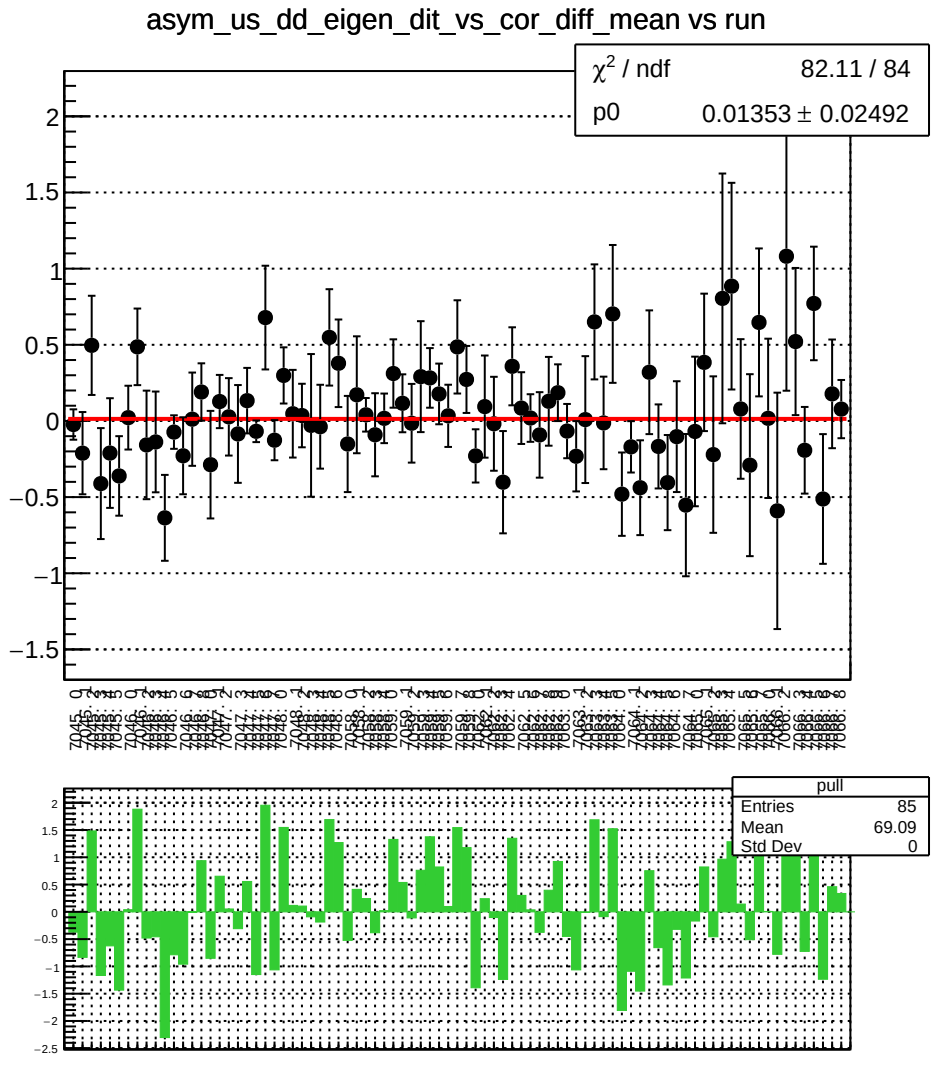

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.6 / 84
p0 0.01164 ± 0.04479
pull
Entries 85
Mean 150.1
Std Dev 0
pull1D
Entries 85
Mean 0.01309
Std Dev 1.015

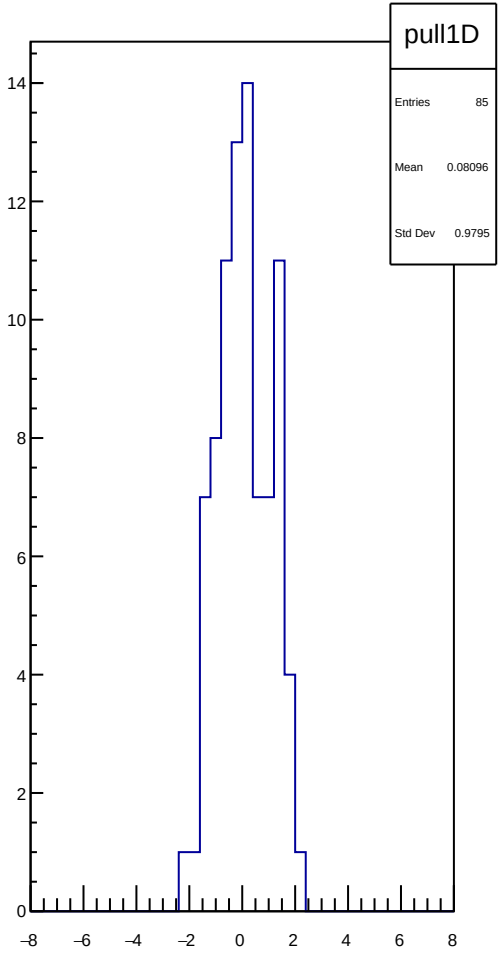

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.349e+05 / 84
p0 38.95 ± 0.03167
100
90
80
70
60
50
40
30
20

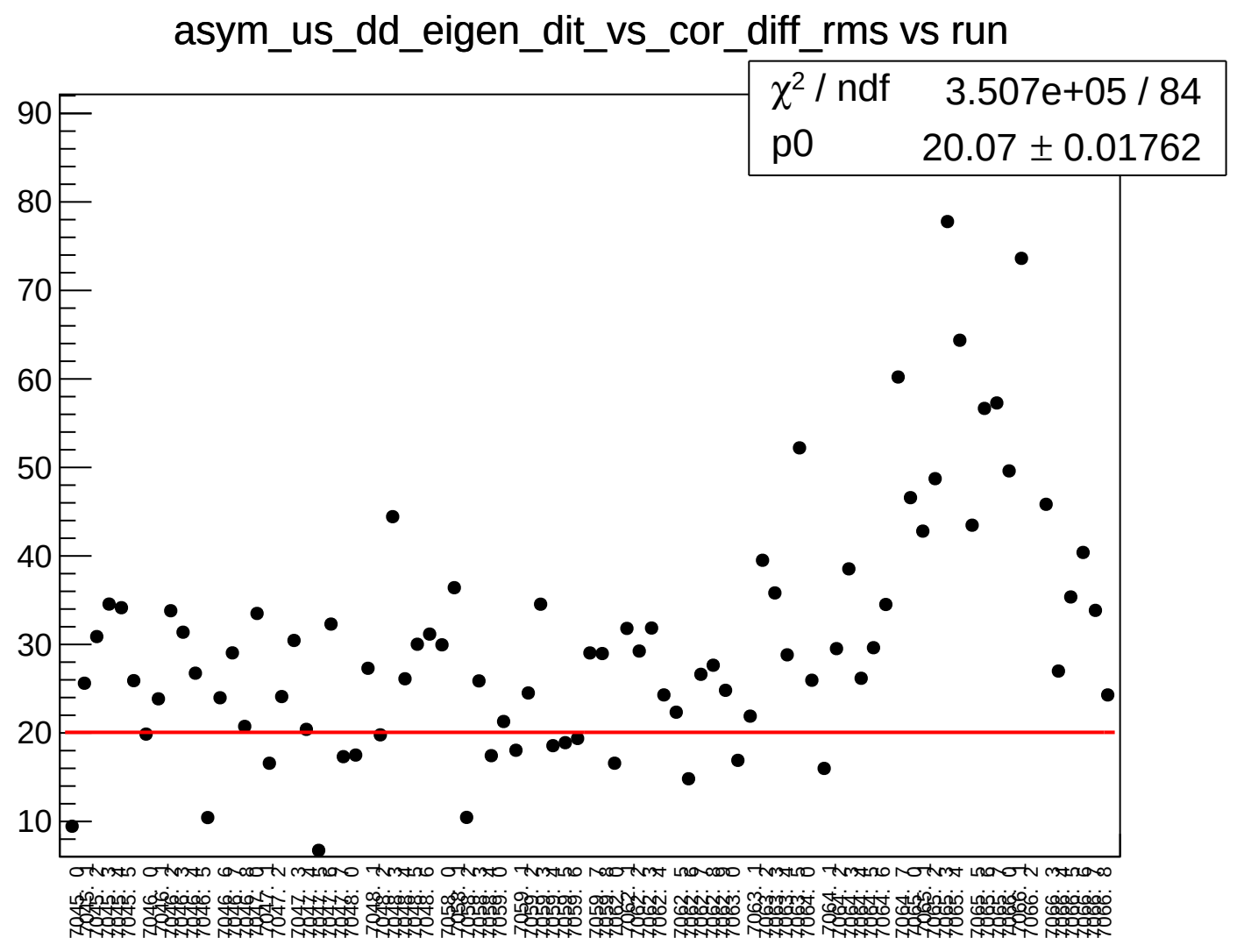

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.49 / 84
p0 1.001e−07 ± 3.018e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 129.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

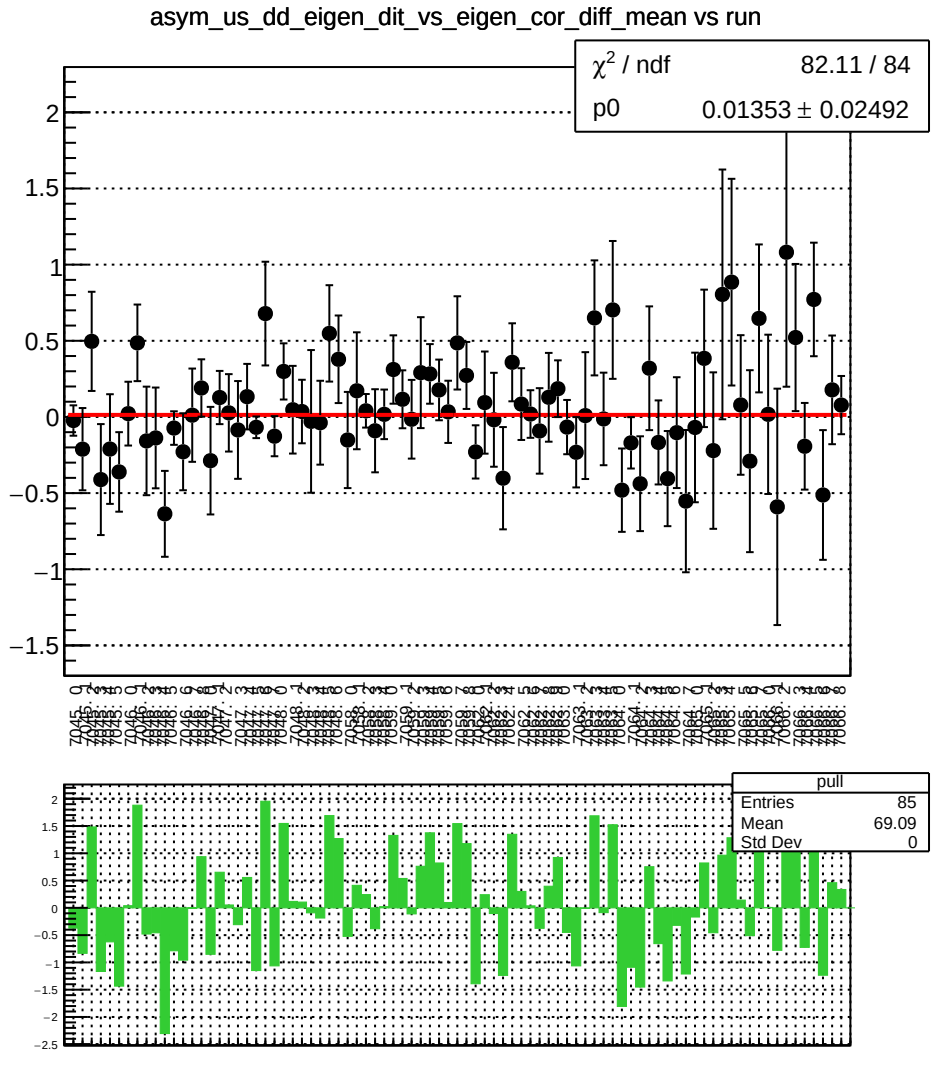

pull1D
Entries 85
Mean 0.04686
Std Dev 0.903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

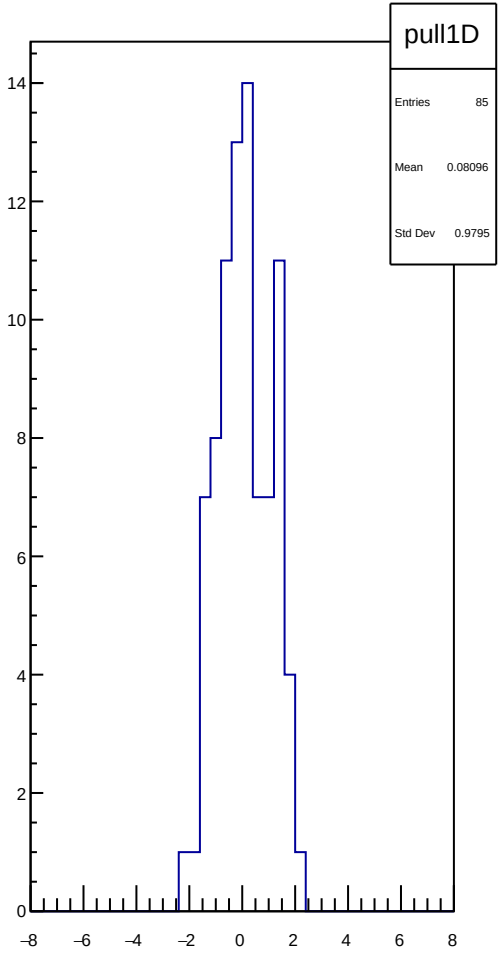

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.832e+05 / 84
p0 0.002582 ± 2.134e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

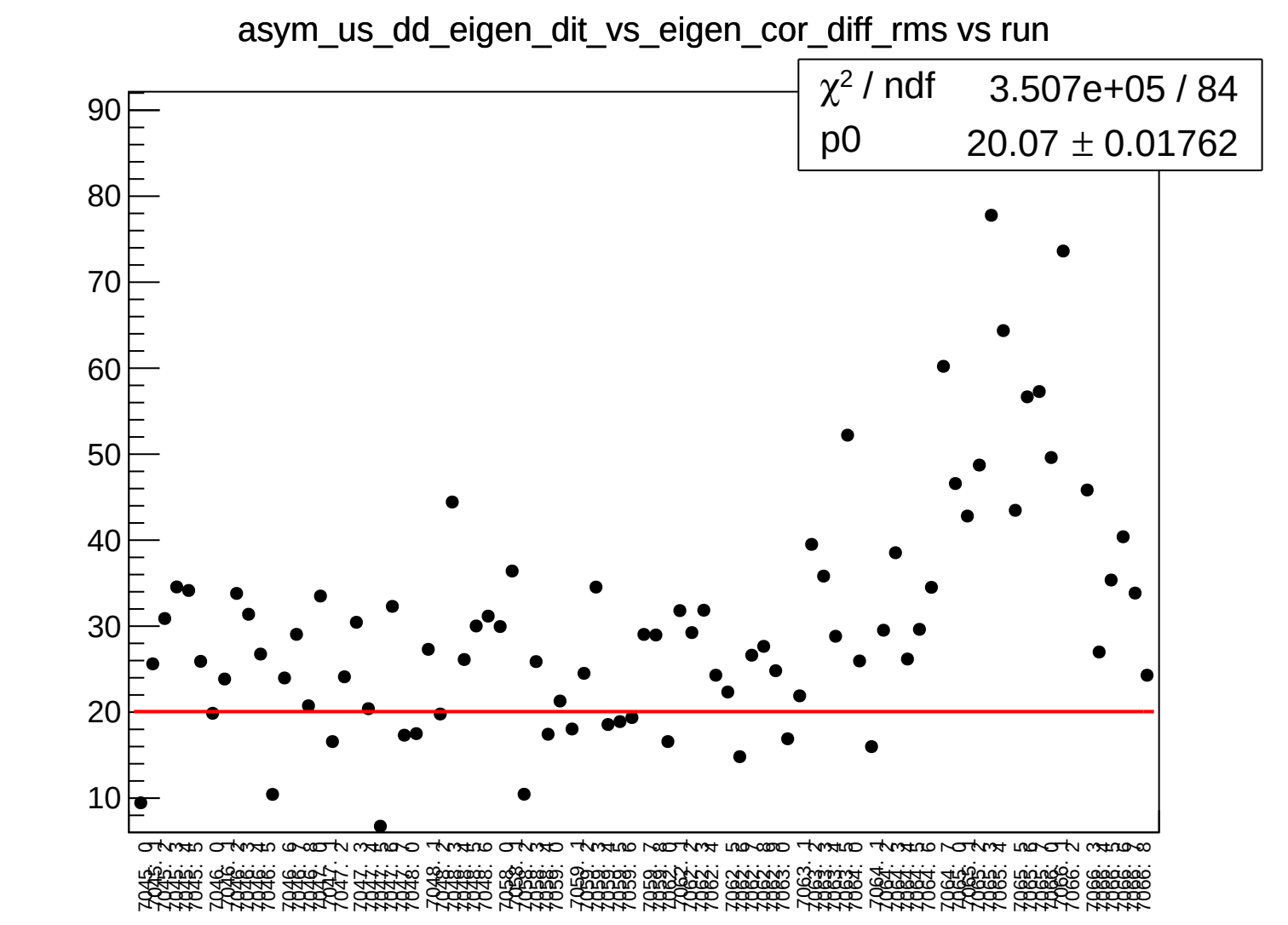

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 84
p0 0.01353 ± 0.02492
pull
Entries 85
Mean 69.09
Std Dev 0

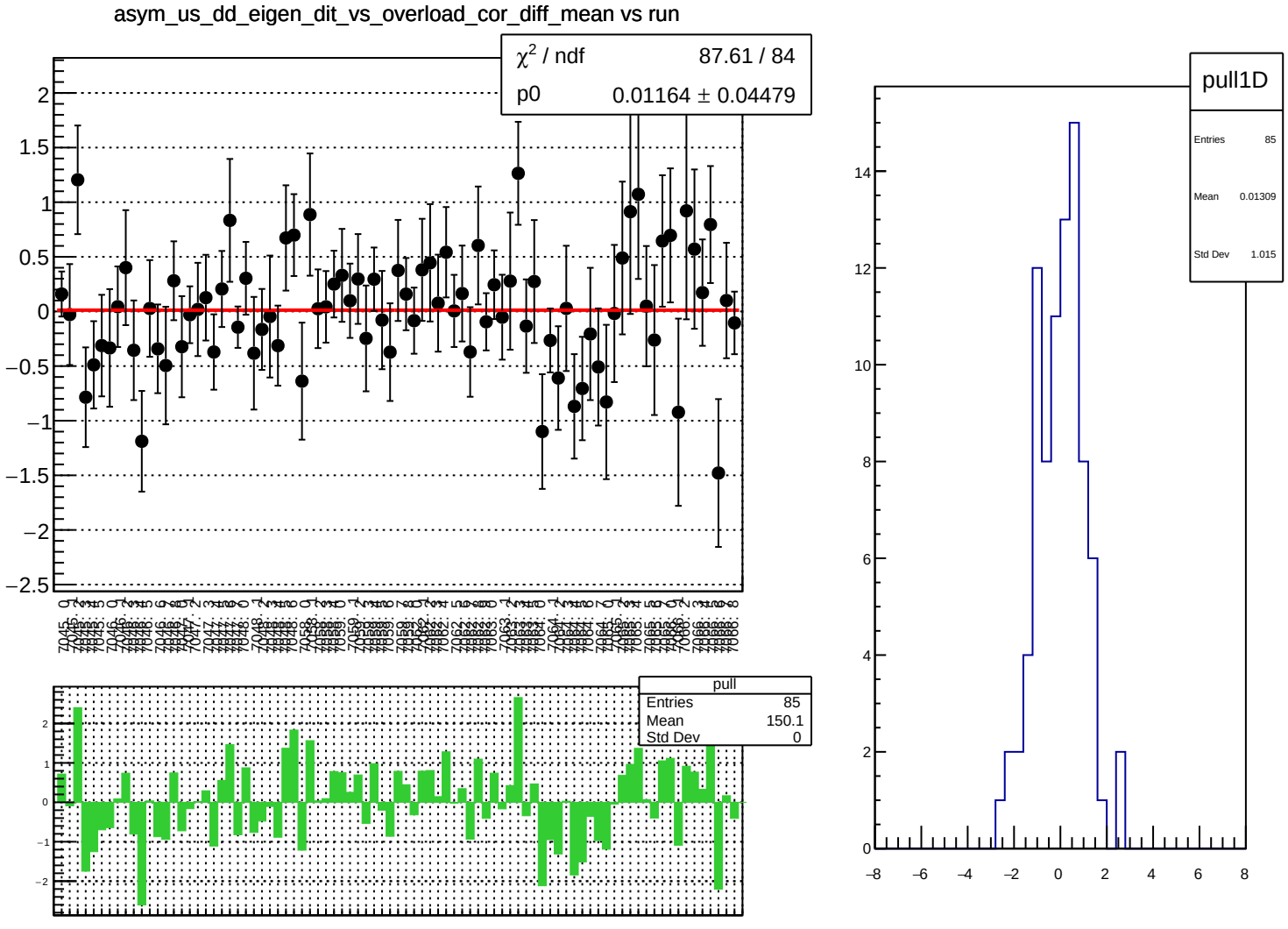

pull1D
Entries 85
Mean 0.08096
Std Dev 0.9795

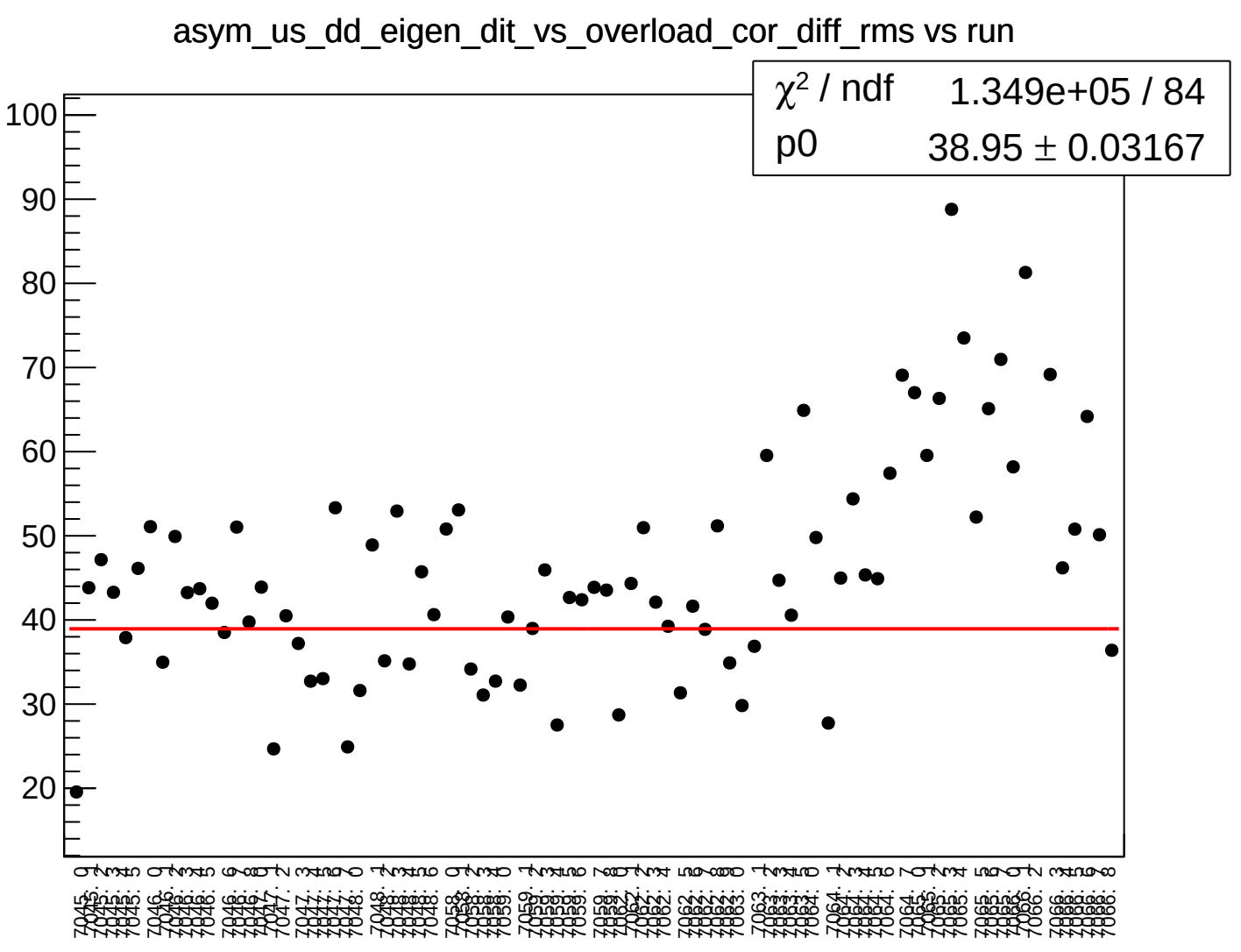

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.507e+05 / 84
p0 20.07 ± 0.01762
90
80
70
60
50
40
30
20
10

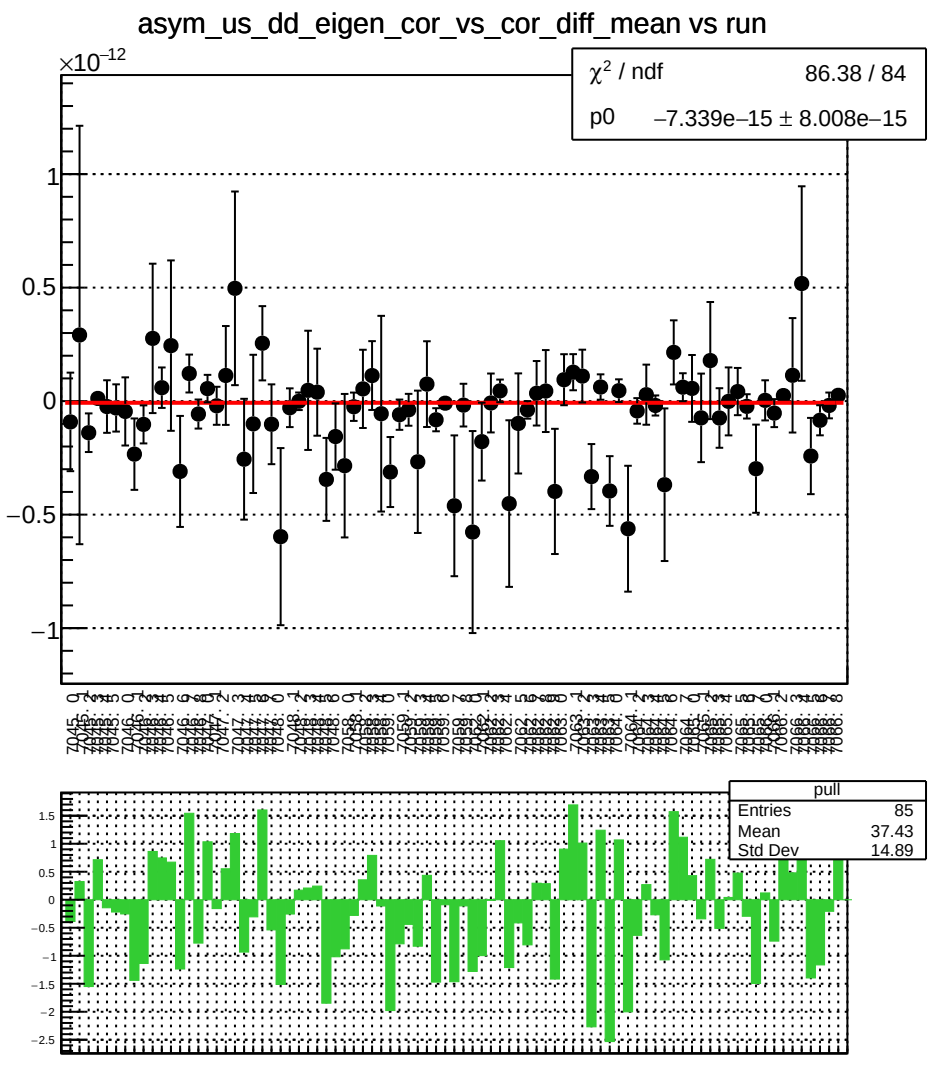

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.11 / 84
p0 0.01353 ± 0.02492
pull
Entries 85
Mean 69.09
Std Dev 0

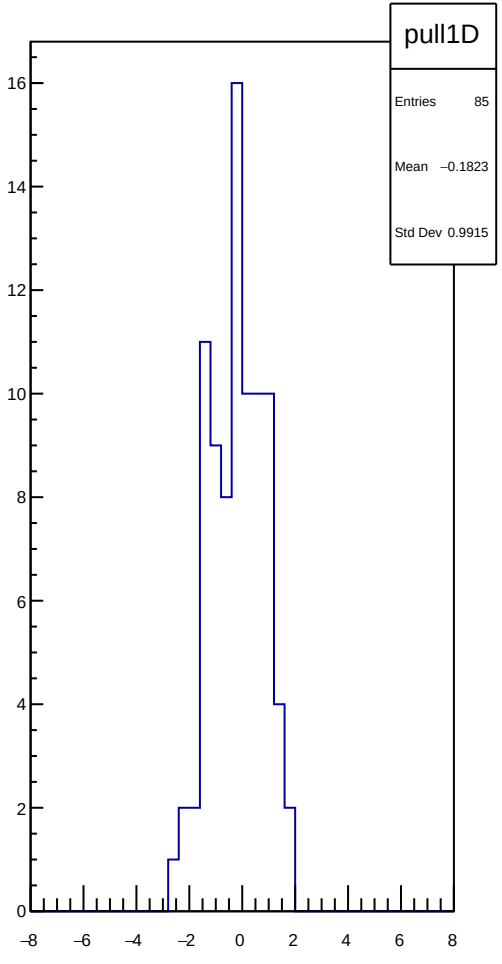

pull1D
Entries 85
Mean 0.08096
Std Dev 0.9795

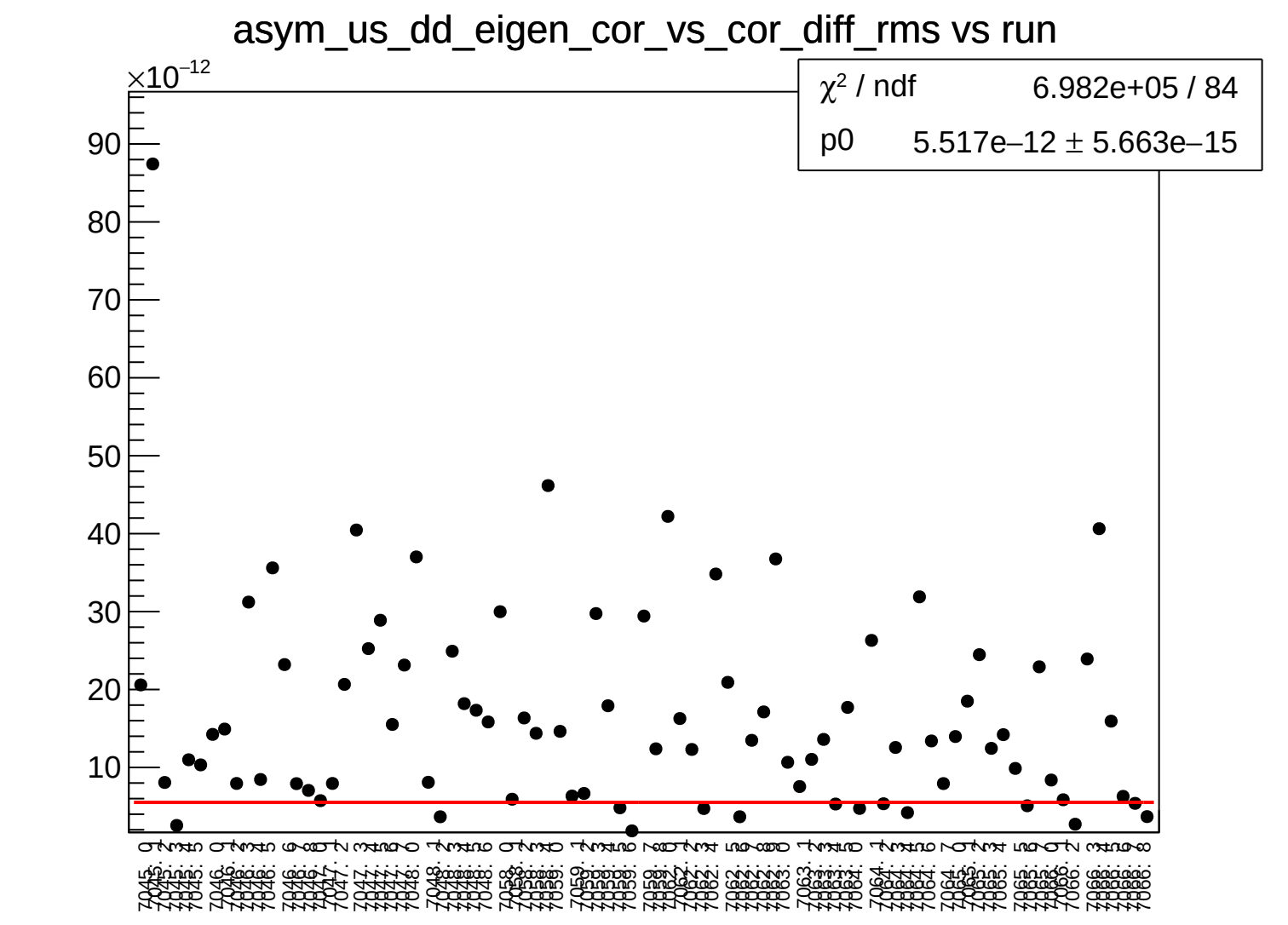

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.507e+05 / 84
p0 20.07 ± 0.01762
90
80
70
60
50
40
30
20
10

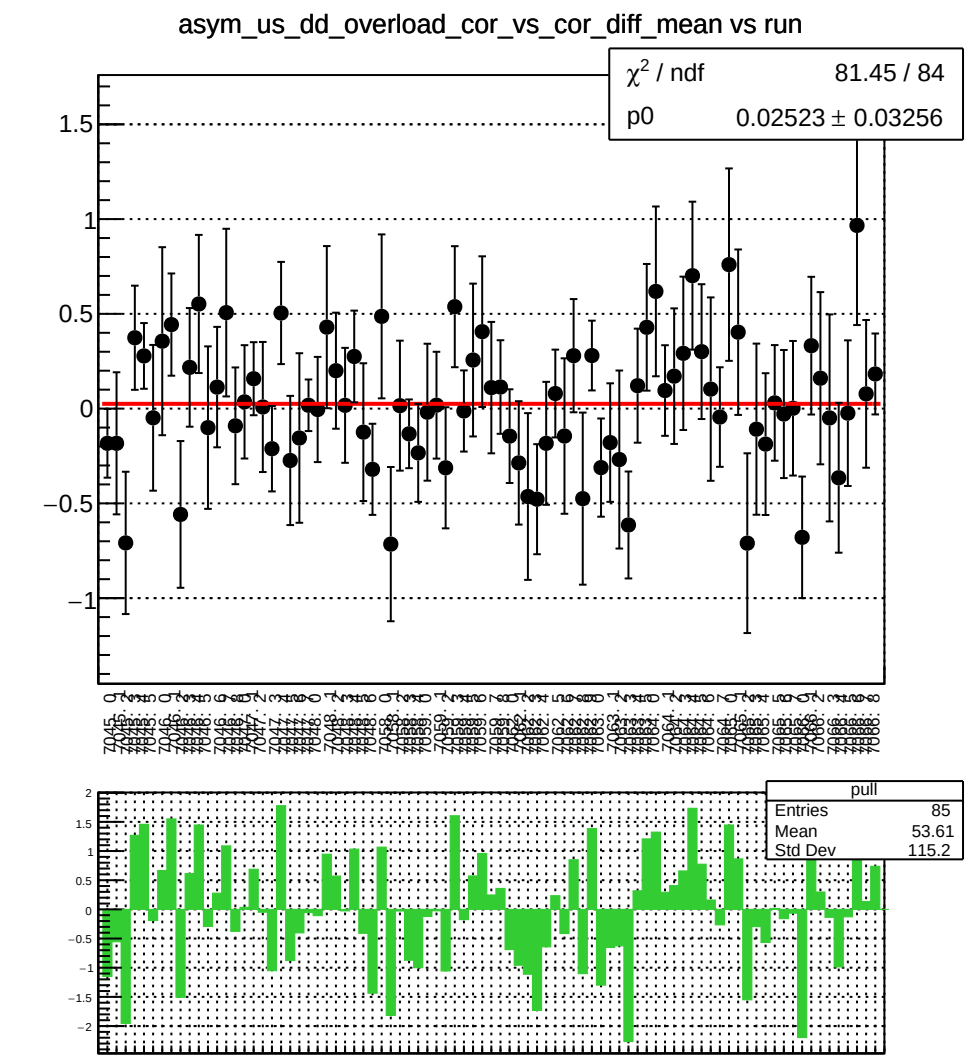

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.61 / 84
p0 0.01164 ± 0.04479
pull
Entries 85
Mean 150.1
Std Dev 0
pull1D
Entries 85
Mean 0.01309
Std Dev 1.015

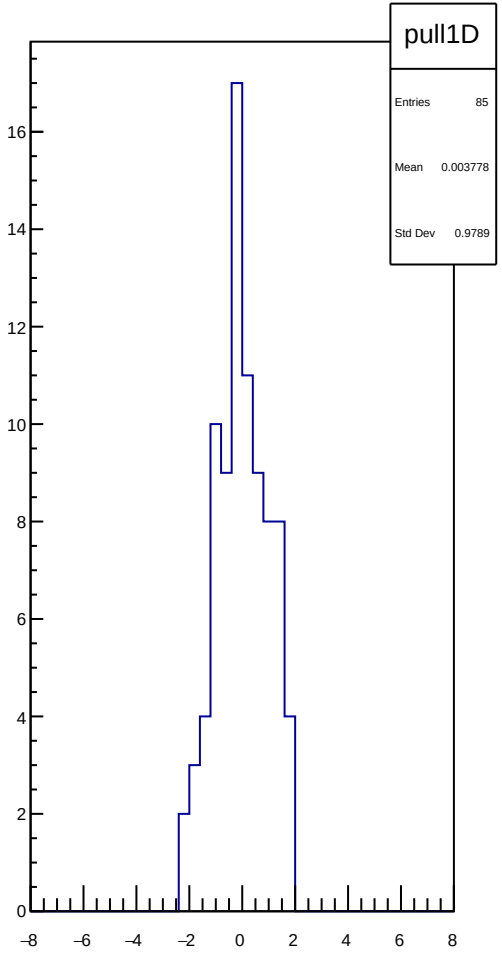

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.349e+05 / 84
p0 38.95 ± 0.03167
100
90
80
70
60
50
40
30
20

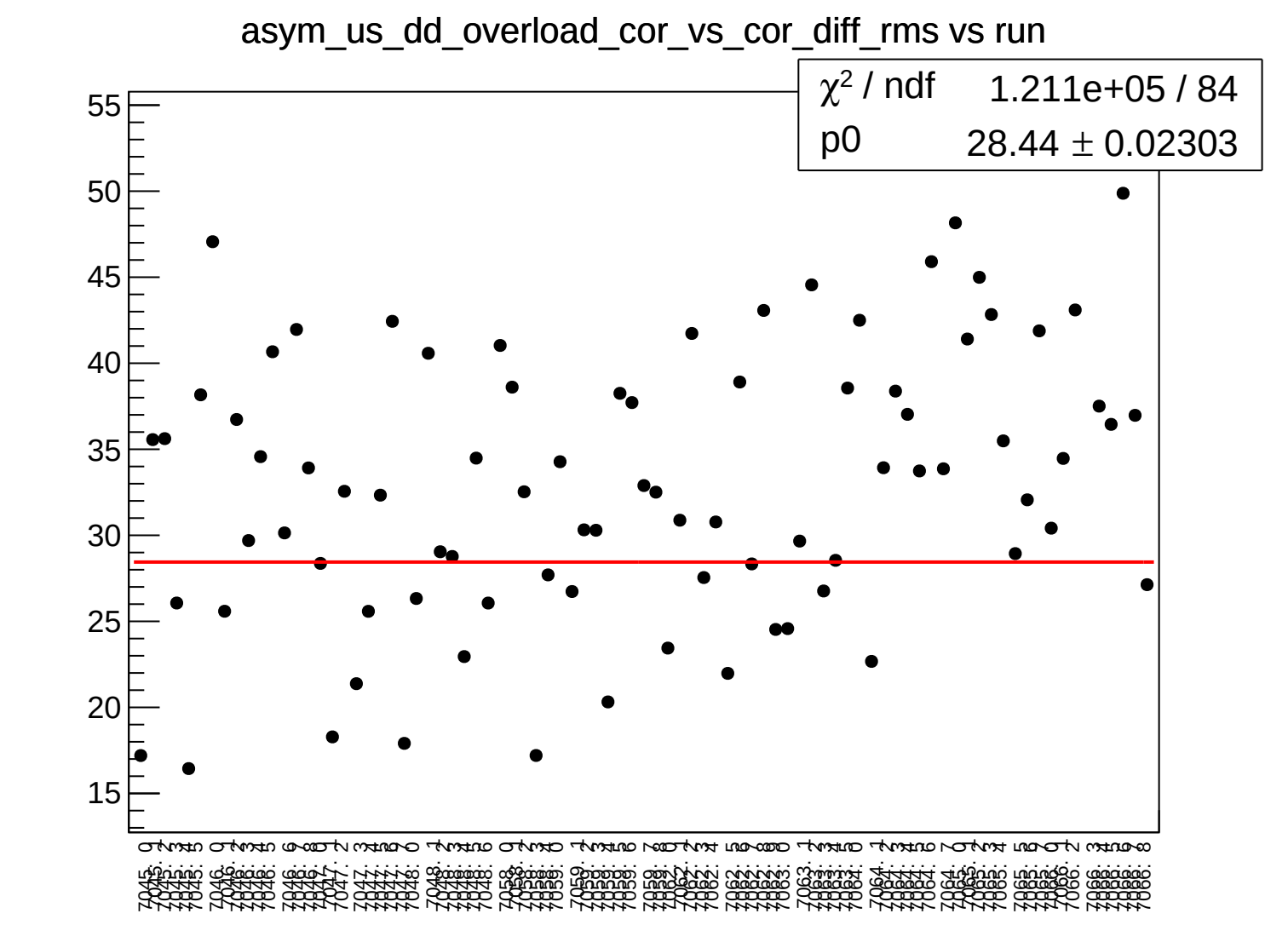

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.38 / 84
p0 −7.339e−15 ± 8.008e−15
pull
Entries 85
Mean 37.43
Std Dev 14.89

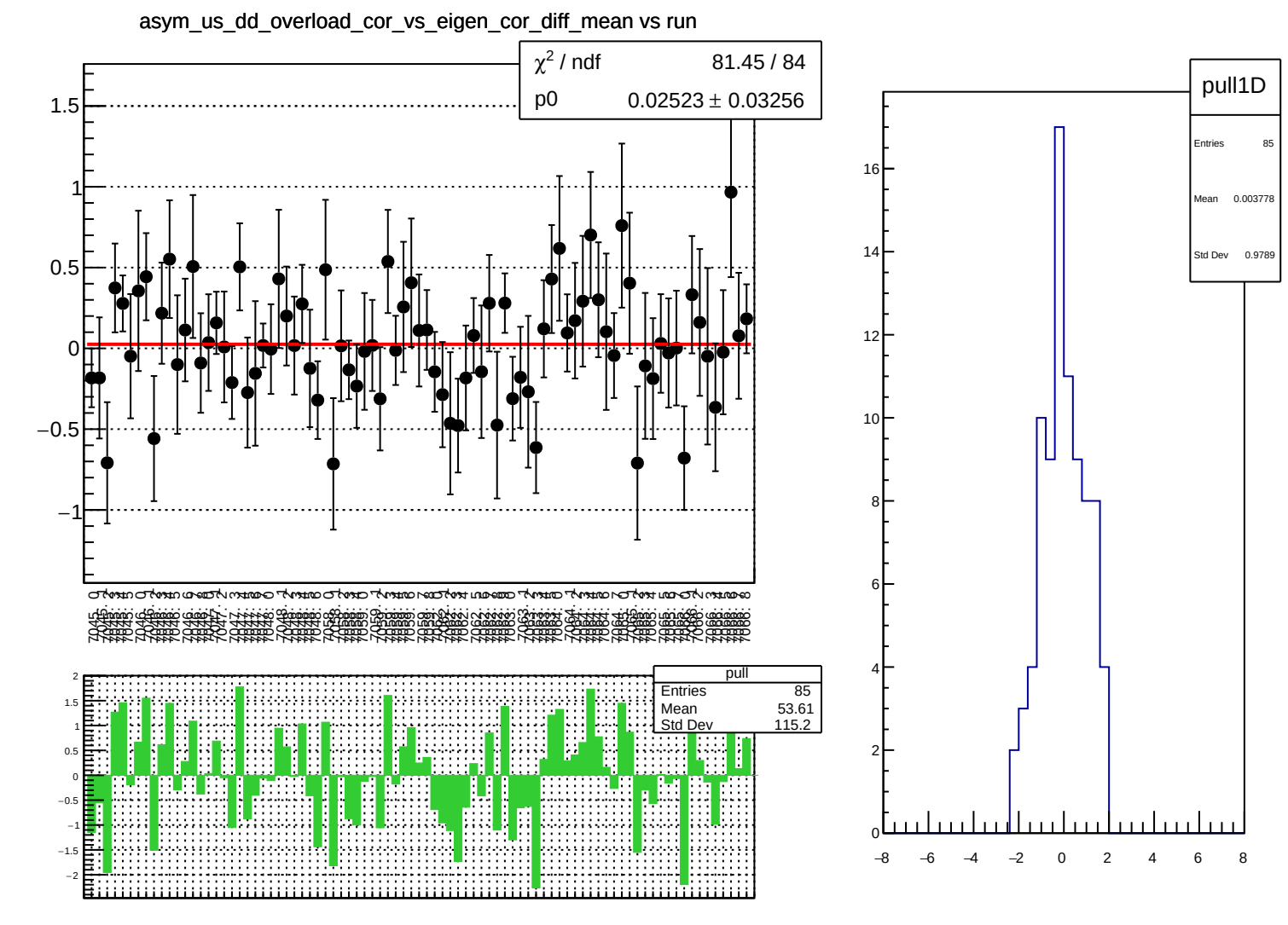

pull1D
Entries 85
Mean −0.1823
Std Dev 0.9915

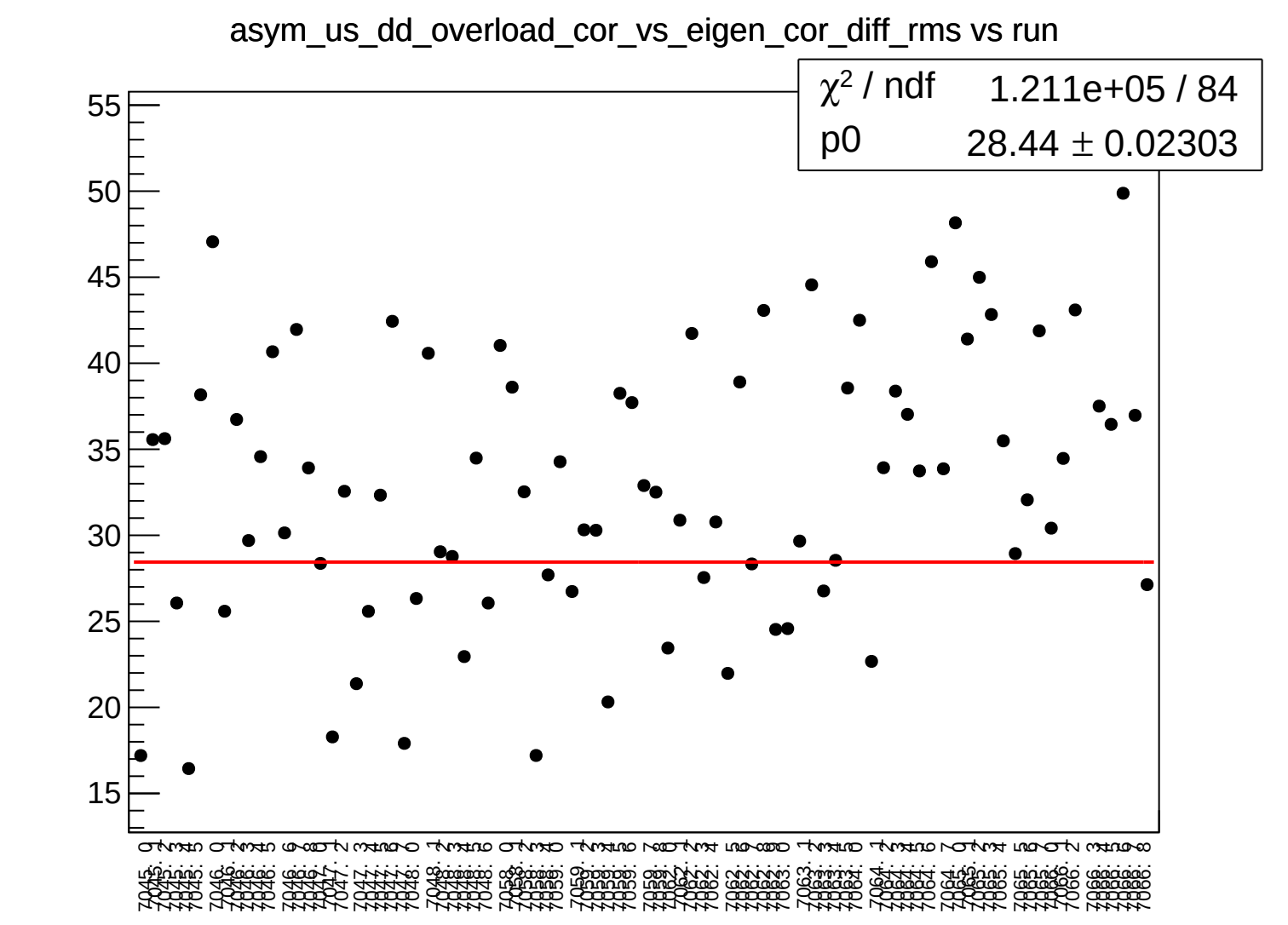

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.982e+05 / 84
p0 5.517e−12 ± 5.663e−15
90
80
70
60
50
40
30
20
10

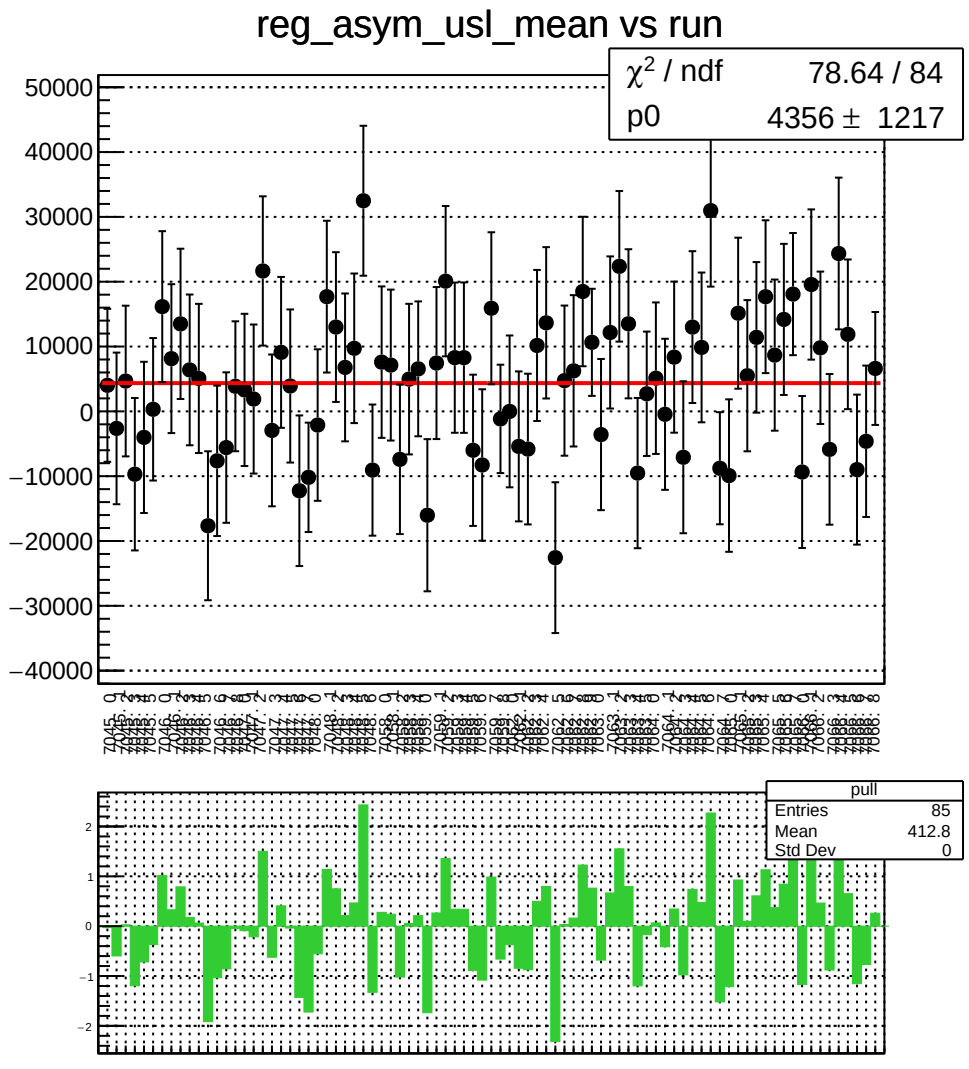

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 81.45 / 84
p0 0.02523 ± 0.03256
pull
Entries 85
Mean 53.61
Std Dev 115.2

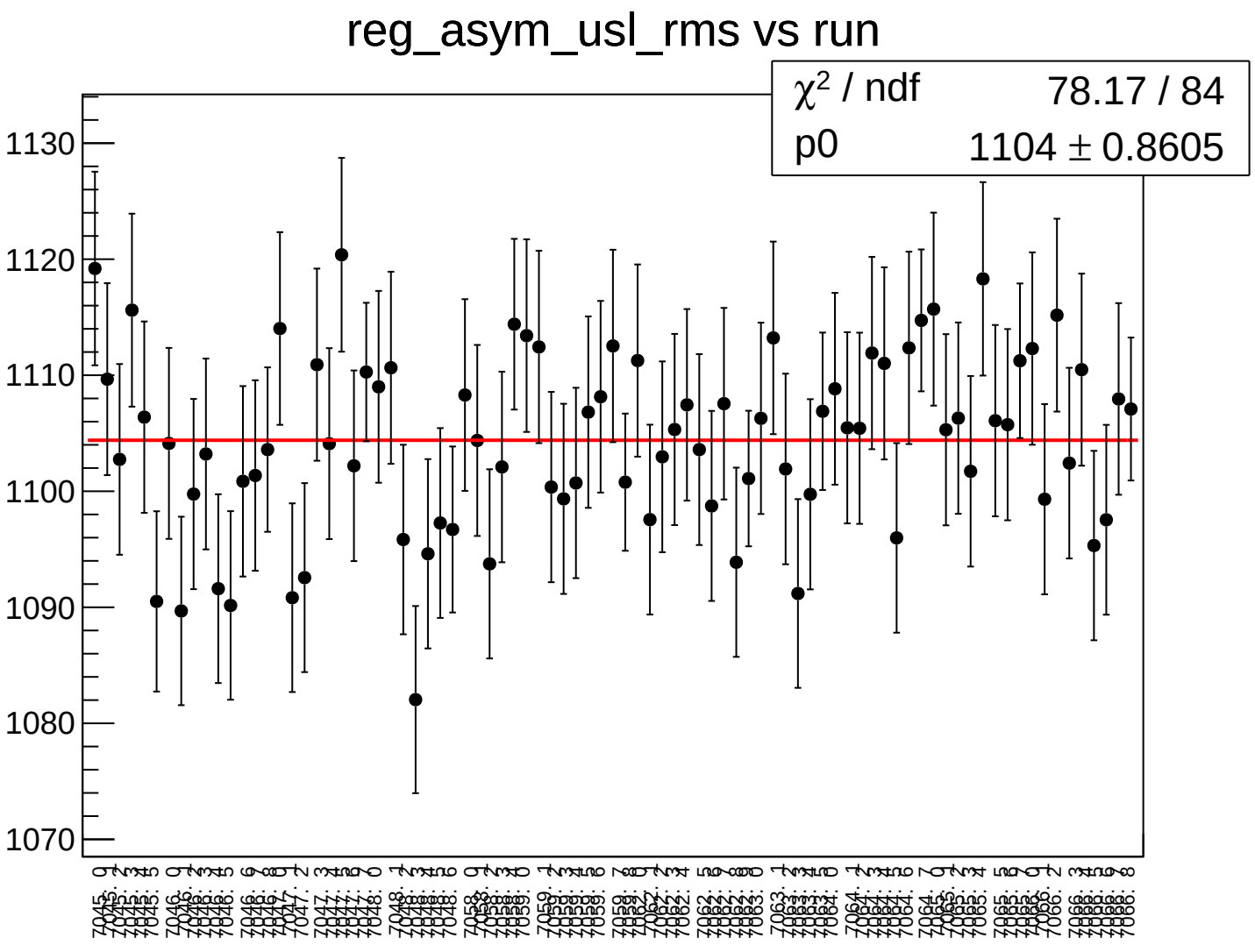

pull1D
Entries 85
Mean 0.003778
Std Dev 0.9789

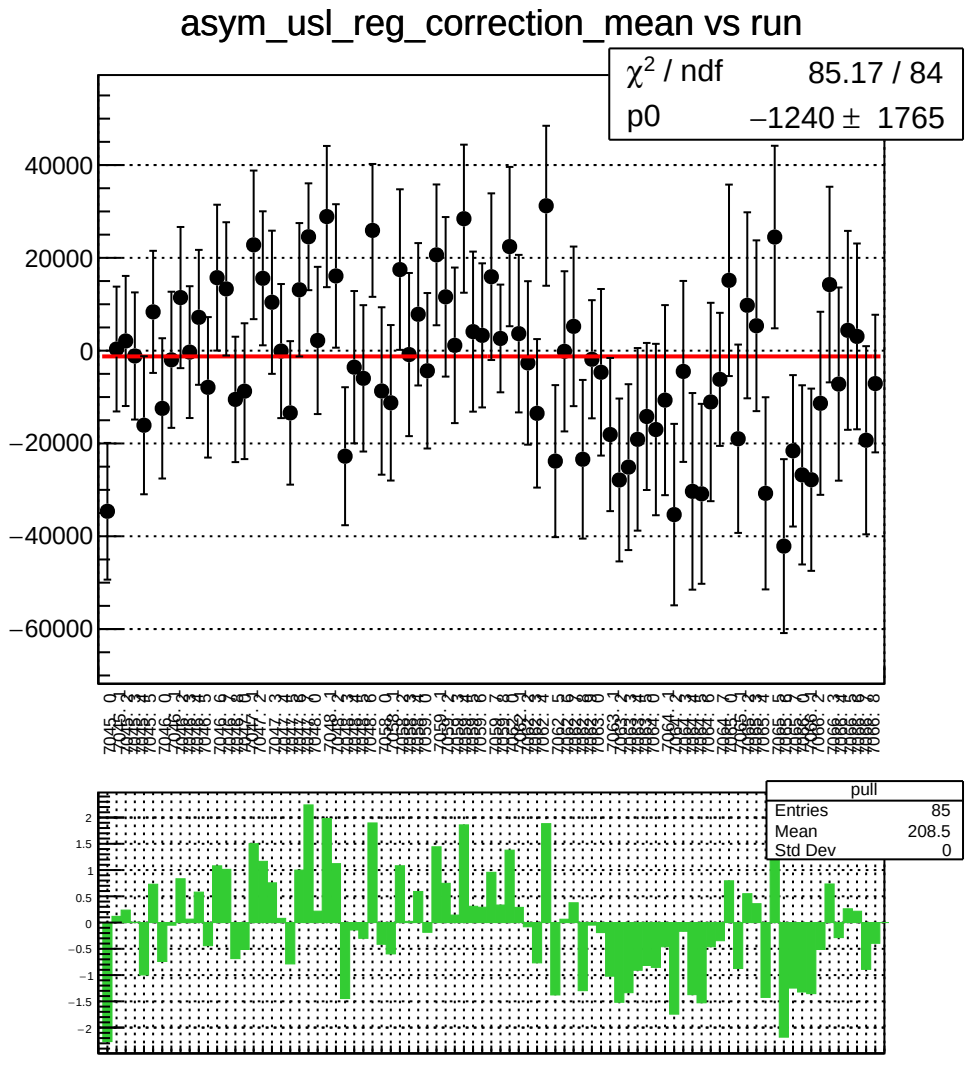

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.211e+05 / 84
p0 28.44 ± 0.02303
55
50
45
40
35
30
25
20
15

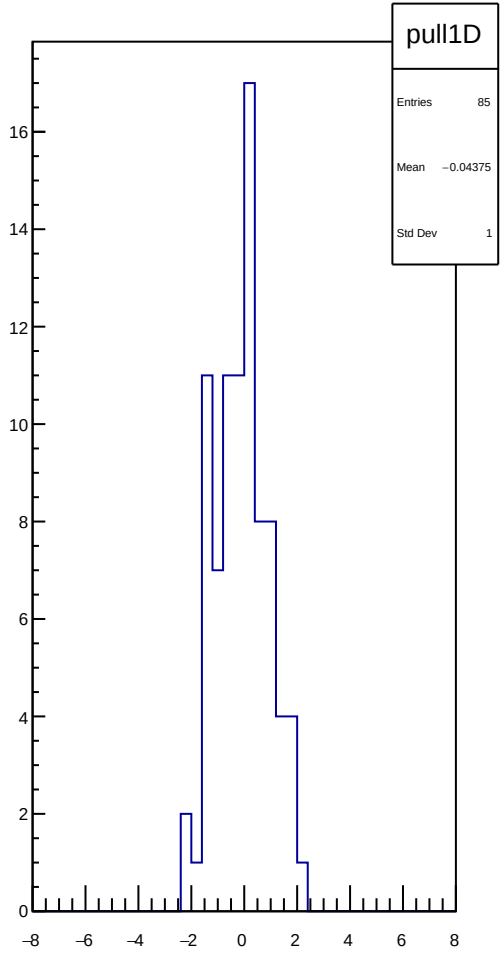

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.45 / 84
p0 0.02523 ± 0.03256
pull
Entries 85
Mean 53.61
Std Dev 115.2
pull1D
Entries 85
Mean 0.003778
Std Dev 0.9789

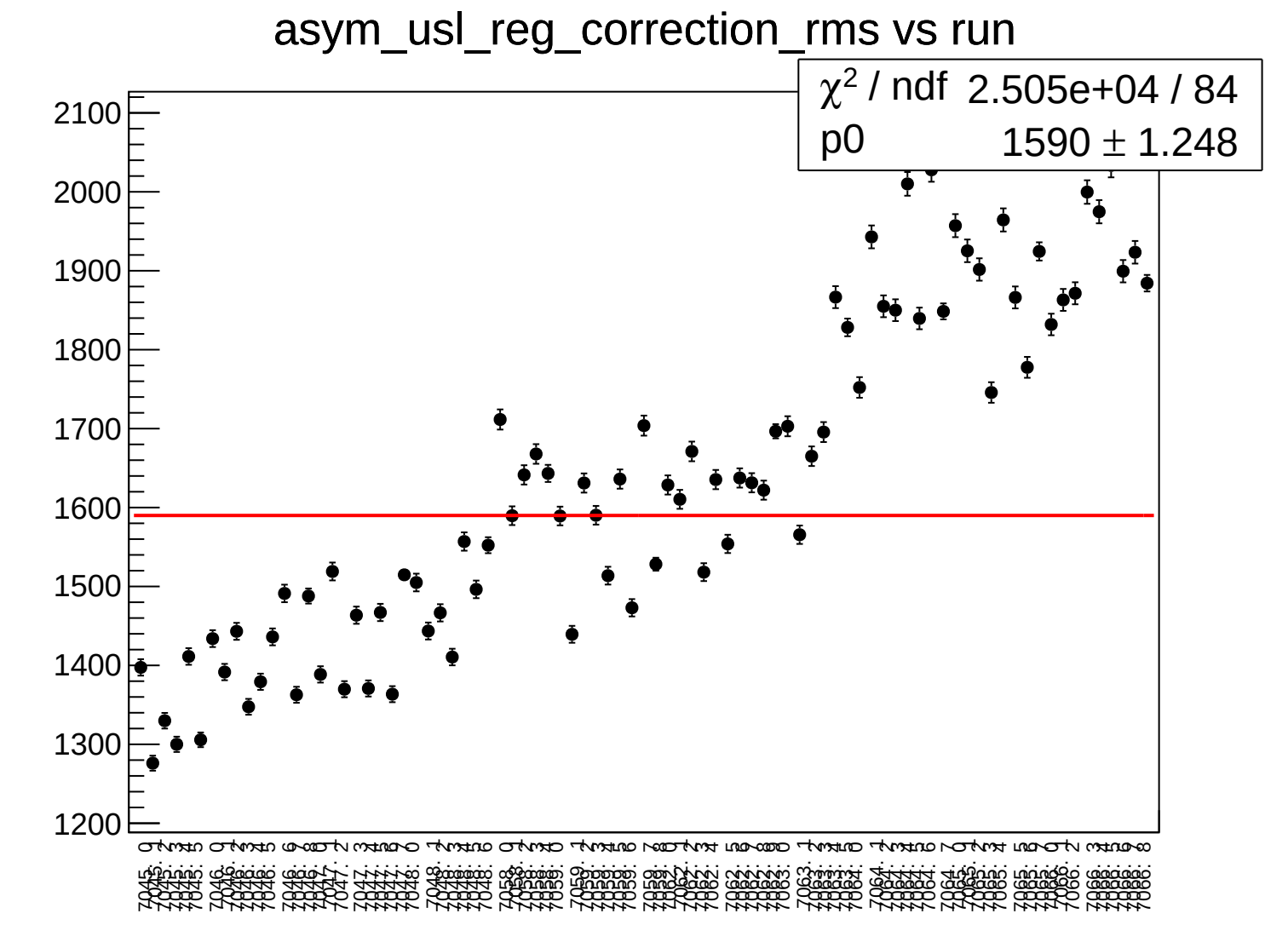

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.211e+05 / 84
p0 28.44 ± 0.02303
55
50
45
40
35
30
25
20
15

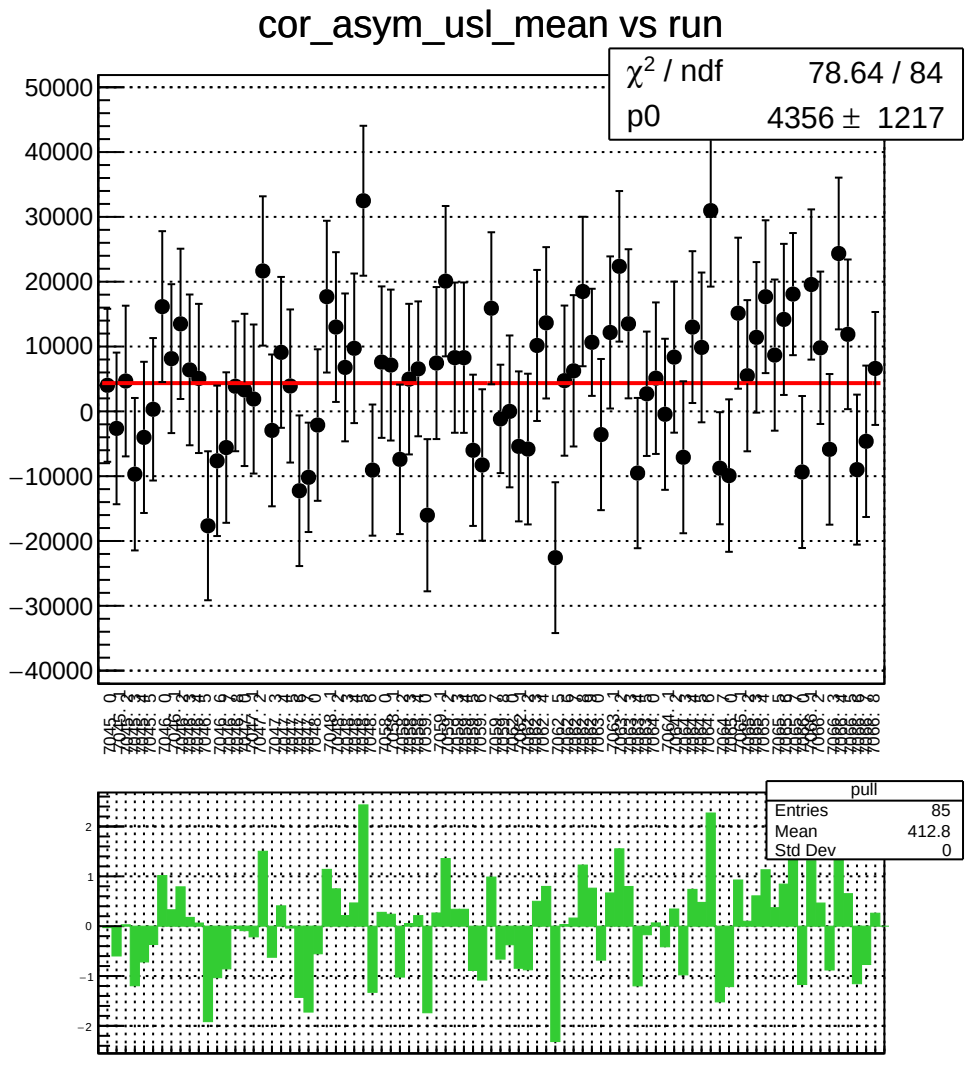

reg_asym_usl_mean vs run
χ^2 / ndf 78.64 / 84
p0 4356 ± 1217
pull
Entries 85
Mean 412.8
Std Dev 0
pull1D
Entries 85
Mean 0.01059
Std Dev 0.9618

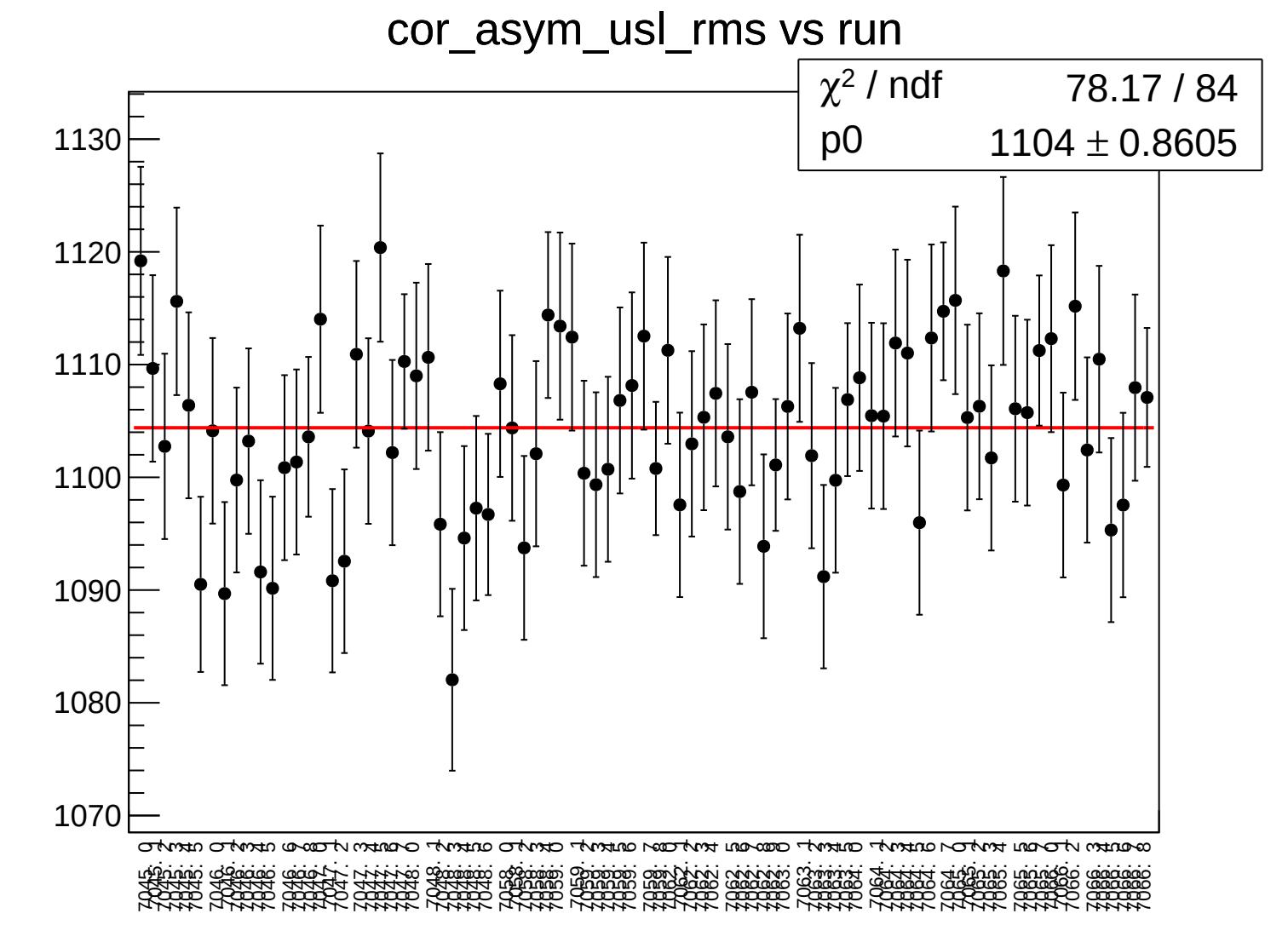

reg_asym_usl_rms vs run
χ² / ndf 78.17 / 84
p0 1104 ± 0.8605
1130
1120
1110
1100
1090
1080
1070

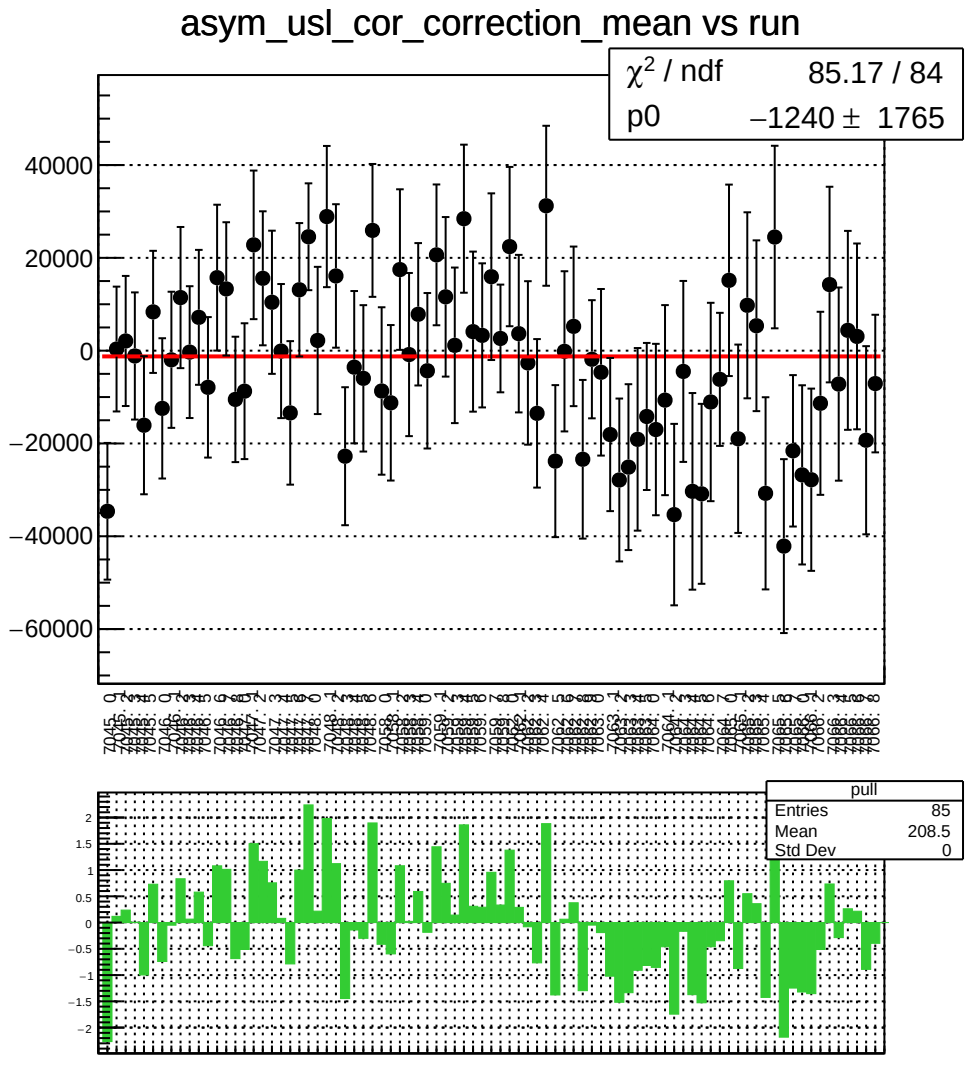

asym_usl_reg_correction_mean vs run
χ² / ndf 85.17 / 84
p0 −1240 ± 1765
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 208.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

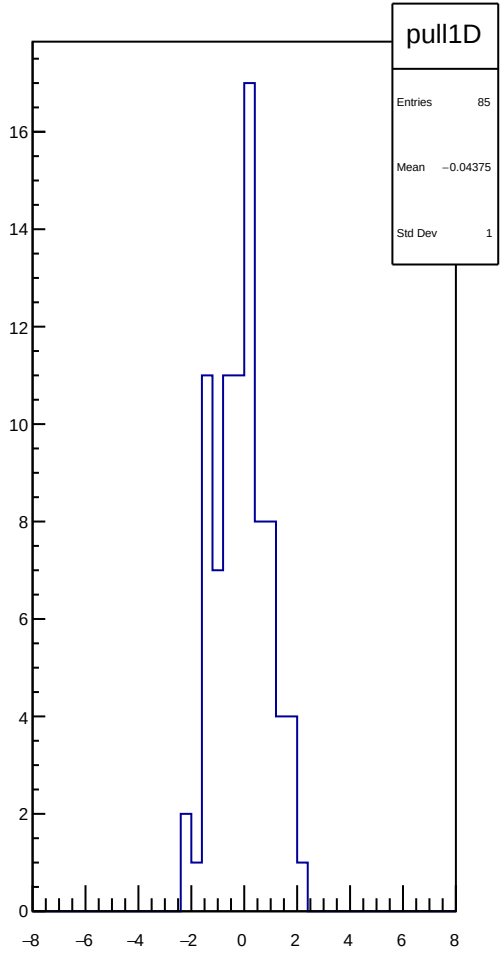

pull1D
Entries 85
Mean −0.04375
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

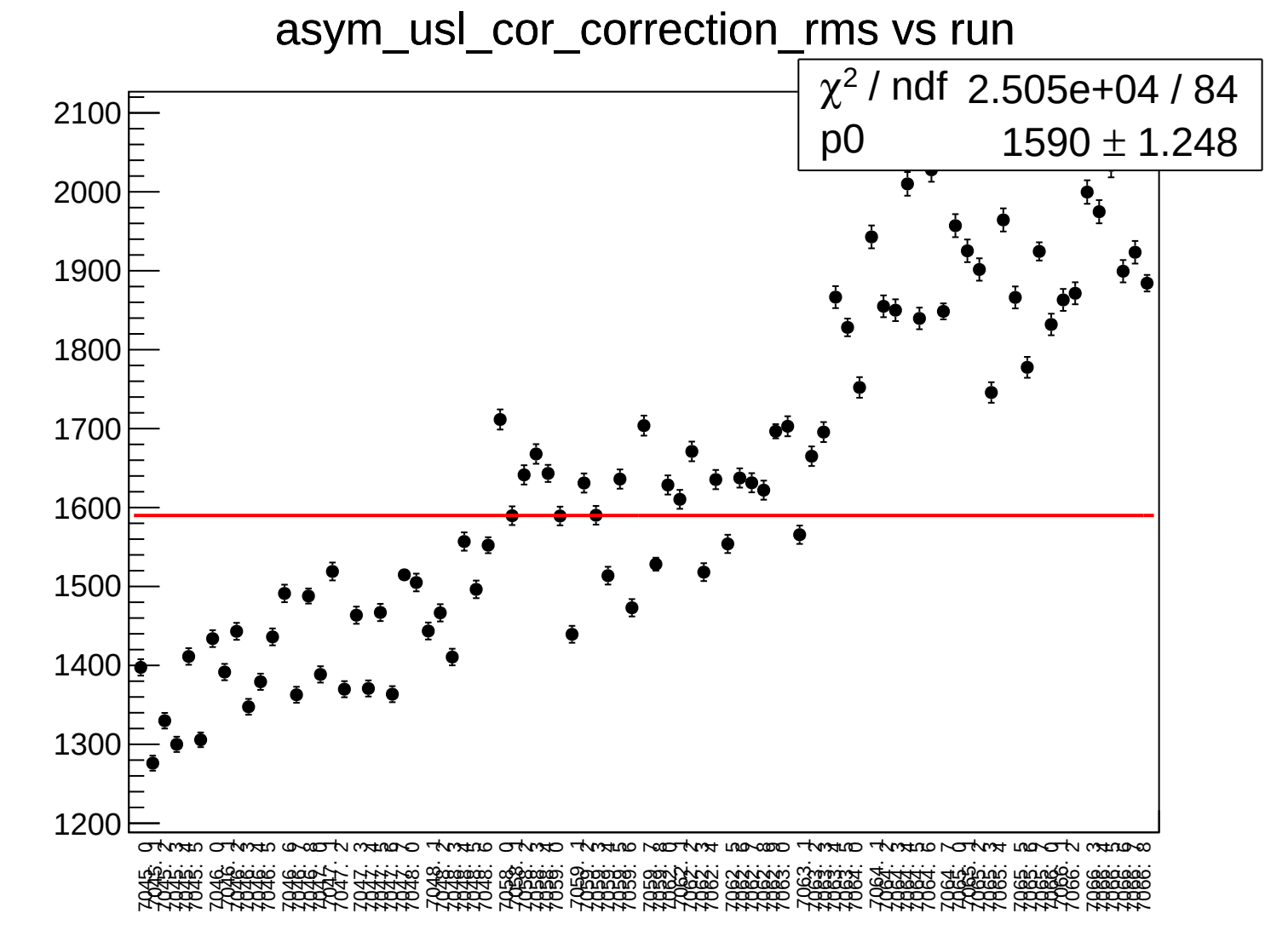

asym_usl_reg_correction_rms vs run
χ² / ndf 2.505e+04 / 84
p0 1590 ± 1.248
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

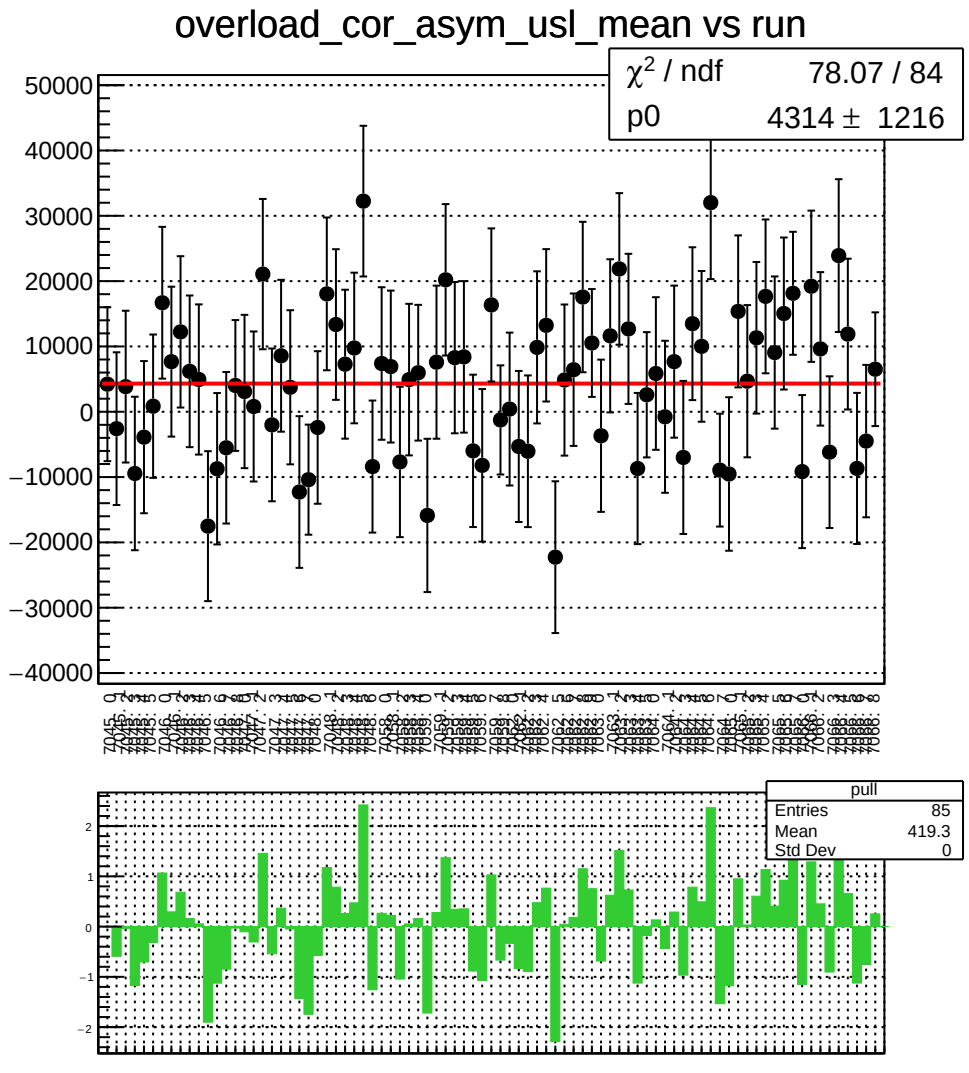

cor_asym_usl_mean vs run
χ² / ndf 78.64 / 84
p0 4356 ± 1217
pull
Entries 85
Mean 412.8
Std Dev 0
pull1D
Entries 85
Mean 0.01059
Std Dev 0.9618

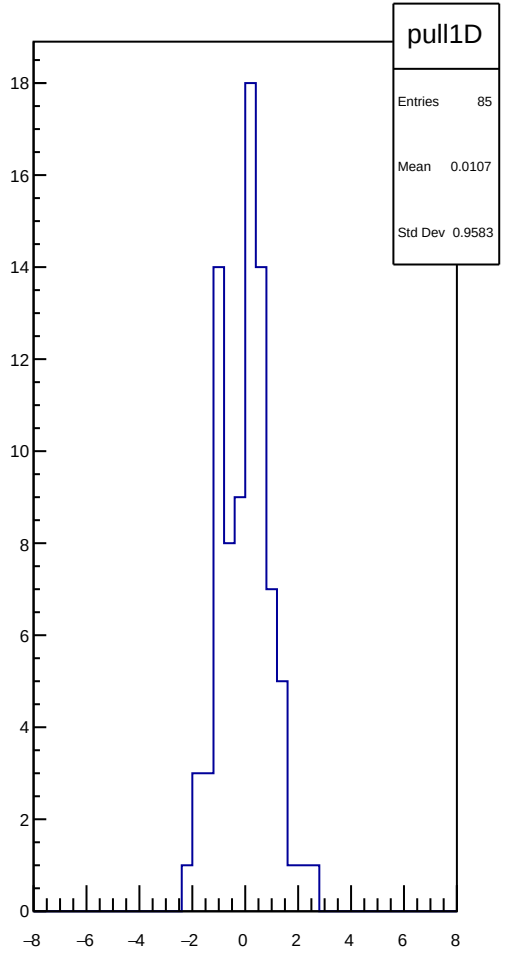

cor_asym_usl_rms vs run
χ^2 / ndf 78.17 / 84
p0 1104 ± 0.8605
1130
1120
1110
1100
1090
1080
1070

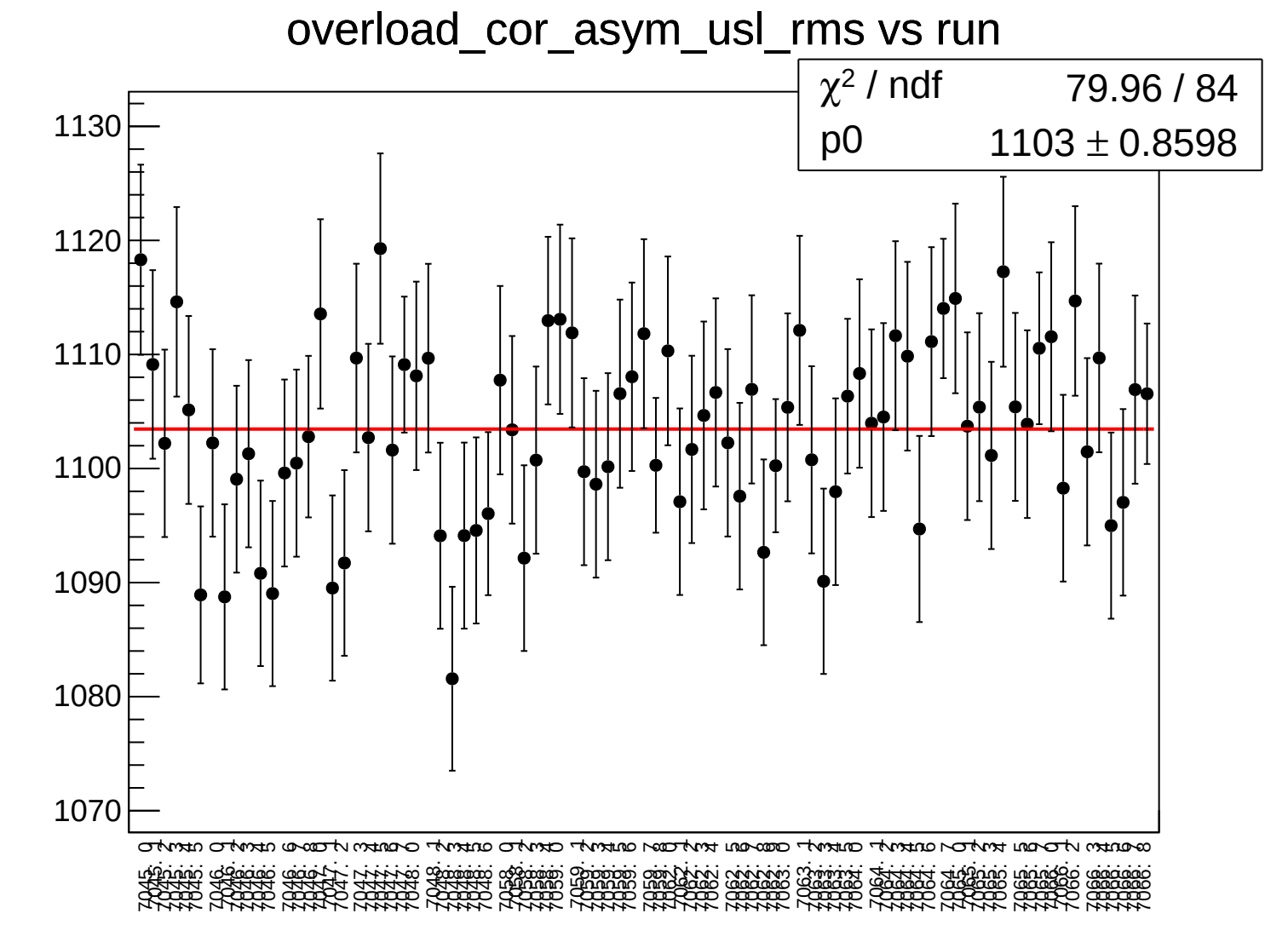

asym_usl_cor_correction_mean vs run
χ² / ndf 85.17 / 84
p0 −1240 ± 1765
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 208.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

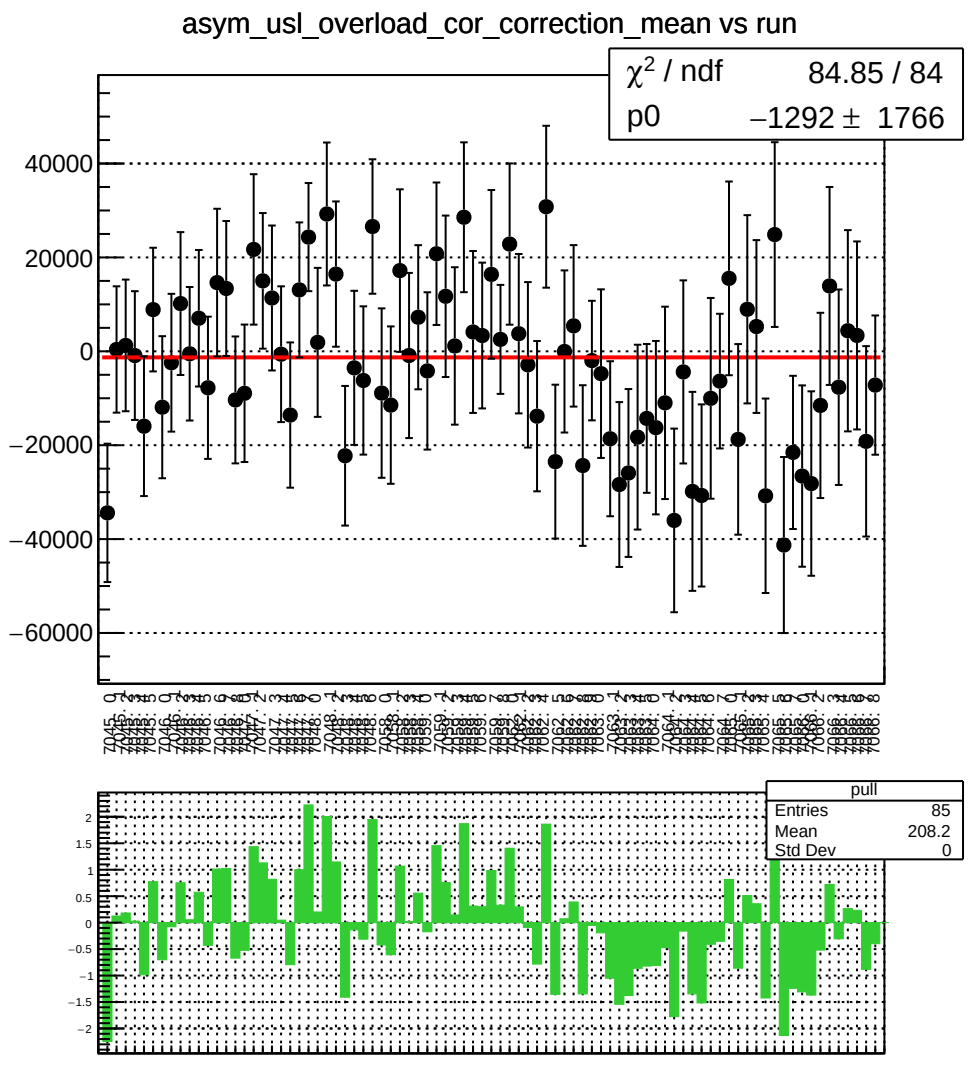

pull1D
Entries 85
Mean −0.04375
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

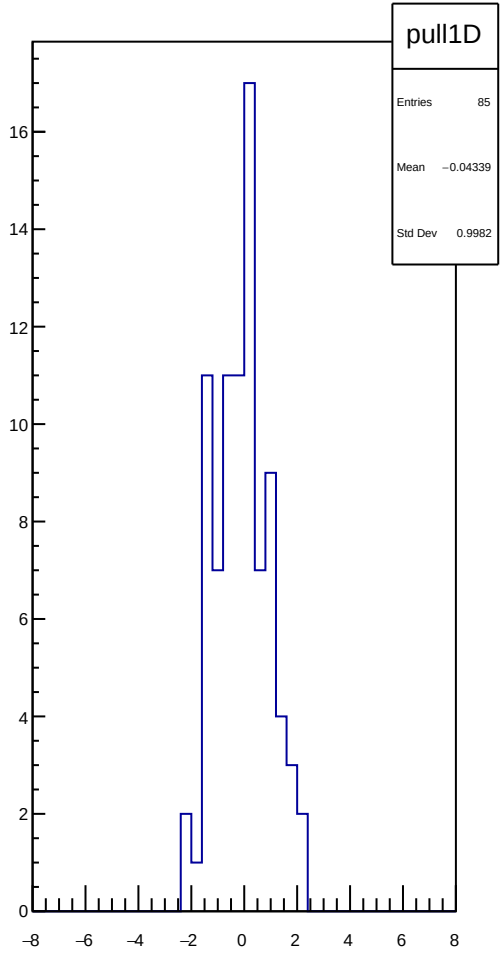

asym_usl_cor_correction_rms vs run
χ² / ndf 2.505e+04 / 84
p0 1590 ± 1.248
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

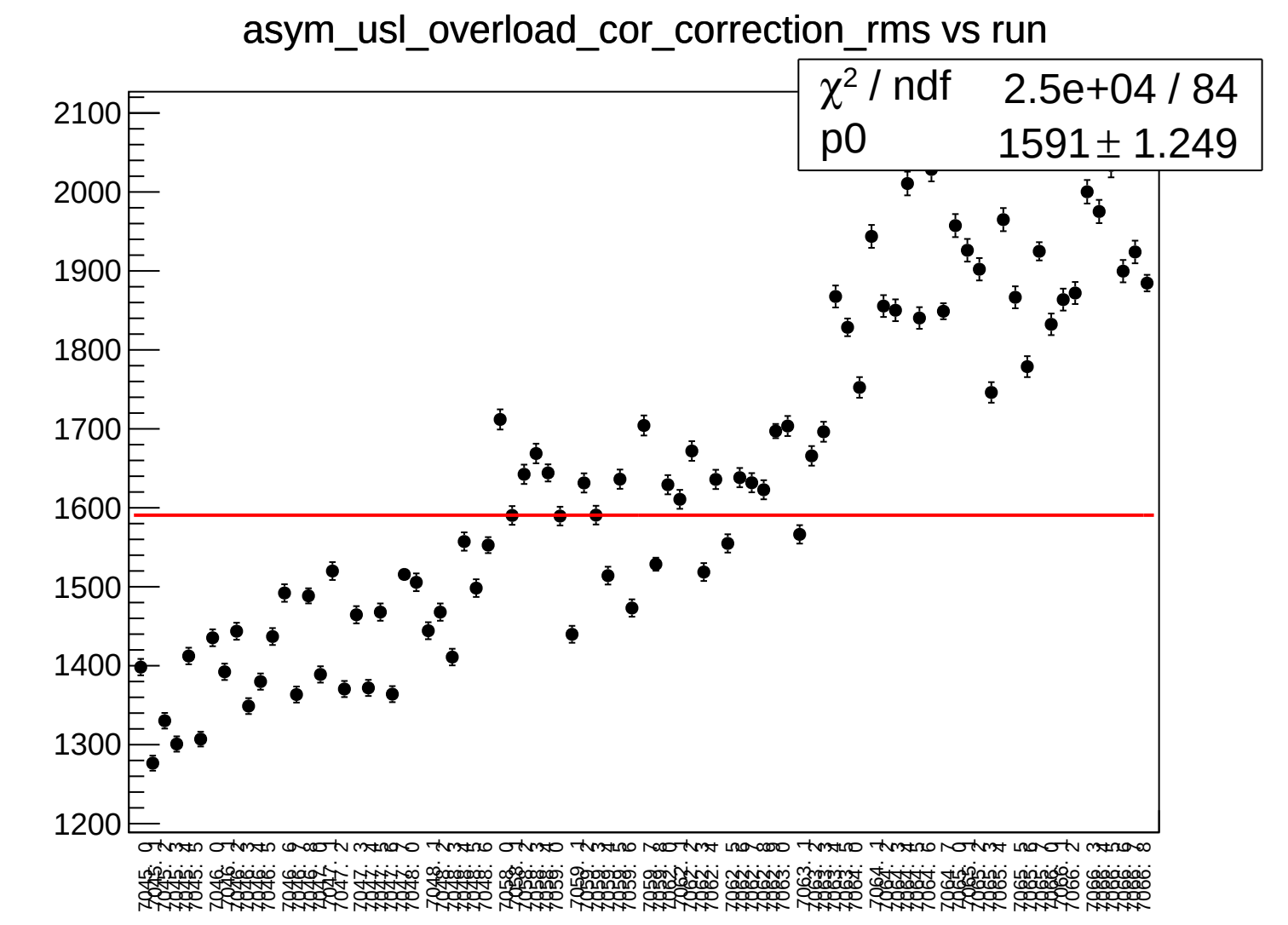

overload_cor_asym_usl_mean vs run
χ² / ndf 78.07 / 84
p0 4314 ± 1216
pull
Entries 85
Mean 419.3
Std Dev 0

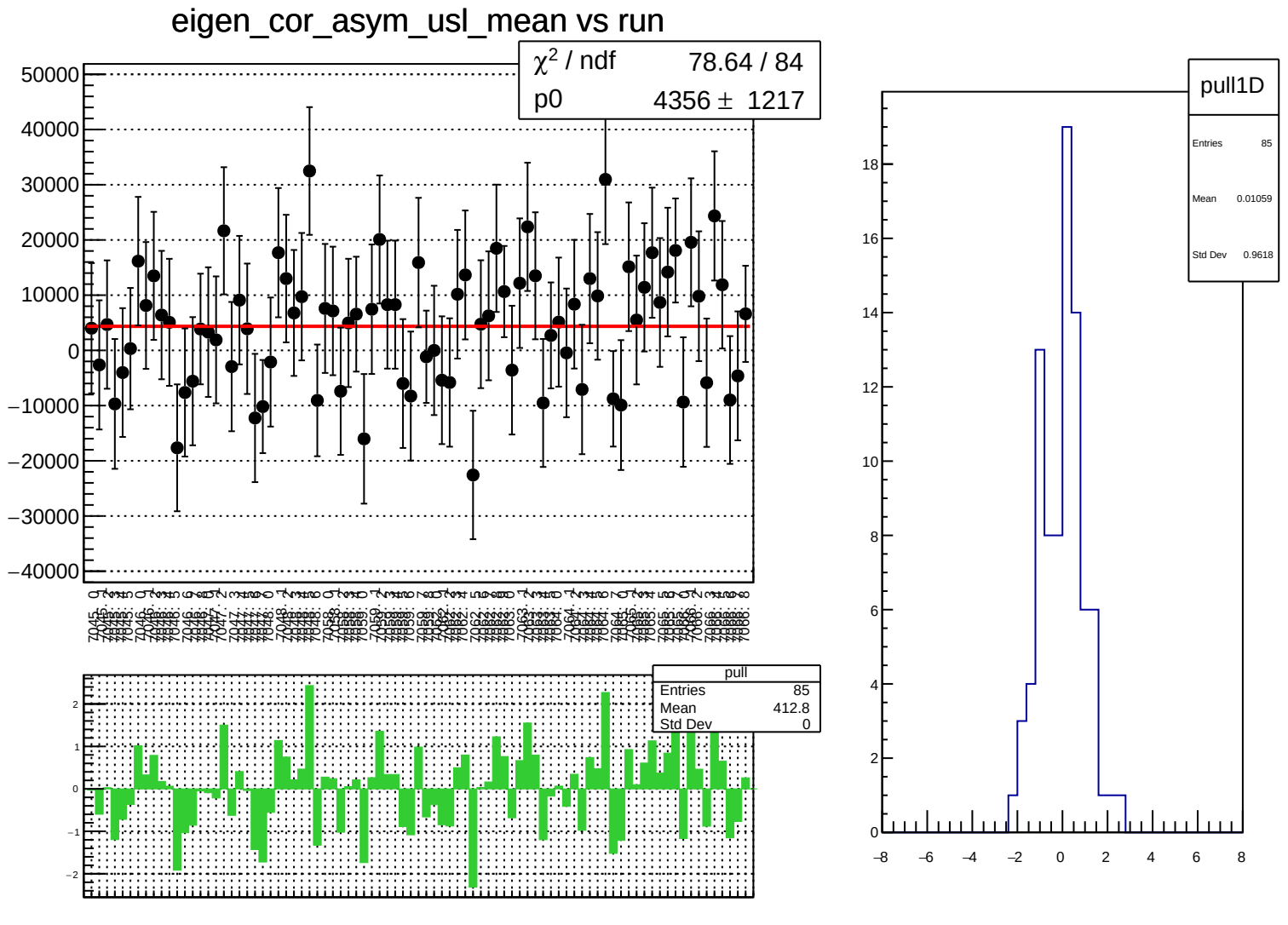

pull1D
Entries 85
Mean 0.0107
Std Dev 0.9583

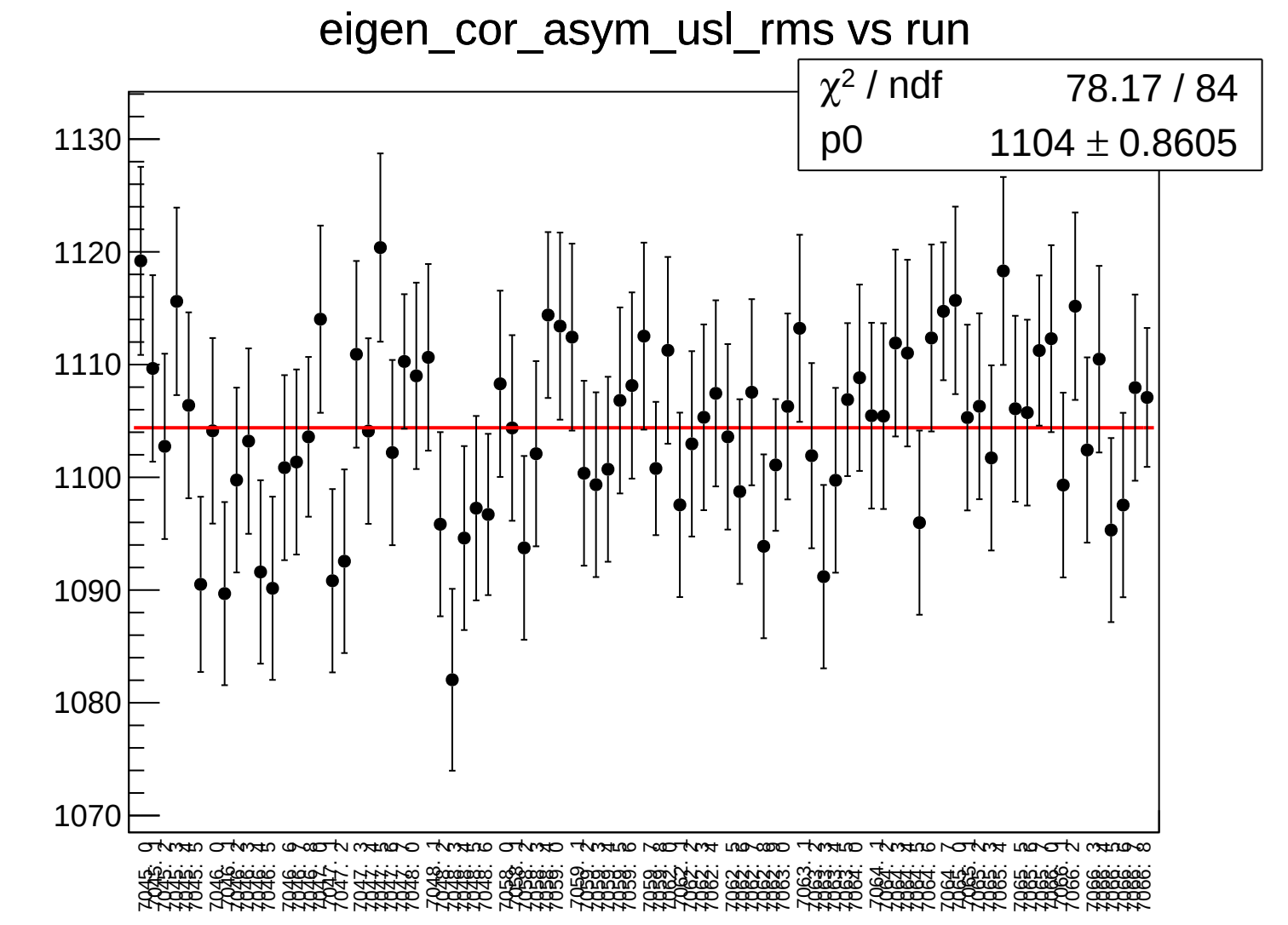

overload_cor_asym_usl_rms vs run
χ^2 / ndf 79.96 / 84
p0 1103 ± 0.8598
1130
1120
1110
1100
1090
1080
1070

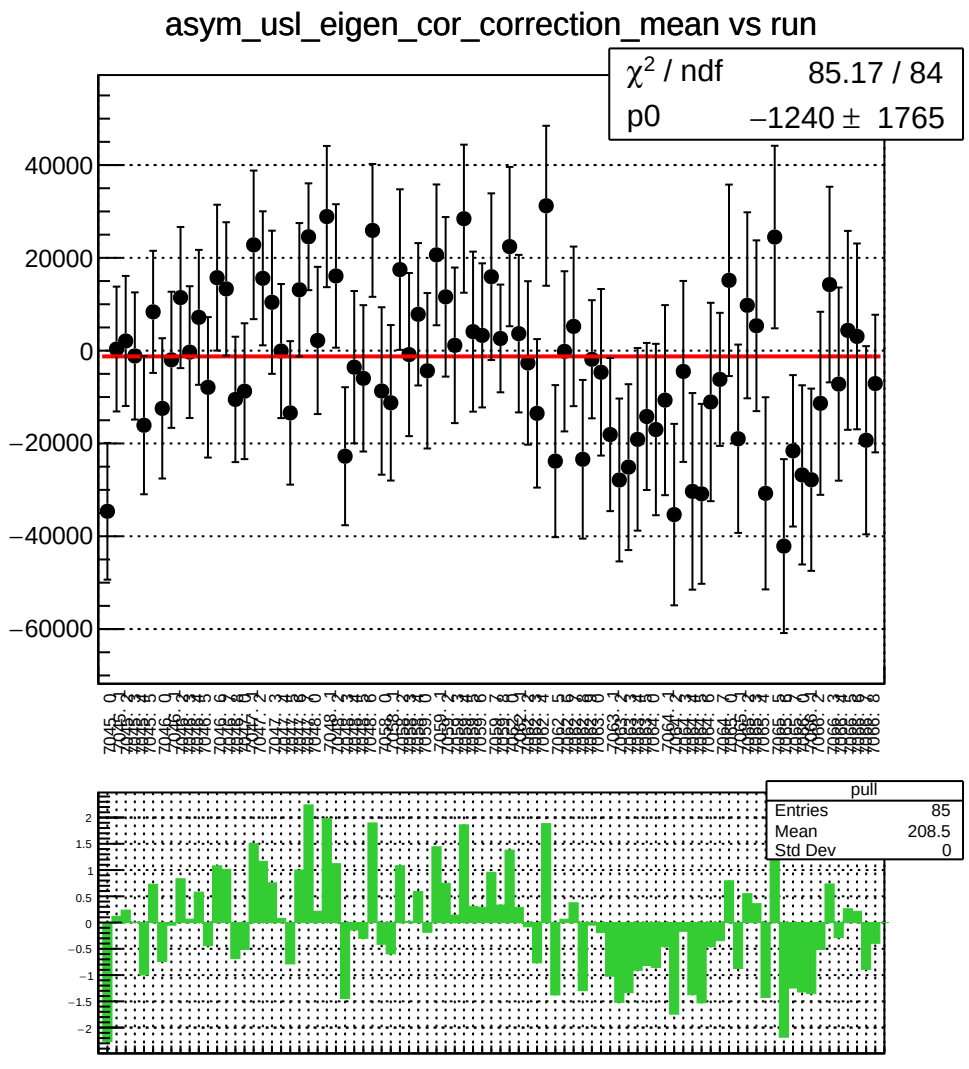

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 84.85 / 84
p0 −1292 ± 1766
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 208.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

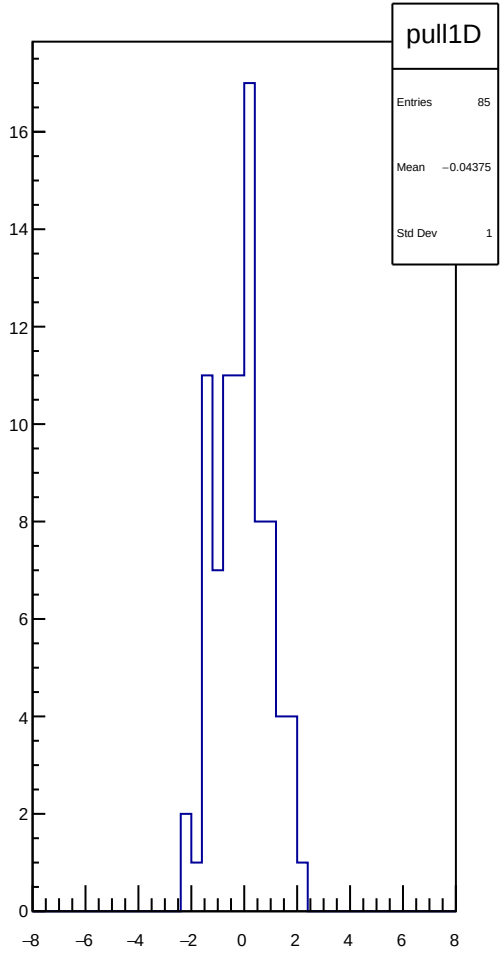

pull1D
Entries 85
Mean −0.04339
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

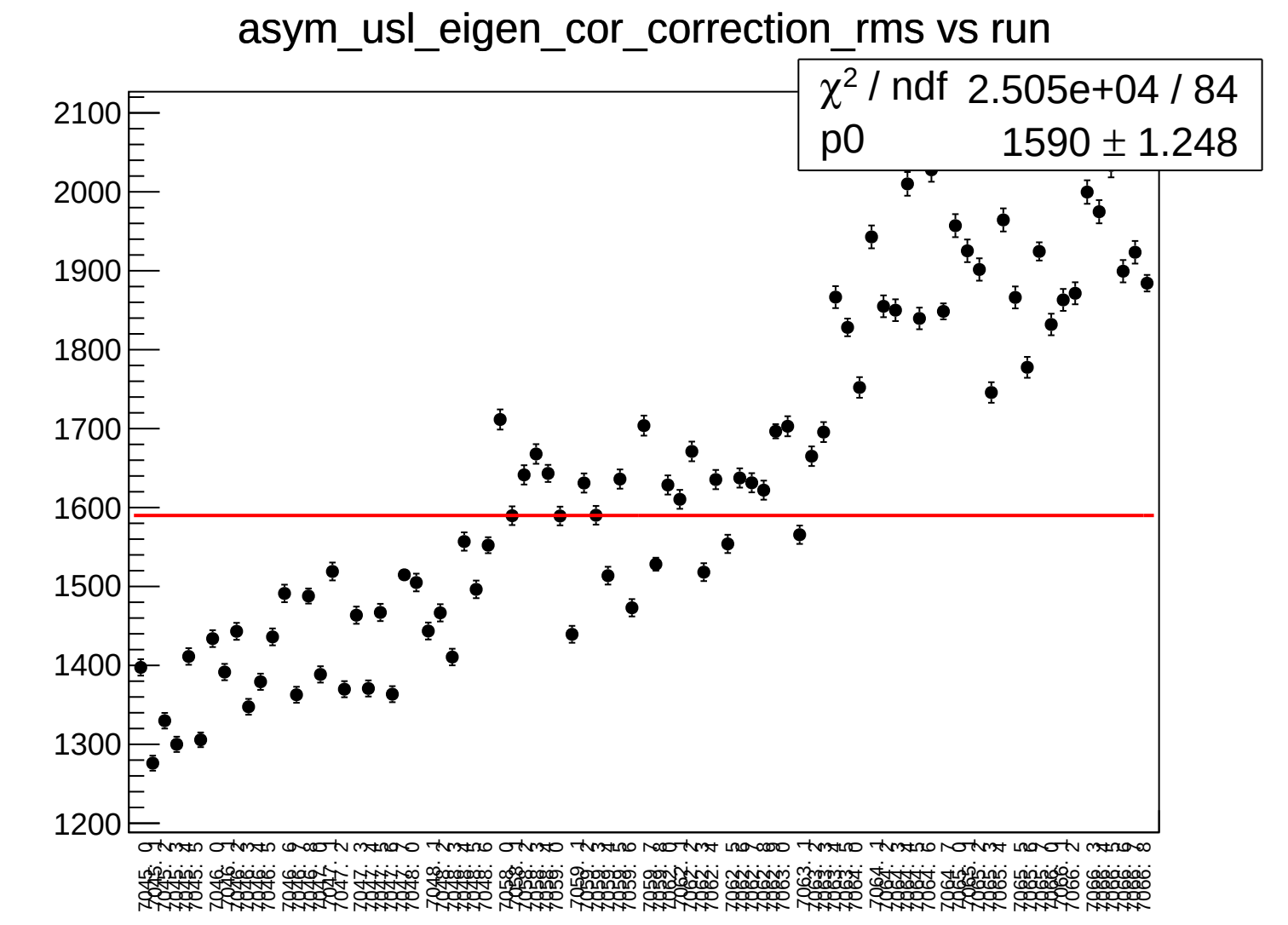

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2.5e+04 / 84
p0 1591 ± 1.249
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

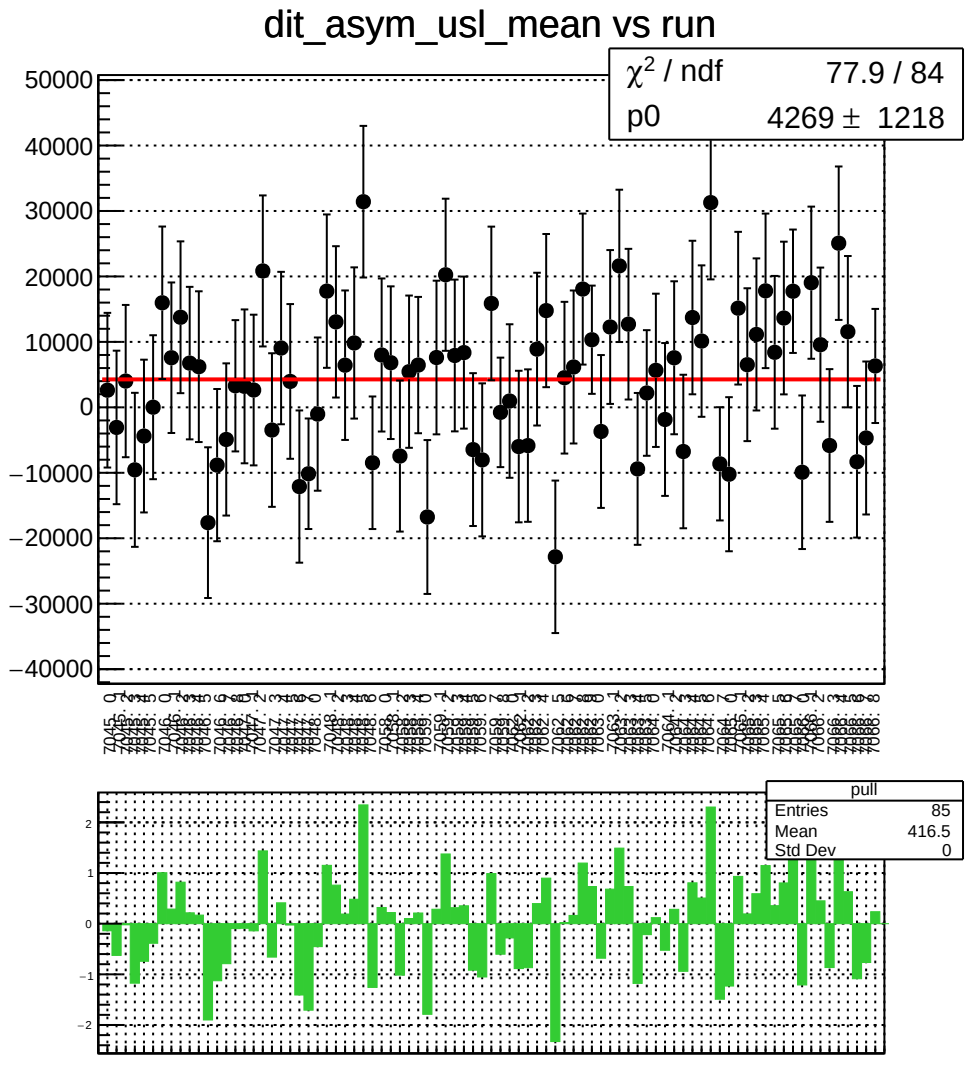

eigen_cor_asym_usl_mean vs run
χ² / ndf 78.64 / 84
p0 4356 ± 1217
pull
Entries 85
Mean 412.8
Std Dev 0
pull1D
Entries 85
Mean 0.01059
Std Dev 0.9618

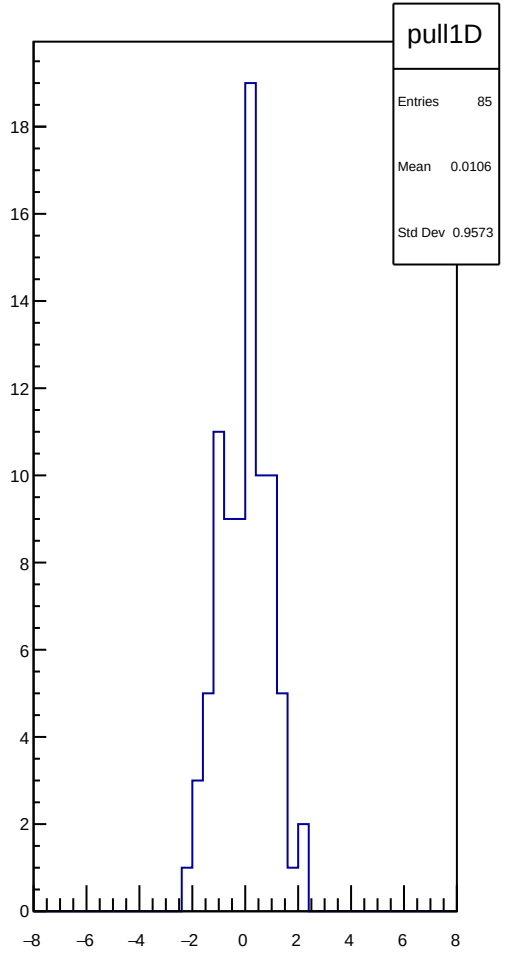

eigen_cor_asym_usl_rms vs run
χ^2 / ndf 78.17 / 84
p0 1104 ± 0.8605
1130
1120
1110
1100
1090
1080
1070

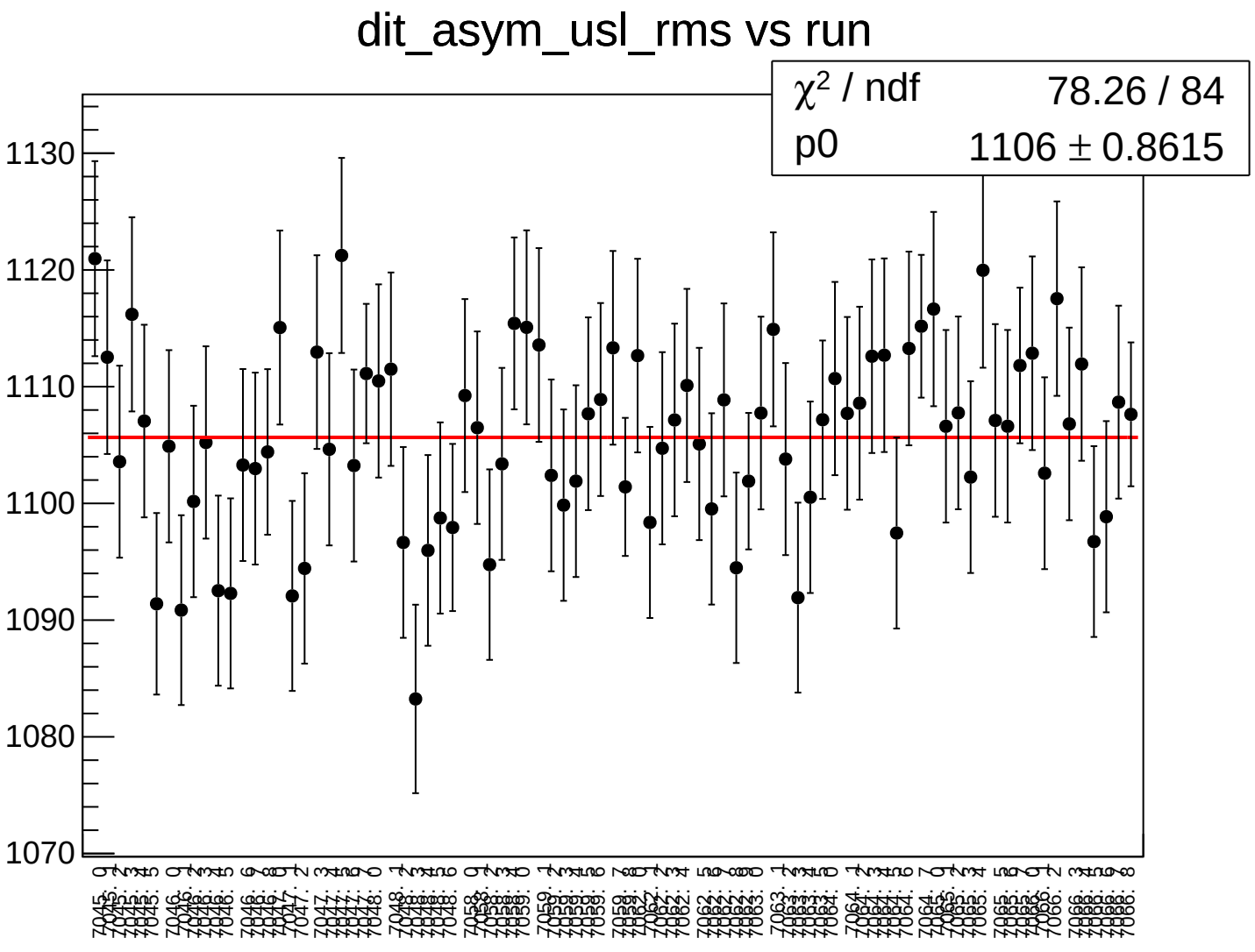

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 85.17 / 84
p0 −1240 ± 1765
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 208.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

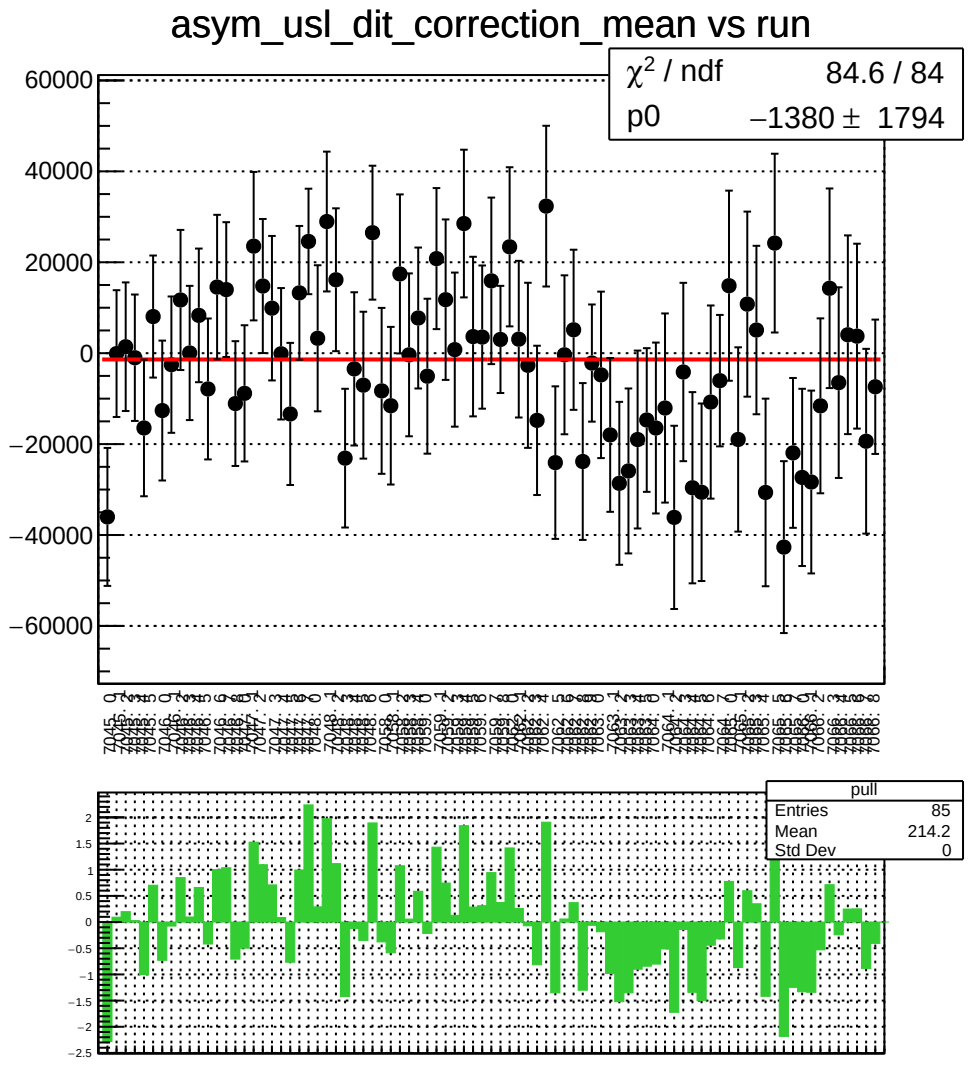

pull1D
Entries 85
Mean −0.04375
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

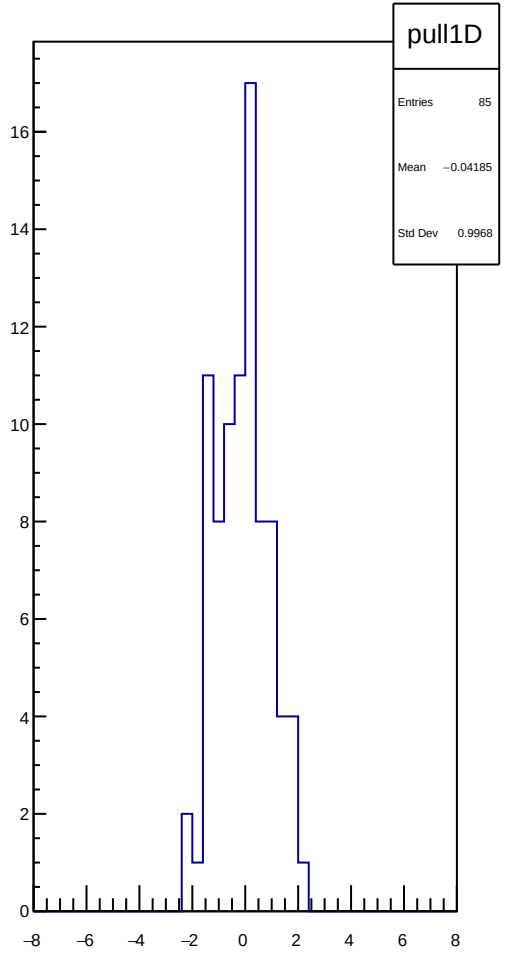

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2.505e+04 / 84
p0 1590 ± 1.248
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

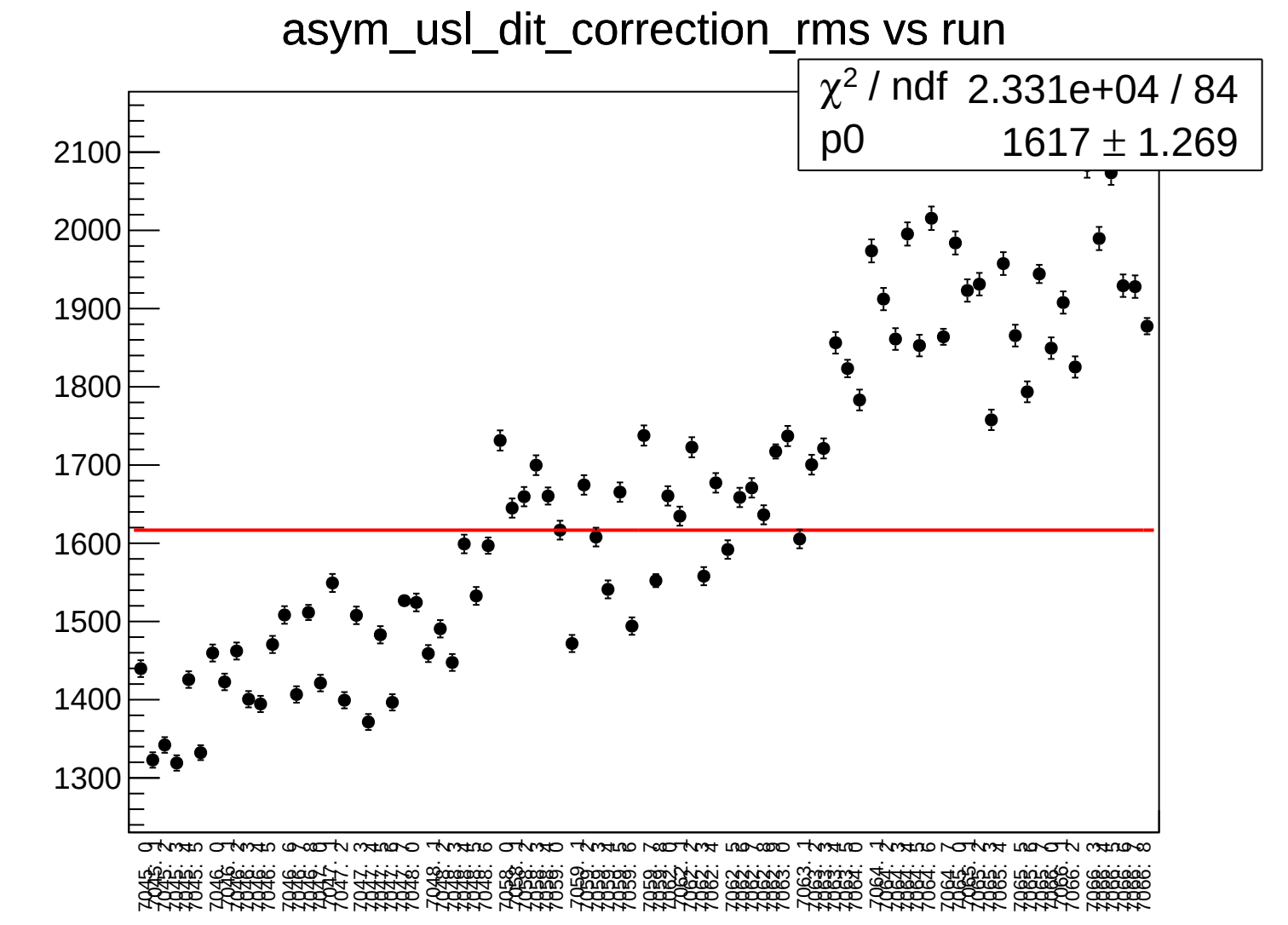

dit_asym_usl_mean vs run
χ² / ndf 77.9 / 84
p0 4269 ± 1218
pull
Entries 85
Mean 416.5
Std Dev 0

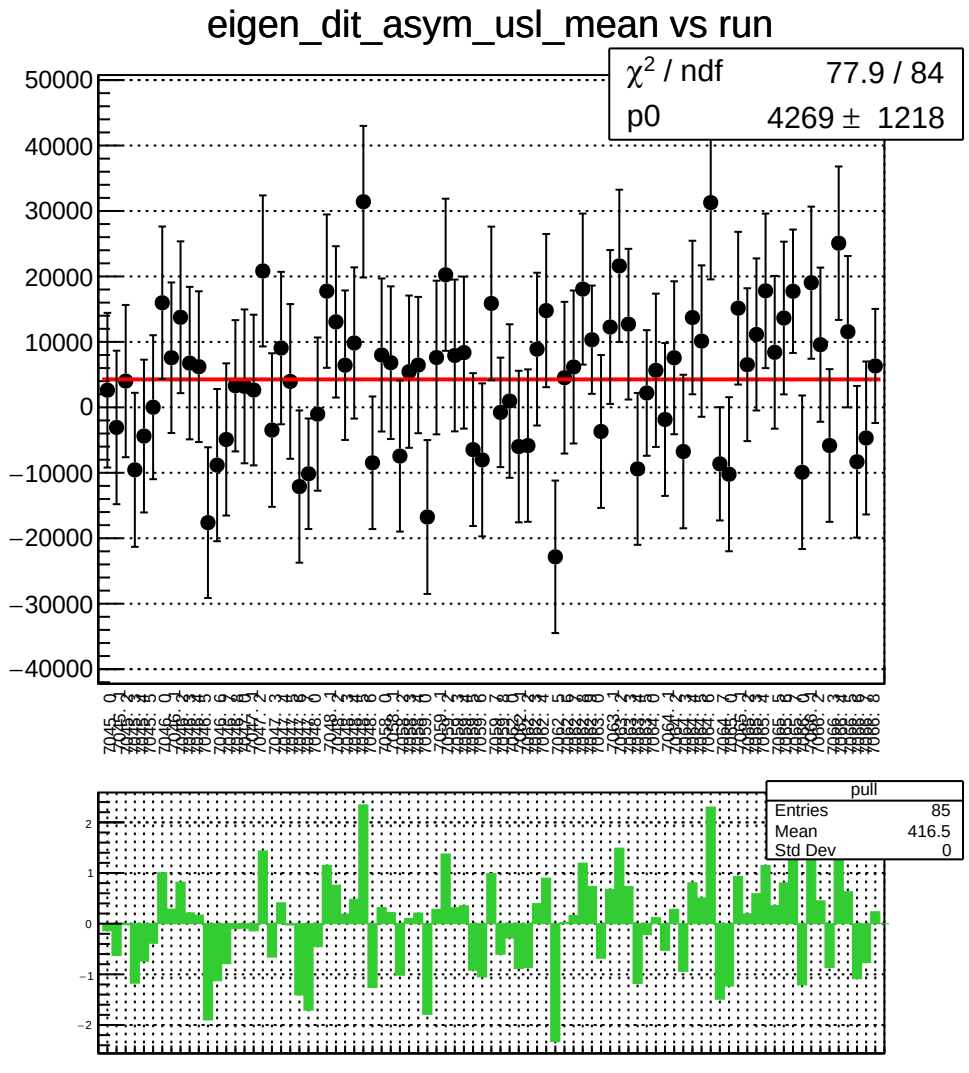

pull1D
Entries 85
Mean 0.0106
Std Dev 0.9573

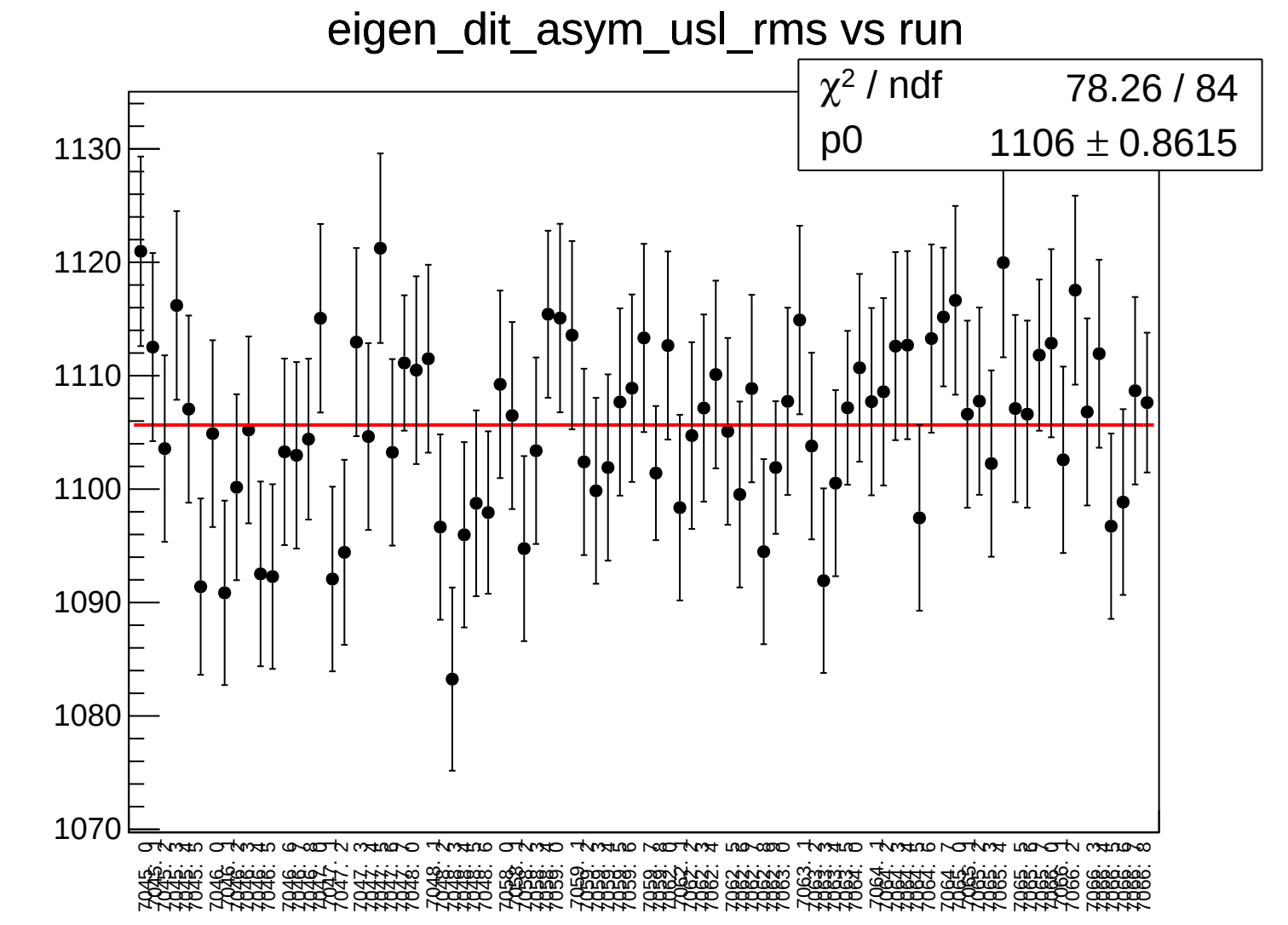

dit_asym_usl_rms vs run
χ^2 / ndf 78.26 / 84
p0 1106 ± 0.8615
1130
1120
1110
1100
1090
1080
1070

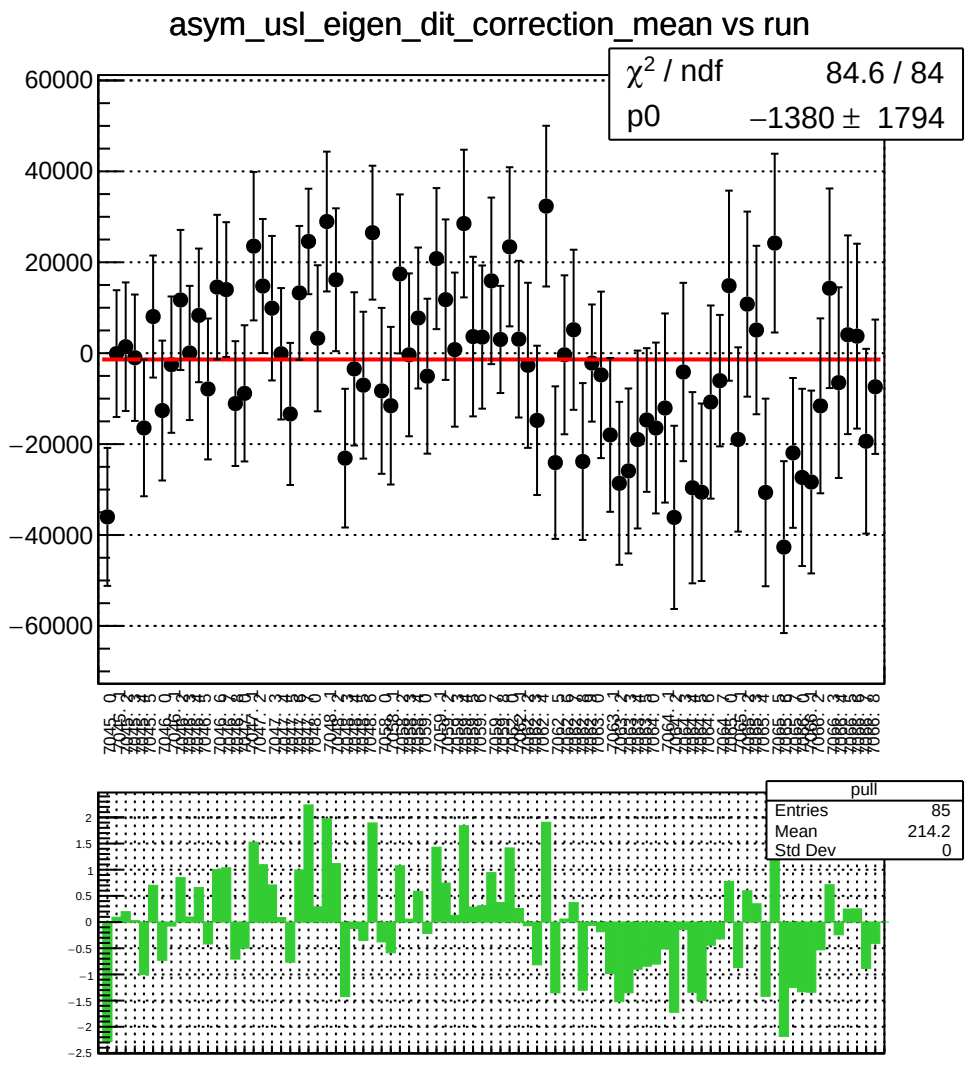

asym_usl_dit_correction_mean vs run
χ² / ndf 84.6 / 84
p0 −1380 ± 1794
pull
Entries 85
Mean 214.2
Std Dev 0

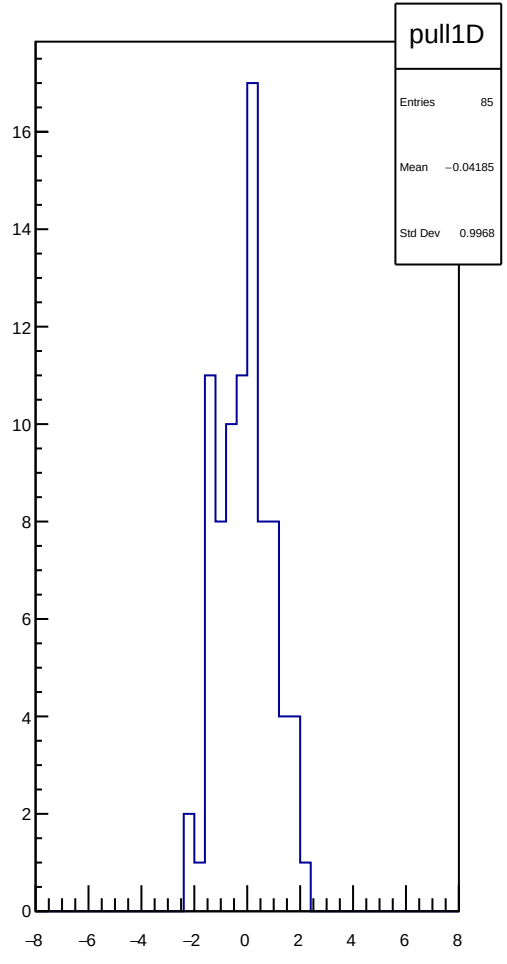

pull1D
Entries 85
Mean −0.04185
Std Dev 0.9968

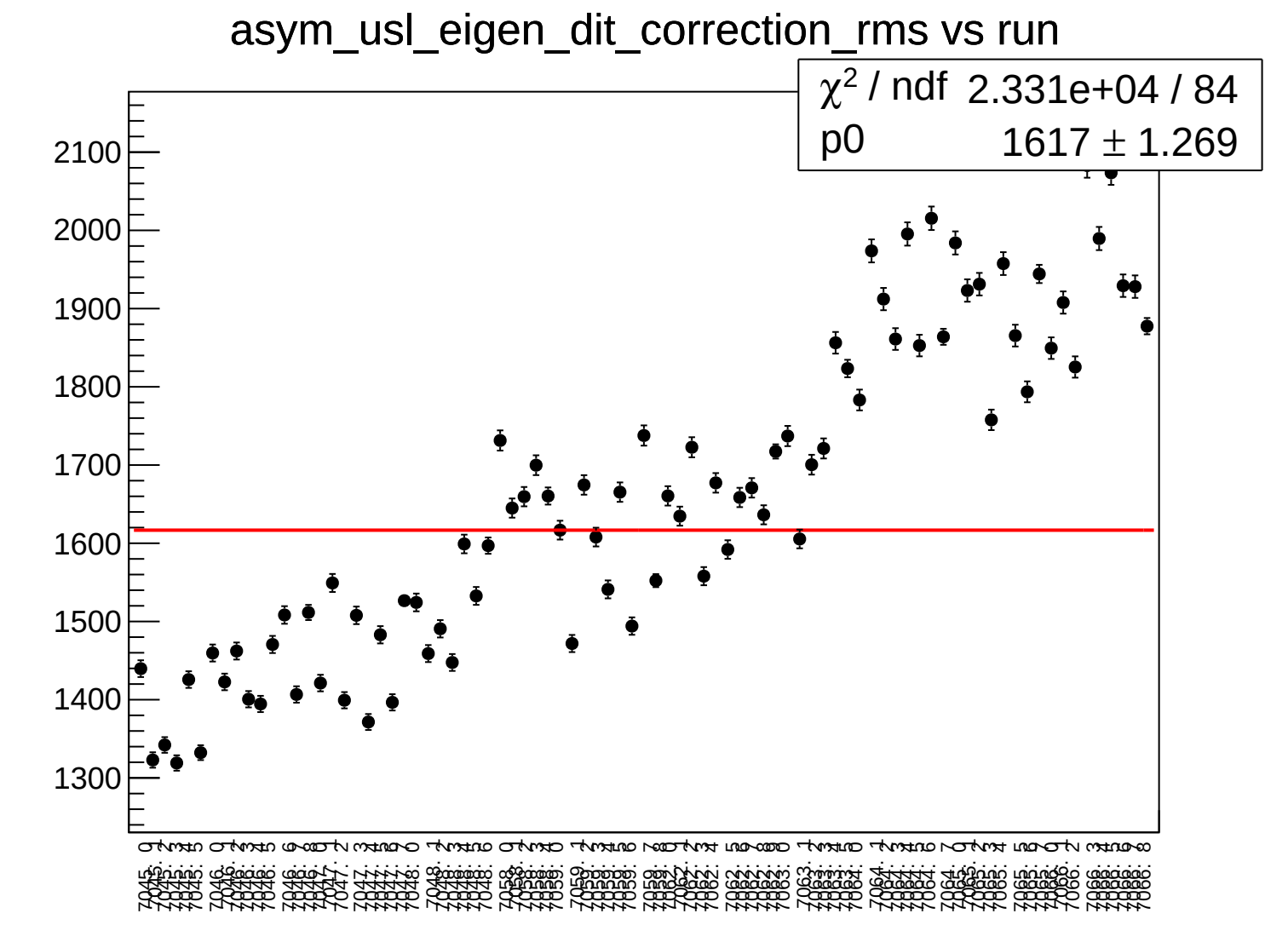

asym_usl_dit_correction_rms vs run
χ² / ndf 2.331e+04 / 84
p0 1617 ± 1.269
2100
2000
1900
1800
1700
1600
1500
1400
1300

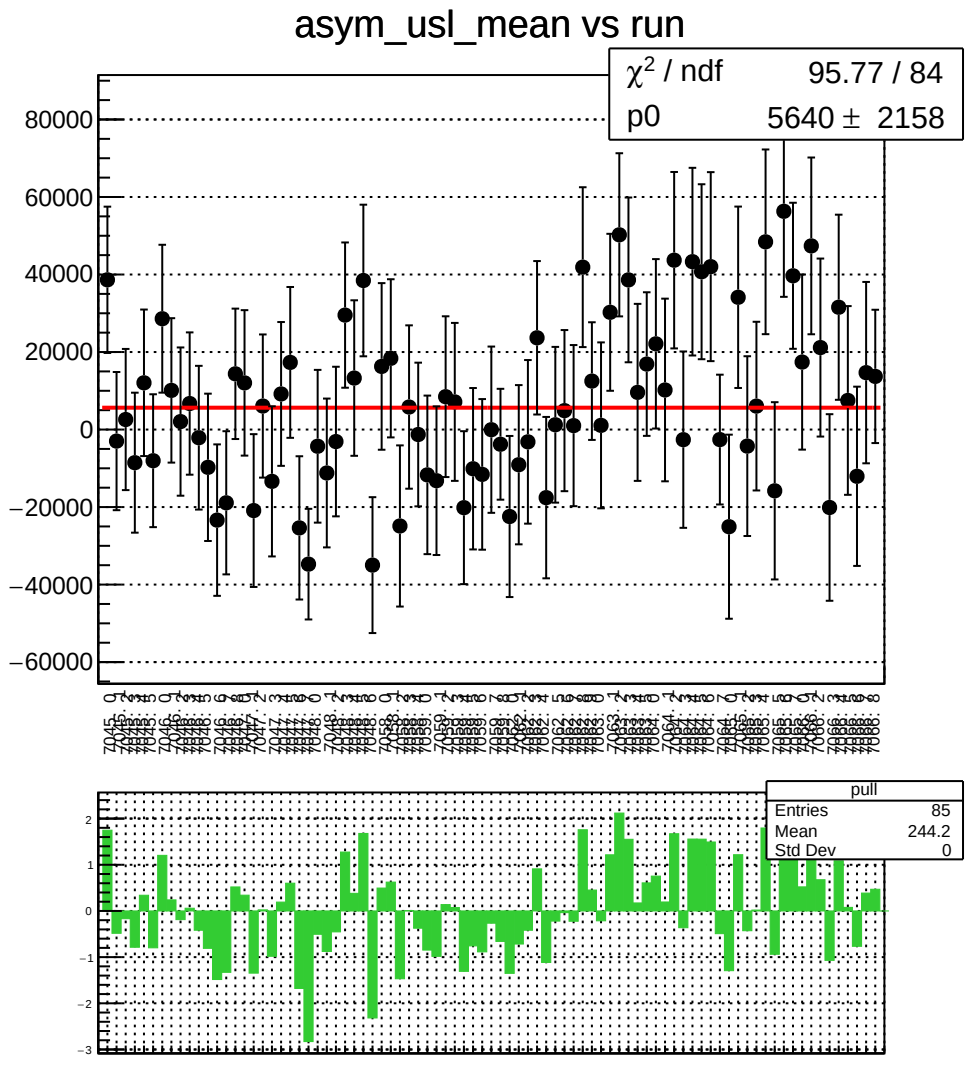

eigen_dit_asym_usl_mean vs run
χ² / ndf 77.9 / 84
p0 4269 ± 1218
pull
Entries 85
Mean 416.5
Std Dev 0
pull1D
Entries 85
Mean 0.0106
Std Dev 0.9573

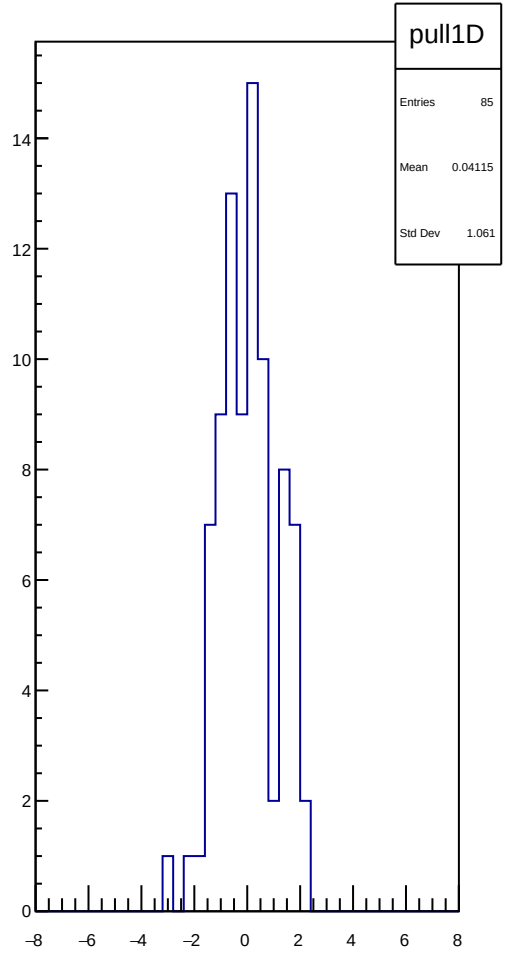

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 78.26 / 84
p0 1106 ± 0.8615
1130
1120
1110
1100
1090
1080
1070

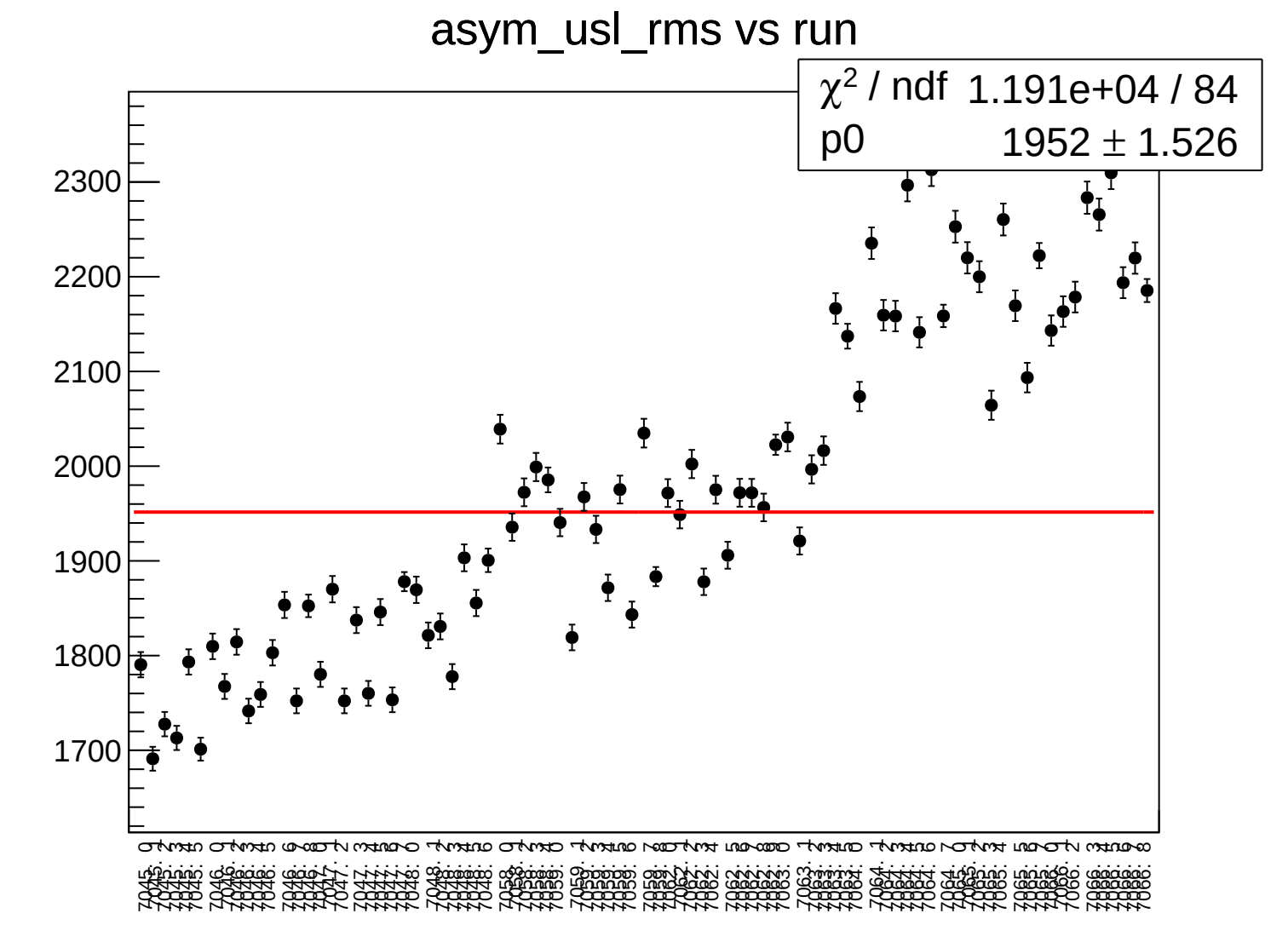

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 84.6 / 84
p0 −1380 ± 1794
pull
Entries 85
Mean 214.2
Std Dev 0

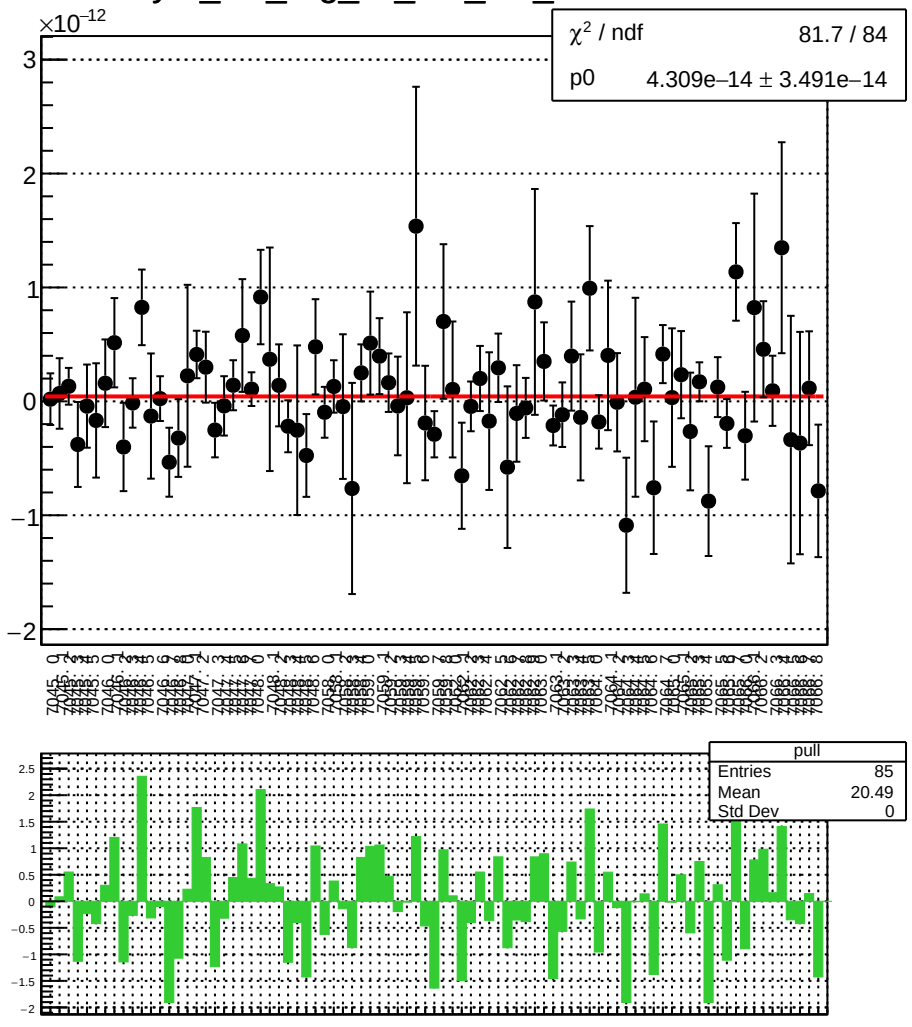

pull1D
Entries 85
Mean −0.04185
Std Dev 0.9968

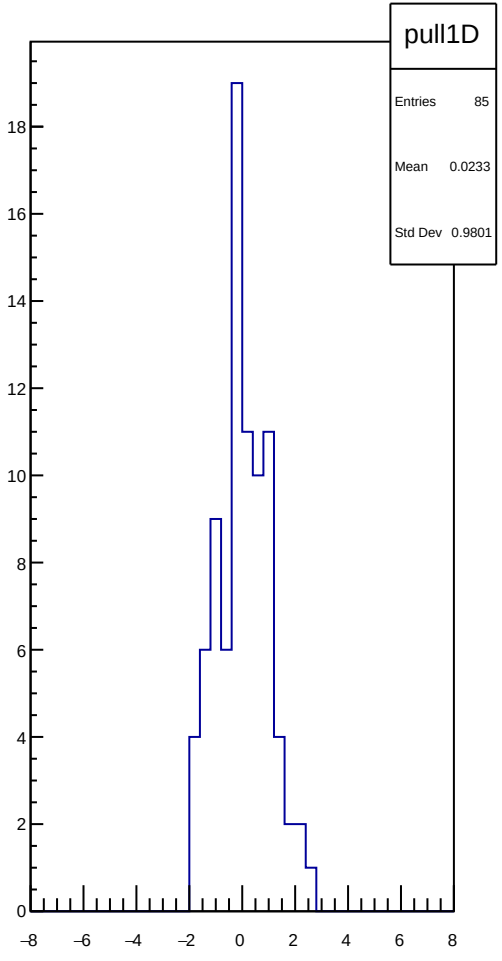

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2.331e+04 / 84
p0 1617 ± 1.269
2100
2000
1900
1800
1700
1600
1500
1400
1300

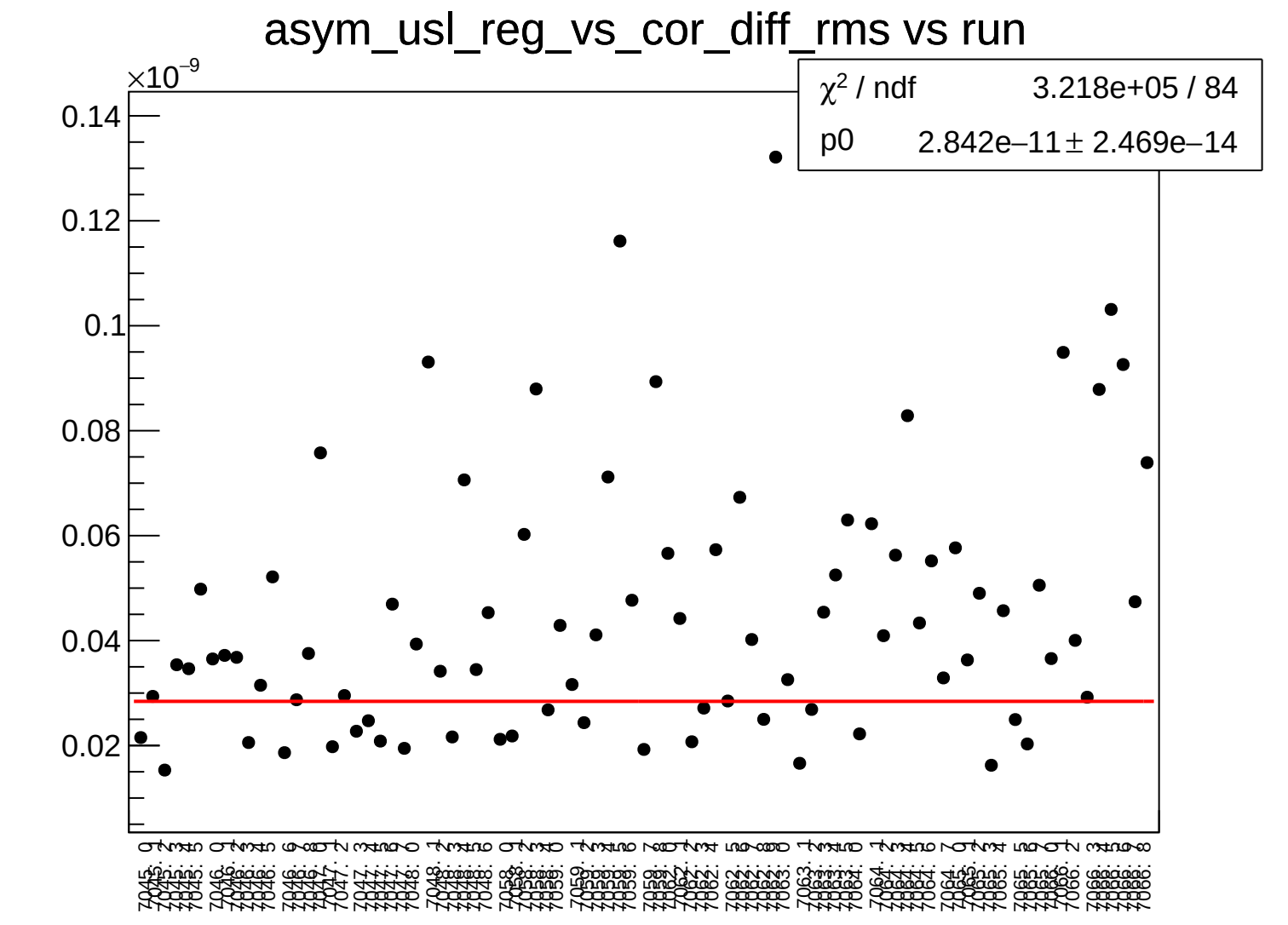

asym_usl_mean vs run
χ² / ndf 95.77 / 84
p0 5640 ± 2158
pull
Entries 85
Mean 244.2
Std Dev 0

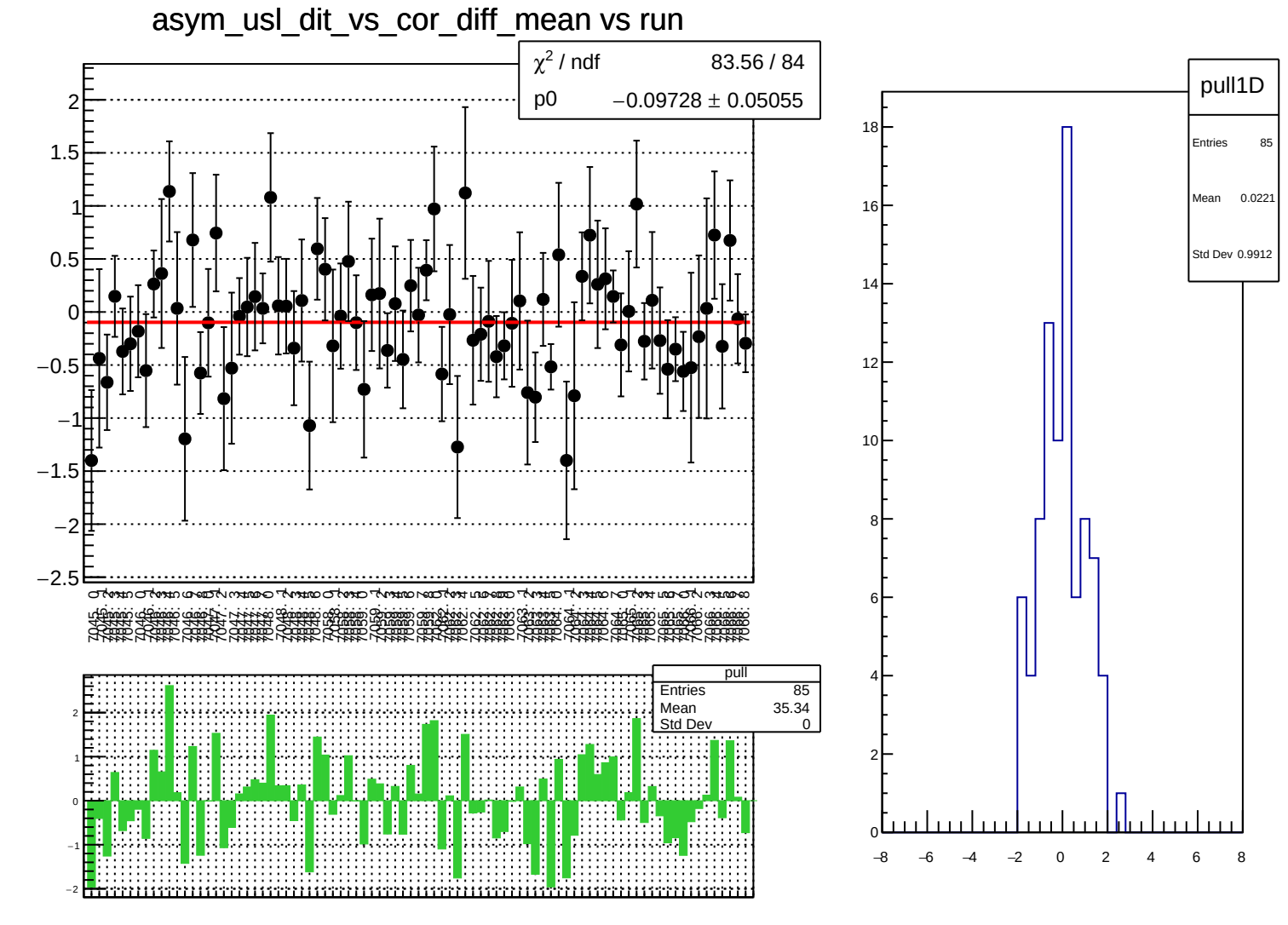

pull1D
Entries 85
Mean 0.04115
Std Dev 1.061

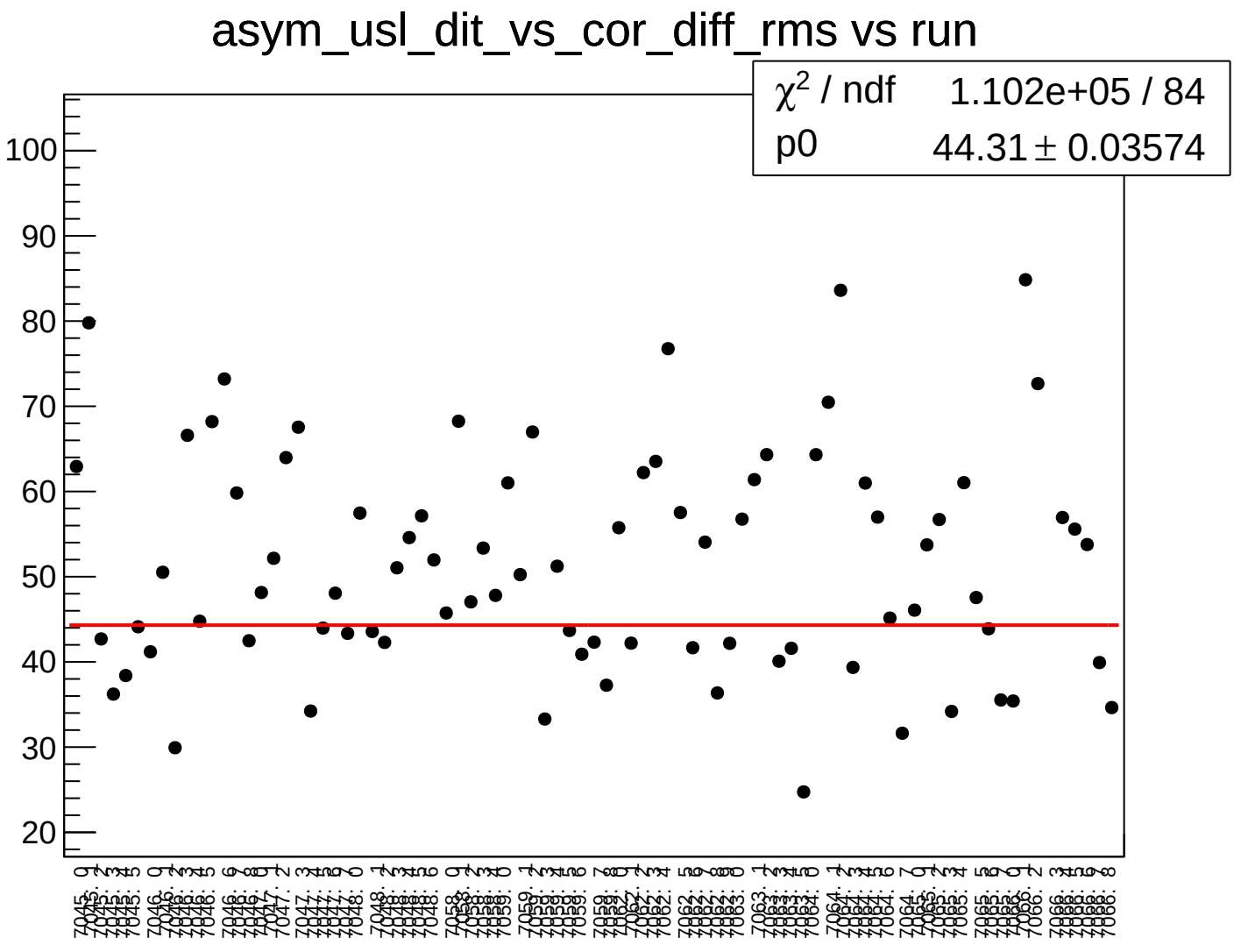

asym_usl_rms vs run
χ² / ndf 1.191e+04 / 84
p0 1952 ± 1.526
2300
2200
2100
2000
1900
1800
1700

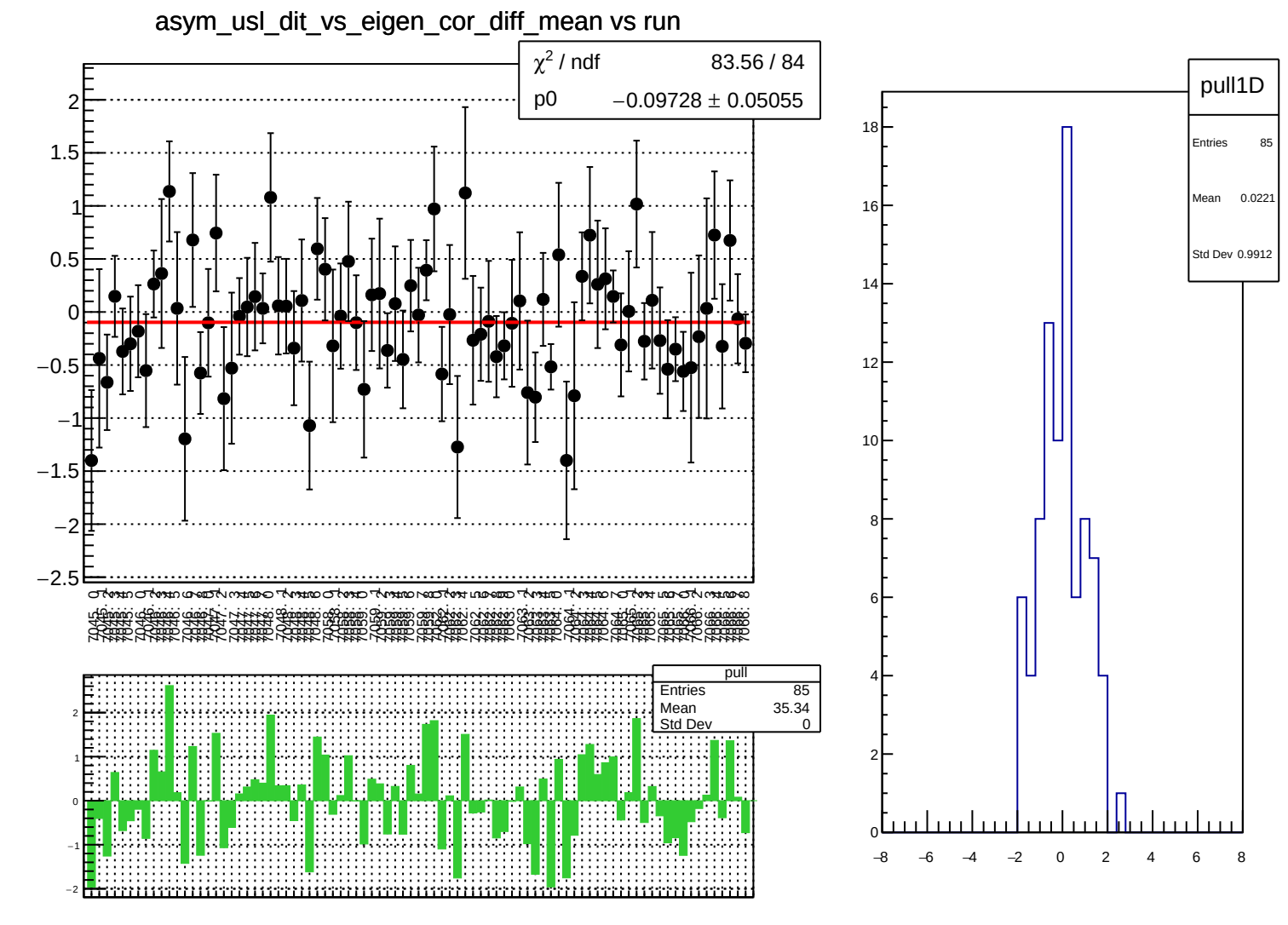

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.7 / 84
p0 4.309e−14 ± 3.491e−14
pull
Entries 85
Mean 20.49
Std Dev 0

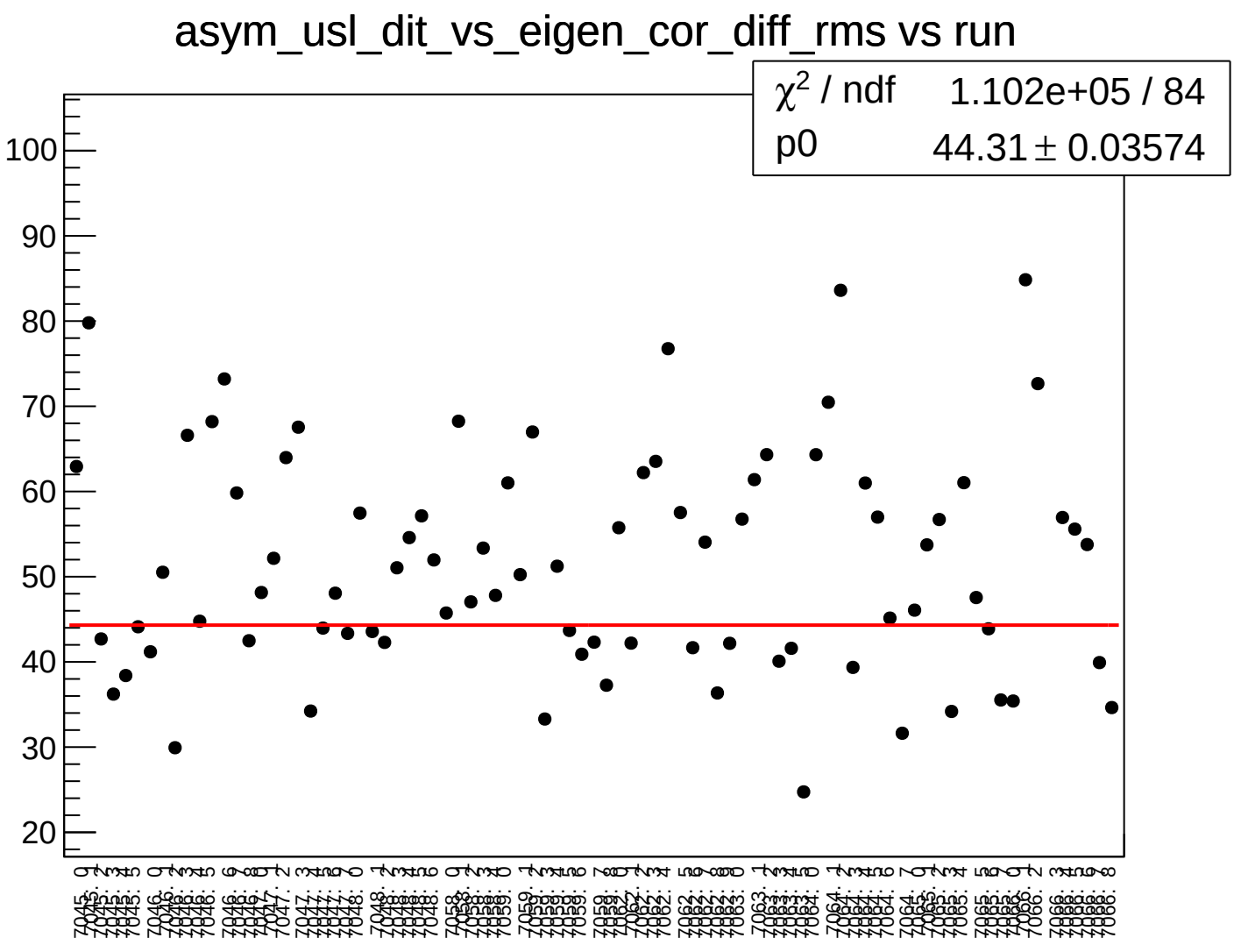

pull1D
Entries 85
Mean 0.0233
Std Dev 0.9801

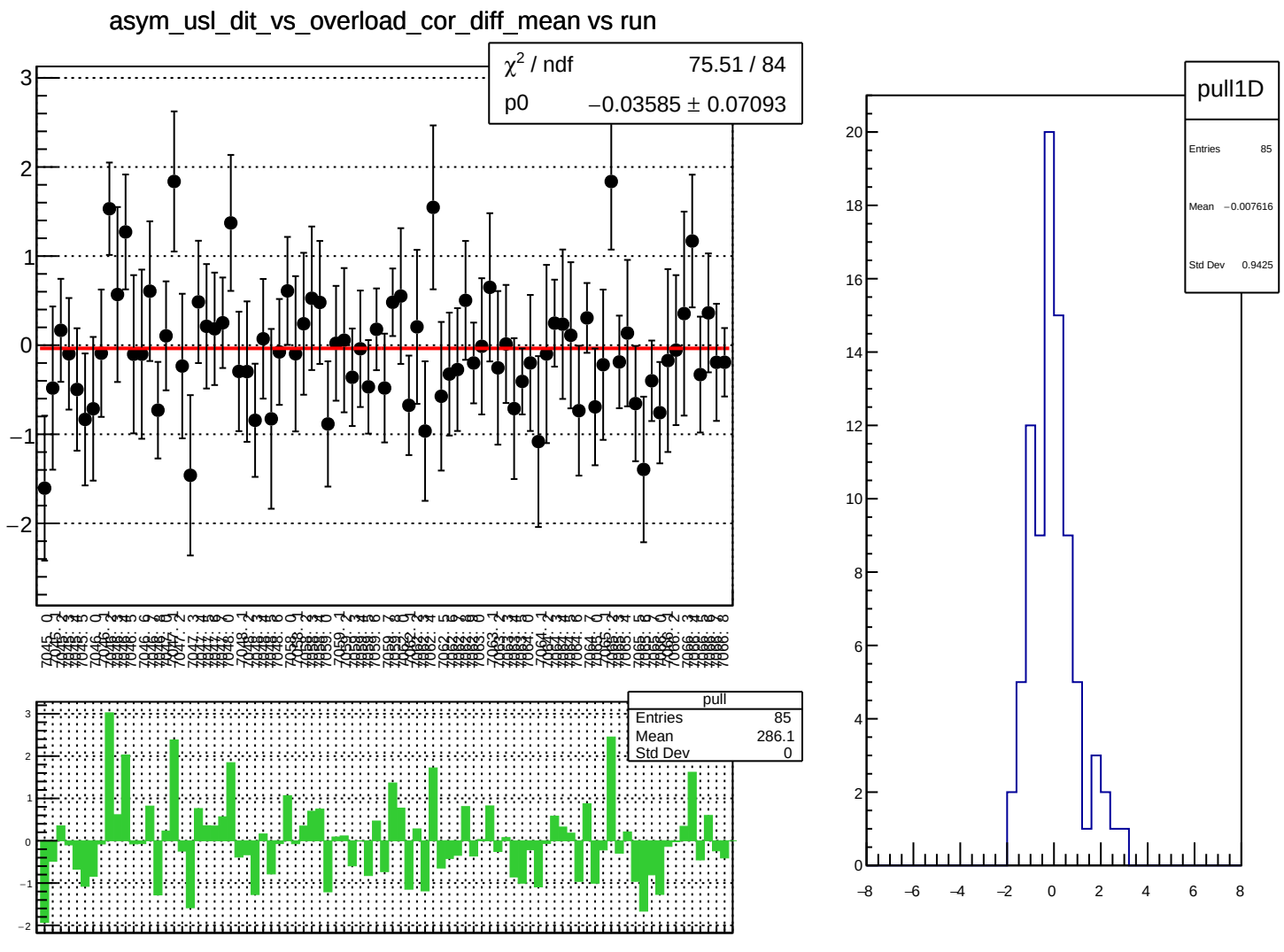

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.218e+05 / 84
p0 2.842e−11 ± 2.469e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

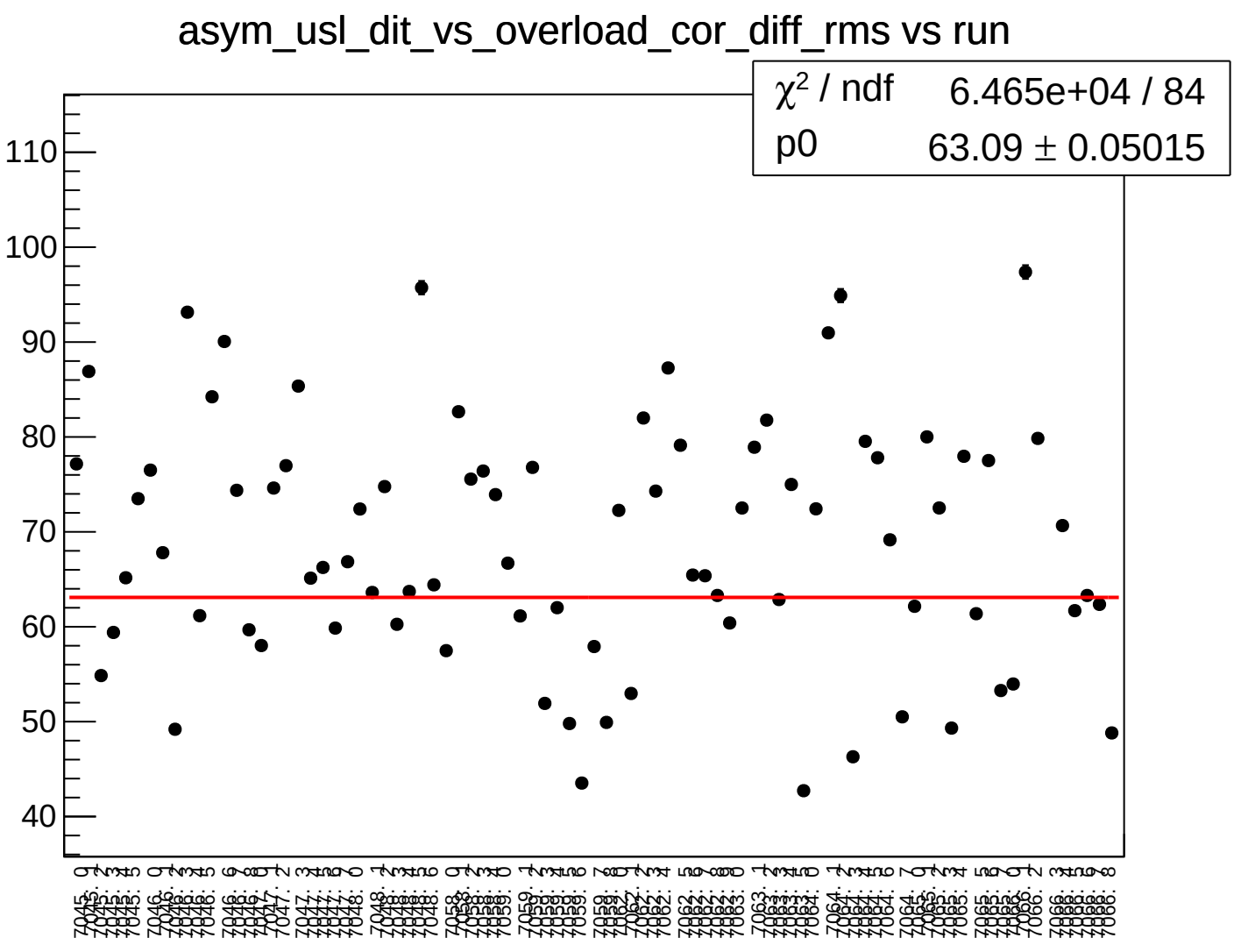

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 83.56 / 84
p0 −0.09728 ± 0.05055
pull
Entries 85
Mean 35.34
Std Dev 0
pull1D
Entries 85
Mean 0.0221
Std Dev 0.9912

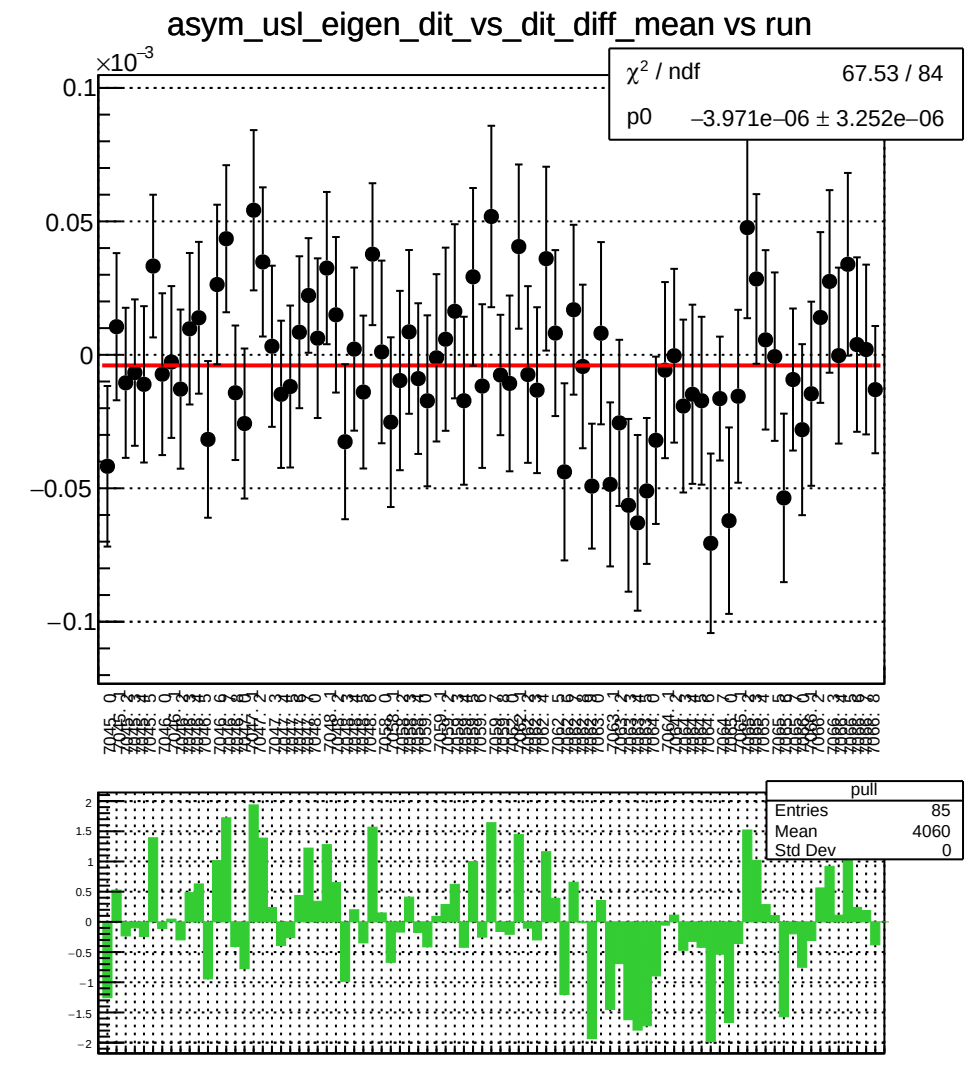

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.102e+05 / 84
p0 44.31 ± 0.03574
100
90
80
70
60
50
40
30
20

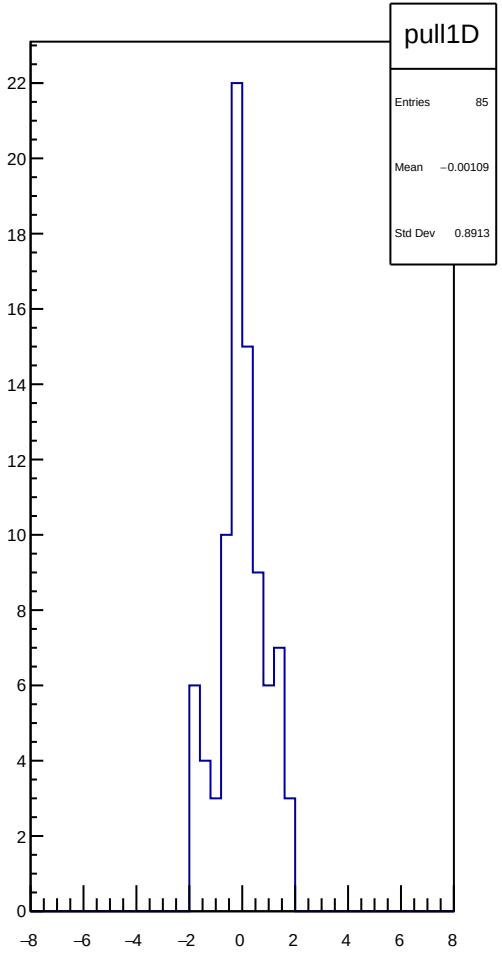

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.56 / 84
p0 −0.09728 ± 0.05055
pull
Entries 85
Mean 35.34
Std Dev 0
pull1D
Entries 85
Mean 0.0221
Std Dev 0.9912

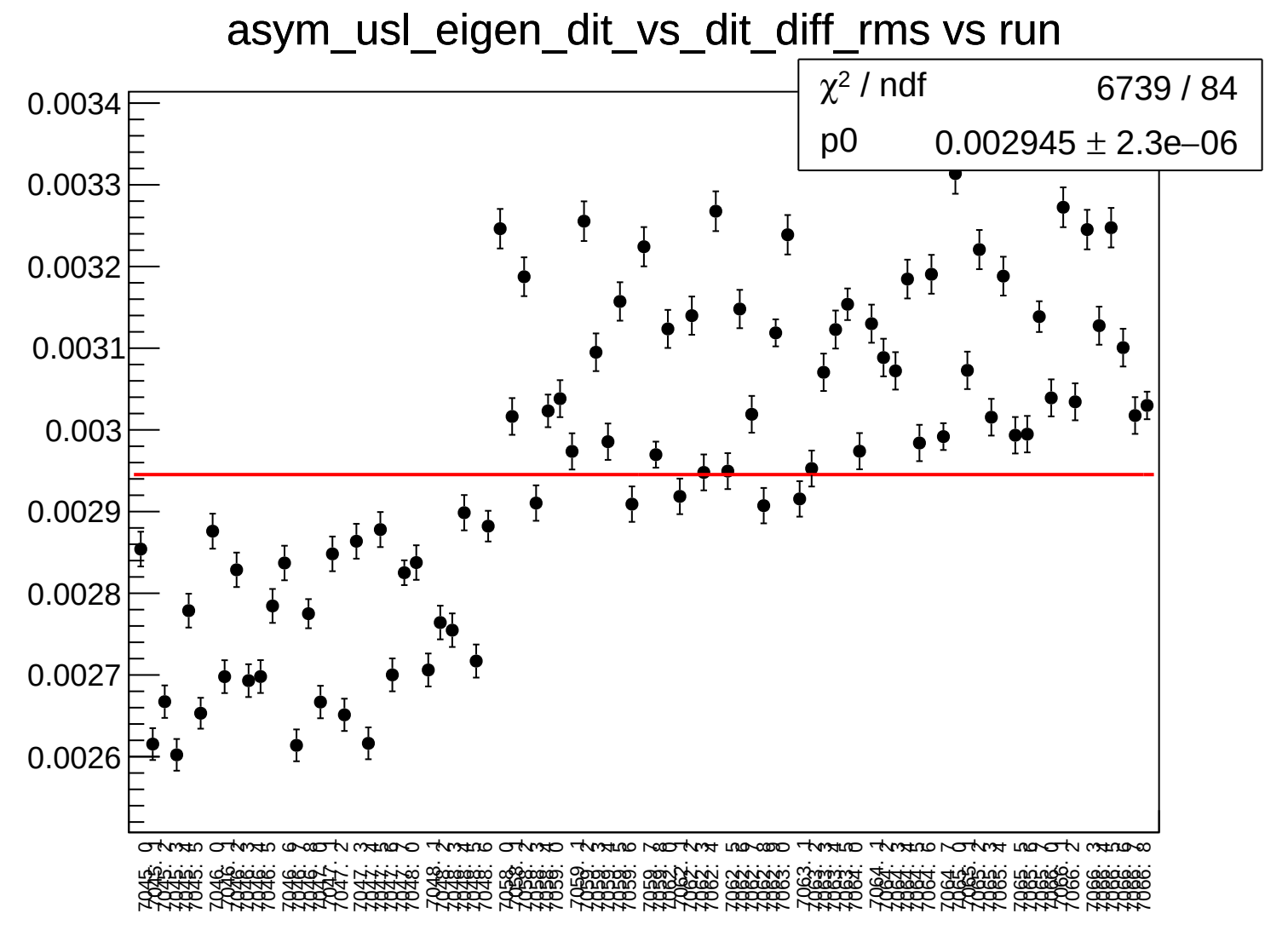

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 84
p0 44.31 ± 0.03574
100
90
80
70
60
50
40
30
20

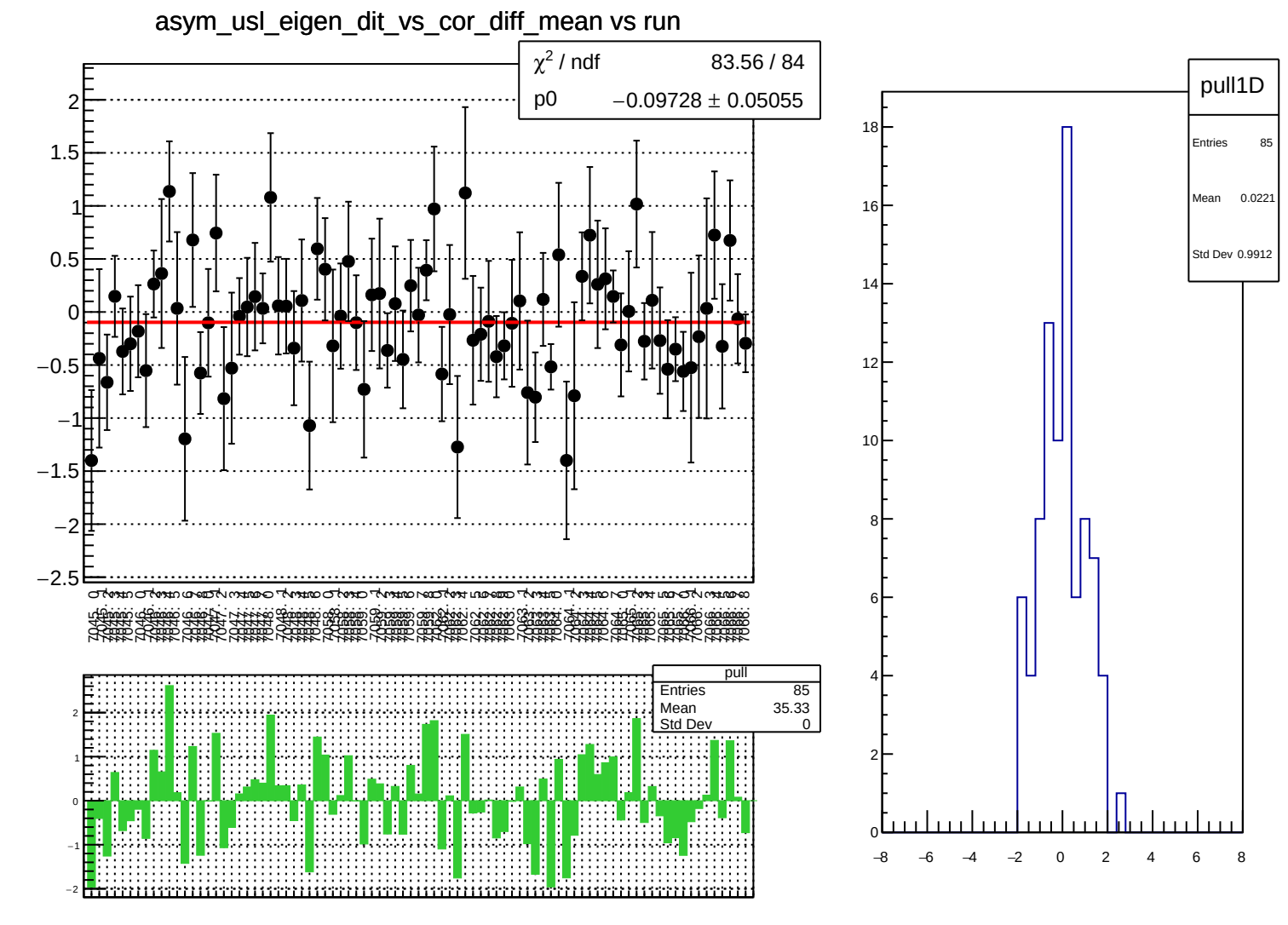

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 75.51 / 84
p0 −0.03585 ± 0.07093
pull
Entries 85
Mean 286.1
Std Dev 0
pull1D
Entries 85
Mean −0.007616
Std Dev 0.9425

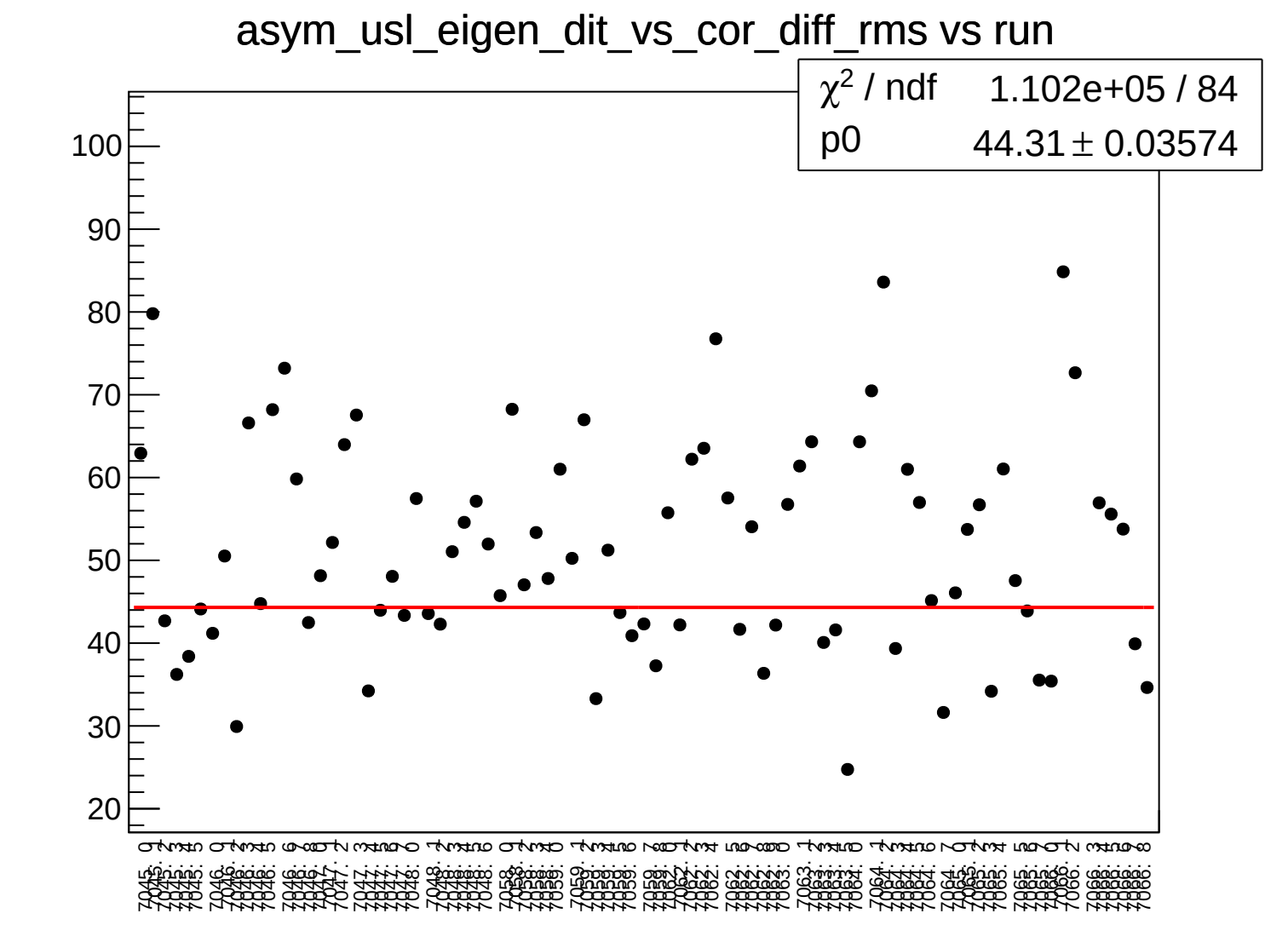

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.465e+04 / 84
p0 63.09 ± 0.05015
110
100
90
80
70
60
50
40

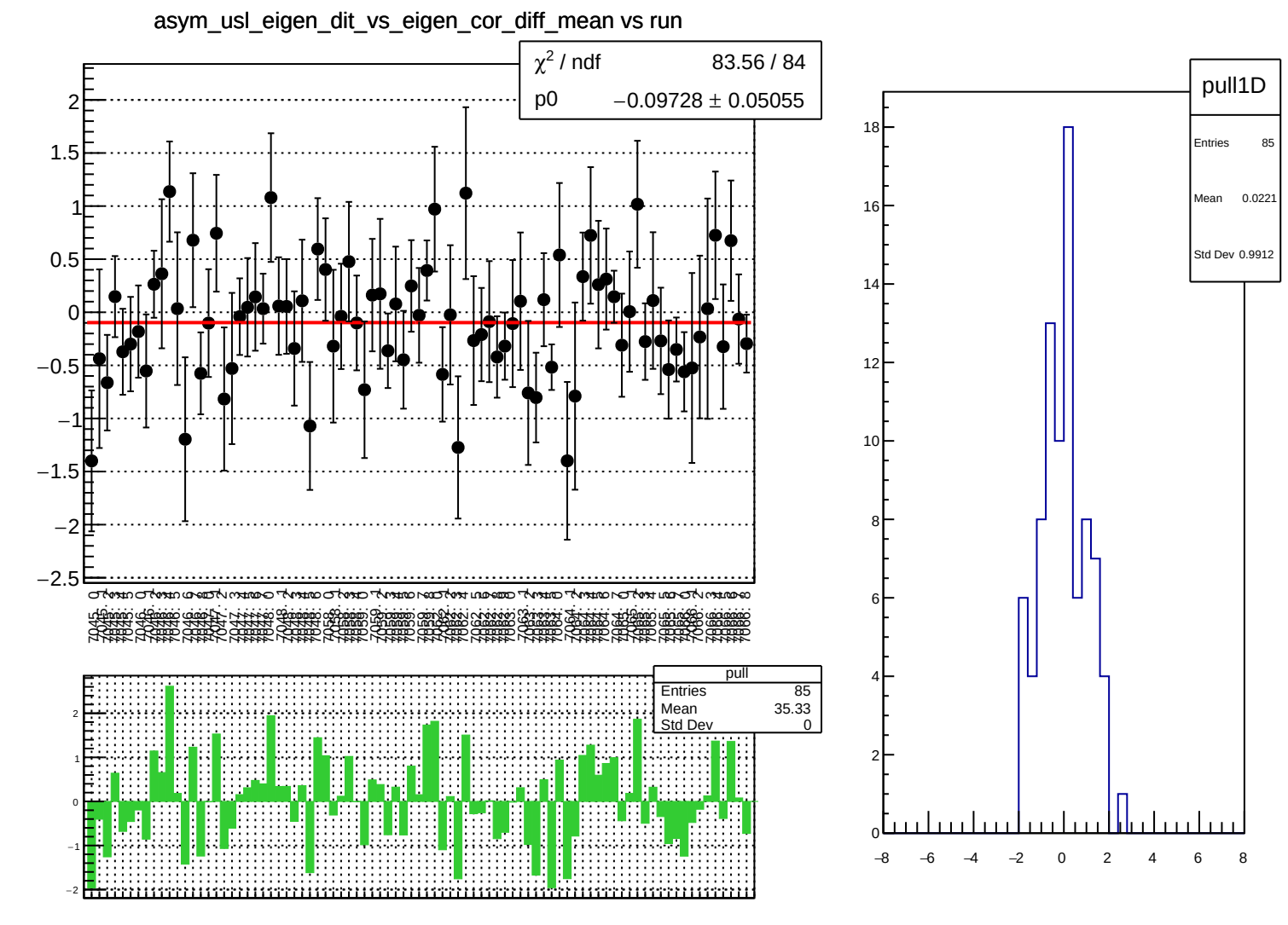

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 67.53 / 84
p0 −3.971e−06 ± 3.252e−06
pull
Entries 85
Mean 4060
Std Dev 0

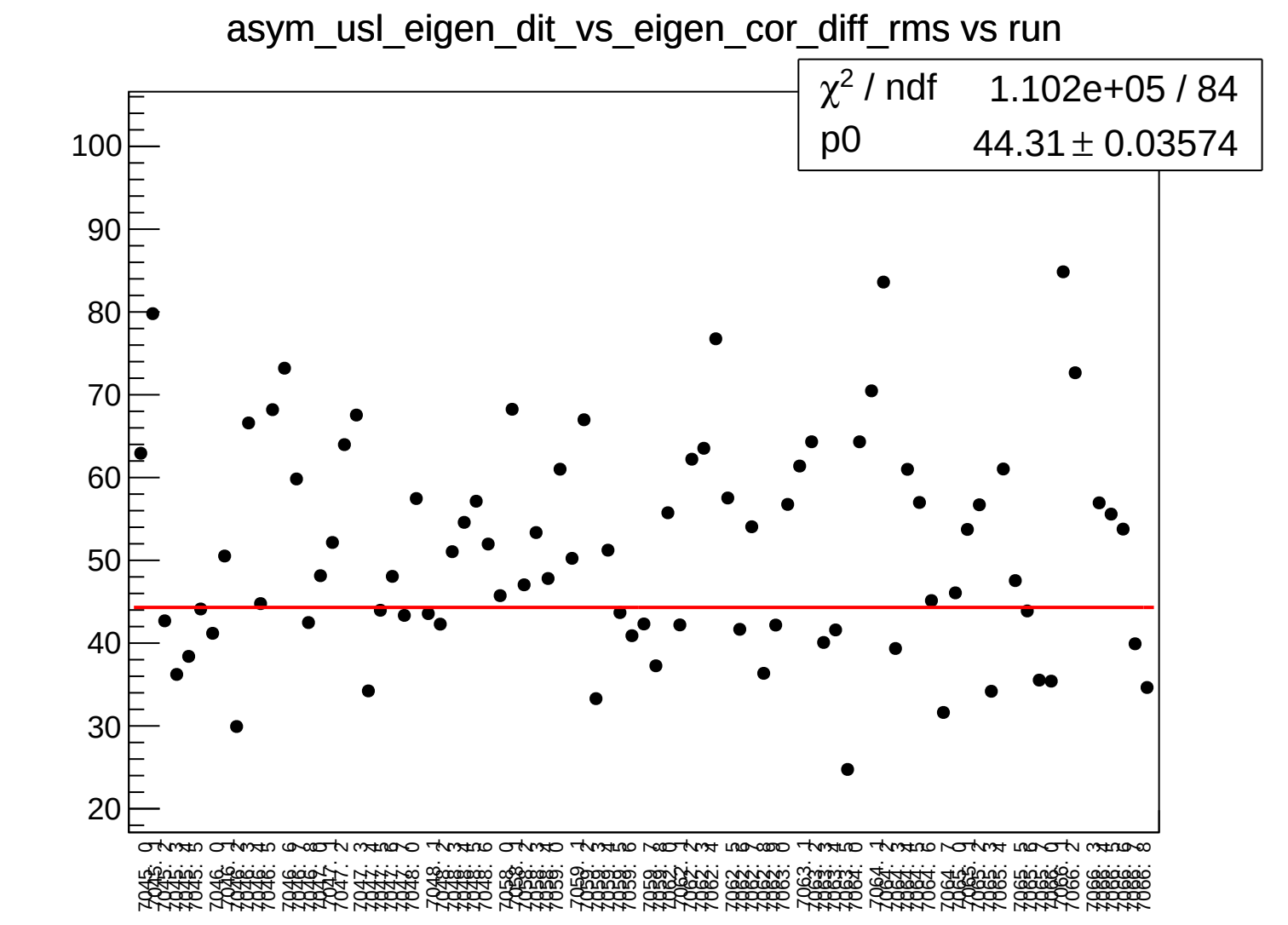

pull1D
Entries 85
Mean −0.00109
Std Dev 0.8913

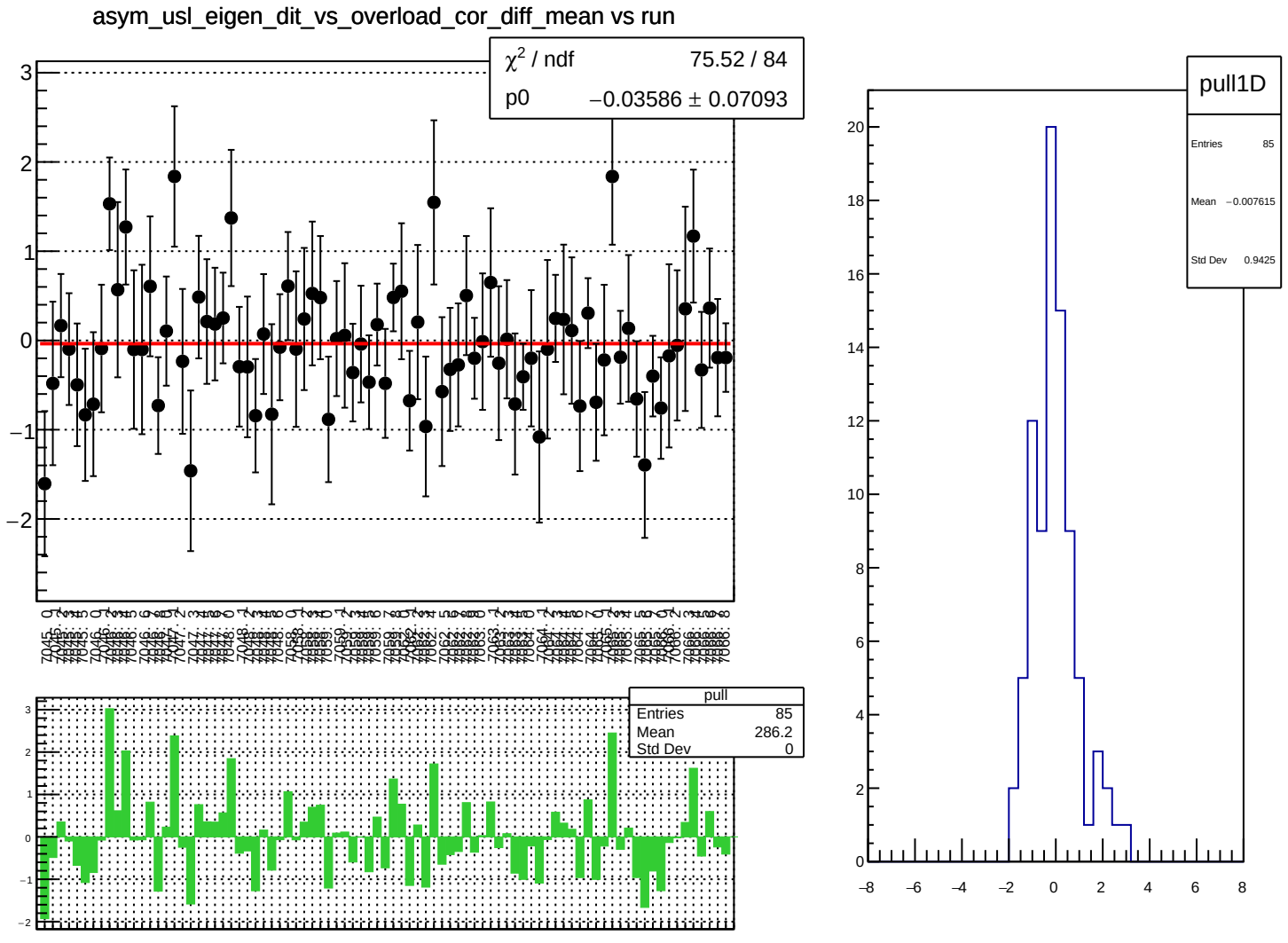

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6739 / 84
p0 0.002945 ± 2.3e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

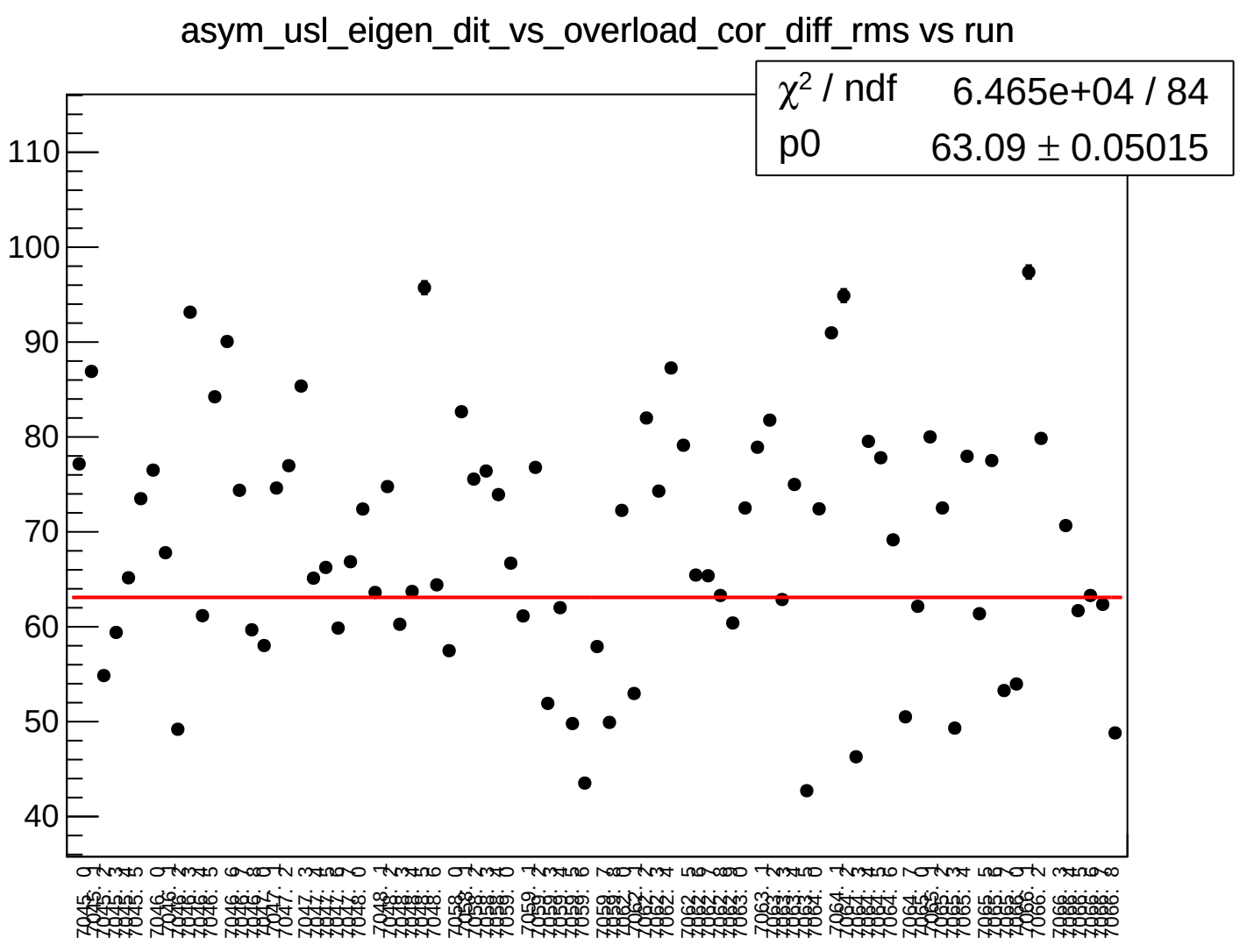

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.56 / 84
p0 −0.09728 ± 0.05055
pull
Entries 85
Mean 35.33
Std Dev 0
pull1D
Entries 85
Mean 0.0221
Std Dev 0.9912

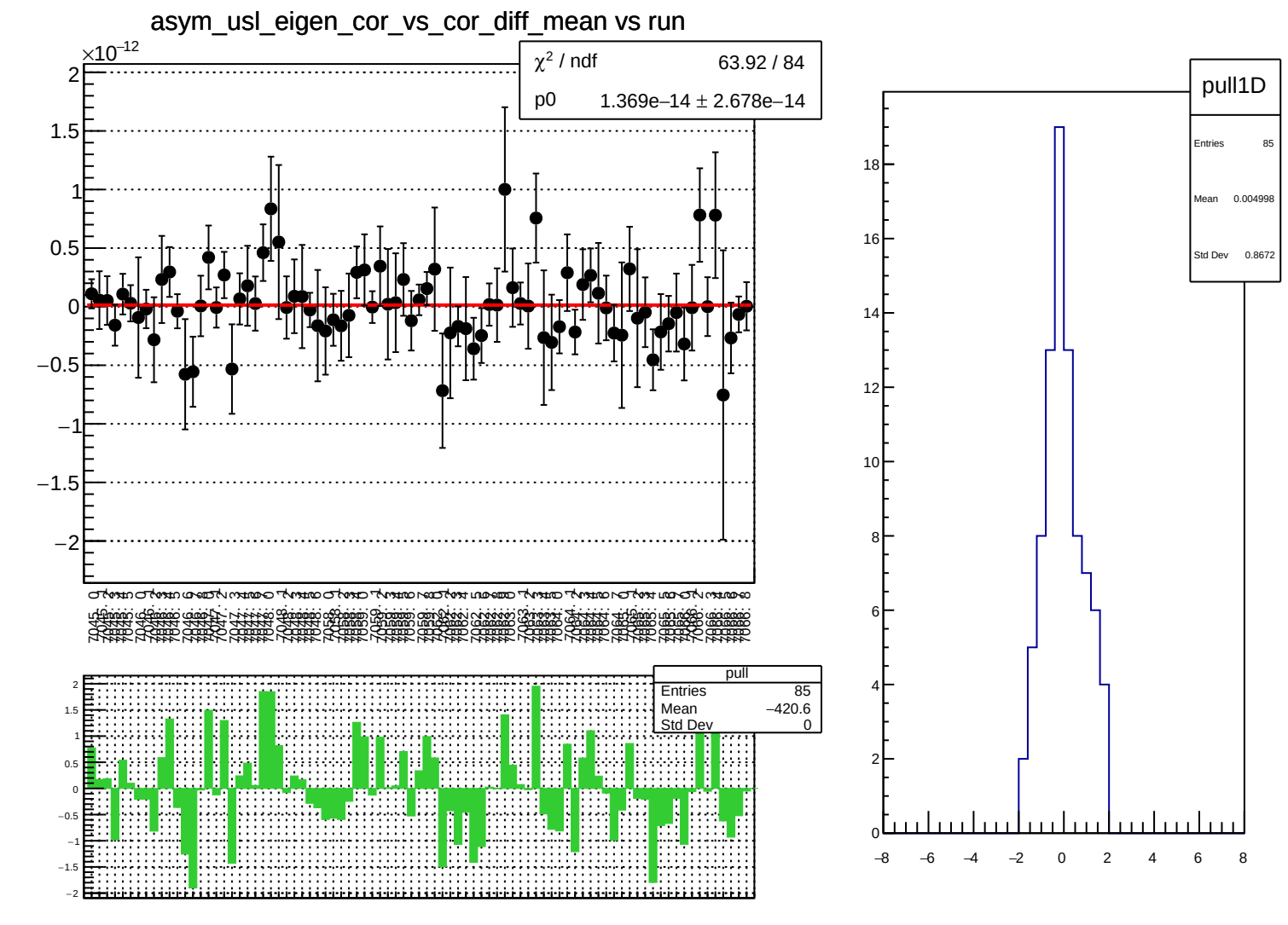

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.102e+05 / 84
p0 44.31 ± 0.03574
100
90
80
70
60
50
40
30
20

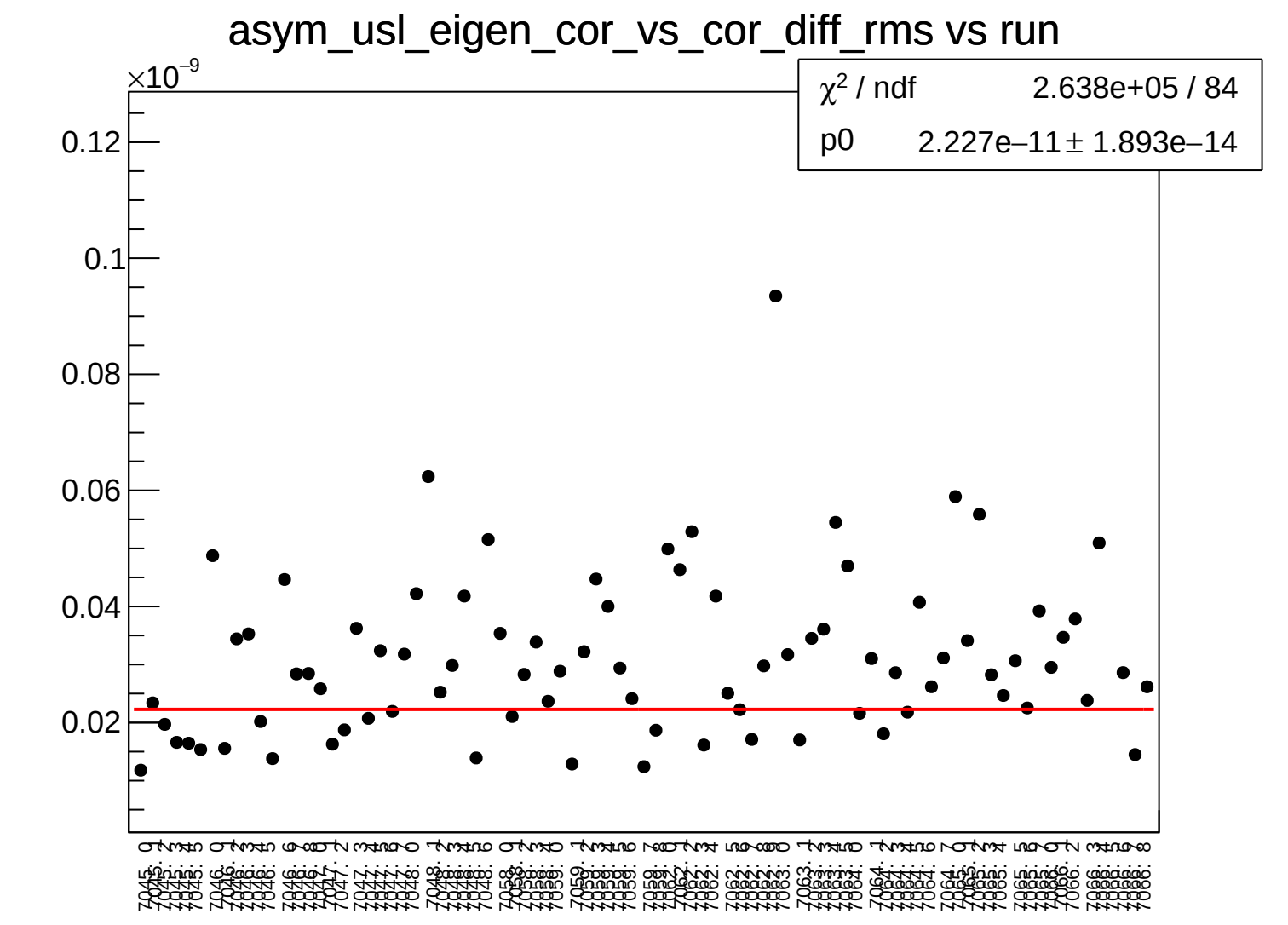

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.56 / 84
p0 −0.09728 ± 0.05055
pull
Entries 85
Mean 35.33
Std Dev 0
pull1D
Entries 85
Mean 0.0221
Std Dev 0.9912

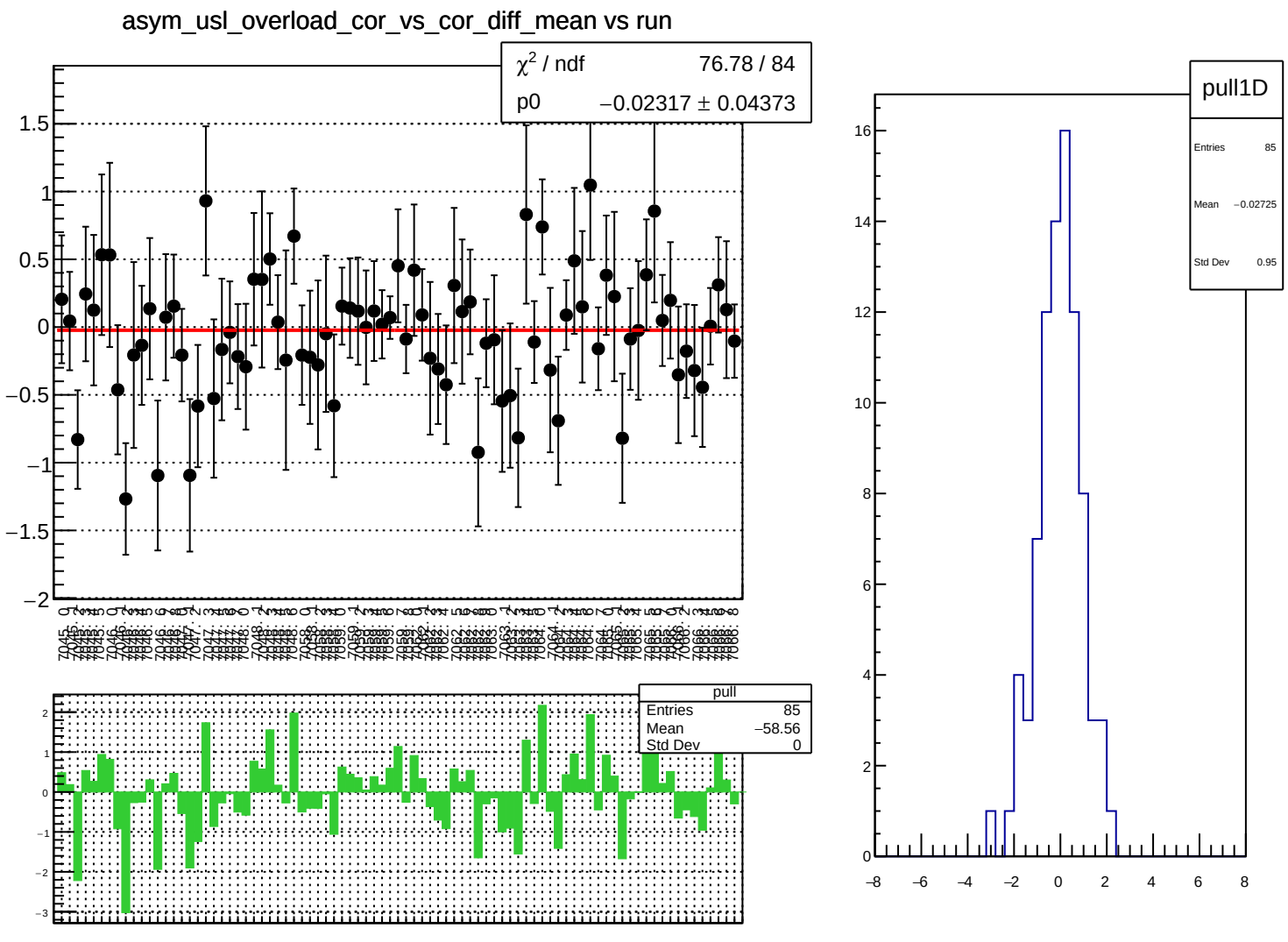

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.102e+05 / 84
p0 44.31 ± 0.03574
100
90
80
70
60
50
40
30
20

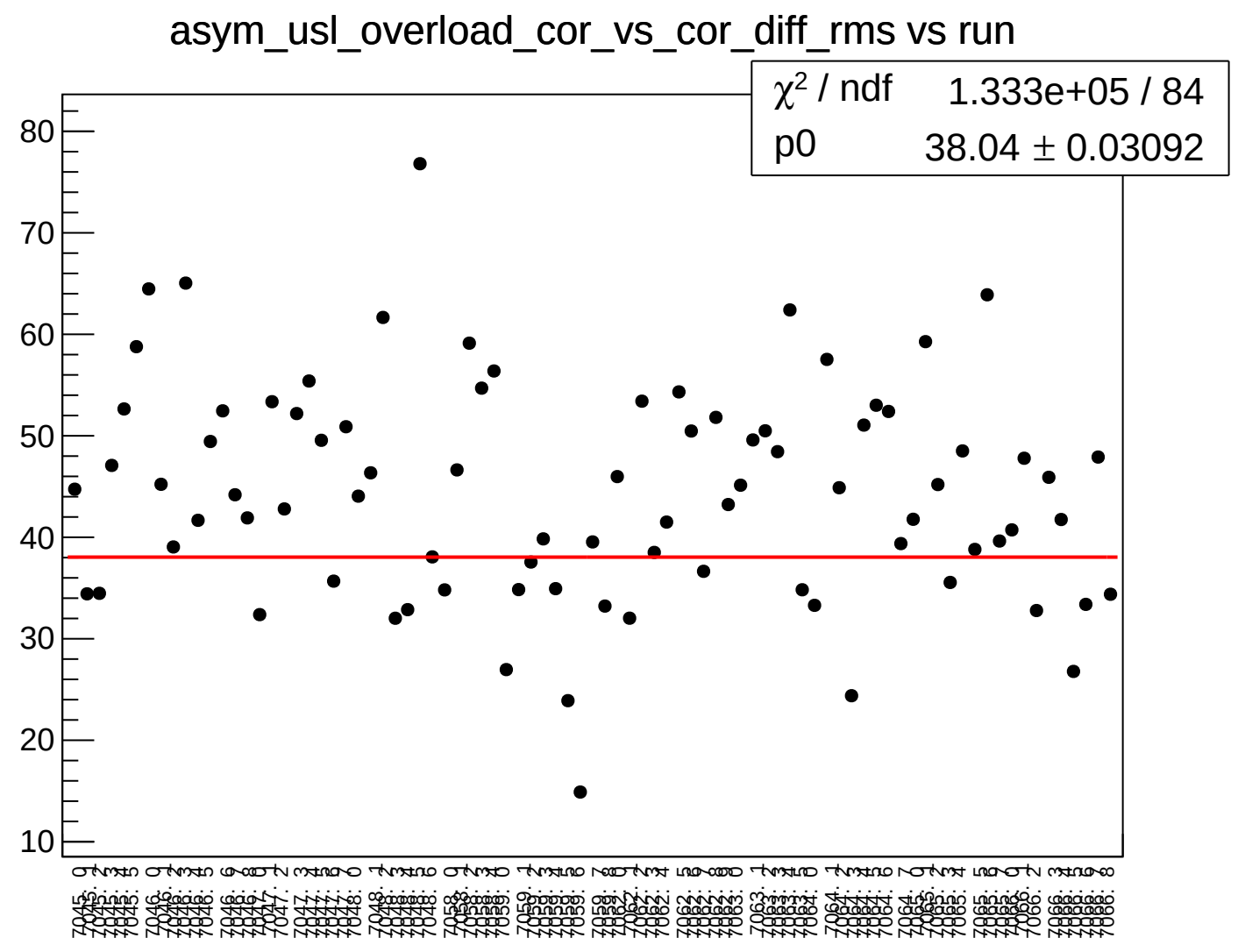

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 75.52 / 84
p0 −0.03586 ± 0.07093
pull
Entries 85
Mean 286.2
Std Dev 0
pull1D
Entries 85
Mean −0.007615
Std Dev 0.9425

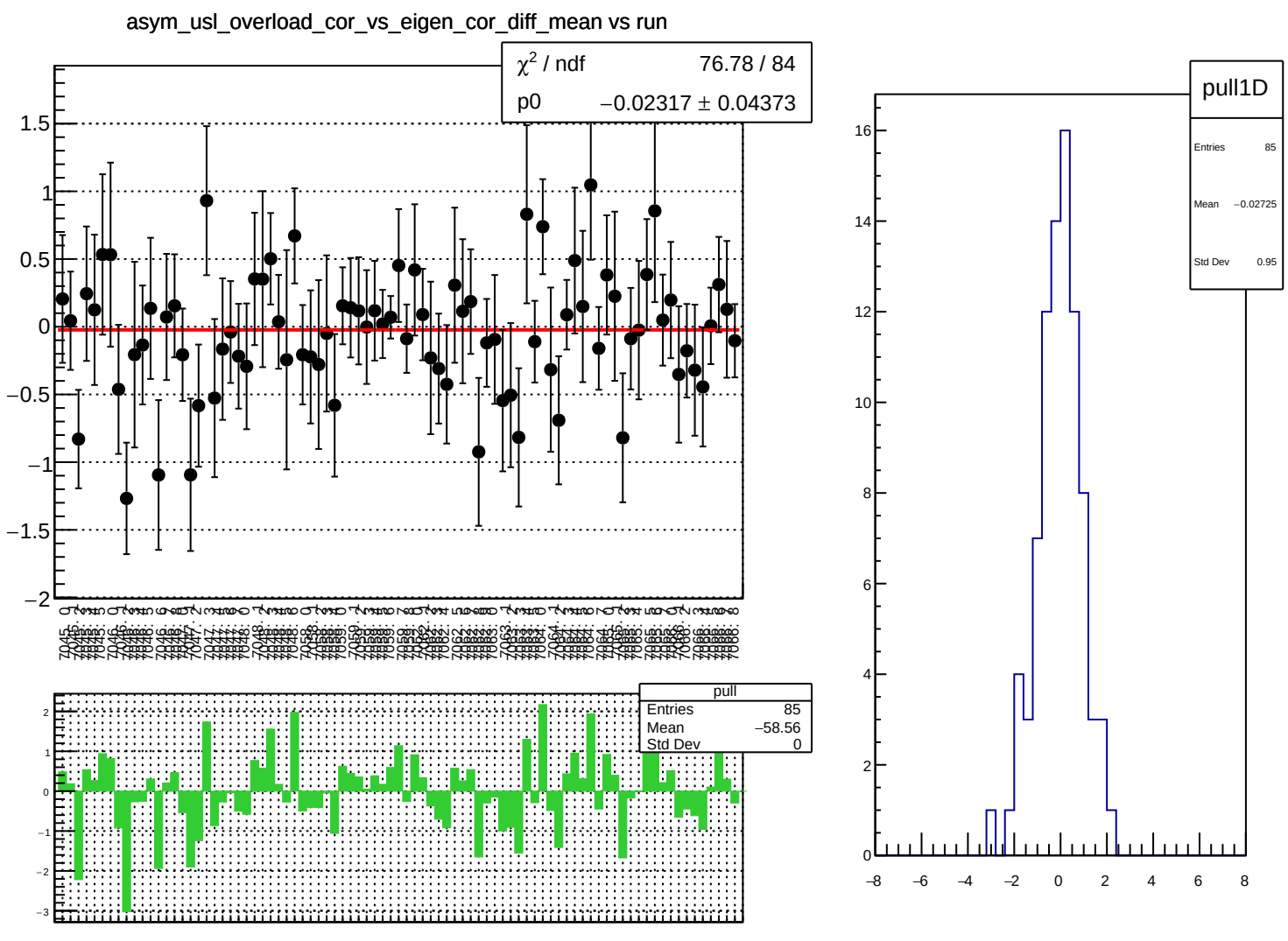

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 6.465e+04 / 84
p0 63.09 ± 0.05015
110
100
90
80
70
60
50
40

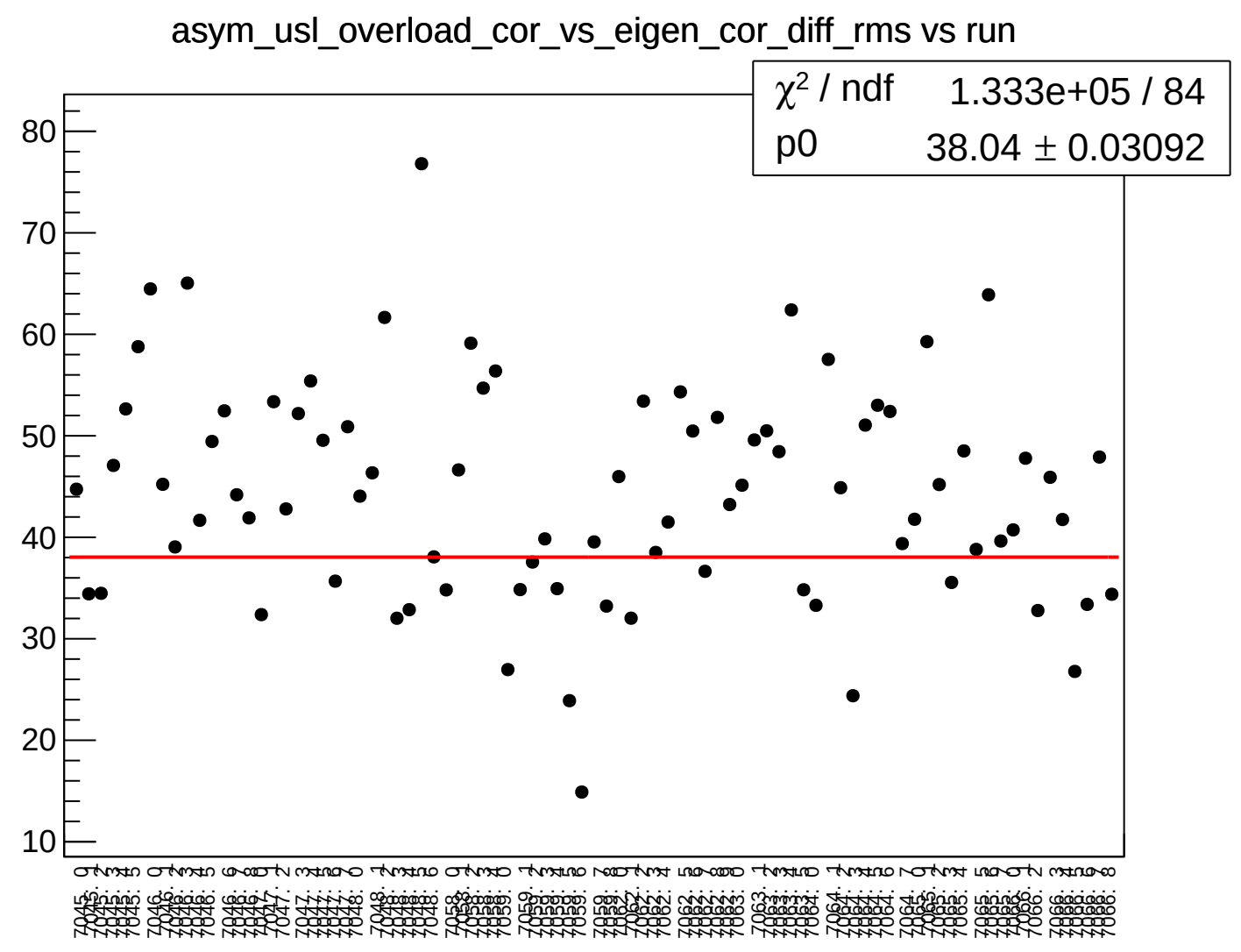

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.92 / 84
p0 1.369e−14 ± 2.678e−14
pull
Entries 85
Mean −420.6
Std Dev 0
pull1D
Entries 85
Mean 0.004998
Std Dev 0.8672

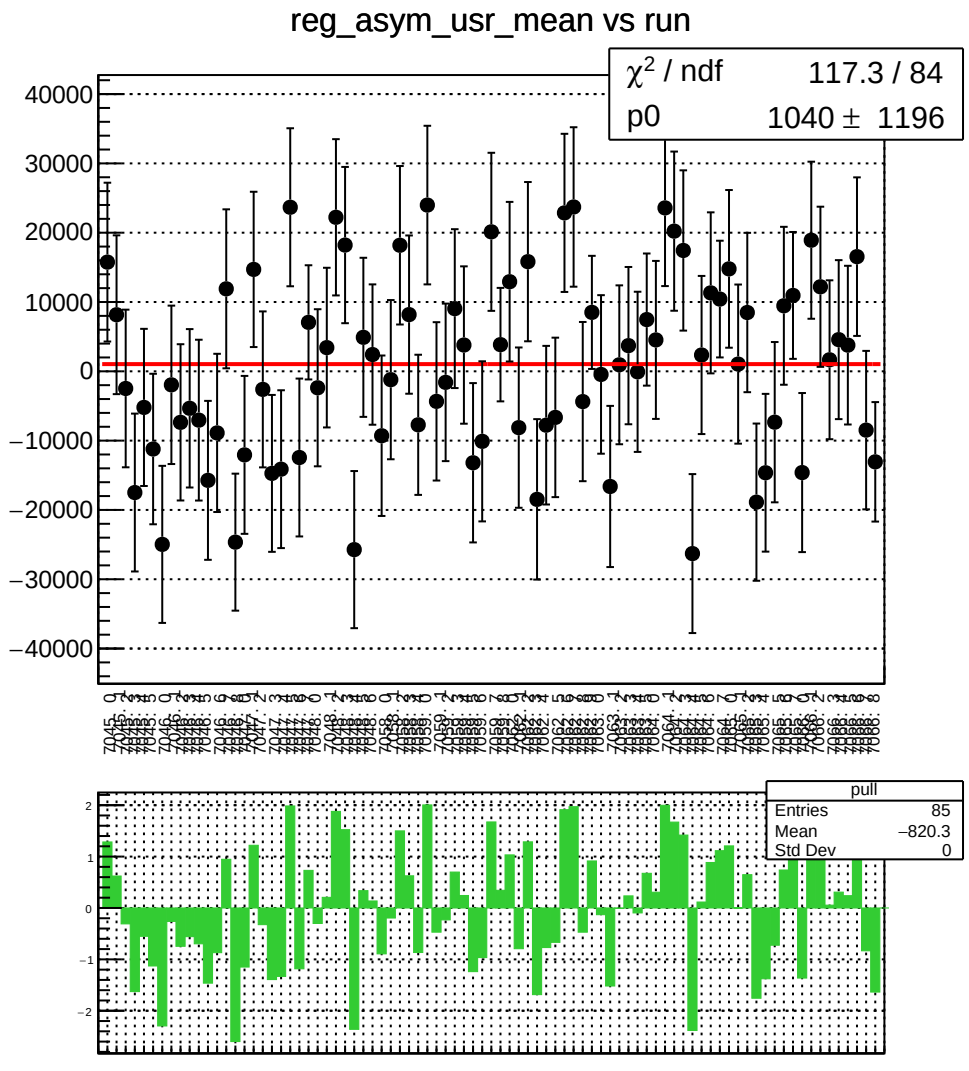

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.638e+05 / 84
p0 2.227e−11 ± 1.893e−14
0.12
0.1
0.08
0.06
0.04
0.02

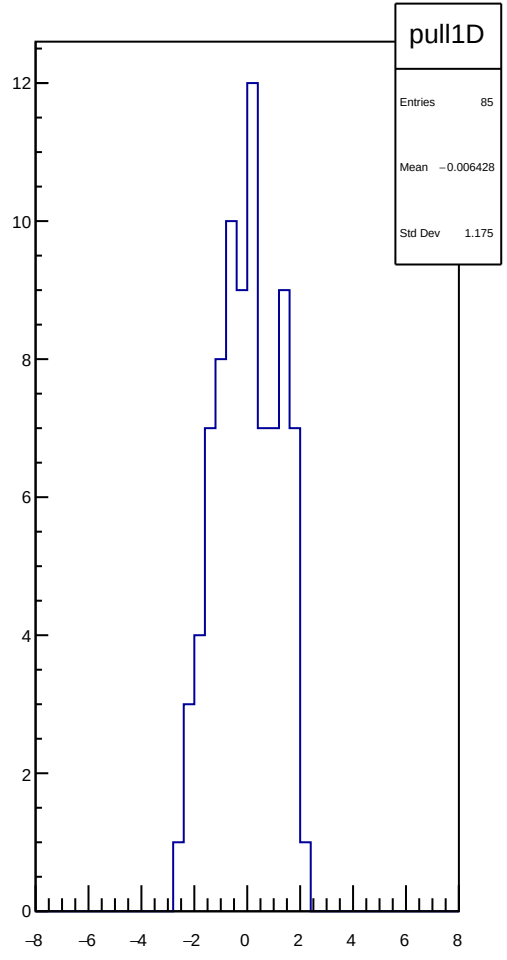

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 76.78 / 84
p0 −0.02317 ± 0.04373
pull
Entries 85
Mean −58.56
Std Dev 0
pull1D
Entries 85
Mean −0.02725
Std Dev 0.95

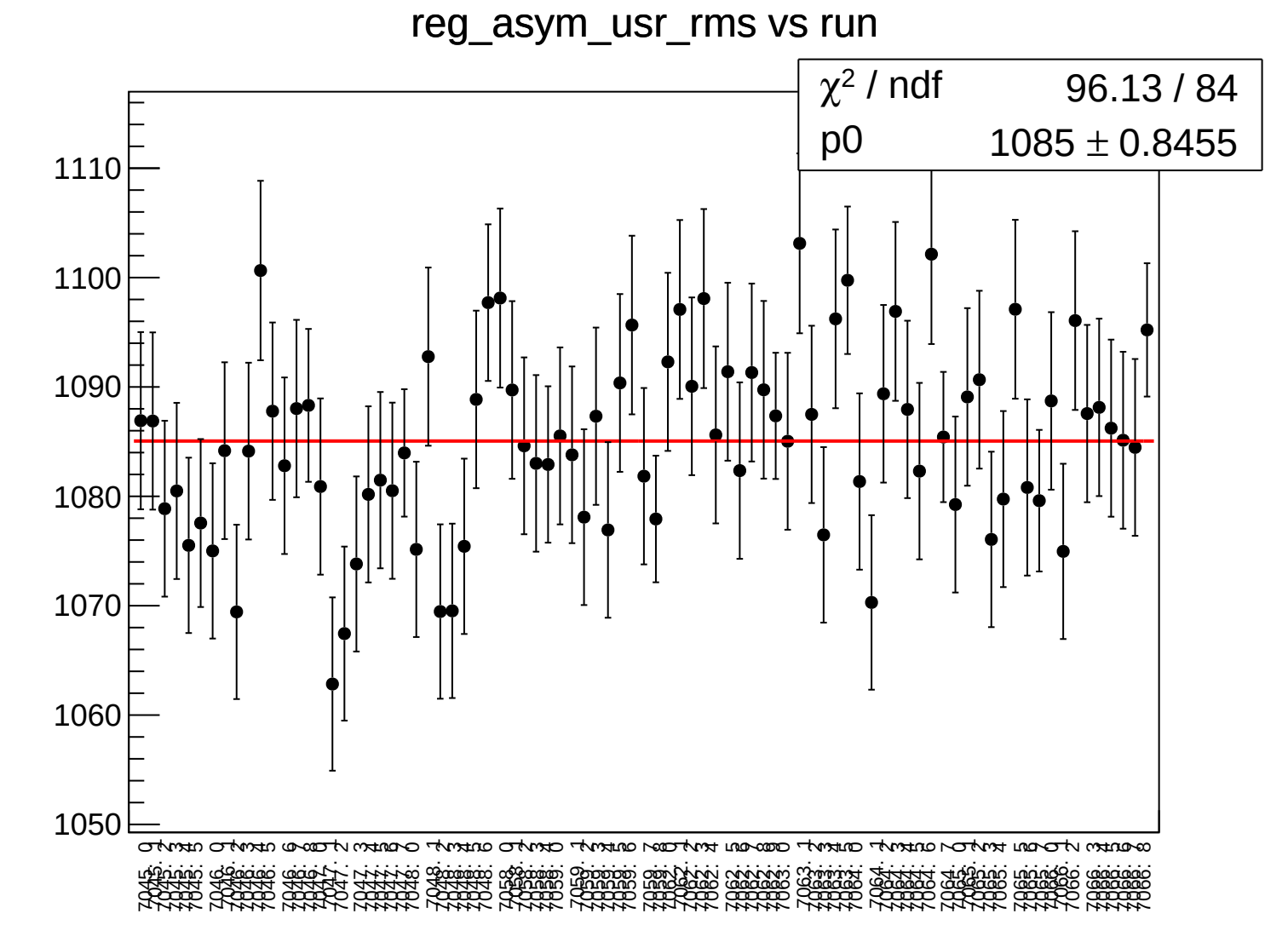

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.333e+05 / 84
p0 38.04 ± 0.03092
80
70
60
50
40
30
20
10

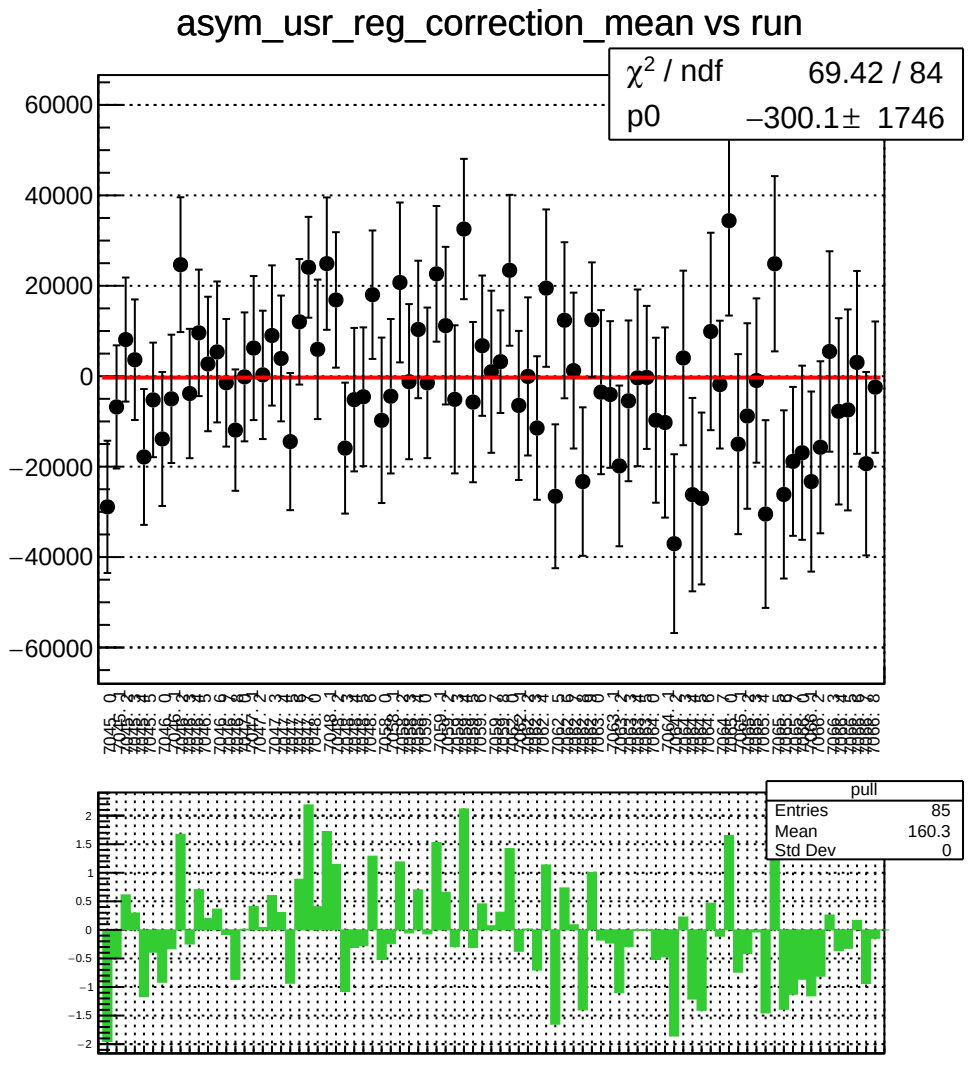

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.78 / 84
p0 −0.02317 ± 0.04373
pull
Entries 85
Mean −58.56
Std Dev 0
pull1D
Entries 85
Mean −0.02725
Std Dev 0.95

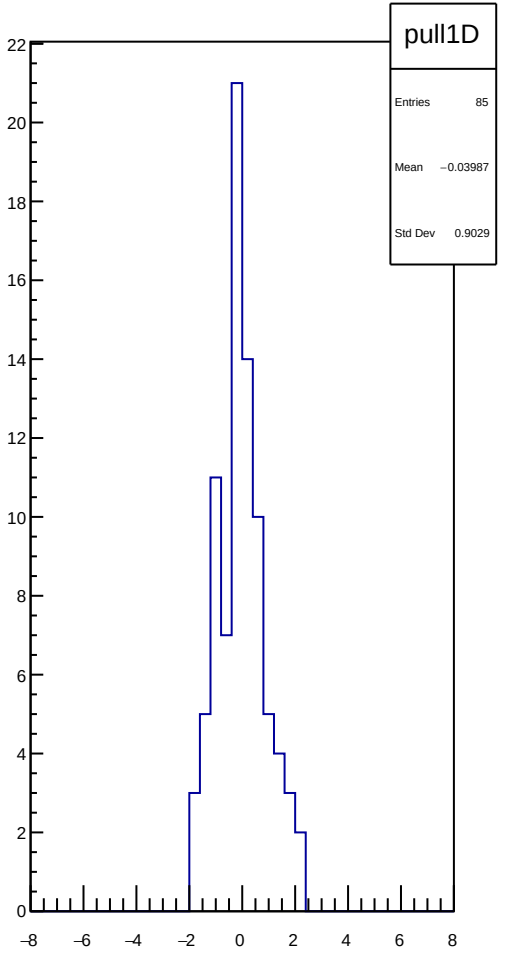

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+05 / 84
p0 38.04 ± 0.03092
80
70
60
50
40
30
20
10

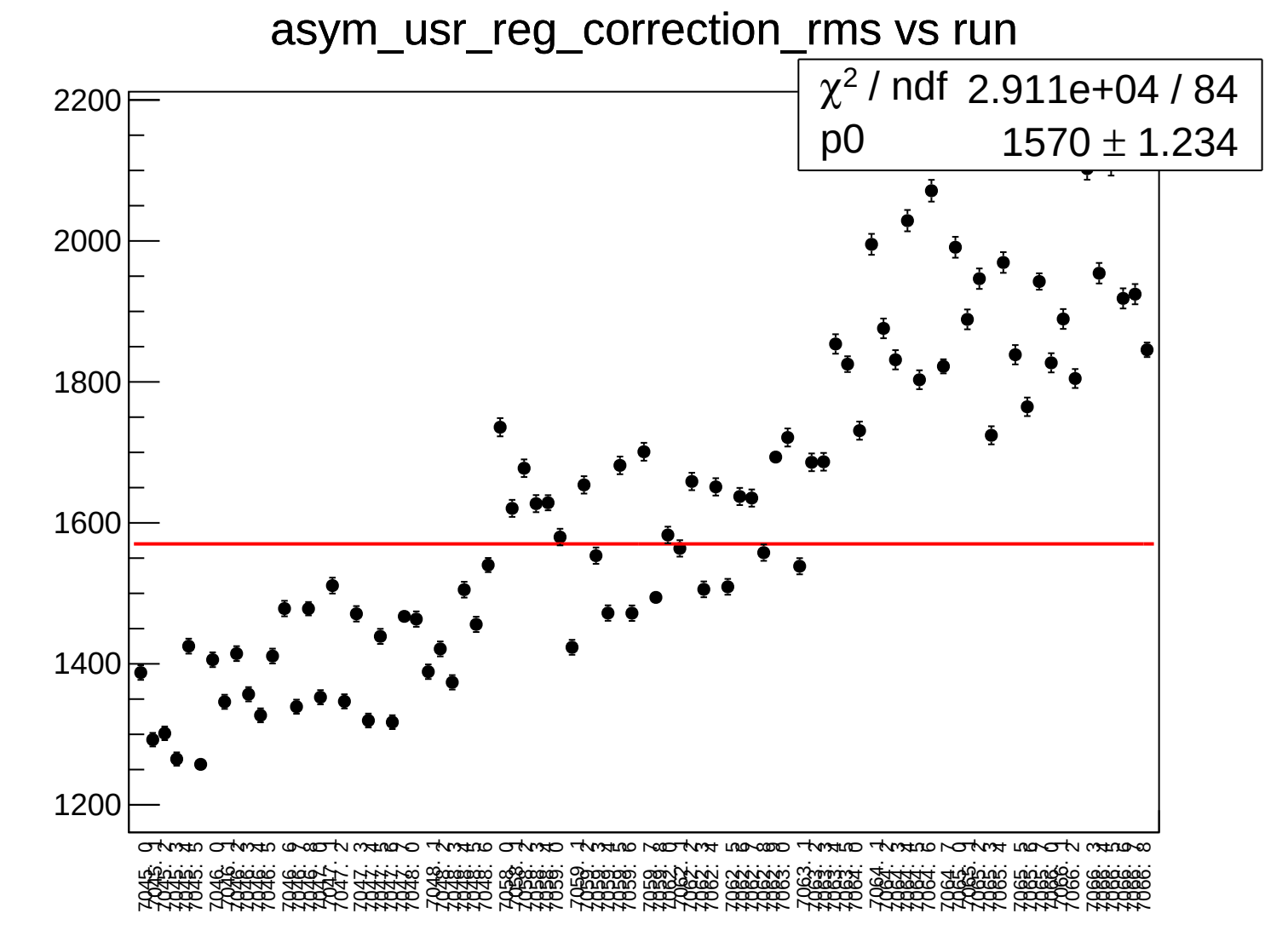

reg_asym_usr_mean vs run
χ² / ndf 117.3 / 84
p0 1040 ± 1196
pull
Entries 85
Mean −820.3
Std Dev 0

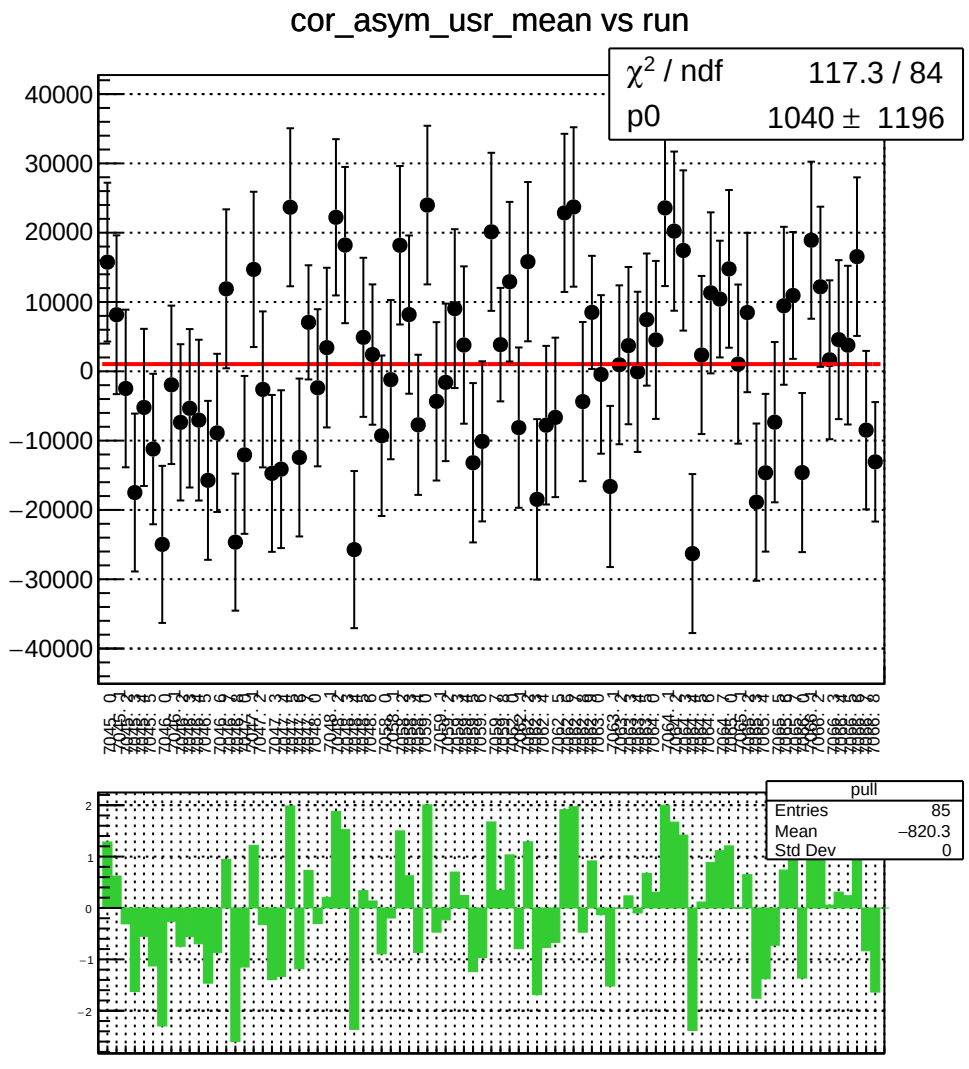

pull1D
Entries 85
Mean −0.006428
Std Dev 1.175

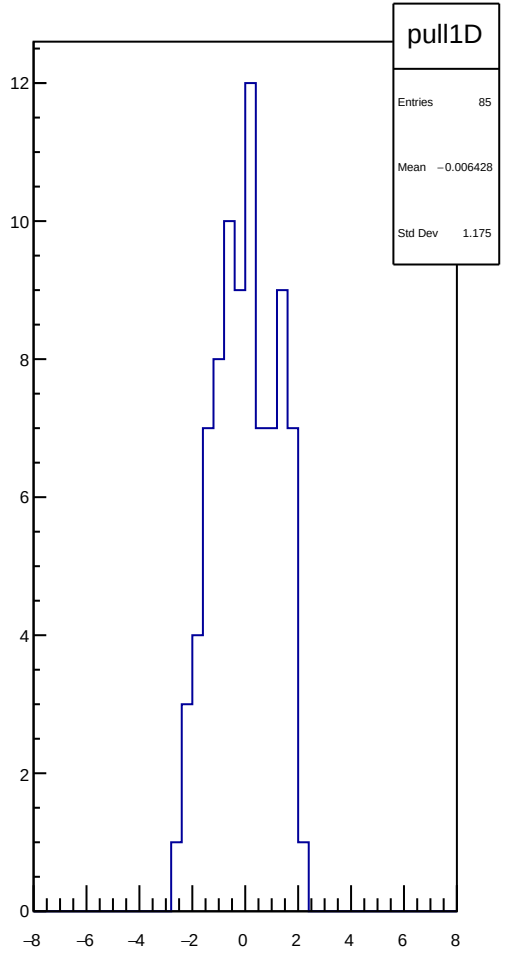

reg_asym_usr_rms vs run
χ² / ndf 96.13 / 84
p0 1085 ± 0.8455
1110
1100
1090
1080
1070
1060
1050

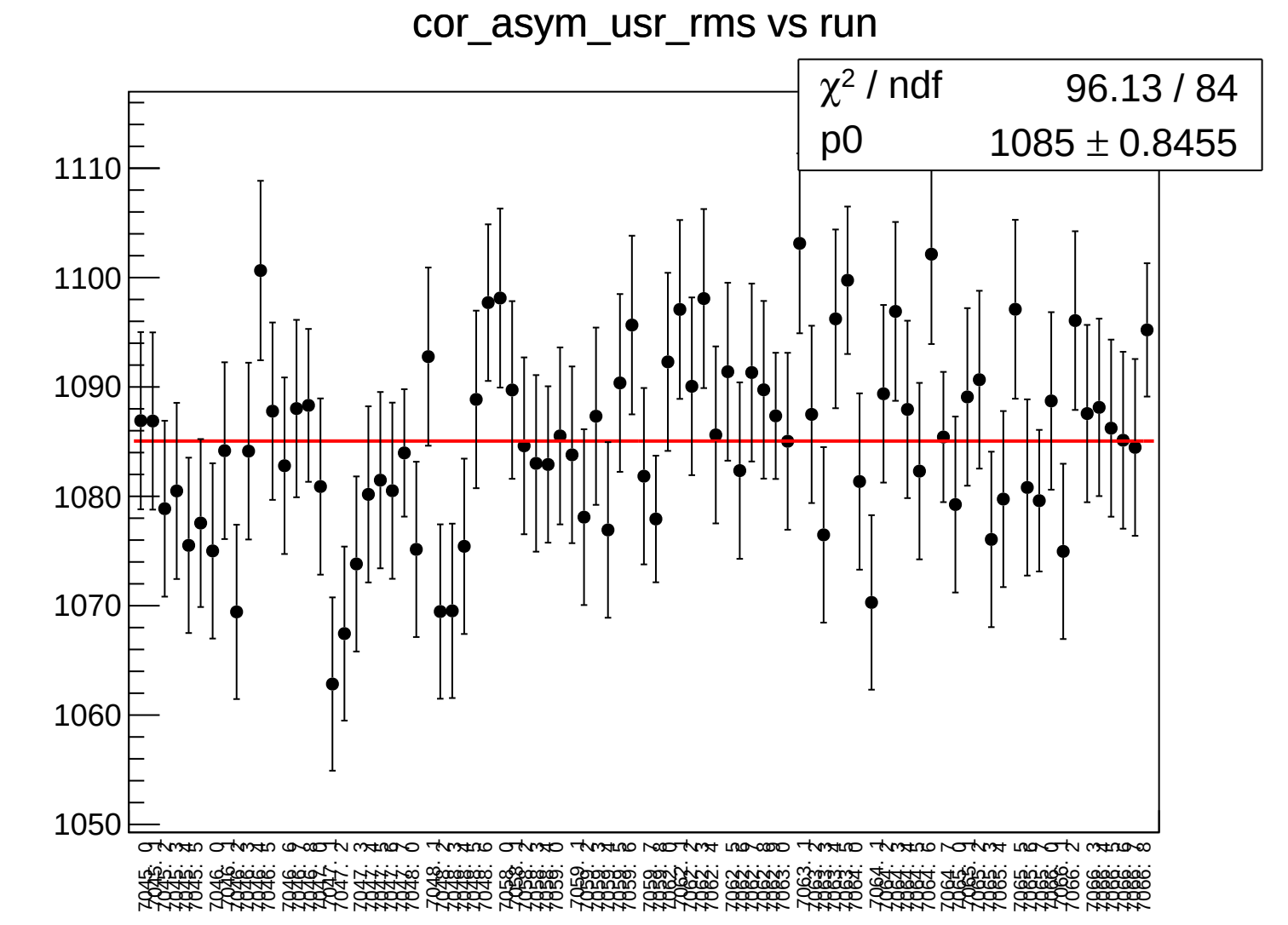

asym_usr_reg_correction_mean vs run
χ² / ndf 69.42 / 84
p0 −300.1± 1746
pull
Entries 85
Mean 160.3
Std Dev 0

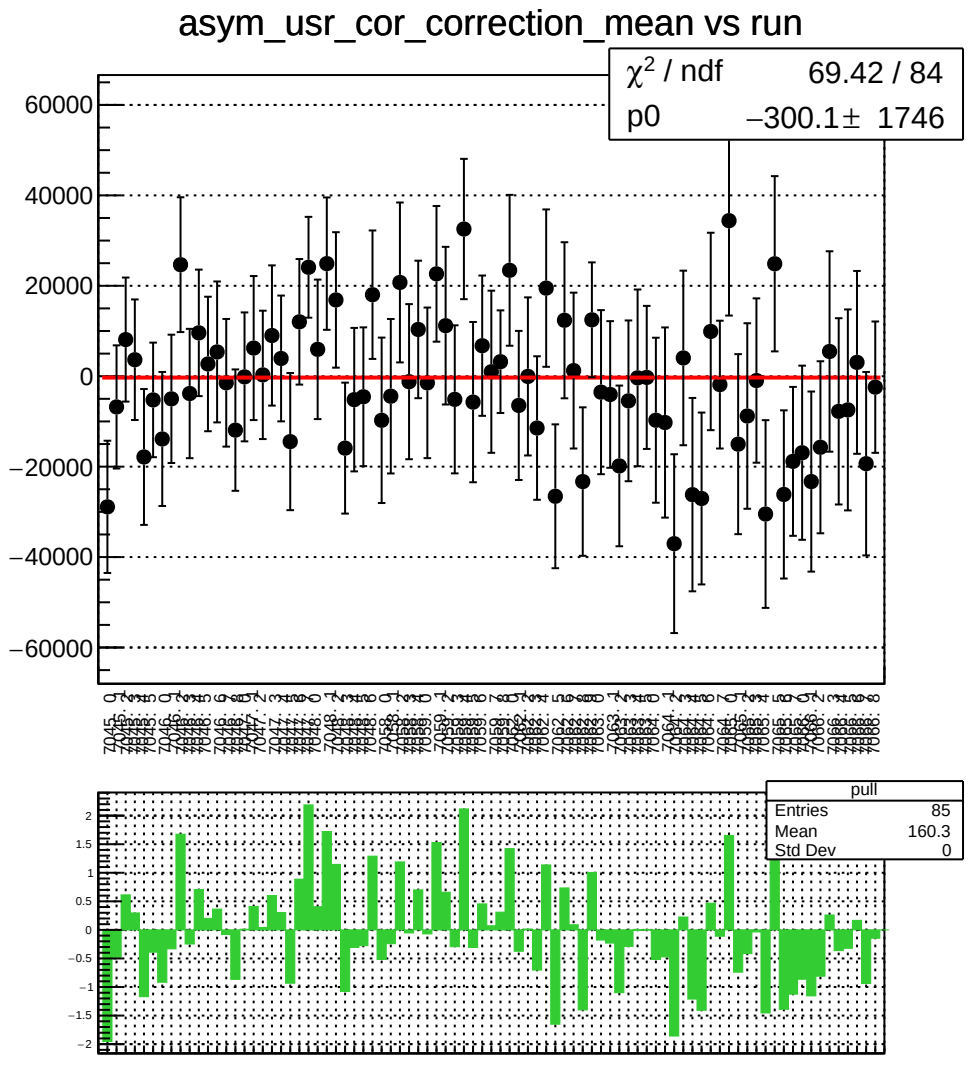

pull1D
Entries 85
Mean −0.03987
Std Dev 0.9029

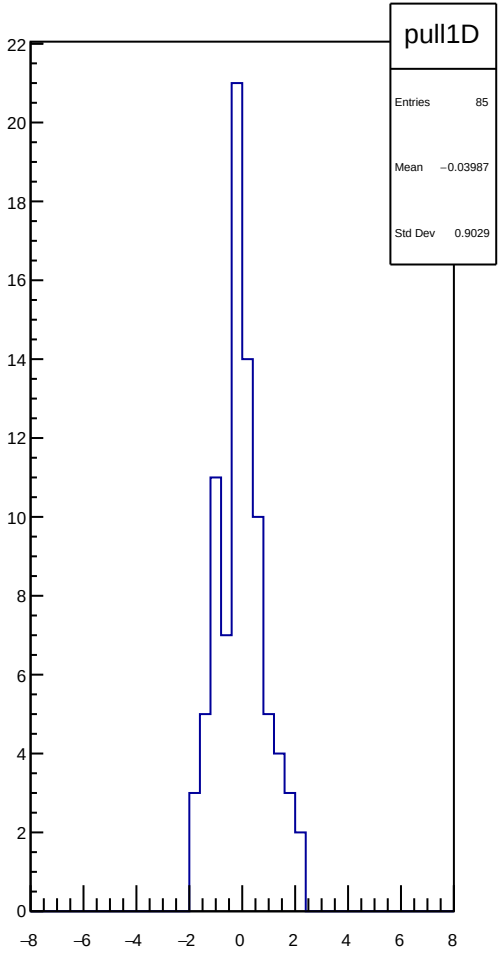

asym_usr_reg_correction_rms vs run
χ² / ndf 2.911e+04 / 84
p0 1570 ± 1.234
2200
2000
1800
1600
1400
1200

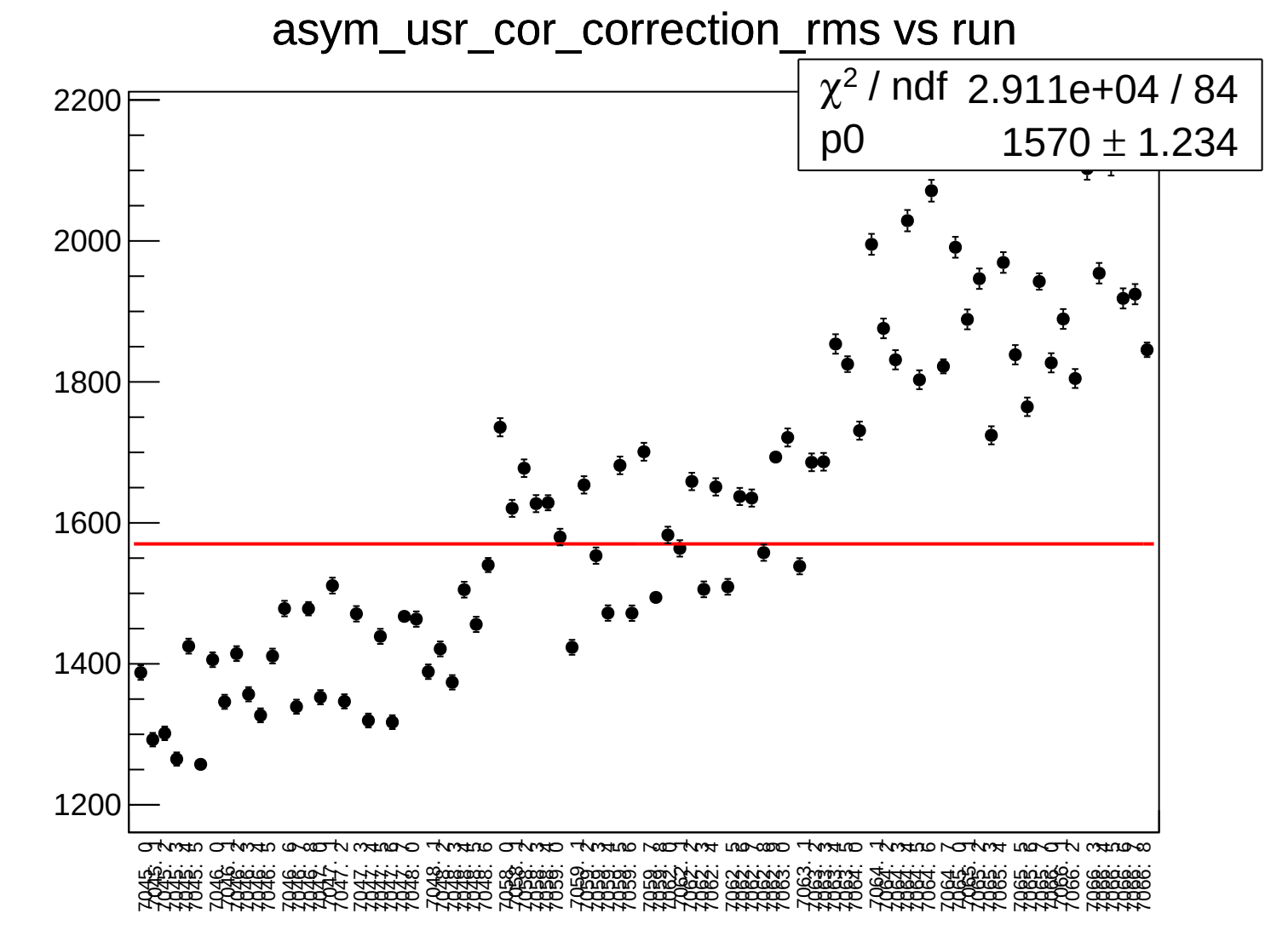

cor_asym_usr_mean vs run
χ² / ndf 117.3 / 84
p0 1040 ± 1196
pull
Entries 85
Mean −820.3
Std Dev 0

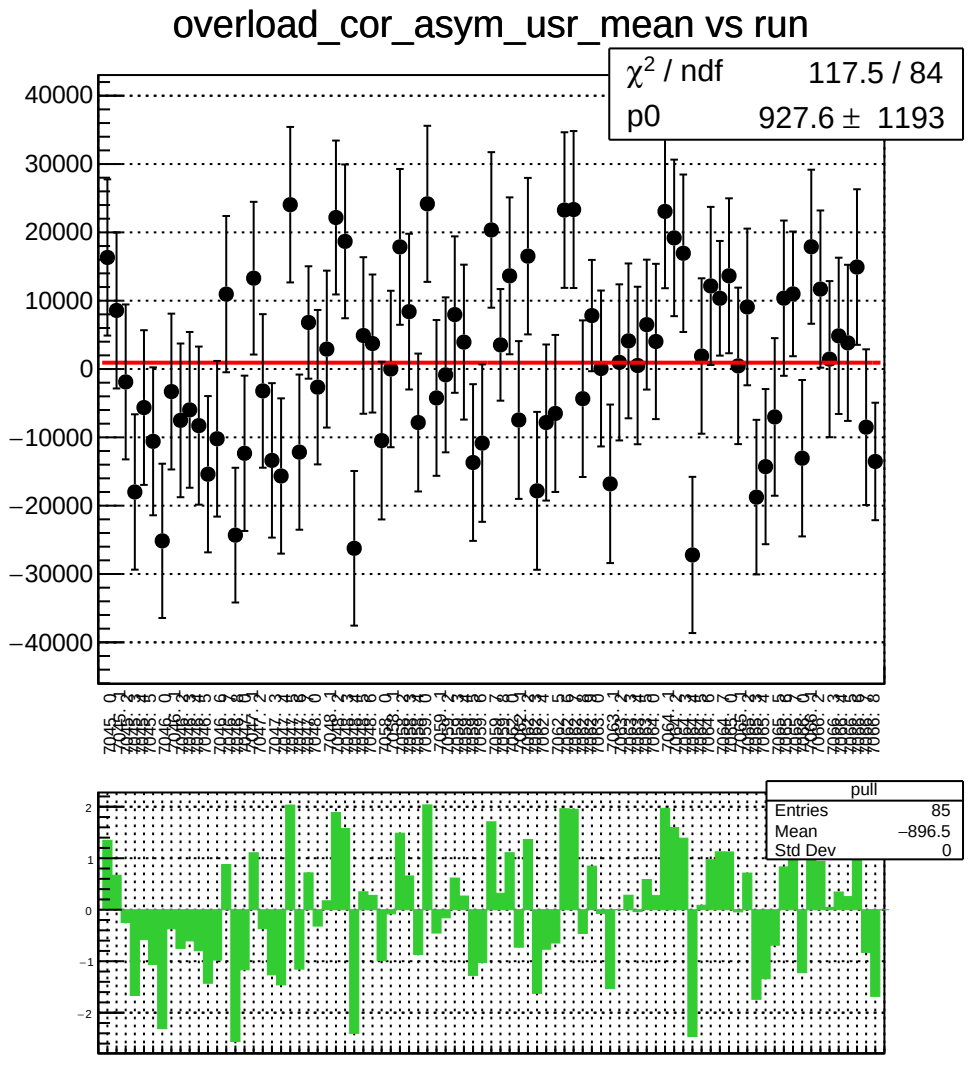

pull1D
Entries 85
Mean −0.006428
Std Dev 1.175

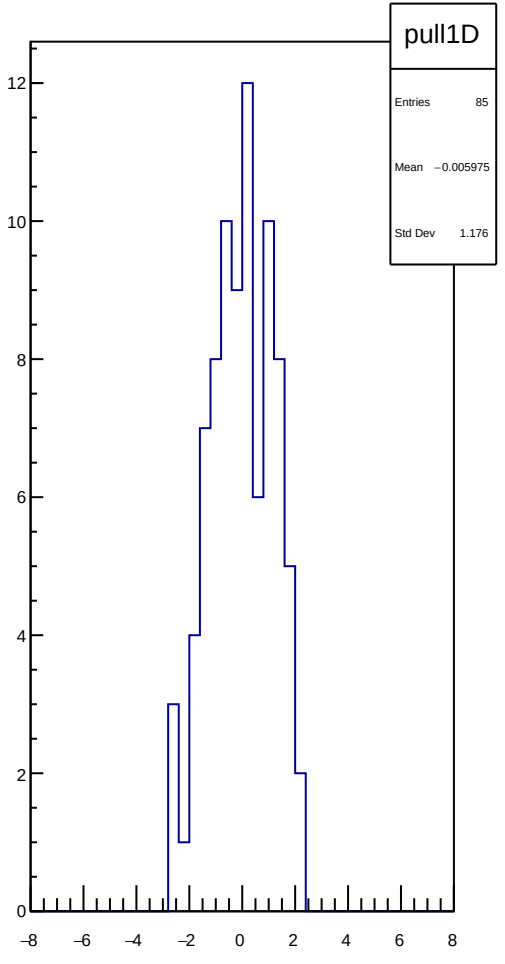

cor_asym_usr_rms vs run
χ^2 / ndf 96.13 / 84
p0 1085 ± 0.8455
1110
1100
1090
1080
1070
1060
1050

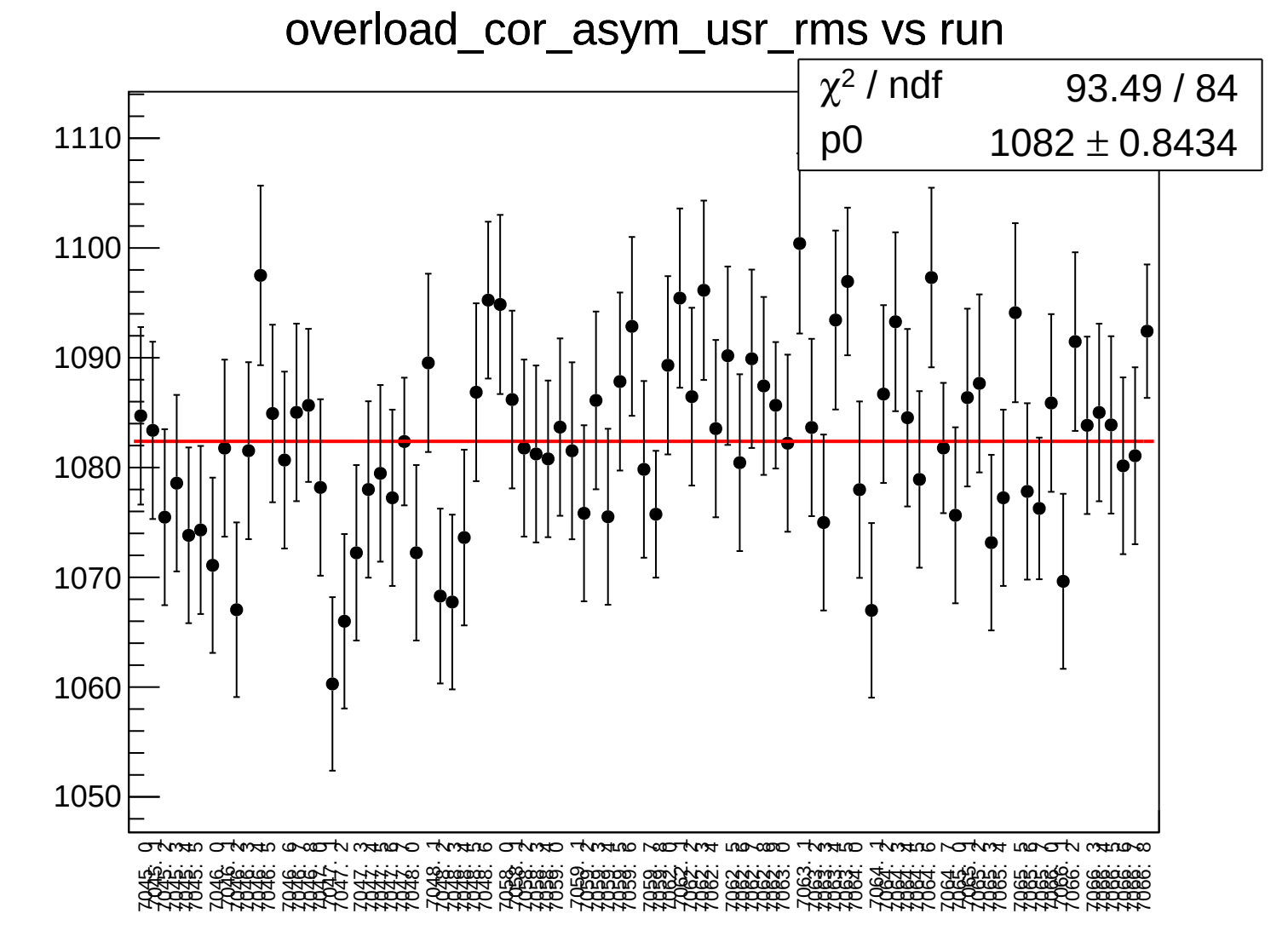

asym_usr_cor_correction_mean vs run
χ² / ndf 69.42 / 84
p0 −300.1± 1746
pull
Entries 85
Mean 160.3
Std Dev 0

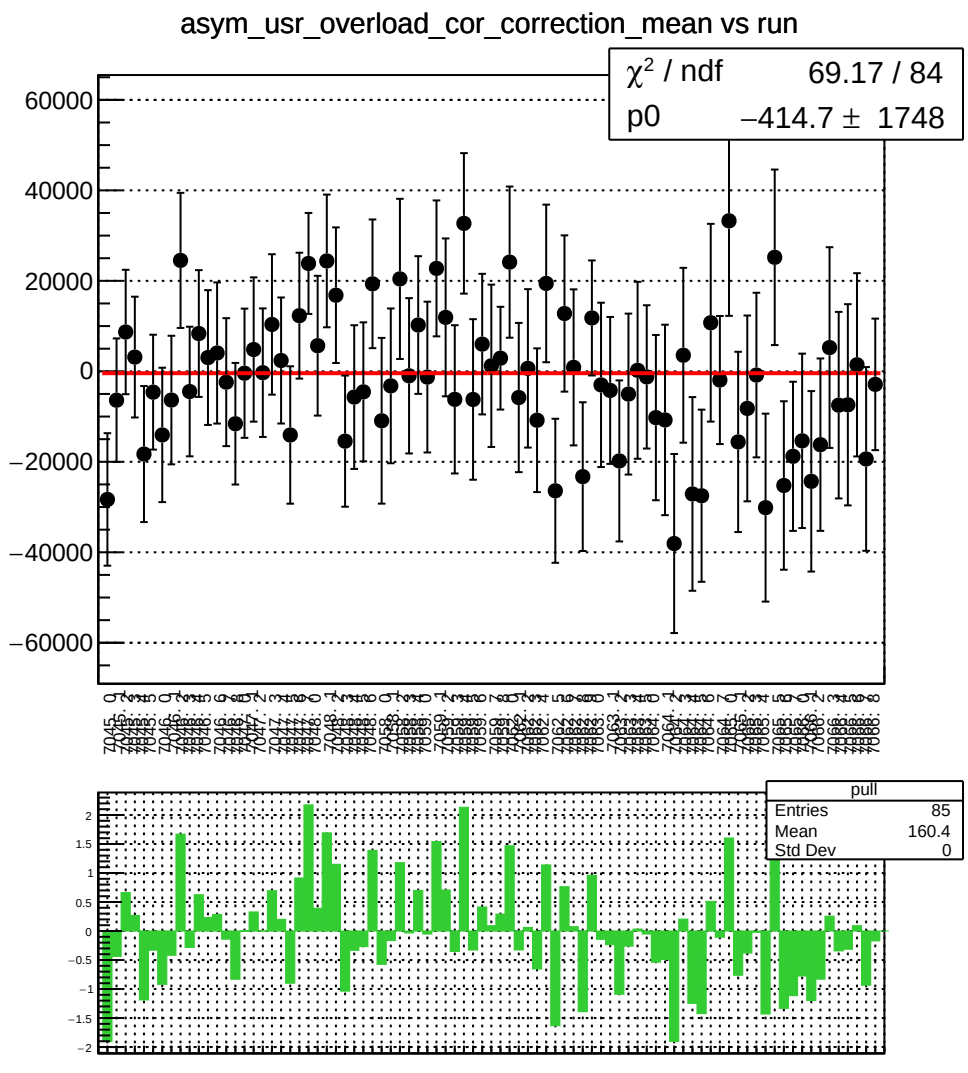

pull1D
Entries 85
Mean −0.03987
Std Dev 0.9029

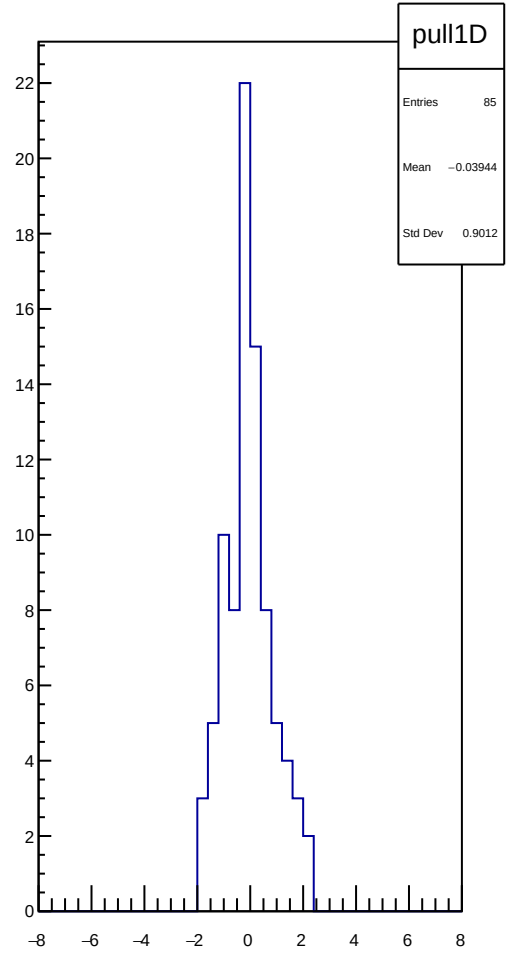

asym_usr_cor_correction_rms vs run
χ² / ndf 2.911e+04 / 84
p0 1570 ± 1.234
2200
2000
1800
1600
1400
1200

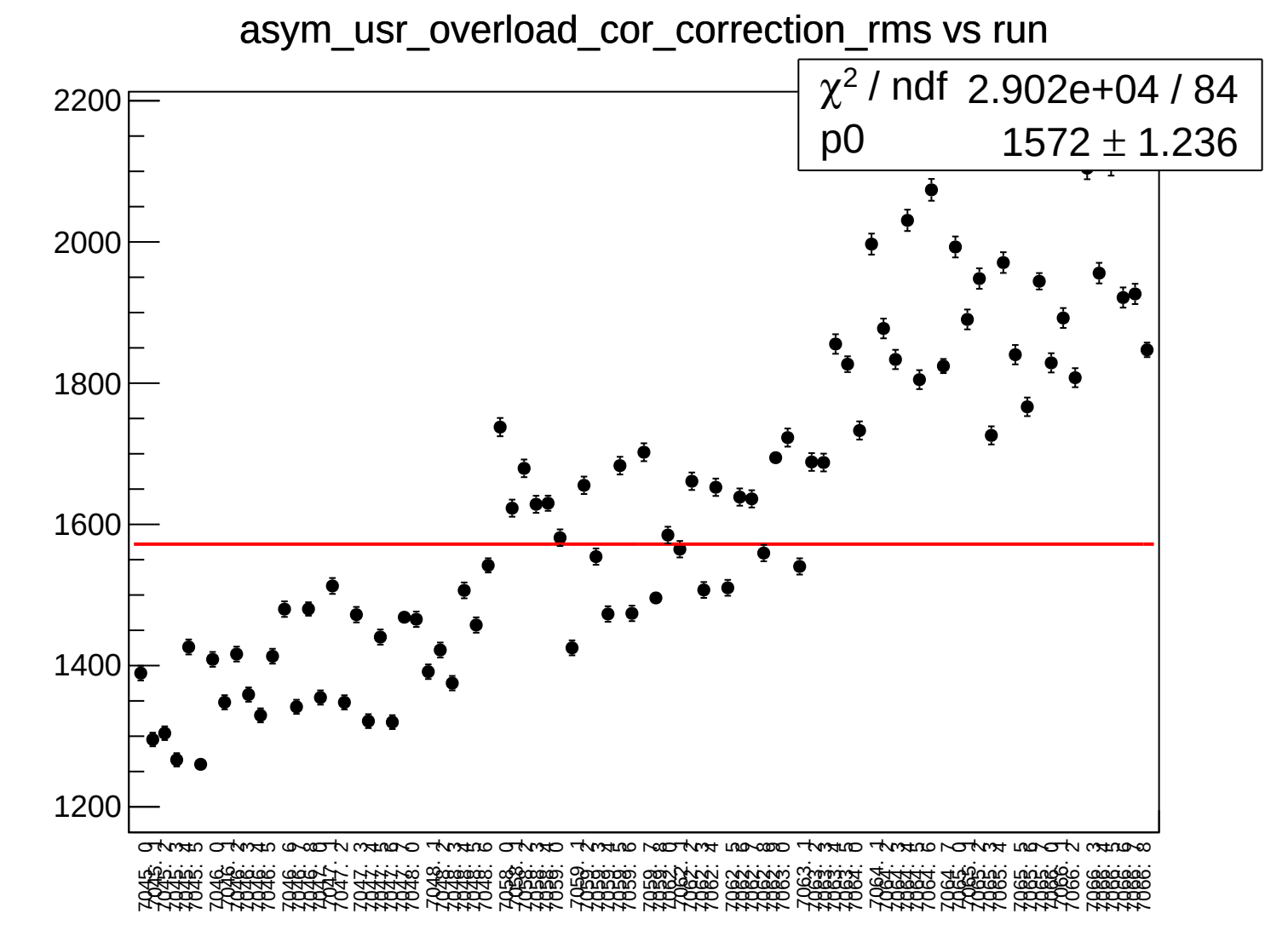

overload_cor_asym_usr_mean vs run
χ² / ndf 117.5 / 84
p0 927.6 ± 1193
pull
Entries 85
Mean −896.5
Std Dev 0

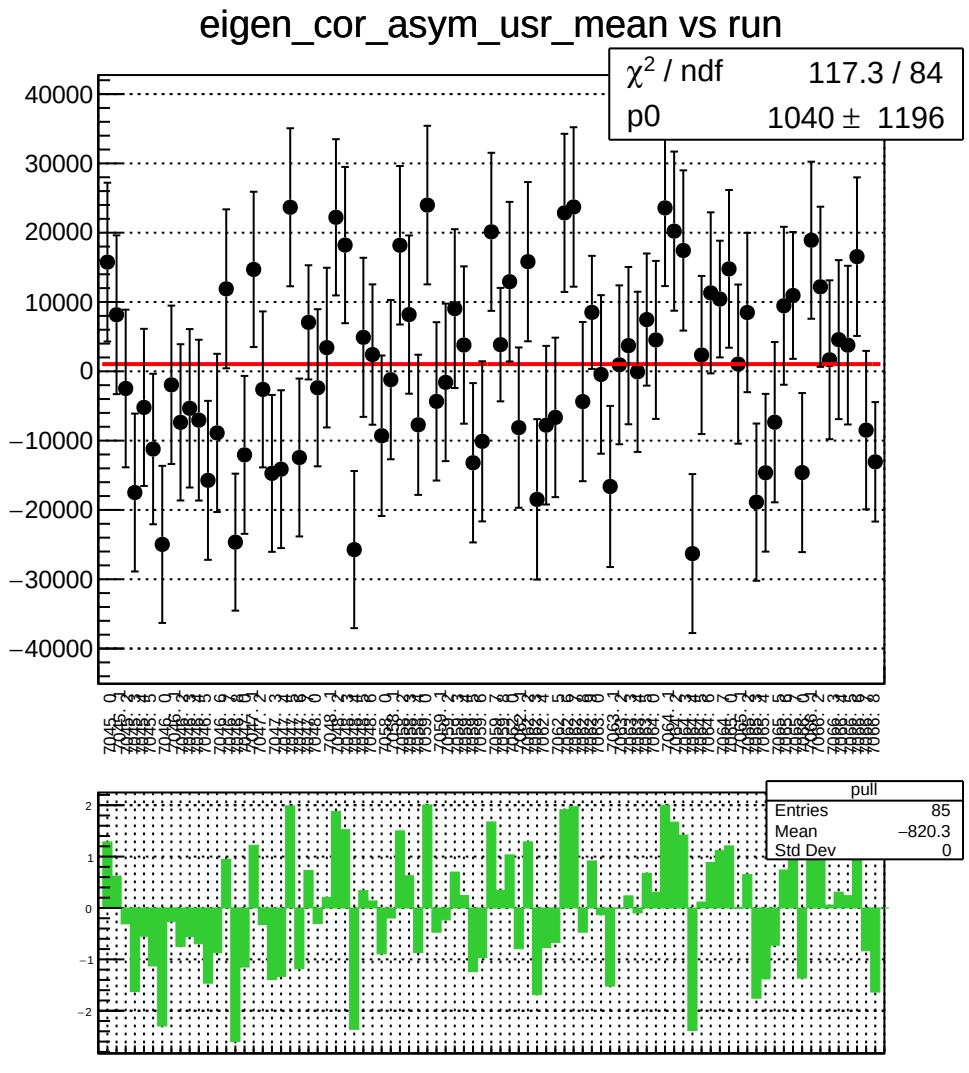

pull1D
Entries 85
Mean −0.005975
Std Dev 1.176

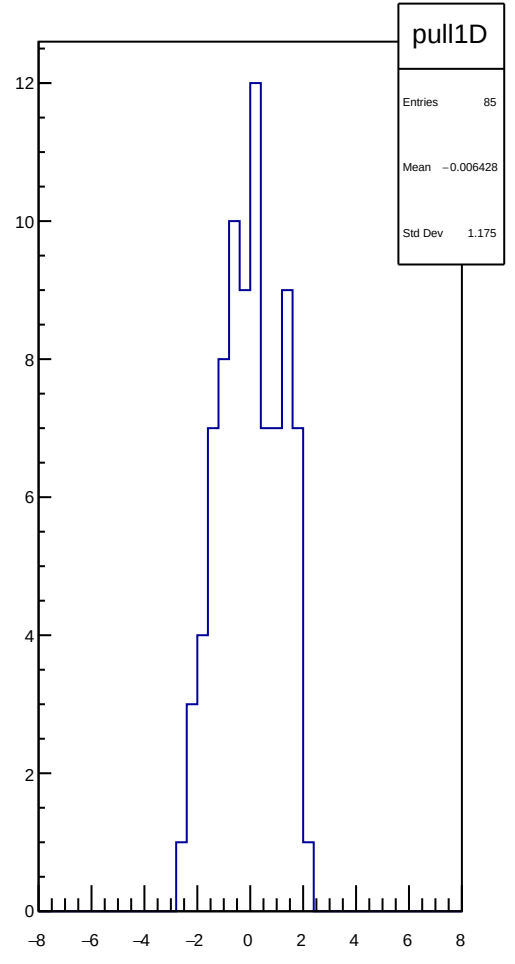

overload_cor_asym_usr_rms vs run
χ² / ndf 93.49 / 84
p0 1082 ± 0.8434
1110
1100
1090
1080
1070
1060
1050

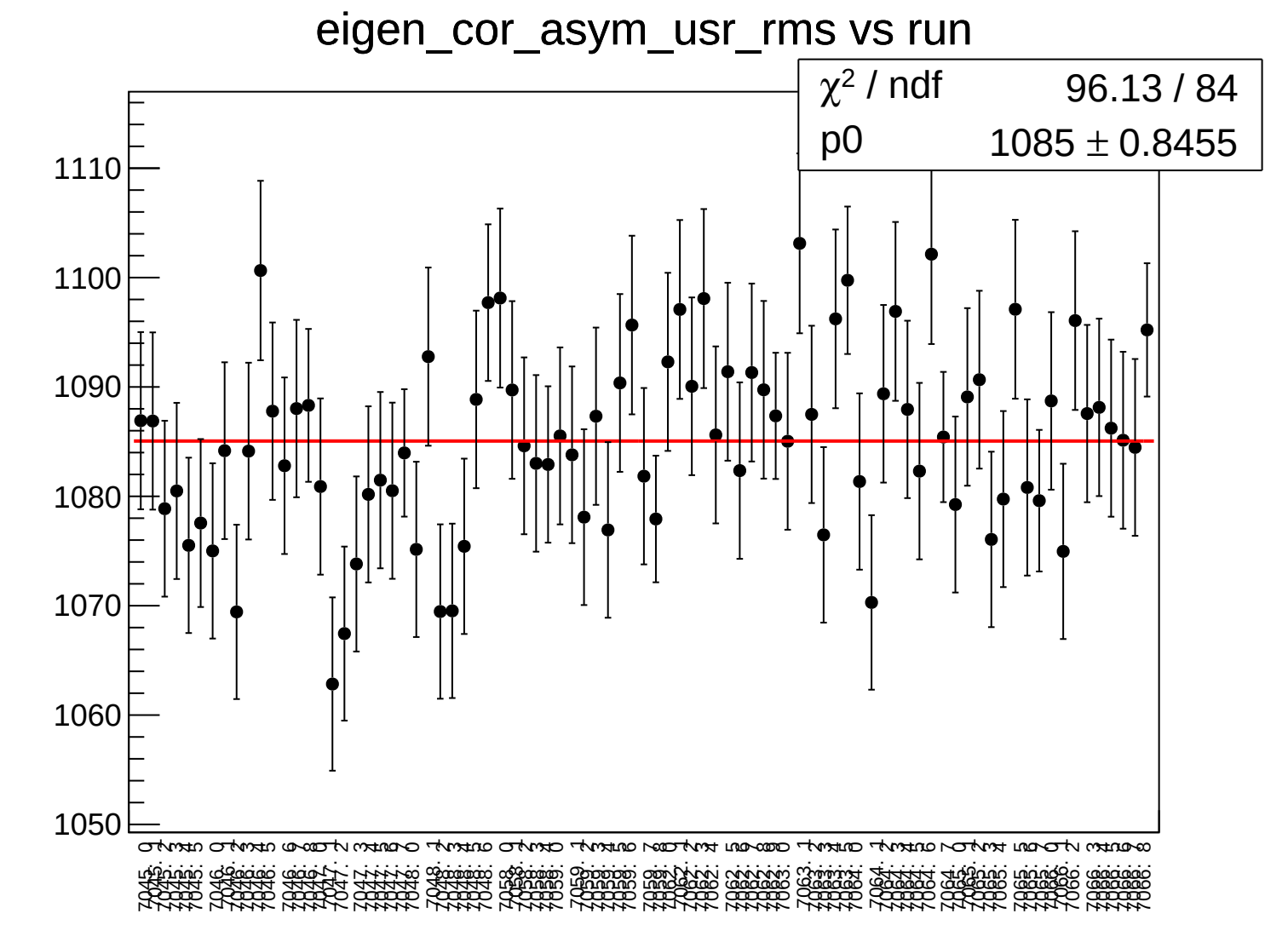

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 69.17 / 84
p0 −414.7 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 160.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

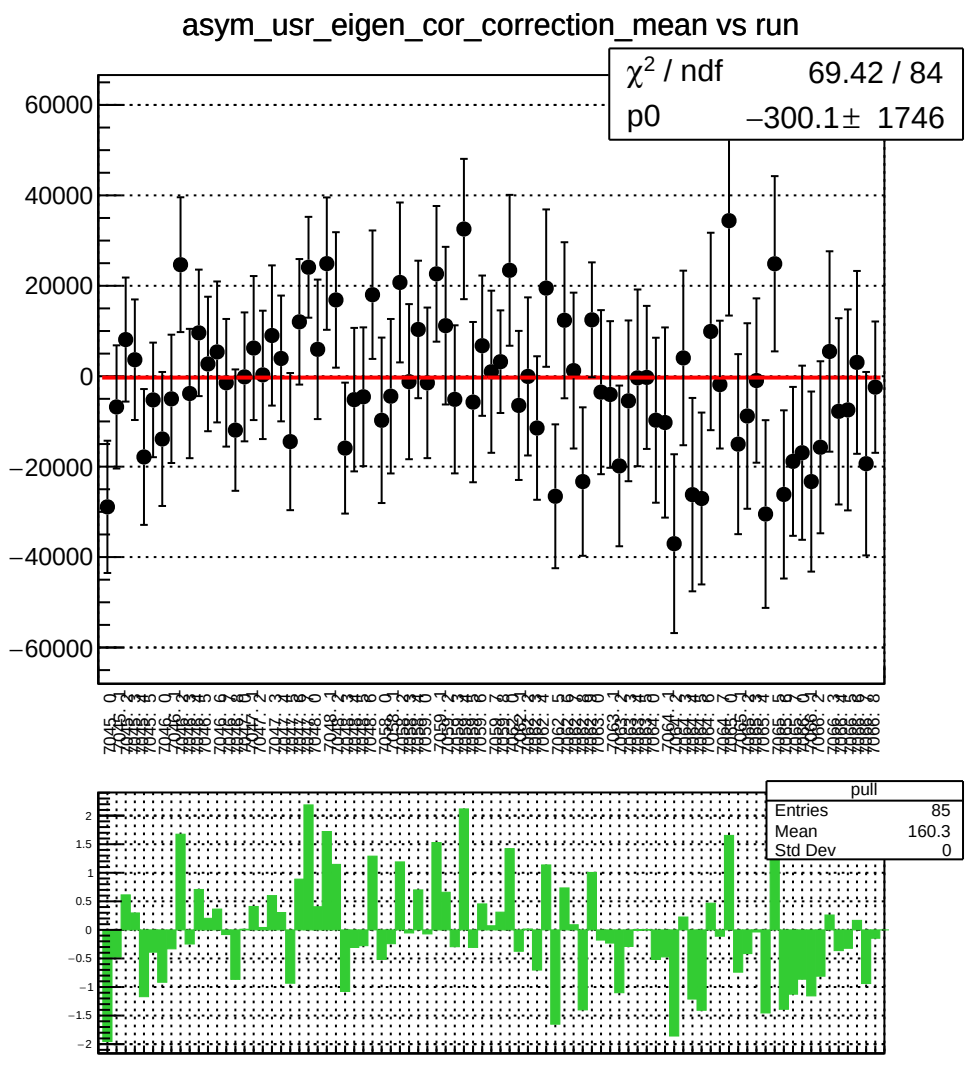

pull1D
Entries 85
Mean −0.03944
Std Dev 0.9012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

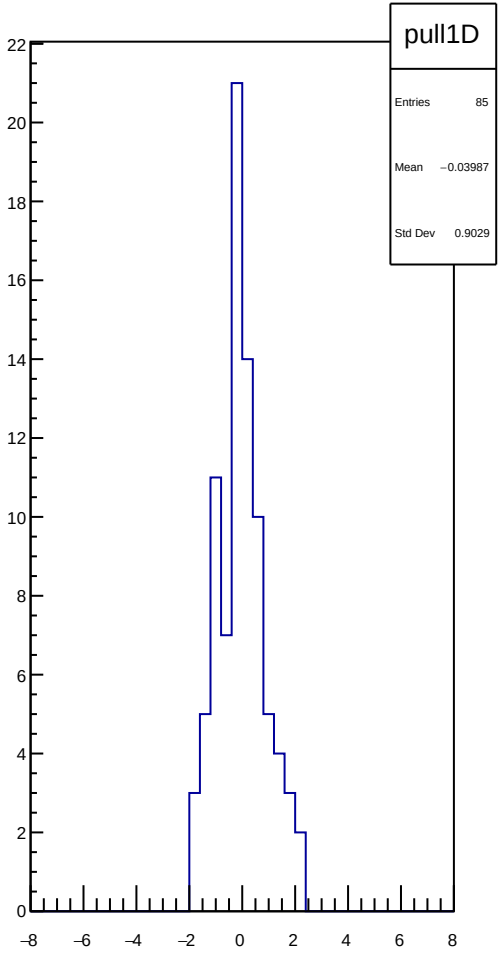

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2.902e+04 / 84
p0 1572 ± 1.236
2200
2000
1800
1600
1400
1200

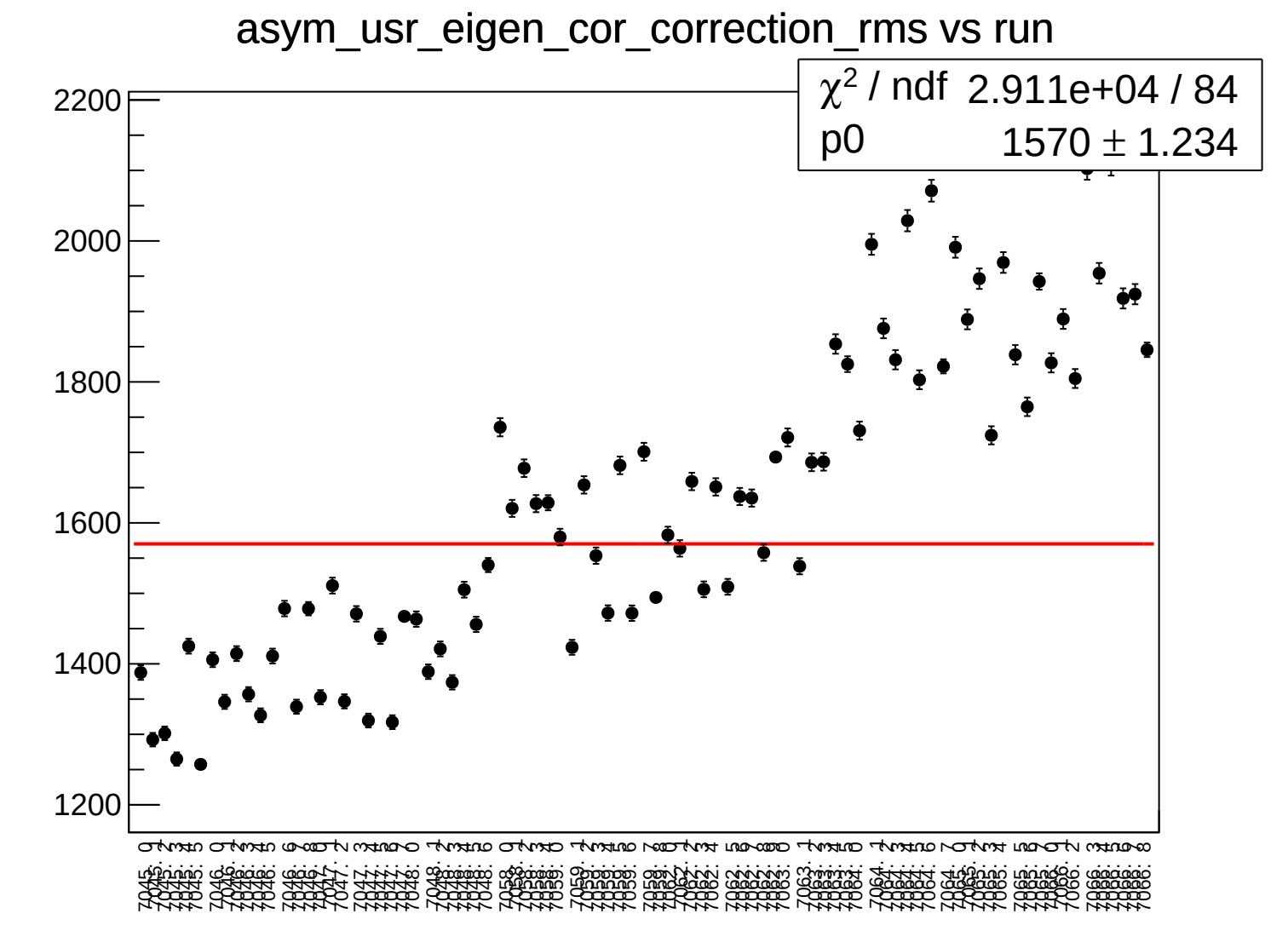

eigen_cor_asym_usr_mean vs run
χ² / ndf 117.3 / 84
p0 1040 ± 1196
pull
Entries 85
Mean −820.3
Std Dev 0

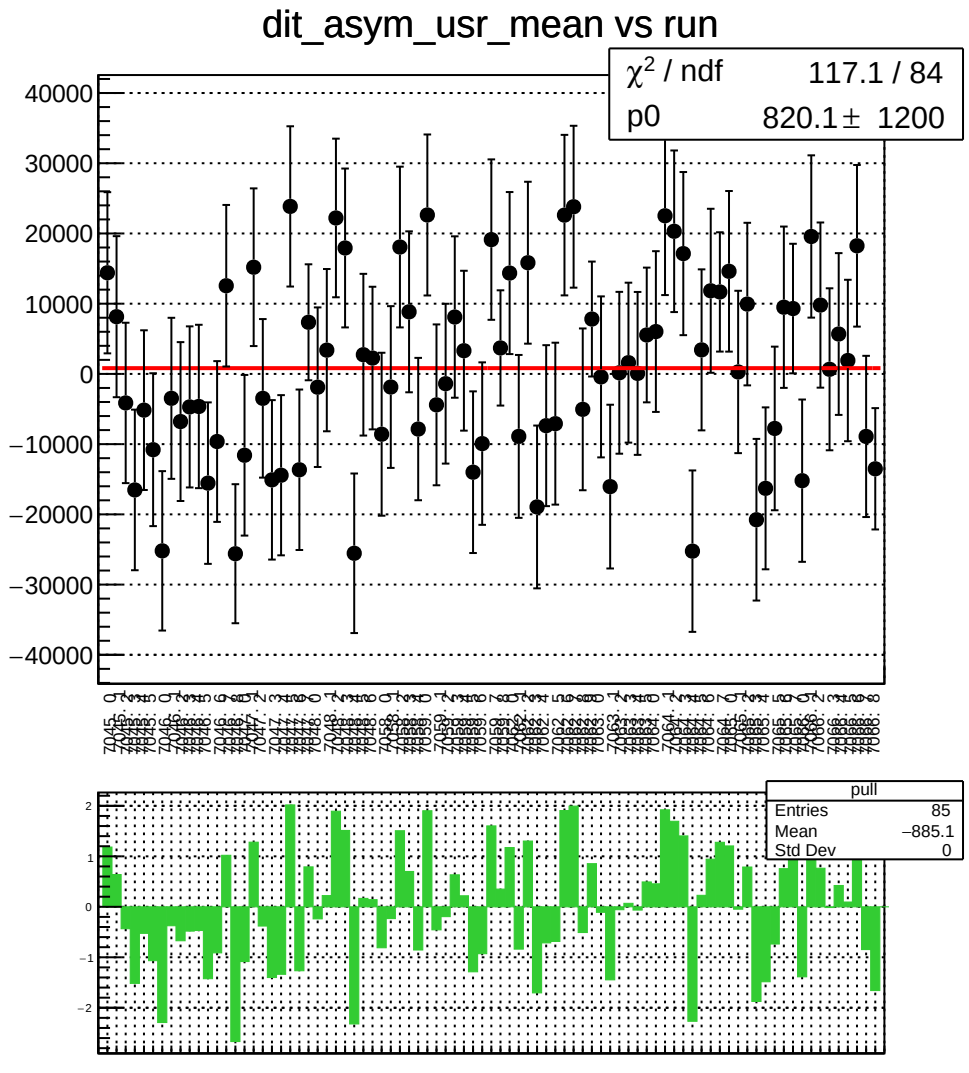

pull1D
Entries 85
Mean −0.006428
Std Dev 1.175

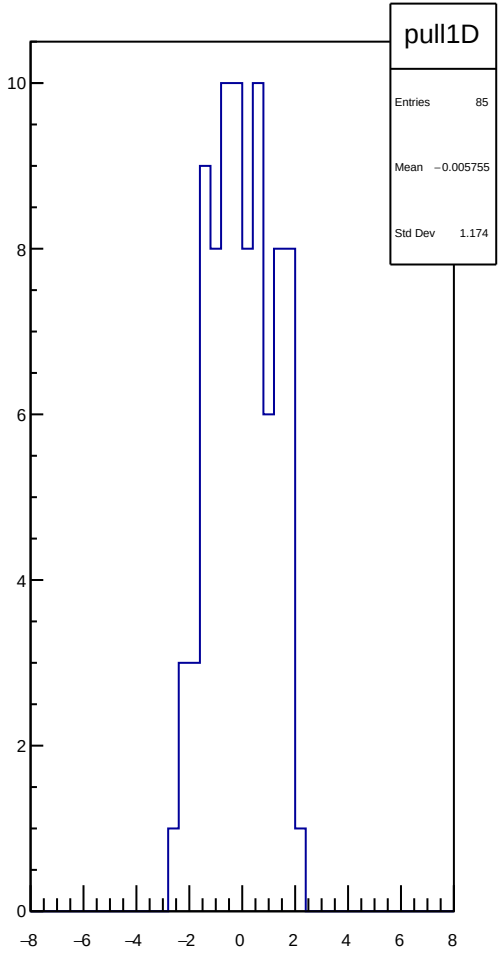

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 96.13 / 84
p0 1085 ± 0.8455
1110
1100
1090
1080
1070
1060
1050

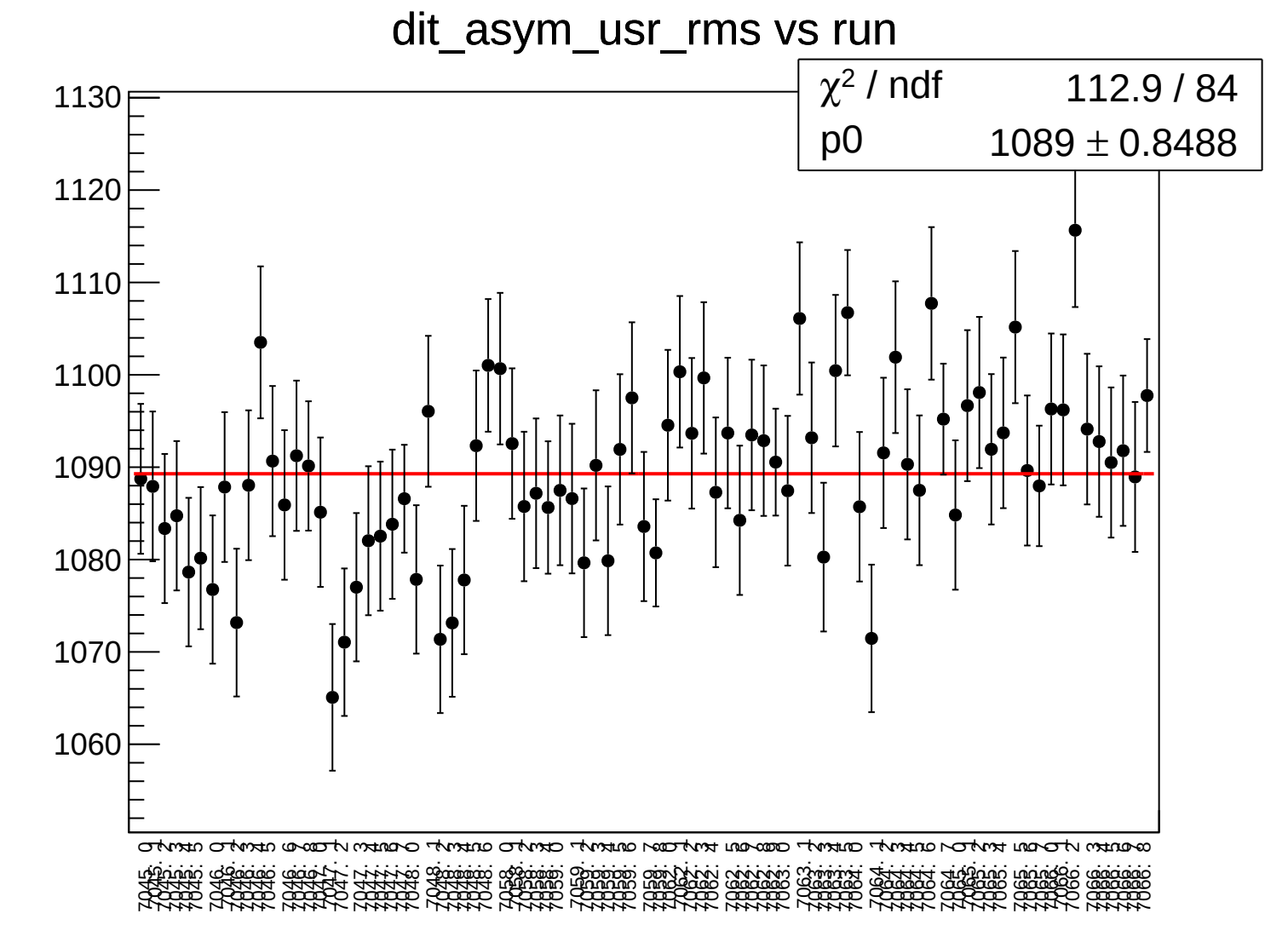

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 69.42 / 84
p0 −300.1± 1746
pull
Entries 85
Mean 160.3
Std Dev 0

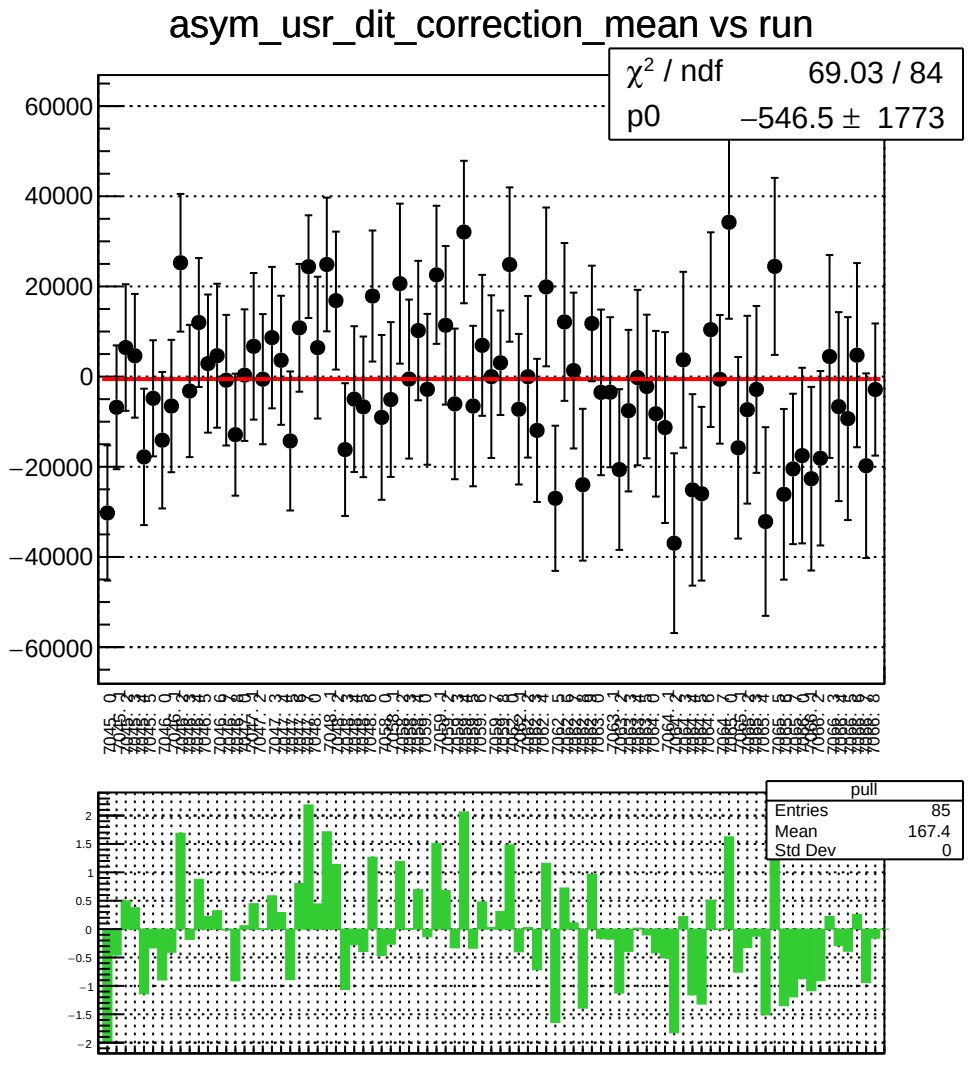

pull1D
Entries 85
Mean −0.03987
Std Dev 0.9029

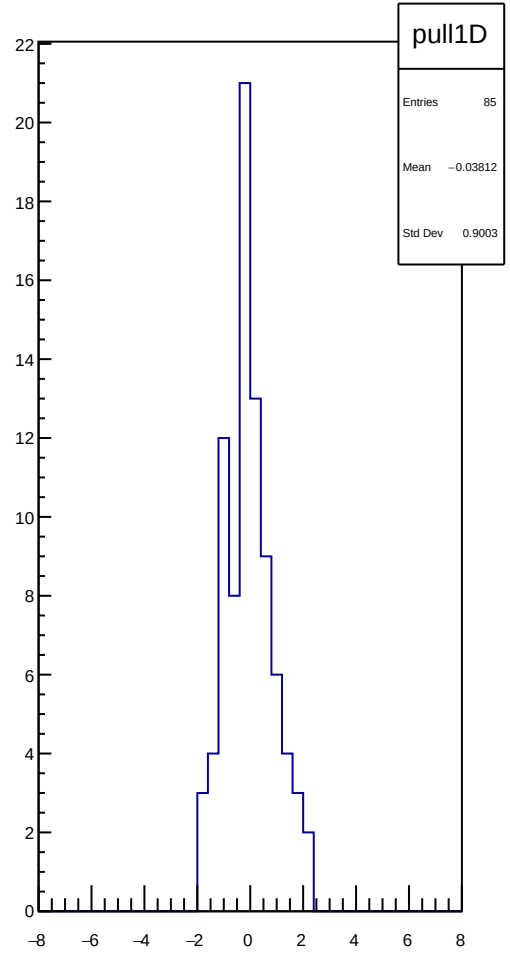

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 2.911e+04 / 84
p0 1570 ± 1.234
2200
2000
1800
1600
1400
1200

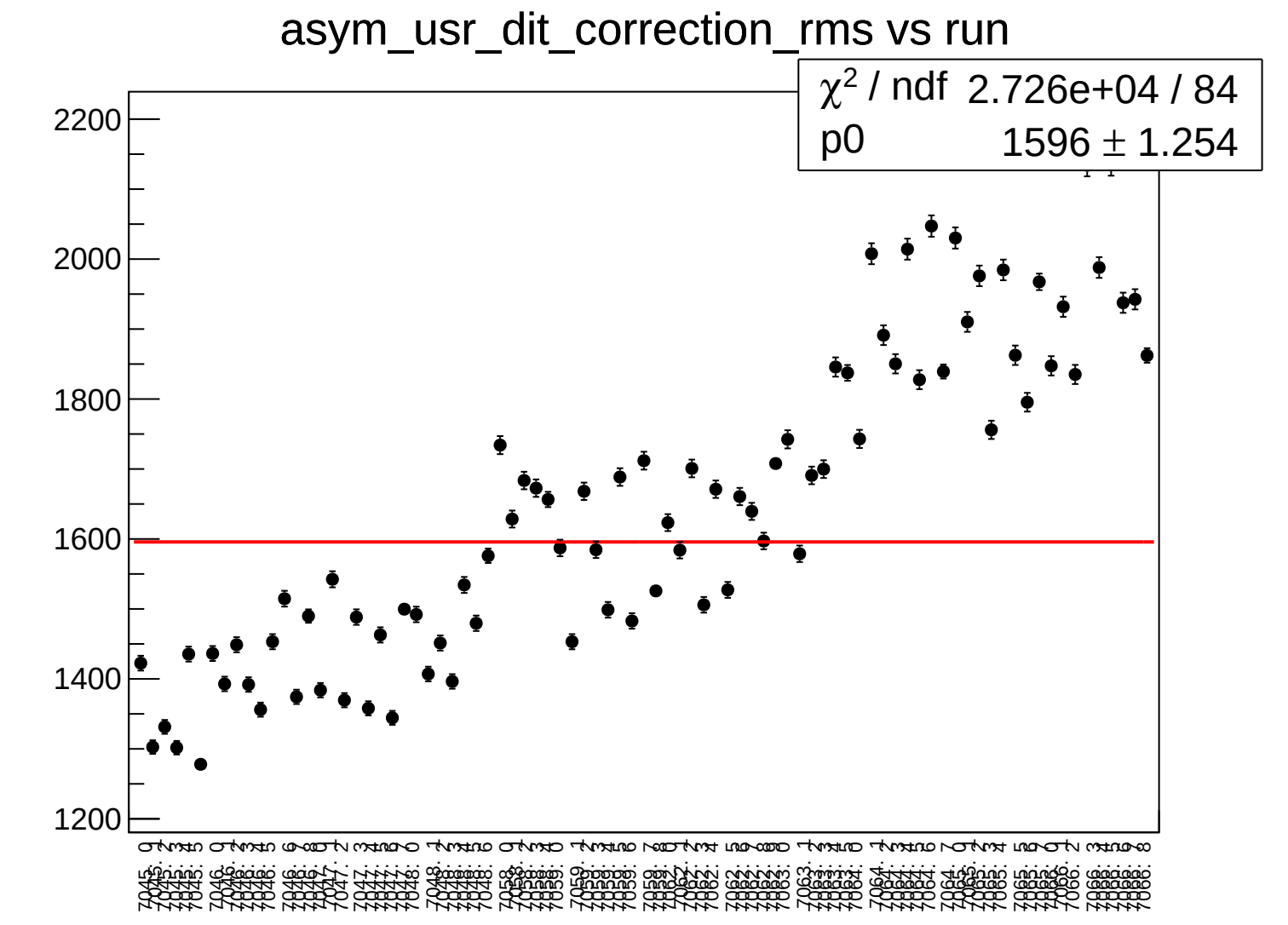

dit_asym_usr_mean vs run
χ^2 / ndf 117.1 / 84
p0 820.1 ± 1200
pull
Entries 85
Mean −885.1
Std Dev 0

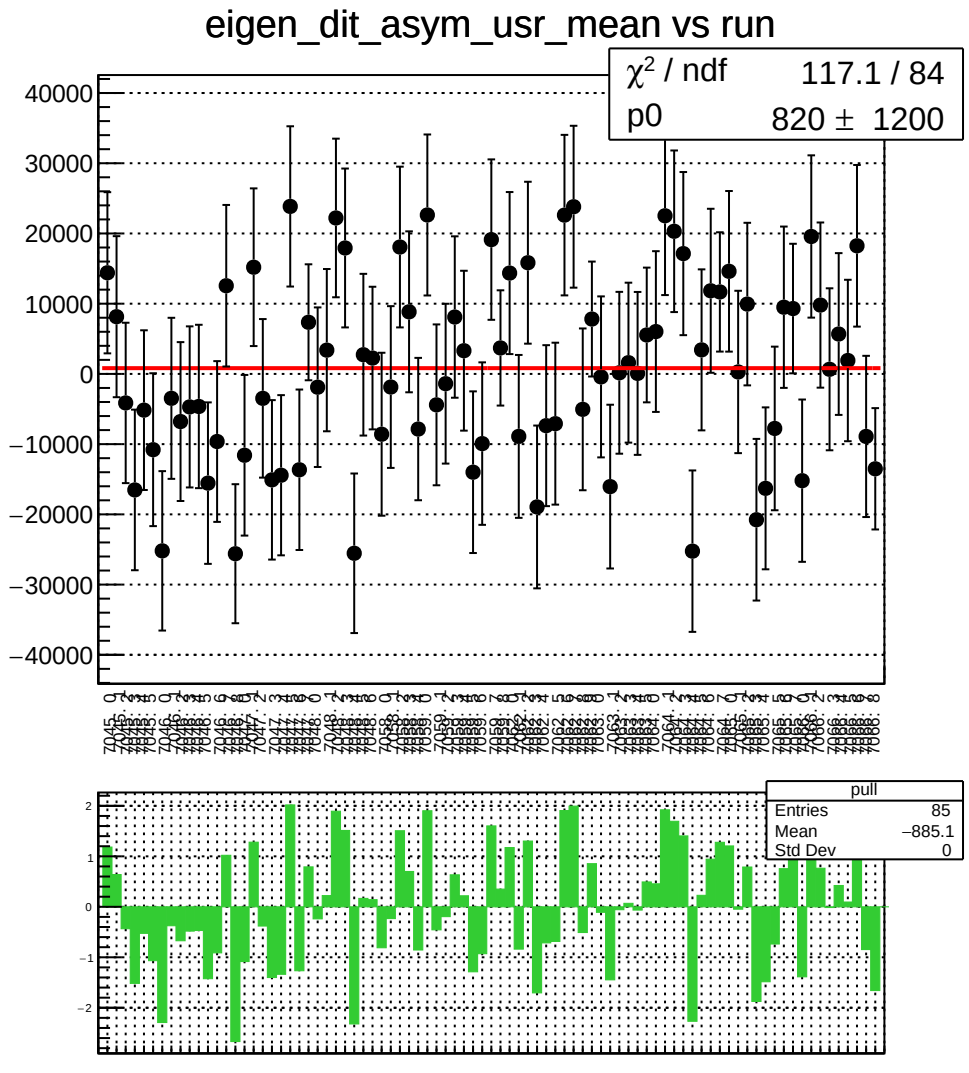

pull1D
Entries 85
Mean −0.005755
Std Dev 1.174

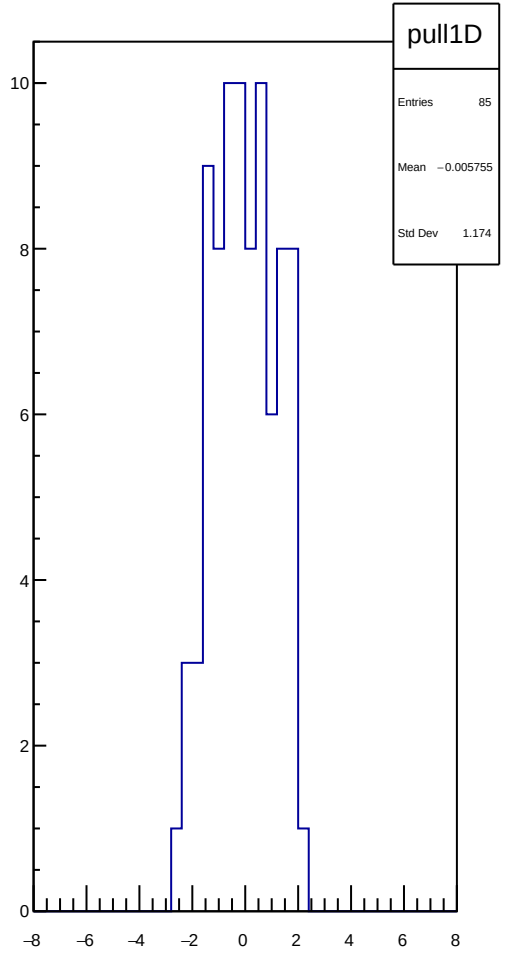

dit_asym_usr_rms vs run
χ² / ndf 112.9 / 84
p0 1089 ± 0.8488
1130
1120
1110
1100
1090
1080
1070
1060

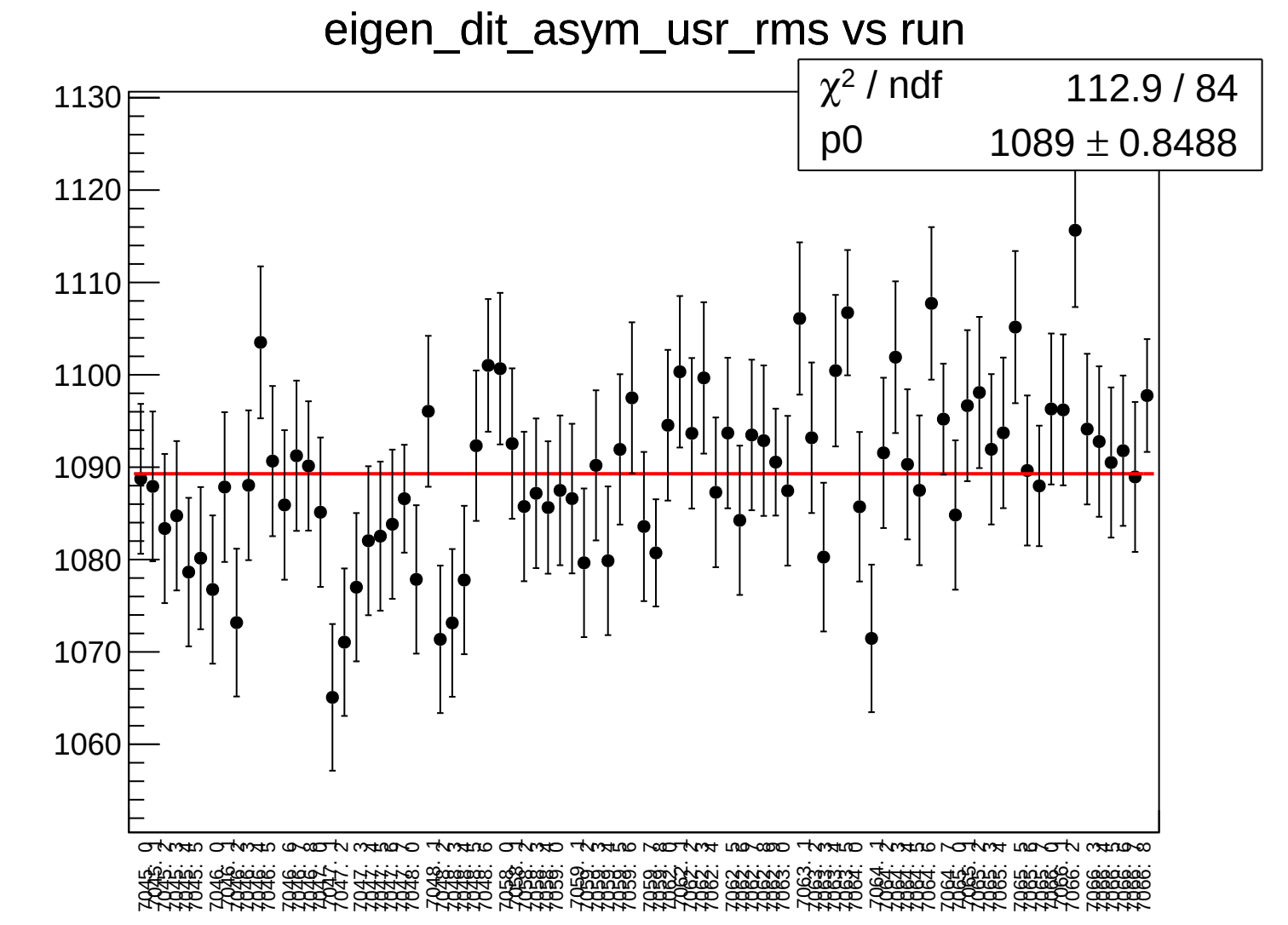

asym_usr_dit_correction_mean vs run
χ² / ndf 69.03 / 84
p0 −546.5 ± 1773
pull
Entries 85
Mean 167.4
Std Dev 0

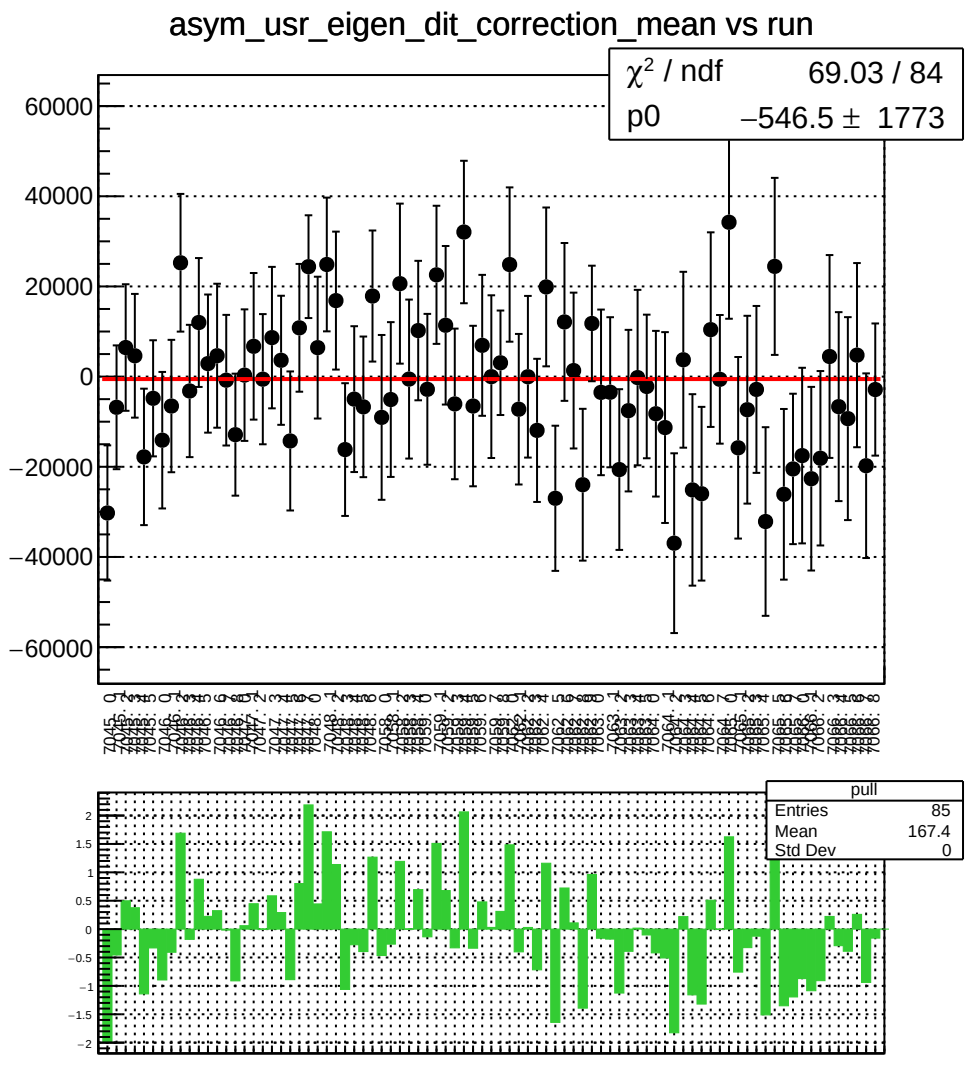

pull1D
Entries 85
Mean −0.03812
Std Dev 0.9003

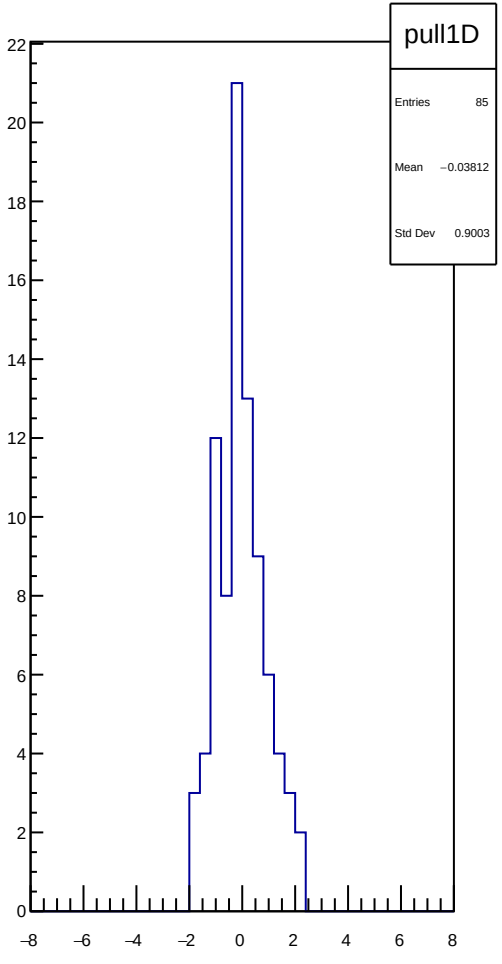

asym_usr_dit_correction_rms vs run
χ² / ndf 2.726e+04 / 84
p0 1596 ± 1.254
2200
2000
1800
1600
1400
1200

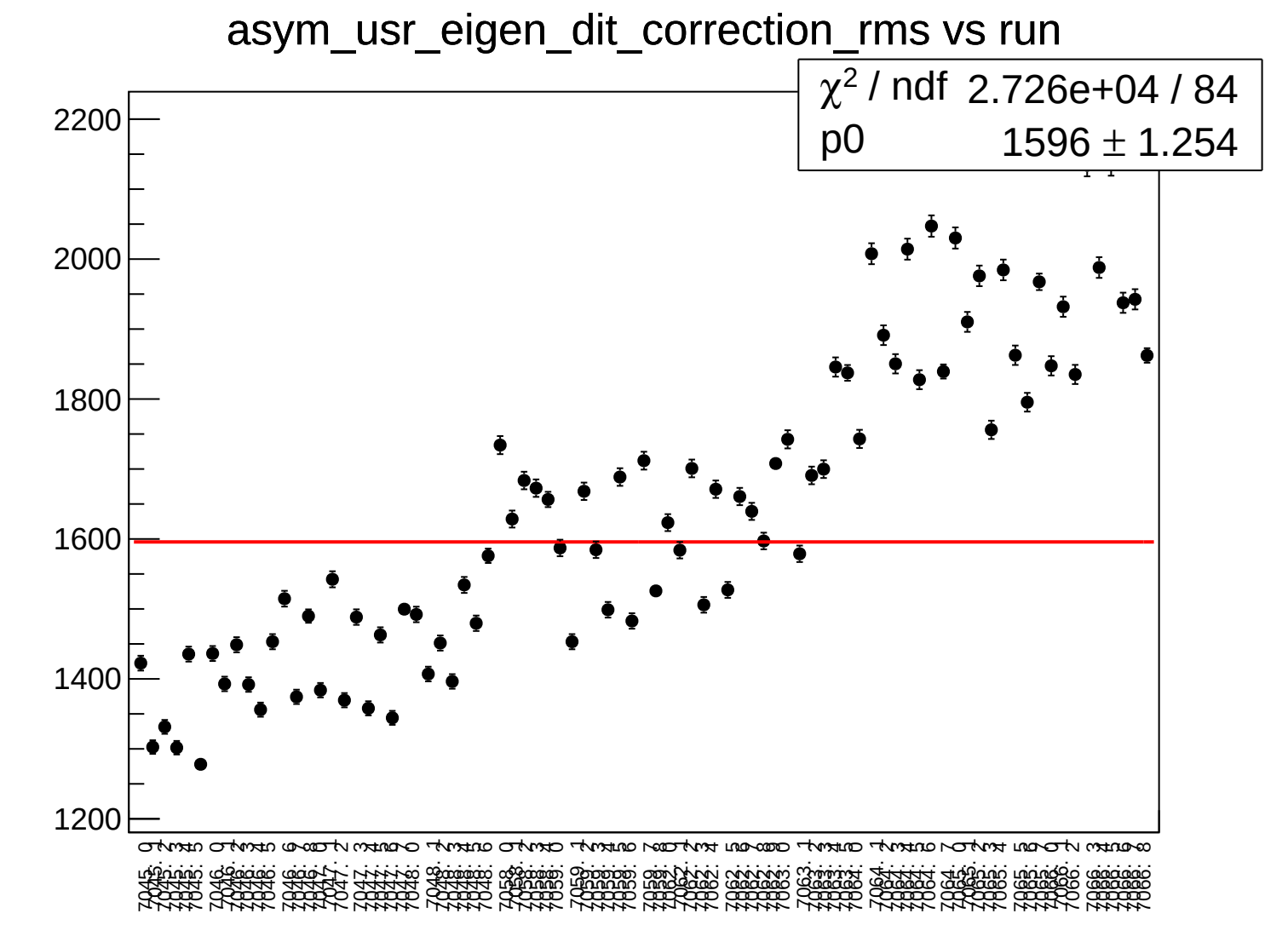

eigen_dit_asym_usr_mean vs run
χ² / ndf 117.1 / 84
p0 820 ± 1200
pull
Entries 85
Mean −885.1
Std Dev 0

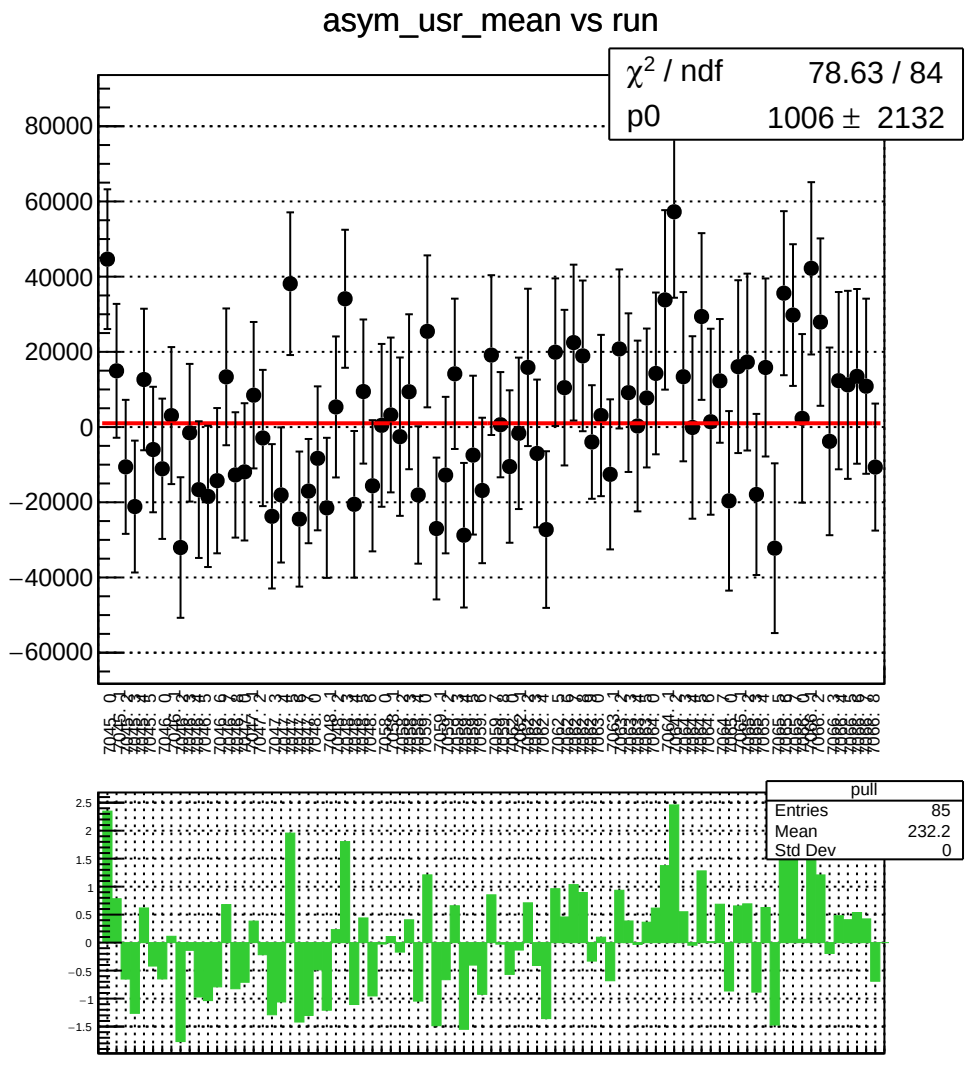

pull1D
Entries 85
Mean −0.005755
Std Dev 1.174

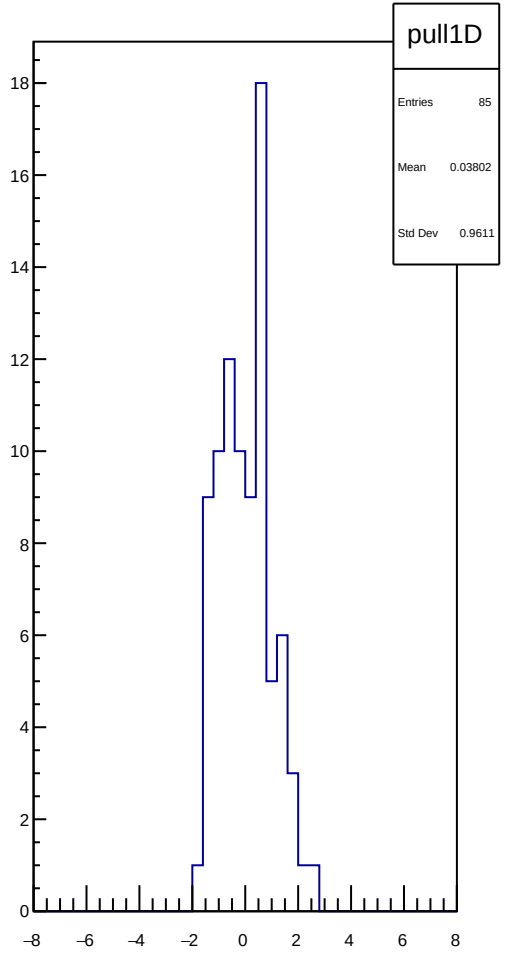

eigen_dit_asym_usr_rms vs run
χ² / ndf 112.9 / 84
p0 1089 ± 0.8488
1130
1120
1110
1100
1090
1080
1070
1060

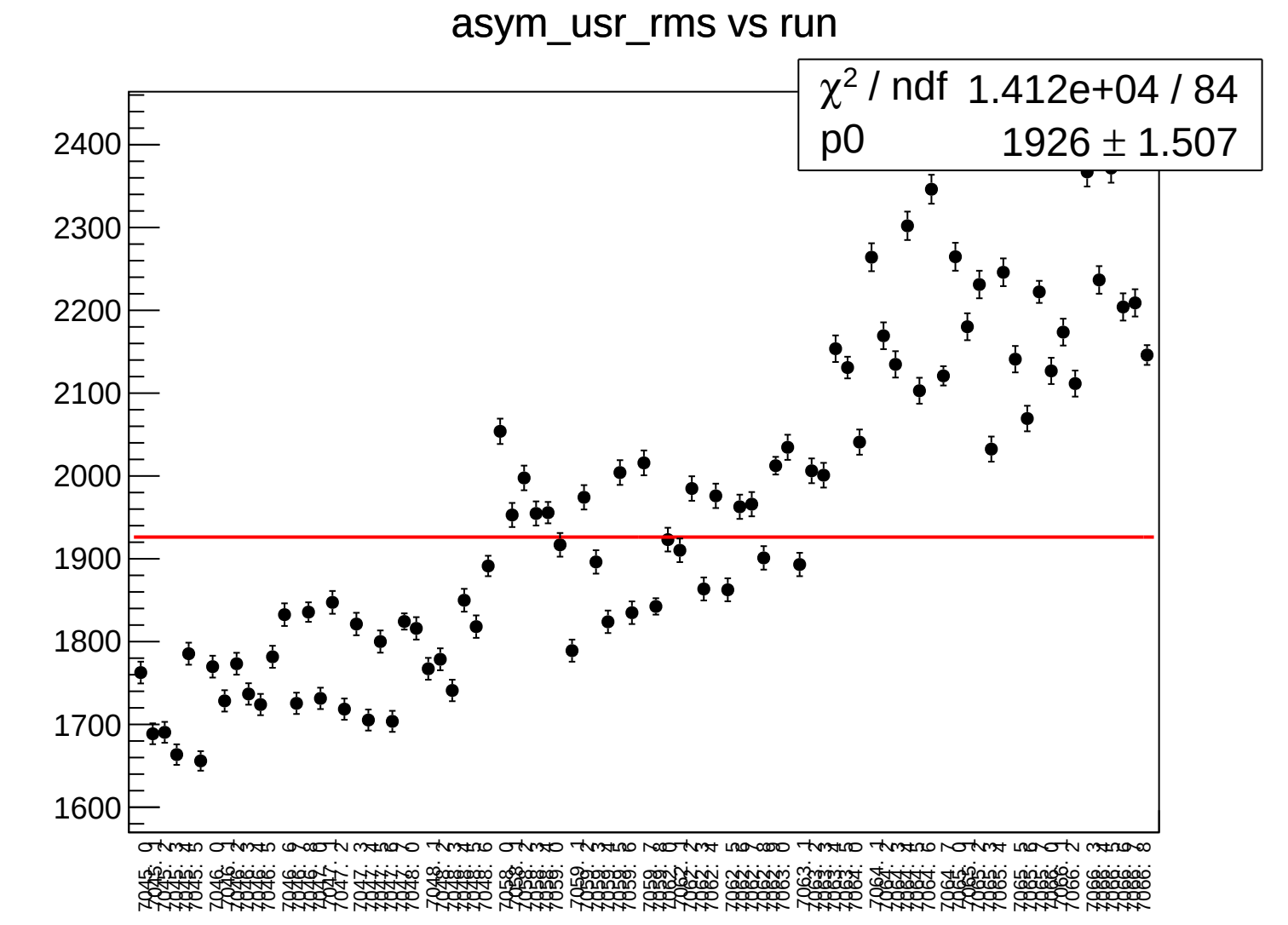

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 69.03 / 84
p0 −546.5 ± 1773
pull
Entries 85
Mean 167.4
Std Dev 0

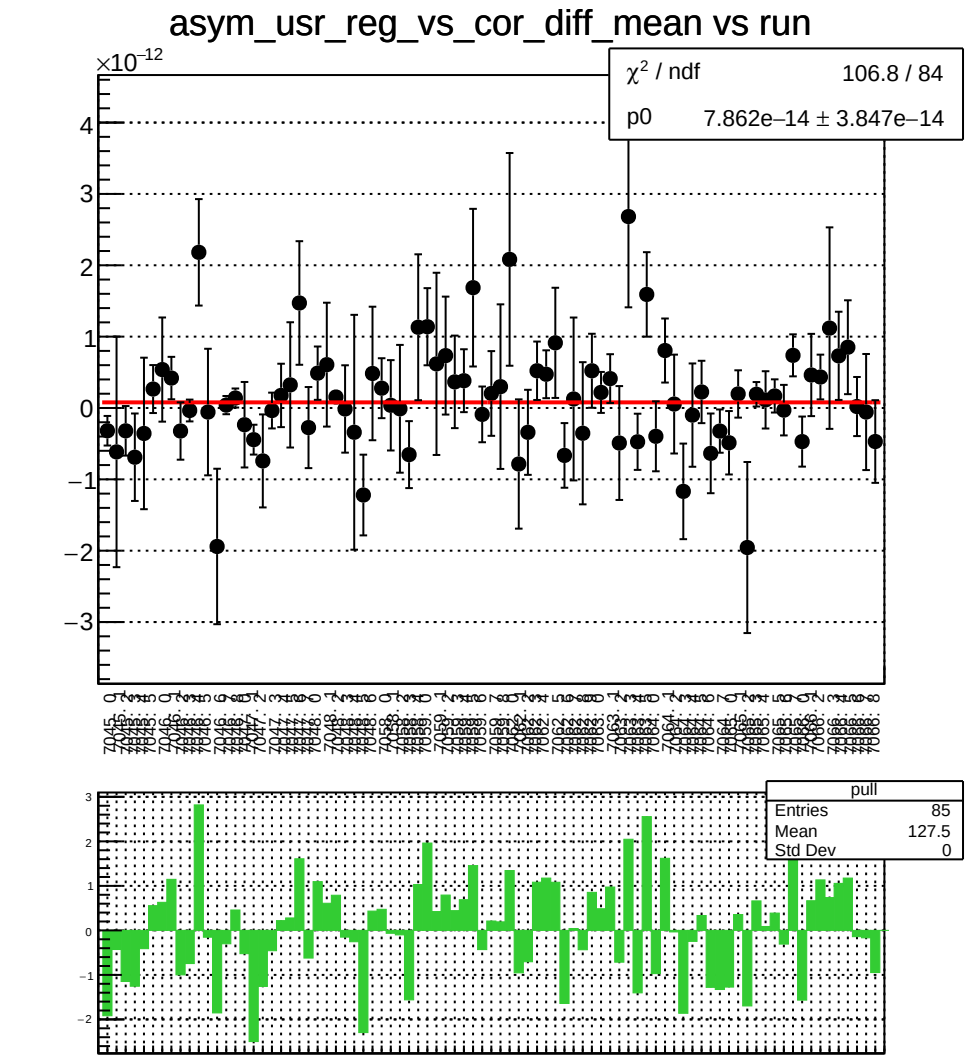

pull1D
Entries 85
Mean −0.03812
Std Dev 0.9003

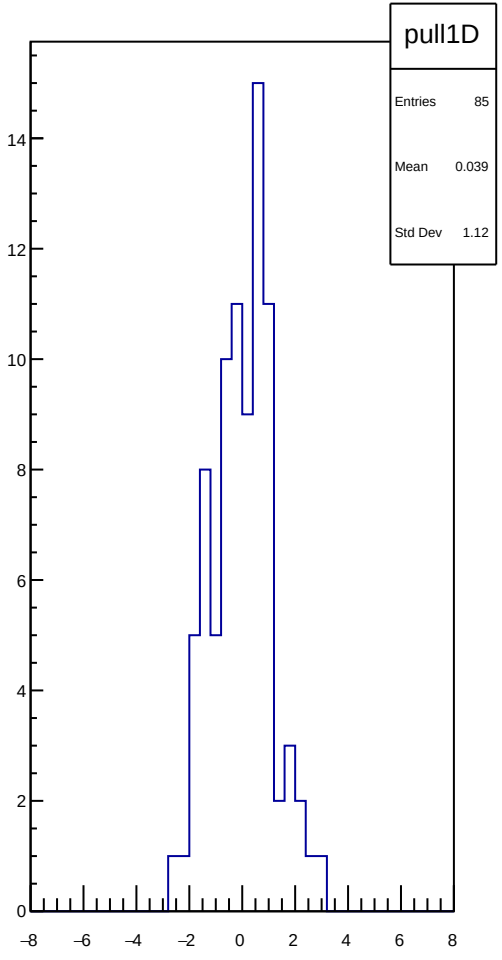

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.726e+04 / 84
p0 1596 ± 1.254
2200
2000
1800
1600
1400
1200

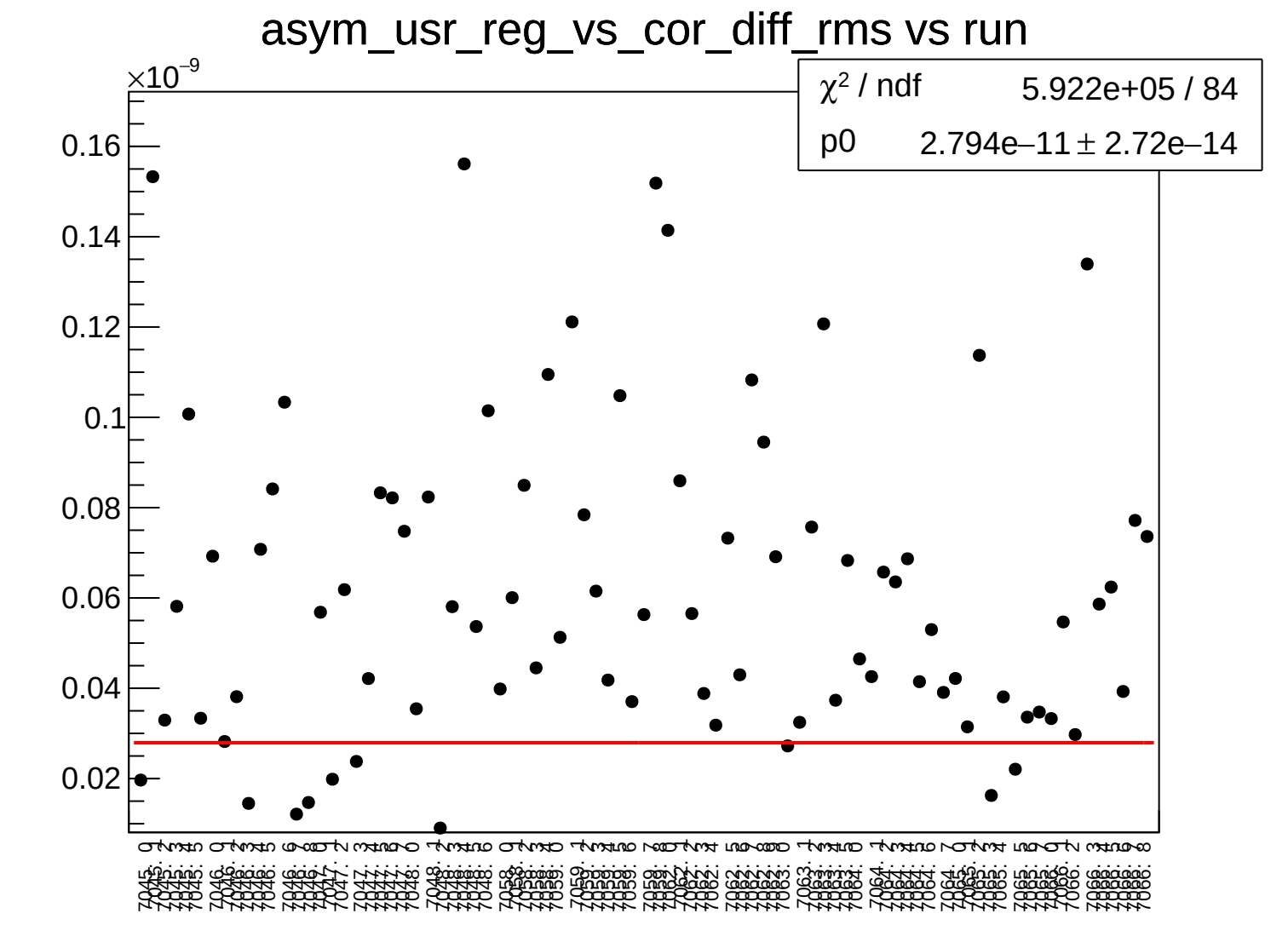

asym_usr_mean vs run
χ² / ndf 78.63 / 84
p0 1006 ± 2132
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 232.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

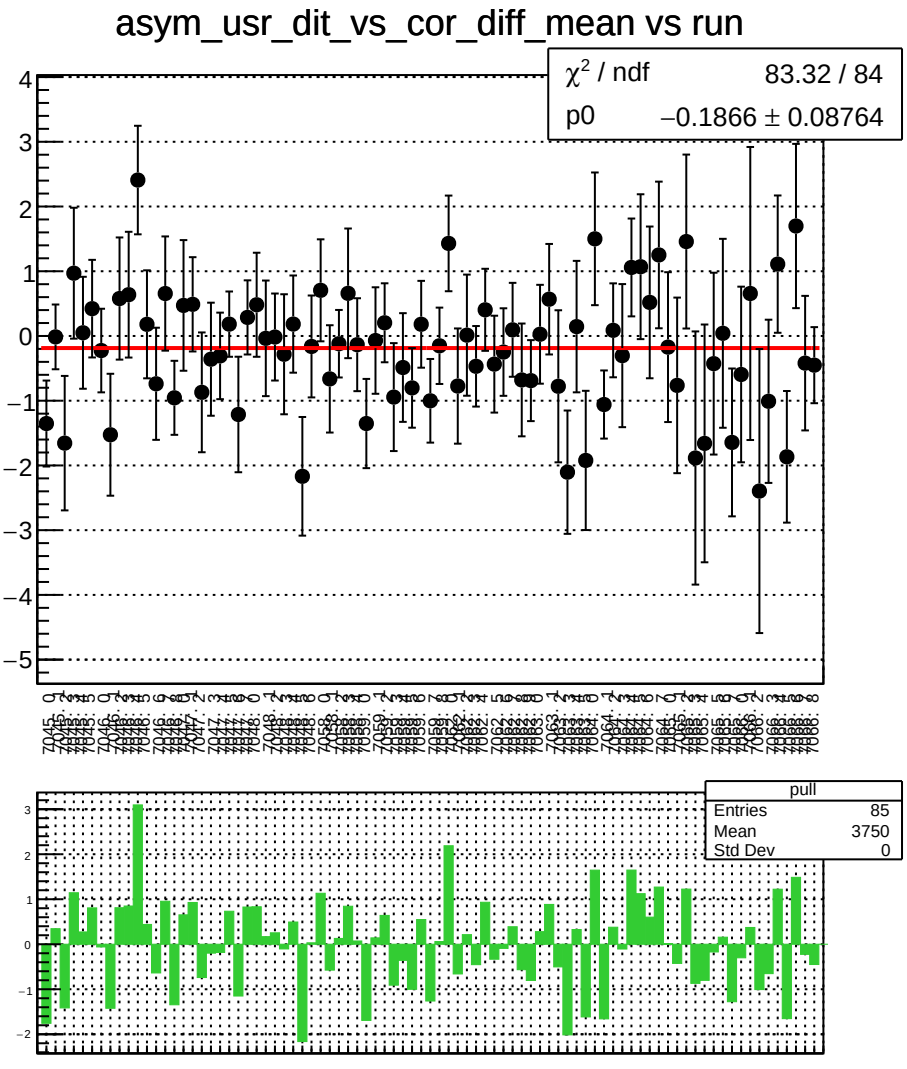

pull1D
Entries 85
Mean 0.03802
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

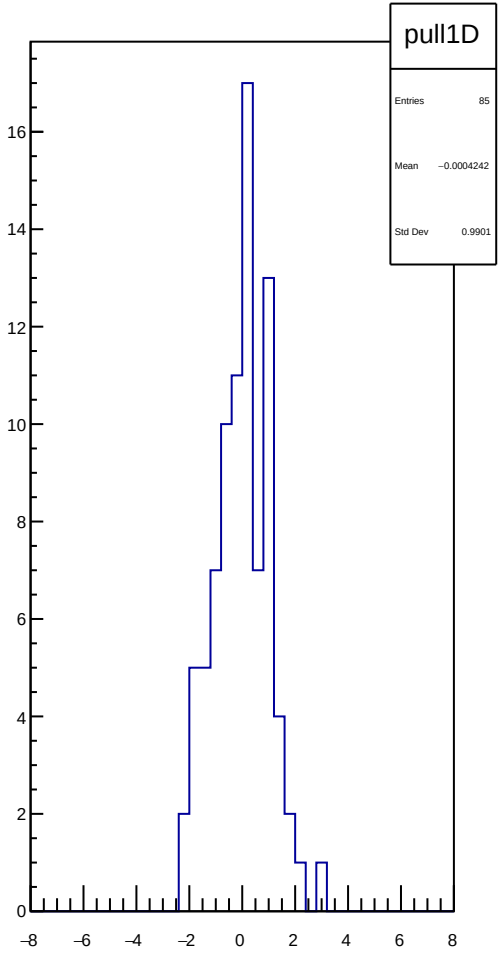

asym_usr_rms vs run
χ² / ndf 1.412e+04 / 84
p0 1926 ± 1.507
2400
2300
2200
2100
2000
1900
1800
1700
1600

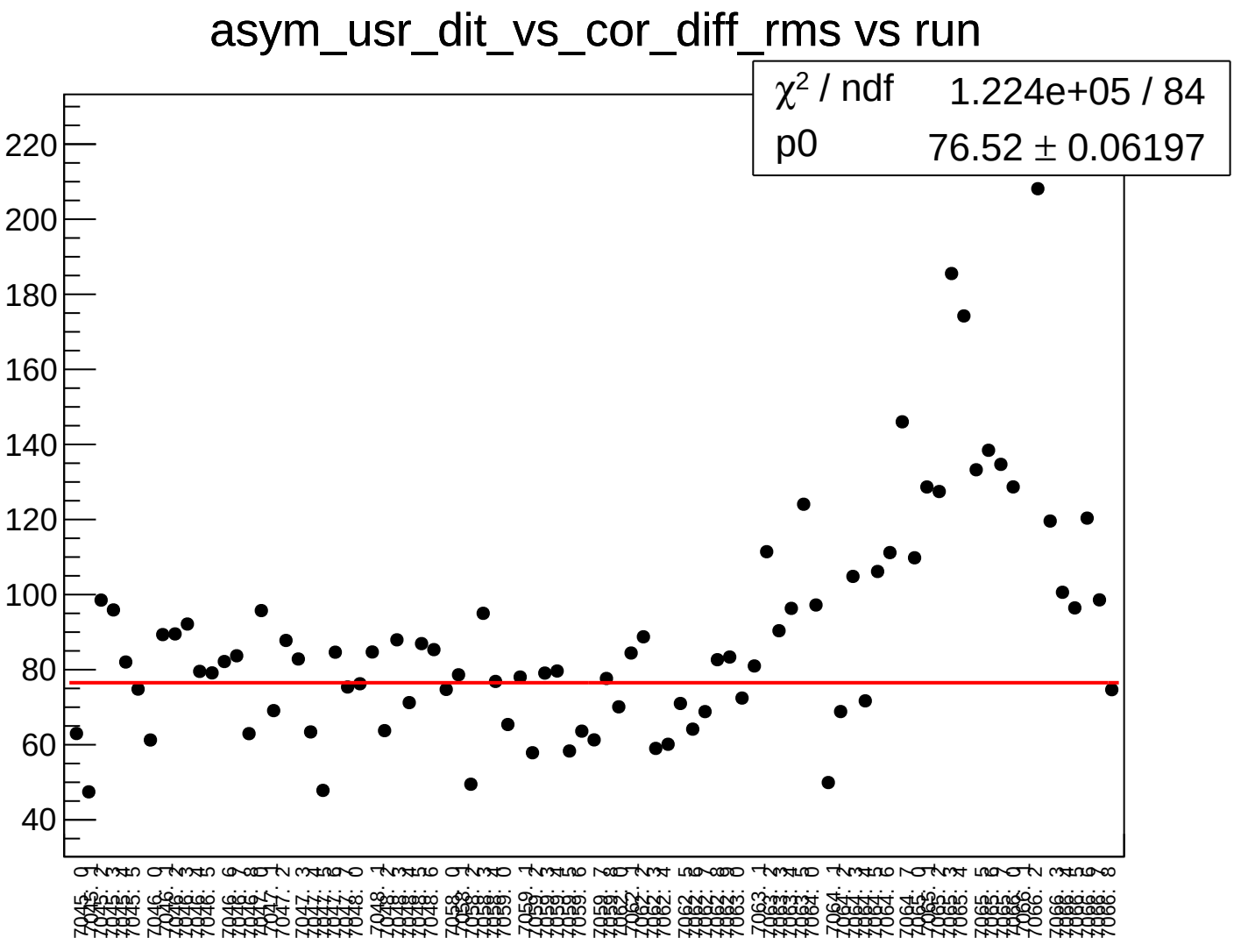

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.8 / 84
p0 7.862e−14 ± 3.847e−14
pull
Entries 85
Mean 127.5
Std Dev 0

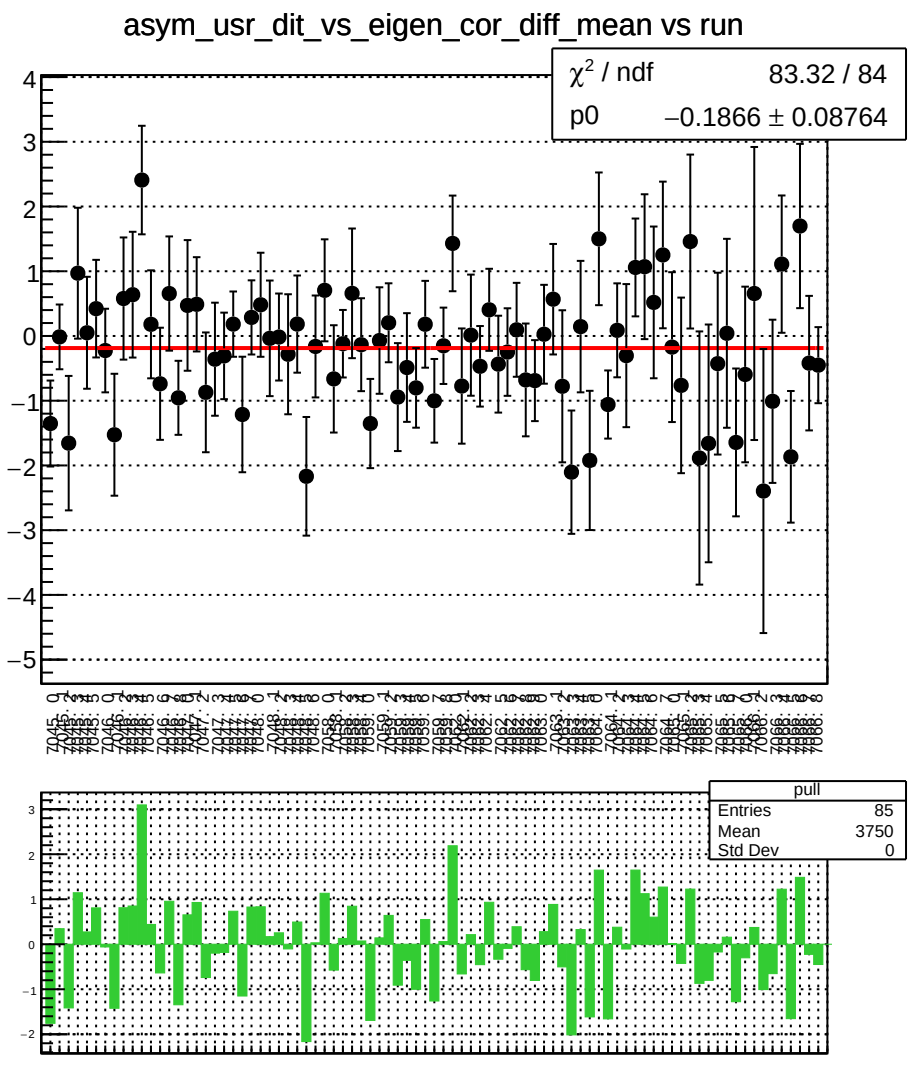

pull1D
Entries 85
Mean 0.039
Std Dev 1.12

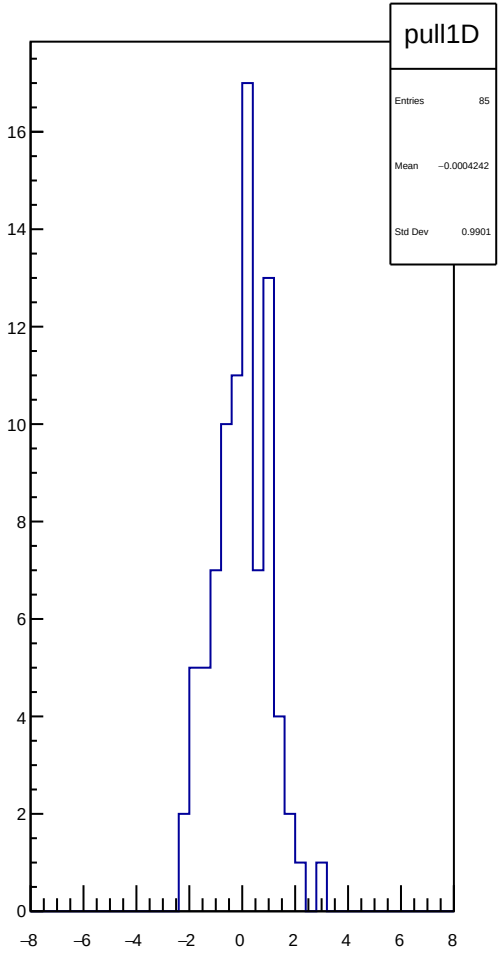

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.922e+05 / 84
p0 2.794e−11 ± 2.72e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

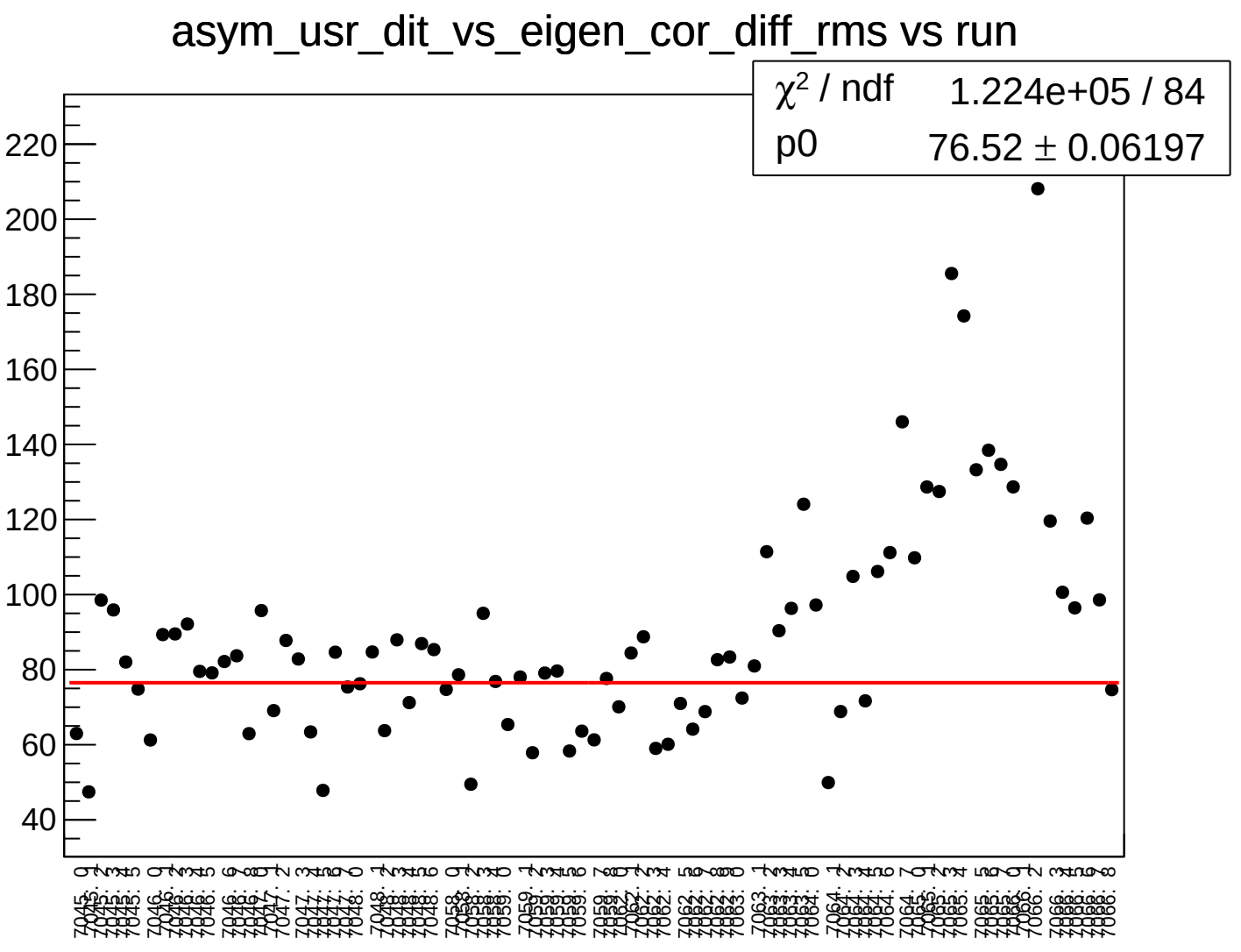

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 83.32 / 84
p0 −0.1866 ± 0.08764
pull
Entries 85
Mean 3750
Std Dev 0

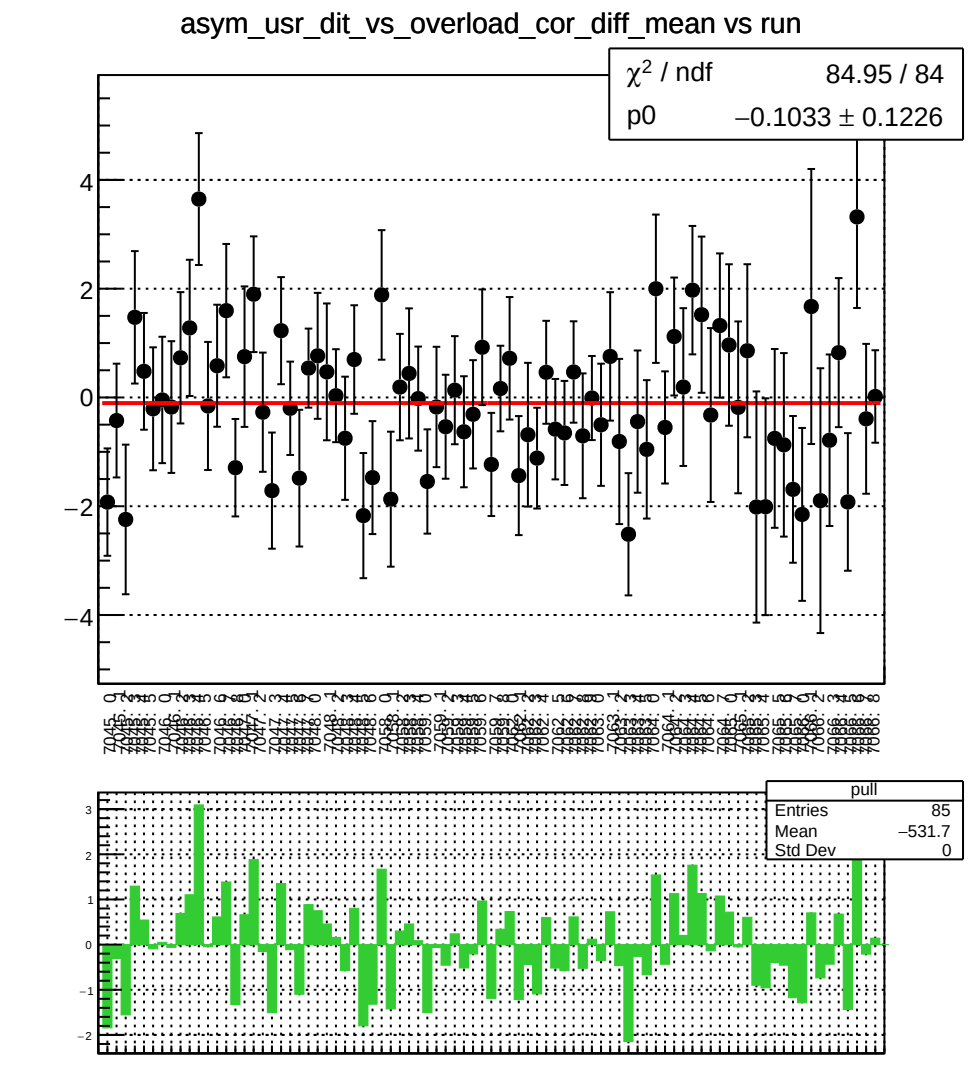

pull1D
Entries 85
Mean −0.0004242
Std Dev 0.9901

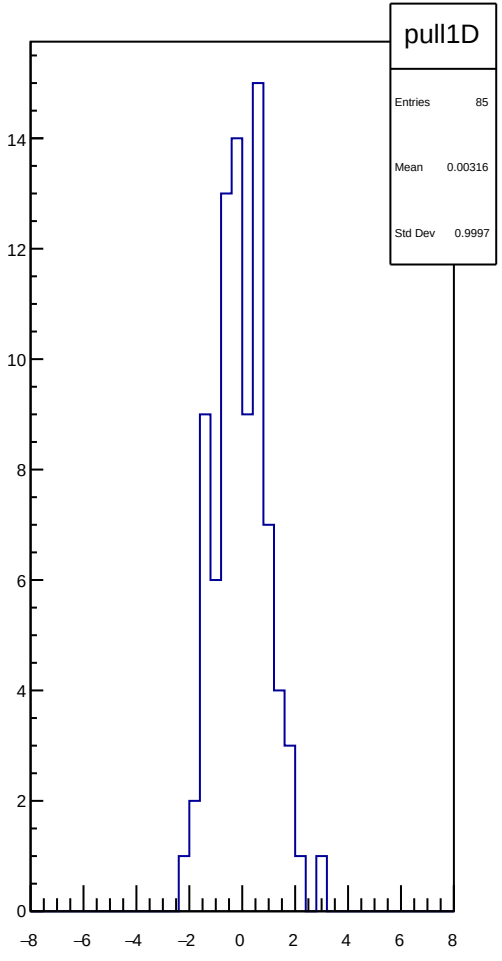

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.224e+05 / 84
p0 76.52 ± 0.06197
220
200
180
160
140
120
100
80
60
40

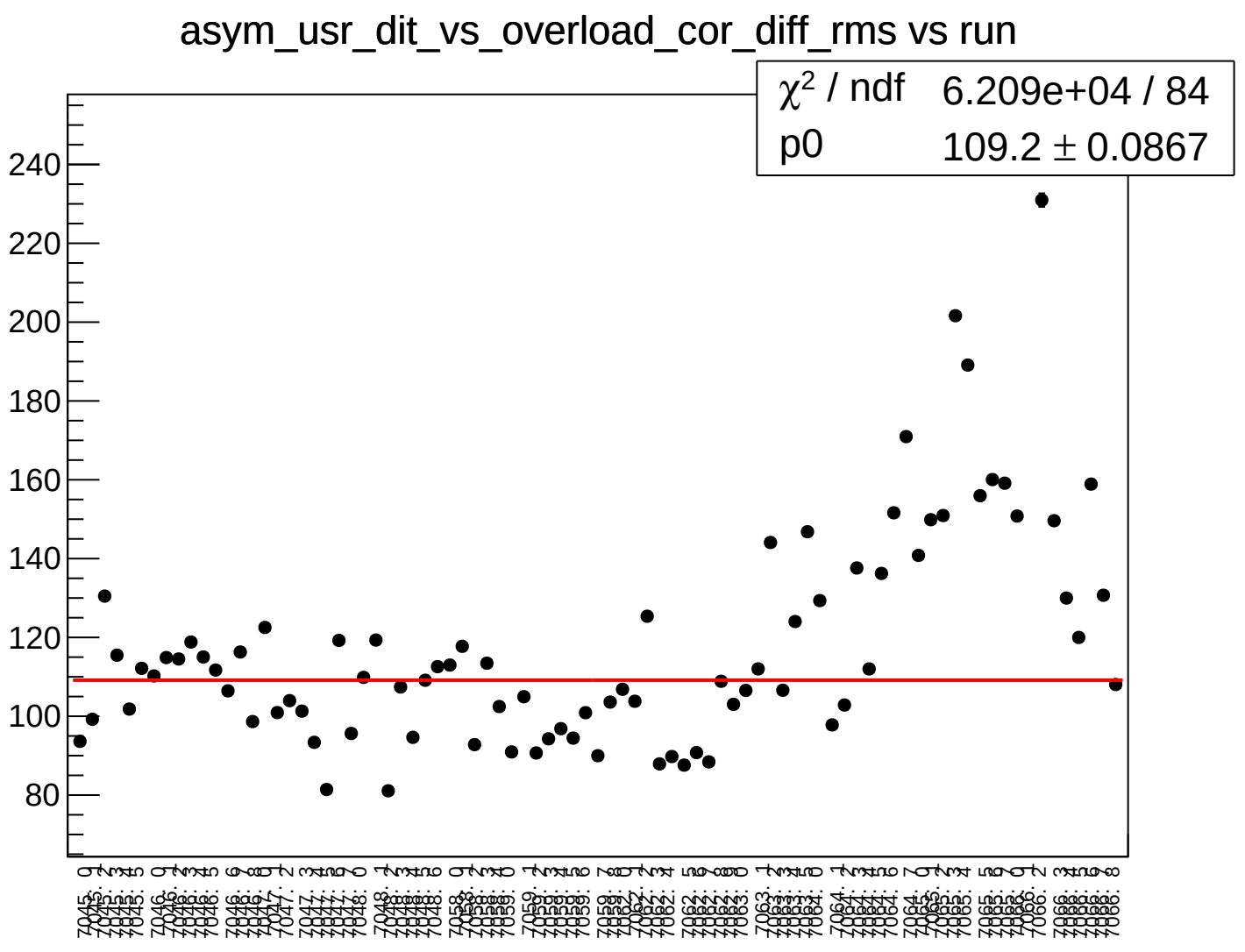

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.32 / 84
p0 −0.1866 ± 0.08764
pull
Entries 85
Mean 3750
Std Dev 0

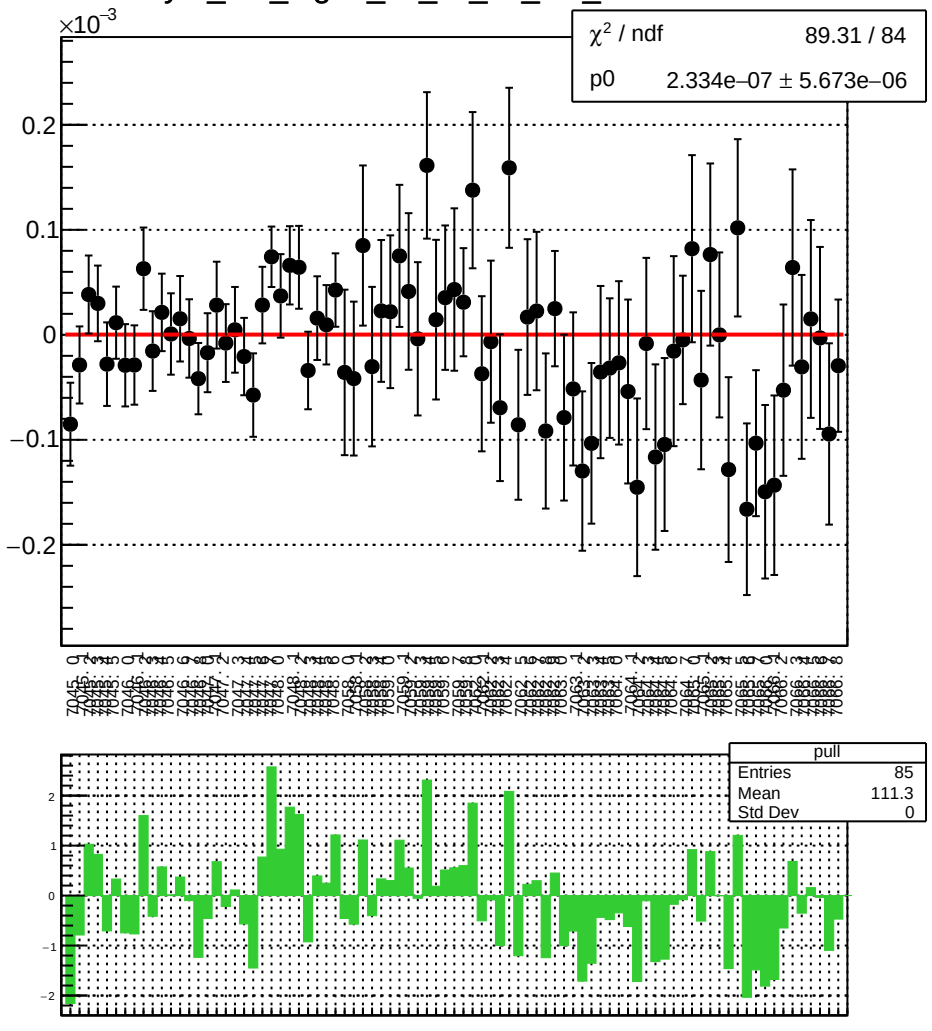

pull1D
Entries 85
Mean −0.0004242
Std Dev 0.9901

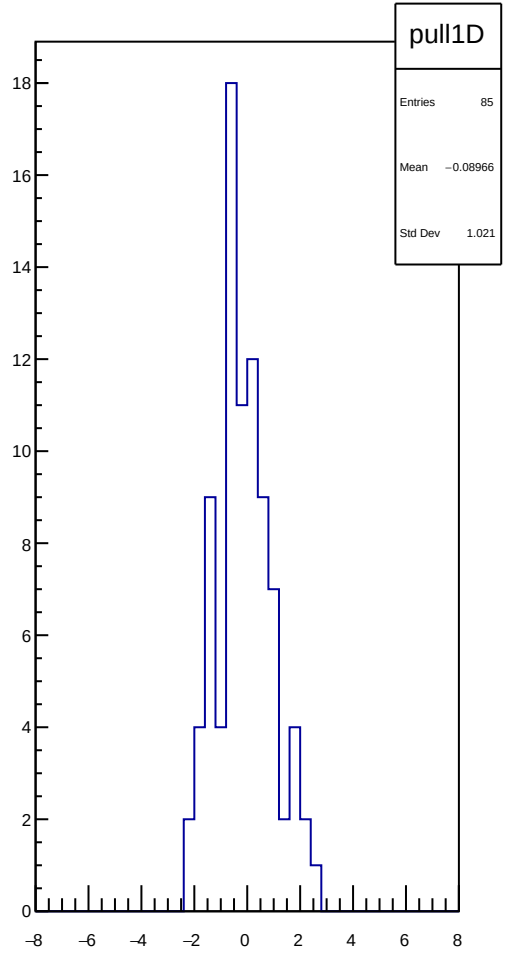

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.224e+05 / 84
p0 76.52 ± 0.06197
220
200
180
160
140
120
100
80
60
40

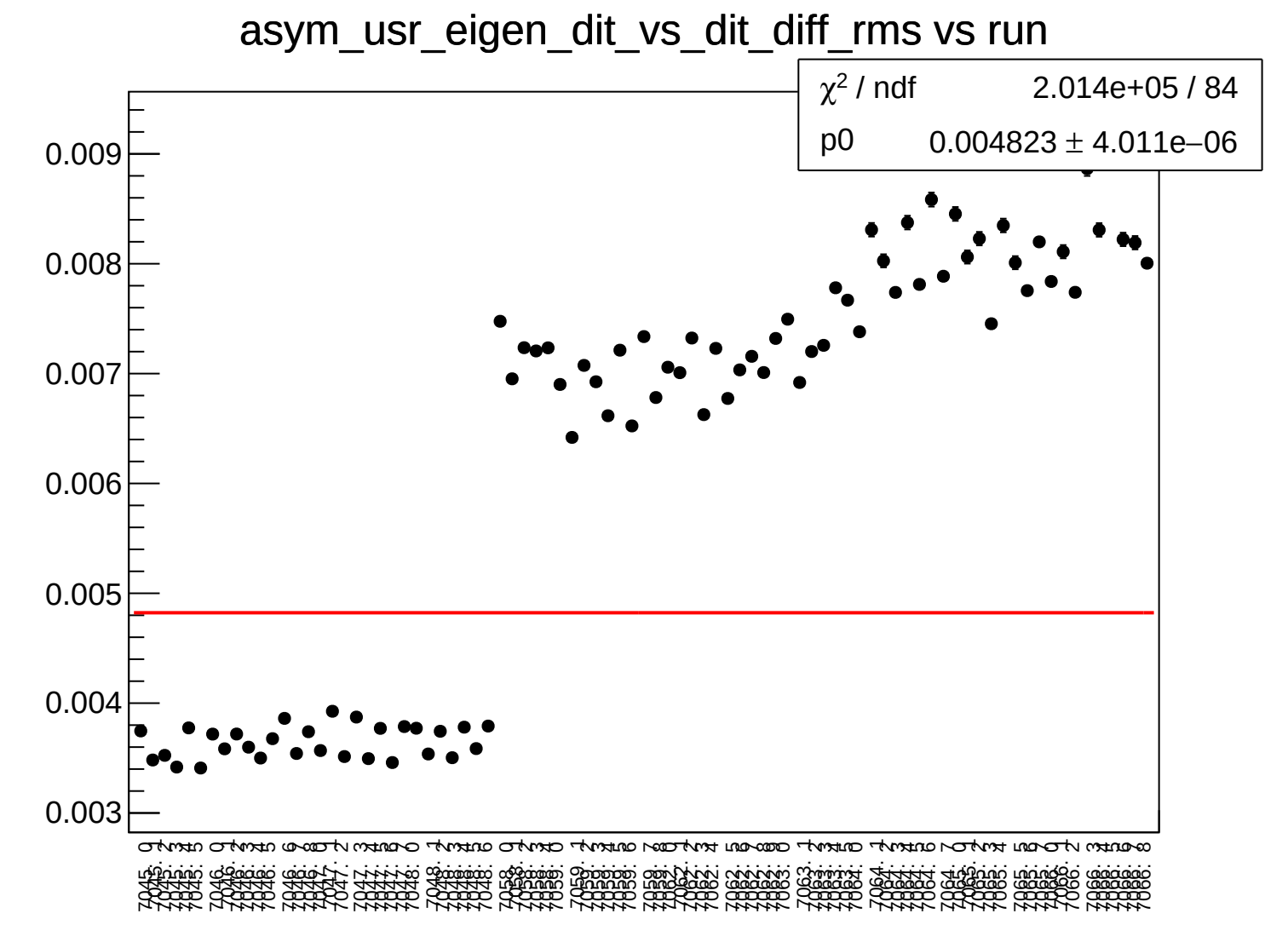

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.95 / 84
p0 −0.1033 ± 0.1226
pull
Entries 85
Mean −531.7
Std Dev 0

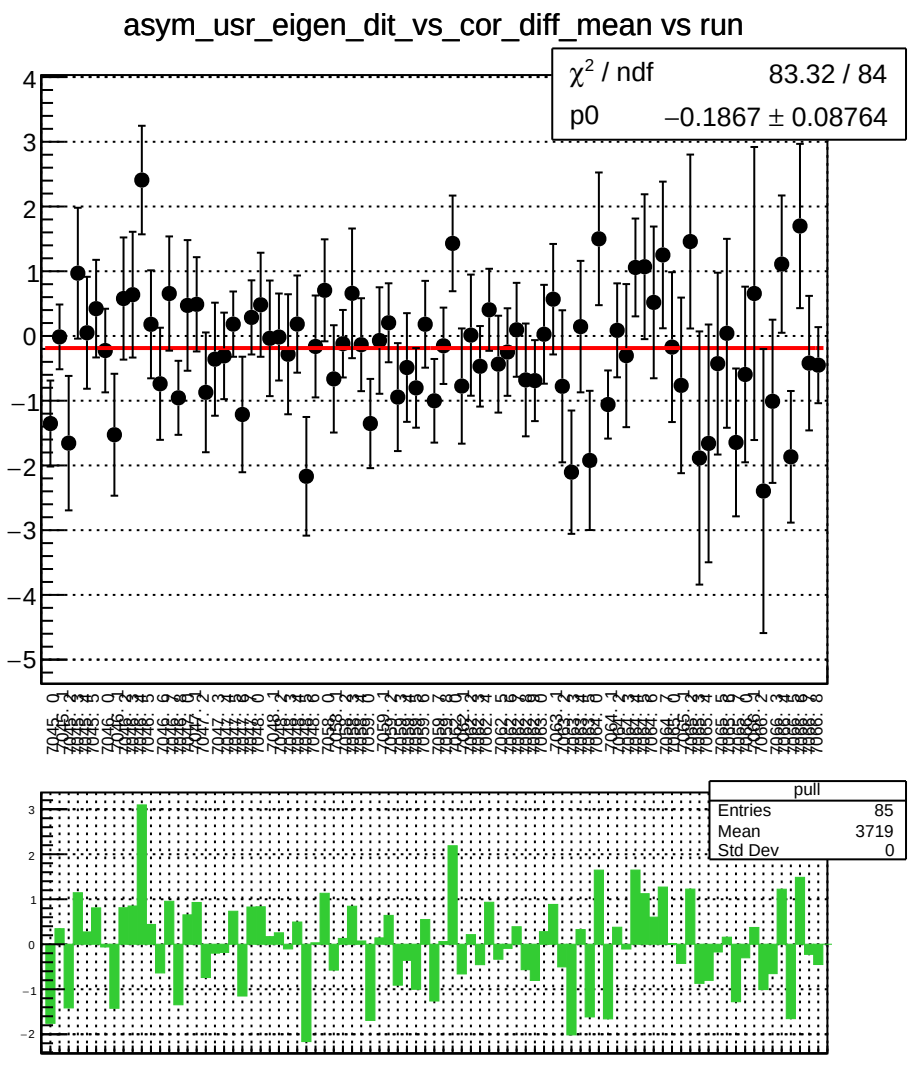

pull1D
Entries 85
Mean 0.00316
Std Dev 0.9997

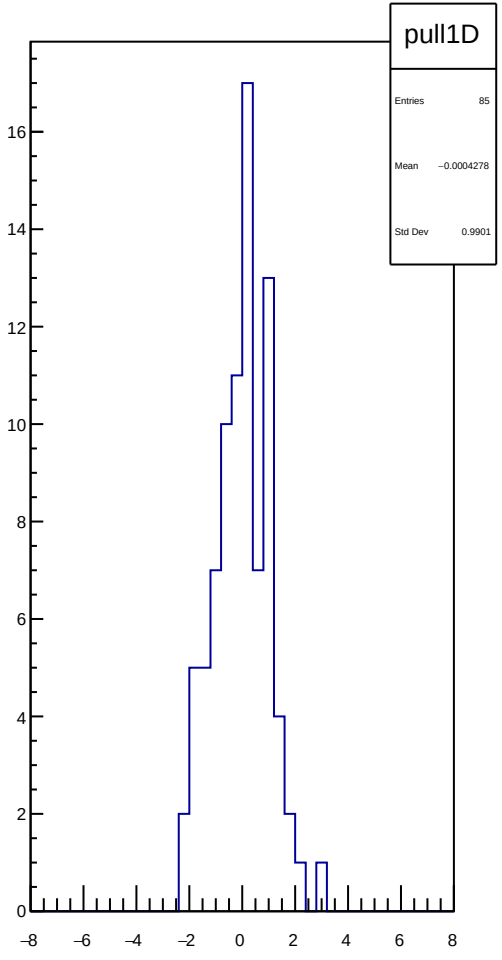

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.209e+04 / 84
p0 109.2 ± 0.0867
240
220
200
180
160
140
120
100
80

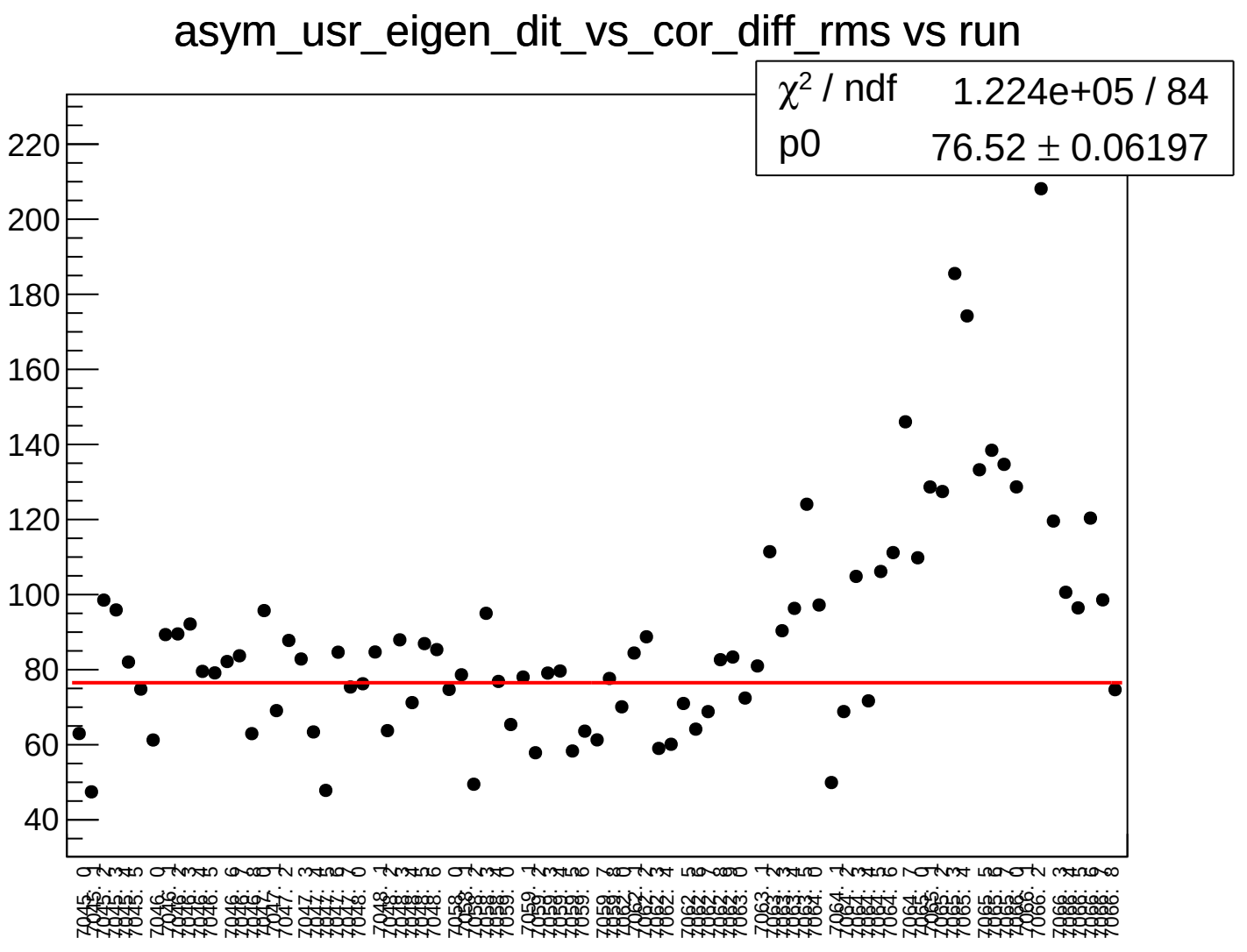

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.31 / 84
p0 2.334e−07 ± 5.673e−06
pull
Entries 85
Mean 111.3
Std Dev 0

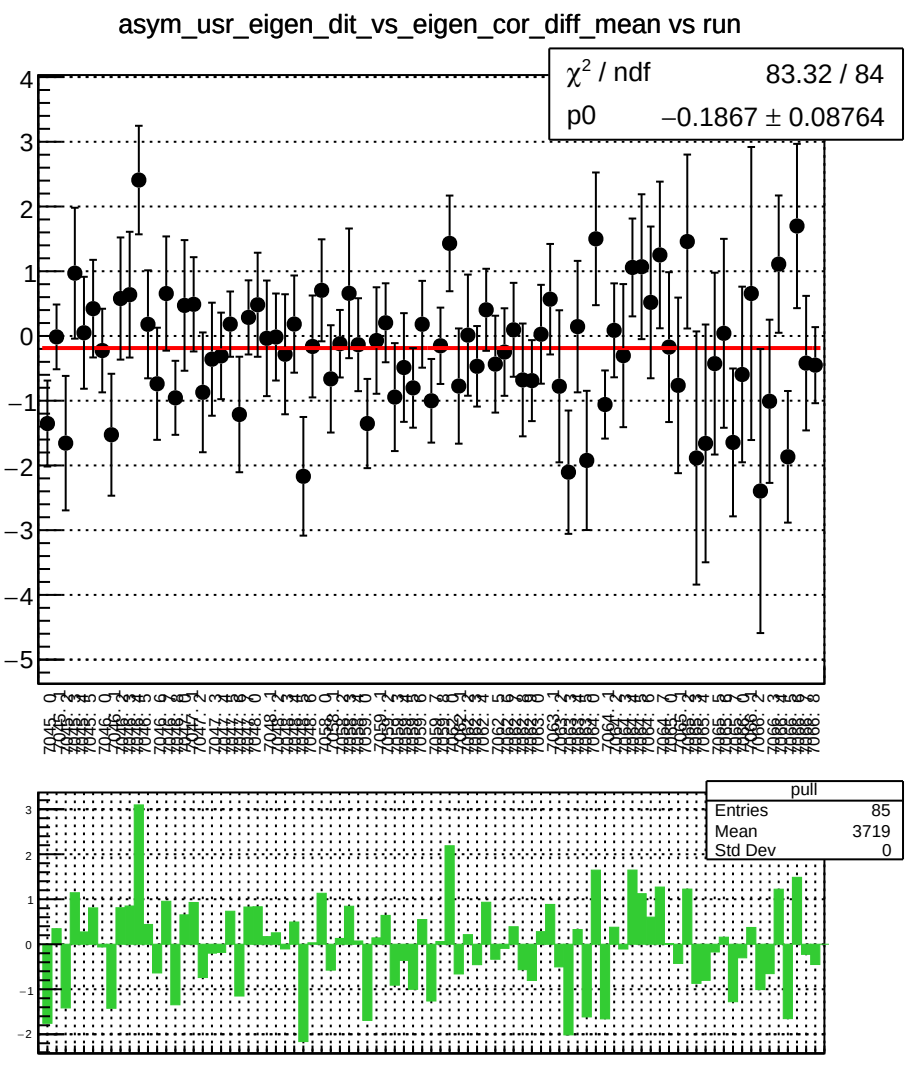

pull1D
Entries 85
Mean −0.08966
Std Dev 1.021

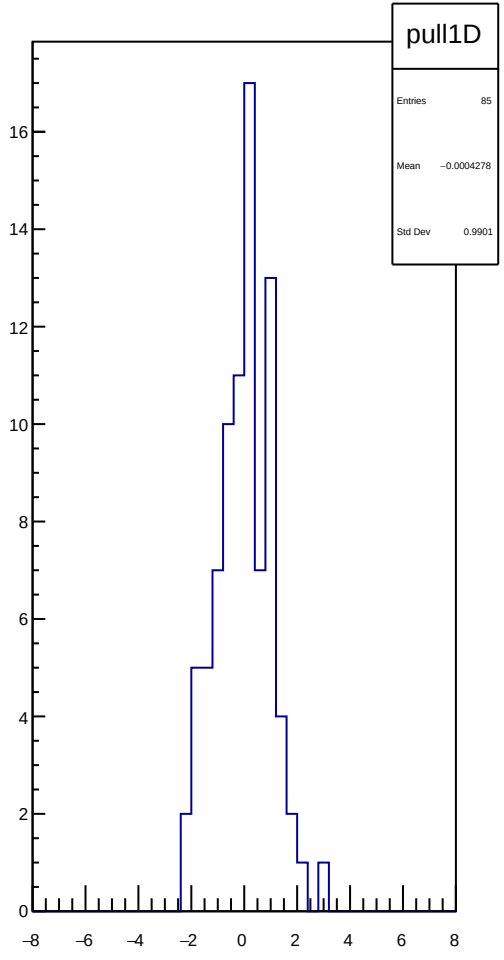

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.014e+05 / 84
p0 0.004823 ± 4.011e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

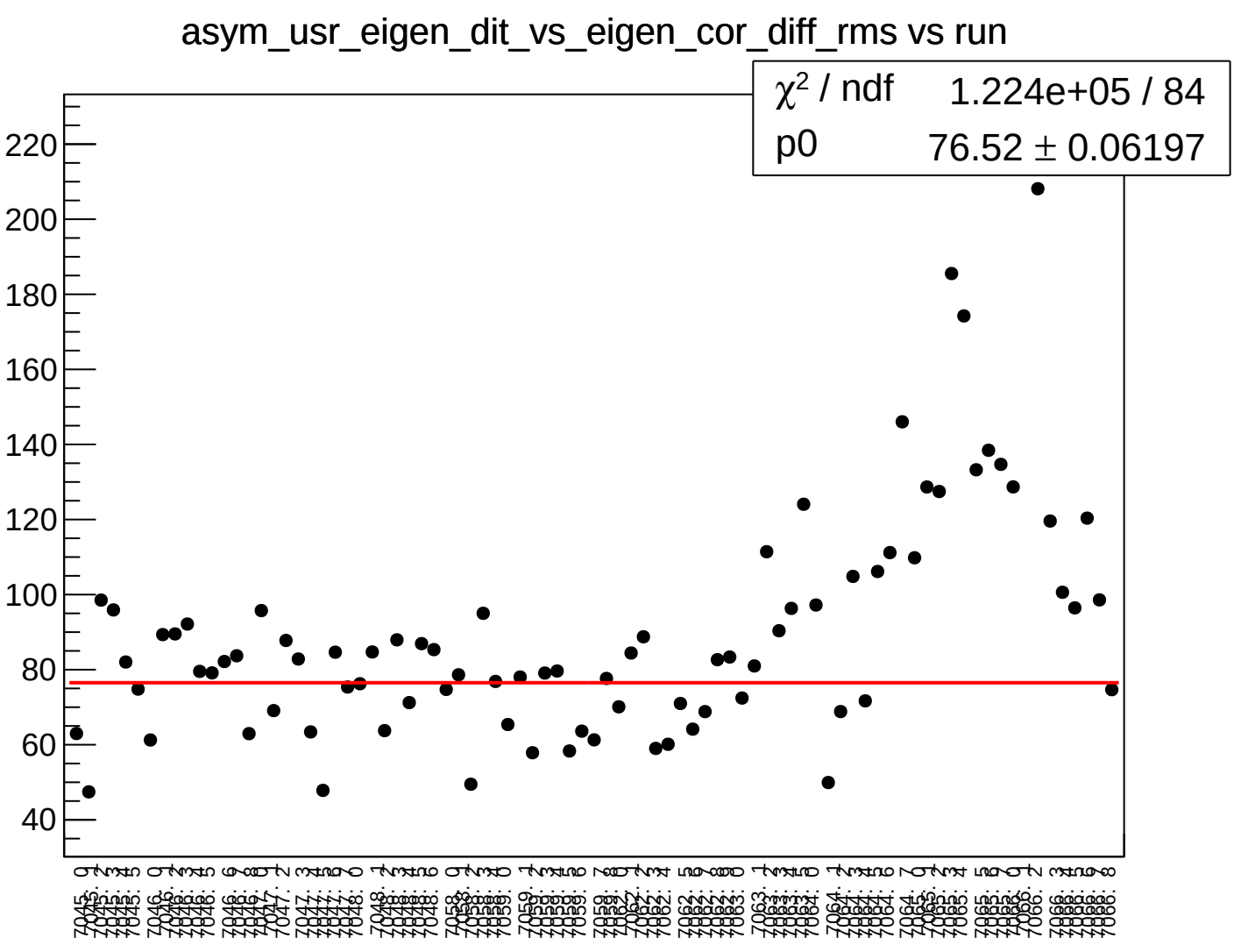

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.32 / 84
p0 −0.1867 ± 0.08764
pull
Entries 85
Mean 3719
Std Dev 0

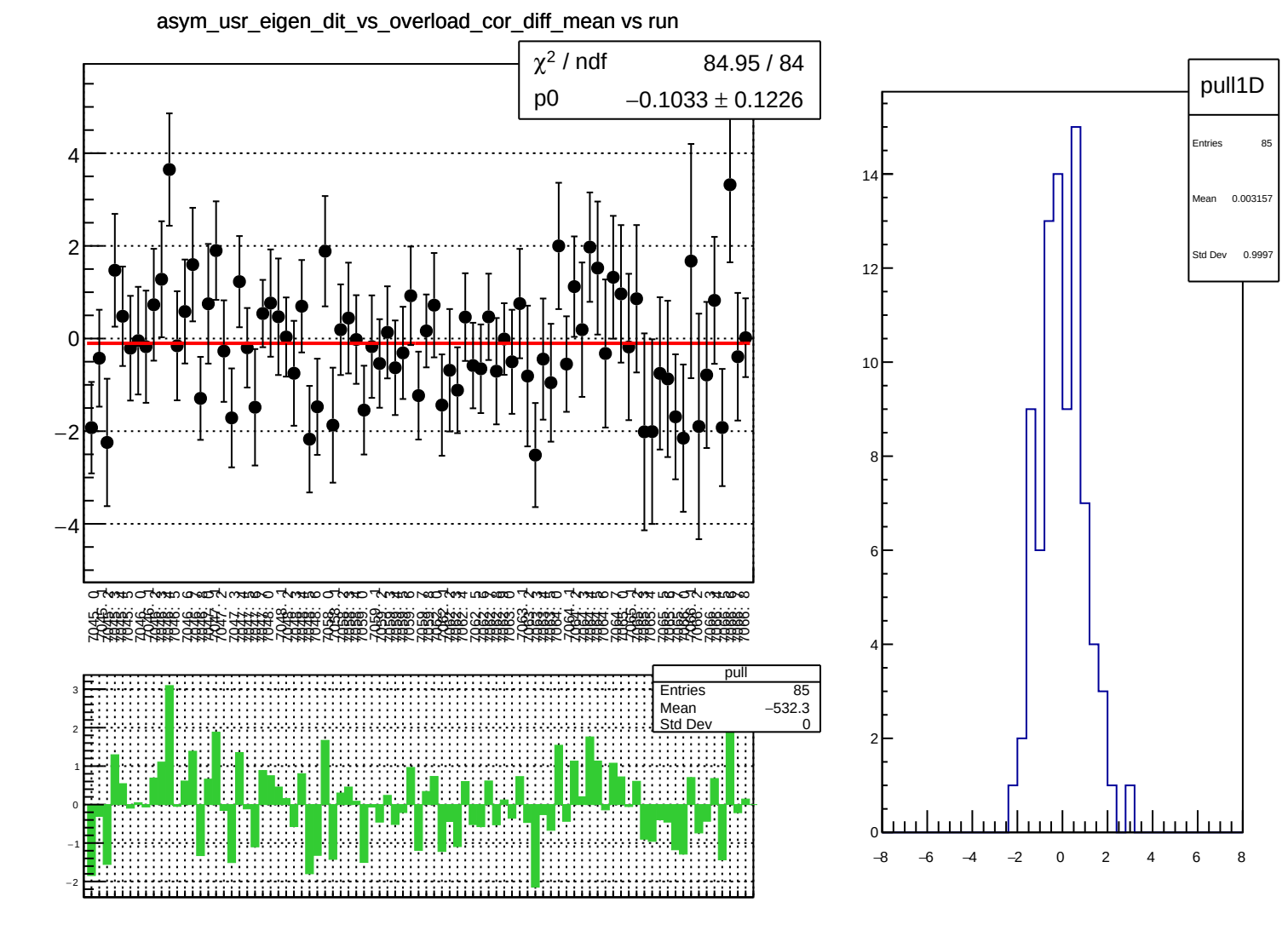

pull1D
Entries 85
Mean −0.0004278
Std Dev 0.9901

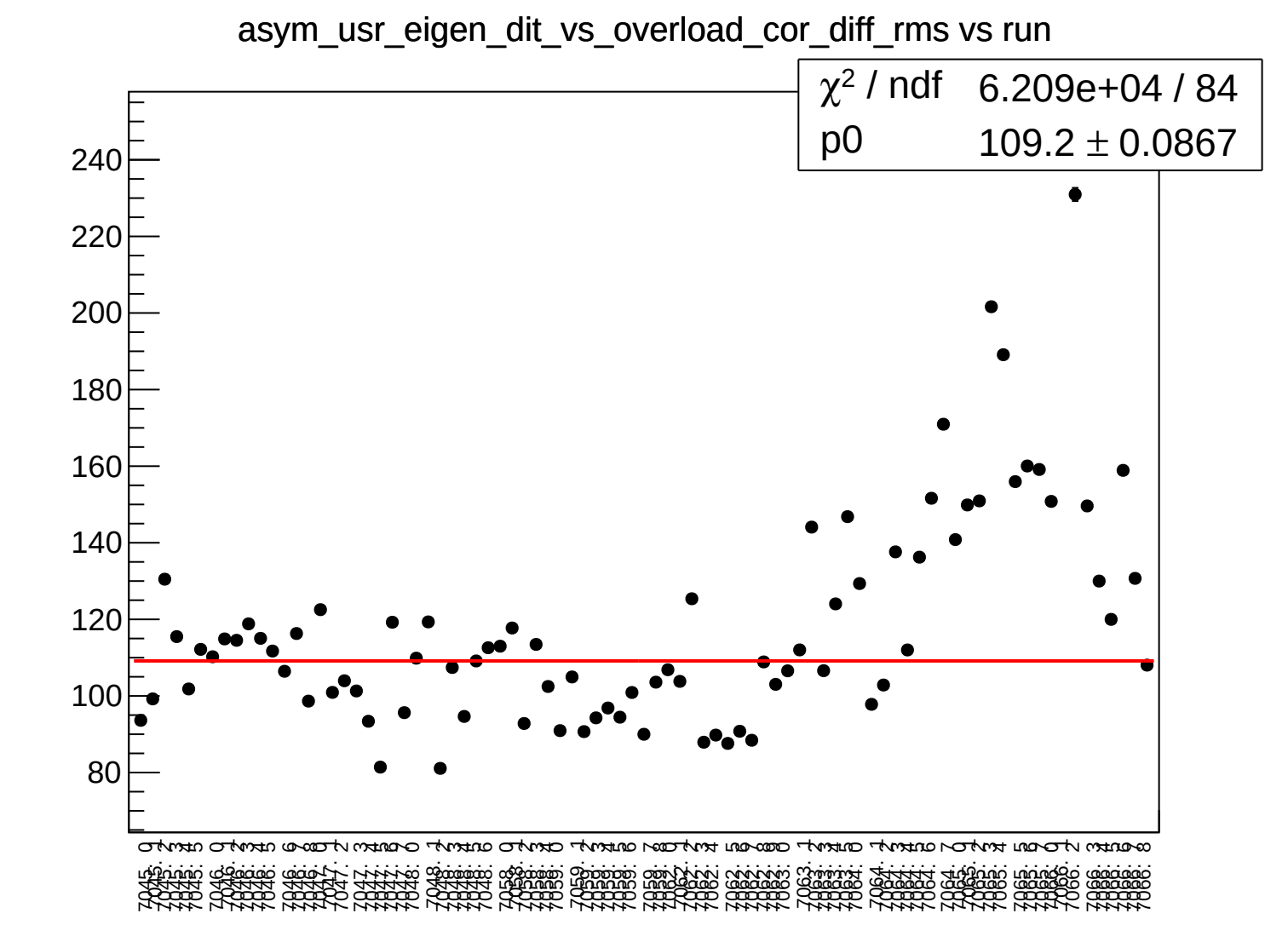

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.224e+05 / 84
p0 76.52 ± 0.06197
220
200
180
160
140
120
100
80
60
40

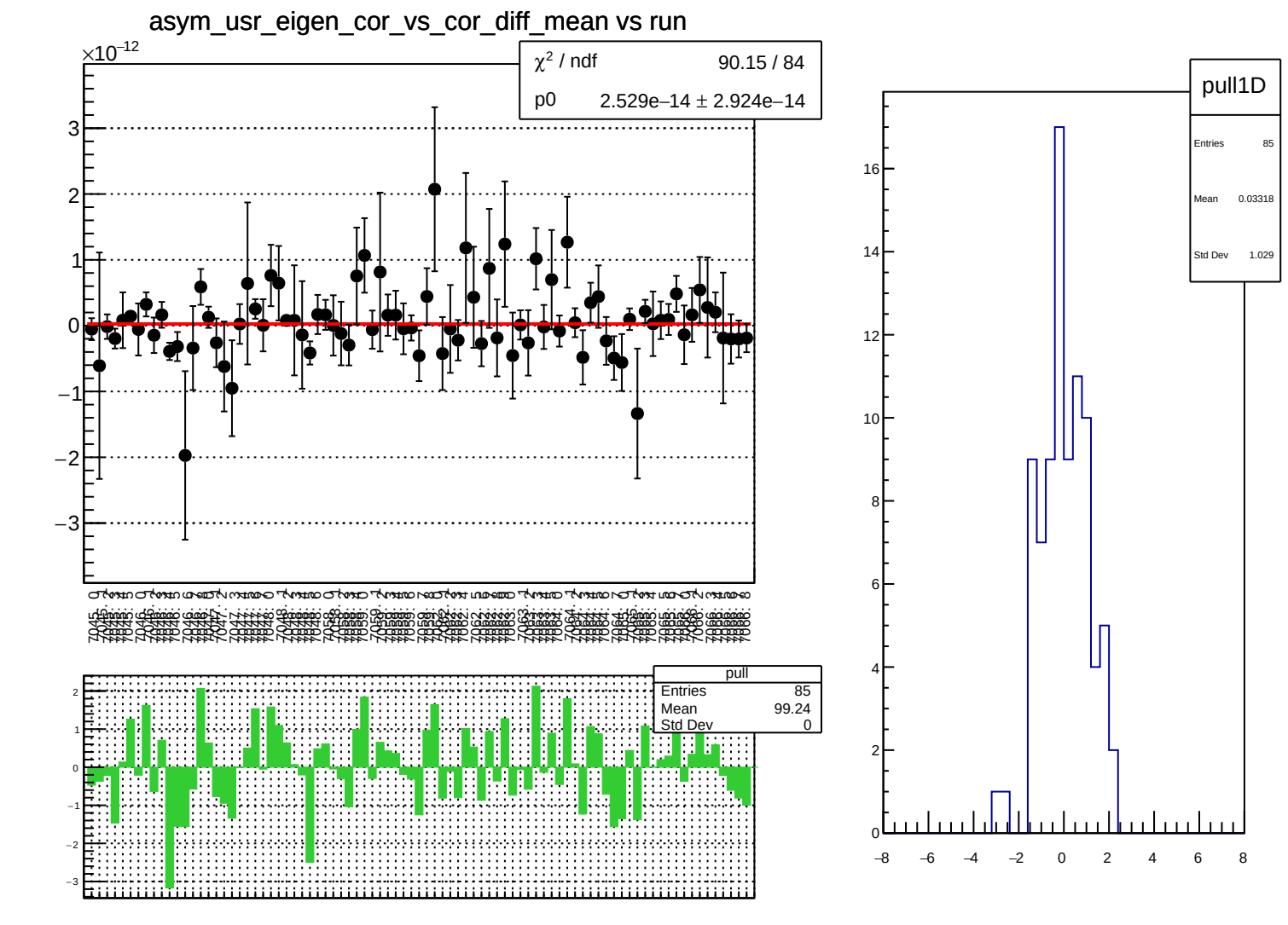

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.32 / 84
p0 −0.1867 ± 0.08764
pull
Entries 85
Mean 3719
Std Dev 0


pull1D
Entries 85
Mean −0.0004278
Std Dev 0.9901

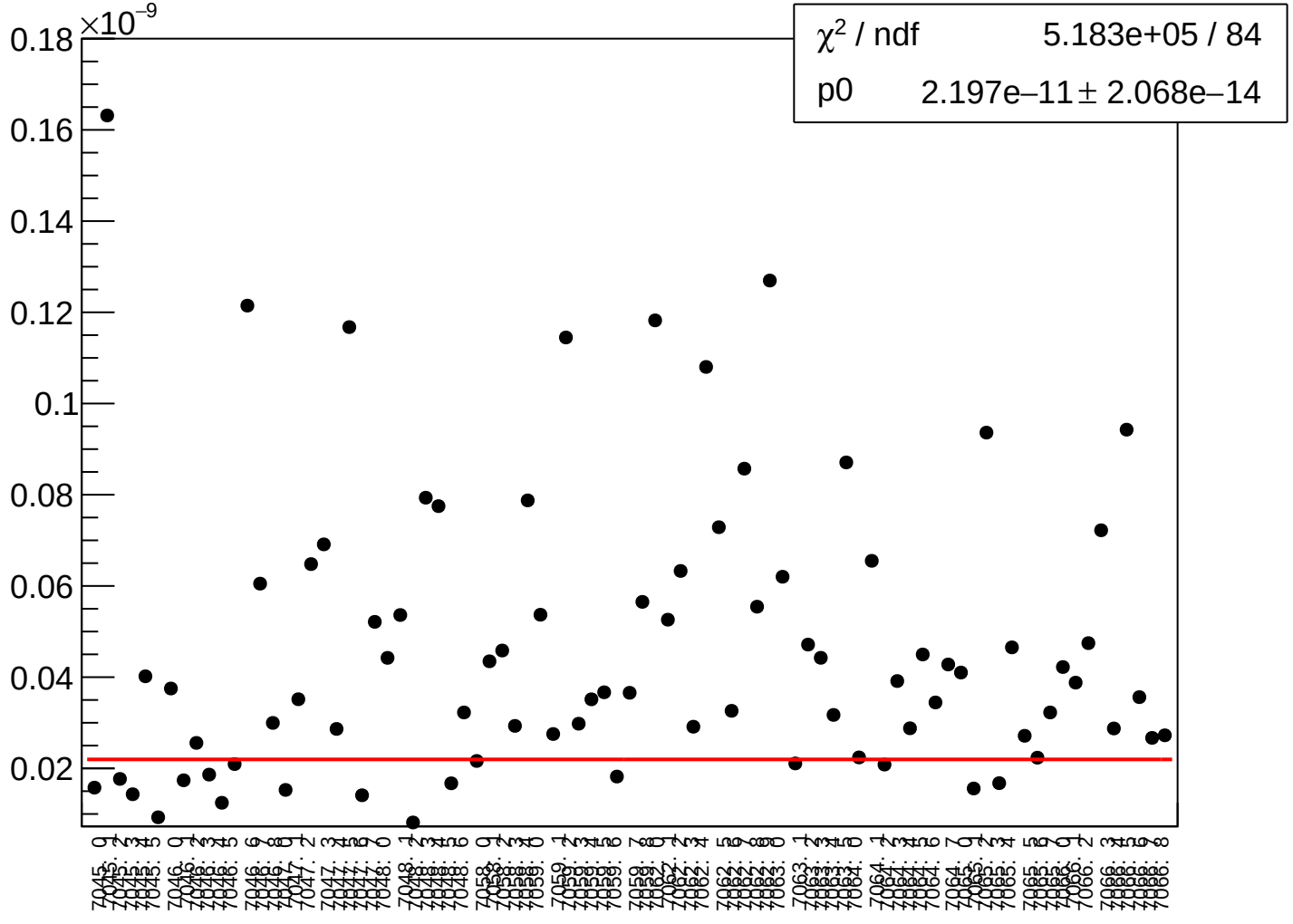

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.224e+05 / 84
p0 76.52 ± 0.06197
220
200
180
160
140
120
100
80
60
40

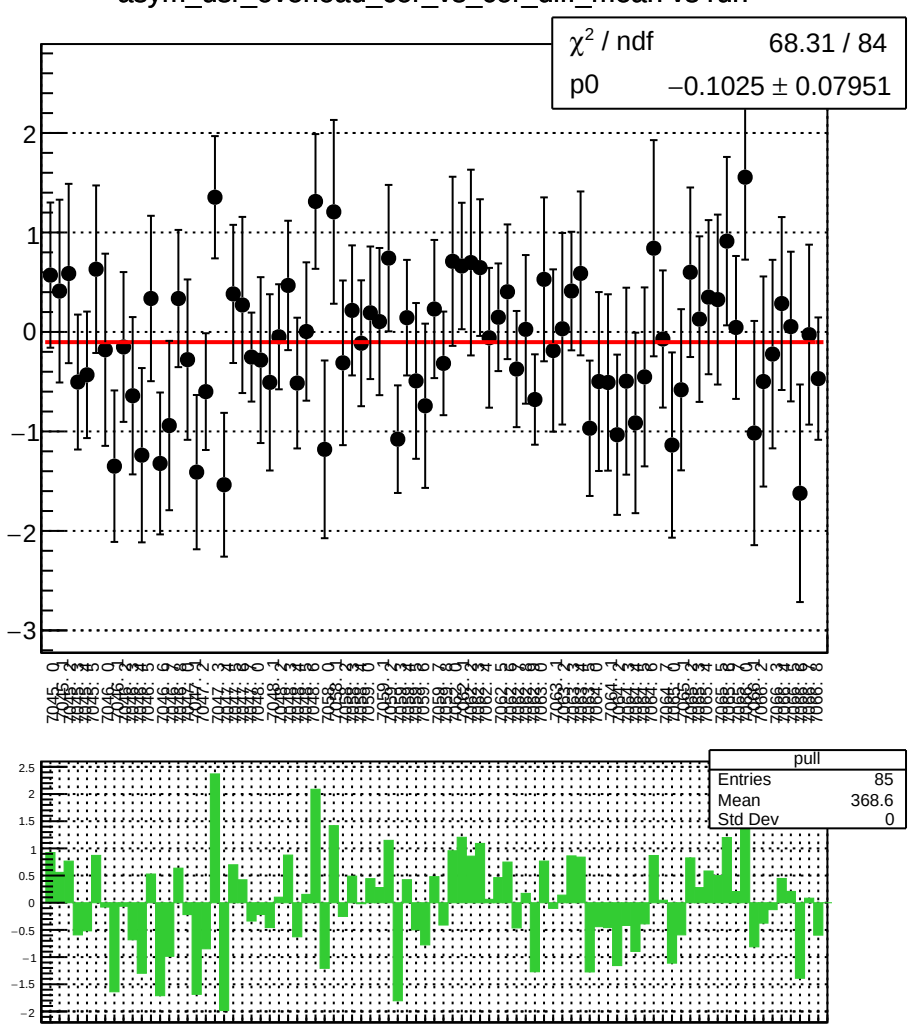

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.95 / 84
p0 −0.1033 ± 0.1226
pull
Entries 85
Mean −532.3
Std Dev 0
pull1D
Entries 85
Mean 0.003157
Std Dev 0.9997

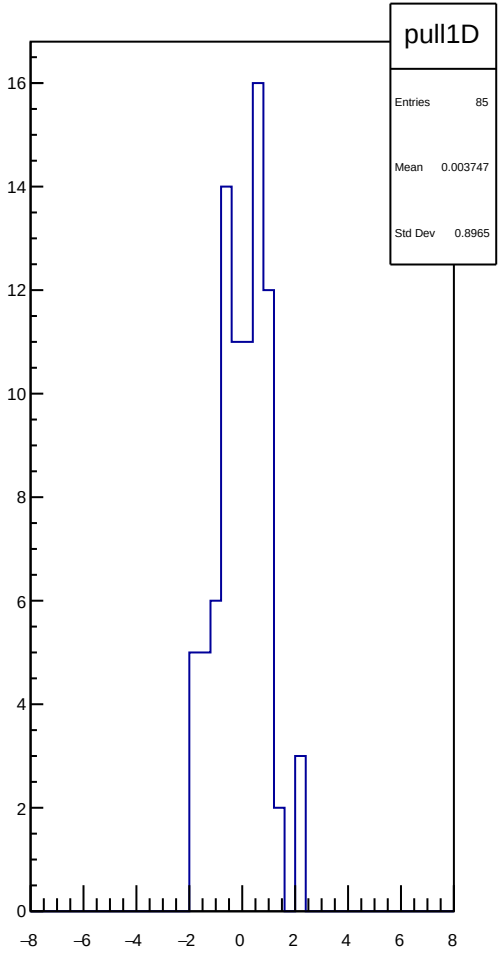

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.209e+04 / 84
p0 109.2 ± 0.0867
240
220
200
180
160
140
120
100
80

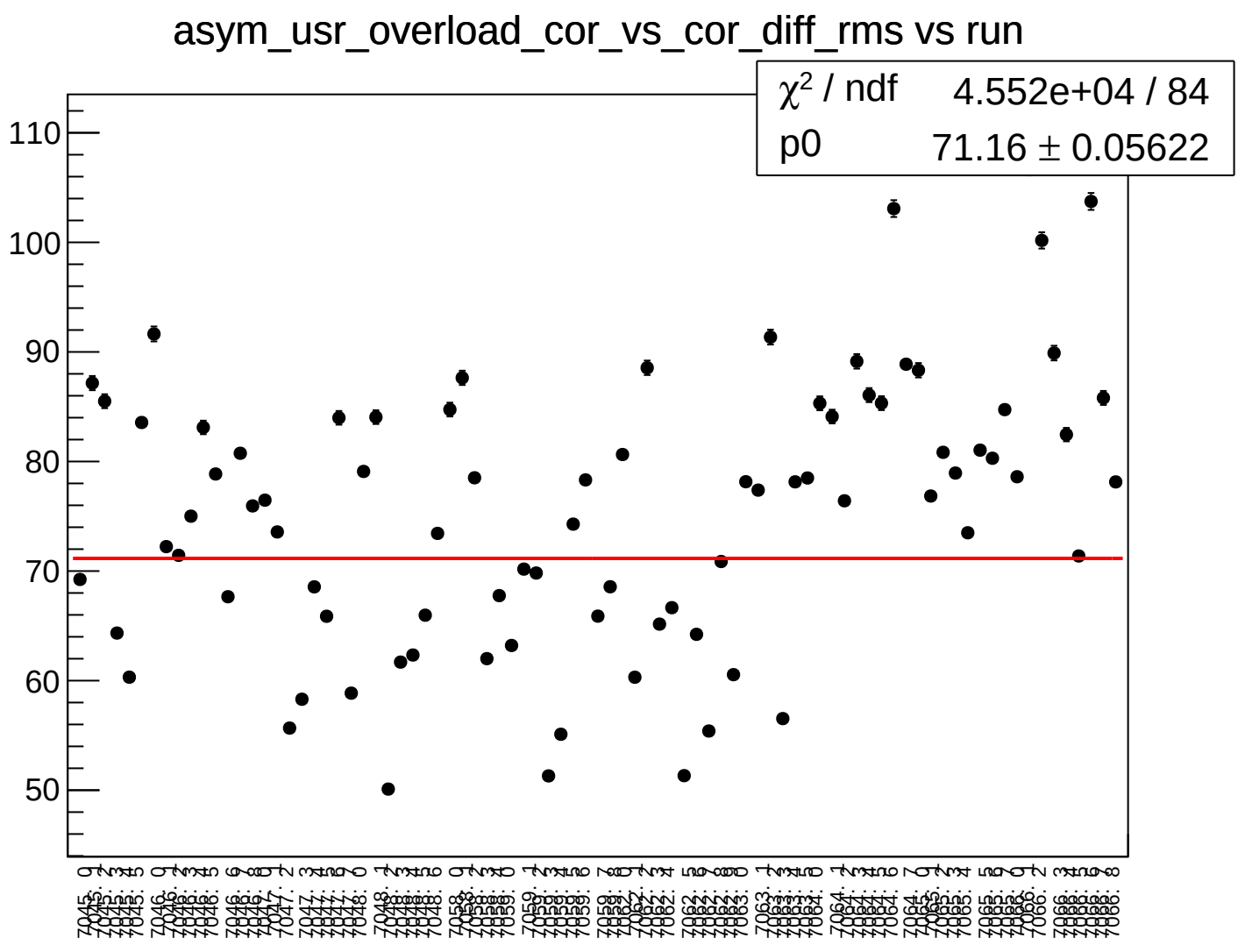

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.15 / 84
p0 2.529e−14 ± 2.924e−14
pull
Entries 85
Mean 99.24
Std Dev 0
pull1D
Entries 85
Mean 0.03318
Std Dev 1.029

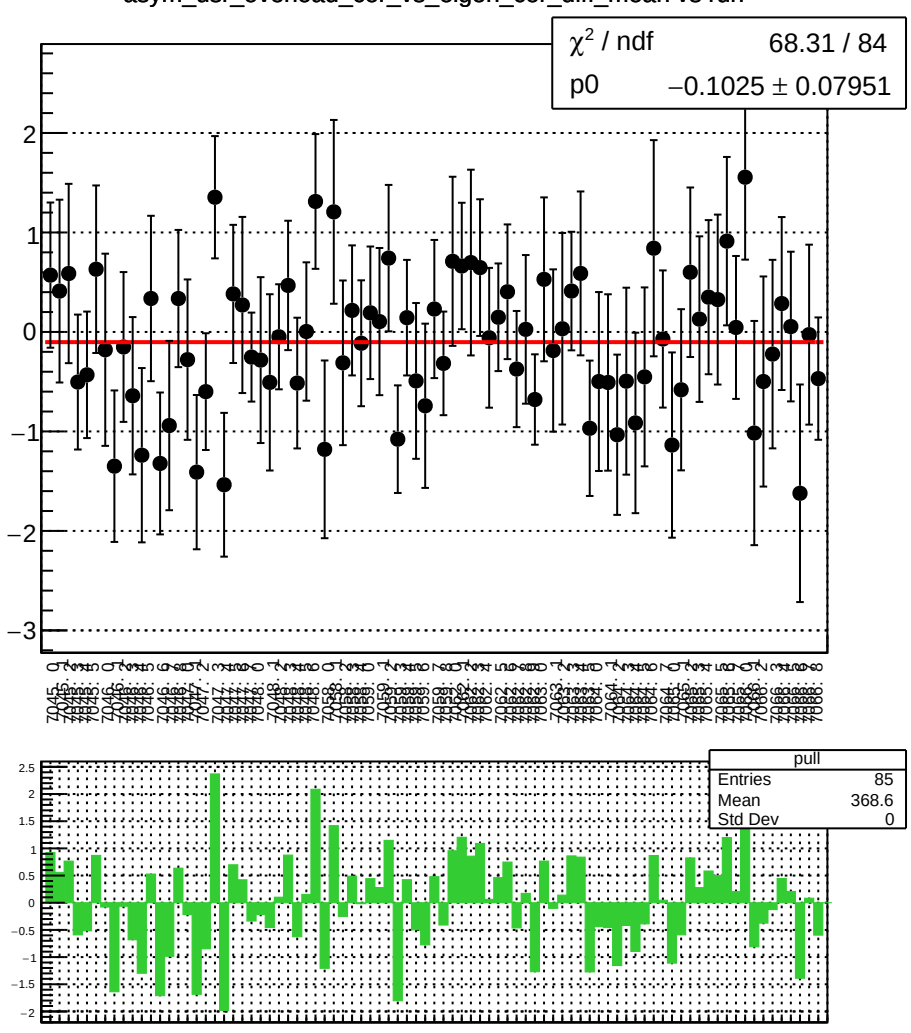
asym_usr_eigen_cor_vs_cor_diff_rms vs run

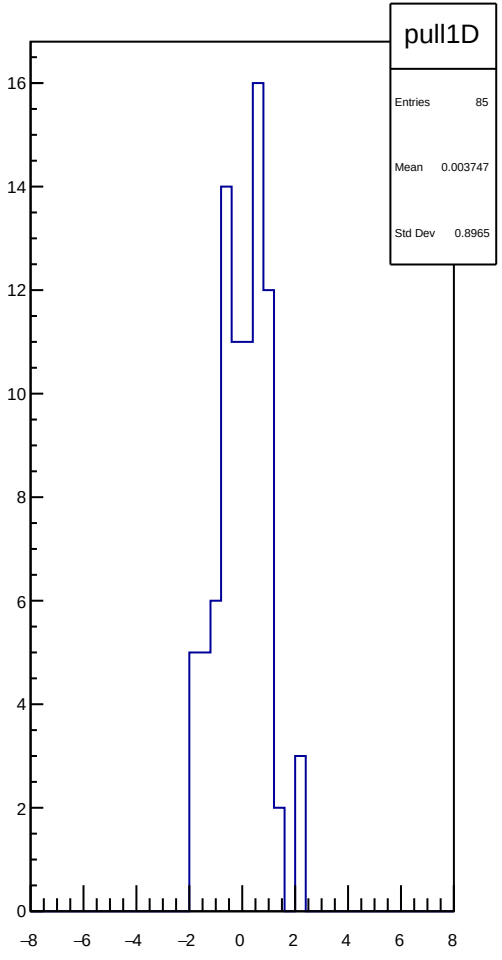


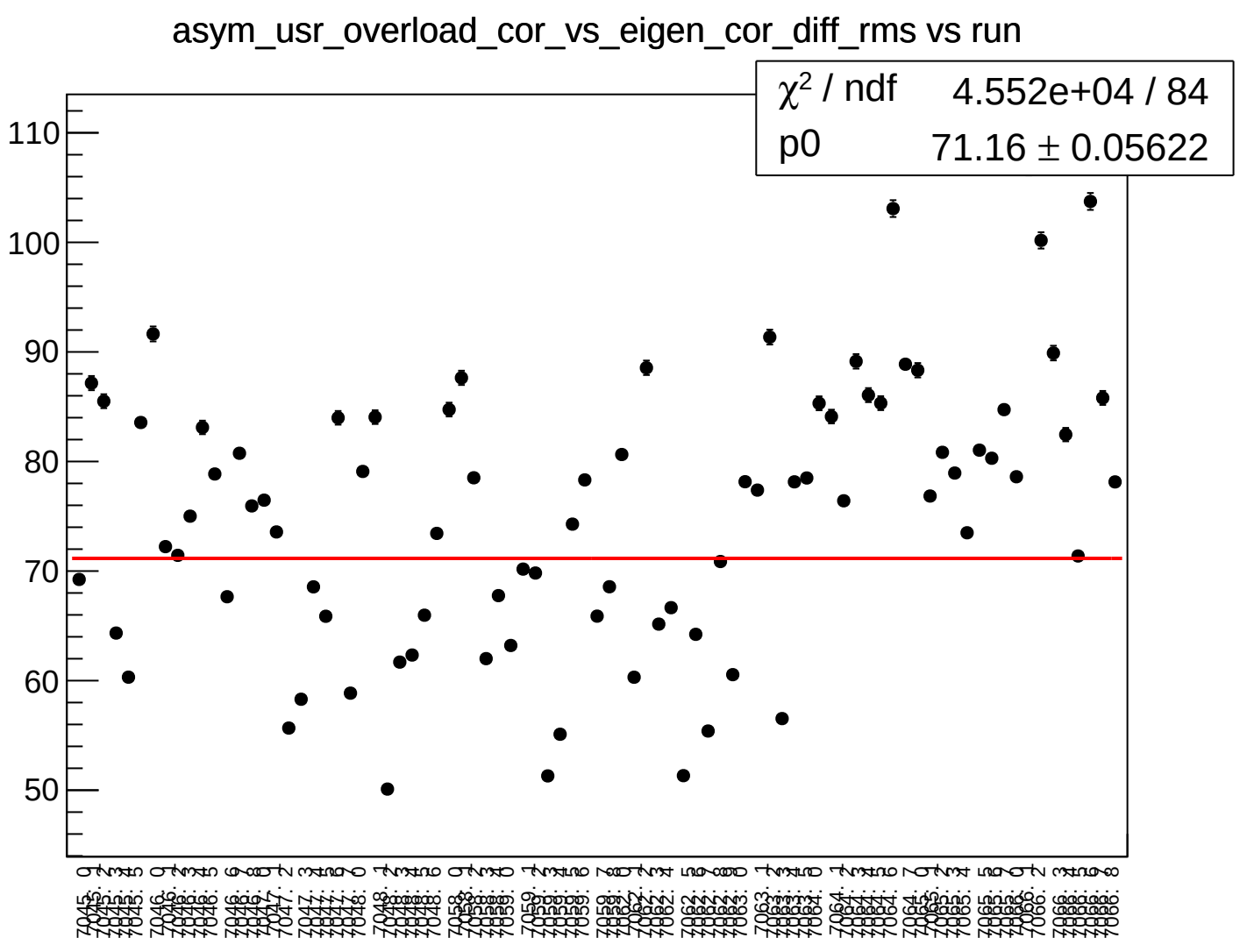

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 68.31 / 84
p0 −0.1025 ± 0.07951
pull
Entries 85
Mean 368.6
Std Dev 0

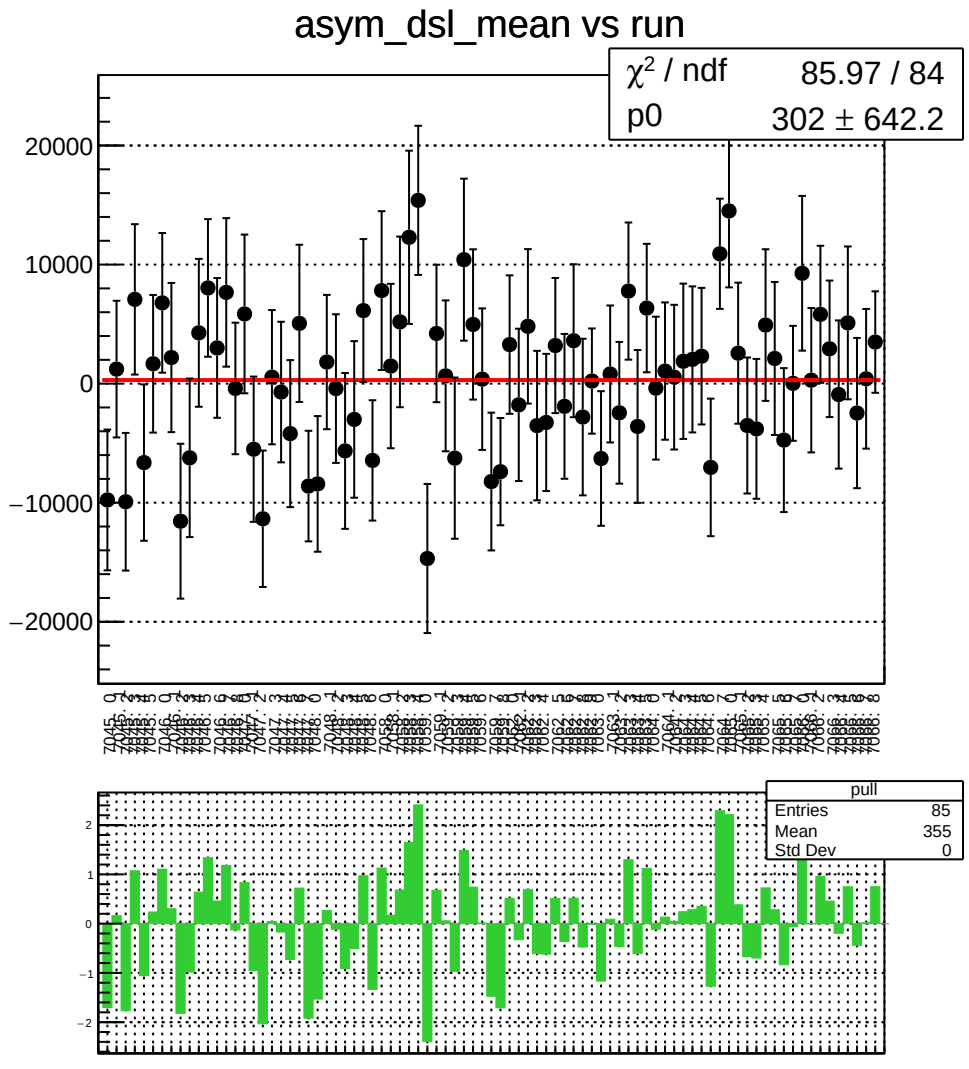

pull1D
Entries 85
Mean 0.003747
Std Dev 0.8965

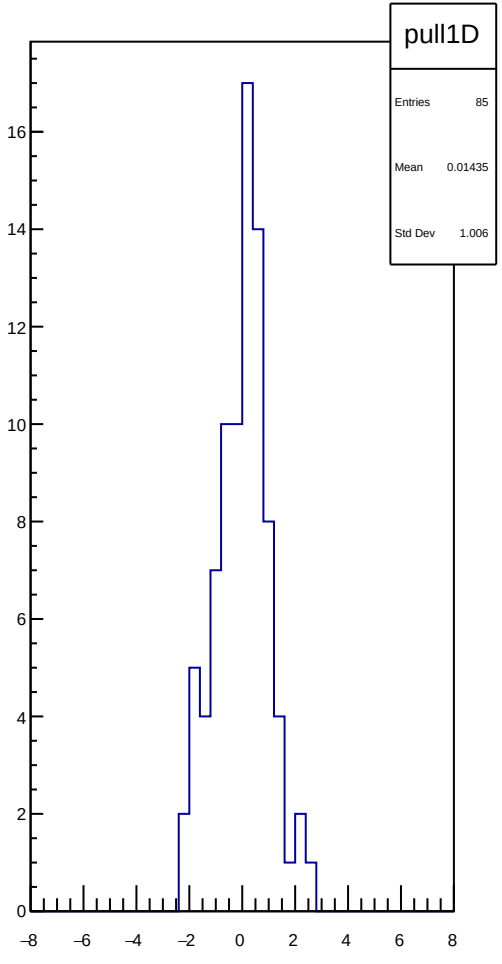

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.552e+04 / 84
p0 71.16 ± 0.05622
110
100
90
80
70
60
50

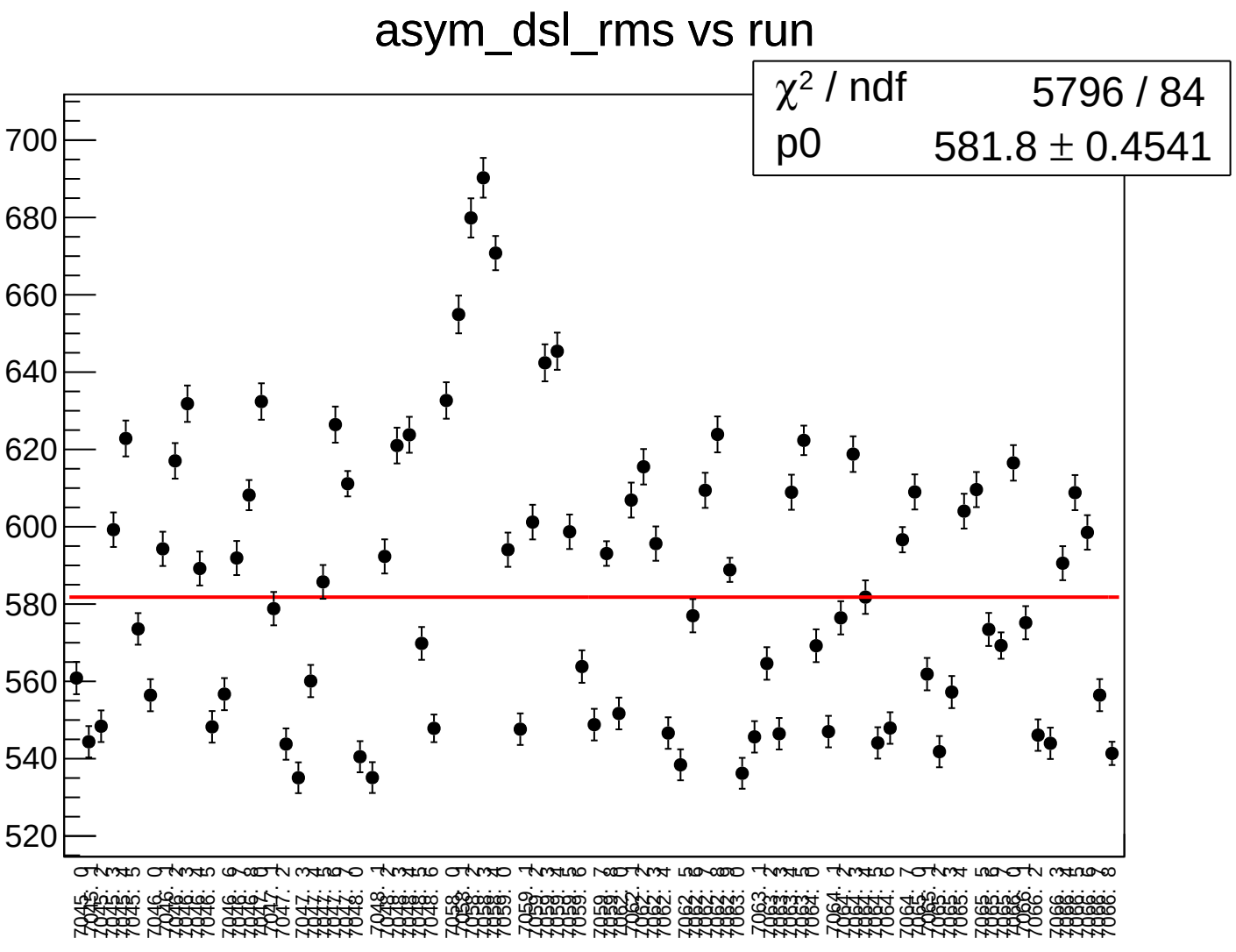

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.31 / 84
p0 −0.1025 ± 0.07951
pull
Entries 85
Mean 368.6
Std Dev 0

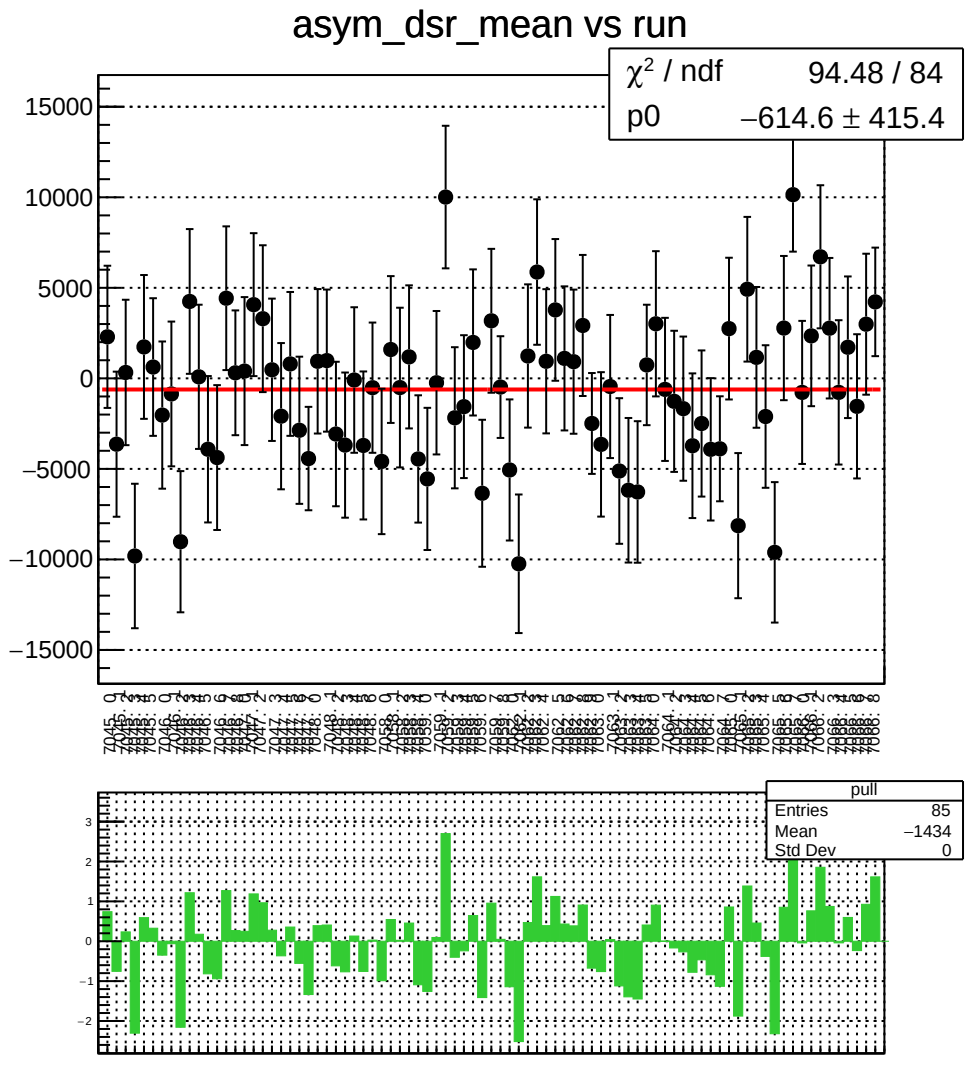

pull1D
Entries 85
Mean 0.003747
Std Dev 0.8965

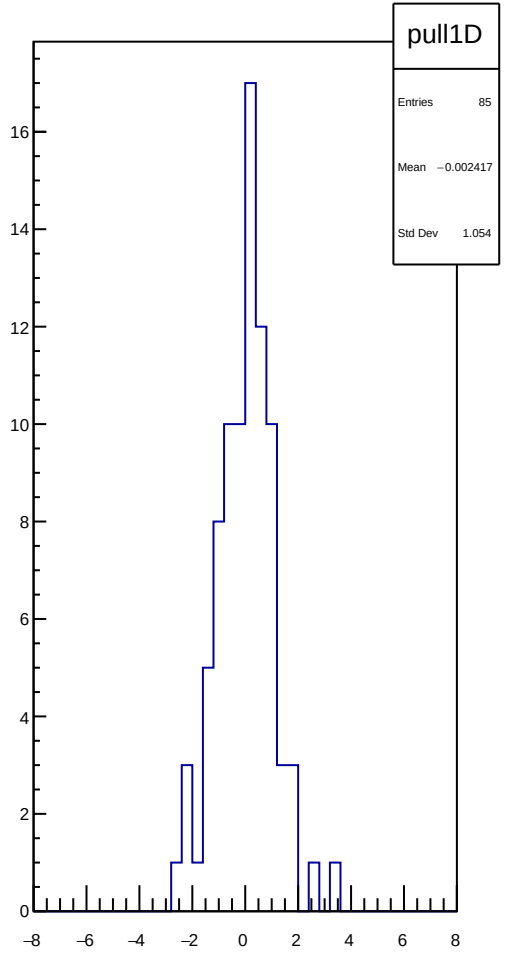

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.552e+04 / 84
p0 71.16 ± 0.05622
110
100
90
80
70
60
50

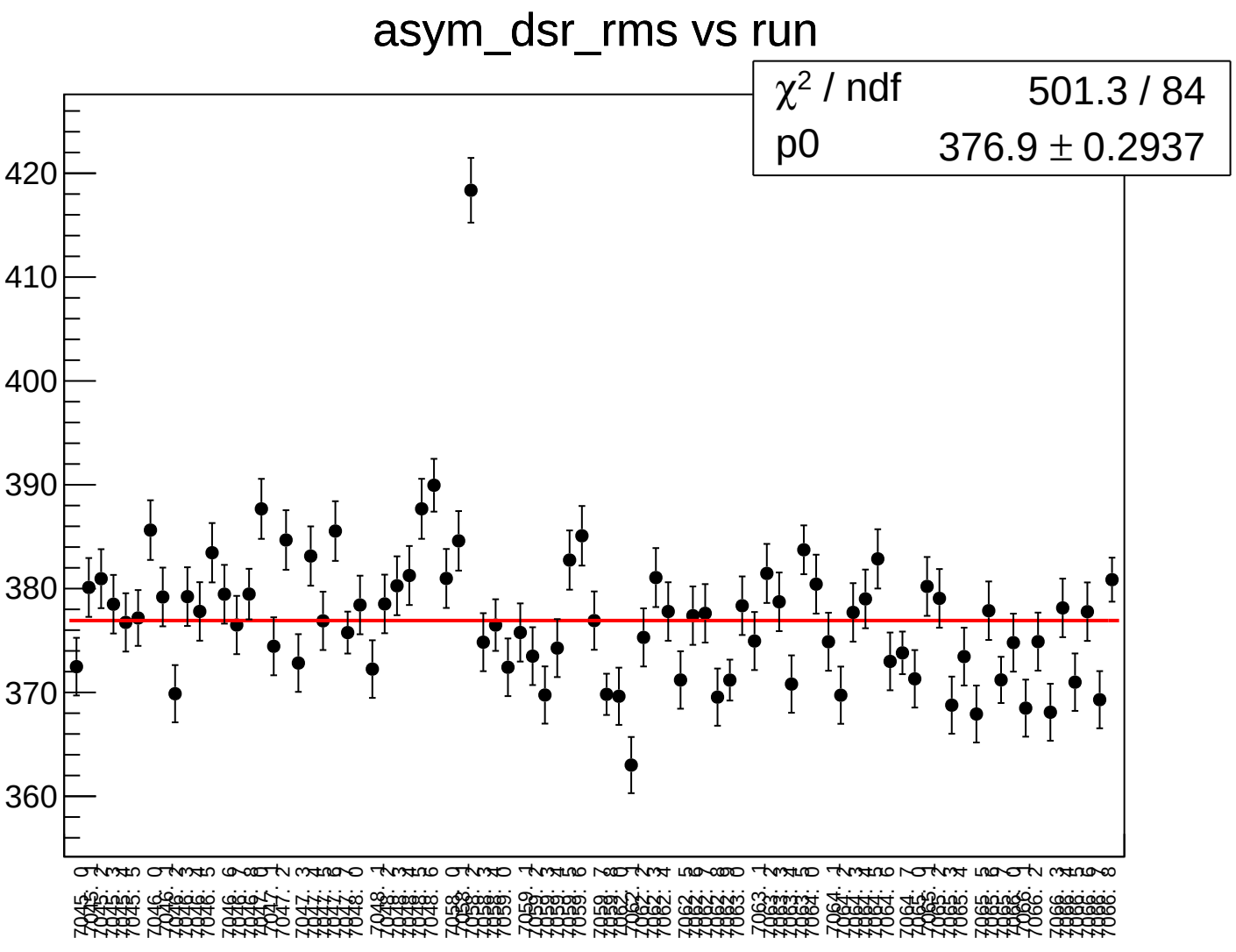

asym_dsl_mean vs run
χ² / ndf 85.97 / 84
p0 302 ± 642.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 355
Std Dev 0
2
1
0
−1
−2

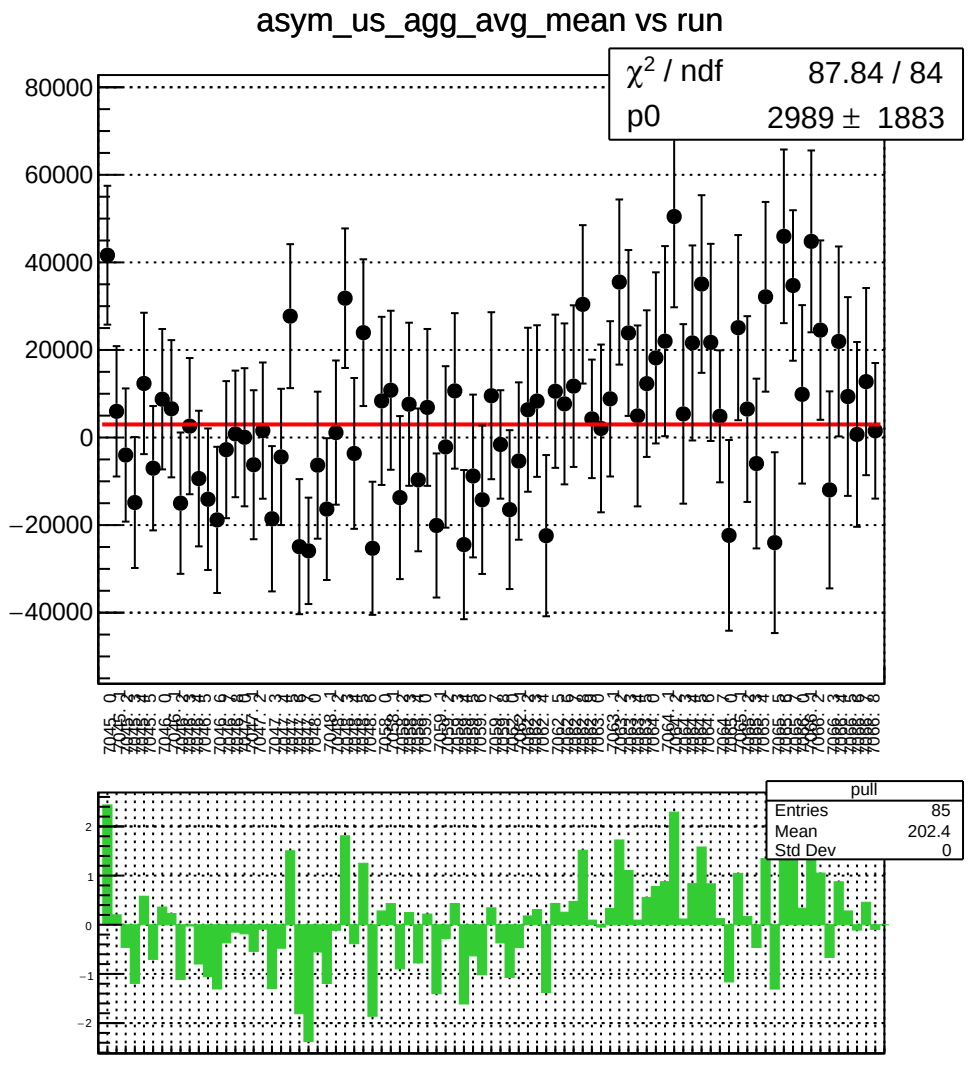

pull1D
Entries 85
Mean 0.01435
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

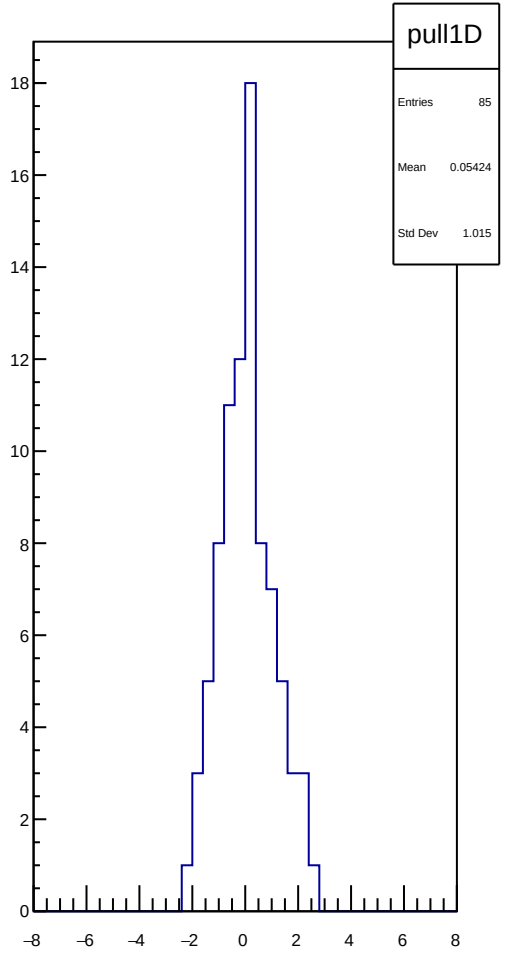

asym_dsl_rms vs run
χ² / ndf 5796 / 84
p0 581.8 ± 0.4541
700
680
660
640
620
600
580
560
540
520

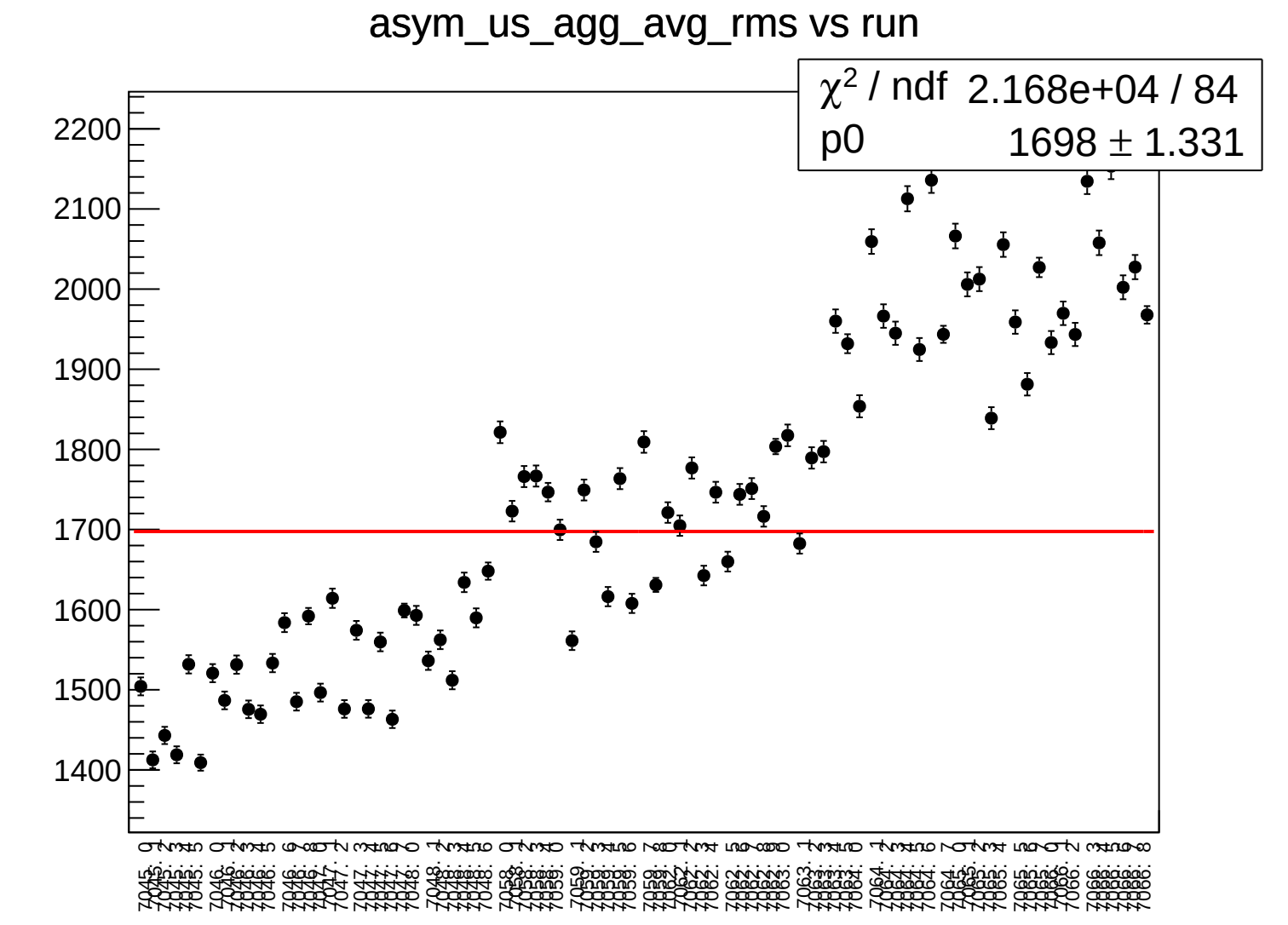

asym_dsr_mean vs run
χ² / ndf 94.48 / 84
p0 −614.6 ± 415.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −1434
Std Dev 0
3
2
1
0
−1
−2

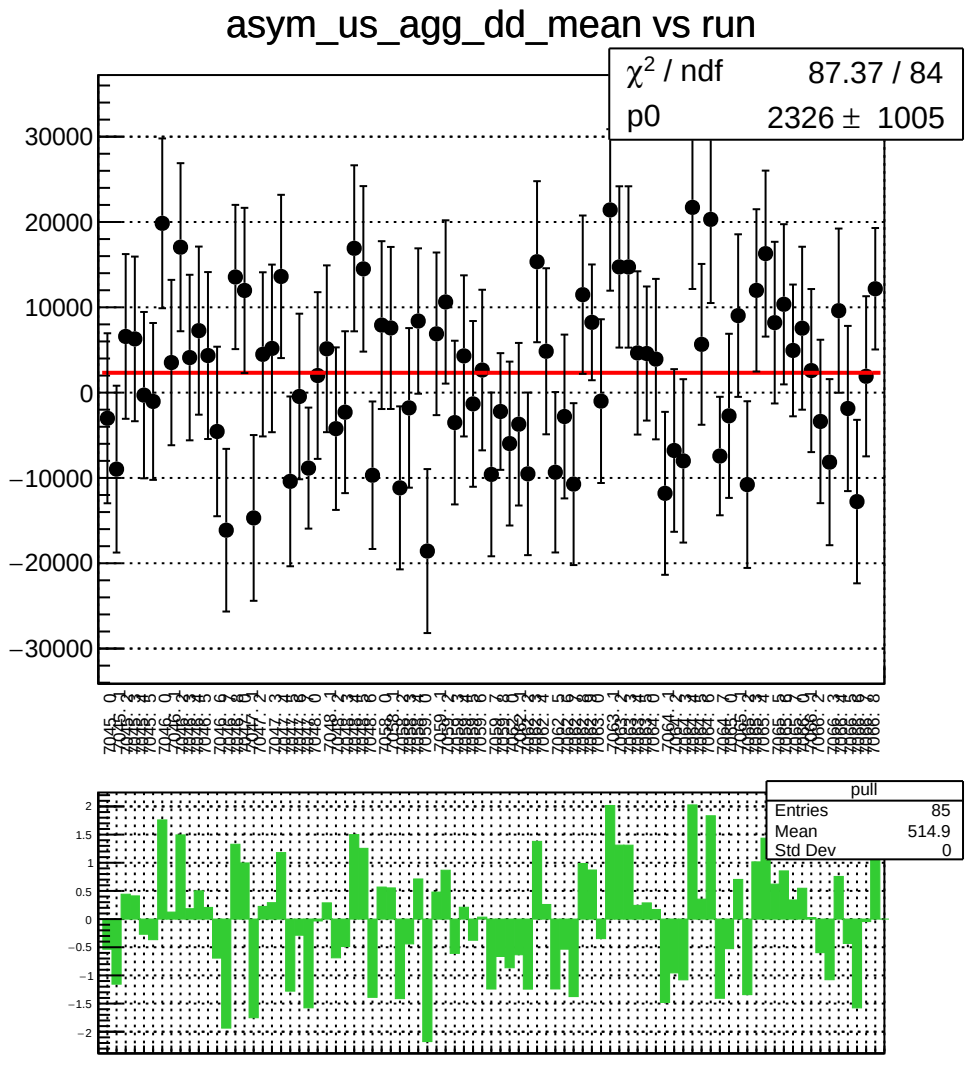

pull1D
Entries 85
Mean −0.002417
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

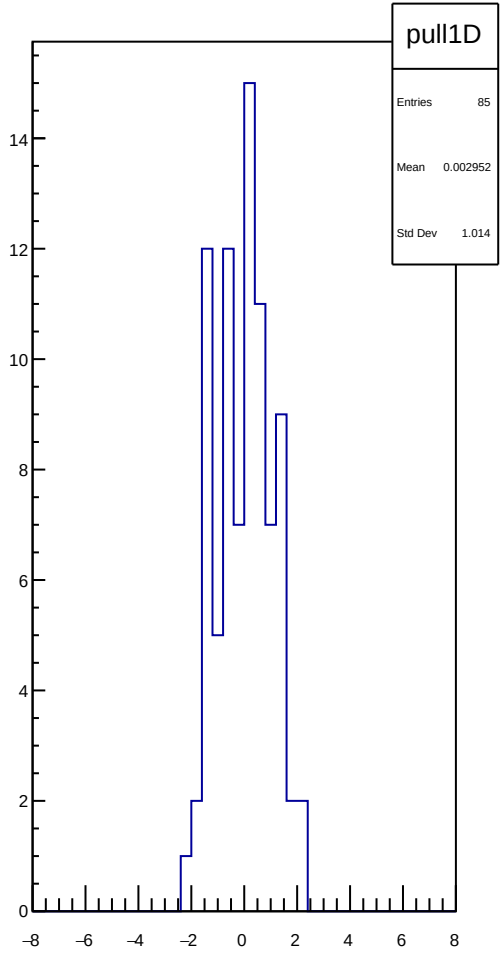

asym_dsr_rms vs run
χ² / ndf 501.3 / 84
p0 376.9 ± 0.2937
420
410
400
390
380
370
360

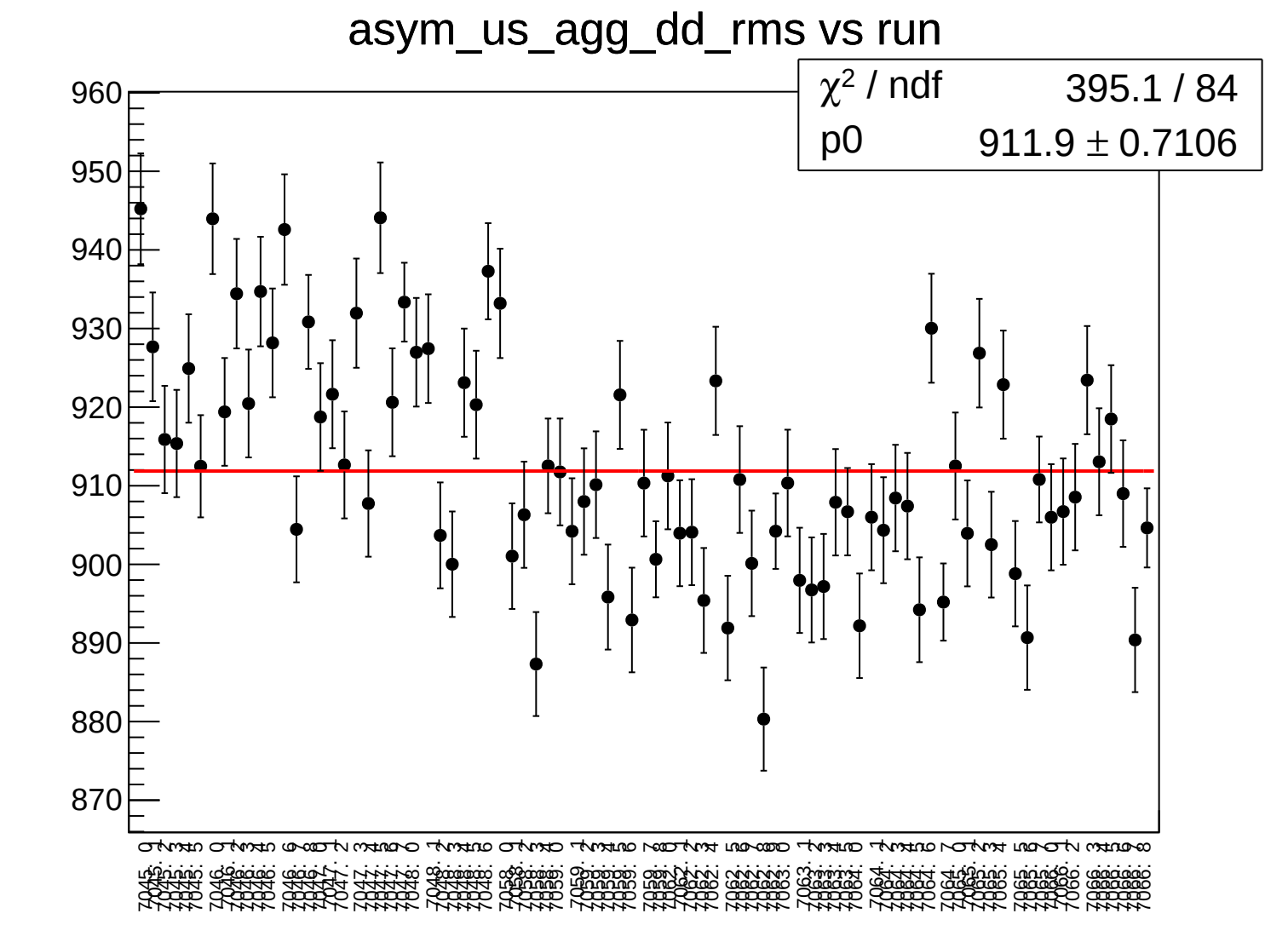

asym_us_agg_avg_mean vs run
χ² / ndf 87.84 / 84
p0 2989 ± 1883
pull
Entries 85
Mean 202.4
Std Dev 0

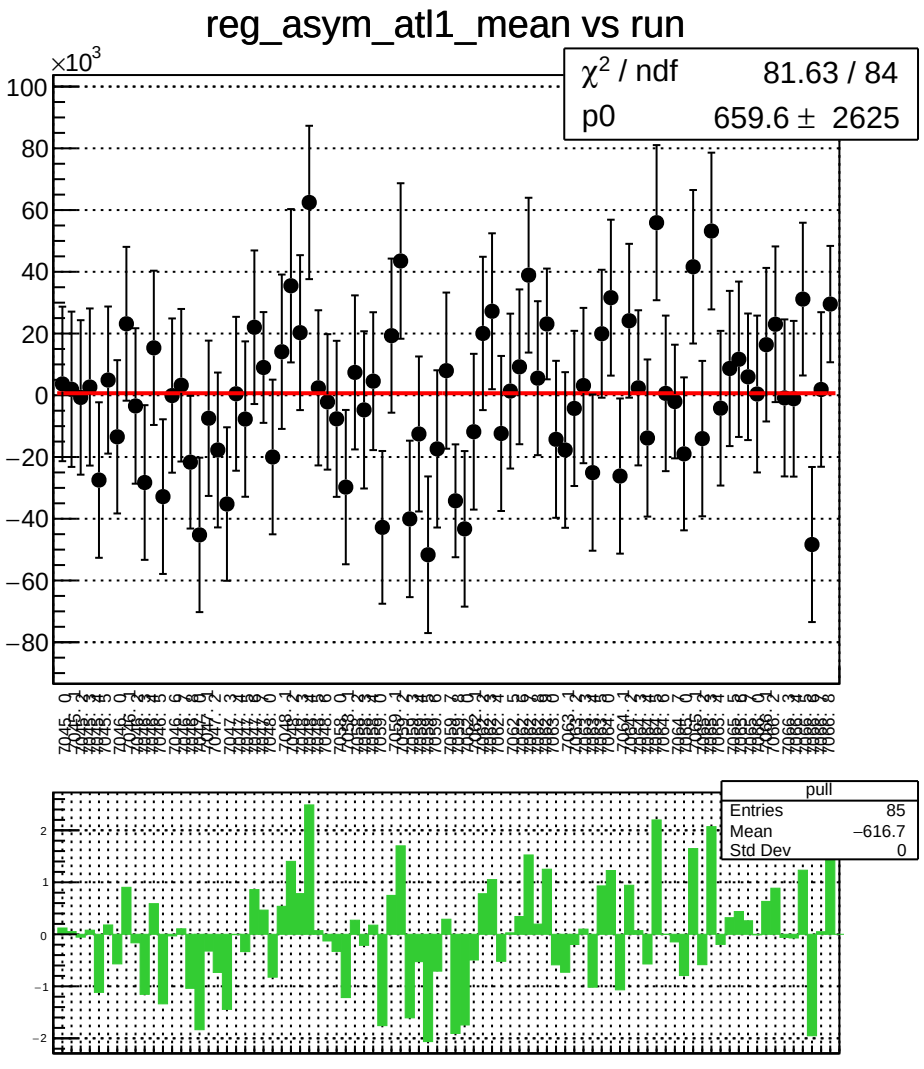

pull1D
Entries 85
Mean 0.05424
Std Dev 1.015

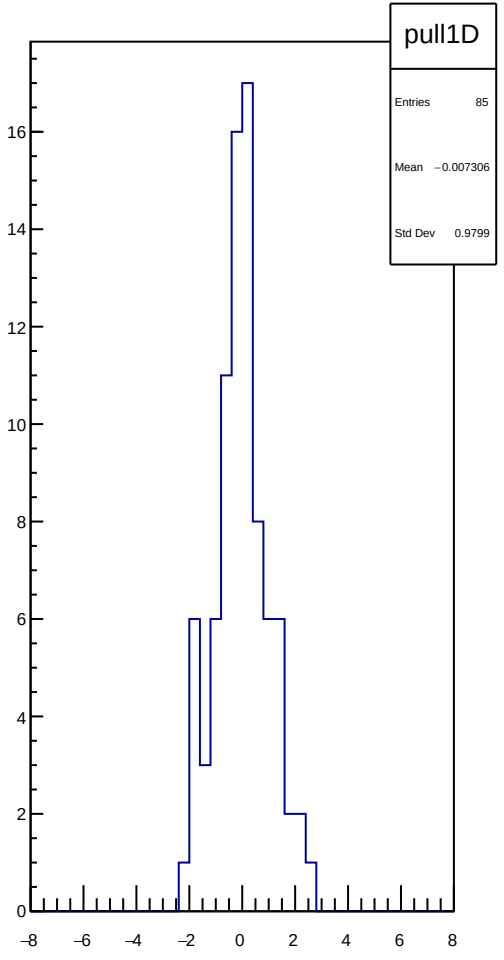

asym_us_agg_avg_rms vs run
χ^2 / ndf 2.168e+04 / 84
p0 1698 ± 1.331
2200
2100
2000
1900
1800
1700
1600
1500
1400

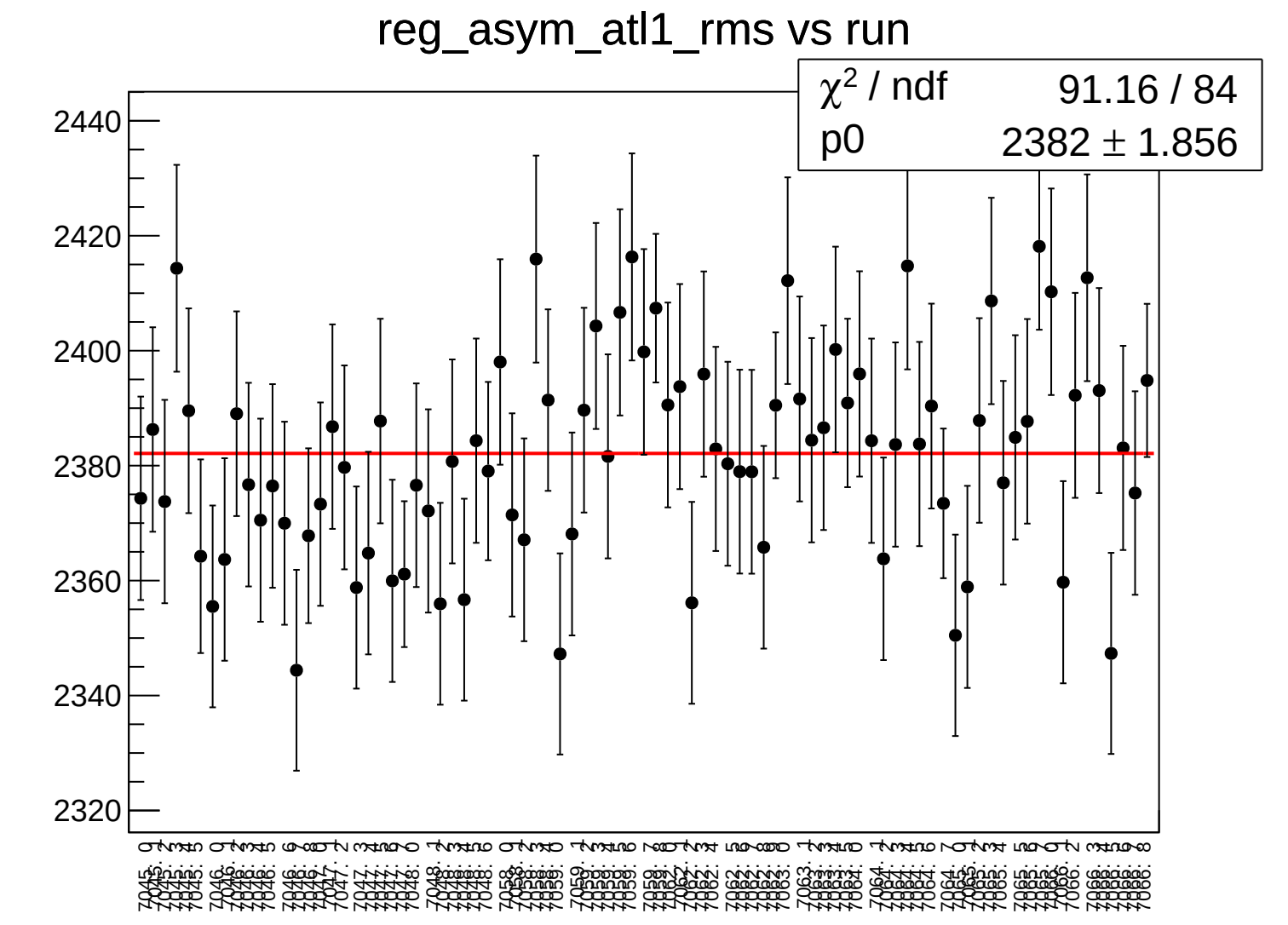

asym_us_agg_dd_mean vs run
χ^2 / ndf 87.37 / 84
p0 2326 ± 1005
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 514.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

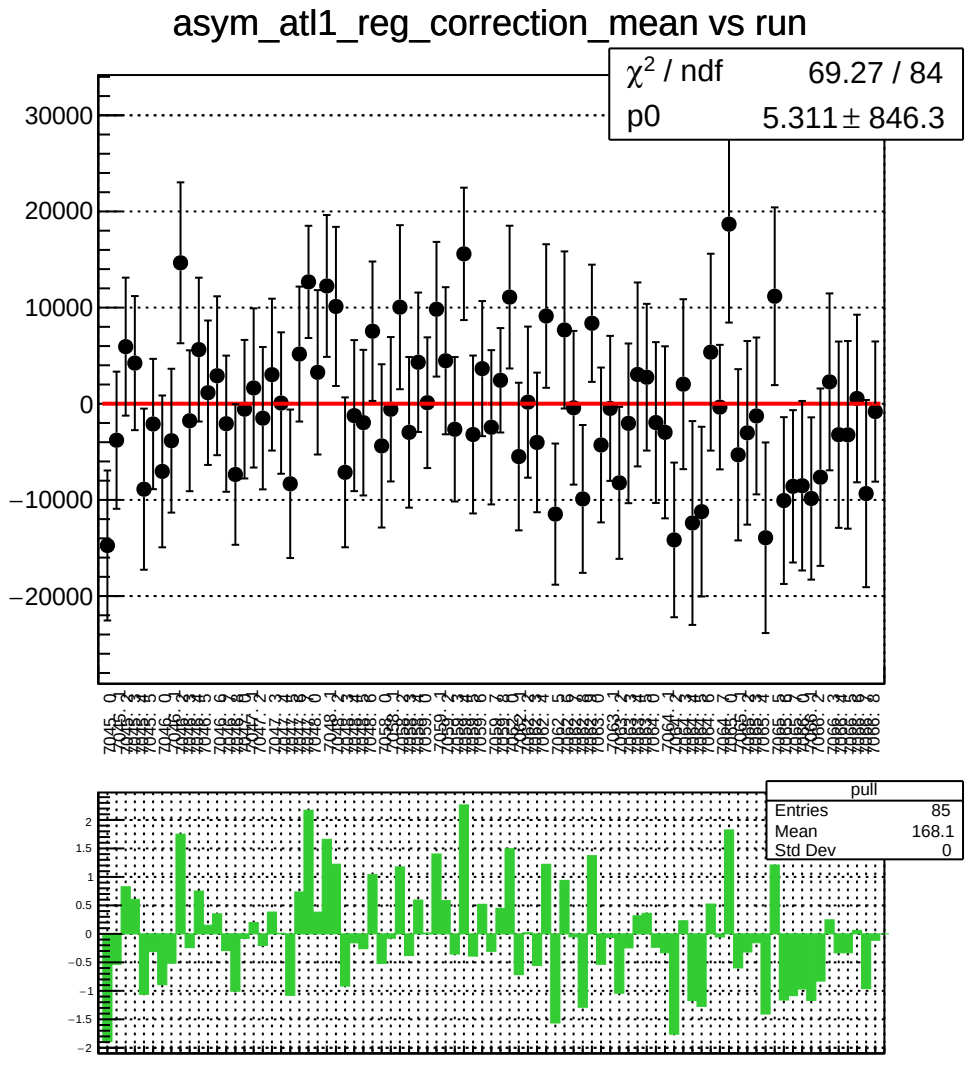

pull1D
Entries 85
Mean 0.002952
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

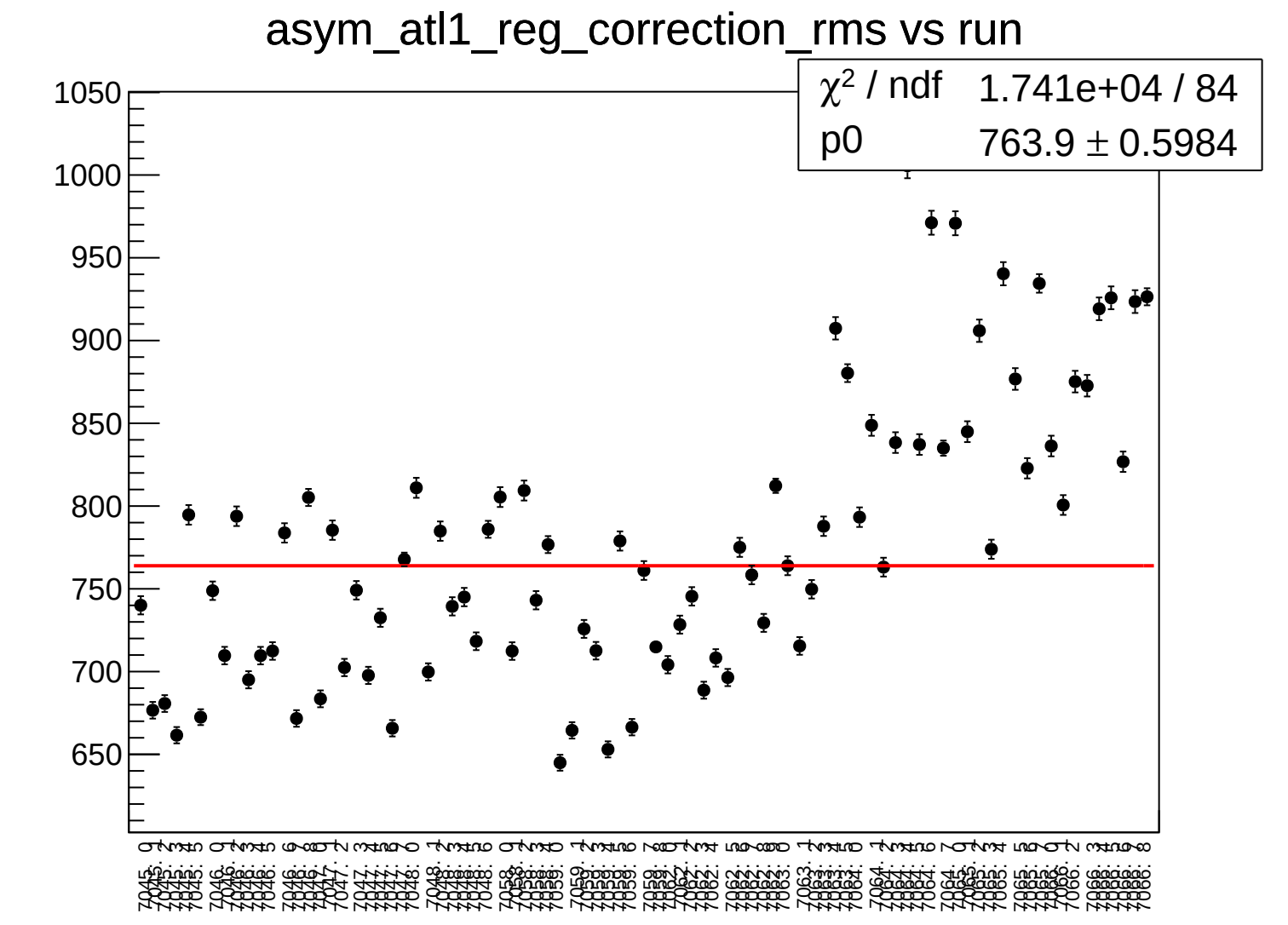

asym_us_agg_dd_rms vs run
χ² / ndf 395.1 / 84
p0 911.9 ± 0.7106
960
950
940
930
920
910
900
890
880
870

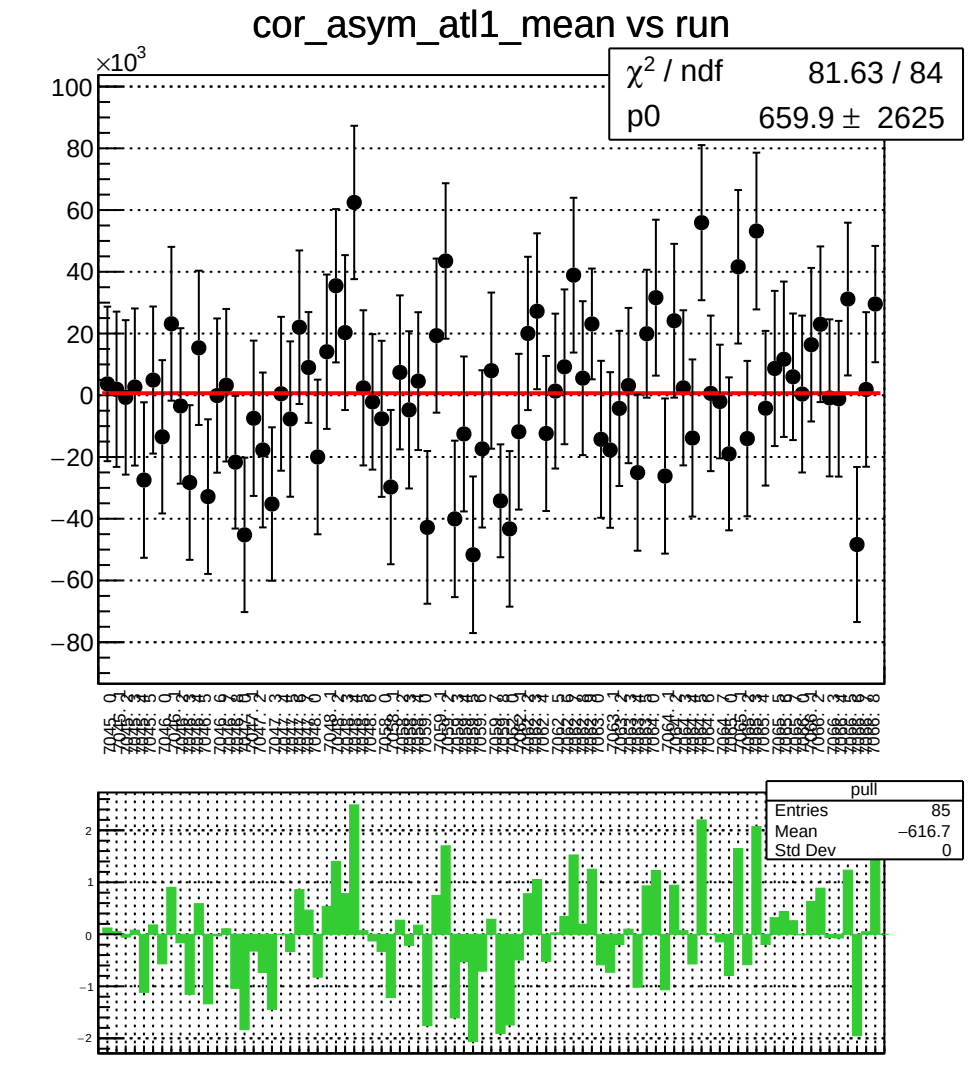

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 81.63 / 84
p0 659.6 ± 2625
pull
Entries 85
Mean −616.7
Std Dev 0

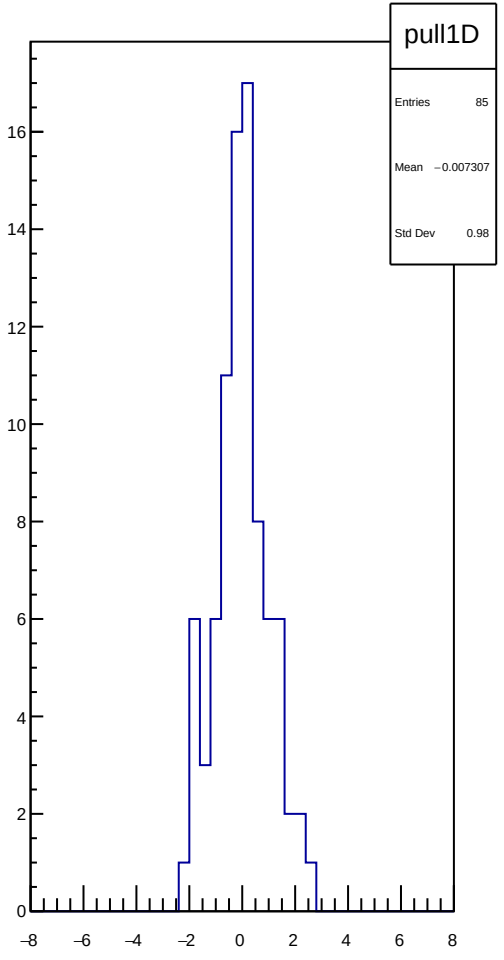

pull1D
Entries 85
Mean −0.007306
Std Dev 0.9799

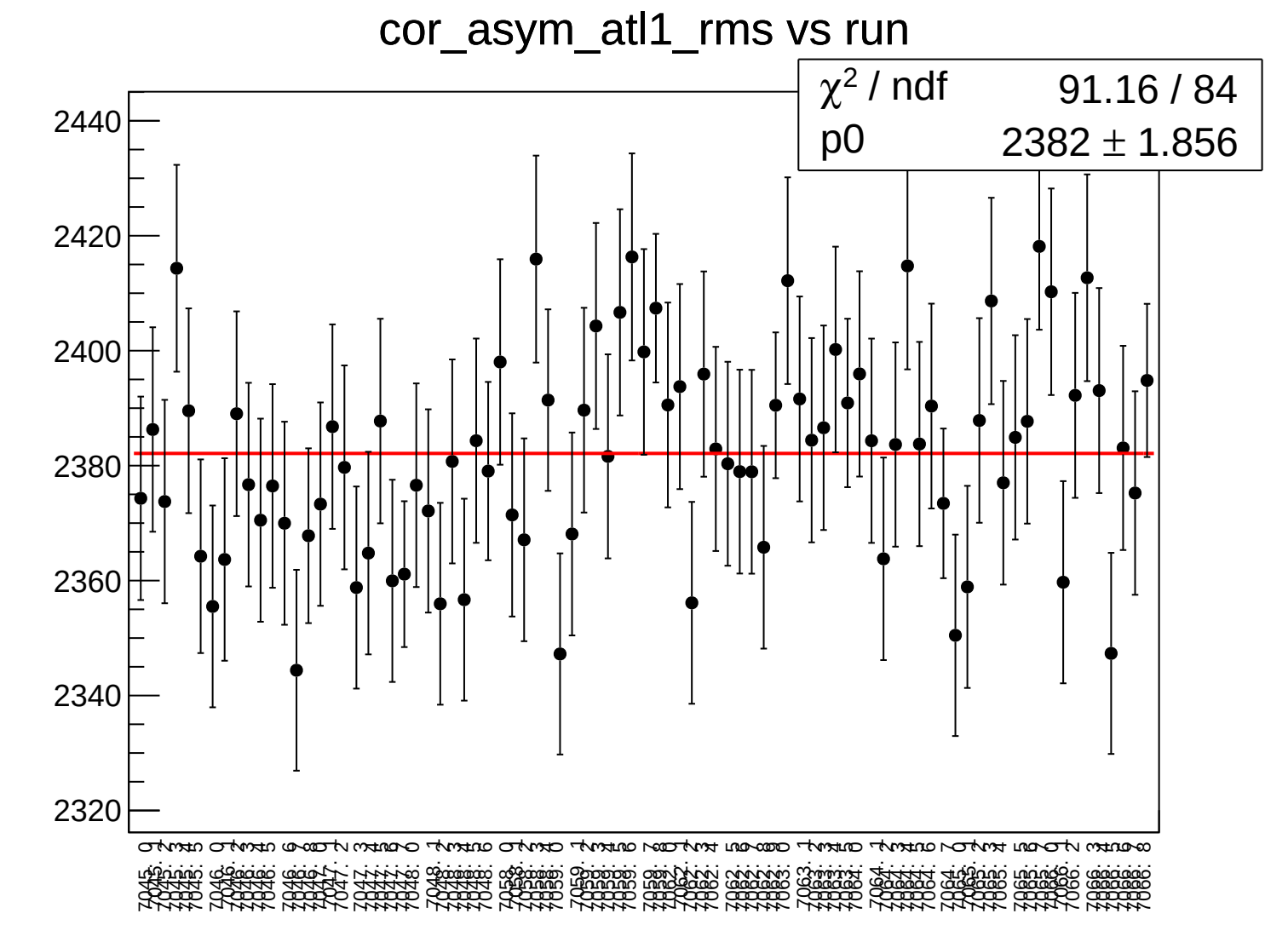

reg_asym_atl1_rms vs run
χ^2 / ndf 91.16 / 84
p0 2382 ± 1.856
2440
2420
2400
2380
2360
2340
2320

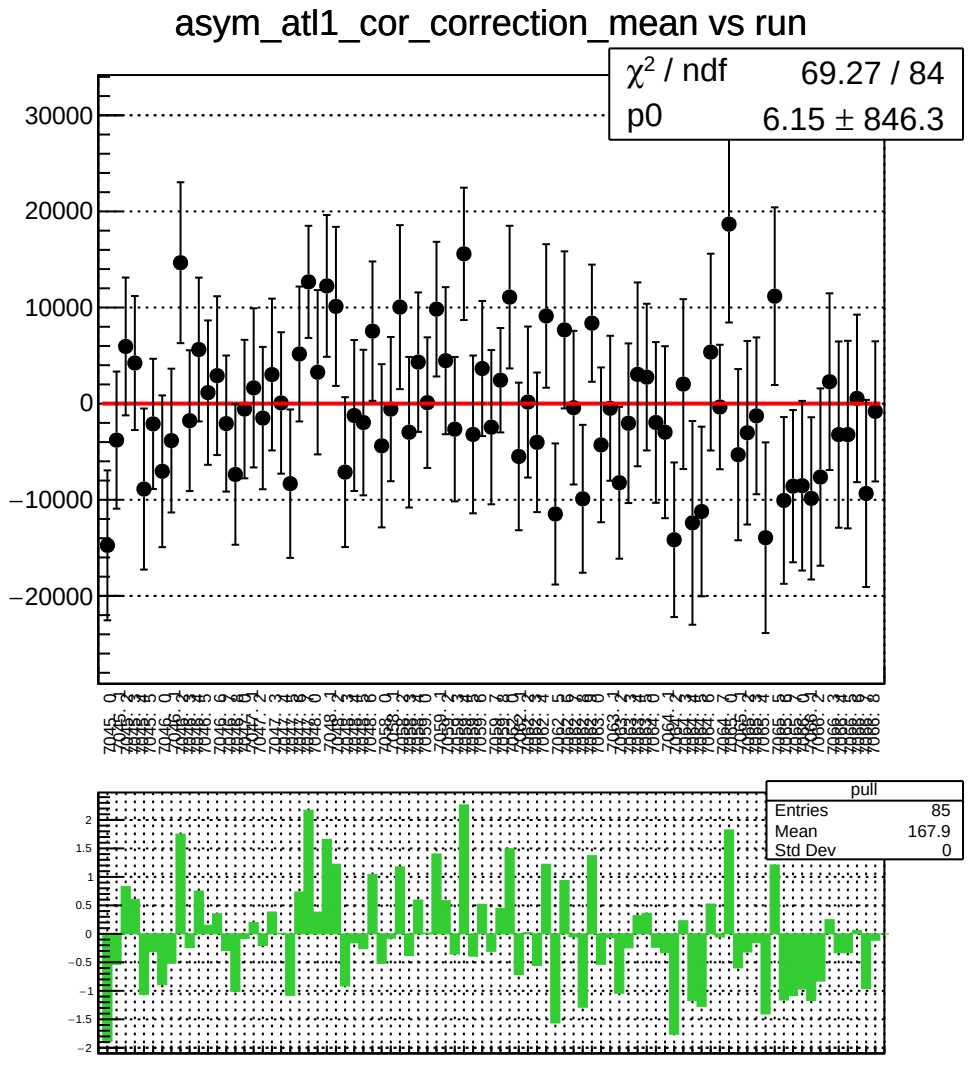

asym_atl1_reg_correction_mean vs run
χ² / ndf 69.27 / 84
p0 5.311 ± 846.3
pull
Entries 85
Mean 168.1
Std Dev 0
pull1D
Entries 85
Mean −0.03183
Std Dev 0.9022

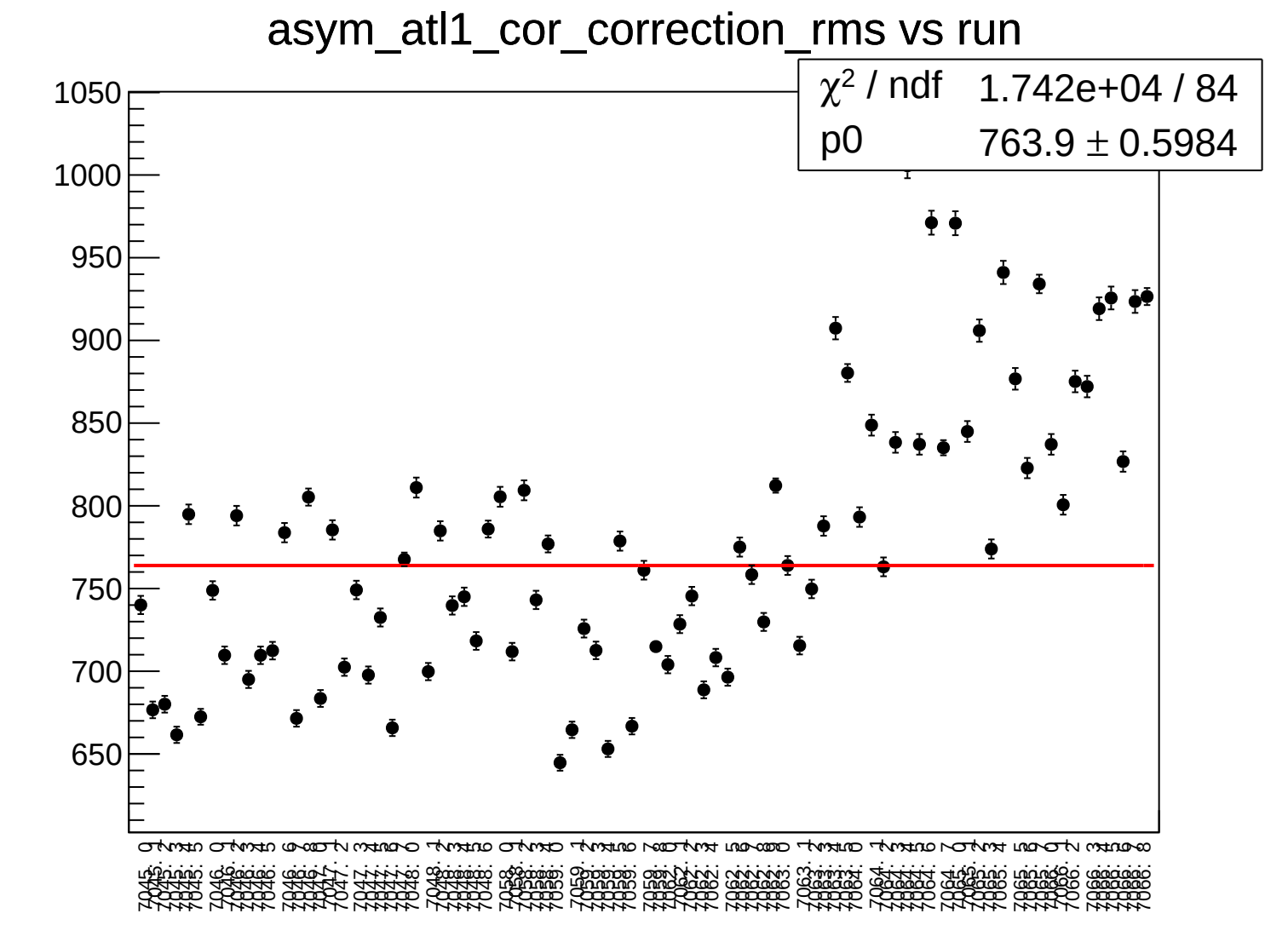

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.741e+04 / 84
p0 763.9 ± 0.5984
1050
1000
950
900
850
800
750
700
650

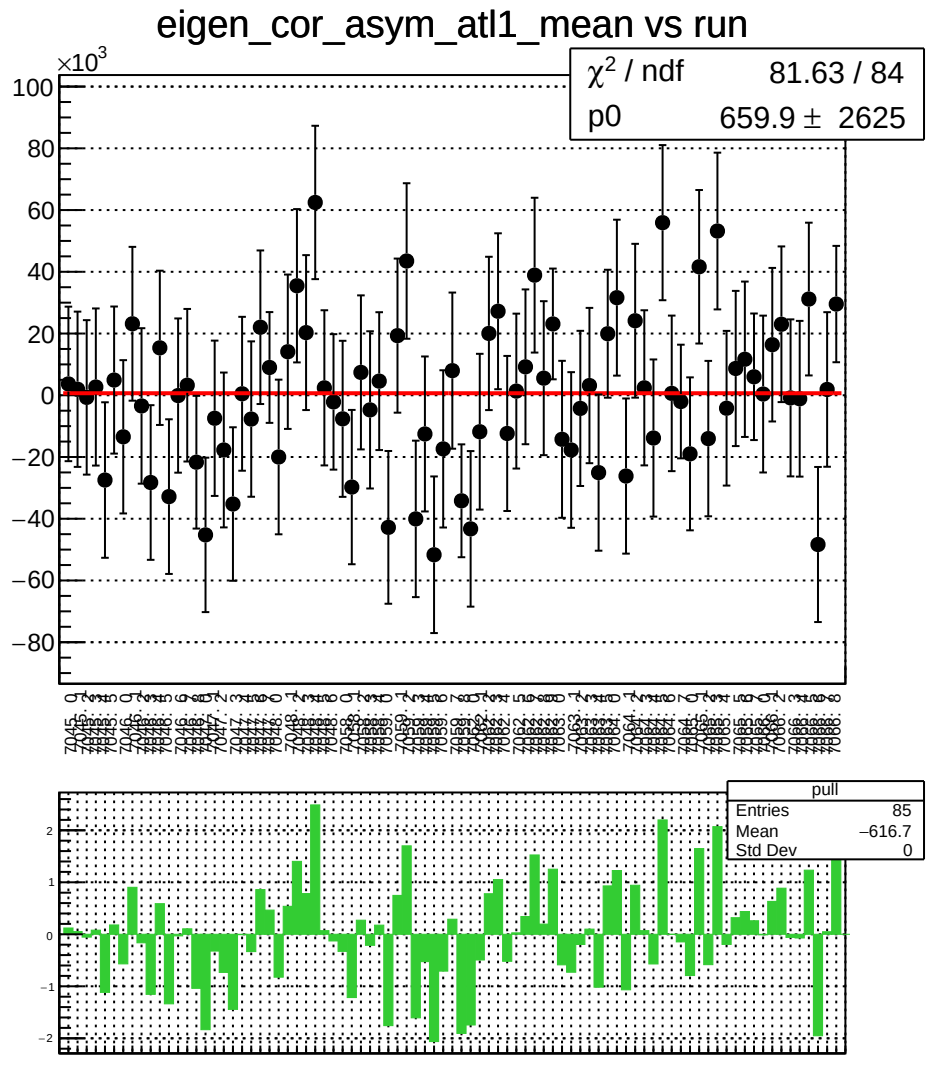

cor_asym_atl1_mean vs run
χ² / ndf 81.63 / 84
p0 659.9 ± 2625
×10³
pull
Entries 85
Mean −616.7
Std Dev 0

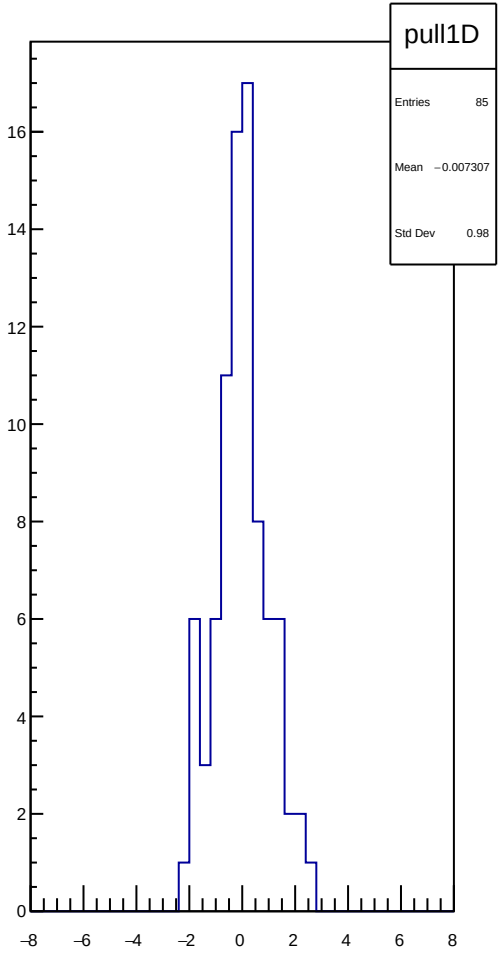

pull1D
Entries 85
Mean −0.007307
Std Dev 0.98

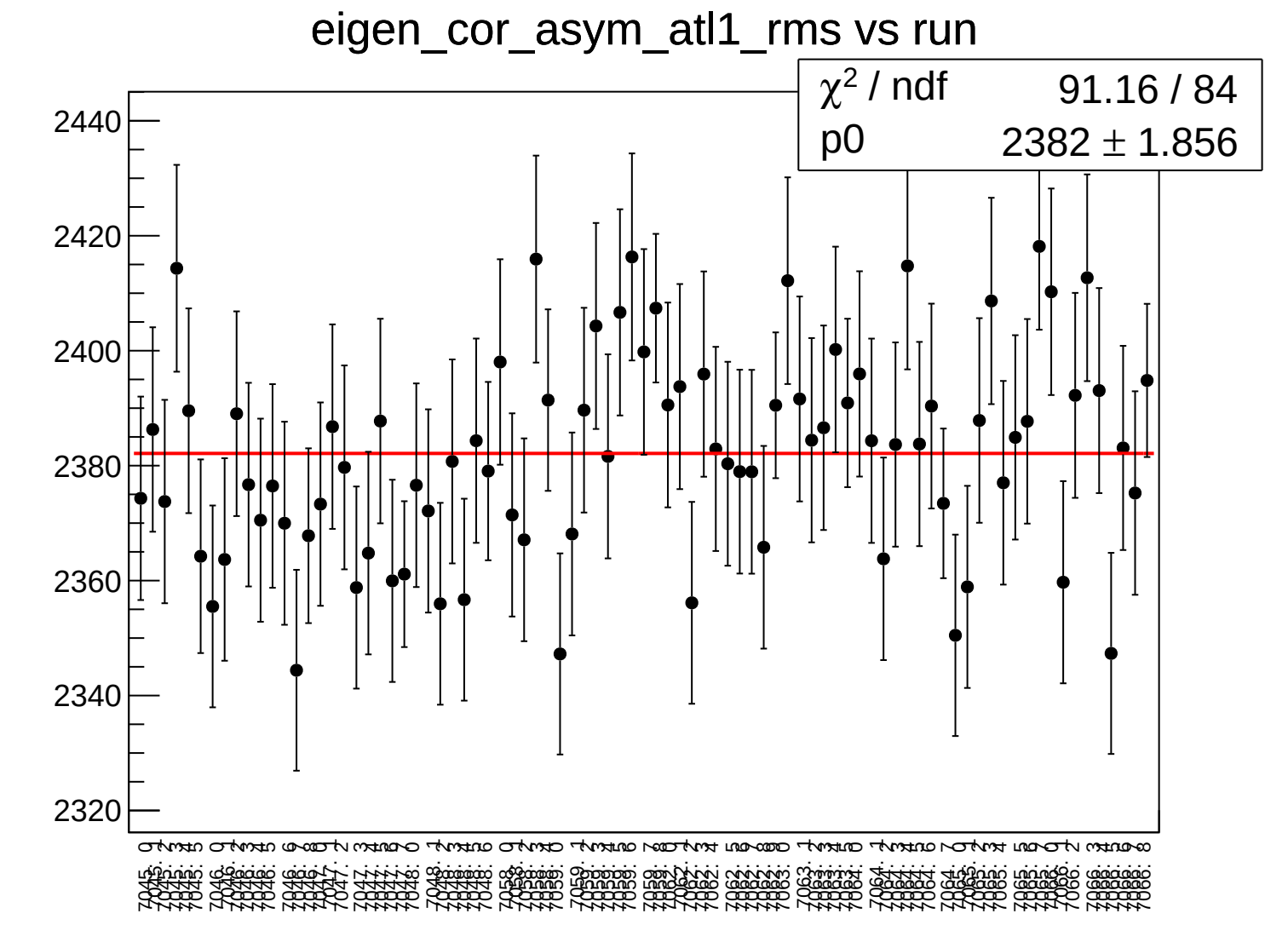

cor_asym_atl1_rms vs run
χ^2 / ndf 91.16 / 84
p0 2382 ± 1.856
2440
2420
2400
2380
2360
2340
2320

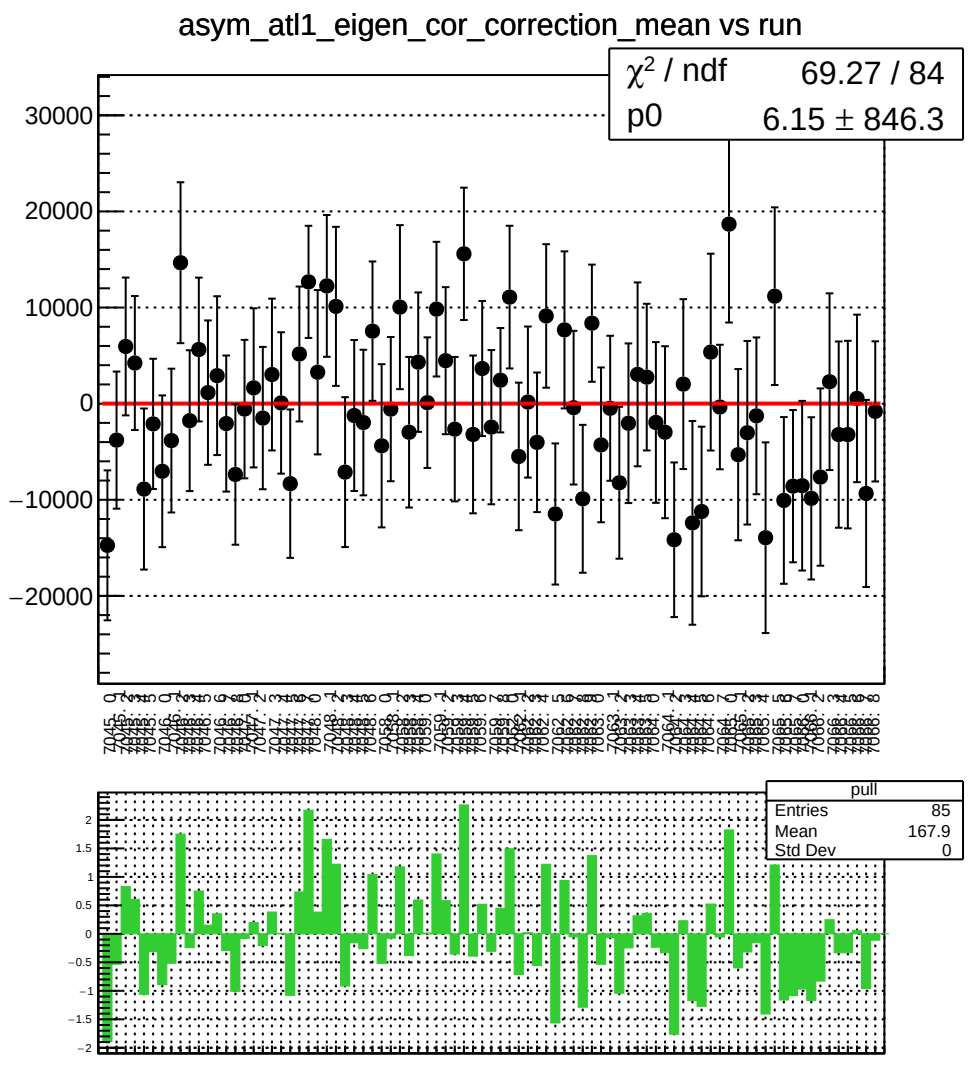

asym_atl1_cor_correction_mean vs run
χ² / ndf 69.27 / 84
p0 6.15 ± 846.3
pull
Entries 85
Mean 167.9
Std Dev 0
pull1D
Entries 85
Mean −0.03187
Std Dev 0.9022

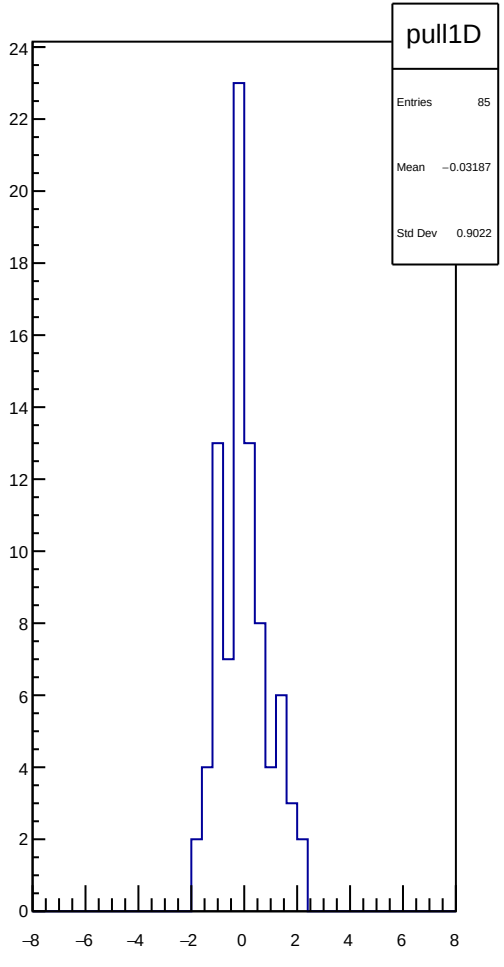

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.742e+04 / 84
p0 763.9 ± 0.5984
1050
1000
950
900
850
800
750
700
650

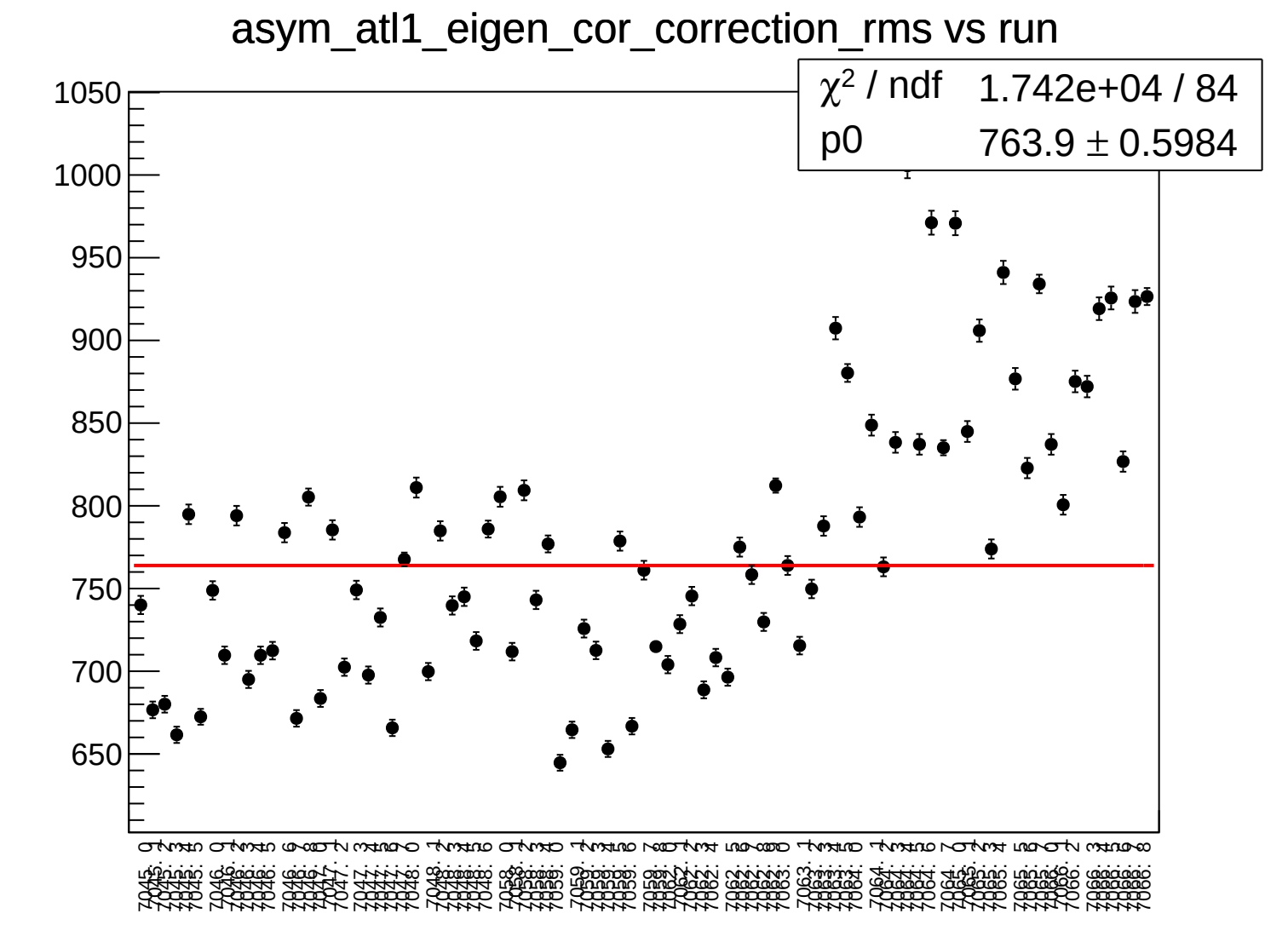

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 81.63 / 84
p0 659.9 ± 2625
pull
Entries 85
Mean −616.7
Std Dev 0

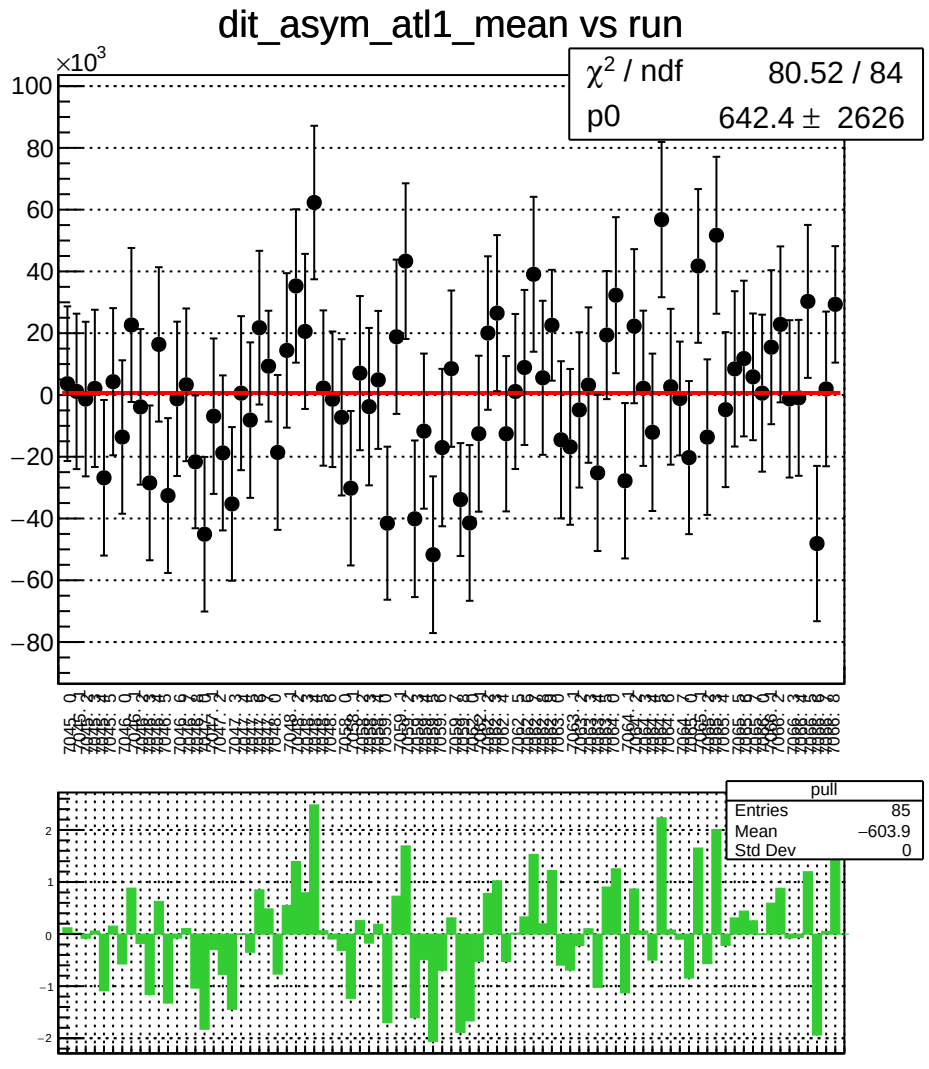

pull1D
Entries 85
Mean −0.007307
Std Dev 0.98

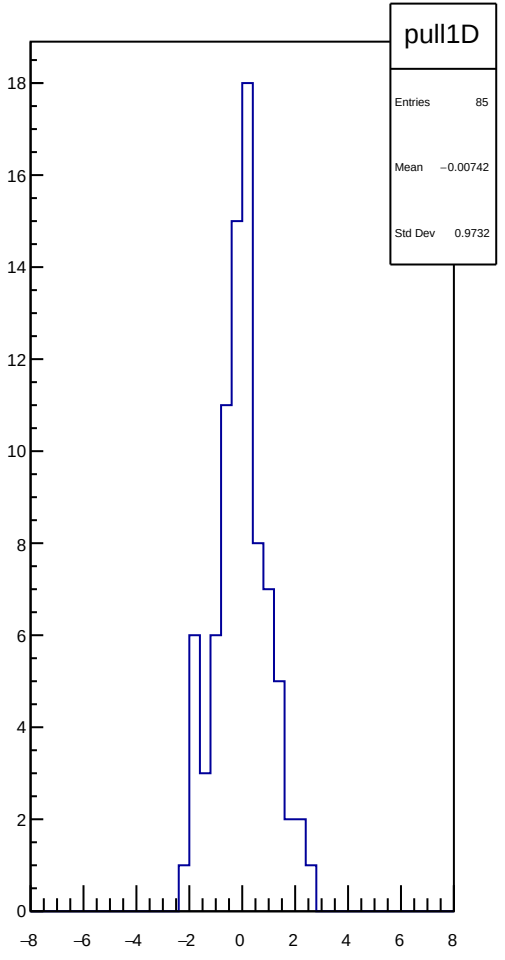

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 91.16 / 84
p0 2382 ± 1.856
2440
2420
2400
2380
2360
2340
2320

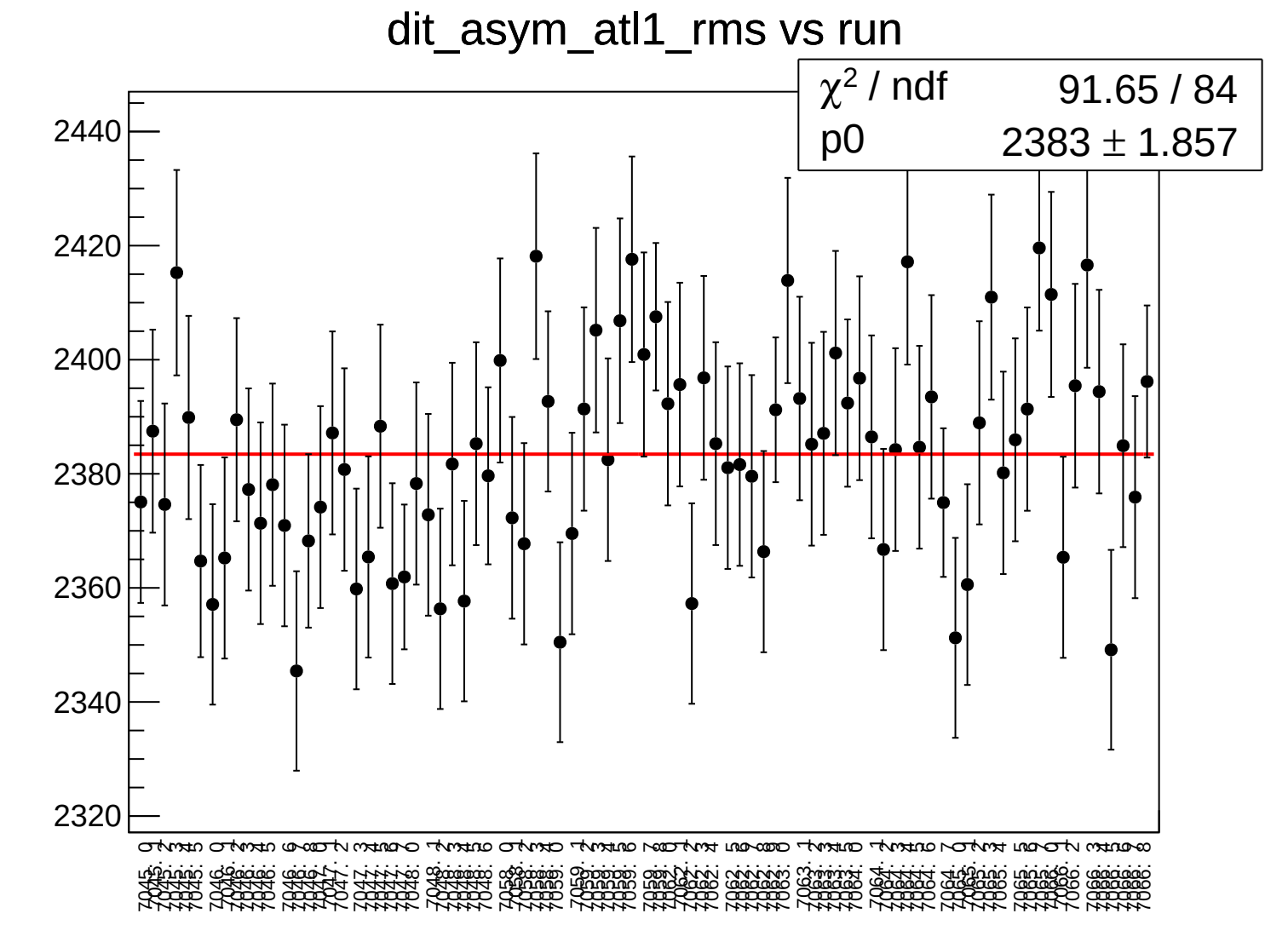

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 69.27 / 84
p0 6.15 ± 846.3
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 167.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

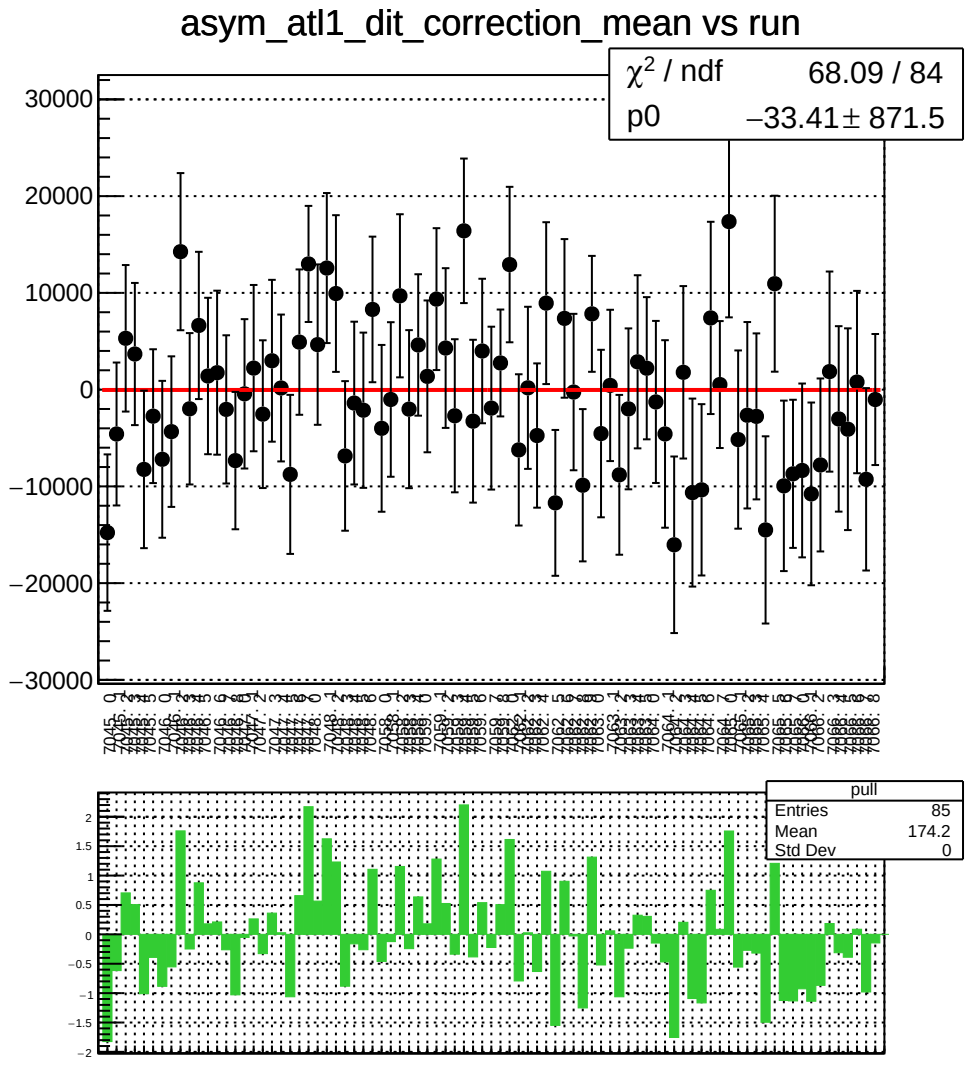

pull1D
Entries 85
Mean −0.03187
Std Dev 0.9022
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

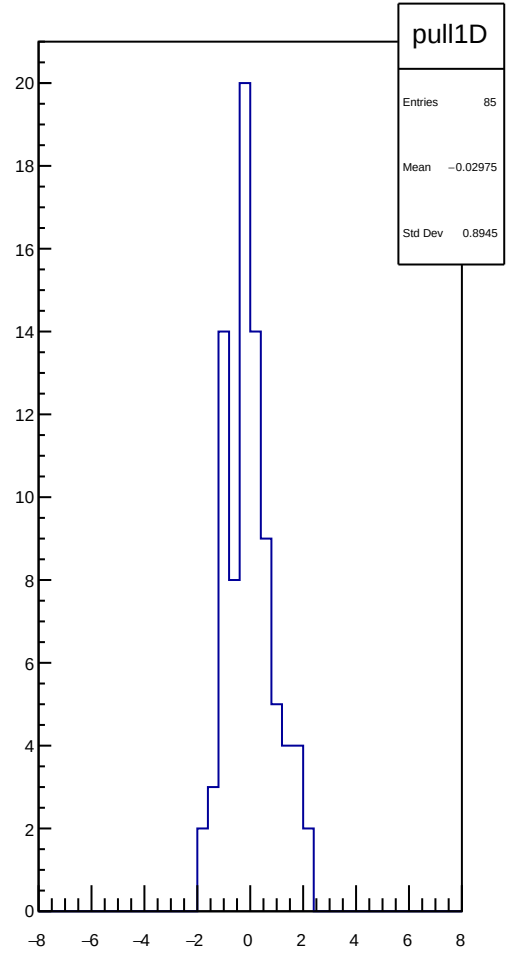

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.742e+04 / 84
p0 763.9 ± 0.5984
1050
1000
950
900
850
800
750
700
650

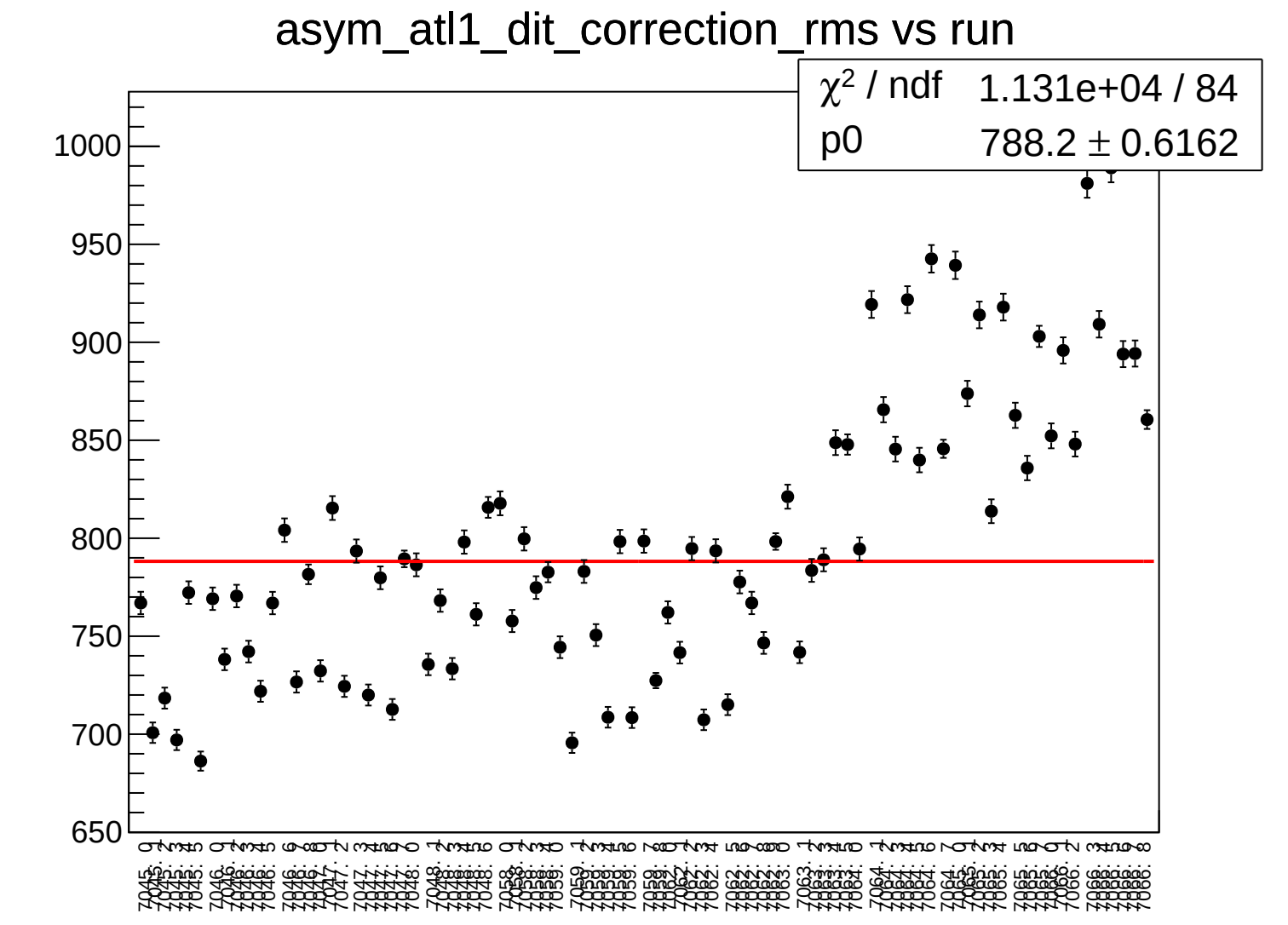

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 80.52 / 84
p0 642.4 ± 2626
pull
Entries 85
Mean −603.9
Std Dev 0

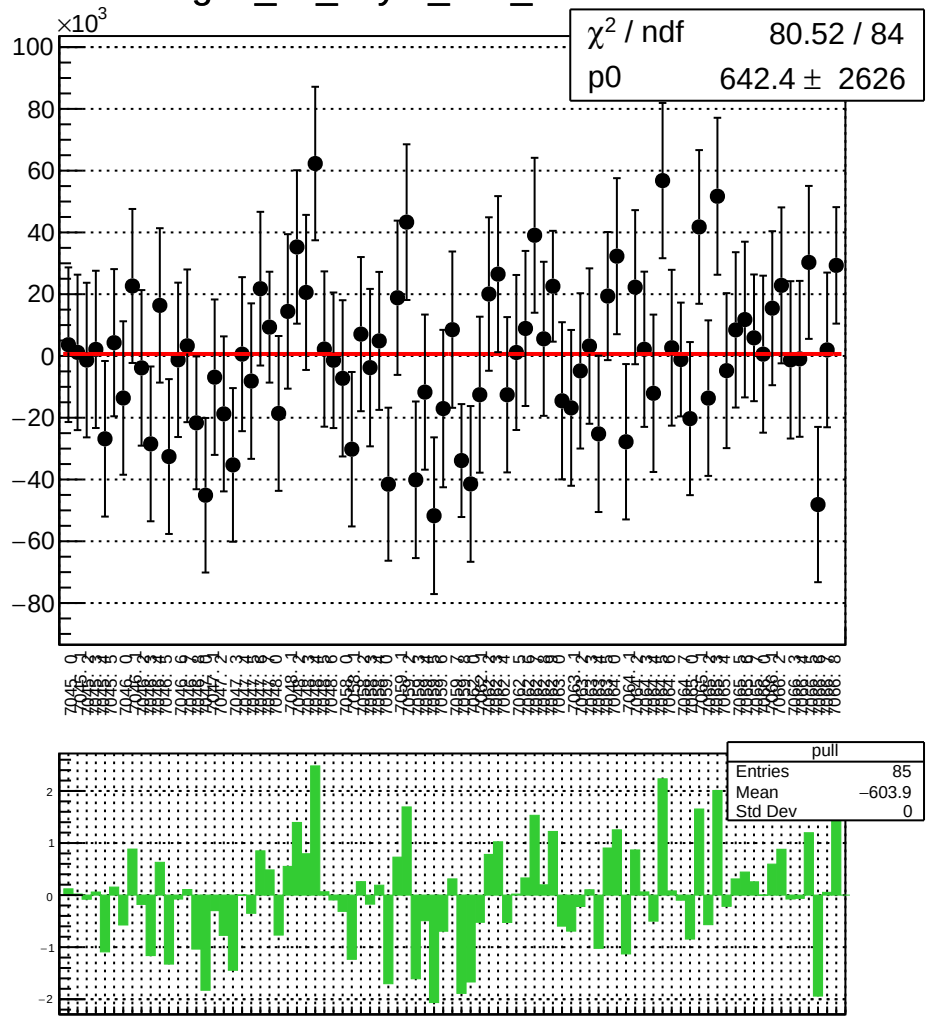

pull1D
Entries 85
Mean −0.00742
Std Dev 0.9732

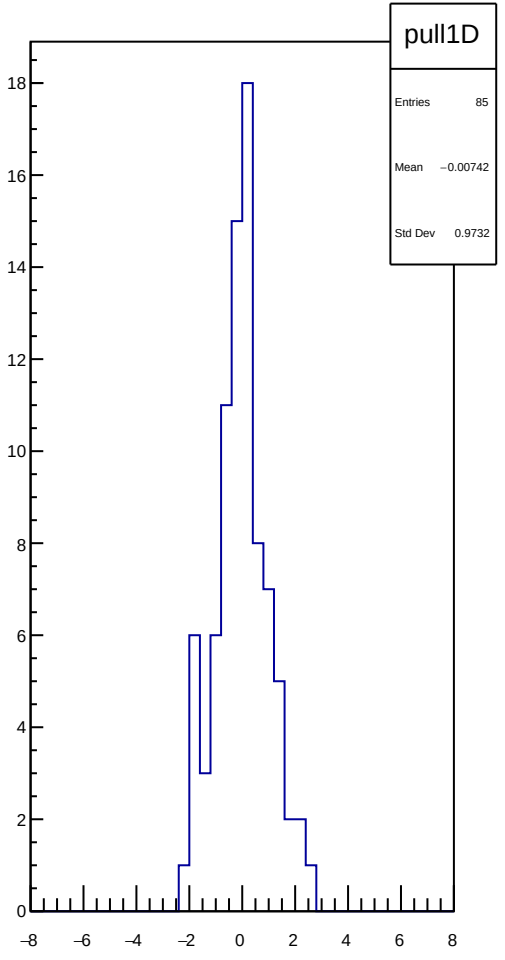

dit_asym_atl1_rms vs run
χ^2 / ndf 91.65 / 84
p0 2383 ± 1.857
2440
2420
2400
2380
2360
2340
2320

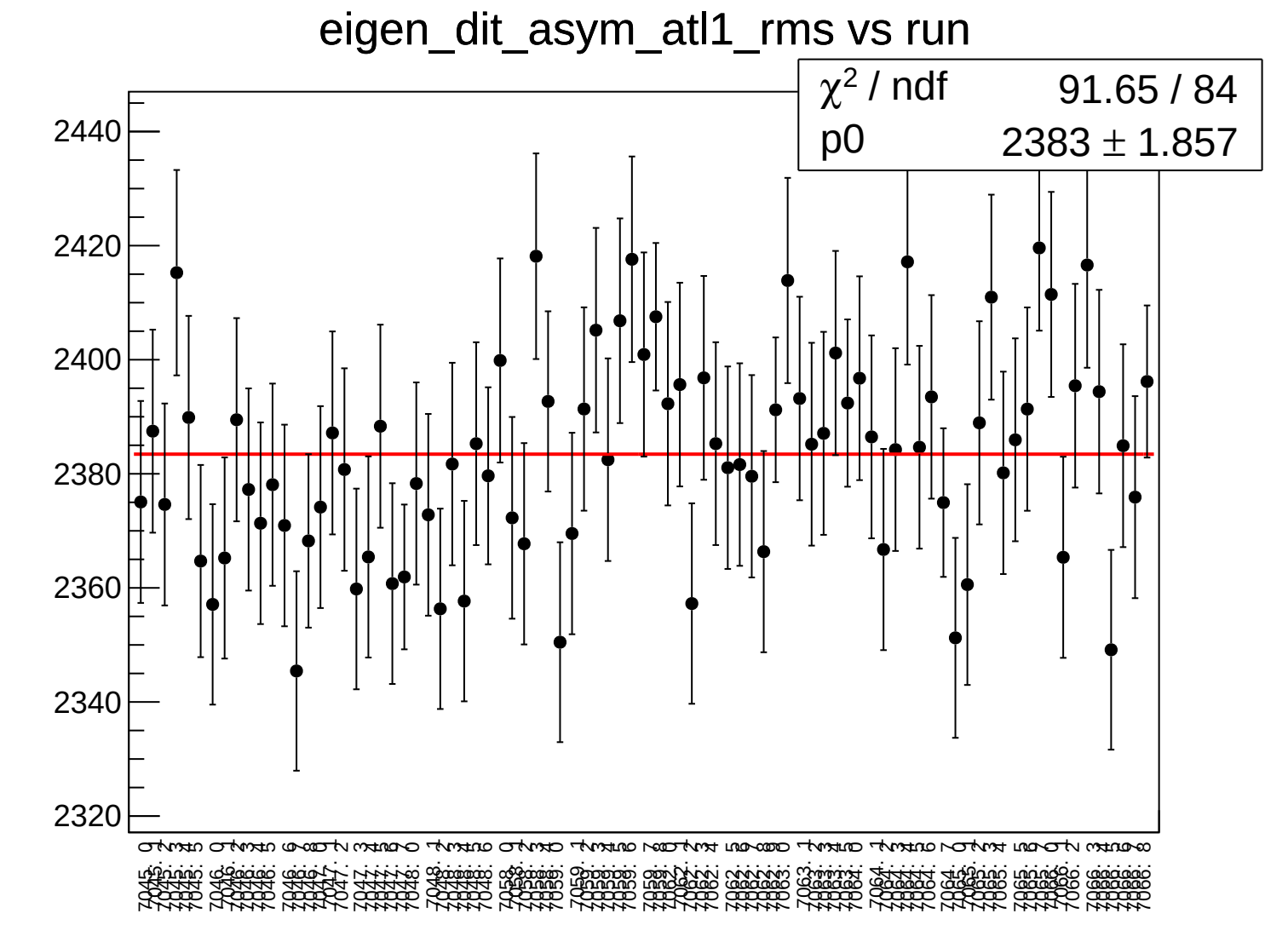

asym_atl1_dit_correction_mean vs run
χ² / ndf 68.09 / 84
p0 −33.41 ± 871.5
pull
Entries 85
Mean 174.2
Std Dev 0

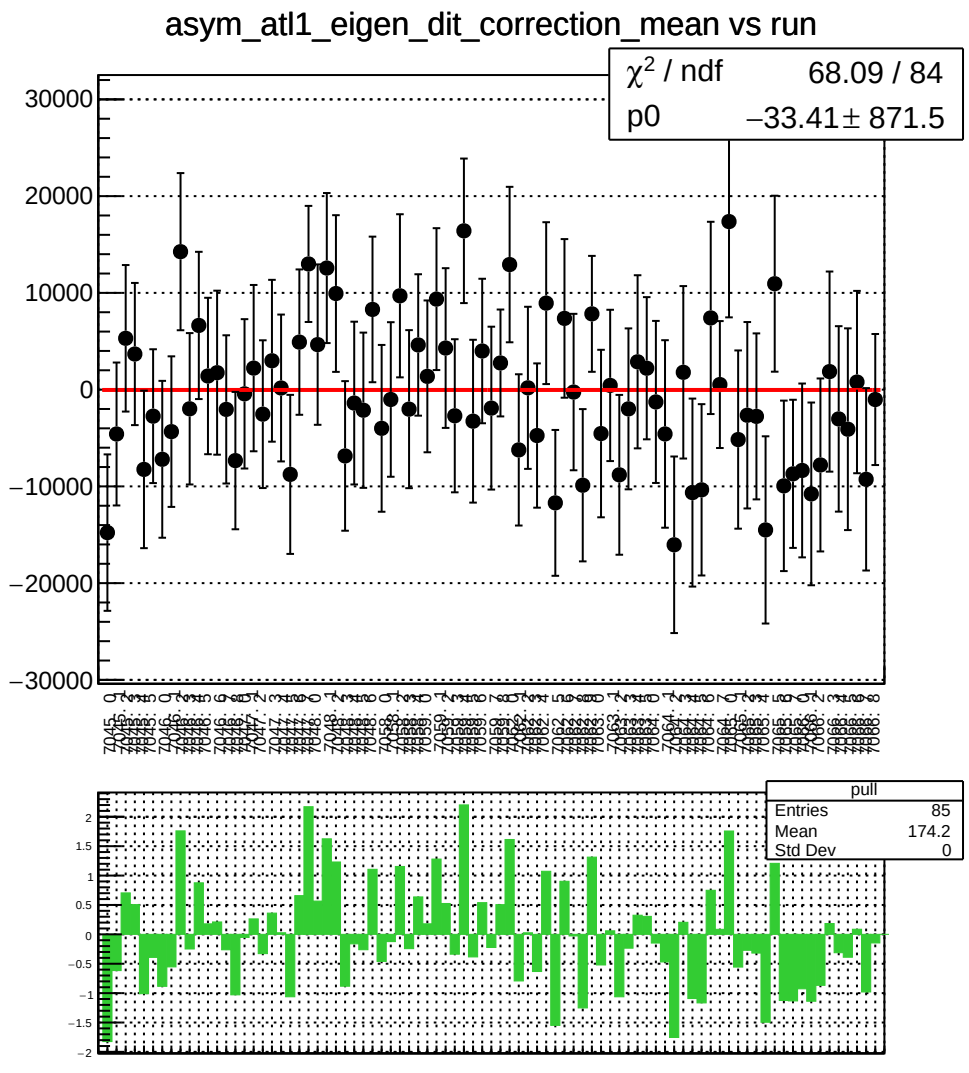

pull1D
Entries 85
Mean −0.02975
Std Dev 0.8945

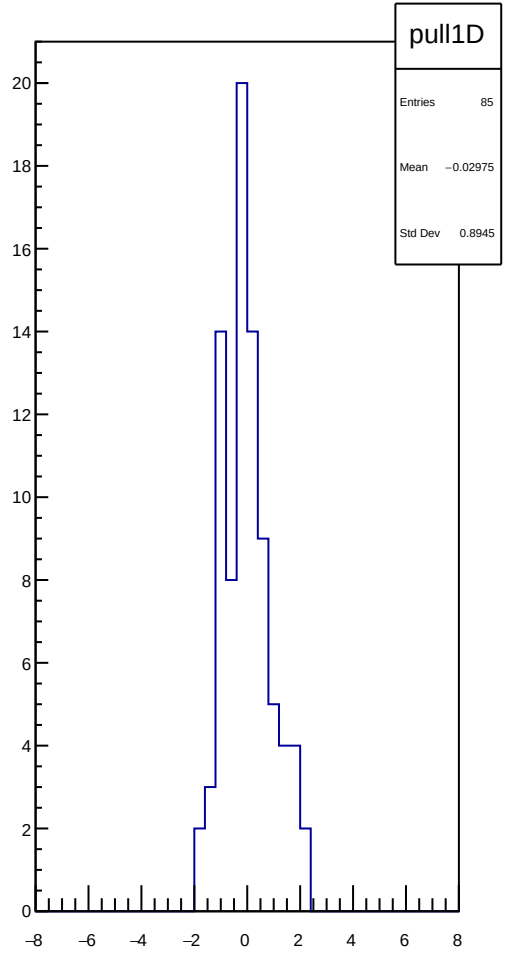

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.131e+04 / 84
p0 788.2 ± 0.6162
1000
950
900
850
800
750
700
650

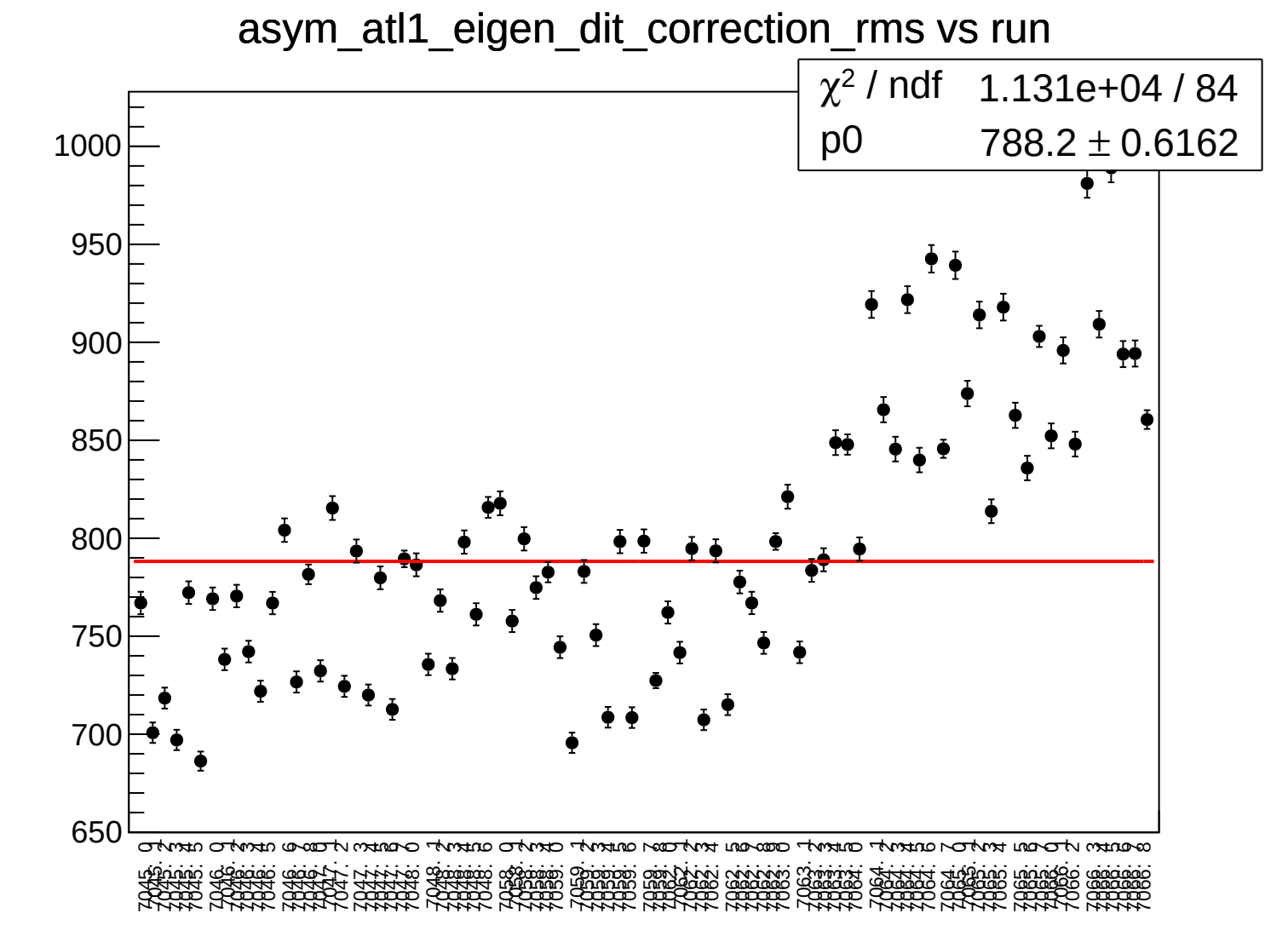

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 80.52 / 84
p0 642.4 ± 2626
pull
Entries 85
Mean −603.9
Std Dev 0

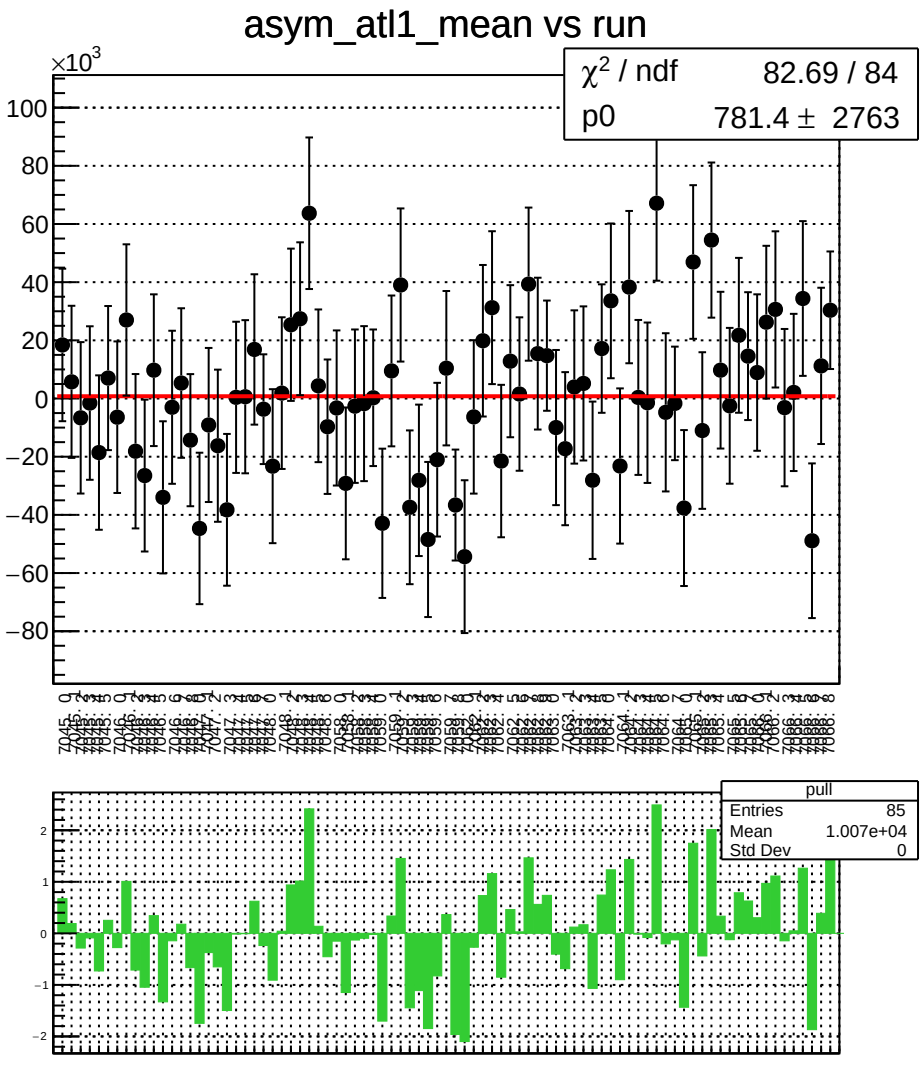

pull1D
Entries 85
Mean −0.00742
Std Dev 0.9732

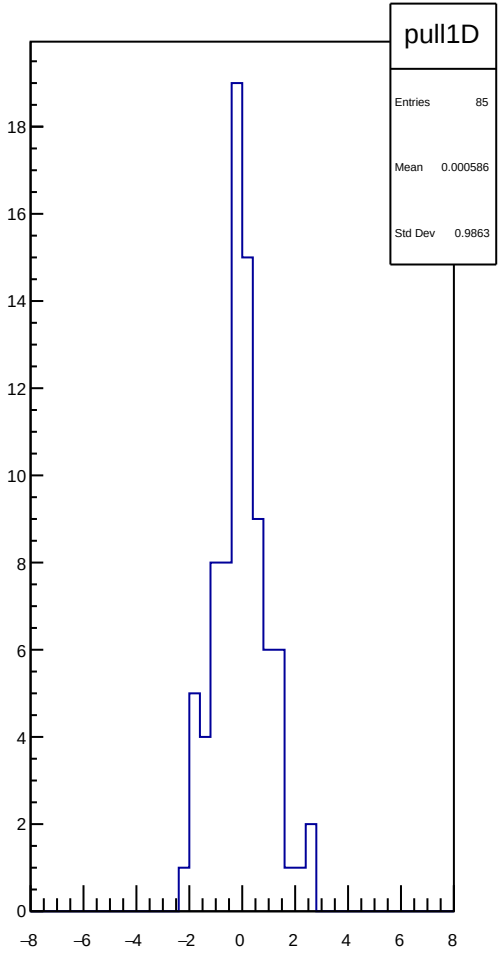

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 91.65 / 84
p0 2383 ± 1.857
2440
2420
2400
2380
2360
2340
2320

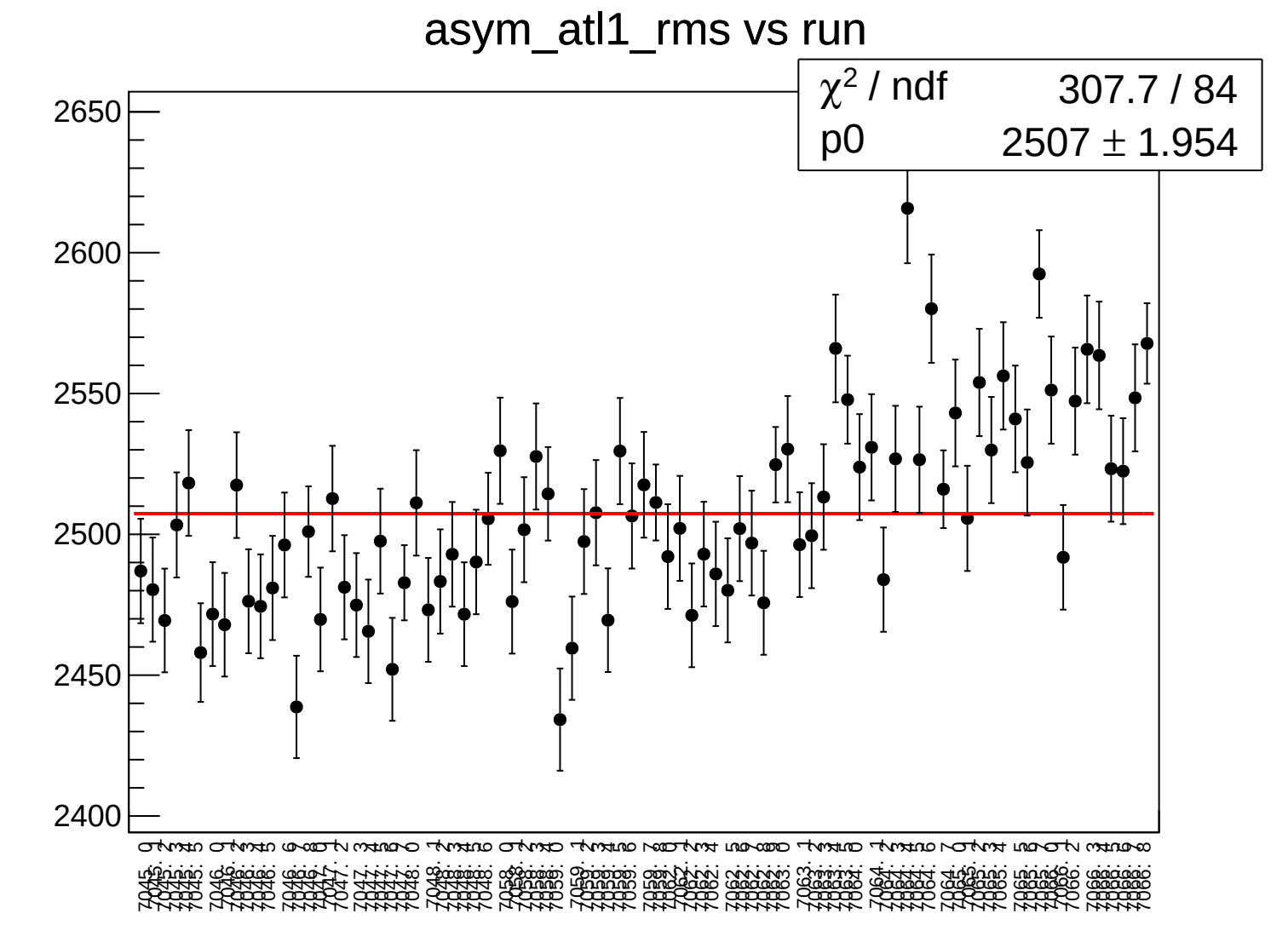

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 68.09 / 84
p0 −33.41 ± 871.5
pull
Entries 85
Mean 174.2
Std Dev 0

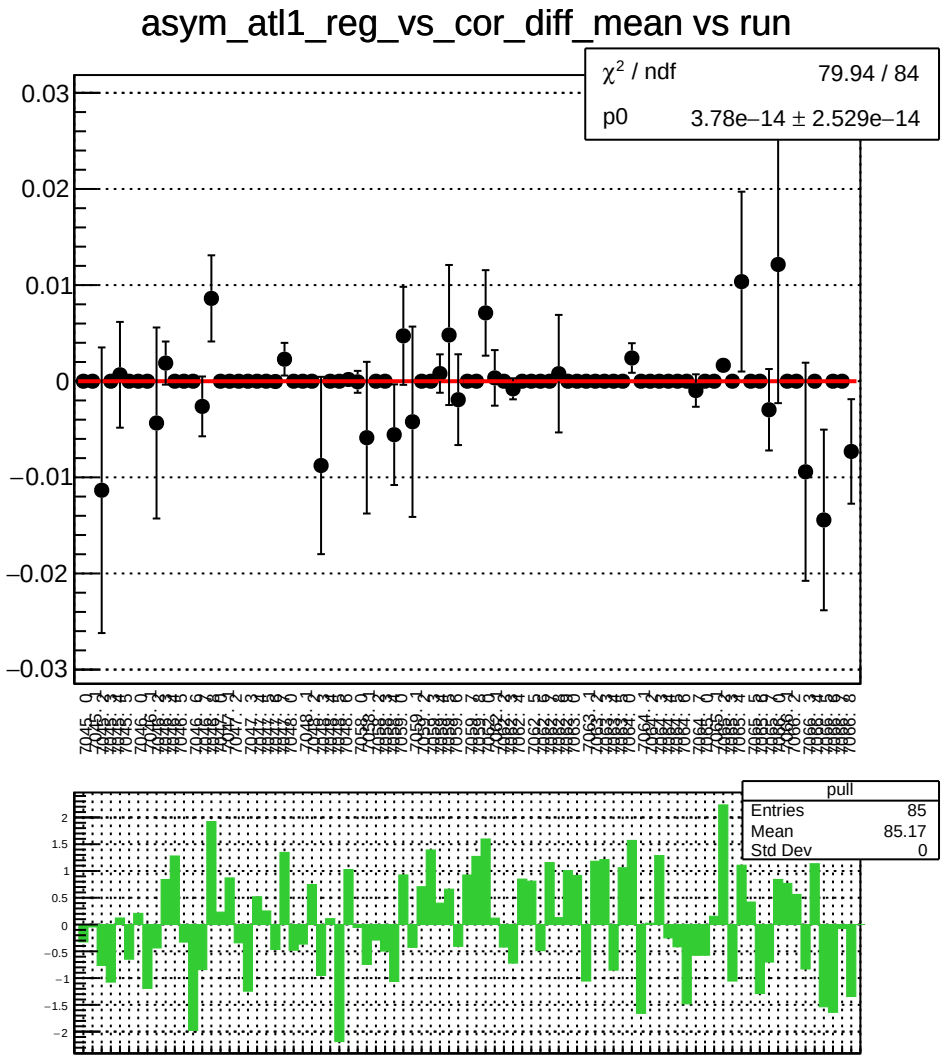

pull1D
Entries 85
Mean −0.02975
Std Dev 0.8945

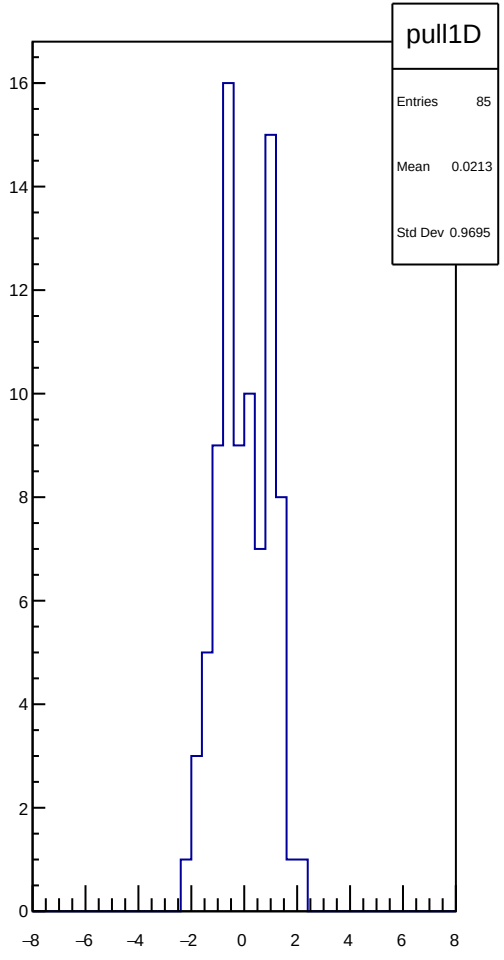

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.131e+04 / 84
p0 788.2 ± 0.6162
1000
950
900
850
800
750
700
650

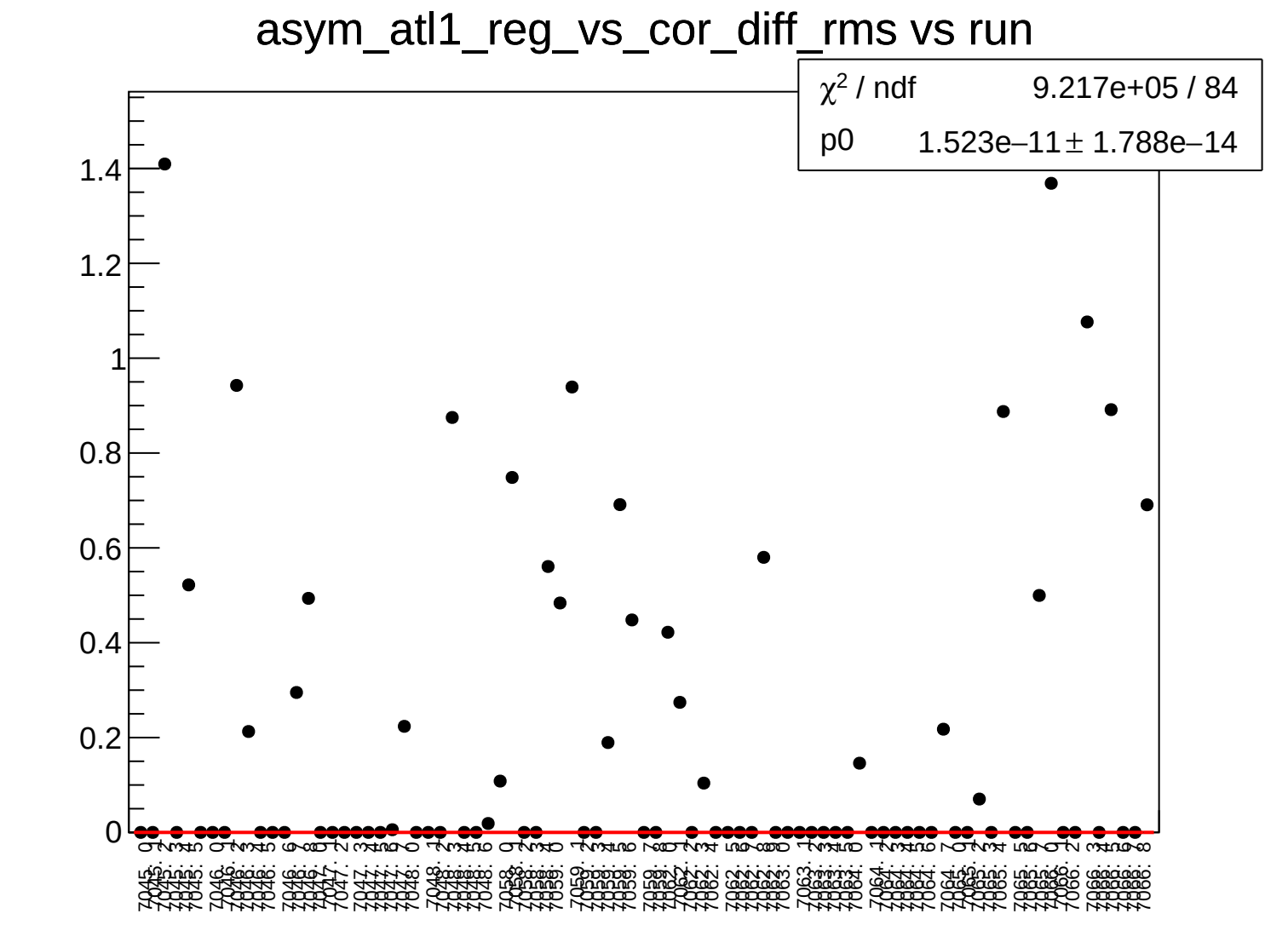

asym_atl1_mean vs run
×10^3
χ^2 / ndf 82.69 / 84
p0 781.4 ± 2763
pull
Entries 85
Mean 1.007e+04
Std Dev 0

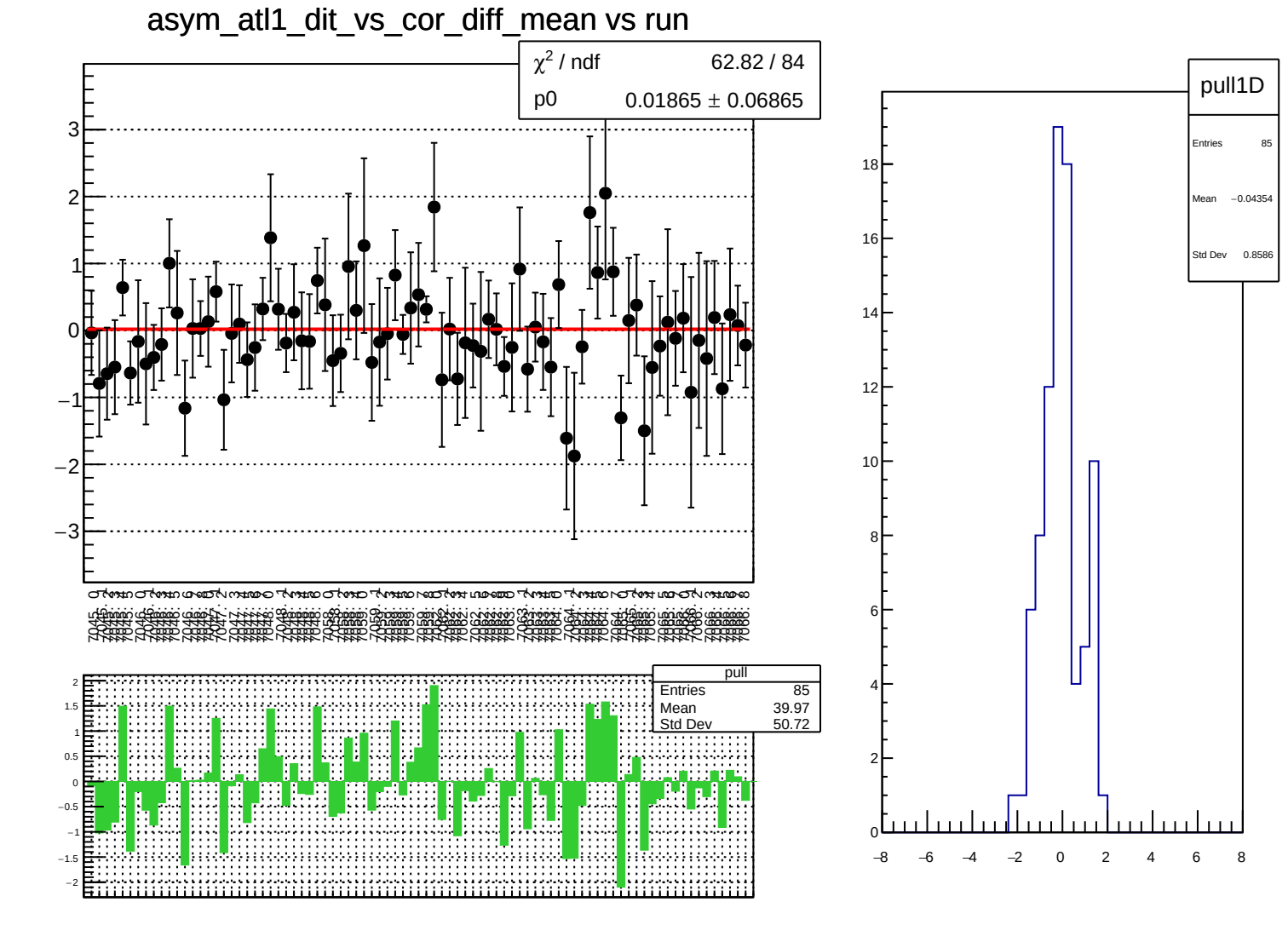

pull1D
Entries 85
Mean 0.000586
Std Dev 0.9863

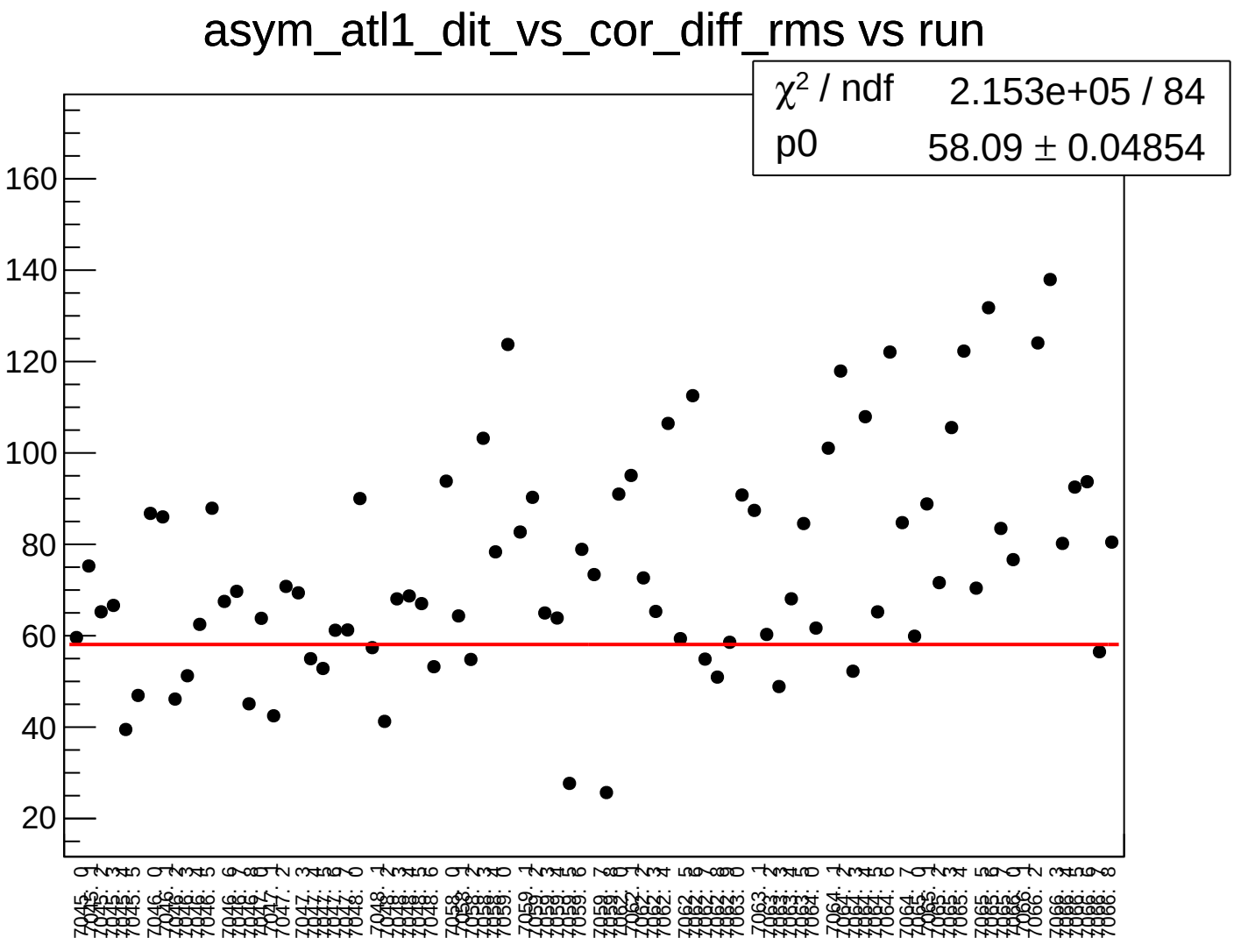

asym_atl1_rms vs run
χ² / ndf 307.7 / 84
p0 2507 ± 1.954
2650
2600
2550
2500
2450
2400

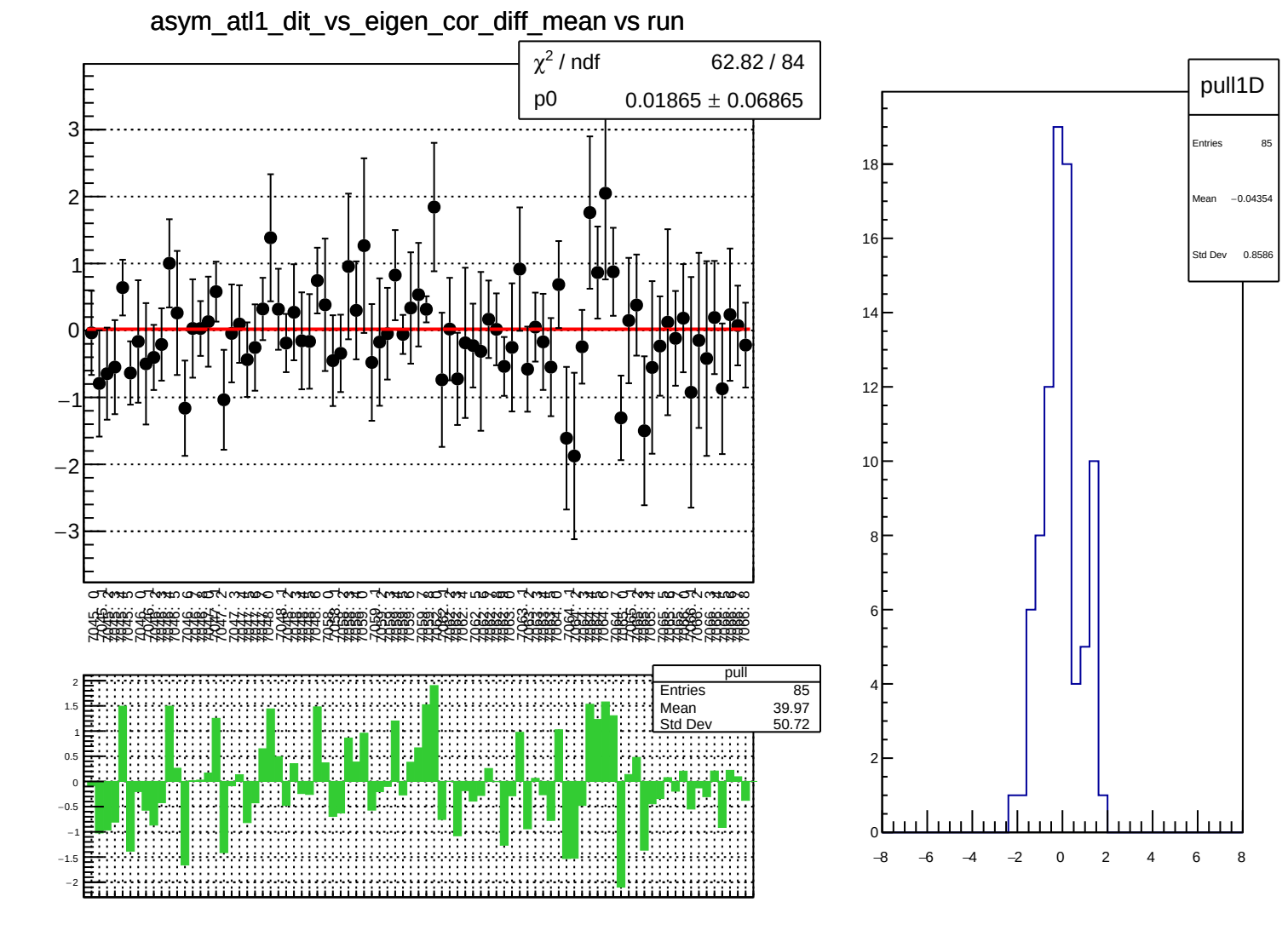

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 79.94 / 84
p0 3.78e−14 ± 2.529e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 85.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

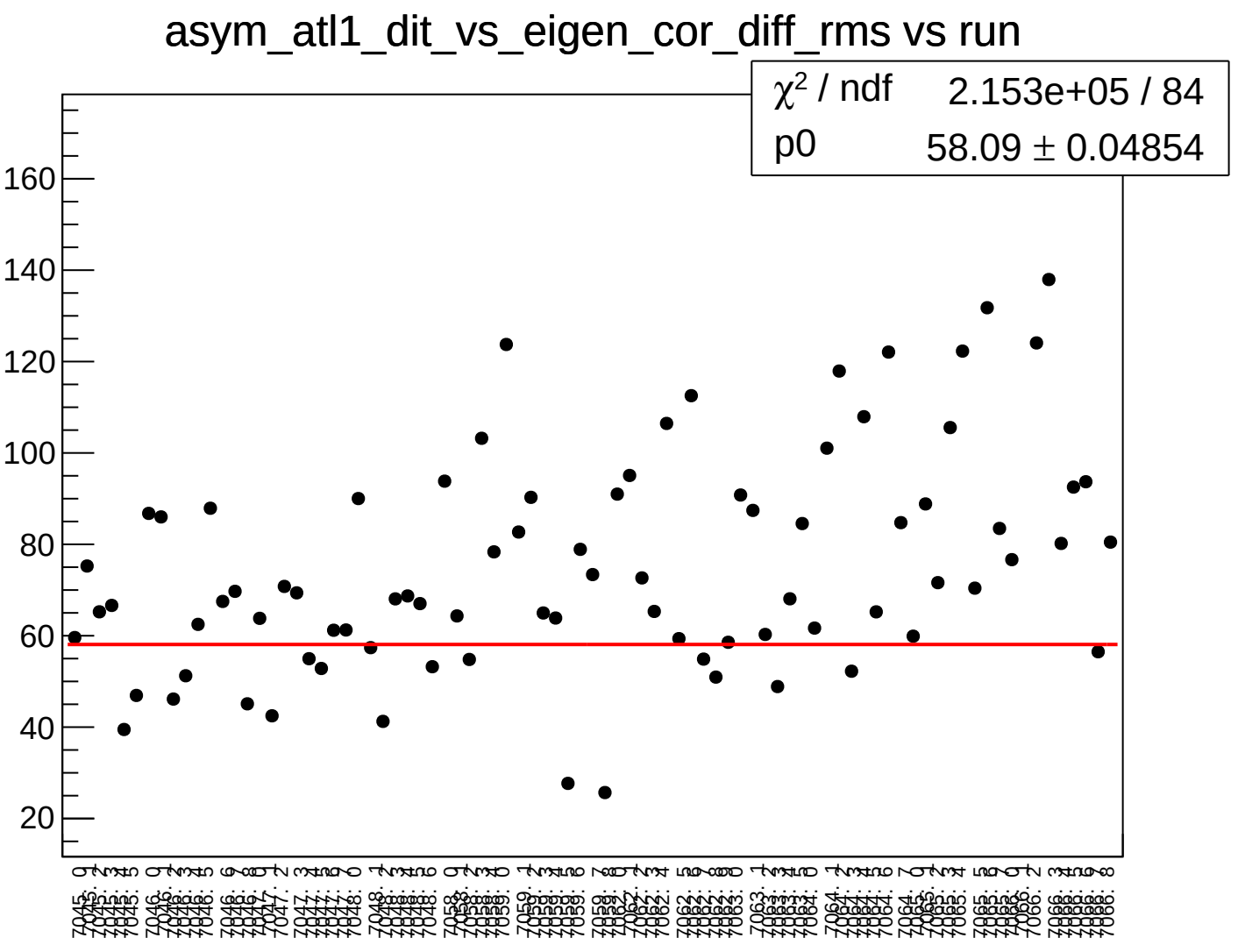

pull1D
Entries 85
Mean 0.0213
Std Dev 0.9695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

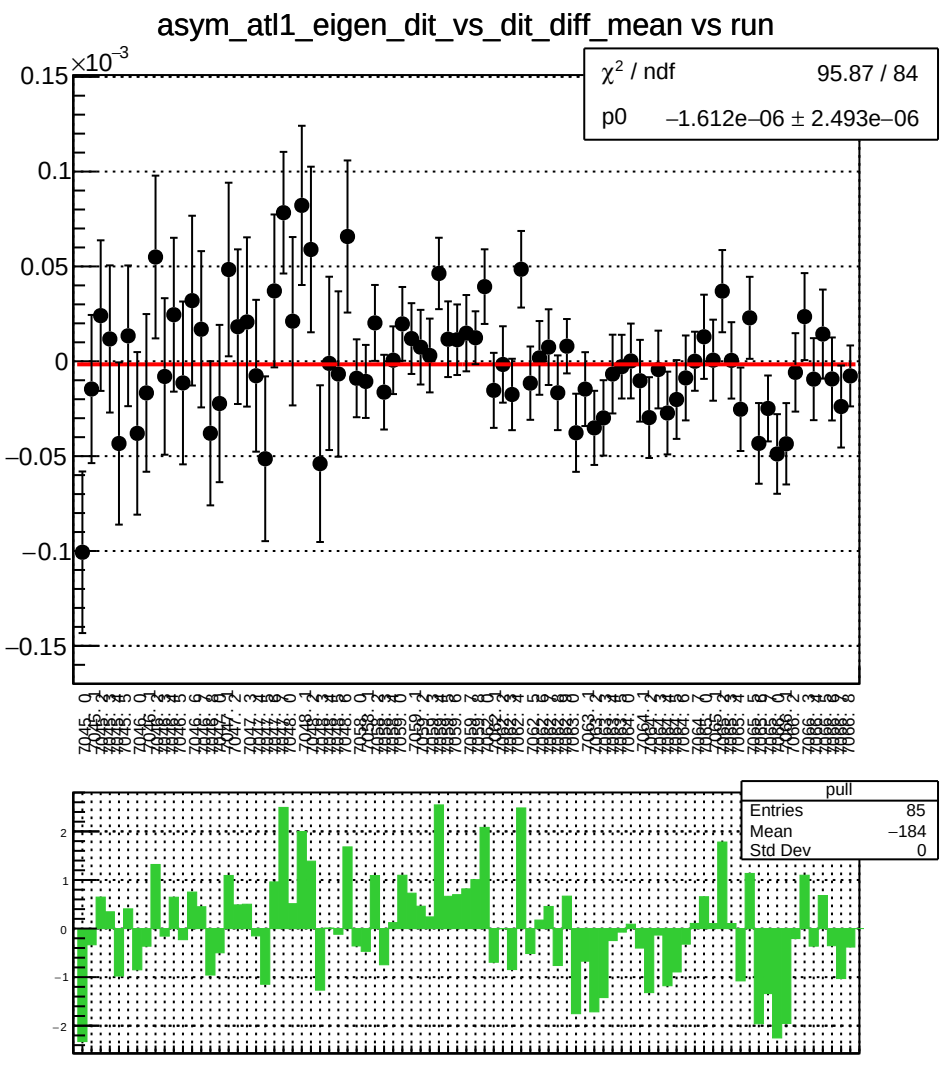

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.217e+05 / 84
p0 1.523e−11 ± 1.788e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

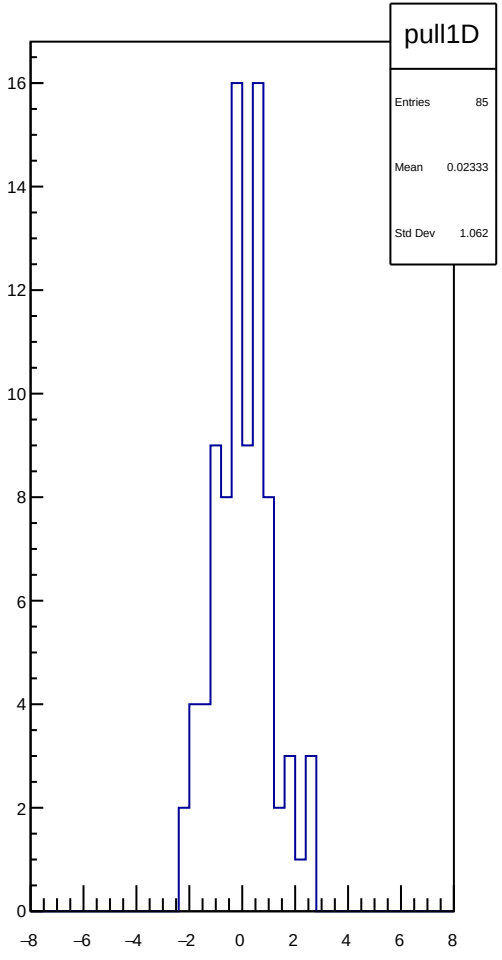

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 62.82 / 84
p0 0.01865 ± 0.06865
pull
Entries 85
Mean 39.97
Std Dev 50.72
pull1D
Entries 85
Mean −0.04354
Std Dev 0.8586

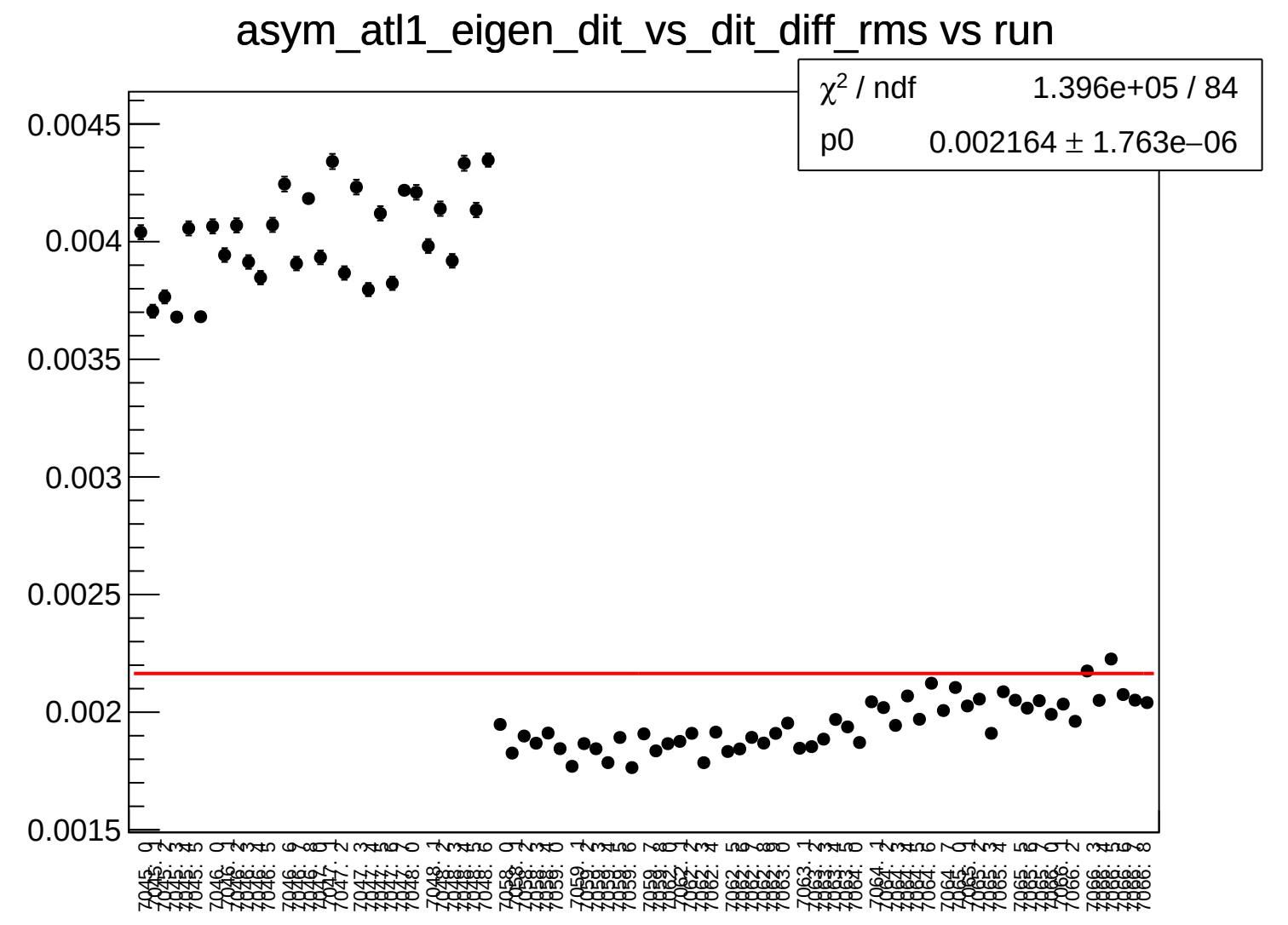

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 84
p0 58.09 ± 0.04854
160
140
120
100
80
60
40
20

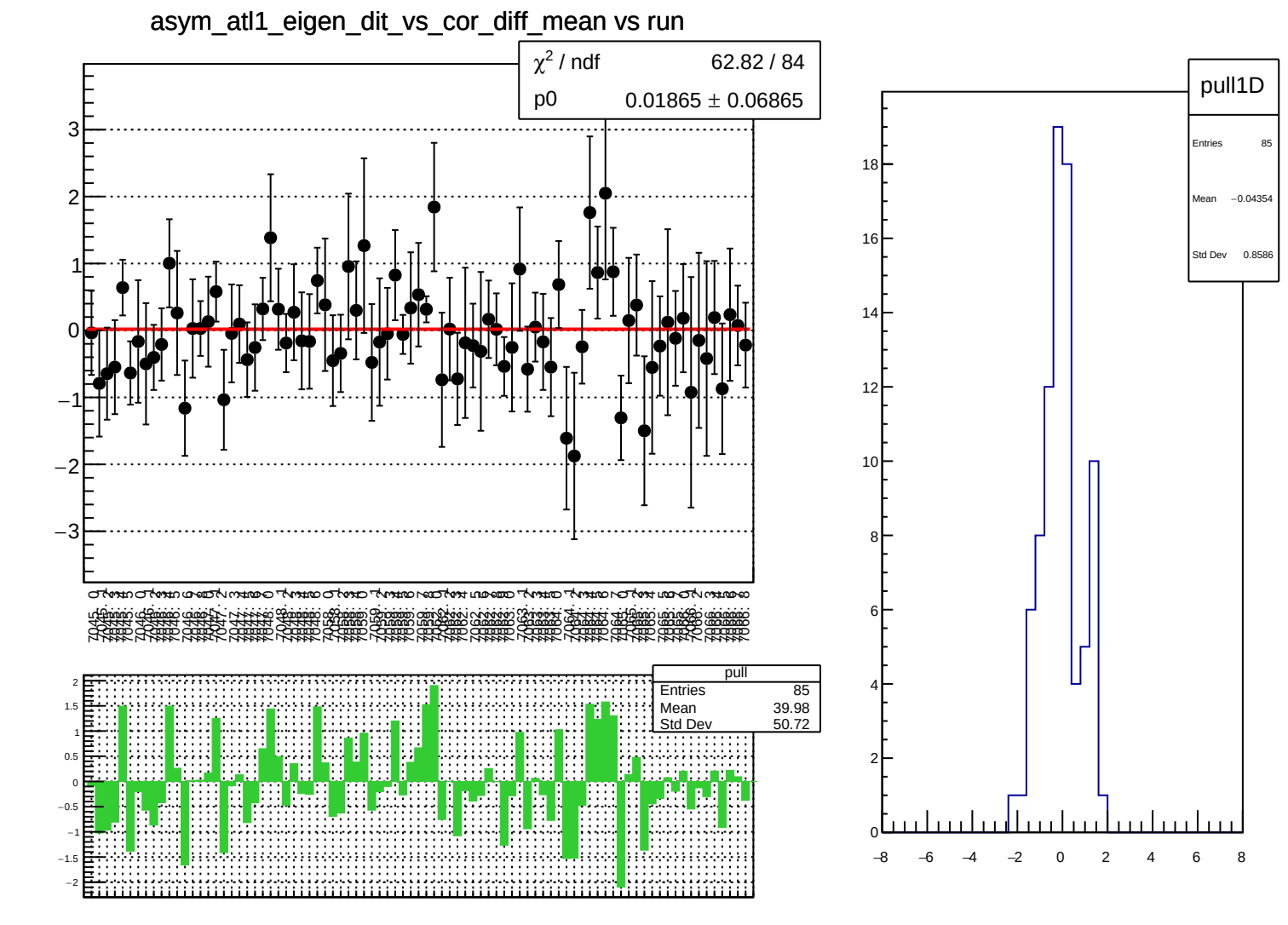

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.82 / 84
p0 0.01865 ± 0.06865
pull
Entries 85
Mean 39.97
Std Dev 50.72
pull1D
Entries 85
Mean −0.04354
Std Dev 0.8586

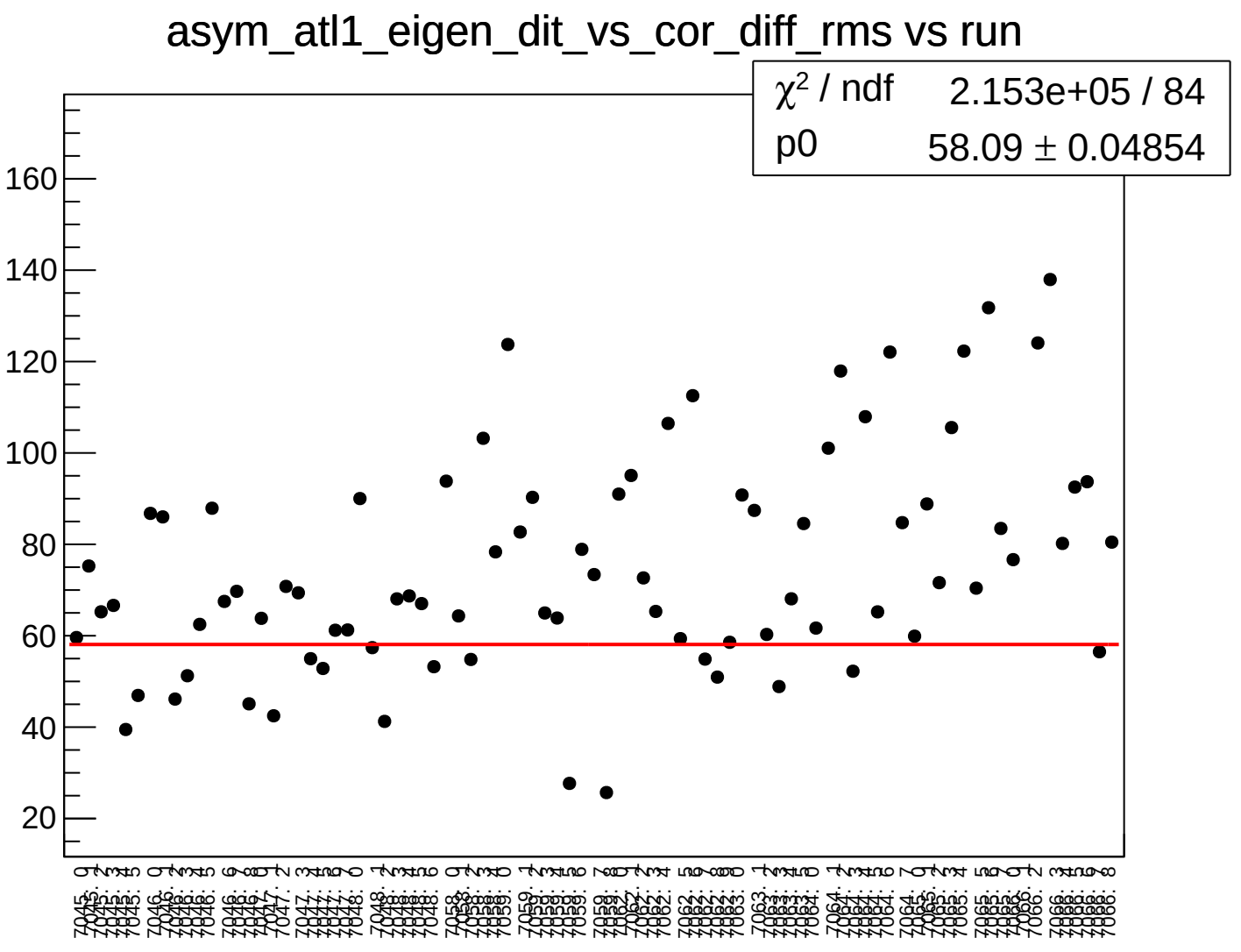

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 84
p0 58.09 ± 0.04854
160
140
120
100
80
60
40
20

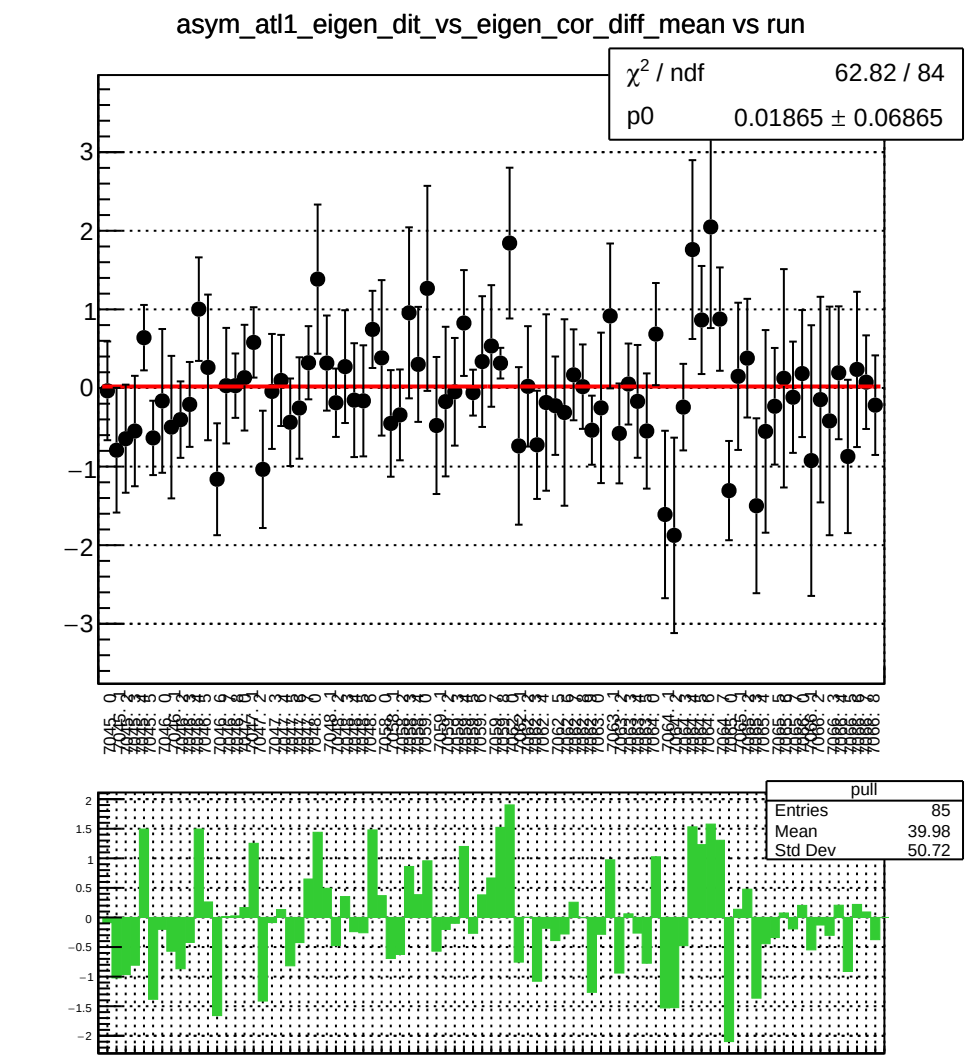

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.87 / 84
p0 −1.612e−06 ± 2.493e−06
×10⁻³
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −184
Std Dev 0
2
1
0
−1
−2

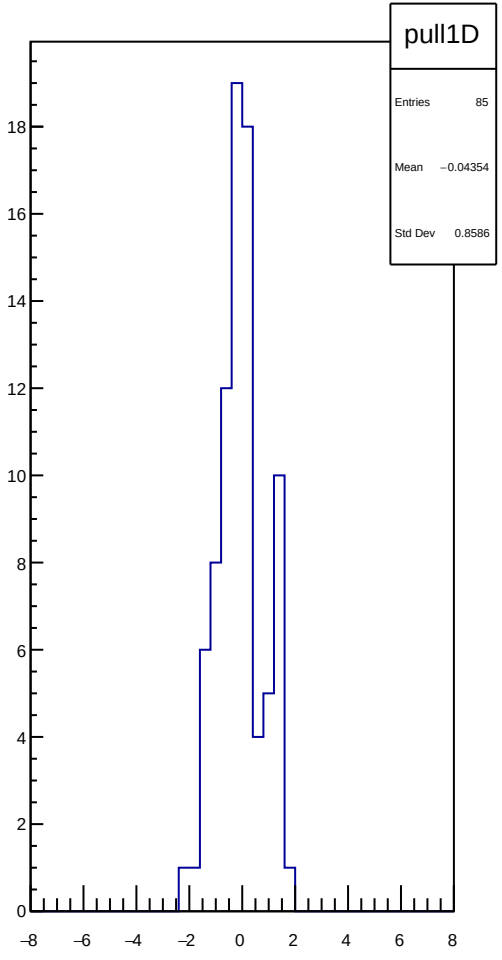

pull1D
Entries 85
Mean 0.02333
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

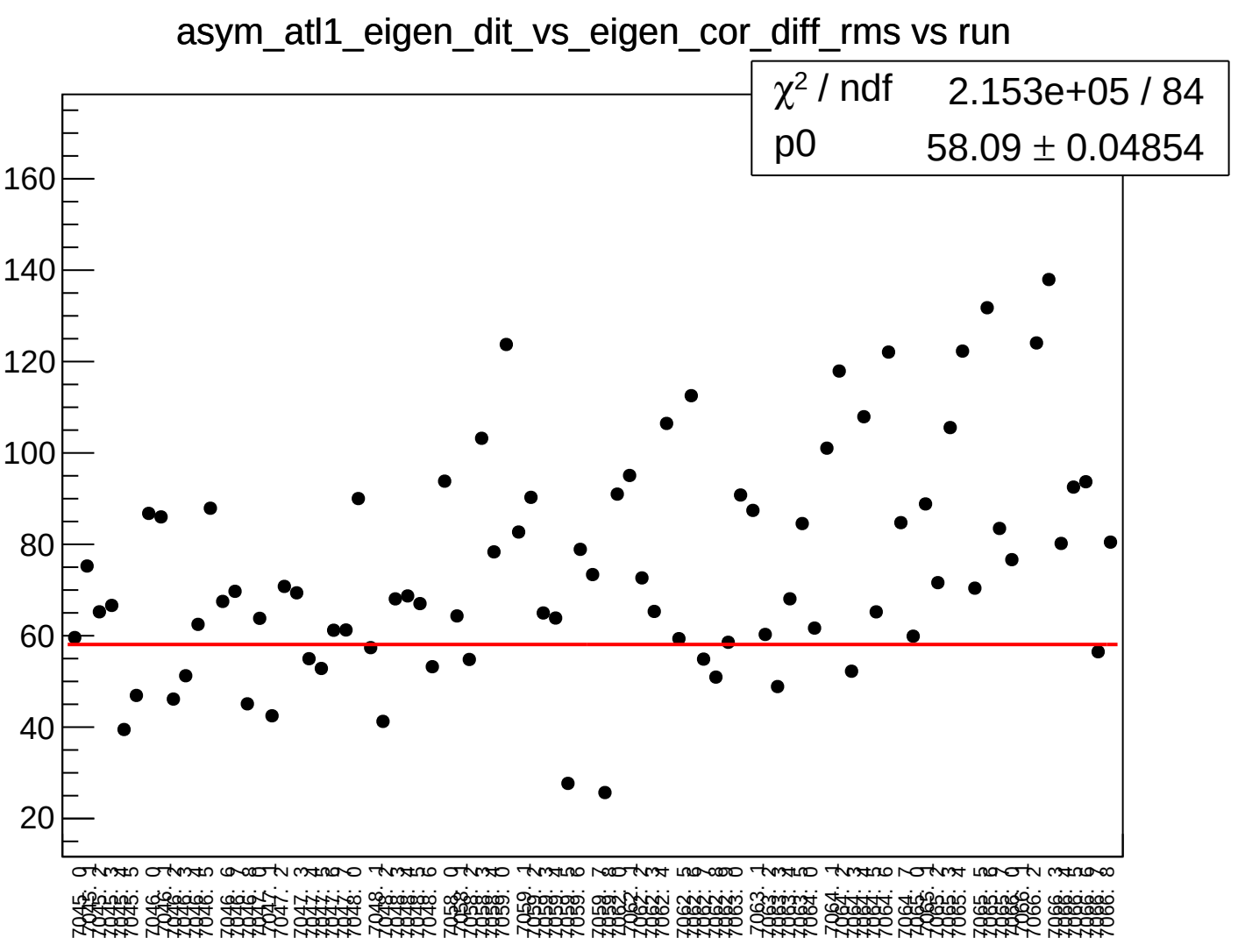

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.396e+05 / 84
p0 0.002164 ± 1.763e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

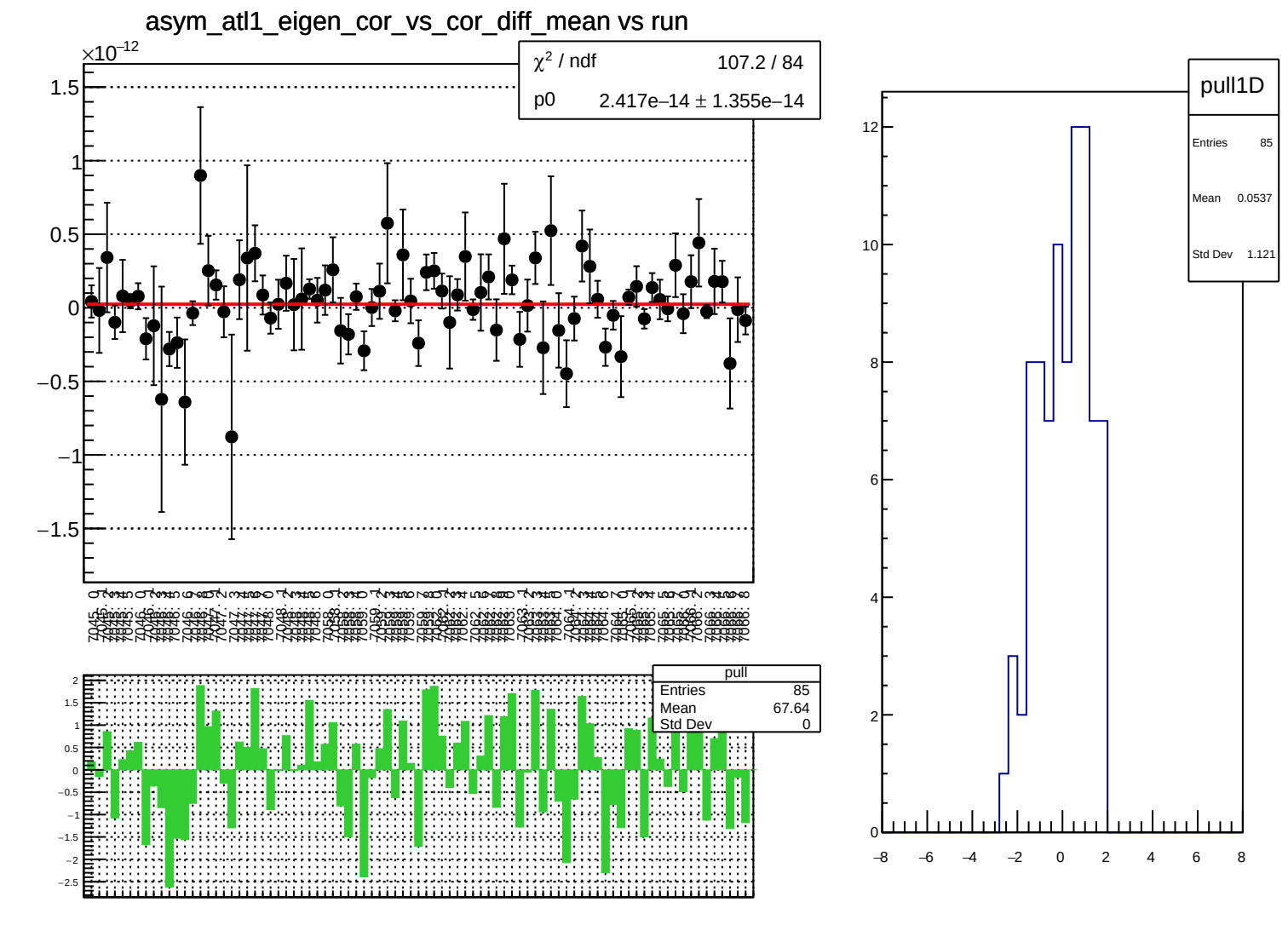

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.82 / 84
p0 0.01865 ± 0.06865
pull
Entries 85
Mean 39.98
Std Dev 50.72
pull1D
Entries 85
Mean −0.04354
Std Dev 0.8586


asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 84
p0 58.09 ± 0.04854
160
140
120
100
80
60
40
20

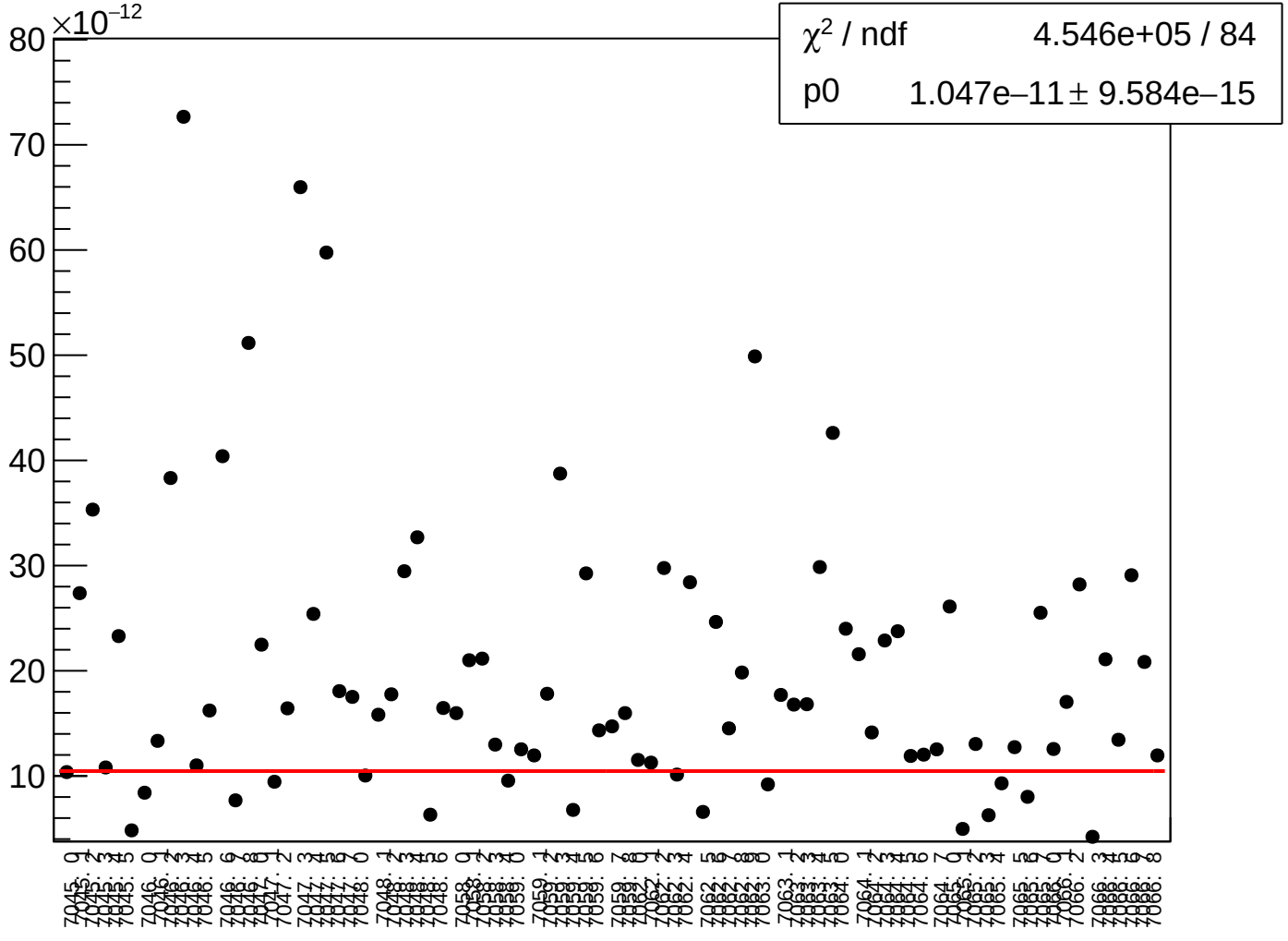

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.82 / 84
p0 0.01865 ± 0.06865
pull
Entries 85
Mean 39.98
Std Dev 50.72

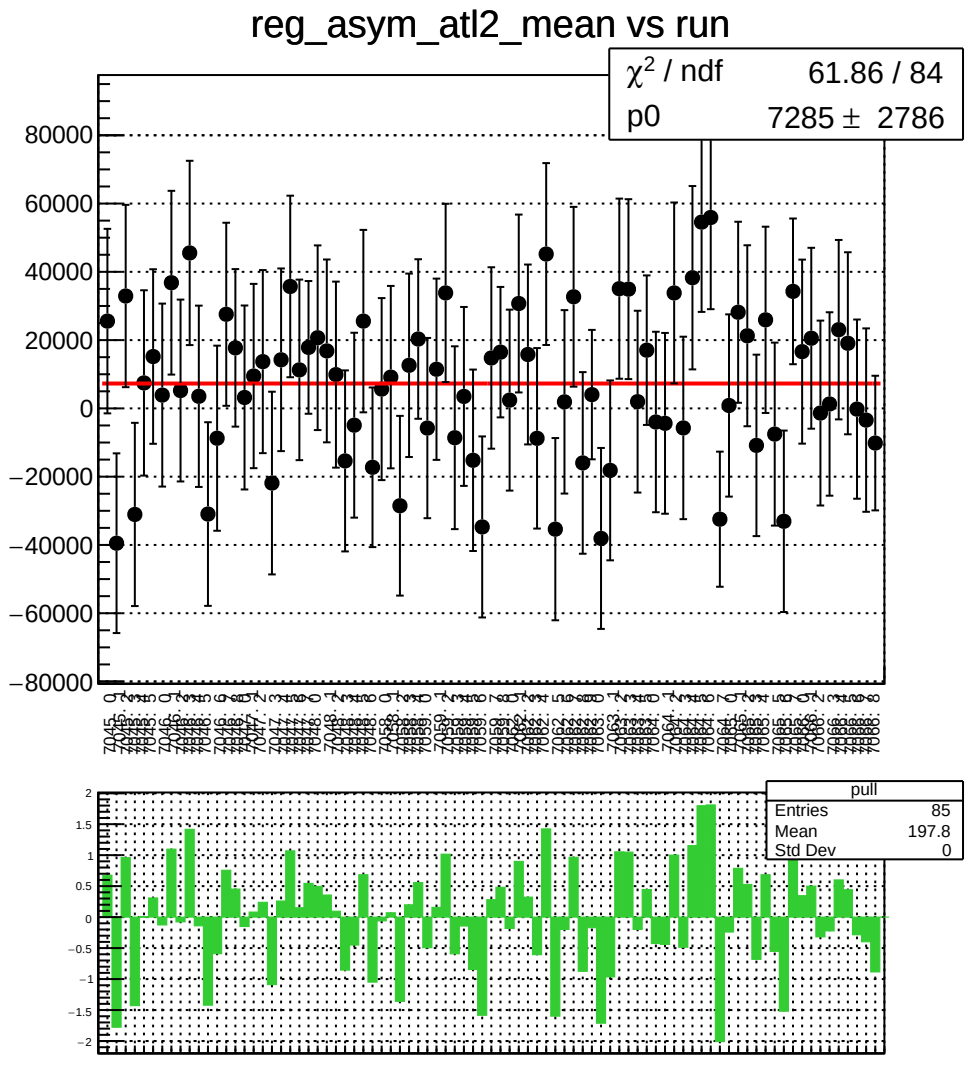

pull1D
Entries 85
Mean −0.04354
Std Dev 0.8586

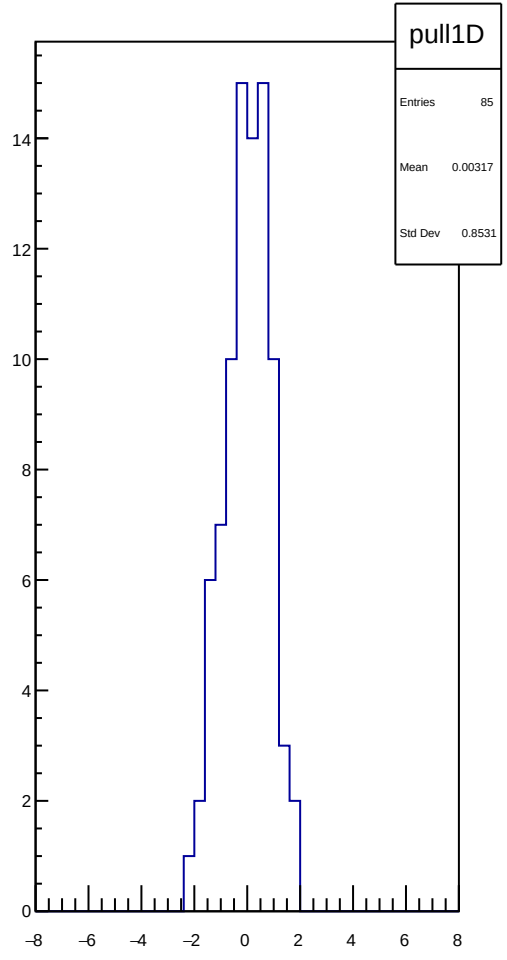

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 84
p0 58.09 ± 0.04854
160
140
120
100
80
60
40
20

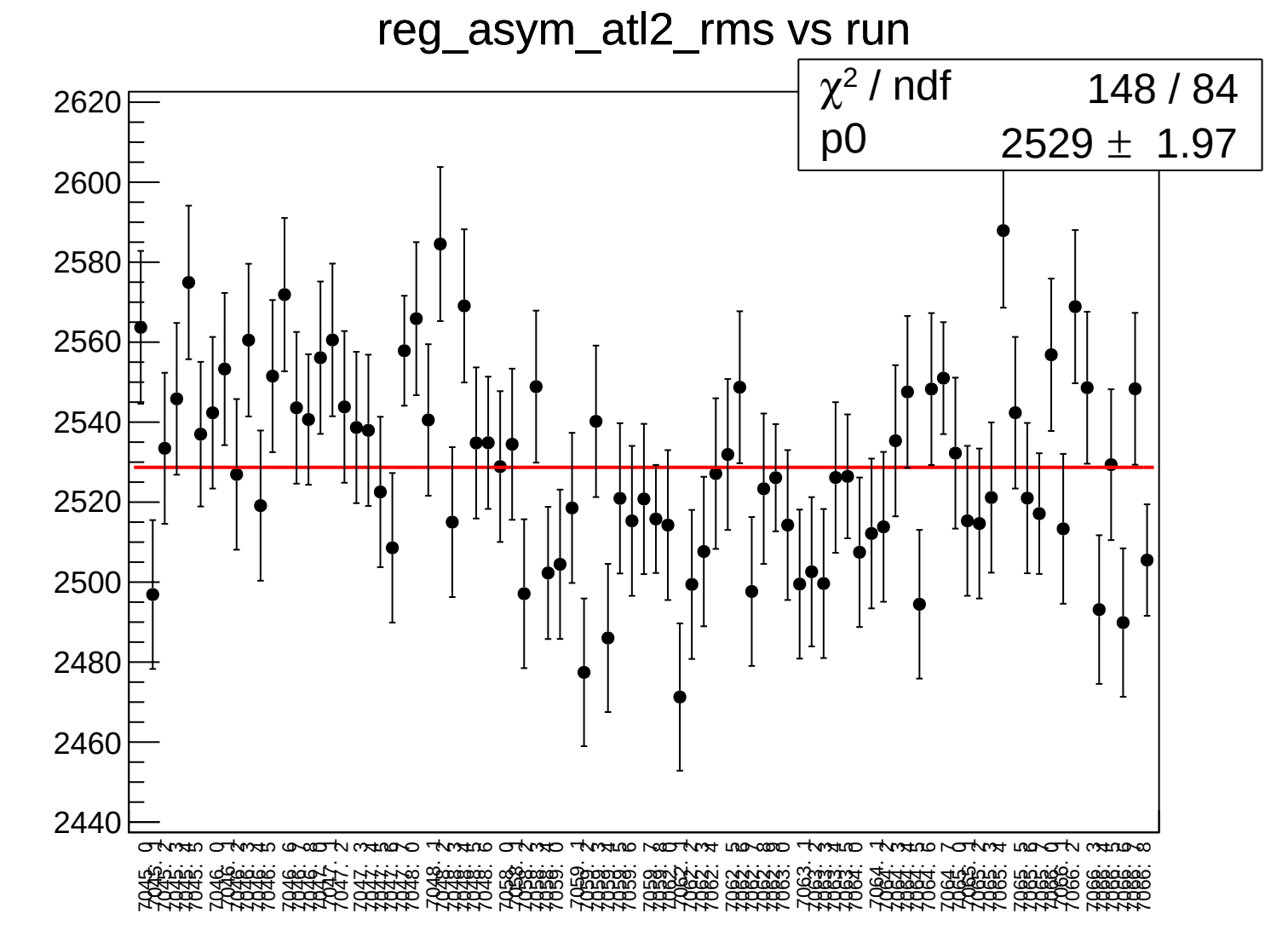

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.2 / 84
p0 2.417e−14 ± 1.355e−14
pull
Entries 85
Mean 67.64
Std Dev 0
pull1D
Entries 85
Mean 0.0537
Std Dev 1.121

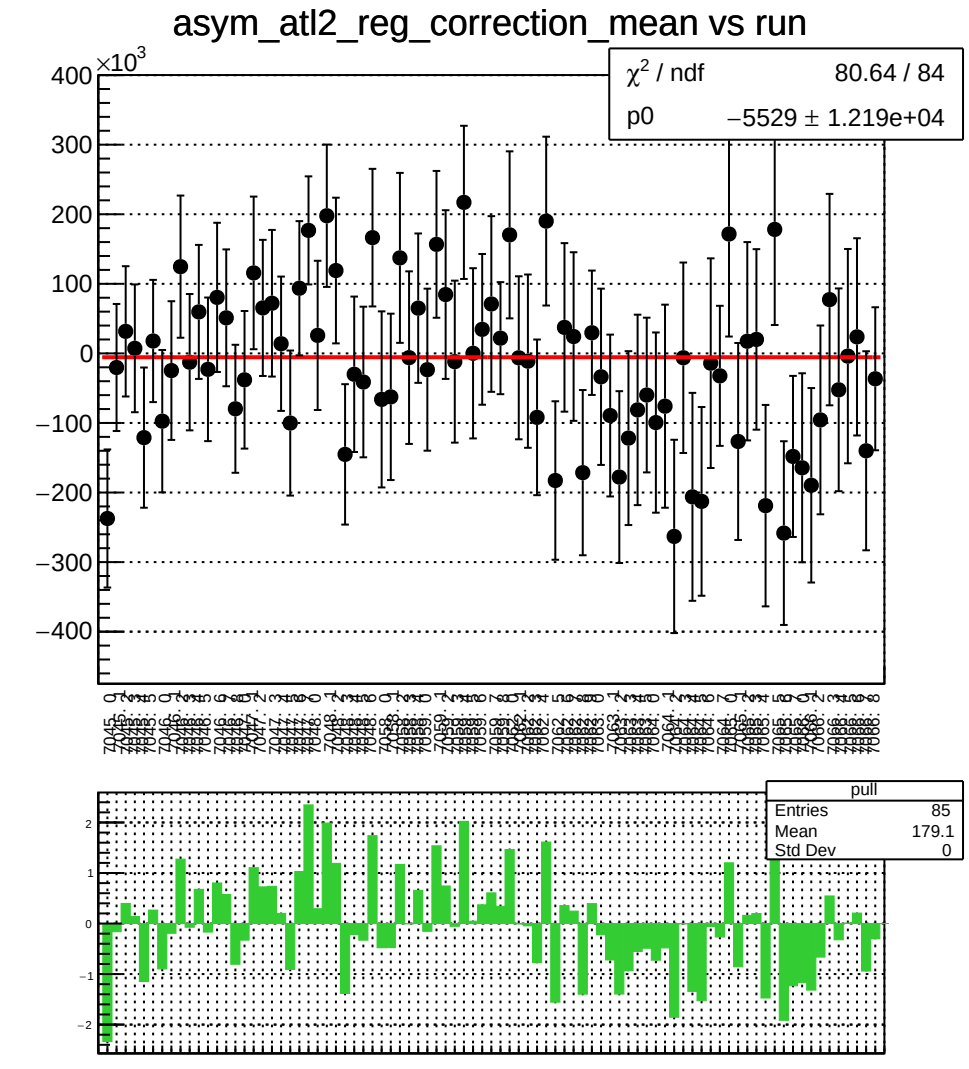
asym_atl1_eigen_cor_vs_cor_diff_rms vs run

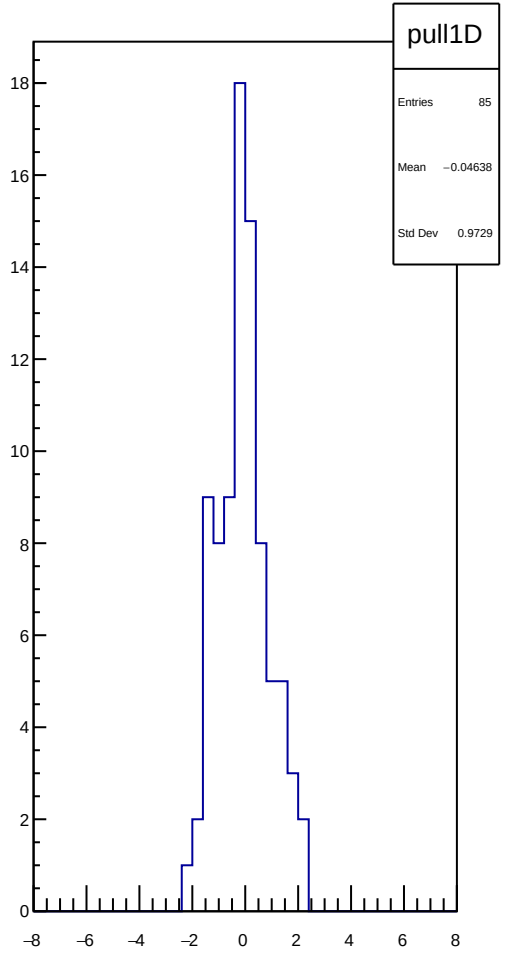


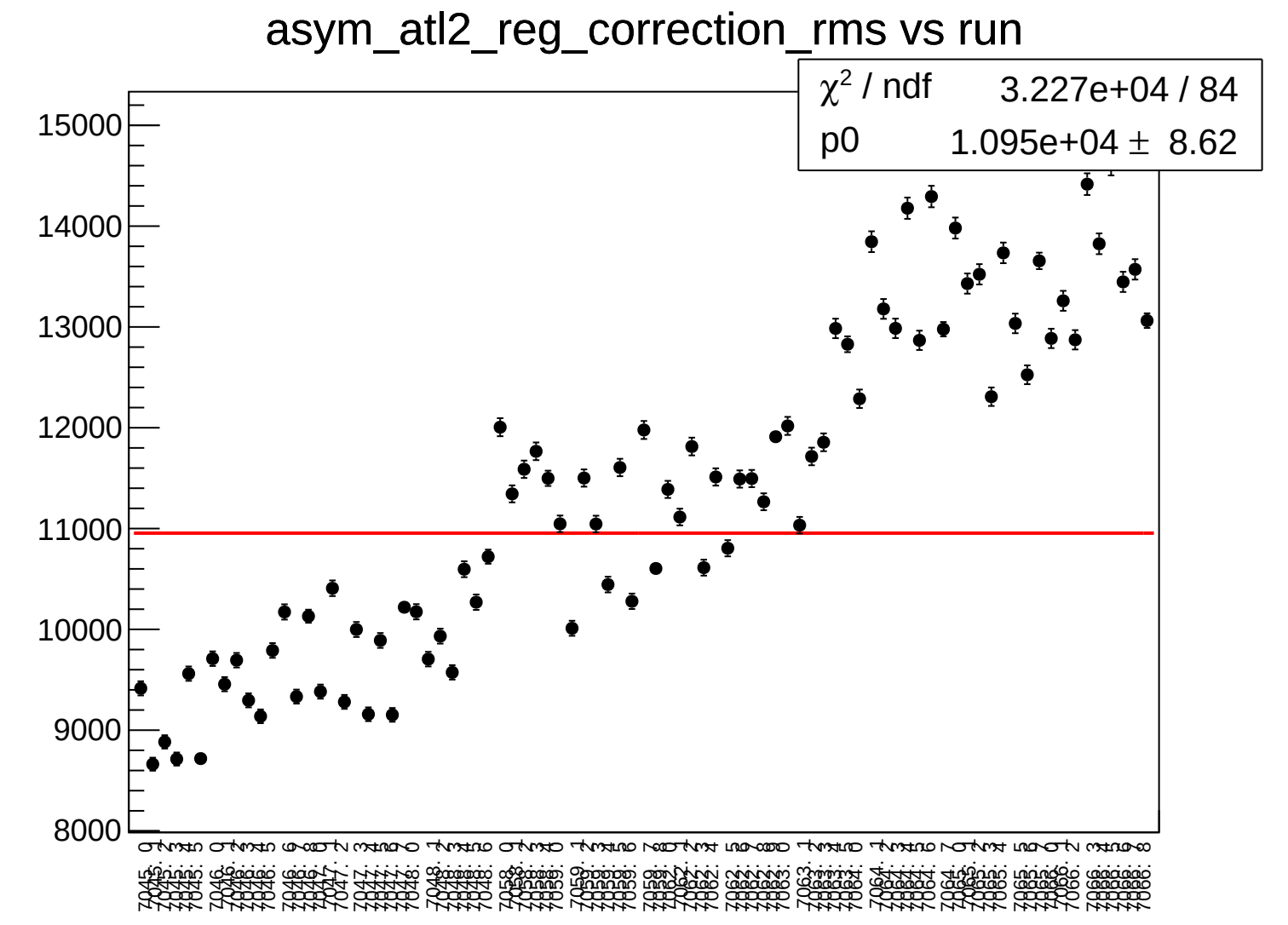

reg_asym_atl2_mean vs run
χ² / ndf 61.86 / 84
p0 7285 ± 2786
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 197.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

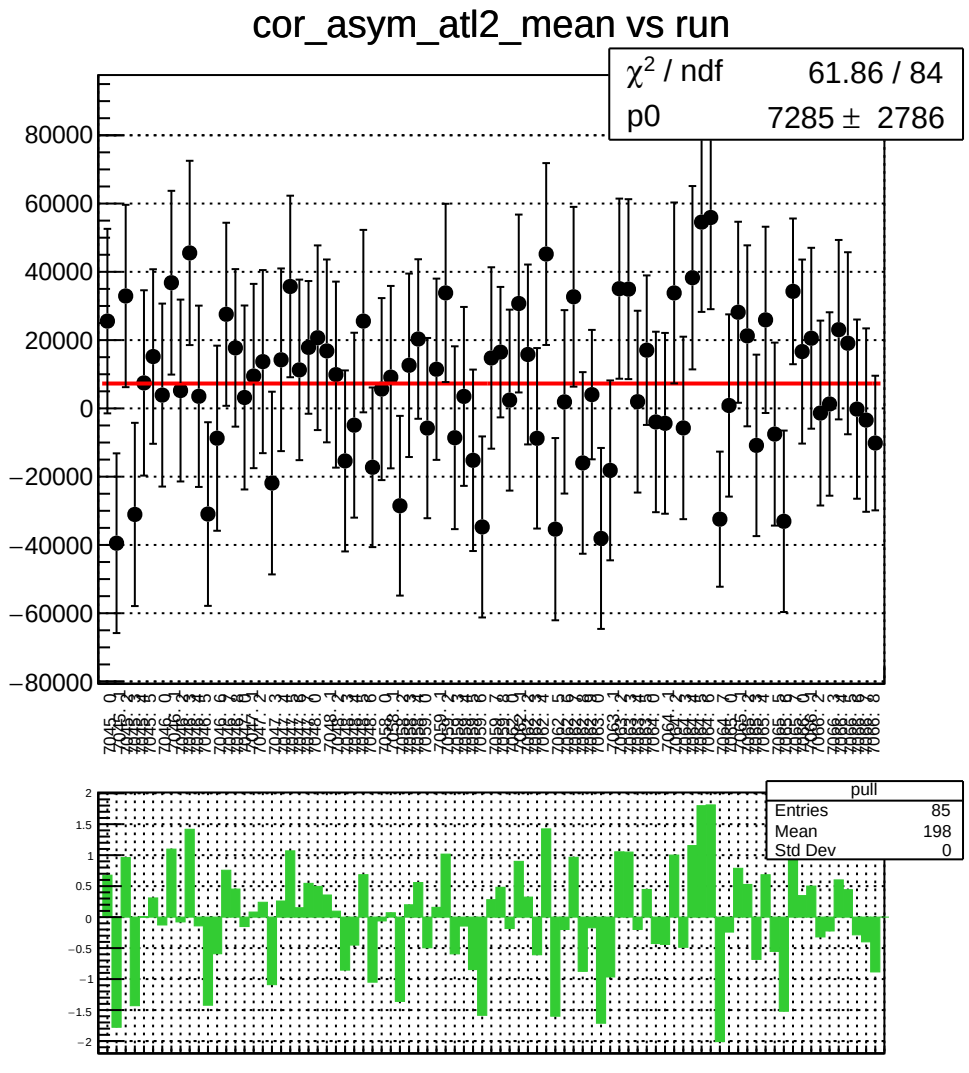

pull1D
Entries 85
Mean 0.00317
Std Dev 0.8531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

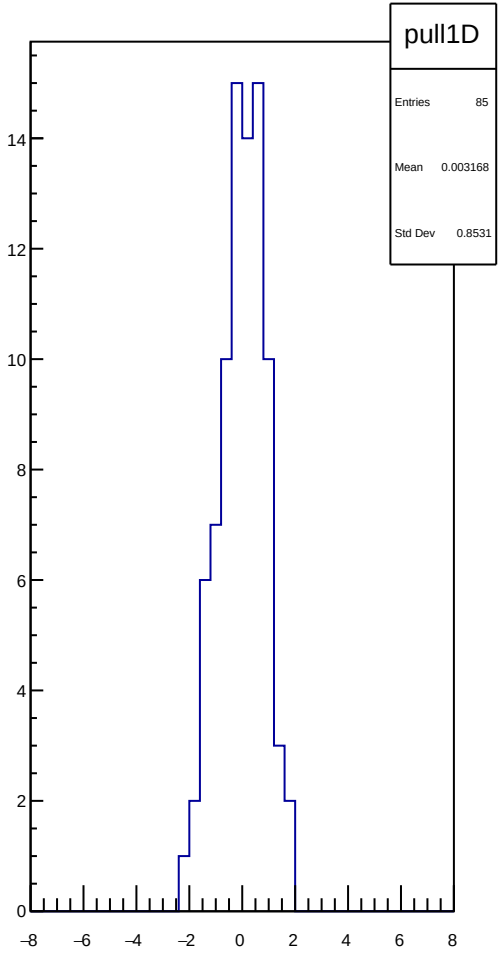

reg_asym_atl2_rms vs run
χ² / ndf 148 / 84
p0 2529 ± 1.97
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

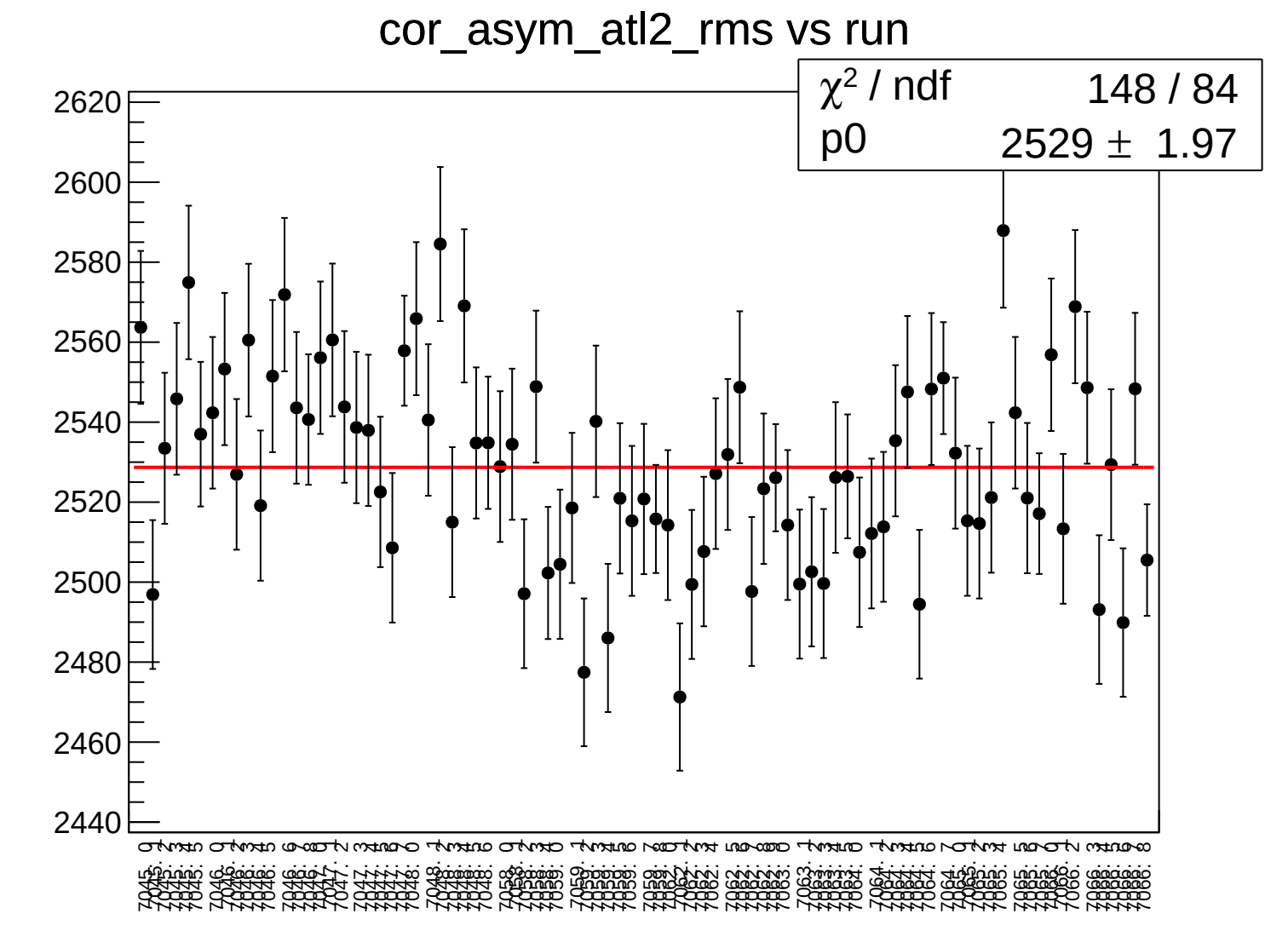

asym_atl2_reg_correction_mean vs run
χ² / ndf 80.64 / 84
p0 −5529 ± 1.219e+04
×10³
pull
Entries 85
Mean 179.1
Std Dev 0

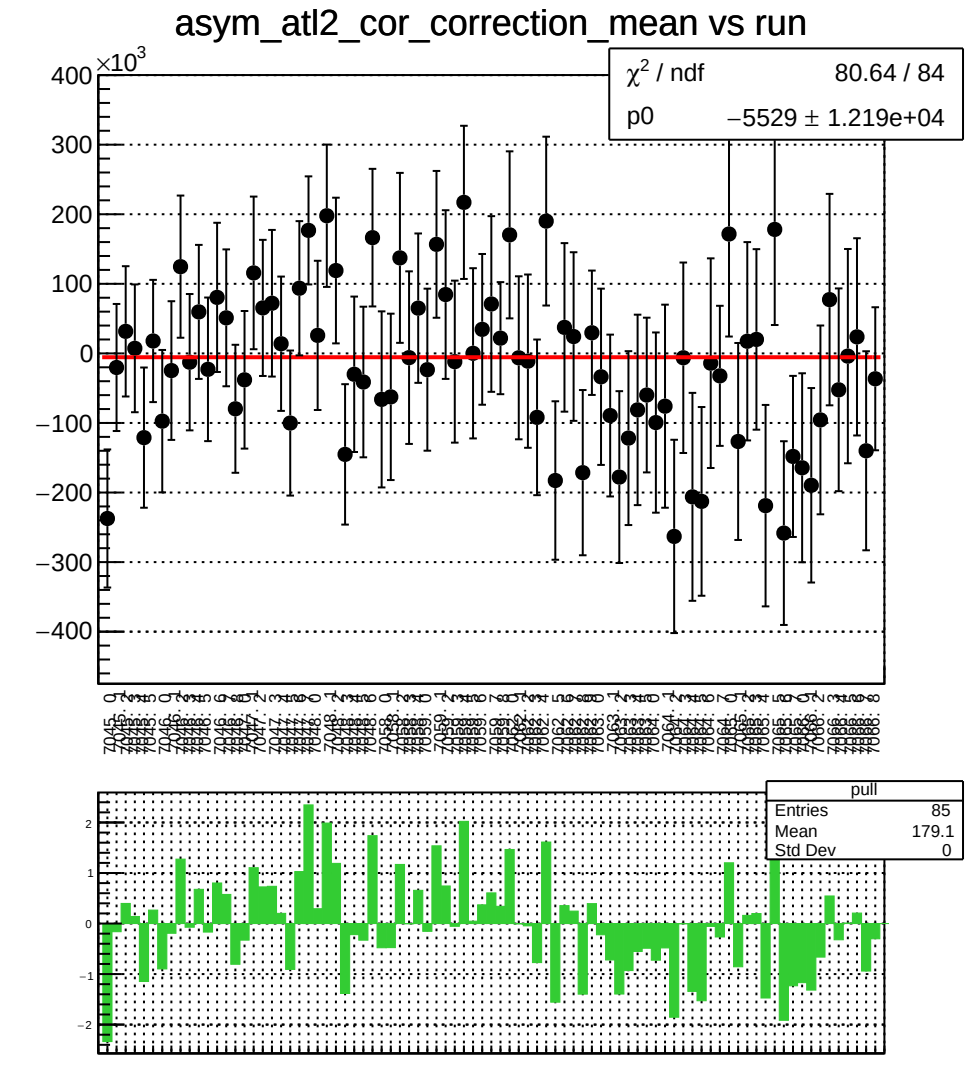

pull1D
Entries 85
Mean −0.04638
Std Dev 0.9729

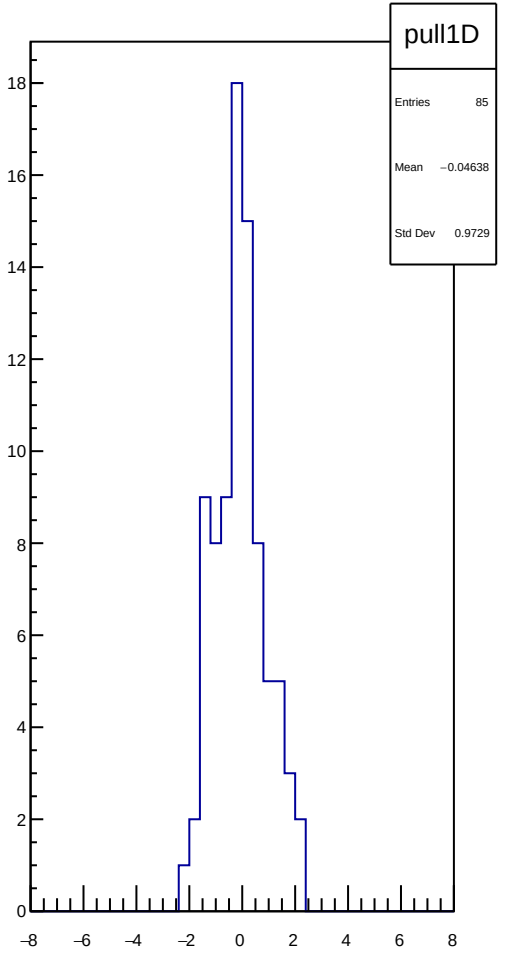

asym_atl2_reg_correction_rms vs run
χ² / ndf 3.227e+04 / 84
p0 1.095e+04 ± 8.62
15000
14000
13000
12000
11000
10000
9000
8000

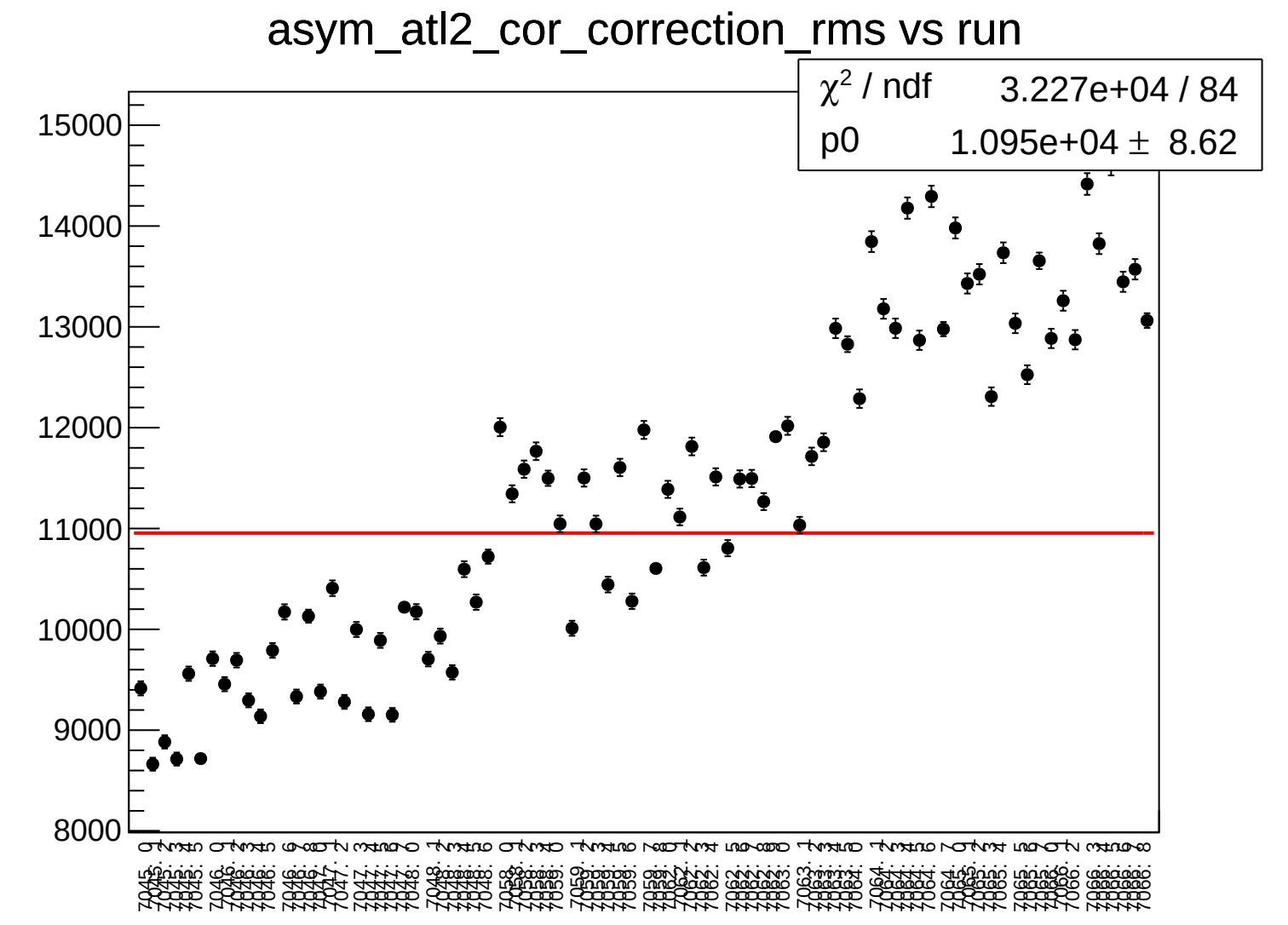

cor_asym_atl2_mean vs run
χ² / ndf 61.86 / 84
p0 7285 ± 2786
pull
Entries 85
Mean 198
Std Dev 0

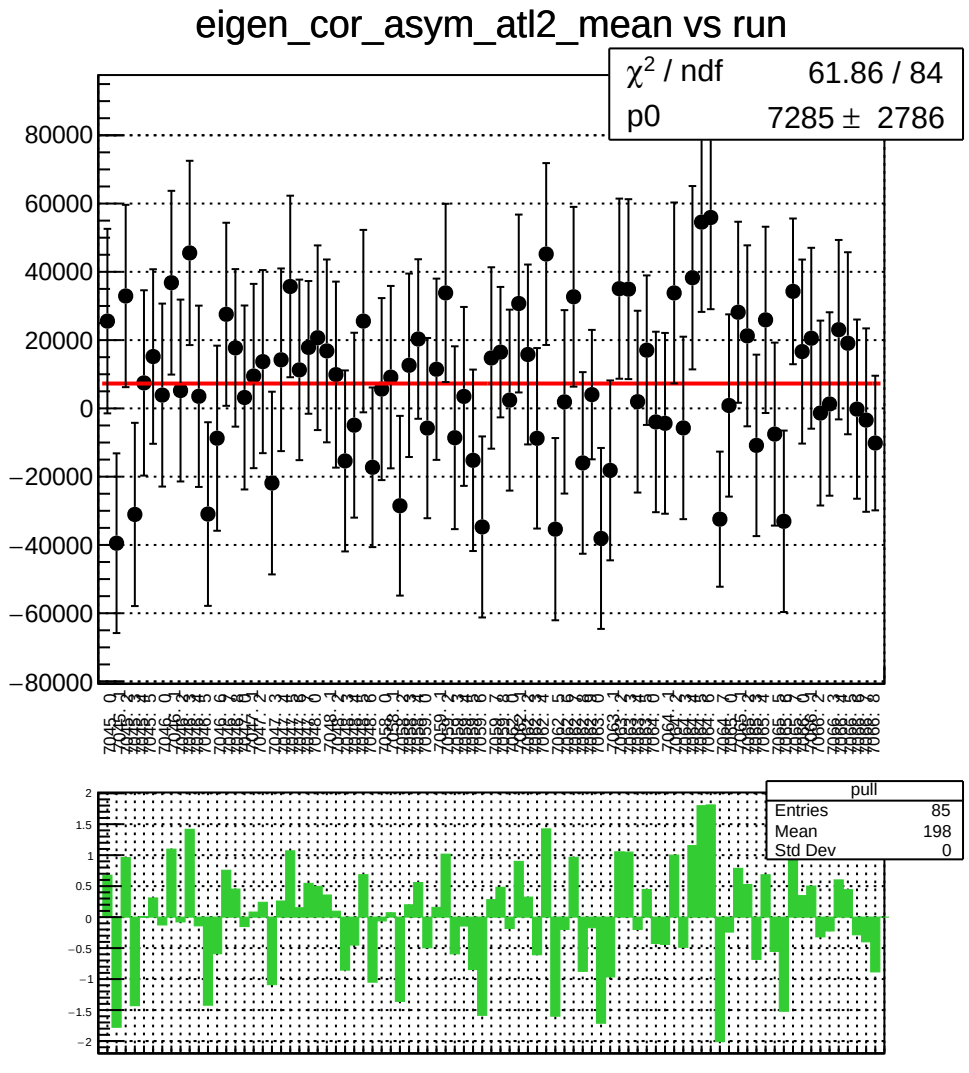

pull1D
Entries 85
Mean 0.003168
Std Dev 0.8531

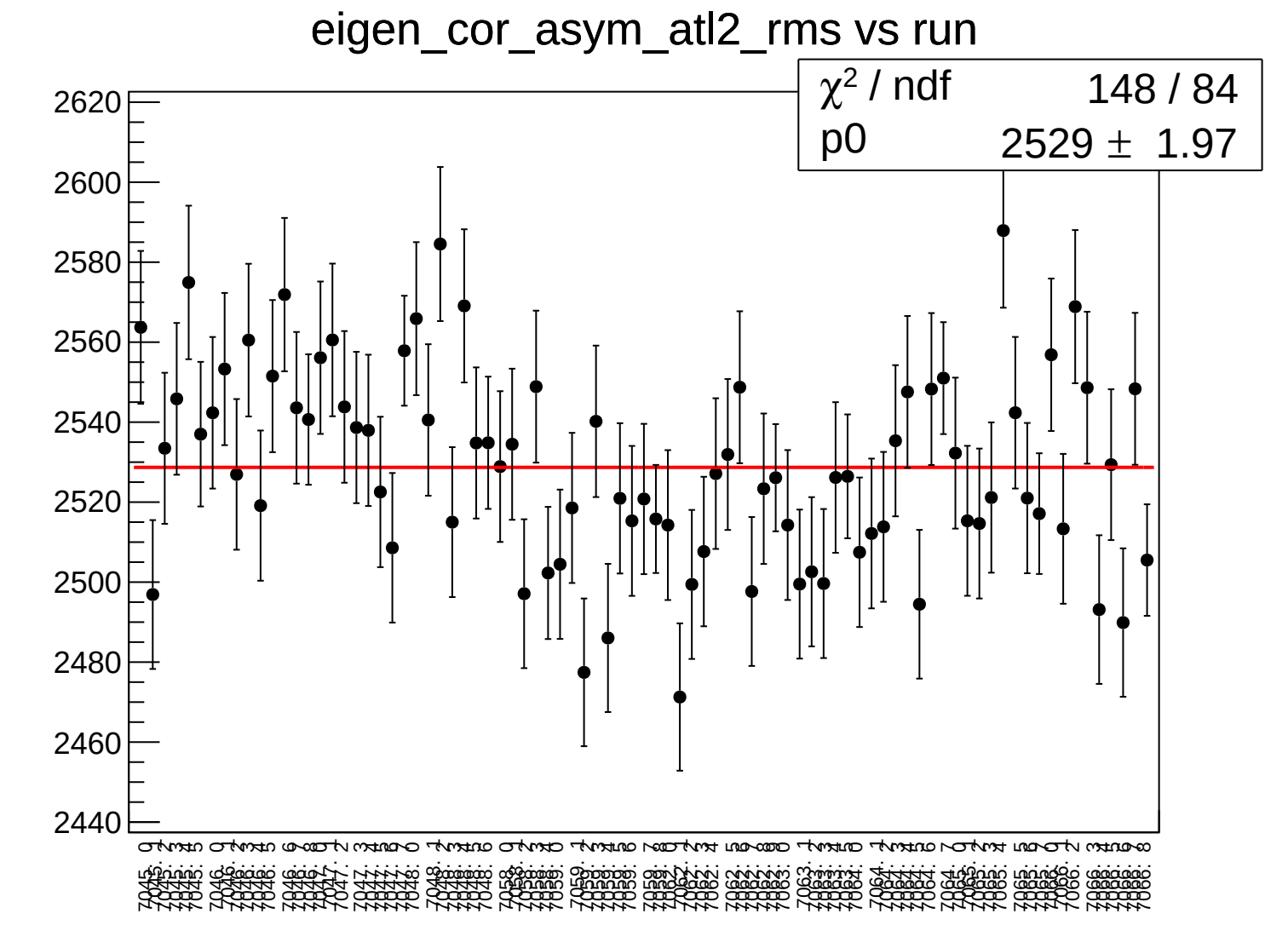

cor_asym_atl2_rms vs run
χ² / ndf 148 / 84
p0 2529 ± 1.97
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

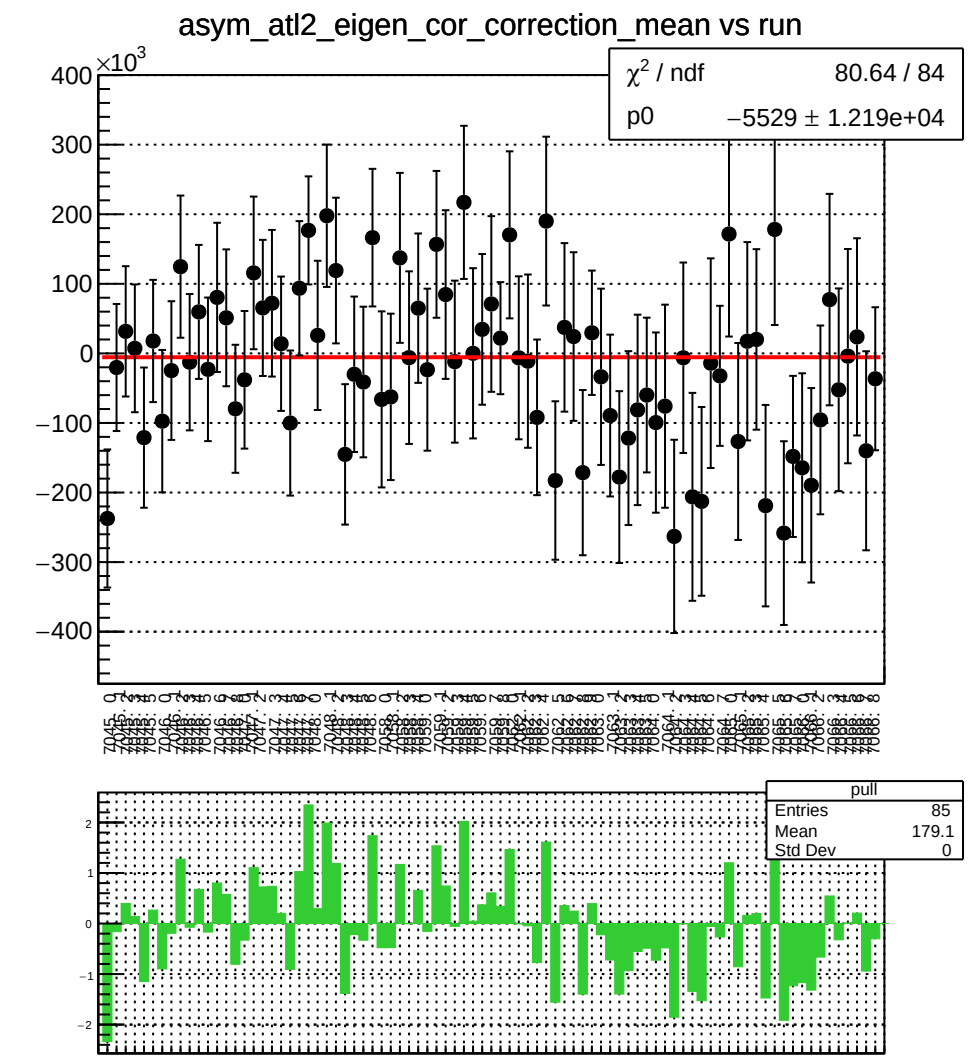

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 80.64 / 84
p0 −5529 ± 1.219e+04
pull
Entries 85
Mean 179.1
Std Dev 0

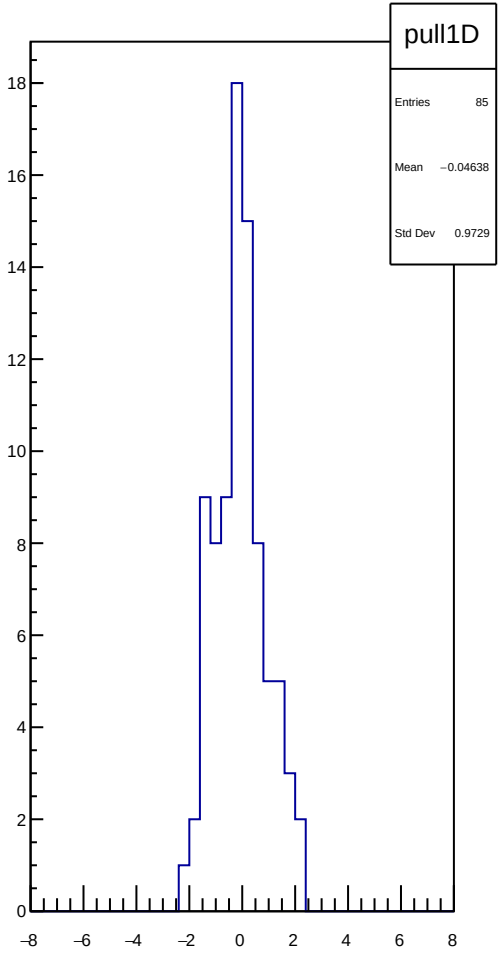

pull1D
Entries 85
Mean −0.04638
Std Dev 0.9729

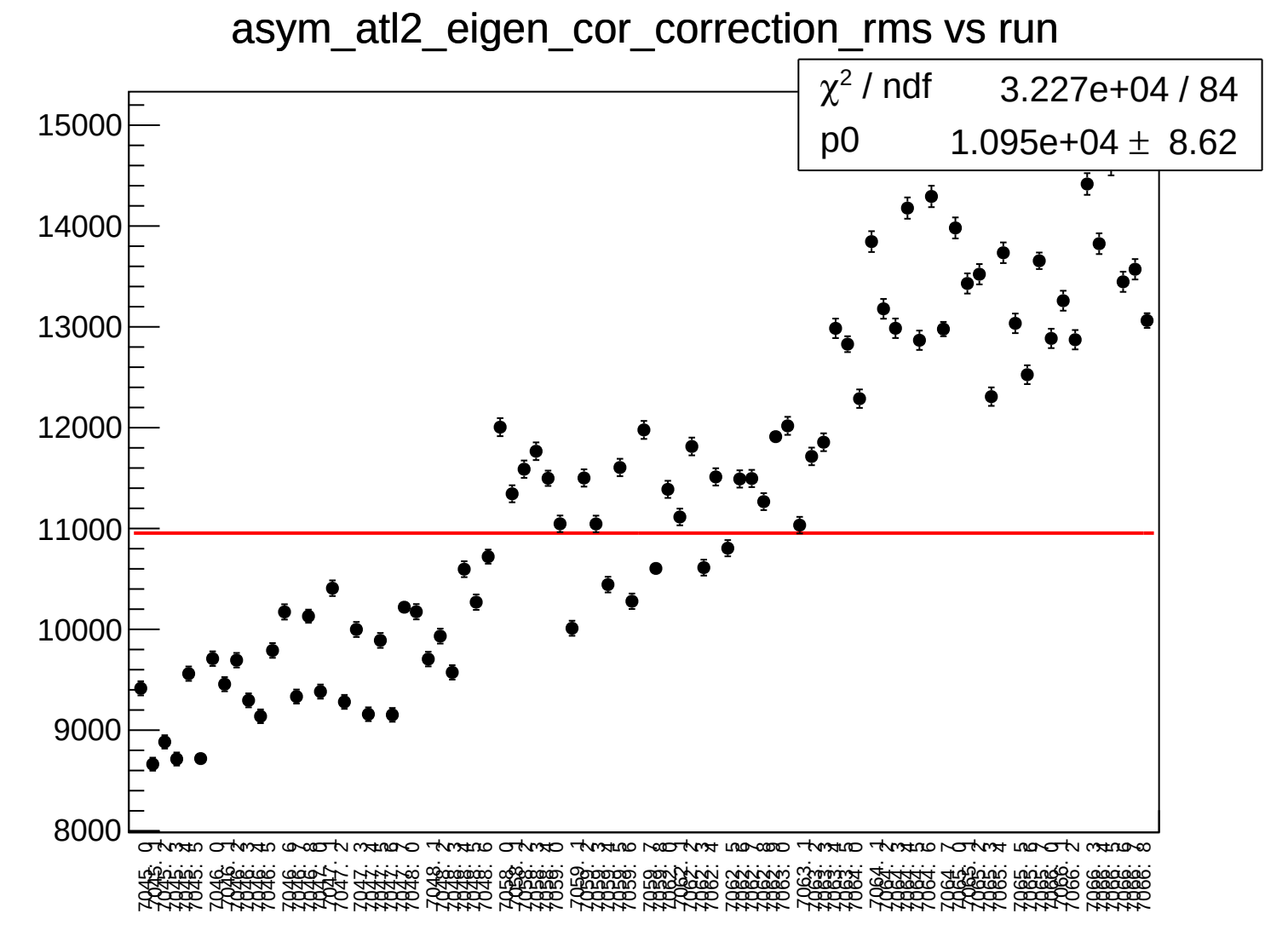

asym_atl2_cor_correction_rms vs run
χ² / ndf 3.227e+04 / 84
p0 1.095e+04 ± 8.62
15000
14000
13000
12000
11000
10000
9000
8000

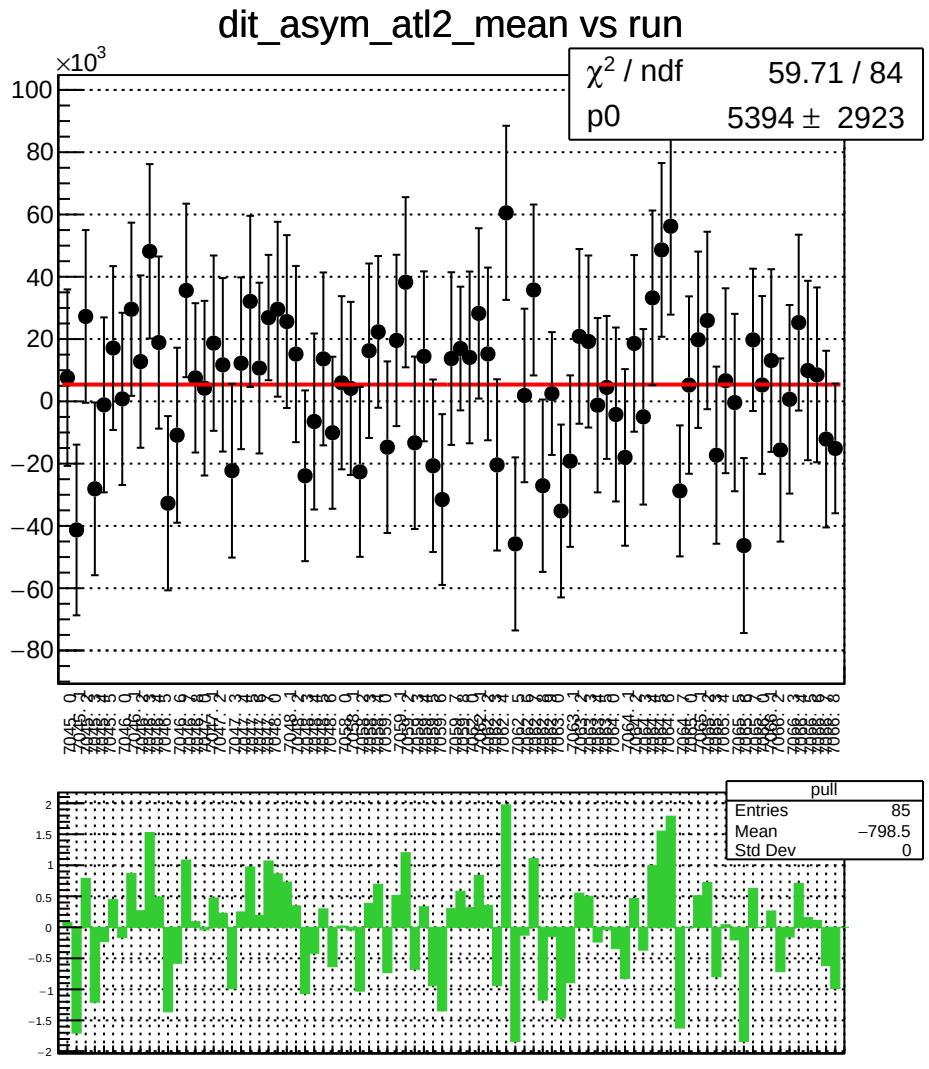

eigen_cor_asym_atl2_mean vs run
χ² / ndf 61.86 / 84
p0 7285 ± 2786
pull
Entries 85
Mean 198
Std Dev 0
pull1D
Entries 85
Mean 0.003168
Std Dev 0.8531

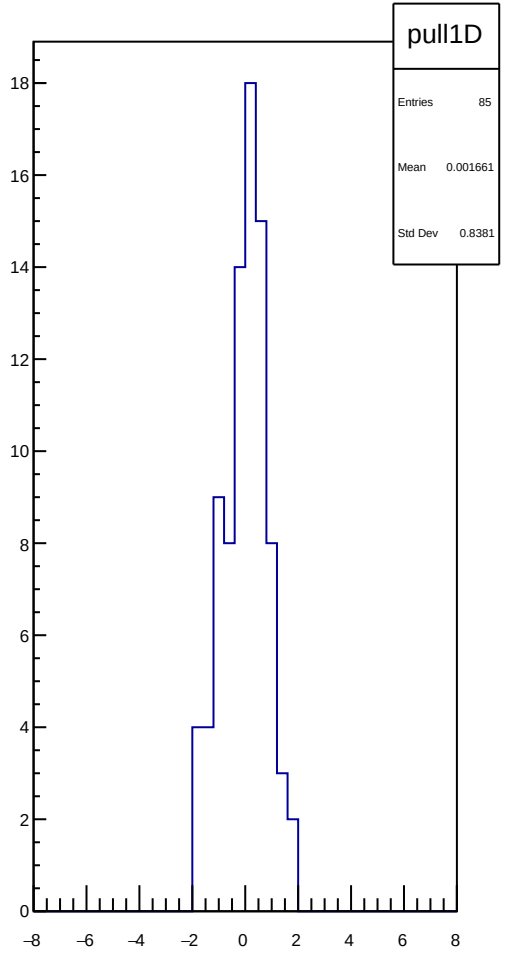

eigen_cor_asym_atl2_rms vs run
χ² / ndf 148 / 84
p0 2529 ± 1.97
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

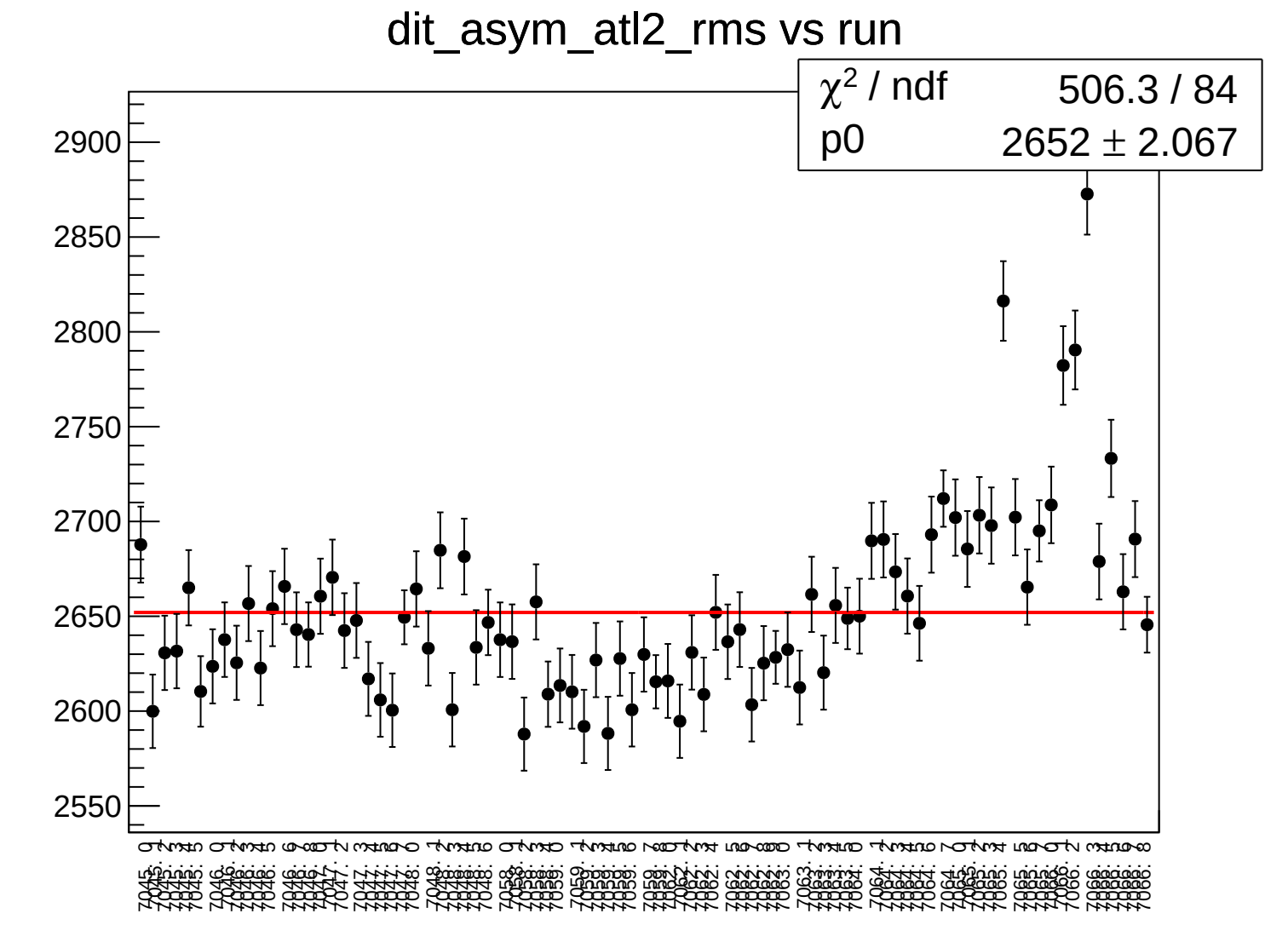

asym_atl2_eigen_cor_correction_mean vs run
χ² / ndf 80.64 / 84
p0 −5529 ± 1.219e+04
×10³
pull
Entries 85
Mean 179.1
Std Dev 0

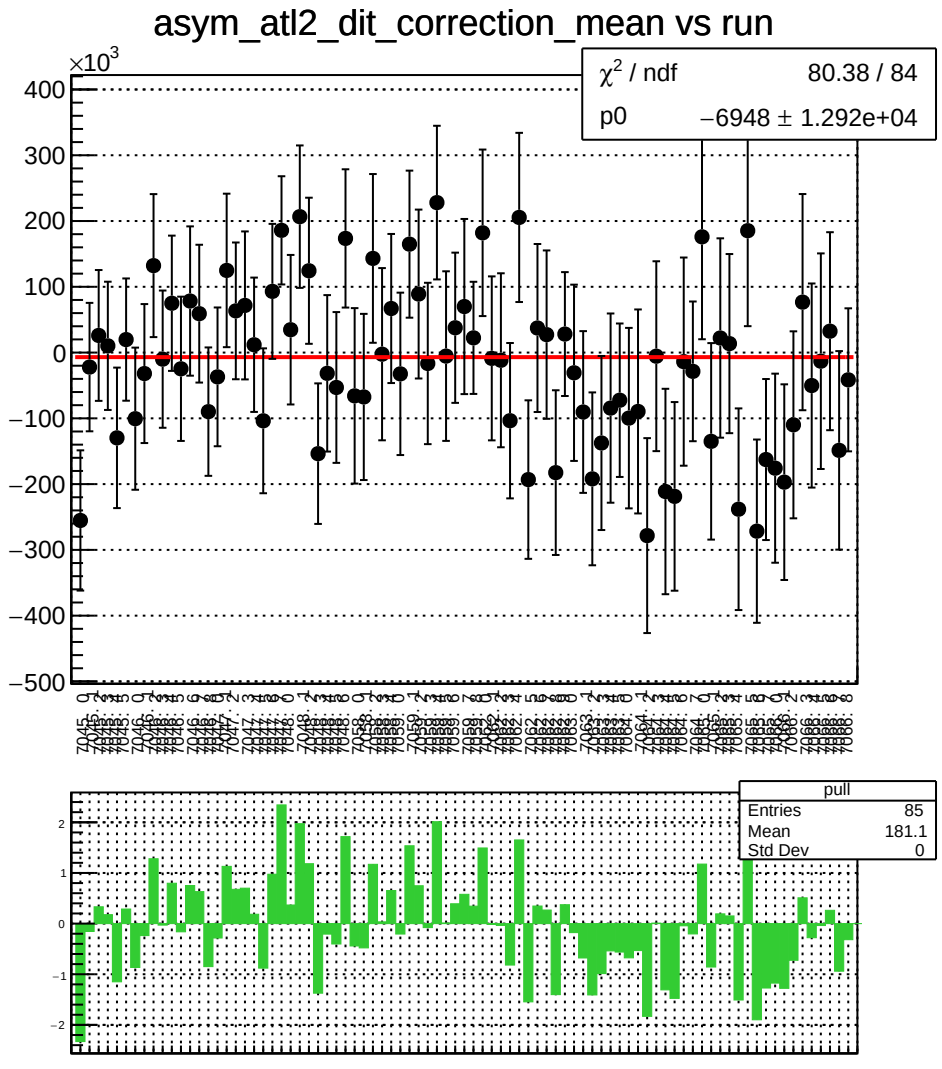

pull1D
Entries 85
Mean −0.04638
Std Dev 0.9729

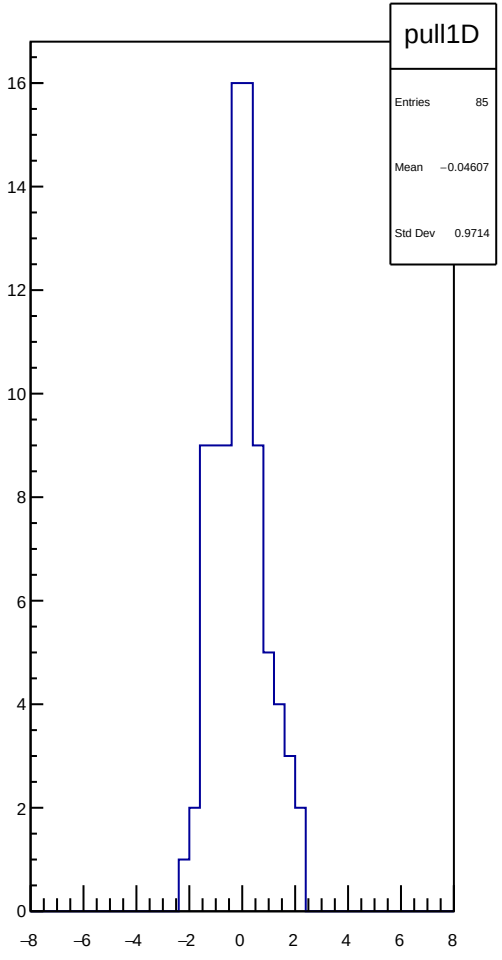

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3.227e+04 / 84
p0 1.095e+04 ± 8.62
15000
14000
13000
12000
11000
10000
9000
8000

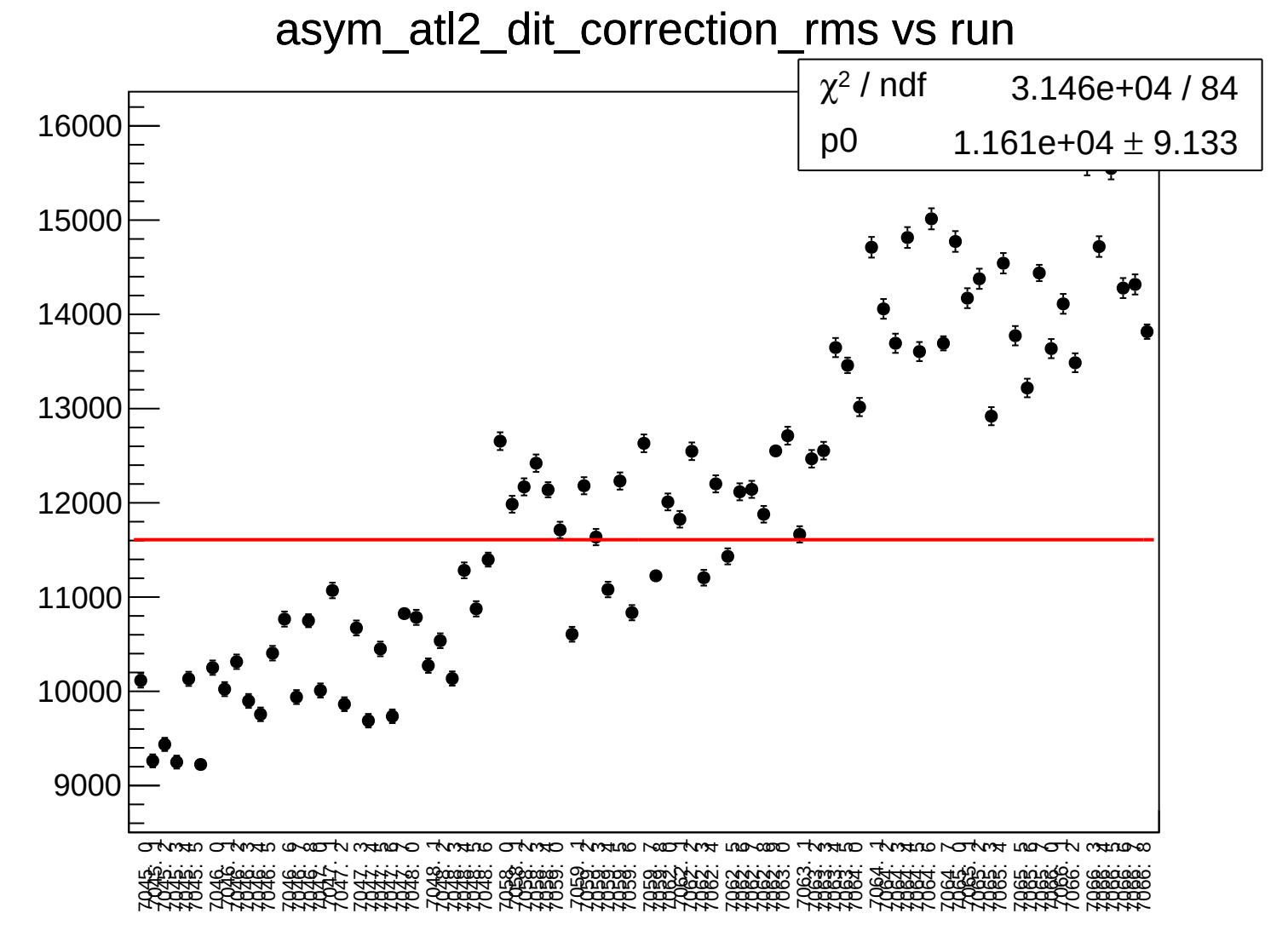

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 59.71 / 84
p0 5394 ± 2923
pull
Entries 85
Mean −798.5
Std Dev 0

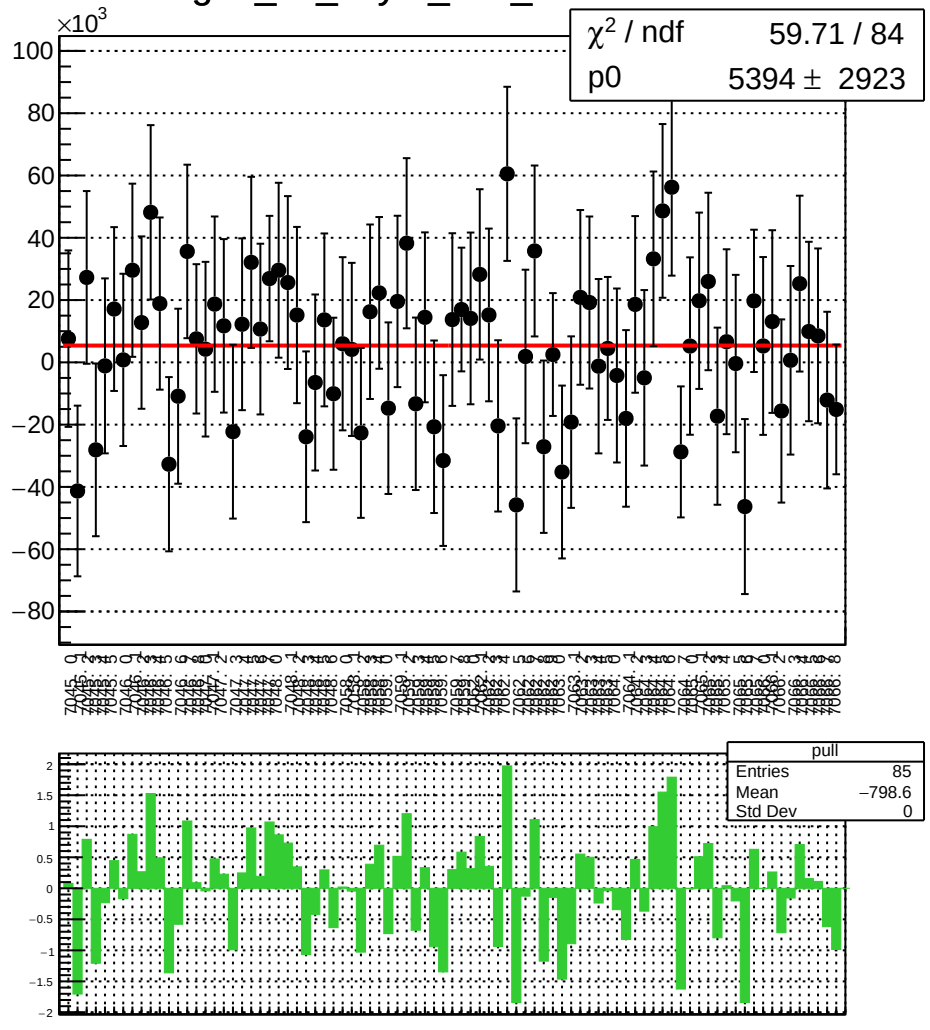

pull1D
Entries 85
Mean 0.001661
Std Dev 0.8381

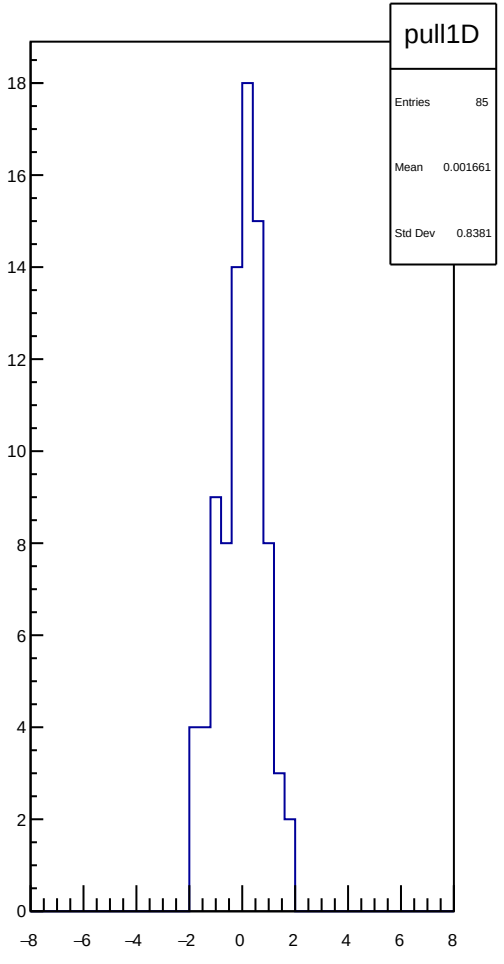

dit_asym_atl2_rms vs run
χ^2 / ndf 506.3 / 84
p0 2652 ± 2.067
2900
2850
2800
2750
2700
2650
2600
2550

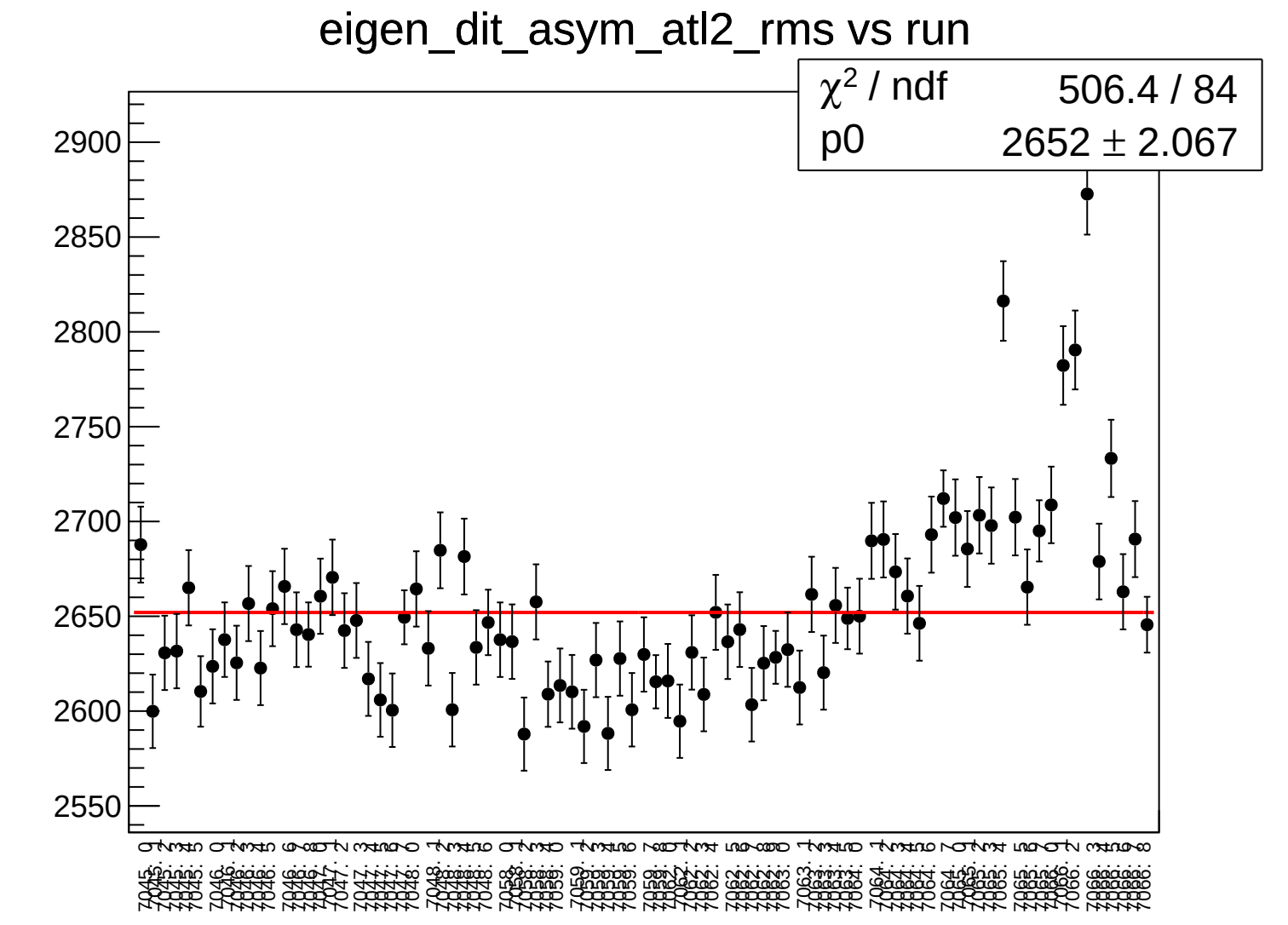

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 80.38 / 84
p0 −6948 ± 1.292e+04
pull
Entries 85
Mean 181.1
Std Dev 0

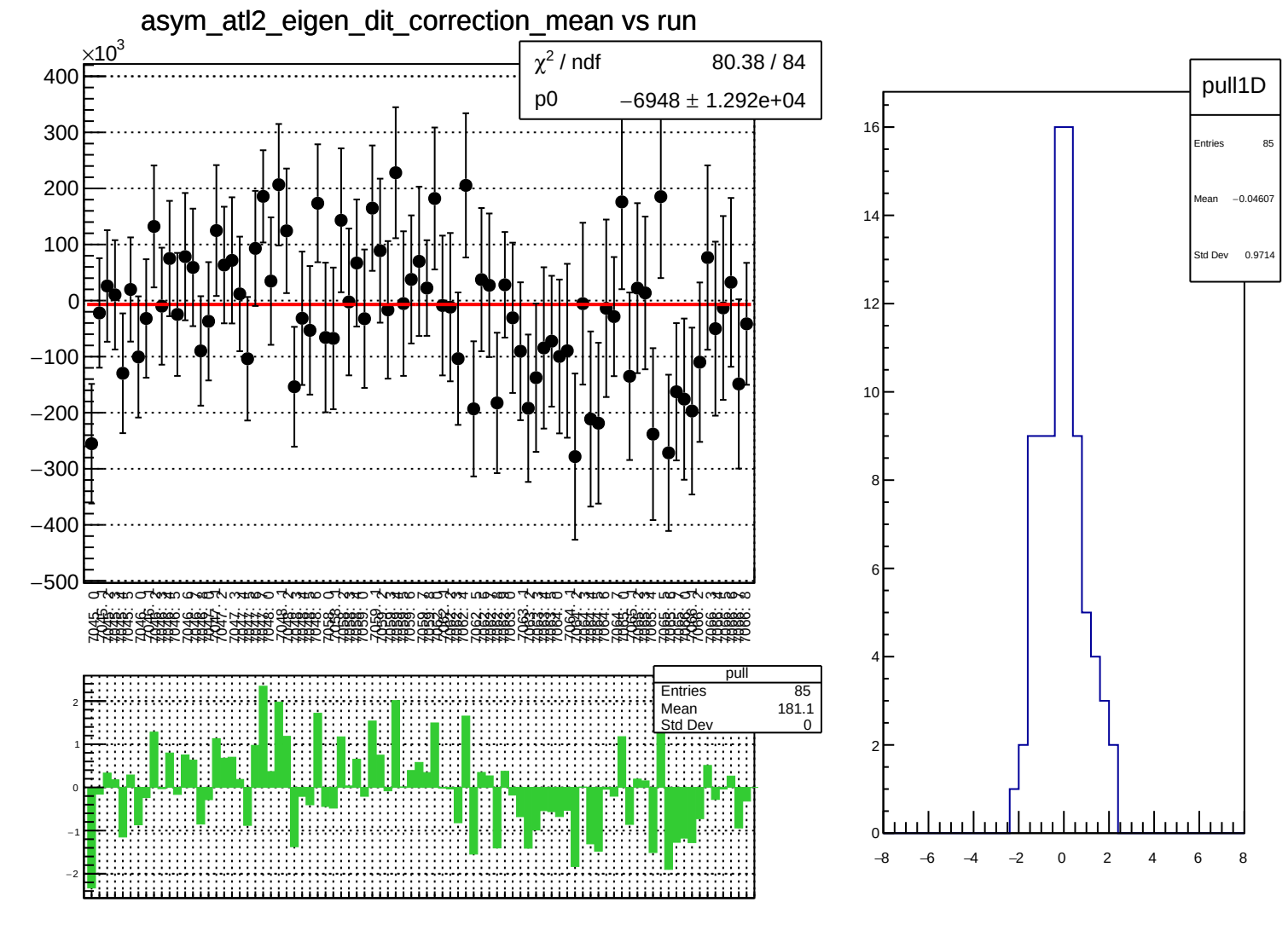

pull1D
Entries 85
Mean −0.04607
Std Dev 0.9714

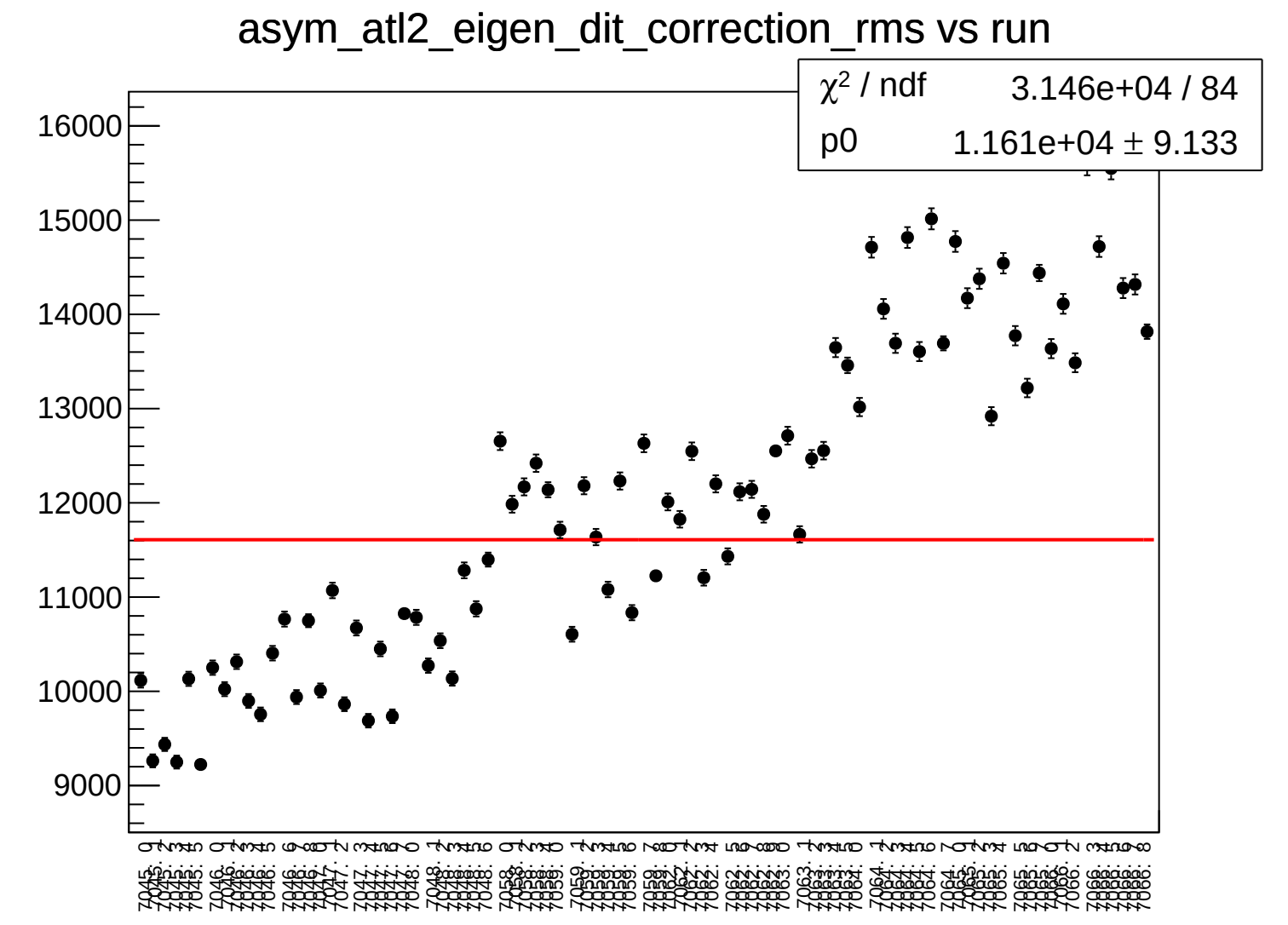

asym_atl2_dit_correction_rms vs run
χ² / ndf 3.146e+04 / 84
p0 1.161e+04 ± 9.133
16000
15000
14000
13000
12000
11000
10000
9000

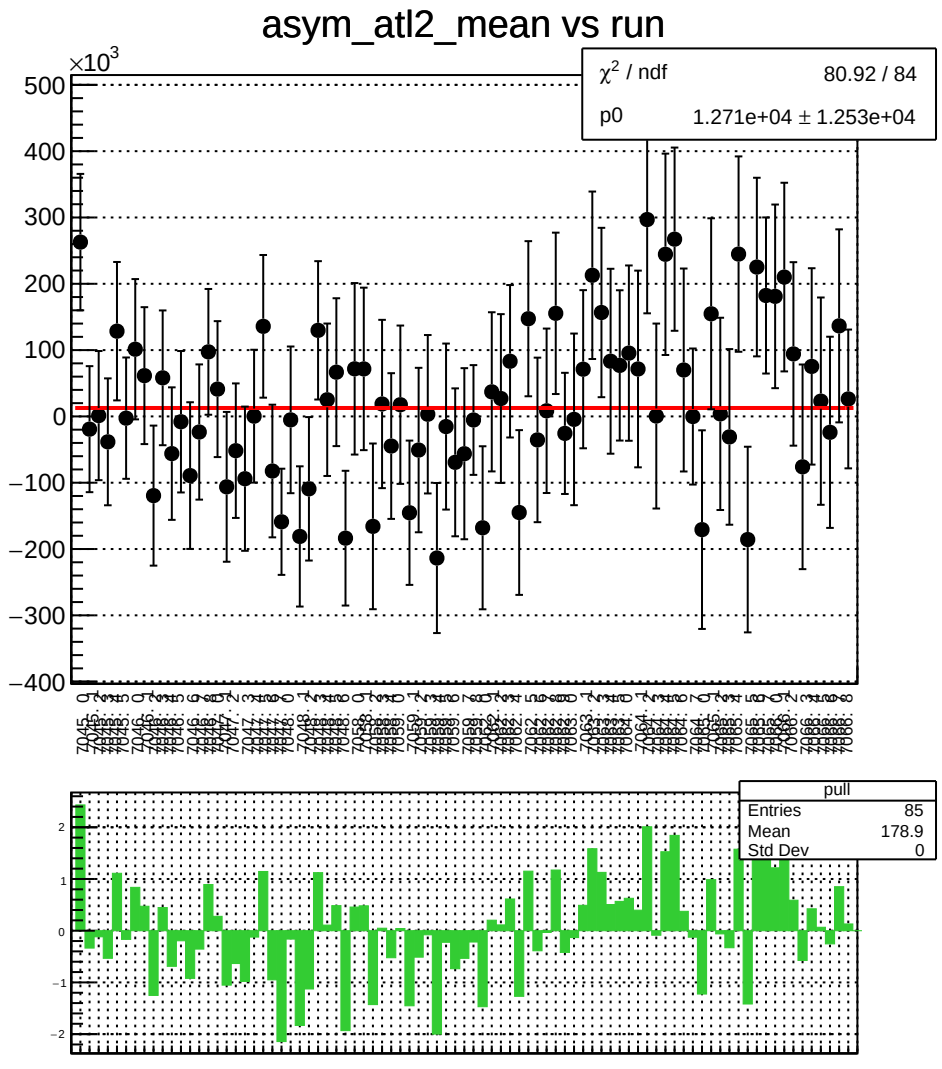

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 59.71 / 84
p0 5394 ± 2923
pull
Entries 85
Mean −798.6
Std Dev 0

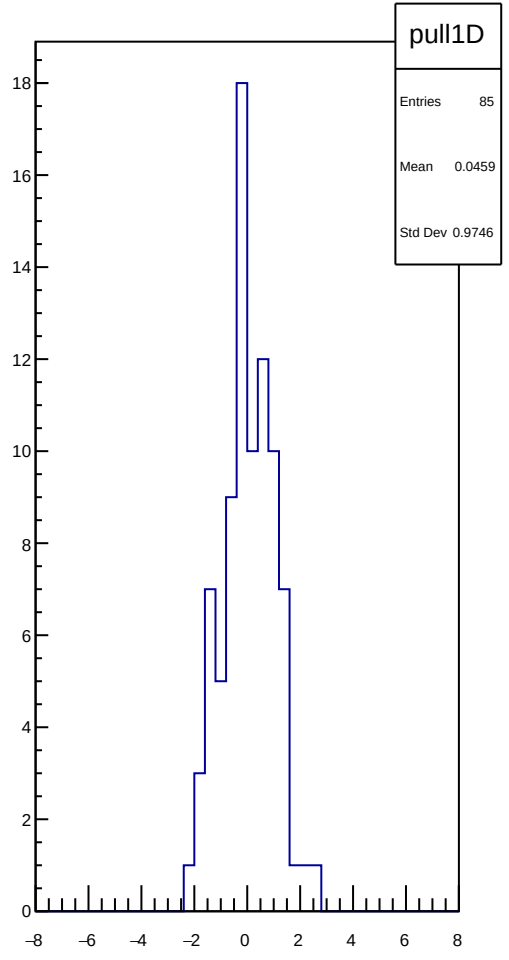

pull1D
Entries 85
Mean 0.001661
Std Dev 0.8381

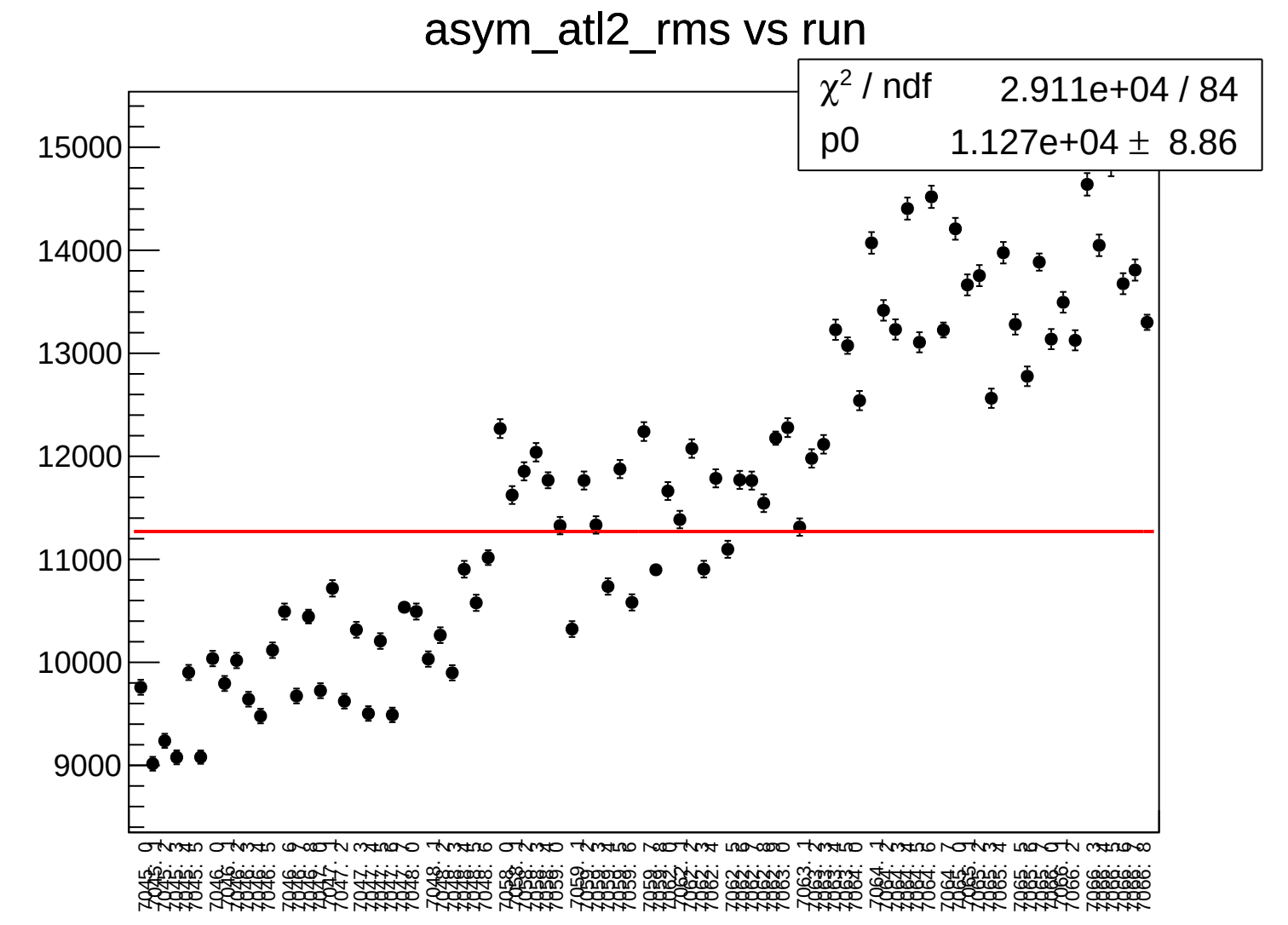

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 506.4 / 84
p0 2652 ± 2.067
2900
2850
2800
2750
2700
2650
2600
2550

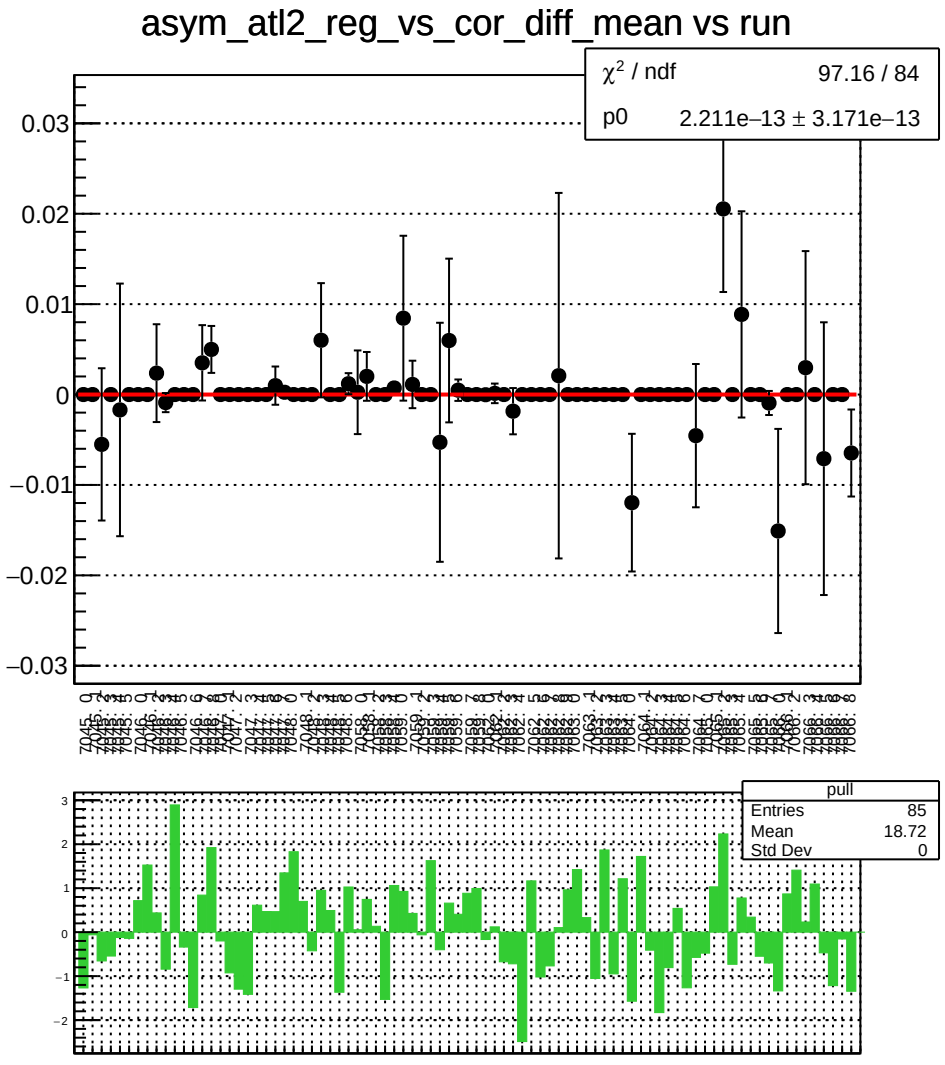

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.38 / 84
p0 −6948 ± 1.292e+04
pull
Entries 85
Mean 181.1
Std Dev 0
pull1D
Entries 85
Mean −0.04607
Std Dev 0.9714

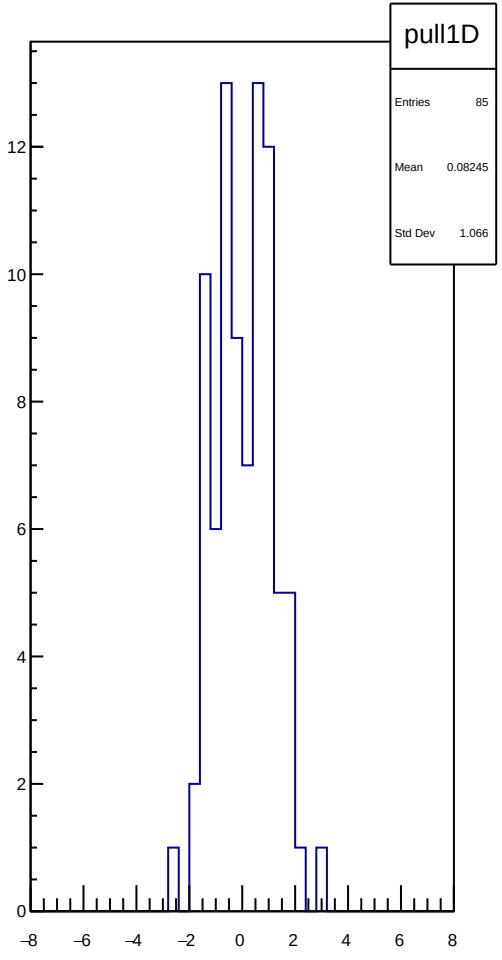

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3.146e+04 / 84
p0 1.161e+04 ± 9.133
16000
15000
14000
13000
12000
11000
10000
9000

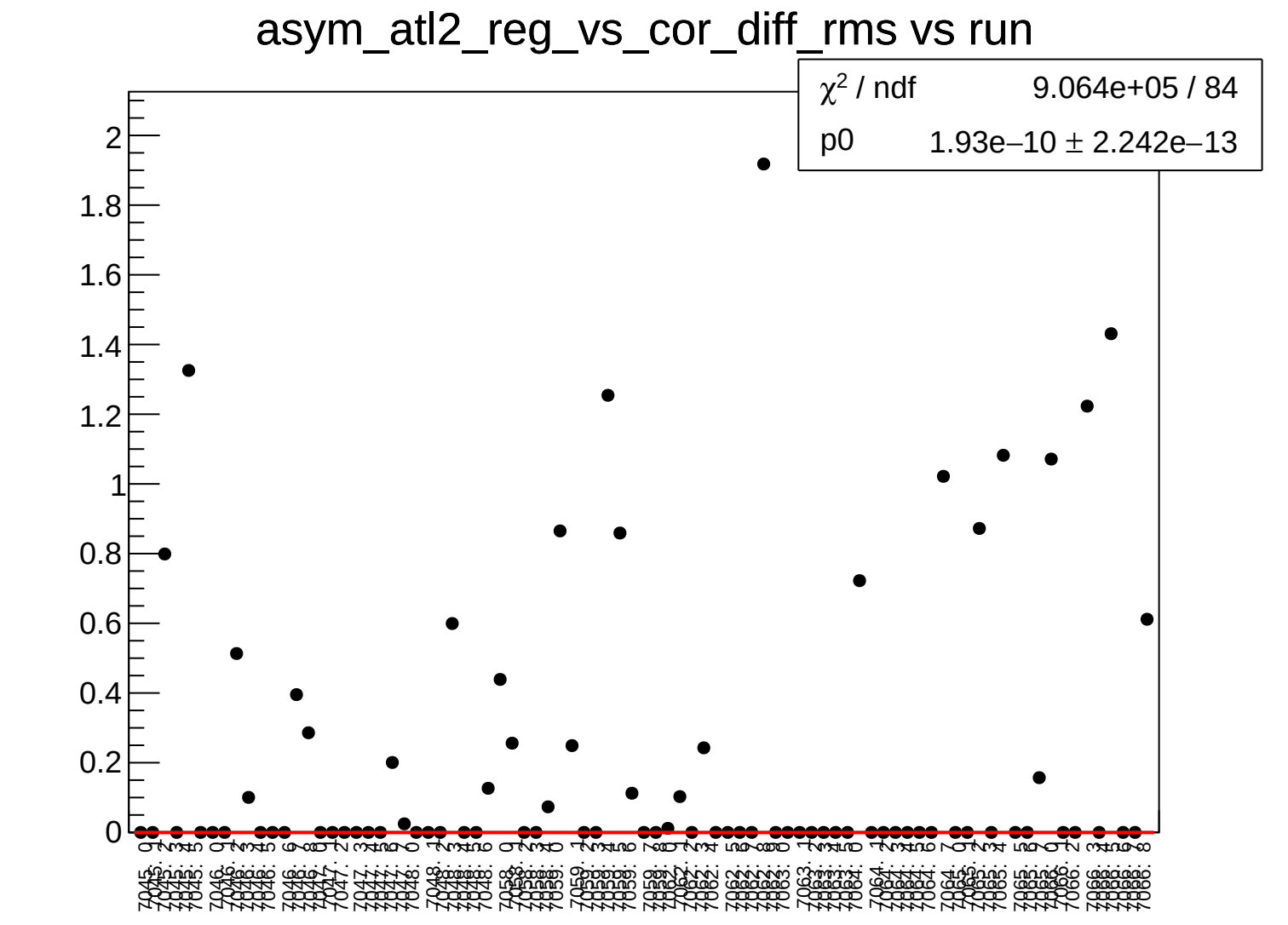

asym_atl2_mean vs run
×10^3
χ² / ndf 80.92 / 84
p0 1.271e+04 ± 1.253e+04
pull
Entries 85
Mean 178.9
Std Dev 0

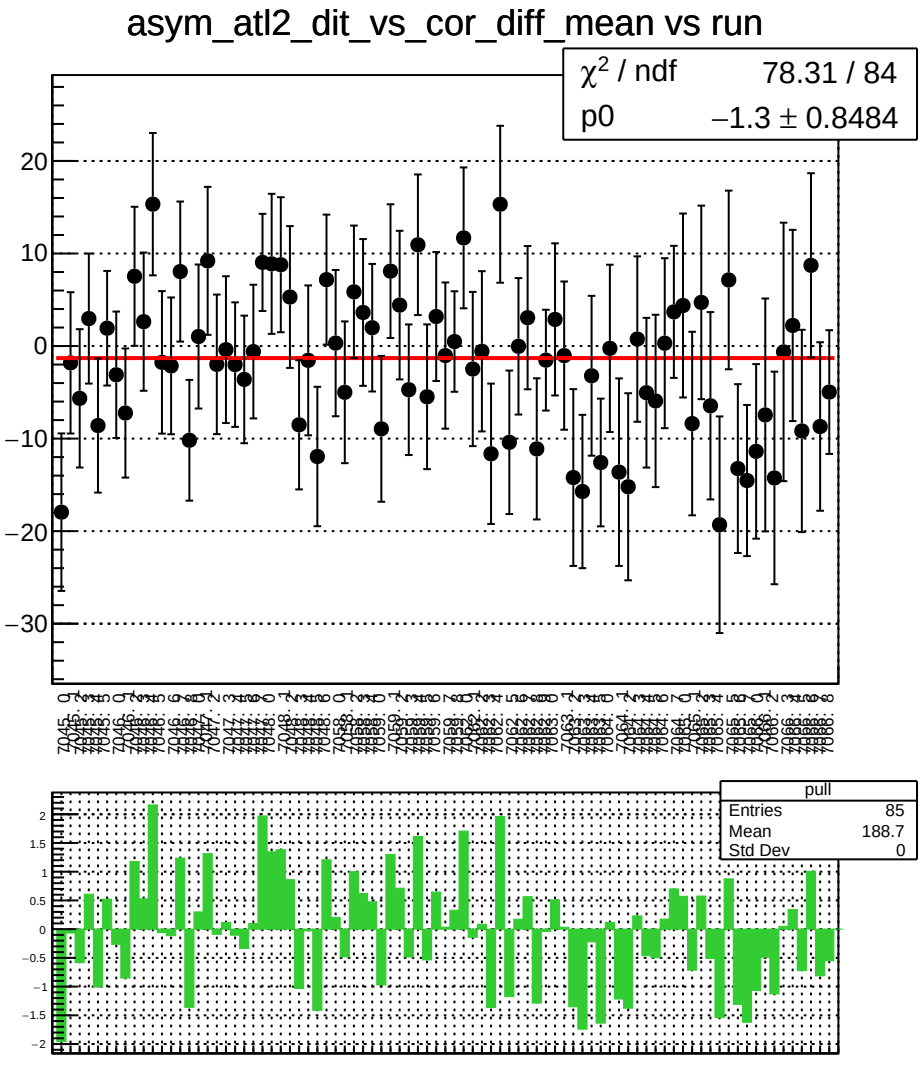

pull1D
Entries 85
Mean 0.0459
Std Dev 0.9746

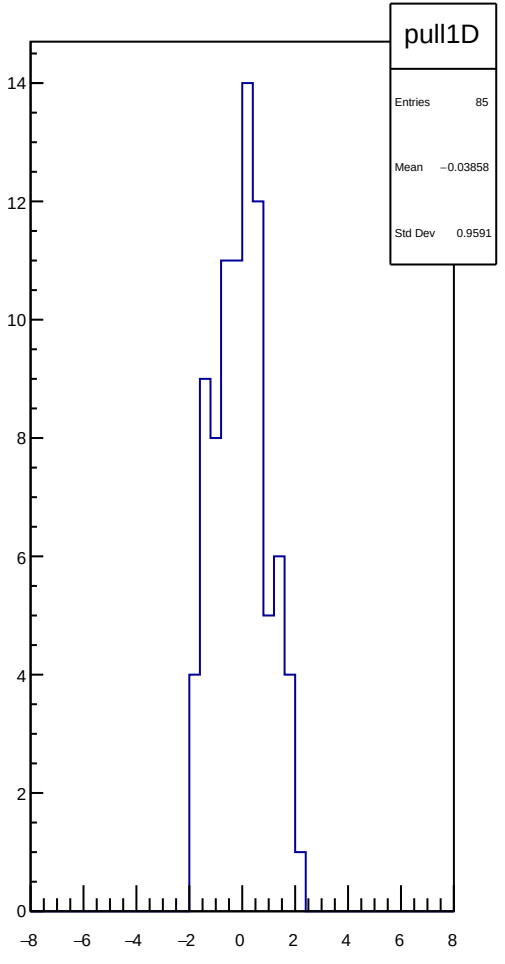

asym_atl2_rms vs run
χ^2 / ndf 2.911e+04 / 84
p0 1.127e+04 ± 8.86
15000
14000
13000
12000
11000
10000
9000

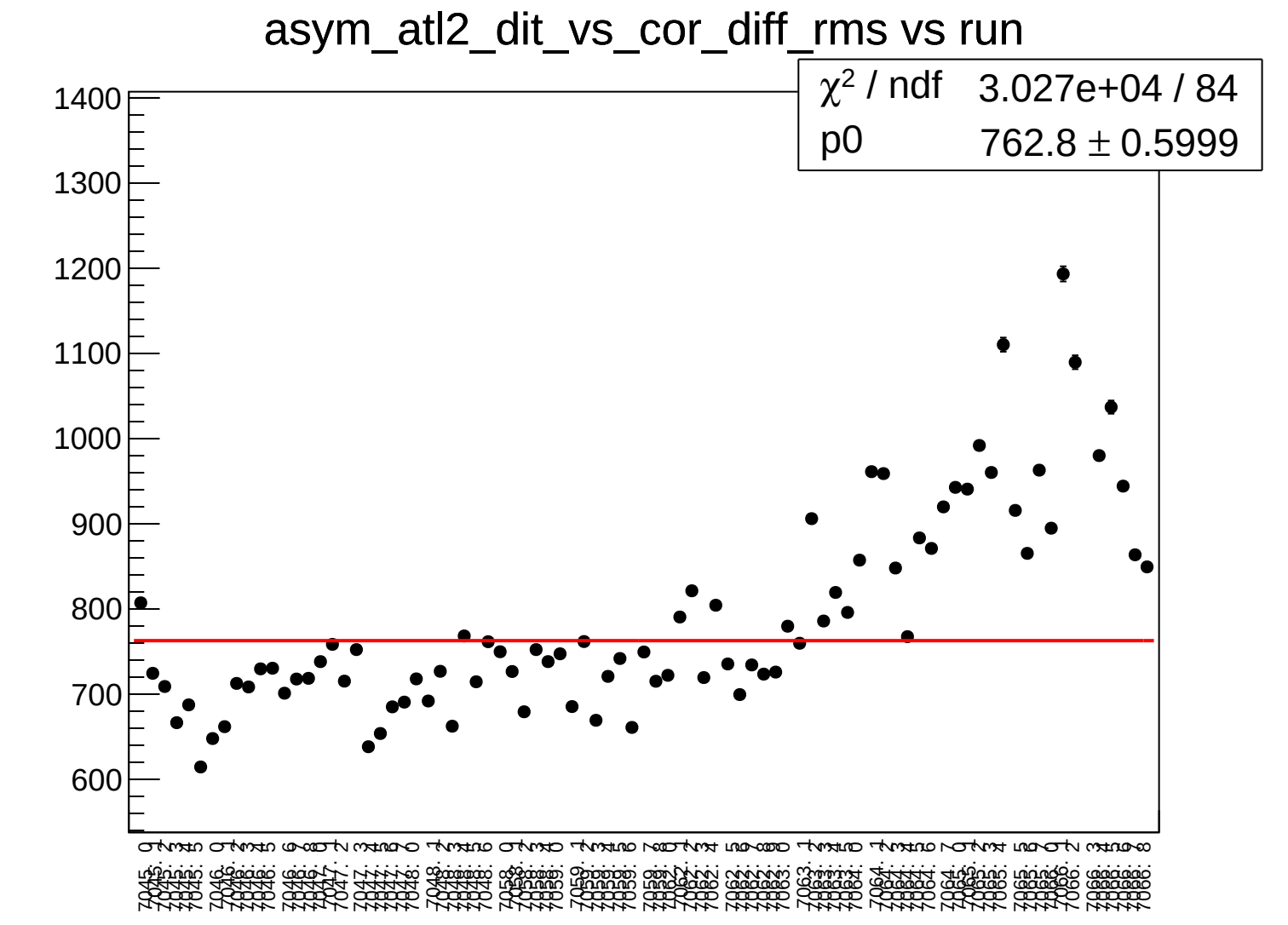

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 97.16 / 84
p0 2.211e−13 ± 3.171e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 18.72
Std Dev 0
3
2
1
0
−1
−2

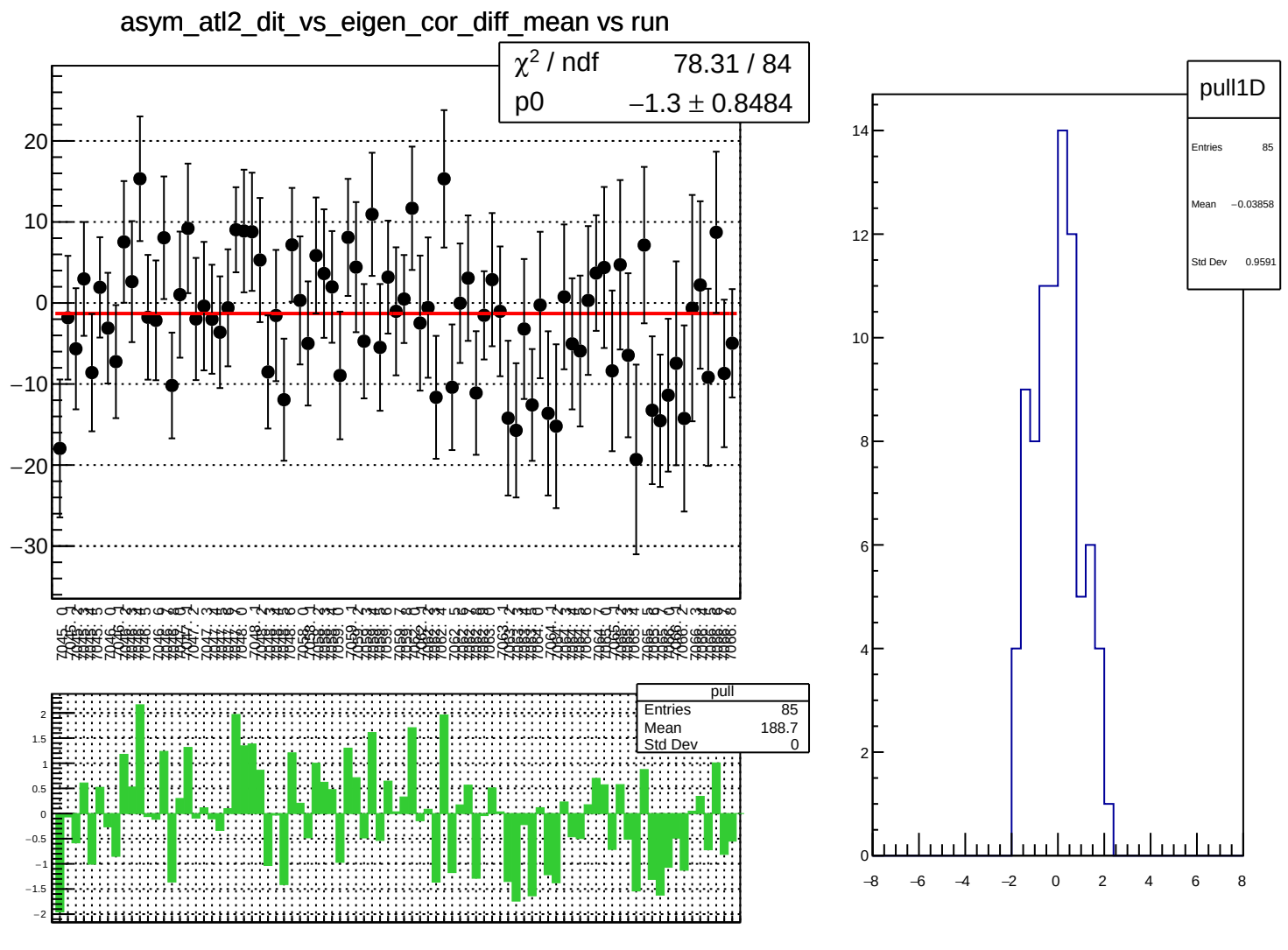

pull1D
Entries 85
Mean 0.08245
Std Dev 1.066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

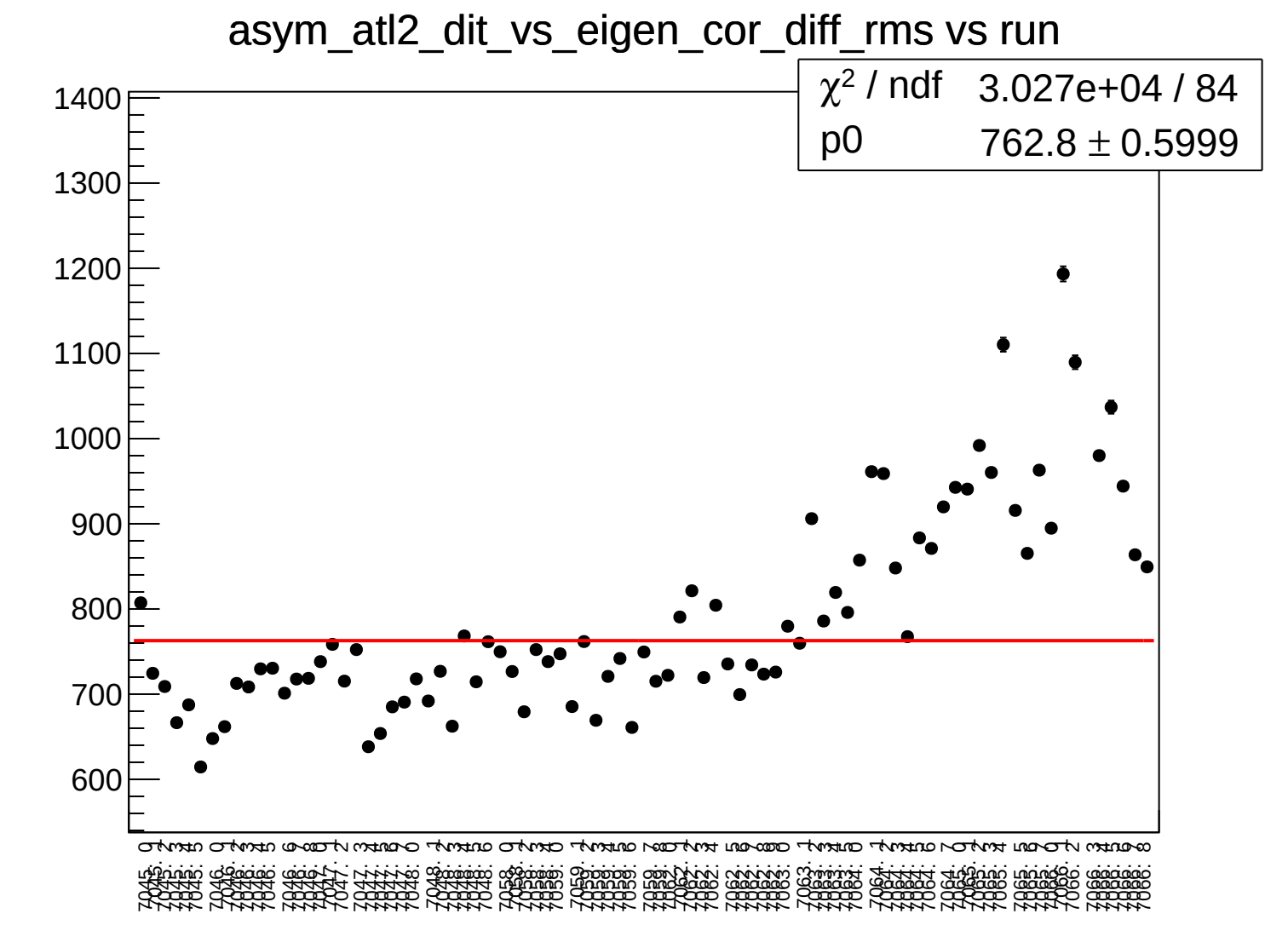

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.064e+05 / 84
p0 1.93e−10 ± 2.242e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

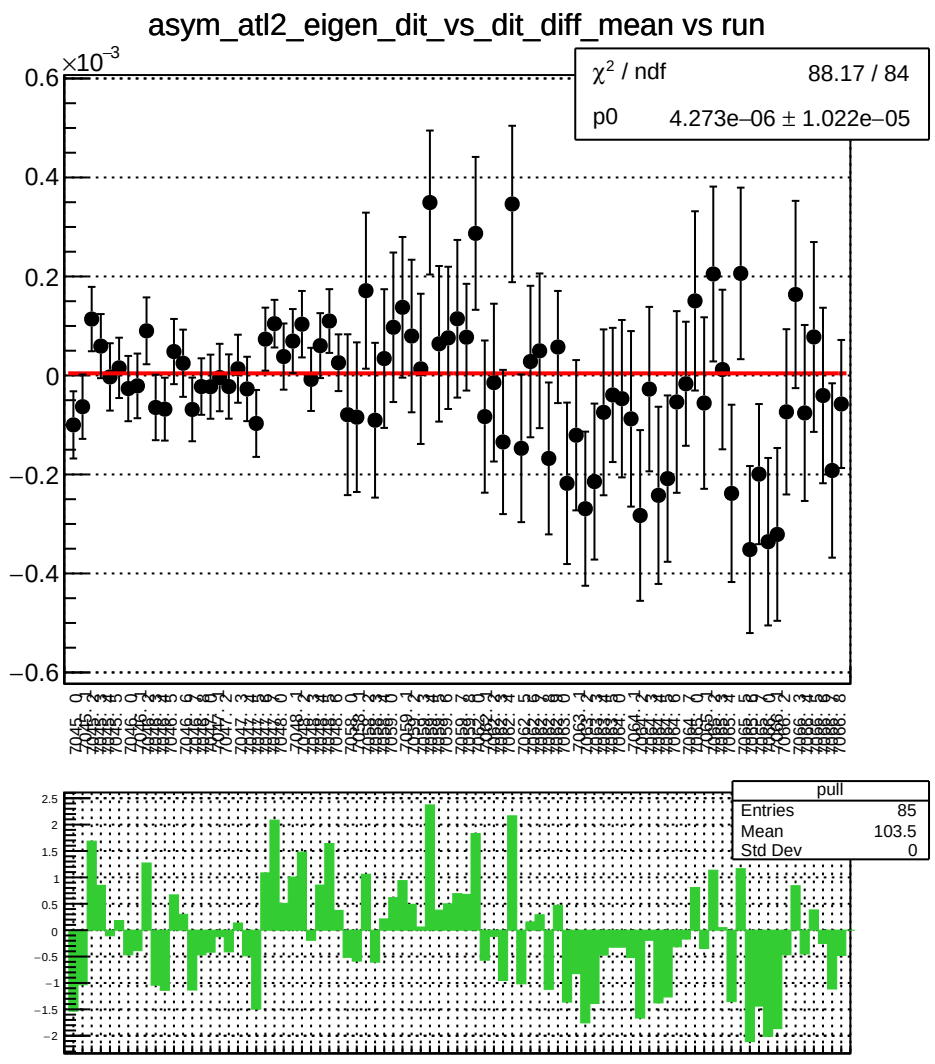

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 78.31 / 84
p0 −1.3 ± 0.8484
pull
Entries 85
Mean 188.7
Std Dev 0

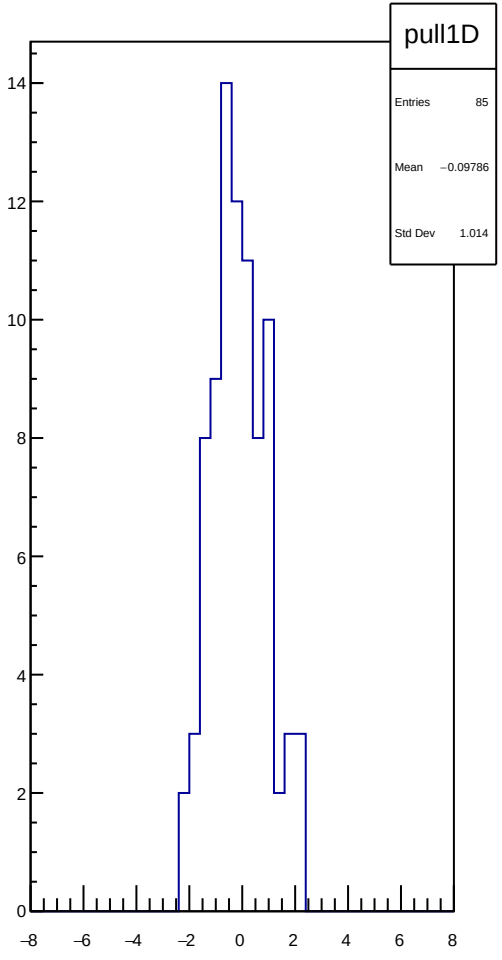

pull1D
Entries 85
Mean −0.03858
Std Dev 0.9591

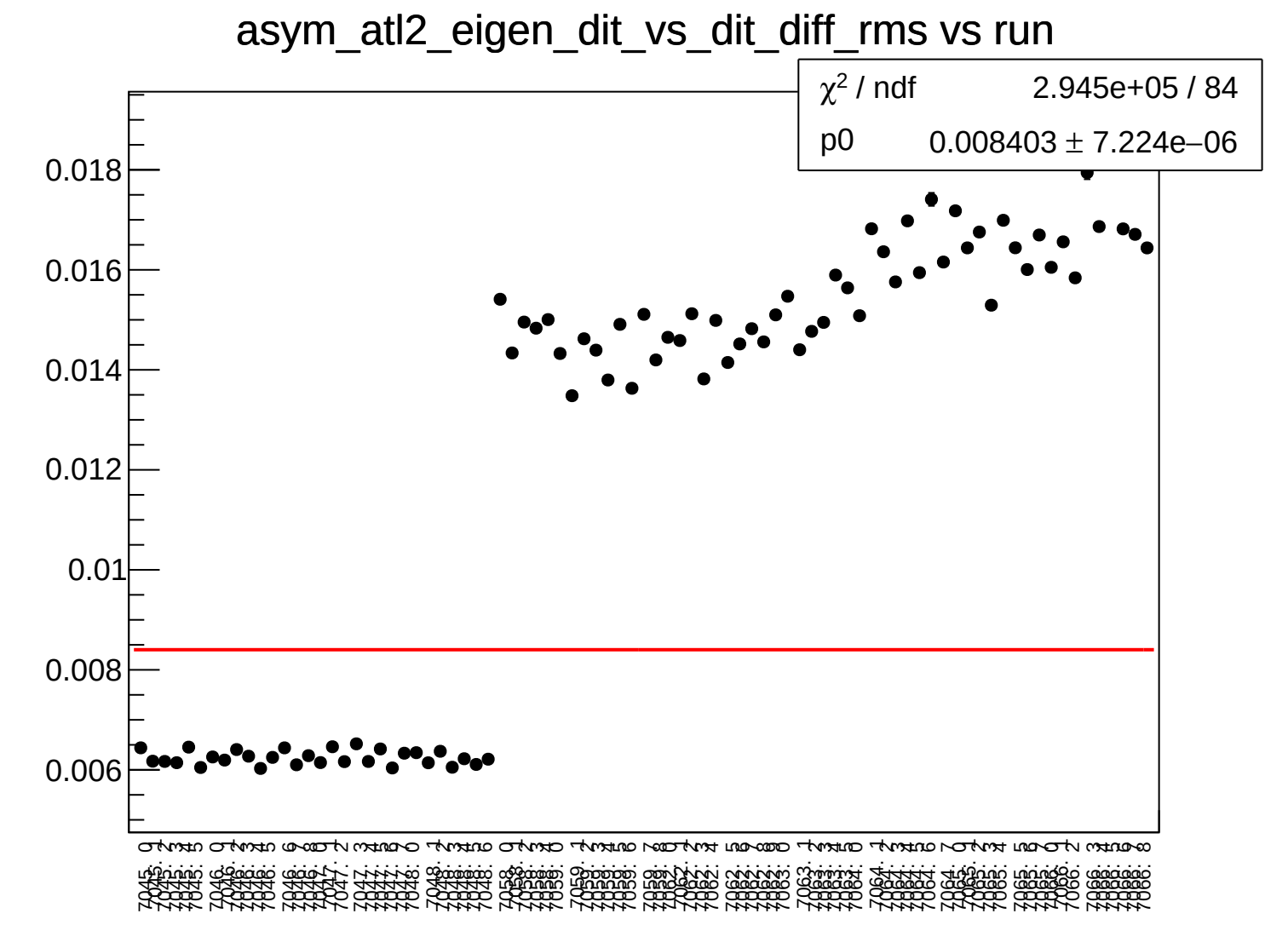

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.027e+04 / 84
p0 762.8 ± 0.5999
1400
1300
1200
1100
1000
900
800
700
600

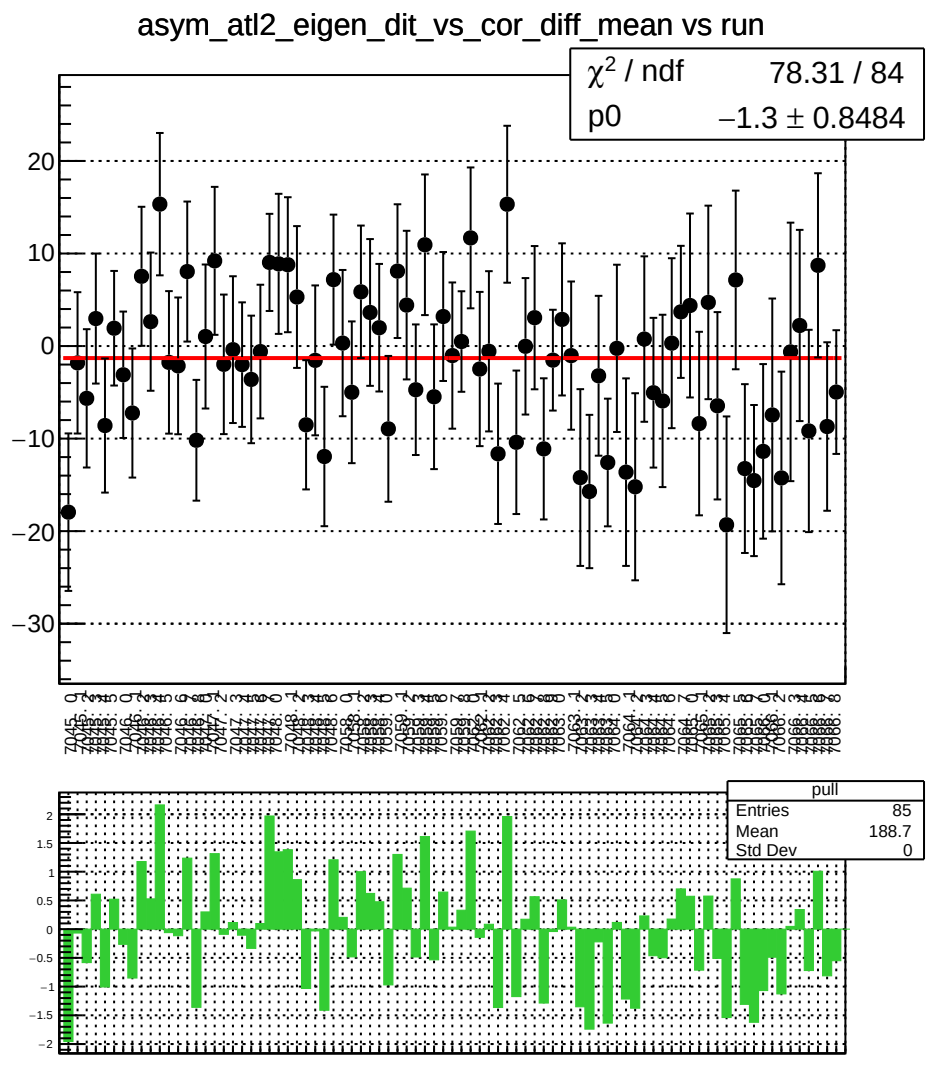

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.31 / 84
p0 −1.3 ± 0.8484
pull
Entries 85
Mean 188.7
Std Dev 0
pull1D
Entries 85
Mean −0.03858
Std Dev 0.9591

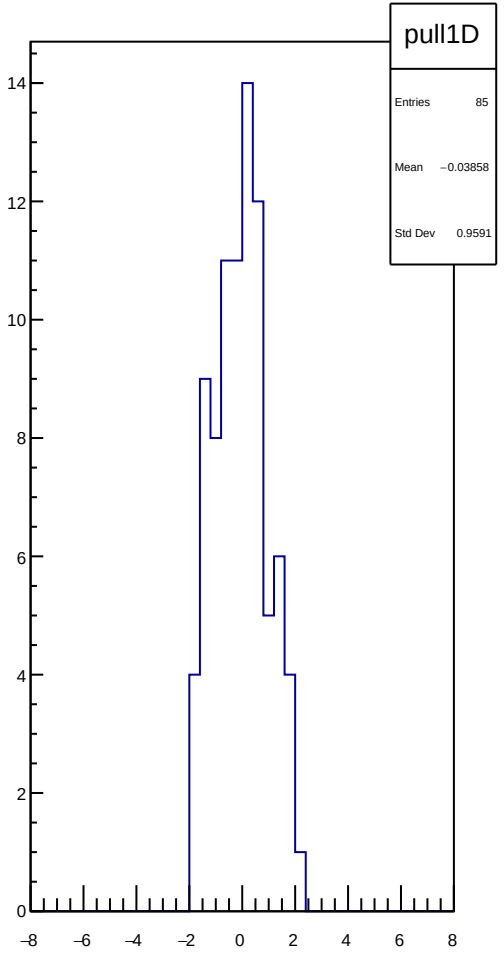

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.027e+04 / 84
p0 762.8 ± 0.5999
1400
1300
1200
1100
1000
900
800
700
600

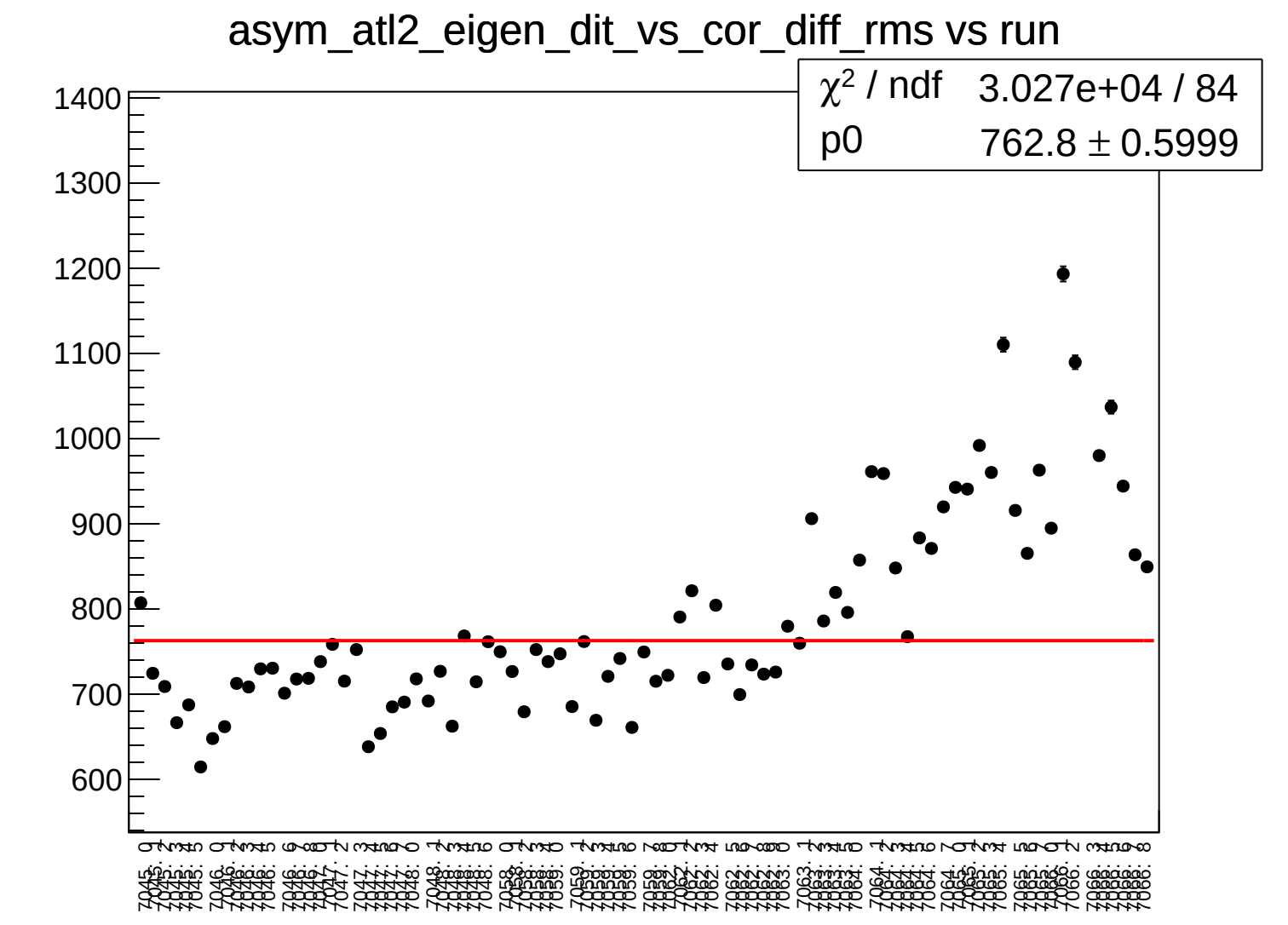

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.17 / 84
p0 4.273e−06 ± 1.022e−05
pull
Entries 85
Mean 103.5
Std Dev 0

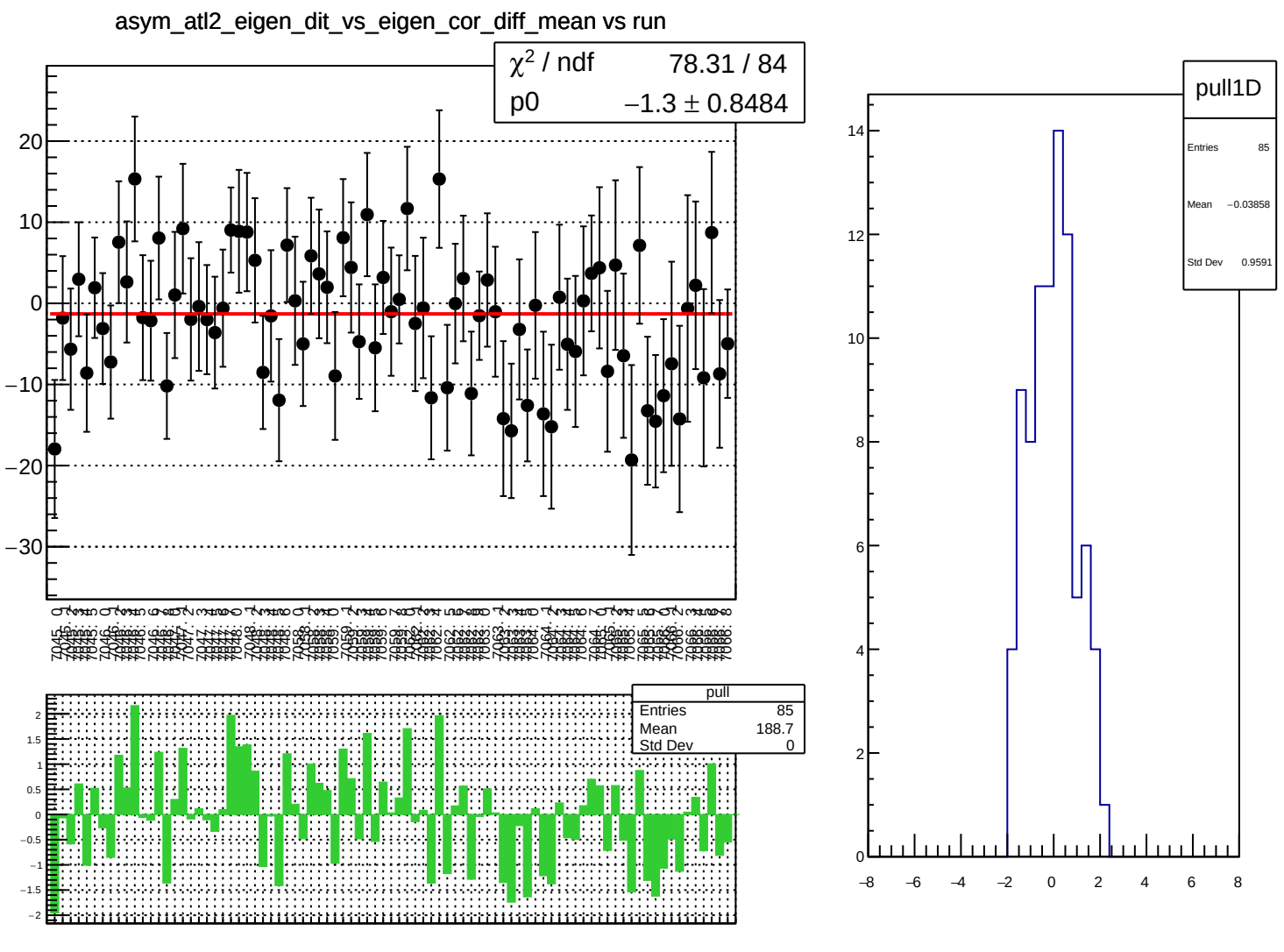

pull1D
Entries 85
Mean −0.09786
Std Dev 1.014

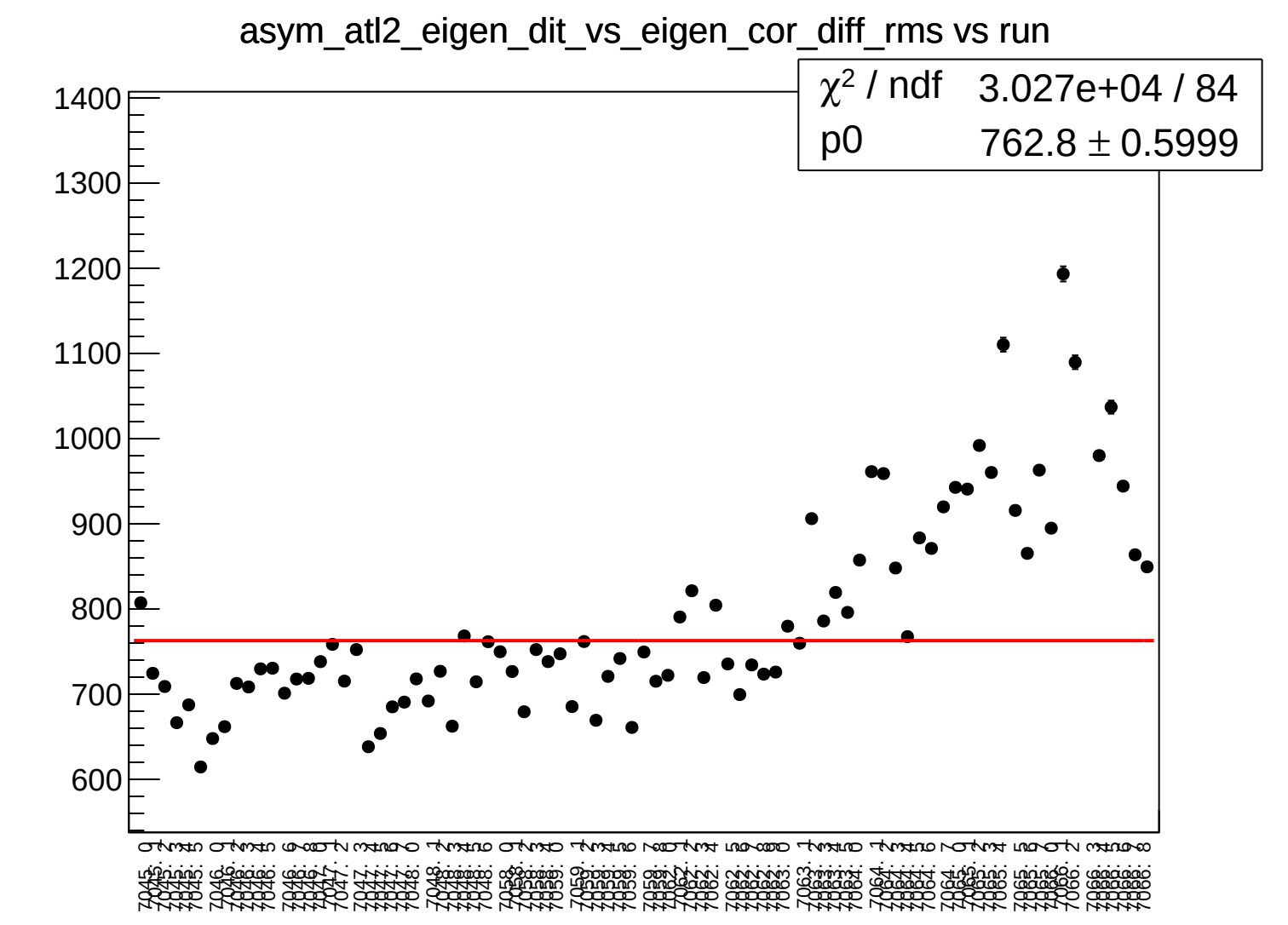

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.945e+05 / 84
p0 0.008403 ± 7.224e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

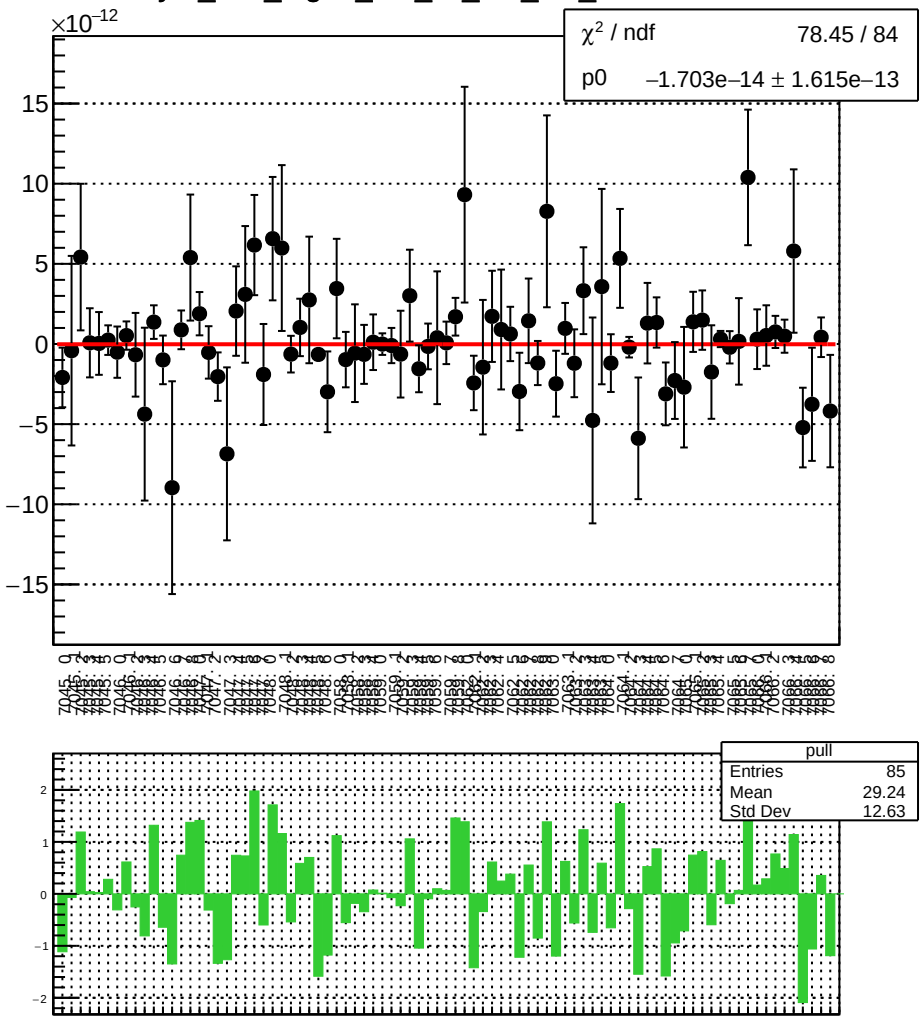

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.31 / 84
p0 −1.3 ± 0.8484
pull
Entries 85
Mean 188.7
Std Dev 0

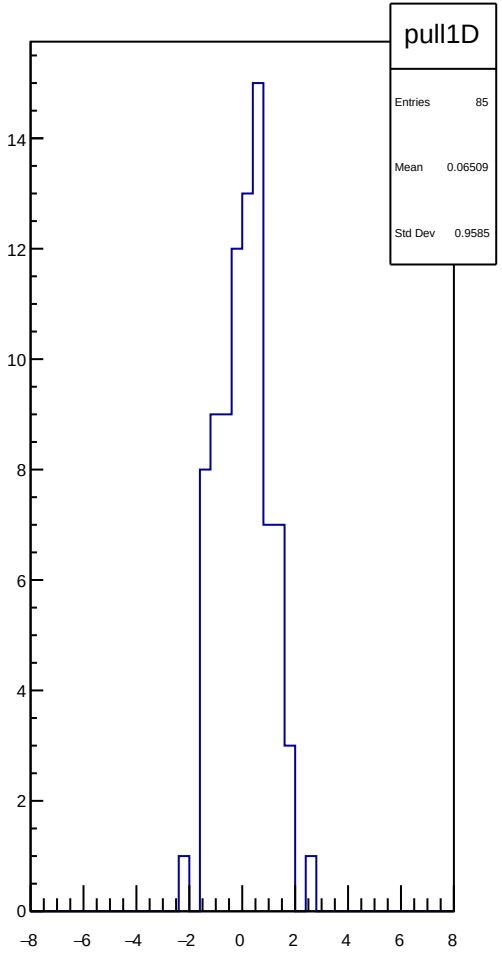

pull1D
Entries 85
Mean −0.03858
Std Dev 0.9591

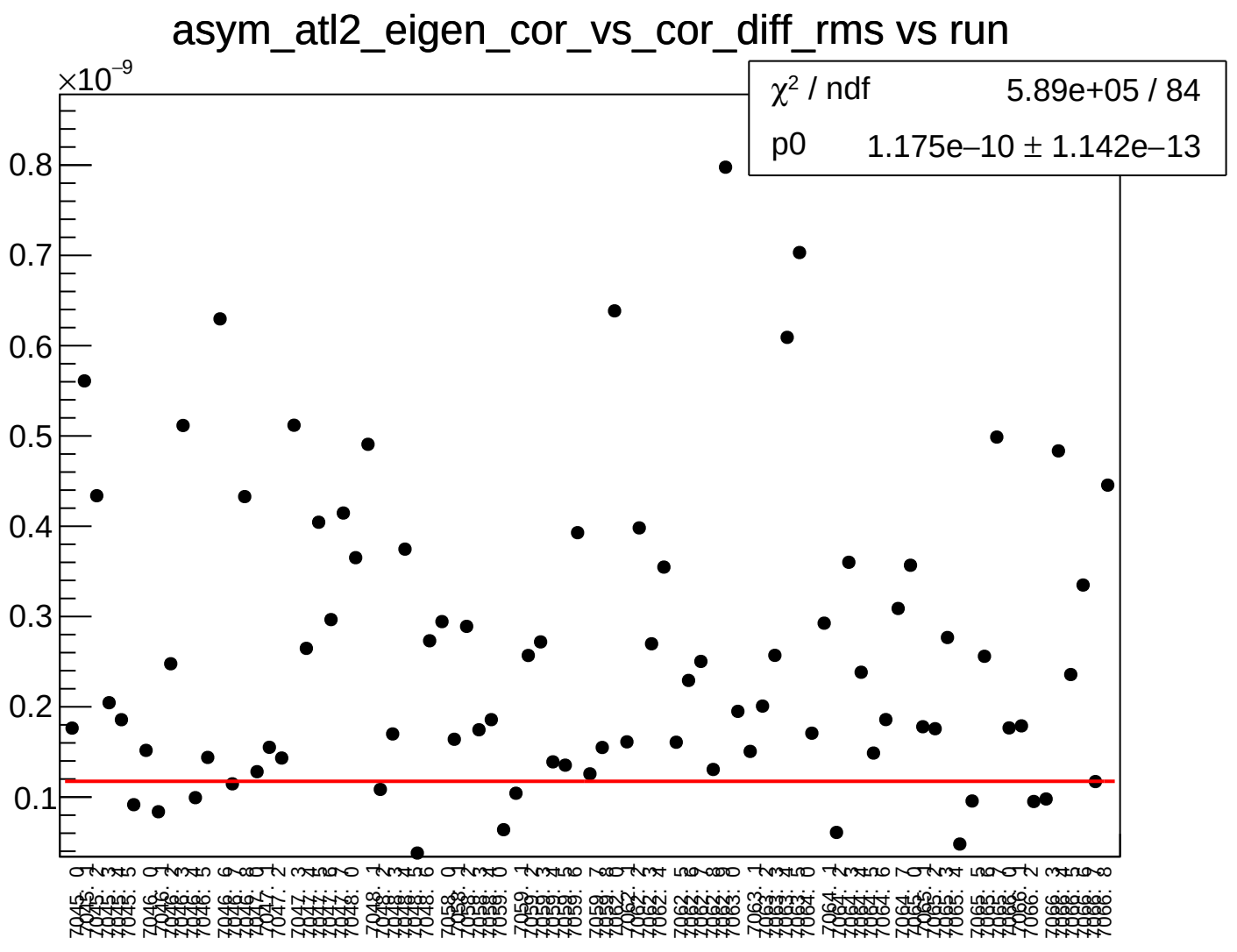

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.027e+04 / 84
p0 762.8 ± 0.5999
1400
1300
1200
1100
1000
900
800
700
600

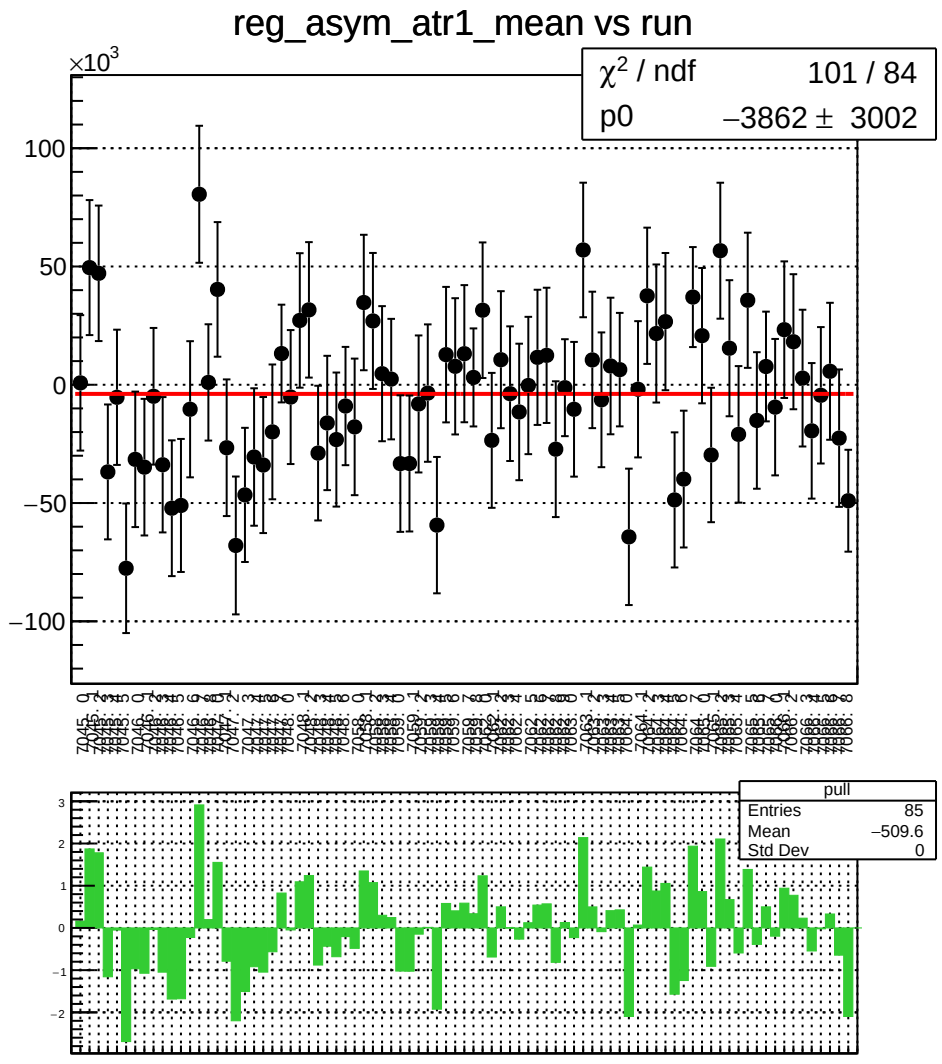

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.31 / 84
p0 −1.3 ± 0.8484
pull
Entries 85
Mean 188.7
Std Dev 0
pull1D
Entries 85
Mean −0.03858
Std Dev 0.9591

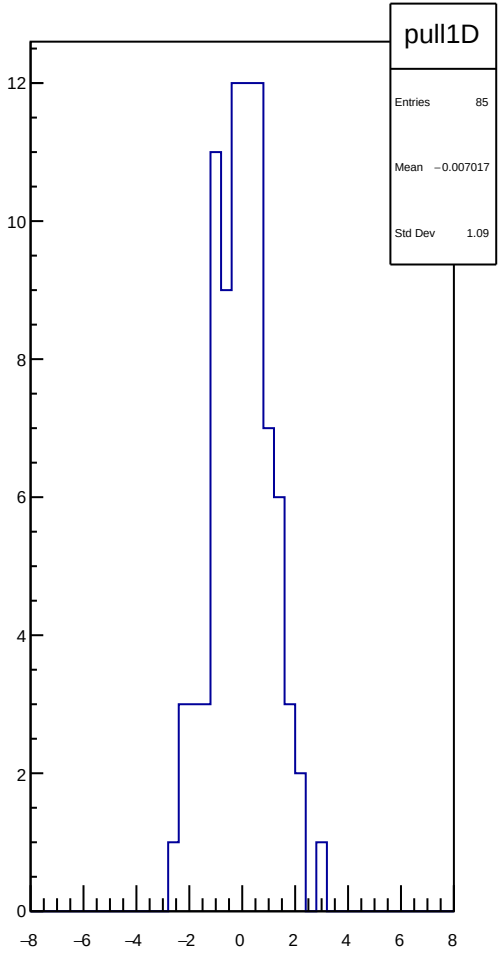

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.027e+04 / 84
p0 762.8 ± 0.5999
1400
1300
1200
1100
1000
900
800
700
600

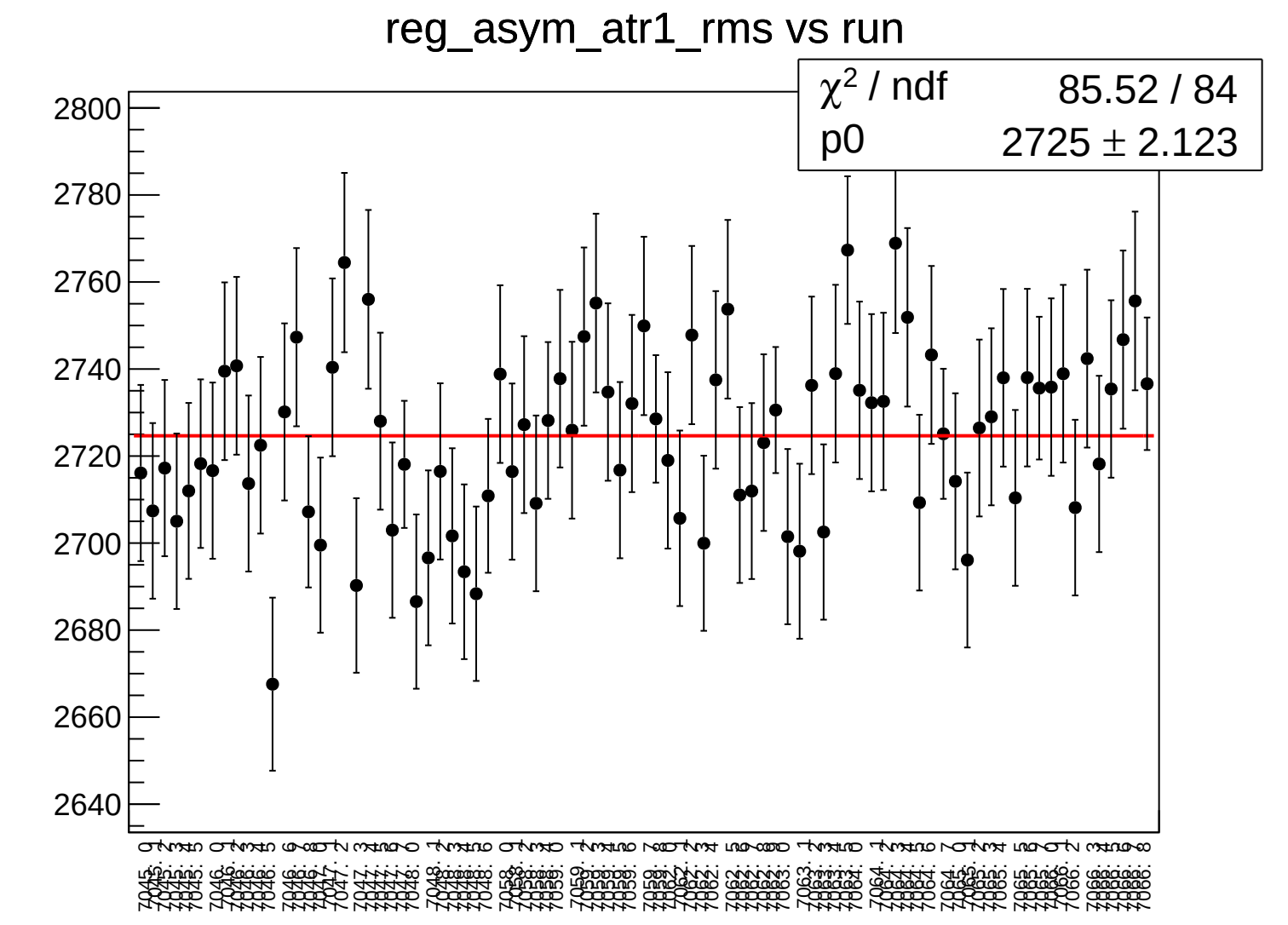

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.45 / 84
p0 −1.703e−14 ± 1.615e−13
pull
Entries 85
Mean 29.24
Std Dev 12.63

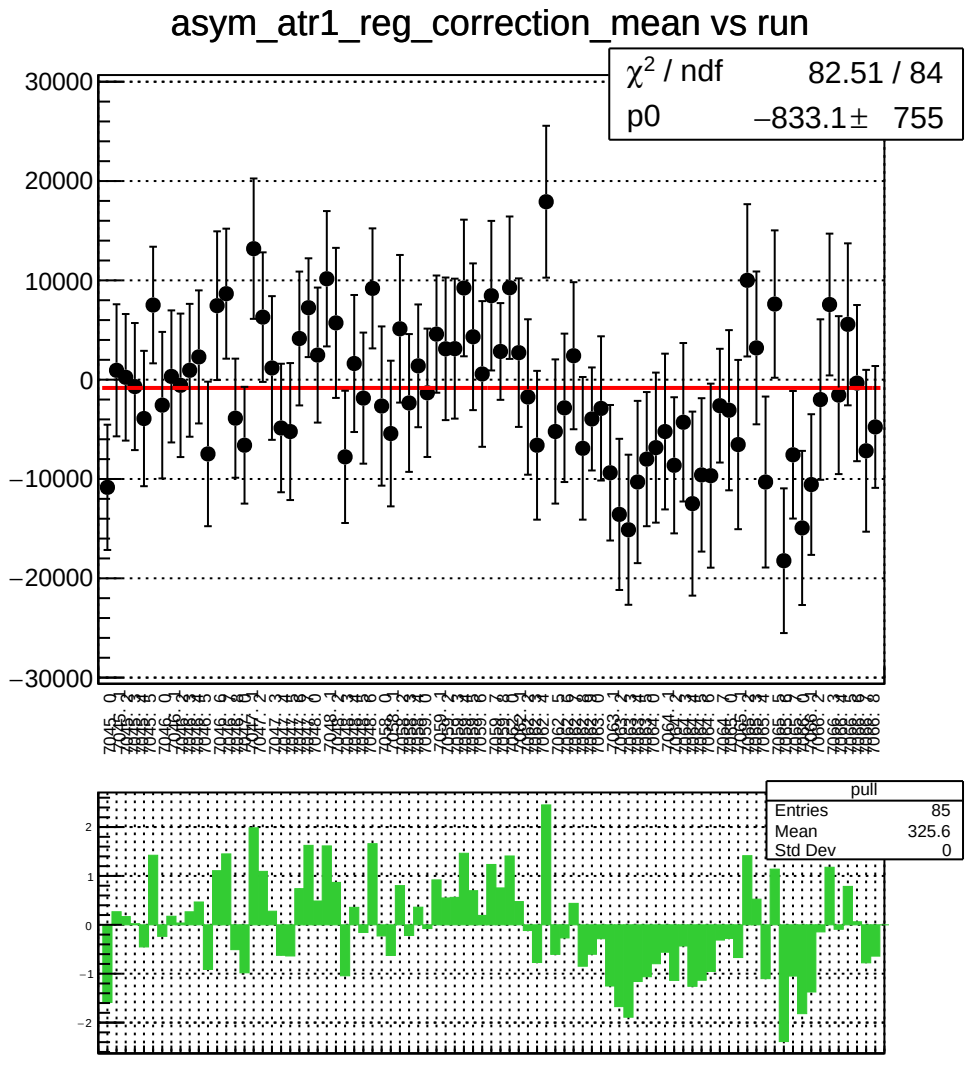

pull1D
Entries 85
Mean 0.06509
Std Dev 0.9585

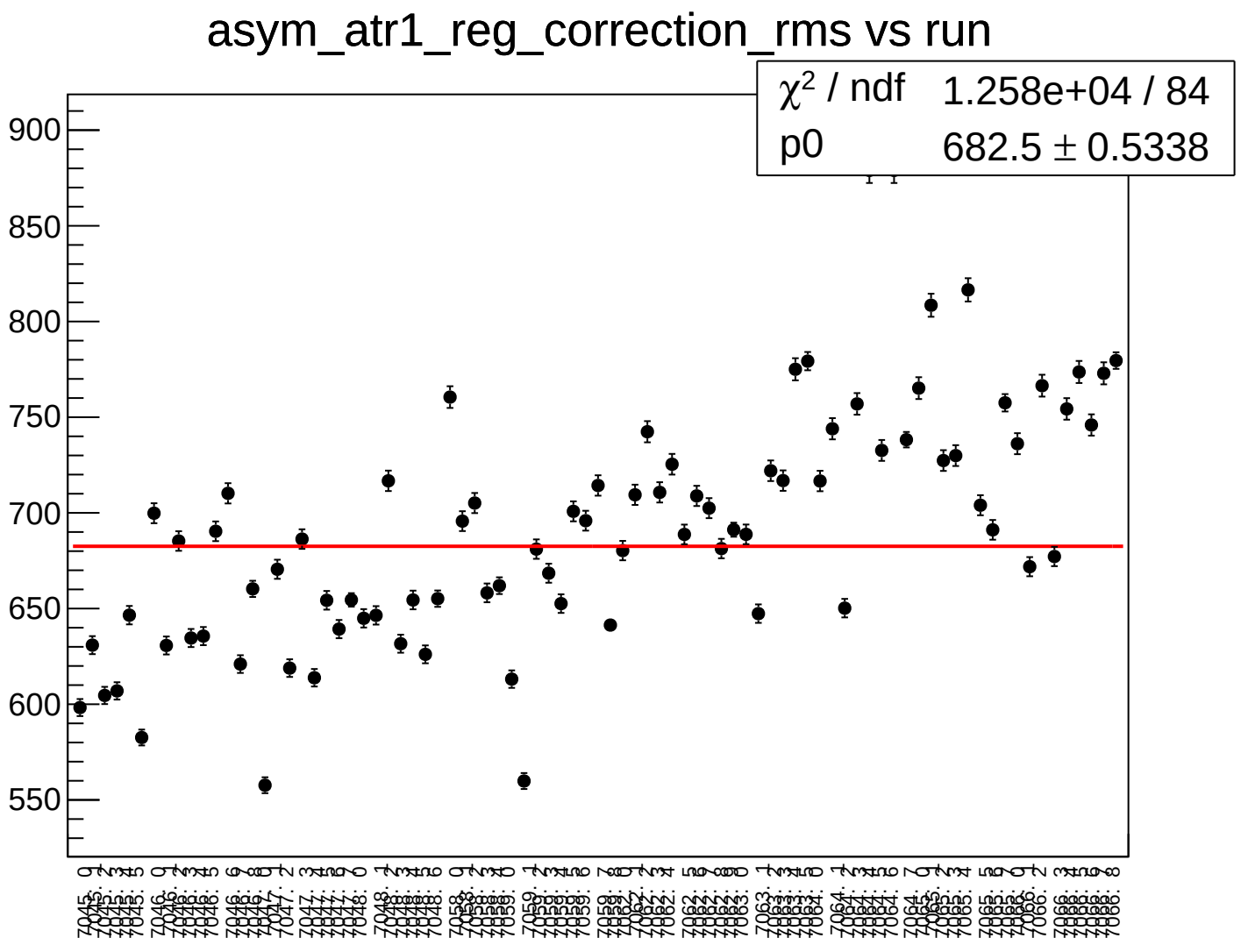

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.89e+05 / 84
p0 1.175e−10 ± 1.142e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

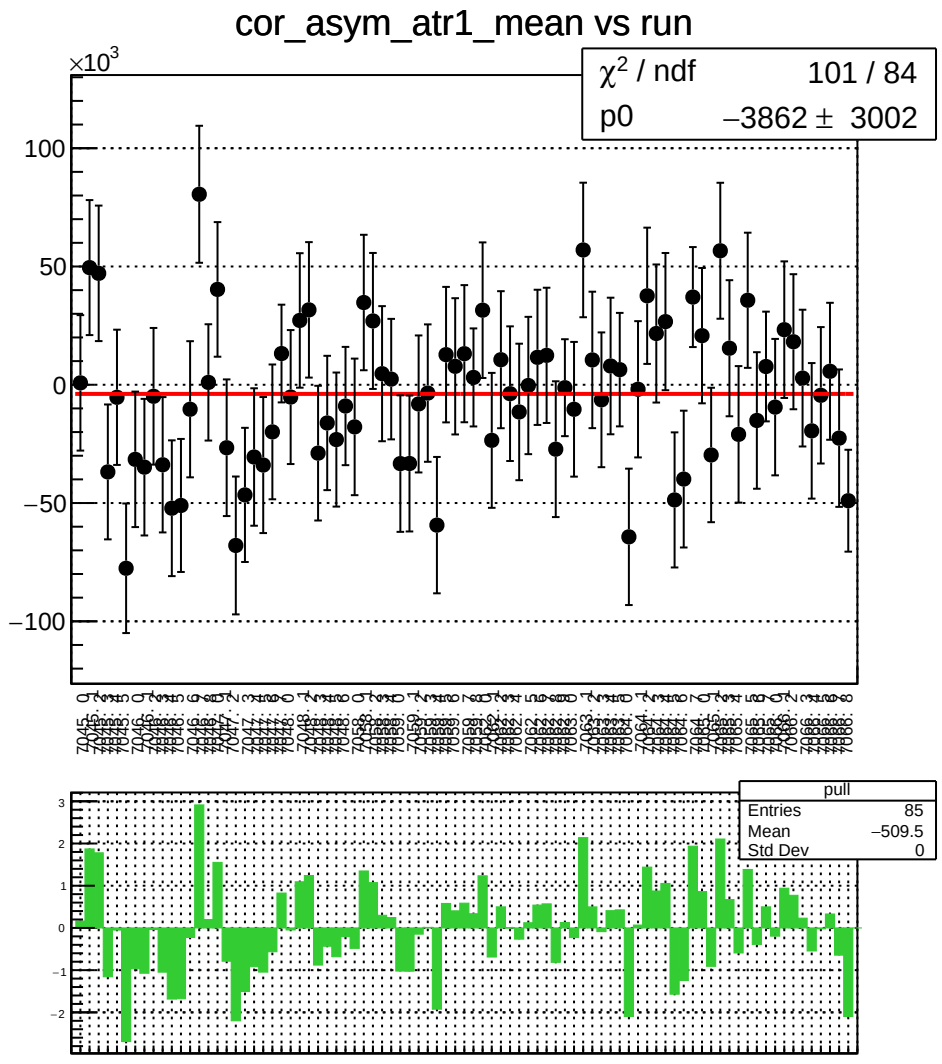

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 101 / 84
p0 −3862 ± 3002
100
50
0
−50
−100
pull
Entries 85
Mean −509.6
Std Dev 0
3
2
1
0
−1
−2

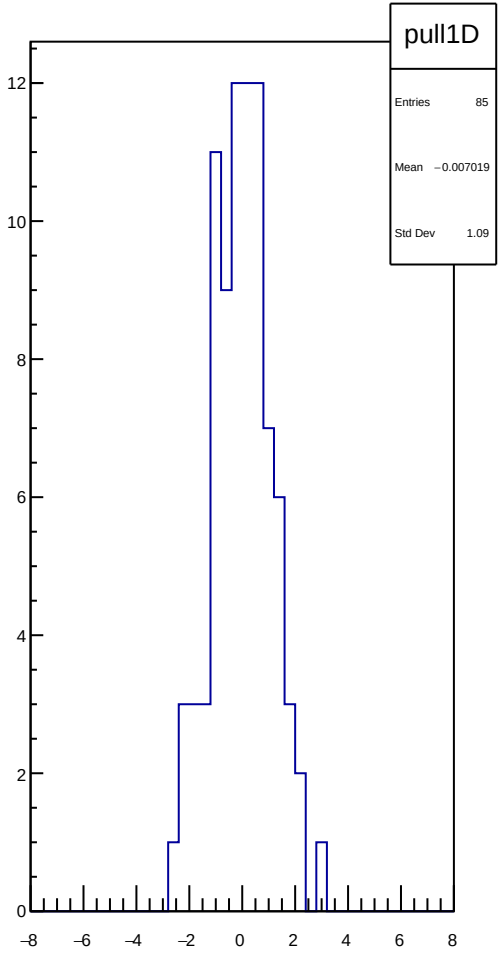

pull1D
Entries 85
Mean −0.007017
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

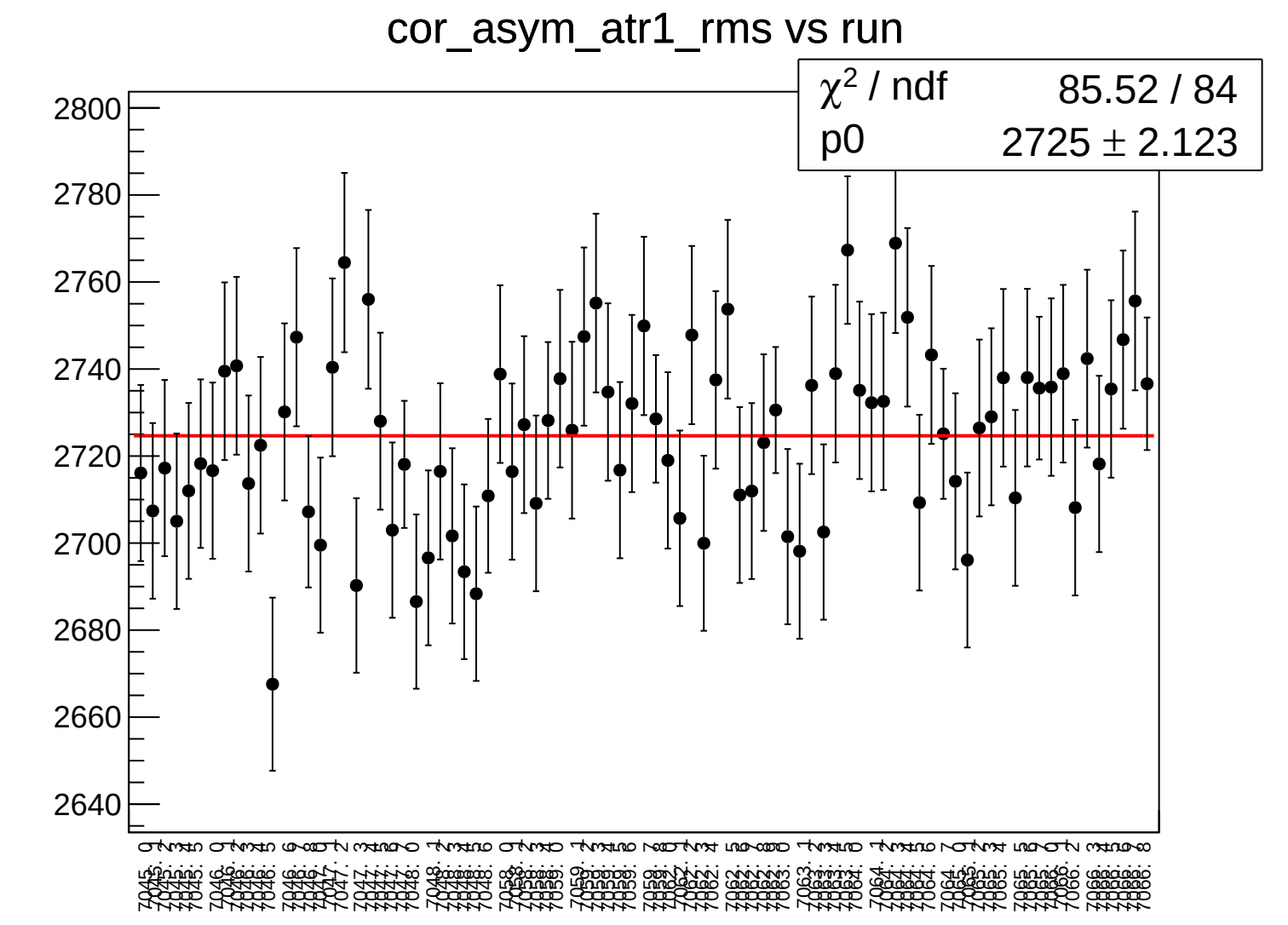

reg_asym_atr1_rms vs run
χ^2 / ndf 85.52 / 84
p0 2725 ± 2.123
2800
2780
2760
2740
2720
2700
2680
2660
2640

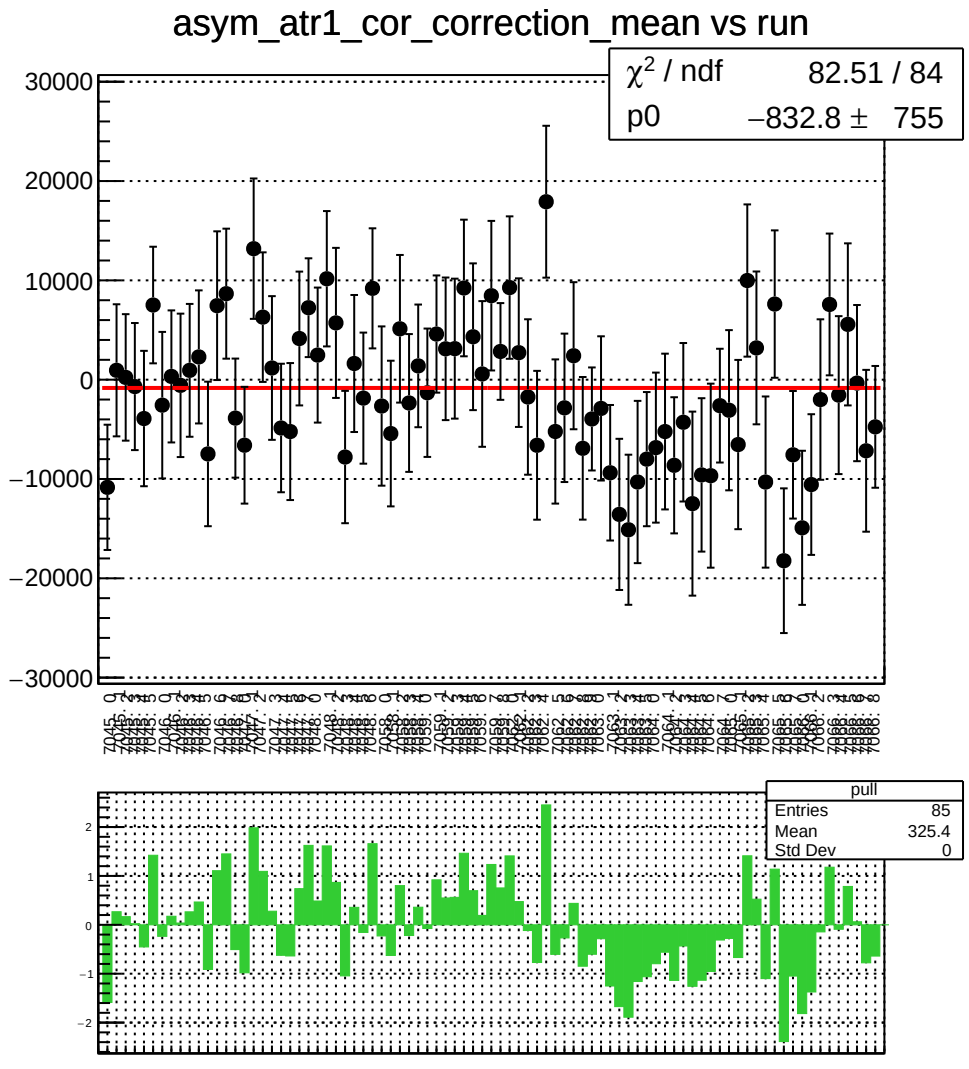

asym_atr1_reg_correction_mean vs run
χ² / ndf 82.51 / 84
p0 −833.1± 755
pull
Entries 85
Mean 325.6
Std Dev 0
pull1D
Entries 85
Mean −0.02613
Std Dev 0.9849

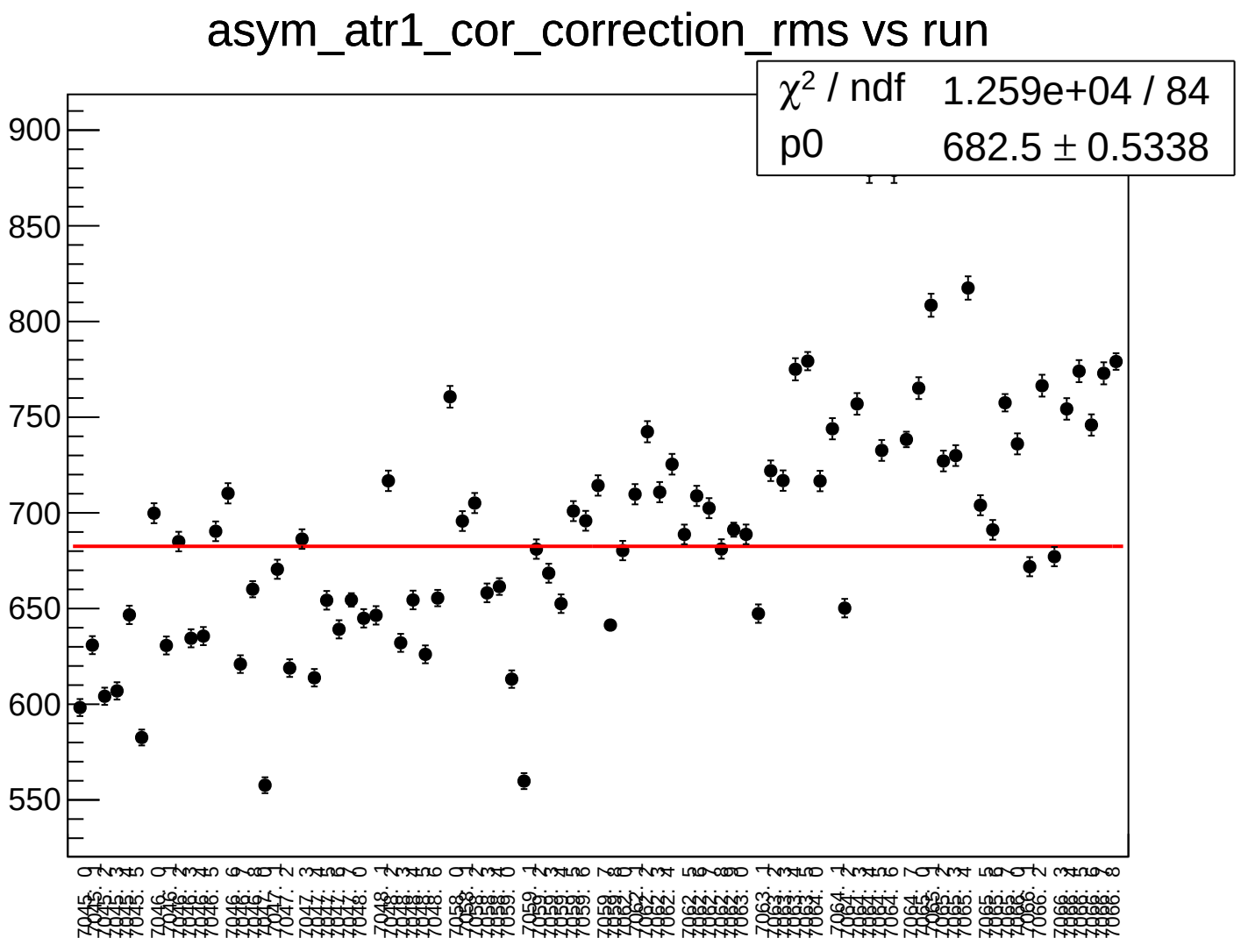

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.258e+04 / 84
p0 682.5 ± 0.5338
900
850
800
750
700
650
600
550

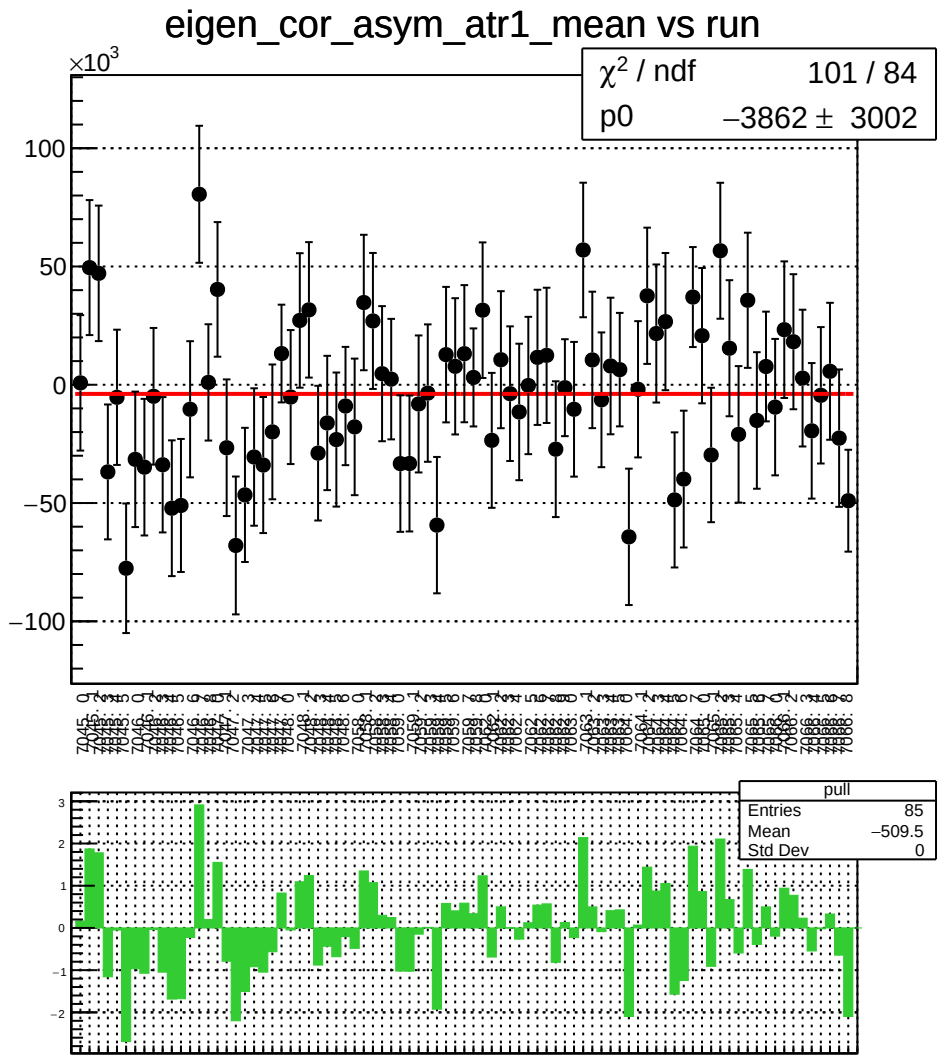

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 101 / 84
p0 −3862 ± 3002
100
50
0
−50
−100
pull
Entries 85
Mean −509.5
Std Dev 0
3
2
1
0
−1
−2

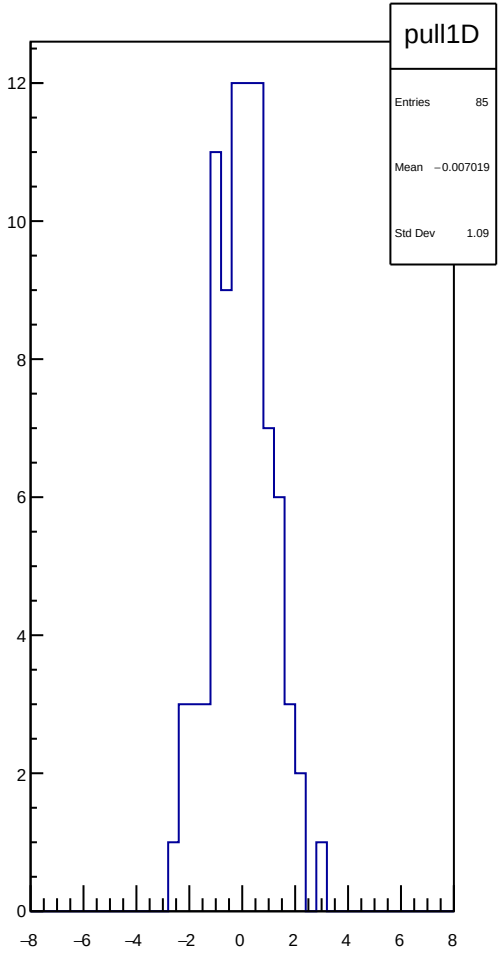

pull1D
Entries 85
Mean −0.007019
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

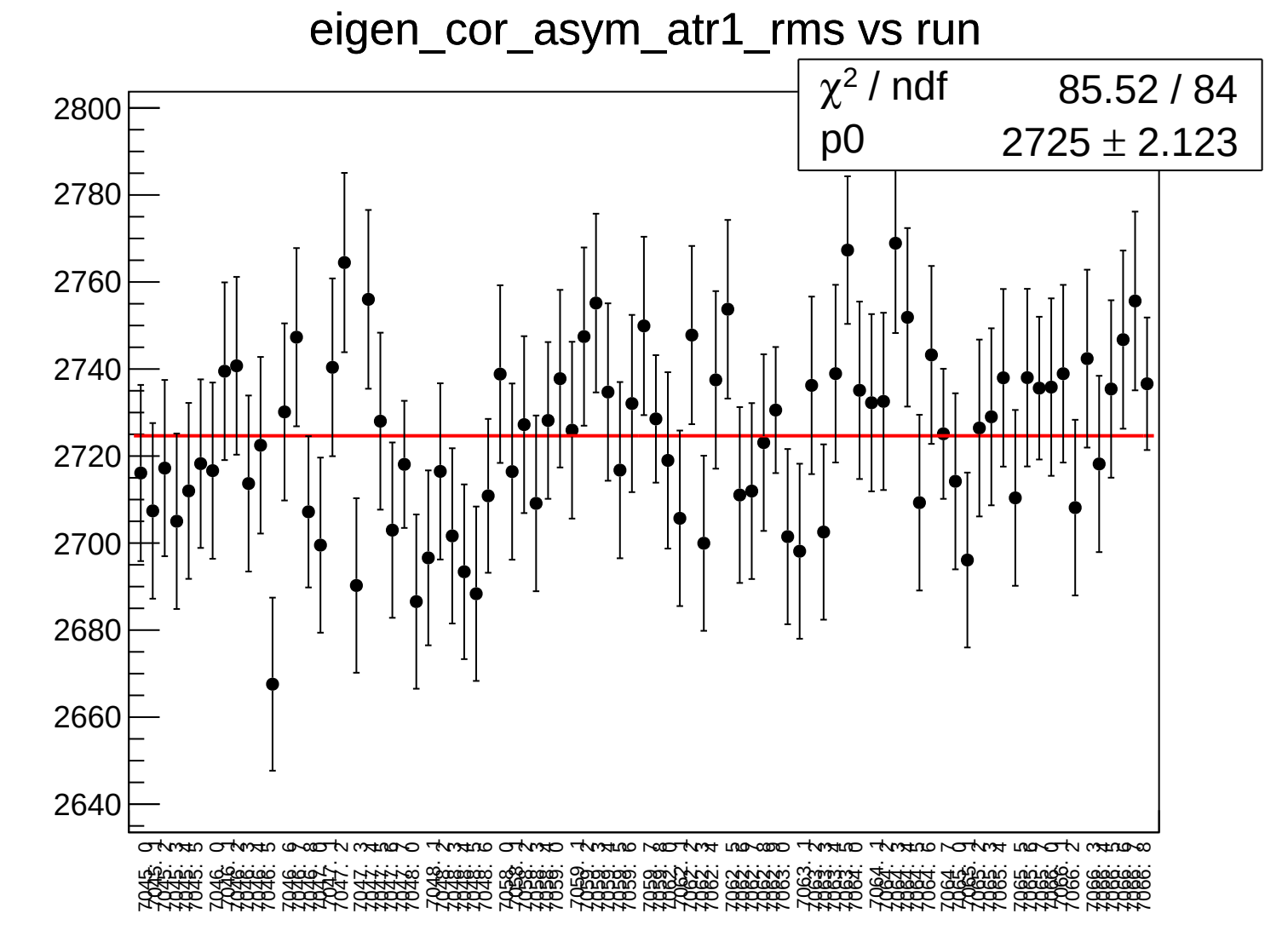

cor_asym_atr1_rms vs run
χ^2 / ndf 85.52 / 84
p0 2725 ± 2.123
2800
2780
2760
2740
2720
2700
2680
2660
2640

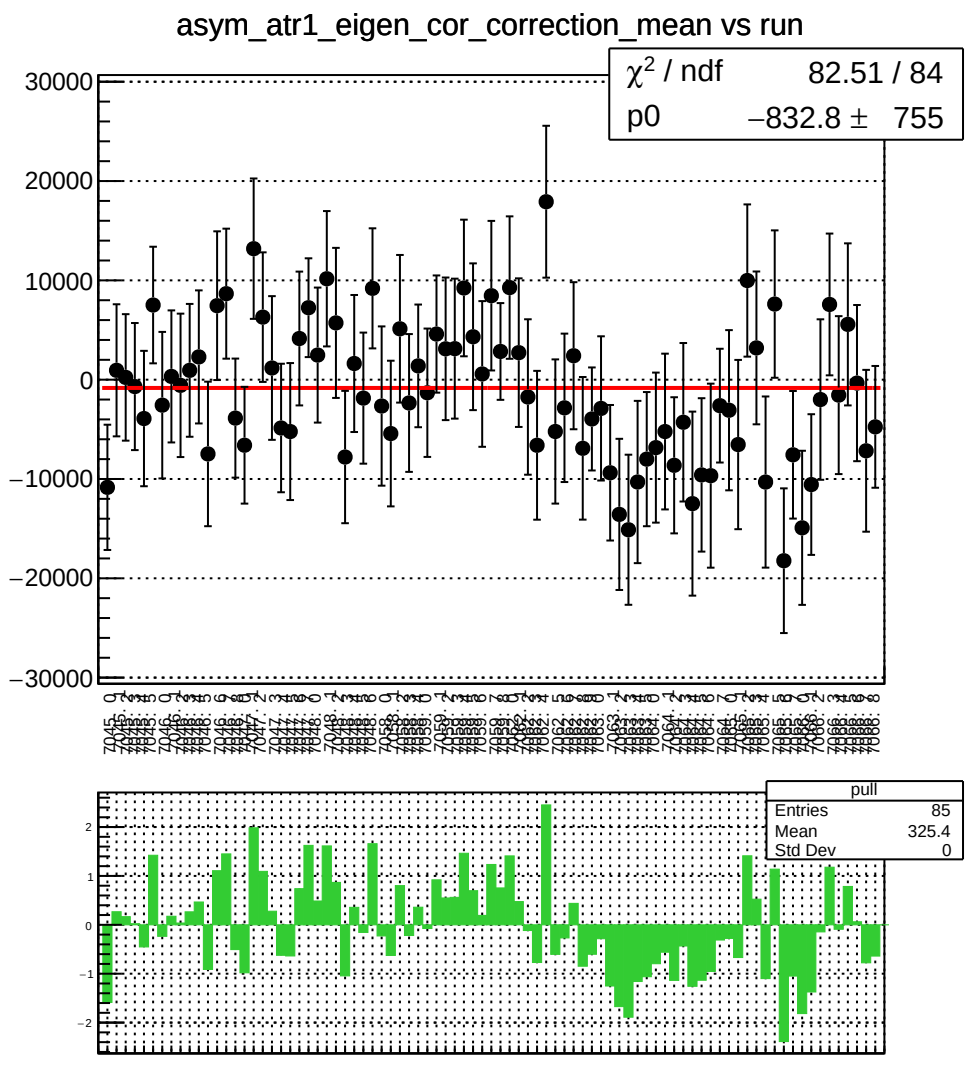

asym_atr1_cor_correction_mean vs run
χ² / ndf 82.51 / 84
p0 −832.8 ± 755
pull
Entries 85
Mean 325.4
Std Dev 0
pull1D
Entries 85
Mean −0.02615
Std Dev 0.9849

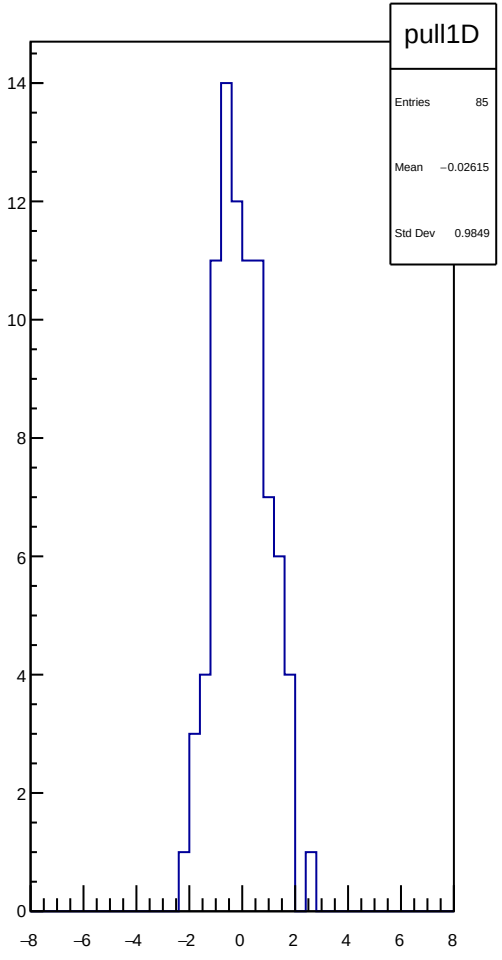

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.259e+04 / 84
p0 682.5 ± 0.5338
900
850
800
750
700
650
600
550

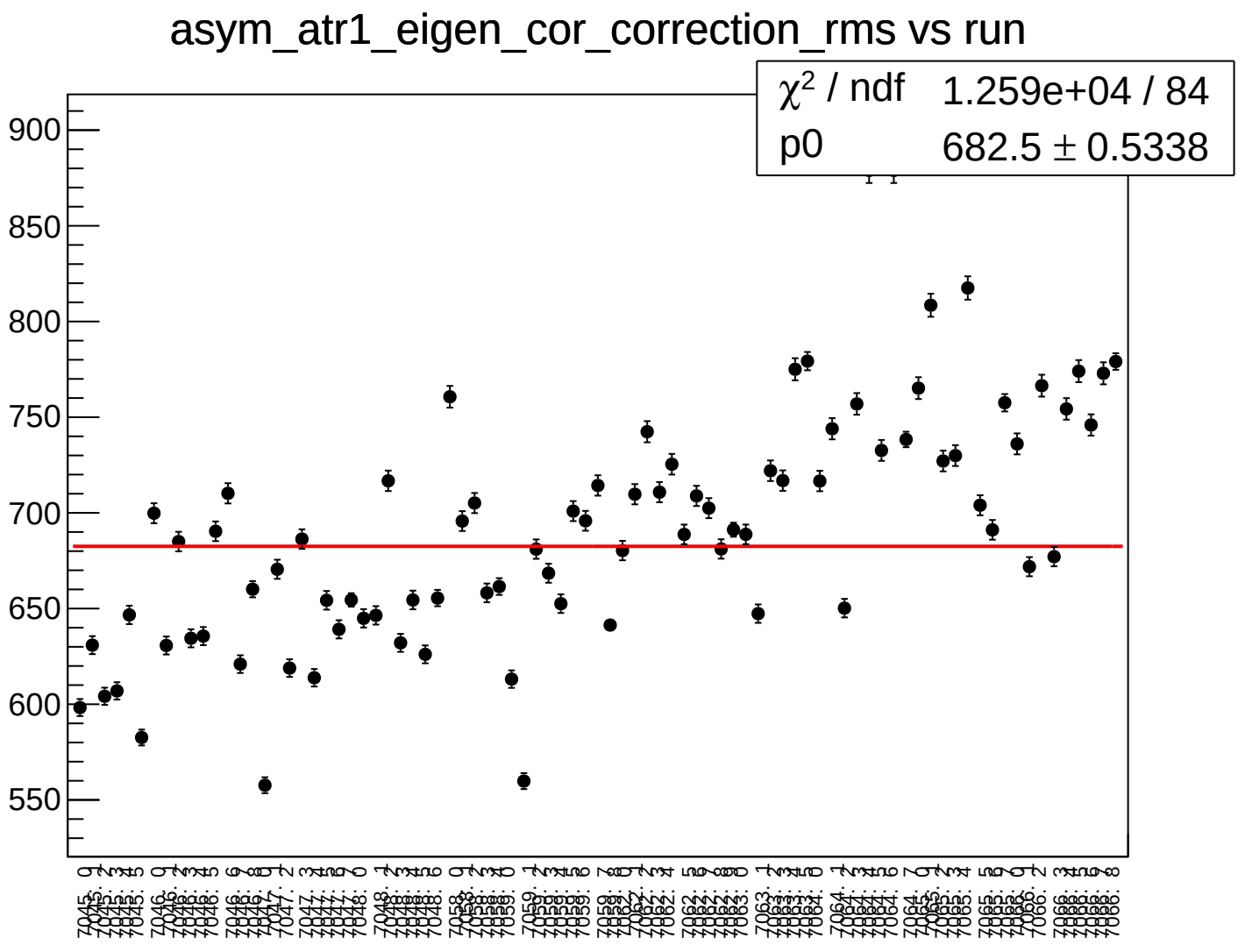

eigen_cor_asym_atr1_mean vs run
χ² / ndf 101 / 84
p0 −3862 ± 3002
×10³
100
50
0
−50
−100
pull
Entries 85
Mean −509.5
Std Dev 0
3
2
1
0
−1
−2

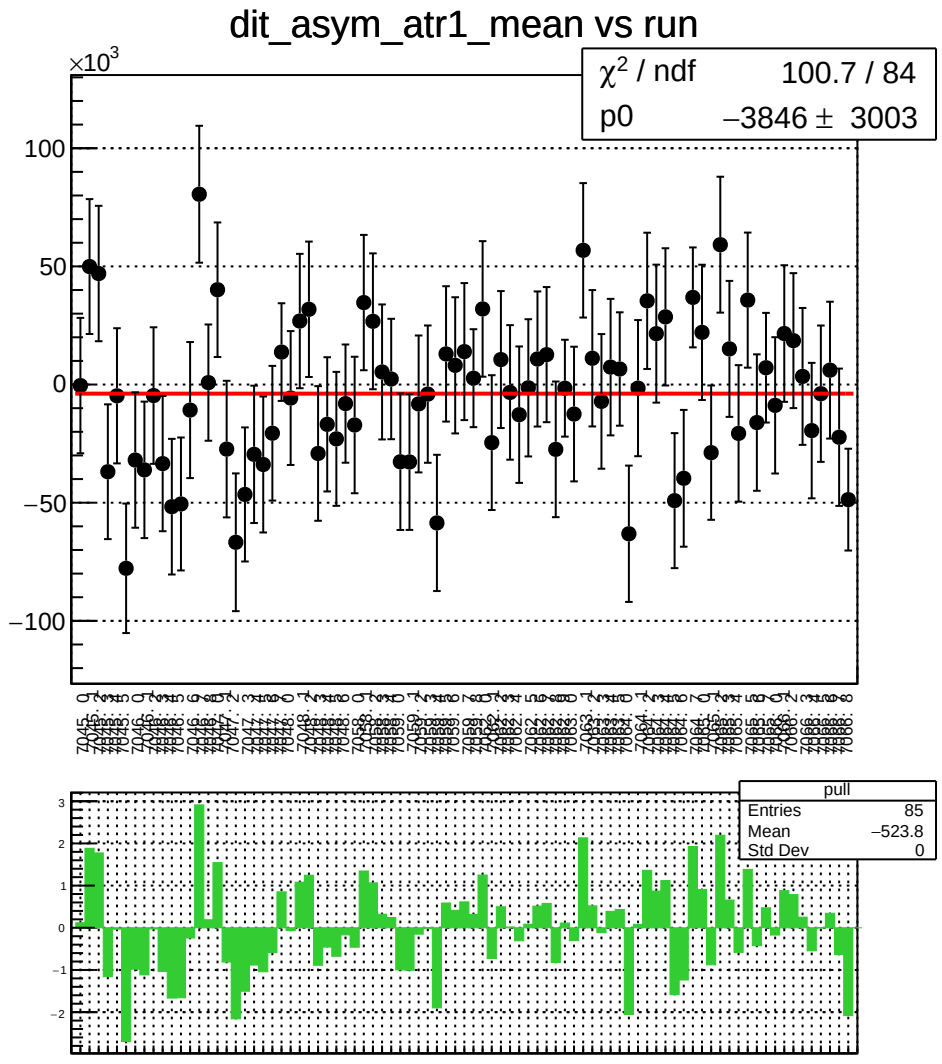

pull1D
Entries 85
Mean −0.007019
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

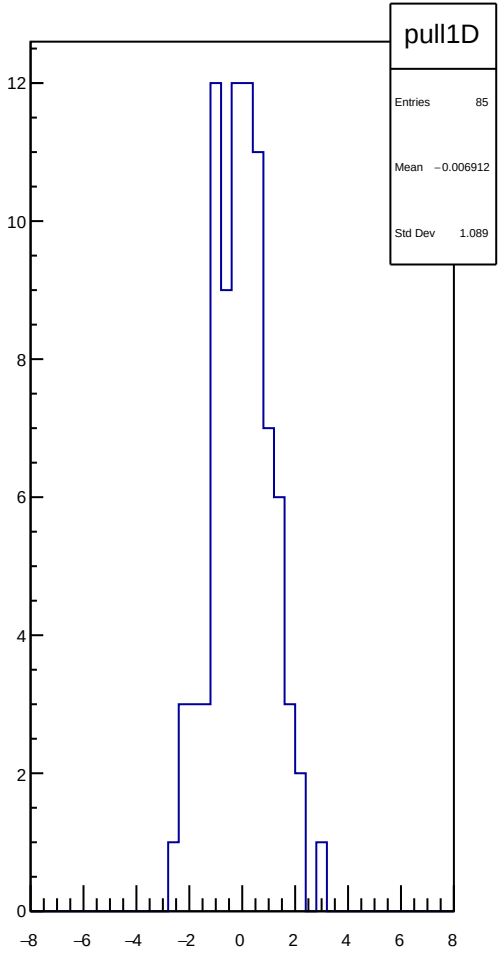

eigen_cor_asym_atr1_rms vs run
χ^2 / ndf 85.52 / 84
p0 2725 ± 2.123
2800
2780
2760
2740
2720
2700
2680
2660
2640

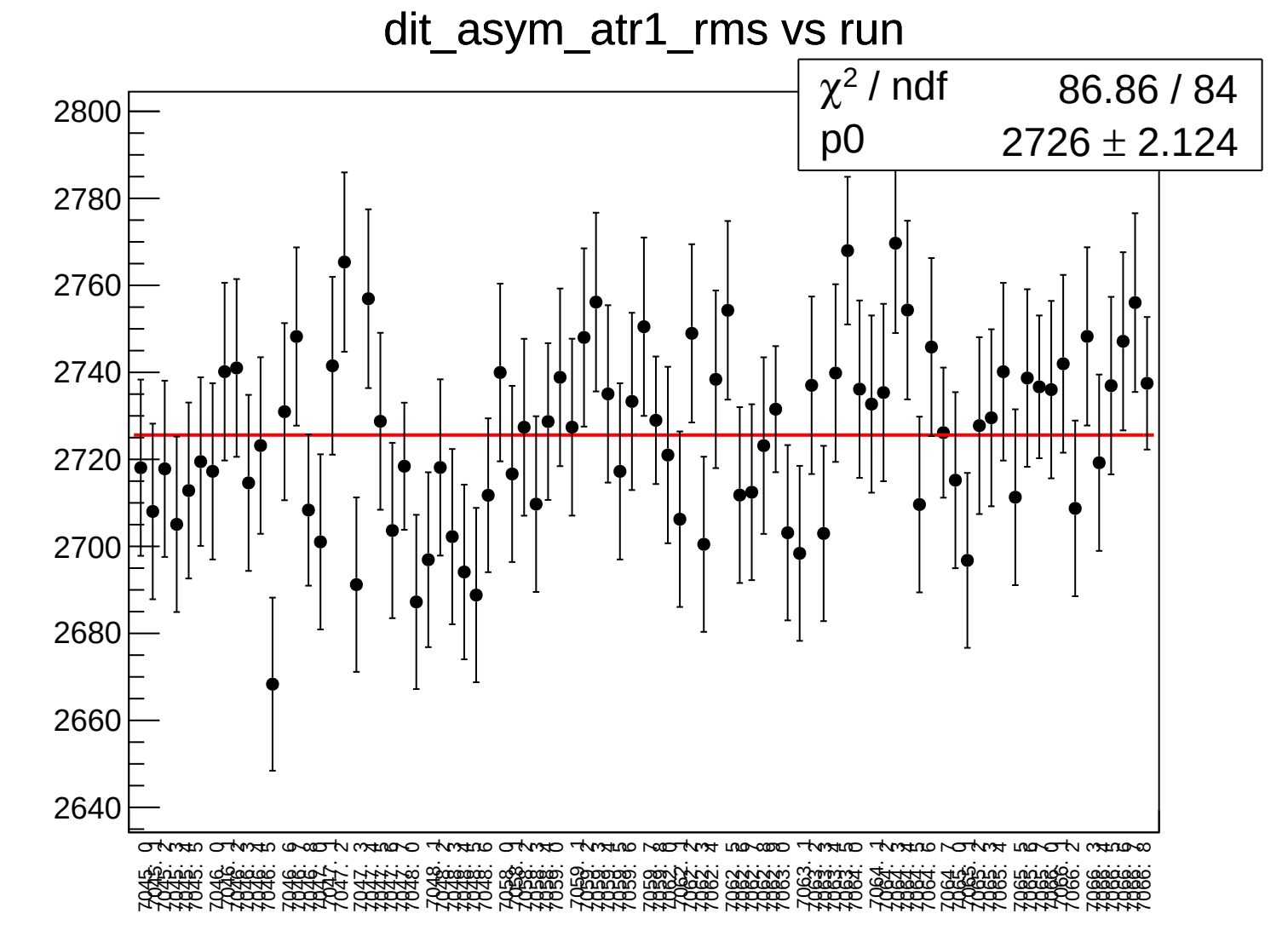

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 82.51 / 84
p0 −832.8 ± 755
pull
Entries 85
Mean 325.4
Std Dev 0

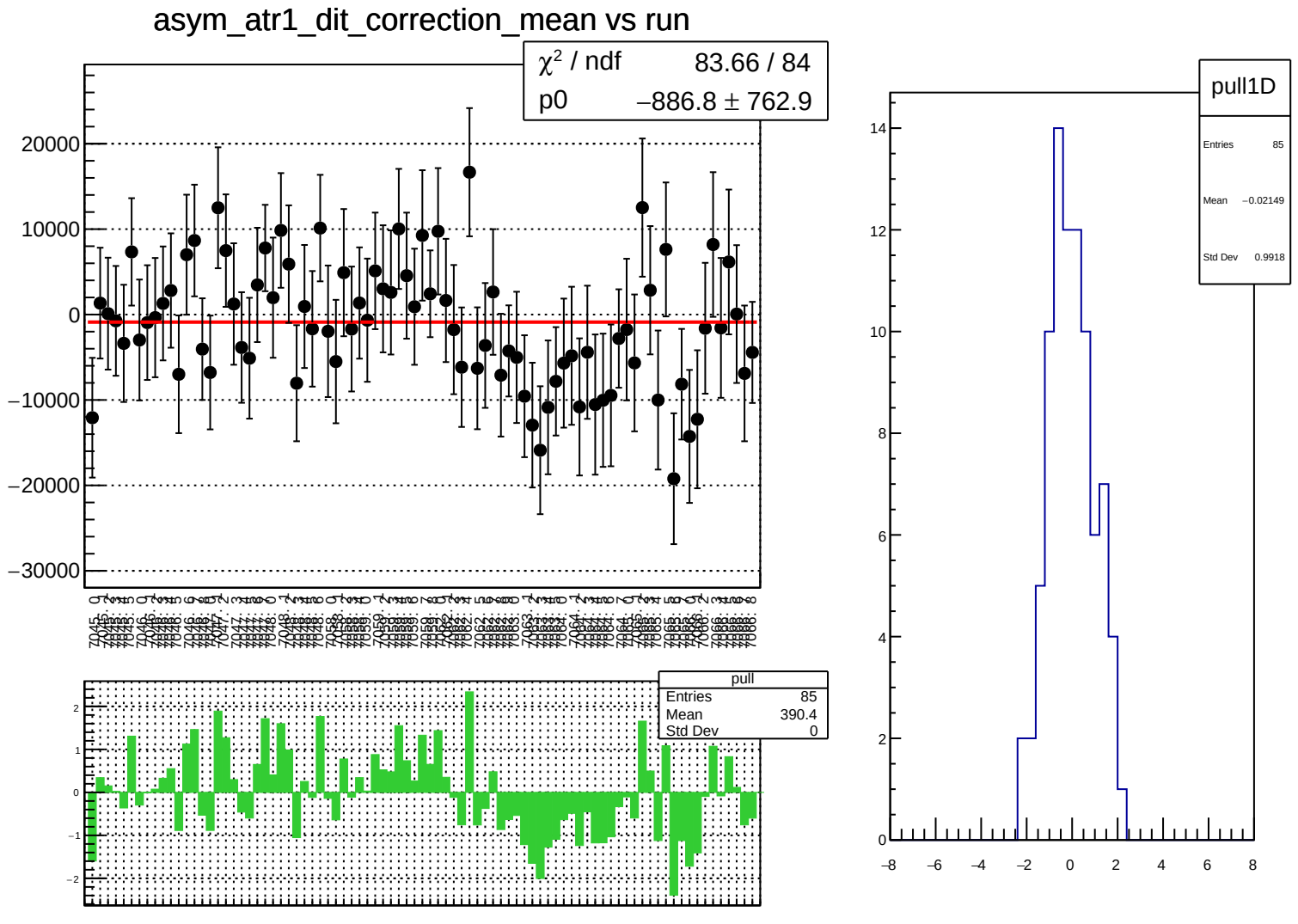

pull1D
Entries 85
Mean −0.02615
Std Dev 0.9849

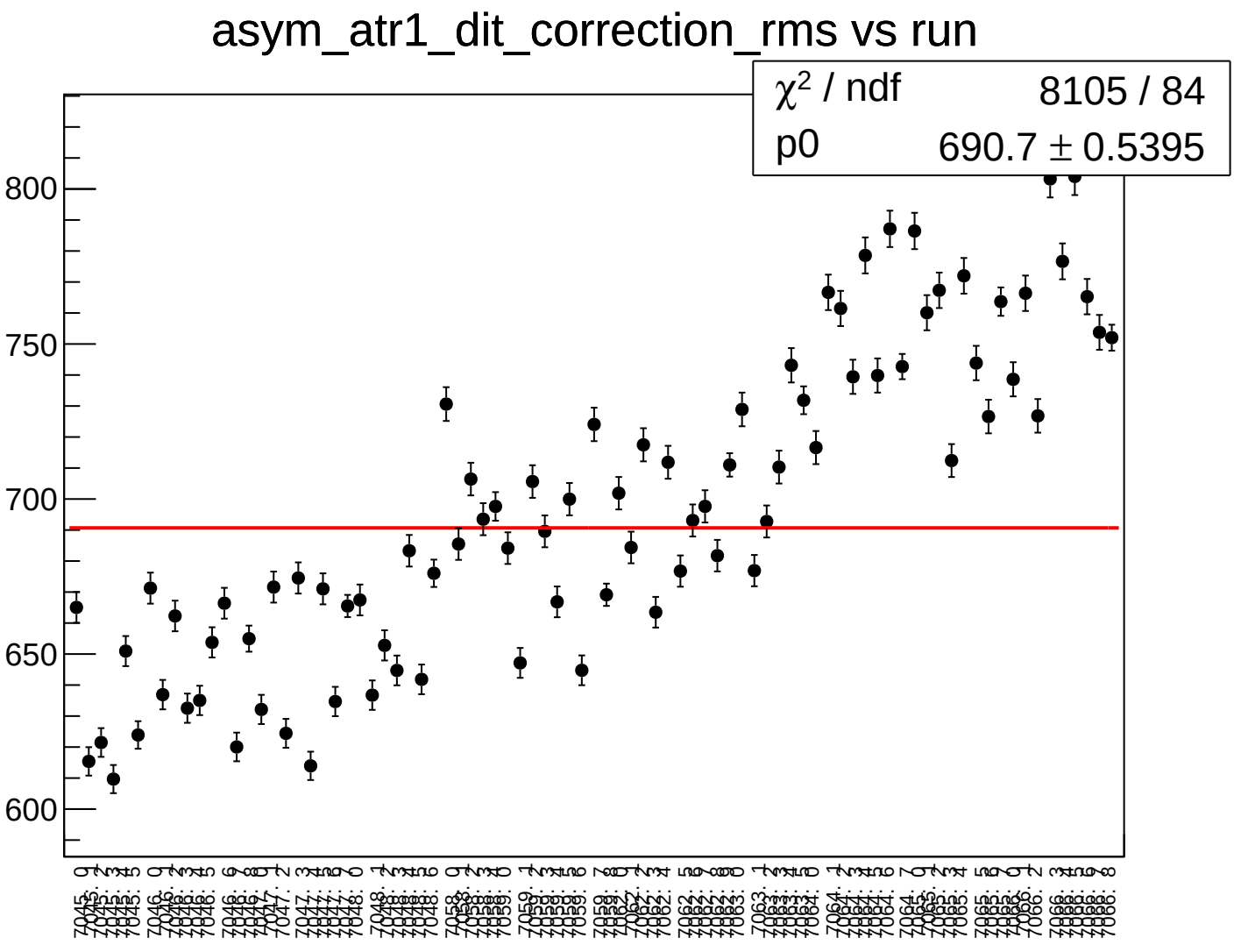

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.259e+04 / 84
p0 682.5 ± 0.5338
900
850
800
750
700
650
600
550

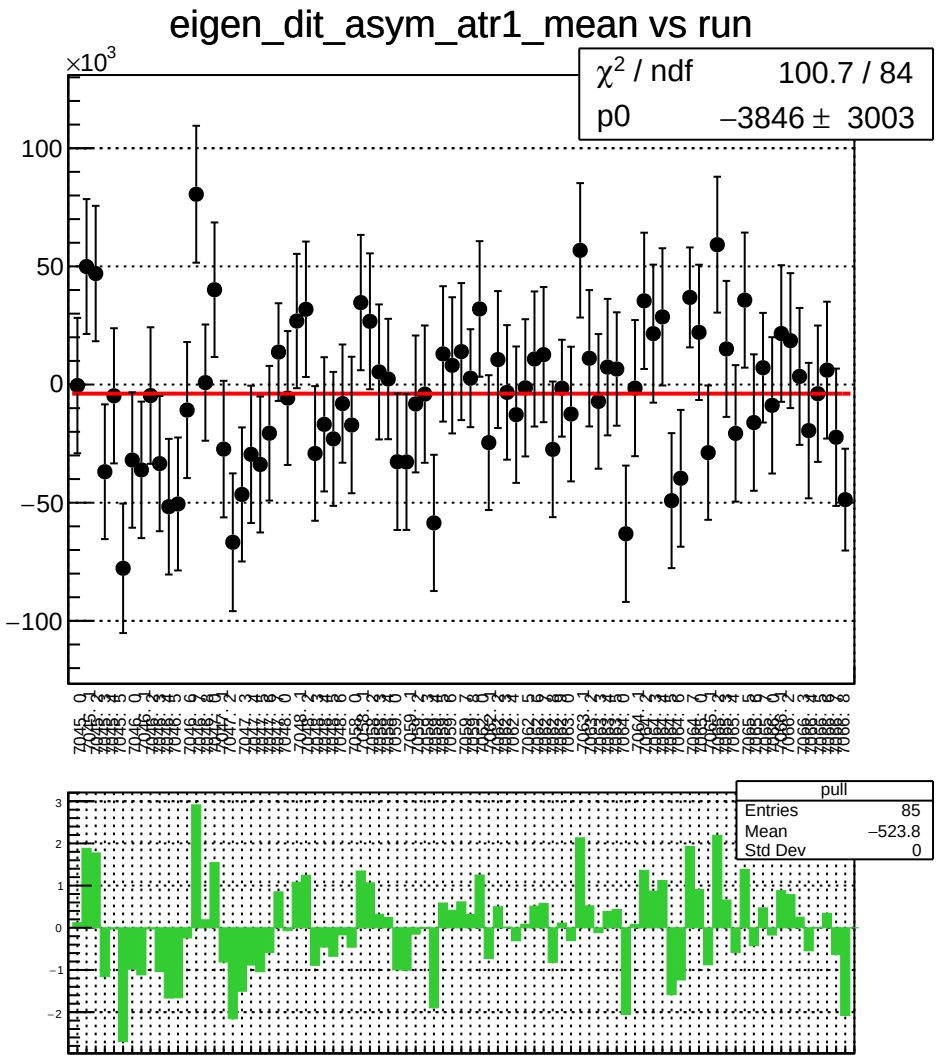

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −3846 ± 3003
100
50
0
−50
−100
pull
Entries 85
Mean −523.8
Std Dev 0
3
2
1
0
−1
−2

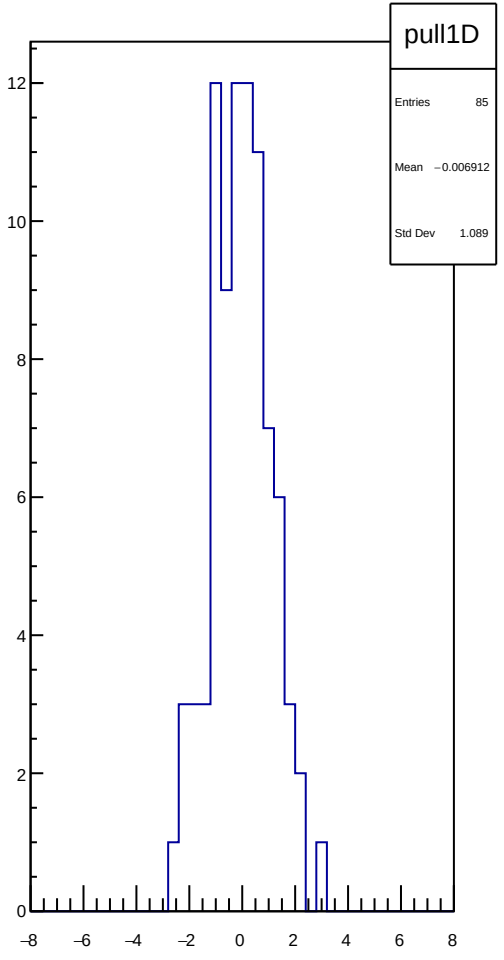

pull1D
Entries 85
Mean −0.006912
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

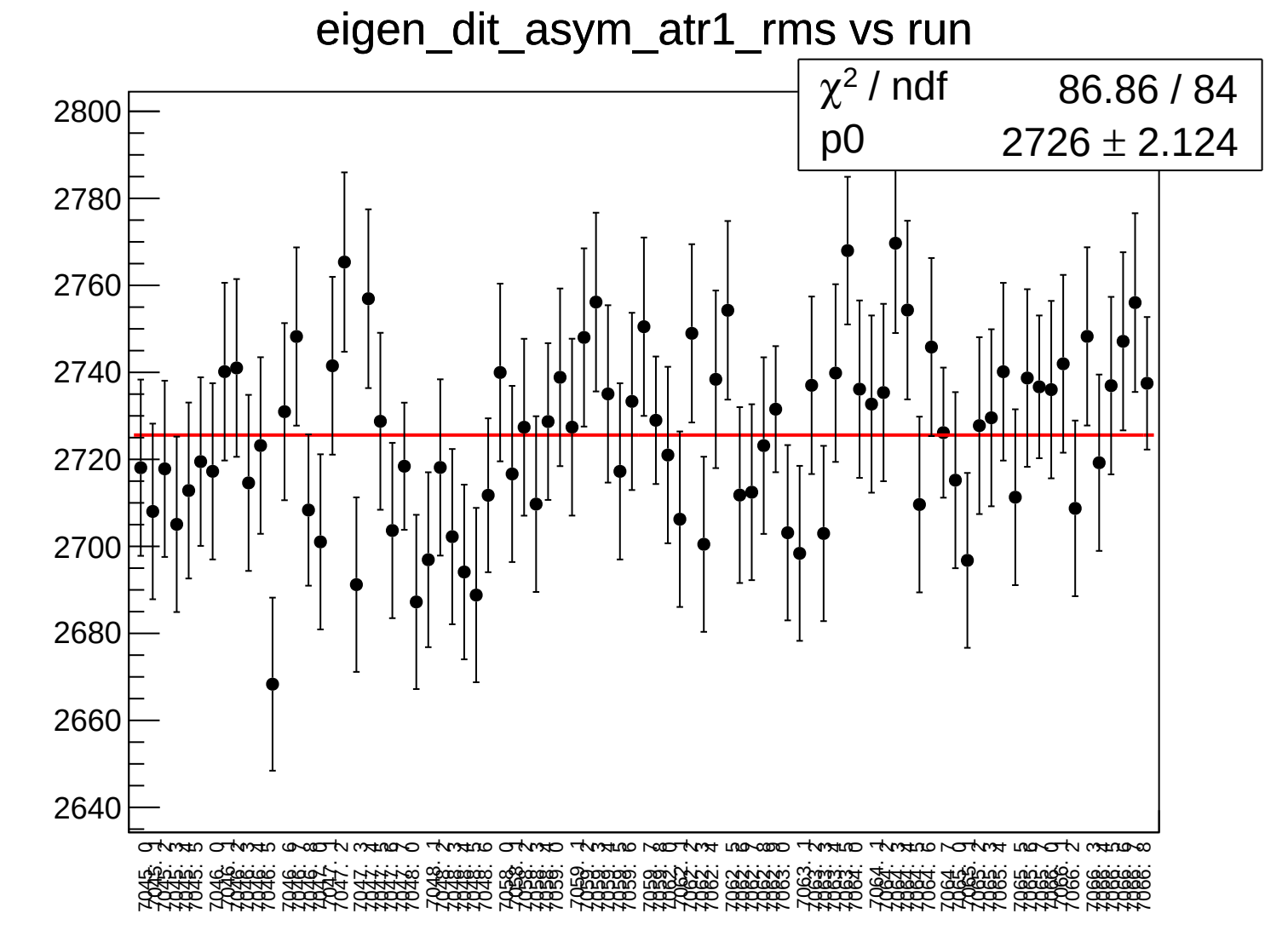

dit_asym_atr1_rms vs run
χ² / ndf 86.86 / 84
p0 2726 ± 2.124
2800
2780
2760
2740
2720
2700
2680
2660
2640

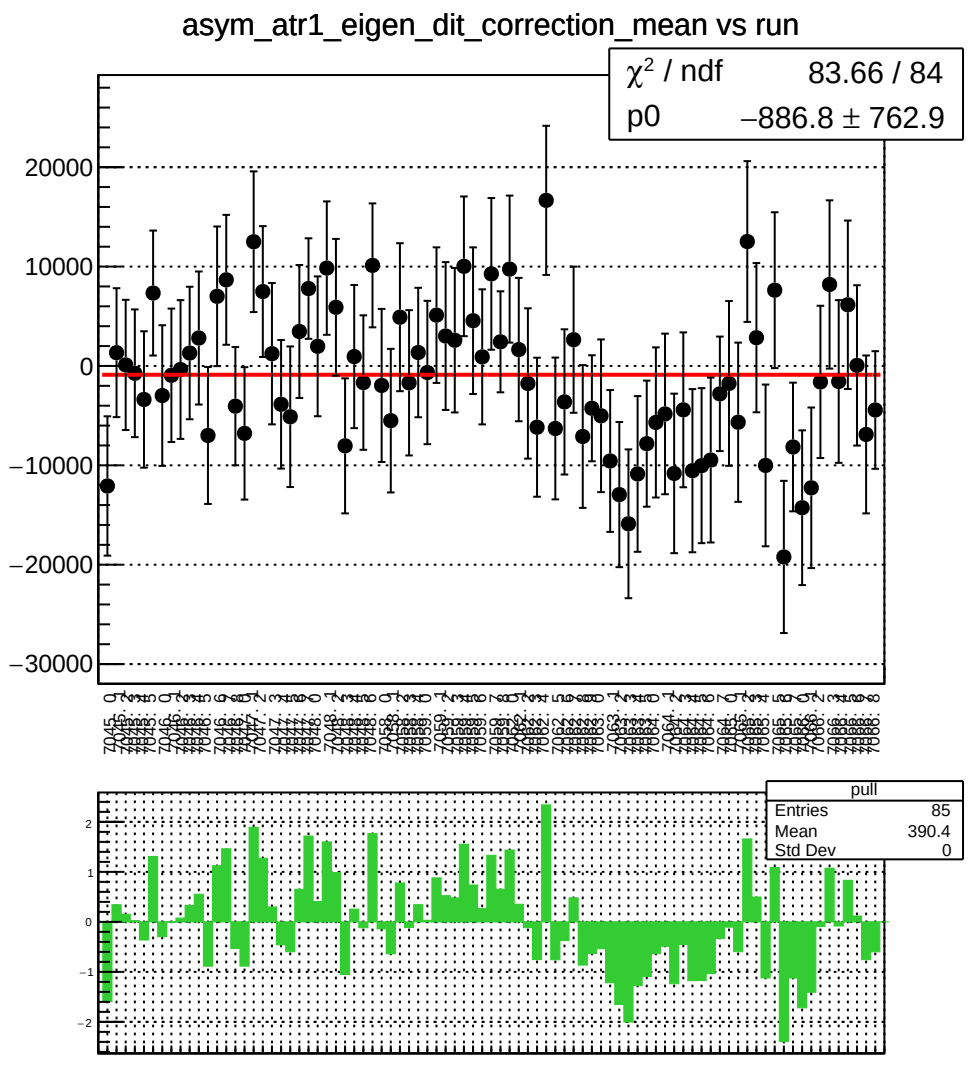

asym_atr1_dit_correction_mean vs run
χ² / ndf 83.66 / 84
p0 −886.8 ± 762.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 390.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.02149
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

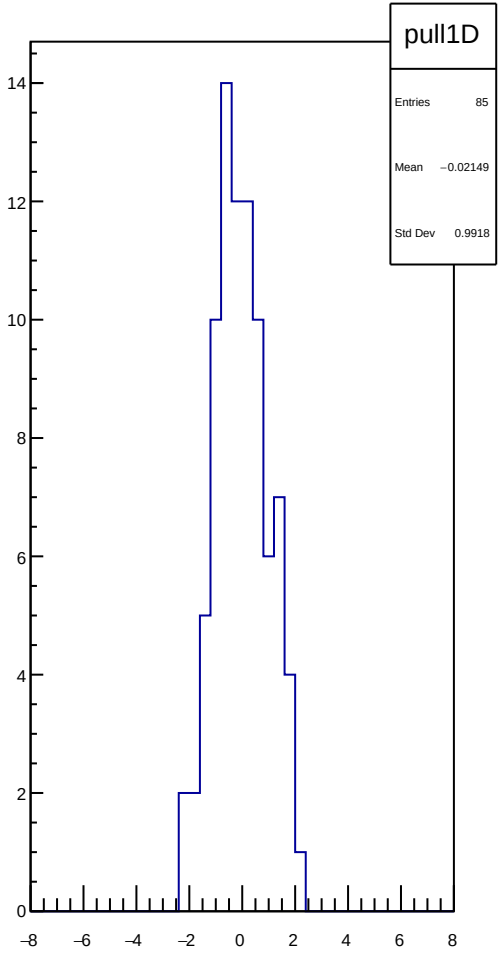

asym_atr1_dit_correction_rms vs run
χ² / ndf 8105 / 84
p0 690.7 ± 0.5395
800
750
700
650
600

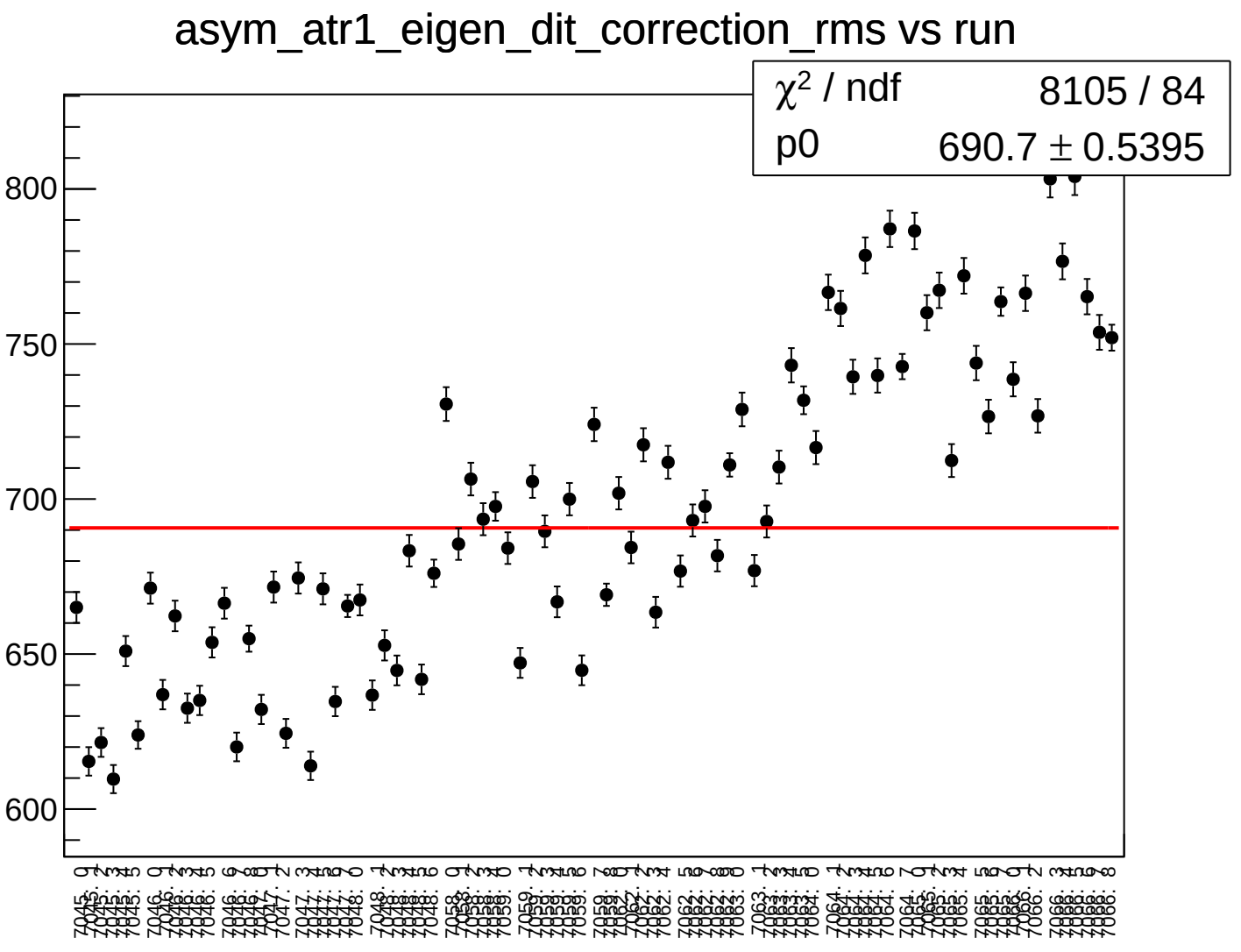

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 100.7 / 84
p0 −3846 ± 3003
100
50
0
−50
−100
pull
Entries 85
Mean −523.8
Std Dev 0
3
2
1
0
−1
−2

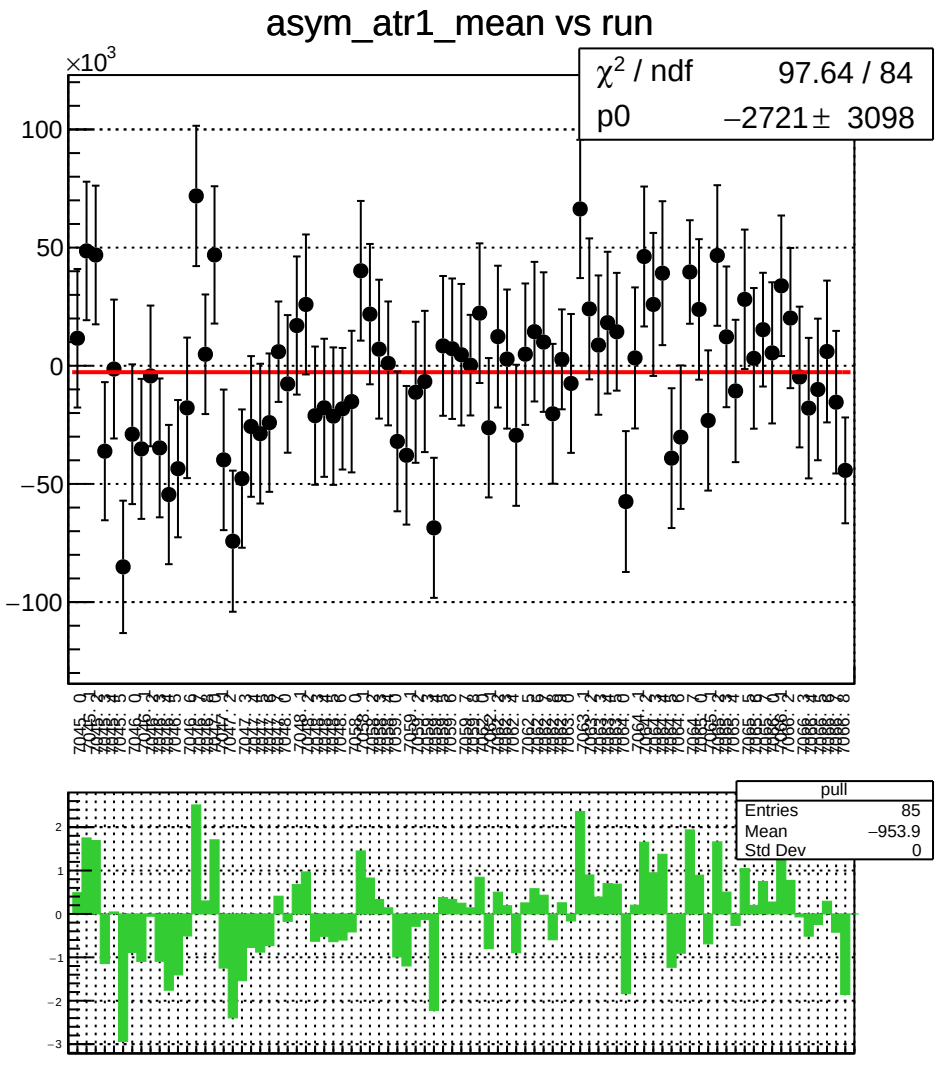

pull1D
Entries 85
Mean −0.006912
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

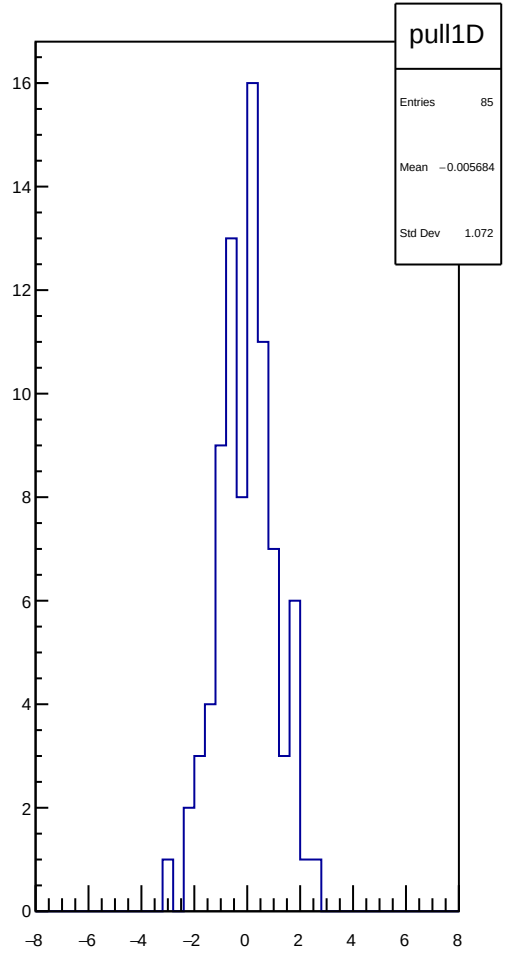

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 86.86 / 84
p0 2726 ± 2.124
2800
2780
2760
2740
2720
2700
2680
2660
2640

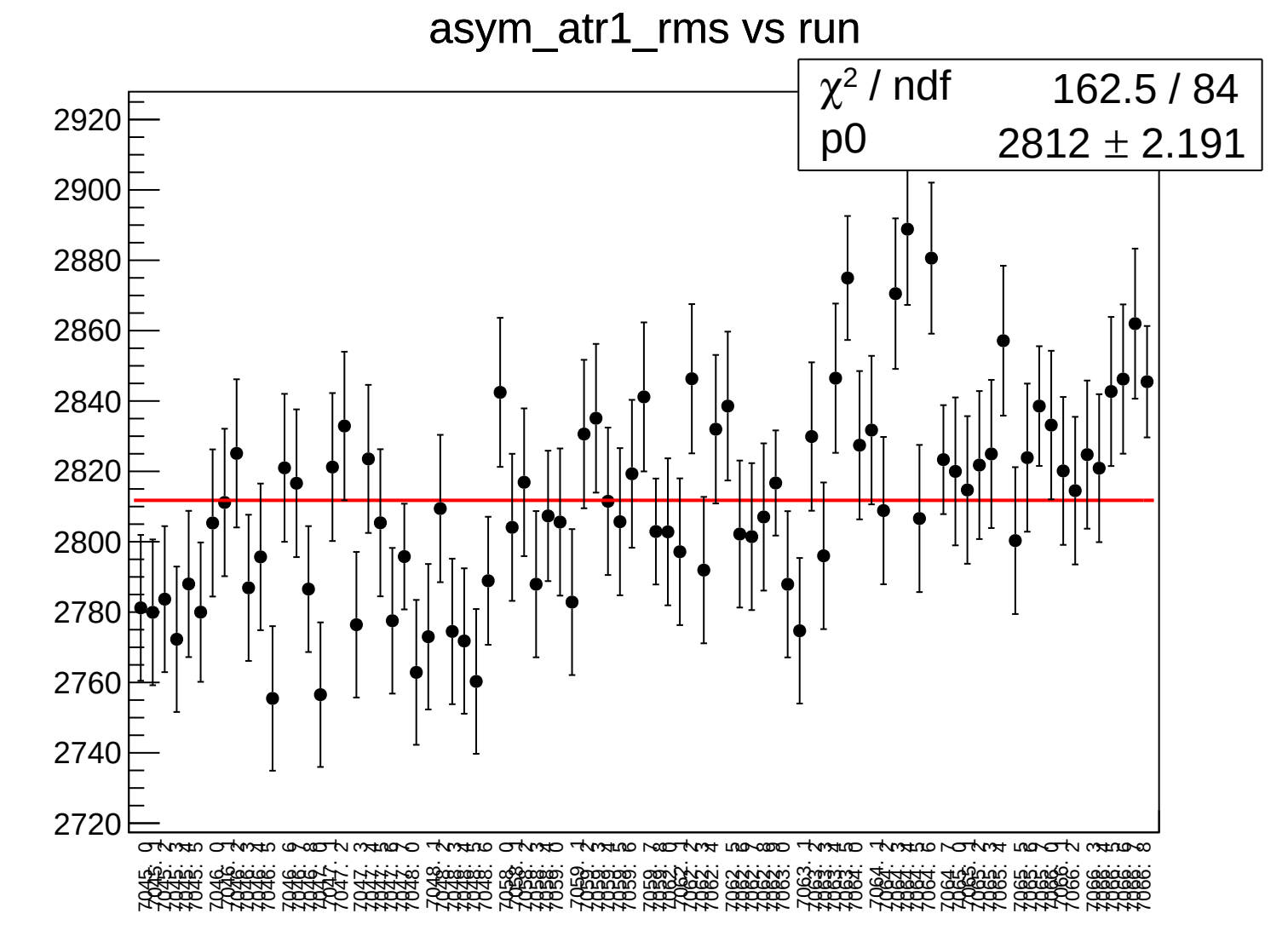

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 83.66 / 84
p0 −886.8 ± 762.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 390.4
Std Dev 0
2
1
0
−1
−2

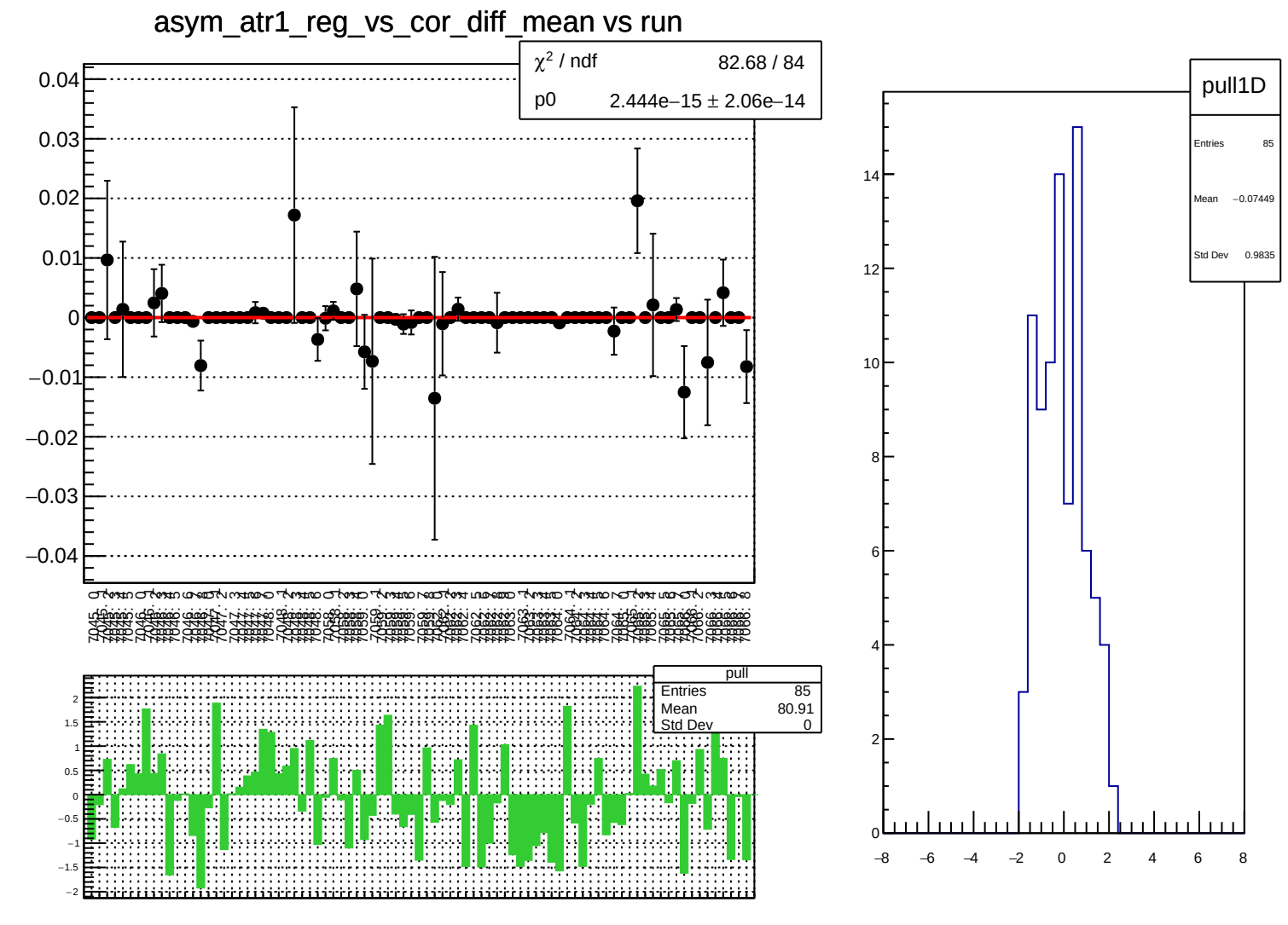

pull1D
Entries 85
Mean −0.02149
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

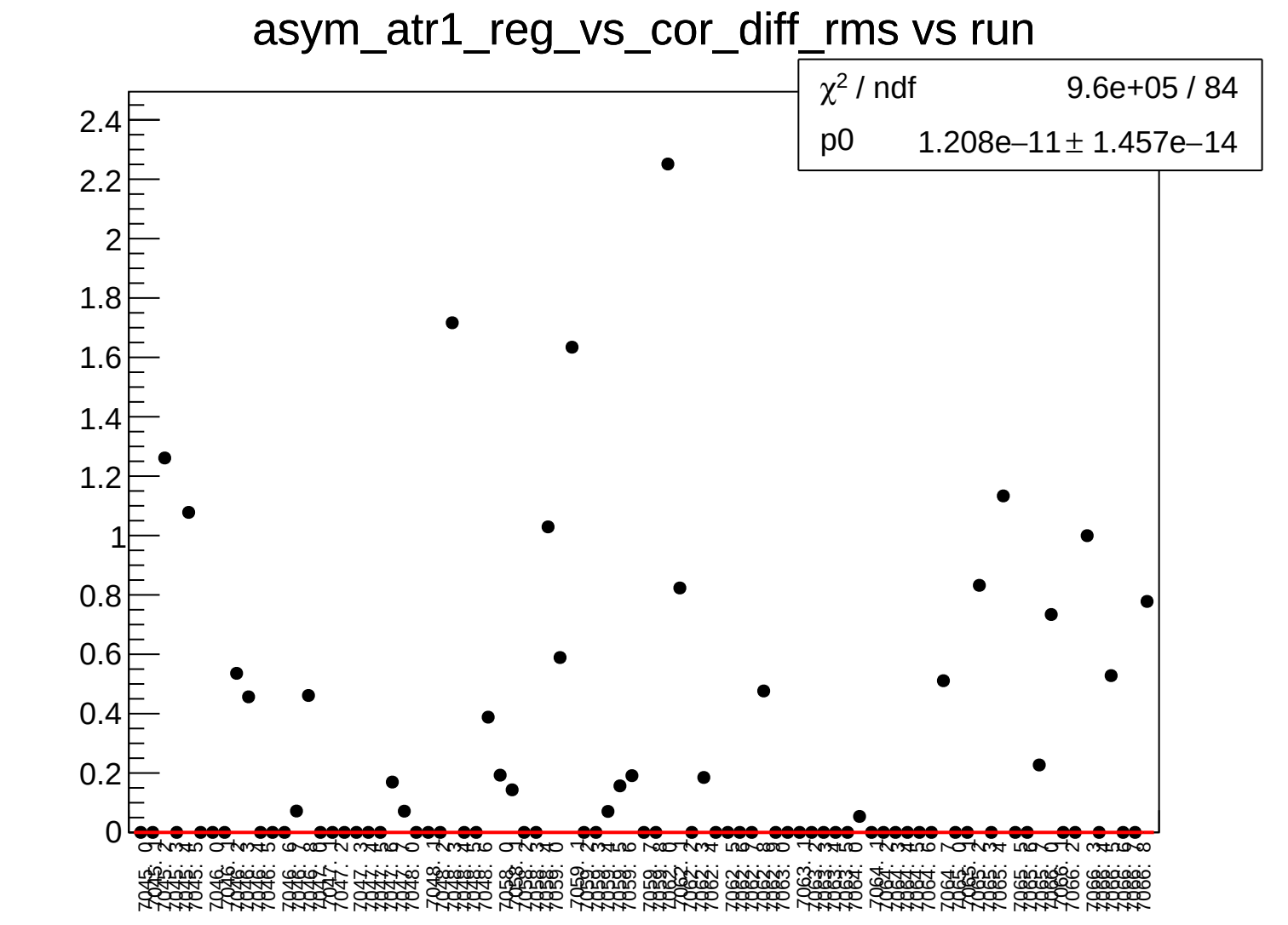

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 8105 / 84
p0 690.7 ± 0.5395
800
750
700
650
600

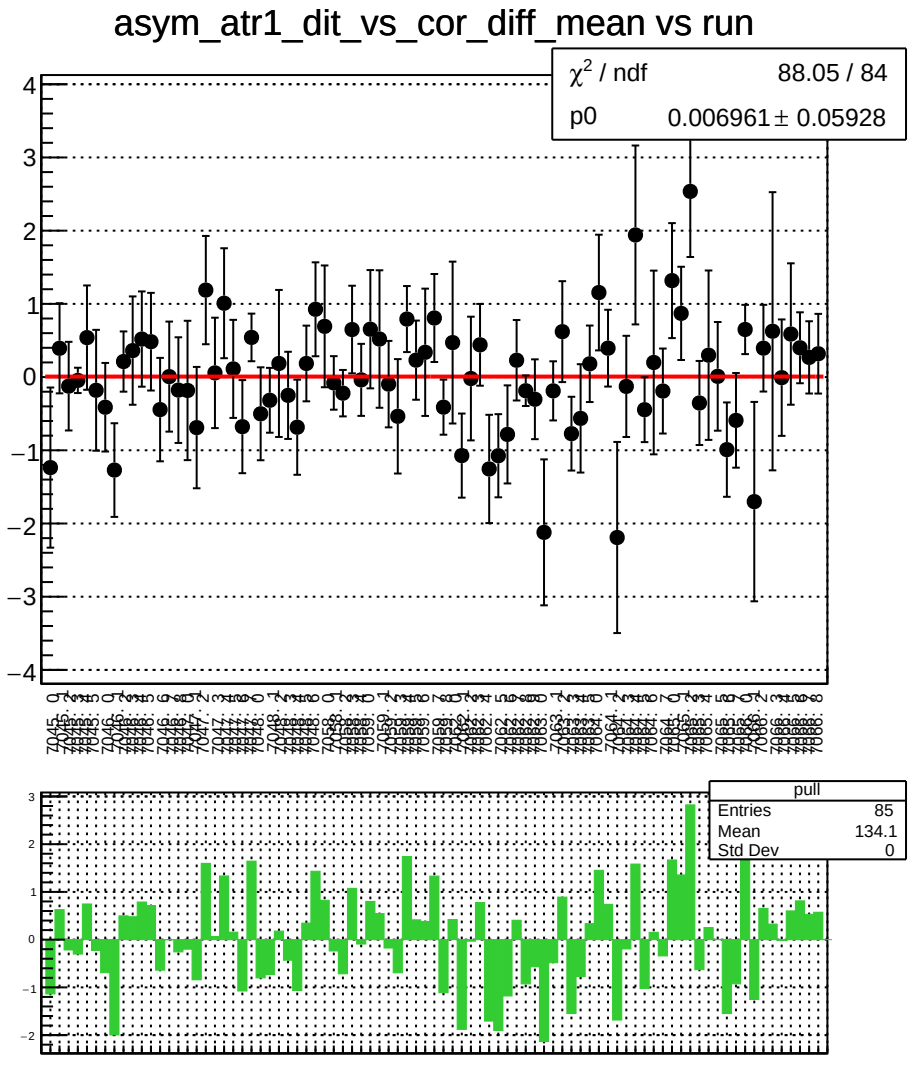

asym_atr1_mean vs run
×10^3
χ² / ndf 97.64 / 84
p0 −2721 ± 3098
100
50
0
−50
−100
pull
Entries 85
Mean −953.9
Std Dev 0
2
1
0
−1
−2
−3

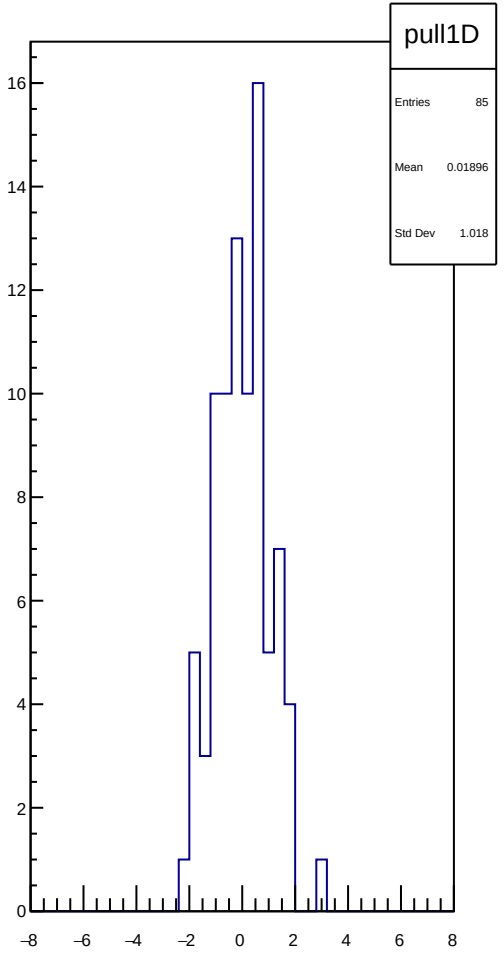

pull1D
Entries 85
Mean −0.005684
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

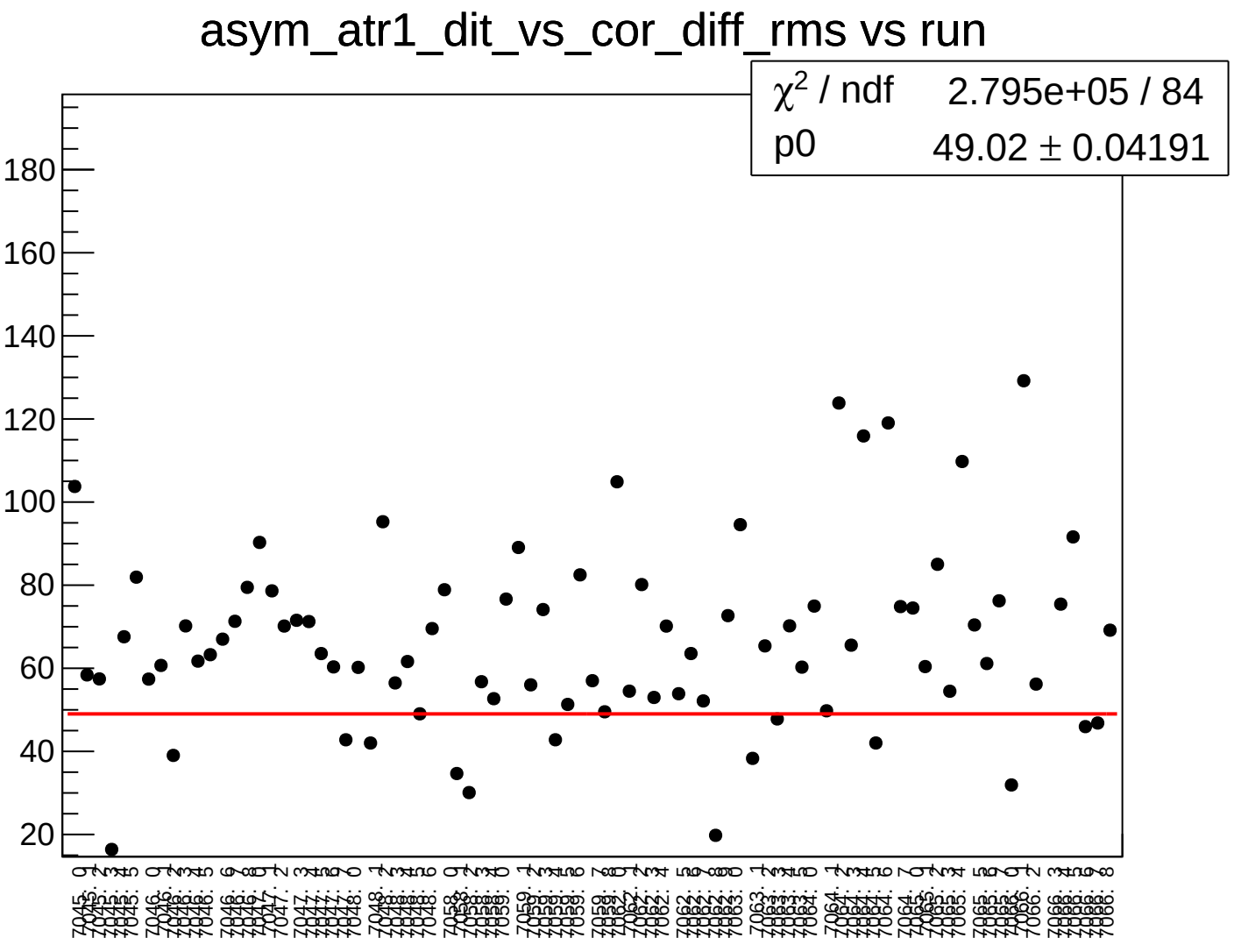

asym_atr1_rms vs run
χ^2 / ndf 162.5 / 84
p0 2812 ± 2.191
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

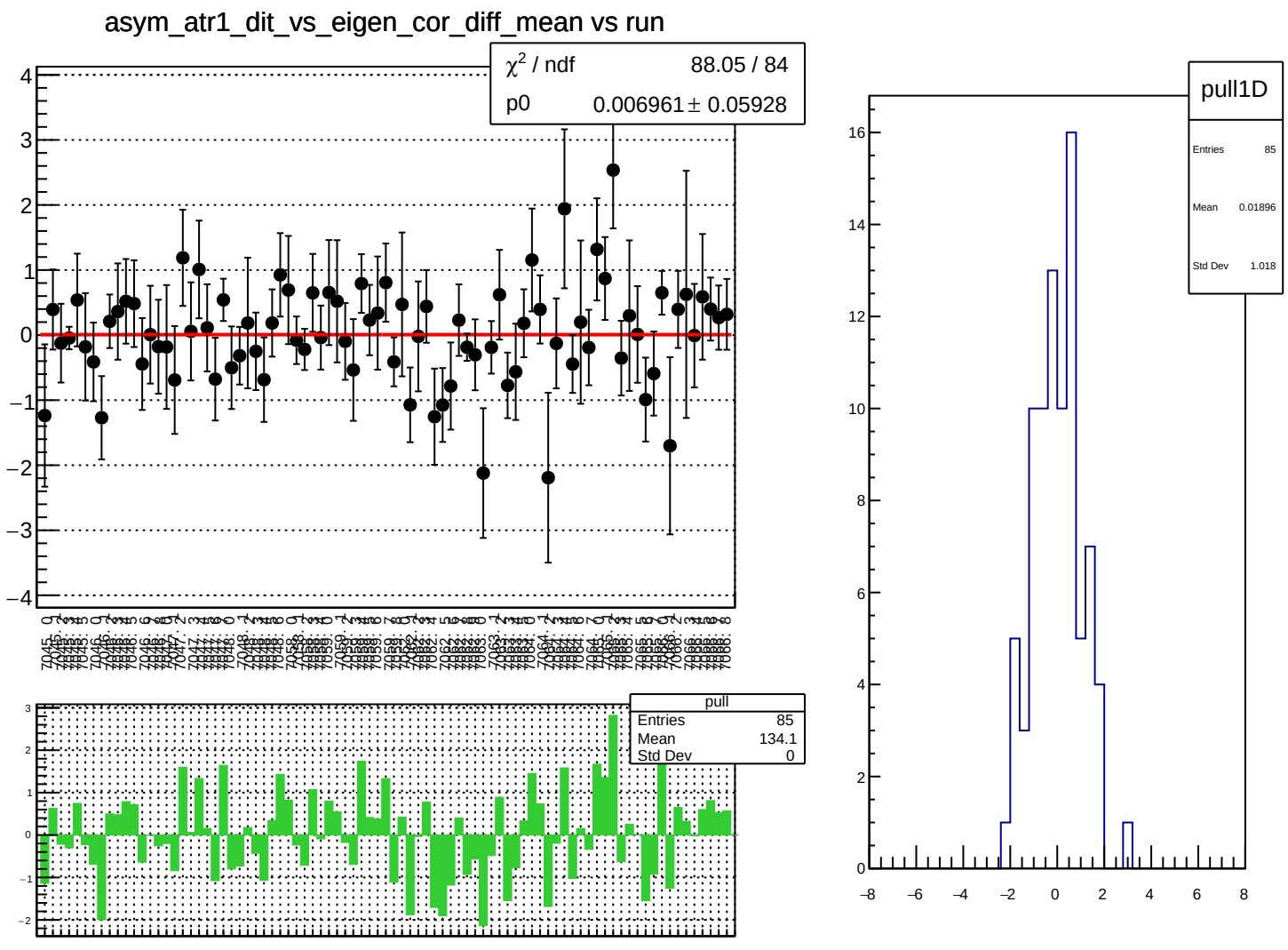

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 82.68 / 84
p0 2.444e−15 ± 2.06e−14
pull
Entries 85
Mean 80.91
Std Dev 0
pull1D
Entries 85
Mean −0.07449
Std Dev 0.9835

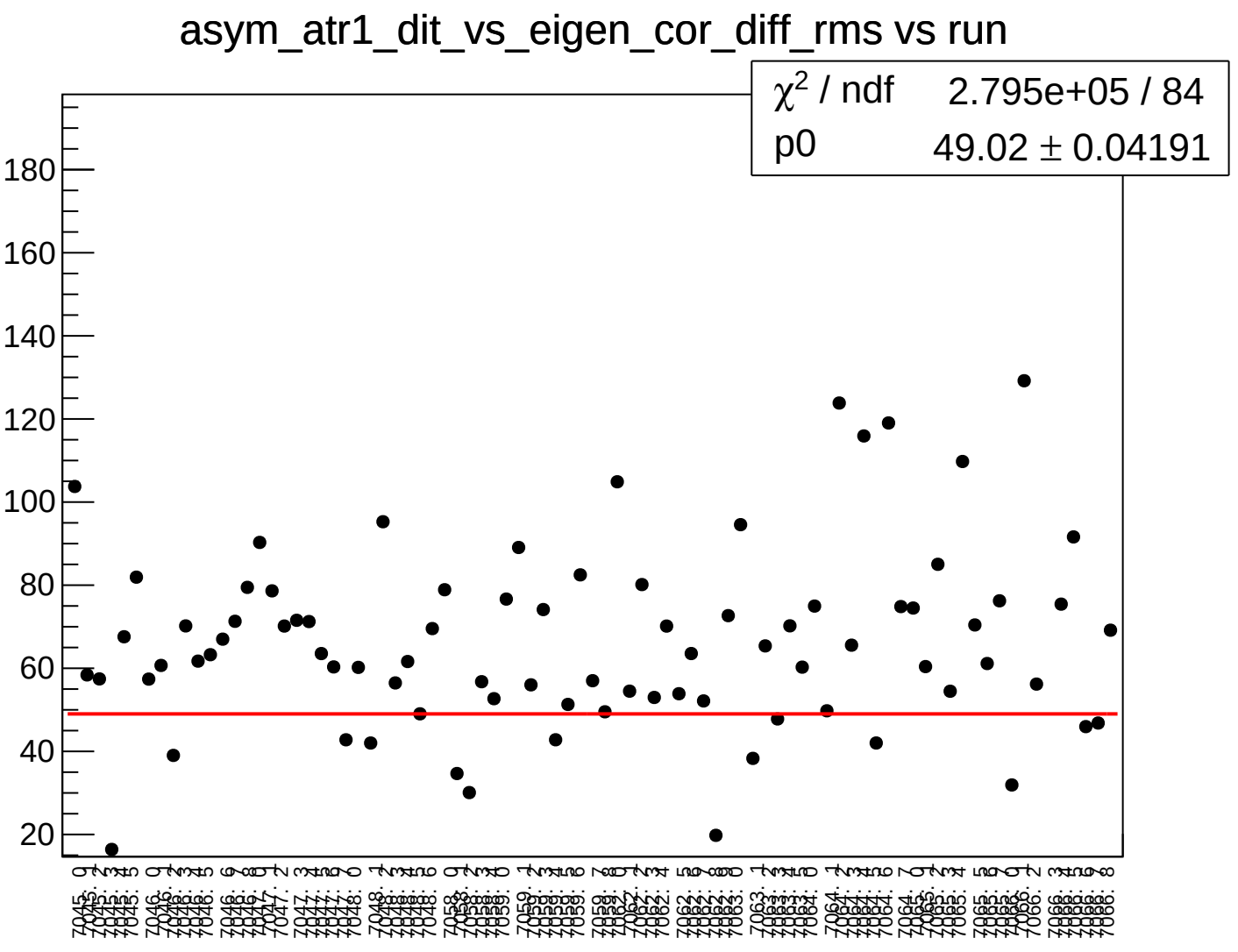

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.6e+05 / 84
p0 1.208e−11 ± 1.457e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

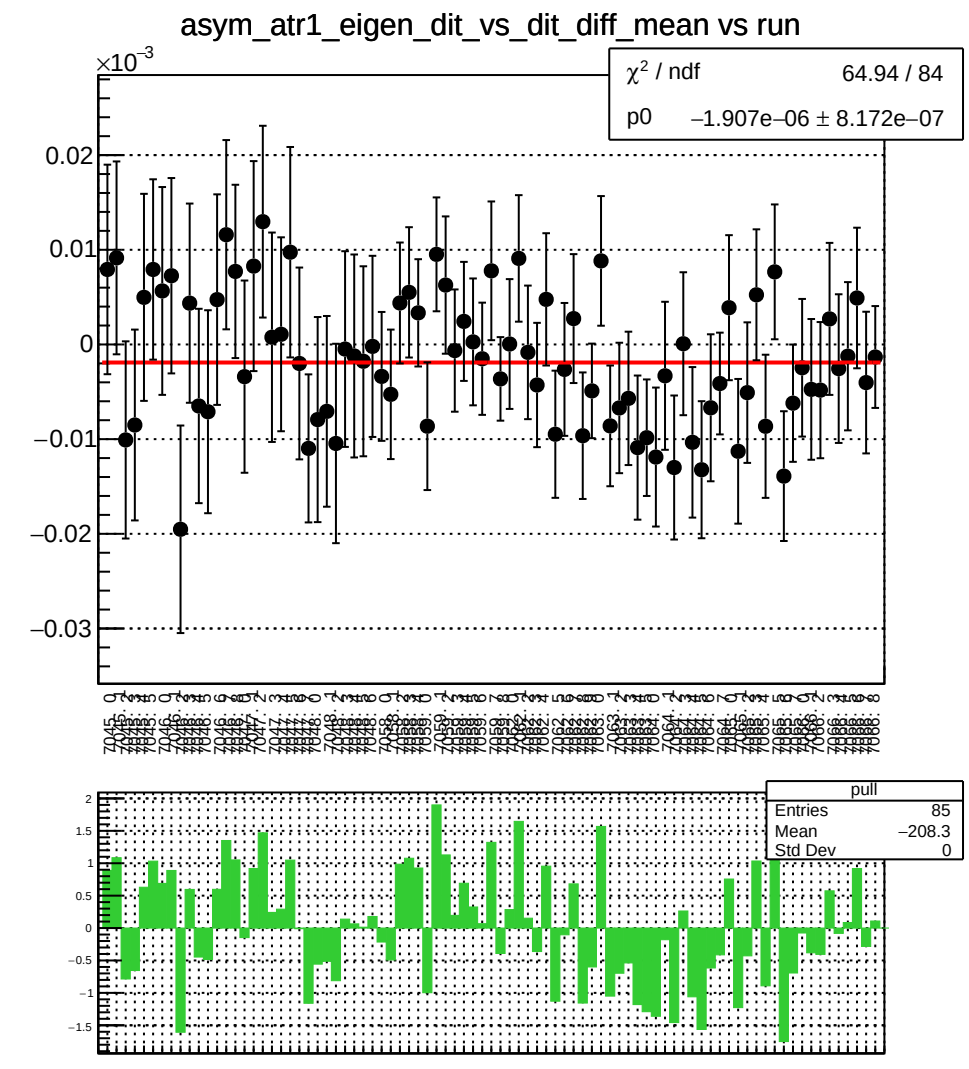

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 88.05 / 84
p0 0.006961 ± 0.05928
pull
Entries 85
Mean 134.1
Std Dev 0

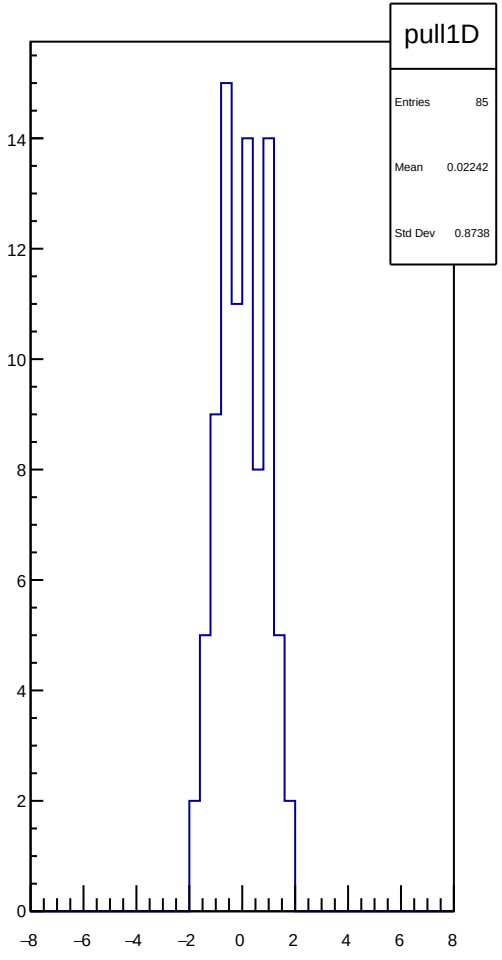

pull1D
Entries 85
Mean 0.01896
Std Dev 1.018

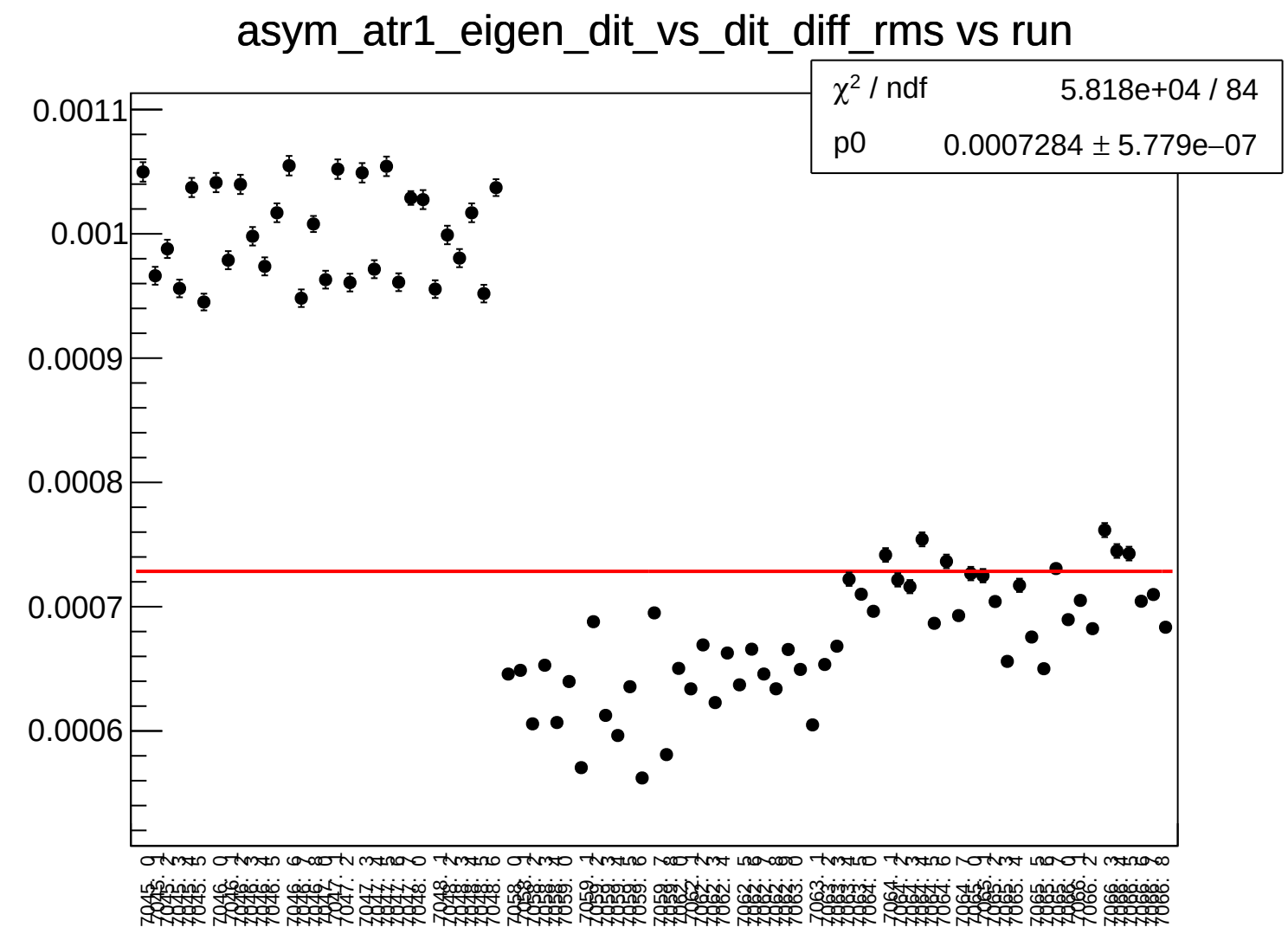

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.795e+05 / 84
p0 49.02 ± 0.04191
180
160
140
120
100
80
60
40
20

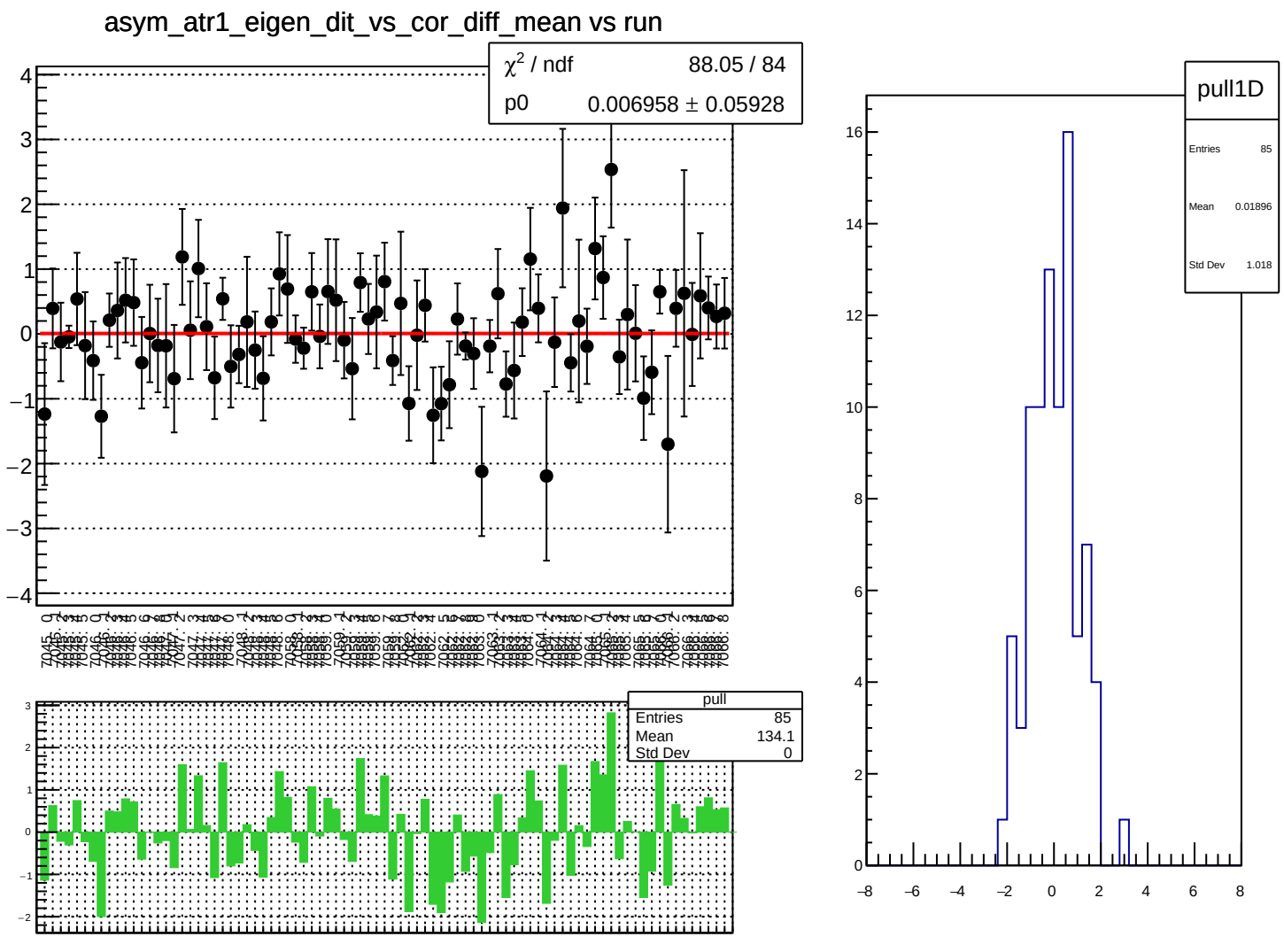

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.05 / 84
p0 0.006961 ± 0.05928
pull
Entries 85
Mean 134.1
Std Dev 0
pull1D
Entries 85
Mean 0.01896
Std Dev 1.018

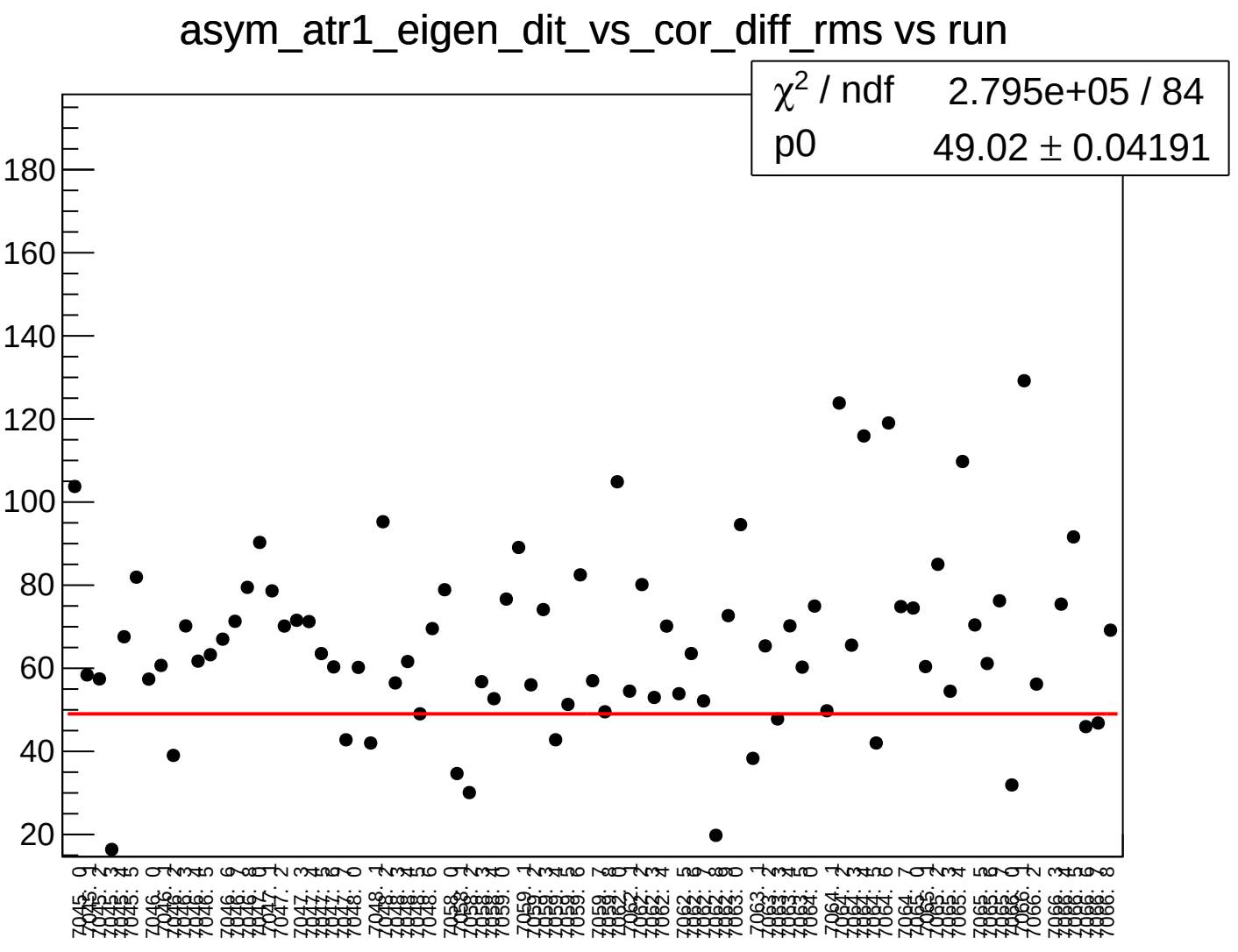

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.795e+05 / 84
p0 49.02 ± 0.04191
180
160
140
120
100
80
60
40
20

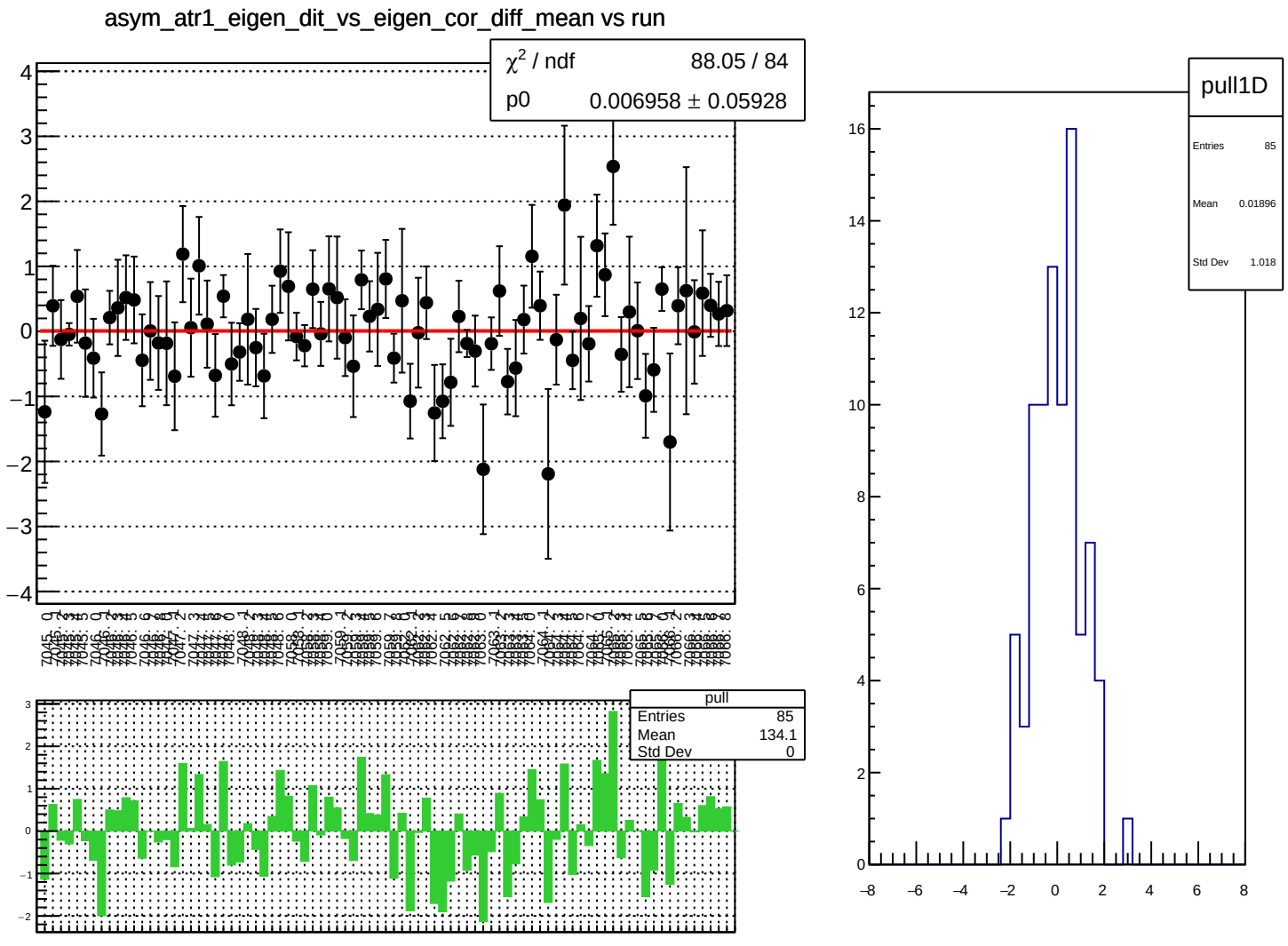

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.94 / 84
p0 −1.907e−06 ± 8.172e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −208.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

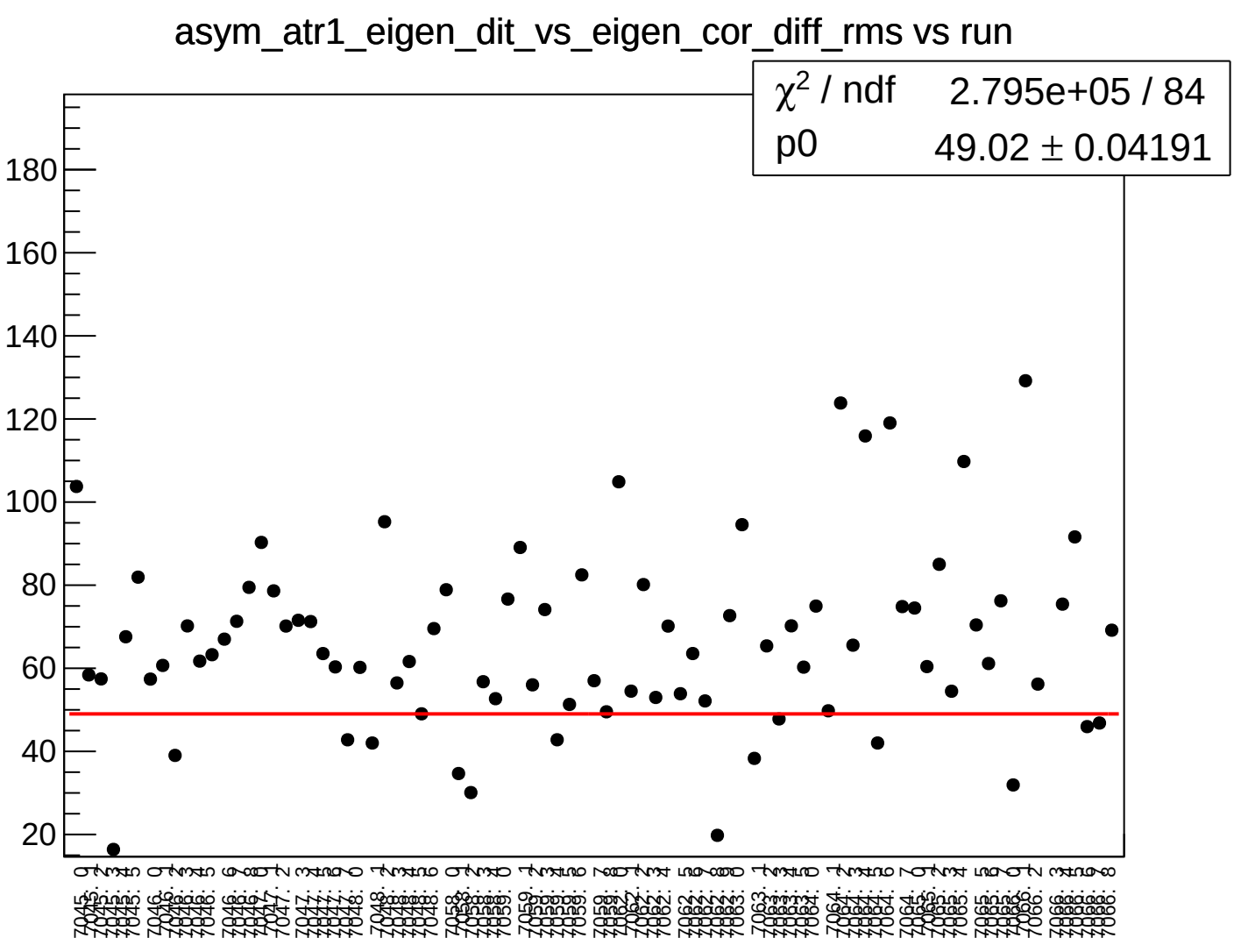

pull1D
Entries 85
Mean 0.02242
Std Dev 0.8738
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

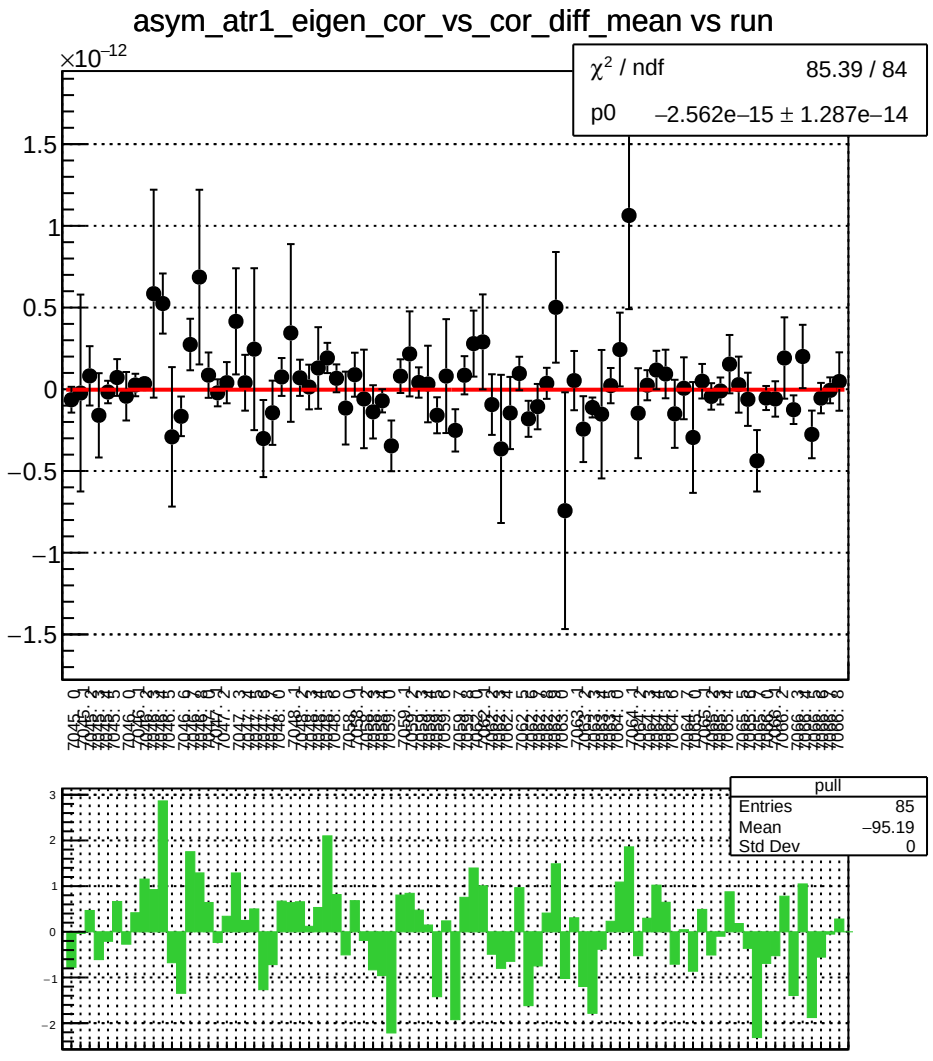

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.818e+04 / 84
p0 0.0007284 ± 5.779e−07
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

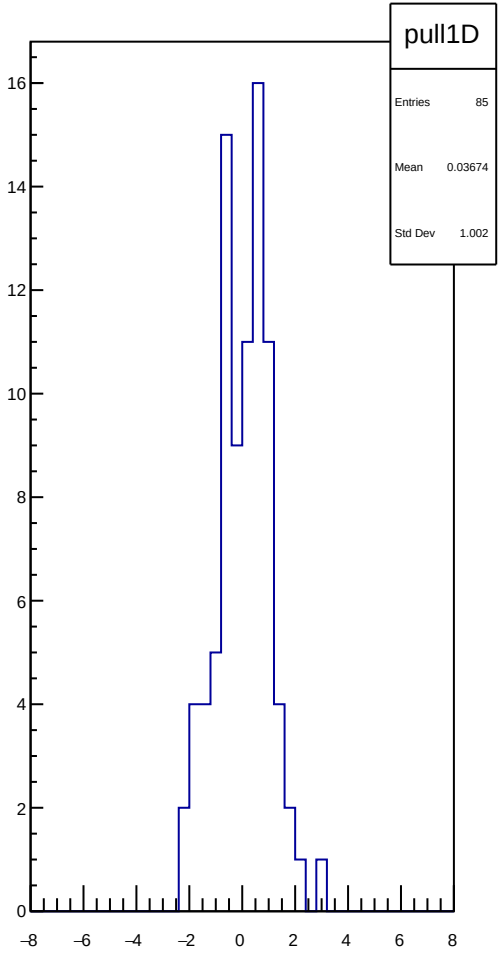

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.05 / 84
p0 0.006958 ± 0.05928
pull
Entries 85
Mean 134.1
Std Dev 0
pull1D
Entries 85
Mean 0.01896
Std Dev 1.018

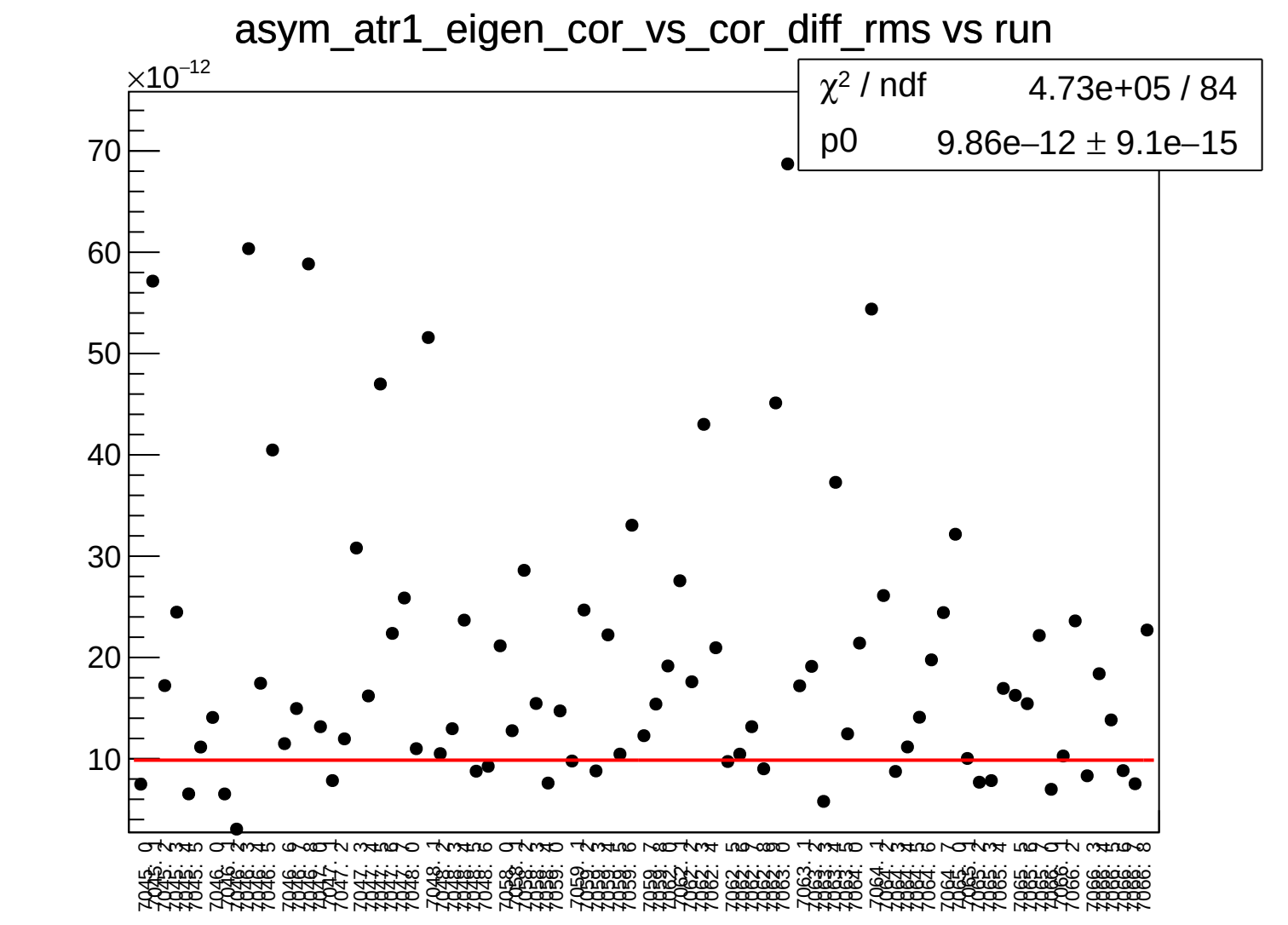

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.795e+05 / 84
p0 49.02 ± 0.04191
180
160
140
120
100
80
60
40
20

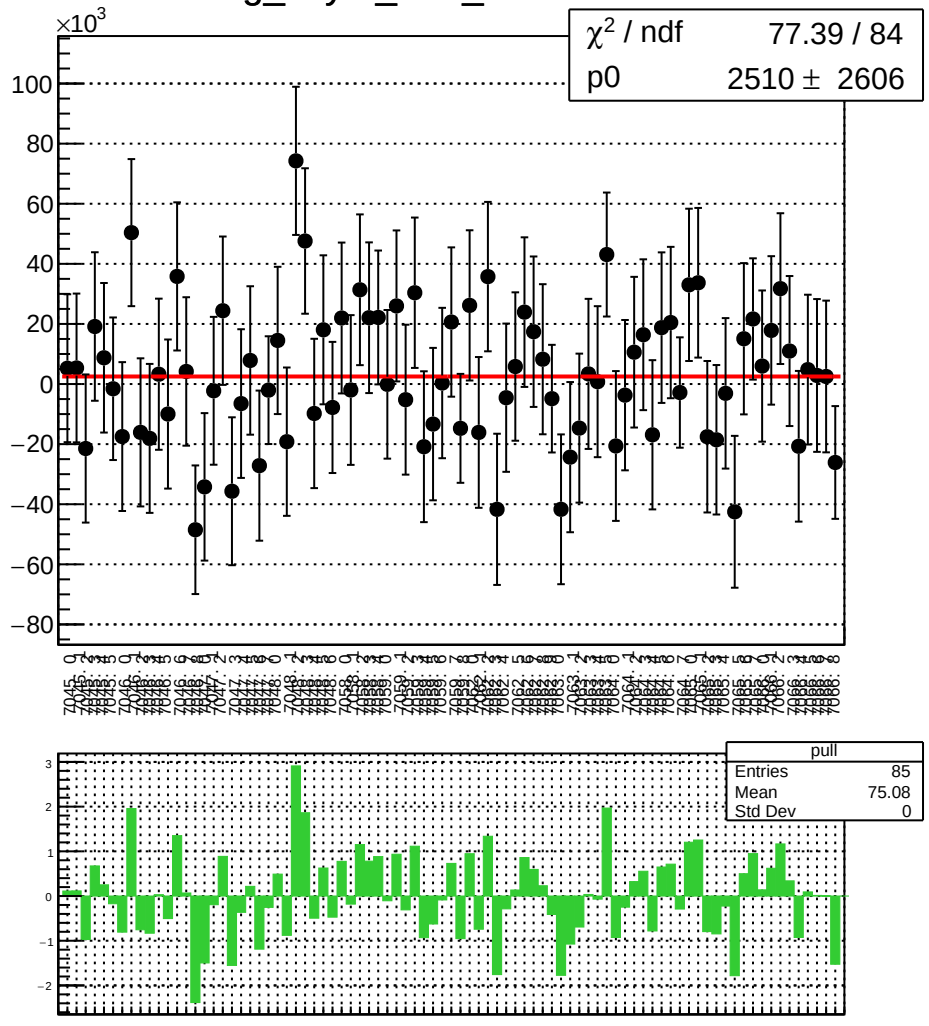

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.05 / 84
p0 0.006958 ± 0.05928
pull
Entries 85
Mean 134.1
Std Dev 0
pull1D
Entries 85
Mean 0.01896
Std Dev 1.018

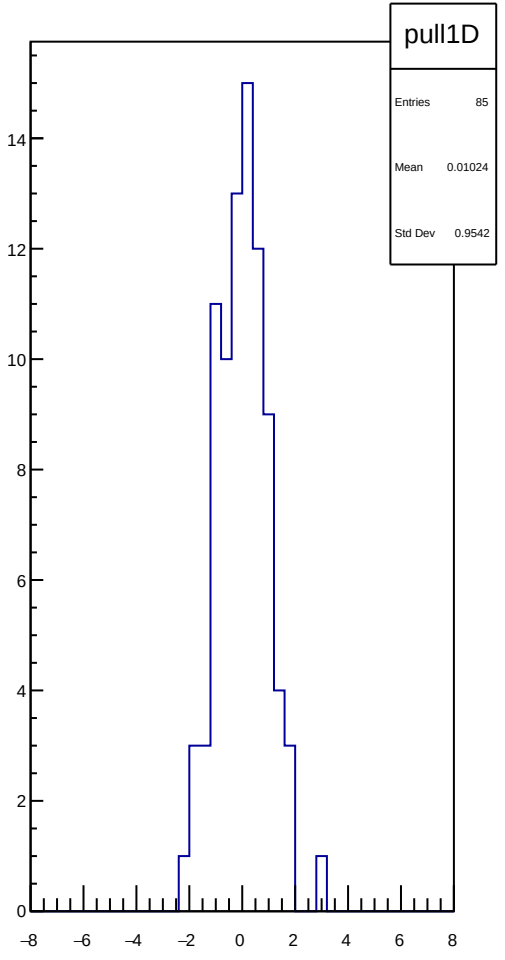

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.795e+05 / 84
p0 49.02 ± 0.04191
180
160
140
120
100
80
60
40
20

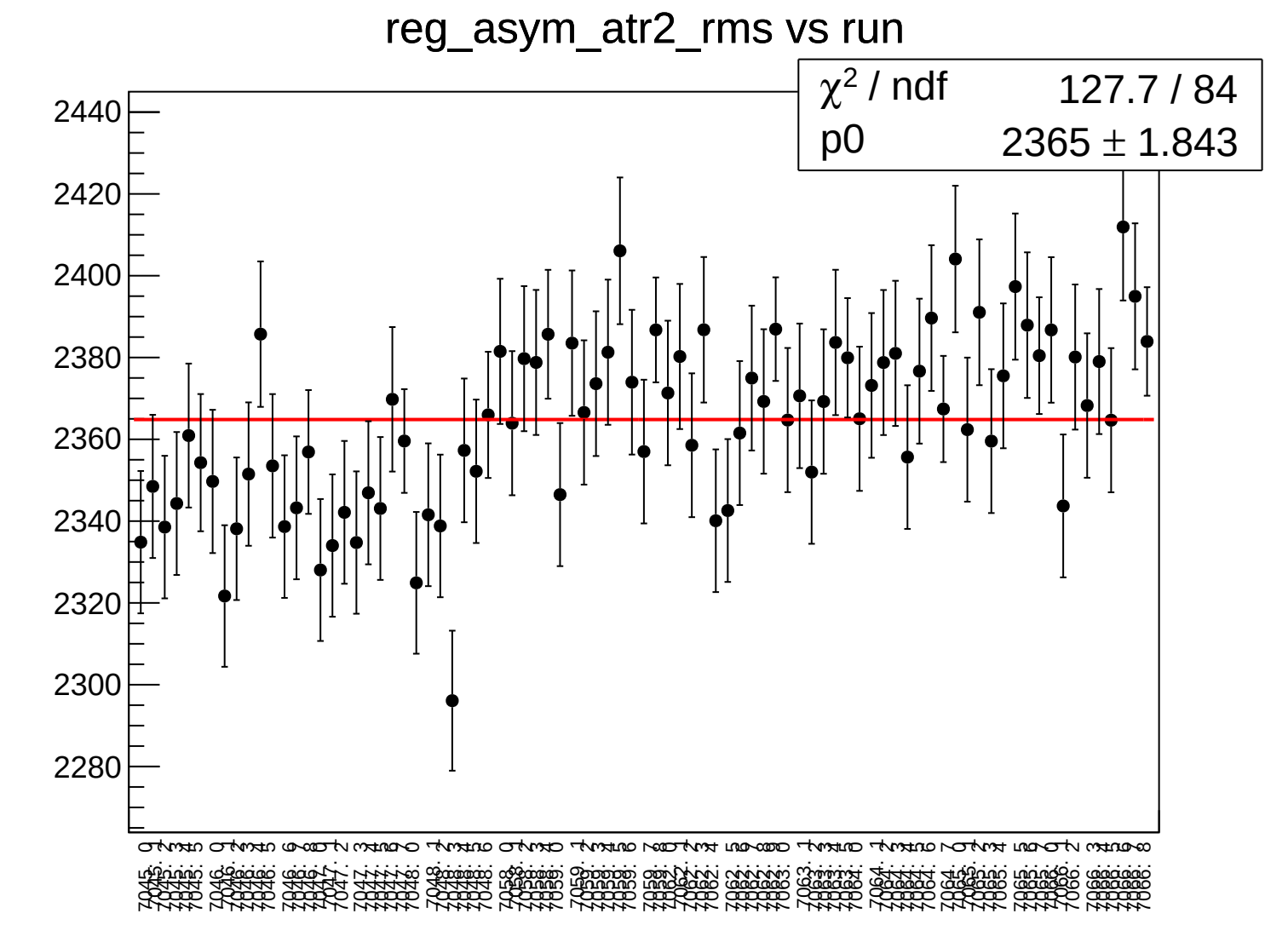

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.39 / 84
p0 −2.562e−15 ± 1.287e−14
pull
Entries 85
Mean −95.19
Std Dev 0

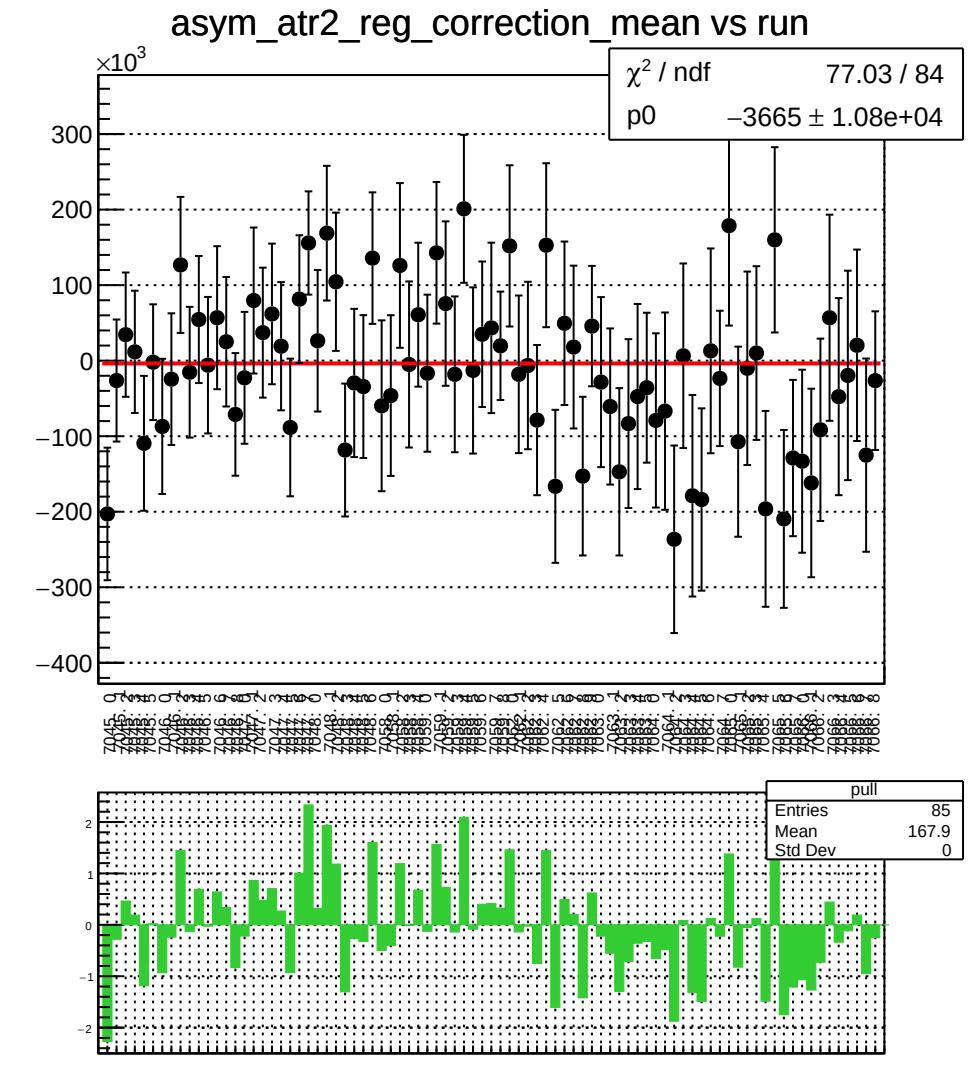

pull1D
Entries 85
Mean 0.03674
Std Dev 1.002

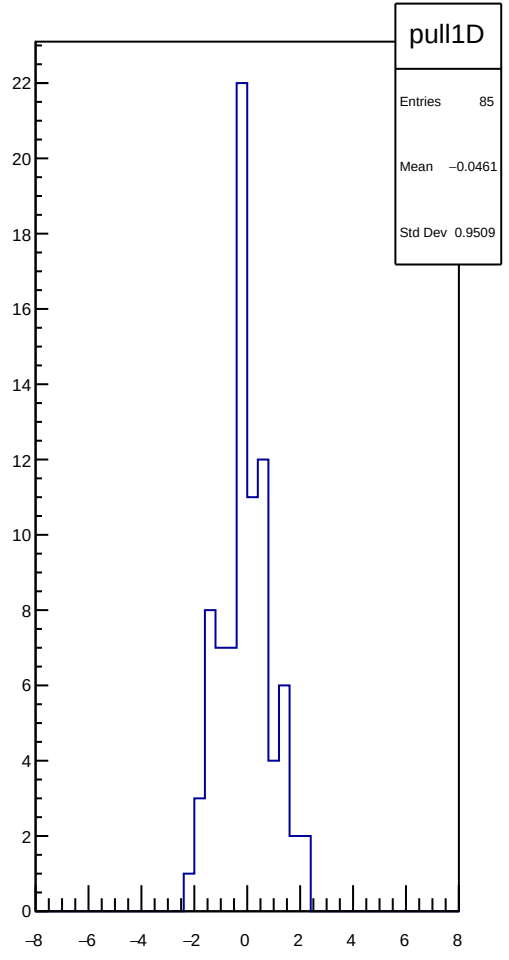

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.73e+05 / 84
p0 9.86e−12 ± 9.1e−15
70
60
50
40
30
20
10

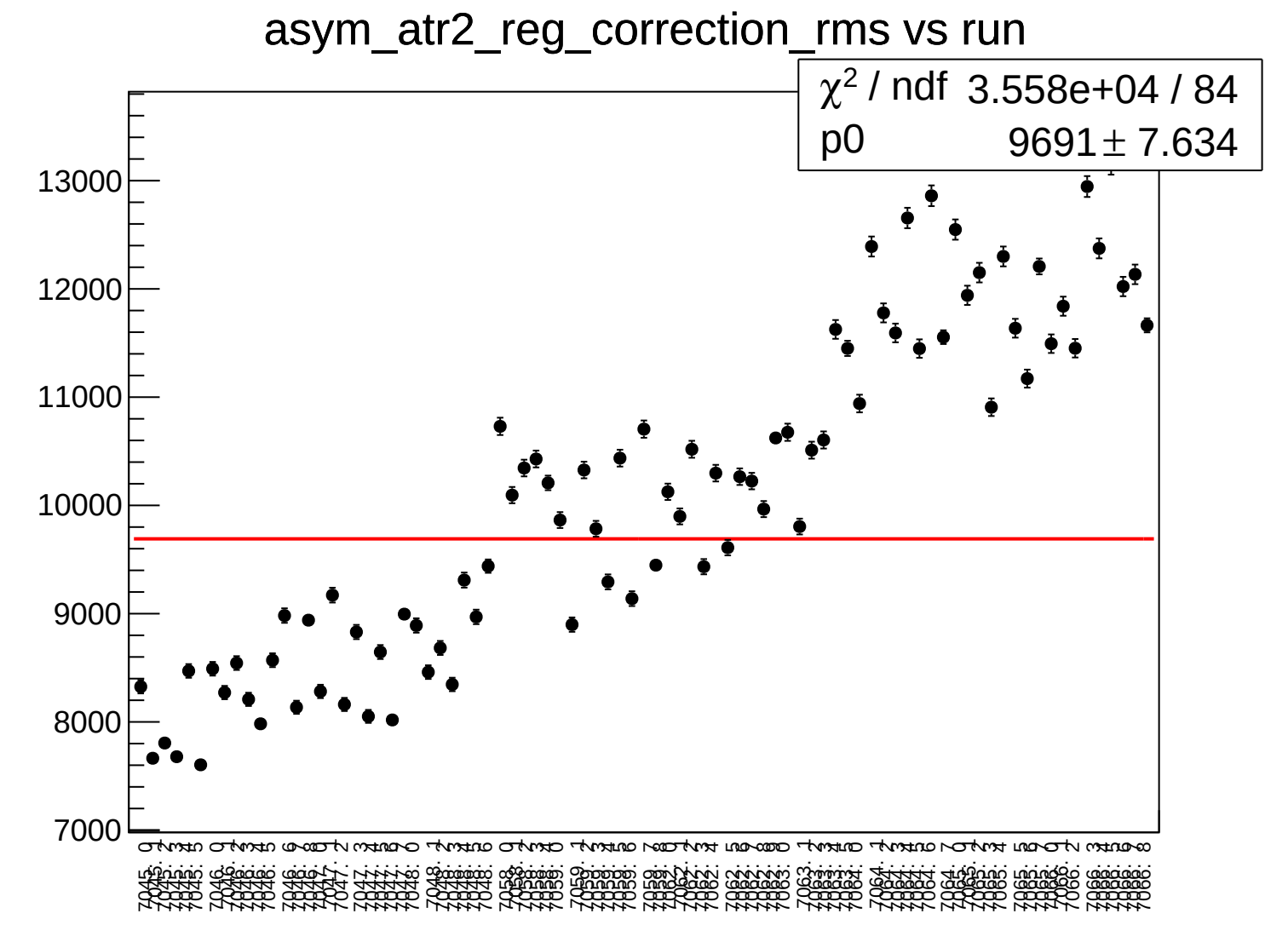

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 77.39 / 84
p0 2510 ± 2606
pull
Entries 85
Mean 75.08
Std Dev 0

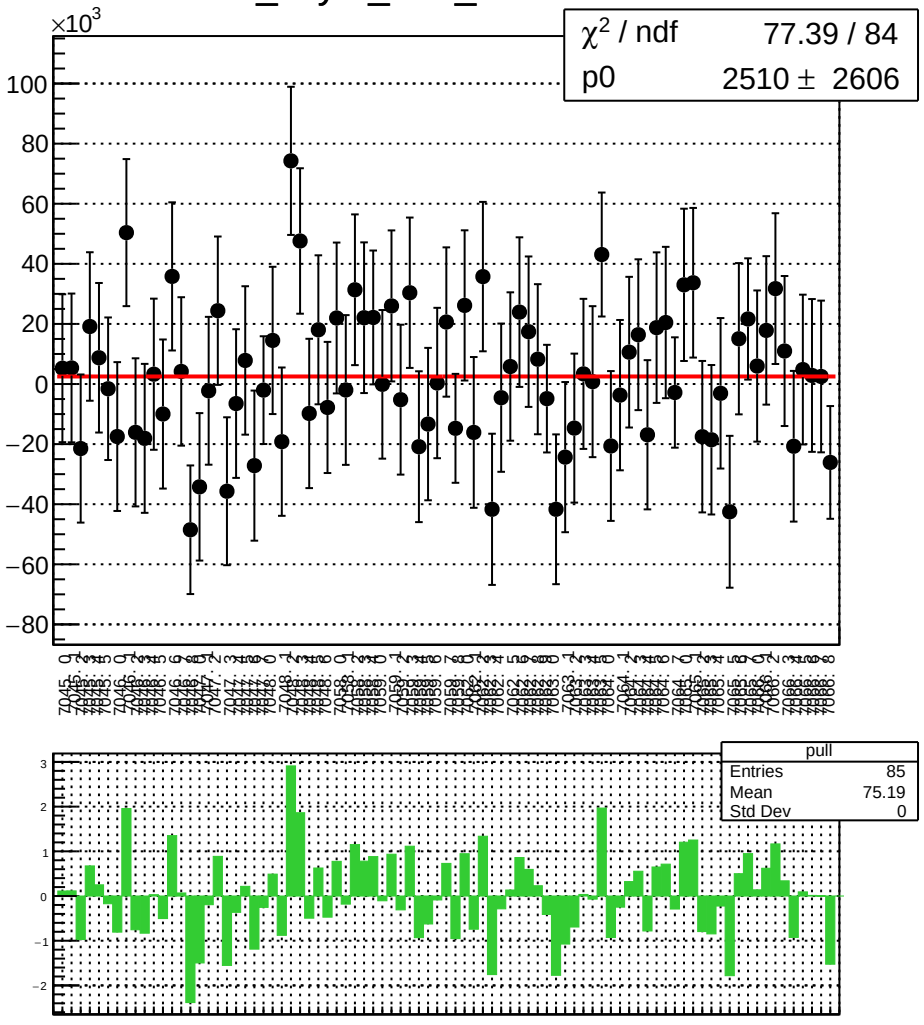

pull1D
Entries 85
Mean 0.01024
Std Dev 0.9542

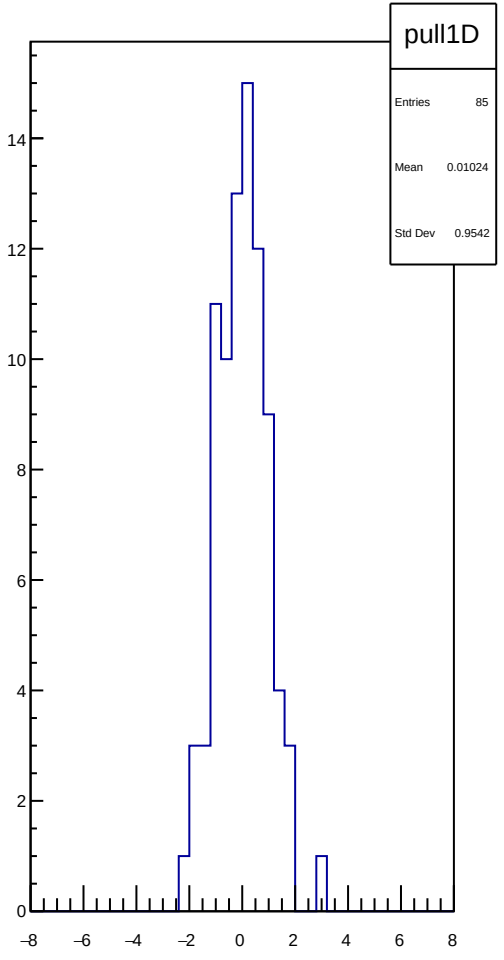

reg_asym_atr2_rms vs run
χ^2 / ndf 127.7 / 84
p0 2365 ± 1.843
2440
2420
2400
2380
2360
2340
2320
2300
2280

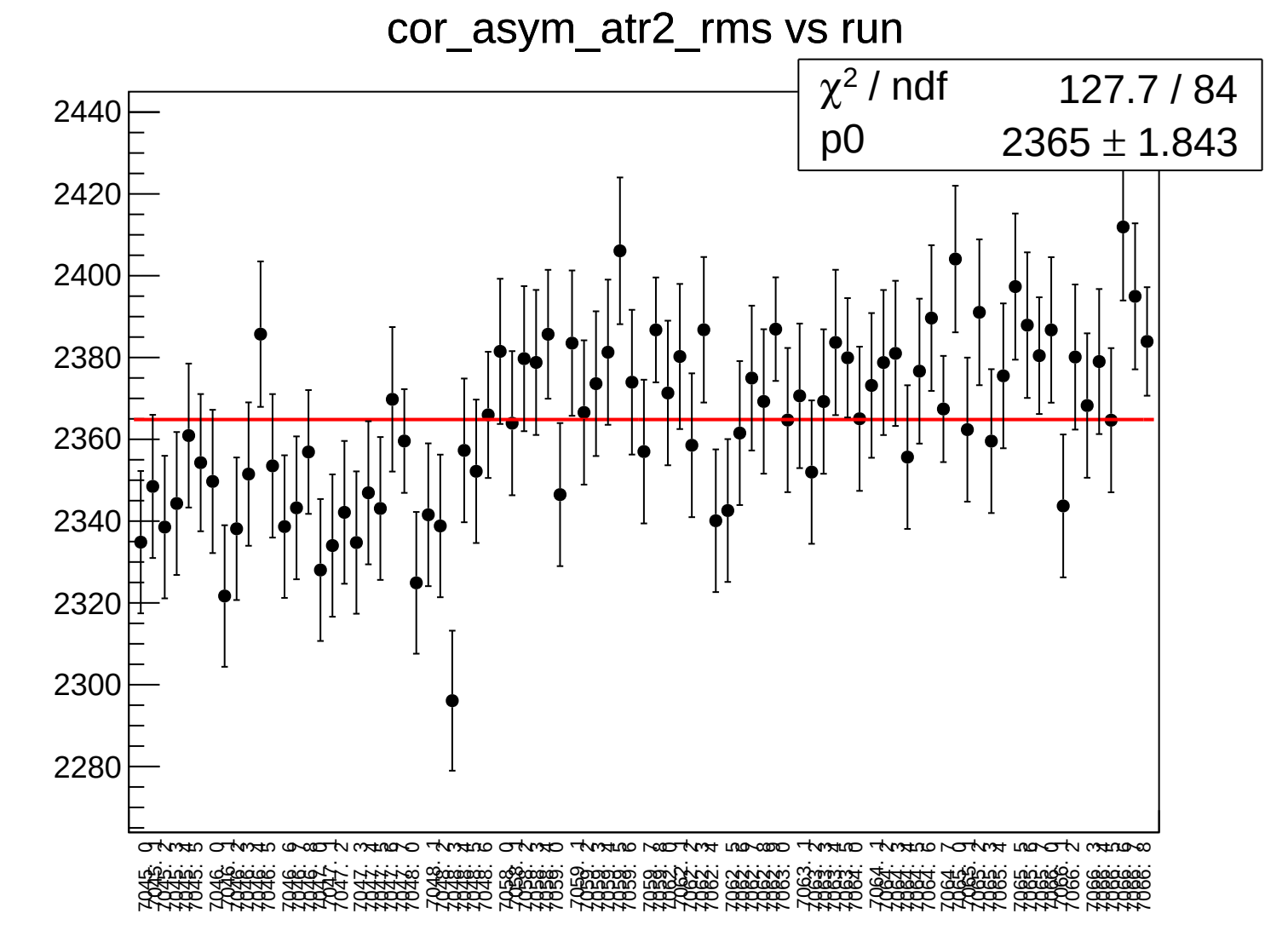

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 77.03 / 84
p0 −3665 ± 1.08e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean 167.9
Std Dev 0
2
1
0
−1
−2

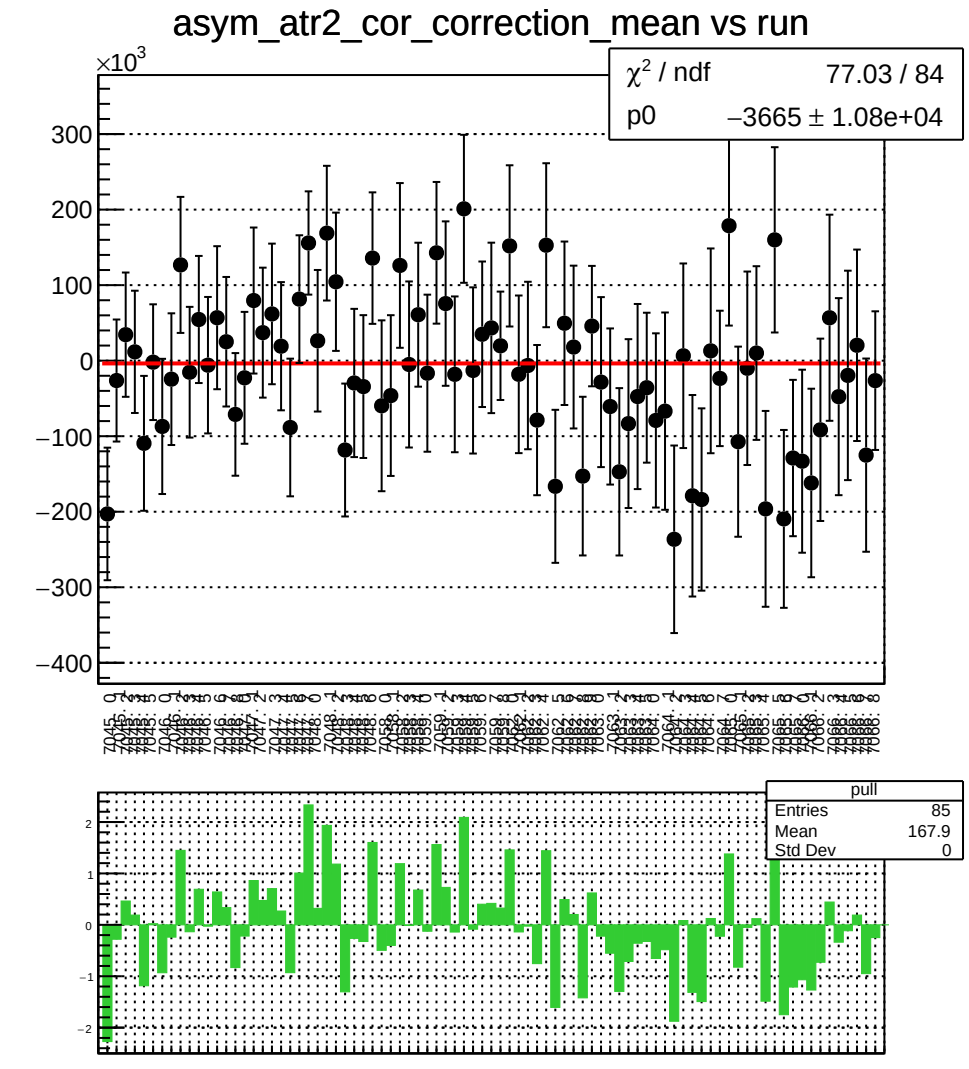

pull1D
Entries 85
Mean −0.0461
Std Dev 0.9509
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

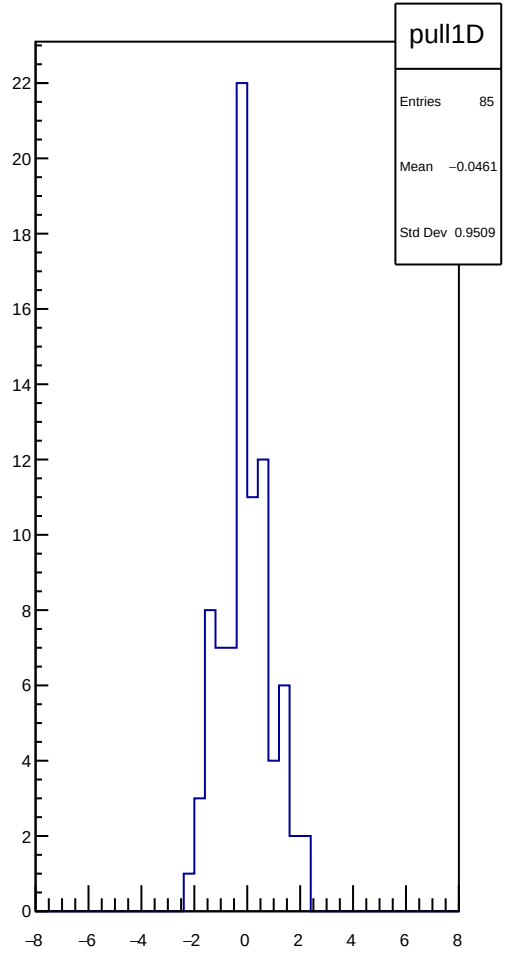

asym_atr2_reg_correction_rms vs run
χ² / ndf 3.558e+04 / 84
p0 9691 ± 7.634
13000
12000
11000
10000
9000
8000
7000

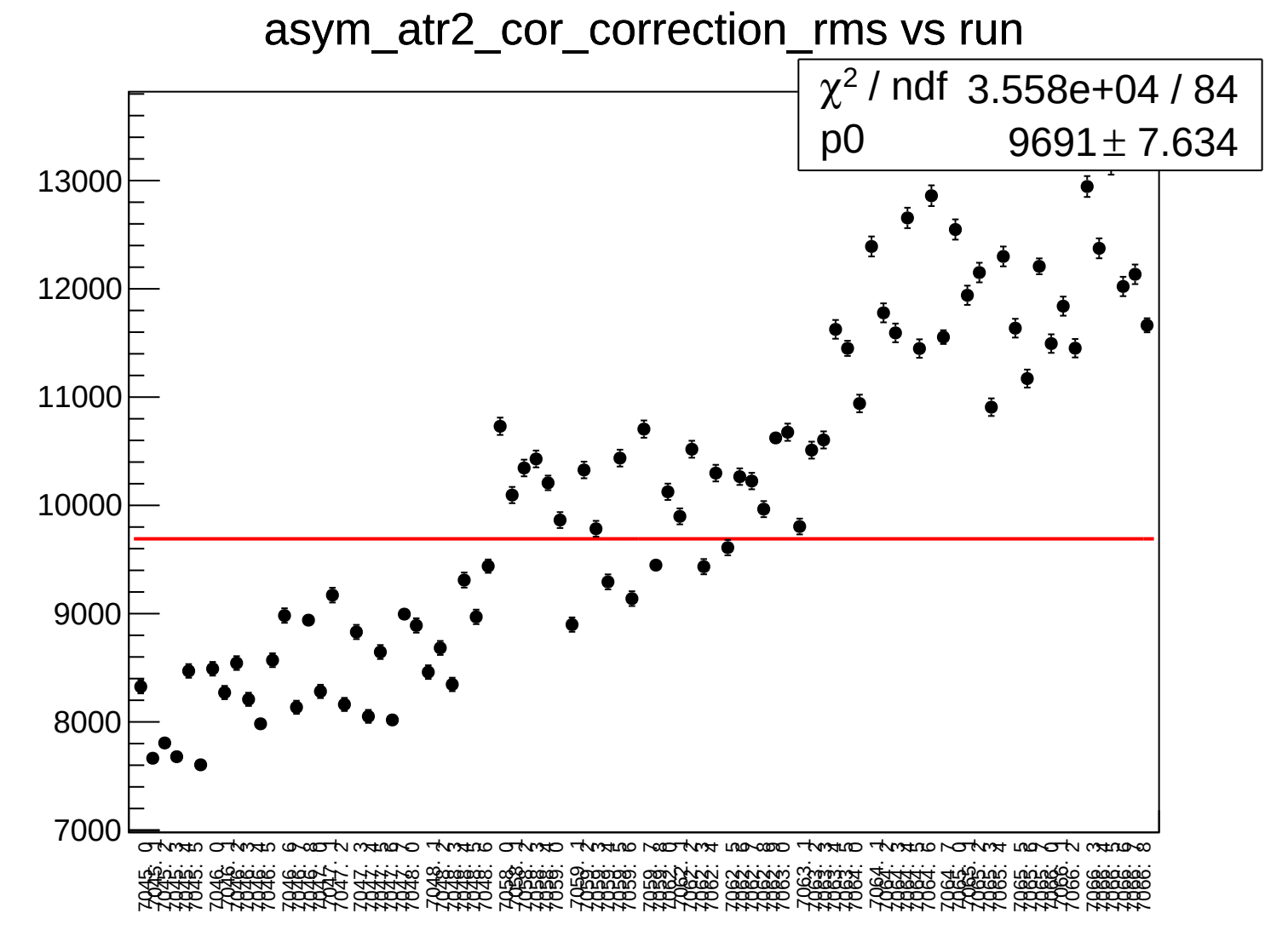

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 77.39 / 84
p0 2510 ± 2606
pull
Entries 85
Mean 75.19
Std Dev 0

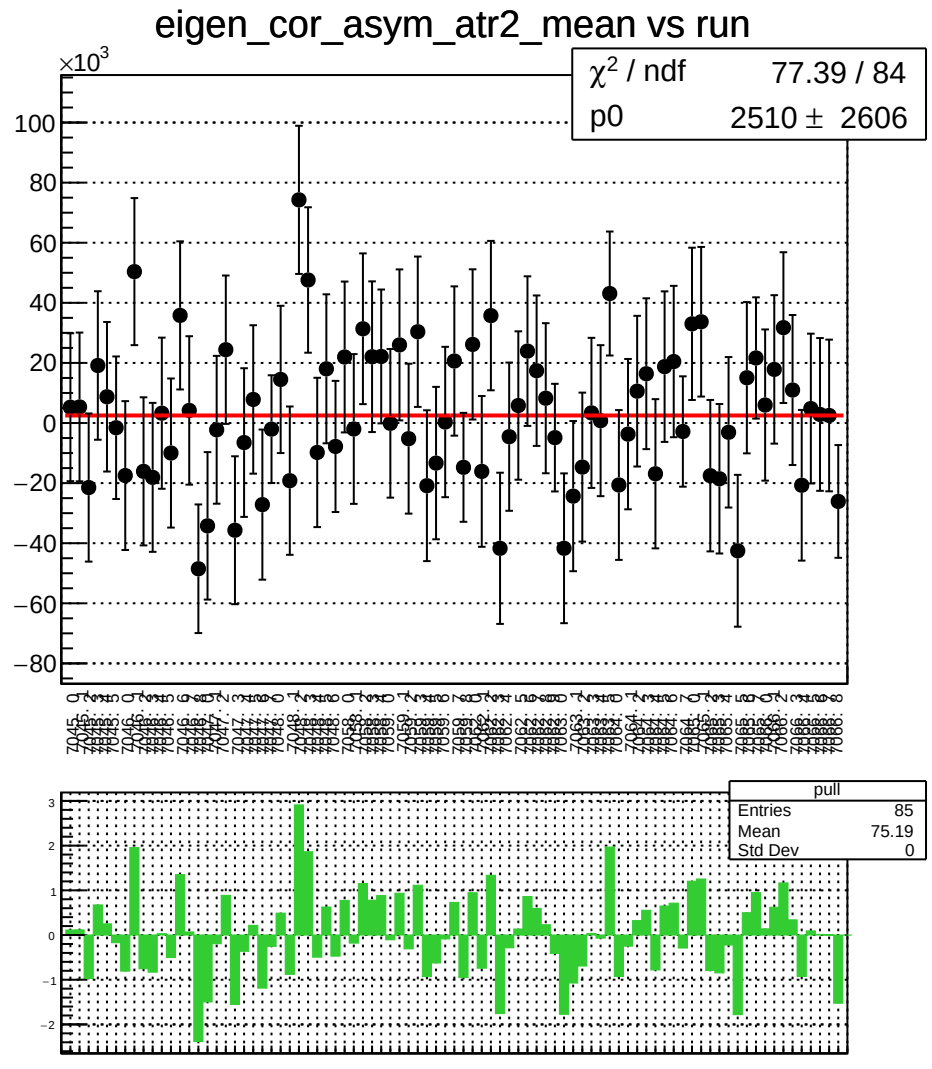

pull1D
Entries 85
Mean 0.01024
Std Dev 0.9542

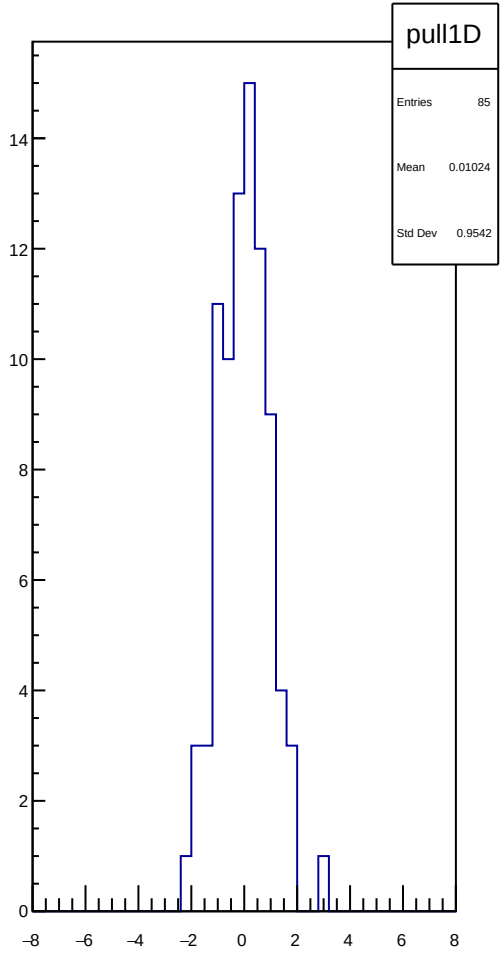

cor_asym_atr2_rms vs run
χ^2 / ndf 127.7 / 84
p0 2365 ± 1.843
2440
2420
2400
2380
2360
2340
2320
2300
2280

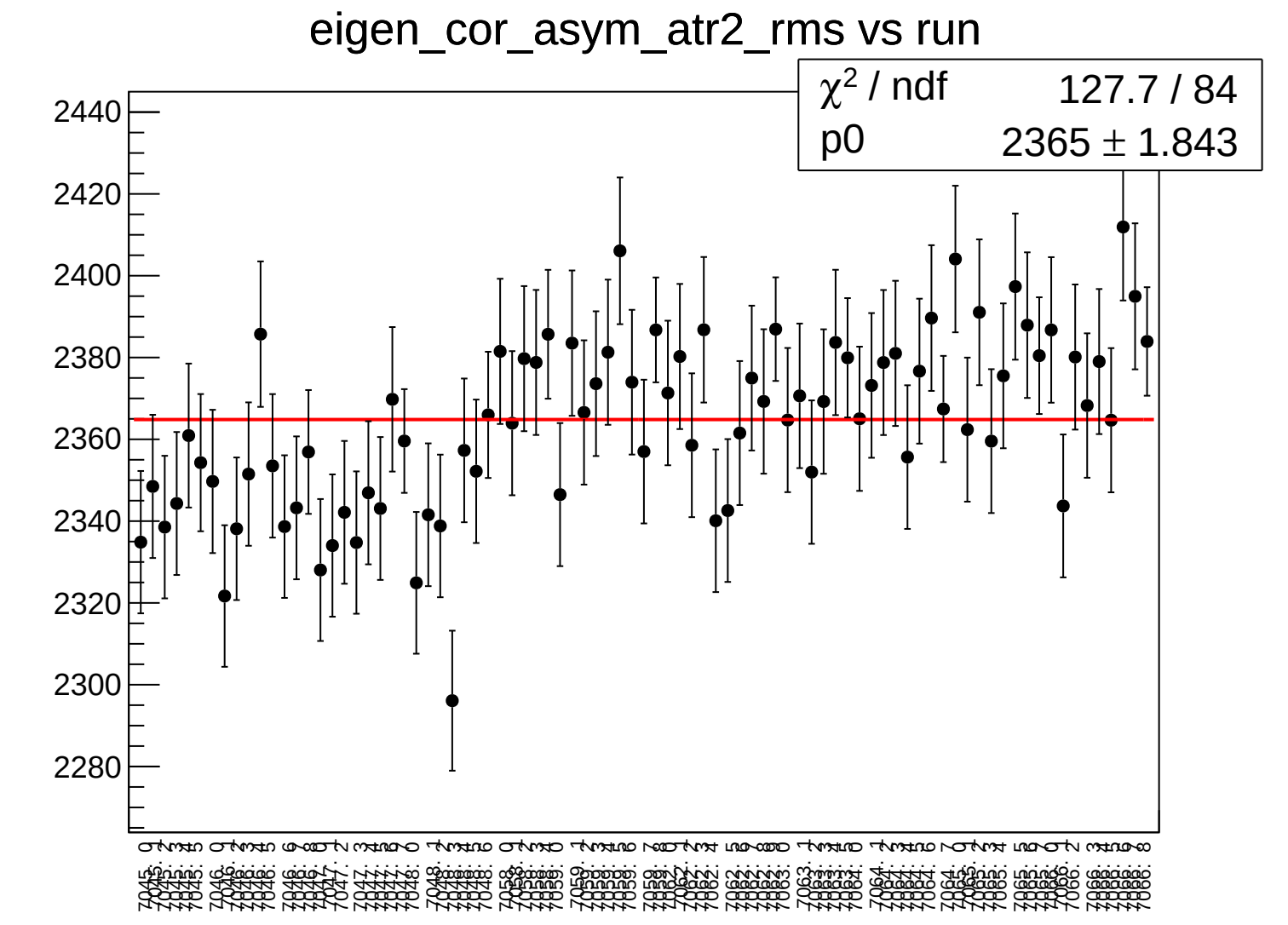

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 77.03 / 84
p0 −3665 ± 1.08e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean 167.9
Std Dev 0
2
1
0
−1
−2

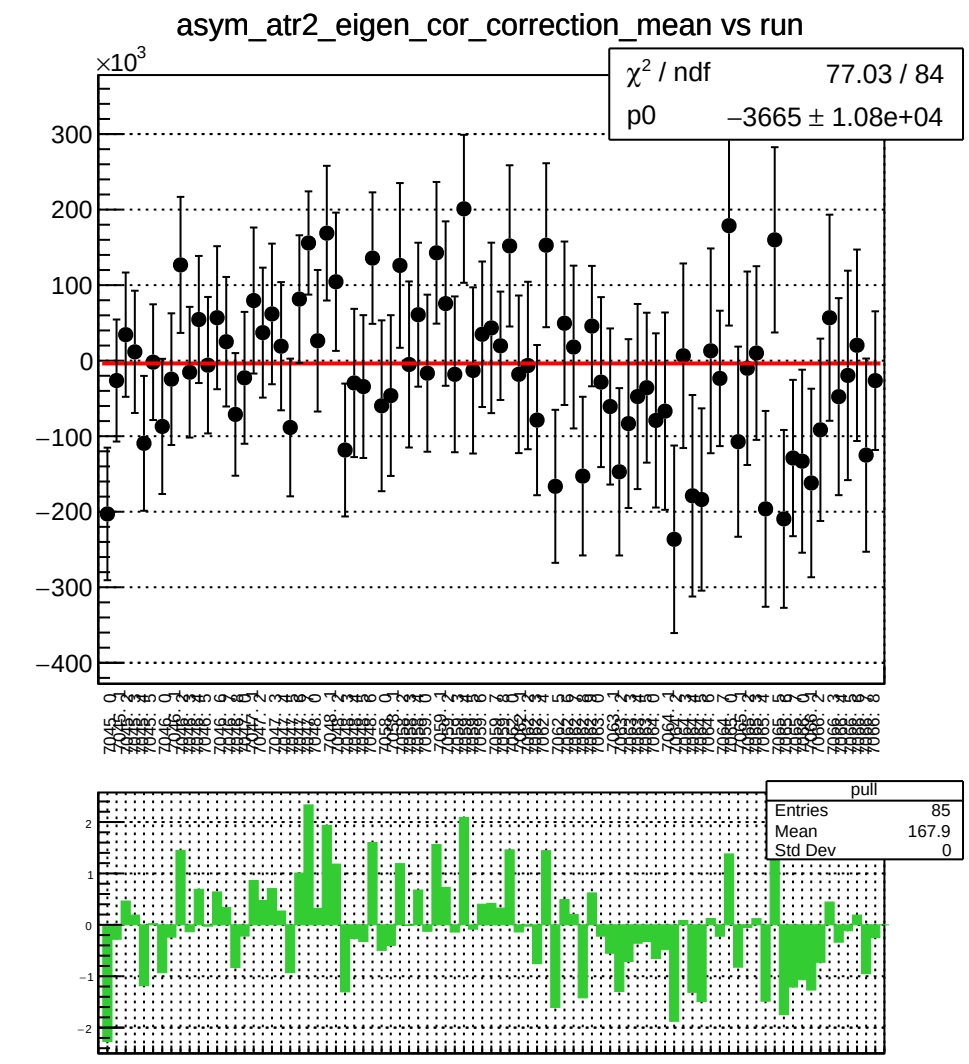

pull1D
Entries 85
Mean −0.0461
Std Dev 0.9509
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

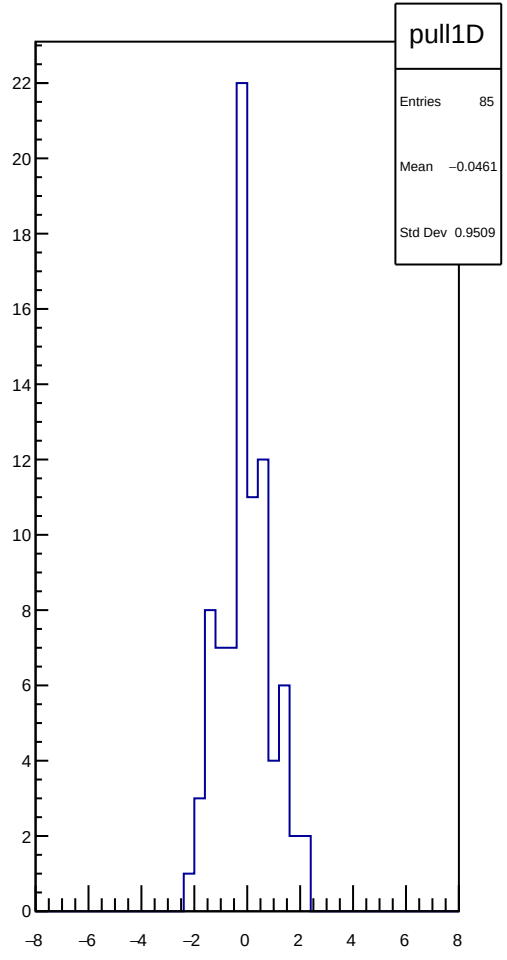

asym_atr2_cor_correction_rms vs run
χ² / ndf 3.558e+04 / 84
p0 9691 ± 7.634
13000
12000
11000
10000
9000
8000
7000

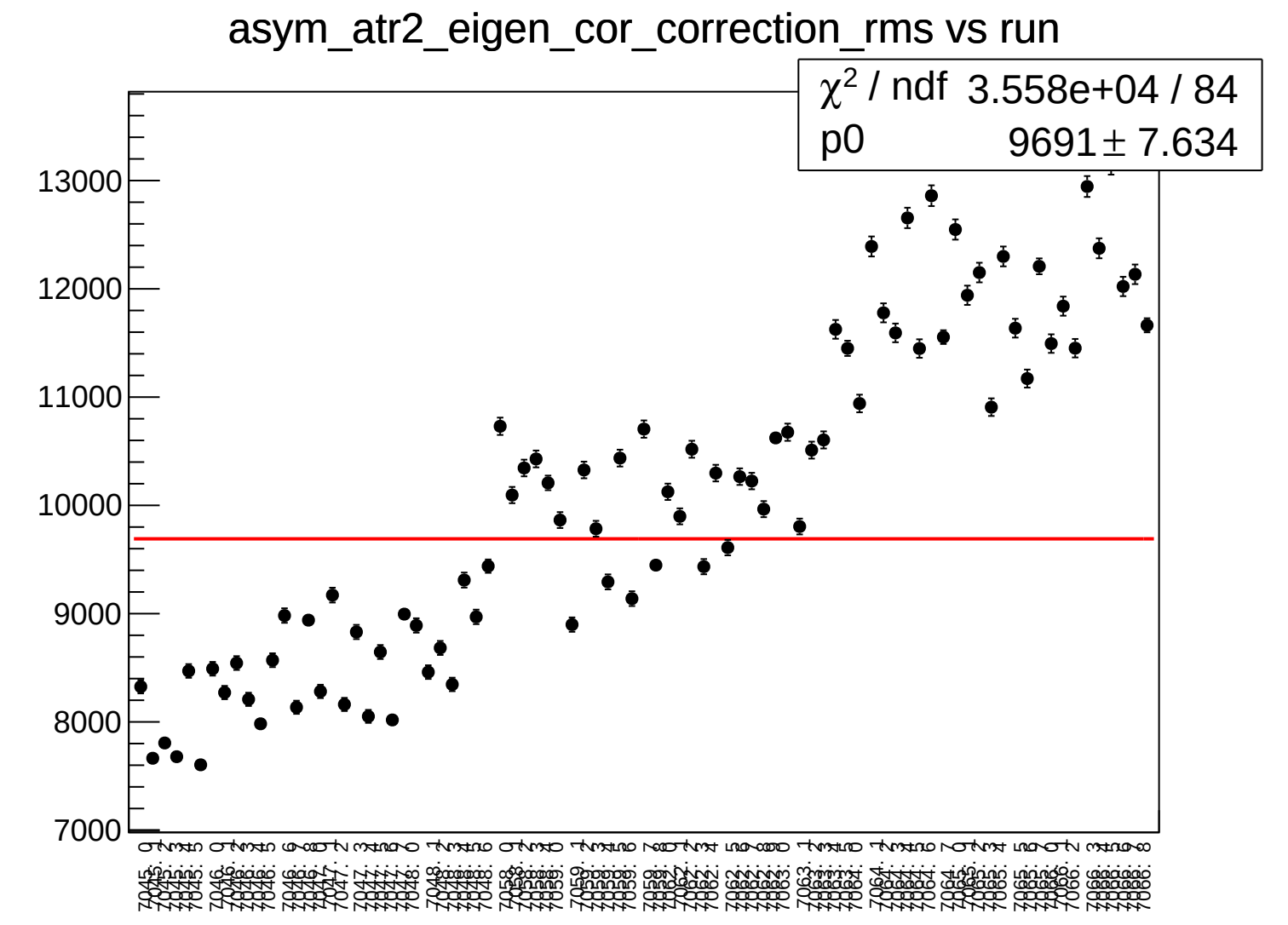

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 77.39 / 84
p0 2510 ± 2606
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 85
Mean 75.19
Std Dev 0
3
2
1
0
−1
−2

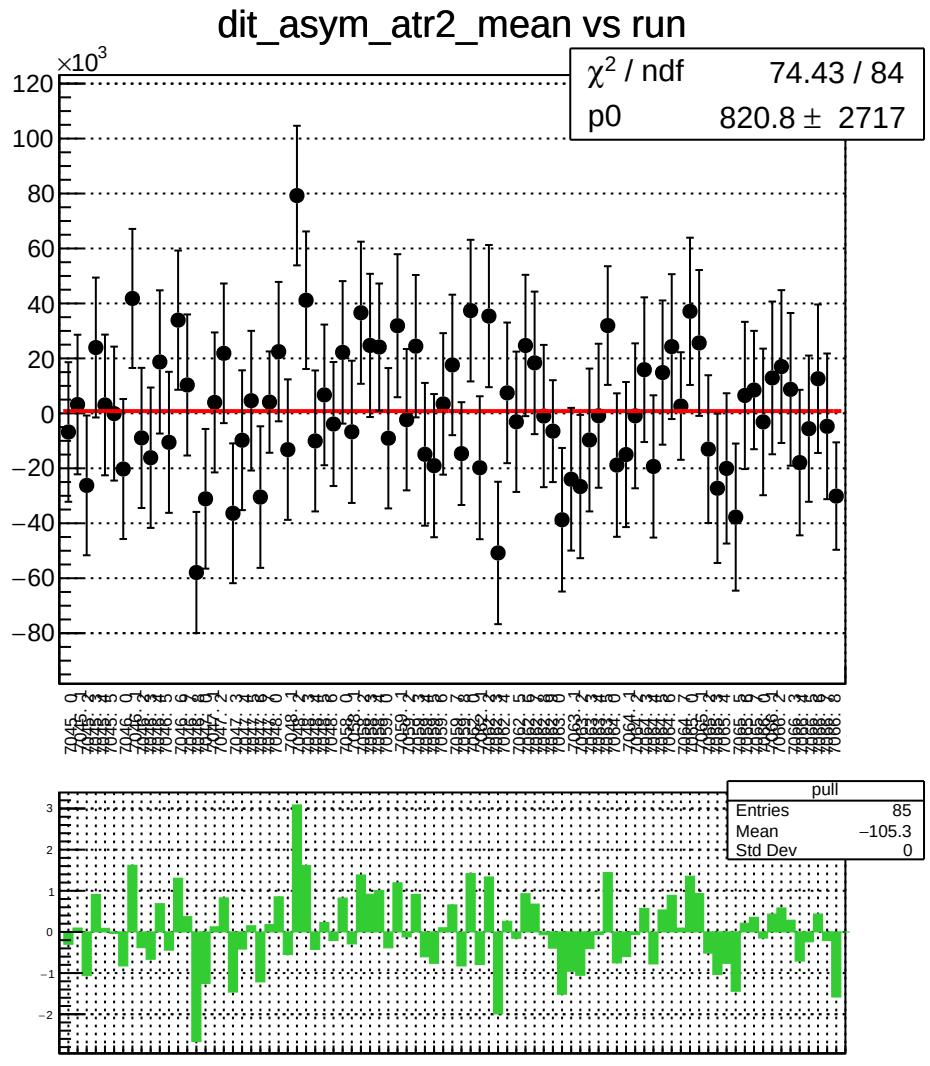

pull1D
Entries 85
Mean 0.01024
Std Dev 0.9542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

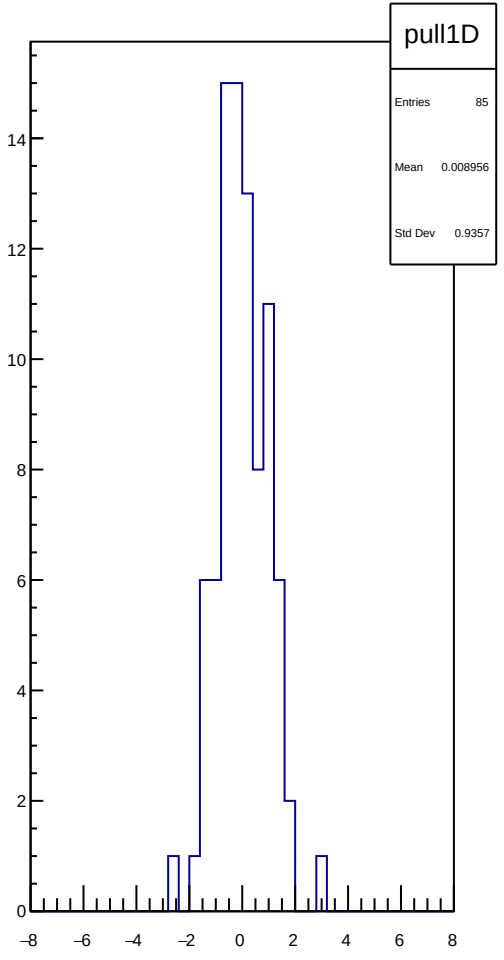

eigen_cor_asym_atr2_rms vs run
χ² / ndf 127.7 / 84
p0 2365 ± 1.843
2440
2420
2400
2380
2360
2340
2320
2300
2280

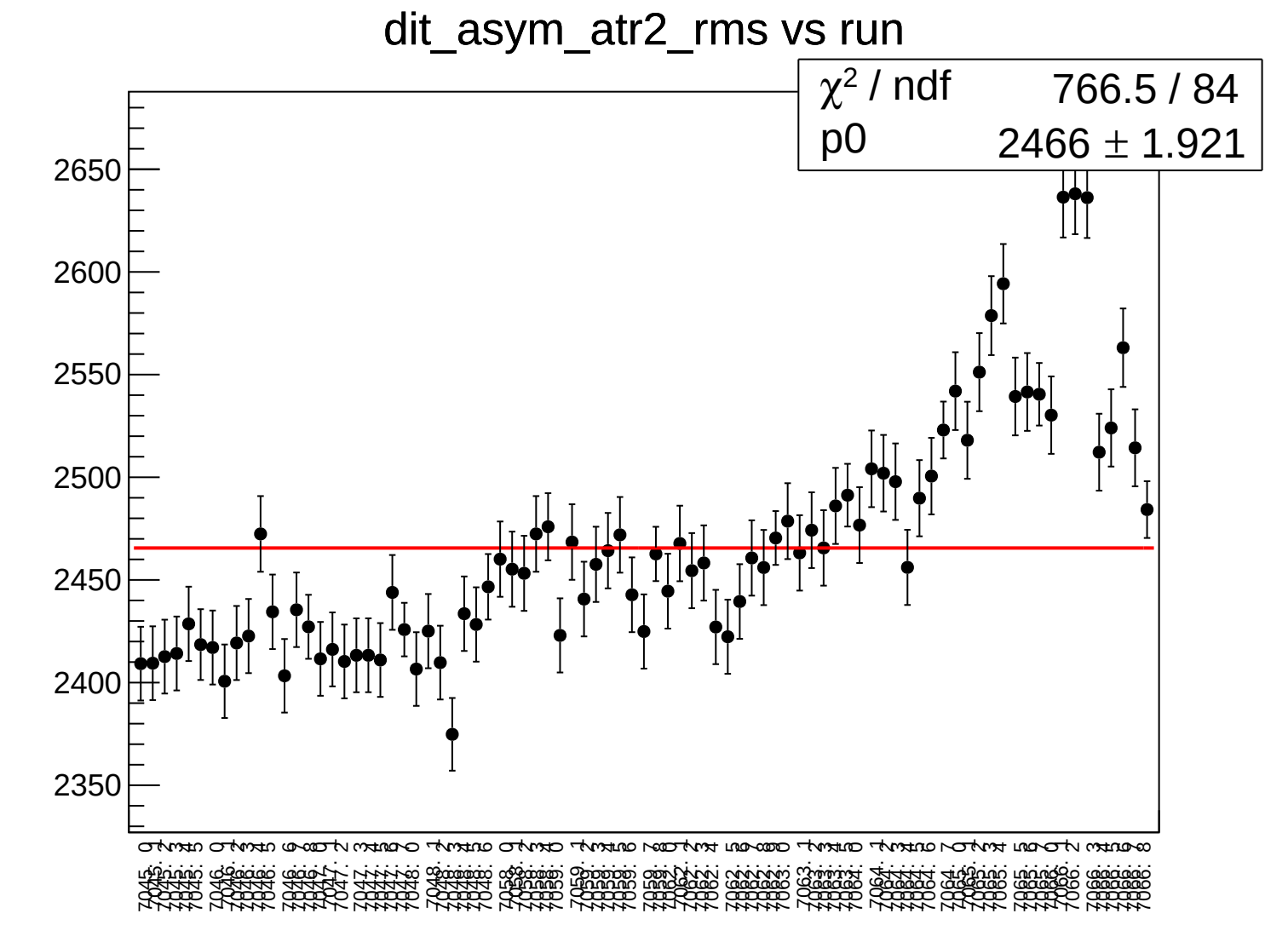

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.03 / 84
p0 −3665 ± 1.08e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean 167.9
Std Dev 0
2
1
0
−1
−2

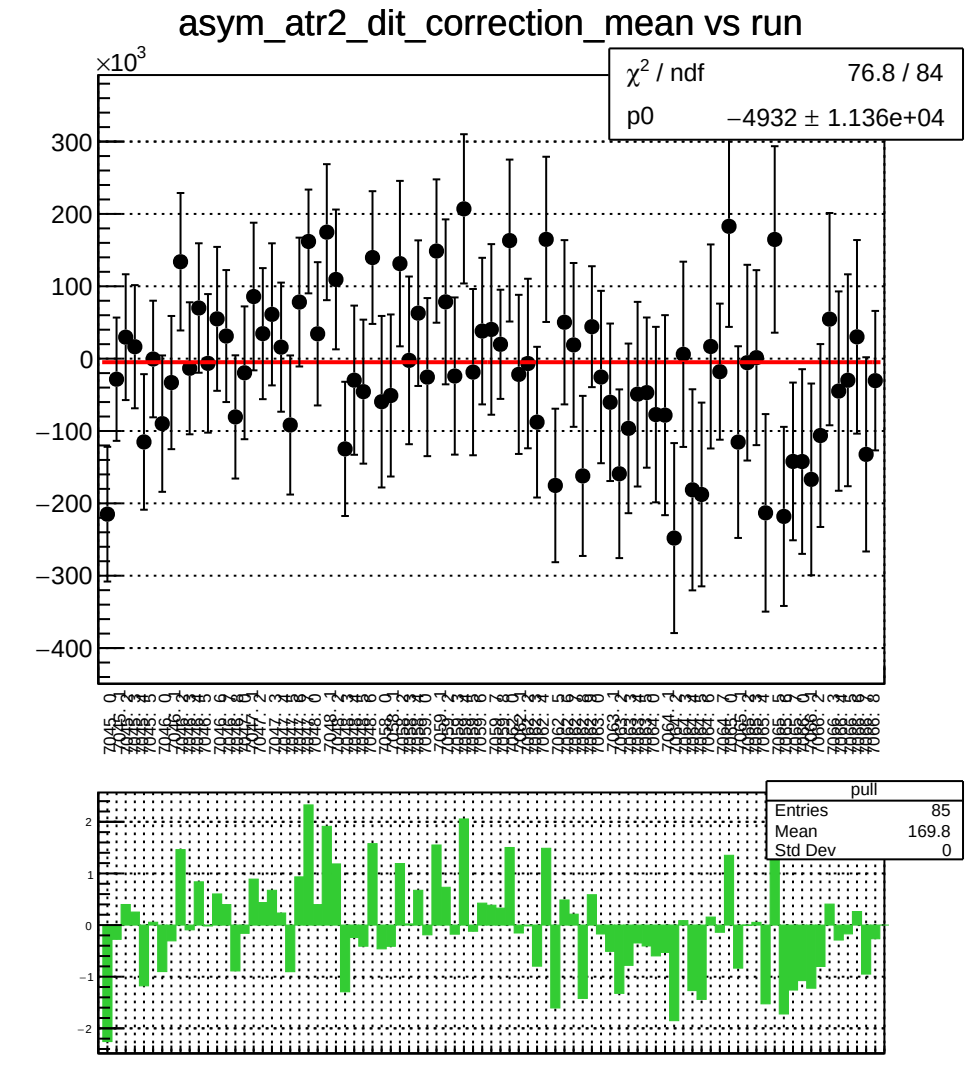

pull1D
Entries 85
Mean −0.0461
Std Dev 0.9509
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

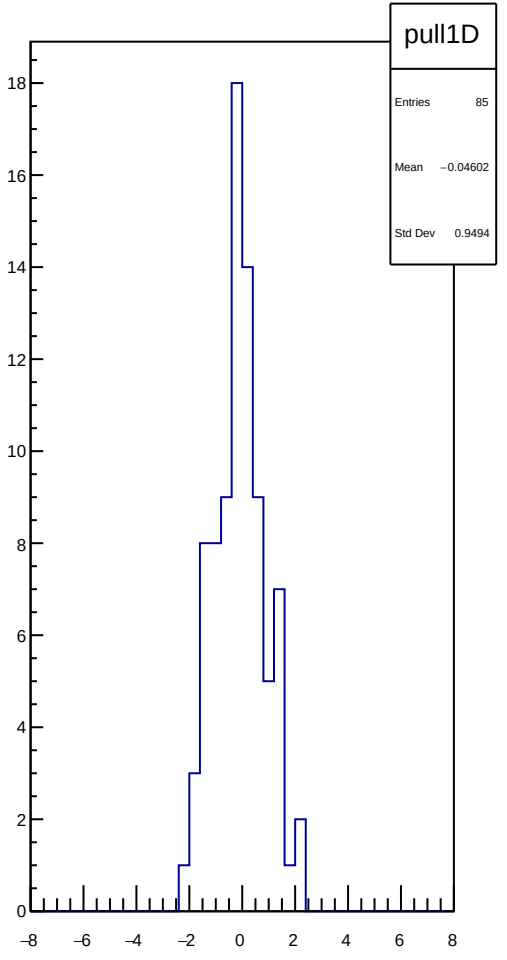

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3.558e+04 / 84
p0 9691 ± 7.634
13000
12000
11000
10000
9000
8000
7000

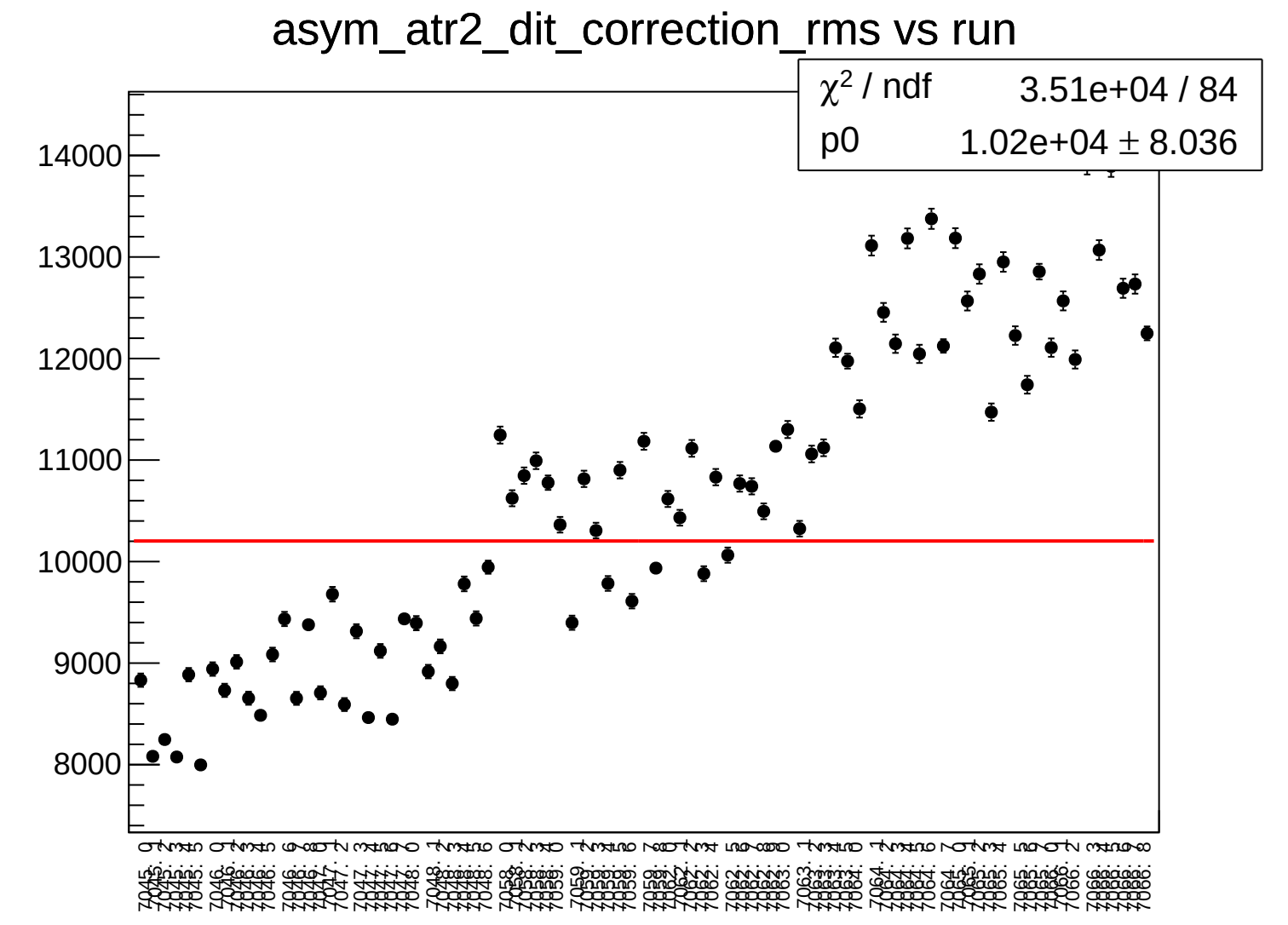

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 74.43 / 84
p0 820.8 ± 2717
pull
Entries 85
Mean −105.3
Std Dev 0

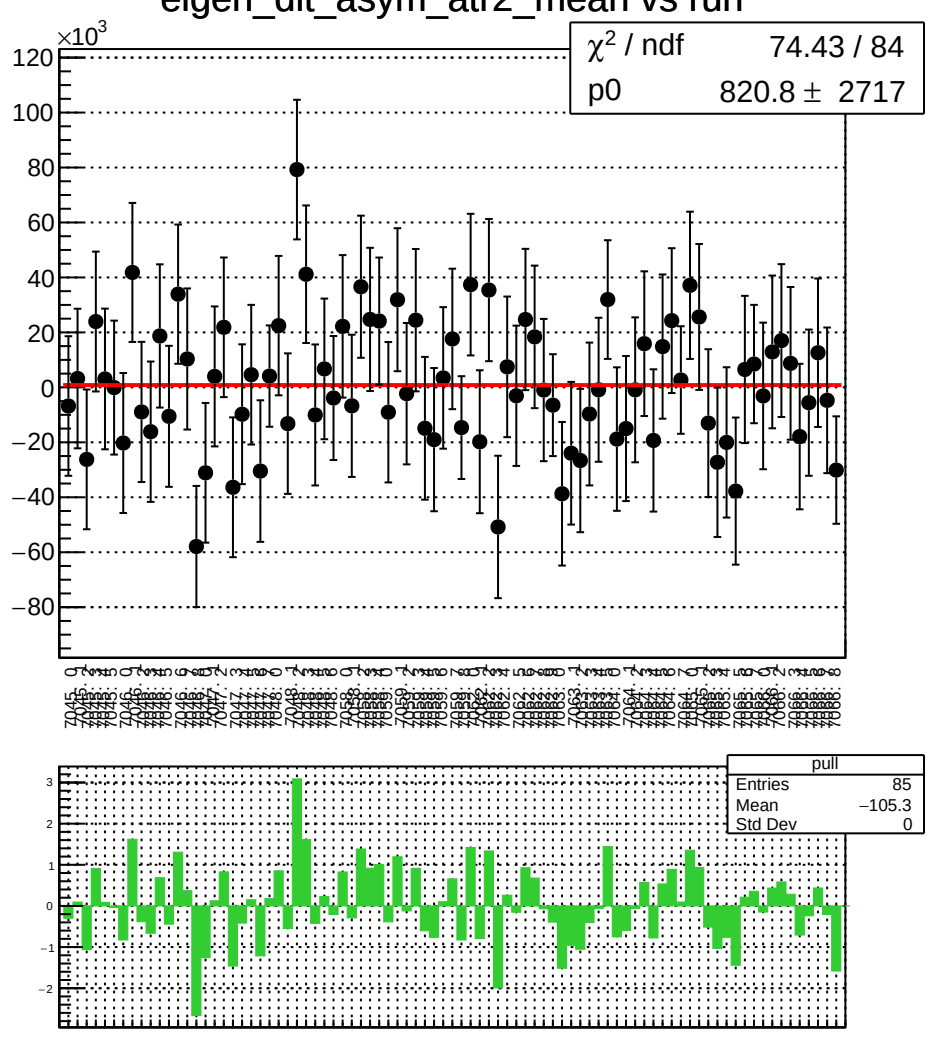

pull1D
Entries 85
Mean 0.008956
Std Dev 0.9357

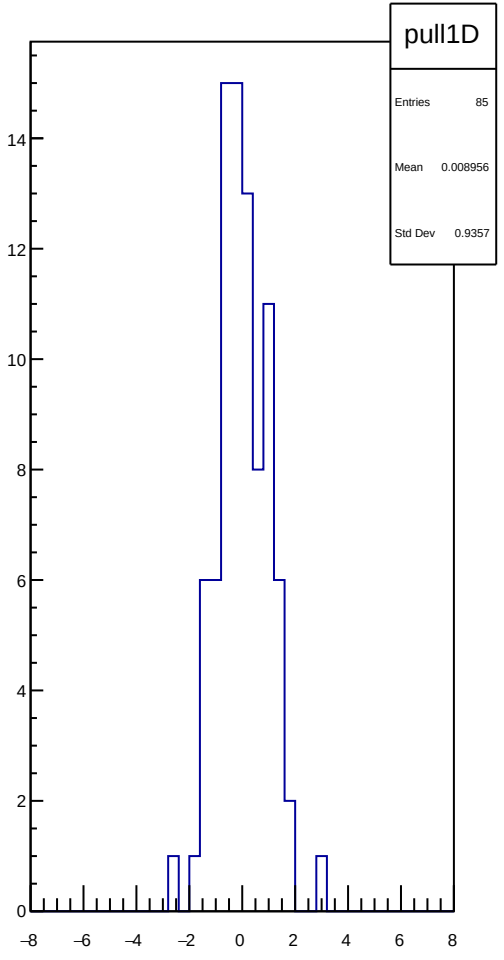

dit_asym_atr2_rms vs run
χ^2 / ndf 766.5 / 84
p0 2466 ± 1.921
2650
2600
2550
2500
2450
2400
2350

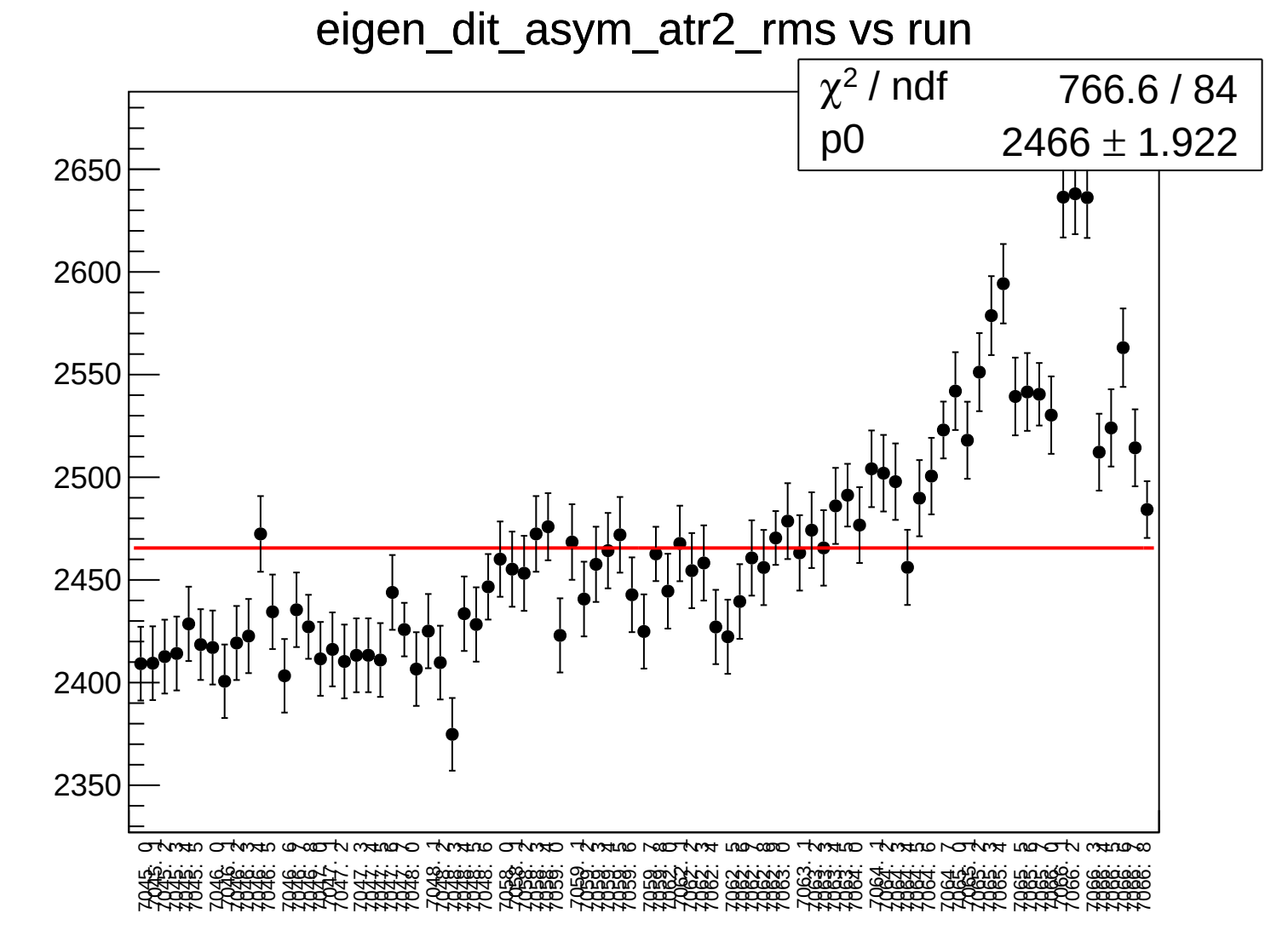

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 76.8 / 84
p0 −4932 ± 1.136e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean 169.8
Std Dev 0
2
1
0
−1
−2

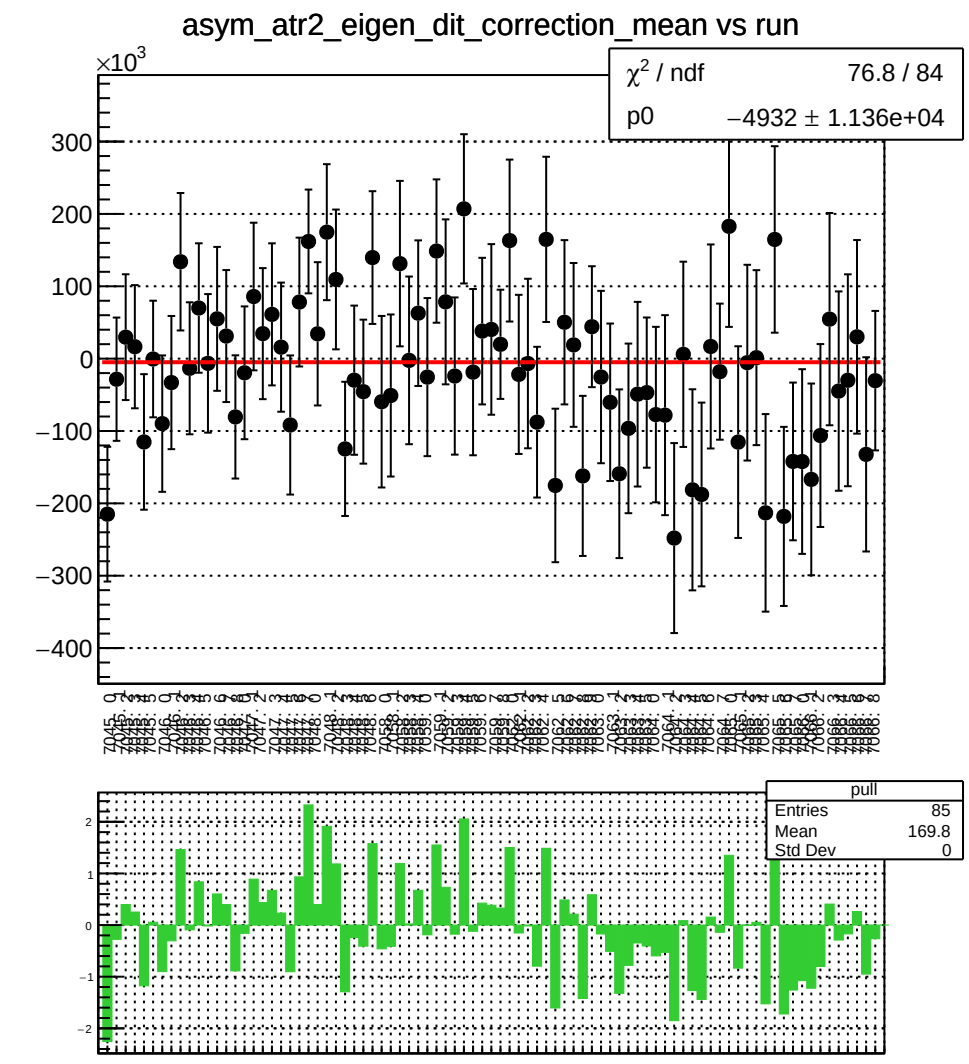

pull1D
Entries 85
Mean −0.04602
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

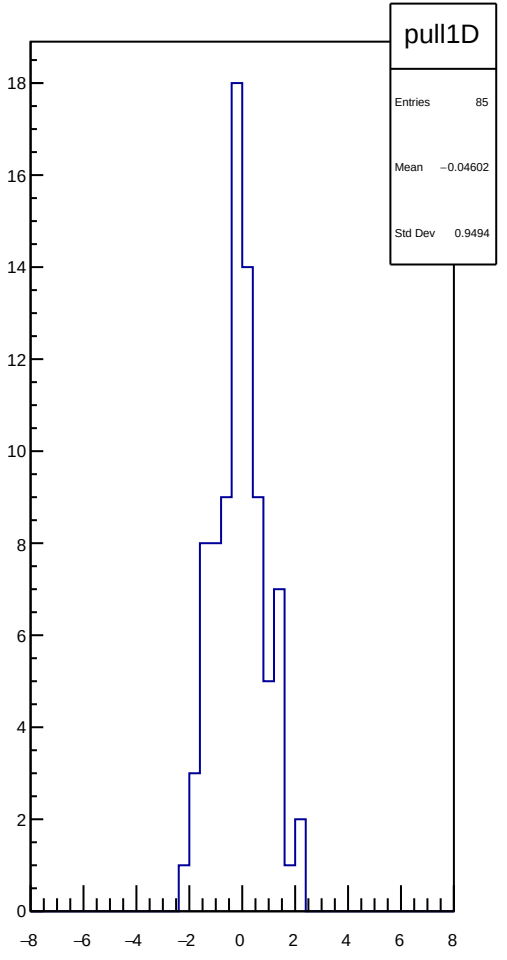

asym_atr2_dit_correction_rms vs run
χ² / ndf 3.51e+04 / 84
p0 1.02e+04 ± 8.036
14000
13000
12000
11000
10000
9000
8000

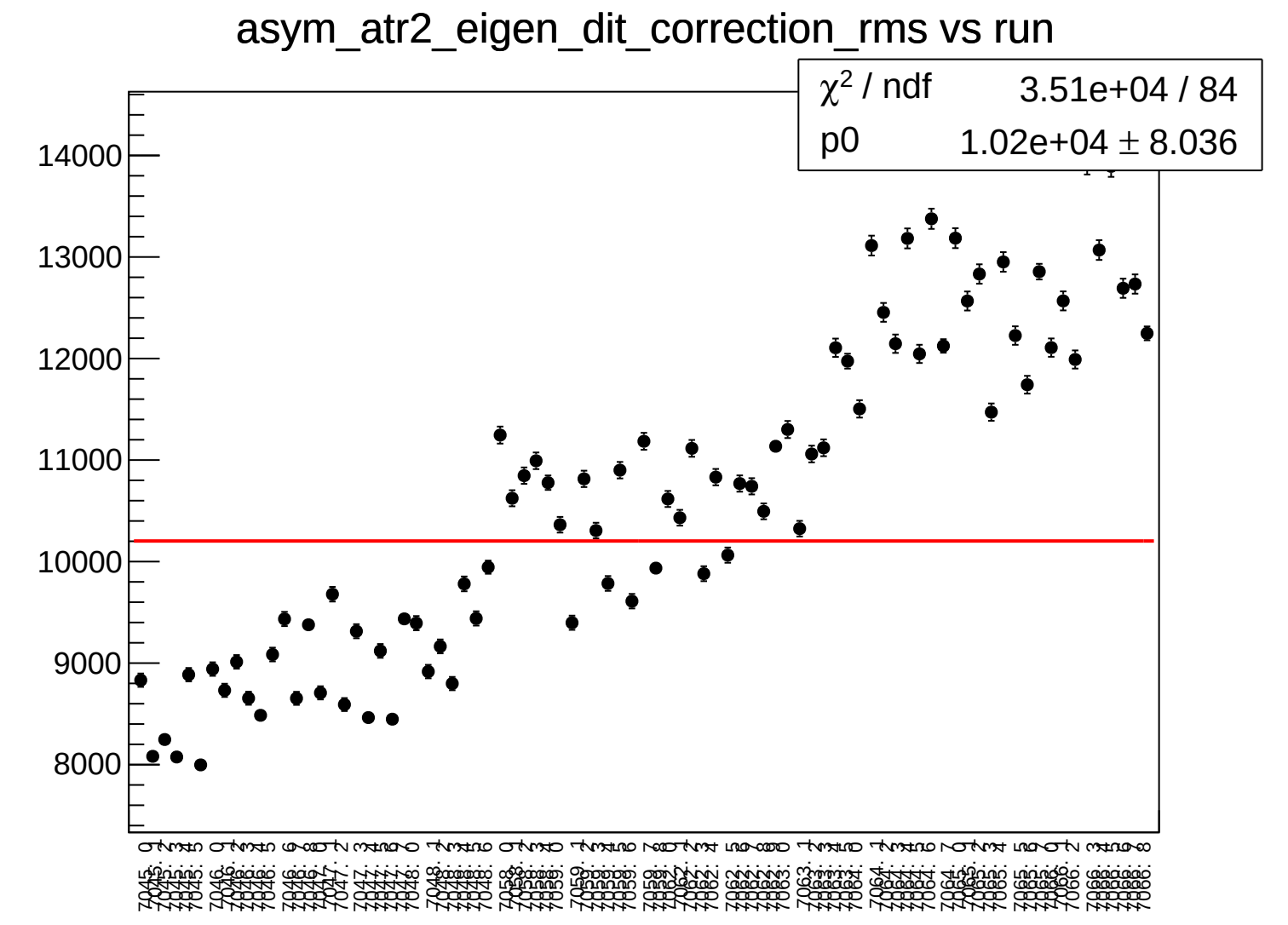

eigen_dit_asym_atr2_mean vs run
χ² / ndf 74.43 / 84
p0 820.8 ± 2717
×10³
pull
Entries 85
Mean −105.3
Std Dev 0

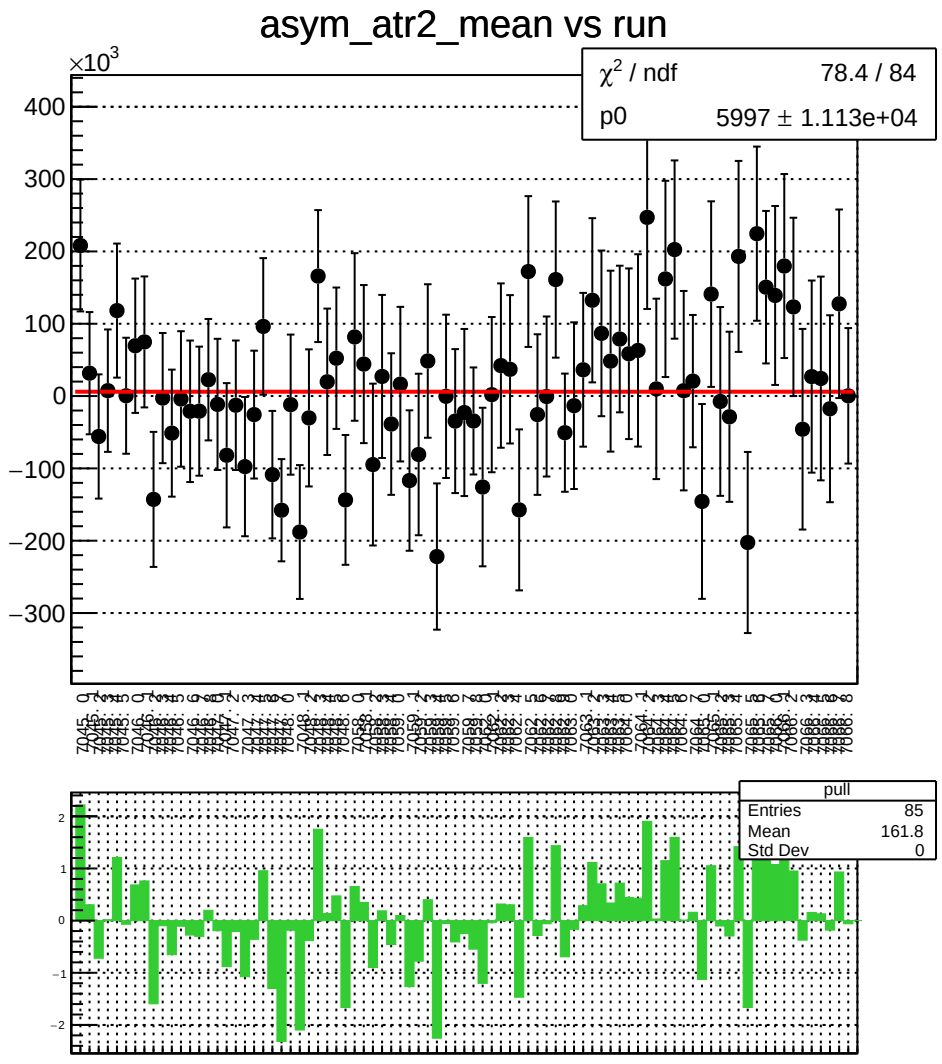

pull1D
Entries 85
Mean 0.008956
Std Dev 0.9357

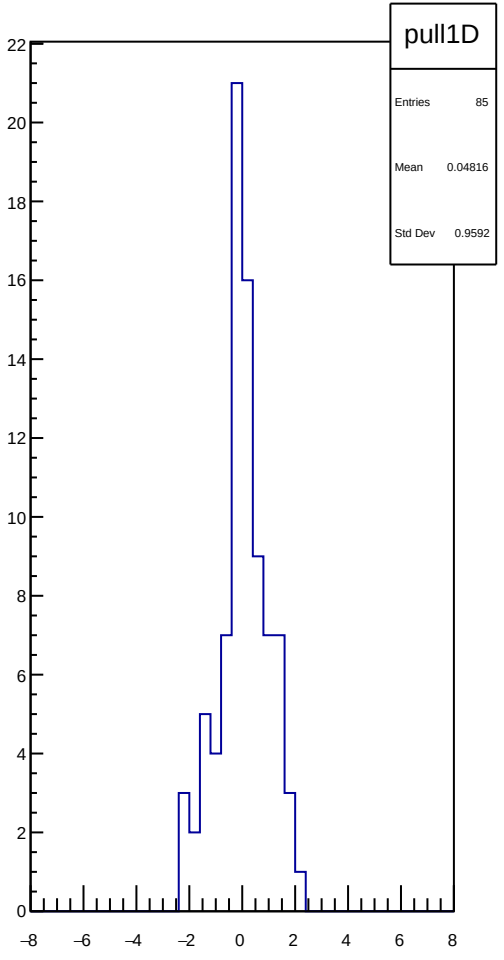

eigen_dit_asym_atr2_rms vs run
χ² / ndf 766.6 / 84
p0 2466 ± 1.922
2650
2600
2550
2500
2450
2400
2350

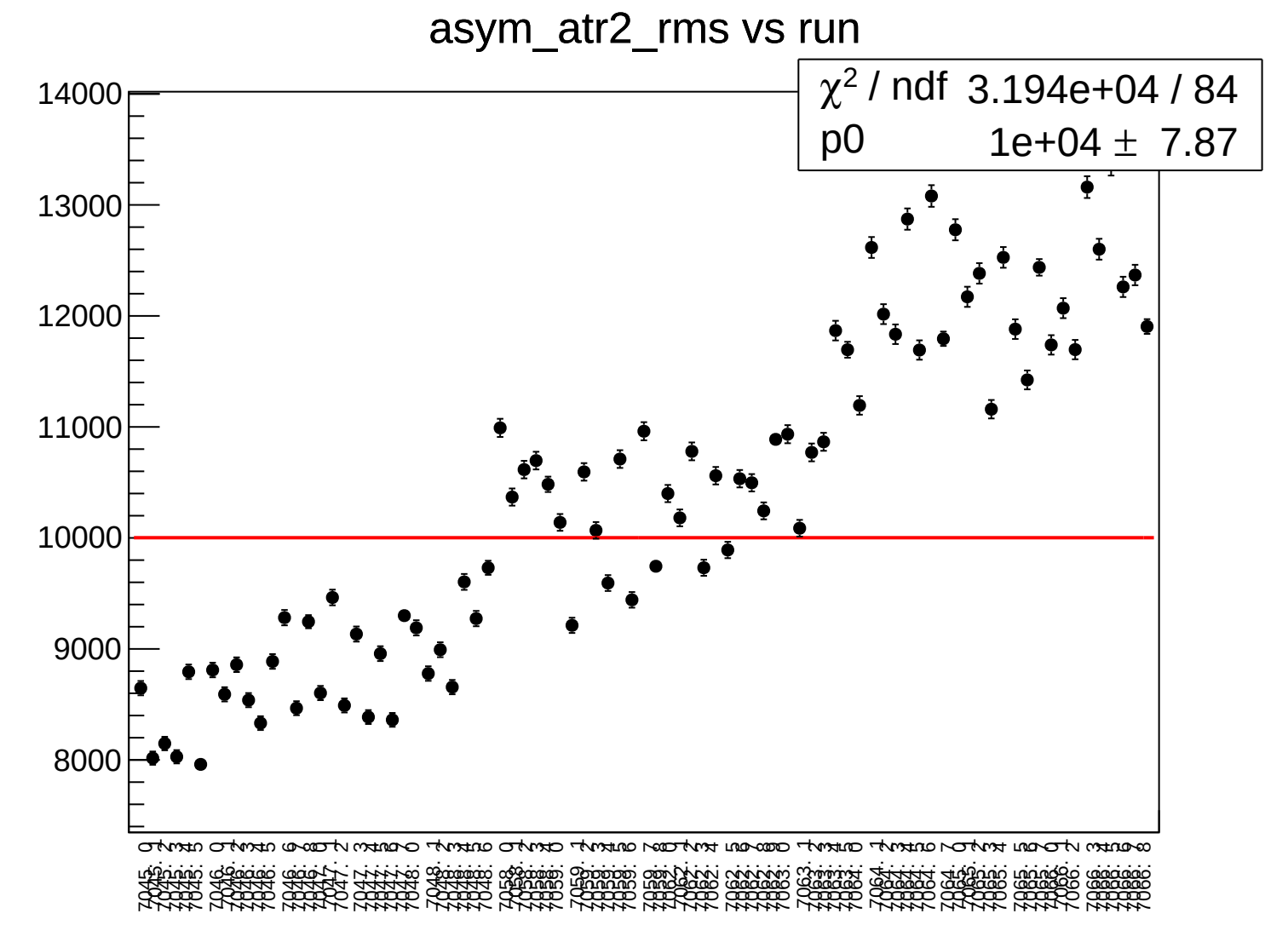

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.8 / 84
p0 −4932 ± 1.136e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean 169.8
Std Dev 0
2
1
0
−1
−2

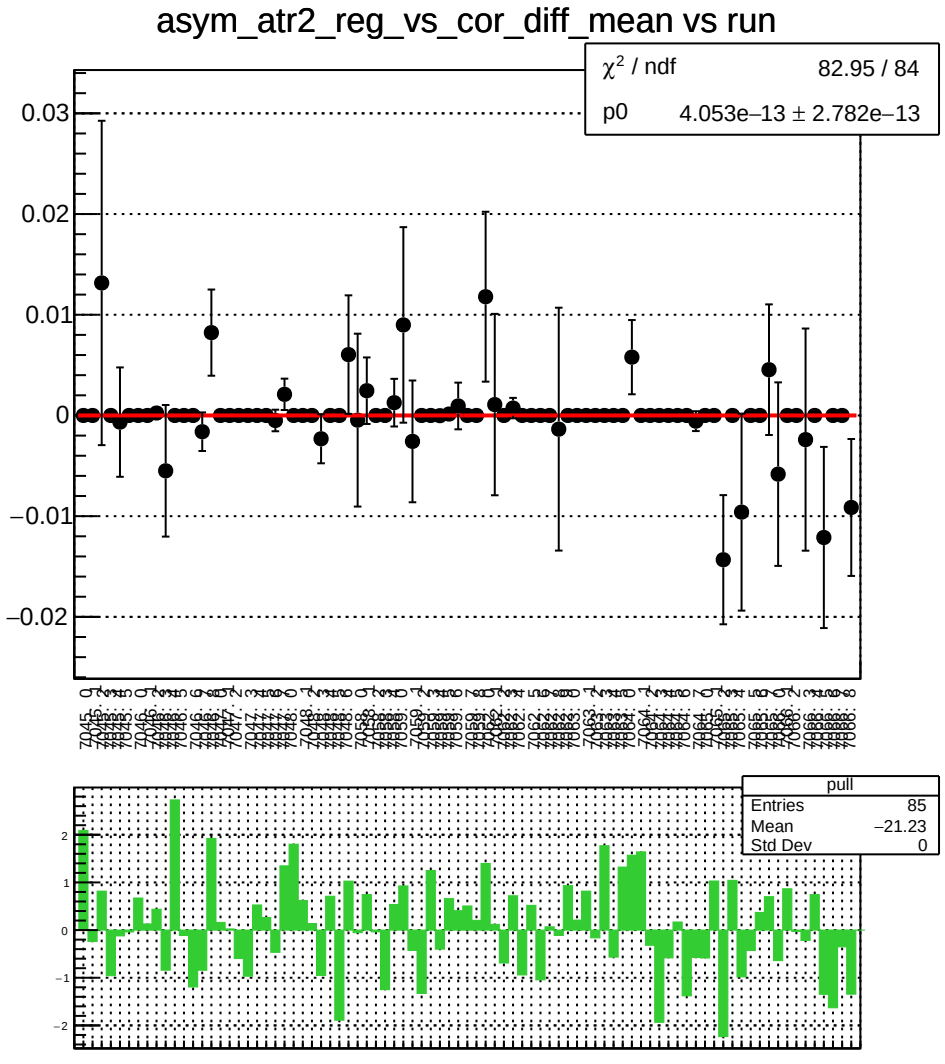

pull1D
Entries 85
Mean −0.04602
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

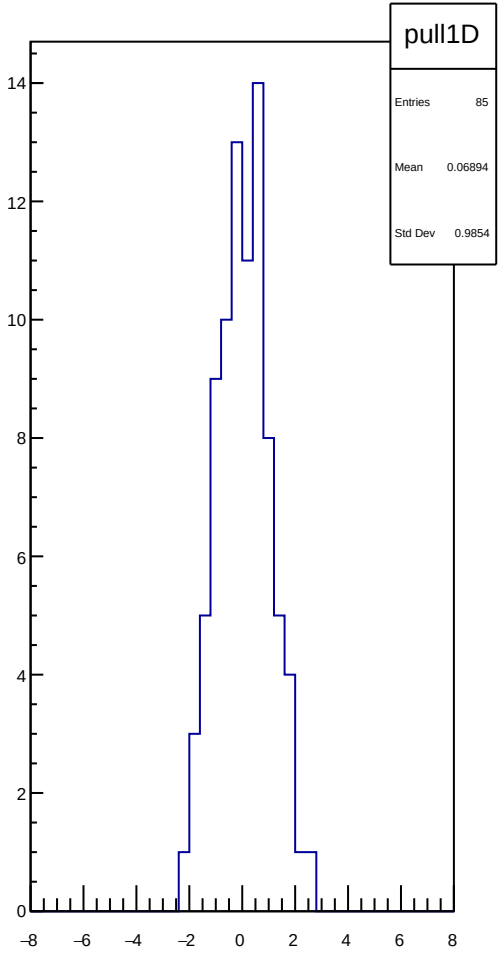

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3.51e+04 / 84
p0 1.02e+04 ± 8.036
14000
13000
12000
11000
10000
9000
8000

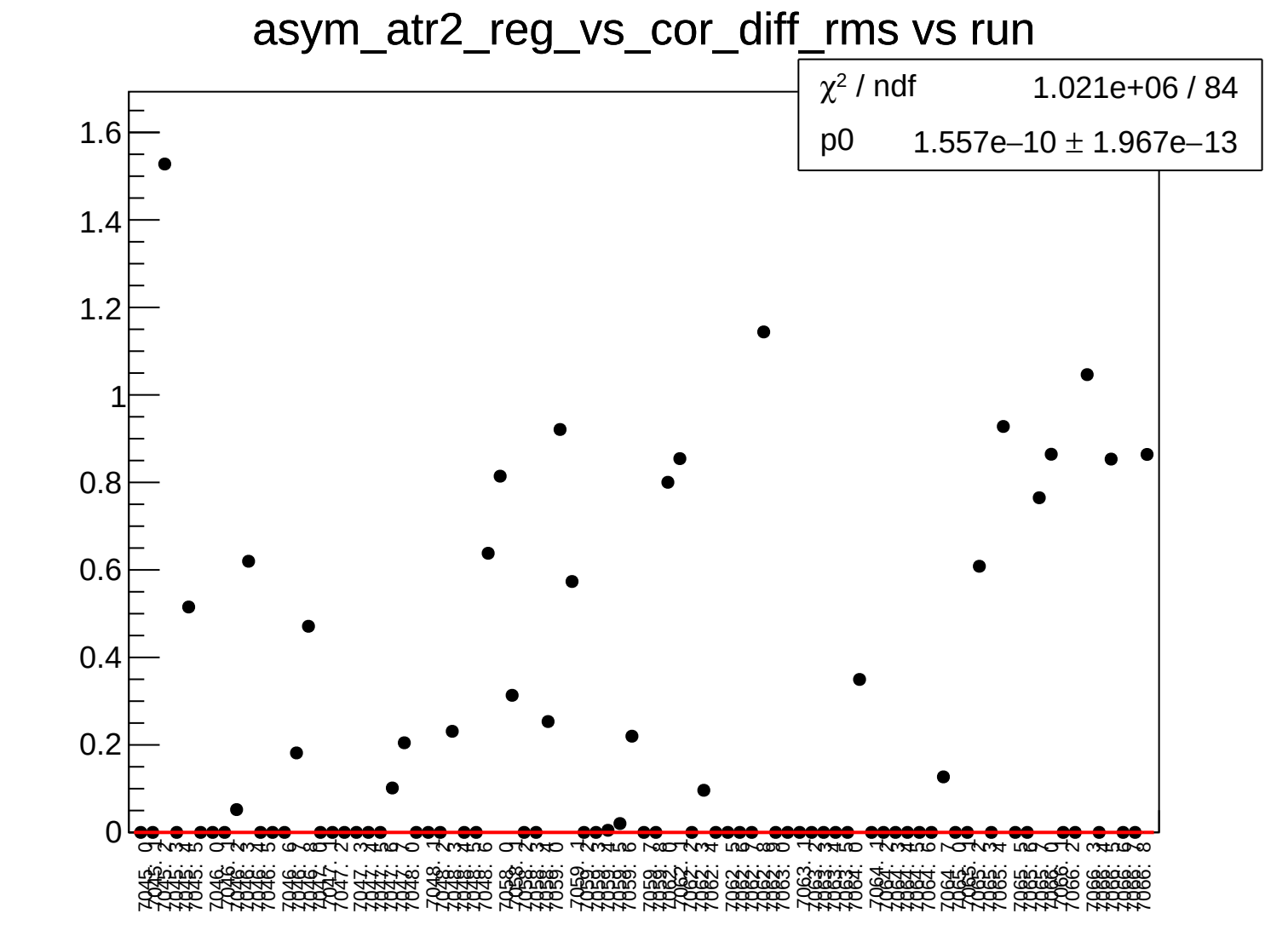

asym_atr2_mean vs run
×10^3
χ² / ndf 78.4 / 84
p0 5997 ± 1.113e+04
pull
Entries 85
Mean 161.8
Std Dev 0

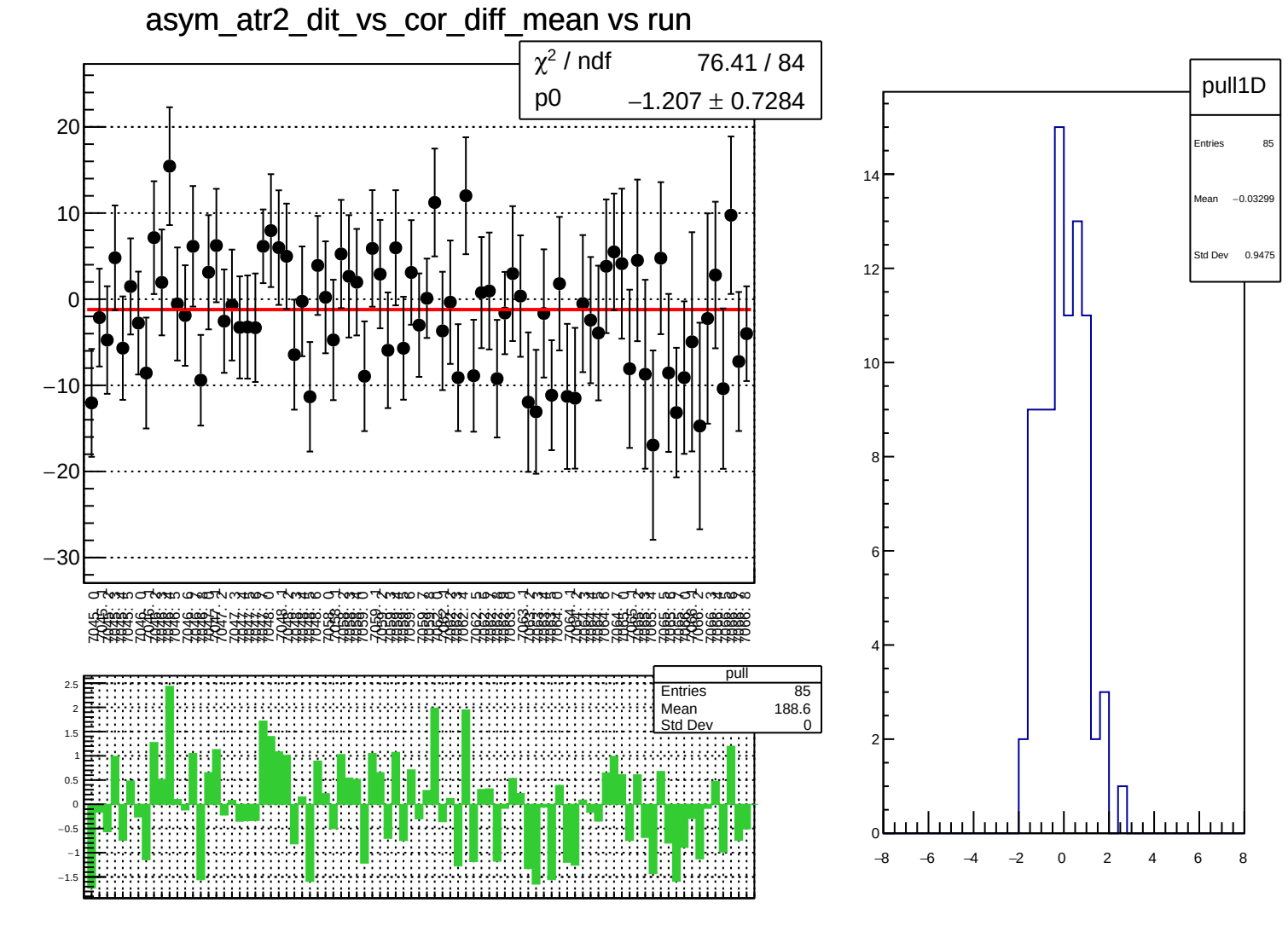

pull1D
Entries 85
Mean 0.04816
Std Dev 0.9592

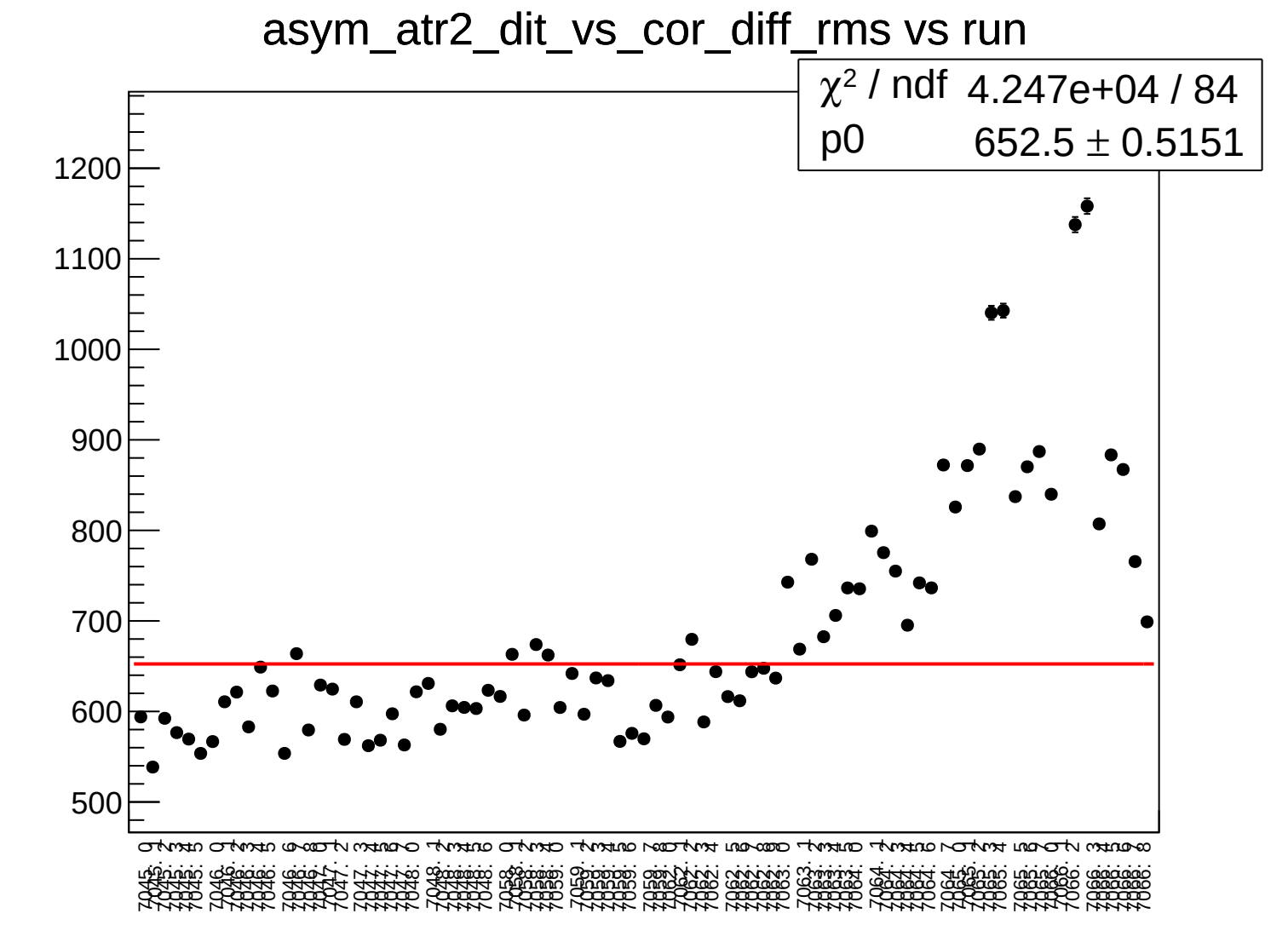

asym_atr2_rms vs run
χ² / ndf 3.194e+04 / 84
p0 1e+04 ± 7.87
14000
13000
12000
11000
10000
9000
8000

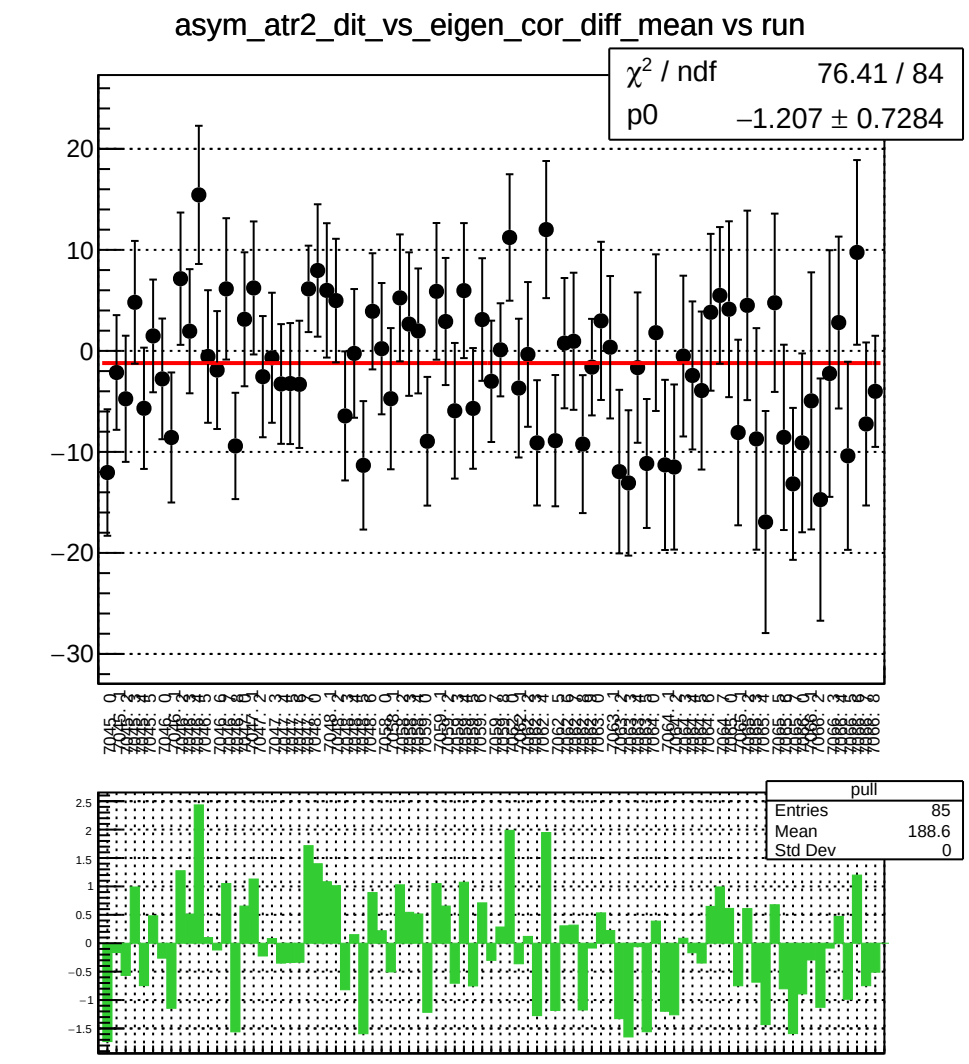

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 84
p0 4.053e−13 ± 2.782e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −21.23
Std Dev 0
2
1
0
−1
−2

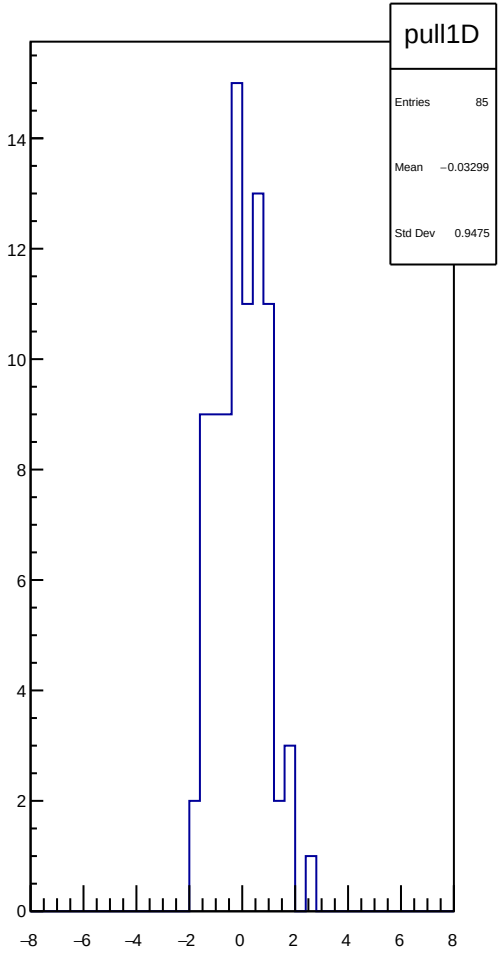

pull1D
Entries 85
Mean 0.06894
Std Dev 0.9854
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

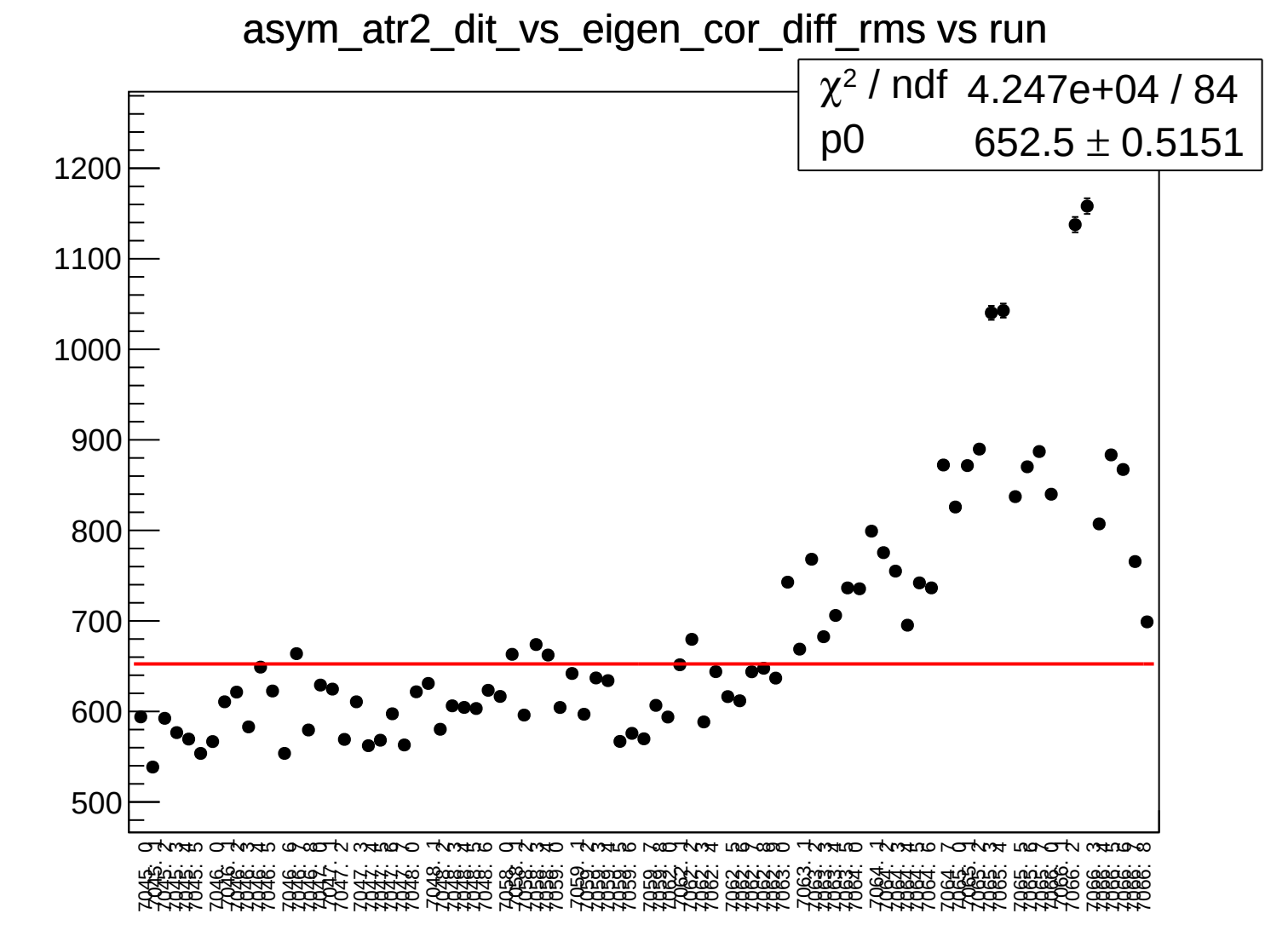

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.021e+06 / 84
p0 1.557e−10 ± 1.967e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

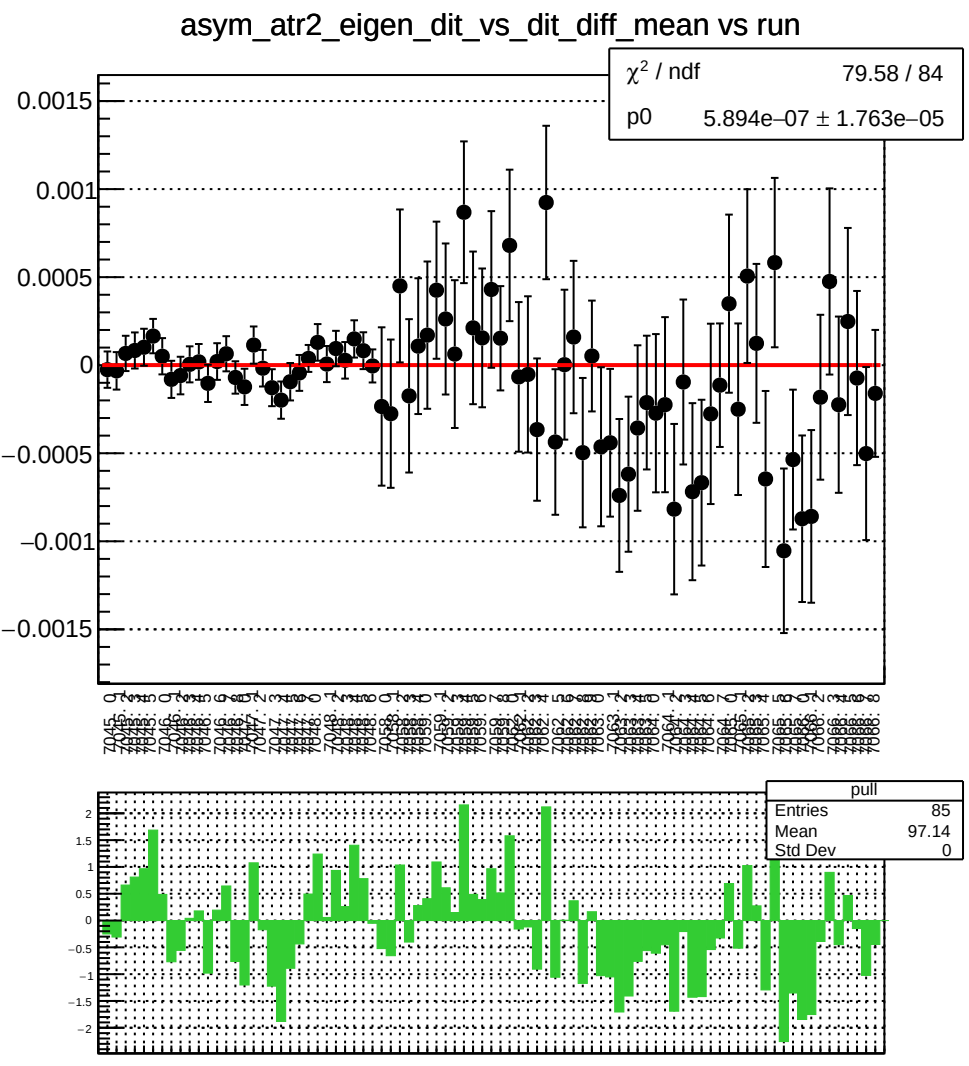

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 84
p0 −1.207 ± 0.7284
pull
Entries 85
Mean 188.6
Std Dev 0
pull1D
Entries 85
Mean −0.03299
Std Dev 0.9475

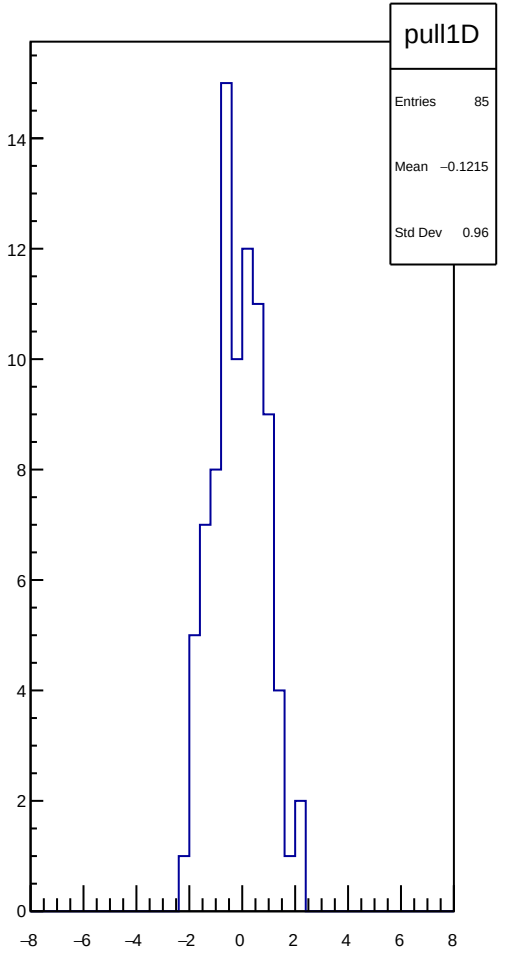

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.247e+04 / 84
p0 652.5 ± 0.5151
1200
1100
1000
900
800
700
600
500

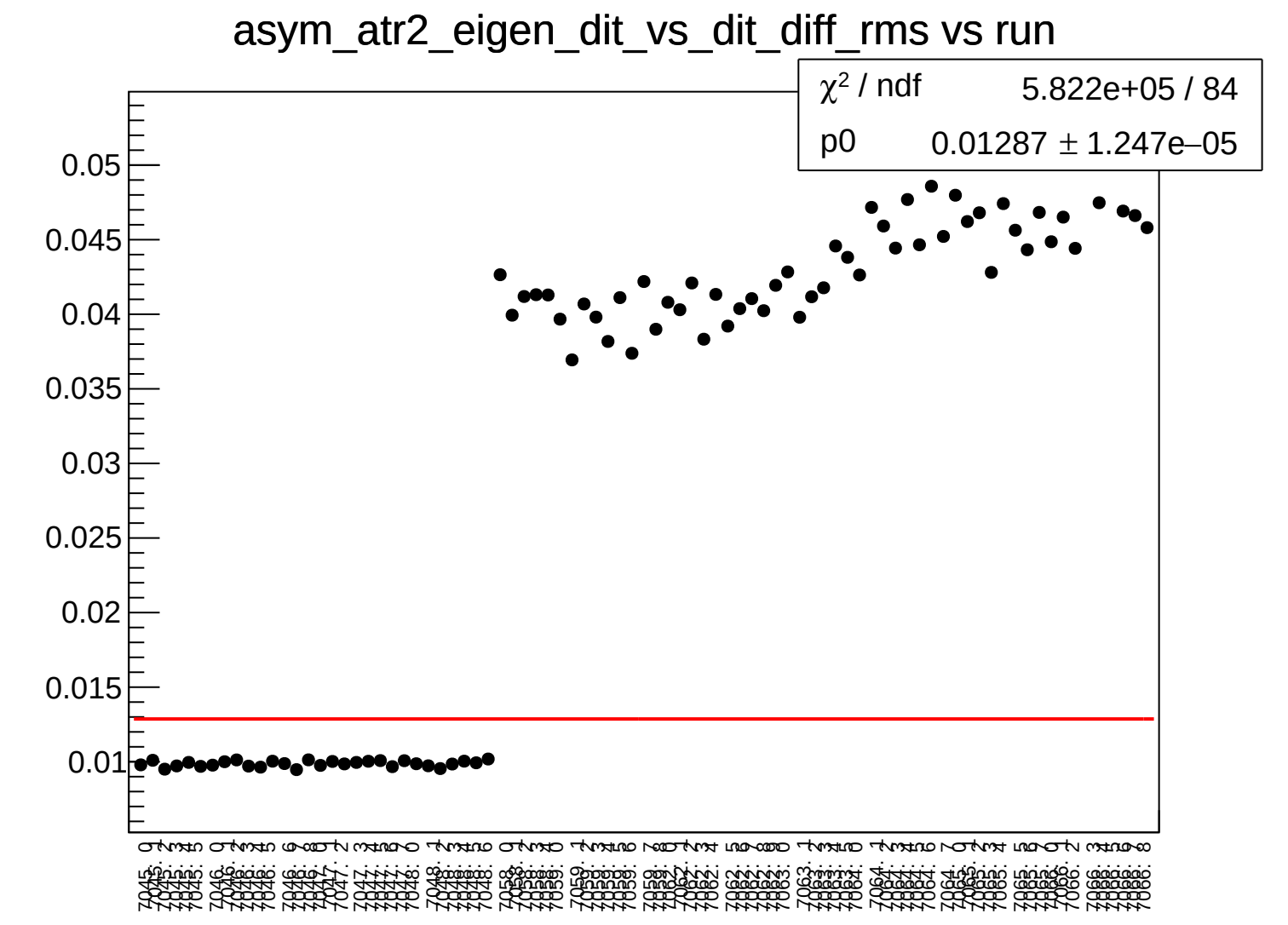

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.41 / 84
p0 −1.207 ± 0.7284
pull
Entries 85
Mean 188.6
Std Dev 0

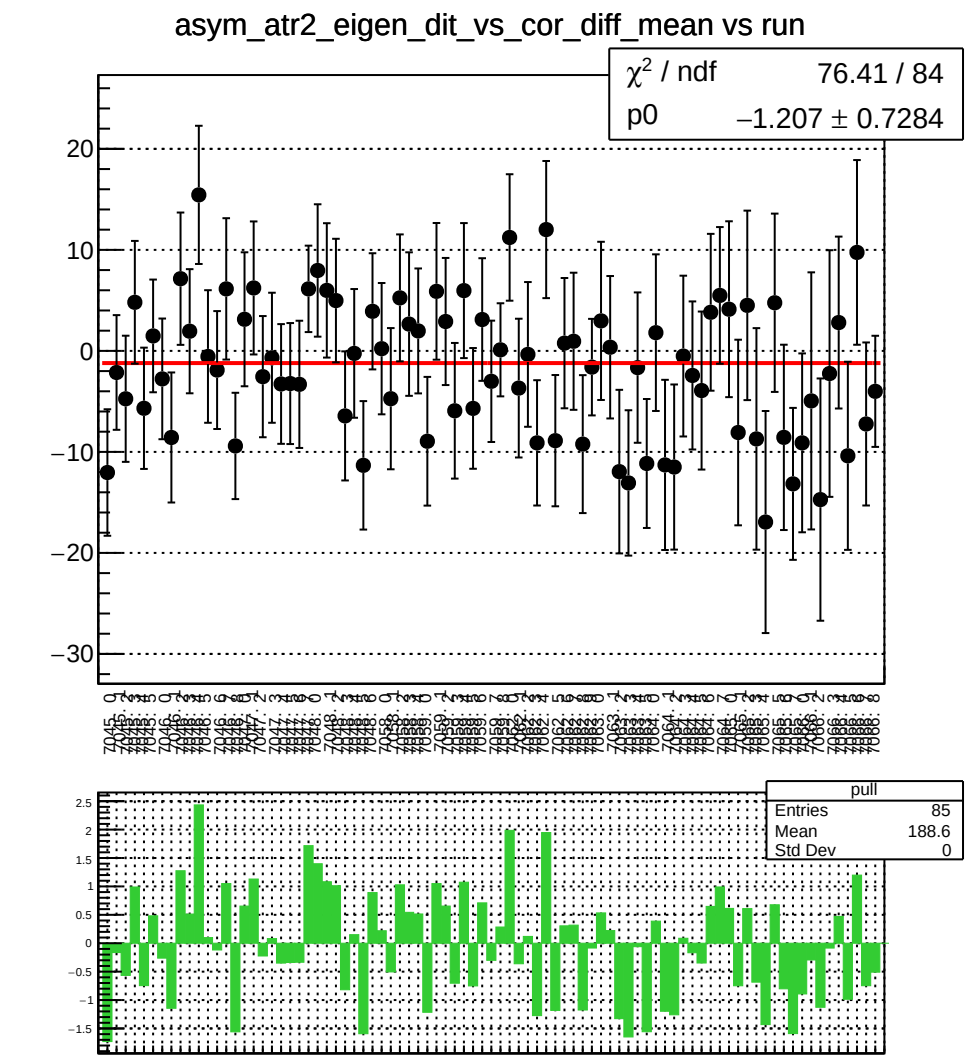

pull1D
Entries 85
Mean −0.03299
Std Dev 0.9475

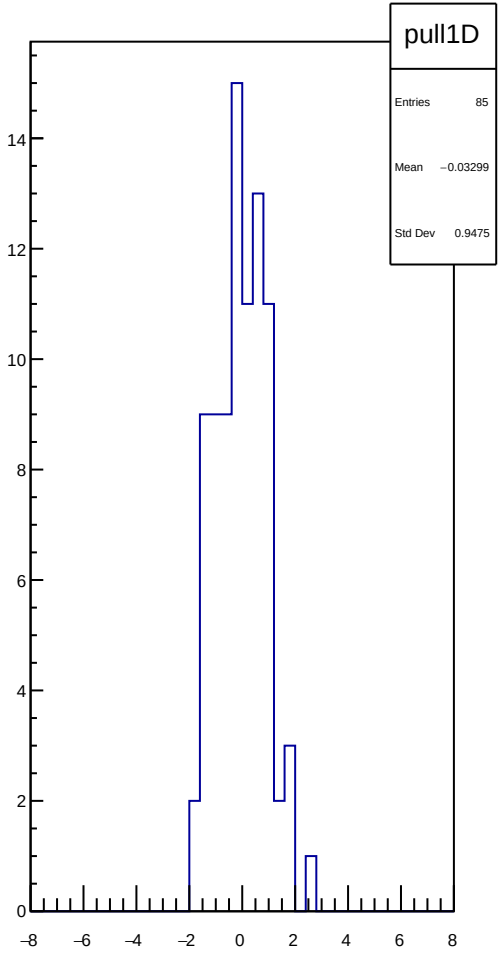

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.247e+04 / 84
p0 652.5 ± 0.5151
1200
1100
1000
900
800
700
600
500

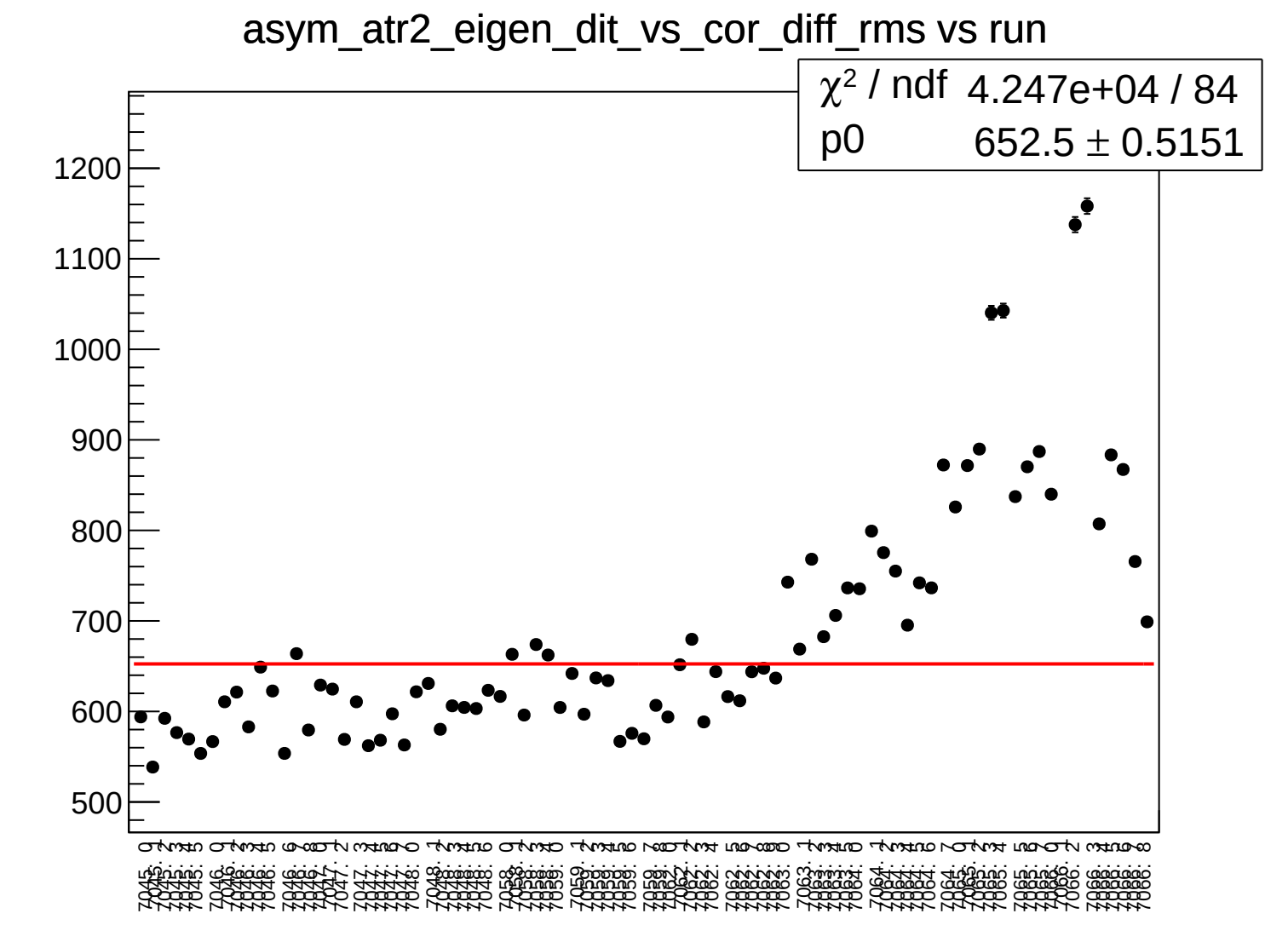

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.58 / 84
p0 5.894e−07 ± 1.763e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 97.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

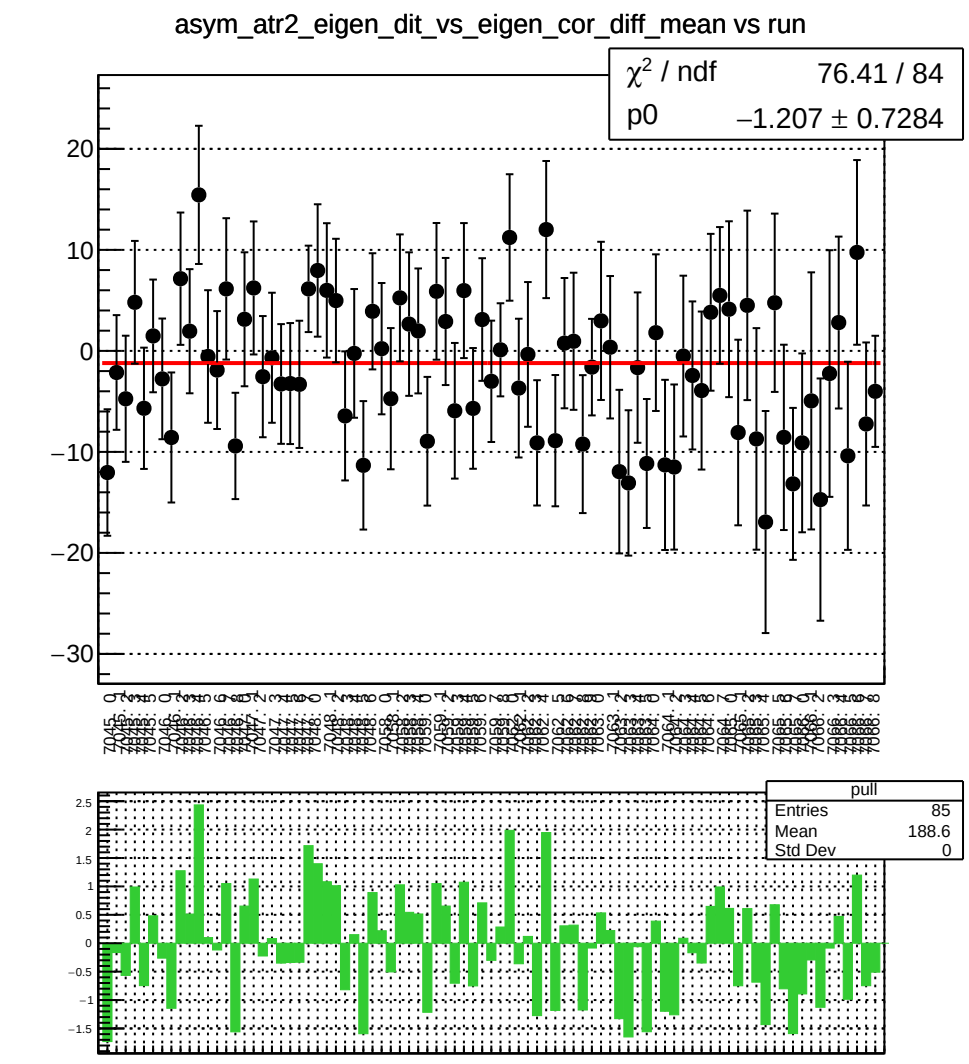

pull1D
Entries 85
Mean −0.1215
Std Dev 0.96
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

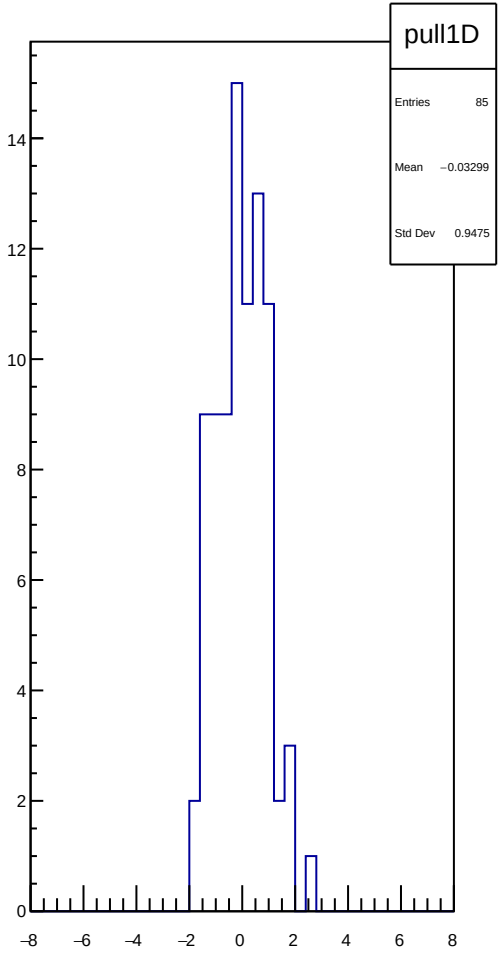

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.822e+05 / 84
p0 0.01287 ± 1.247e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

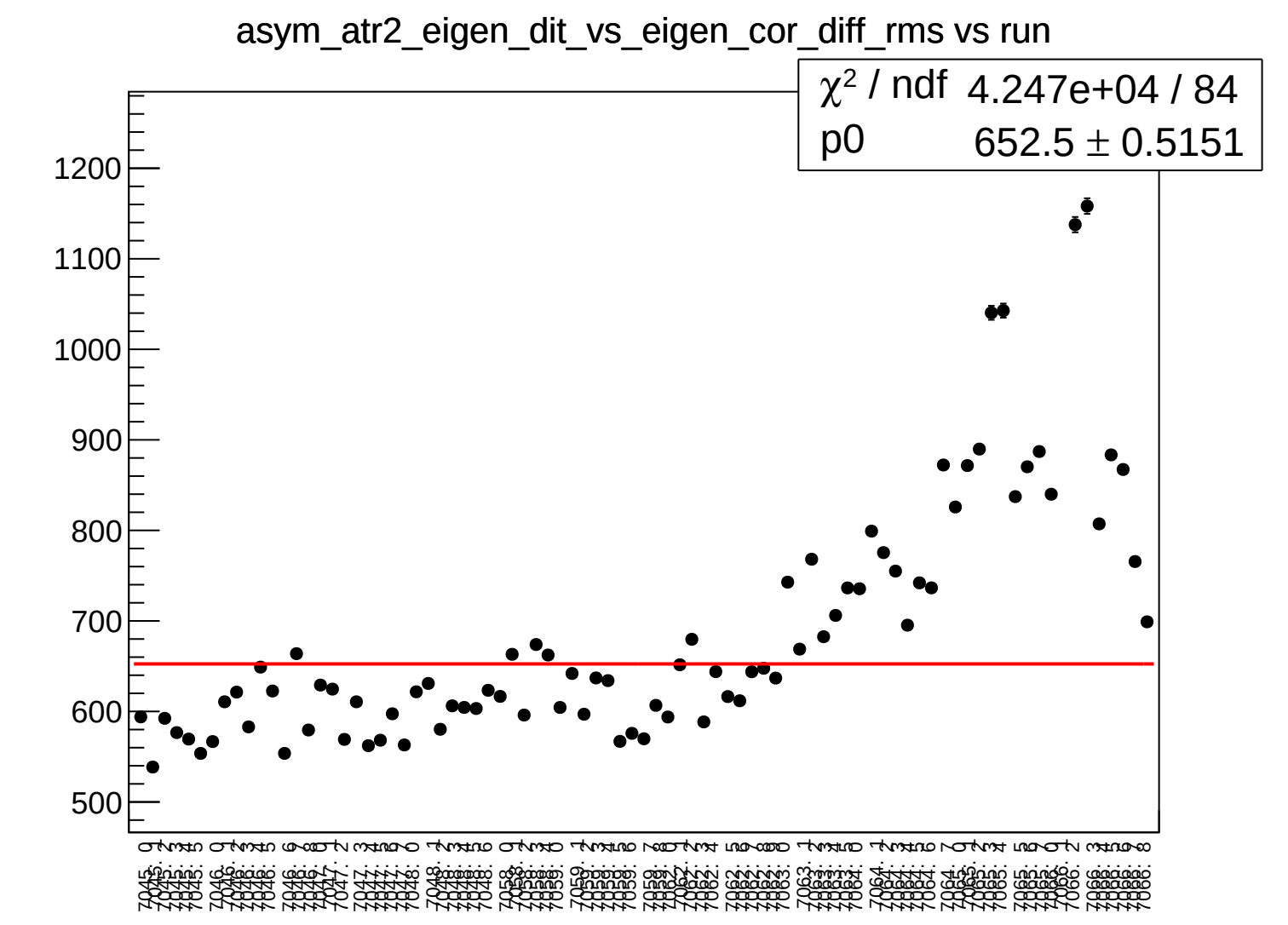

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 84
p0 −1.207 ± 0.7284
pull
Entries 85
Mean 188.6
Std Dev 0

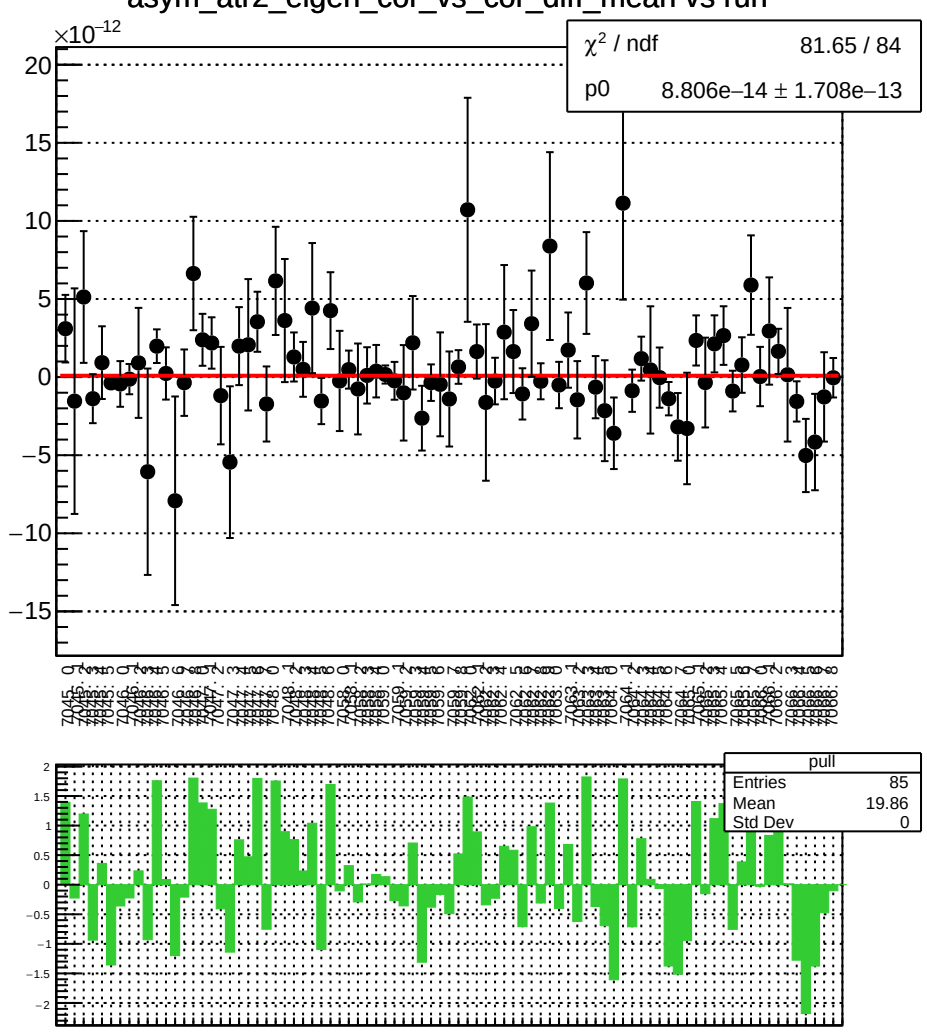

pull1D
Entries 85
Mean −0.03299
Std Dev 0.9475

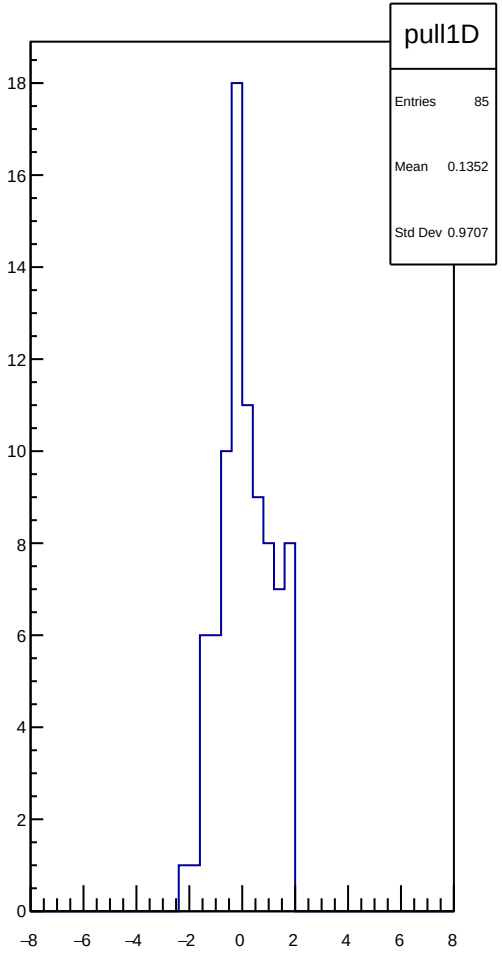

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.247e+04 / 84
p0 652.5 ± 0.5151
1200
1100
1000
900
800
700
600
500

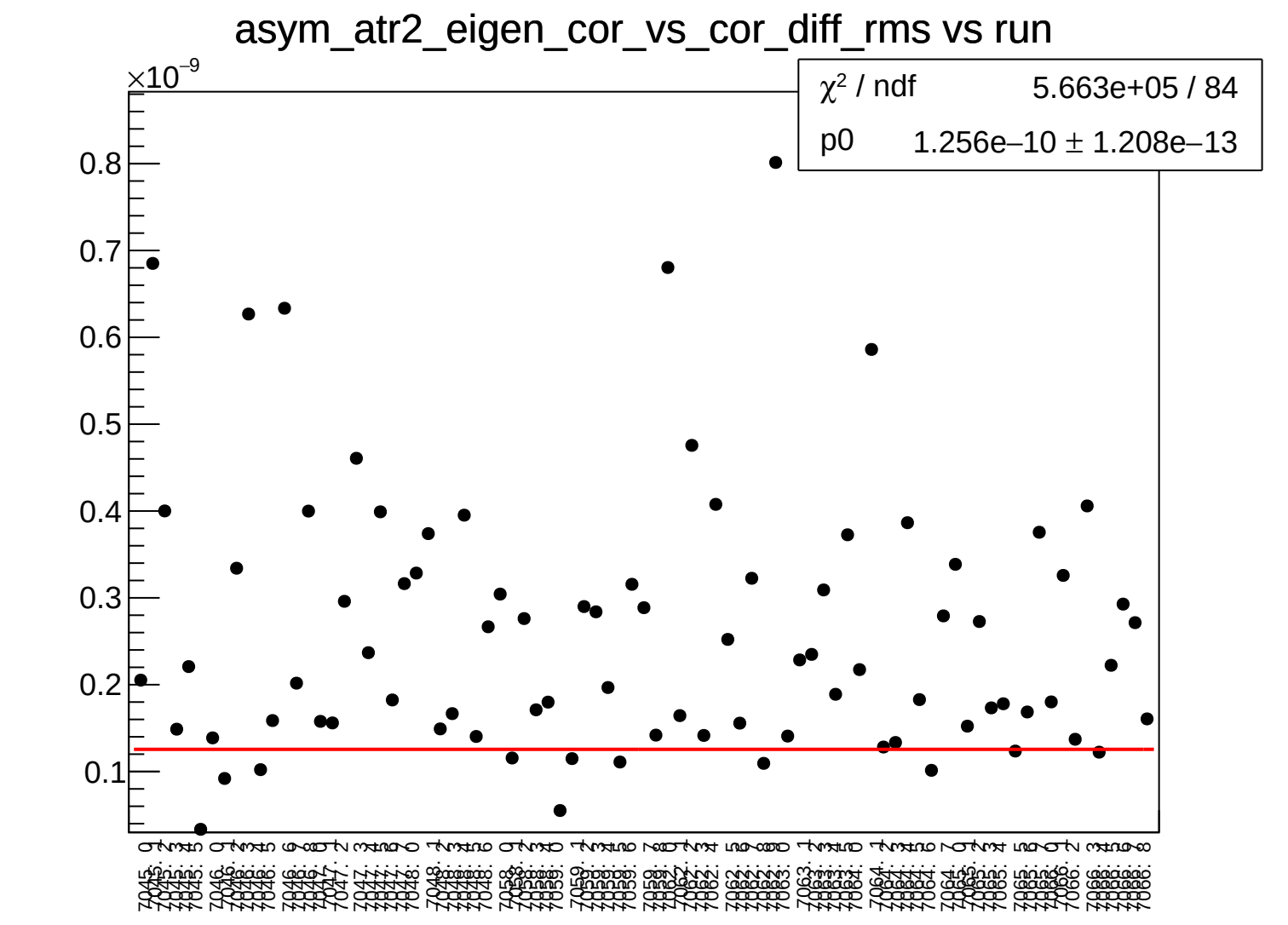

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.41 / 84
p0 −1.207 ± 0.7284
pull
Entries 85
Mean 188.6
Std Dev 0

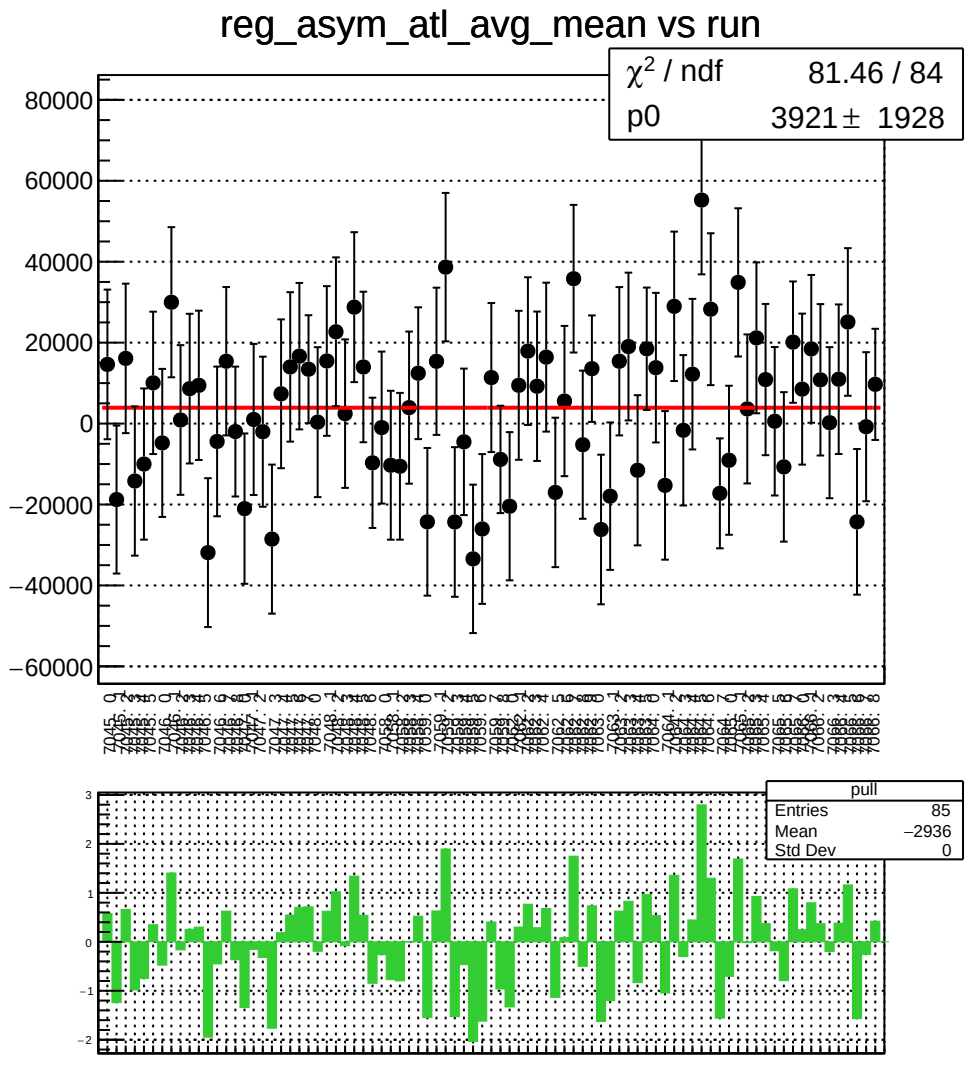

pull1D
Entries 85
Mean −0.03299
Std Dev 0.9475

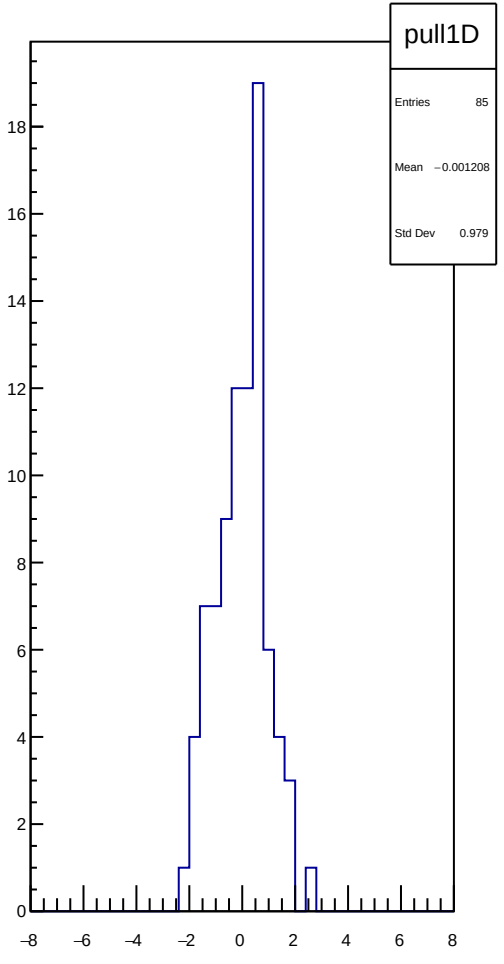

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.247e+04 / 84
p0 652.5 ± 0.5151
1200
1100
1000
900
800
700
600
500

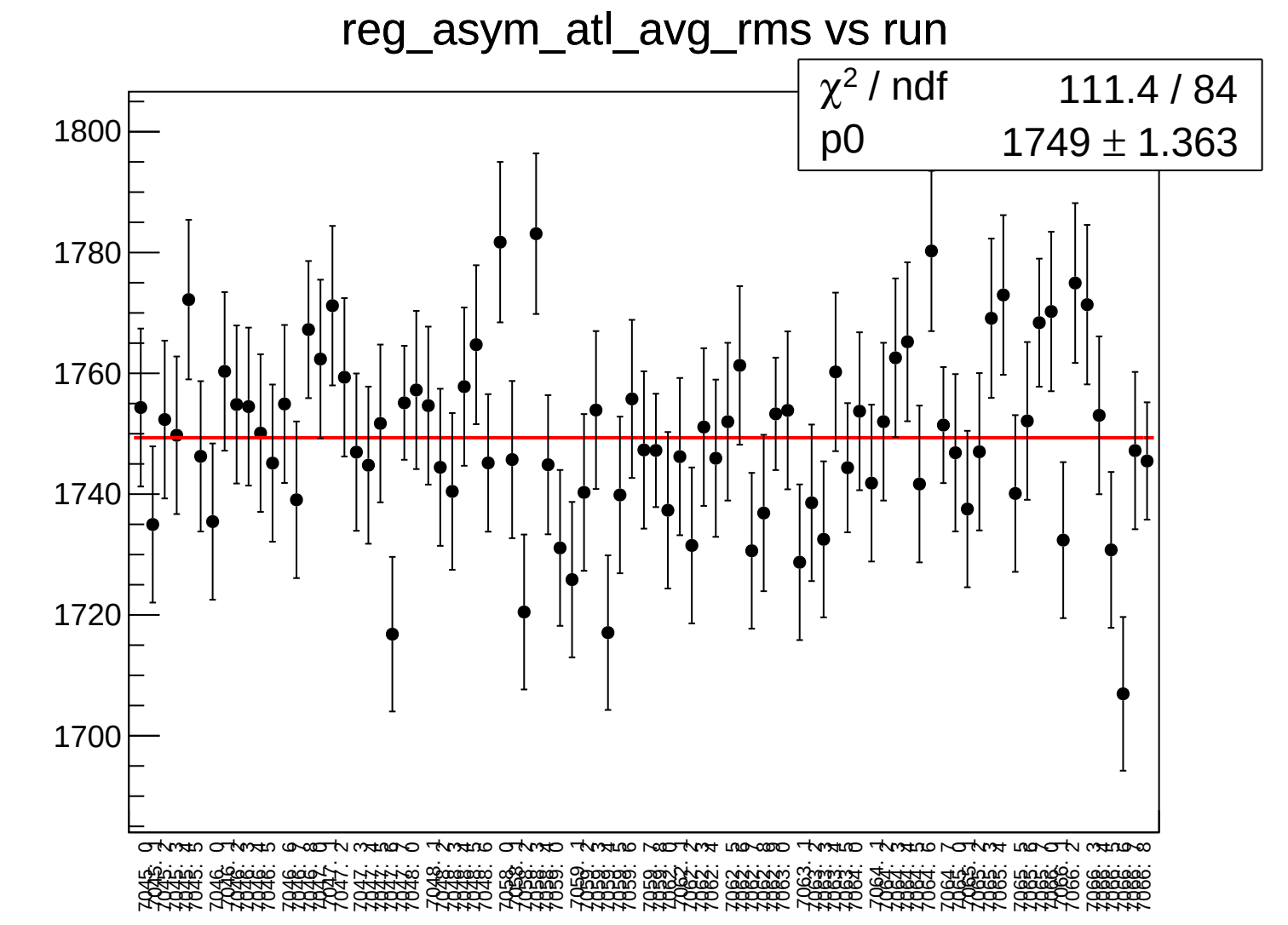

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.65 / 84
p0 8.806e−14 ± 1.708e−13
pull
Entries 85
Mean 19.86
Std Dev 0

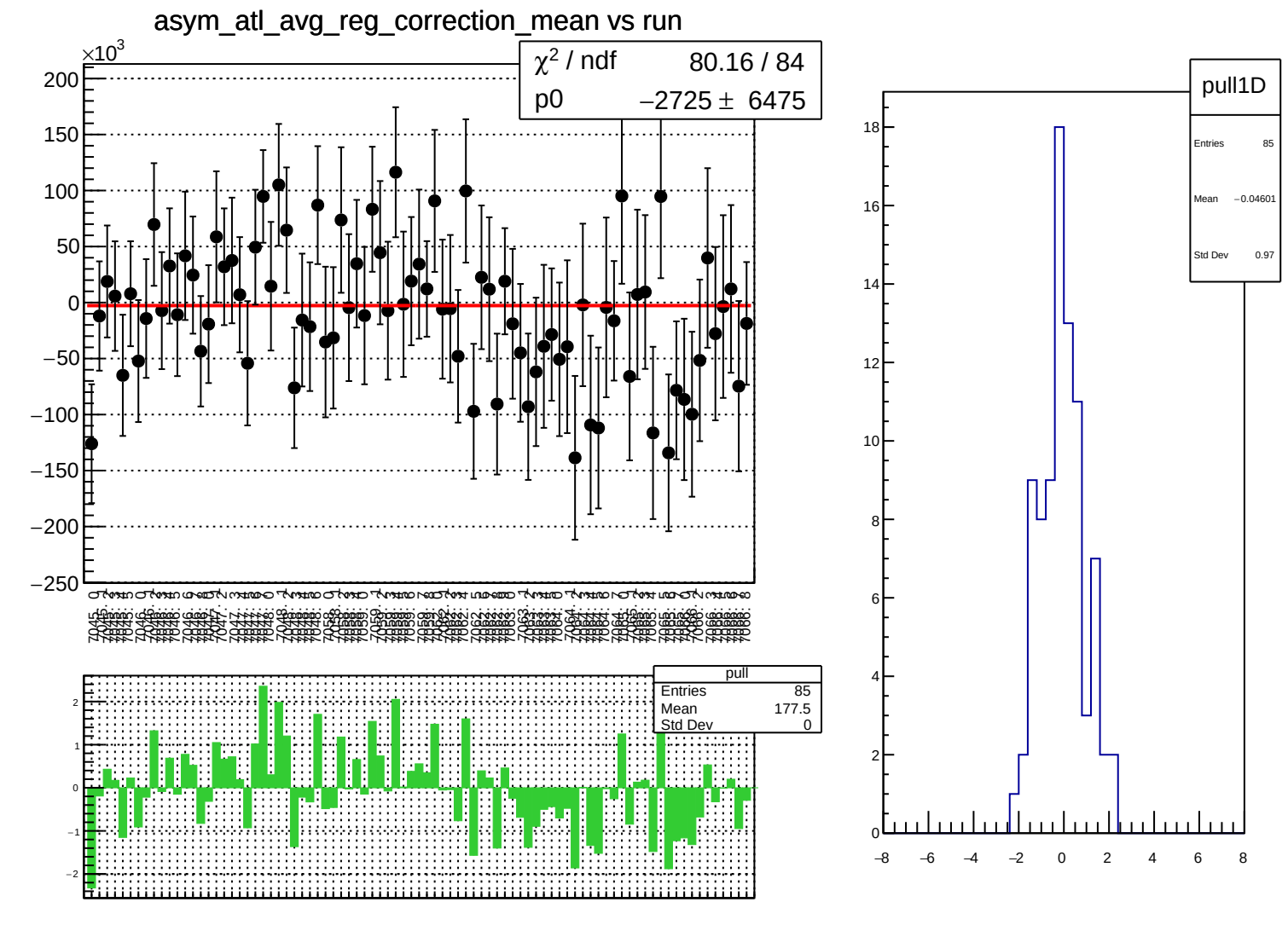

pull1D
Entries 85
Mean 0.1352
Std Dev 0.9707

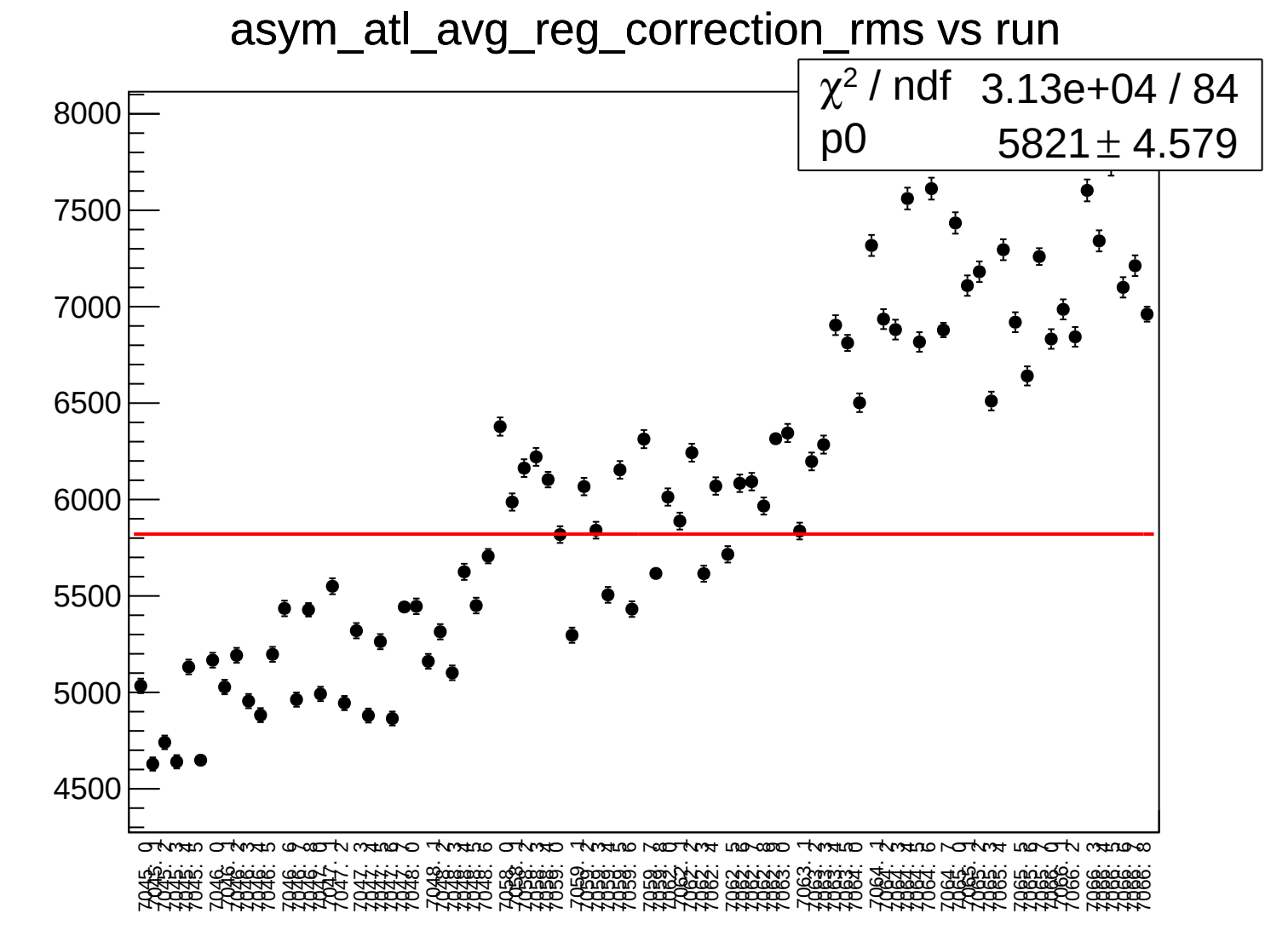

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.663e+05 / 84
p0 1.256e−10 ± 1.208e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

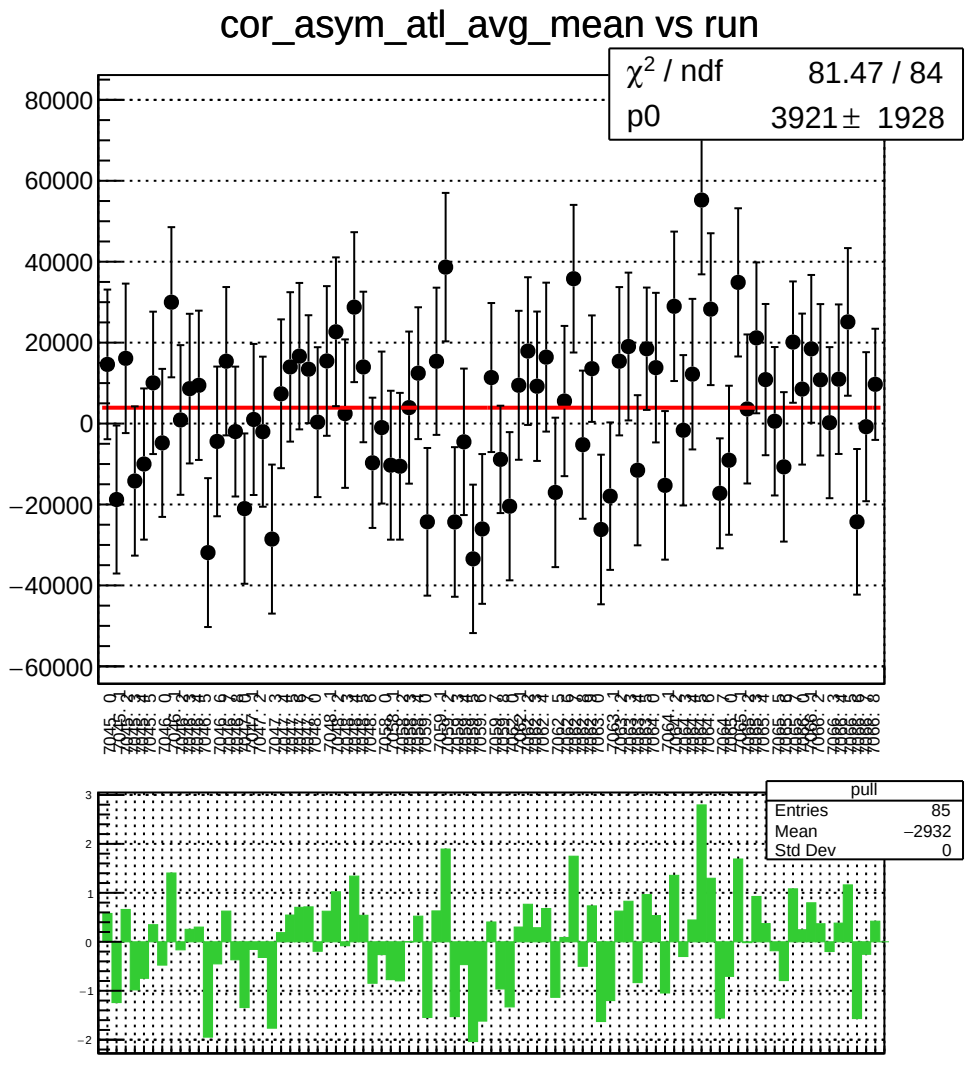

reg_asym_atl_avg_mean vs run
χ² / ndf 81.46 / 84
p0 3921 ± 1928
pull
Entries 85
Mean −2936
Std Dev 0

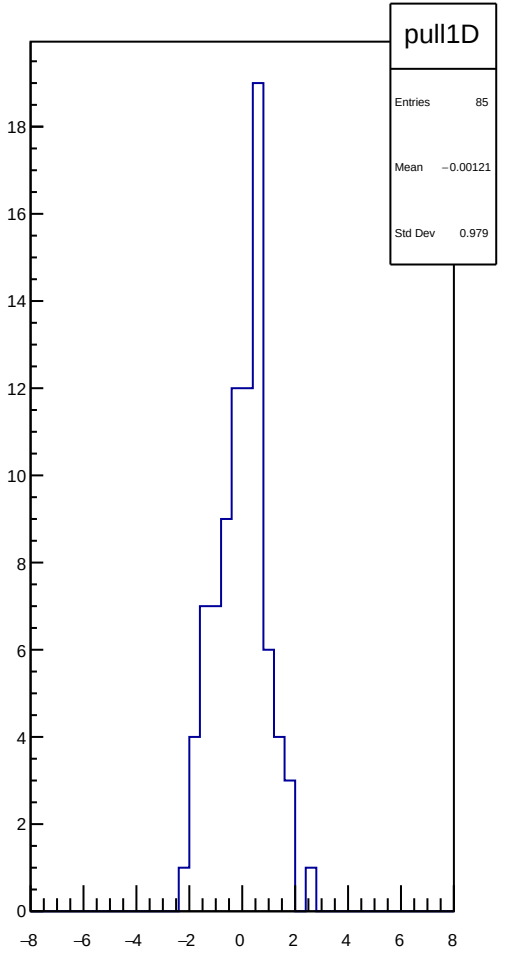

pull1D
Entries 85
Mean −0.001208
Std Dev 0.979

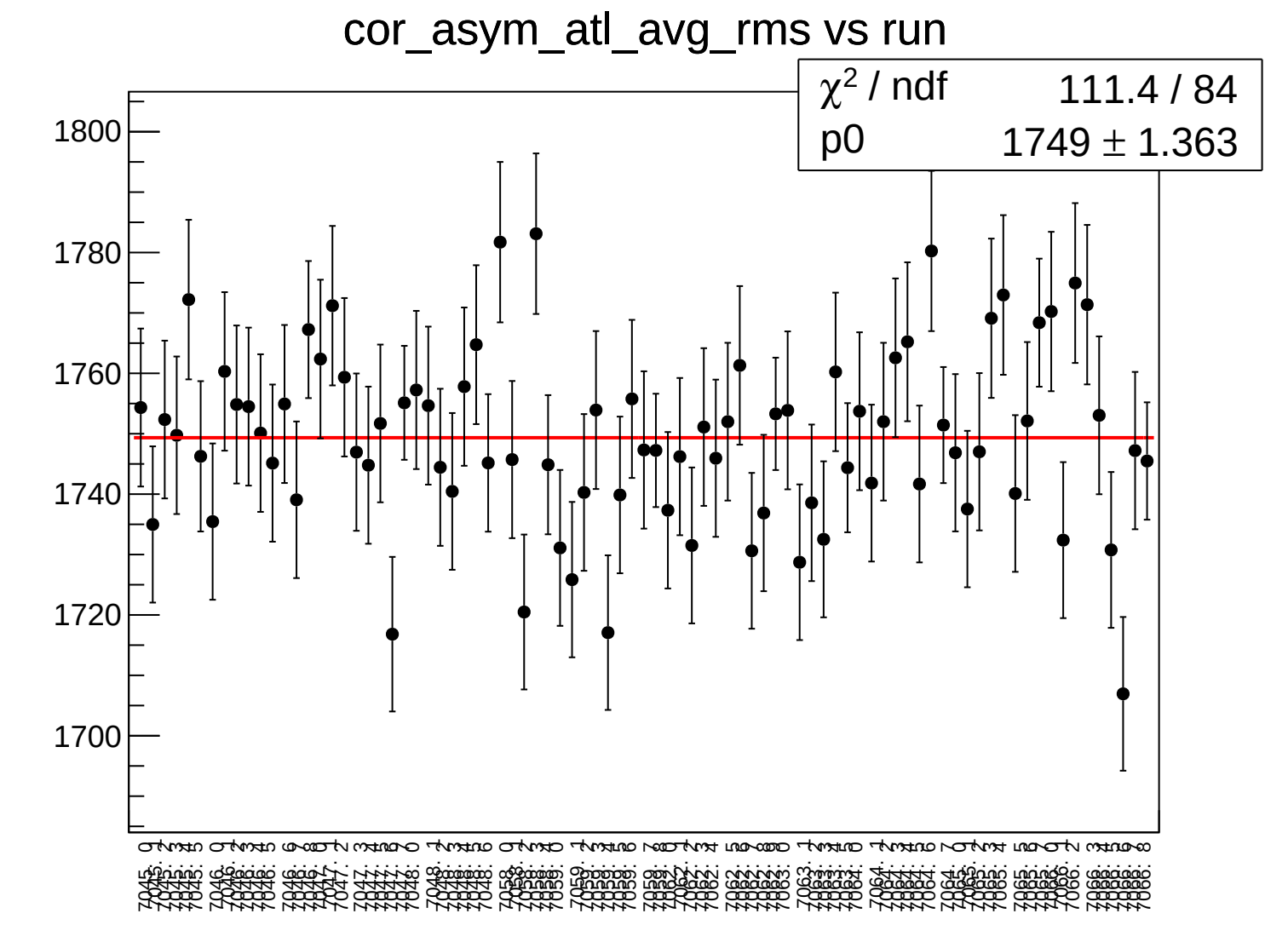

reg_asym_atl_avg_rms vs run
χ^2 / ndf 111.4 / 84
p0 1749 ± 1.363
1800
1780
1760
1740
1720
1700

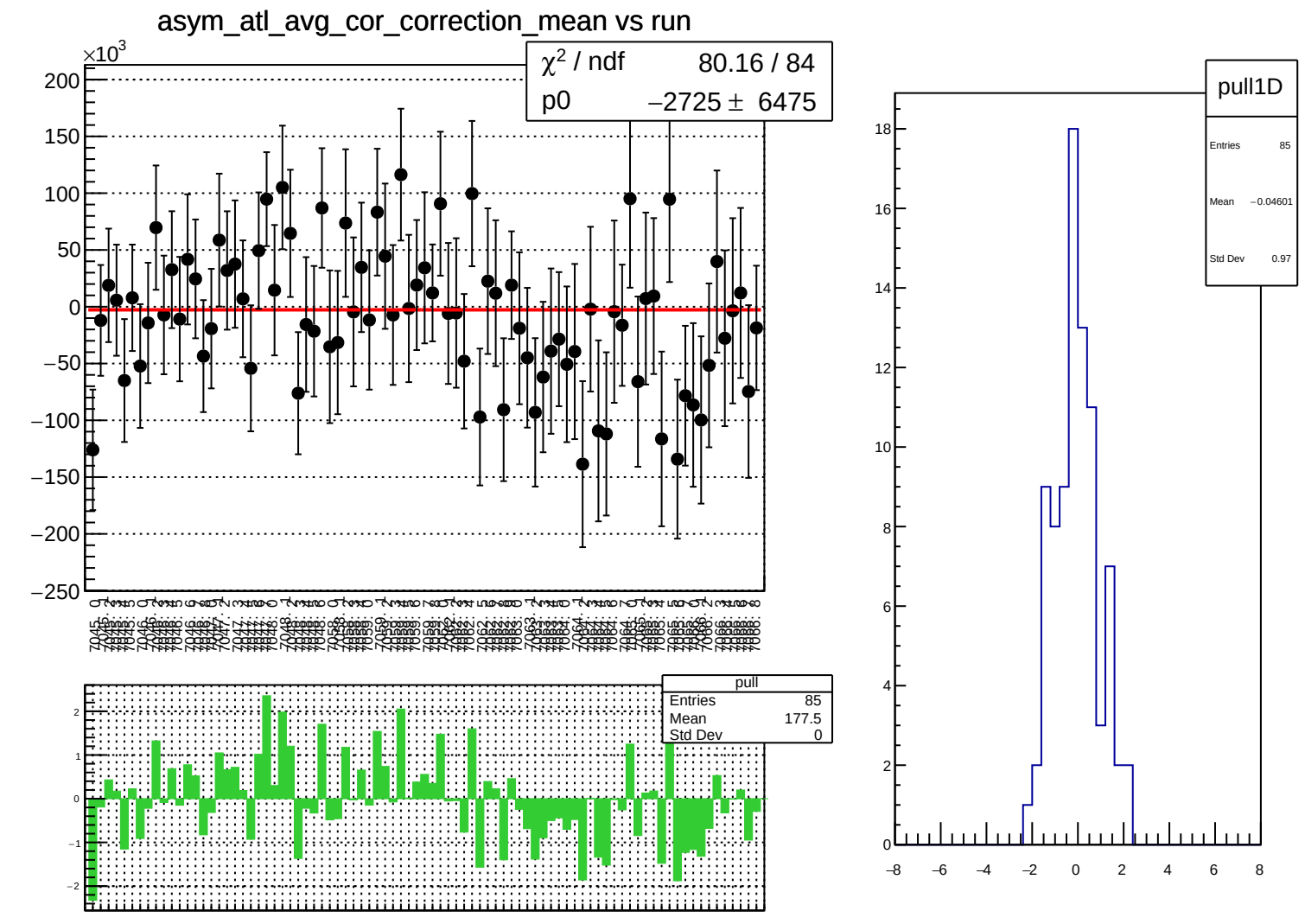

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 80.16 / 84
p0 −2725 ± 6475
pull
Entries 85
Mean 177.5
Std Dev 0
pull1D
Entries 85
Mean −0.04601
Std Dev 0.97

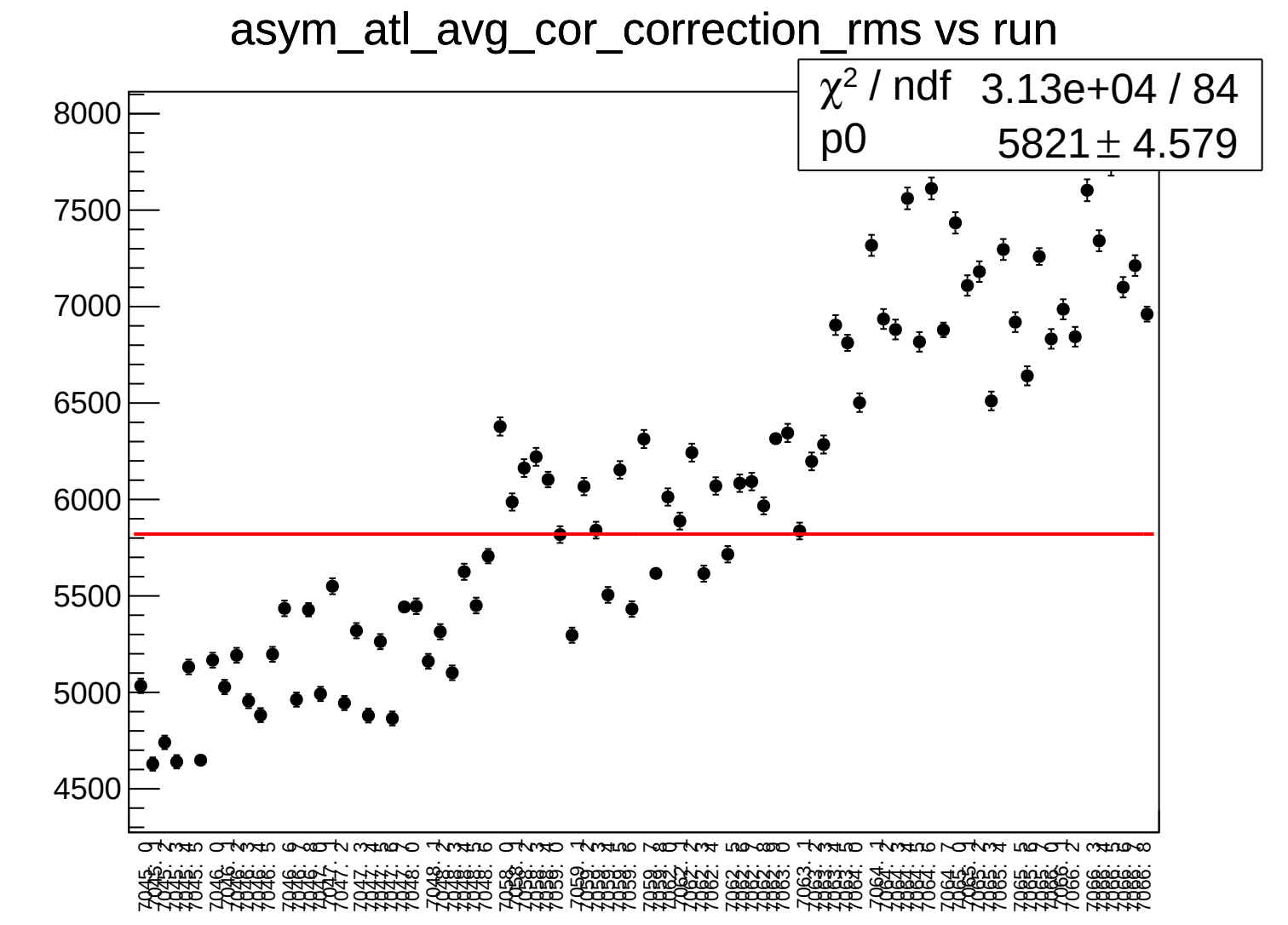

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 3.13e+04 / 84
p0 5821 ± 4.579
8000
7500
7000
6500
6000
5500
5000
4500

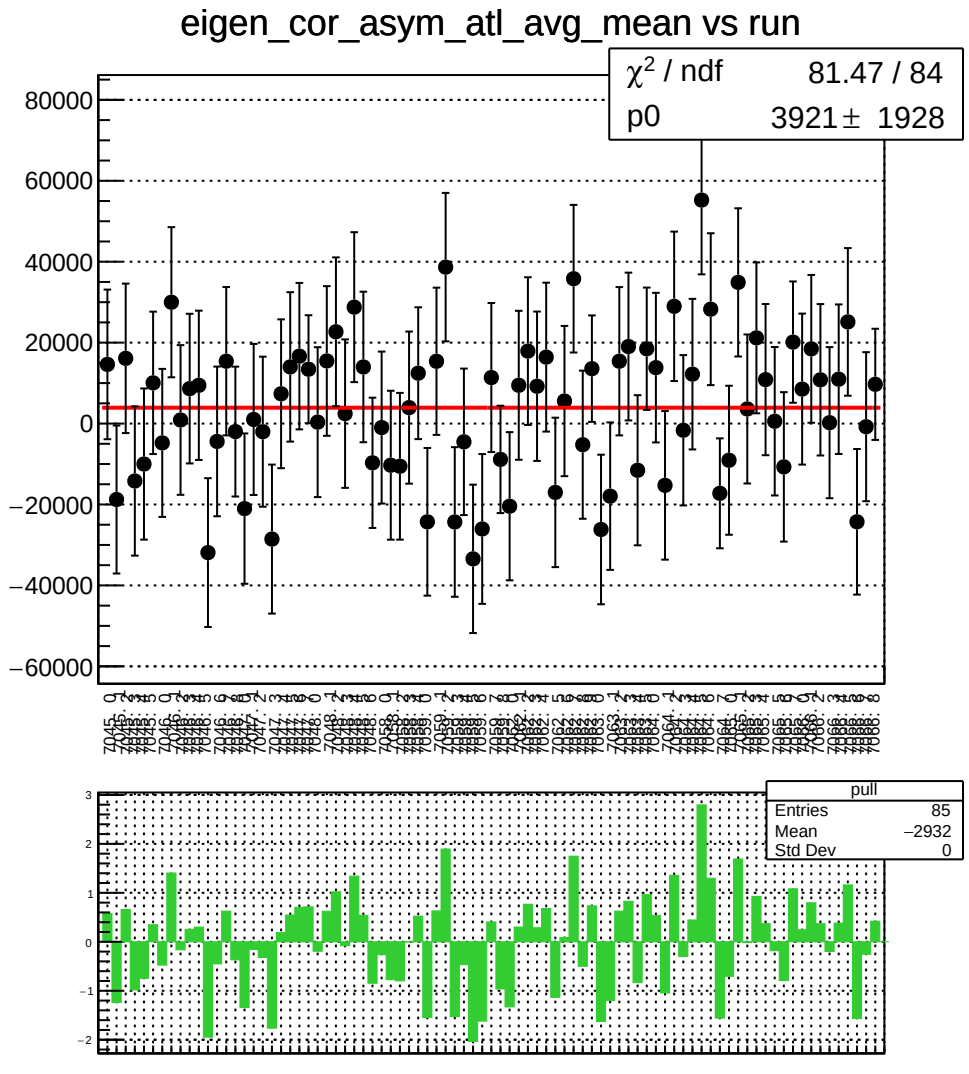

cor_asym_atl_avg_mean vs run
χ² / ndf 81.47 / 84
p0 3921 ± 1928
pull
Entries 85
Mean −2932
Std Dev 0

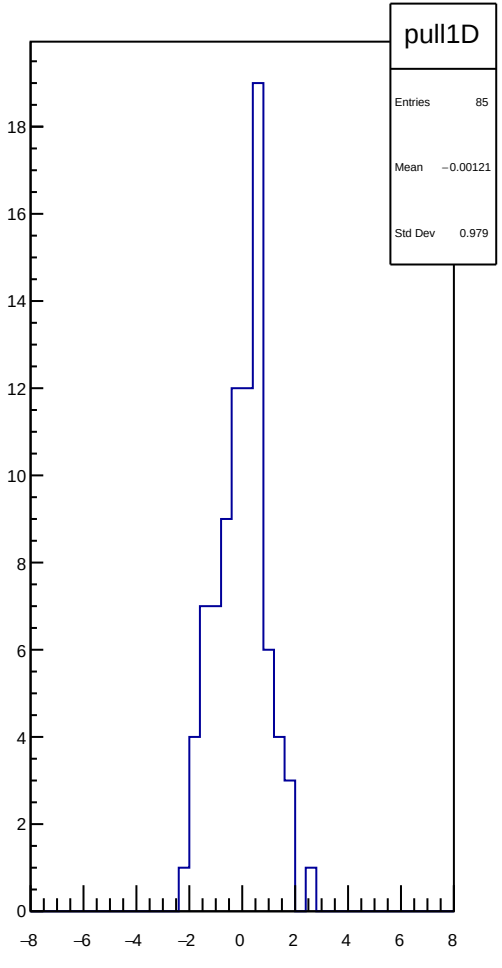

pull1D
Entries 85
Mean −0.00121
Std Dev 0.979

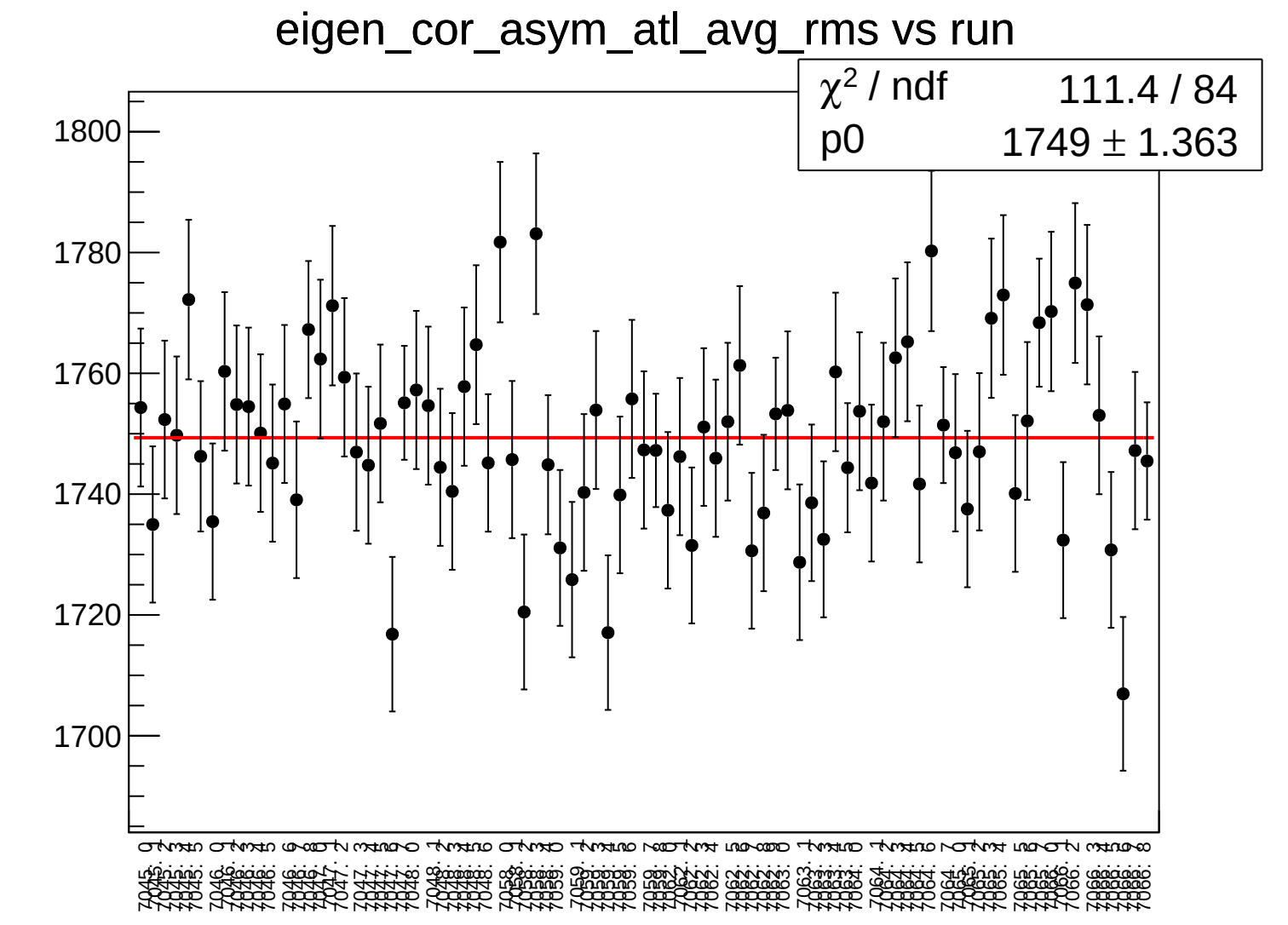

cor_asym_atl_avg_rms vs run
χ^2 / ndf 111.4 / 84
p0 1749 ± 1.363
1800
1780
1760
1740
1720
1700

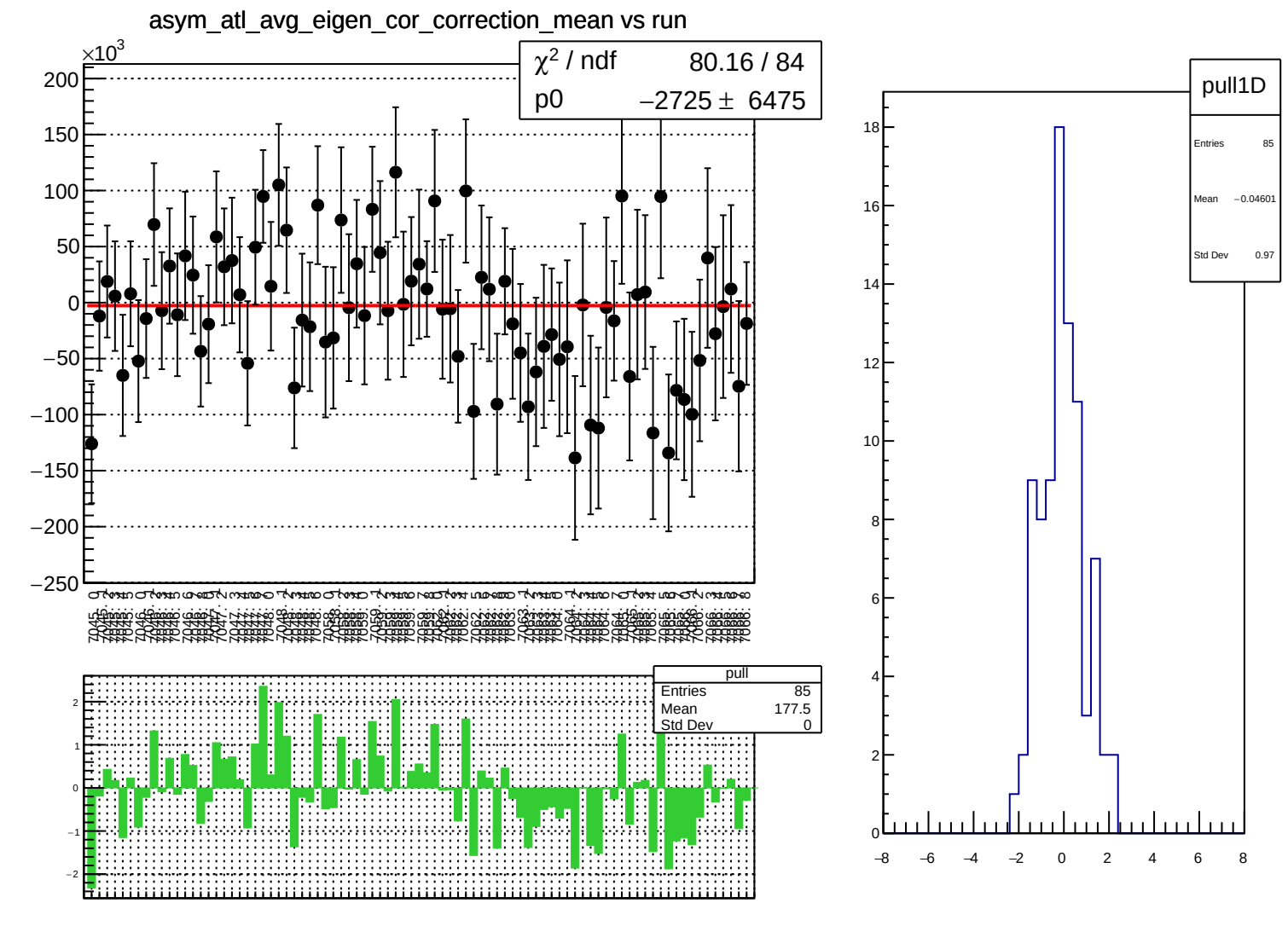

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 80.16 / 84
p0 −2725 ± 6475
pull
Entries 85
Mean 177.5
Std Dev 0
pull1D
Entries 85
Mean −0.04601
Std Dev 0.97

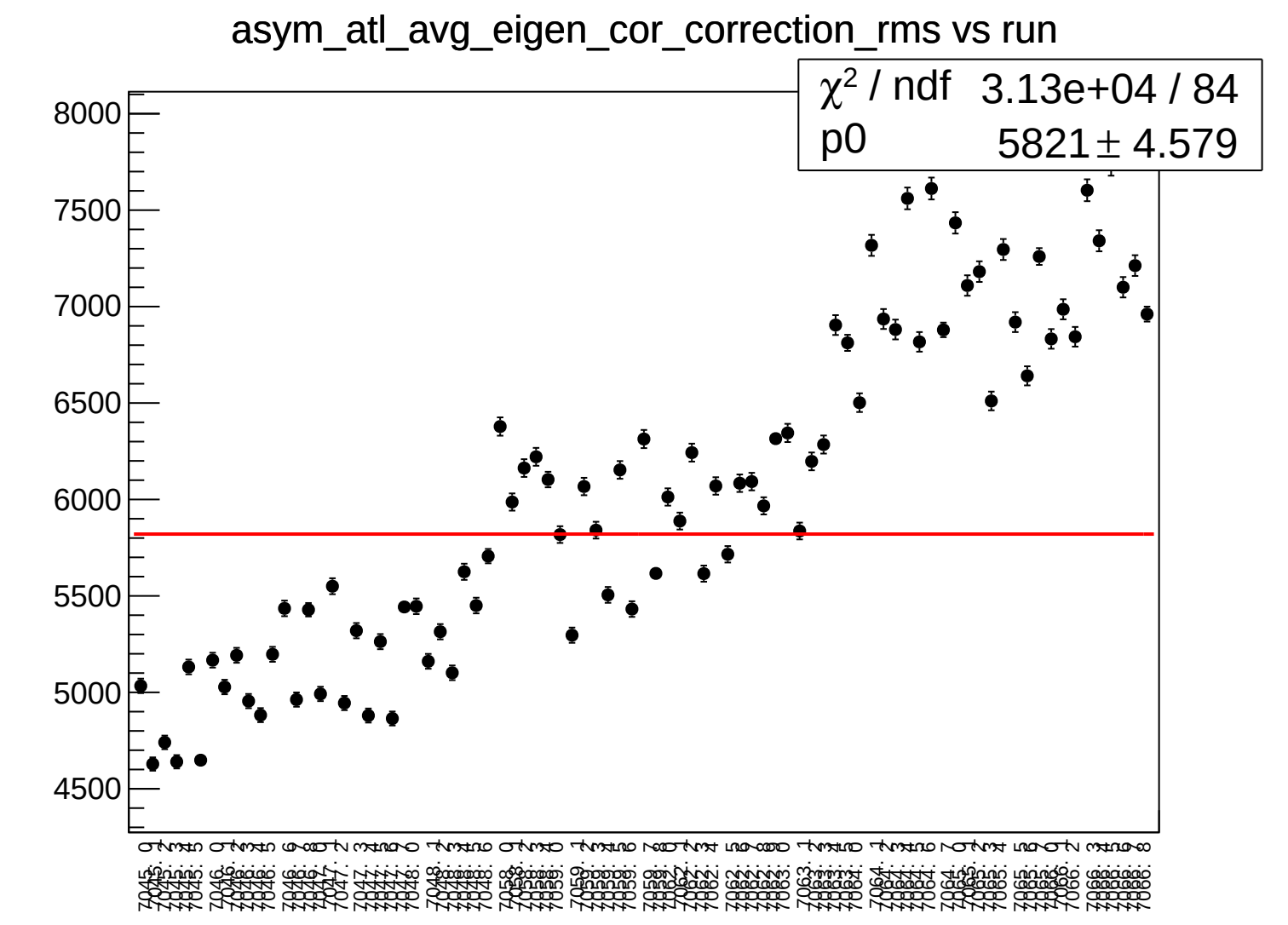

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3.13e+04 / 84
p0 5821 ± 4.579
8000
7500
7000
6500
6000
5500
5000
4500

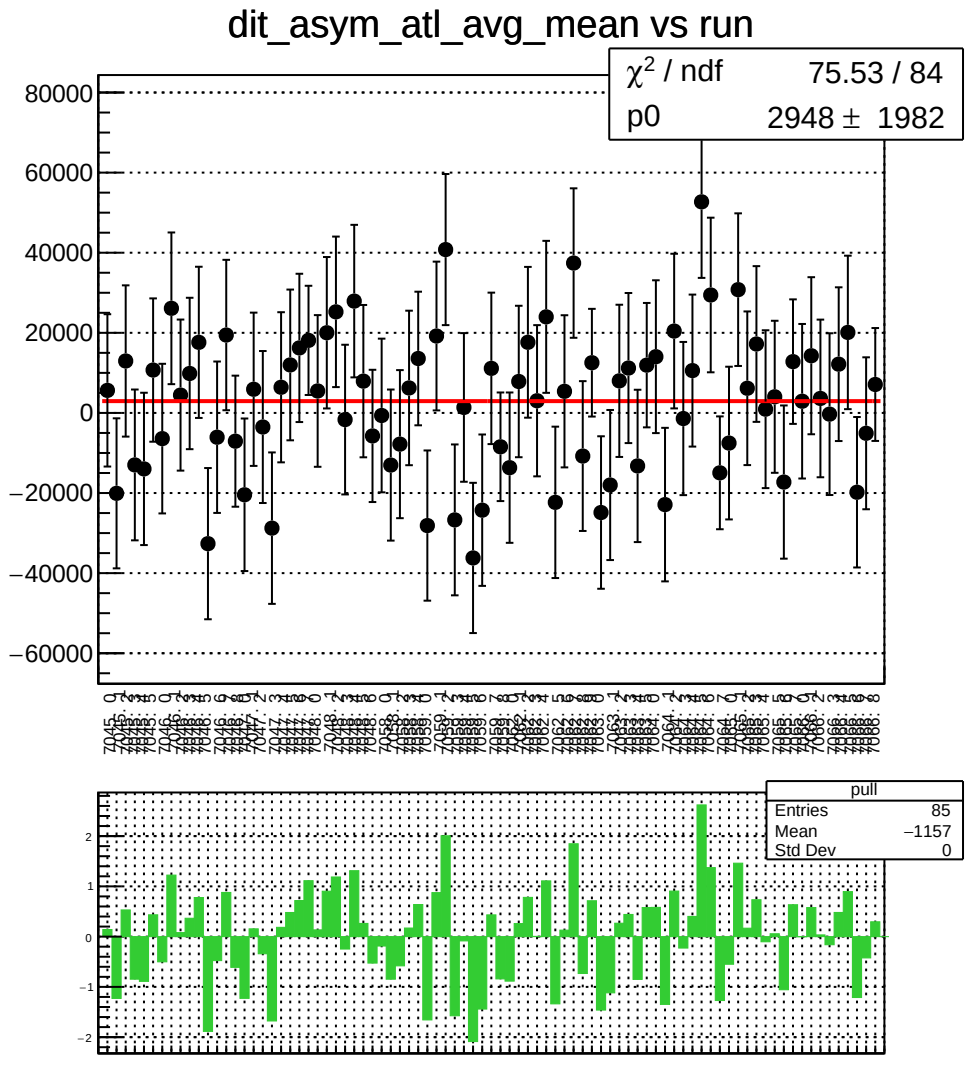

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 81.47 / 84
p0 3921 ± 1928
pull
Entries 85
Mean −2932
Std Dev 0

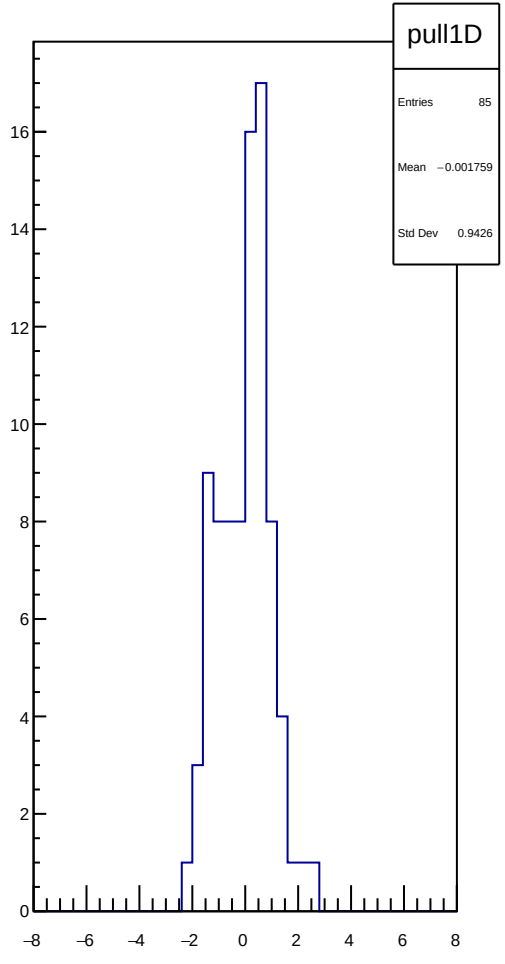

pull1D
Entries 85
Mean −0.00121
Std Dev 0.979

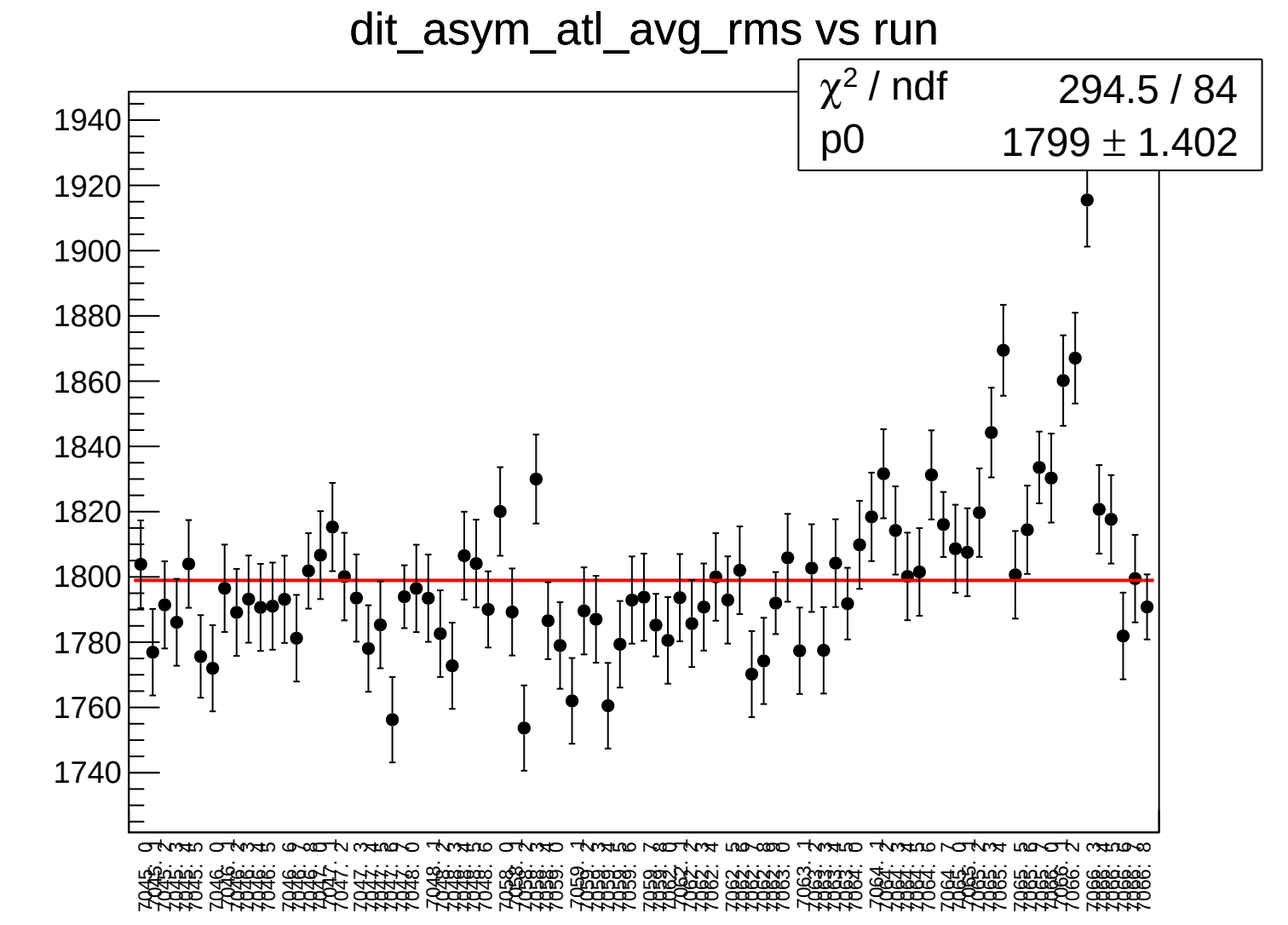

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 111.4 / 84
p0 1749 ± 1.363
1800
1780
1760
1740
1720
1700

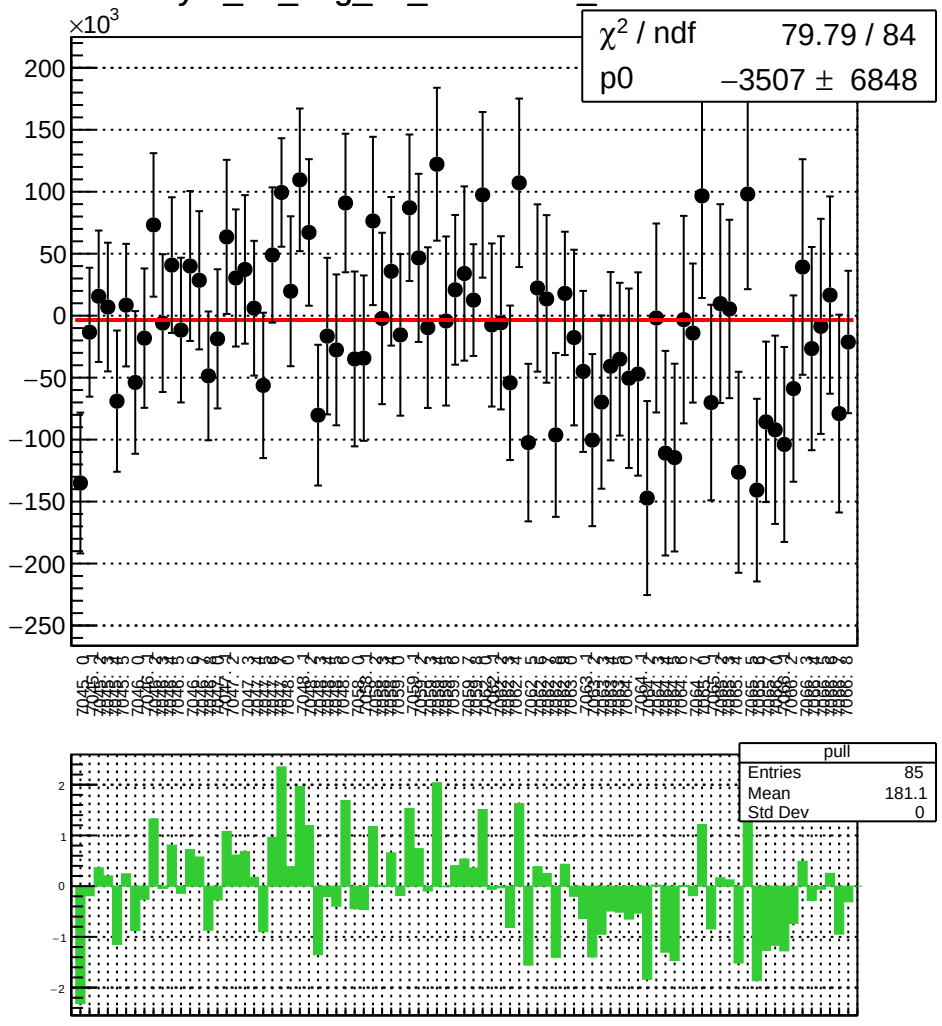

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 80.16 / 84
p0 −2725 ± 6475
pull
Entries 85
Mean 177.5
Std Dev 0
pull1D
Entries 85
Mean −0.04601
Std Dev 0.97

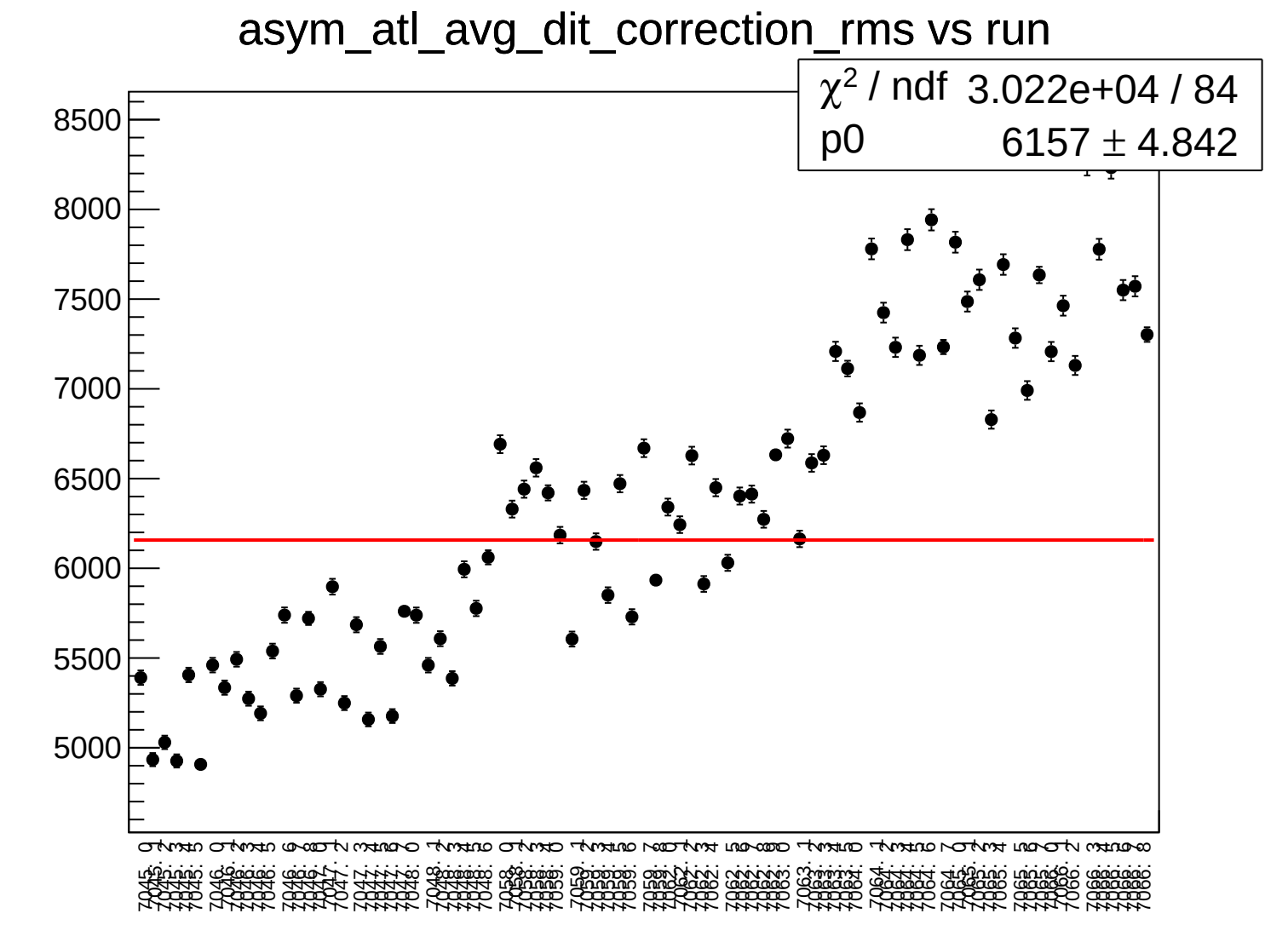

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.13e+04 / 84
p0 5821 ± 4.579
8000
7500
7000
6500
6000
5500
5000
4500

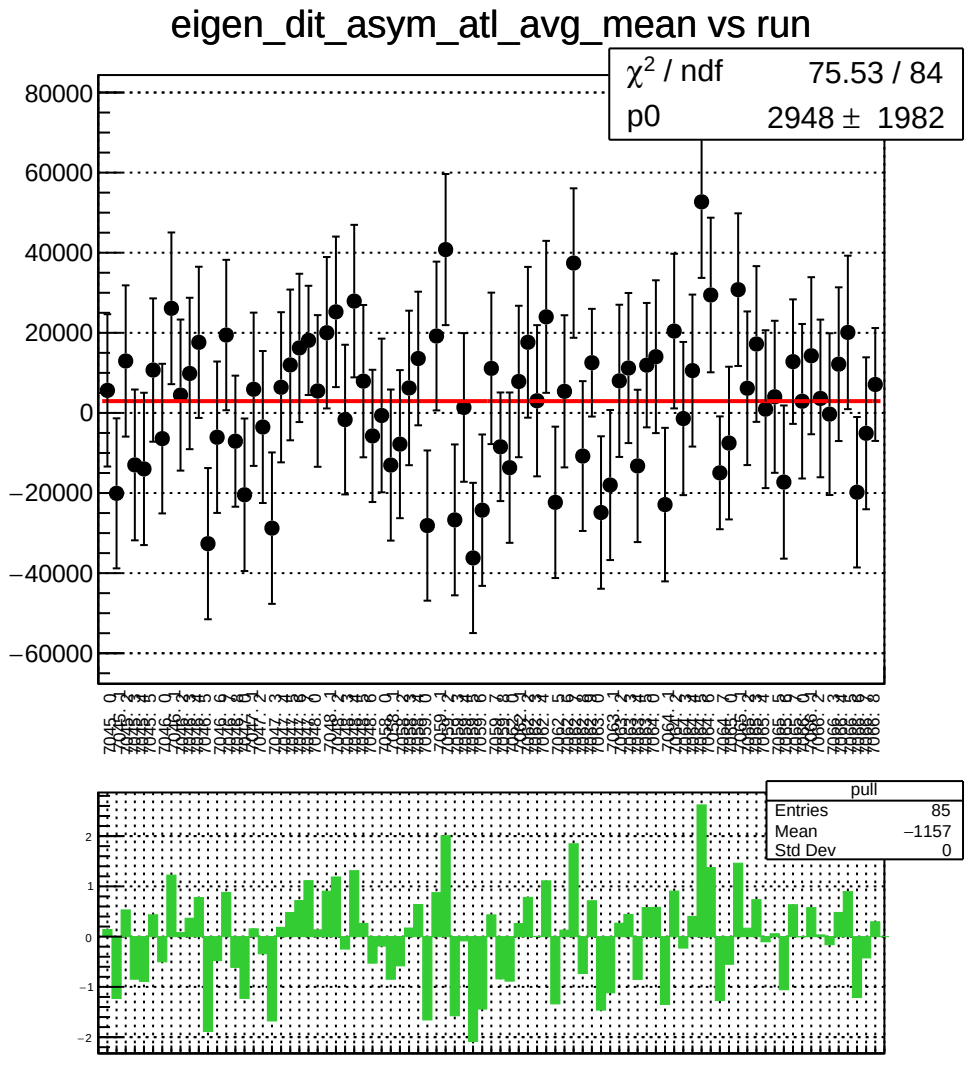

dit_asym_atl_avg_mean vs run
χ² / ndf 75.53 / 84
p0 2948 ± 1982
pull
Entries 85
Mean −1157
Std Dev 0

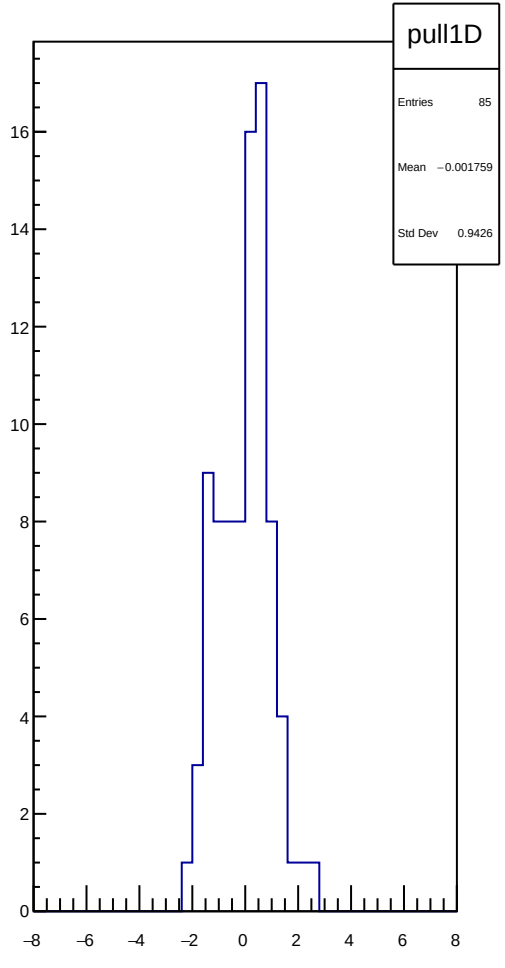

pull1D
Entries 85
Mean −0.001759
Std Dev 0.9426

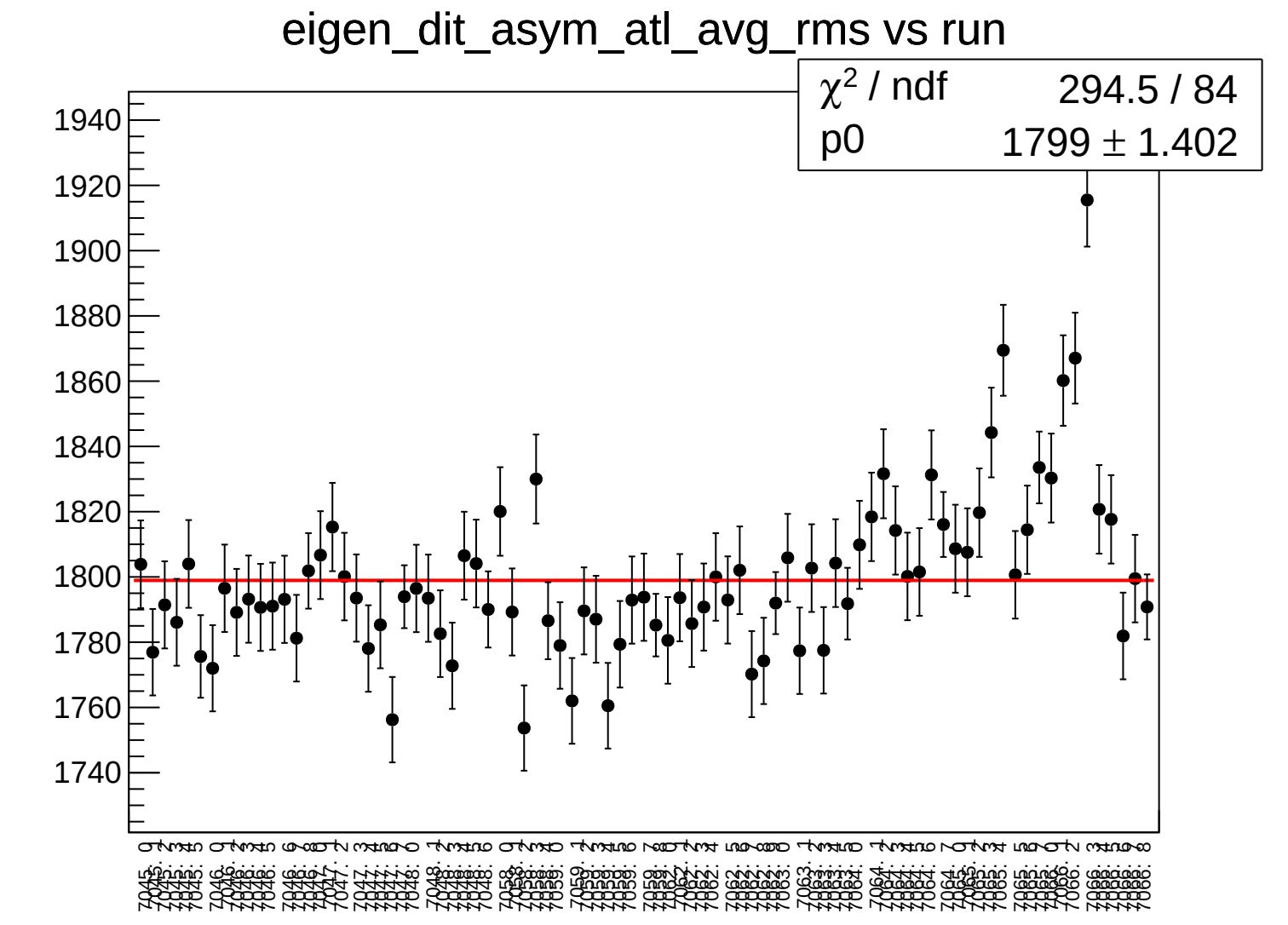

dit_asym_atl_avg_rms vs run
χ^2 / ndf 294.5 / 84
p0 1799 ± 1.402
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

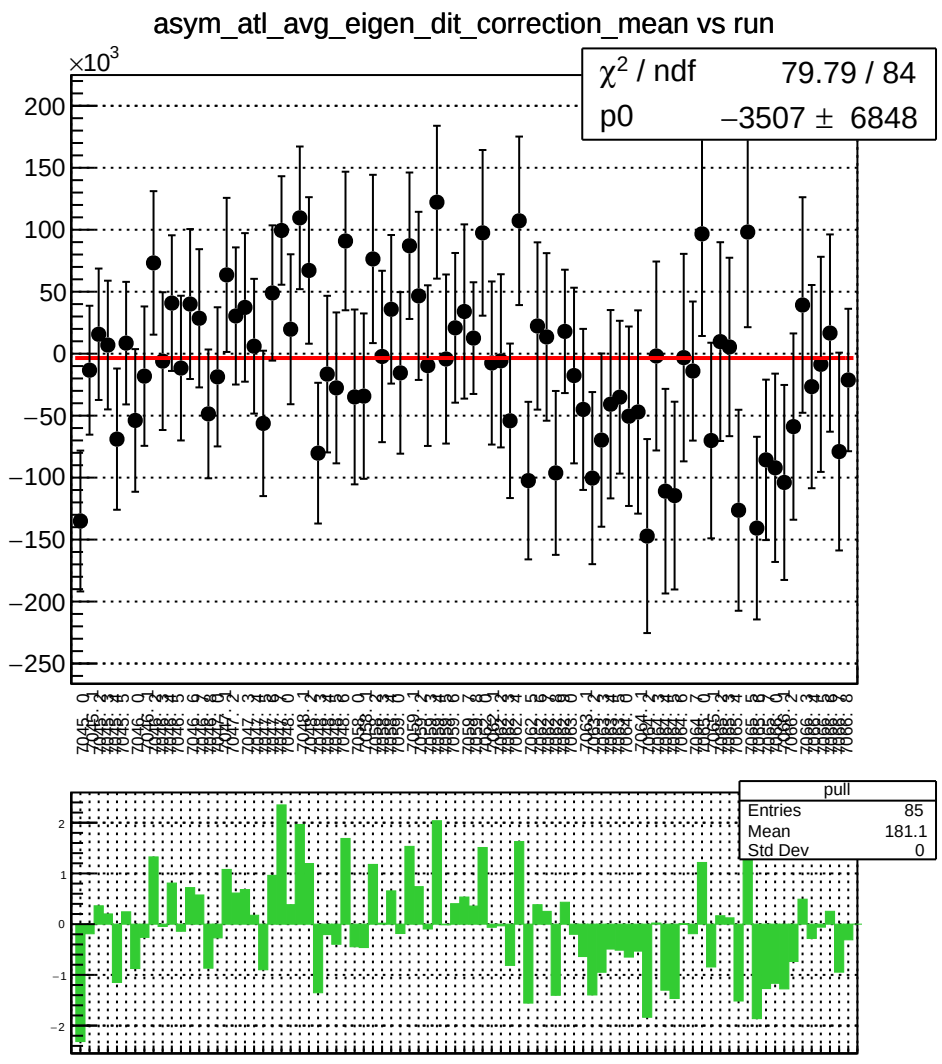

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.79 / 84
p0 −3507 ± 6848
pull
Entries 85
Mean 181.1
Std Dev 0
pull1D
Entries 85
Mean −0.04519
Std Dev 0.9678

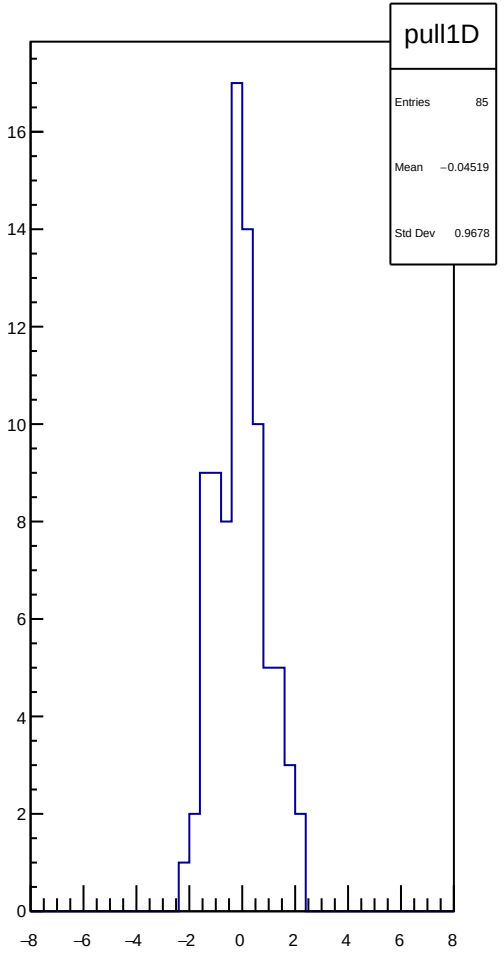

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3.022e+04 / 84
p0 6157 ± 4.842
8500
8000
7500
7000
6500
6000
5500
5000

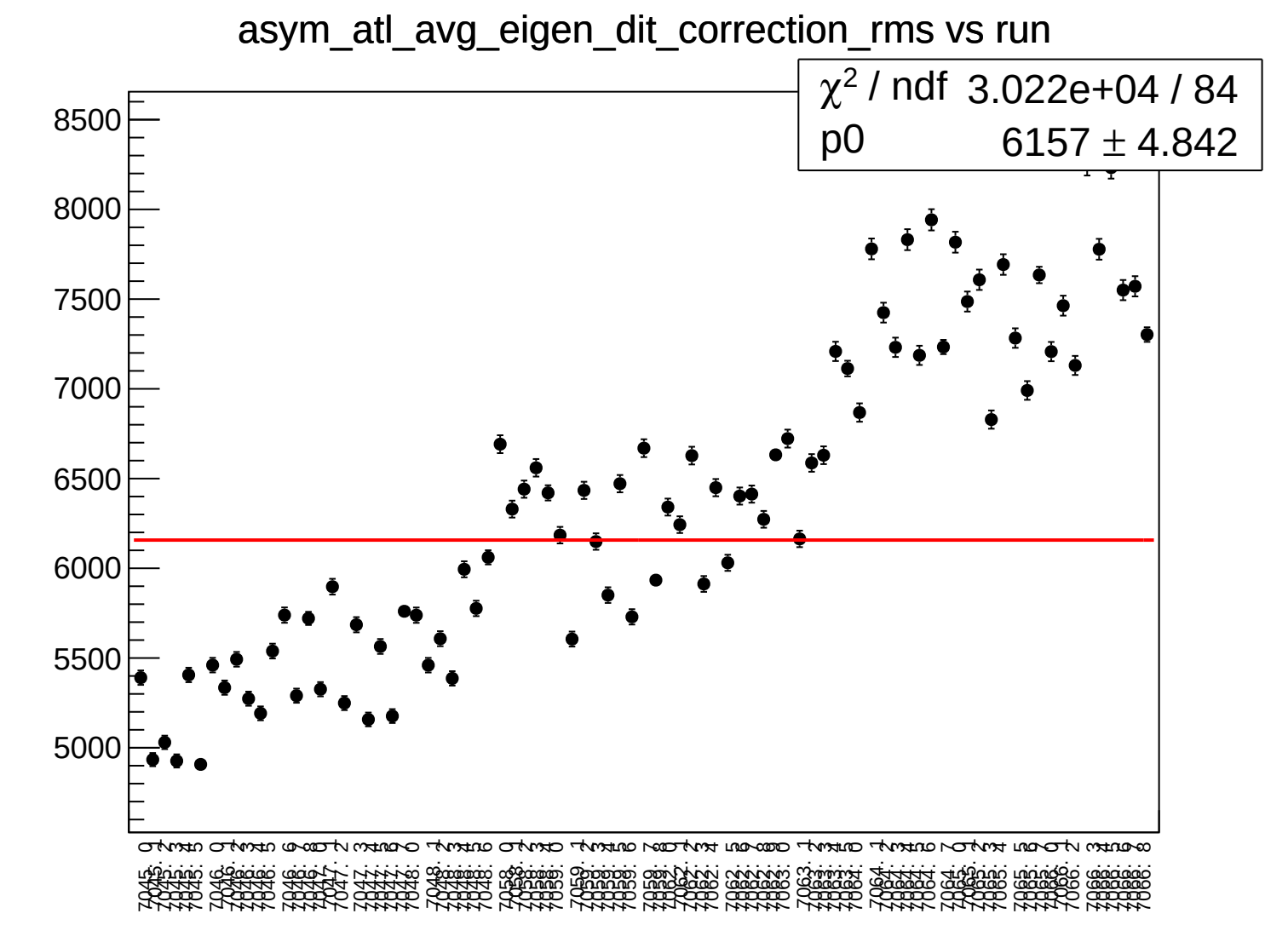

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 75.53 / 84
p0 2948 ± 1982
pull
Entries 85
Mean −1157
Std Dev 0

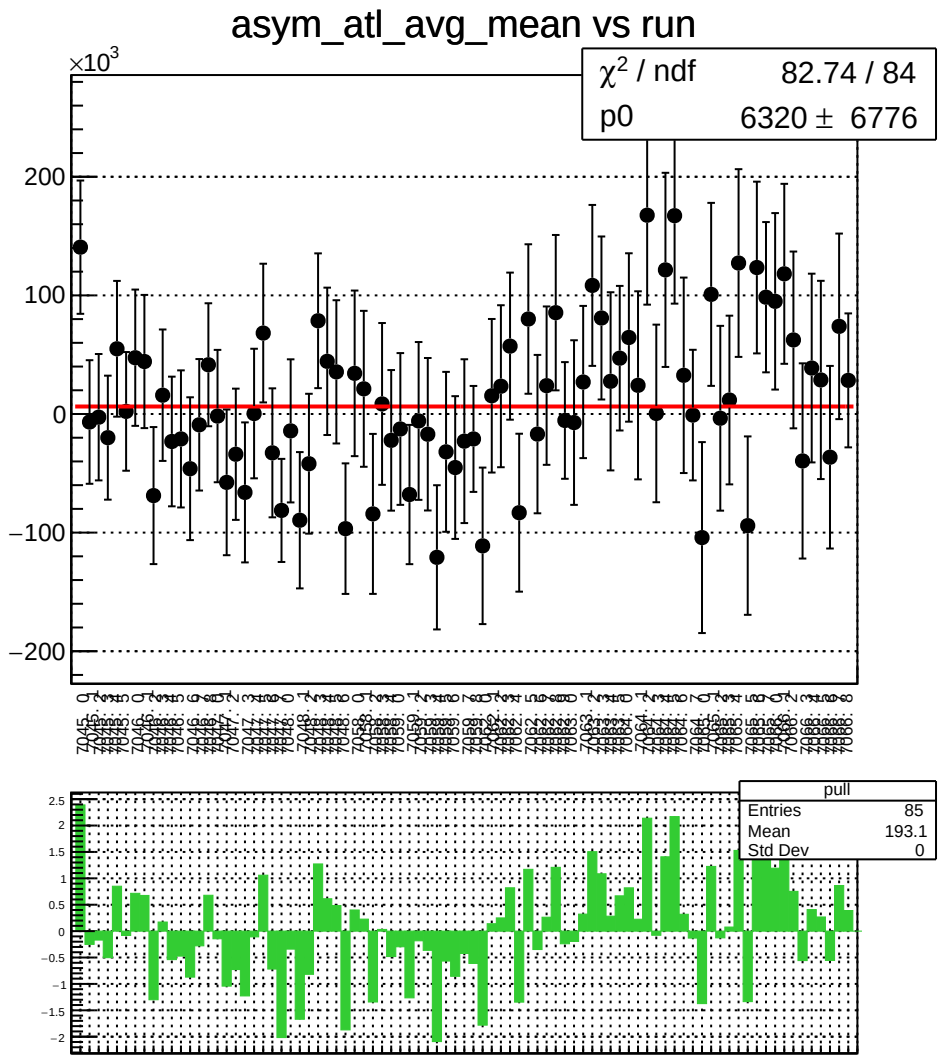

pull1D
Entries 85
Mean −0.001759
Std Dev 0.9426

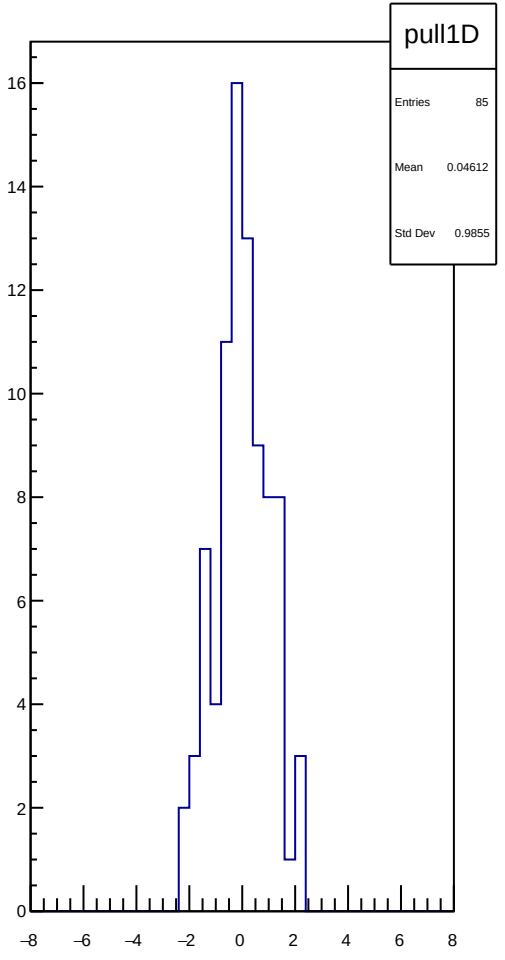

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 294.5 / 84
p0 1799 ± 1.402
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

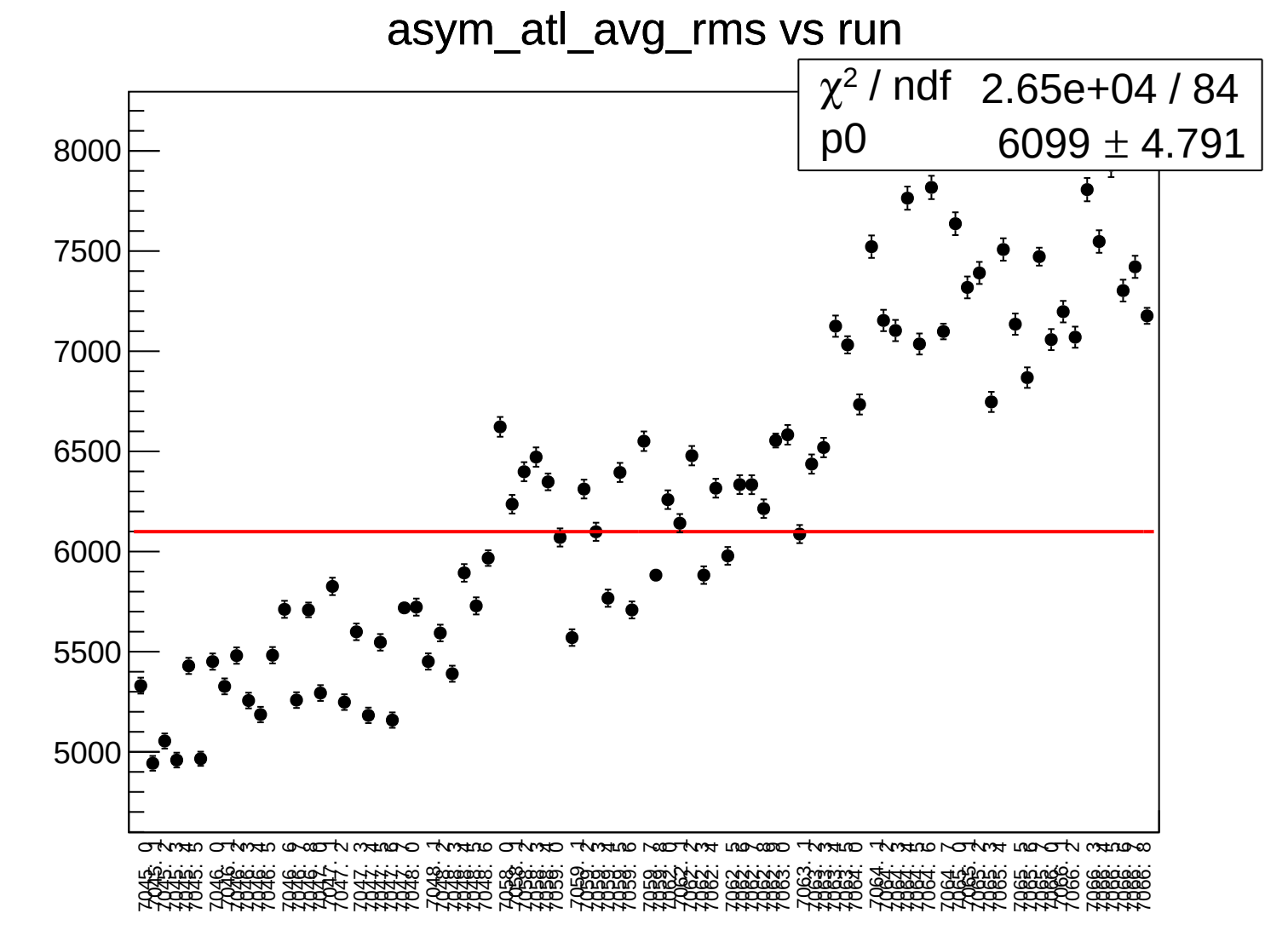

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.79 / 84
p0 −3507 ± 6848
pull
Entries 85
Mean 181.1
Std Dev 0

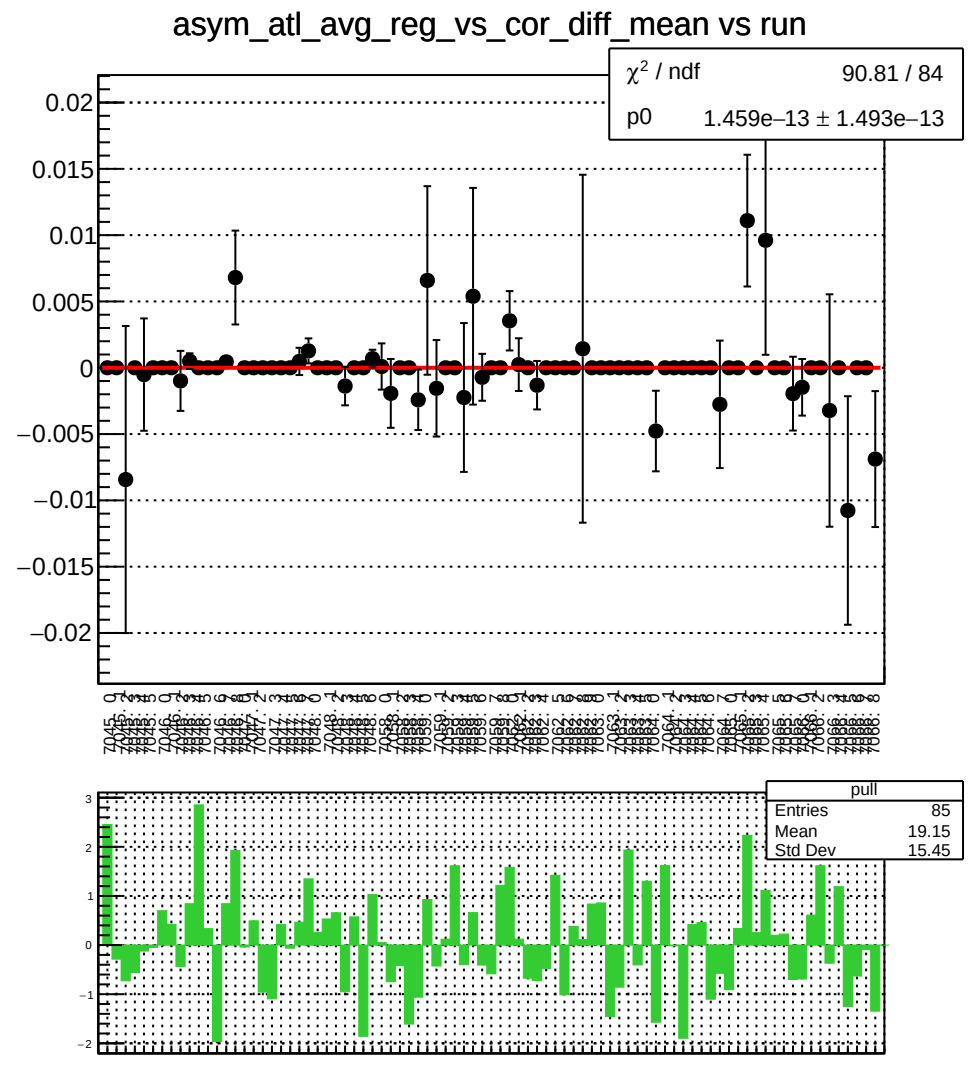

pull1D
Entries 85
Mean −0.04519
Std Dev 0.9678

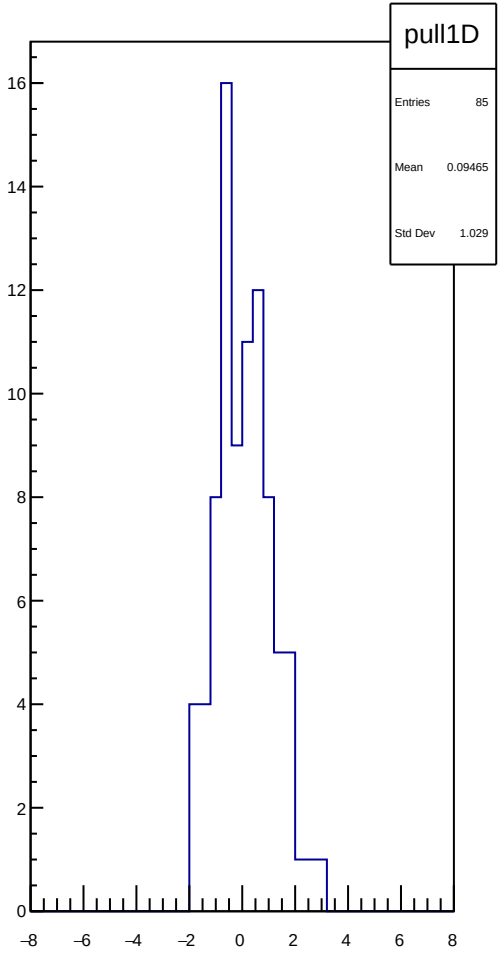

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.022e+04 / 84
p0 6157 ± 4.842
8500
8000
7500
7000
6500
6000
5500
5000

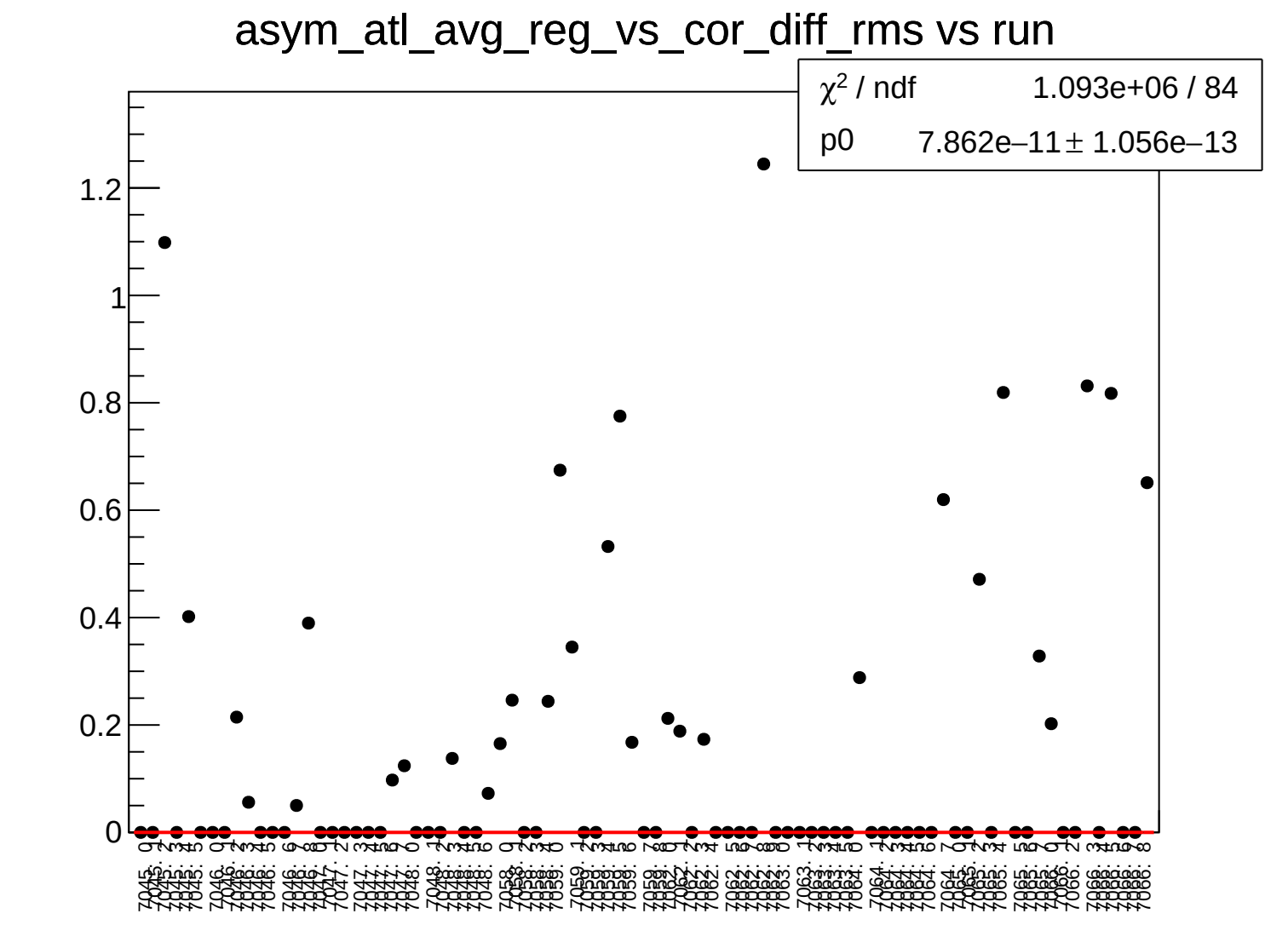

asym_atl_avg_mean vs run
×10^3
χ² / ndf 82.74 / 84
p0 6320 ± 6776
200
100
0
−100
−200
pull
Entries 85
Mean 193.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

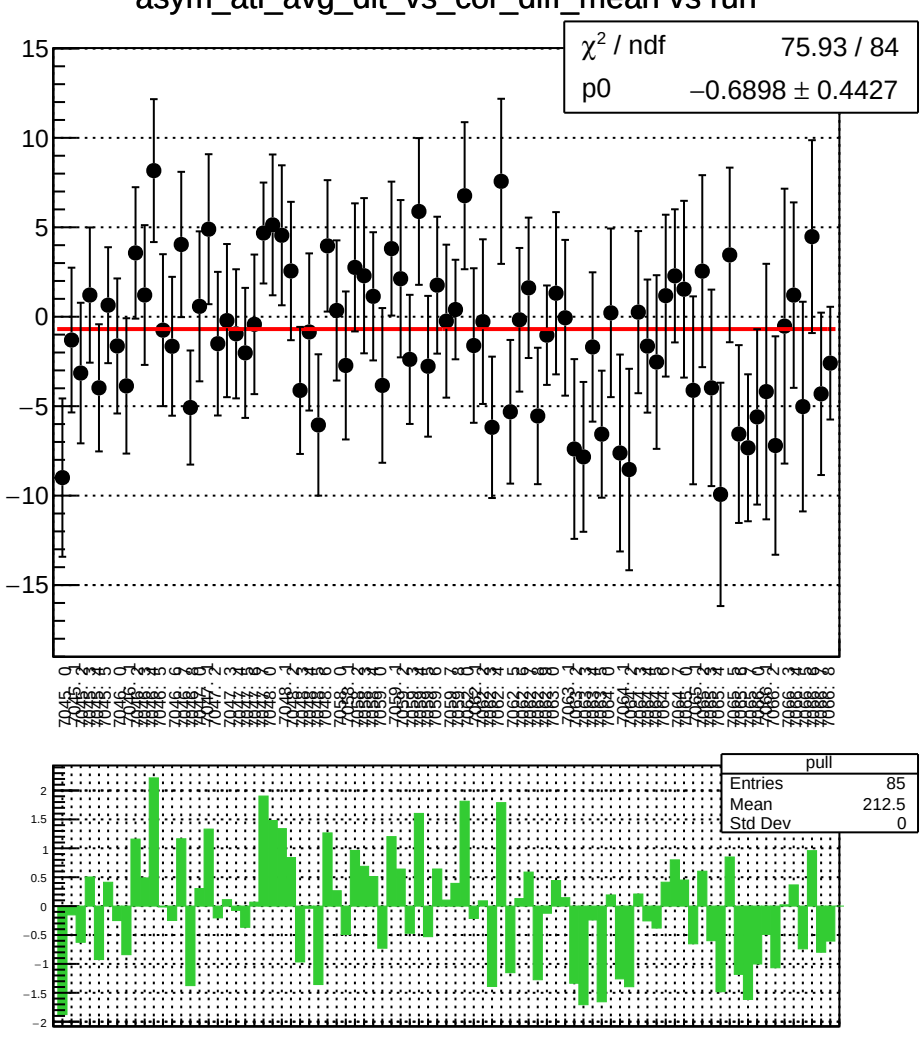

pull1D
Entries 85
Mean 0.04612
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

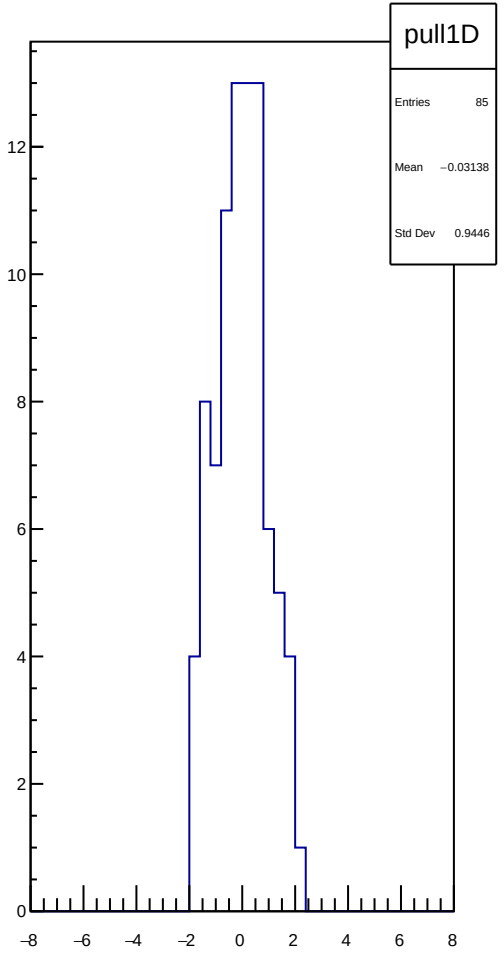

asym_atl_avg_rms vs run
χ² / ndf 2.65e+04 / 84
p0 6099 ± 4.791
8000
7500
7000
6500
6000
5500
5000

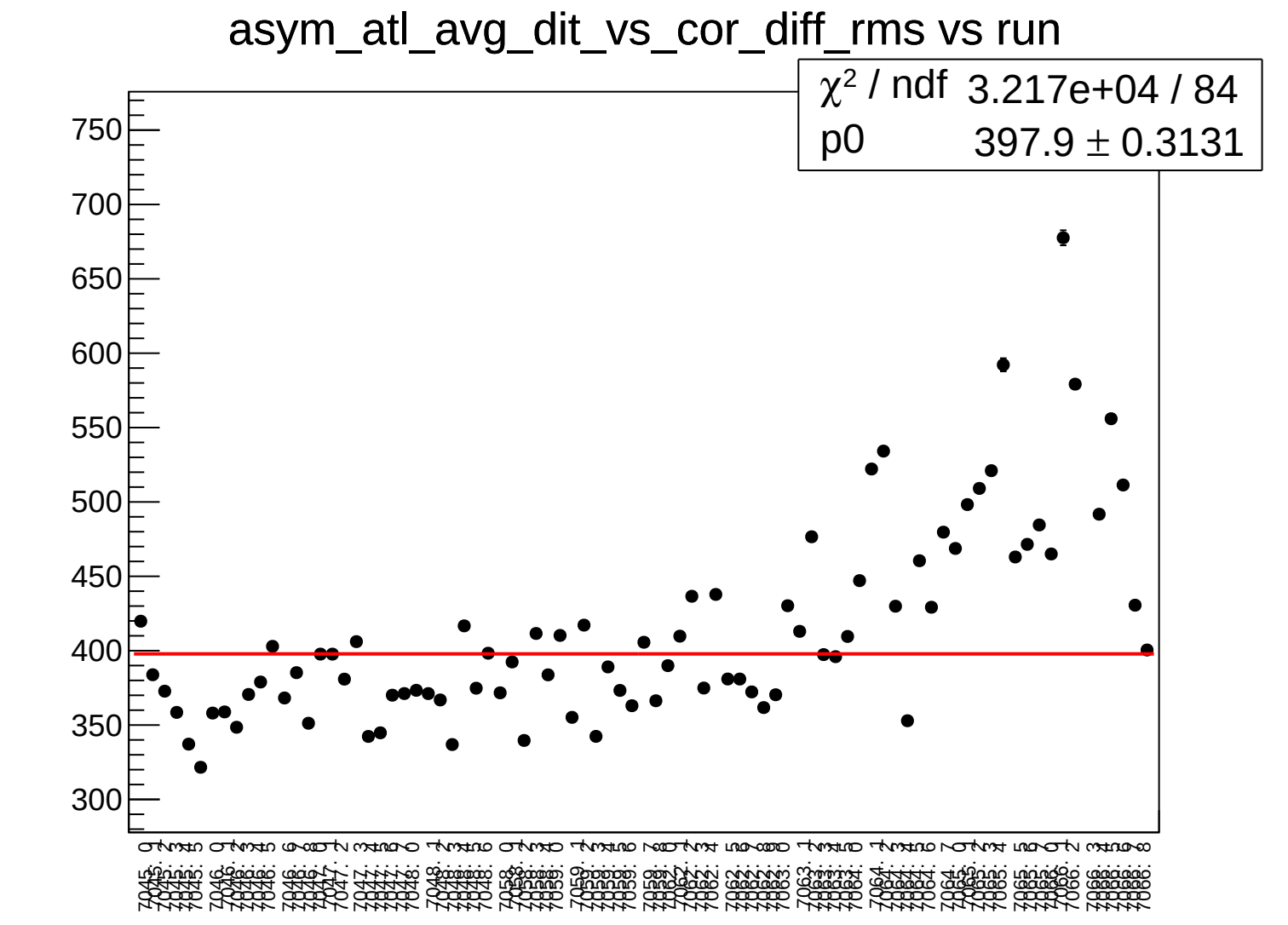

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.81 / 84
p0 1.459e−13 ± 1.493e−13
pull
Entries 85
Mean 19.15
Std Dev 15.45

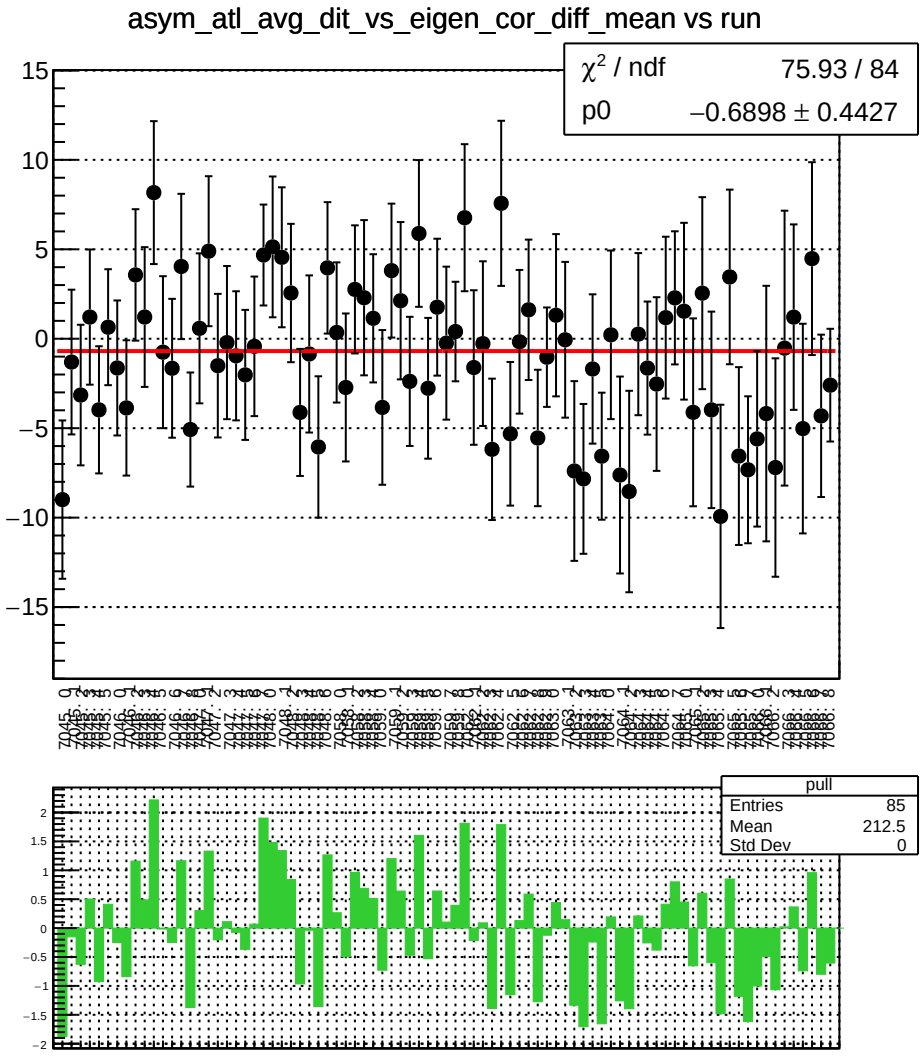

pull1D
Entries 85
Mean 0.09465
Std Dev 1.029

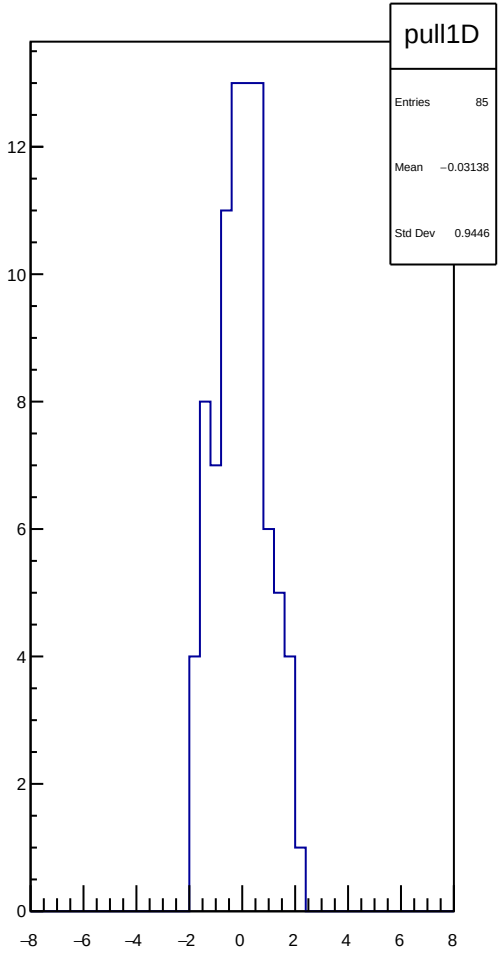

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 84
p0 7.862e−11 ± 1.056e−13
1.2
1
0.8
0.6
0.4
0.2
0

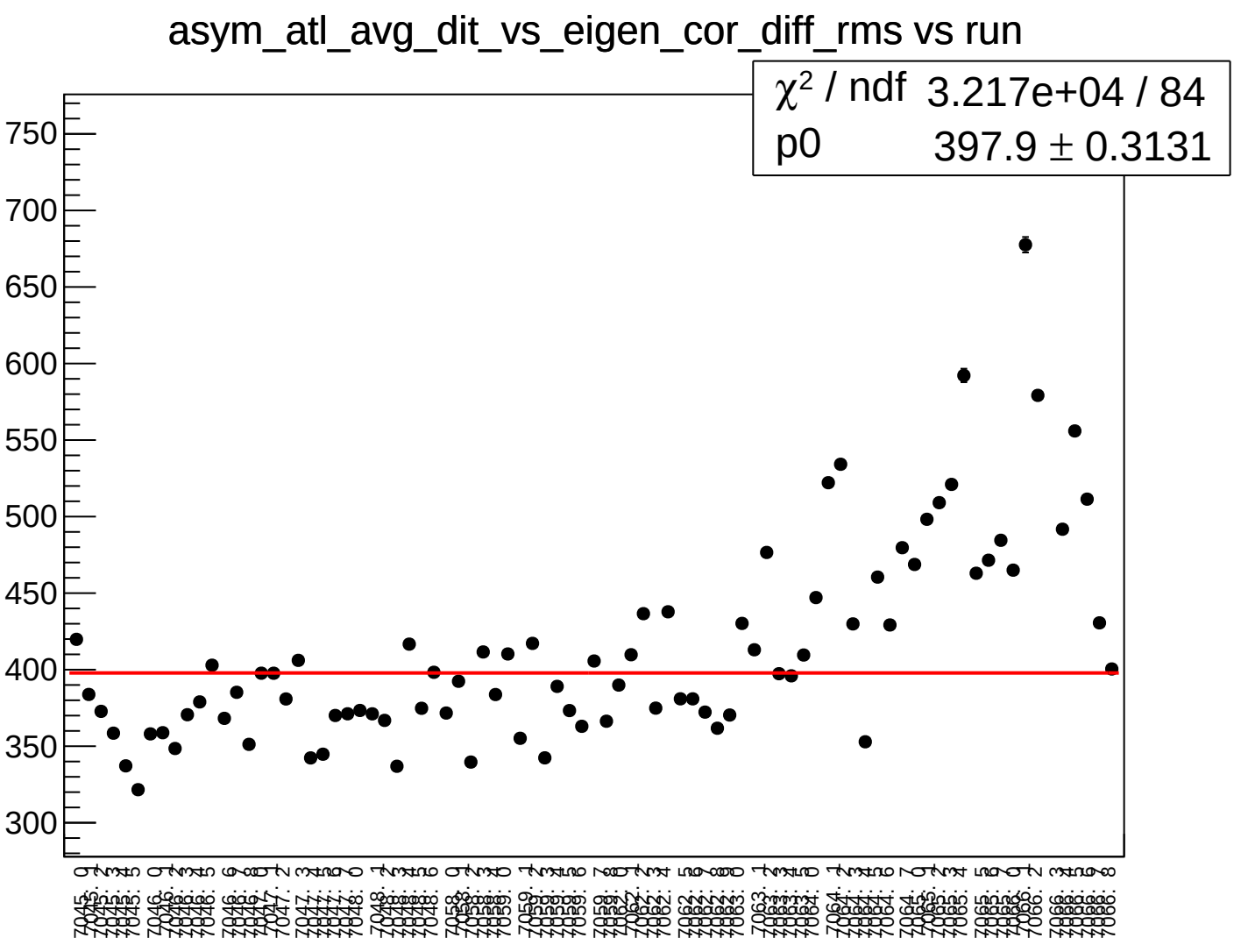

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6898 ± 0.4427
pull
Entries 85
Mean 212.5
Std Dev 0

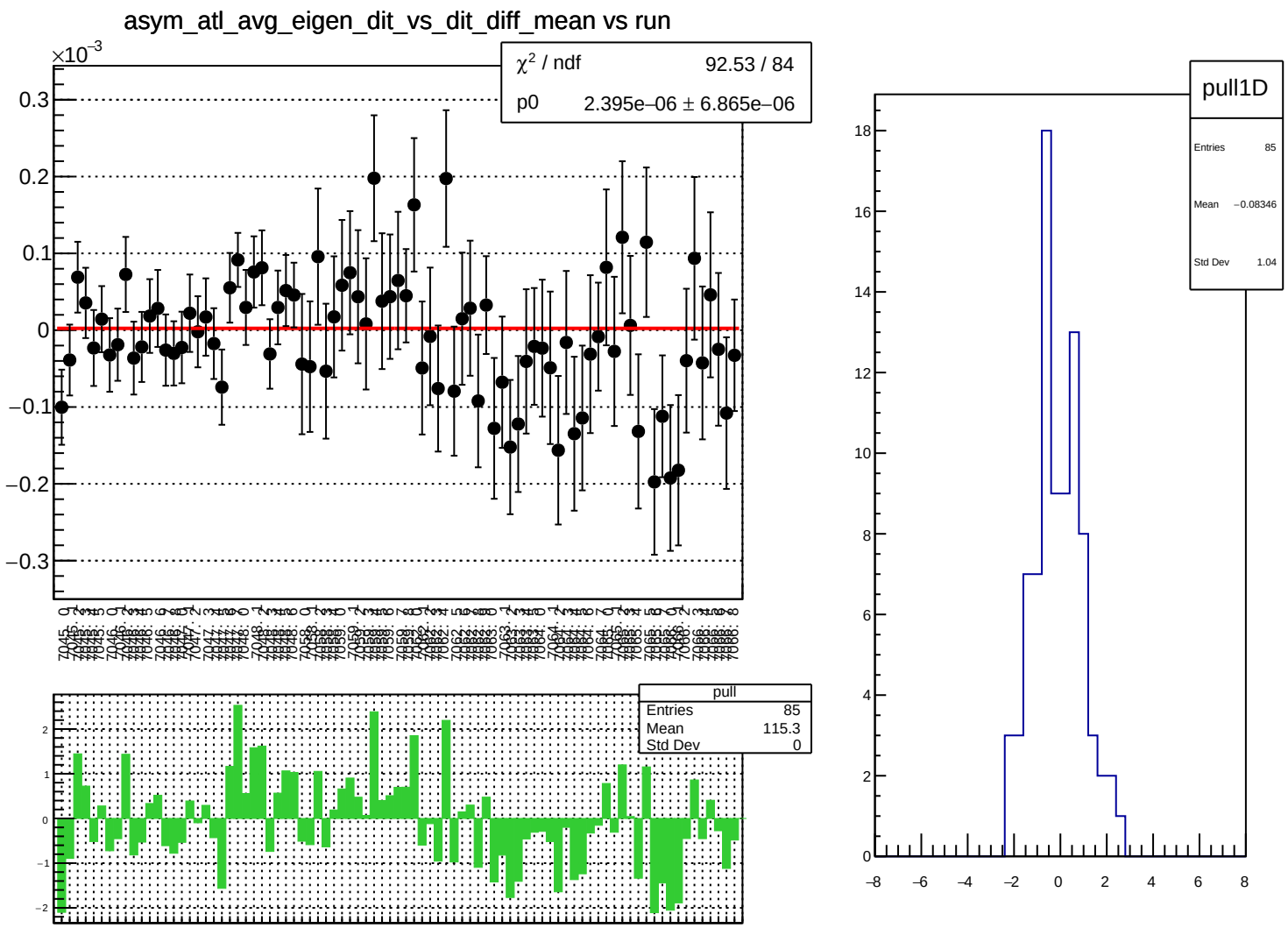

pull1D
Entries 85
Mean −0.03138
Std Dev 0.9446

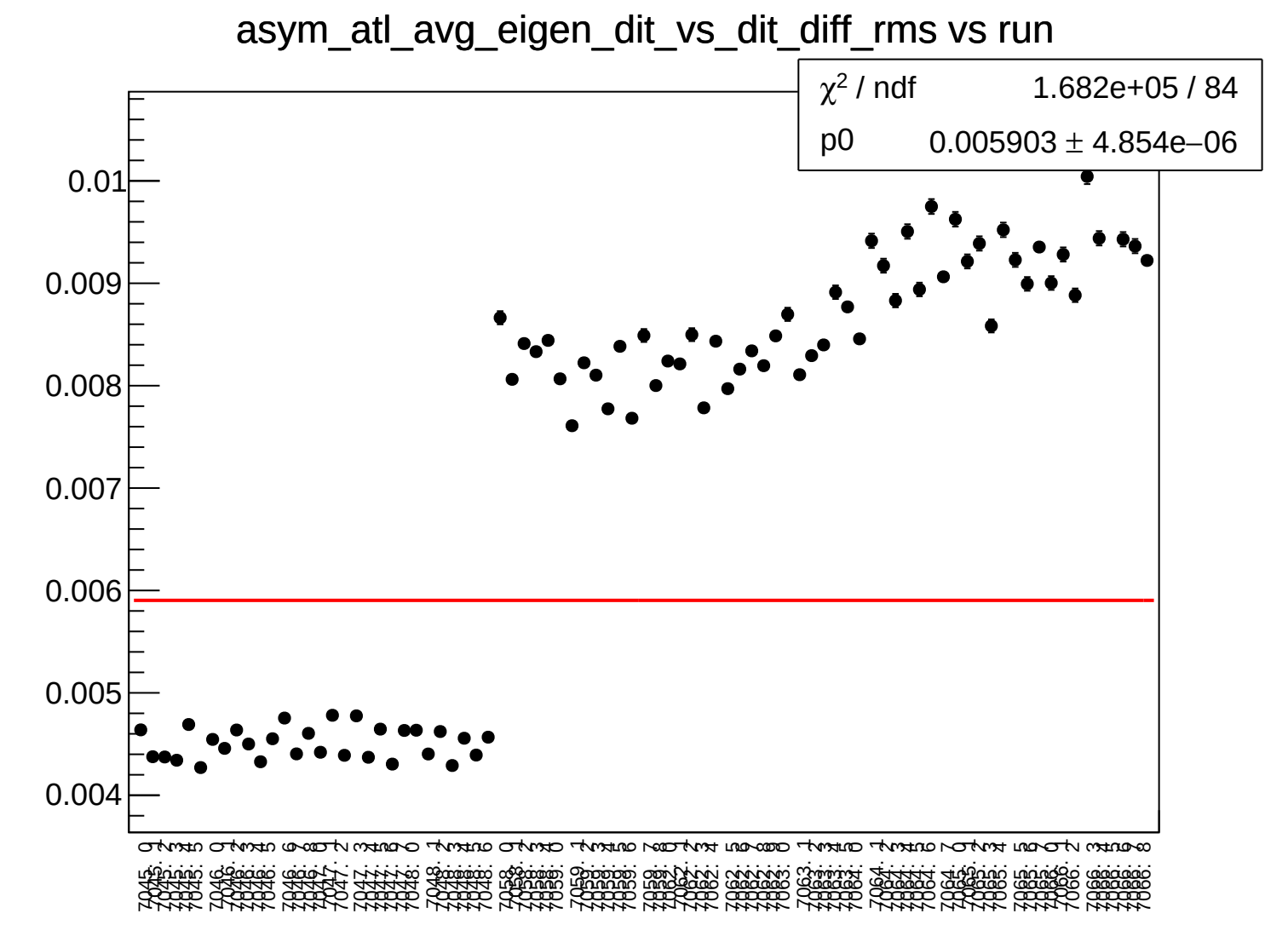

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 84
p0 397.9 ± 0.3131
750
700
650
600
550
500
450
400
350
300

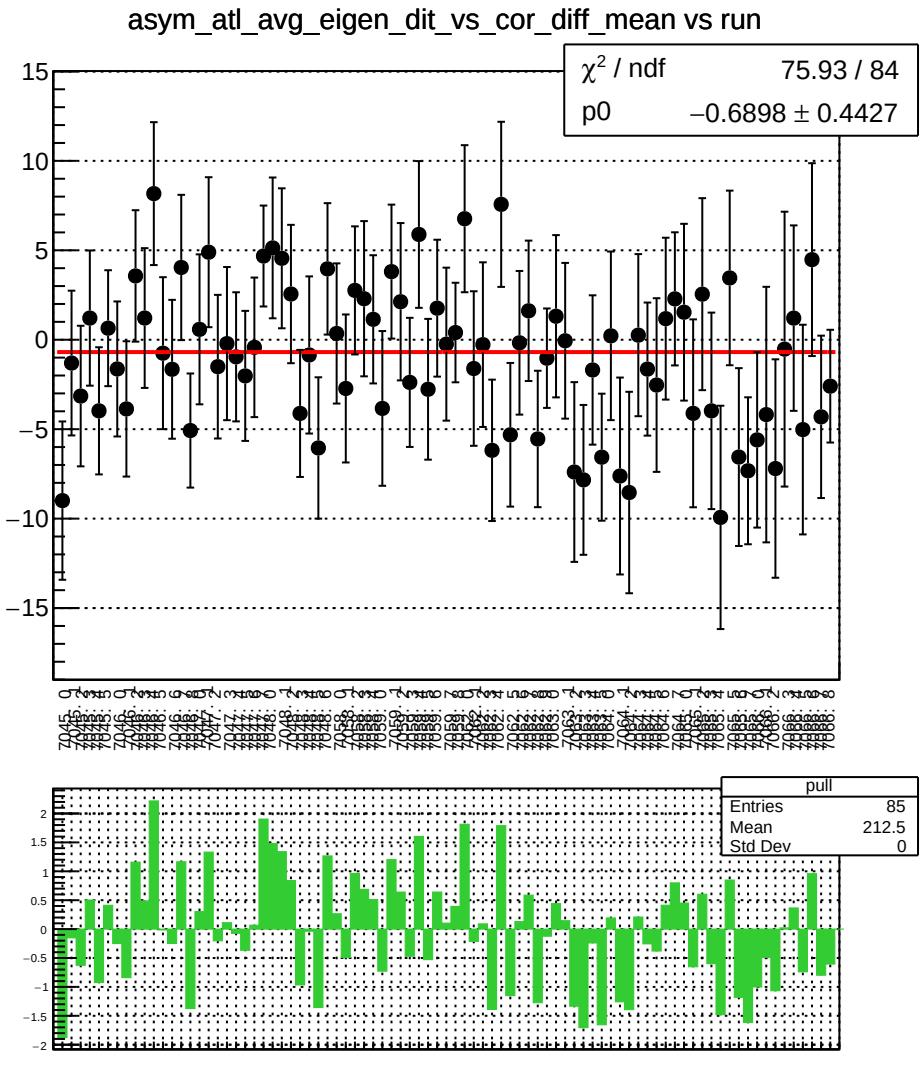

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6898 ± 0.4427
pull
Entries 85
Mean 212.5
Std Dev 0

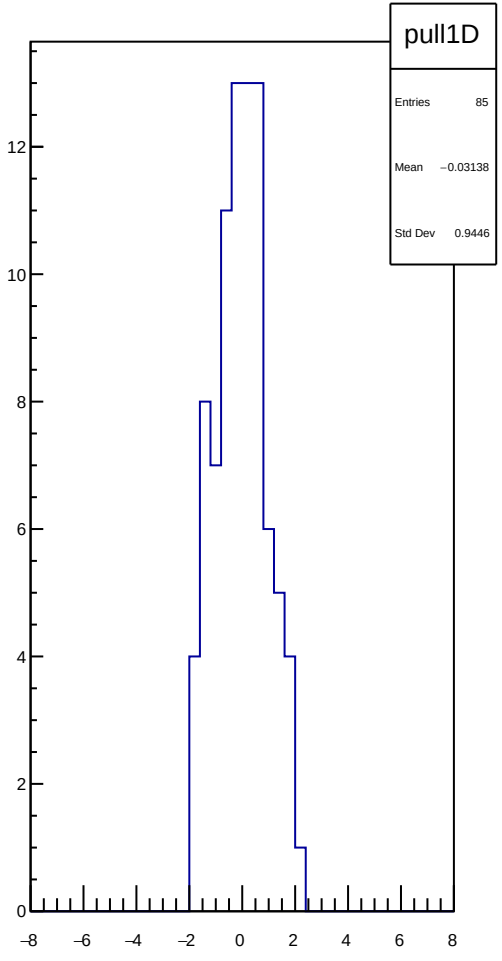

pull1D
Entries 85
Mean −0.03138
Std Dev 0.9446

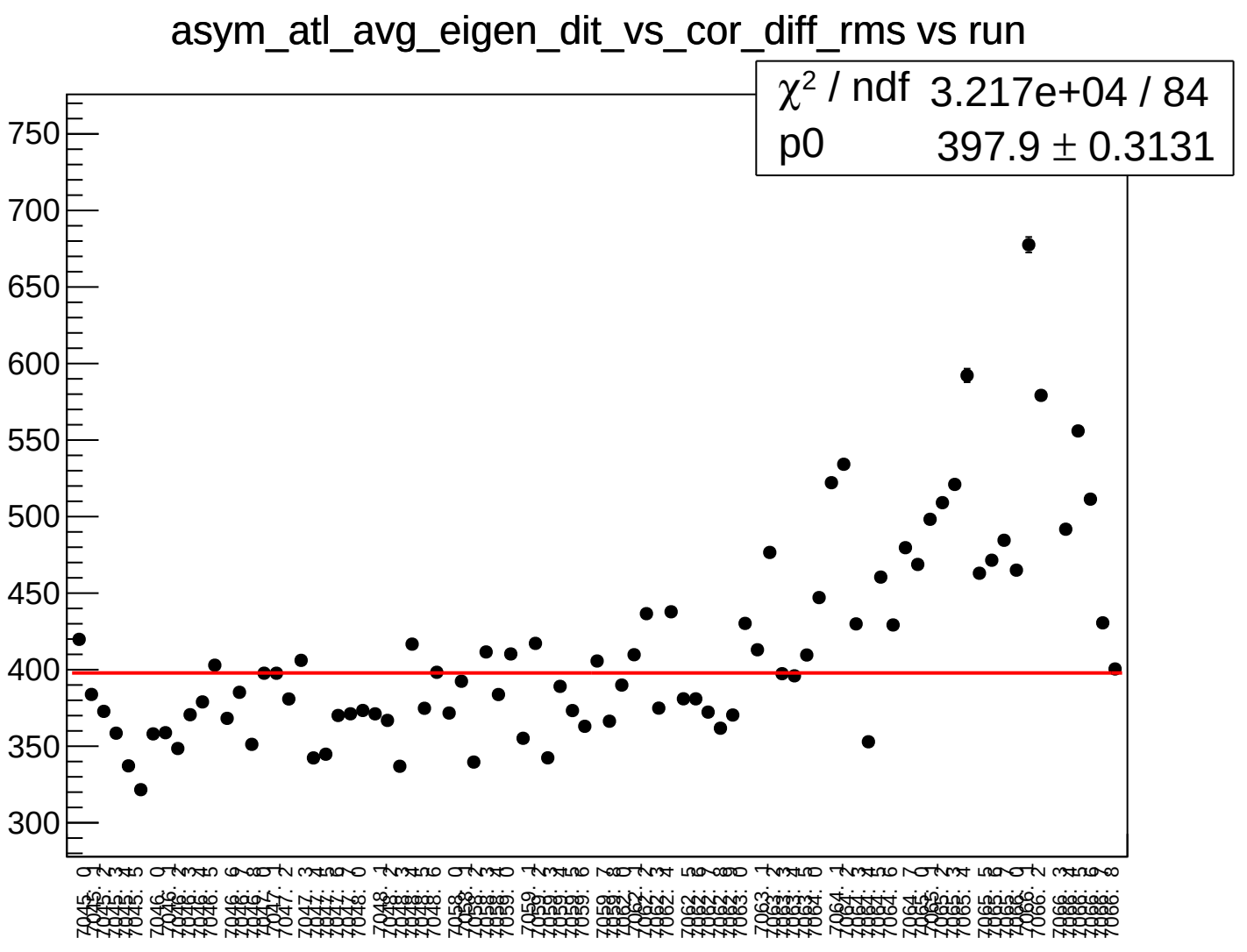

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 84
p0 397.9 ± 0.3131
750
700
650
600
550
500
450
400
350
300

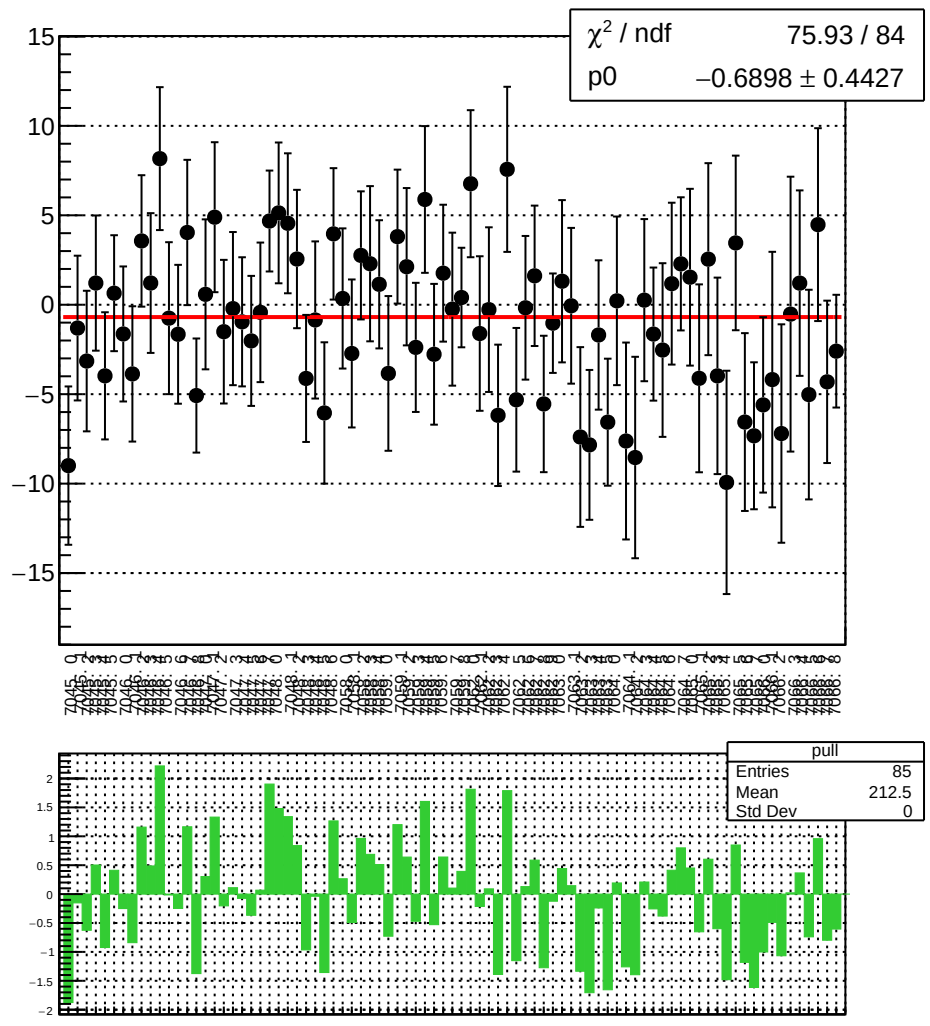

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.53 / 84
p0 2.395e−06 ± 6.865e−06
pull
Entries 85
Mean 115.3
Std Dev 0
pull1D
Entries 85
Mean −0.08346
Std Dev 1.04

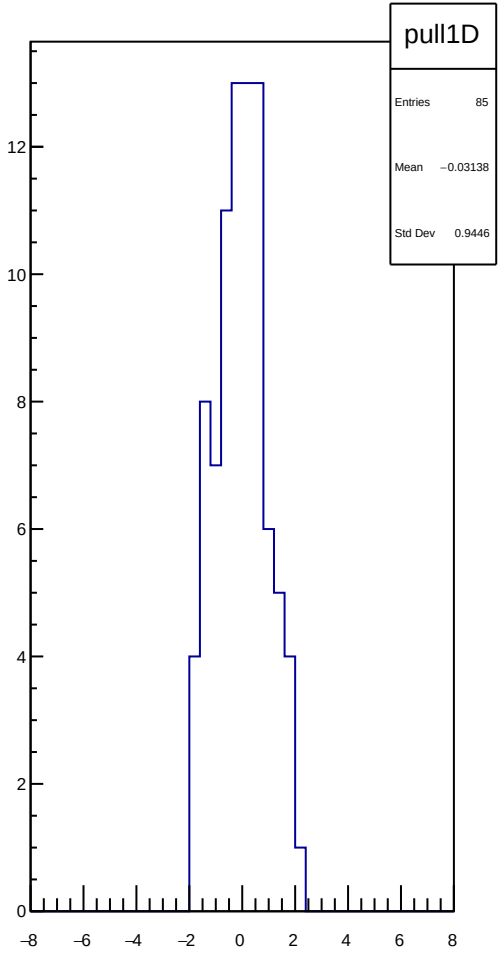

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.682e+05 / 84
p0 0.005903 ± 4.854e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

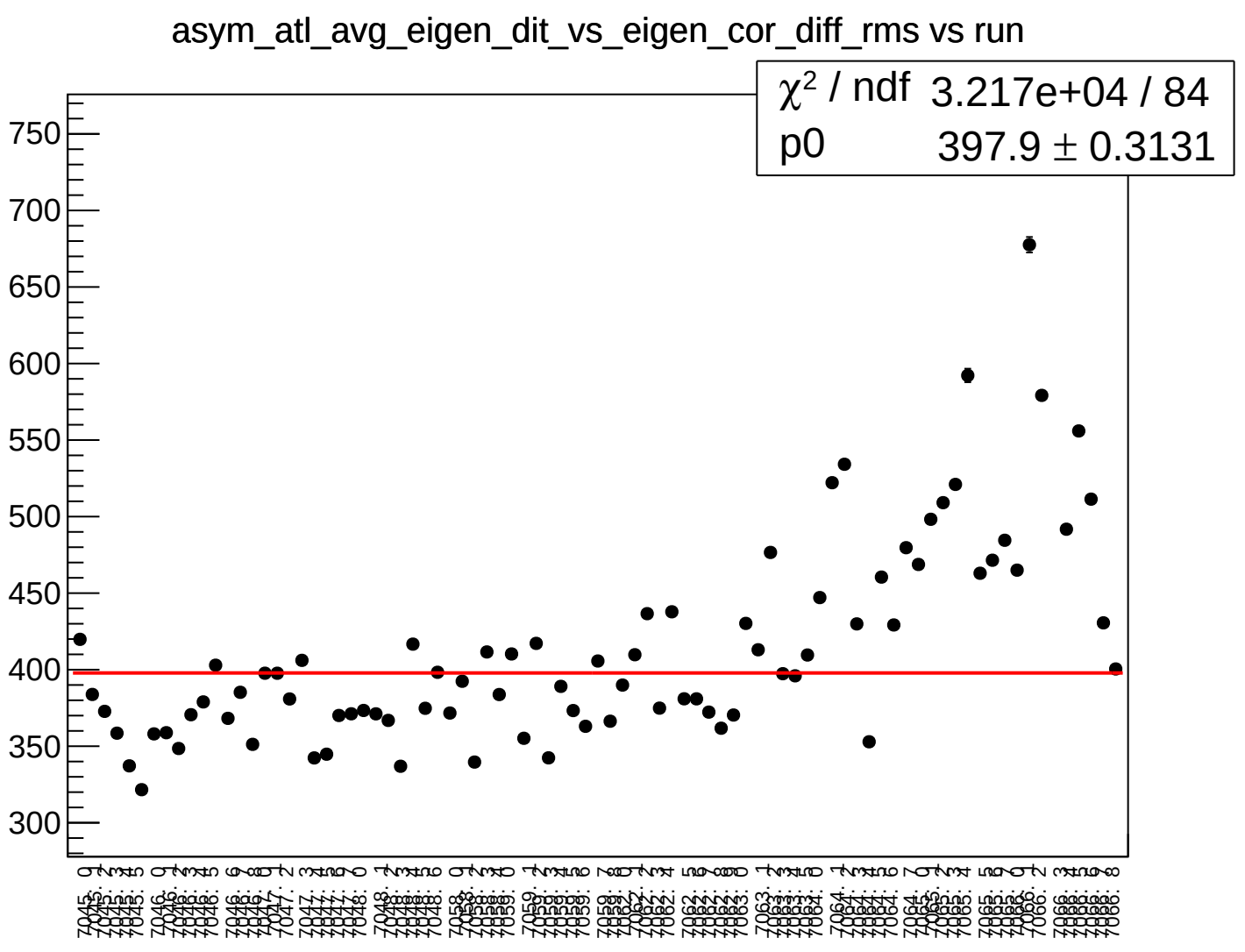

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6898 ± 0.4427
pull
Entries 85
Mean 212.5
Std Dev 0

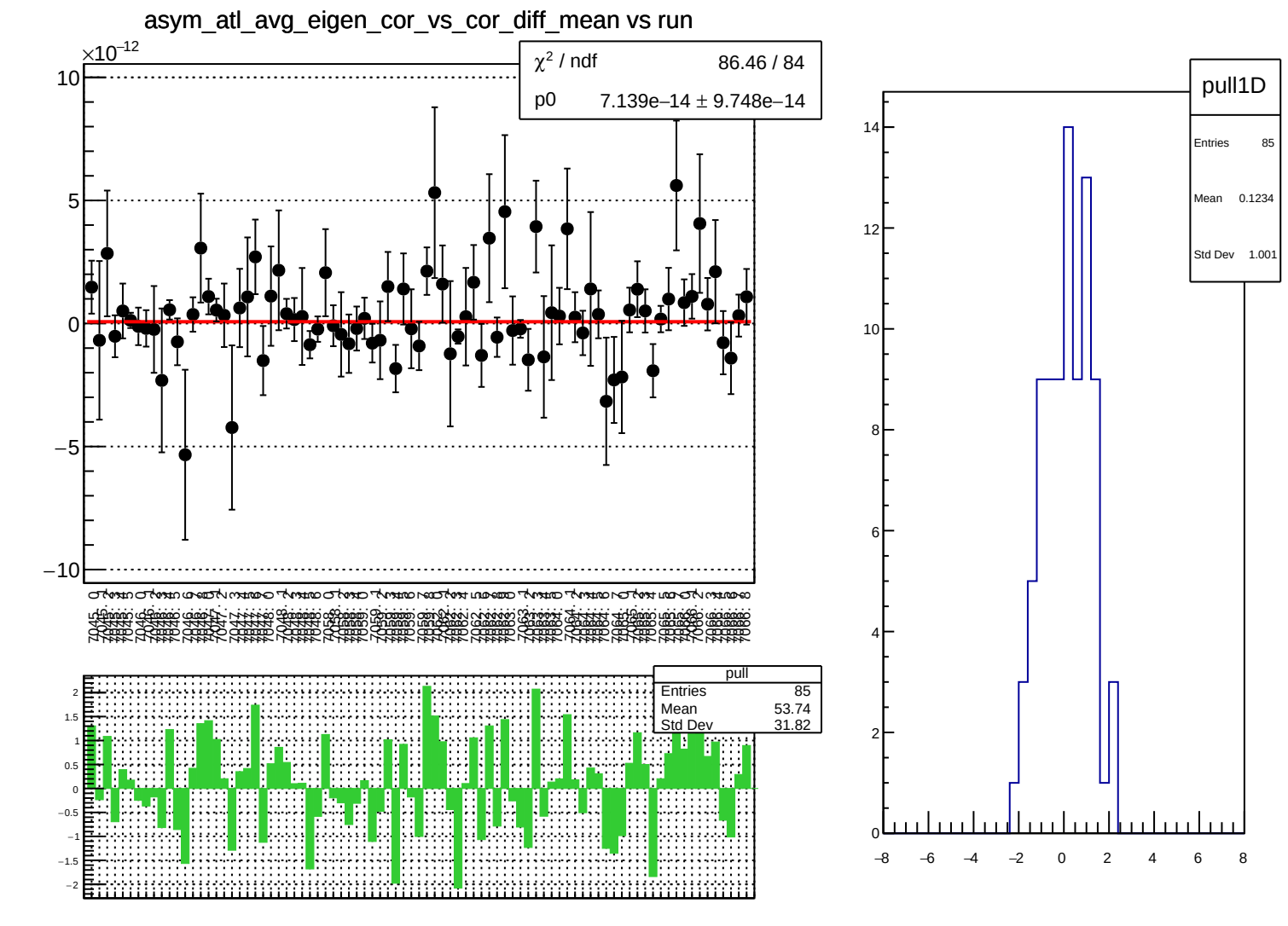

pull1D
Entries 85
Mean −0.03138
Std Dev 0.9446

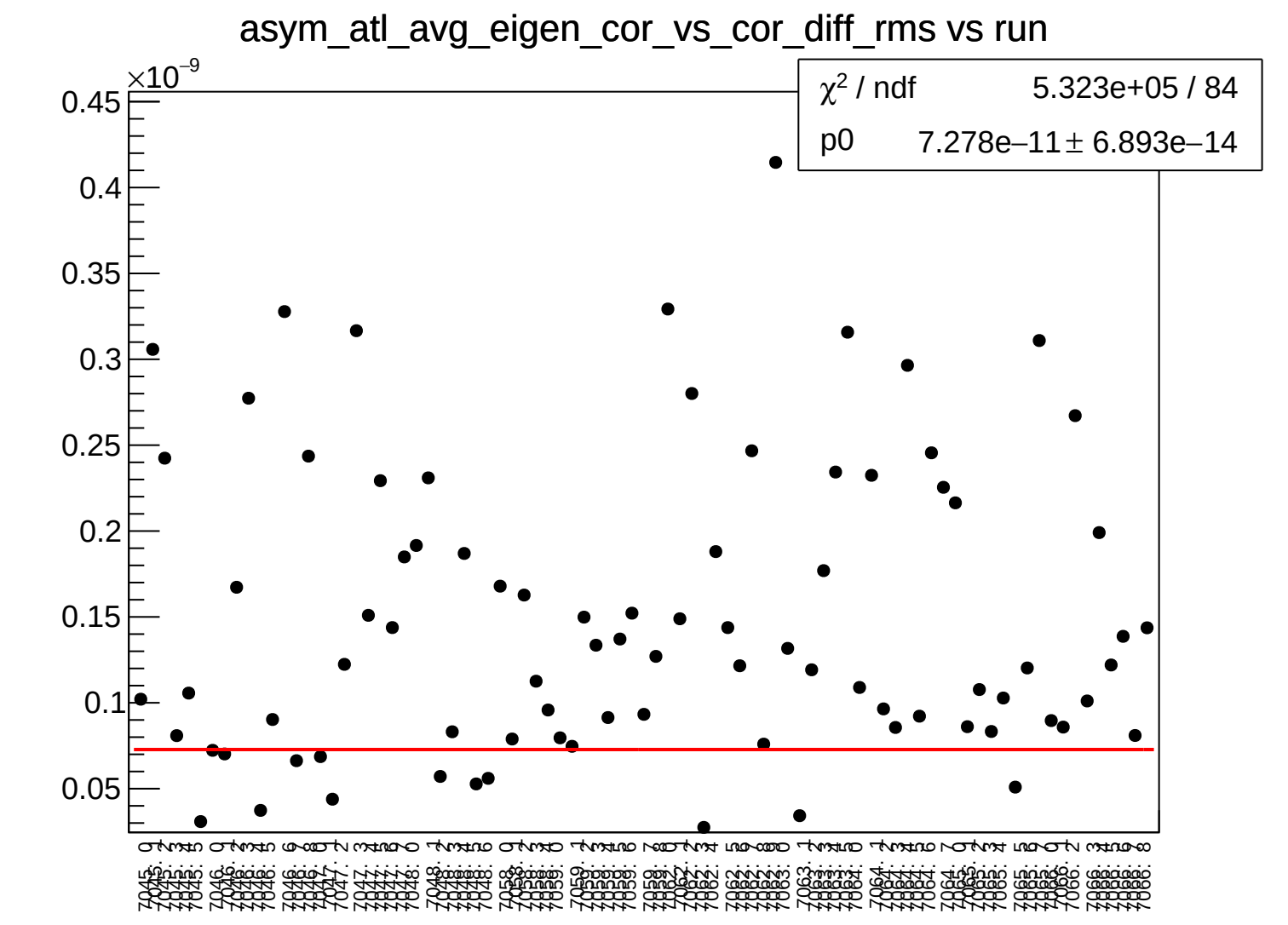

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 84
p0 397.9 ± 0.3131
750
700
650
600
550
500
450
400
350
300

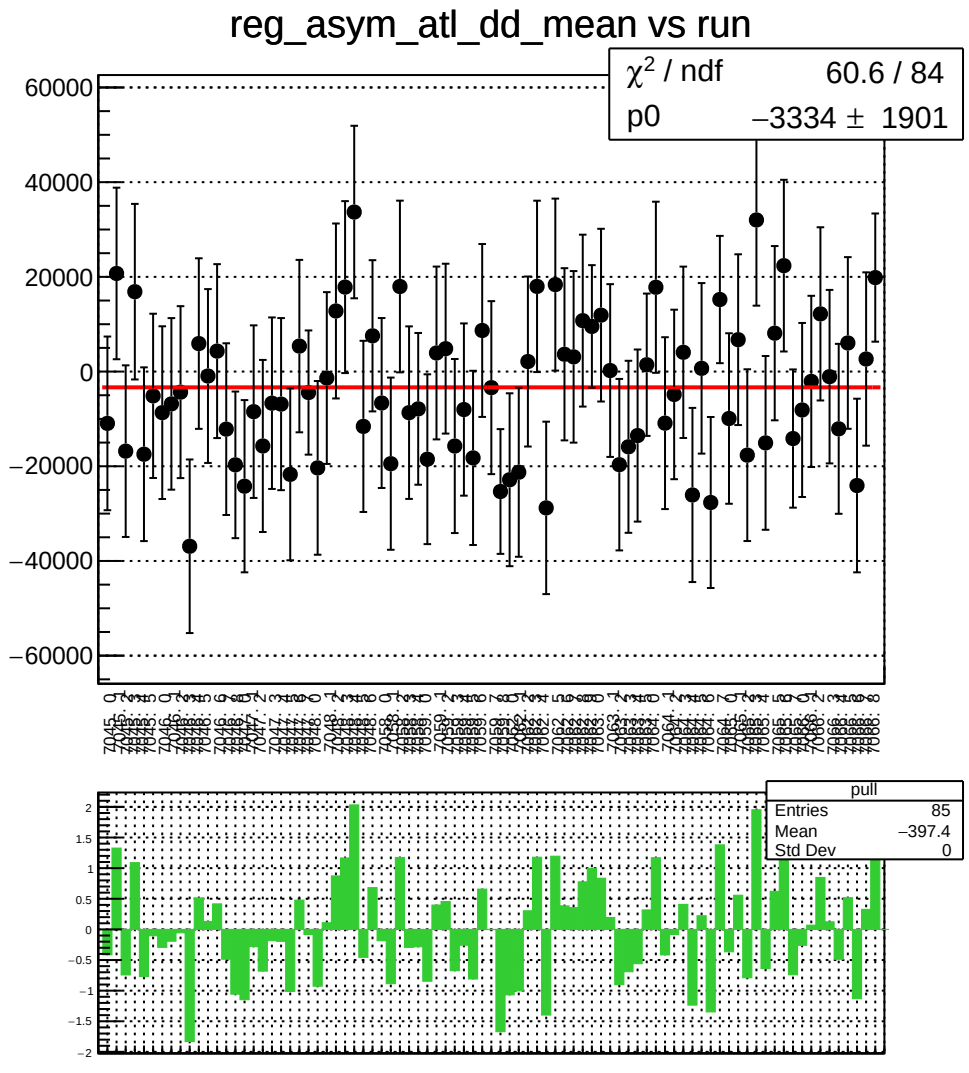

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6898 ± 0.4427
pull
Entries 85
Mean 212.5
Std Dev 0

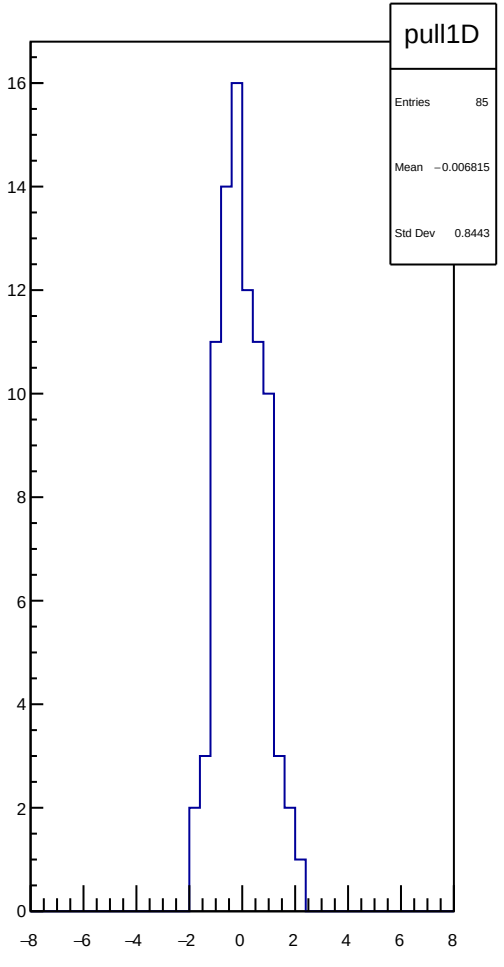

pull1D
Entries 85
Mean −0.03138
Std Dev 0.9446

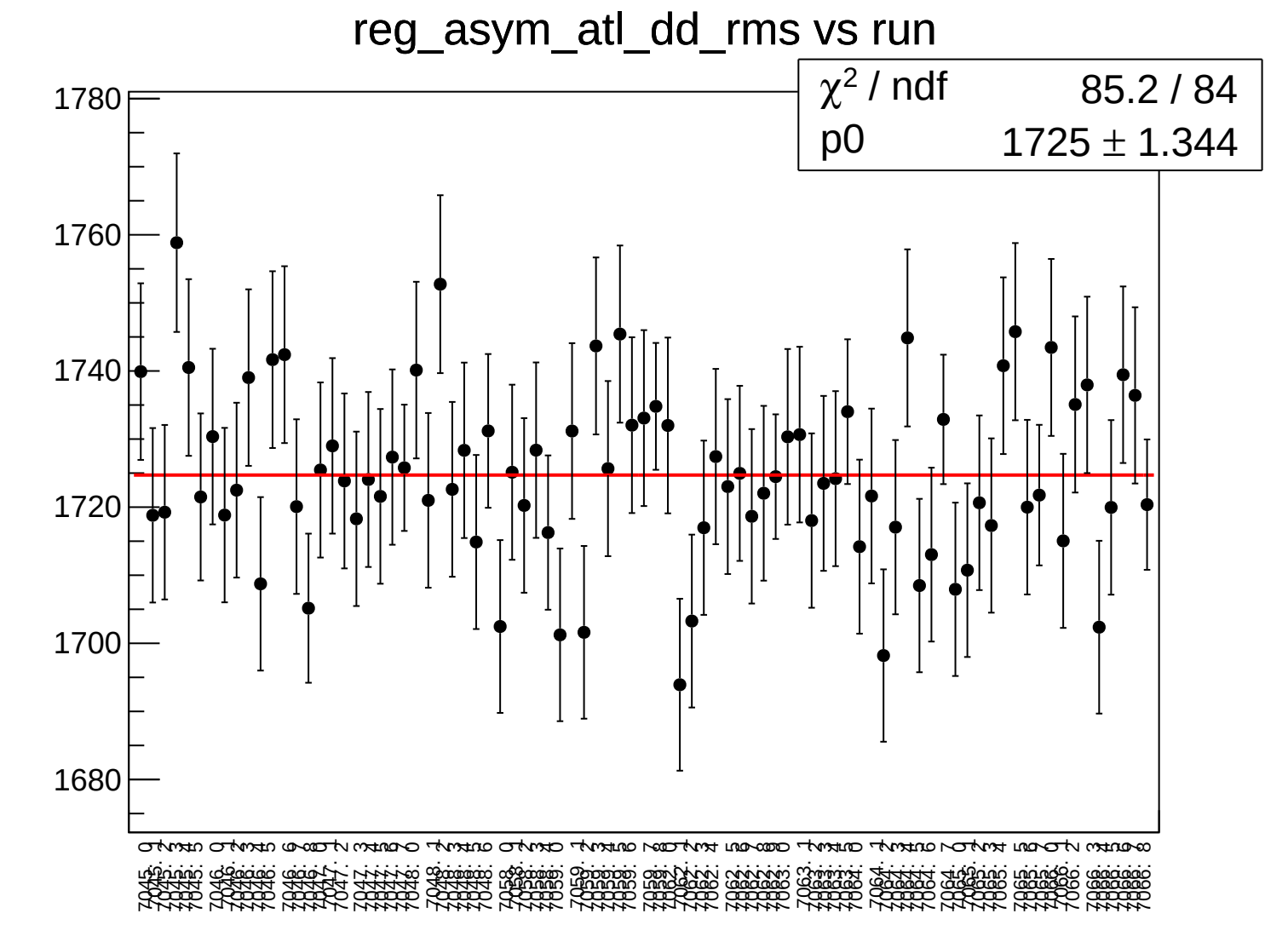

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 84
p0 397.9 ± 0.3131
750
700
650
600
550
500
450
400
350
300

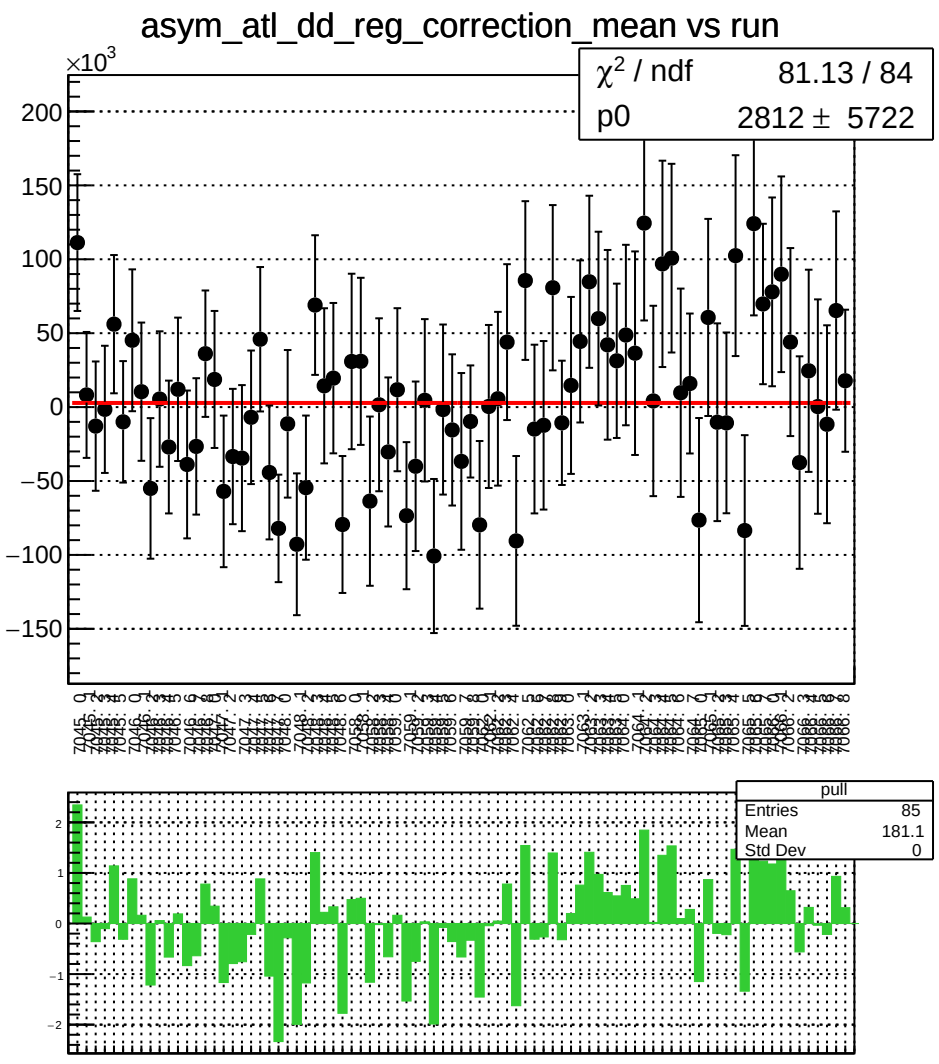

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.46 / 84
p0 7.139e−14 ± 9.748e−14
pull
Entries 85
Mean 53.74
Std Dev 31.82
pull1D
Entries 85
Mean 0.1234
Std Dev 1.001

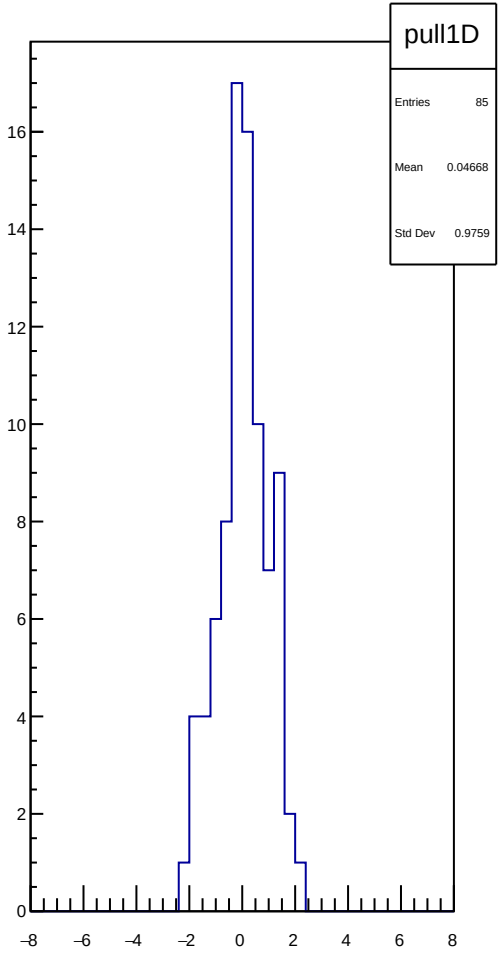

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.323e+05 / 84
p0 7.278e−11 ± 6.893e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

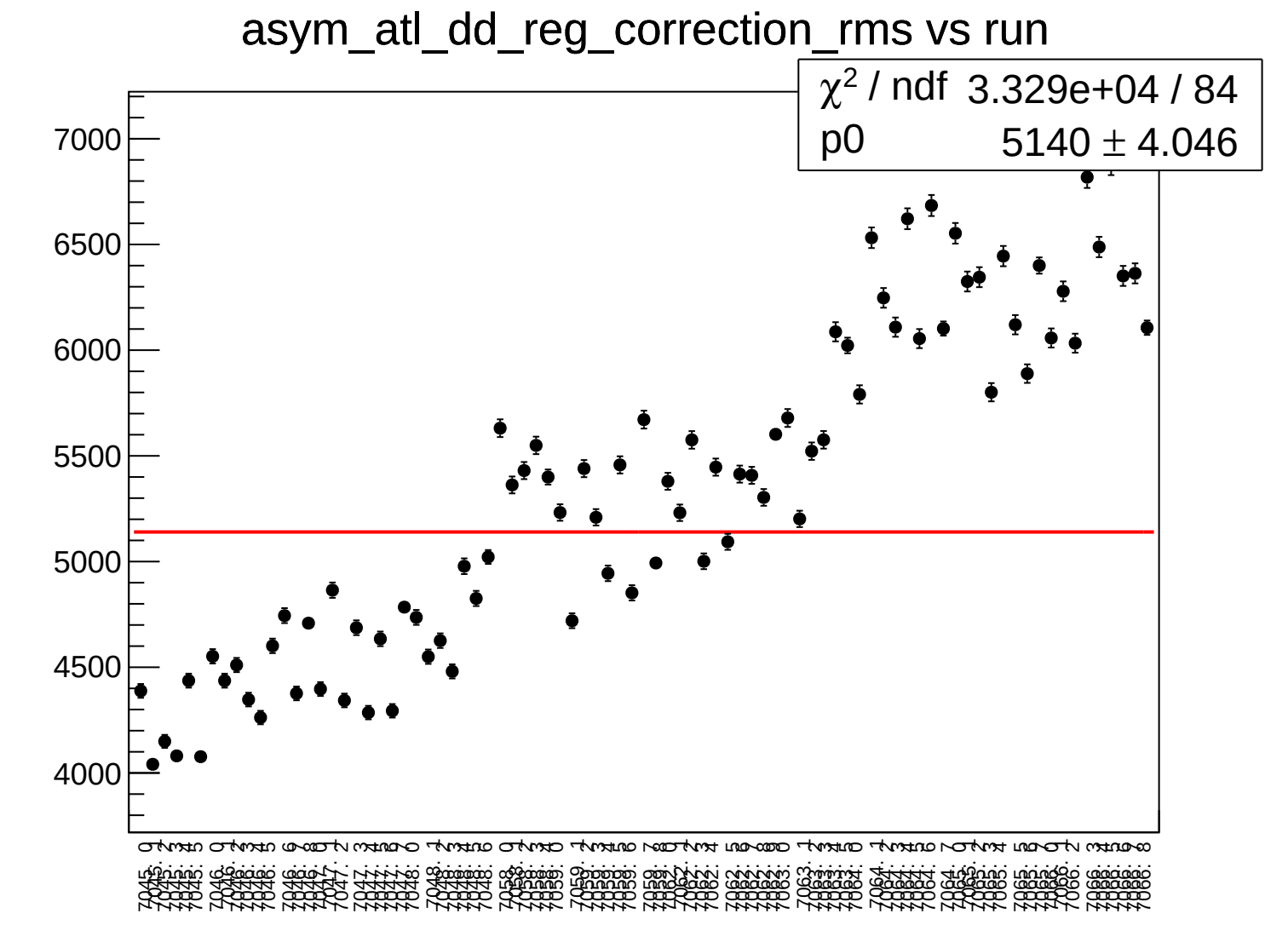

reg_asym_atl_dd_mean vs run
χ² / ndf 60.6 / 84
p0 −3334 ± 1901
pull
Entries 85
Mean −397.4
Std Dev 0

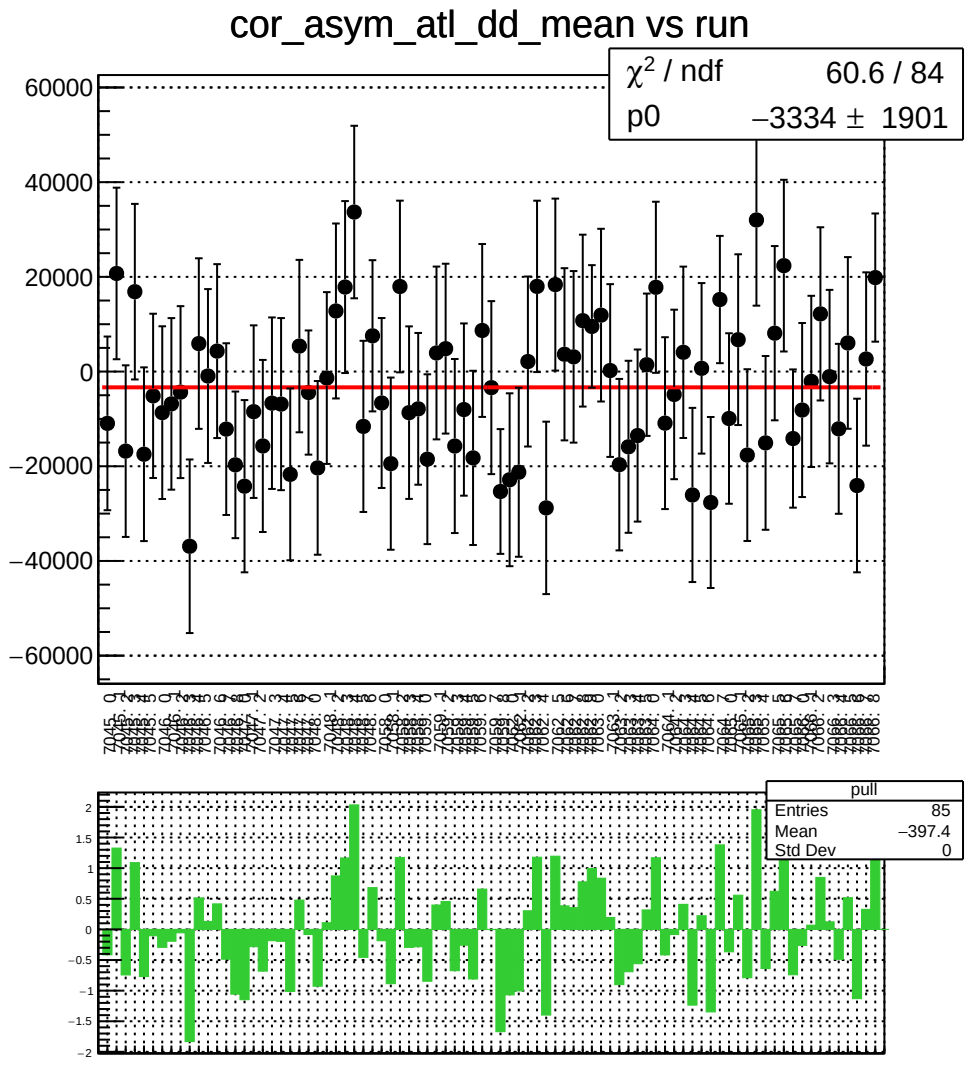

pull1D
Entries 85
Mean −0.006815
Std Dev 0.8443

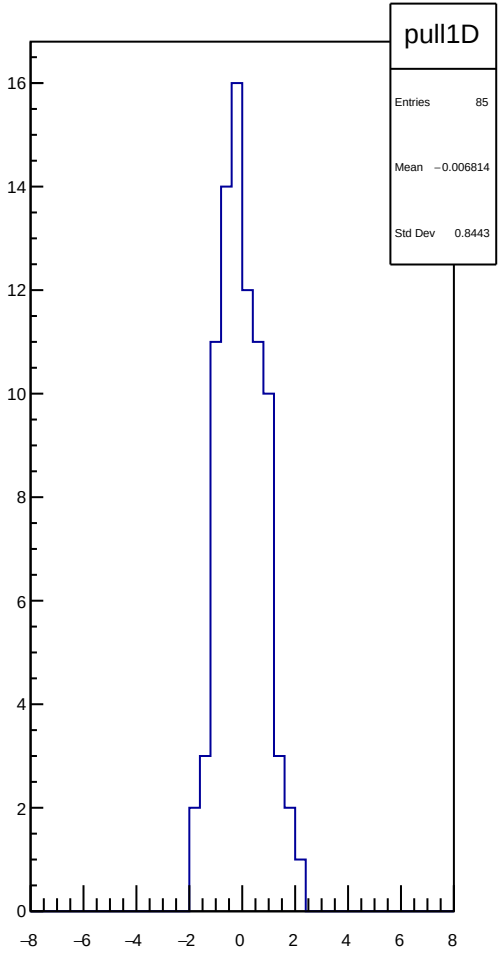

reg_asym_atl_dd_rms vs run
χ^2 / ndf 85.2 / 84
p0 1725 ± 1.344
1780
1760
1740
1720
1700
1680

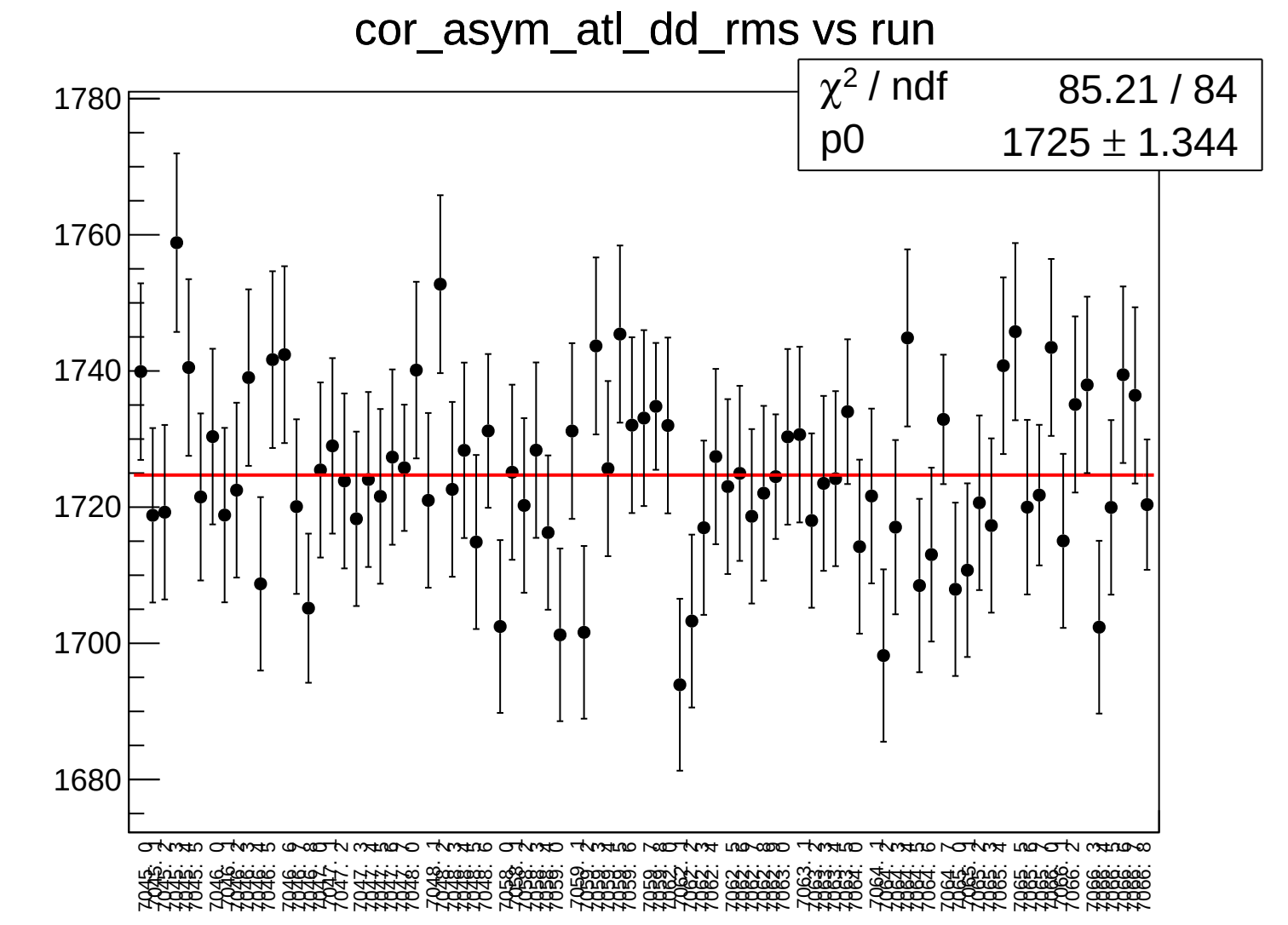

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.13 / 84
p0 2812 ± 5722
pull
Entries 85
Mean 181.1
Std Dev 0

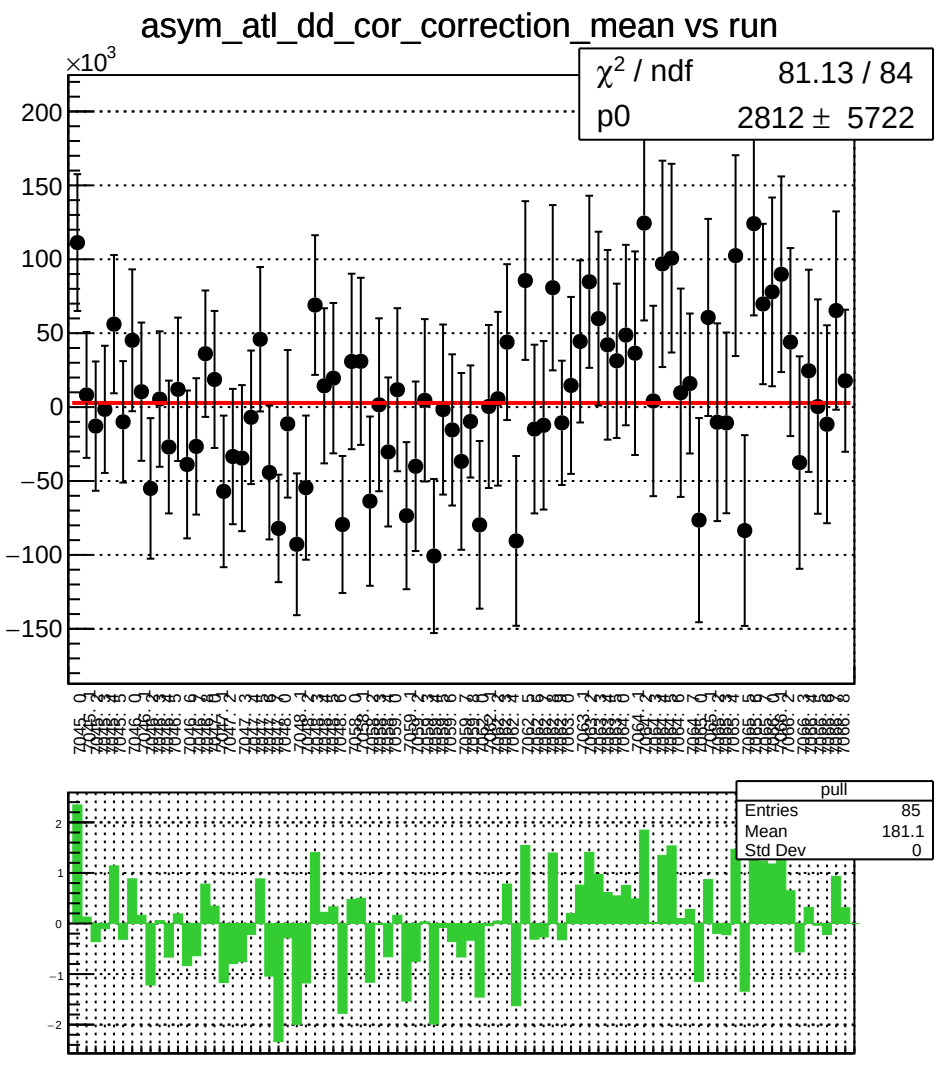

pull1D
Entries 85
Mean 0.04668
Std Dev 0.9759

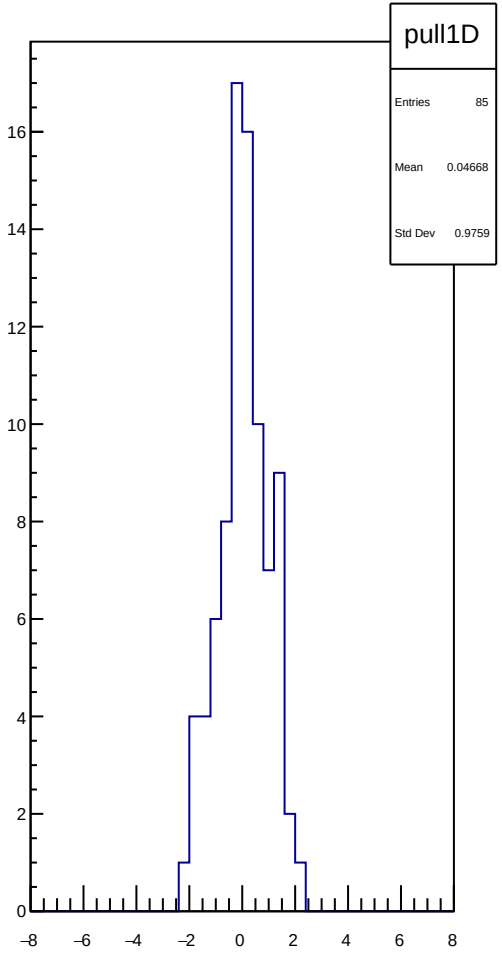

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3.329e+04 / 84
p0 5140 ± 4.046
7000
6500
6000
5500
5000
4500
4000

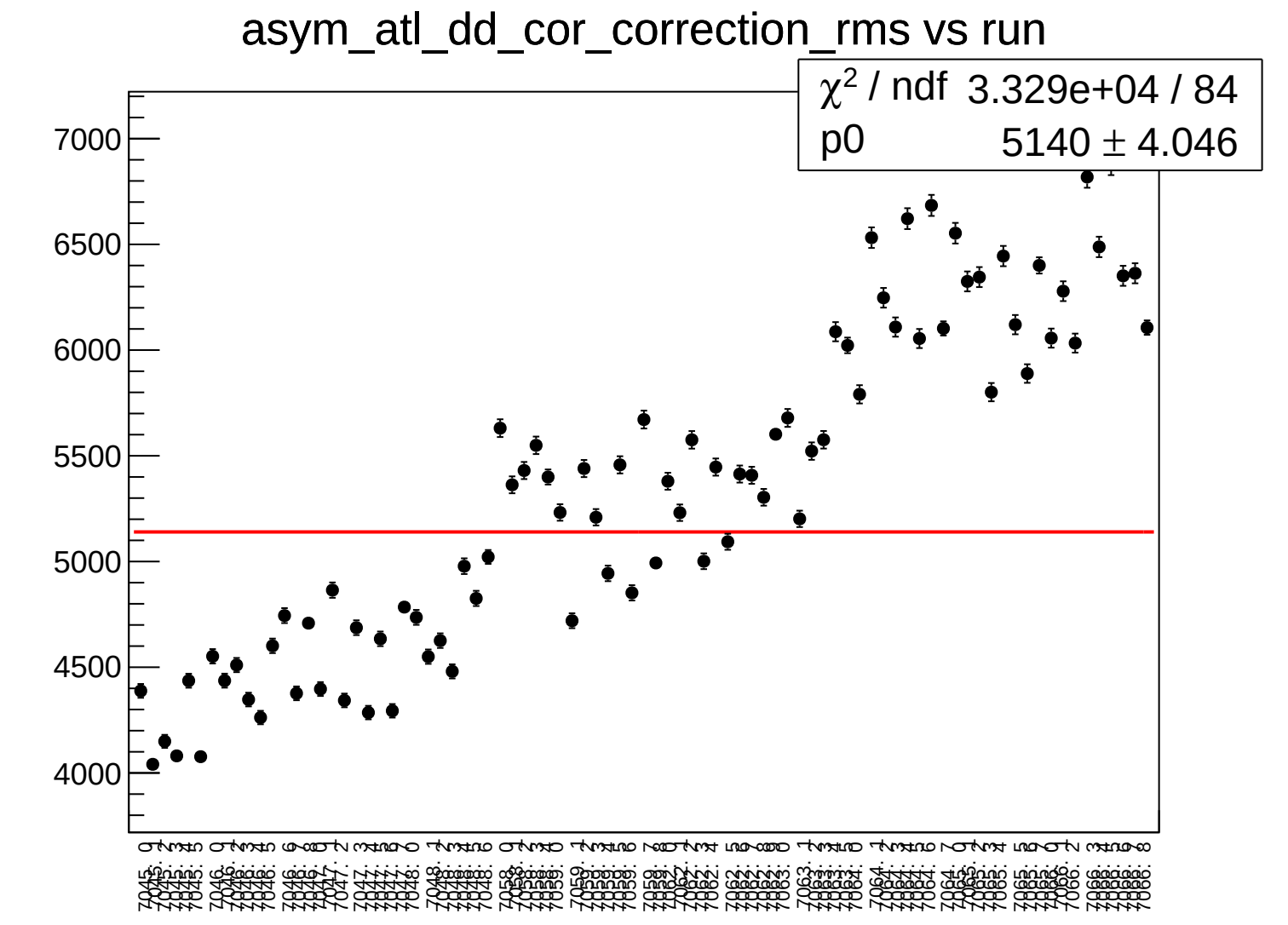

cor_asym_atl_dd_mean vs run
χ² / ndf 60.6 / 84
p0 −3334 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −397.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

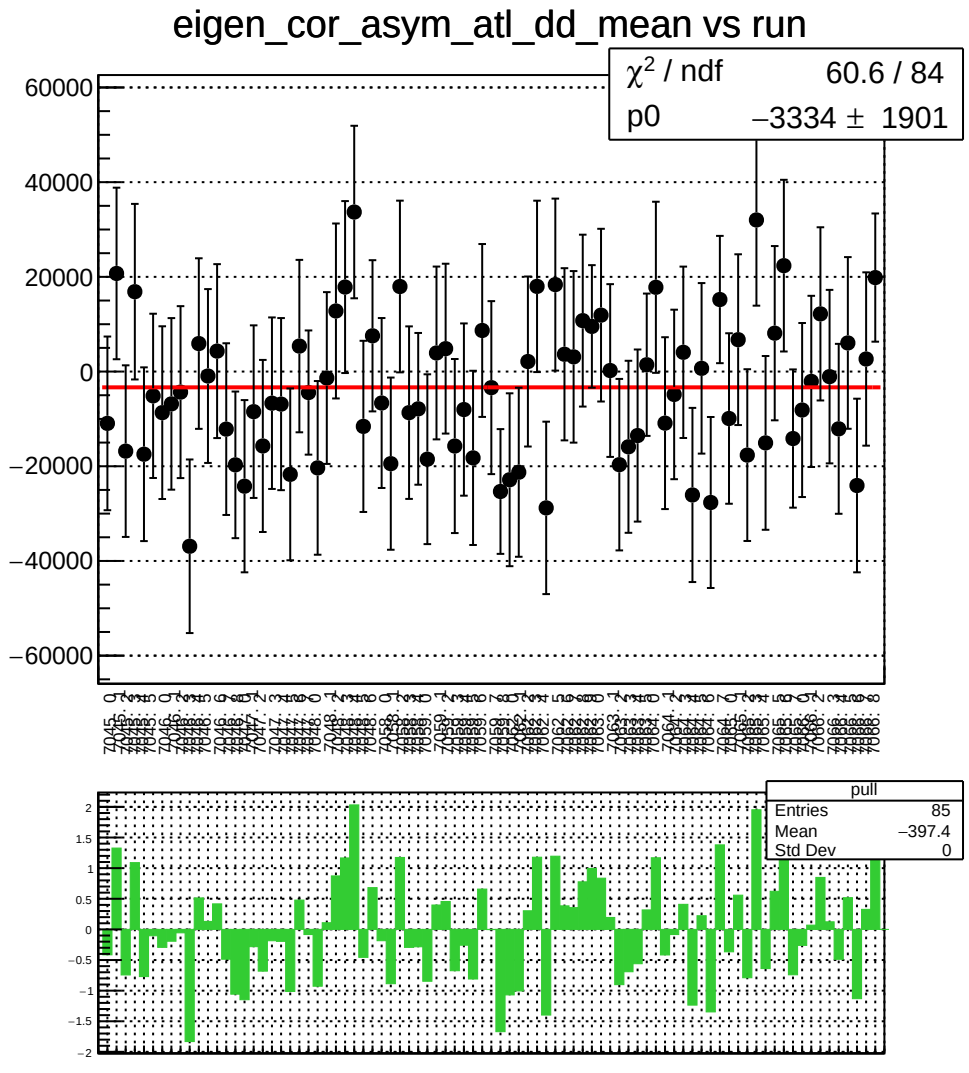

pull1D
Entries 85
Mean −0.006814
Std Dev 0.8443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

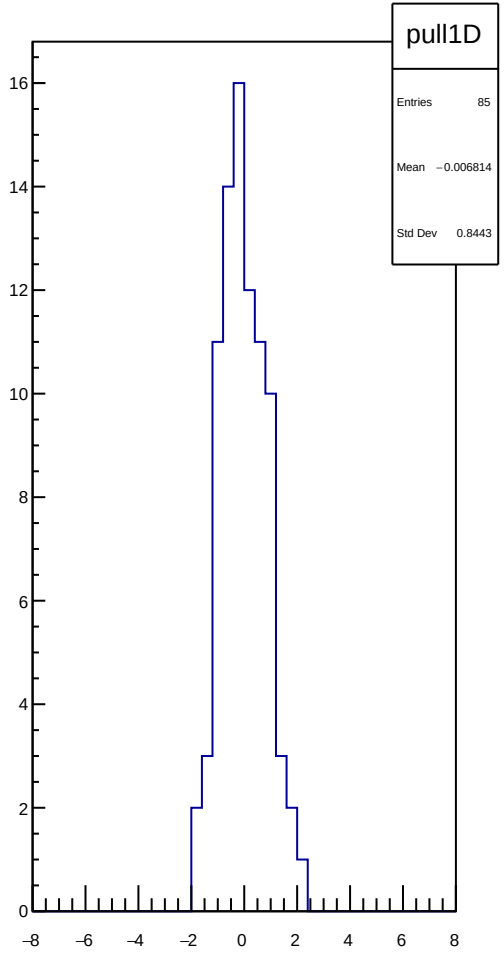

cor_asym_atl_dd_rms vs run
χ² / ndf 85.21 / 84
p0 1725 ± 1.344
1780
1760
1740
1720
1700
1680

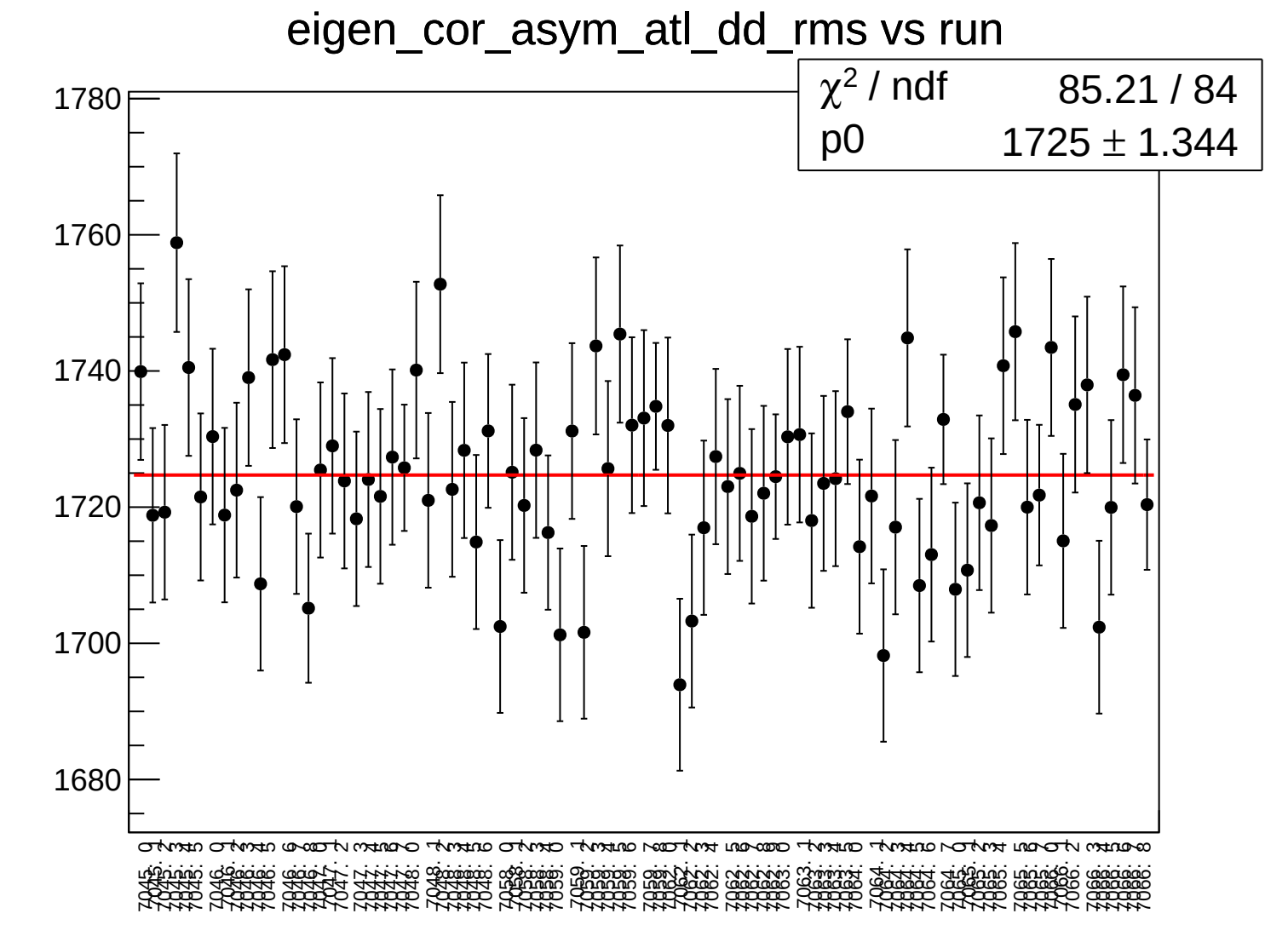

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 81.13 / 84
p0 2812 ± 5722
×10³
pull
Entries 85
Mean 181.1
Std Dev 0

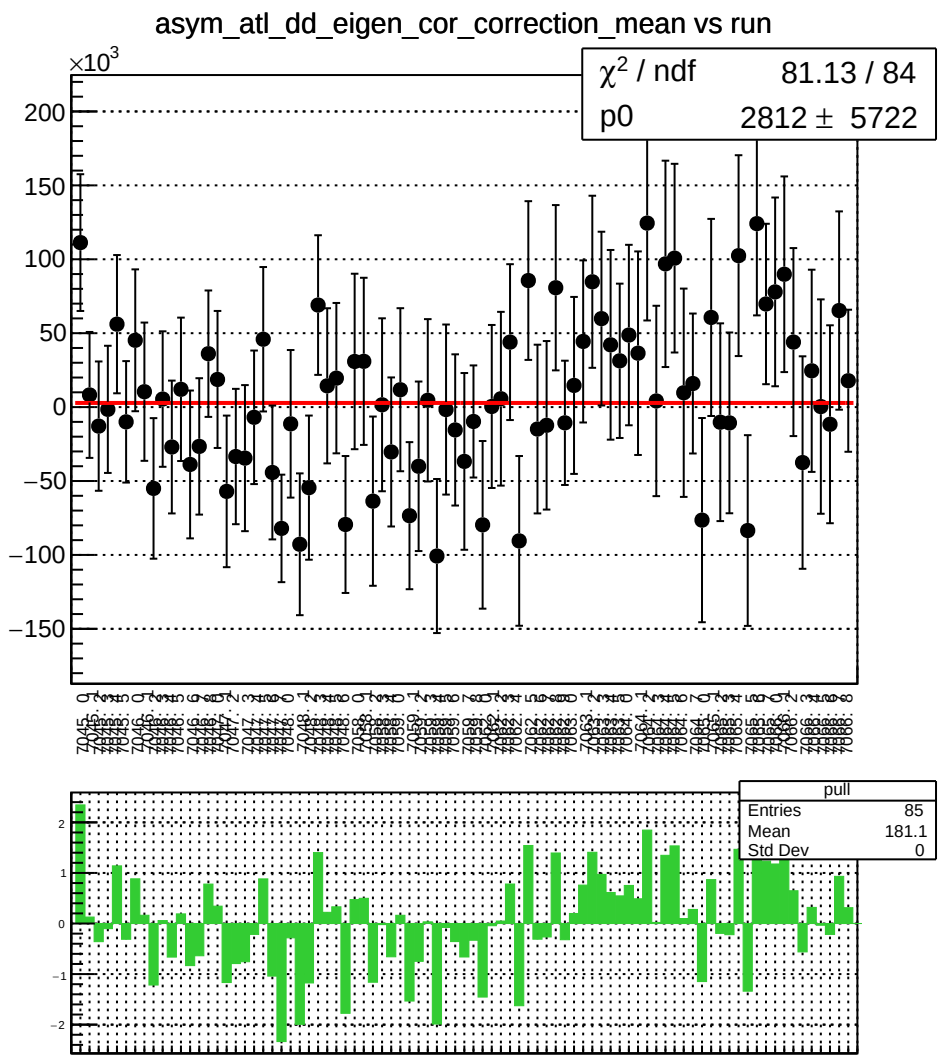

pull1D
Entries 85
Mean 0.04668
Std Dev 0.9759

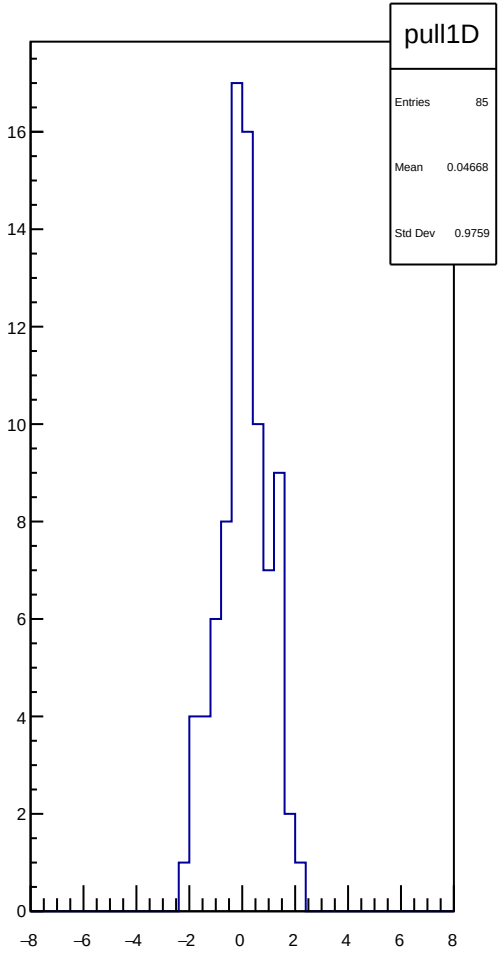

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3.329e+04 / 84
p0 5140 ± 4.046
7000
6500
6000
5500
5000
4500
4000

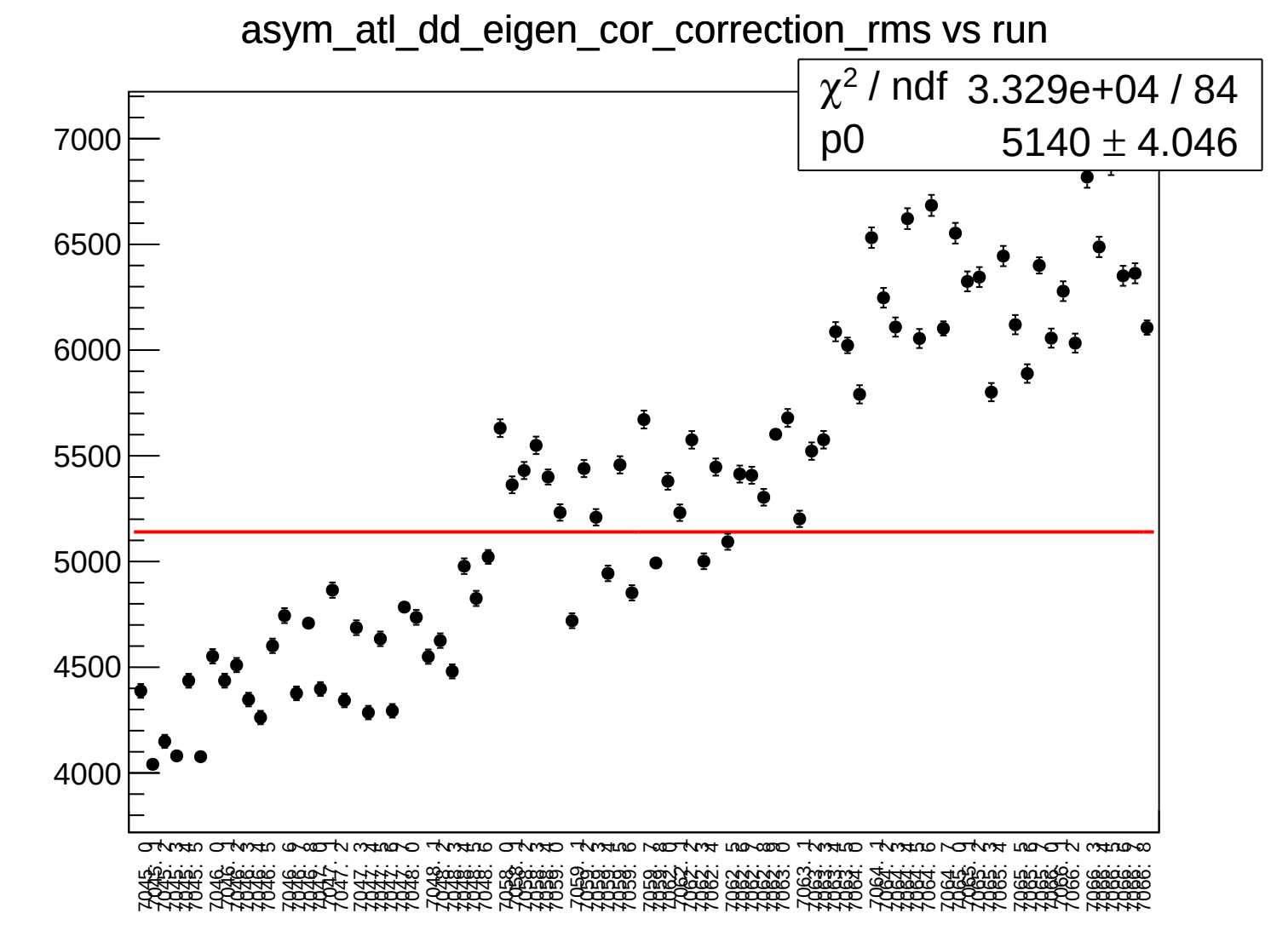

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 60.6 / 84
p0 −3334 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −397.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

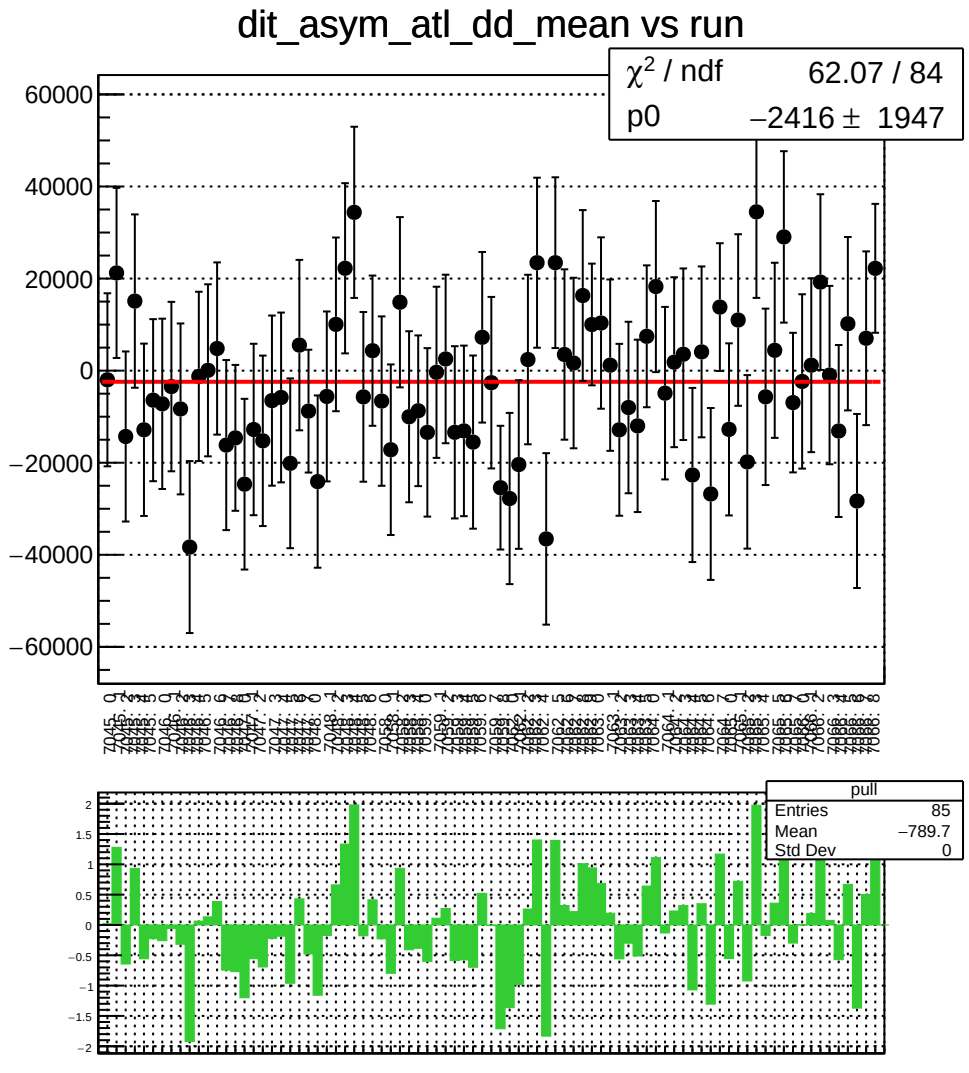

pull1D
Entries 85
Mean −0.006814
Std Dev 0.8443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

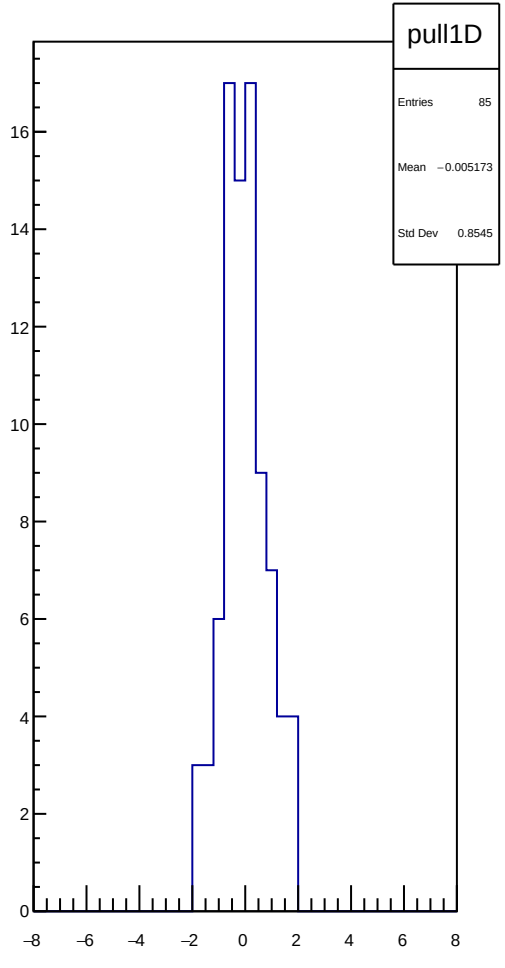

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 85.21 / 84
p0 1725 ± 1.344
1780
1760
1740
1720
1700
1680

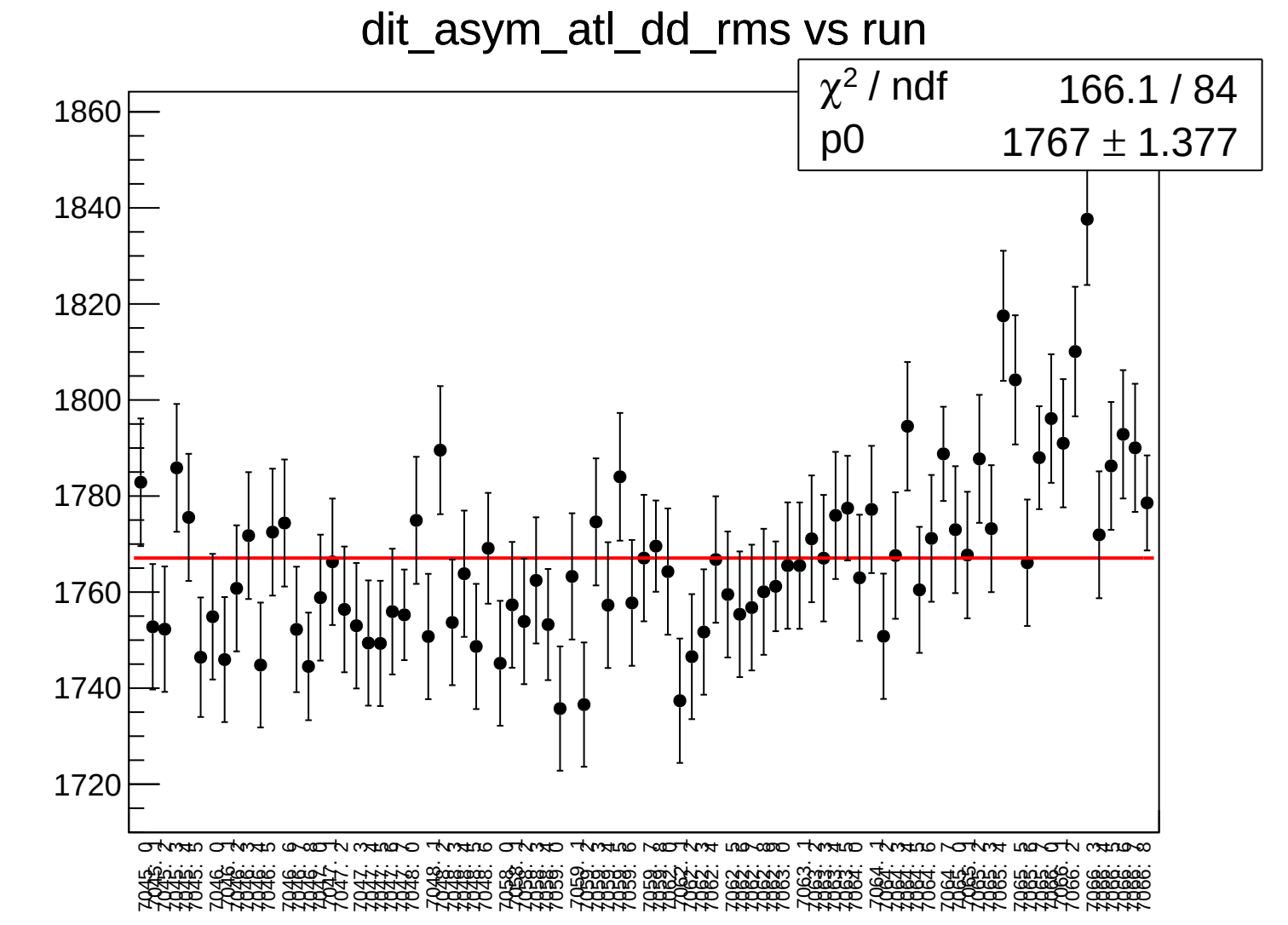

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.13 / 84
p0 2812 ± 5722
pull
Entries 85
Mean 181.1
Std Dev 0

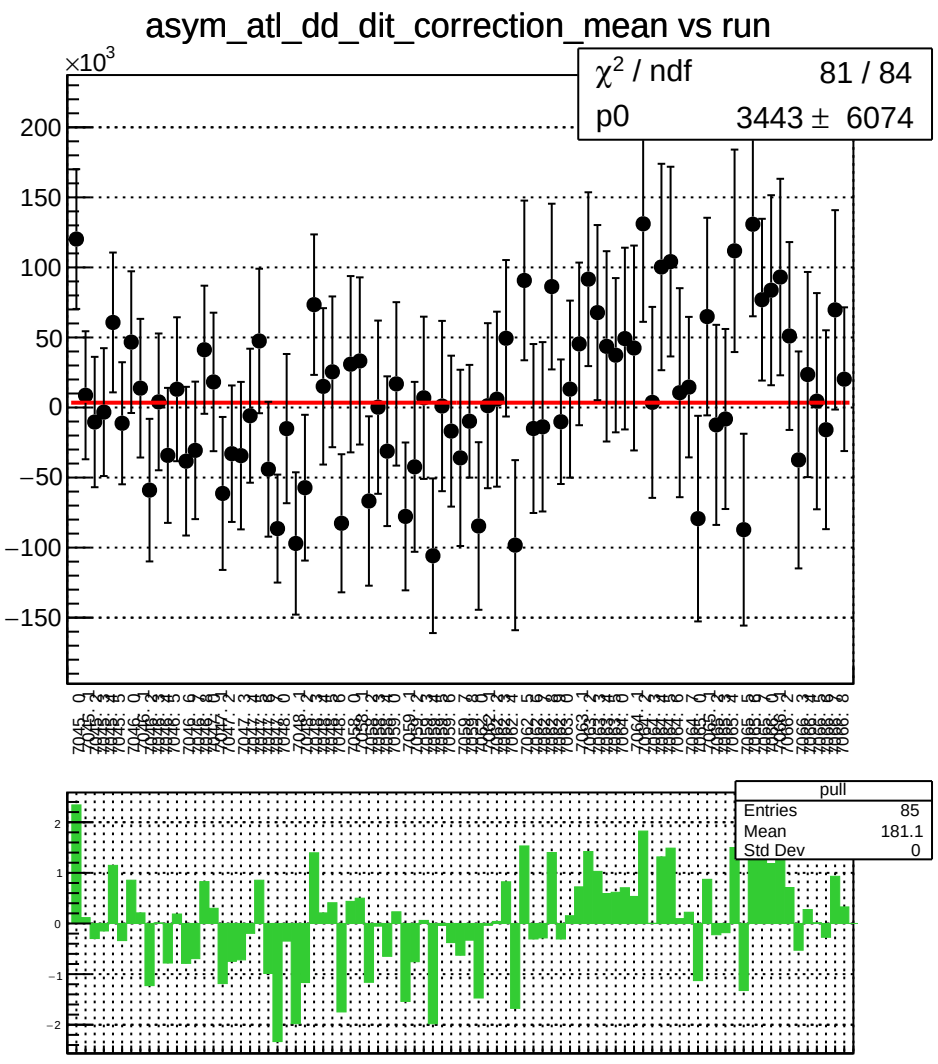

pull1D
Entries 85
Mean 0.04668
Std Dev 0.9759

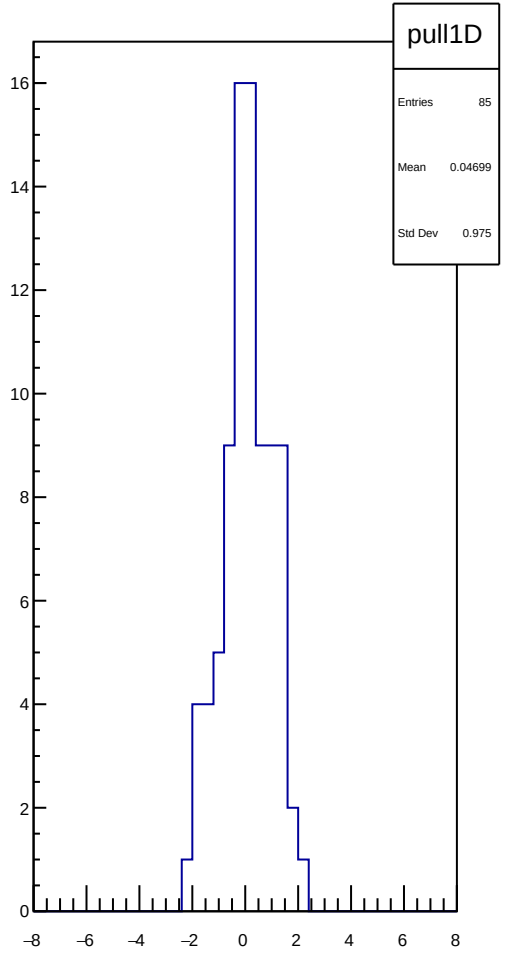

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.329e+04 / 84
p0 5140 ± 4.046
7000
6500
6000
5500
5000
4500
4000

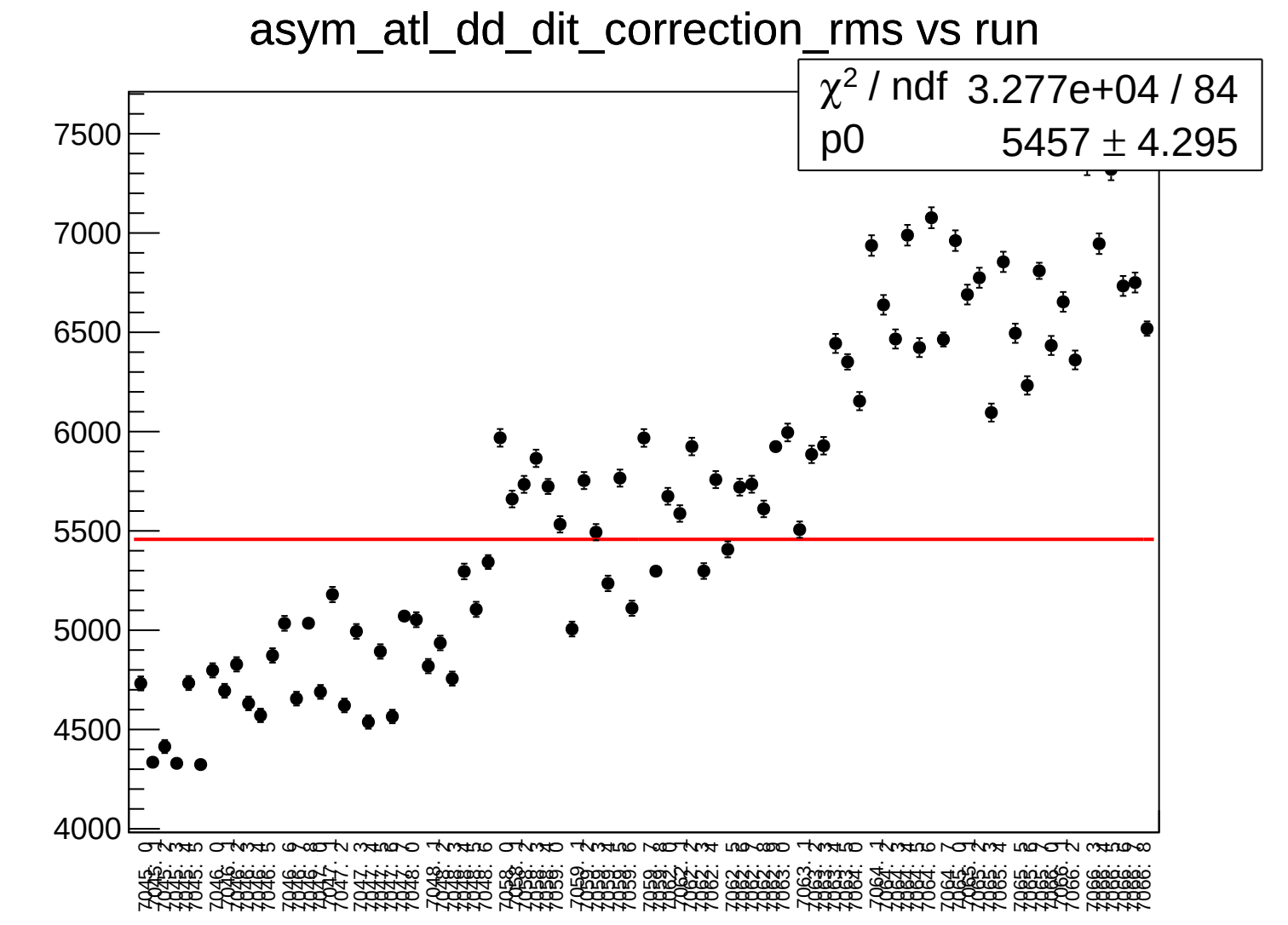

dit_asym_atl_dd_mean vs run
χ^2 / ndf 62.07 / 84
p0 −2416 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −789.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

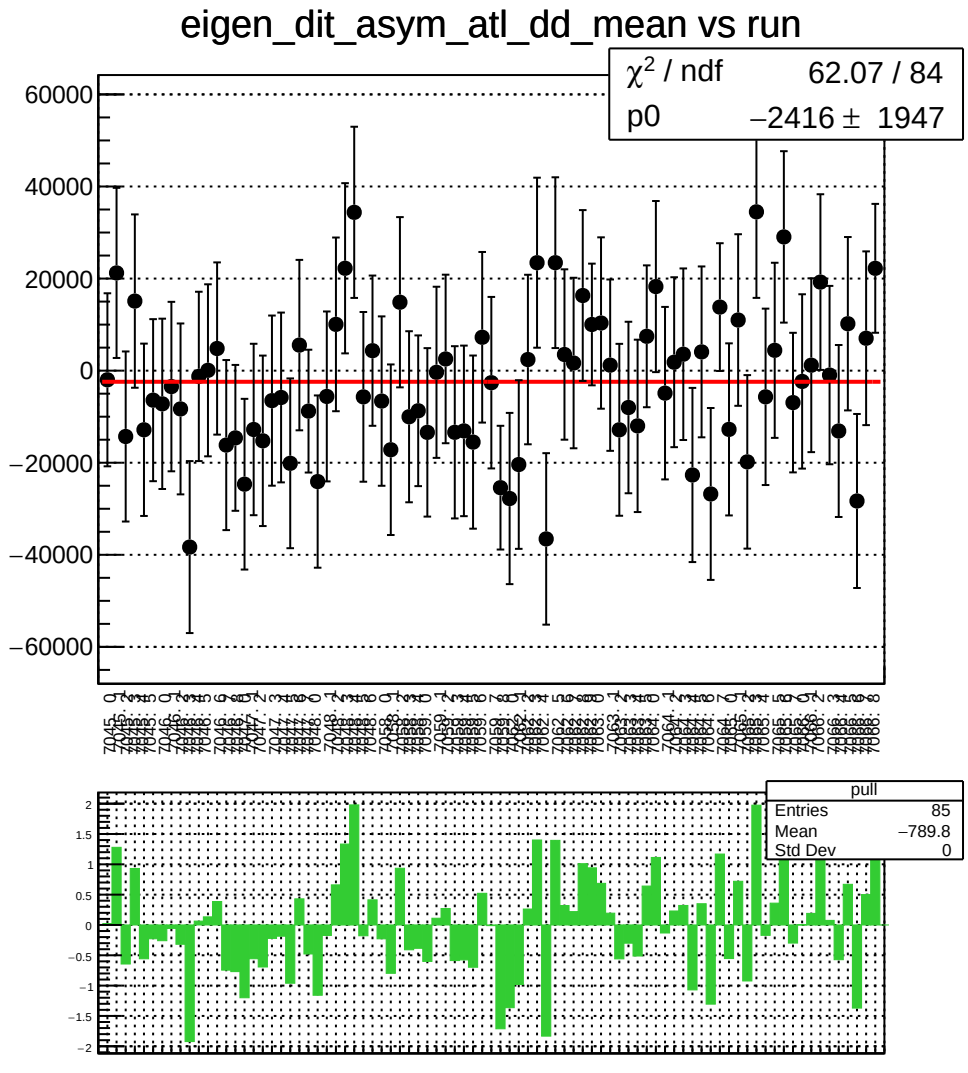

pull1D
Entries 85
Mean −0.005173
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

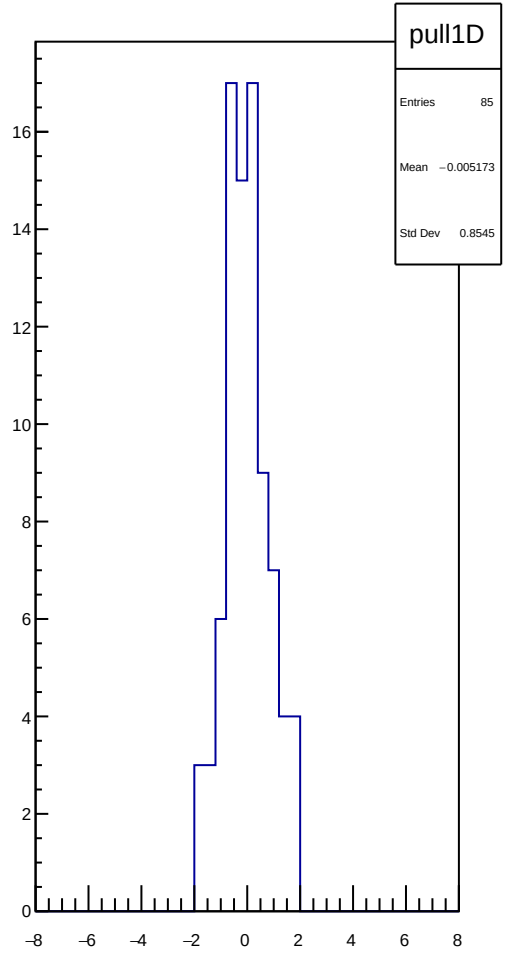

dit_asym_atl_dd_rms vs run
χ^2 / ndf 166.1 / 84
p0 1767 ± 1.377
1860
1840
1820
1800
1780
1760
1740
1720

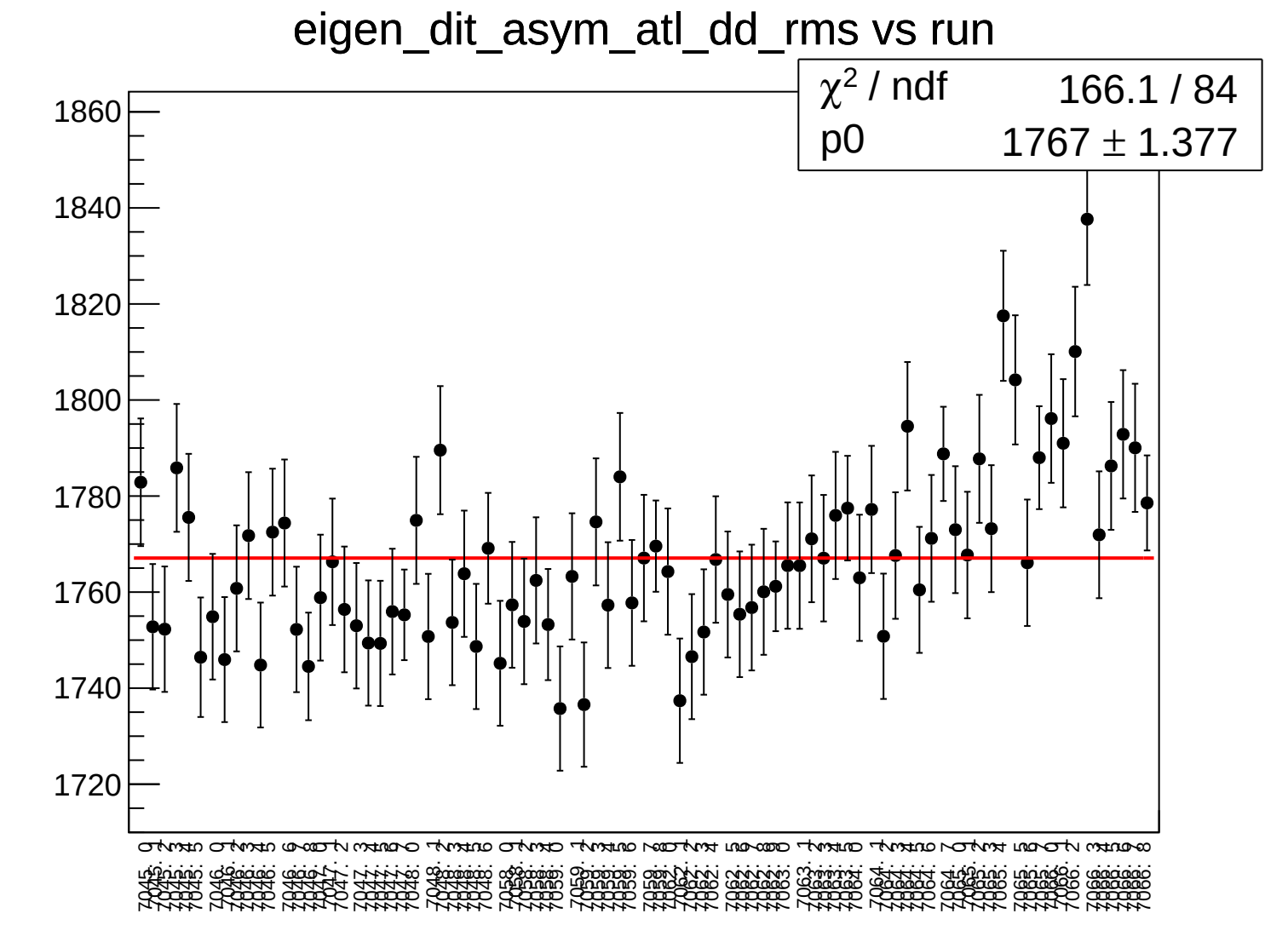

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81 / 84
p0 3443 ± 6074
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 181.1
Std Dev 0
2
1
0
−1
−2

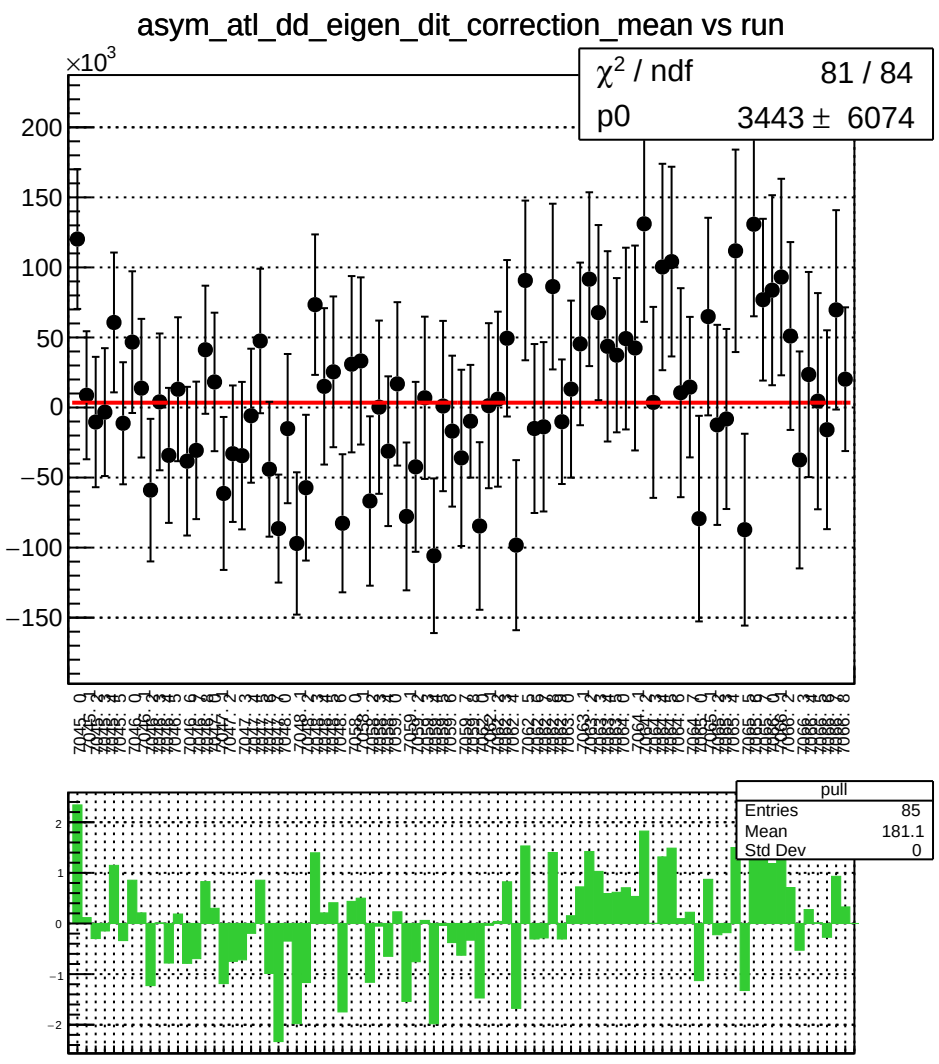

pull1D
Entries 85
Mean 0.04699
Std Dev 0.975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

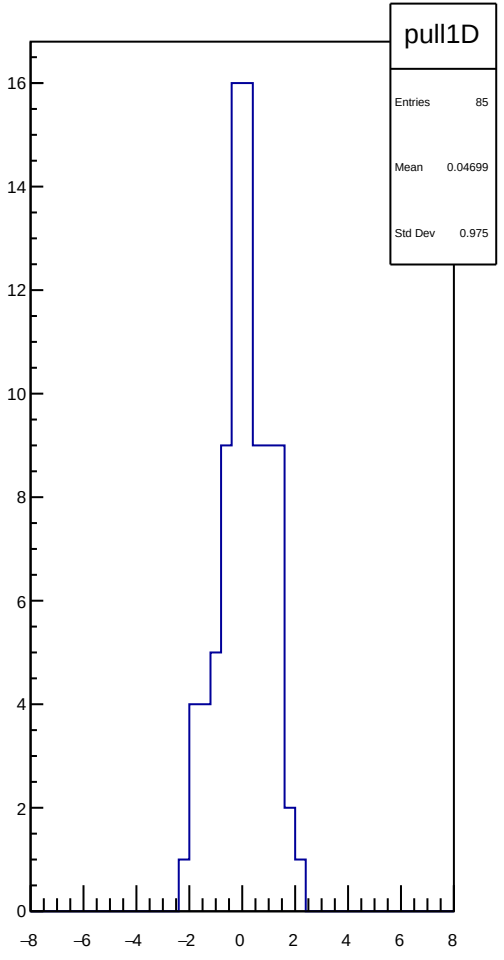

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3.277e+04 / 84
p0 5457 ± 4.295
7500
7000
6500
6000
5500
5000
4500
4000

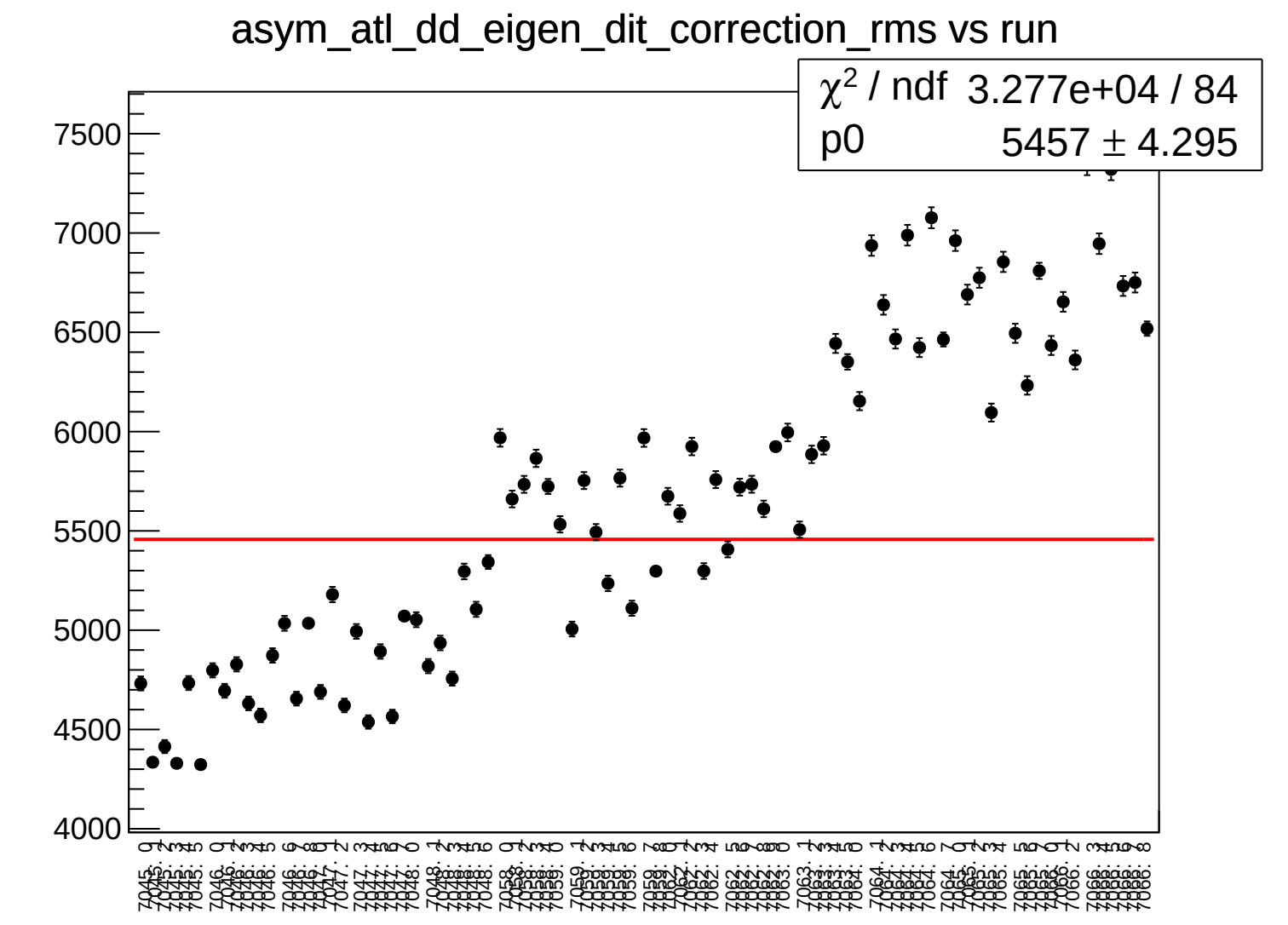

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 62.07 / 84
p0 −2416 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −789.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

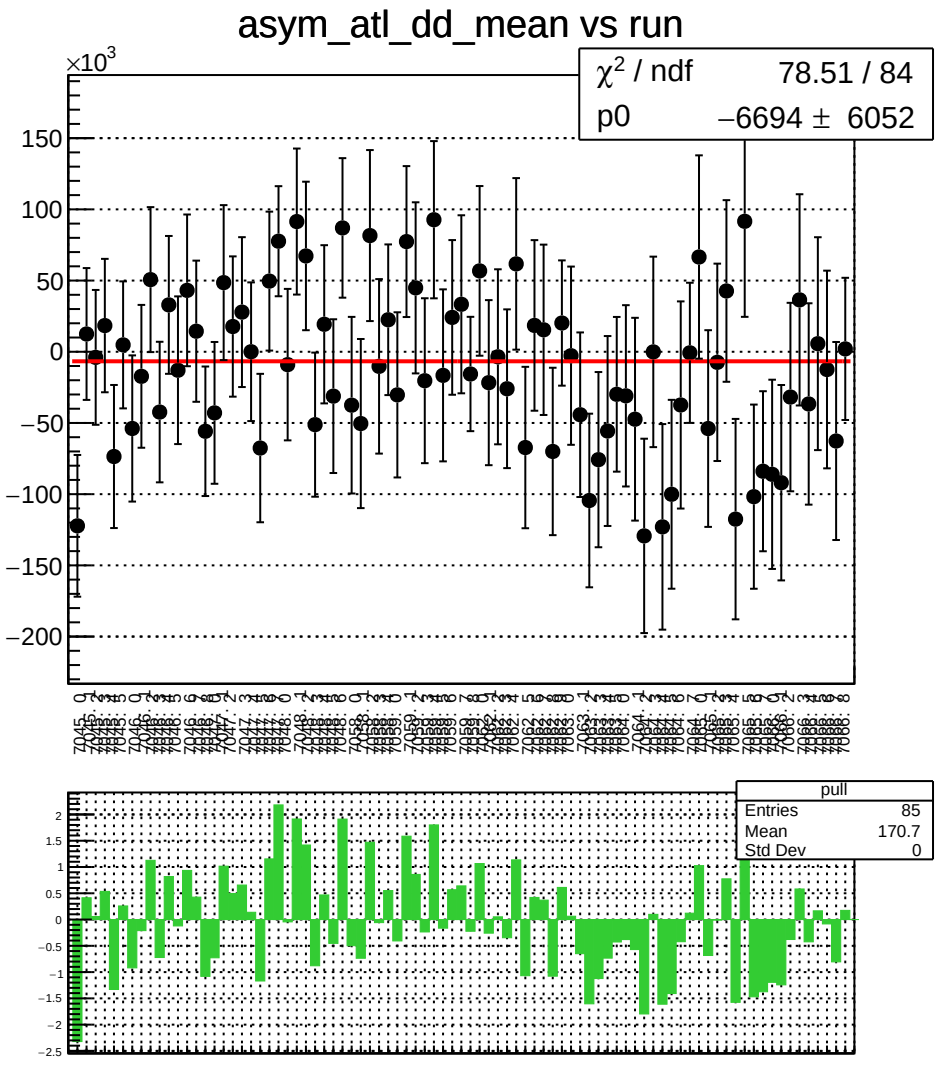

pull1D
Entries 85
Mean −0.005173
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

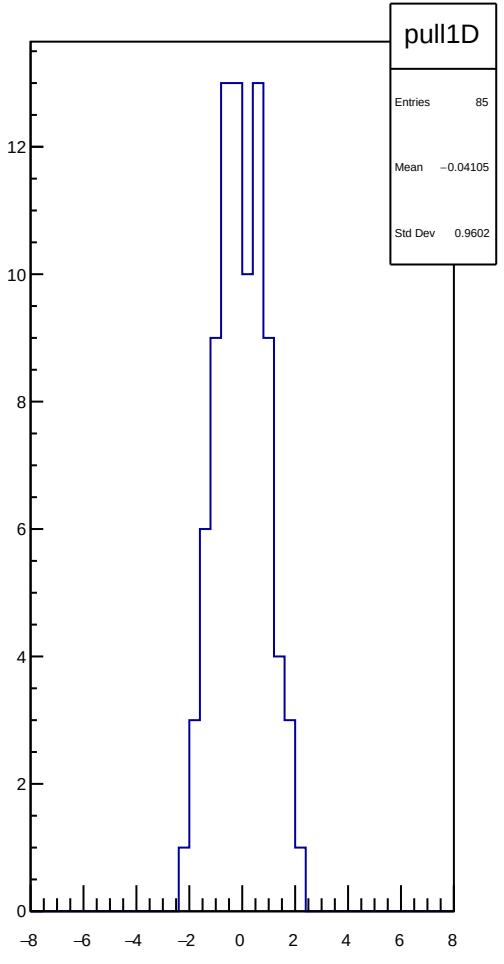

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 166.1 / 84
p0 1767 ± 1.377
1860
1840
1820
1800
1780
1760
1740
1720

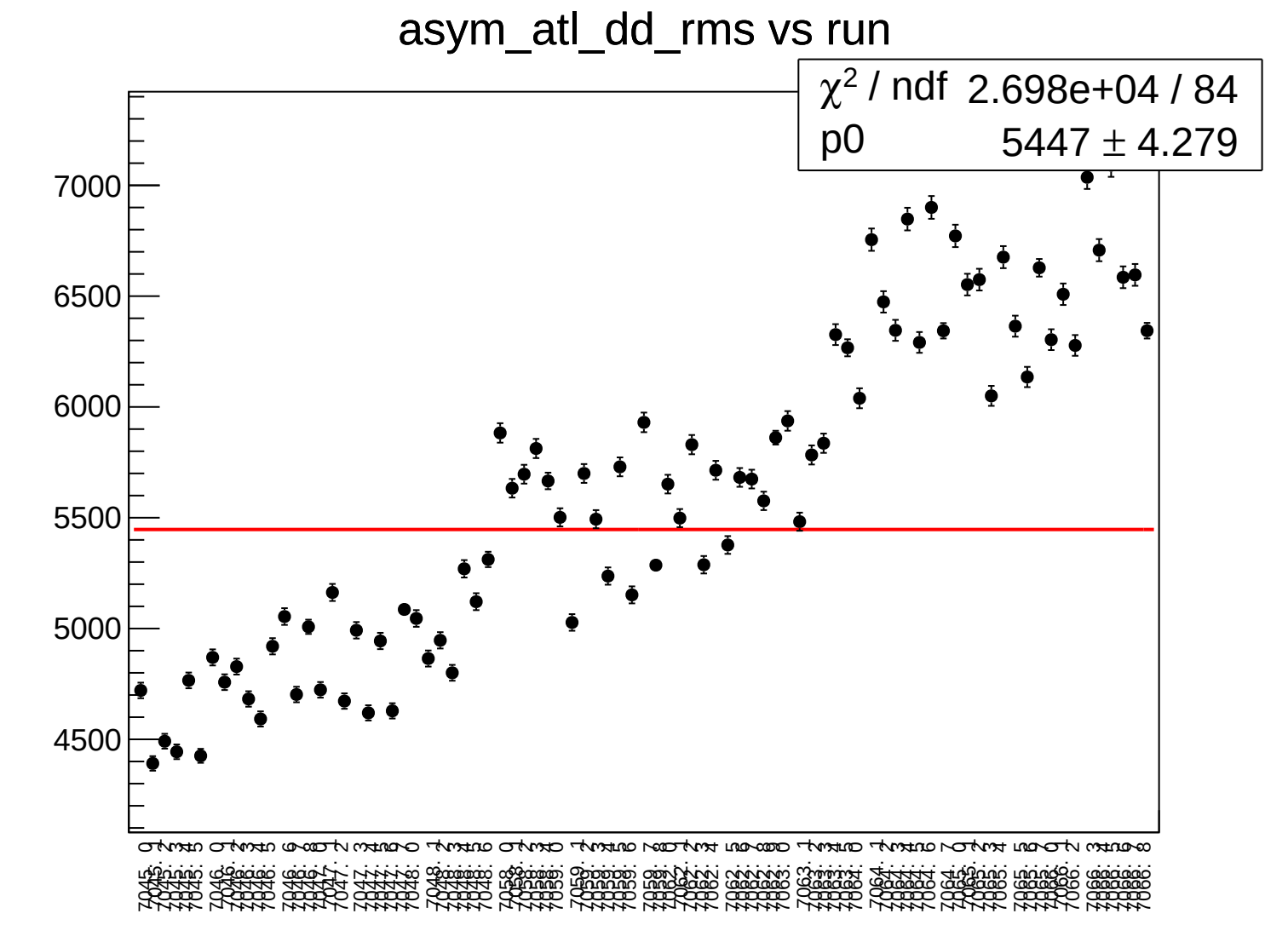

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81 / 84
p0 3443 ± 6074
pull
Entries 85
Mean 181.1
Std Dev 0

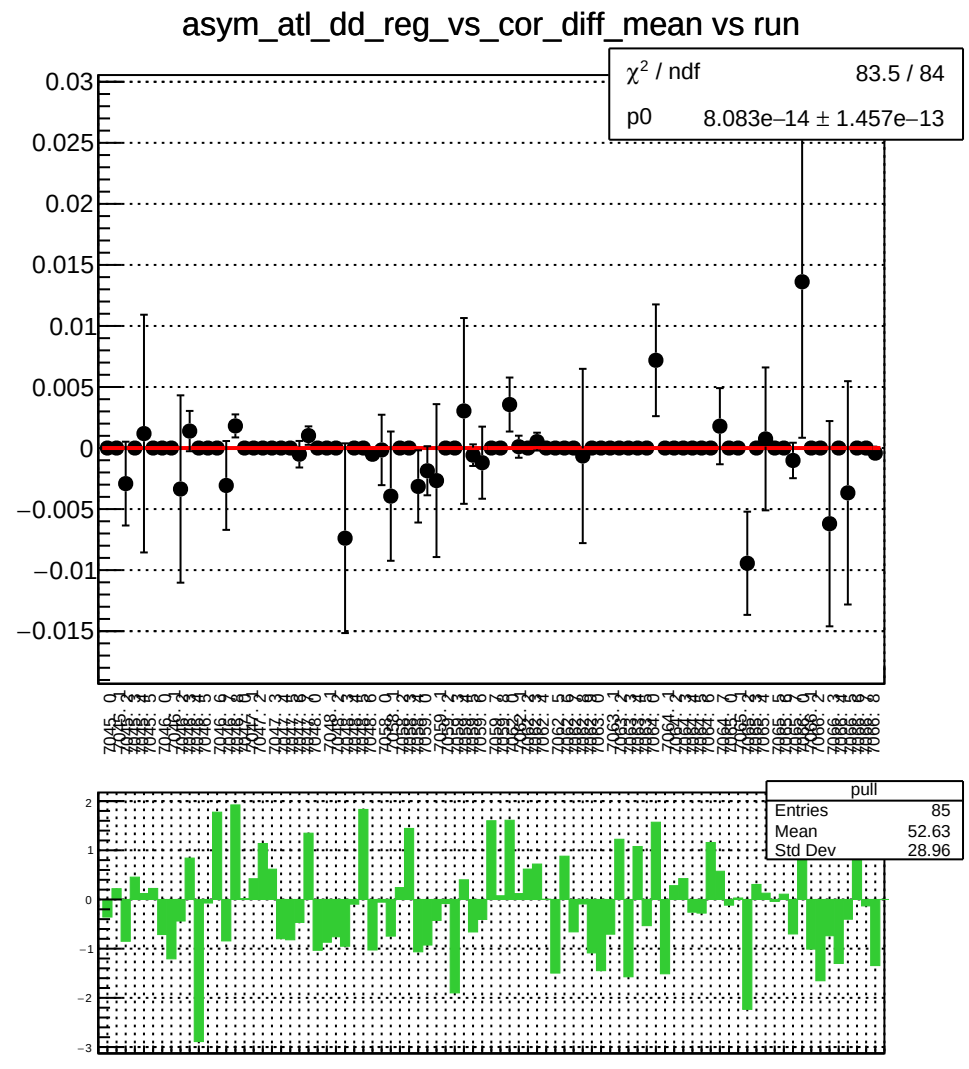

pull1D
Entries 85
Mean 0.04699
Std Dev 0.975

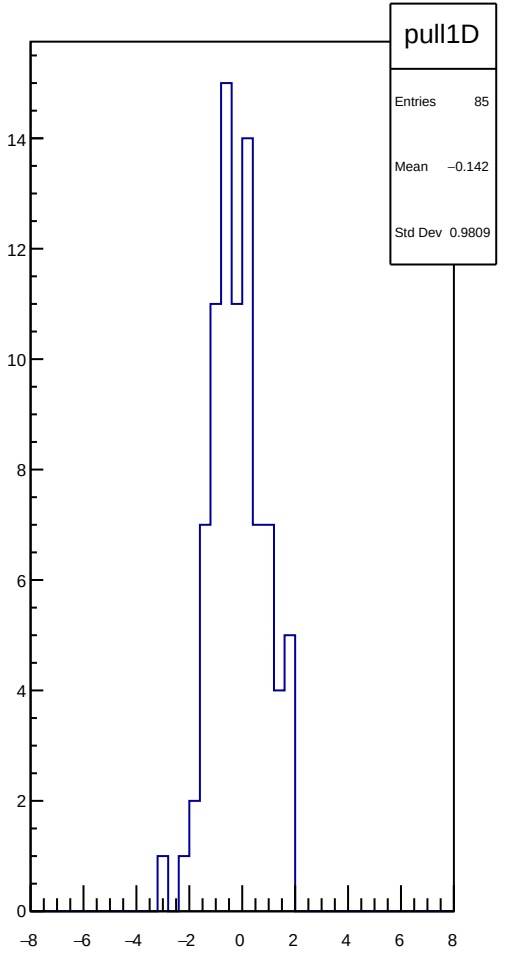

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.277e+04 / 84
p0 5457 ± 4.295
7500
7000
6500
6000
5500
5000
4500
4000

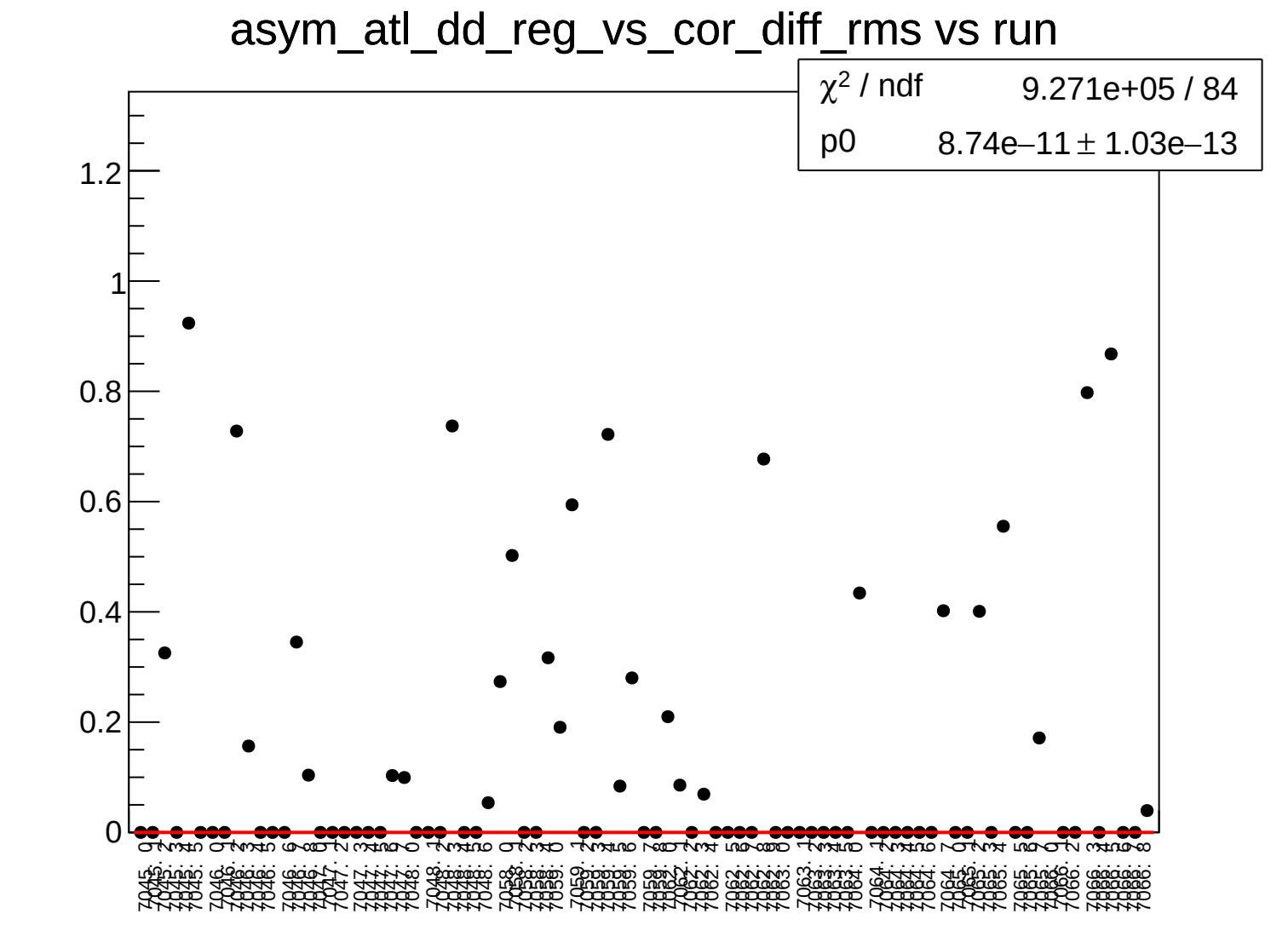

asym_atl_dd_mean vs run
×10^3
χ² / ndf 78.51 / 84
p0 −6694 ± 6052
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 170.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

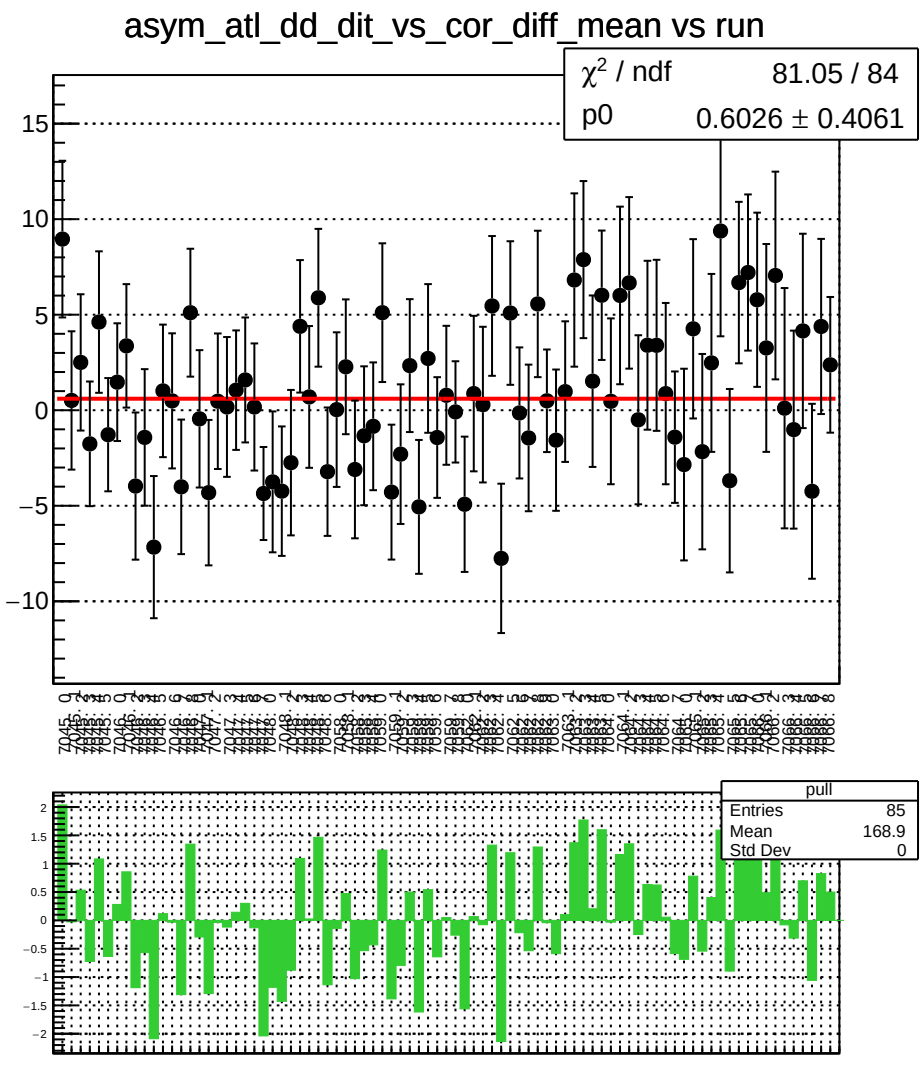

pull1D
Entries 85
Mean −0.04105
Std Dev 0.9602
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

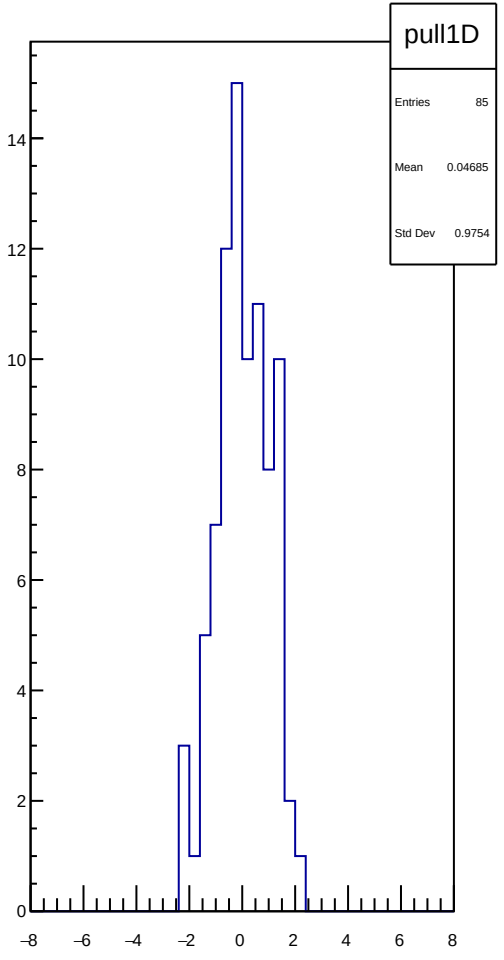

asym_atl_dd_rms vs run
χ^2 / ndf 2.698e+04 / 84
p0 5447 ± 4.279
7000
6500
6000
5500
5000
4500

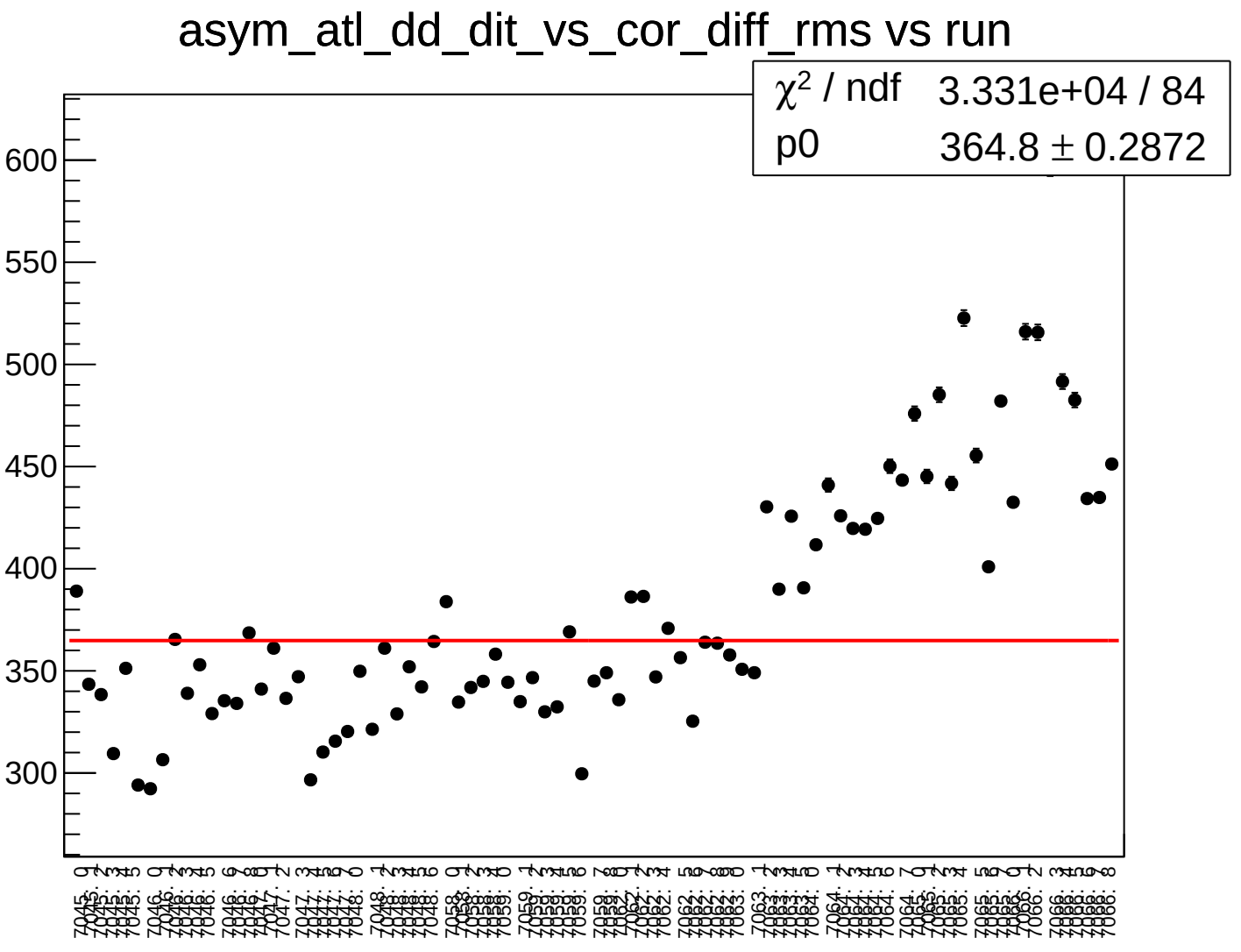

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.5 / 84
p0 8.083e−14 ± 1.457e−13
pull
Entries 85
Mean 52.63
Std Dev 28.96

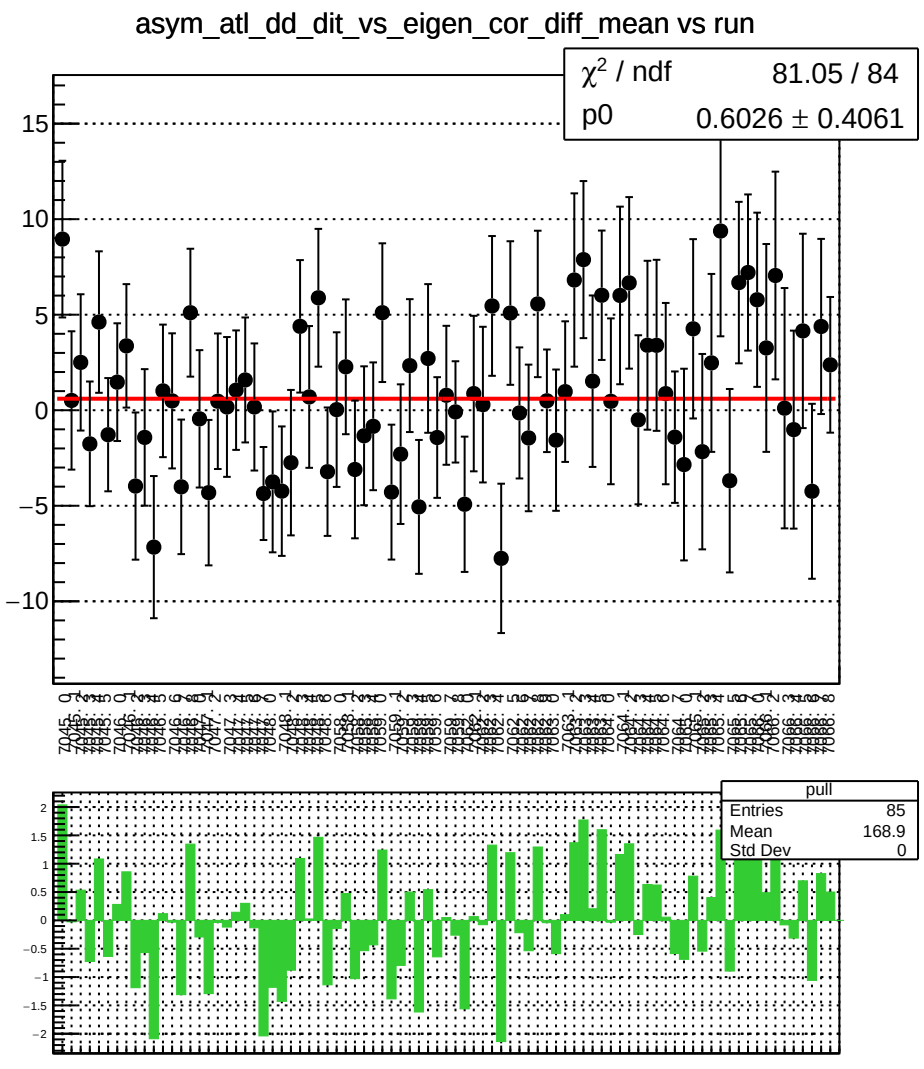

pull1D
Entries 85
Mean −0.142
Std Dev 0.9809

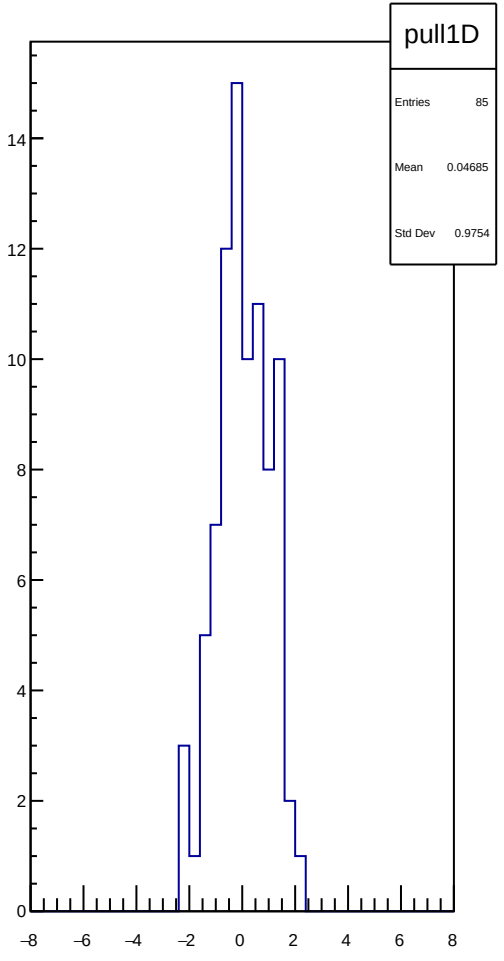

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.271e+05 / 84
p0 8.74e−11 ± 1.03e−13
1.2
1
0.8
0.6
0.4
0.2
0

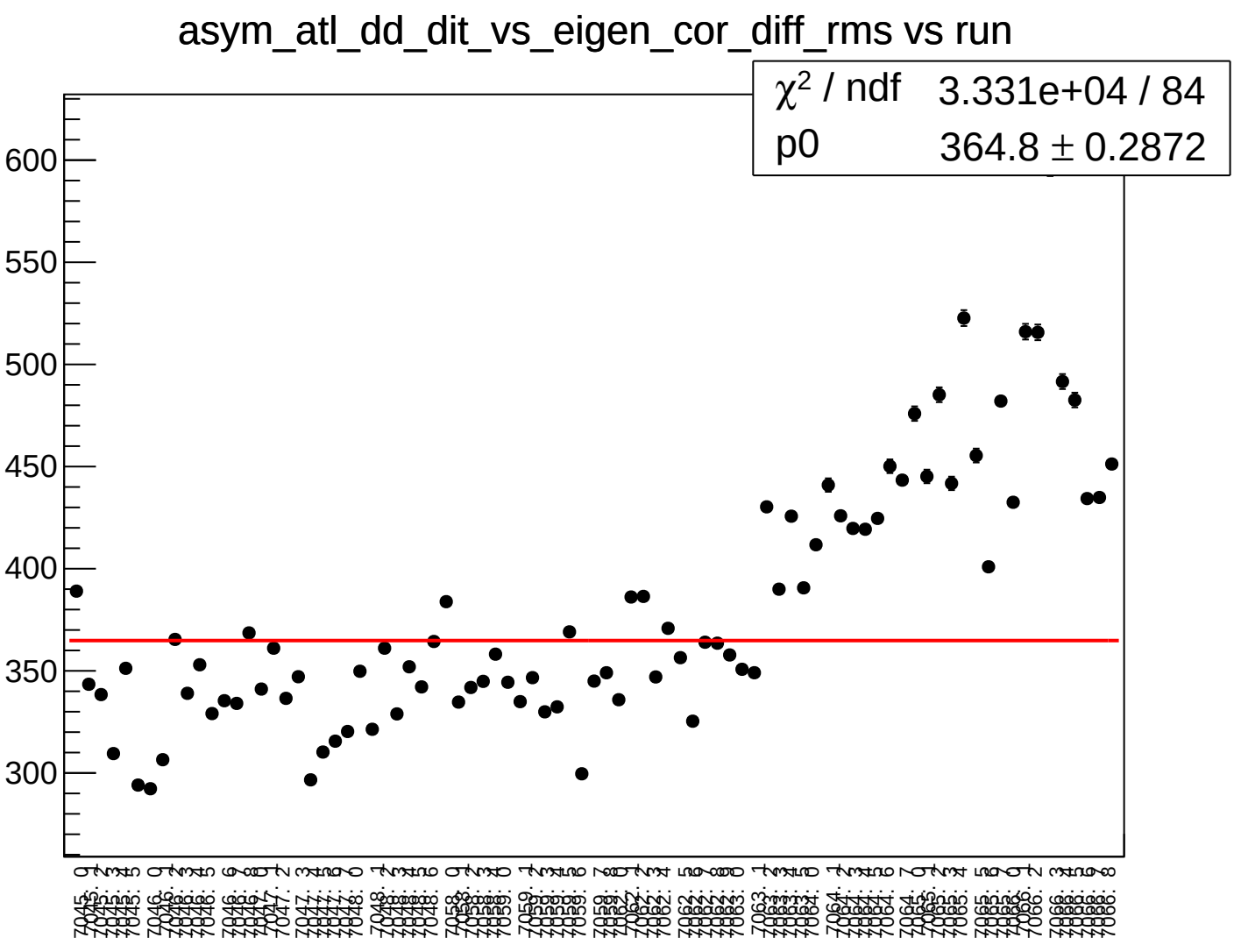

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.05 / 84
p0 0.6026 ± 0.4061
pull
Entries 85
Mean 168.9
Std Dev 0

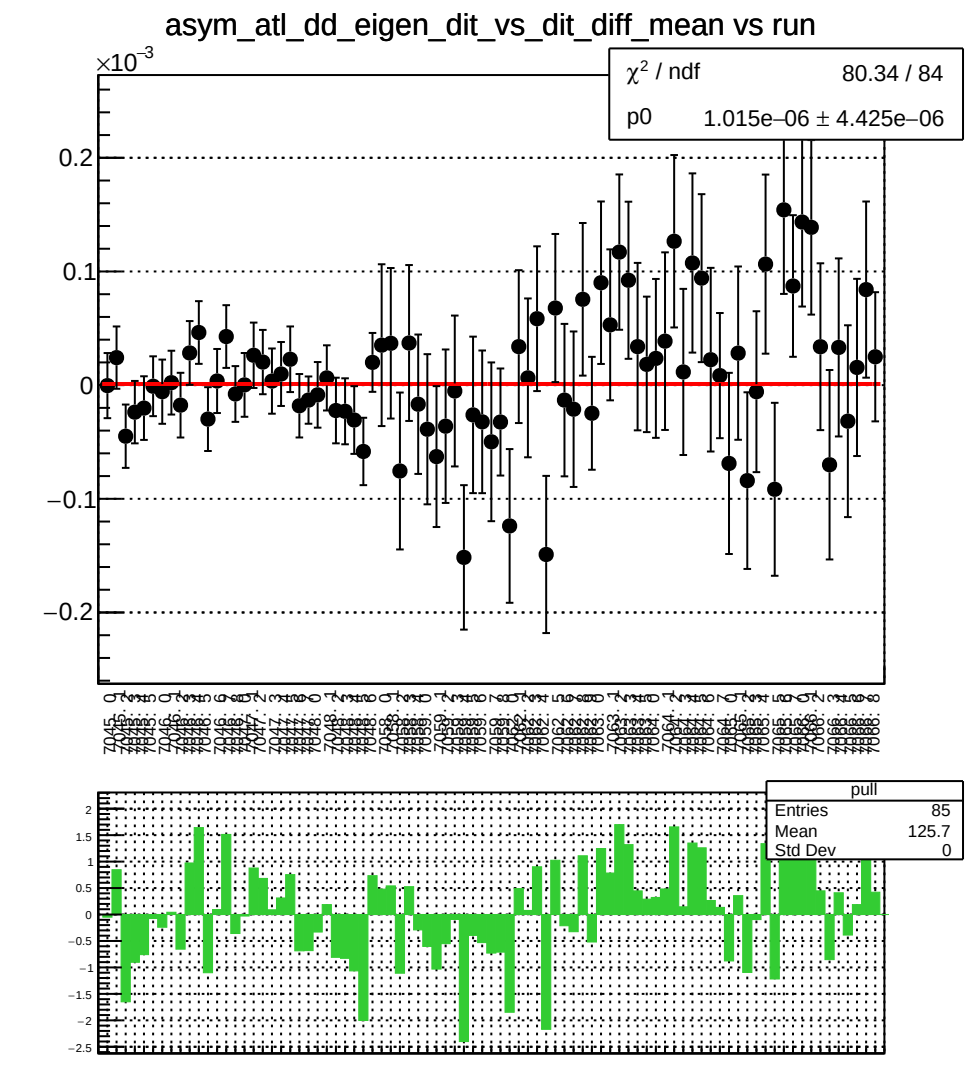

pull1D
Entries 85
Mean 0.04685
Std Dev 0.9754

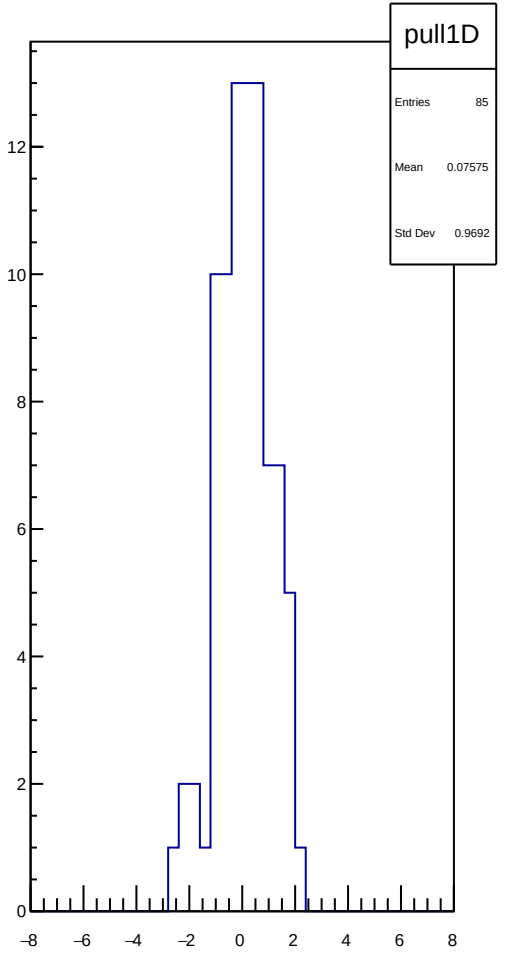

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.331e+04 / 84
p0 364.8 ± 0.2872
600
550
500
450
400
350
300

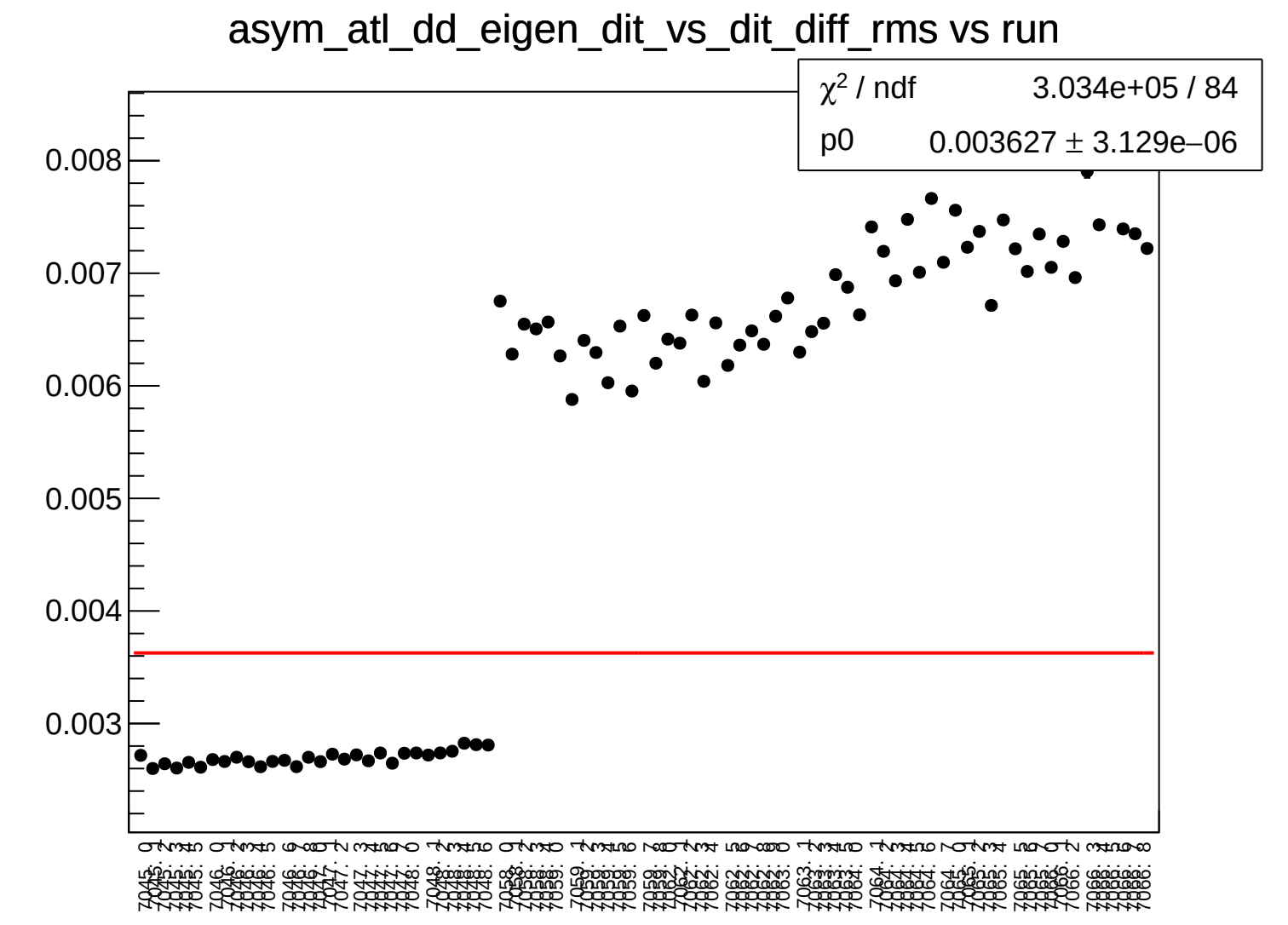

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.05 / 84
p0 0.6026 ± 0.4061
pull
Entries 85
Mean 168.9
Std Dev 0

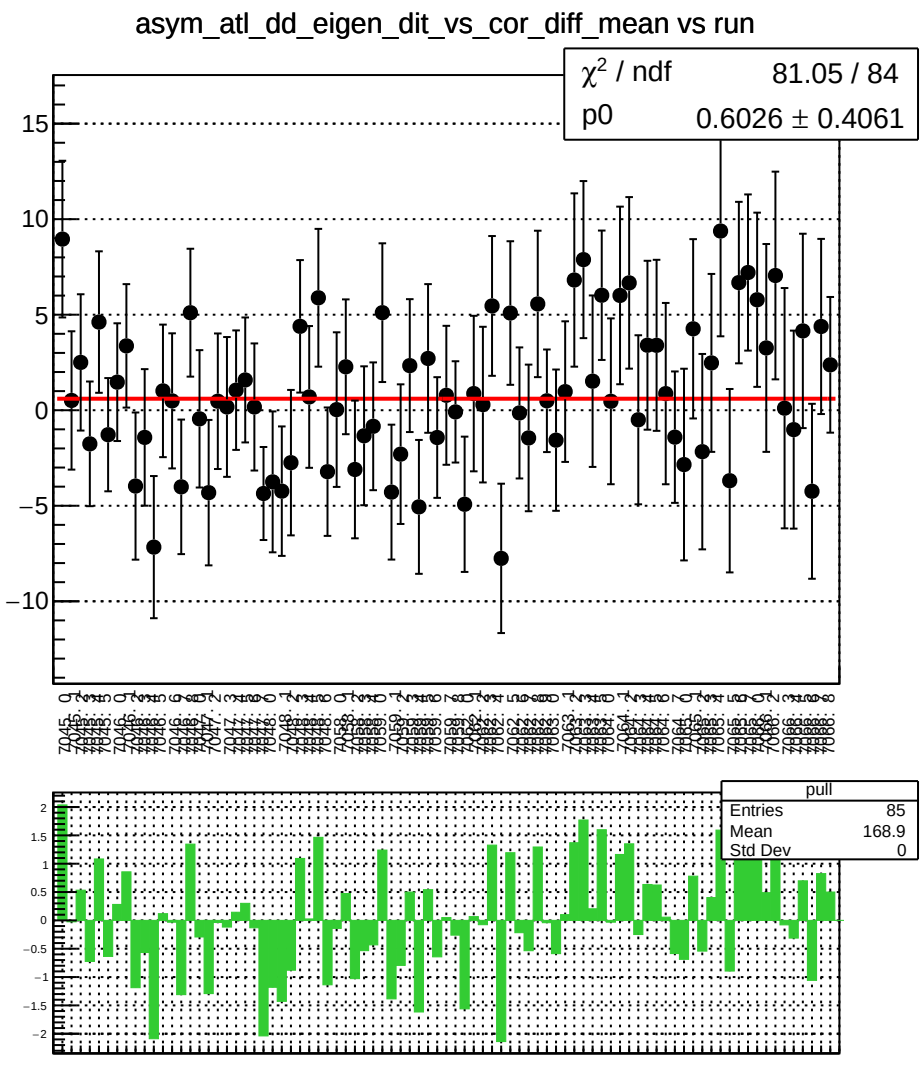

pull1D
Entries 85
Mean 0.04685
Std Dev 0.9754

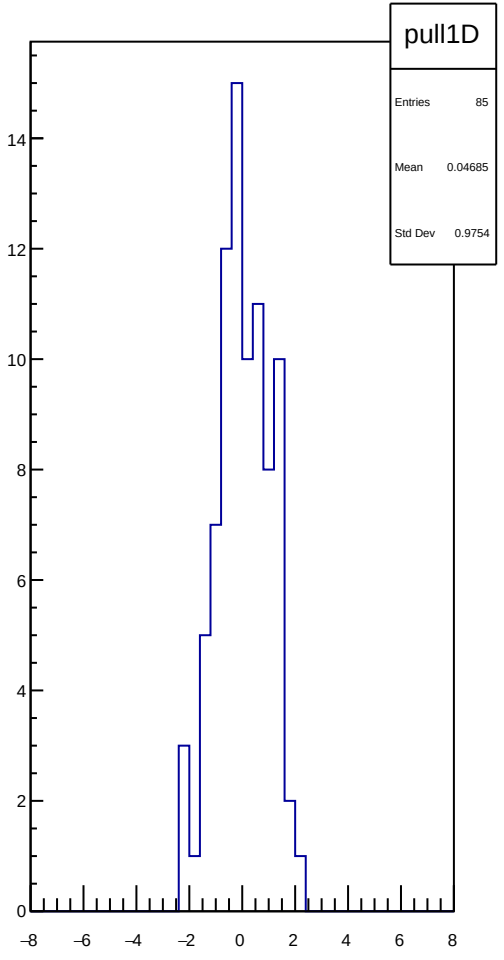

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.331e+04 / 84
p0 364.8 ± 0.2872
600
550
500
450
400
350
300

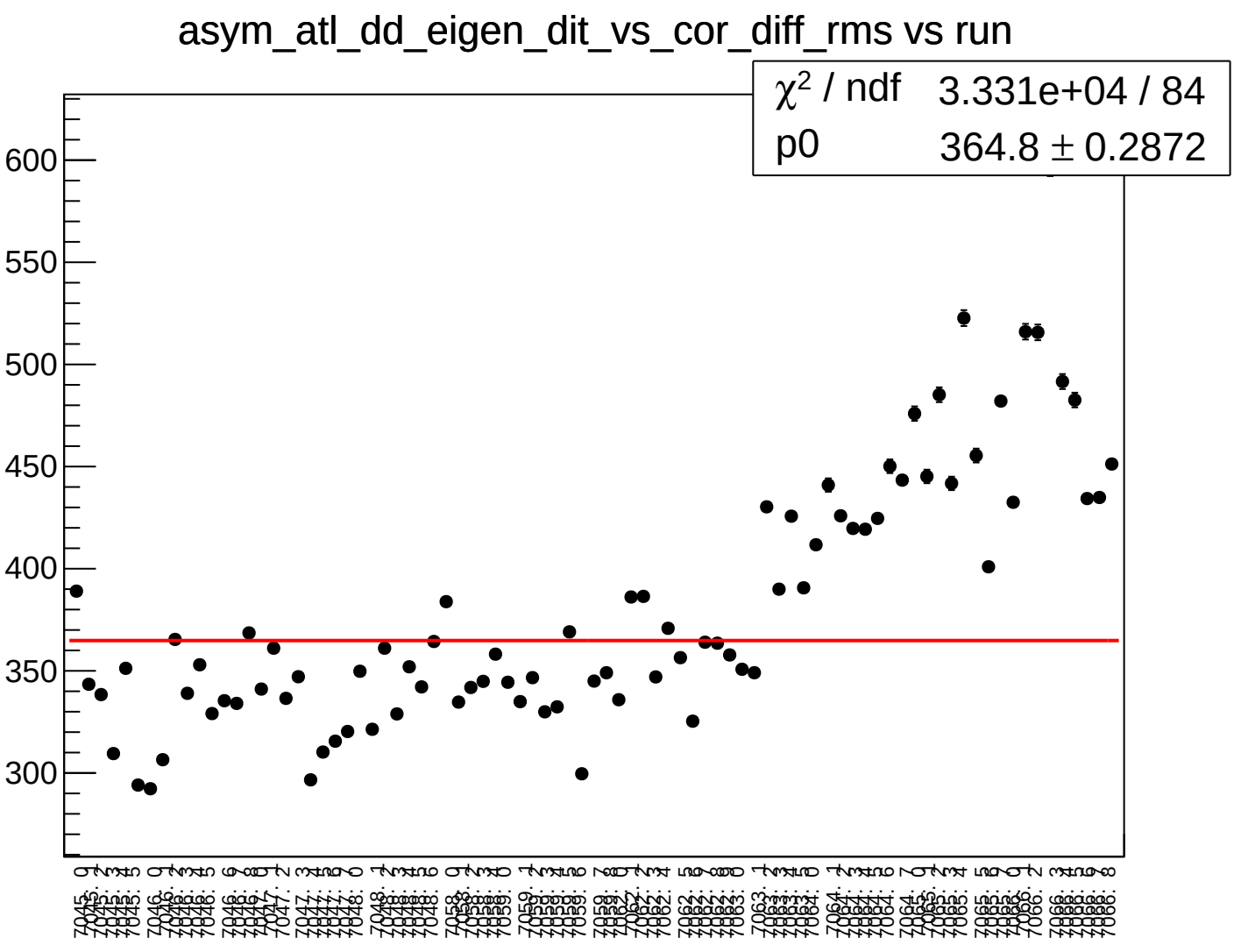

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.34 / 84
p0 1.015e−06 ± 4.425e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean 125.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

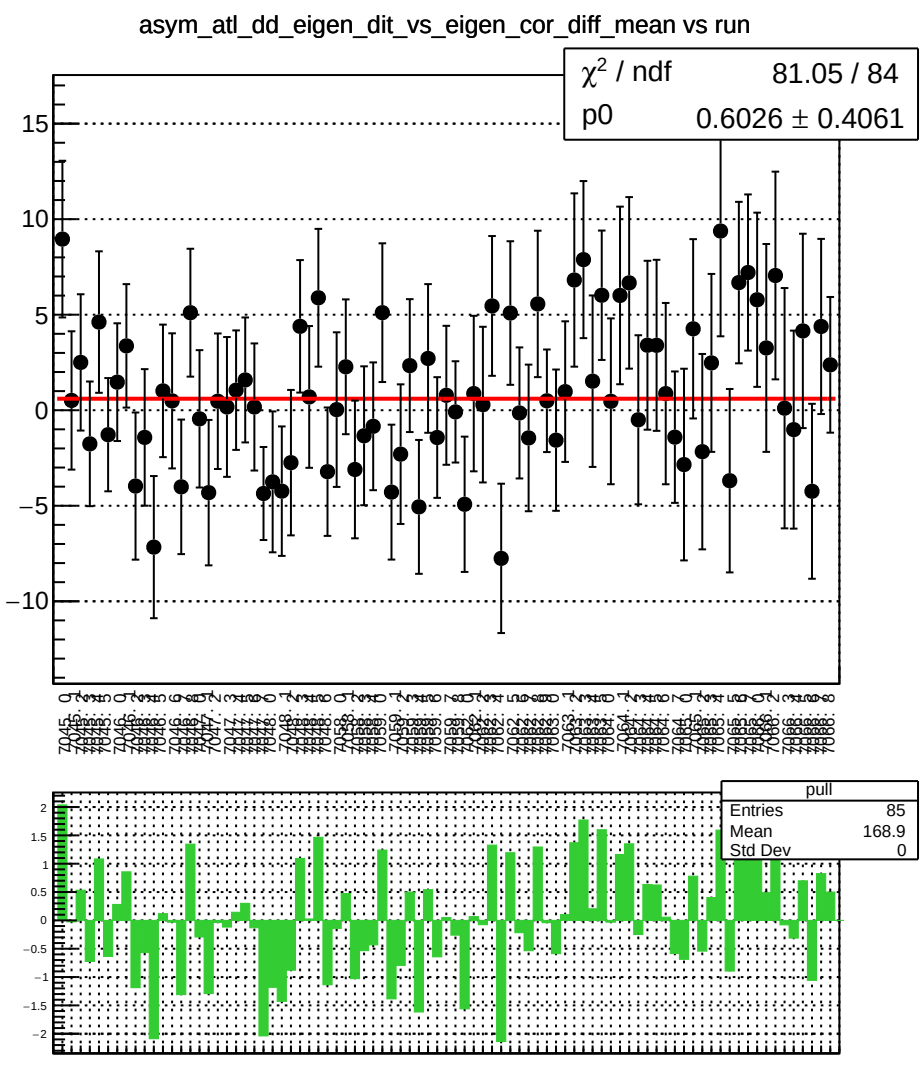

pull1D
Entries 85
Mean 0.07575
Std Dev 0.9692
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

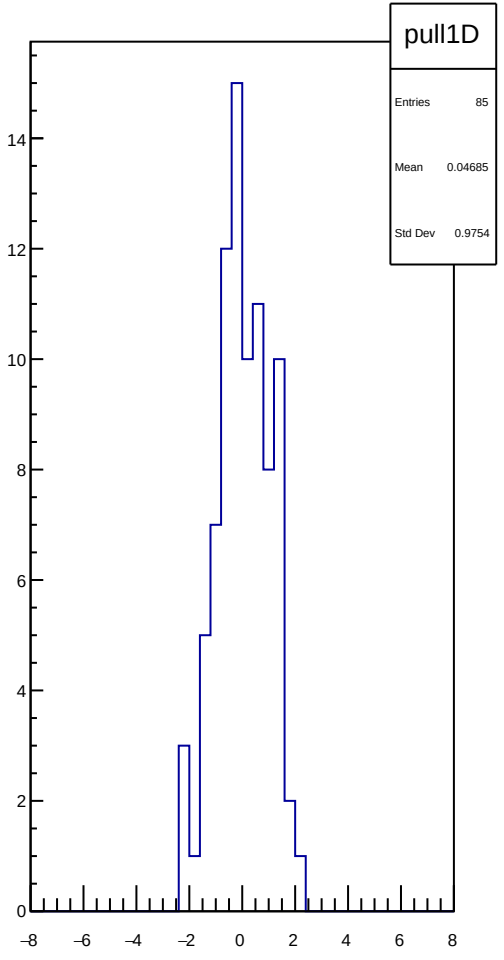

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.034e+05 / 84
p0 0.003627 ± 3.129e−06
0.008
0.007
0.006
0.005
0.004
0.003

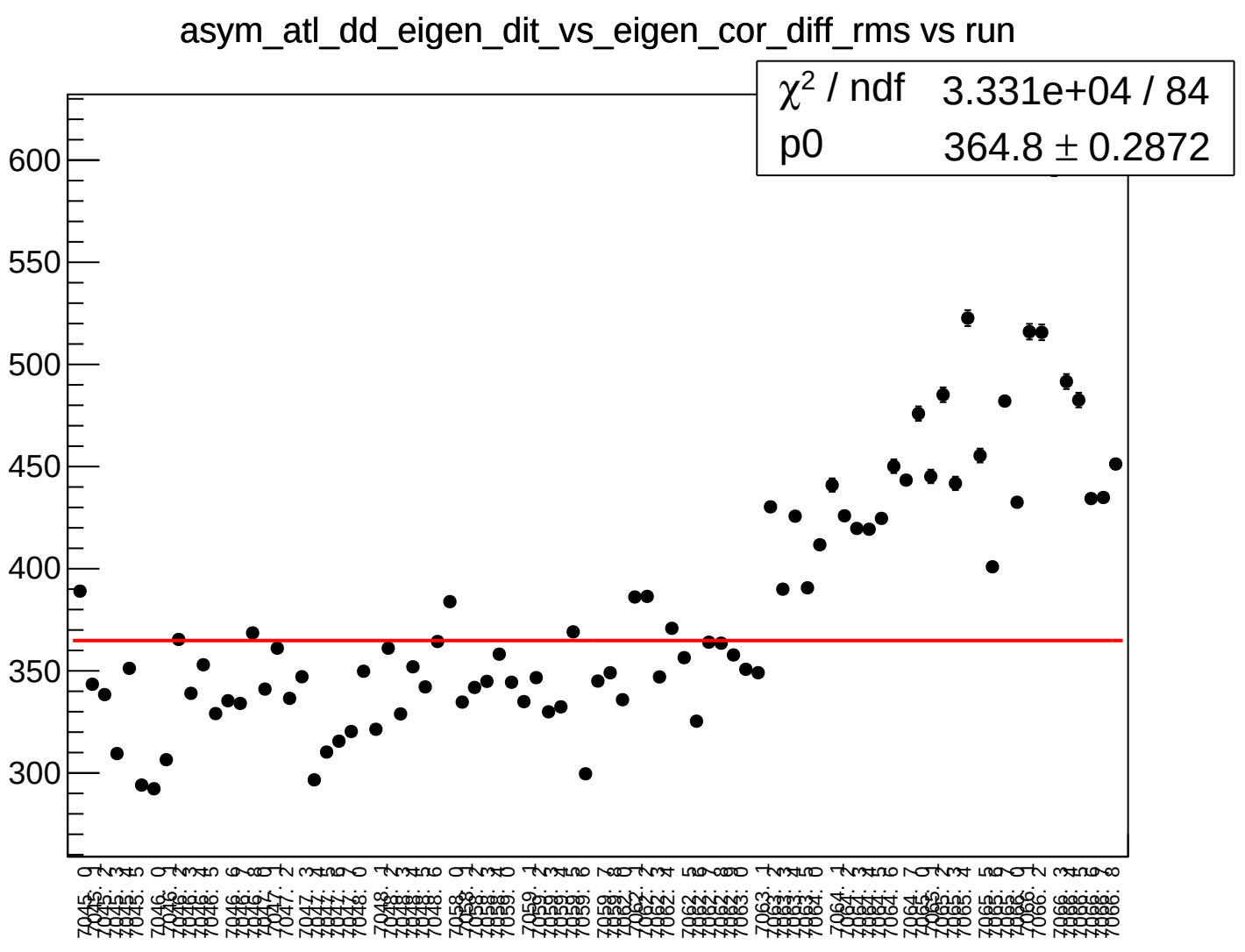

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.05 / 84
p0 0.6026 ± 0.4061
pull
Entries 85
Mean 168.9
Std Dev 0

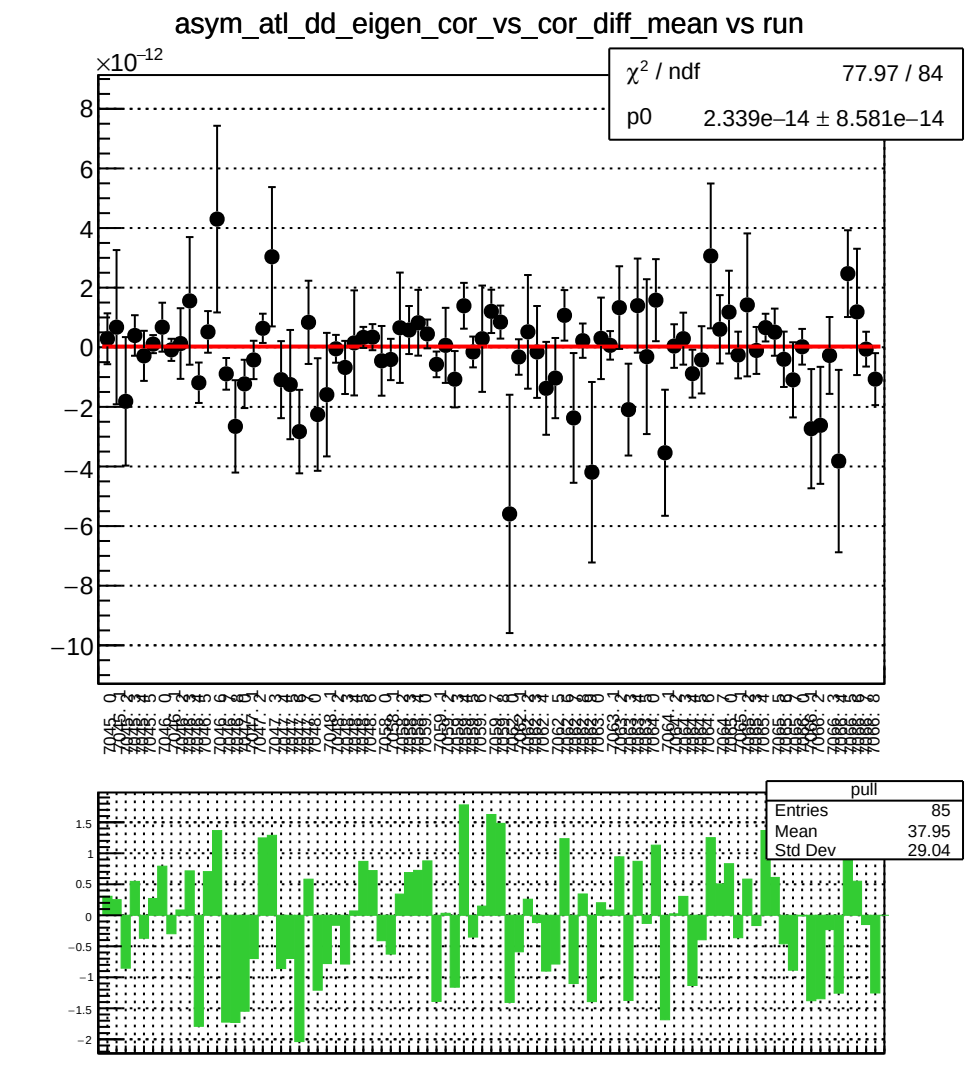

pull1D
Entries 85
Mean 0.04685
Std Dev 0.9754

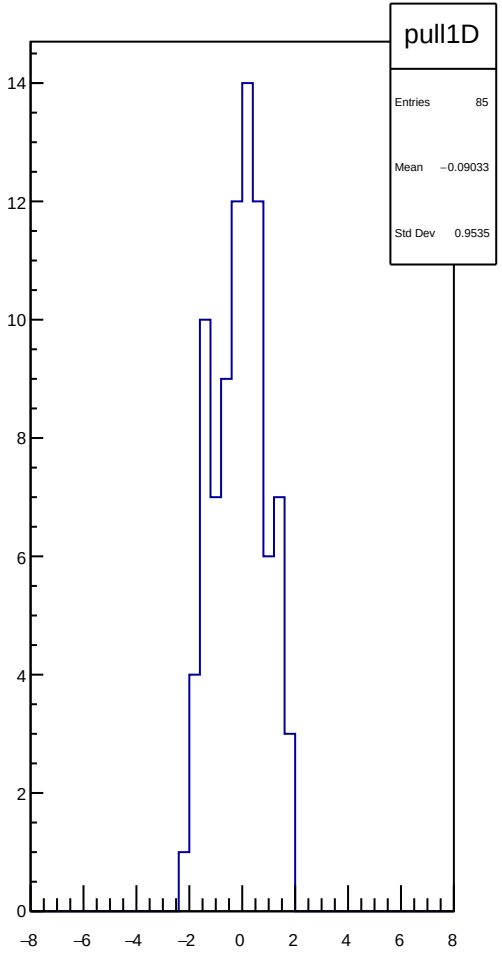

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.331e+04 / 84
p0 364.8 ± 0.2872
600
550
500
450
400
350
300

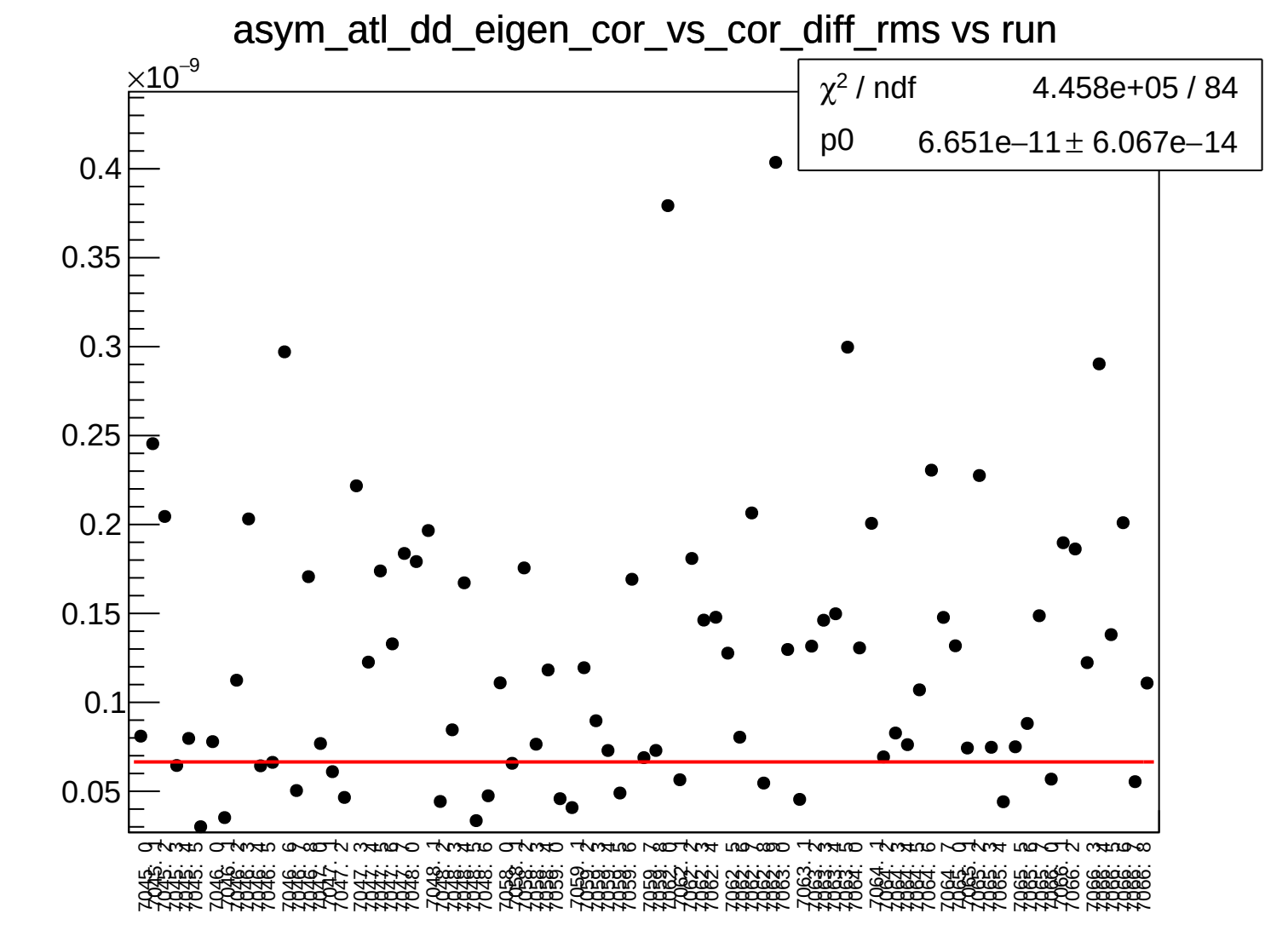

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.05 / 84
p0 0.6026 ± 0.4061
pull
Entries 85
Mean 168.9
Std Dev 0

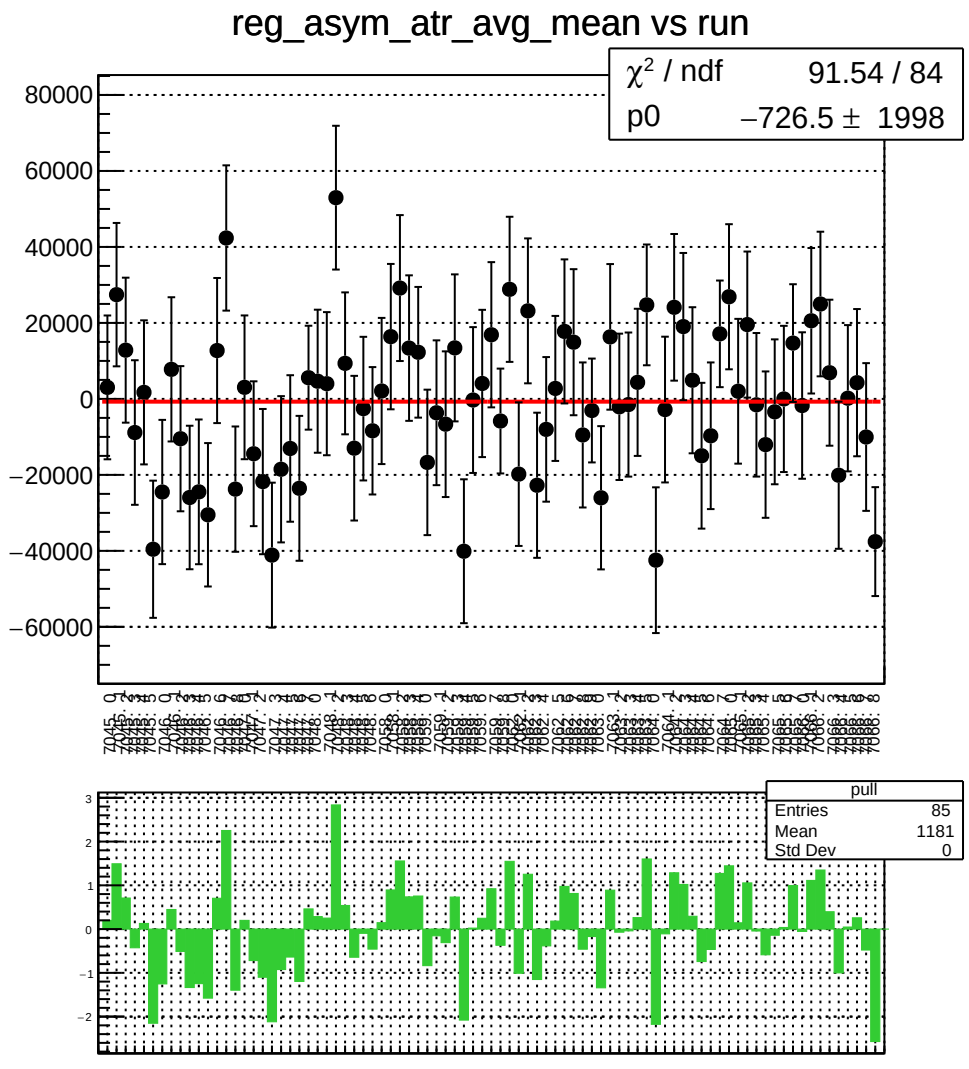

pull1D
Entries 85
Mean 0.04685
Std Dev 0.9754

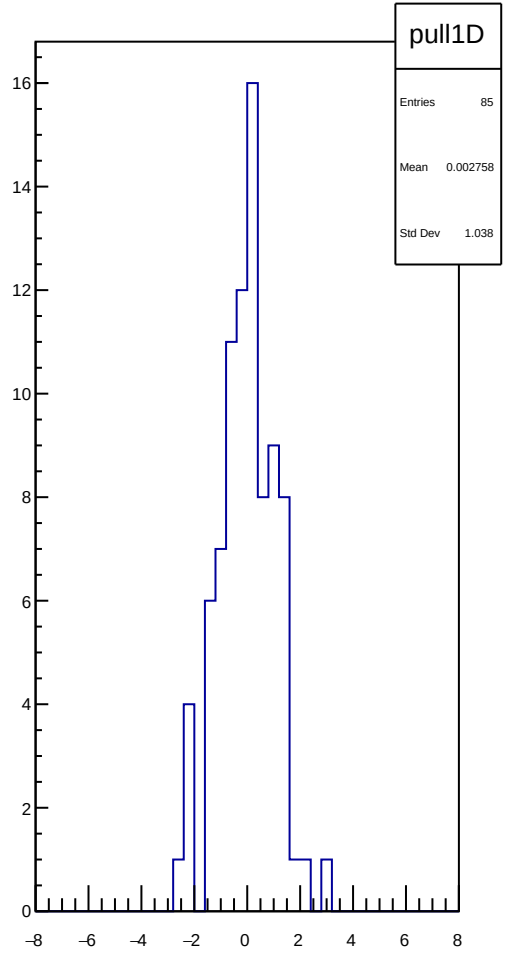

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.331e+04 / 84
p0 364.8 ± 0.2872
600
550
500
450
400
350
300

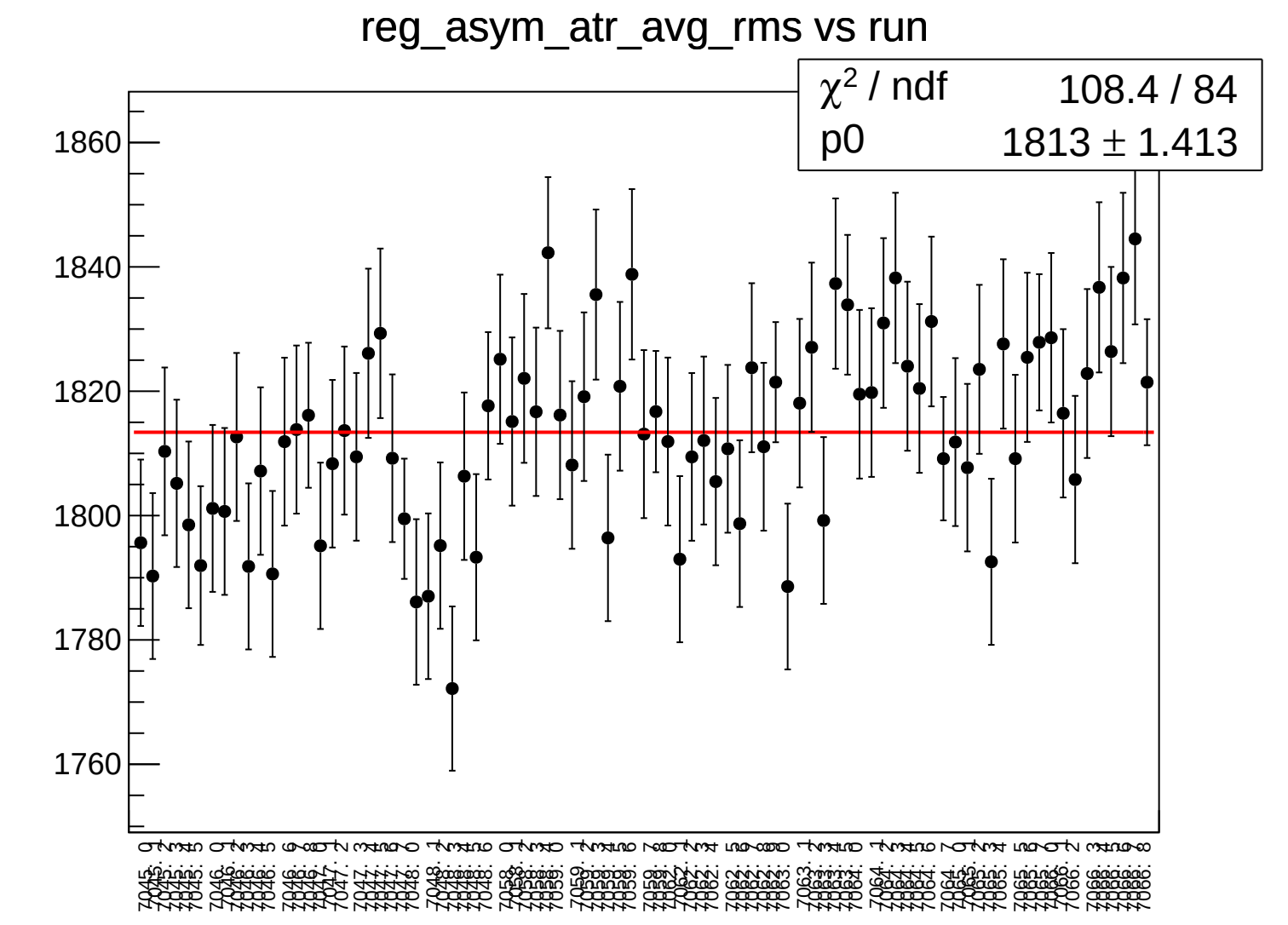

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.97 / 84
p0 2.339e−14 ± 8.581e−14
pull
Entries 85
Mean 37.95
Std Dev 29.04

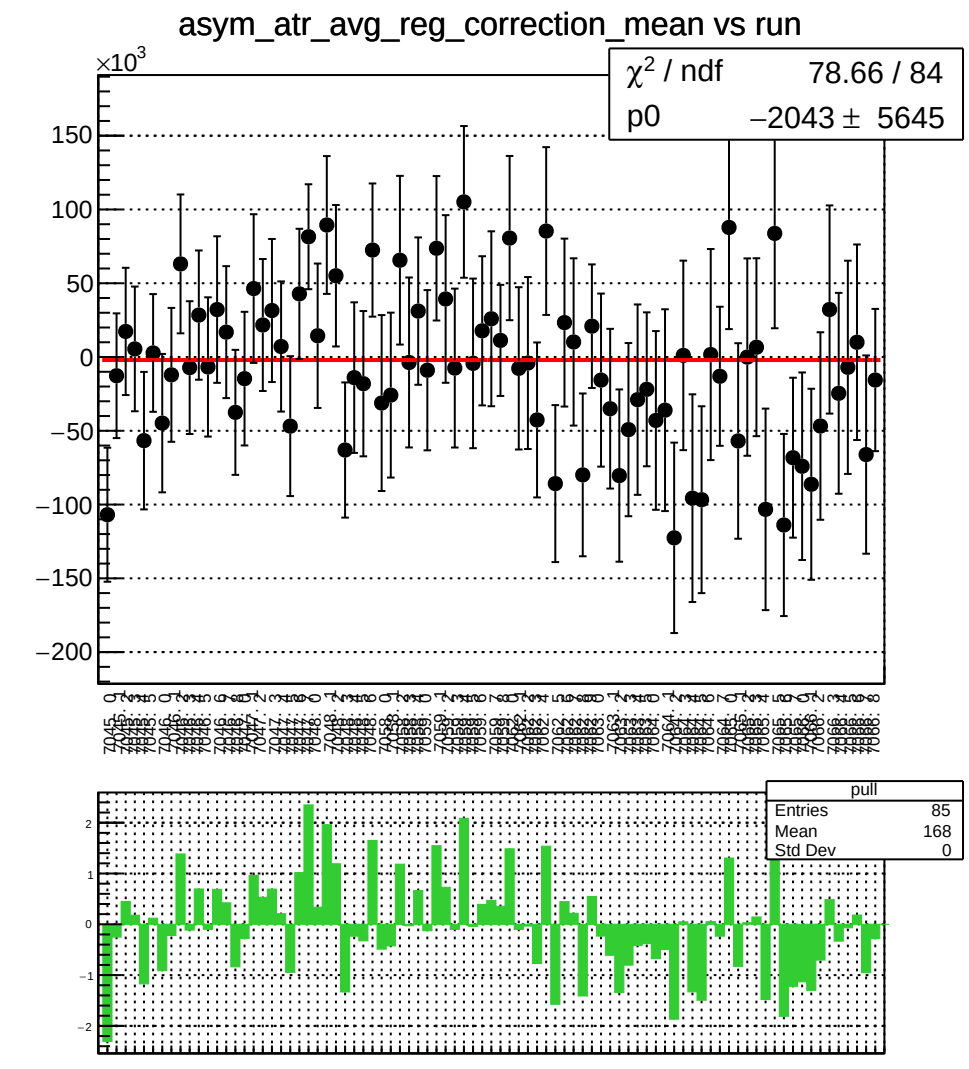

pull1D
Entries 85
Mean −0.09033
Std Dev 0.9535

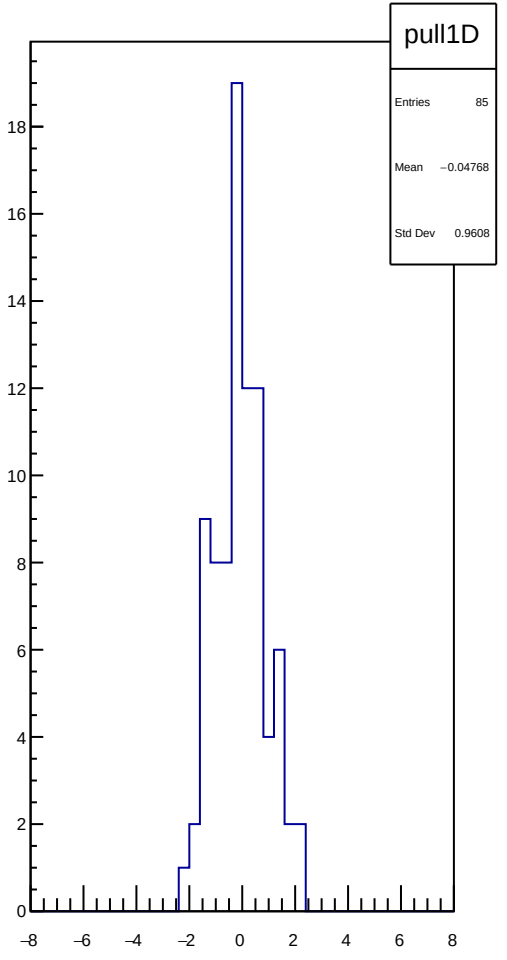

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.458e+05 / 84
p0 6.651e−11 ± 6.067e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

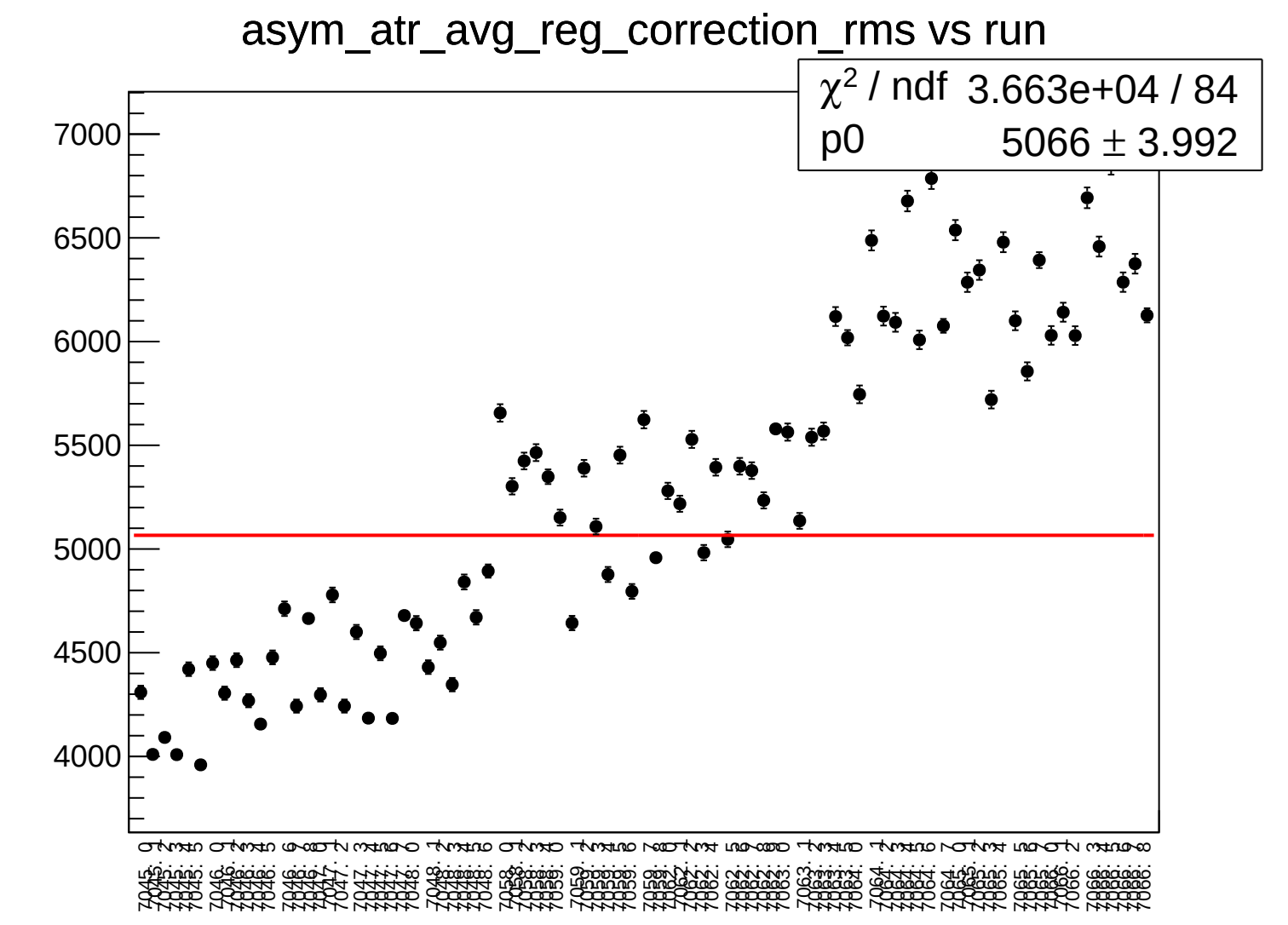

reg_asym_atr_avg_mean vs run
χ² / ndf 91.54 / 84
p0 −726.5 ± 1998
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 1181
Std Dev 0
3
2
1
0
−1
−2

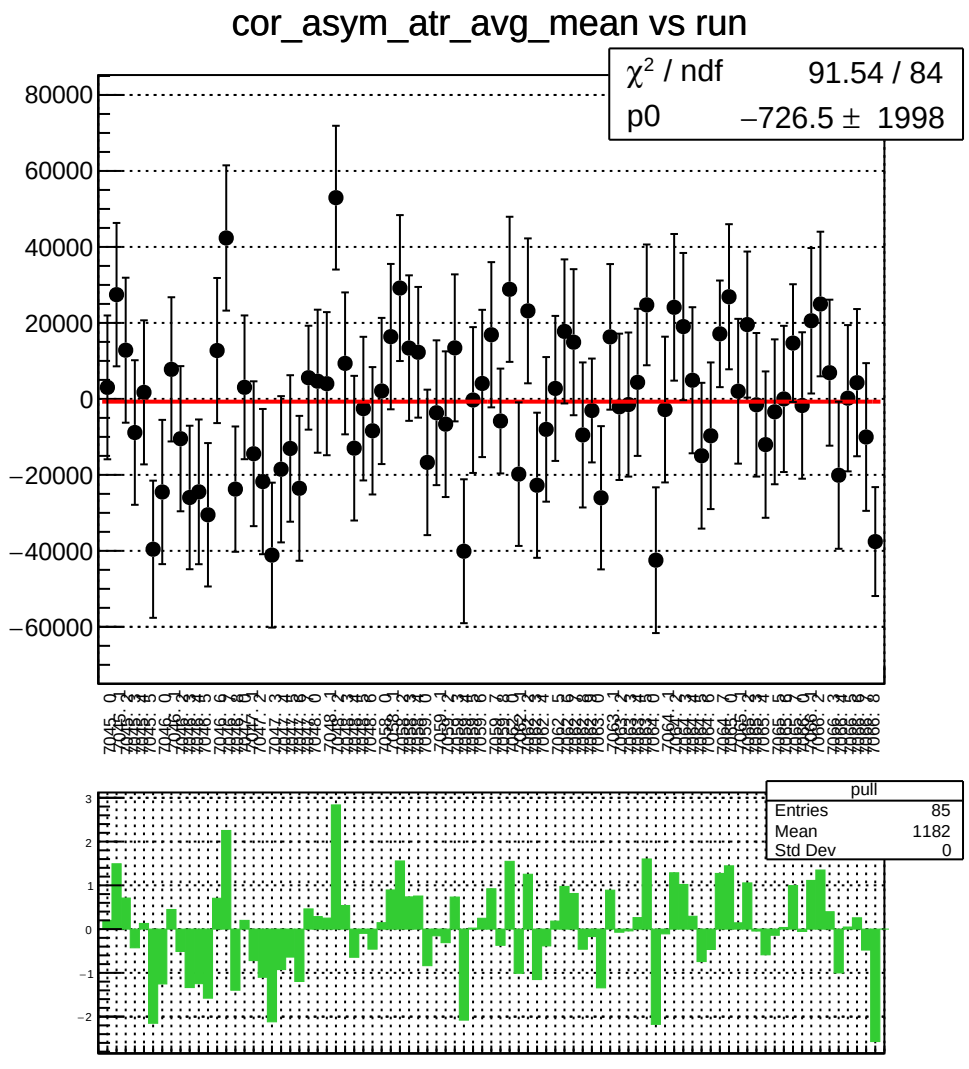

pull1D
Entries 85
Mean 0.002758
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

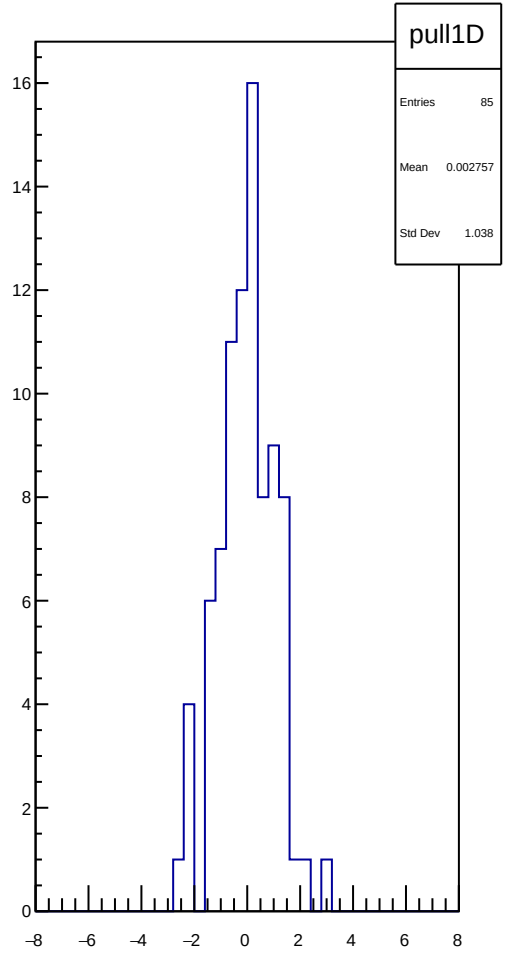

reg_asym_atr_avg_rms vs run
χ² / ndf 108.4 / 84
p0 1813 ± 1.413
1860
1840
1820
1800
1780
1760

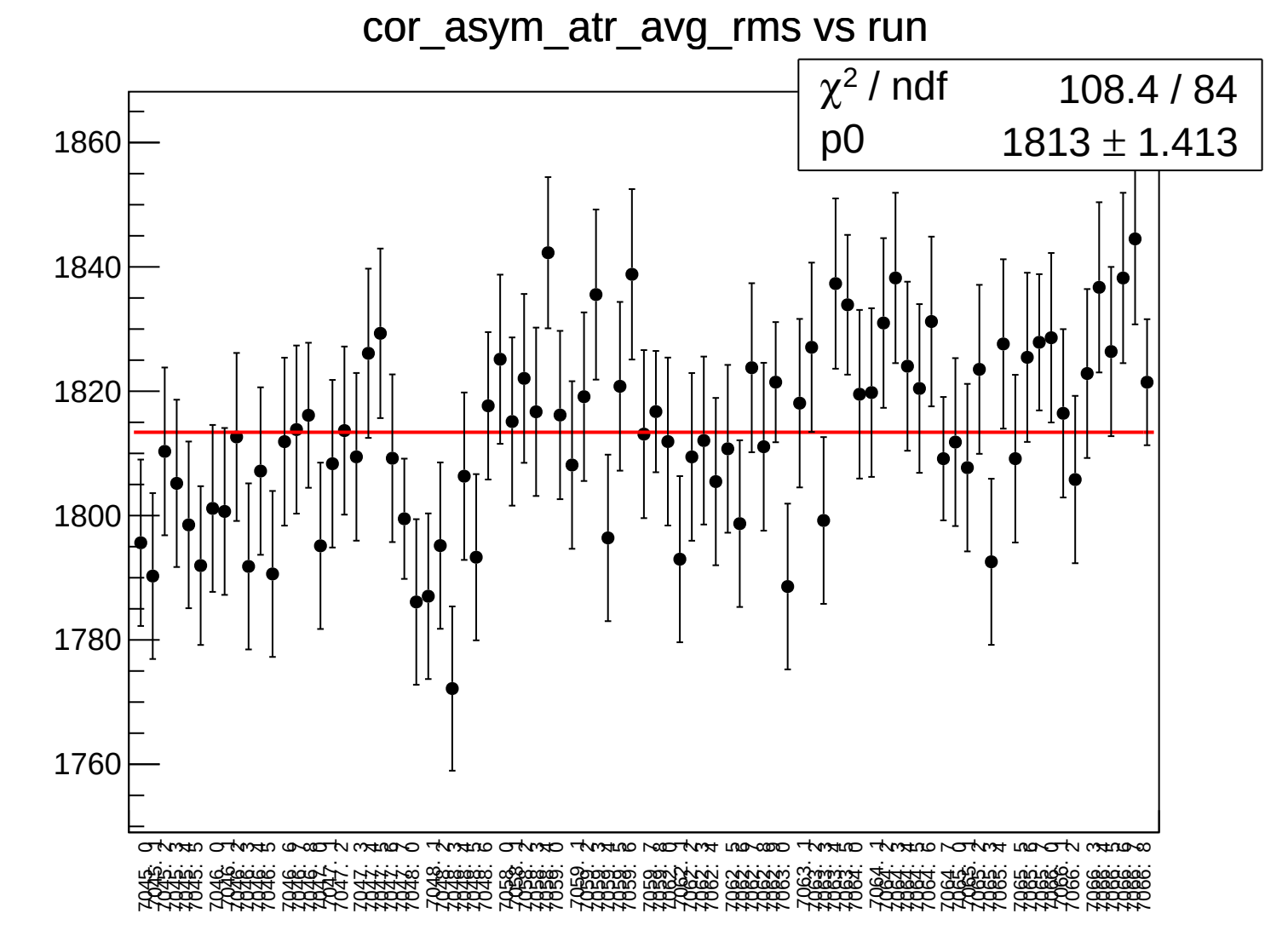

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.66 / 84
p0 −2043 ± 5645
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 168
Std Dev 0
2
1
0
−1
−2

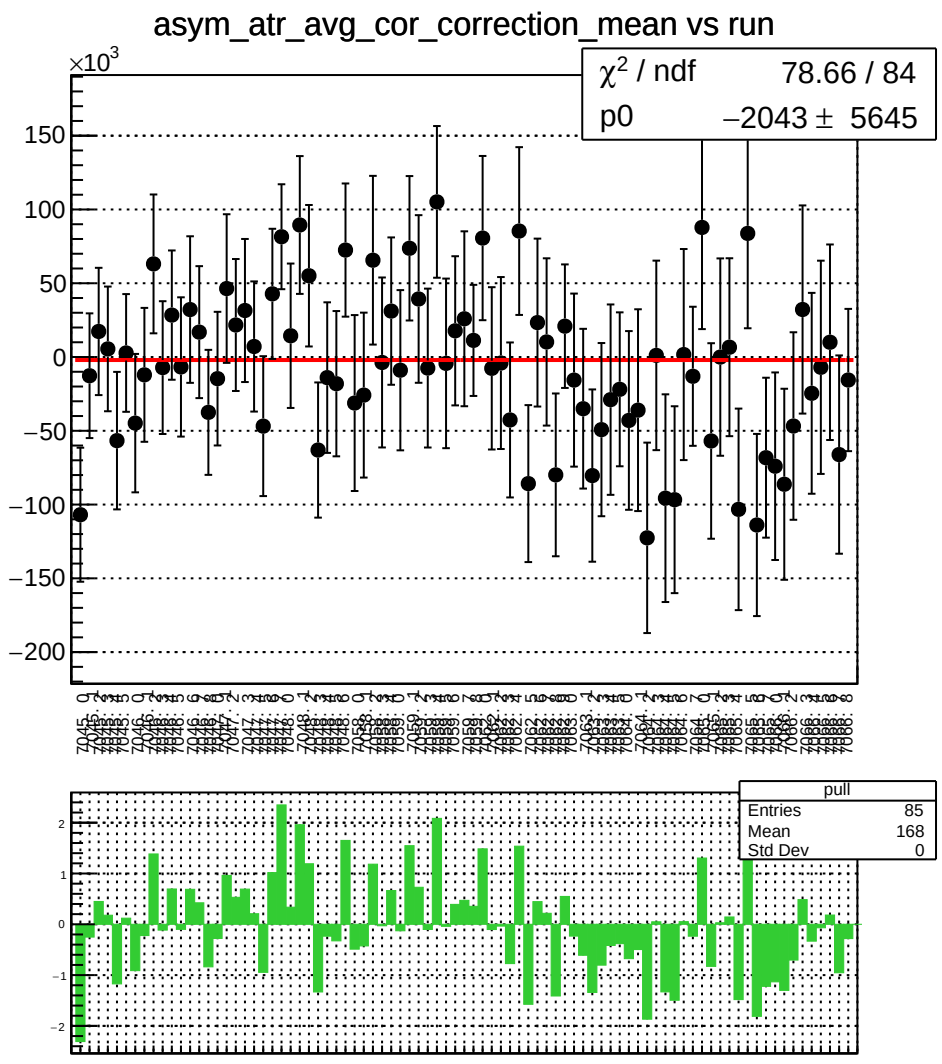

pull1D
Entries 85
Mean −0.04768
Std Dev 0.9608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

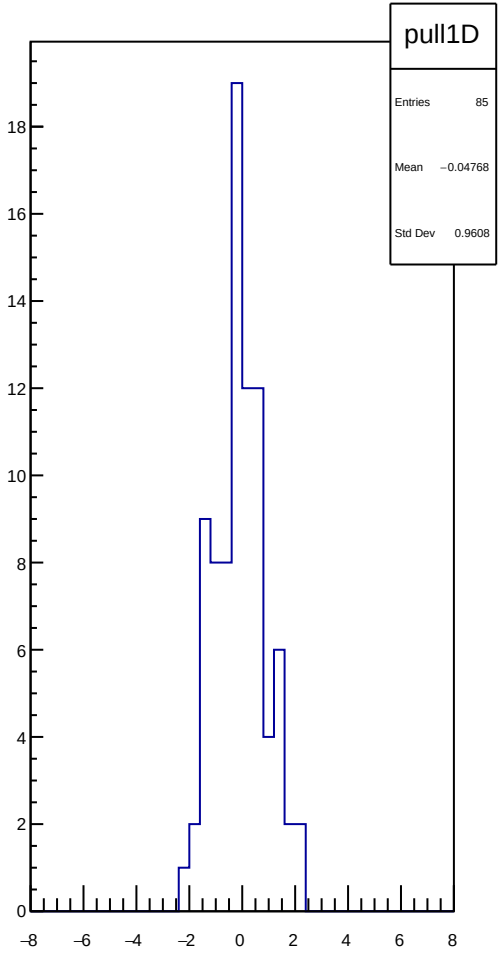

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3.663e+04 / 84
p0 5066 ± 3.992
7000
6500
6000
5500
5000
4500
4000

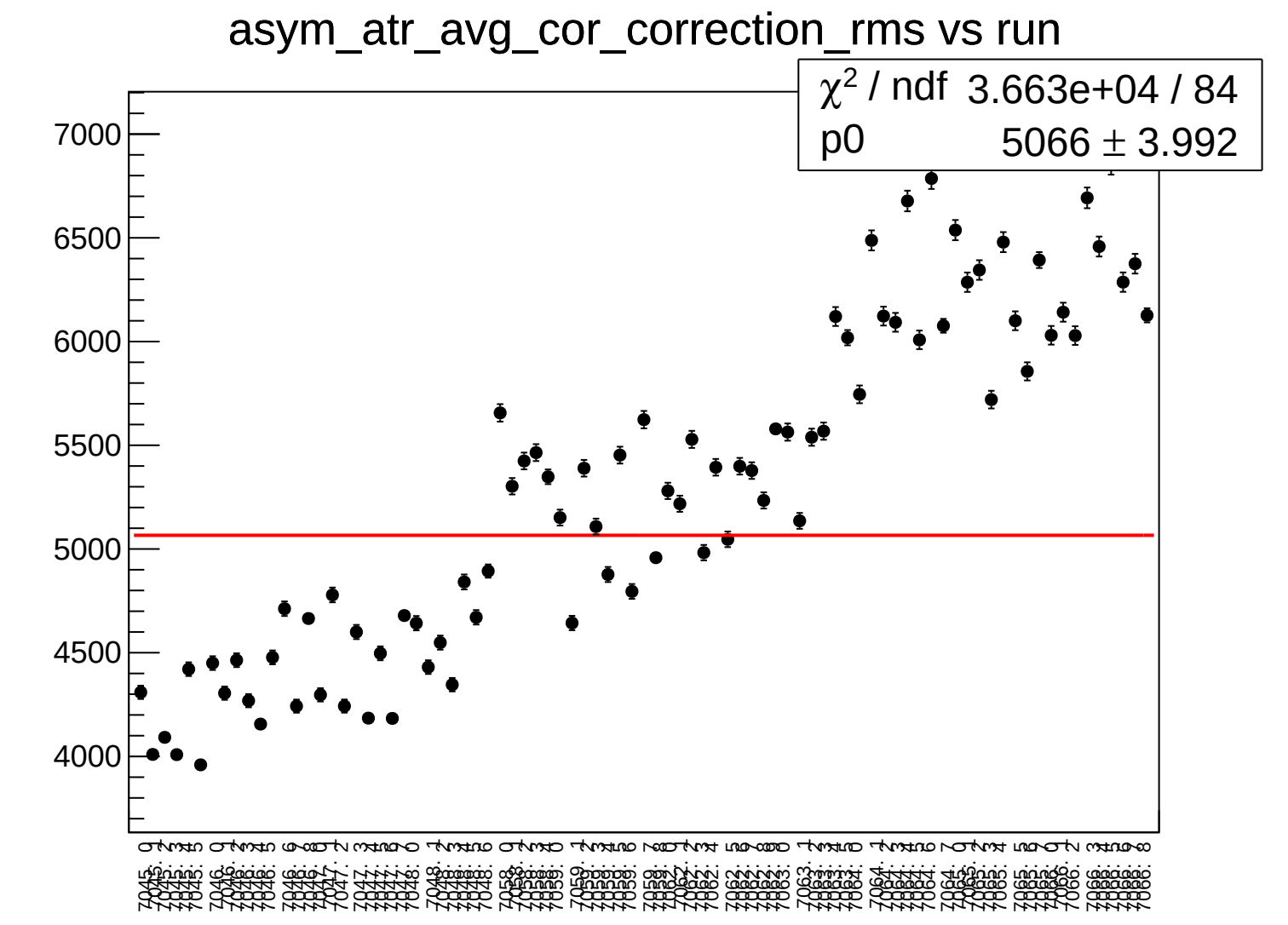

cor_asym_atr_avg_mean vs run
χ² / ndf 91.54 / 84
p0 −726.5 ± 1998
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 1182
Std Dev 0
3
2
1
0
−1
−2

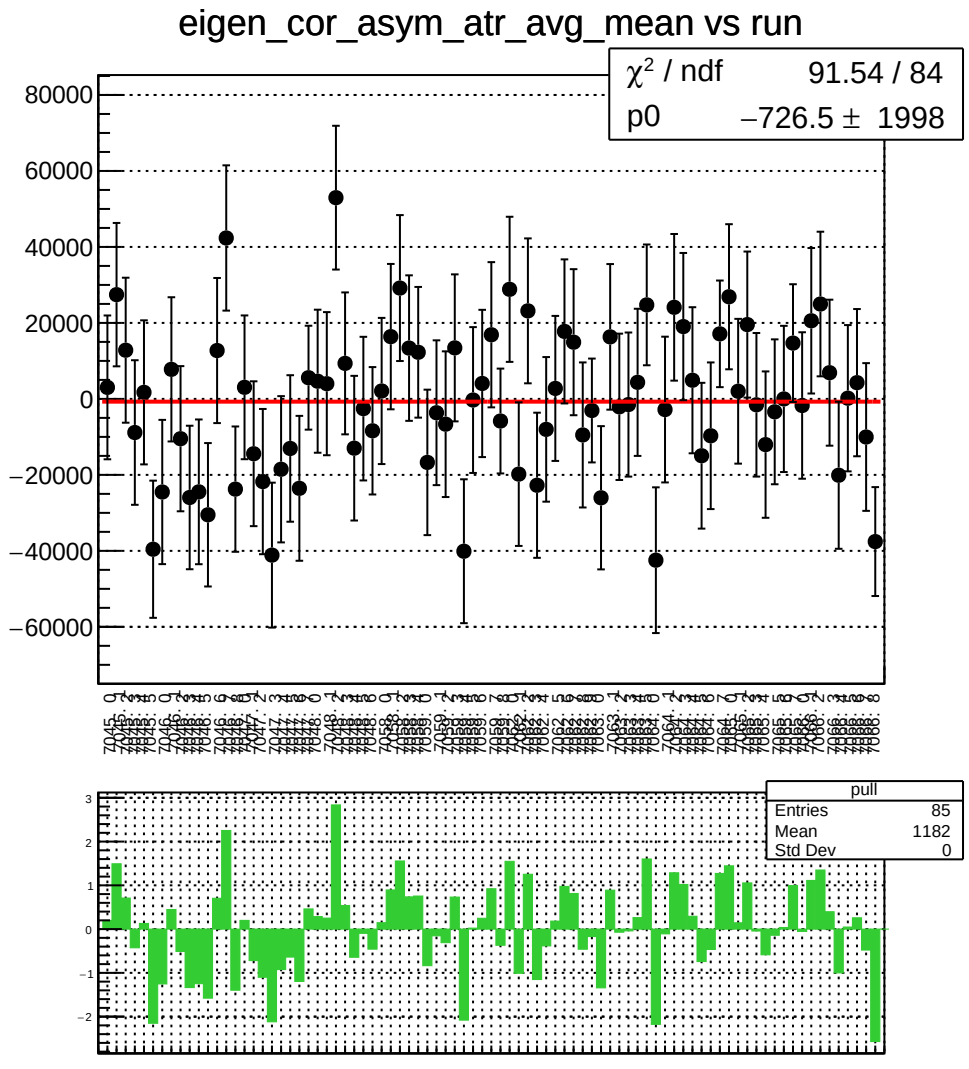

pull1D
Entries 85
Mean 0.002757
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

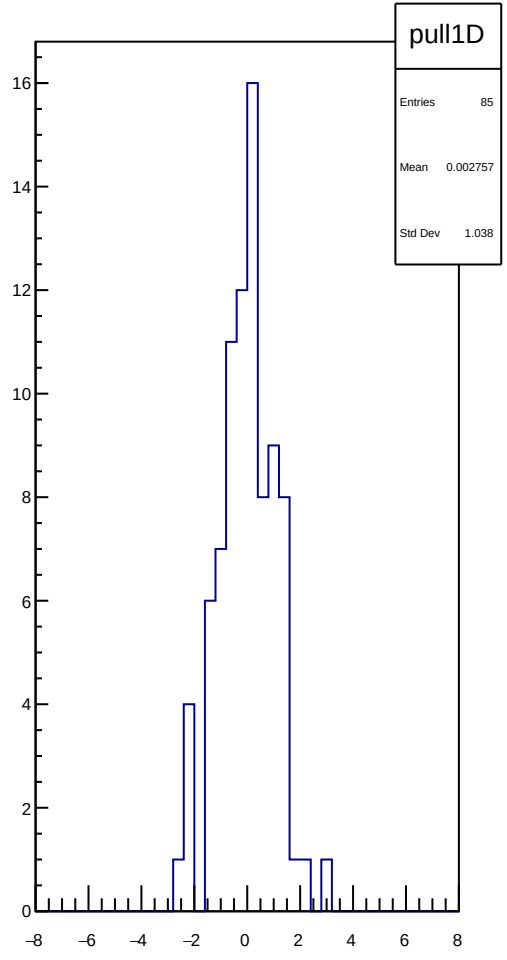

cor_asym_atr_avg_rms vs run
χ² / ndf 108.4 / 84
p0 1813 ± 1.413
1860
1840
1820
1800
1780
1760


asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.66 / 84
p0 −2043 ± 5645
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 168
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean −0.04768
Std Dev 0.9608
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
χ² / ndf 3.663e+04 / 84
p0 5066 ± 3.992
7000
6500
6000
5500
5000
4500
4000


eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 91.54 / 84
p0 −726.5 ± 1998
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 1182
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.002757
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
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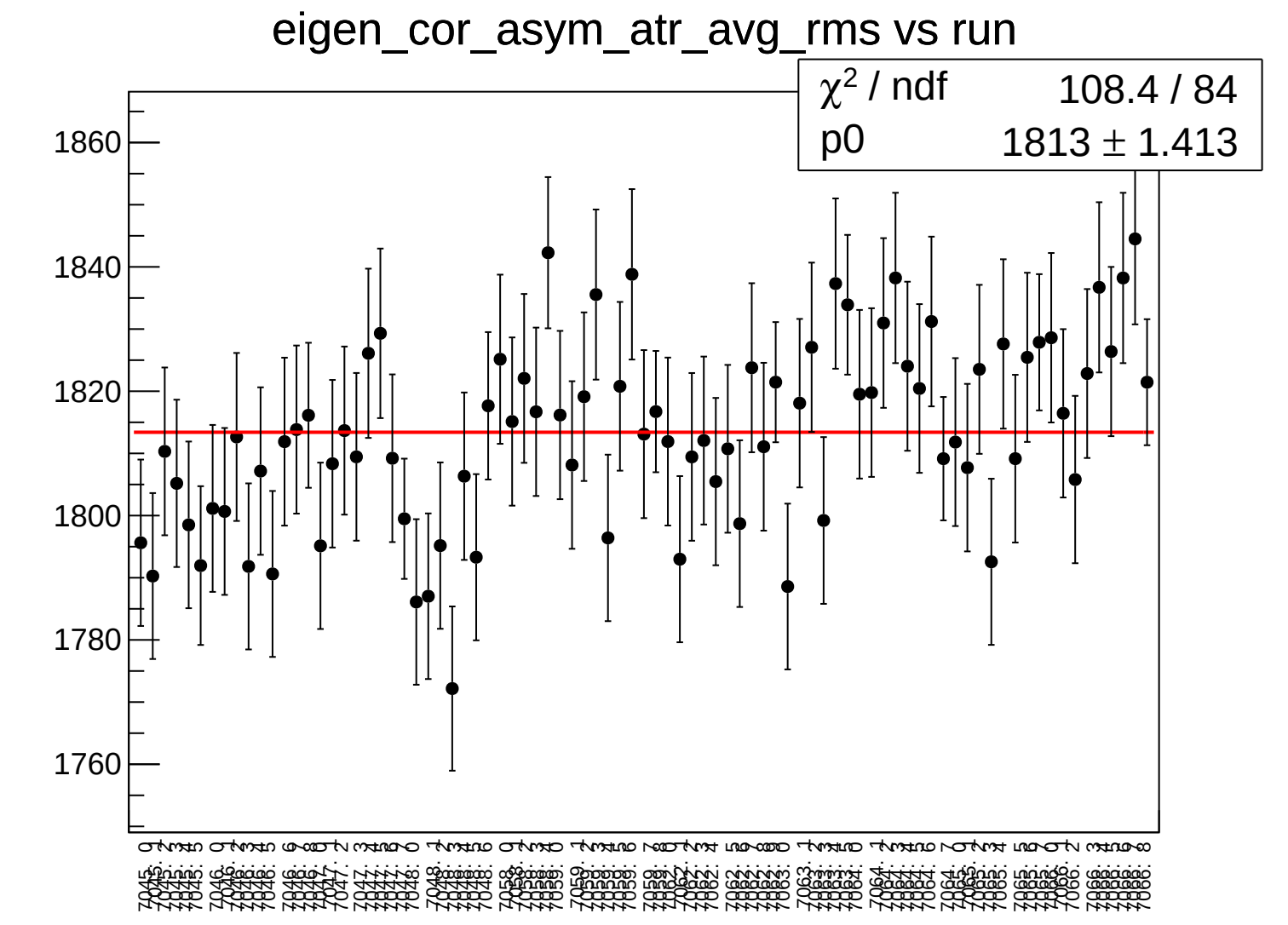
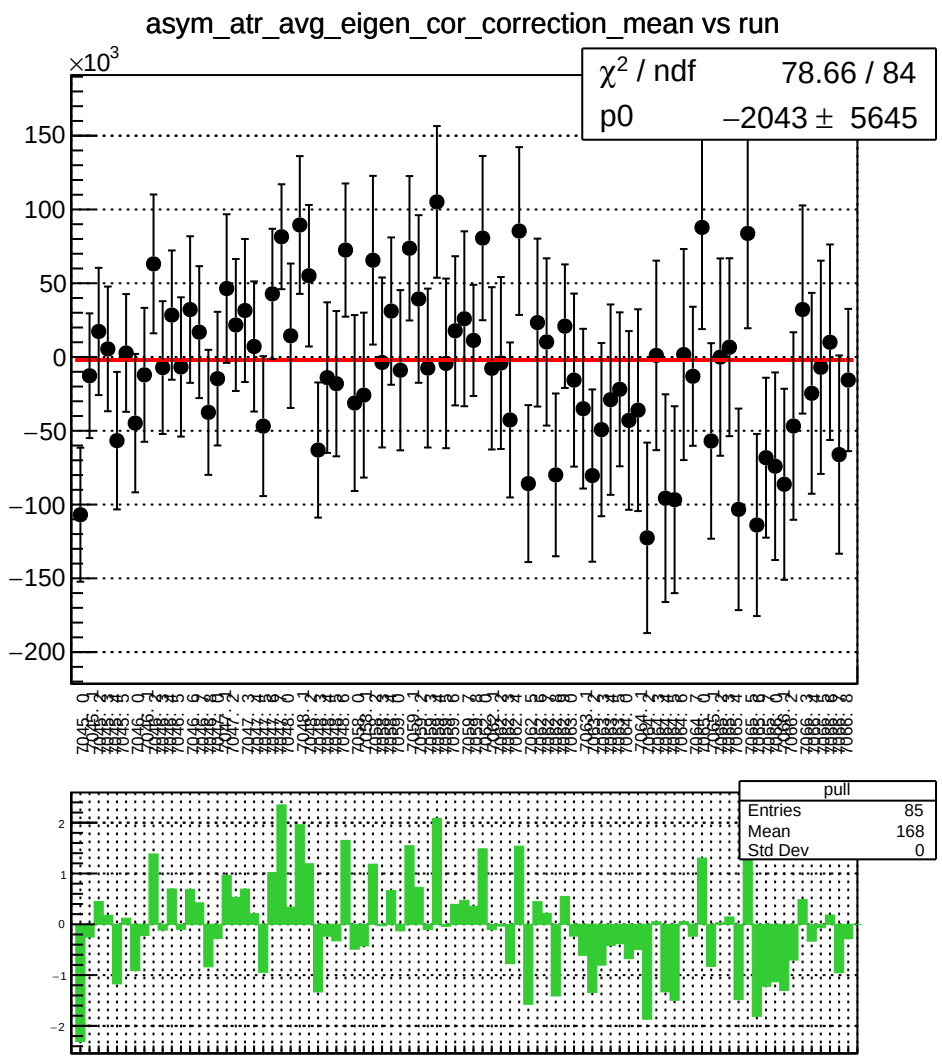
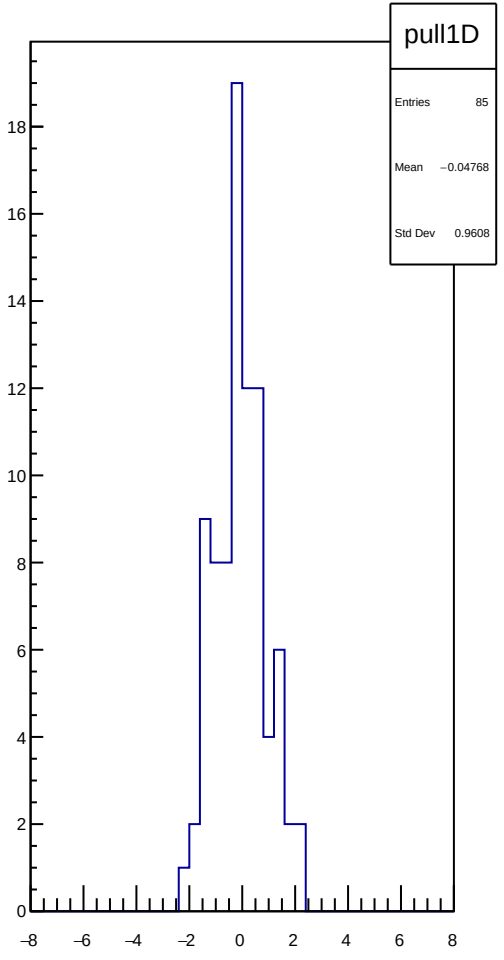
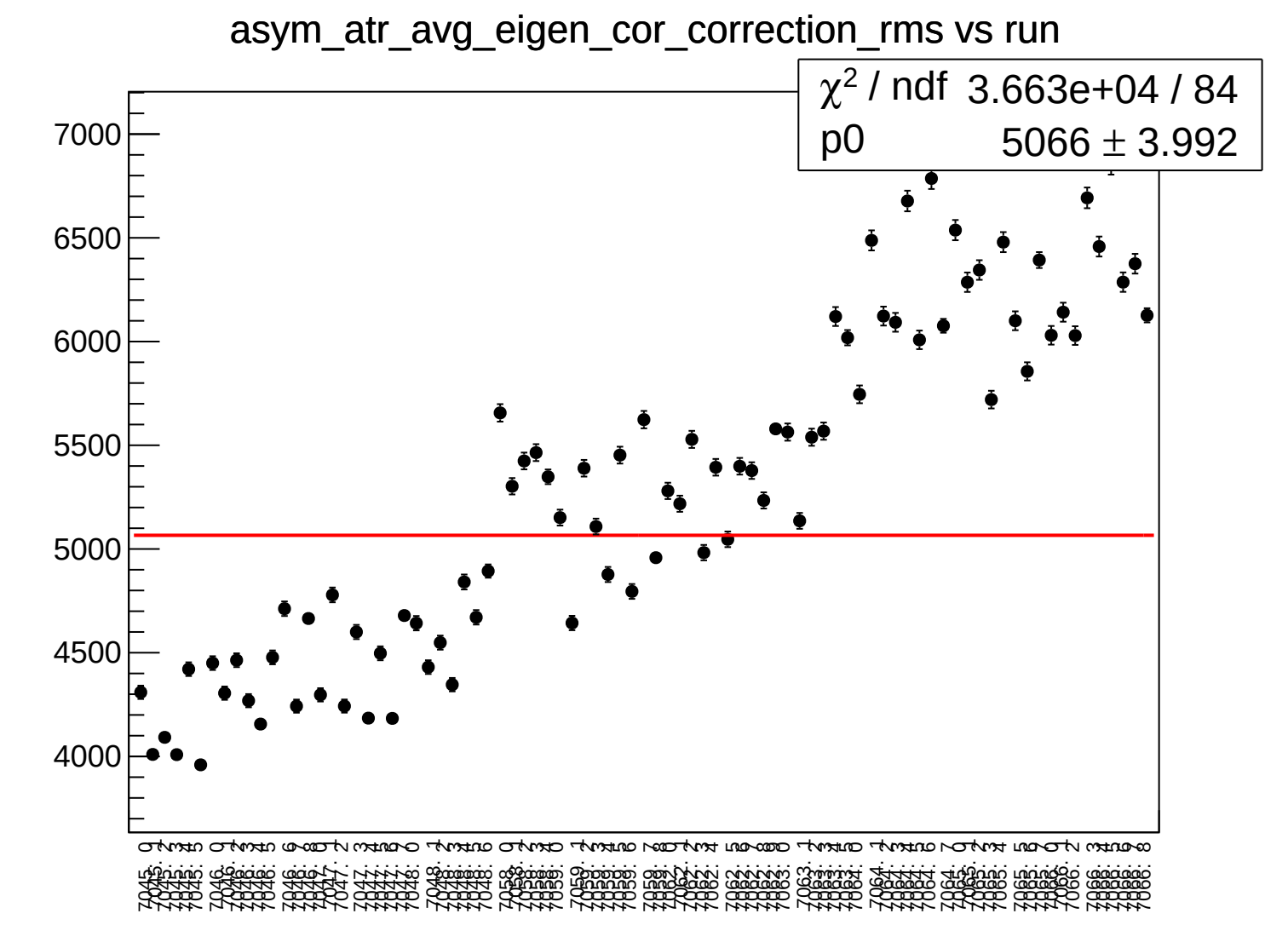
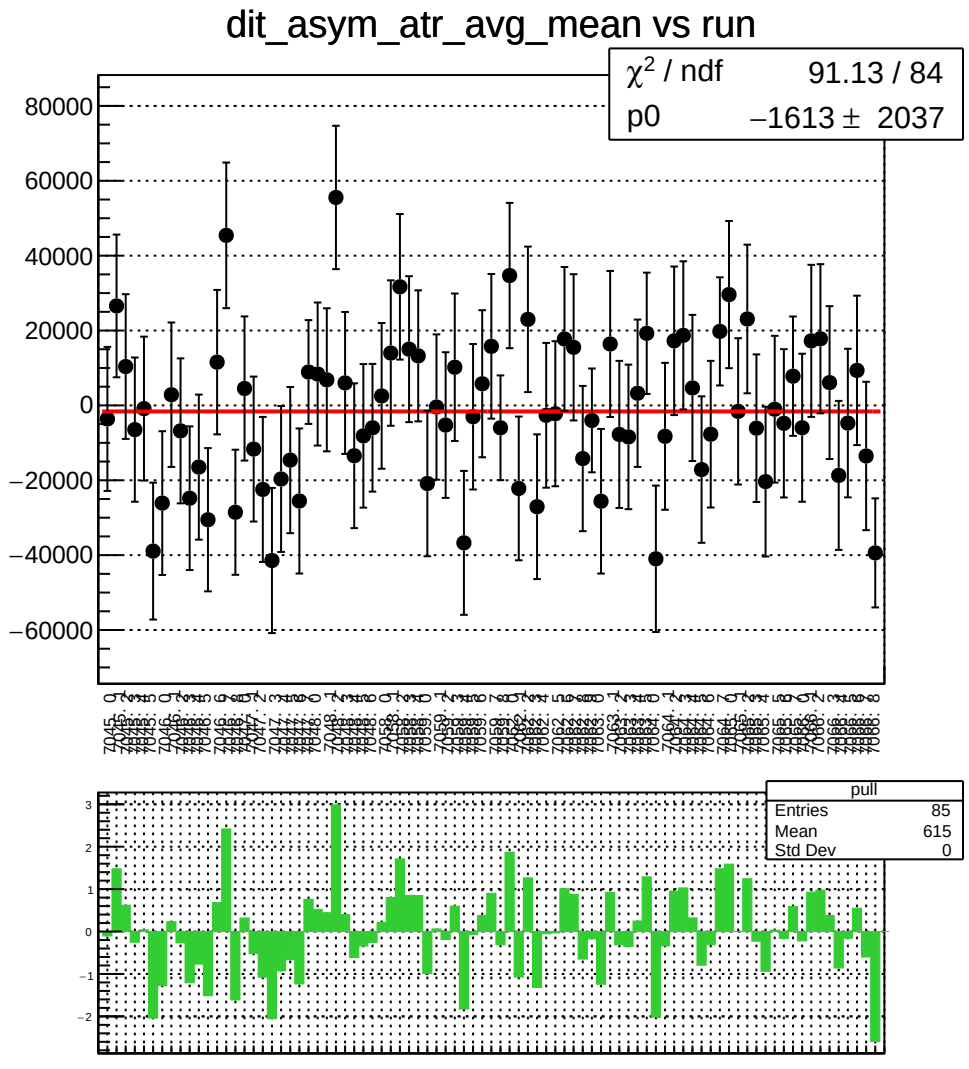
0
2
4
6
8

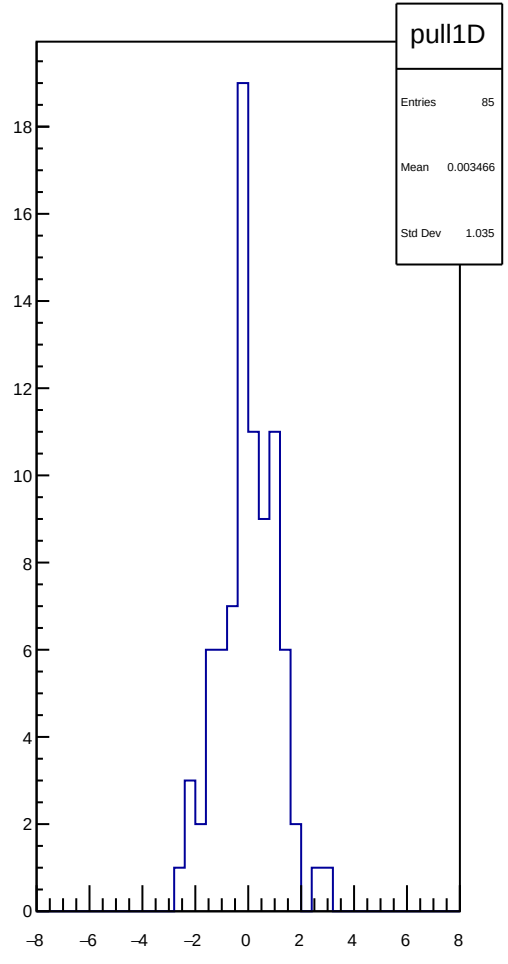

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 108.4 / 84
p0 1813 ± 1.413
1860
1840
1820
1800
1780
1760

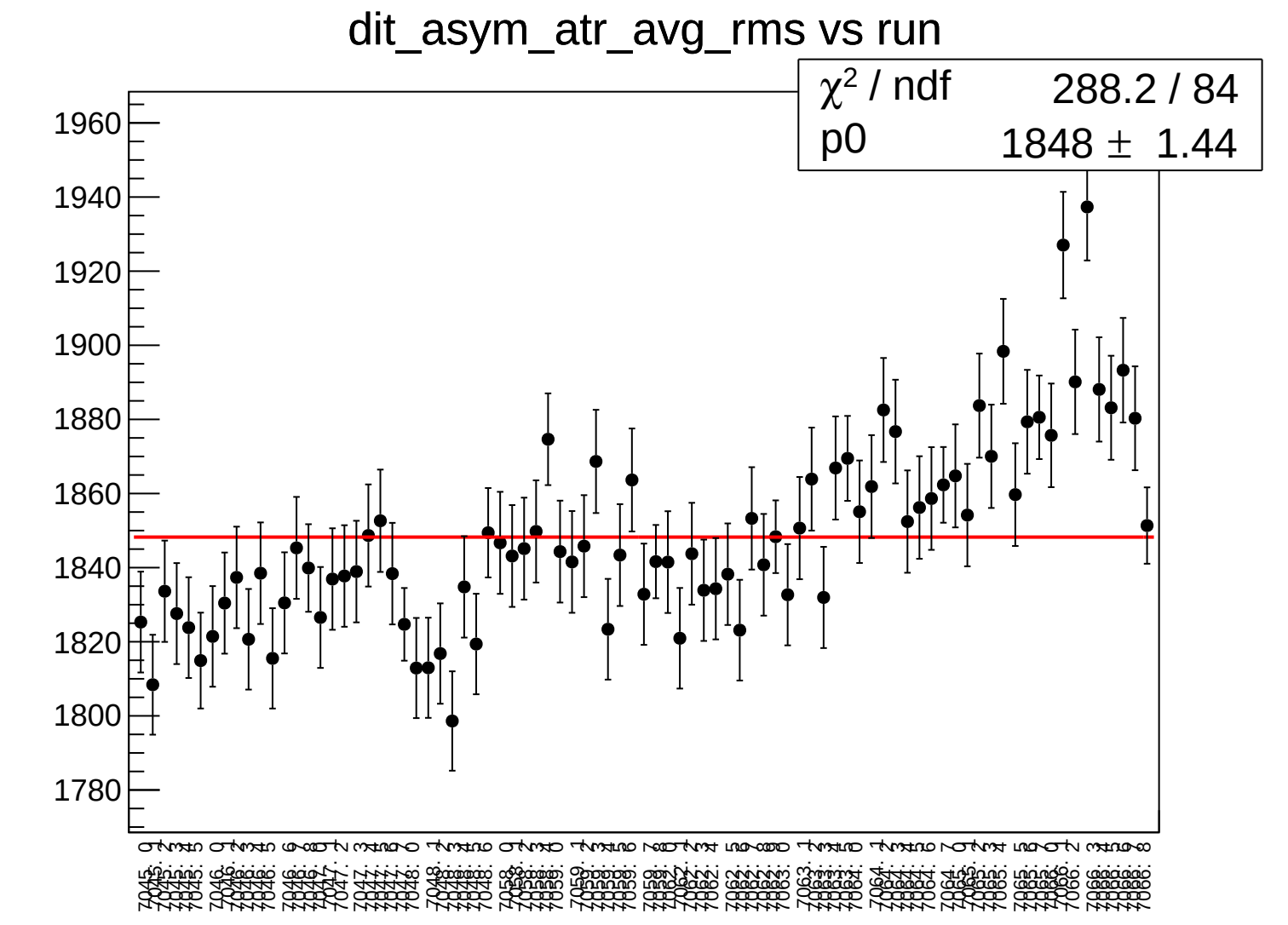

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.66 / 84
p0 −2043 ± 5645
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 168
Std Dev 0
2
1
0
−1
−2

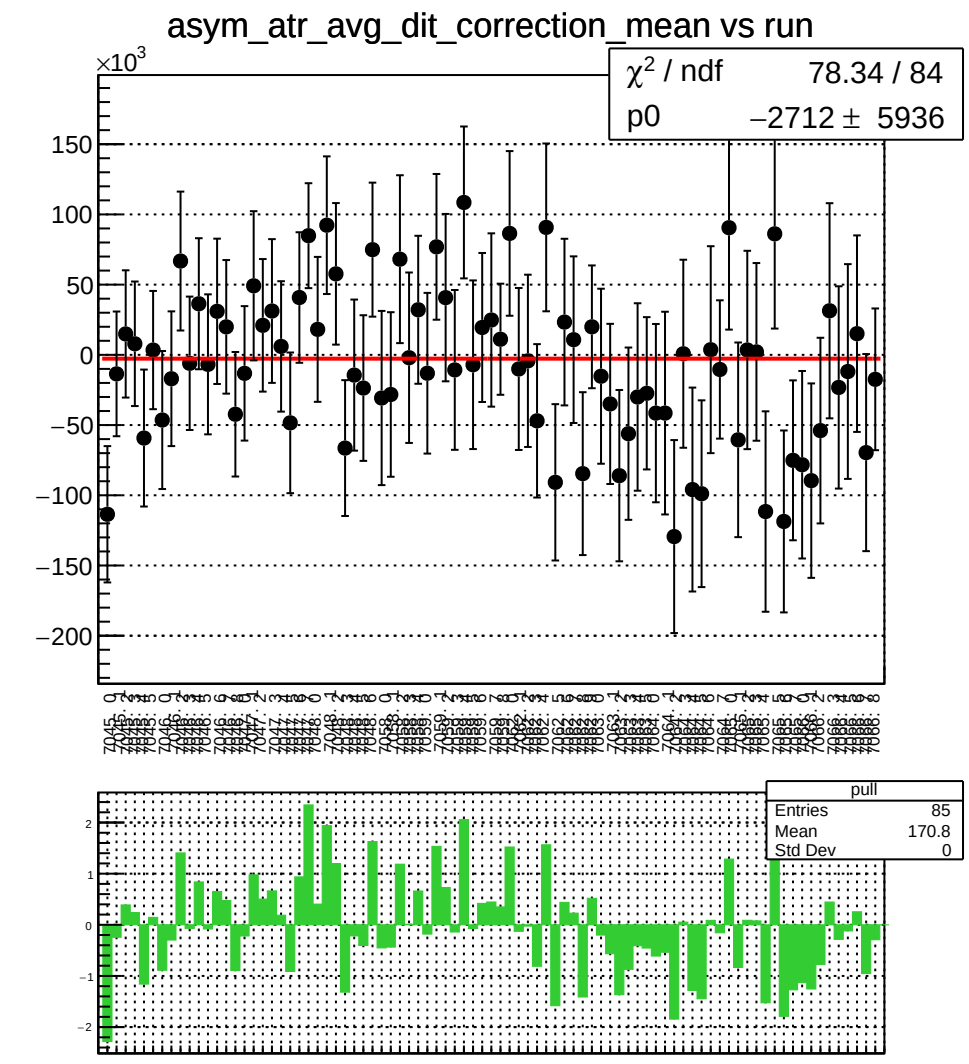

pull1D
Entries 85
Mean −0.04768
Std Dev 0.9608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

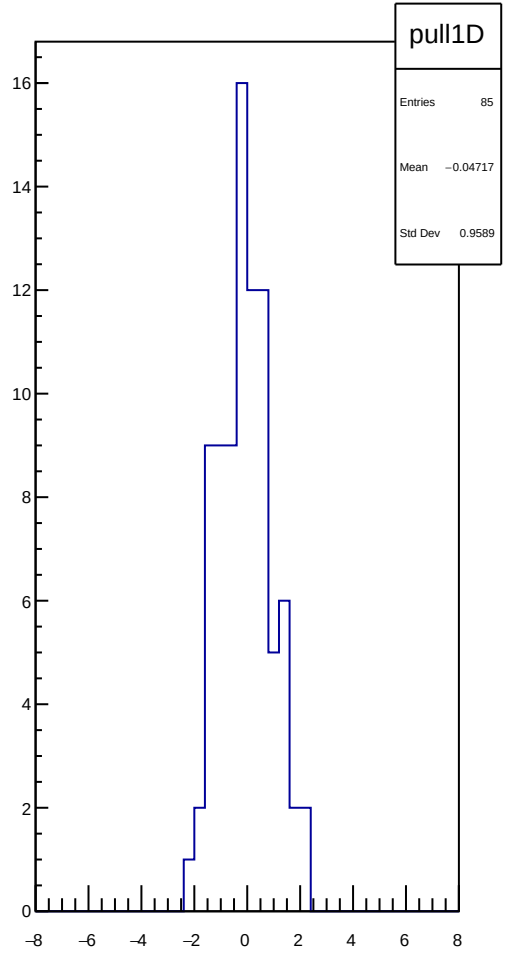

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.663e+04 / 84
p0 5066 ± 3.992
7000
6500
6000
5500
5000
4500
4000

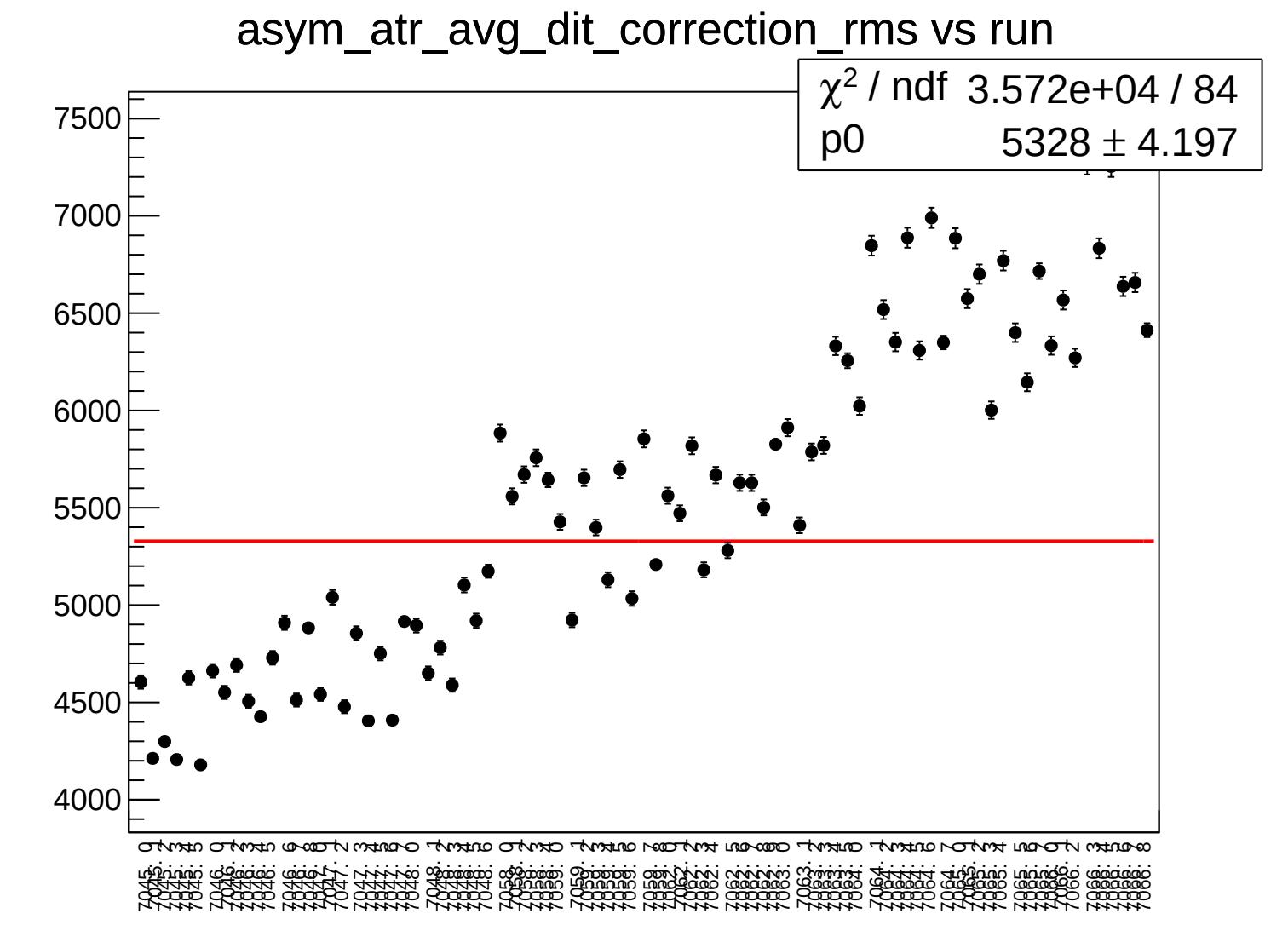

dit_asym_atr_avg_mean vs run
χ² / ndf 91.13 / 84
p0 −1613 ± 2037
pull
Entries 85
Mean 615
Std Dev 0

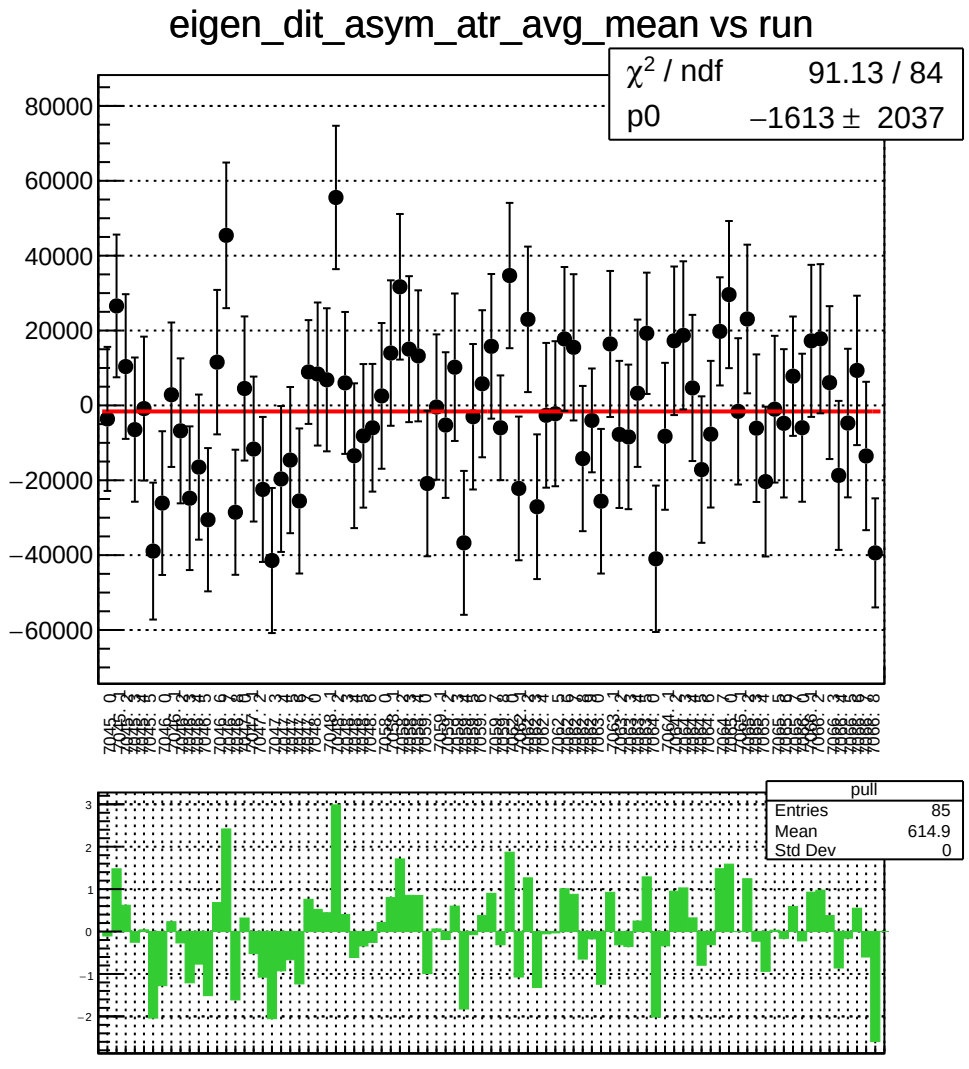

pull1D
Entries 85
Mean 0.003466
Std Dev 1.035

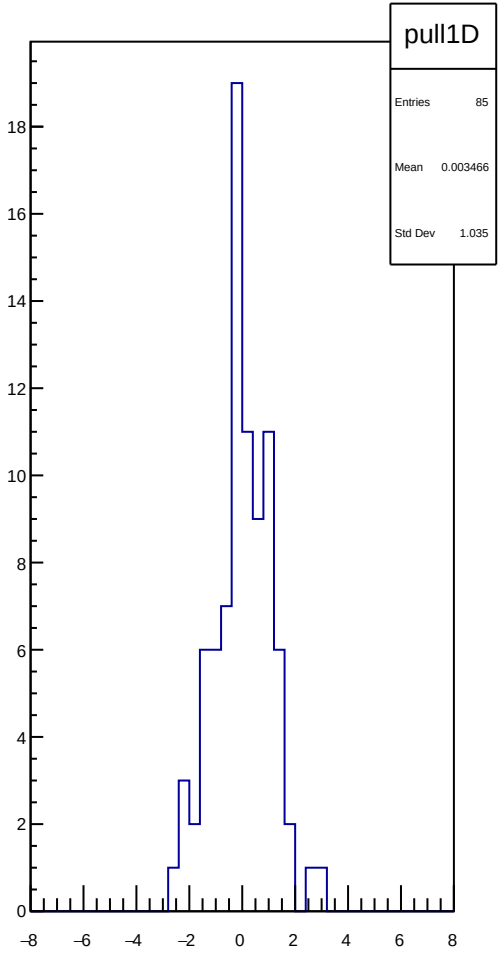

dit_asym_atr_avg_rms vs run
χ² / ndf 288.2 / 84
p0 1848 ± 1.44
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

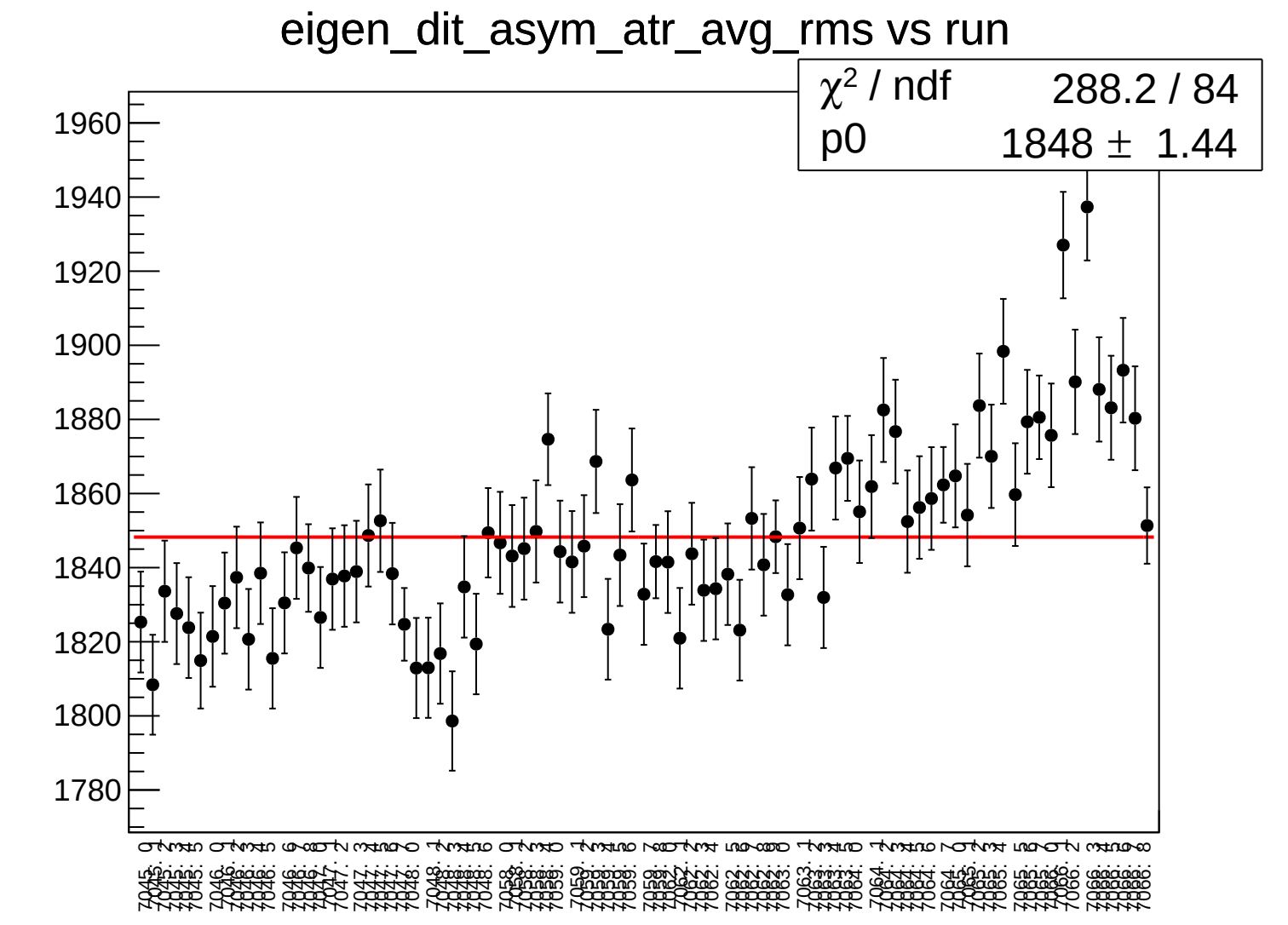

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.34 / 84
p0 −2712 ± 5936
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 170.8
Std Dev 0
2
1
0
−1
−2

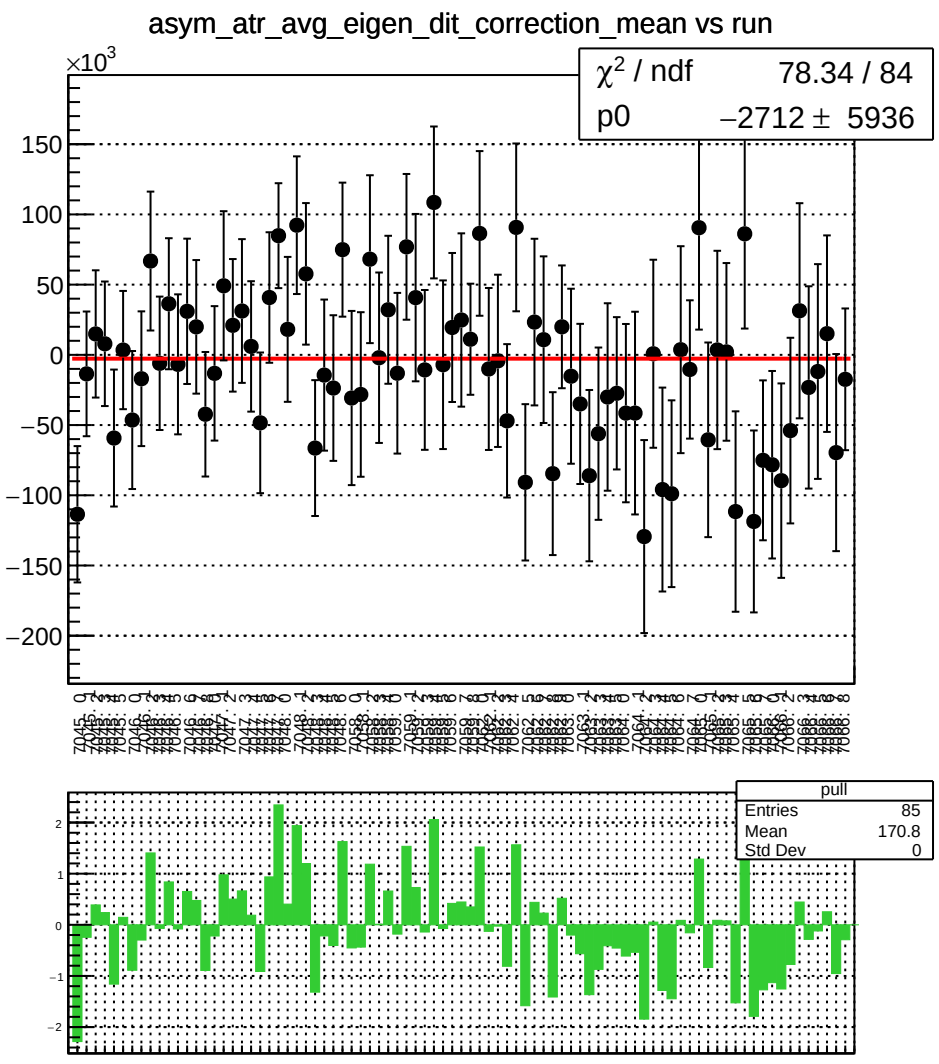

pull1D
Entries 85
Mean −0.04717
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

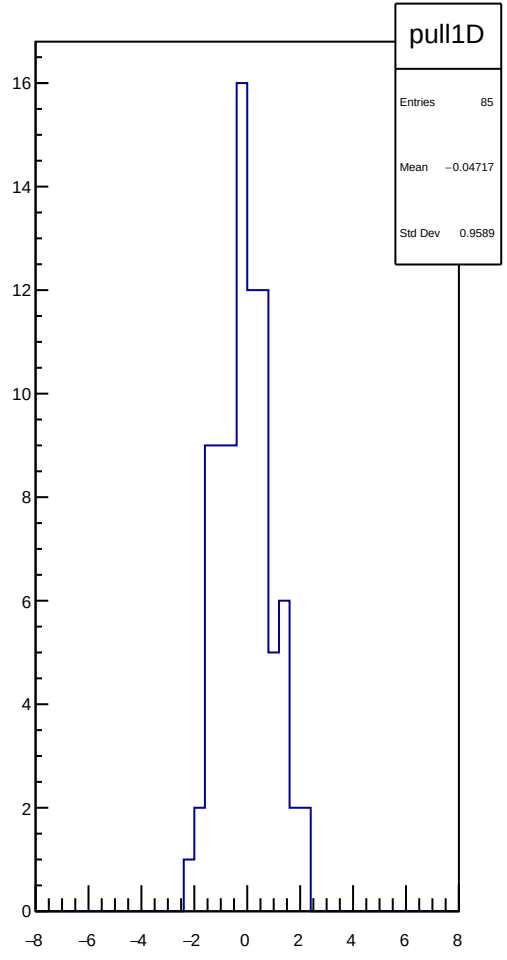

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 3.572e+04 / 84
p0 5328 ± 4.197
7500
7000
6500
6000
5500
5000
4500
4000

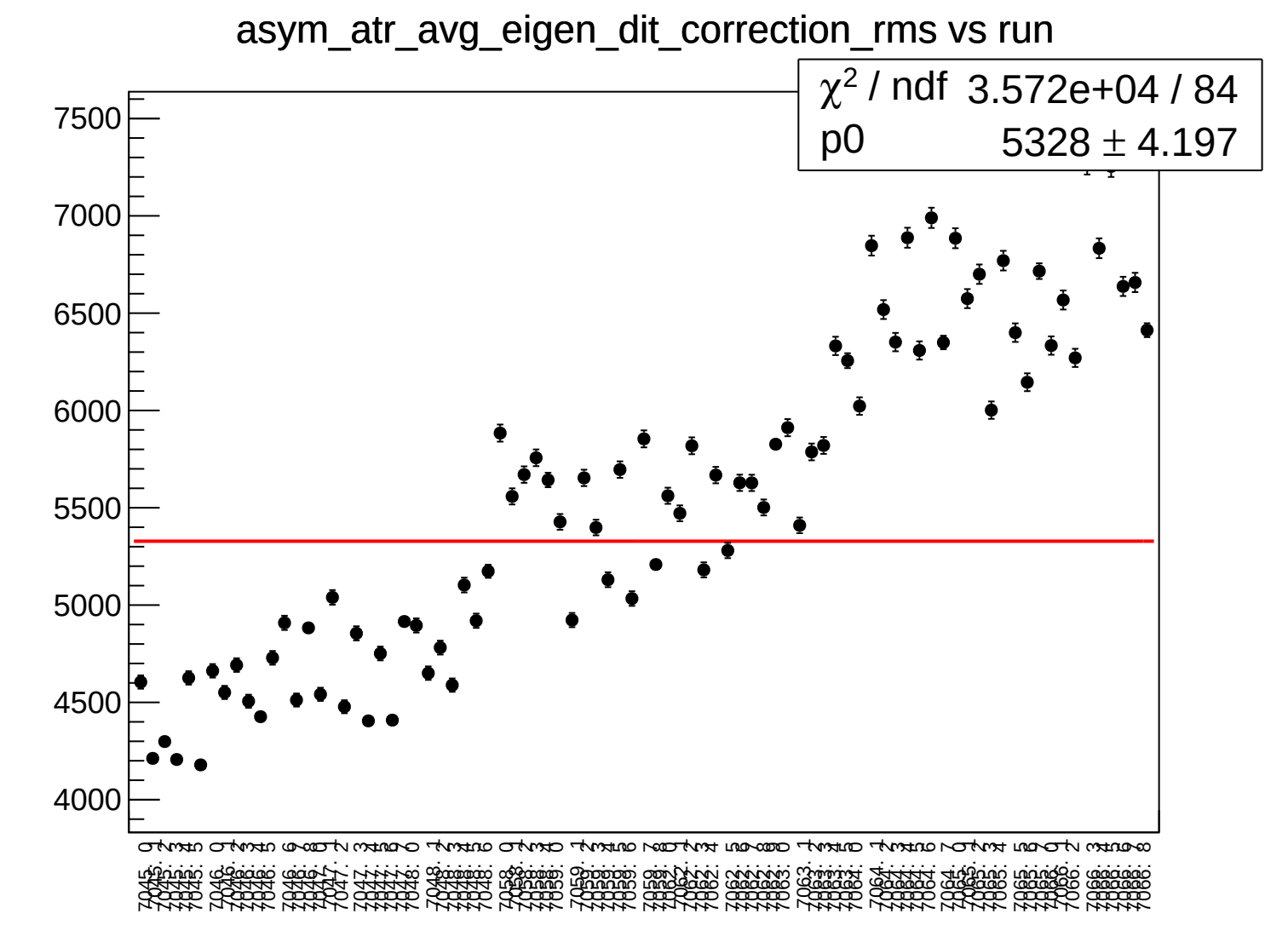

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 91.13 / 84
p0 −1613 ± 2037
pull
Entries 85
Mean 614.9
Std Dev 0

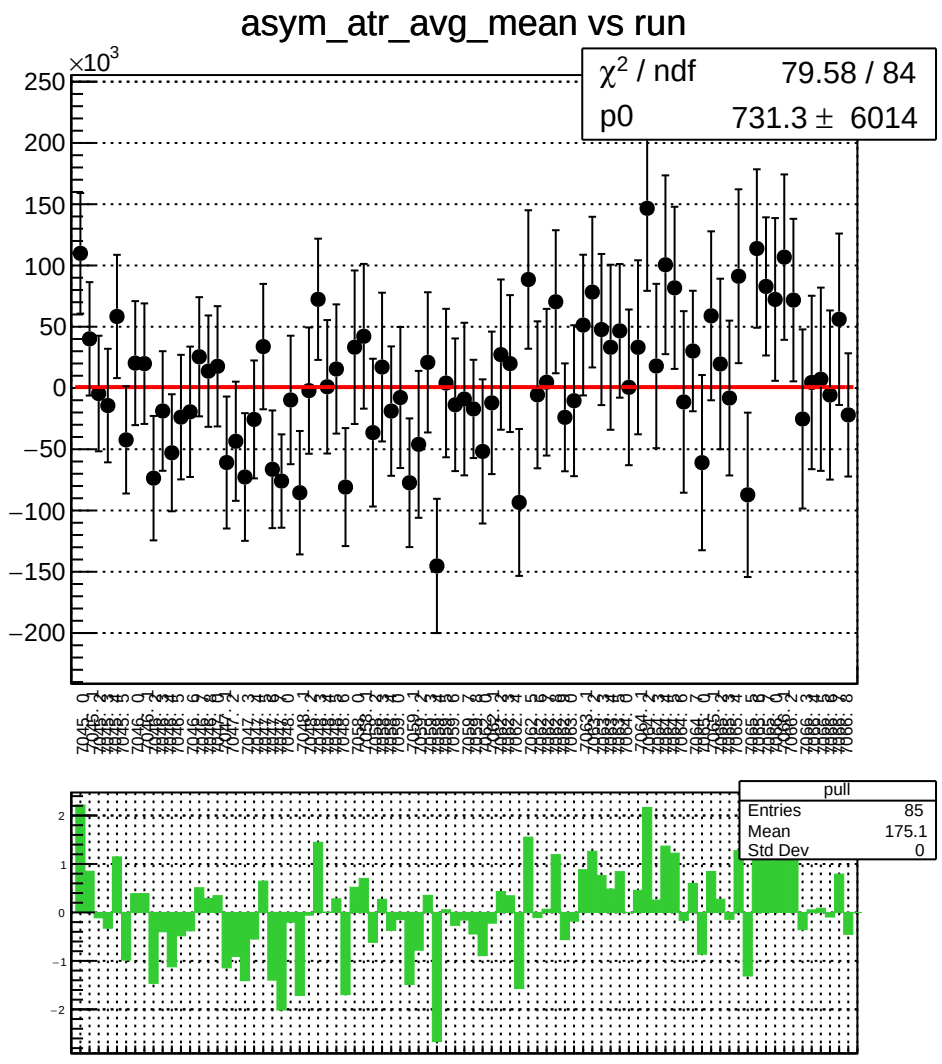

pull1D
Entries 85
Mean 0.003466
Std Dev 1.035

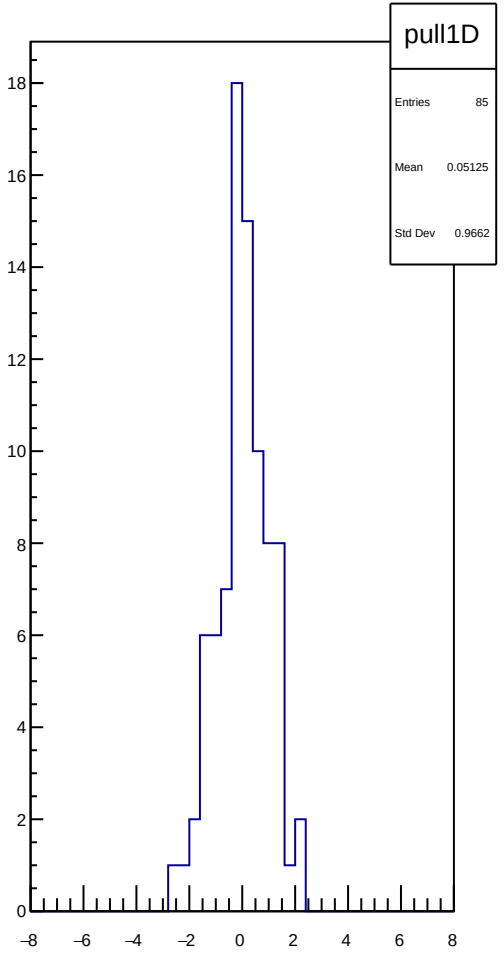

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 288.2 / 84
p0 1848 ± 1.44
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

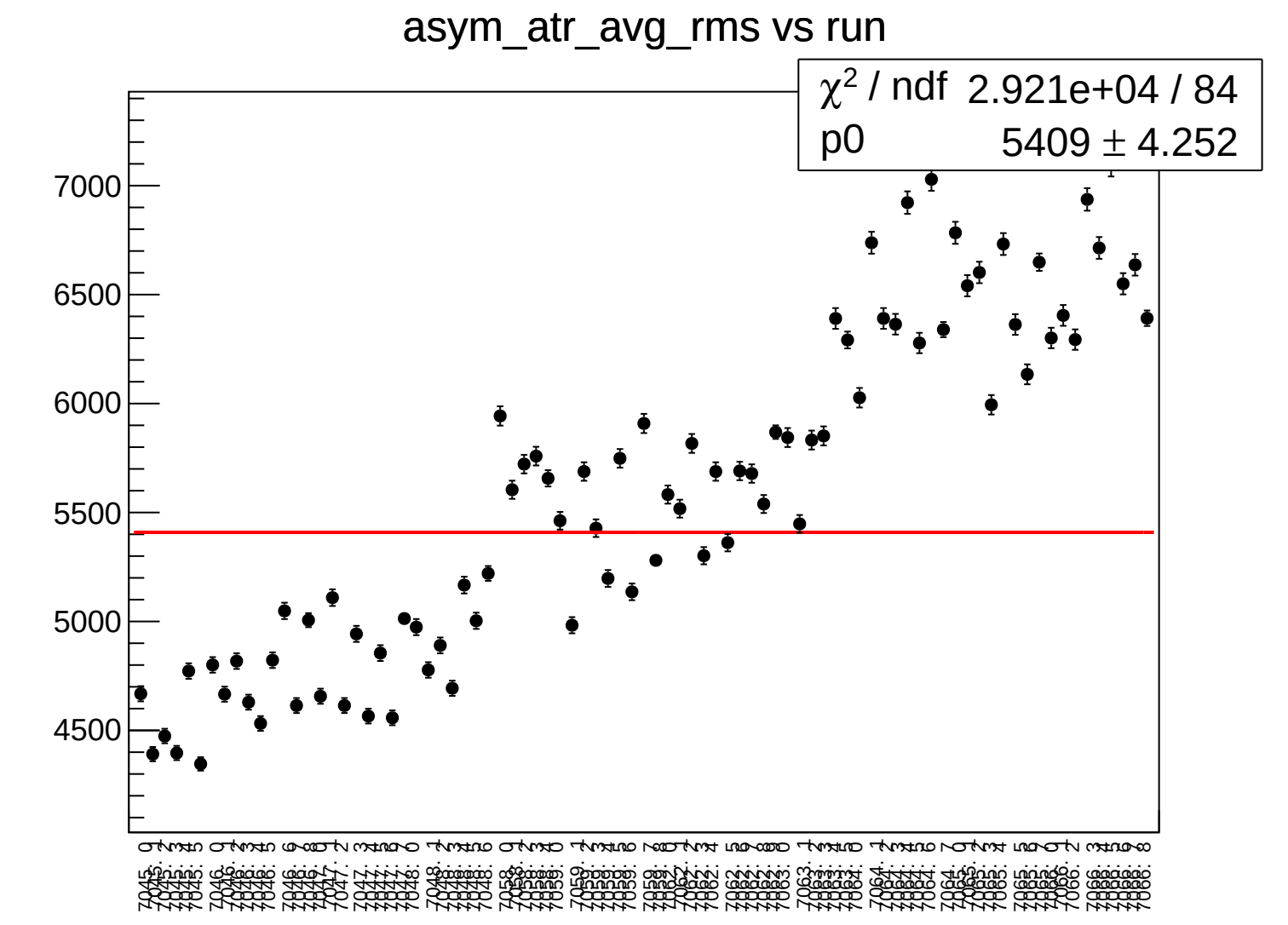

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.34 / 84
p0 −2712 ± 5936
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 170.8
Std Dev 0
2
1
0
−1
−2

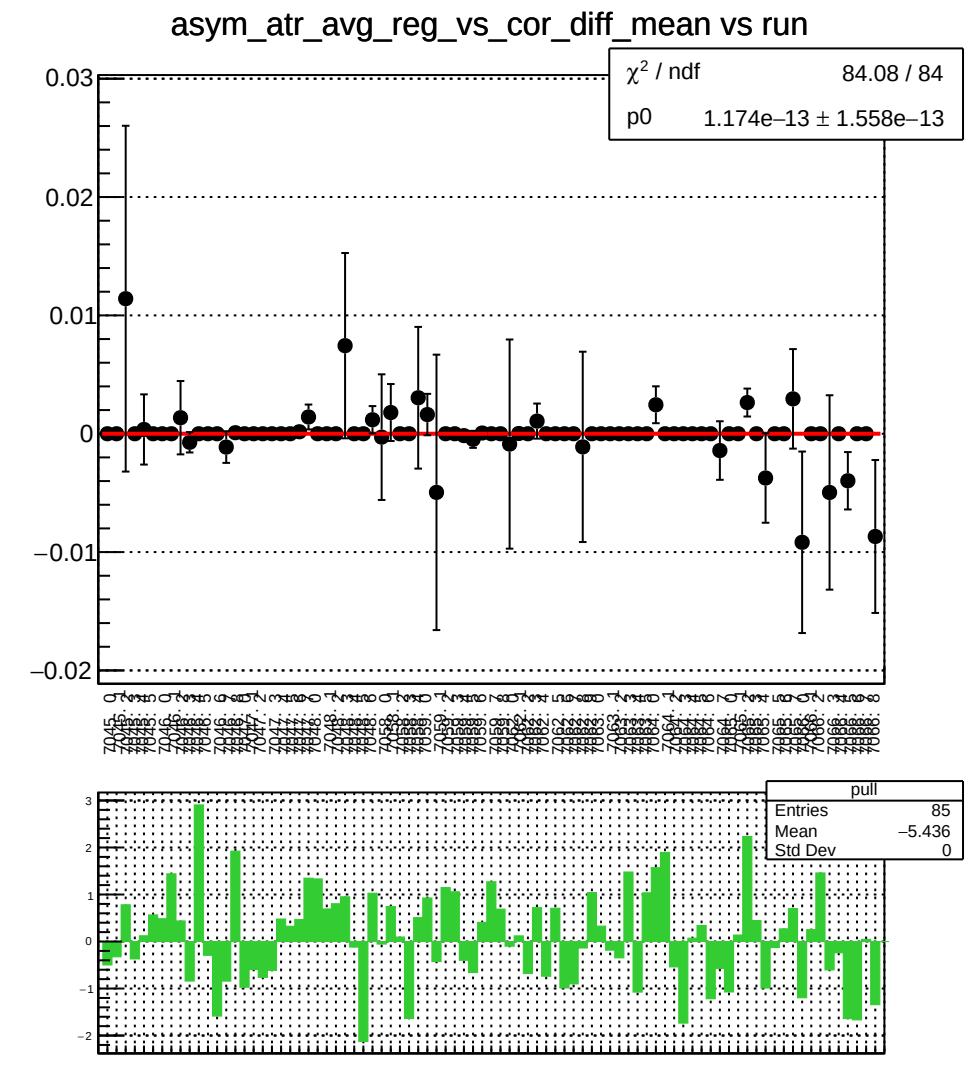

pull1D
Entries 85
Mean −0.04717
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

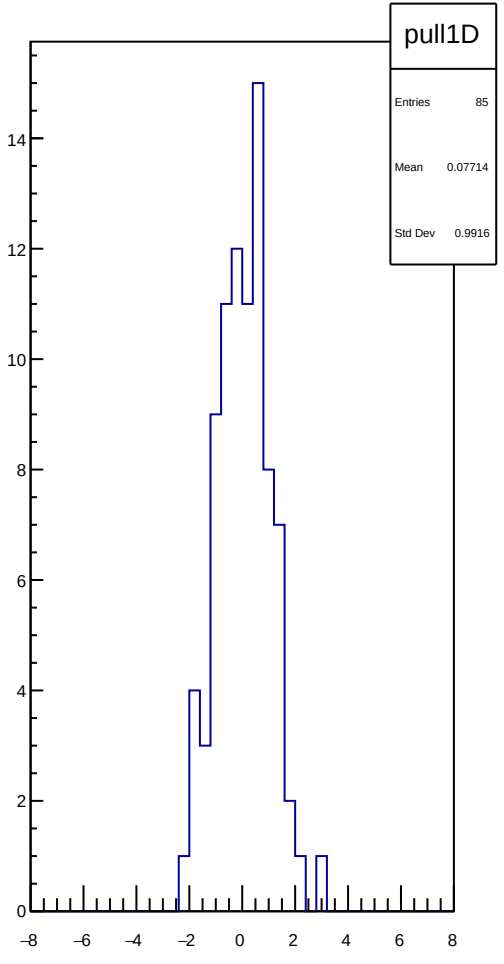

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.572e+04 / 84
p0 5328 ± 4.197
7500
7000
6500
6000
5500
5000
4500
4000

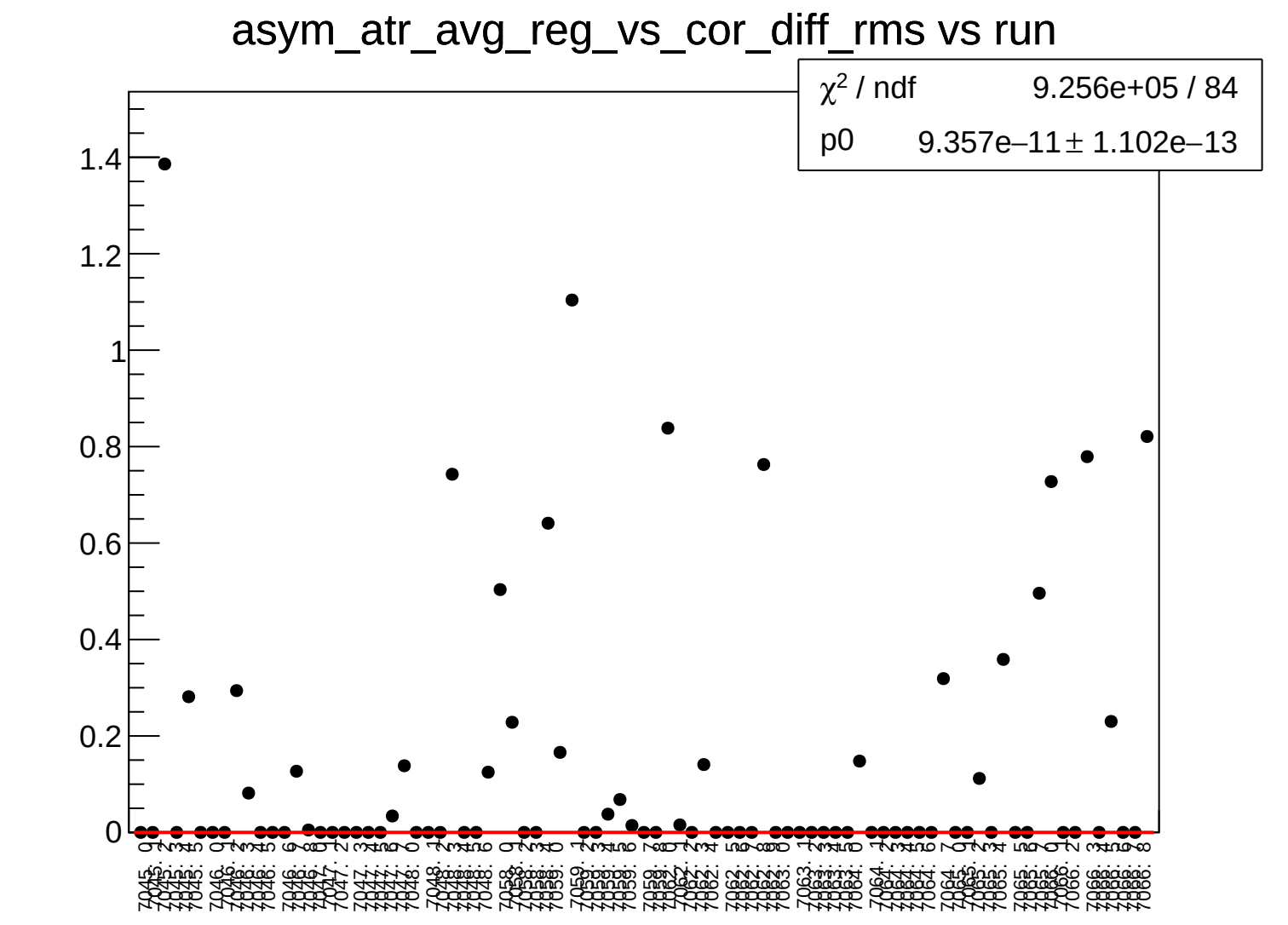

asym_atr_avg_mean vs run
×10^3
χ² / ndf 79.58 / 84
p0 731.3 ± 6014
pull
Entries 85
Mean 175.1
Std Dev 0

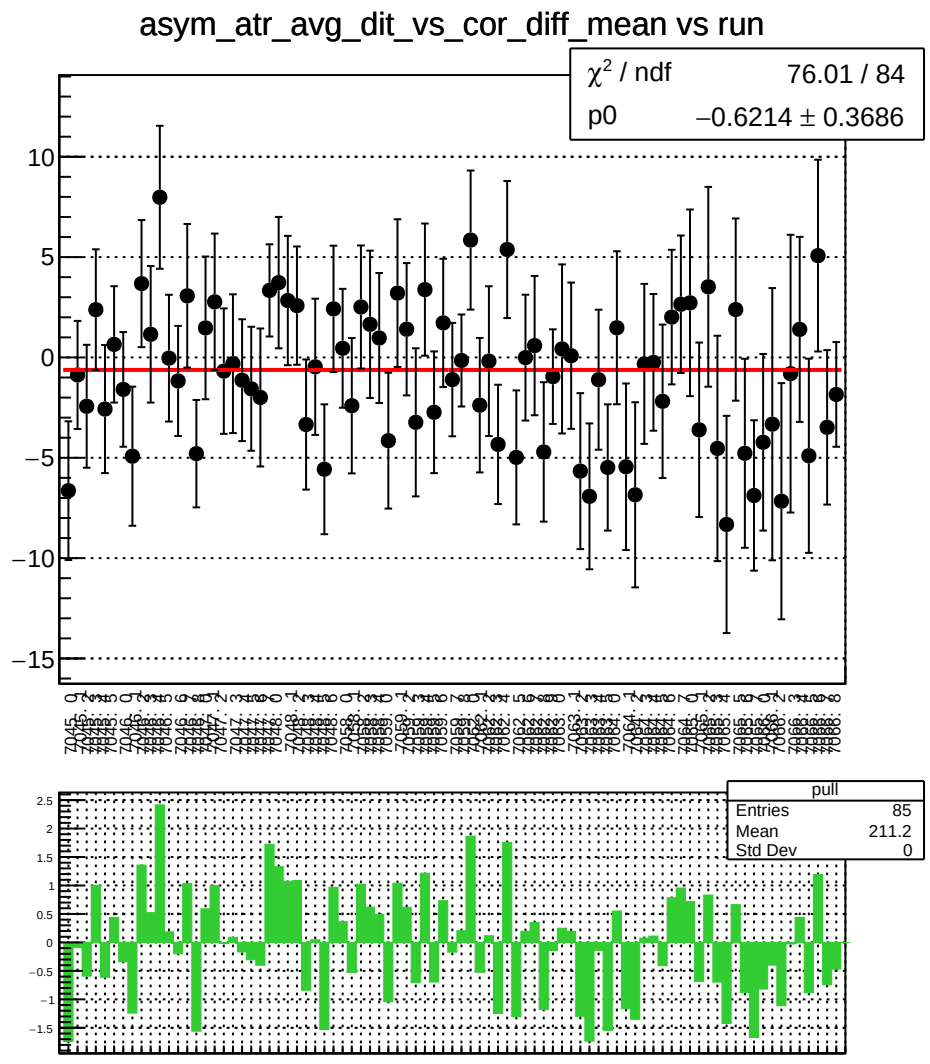

pull1D
Entries 85
Mean 0.05125
Std Dev 0.9662

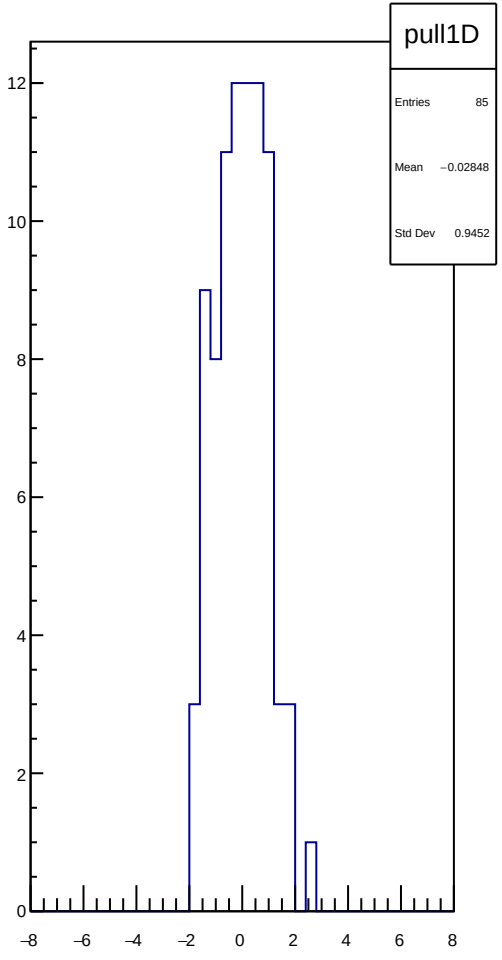

asym_atr_avg_rms vs run
χ² / ndf 2.921e+04 / 84
p0 5409 ± 4.252
7000
6500
6000
5500
5000
4500

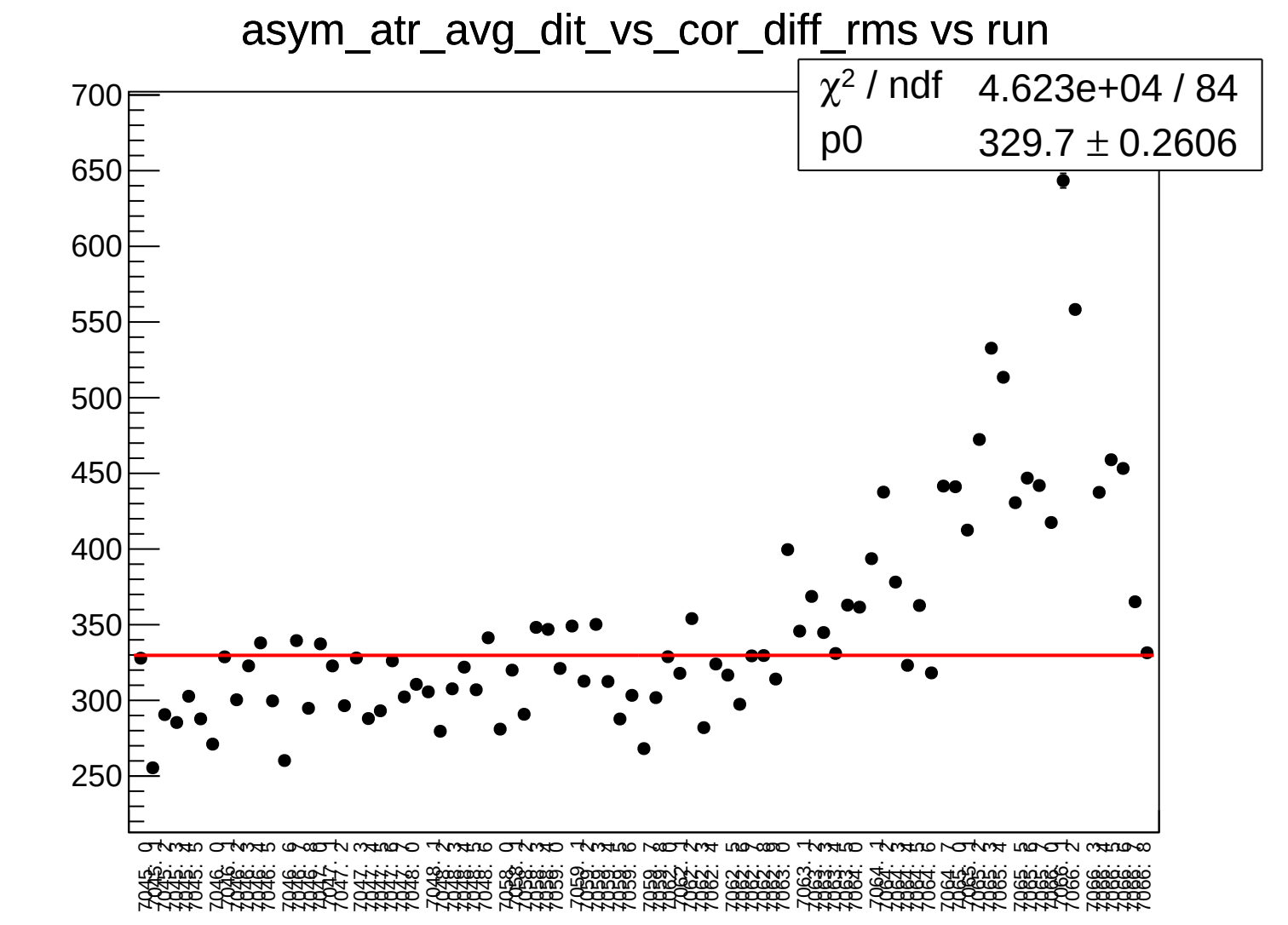

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 84
p0 1.174e−13 ± 1.558e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −5.436
Std Dev 0
3
2
1
0
−1
−2

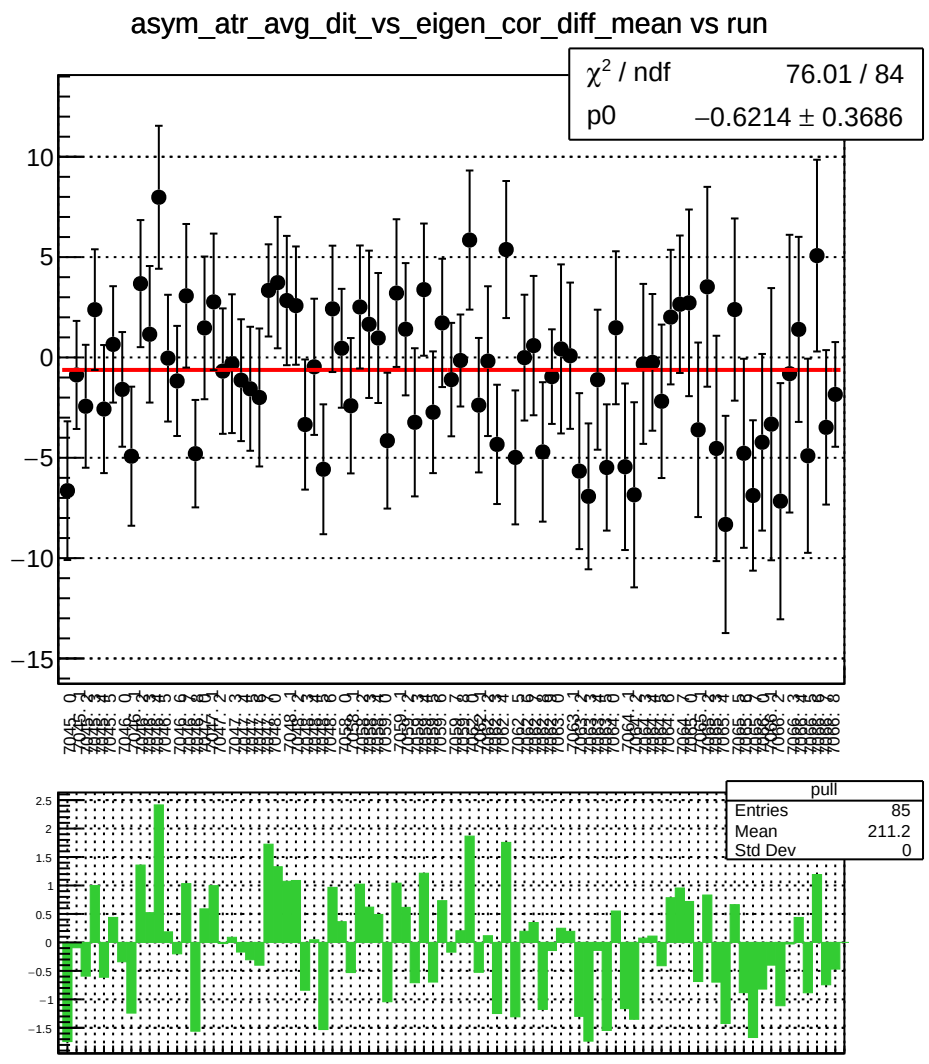

pull1D
Entries 85
Mean 0.07714
Std Dev 0.9916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

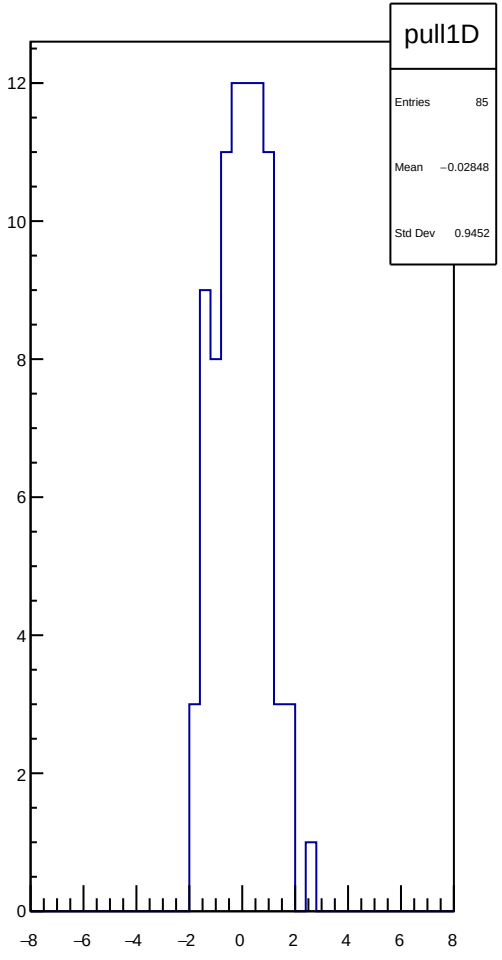

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.256e+05 / 84
p0 9.357e−11 ± 1.102e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

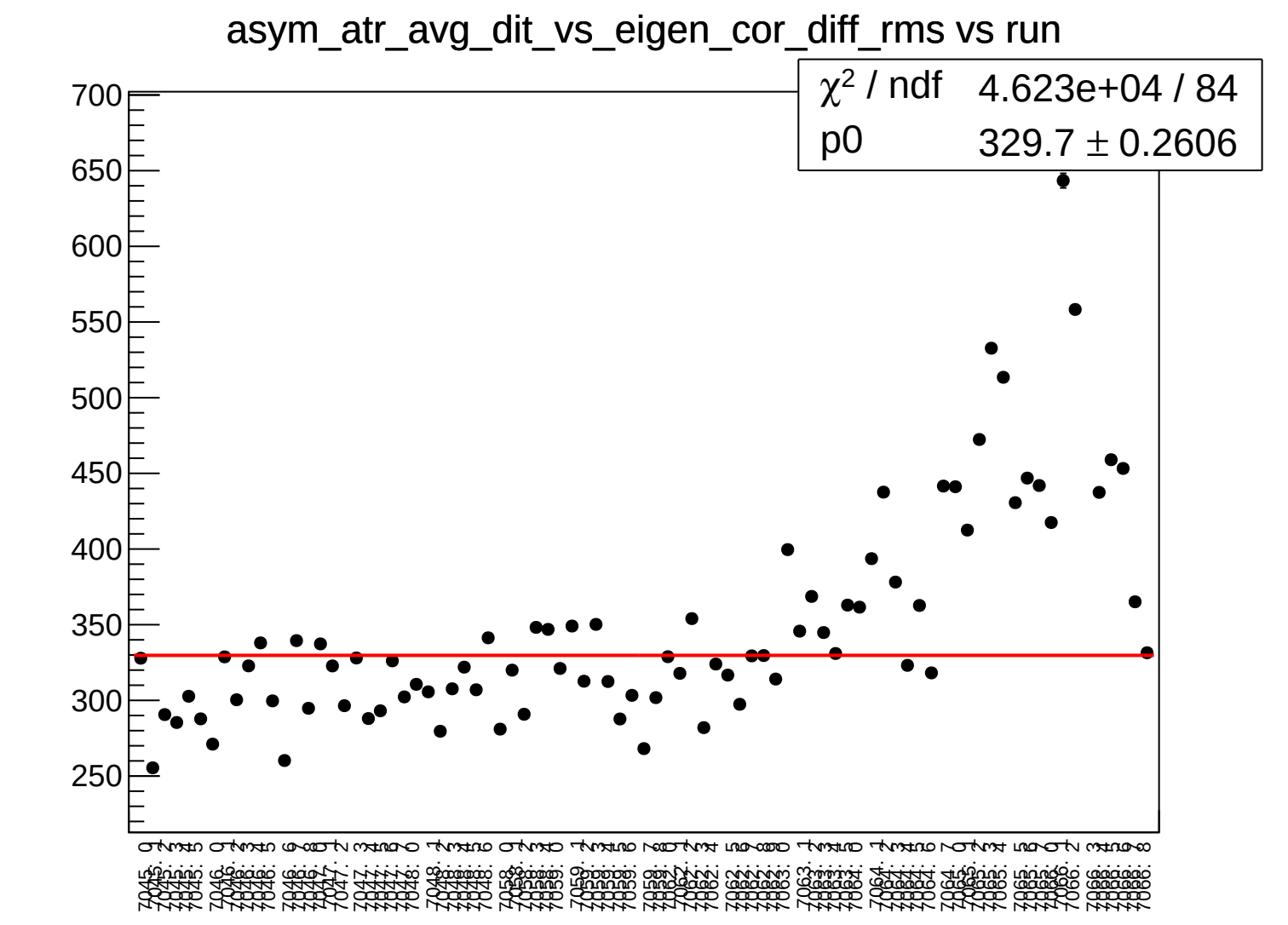

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 84
p0 −0.6214 ± 0.3686
pull
Entries 85
Mean 211.2
Std Dev 0

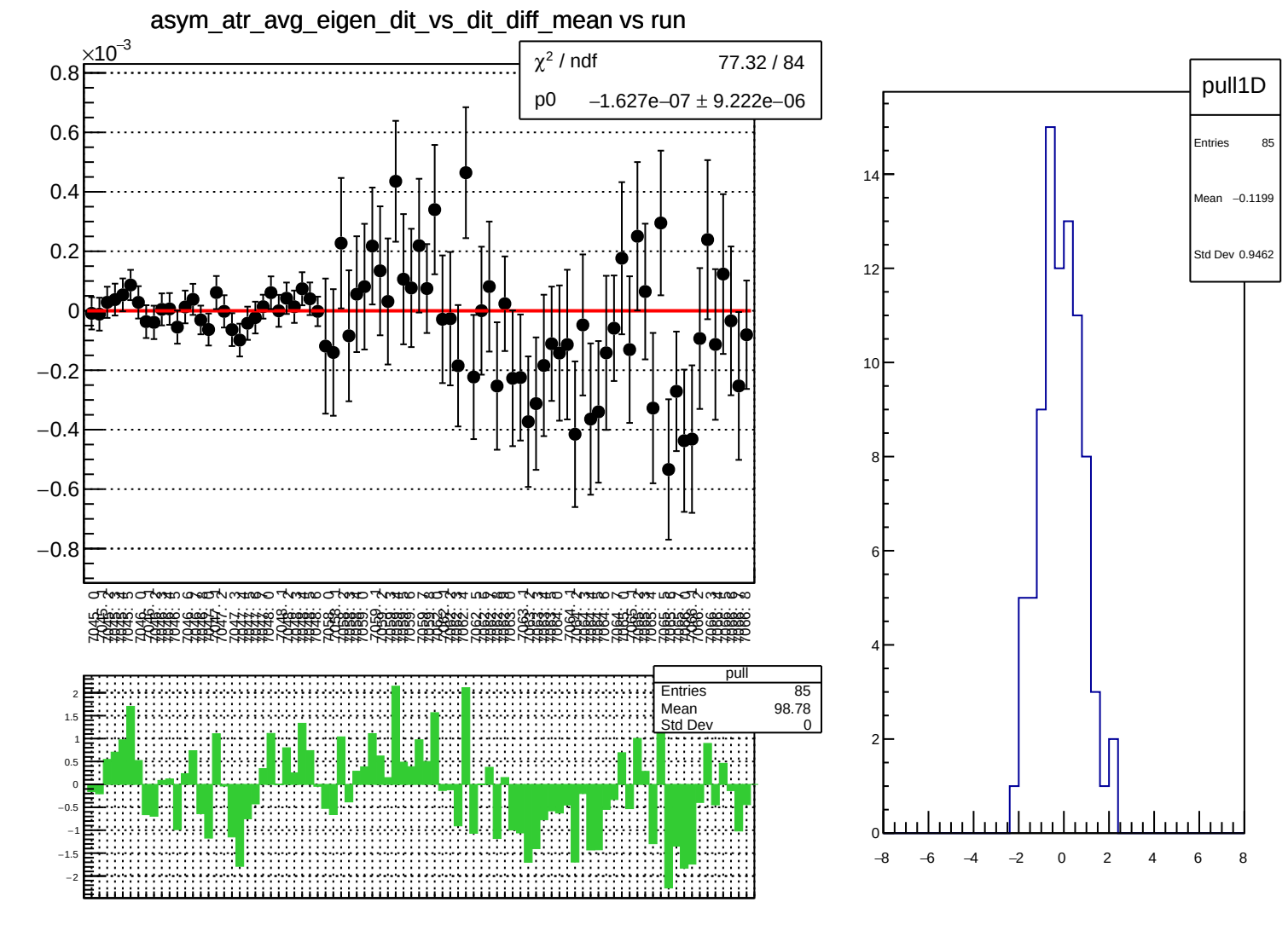

pull1D
Entries 85
Mean −0.02848
Std Dev 0.9452

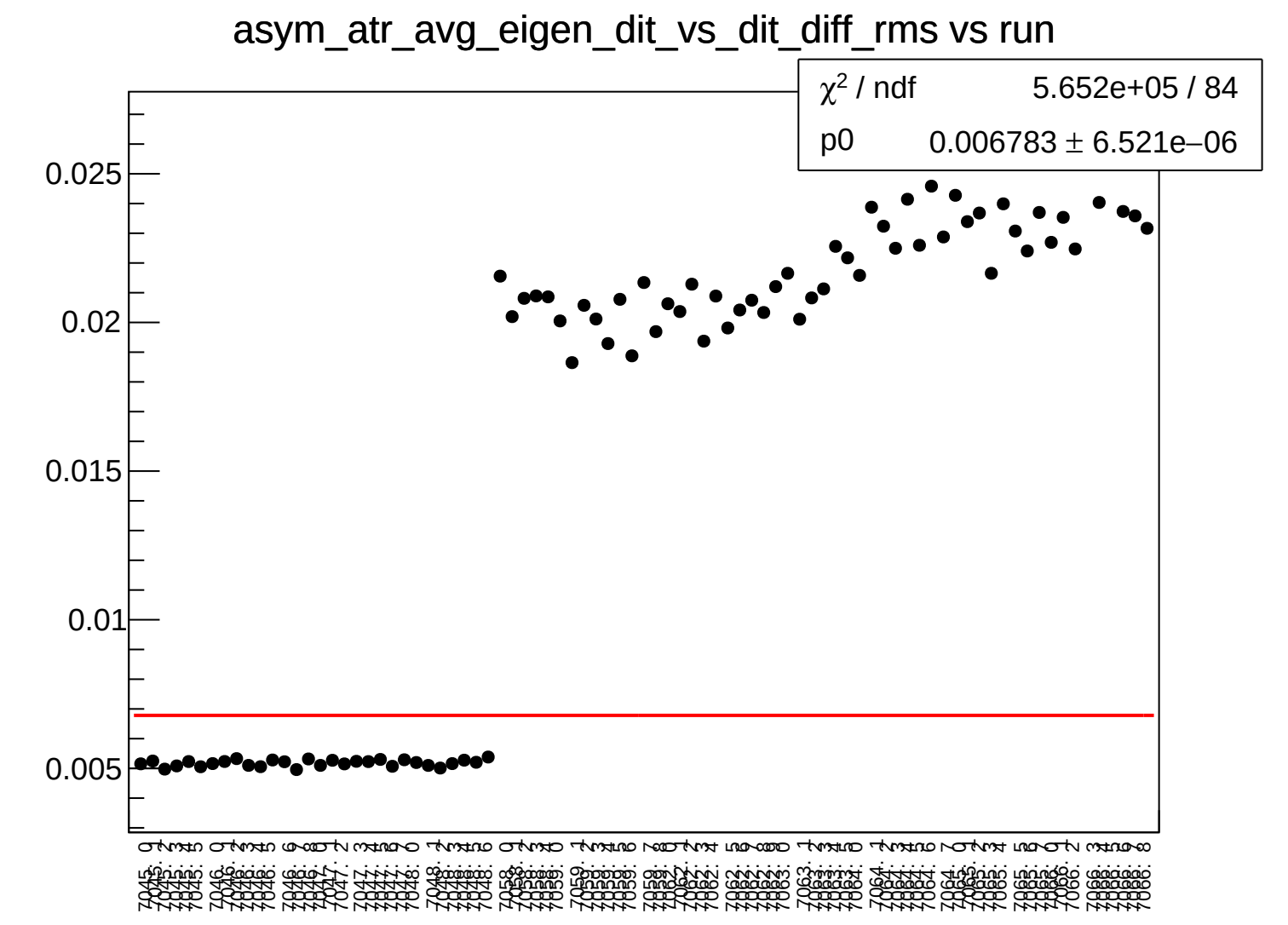

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.623e+04 / 84
p0 329.7 ± 0.2606
700
650
600
550
500
450
400
350
300
250

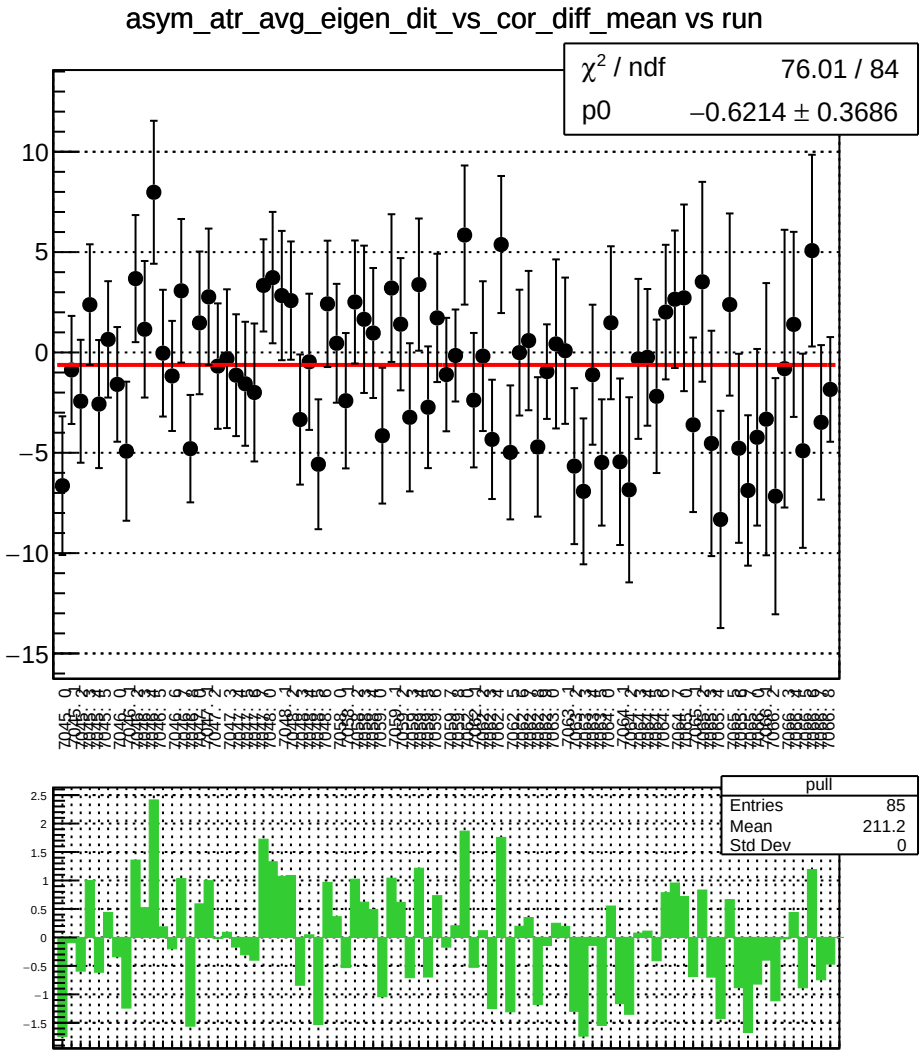

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 84
p0 −0.6214 ± 0.3686
pull
Entries 85
Mean 211.2
Std Dev 0

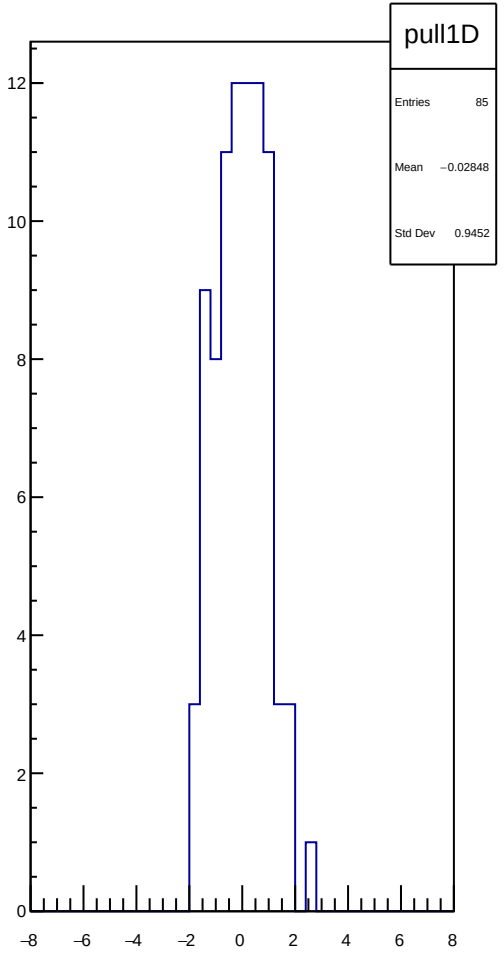

pull1D
Entries 85
Mean −0.02848
Std Dev 0.9452

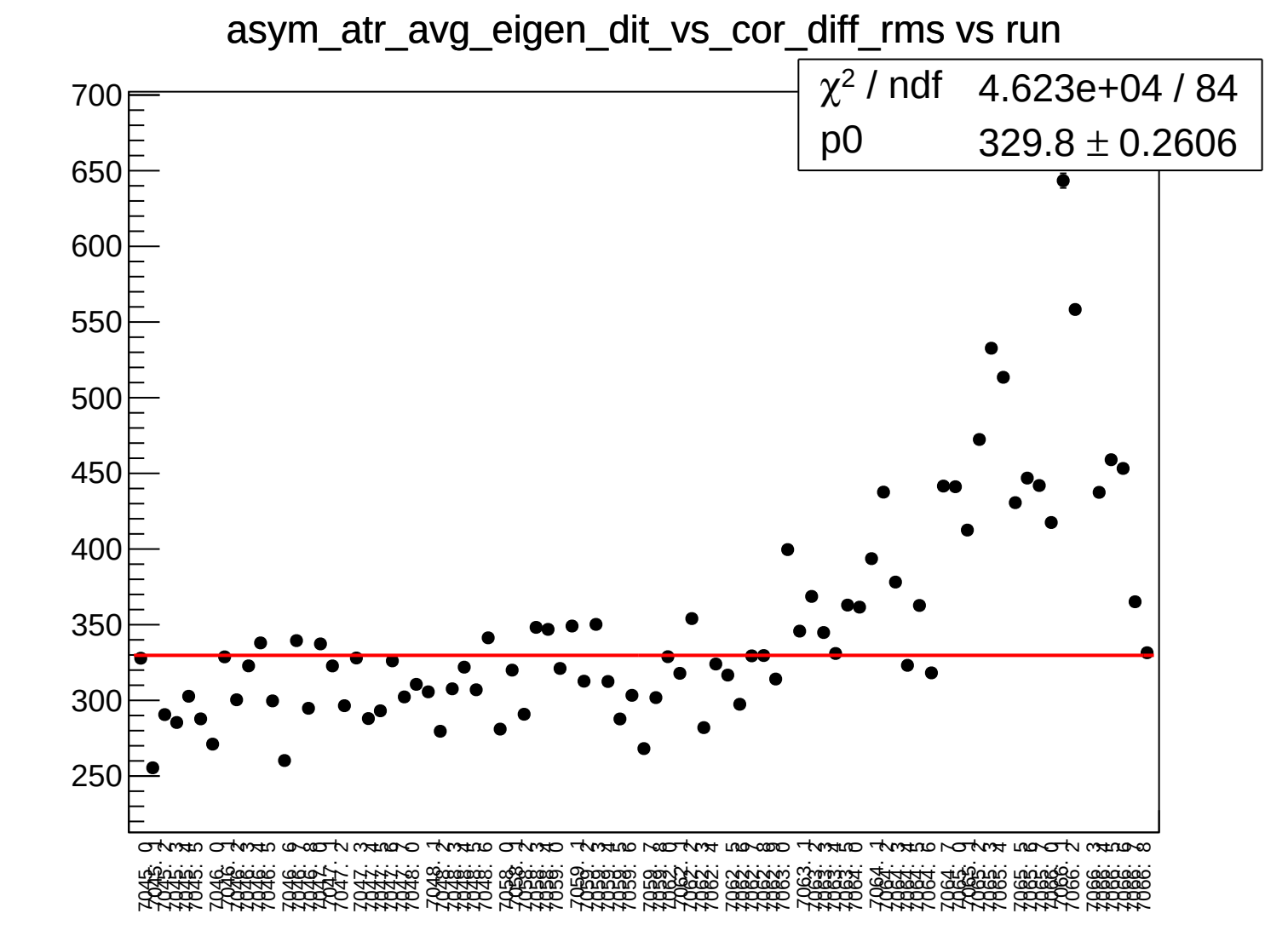

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.623e+04 / 84
p0 329.7 ± 0.2606
700
650
600
550
500
450
400
350
300
250

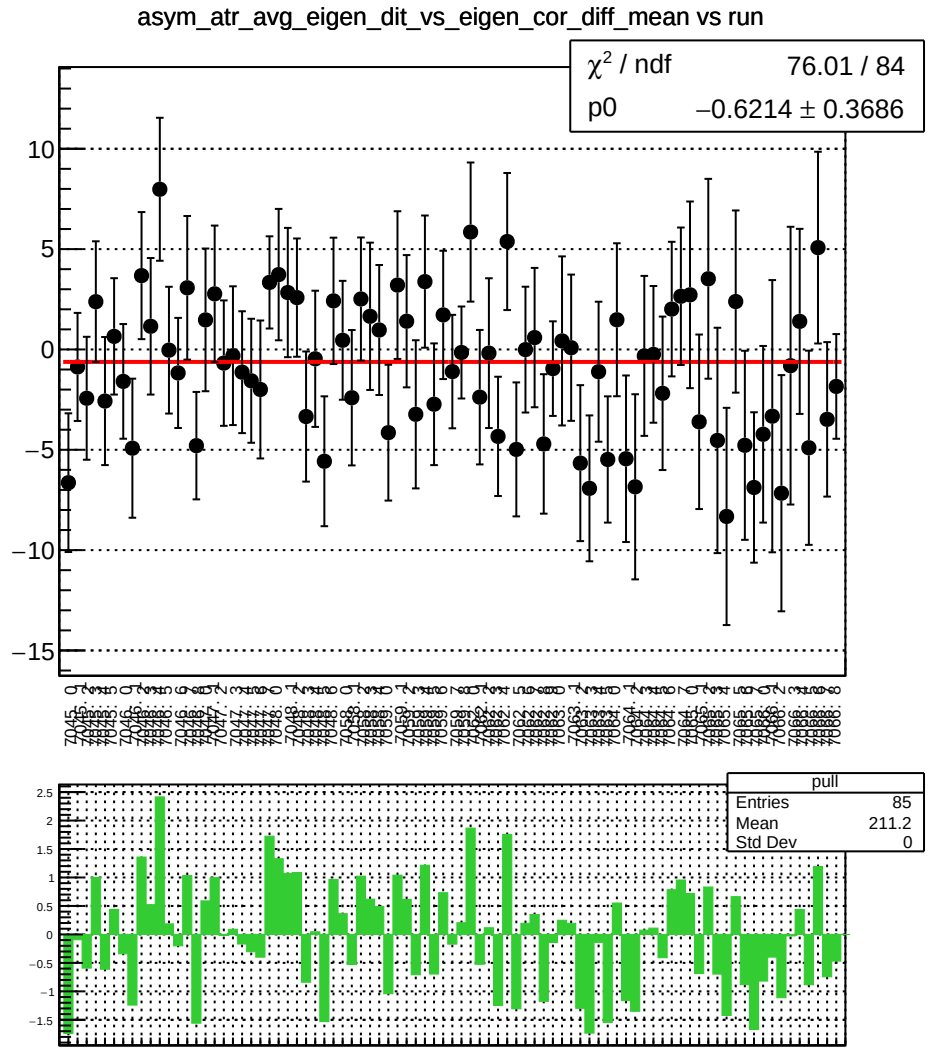

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.32 / 84
p0 −1.627e−07 ± 9.222e−06
pull
Entries 85
Mean 98.78
Std Dev 0
pull1D
Entries 85
Mean −0.1199
Std Dev 0.9462

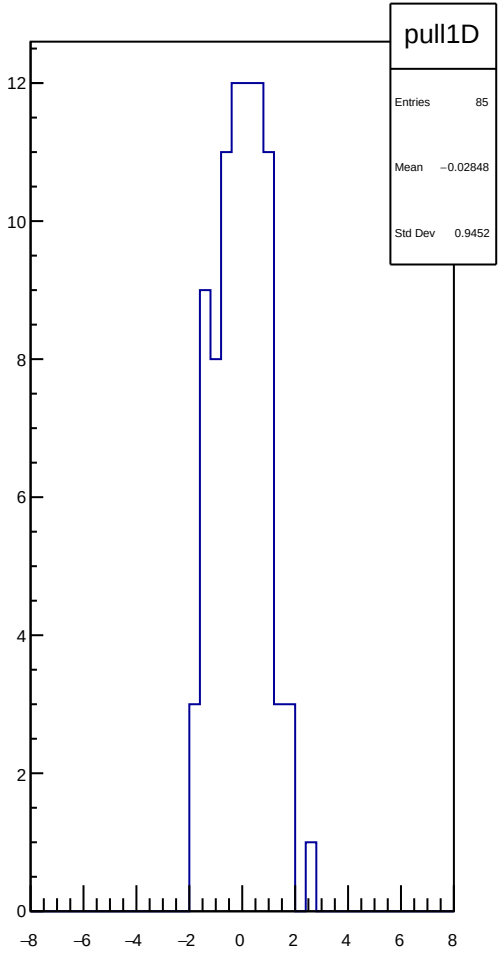

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.652e+05 / 84
p0 0.006783 ± 6.521e−06
0.025
0.02
0.015
0.01
0.005

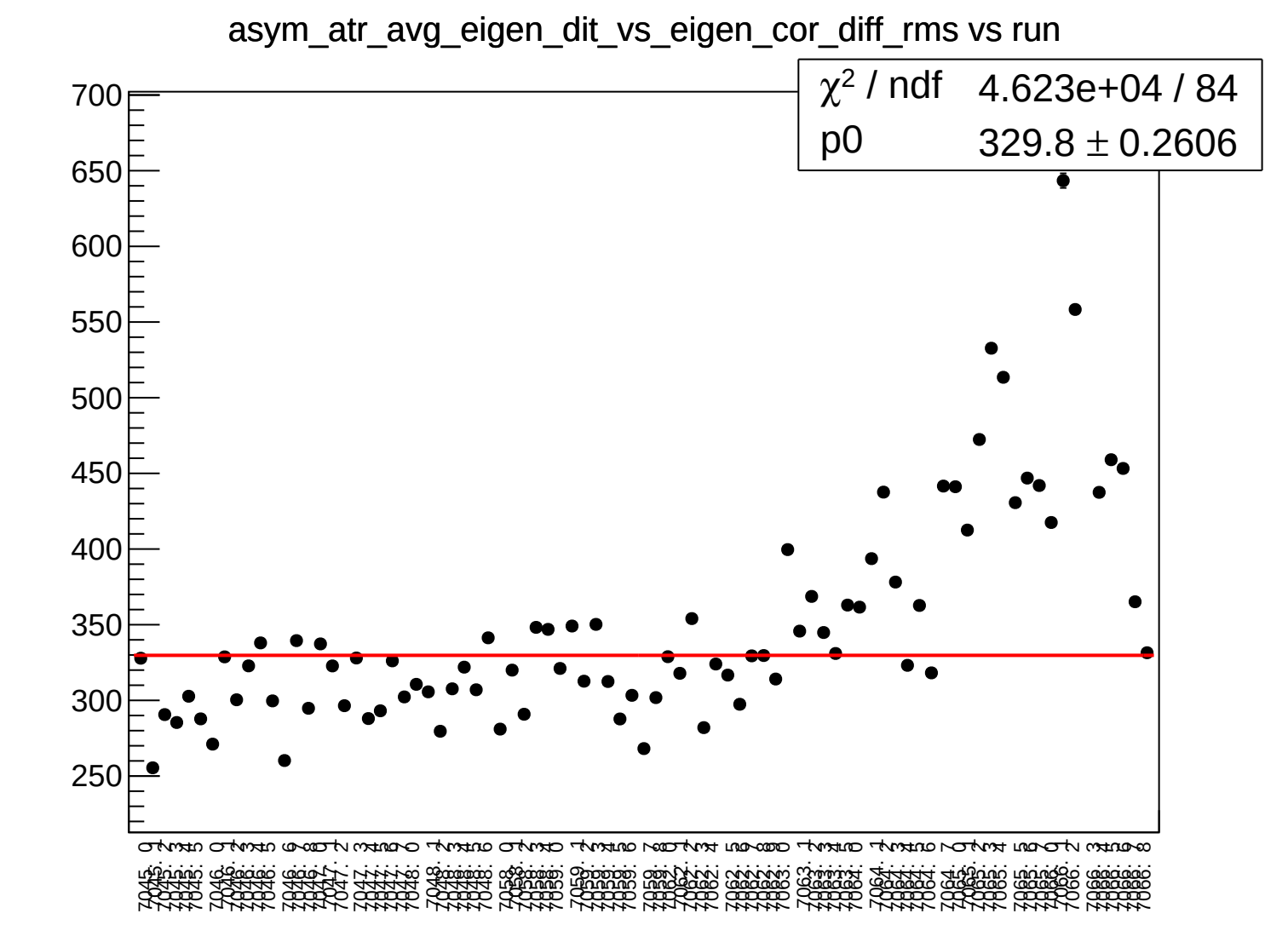

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 84
p0 −0.6214 ± 0.3686
pull
Entries 85
Mean 211.2
Std Dev 0

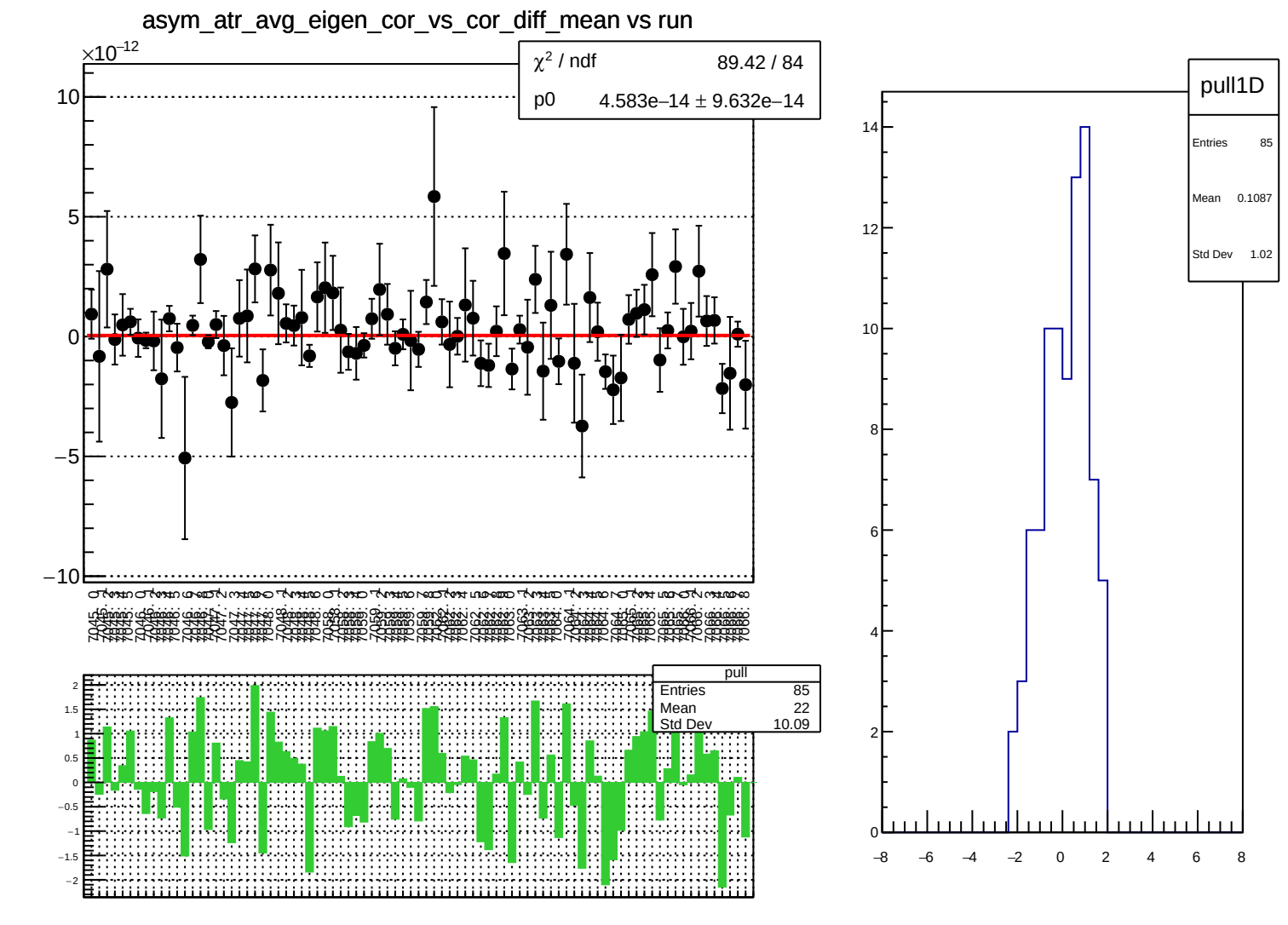

pull1D
Entries 85
Mean −0.02848
Std Dev 0.9452

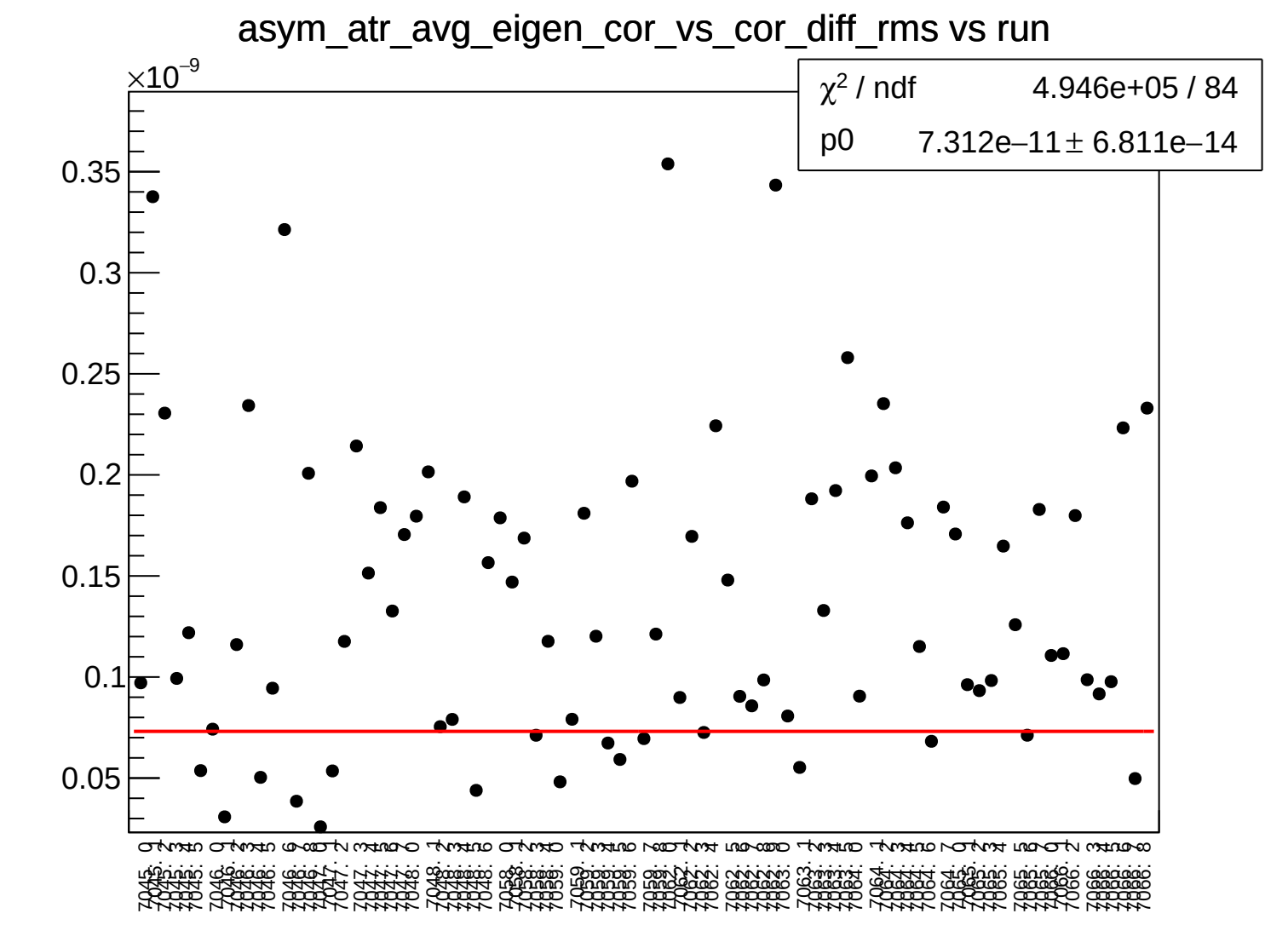

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.623e+04 / 84
p0 329.8 ± 0.2606
700
650
600
550
500
450
400
350
300
250

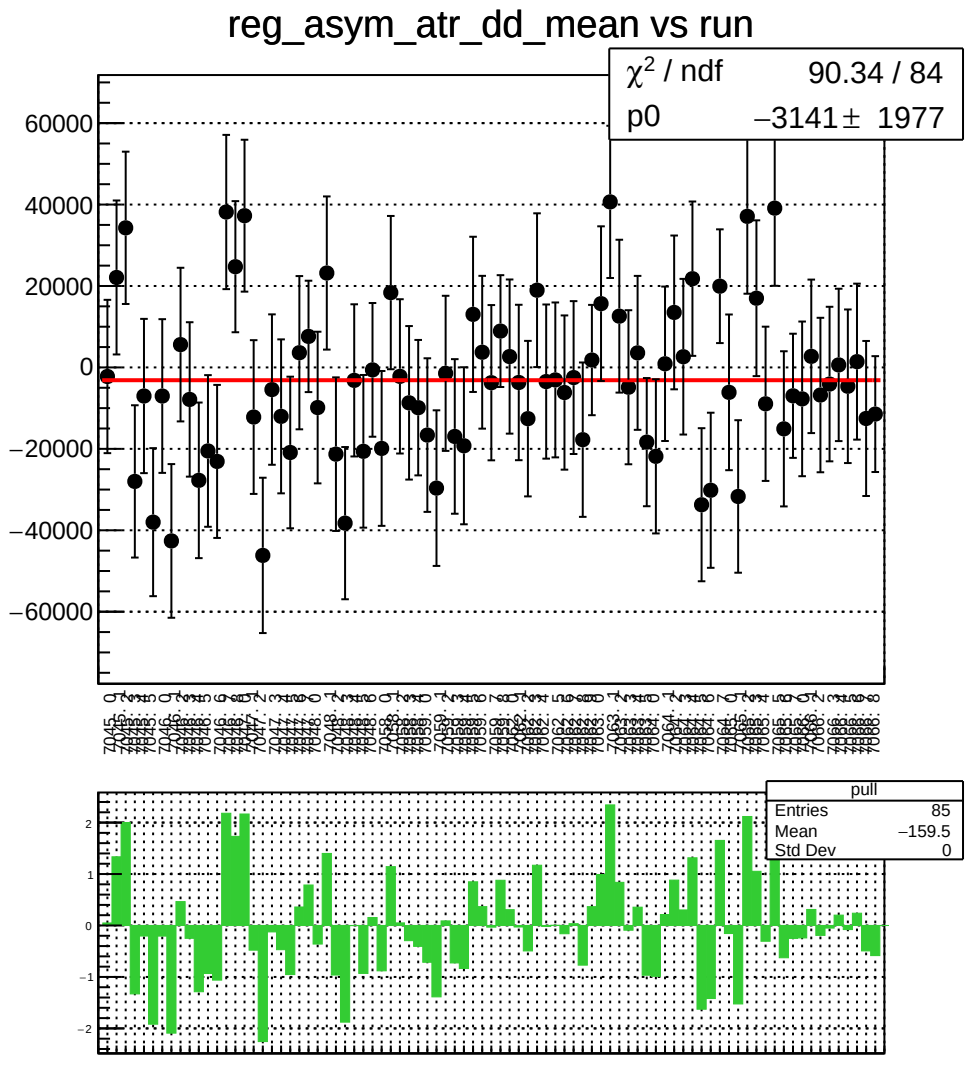

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 84
p0 −0.6214 ± 0.3686
pull
Entries 85
Mean 211.2
Std Dev 0

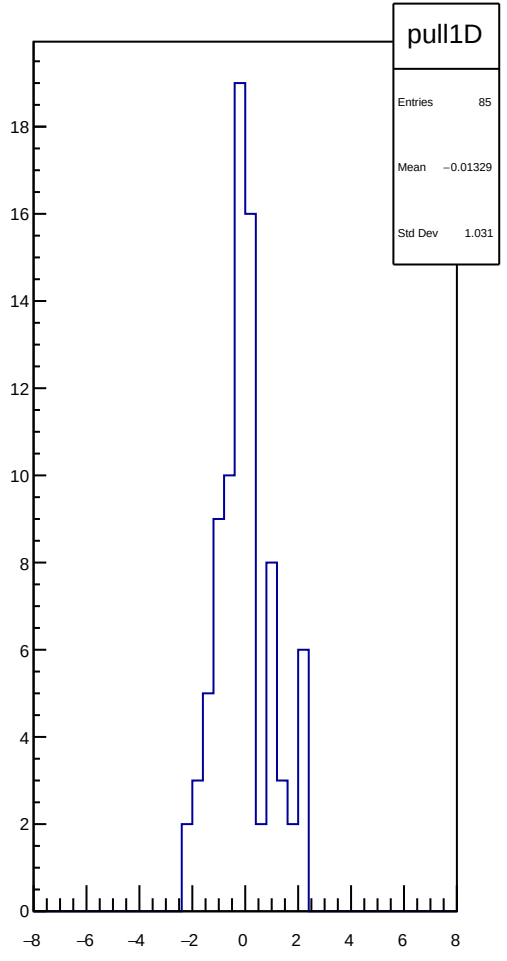

pull1D
Entries 85
Mean −0.02848
Std Dev 0.9452

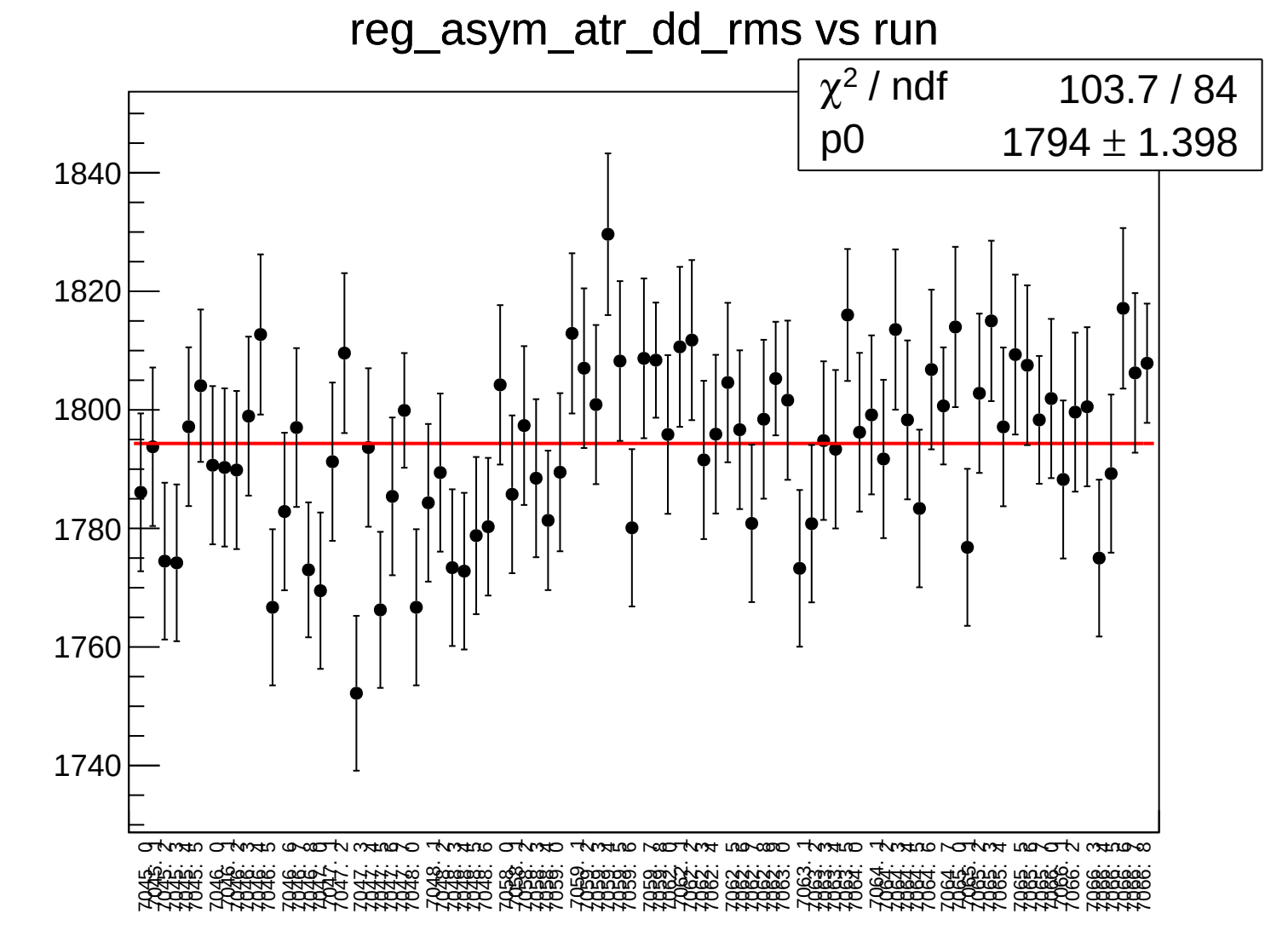

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.623e+04 / 84
p0 329.8 ± 0.2606
700
650
600
550
500
450
400
350
300
250

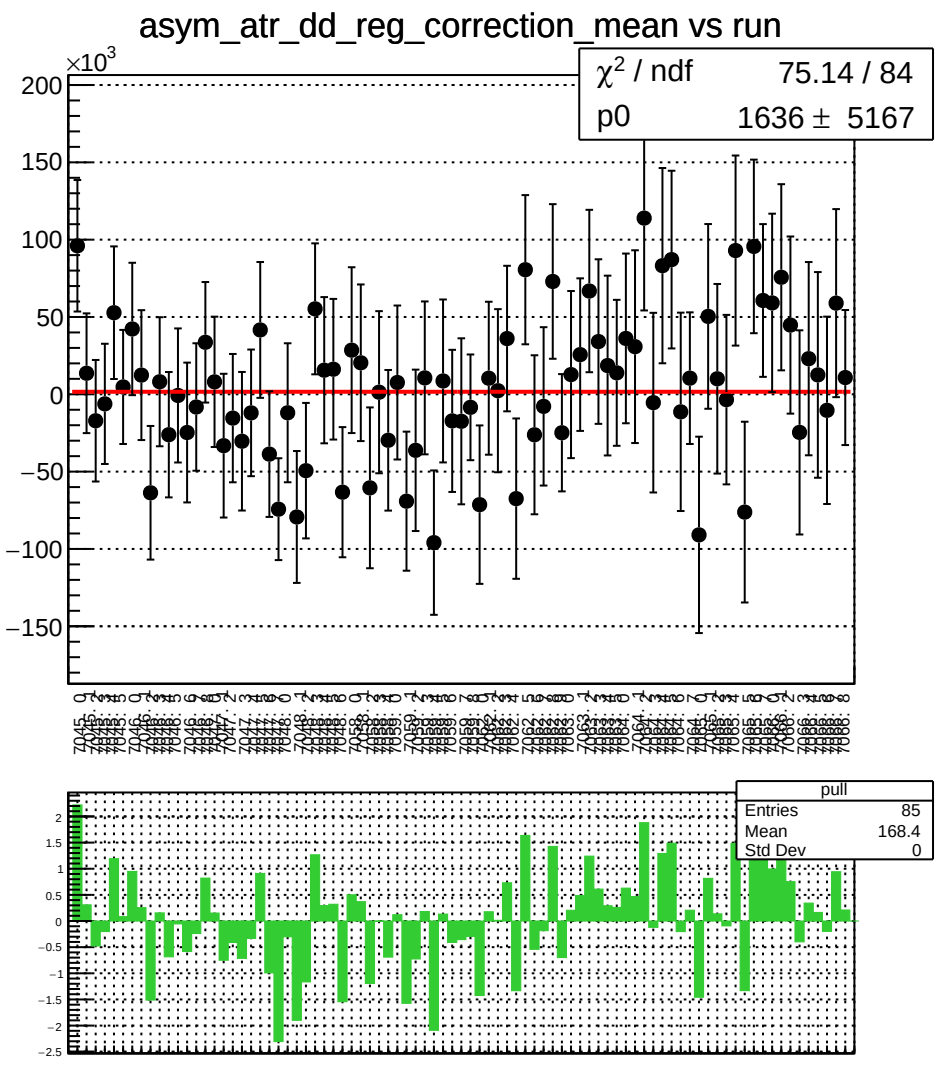

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.42 / 84
p0 4.583e−14 ± 9.632e−14
pull
Entries 85
Mean 22
Std Dev 10.09
pull1D
Entries 85
Mean 0.1087
Std Dev 1.02

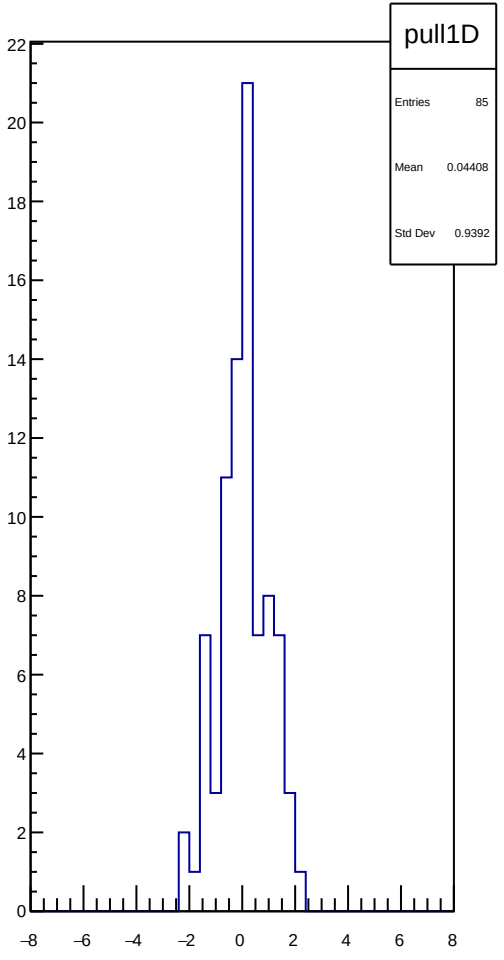

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.946e+05 / 84
p0 7.312e−11 ± 6.811e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

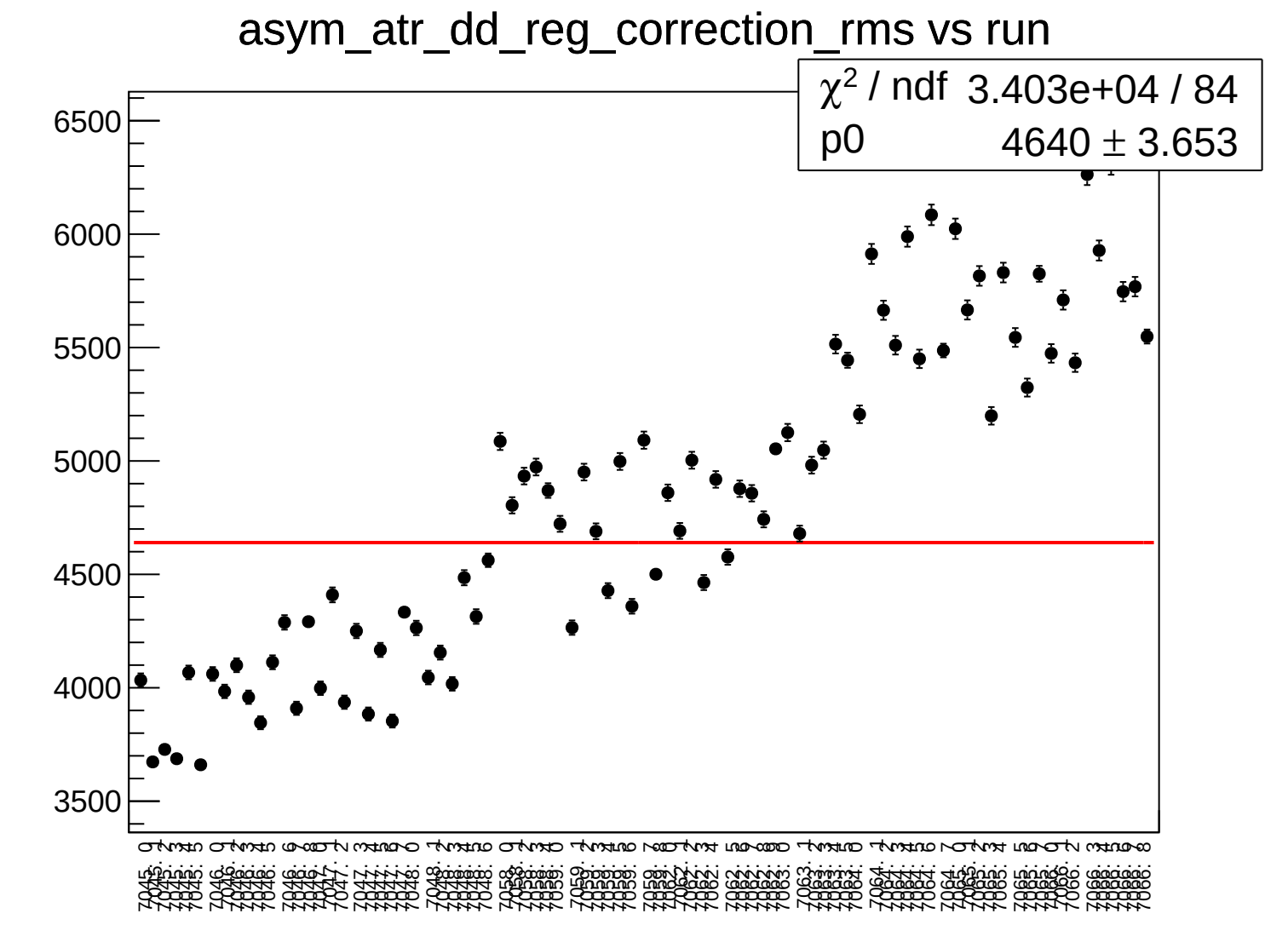

reg_asym_atr_dd_mean vs run
χ² / ndf 90.34 / 84
p0 −3141 ± 1977
pull
Entries 85
Mean −159.5
Std Dev 0

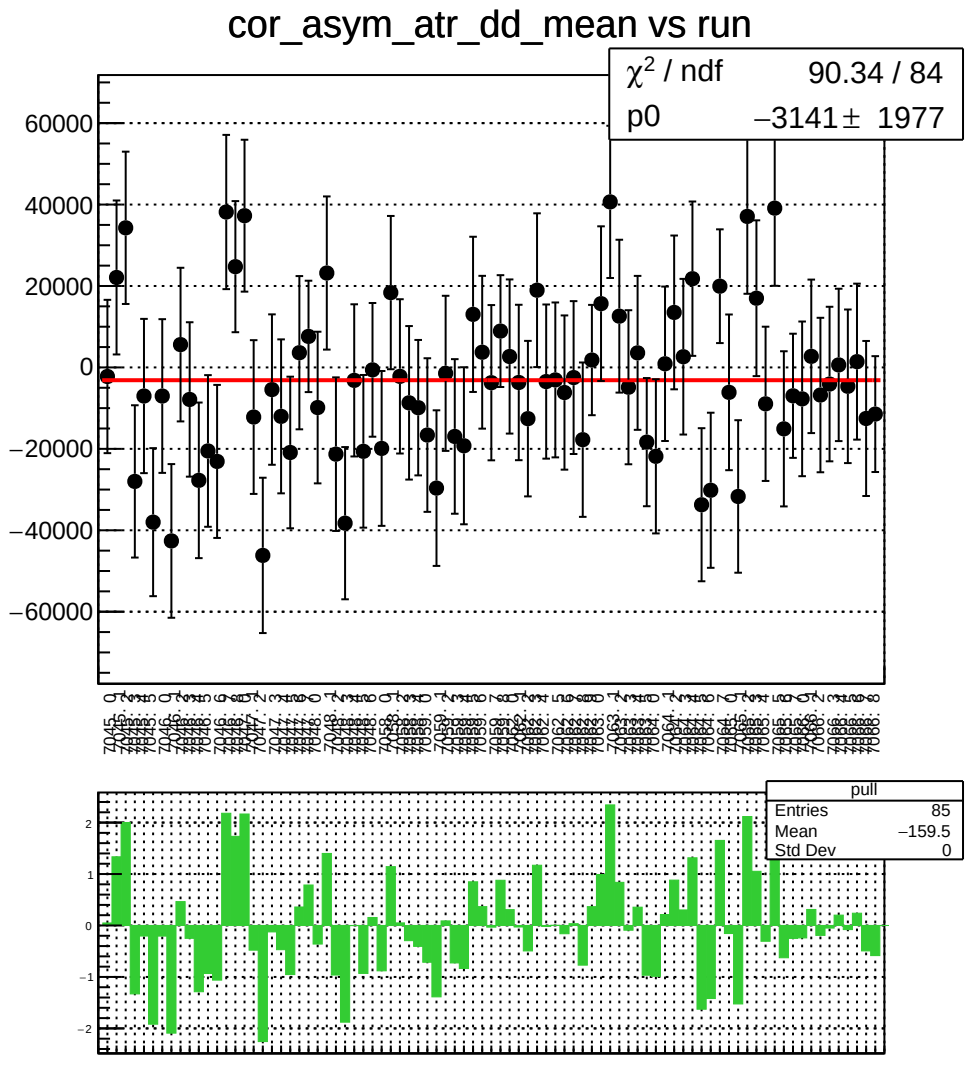

pull1D
Entries 85
Mean −0.01329
Std Dev 1.031

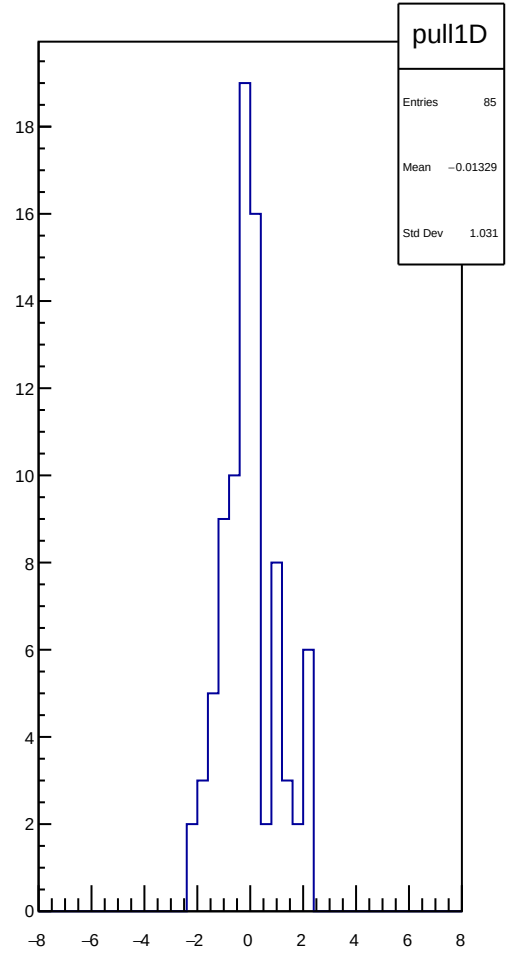

reg_asym_atr_dd_rms vs run
χ^2 / ndf 103.7 / 84
p0 1794 ± 1.398
1840
1820
1800
1780
1760
1740

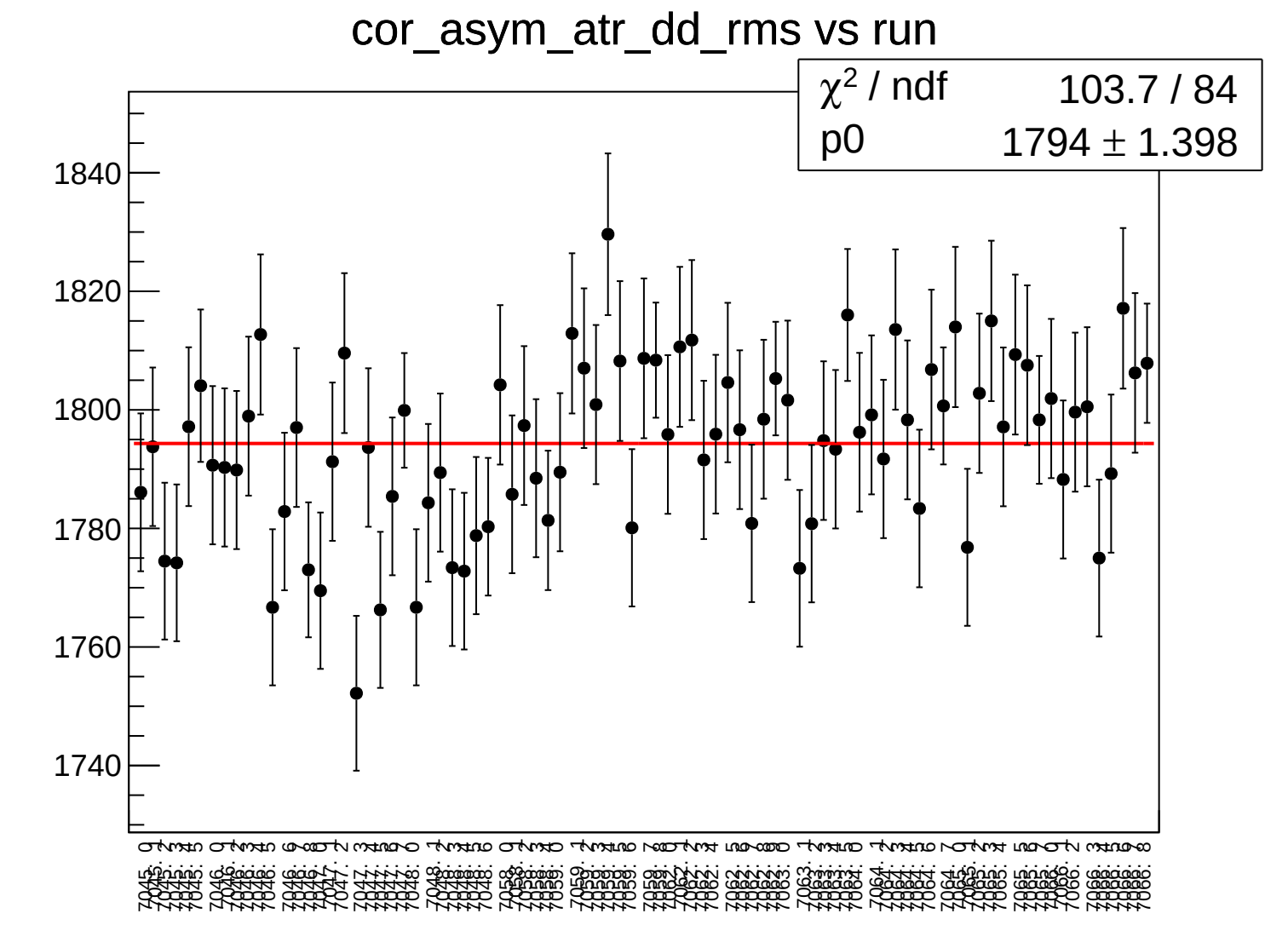

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 75.14 / 84
p0 1636 ± 5167
pull
Entries 85
Mean 168.4
Std Dev 0

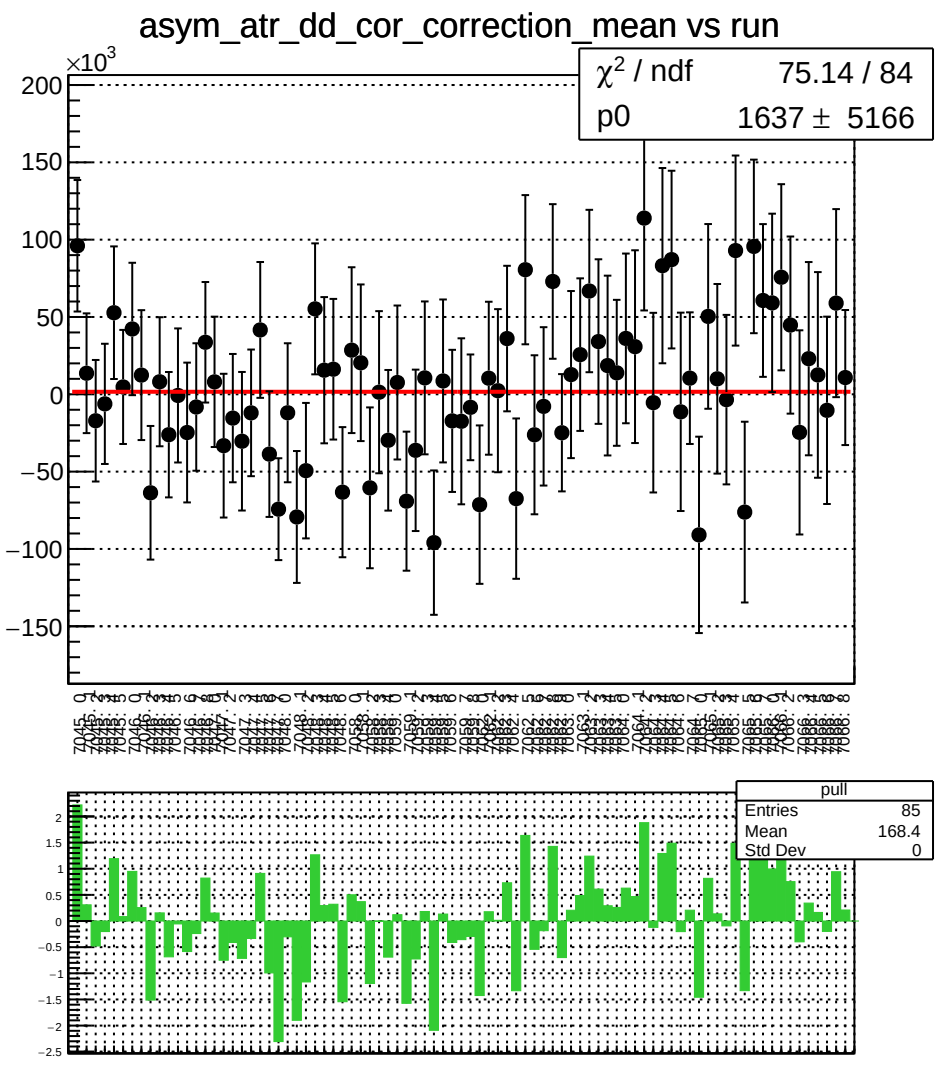

pull1D
Entries 85
Mean 0.04408
Std Dev 0.9392

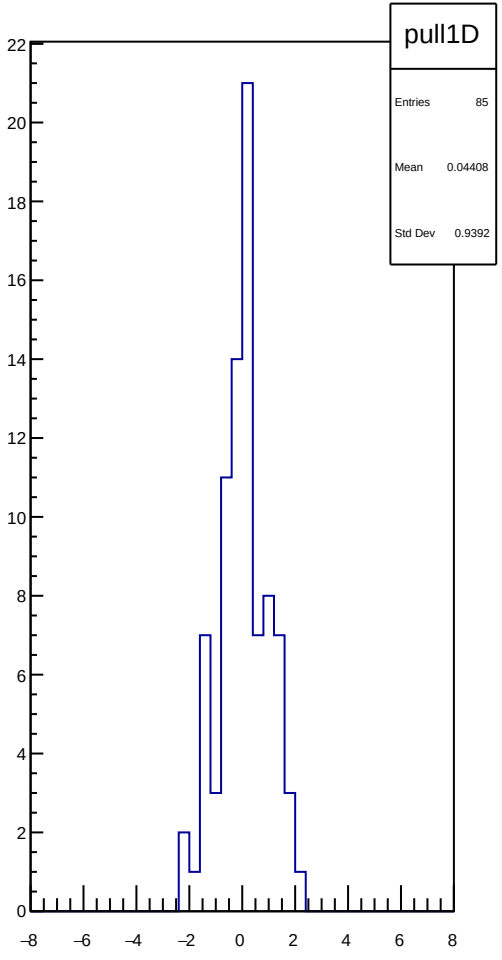

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3.403e+04 / 84
p0 4640 ± 3.653
6500
6000
5500
5000
4500
4000
3500

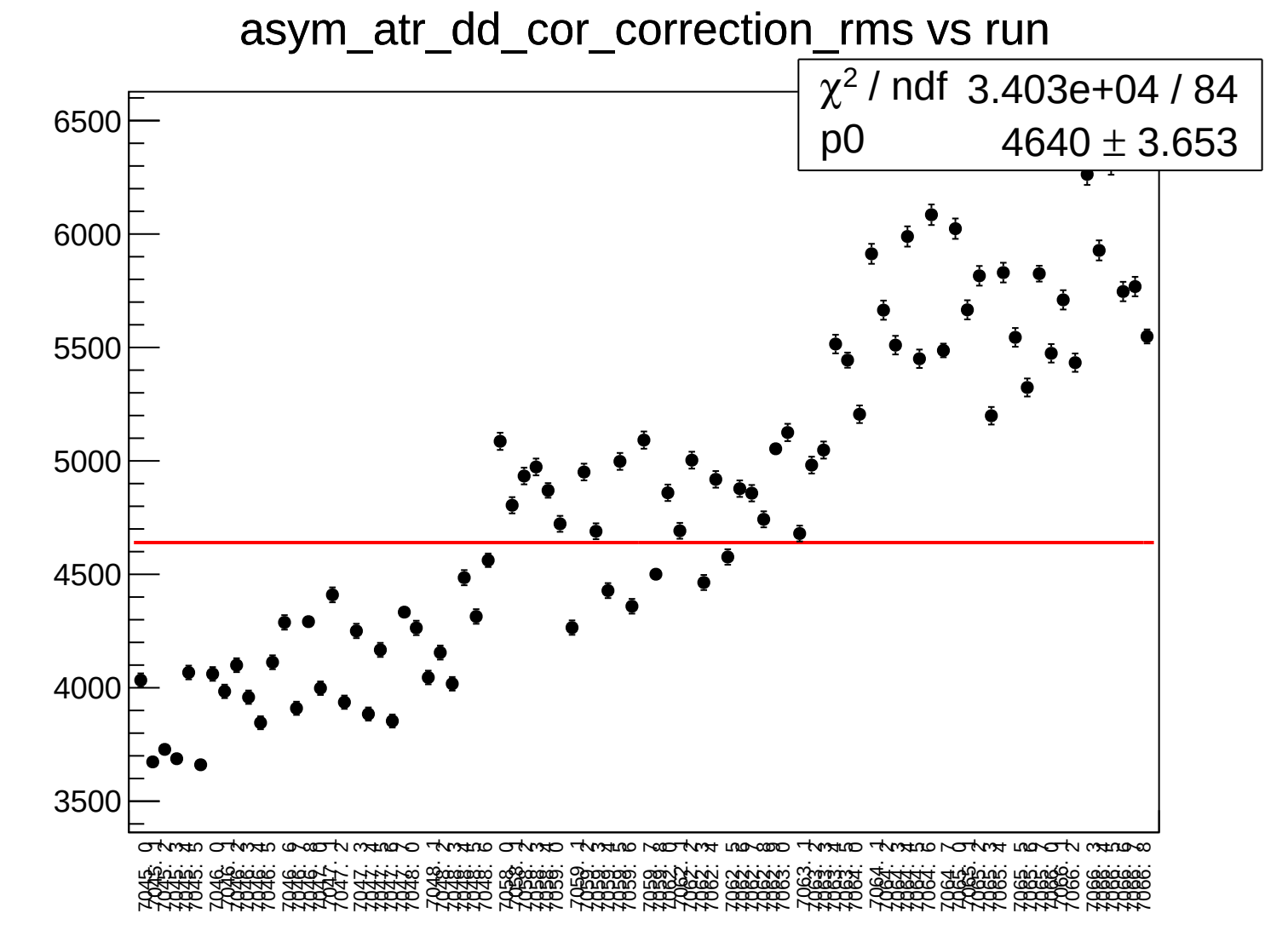

cor_asym_atr_dd_mean vs run
χ² / ndf 90.34 / 84
p0 −3141 ± 1977
pull
Entries 85
Mean −159.5
Std Dev 0

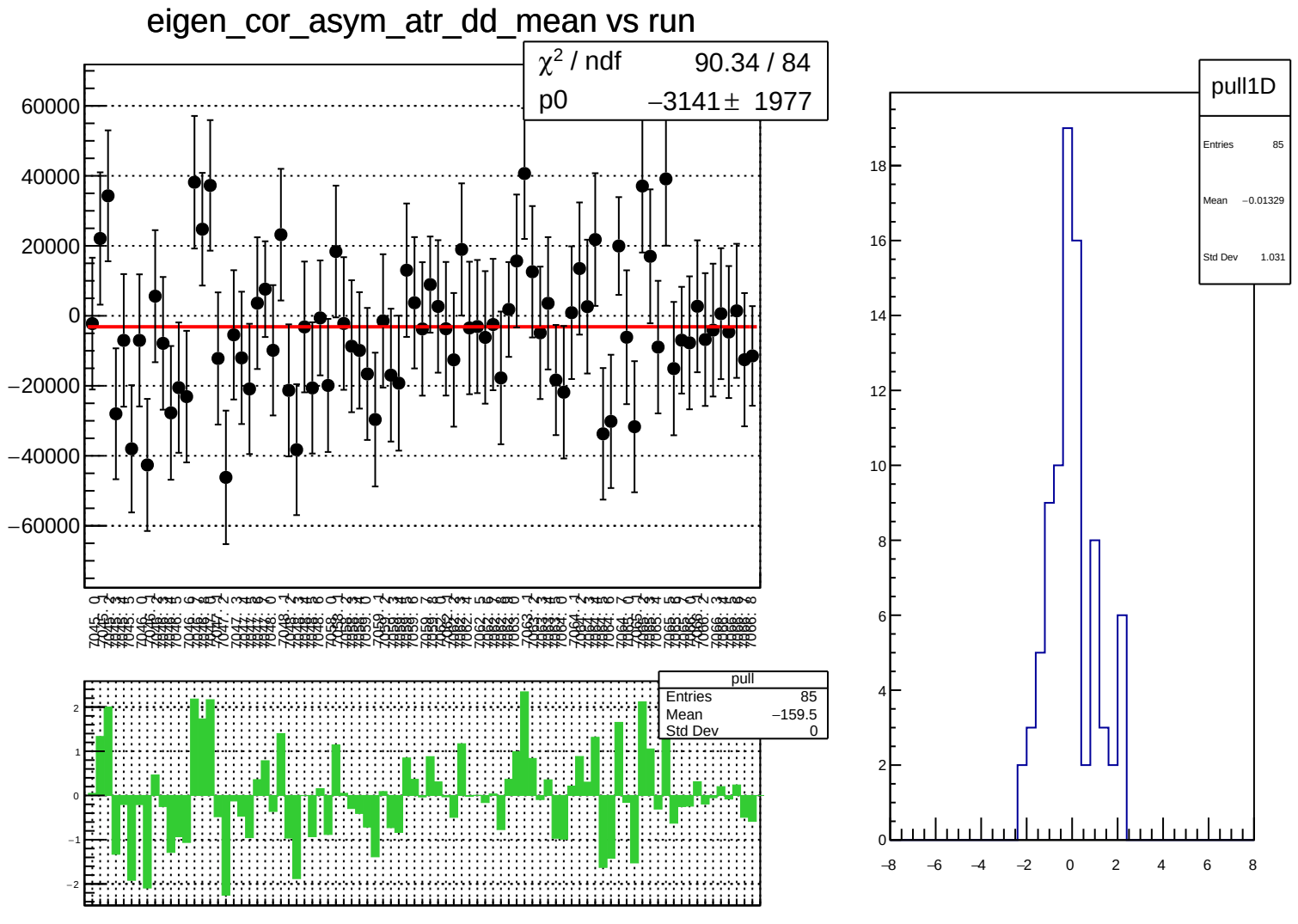

pull1D
Entries 85
Mean −0.01329
Std Dev 1.031

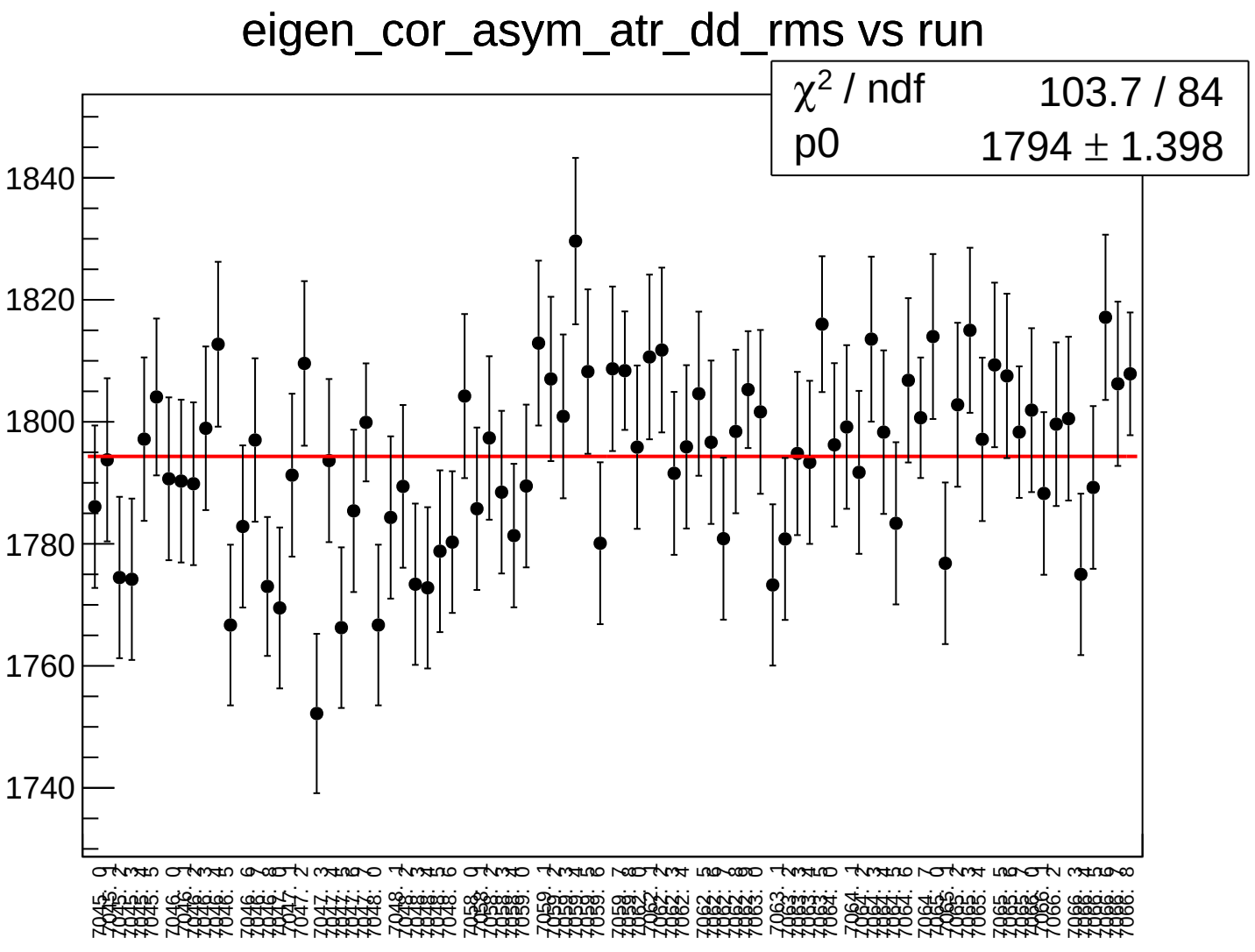

cor_asym_atr_dd_rms vs run
χ^2 / ndf 103.7 / 84
p0 1794 ± 1.398
1840
1820
1800
1780
1760
1740

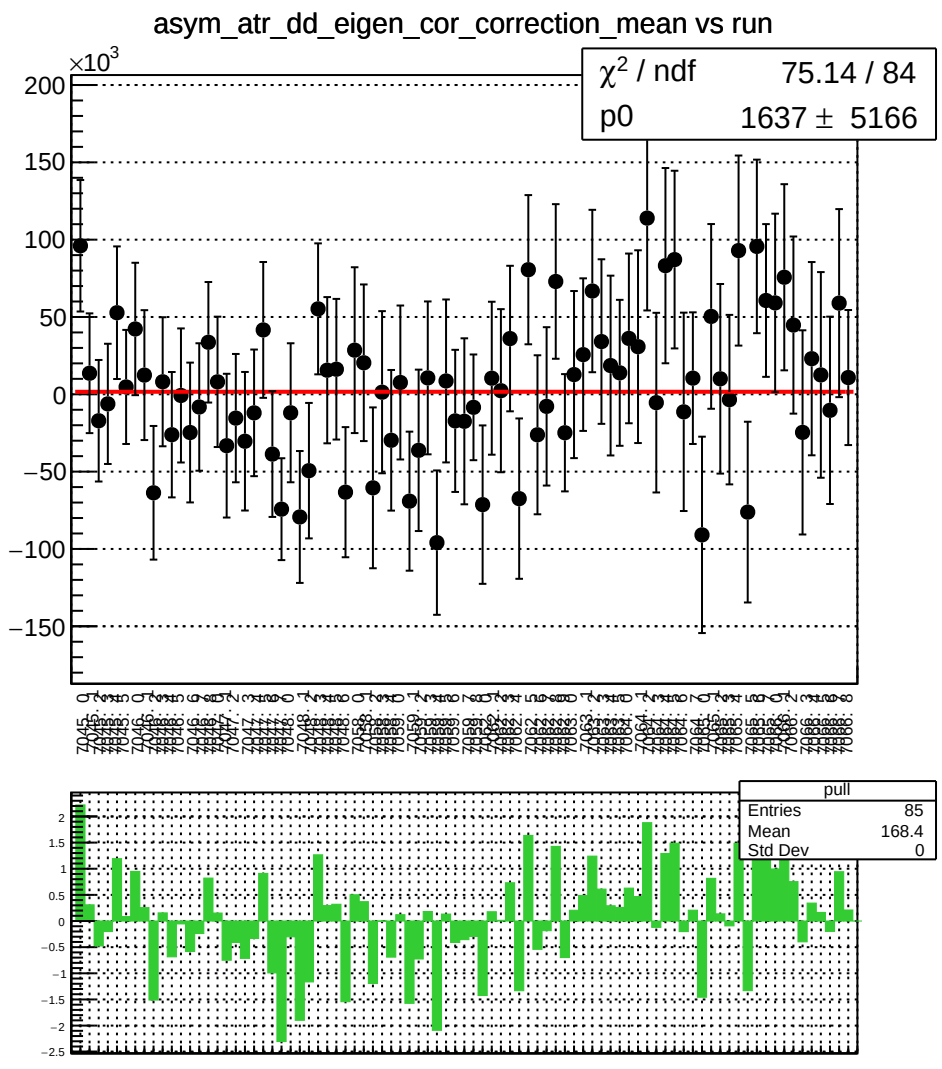

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 75.14 / 84
p0 1637 ± 5166
pull
Entries 85
Mean 168.4
Std Dev 0

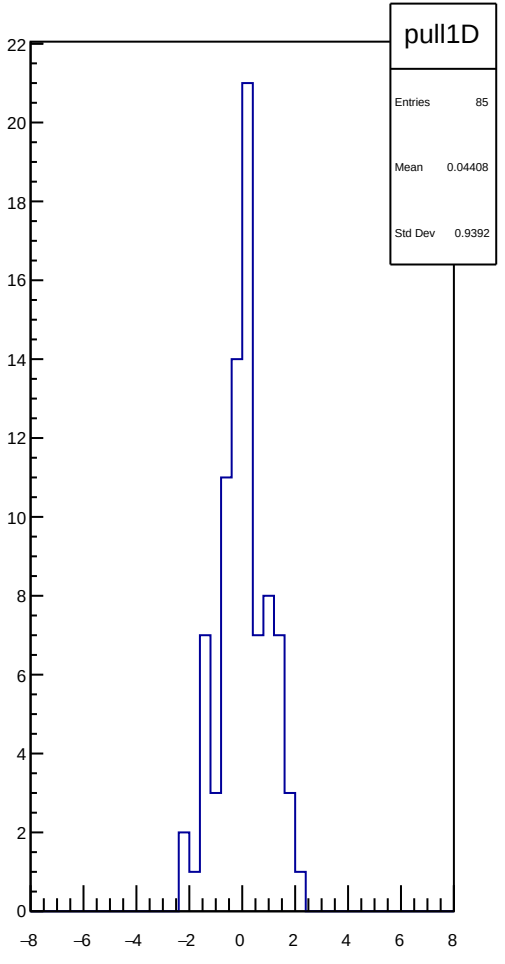

pull1D
Entries 85
Mean 0.04408
Std Dev 0.9392

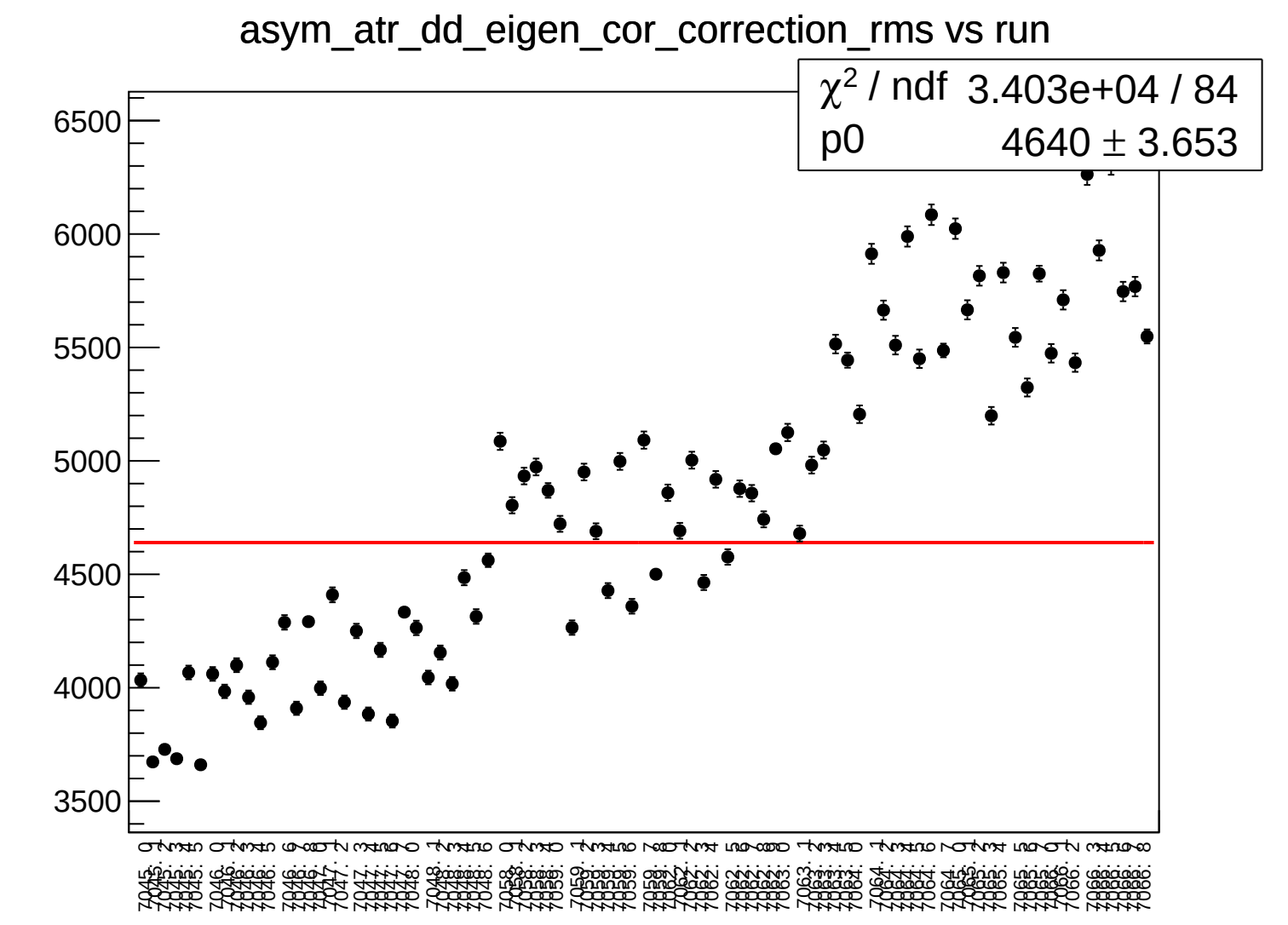

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3.403e+04 / 84
p0 4640 ± 3.653
6500
6000
5500
5000
4500
4000
3500

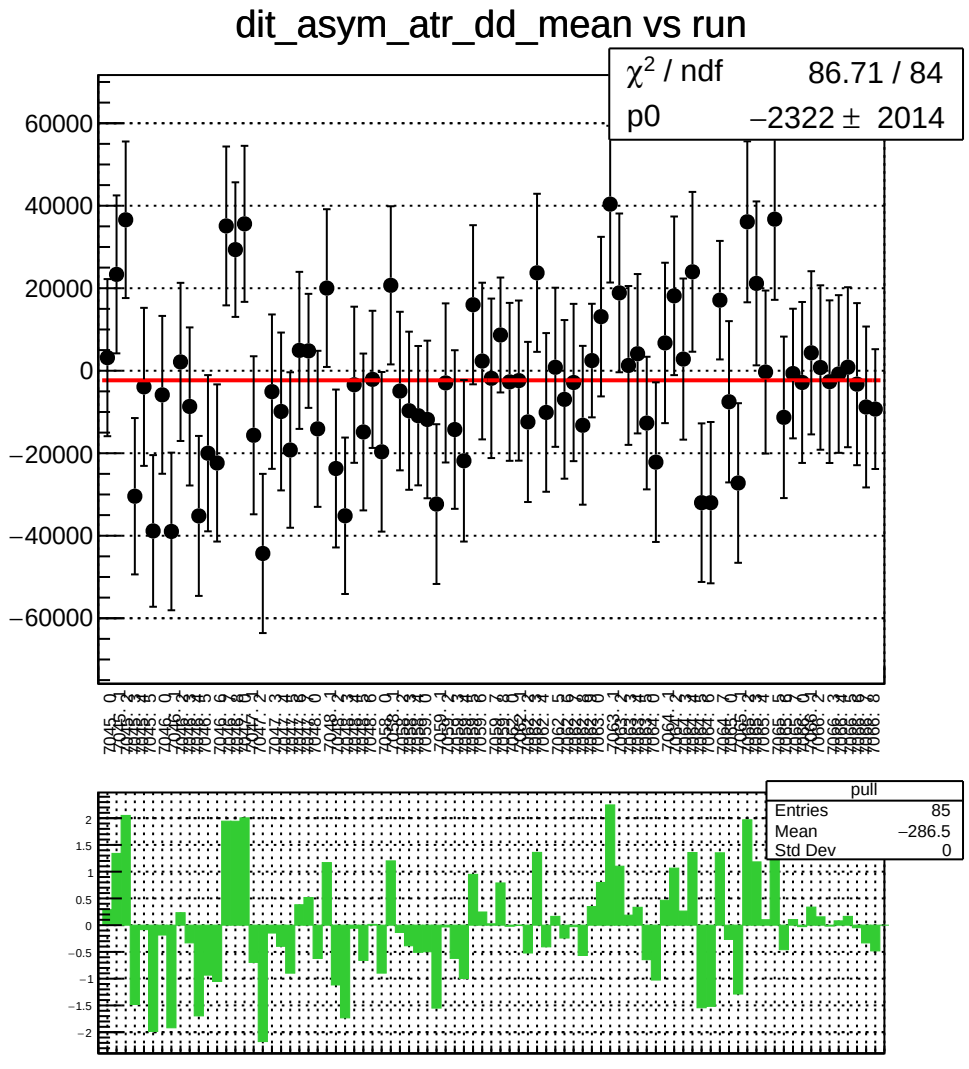

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 90.34 / 84
p0 −3141 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −159.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01329
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

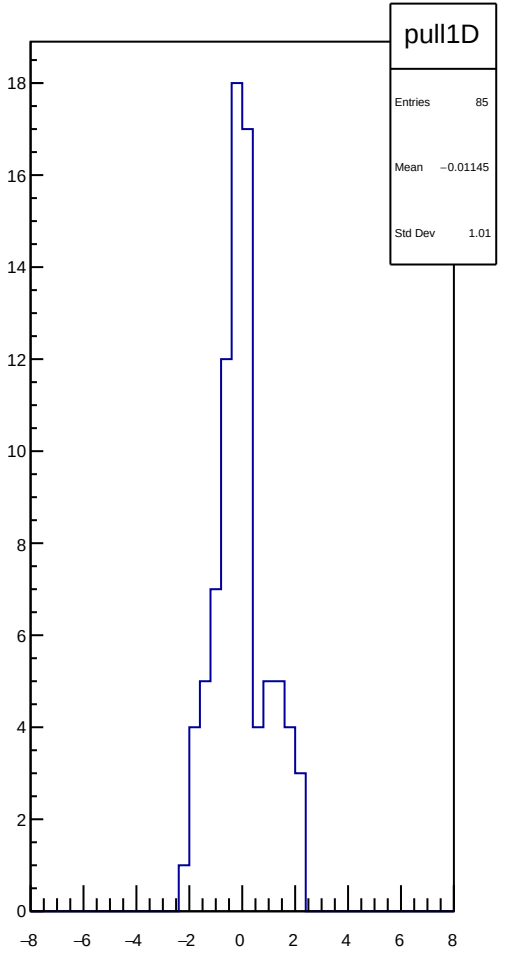

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 103.7 / 84
p0 1794 ± 1.398
1840
1820
1800
1780
1760
1740

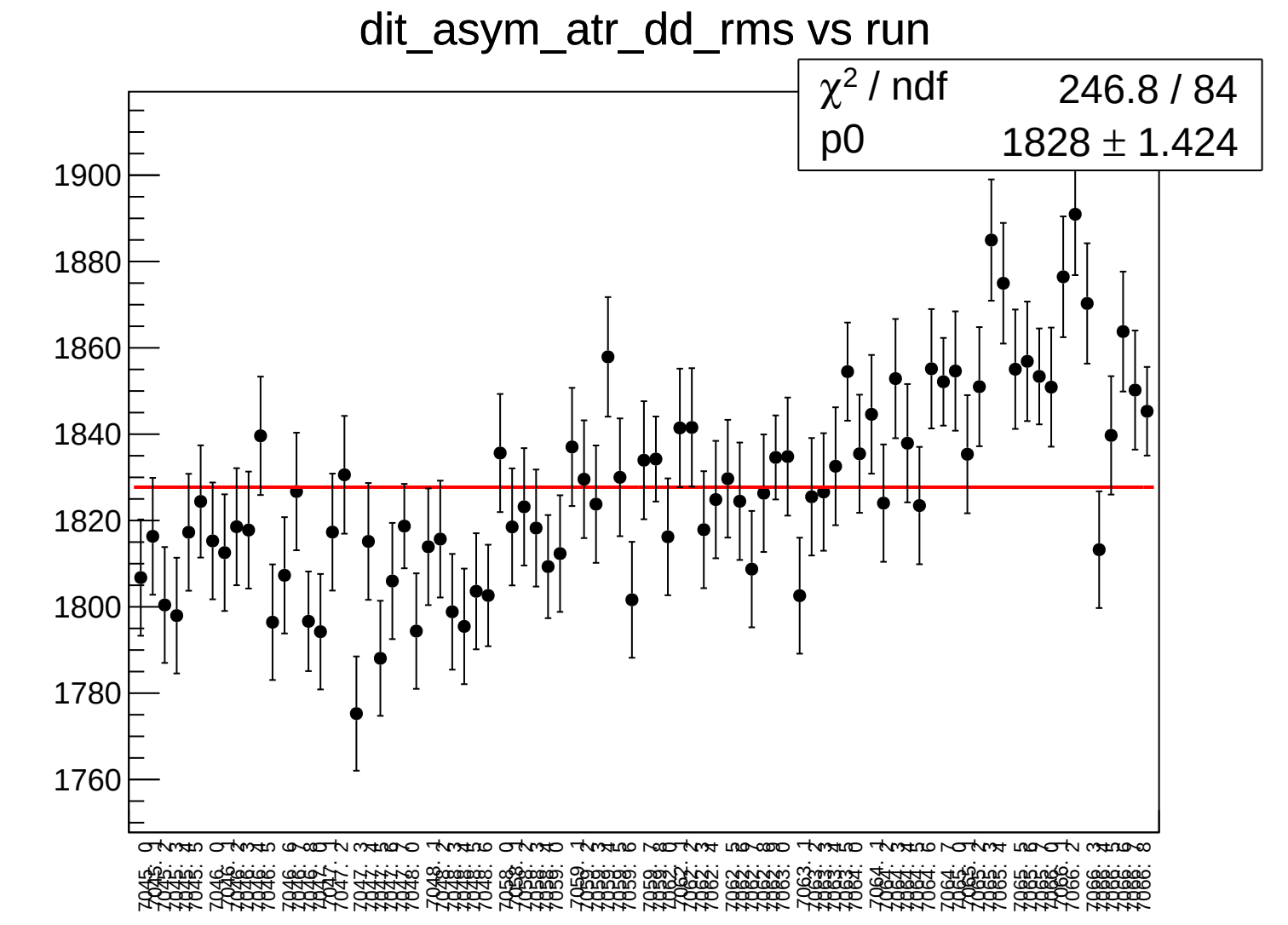

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.14 / 84
p0 1637 ± 5166
pull
Entries 85
Mean 168.4
Std Dev 0

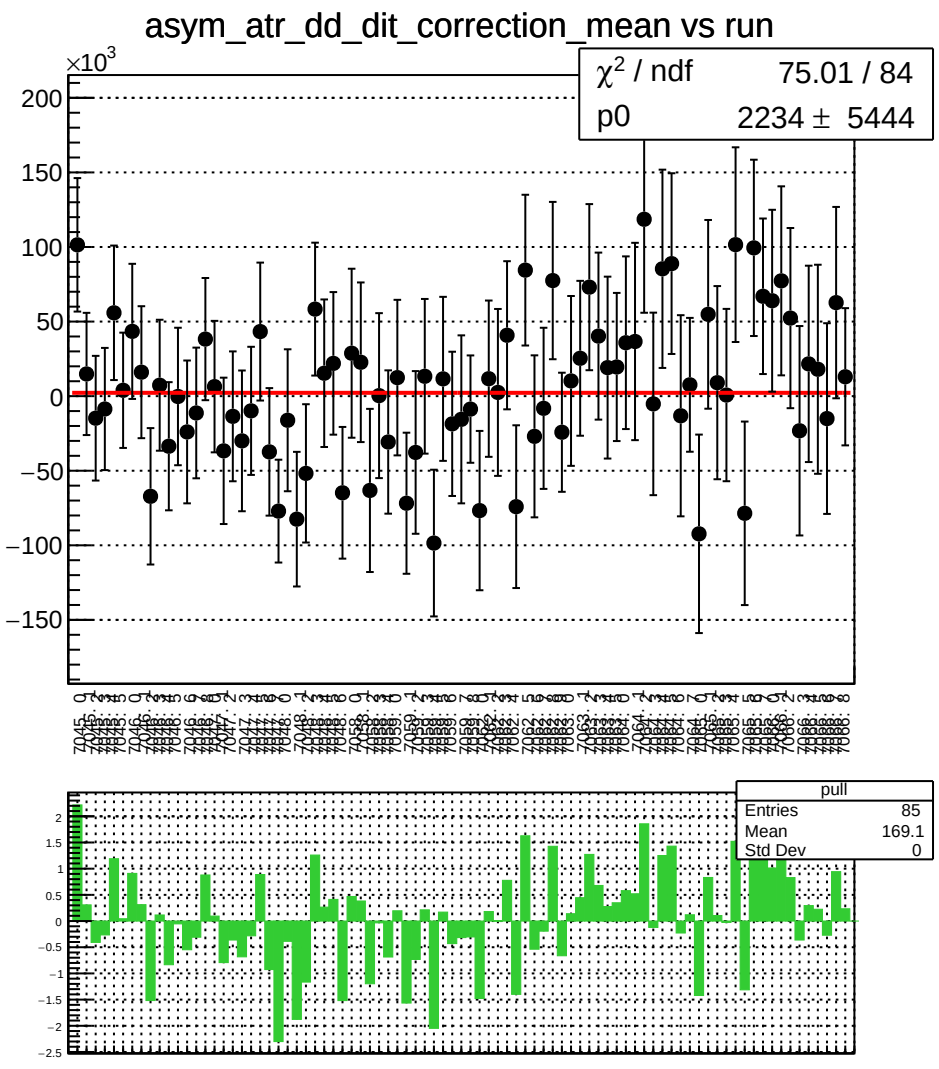

pull1D
Entries 85
Mean 0.04408
Std Dev 0.9392

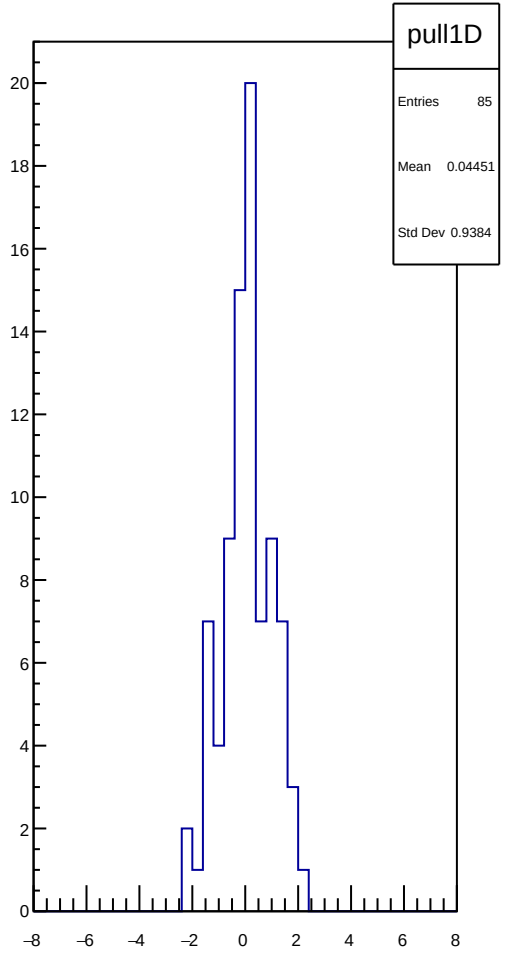

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.403e+04 / 84
p0 4640 ± 3.653
6500
6000
5500
5000
4500
4000
3500

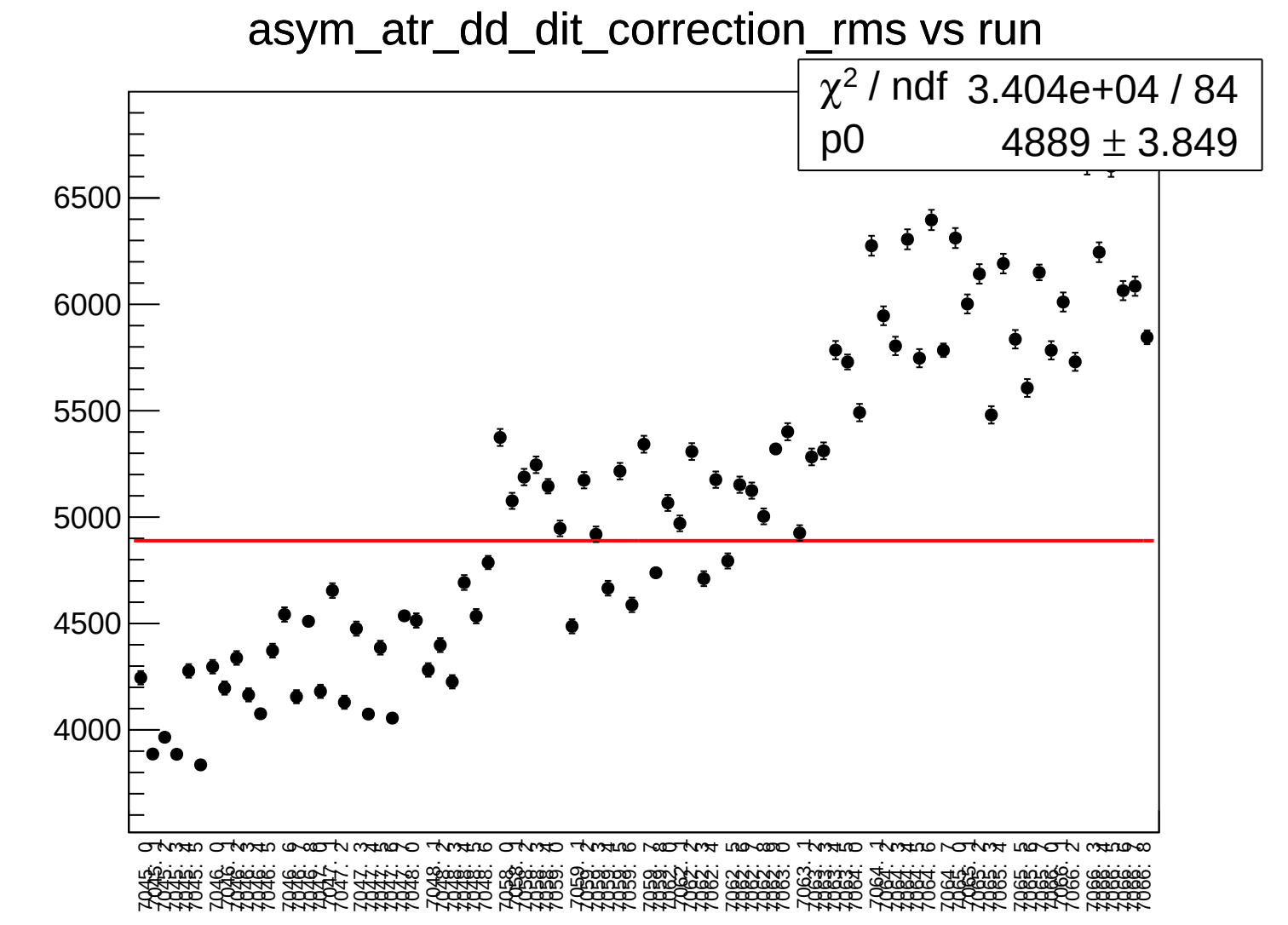

dit_asym_atr_dd_mean vs run
χ² / ndf 86.71 / 84
p0 −2322 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −286.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

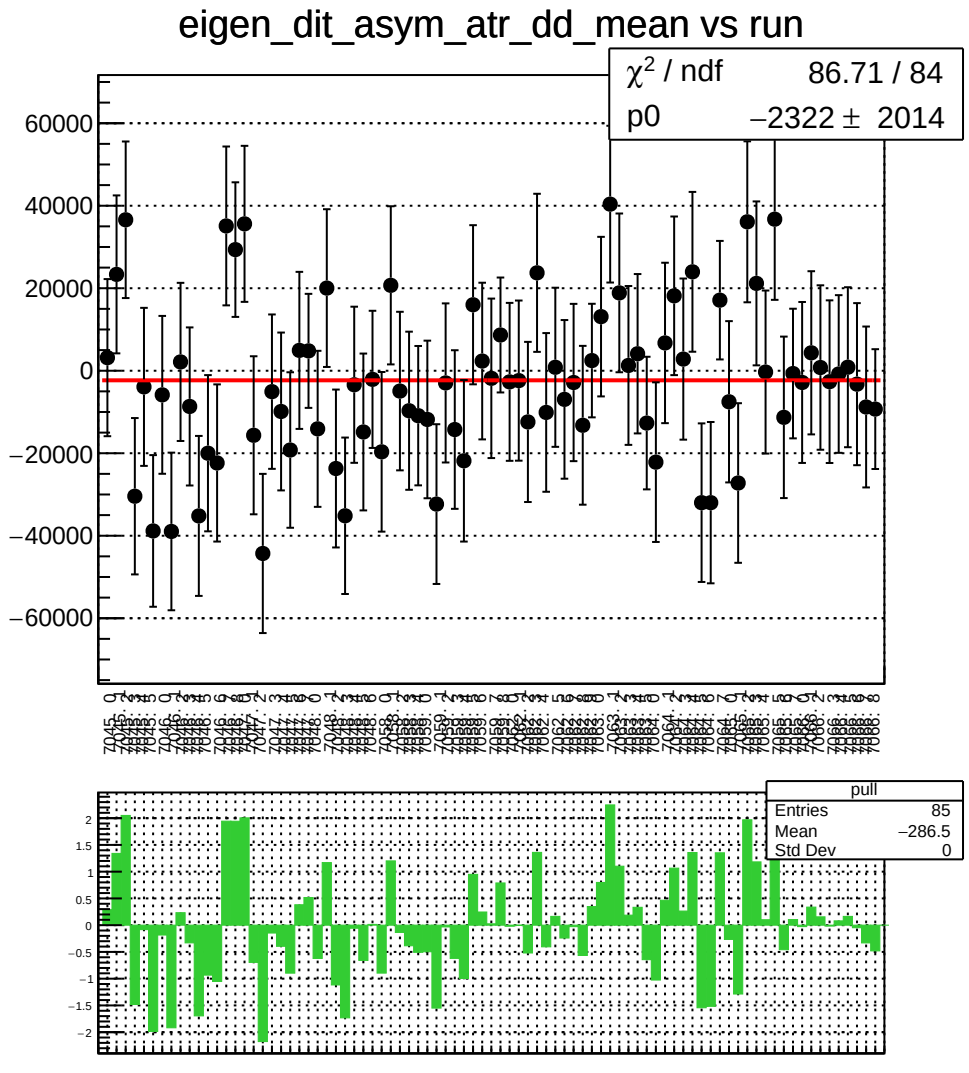

pull1D
Entries 85
Mean −0.01145
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

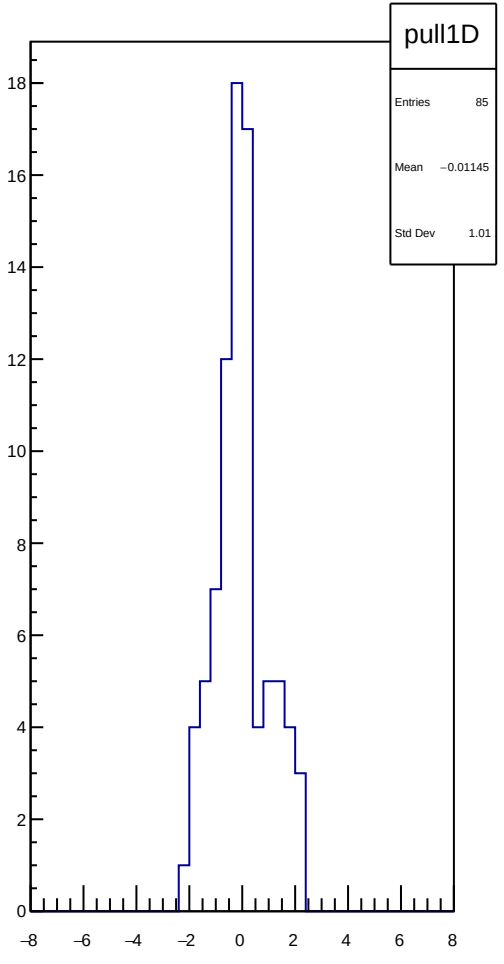

dit_asym_atr_dd_rms vs run
χ² / ndf 246.8 / 84
p0 1828 ± 1.424
1900
1880
1860
1840
1820
1800
1780
1760

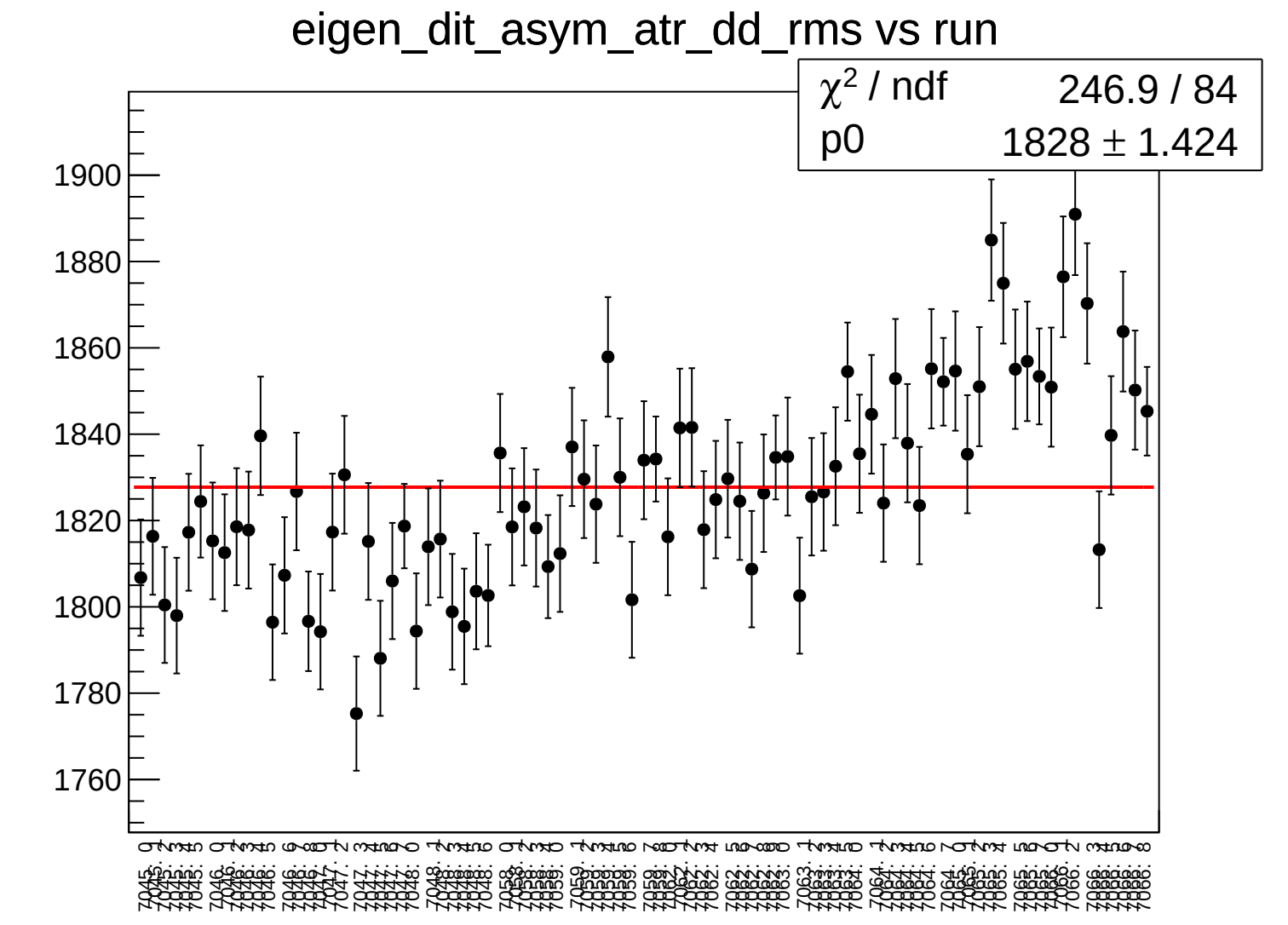

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 75.01 / 84
p0 2234 ± 5444
pull
Entries 85
Mean 169.1
Std Dev 0

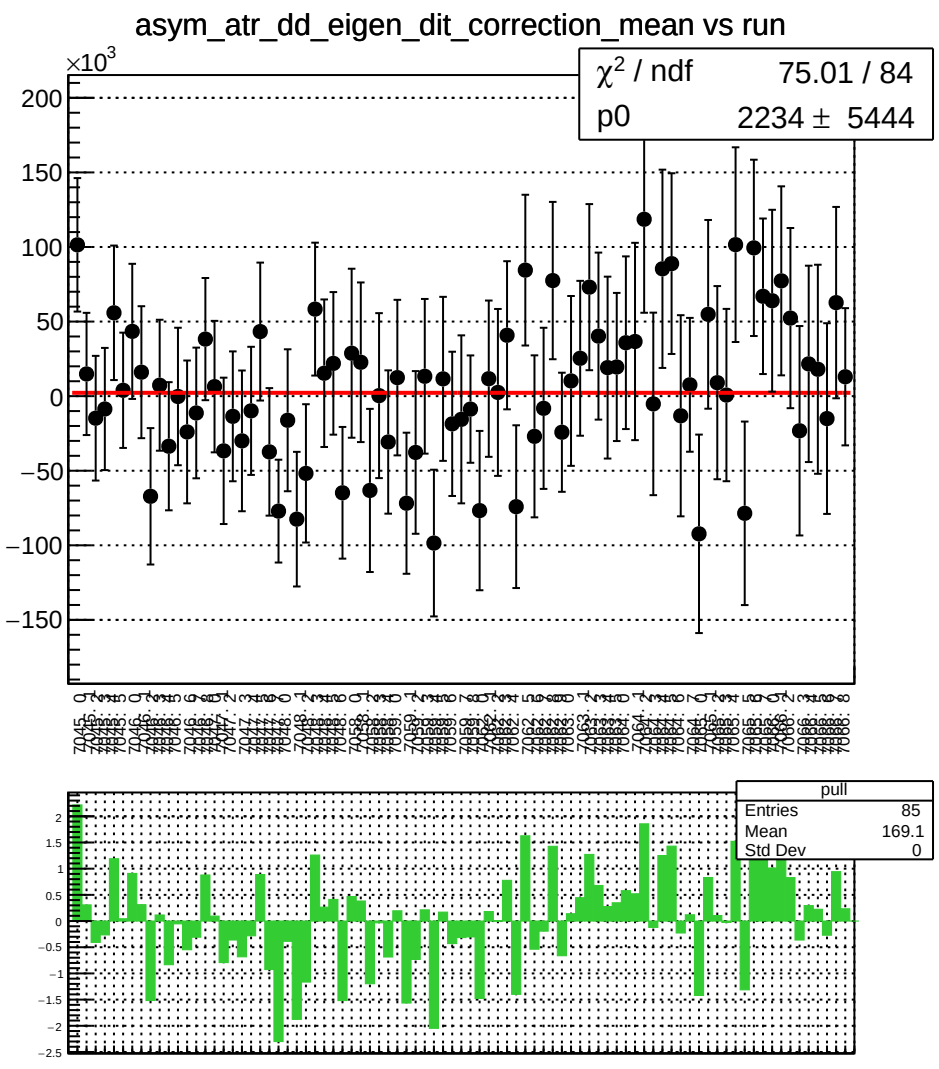

pull1D
Entries 85
Mean 0.04451
Std Dev 0.9384

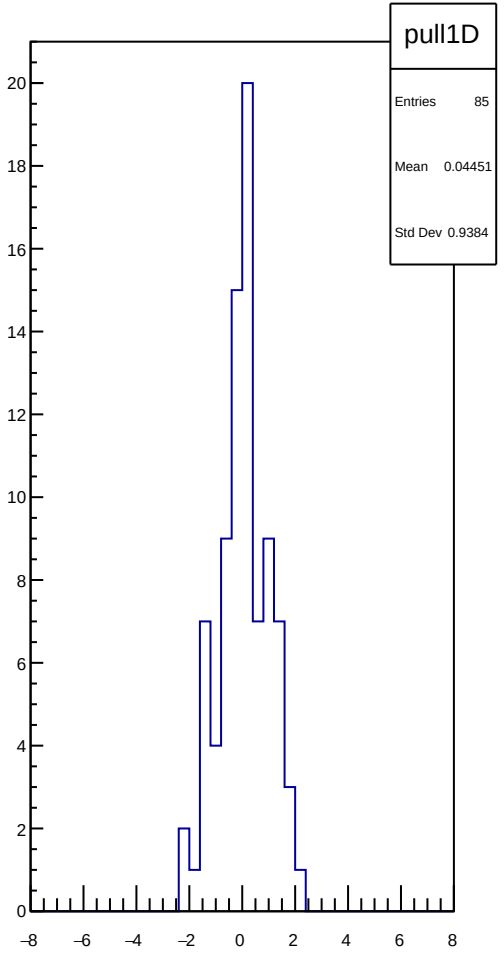

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3.404e+04 / 84
p0 4889 ± 3.849
6500
6000
5500
5000
4500
4000

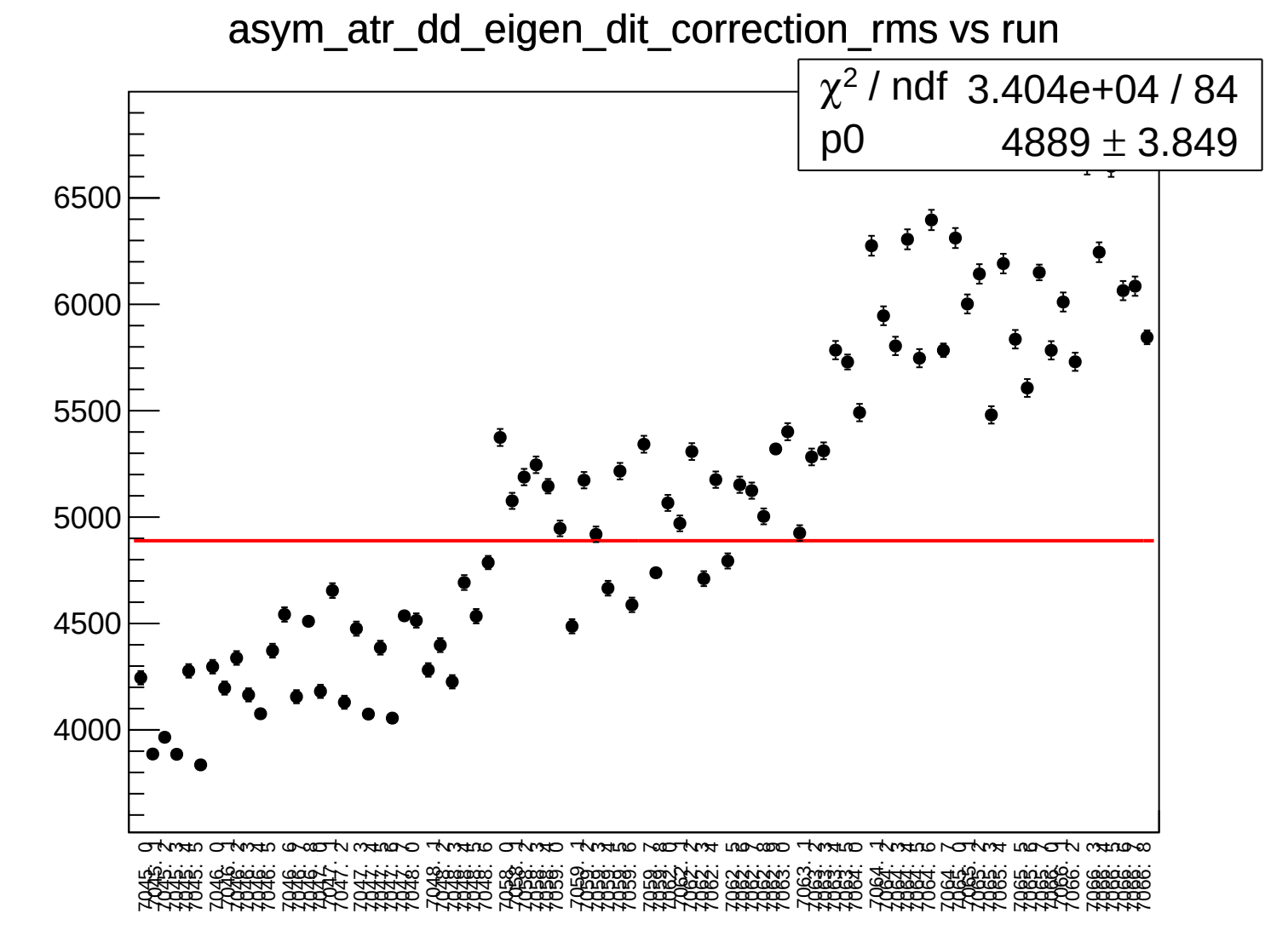

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 86.71 / 84
p0 −2322 ± 2014
pull
Entries 85
Mean −286.5
Std Dev 0

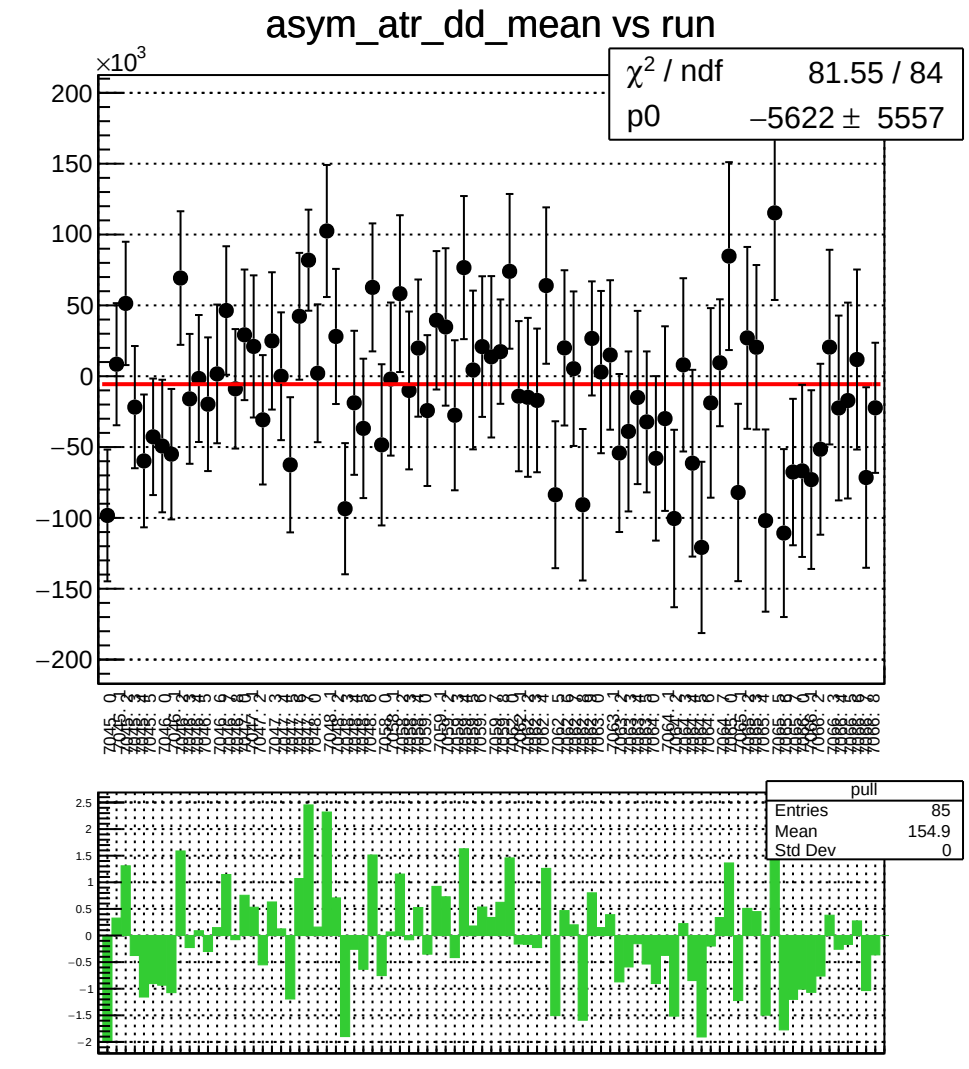

pull1D
Entries 85
Mean −0.01145
Std Dev 1.01

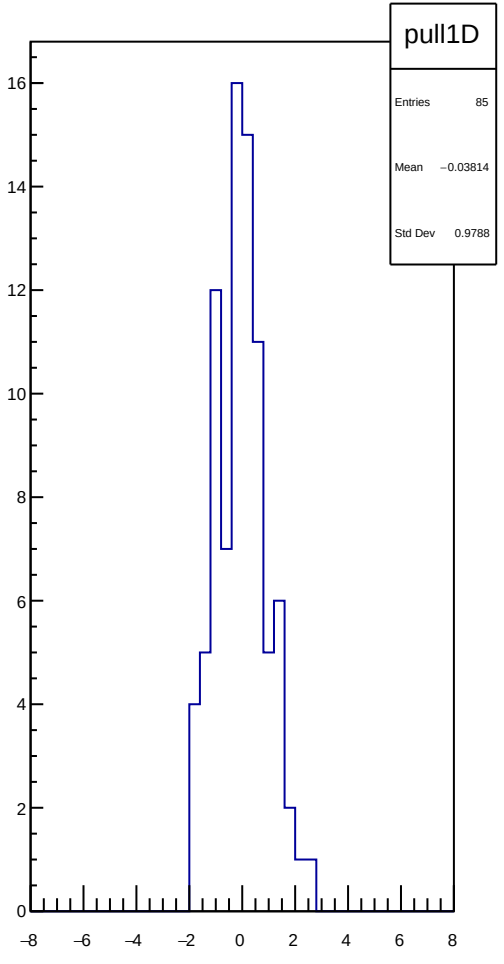

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 246.9 / 84
p0 1828 ± 1.424
1900
1880
1860
1840
1820
1800
1780
1760

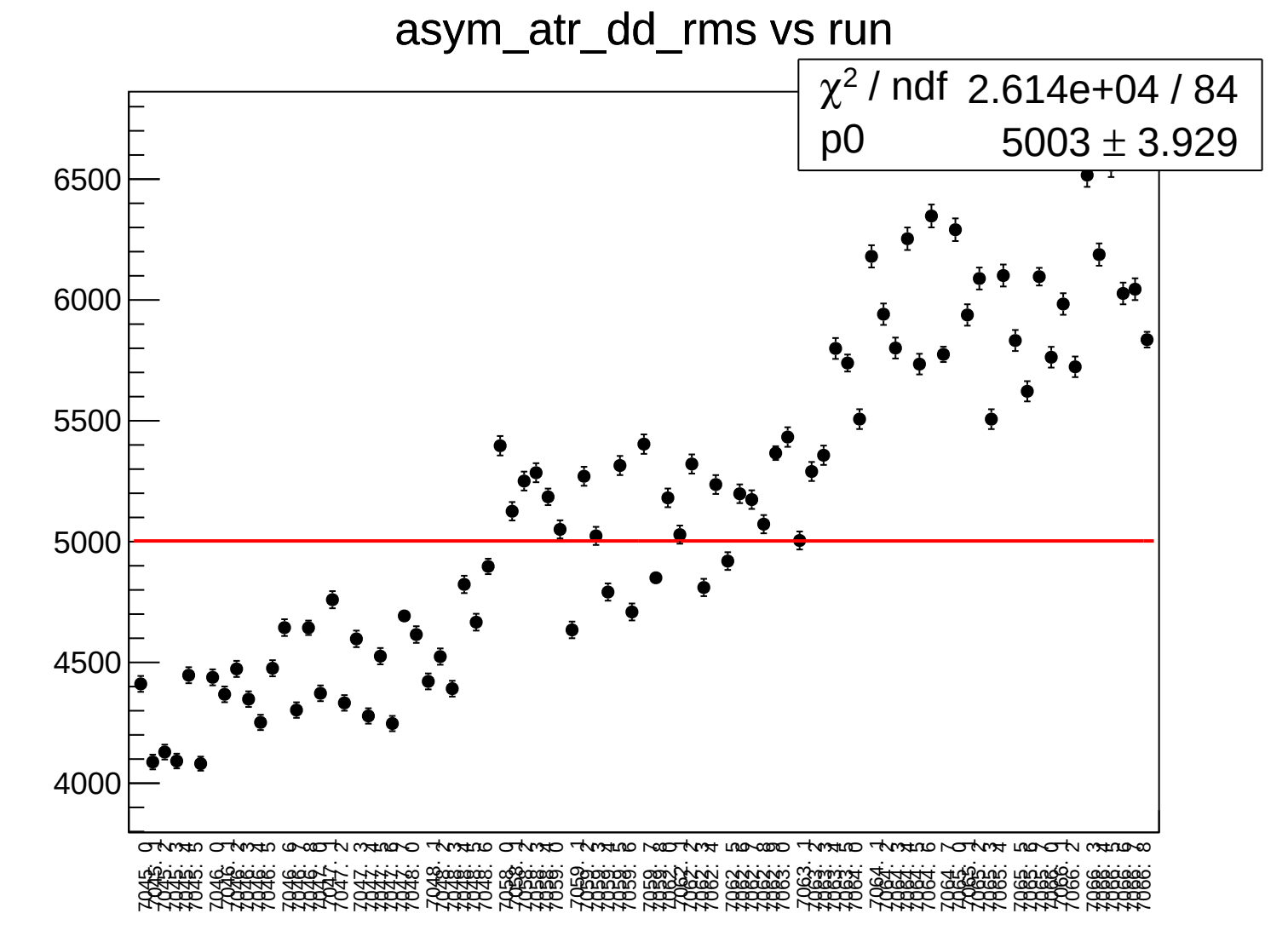

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.01 / 84
p0 2234 ± 5444
pull
Entries 85
Mean 169.1
Std Dev 0

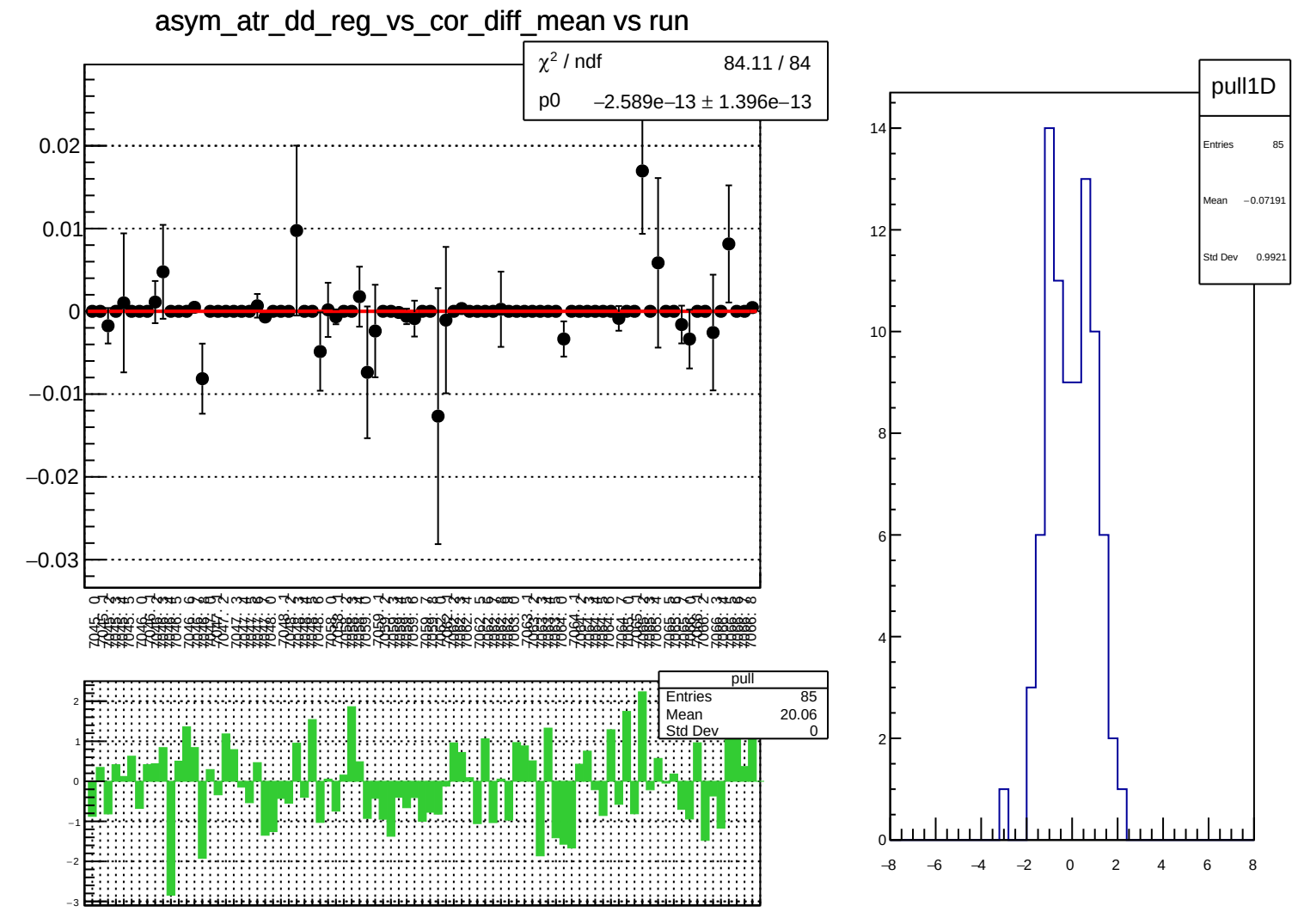

pull1D
Entries 85
Mean 0.04451
Std Dev 0.9384

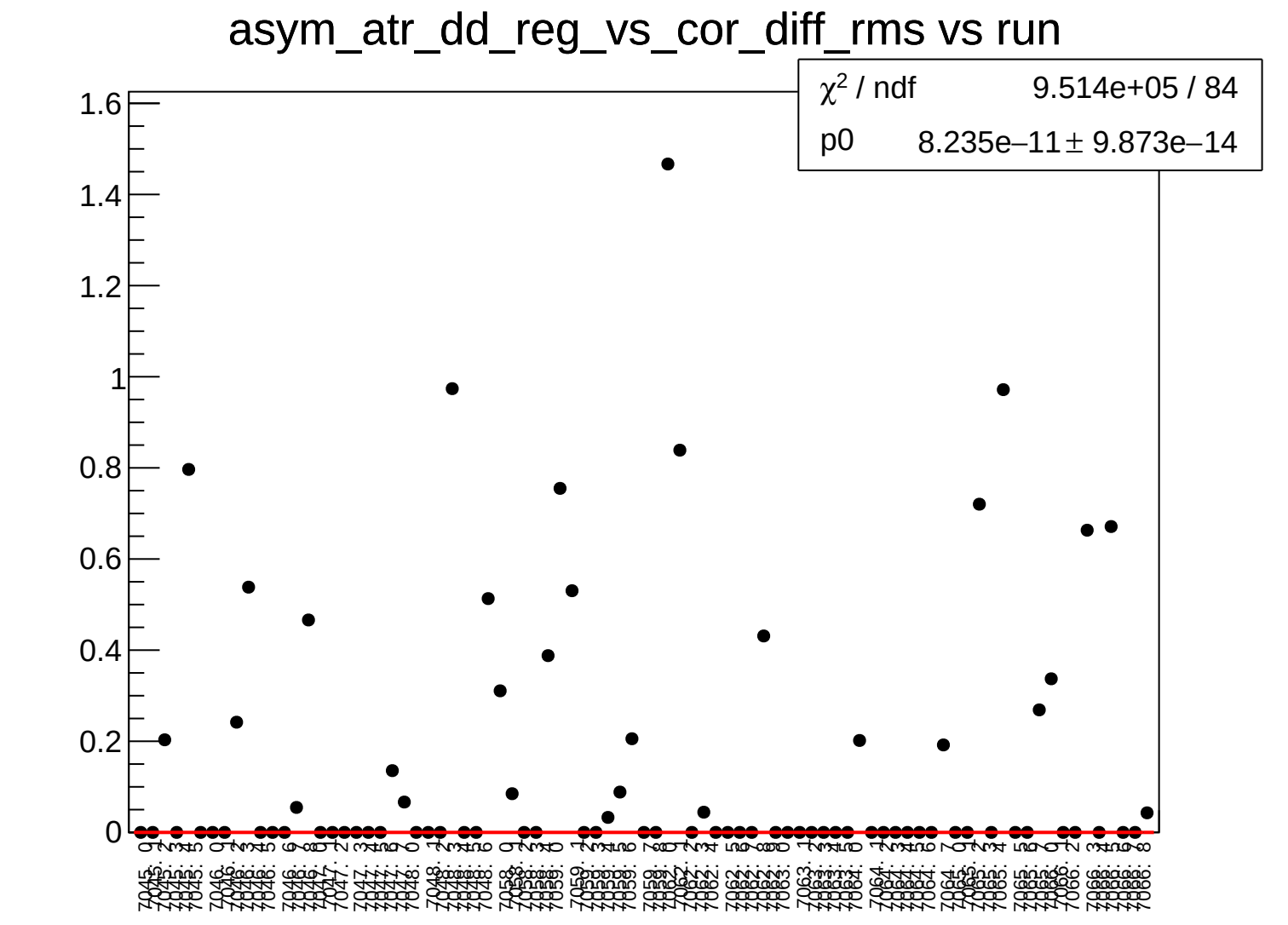

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.404e+04 / 84
p0 4889 ± 3.849
6500
6000
5500
5000
4500
4000

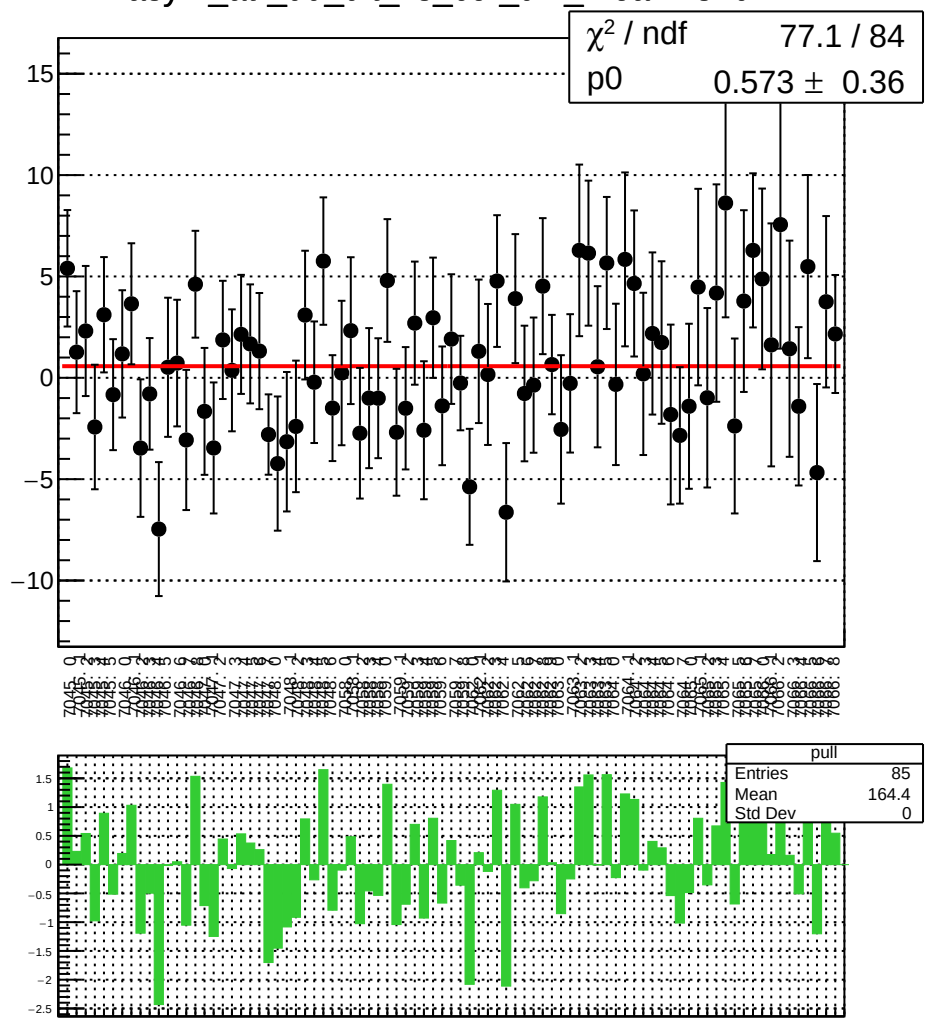

asym_atr_dd_mean vs run
×10^3
χ² / ndf 81.55 / 84
p0 −5622 ± 5557
pull
Entries 85
Mean 154.9
Std Dev 0

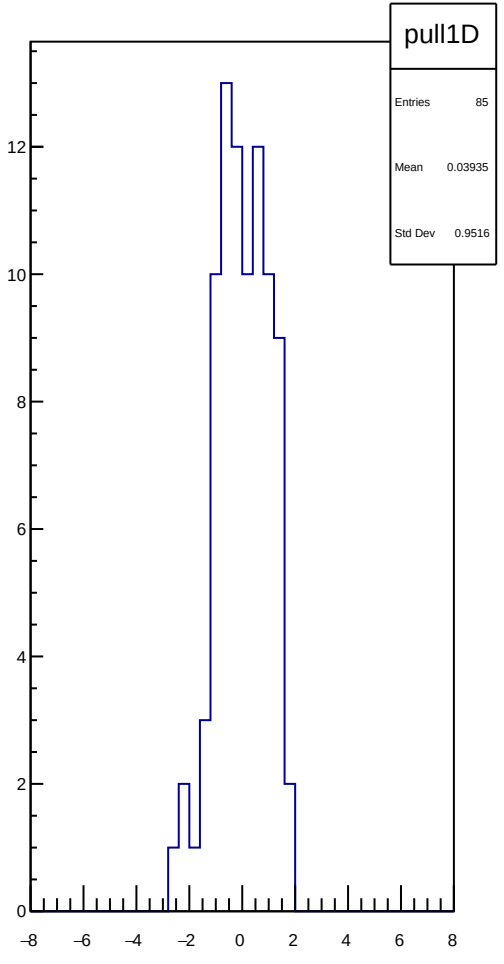

pull1D
Entries 85
Mean −0.03814
Std Dev 0.9788

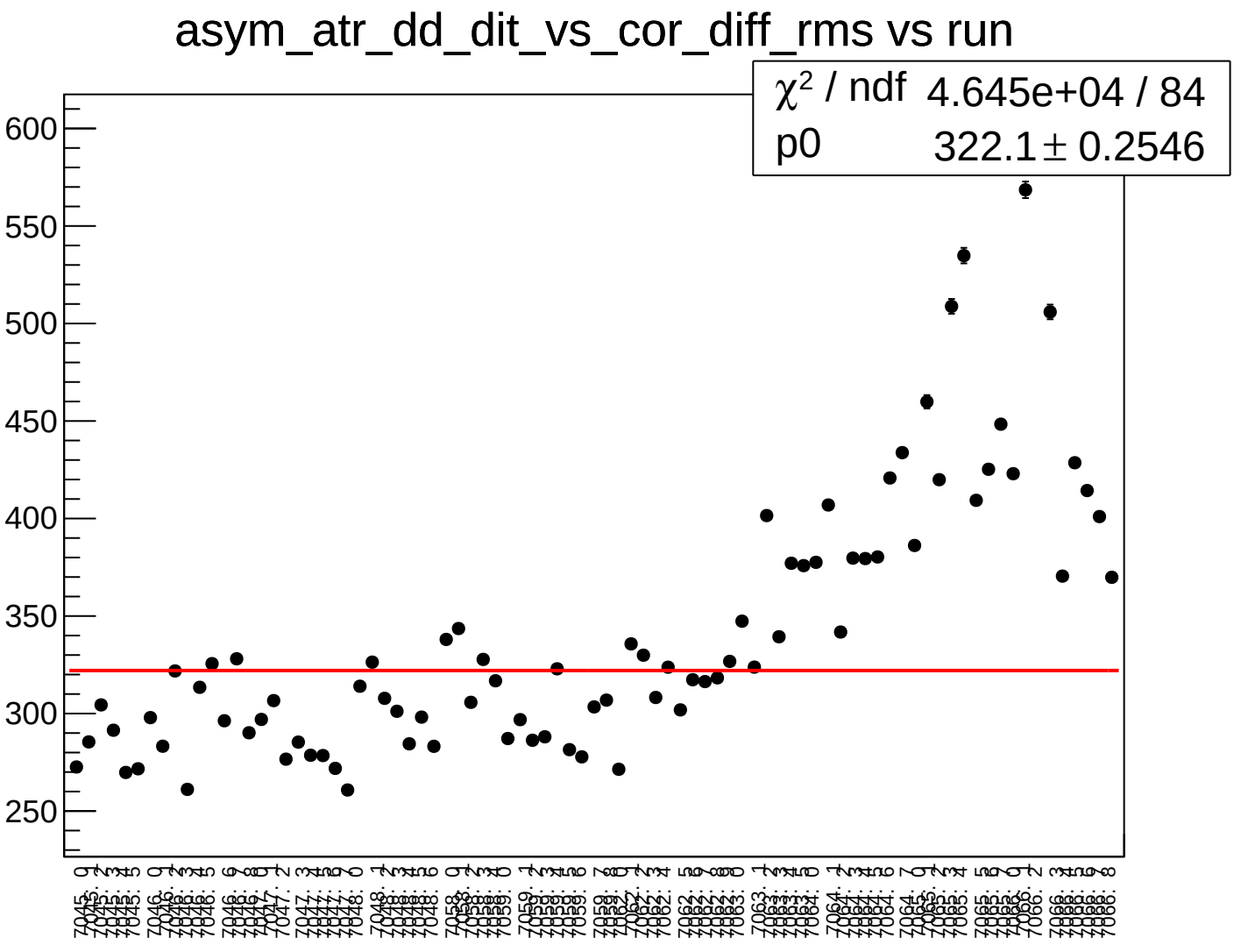

asym_atr_dd_rms vs run
χ² / ndf 2.614e+04 / 84
p0 5003 ± 3.929
6500
6000
5500
5000
4500
4000

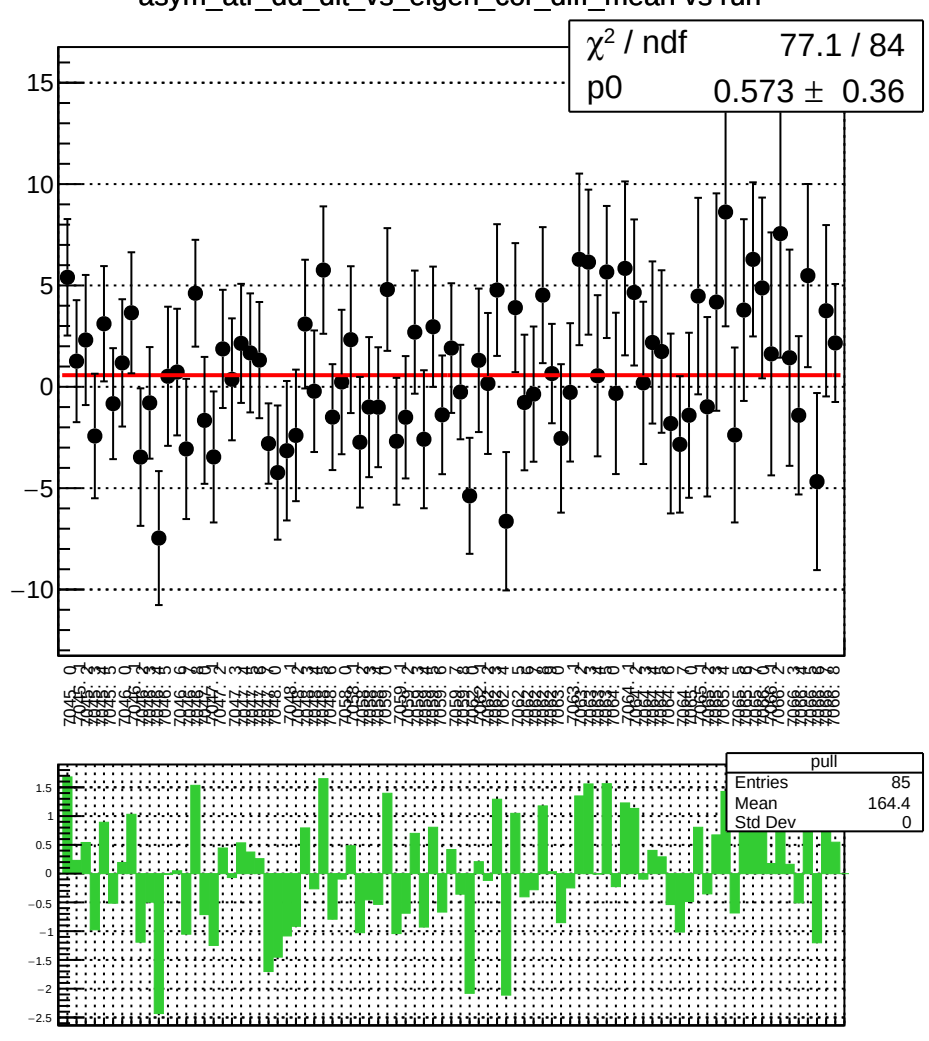

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.11 / 84
p0 −2.589e−13 ± 1.396e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 20.06
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.07191
Std Dev 0.9921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

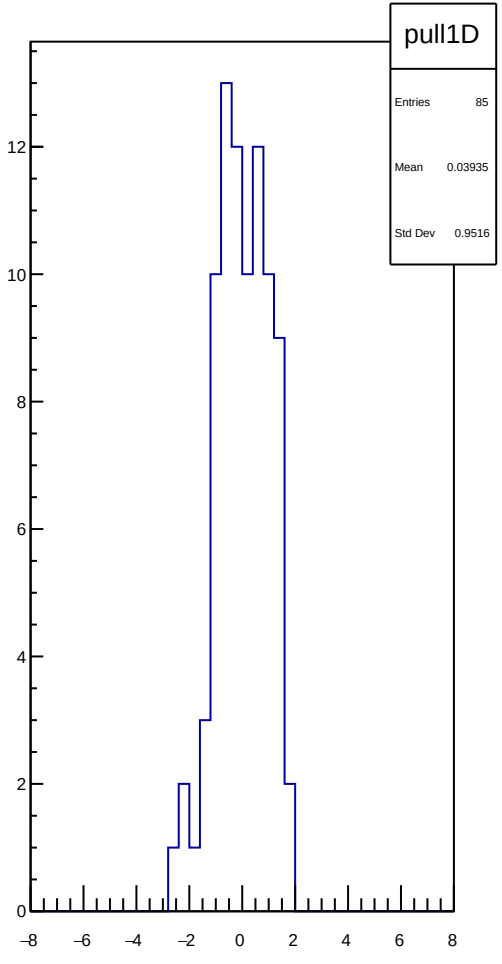

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.514e+05 / 84
p0 8.235e−11 ± 9.873e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

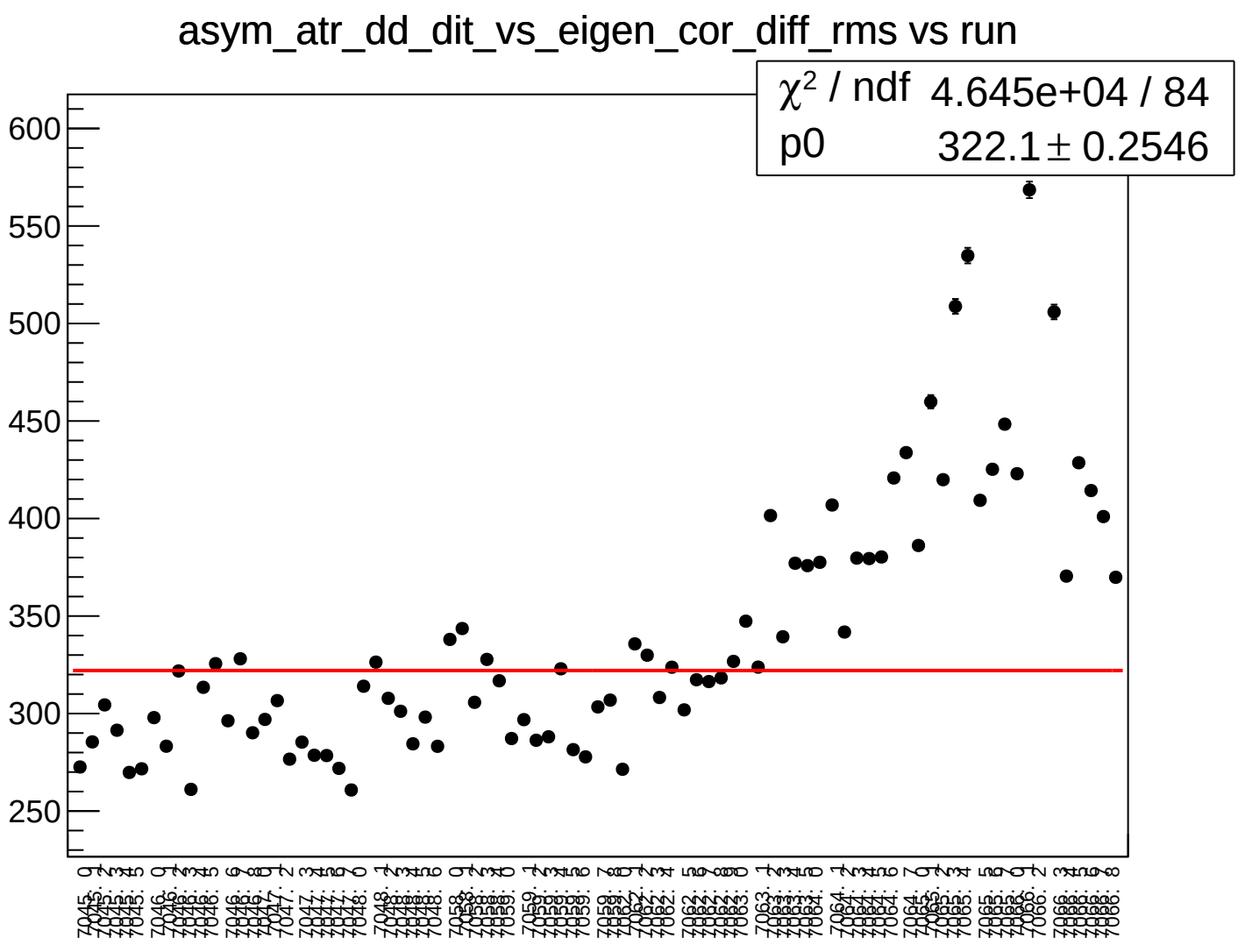

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.1 / 84
p0 0.573 ± 0.36
pull
Entries 85
Mean 164.4
Std Dev 0

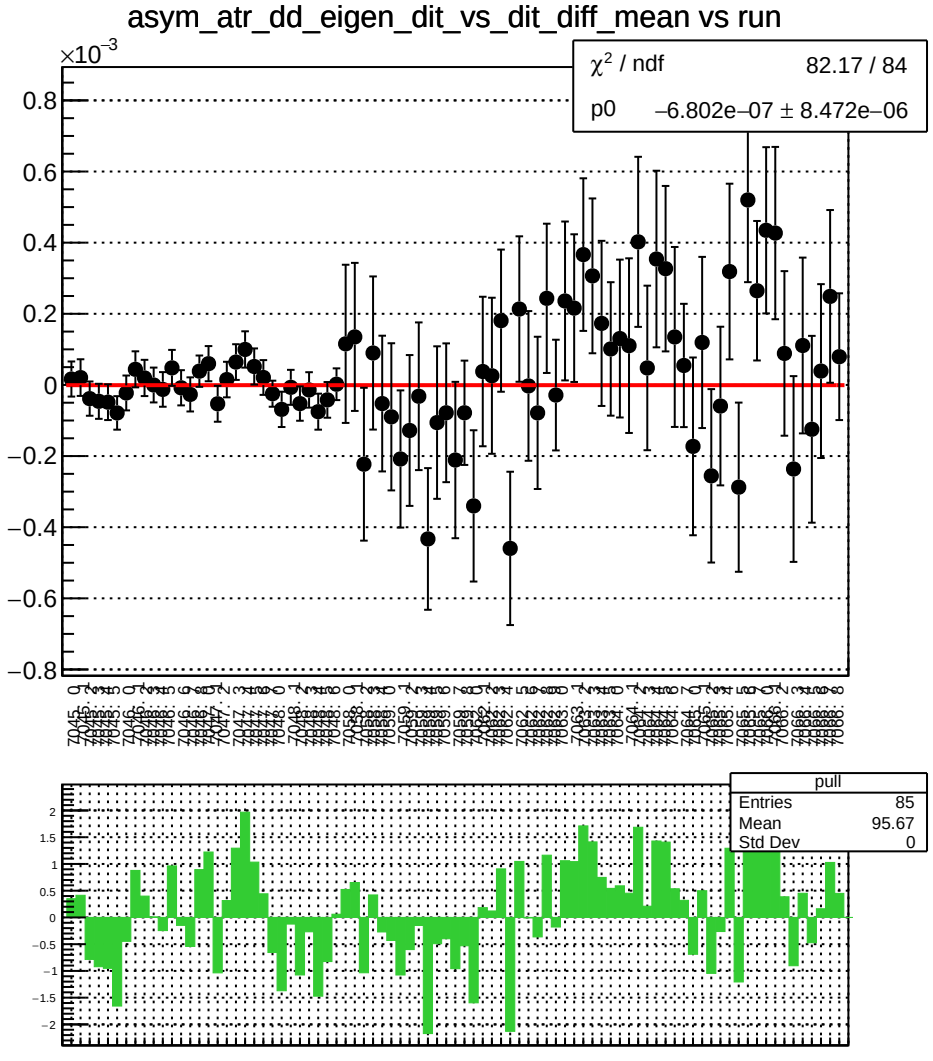

pull1D
Entries 85
Mean 0.03935
Std Dev 0.9516

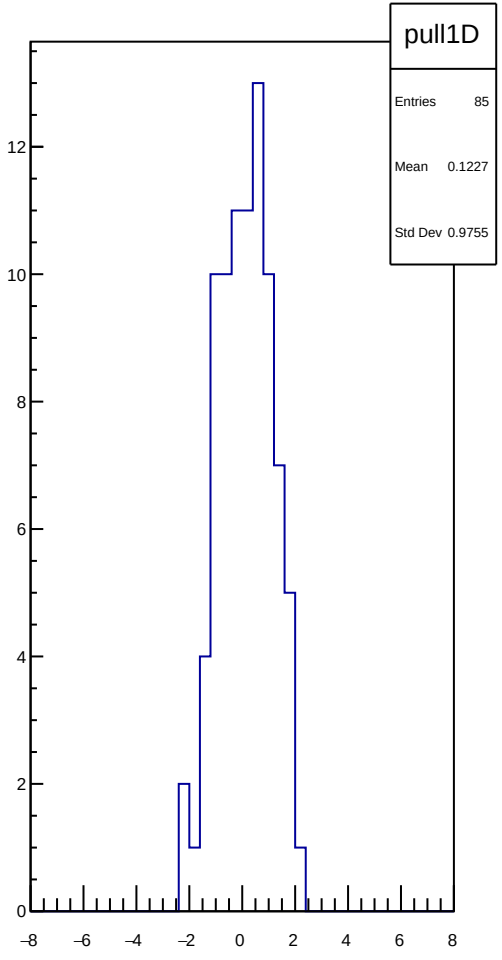

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.645e+04 / 84
p0 322.1 ± 0.2546
600
550
500
450
400
350
300
250

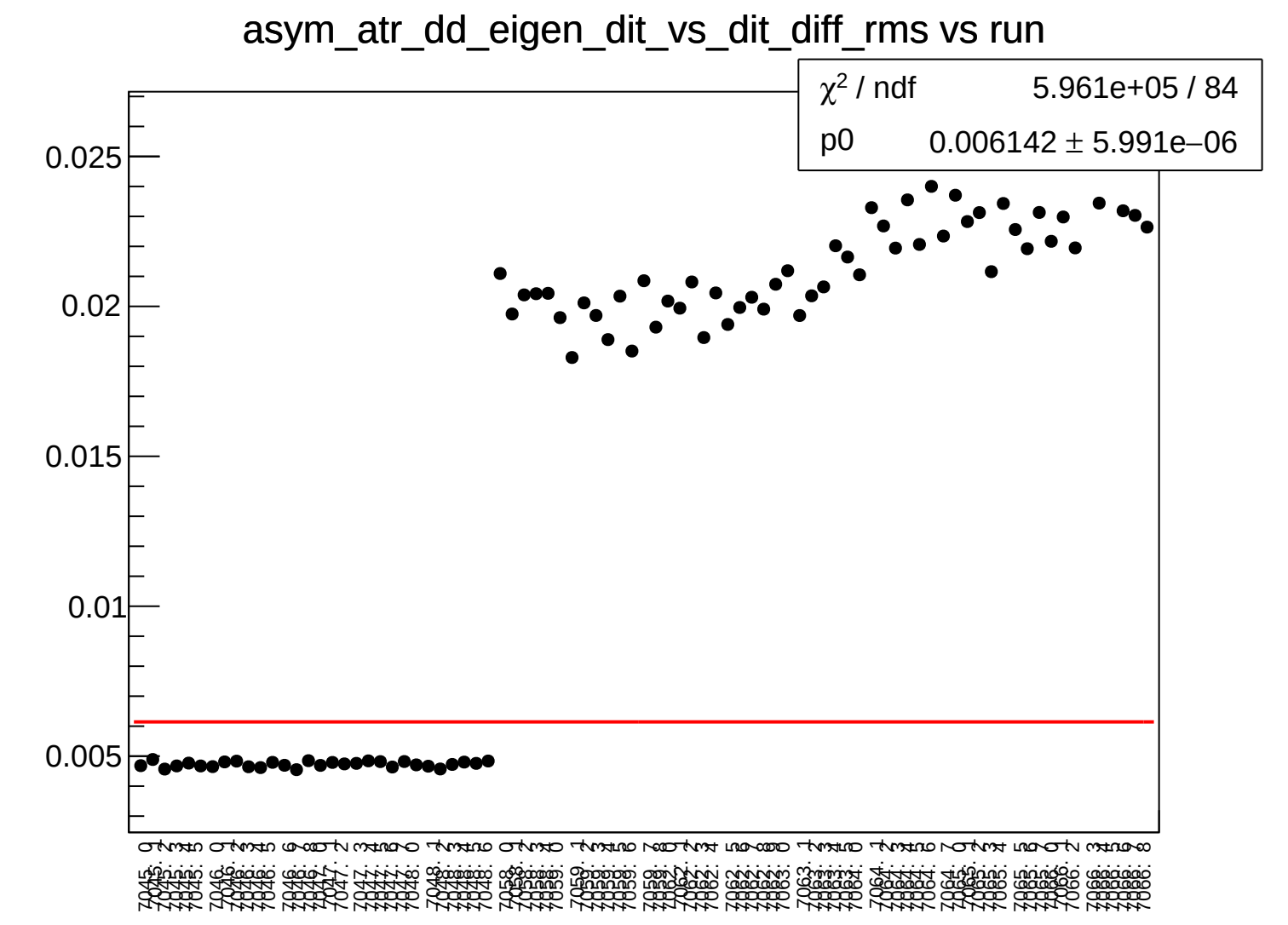

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.1 / 84
p0 0.573 ± 0.36
pull
Entries 85
Mean 164.4
Std Dev 0

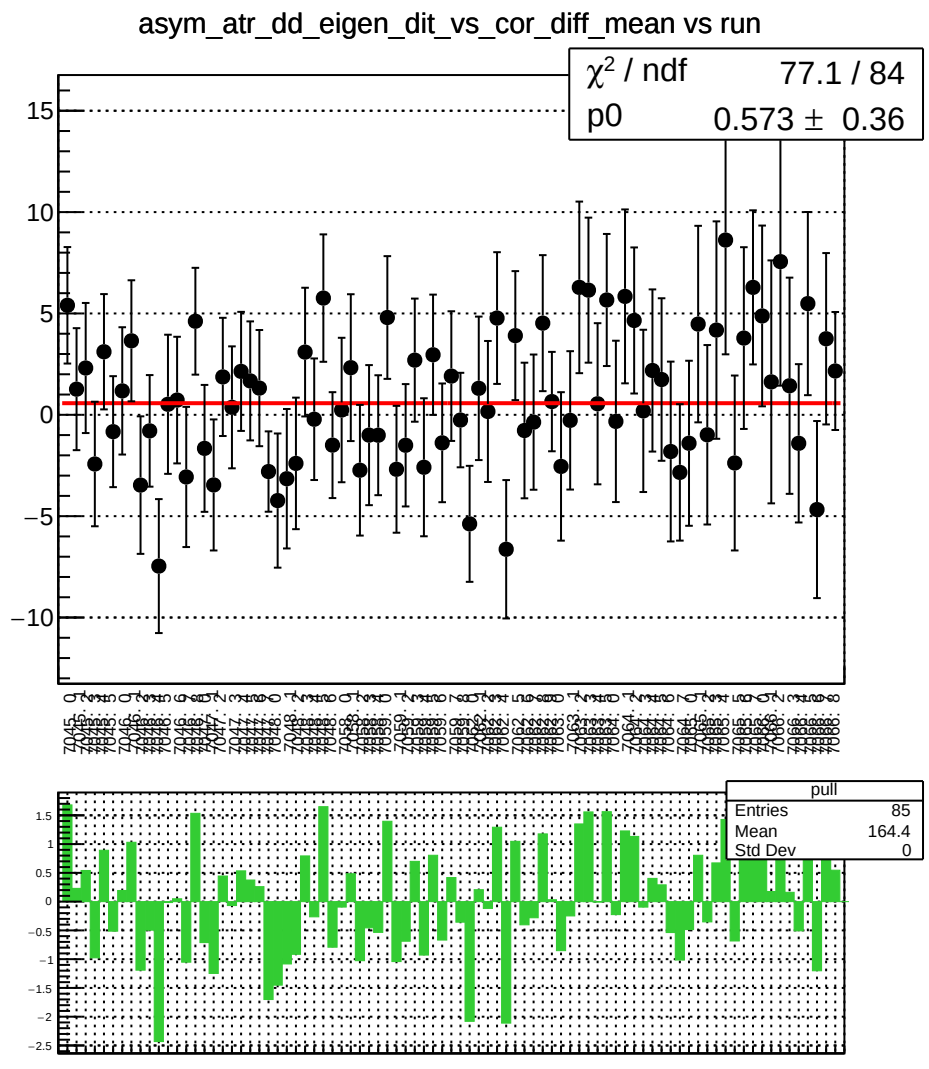

pull1D
Entries 85
Mean 0.03935
Std Dev 0.9516

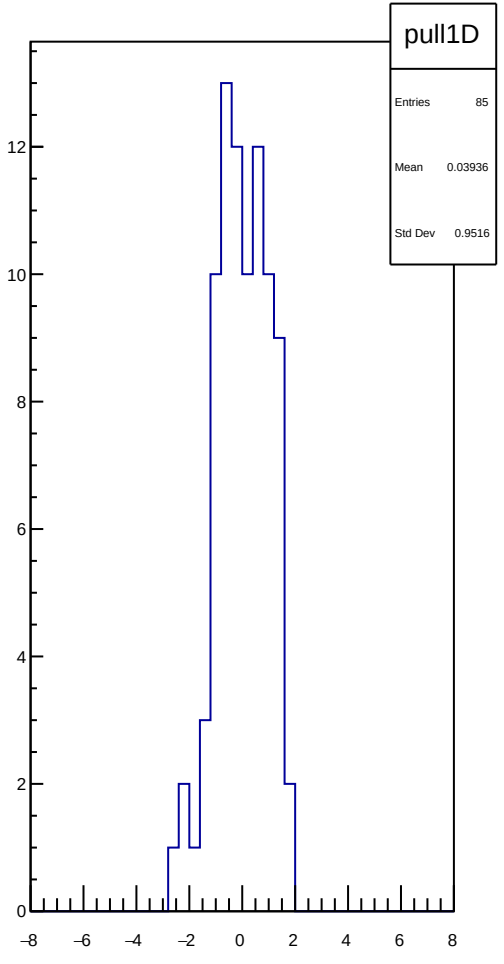

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.645e+04 / 84
p0 322.1 ± 0.2546
600
550
500
450
400
350
300
250

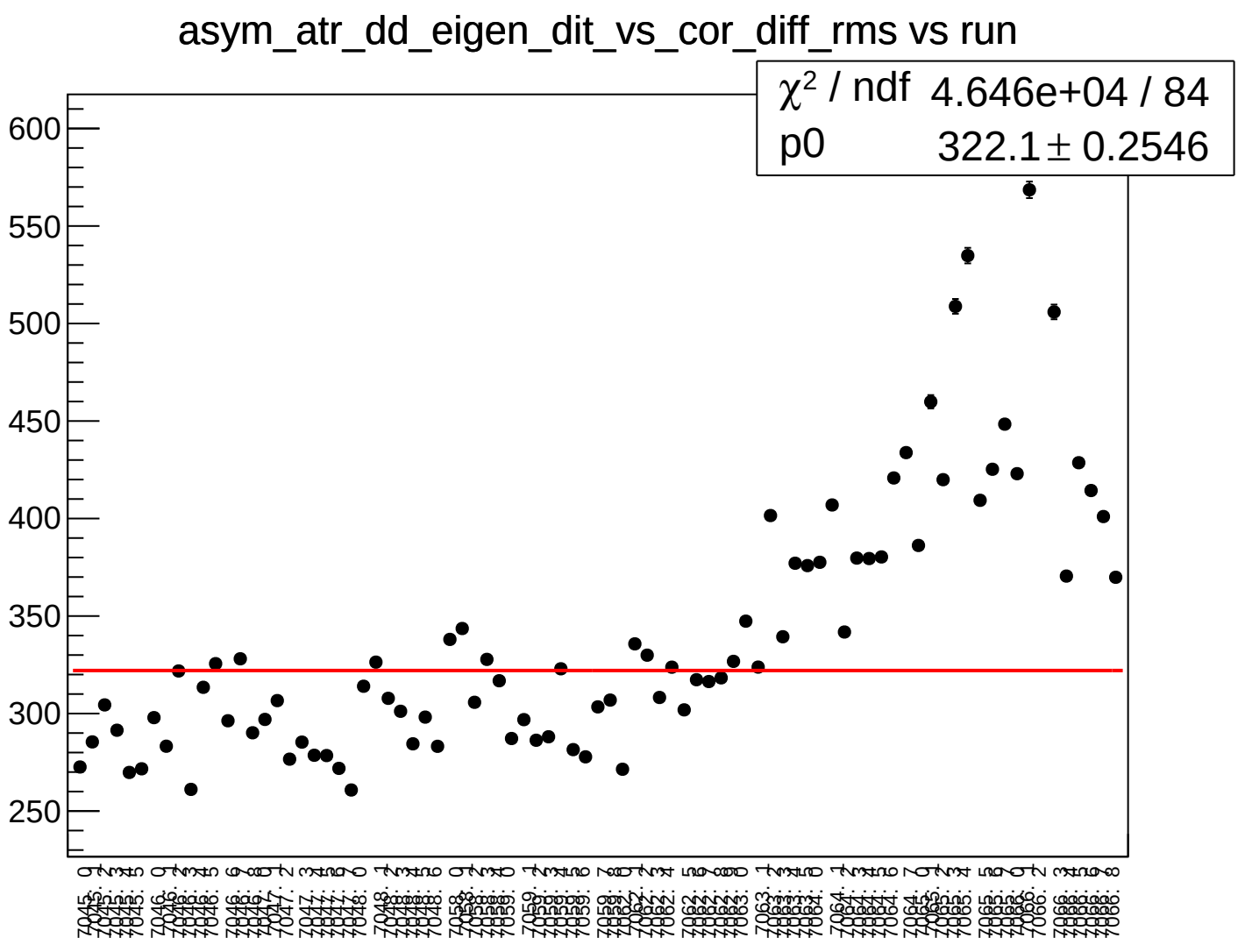

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.17 / 84
p0 −6.802e−07 ± 8.472e−06
pull
Entries 85
Mean 95.67
Std Dev 0

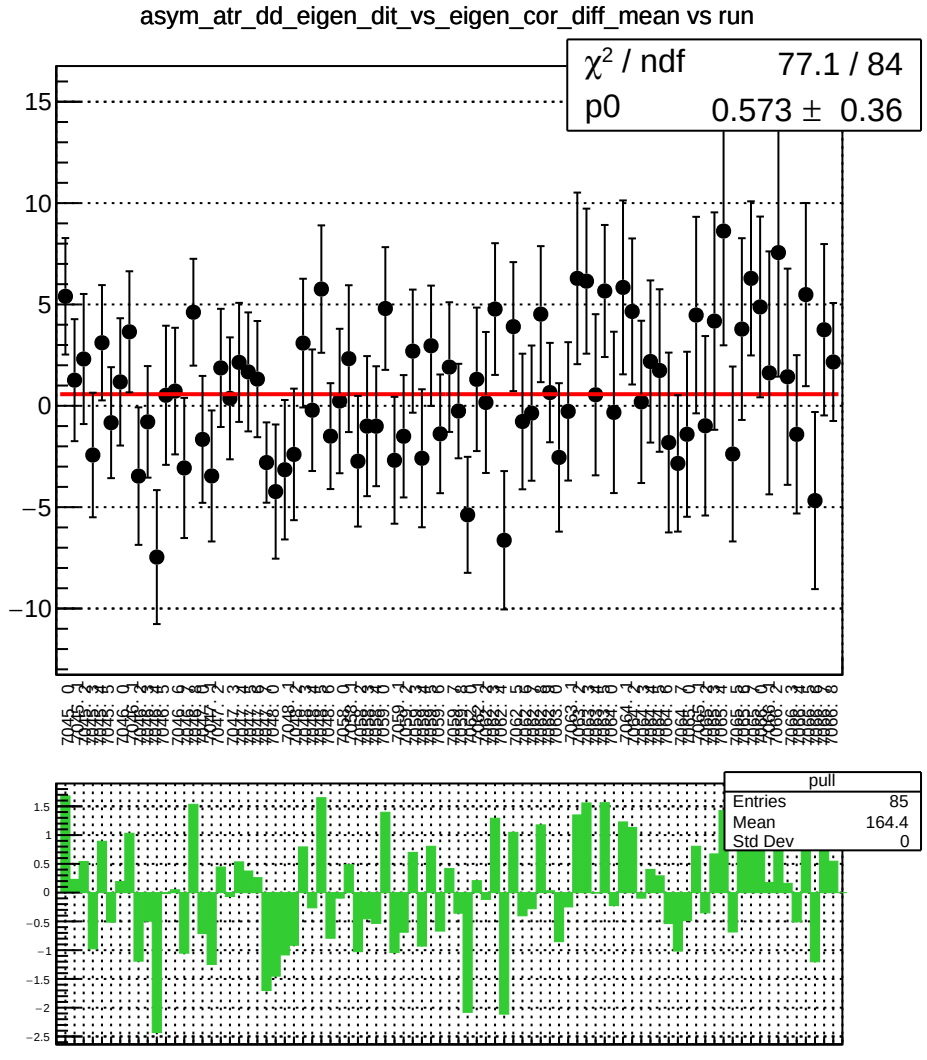

pull1D
Entries 85
Mean 0.1227
Std Dev 0.9755

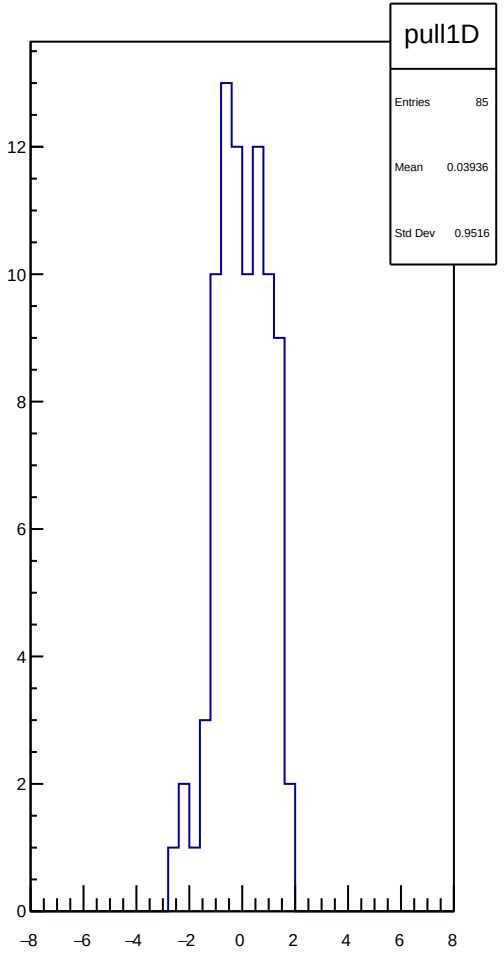

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.961e+05 / 84
p0 0.006142 ± 5.991e−06
0.025
0.02
0.015
0.01
0.005

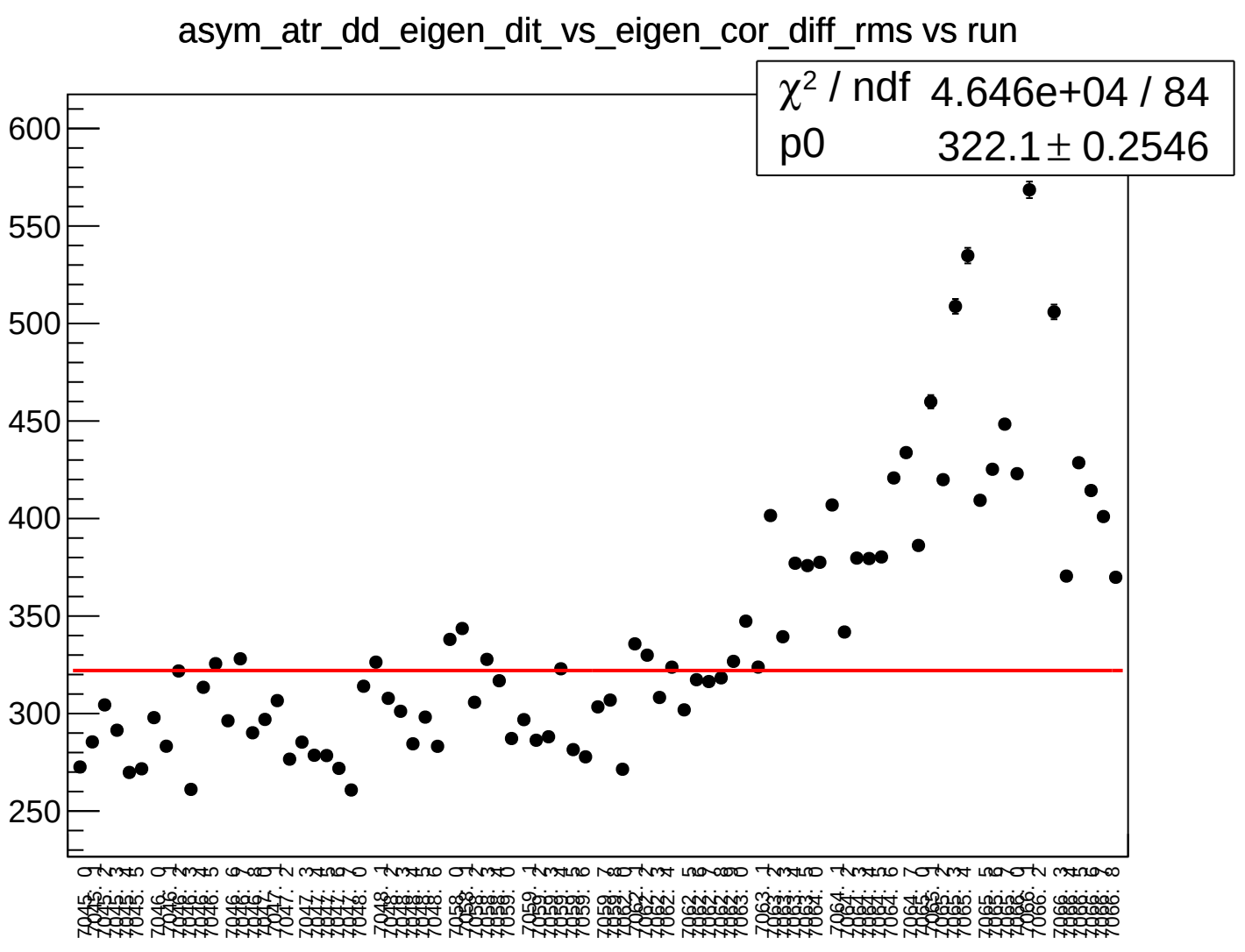

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.1 / 84
p0 0.573 ± 0.36
pull
Entries 85
Mean 164.4
Std Dev 0

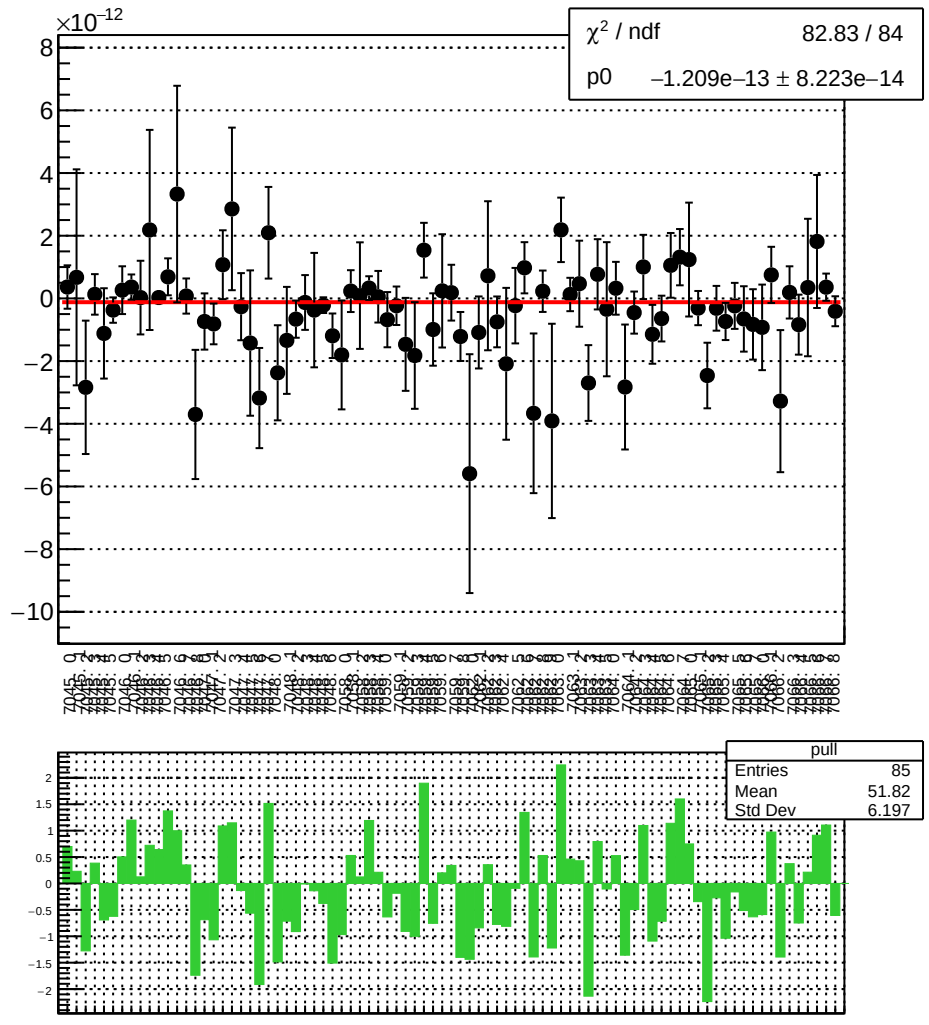

pull1D
Entries 85
Mean 0.03936
Std Dev 0.9516

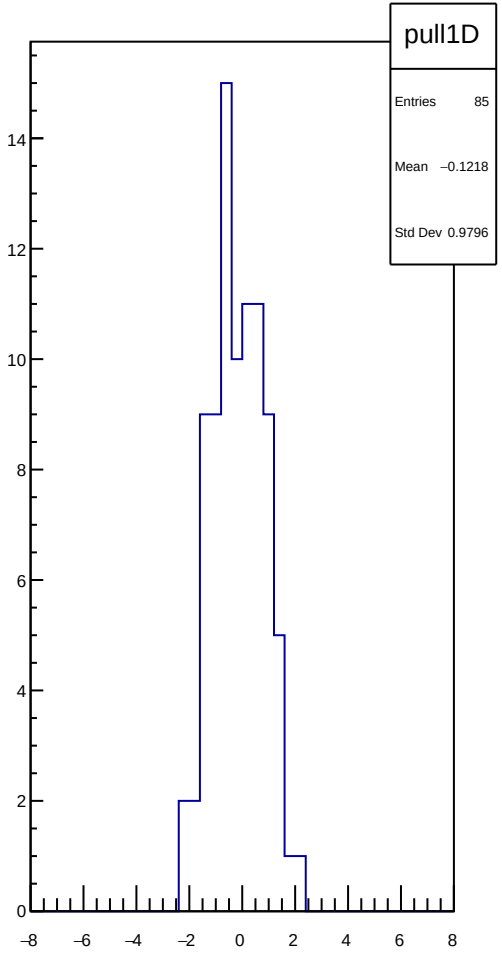

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.646e+04 / 84
p0 322.1 ± 0.2546
600
550
500
450
400
350
300
250

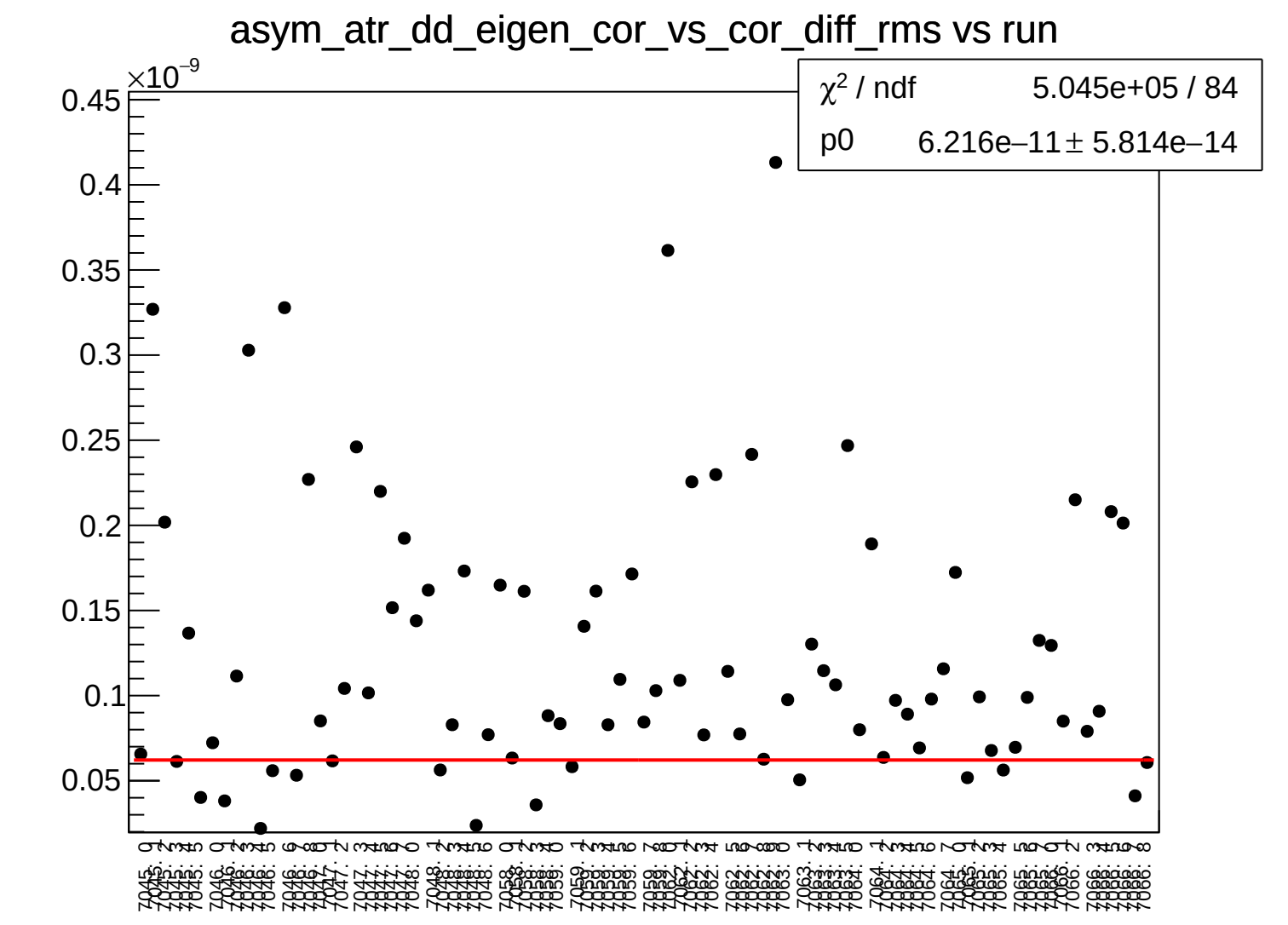

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.1 / 84
p0 0.573 ± 0.36
pull
Entries 85
Mean 164.4
Std Dev 0

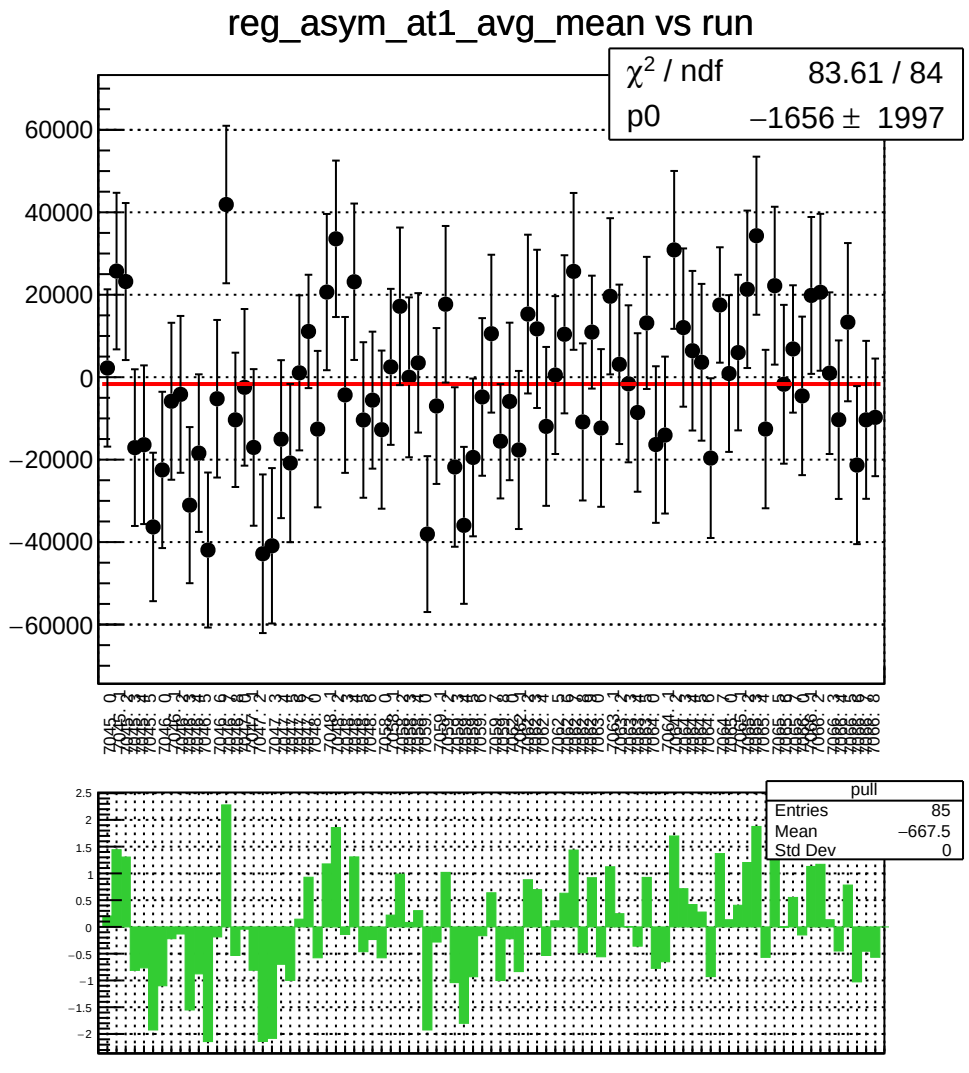

pull1D
Entries 85
Mean 0.03936
Std Dev 0.9516

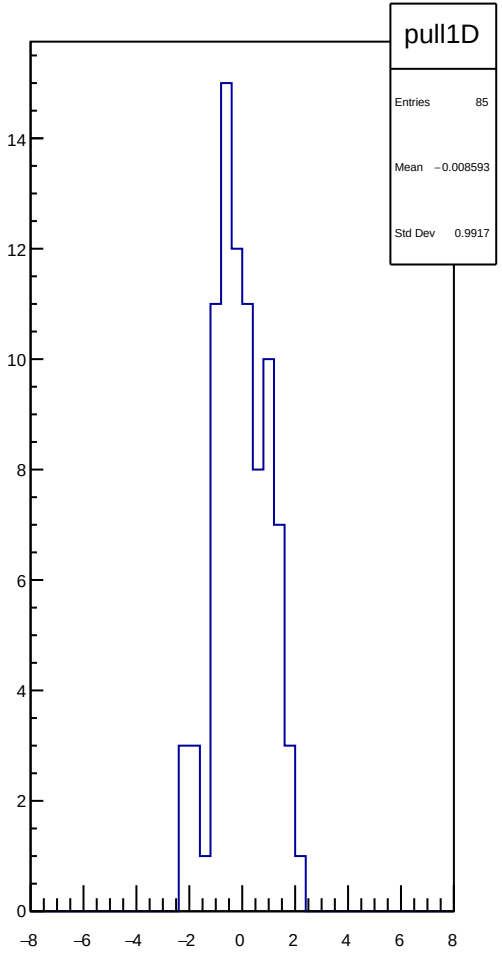

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.646e+04 / 84
p0 322.1 ± 0.2546
600
550
500
450
400
350
300
250

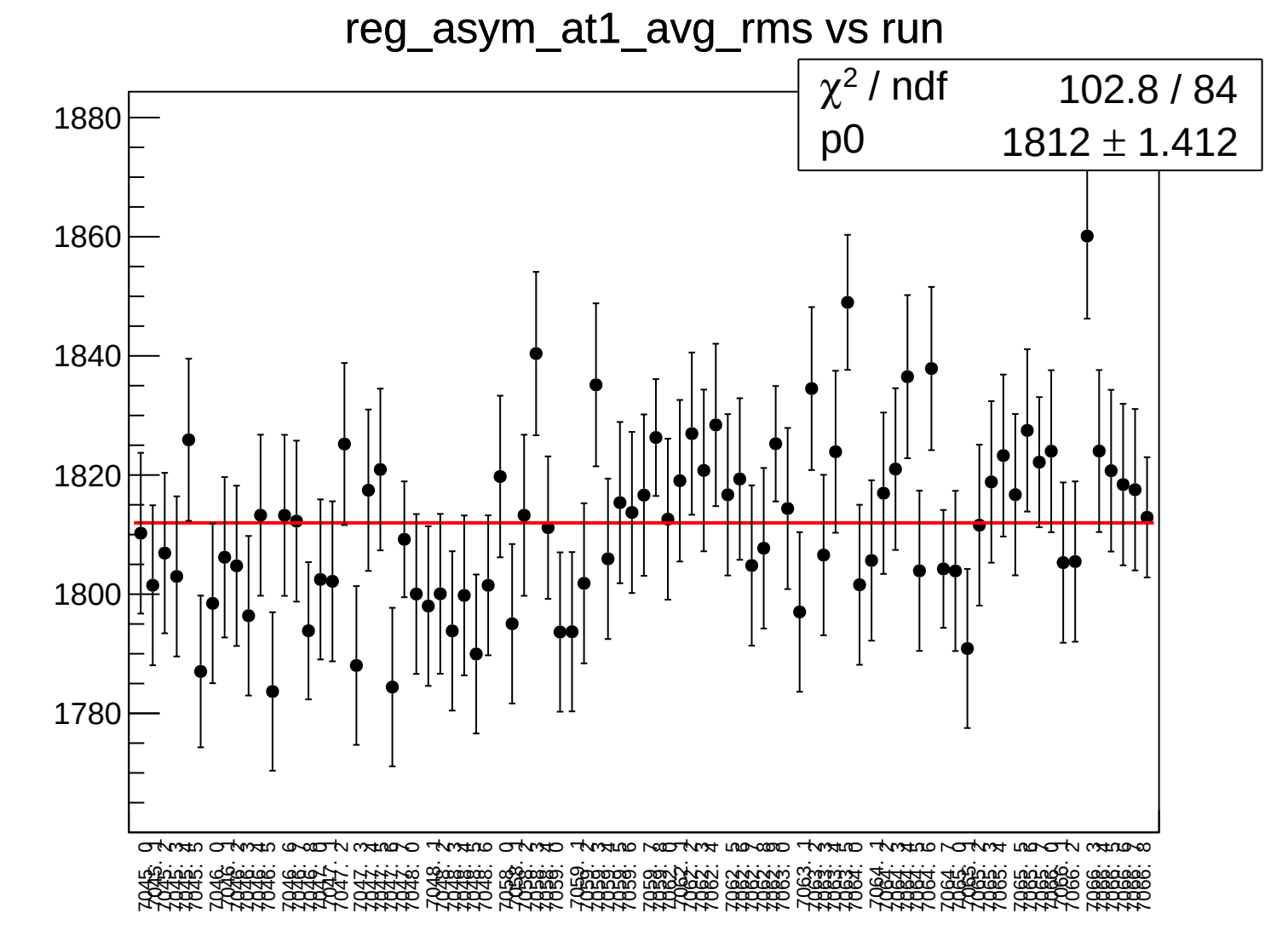

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.83 / 84
p0 −1.209e−13 ± 8.223e−14
pull
Entries 85
Mean 51.82
Std Dev 6.197

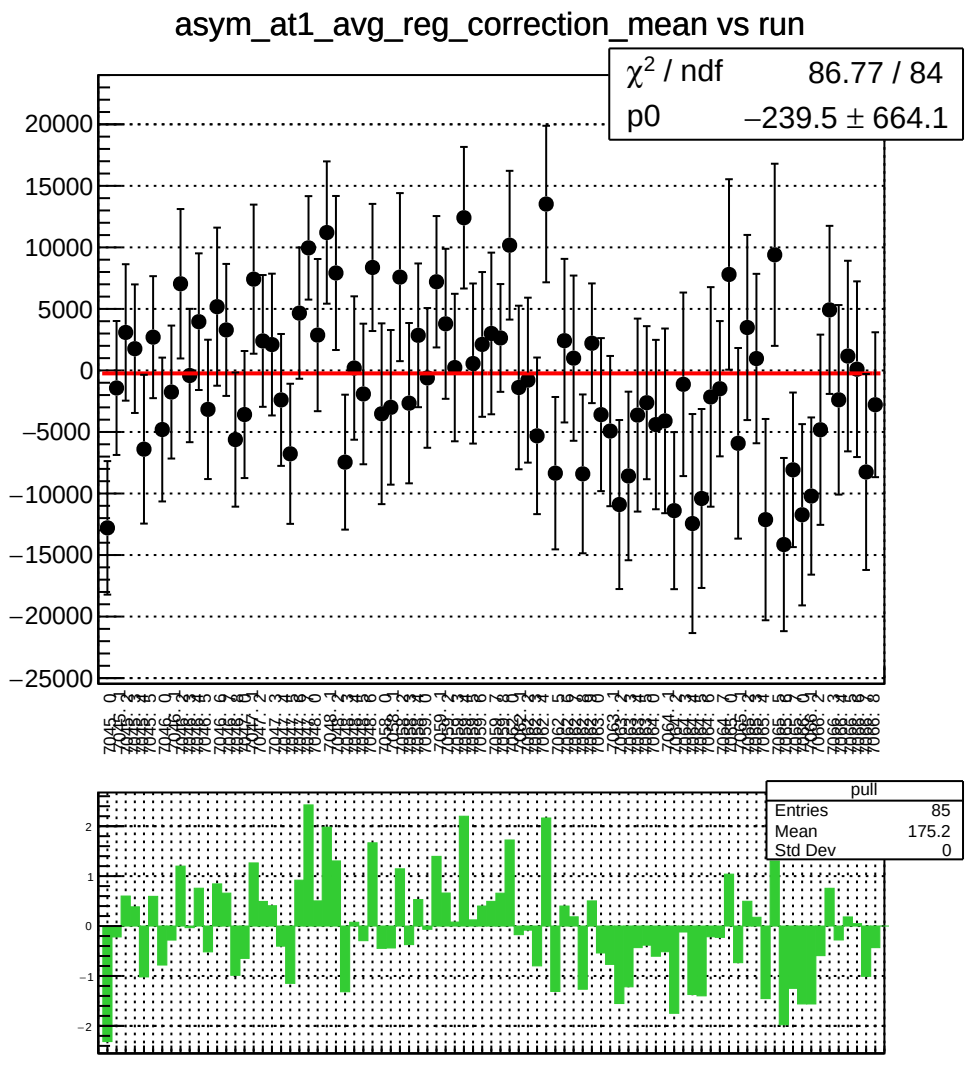

pull1D
Entries 85
Mean −0.1218
Std Dev 0.9796

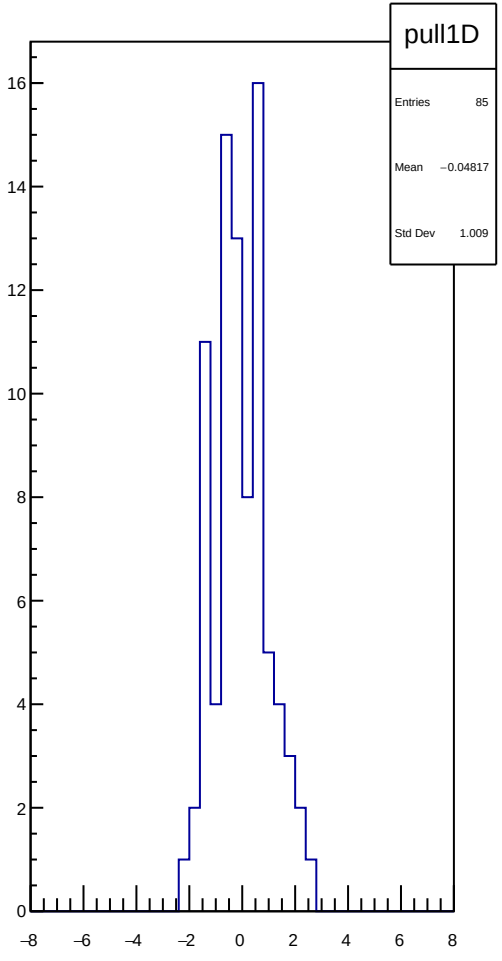

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.045e+05 / 84
p0 6.216e−11 ± 5.814e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

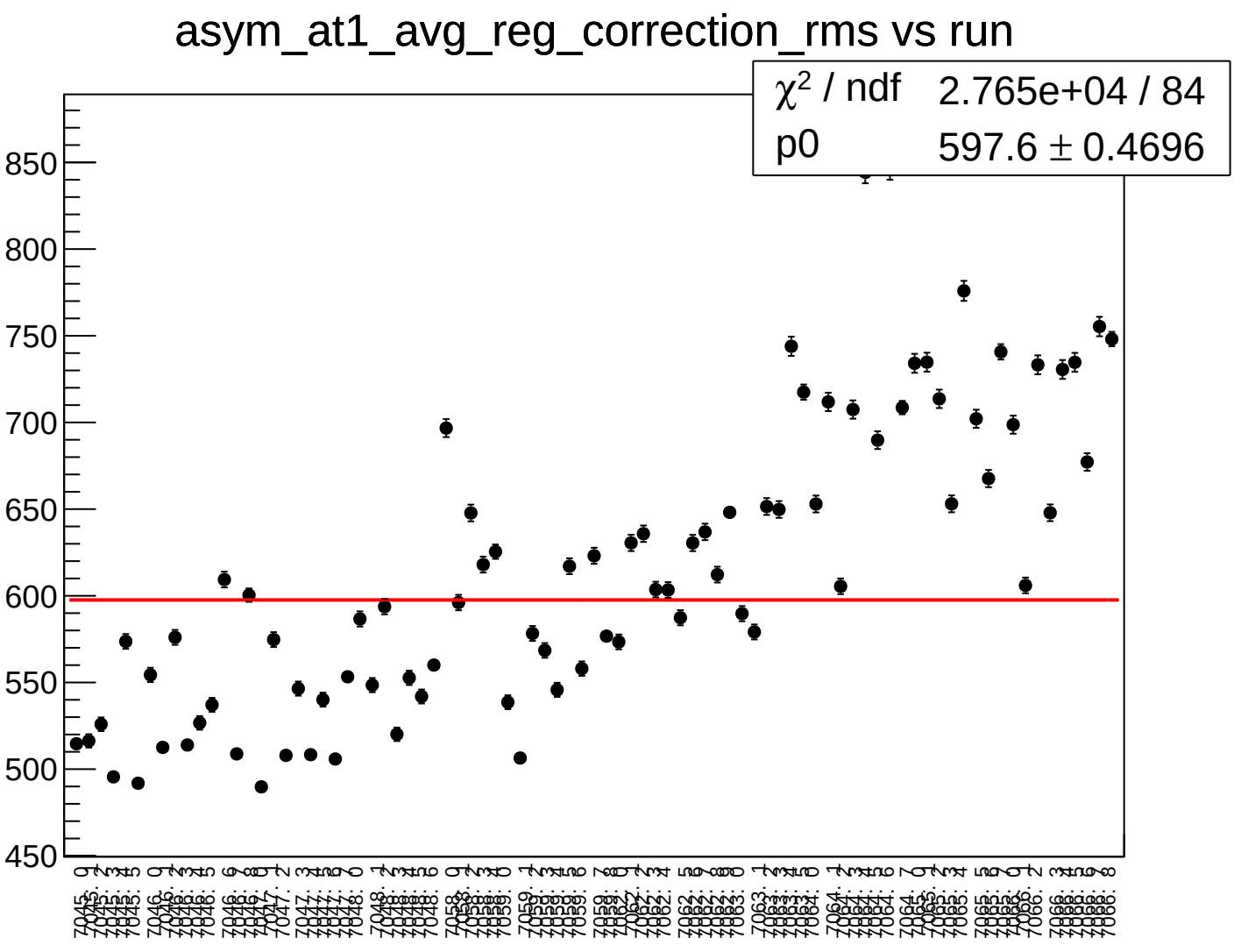

reg_asym_at1_avg_mean vs run
χ² / ndf 83.61 / 84
p0 −1656 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −667.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

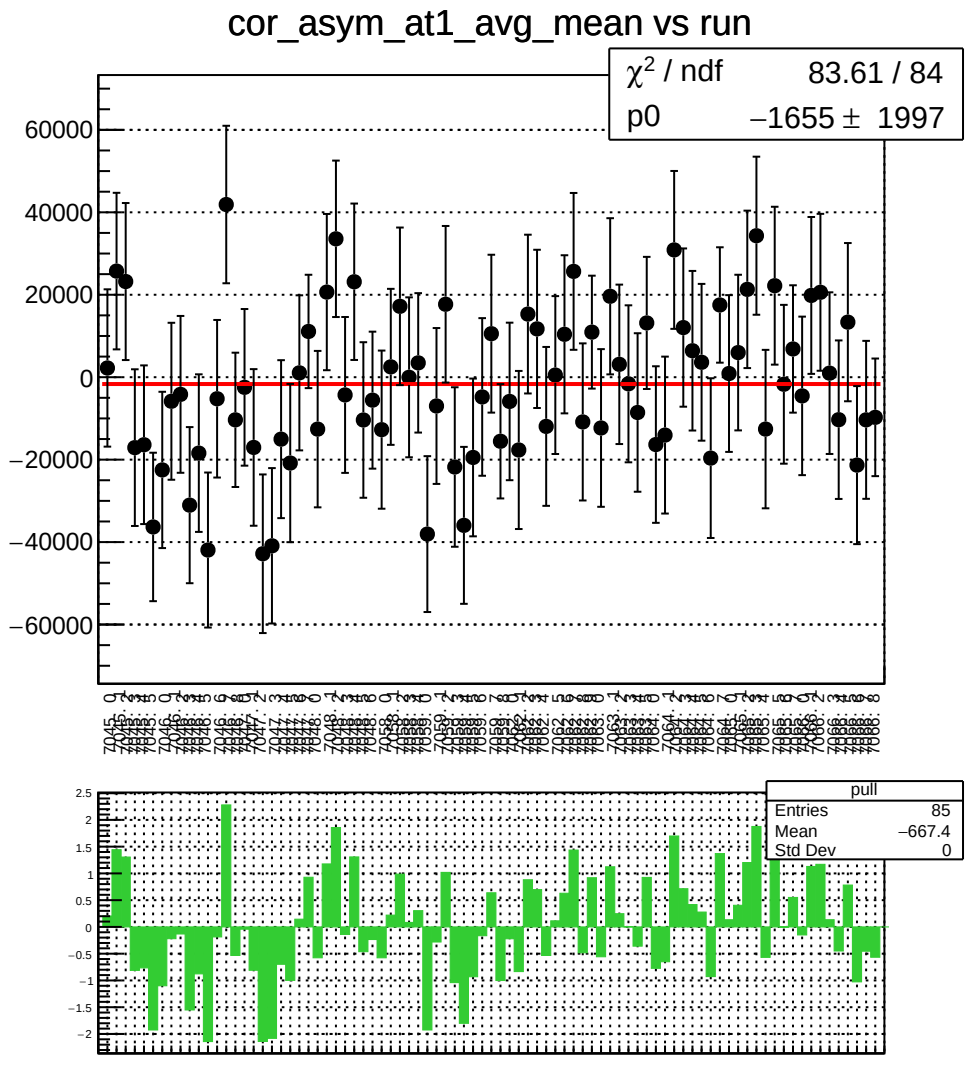

pull1D
Entries 85
Mean −0.008593
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

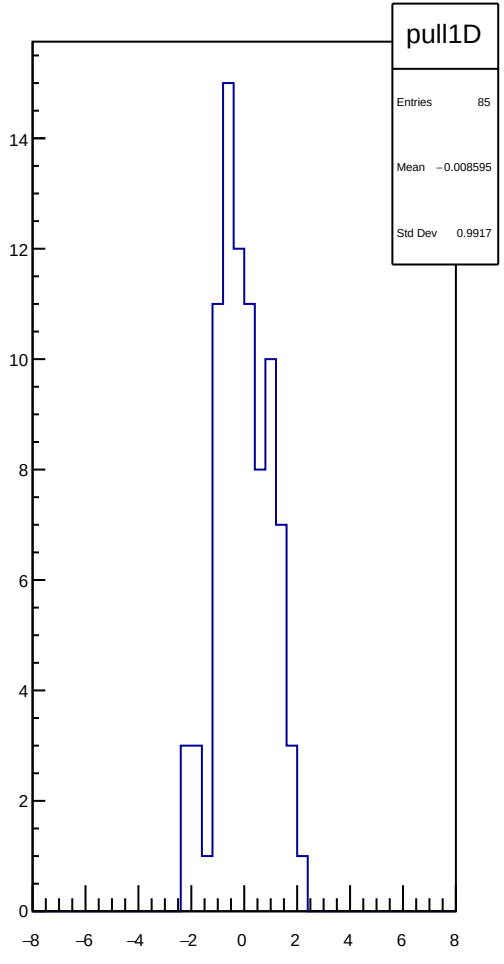

reg_asym_at1_avg_rms vs run
χ^2 / ndf 102.8 / 84
p0 1812 ± 1.412
1880
1860
1840
1820
1800
1780

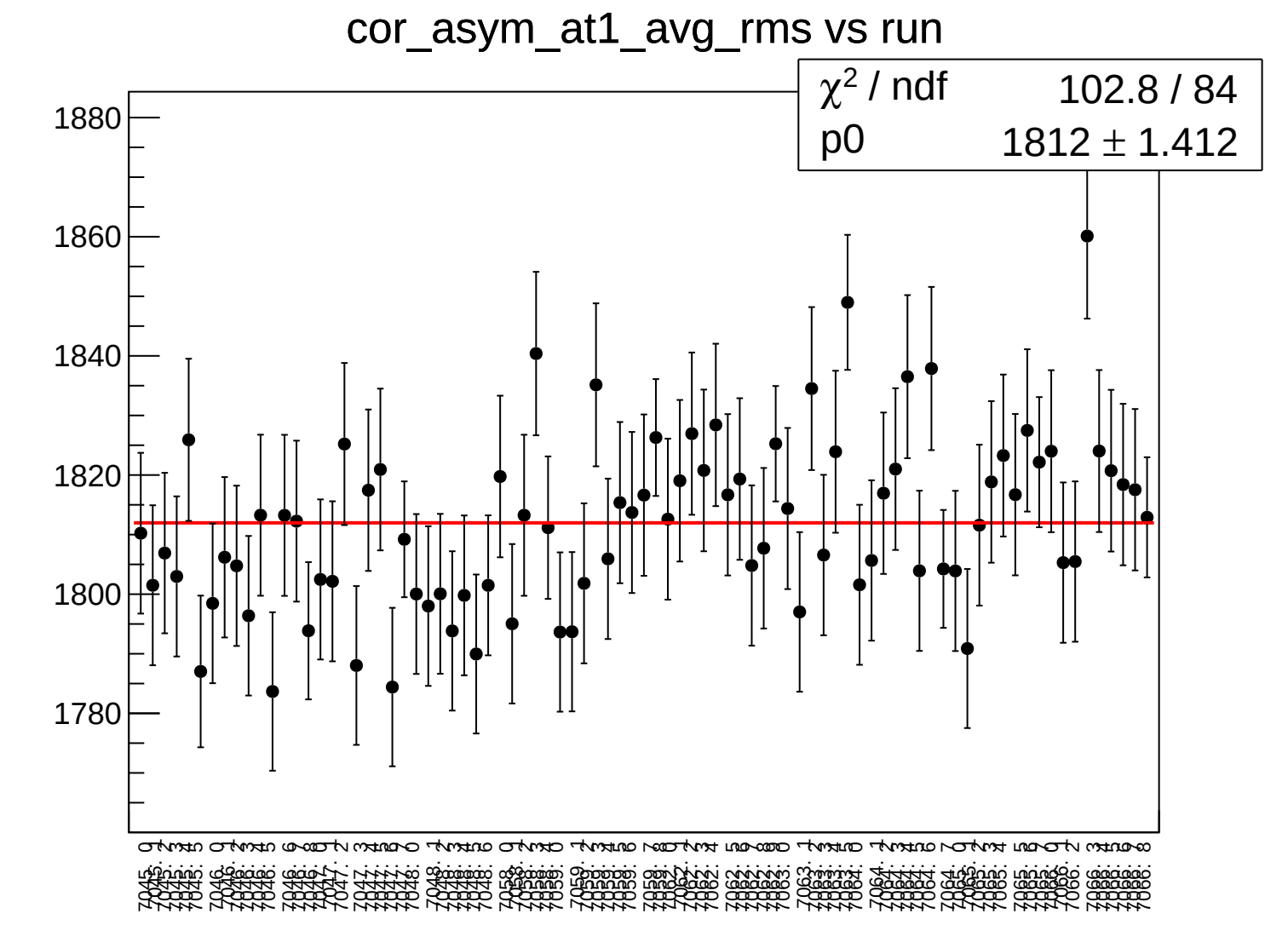

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 86.77 / 84
p0 −239.5 ± 664.1
pull
Entries 85
Mean 175.2
Std Dev 0

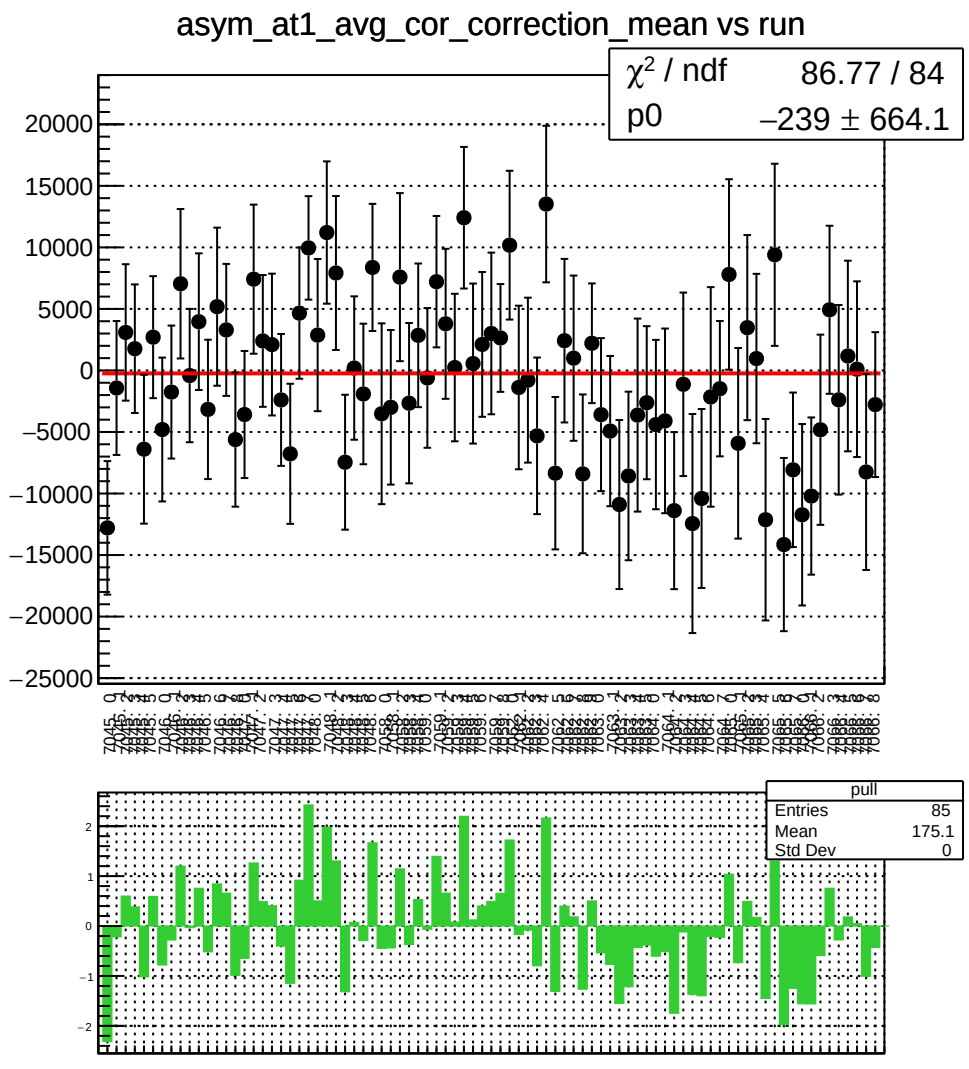

pull1D
Entries 85
Mean −0.04817
Std Dev 1.009

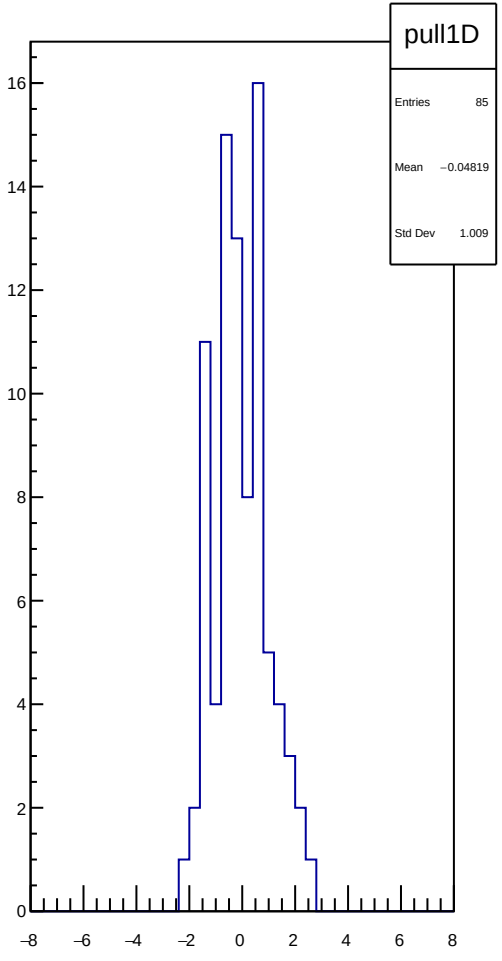

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.765e+04 / 84
p0 597.6 ± 0.4696
850
800
750
700
650
600
550
500
450

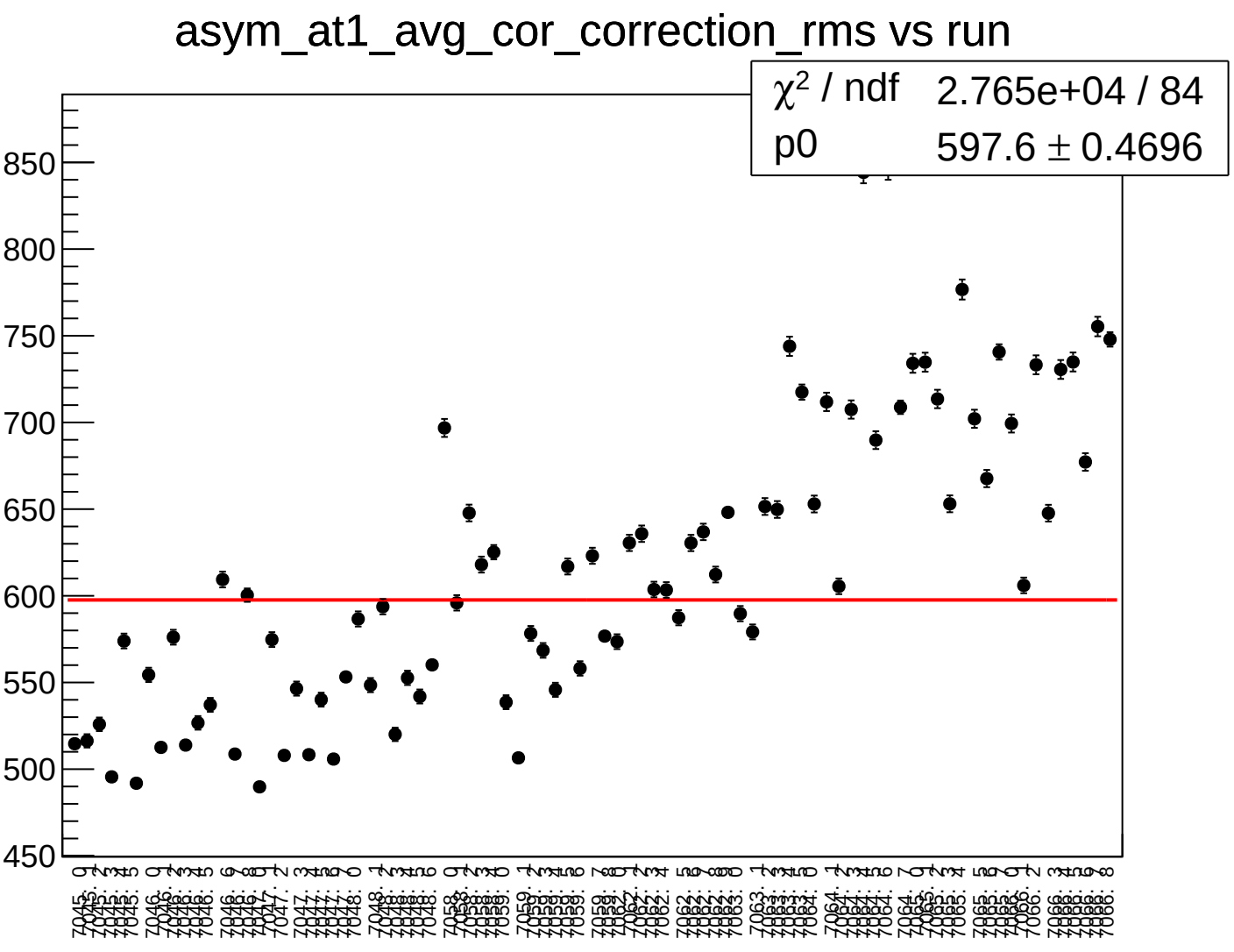

cor_asym_at1_avg_mean vs run
χ² / ndf 83.61 / 84
p0 −1655 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −667.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

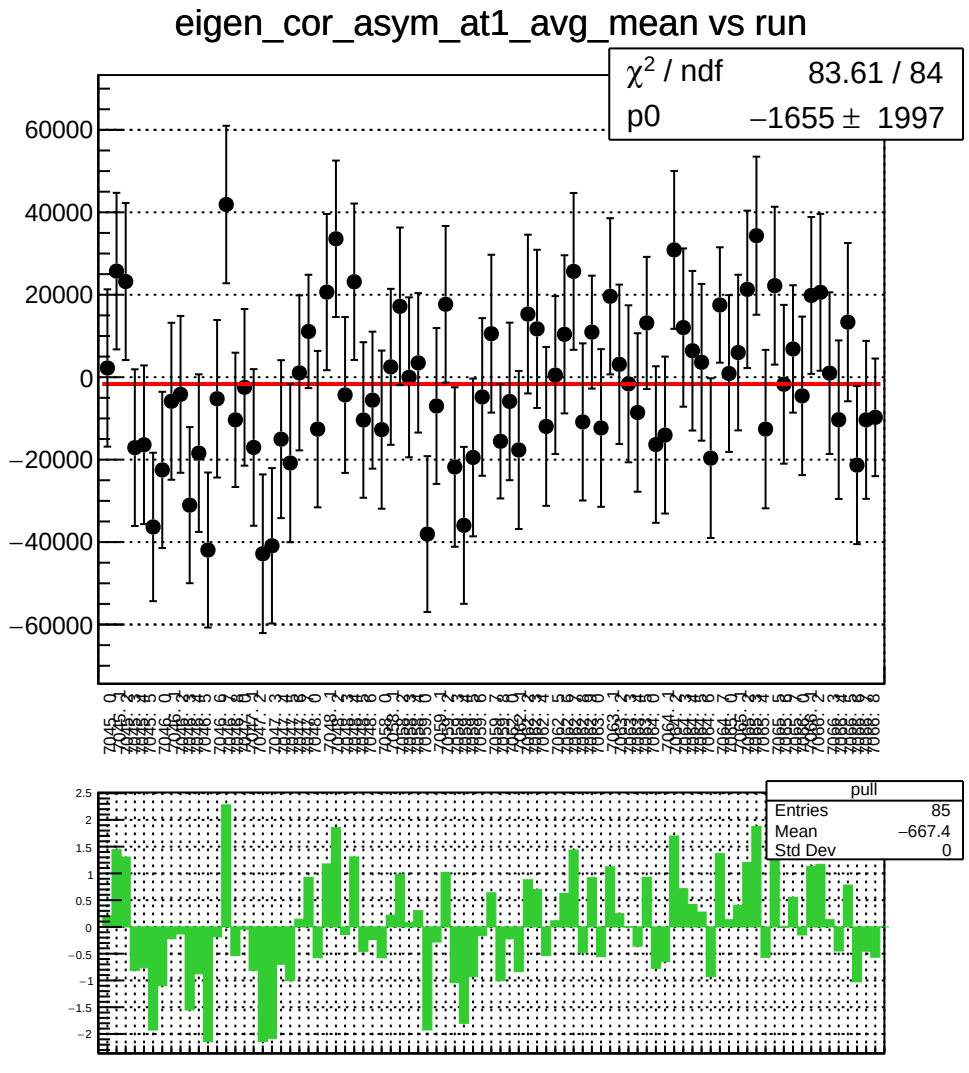

pull1D
Entries 85
Mean −0.008595
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

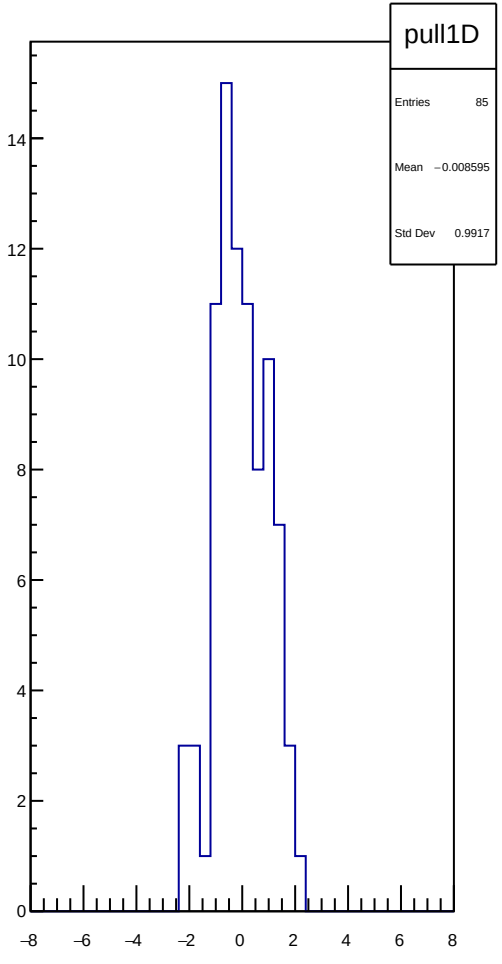

cor_asym_at1_avg_rms vs run
χ^2 / ndf 102.8 / 84
p0 1812 ± 1.412
1880
1860
1840
1820
1800
1780

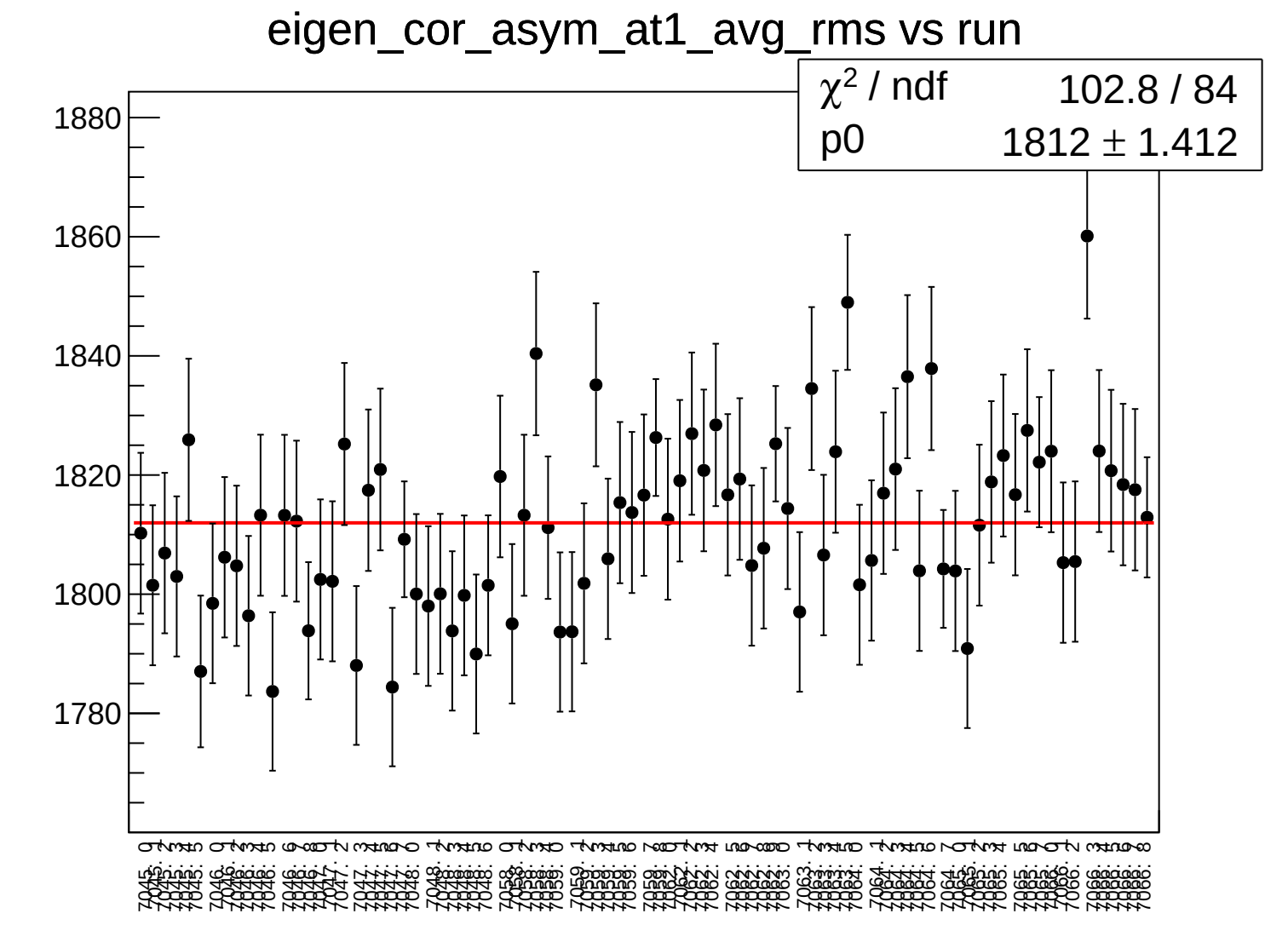

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 86.77 / 84
p0 −239 ± 664.1
pull
Entries 85
Mean 175.1
Std Dev 0

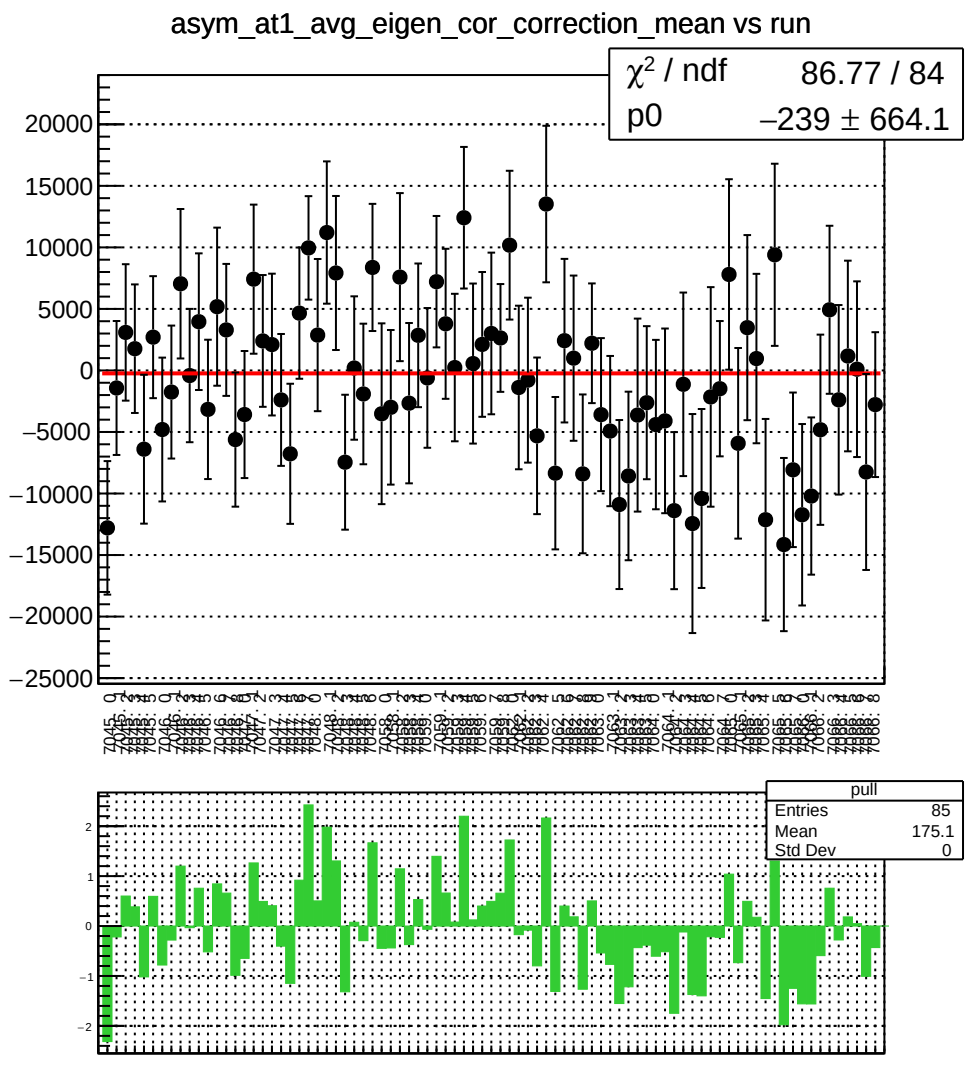

pull1D
Entries 85
Mean −0.04819
Std Dev 1.009

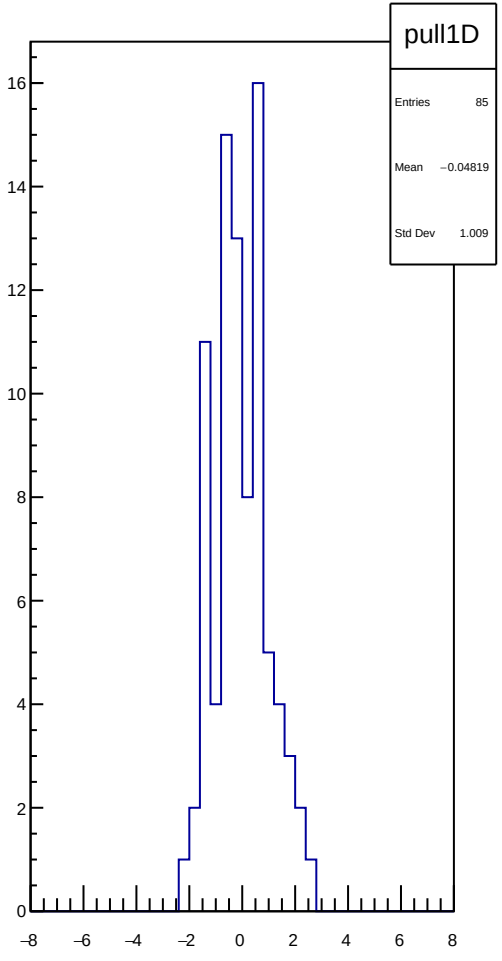

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.765e+04 / 84
p0 597.6 ± 0.4696
850
800
750
700
650
600
550
500
450

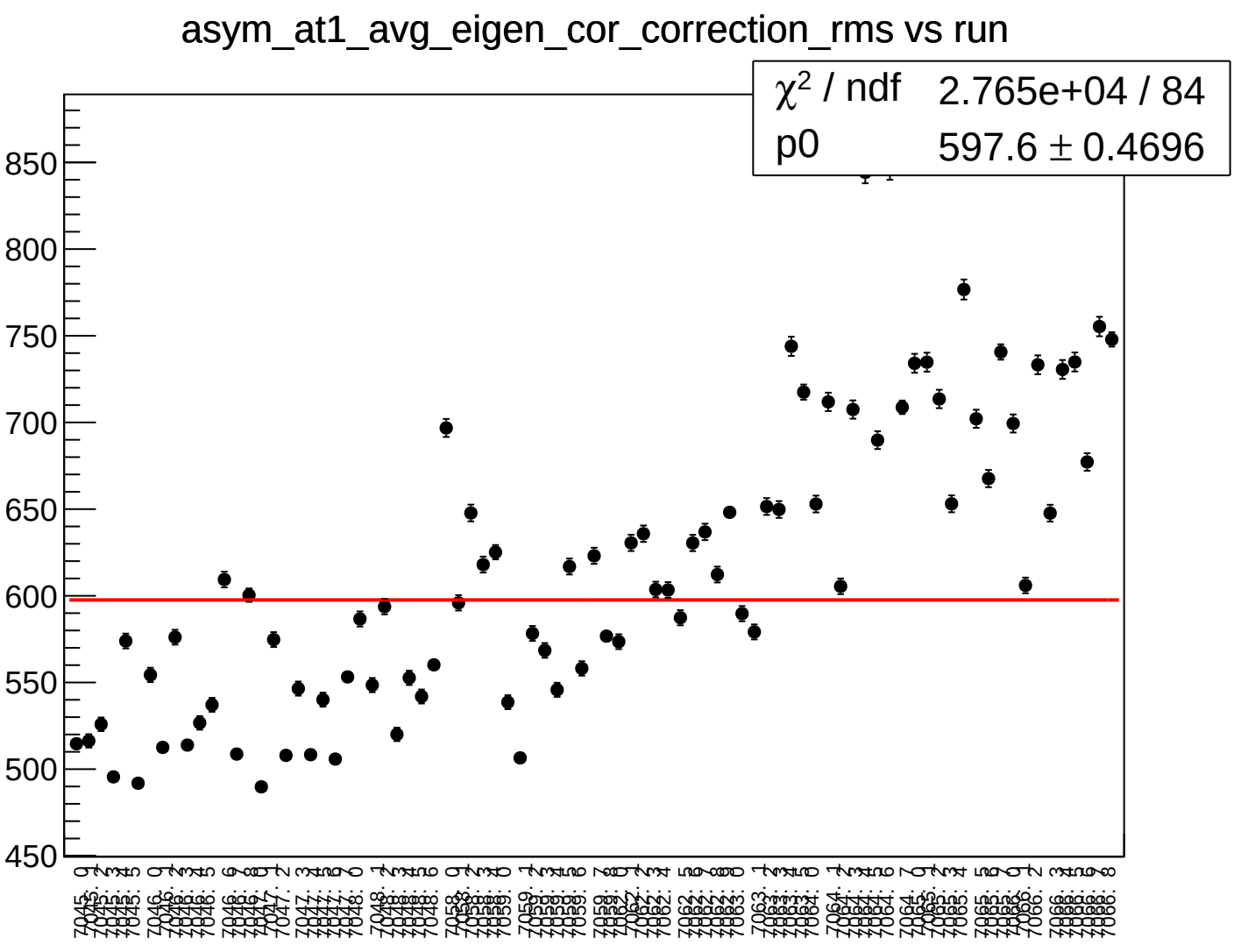

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 83.61 / 84
p0 −1655 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −667.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

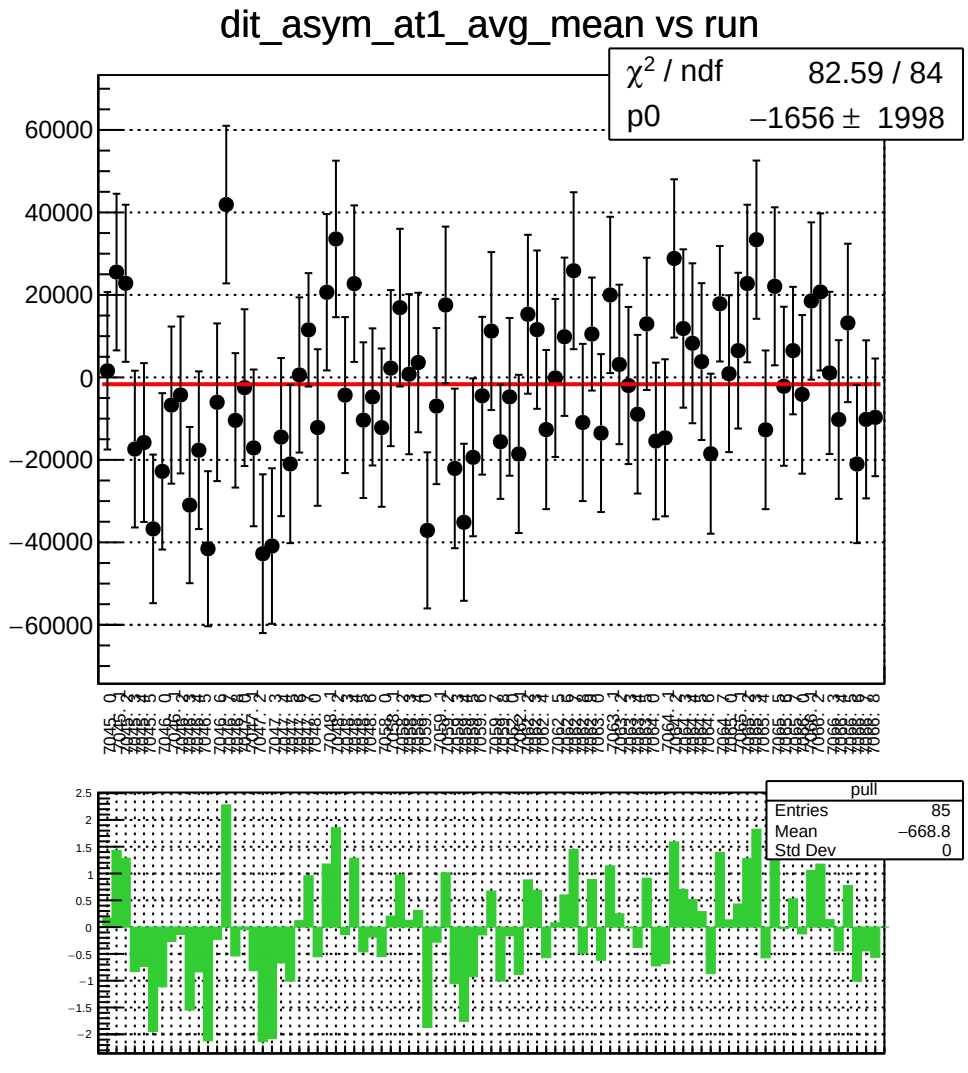

pull1D
Entries 85
Mean −0.008595
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

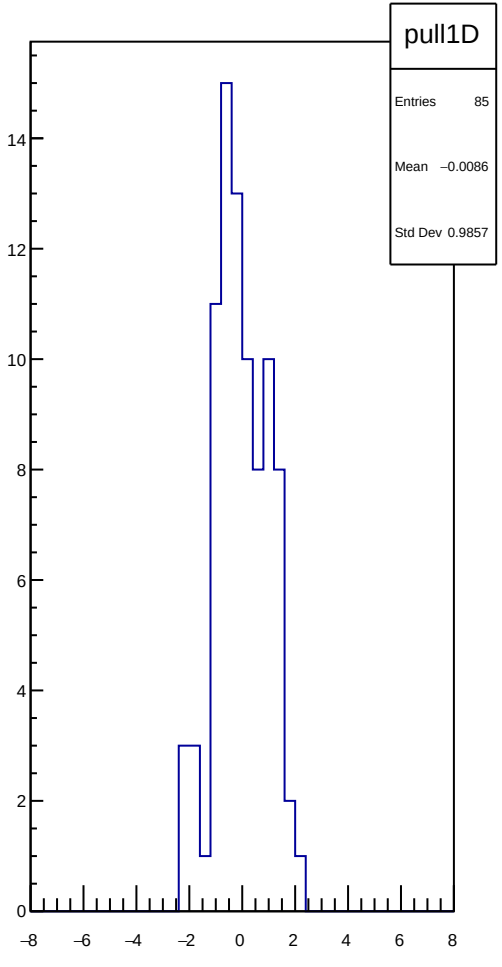

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 102.8 / 84
p0 1812 ± 1.412
1880
1860
1840
1820
1800
1780

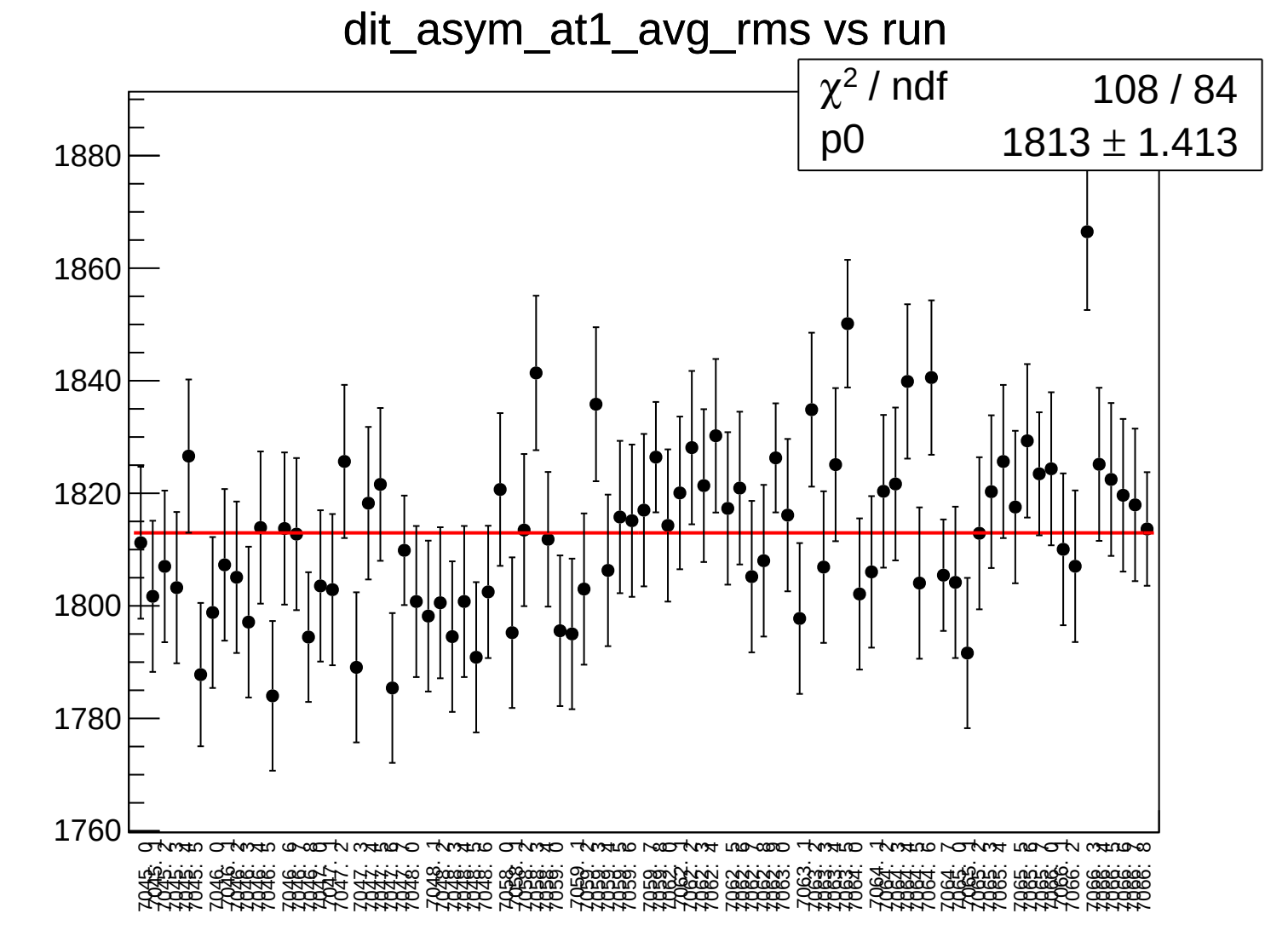

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.77 / 84
p0 −239 ± 664.1
pull
Entries 85
Mean 175.1
Std Dev 0

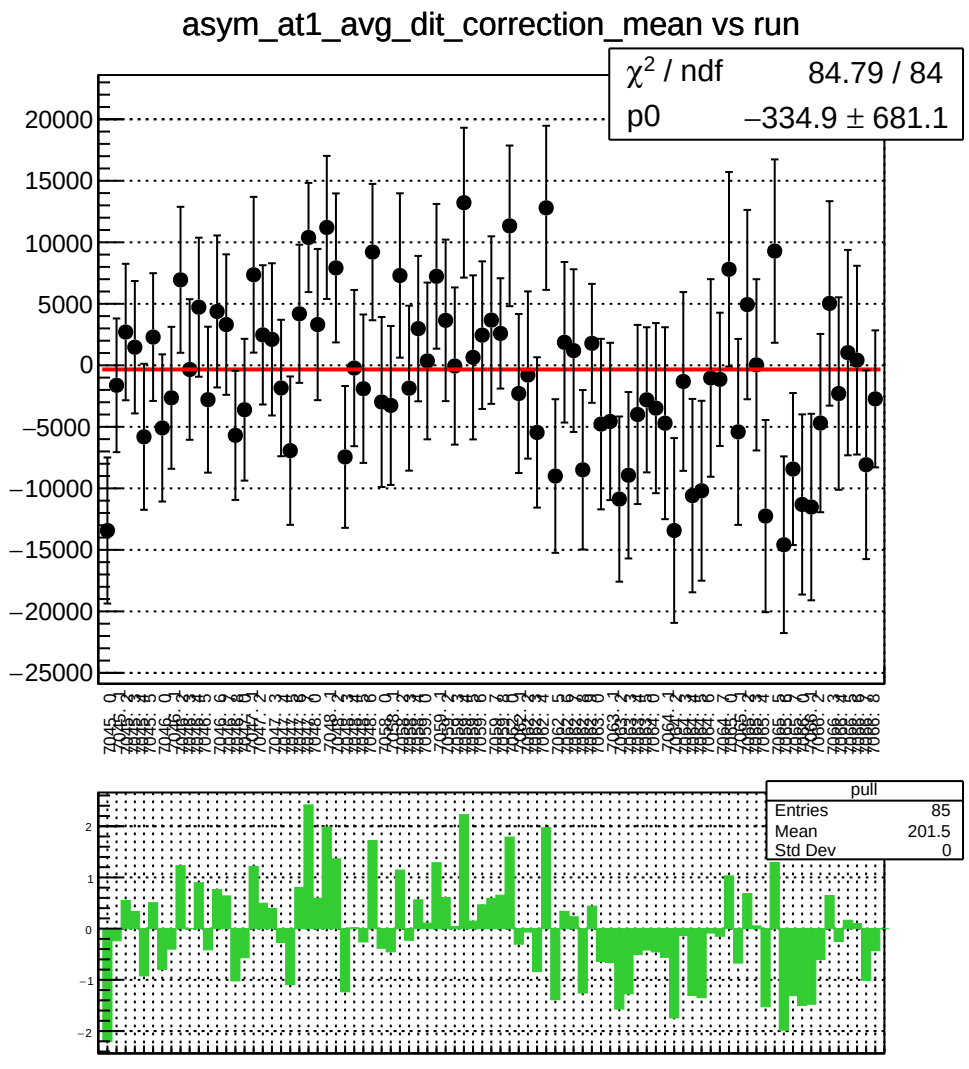

pull1D
Entries 85
Mean −0.04819
Std Dev 1.009

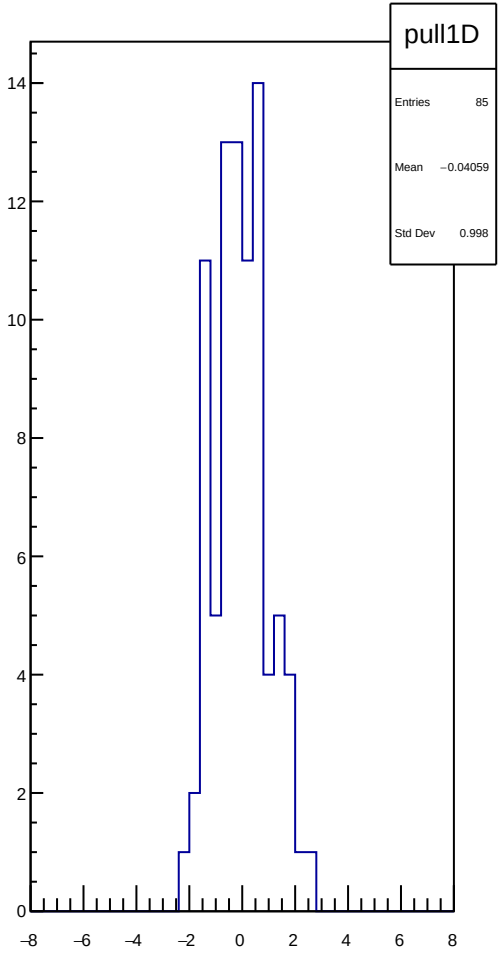

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.765e+04 / 84
p0 597.6 ± 0.4696
850
800
750
700
650
600
550
500
450

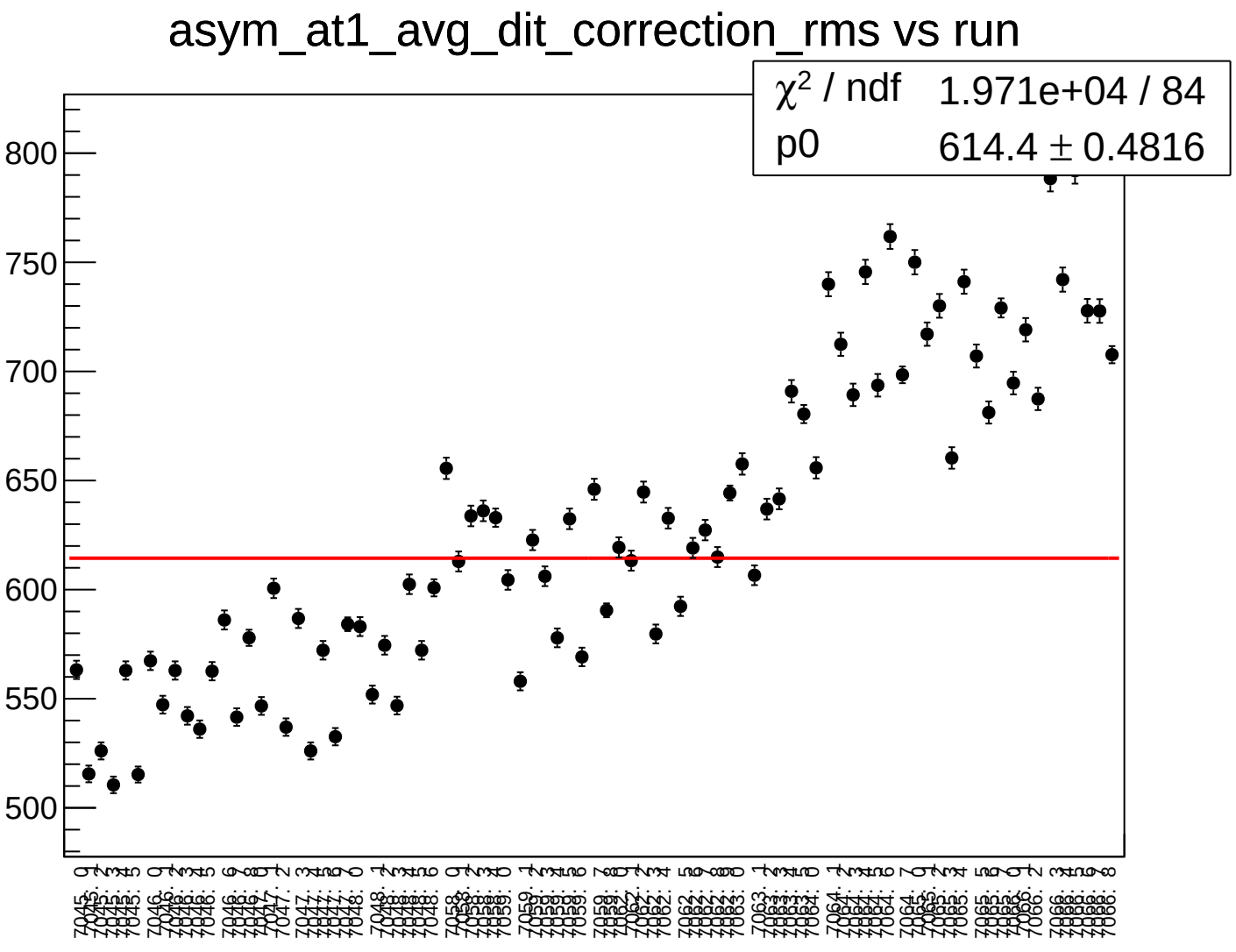

dit_asym_at1_avg_mean vs run
χ^2 / ndf 82.59 / 84
p0 −1656 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −668.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

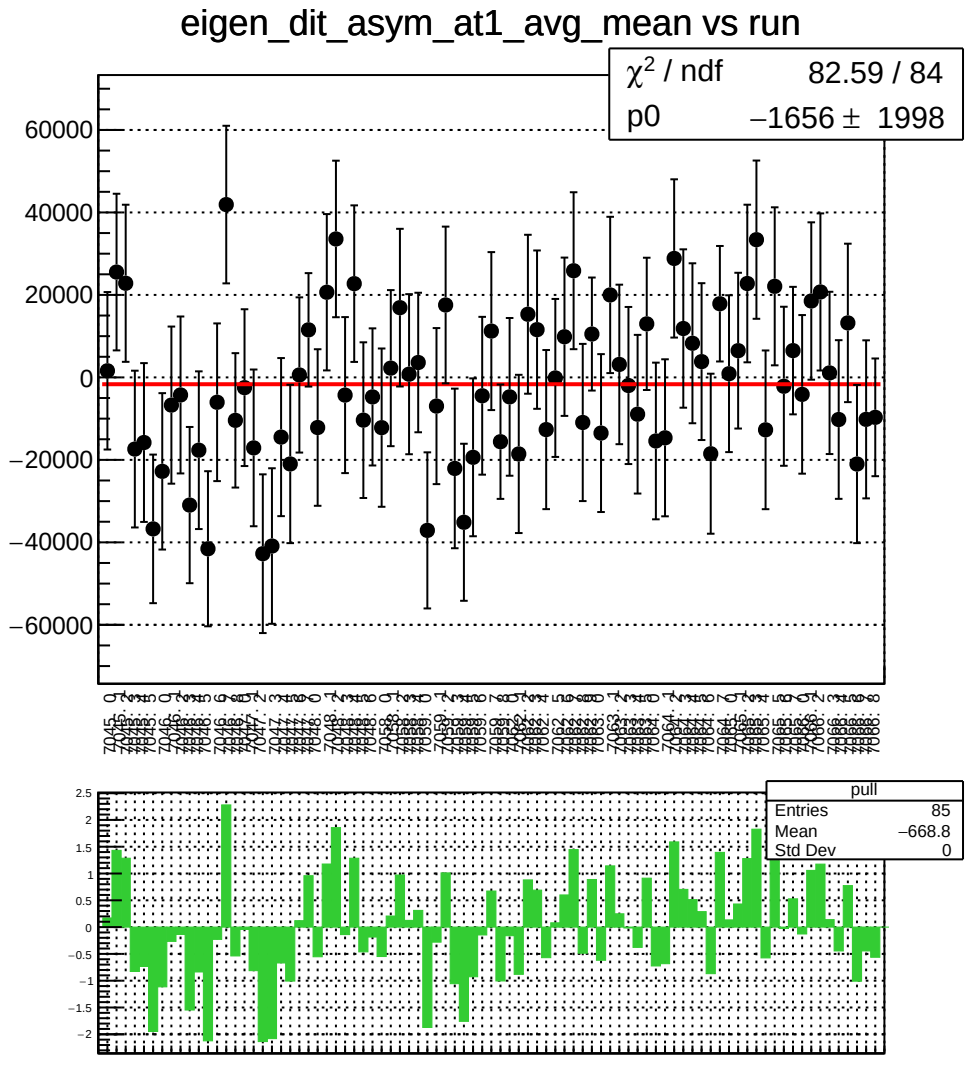

pull1D
Entries 85
Mean −0.0086
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

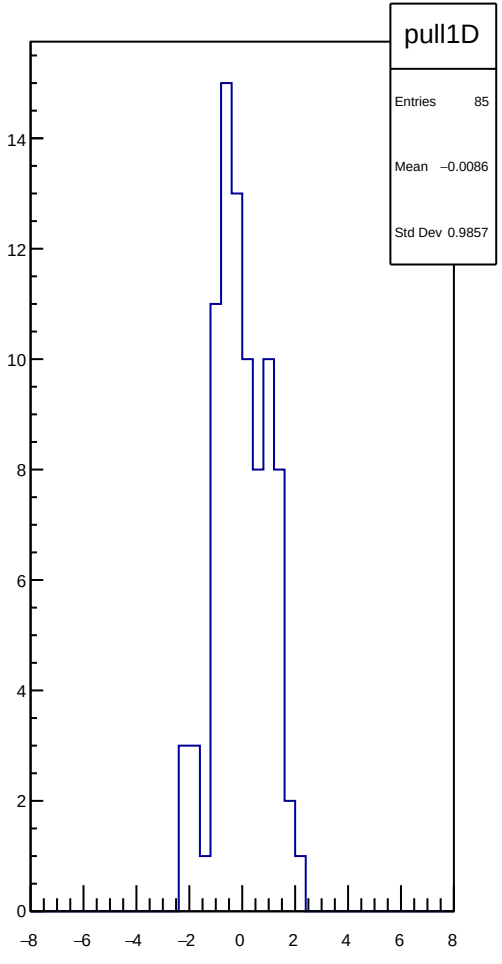

dit_asym_at1_avg_rms vs run
χ^2 / ndf 108 / 84
p0 1813 ± 1.413
1880
1860
1840
1820
1800
1780
1760

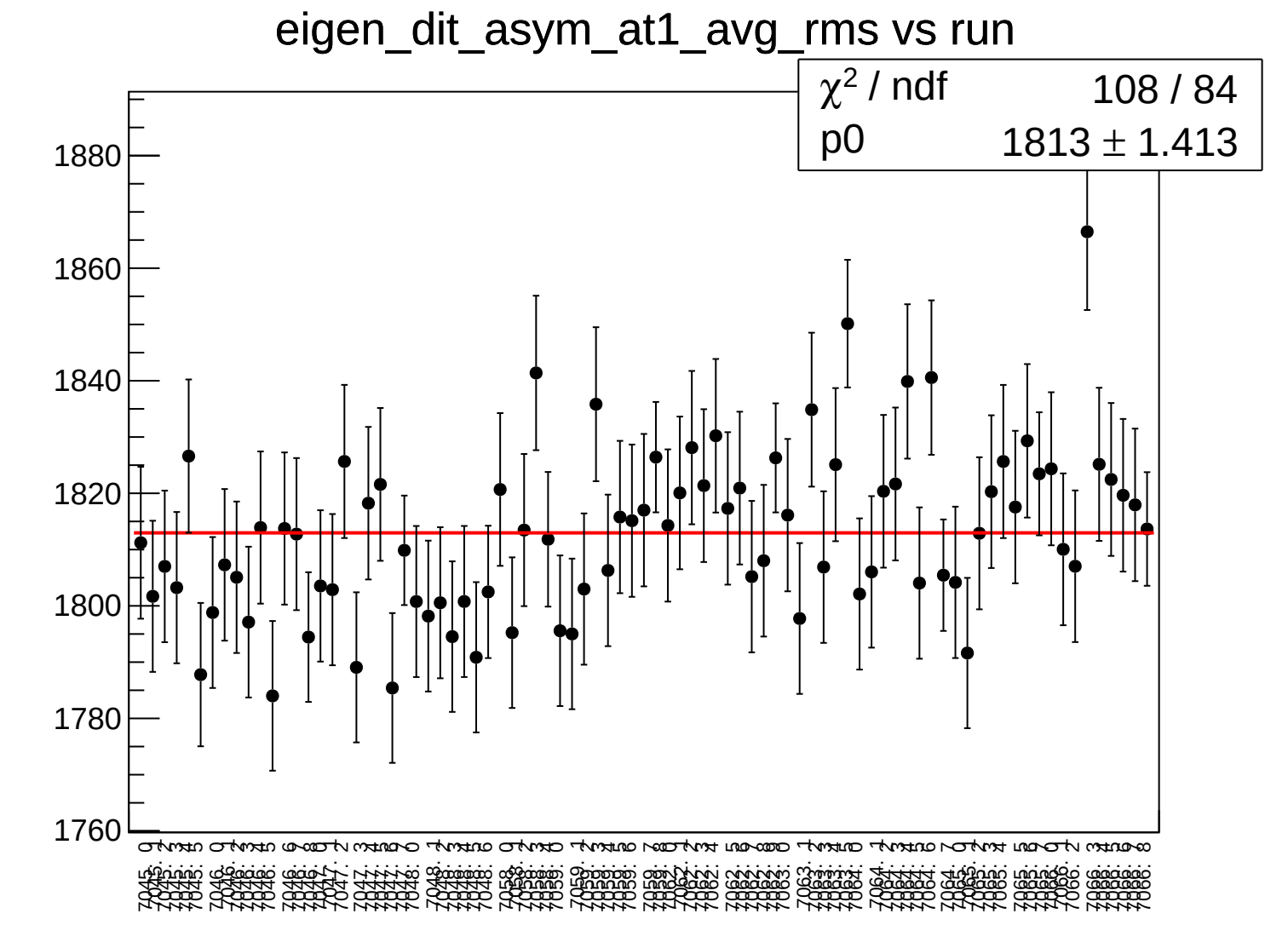

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 84.79 / 84
p0 −334.9 ± 681.1
pull
Entries 85
Mean 201.5
Std Dev 0

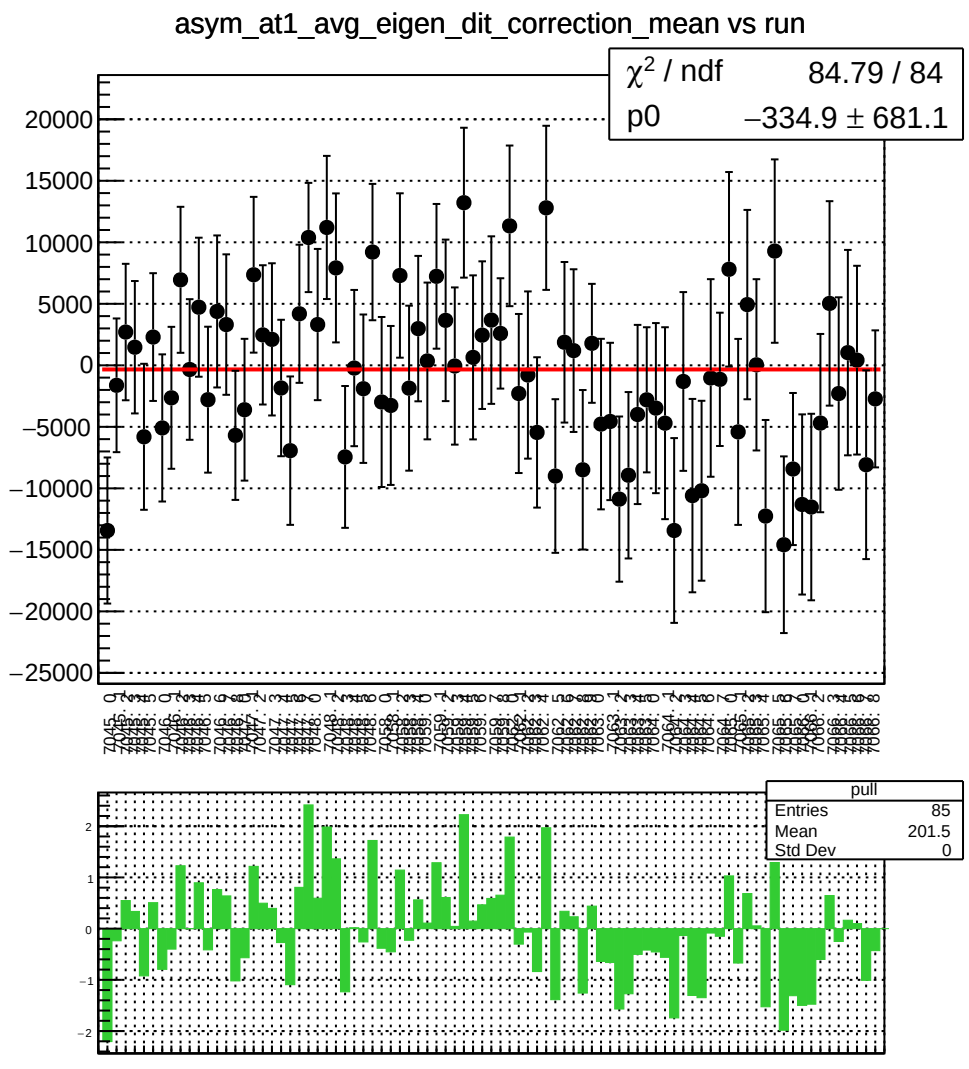

pull1D
Entries 85
Mean −0.04059
Std Dev 0.998

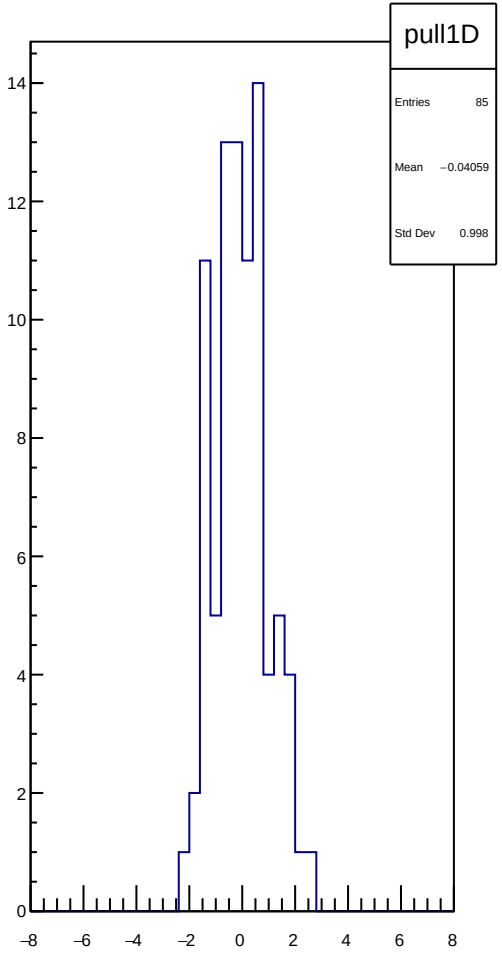

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.971e+04 / 84
p0 614.4 ± 0.4816
800
750
700
650
600
550
500

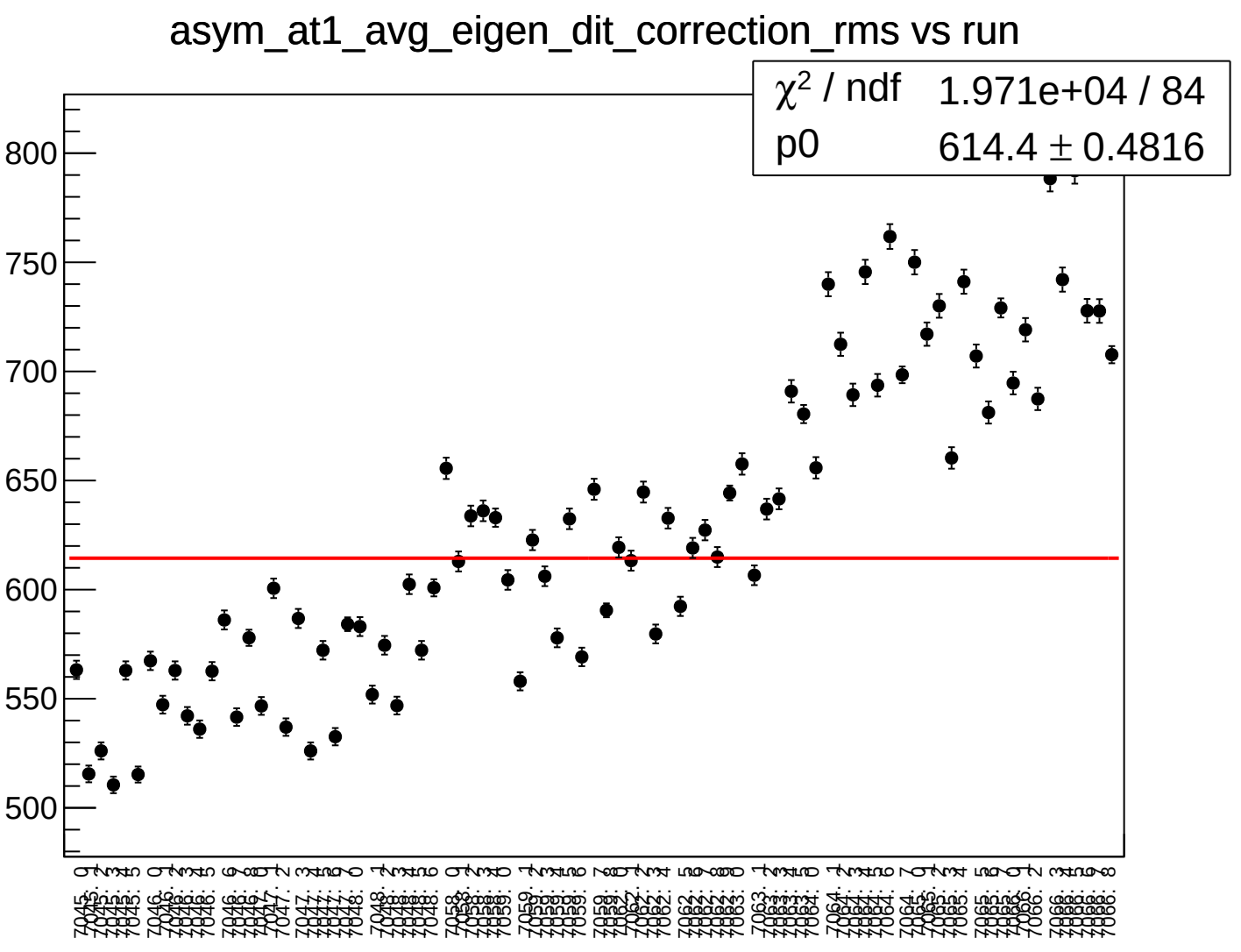

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 82.59 / 84
p0 −1656 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −668.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

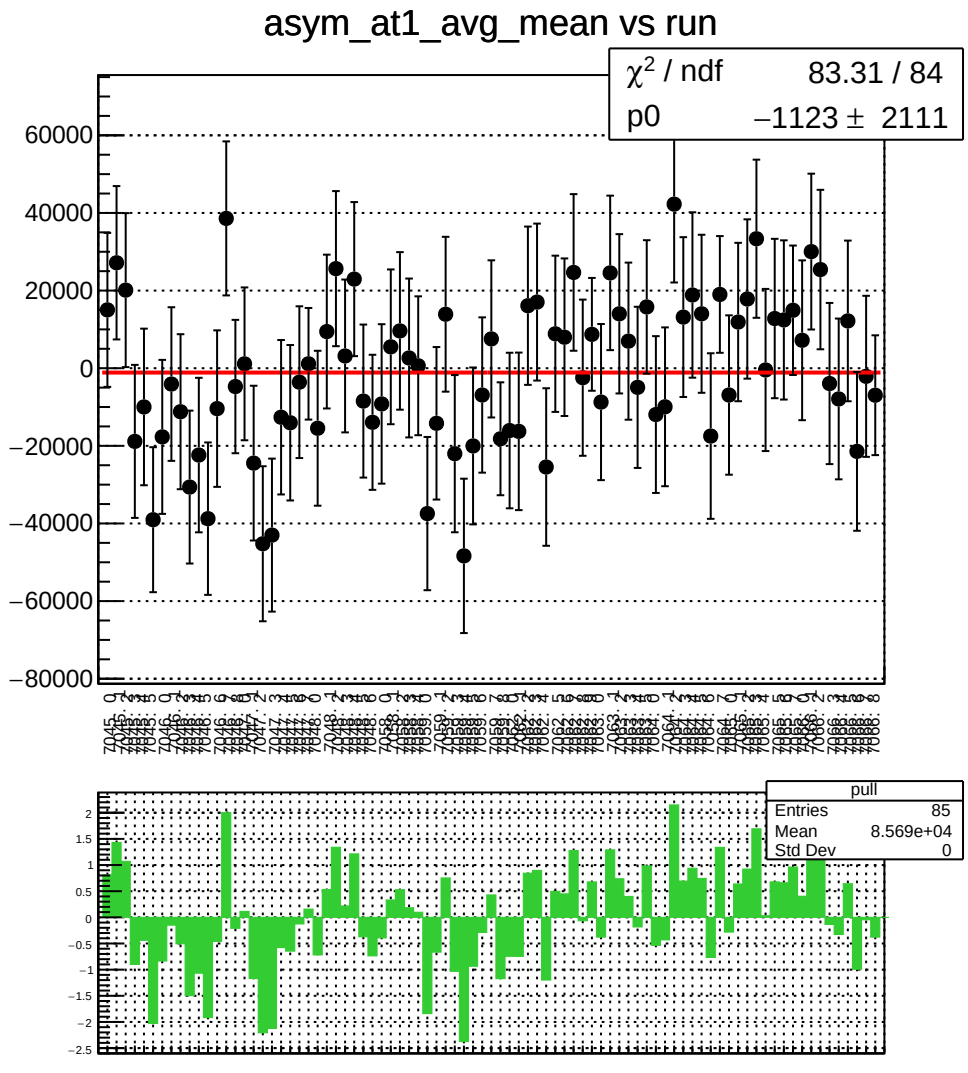

pull1D
Entries 85
Mean −0.0086
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

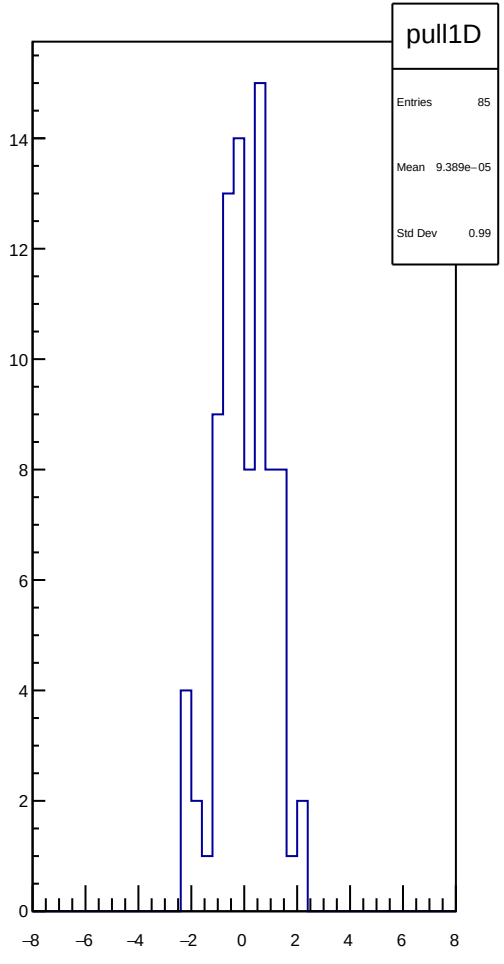

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 108 / 84
p0 1813 ± 1.413
1880
1860
1840
1820
1800
1780
1760

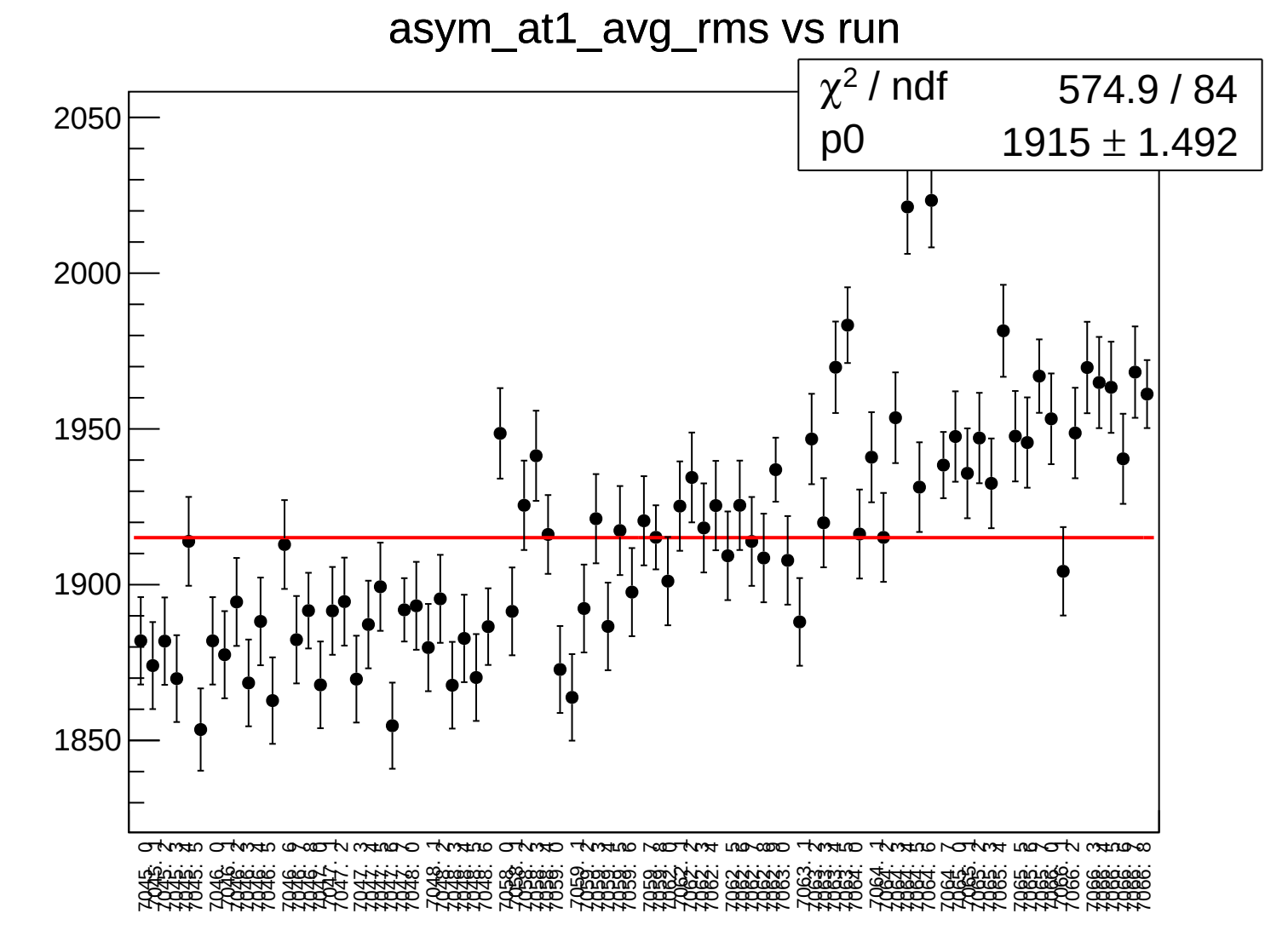

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.79 / 84
p0 −334.9 ± 681.1
pull
Entries 85
Mean 201.5
Std Dev 0

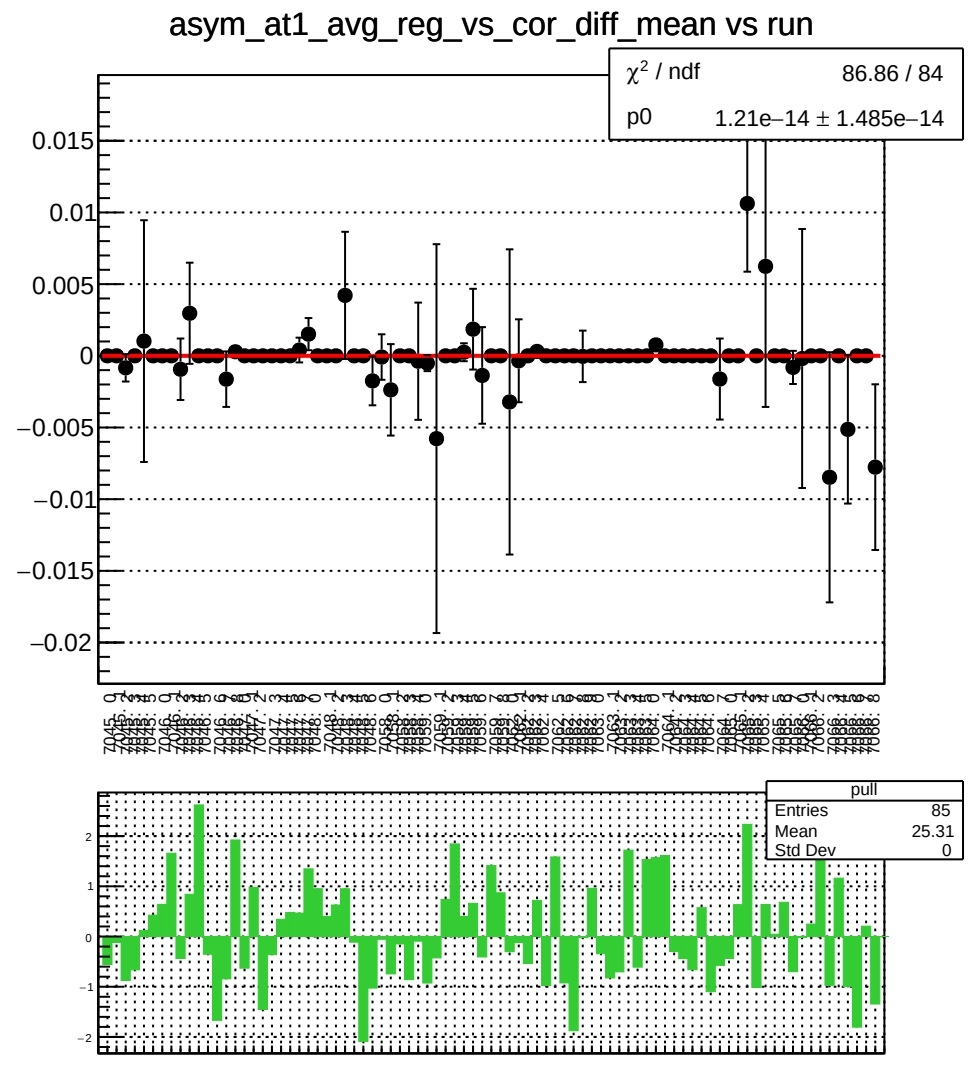

pull1D
Entries 85
Mean −0.04059
Std Dev 0.998

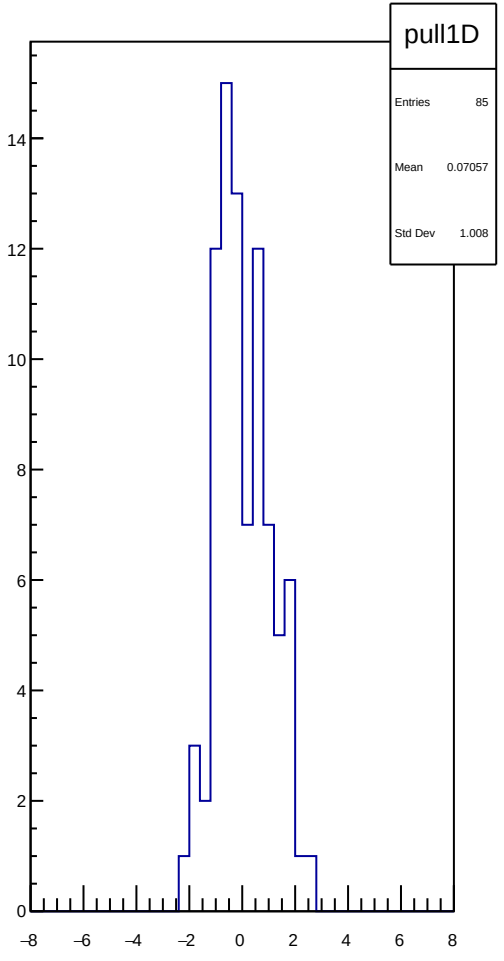

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.971e+04 / 84
p0 614.4 ± 0.4816
800
750
700
650
600
550
500

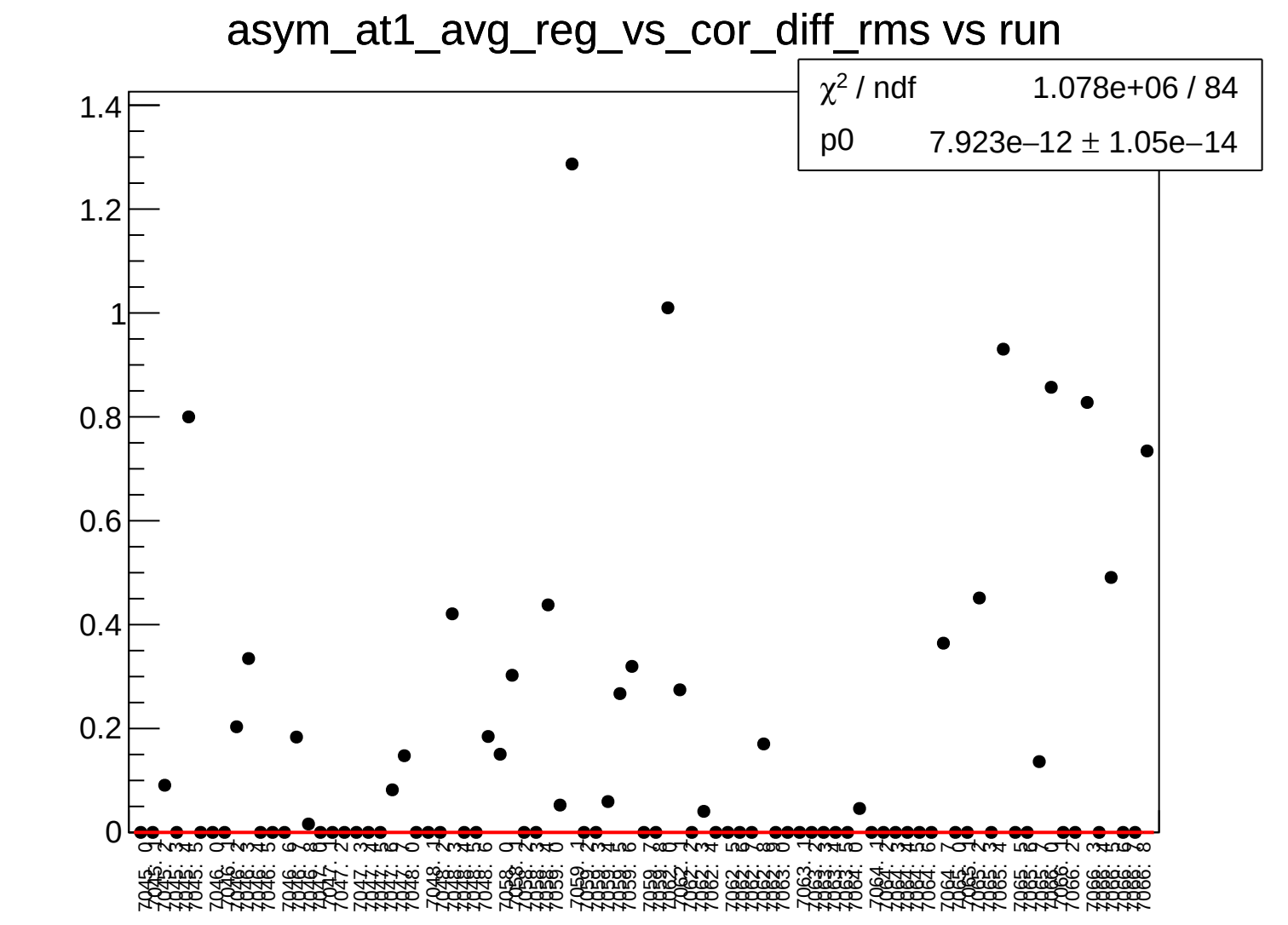

asym_at1_avg_mean vs run
χ^2 / ndf 83.31 / 84
p0 −1123 ± 2111
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 8.569e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

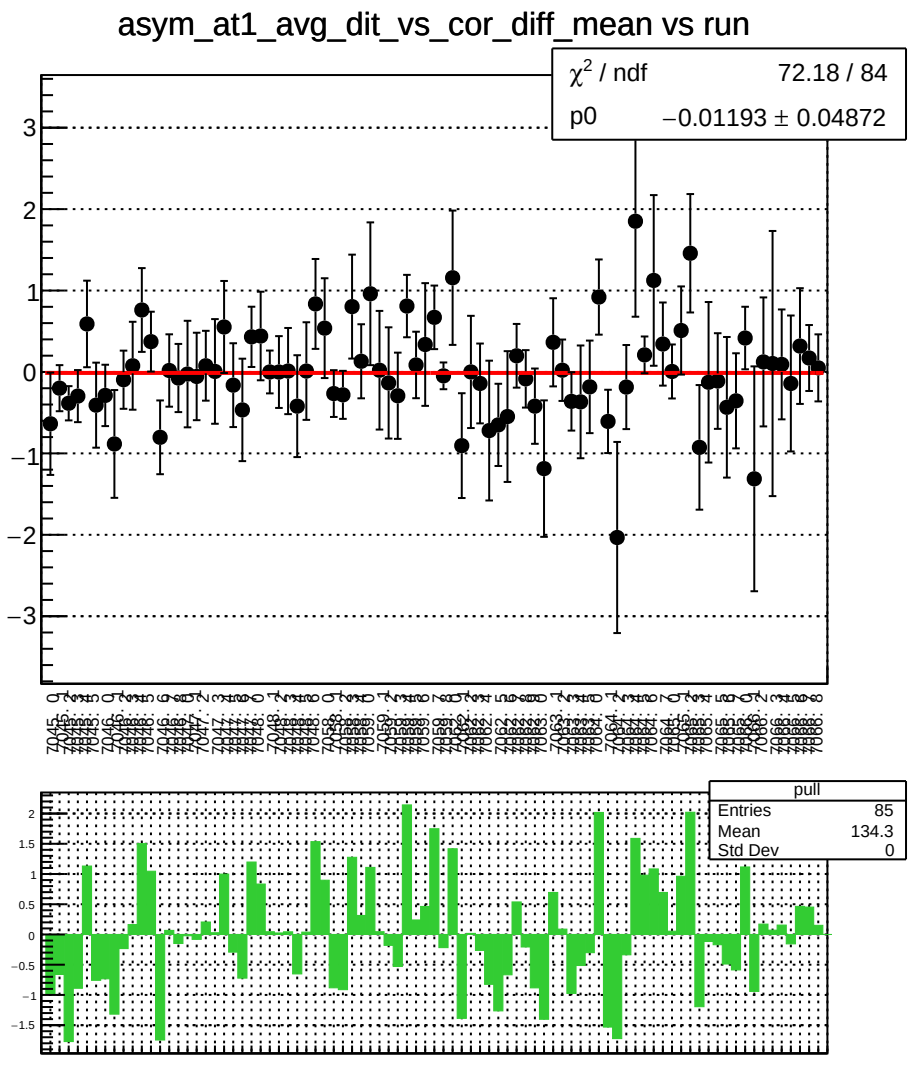

pull1D
Entries 85
Mean 9.389e−05
Std Dev 0.99
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

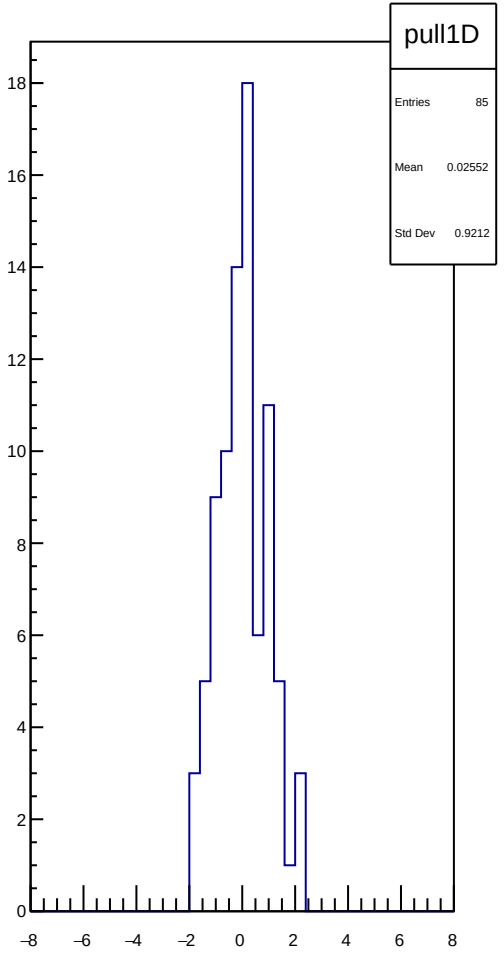

asym_at1_avg_rms vs run
χ^2 / ndf 574.9 / 84
p0 1915 ± 1.492
2050
2000
1950
1900
1850

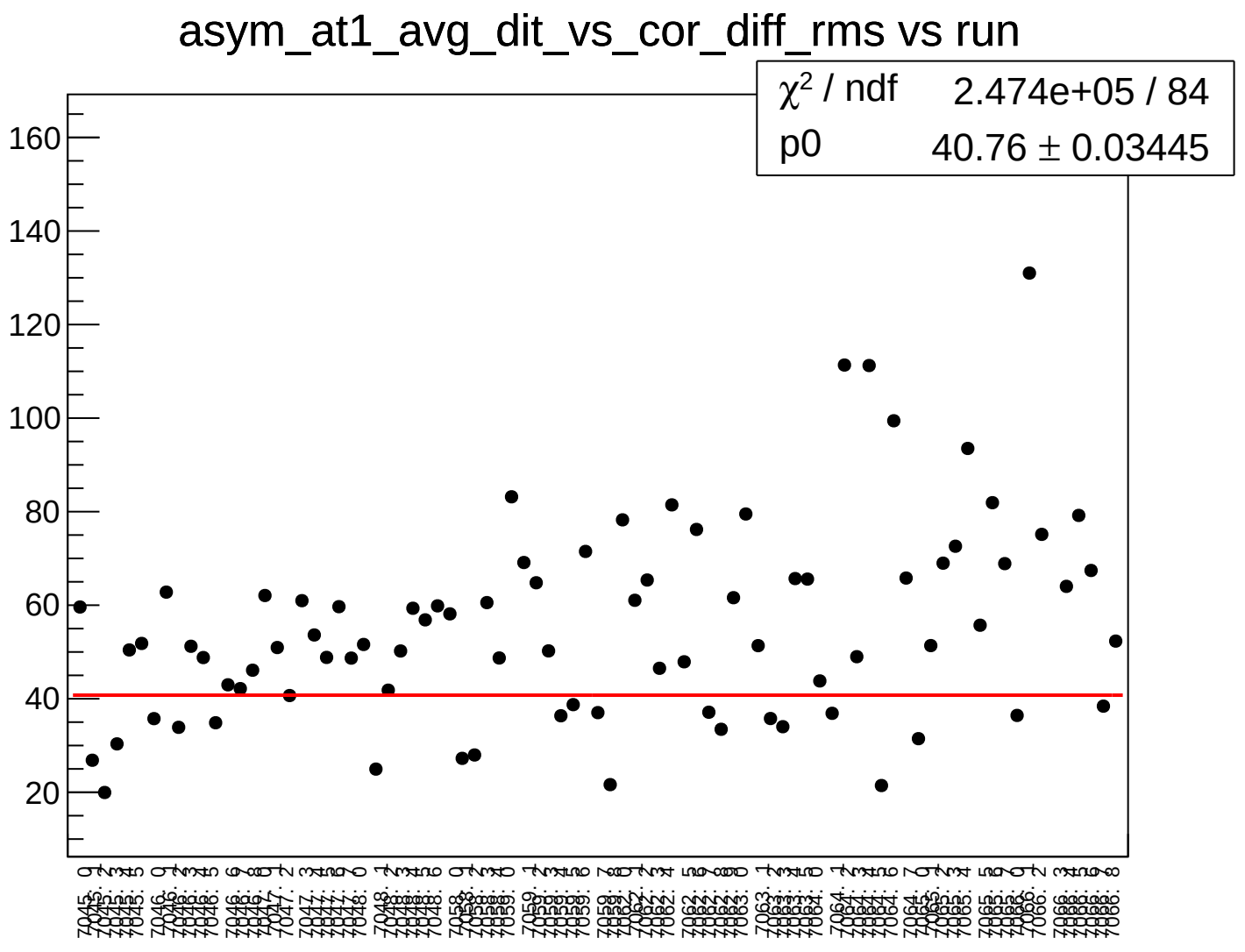

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.86 / 84
p0 1.21e−14 ± 1.485e−14
pull
Entries 85
Mean 25.31
Std Dev 0

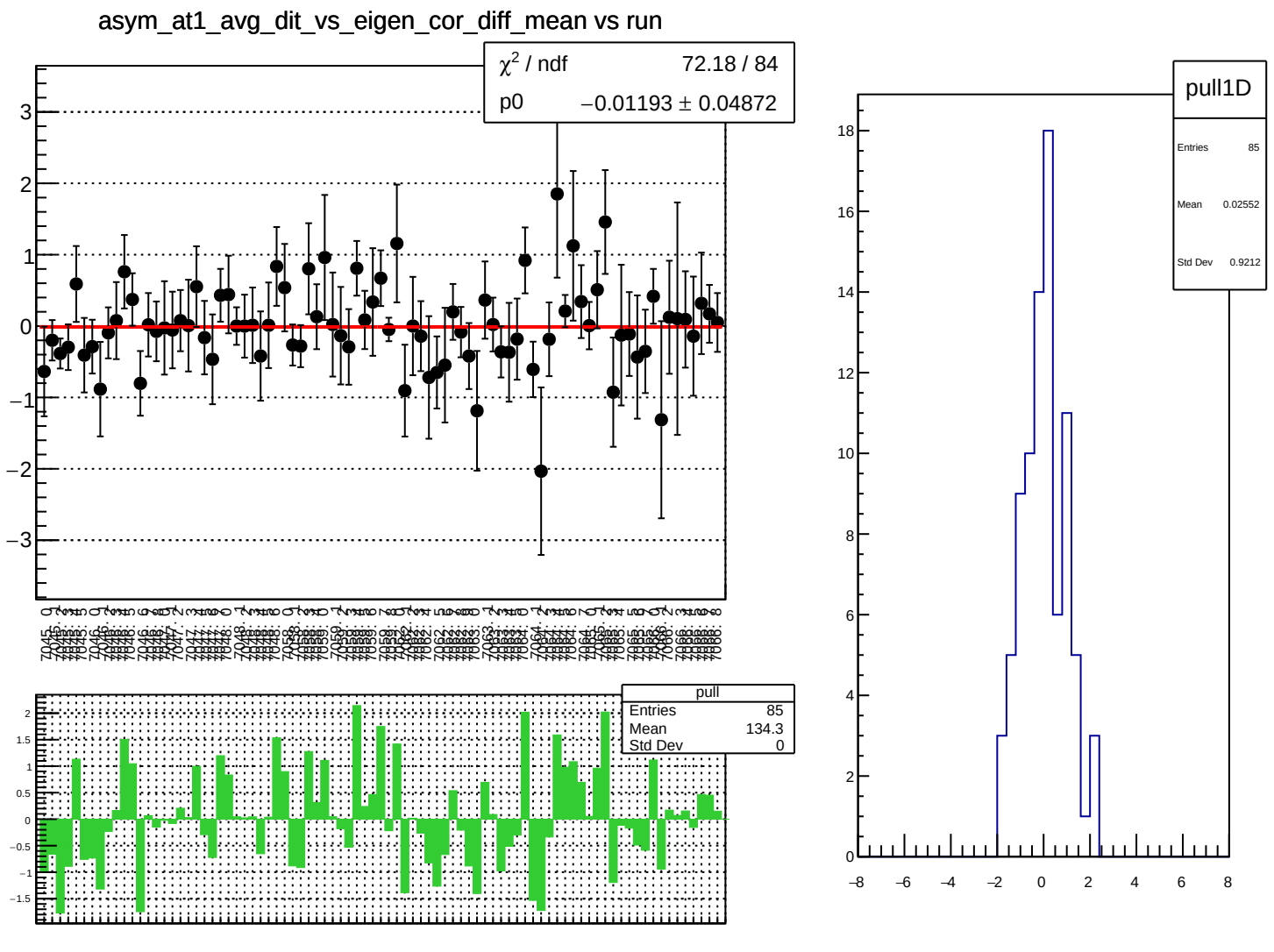

pull1D
Entries 85
Mean 0.07057
Std Dev 1.008

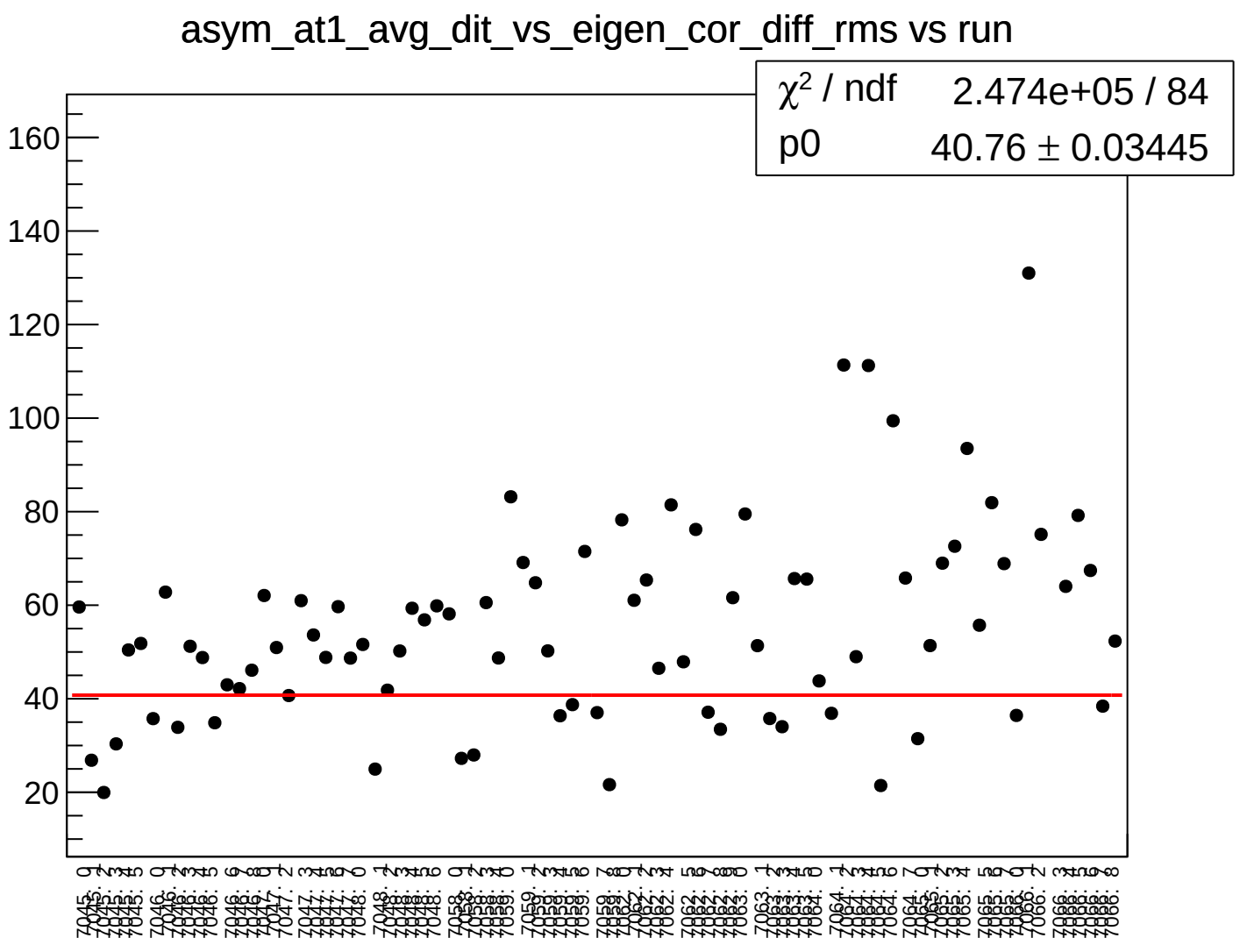

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.078e+06 / 84
p0 7.923e−12 ± 1.05e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

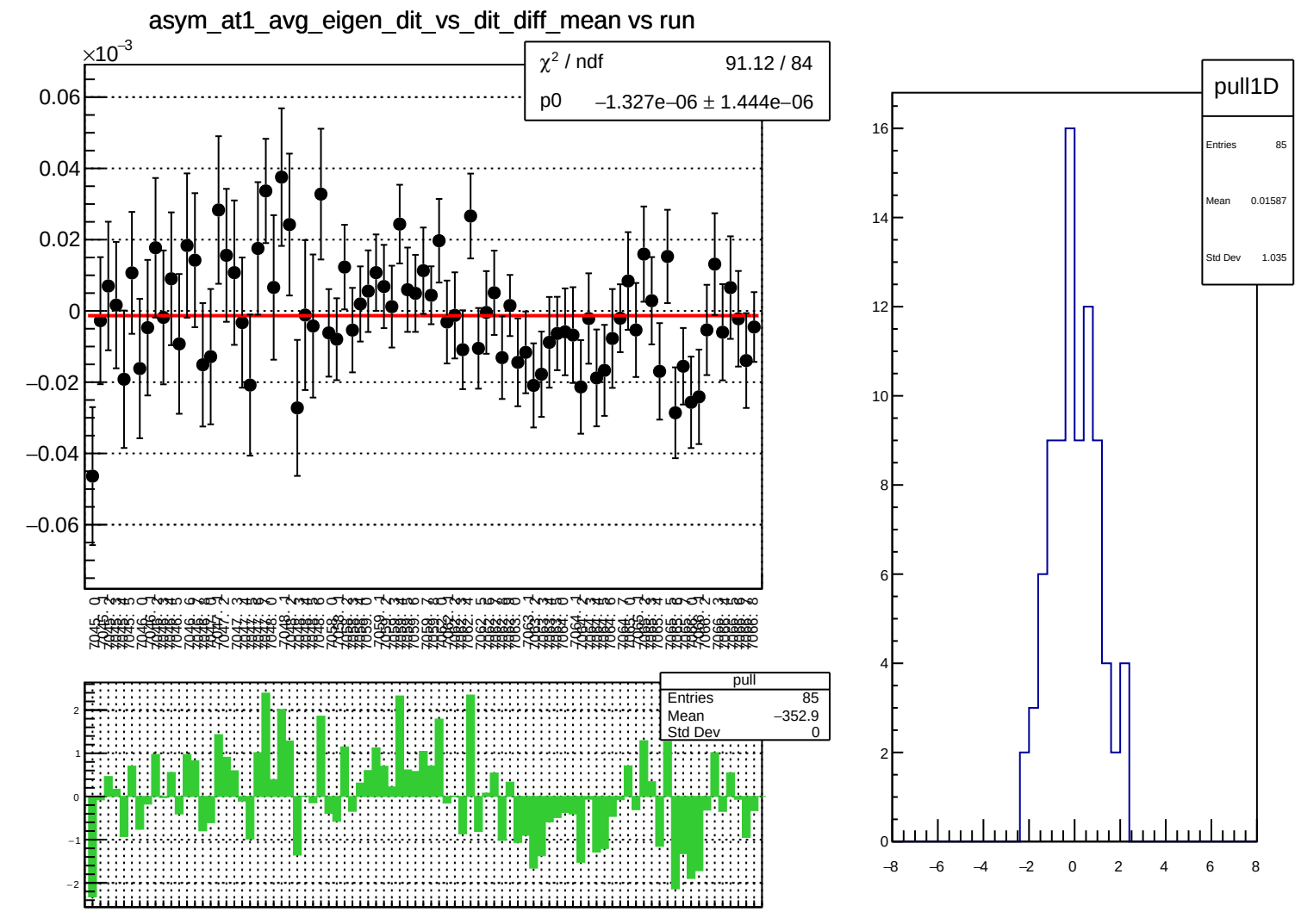

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.18 / 84
p0 −0.01193 ± 0.04872
pull
Entries 85
Mean 134.3
Std Dev 0

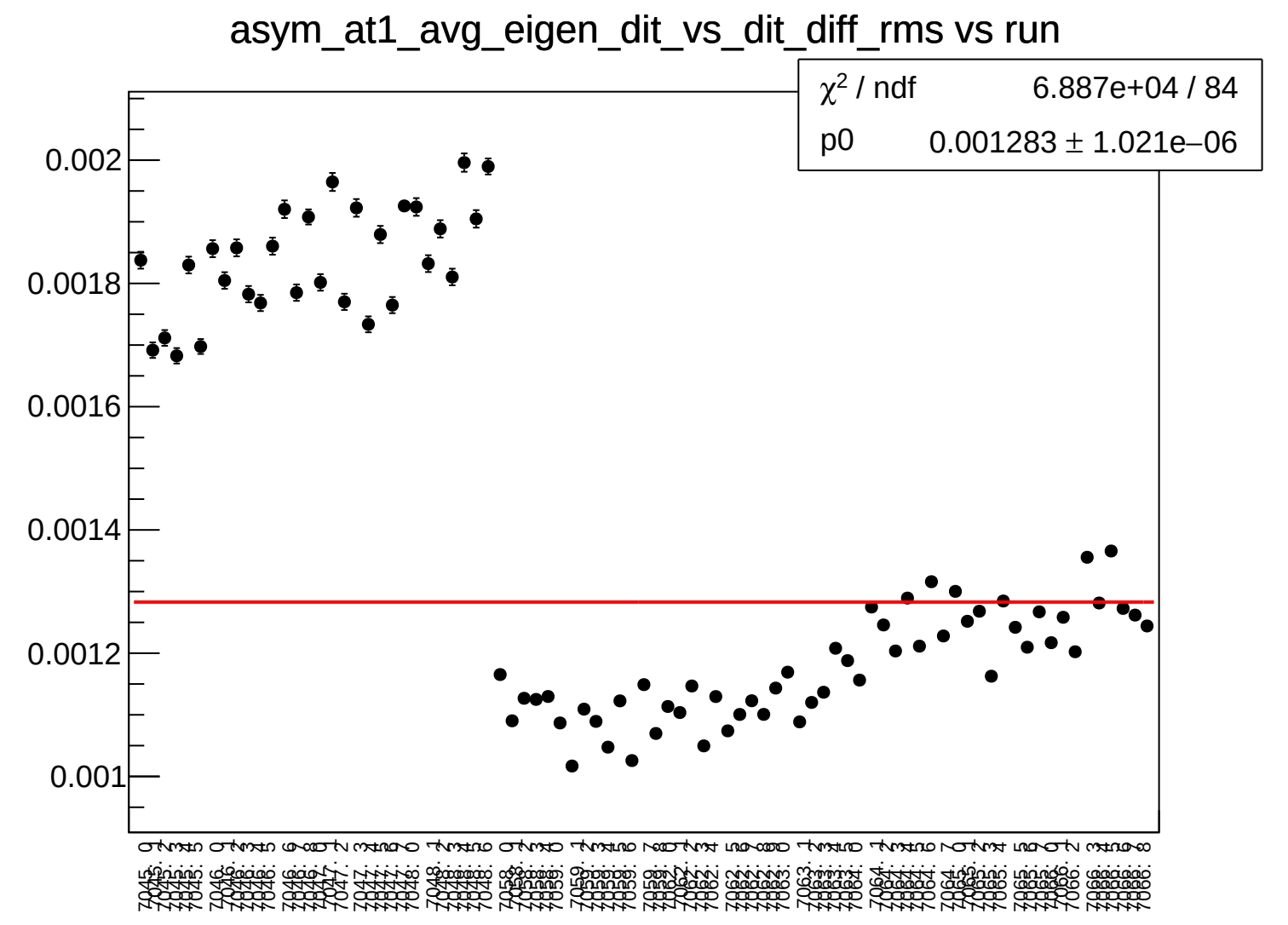

pull1D
Entries 85
Mean 0.02552
Std Dev 0.9212

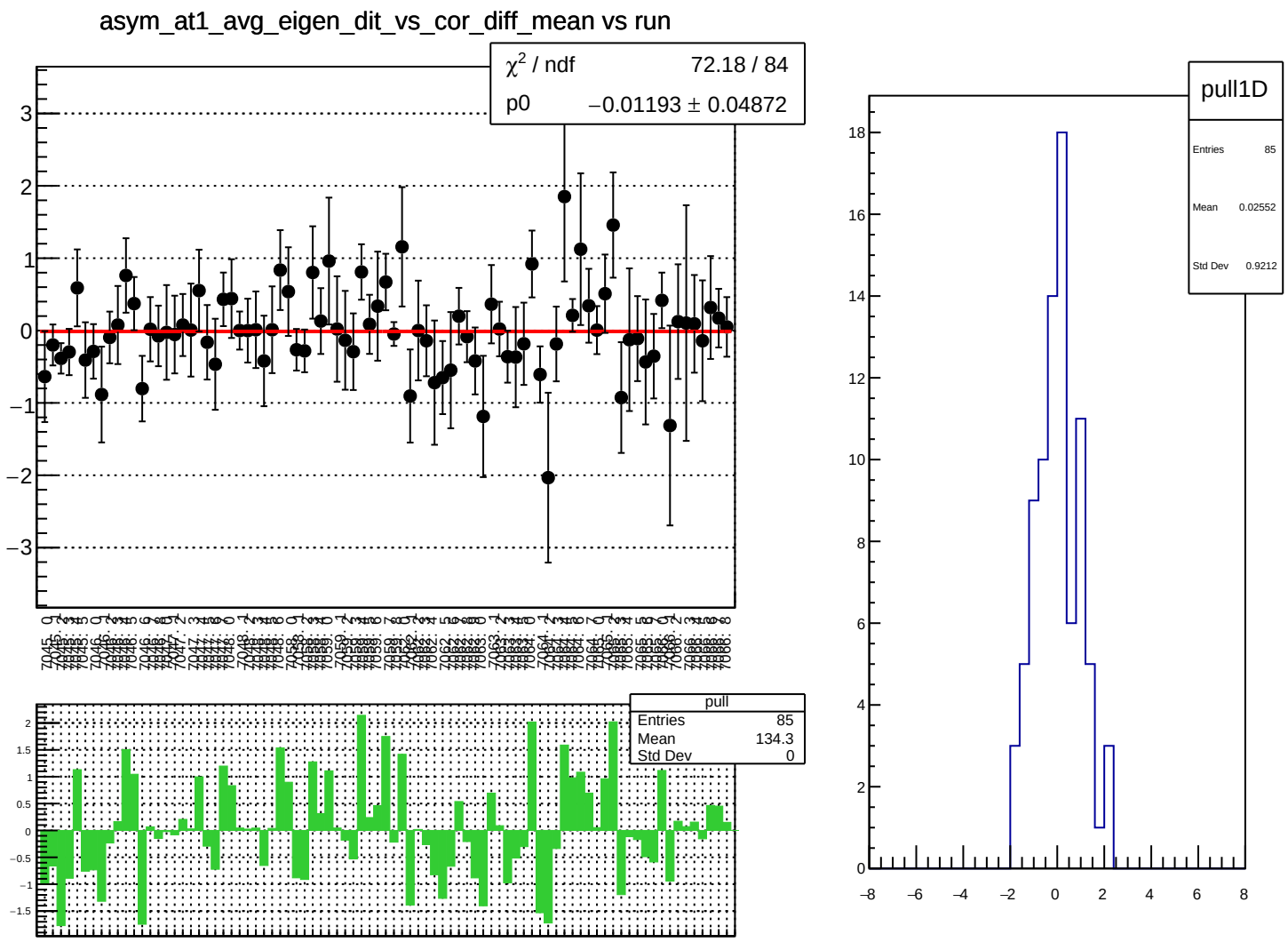

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 84
p0 40.76 ± 0.03445
160
140
120
100
80
60
40
20

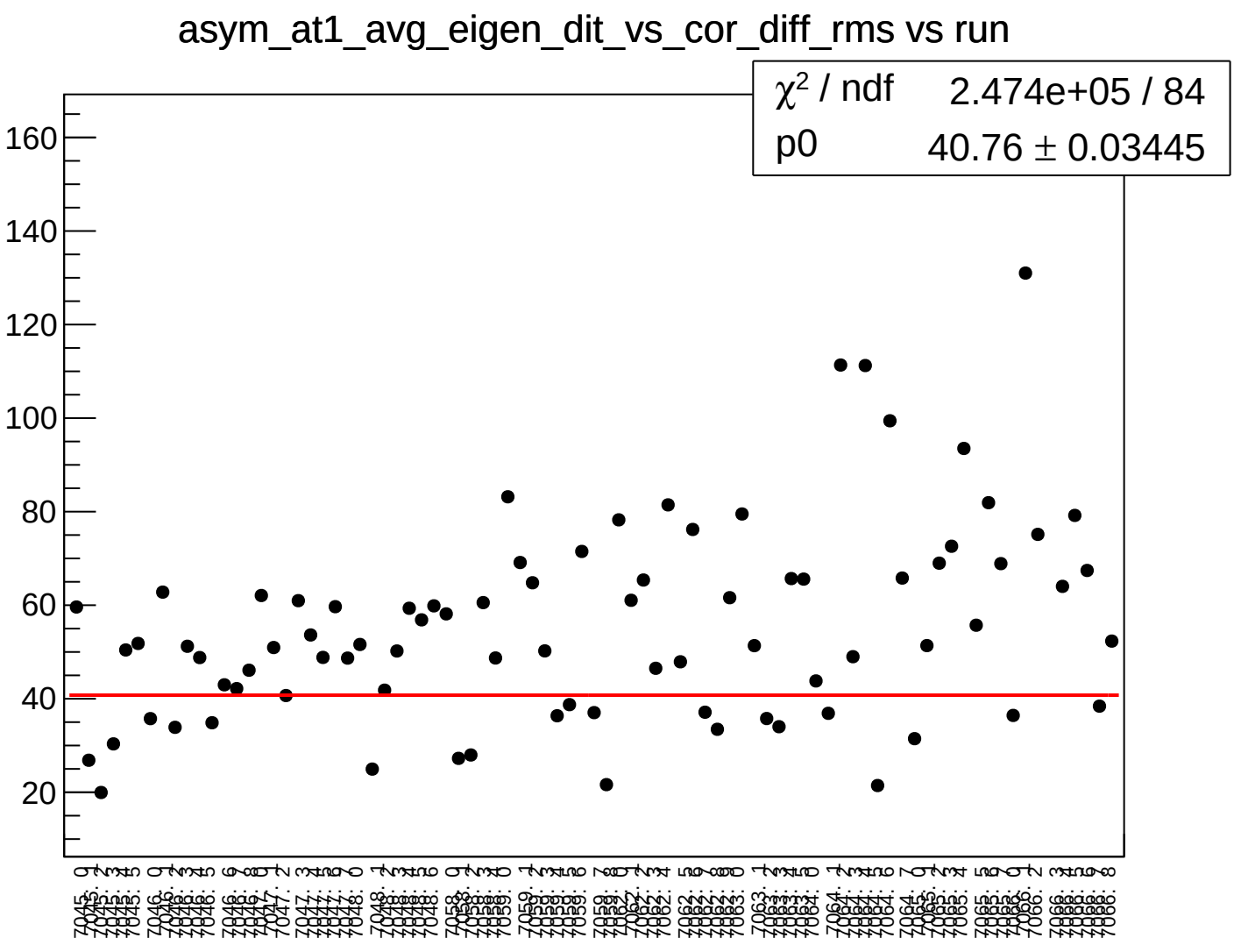

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.18 / 84
p0 −0.01193 ± 0.04872
pull
Entries 85
Mean 134.3
Std Dev 0
pull1D
Entries 85
Mean 0.02552
Std Dev 0.9212

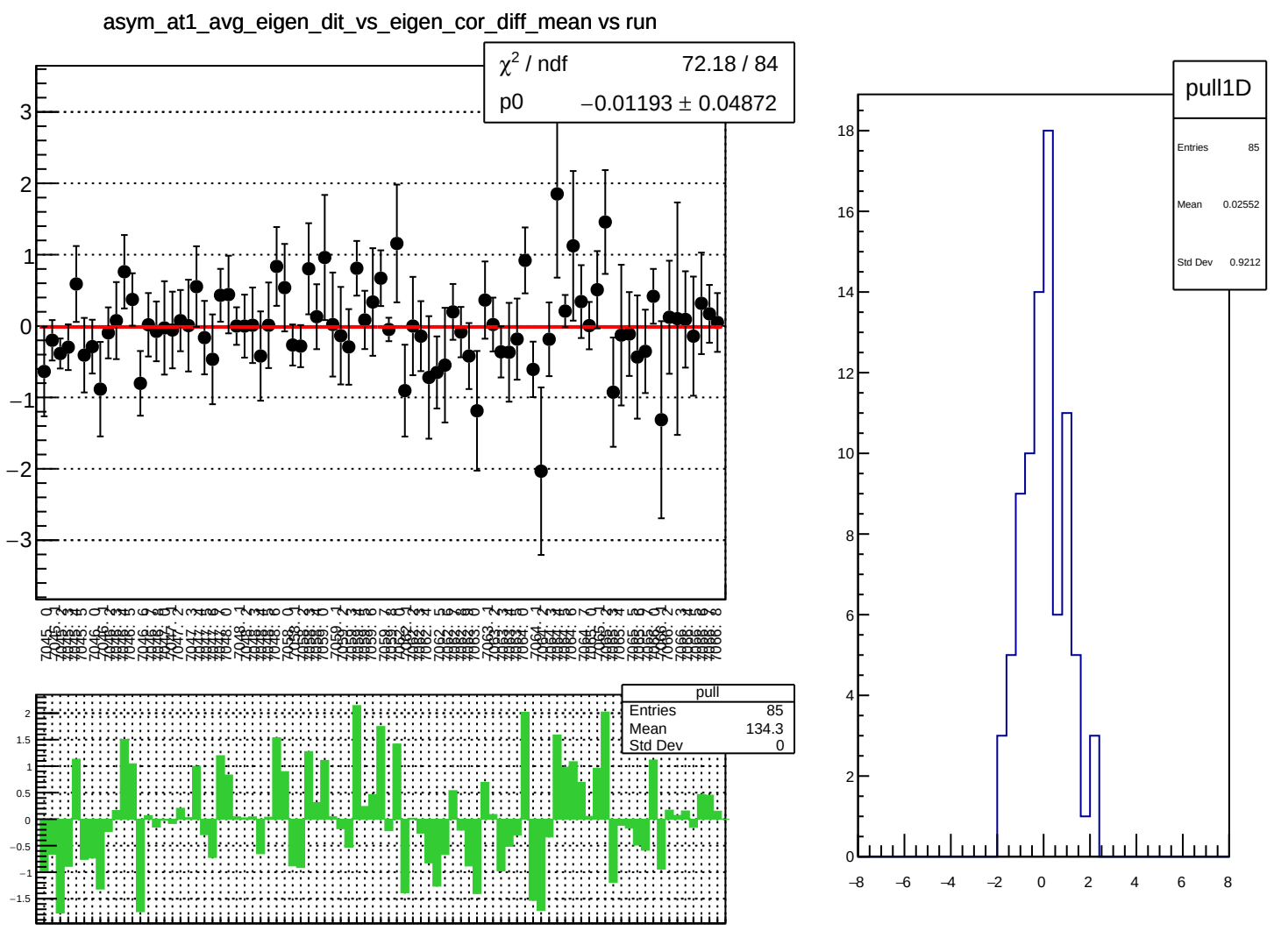

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 84
p0 40.76 ± 0.03445
160
140
120
100
80
60
40
20

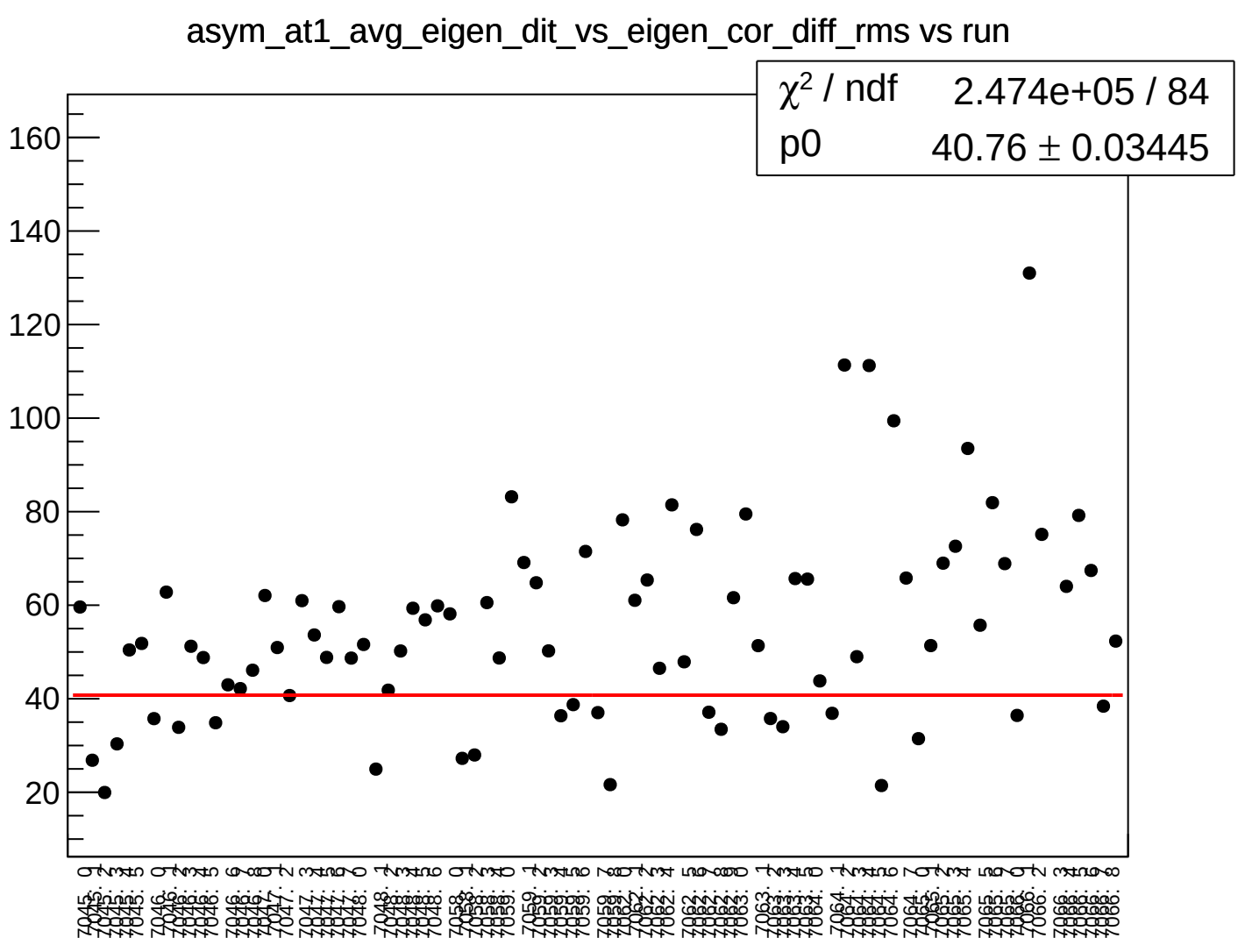

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.12 / 84
p0 −1.327e−06 ± 1.444e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean −352.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01587
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

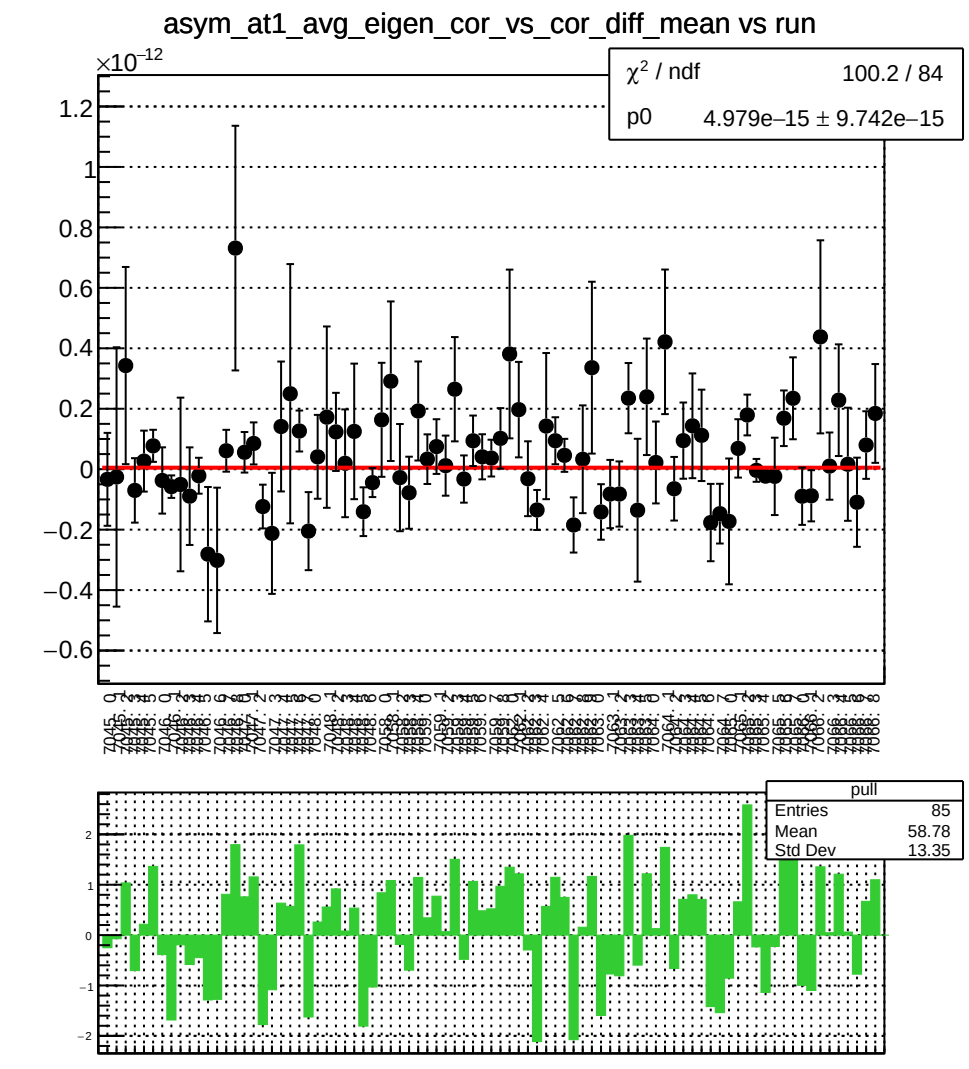

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.887e+04 / 84
p0 0.001283 ± 1.021e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001

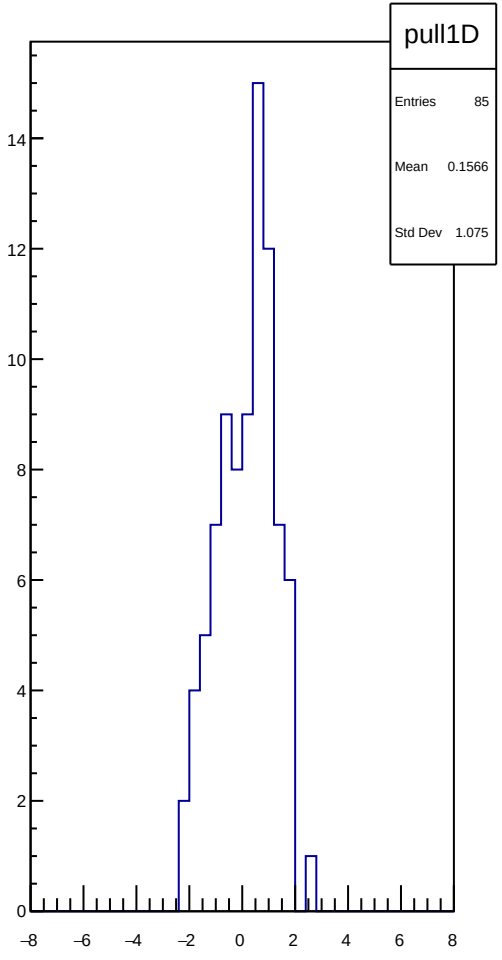

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.18 / 84
p0 −0.01193 ± 0.04872
pull
Entries 85
Mean 134.3
Std Dev 0
pull1D
Entries 85
Mean 0.02552
Std Dev 0.9212

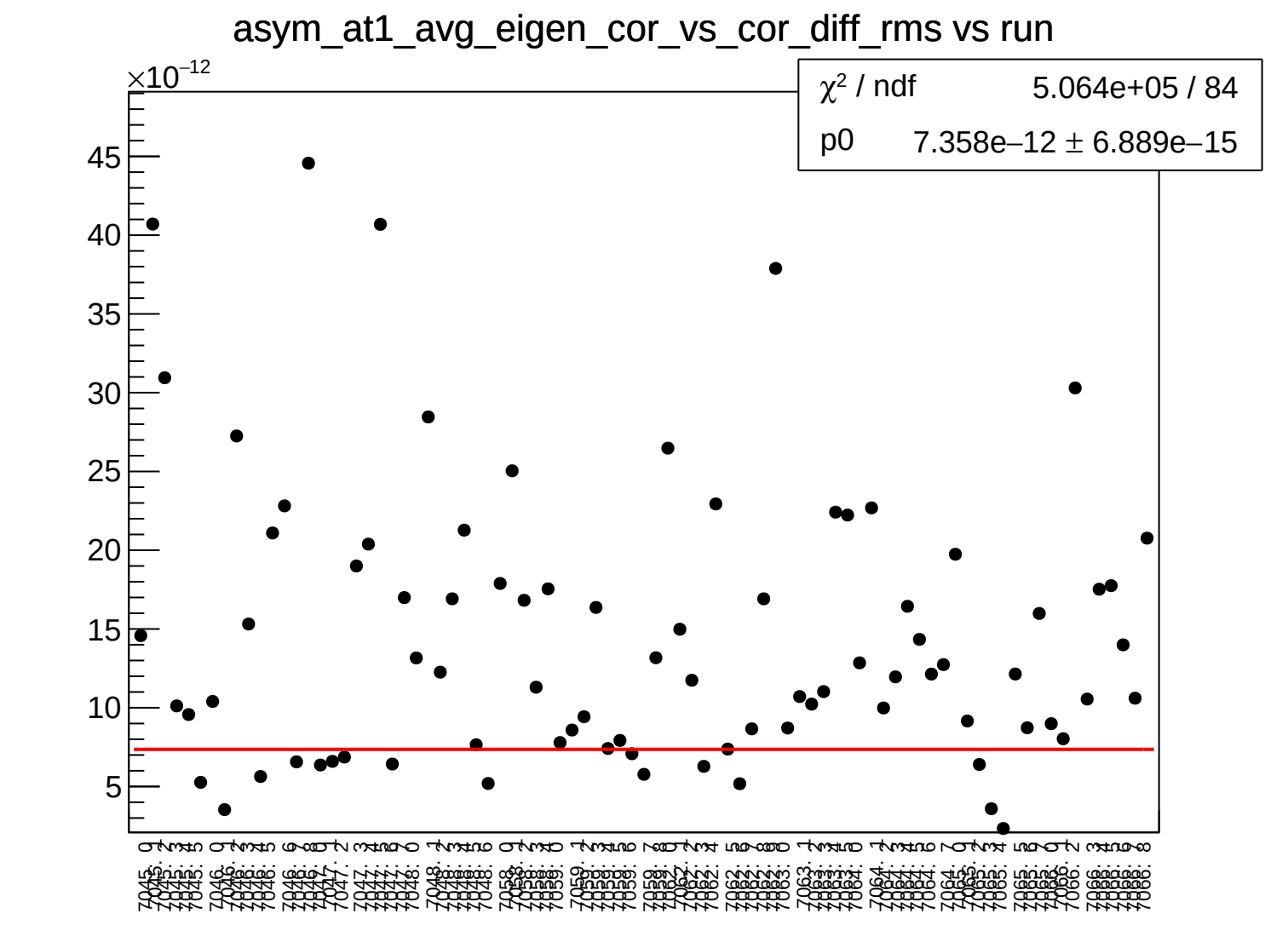

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 84
p0 40.76 ± 0.03445
160
140
120
100
80
60
40
20

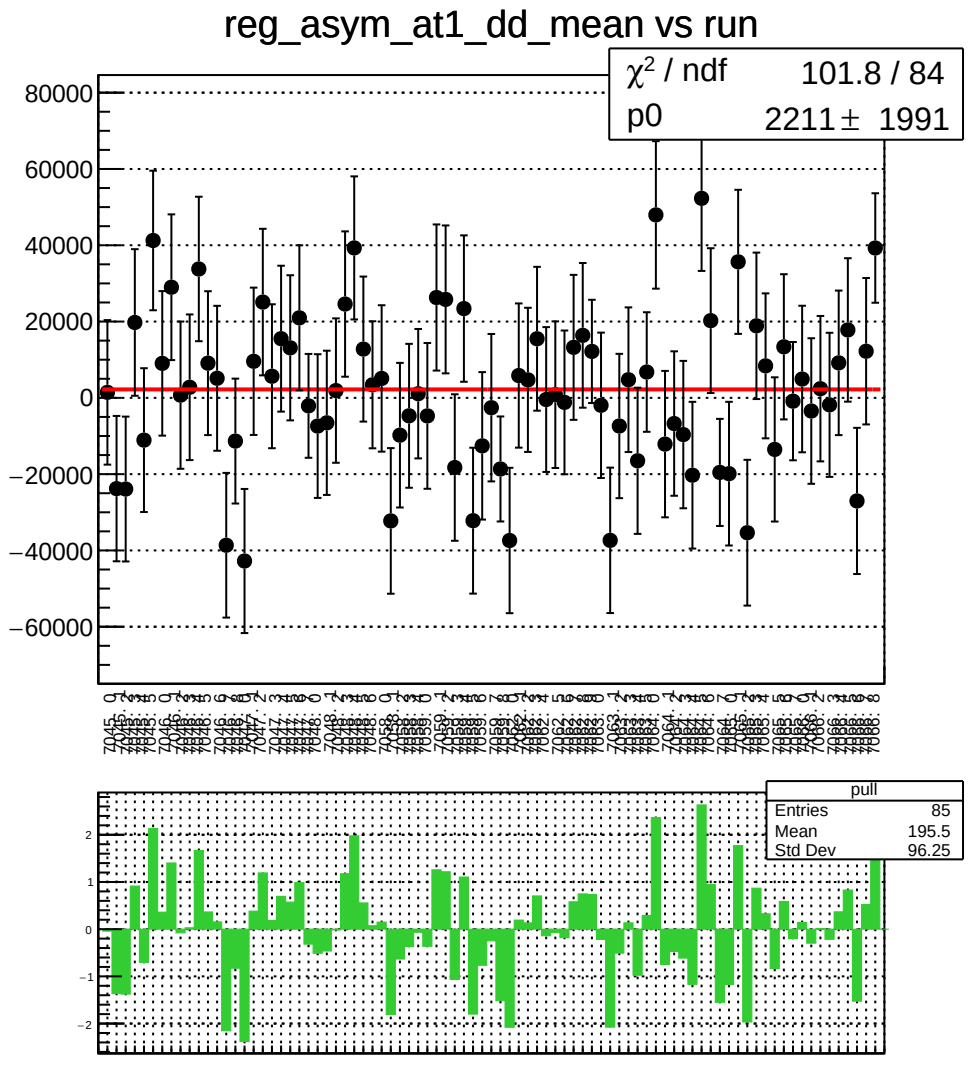

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.18 / 84
p0 −0.01193 ± 0.04872
pull
Entries 85
Mean 134.3
Std Dev 0
pull1D
Entries 85
Mean 0.02552
Std Dev 0.9212

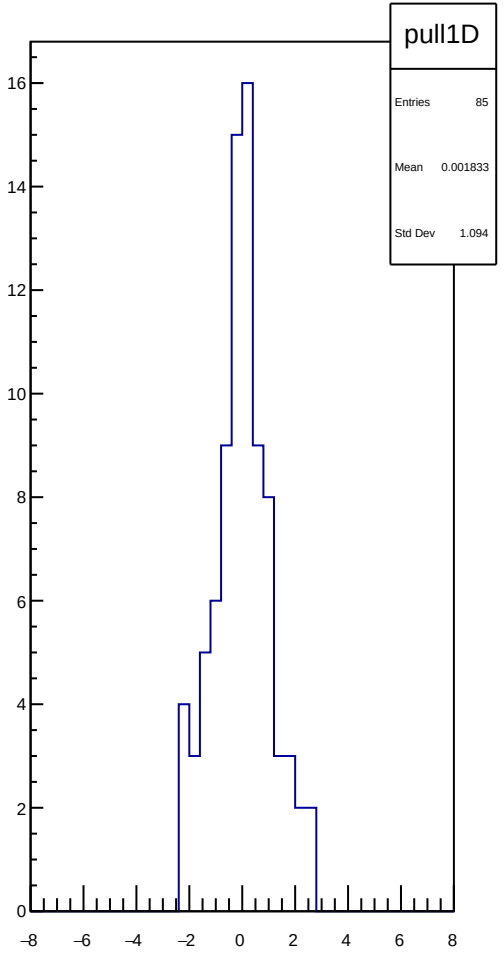

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 84
p0 40.76 ± 0.03445
160
140
120
100
80
60
40
20

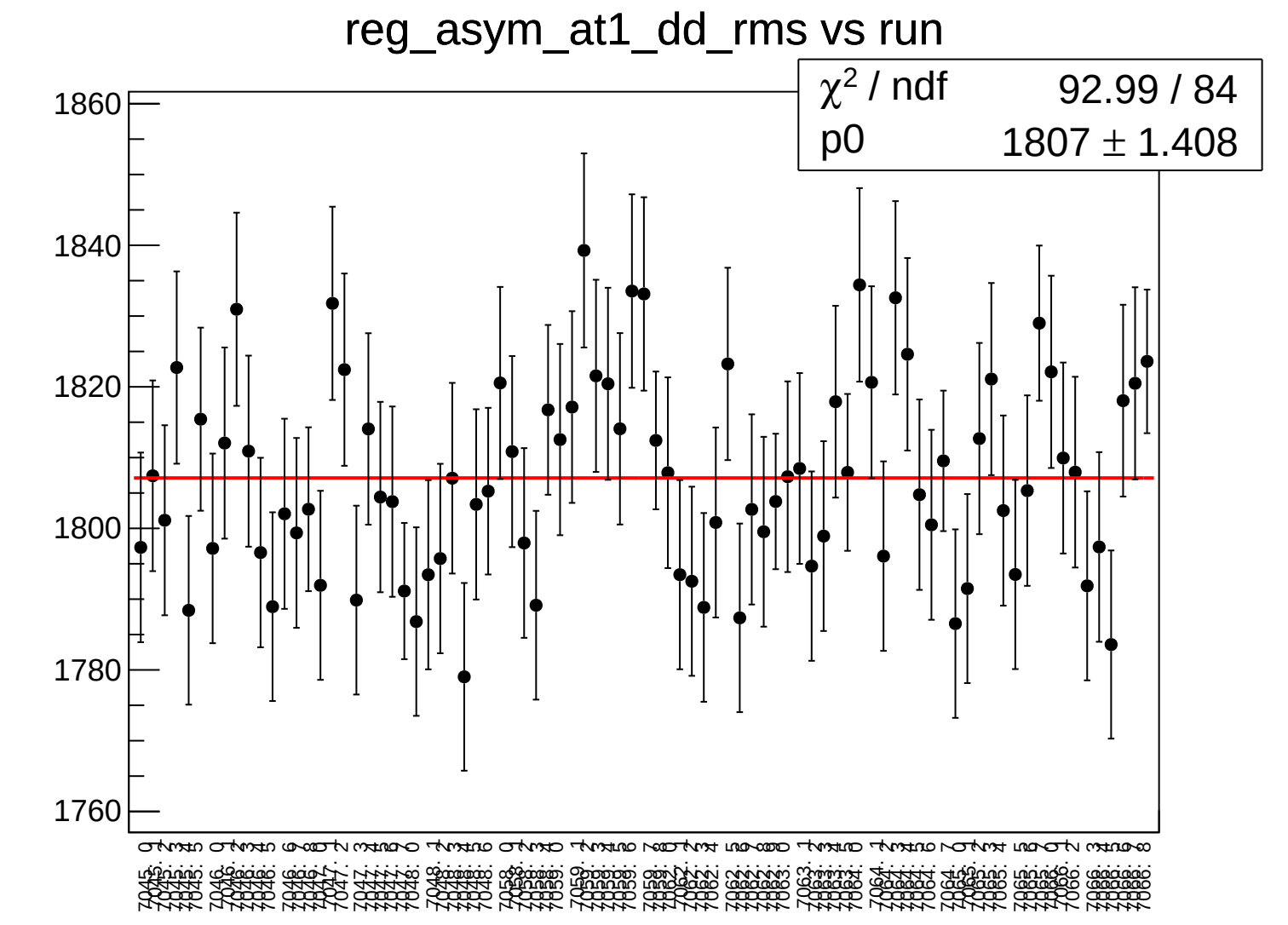

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.2 / 84
p0 4.979e−15 ± 9.742e−15
pull
Entries 85
Mean 58.78
Std Dev 13.35

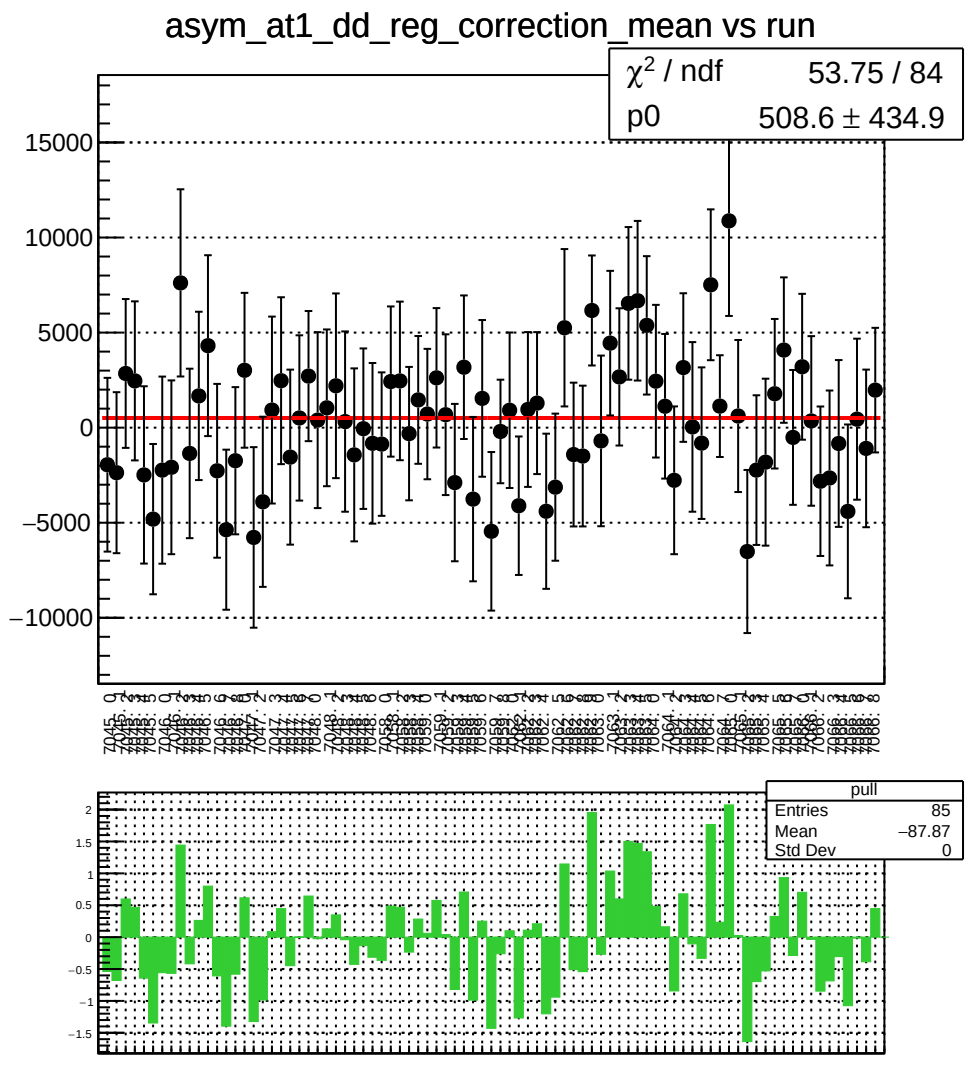

pull1D
Entries 85
Mean 0.1566
Std Dev 1.075

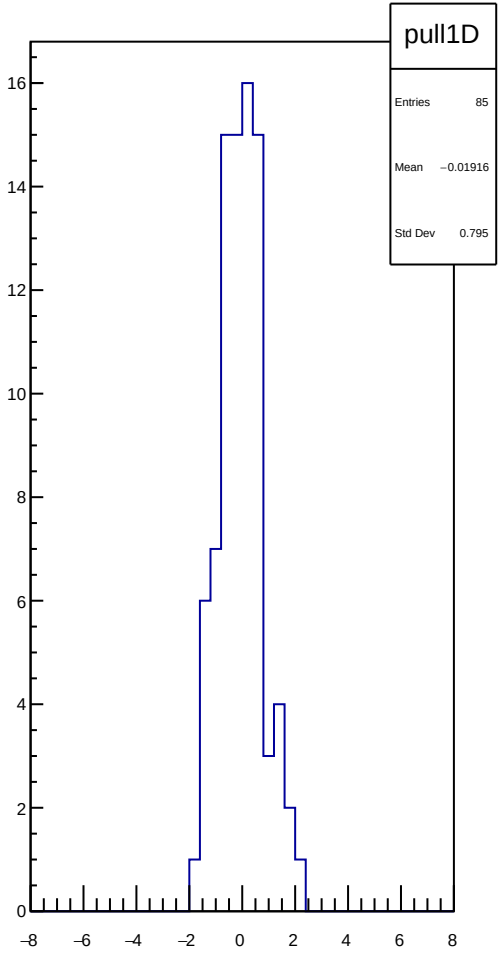

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.064e+05 / 84
p0 7.358e−12 ± 6.889e−15
45
40
35
30
25
20
15
10
5

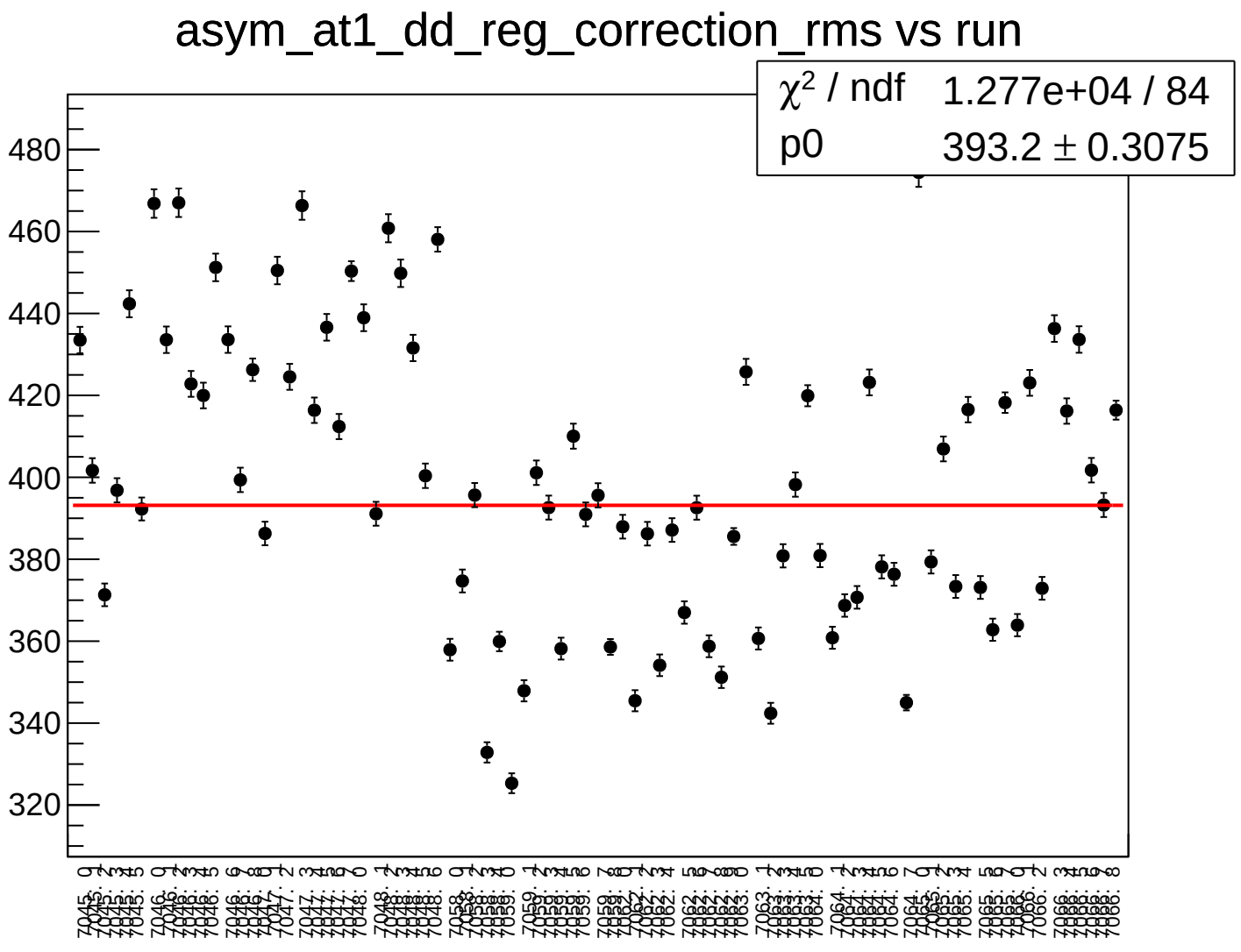

reg_asym_at1_dd_mean vs run
χ² / ndf 101.8 / 84
p0 2211 ± 1991
pull
Entries 85
Mean 195.5
Std Dev 96.25

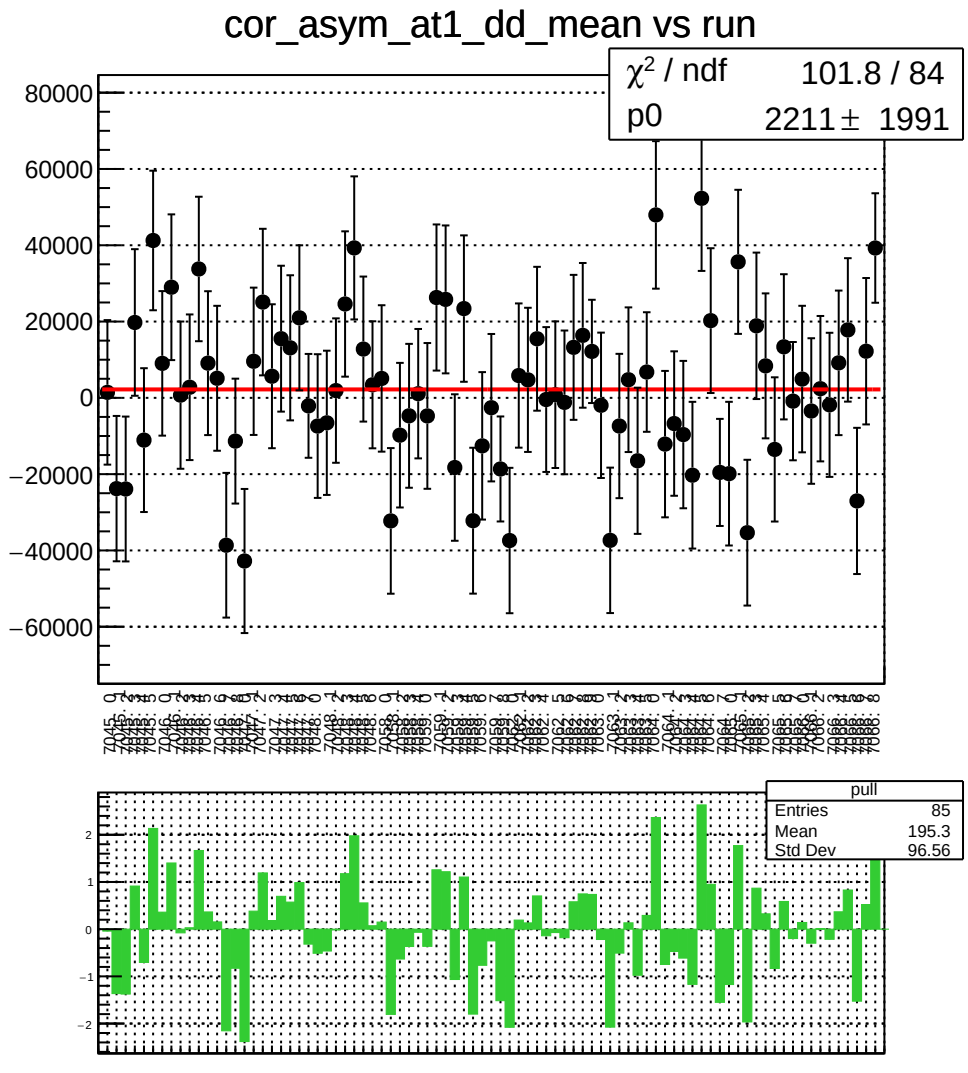

pull1D
Entries 85
Mean 0.001833
Std Dev 1.094

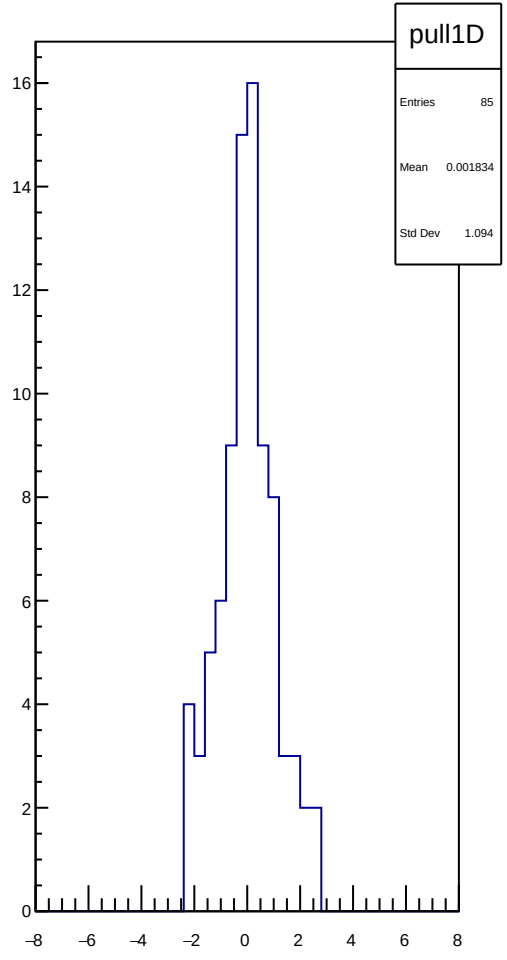

reg_asym_at1_dd_rms vs run
χ^2 / ndf 92.99 / 84
p0 1807 ± 1.408
1860
1840
1820
1800
1780
1760

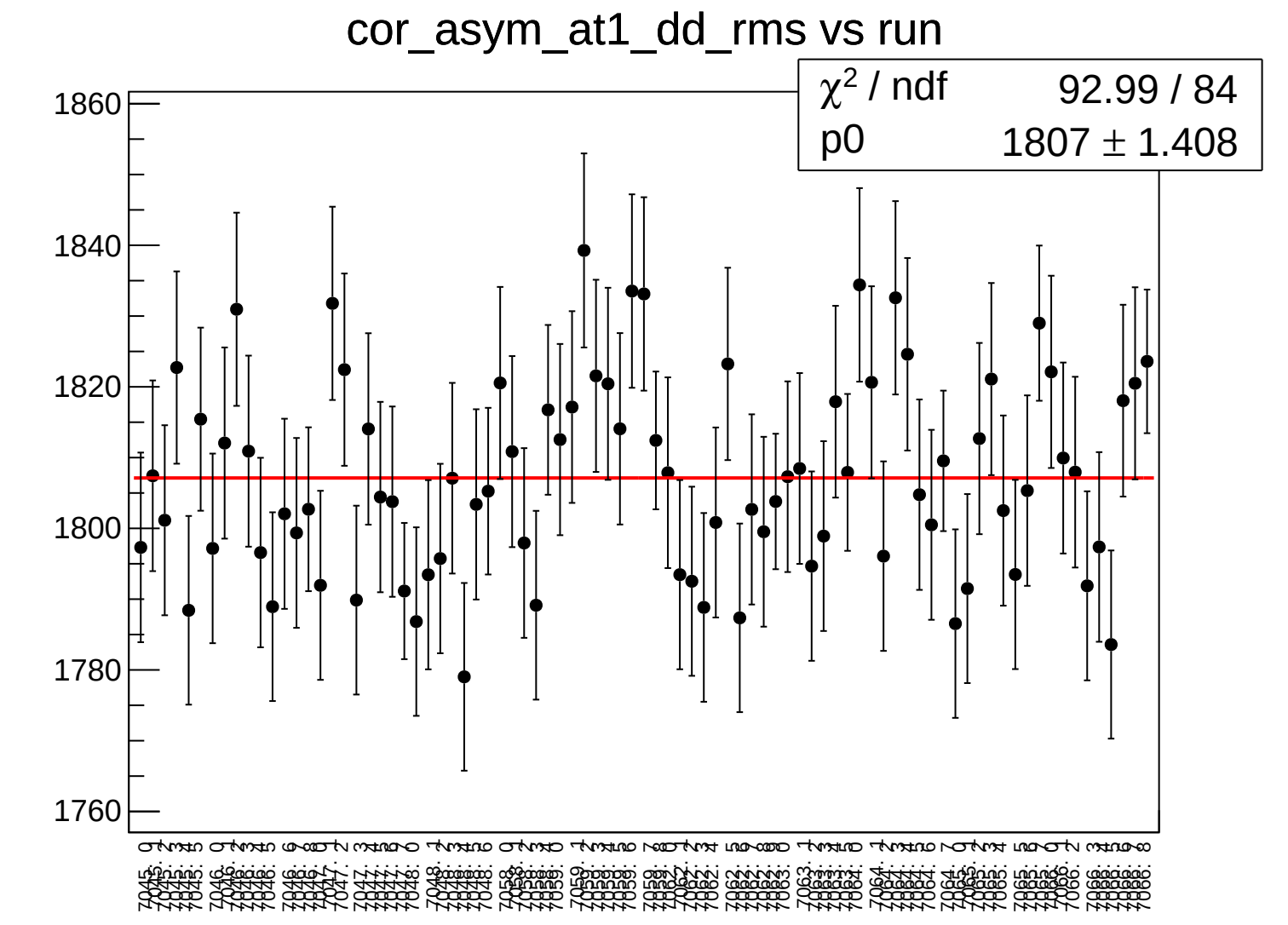

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 53.75 / 84
p0 508.6 ± 434.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −87.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

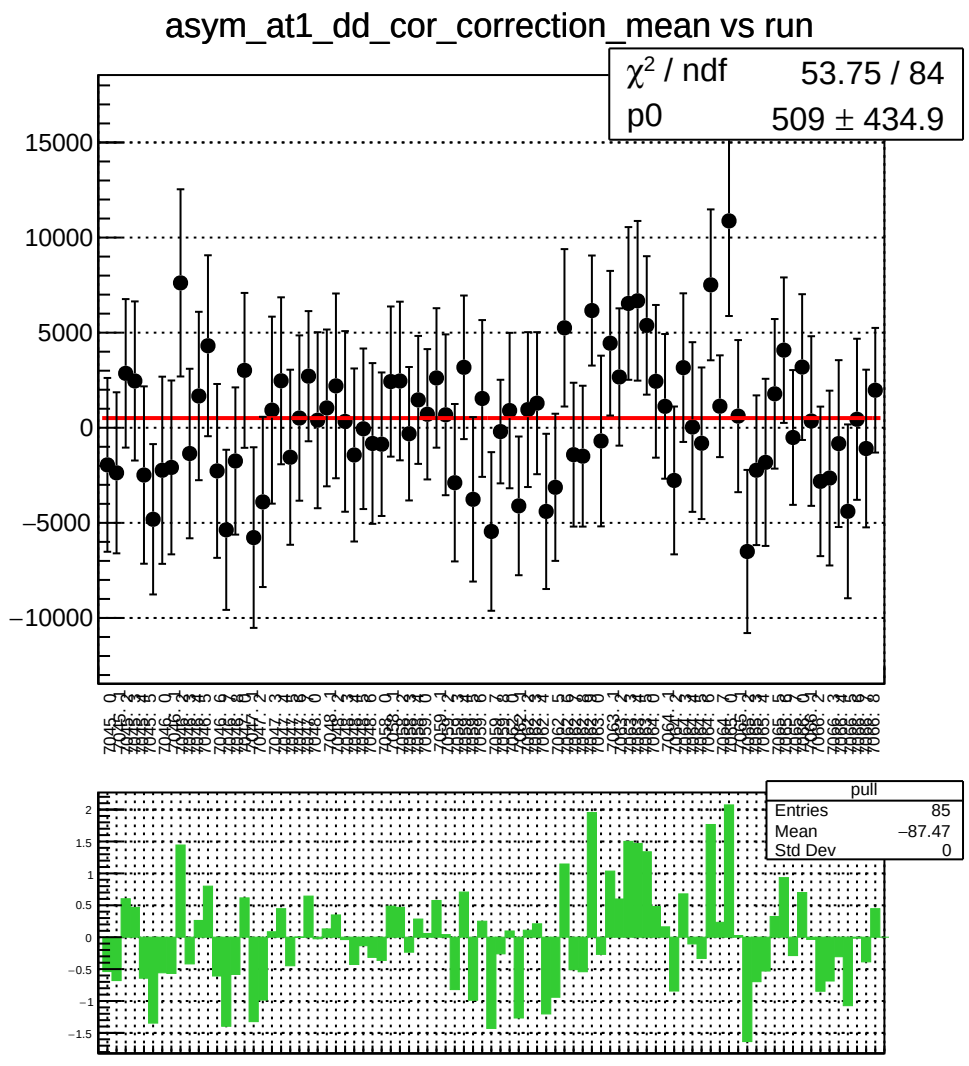

pull1D
Entries 85
Mean −0.01916
Std Dev 0.795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

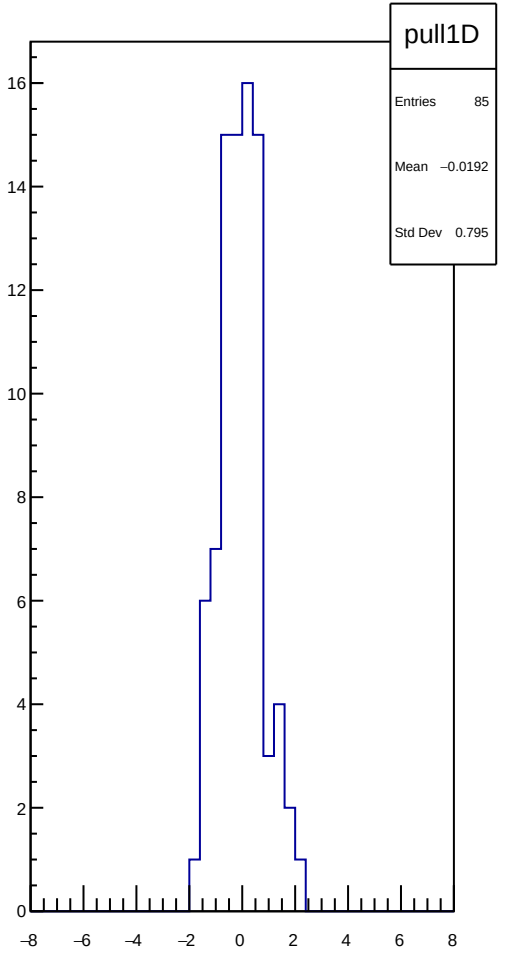

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.277e+04 / 84
p0 393.2 ± 0.3075
480
460
440
420
400
380
360
340
320

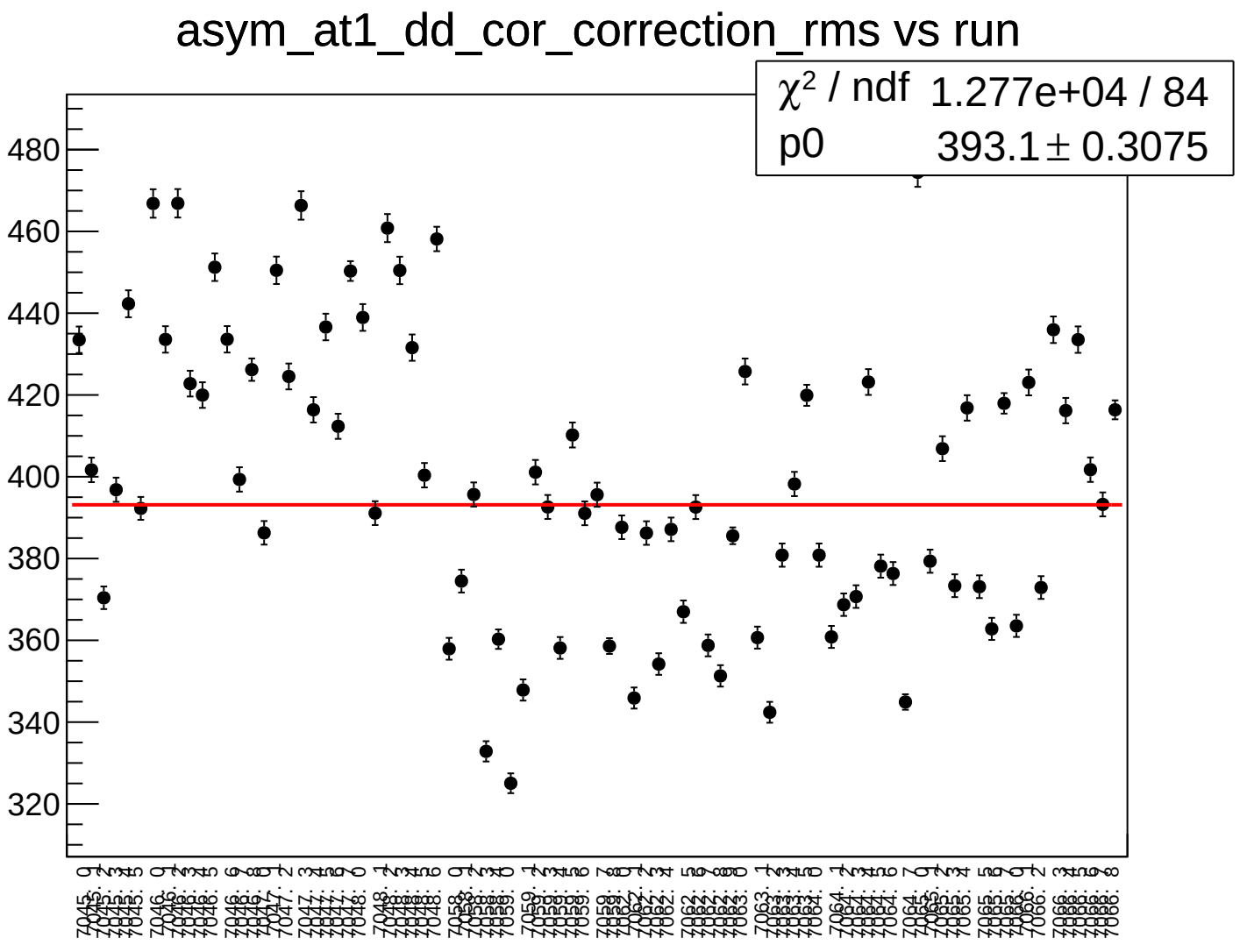

cor_asym_at1_dd_mean vs run
χ² / ndf 101.8 / 84
p0 2211 ± 1991
pull
Entries 85
Mean 195.3
Std Dev 96.56

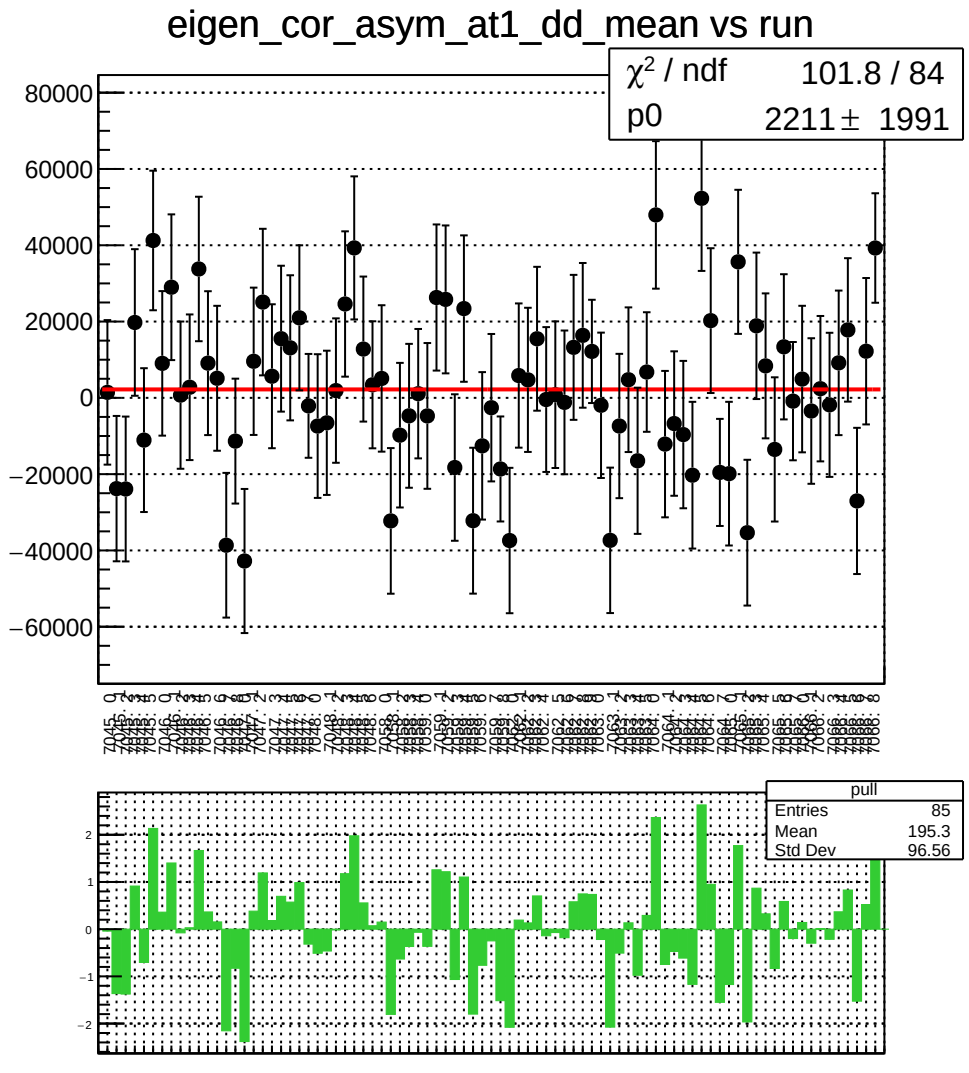

pull1D
Entries 85
Mean 0.001834
Std Dev 1.094

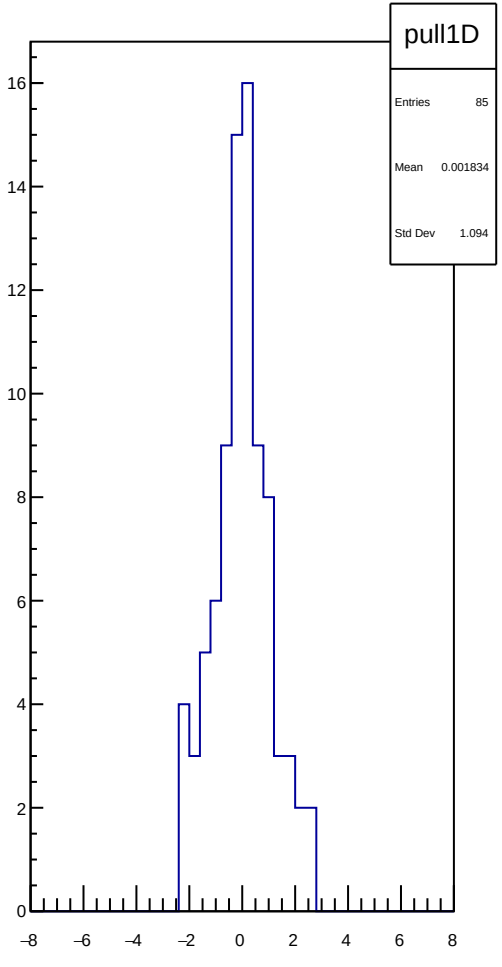

cor_asym_at1_dd_rms vs run
χ² / ndf 92.99 / 84
p0 1807 ± 1.408
1860
1840
1820
1800
1780
1760

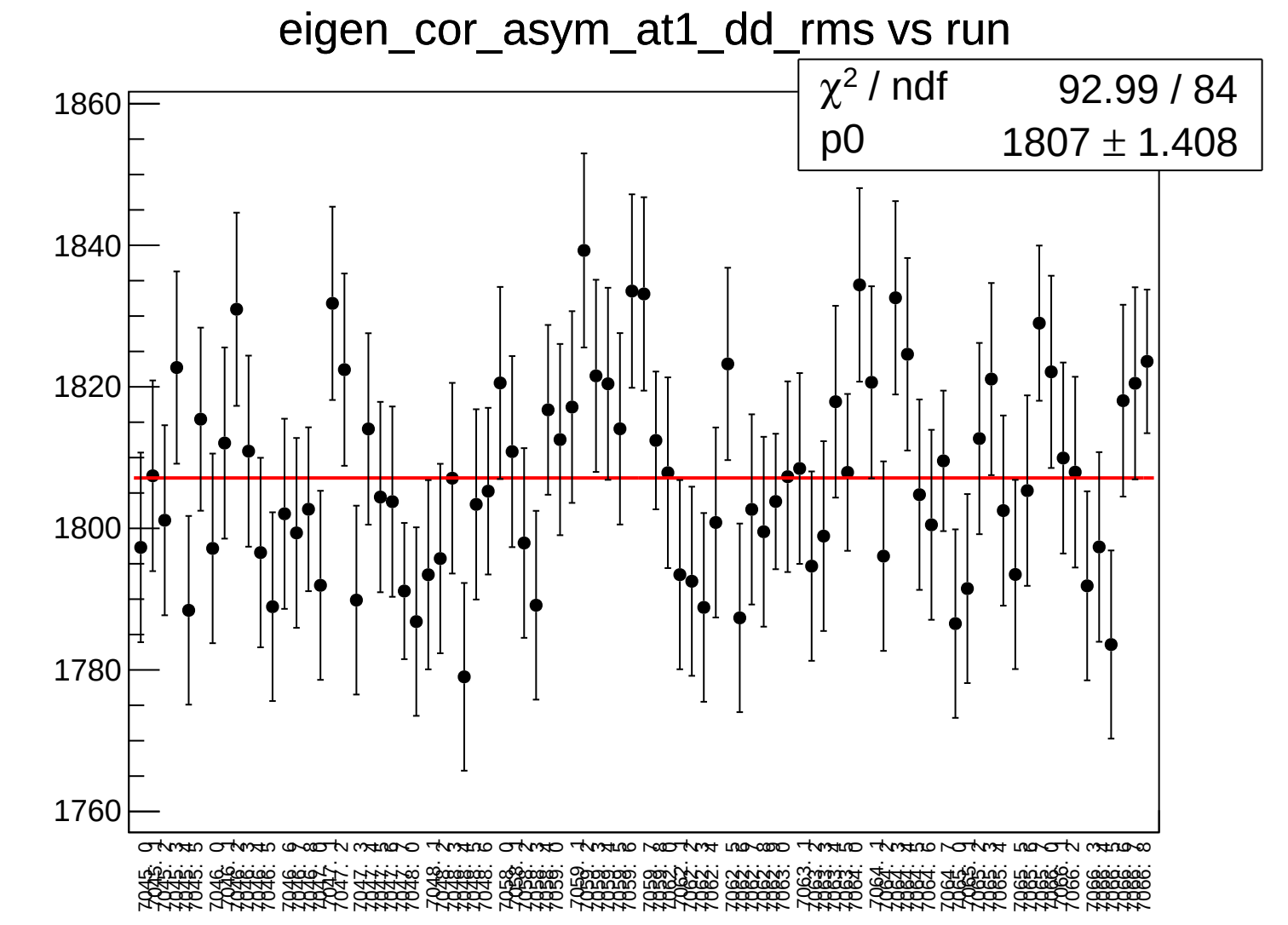

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 53.75 / 84
p0 509 ± 434.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −87.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

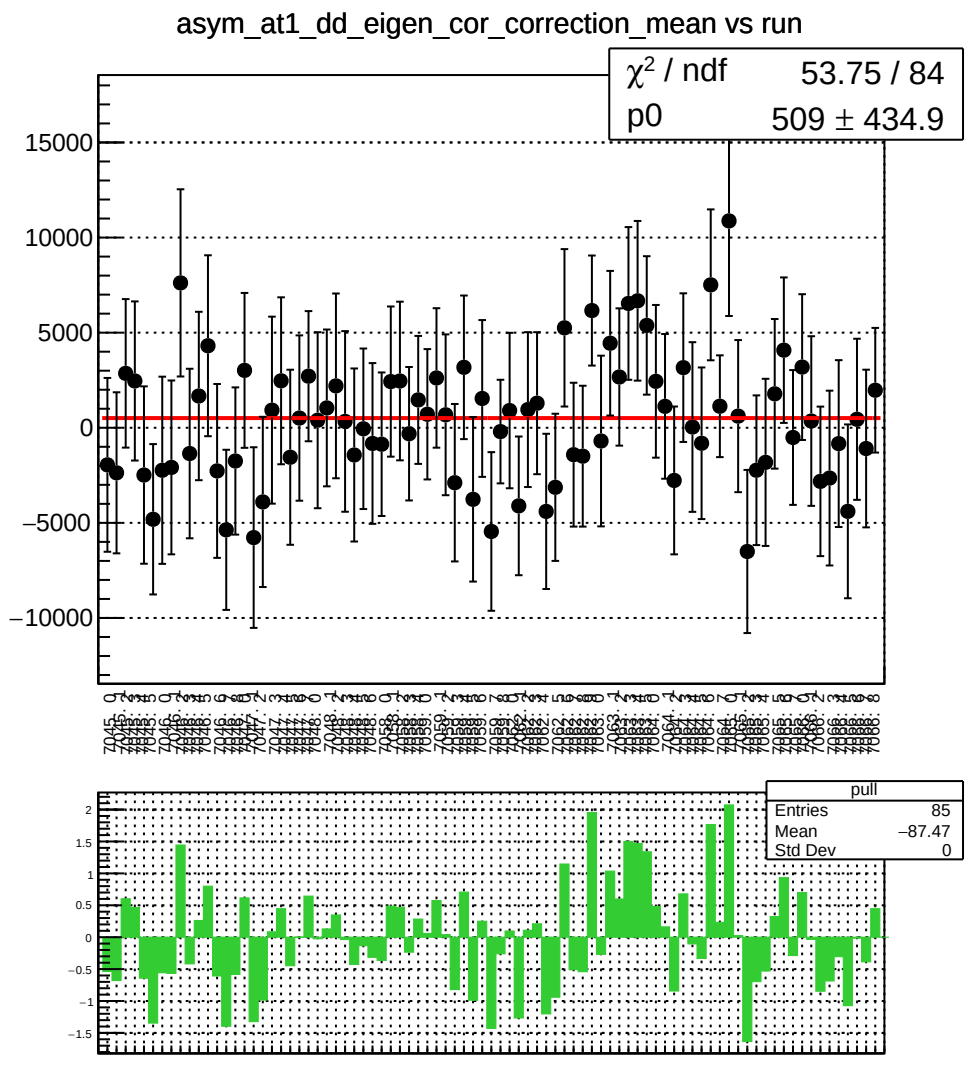

pull1D
Entries 85
Mean −0.0192
Std Dev 0.795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

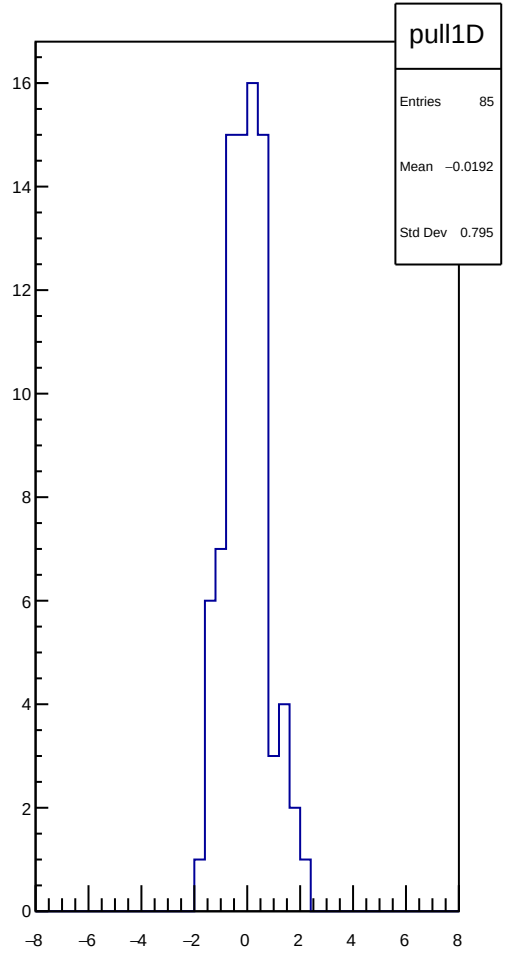

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.277e+04 / 84
p0 393.1 ± 0.3075
480
460
440
420
400
380
360
340
320

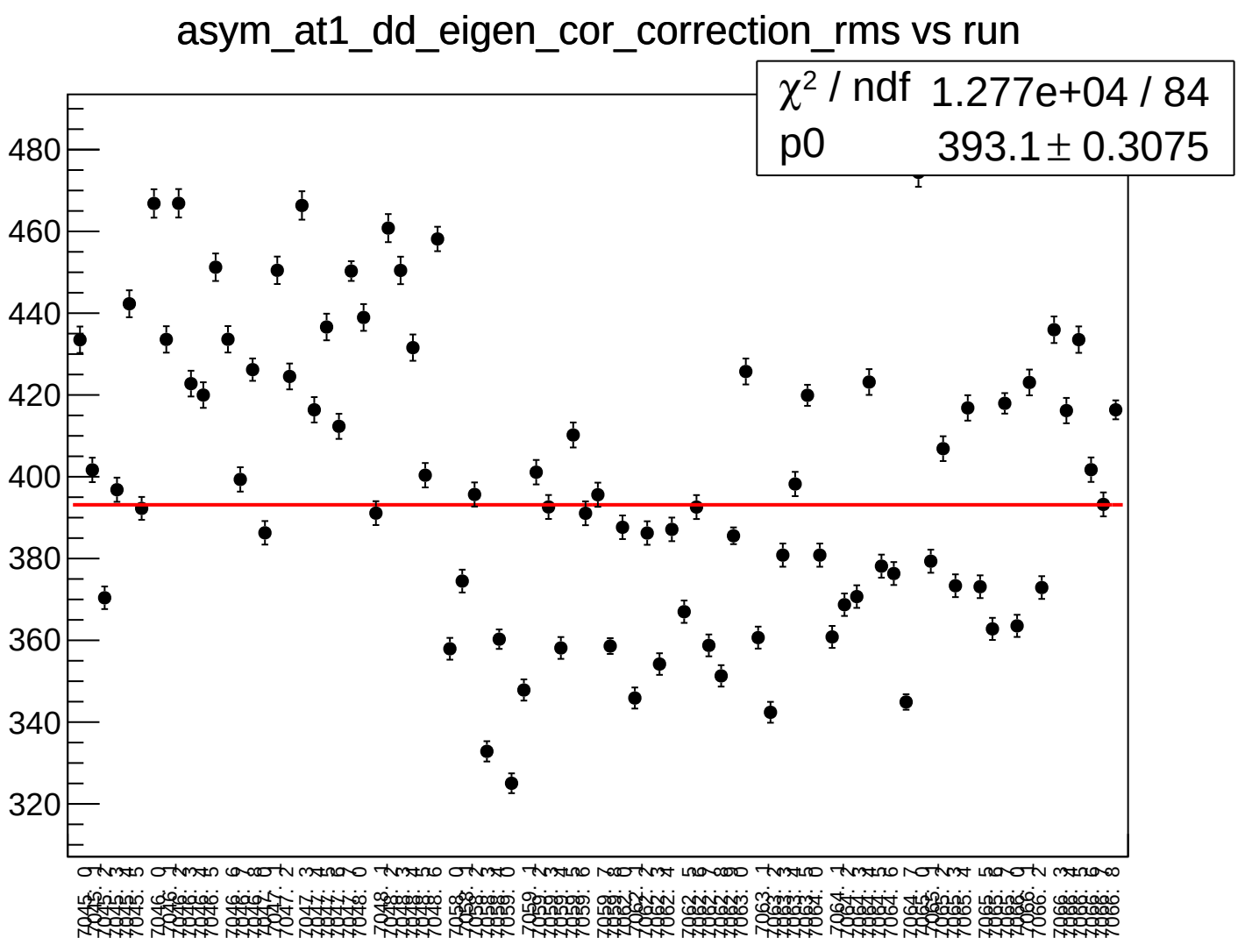

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 101.8 / 84
p0 2211 ± 1991
pull
Entries 85
Mean 195.3
Std Dev 96.56

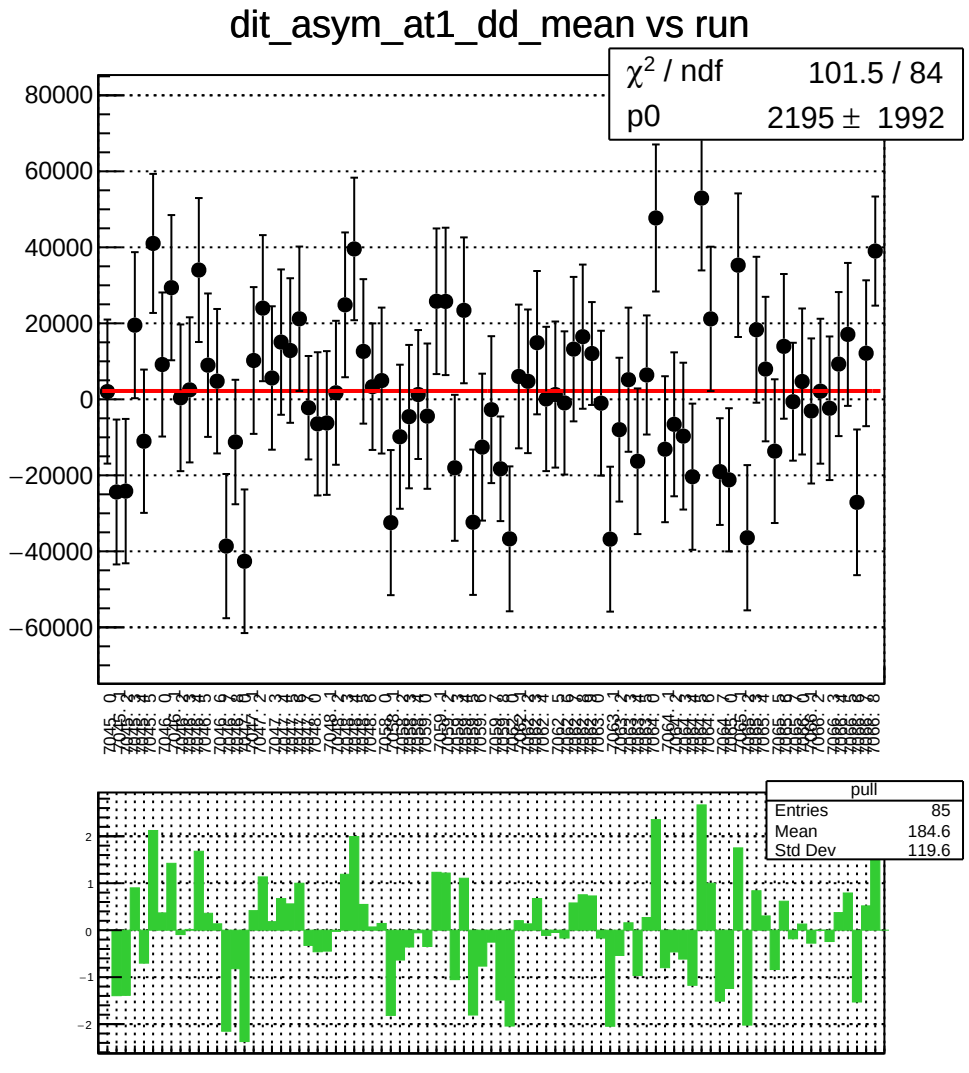

pull1D
Entries 85
Mean 0.001834
Std Dev 1.094

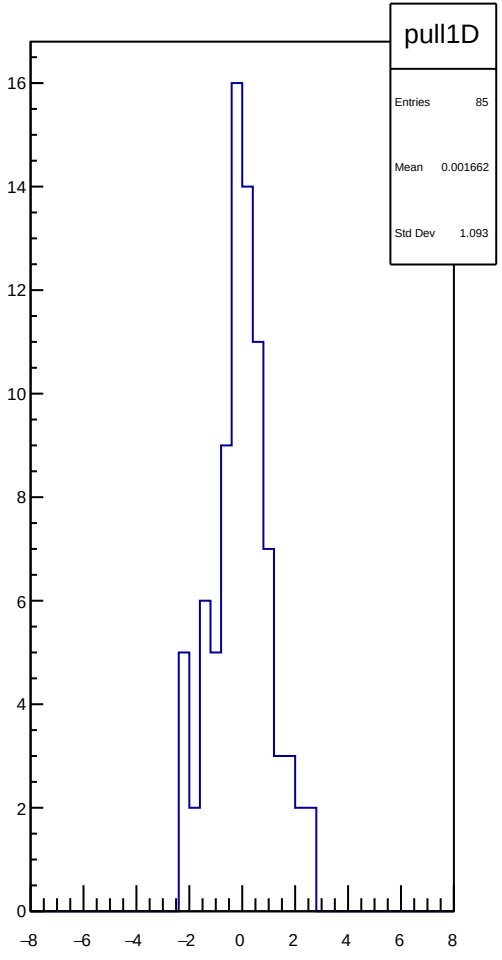

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 92.99 / 84
p0 1807 ± 1.408
1860
1840
1820
1800
1780
1760

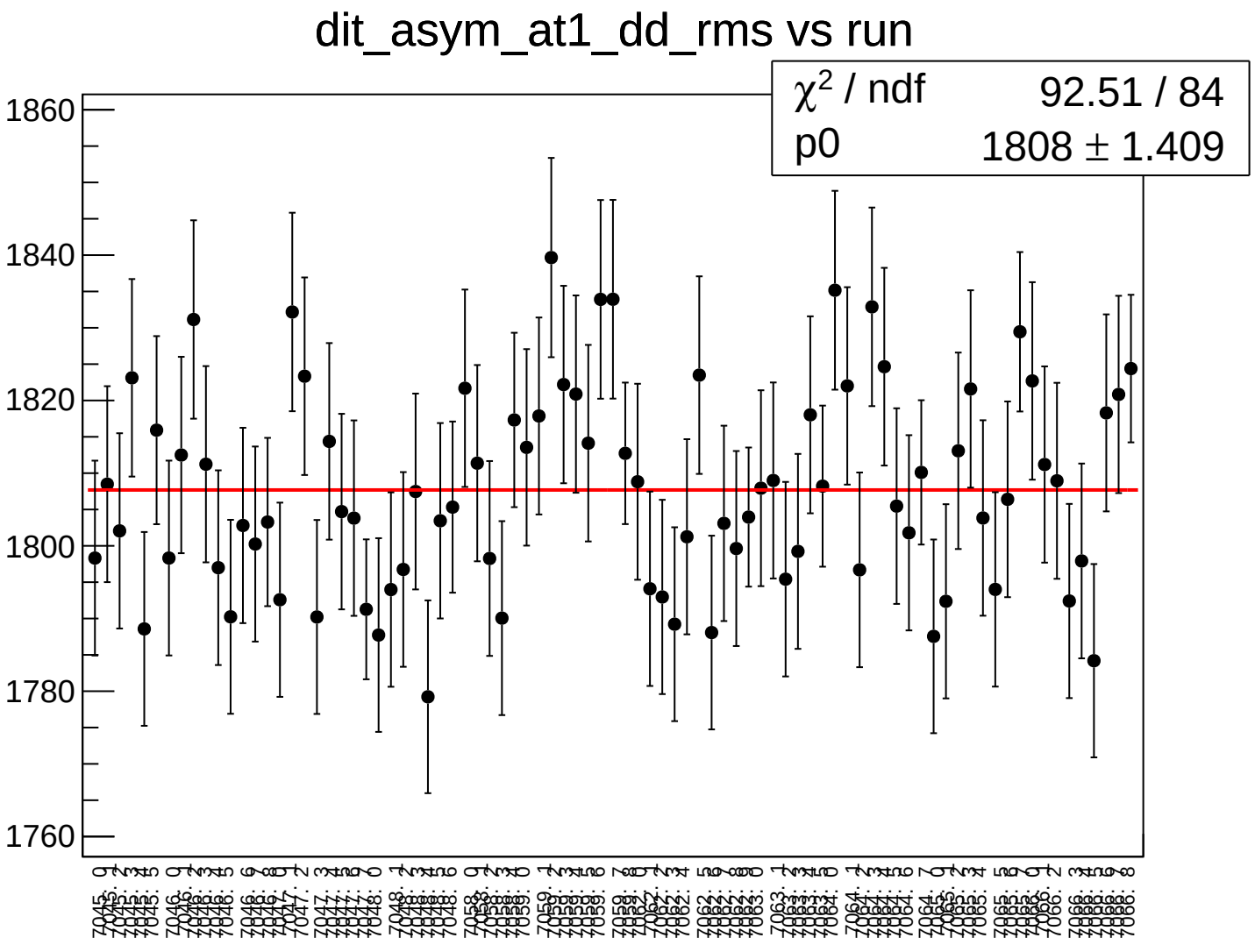

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 53.75 / 84
p0 509 ± 434.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −87.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

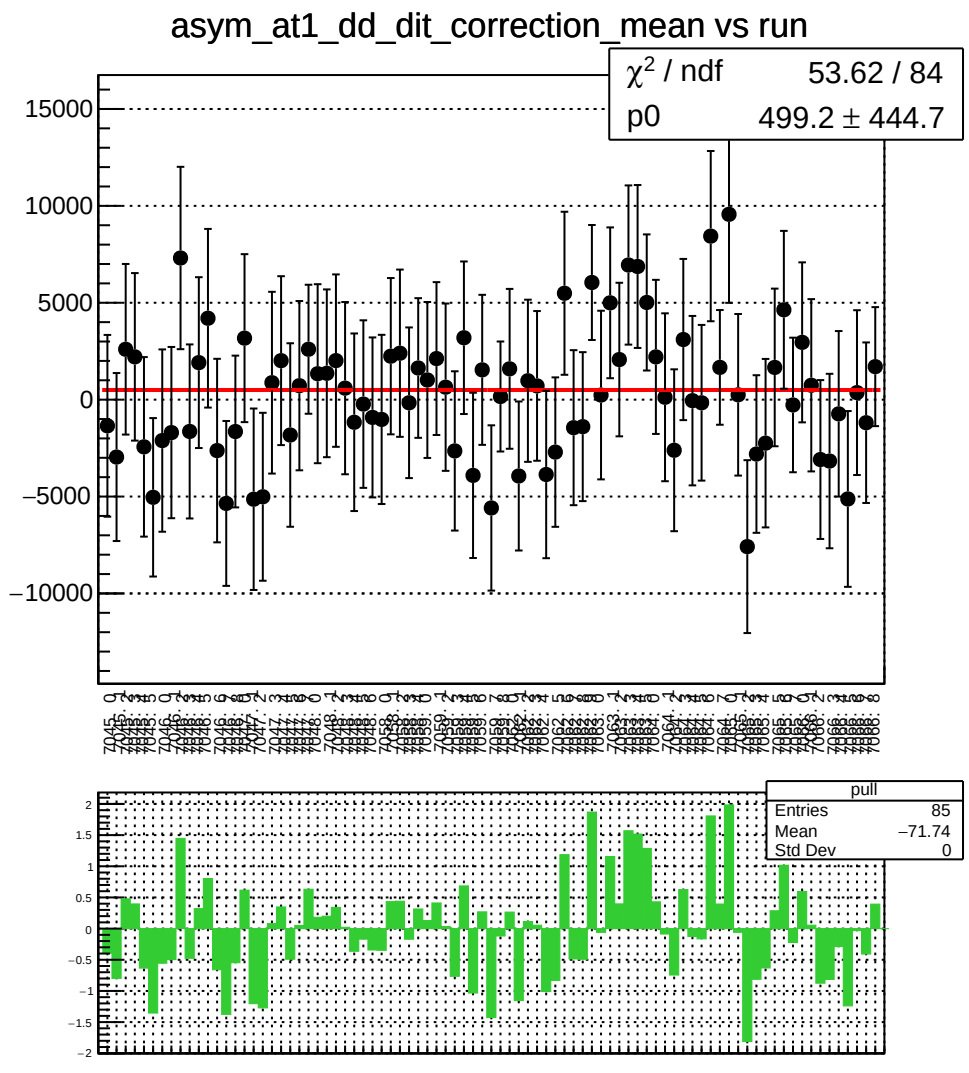

pull1D
Entries 85
Mean −0.0192
Std Dev 0.795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

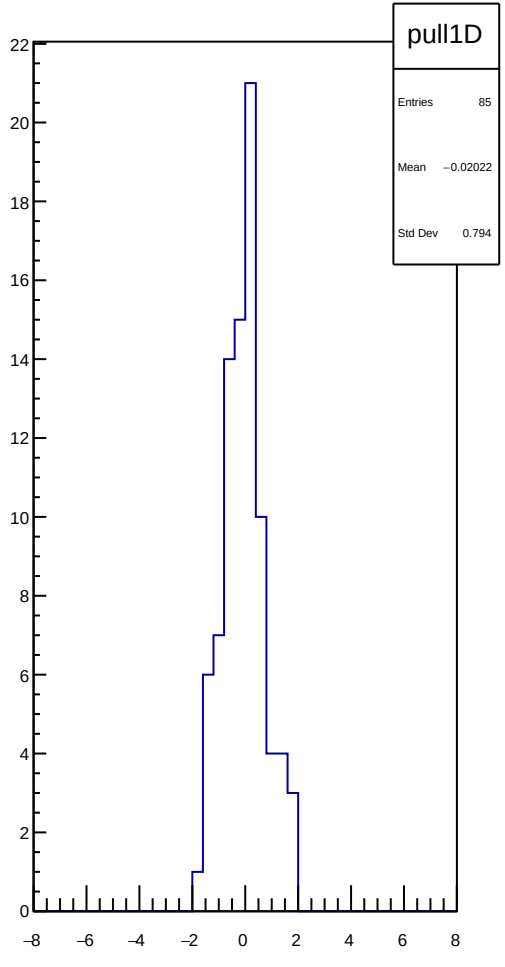

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.277e+04 / 84
p0 393.1 ± 0.3075
480
460
440
420
400
380
360
340
320

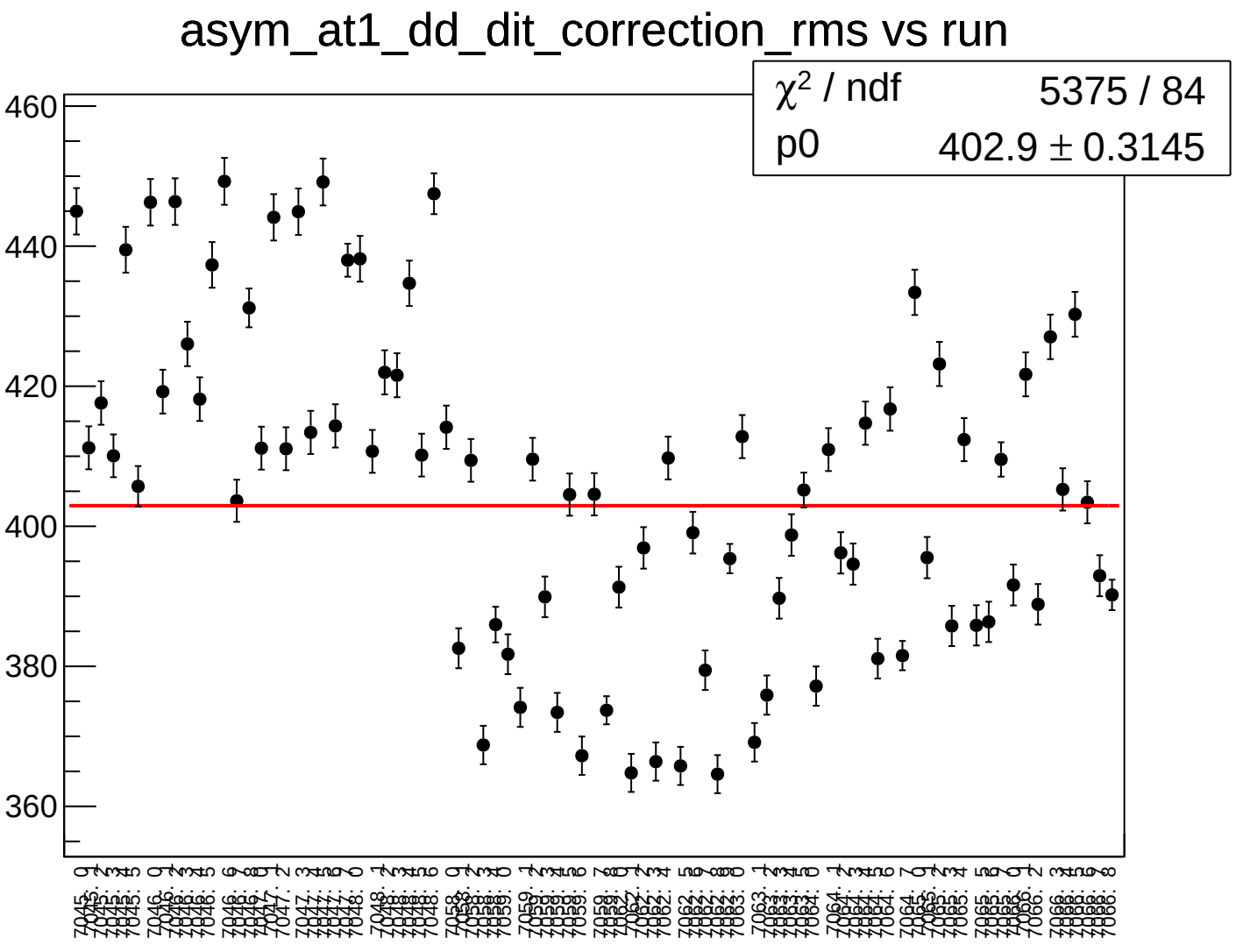

dit_asym_at1_dd_mean vs run
χ² / ndf 101.5 / 84
p0 2195 ± 1992
pull
Entries 85
Mean 184.6
Std Dev 119.6

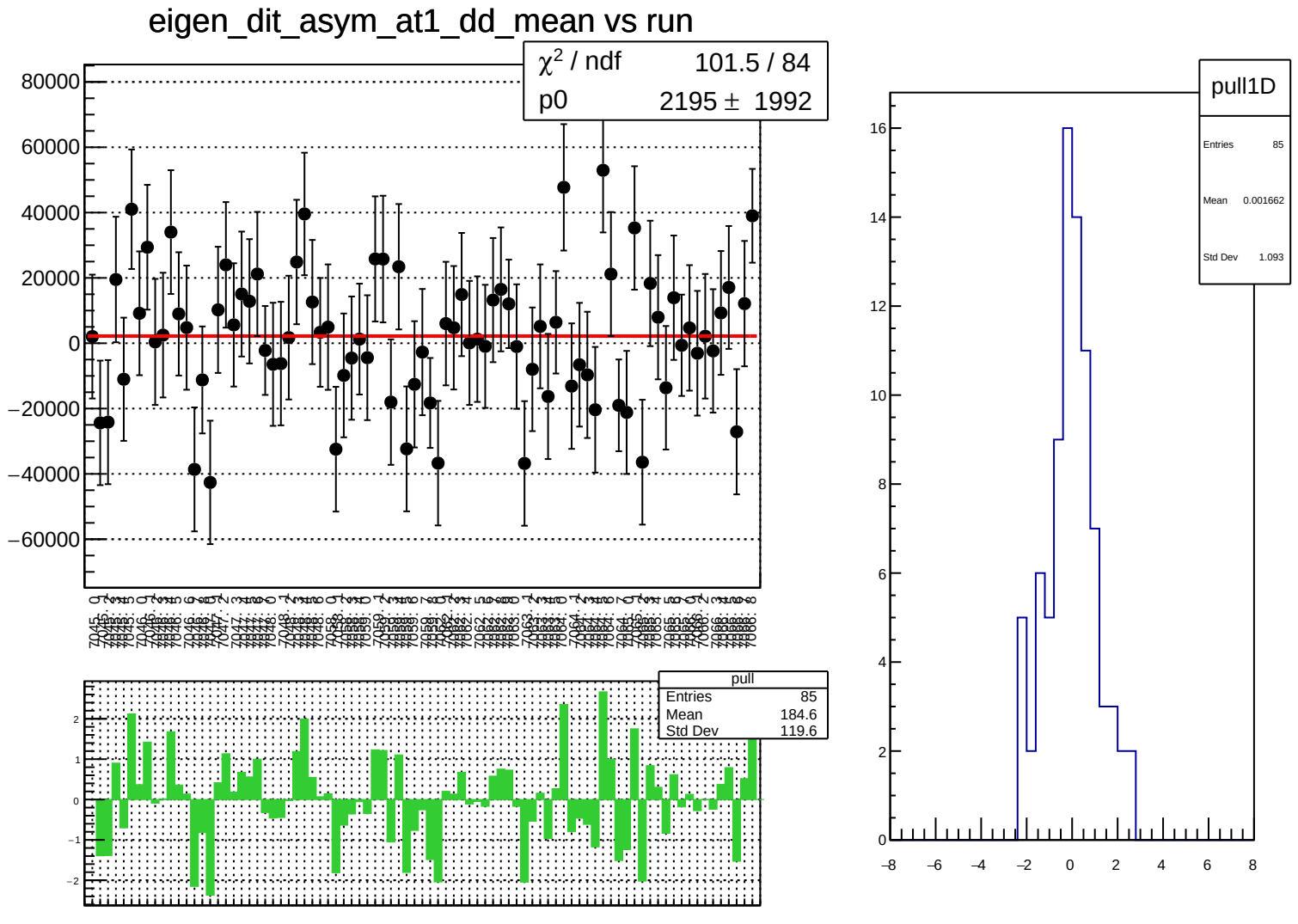

pull1D
Entries 85
Mean 0.001662
Std Dev 1.093

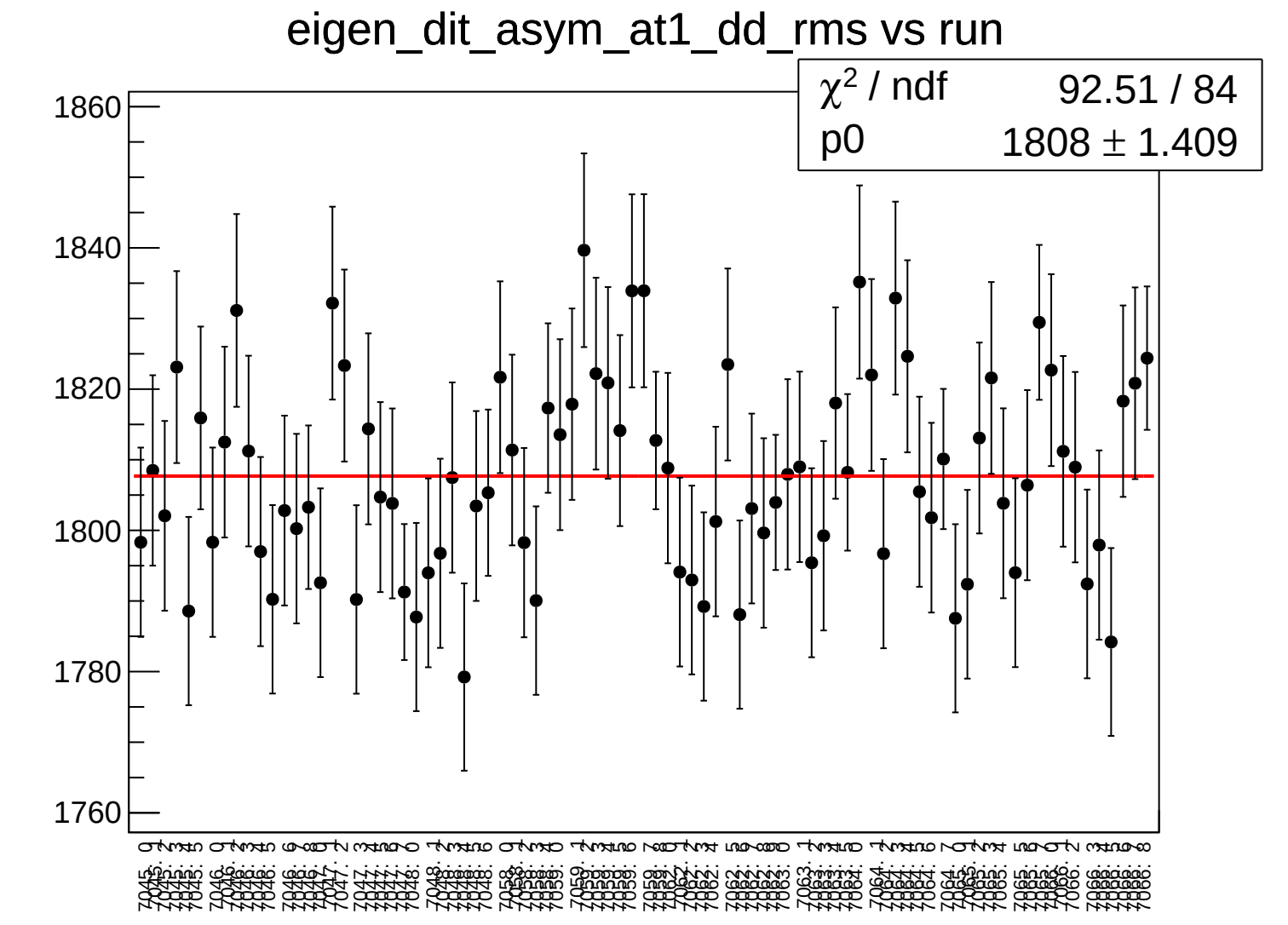

dit_asym_at1_dd_rms vs run
χ² / ndf 92.51 / 84
p0 1808 ± 1.409
1860
1840
1820
1800
1780
1760

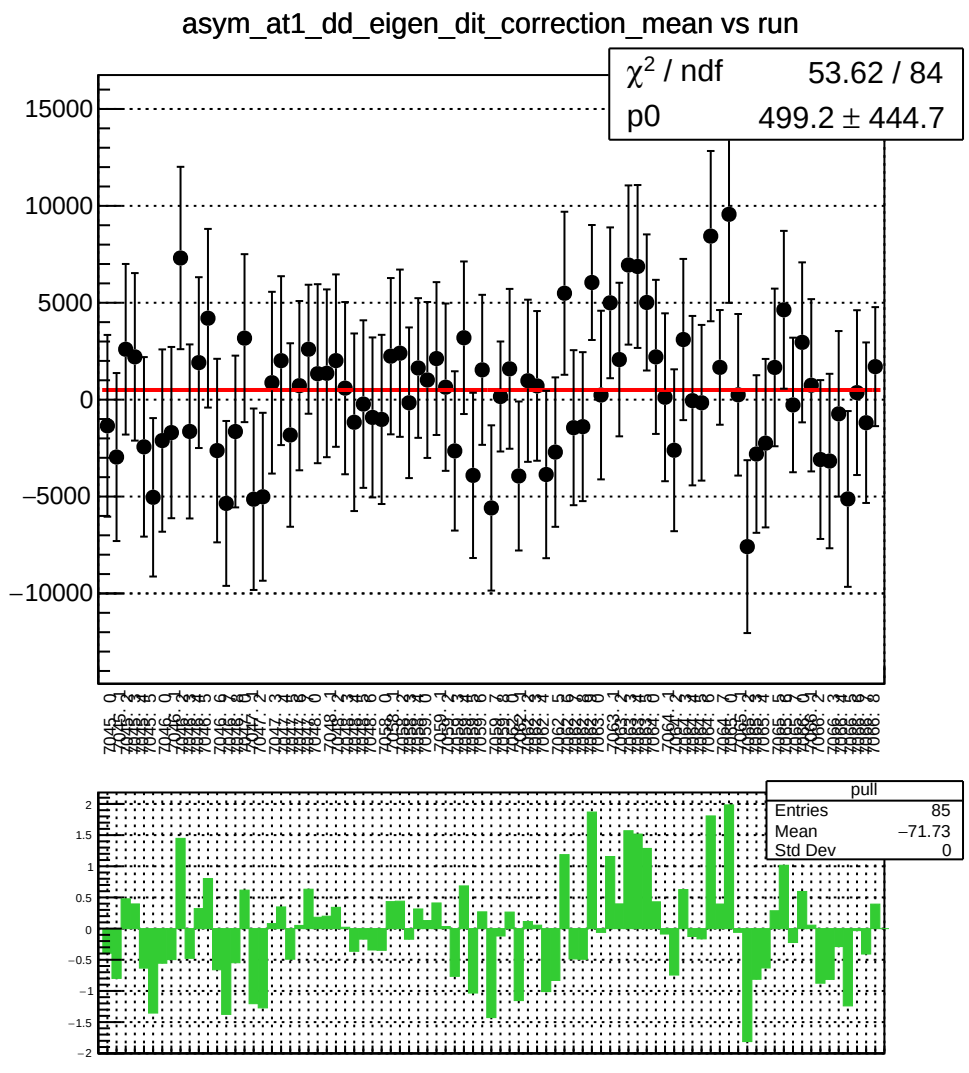

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 53.62 / 84
p0 499.2 ± 444.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −71.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

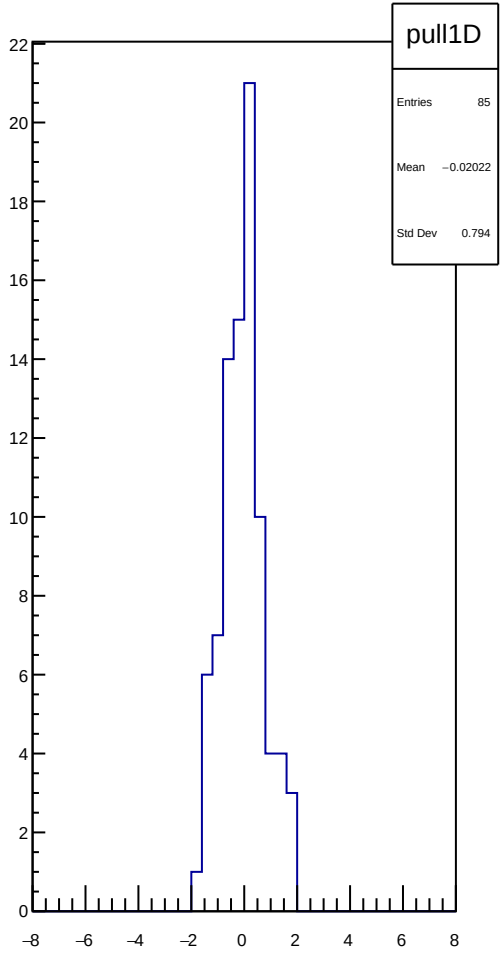

pull1D
Entries 85
Mean −0.02022
Std Dev 0.794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

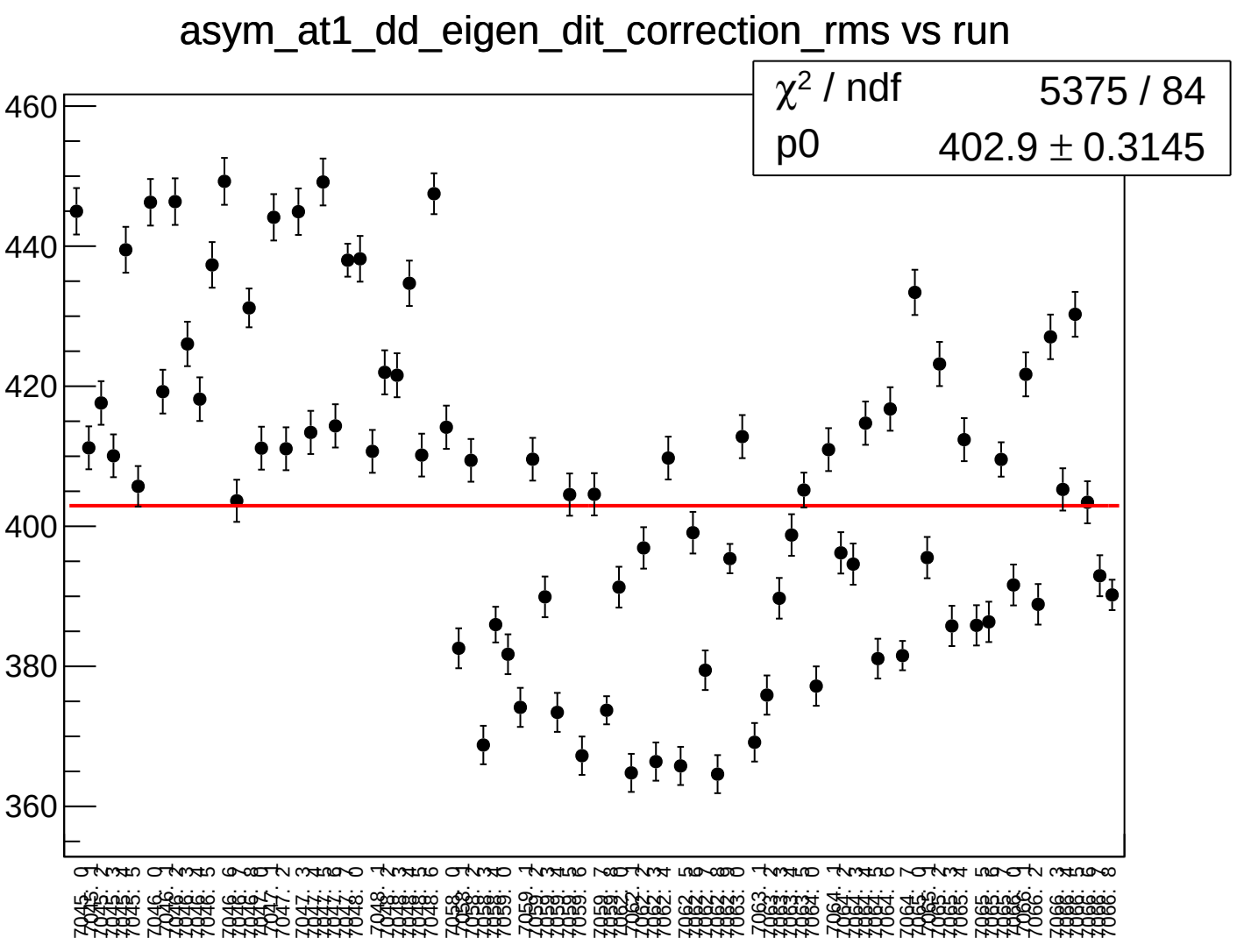

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 5375 / 84
p0 402.9 ± 0.3145
460
440
420
400
380
360

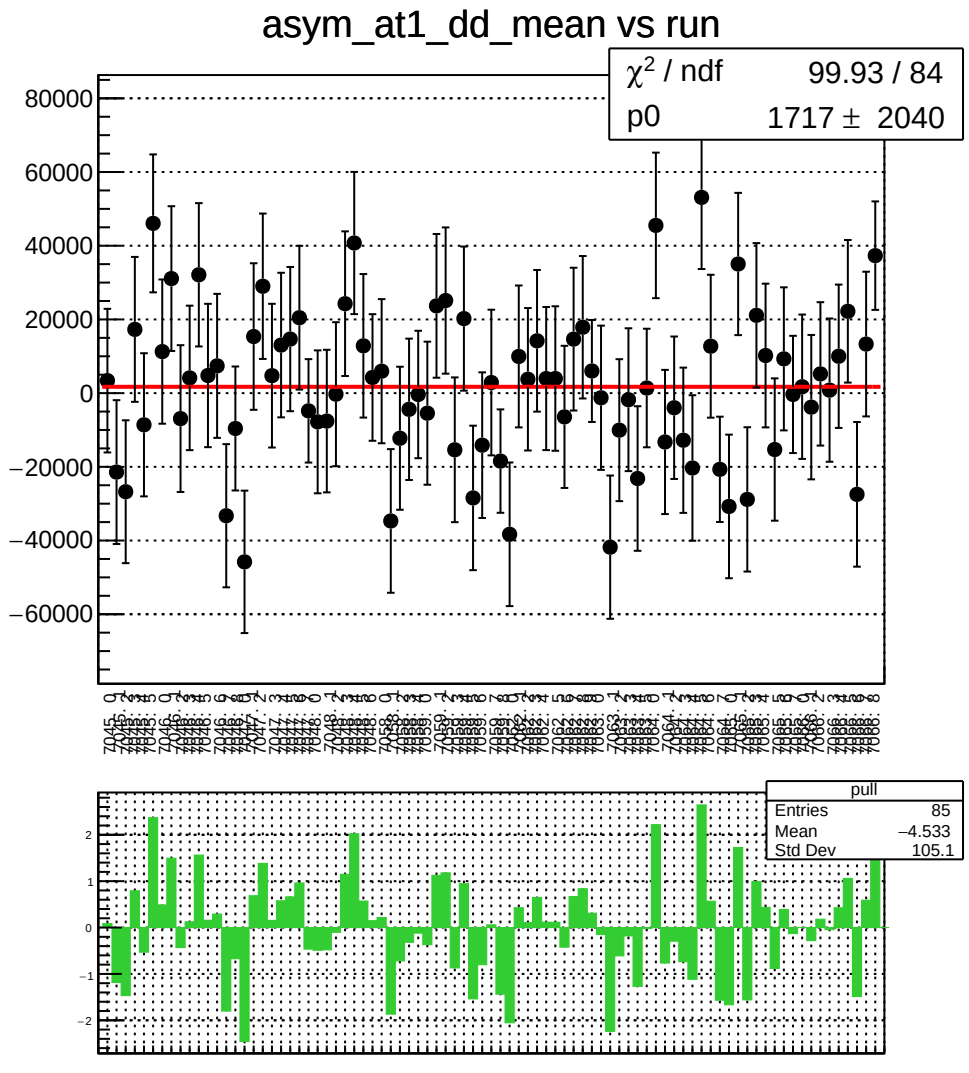

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 101.5 / 84
p0 2195 ± 1992
pull
Entries 85
Mean 184.6
Std Dev 119.6
pull1D
Entries 85
Mean 0.001662
Std Dev 1.093

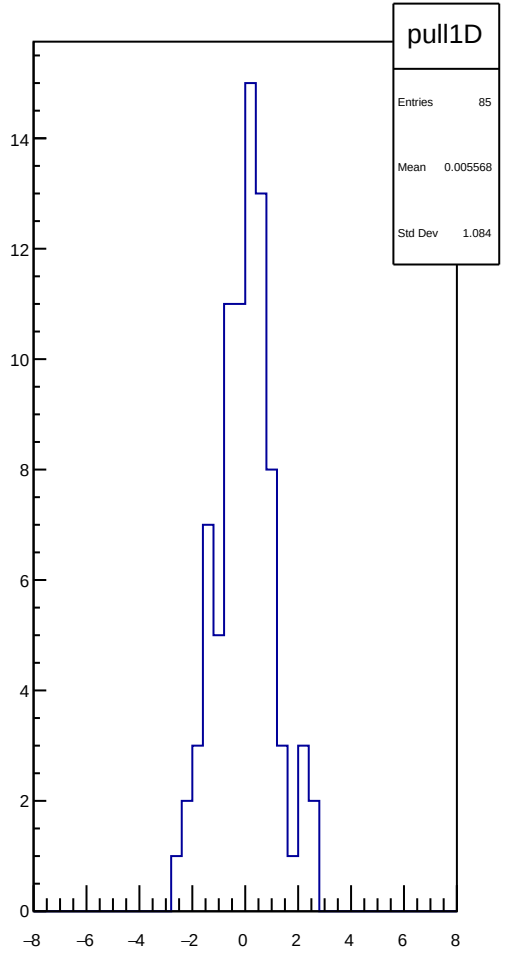

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 92.51 / 84
p0 1808 ± 1.409
1860
1840
1820
1800
1780
1760

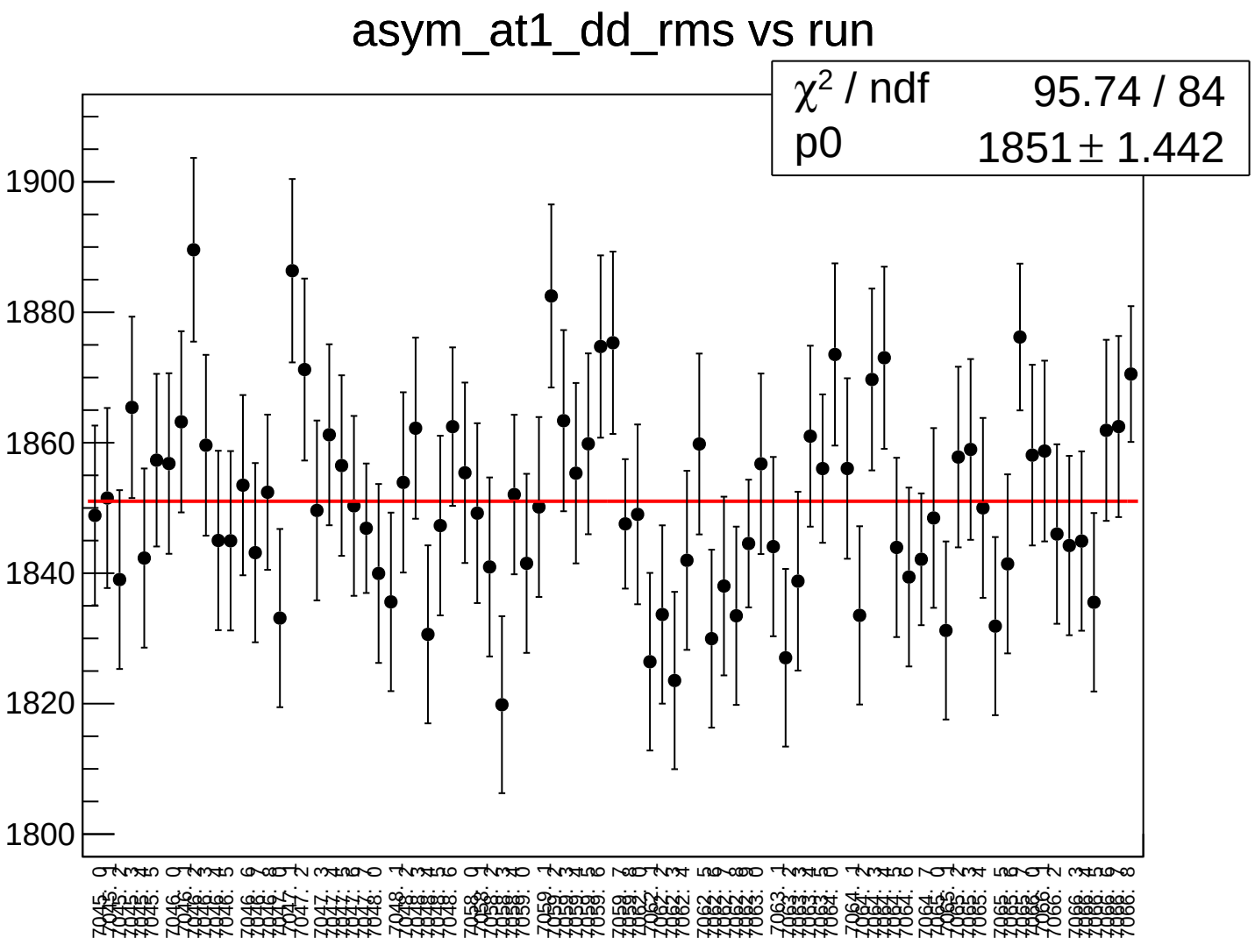

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 53.62 / 84
p0 499.2 ± 444.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −71.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

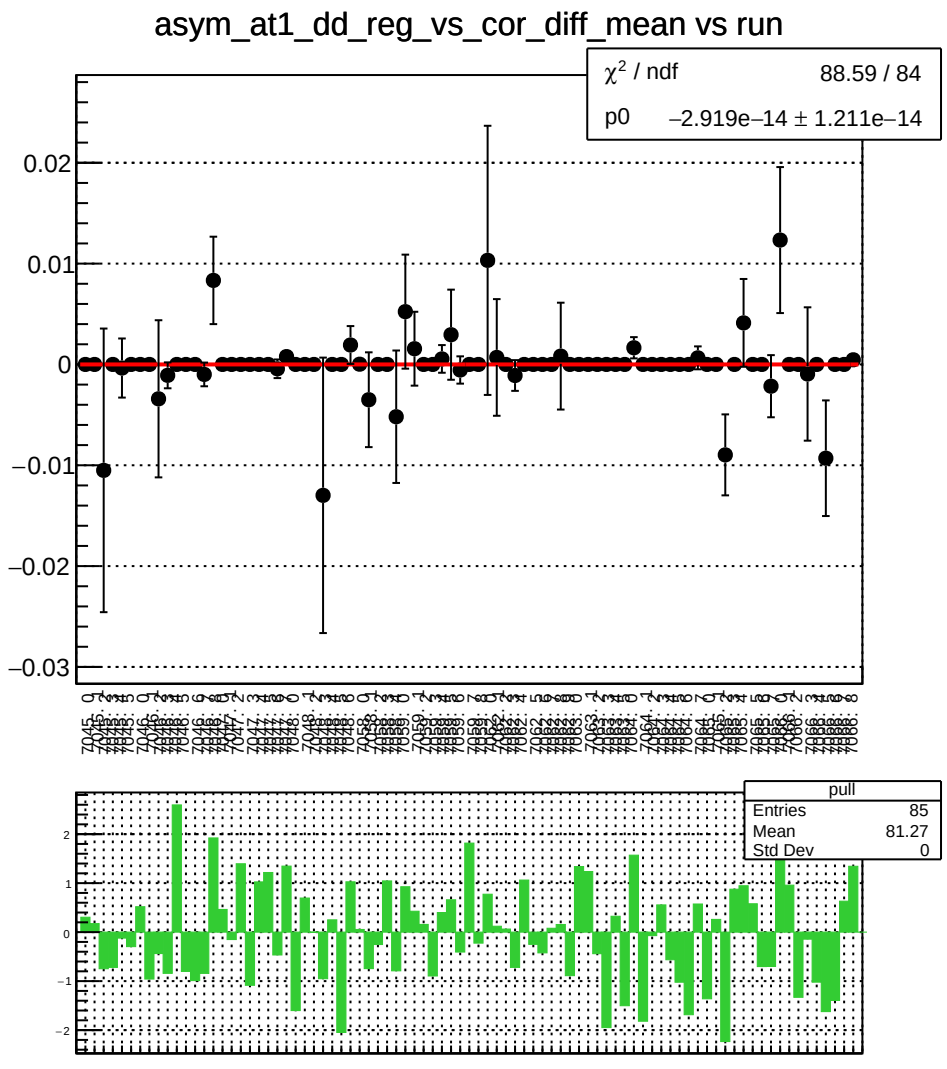

pull1D
Entries 85
Mean −0.02022
Std Dev 0.794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

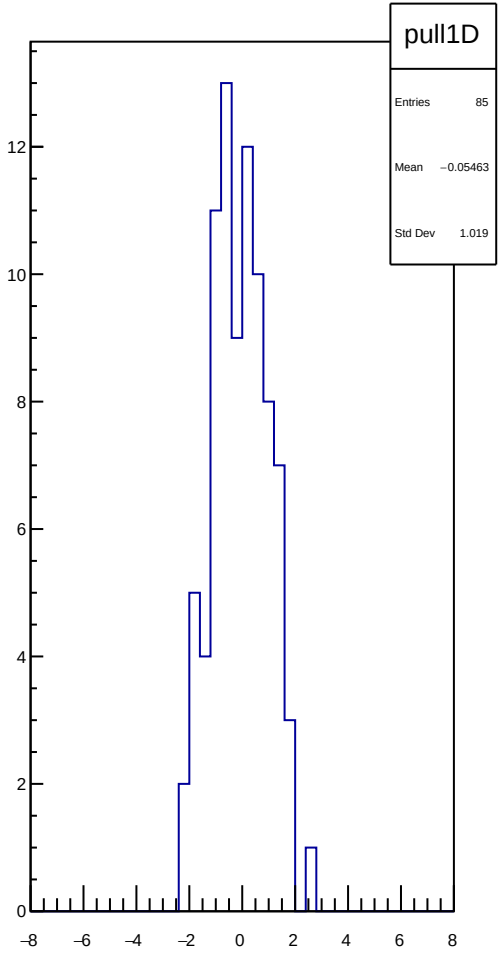

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5375 / 84
p0 402.9 ± 0.3145
460
440
420
400
380
360

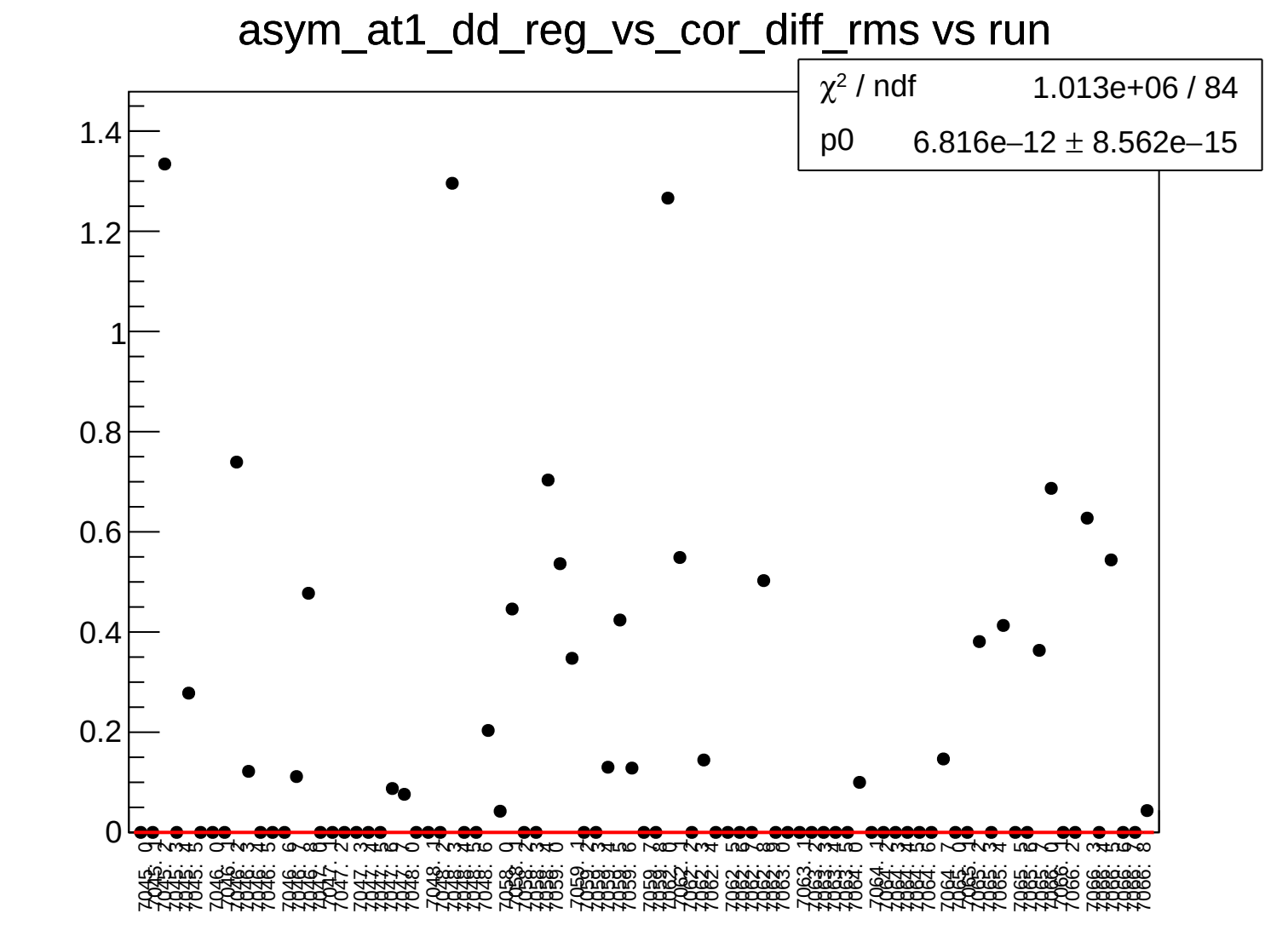

asym_at1_dd_mean vs run
χ² / ndf 99.93 / 84
p0 1717 ± 2040
pull
Entries 85
Mean −4.533
Std Dev 105.1

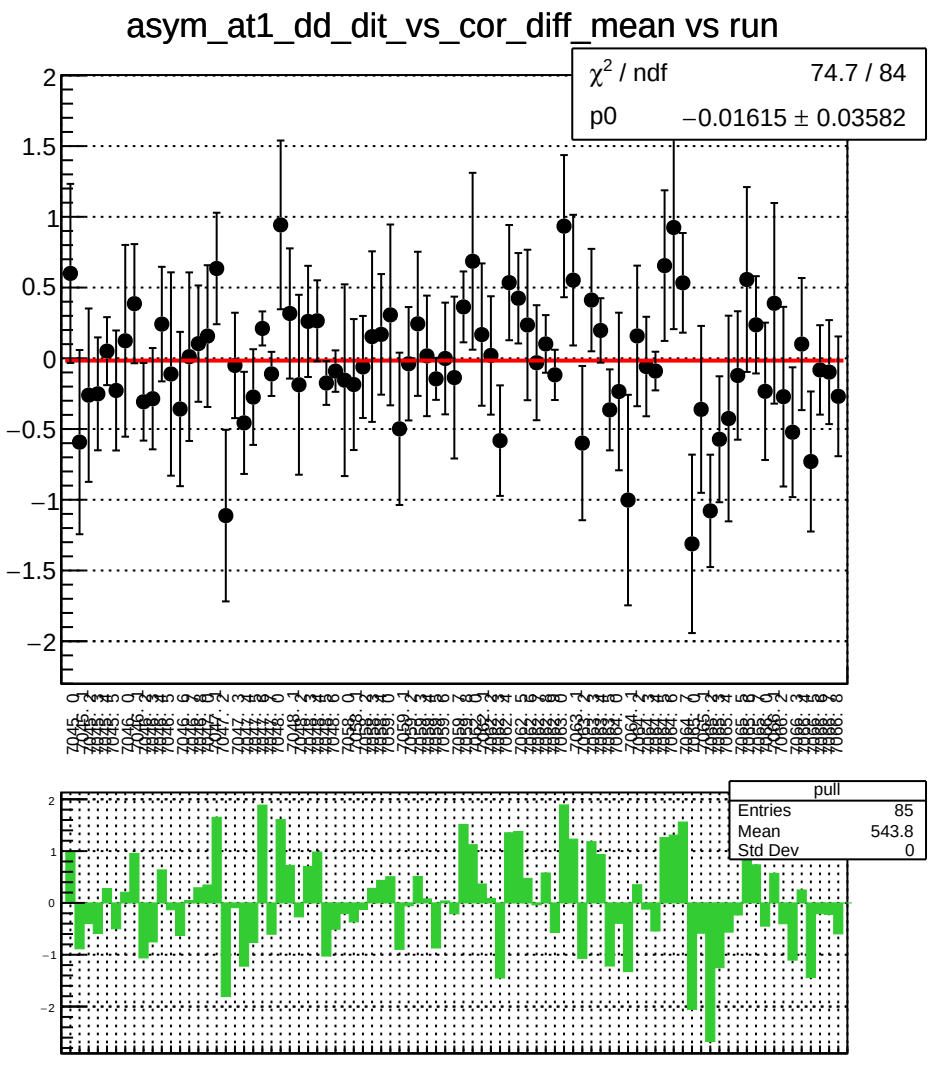

pull1D
Entries 85
Mean 0.005568
Std Dev 1.084

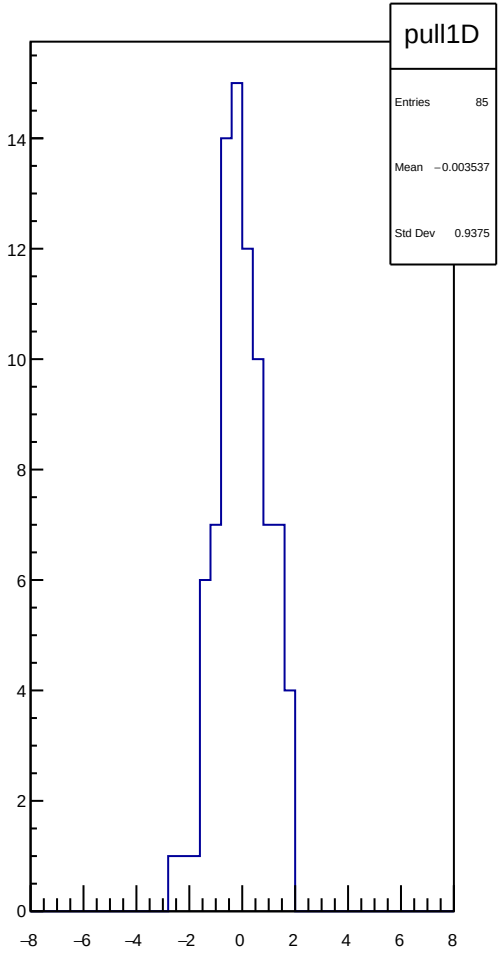

asym_at1_dd_rms vs run
χ² / ndf 95.74 / 84
p0 1851 ± 1.442
1900
1880
1860
1840
1820
1800

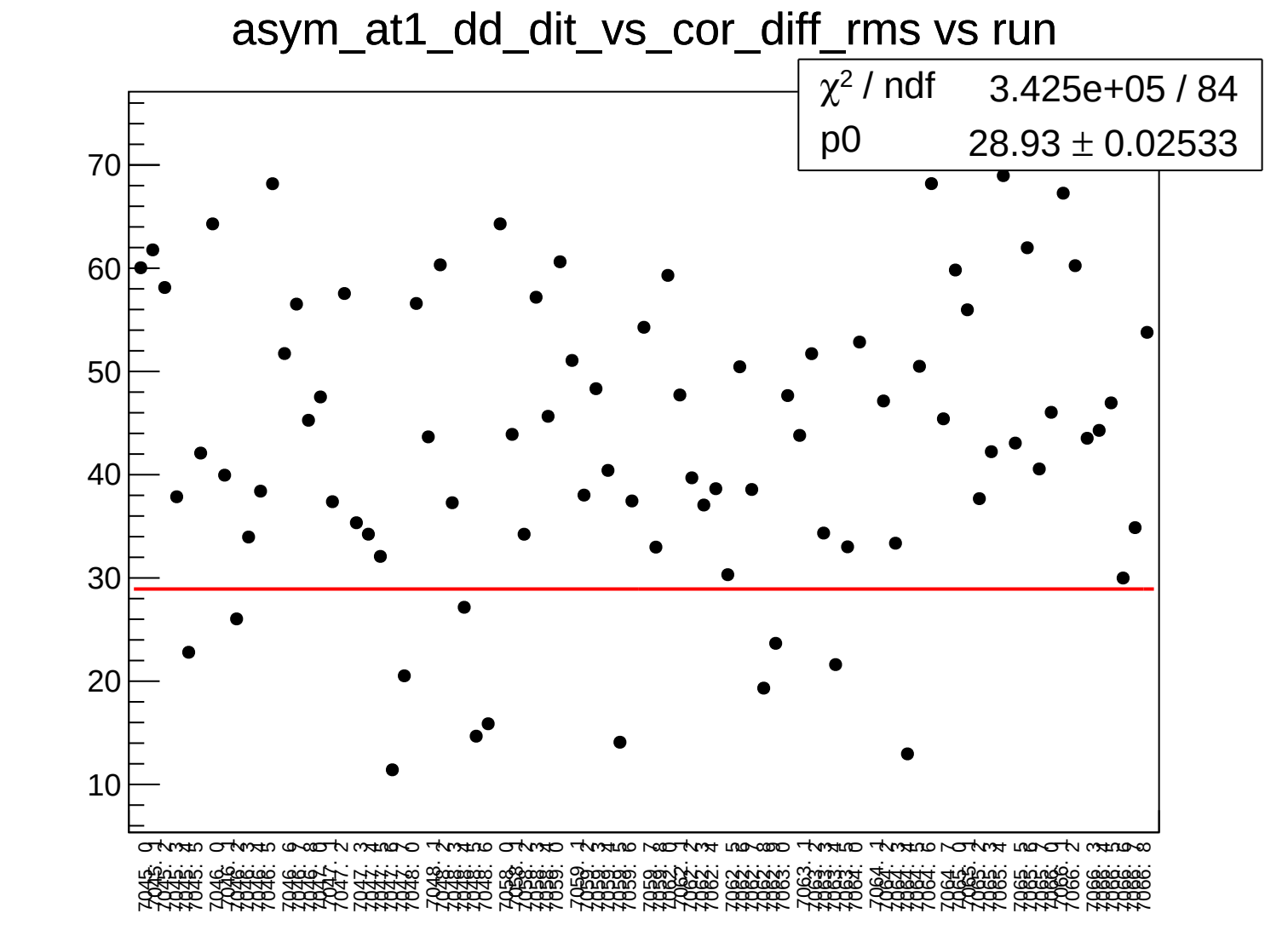

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.59 / 84
p0 −2.919e−14 ± 1.211e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 81.27
Std Dev 0
2
1
0
−1
−2

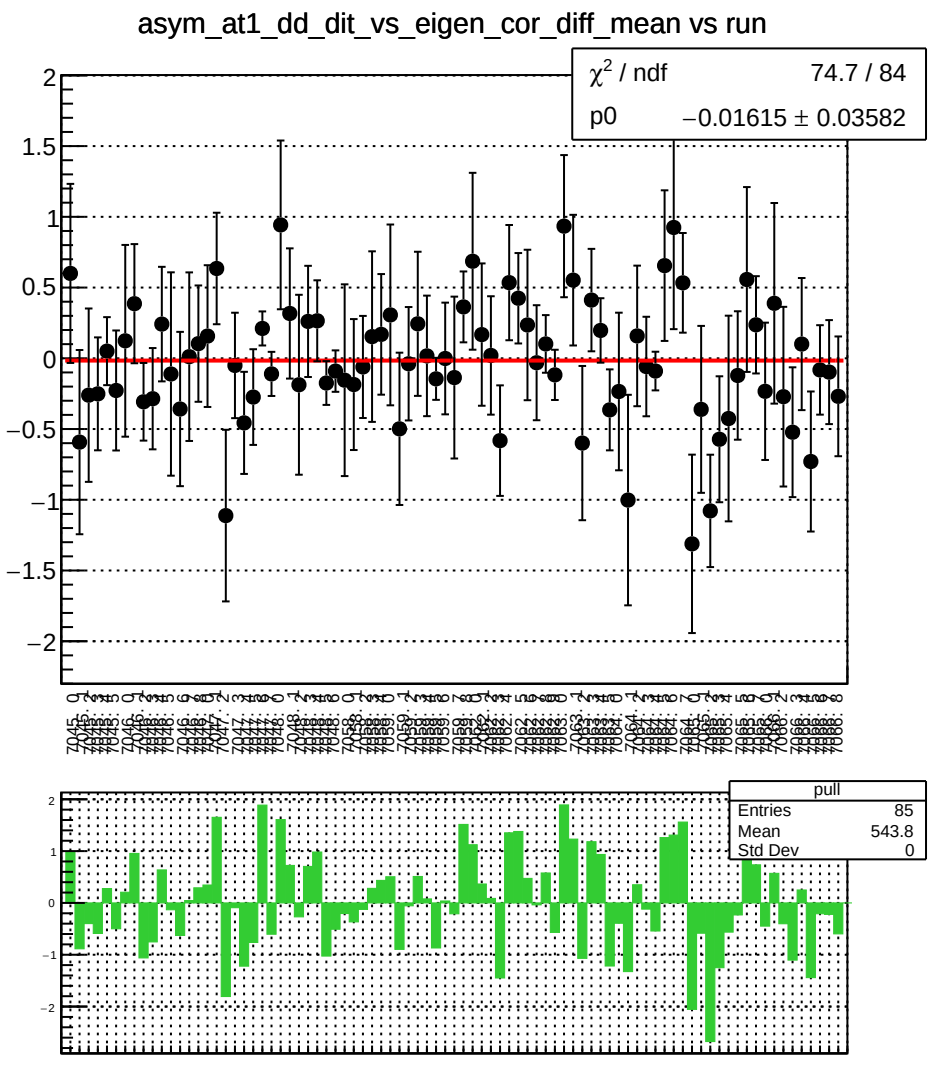

pull1D
Entries 85
Mean −0.05463
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

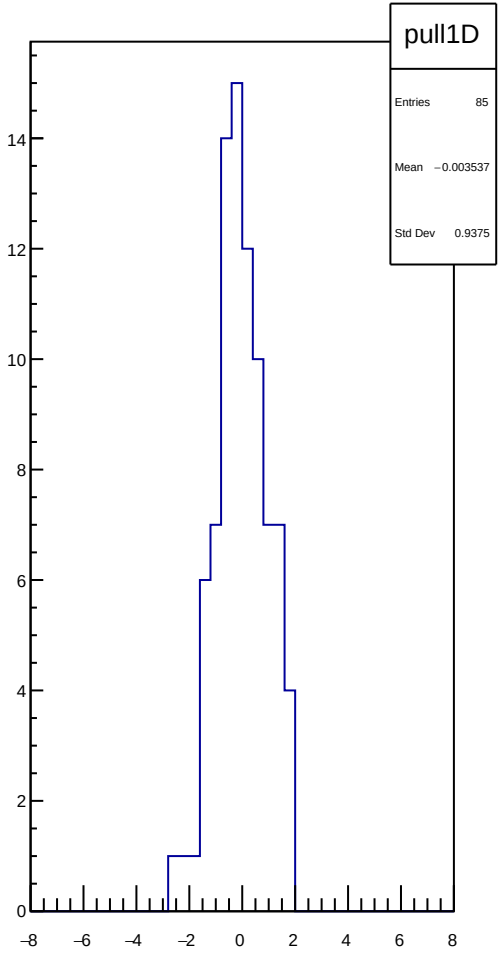

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 84
p0 6.816e−12 ± 8.562e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

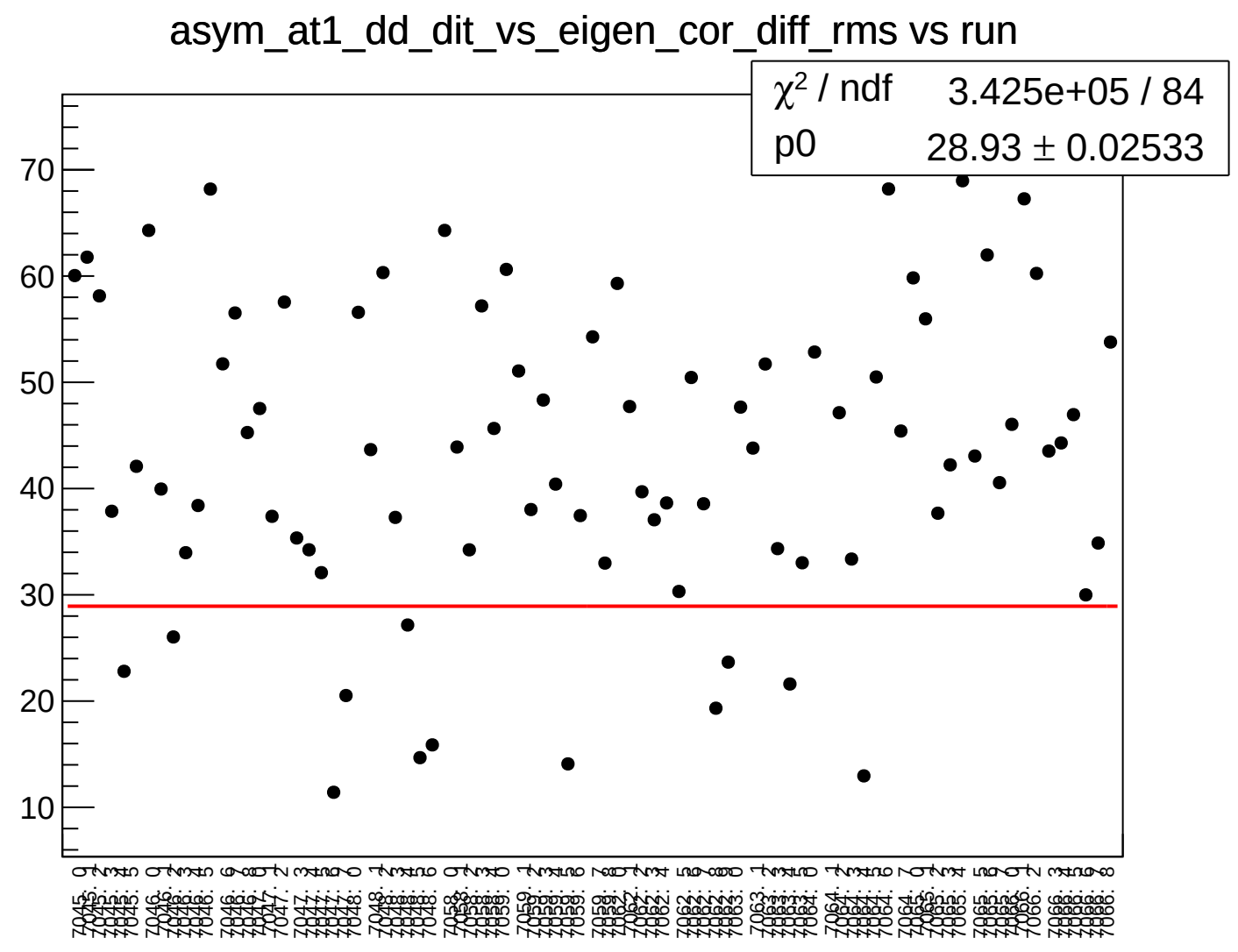

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.7 / 84
p0 −0.01615 ± 0.03582
pull
Entries 85
Mean 543.8
Std Dev 0

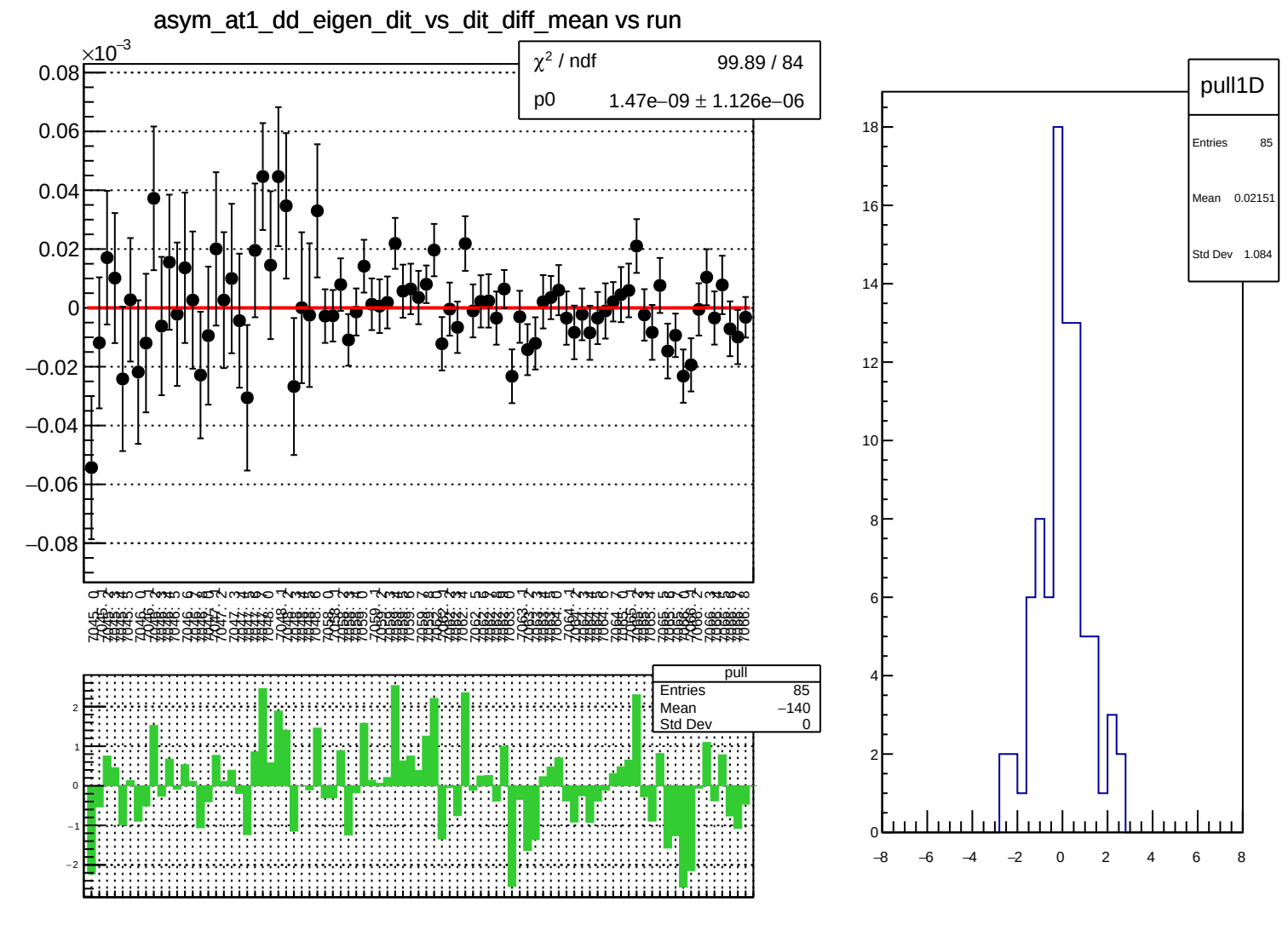

pull1D
Entries 85
Mean −0.003537
Std Dev 0.9375

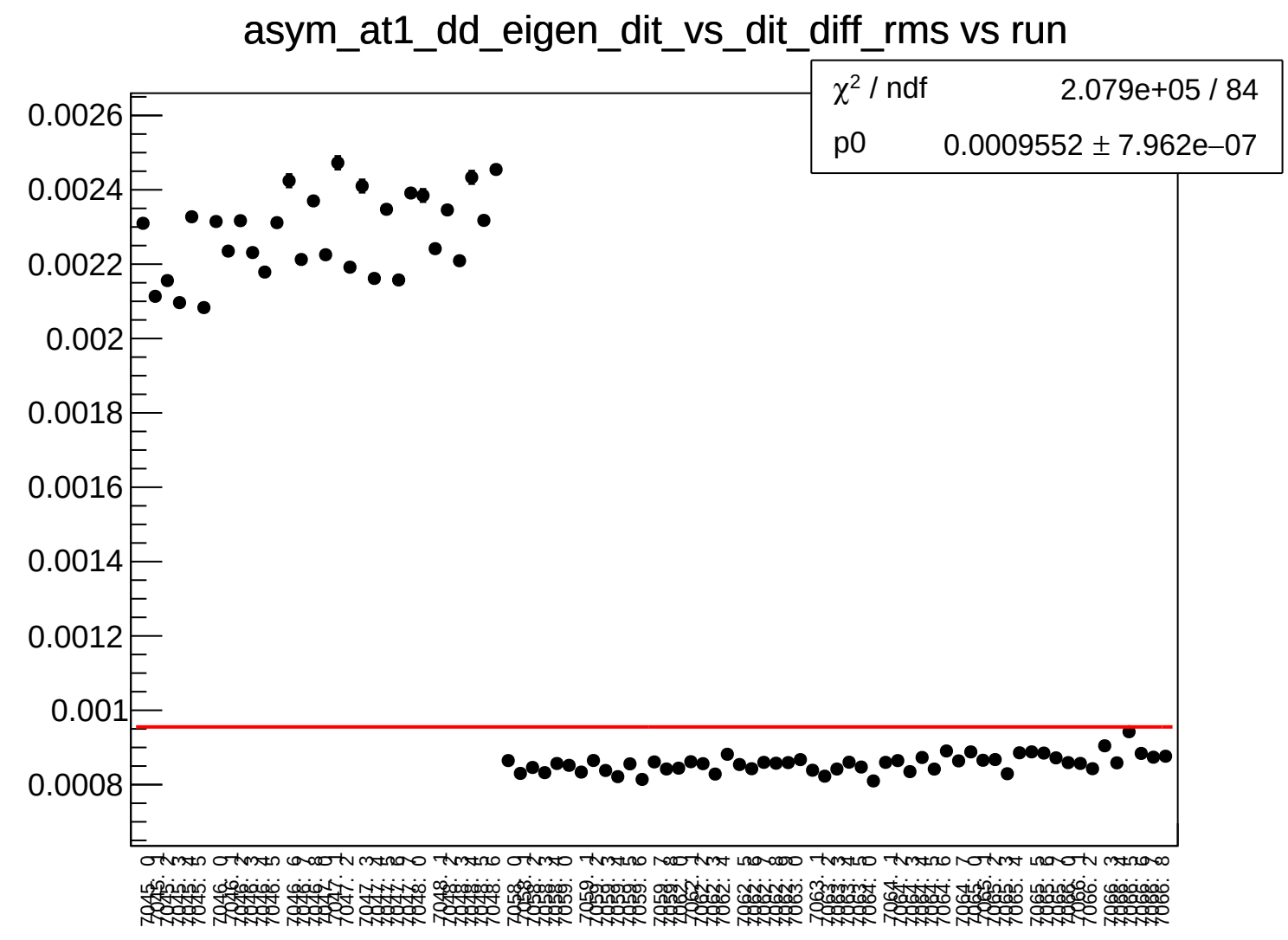

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.425e+05 / 84
p0 28.93 ± 0.02533
70
60
50
40
30
20
10

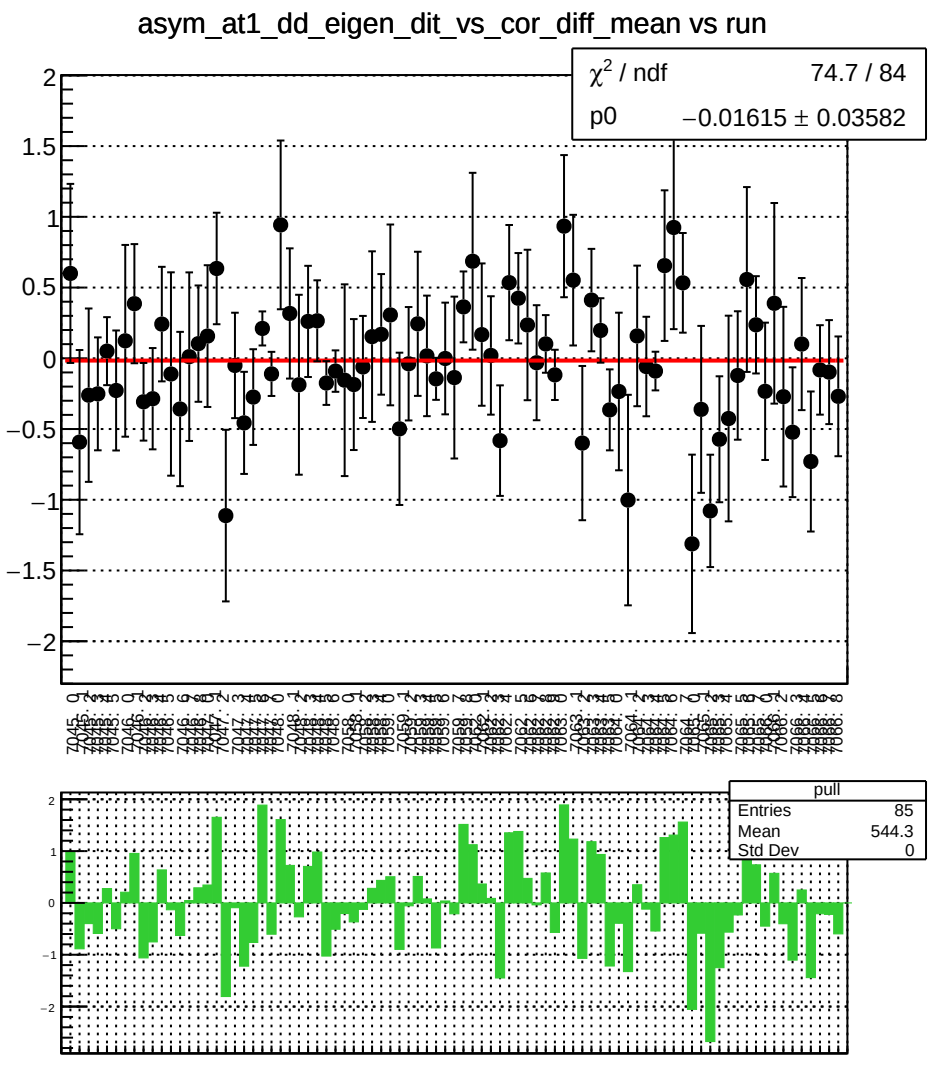

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.7 / 84
p0 −0.01615 ± 0.03582
pull
Entries 85
Mean 543.8
Std Dev 0

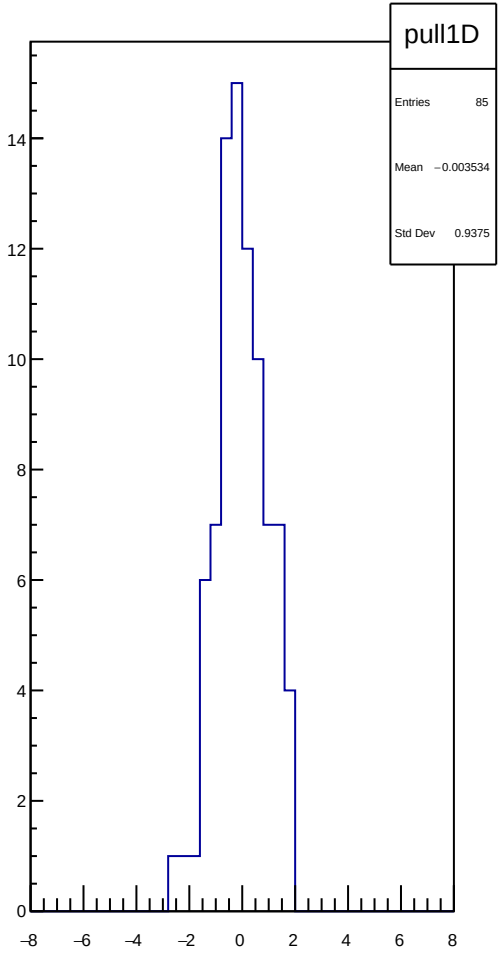

pull1D
Entries 85
Mean −0.003537
Std Dev 0.9375

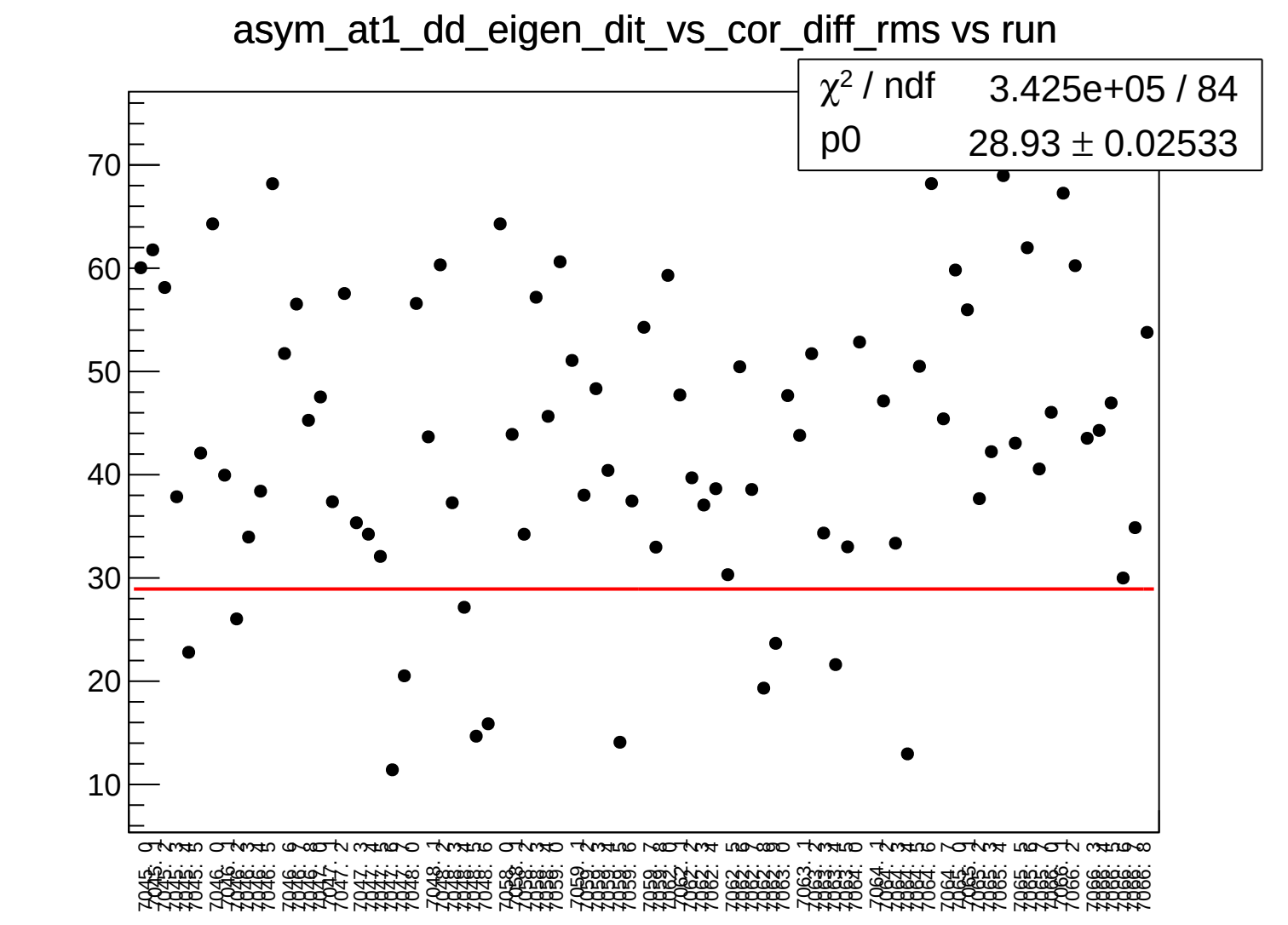

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.425e+05 / 84
p0 28.93 ± 0.02533
70
60
50
40
30
20
10

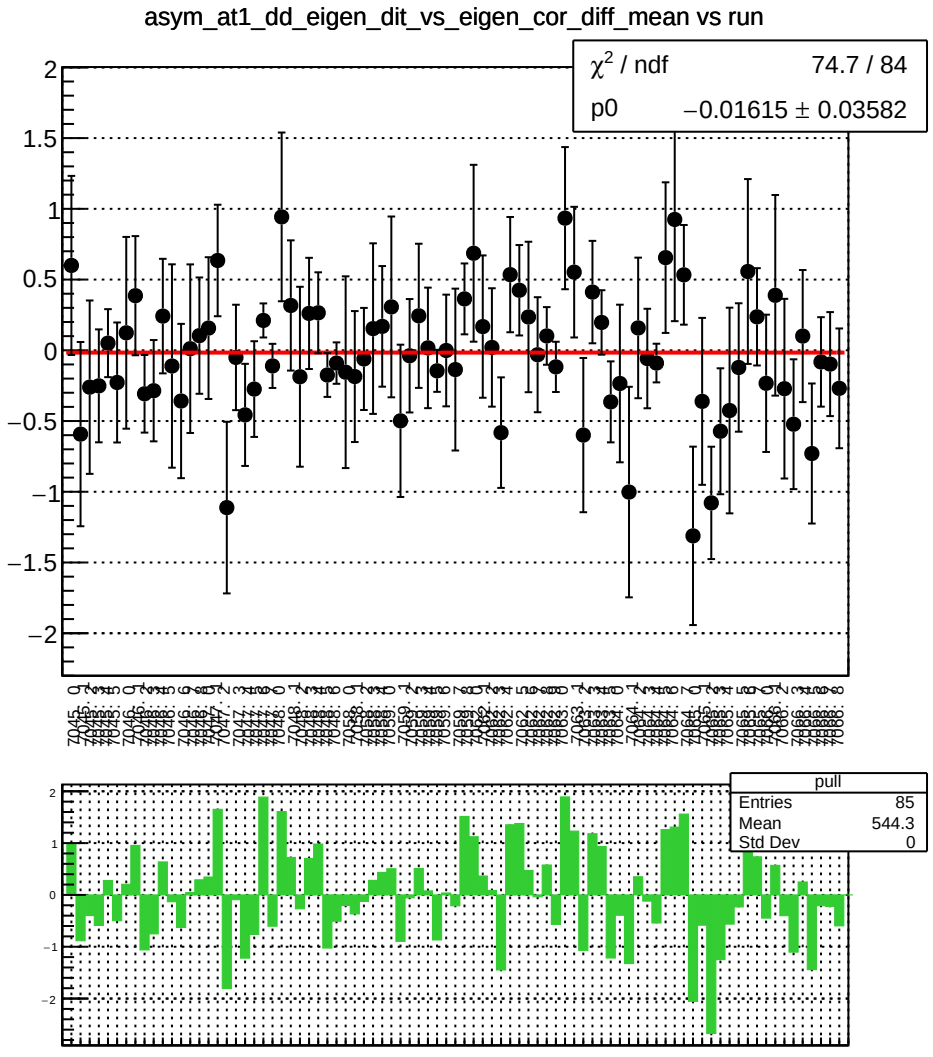

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.89 / 84
p0 1.47e−09 ± 1.126e−06
pull
Entries 85
Mean −140
Std Dev 0
pull1D
Entries 85
Mean 0.02151
Std Dev 1.084

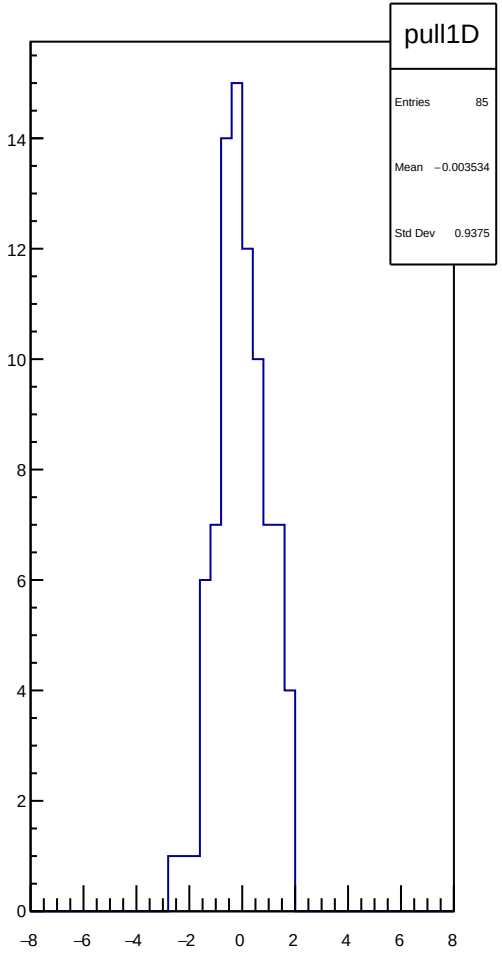

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.079e+05 / 84
p0 0.0009552 ± 7.962e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

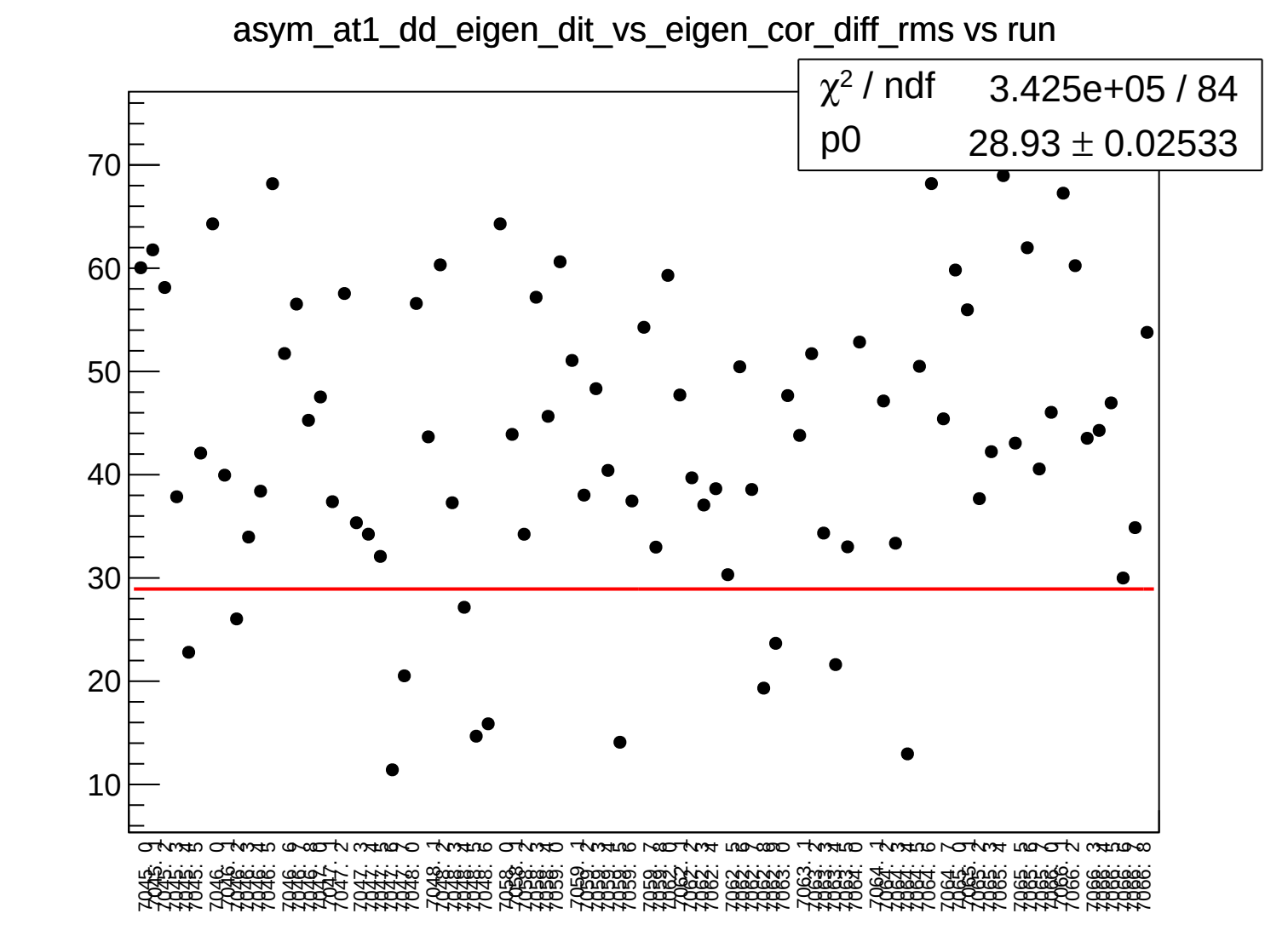

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.7 / 84
p0 −0.01615 ± 0.03582
pull
Entries 85
Mean 544.3
Std Dev 0

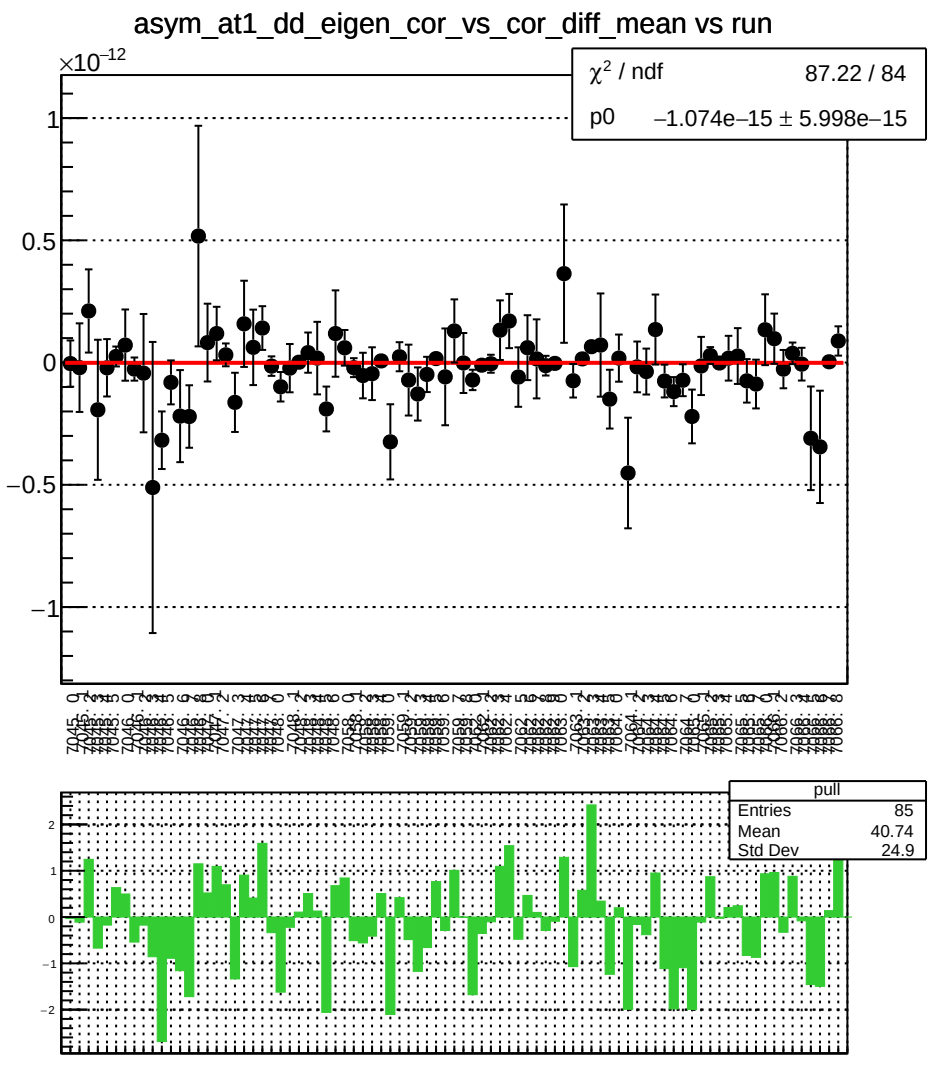

pull1D
Entries 85
Mean −0.003534
Std Dev 0.9375

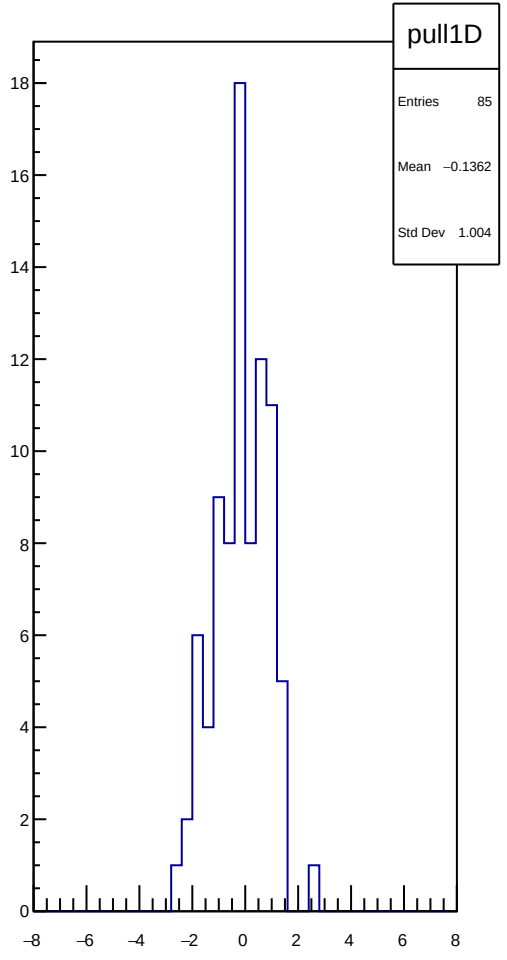

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.425e+05 / 84
p0 28.93 ± 0.02533
70
60
50
40
30
20
10

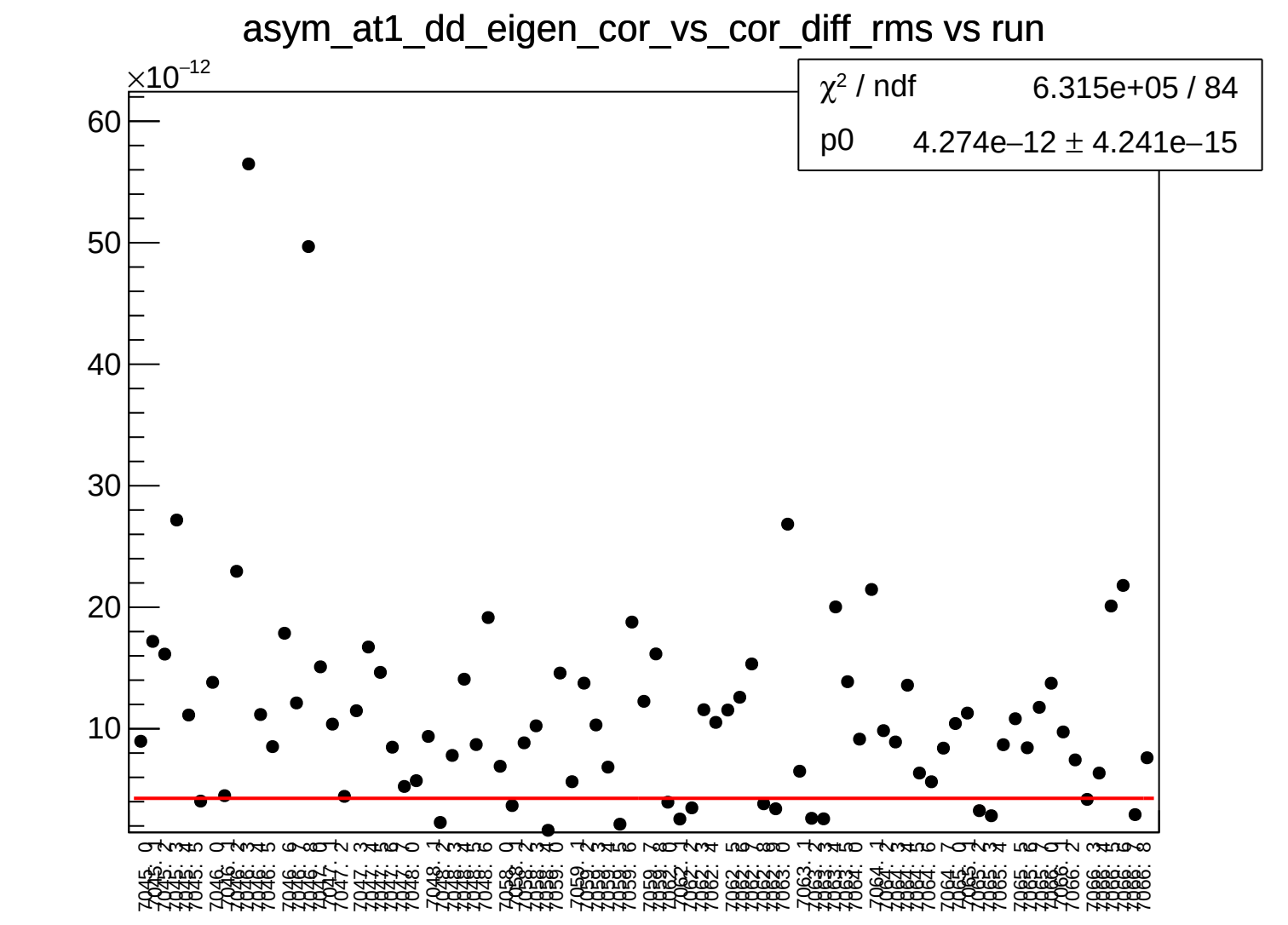

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.7 / 84
p0 −0.01615 ± 0.03582
pull
Entries 85
Mean 544.3
Std Dev 0

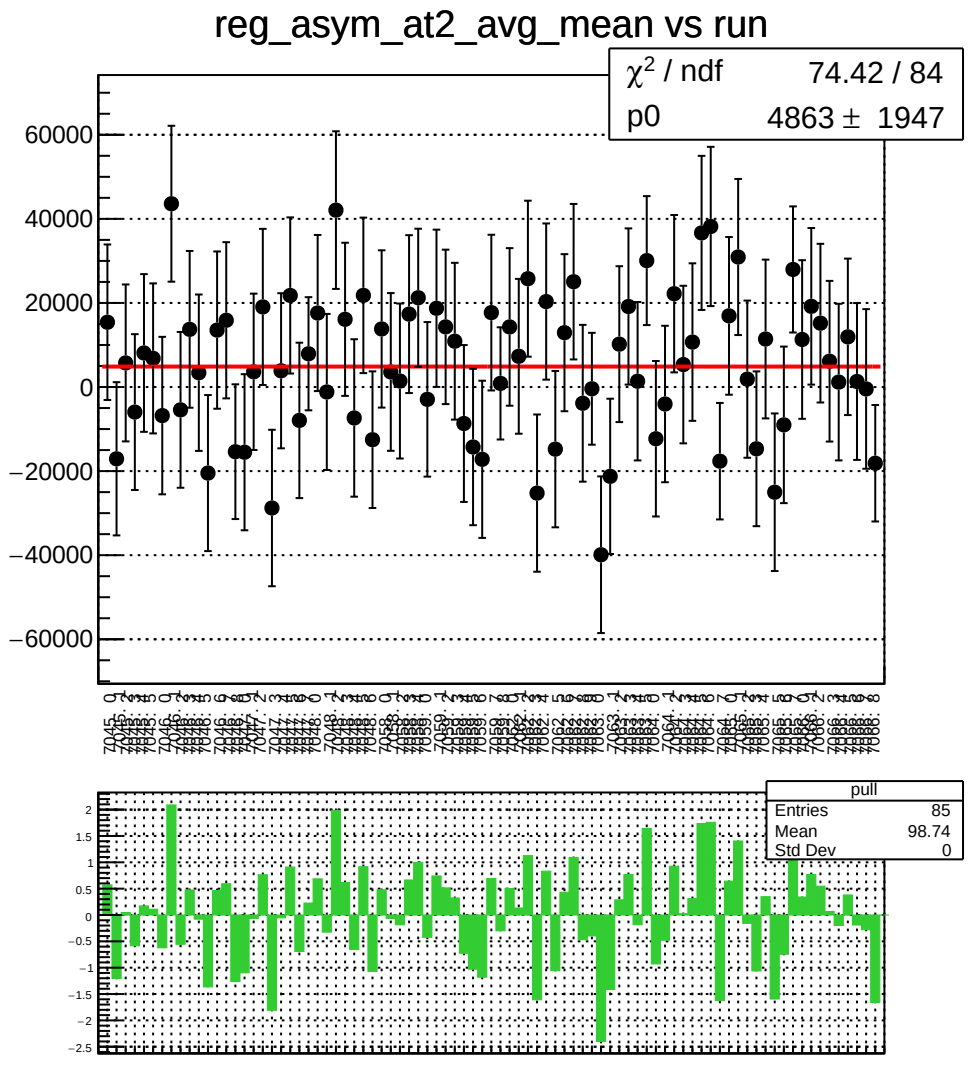

pull1D
Entries 85
Mean −0.003534
Std Dev 0.9375

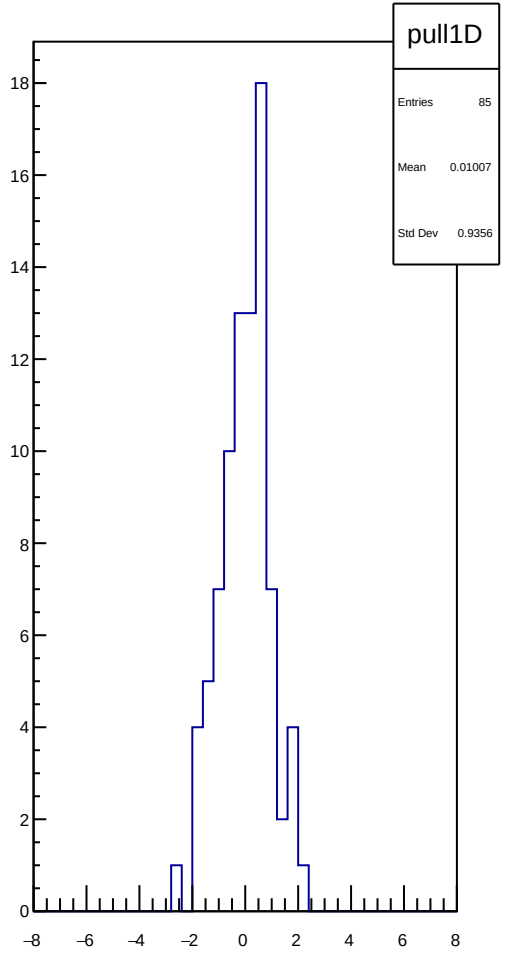

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.425e+05 / 84
p0 28.93 ± 0.02533
70
60
50
40
30
20
10

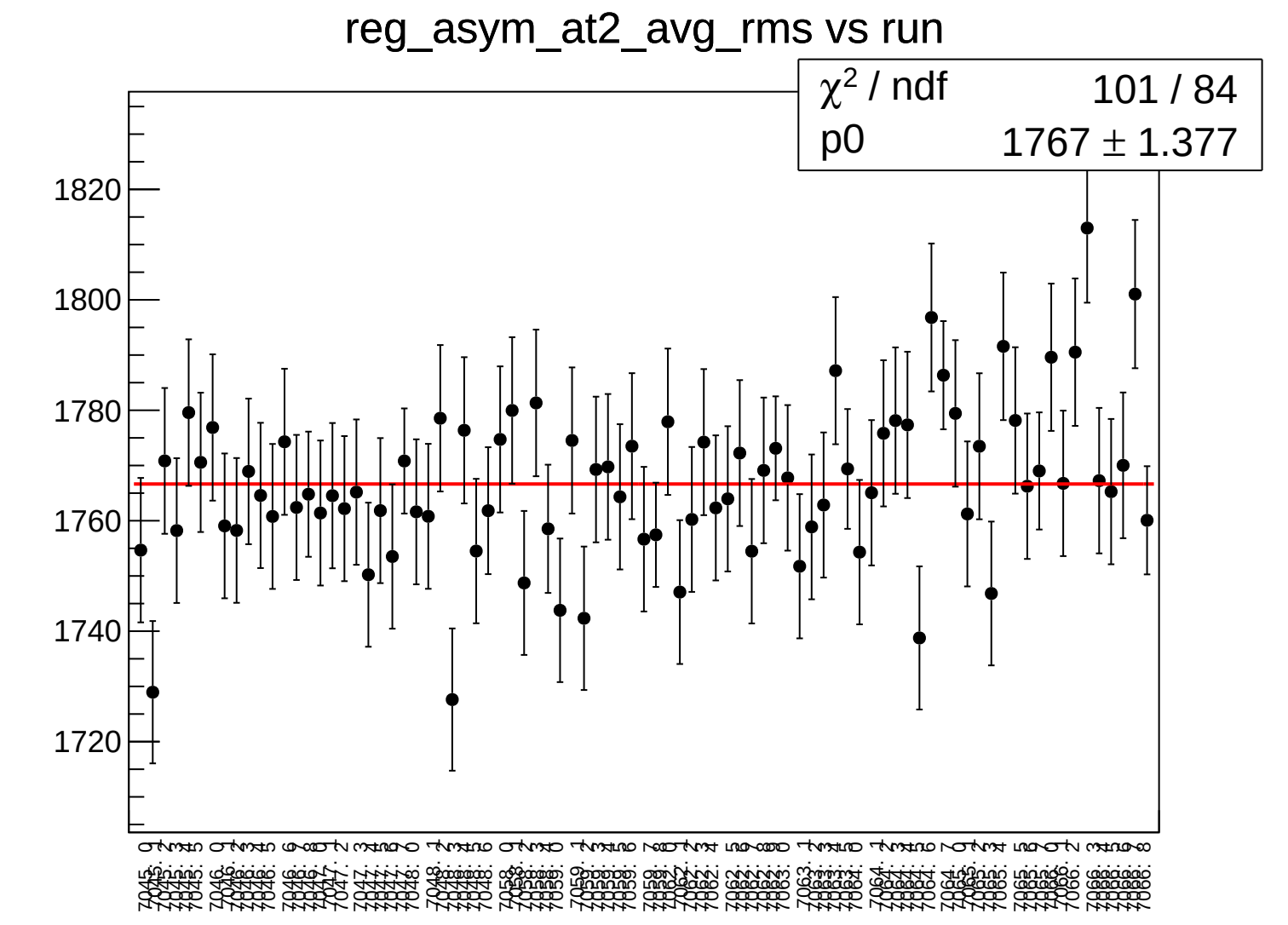

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.22 / 84
p0 −1.074e−15 ± 5.998e−15
1
0.5
0
−0.5
−1
pull
Entries 85
Mean 40.74
Std Dev 24.9
2
1
0
−1
−2

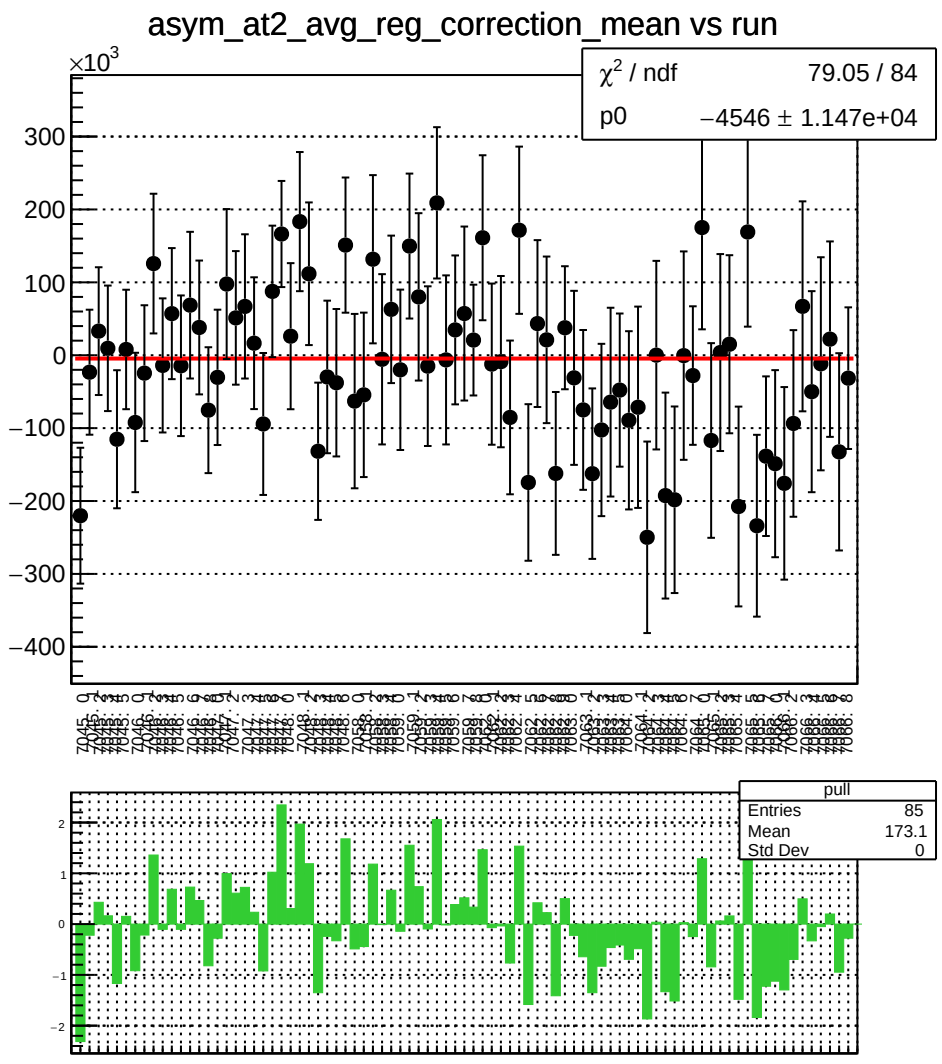

pull1D
Entries 85
Mean −0.1362
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

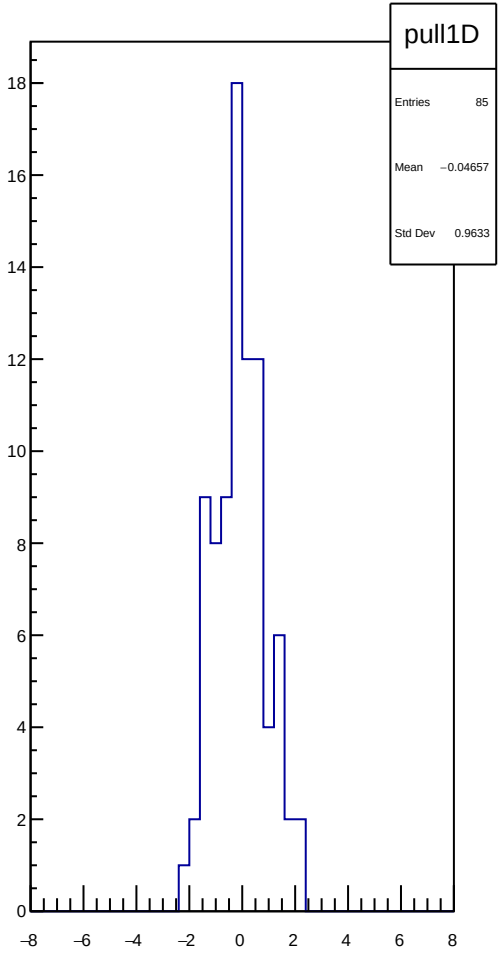

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.315e+05 / 84
p0 4.274e−12 ± 4.241e−15
60
50
40
30
20
10

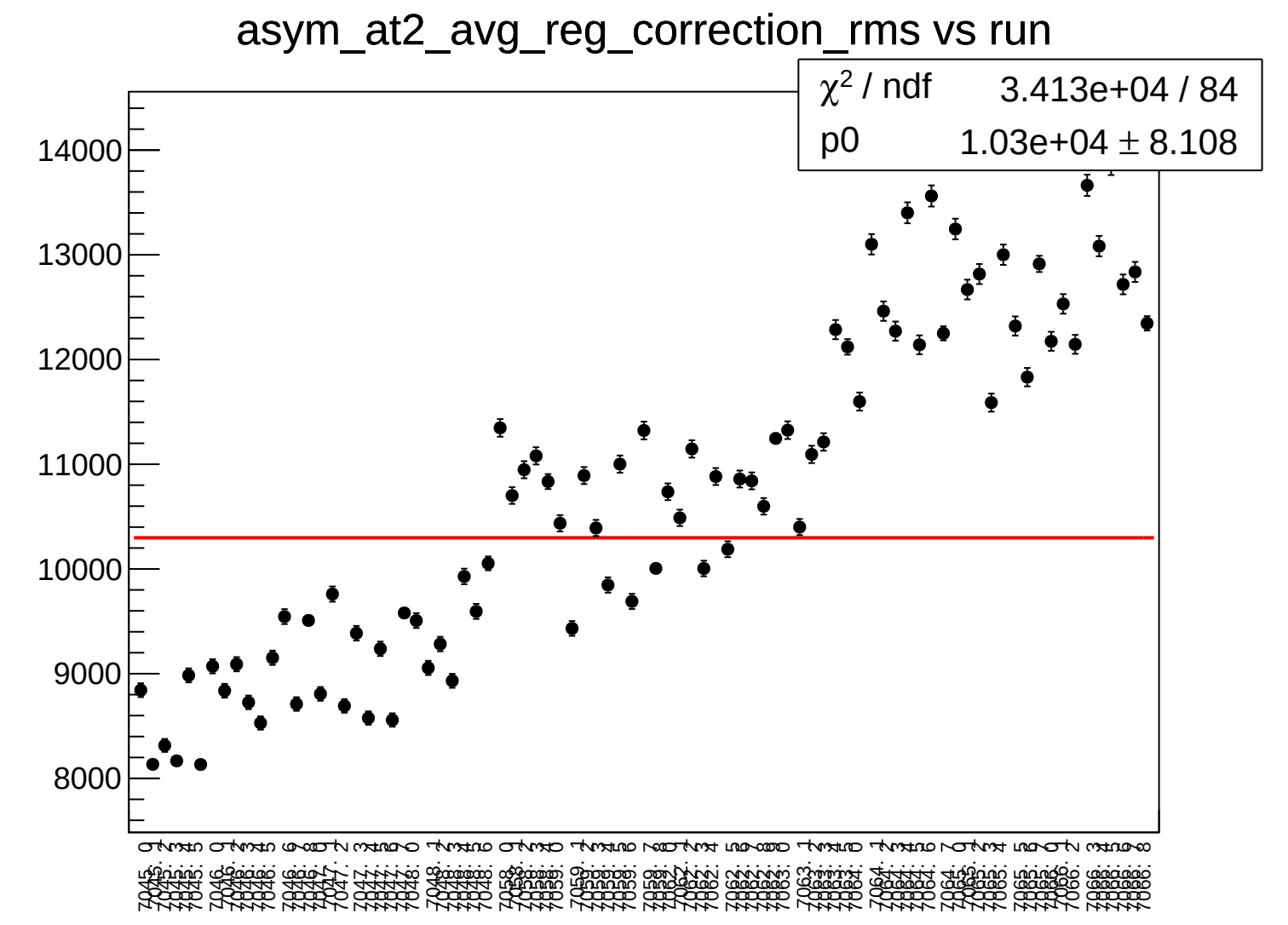

reg_asym_at2_avg_mean vs run
χ² / ndf 74.42 / 84
p0 4863 ± 1947
pull
Entries 85
Mean 98.74
Std Dev 0

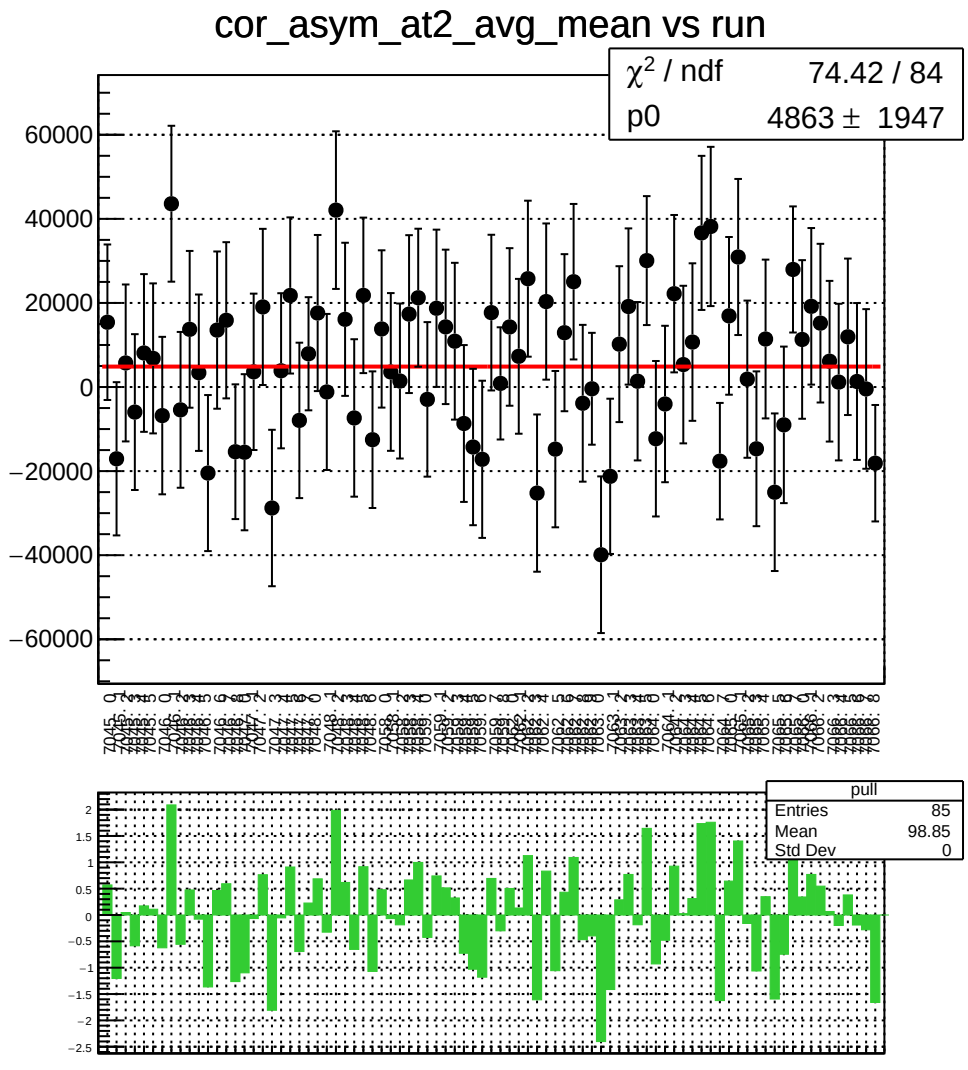

pull1D
Entries 85
Mean 0.01007
Std Dev 0.9356

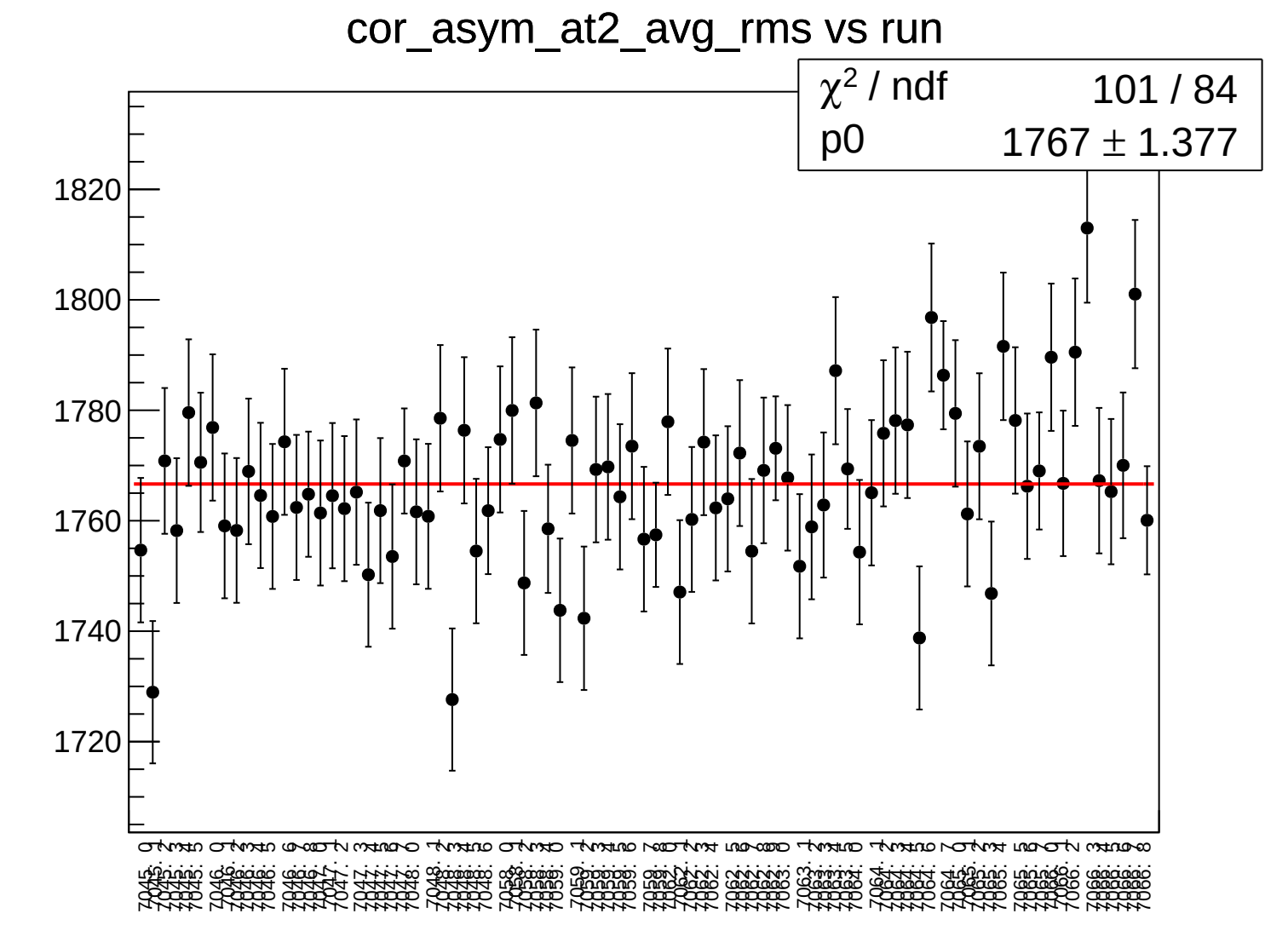

reg_asym_at2_avg_rms vs run
χ^2 / ndf 101 / 84
p0 1767 ± 1.377
1820
1800
1780
1760
1740
1720

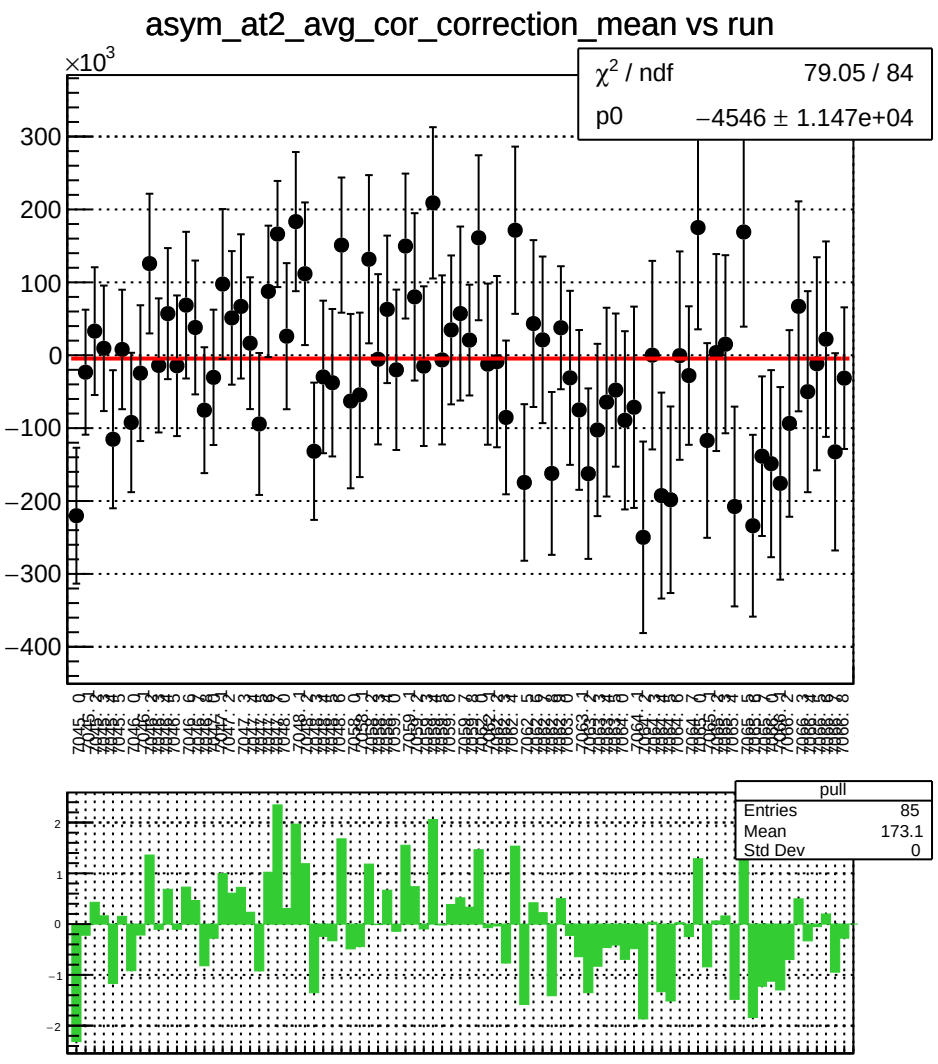

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.05 / 84
p0 −4546 ± 1.147e+04
pull
Entries 85
Mean 173.1
Std Dev 0

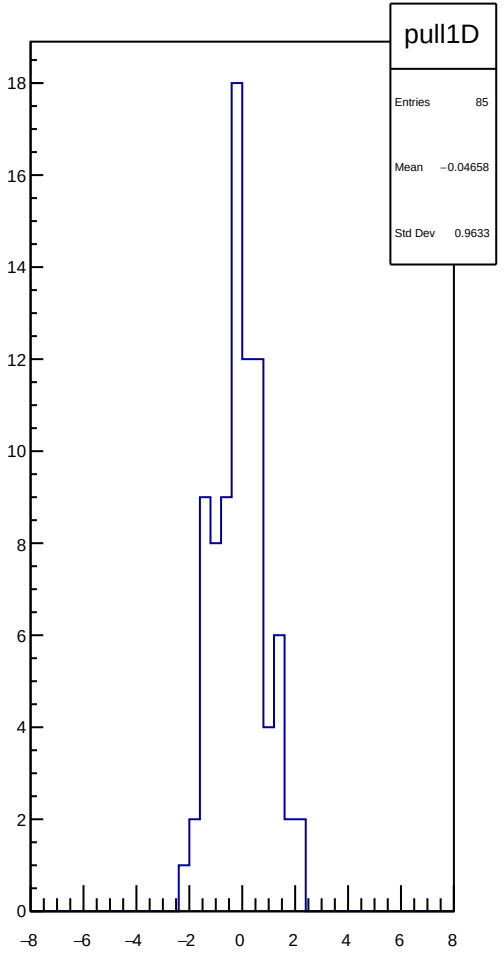

pull1D
Entries 85
Mean −0.04657
Std Dev 0.9633

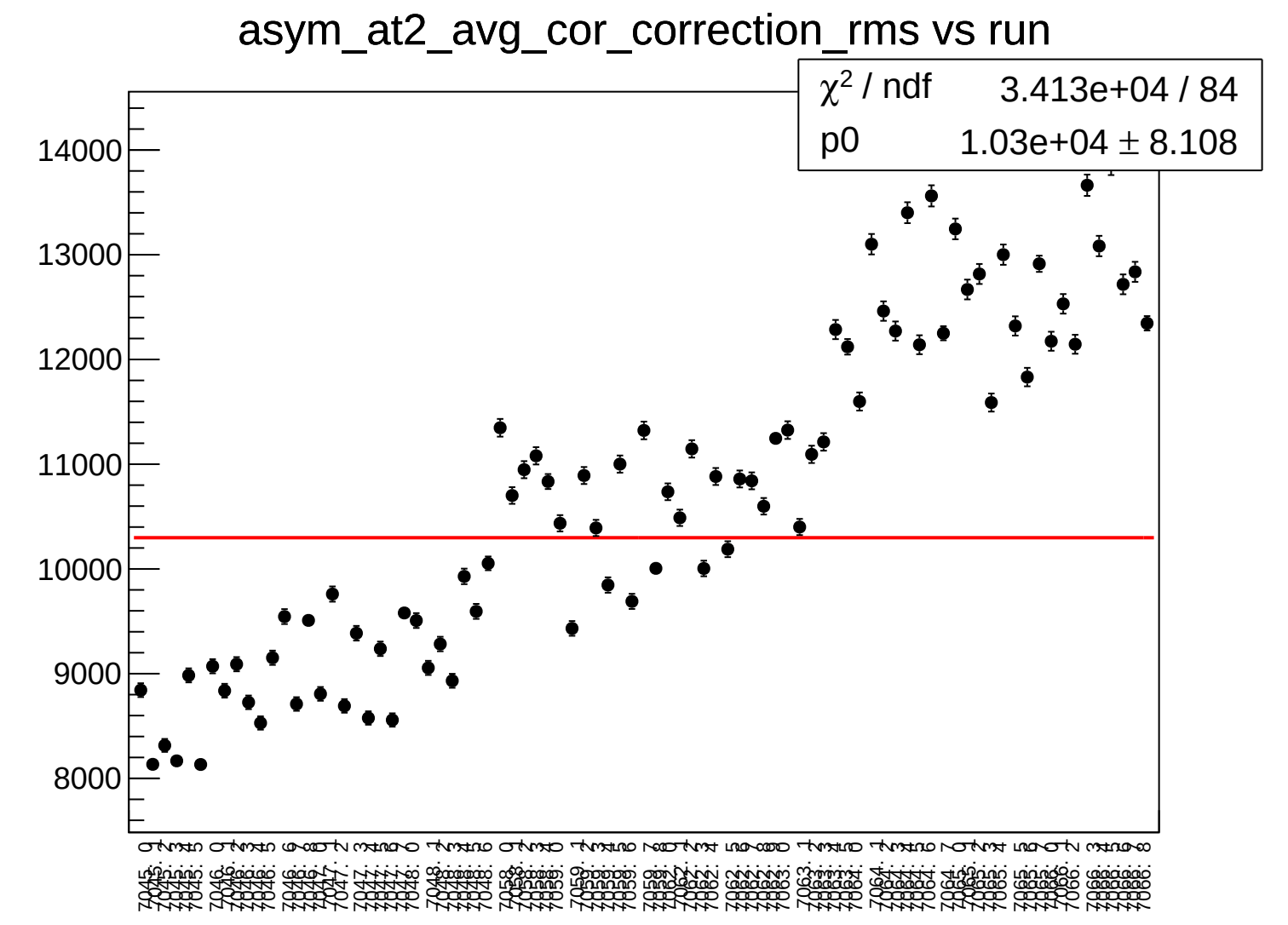

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3.413e+04 / 84
p0 1.03e+04 ± 8.108
14000
13000
12000
11000
10000
9000
8000

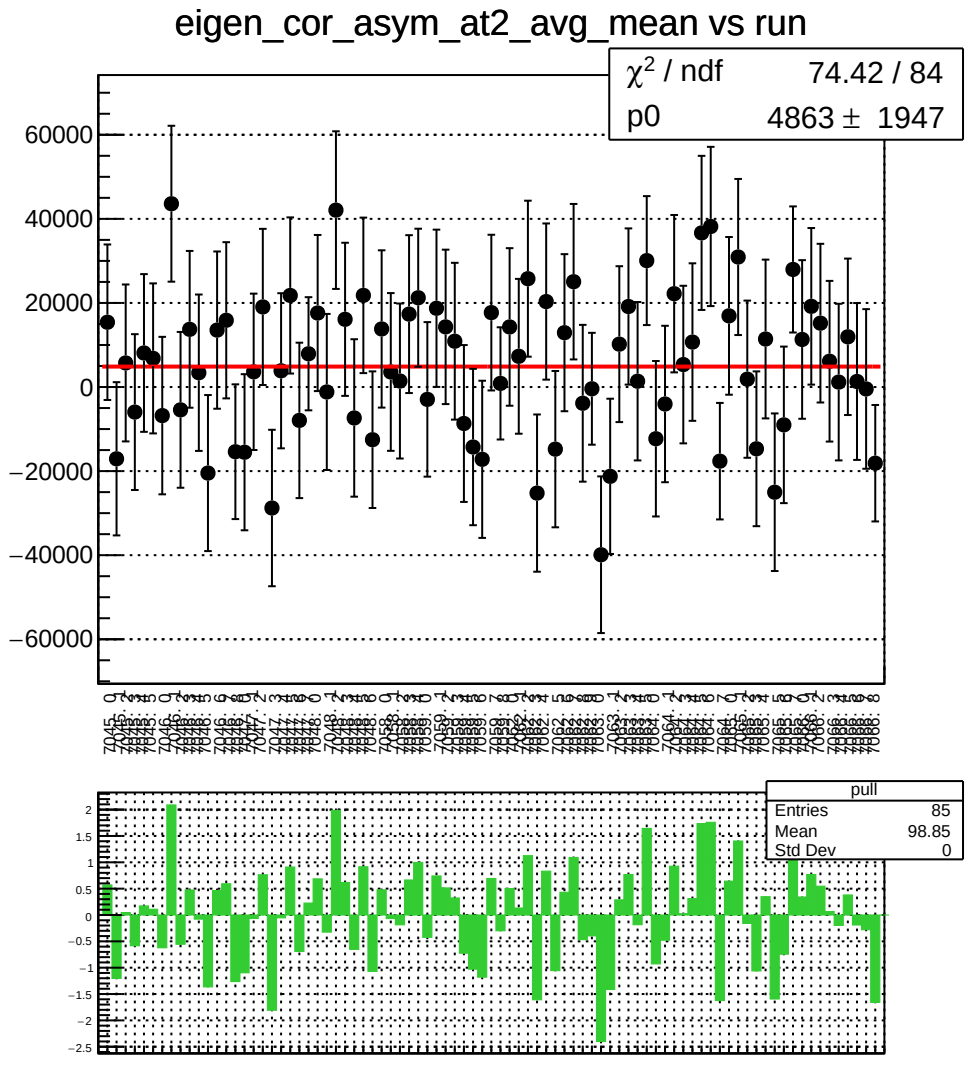

cor_asym_at2_avg_mean vs run
χ² / ndf 74.42 / 84
p0 4863 ± 1947
pull
Entries 85
Mean 98.85
Std Dev 0
pull1D
Entries 85
Mean 0.01007
Std Dev 0.9356

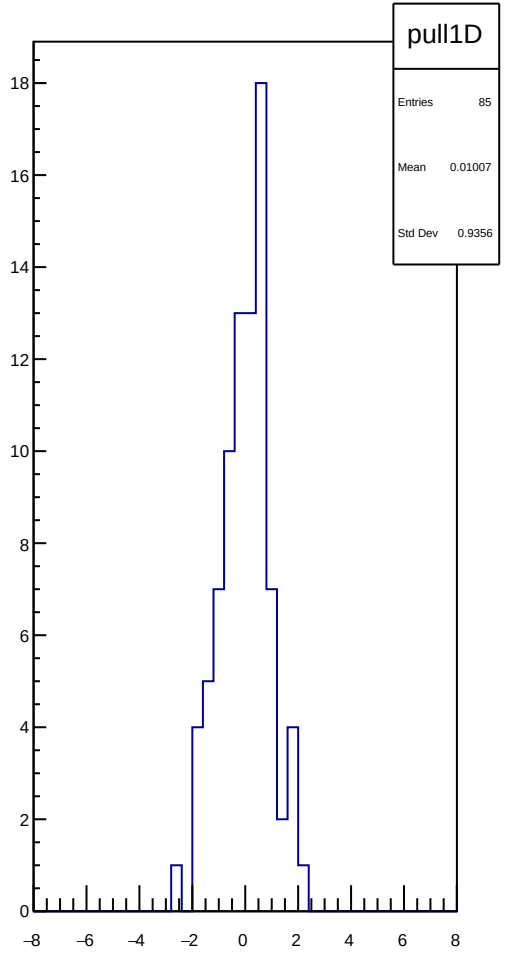

cor_asym_at2_avg_rms vs run
χ^2 / ndf 101 / 84
p0 1767 ± 1.377
1820
1800
1780
1760
1740
1720

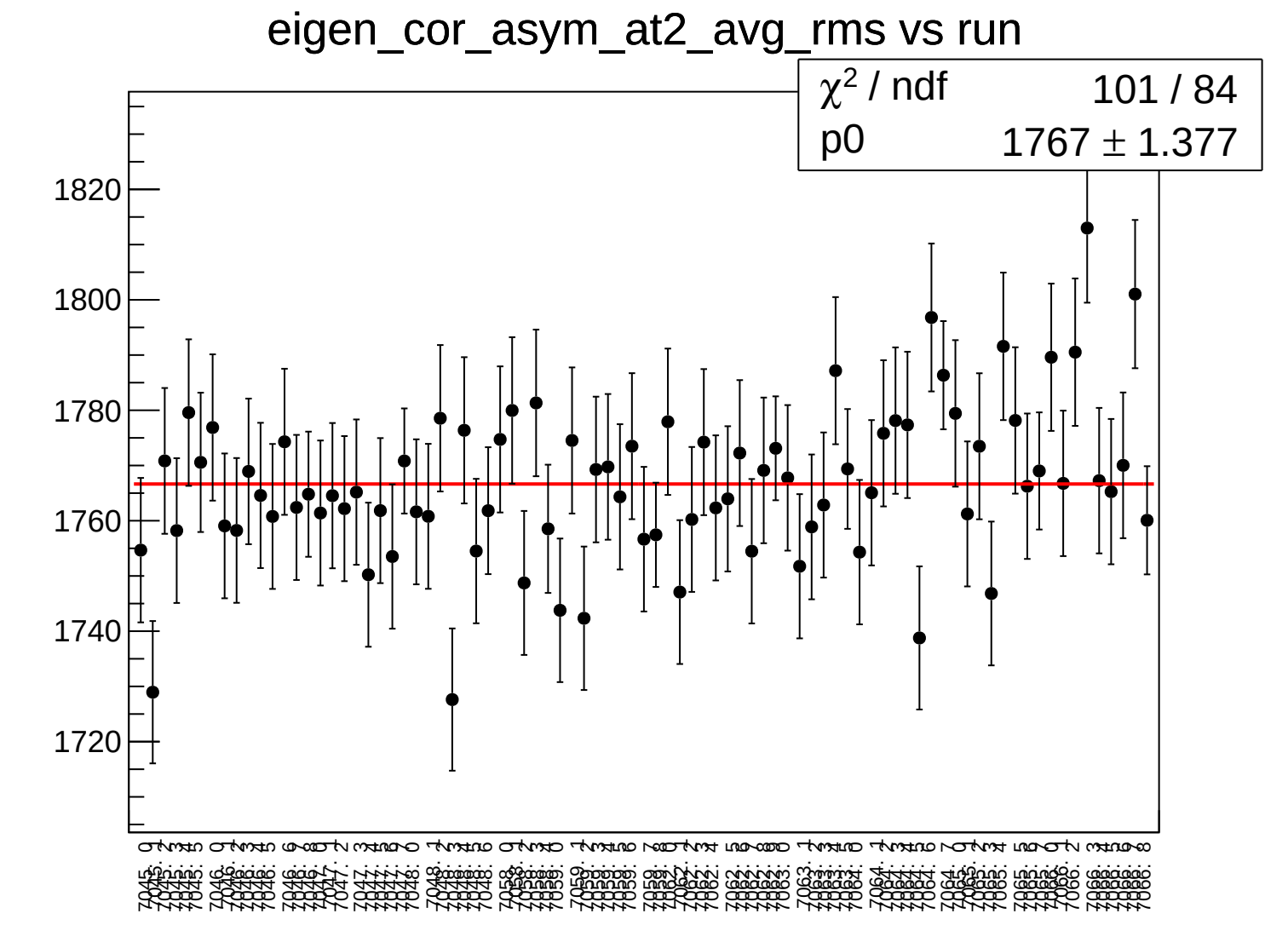

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.05 / 84
p0 −4546 ± 1.147e+04
pull
Entries 85
Mean 173.1
Std Dev 0

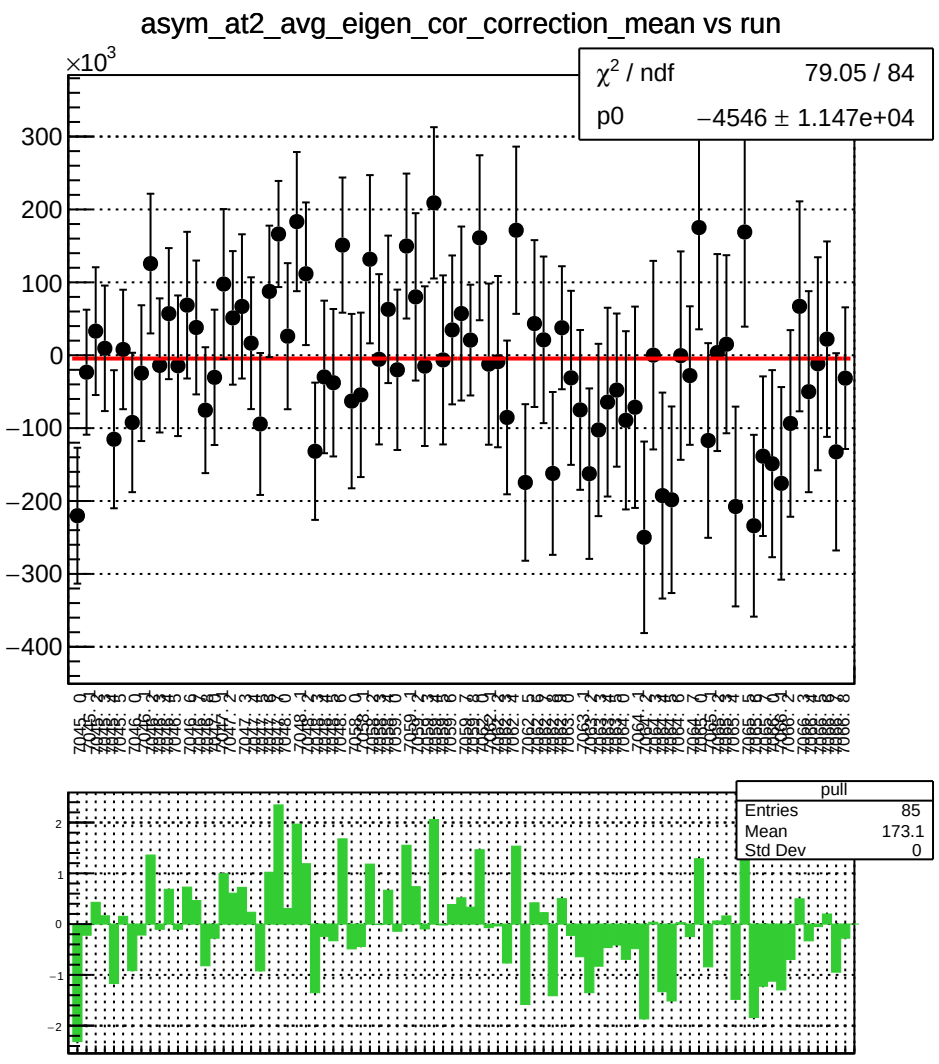

pull1D
Entries 85
Mean −0.04658
Std Dev 0.9633

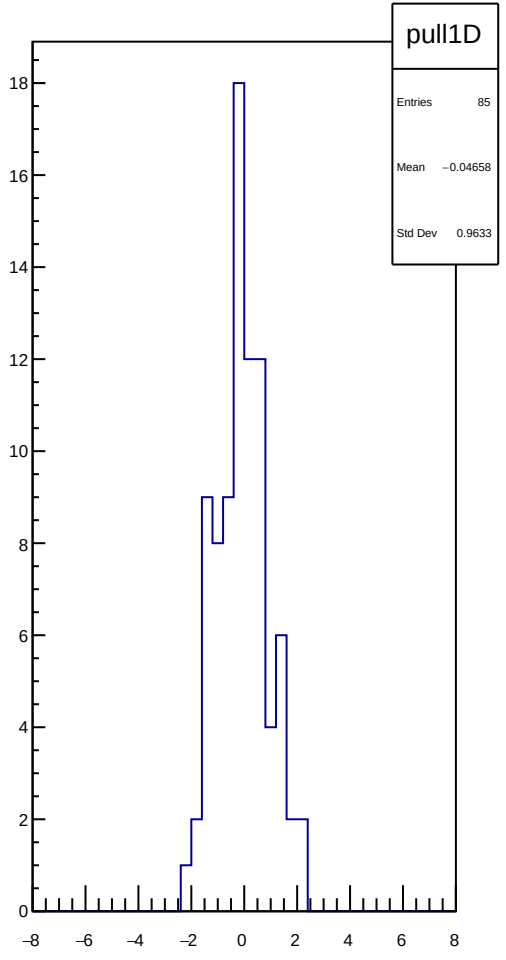

asym_at2_avg_cor_correction_rms vs run
χ^2 / ndf 3.413e+04 / 84
p0 1.03e+04 ± 8.108
14000
13000
12000
11000
10000
9000
8000

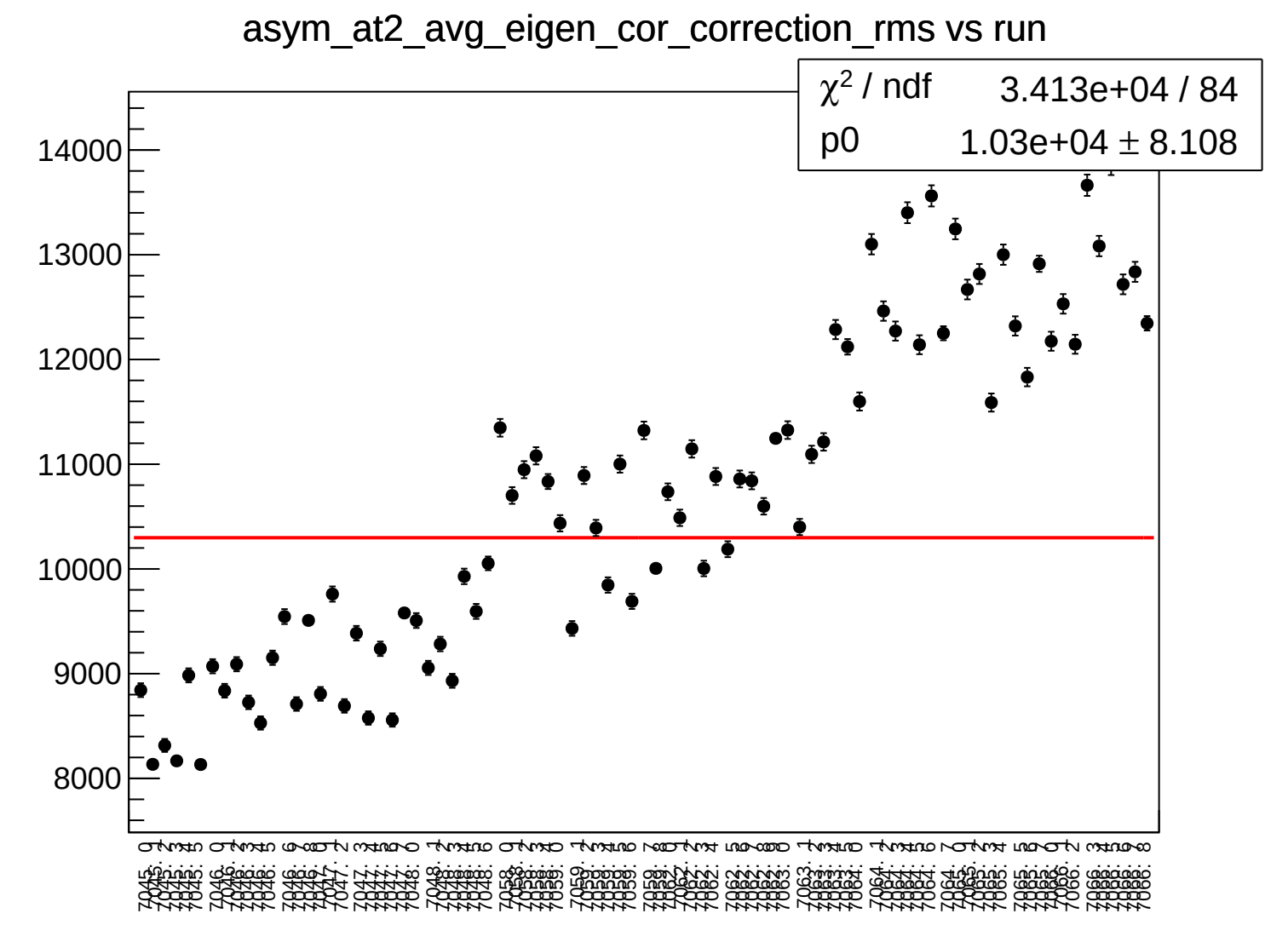

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 74.42 / 84
p0 4863 ± 1947
pull
Entries 85
Mean 98.85
Std Dev 0

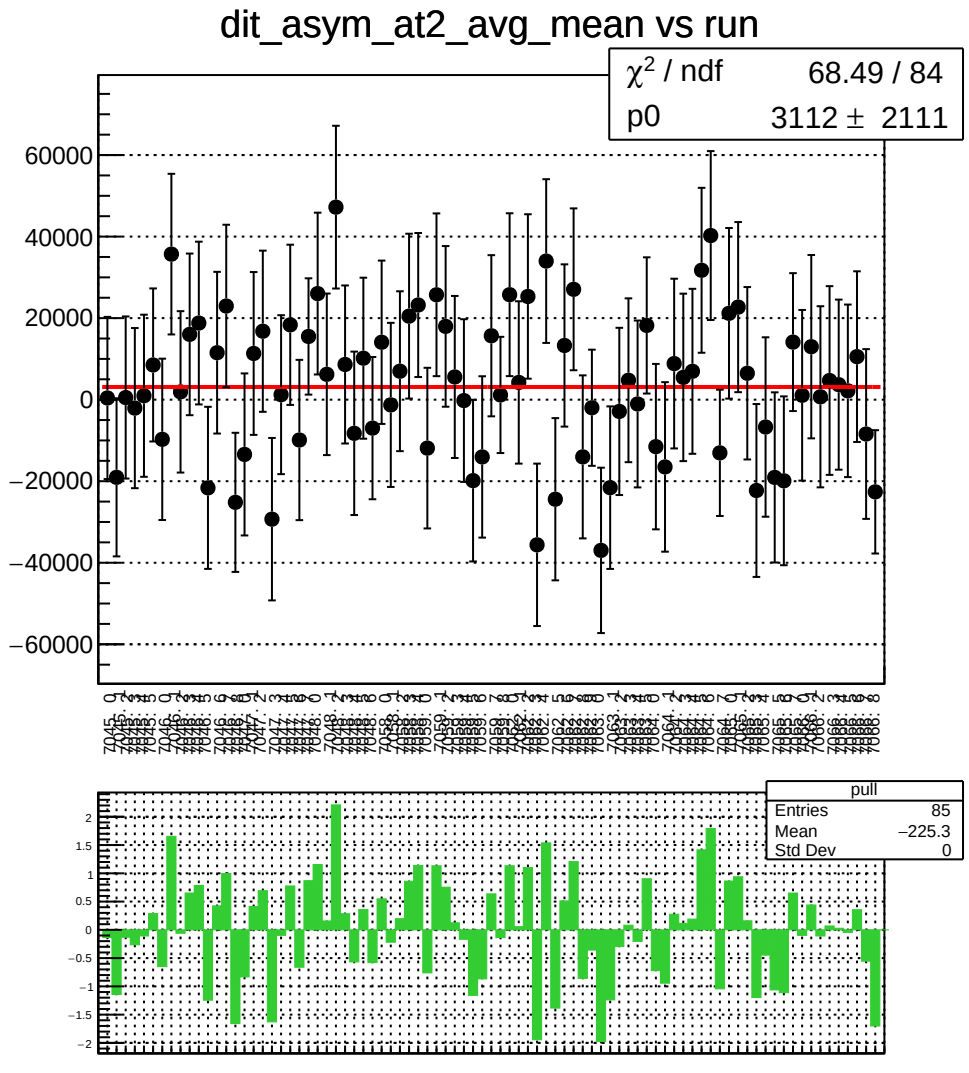

pull1D
Entries 85
Mean 0.01007
Std Dev 0.9356

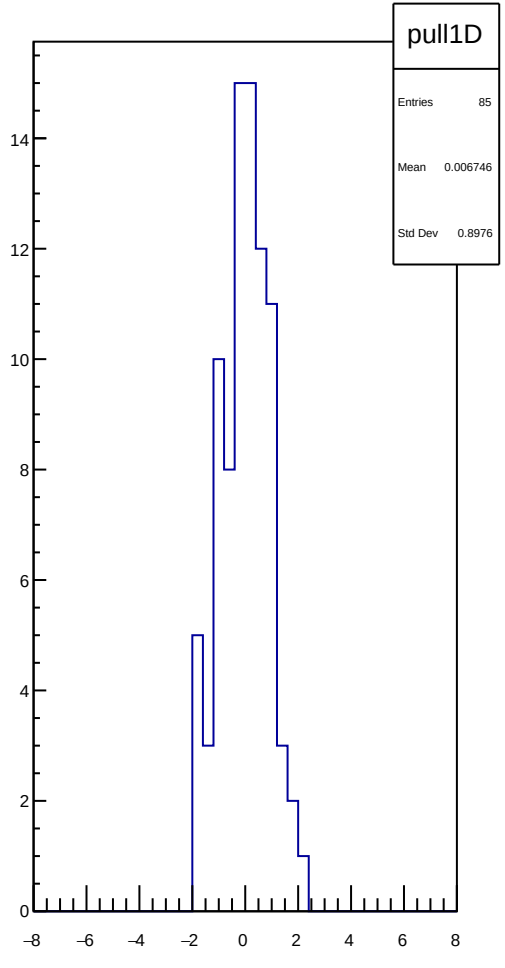

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 101 / 84
p0 1767 ± 1.377
1820
1800
1780
1760
1740
1720

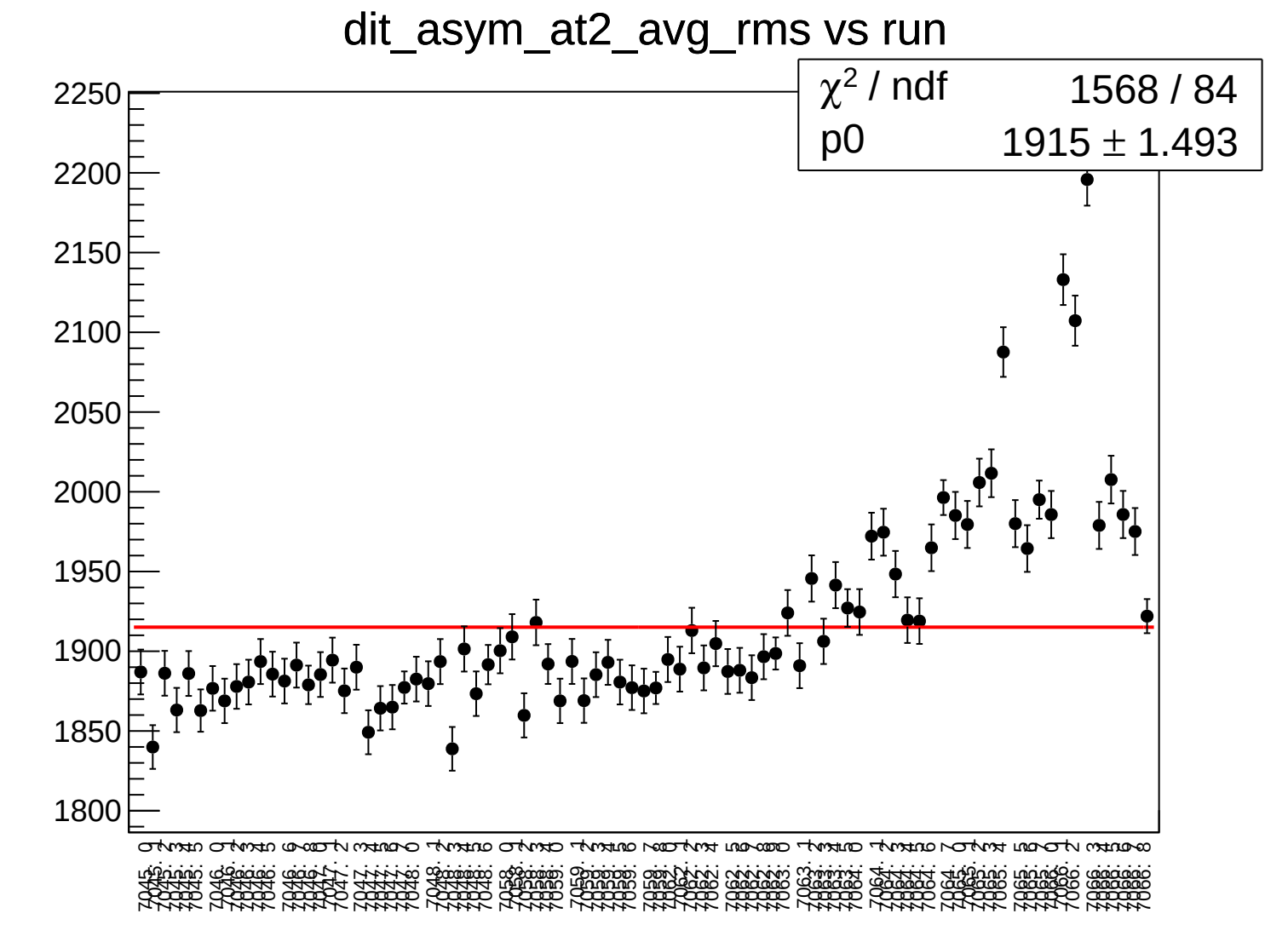

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.05 / 84
p0 −4546 ± 1.147e+04
pull
Entries 85
Mean 173.1
Std Dev 0

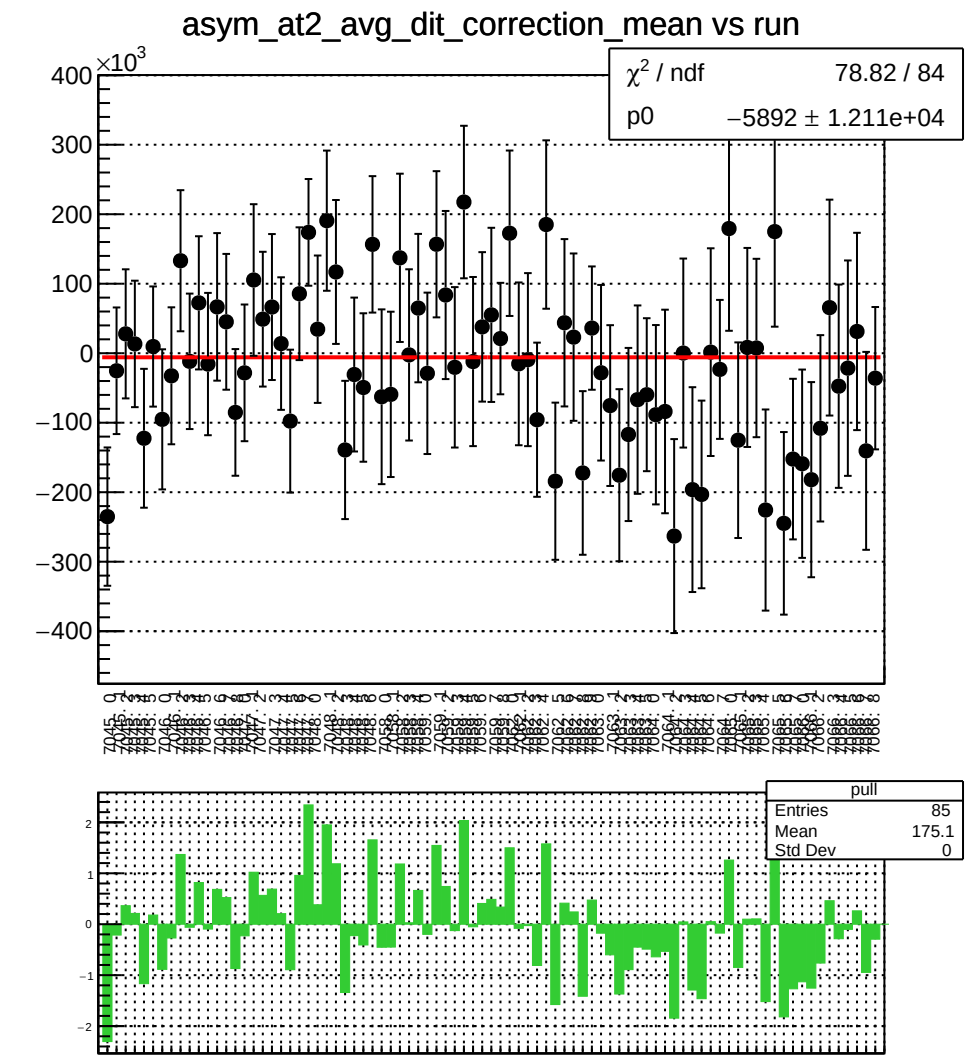

pull1D
Entries 85
Mean −0.04658
Std Dev 0.9633

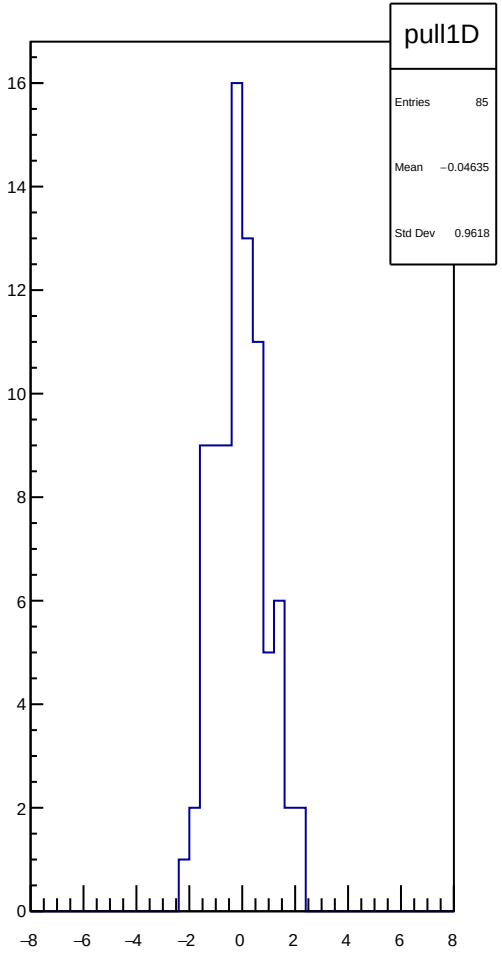

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3.413e+04 / 84
p0 1.03e+04 ± 8.108
14000
13000
12000
11000
10000
9000
8000

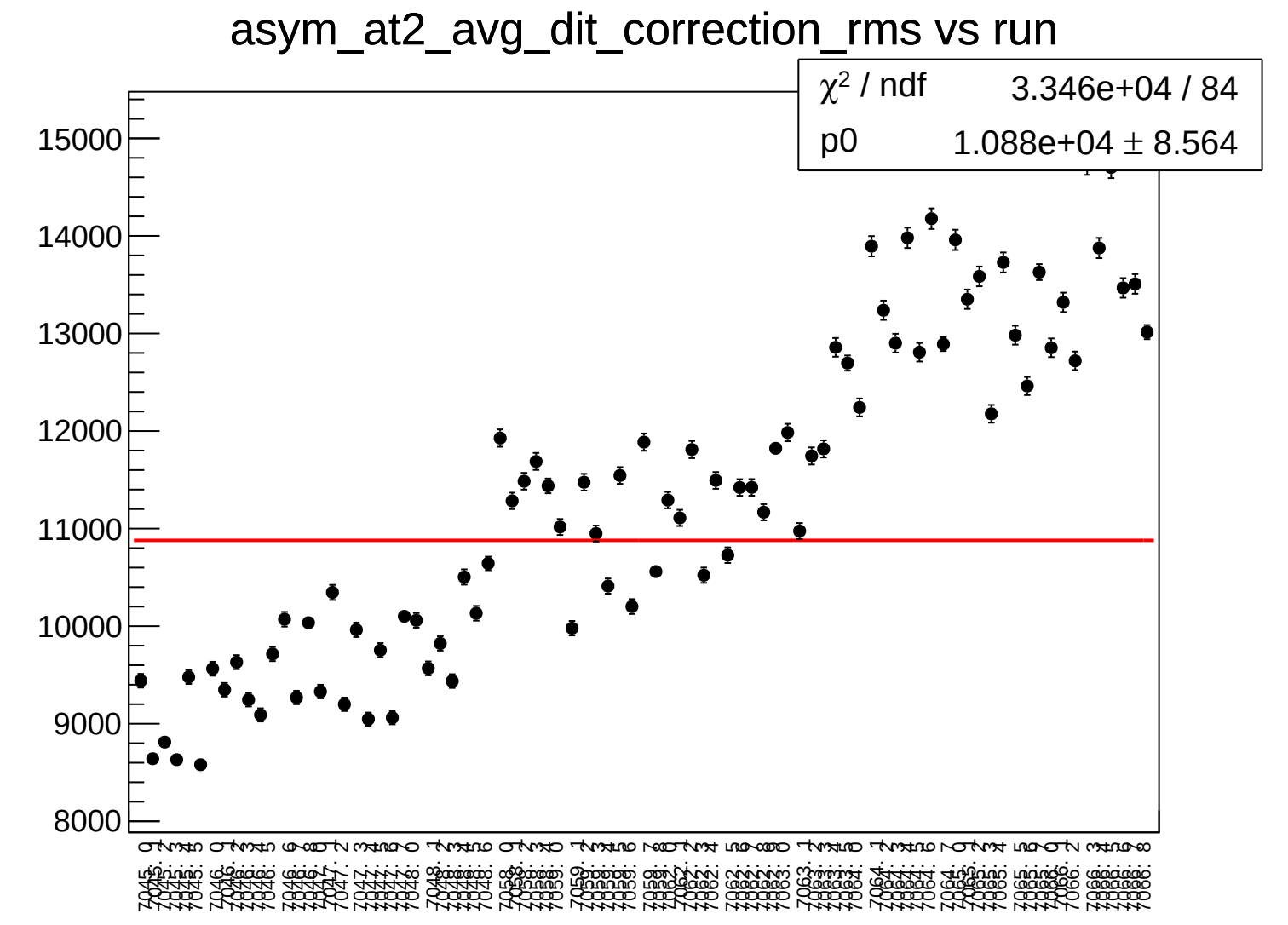

dit_asym_at2_avg_mean vs run
χ² / ndf 68.49 / 84
p0 3112 ± 2111
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −225.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

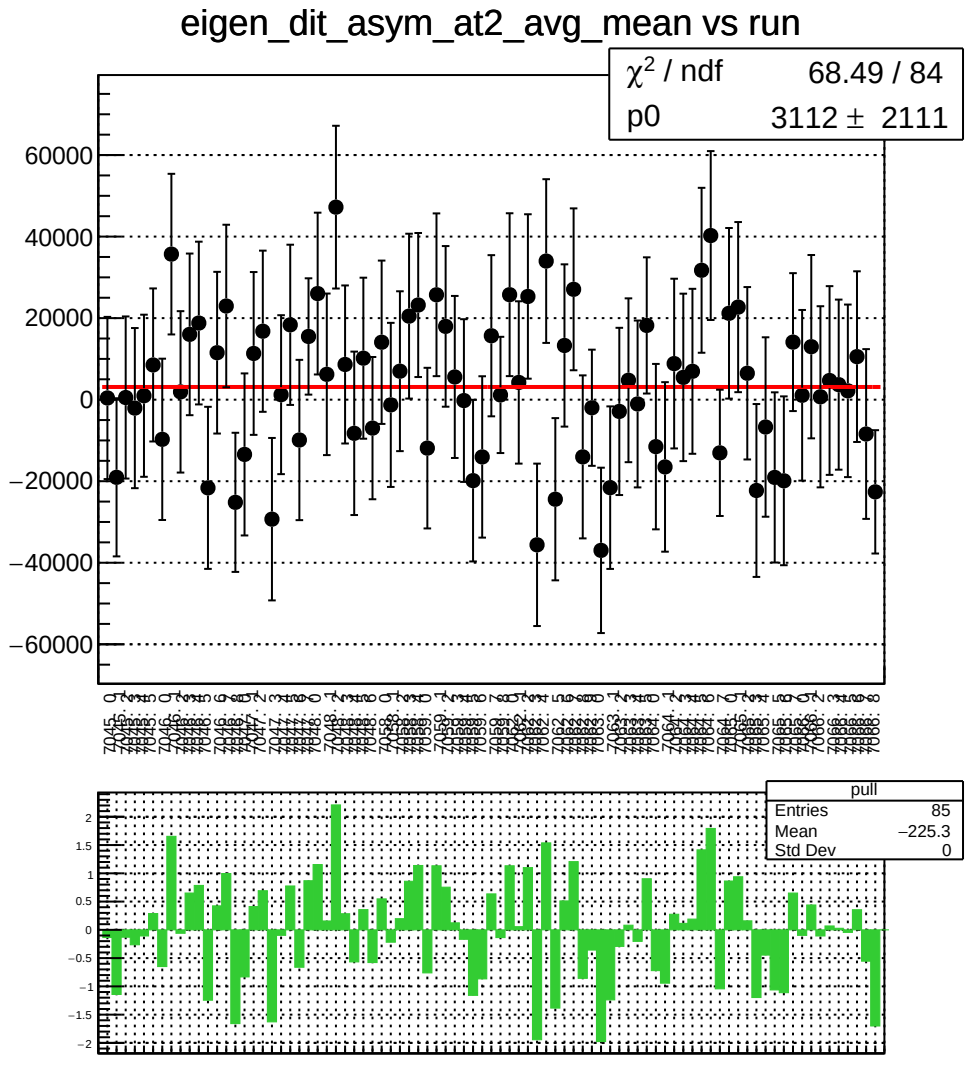

pull1D
Entries 85
Mean 0.006746
Std Dev 0.8976
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

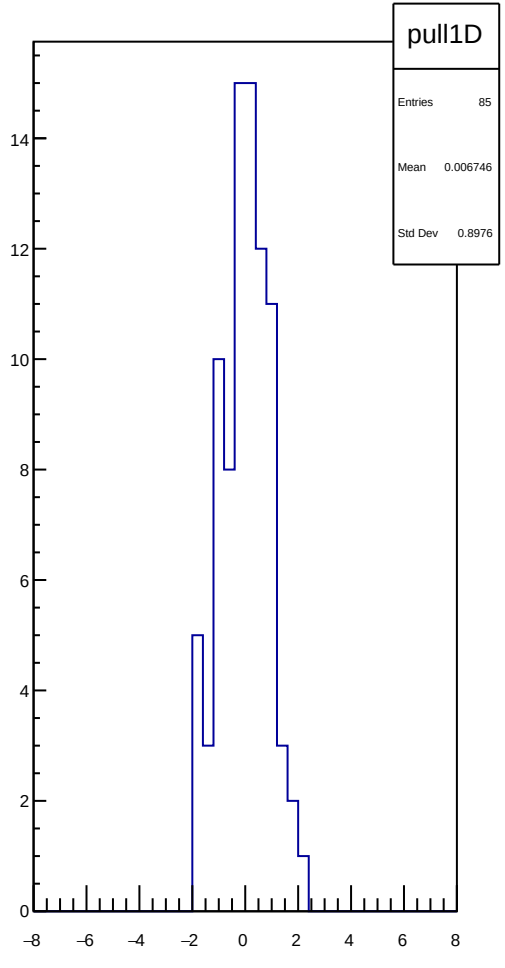

dit_asym_at2_avg_rms vs run
χ² / ndf 1568 / 84
p0 1915 ± 1.493
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

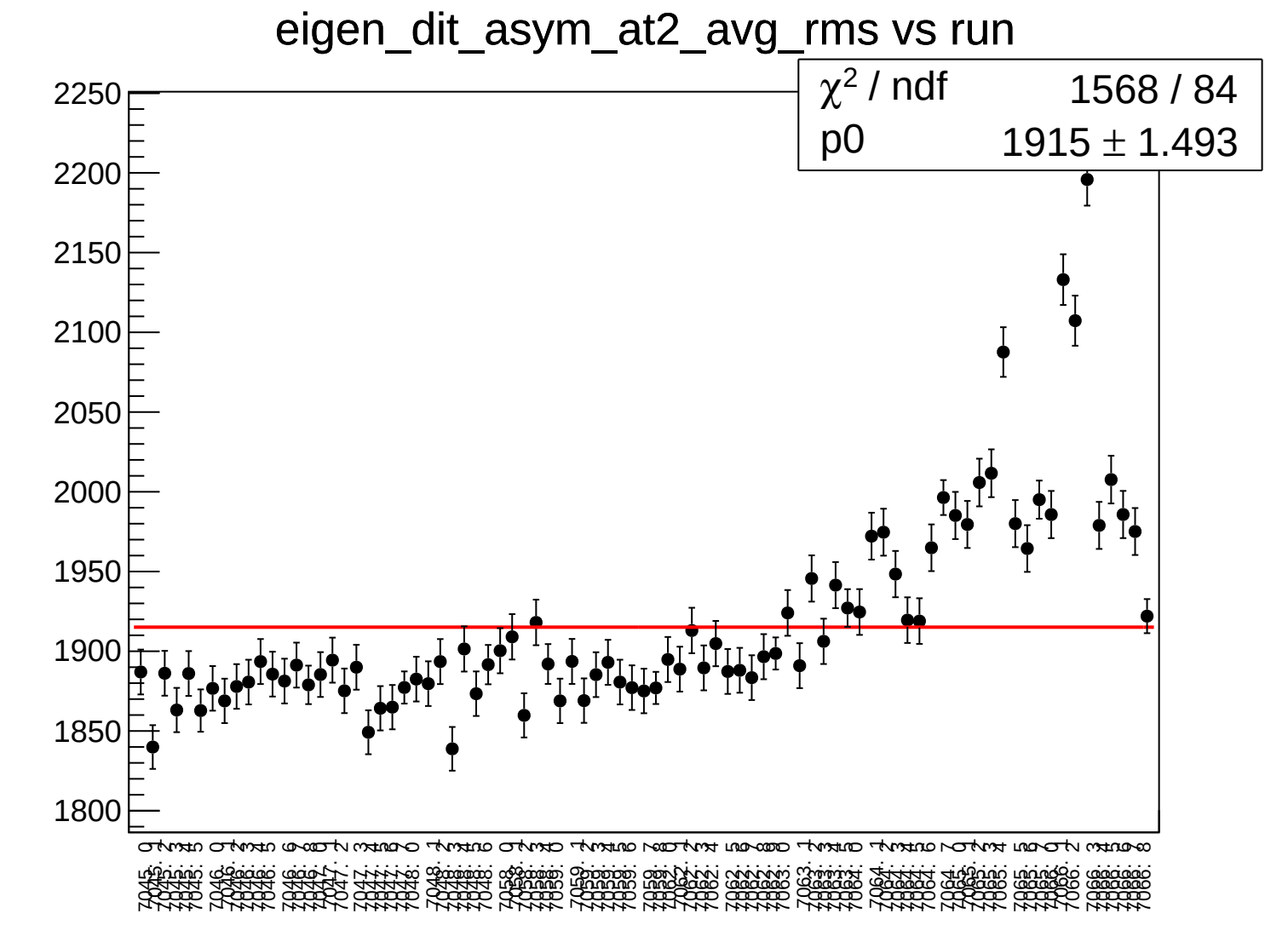

asym_at2_avg_dit_correction_mean vs run
χ² / ndf 78.82 / 84
p0 −5892 ± 1.211e+04
×10³
pull
Entries 85
Mean 175.1
Std Dev 0

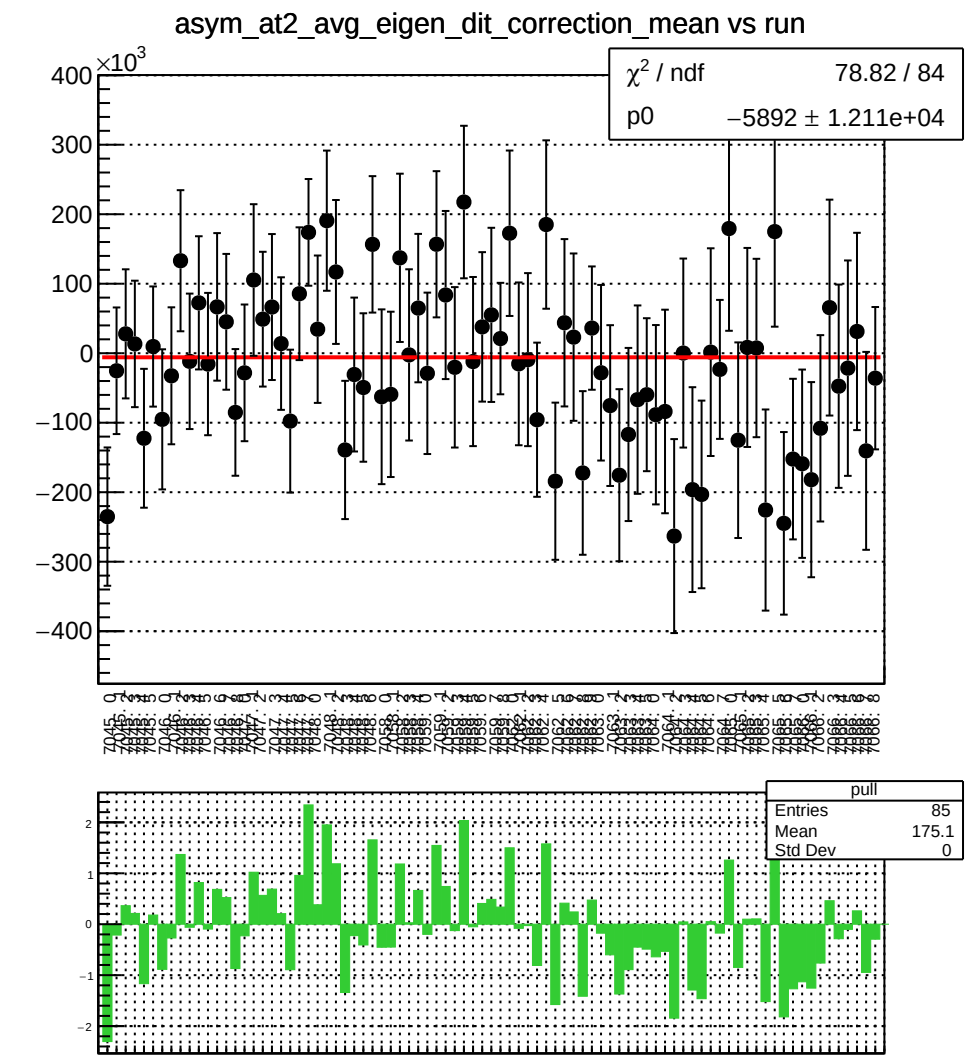

pull1D
Entries 85
Mean −0.04635
Std Dev 0.9618

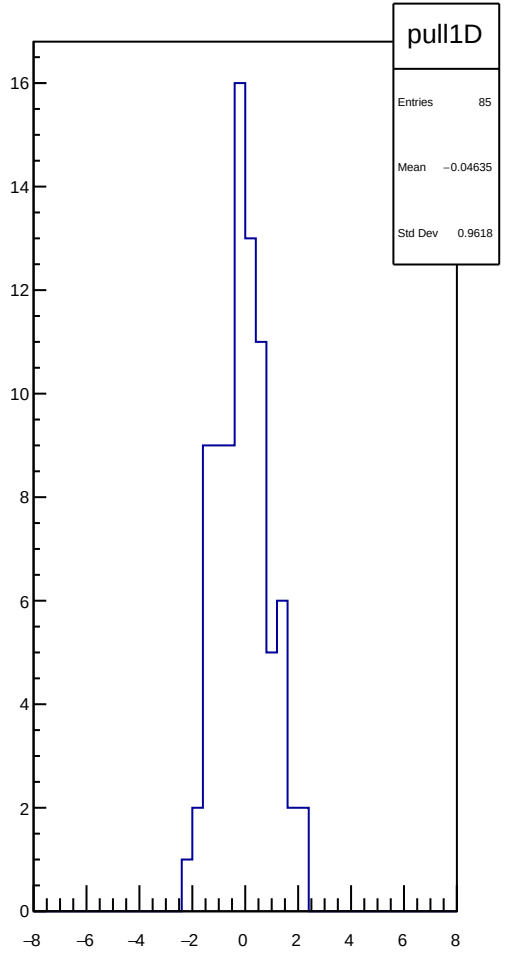

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3.346e+04 / 84
p0 1.088e+04 ± 8.564
15000
14000
13000
12000
11000
10000
9000
8000

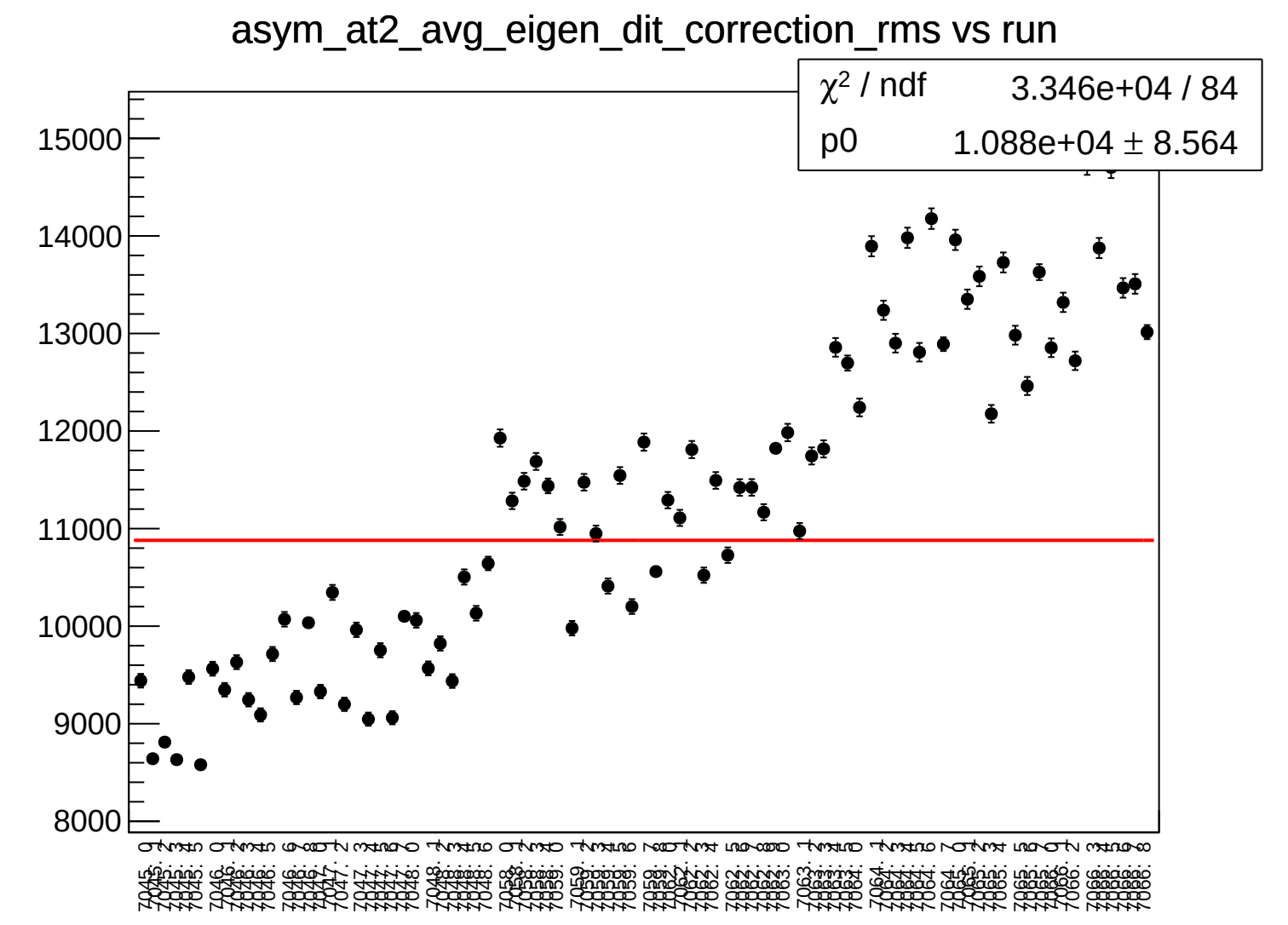

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 68.49 / 84
p0 3112 ± 2111
pull
Entries 85
Mean −225.3
Std Dev 0

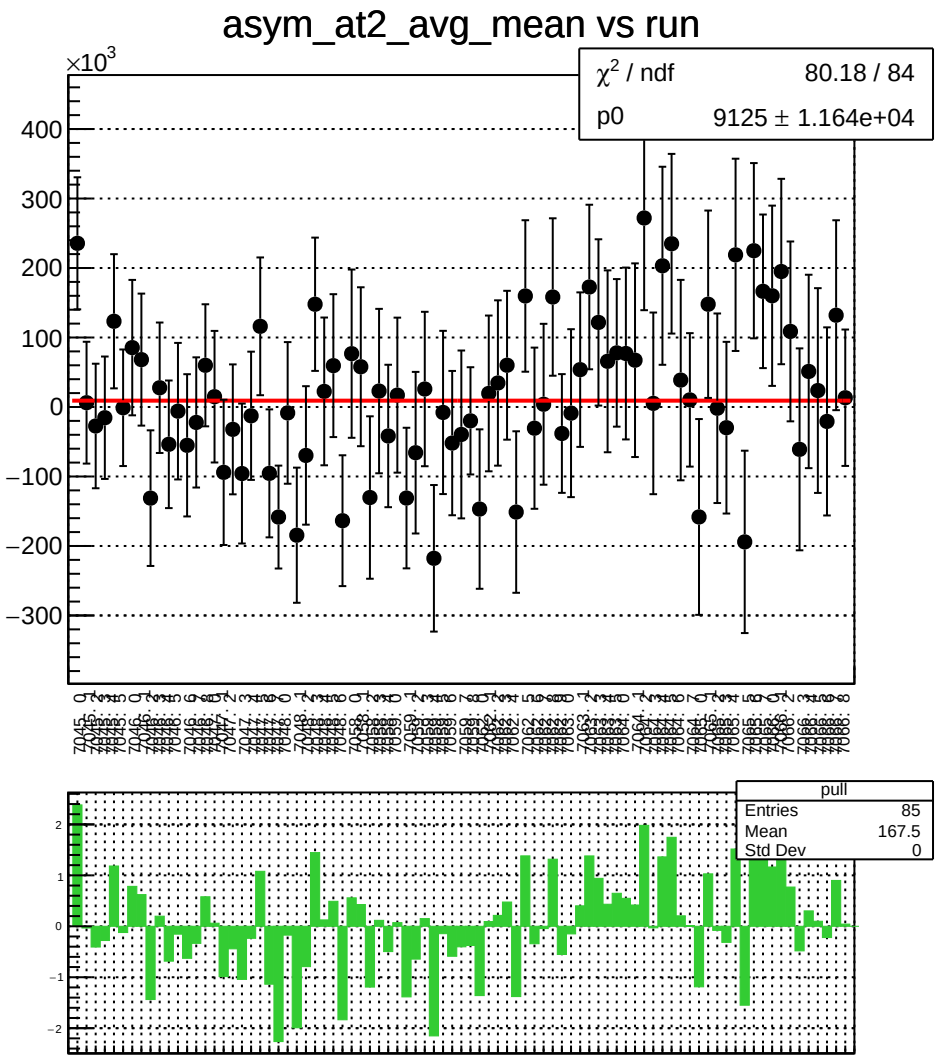

pull1D
Entries 85
Mean 0.006746
Std Dev 0.8976

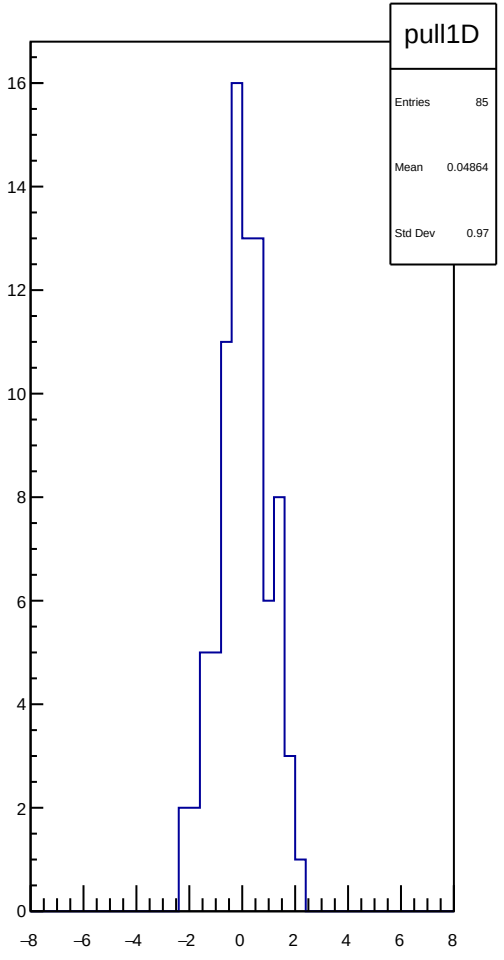

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 1568 / 84
p0 1915 ± 1.493
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

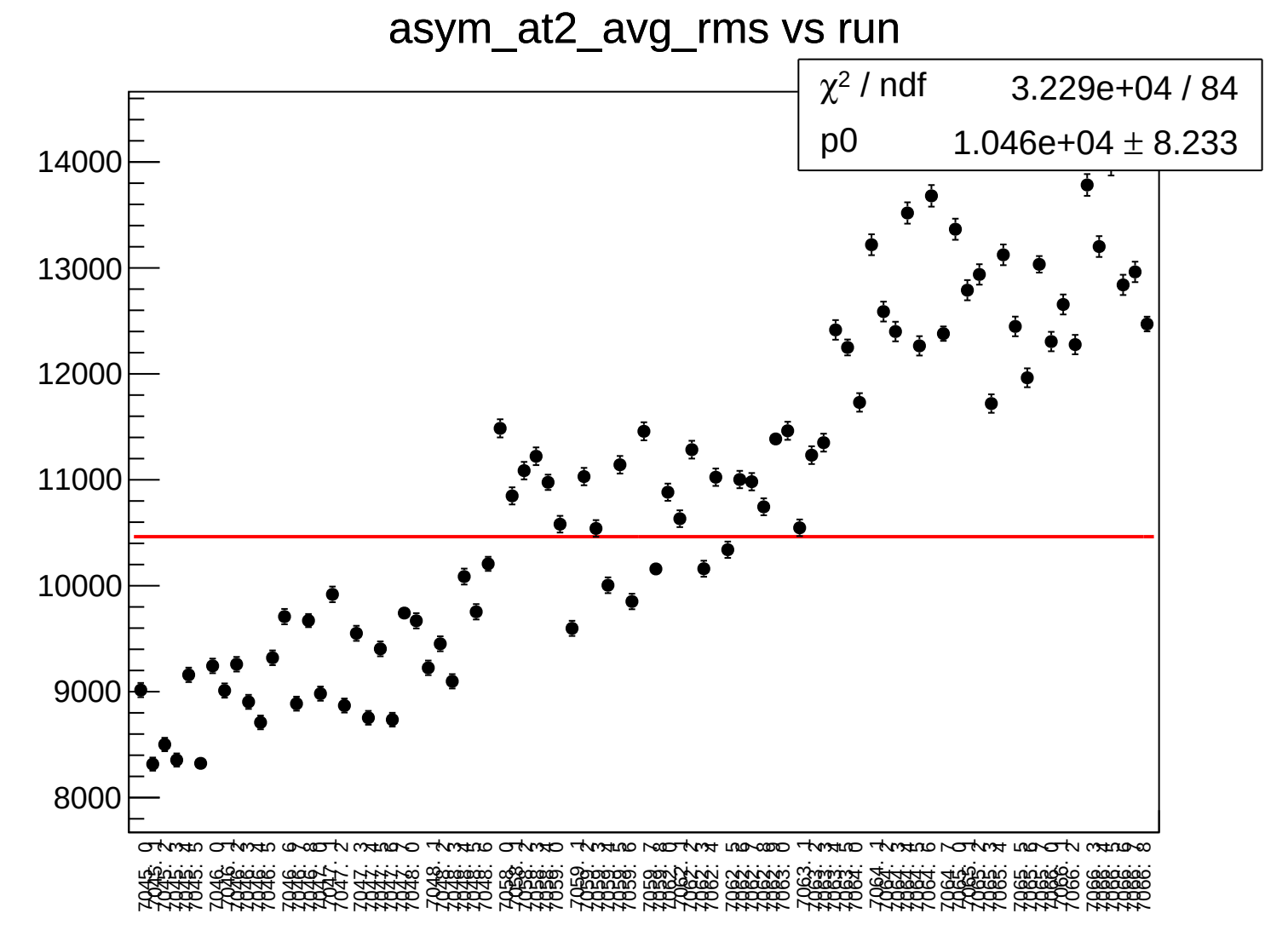

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.82 / 84
p0 −5892 ± 1.211e+04
×10³
pull
Entries 85
Mean 175.1
Std Dev 0

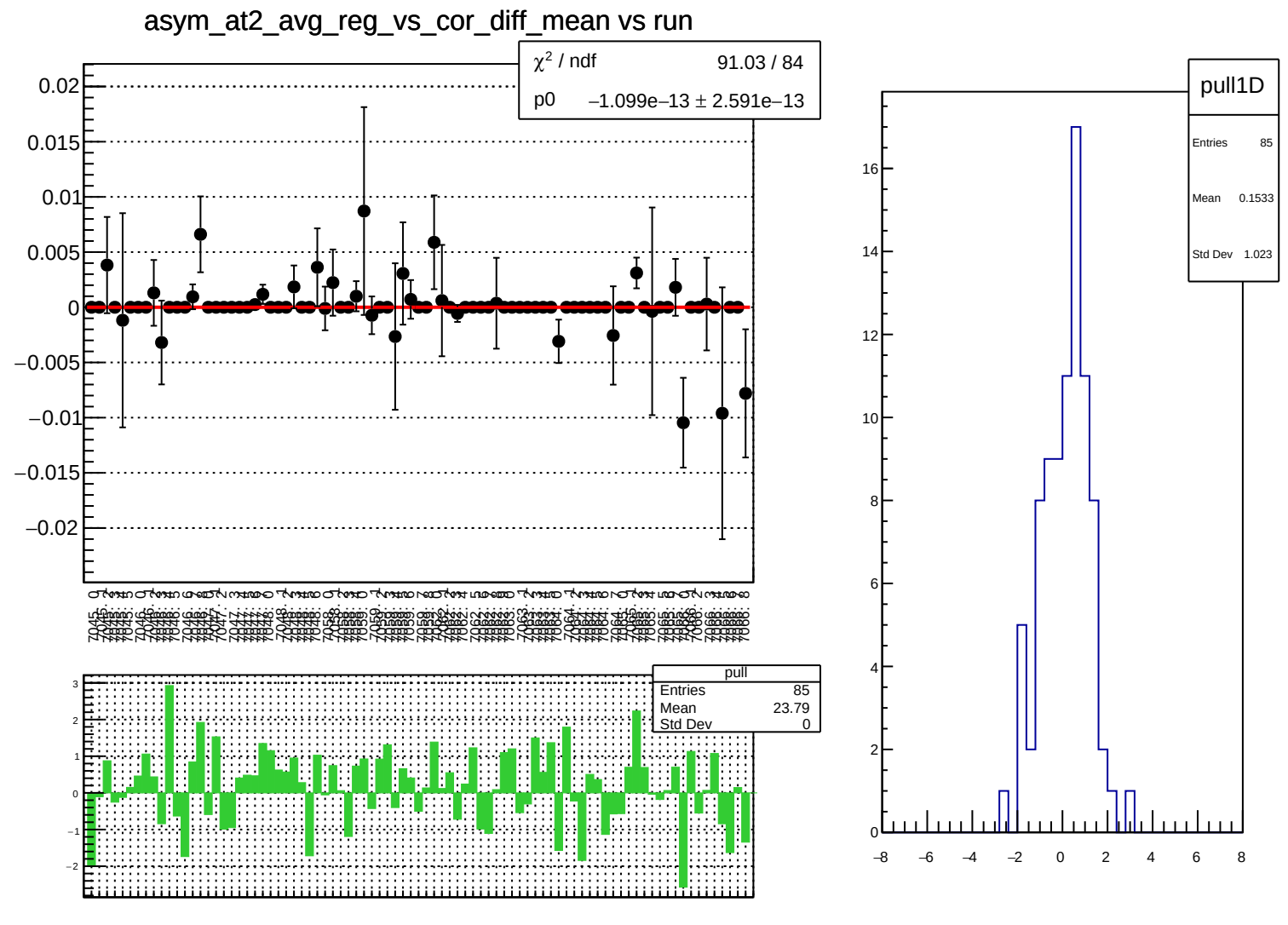

pull1D
Entries 85
Mean −0.04635
Std Dev 0.9618

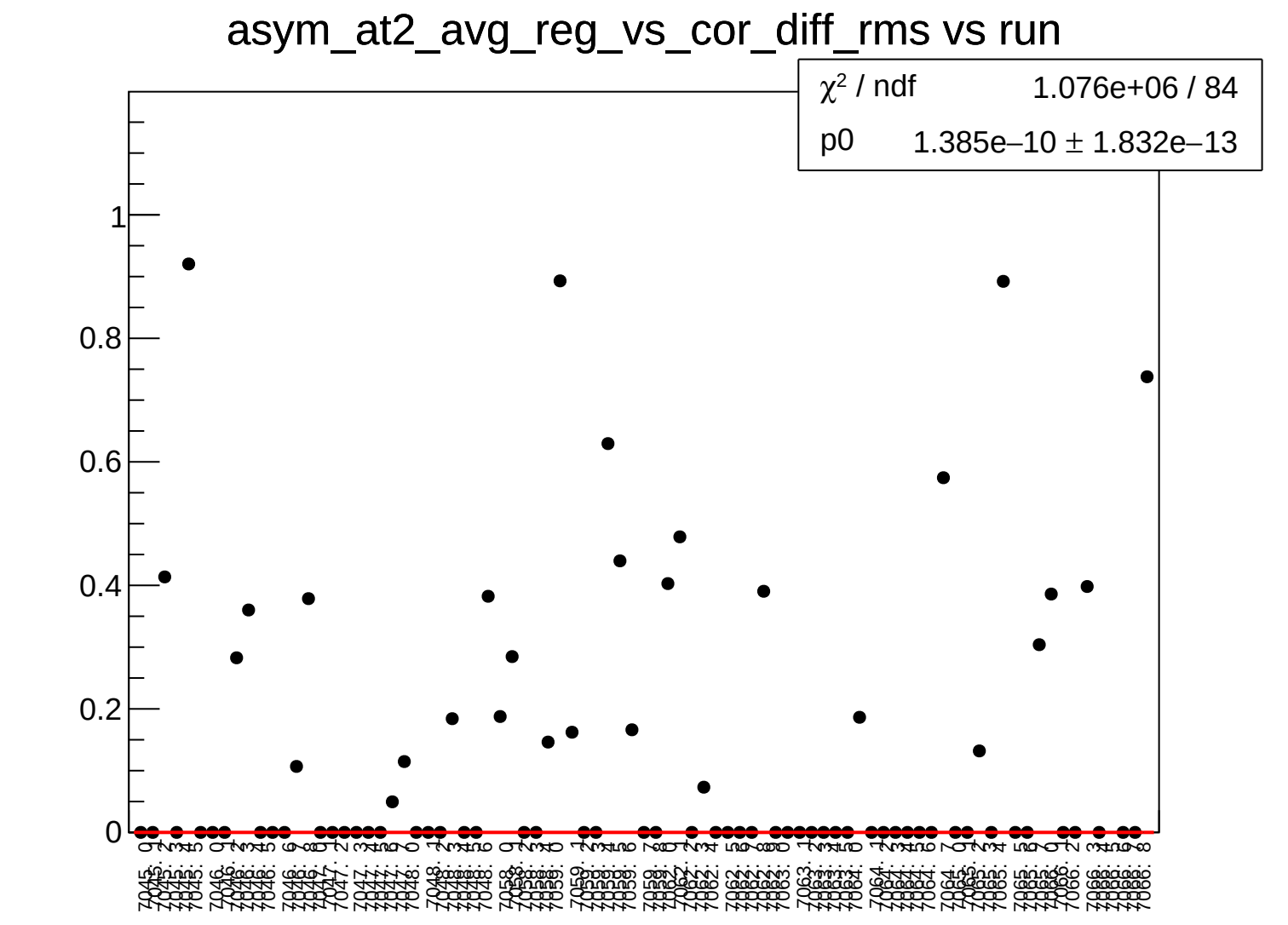

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.346e+04 / 84
p0 1.088e+04 ± 8.564
15000
14000
13000
12000
11000
10000
9000
8000

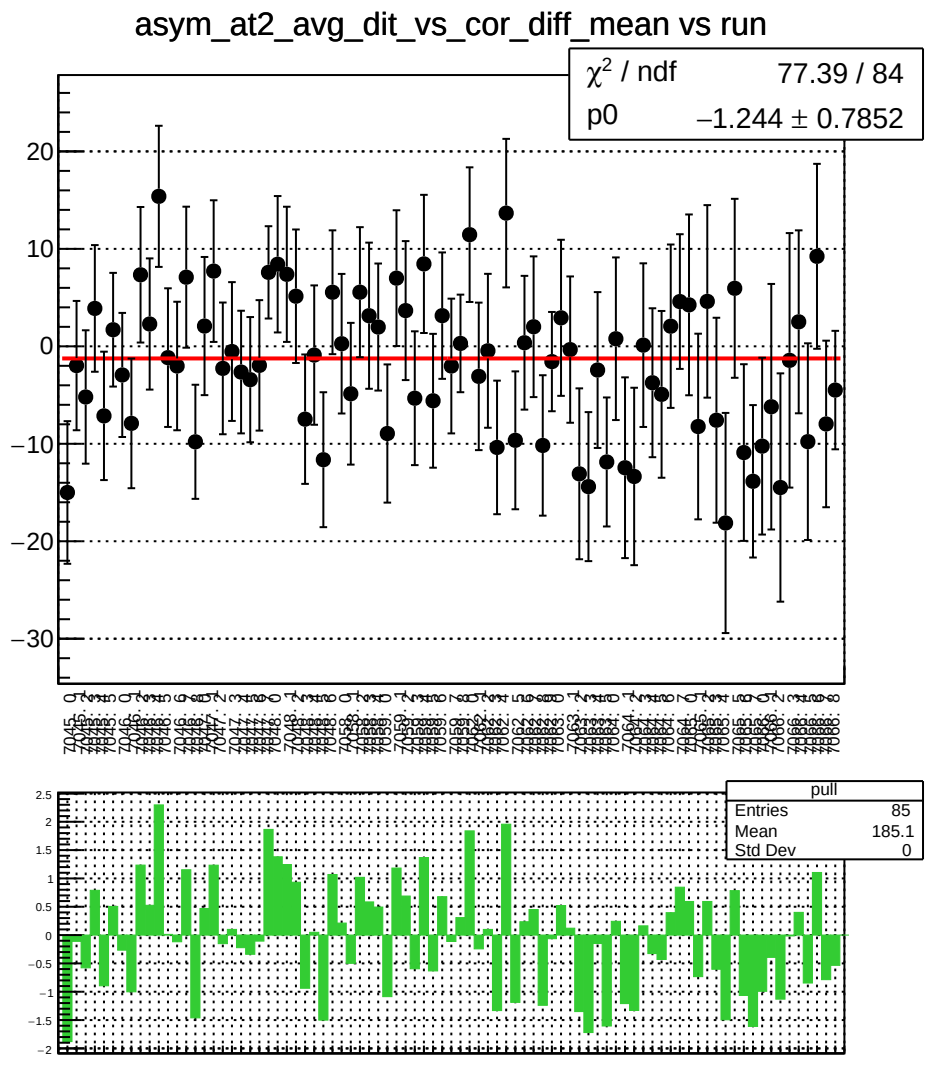

asym_at2_avg_mean vs run
×10^3
χ² / ndf 80.18 / 84
p0 9125 ± 1.164e+04
pull
Entries 85
Mean 167.5
Std Dev 0

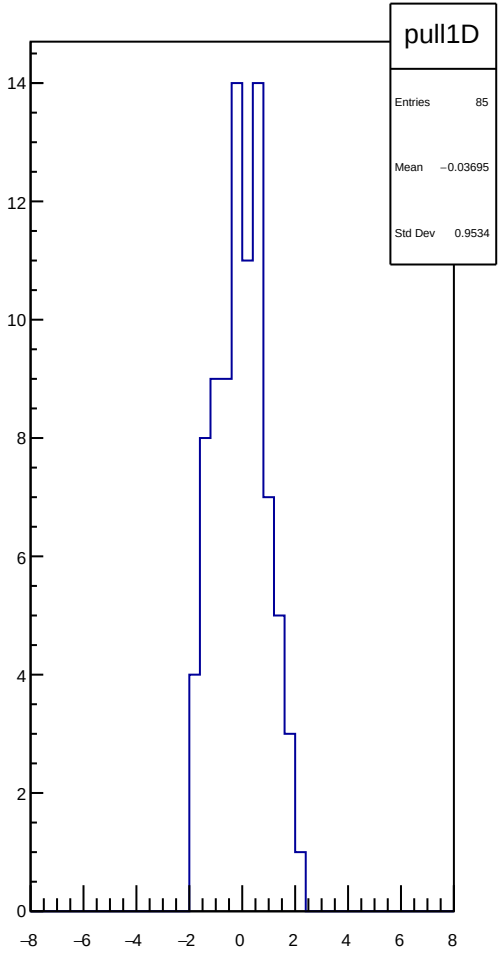

pull1D
Entries 85
Mean 0.04864
Std Dev 0.97

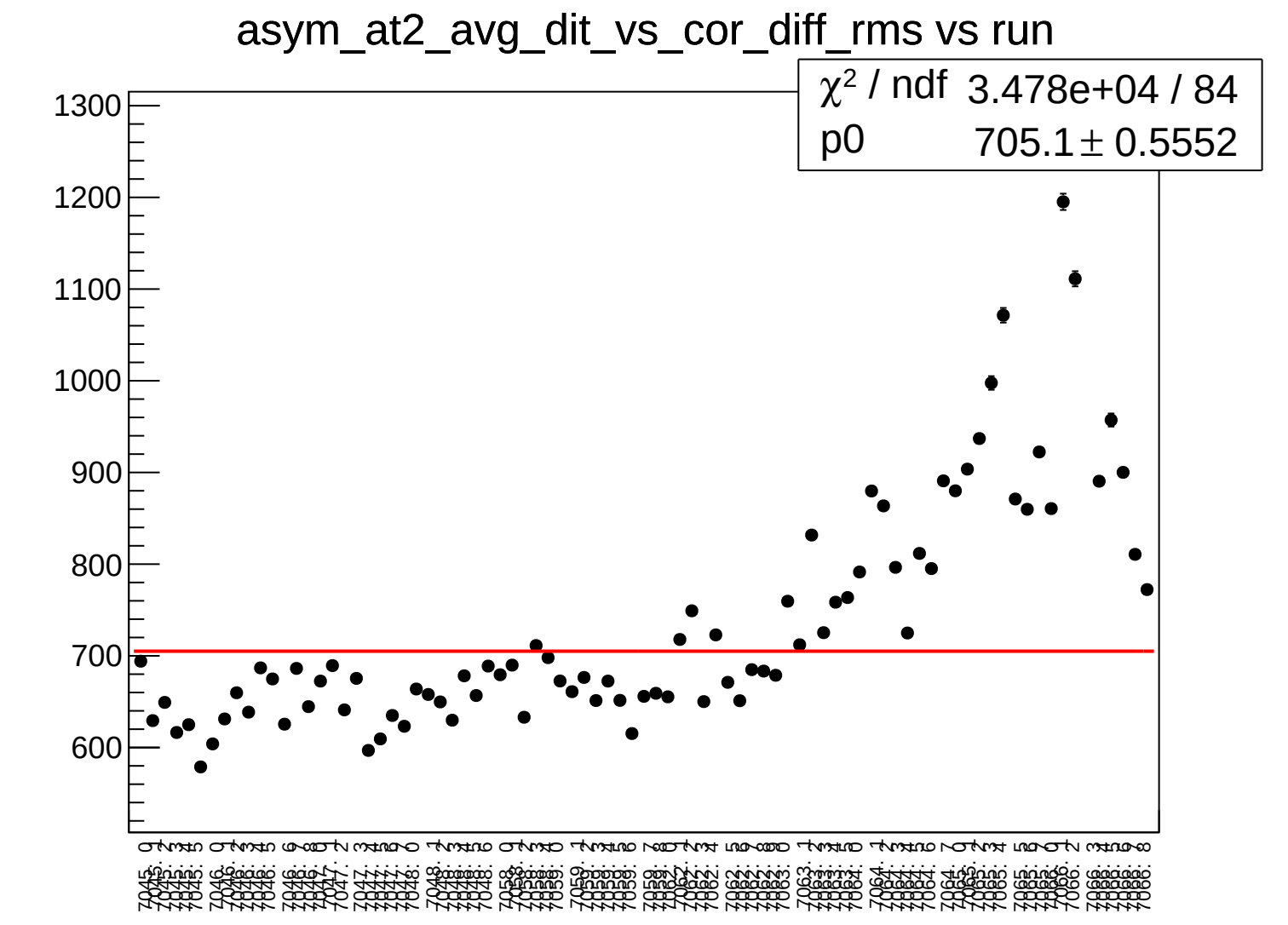

asym_at2_avg_rms vs run
χ² / ndf 3.229e+04 / 84
p0 1.046e+04 ± 8.233
14000
13000
12000
11000
10000
9000
8000

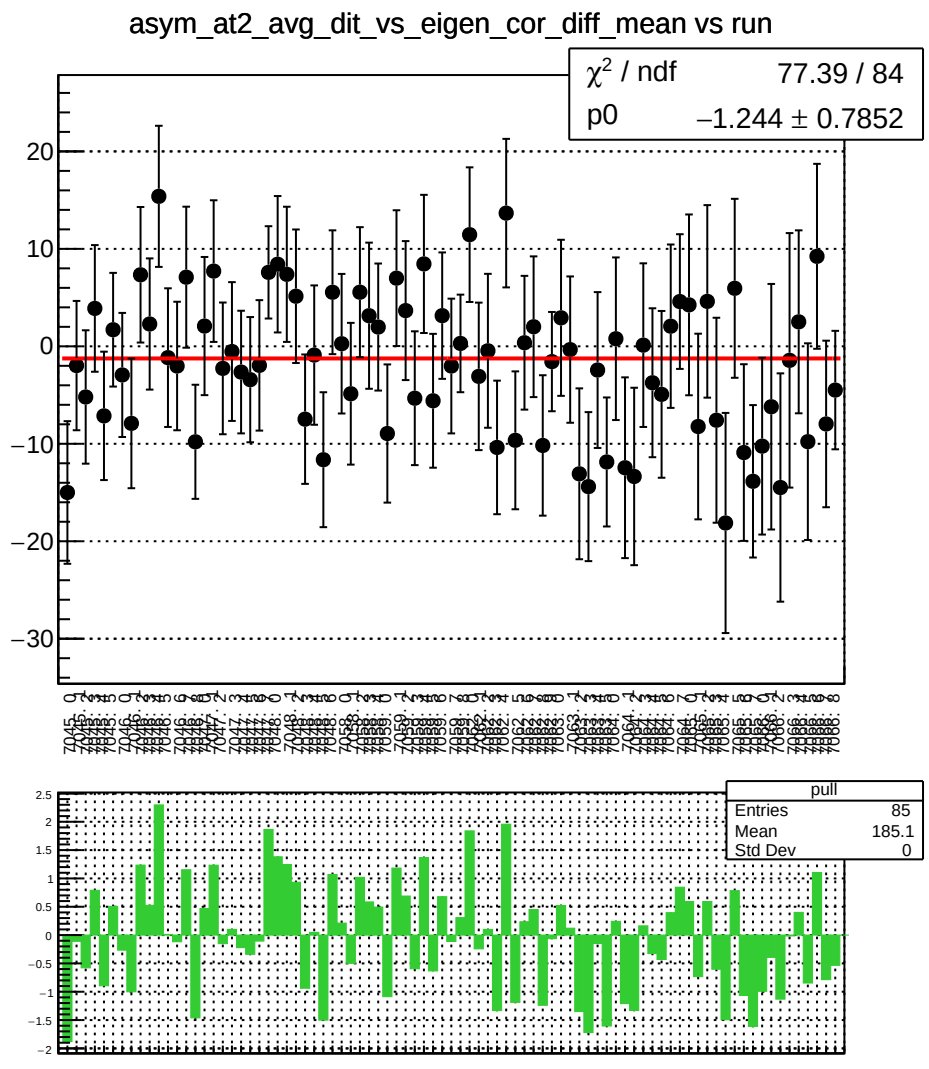

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.03 / 84
p0 −1.099e−13 ± 2.591e−13
pull
Entries 85
Mean 23.79
Std Dev 0
pull1D
Entries 85
Mean 0.1533
Std Dev 1.023

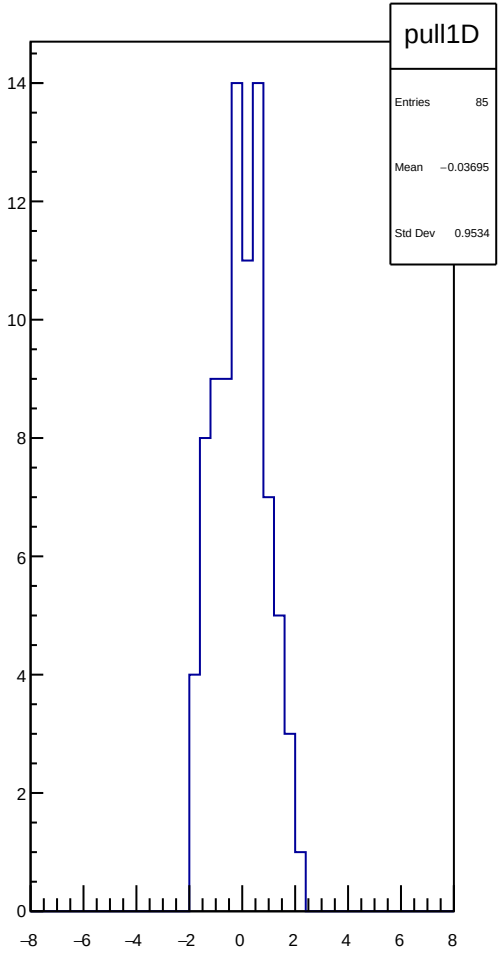

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 84
p0 1.385e−10 ± 1.832e−13
1
0.8
0.6
0.4
0.2
0

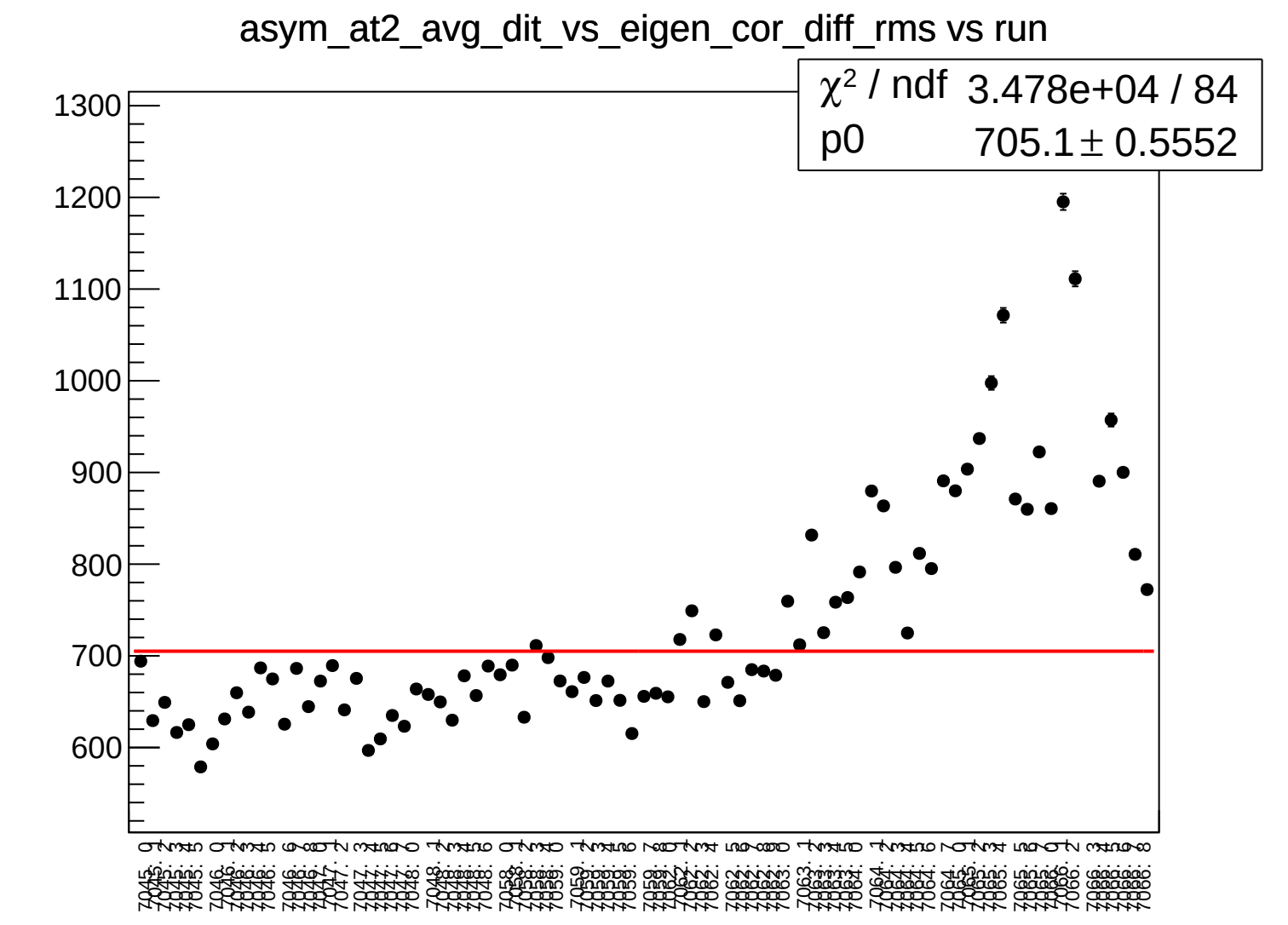

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.39 / 84
p0 −1.244 ± 0.7852
pull
Entries 85
Mean 185.1
Std Dev 0

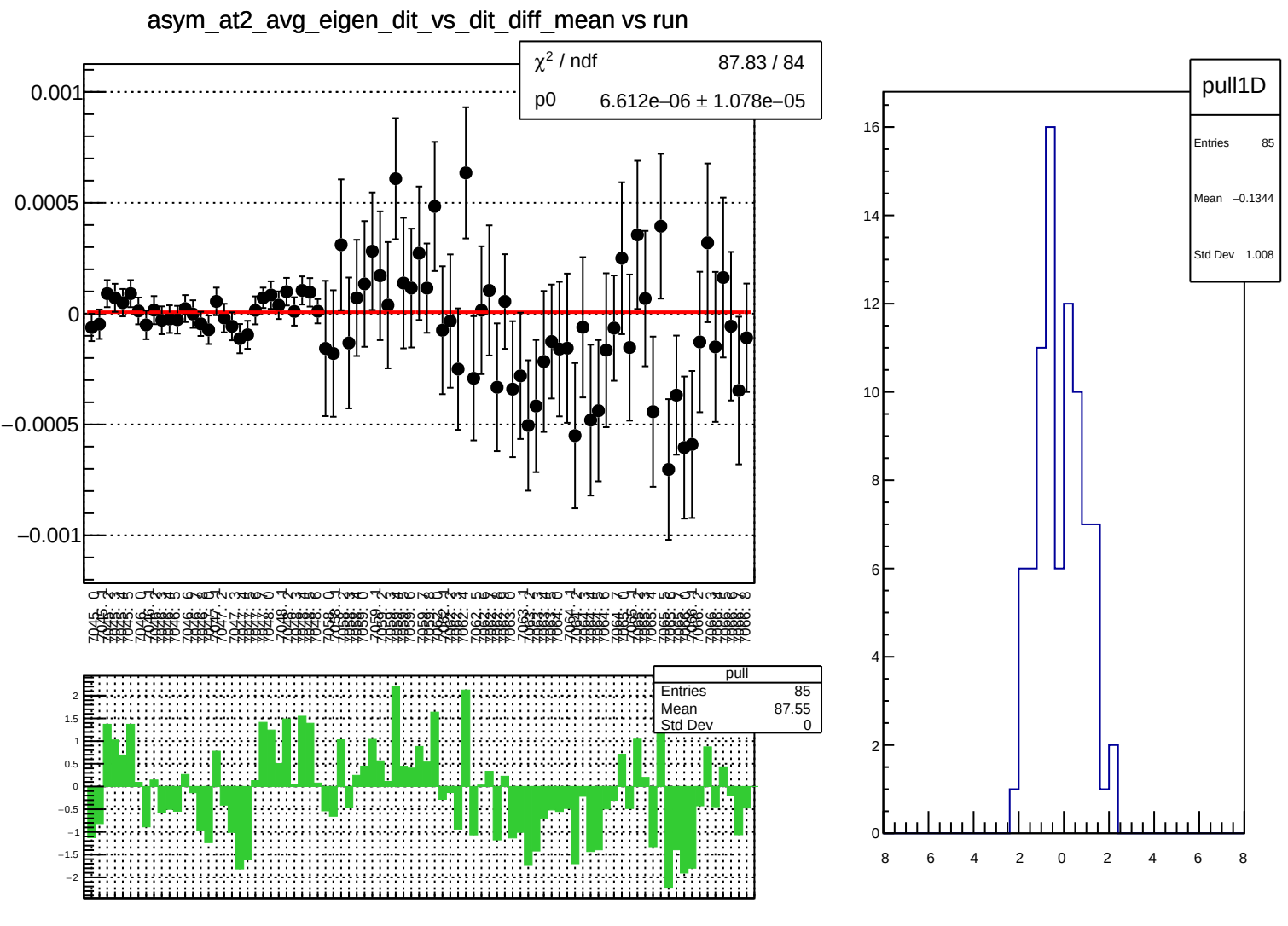

pull1D
Entries 85
Mean −0.03695
Std Dev 0.9534

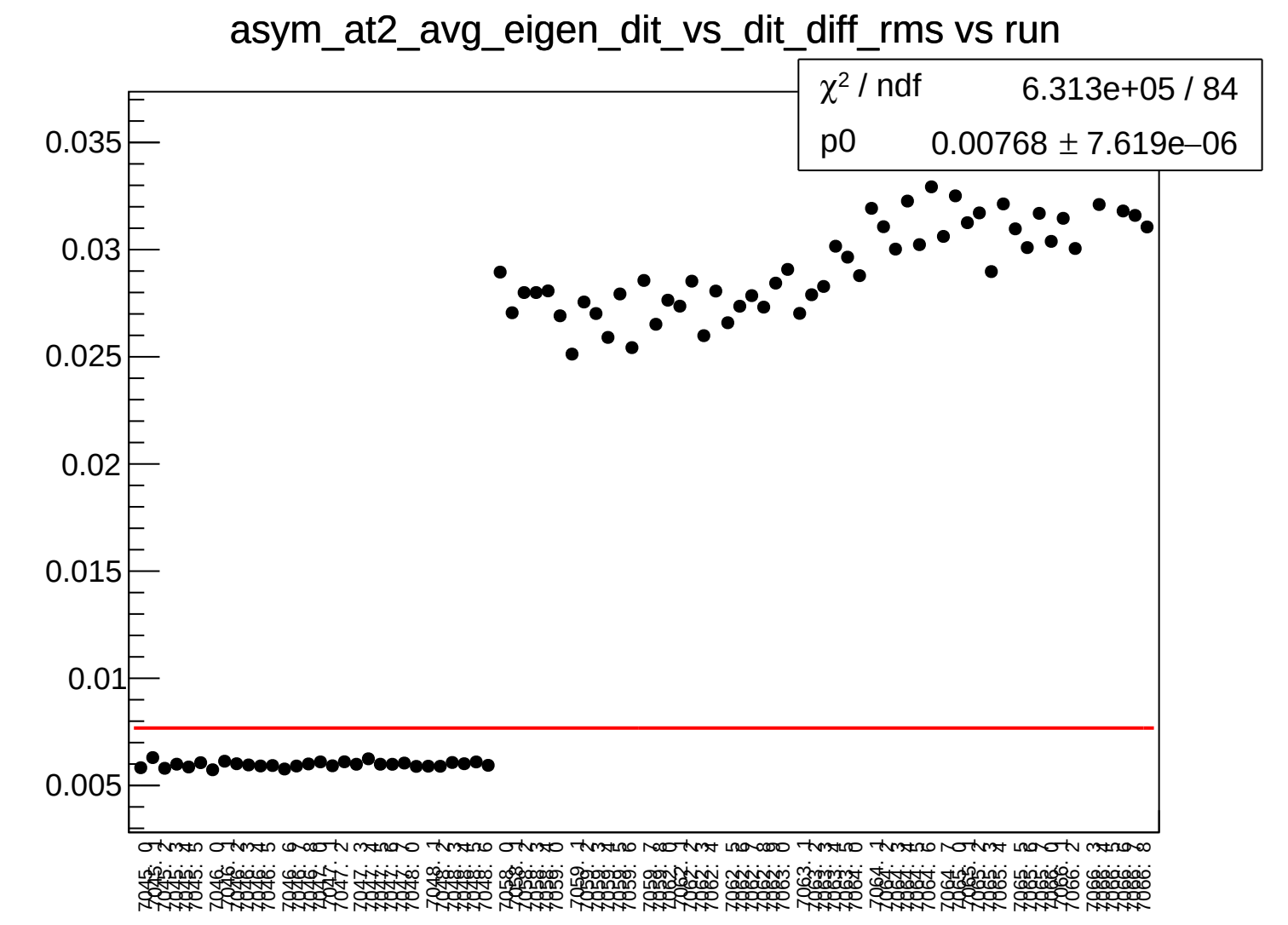

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.478e+04 / 84
p0 705.1 ± 0.5552
1300
1200
1100
1000
900
800
700
600

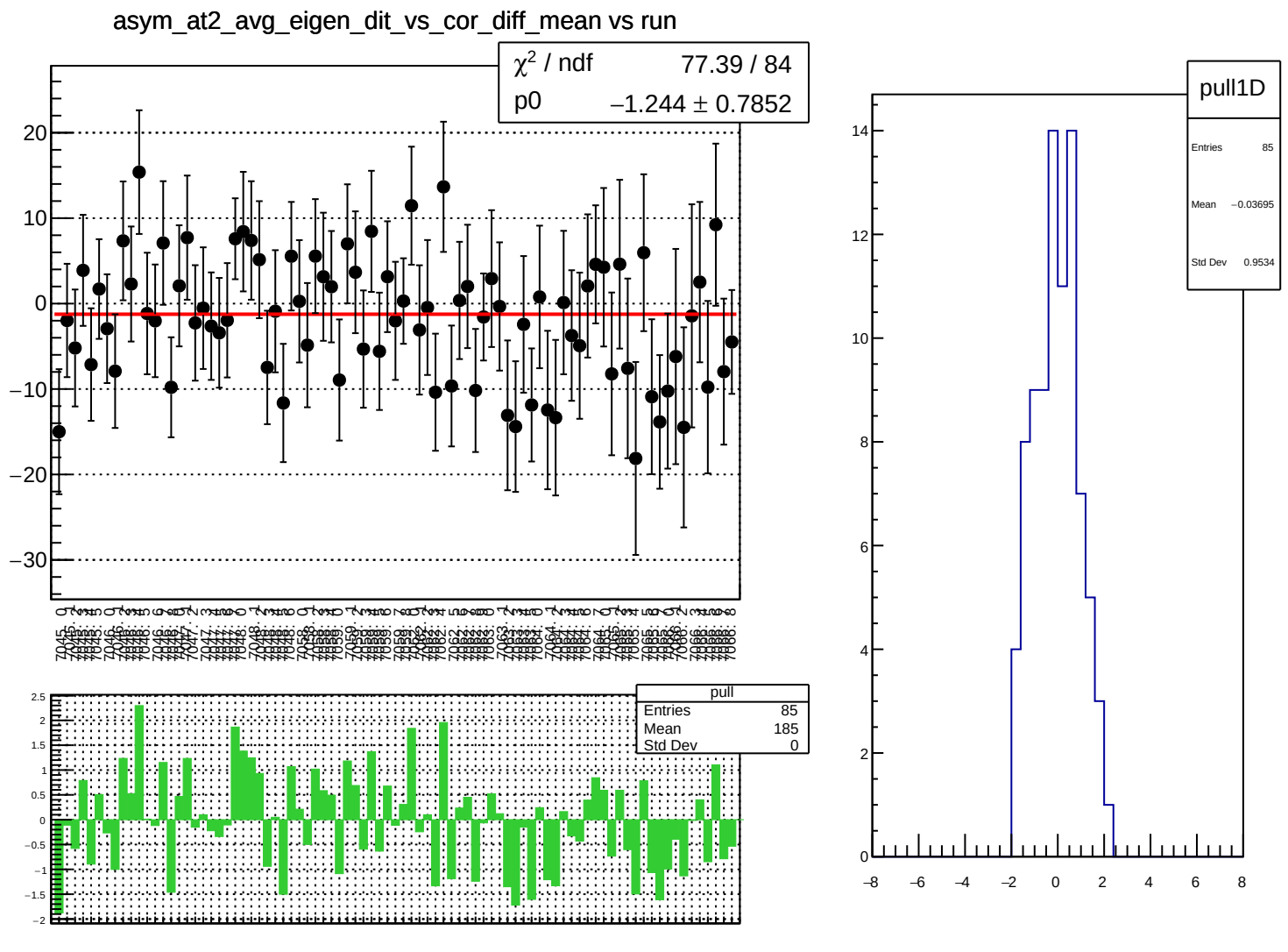

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.39 / 84
p0 −1.244 ± 0.7852
pull
Entries 85
Mean 185.1
Std Dev 0

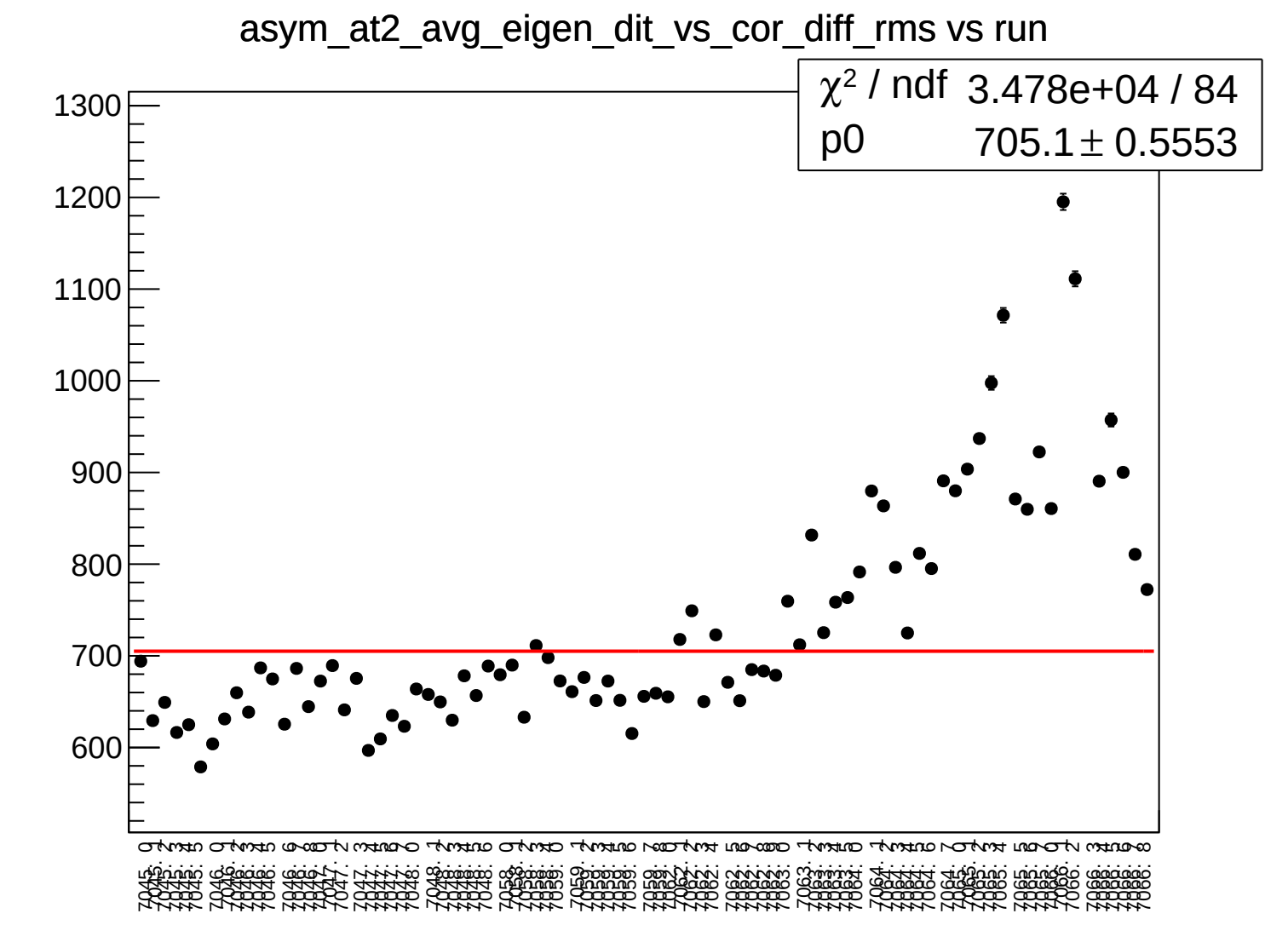

pull1D
Entries 85
Mean −0.03695
Std Dev 0.9534

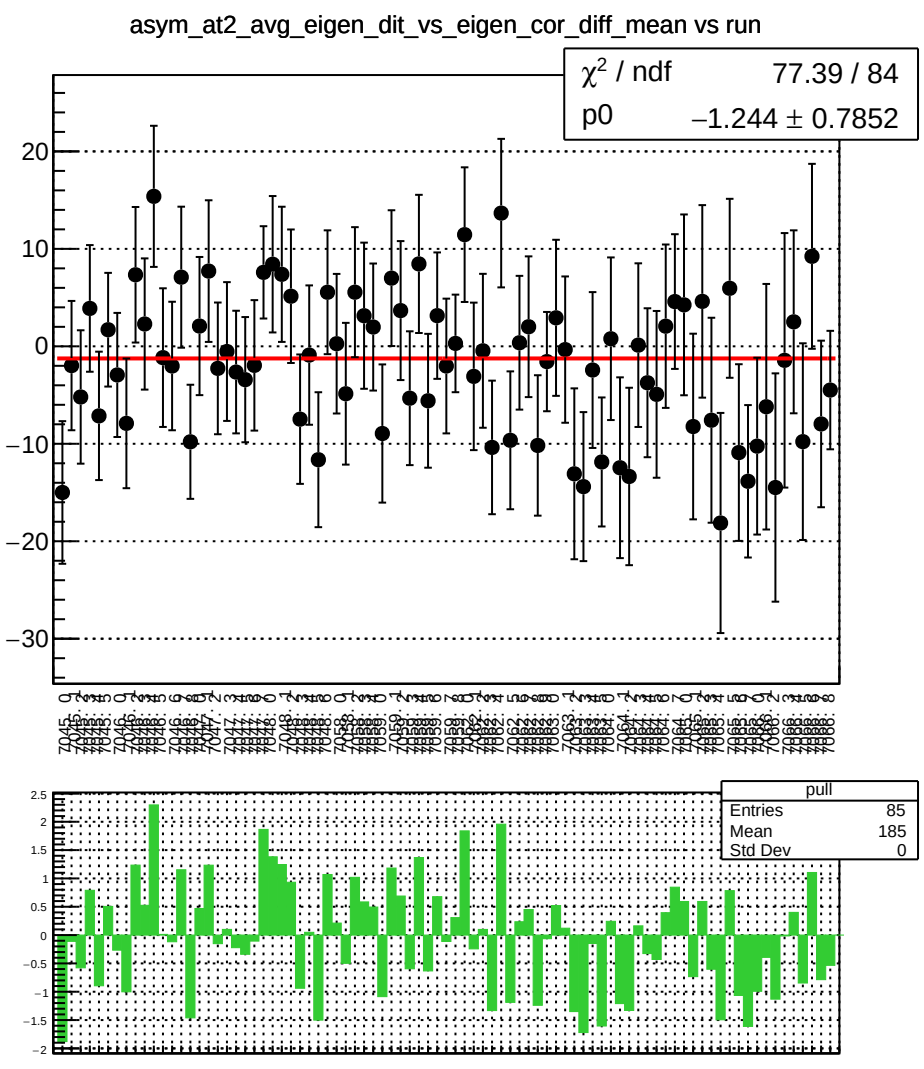

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.478e+04 / 84
p0 705.1 ± 0.5552
1300
1200
1100
1000
900
800
700
600

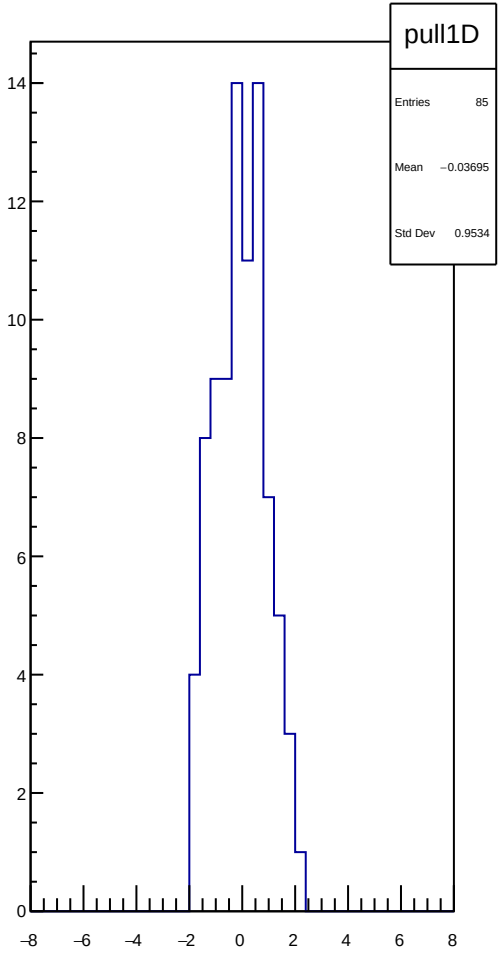

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.83 / 84
p0 6.612e−06 ± 1.078e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 87.55
Std Dev 0
pull1D
Entries 85
Mean −0.1344
Std Dev 1.008

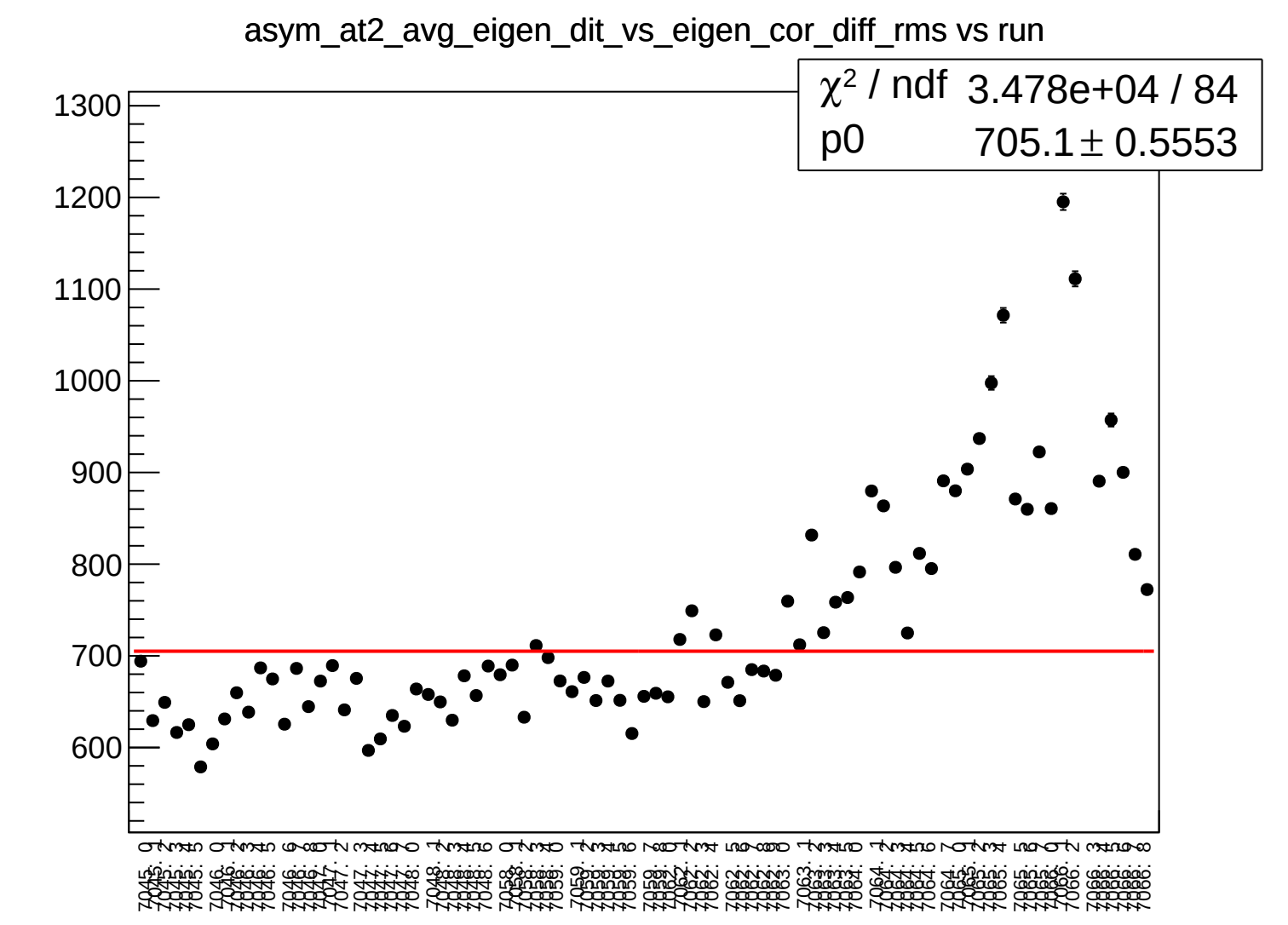

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.313e+05 / 84
p0 0.00768 ± 7.619e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

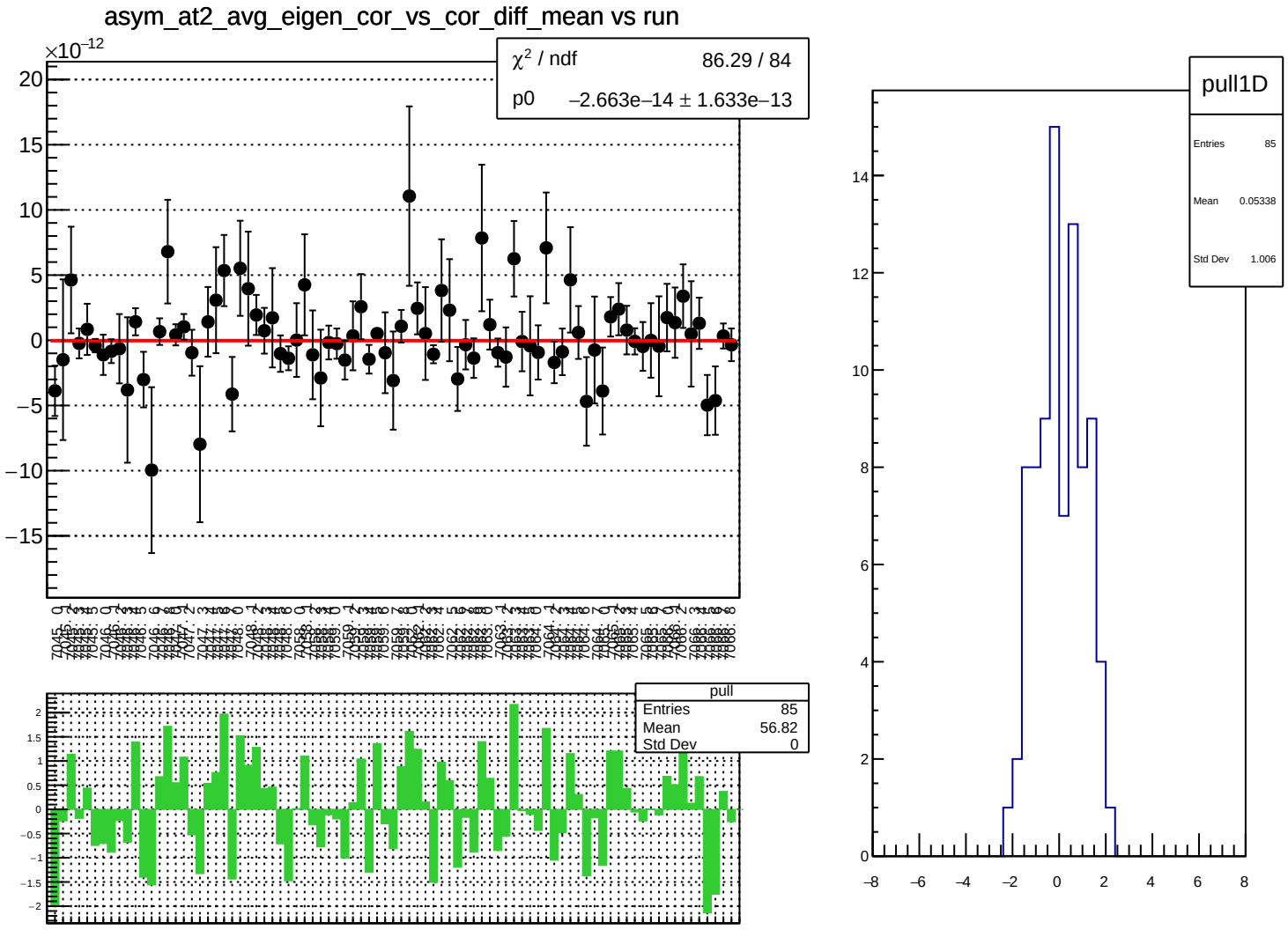

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.39 / 84
p0 −1.244 ± 0.7852
pull
Entries 85
Mean 185
Std Dev 0
pull1D
Entries 85
Mean −0.03695
Std Dev 0.9534

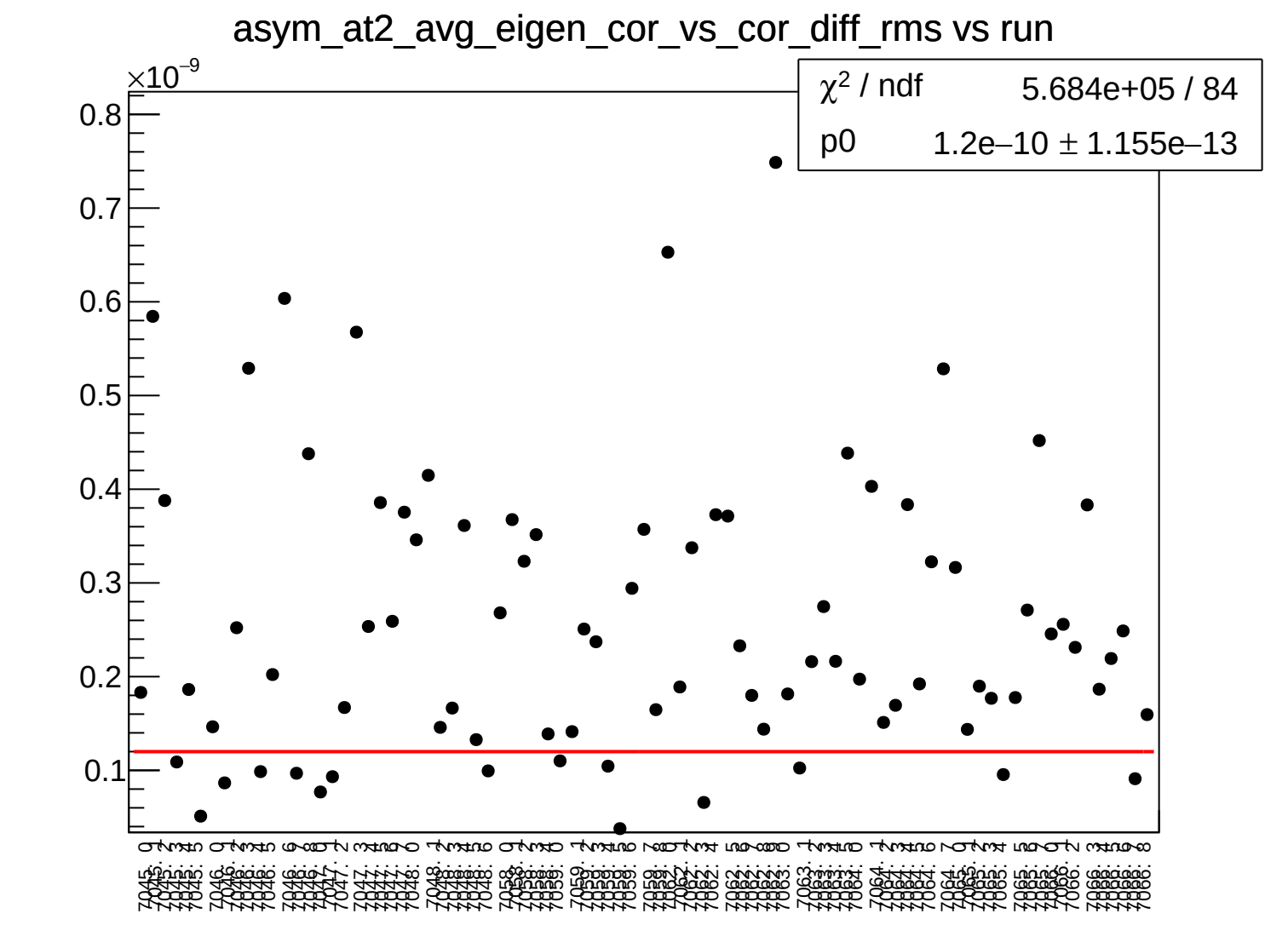

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.478e+04 / 84
p0 705.1 ± 0.5553
1300
1200
1100
1000
900
800
700
600

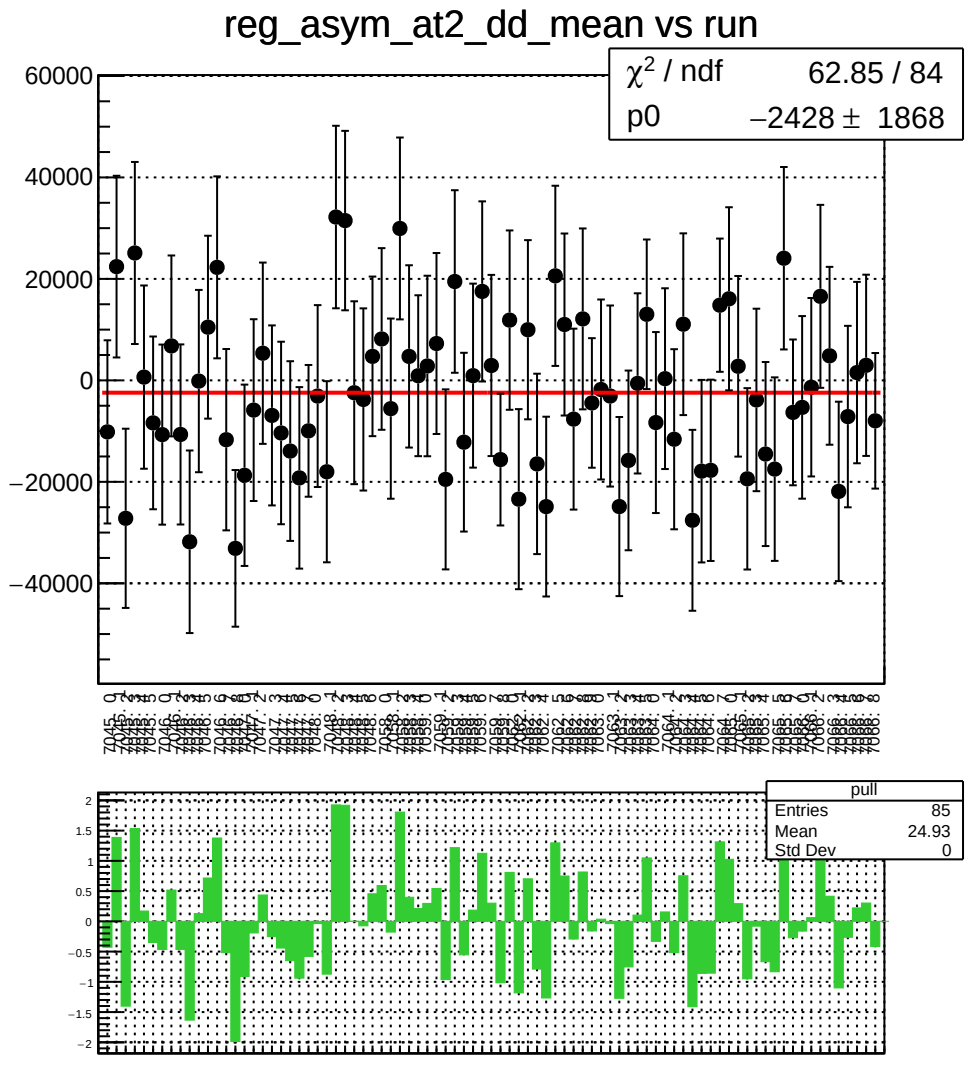

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.39 / 84
p0 −1.244 ± 0.7852
pull
Entries 85
Mean 185
Std Dev 0

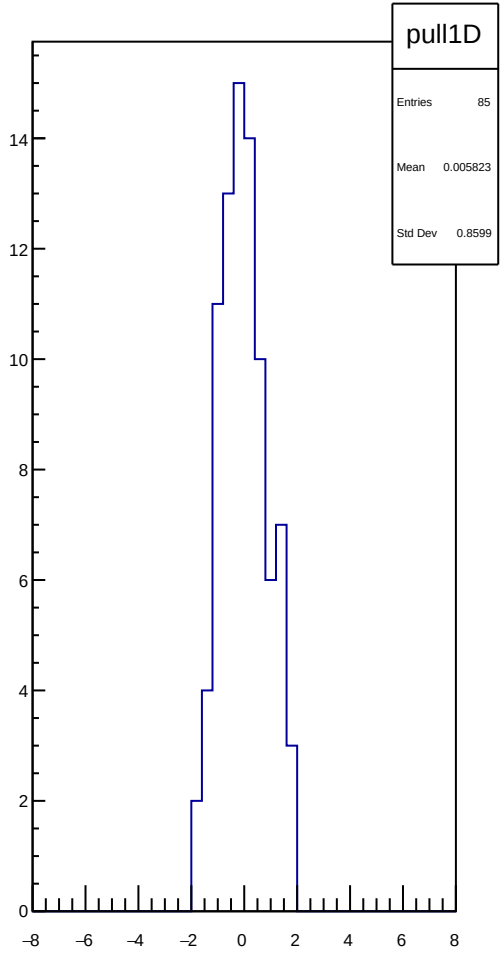

pull1D
Entries 85
Mean −0.03695
Std Dev 0.9534

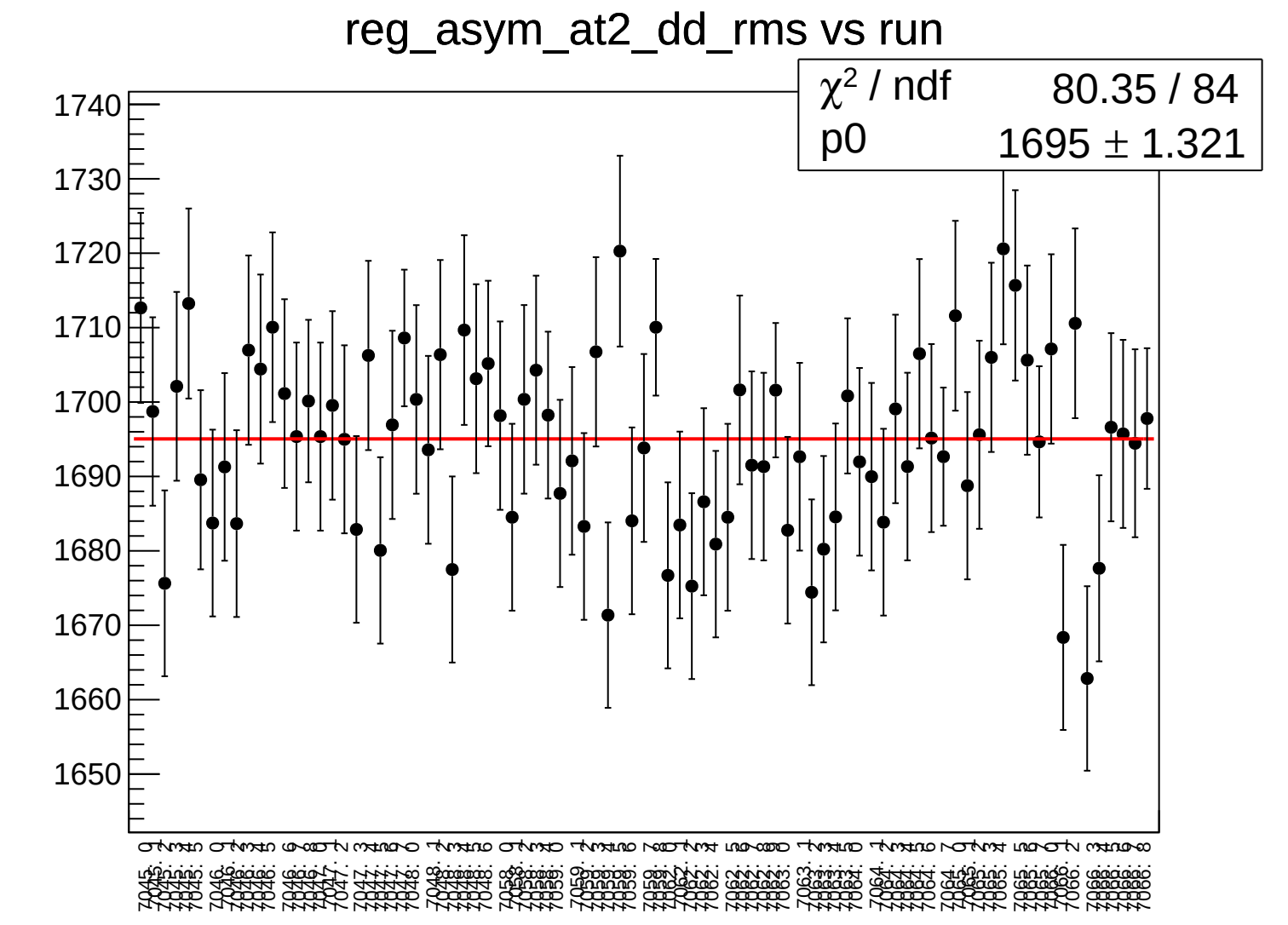

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.478e+04 / 84
p0 705.1 ± 0.5553
1300
1200
1100
1000
900
800
700
600

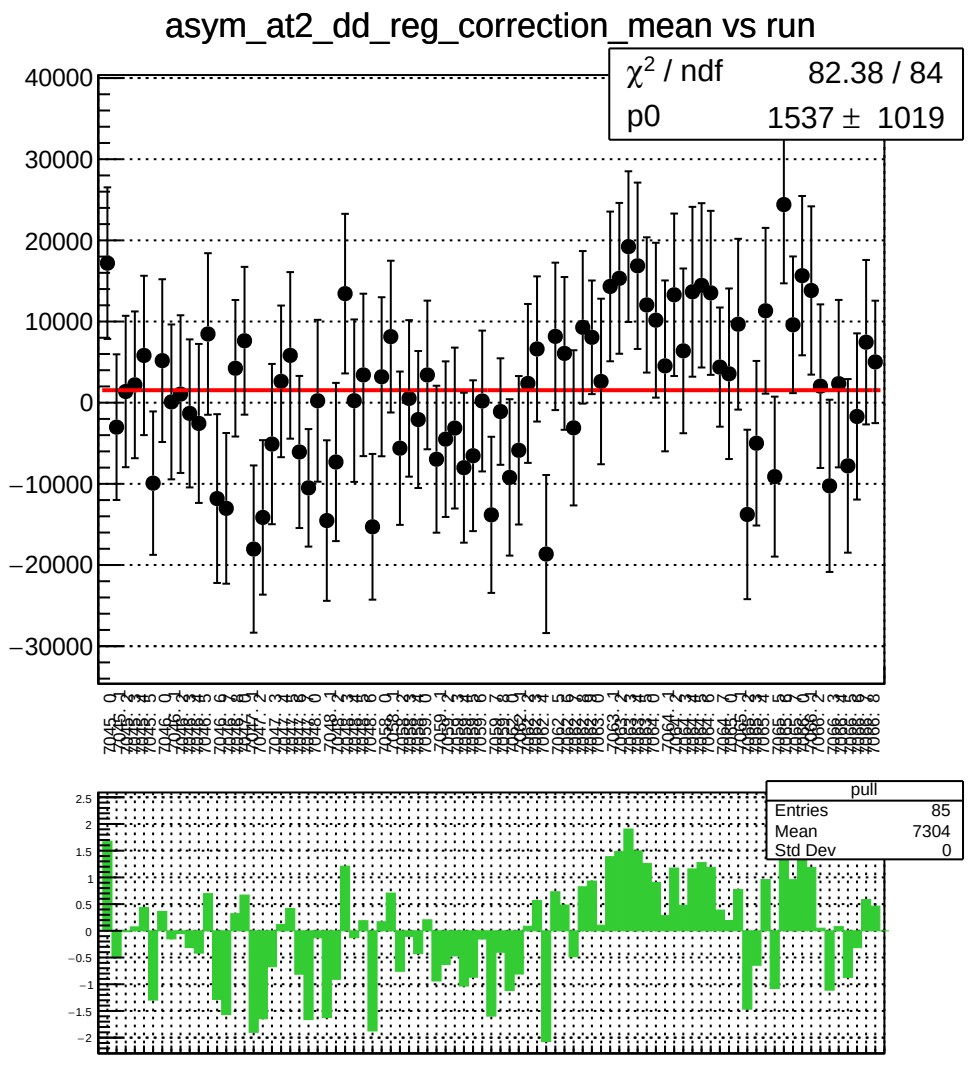

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.29 / 84
p0 −2.663e−14 ± 1.633e−13
pull
Entries 85
Mean 56.82
Std Dev 0
pull1D
Entries 85
Mean 0.05338
Std Dev 1.006

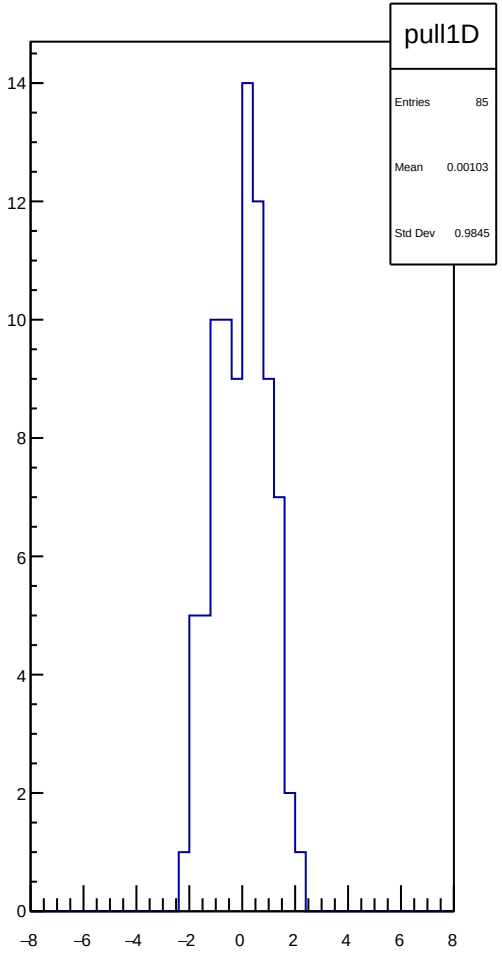

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.684e+05 / 84
p0 1.2e−10 ± 1.155e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

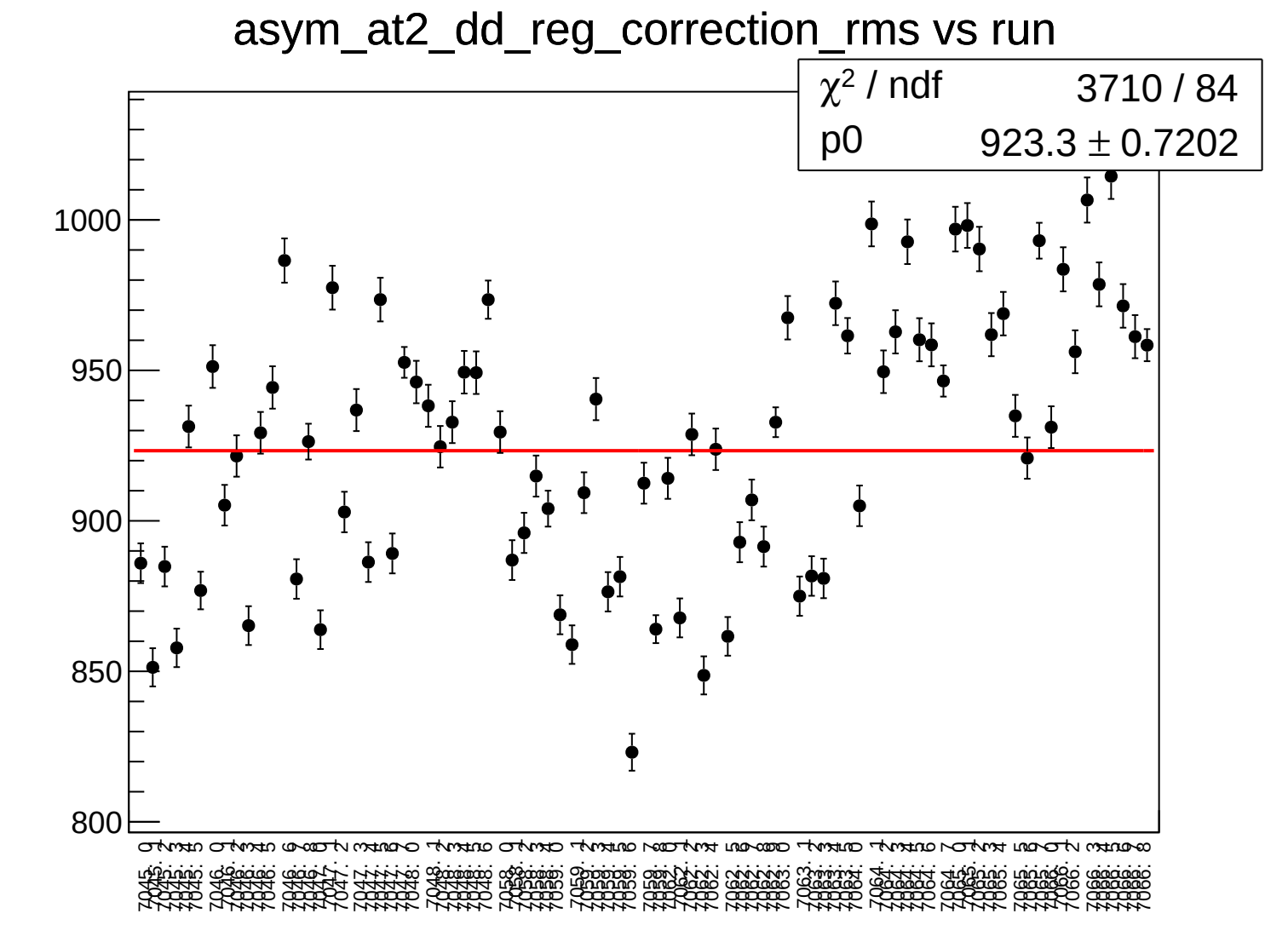

reg_asym_at2_dd_mean vs run
χ^2 / ndf 62.85 / 84
p0 −2428 ± 1868
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 24.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

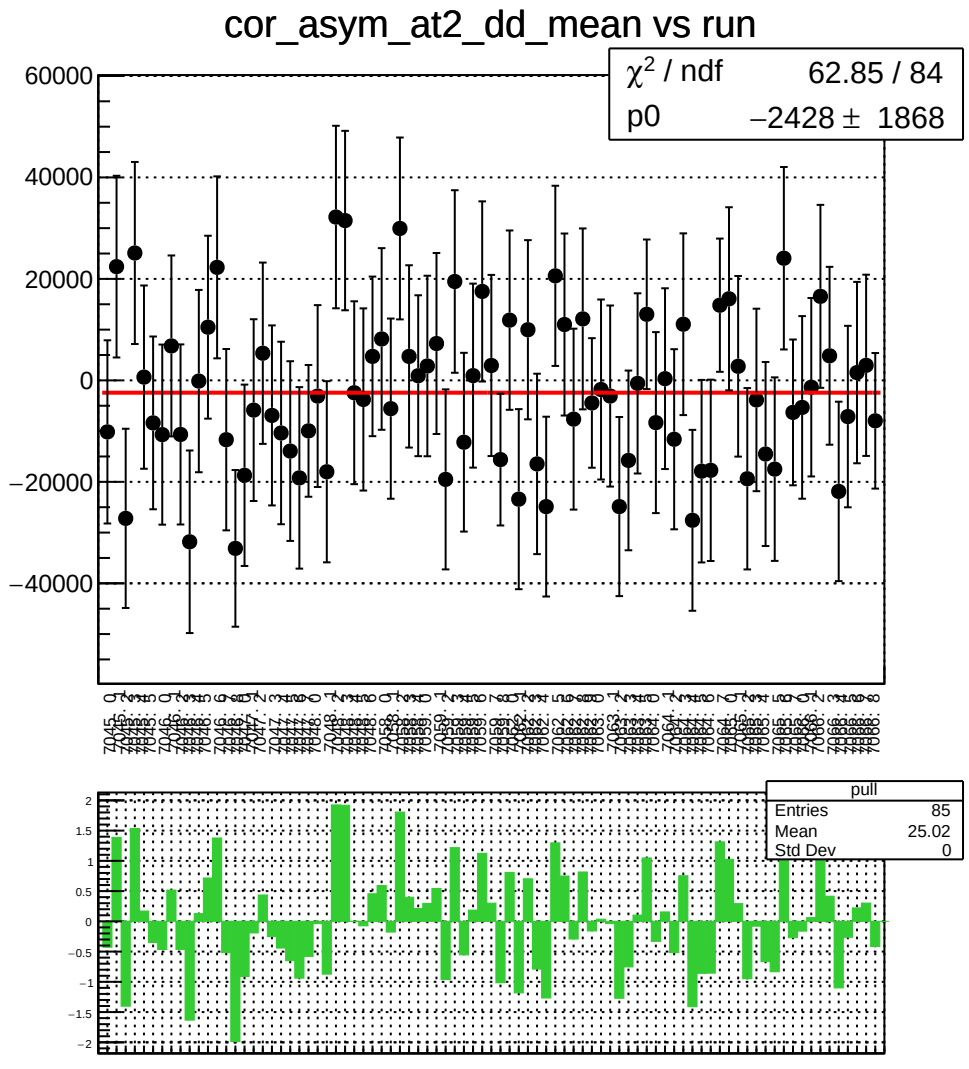

pull1D
Entries 85
Mean 0.005823
Std Dev 0.8599
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

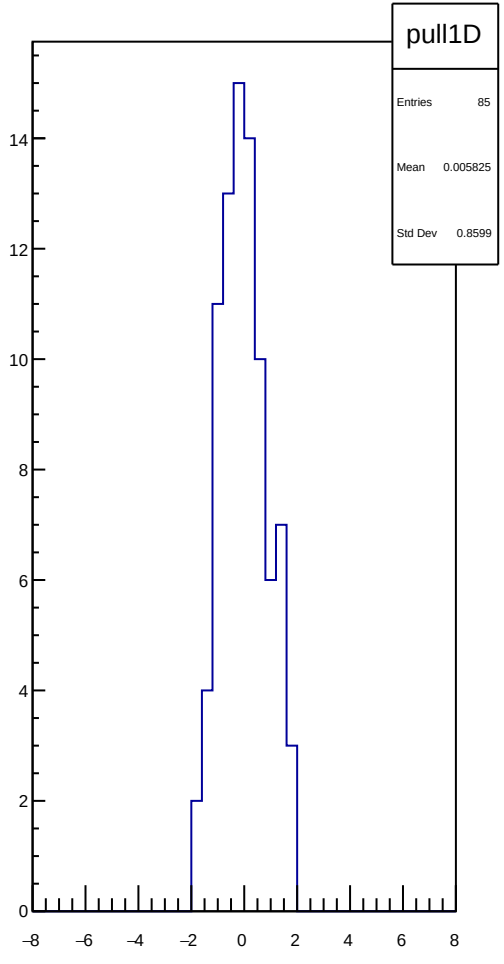

reg_asym_at2_dd_rms vs run
χ^2 / ndf 80.35 / 84
p0 1695 ± 1.321
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650

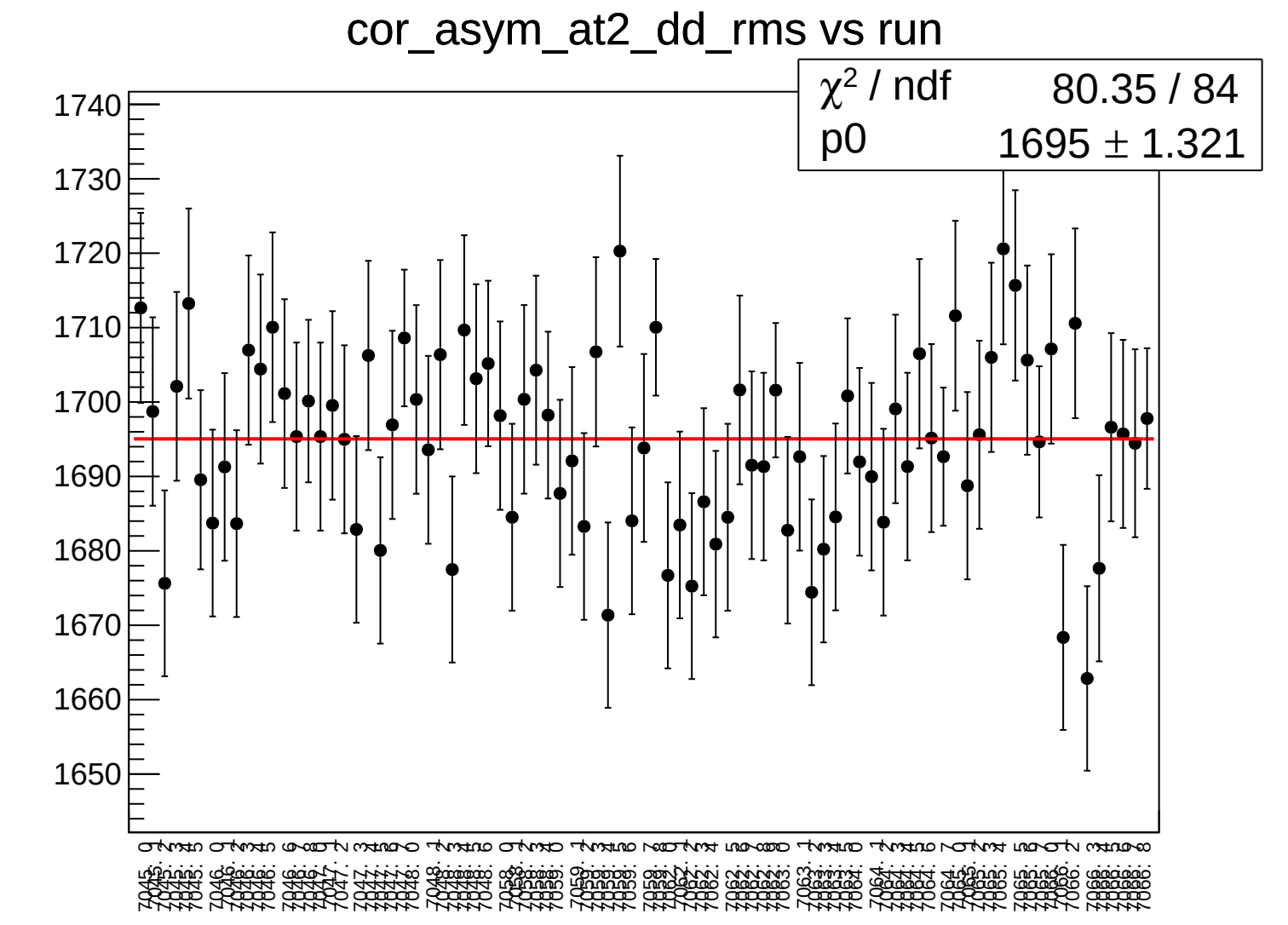

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 82.38 / 84
p0 1537 ± 1019
pull
Entries 85
Mean 7304
Std Dev 0

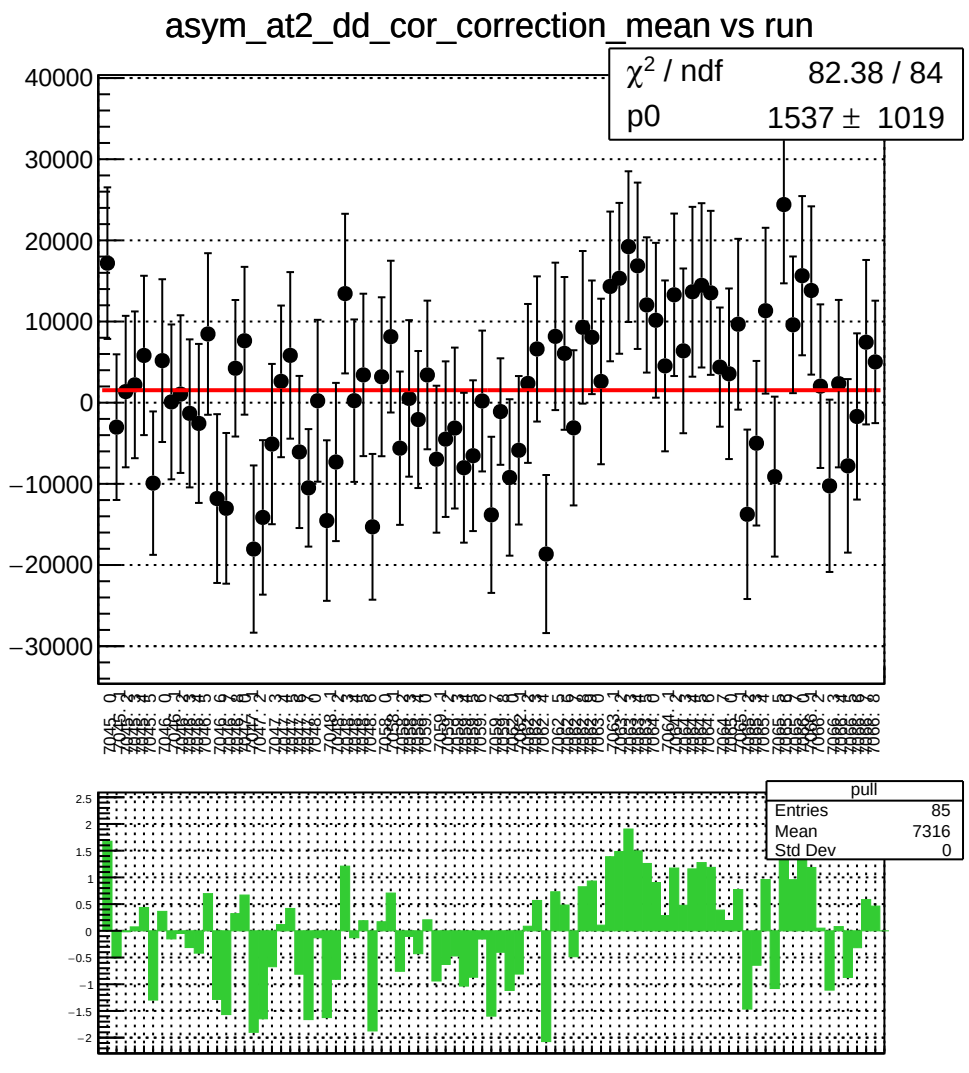

pull1D
Entries 85
Mean 0.00103
Std Dev 0.9845

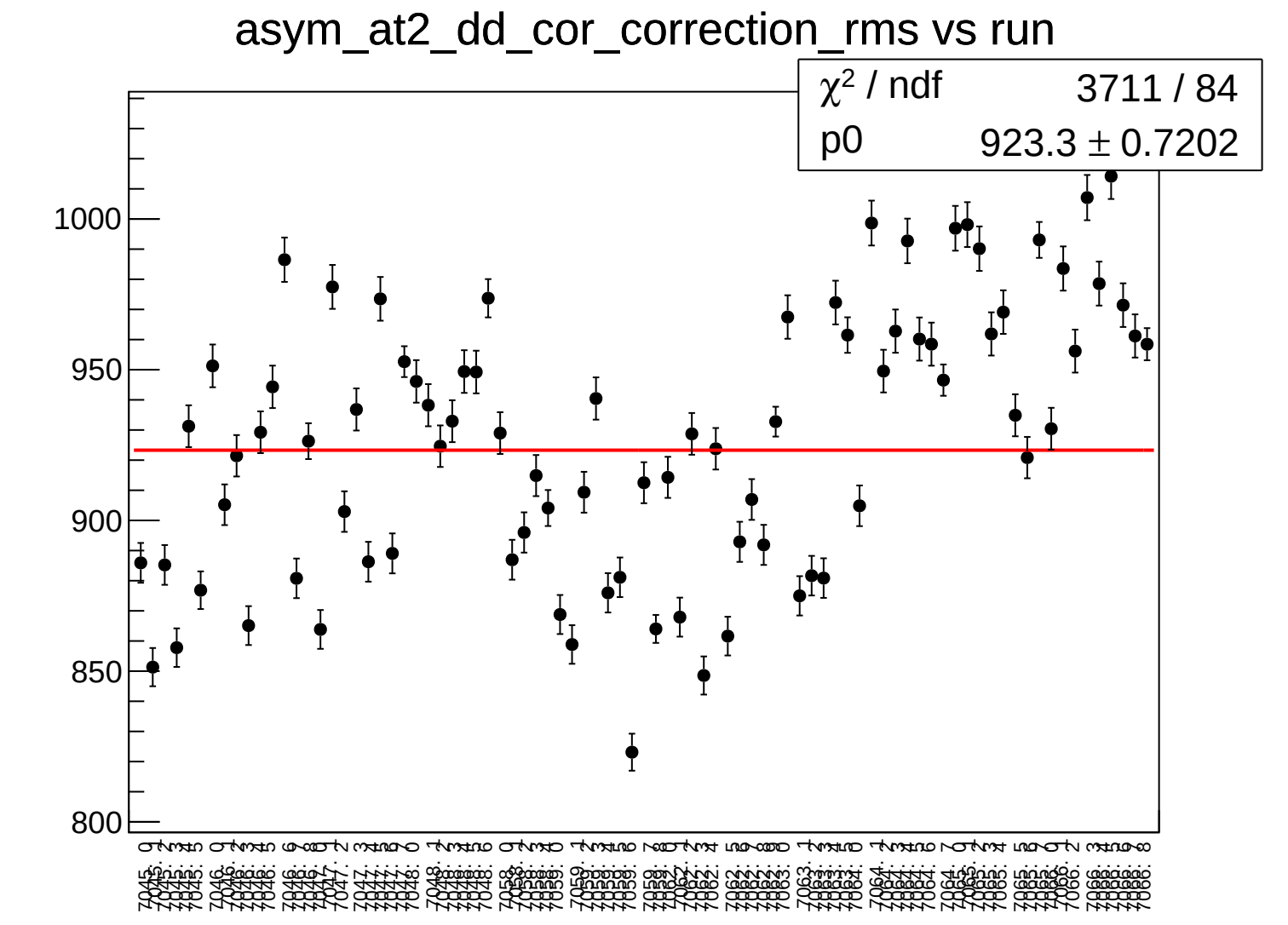

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3710 / 84
p0 923.3 ± 0.7202
1000
950
900
850
800

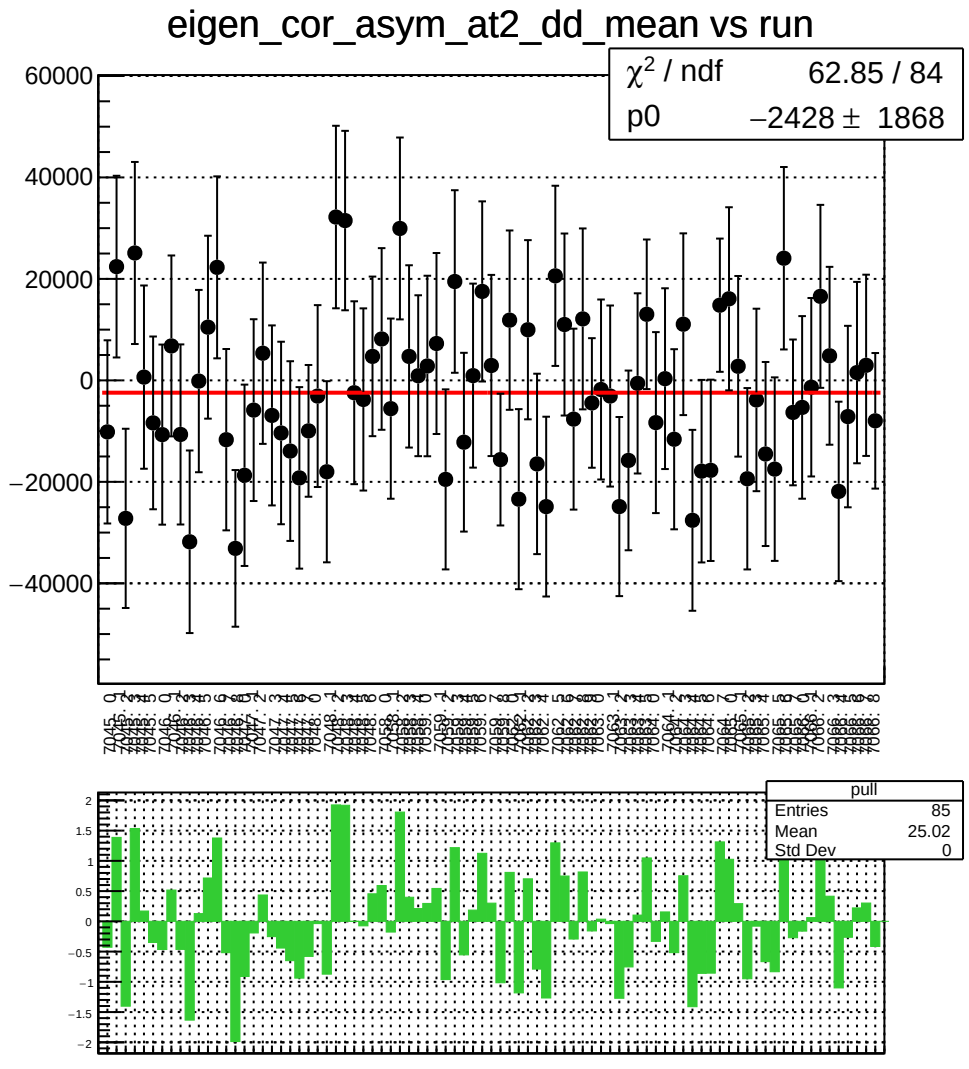

cor_asym_at2_dd_mean vs run
χ² / ndf 62.85 / 84
p0 −2428 ± 1868
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 25.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

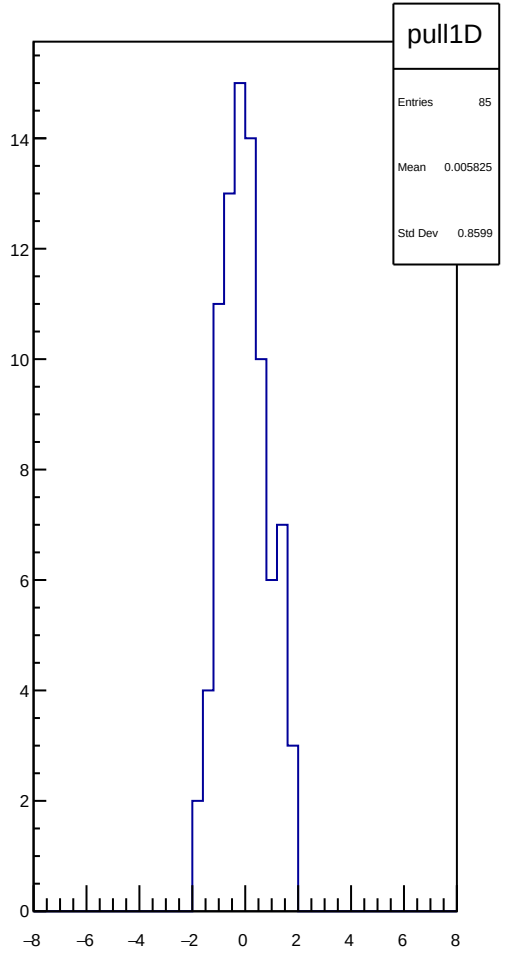

pull1D
Entries 85
Mean 0.005825
Std Dev 0.8599
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

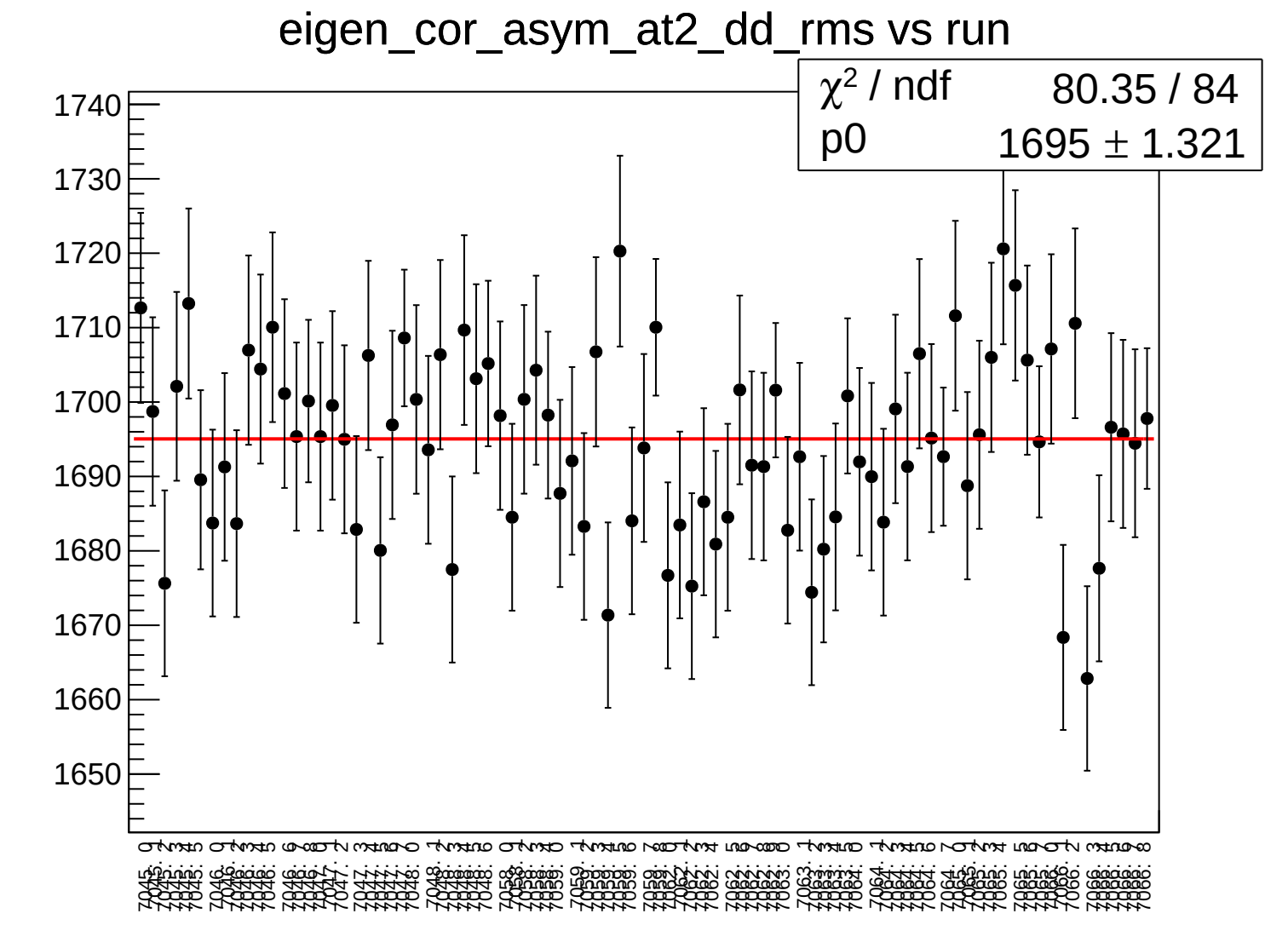

cor_asym_at2_dd_rms vs run
χ^2 / ndf 80.35 / 84
p0 1695 ± 1.321
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650

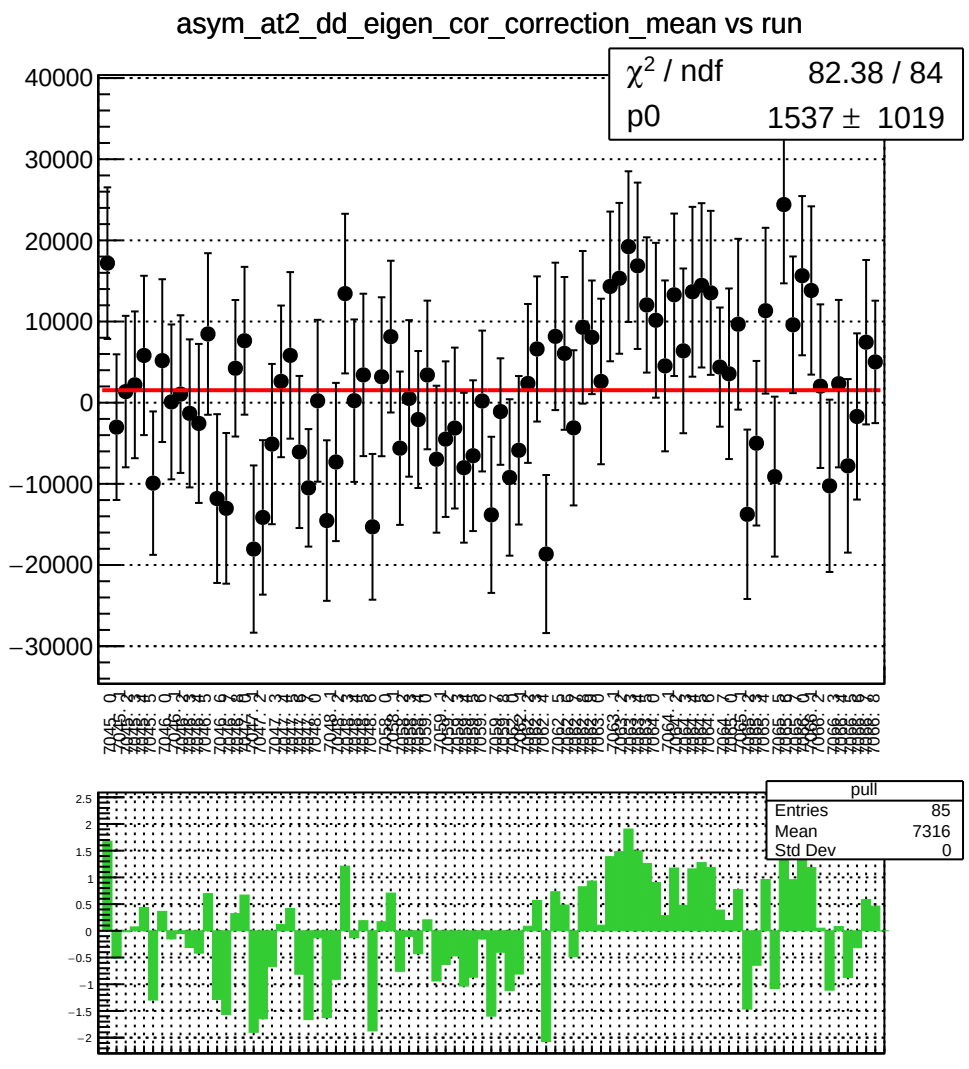

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 82.38 / 84
p0 1537 ± 1019
pull
Entries 85
Mean 7316
Std Dev 0
pull1D
Entries 85
Mean 0.001028
Std Dev 0.9844

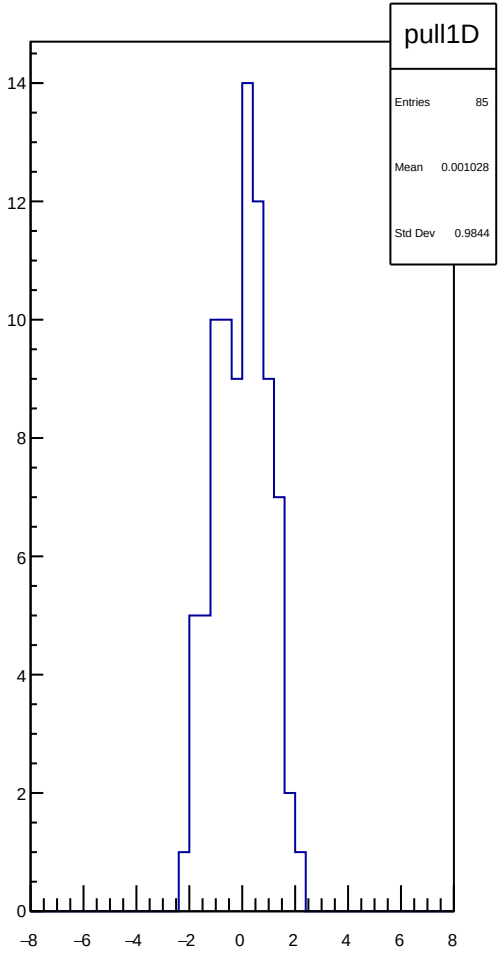

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3711 / 84
p0 923.3 ± 0.7202
1000
950
900
850
800

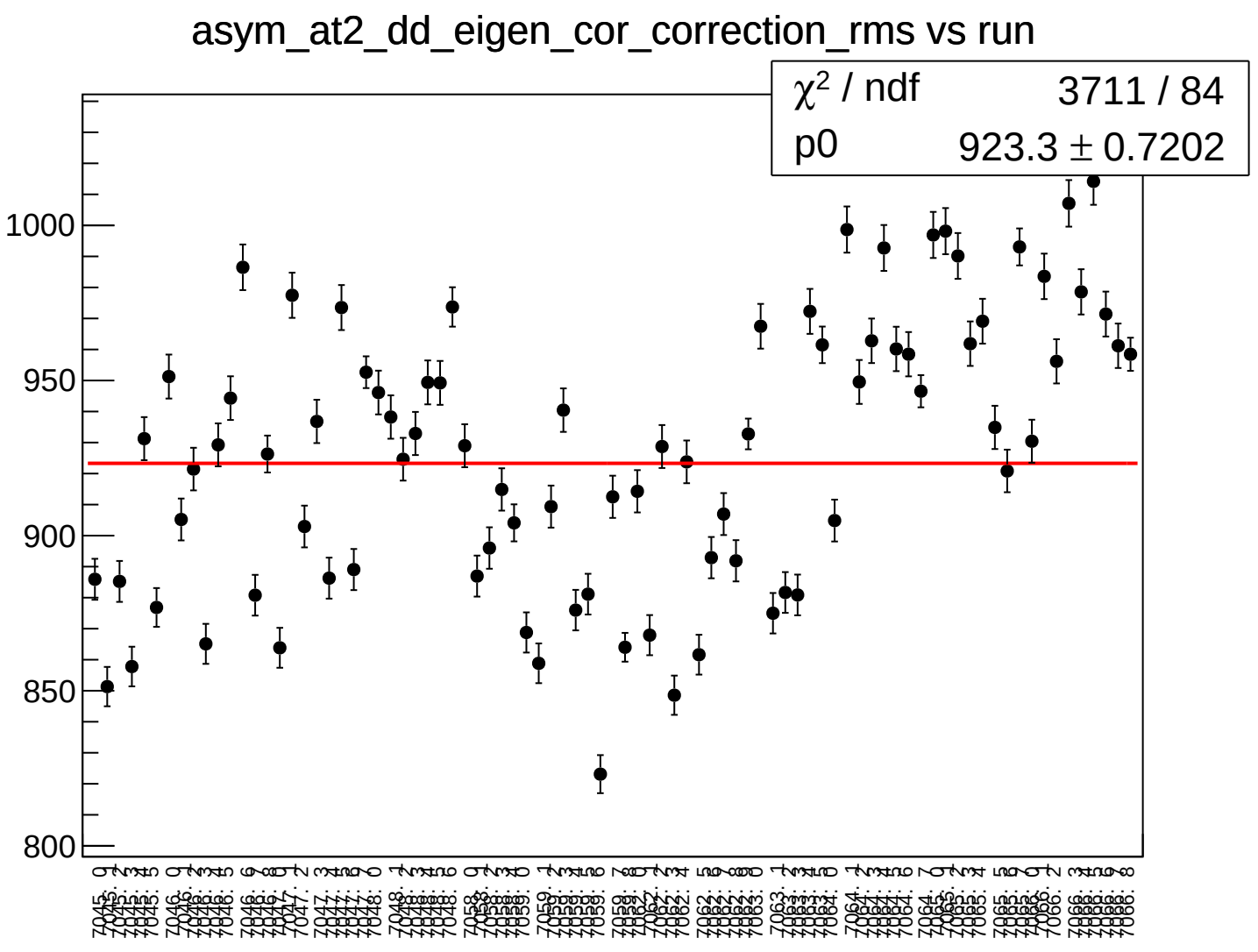

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 62.85 / 84
p0 −2428 ± 1868
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 25.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

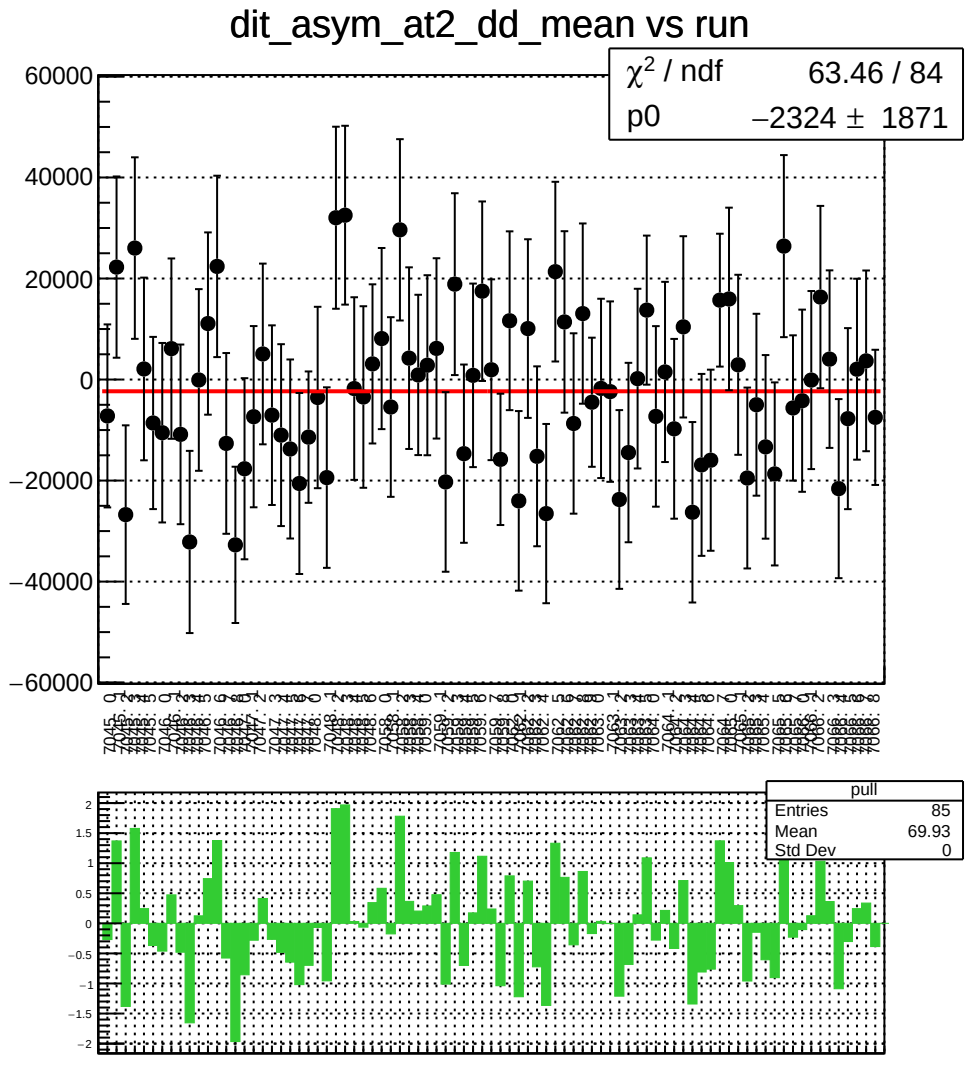

pull1D
Entries 85
Mean 0.005825
Std Dev 0.8599
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

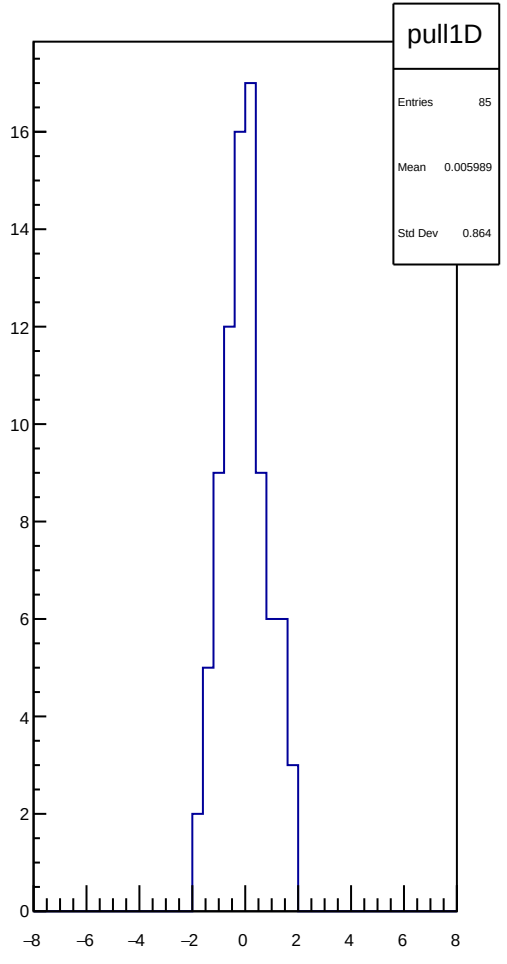

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 80.35 / 84
p0 1695 ± 1.321
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650

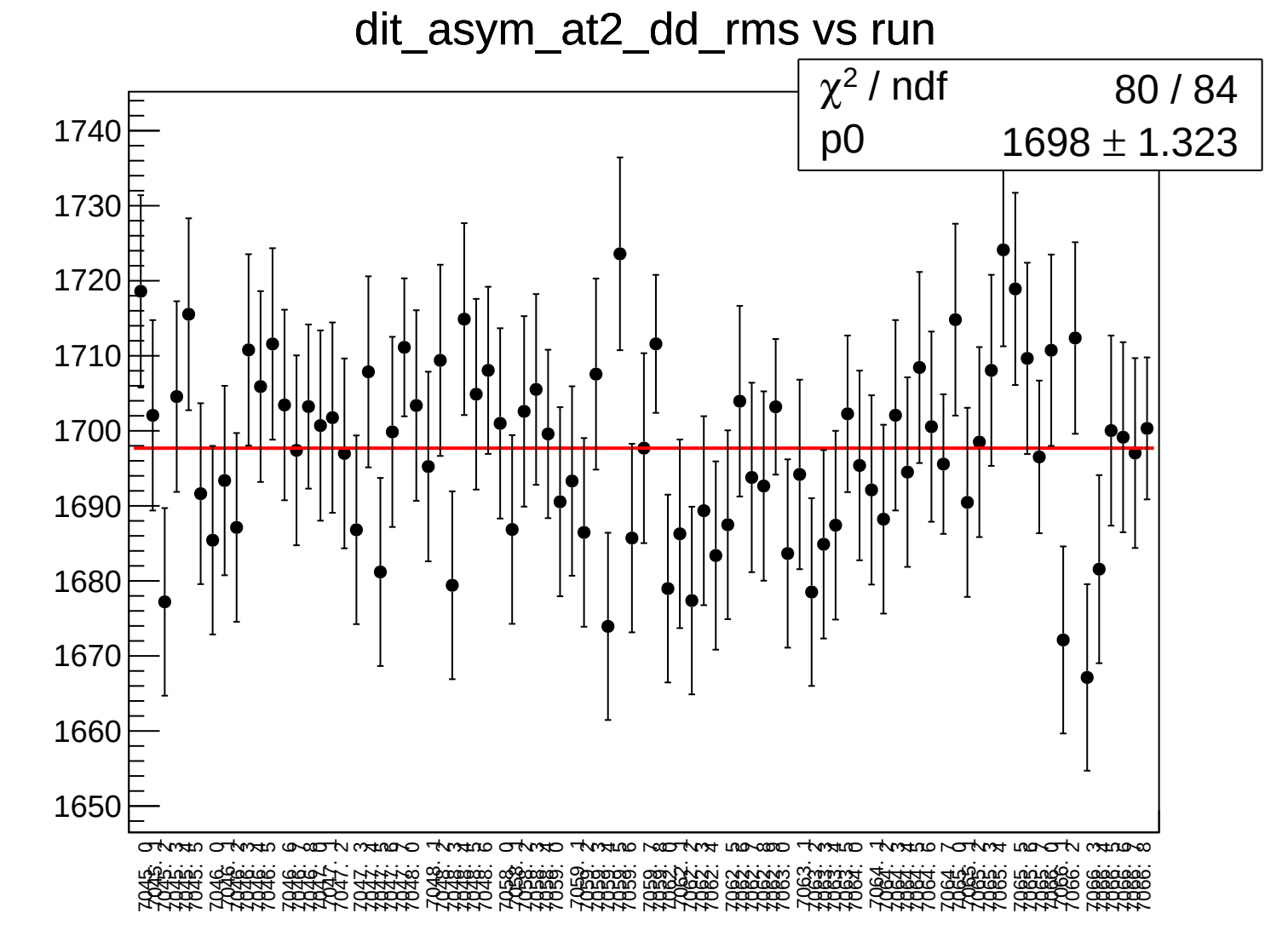

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.38 / 84
p0 1537 ± 1019
pull
Entries 85
Mean 7316
Std Dev 0

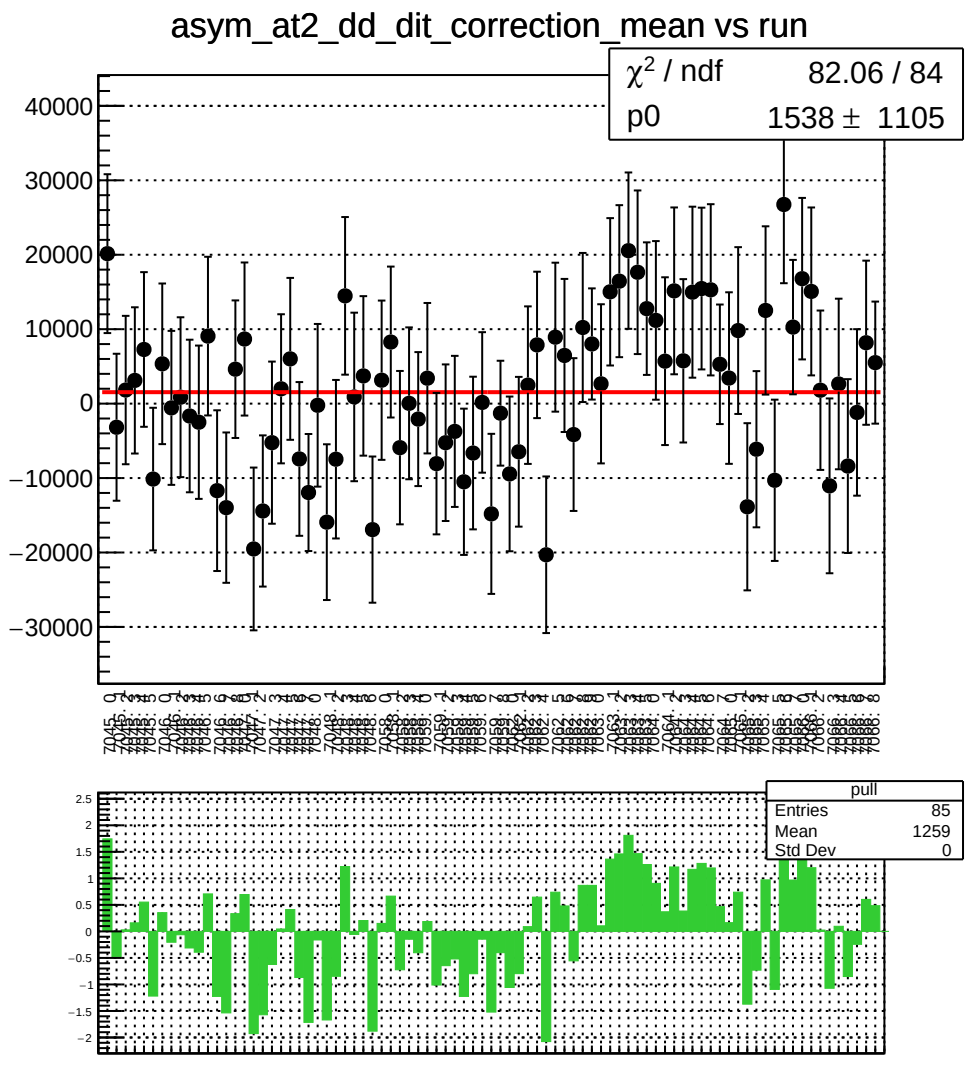

pull1D
Entries 85
Mean 0.001028
Std Dev 0.9844

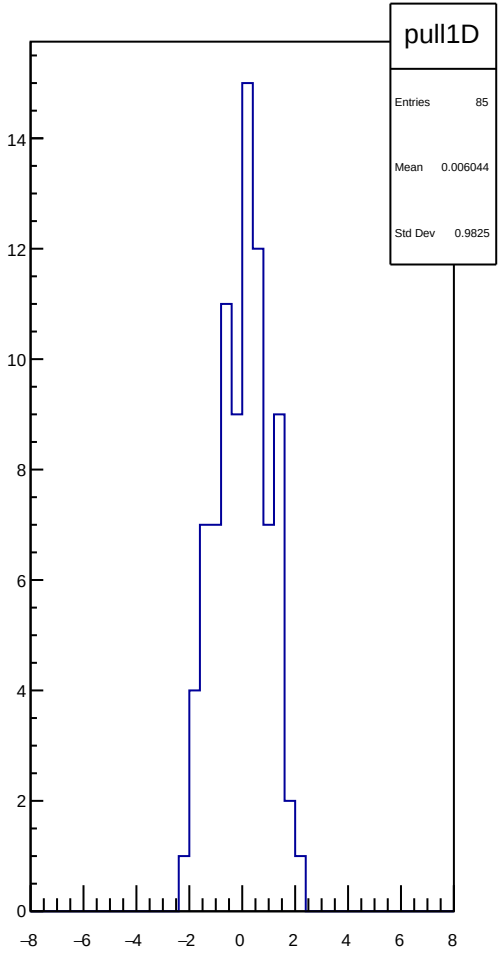

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3711 / 84
p0 923.3 ± 0.7202
1000
950
900
850
800

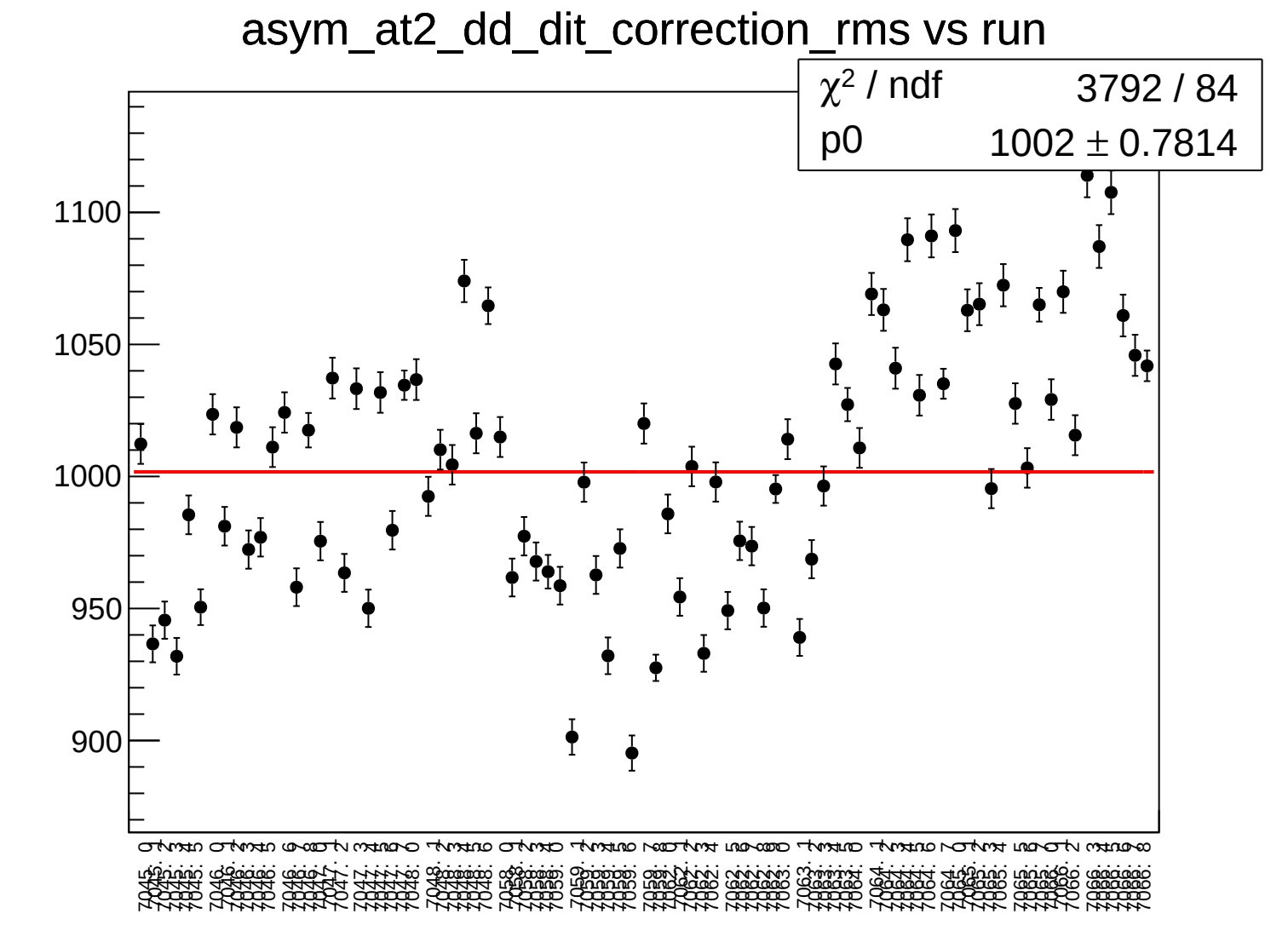

dit_asym_at2_dd_mean vs run
χ² / ndf 63.46 / 84
p0 −2324 ± 1871
pull
Entries 85
Mean 69.93
Std Dev 0

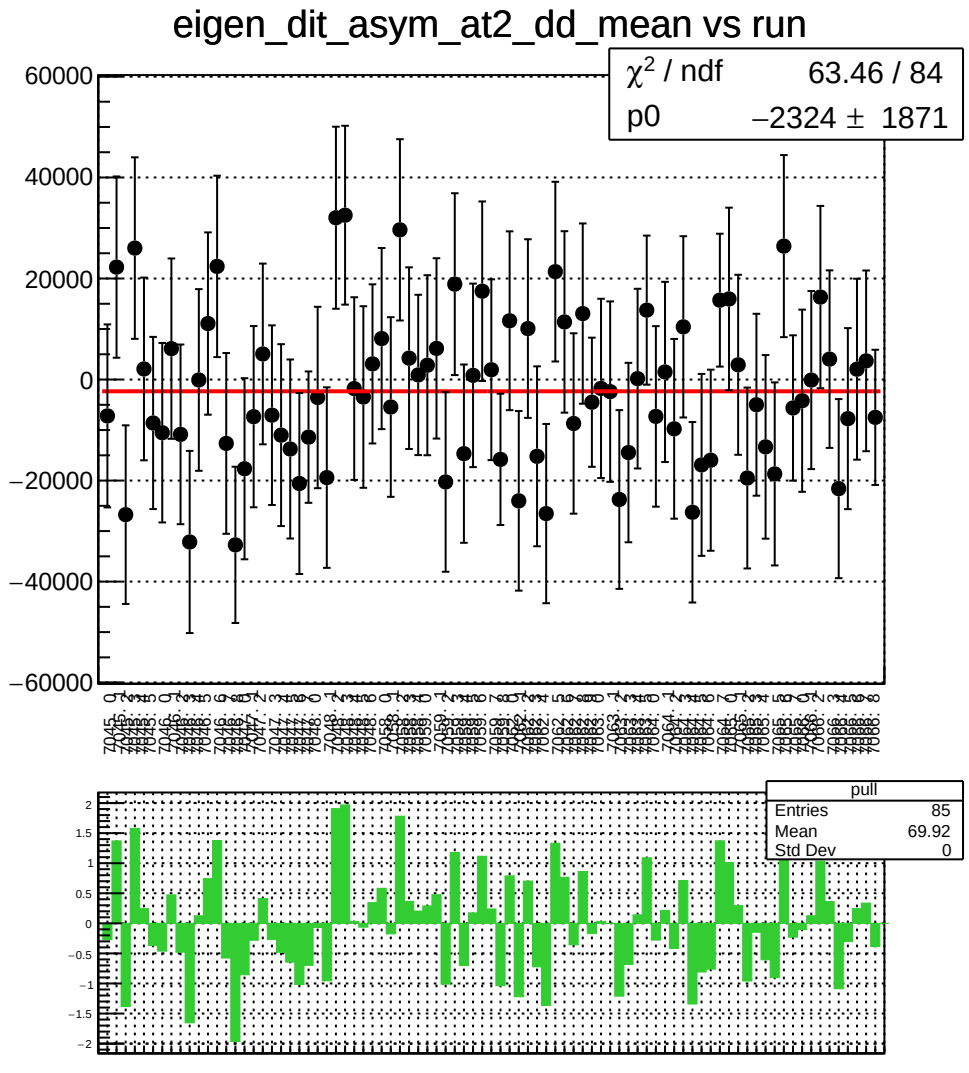

pull1D
Entries 85
Mean 0.005989
Std Dev 0.864

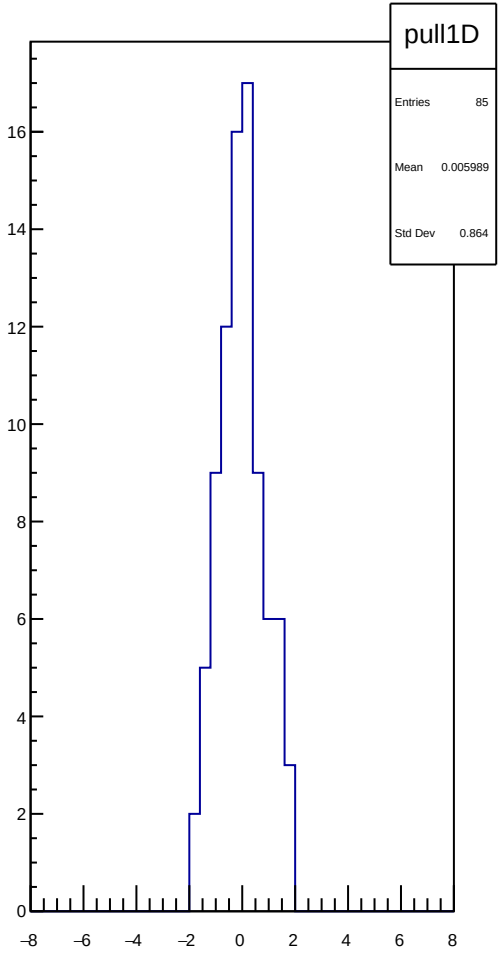

dit_asym_at2_dd_rms vs run
χ² / ndf 80 / 84
p0 1698 ± 1.323
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650

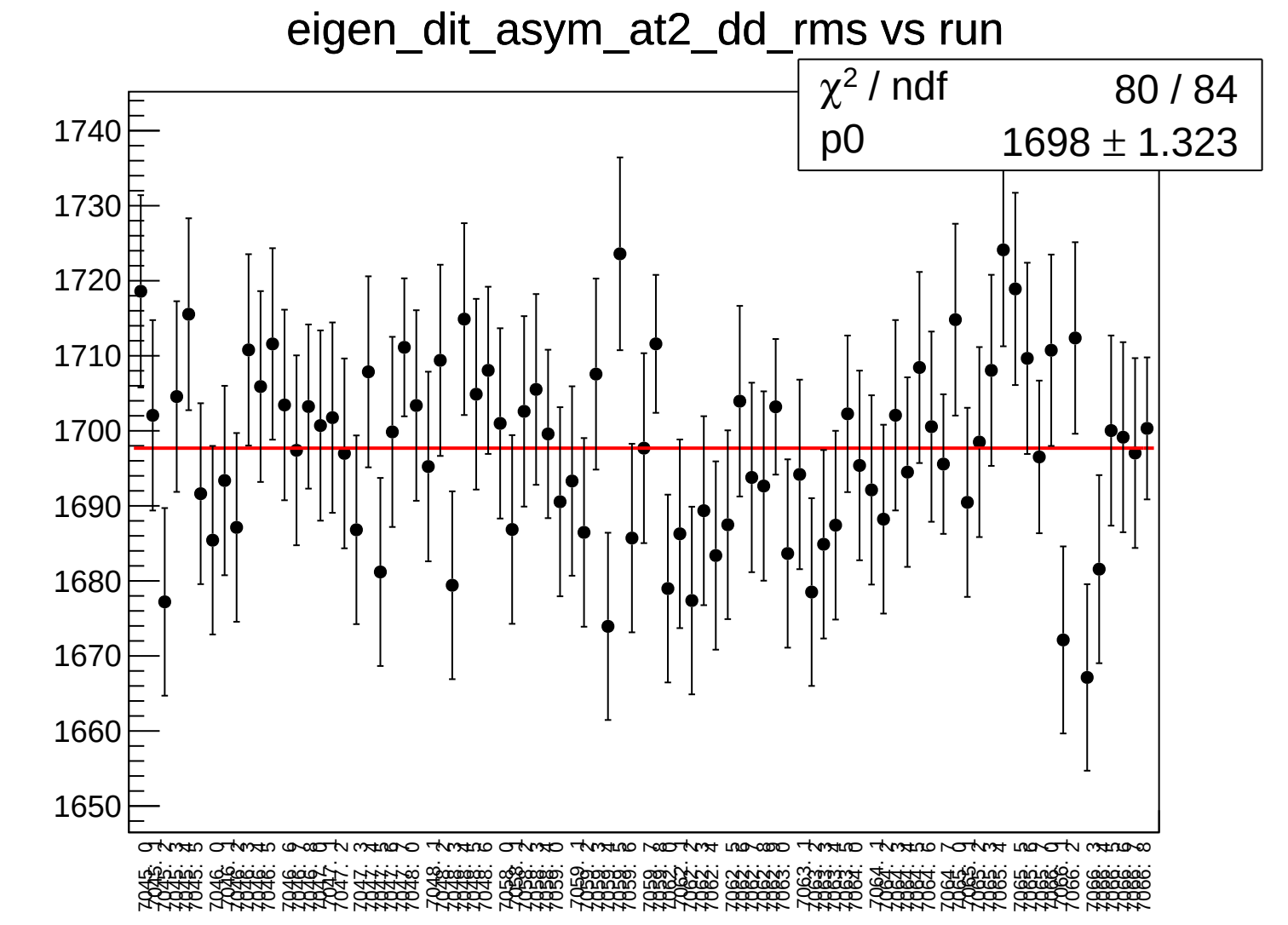

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 82.06 / 84
p0 1538 ± 1105
pull
Entries 85
Mean 1259
Std Dev 0

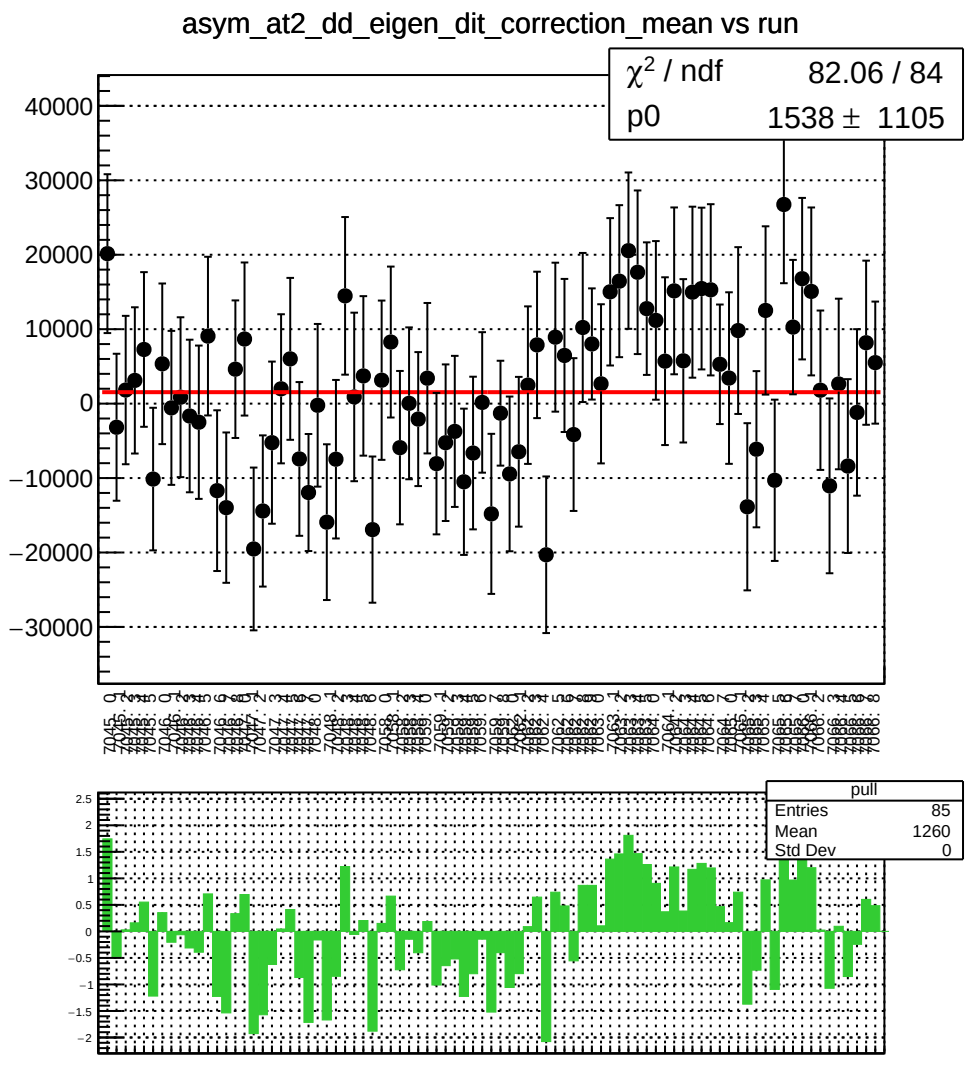

pull1D
Entries 85
Mean 0.006044
Std Dev 0.9825

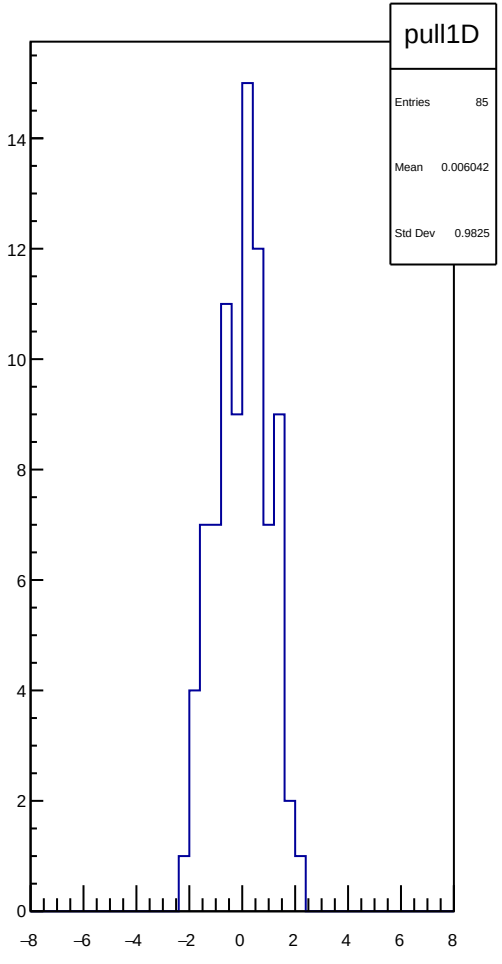

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3792 / 84
p0 1002 ± 0.7814
1100
1050
1000
950
900

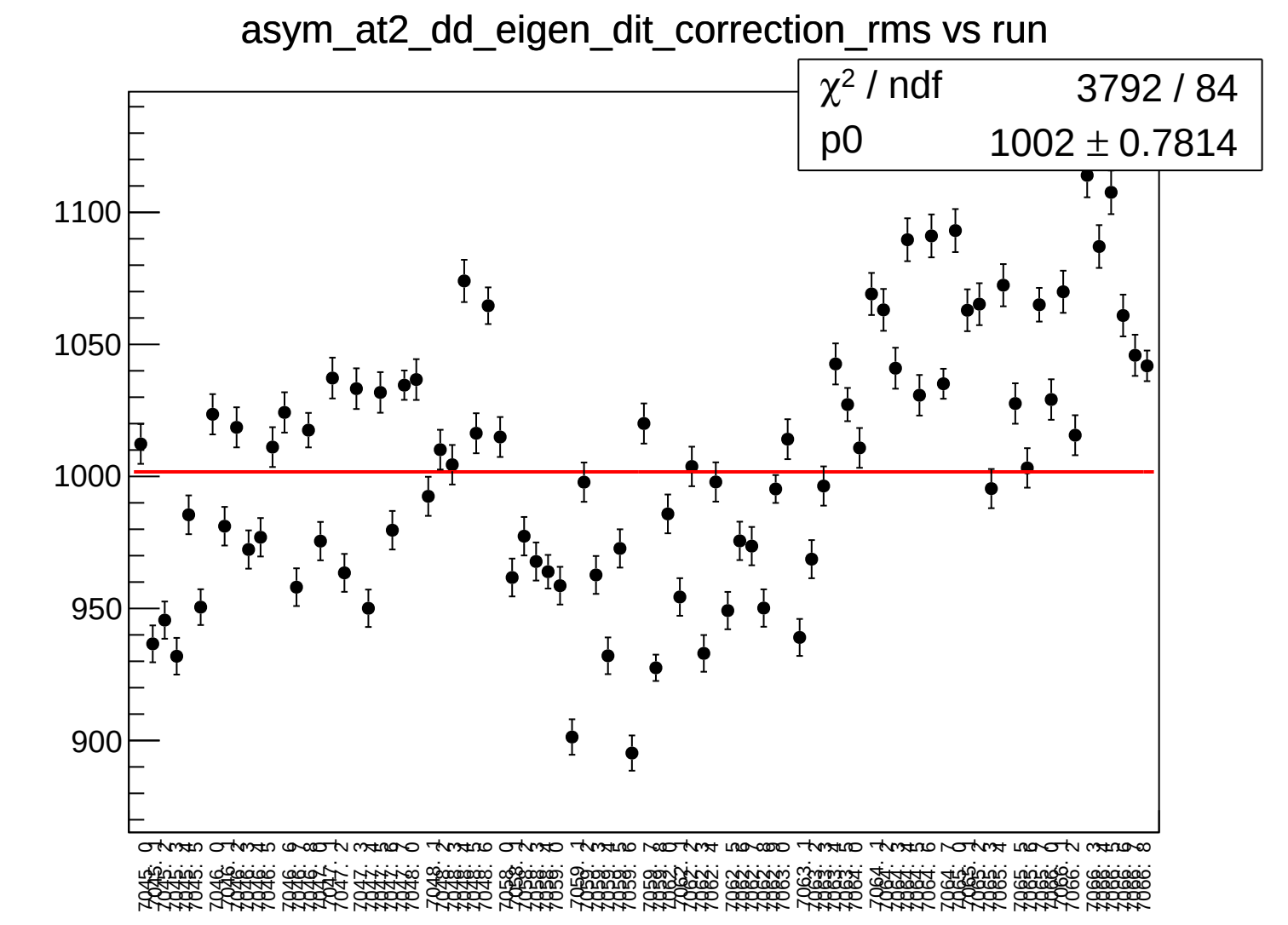

eigen_dit_asym_at2_dd_mean vs run
χ^2 / ndf 63.46 / 84
p0 −2324 ± 1871
pull
Entries 85
Mean 69.92
Std Dev 0

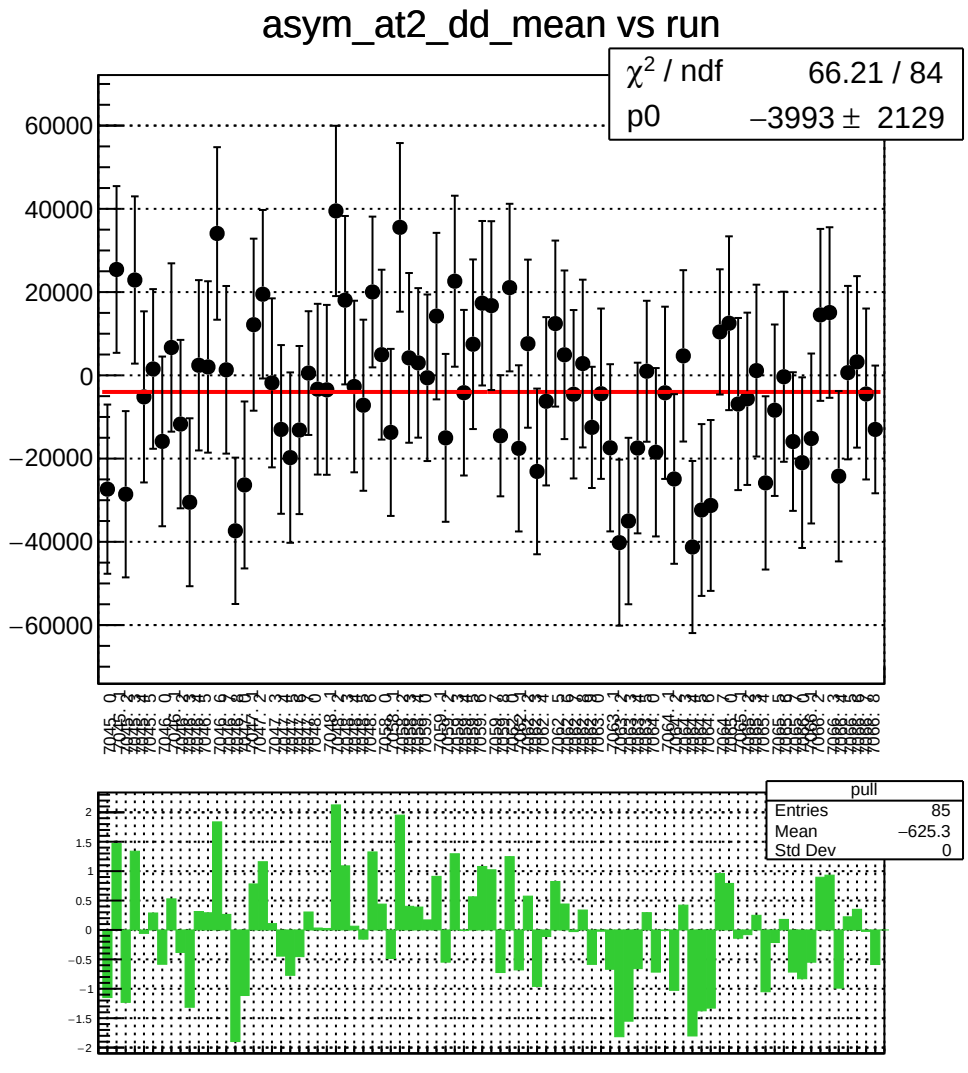

pull1D
Entries 85
Mean 0.005989
Std Dev 0.864

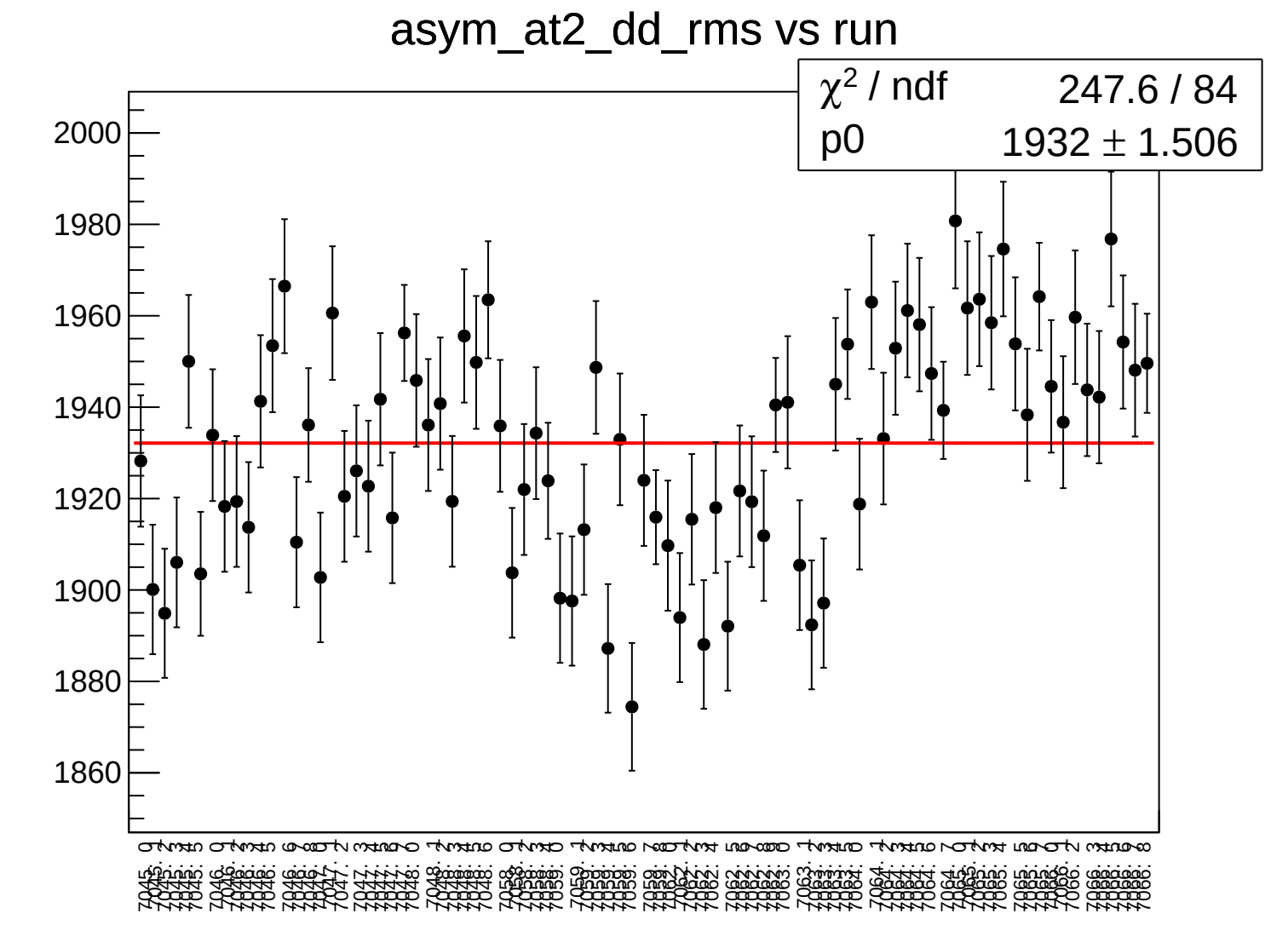

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 80 / 84
p0 1698 ± 1.323
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650

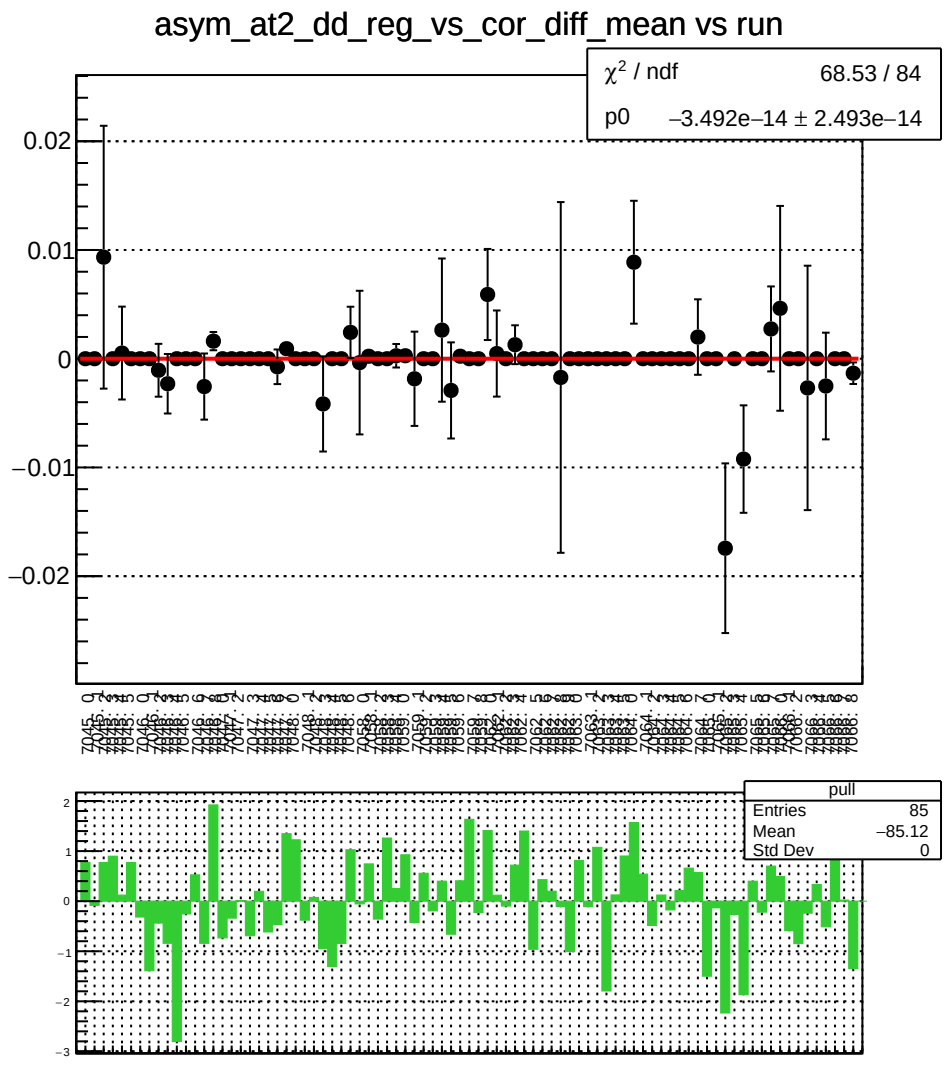

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.06 / 84
p0 1538 ± 1105
pull
Entries 85
Mean 1260
Std Dev 0

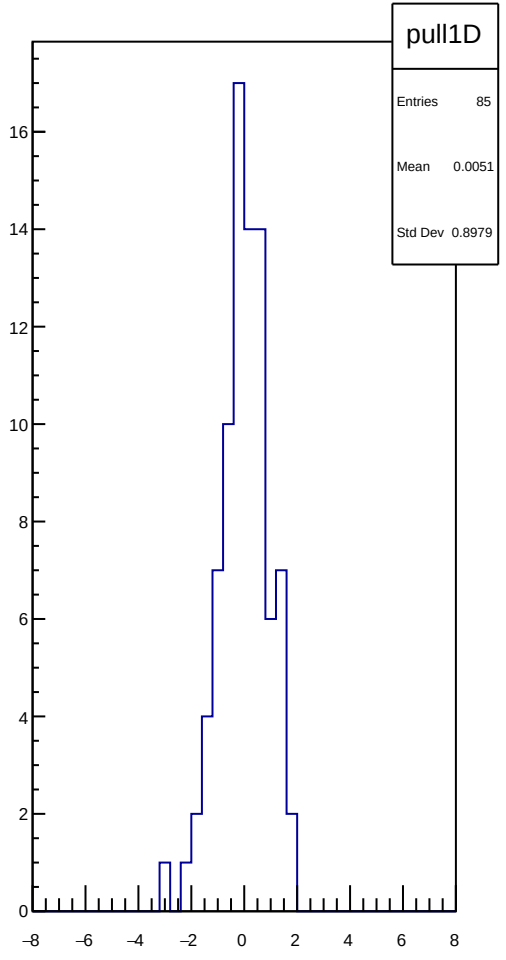

pull1D
Entries 85
Mean 0.006042
Std Dev 0.9825

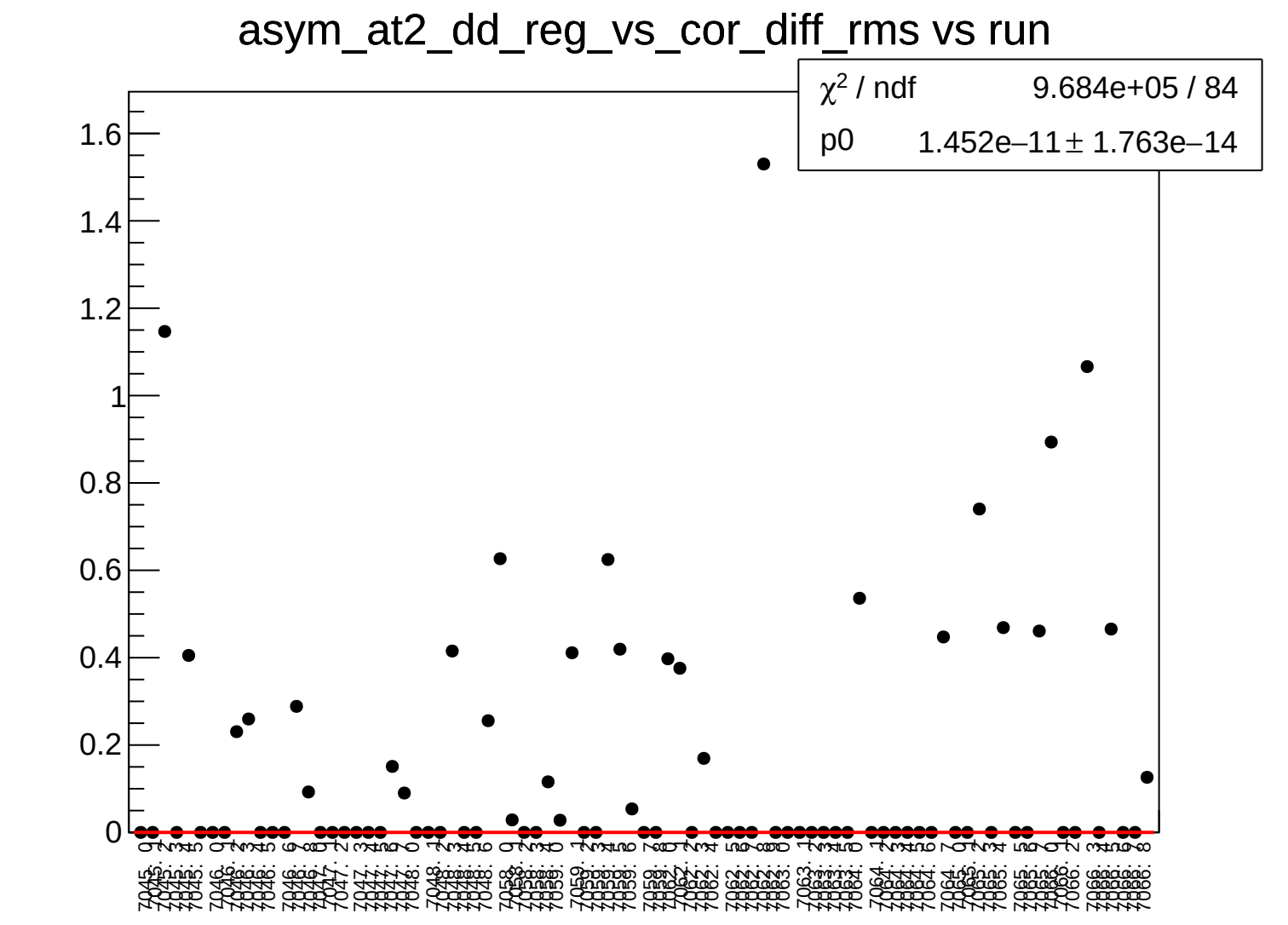

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3792 / 84
p0 1002 ± 0.7814
1100
1050
1000
950
900

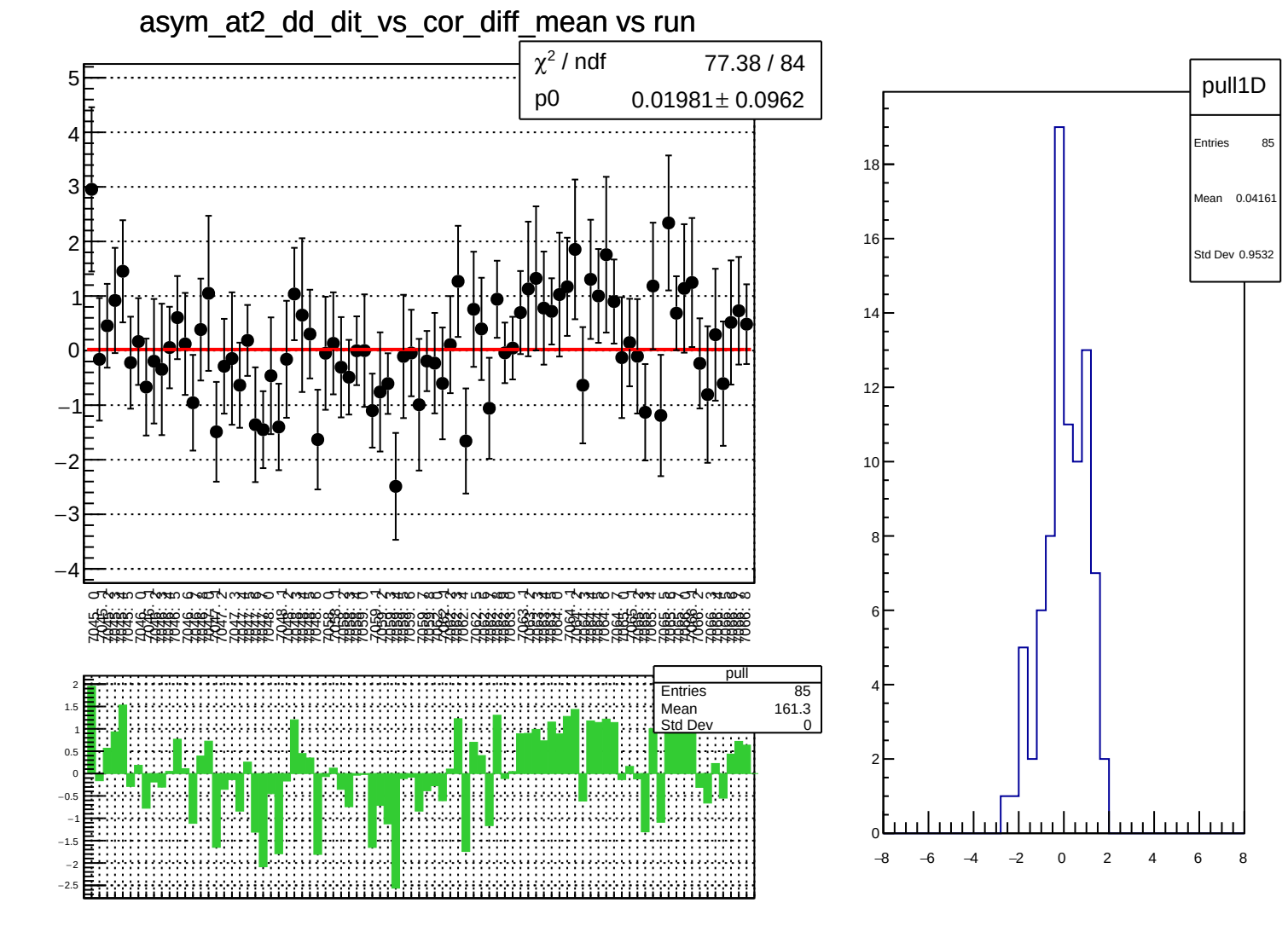

asym_at2_dd_mean vs run
χ² / ndf 66.21 / 84
p0 −3993 ± 2129
pull
Entries 85
Mean −625.3
Std Dev 0
pull1D
Entries 85
Mean 0.005506
Std Dev 0.8825

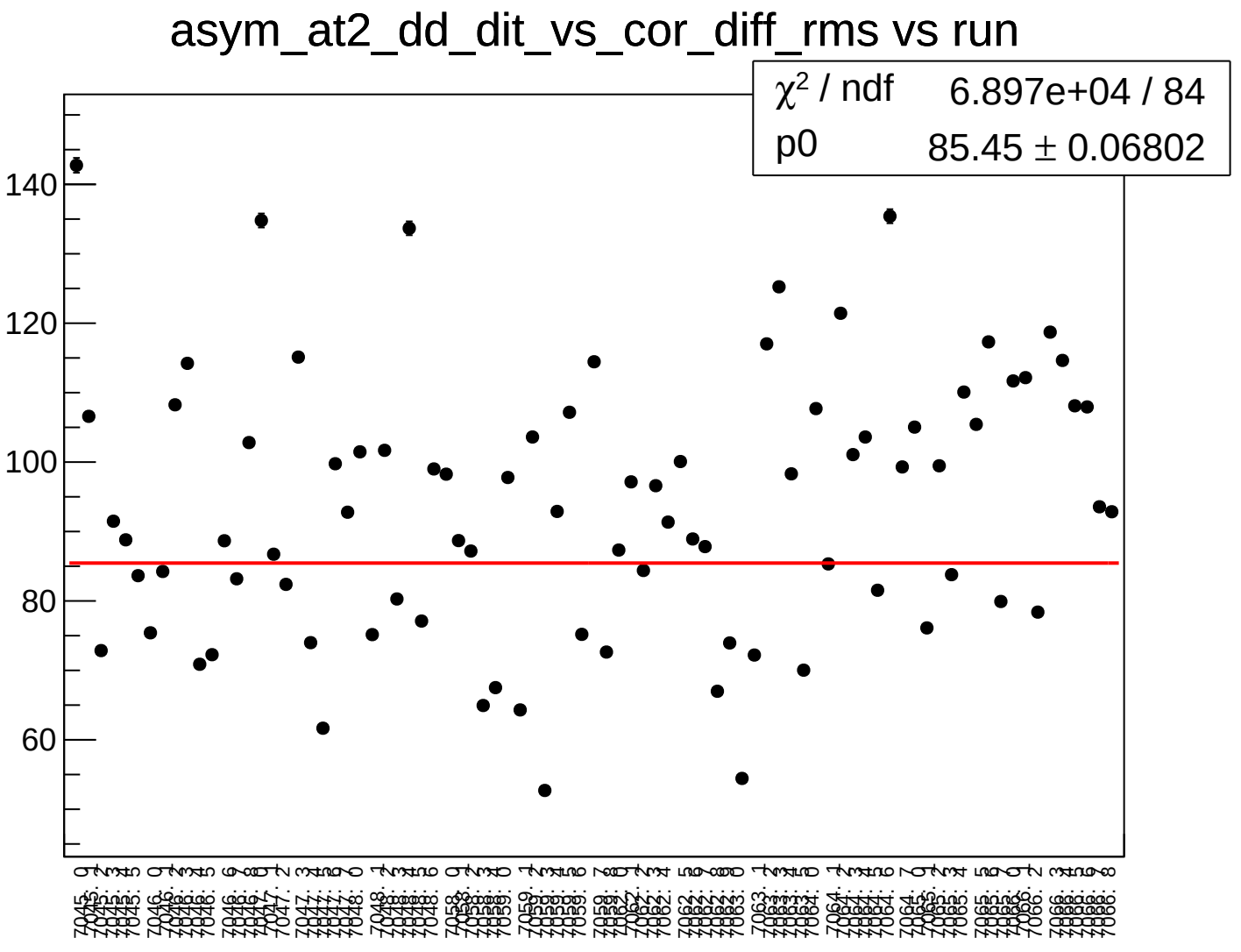

asym_at2_dd_rms vs run
χ^2 / ndf 247.6 / 84
p0 1932 ± 1.506
2000
1980
1960
1940
1920
1900
1880
1860

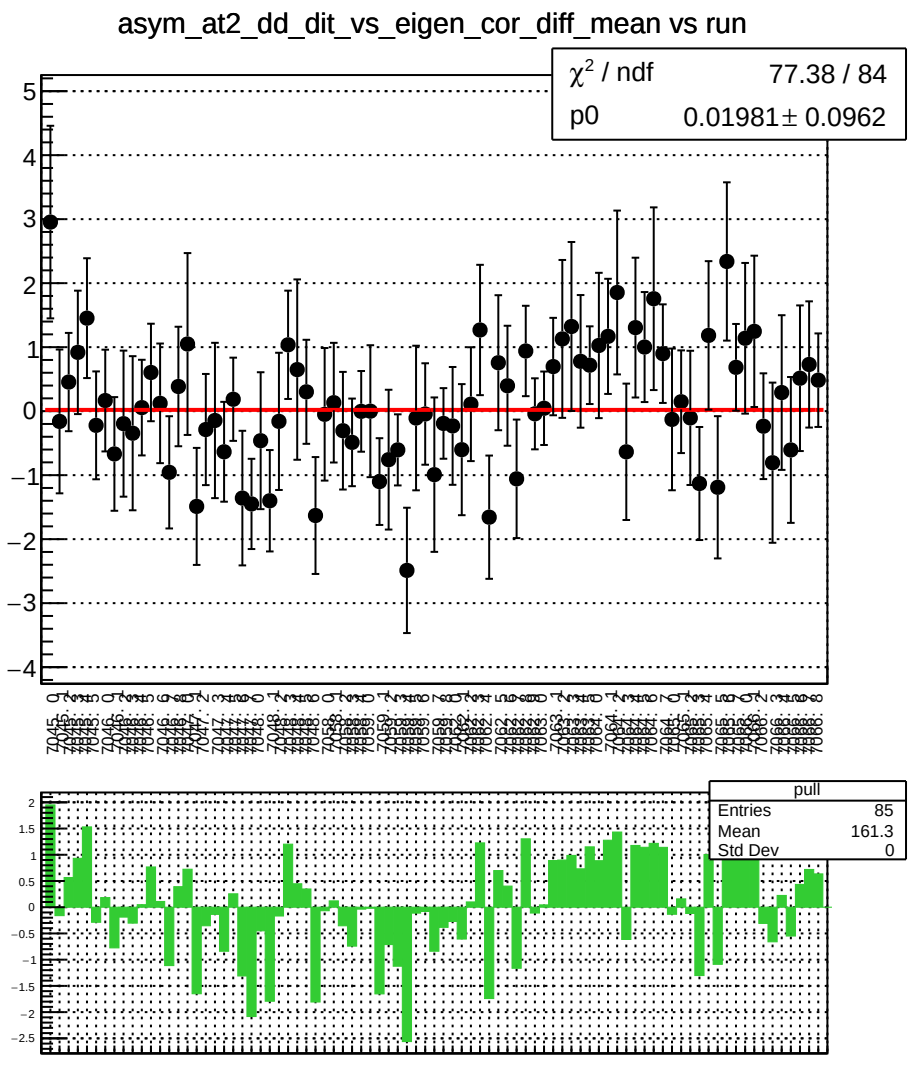

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.53 / 84
p0 −3.492e−14 ± 2.493e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −85.12
Std Dev 0

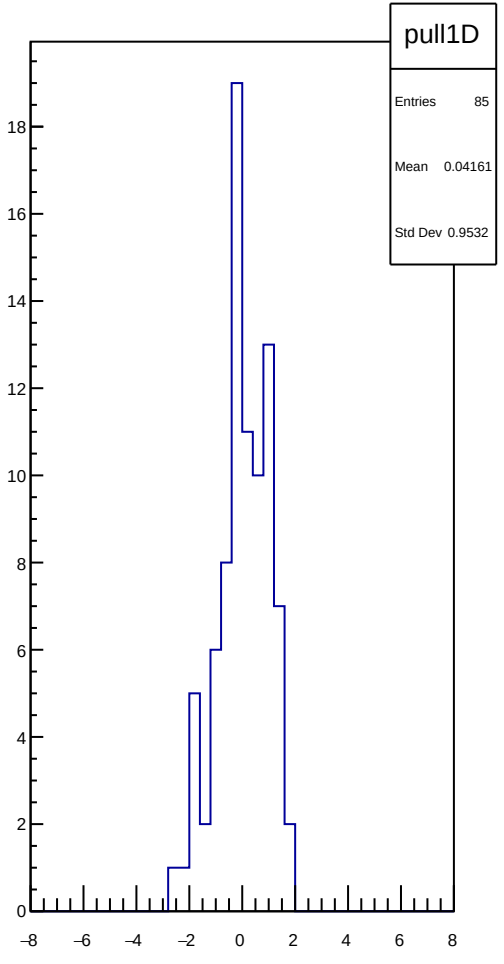

pull1D
Entries 85
Mean 0.0051
Std Dev 0.8979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

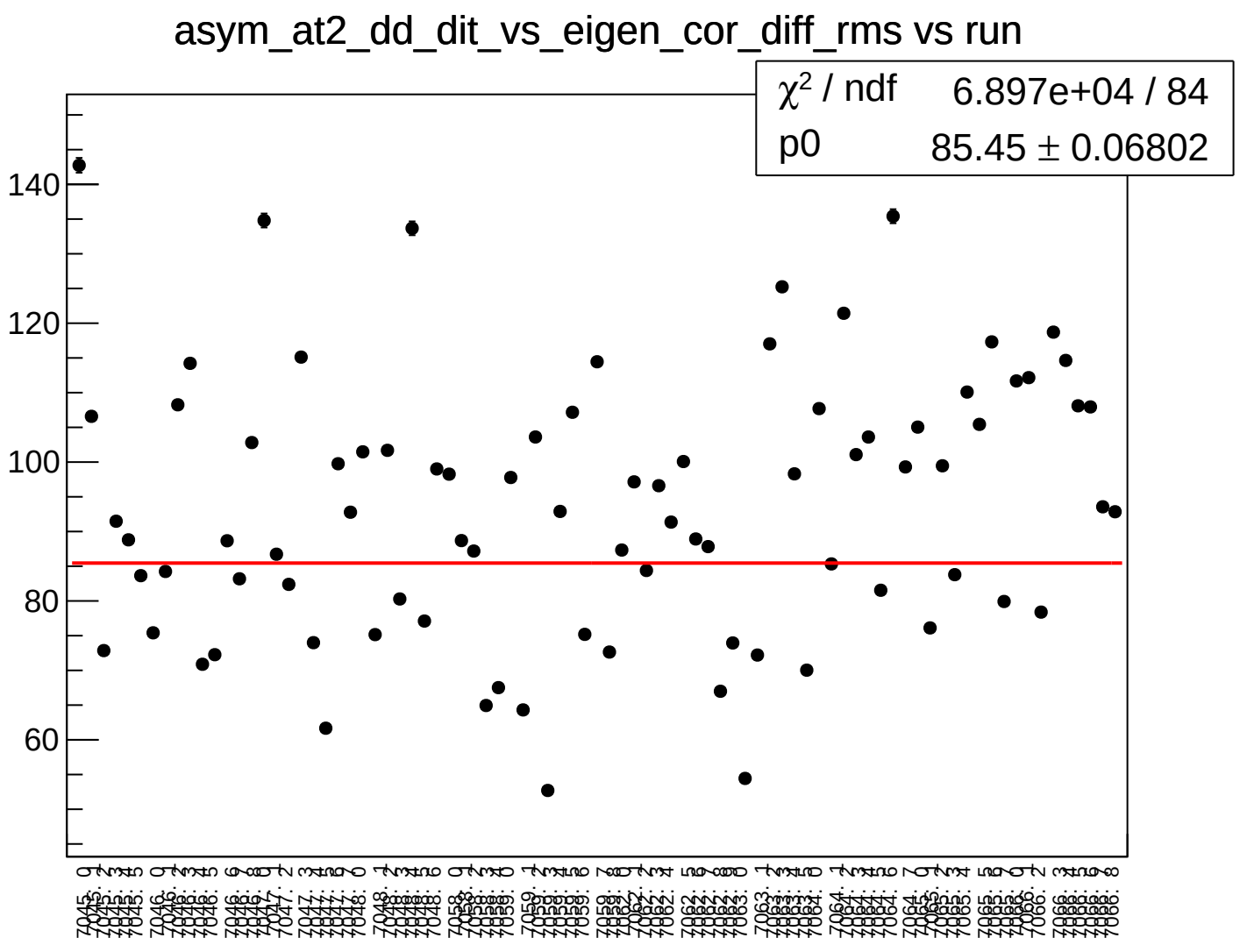

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.684e+05 / 84
p0 1.452e−11 ± 1.763e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

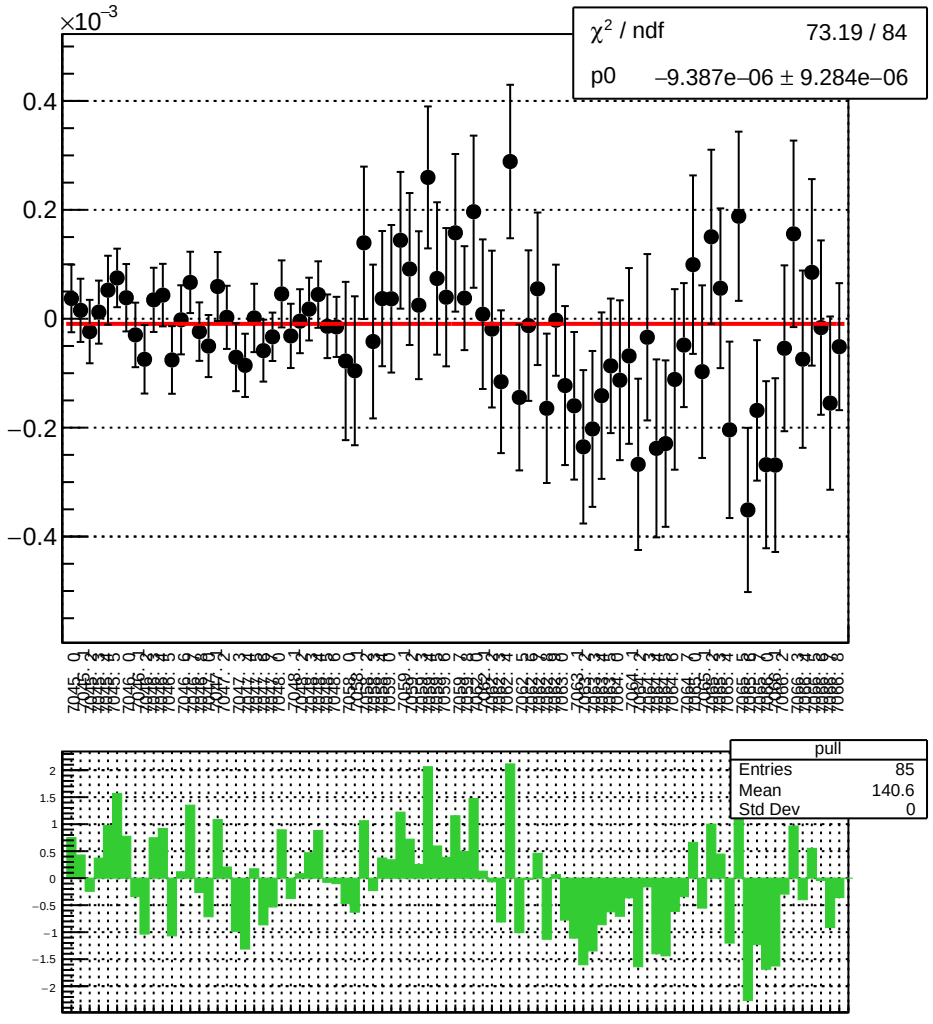

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.38 / 84
p0 0.01981 ± 0.0962
pull
Entries 85
Mean 161.3
Std Dev 0
pull1D
Entries 85
Mean 0.04161
Std Dev 0.9532

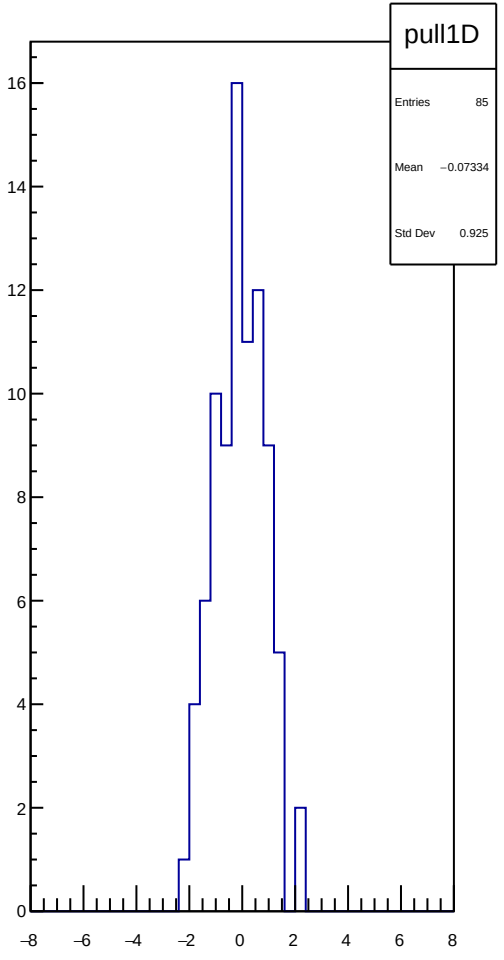

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.897e+04 / 84
p0 85.45 ± 0.06802
140
120
100
80
60

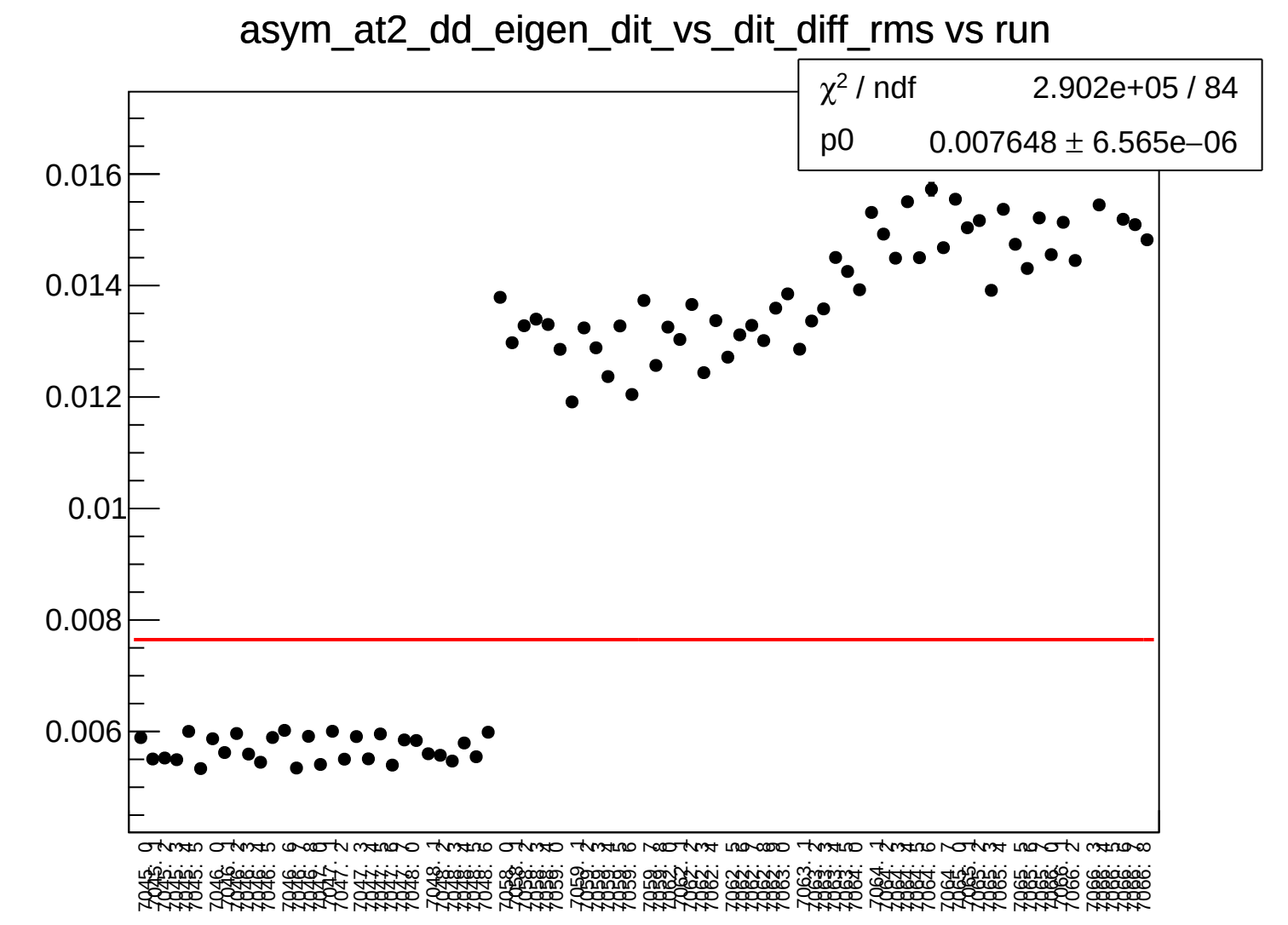

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.38 / 84
p0 0.01981 ± 0.0962
pull
Entries 85
Mean 161.3
Std Dev 0

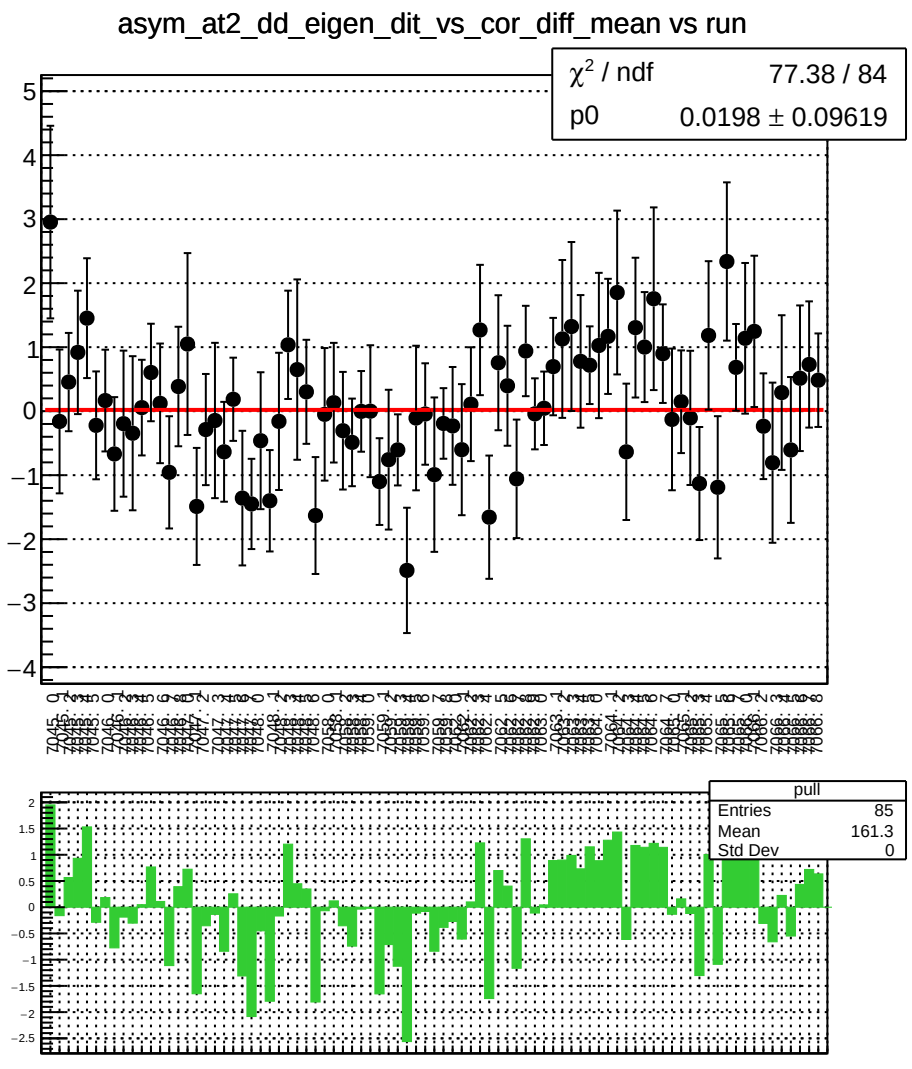

pull1D
Entries 85
Mean 0.04161
Std Dev 0.9532

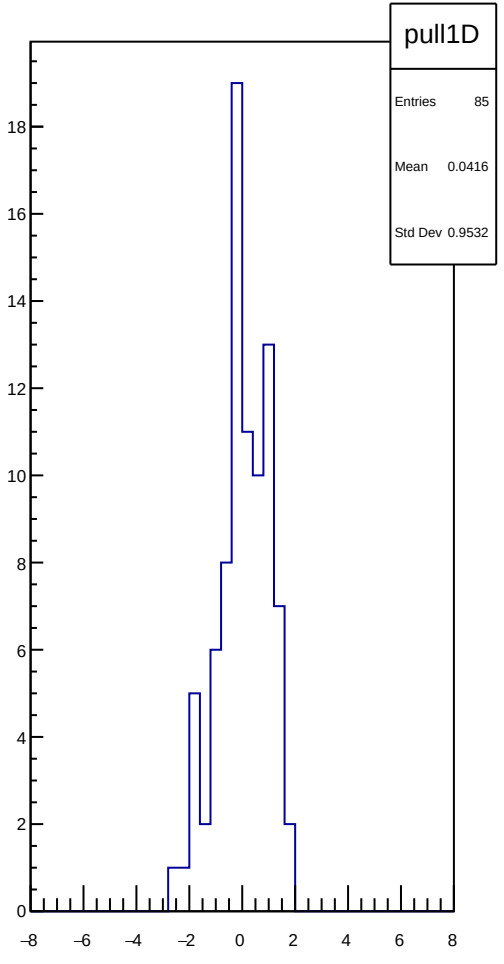

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.897e+04 / 84
p0 85.45 ± 0.06802
140
120
100
80
60

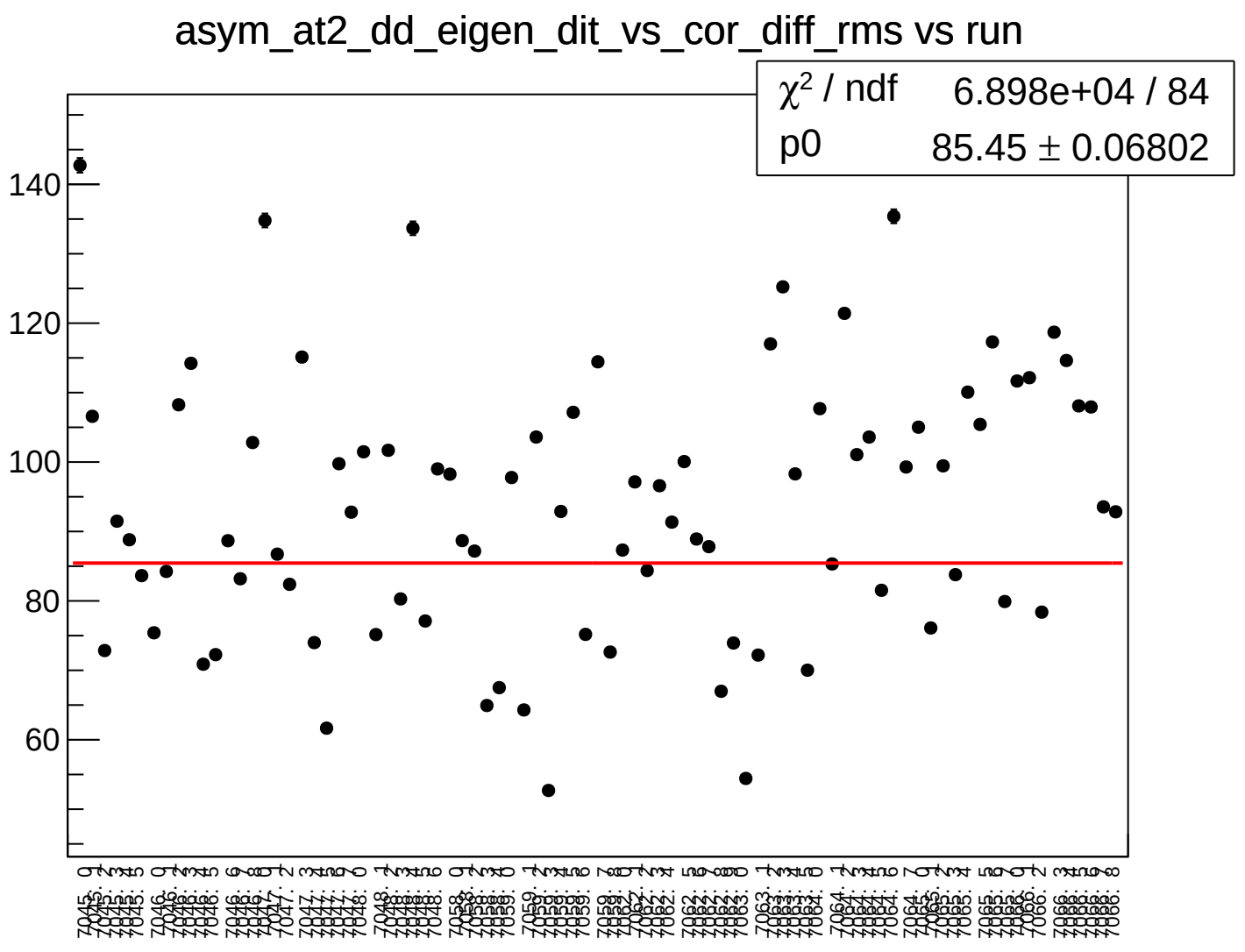

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.19 / 84
p0 −9.387e−06 ± 9.284e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 140.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

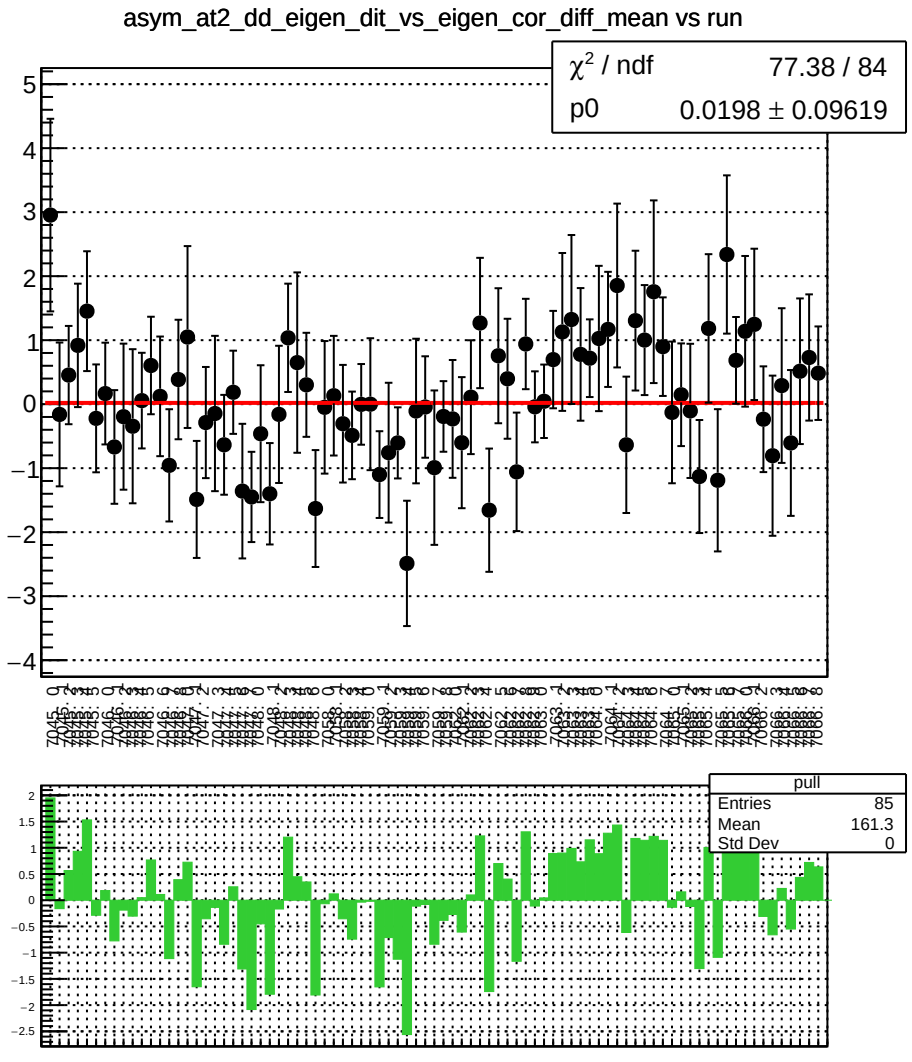

pull1D
Entries 85
Mean −0.07334
Std Dev 0.925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

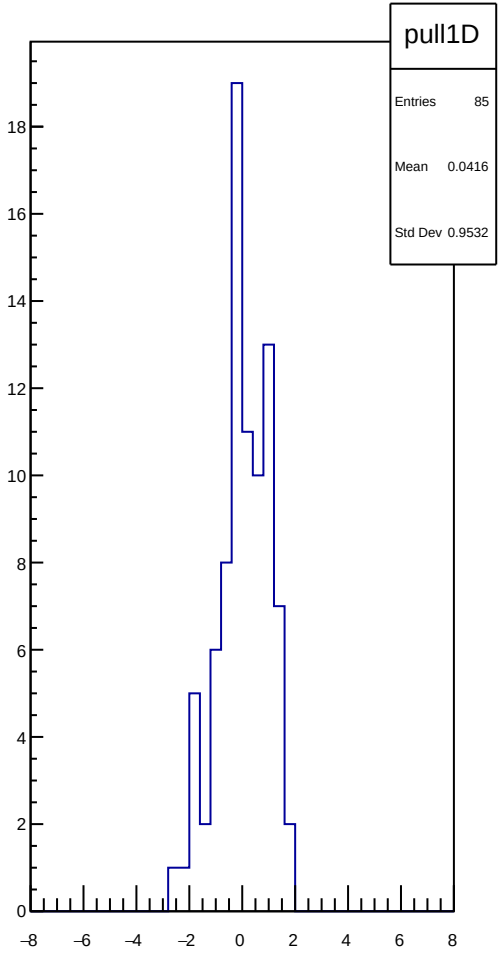

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.902e+05 / 84
p0 0.007648 ± 6.565e−06
0.016
0.014
0.012
0.01
0.008
0.006

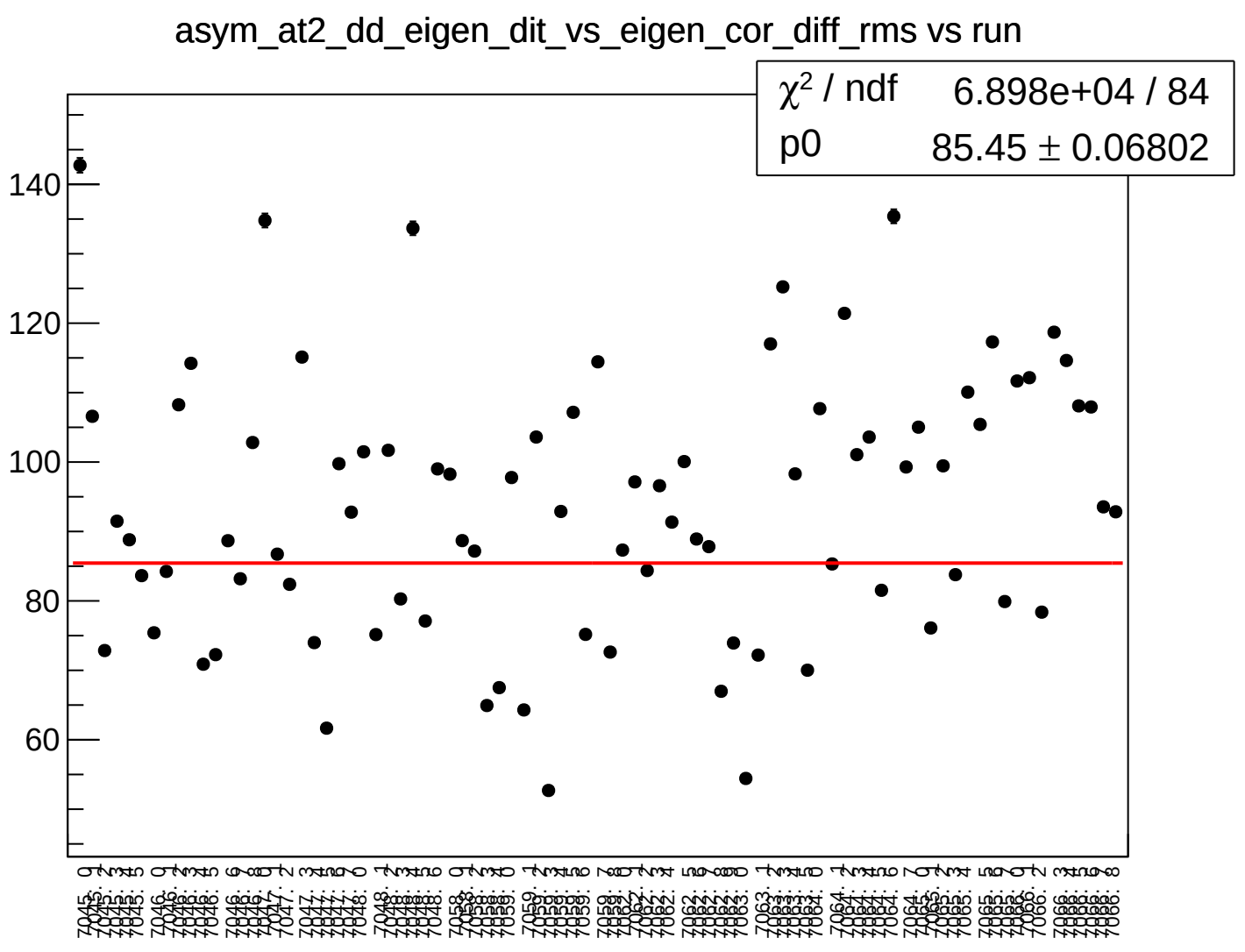

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.38 / 84
p0 0.0198 ± 0.09619
pull
Entries 85
Mean 161.3
Std Dev 0

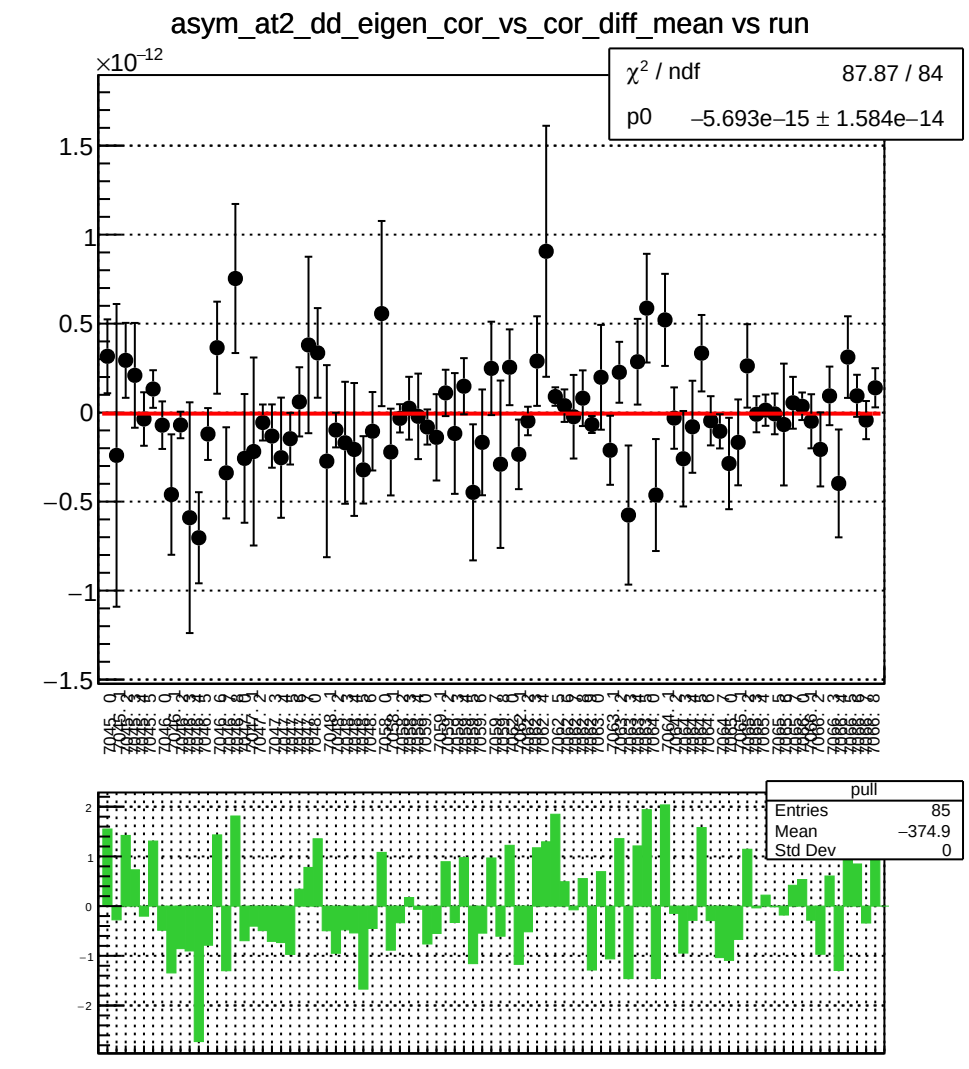

pull1D
Entries 85
Mean 0.0416
Std Dev 0.9532

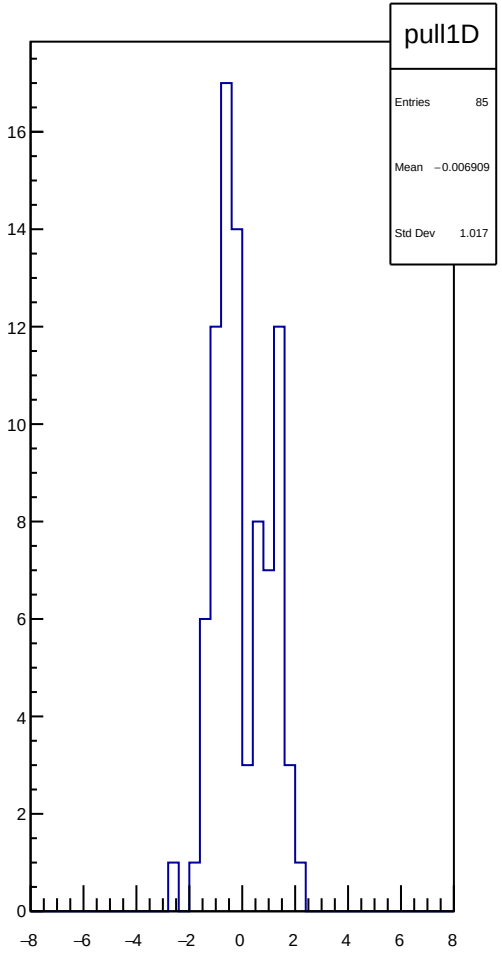

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.898e+04 / 84
p0 85.45 ± 0.06802
140
120
100
80
60

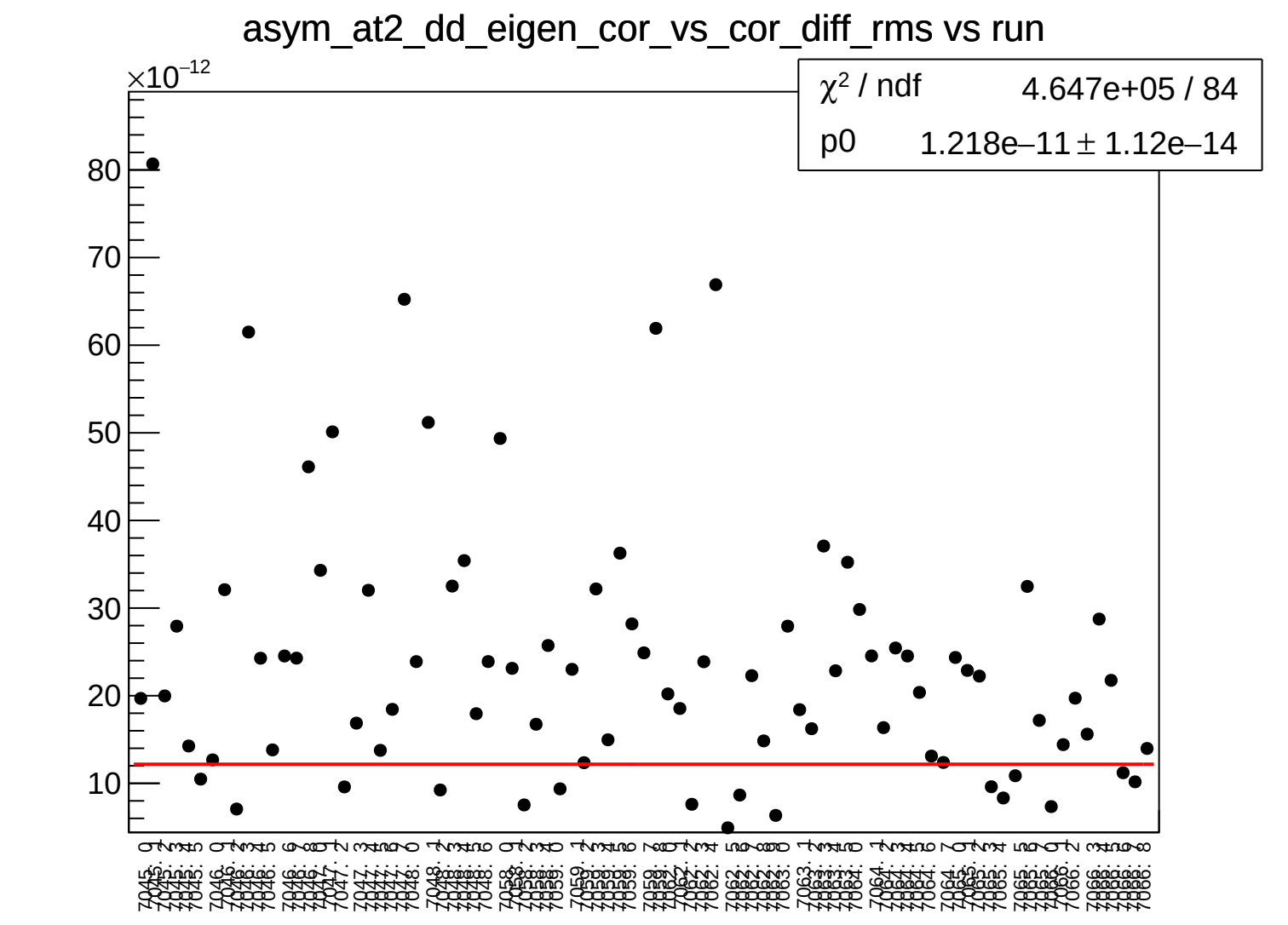

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.38 / 84
p0 0.0198 ± 0.09619
pull
Entries 85
Mean 161.3
Std Dev 0

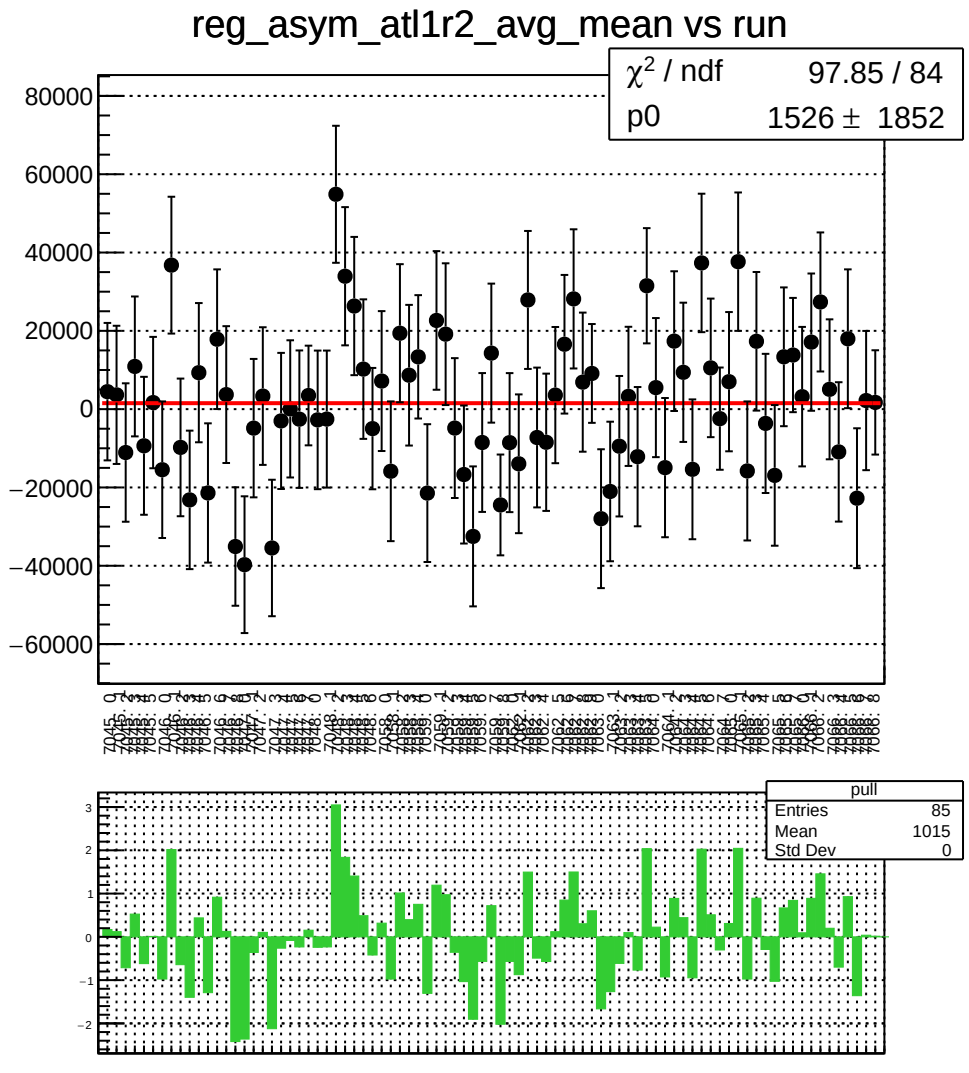

pull1D
Entries 85
Mean 0.0416
Std Dev 0.9532

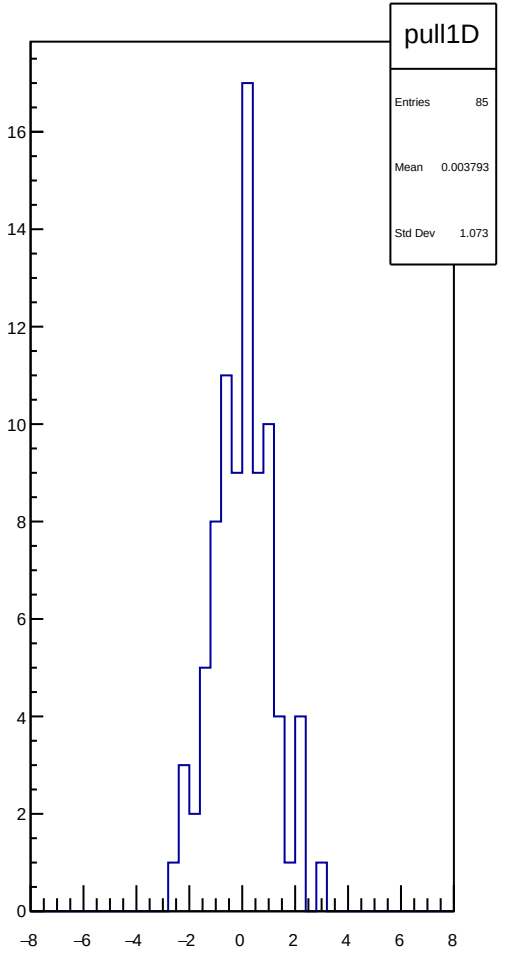

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.898e+04 / 84
p0 85.45 ± 0.06802
140
120
100
80
60

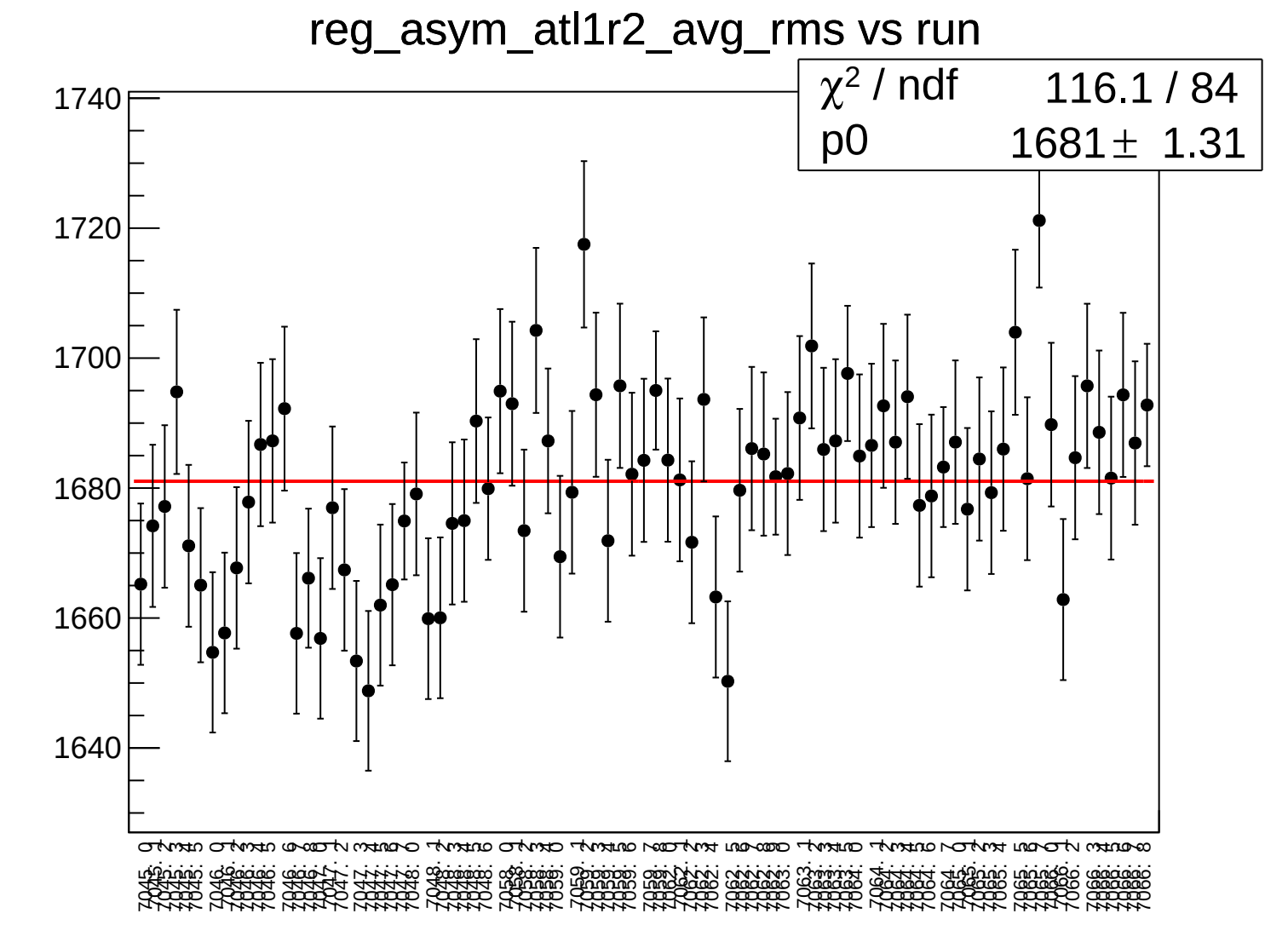

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.87 / 84
p0 −5.693e−15 ± 1.584e−14
pull
Entries 85
Mean −374.9
Std Dev 0

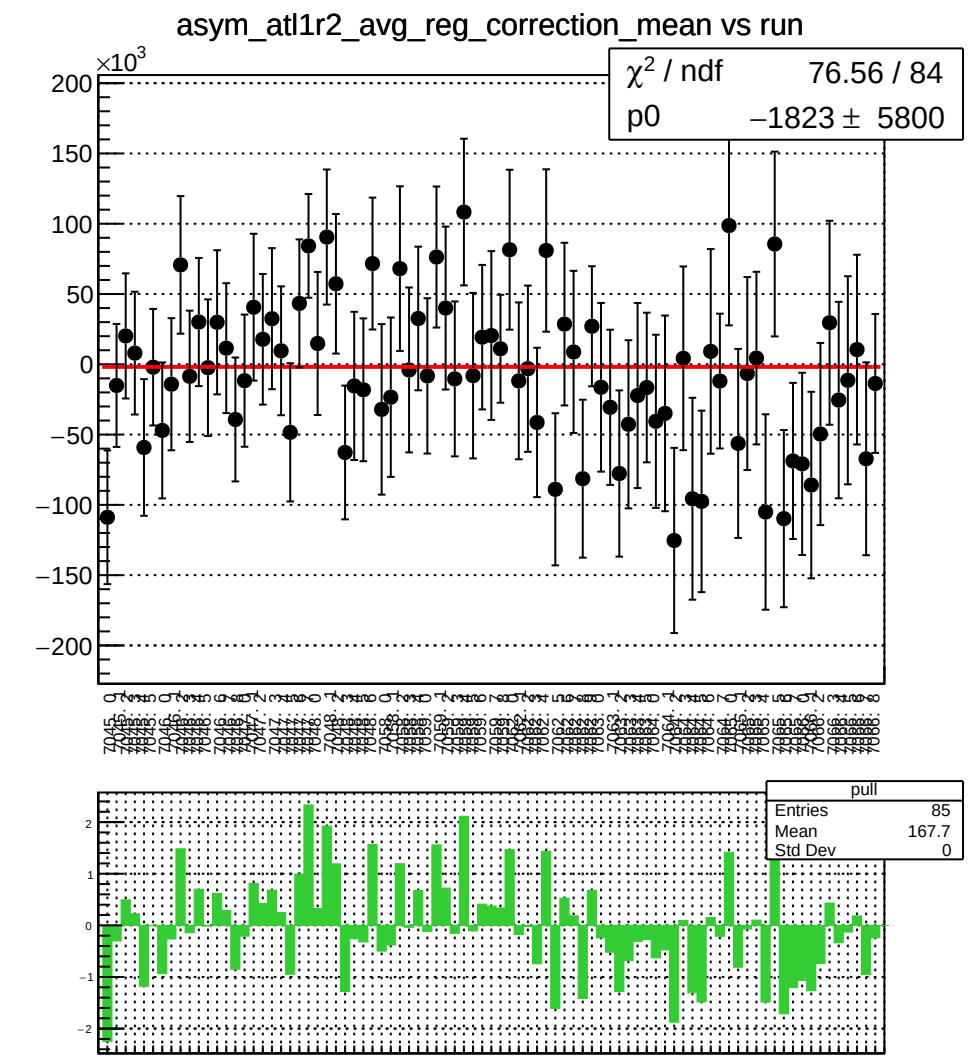

pull1D
Entries 85
Mean −0.006909
Std Dev 1.017

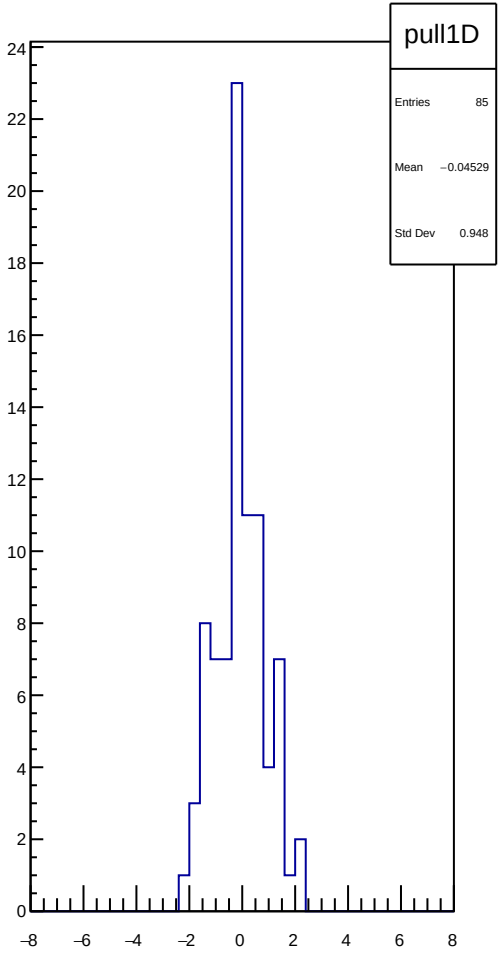

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.647e+05 / 84
p0 1.218e−11 ± 1.12e−14
80
70
60
50
40
30
20
10

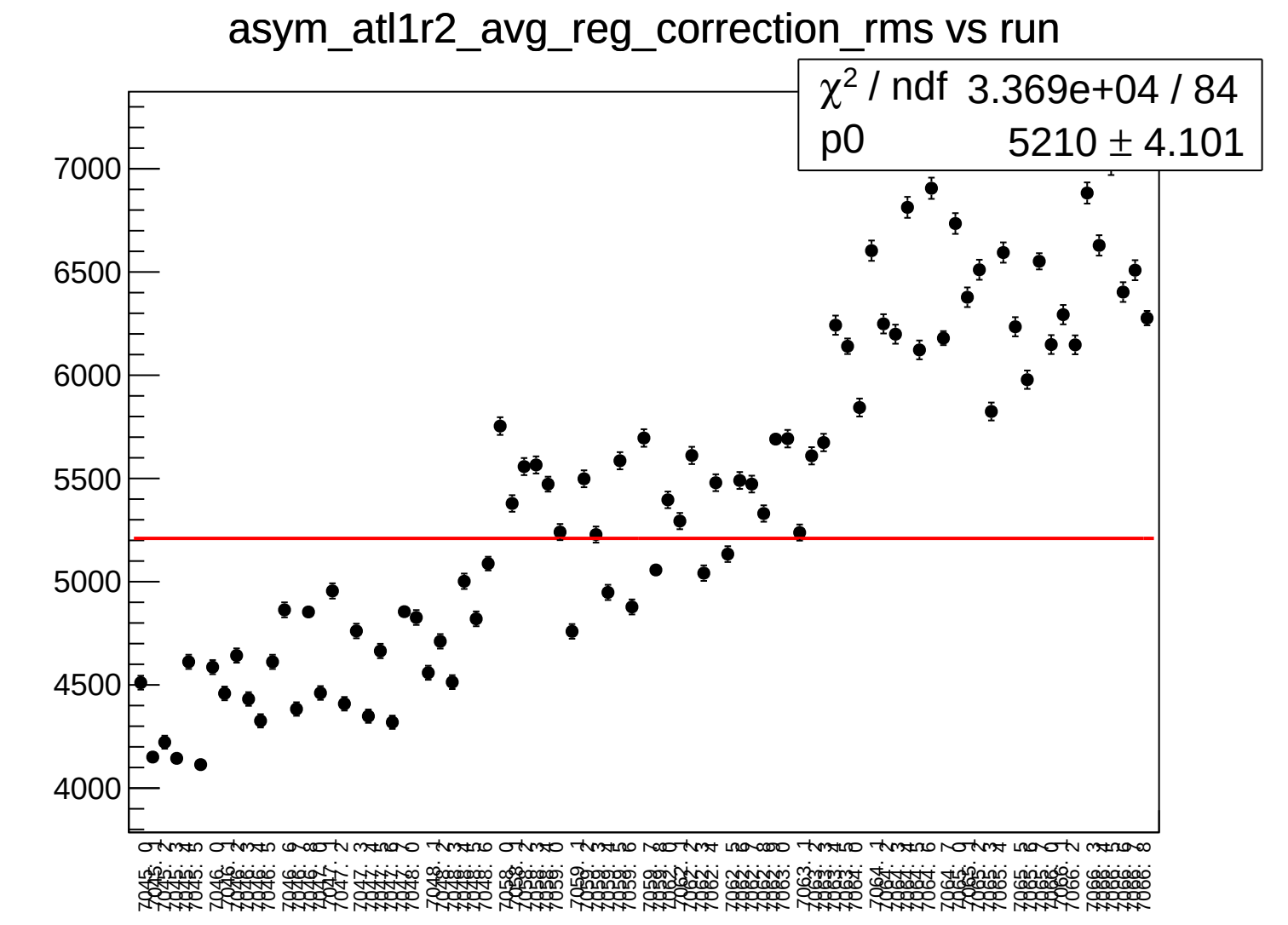

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 97.85 / 84
p0 1526 ± 1852
pull
Entries 85
Mean 1015
Std Dev 0

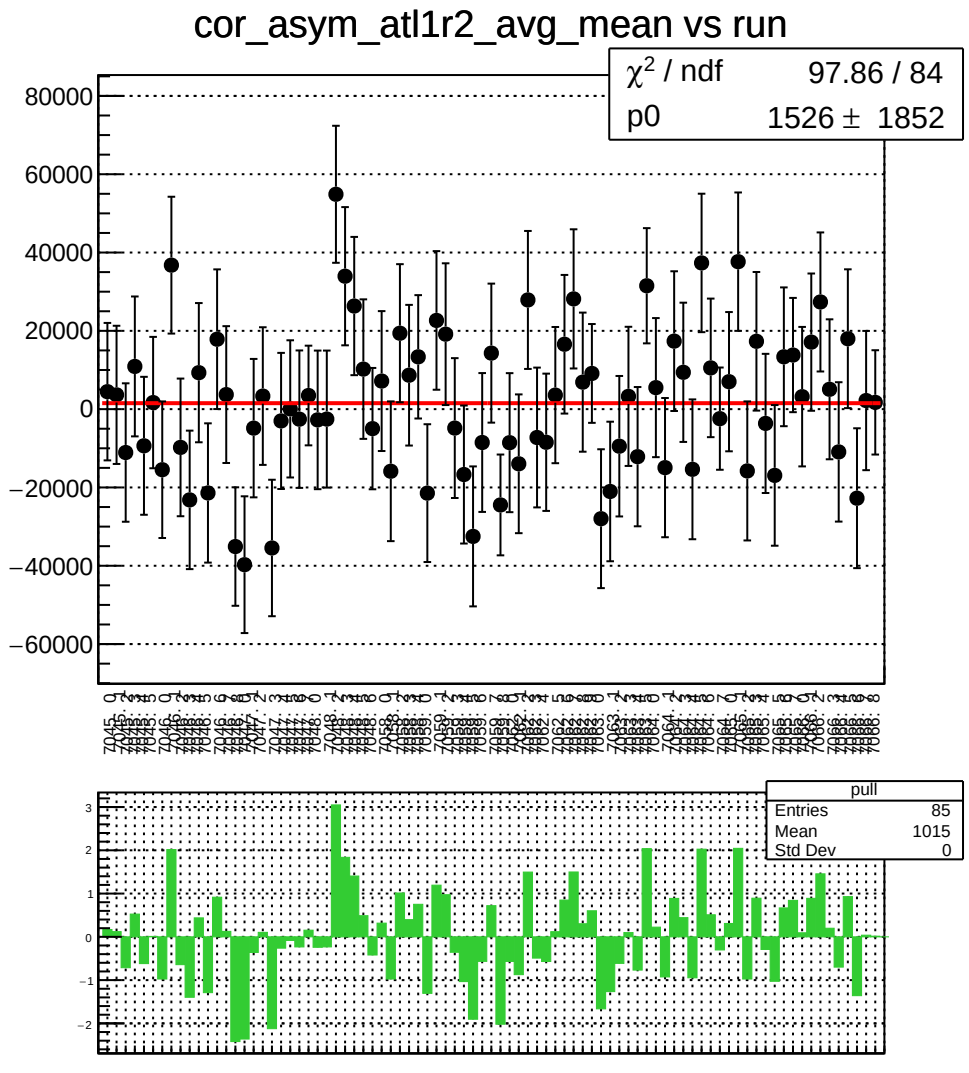

pull1D
Entries 85
Mean 0.003793
Std Dev 1.073

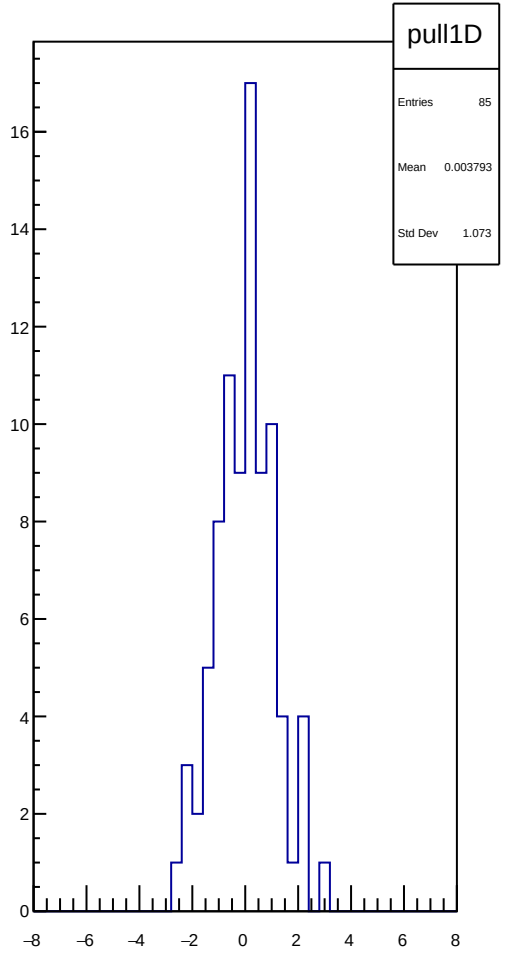

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 116.1 / 84
p0 1681 ± 1.31
1740
1720
1700
1680
1660
1640

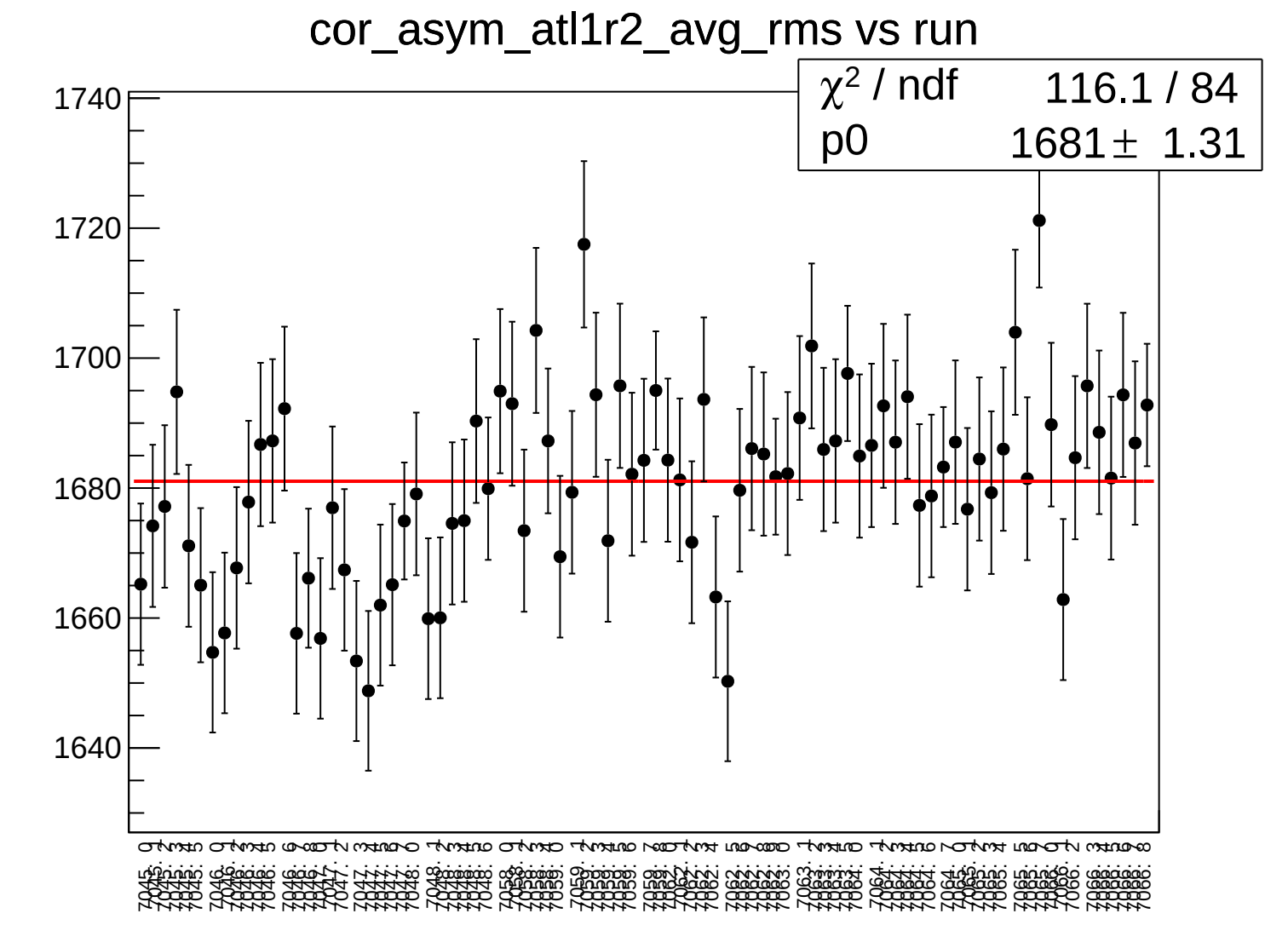

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.56 / 84
p0 −1823 ± 5800
pull
Entries 85
Mean 167.7
Std Dev 0

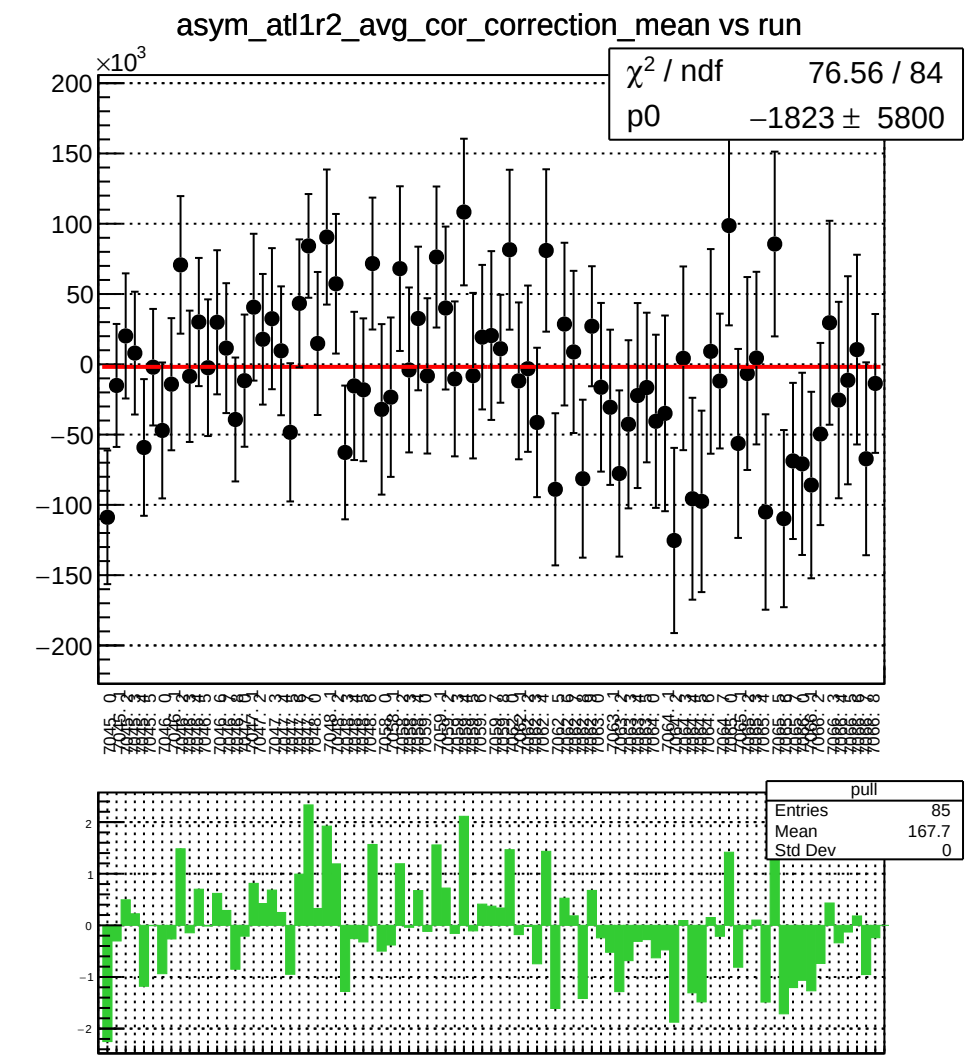

pull1D
Entries 85
Mean −0.04529
Std Dev 0.948

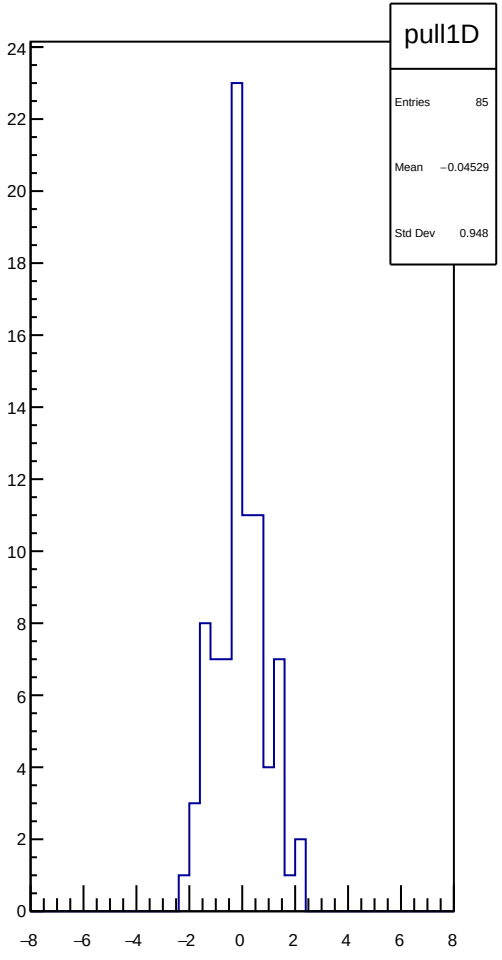

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3.369e+04 / 84
p0 5210 ± 4.101
7000
6500
6000
5500
5000
4500
4000

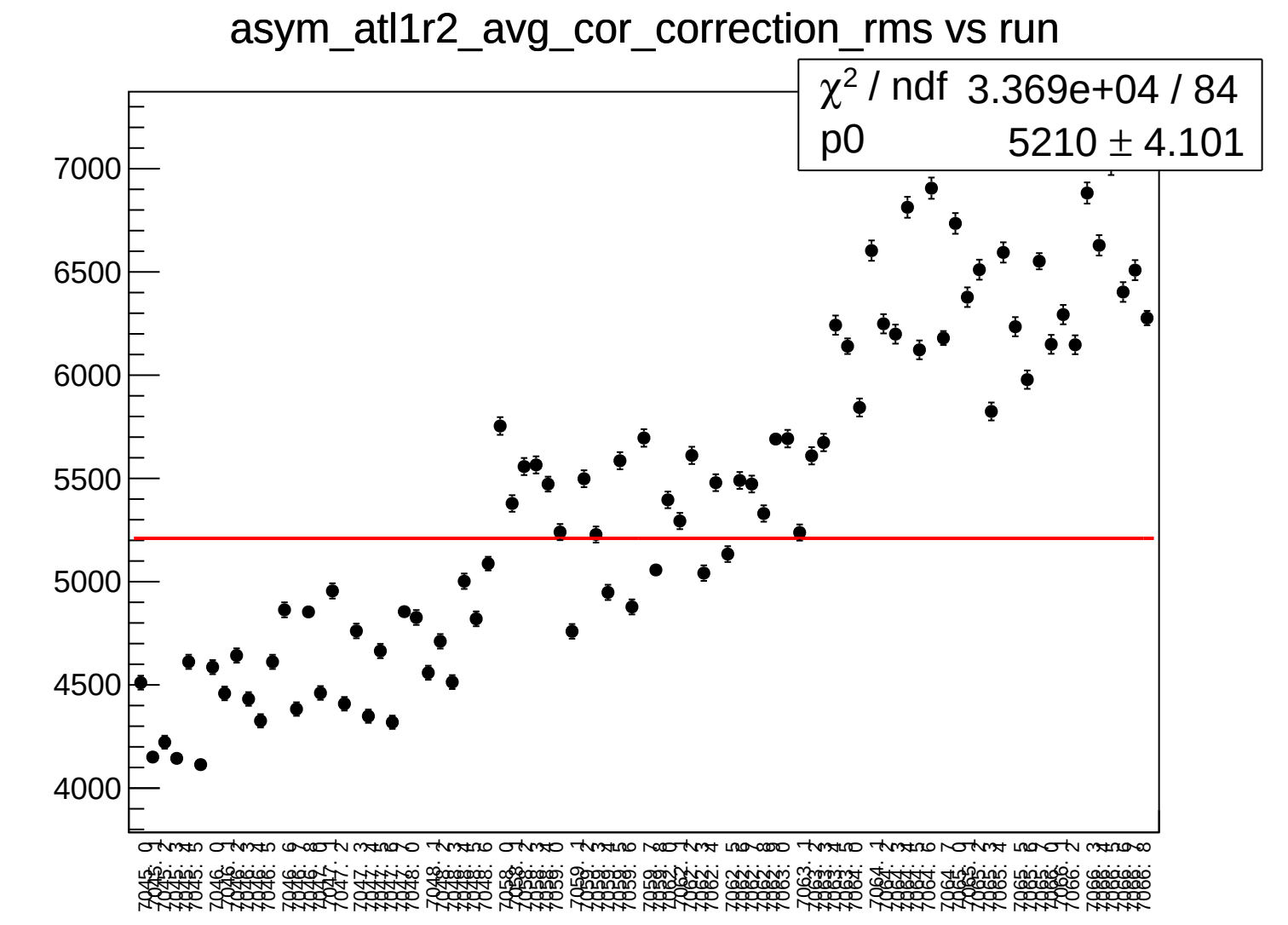

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 97.86 / 84
p0 1526 ± 1852
pull
Entries 85
Mean 1015
Std Dev 0

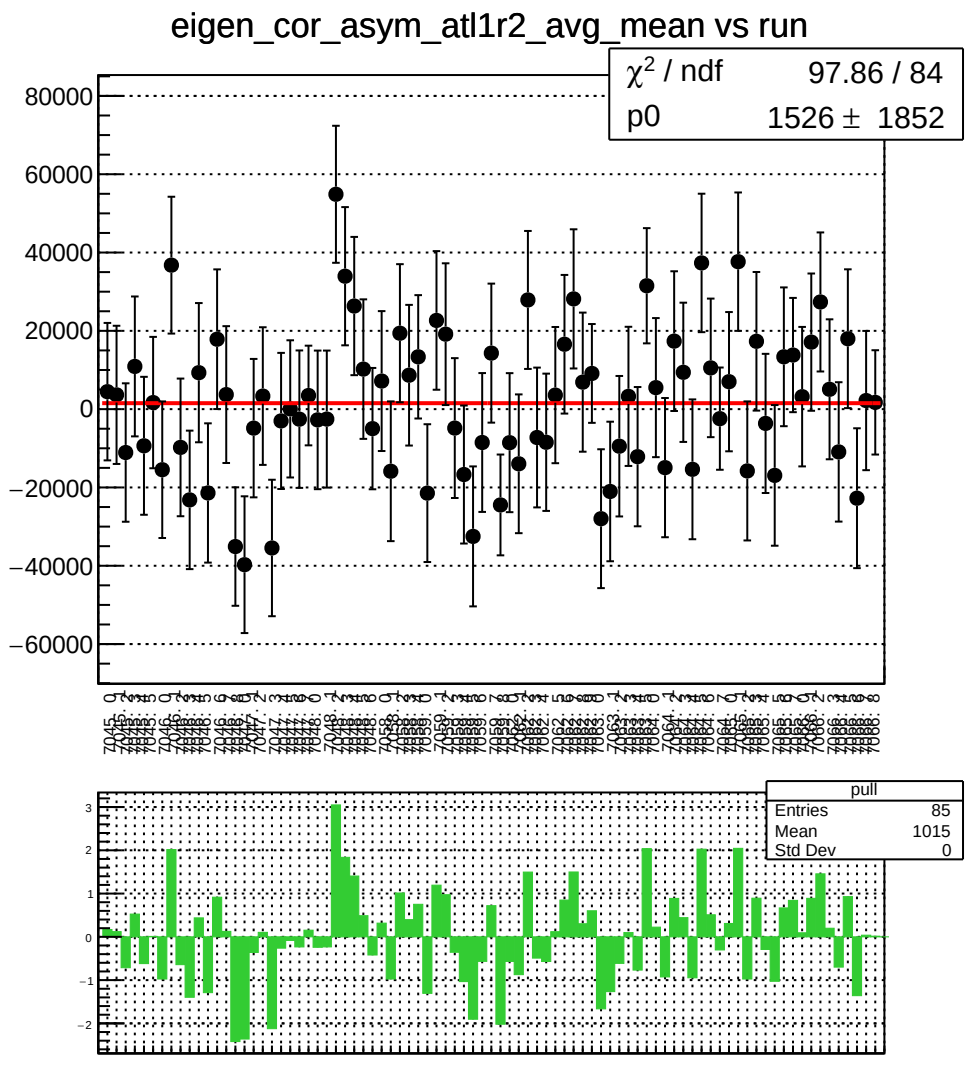

pull1D
Entries 85
Mean 0.003793
Std Dev 1.073

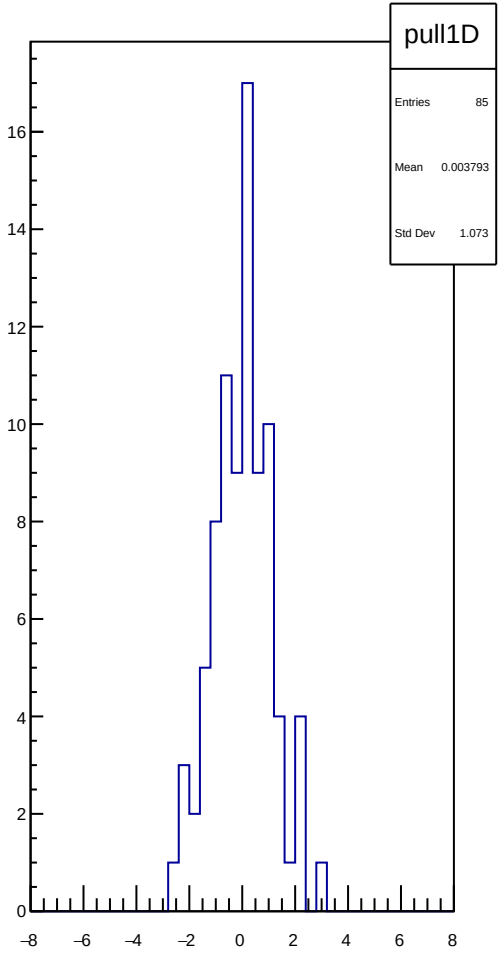

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 116.1 / 84
p0 1681 ± 1.31
1740
1720
1700
1680
1660
1640

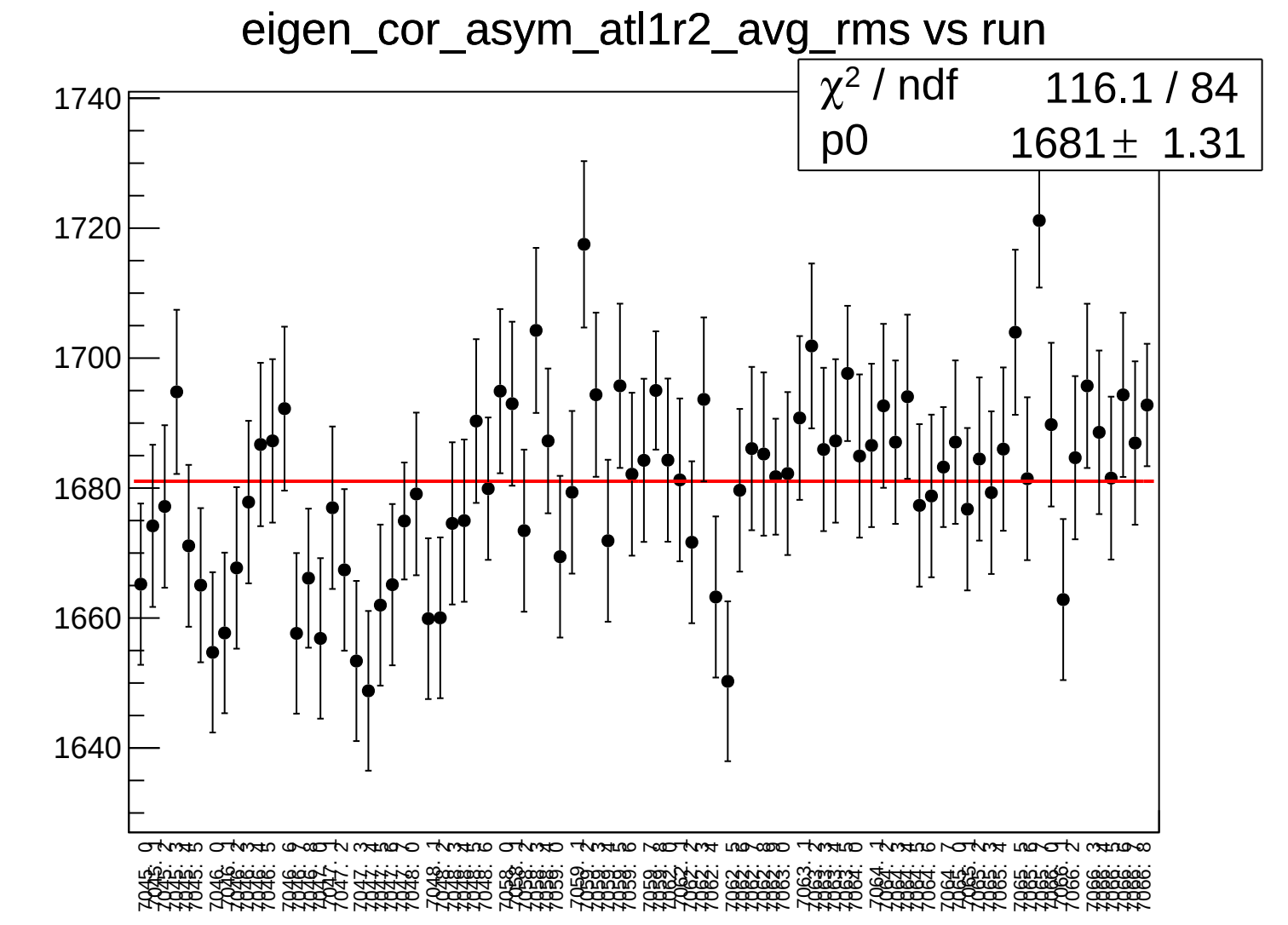

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.56 / 84
p0 −1823 ± 5800
pull
Entries 85
Mean 167.7
Std Dev 0

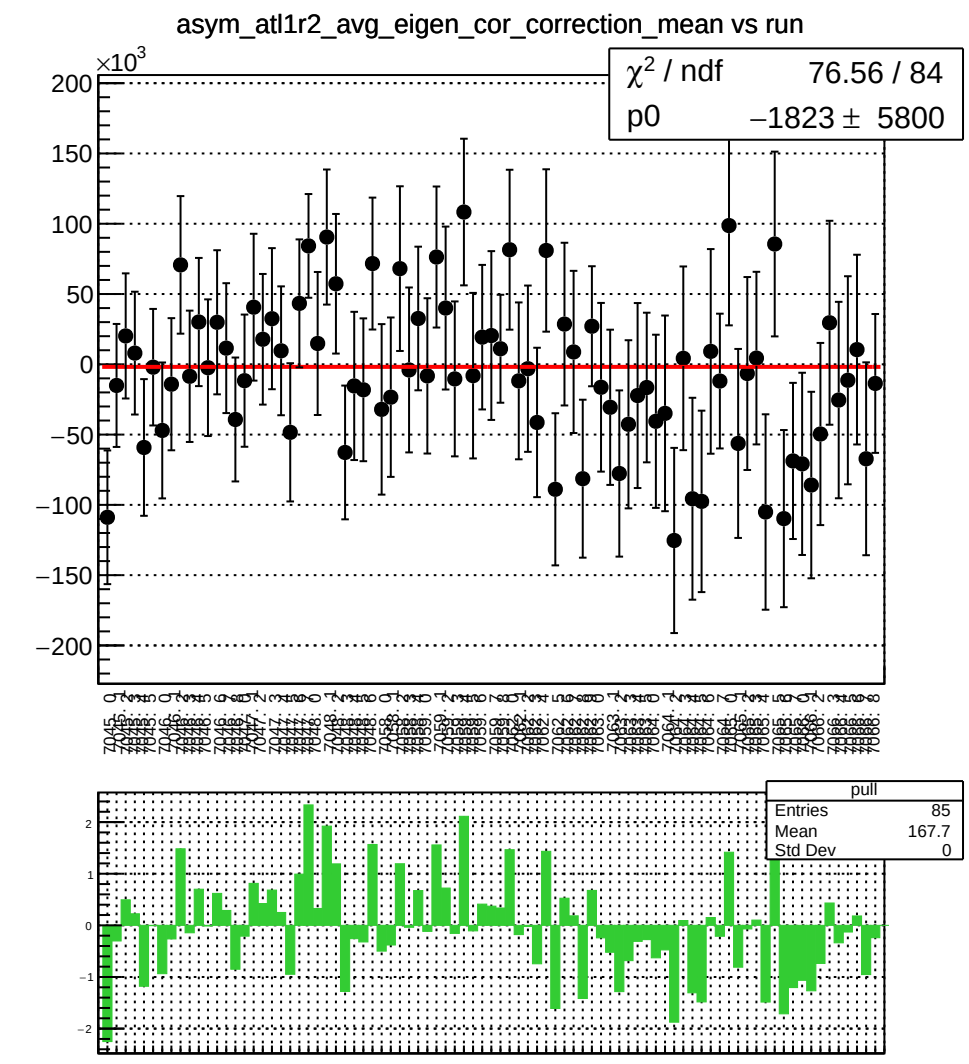

pull1D
Entries 85
Mean −0.04529
Std Dev 0.948

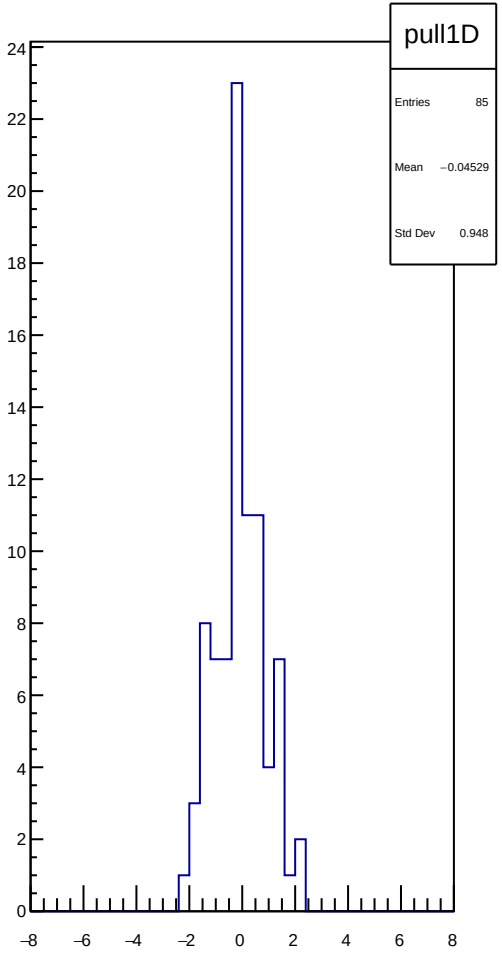

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3.369e+04 / 84
p0 5210 ± 4.101
7000
6500
6000
5500
5000
4500
4000

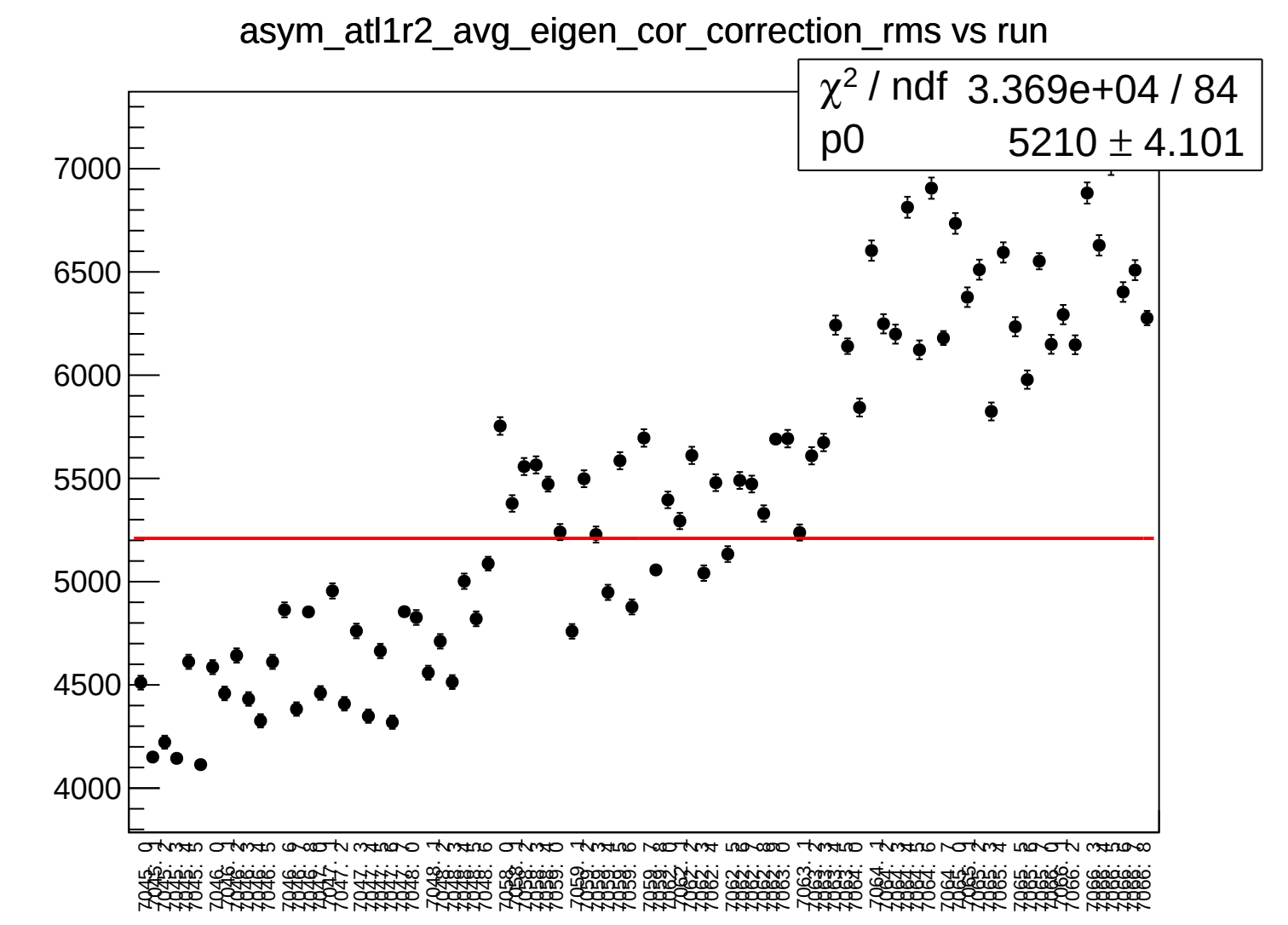

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 97.86 / 84
p0 1526 ± 1852
pull
Entries 85
Mean 1015
Std Dev 0

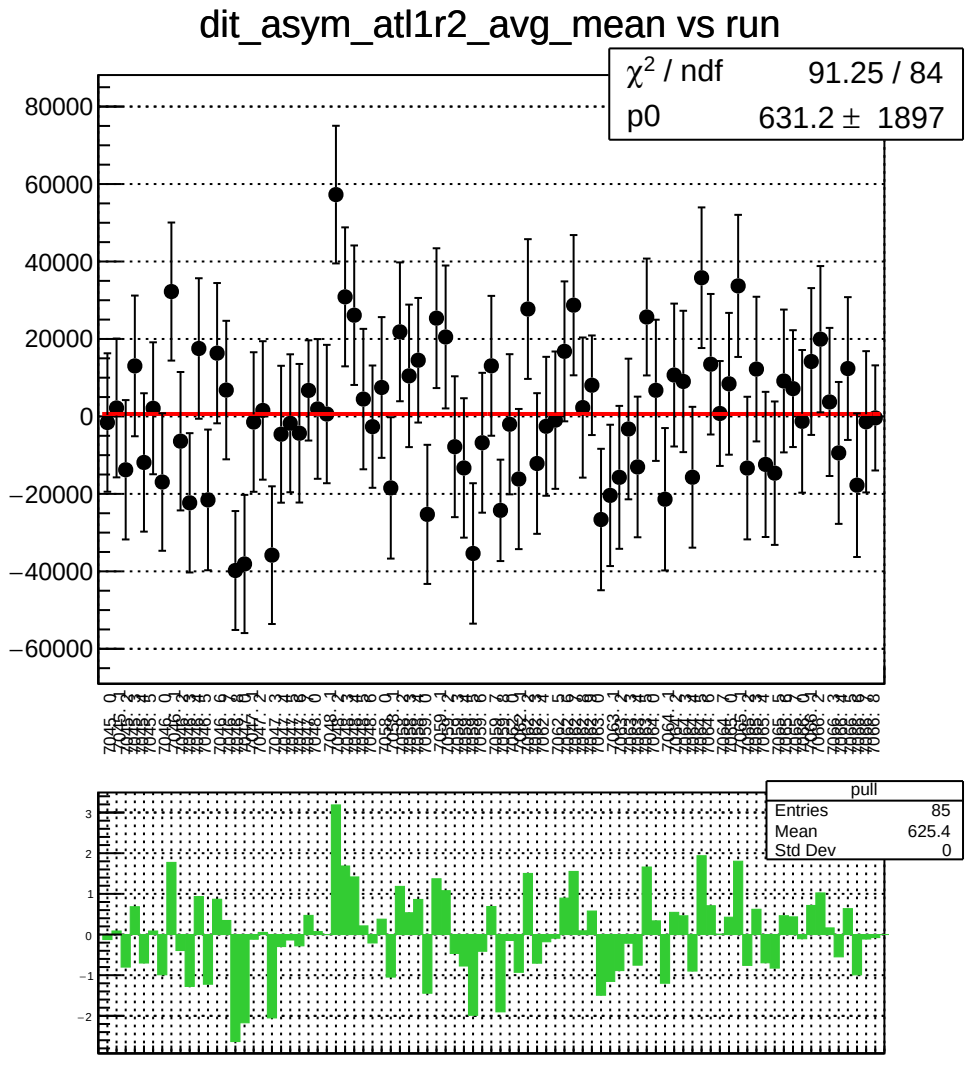

pull1D
Entries 85
Mean 0.003793
Std Dev 1.073

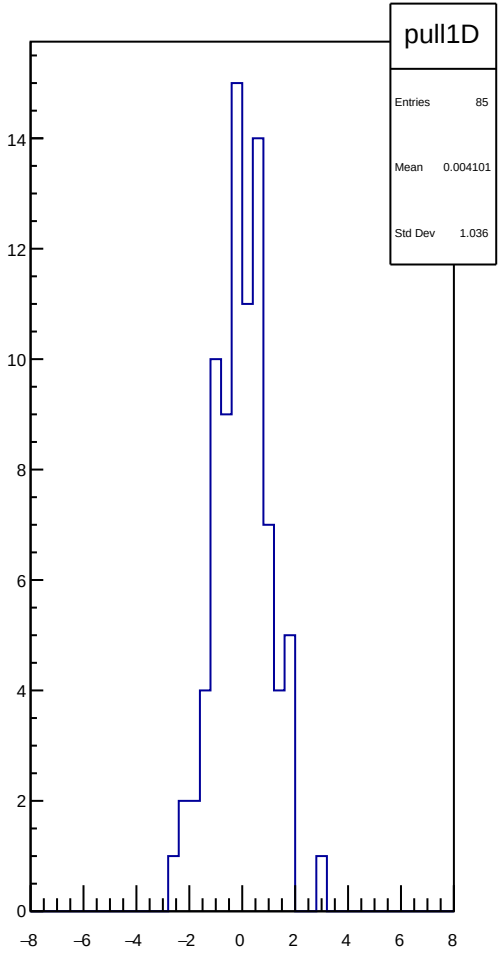

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 116.1 / 84
p0 1681 ± 1.31
1740
1720
1700
1680
1660
1640

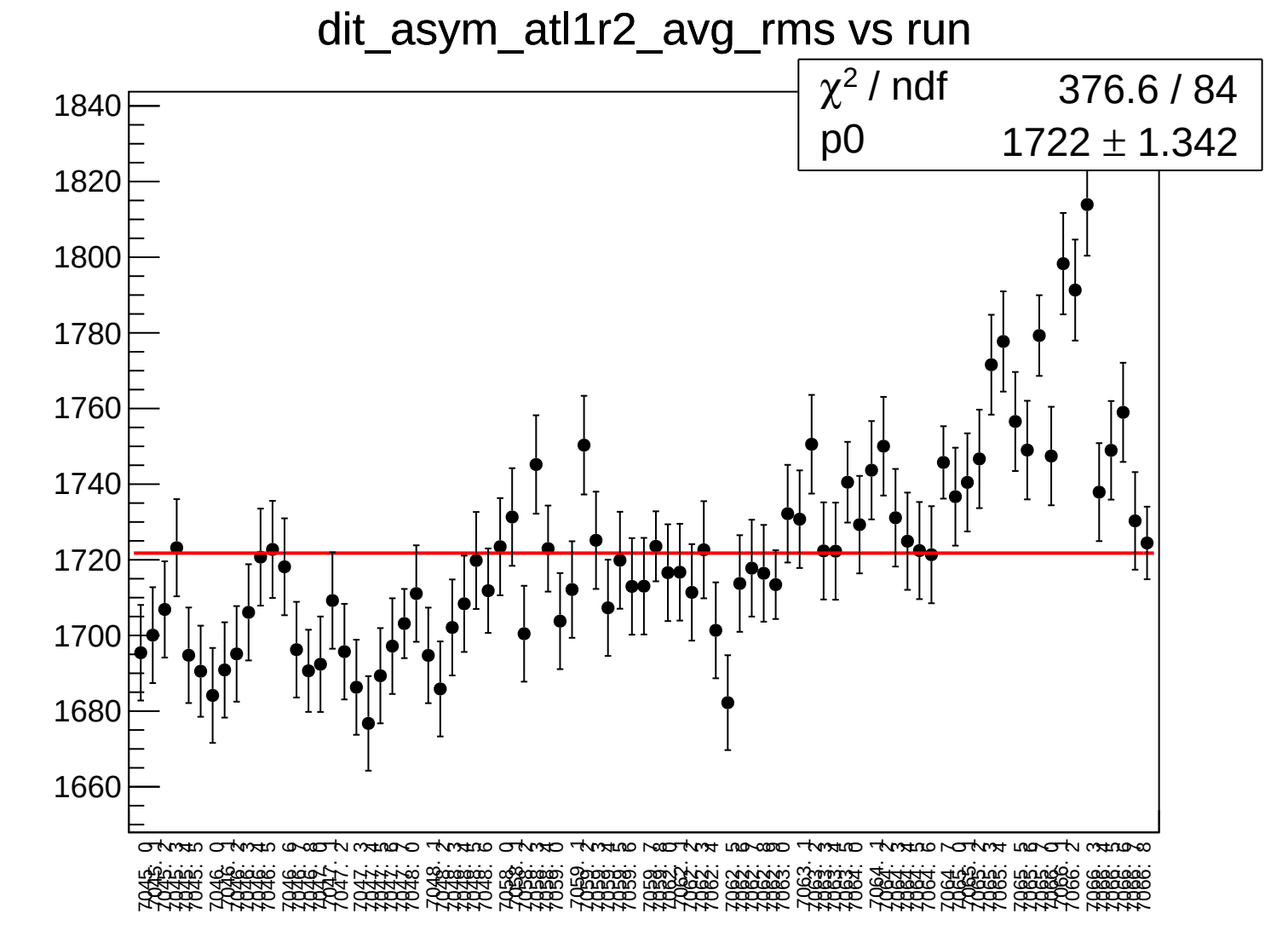

asym_atl1r2_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.56 / 84
p0 −1823 ± 5800
×10³
pull
Entries 85
Mean 167.7
Std Dev 0

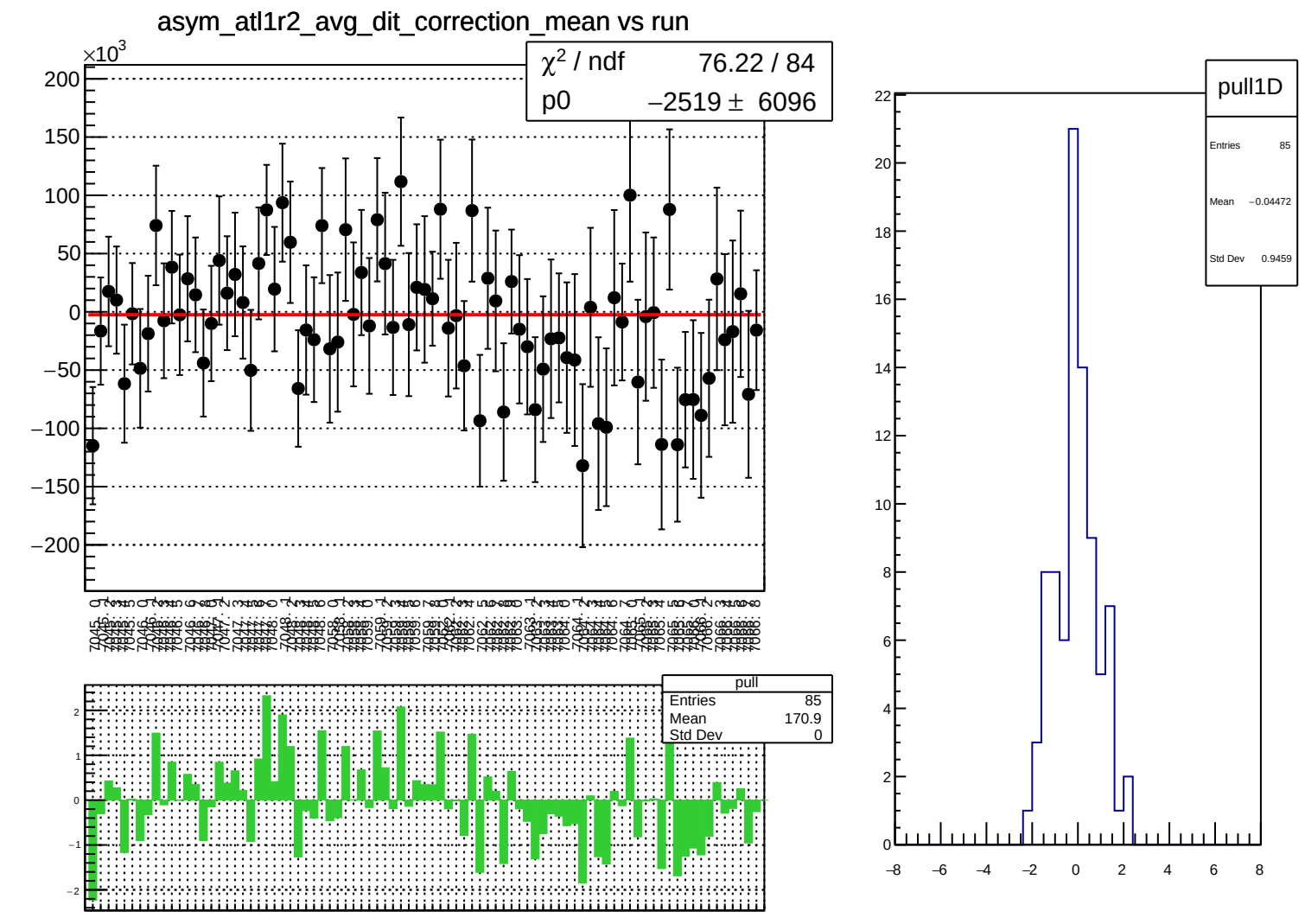

pull1D
Entries 85
Mean −0.04529
Std Dev 0.948

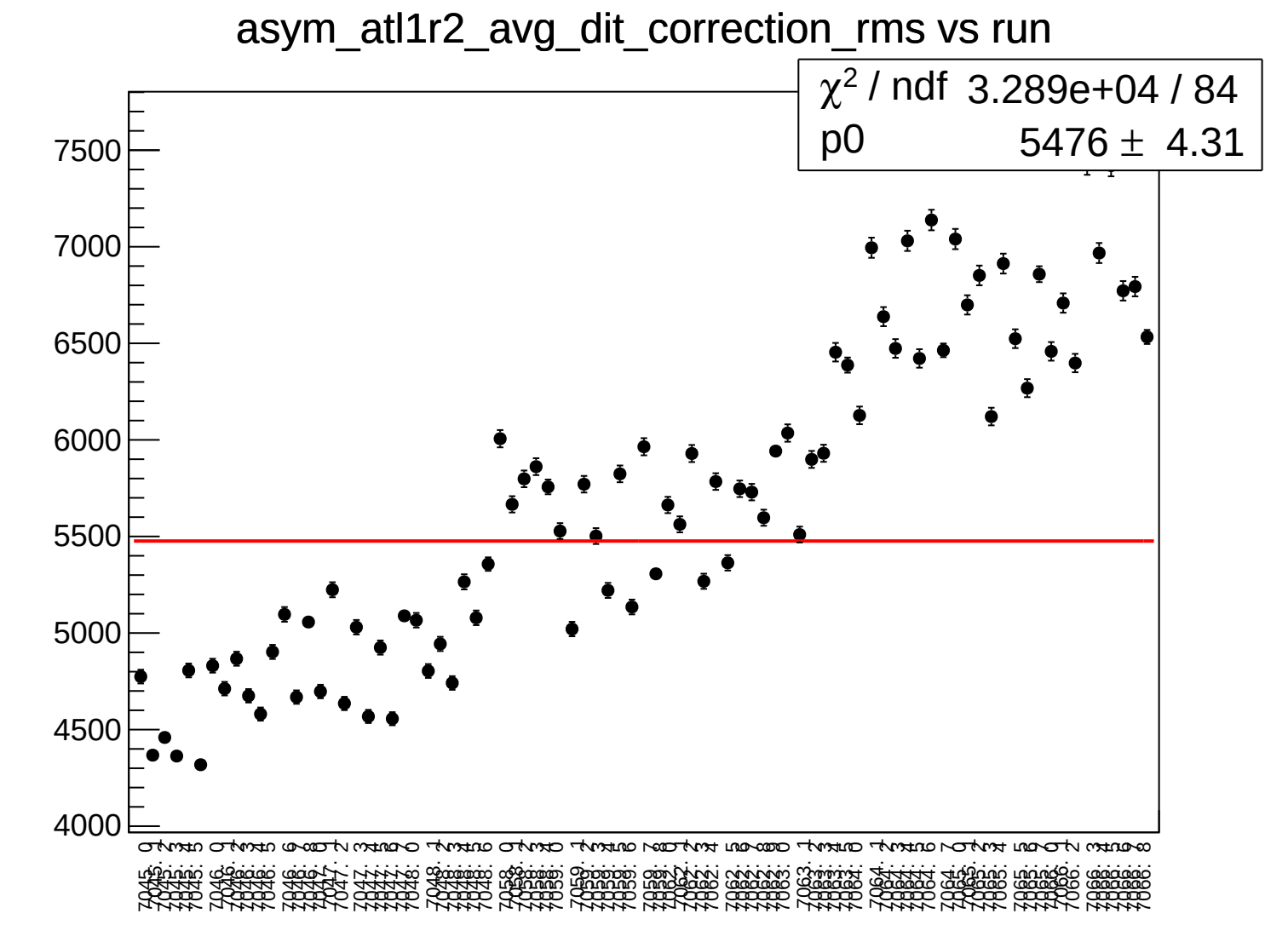

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.369e+04 / 84
p0 5210 ± 4.101
7000
6500
6000
5500
5000
4500
4000

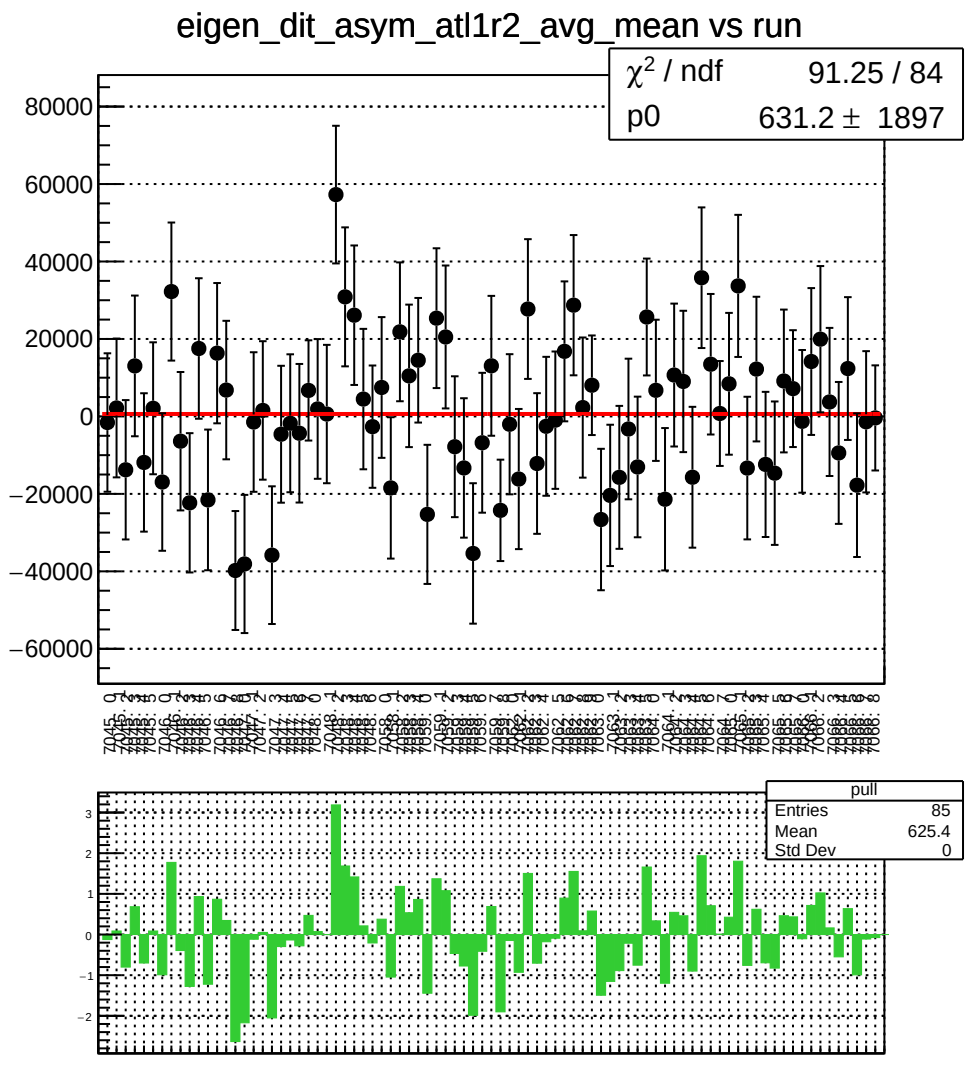

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 91.25 / 84
p0 631.2 ± 1897
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 625.4
Std Dev 0
3
2
1
0
−1
−2

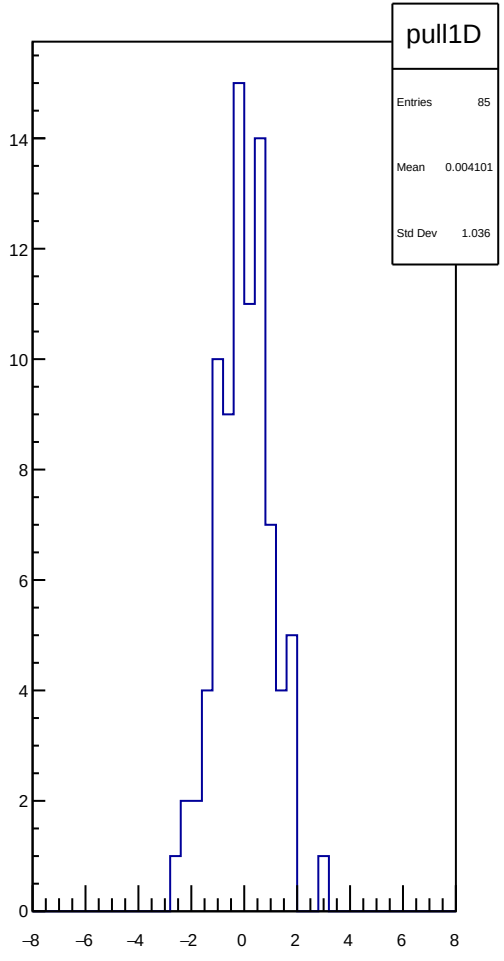

pull1D
Entries 85
Mean 0.004101
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

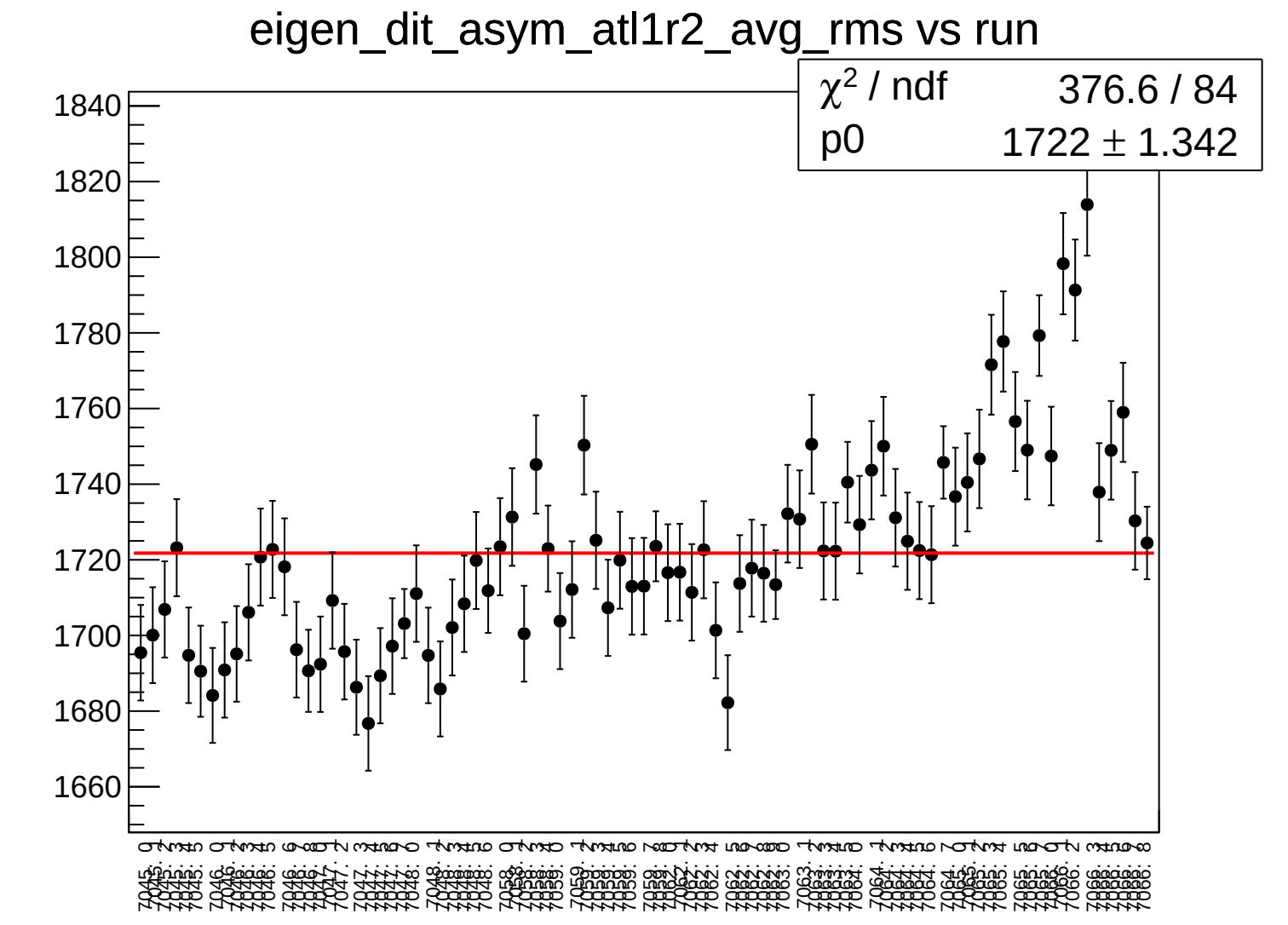

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 376.6 / 84
p0 1722 ± 1.342
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

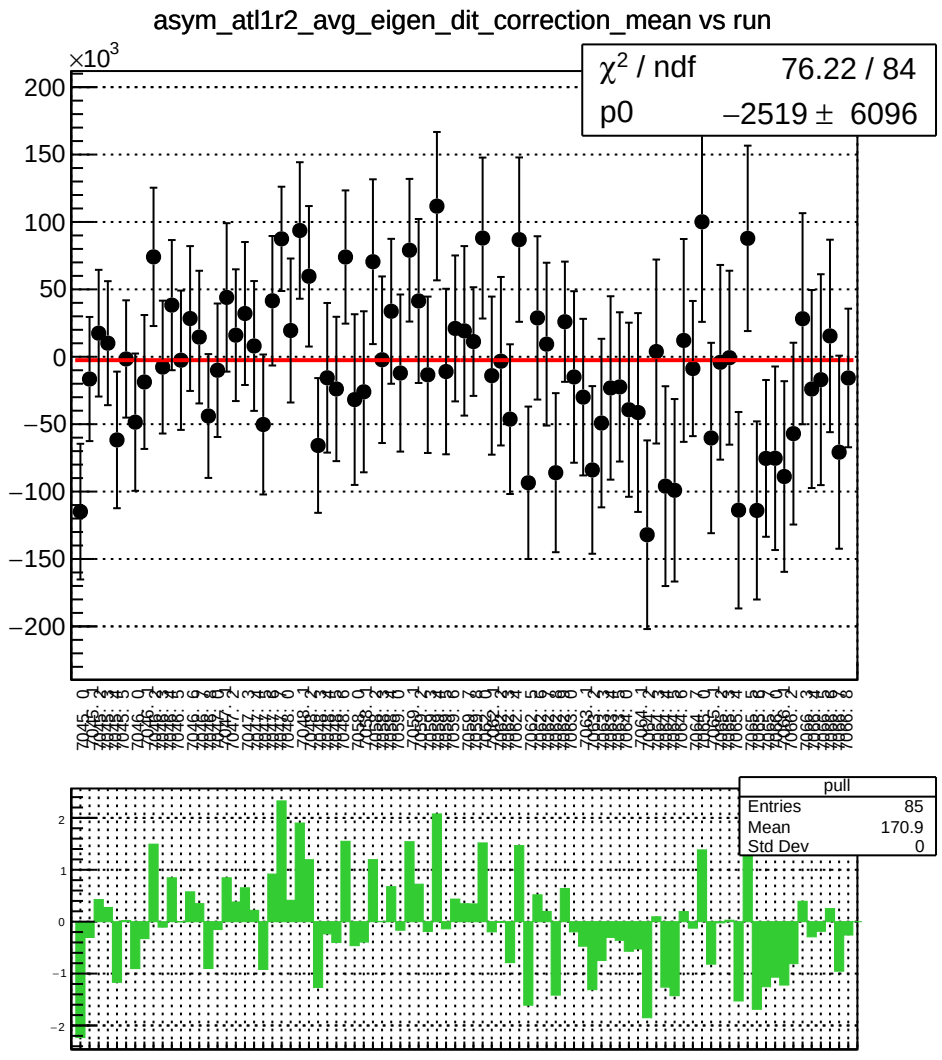

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 76.22 / 84
p0 −2519 ± 6096
pull
Entries 85
Mean 170.9
Std Dev 0
pull1D
Entries 85
Mean −0.04472
Std Dev 0.9459

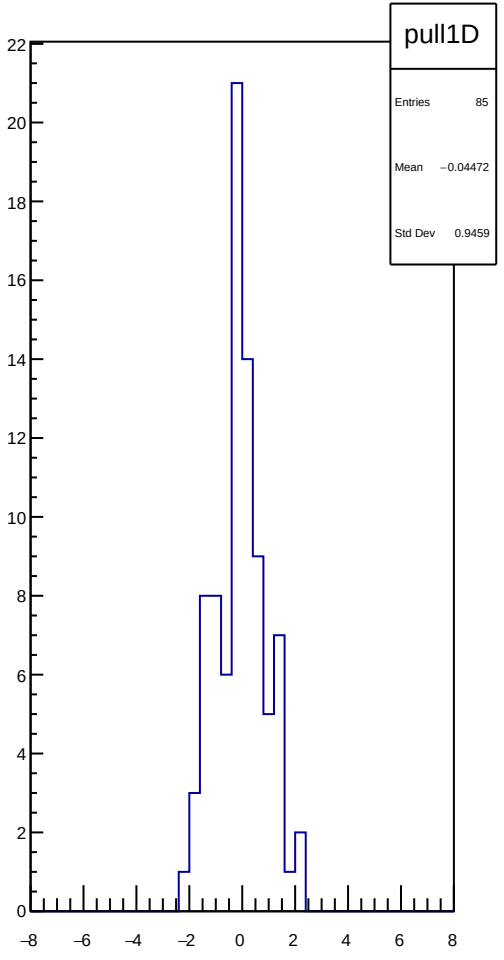

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3.289e+04 / 84
p0 5476 ± 4.31
7500
7000
6500
6000
5500
5000
4500
4000

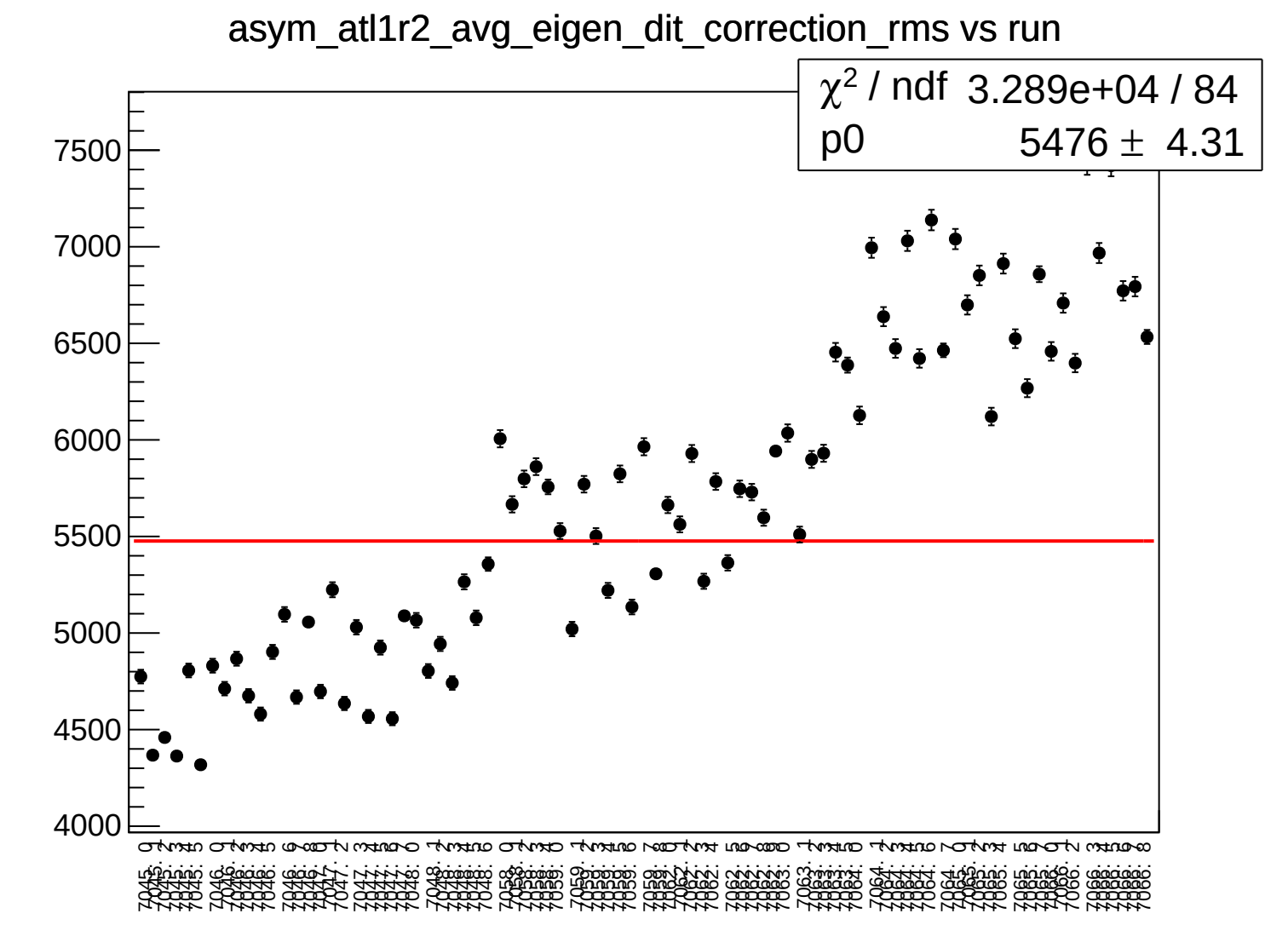

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 91.25 / 84
p0 631.2 ± 1897
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 625.4
Std Dev 0
3
2
1
0
−1
−2

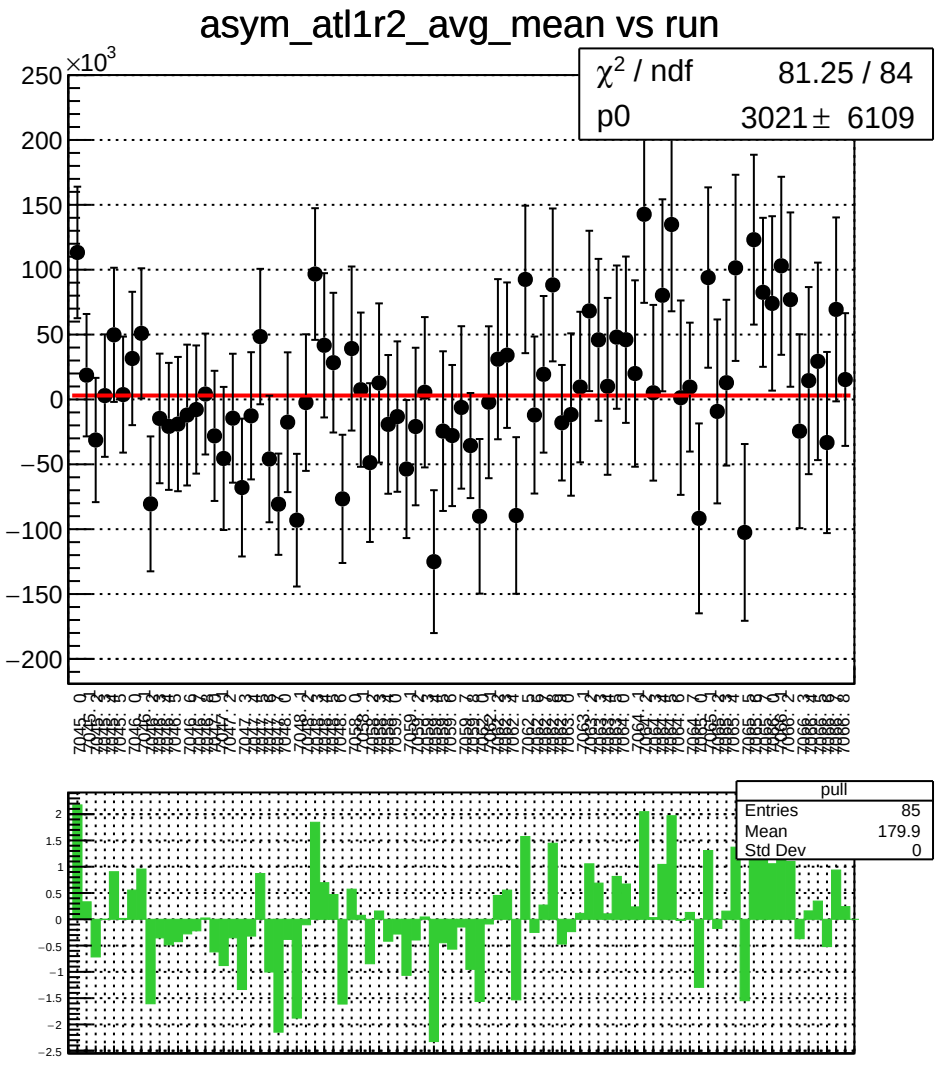

pull1D
Entries 85
Mean 0.004101
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

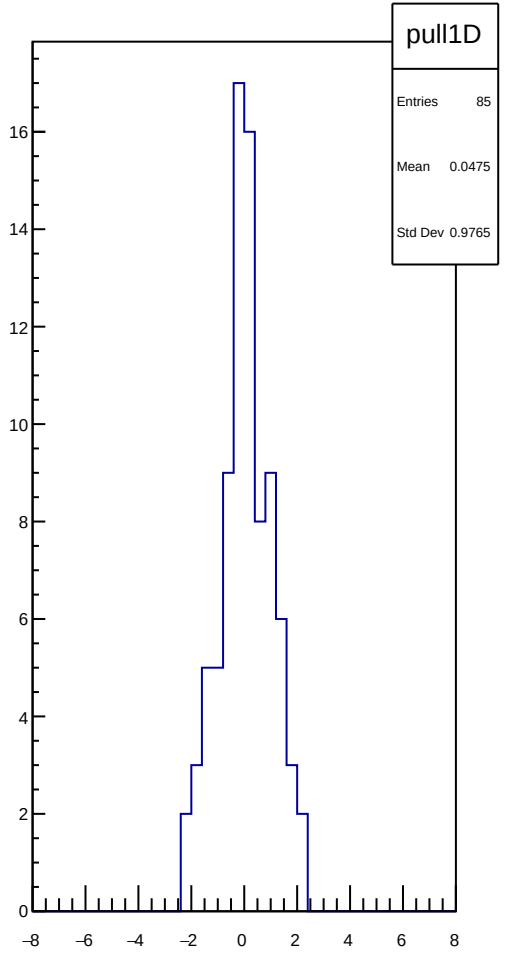

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 376.6 / 84
p0 1722 ± 1.342
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

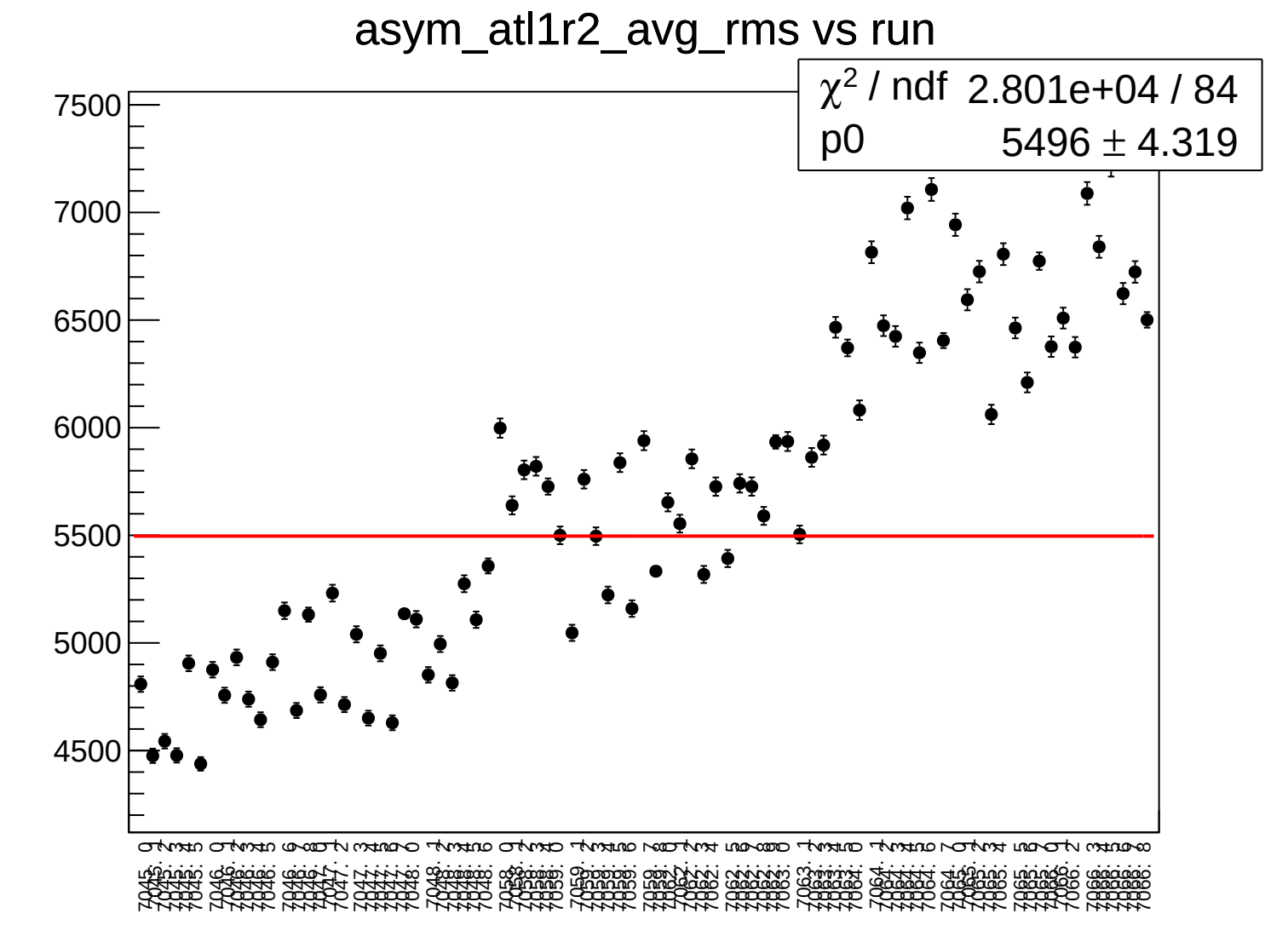

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.22 / 84
p0 −2519 ± 6096
pull
Entries 85
Mean 170.9
Std Dev 0

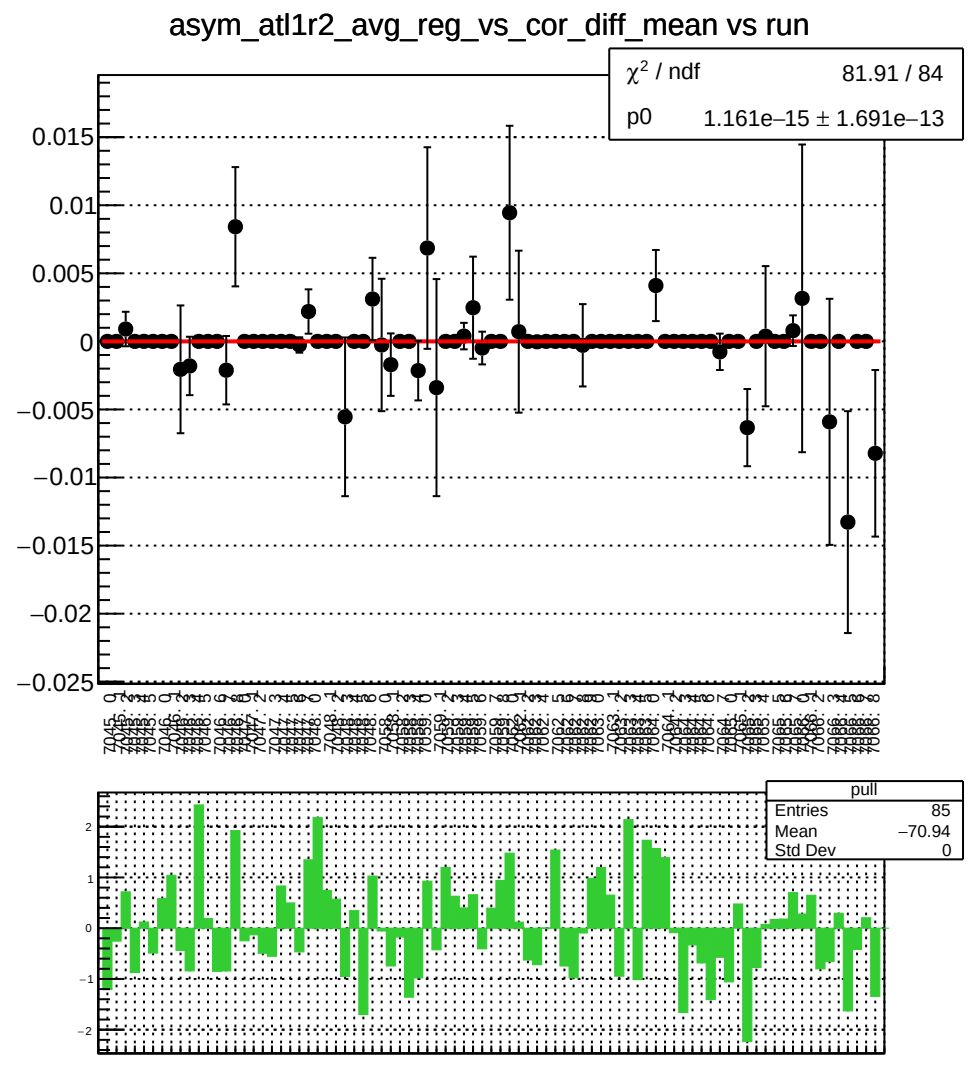

pull1D
Entries 85
Mean −0.04472
Std Dev 0.9459

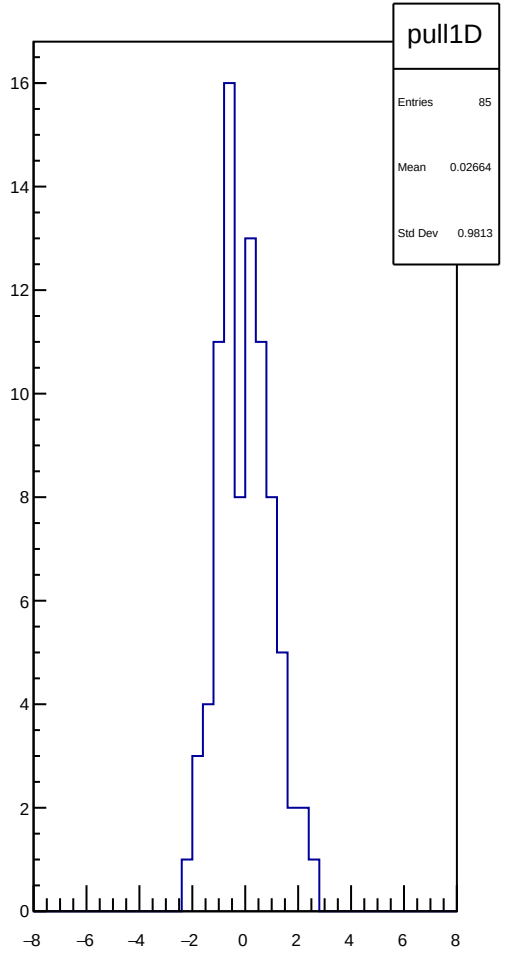

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.289e+04 / 84
p0 5476 ± 4.31
7500
7000
6500
6000
5500
5000
4500
4000

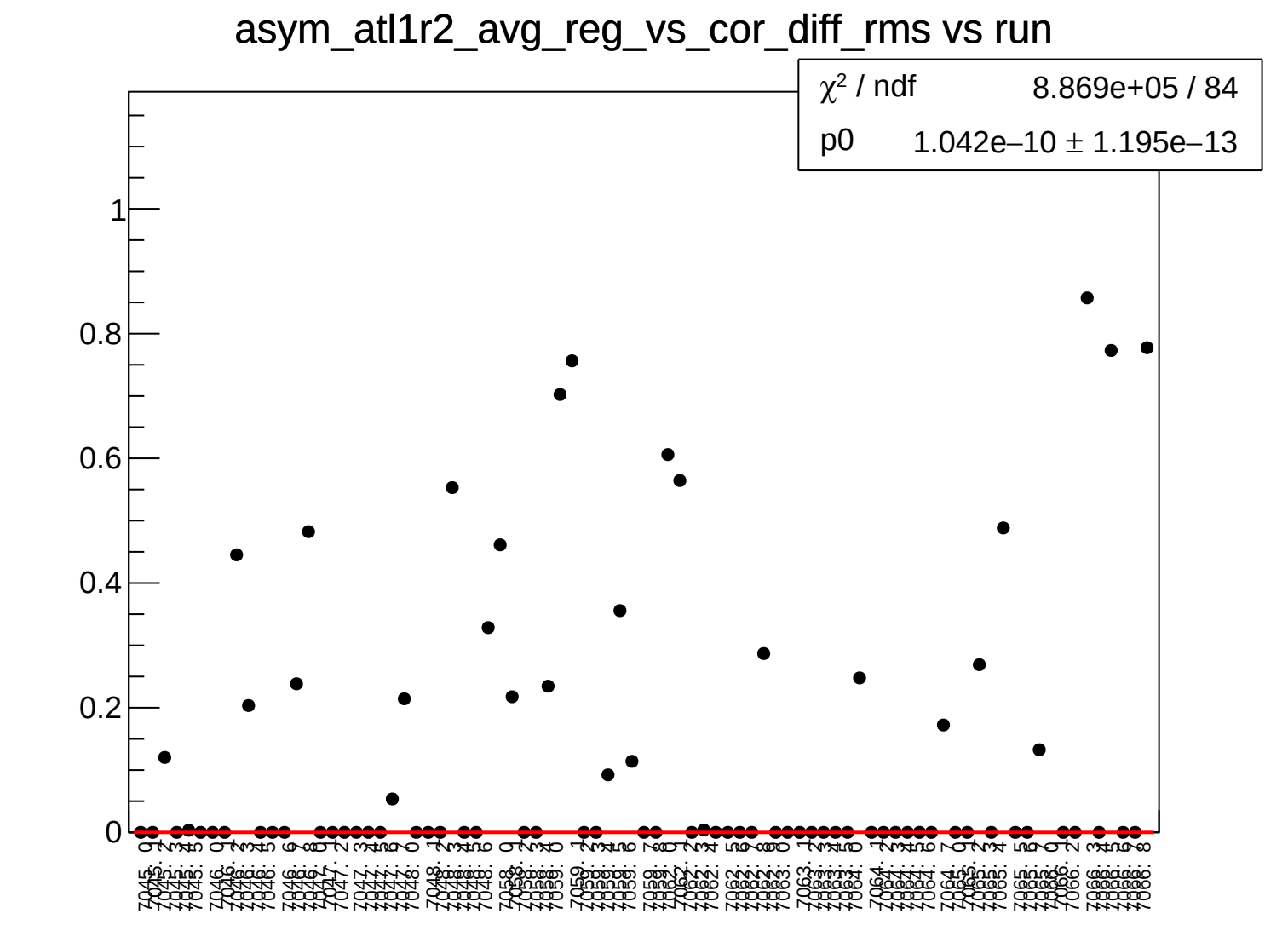

asym_atl1r2_avg_mean vs run
χ² / ndf 81.25 / 84
p0 3021 ± 6109
×10³
pull
Entries 85
Mean 179.9
Std Dev 0

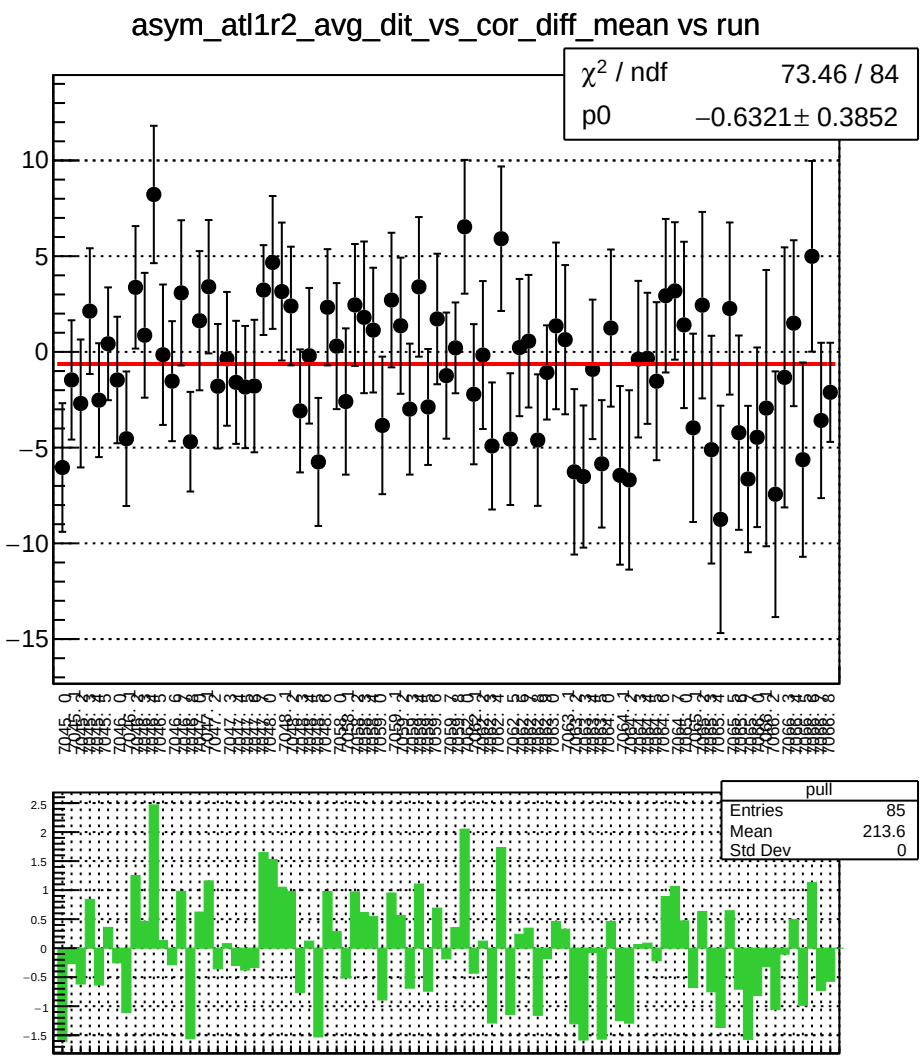

pull1D
Entries 85
Mean 0.0475
Std Dev 0.9765

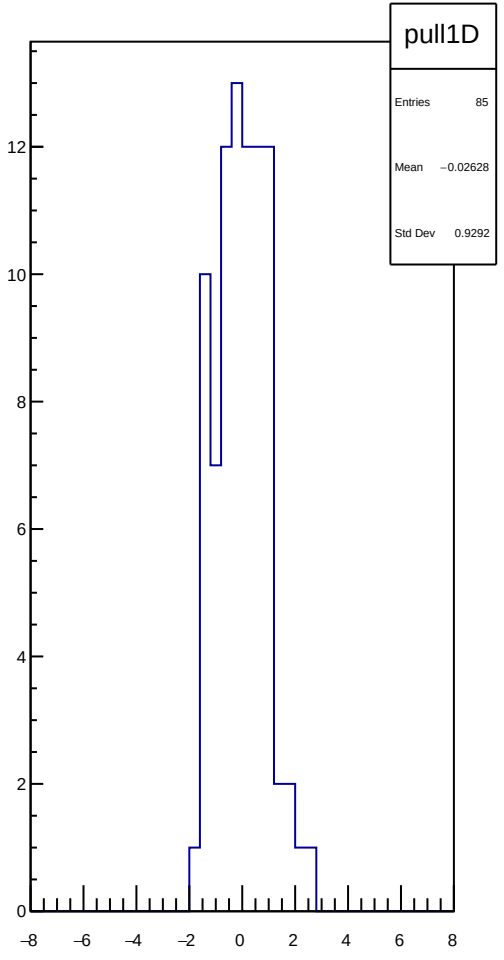

asym_atl1r2_avg_rms vs run
χ^2 / ndf 2.801e+04 / 84
p0 5496 ± 4.319
7500
7000
6500
6000
5500
5000
4500

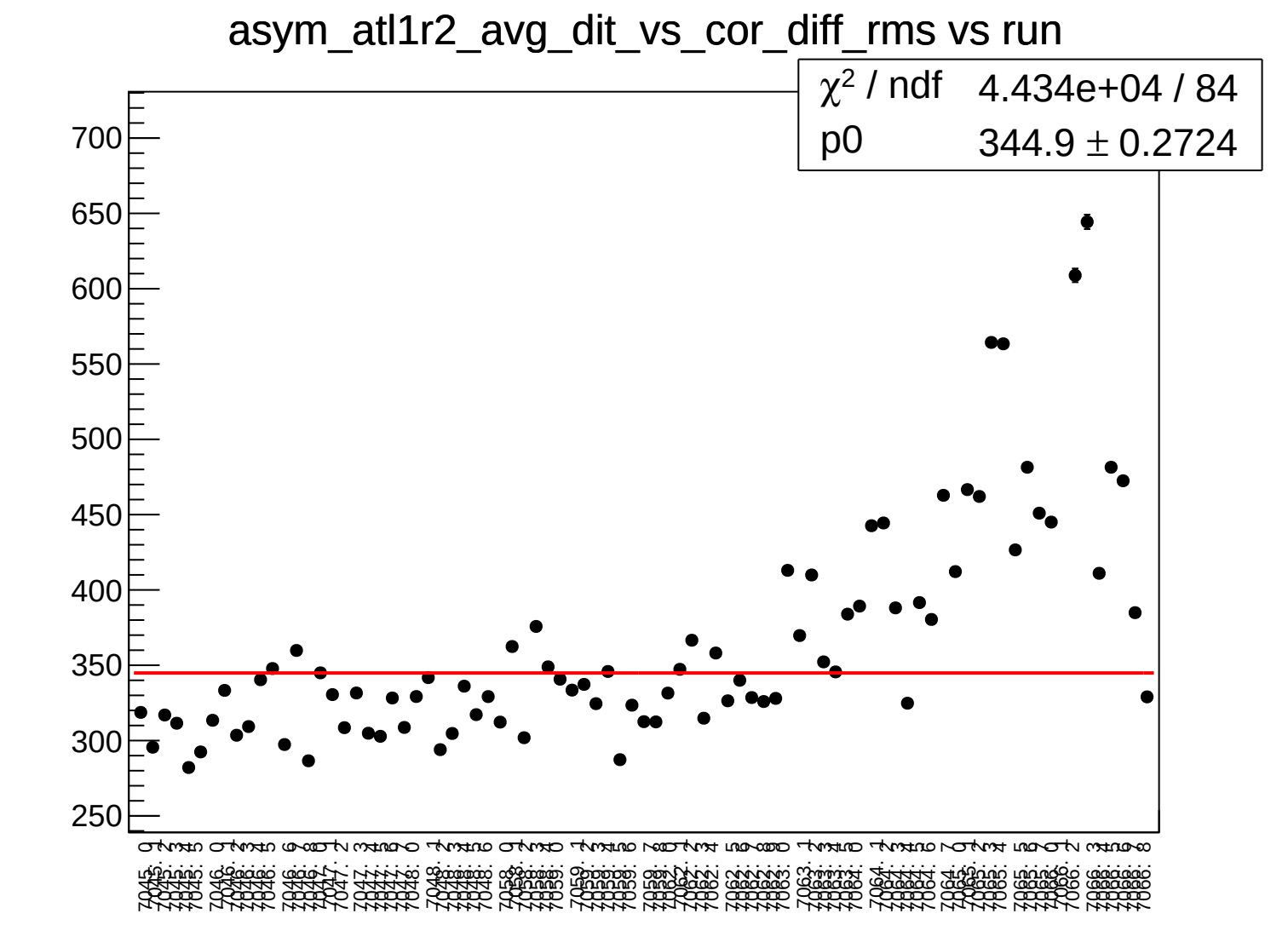

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.91 / 84
p0 1.161e−15 ± 1.691e−13
pull
Entries 85
Mean −70.94
Std Dev 0

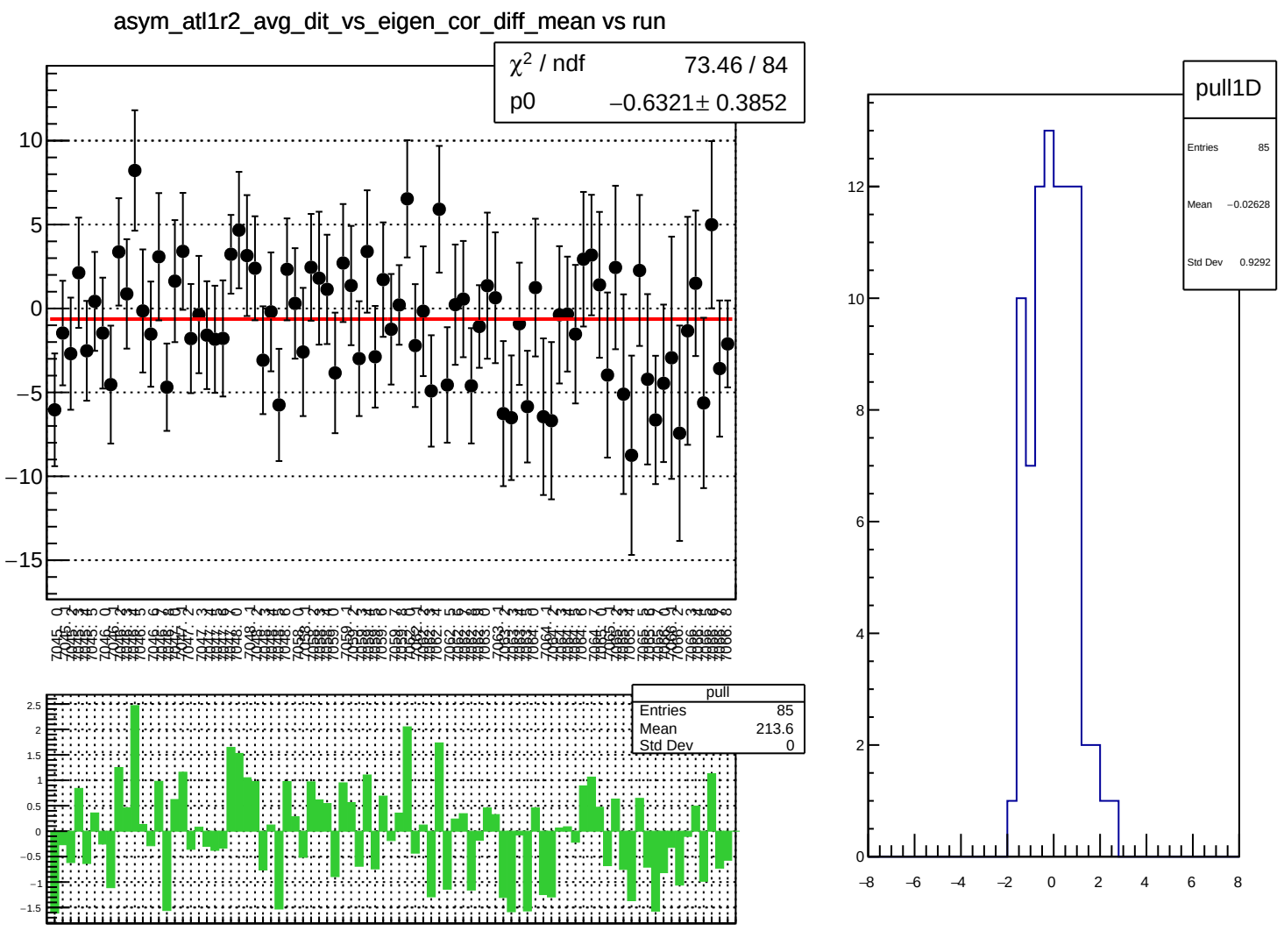

pull1D
Entries 85
Mean 0.02664
Std Dev 0.9813

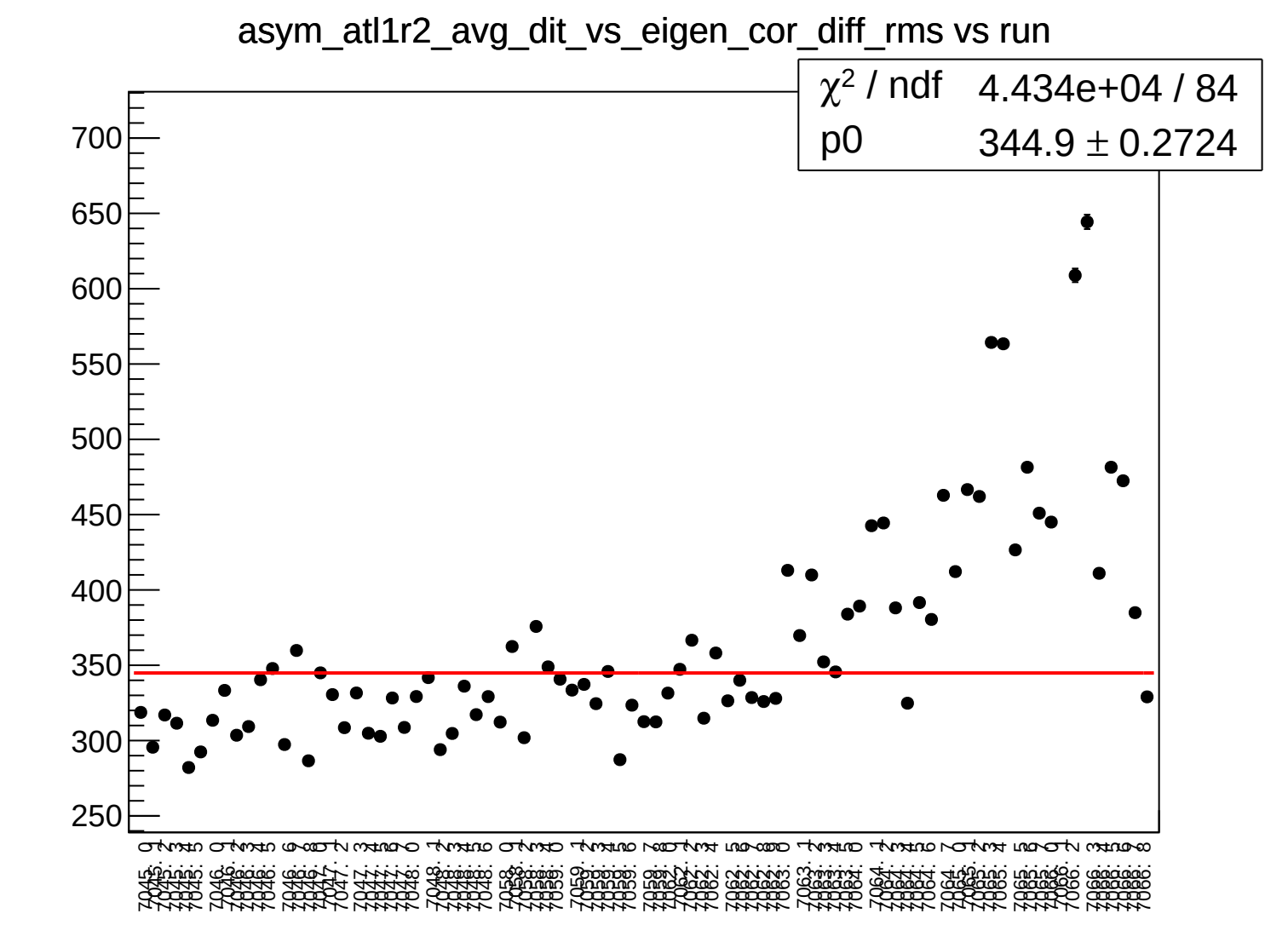

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.869e+05 / 84
p0 1.042e−10 ± 1.195e−13
0
0.2
0.4
0.6
0.8
1

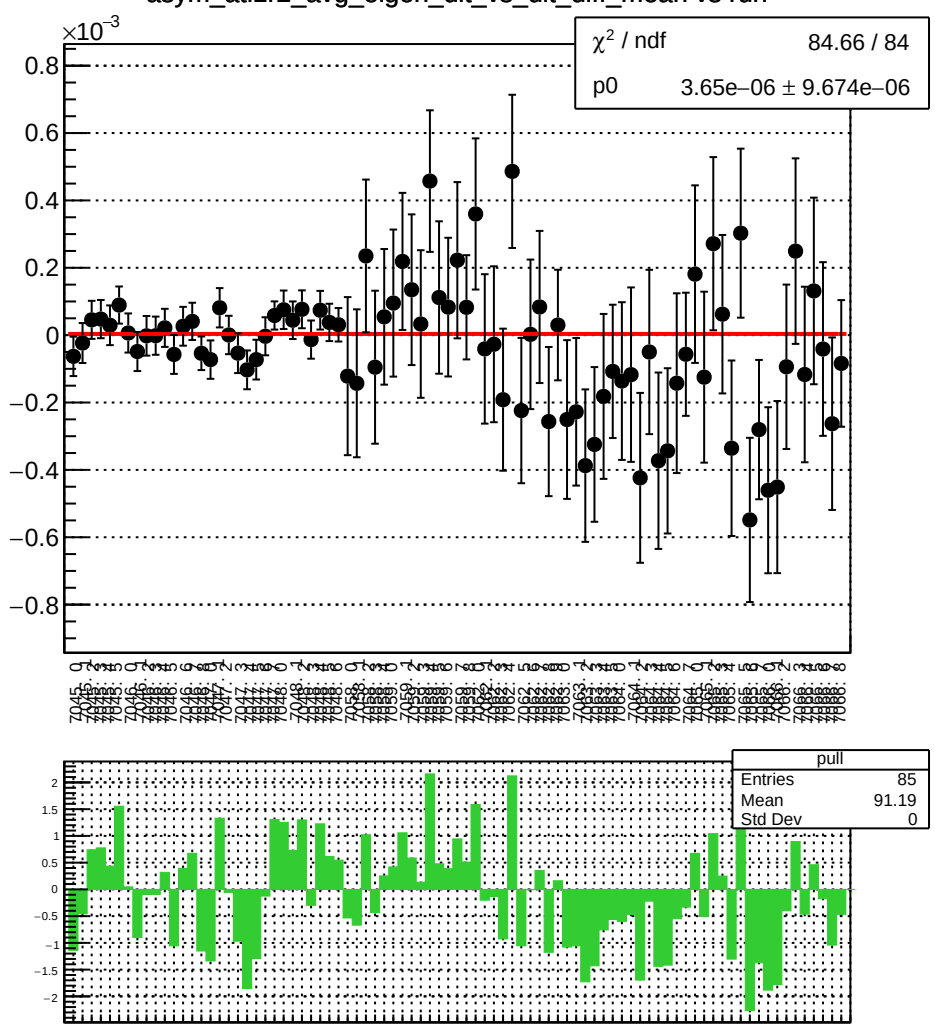

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.46 / 84
p0 −0.6321± 0.3852
pull
Entries 85
Mean 213.6
Std Dev 0

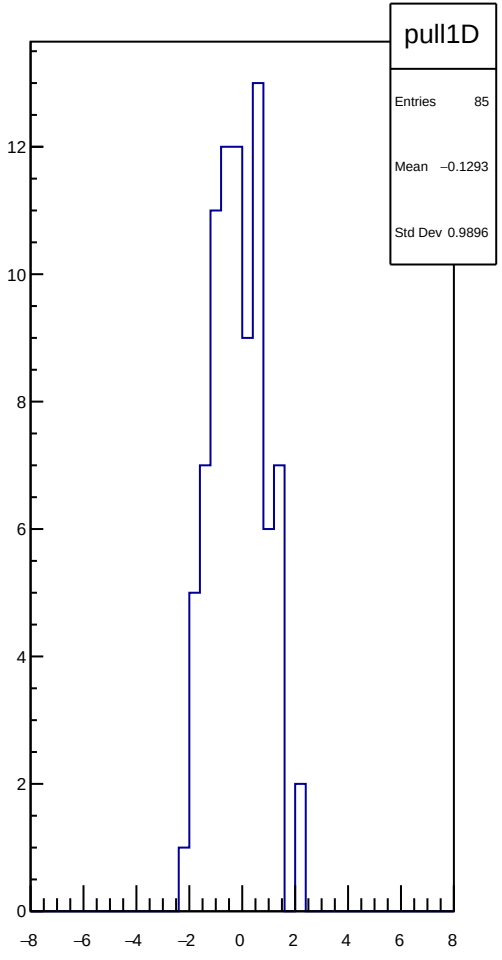

pull1D
Entries 85
Mean −0.02628
Std Dev 0.9292

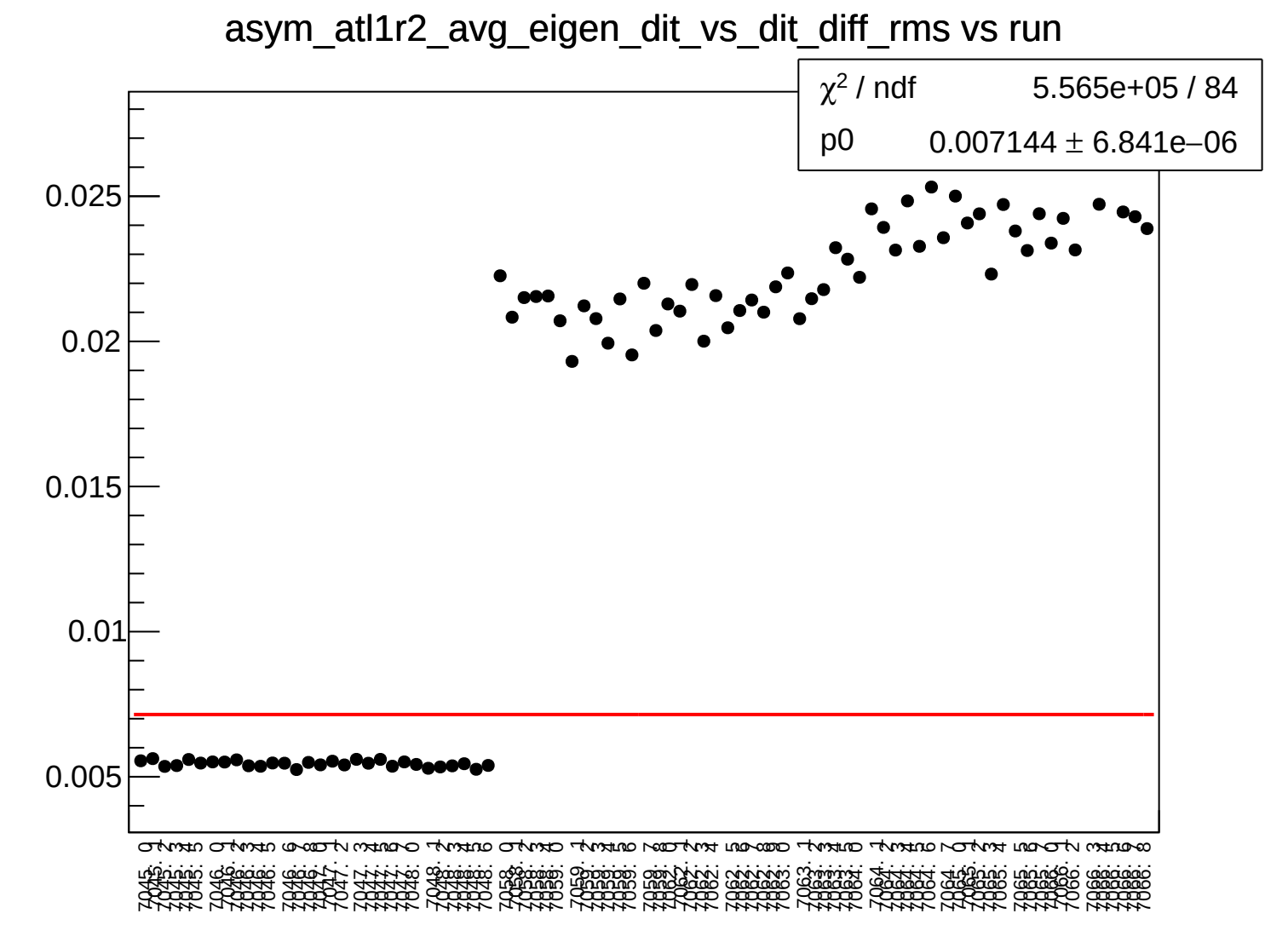

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.434e+04 / 84
p0 344.9 ± 0.2724
700
650
600
550
500
450
400
350
300
250

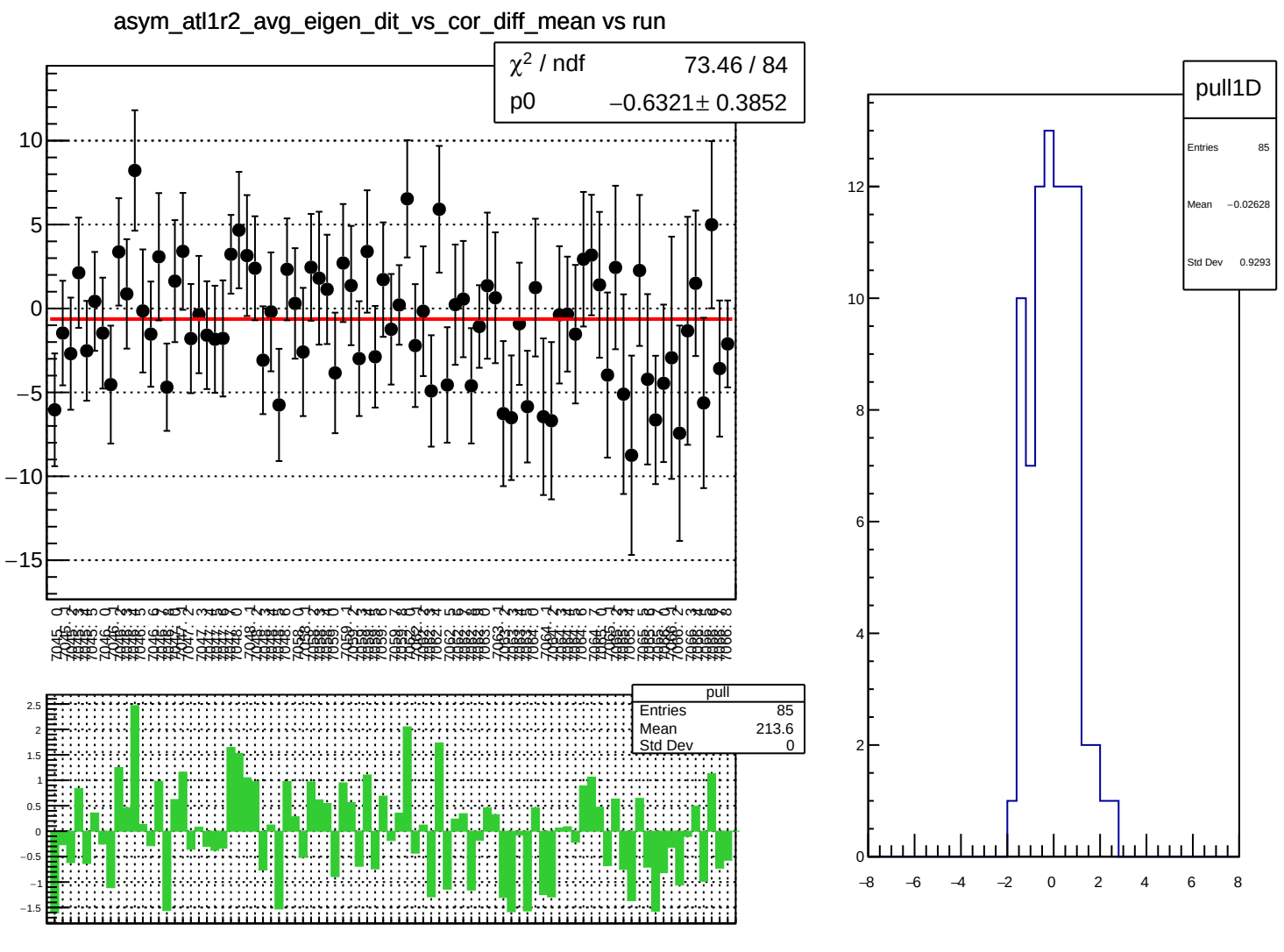

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.46 / 84
p0 −0.6321± 0.3852
pull
Entries 85
Mean 213.6
Std Dev 0
pull1D
Entries 85
Mean −0.02628
Std Dev 0.9292

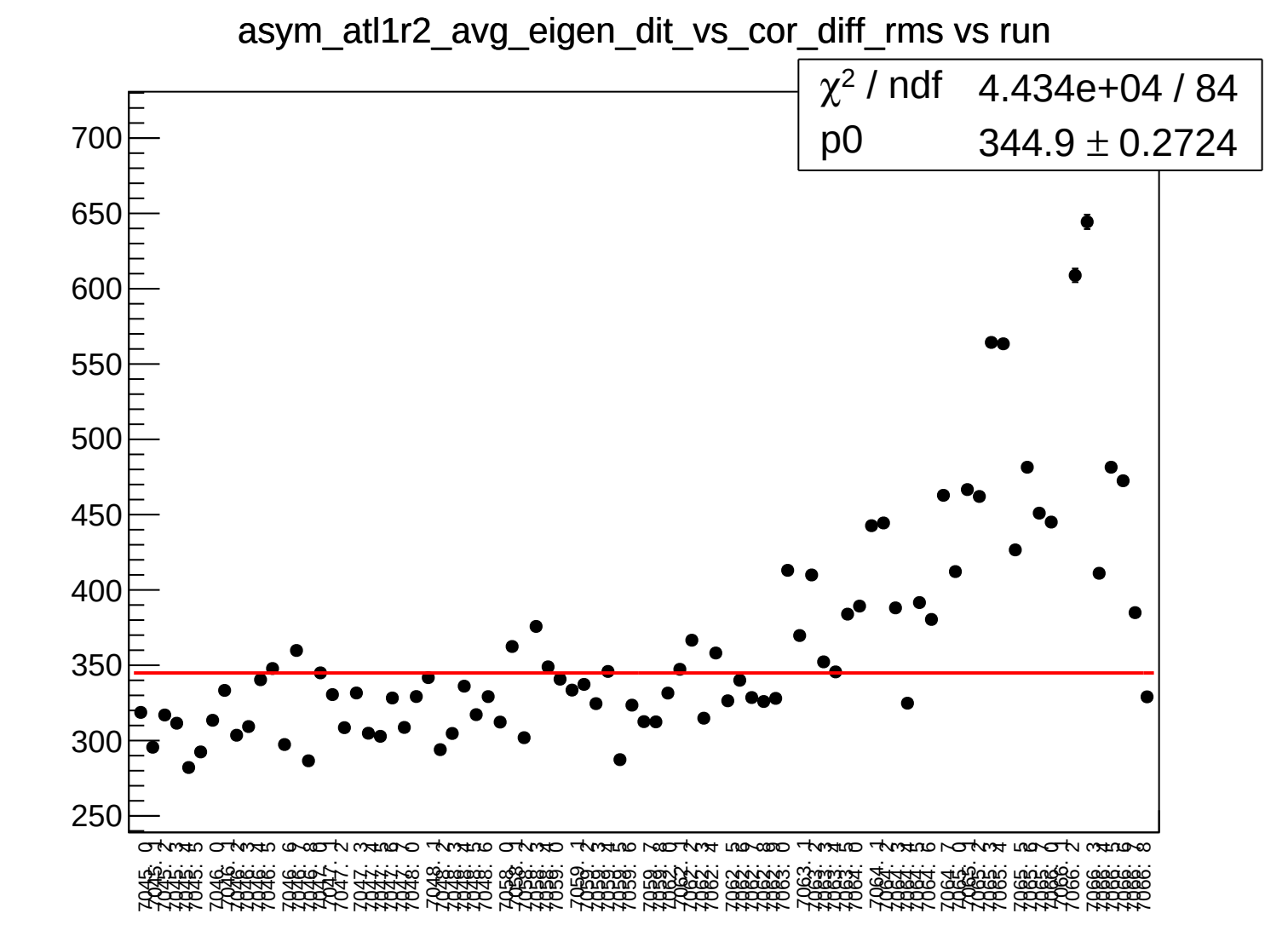

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.434e+04 / 84
p0 344.9 ± 0.2724
700
650
600
550
500
450
400
350
300
250

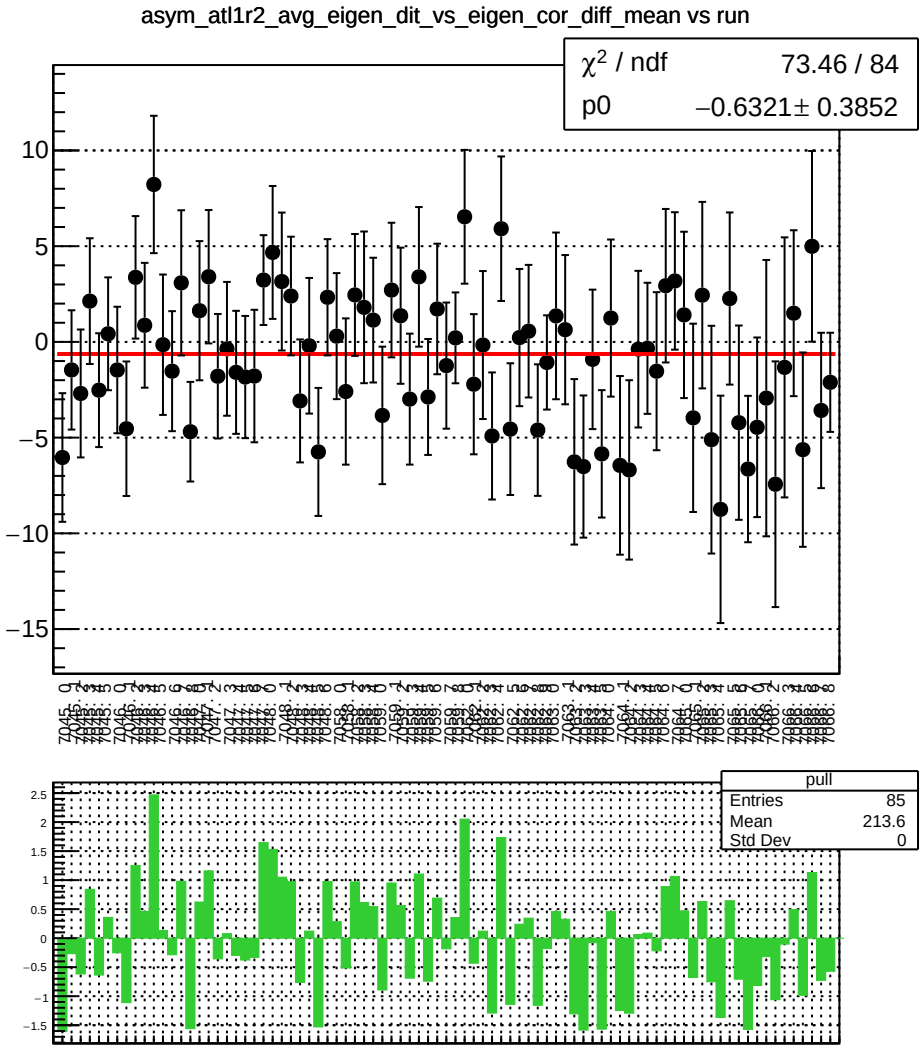

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 84.66 / 84
p0 3.65e−06 ± 9.674e−06
pull
Entries 85
Mean 91.19
Std Dev 0

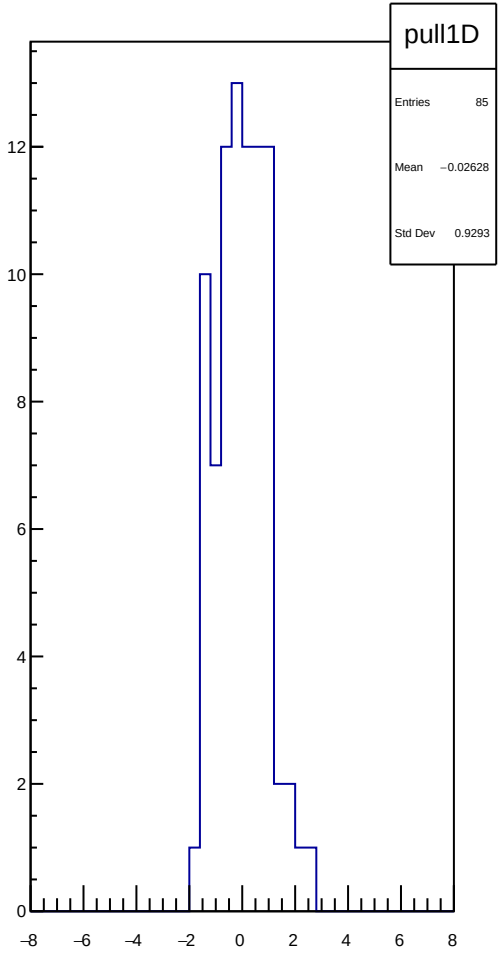

pull1D
Entries 85
Mean −0.1293
Std Dev 0.9896

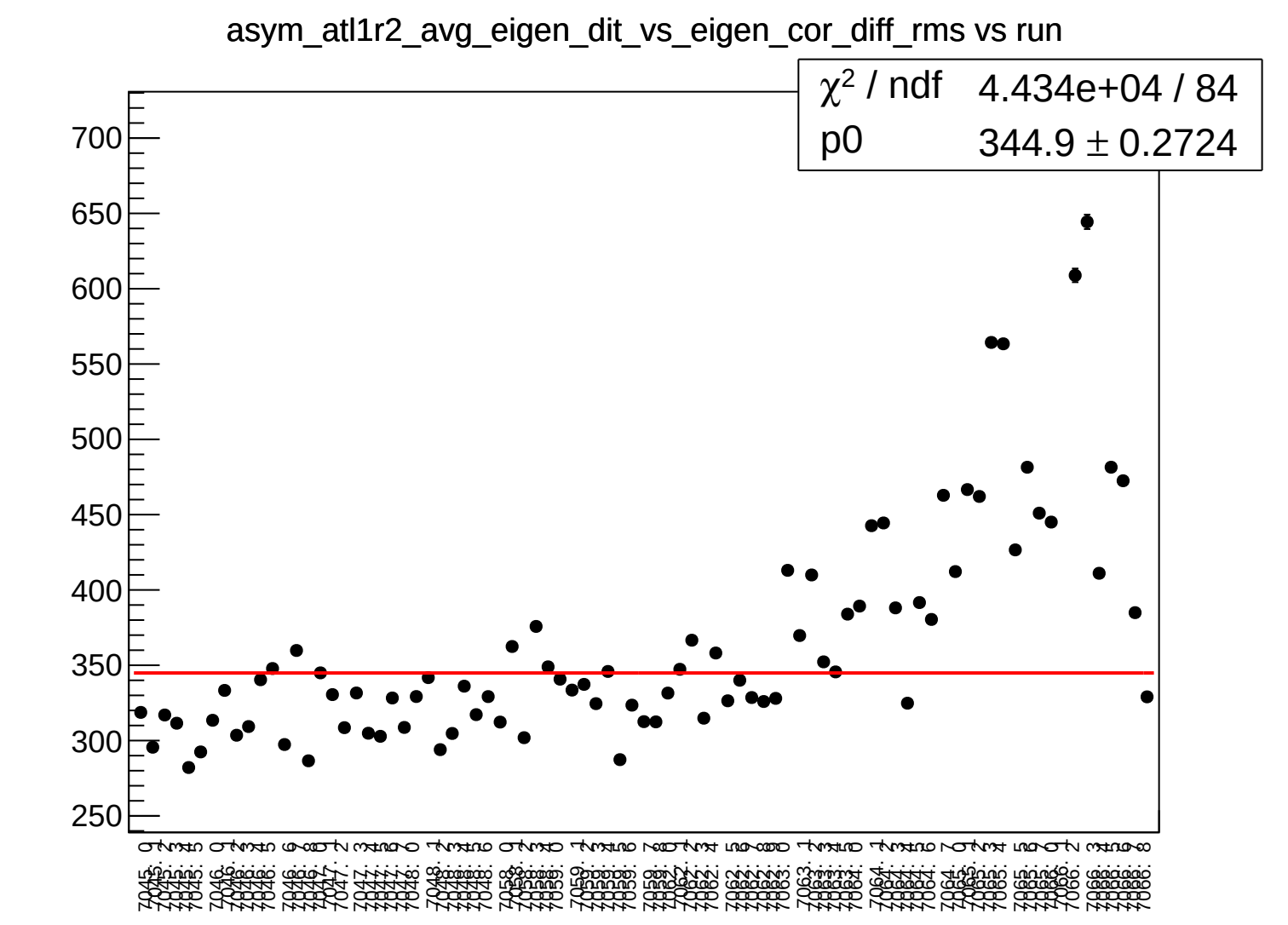

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.565e+05 / 84
p0 0.007144 ± 6.841e−06
0.025
0.02
0.015
0.01
0.005

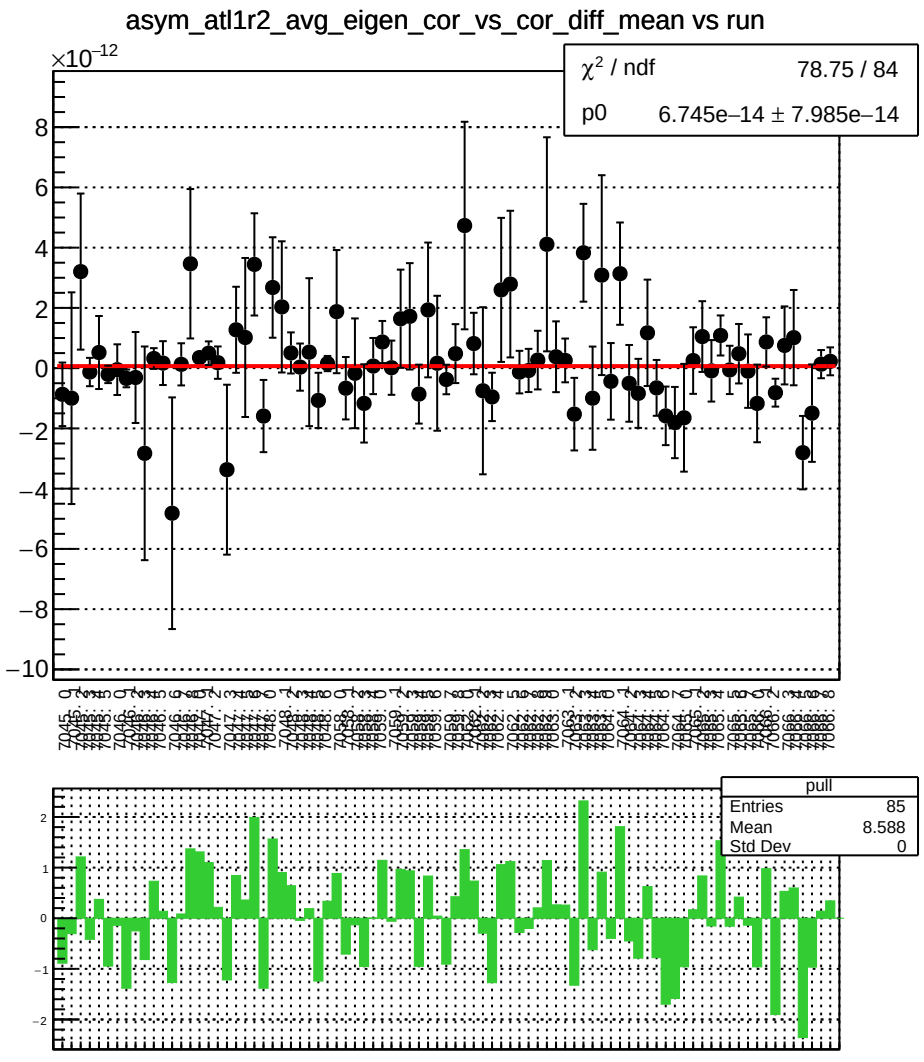

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.46 / 84
p0 −0.6321± 0.3852
pull
Entries 85
Mean 213.6
Std Dev 0
pull1D
Entries 85
Mean −0.02628
Std Dev 0.9293

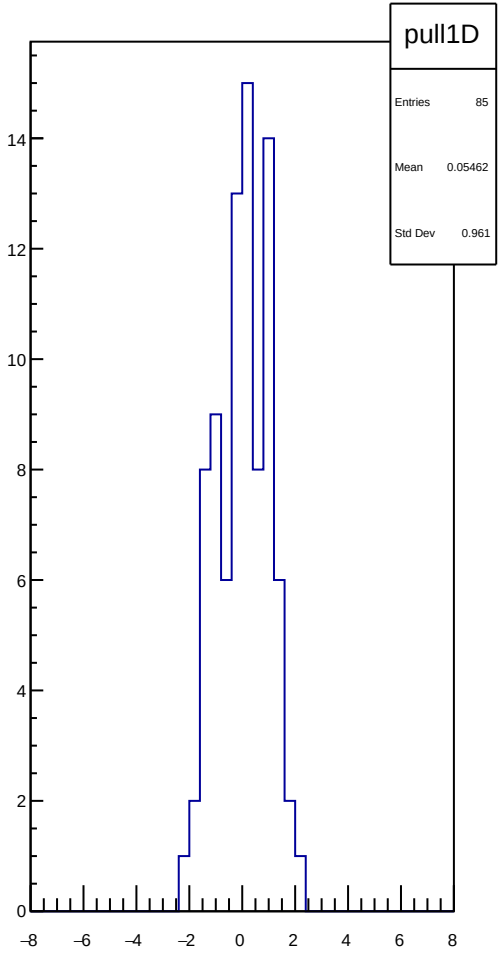

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.434e+04 / 84
p0 344.9 ± 0.2724
700
650
600
550
500
450
400
350
300
250

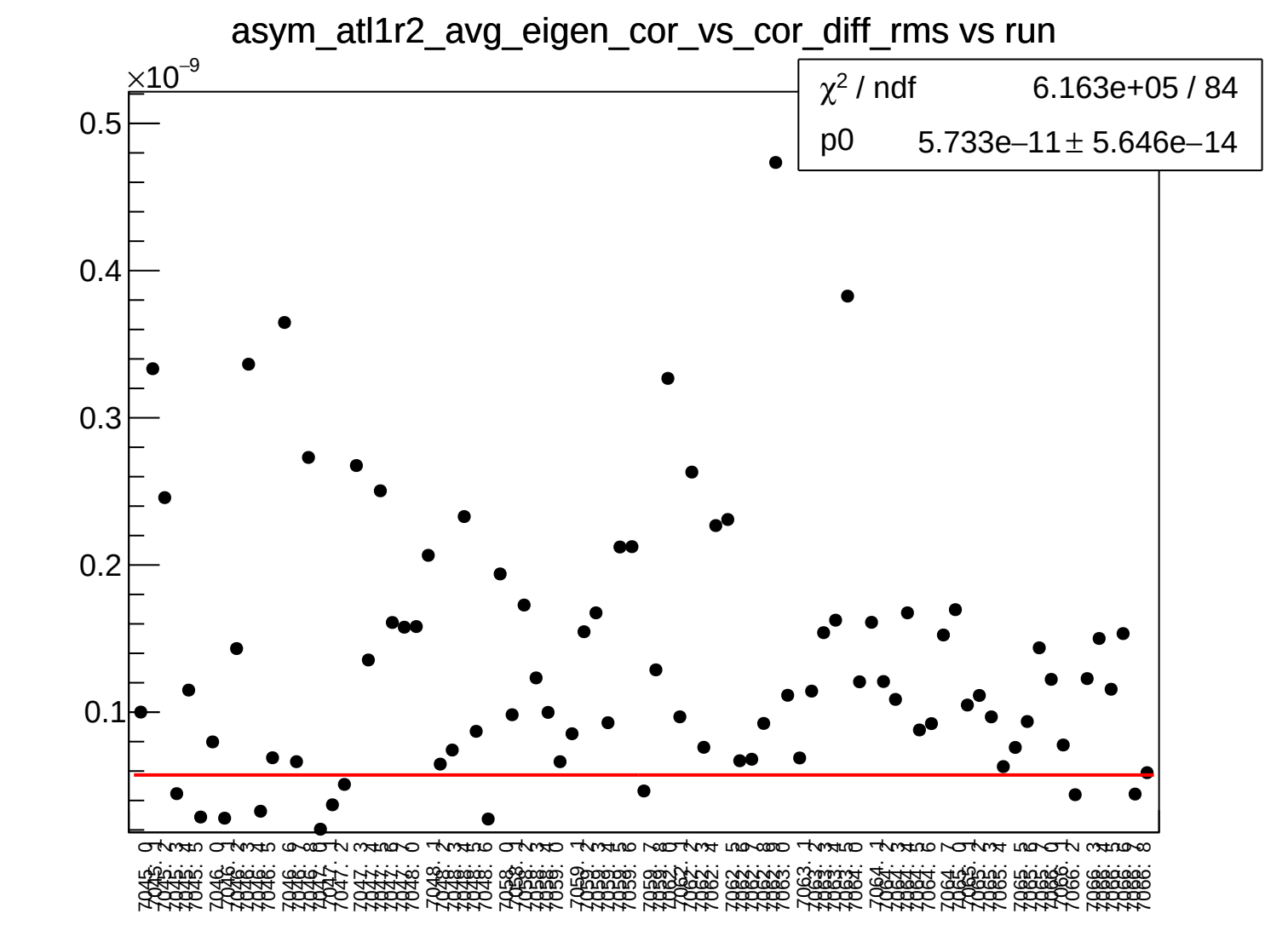

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.46 / 84
p0 −0.6321± 0.3852
pull
Entries 85
Mean 213.6
Std Dev 0

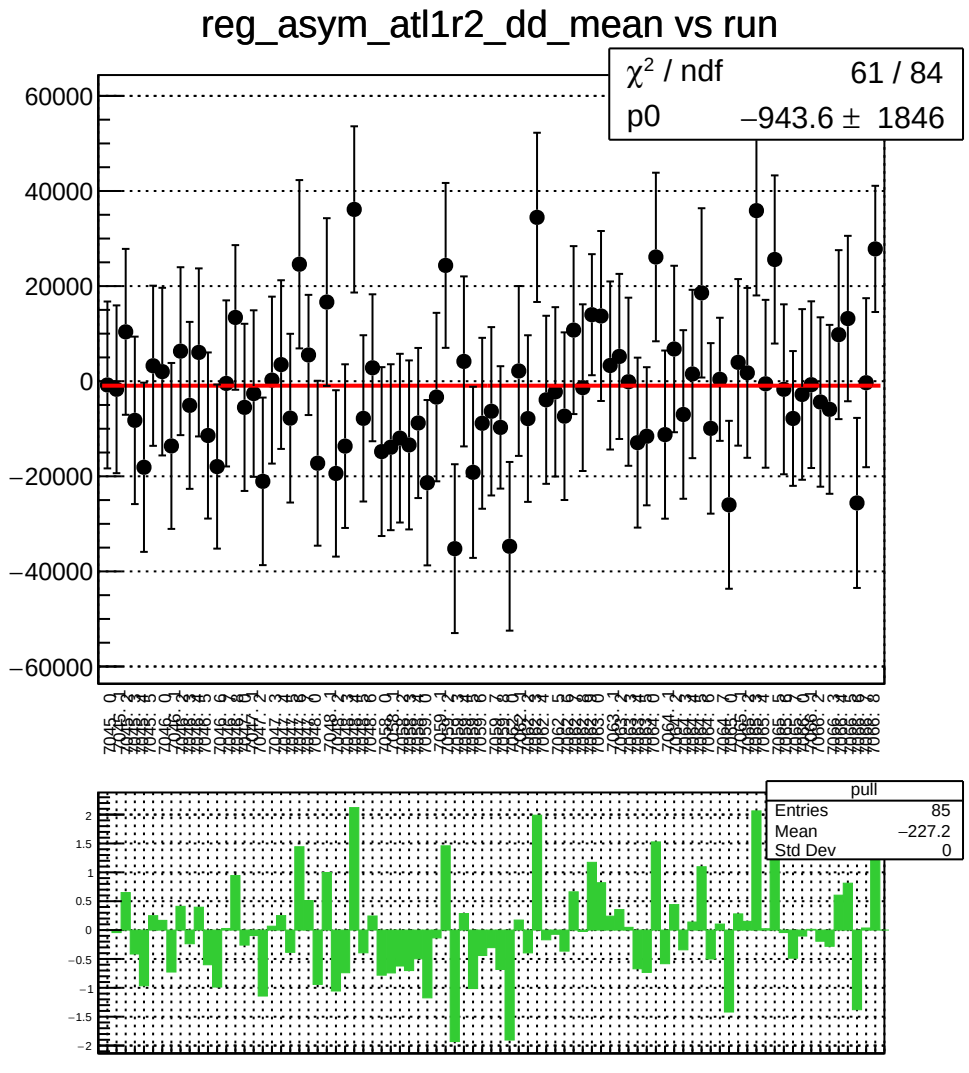

pull1D
Entries 85
Mean −0.02628
Std Dev 0.9293

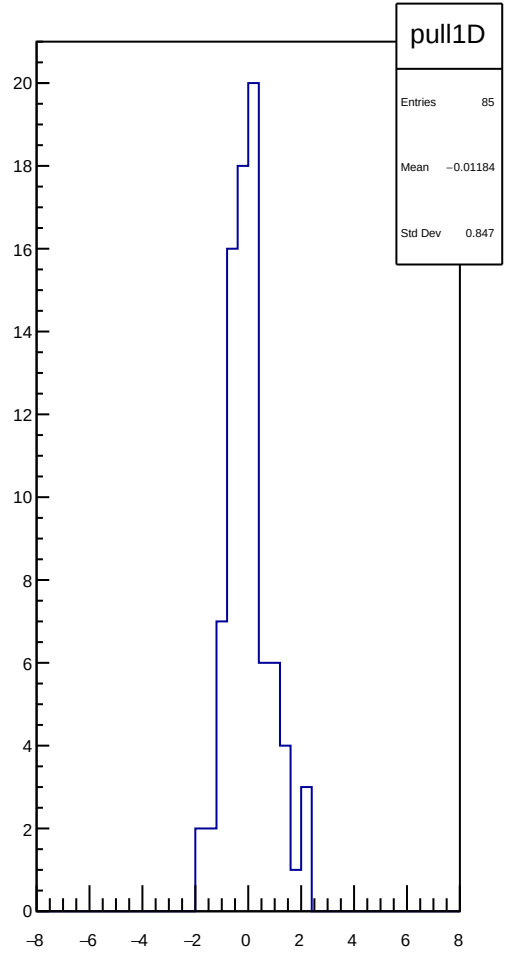

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.434e+04 / 84
p0 344.9 ± 0.2724
700
650
600
550
500
450
400
350
300
250

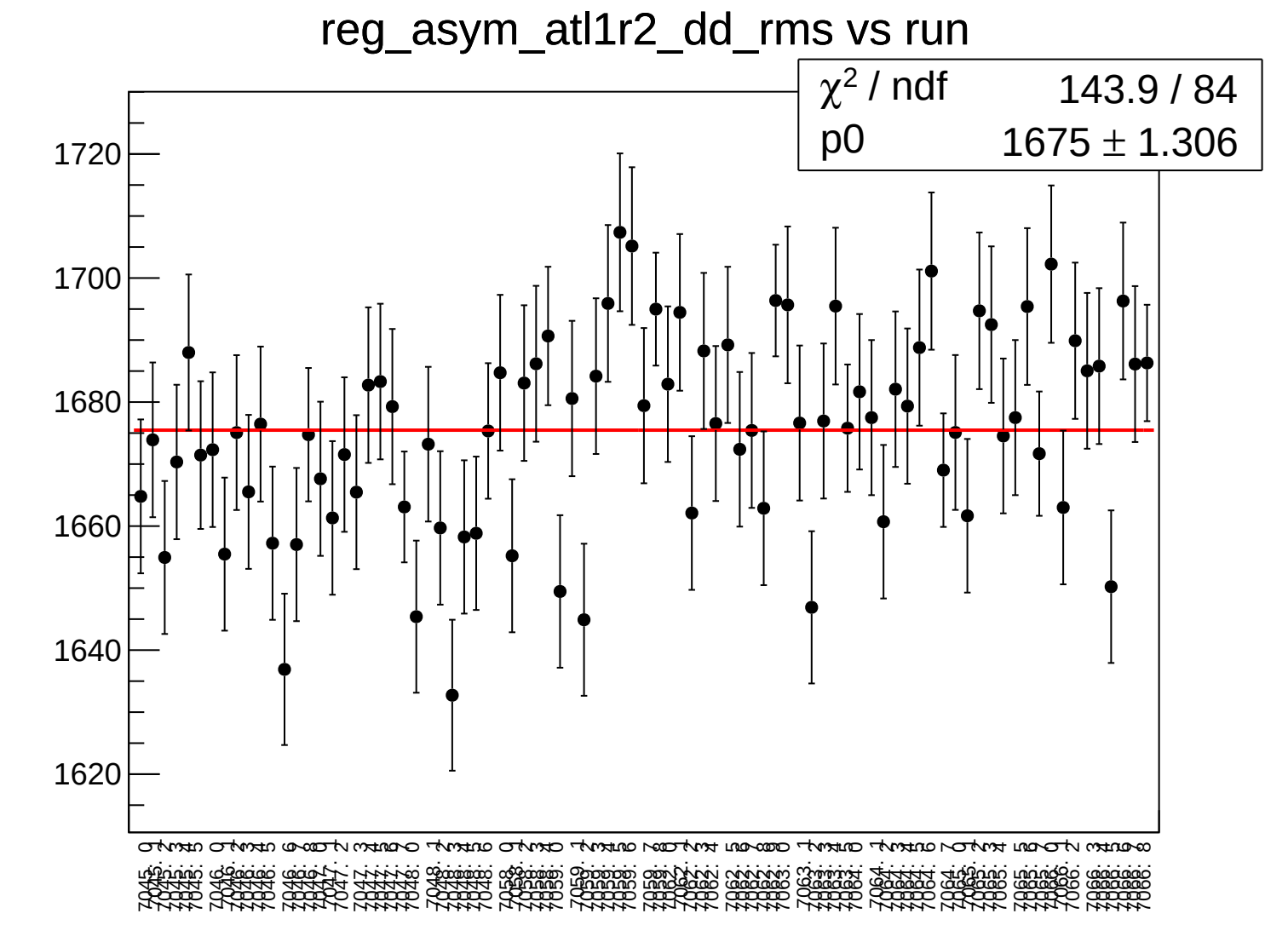

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.75 / 84
p0 6.745e−14 ± 7.985e−14
pull
Entries 85
Mean 8.588
Std Dev 0

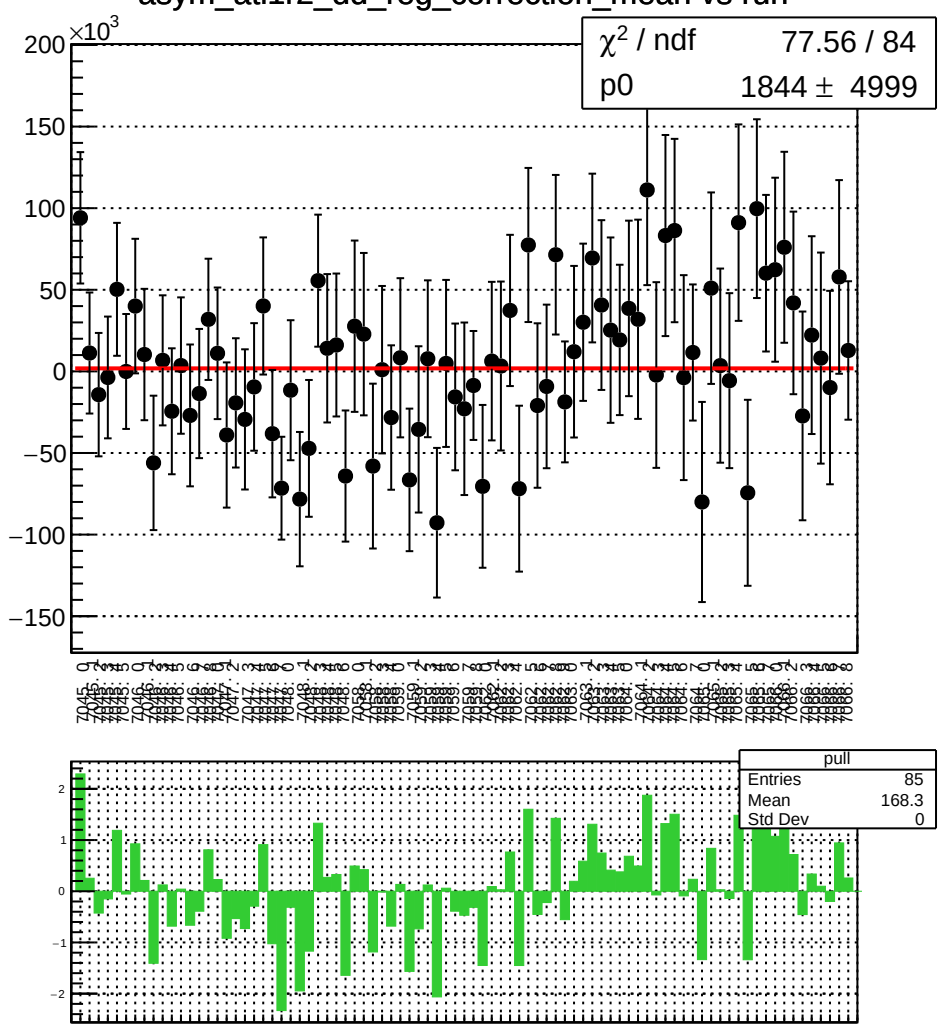

pull1D
Entries 85
Mean 0.05462
Std Dev 0.961

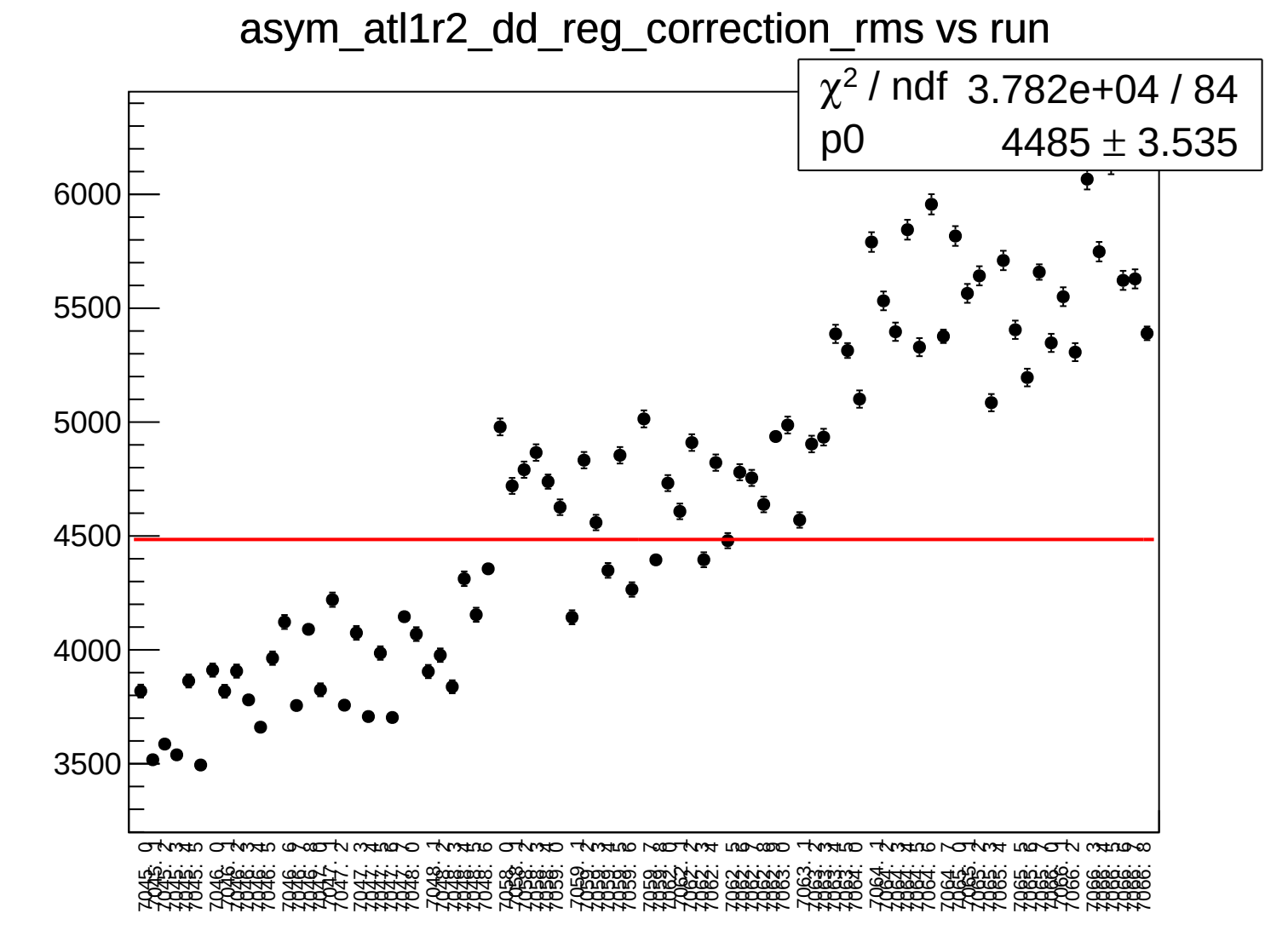

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.163e+05 / 84
p0 5.733e−11 ± 5.646e−14
0.5
0.4
0.3
0.2
0.1

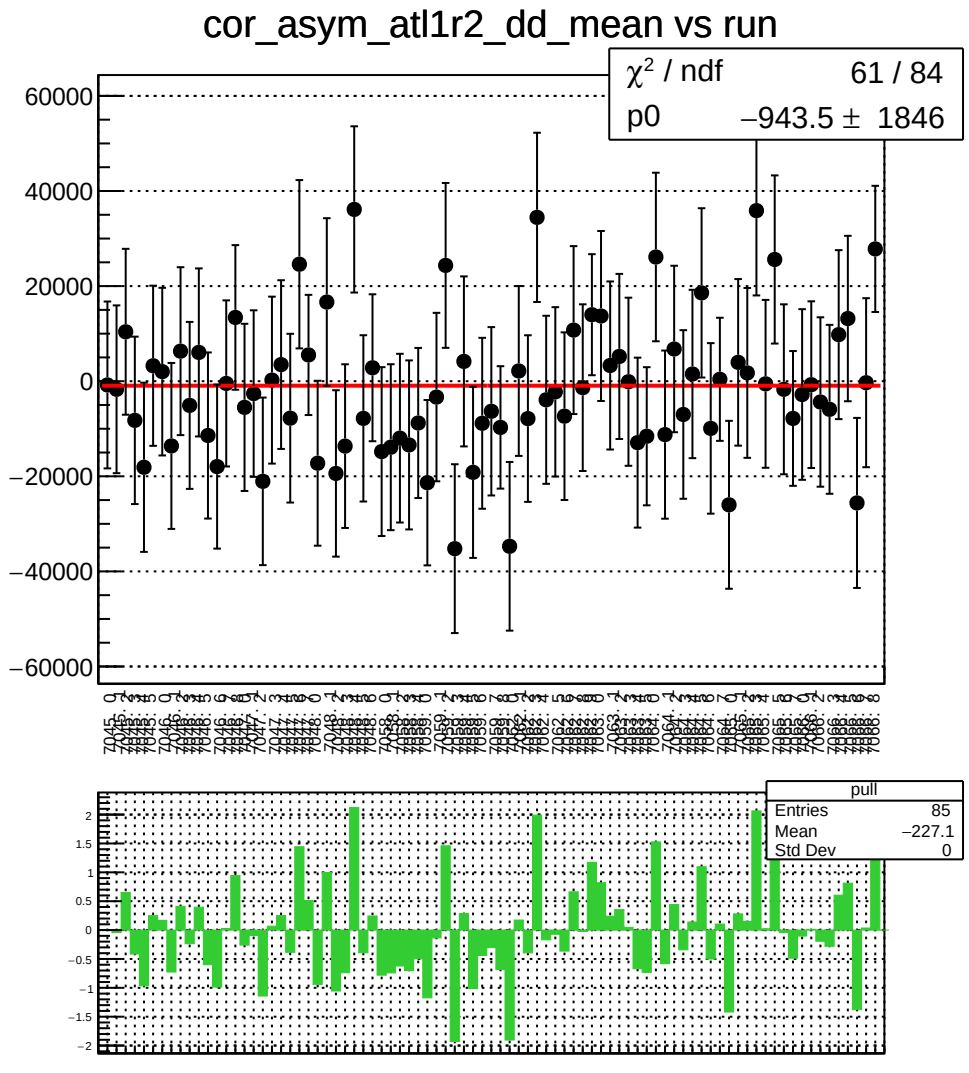

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 61 / 84
p0 −943.6 ± 1846
pull
Entries 85
Mean −227.2
Std Dev 0

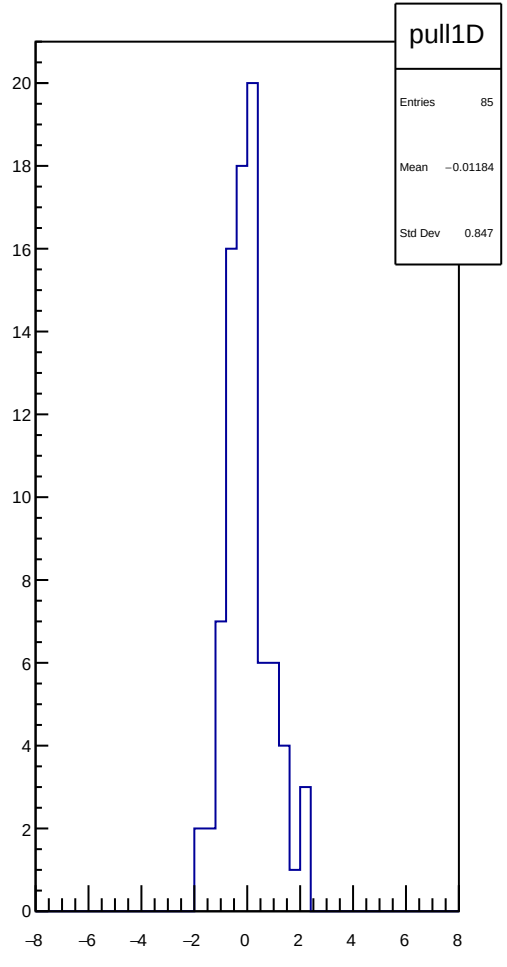

pull1D
Entries 85
Mean −0.01184
Std Dev 0.847

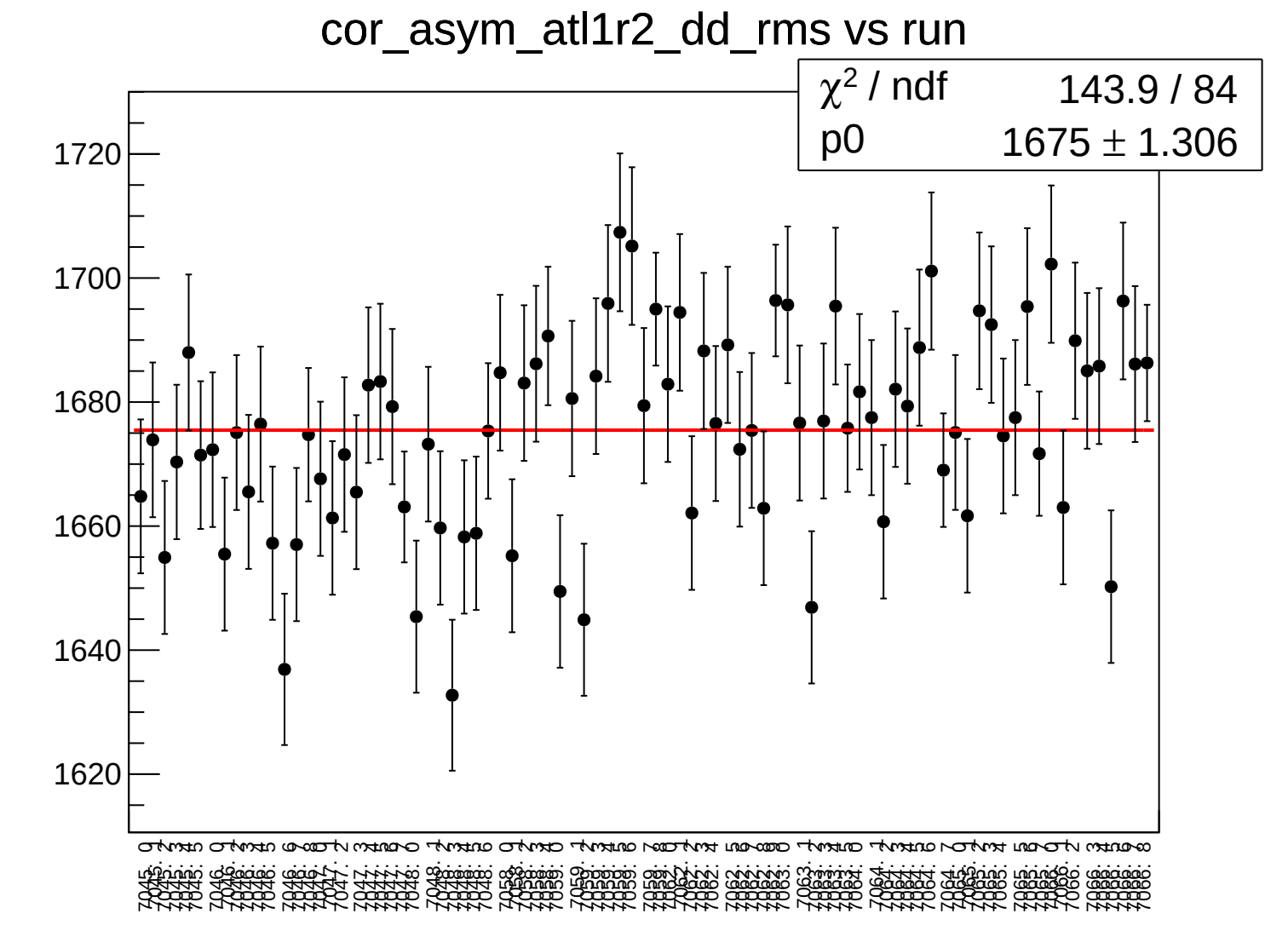

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 143.9 / 84
p0 1675 ± 1.306
1720
1700
1680
1660
1640
1620

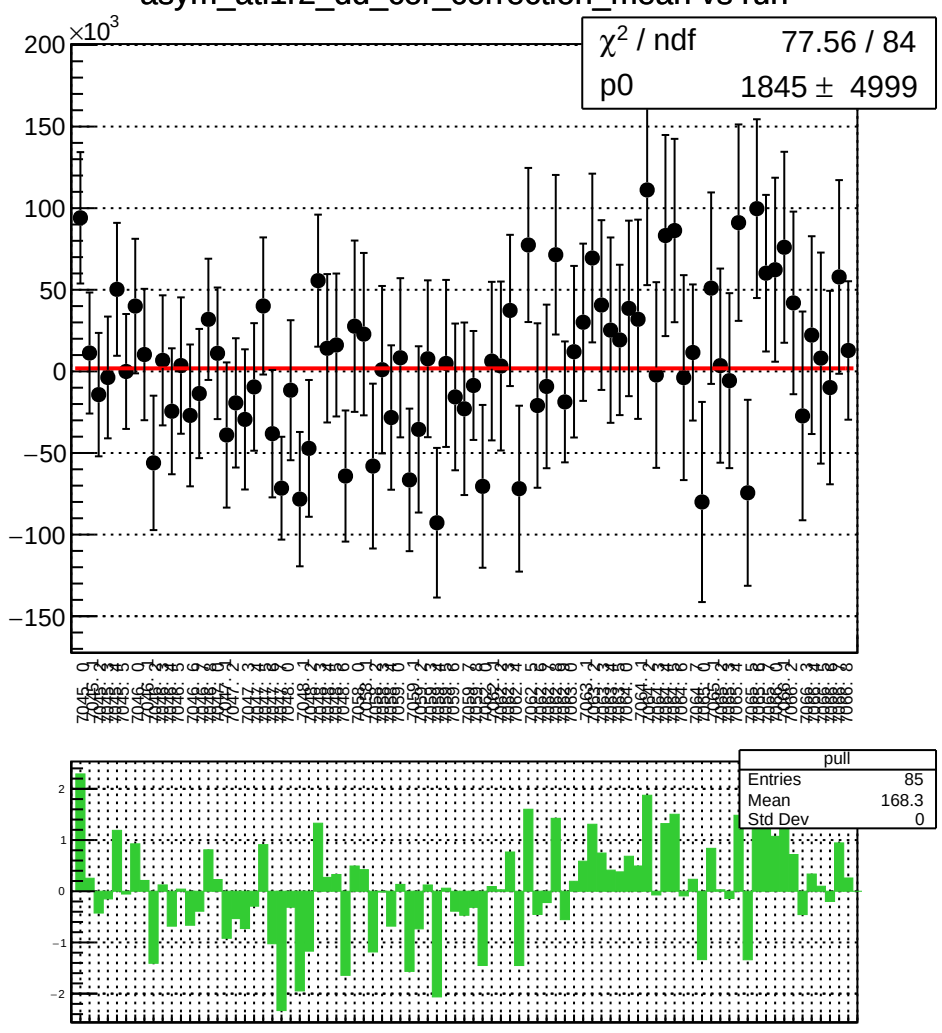

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 77.56 / 84
p0 1844 ± 4999
pull
Entries 85
Mean 168.3
Std Dev 0
pull1D
Entries 85
Mean 0.04697
Std Dev 0.9541

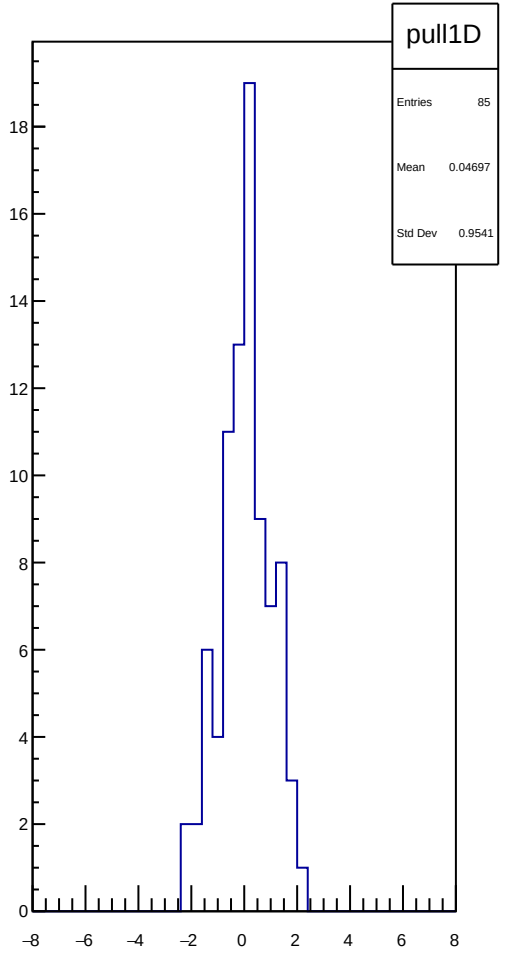

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3.782e+04 / 84
p0 4485 ± 3.535
6000
5500
5000
4500
4000
3500

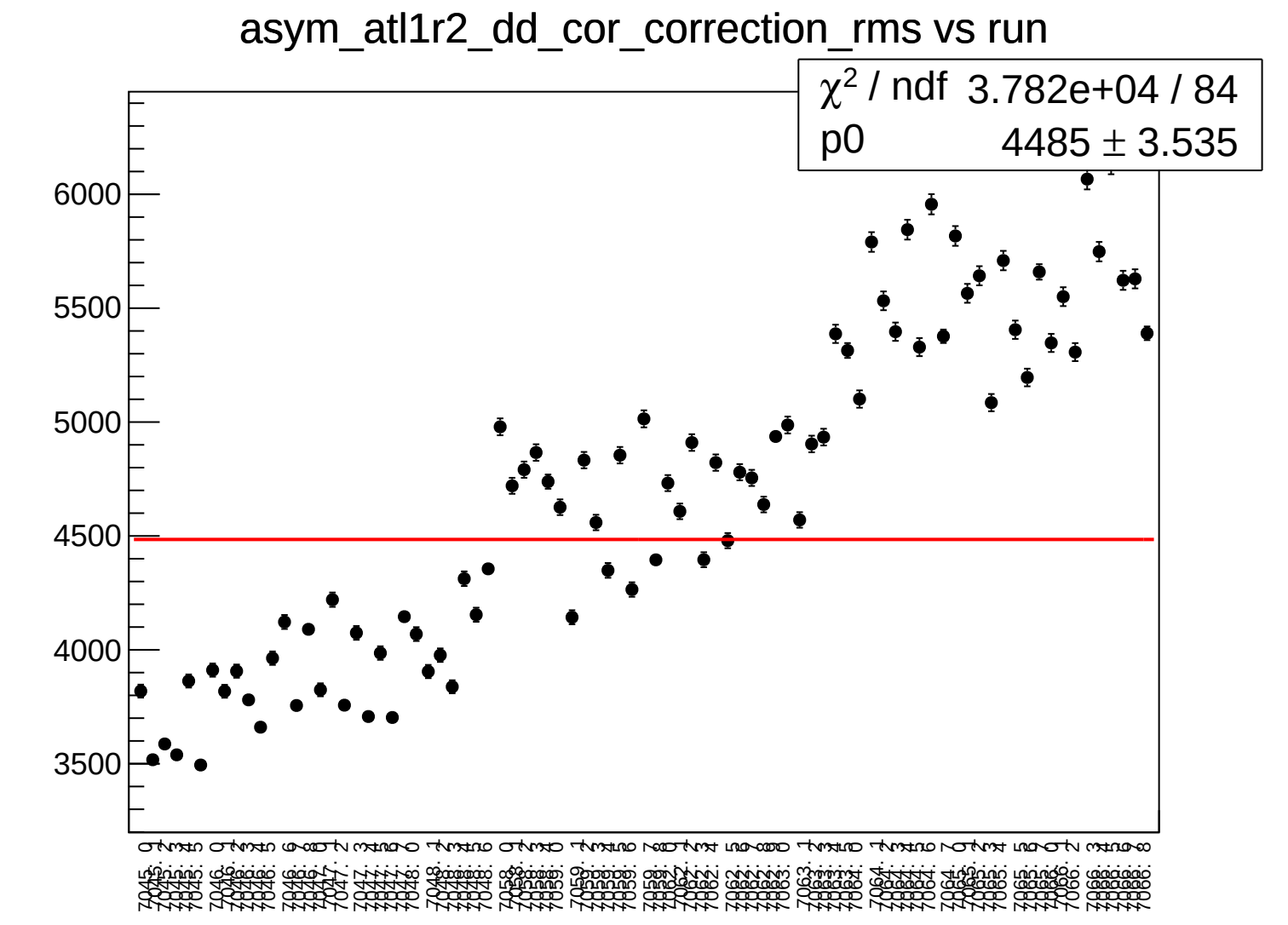

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 61 / 84
p0 −943.5 ± 1846
pull
Entries 85
Mean −227.1
Std Dev 0

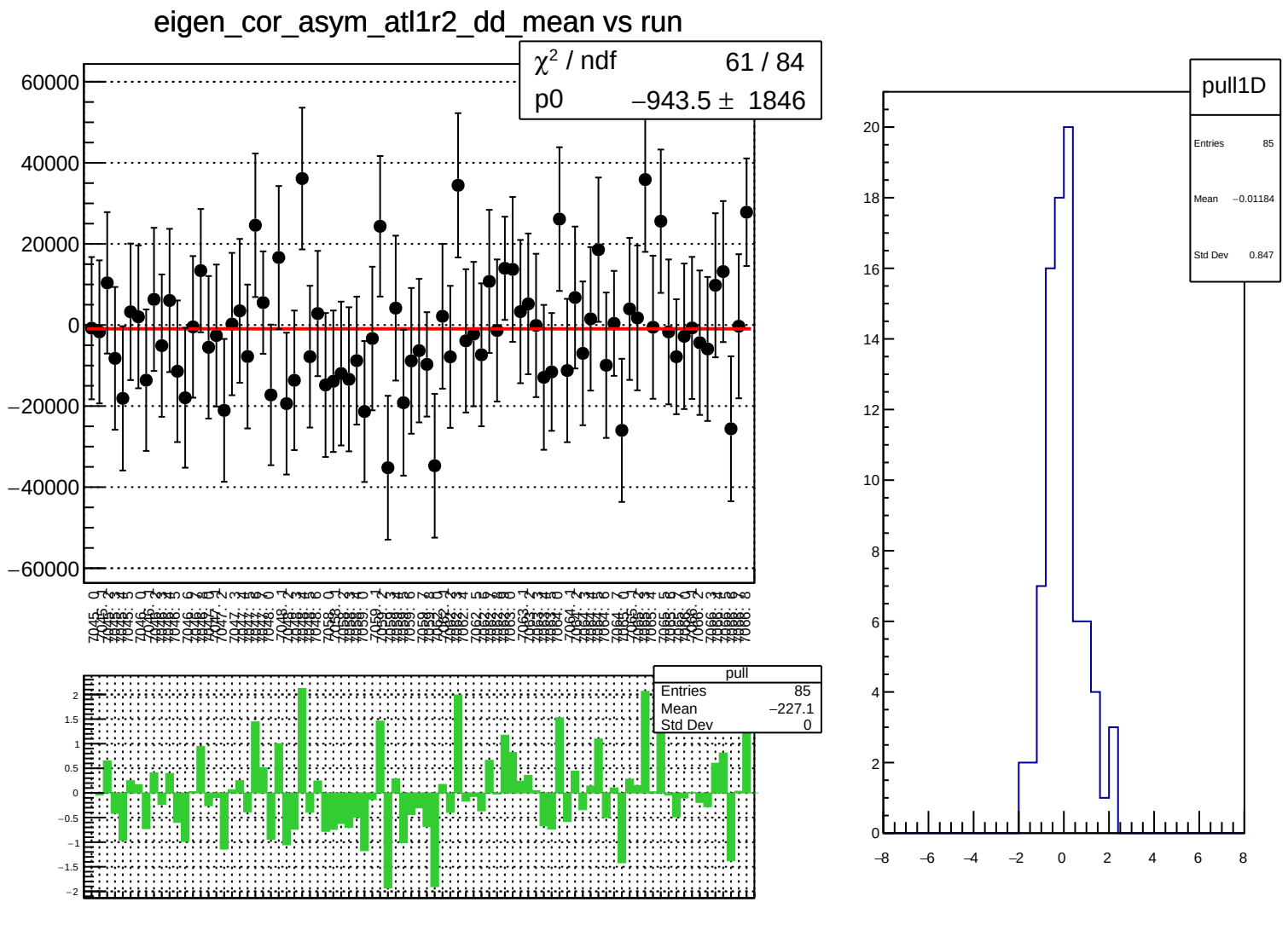

pull1D
Entries 85
Mean −0.01184
Std Dev 0.847

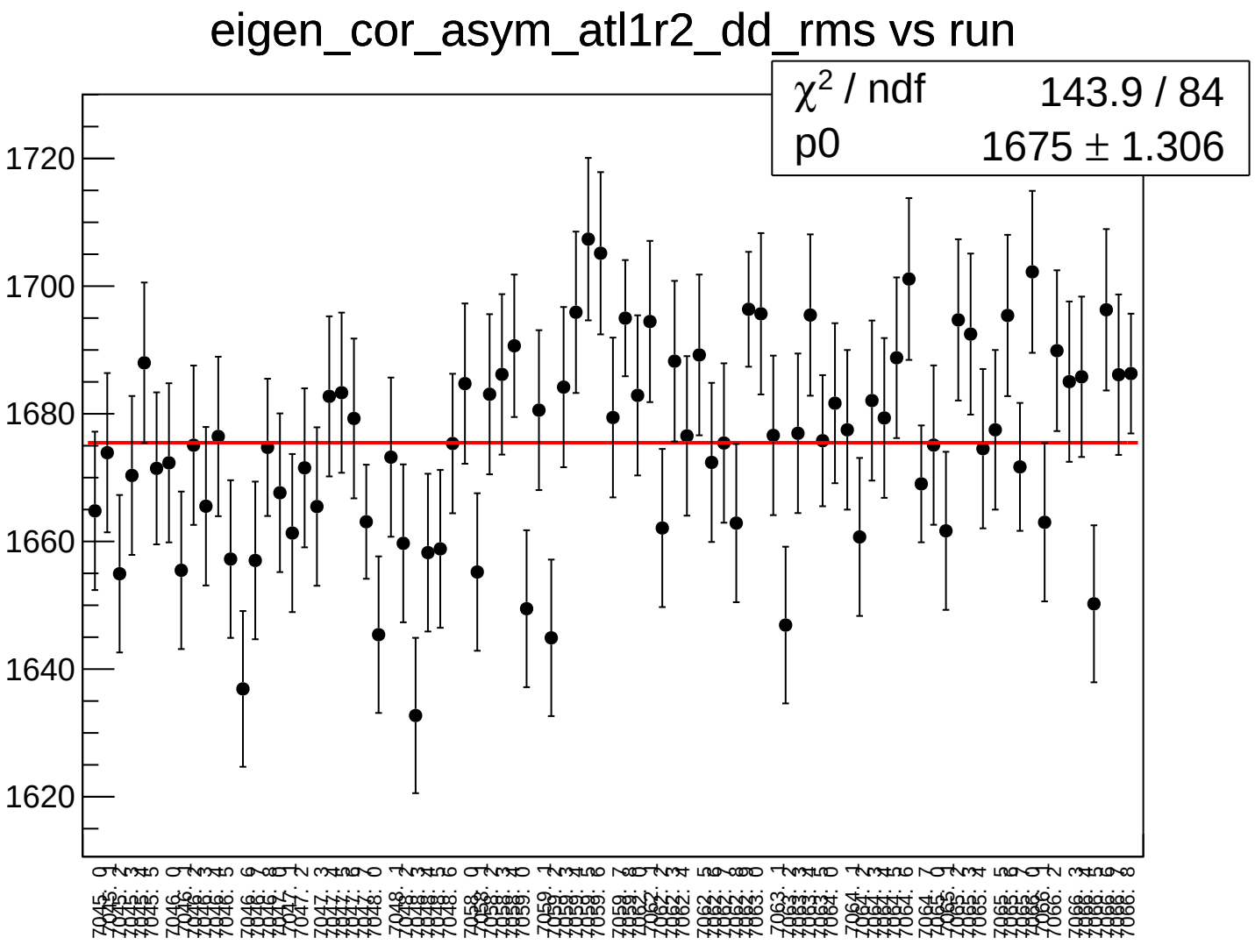

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 143.9 / 84
p0 1675 ± 1.306
1720
1700
1680
1660
1640
1620

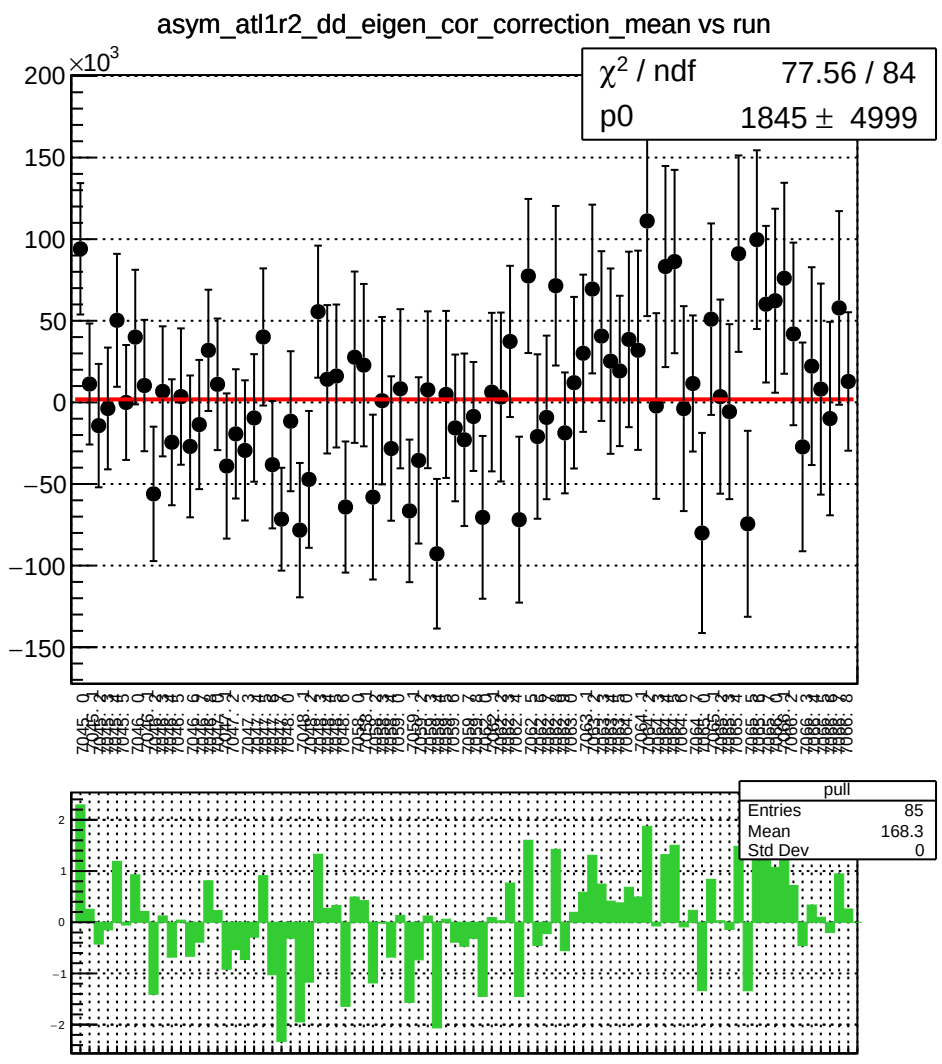

asym_atl1r2_dd_cor_correction_mean vs run
χ² / ndf 77.56 / 84
p0 1845 ± 4999
×10³
pull
Entries 85
Mean 168.3
Std Dev 0

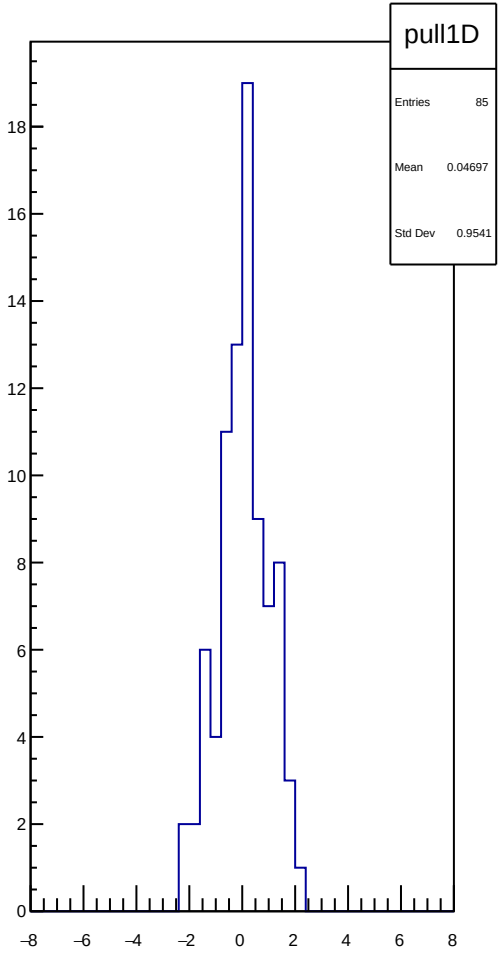

pull1D
Entries 85
Mean 0.04697
Std Dev 0.9541

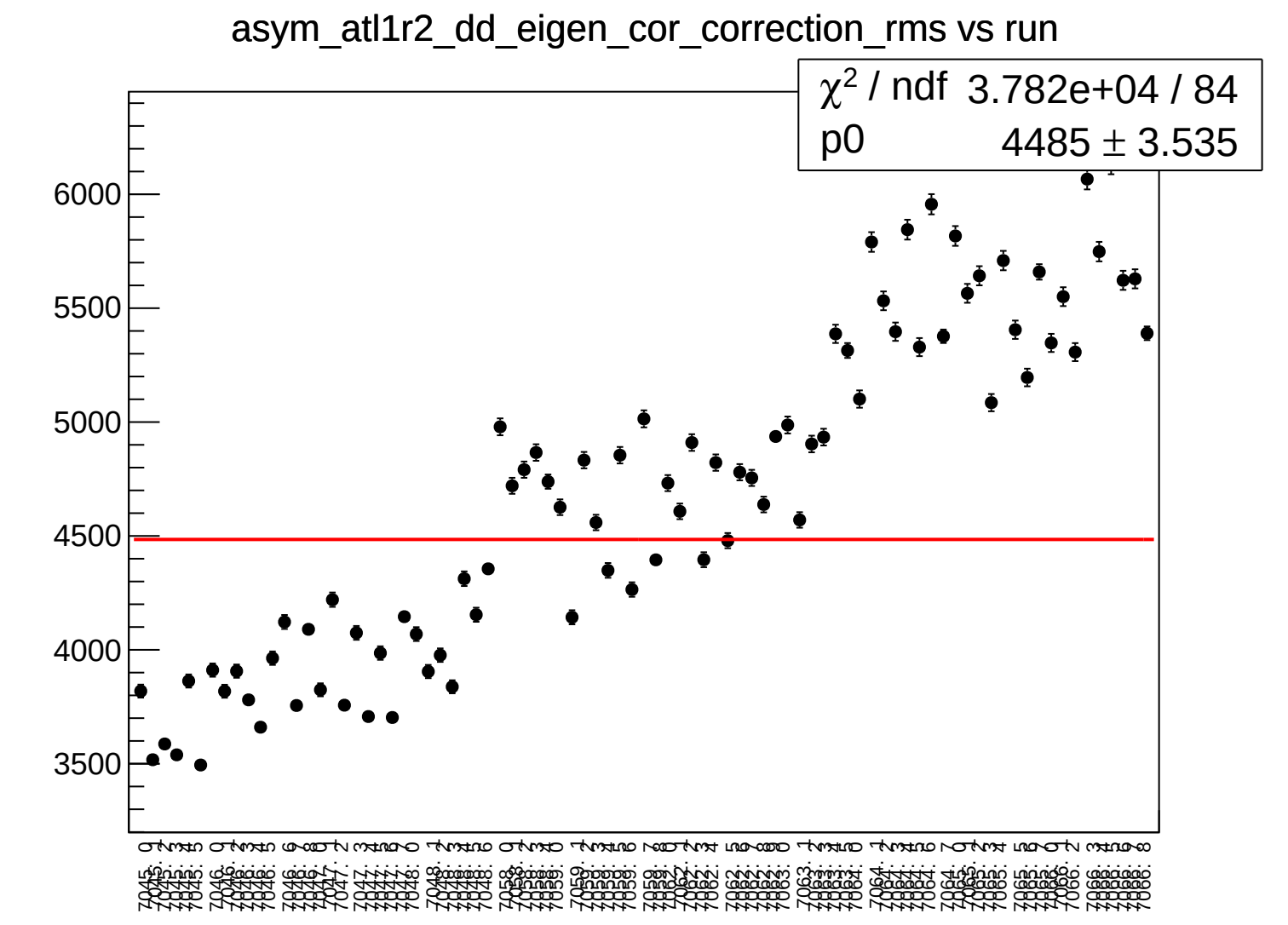

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3.782e+04 / 84
p0 4485 ± 3.535
6000
5500
5000
4500
4000
3500

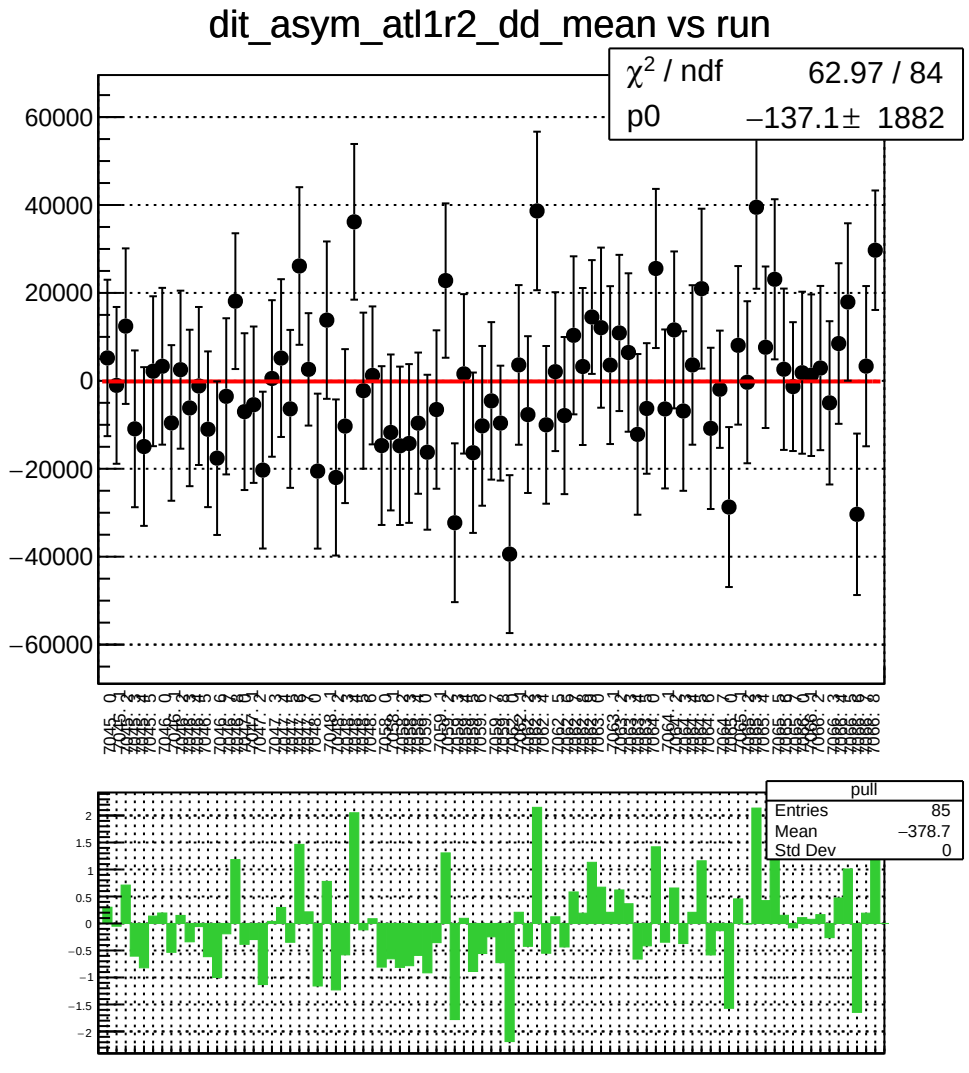

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 61 / 84
p0 −943.5 ± 1846
pull
Entries 85
Mean −227.1
Std Dev 0
pull1D
Entries 85
Mean −0.01184
Std Dev 0.847

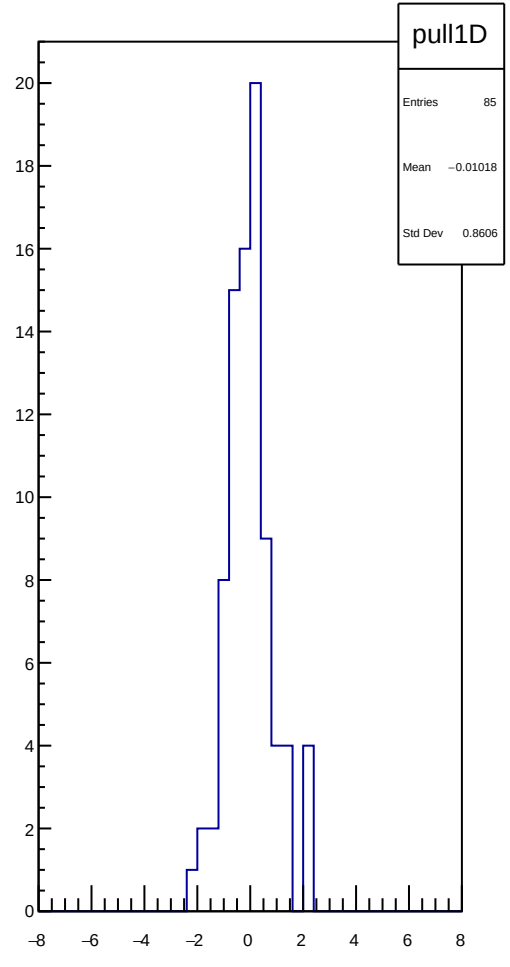

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 143.9 / 84
p0 1675 ± 1.306
1720
1700
1680
1660
1640
1620

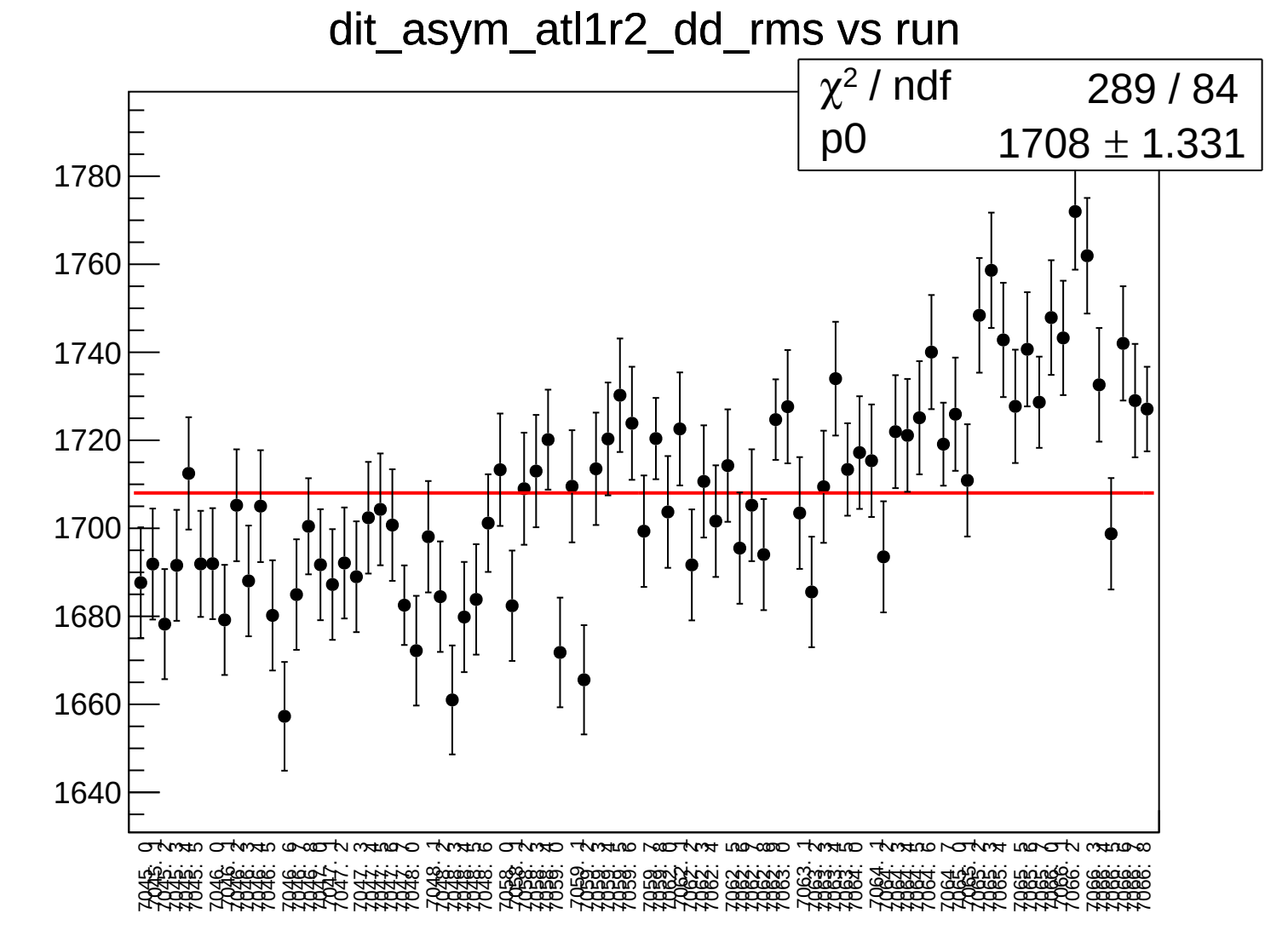

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.56 / 84
p0 1845 ± 4999
×10³
pull
Entries 85
Mean 168.3
Std Dev 0

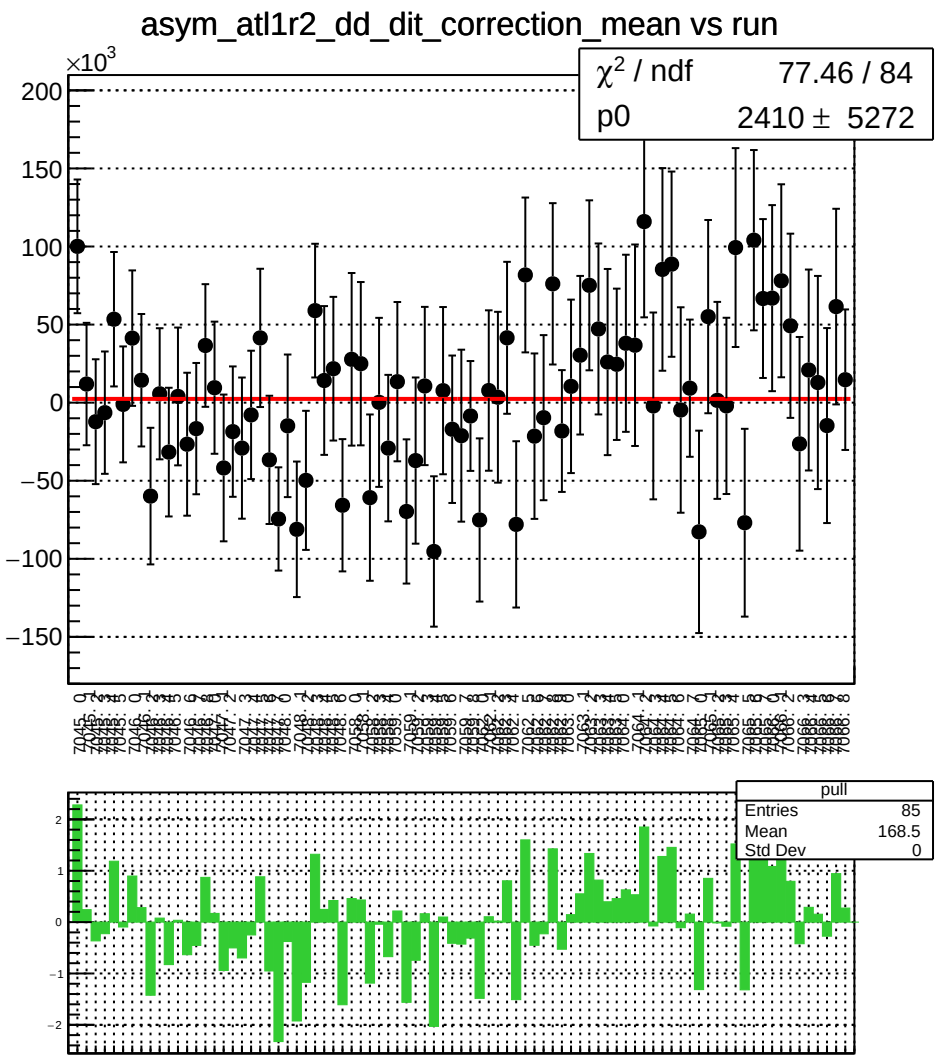

pull1D
Entries 85
Mean 0.04697
Std Dev 0.9541

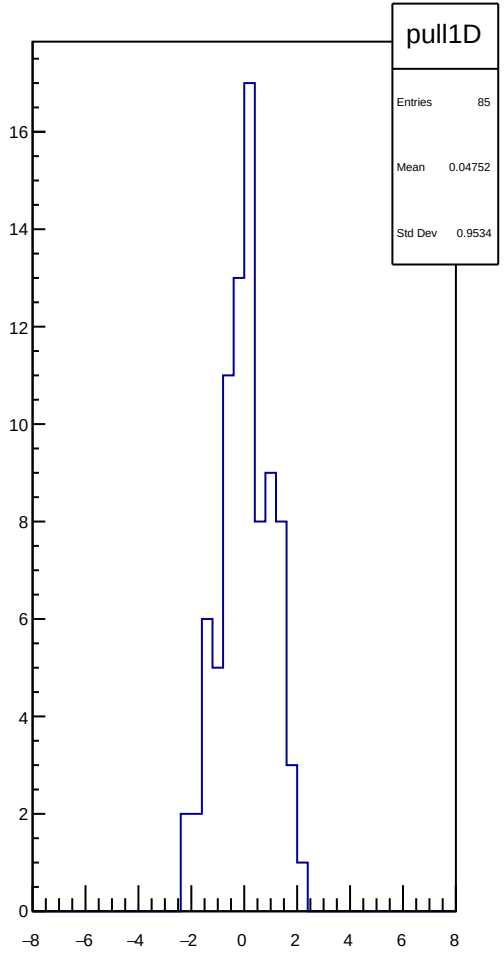

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.782e+04 / 84
p0 4485 ± 3.535
6000
5500
5000
4500
4000
3500

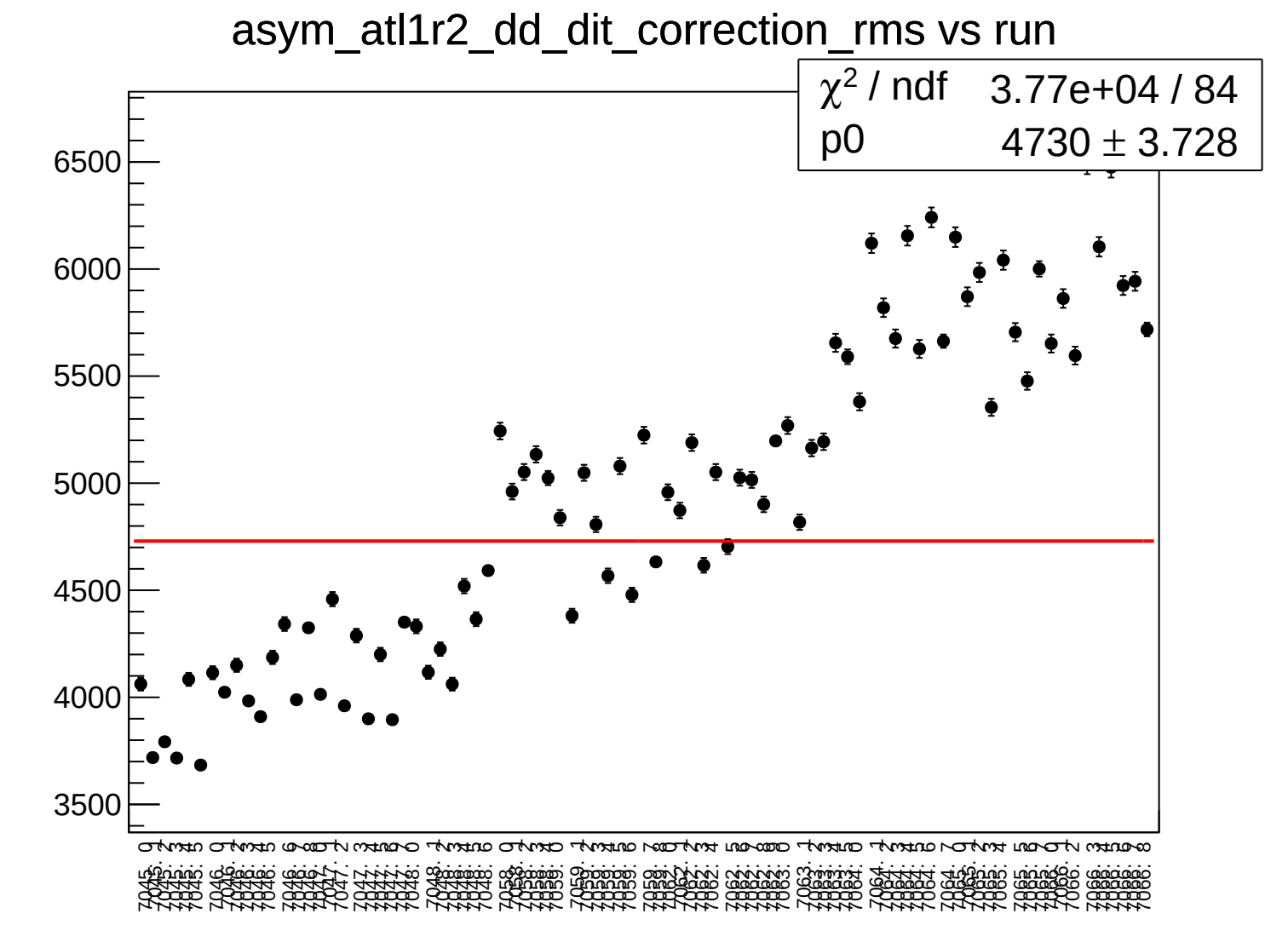

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 62.97 / 84
p0 −137.1± 1882
pull
Entries 85
Mean −378.7
Std Dev 0

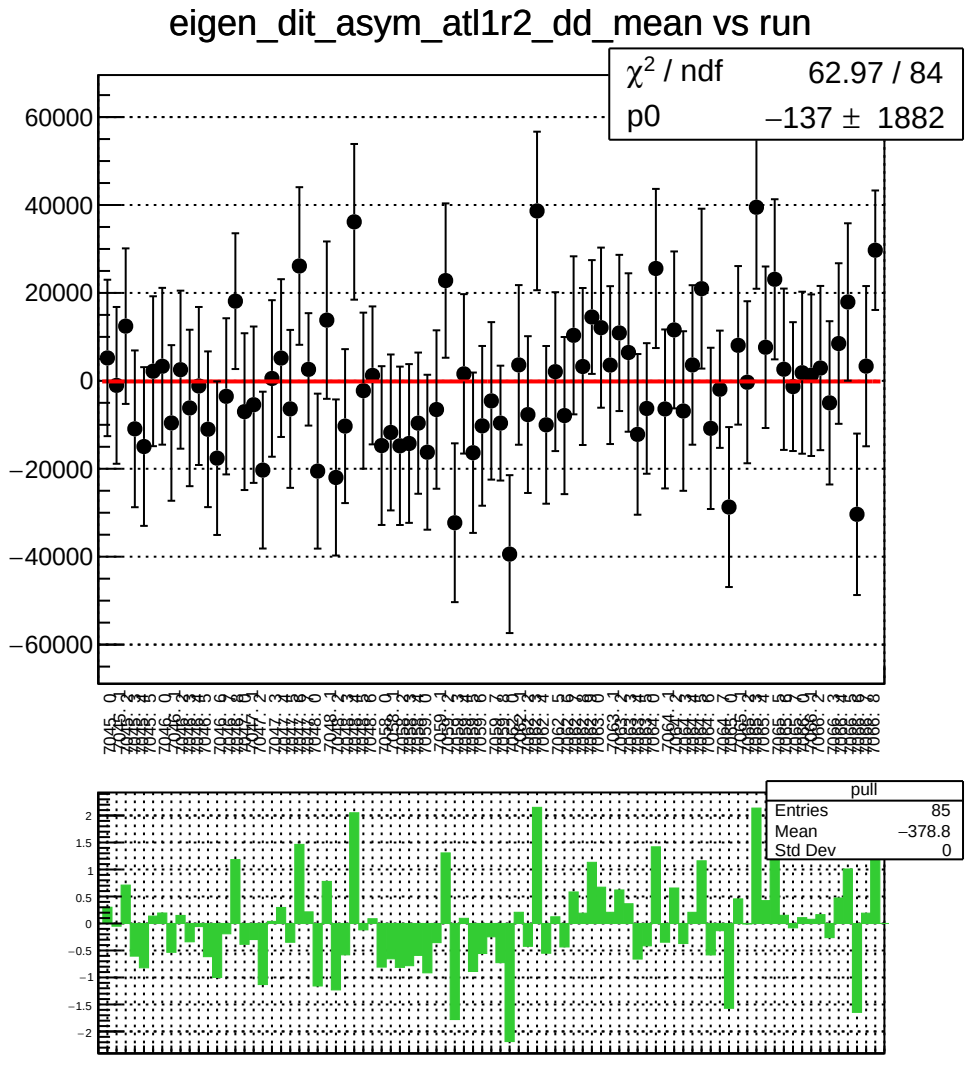

pull1D
Entries 85
Mean −0.01018
Std Dev 0.8606

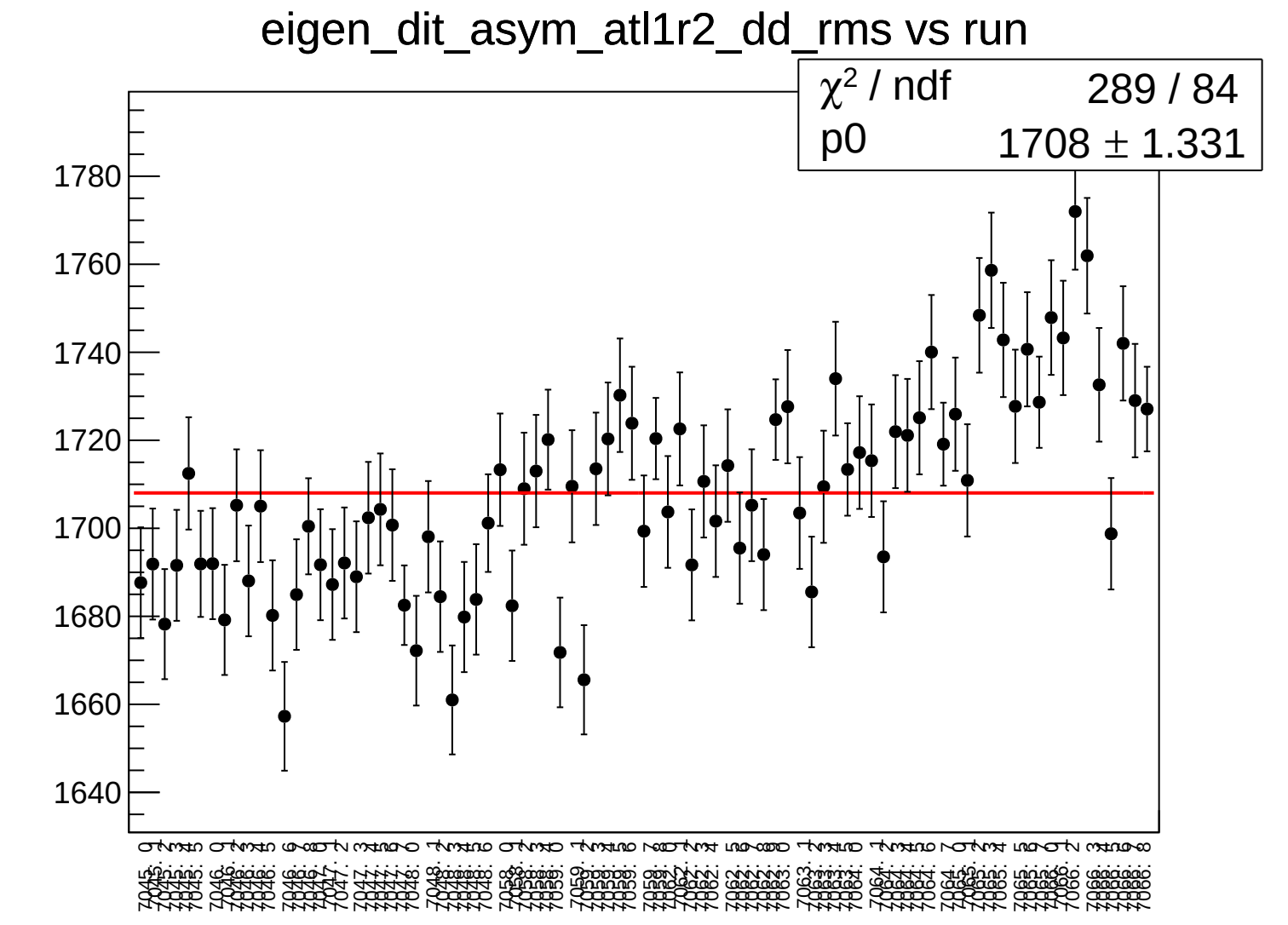

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 289 / 84
p0 1708 ± 1.331
1780
1760
1740
1720
1700
1680
1660
1640

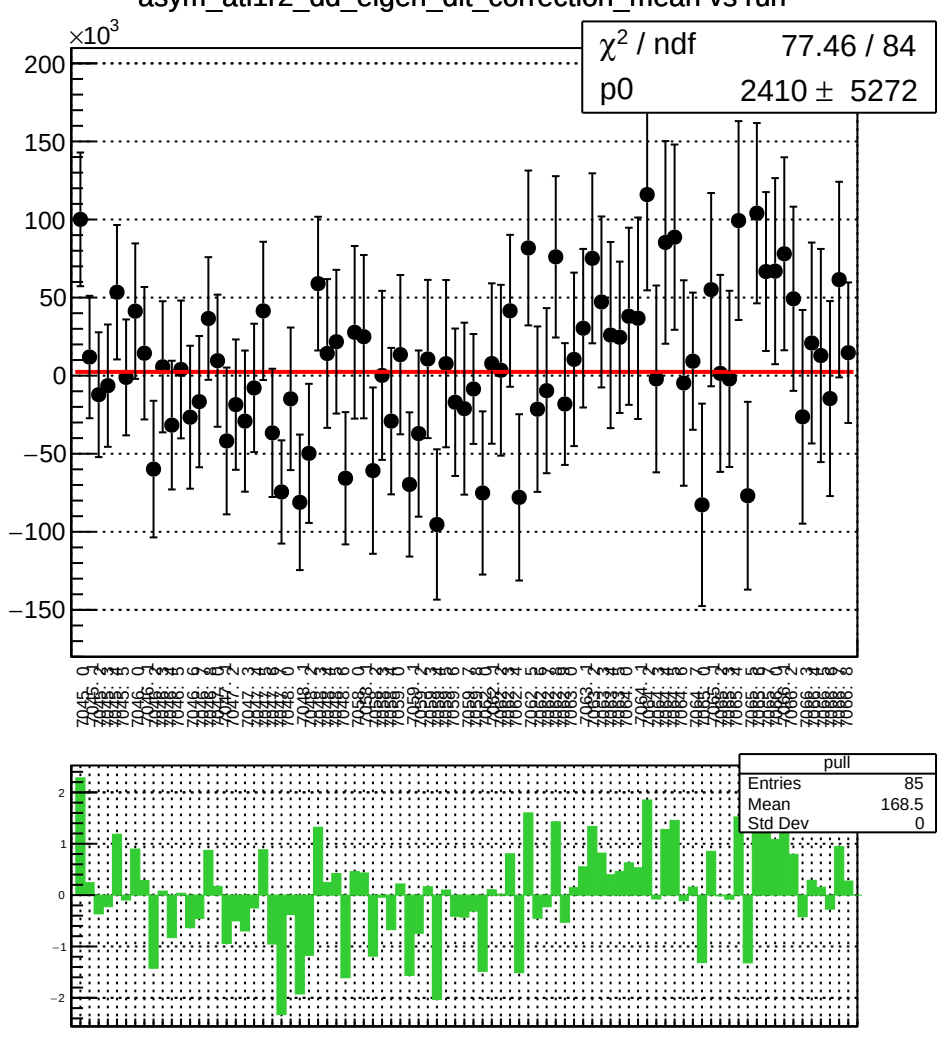

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.46 / 84
p0 2410 ± 5272
pull
Entries 85
Mean 168.5
Std Dev 0

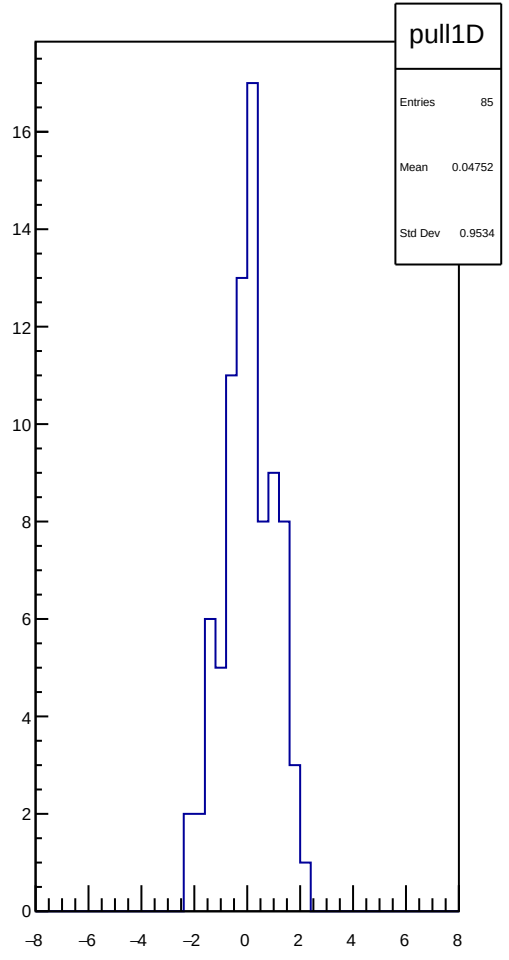

pull1D
Entries 85
Mean 0.04752
Std Dev 0.9534

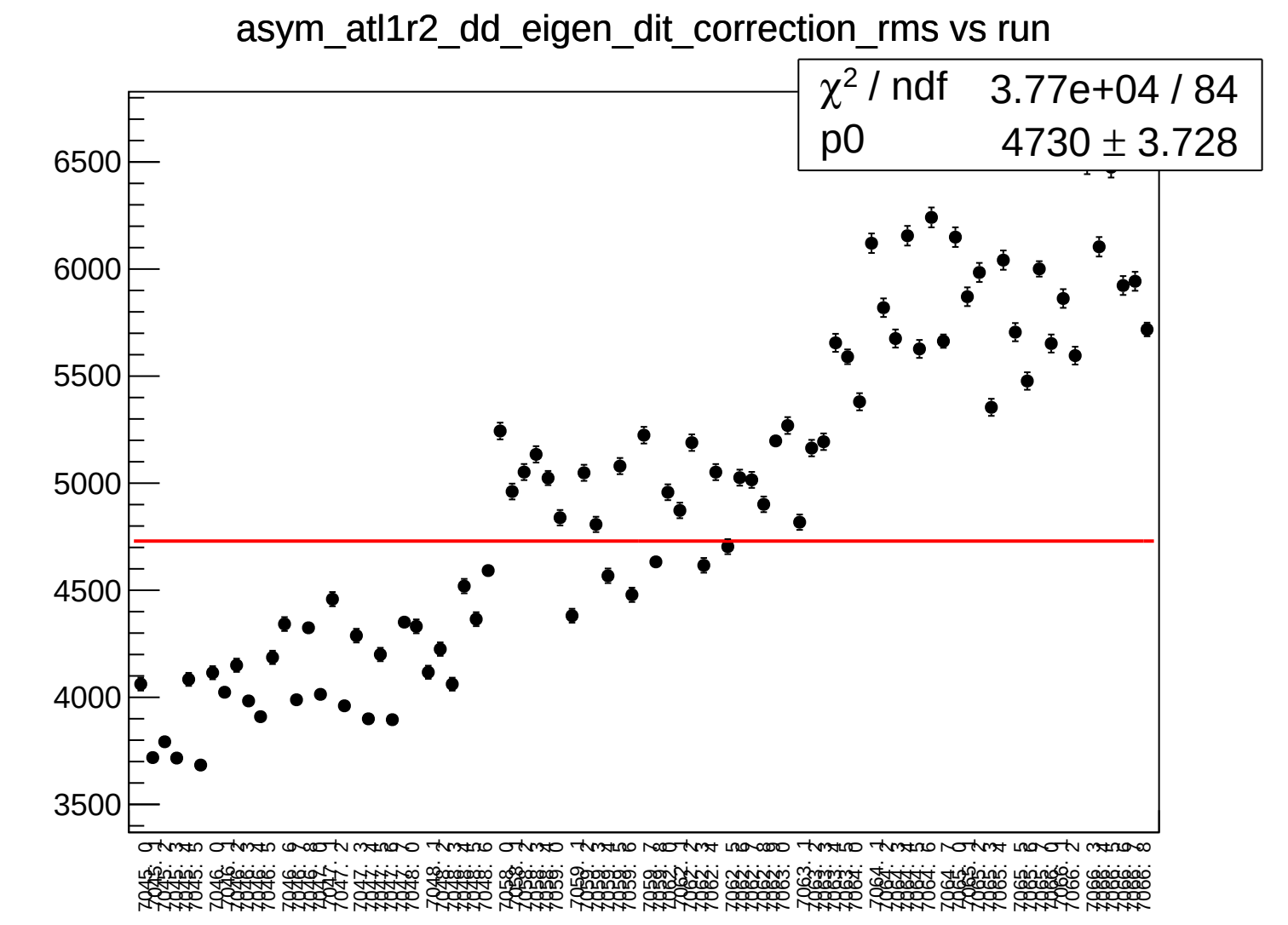

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3.77e+04 / 84
p0 4730 ± 3.728
6500
6000
5500
5000
4500
4000
3500

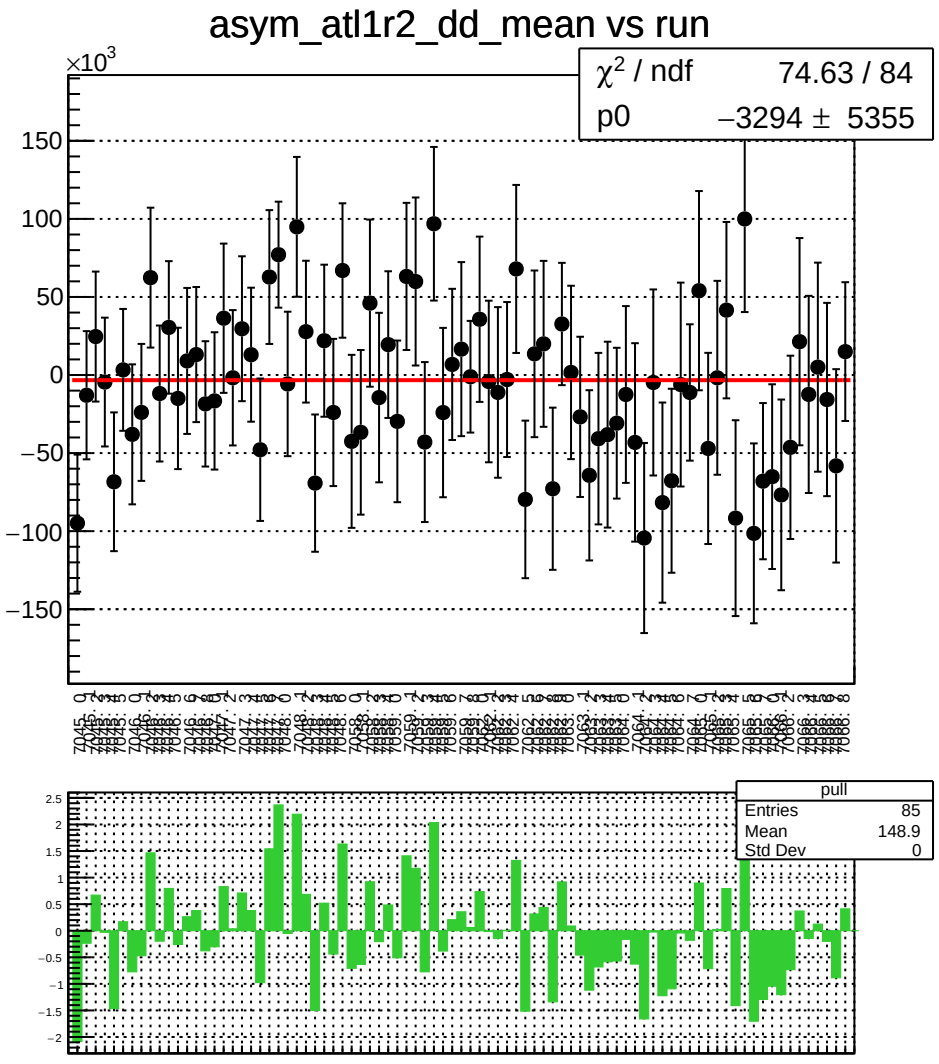

eigen_dit_asym_atl1r2_dd_mean vs run
χ^2 / ndf 62.97 / 84
p0 −137 ± 1882
pull
Entries 85
Mean −378.8
Std Dev 0
pull1D
Entries 85
Mean −0.01018
Std Dev 0.8606

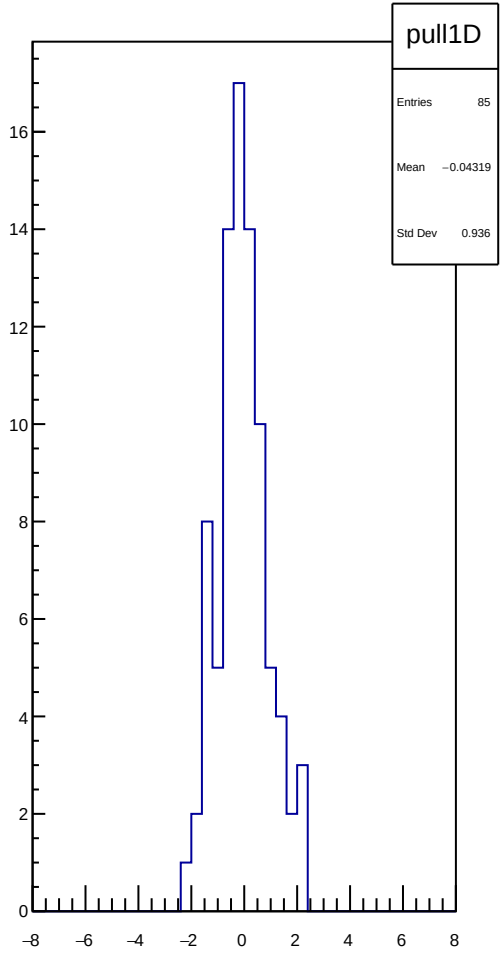

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 289 / 84
p0 1708 ± 1.331
1780
1760
1740
1720
1700
1680
1660
1640

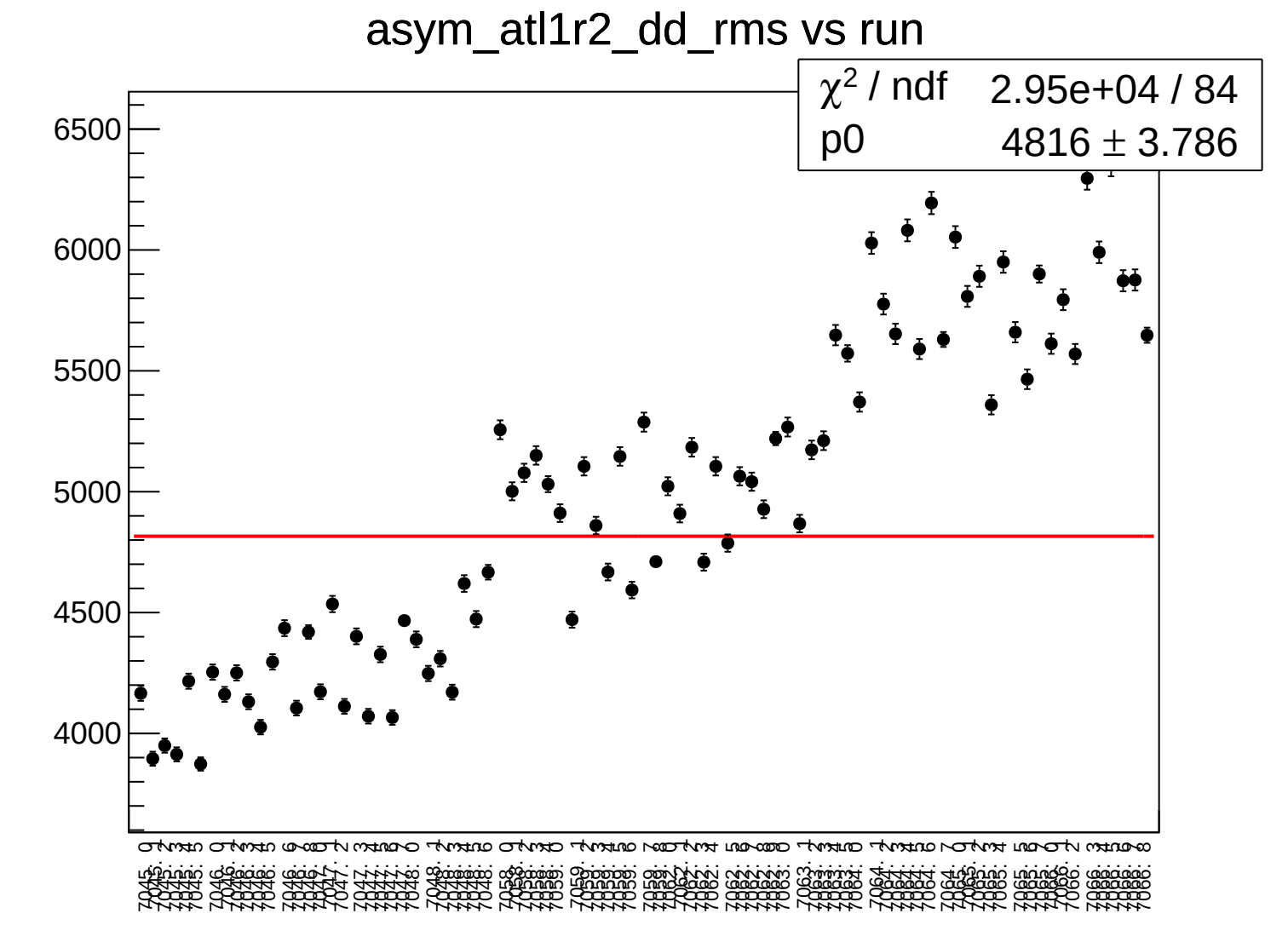

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.46 / 84
p0 2410 ± 5272
pull
Entries 85
Mean 168.5
Std Dev 0

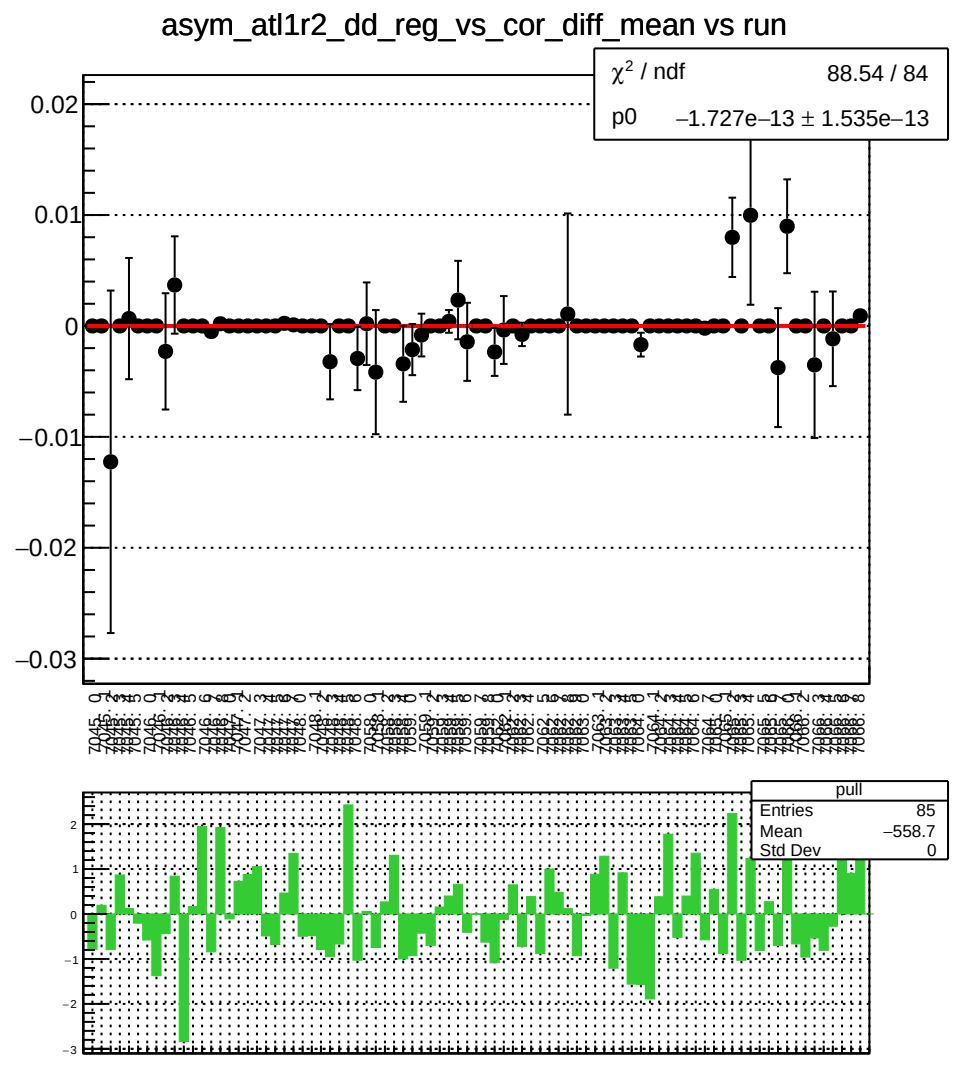

pull1D
Entries 85
Mean 0.04752
Std Dev 0.9534

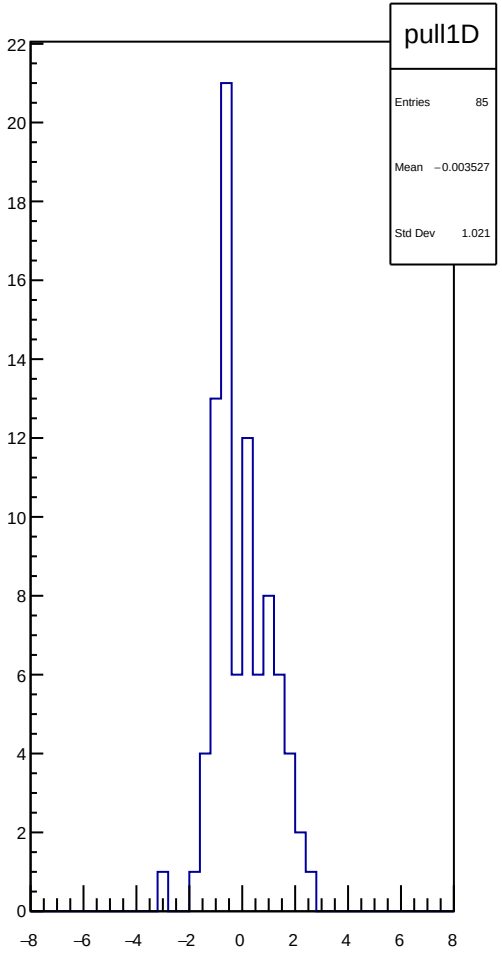

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.77e+04 / 84
p0 4730 ± 3.728
6500
6000
5500
5000
4500
4000
3500

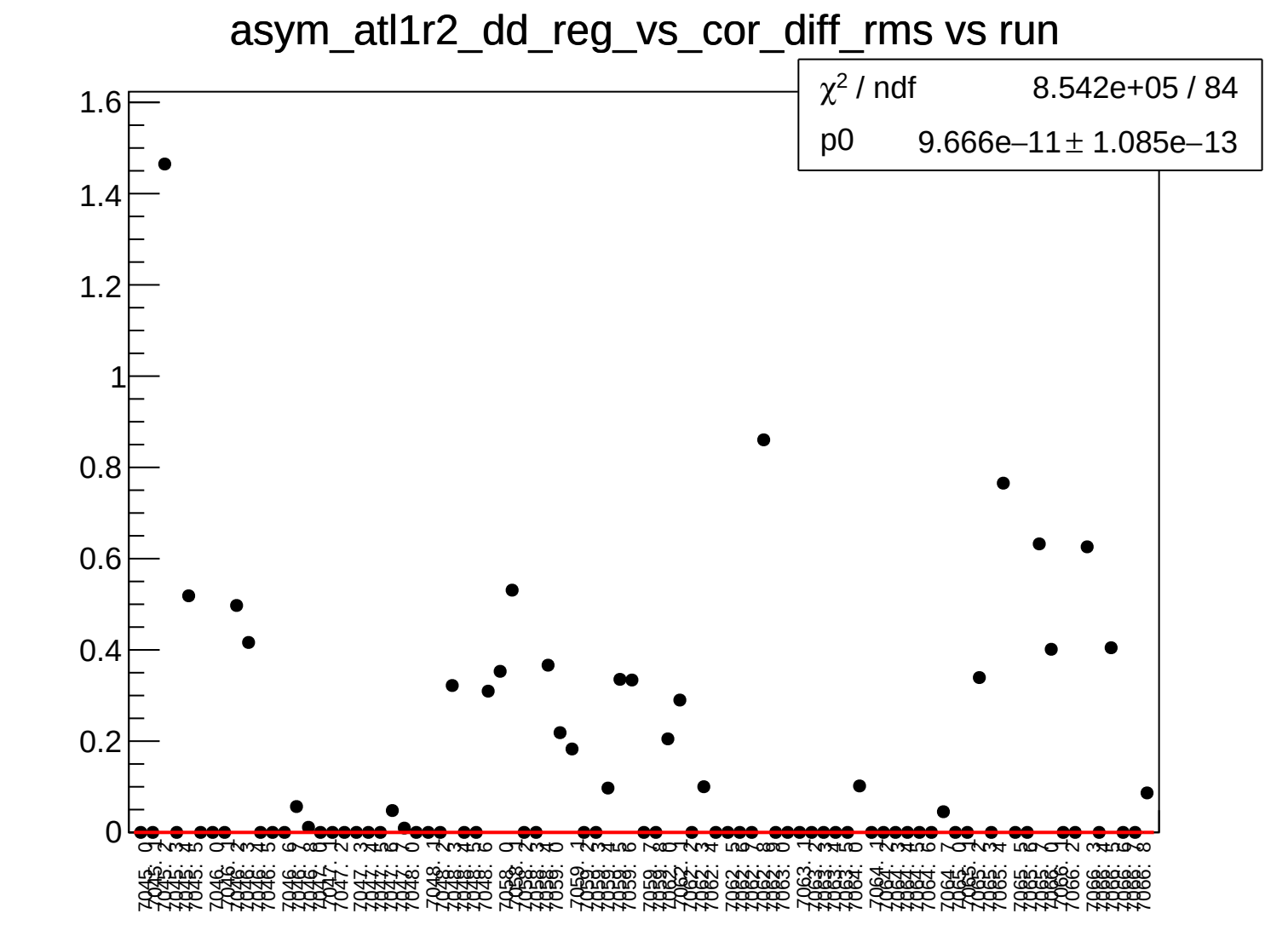

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 74.63 / 84
p0 −3294 ± 5355
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 148.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

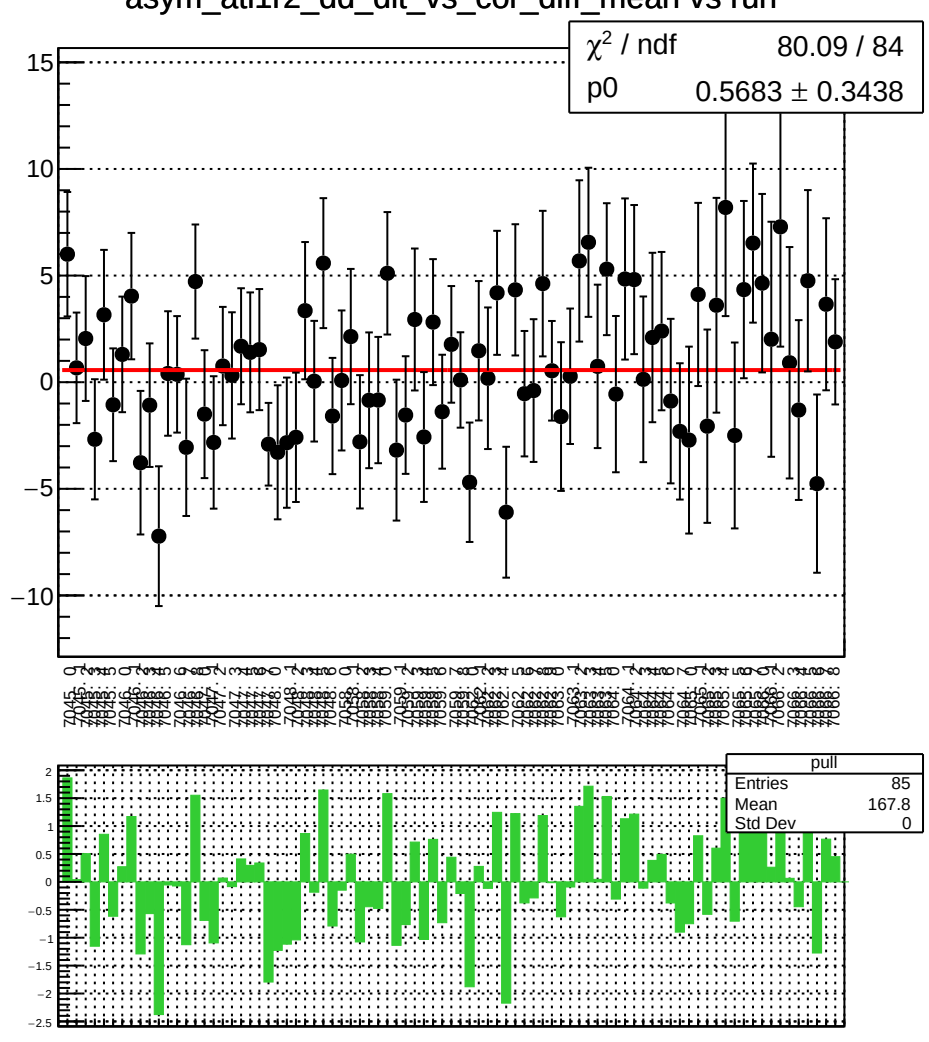

pull1D
Entries 85
Mean −0.04319
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

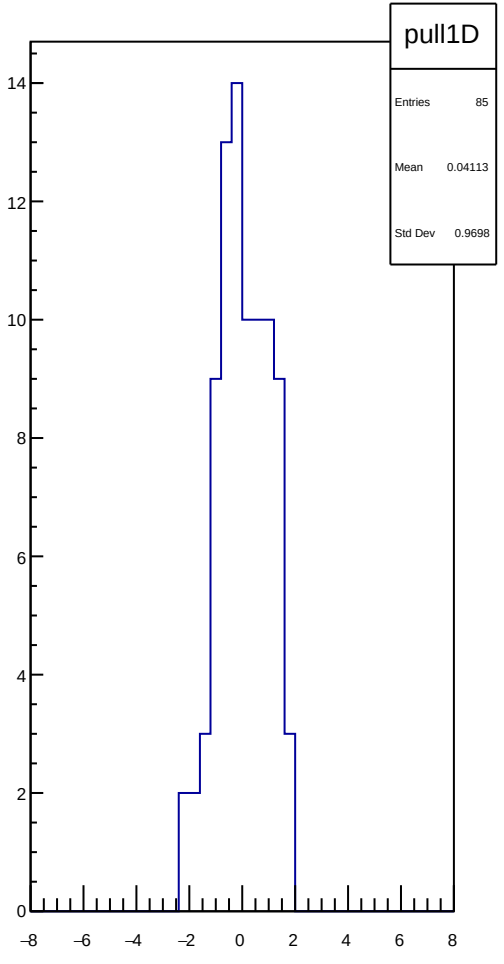

asym_atl1r2_dd_rms vs run
χ² / ndf 2.95e+04 / 84
p0 4816 ± 3.786
6500
6000
5500
5000
4500
4000

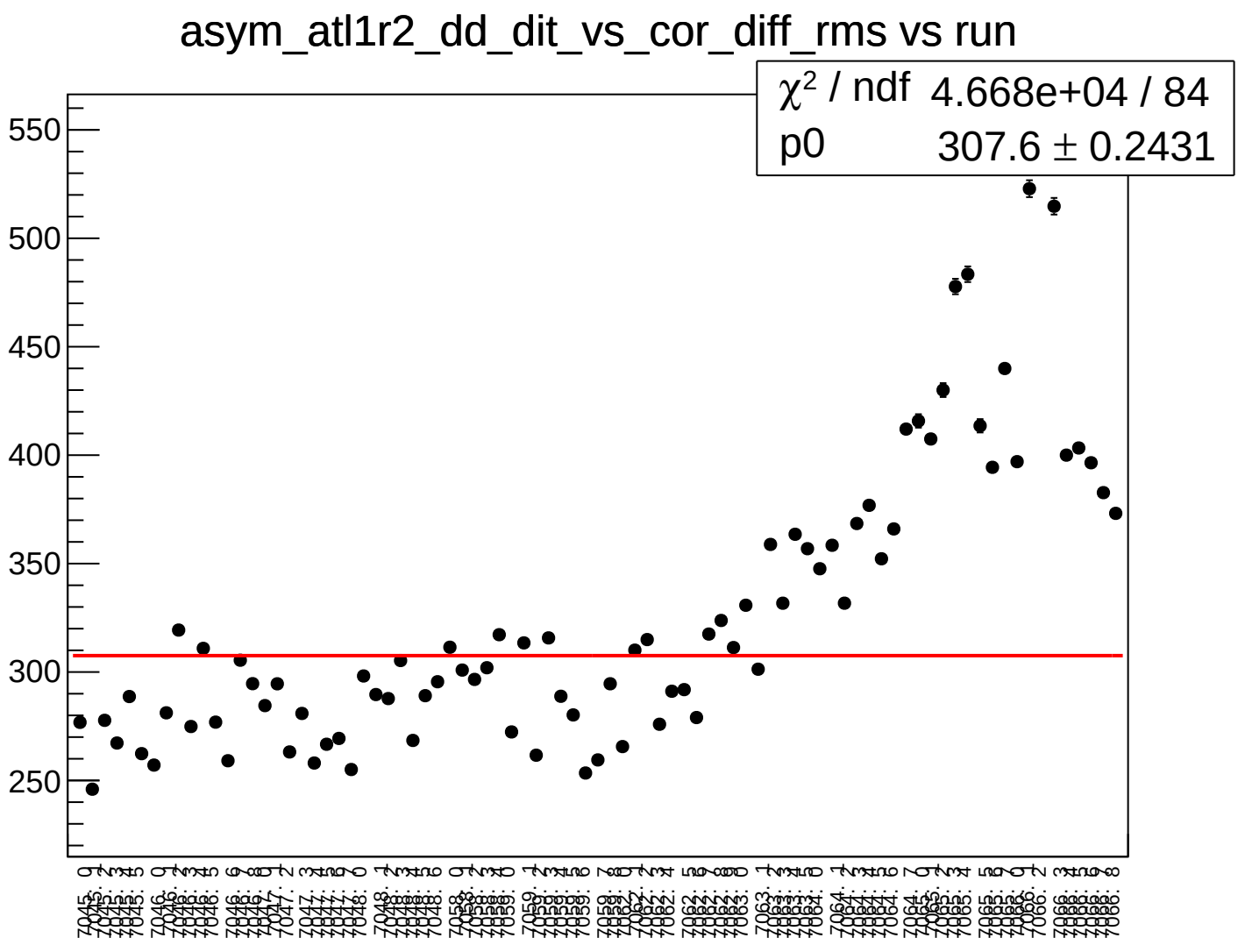

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 84
p0 −1.727e−13 ± 1.535e−13
pull
Entries 85
Mean −558.7
Std Dev 0

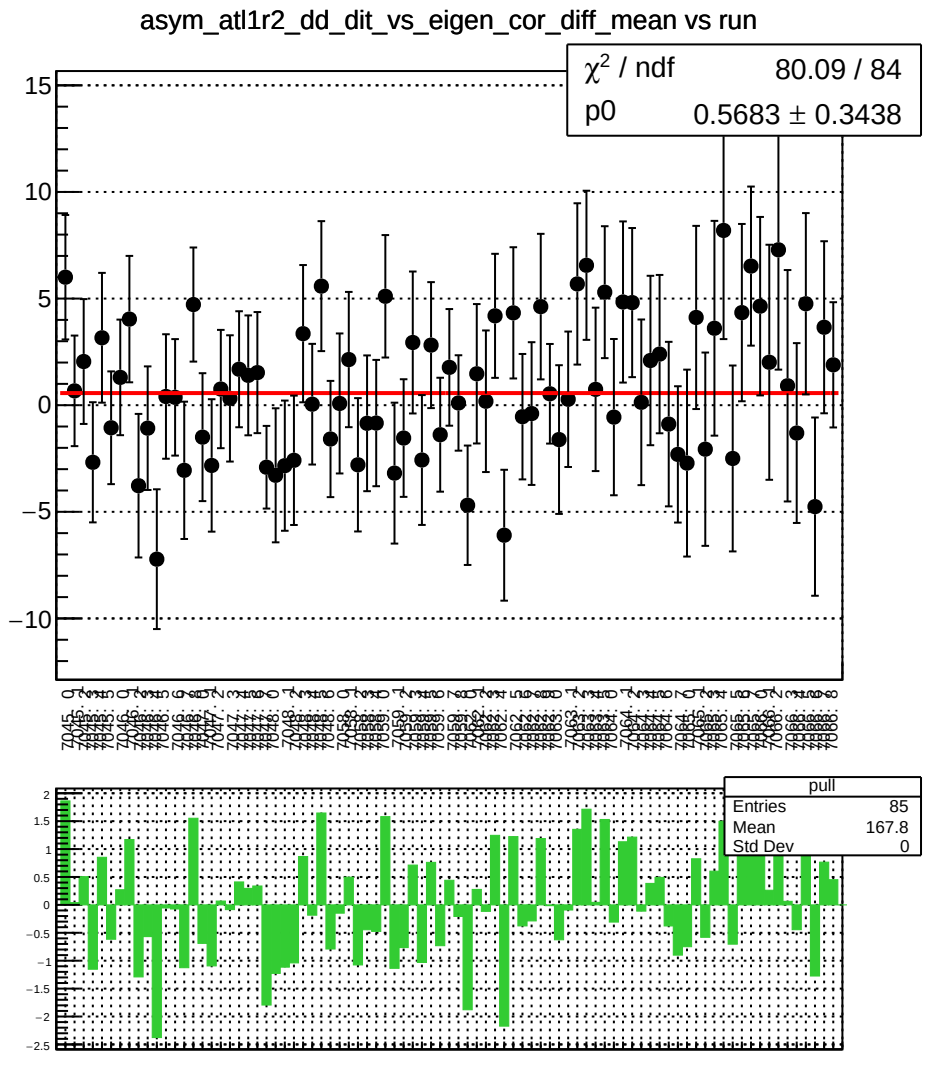

pull1D
Entries 85
Mean −0.003527
Std Dev 1.021

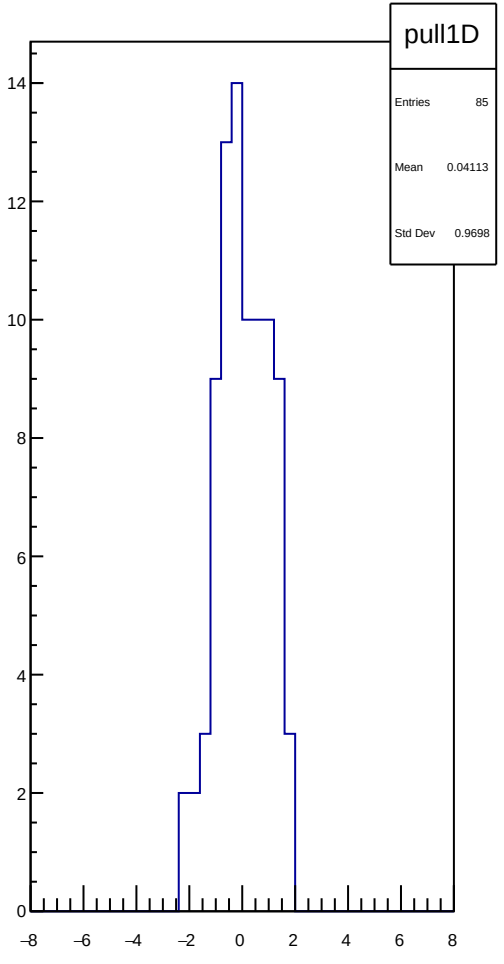

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.542e+05 / 84
p0 9.666e−11 ± 1.085e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

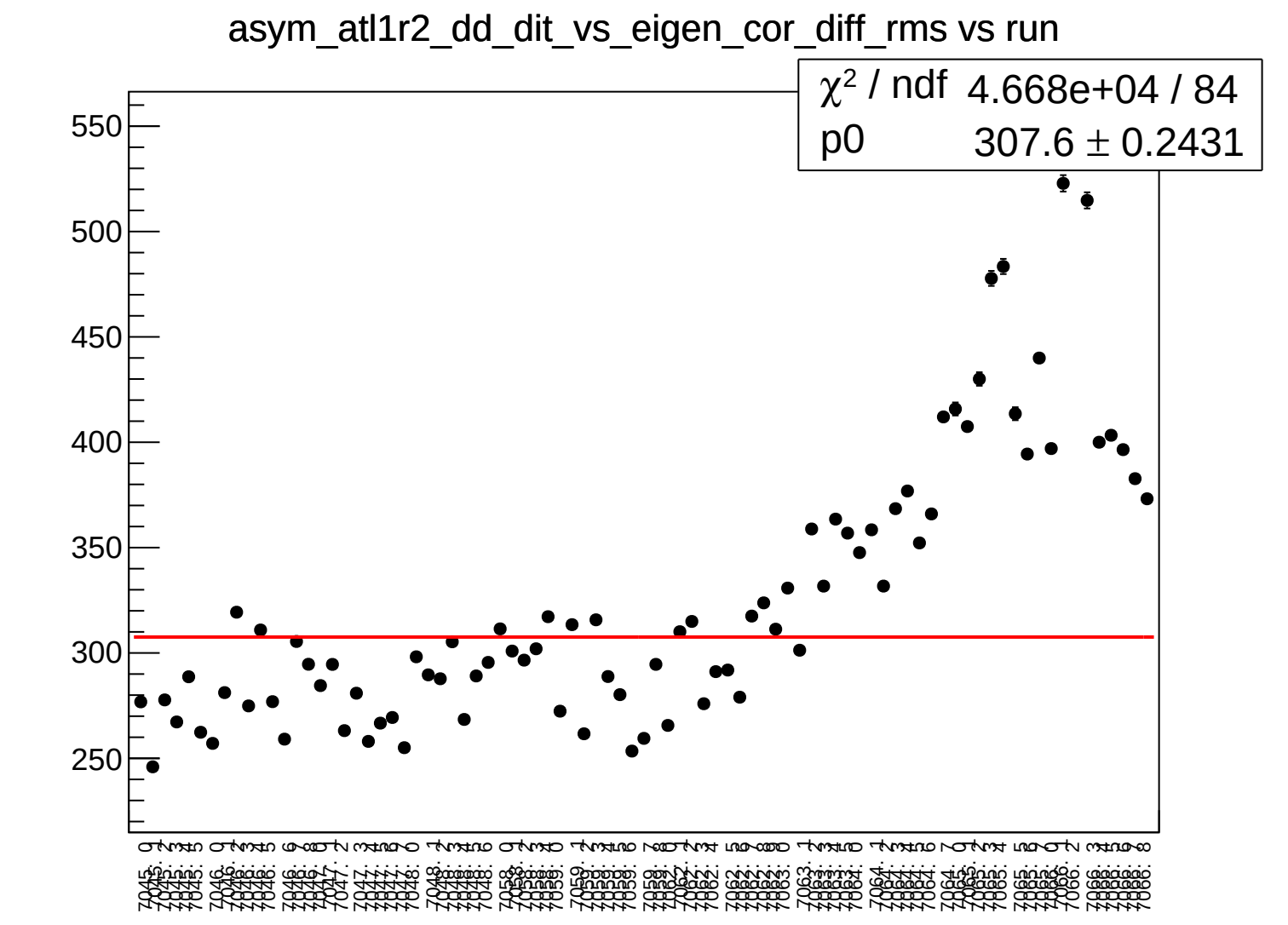

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 84
p0 0.5683 ± 0.3438
pull
Entries 85
Mean 167.8
Std Dev 0

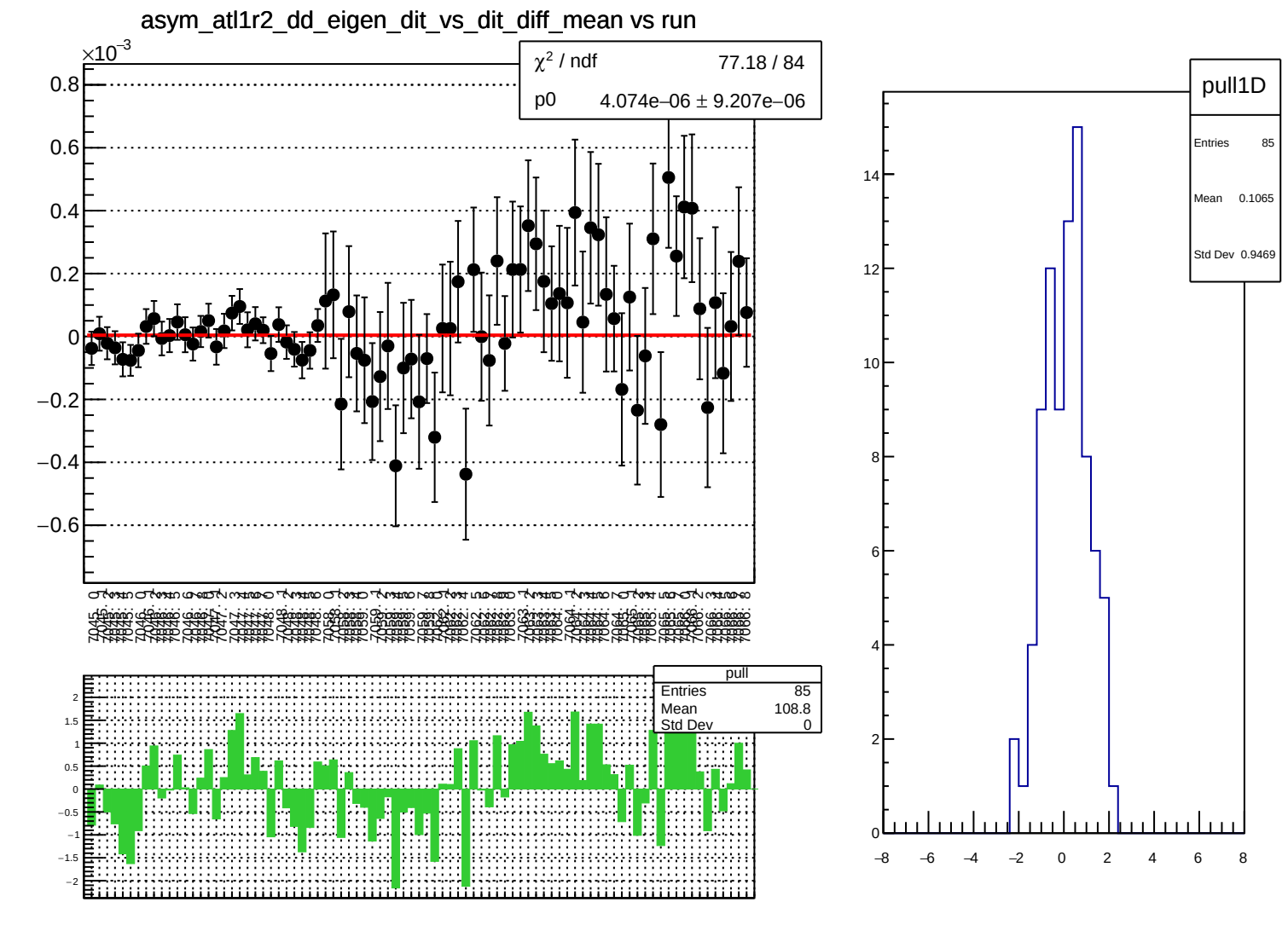

pull1D
Entries 85
Mean 0.04113
Std Dev 0.9698

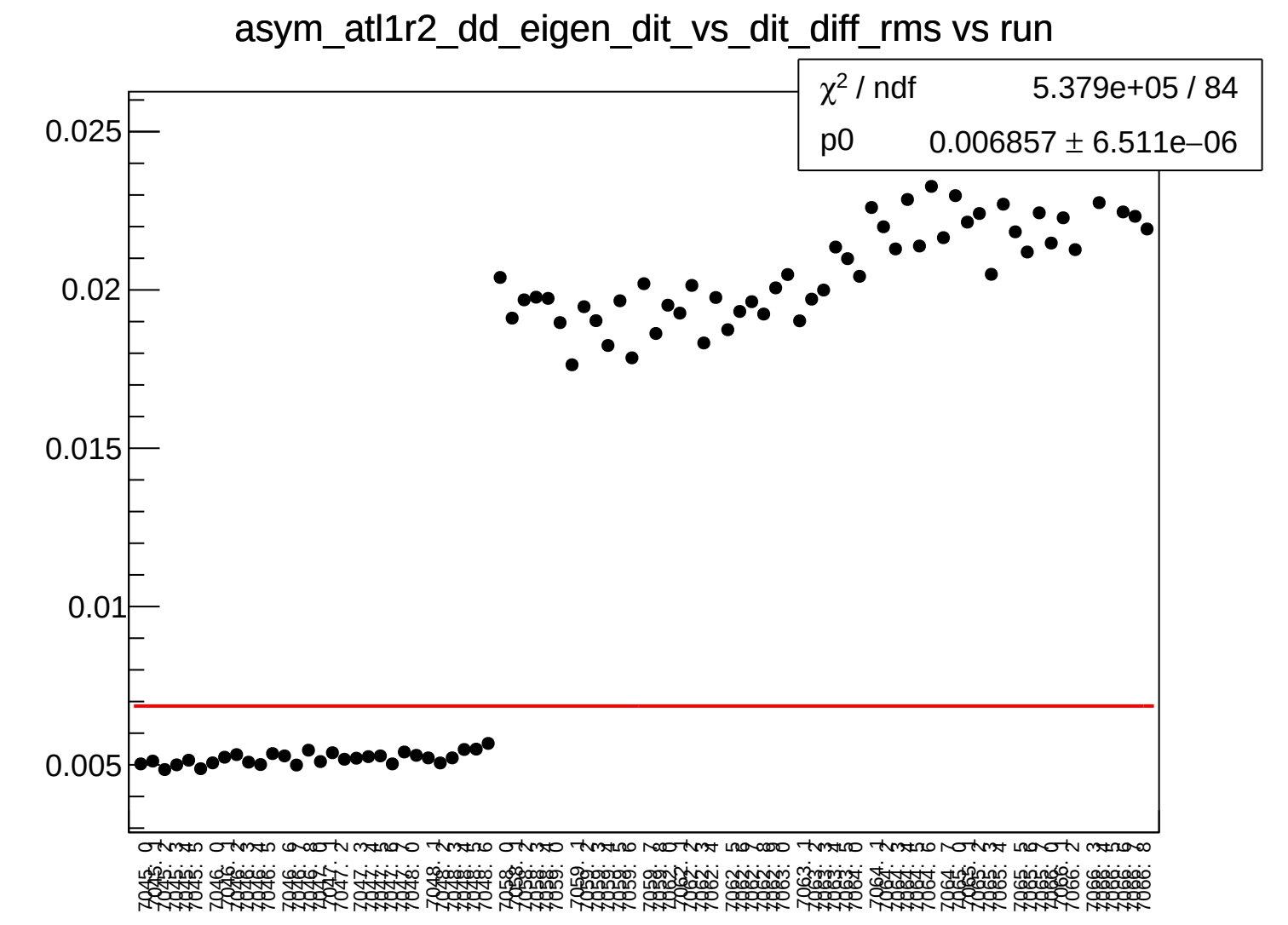

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.668e+04 / 84
p0 307.6 ± 0.2431
550
500
450
400
350
300
250

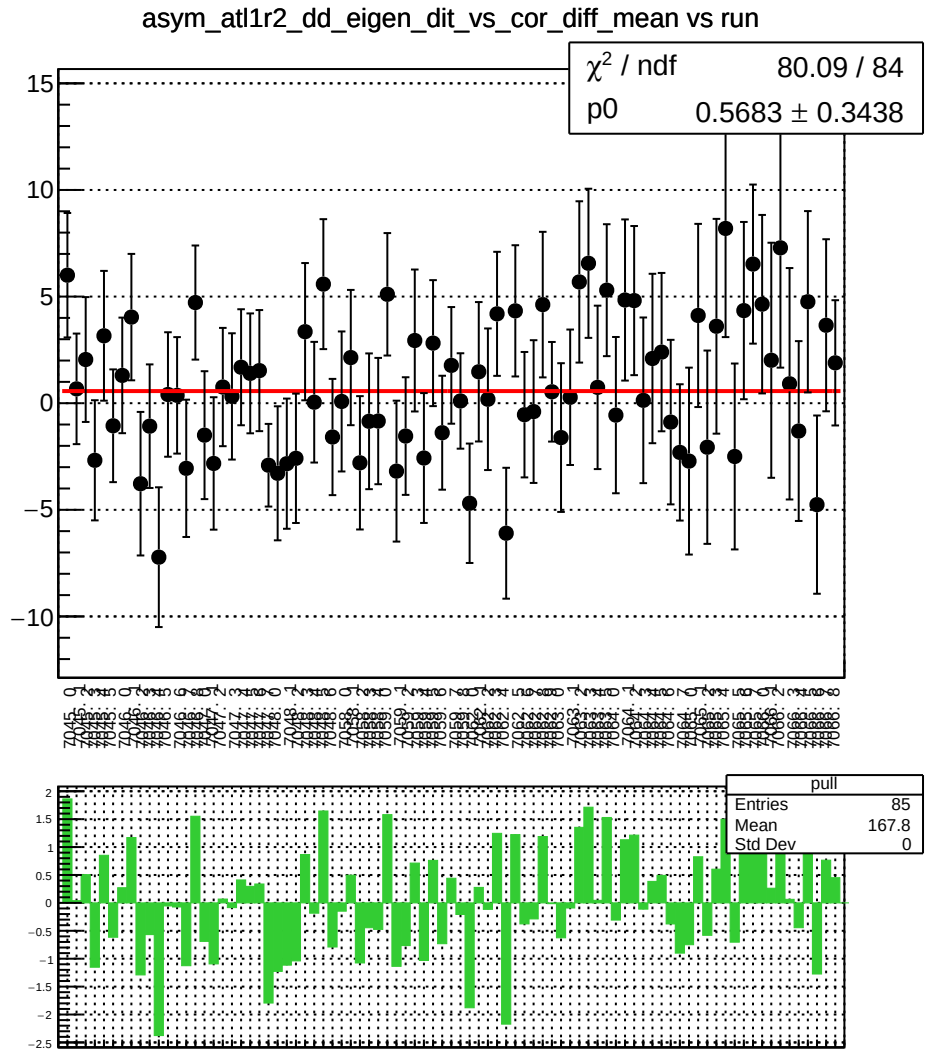

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 84
p0 0.5683 ± 0.3438
pull
Entries 85
Mean 167.8
Std Dev 0

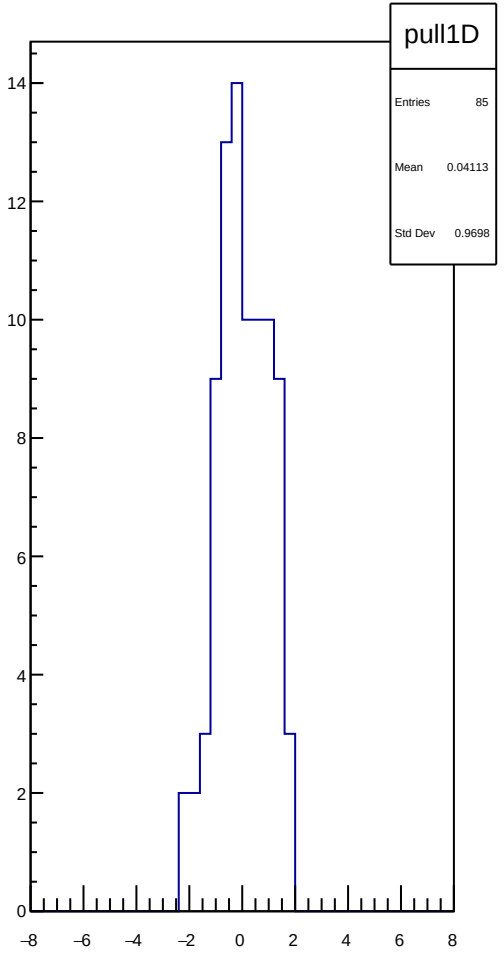

pull1D
Entries 85
Mean 0.04113
Std Dev 0.9698

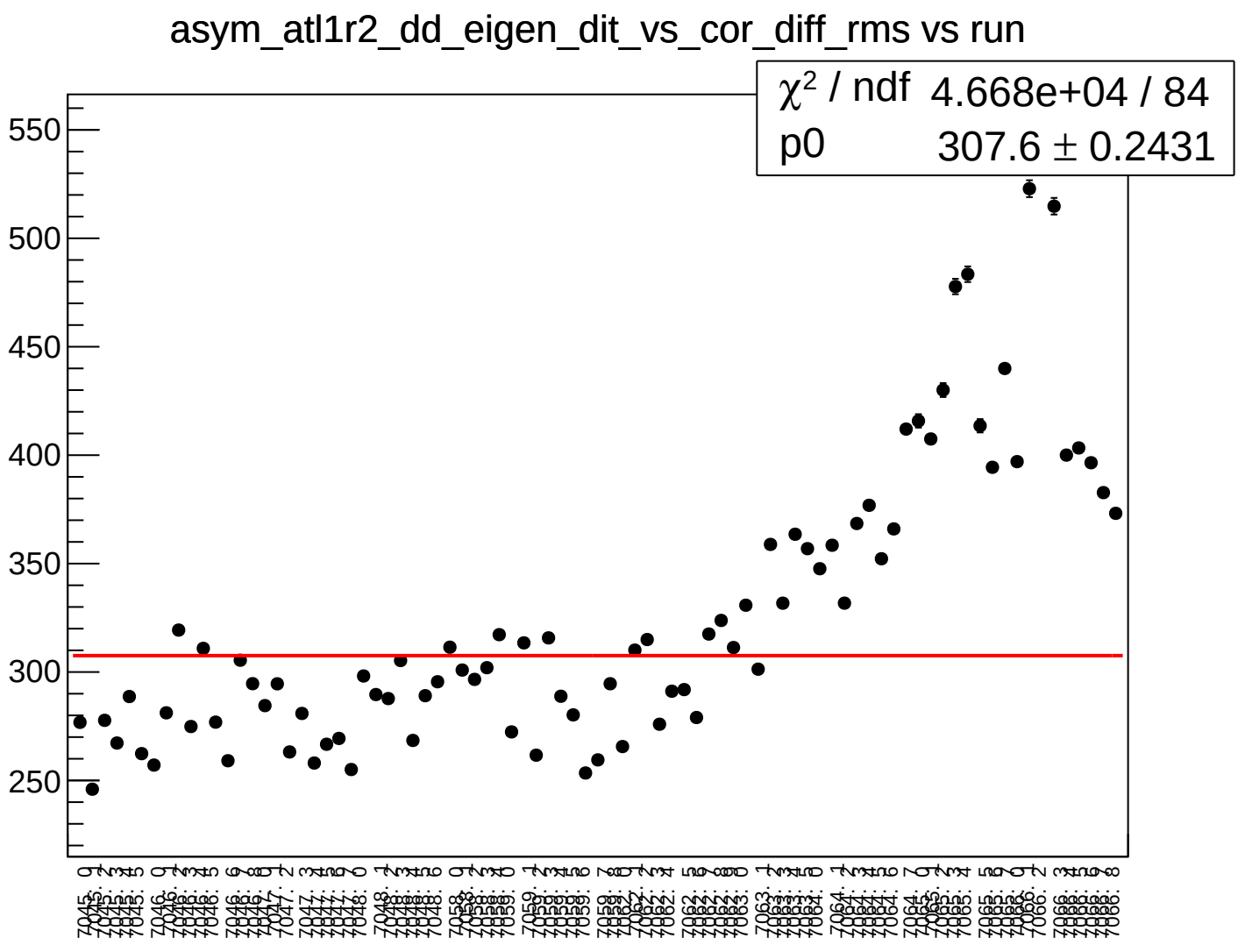

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.668e+04 / 84
p0 307.6 ± 0.2431
550
500
450
400
350
300
250

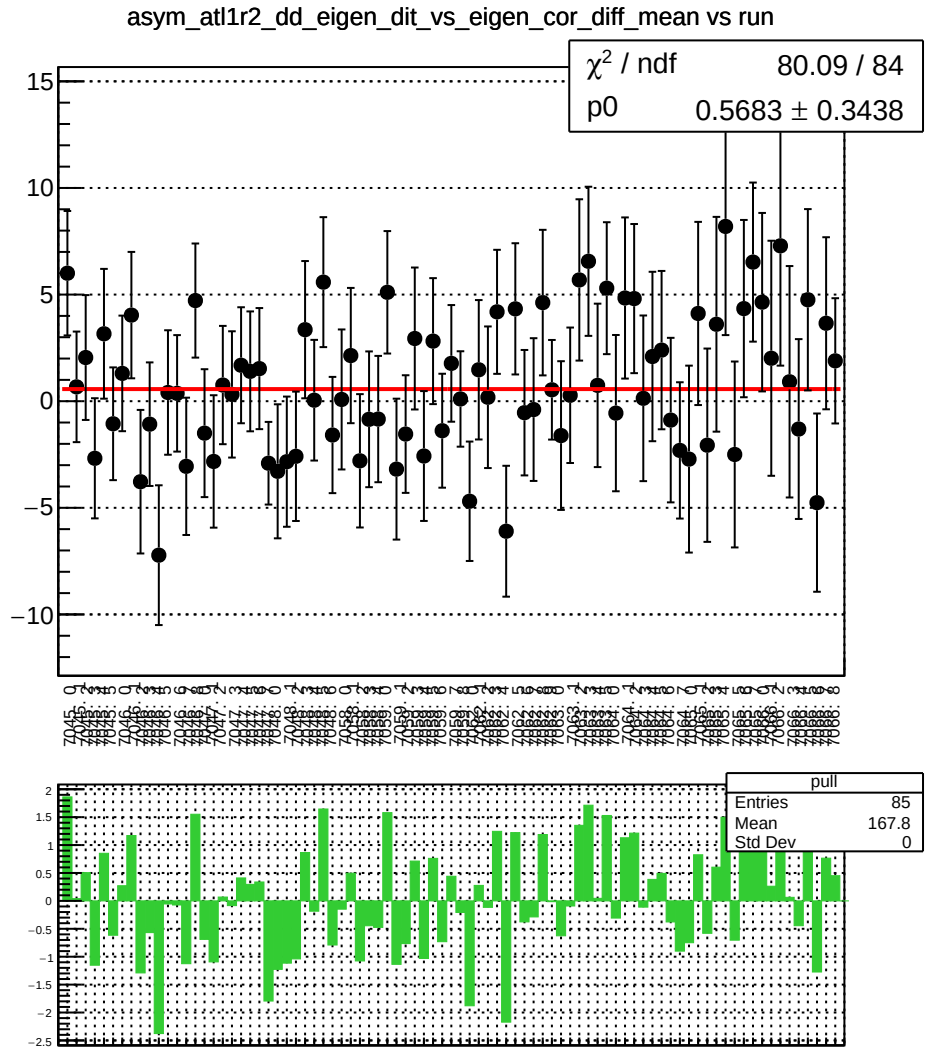

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.18 / 84
p0 4.074e−06 ± 9.207e−06
pull
Entries 85
Mean 108.8
Std Dev 0
pull1D
Entries 85
Mean 0.1065
Std Dev 0.9469

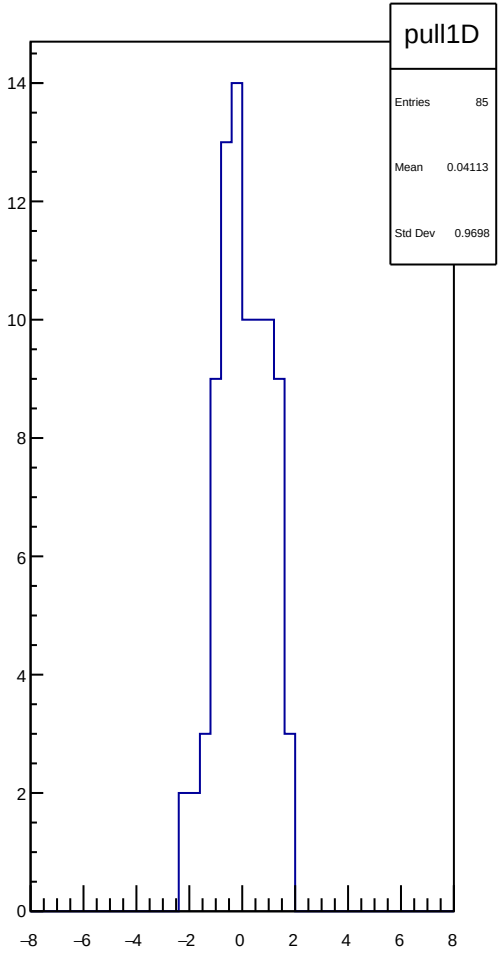

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.379e+05 / 84
p0 0.006857 ± 6.511e−06
0.025
0.02
0.015
0.01
0.005

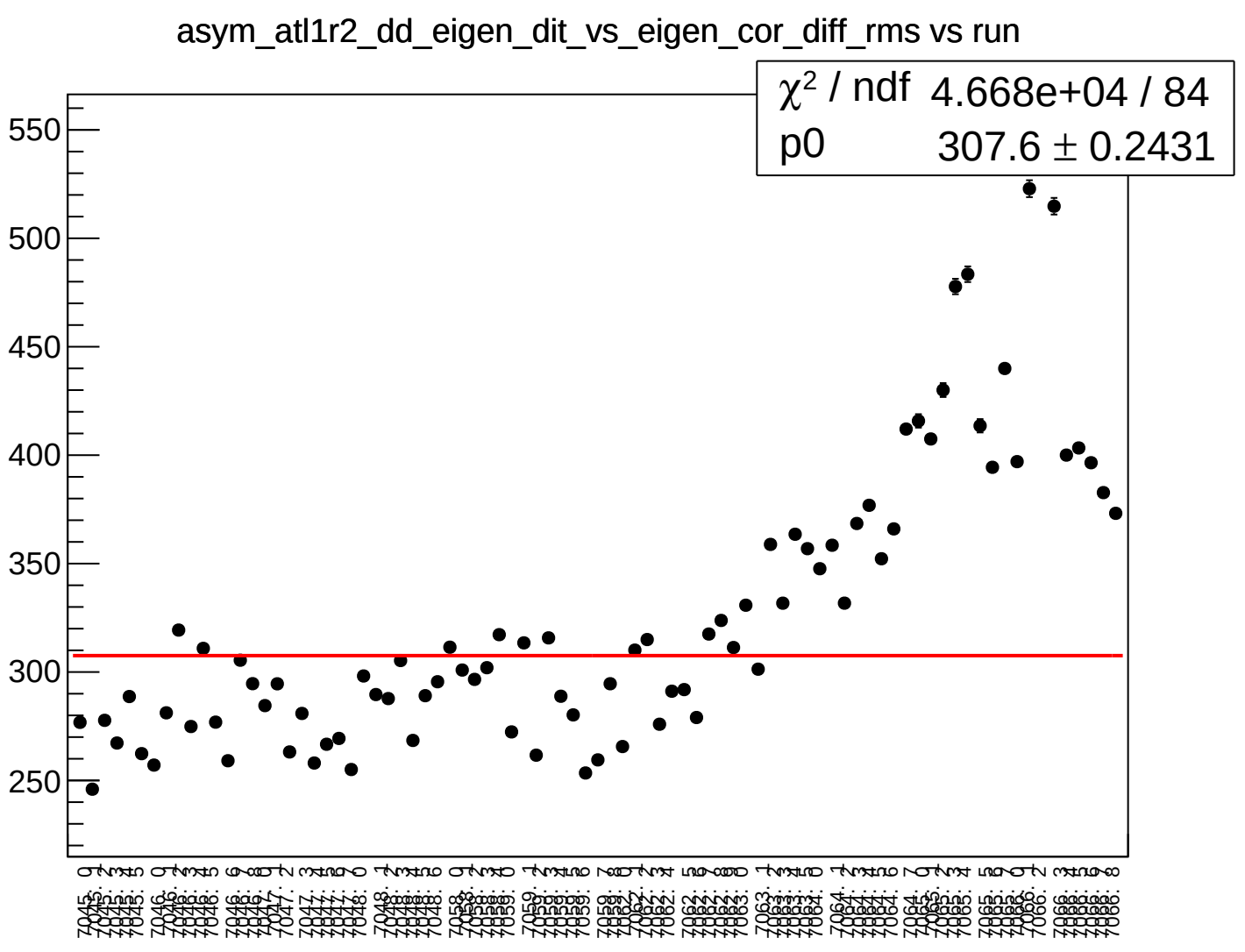

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 84
p0 0.5683 ± 0.3438
pull
Entries 85
Mean 167.8
Std Dev 0

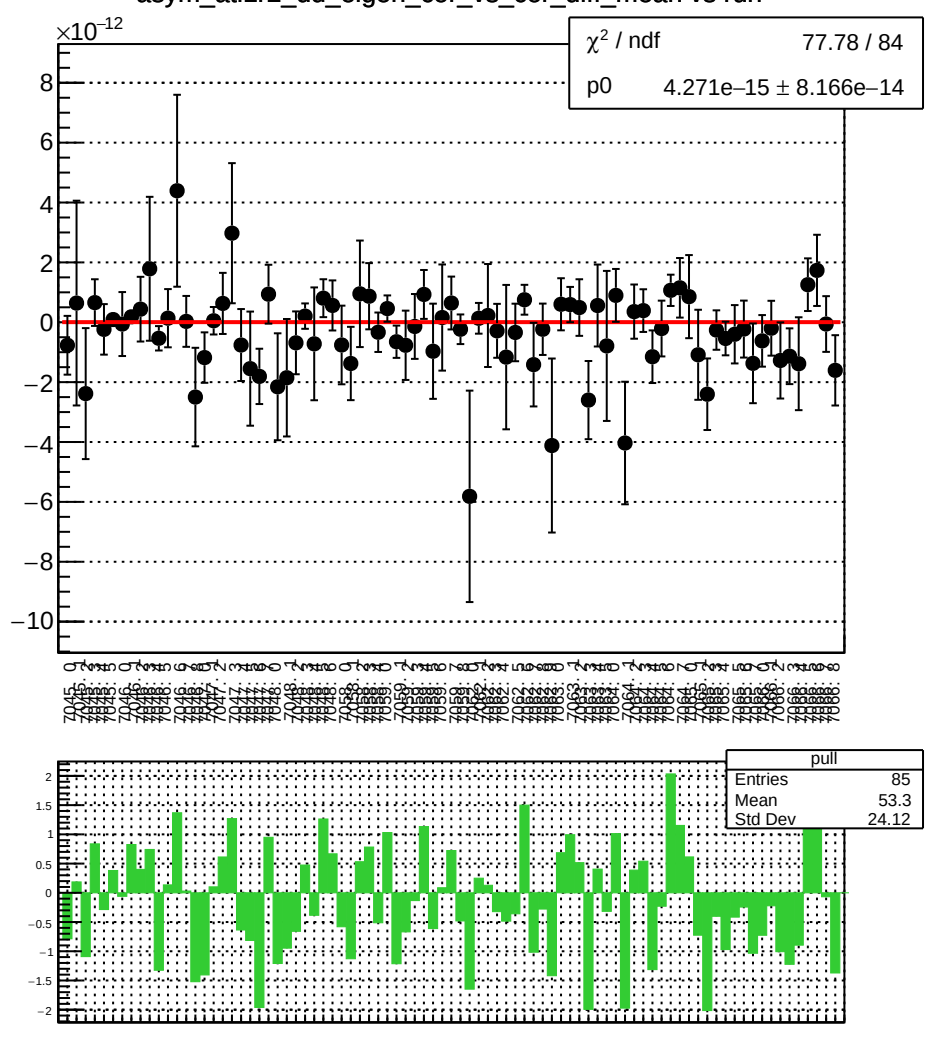

pull1D
Entries 85
Mean 0.04113
Std Dev 0.9698

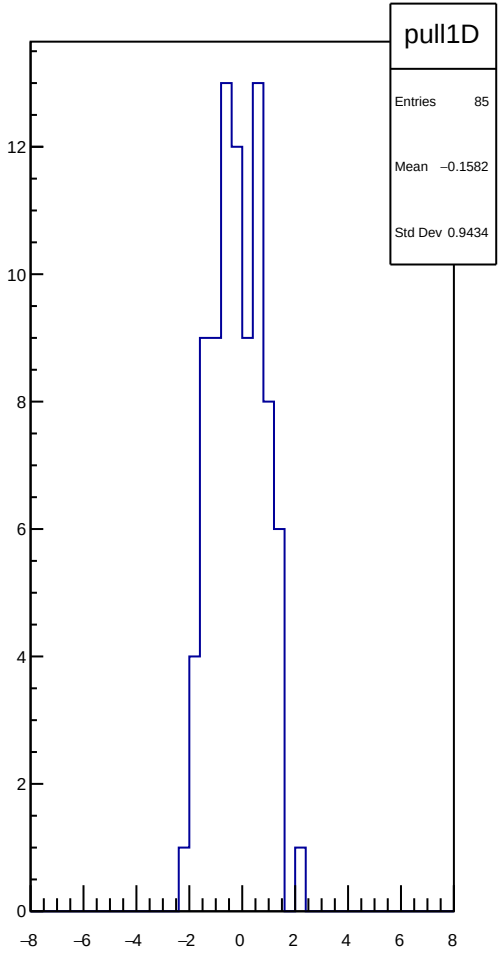

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.668e+04 / 84
p0 307.6 ± 0.2431
550
500
450
400
350
300
250

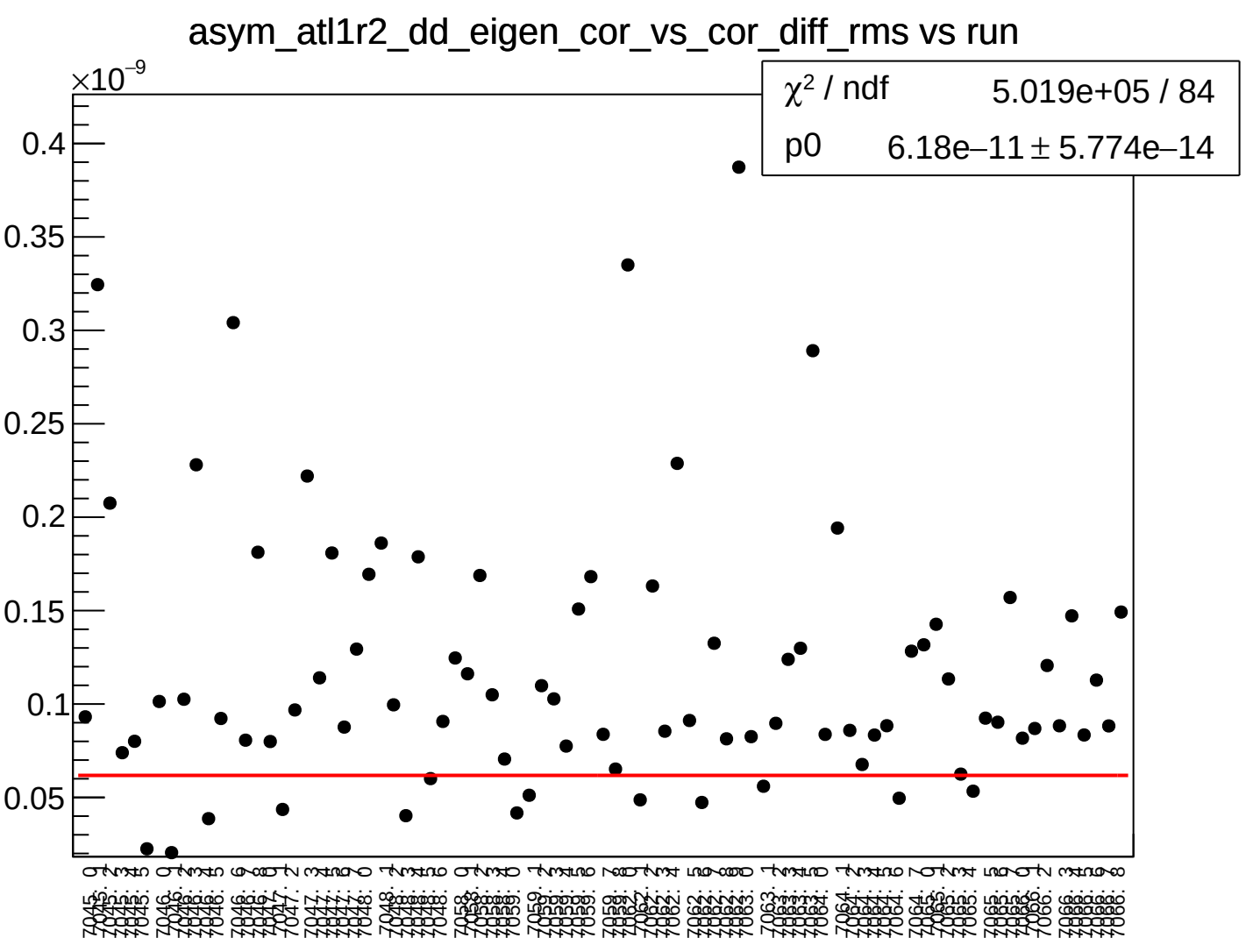

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 84
p0 0.5683 ± 0.3438
pull
Entries 85
Mean 167.8
Std Dev 0

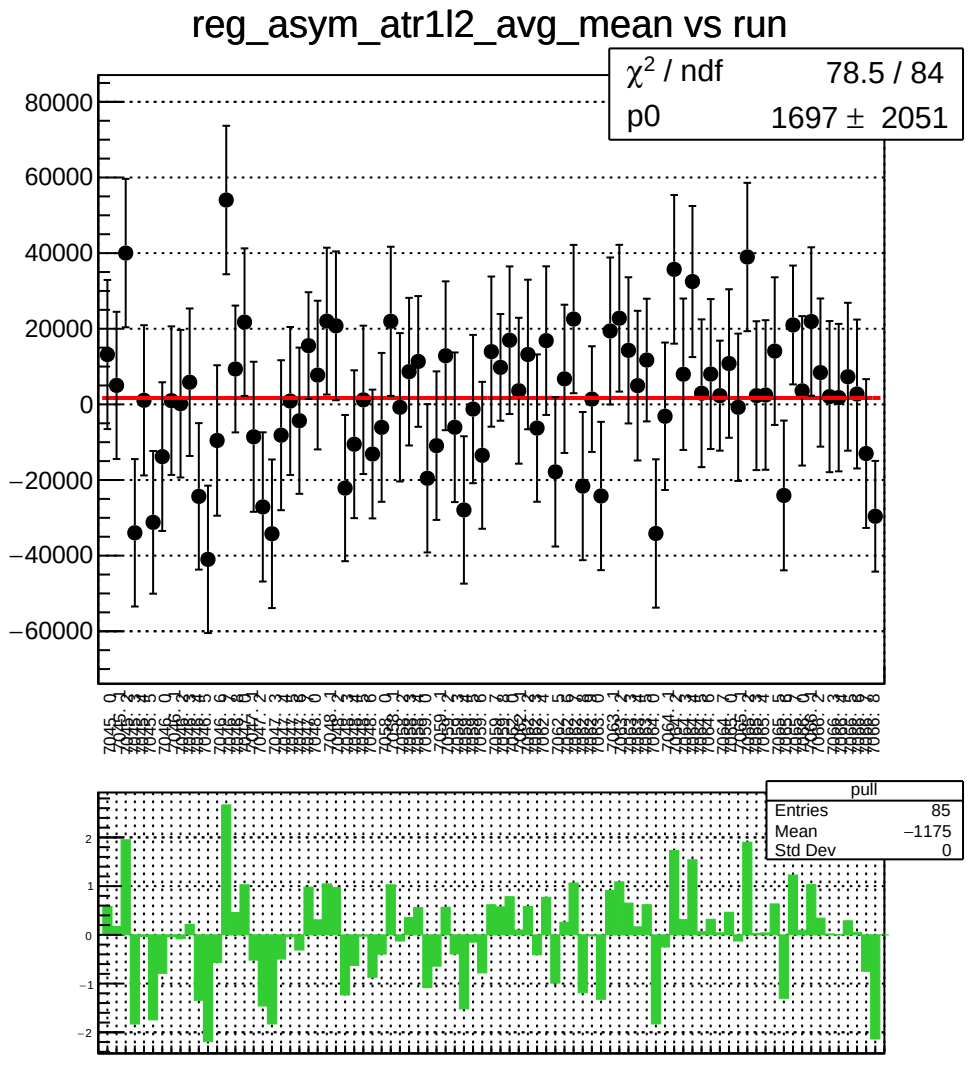

pull1D
Entries 85
Mean 0.04113
Std Dev 0.9698

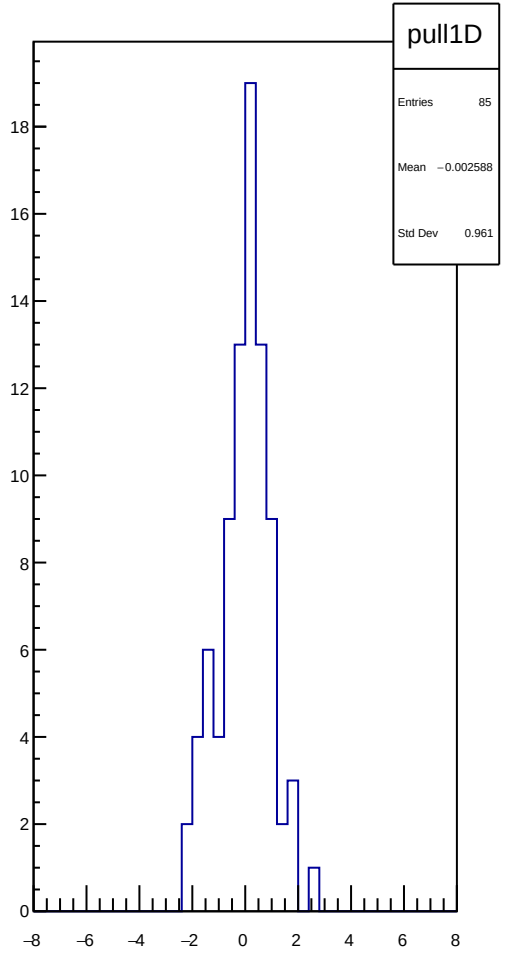

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.668e+04 / 84
p0 307.6 ± 0.2431
550
500
450
400
350
300
250

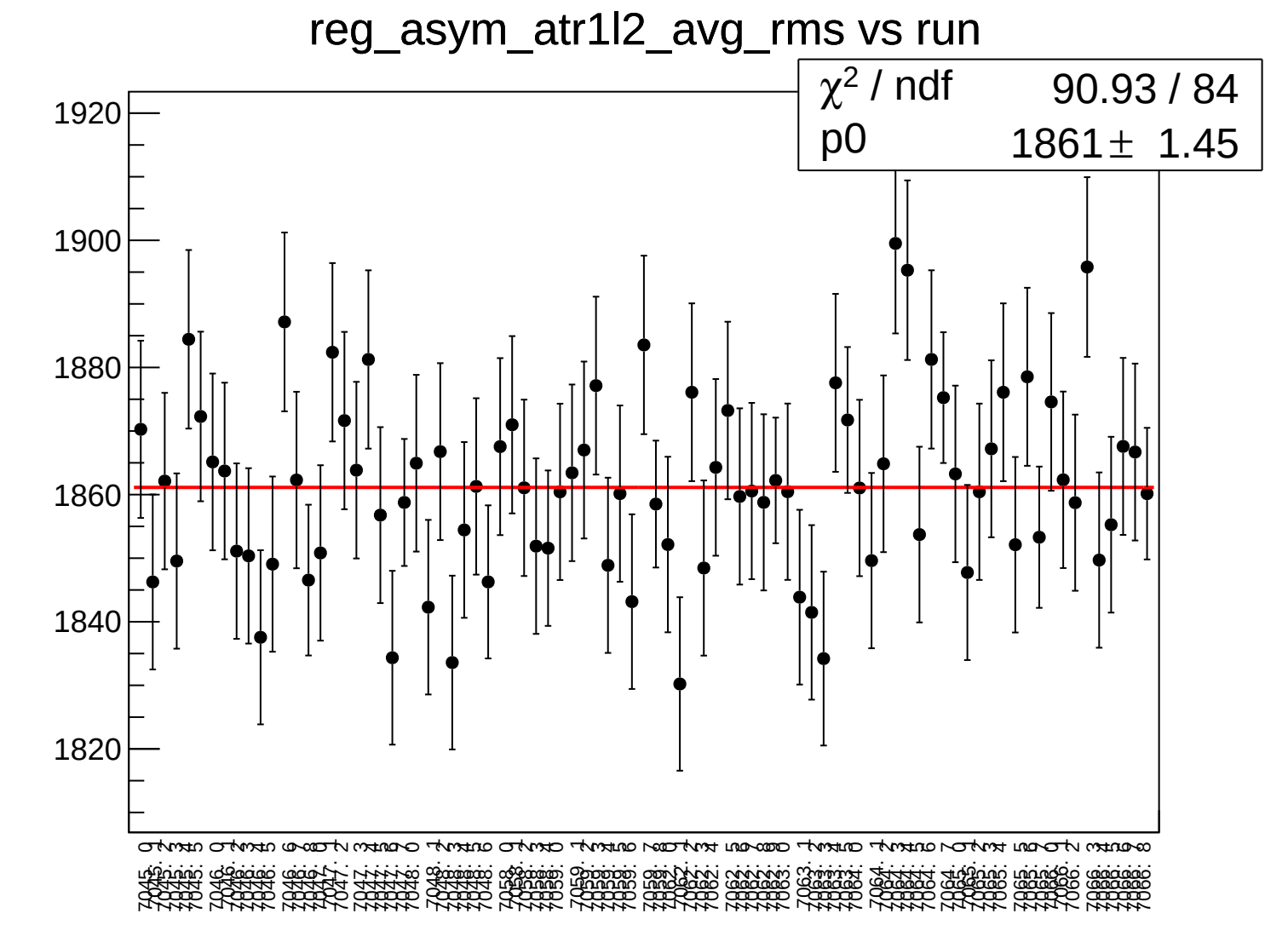

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.78 / 84
p0 4.271e−15 ± 8.166e−14
pull
Entries 85
Mean 53.3
Std Dev 24.12

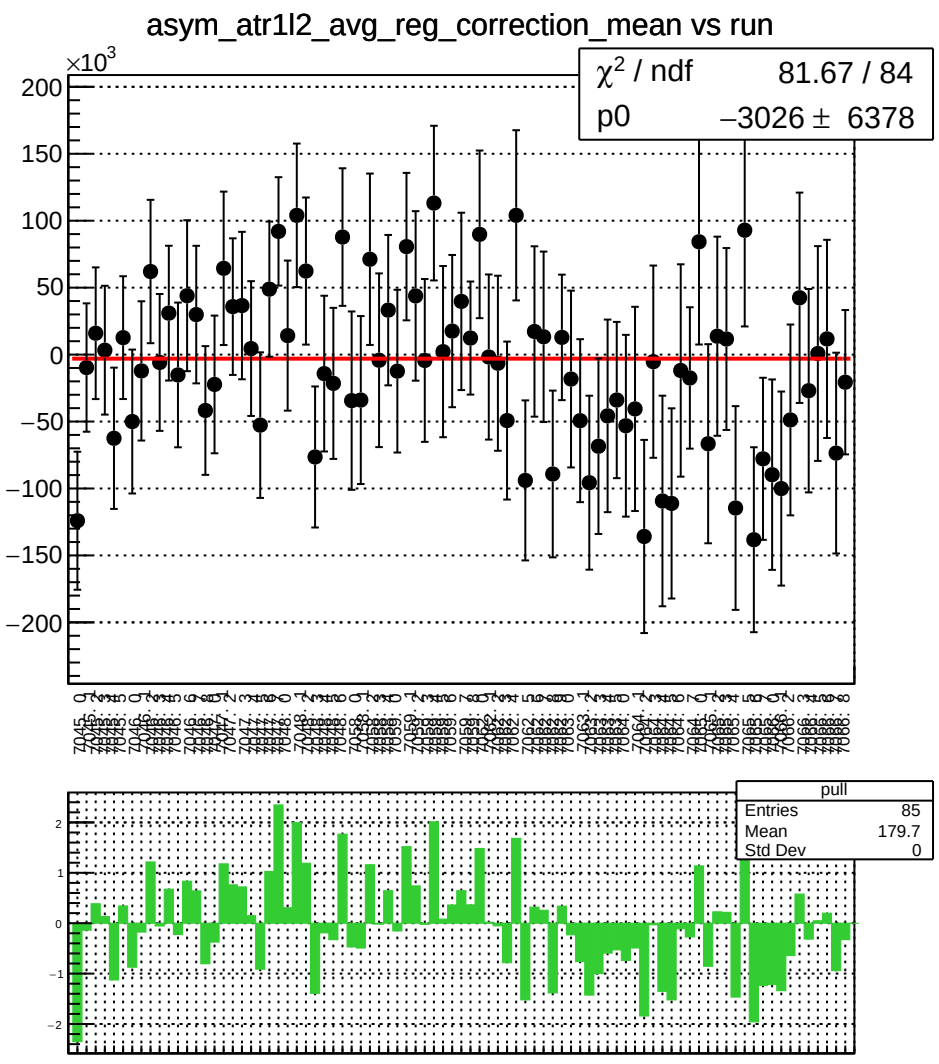

pull1D
Entries 85
Mean −0.1582
Std Dev 0.9434

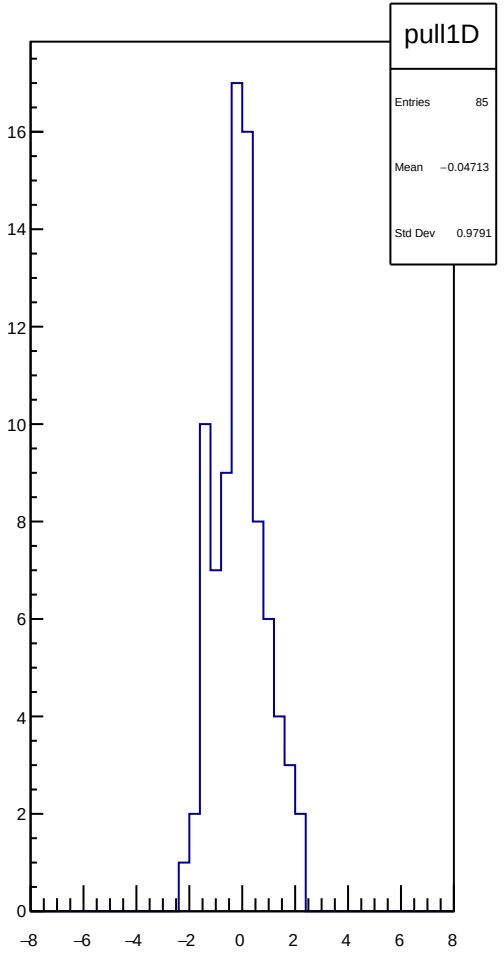

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.019e+05 / 84
p0 6.18e−11 ± 5.774e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

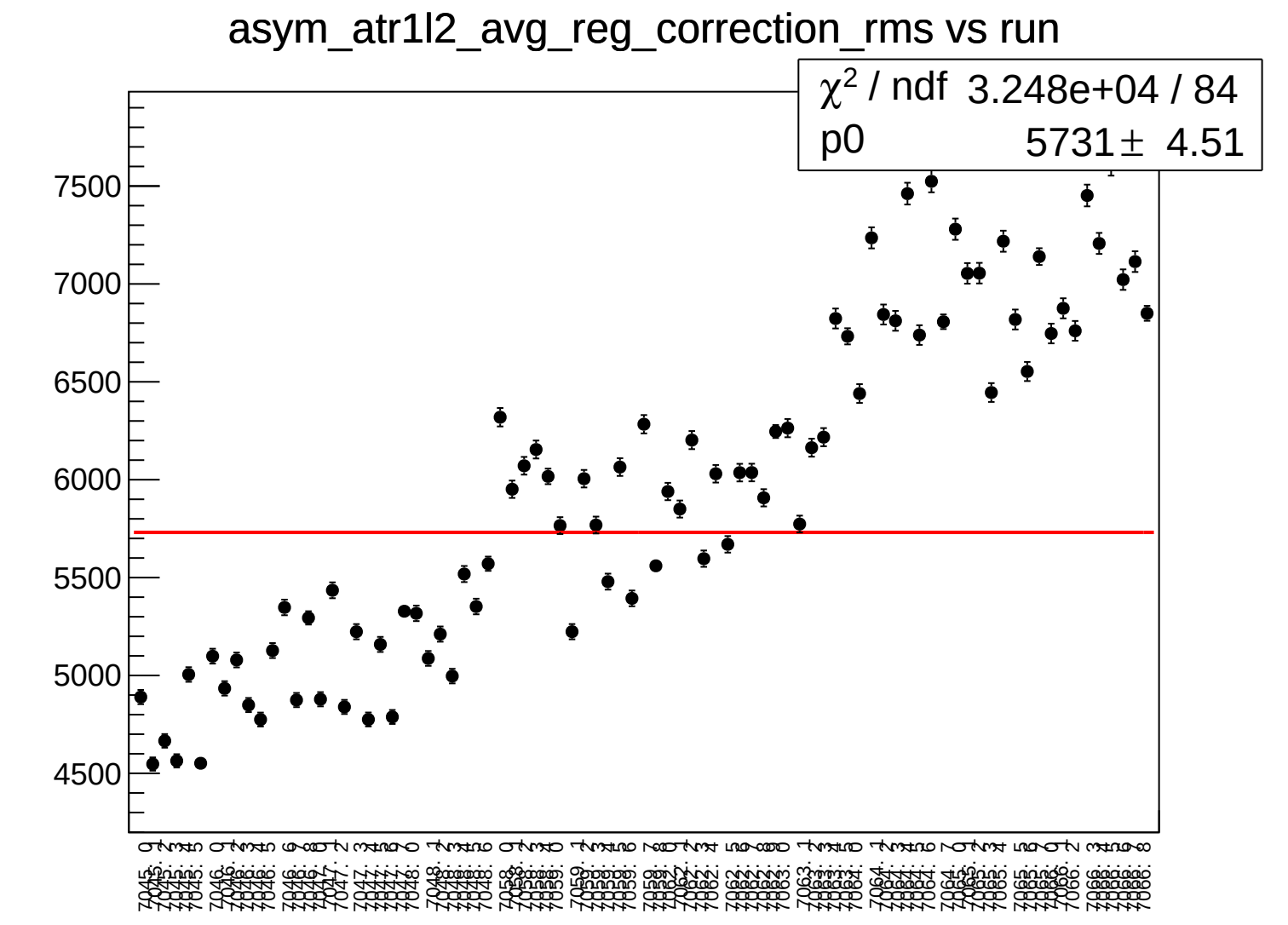

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 78.5 / 84
p0 1697 ± 2051
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −1175
Std Dev 0
2
1
0
−1
−2

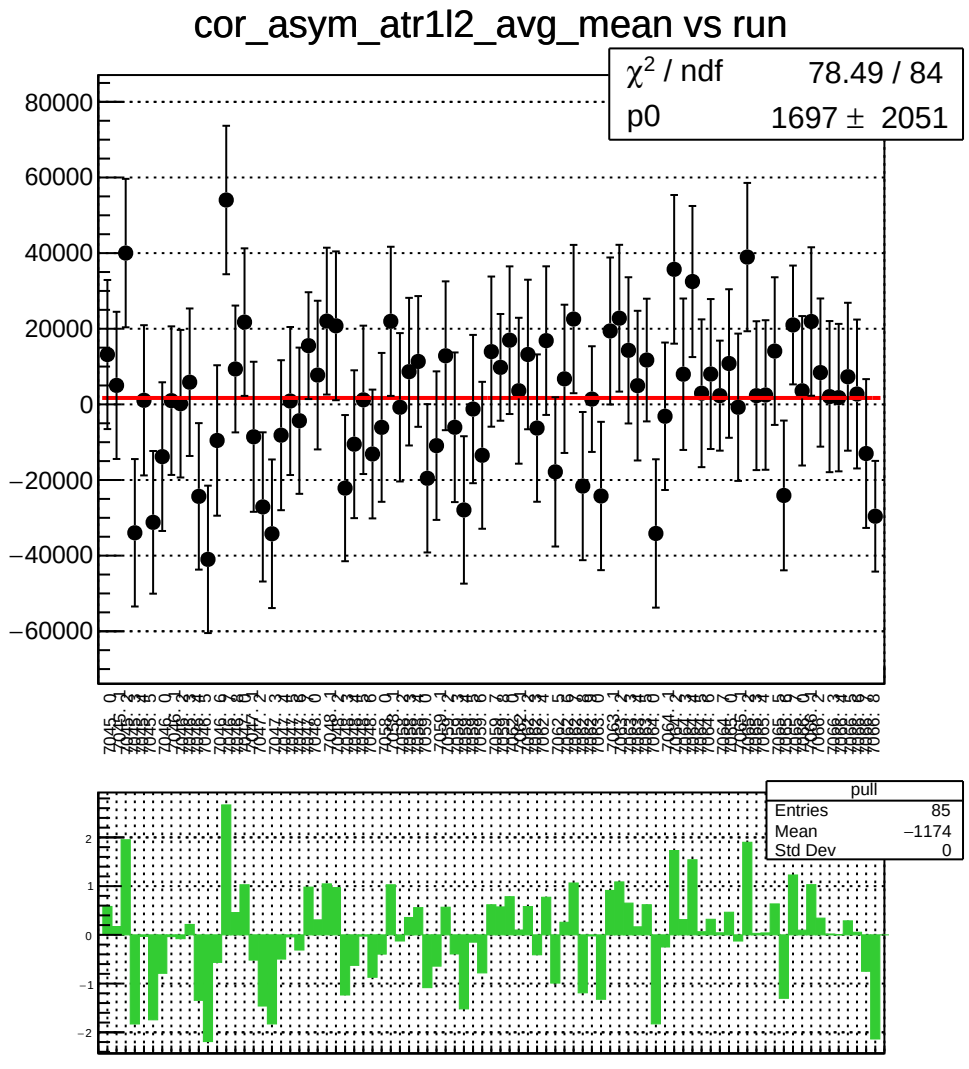

pull1D
Entries 85
Mean −0.002588
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

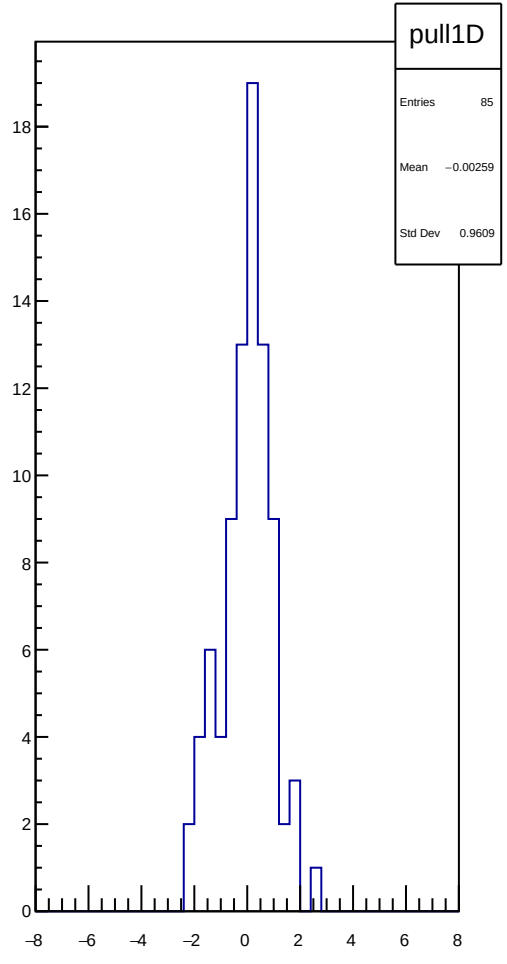

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 90.93 / 84
p0 1861 ± 1.45
1920
1900
1880
1860
1840
1820

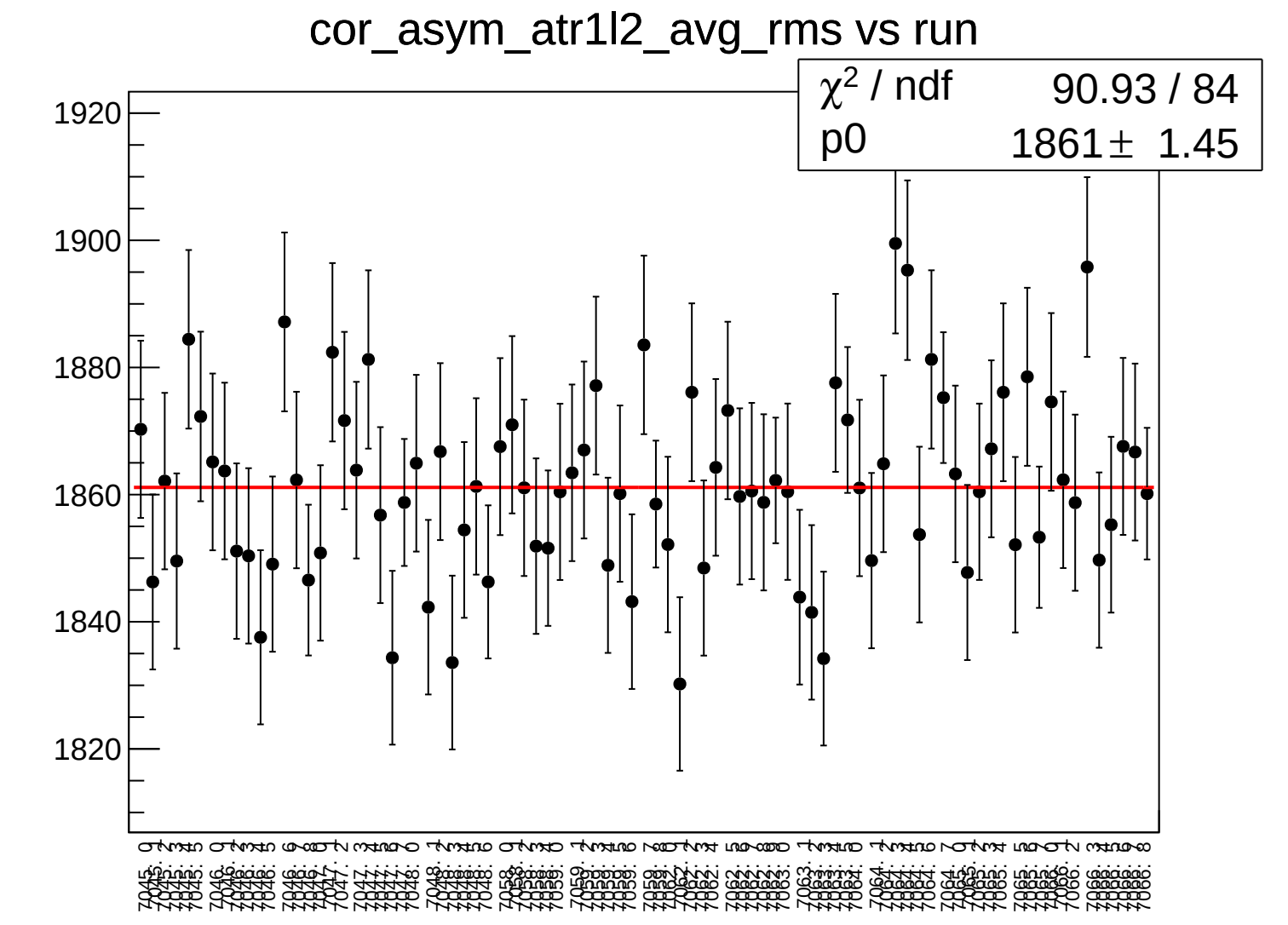

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.67 / 84
p0 −3026 ± 6378
pull
Entries 85
Mean 179.7
Std Dev 0

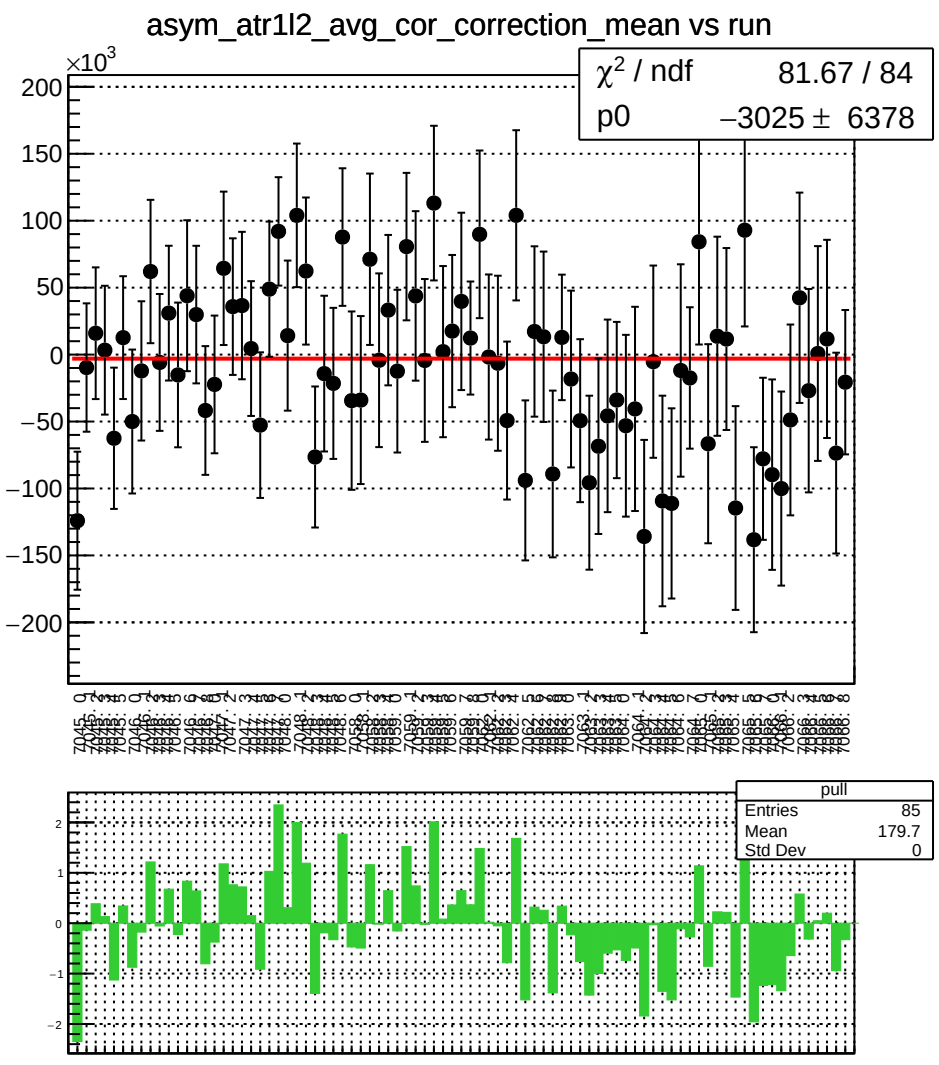

pull1D
Entries 85
Mean −0.04713
Std Dev 0.9791

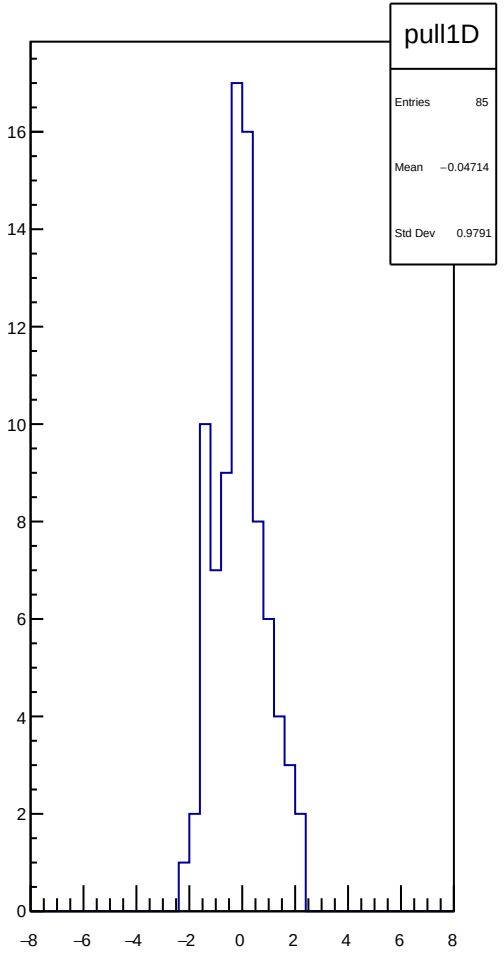

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3.248e+04 / 84
p0 5731 ± 4.51
7500
7000
6500
6000
5500
5000
4500

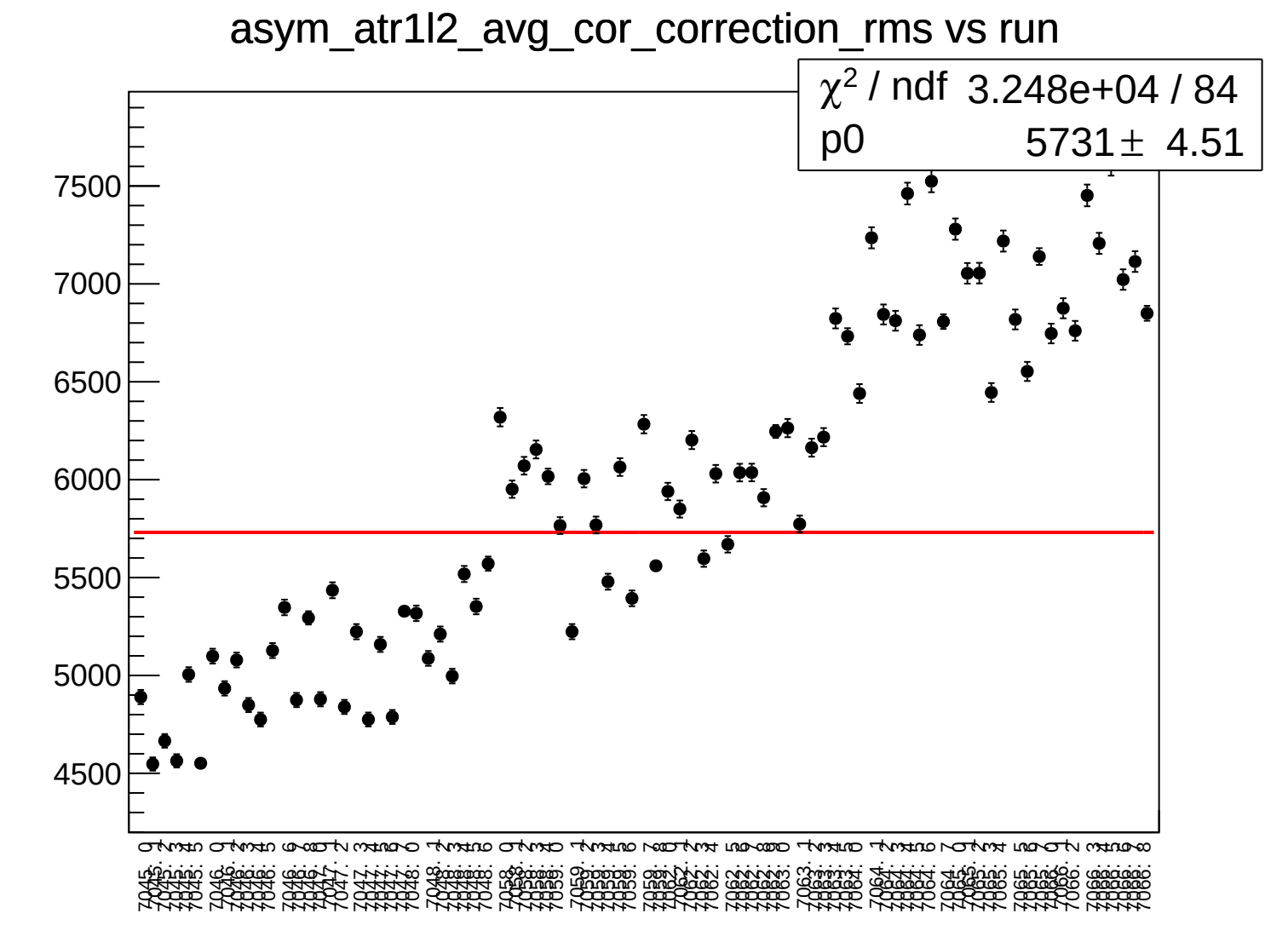

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 78.49 / 84
p0 1697 ± 2051
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −1174
Std Dev 0
2
1
0
−1
−2

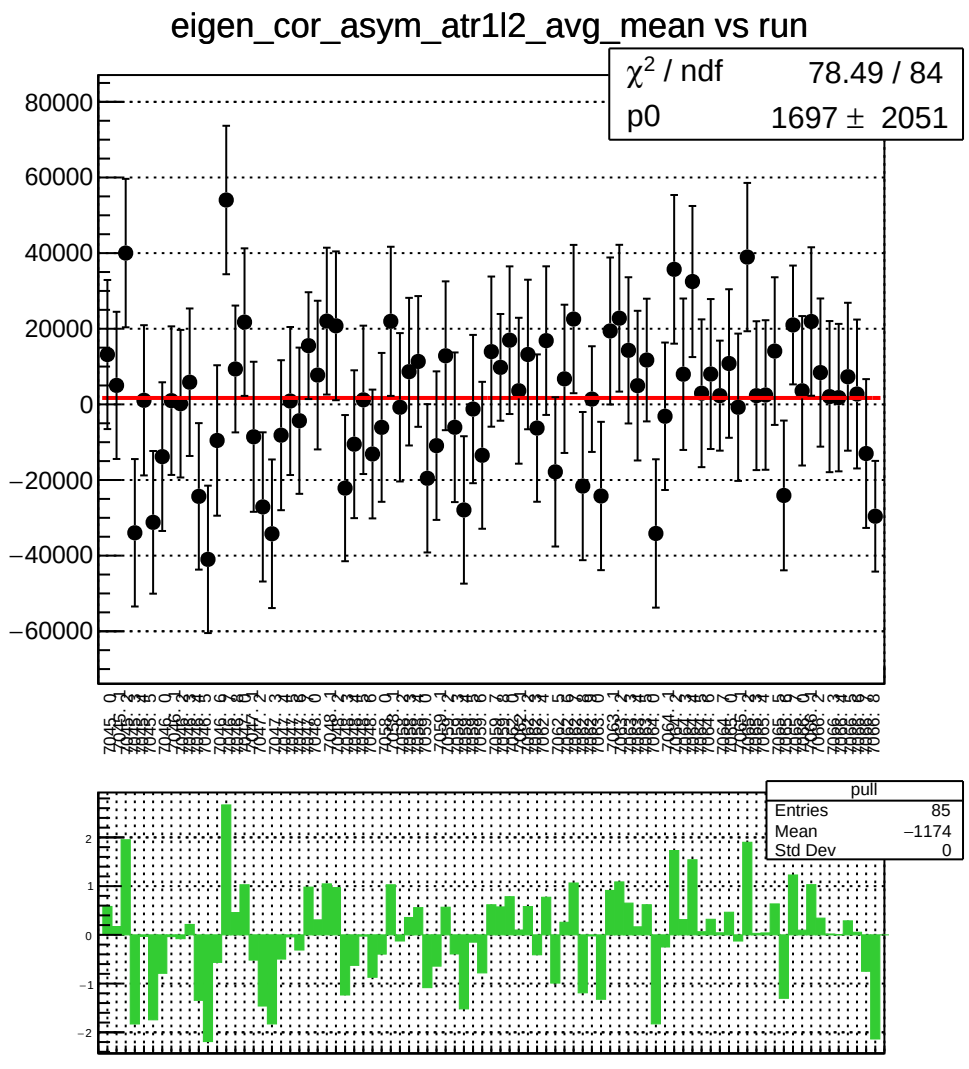

pull1D
Entries 85
Mean −0.00259
Std Dev 0.9609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

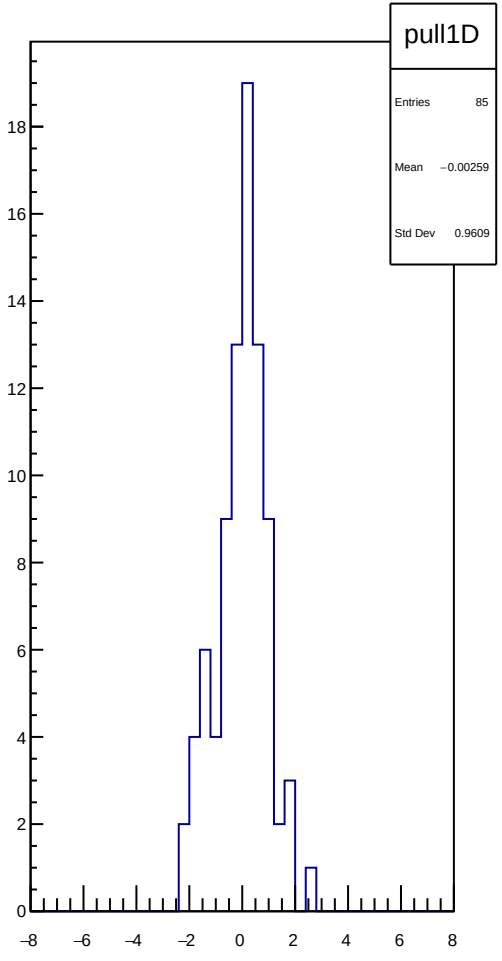

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 90.93 / 84
p0 1861 ± 1.45
1920
1900
1880
1860
1840
1820

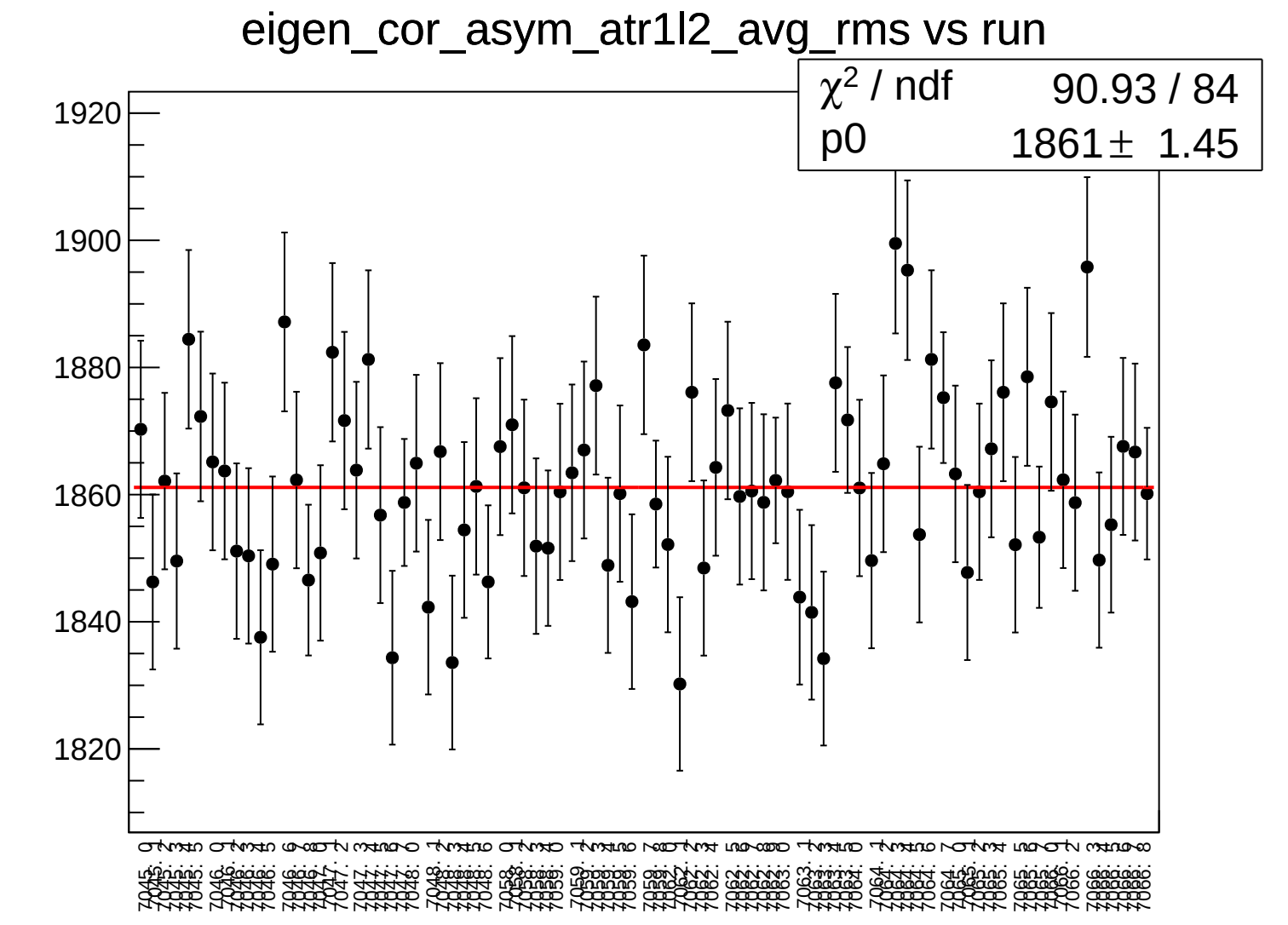

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.67 / 84
p0 −3025 ± 6378
pull
Entries 85
Mean 179.7
Std Dev 0

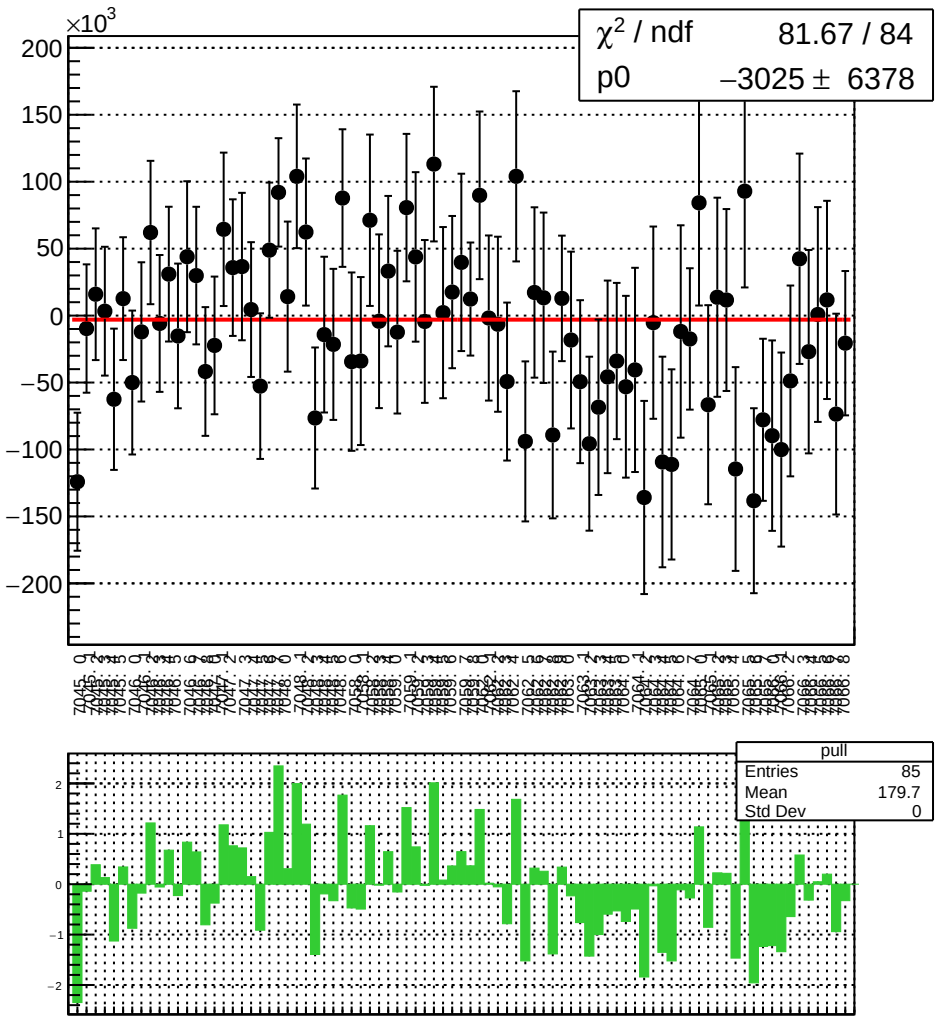

pull1D
Entries 85
Mean −0.04714
Std Dev 0.9791

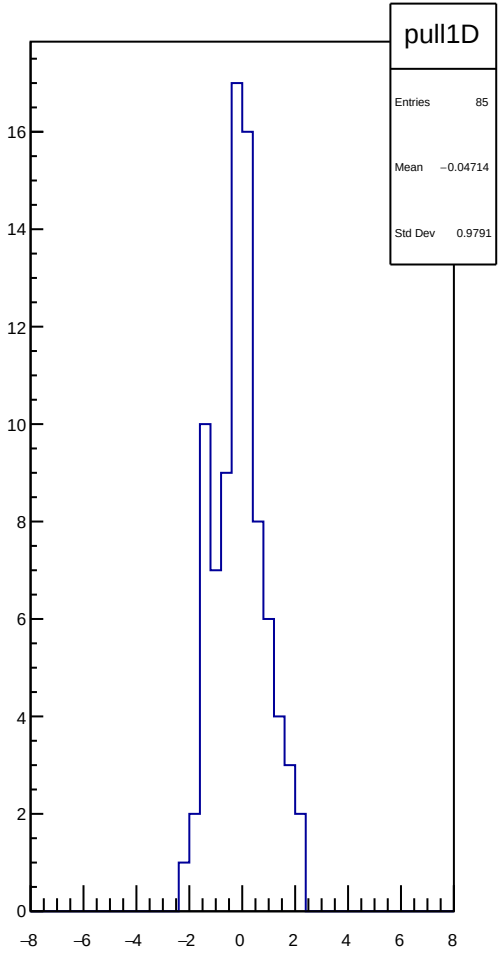

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3.248e+04 / 84
p0 5731 ± 4.51
7500
7000
6500
6000
5500
5000
4500

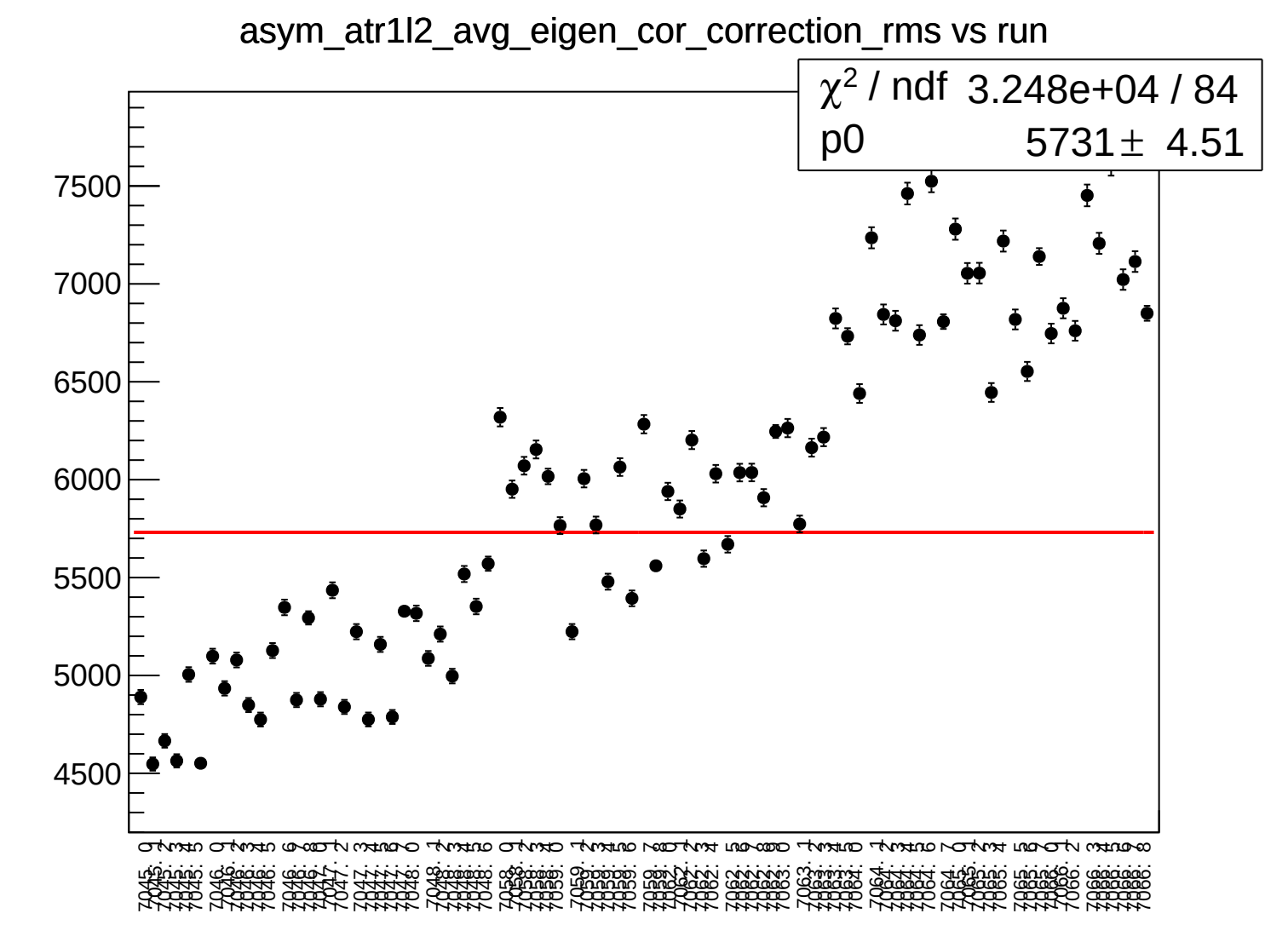

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 78.49 / 84
p0 1697 ± 2051
pull
Entries 85
Mean −1174
Std Dev 0

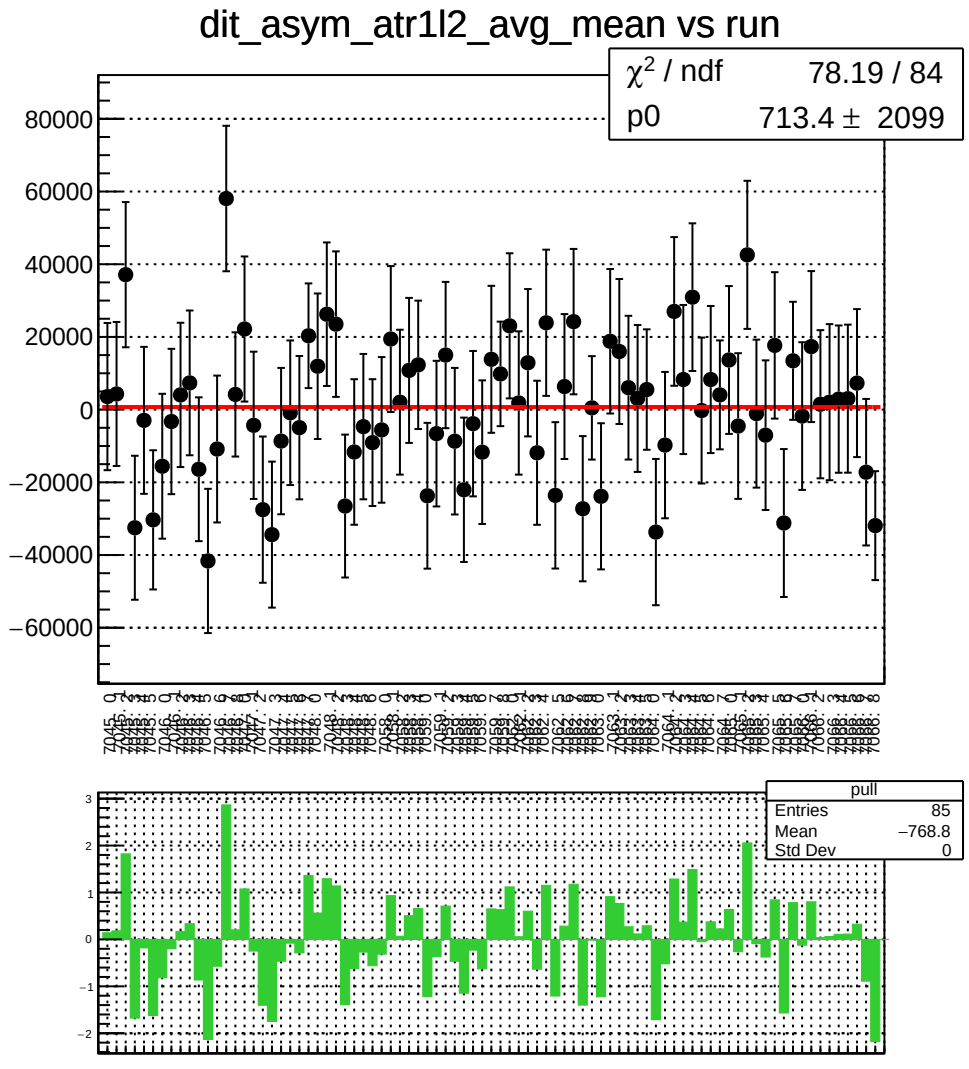

pull1D
Entries 85
Mean −0.00259
Std Dev 0.9609

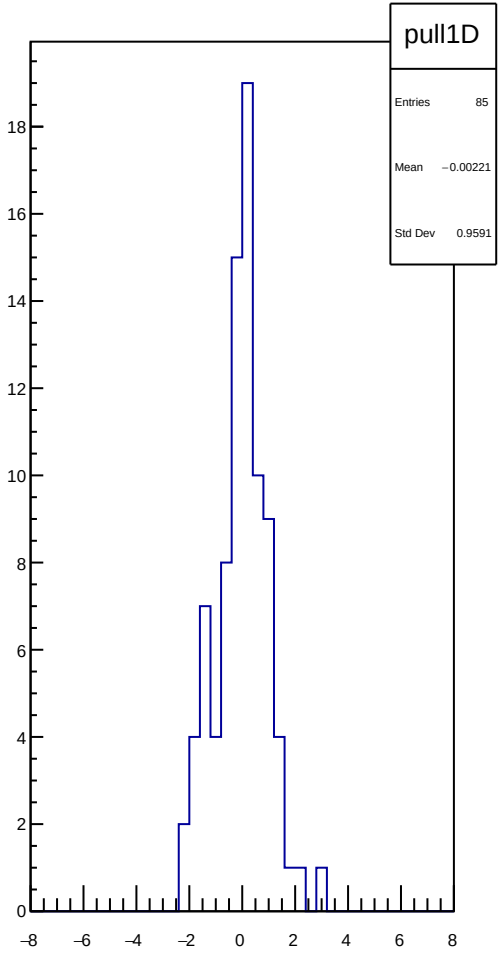

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 90.93 / 84
p0 1861 ± 1.45
1920
1900
1880
1860
1840
1820

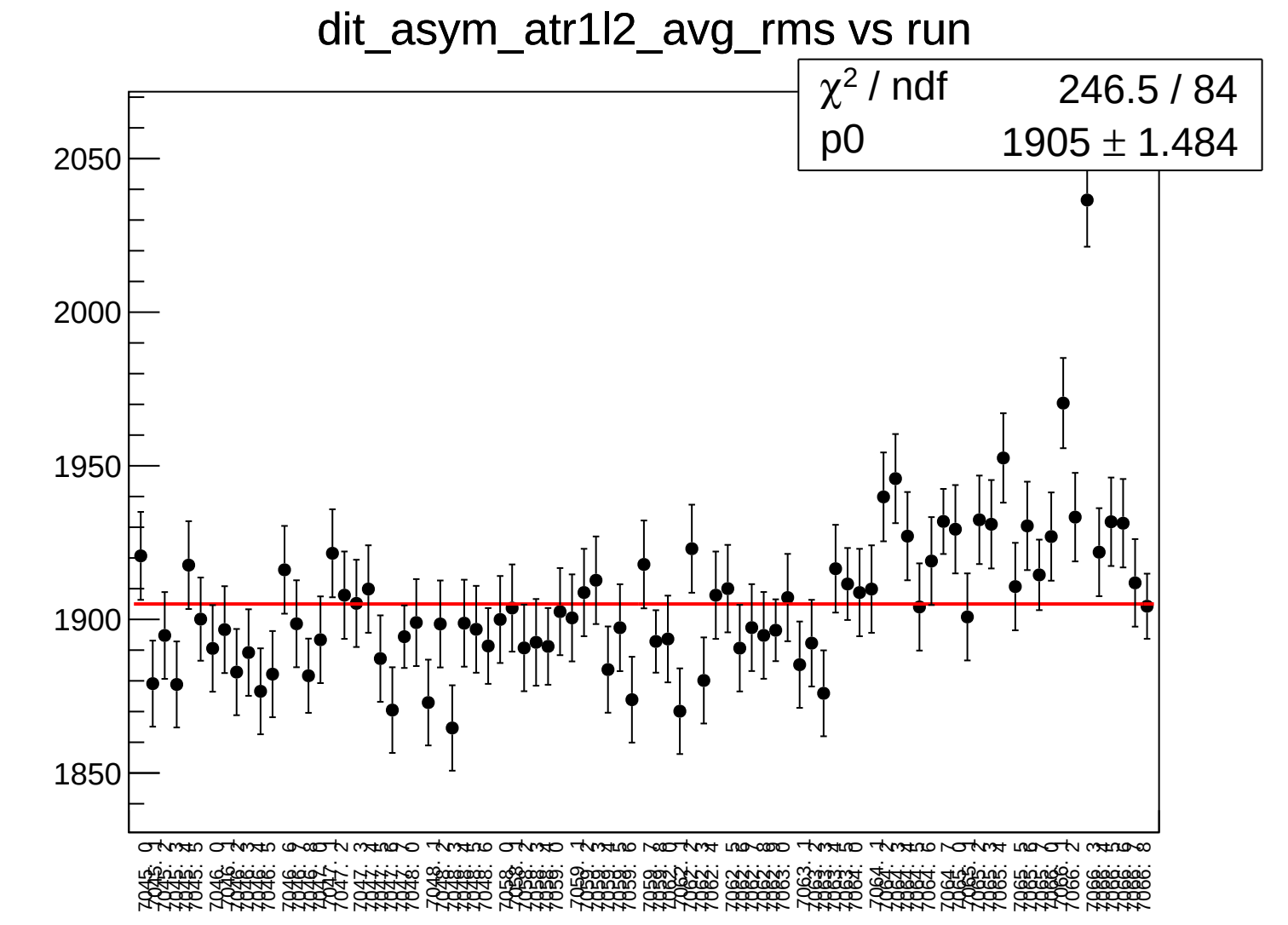

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.67 / 84
p0 −3025 ± 6378
pull
Entries 85
Mean 179.7
Std Dev 0

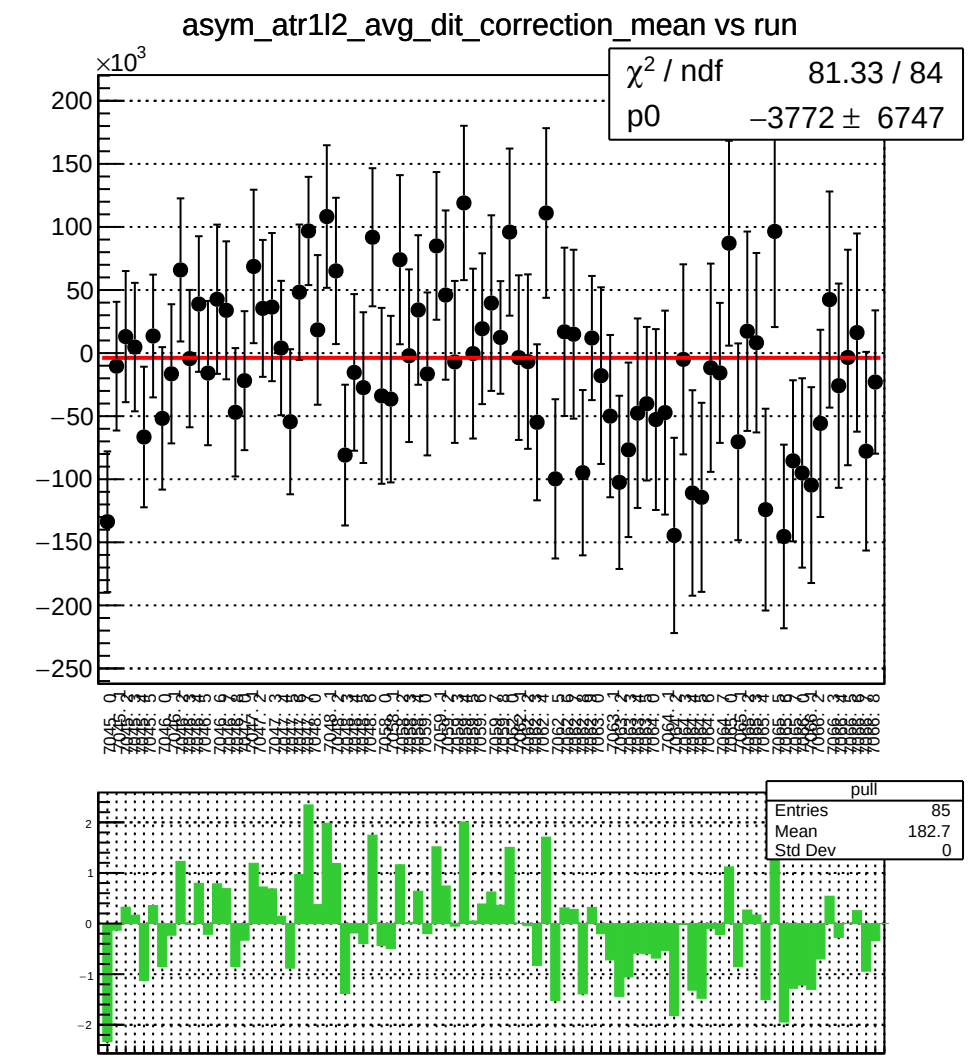

pull1D
Entries 85
Mean −0.04714
Std Dev 0.9791

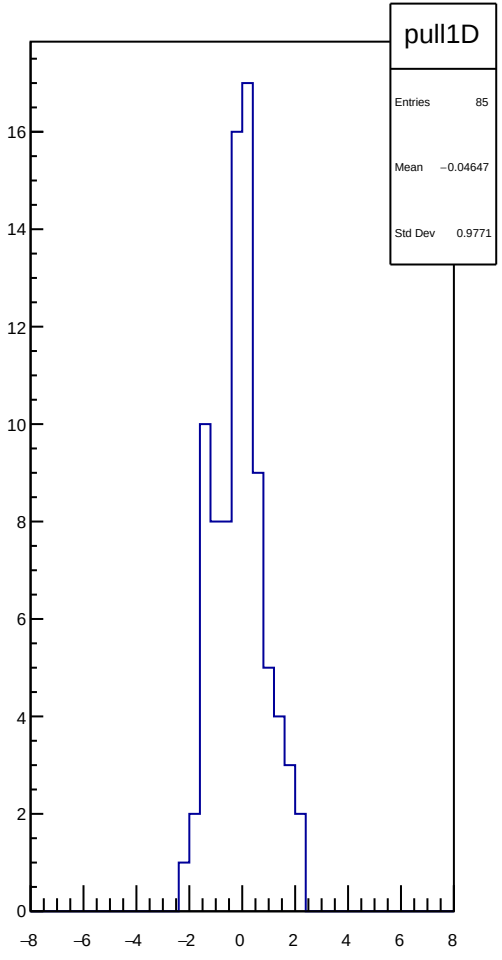

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.248e+04 / 84
p0 5731 ± 4.51
7500
7000
6500
6000
5500
5000
4500

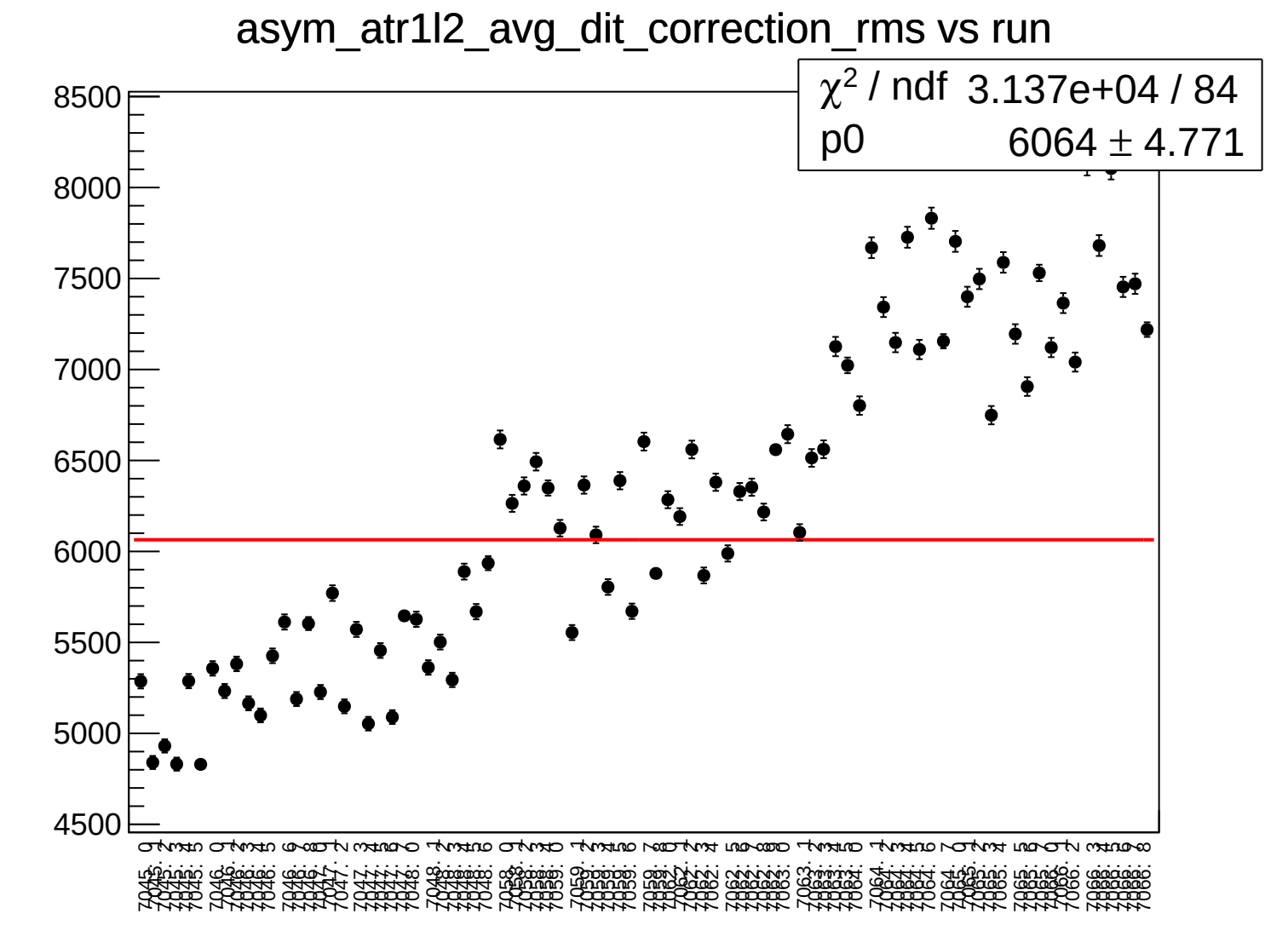

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 78.19 / 84
p0 713.4 ± 2099
pull
Entries 85
Mean −768.8
Std Dev 0

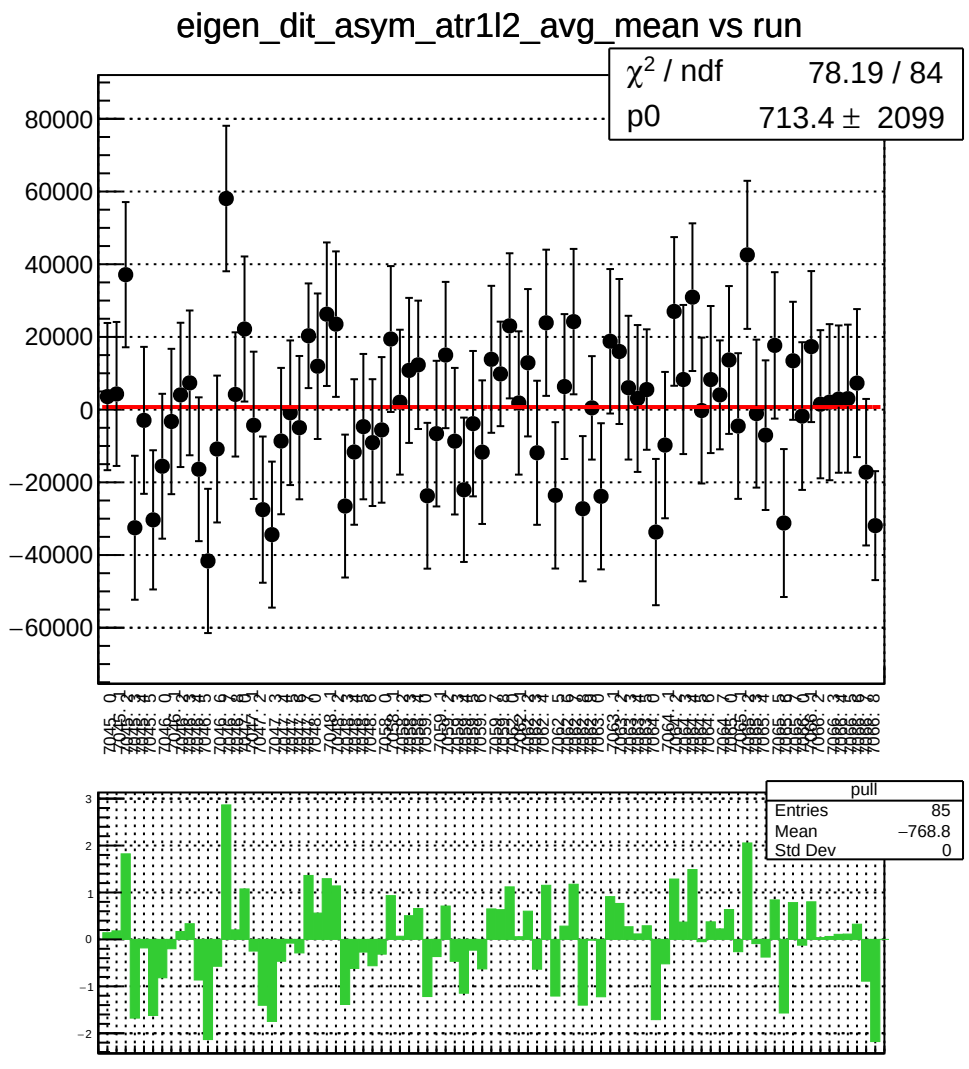

pull1D
Entries 85
Mean −0.00221
Std Dev 0.9591

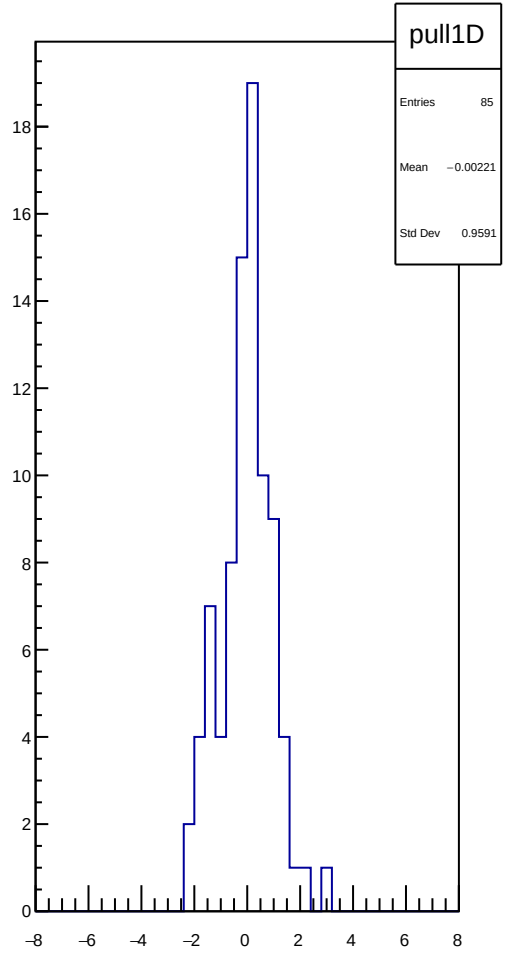

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 246.5 / 84
p0 1905 ± 1.484
2050
2000
1950
1900
1850

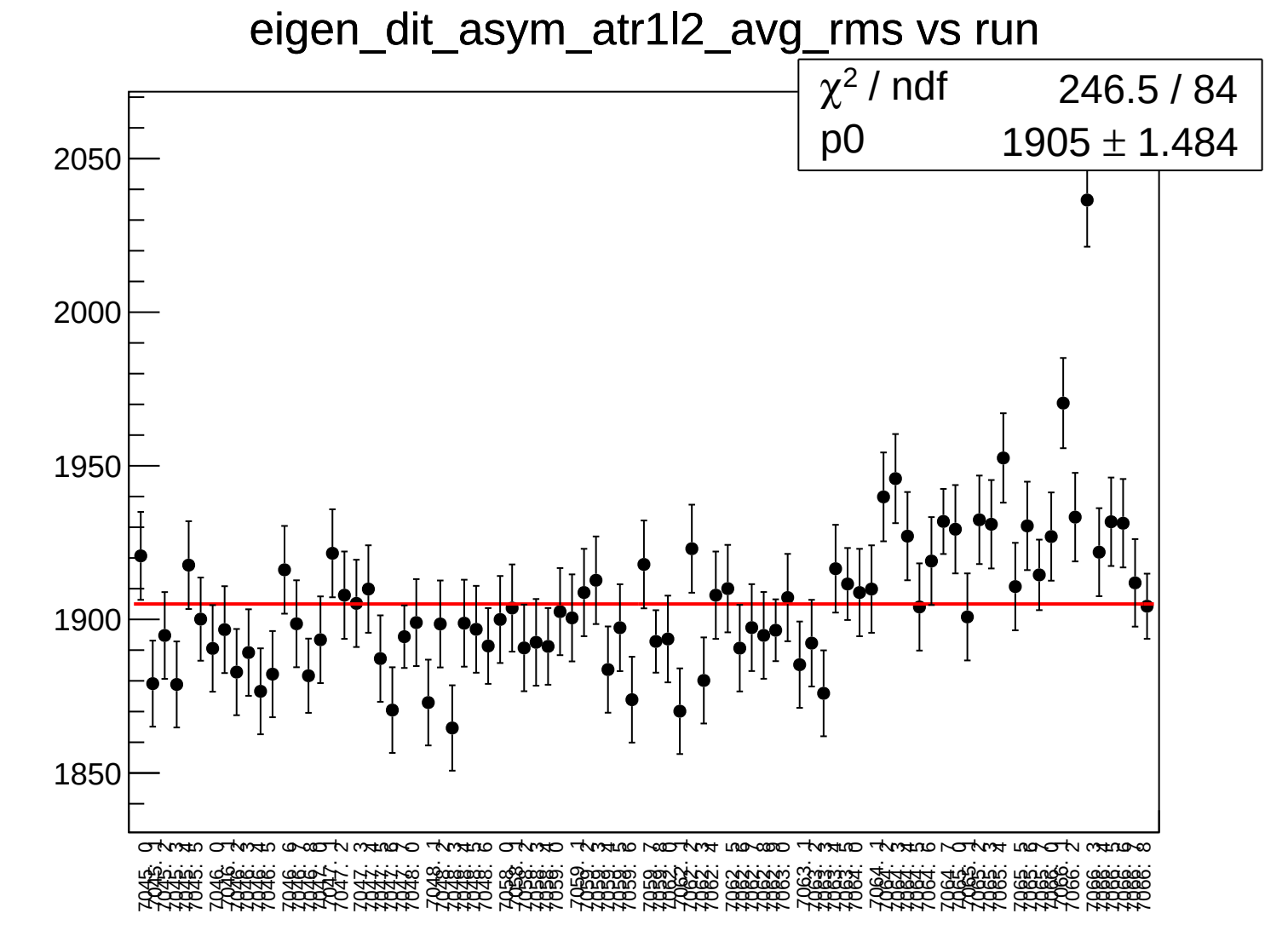

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 81.33 / 84
p0 −3772 ± 6747
×10³
pull
Entries 85
Mean 182.7
Std Dev 0

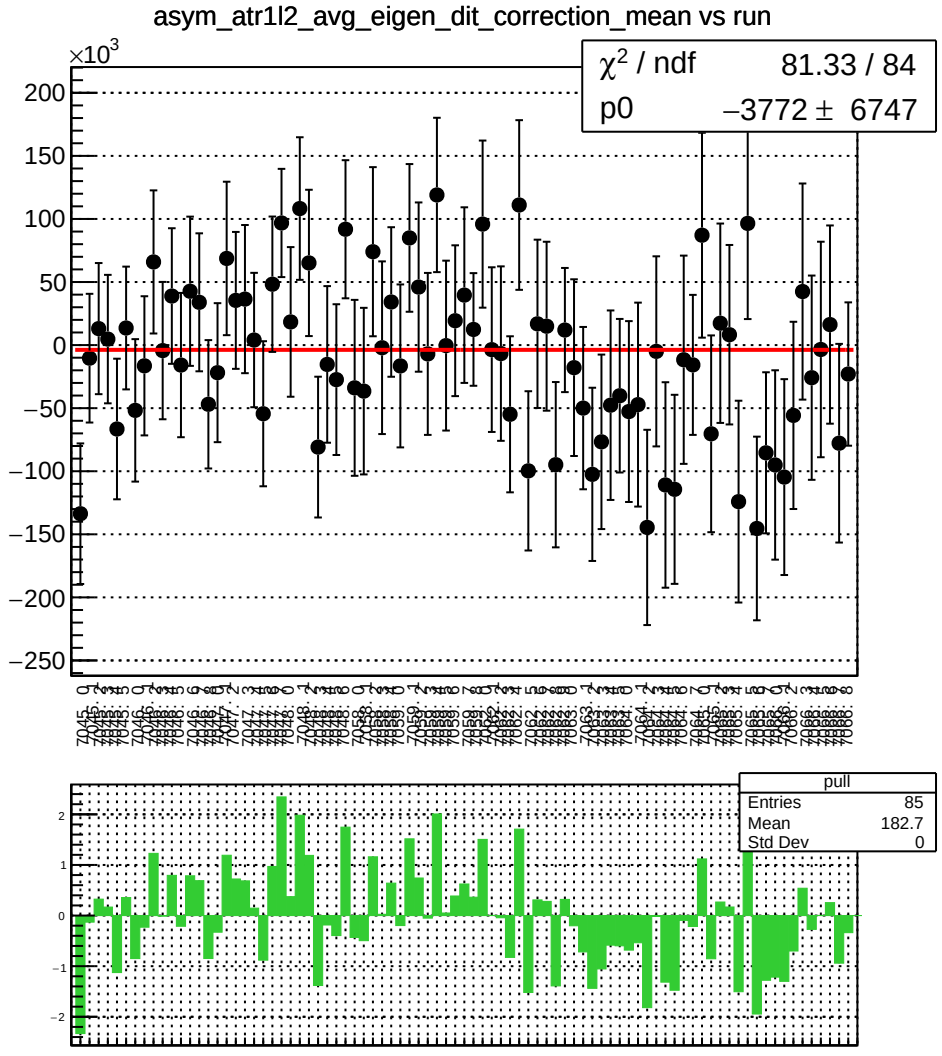

pull1D
Entries 85
Mean −0.04647
Std Dev 0.9771

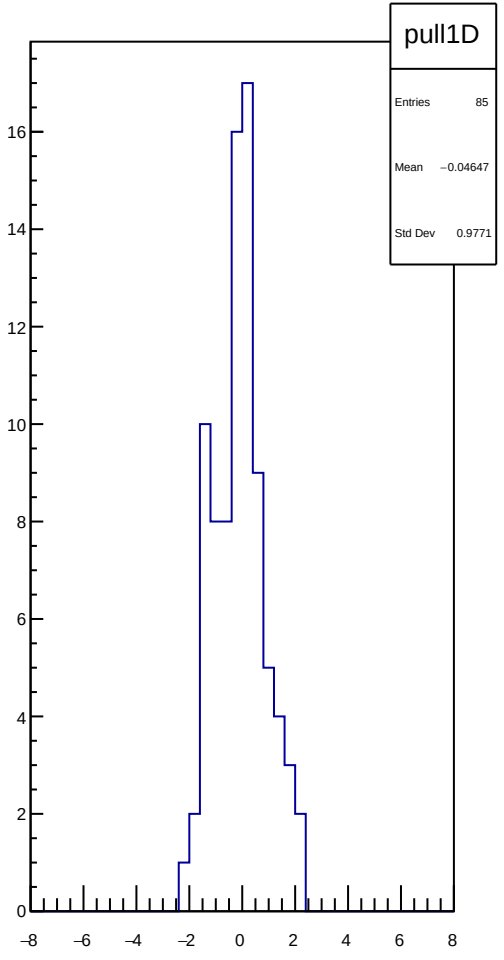

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3.137e+04 / 84
p0 6064 ± 4.771
8500
8000
7500
7000
6500
6000
5500
5000
4500

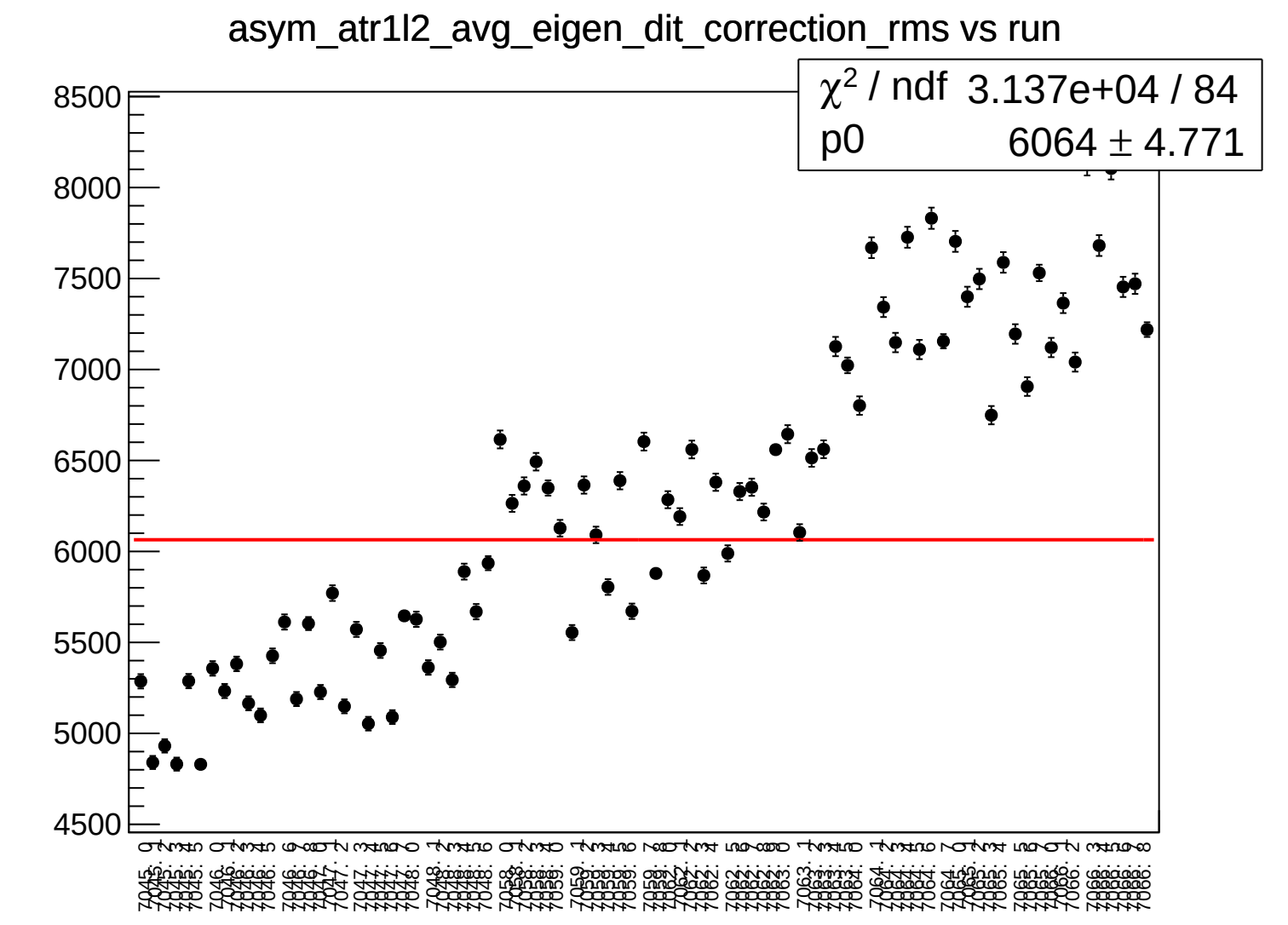

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 78.19 / 84
p0 713.4 ± 2099
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −768.8
Std Dev 0
3
2
1
0
−1
−2

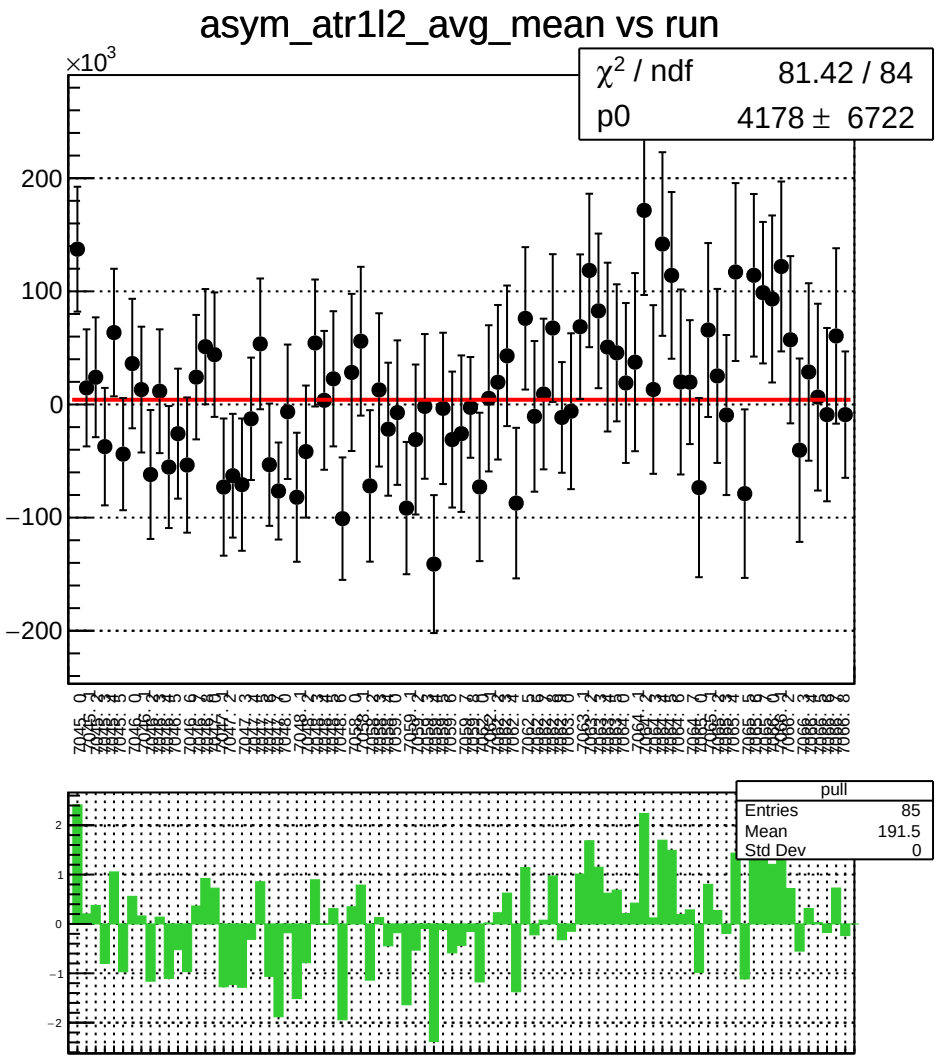

pull1D
Entries 85
Mean −0.00221
Std Dev 0.9591
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

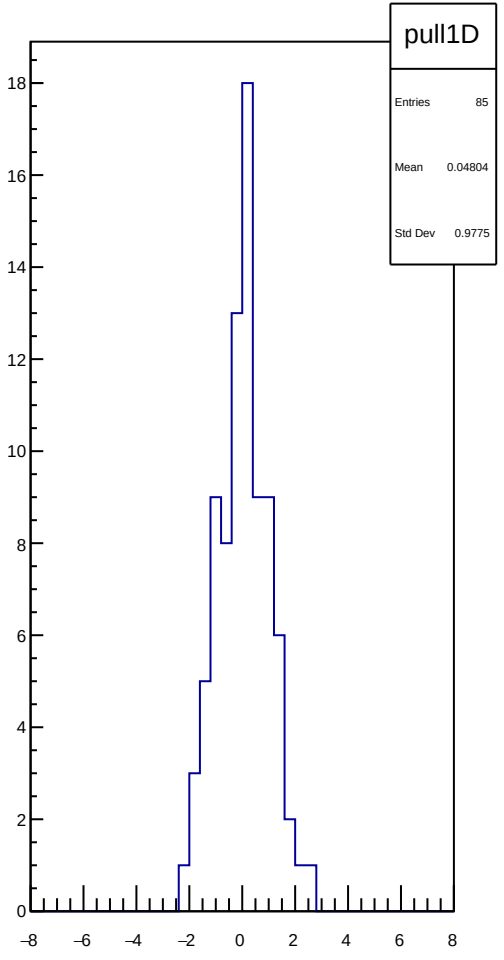

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 246.5 / 84
p0 1905 ± 1.484
2050
2000
1950
1900
1850


asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.33 / 84
p0 −3772 ± 6747
pull
Entries 85
Mean 182.7
Std Dev 0


pull1D
Entries 85
Mean −0.04647
Std Dev 0.9771


asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.137e+04 / 84
p0 6064 ± 4.771
8500
8000
7500
7000
6500
6000
5500
5000
4500


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 81.42 / 84
p0 4178 ± 6722
200
100
0
−100
−200
pull
Entries 85
Mean 191.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.04804
Std Dev 0.9775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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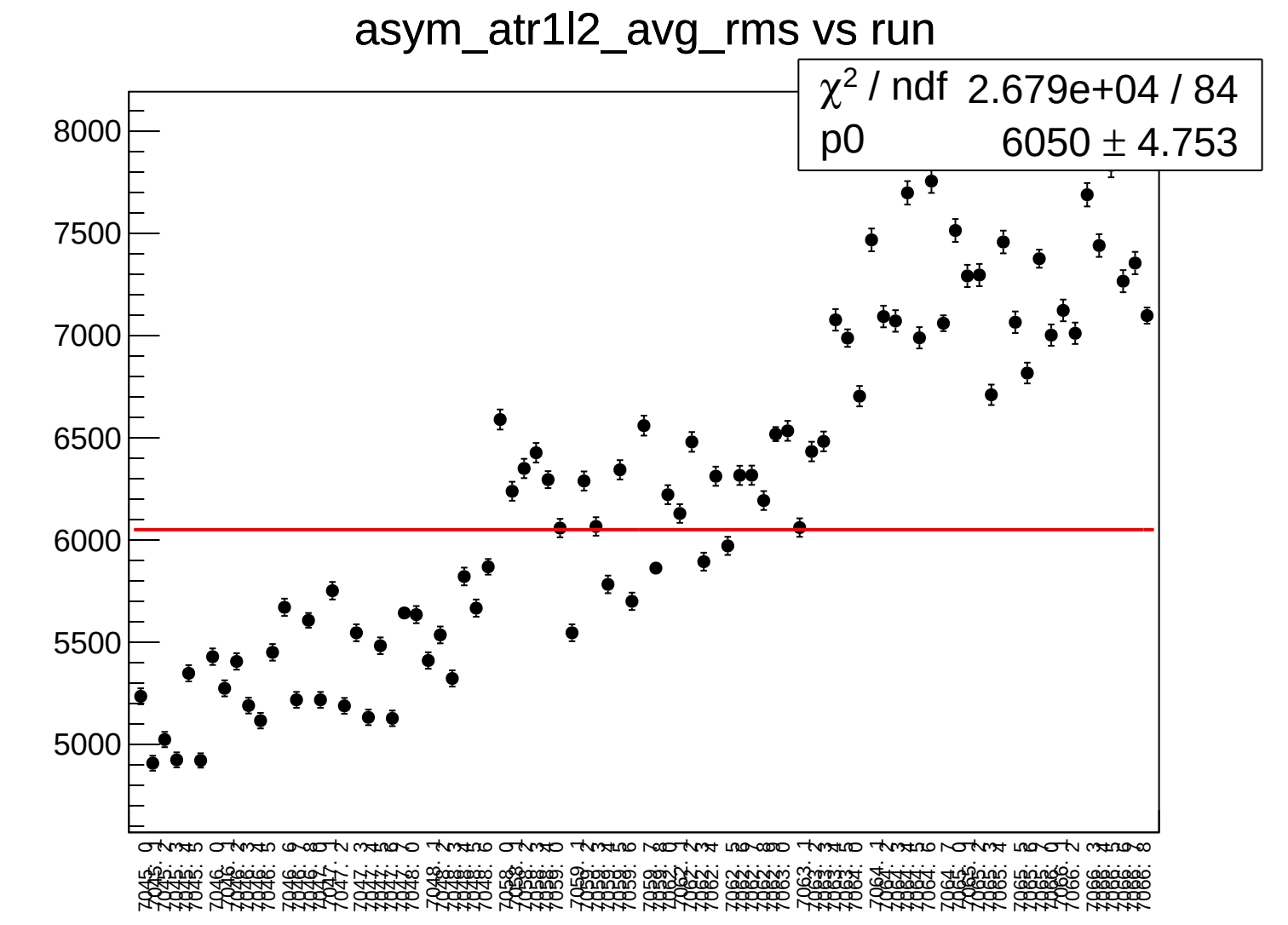
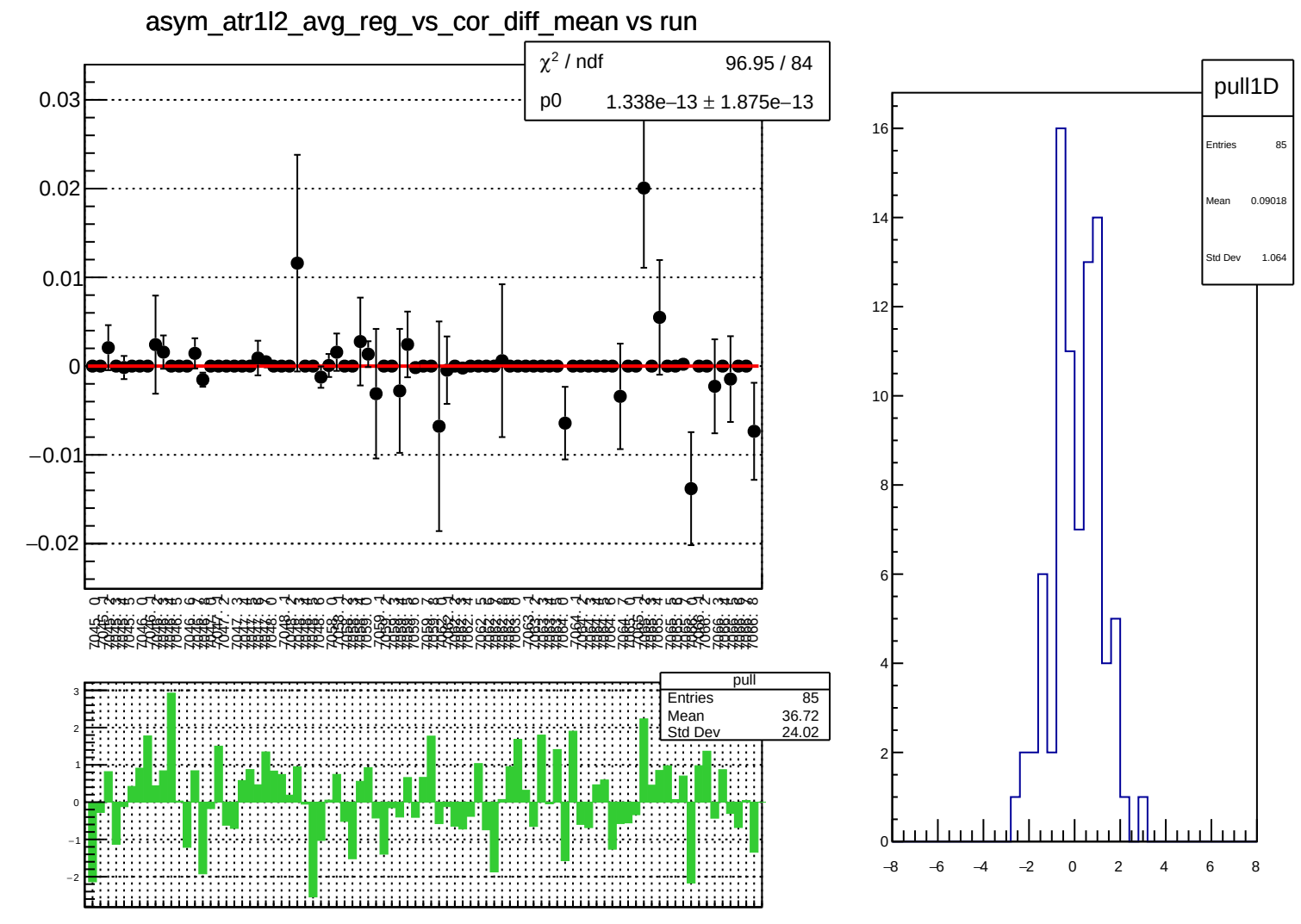
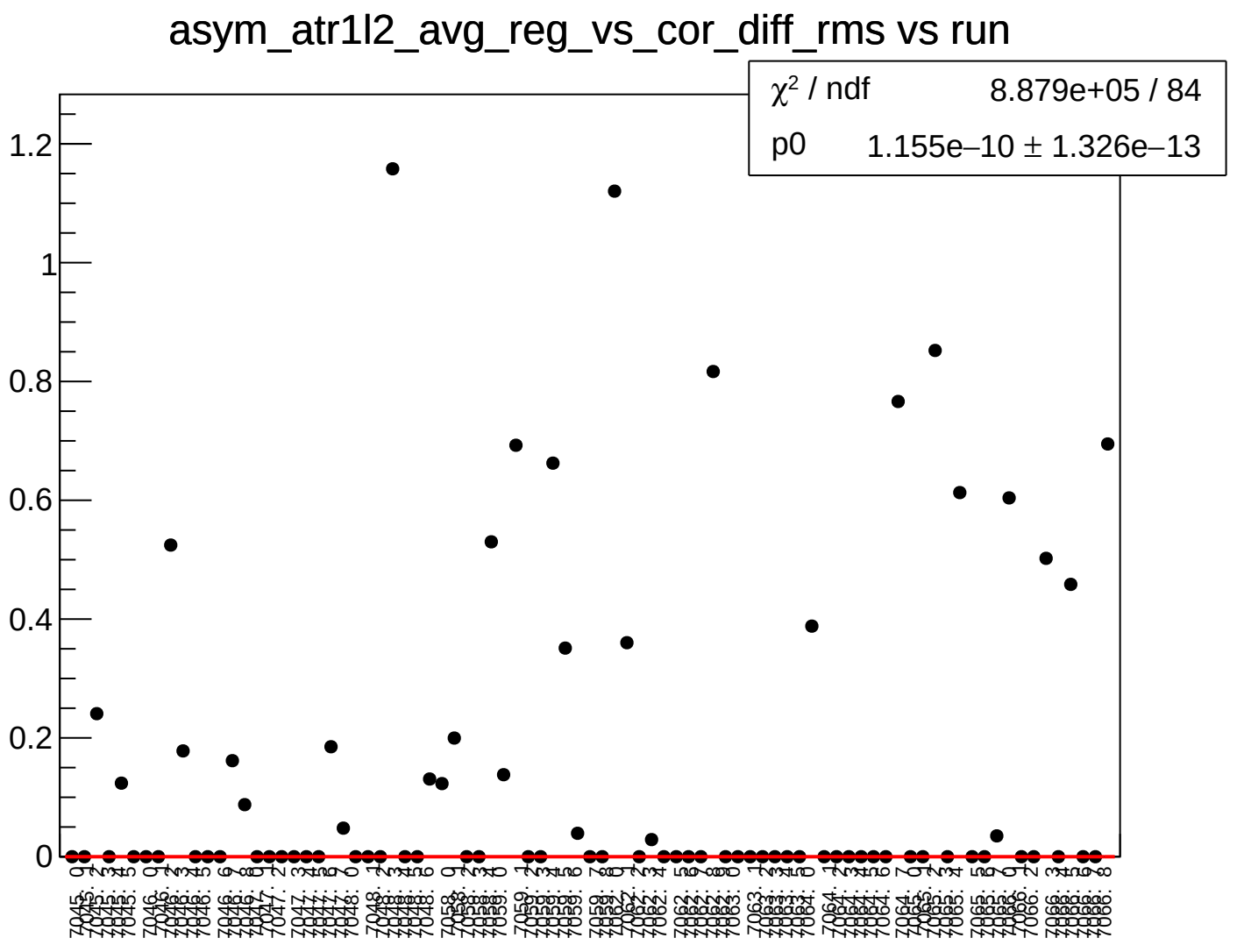
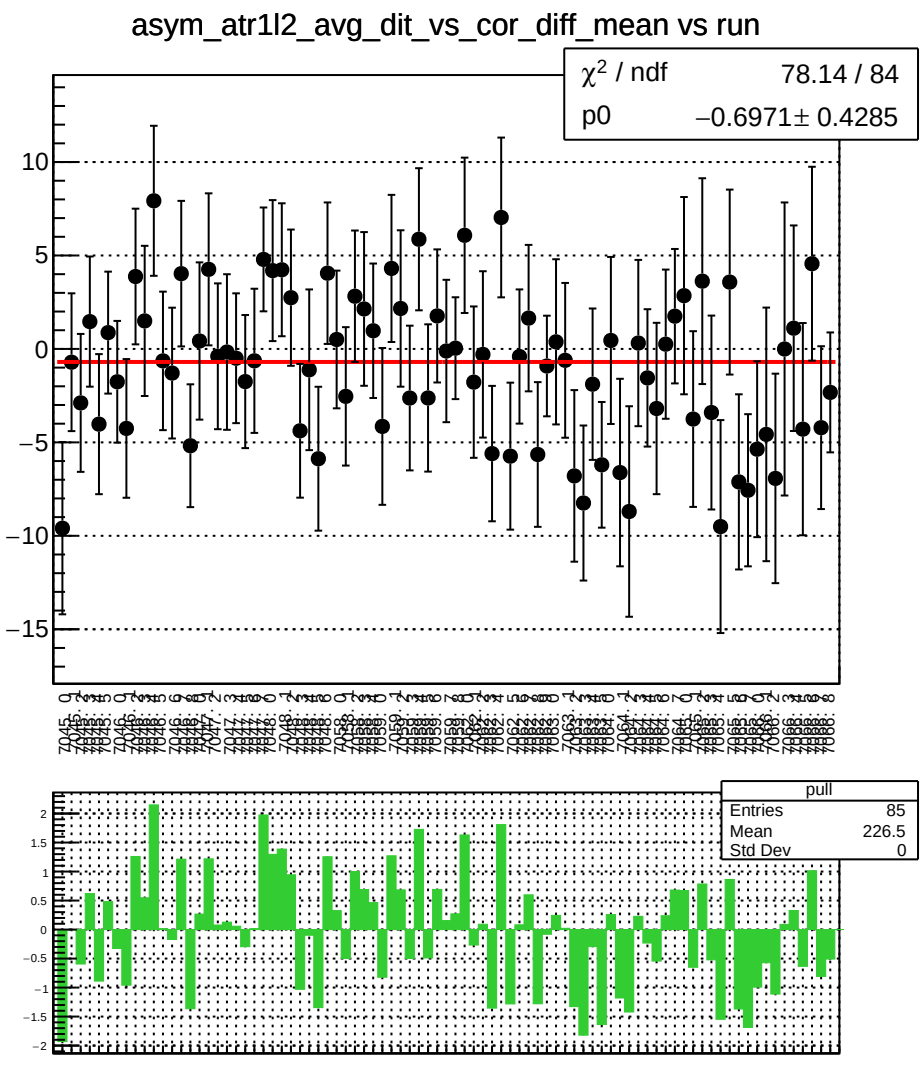
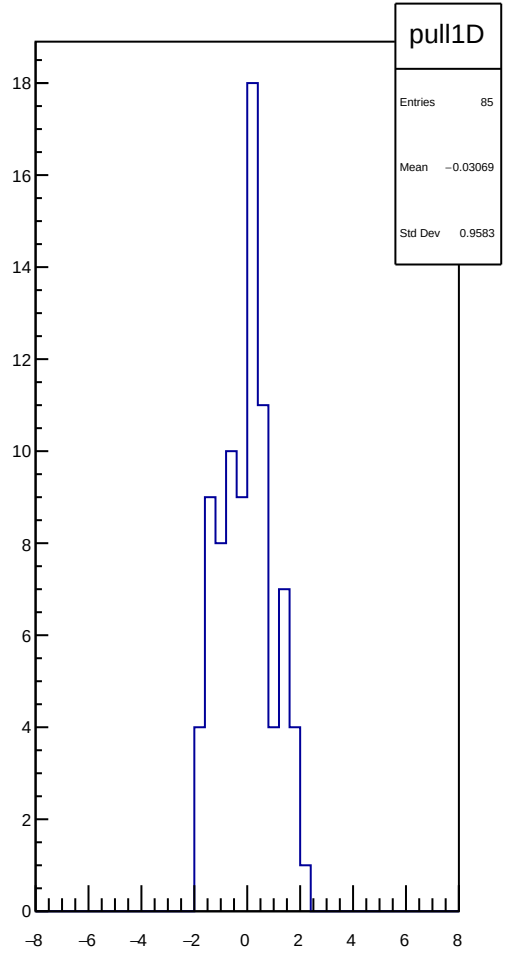
0
2
4
6
8

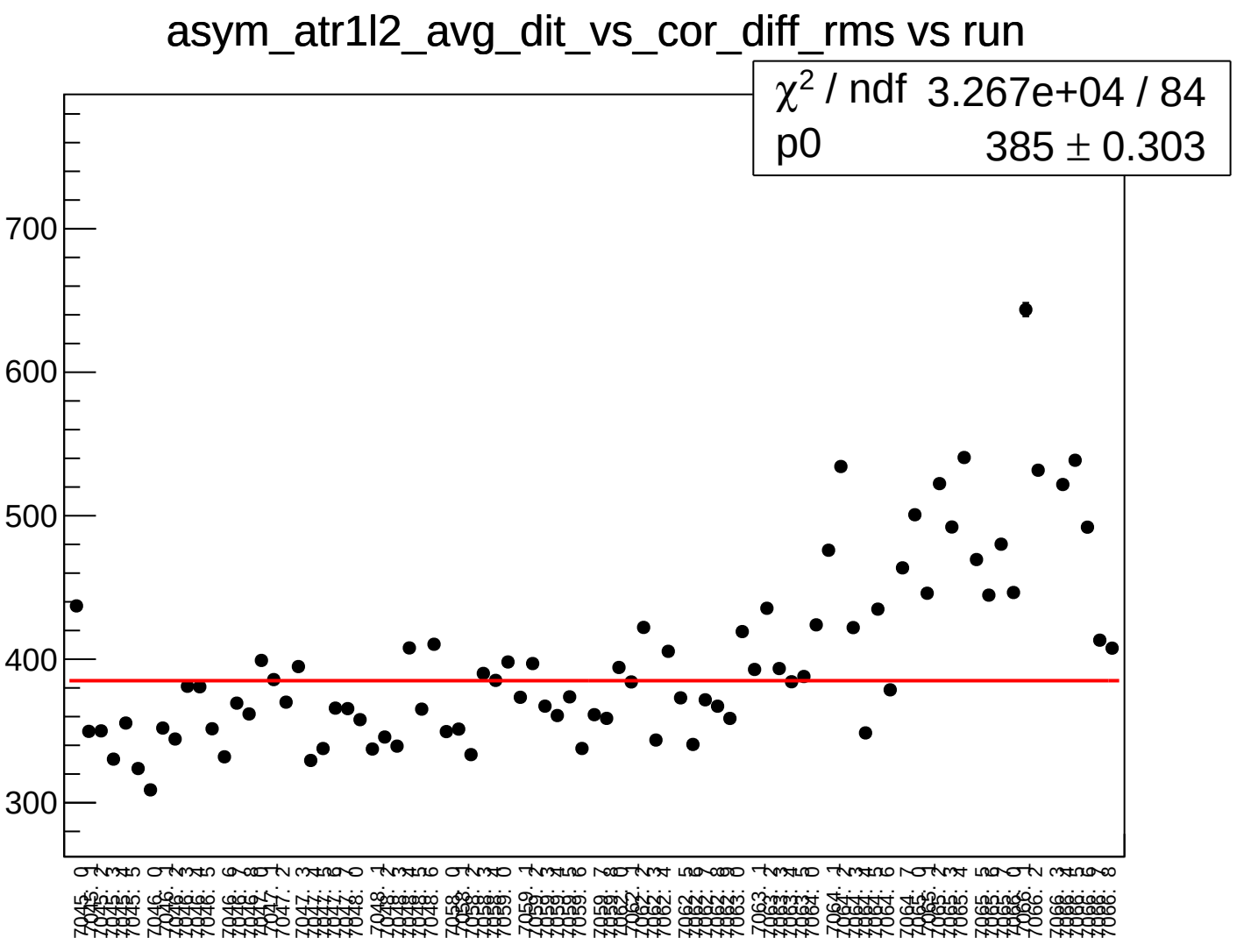

asym_atr1l2_avg_rms vs run
χ² / ndf 2.679e+04 / 84
p0 6050 ± 4.753
8000
7500
7000
6500
6000
5500
5000

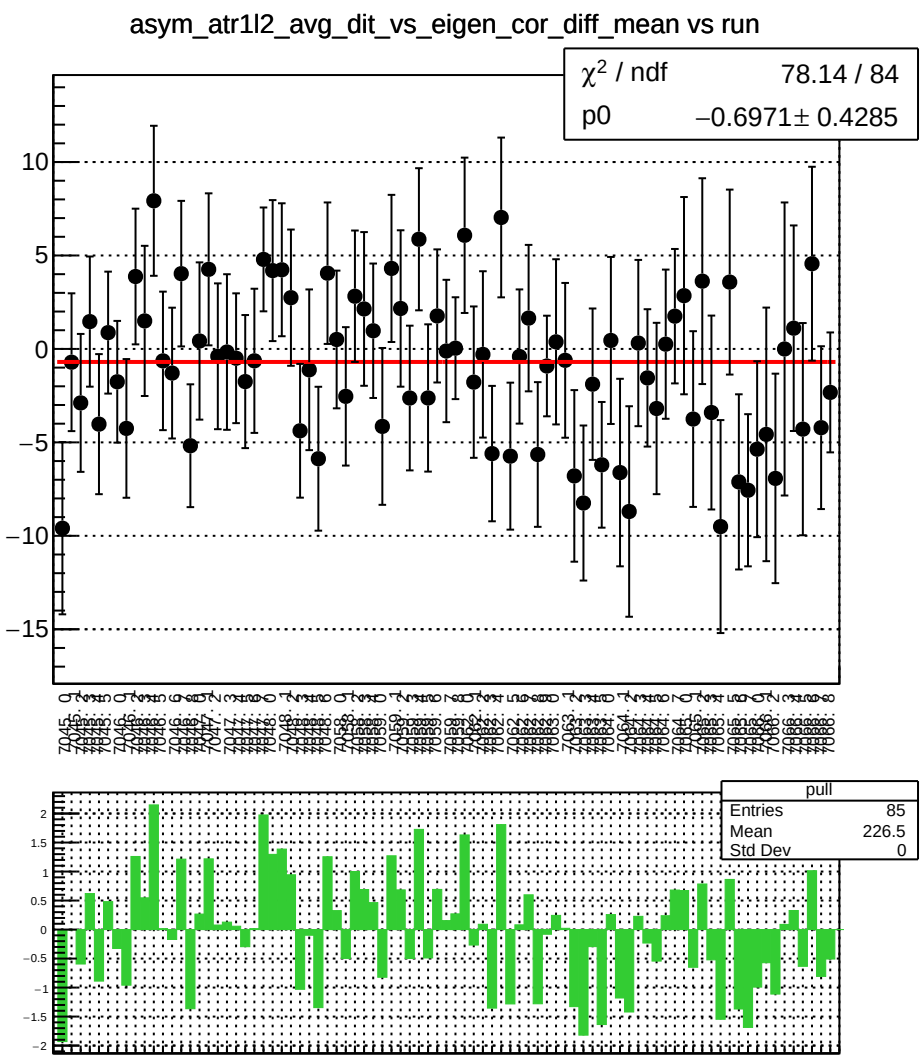

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.95 / 84
p0 1.338e−13 ± 1.875e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 36.72
Std Dev 24.02
pull1D
Entries 85
Mean 0.09018
Std Dev 1.064

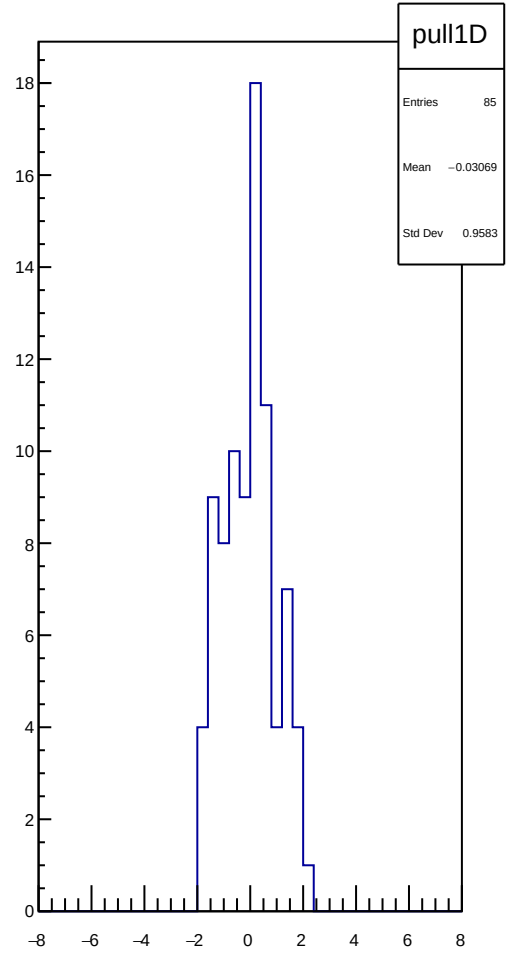

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.879e+05 / 84
p0 1.155e−10 ± 1.326e−13
1.2
1
0.8
0.6
0.4
0.2
0

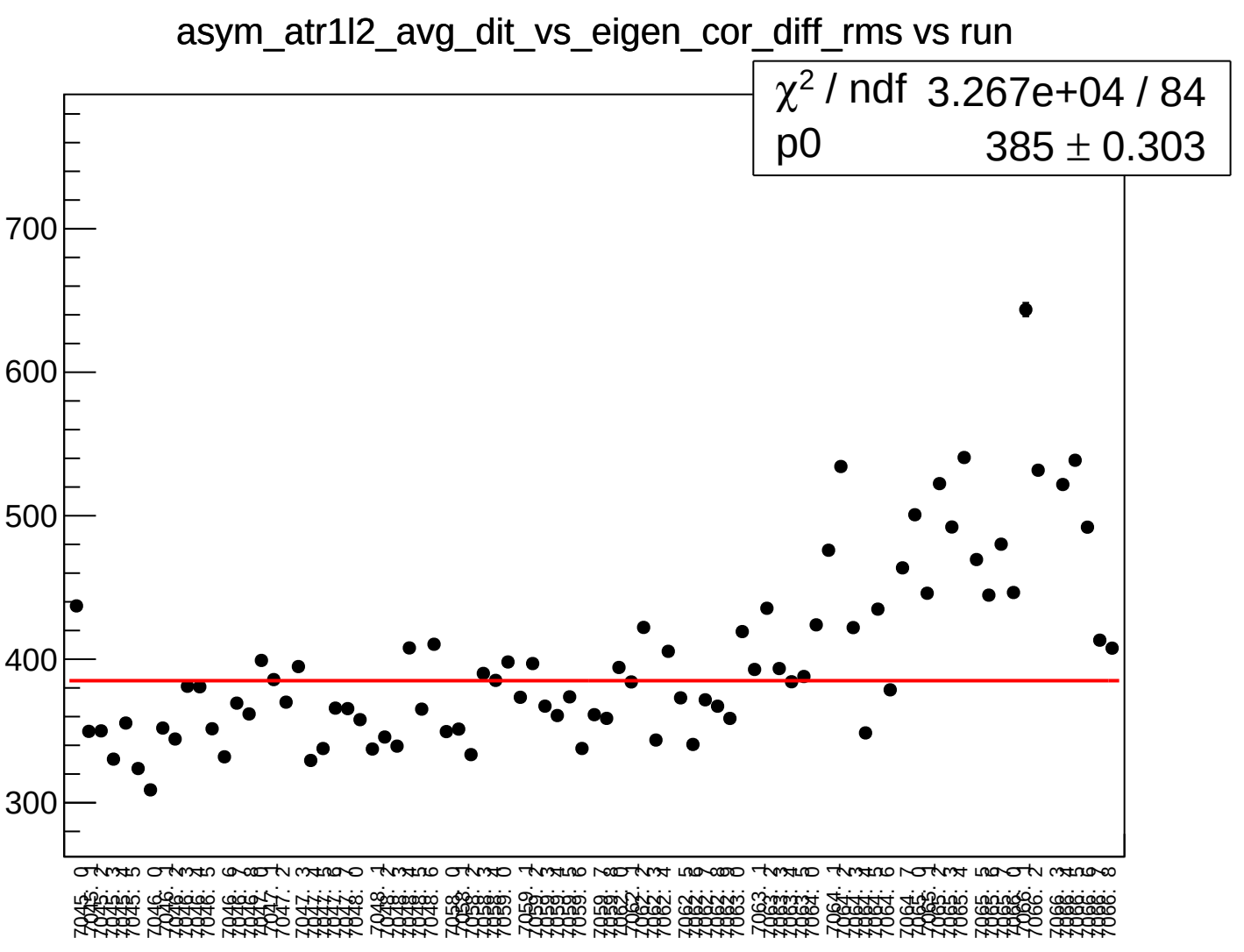

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.14 / 84
p0 −0.6971± 0.4285
pull
Entries 85
Mean 226.5
Std Dev 0

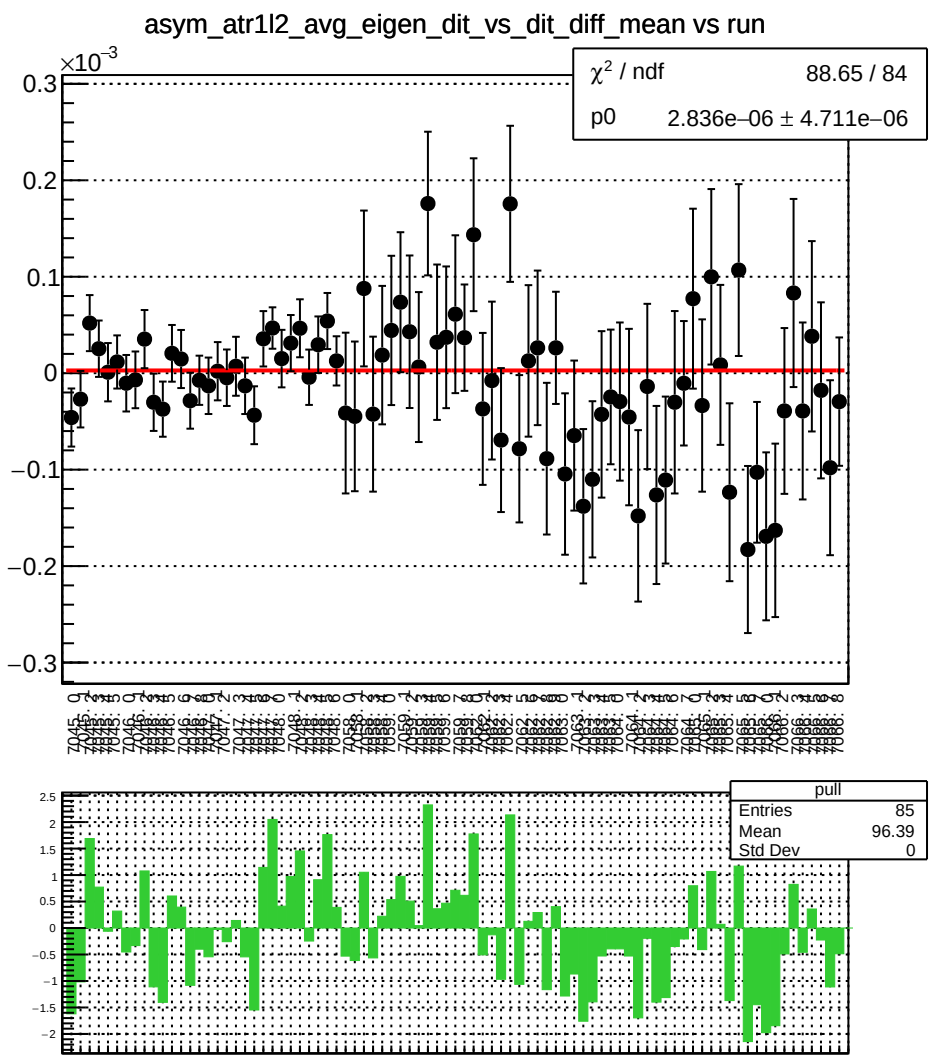

pull1D
Entries 85
Mean −0.03069
Std Dev 0.9583

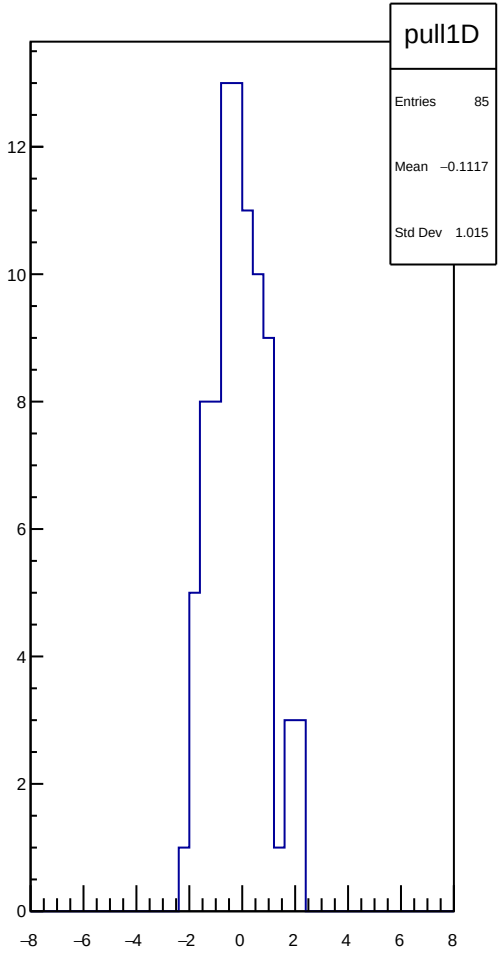

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.267e+04 / 84
p0 385 ± 0.303
700
600
500
400
300

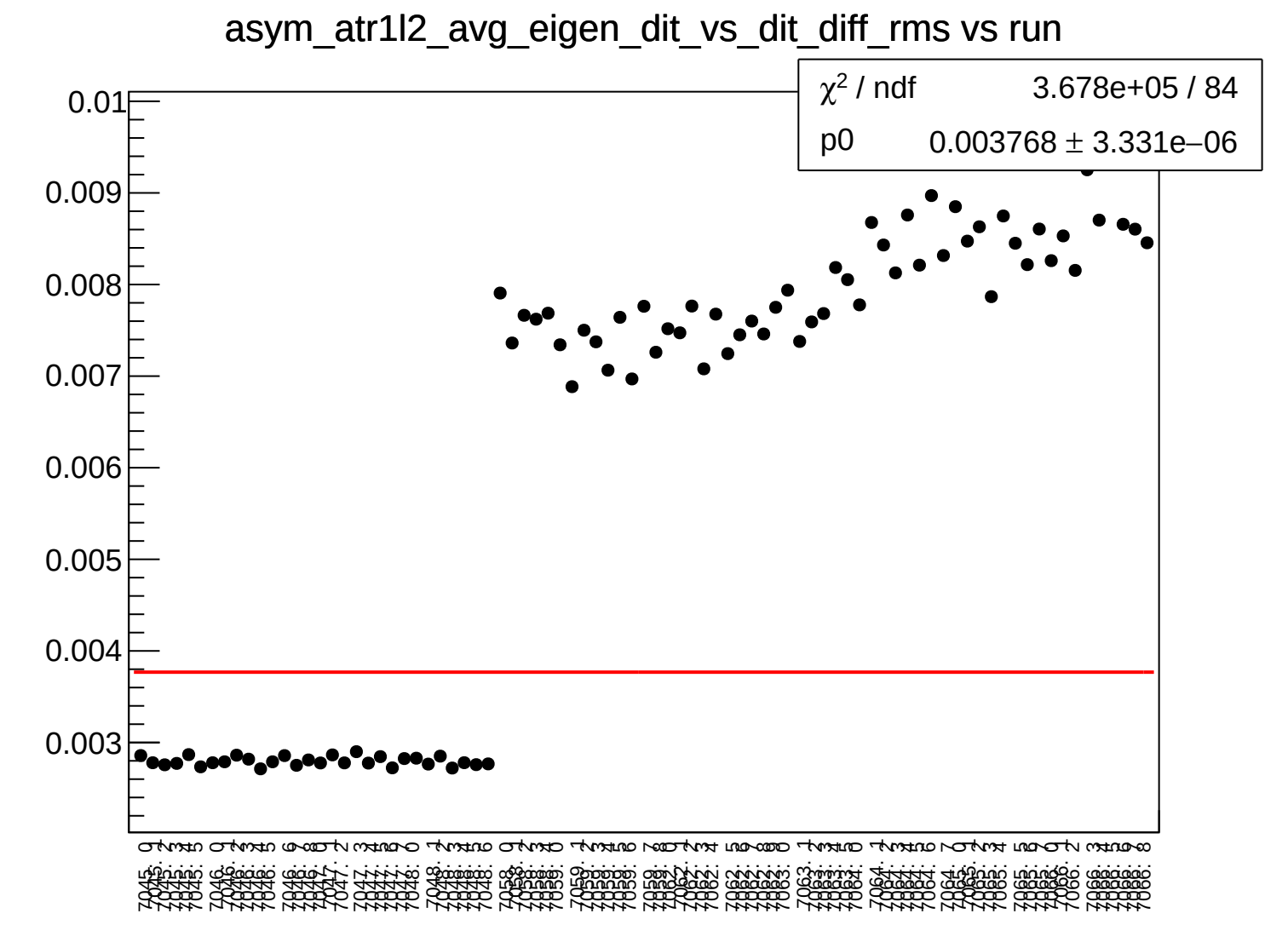

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.14 / 84
p0 −0.6971± 0.4285
pull
Entries 85
Mean 226.5
Std Dev 0

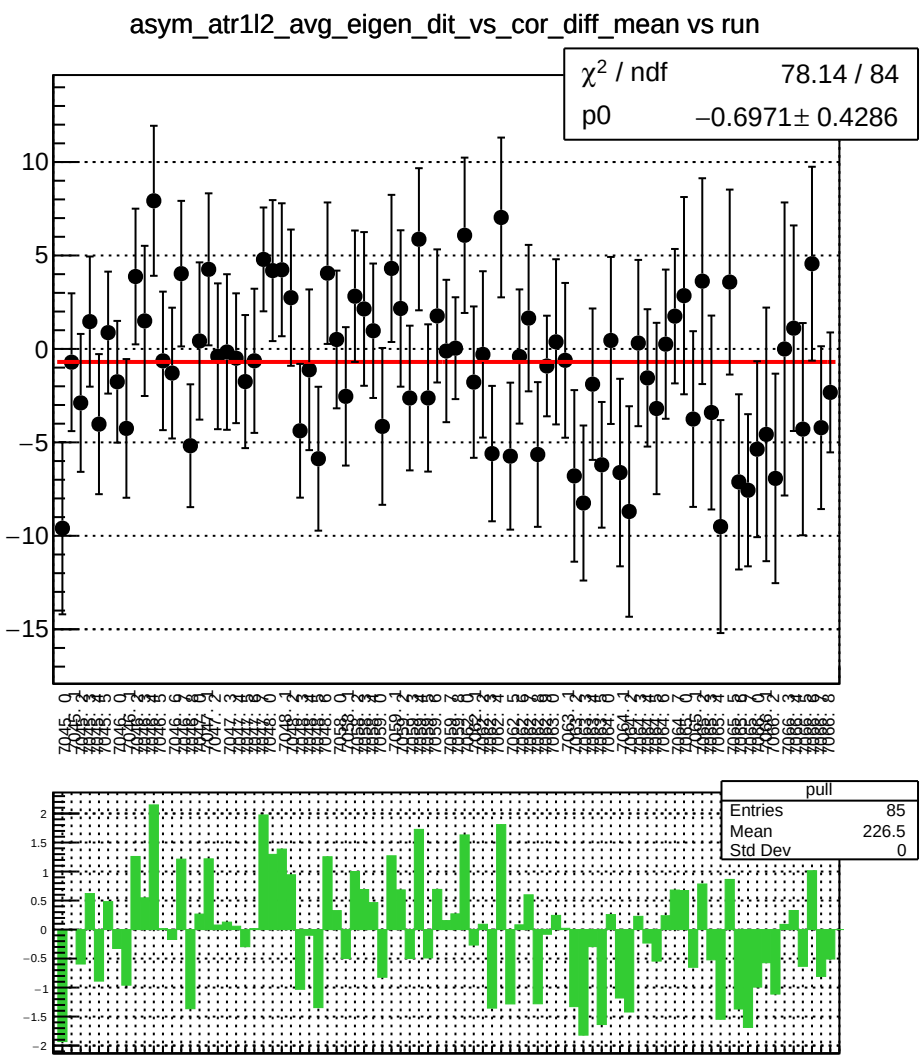

pull1D
Entries 85
Mean −0.03069
Std Dev 0.9583

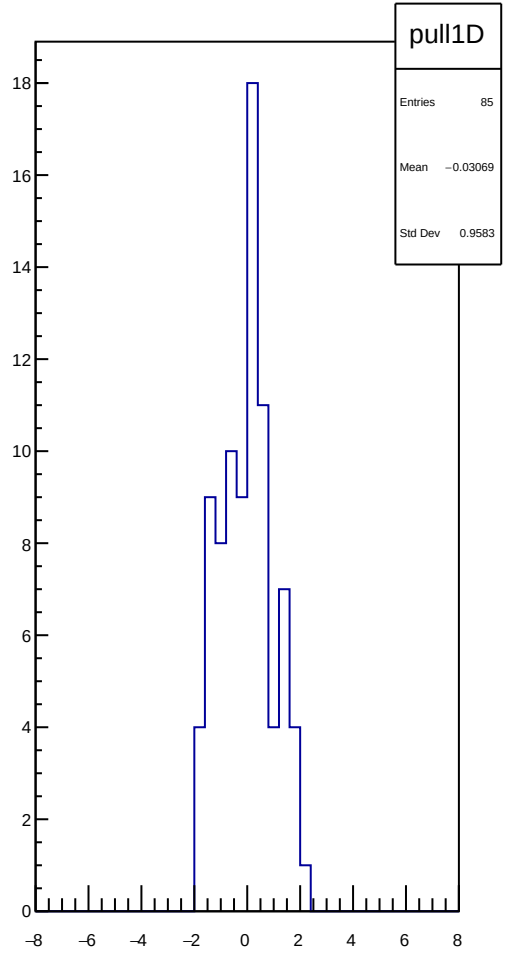

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.267e+04 / 84
p0 385 ± 0.303
700
600
500
400
300

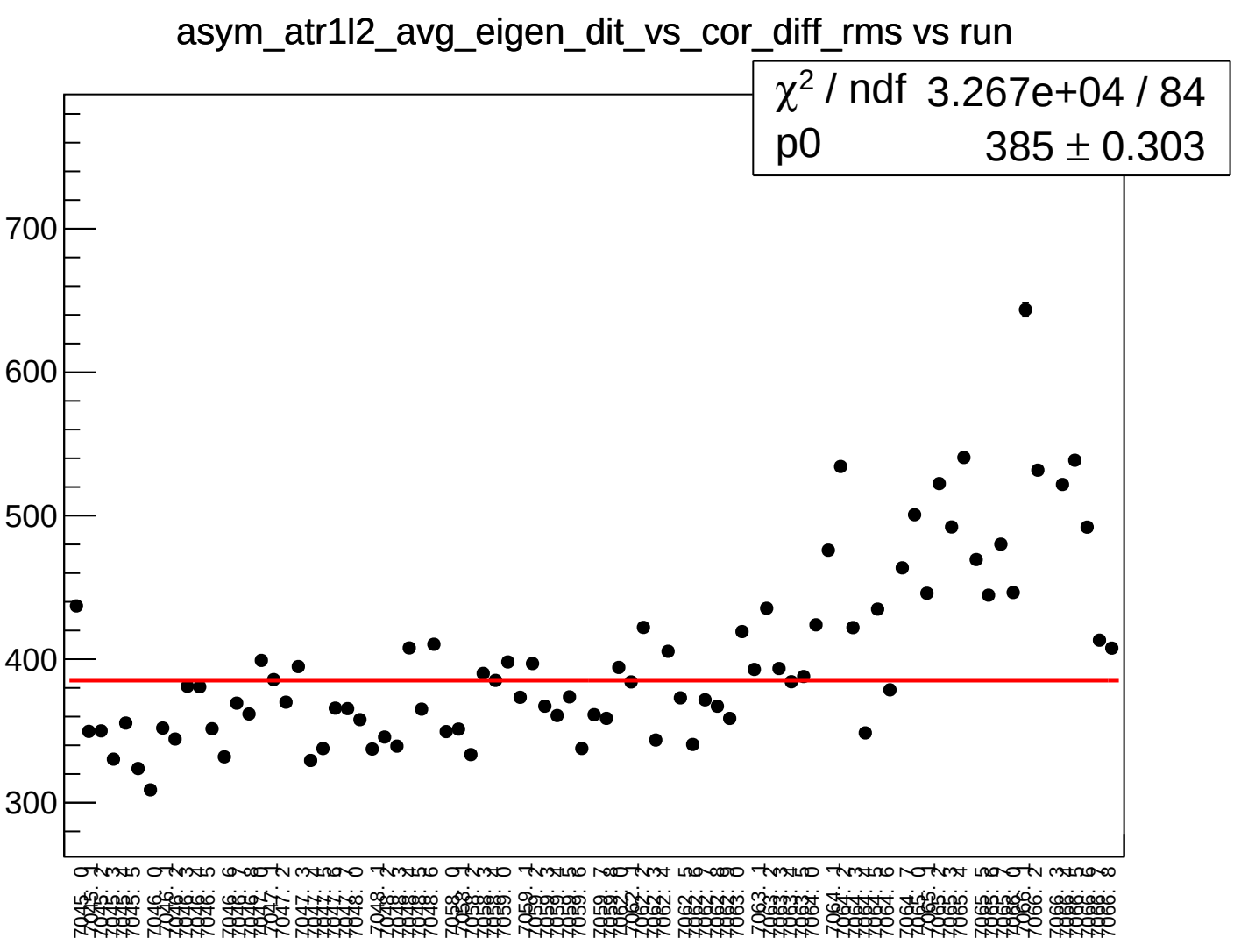

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.65 / 84
p0 2.836e−06 ± 4.711e−06
pull
Entries 85
Mean 96.39
Std Dev 0

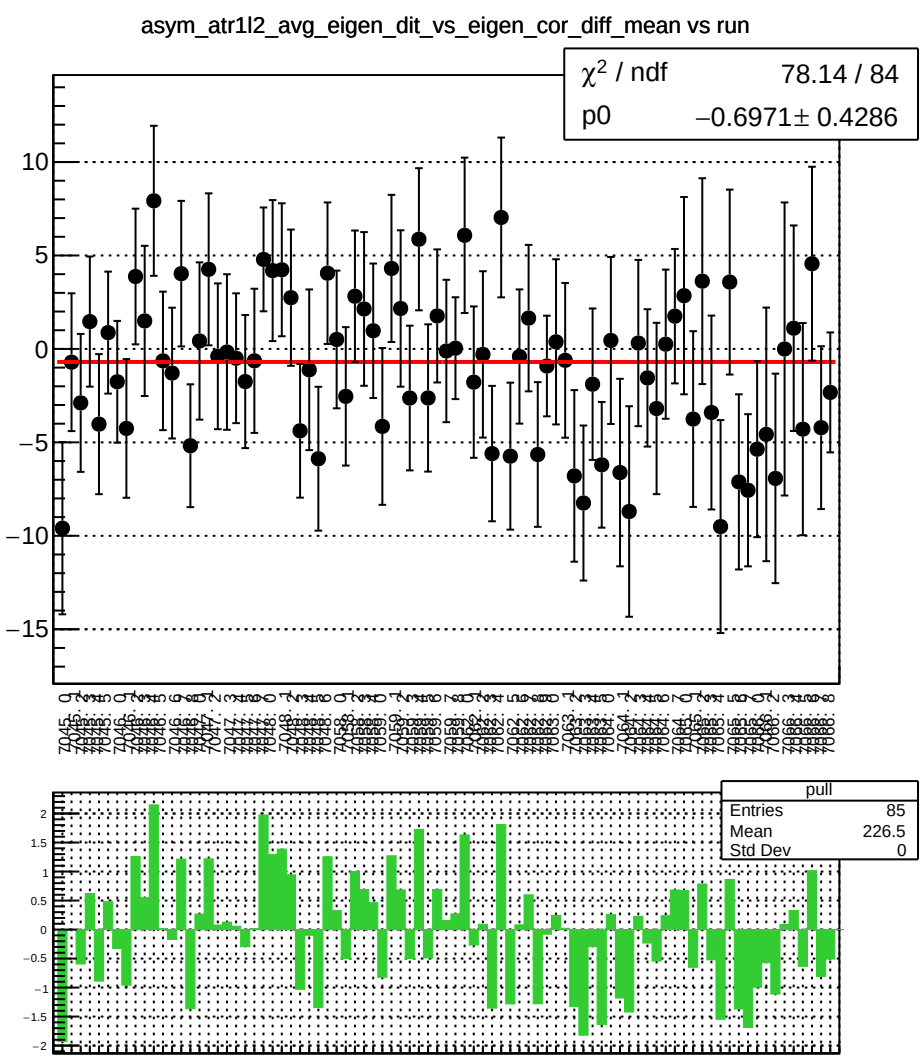

pull1D
Entries 85
Mean −0.1117
Std Dev 1.015

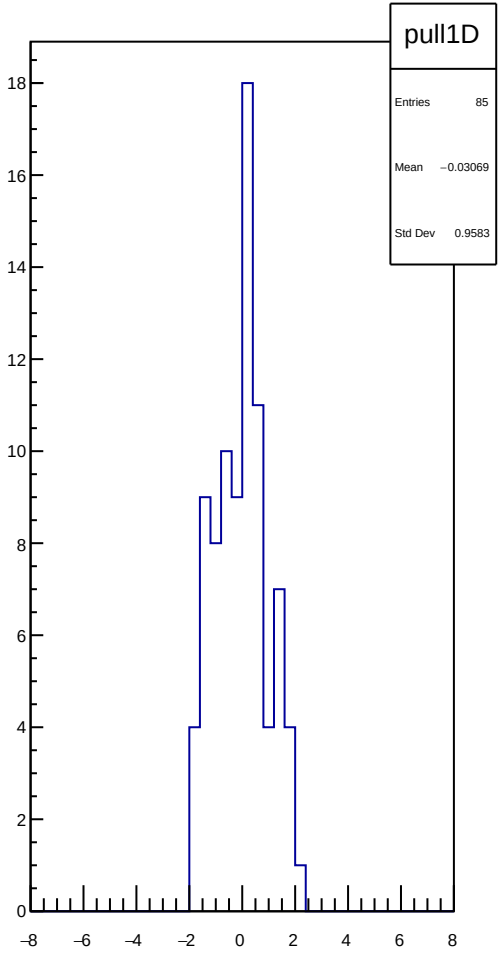

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.678e+05 / 84
p0 0.003768 ± 3.331e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

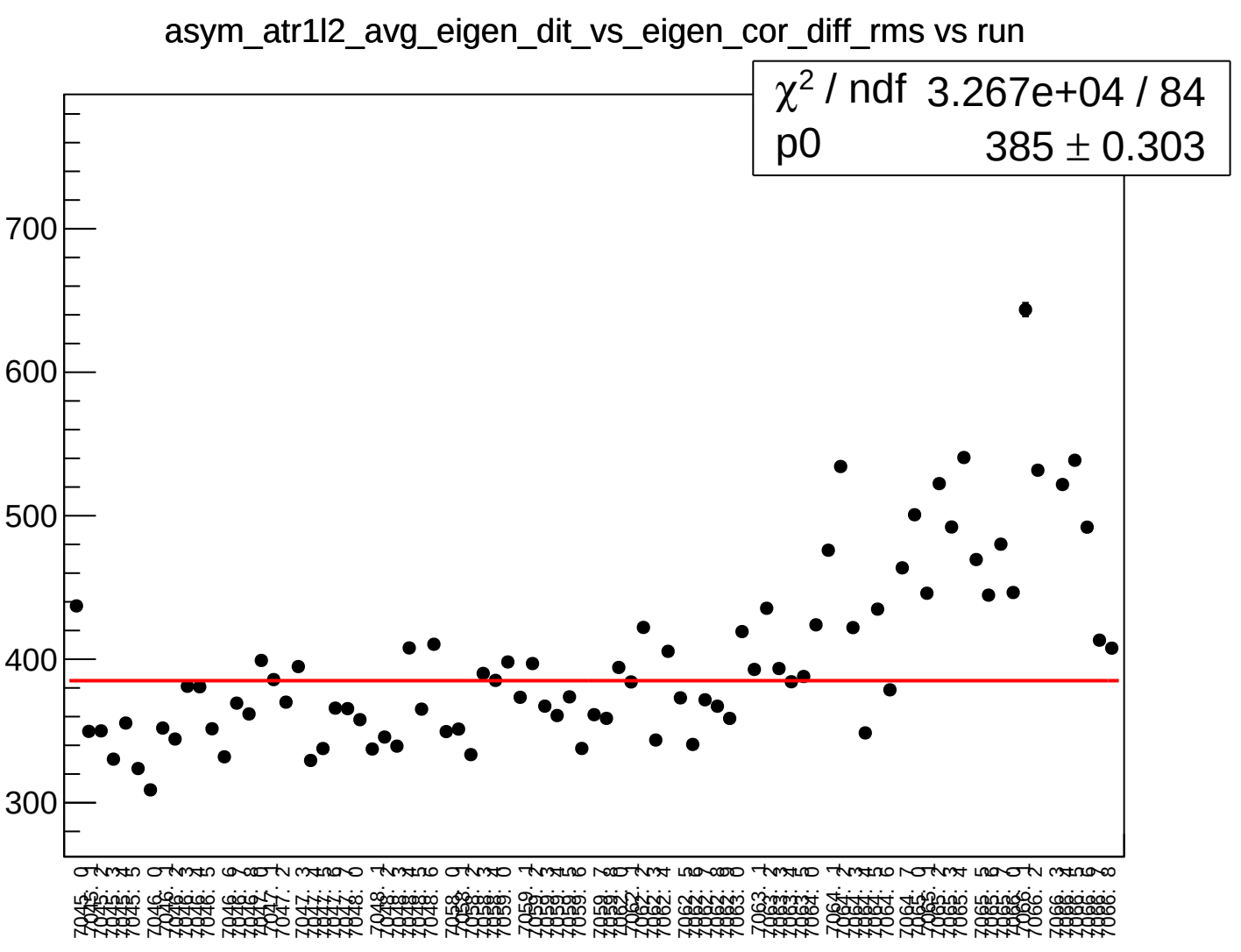

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.14 / 84
p0 −0.6971± 0.4286
pull
Entries 85
Mean 226.5
Std Dev 0

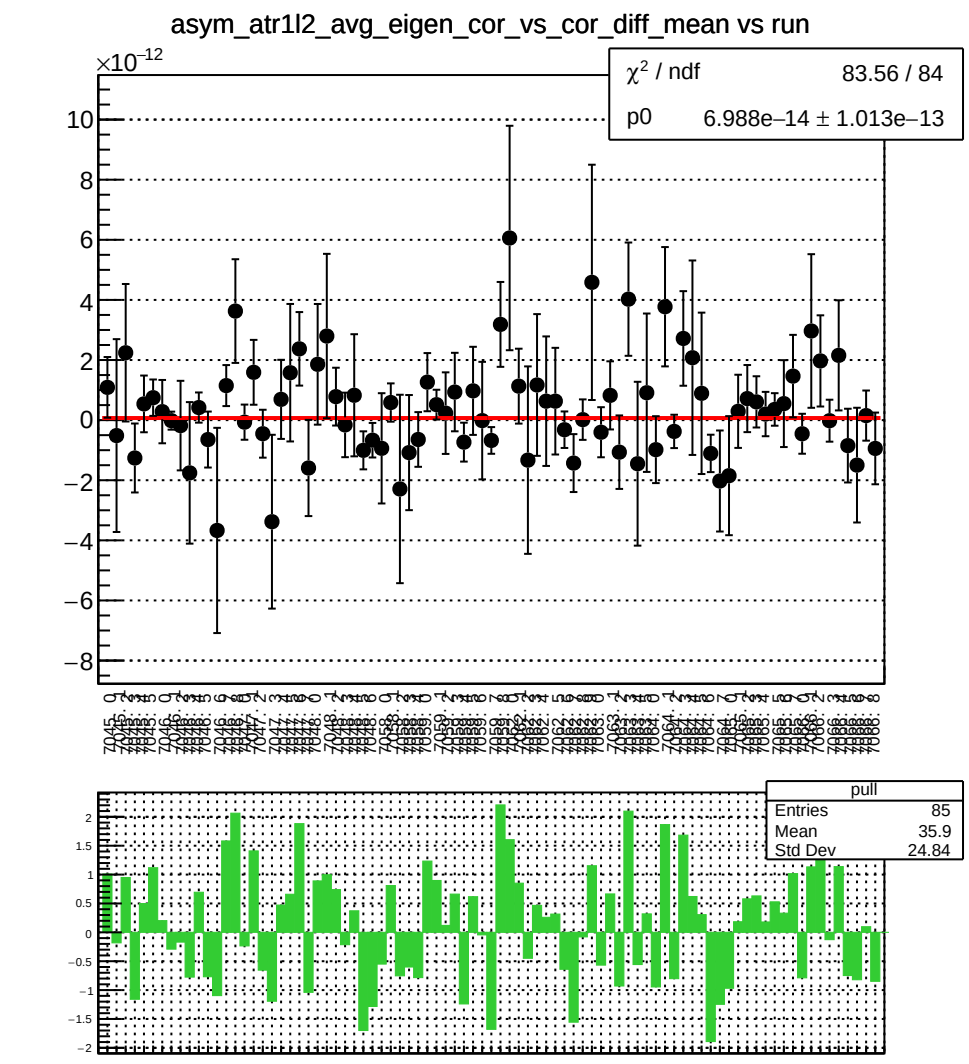

pull1D
Entries 85
Mean −0.03069
Std Dev 0.9583

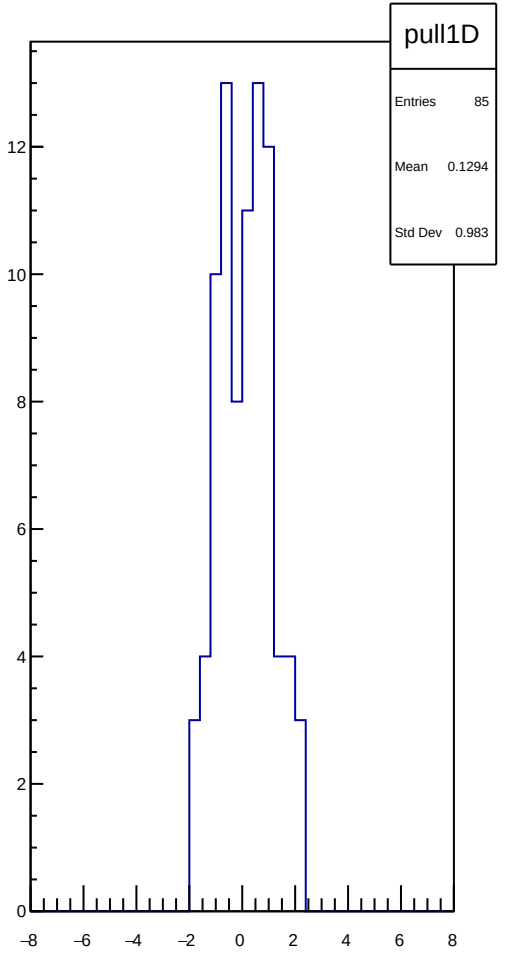

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.267e+04 / 84
p0 385 ± 0.303
700
600
500
400
300

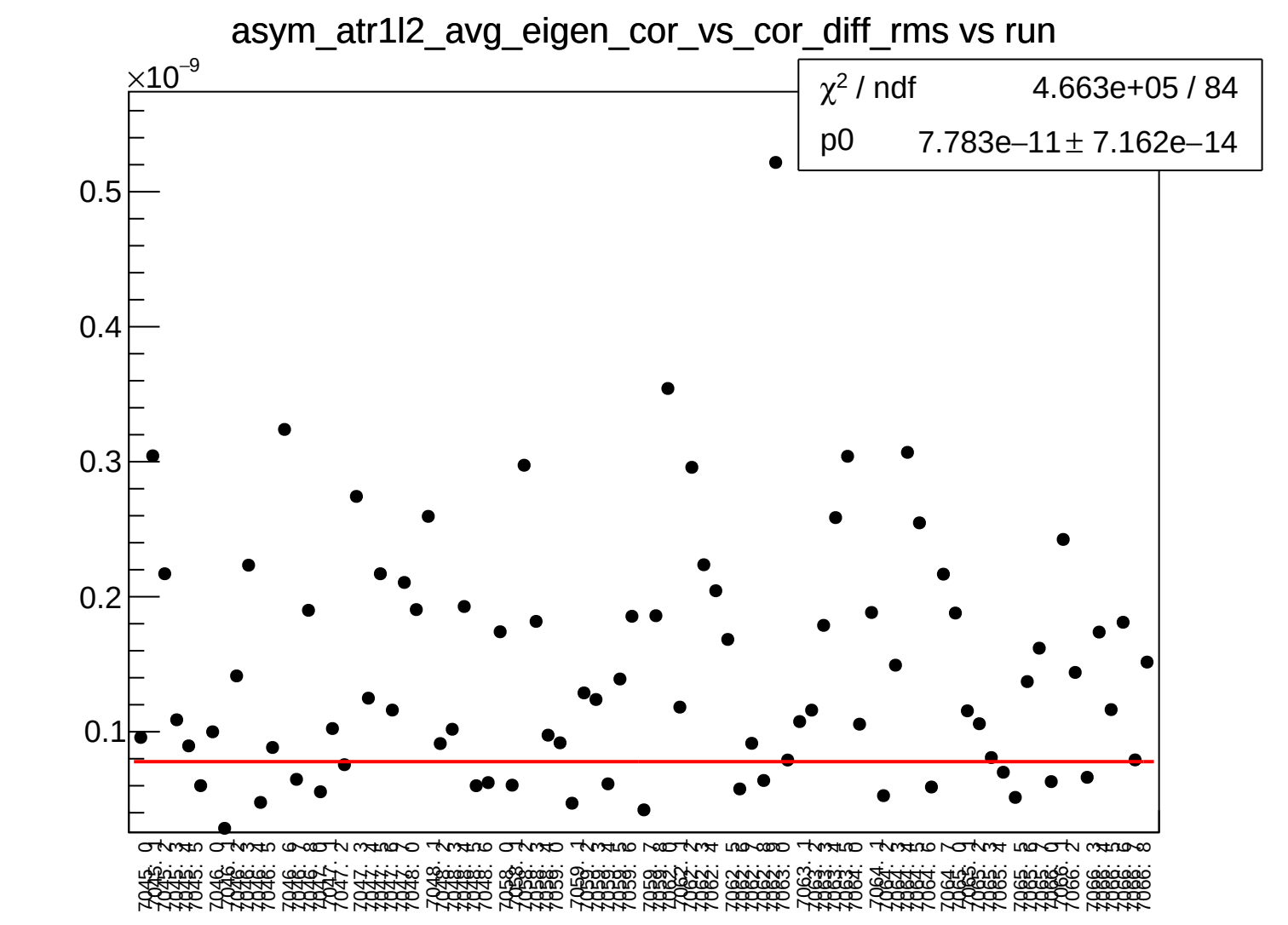

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.14 / 84
p0 −0.6971± 0.4286
pull
Entries 85
Mean 226.5
Std Dev 0

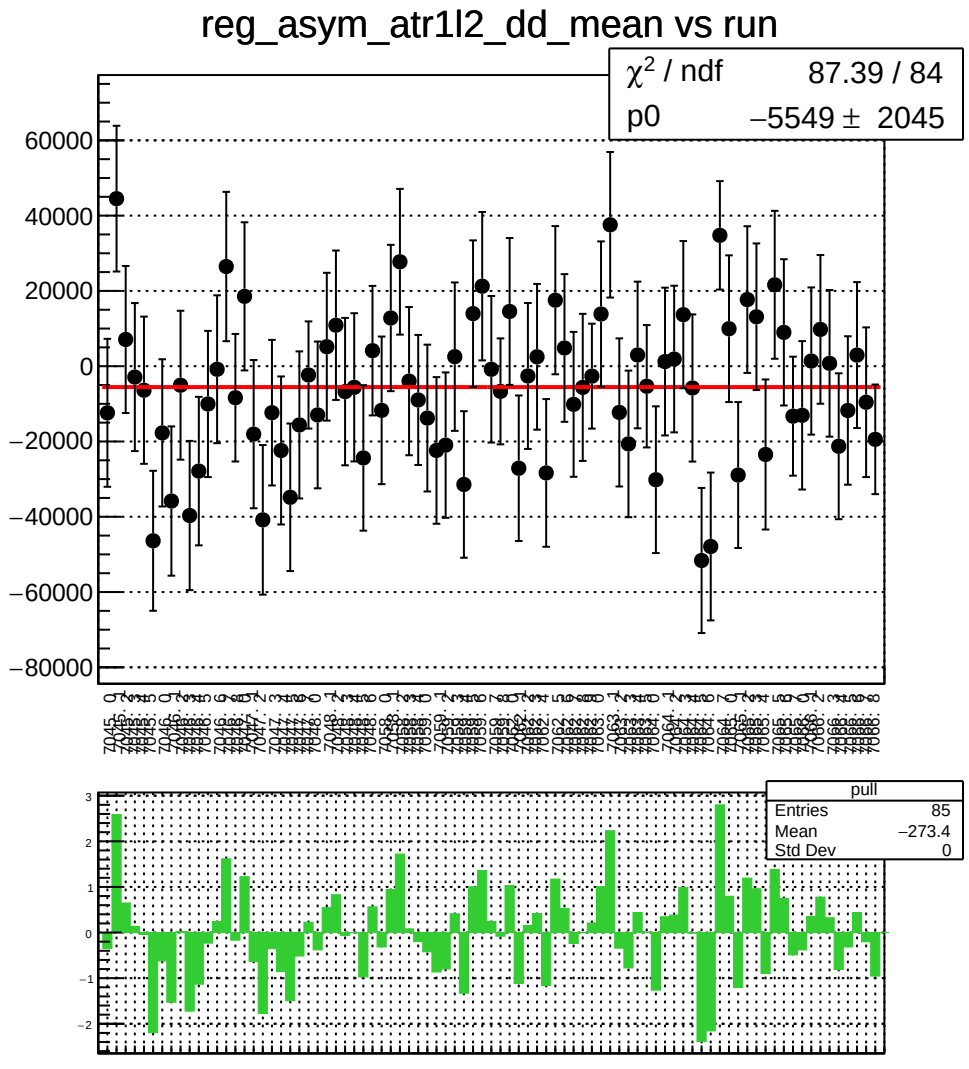

pull1D
Entries 85
Mean −0.03069
Std Dev 0.9583

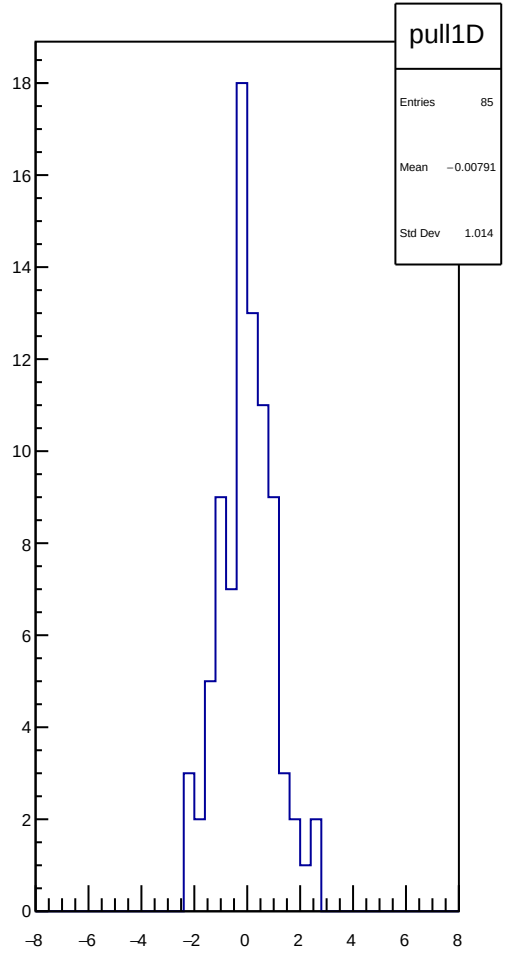

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.267e+04 / 84
p0 385 ± 0.303
700
600
500
400
300

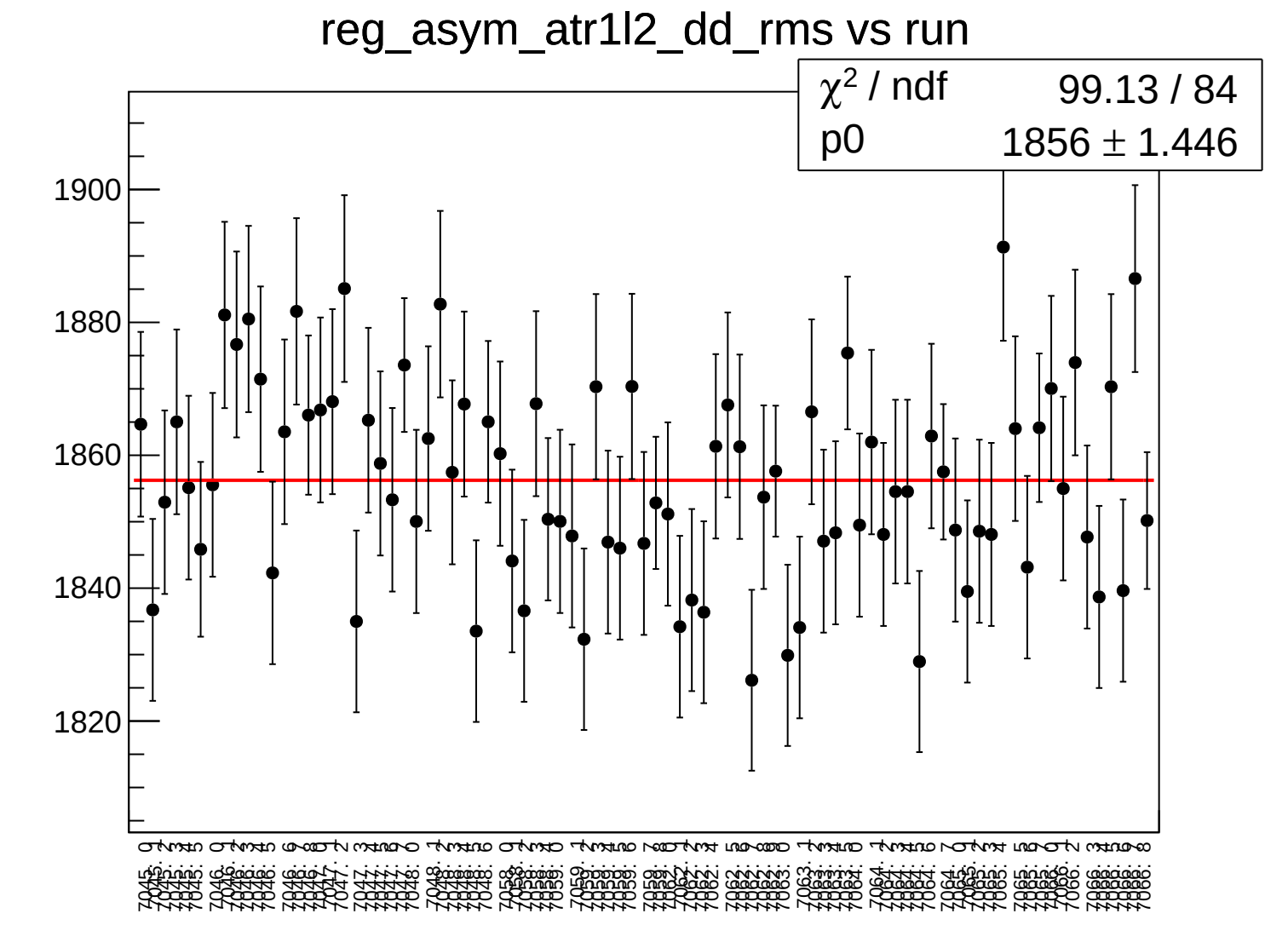

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.56 / 84
p0 6.988e−14 ± 1.013e−13
pull
Entries 85
Mean 35.9
Std Dev 24.84

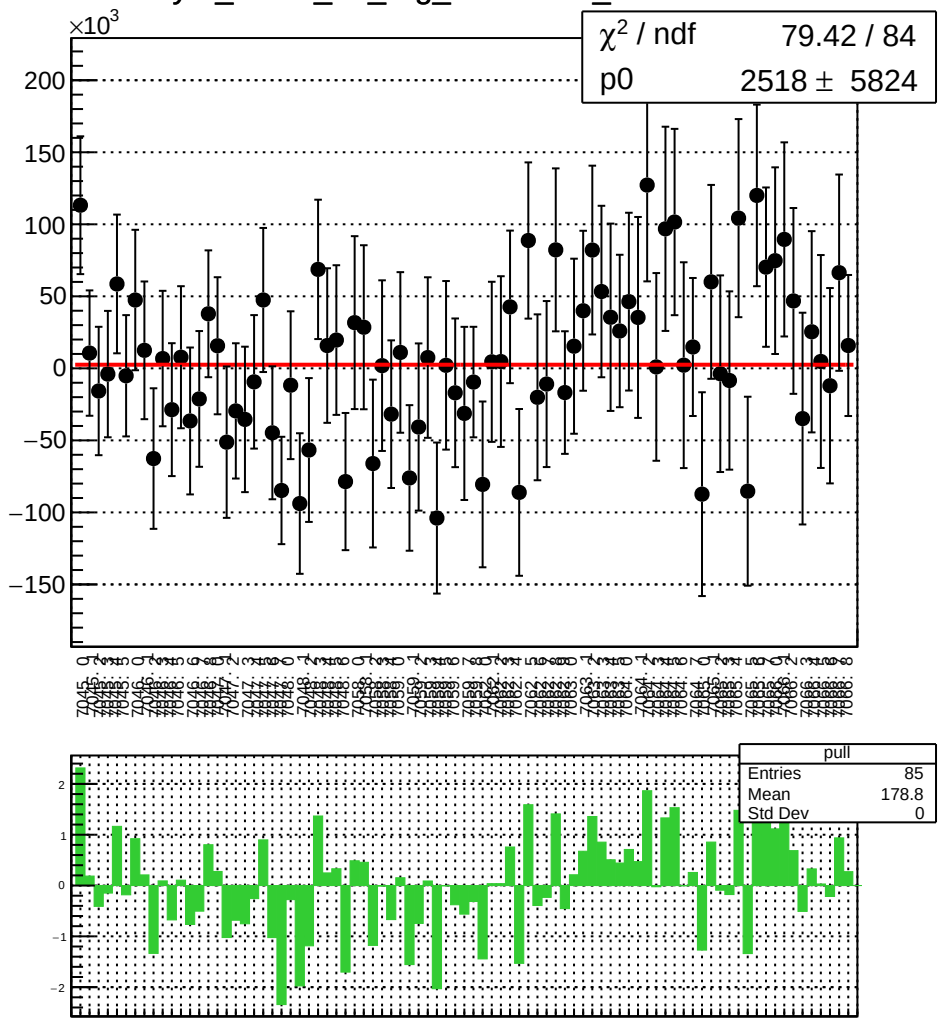

pull1D
Entries 85
Mean 0.1294
Std Dev 0.983

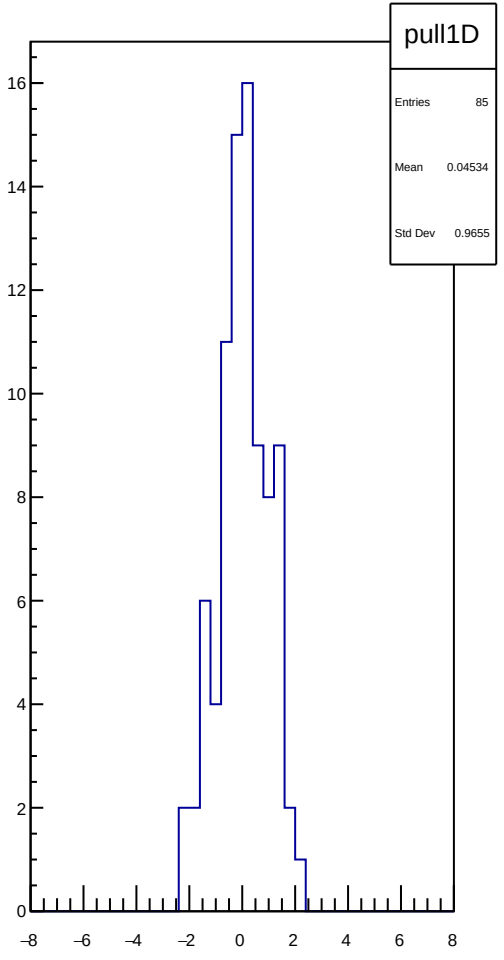

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.663e+05 / 84
p0 7.783e−11 ± 7.162e−14
0.5
0.4
0.3
0.2
0.1

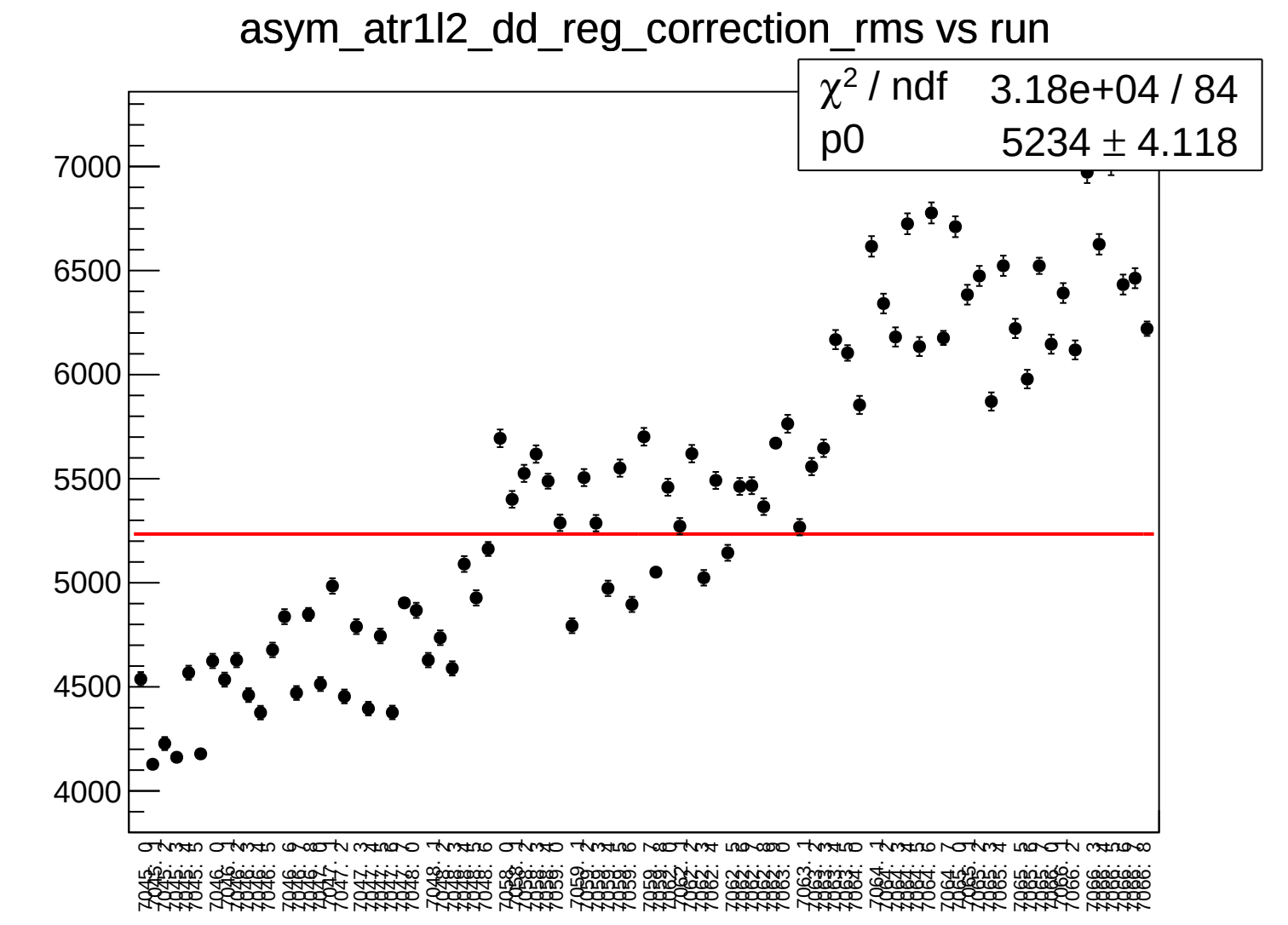

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 87.39 / 84
p0 −5549 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −273.4
Std Dev 0
3
2
1
0
−1
−2

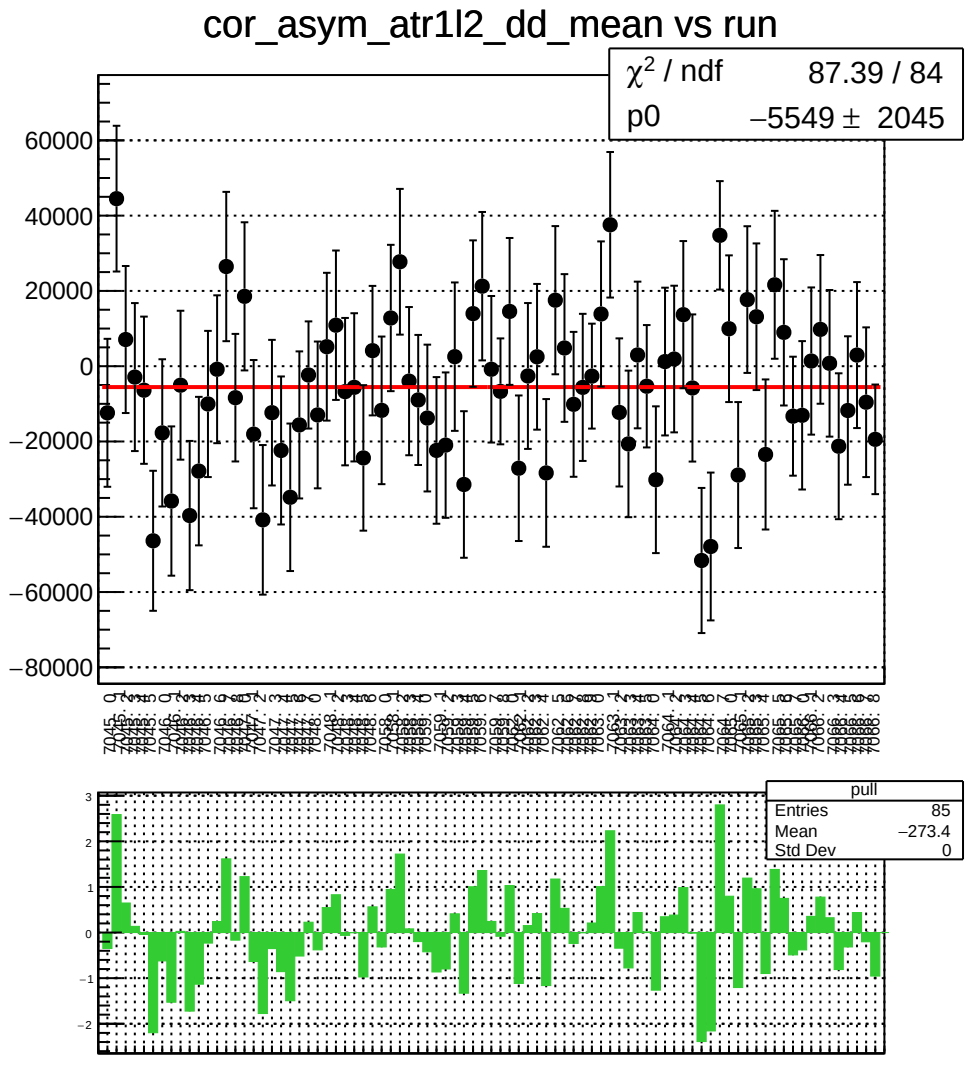

pull1D
Entries 85
Mean −0.00791
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

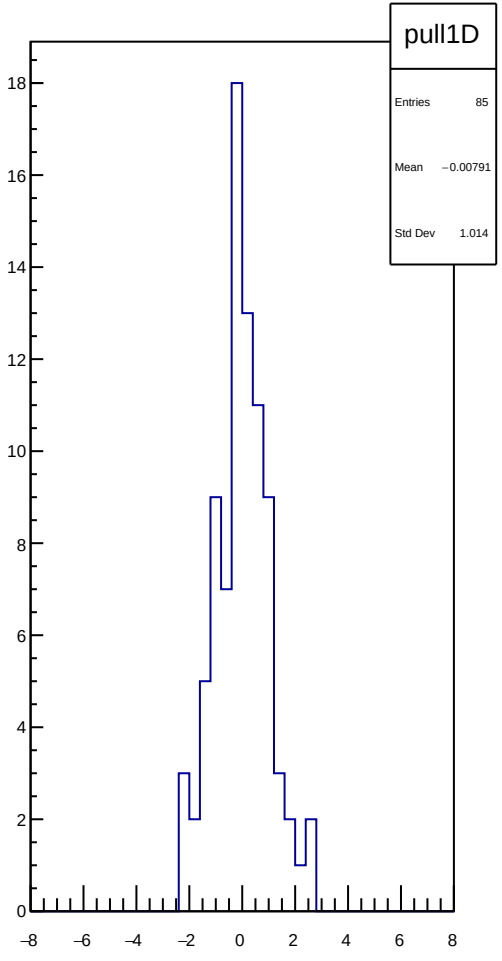

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 99.13 / 84
p0 1856 ± 1.446
1900
1880
1860
1840
1820

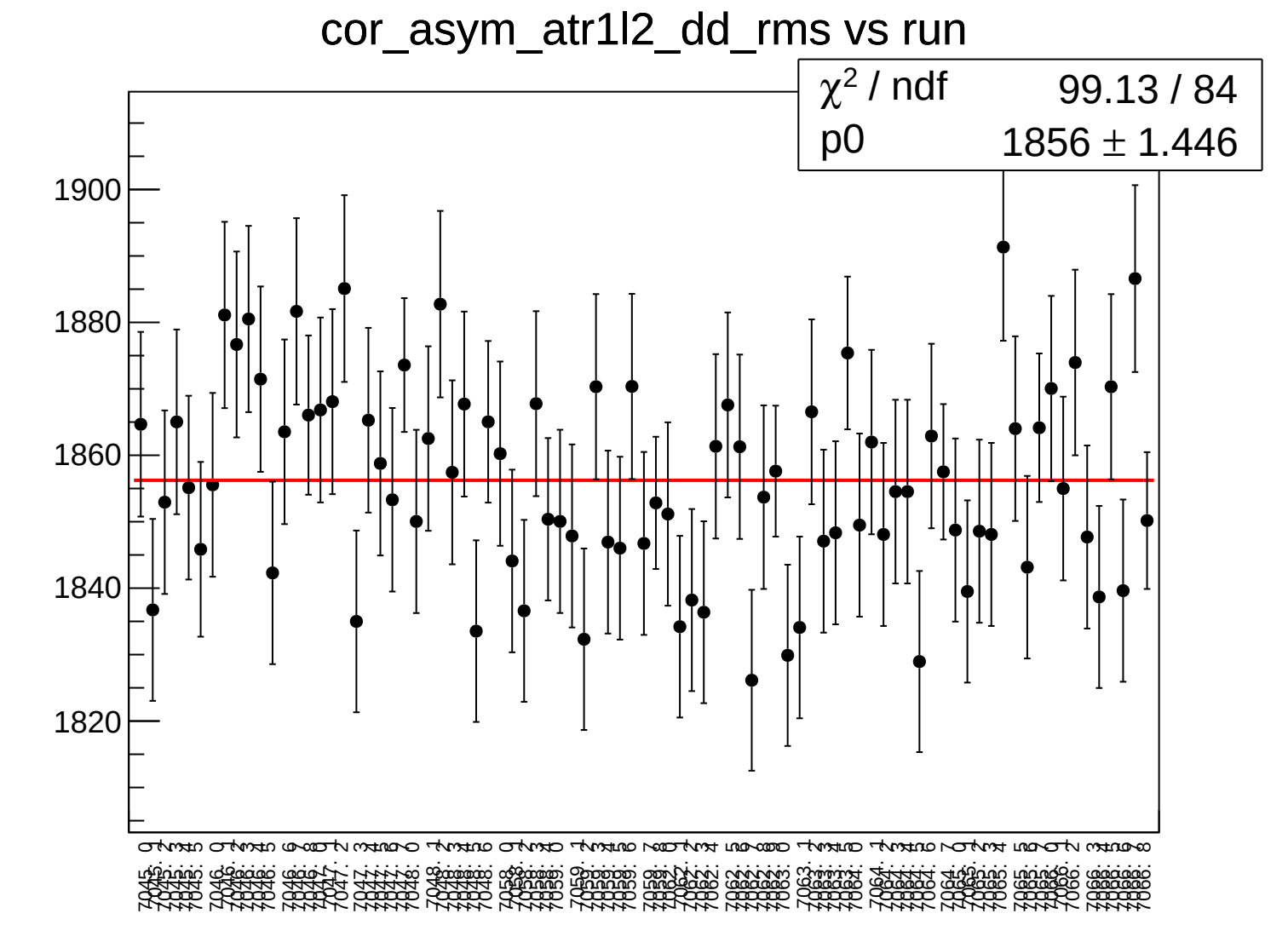

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.42 / 84
p0 2518 ± 5824
pull
Entries 85
Mean 178.8
Std Dev 0

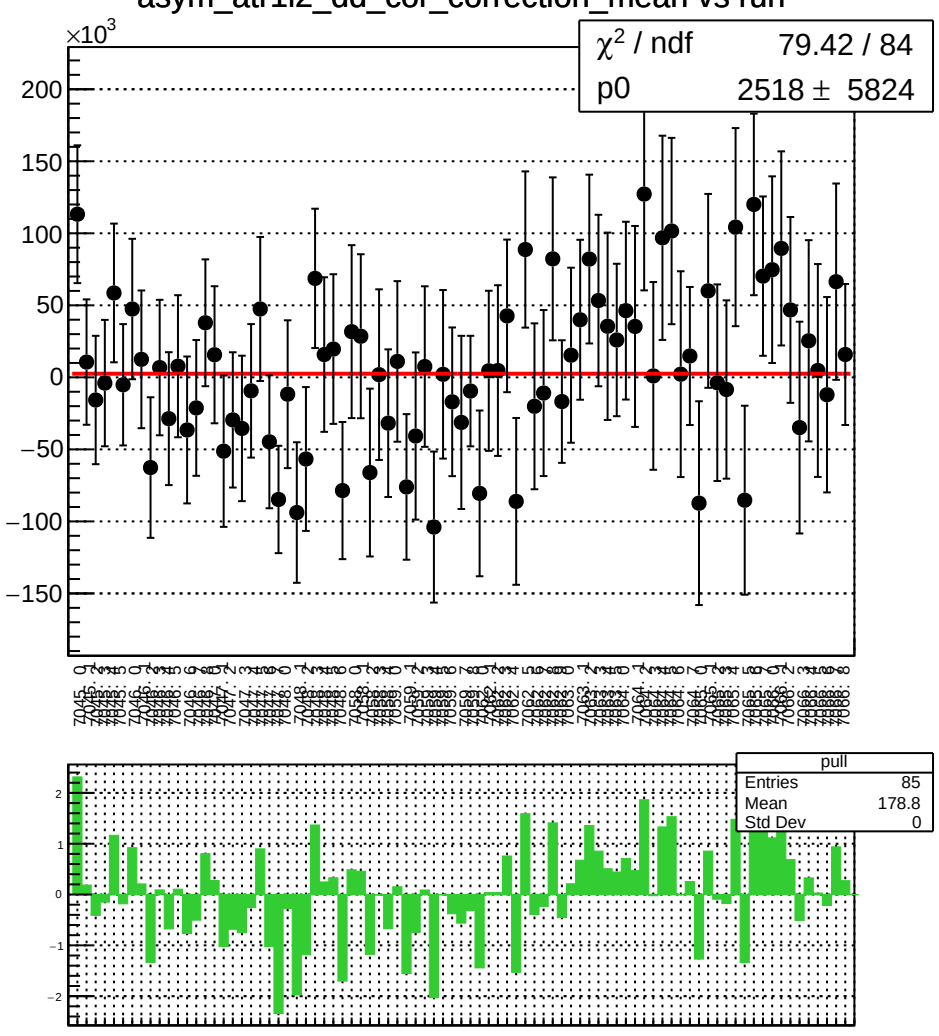

pull1D
Entries 85
Mean 0.04534
Std Dev 0.9655

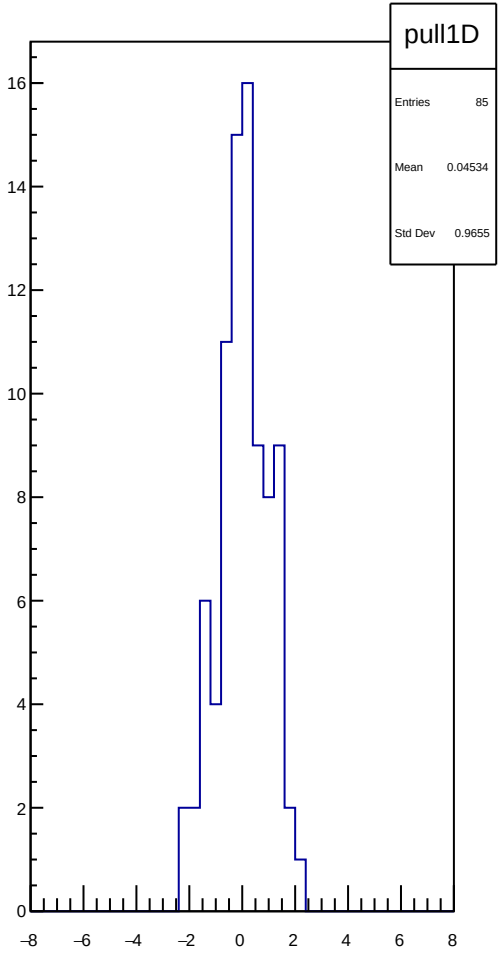

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3.18e+04 / 84
p0 5234 ± 4.118
7000
6500
6000
5500
5000
4500
4000

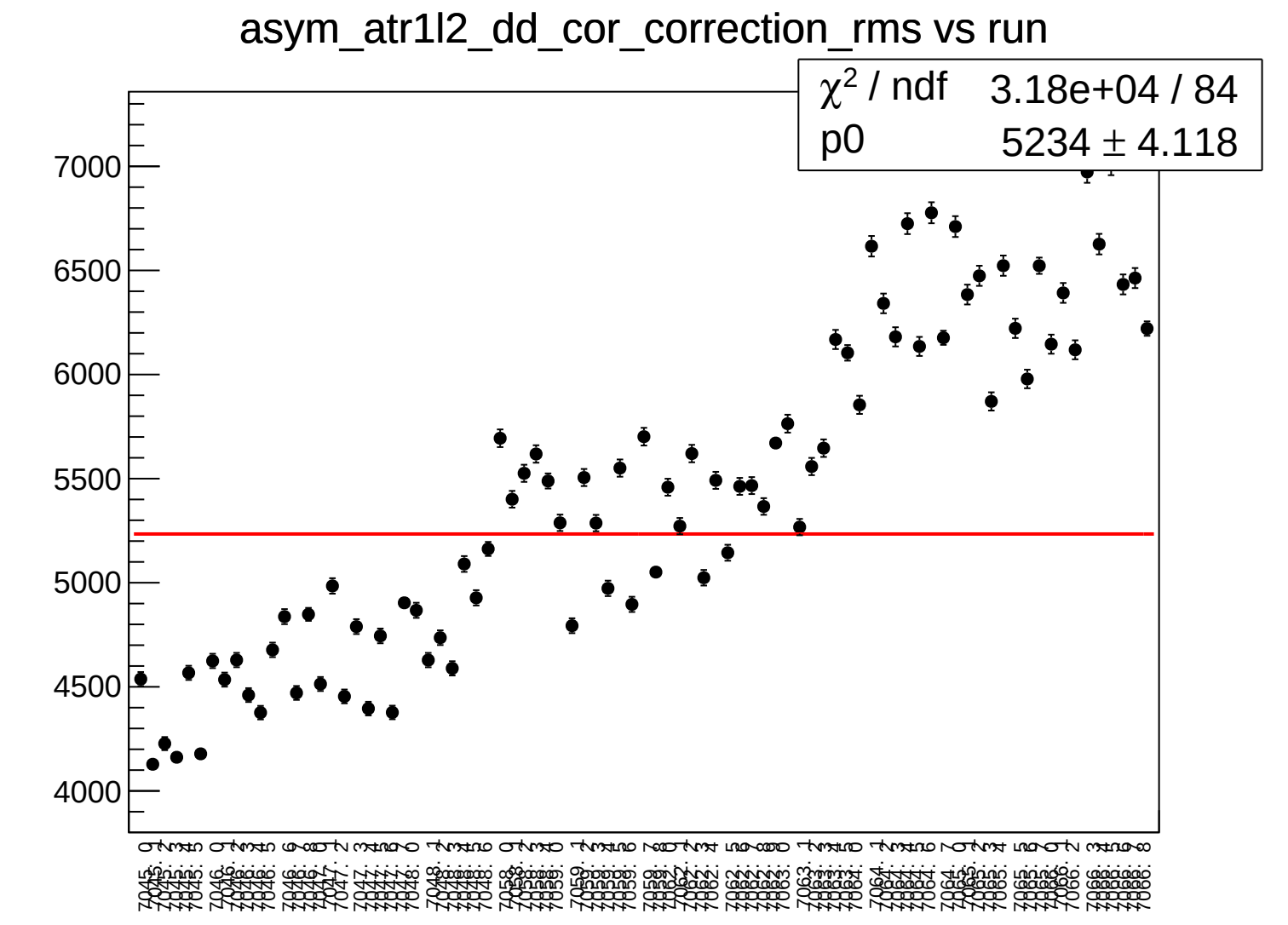

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 87.39 / 84
p0 −5549 ± 2045
pull
Entries 85
Mean −273.4
Std Dev 0

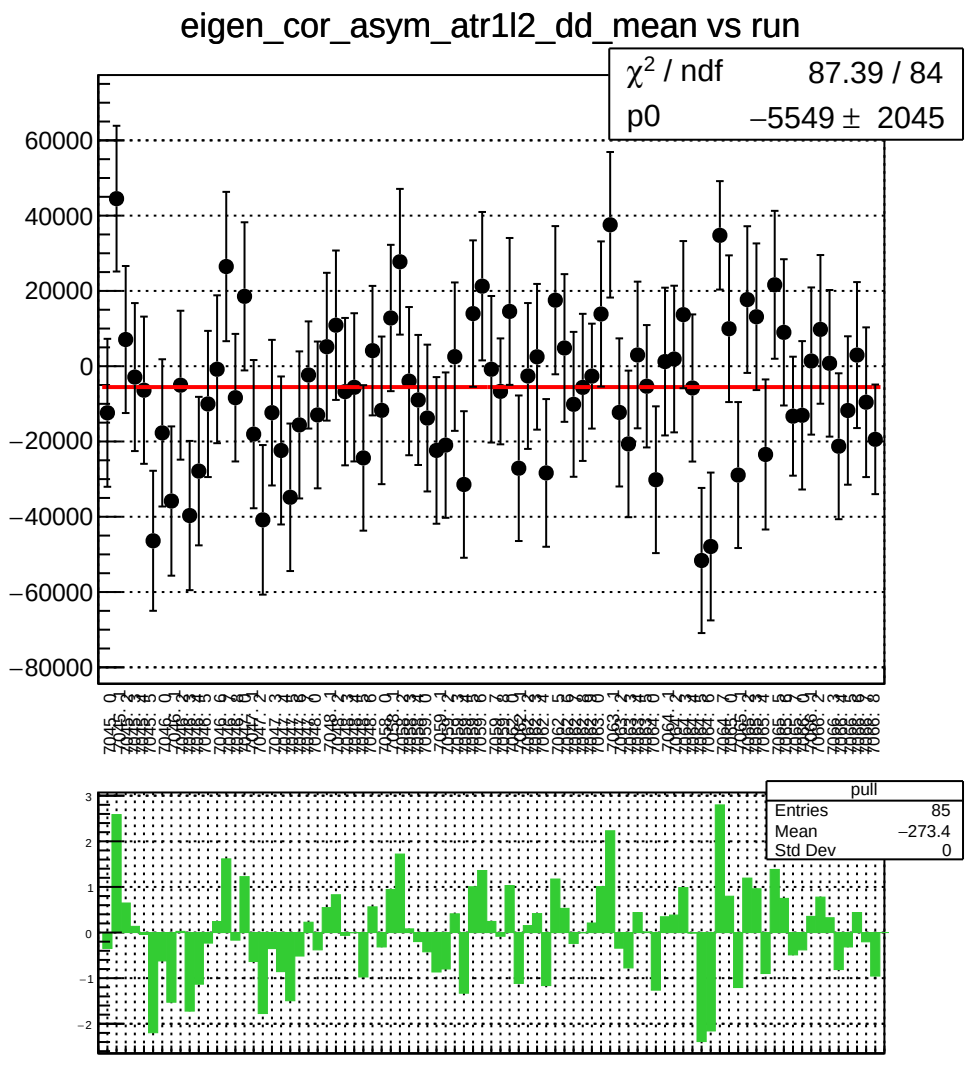

pull1D
Entries 85
Mean −0.00791
Std Dev 1.014

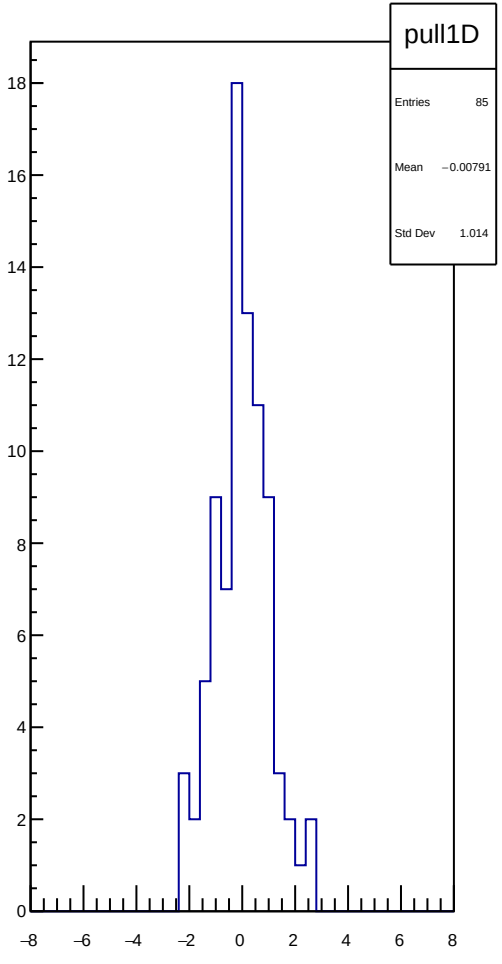

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 99.13 / 84
p0 1856 ± 1.446
1900
1880
1860
1840
1820

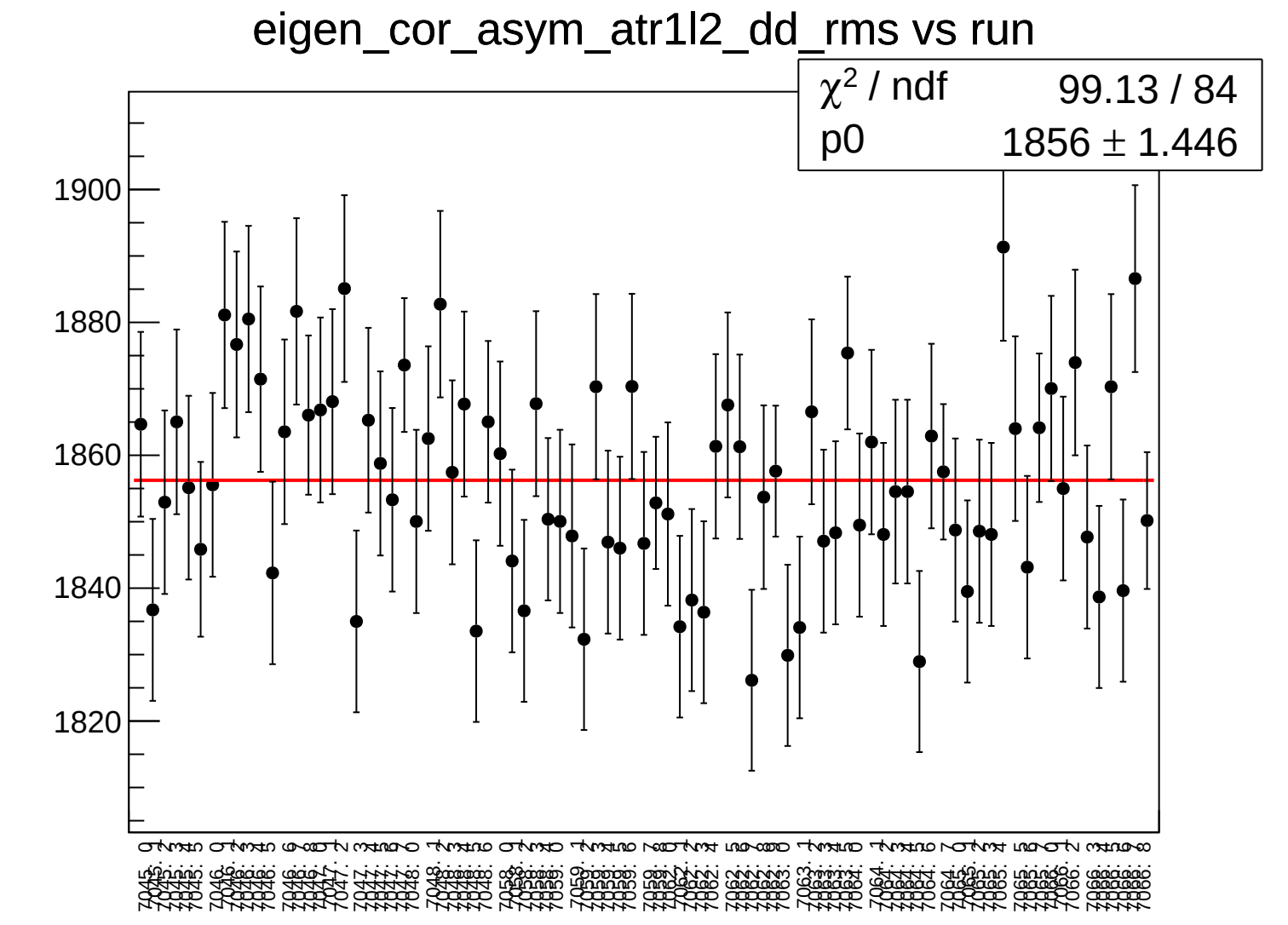

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 79.42 / 84
p0 2518 ± 5824
×10³
pull
Entries 85
Mean 178.8
Std Dev 0

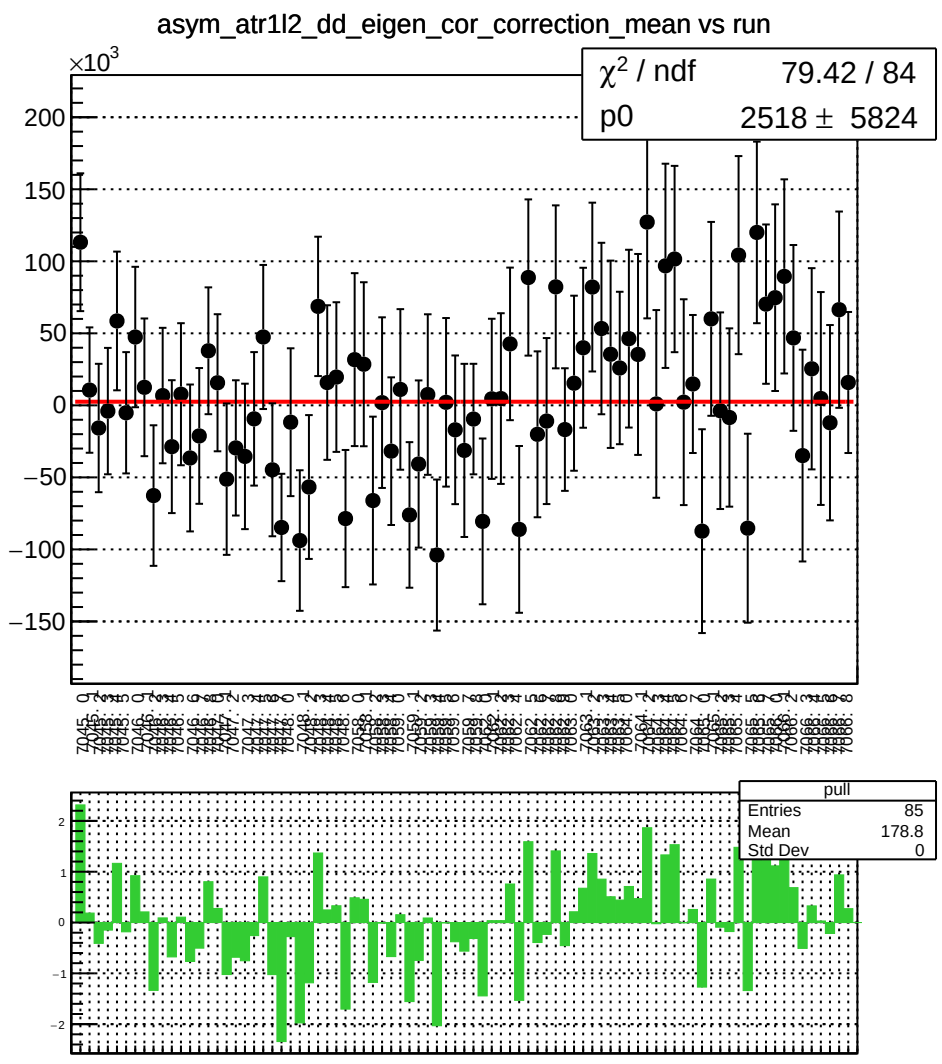

pull1D
Entries 85
Mean 0.04534
Std Dev 0.9655

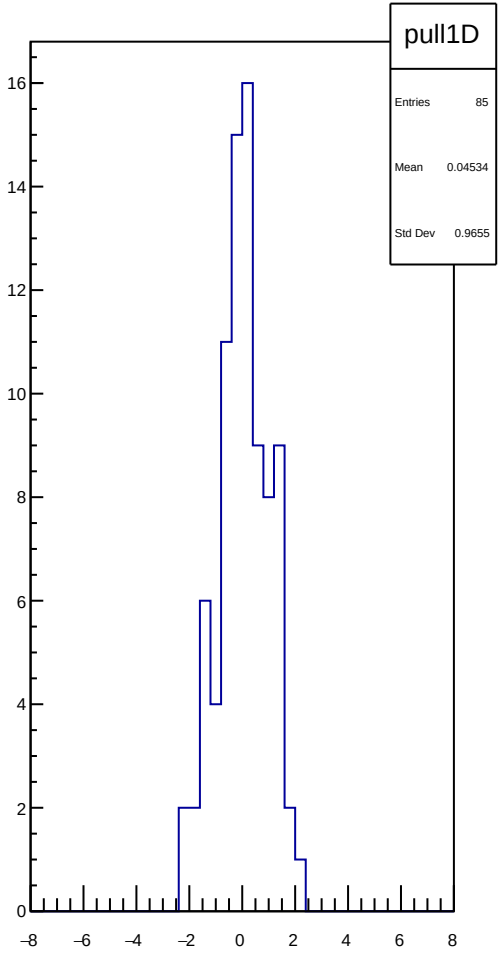

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3.18e+04 / 84
p0 5234 ± 4.118
7000
6500
6000
5500
5000
4500
4000

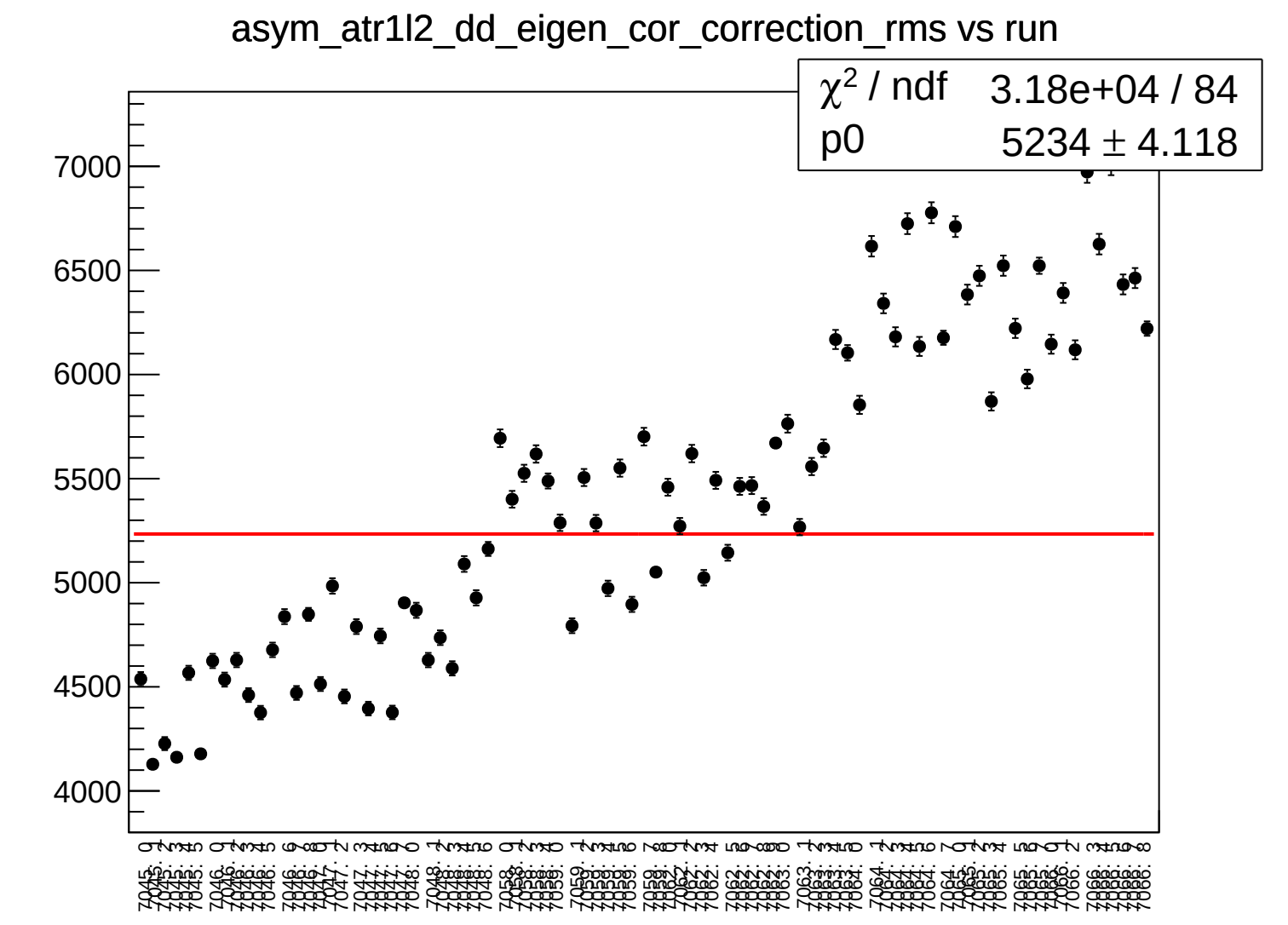

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 87.39 / 84
p0 −5549 ± 2045
pull
Entries 85
Mean −273.4
Std Dev 0

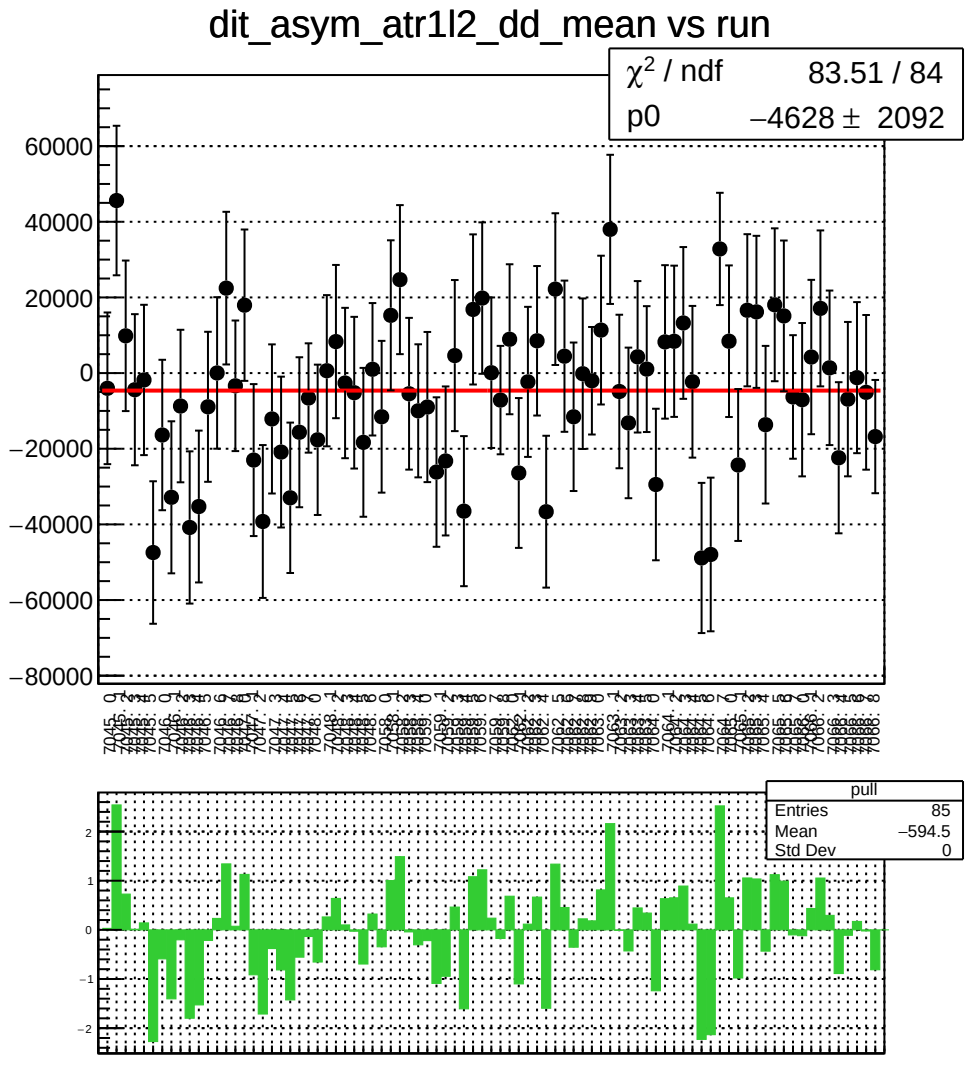

pull1D
Entries 85
Mean −0.00791
Std Dev 1.014

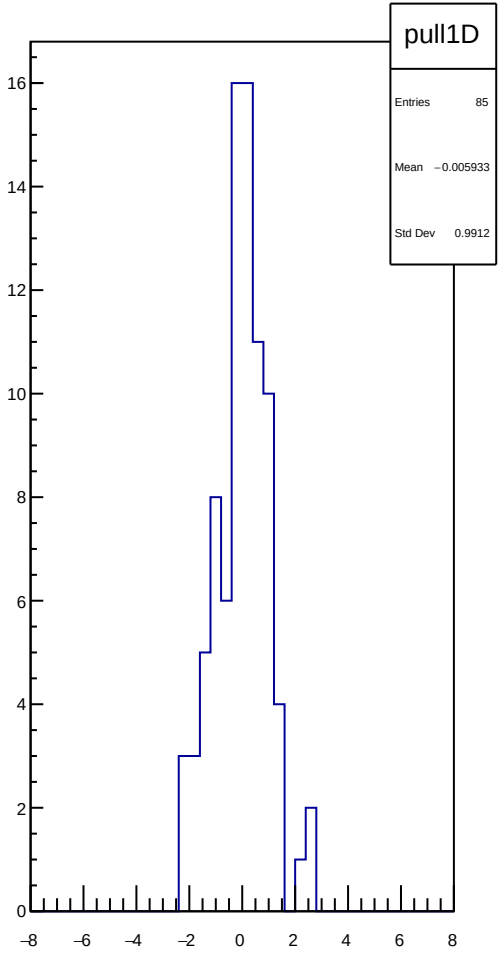

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 99.13 / 84
p0 1856 ± 1.446
1900
1880
1860
1840
1820

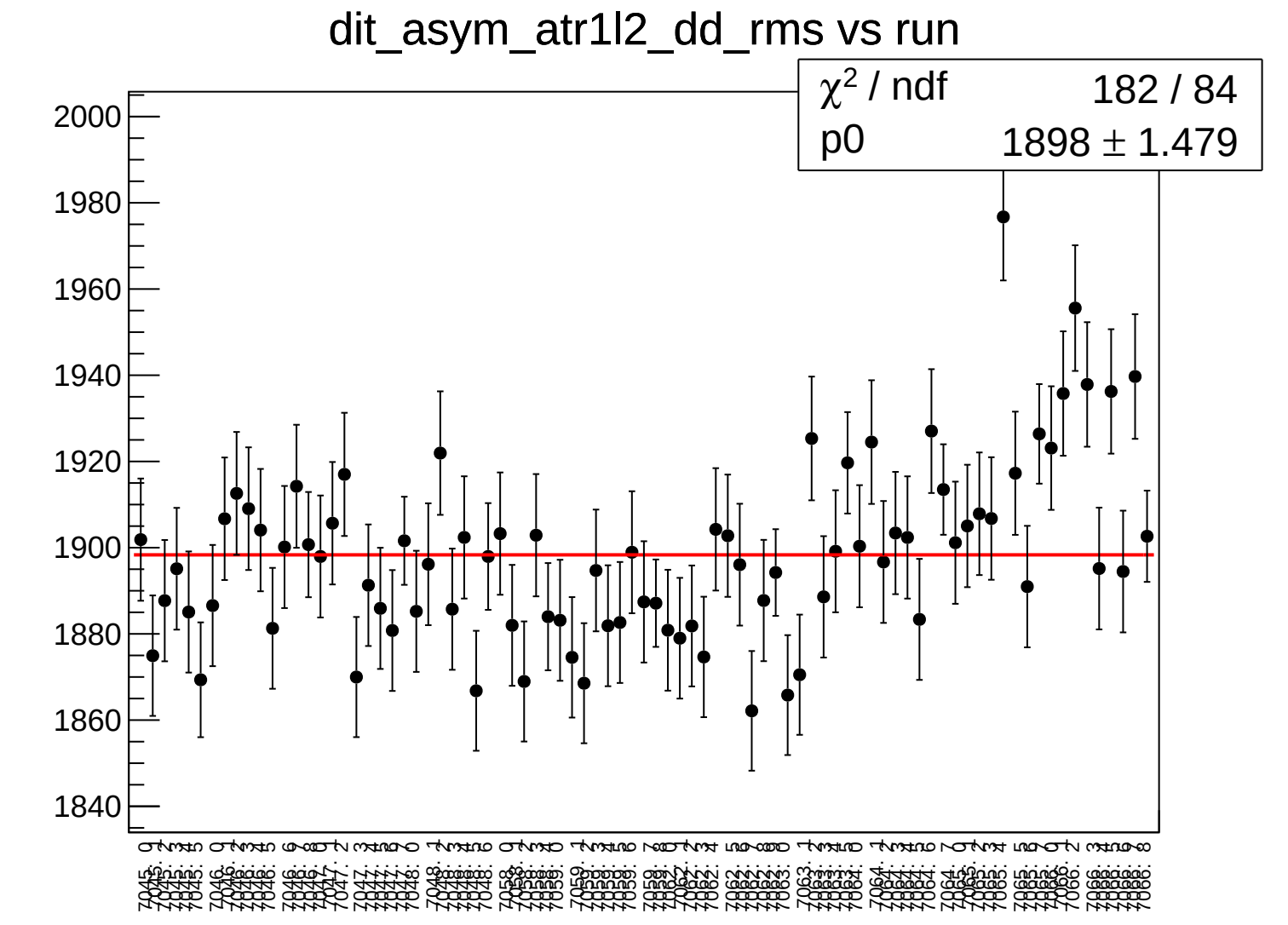

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.42 / 84
p0 2518 ± 5824
×10³
pull
Entries 85
Mean 178.8
Std Dev 0

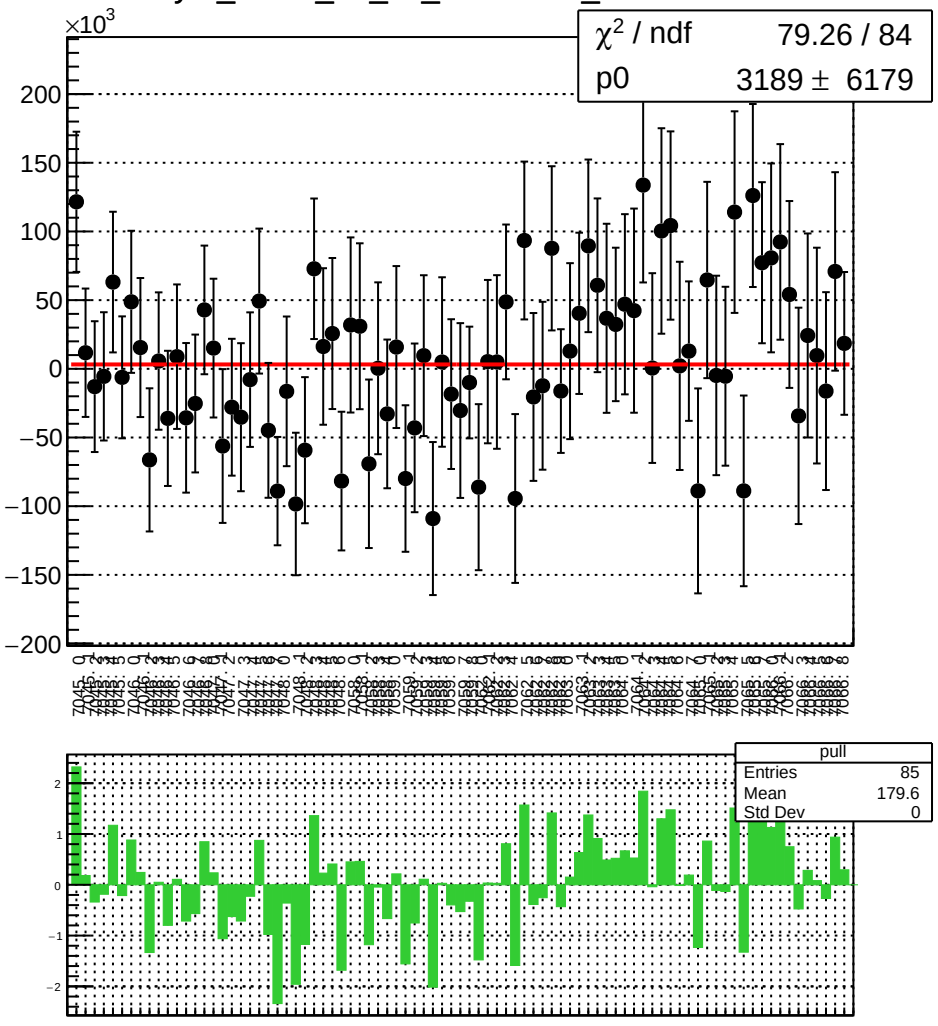

pull1D
Entries 85
Mean 0.04534
Std Dev 0.9655

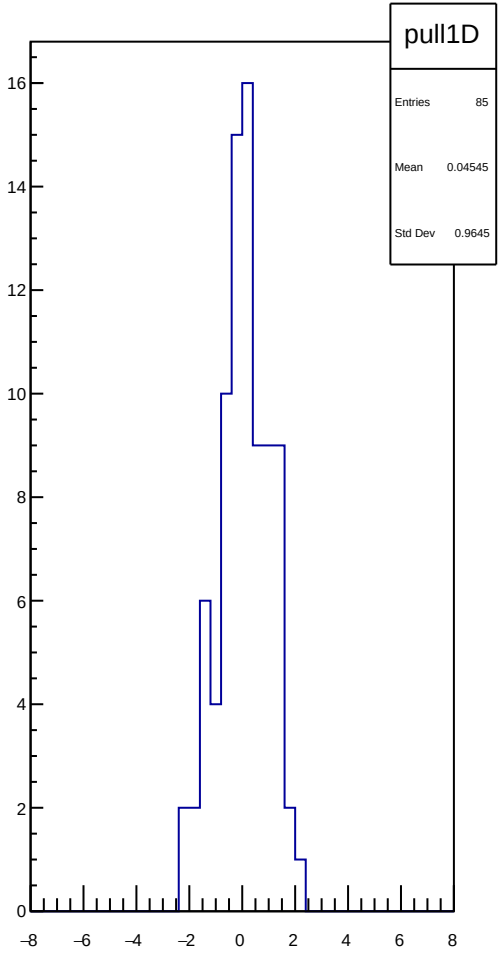

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.18e+04 / 84
p0 5234 ± 4.118
7000
6500
6000
5500
5000
4500
4000

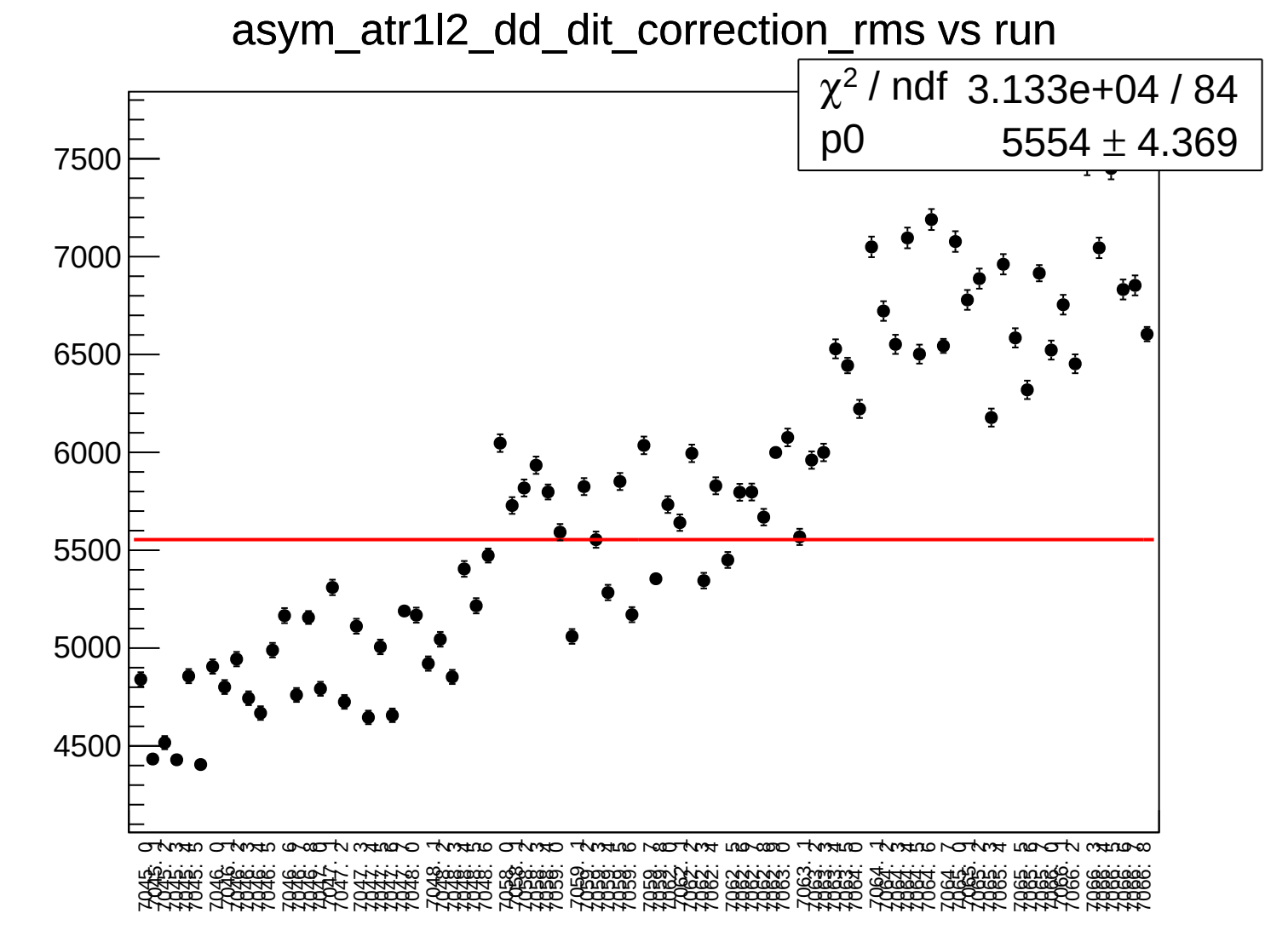

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 83.51 / 84
p0 −4628 ± 2092
pull
Entries 85
Mean −594.5
Std Dev 0

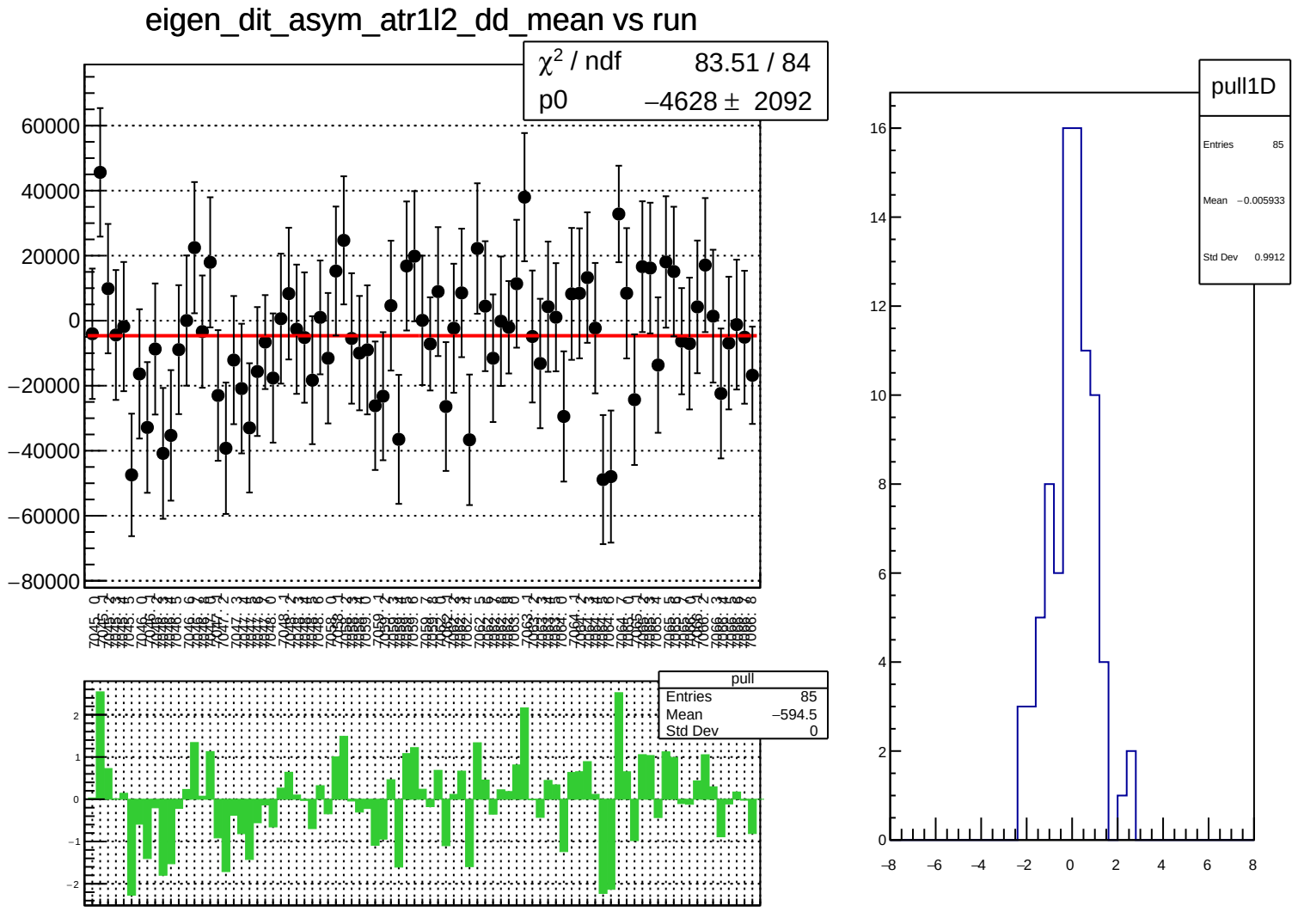

pull1D
Entries 85
Mean −0.005933
Std Dev 0.9912

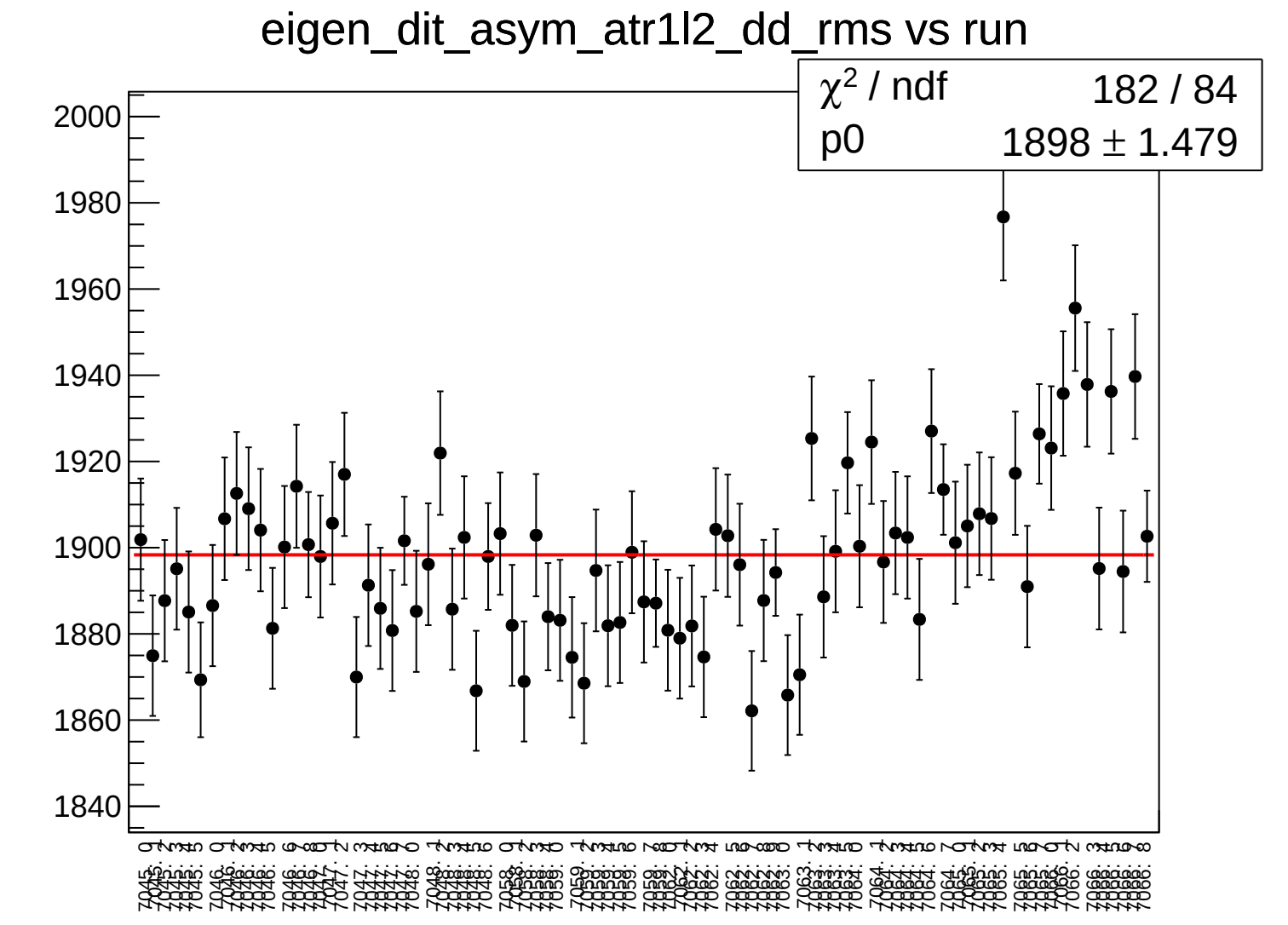

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 182 / 84
p0 1898 ± 1.479
2000
1980
1960
1940
1920
1900
1880
1860
1840

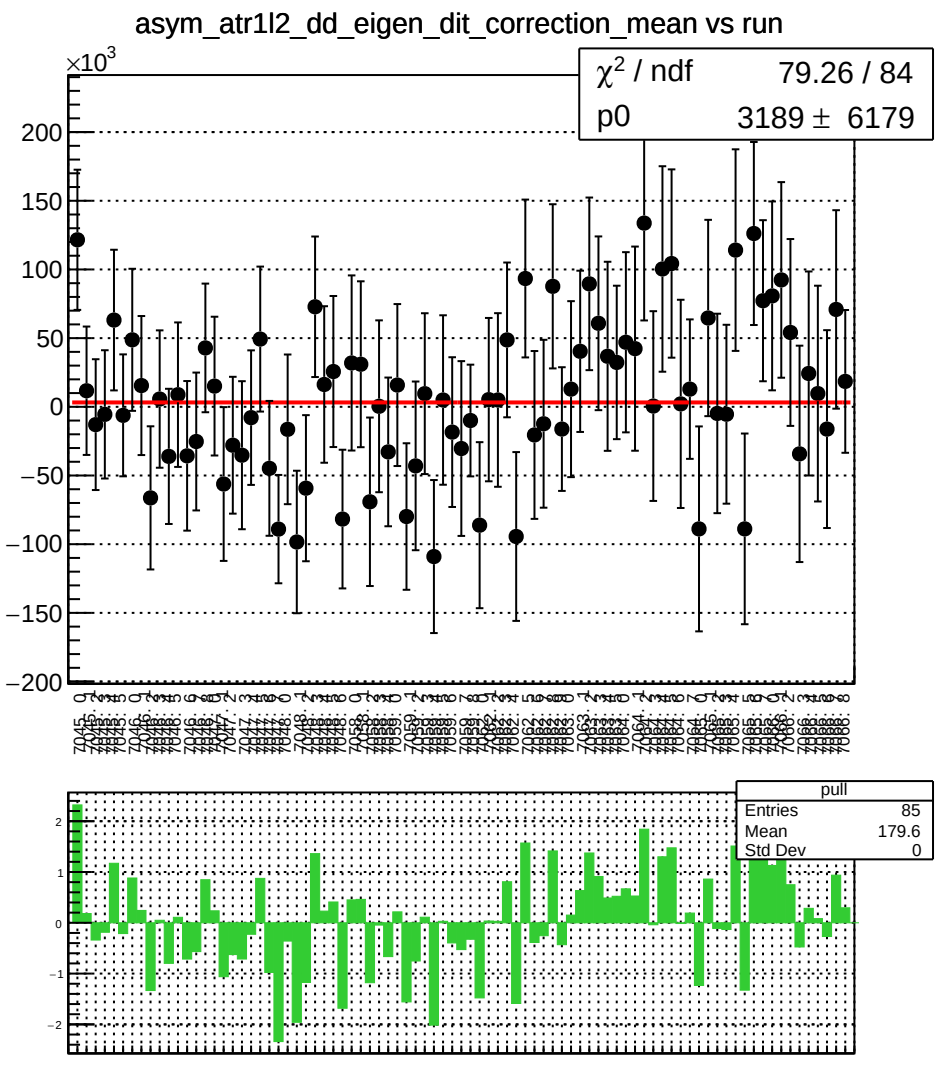

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.26 / 84
p0 3189 ± 6179
pull
Entries 85
Mean 179.6
Std Dev 0

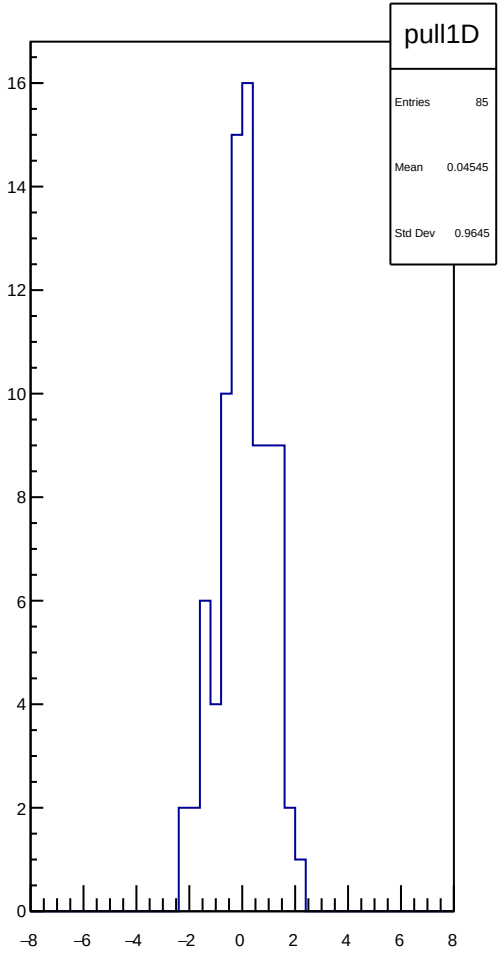

pull1D
Entries 85
Mean 0.04545
Std Dev 0.9645

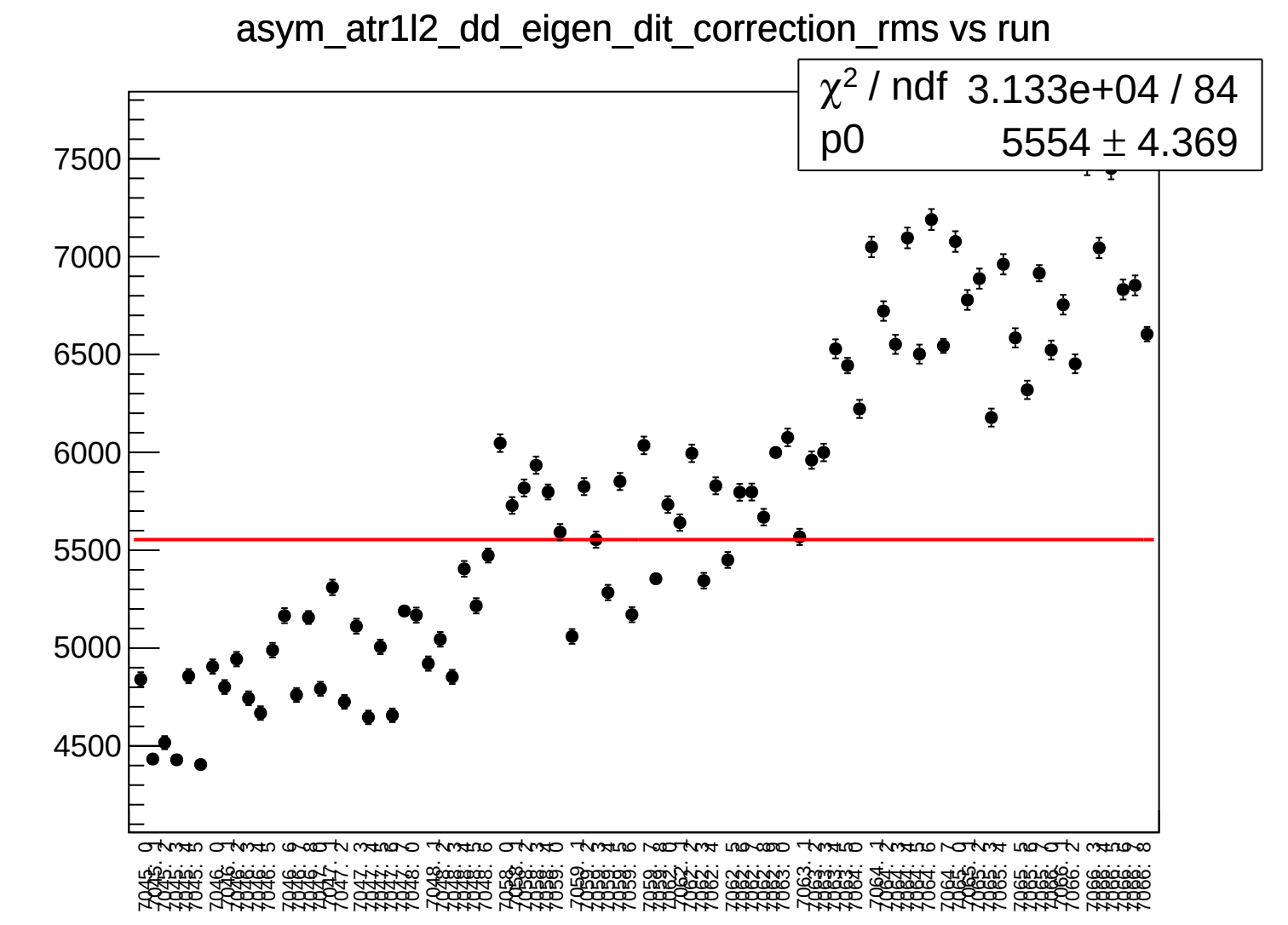

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3.133e+04 / 84
p0 5554 ± 4.369
7500
7000
6500
6000
5500
5000
4500

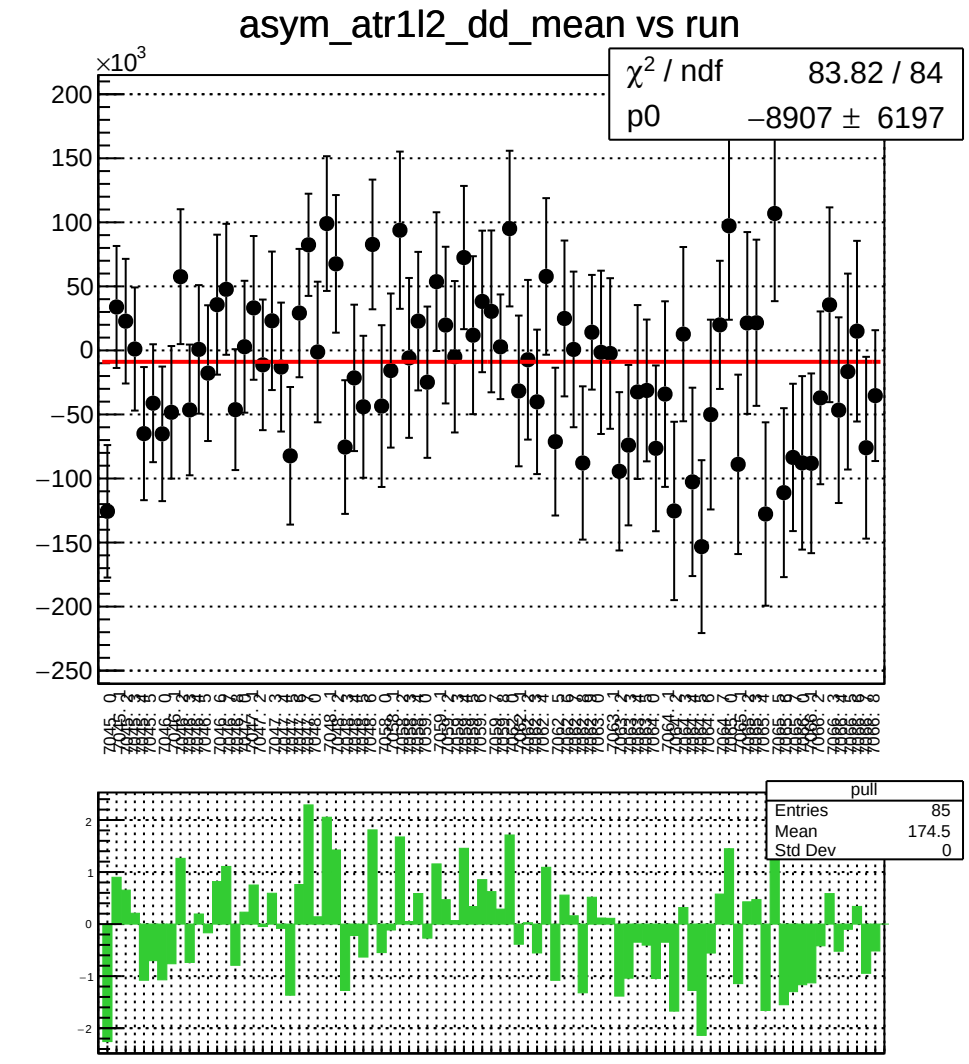

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 83.51 / 84
p0 −4628 ± 2092
pull
Entries 85
Mean −594.5
Std Dev 0
pull1D
Entries 85
Mean −0.005933
Std Dev 0.9912

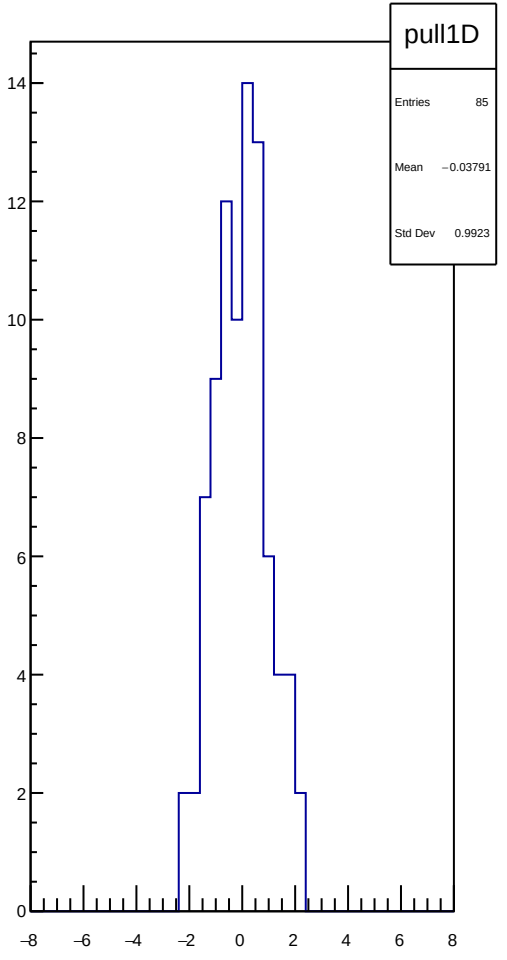

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 182 / 84
p0 1898 ± 1.479
2000
1980
1960
1940
1920
1900
1880
1860
1840

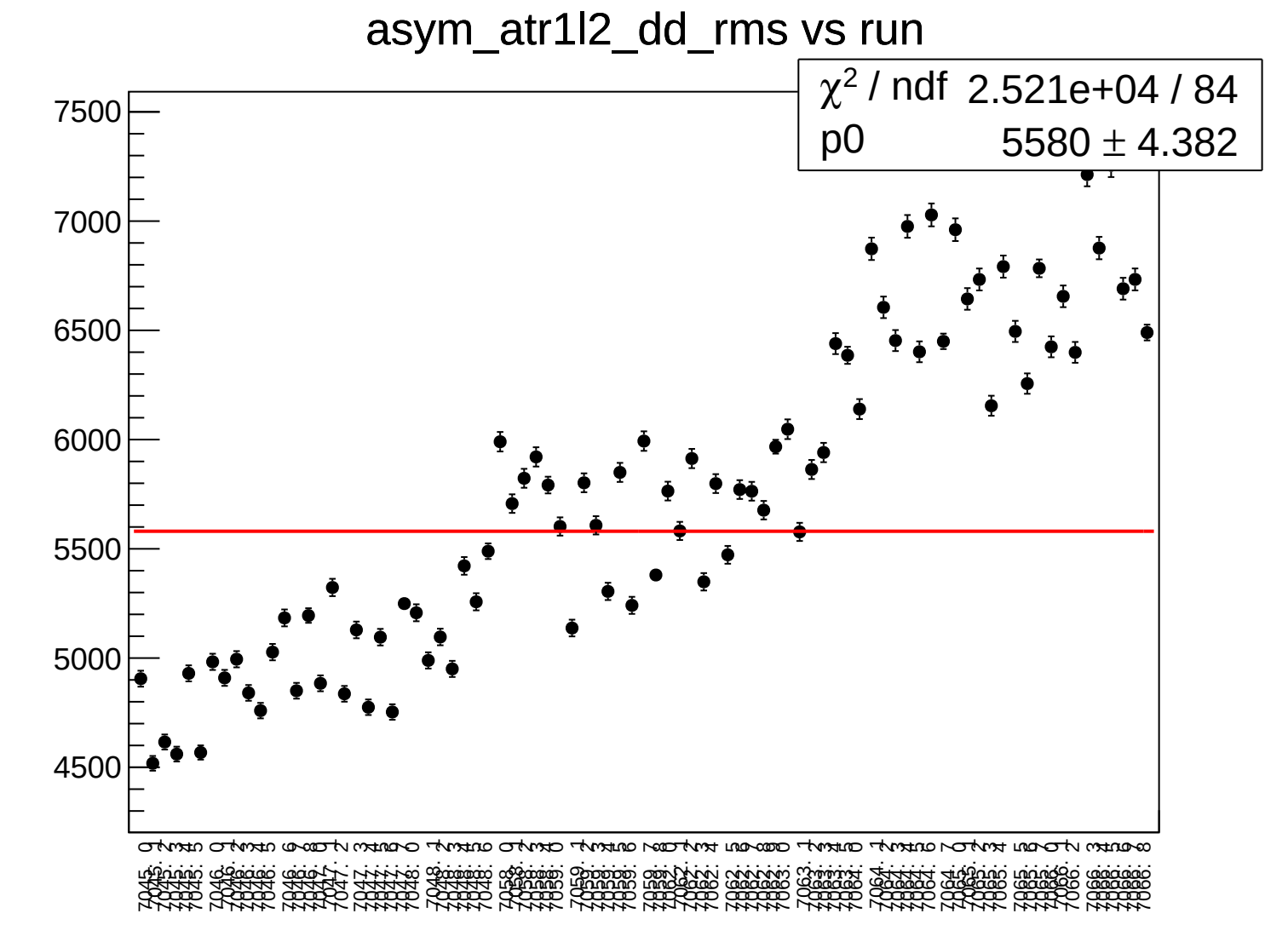

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.26 / 84
p0 3189 ± 6179
pull
Entries 85
Mean 179.6
Std Dev 0

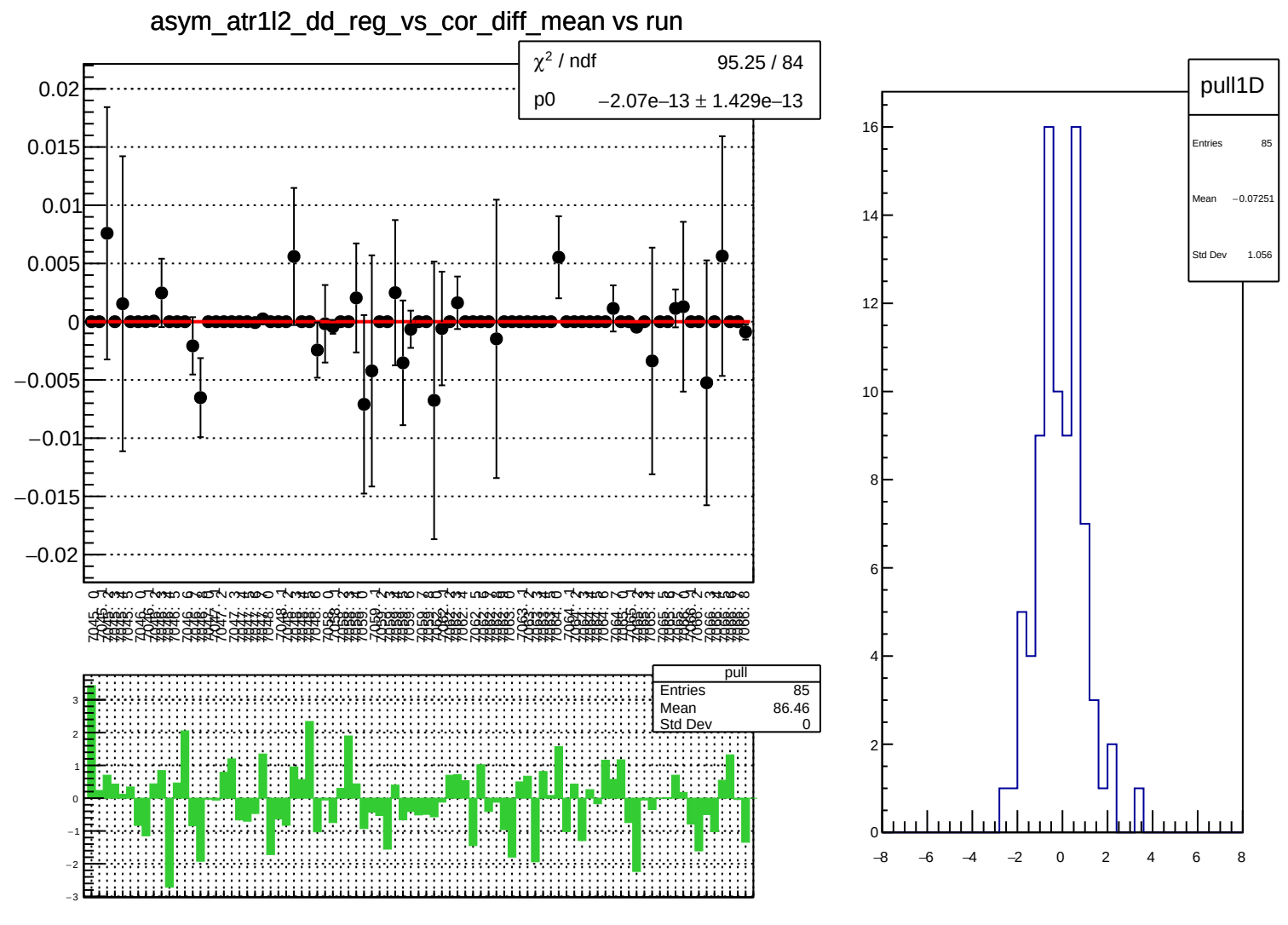

pull1D
Entries 85
Mean 0.04545
Std Dev 0.9645

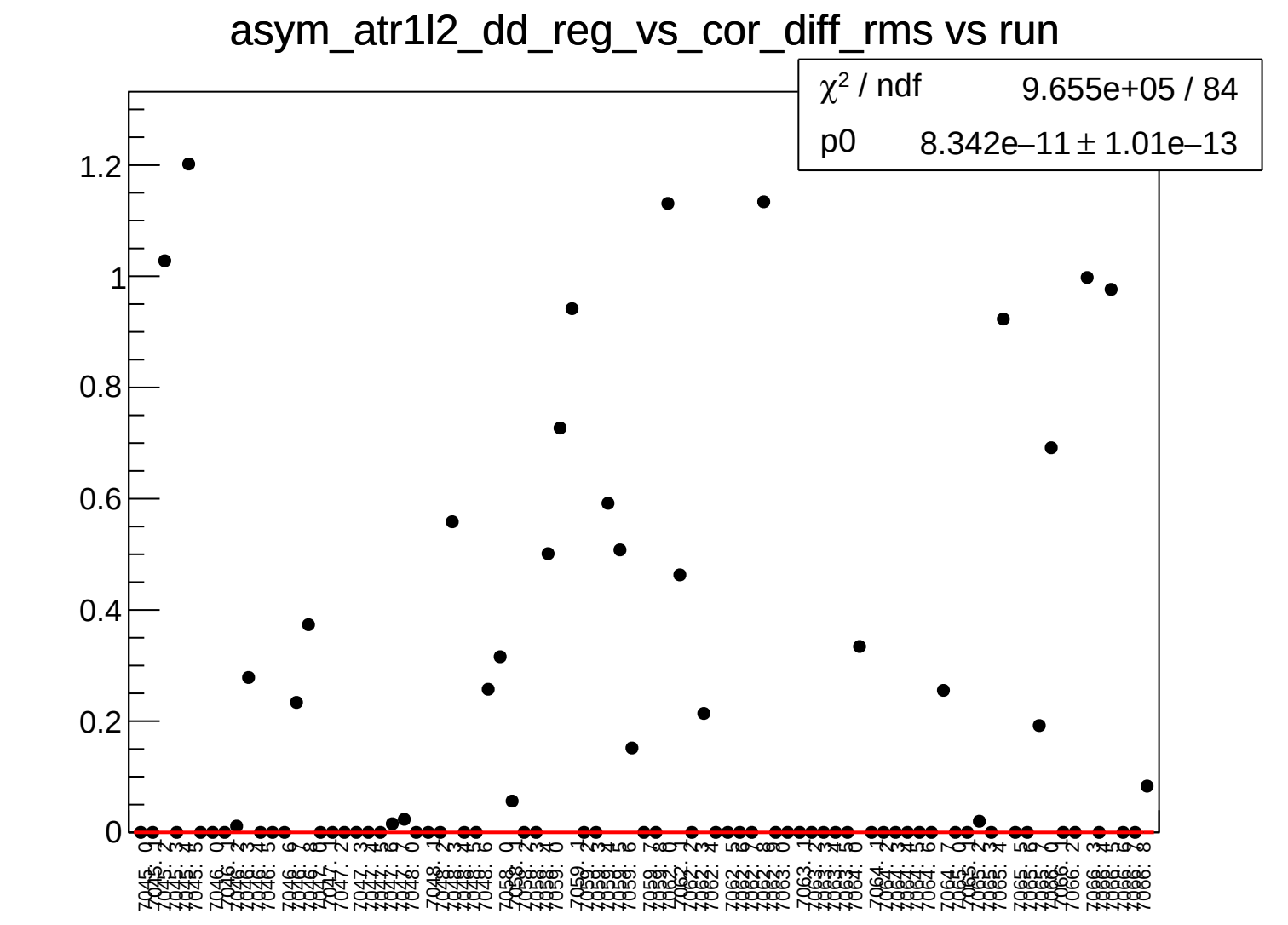

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.133e+04 / 84
p0 5554 ± 4.369
7500
7000
6500
6000
5500
5000
4500

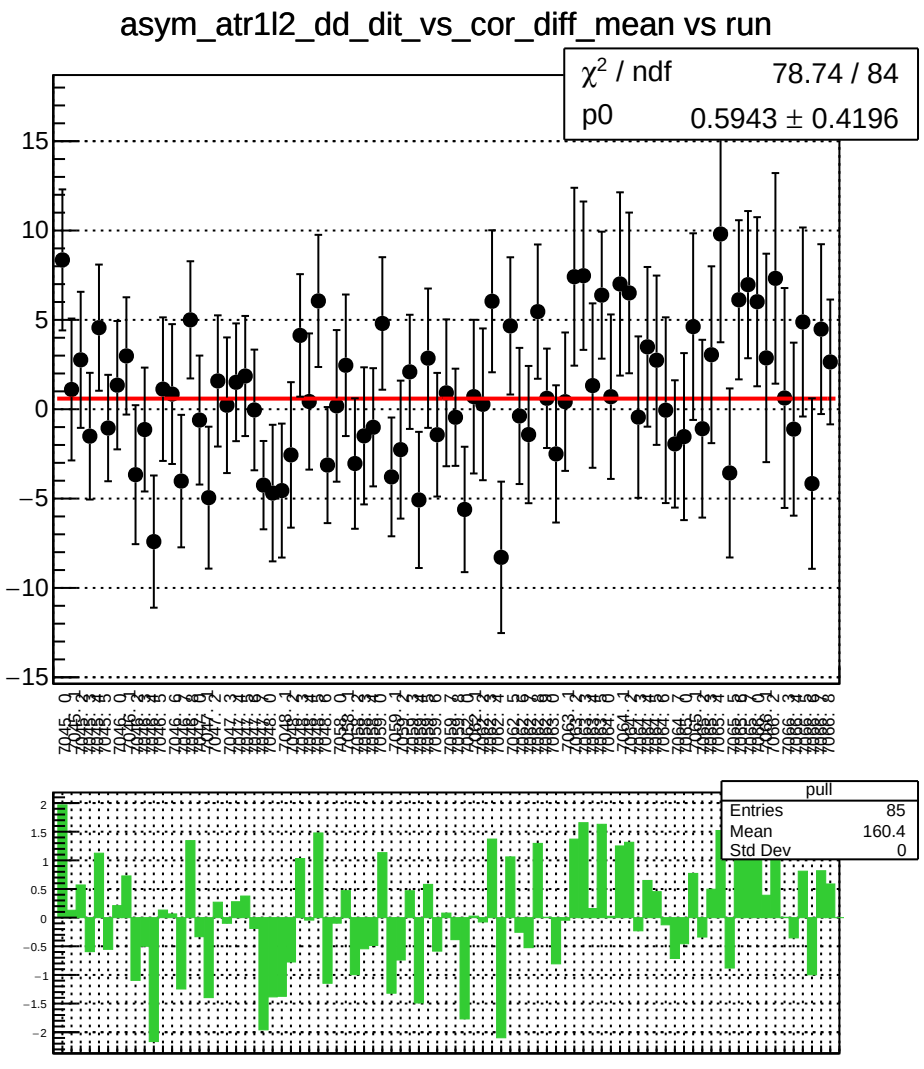

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 83.82 / 84
p0 −8907 ± 6197
pull
Entries 85
Mean 174.5
Std Dev 0

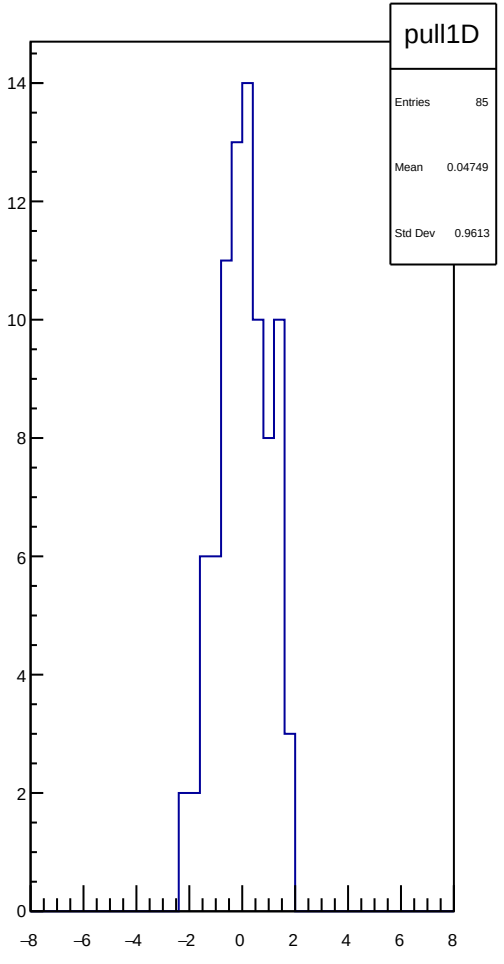

pull1D
Entries 85
Mean −0.03791
Std Dev 0.9923

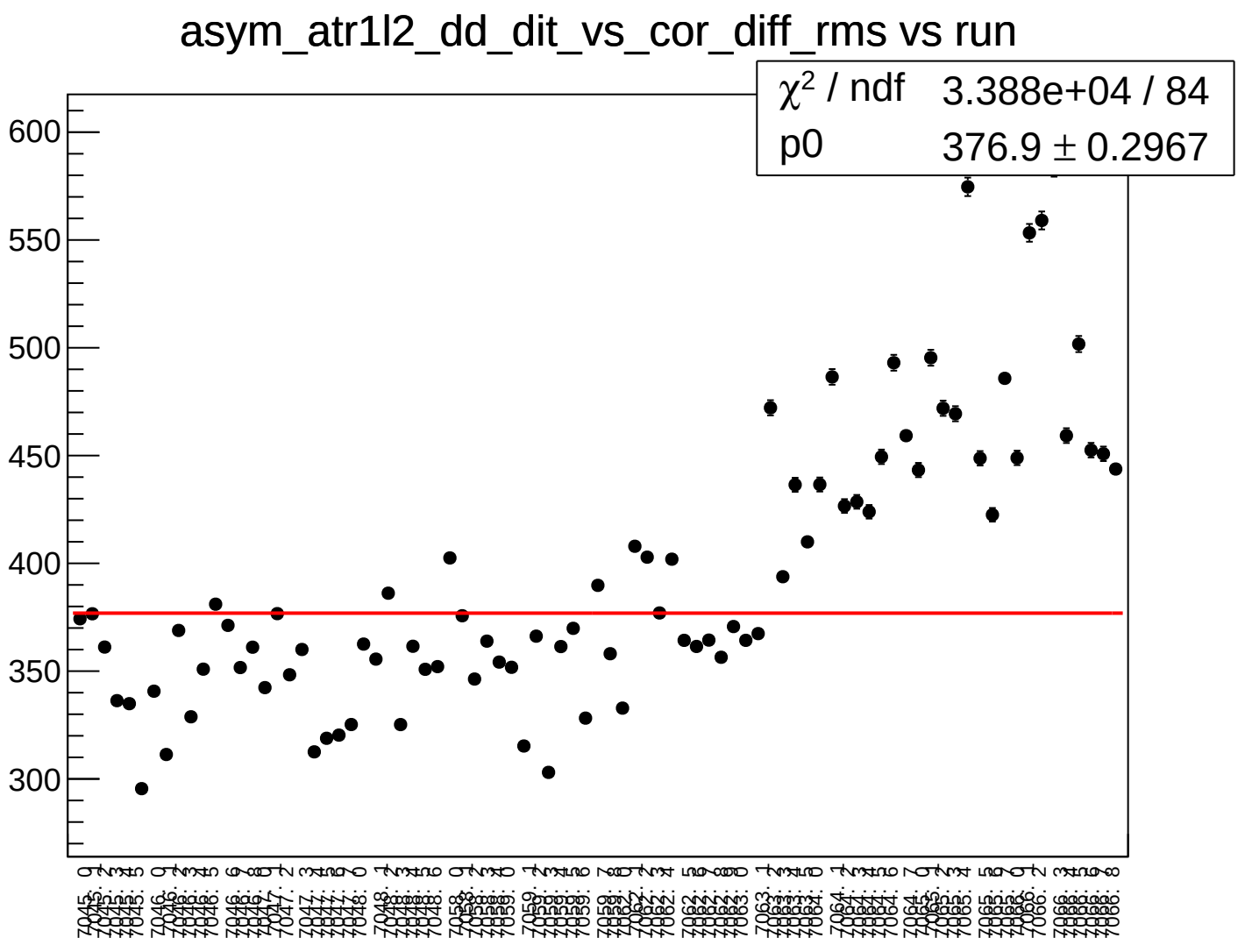

asym_atr1l2_dd_rms vs run
χ² / ndf 2.521e+04 / 84
p0 5580 ± 4.382
7500
7000
6500
6000
5500
5000
4500

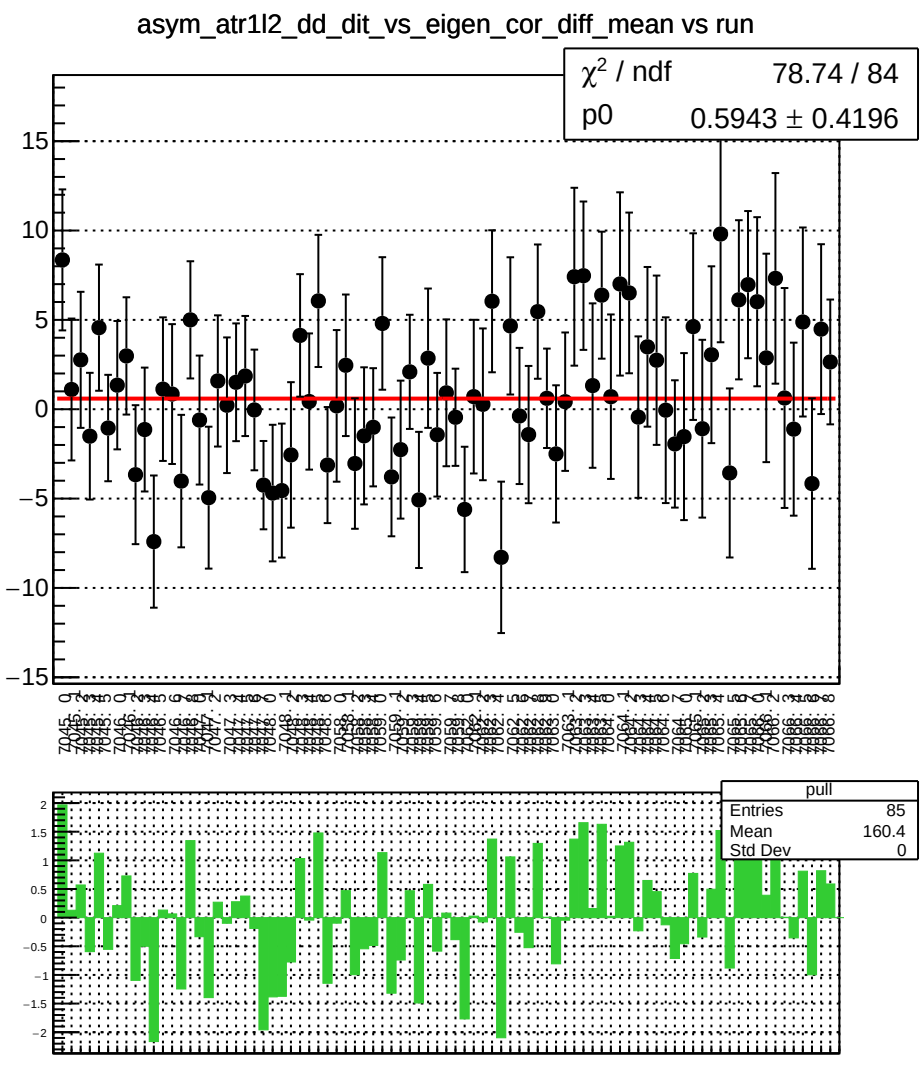

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.25 / 84
p0 −2.07e−13 ± 1.429e−13
pull
Entries 85
Mean 86.46
Std Dev 0
pull1D
Entries 85
Mean −0.07251
Std Dev 1.056

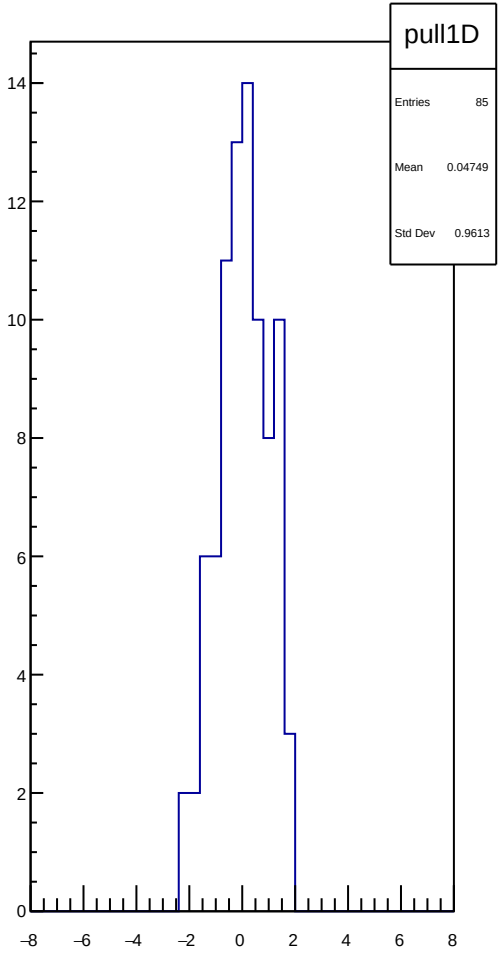

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.655e+05 / 84
p0 8.342e−11 ± 1.01e−13
1.2
1
0.8
0.6
0.4
0.2
0

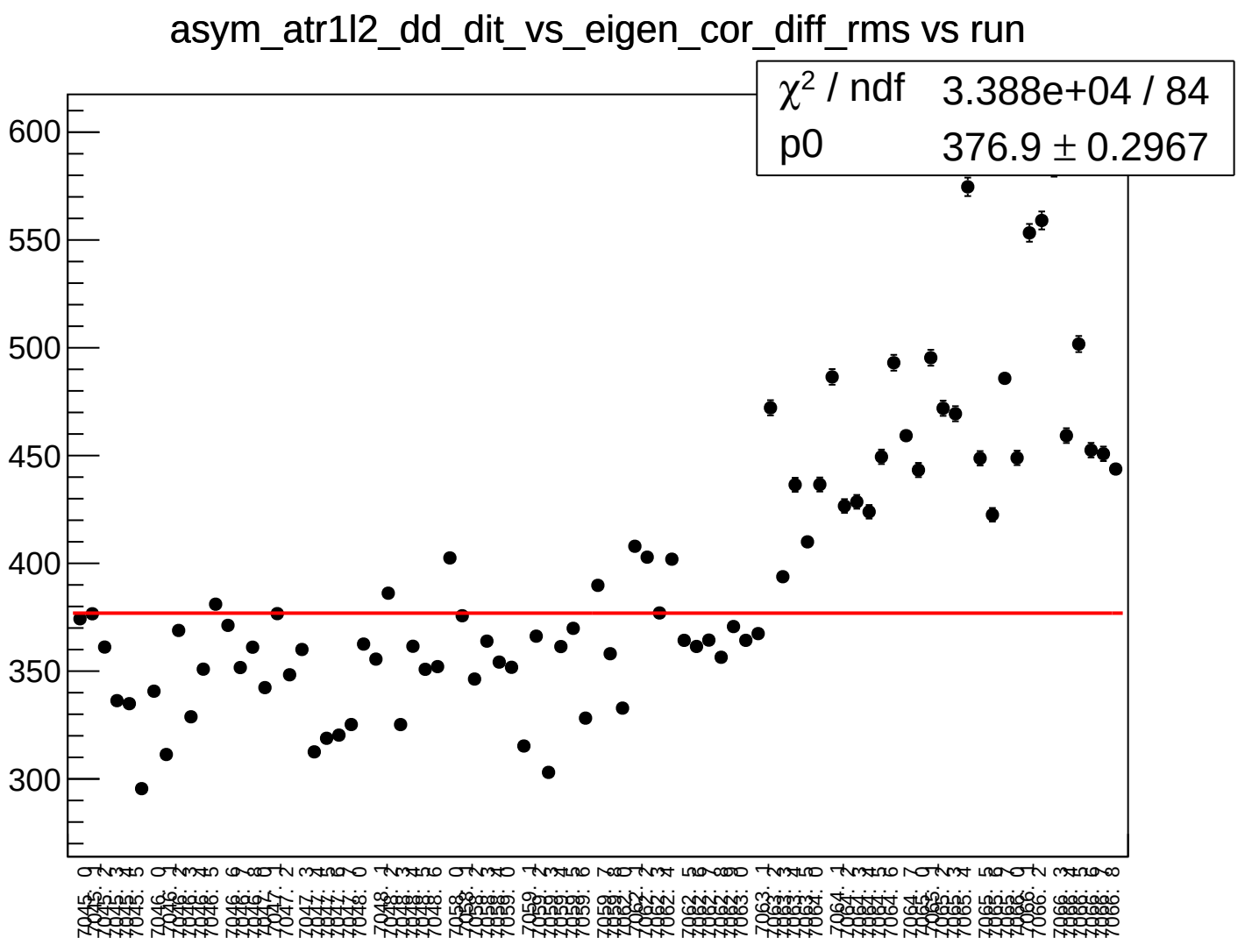

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.74 / 84
p0 0.5943 ± 0.4196
pull
Entries 85
Mean 160.4
Std Dev 0

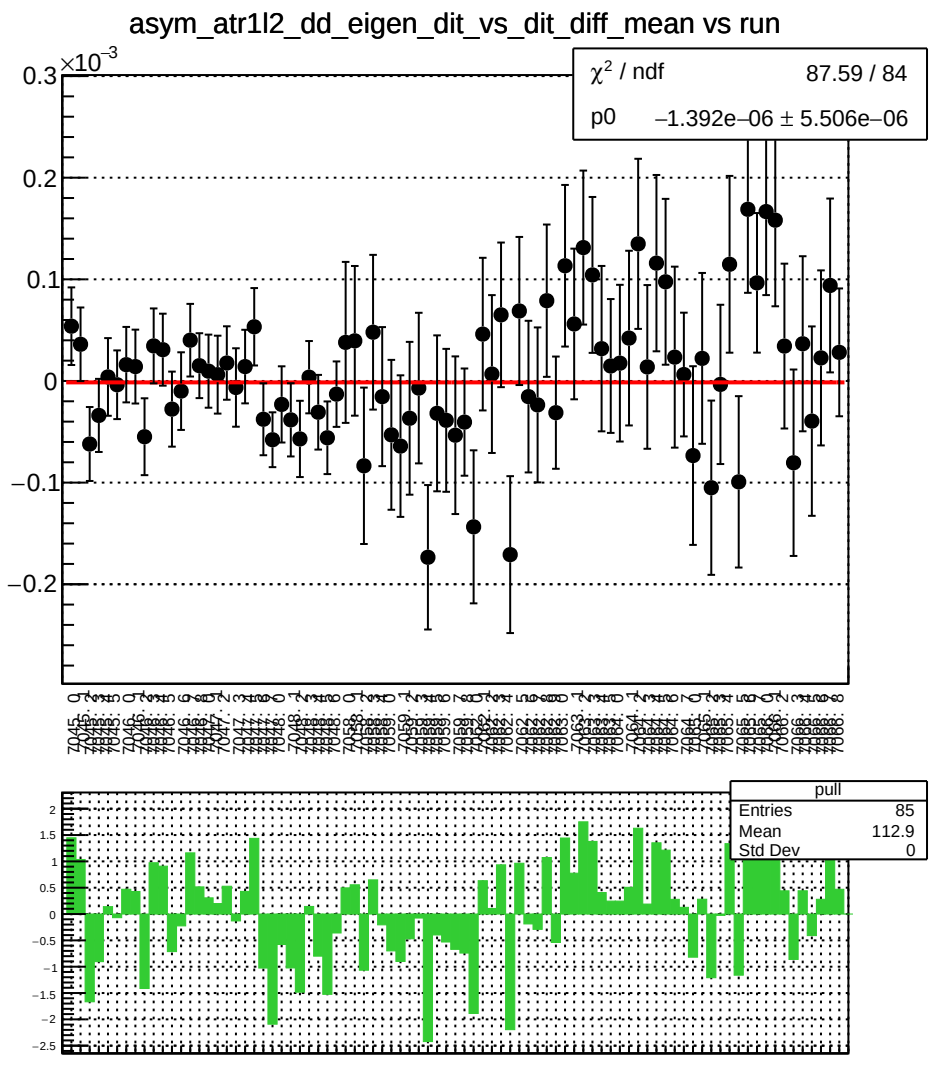

pull1D
Entries 85
Mean 0.04749
Std Dev 0.9613

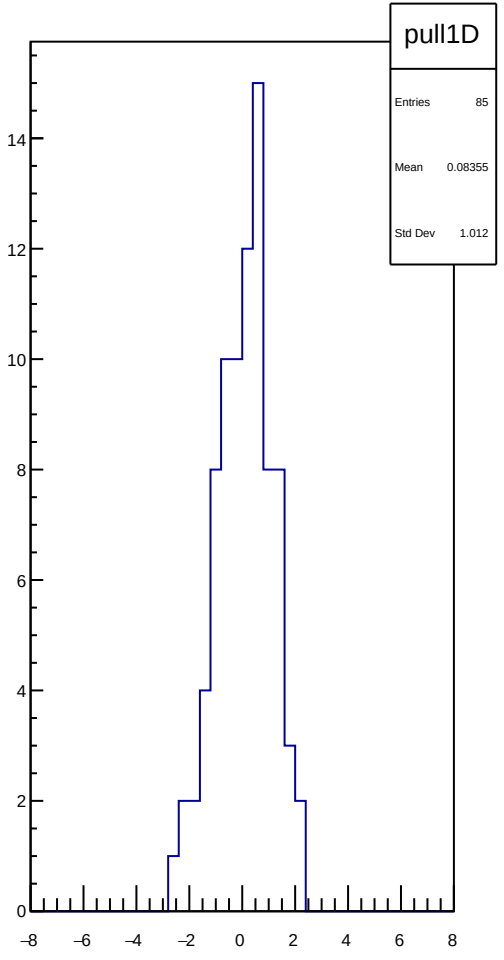

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.388e+04 / 84
p0 376.9 ± 0.2967
600
550
500
450
400
350
300

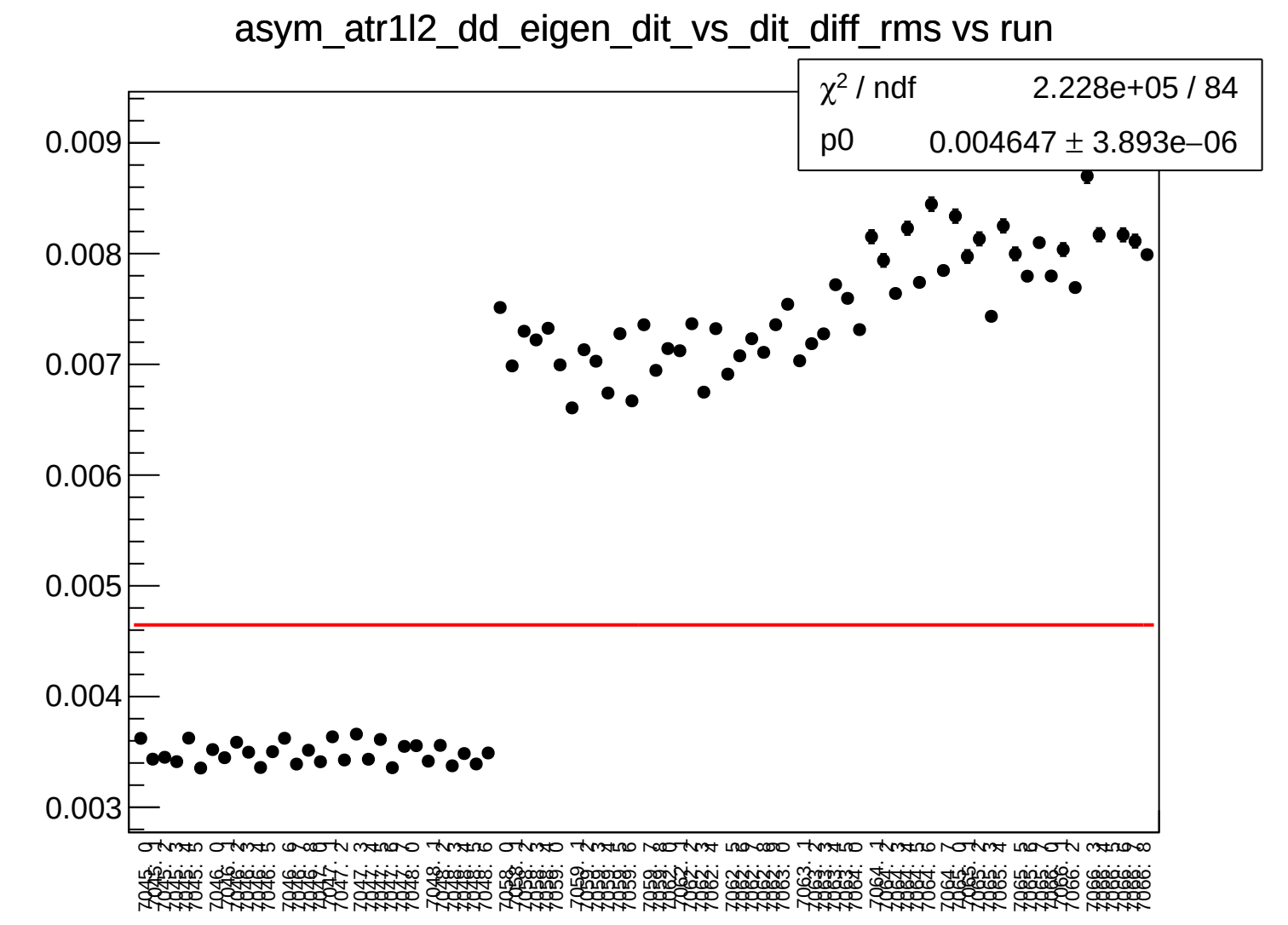

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.74 / 84
p0 0.5943 ± 0.4196
pull
Entries 85
Mean 160.4
Std Dev 0

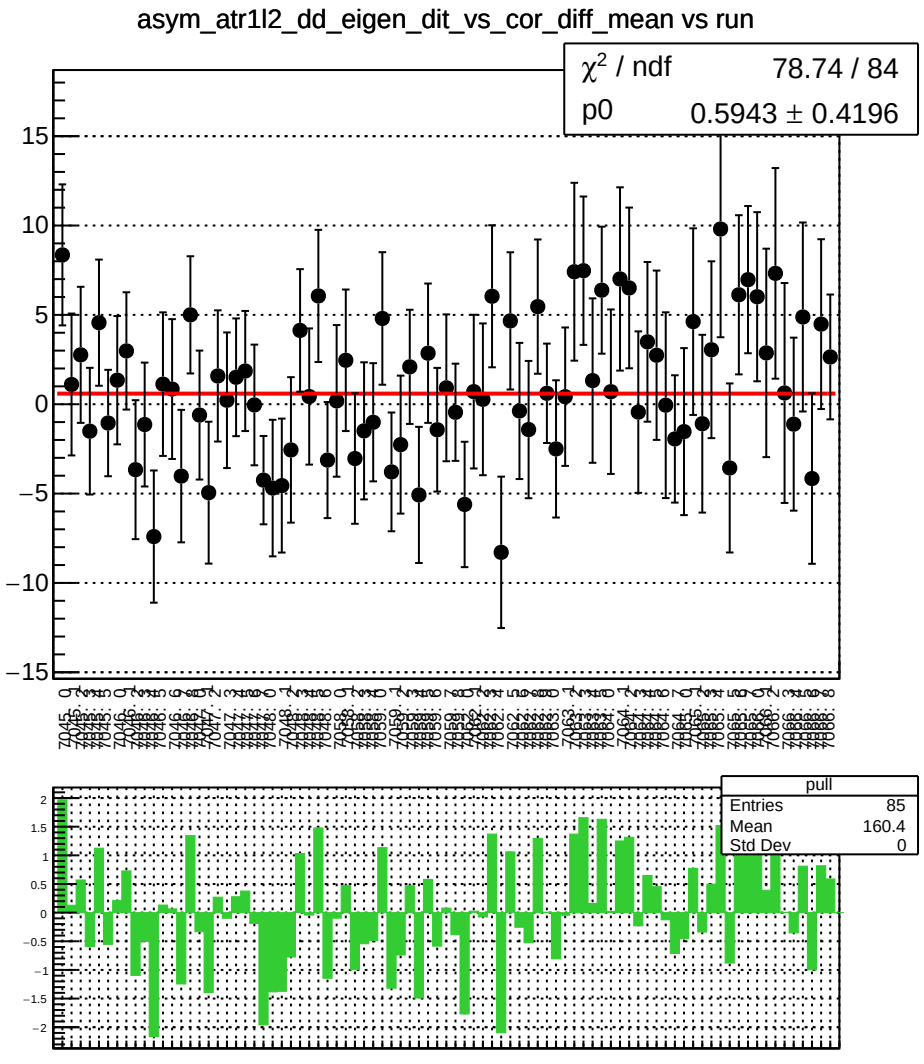

pull1D
Entries 85
Mean 0.04749
Std Dev 0.9613

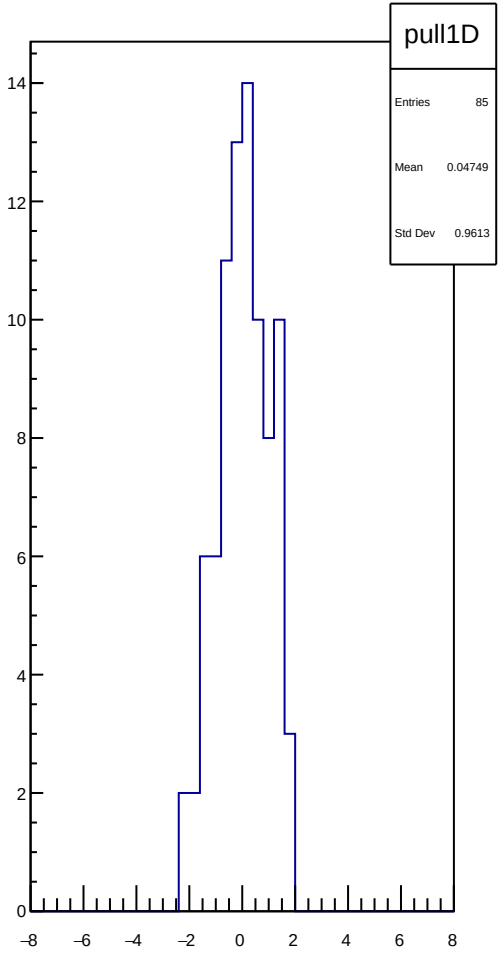

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.388e+04 / 84
p0 376.9 ± 0.2967
600
550
500
450
400
350
300

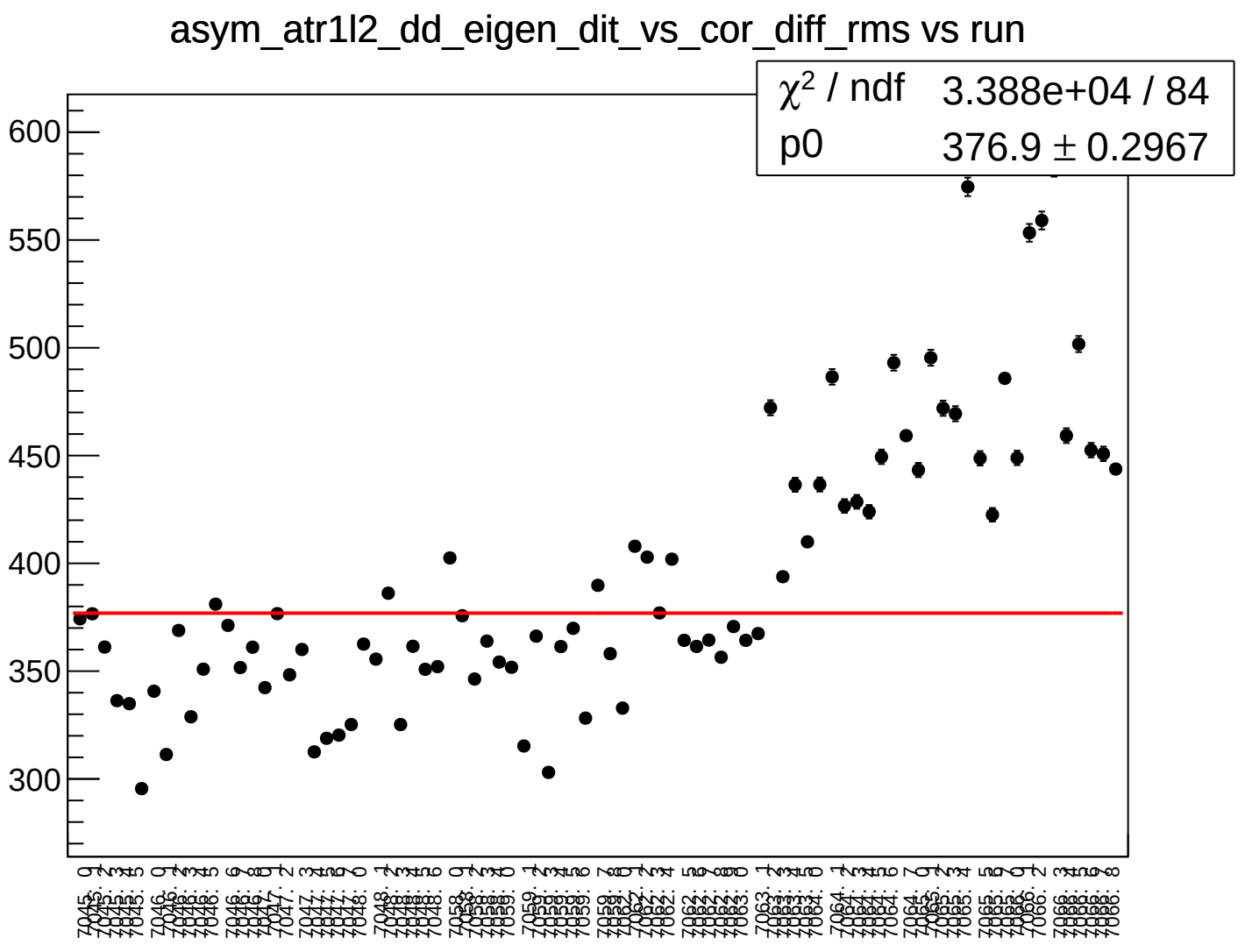

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.59 / 84
p0 −1.392e−06 ± 5.506e−06
×10⁻³
pull
Entries 85
Mean 112.9
Std Dev 0

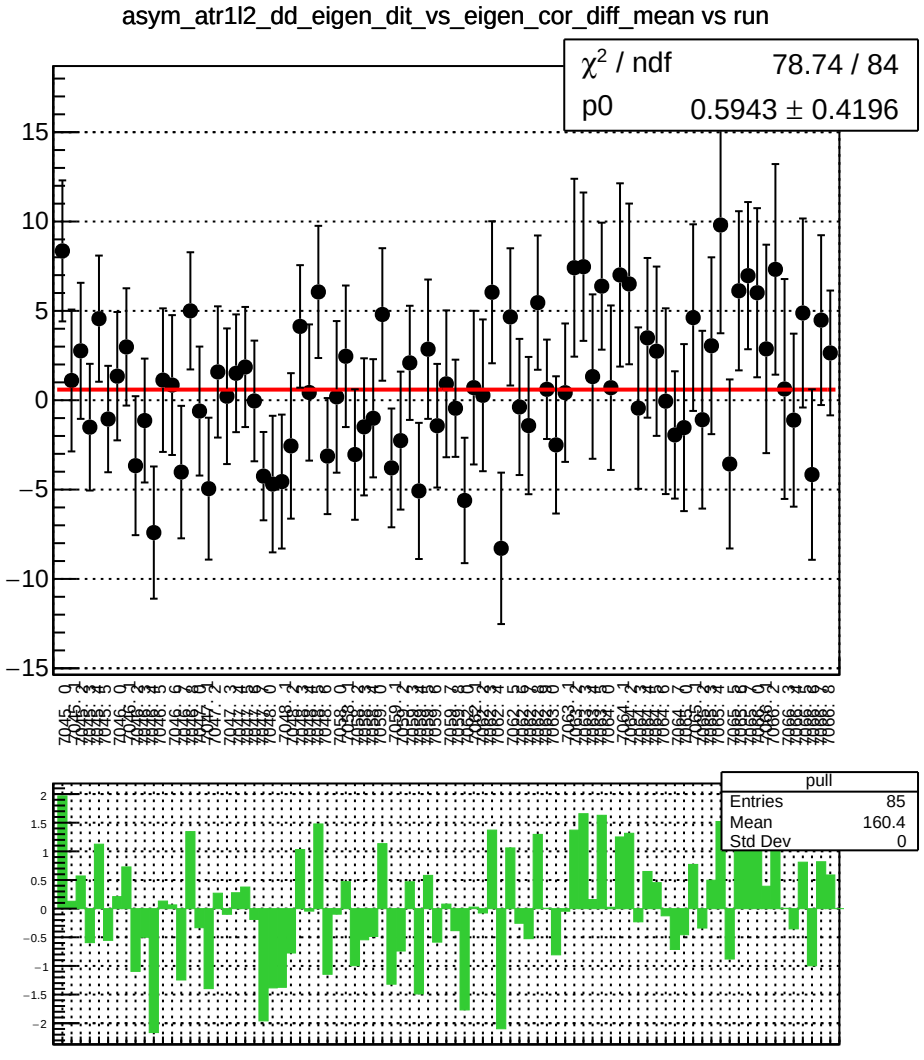

pull1D
Entries 85
Mean 0.08355
Std Dev 1.012

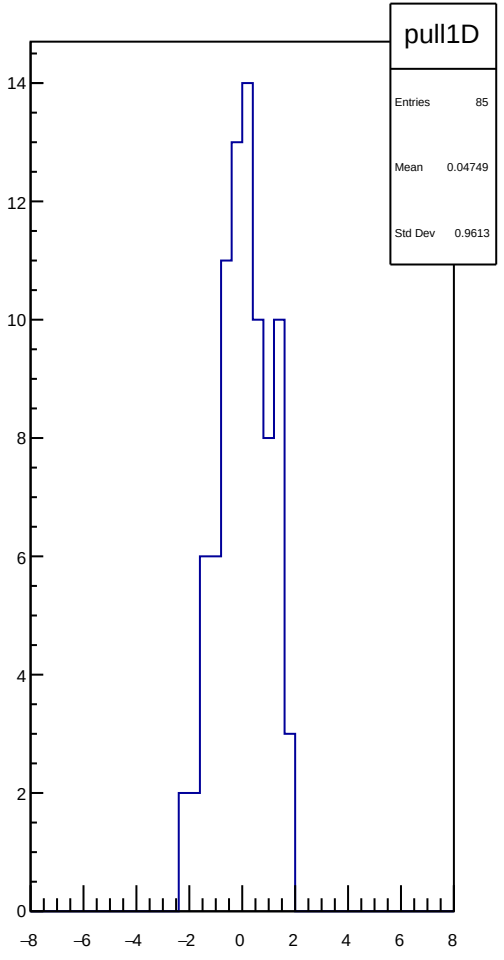

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.228e+05 / 84
p0 0.004647 ± 3.893e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

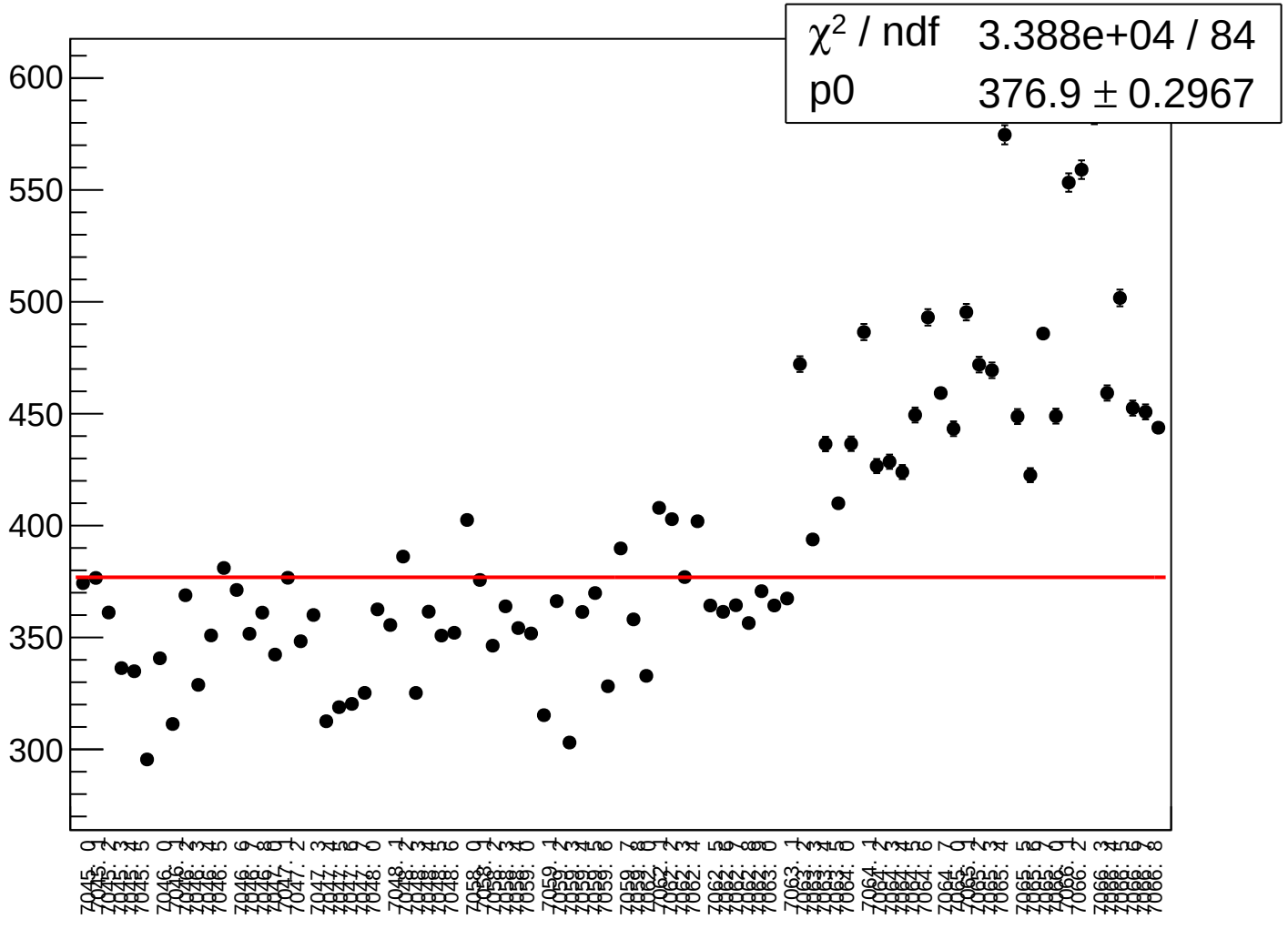

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.74 / 84
p0 0.5943 ± 0.4196
pull
Entries 85
Mean 160.4
Std Dev 0

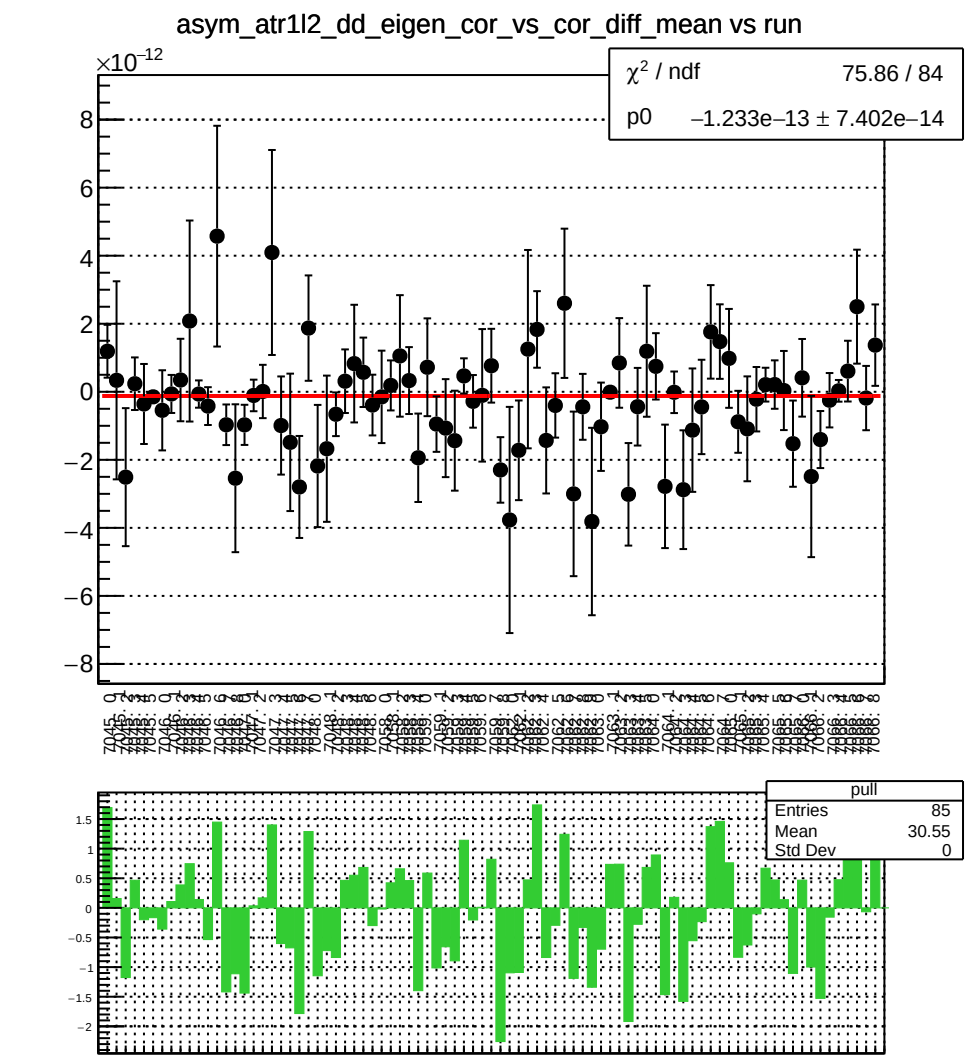

pull1D
Entries 85
Mean 0.04749
Std Dev 0.9613

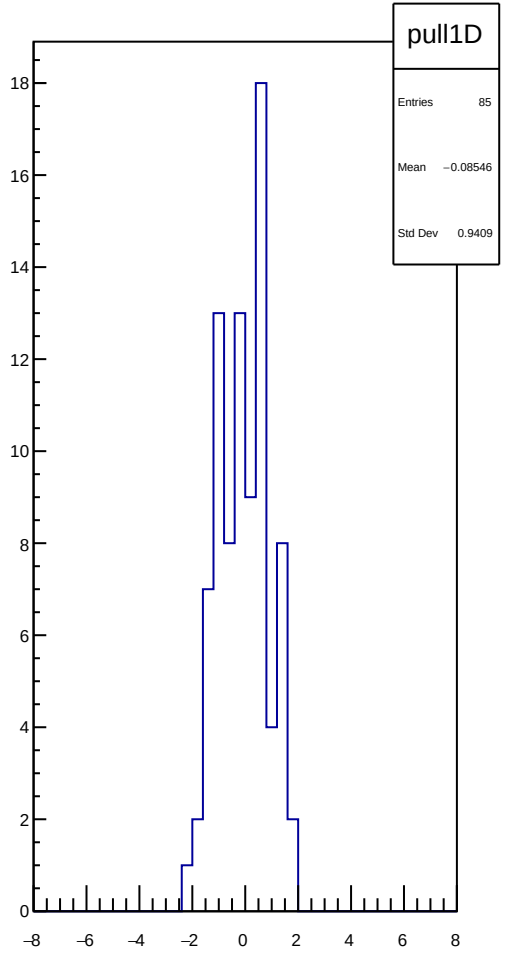

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.388e+04 / 84
p0 376.9 ± 0.2967
600
550
500
450
400
350
300

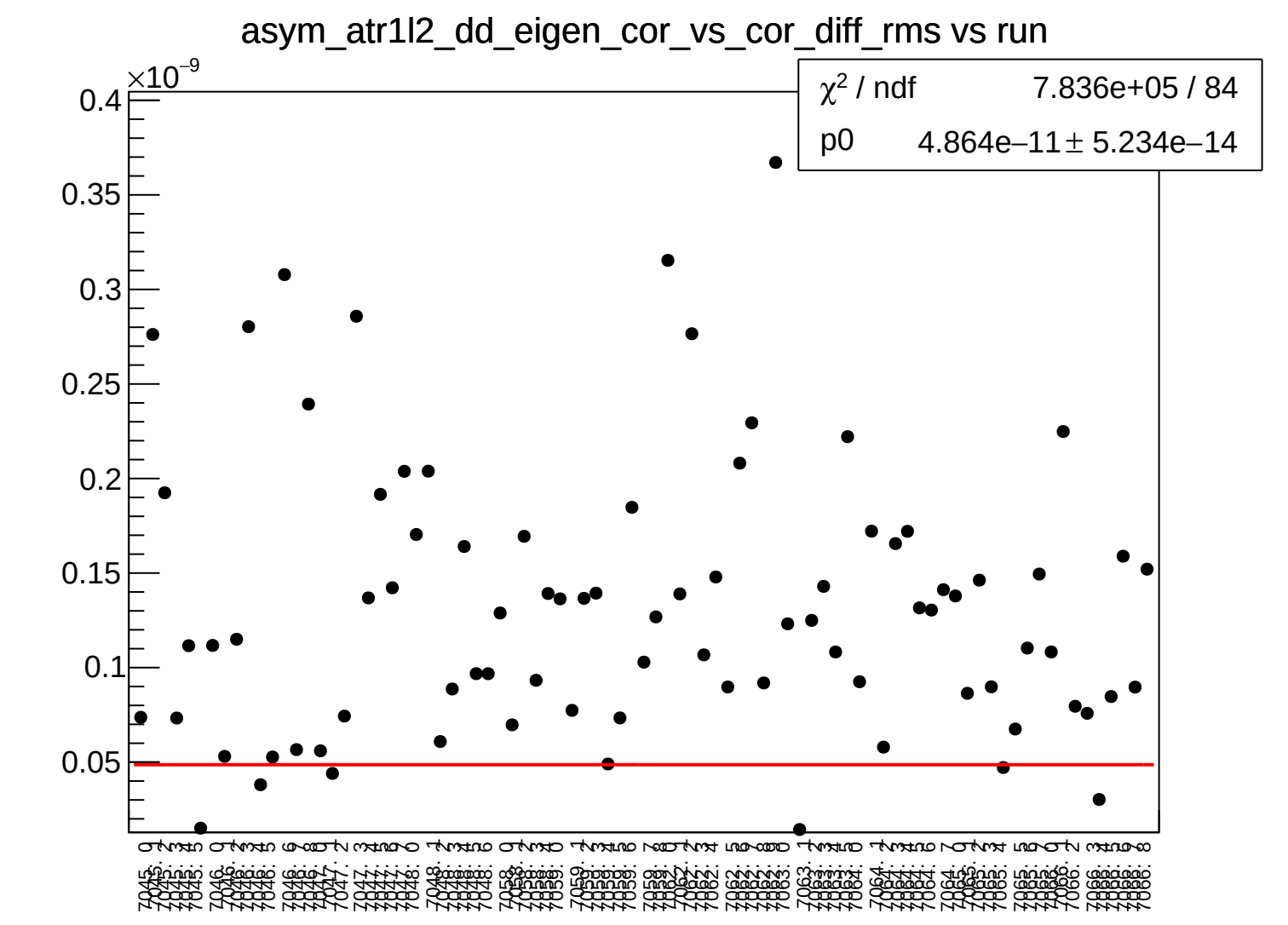

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.74 / 84
p0 0.5943 ± 0.4196
pull
Entries 85
Mean 160.4
Std Dev 0

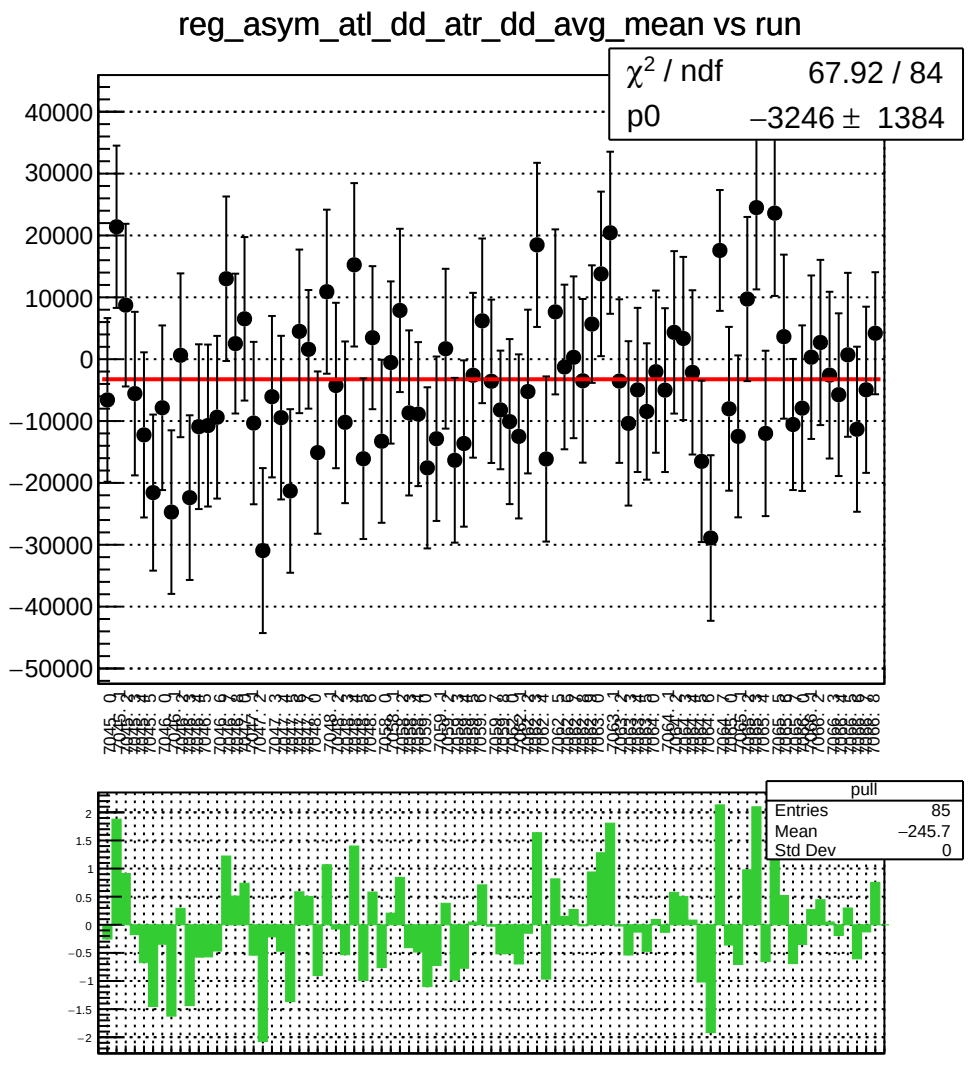

pull1D
Entries 85
Mean 0.04749
Std Dev 0.9613

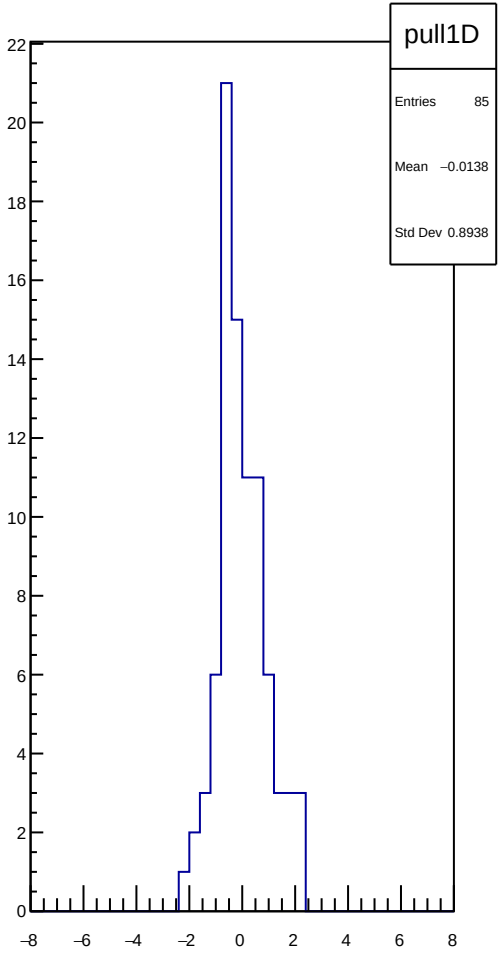

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.388e+04 / 84
p0 376.9 ± 0.2967
600
550
500
450
400
350
300

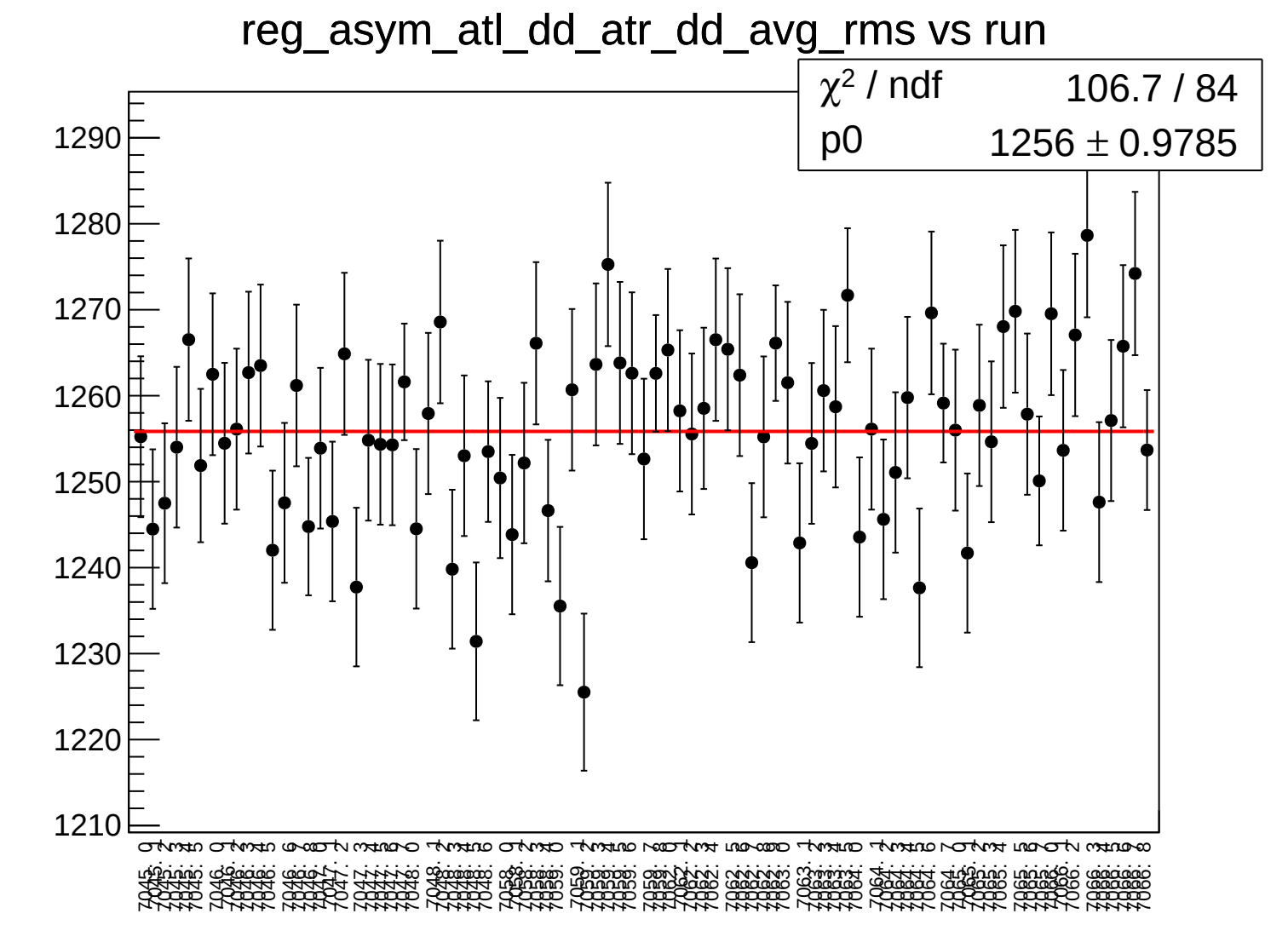

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.86 / 84
p0 −1.233e−13 ± 7.402e−14
pull
Entries 85
Mean 30.55
Std Dev 0

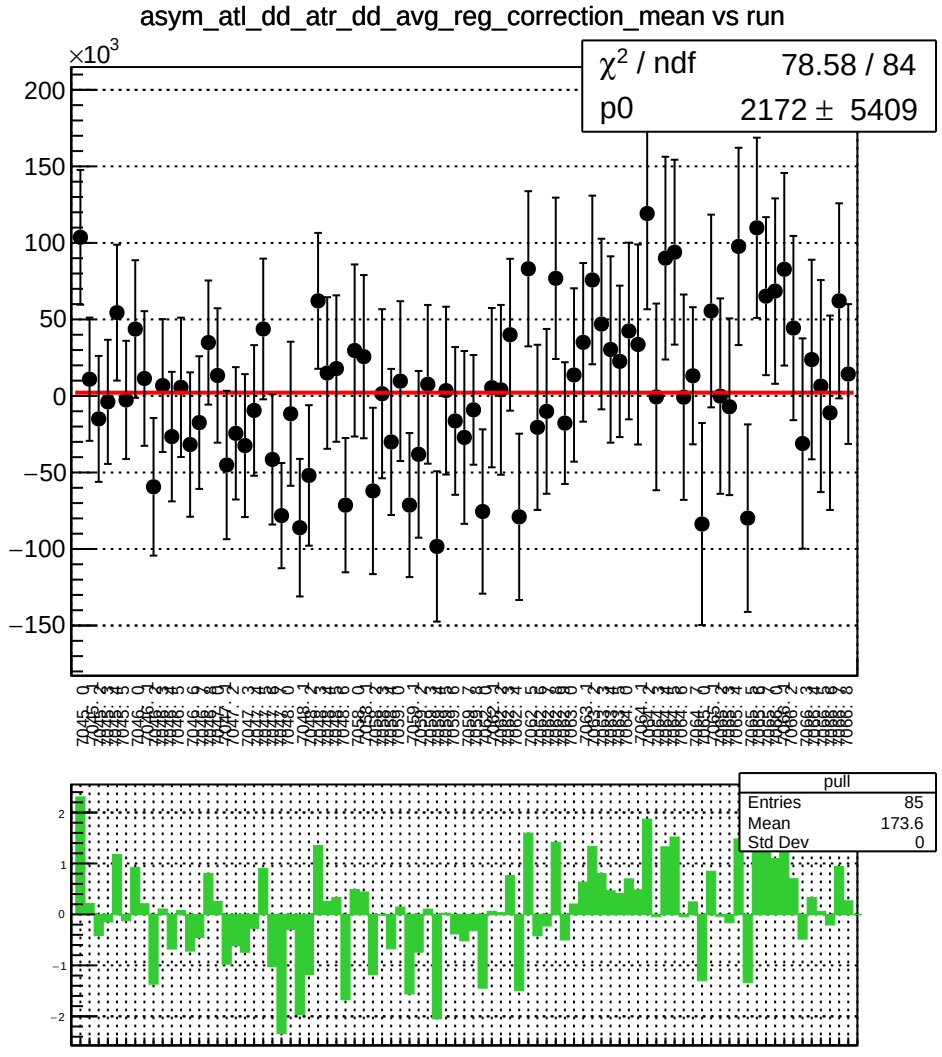

pull1D
Entries 85
Mean −0.08546
Std Dev 0.9409

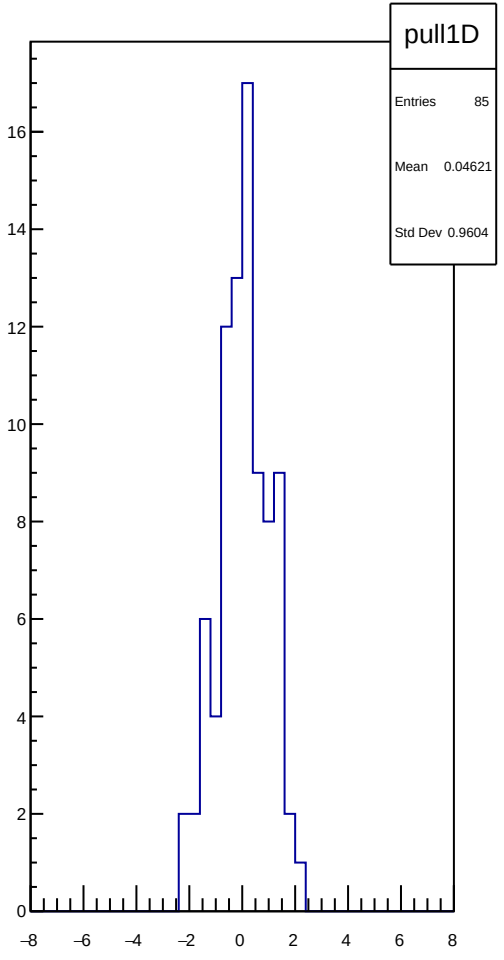

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.836e+05 / 84
p0 4.864e−11 ± 5.234e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

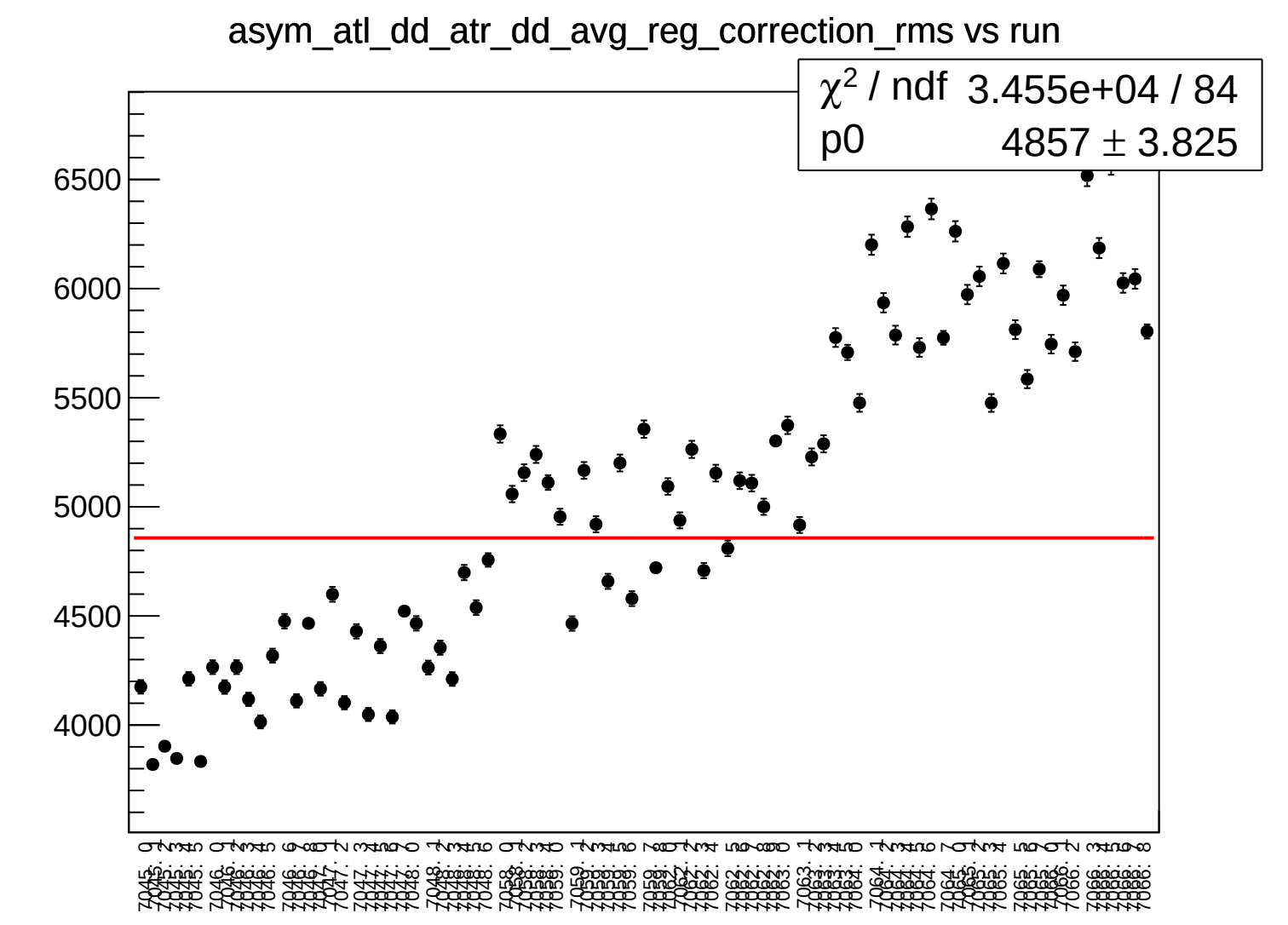

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.7
Std Dev 0

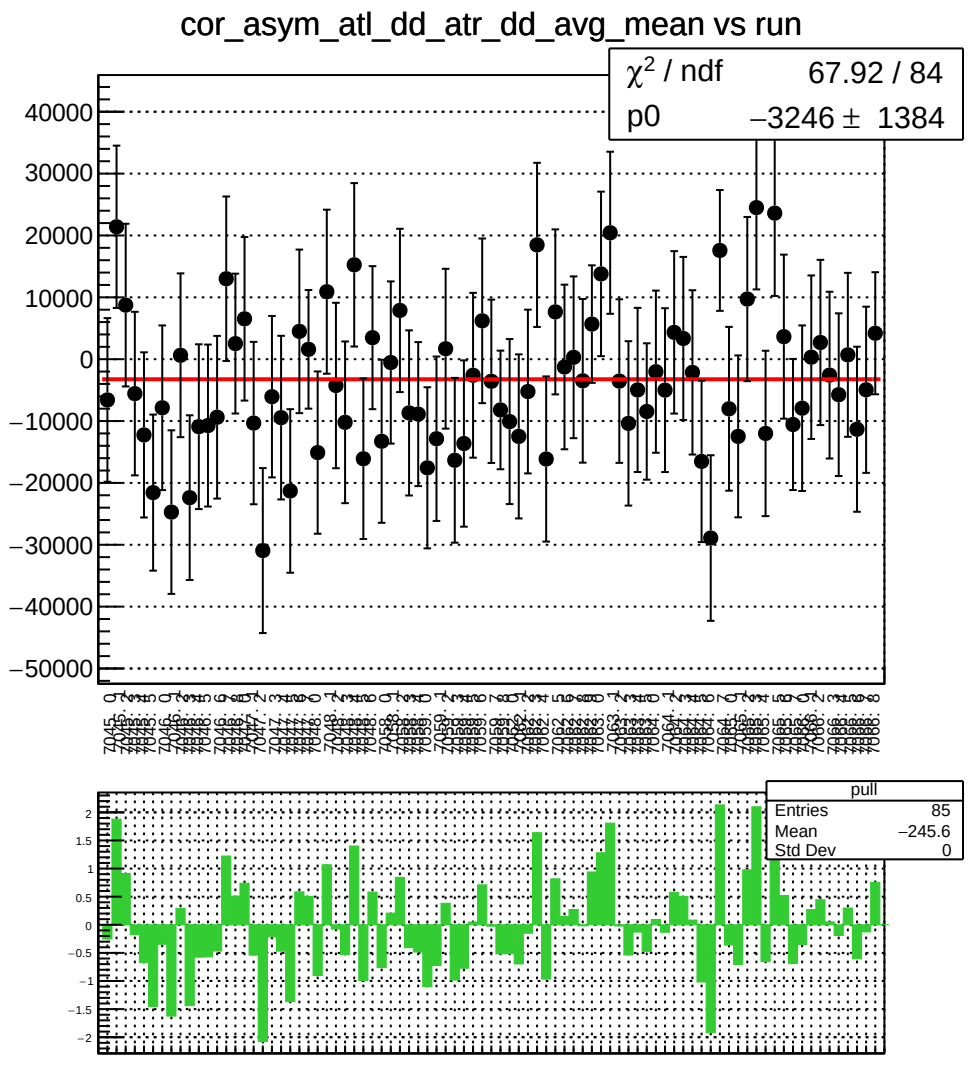

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

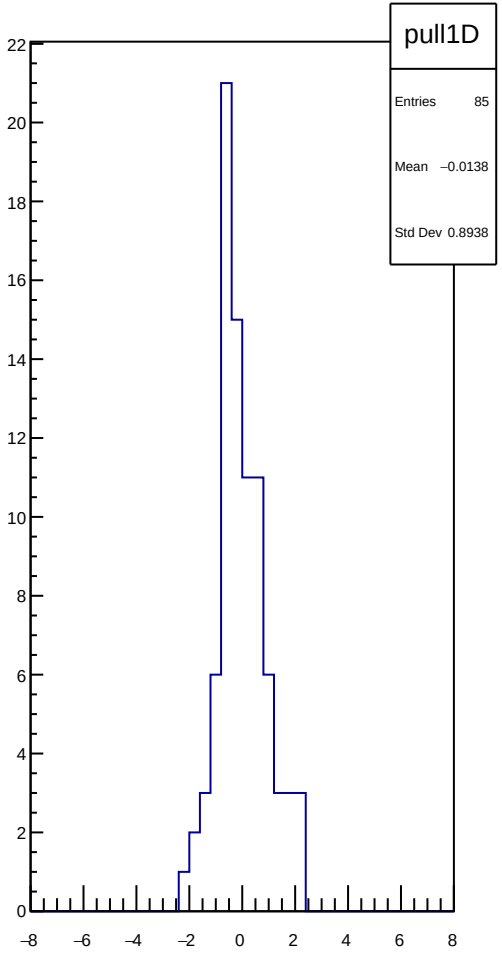

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

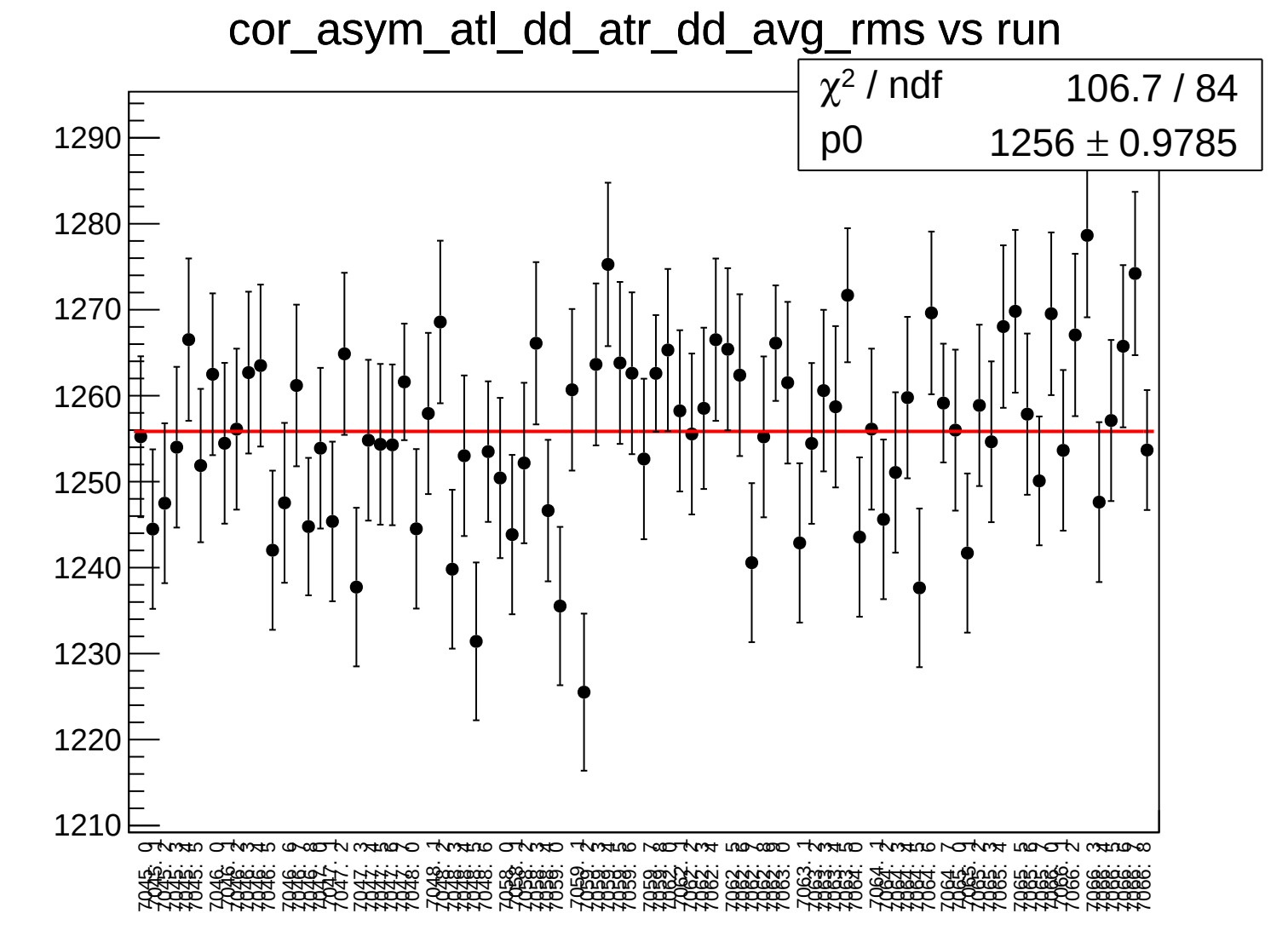

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

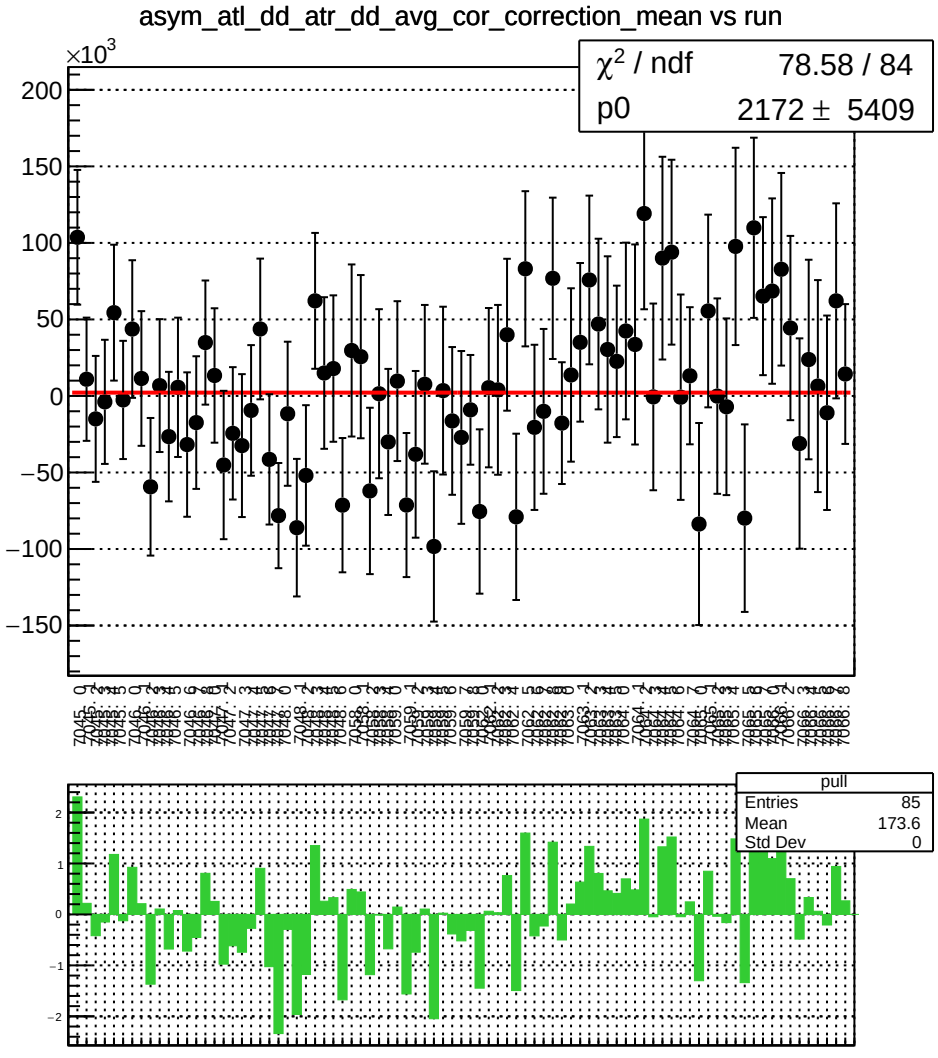

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

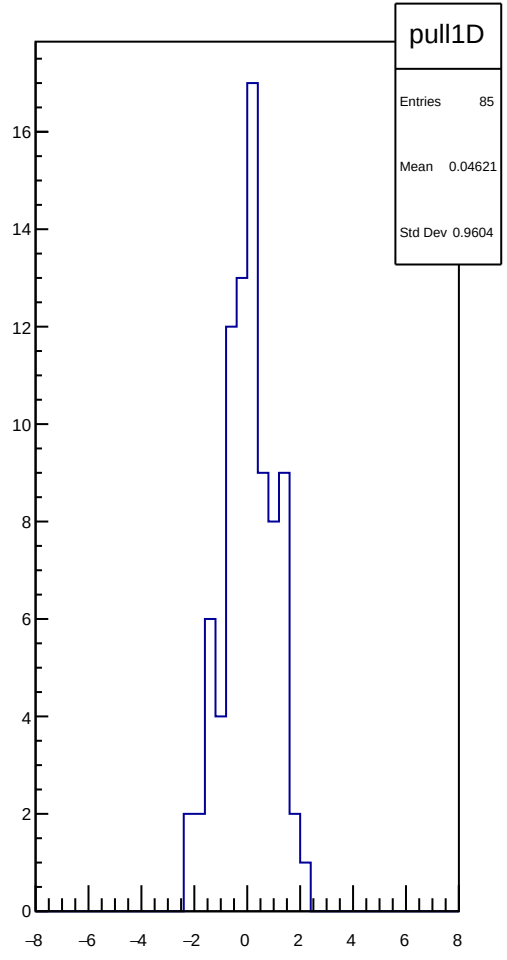

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

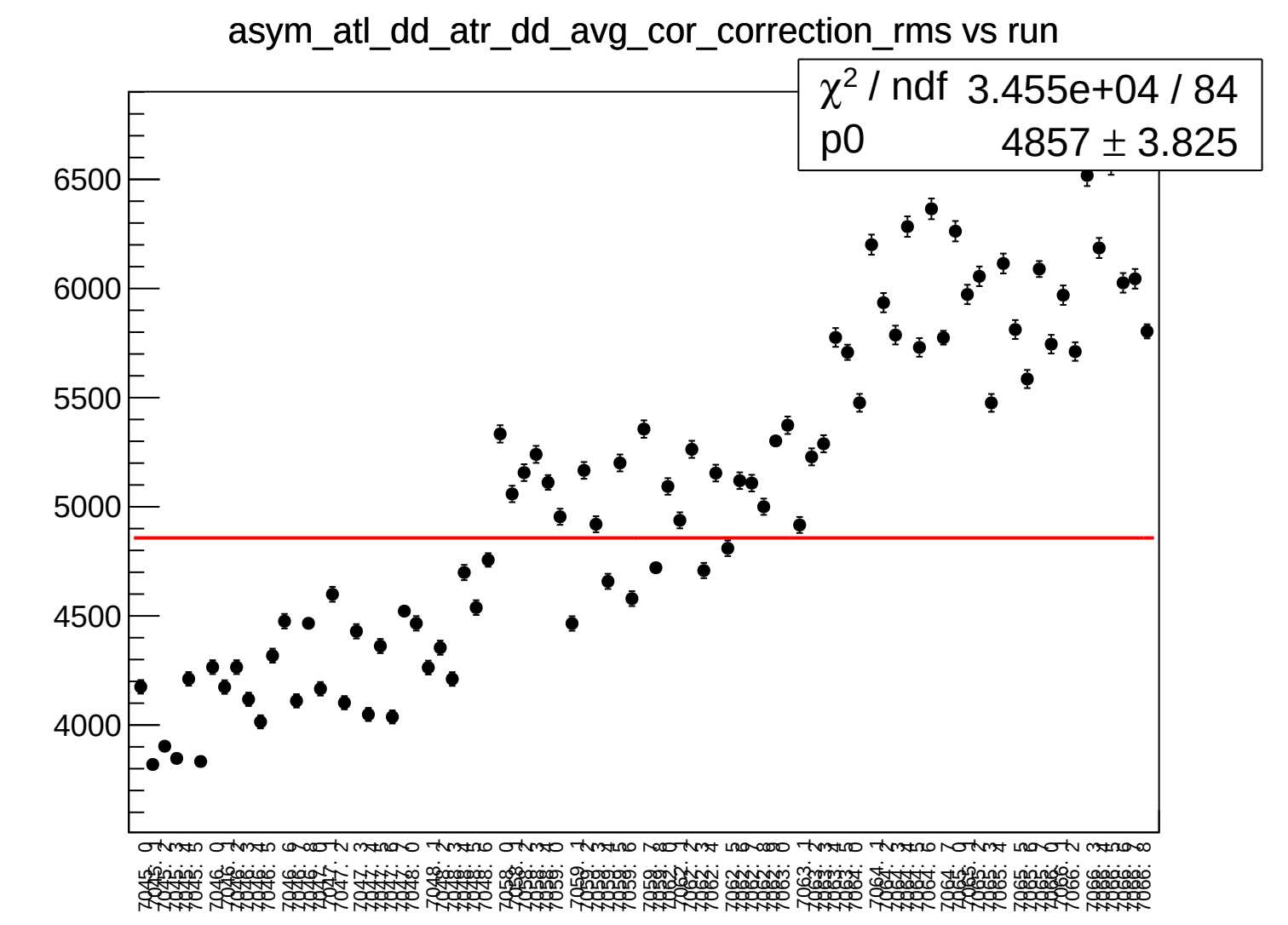

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.6
Std Dev 0

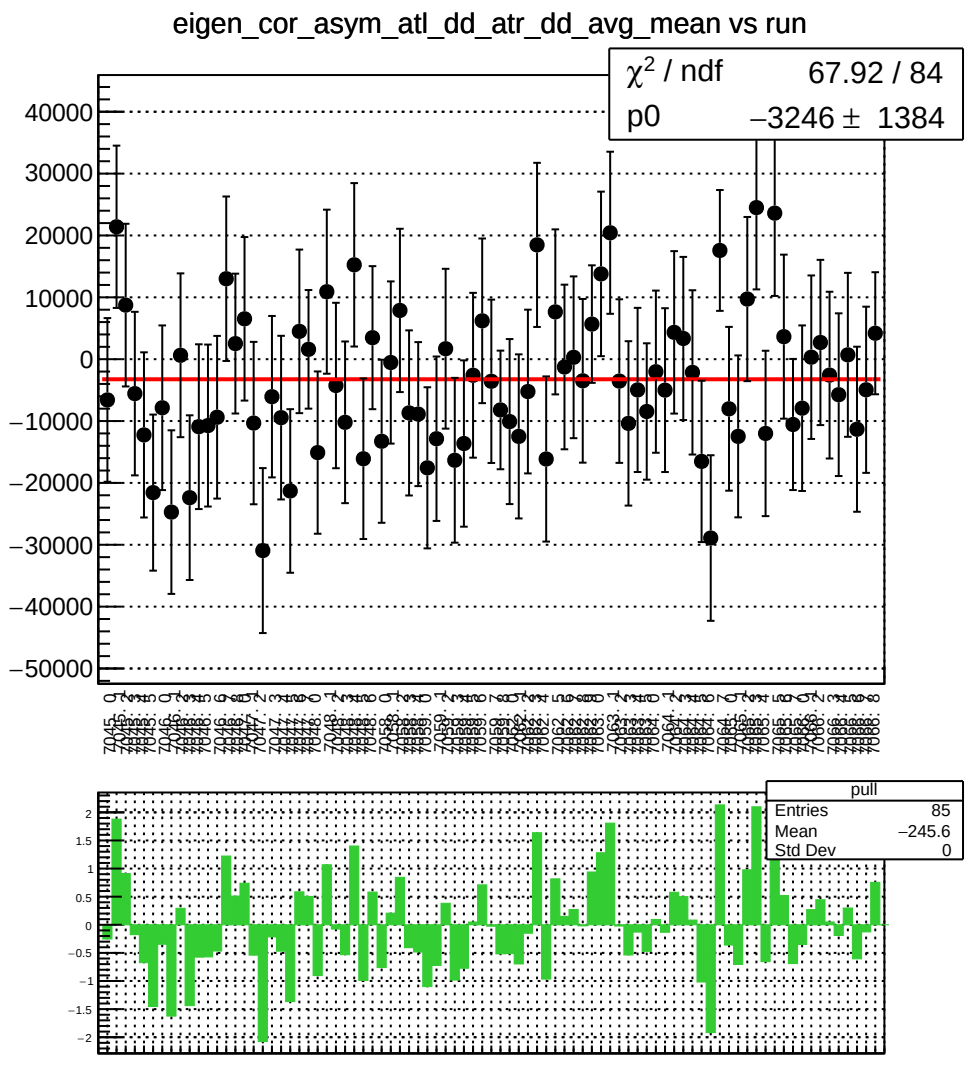

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

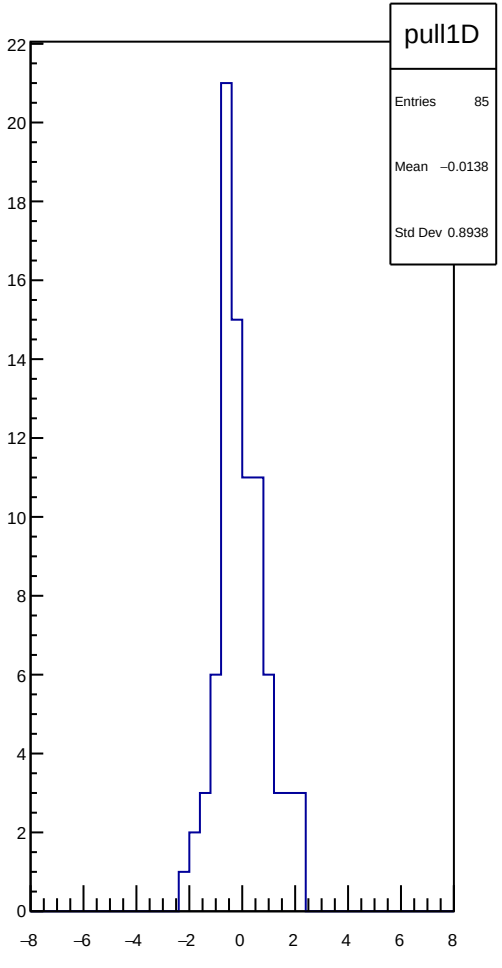

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

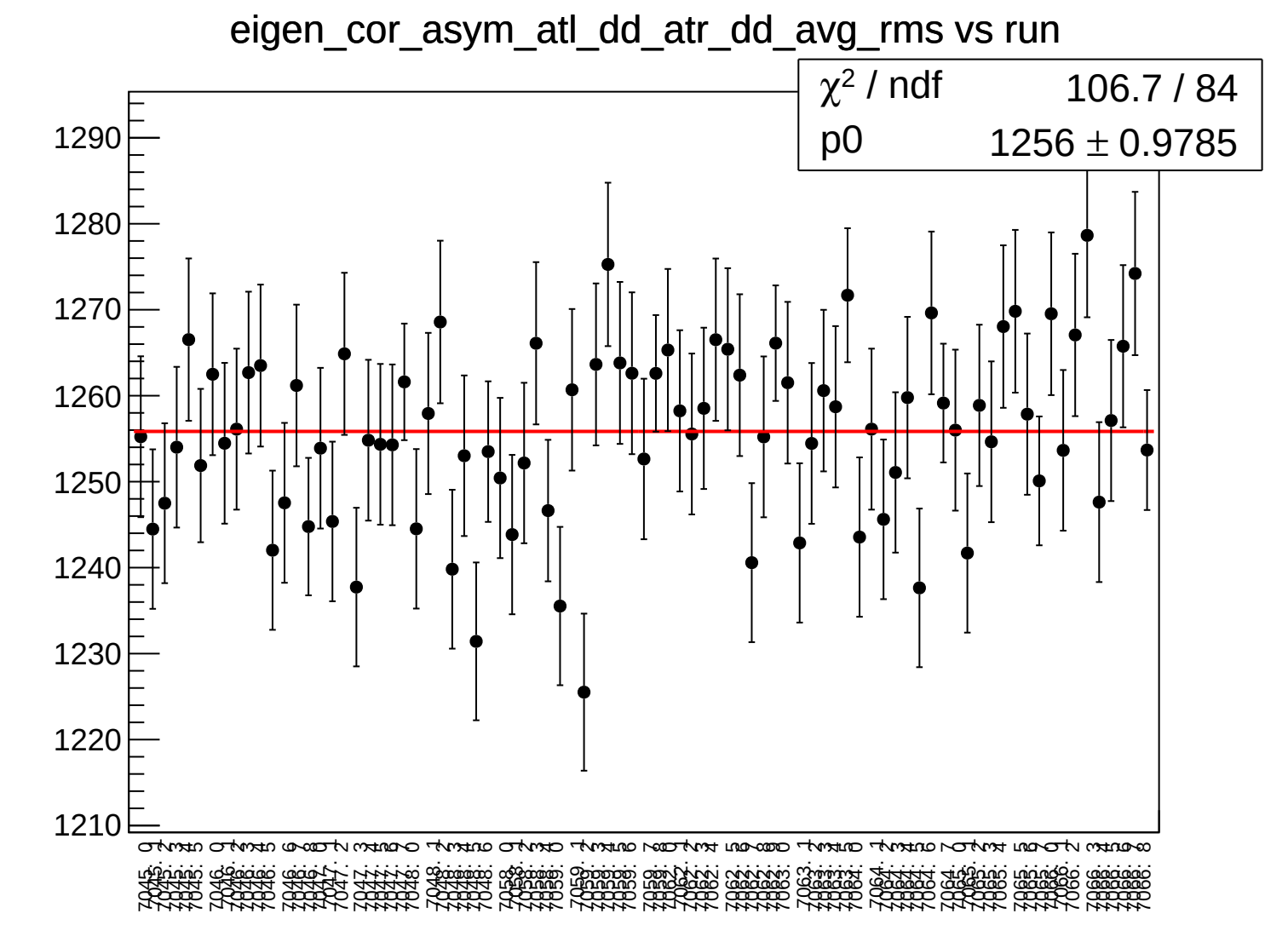

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

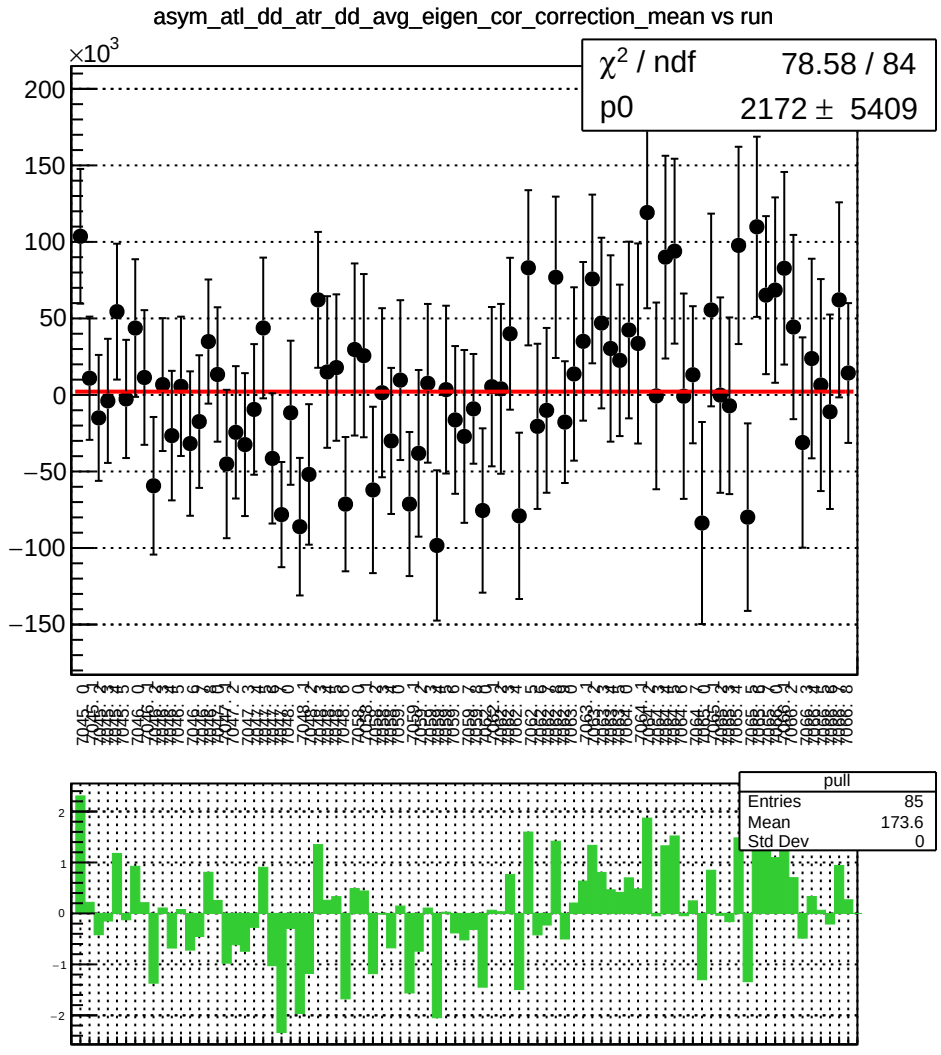

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

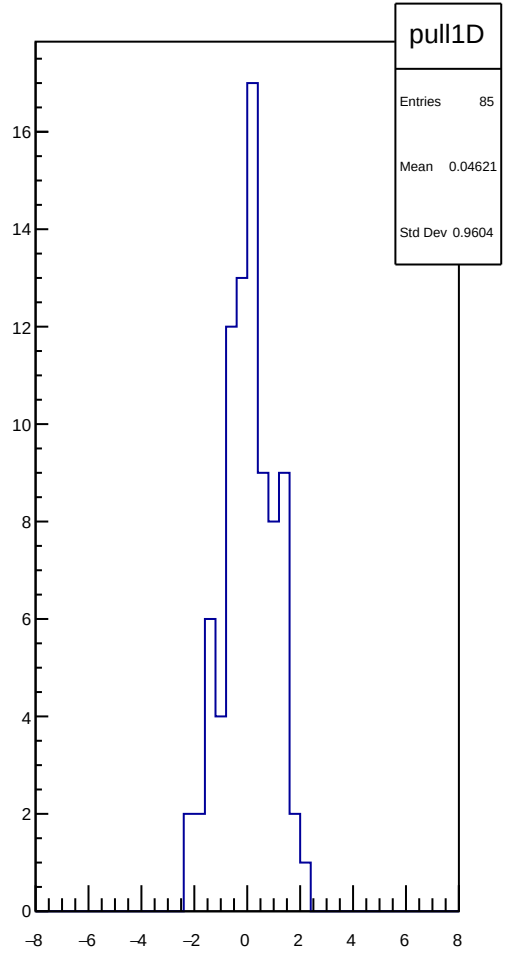

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

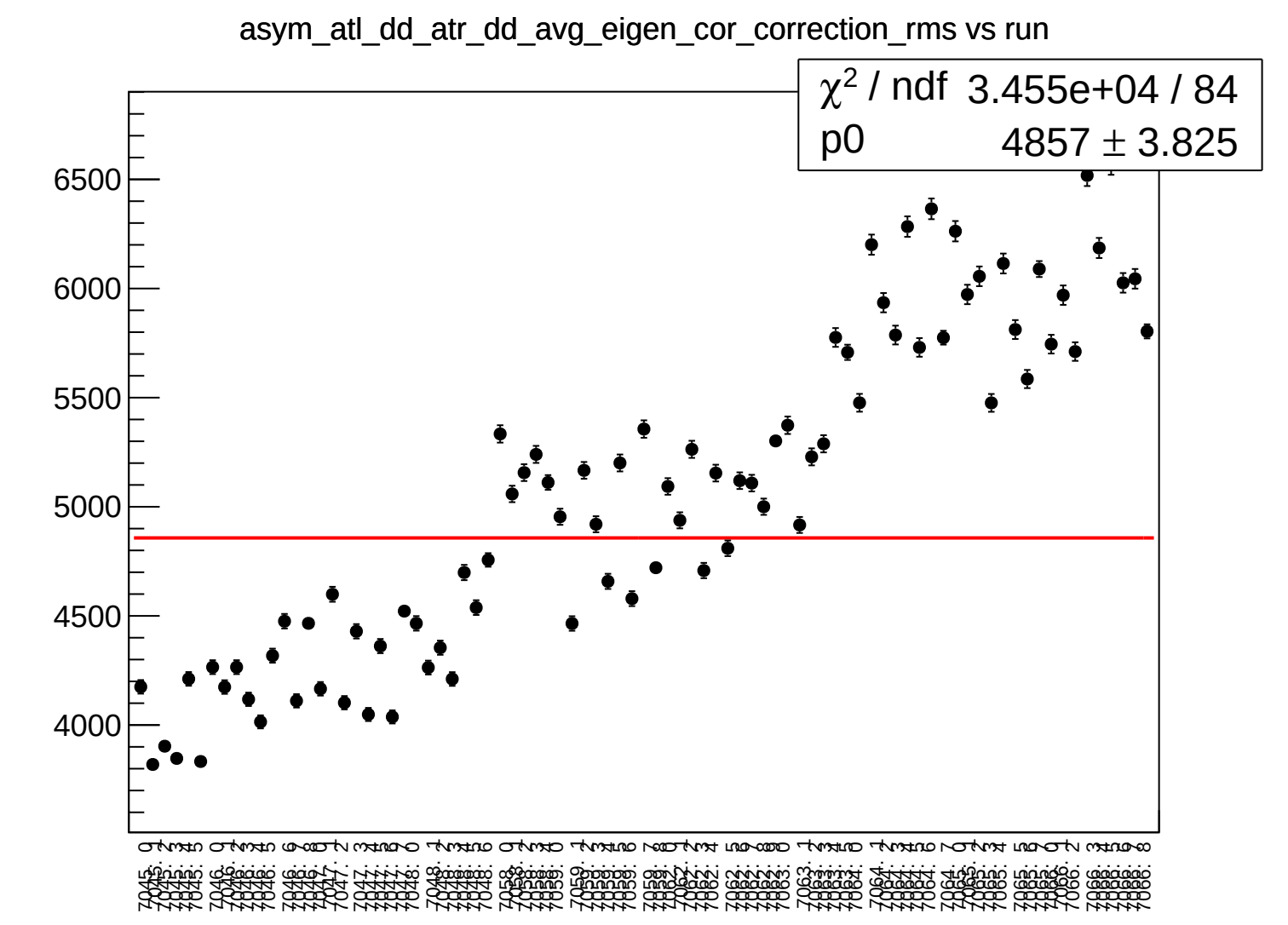

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.6
Std Dev 0

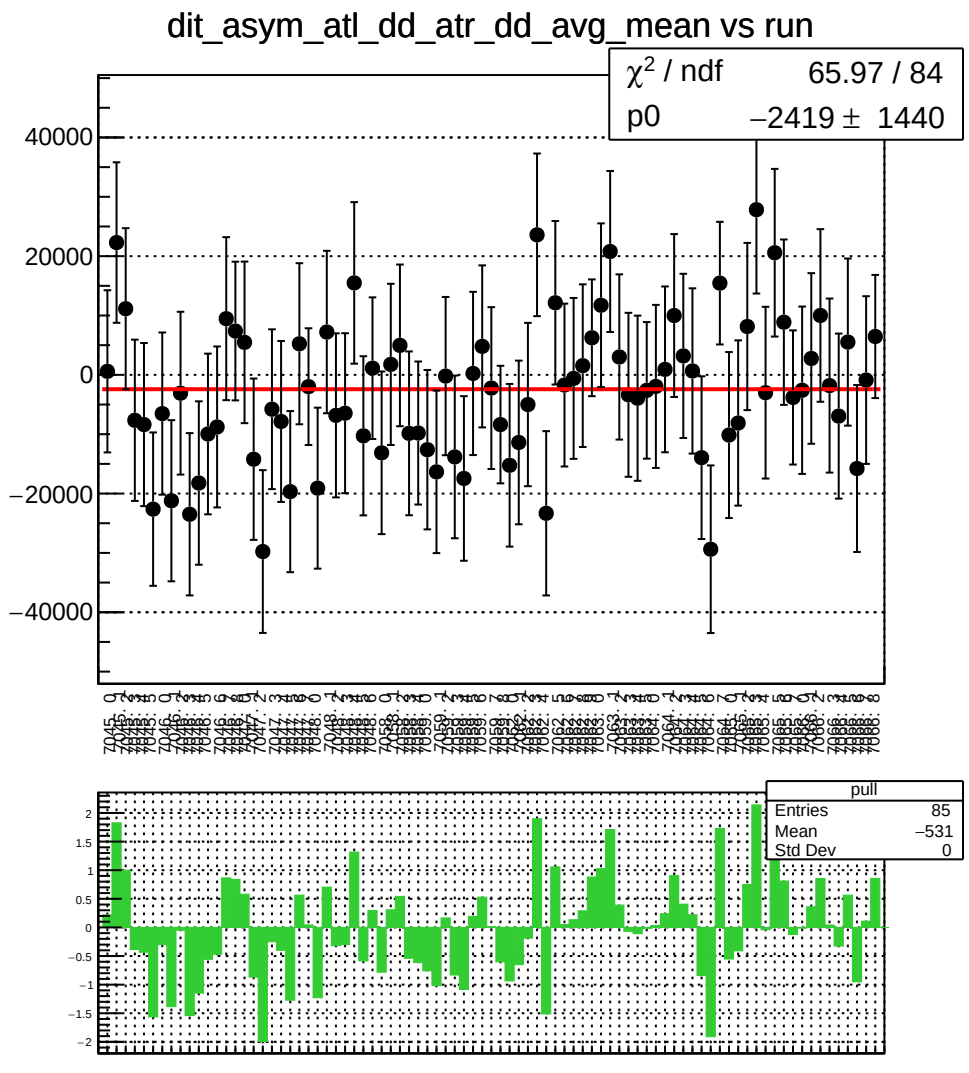

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

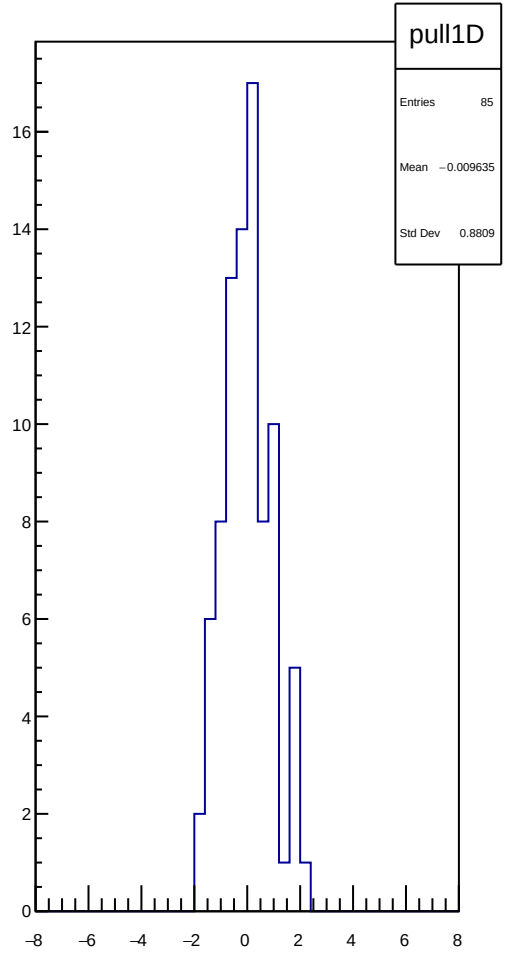

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

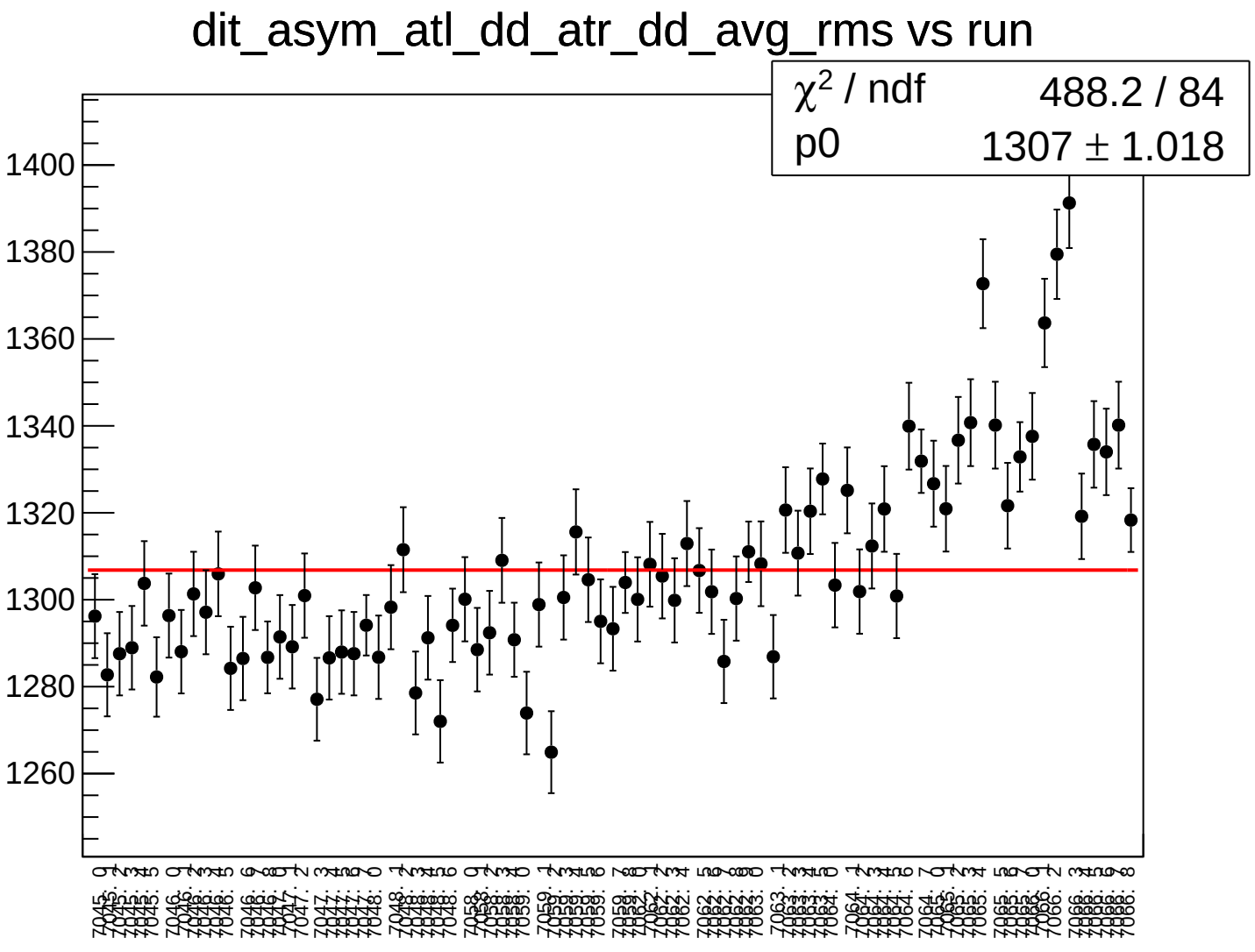

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

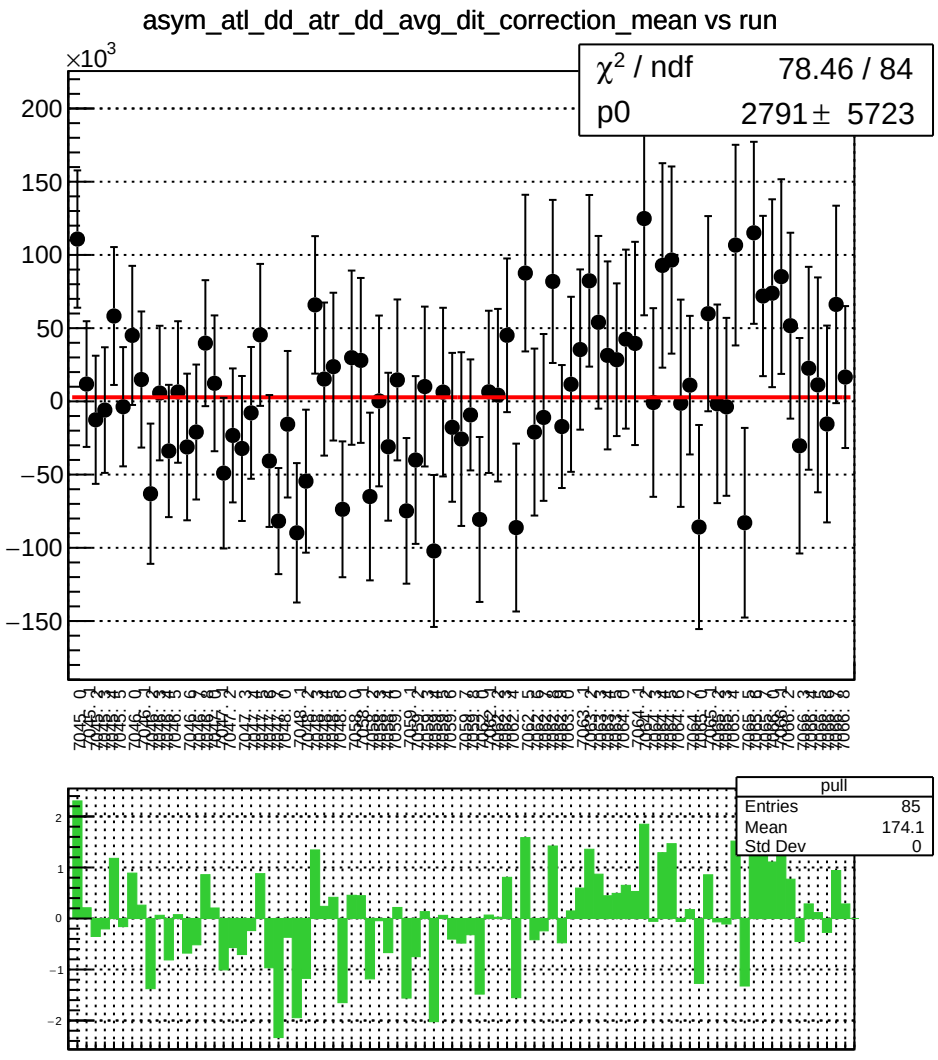

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

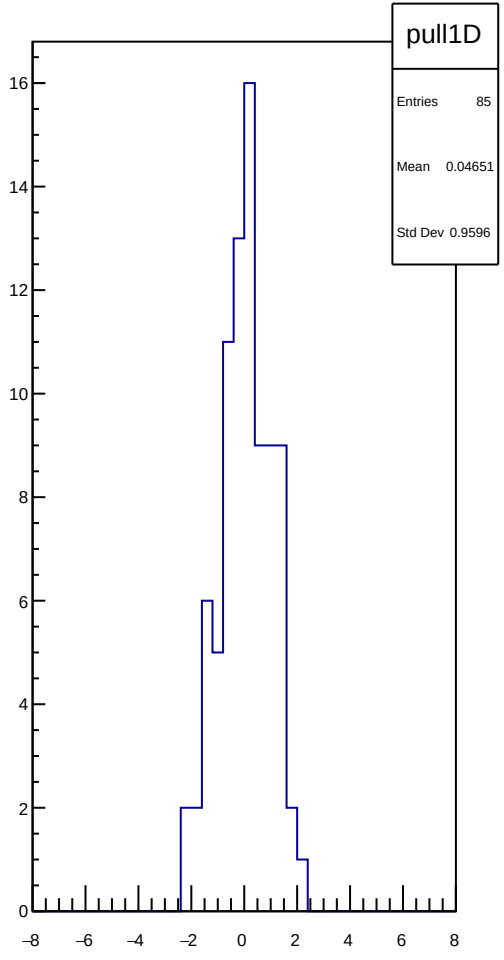

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

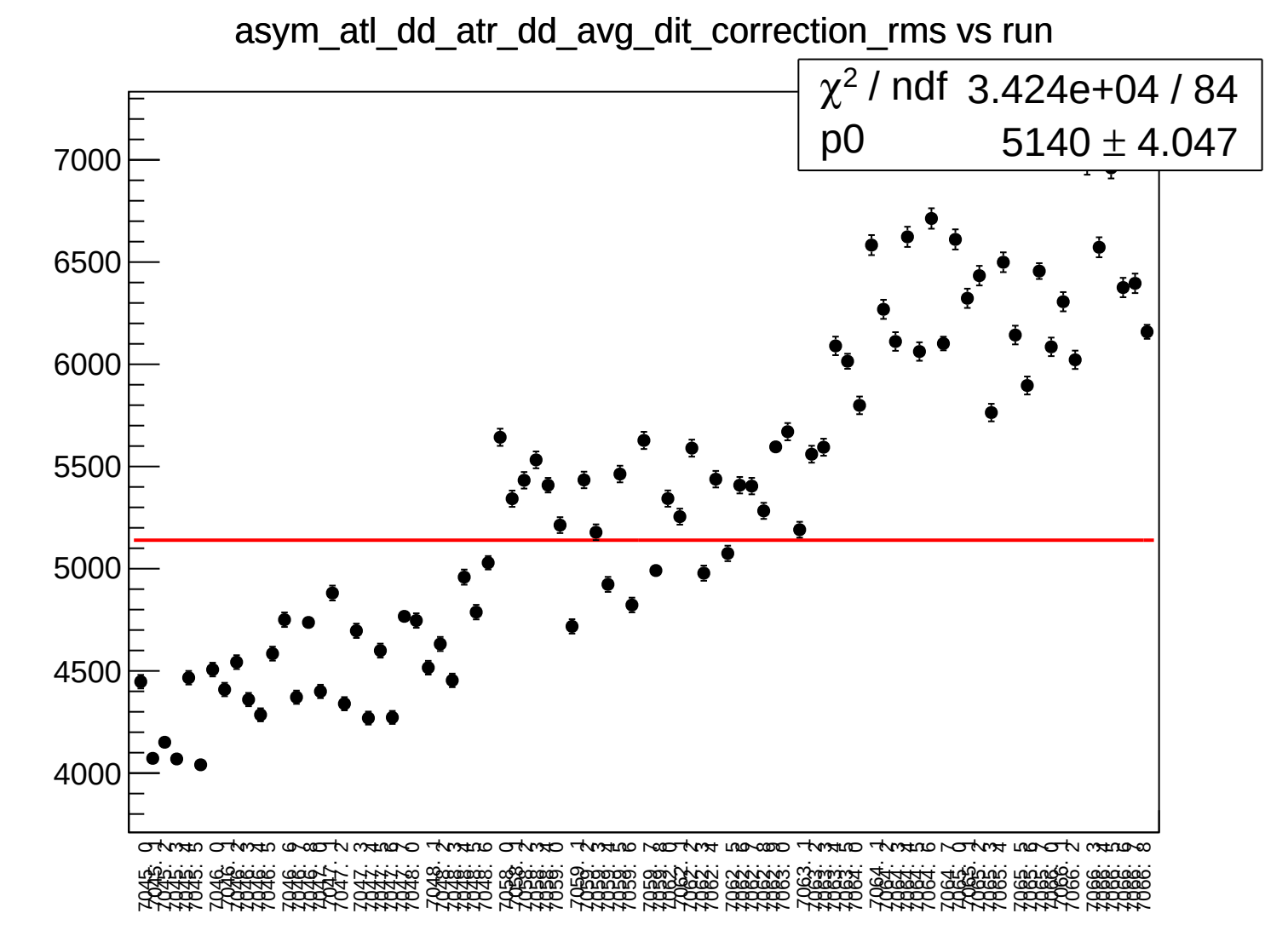

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.97 / 84
p0 −2419 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

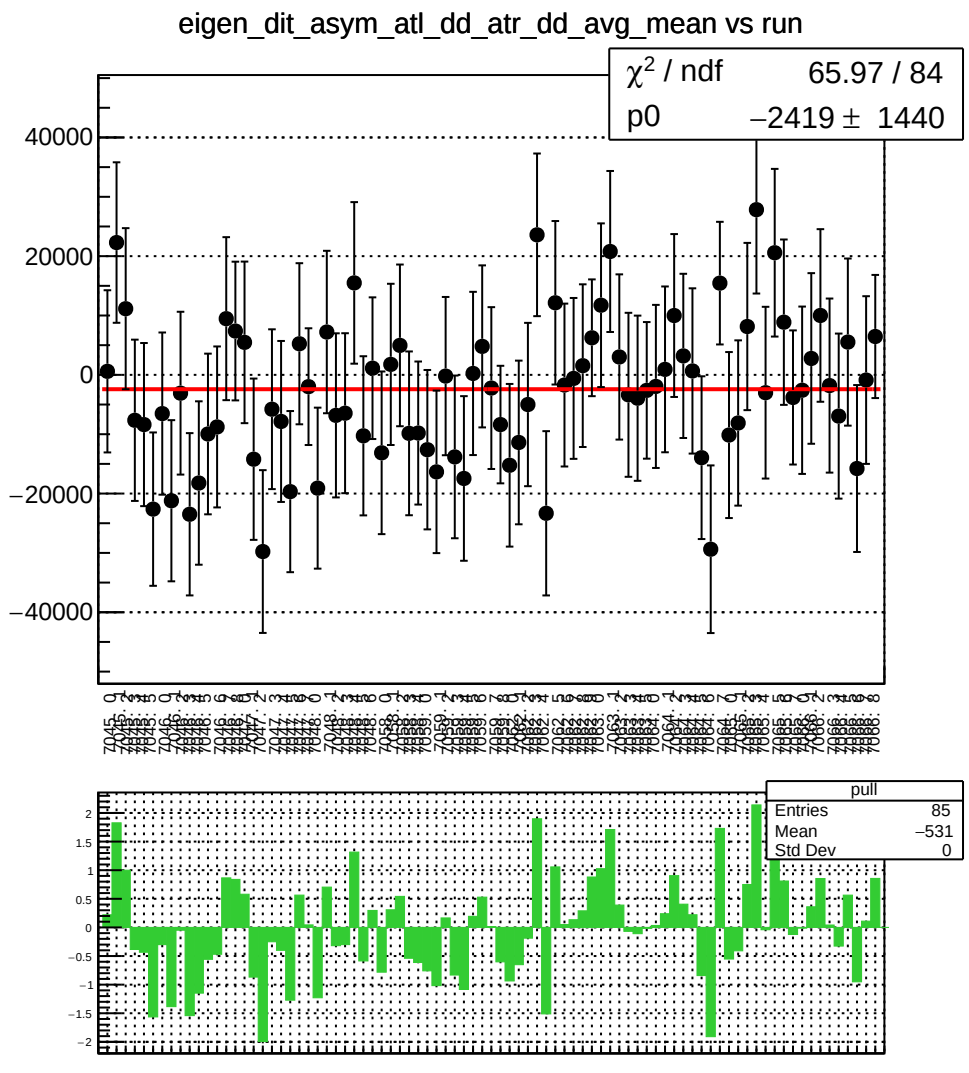

pull1D
Entries 85
Mean −0.009635
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

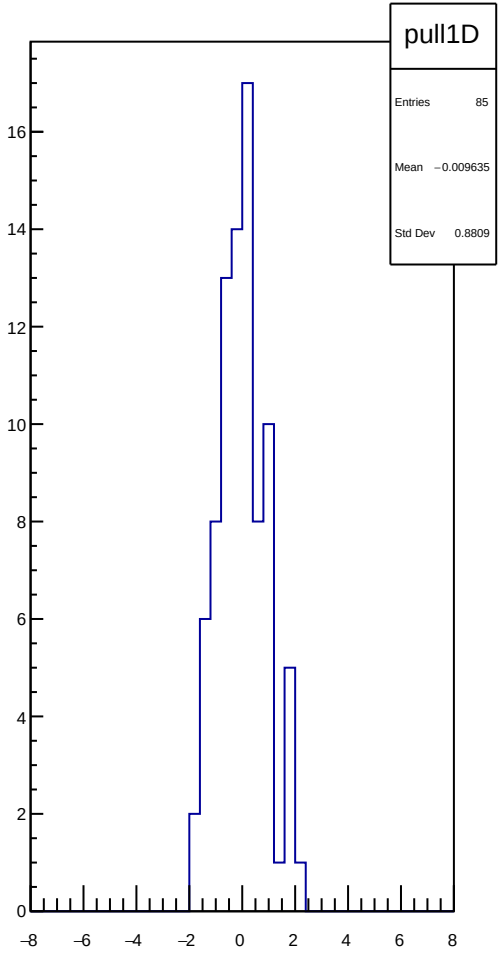

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 488.2 / 84
p0 1307 ± 1.018
1400
1380
1360
1340
1320
1300
1280
1260

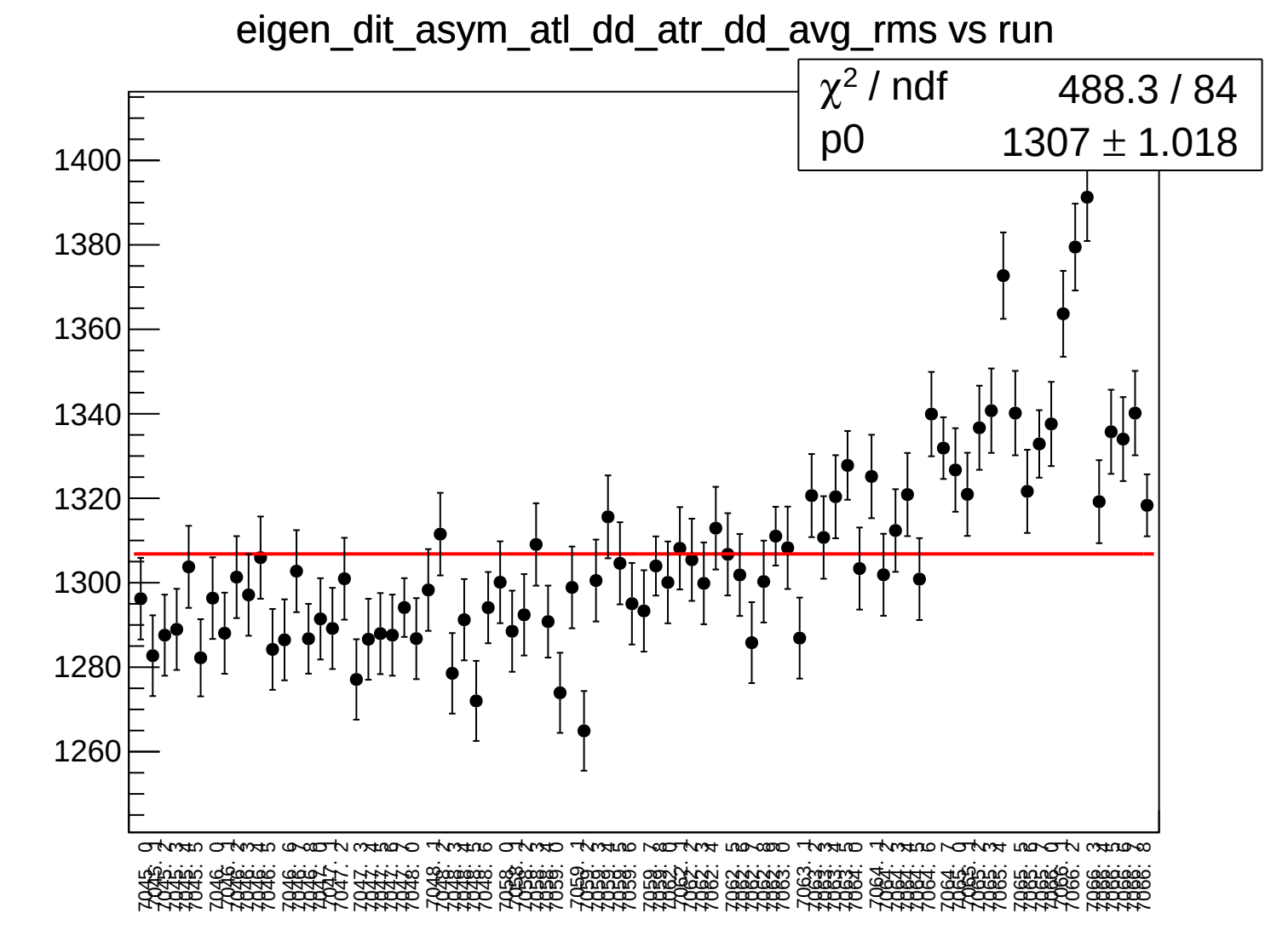

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 84
p0 2791 ± 5723
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 174.1
Std Dev 0
2
1
0
−1
−2

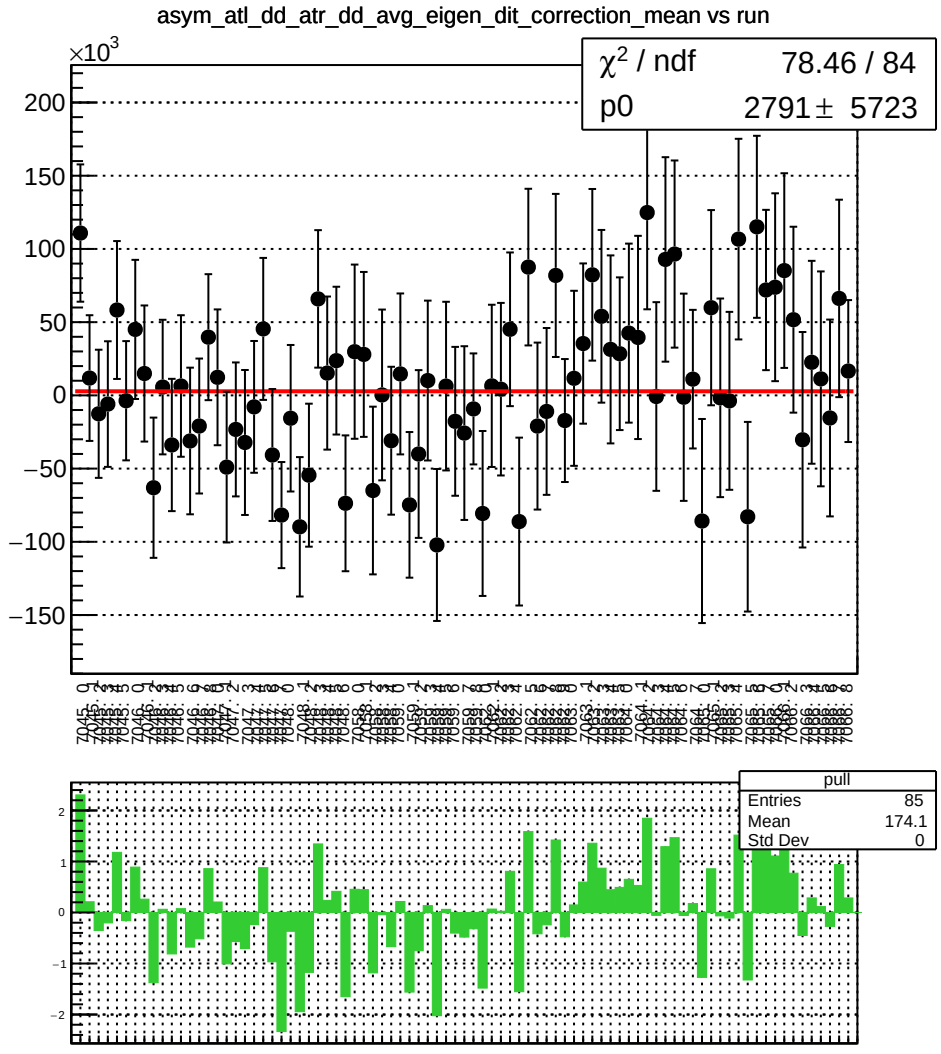

pull1D
Entries 85
Mean 0.04651
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

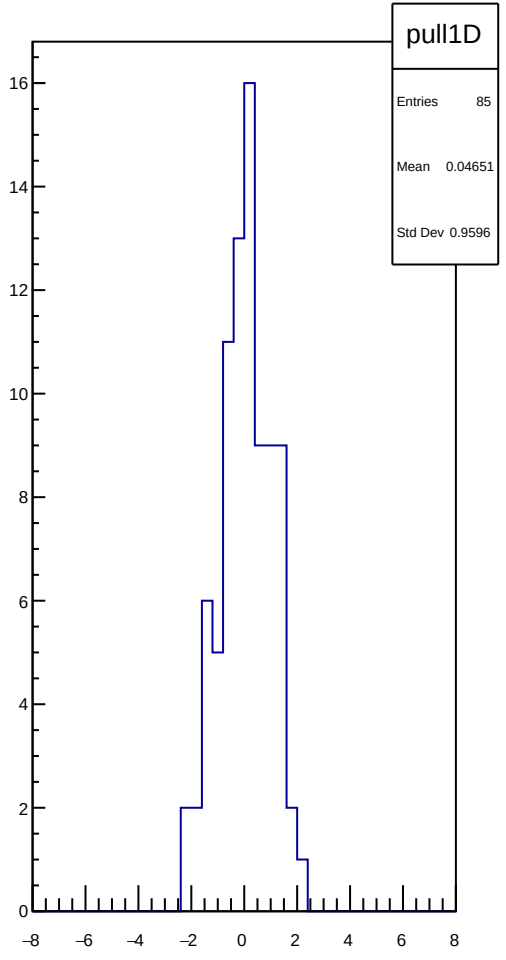

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.424e+04 / 84
p0 5140 ± 4.047
7000
6500
6000
5500
5000
4500
4000

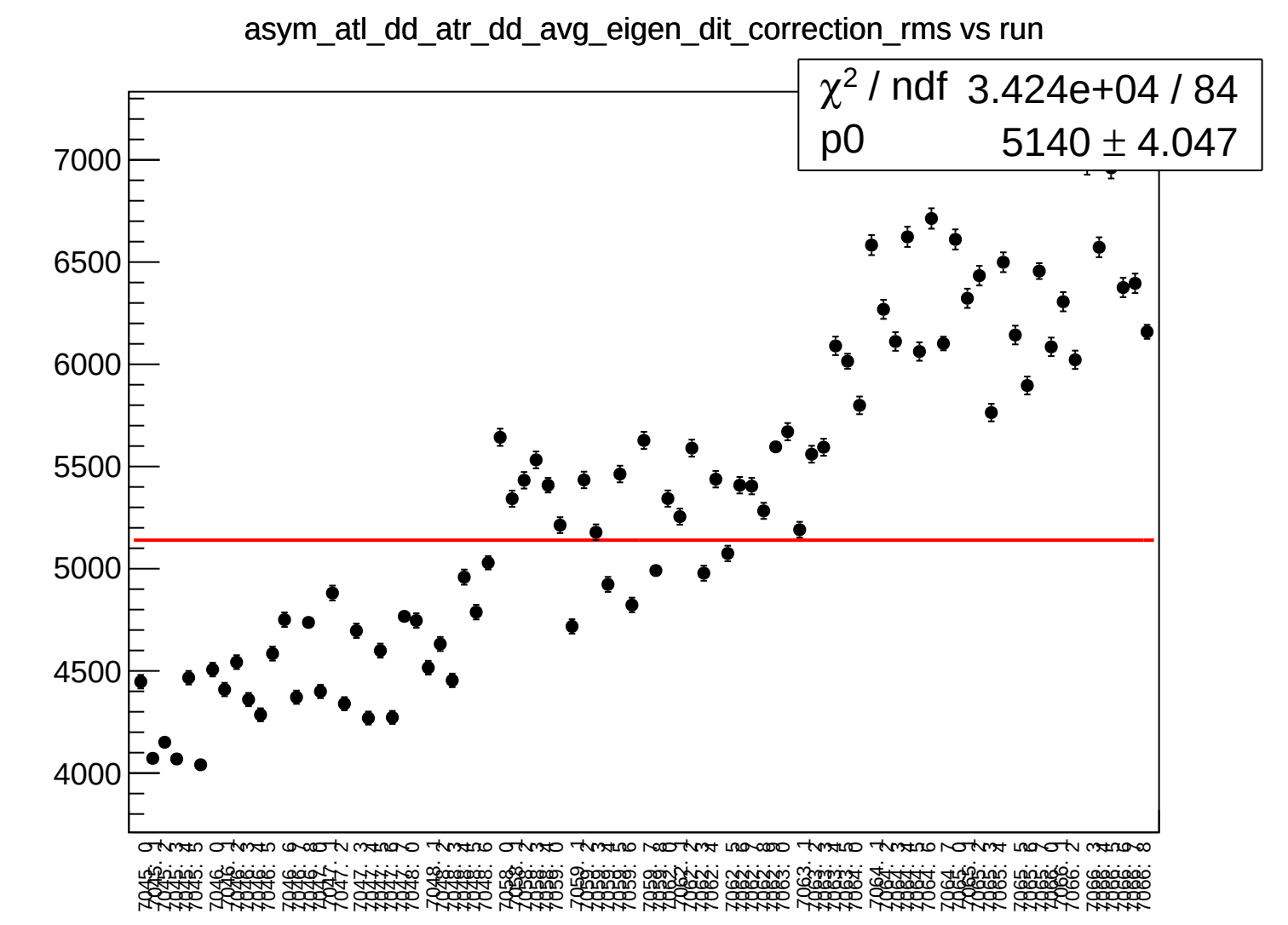

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.97 / 84
p0 −2419 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

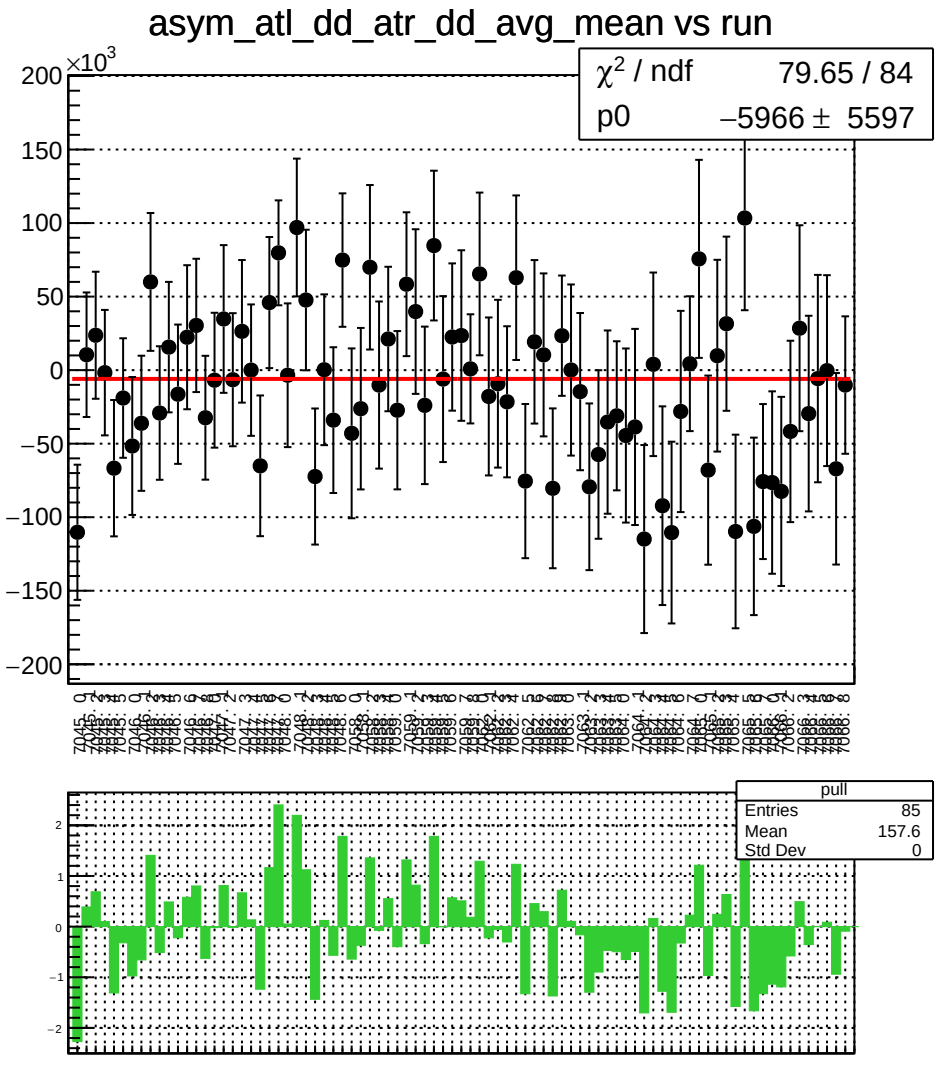

pull1D
Entries 85
Mean −0.009635
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

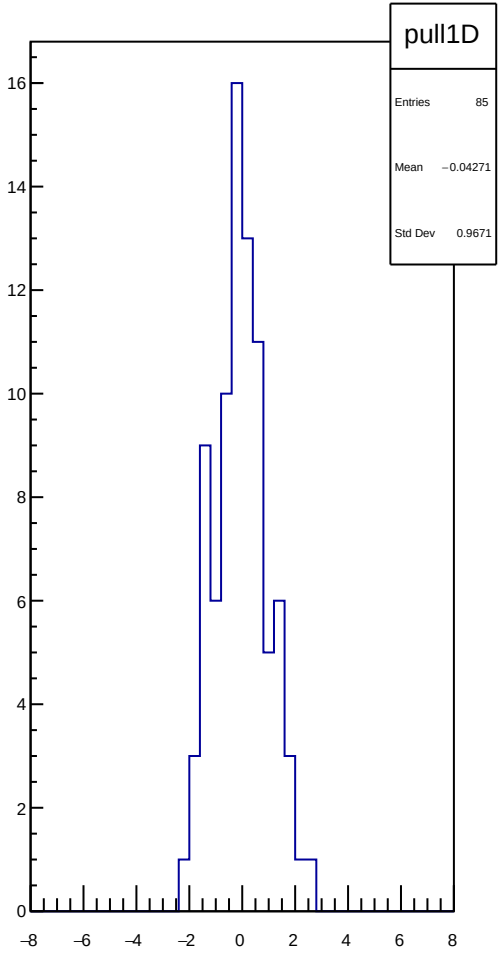

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 488.3 / 84
p0 1307 ± 1.018
1400
1380
1360
1340
1320
1300
1280
1260

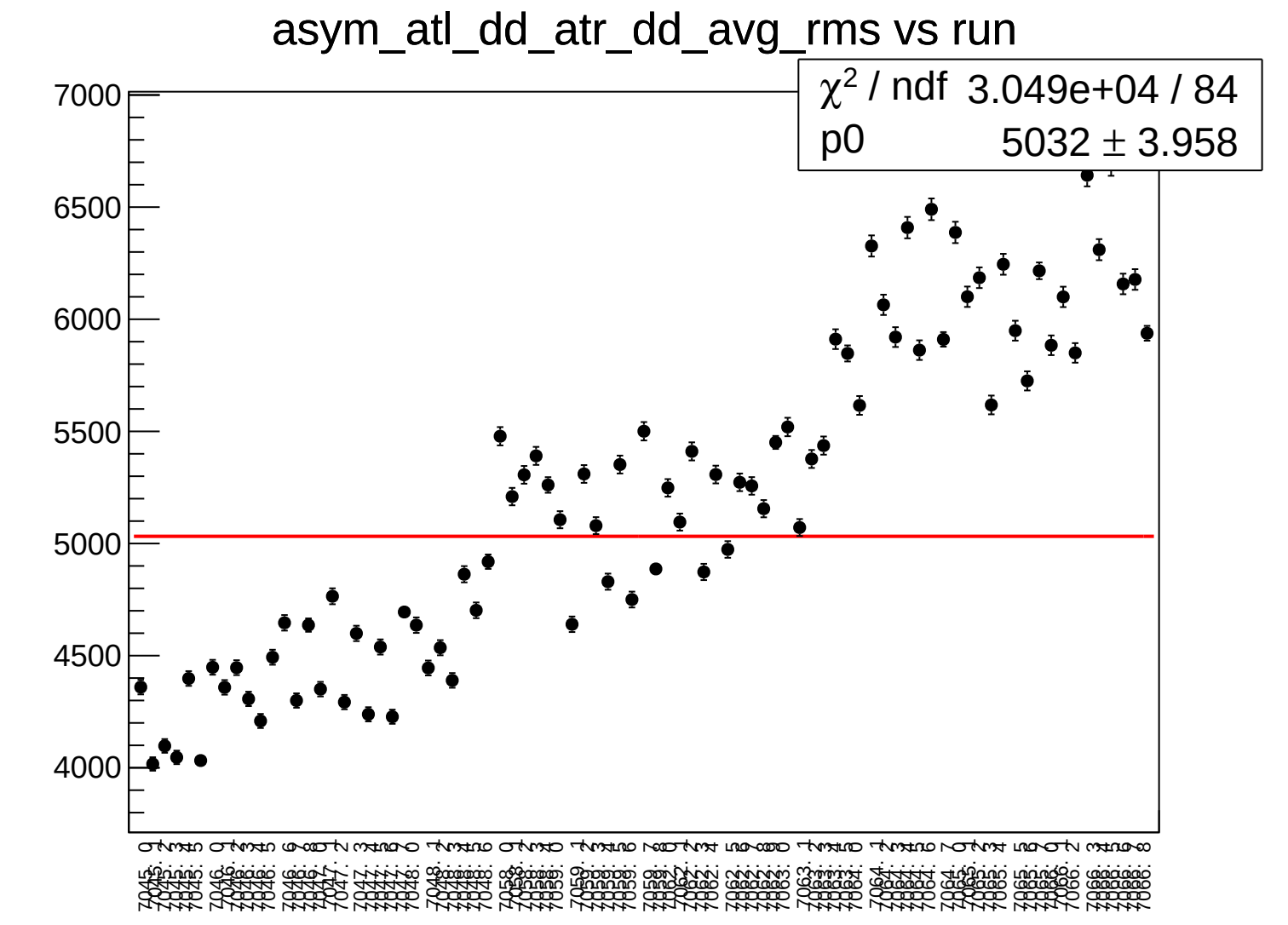

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 84
p0 2791 ± 5723
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 174.1
Std Dev 0
2
1
0
−1
−2

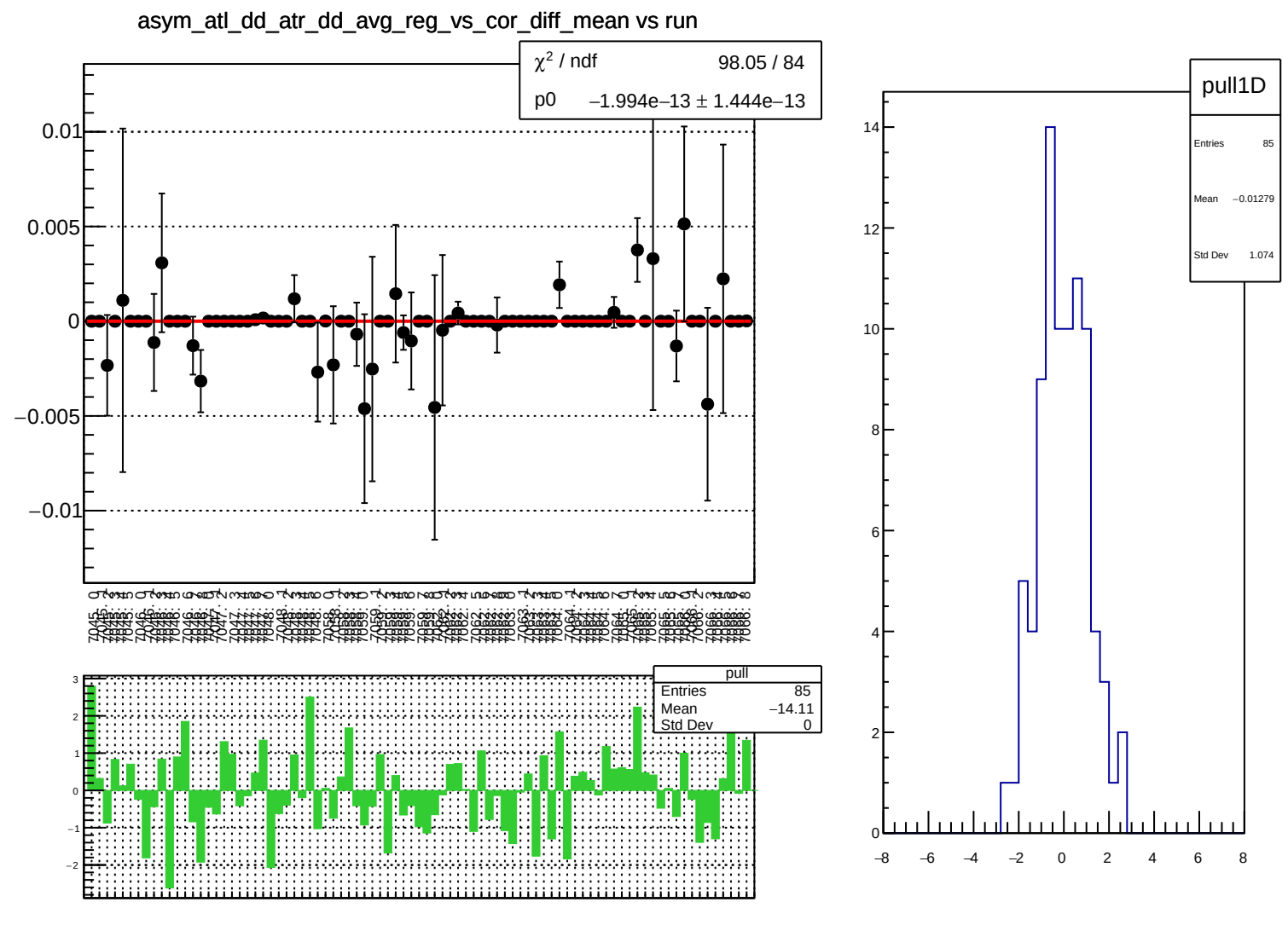

pull1D
Entries 85
Mean 0.04651
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

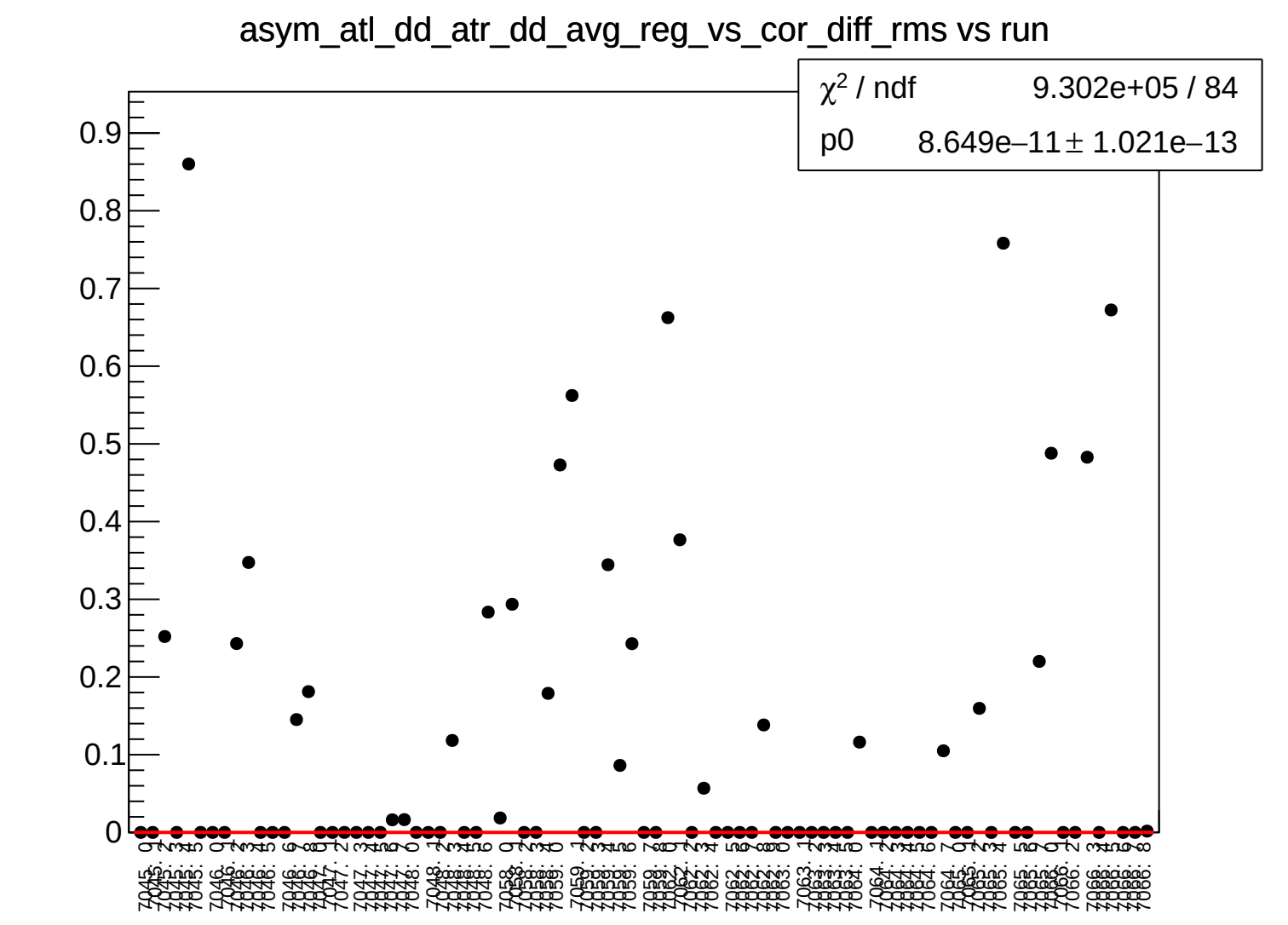

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.424e+04 / 84
p0 5140 ± 4.047
7000
6500
6000
5500
5000
4500
4000

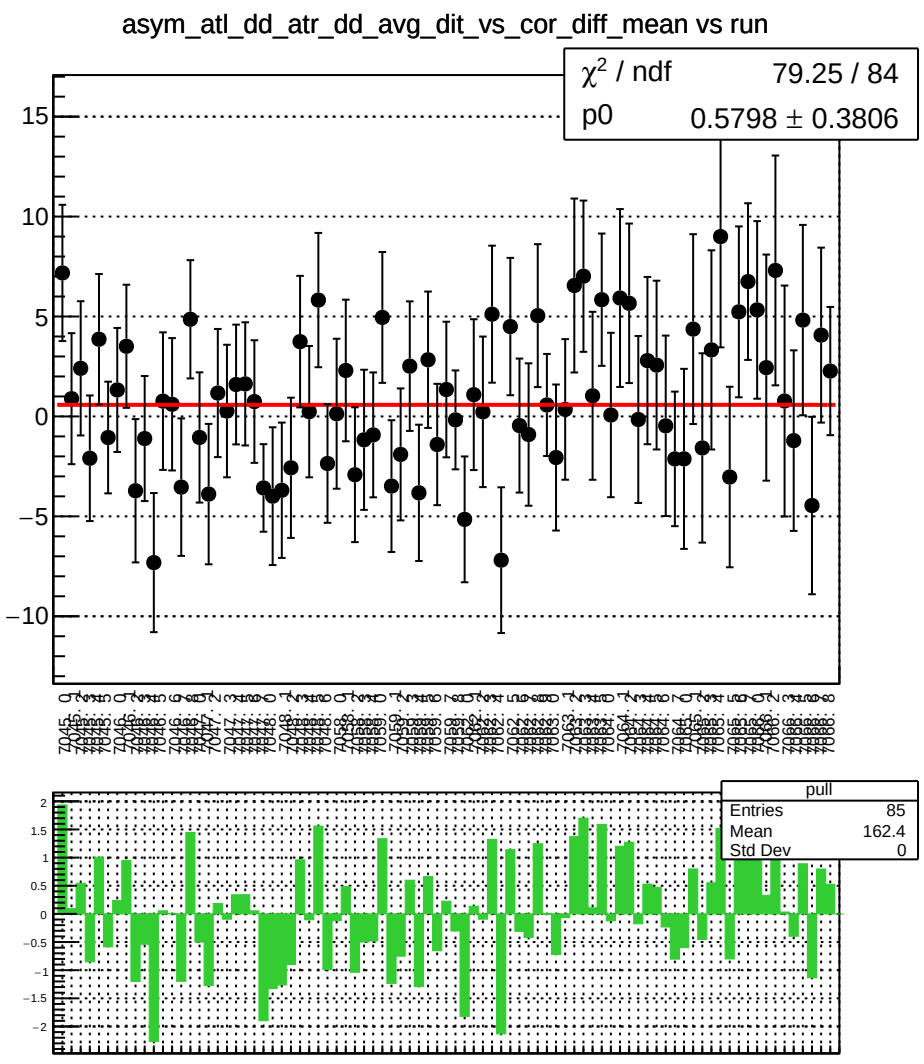

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.65 / 84
p0 −5966 ± 5597
×10³
pull
Entries 85
Mean 157.6
Std Dev 0

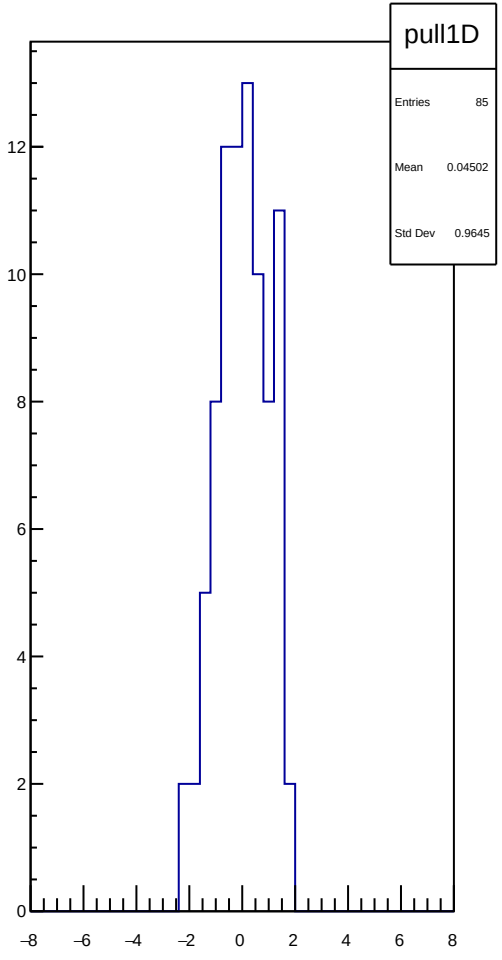

pull1D
Entries 85
Mean −0.04271
Std Dev 0.9671

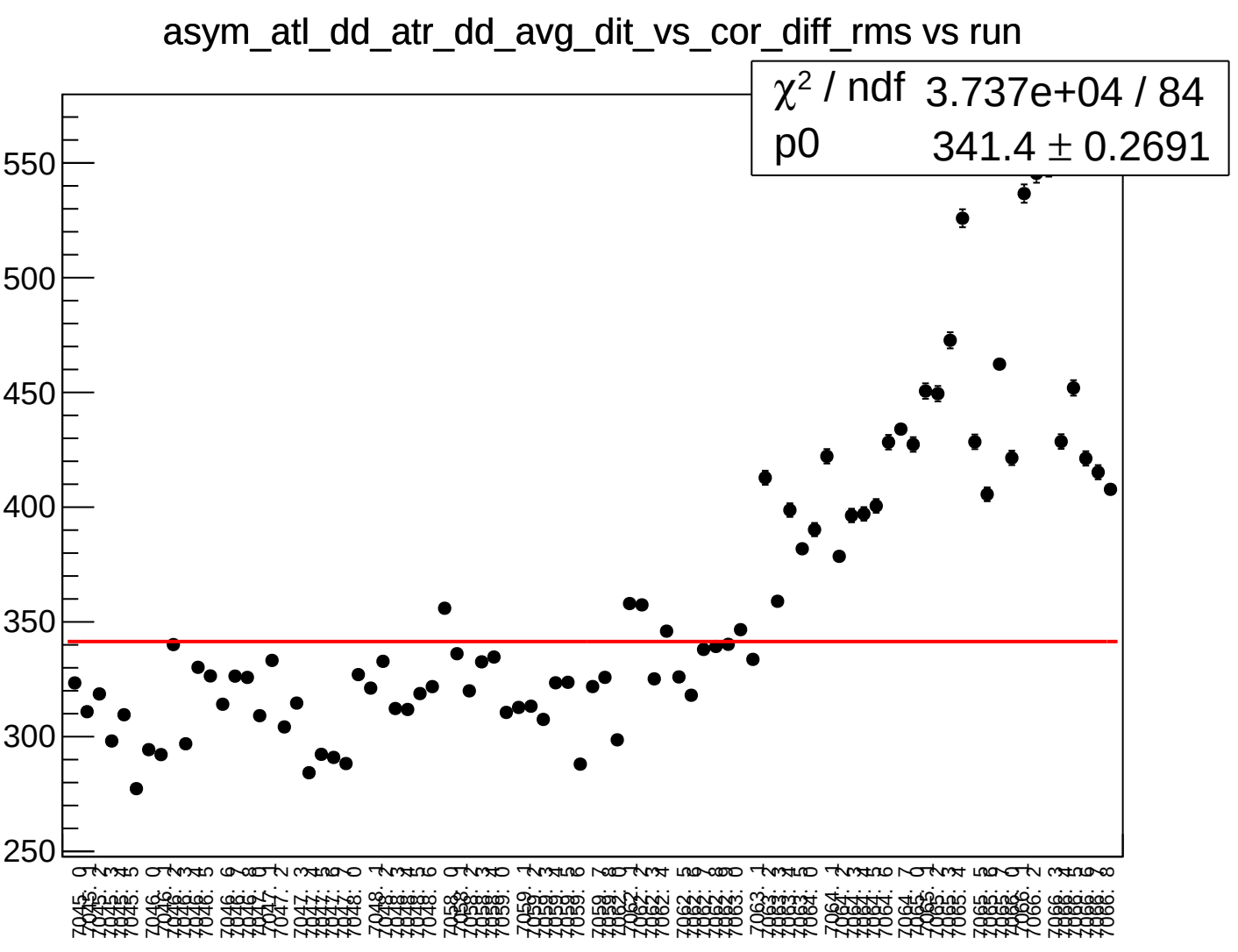

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3.049e+04 / 84
p0 5032 ± 3.958
7000
6500
6000
5500
5000
4500
4000

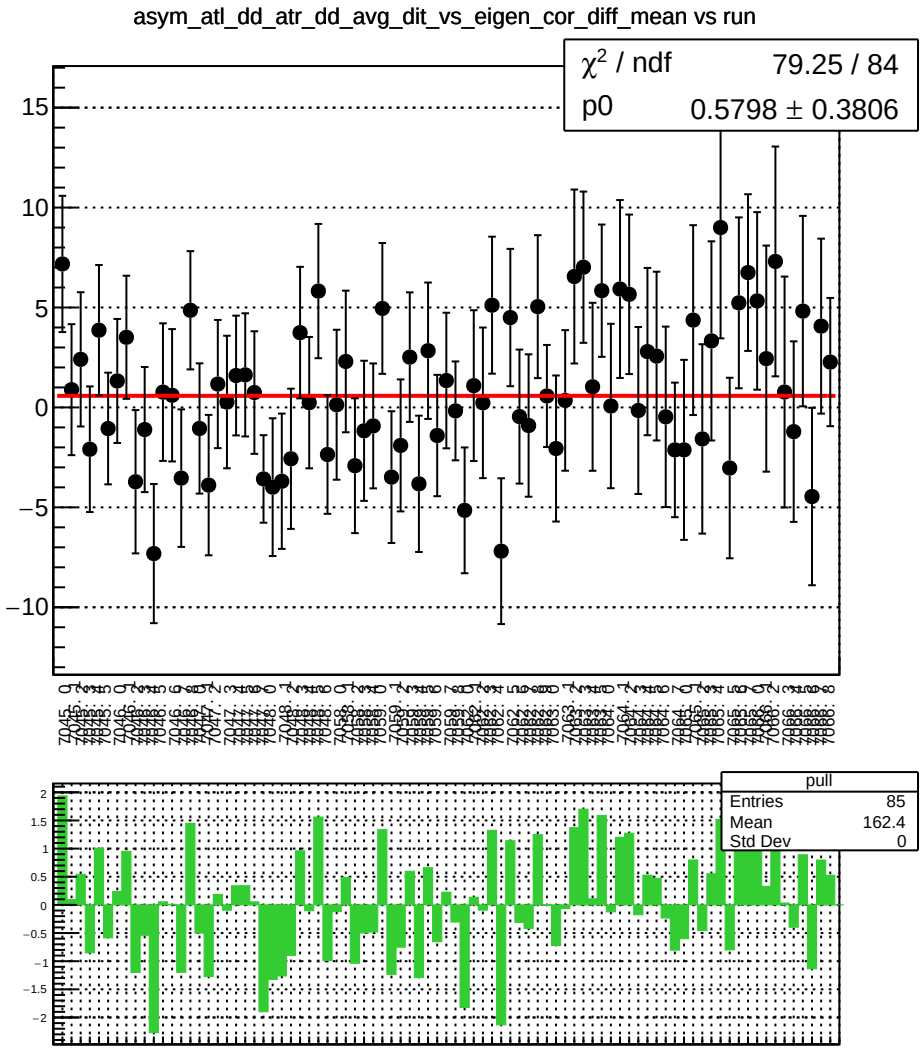

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 84
p0 −1.994e−13 ± 1.444e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean −14.11
Std Dev 0
pull1D
Entries 85
Mean −0.01279
Std Dev 1.074

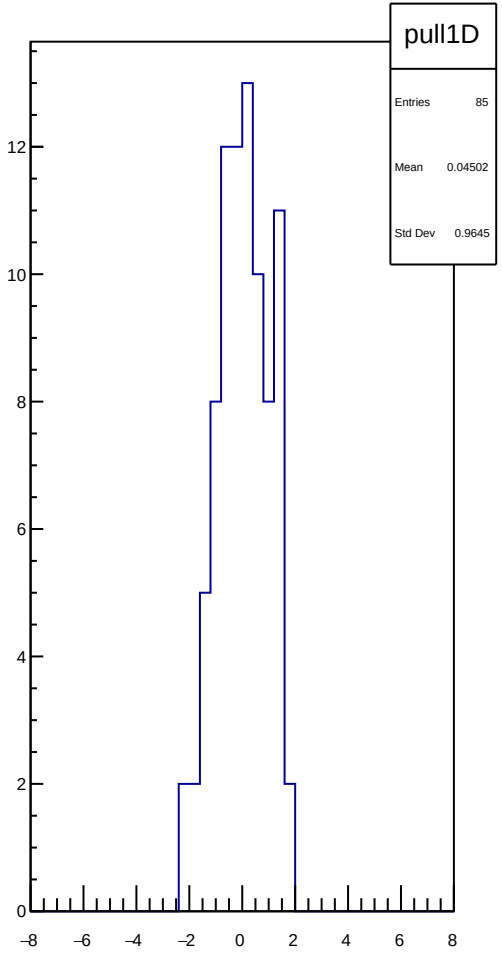

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.302e+05 / 84
p0 8.649e−11 ± 1.021e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

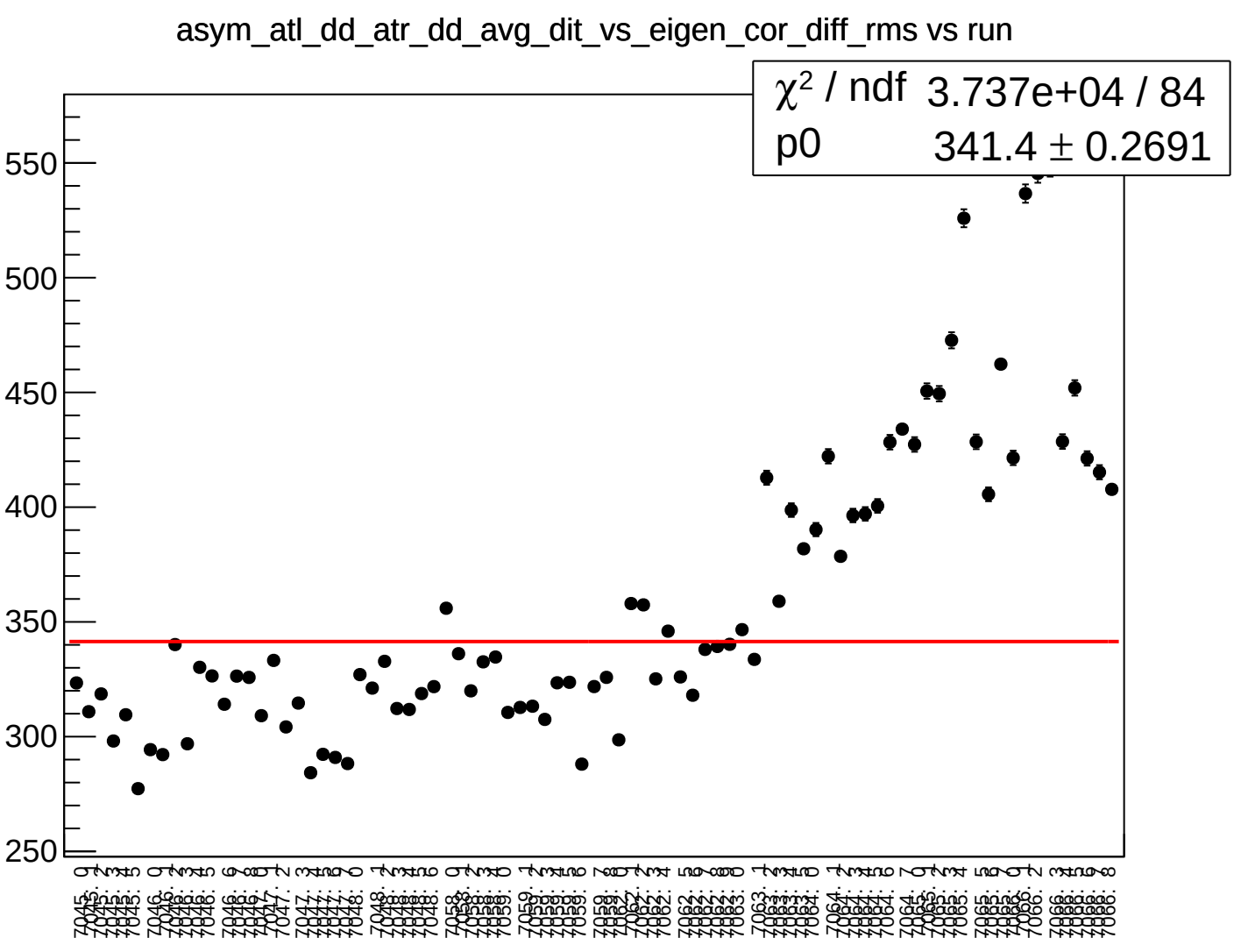

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

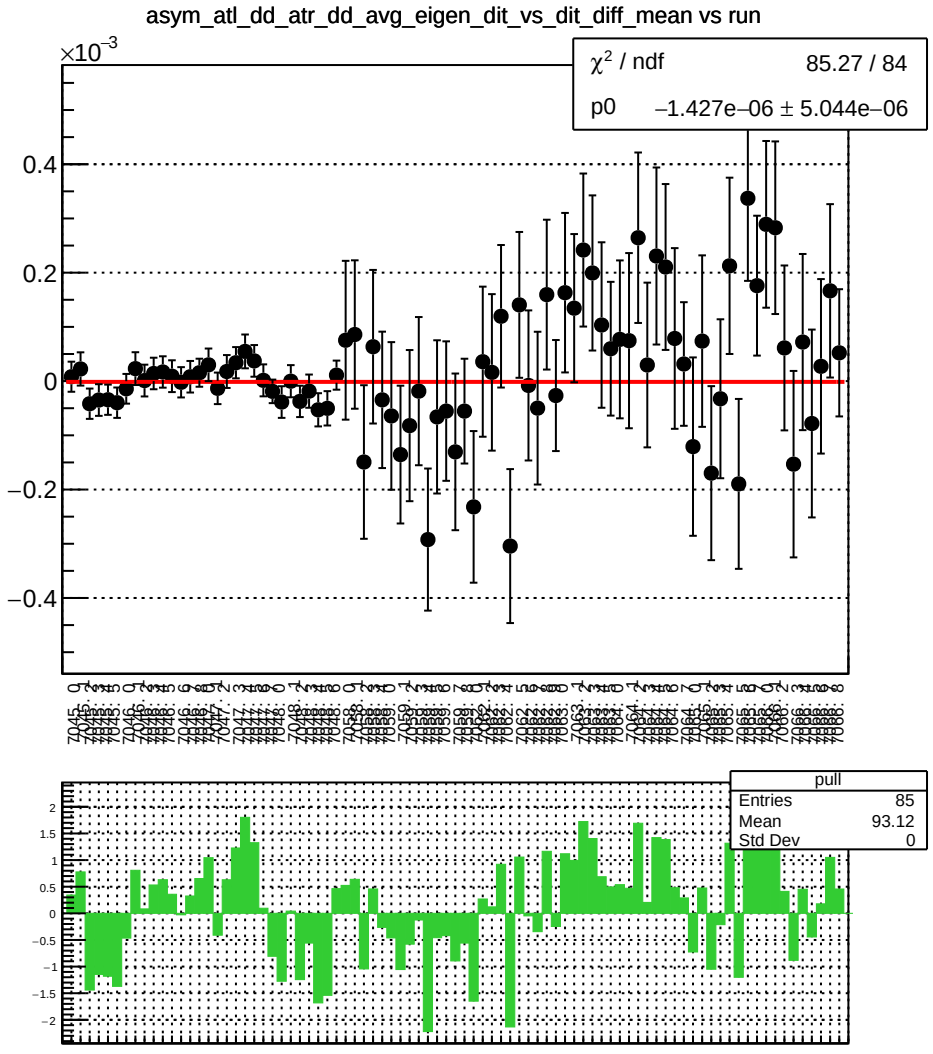

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

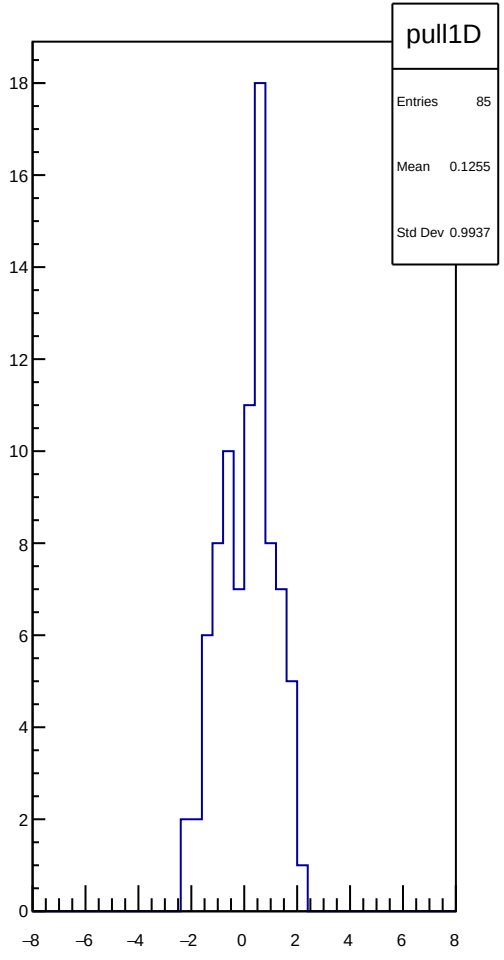

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.737e+04 / 84
p0 341.4 ± 0.2691
550
500
450
400
350
300
250

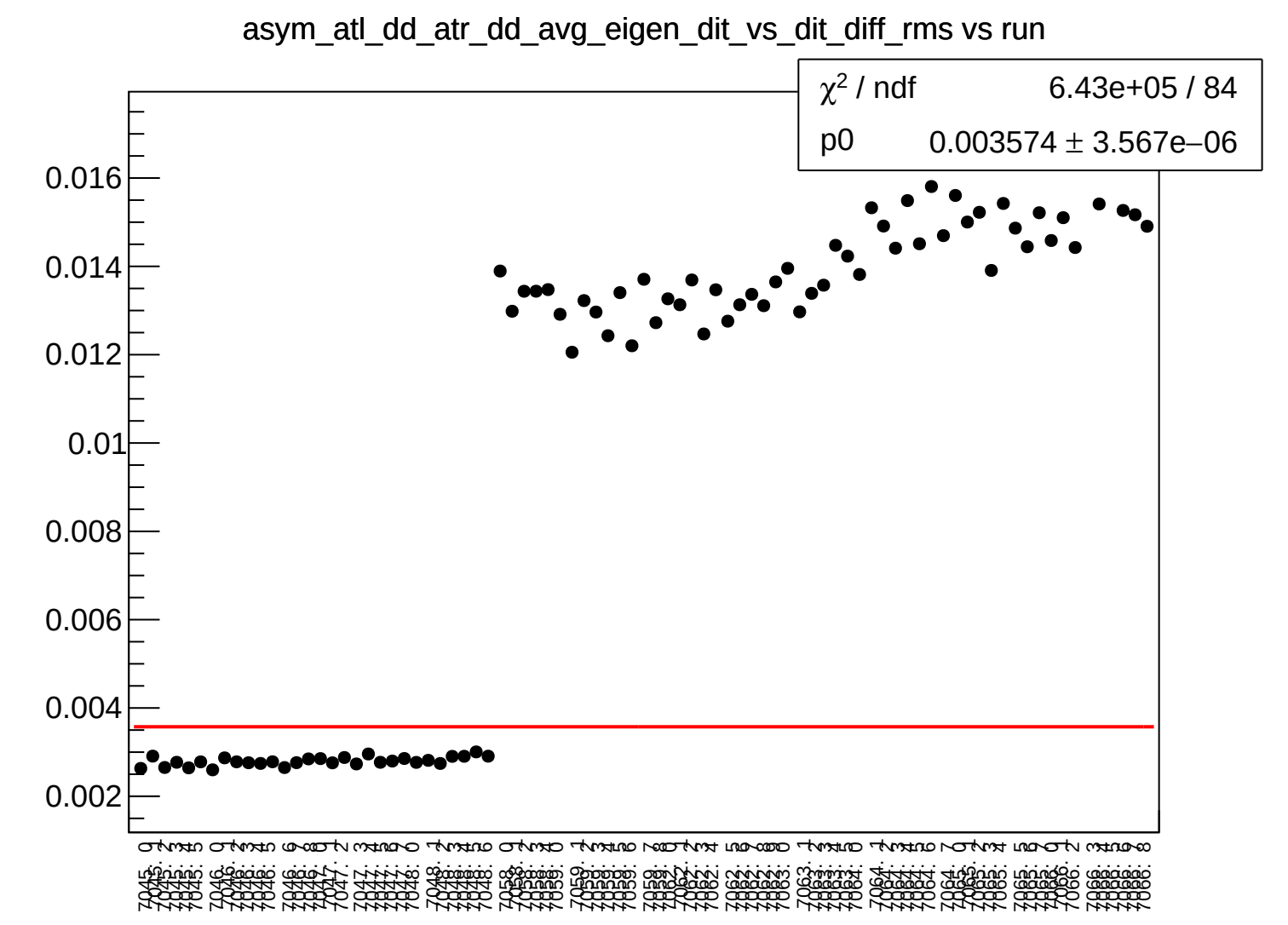

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

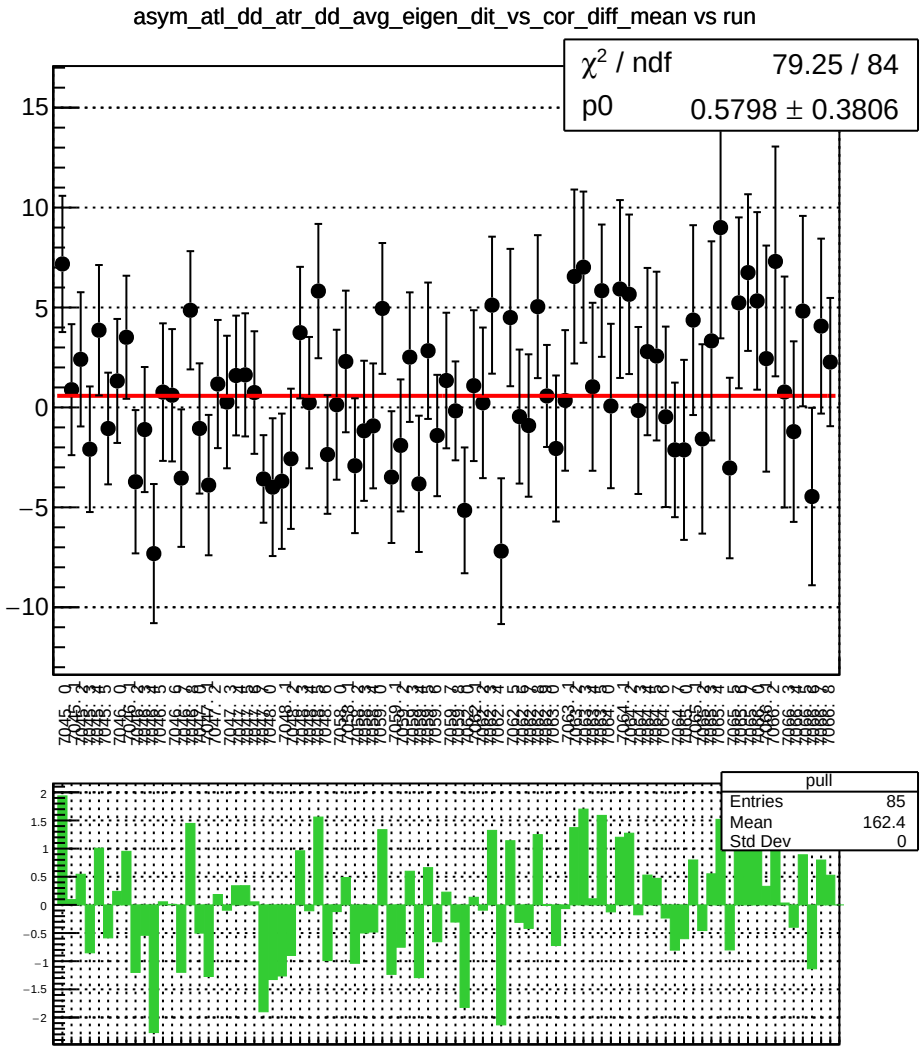

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

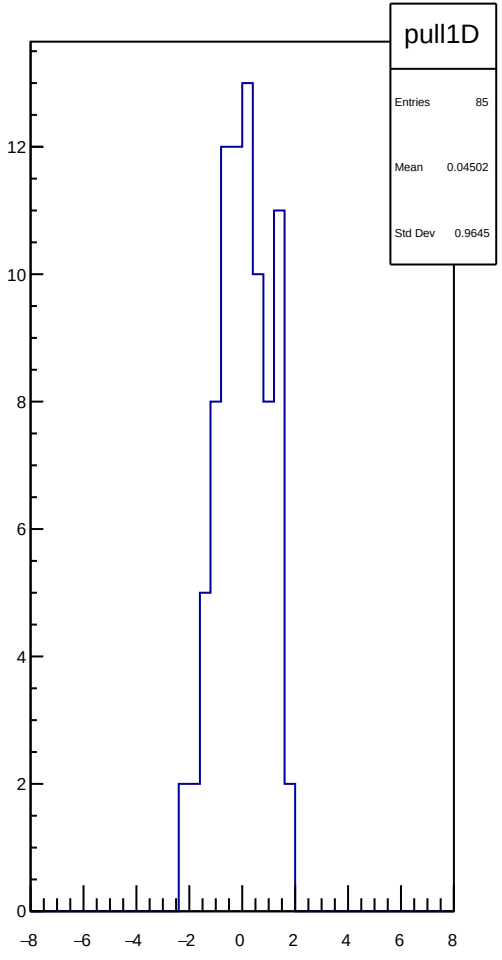

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.737e+04 / 84
p0 341.4 ± 0.2691
550
500
450
400
350
300
250

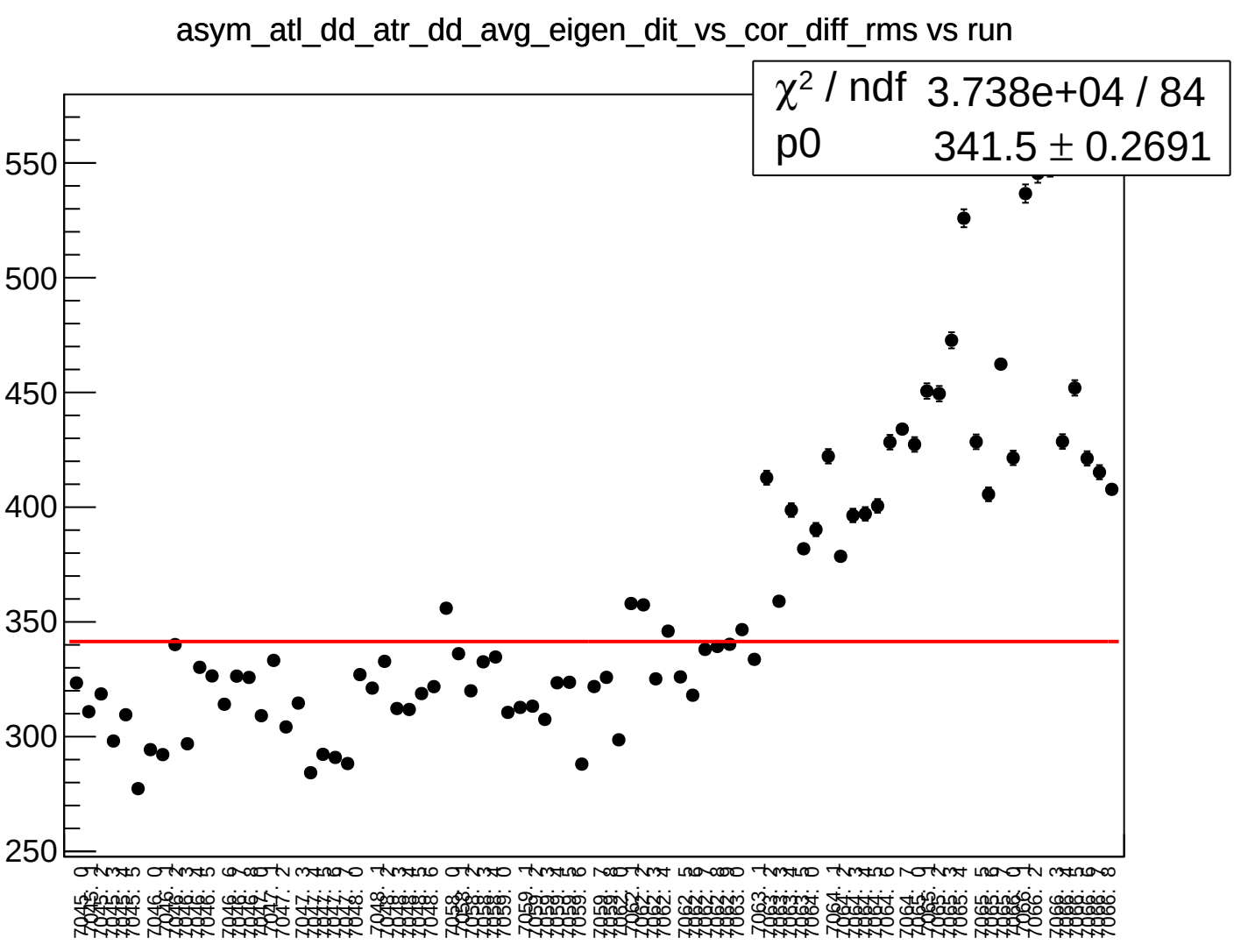

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.27 / 84
p0 −1.427e−06 ± 5.044e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 93.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

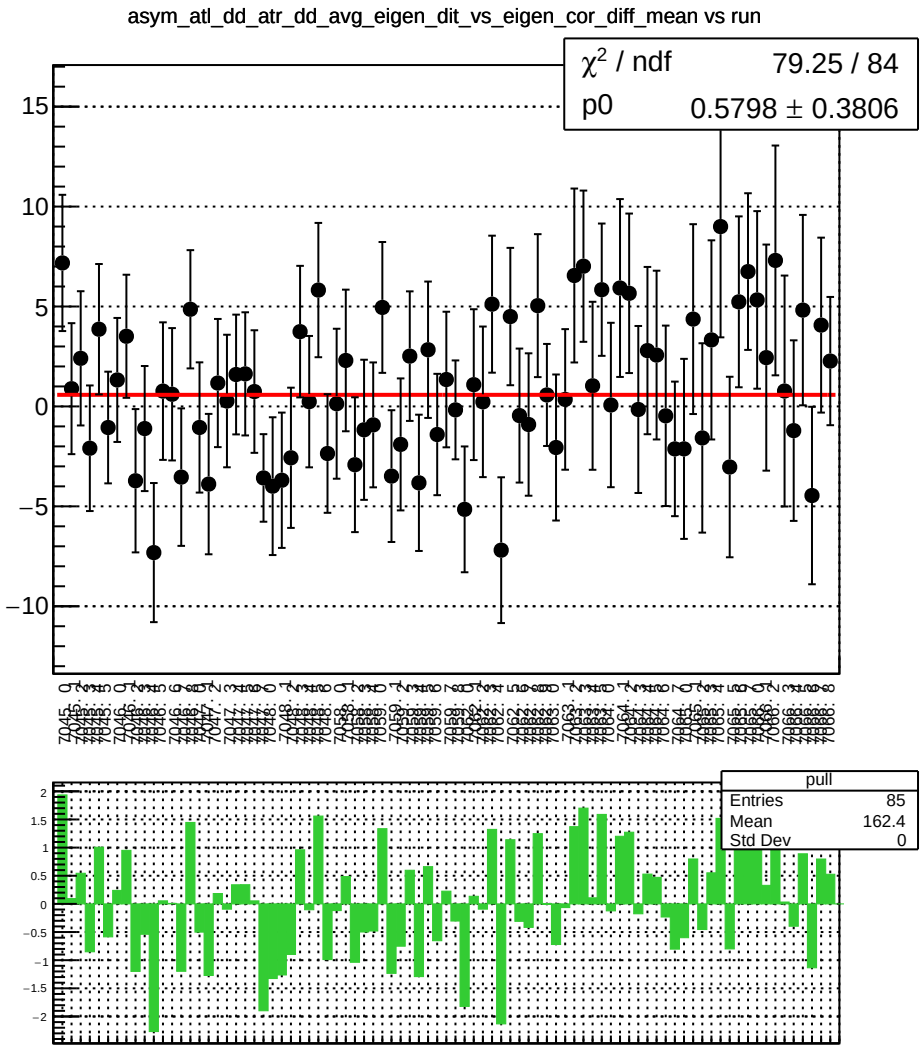

pull1D
Entries 85
Mean 0.1255
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

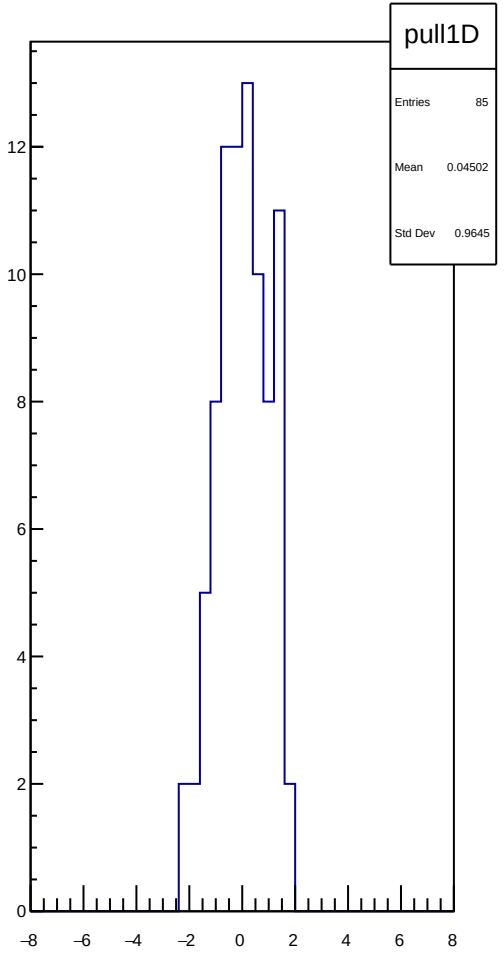

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.43e+05 / 84
p0 0.003574 ± 3.567e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

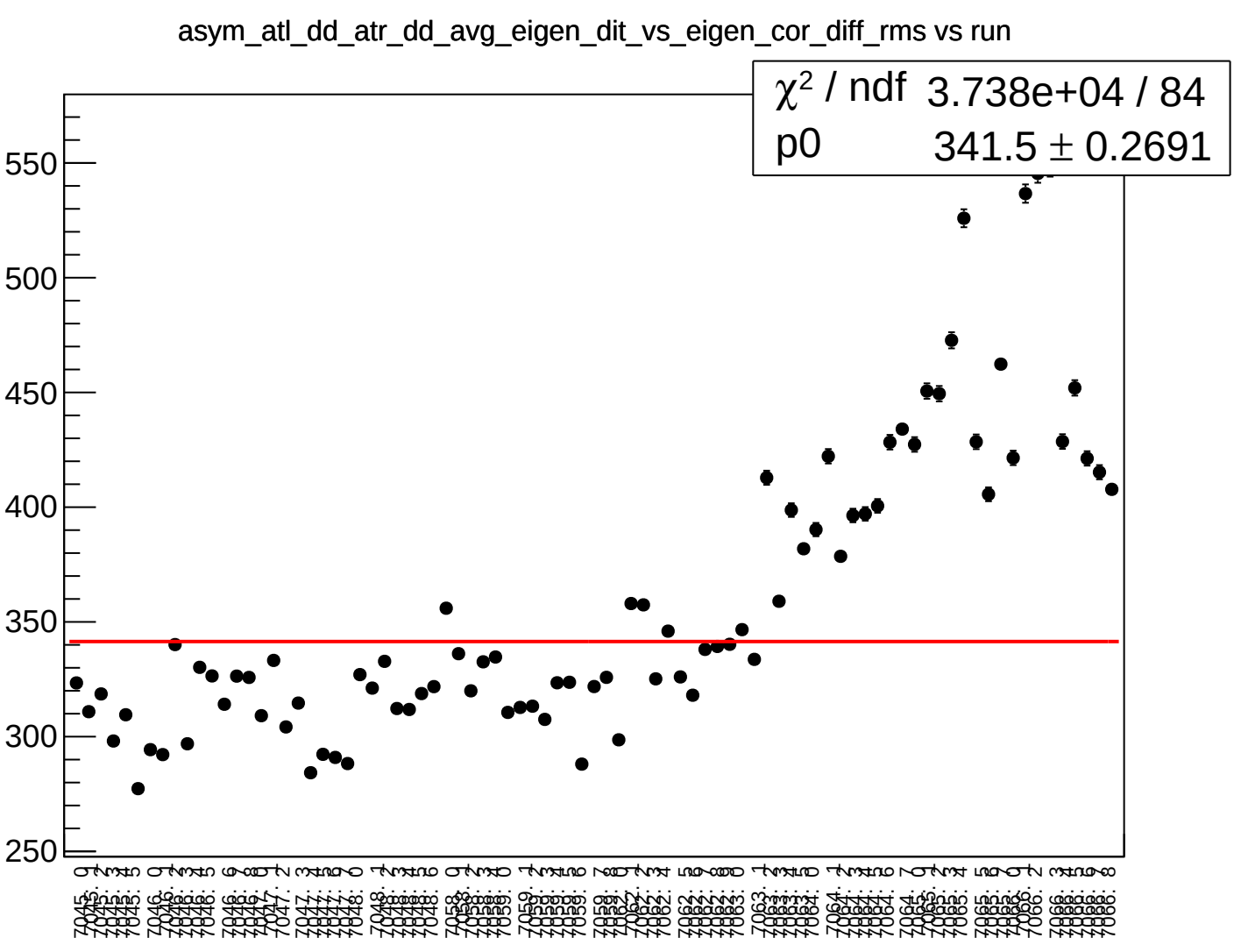

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

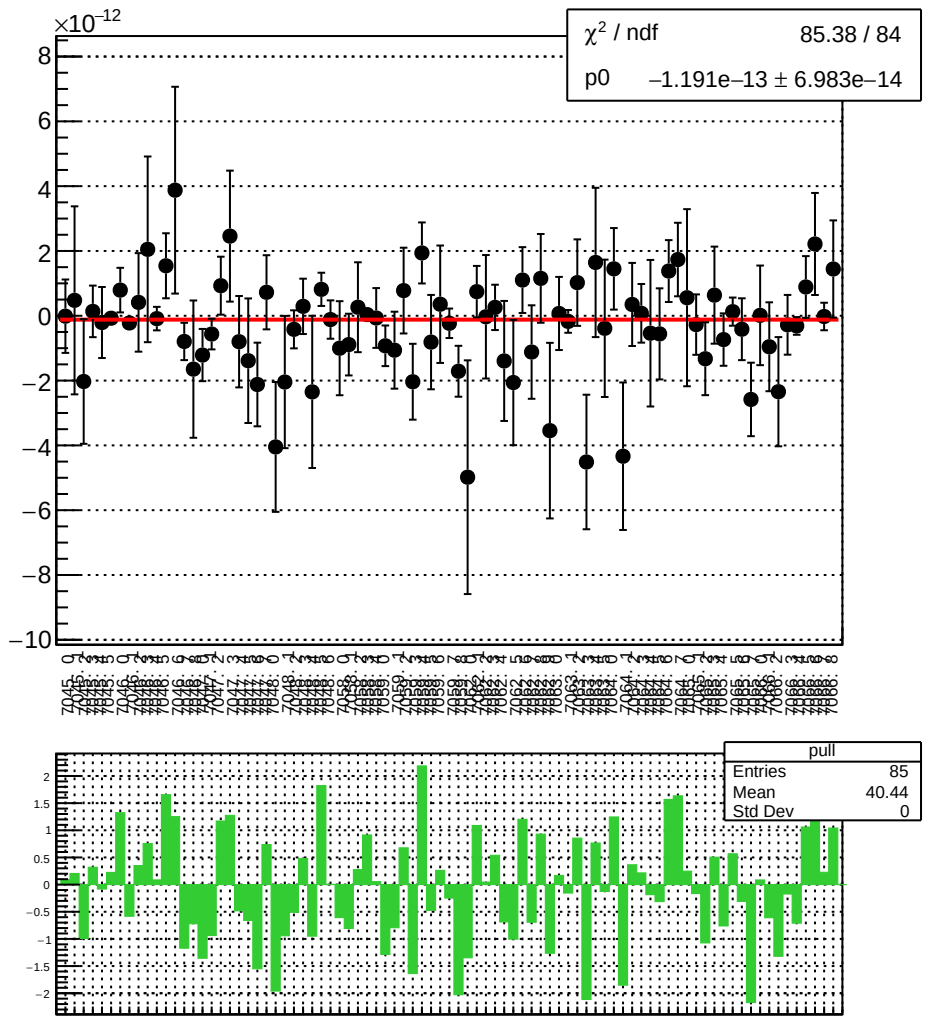

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

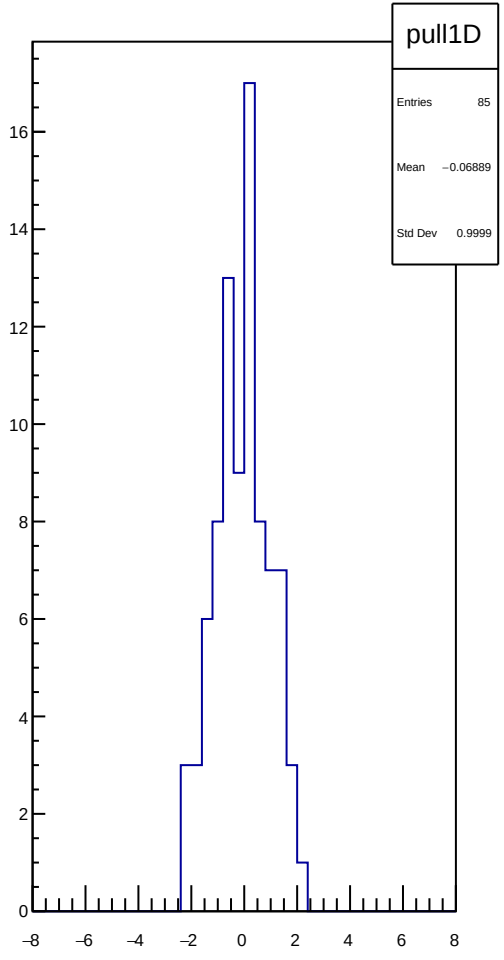

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.738e+04 / 84
p0 341.5 ± 0.2691
550
500
450
400
350
300
250

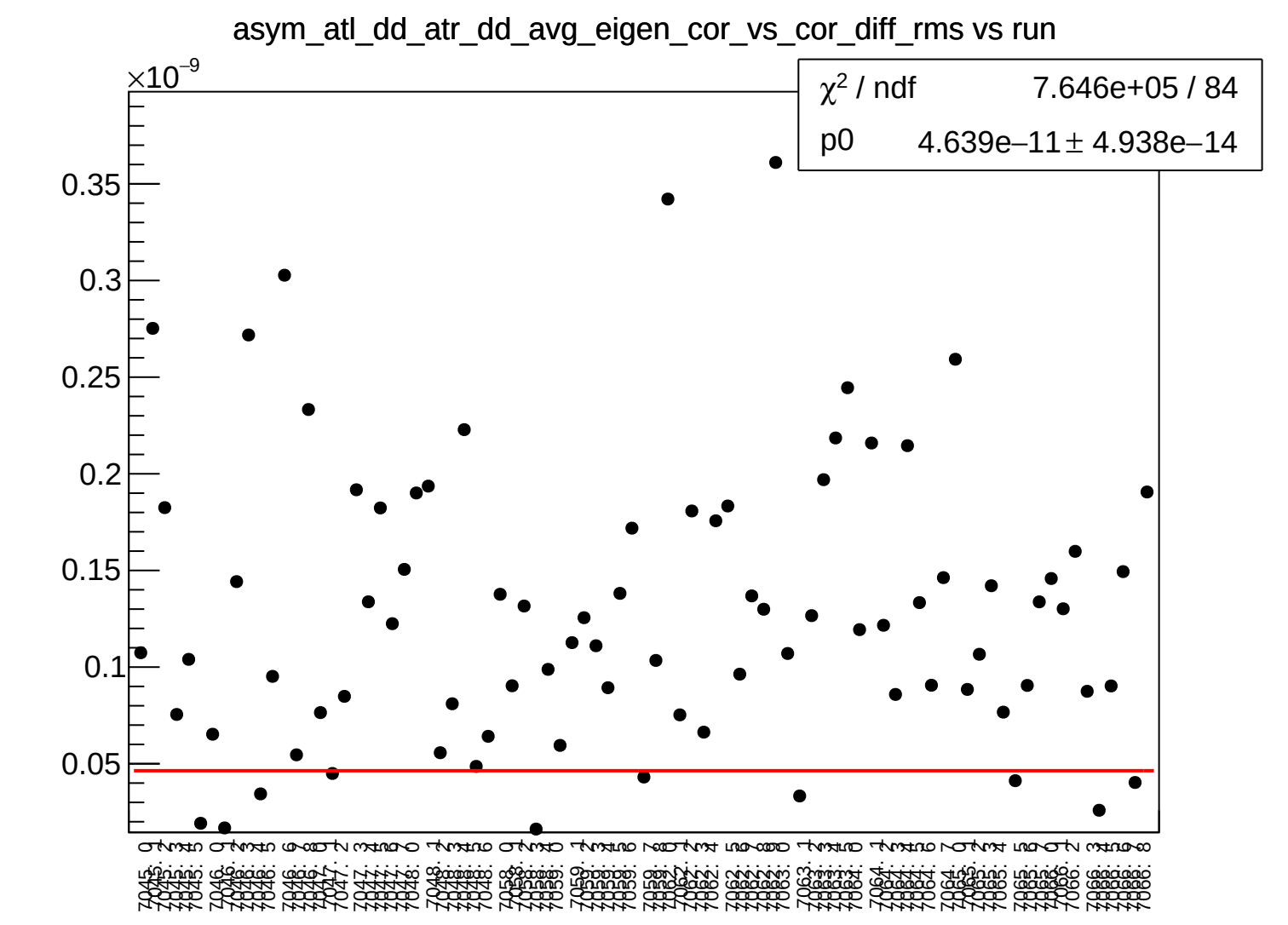

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

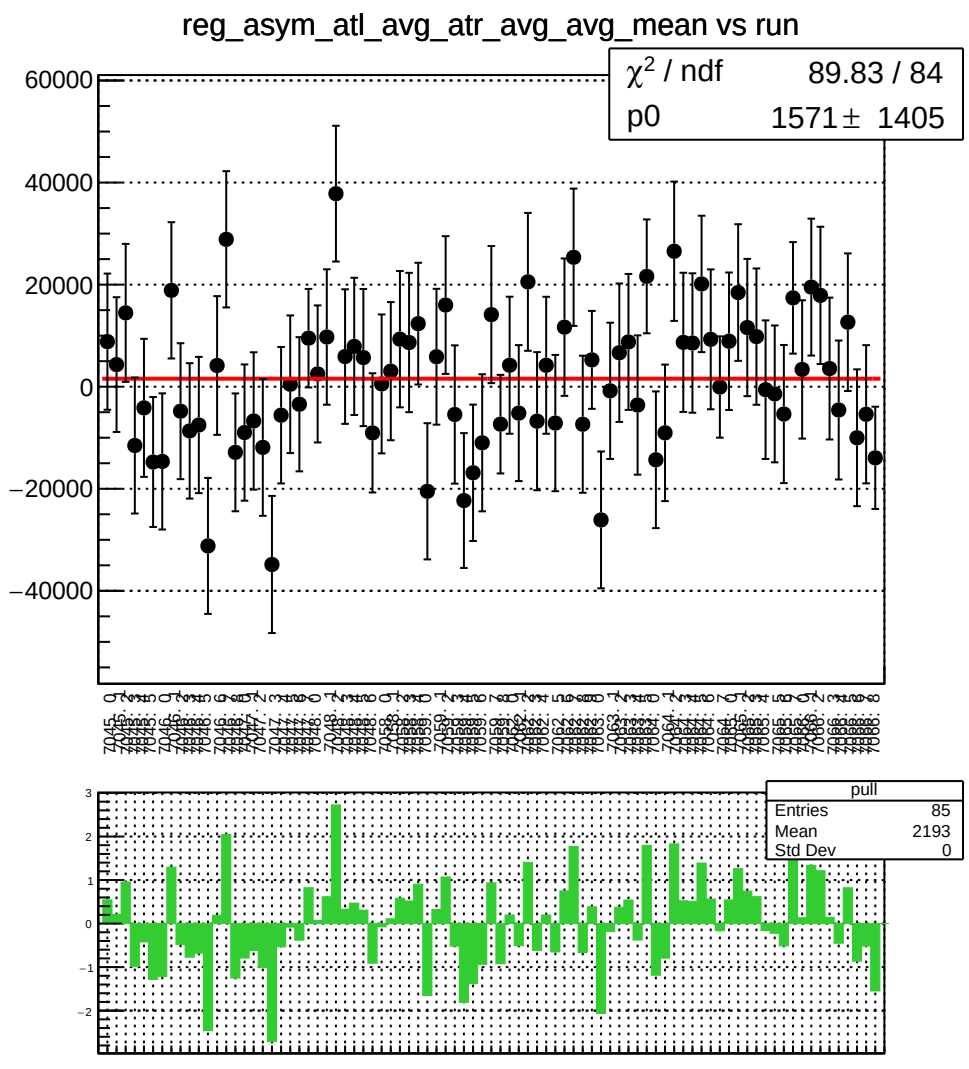

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

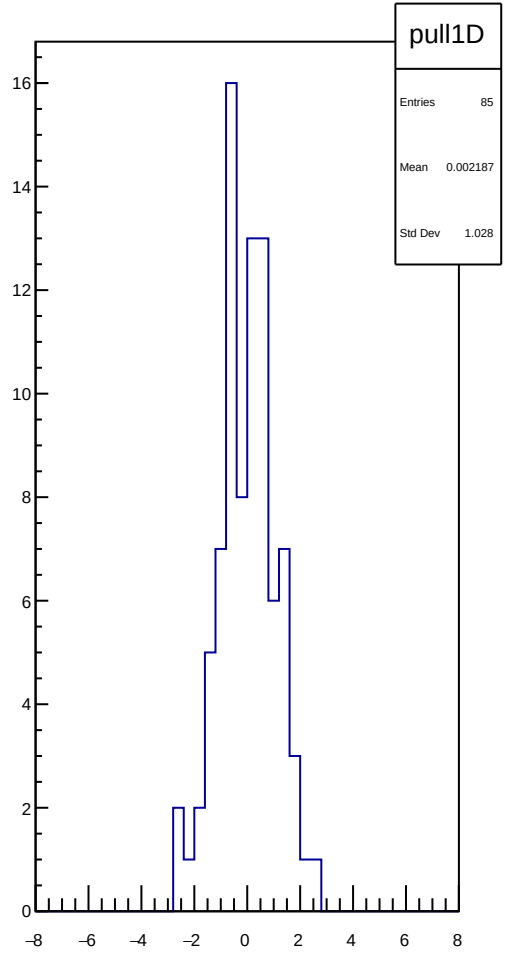

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.738e+04 / 84
p0 341.5 ± 0.2691
550
500
450
400
350
300
250

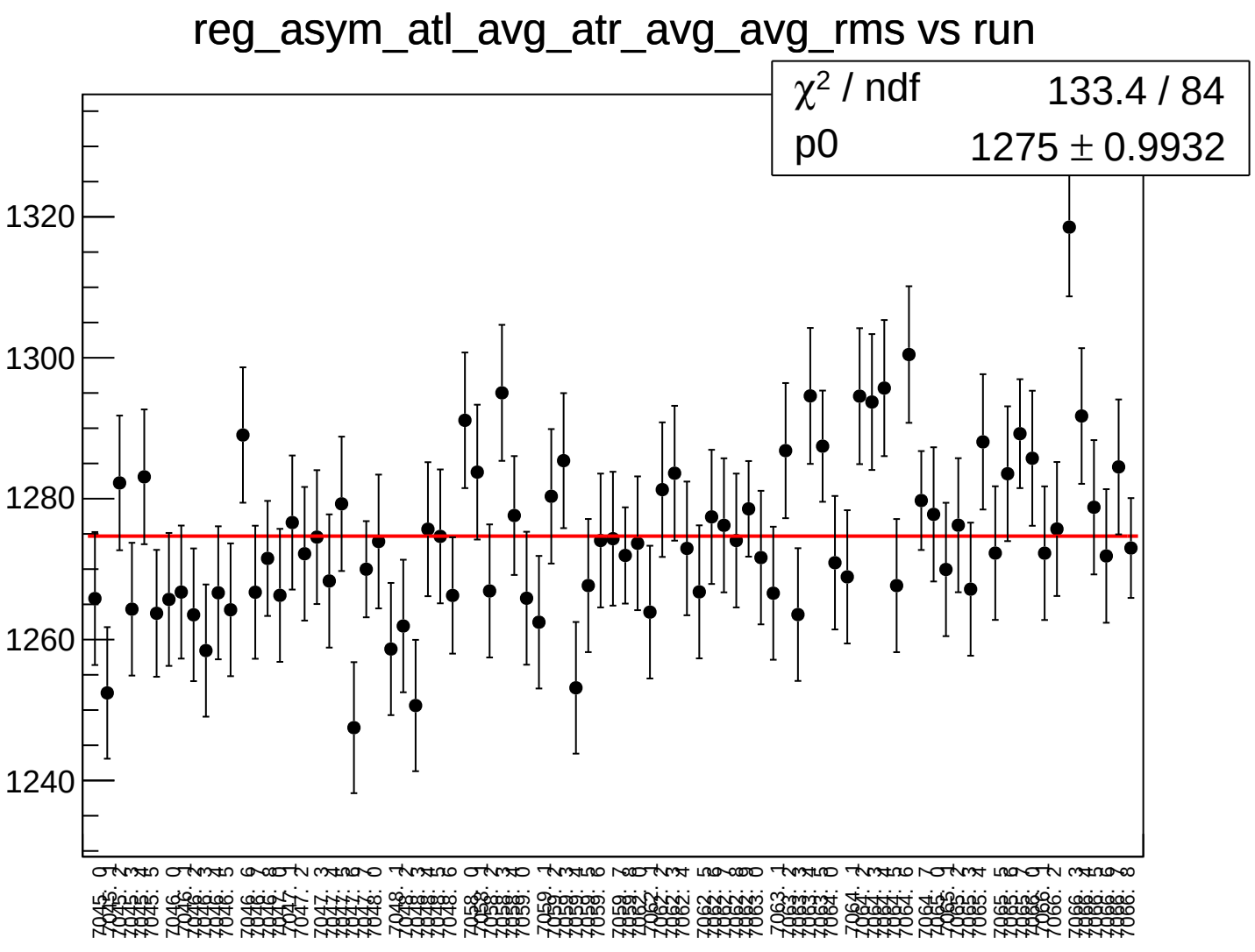

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.38 / 84
p0 −1.191e−13 ± 6.983e−14
pull
Entries 85
Mean 40.44
Std Dev 0

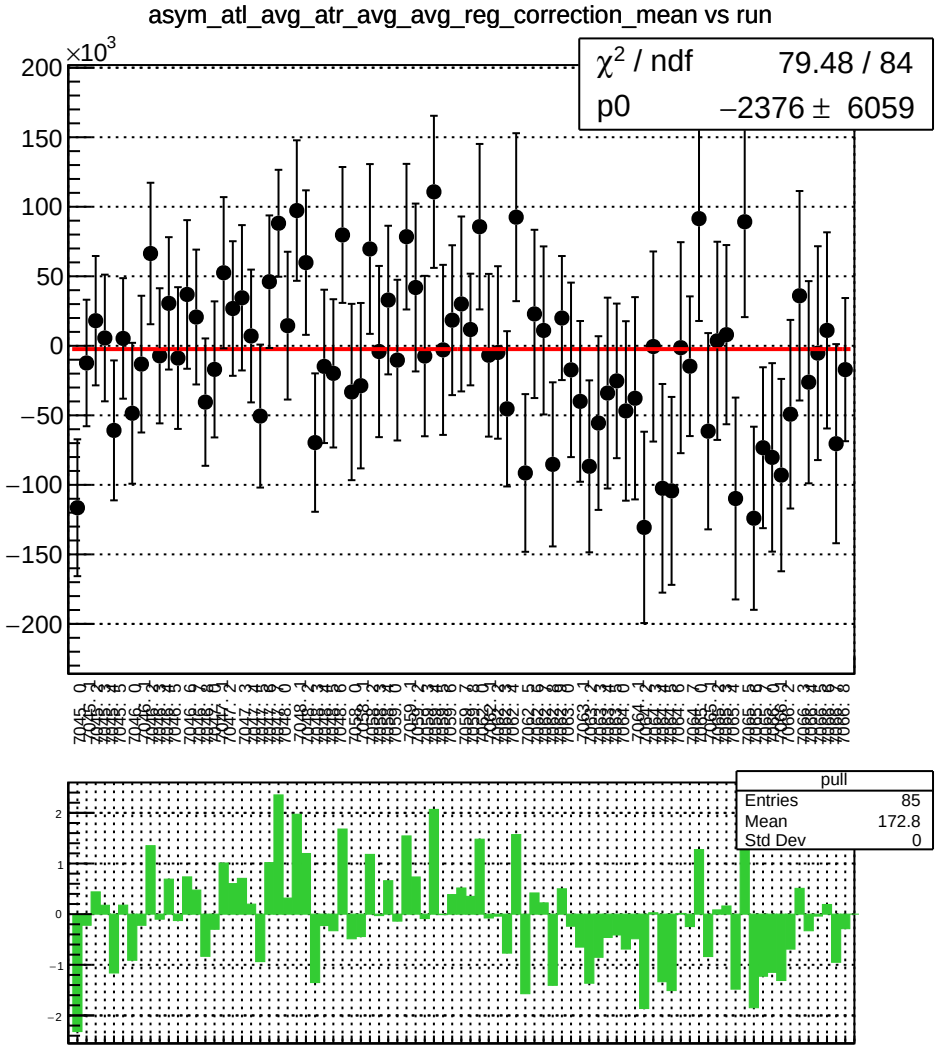

pull1D
Entries 85
Mean −0.06889
Std Dev 0.9999

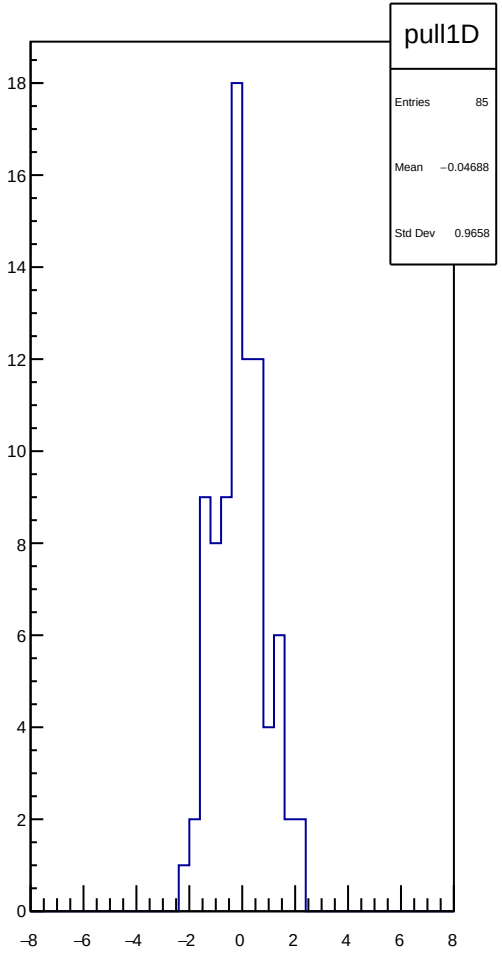

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.646e+05 / 84
p0 4.639e−11 ± 4.938e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

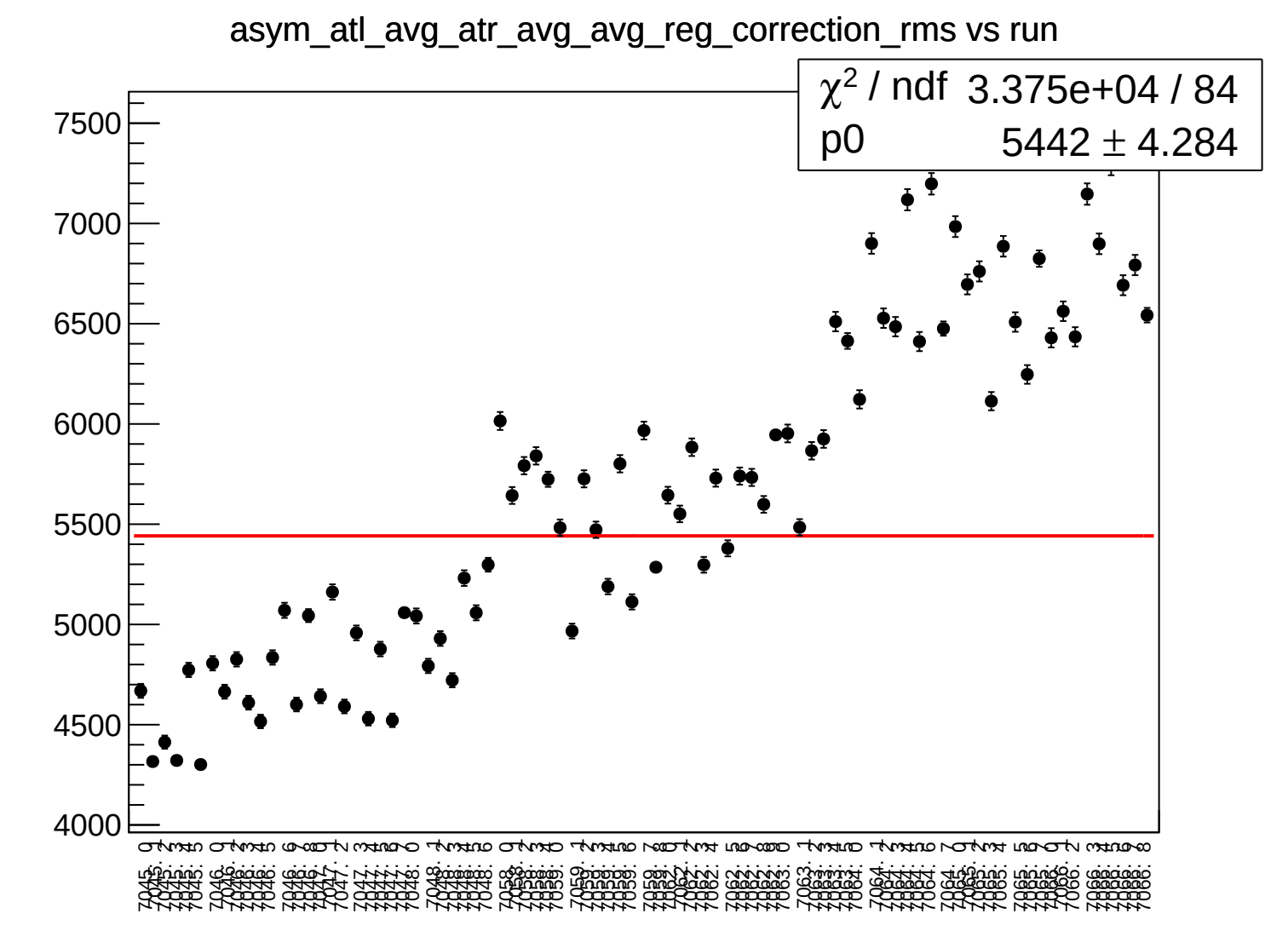

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 89.83 / 84
p0 1571 ± 1405
pull
Entries 85
Mean 2193
Std Dev 0

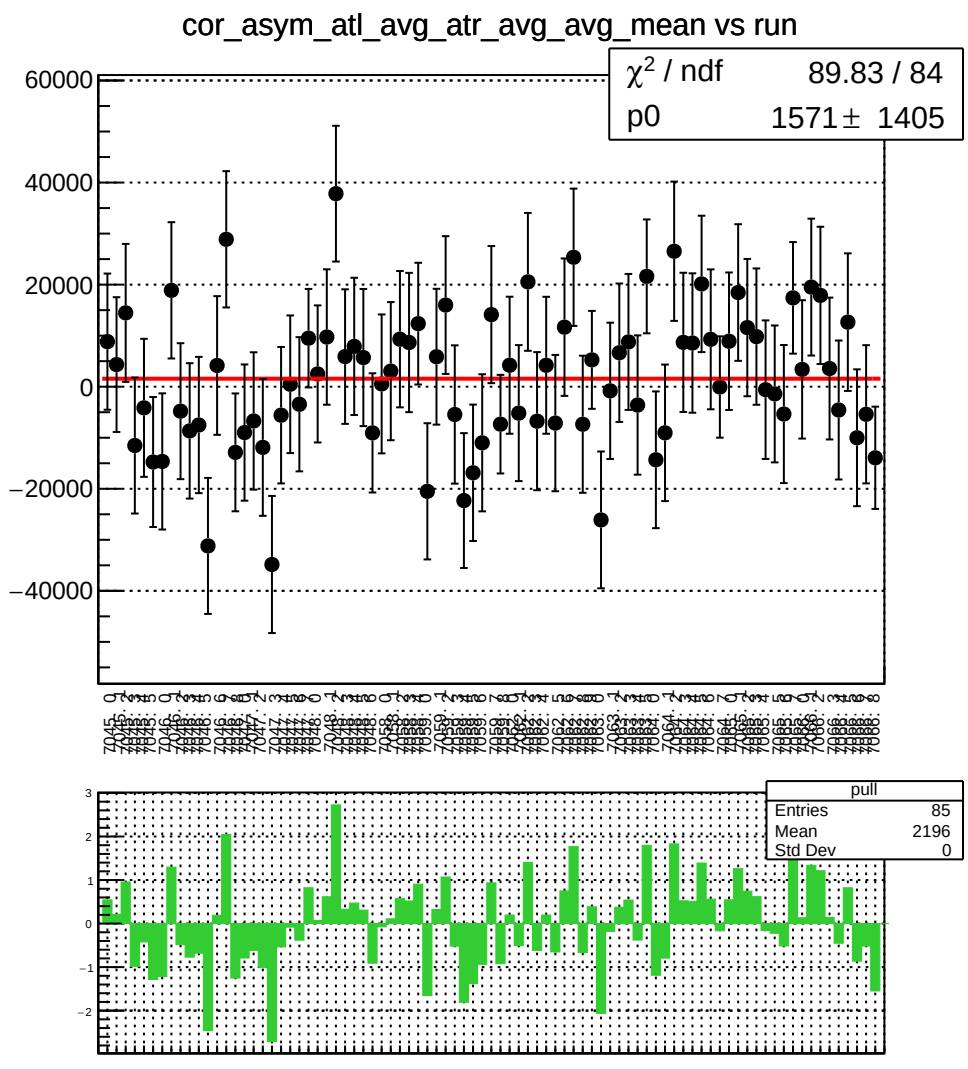

pull1D
Entries 85
Mean 0.002187
Std Dev 1.028

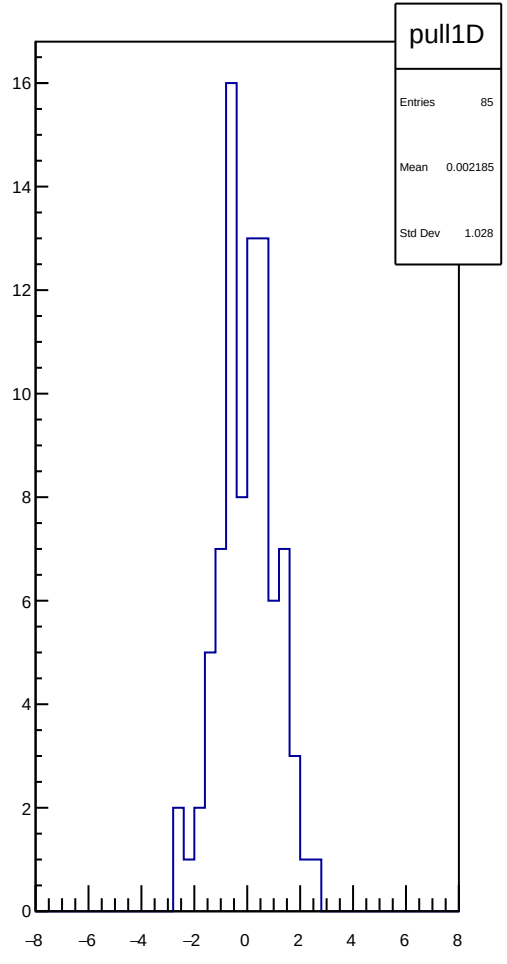

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 133.4 / 84
p0 1275 ± 0.9932
1320
1300
1280
1260
1240

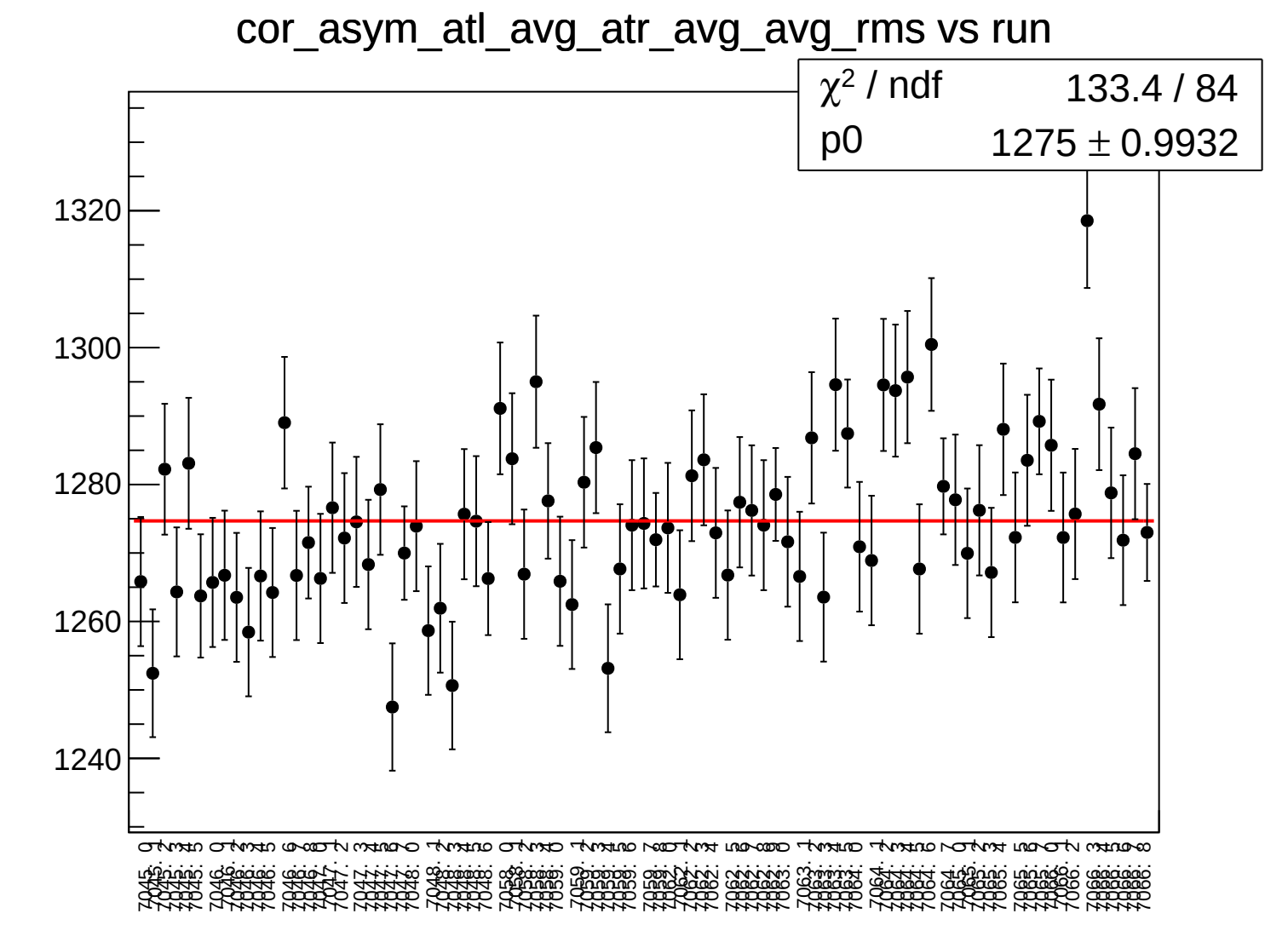

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.48 / 84
p0 −2376 ± 6059
pull
Entries 85
Mean 172.8
Std Dev 0

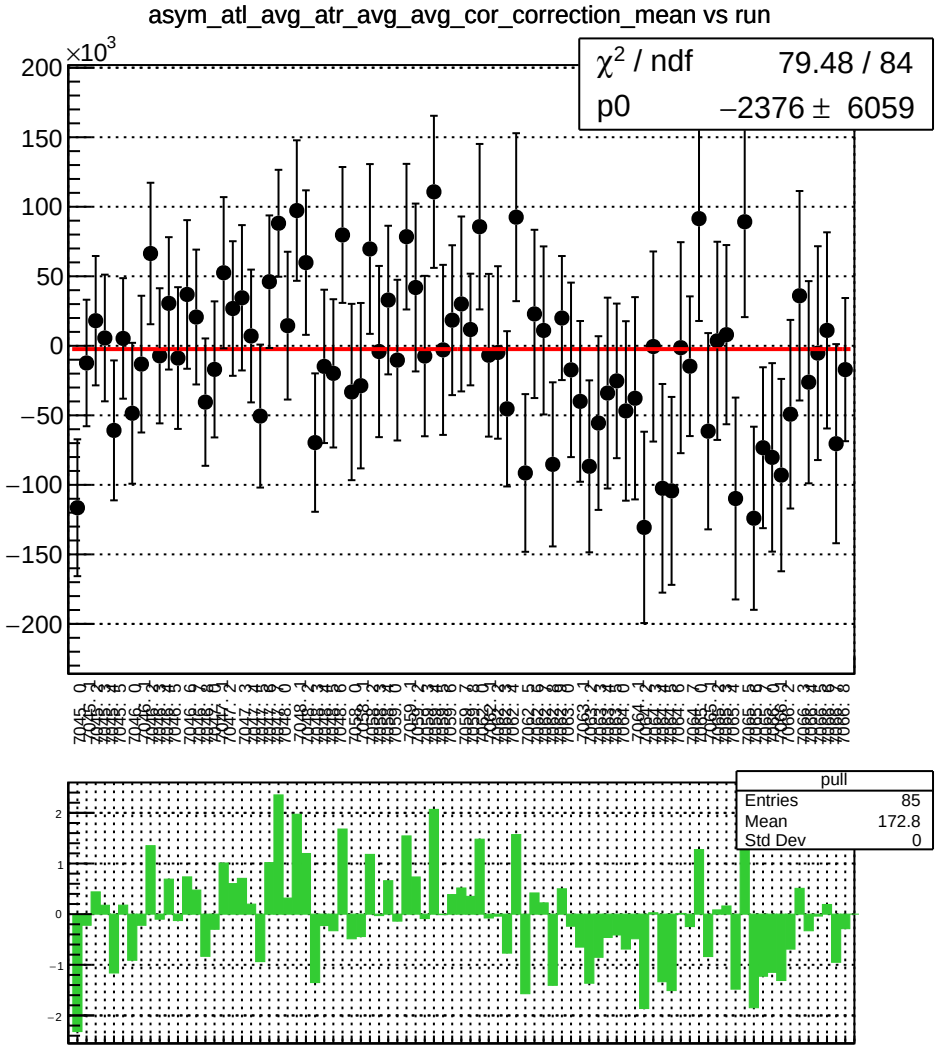

pull1D
Entries 85
Mean −0.04688
Std Dev 0.9658

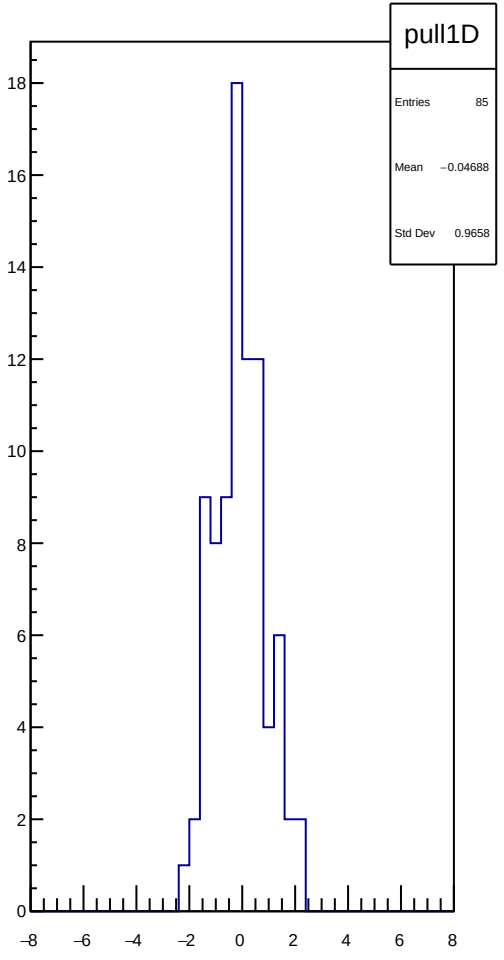

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 3.375e+04 / 84
p0 5442 ± 4.284
7500
7000
6500
6000
5500
5000
4500
4000

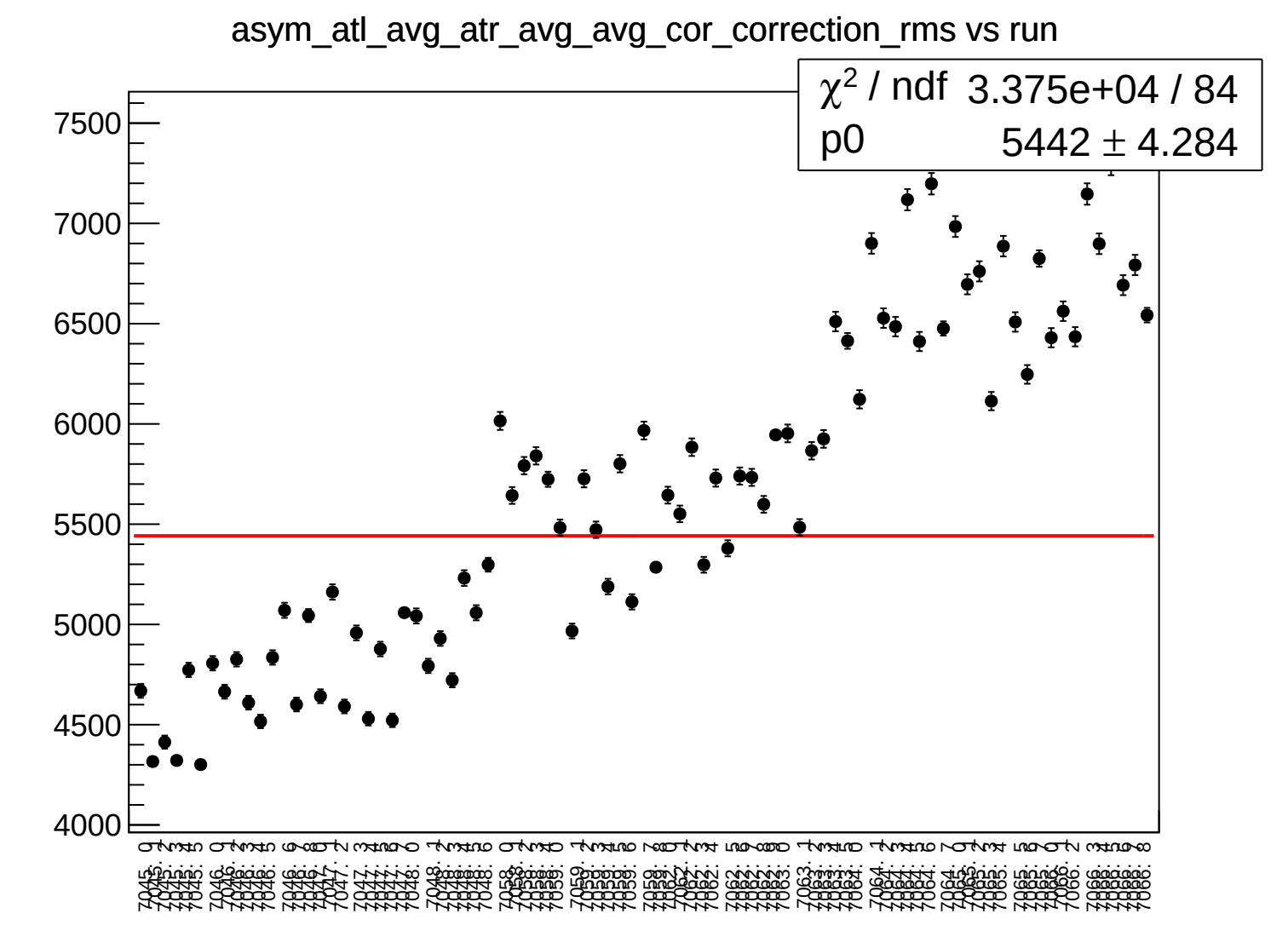

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 89.83 / 84
p0 1571 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 2196
Std Dev 0
3
2
1
0
−1
−2

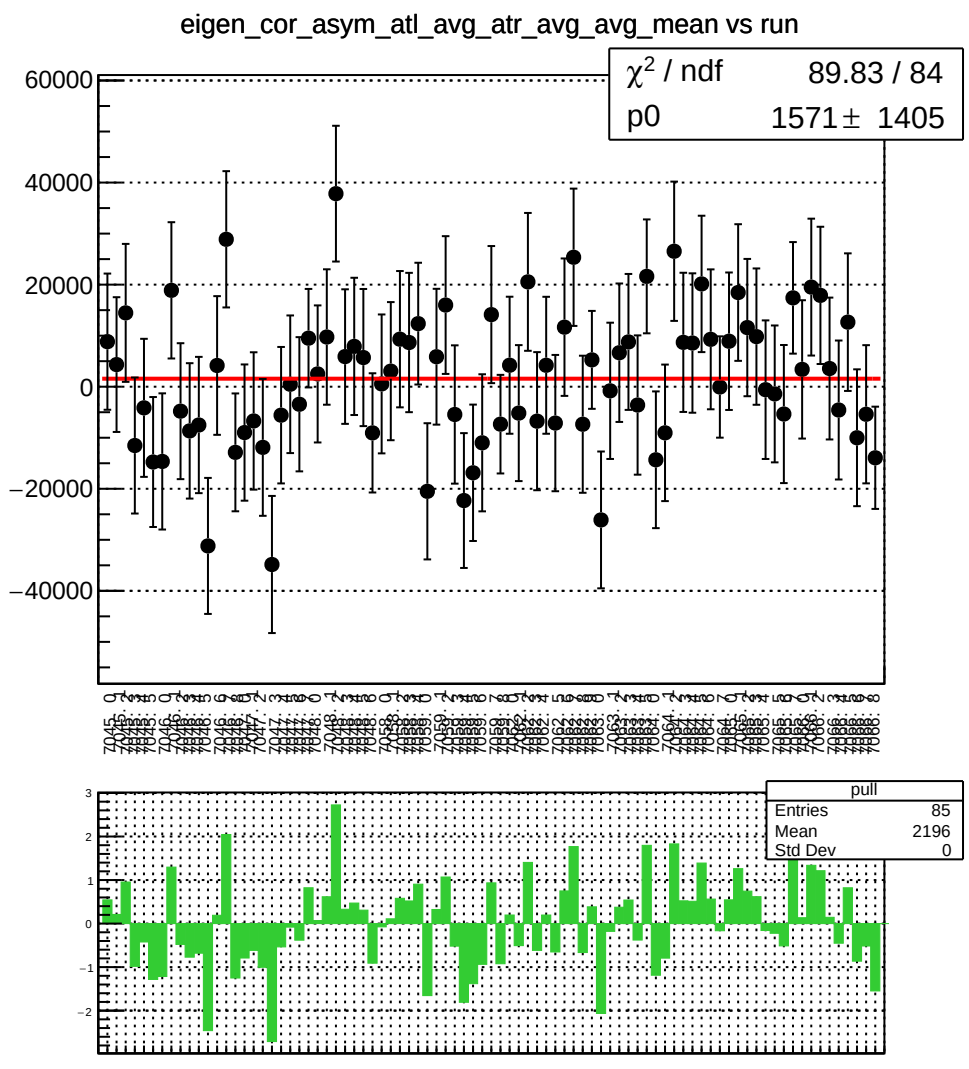

pull1D
Entries 85
Mean 0.002185
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

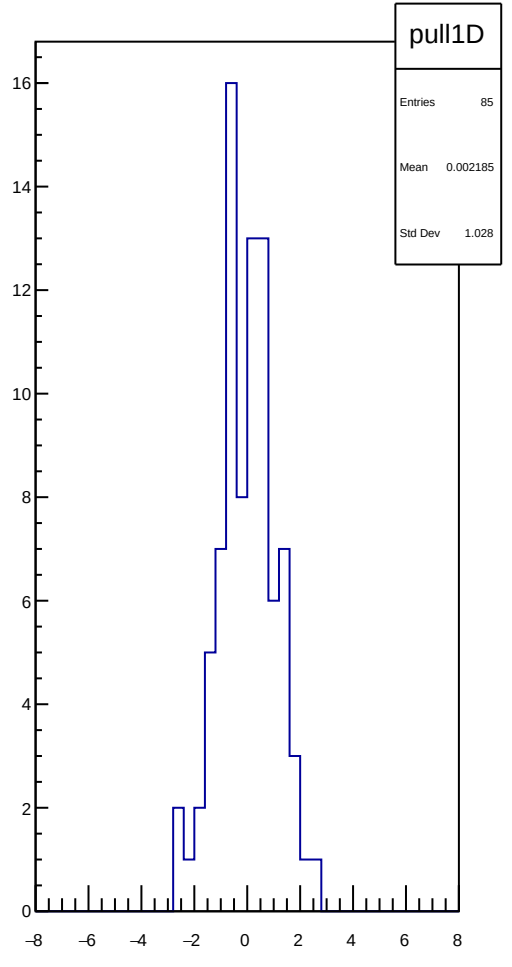

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 133.4 / 84
p0 1275 ± 0.9932
1320
1300
1280
1260
1240

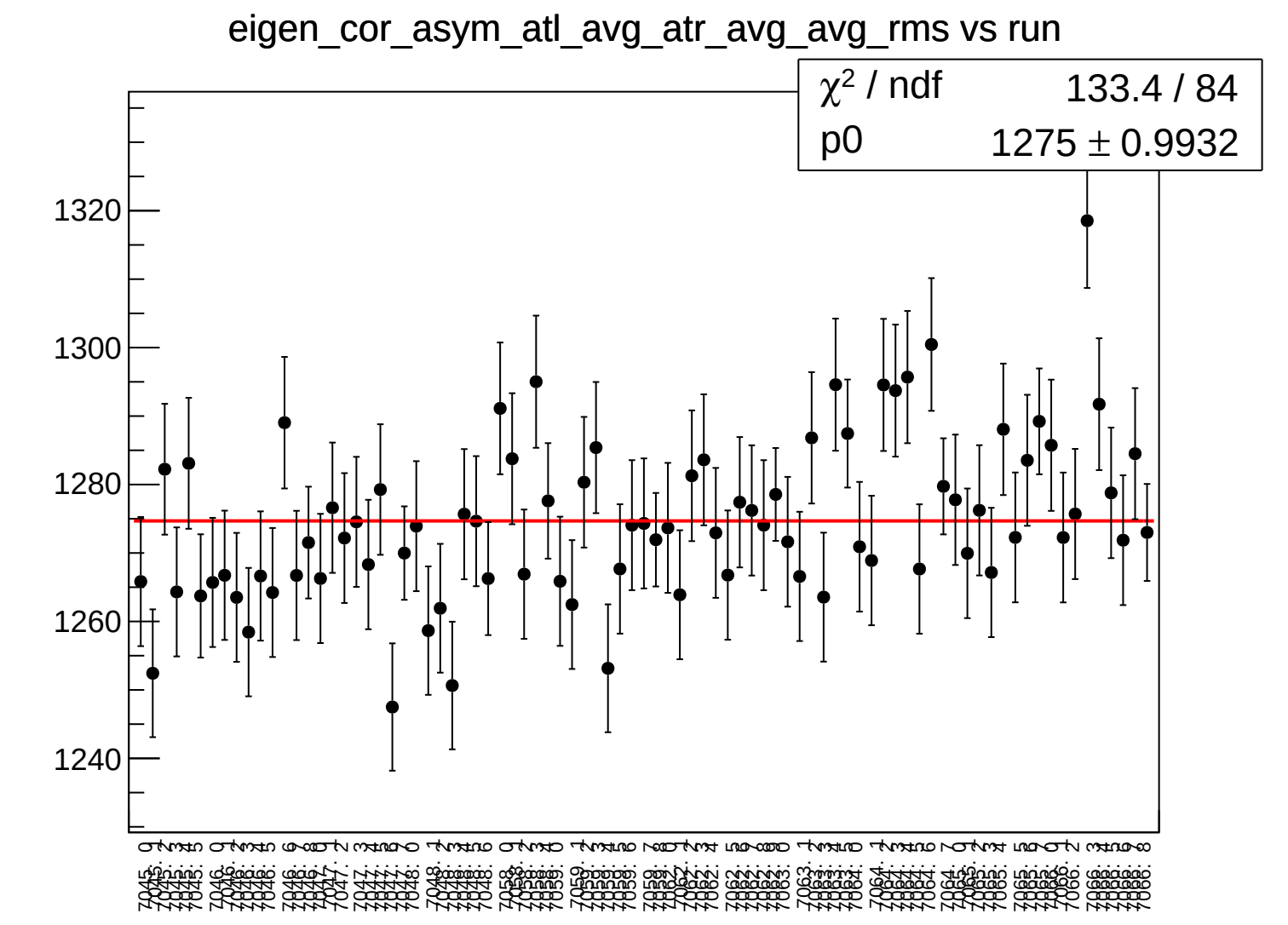

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 79.48 / 84
p0 −2376 ± 6059
pull
Entries 85
Mean 172.8
Std Dev 0

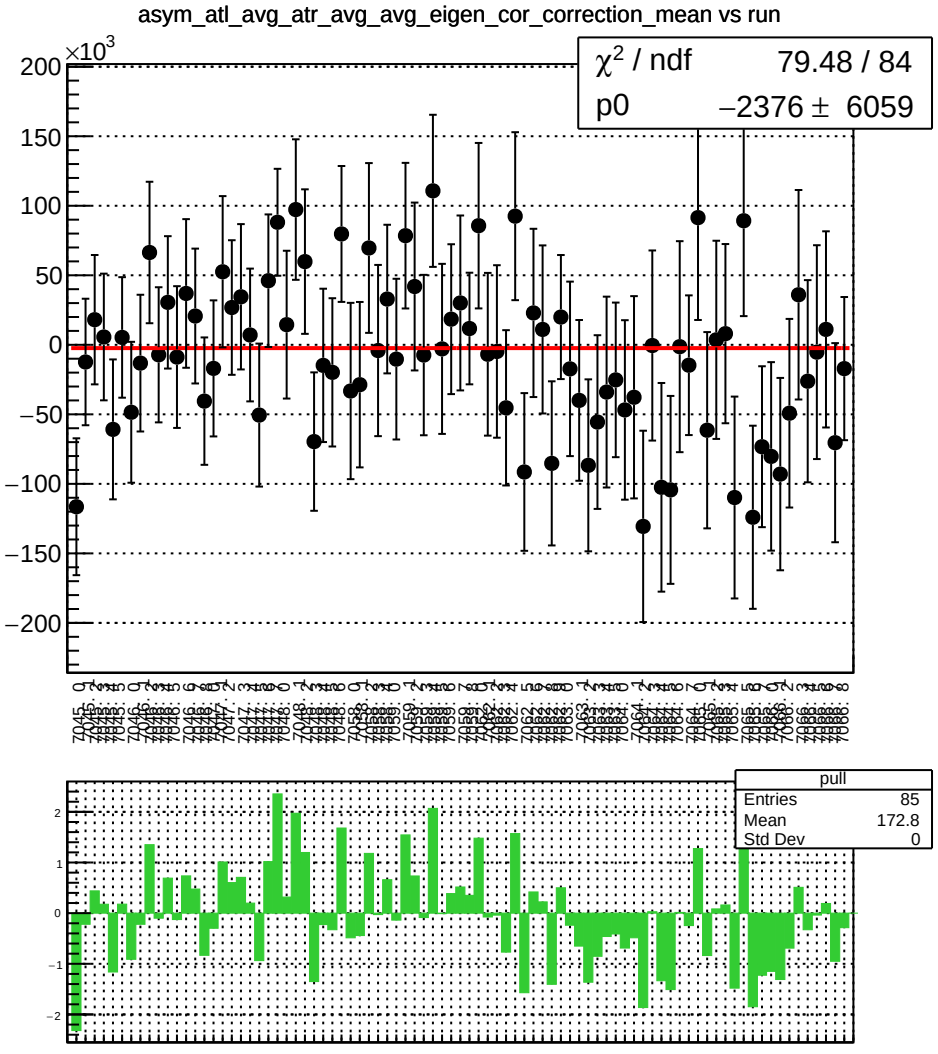

pull1D
Entries 85
Mean −0.04688
Std Dev 0.9658

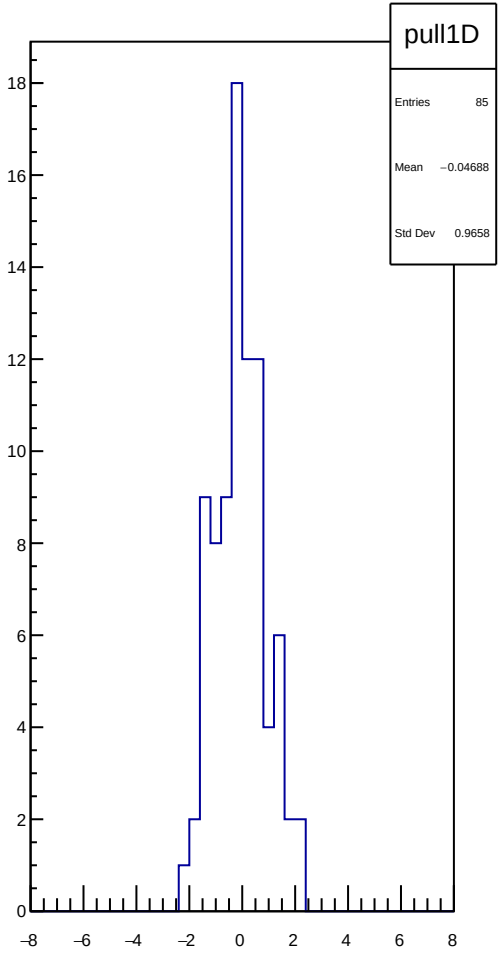

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 3.375e+04 / 84
p0 5442 ± 4.284
7500
7000
6500
6000
5500
5000
4500
4000

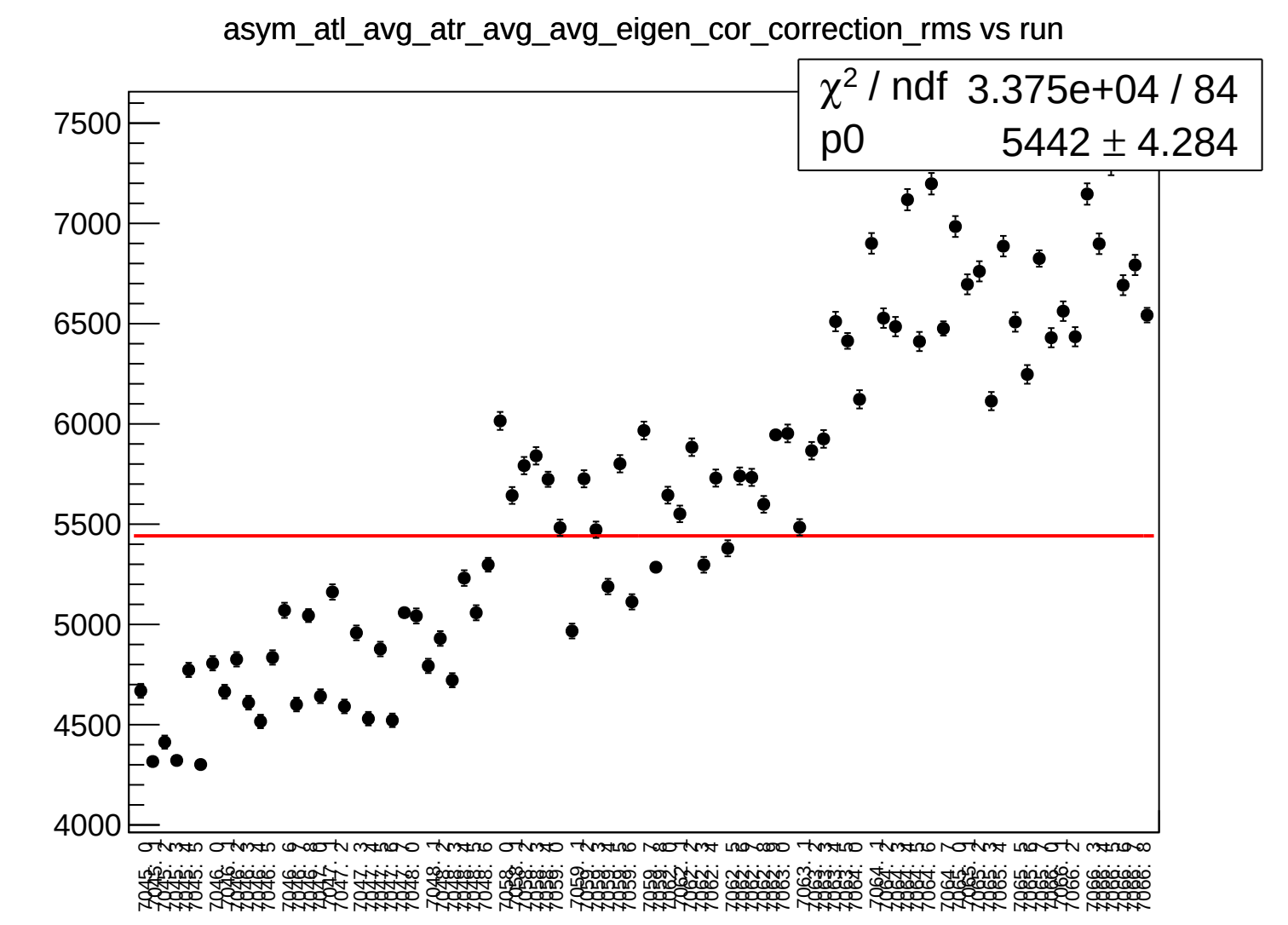

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 89.83 / 84
p0 1571 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 2196
Std Dev 0
3
2
1
0
−1
−2

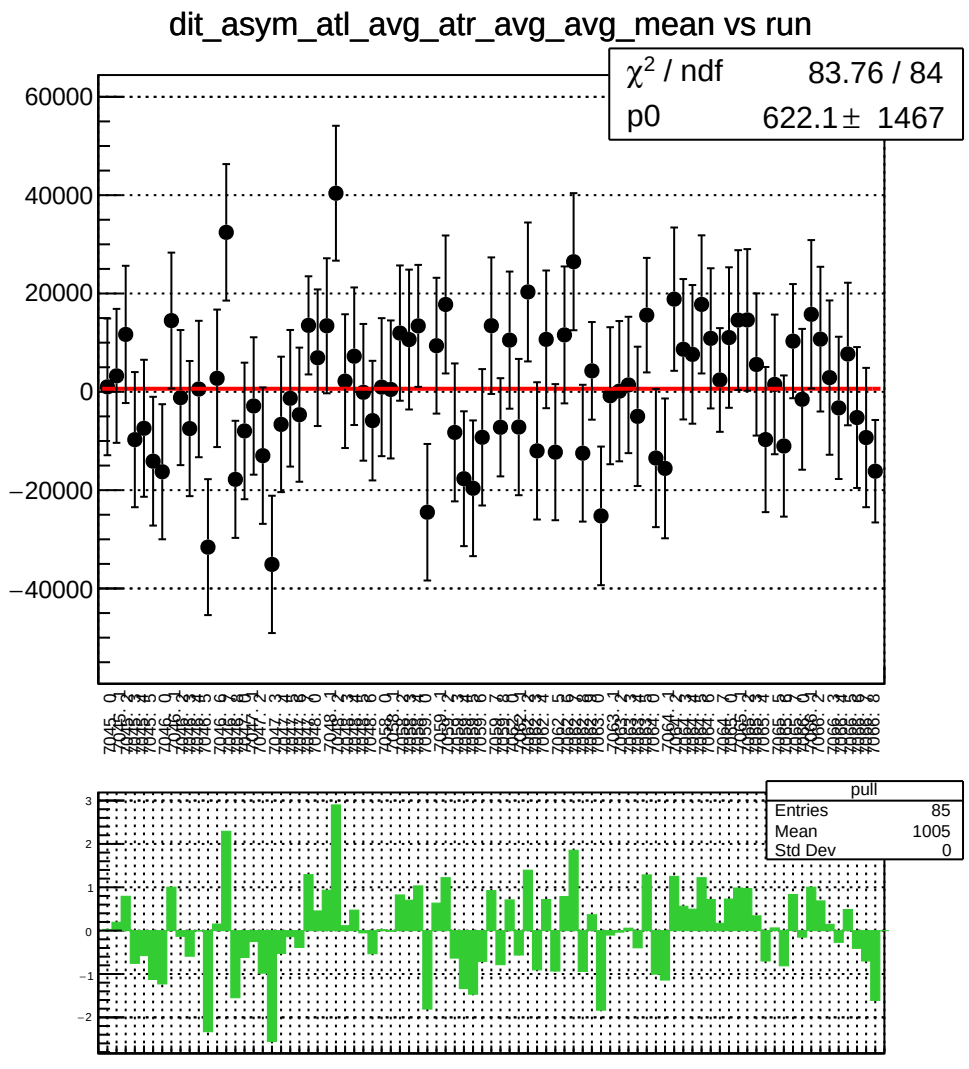

pull1D
Entries 85
Mean 0.002185
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

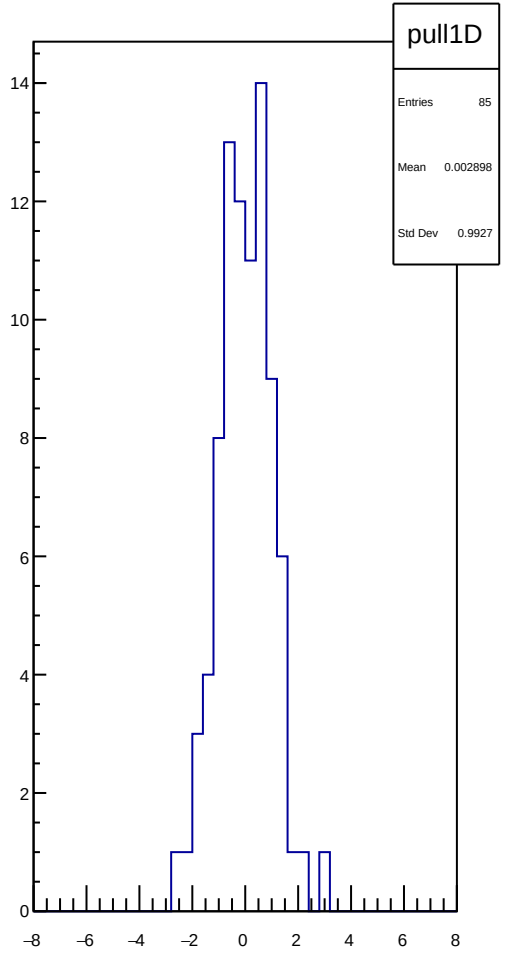

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 133.4 / 84
p0 1275 ± 0.9932
1320
1300
1280
1260
1240

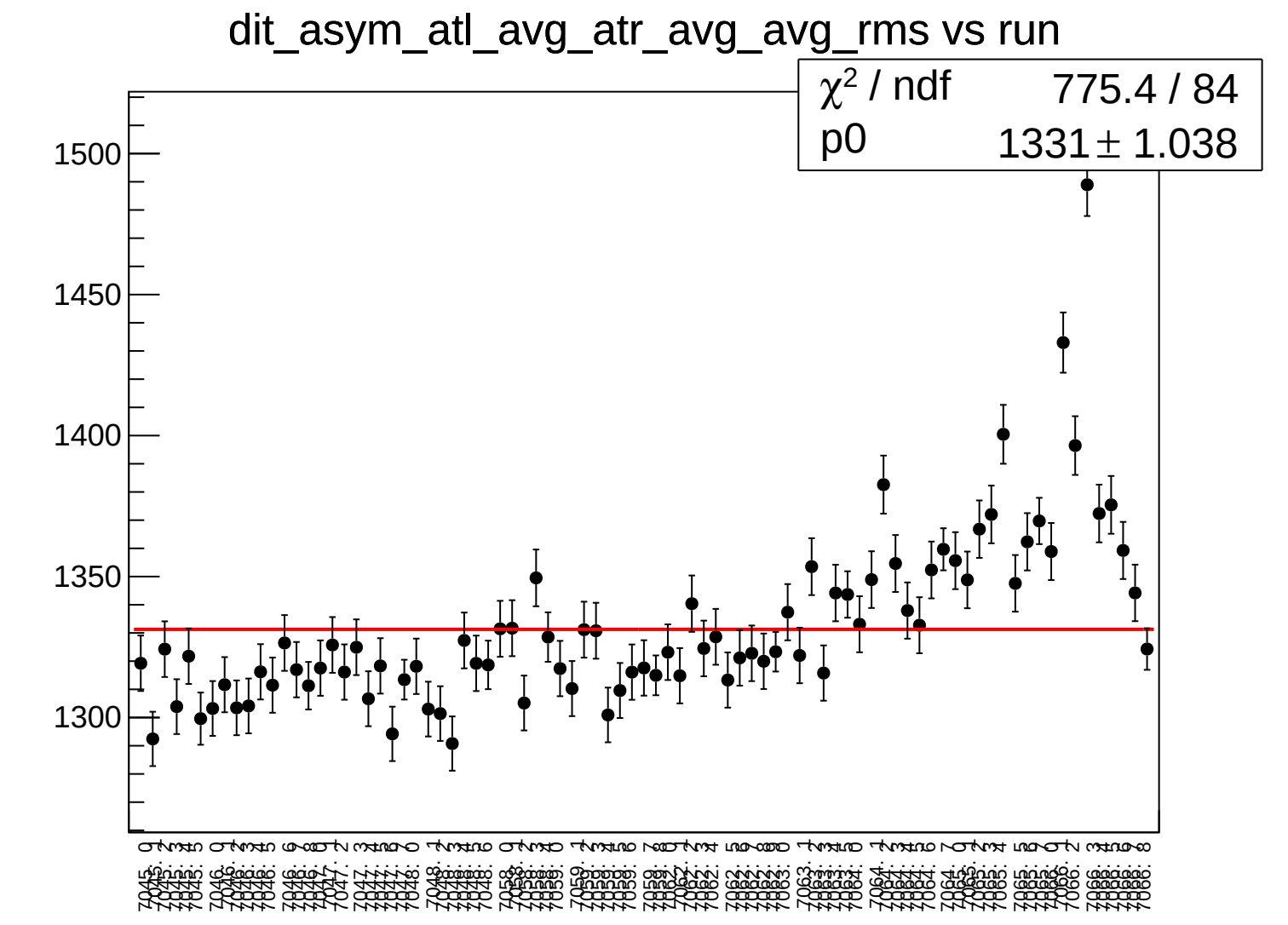

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.48 / 84
p0 −2376 ± 6059
pull
Entries 85
Mean 172.8
Std Dev 0

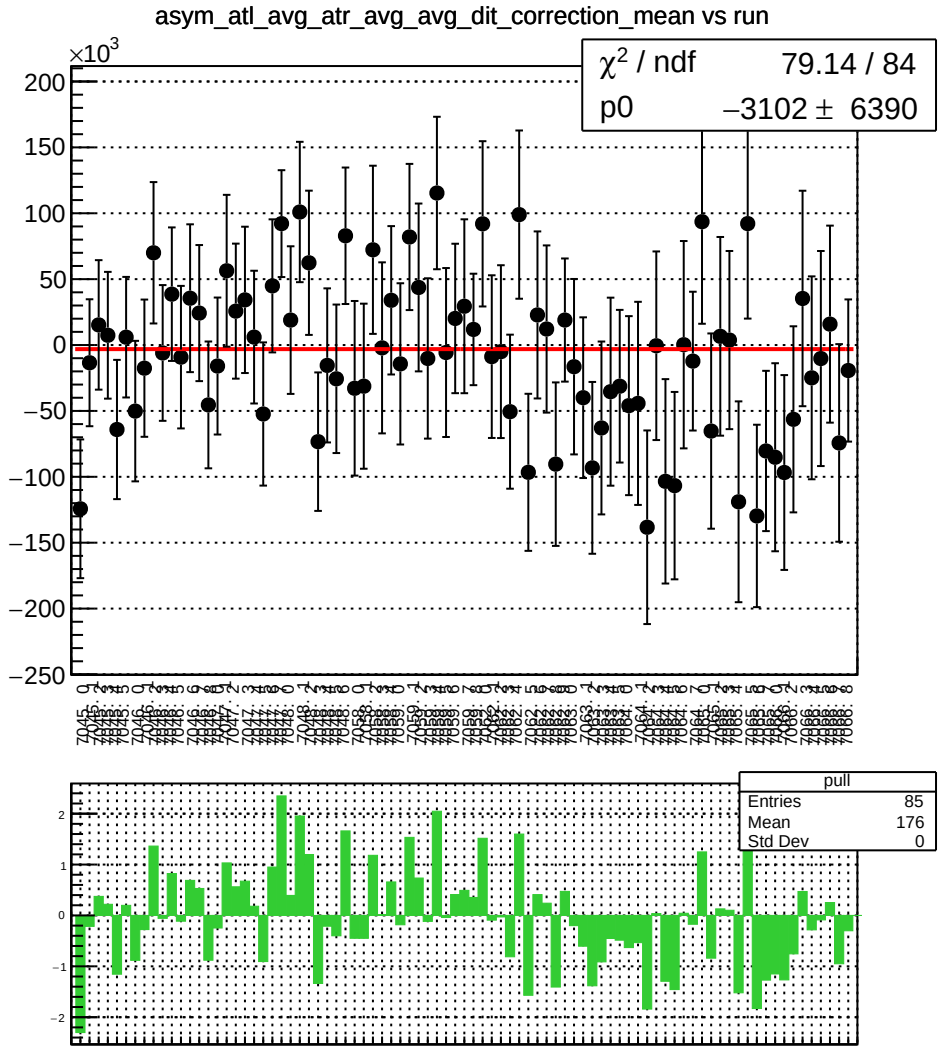

pull1D
Entries 85
Mean −0.04688
Std Dev 0.9658

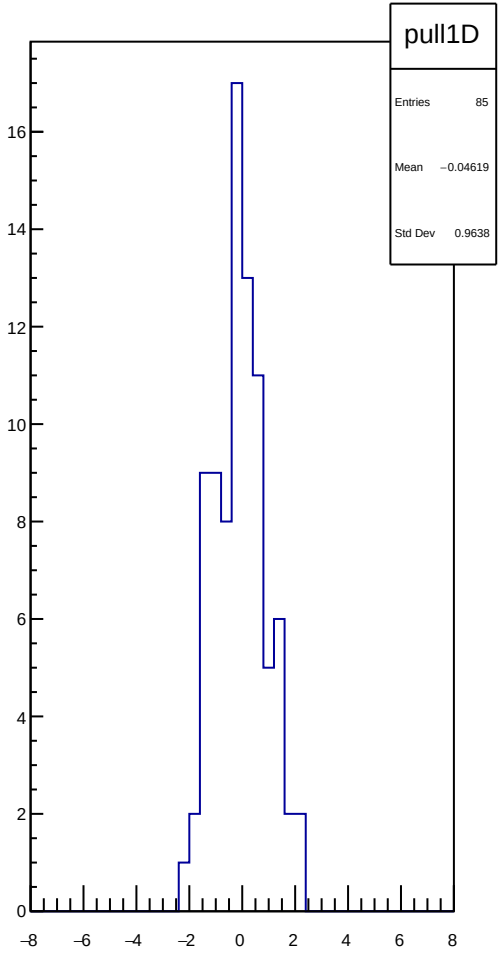

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.375e+04 / 84
p0 5442 ± 4.284
7500
7000
6500
6000
5500
5000
4500
4000

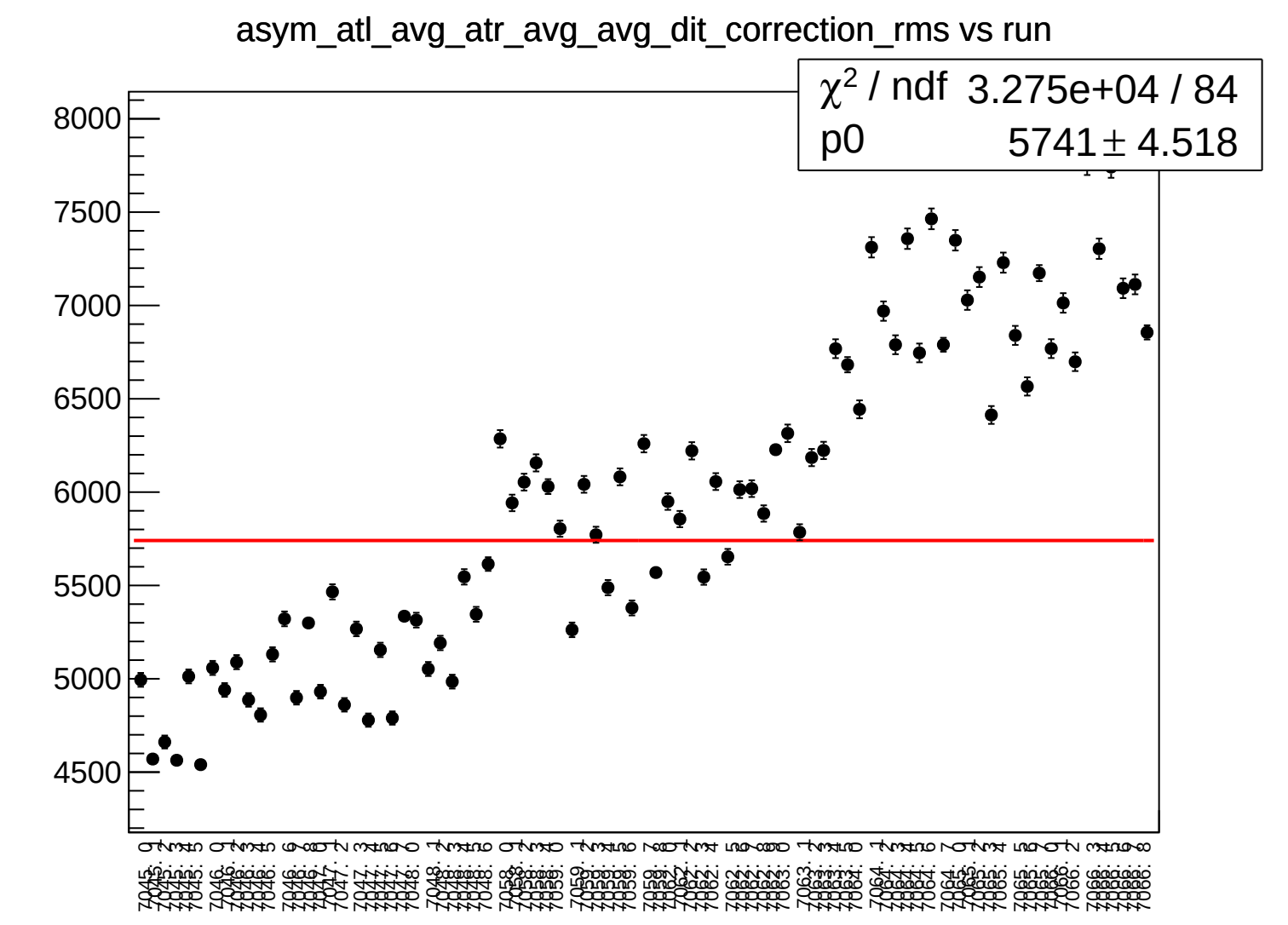

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.76 / 84
p0 622.1 ± 1467
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 1005
Std Dev 0
3
2
1
0
−1
−2

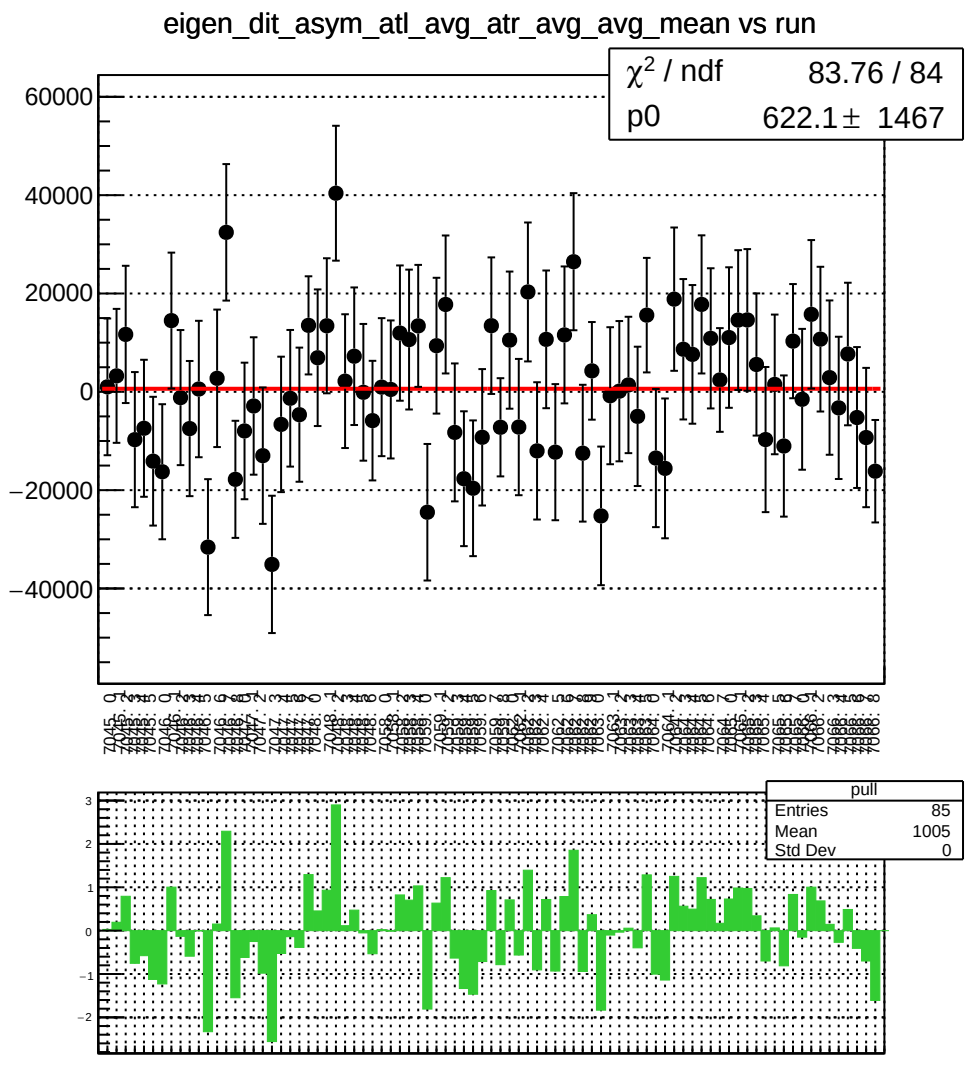

pull1D
Entries 85
Mean 0.002898
Std Dev 0.9927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

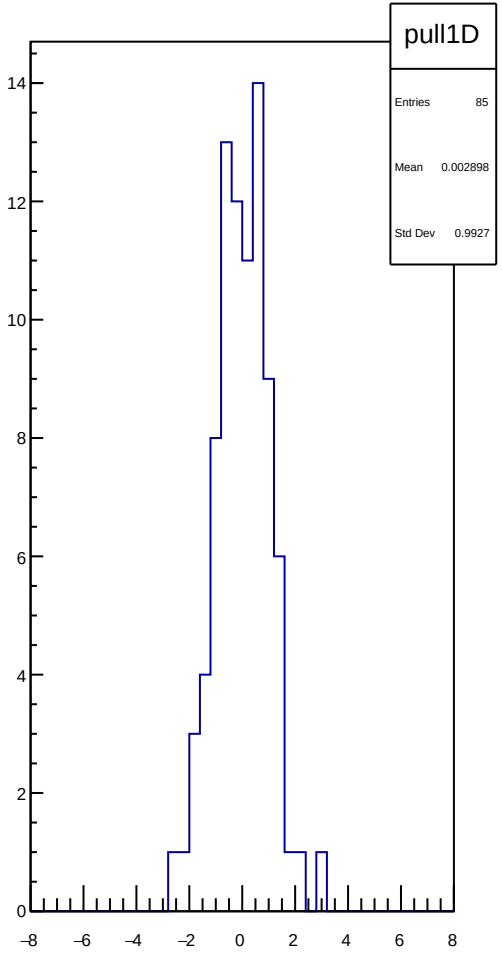

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 775.4 / 84
p0 1331 ± 1.038
1500
1450
1400
1350
1300

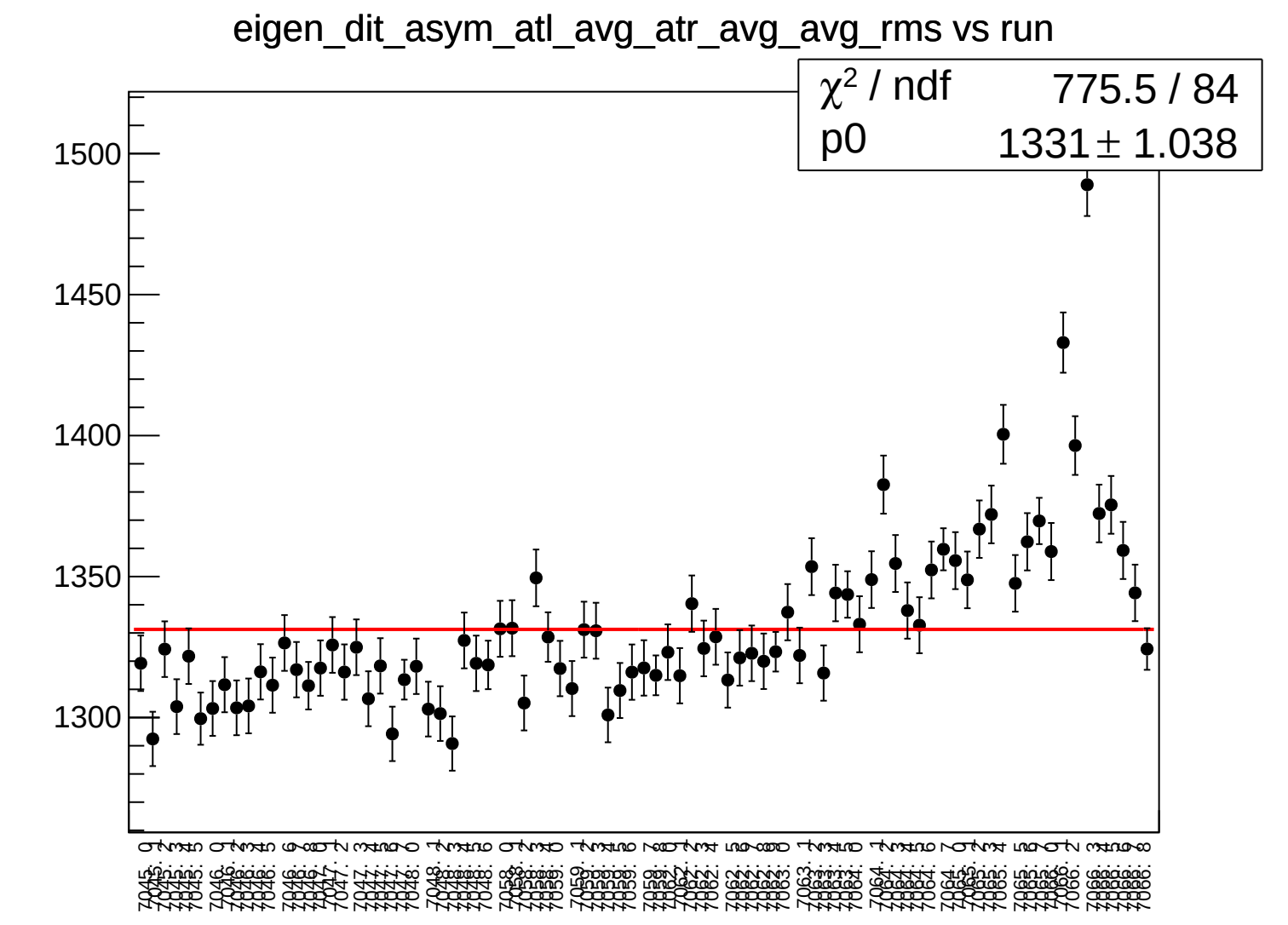

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.14 / 84
p0 −3102 ± 6390
pull
Entries 85
Mean 176
Std Dev 0

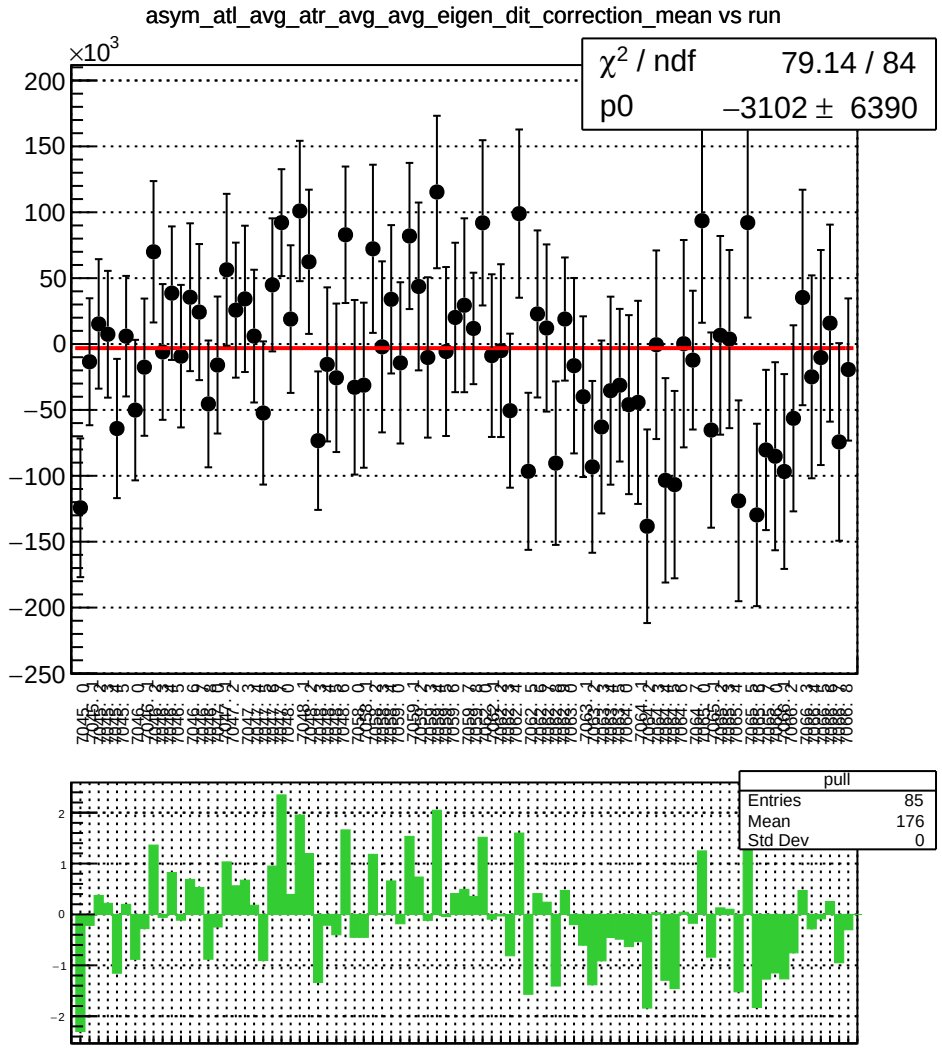

pull1D
Entries 85
Mean −0.04619
Std Dev 0.9638

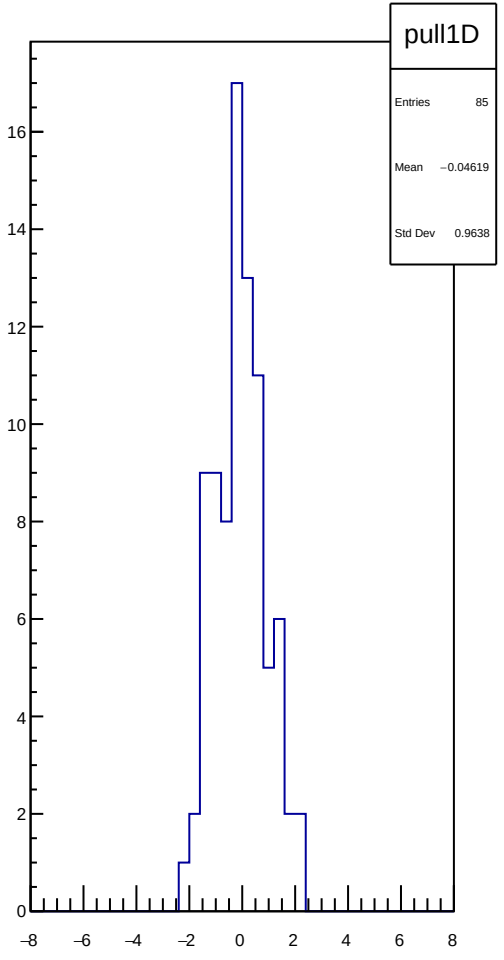

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.275e+04 / 84
p0 5741 ± 4.518
8000
7500
7000
6500
6000
5500
5000
4500

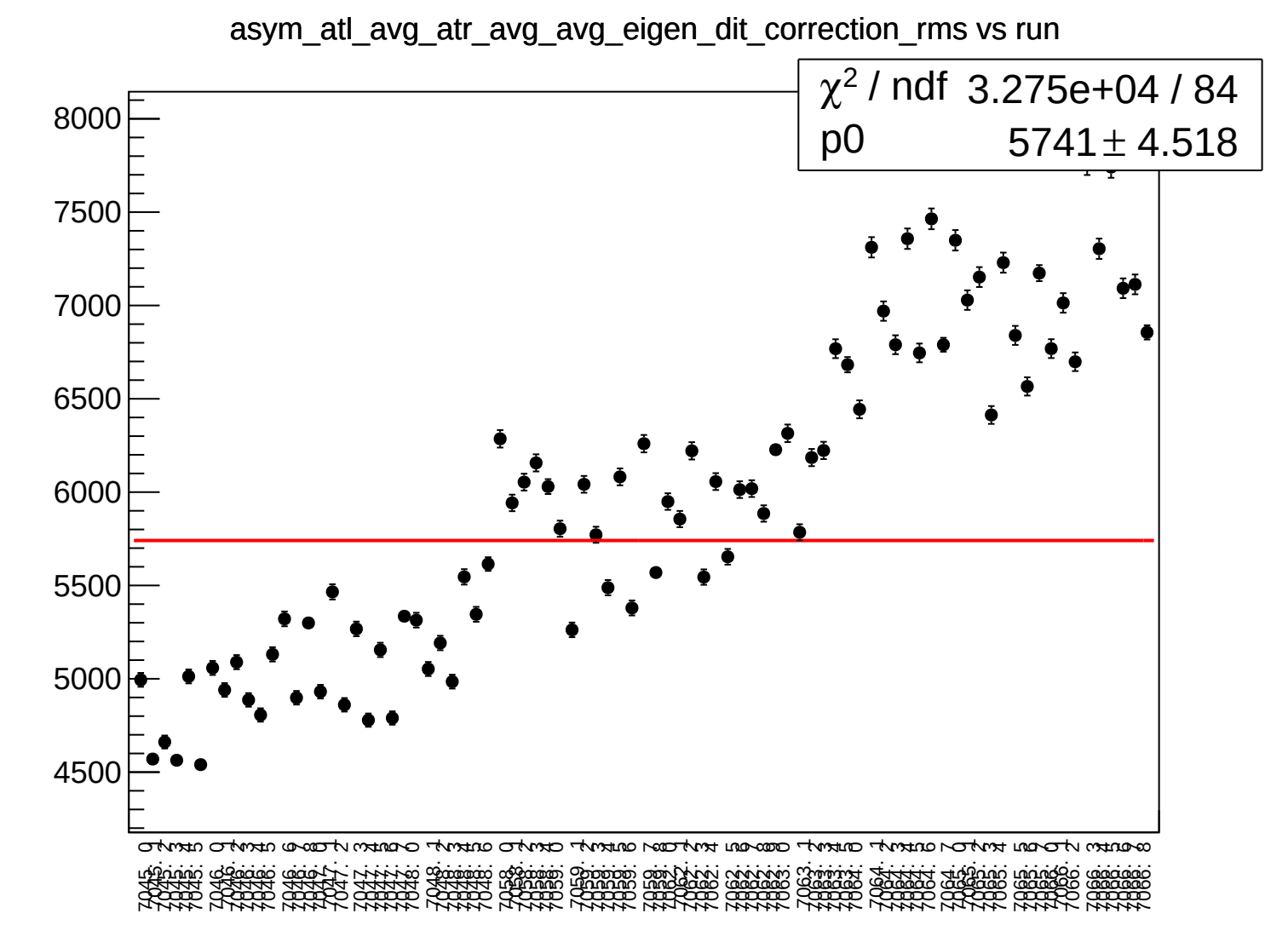

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.76 / 84
p0 622.1 ± 1467
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 1005
Std Dev 0
3
2
1
0
−1
−2

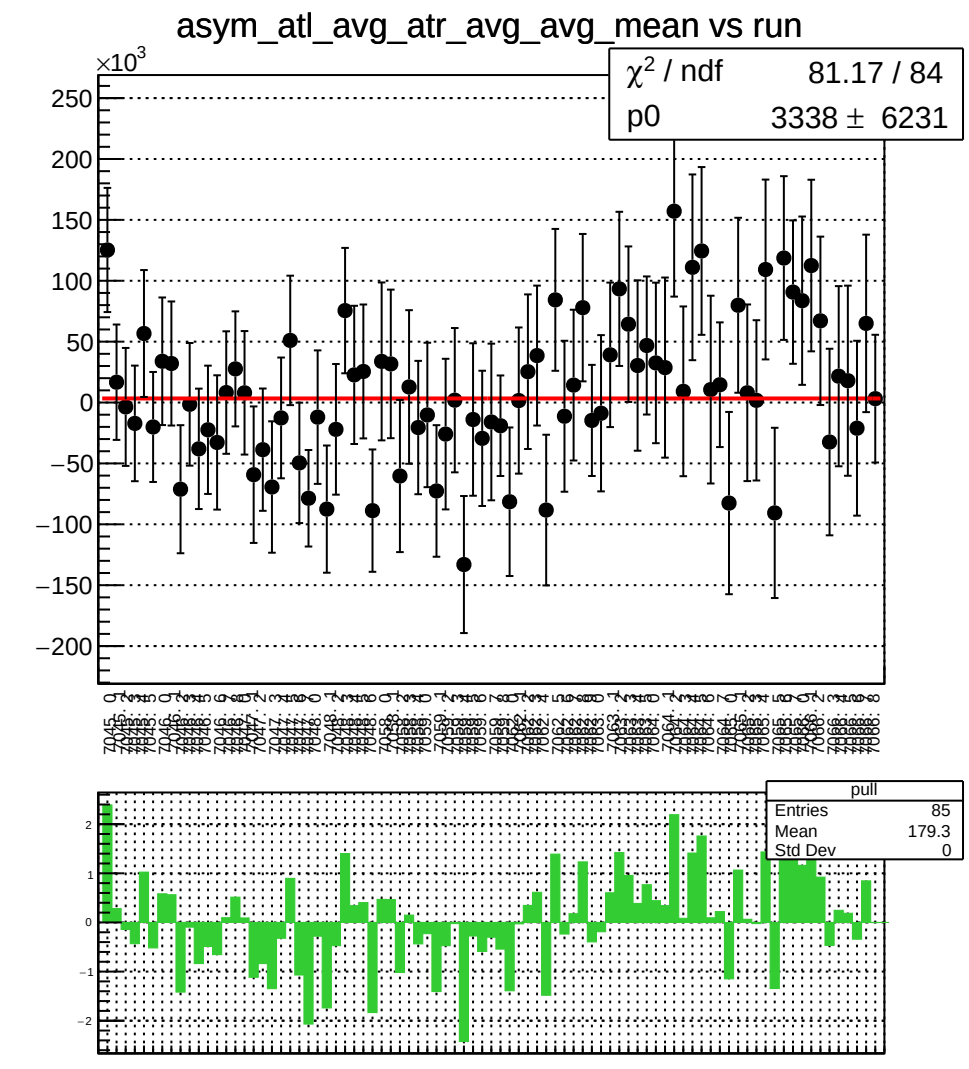

pull1D
Entries 85
Mean 0.002898
Std Dev 0.9927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

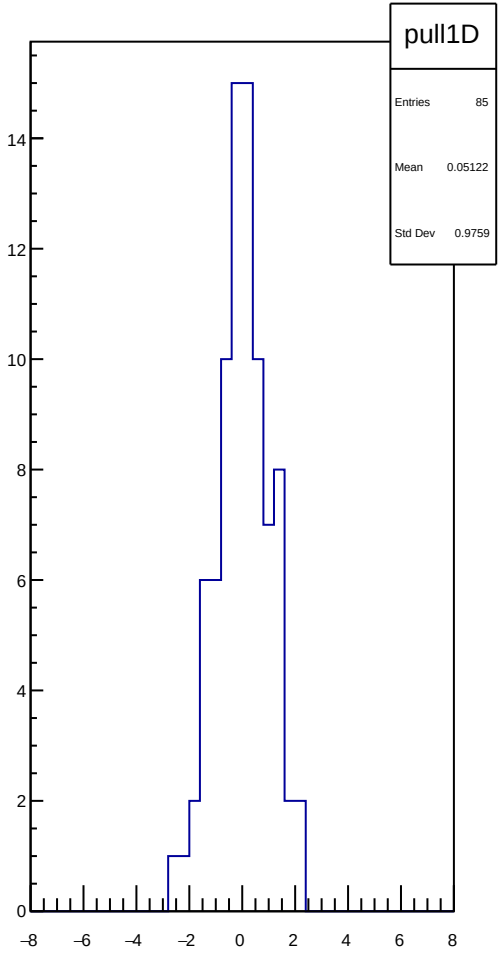

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 775.5 / 84
p0 1331 ± 1.038
1500
1450
1400
1350
1300

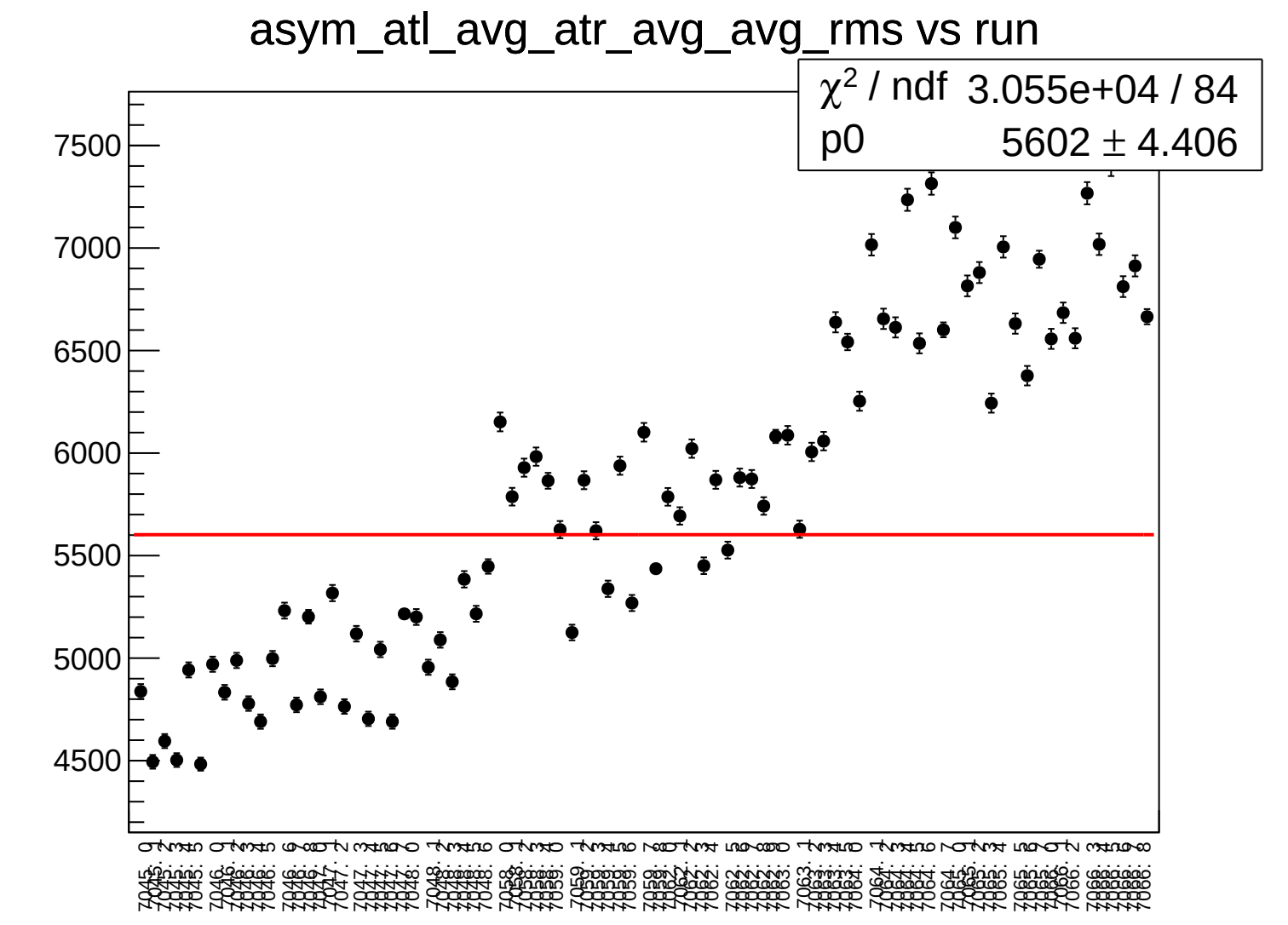

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.14 / 84
p0 −3102 ± 6390
pull
Entries 85
Mean 176
Std Dev 0

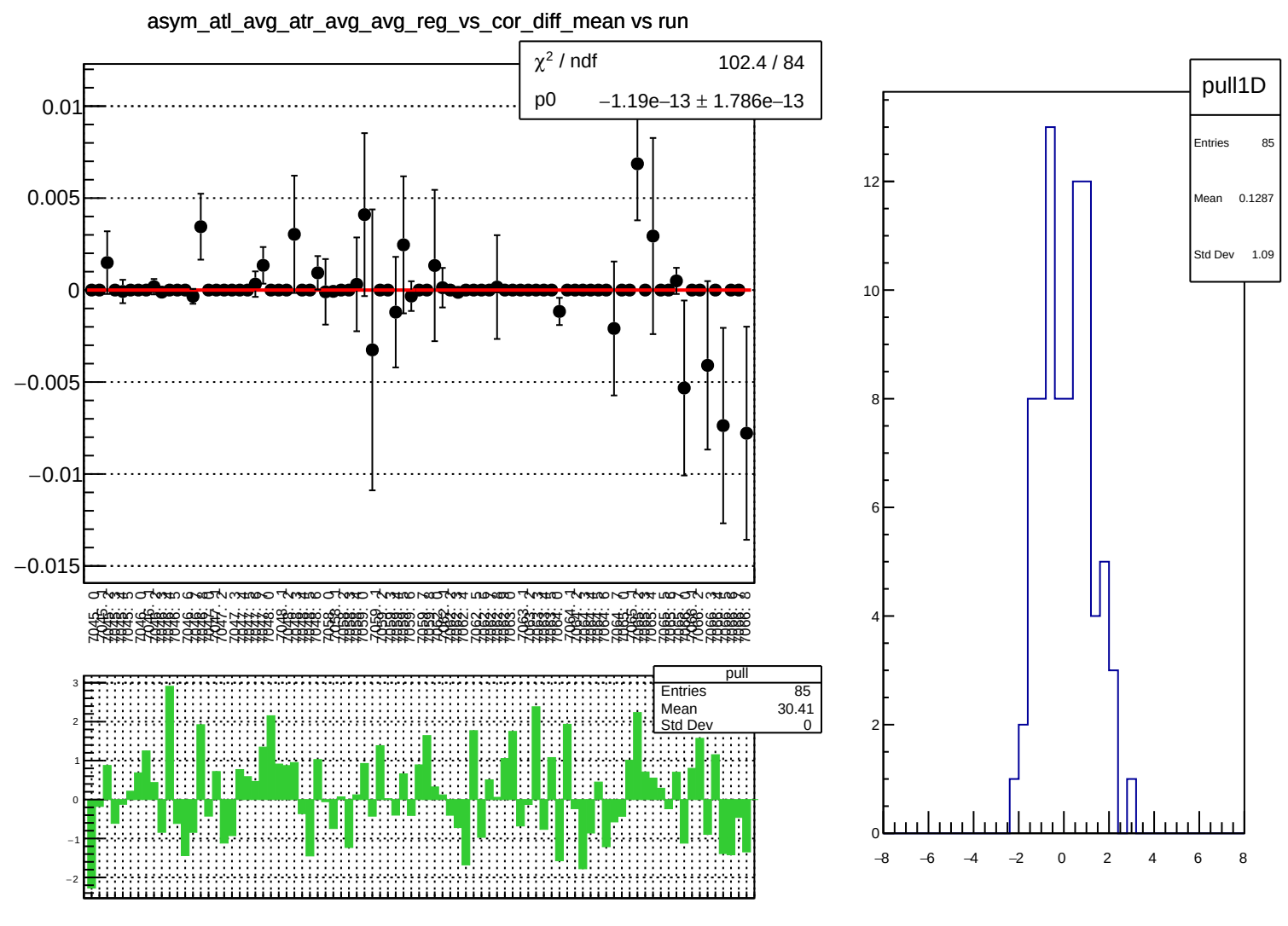

pull1D
Entries 85
Mean −0.04619
Std Dev 0.9638

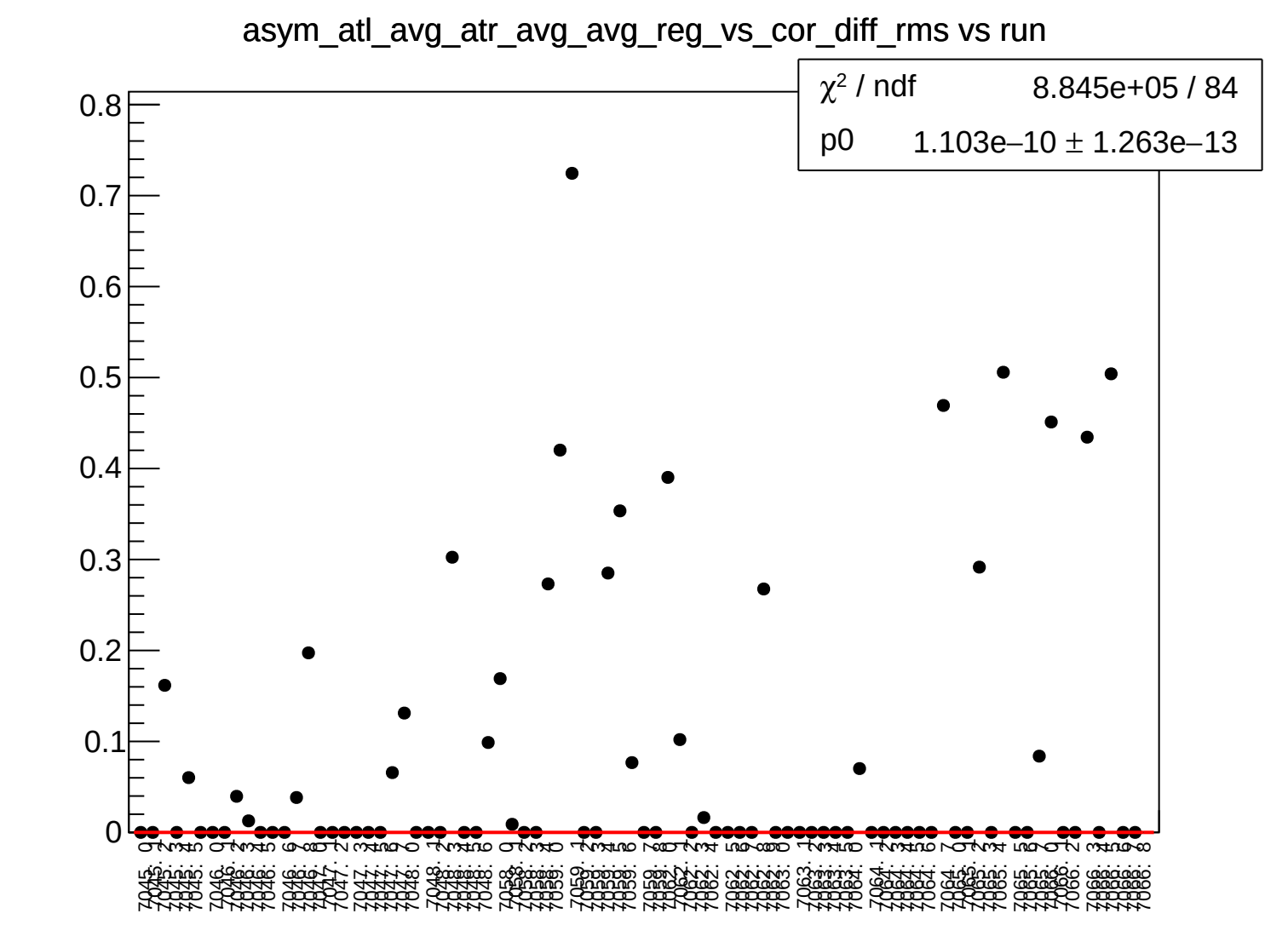

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.275e+04 / 84
p0 5741 ± 4.518
8000
7500
7000
6500
6000
5500
5000
4500

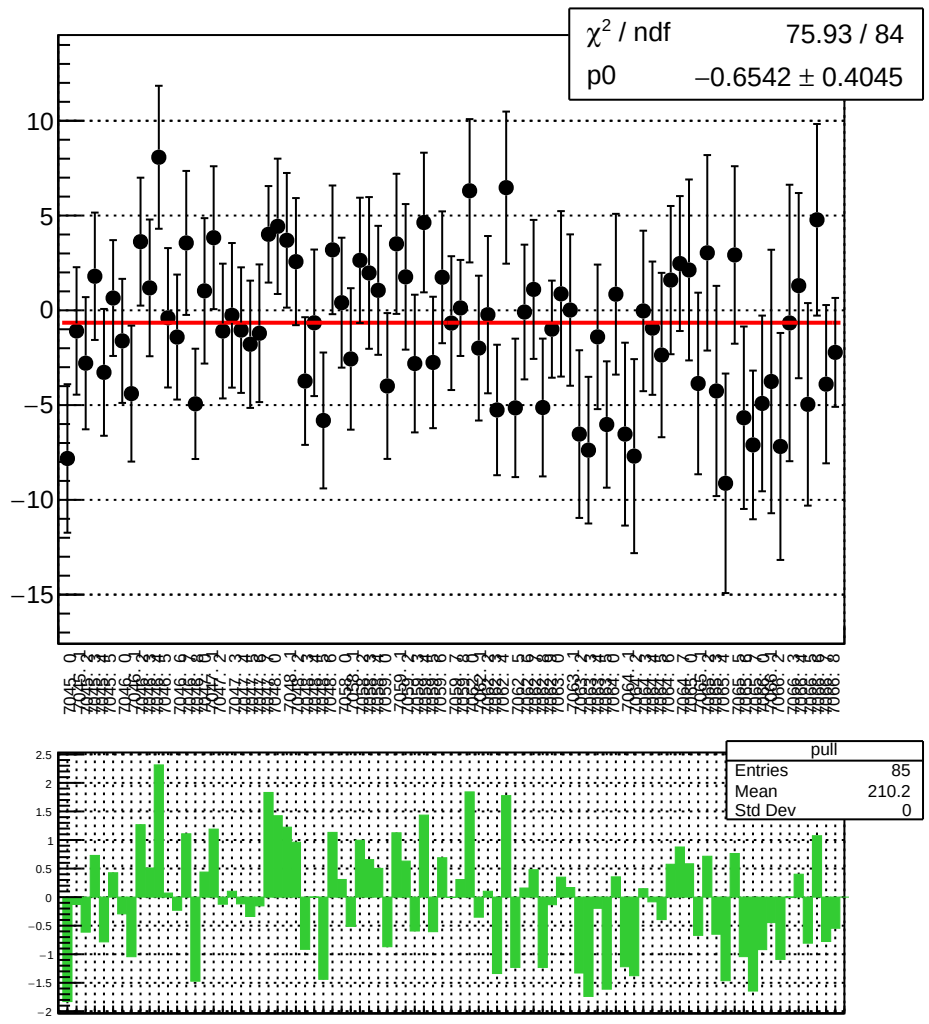

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 81.17 / 84
p0 3338 ± 6231
pull
Entries 85
Mean 179.3
Std Dev 0

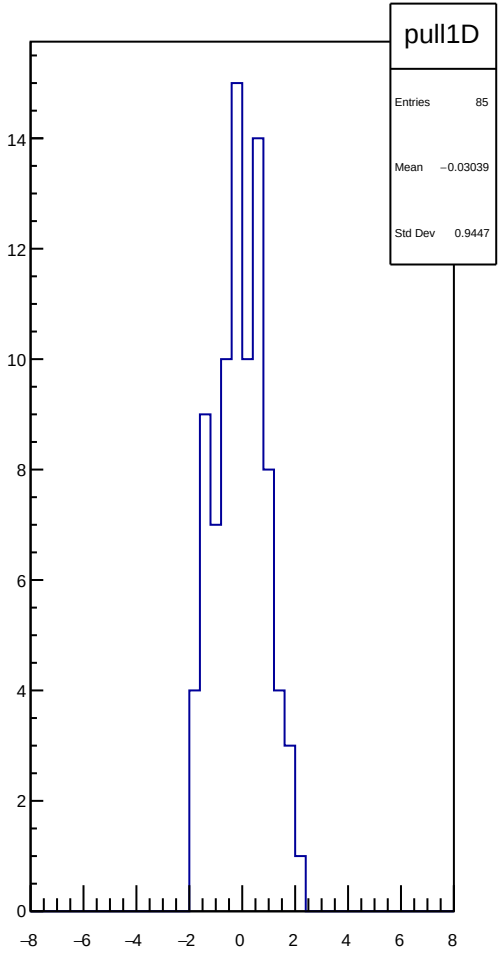

pull1D
Entries 85
Mean 0.05122
Std Dev 0.9759

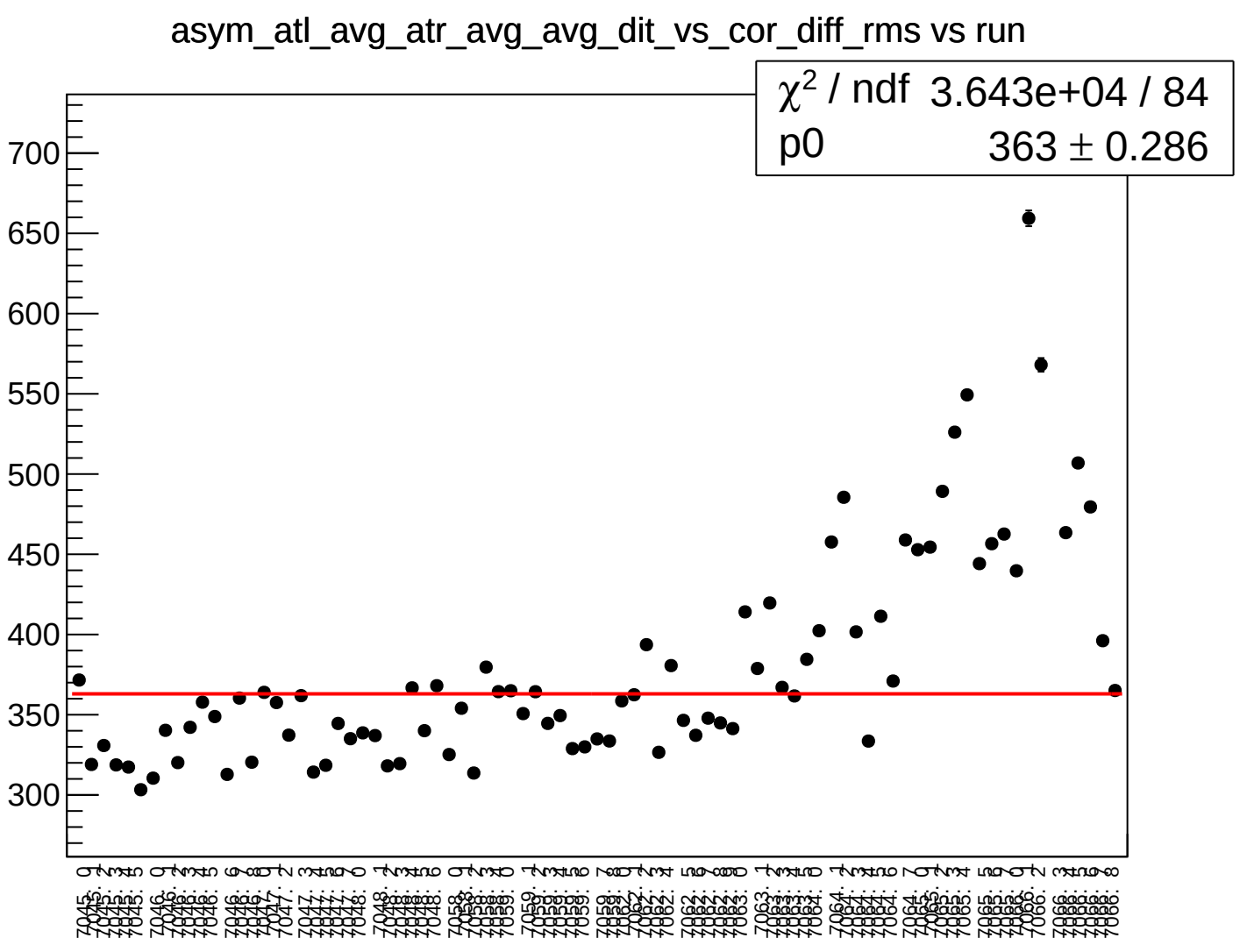

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.055e+04 / 84
p0 5602 ± 4.406
7500
7000
6500
6000
5500
5000
4500

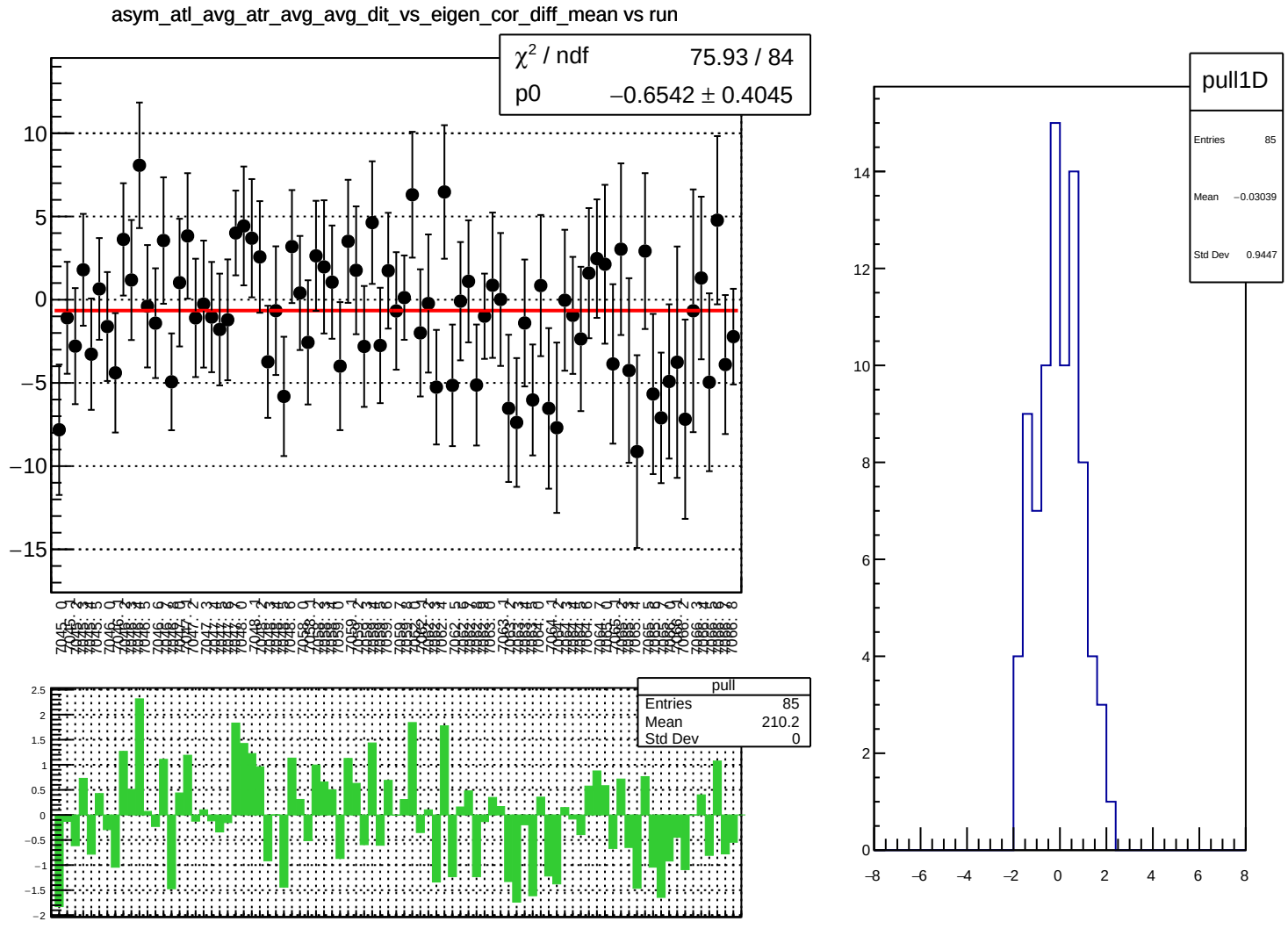

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 84
p0 −1.19e−13 ± 1.786e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean 30.41
Std Dev 0
pull1D
Entries 85
Mean 0.1287
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

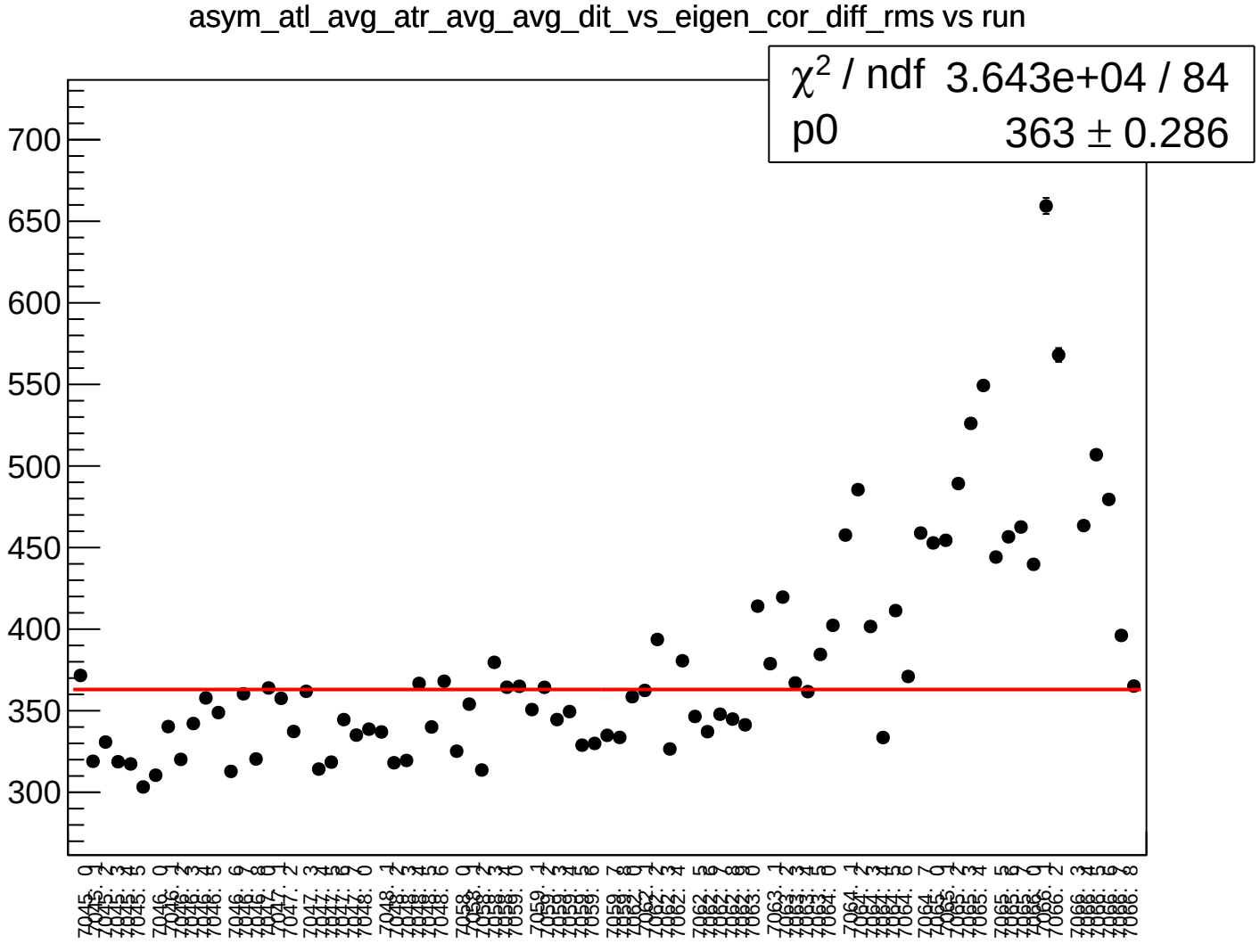

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.845e+05 / 84
p0 1.103e−10 ± 1.263e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

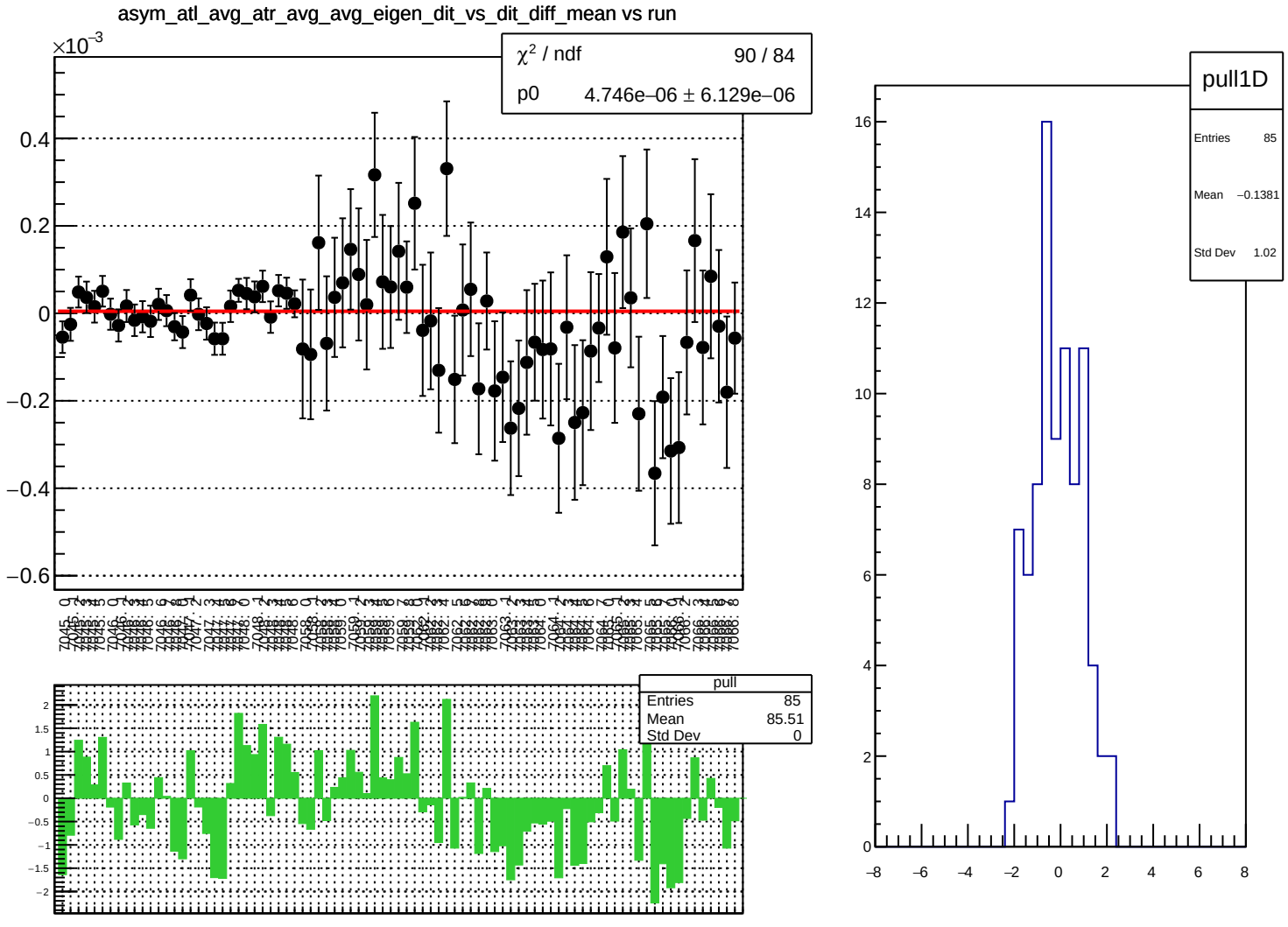

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6542 ± 0.4045
pull
Entries 85
Mean 210.2
Std Dev 0

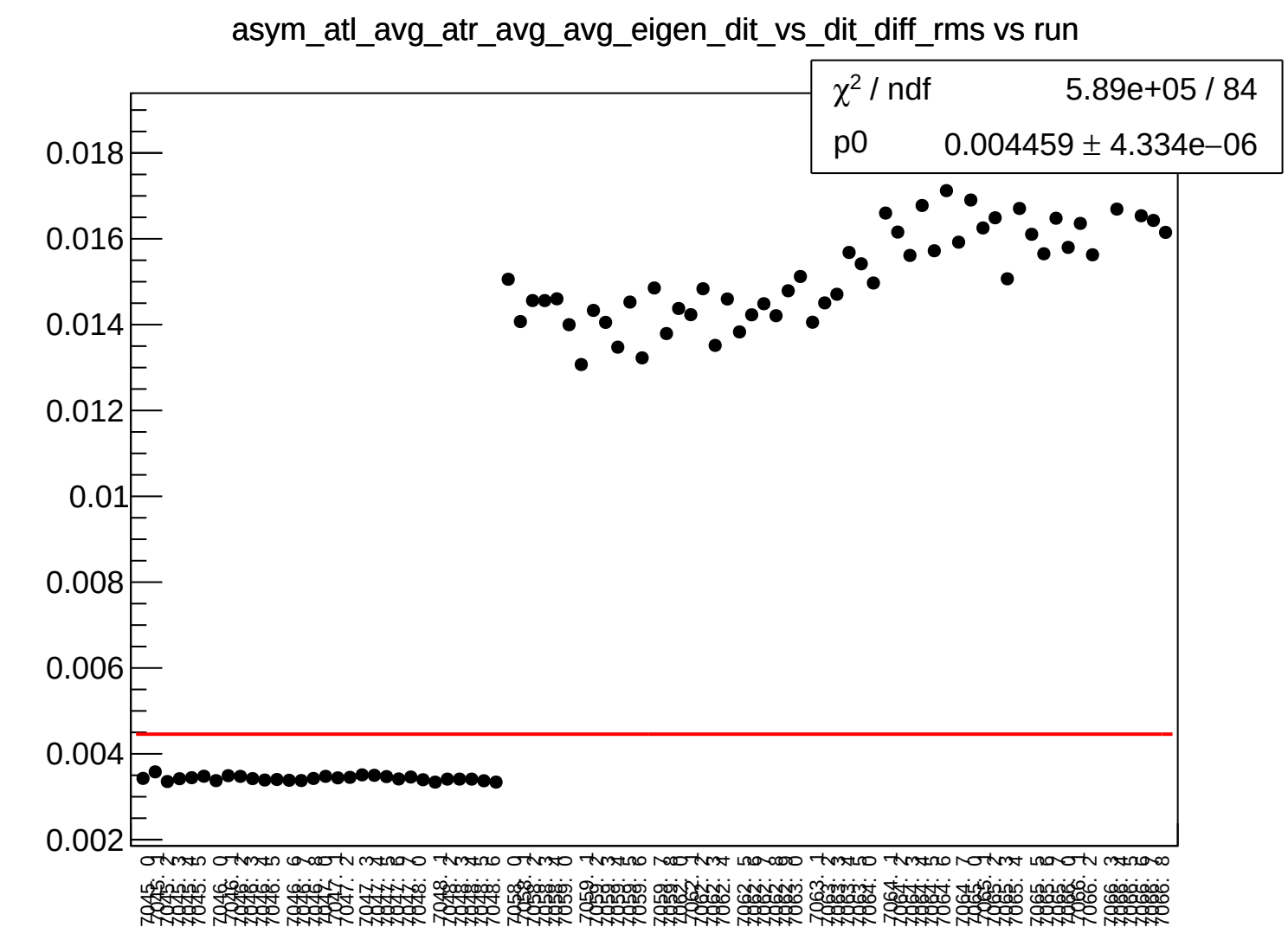

pull1D
Entries 85
Mean −0.03039
Std Dev 0.9447

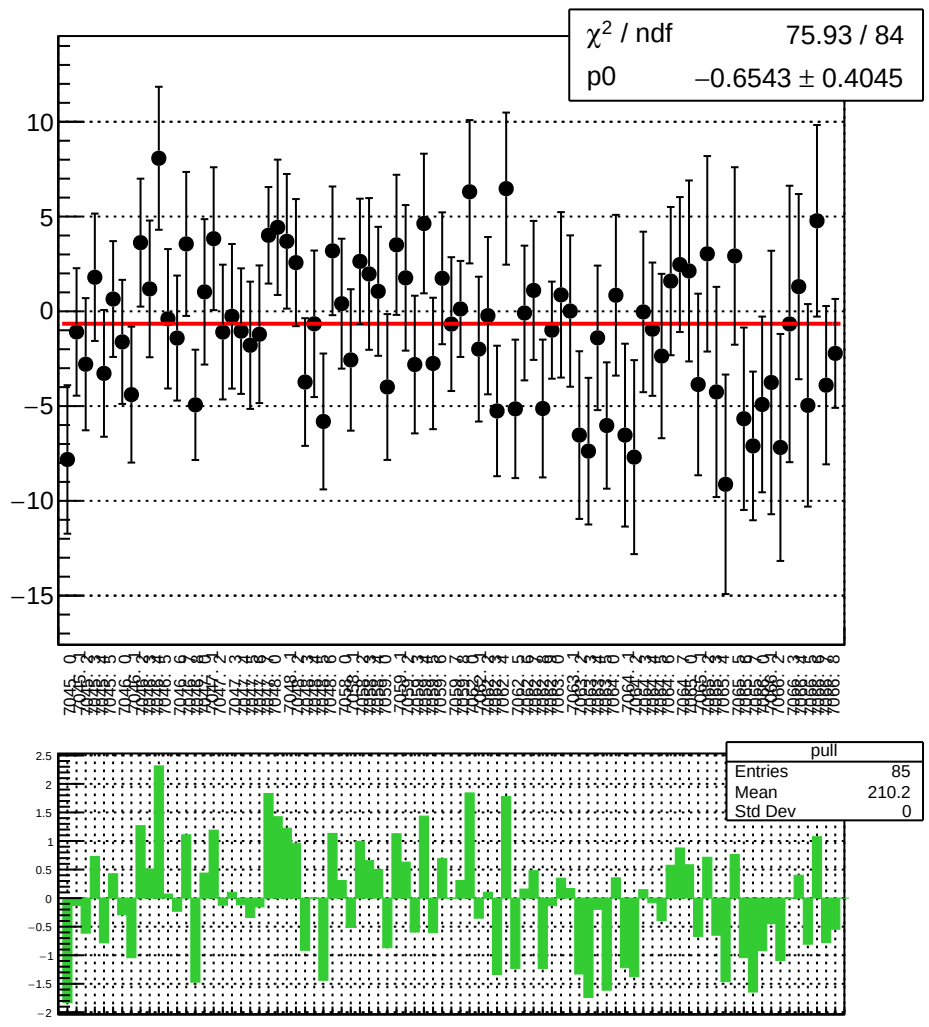

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 84
p0 363 ± 0.286
700
650
600
550
500
450
400
350
300

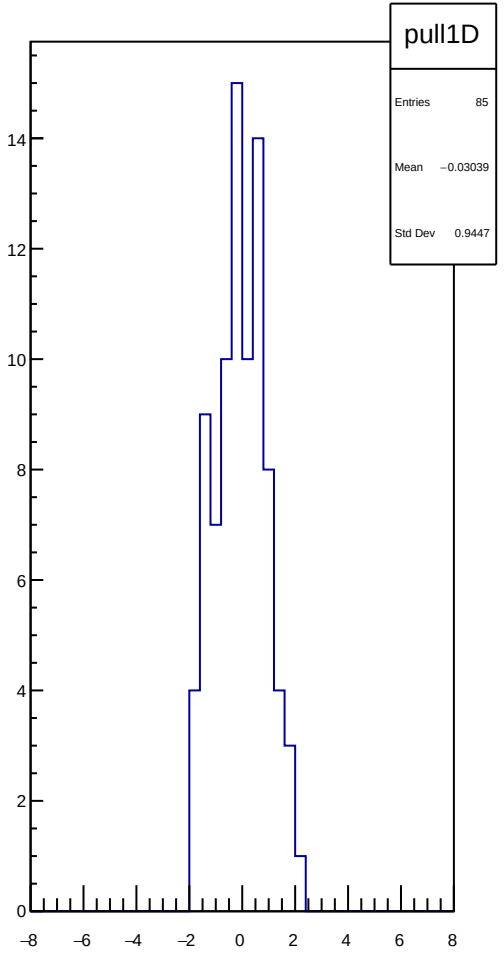

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6542 ± 0.4045
pull
Entries 85
Mean 210.2
Std Dev 0
pull1D
Entries 85
Mean −0.03039
Std Dev 0.9447

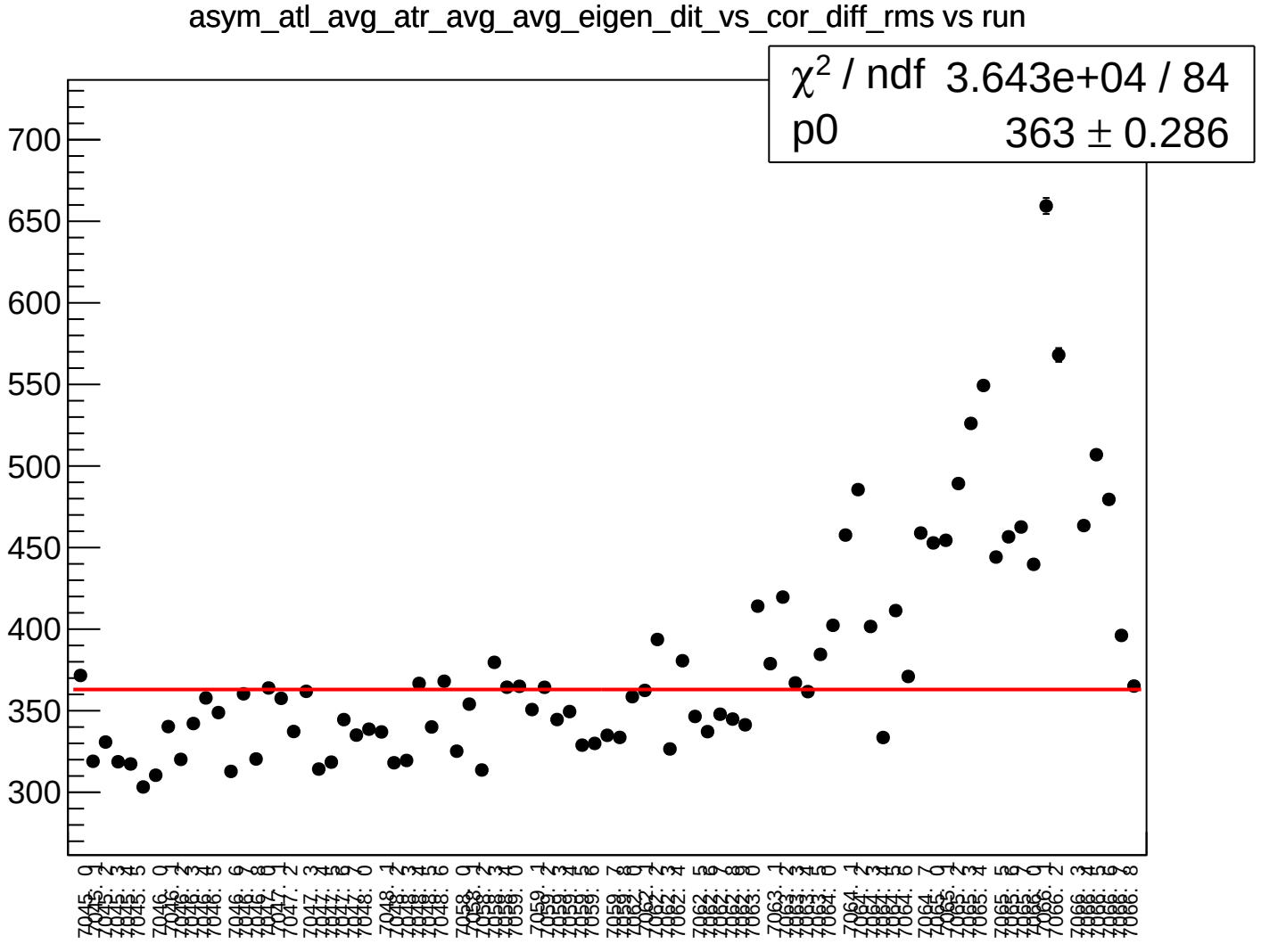

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 84
p0 363 ± 0.286
700
650
600
550
500
450
400
350
300

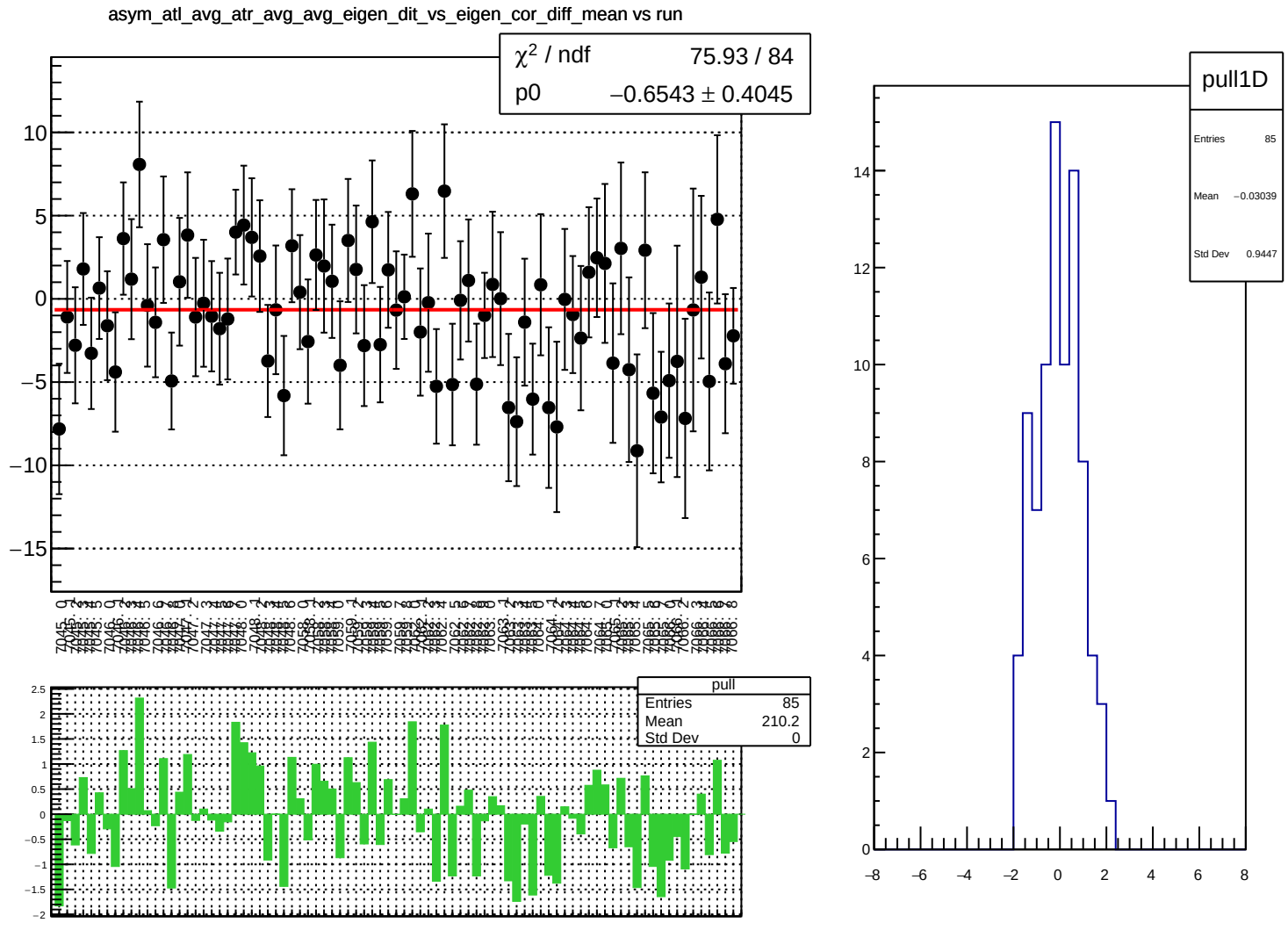

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90 / 84
p0 4.746e−06 ± 6.129e−06
pull
Entries 85
Mean 85.51
Std Dev 0
pull1D
Entries 85
Mean −0.1381
Std Dev 1.02

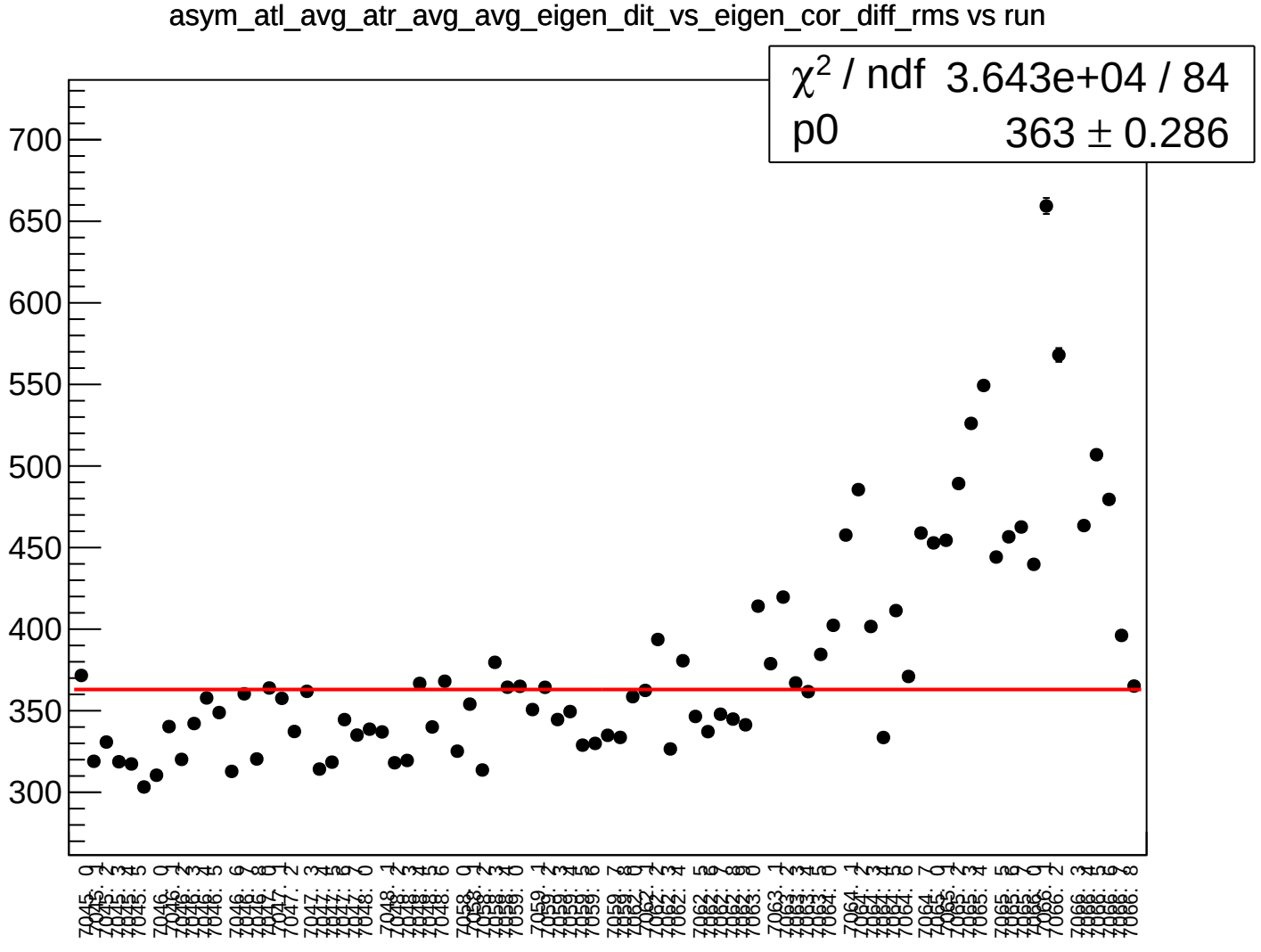

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.89e+05 / 84
p0 0.004459 ± 4.334e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

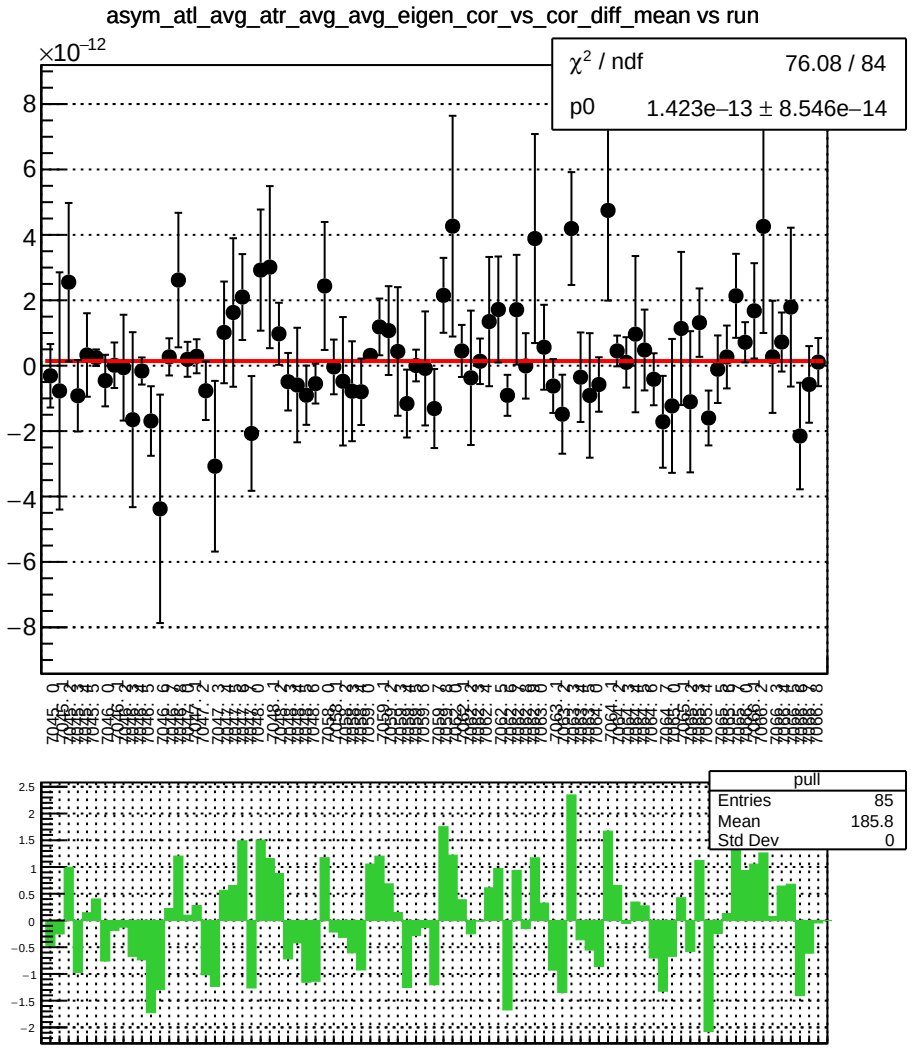

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6543 ± 0.4045
pull
Entries 85
Mean 210.2
Std Dev 0

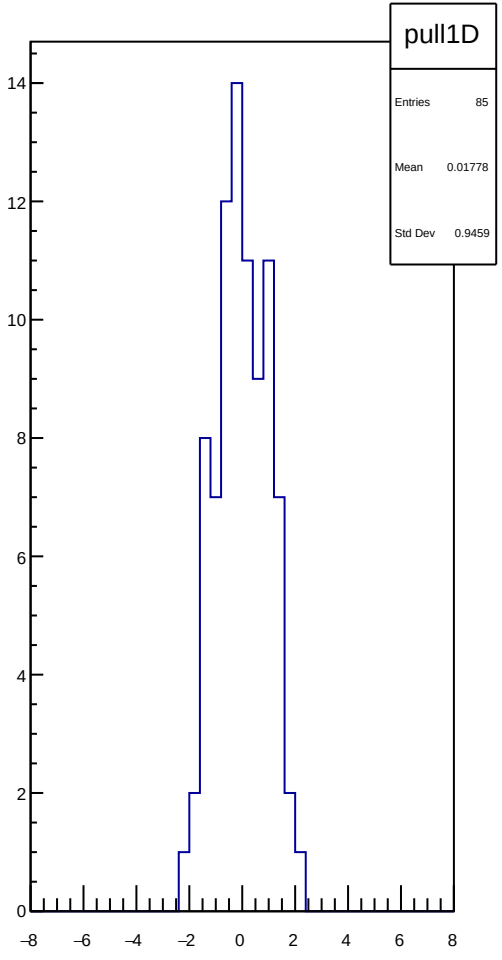

pull1D
Entries 85
Mean −0.03039
Std Dev 0.9447

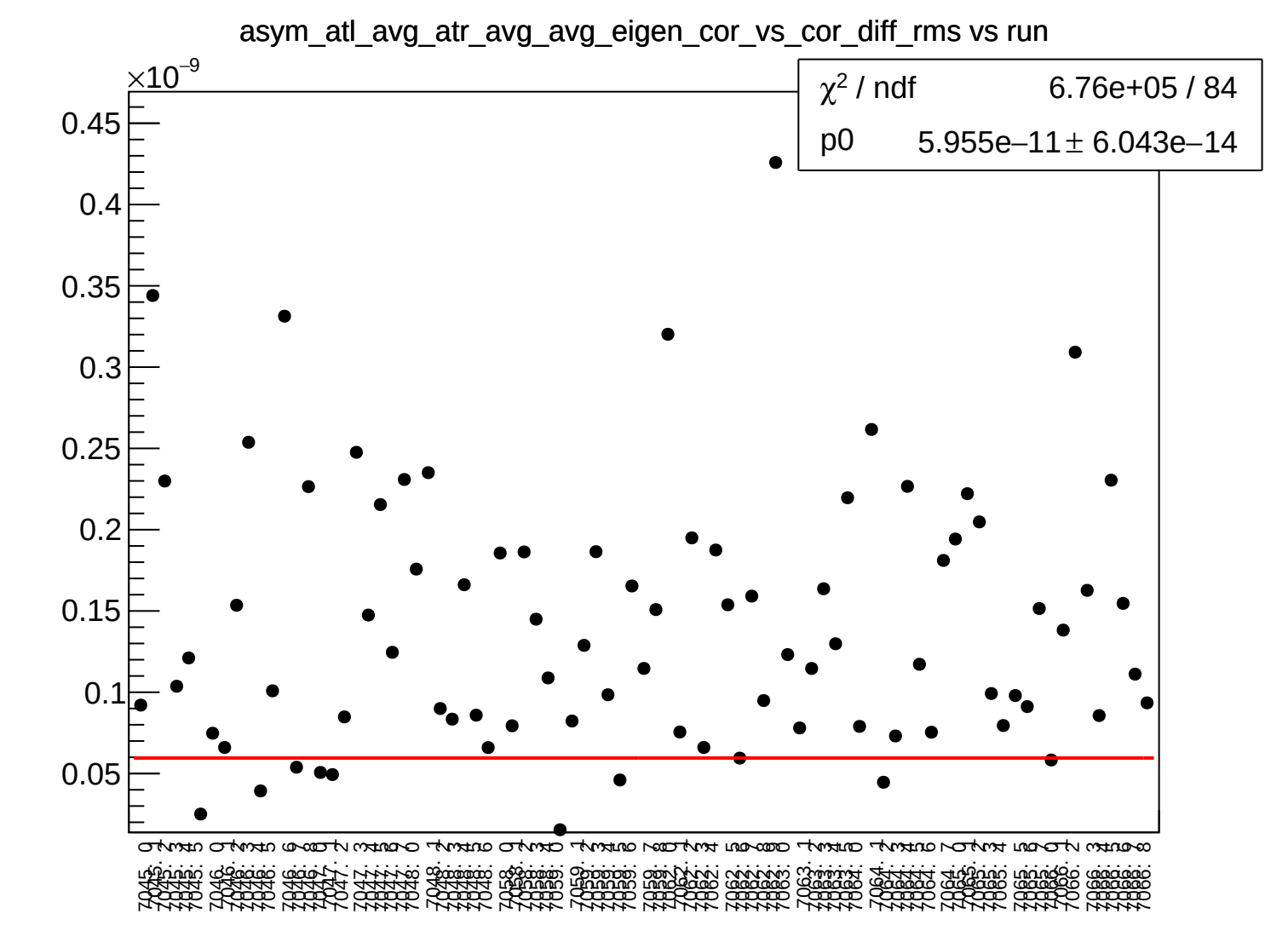

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 84
p0 363 ± 0.286
700
650
600
550
500
450
400
350
300

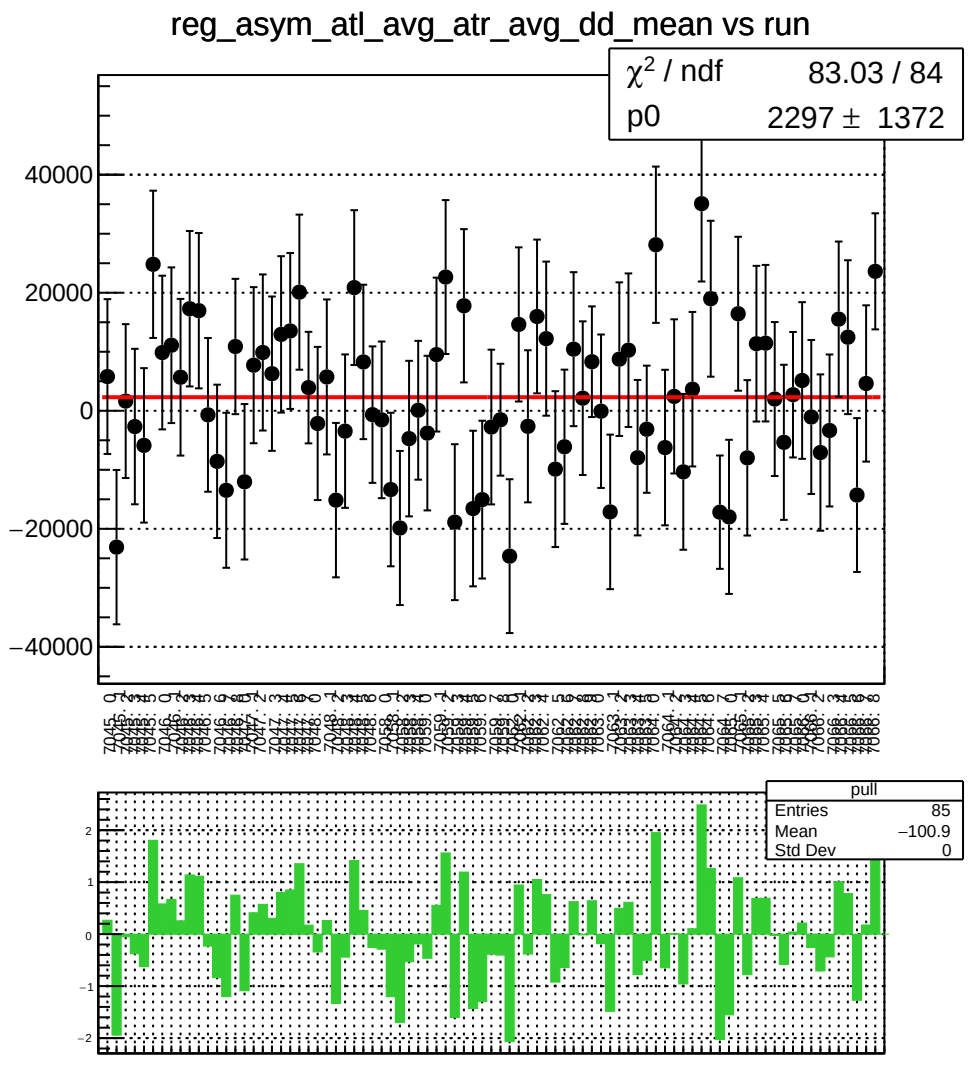

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 84
p0 −0.6543 ± 0.4045
pull
Entries 85
Mean 210.2
Std Dev 0
pull1D
Entries 85
Mean −0.03039
Std Dev 0.9447

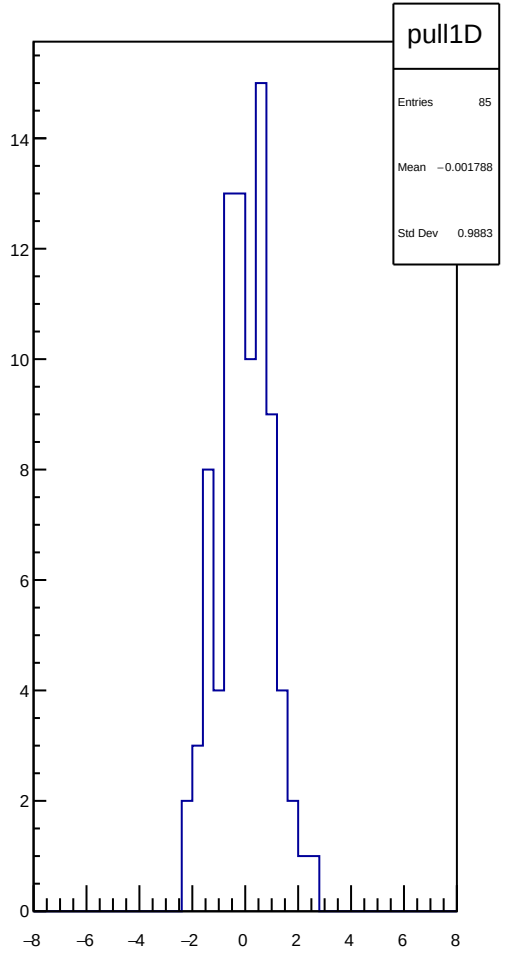

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 84
p0 363 ± 0.286
700
650
600
550
500
450
400
350
300

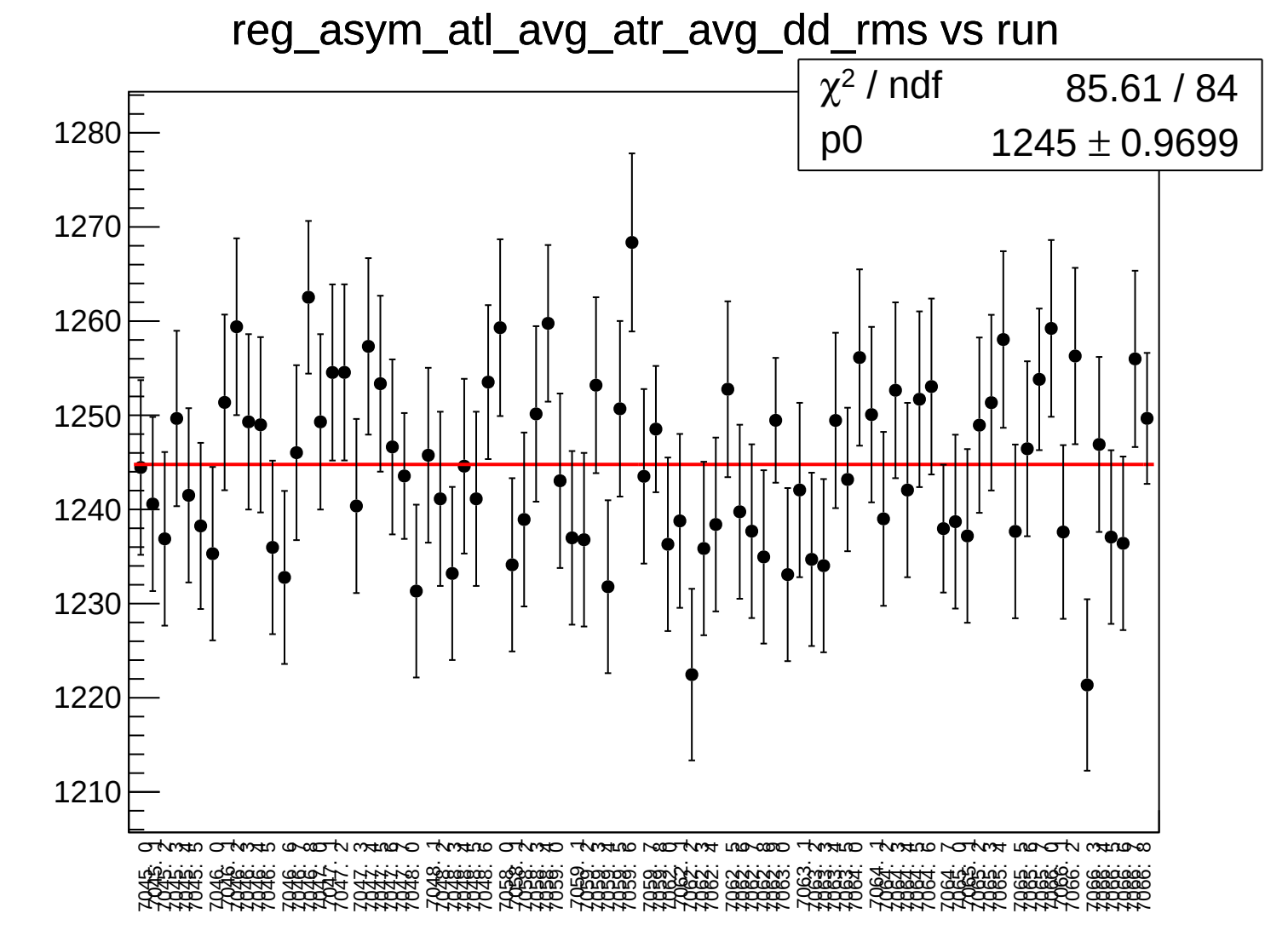

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.08 / 84
p0 1.423e−13 ± 8.546e−14
pull
Entries 85
Mean 185.8
Std Dev 0

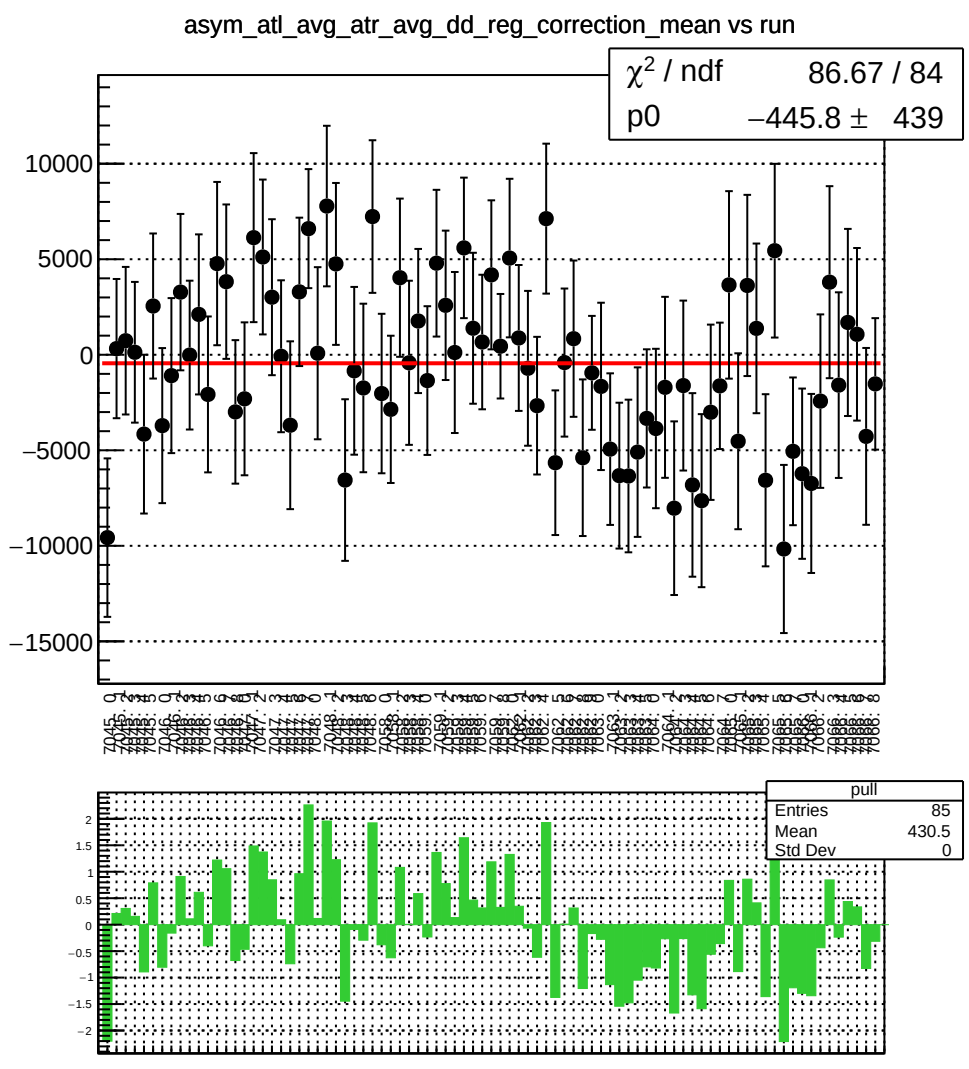

pull1D
Entries 85
Mean 0.01778
Std Dev 0.9459

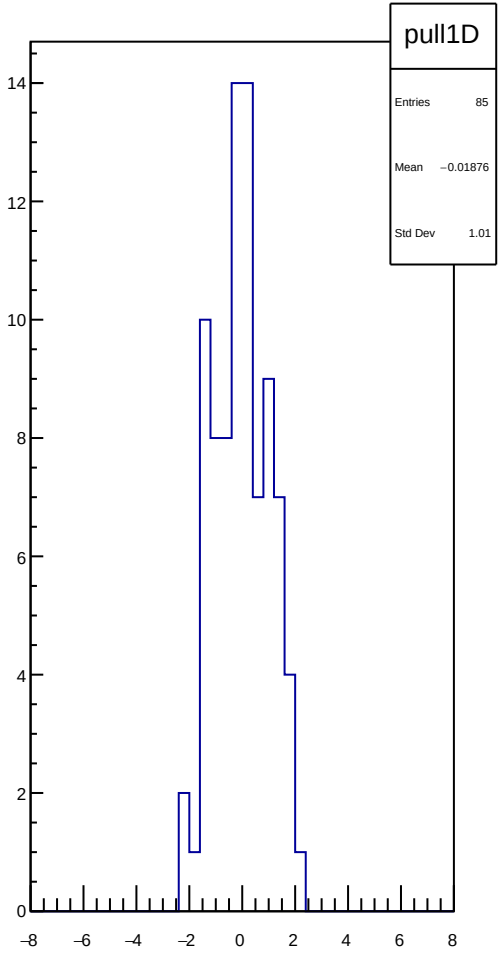

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.76e+05 / 84
p0 5.955e−11 ± 6.043e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

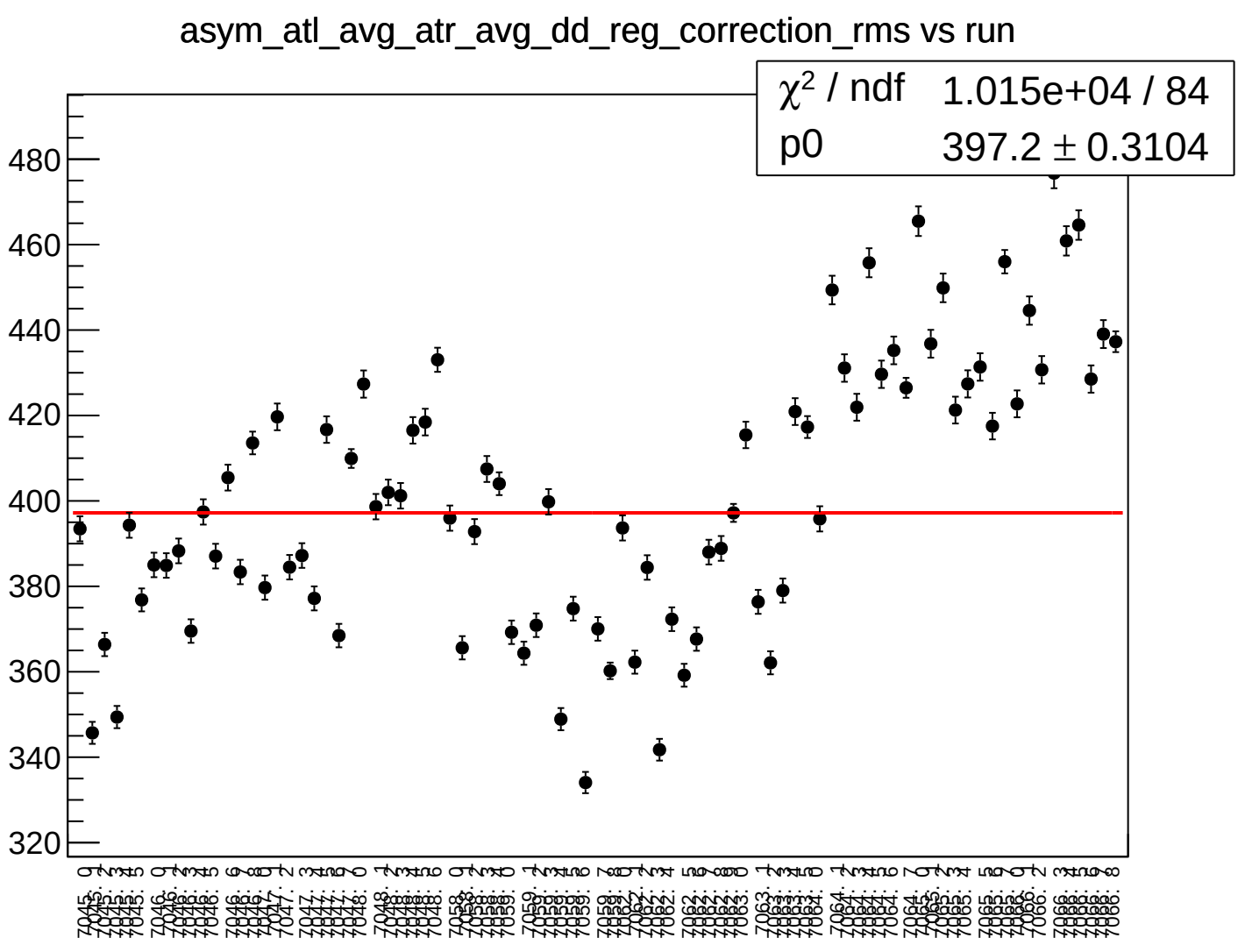

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.03 / 84
p0 2297 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −100.9
Std Dev 0
2
1
0
−1
−2

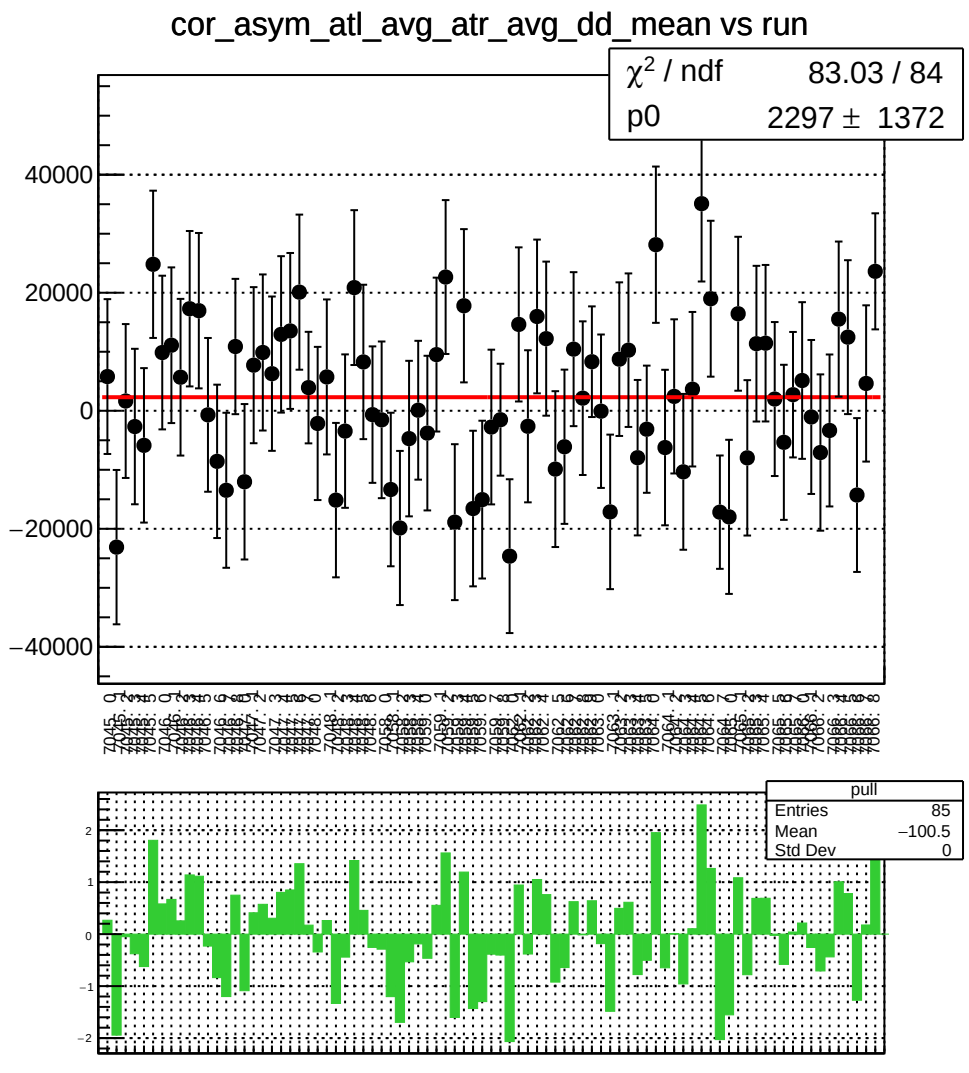

pull1D
Entries 85
Mean −0.001788
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

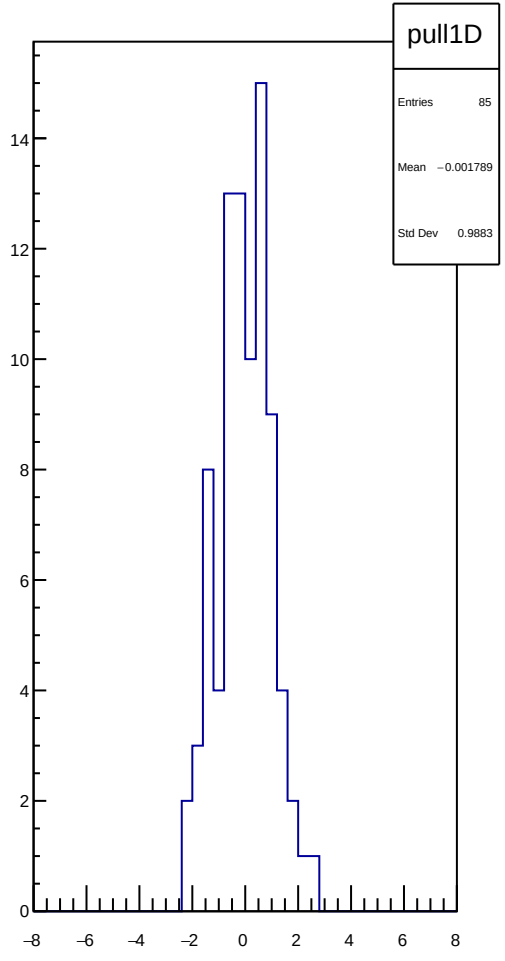

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 85.61 / 84
p0 1245 ± 0.9699
1280
1270
1260
1250
1240
1230
1220
1210

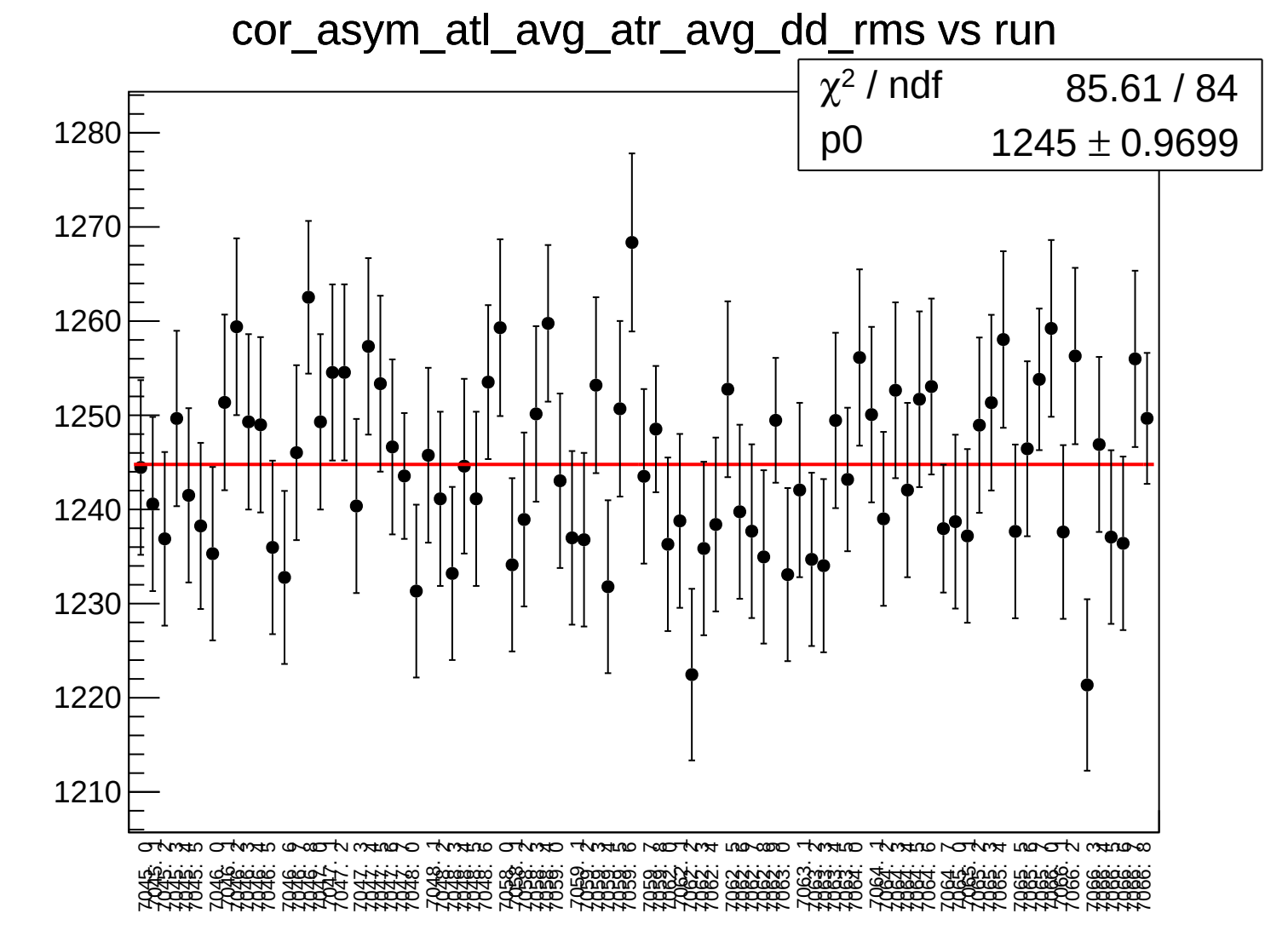

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 86.67 / 84
p0 −445.8 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 430.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

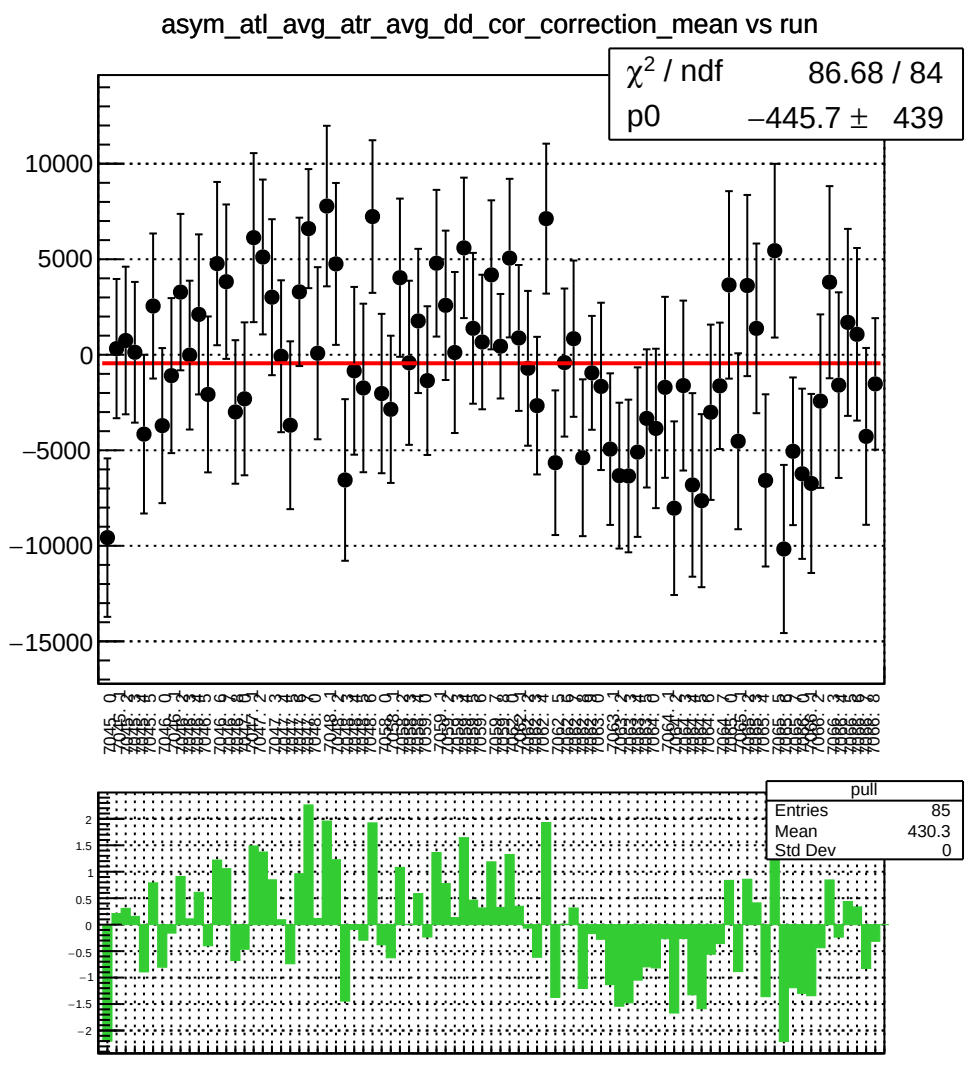

pull1D
Entries 85
Mean −0.01876
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

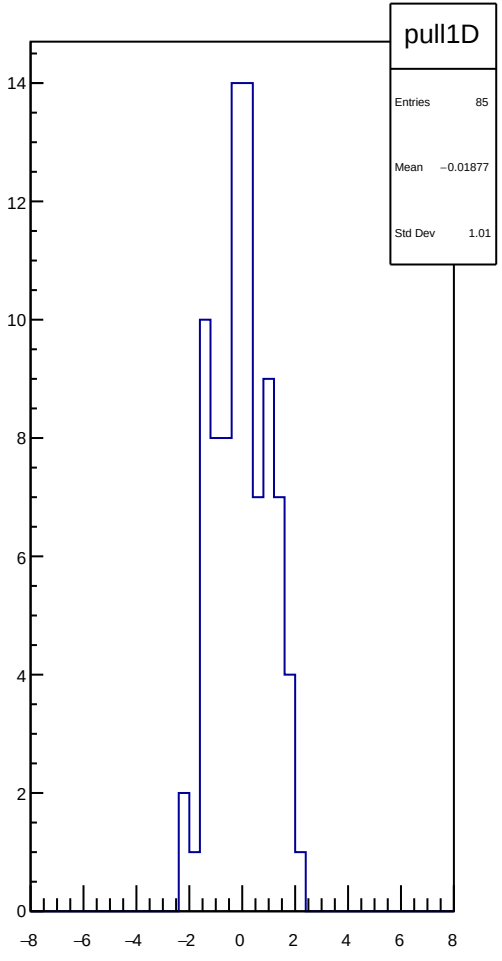

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 397.2 ± 0.3104
480
460
440
420
400
380
360
340
320

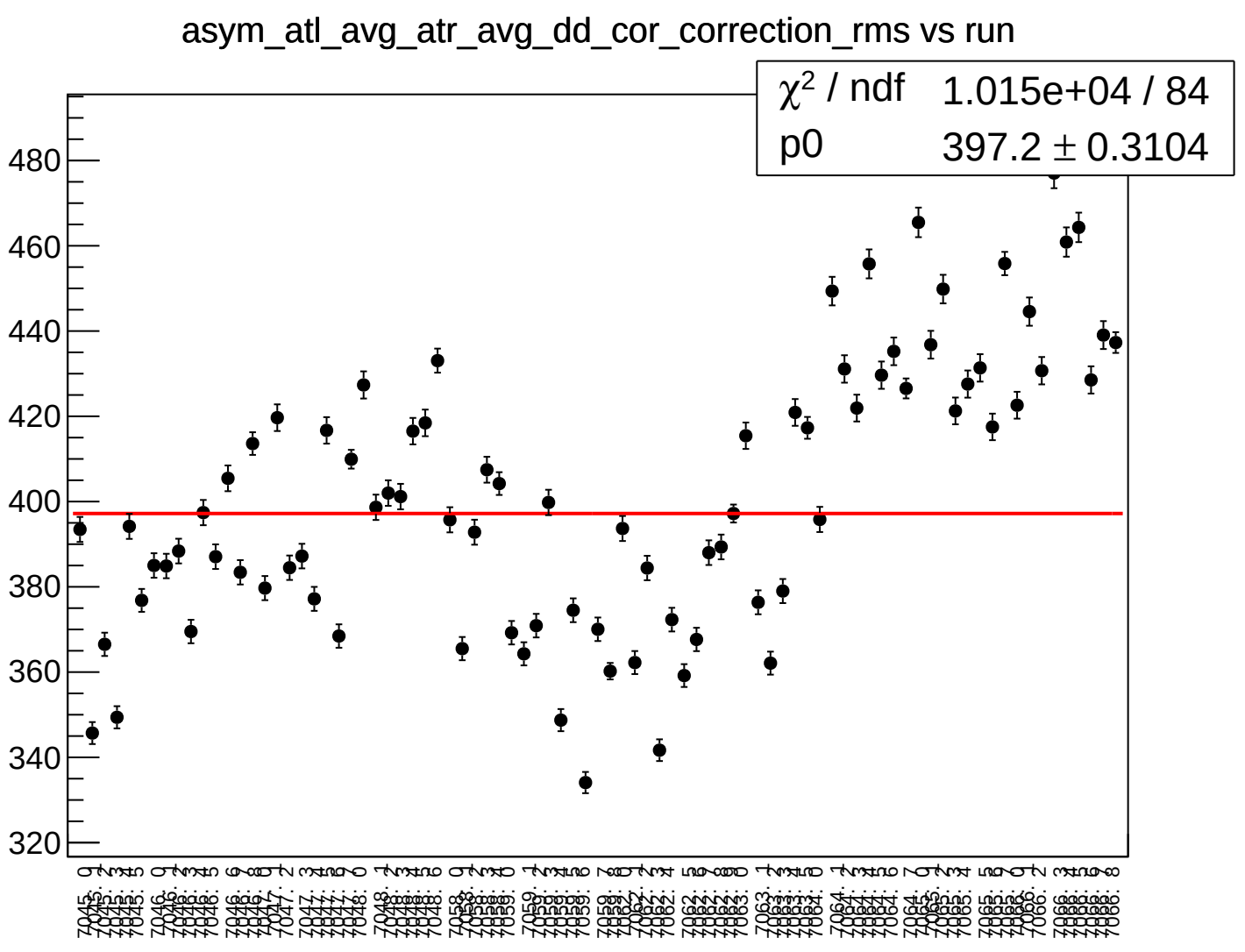

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.03 / 84
p0 2297 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −100.5
Std Dev 0
2
1
0
−1
−2

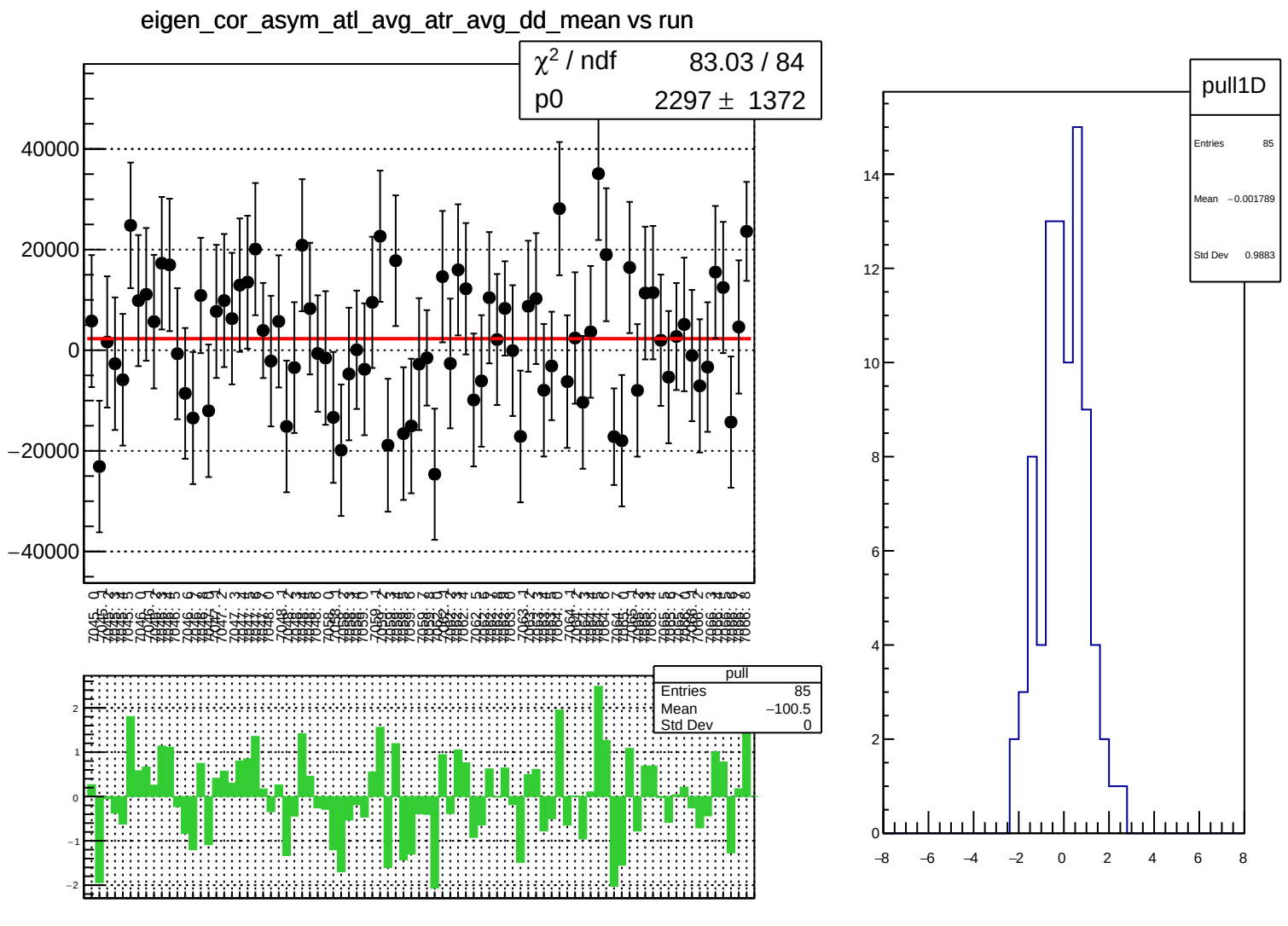

pull1D
Entries 85
Mean −0.001789
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

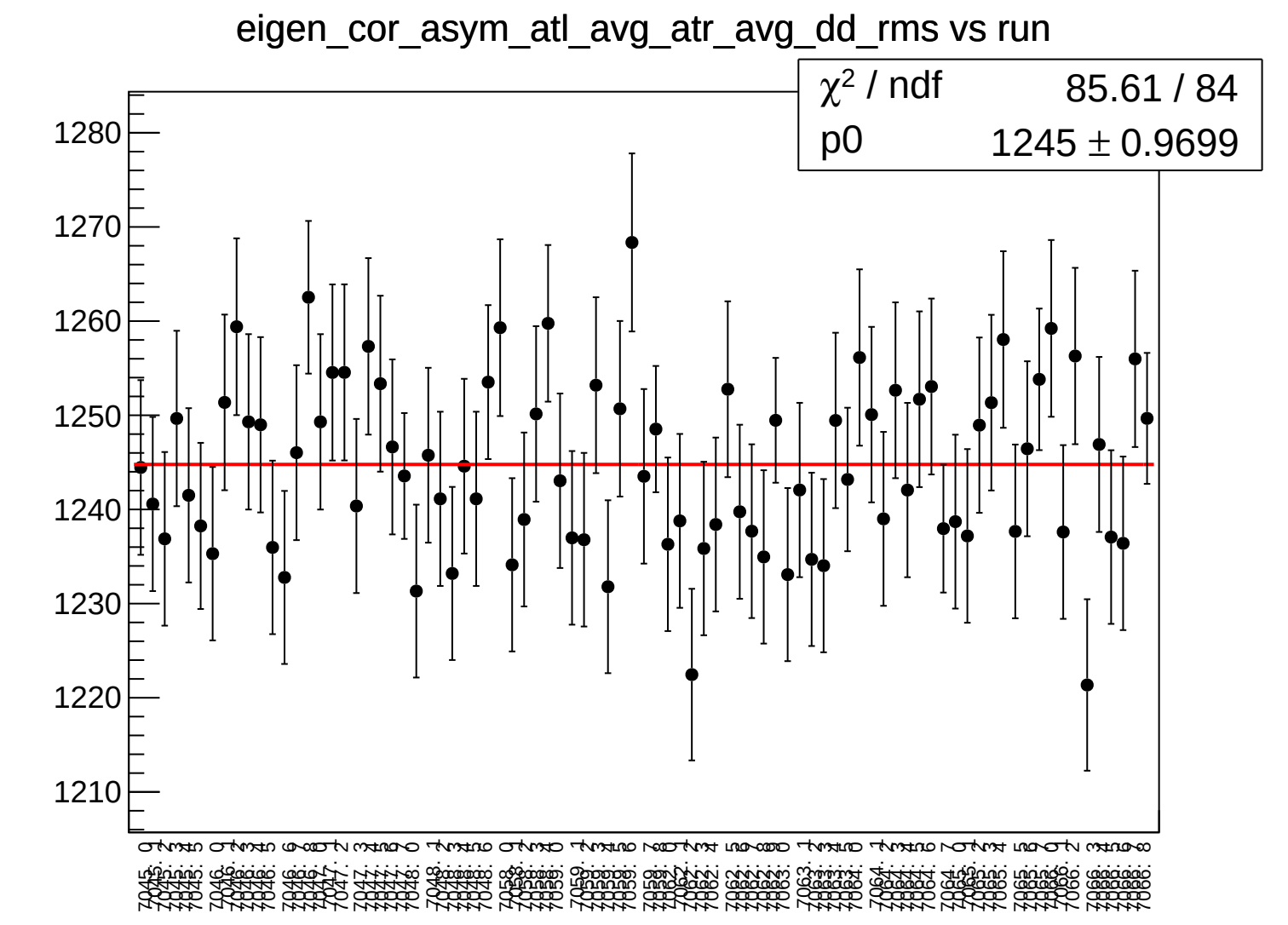

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 85.61 / 84
p0 1245 ± 0.9699
1280
1270
1260
1250
1240
1230
1220
1210

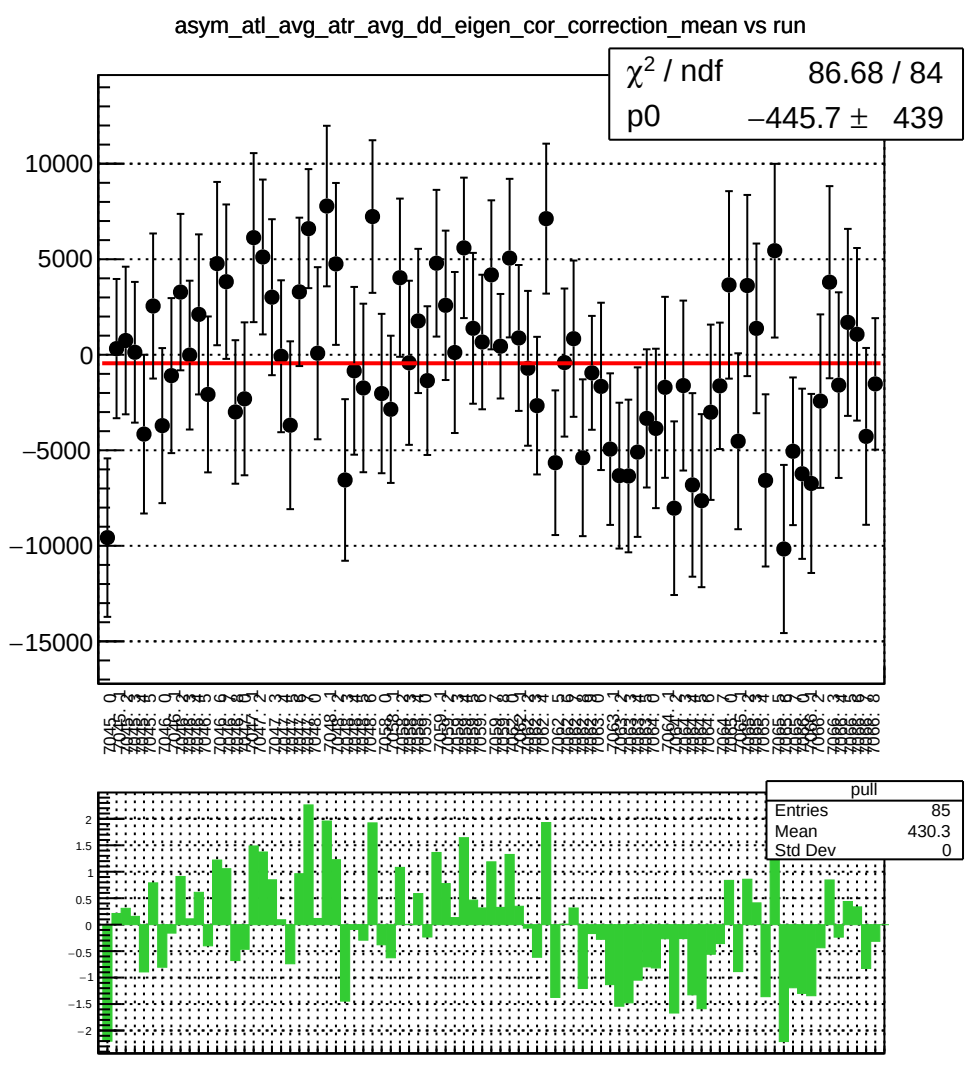

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 86.68 / 84
p0 −445.7 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 430.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

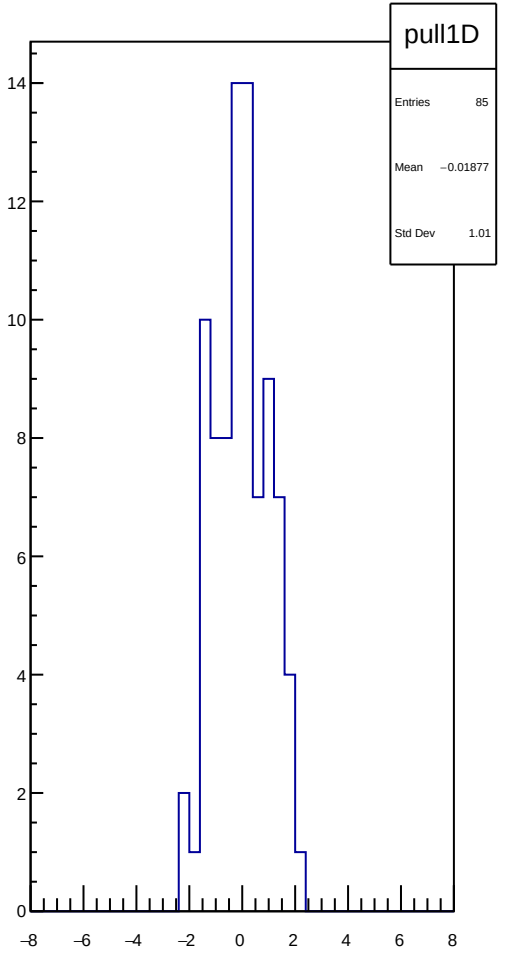

pull1D
Entries 85
Mean −0.01877
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

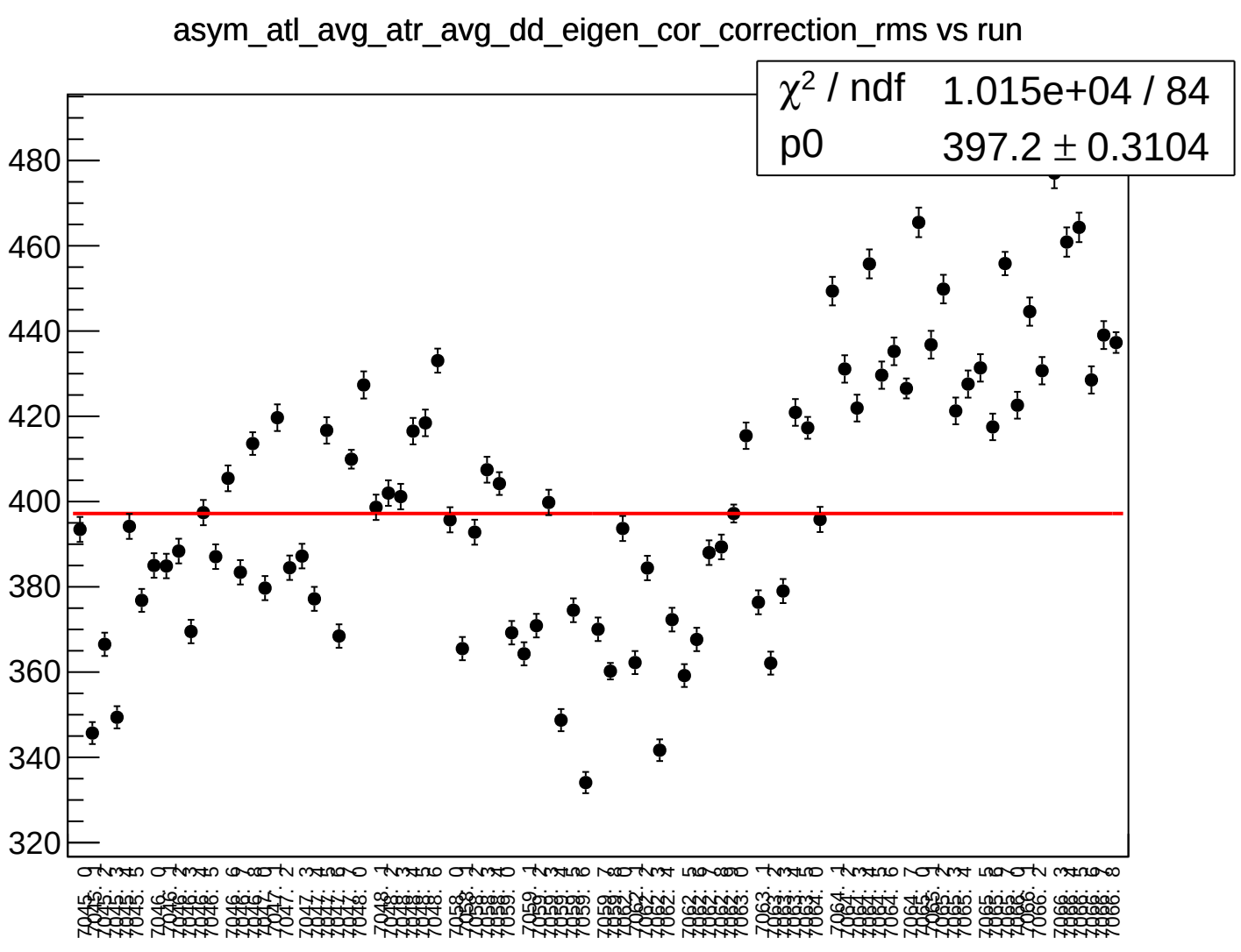

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 397.2 ± 0.3104
480
460
440
420
400
380
360
340
320

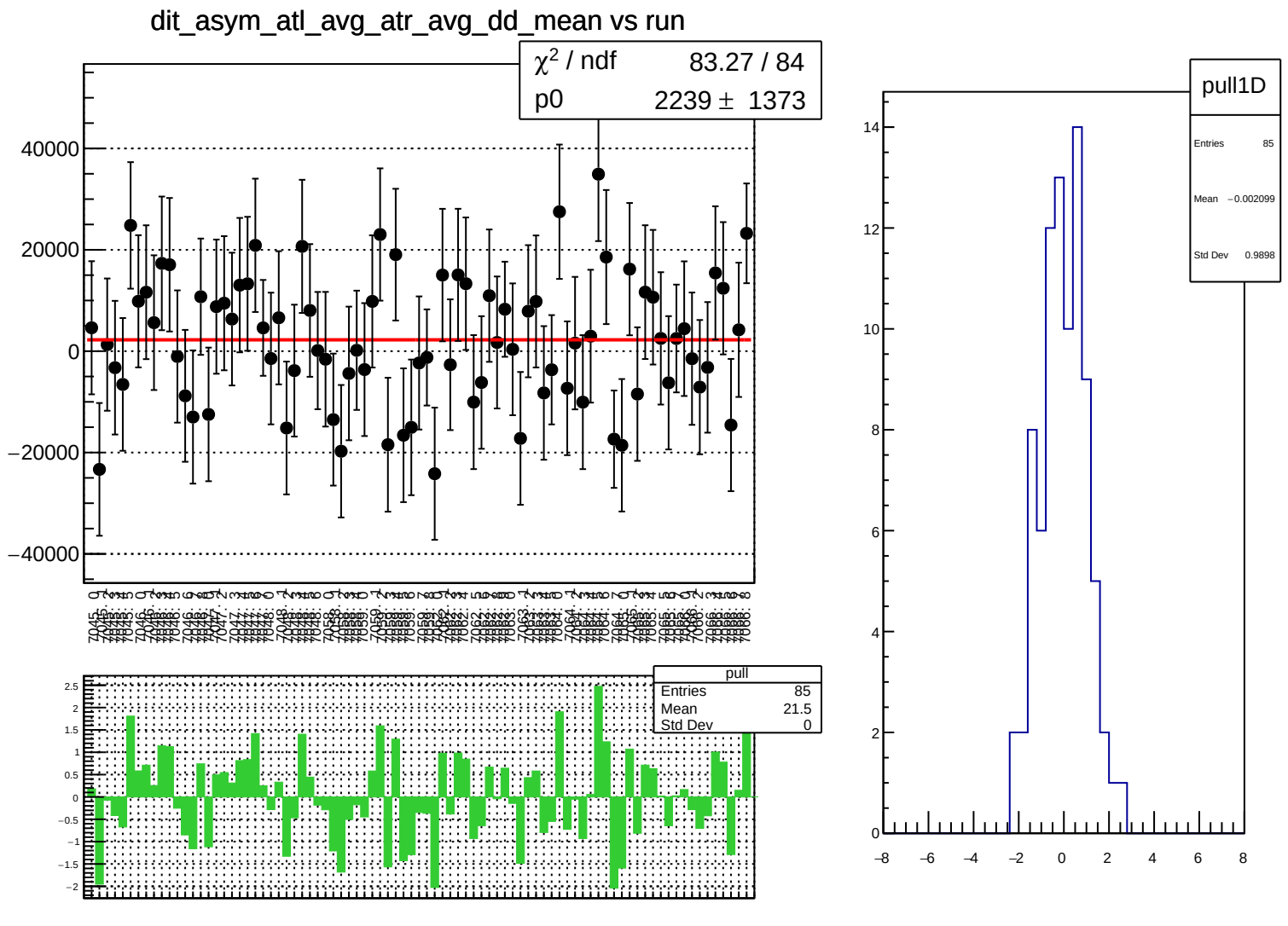

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.03 / 84
p0 2297 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −100.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.001789
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

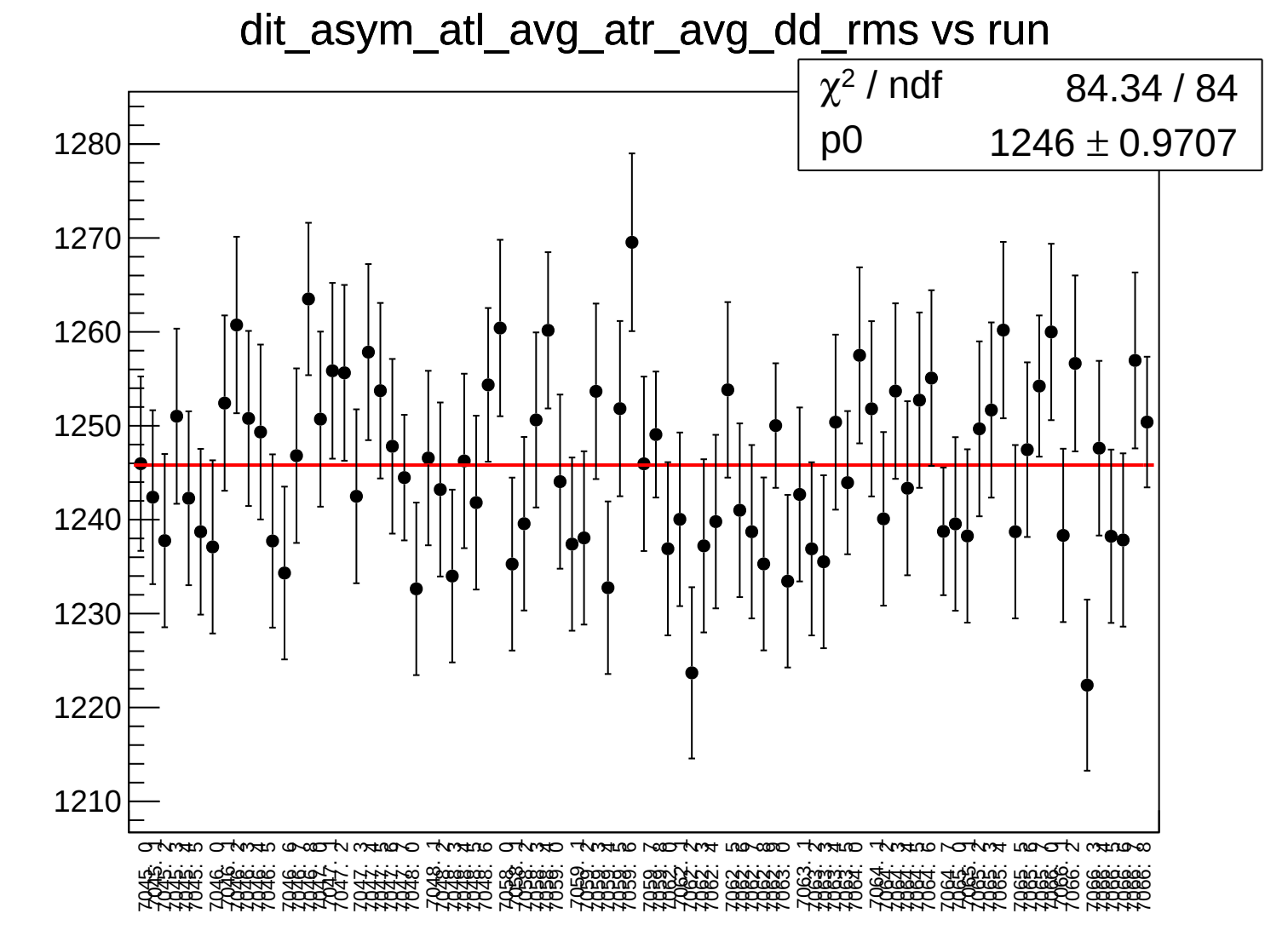

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 85.61 / 84
p0 1245 ± 0.9699
1280
1270
1260
1250
1240
1230
1220
1210

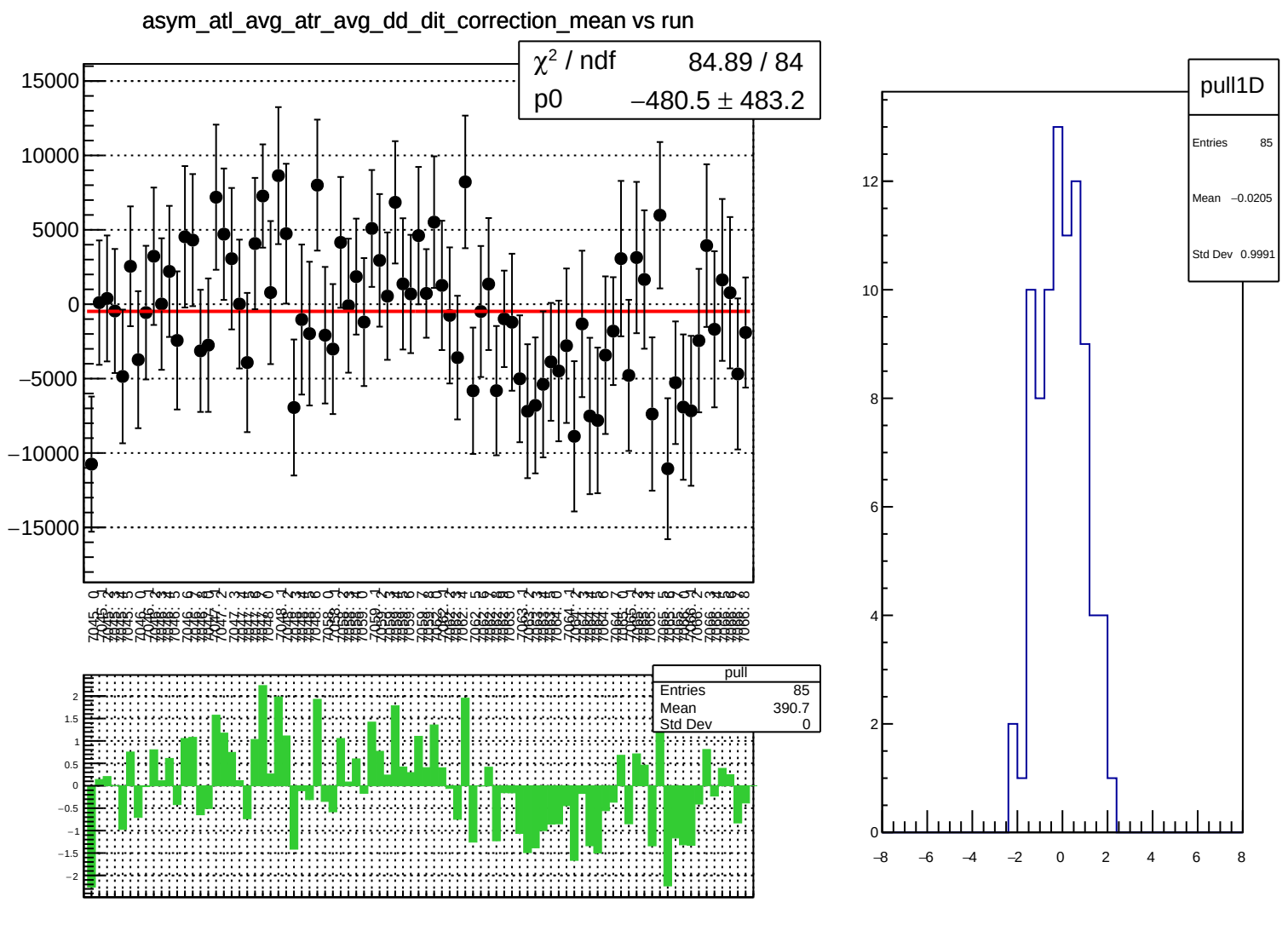

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.68 / 84
p0 −445.7 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 430.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

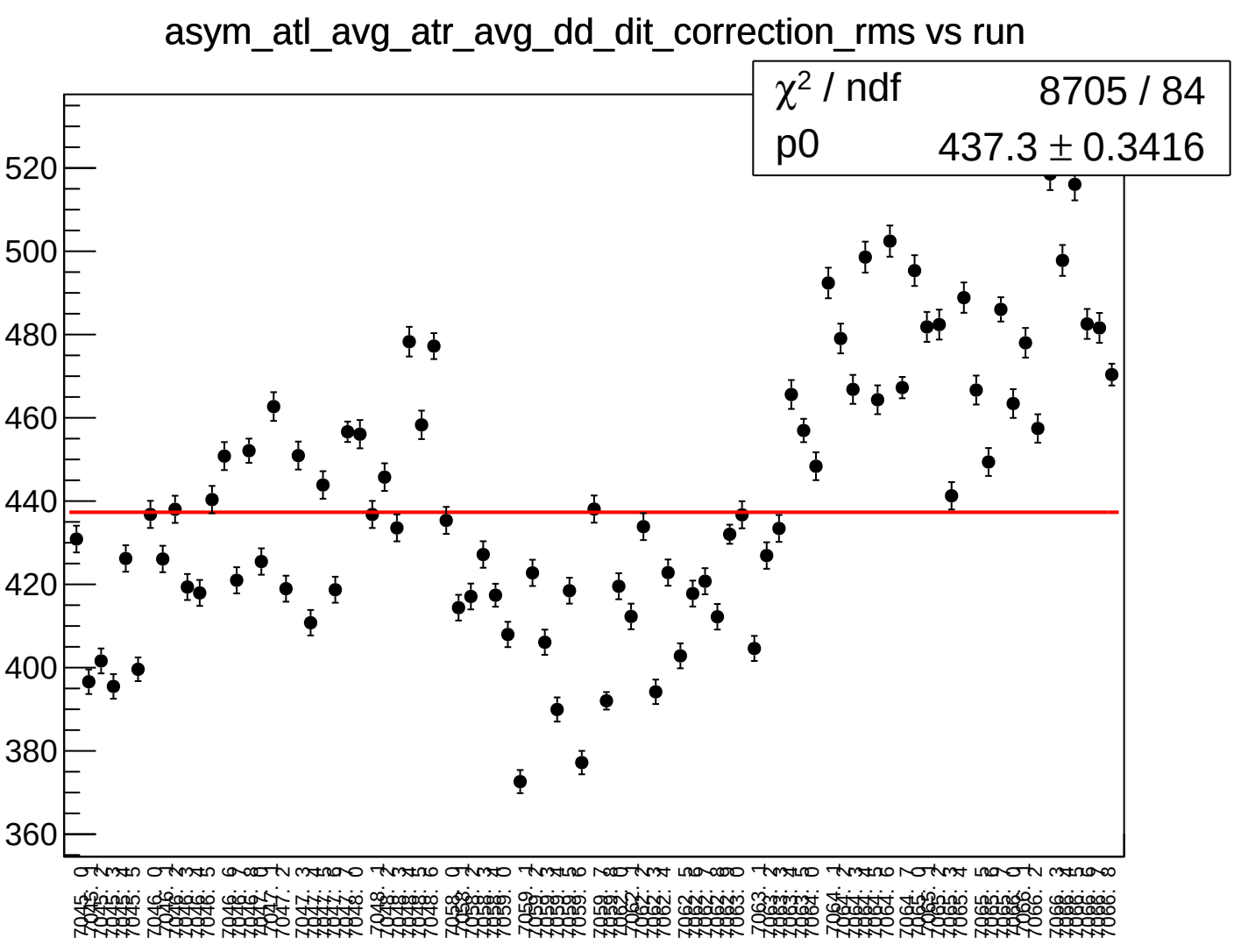

pull1D
Entries 85
Mean −0.01877
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

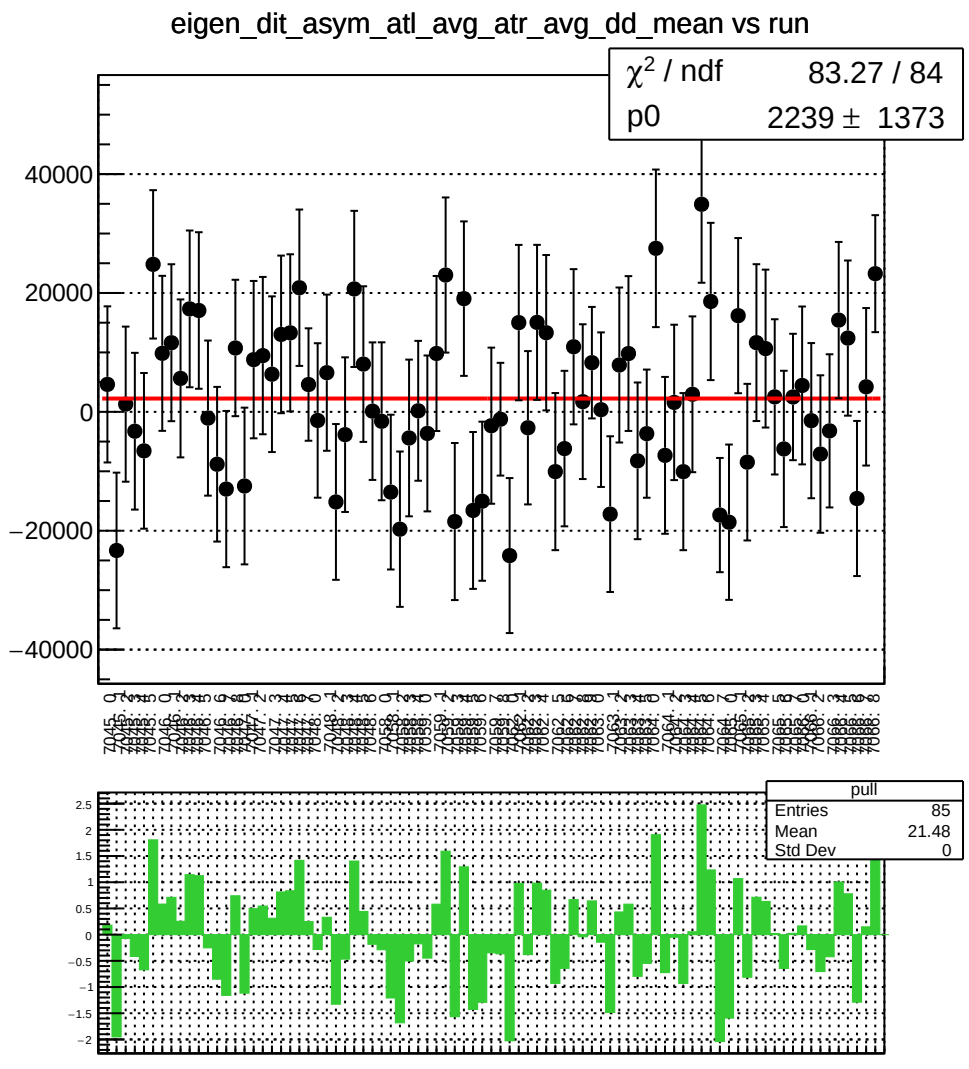

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 397.2 ± 0.3104
480
460
440
420
400
380
360
340
320

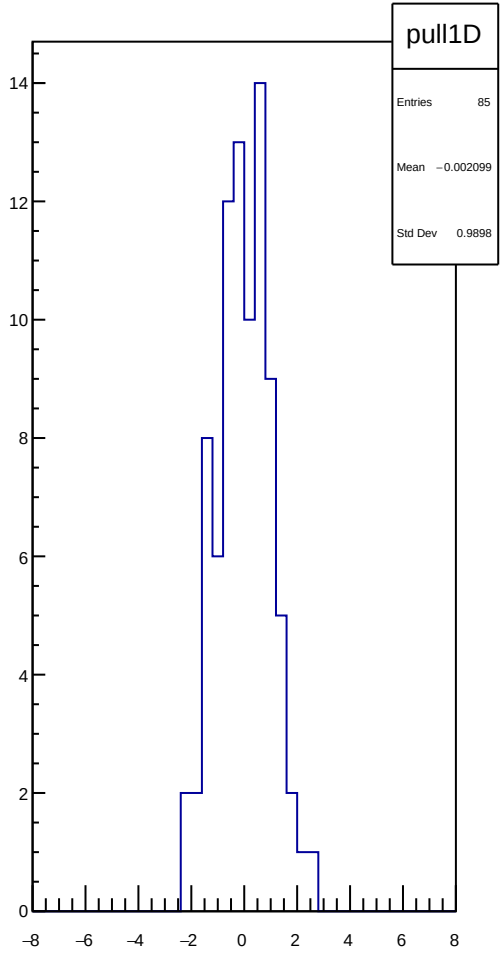

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.27 / 84
p0 2239 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 21.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.002099
Std Dev 0.9898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

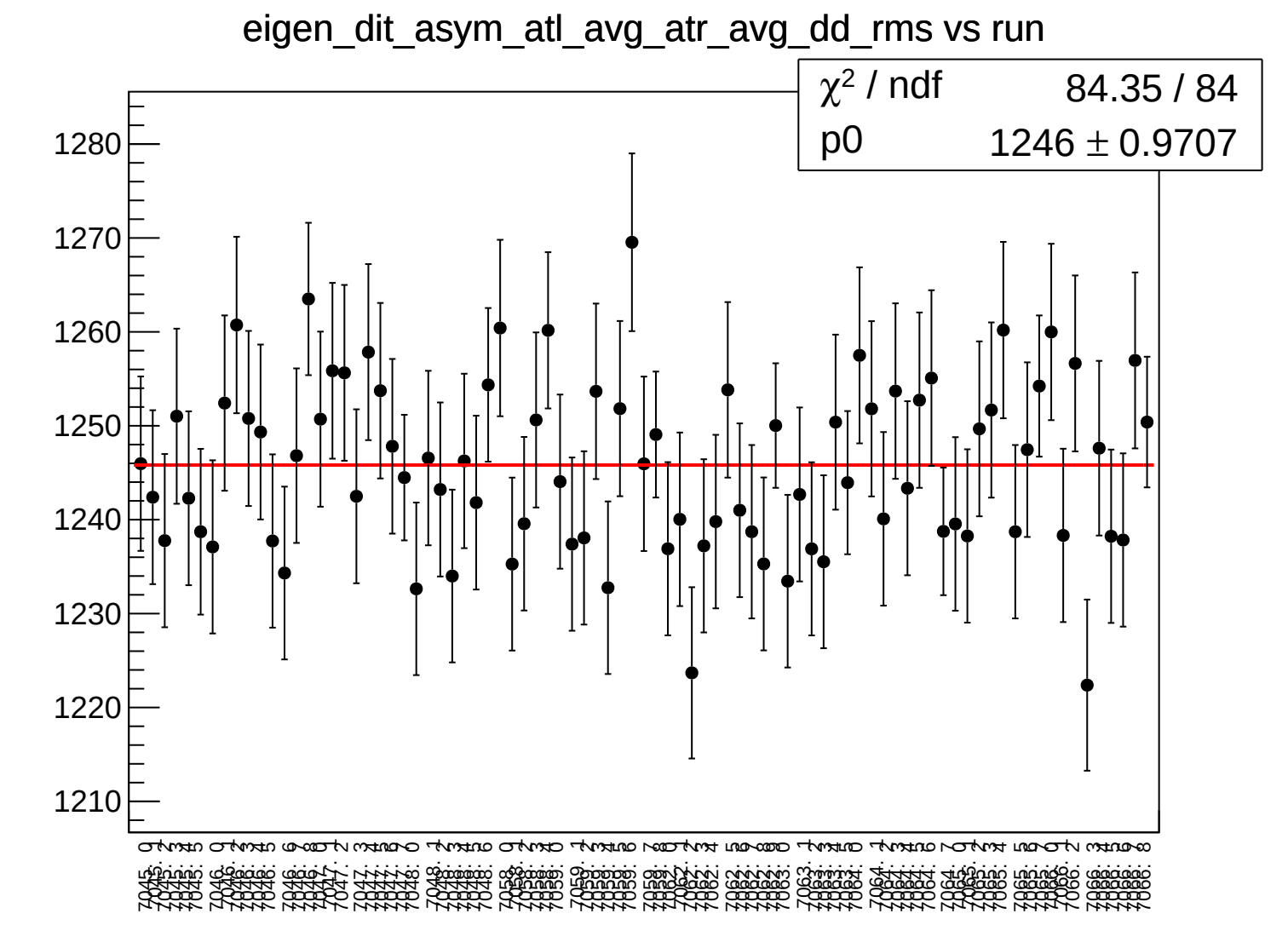

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 84.34 / 84
p0 1246 ± 0.9707
1280
1270
1260
1250
1240
1230
1220
1210

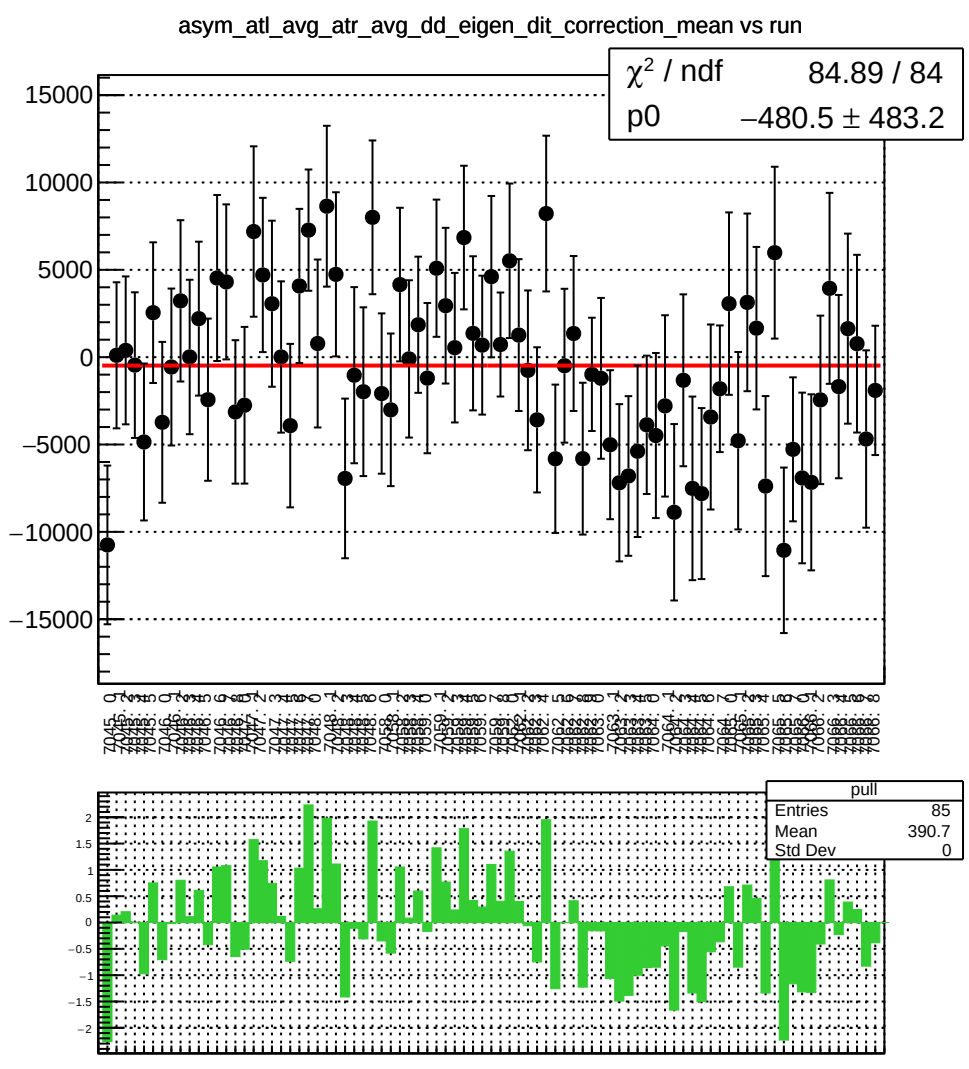

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 84.89 / 84
p0 −480.5 ± 483.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 390.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.0205
Std Dev 0.9991
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

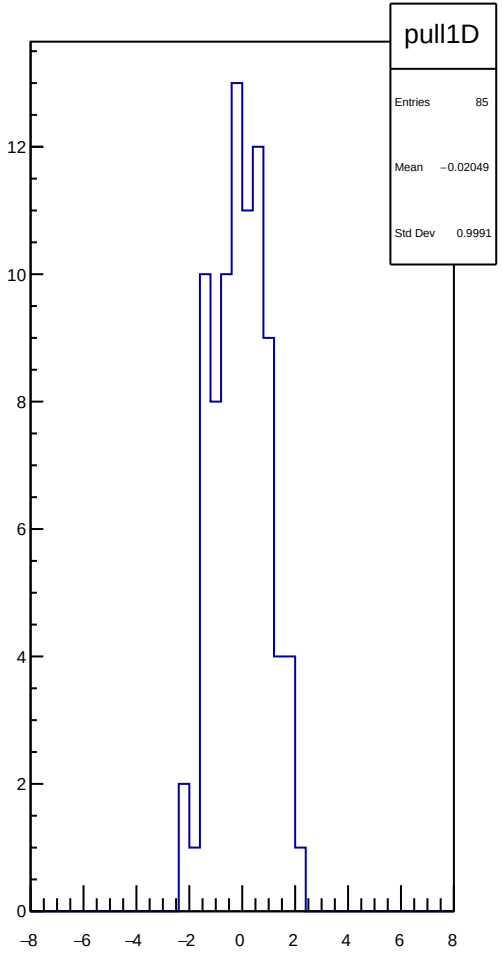

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 8705 / 84
p0 437.3 ± 0.3416
520
500
480
460
440
420
400
380
360

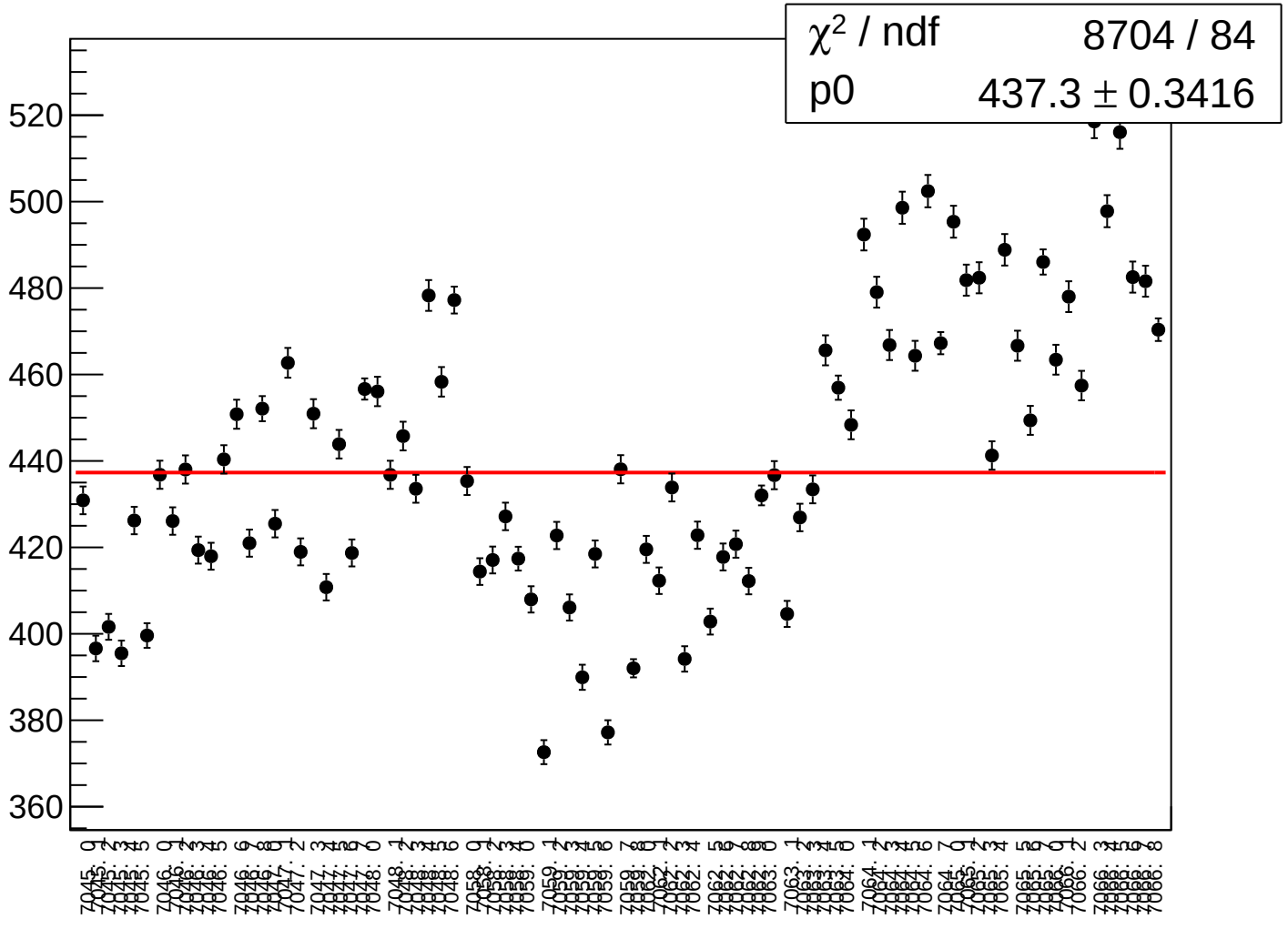

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.27 / 84
p0 2239 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 21.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

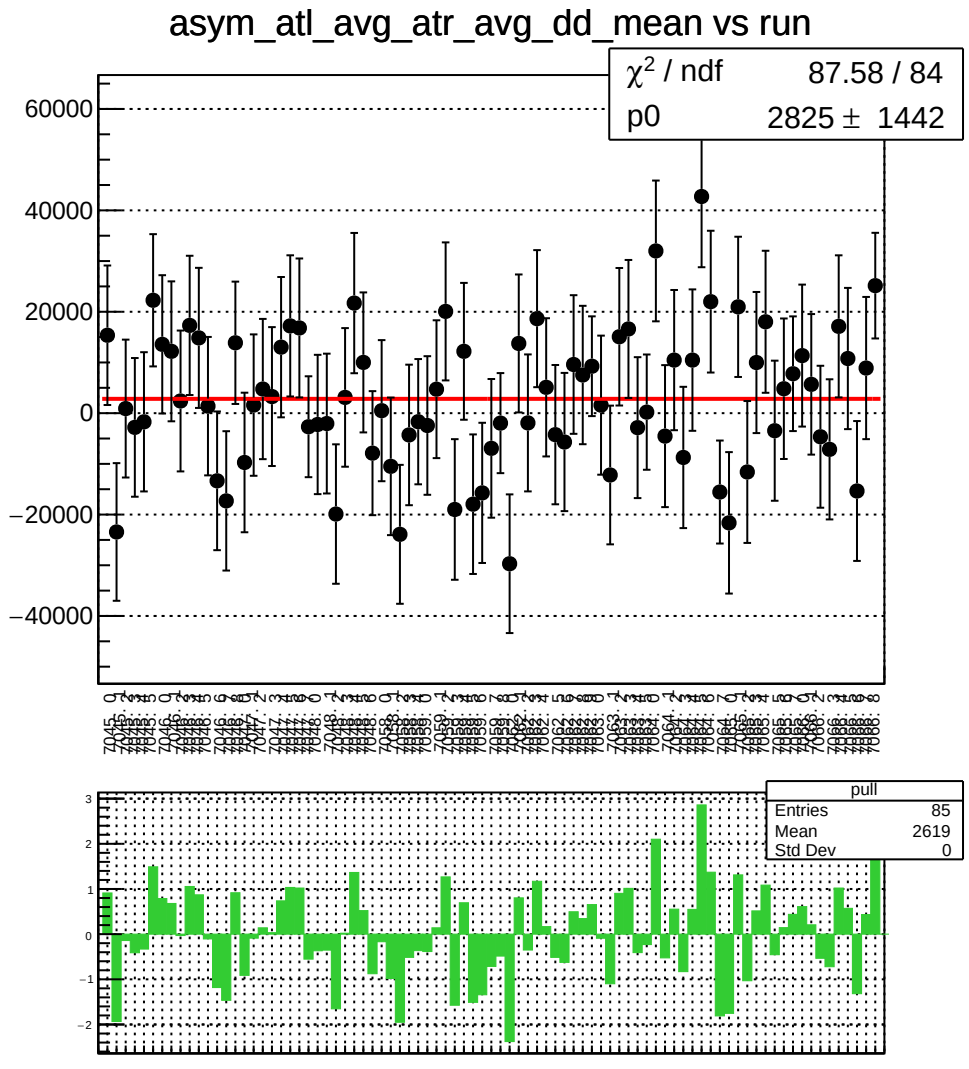

pull1D
Entries 85
Mean −0.002099
Std Dev 0.9898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

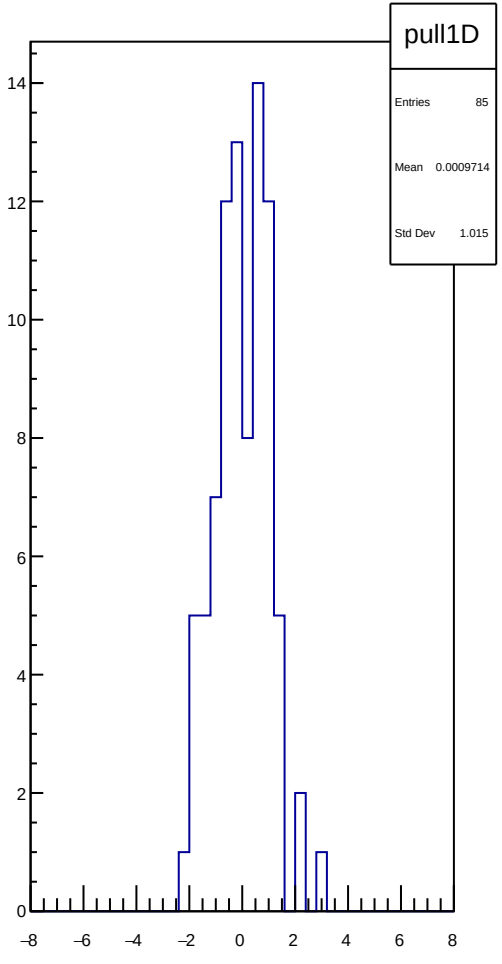

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 84.35 / 84
p0 1246 ± 0.9707
1280
1270
1260
1250
1240
1230
1220
1210

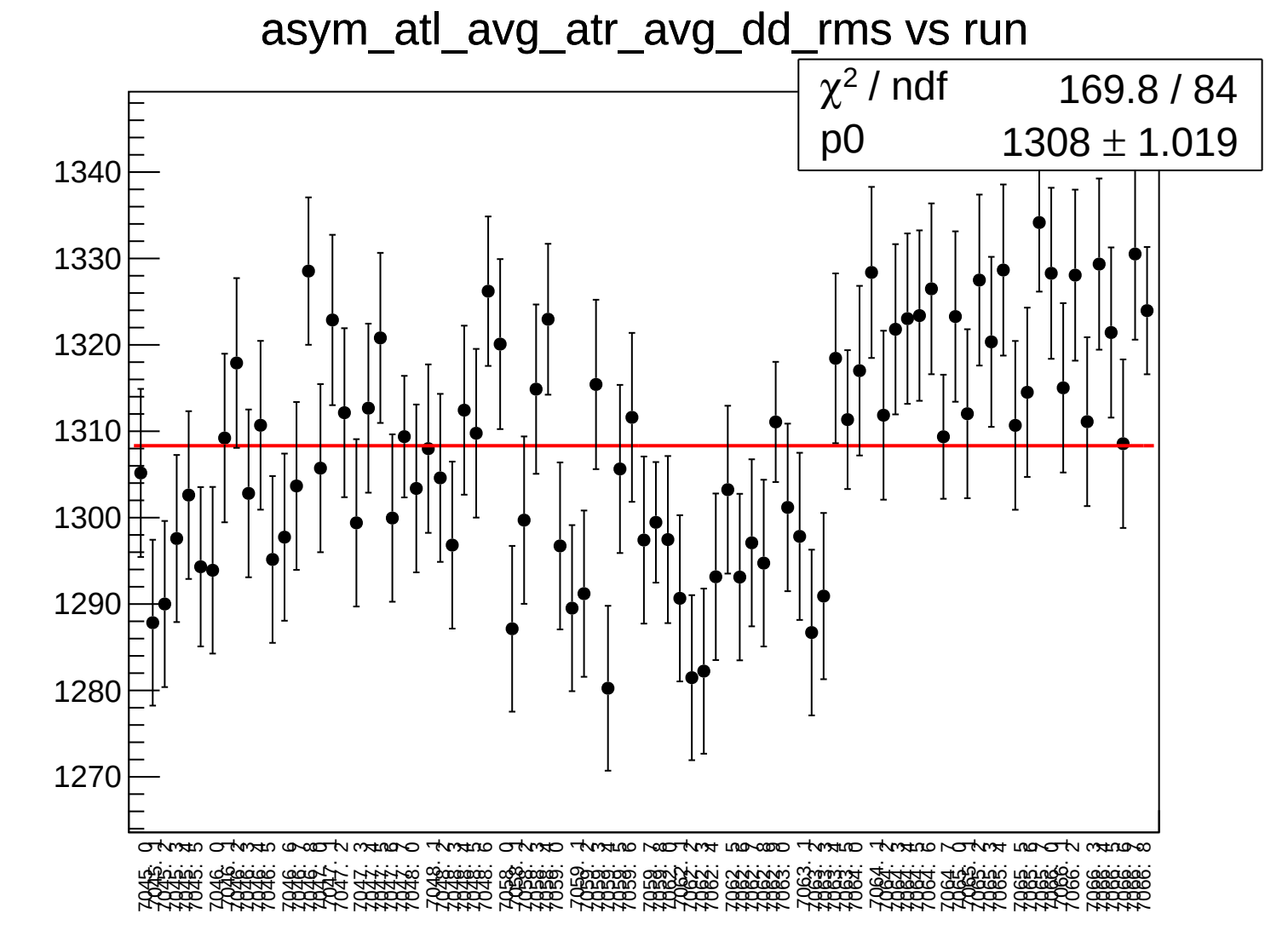

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.89 / 84
p0 −480.5 ± 483.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 390.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

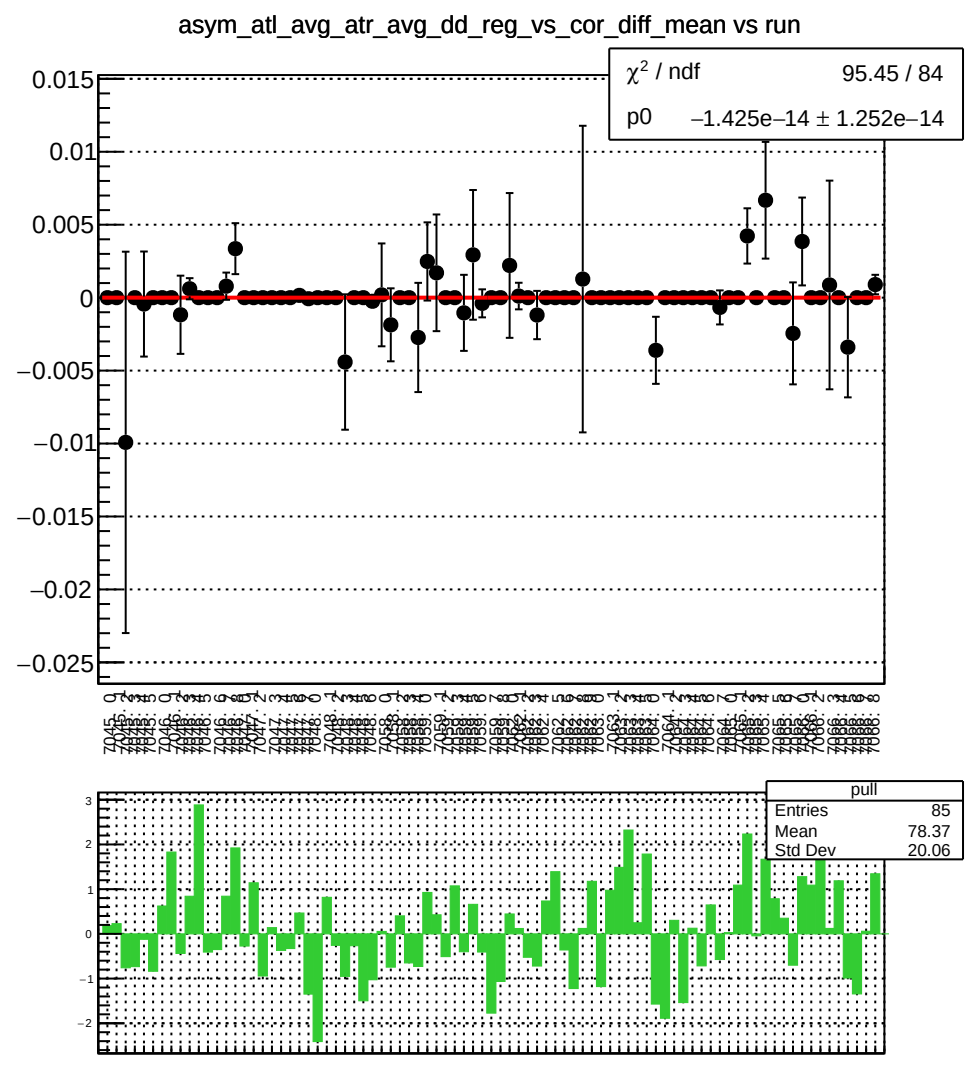

pull1D
Entries 85
Mean −0.02049
Std Dev 0.9991
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

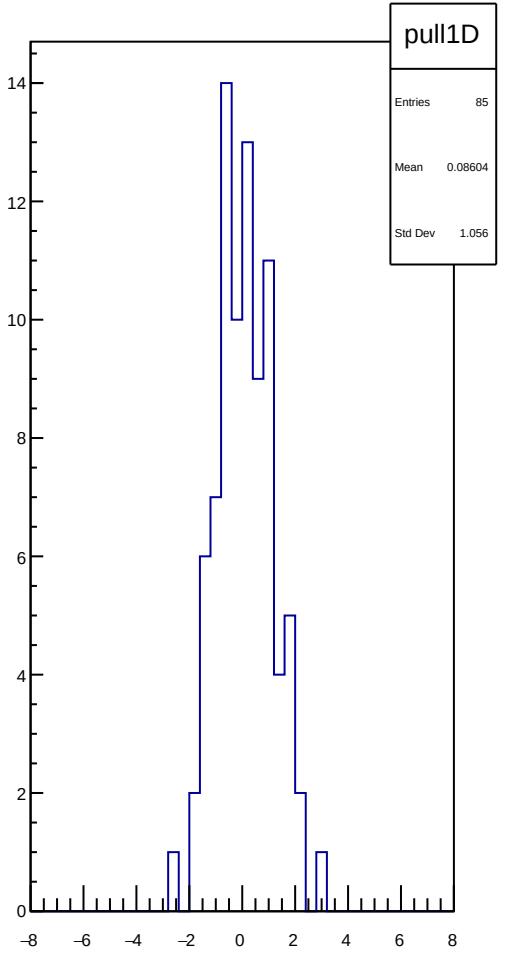

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8704 / 84
p0 437.3 ± 0.3416
520
500
480
460
440
420
400
380
360

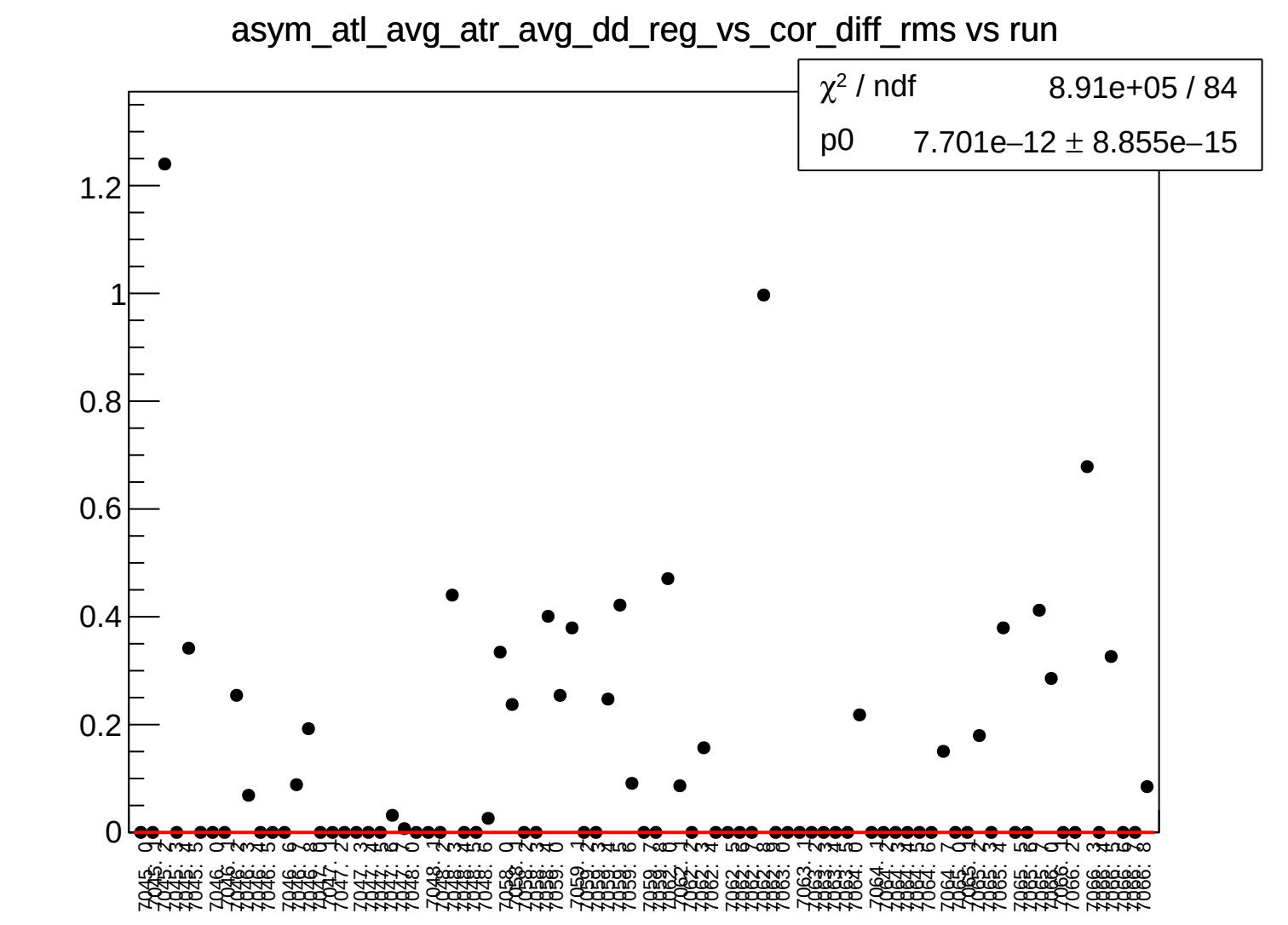

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 87.58 / 84
p0 2825 ± 1442
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 2619
Std Dev 0
3
2
1
0
−1
−2

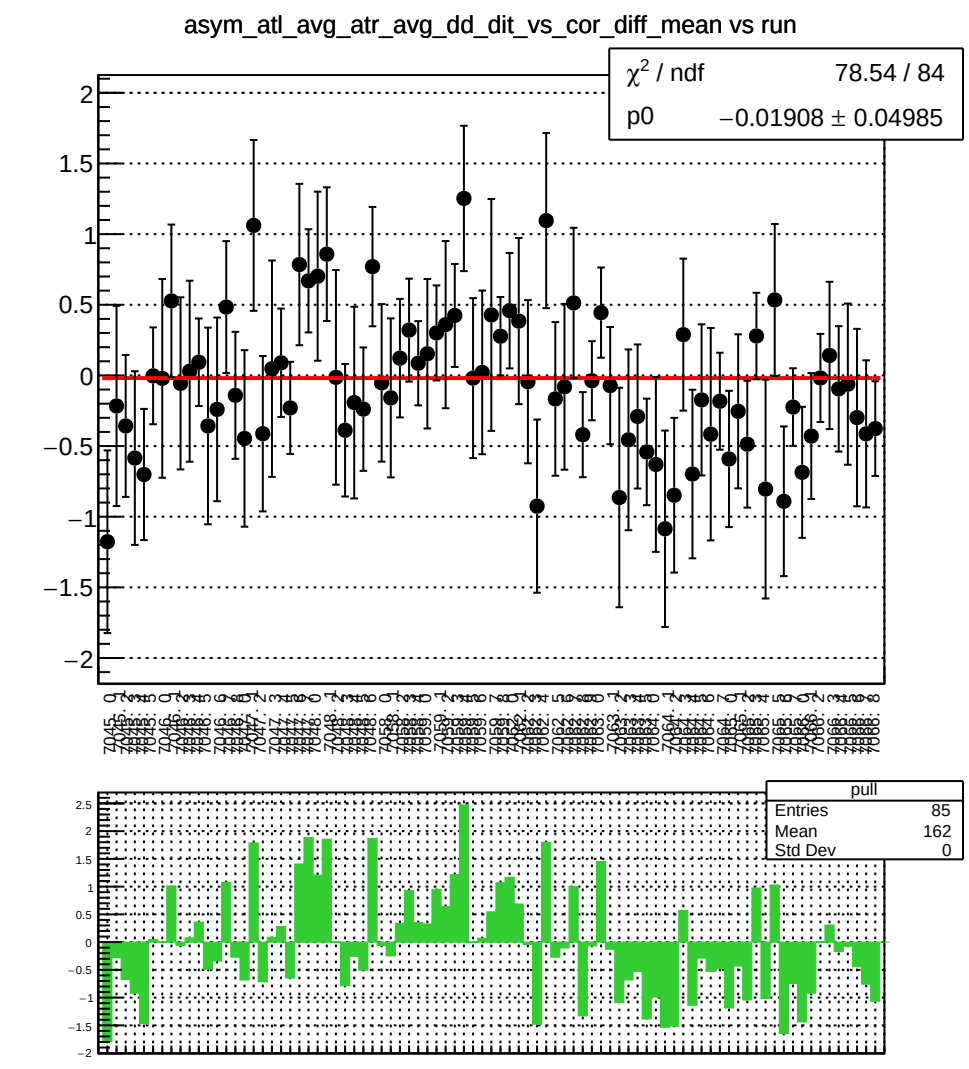

pull1D
Entries 85
Mean 0.0009714
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

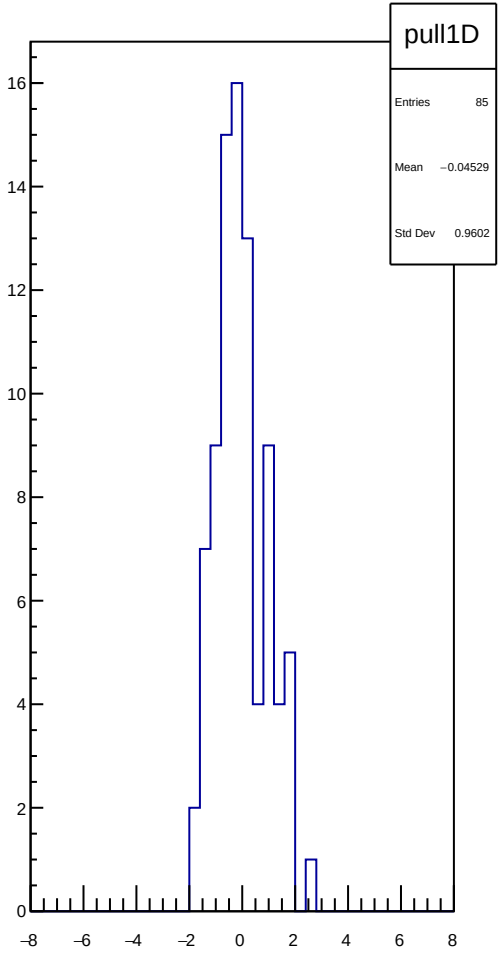

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 169.8 / 84
p0 1308 ± 1.019
1340
1330
1320
1310
1300
1290
1280
1270

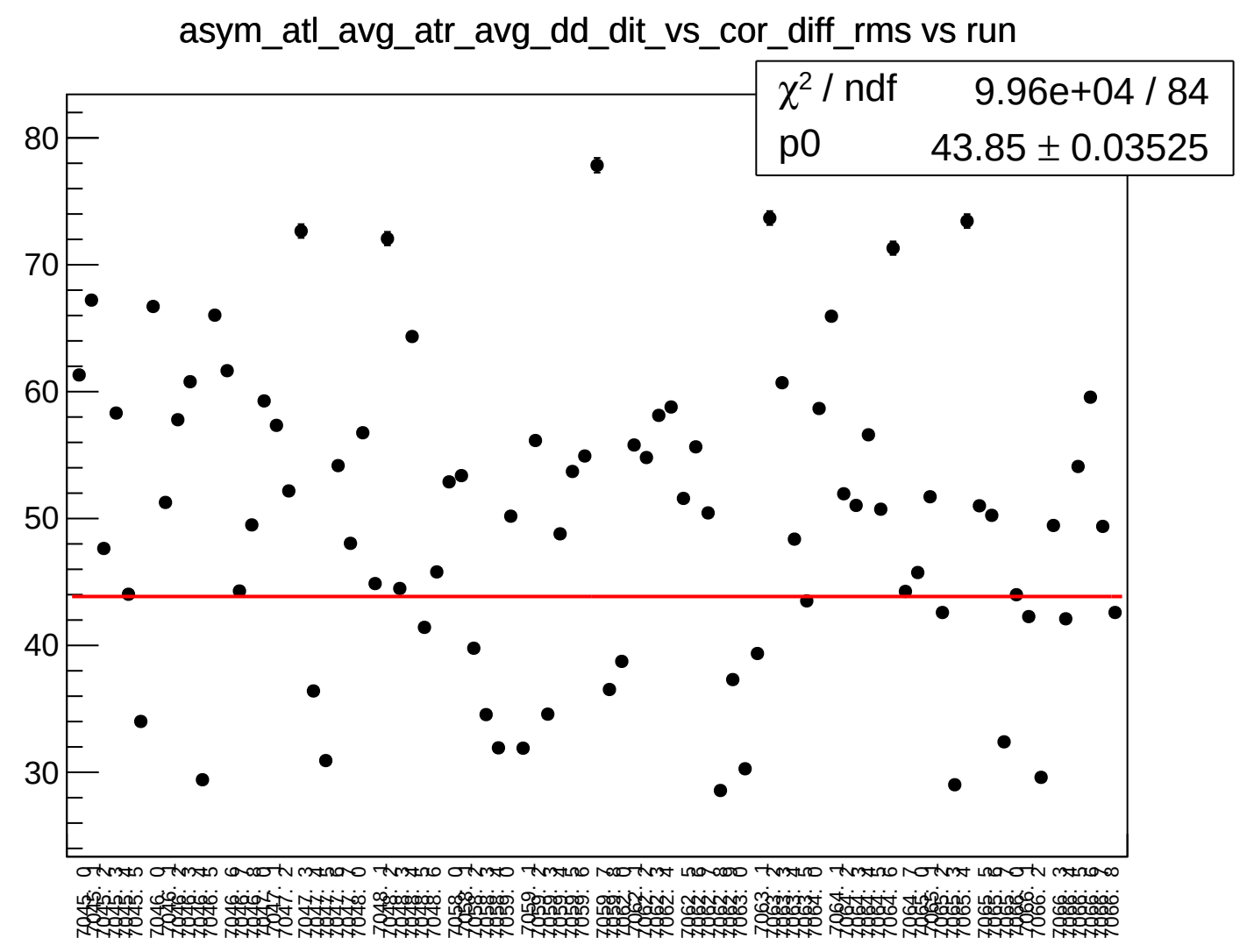

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.45 / 84
p0 −1.425e−14 ± 1.252e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 85
Mean 78.37
Std Dev 20.06
3
2
1
0
−1
−2

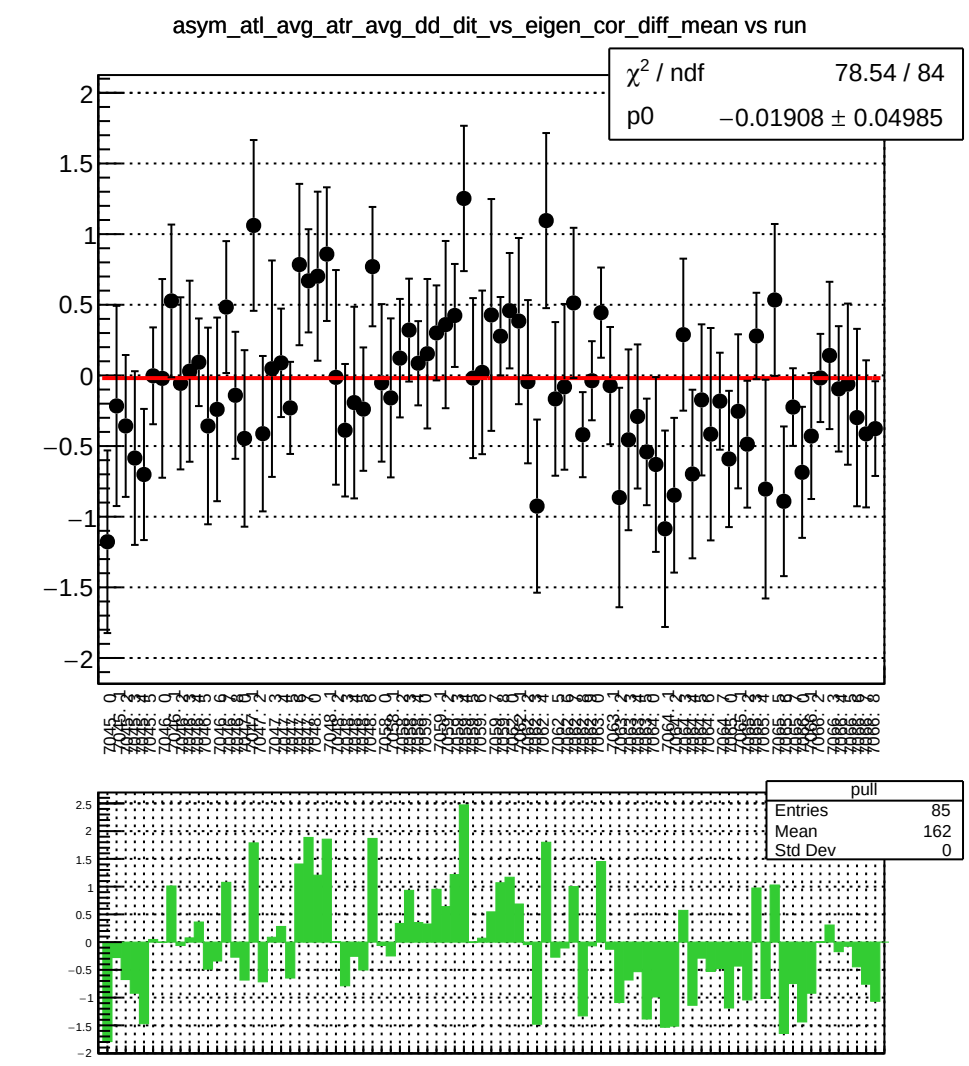

pull1D
Entries 85
Mean 0.08604
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

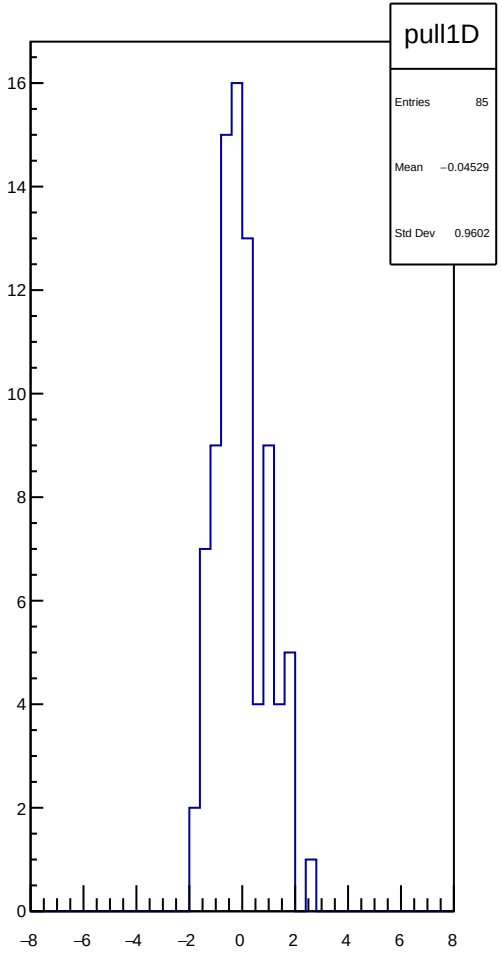

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.91e+05 / 84
p0 7.701e−12 ± 8.855e−15
1.2
1
0.8
0.6
0.4
0.2
0

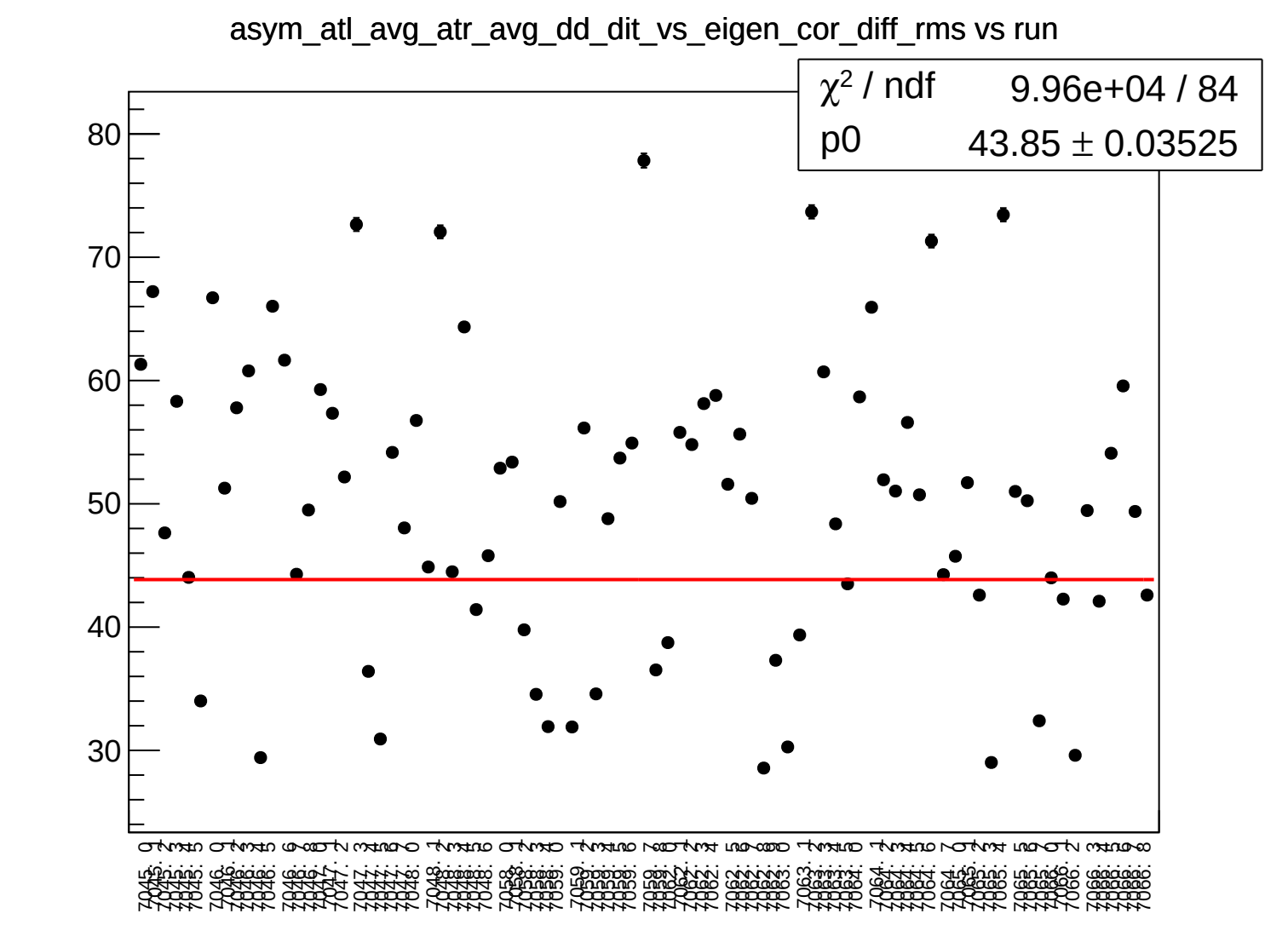

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01908 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0

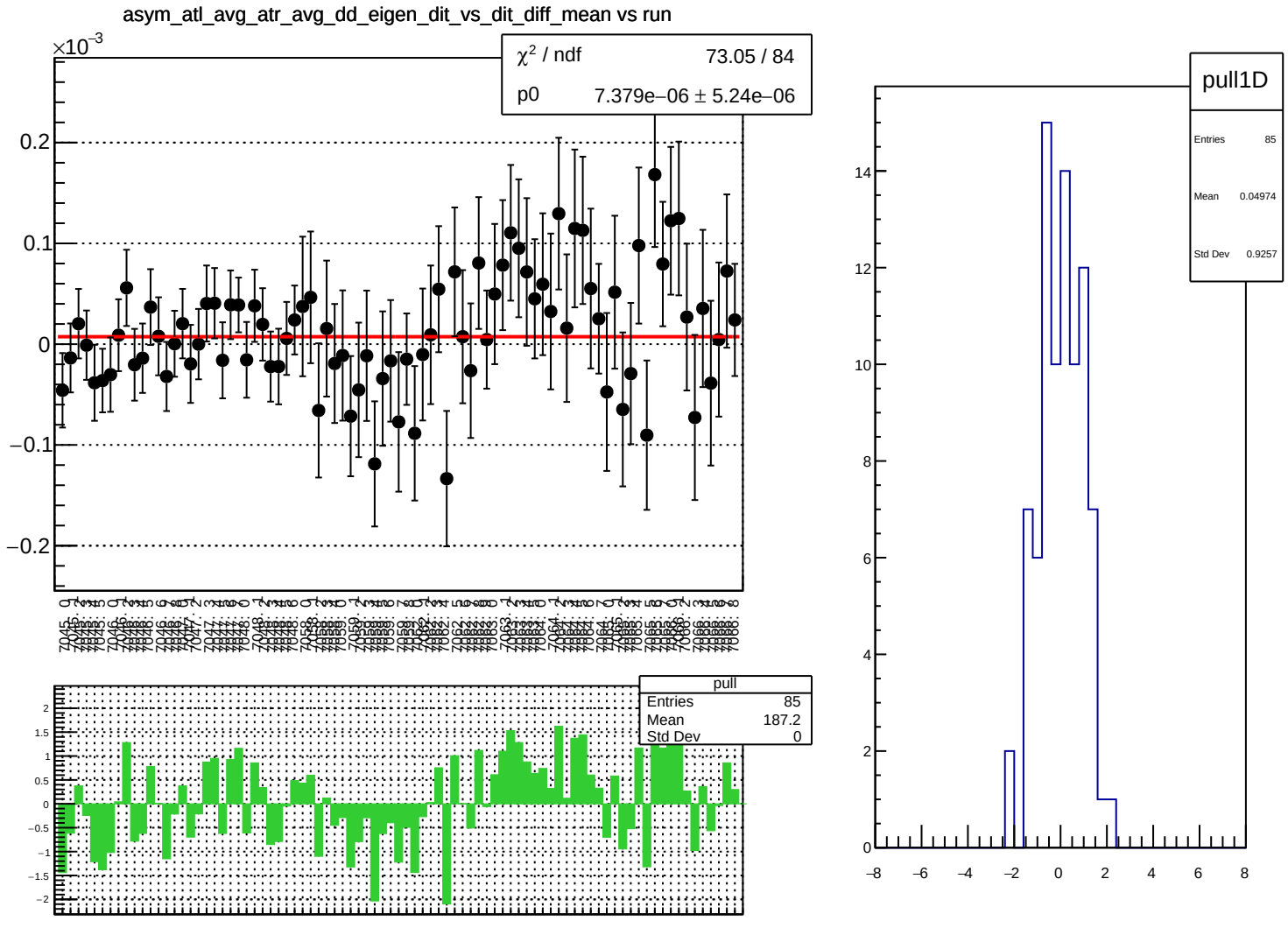

pull1D
Entries 85
Mean −0.04529
Std Dev 0.9602

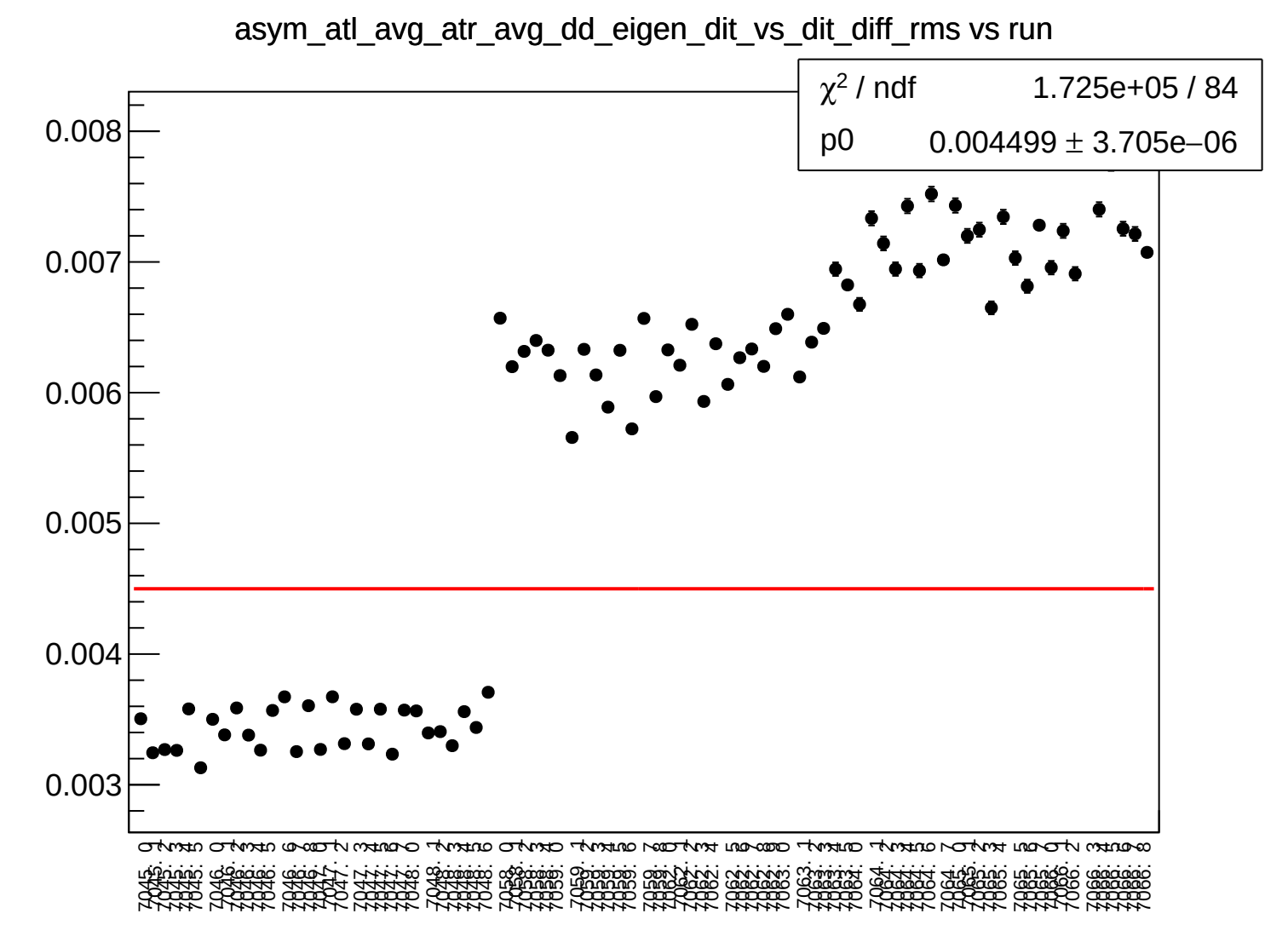

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.96e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

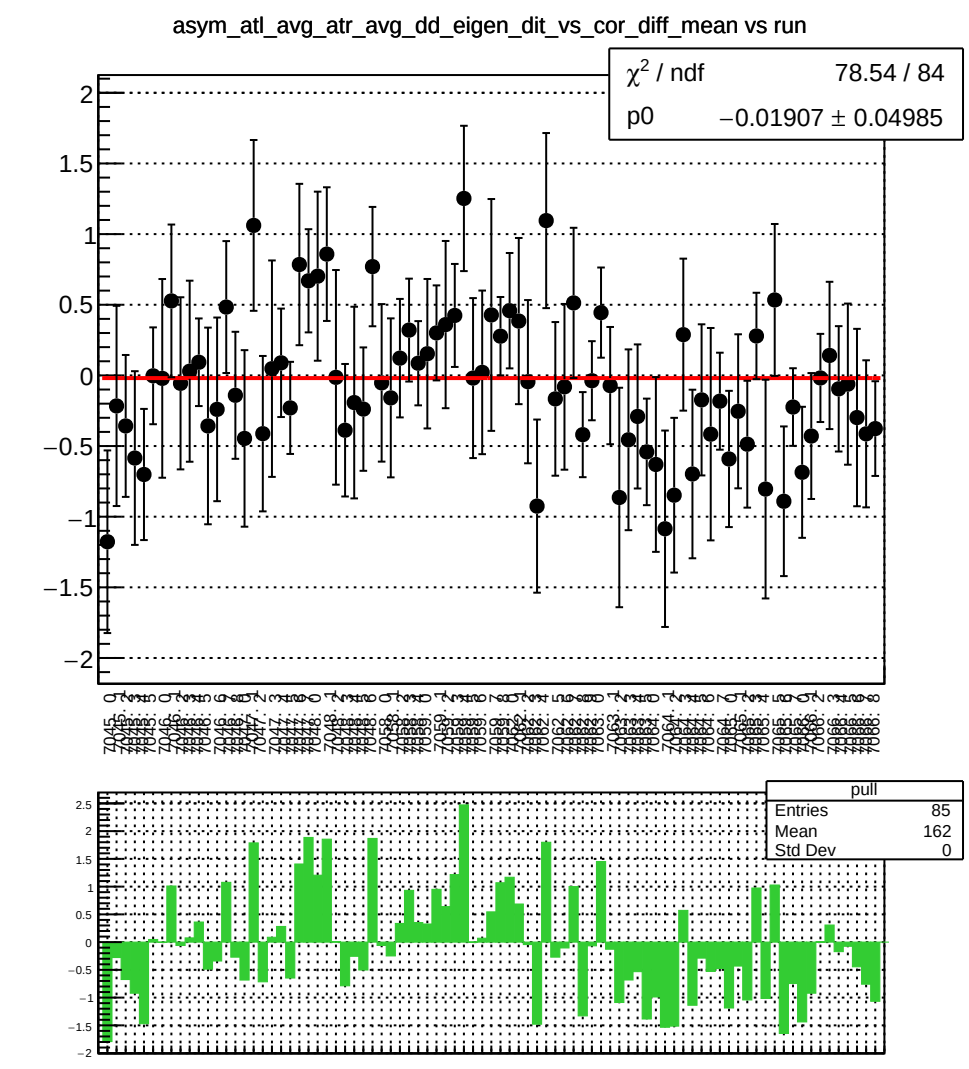

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01908 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0

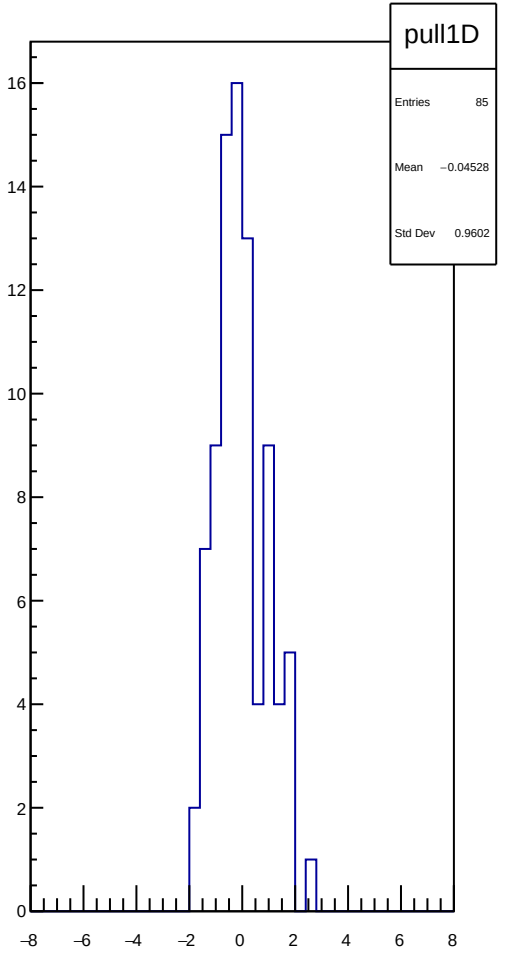

pull1D
Entries 85
Mean −0.04529
Std Dev 0.9602

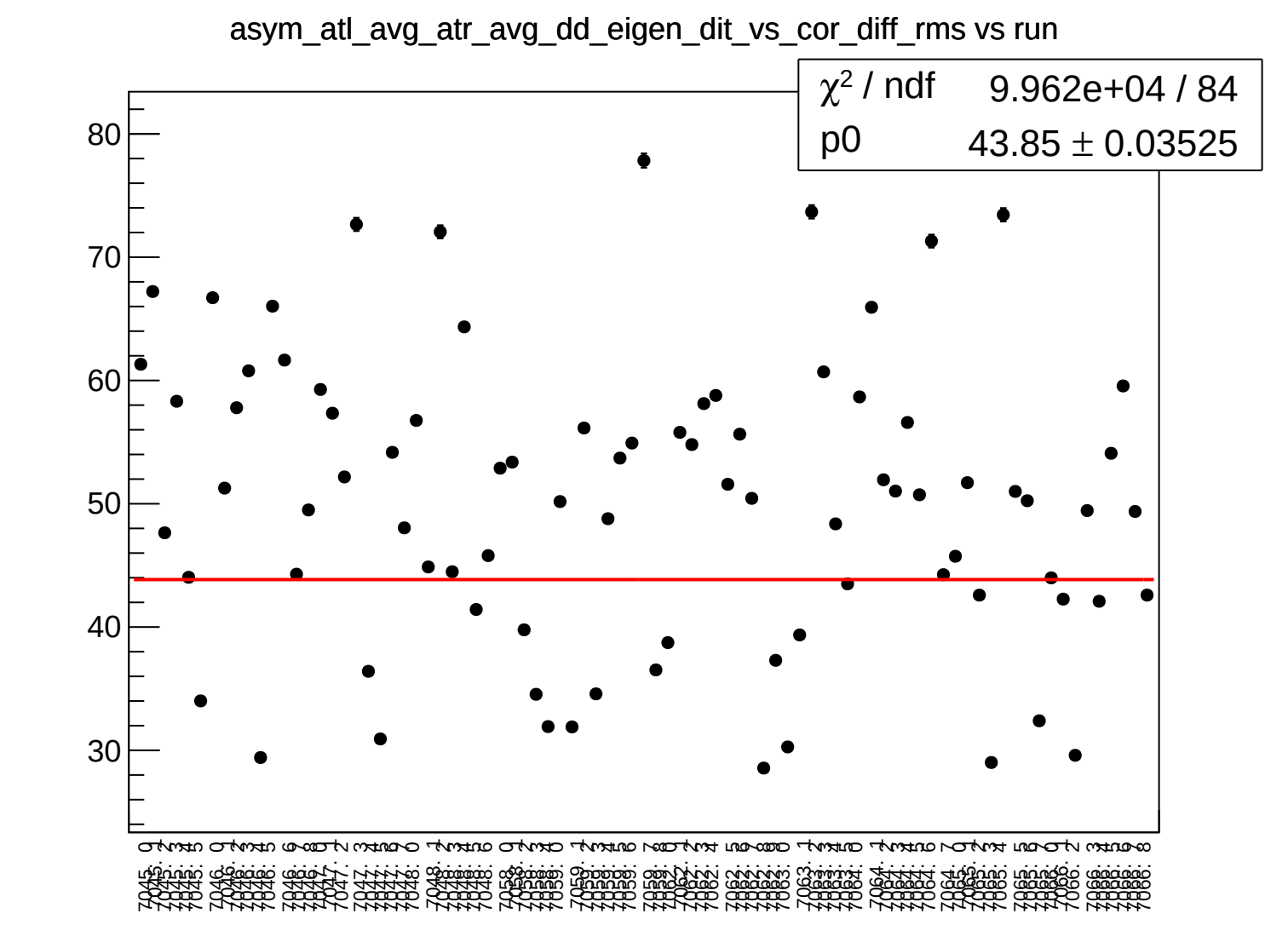

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.96e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

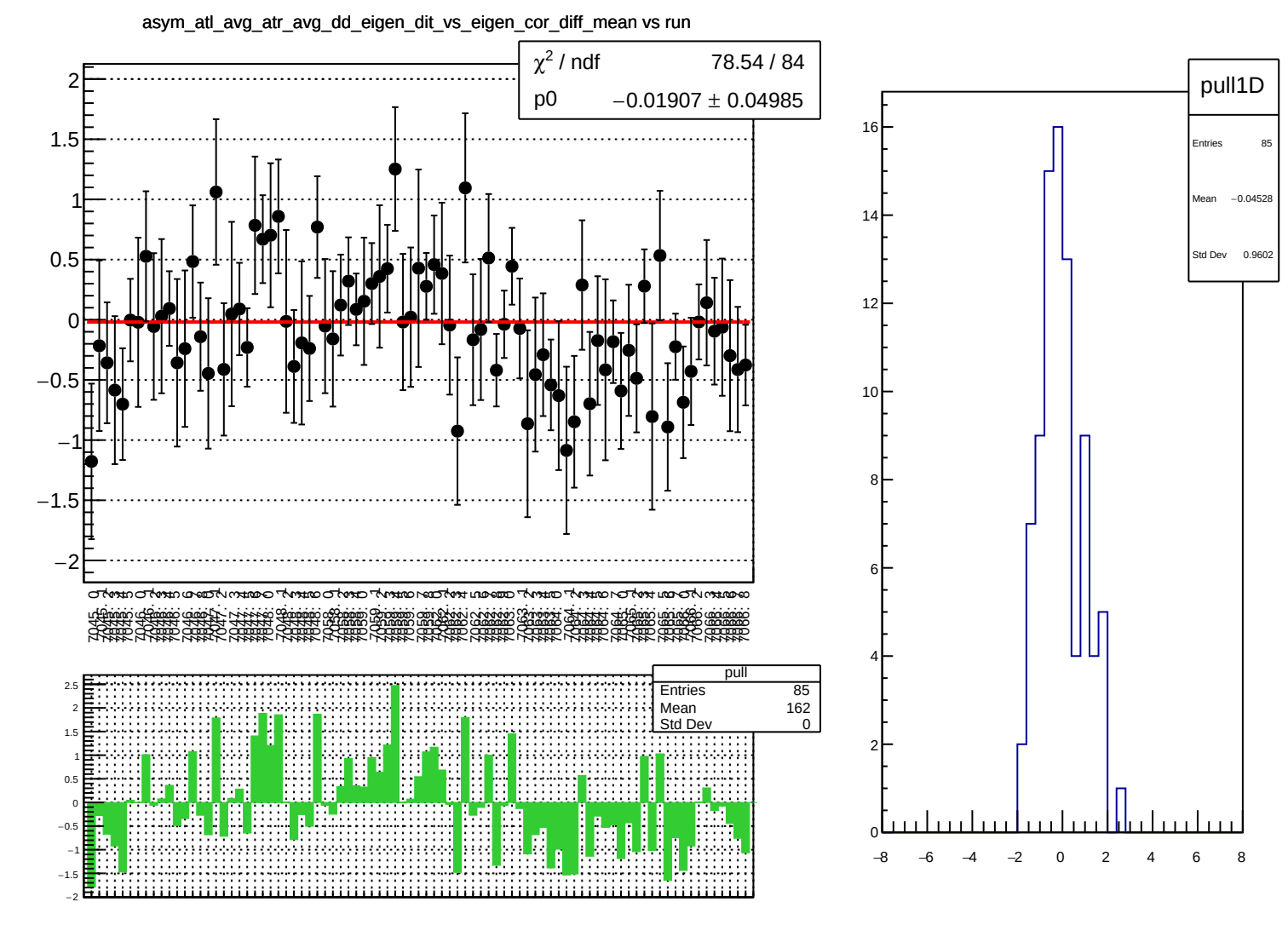

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.05 / 84
p0 7.379e−06 ± 5.24e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean 187.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.04974
Std Dev 0.9257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

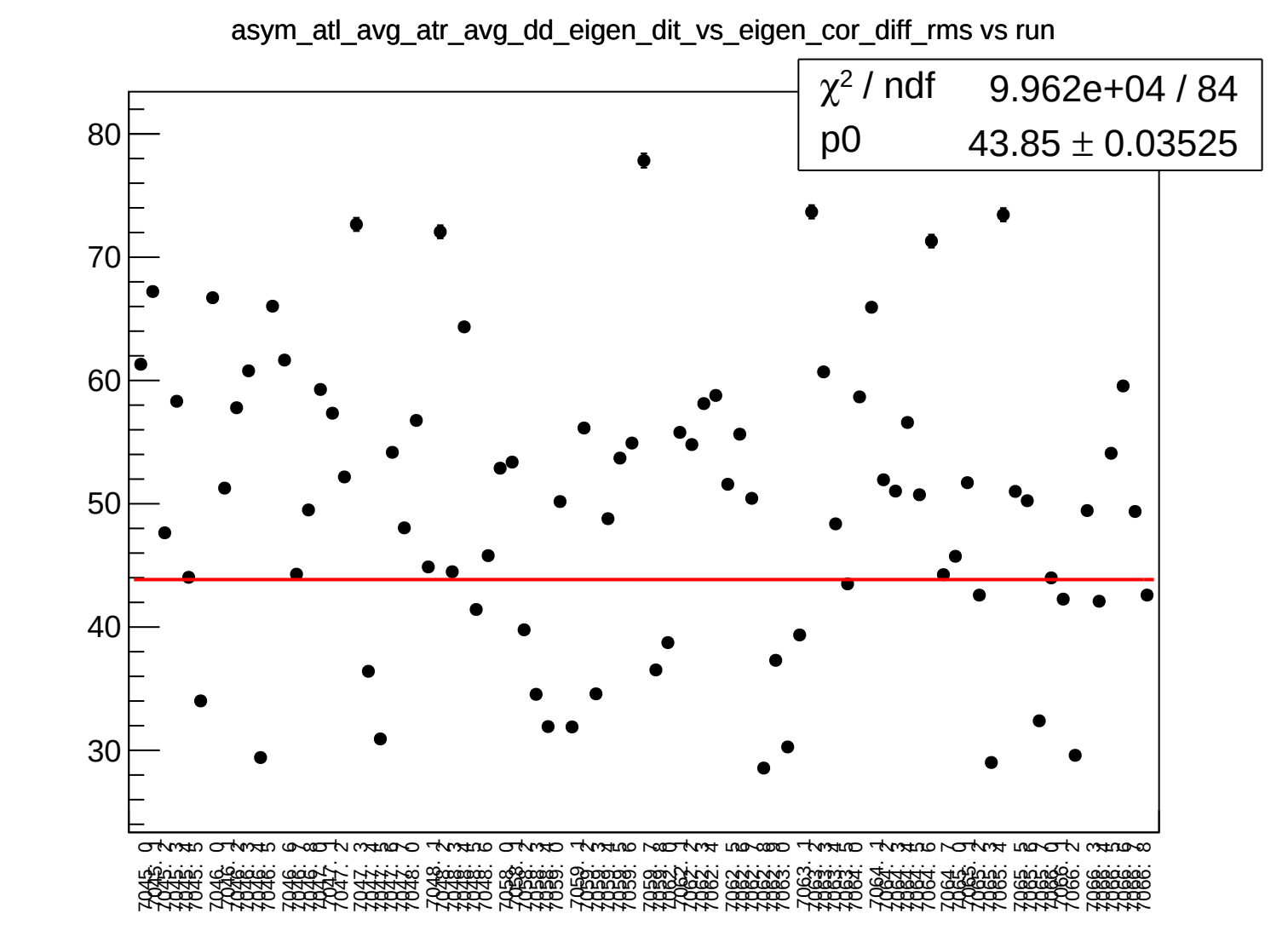

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.725e+05 / 84
p0 0.004499 ± 3.705e−06
0.008
0.007
0.006
0.005
0.004
0.003

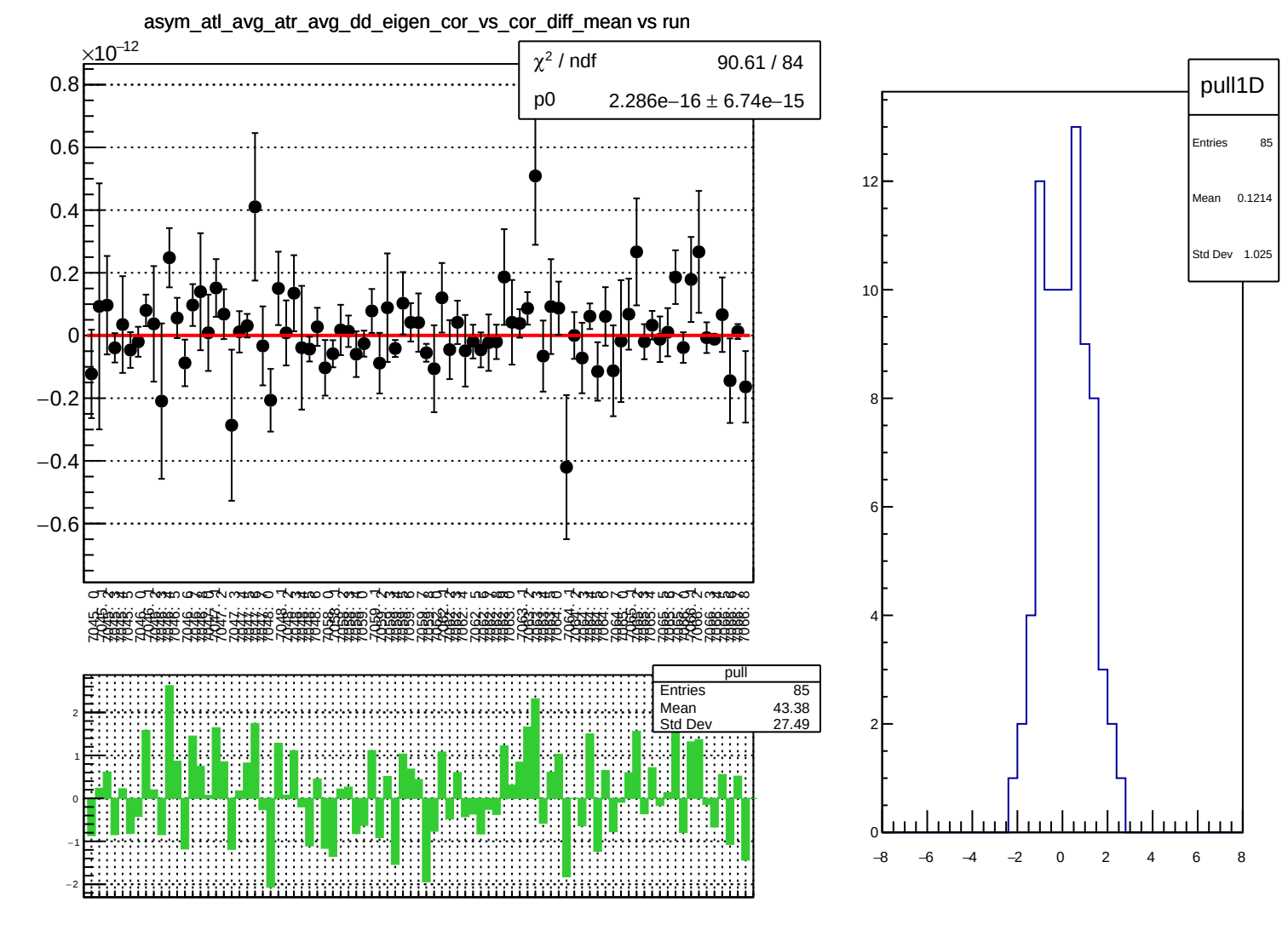

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01907 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0

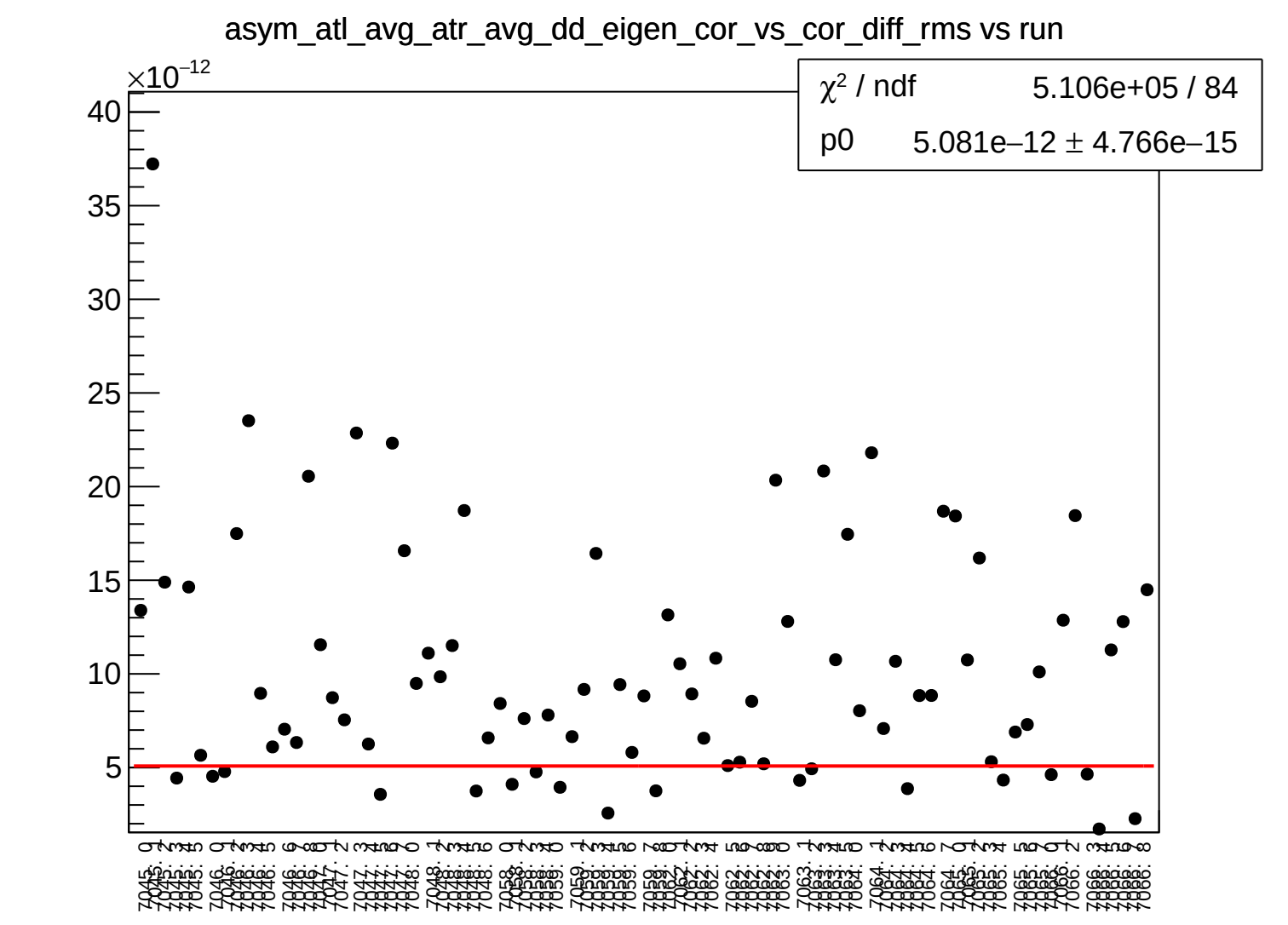

pull1D
Entries 85
Mean −0.04528
Std Dev 0.9602

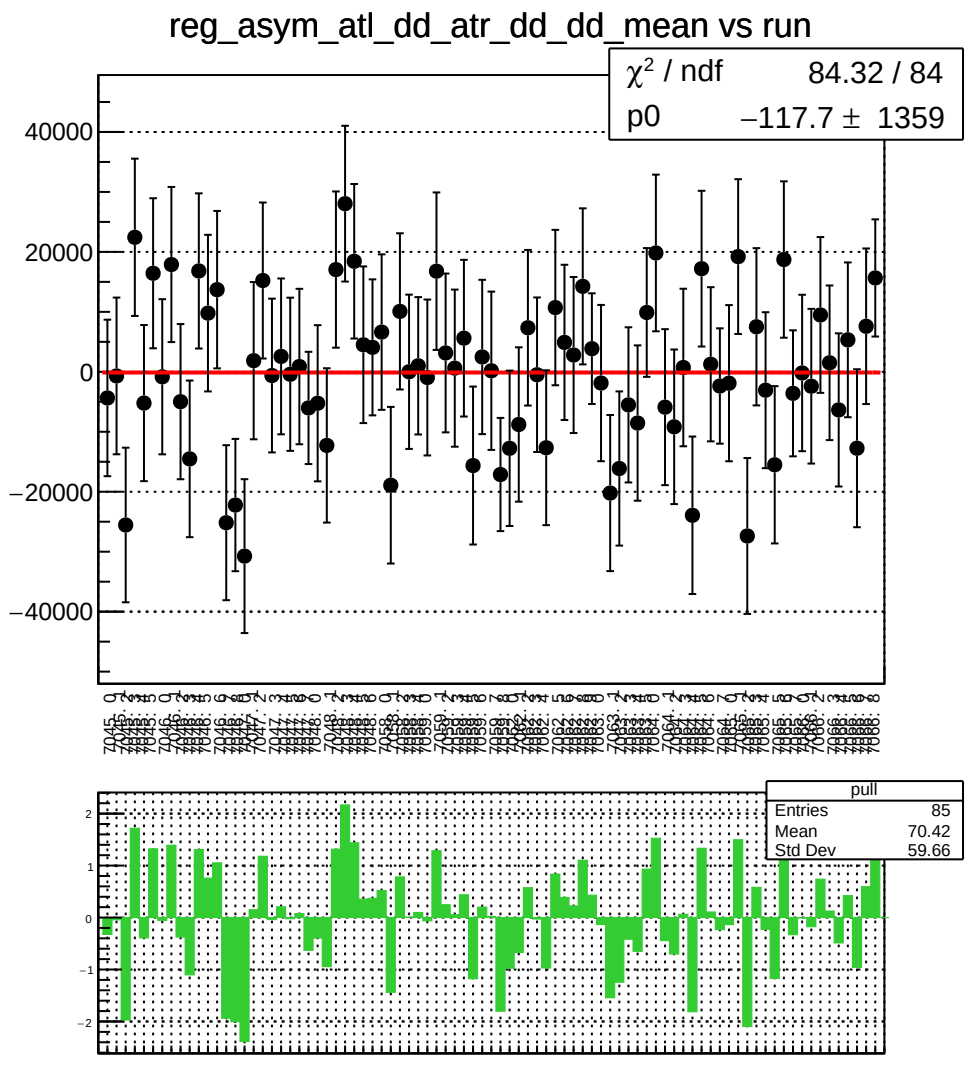

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.962e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

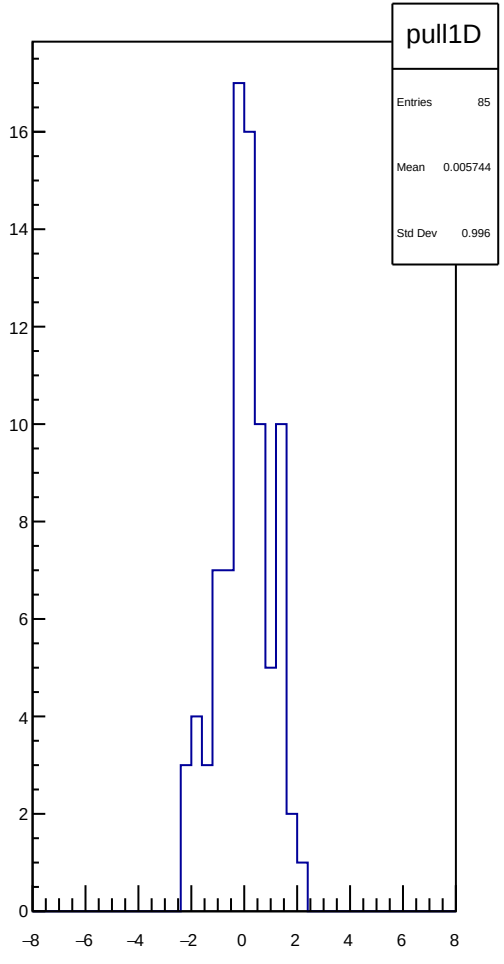

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01907 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0
pull1D
Entries 85
Mean −0.04528
Std Dev 0.9602

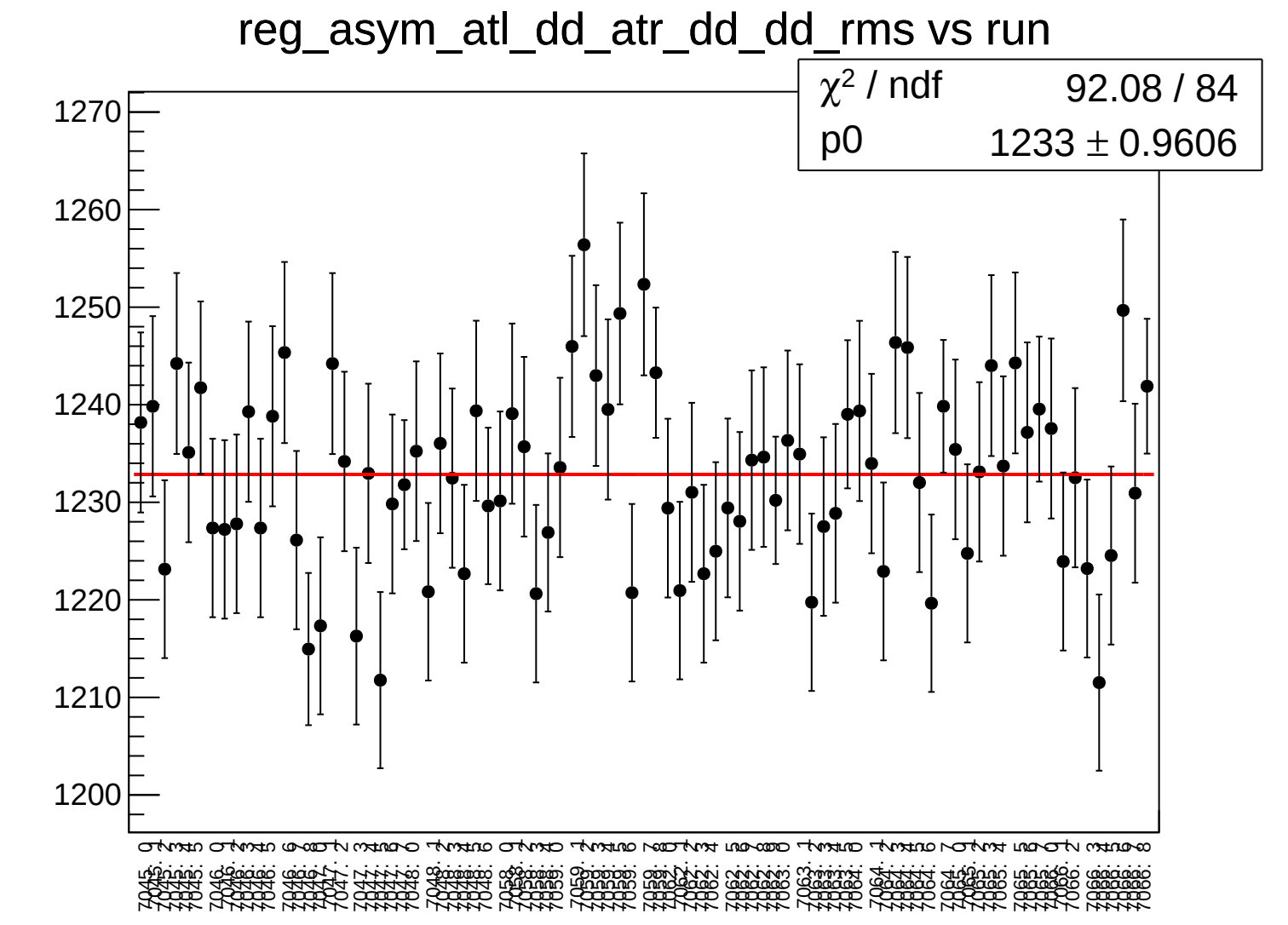

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.962e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

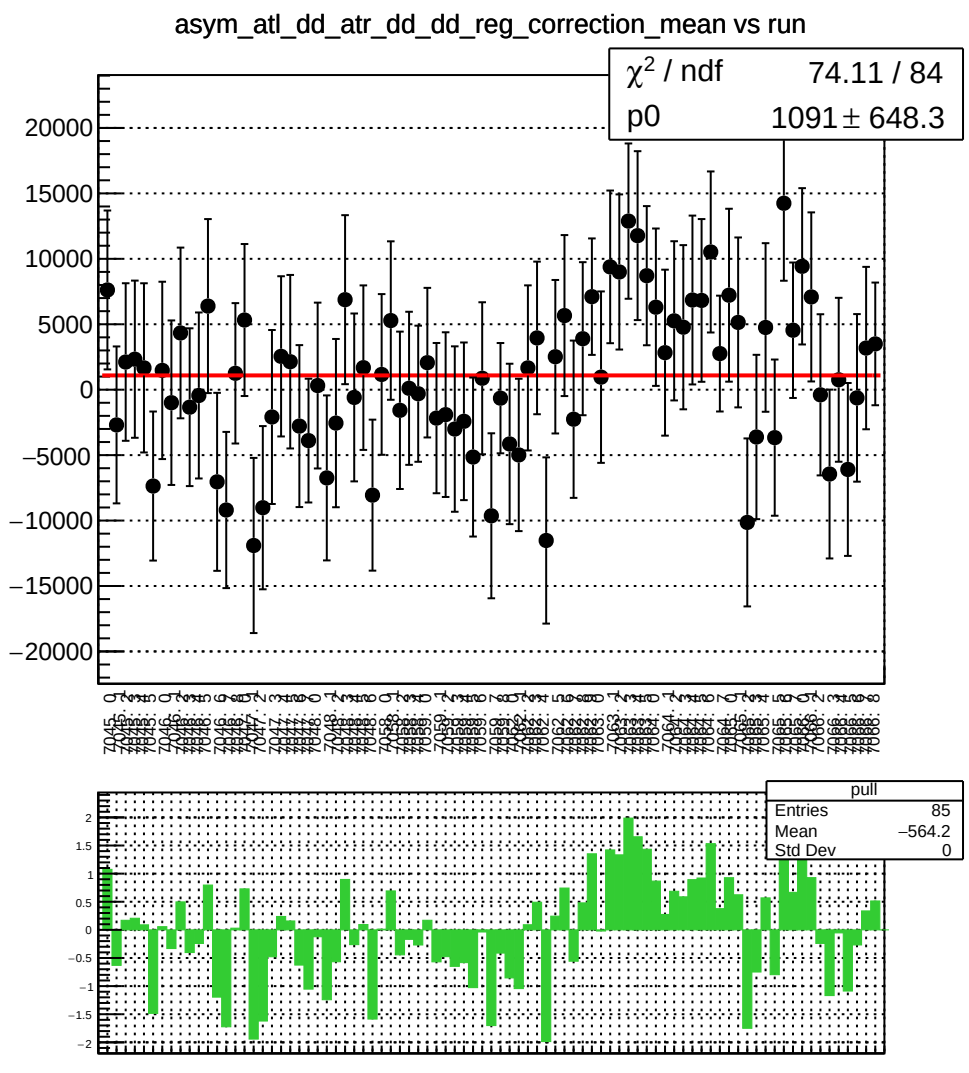

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.61 / 84
p0 2.286e−16 ± 6.74e−15
pull
Entries 85
Mean 43.38
Std Dev 27.49
pull1D
Entries 85
Mean 0.1214
Std Dev 1.025

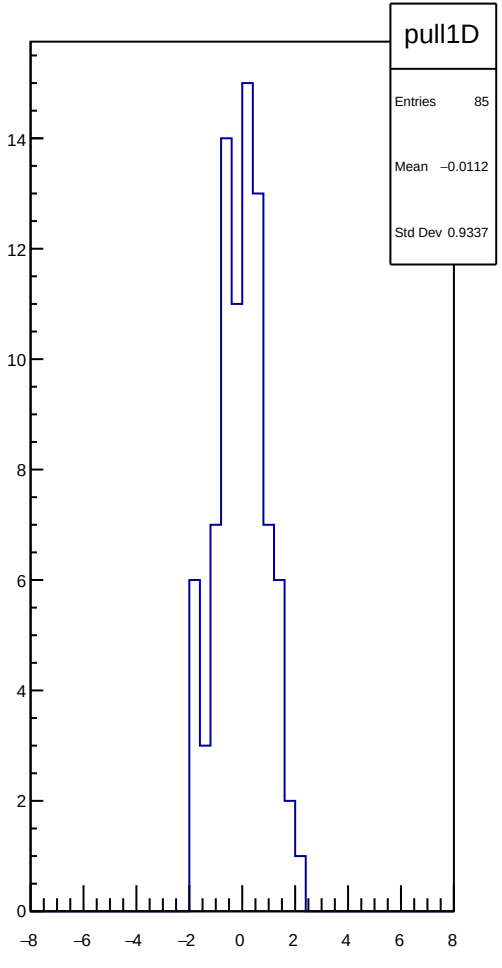

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 5.106e+05 / 84
p0 5.081e−12 ± 4.766e−15

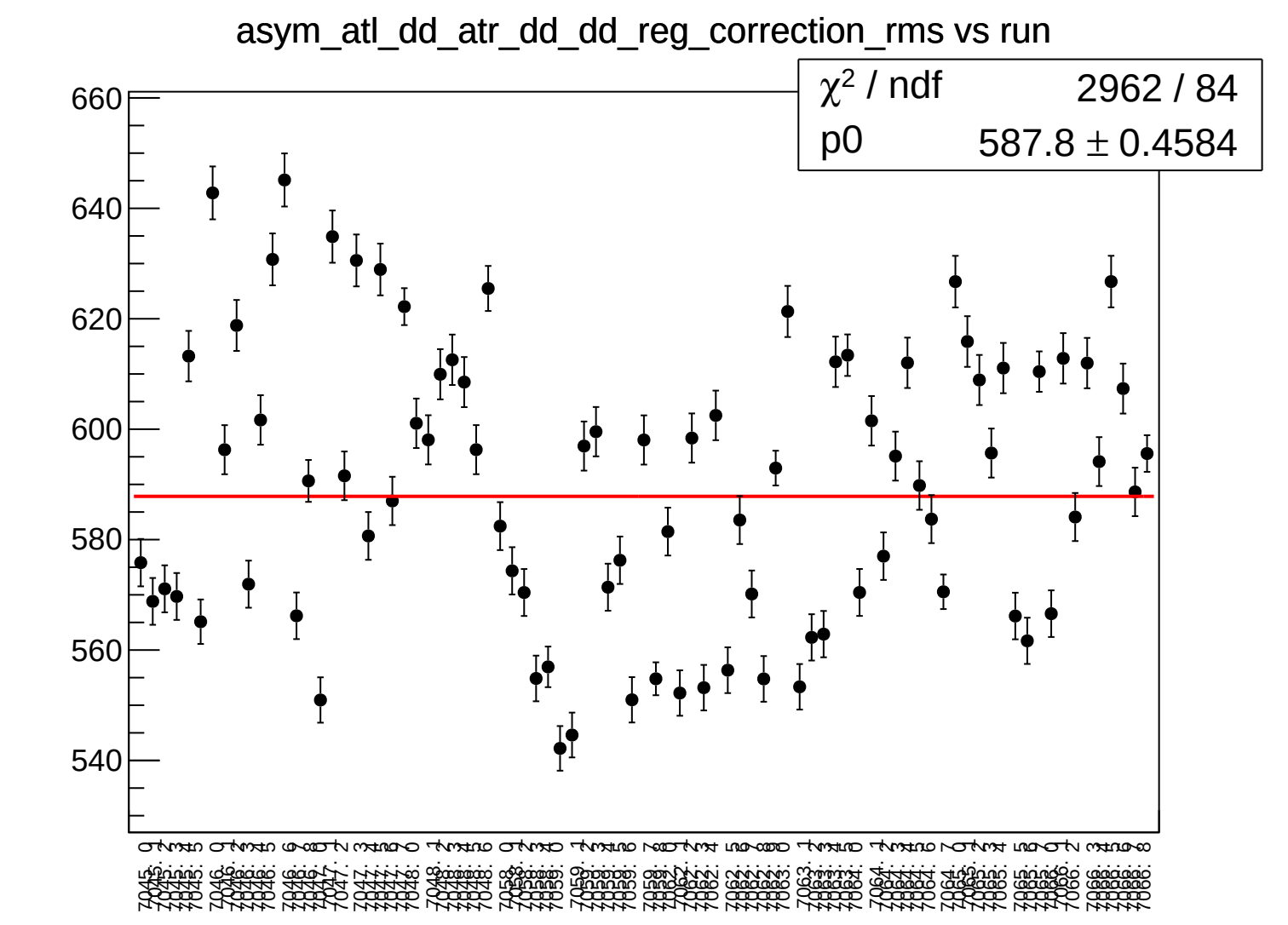

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.32 / 84
p0 −117.7 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 70.42
Std Dev 59.66
2
1
0
−1
−2

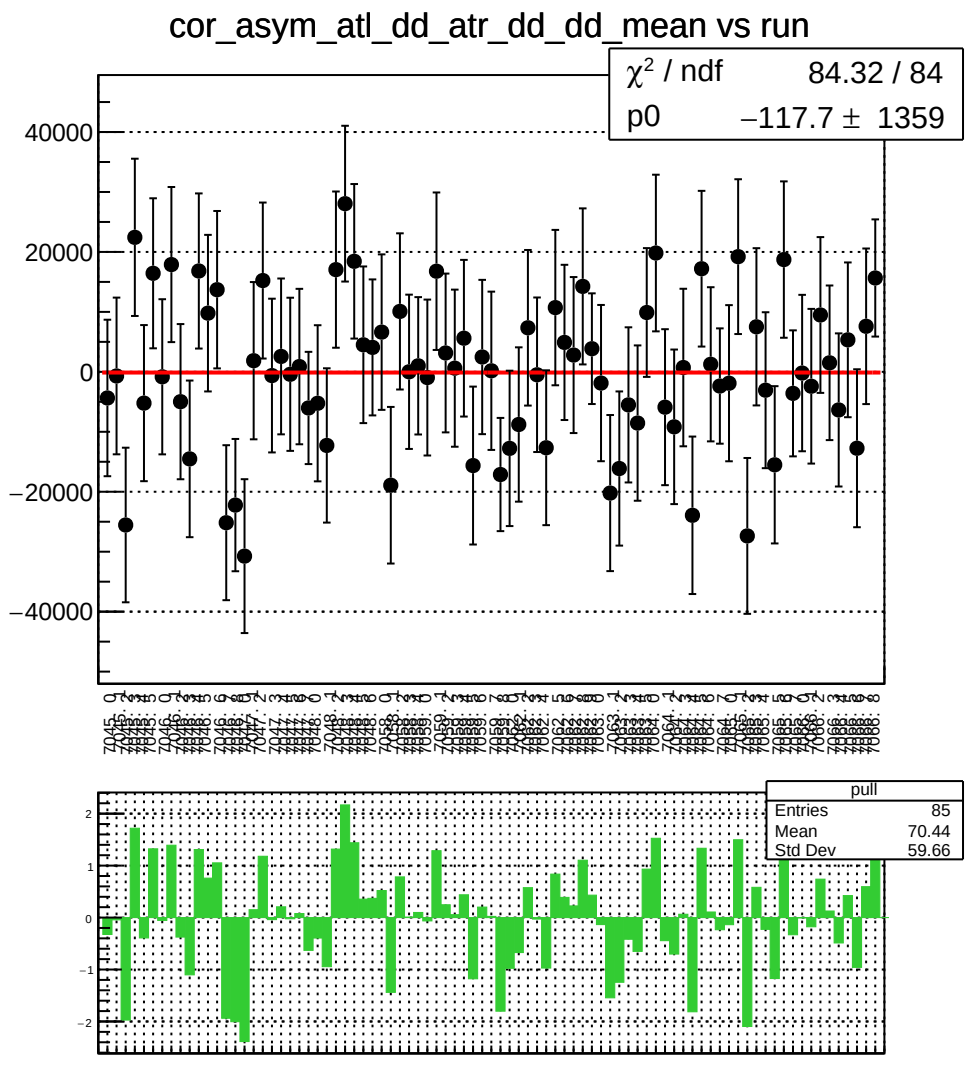

pull1D
Entries 85
Mean 0.005744
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

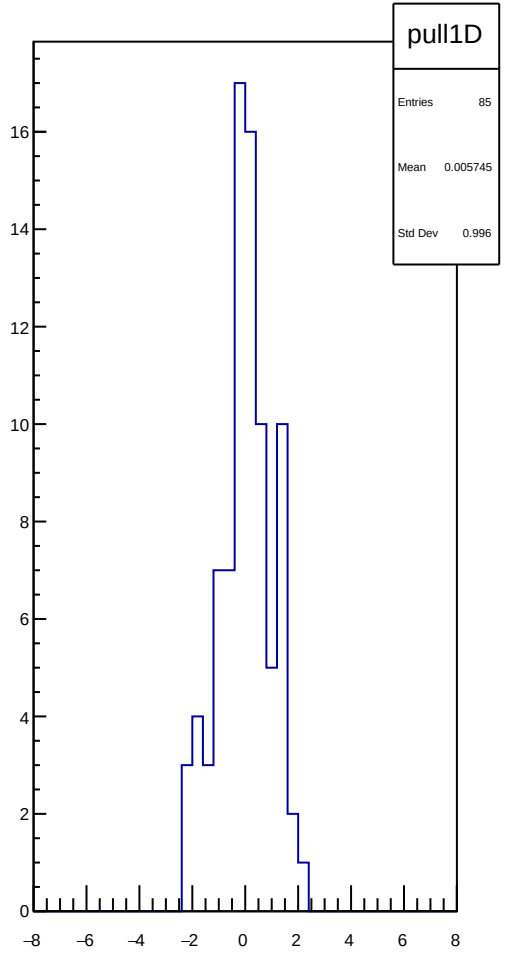

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.08 / 84
p0 1233 ± 0.9606
1270
1260
1250
1240
1230
1220
1210
1200

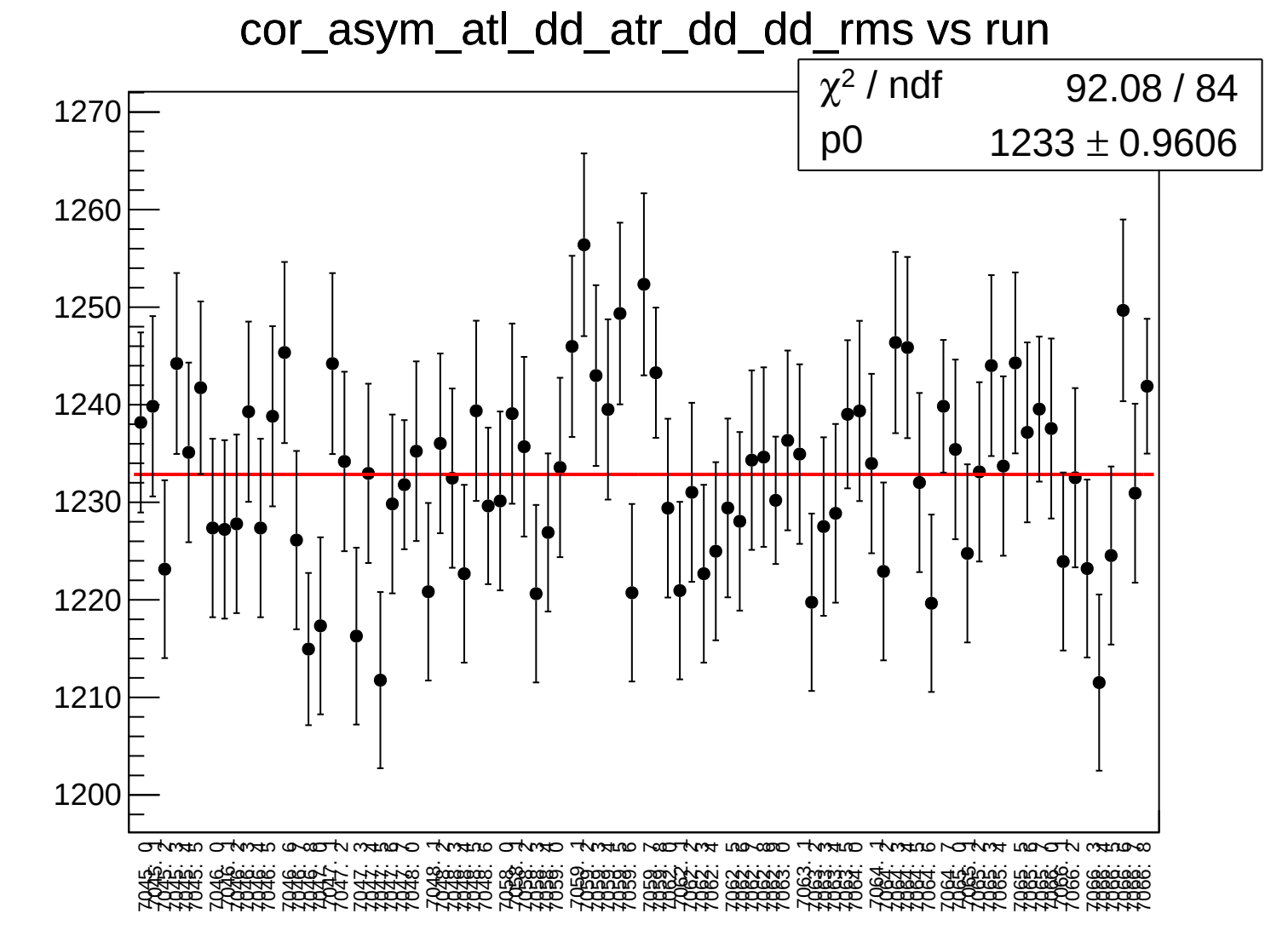

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 74.11 / 84
p0 1091 ± 648.3
pull
Entries 85
Mean −564.2
Std Dev 0

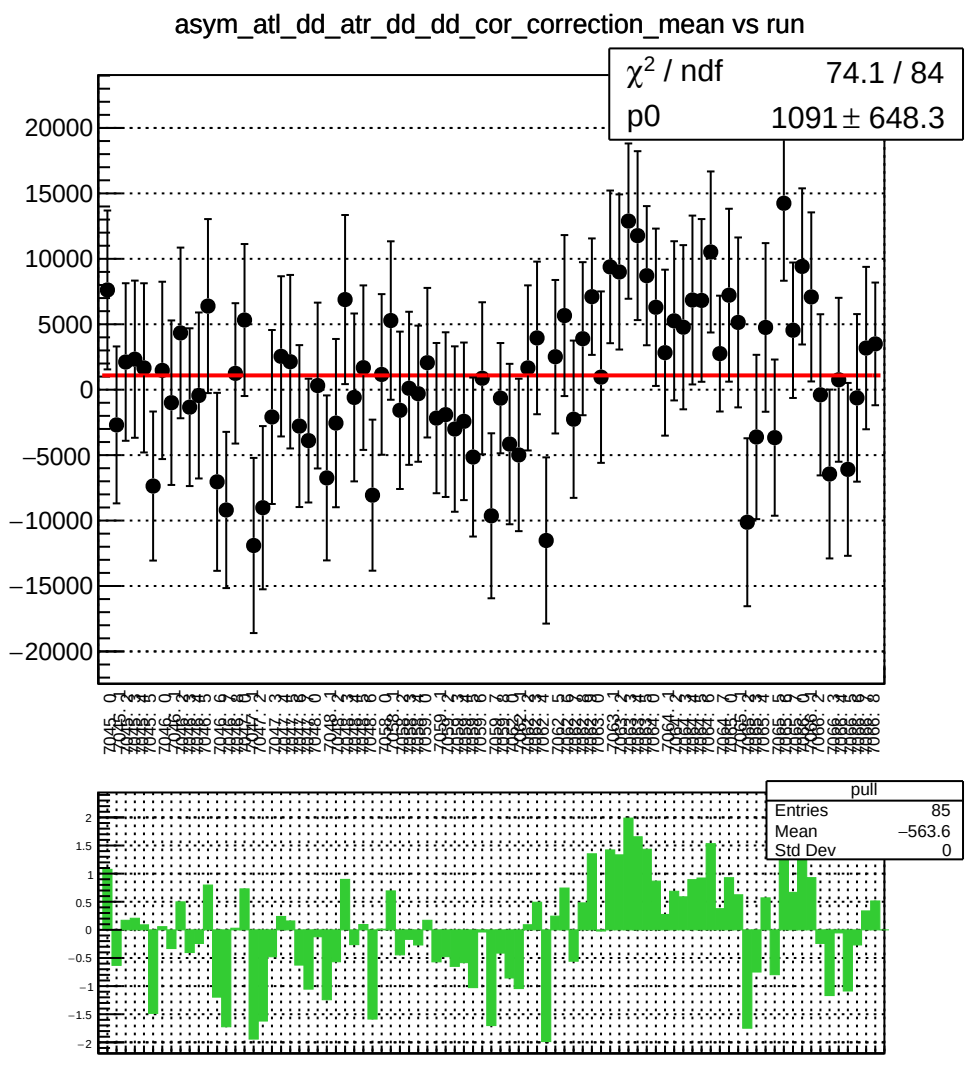

pull1D
Entries 85
Mean −0.0112
Std Dev 0.9337

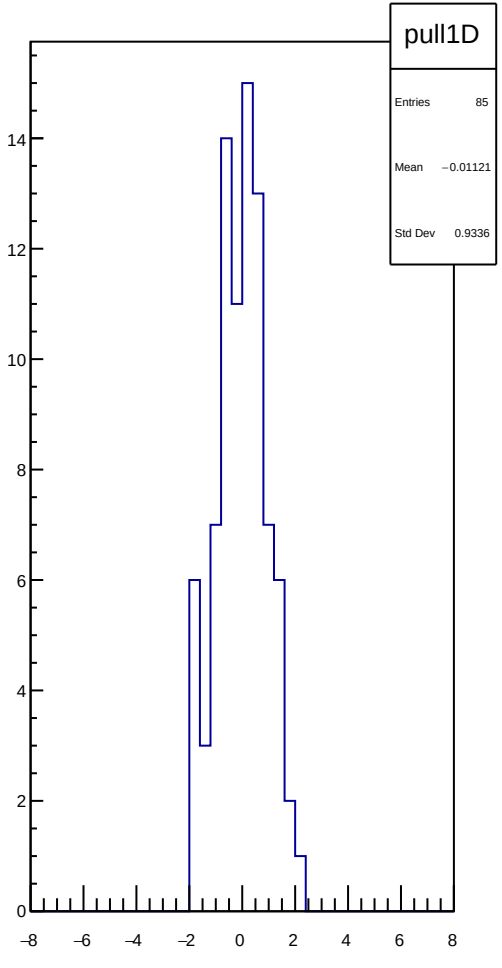

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2962 / 84
p0 587.8 ± 0.4584
660
640
620
600
580
560
540

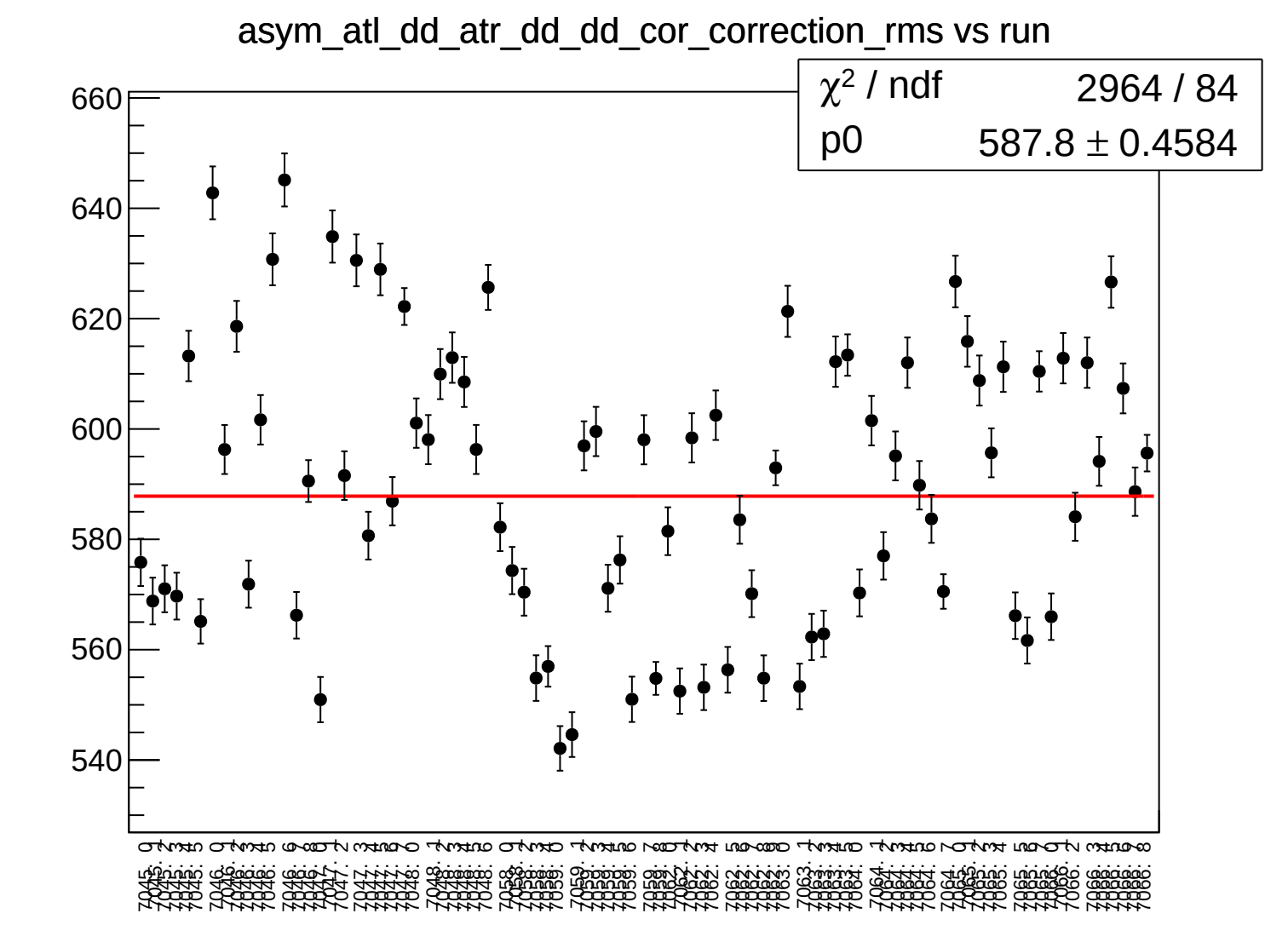

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.32 / 84
p0 −117.7 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 70.44
Std Dev 59.66
2
1
0
−1
−2

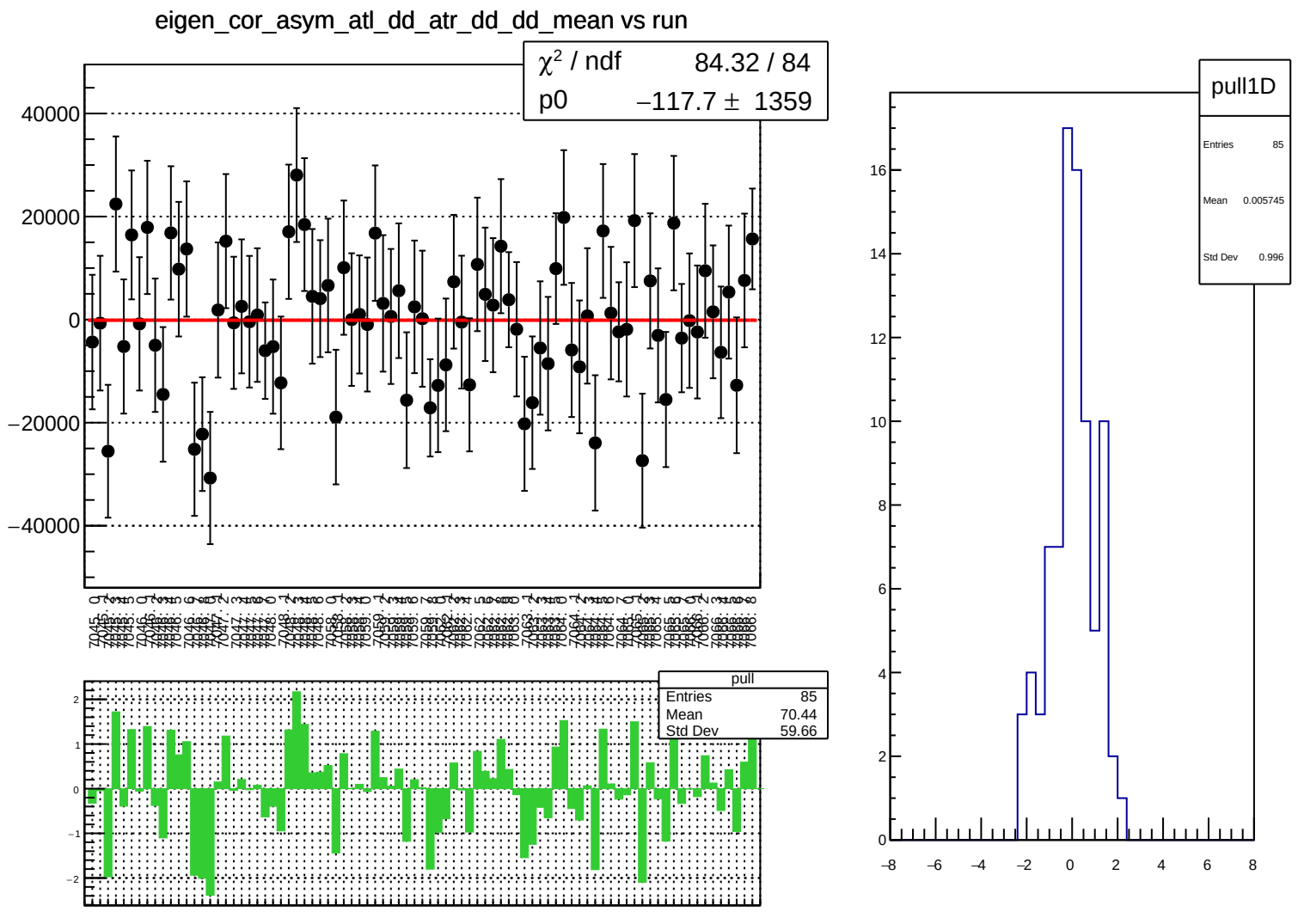

pull1D
Entries 85
Mean 0.005745
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

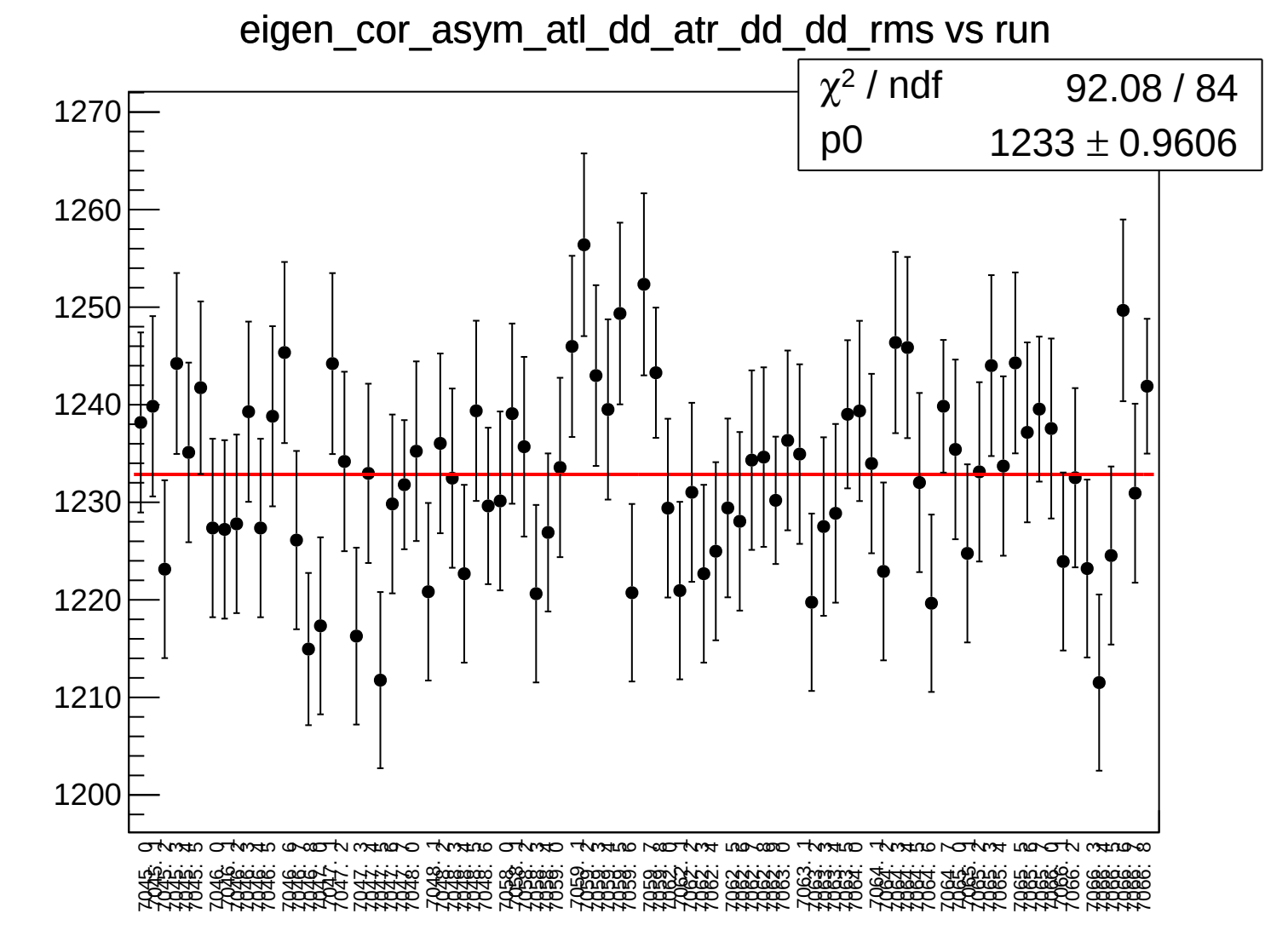

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.08 / 84
p0 1233 ± 0.9606
1270
1260
1250
1240
1230
1220
1210
1200

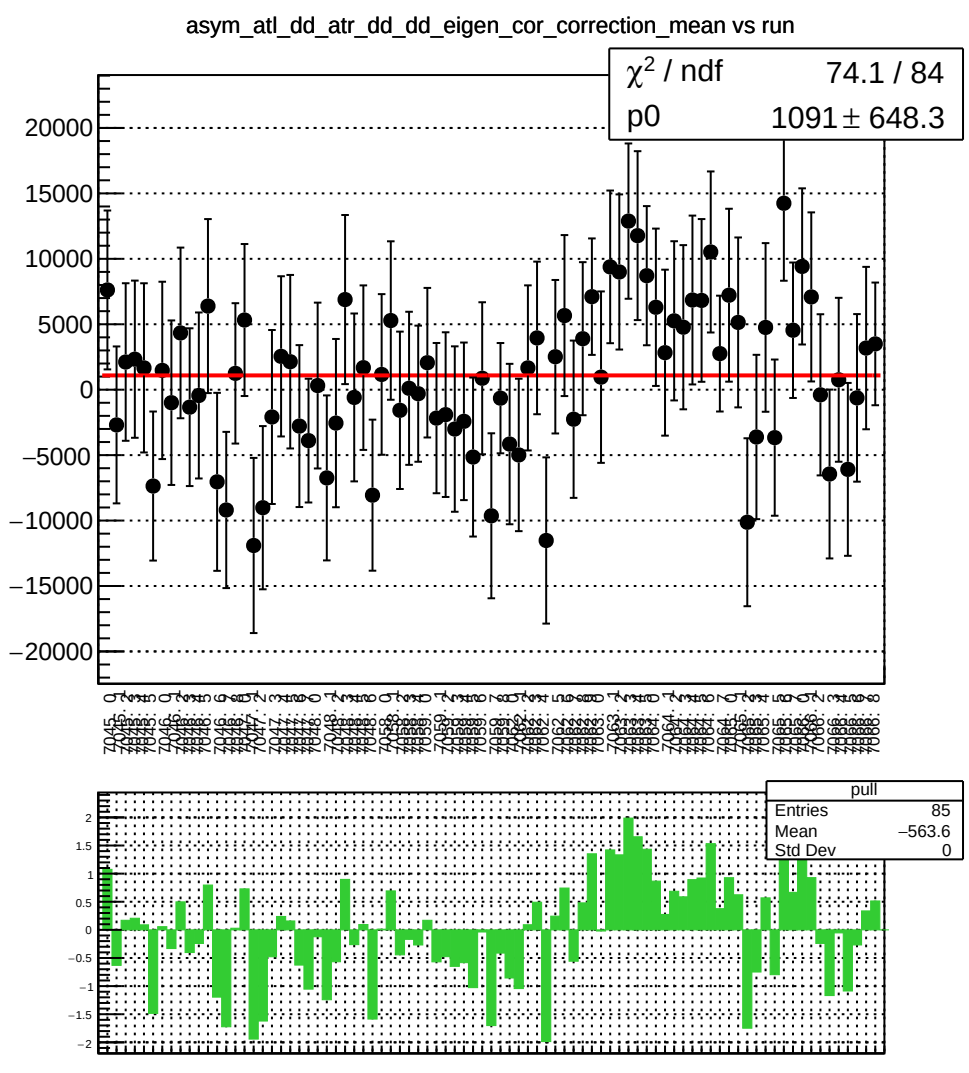

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 74.1 / 84
p0 1091 ± 648.3
pull
Entries 85
Mean −563.6
Std Dev 0

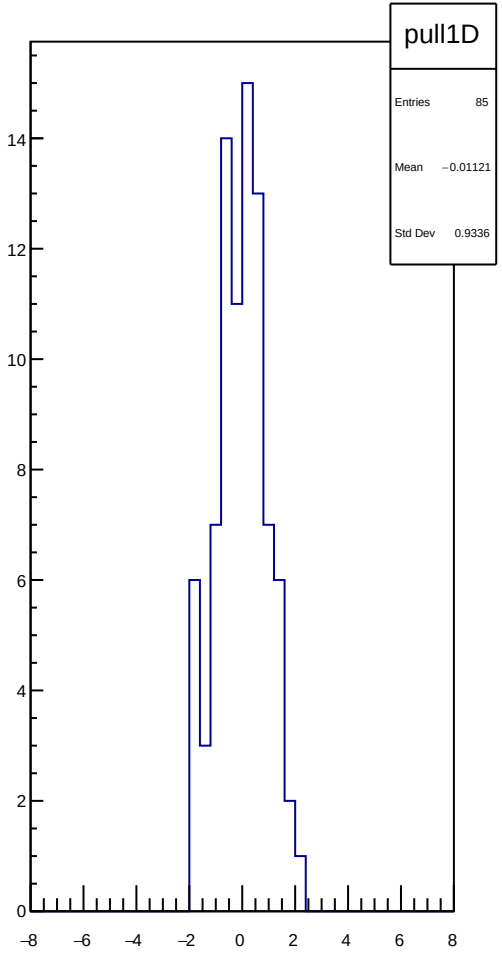

pull1D
Entries 85
Mean −0.01121
Std Dev 0.9336

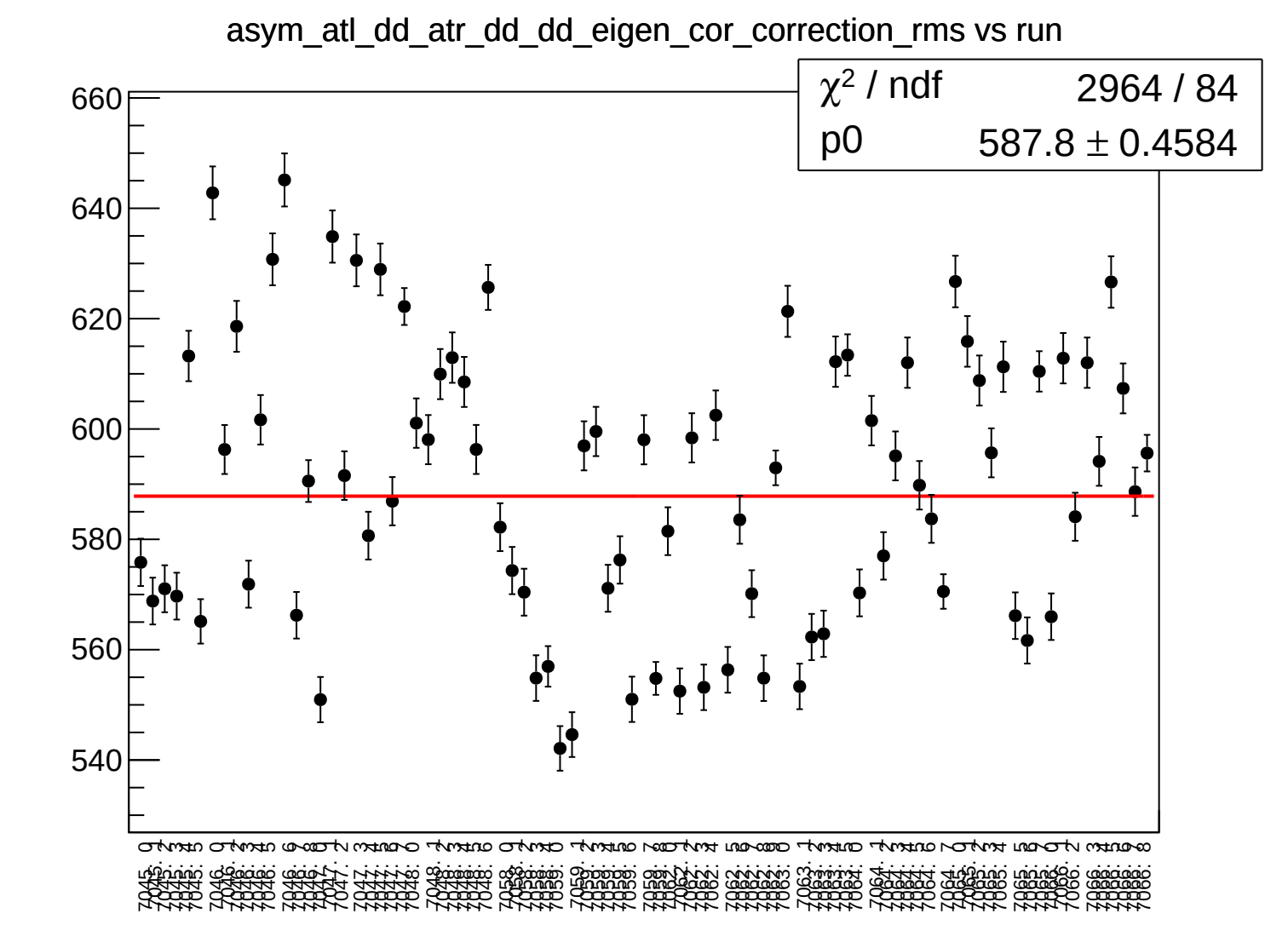

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2964 / 84
p0 587.8 ± 0.4584
660
640
620
600
580
560
540

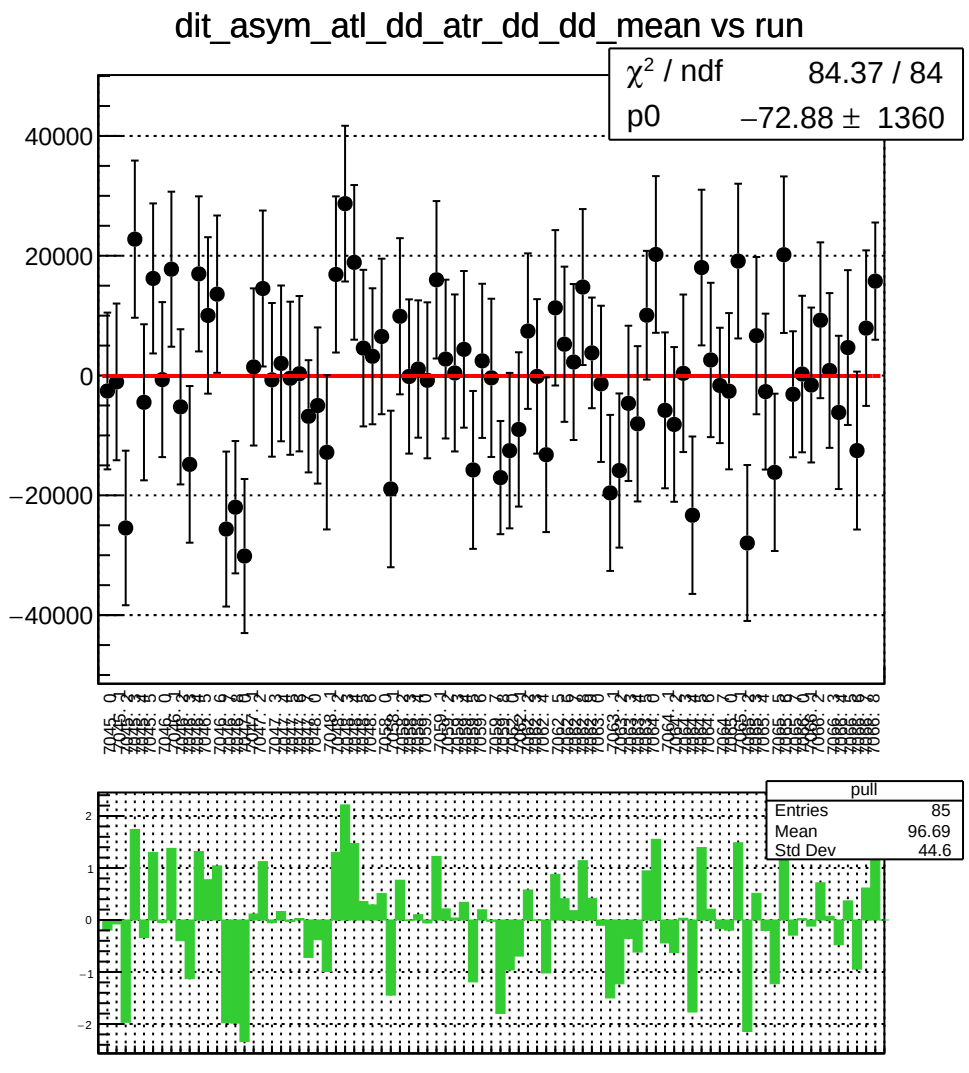

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.32 / 84
p0 −117.7 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 70.44
Std Dev 59.66
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005745
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

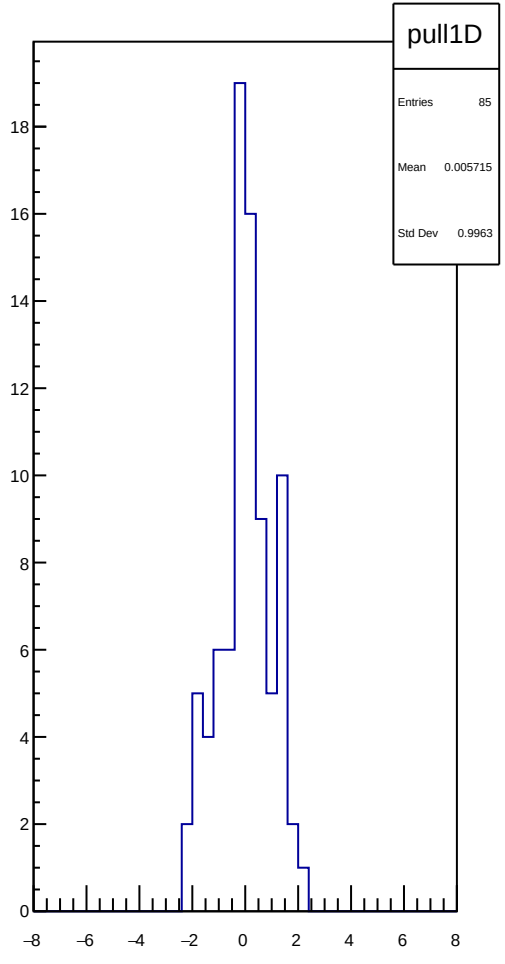

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.08 / 84
p0 1233 ± 0.9606
1270
1260
1250
1240
1230
1220
1210
1200

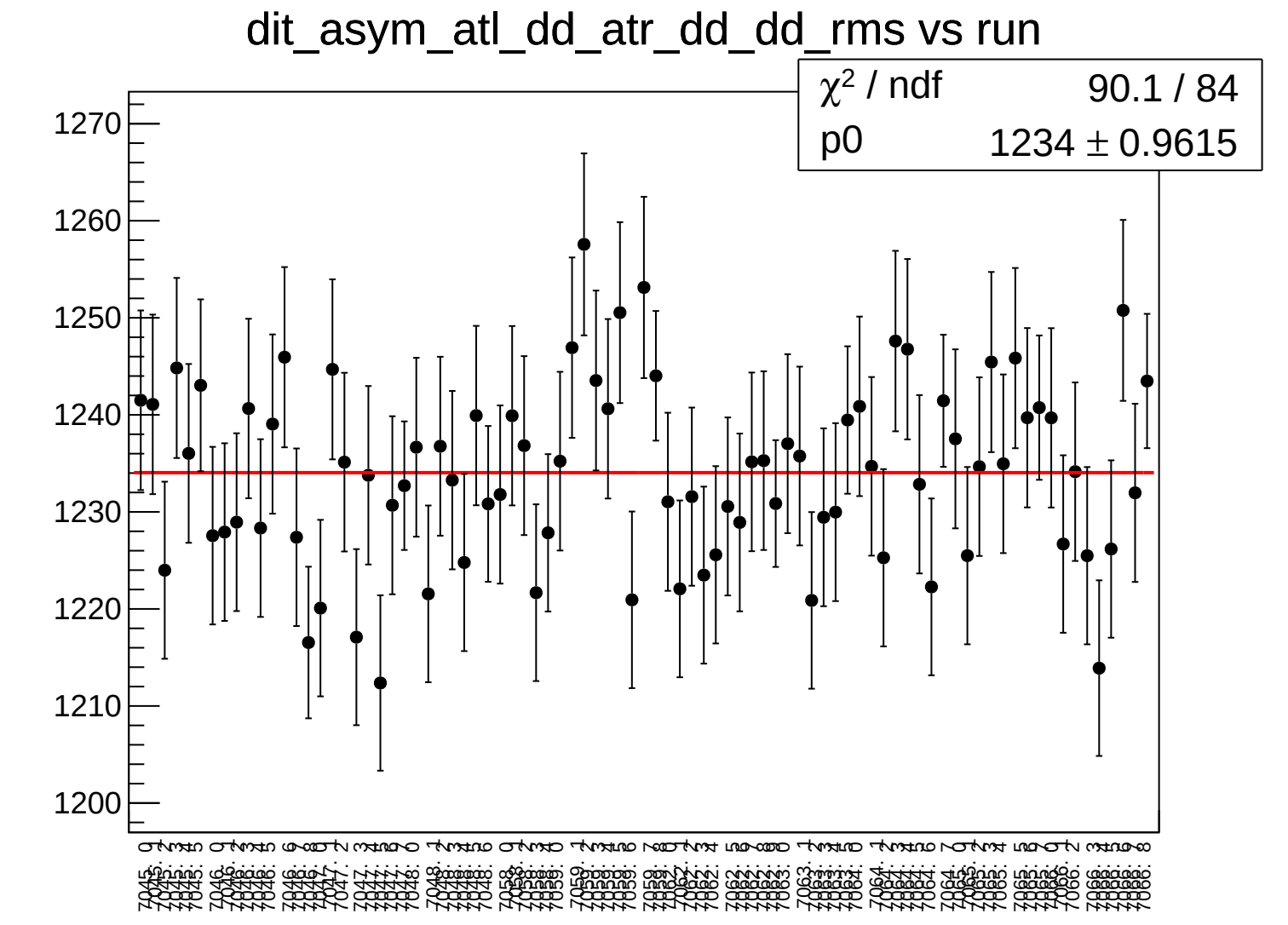

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.1 / 84
p0 1091 ± 648.3
pull
Entries 85
Mean −563.6
Std Dev 0

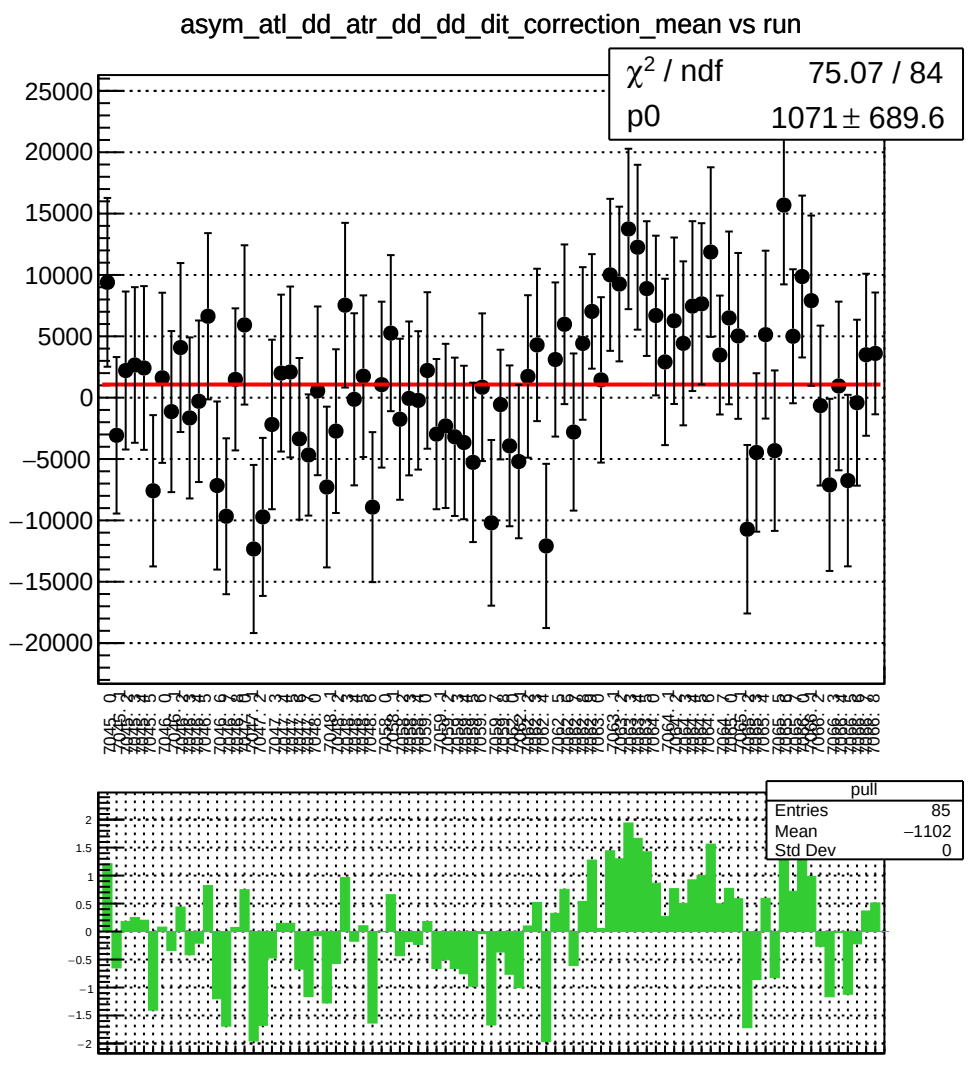

pull1D
Entries 85
Mean −0.01121
Std Dev 0.9336

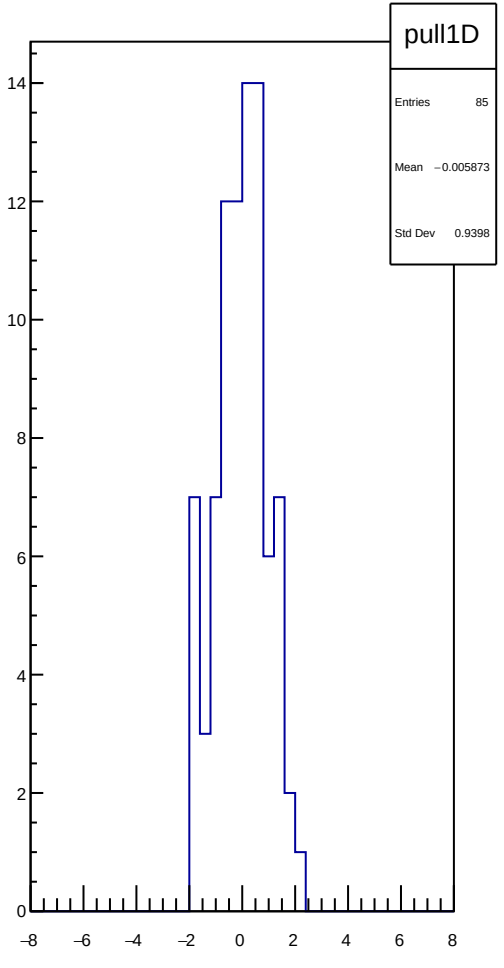

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2964 / 84
p0 587.8 ± 0.4584
660
640
620
600
580
560
540

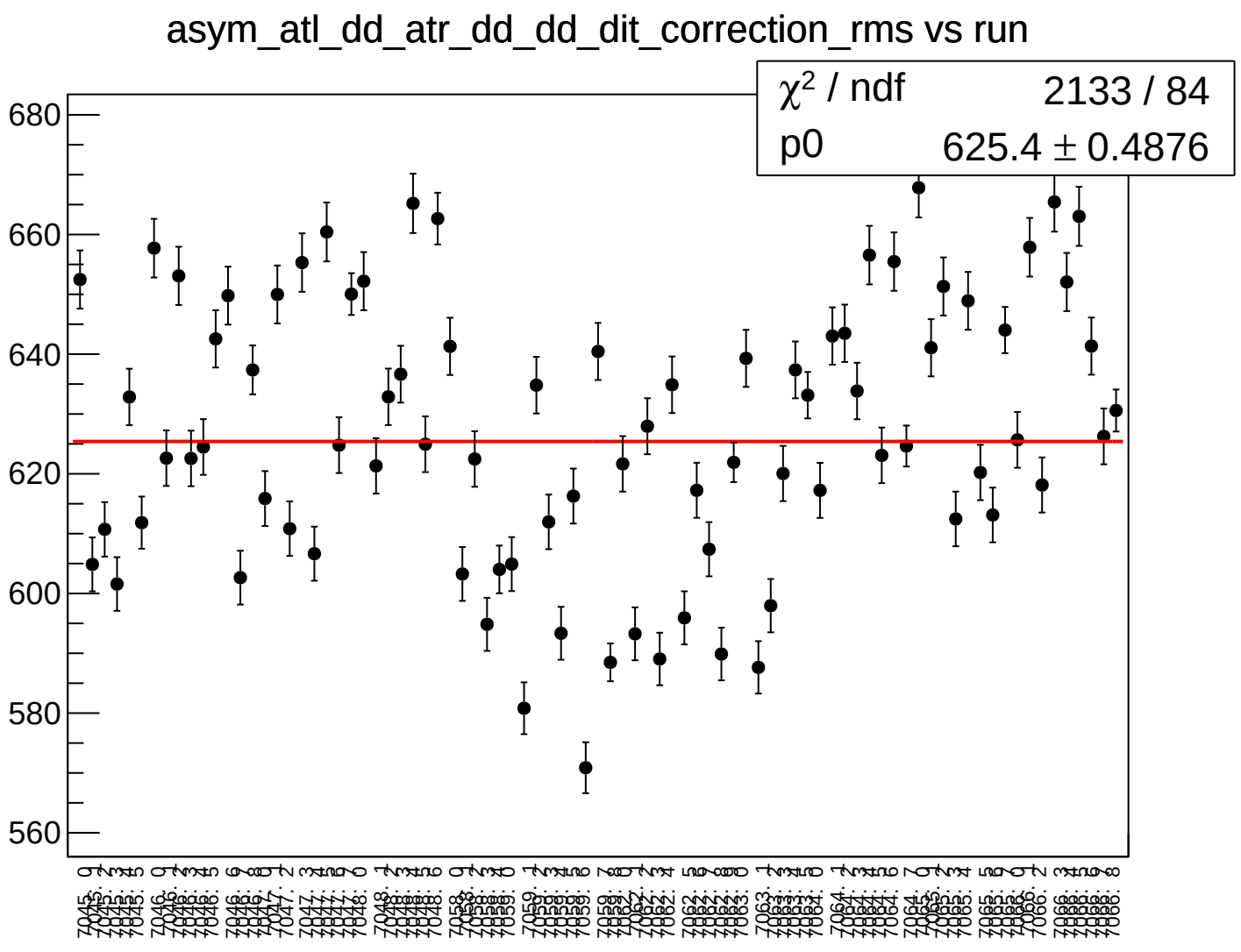

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.37 / 84
p0 −72.88 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 96.69
Std Dev 44.6
2
1
0
−1
−2

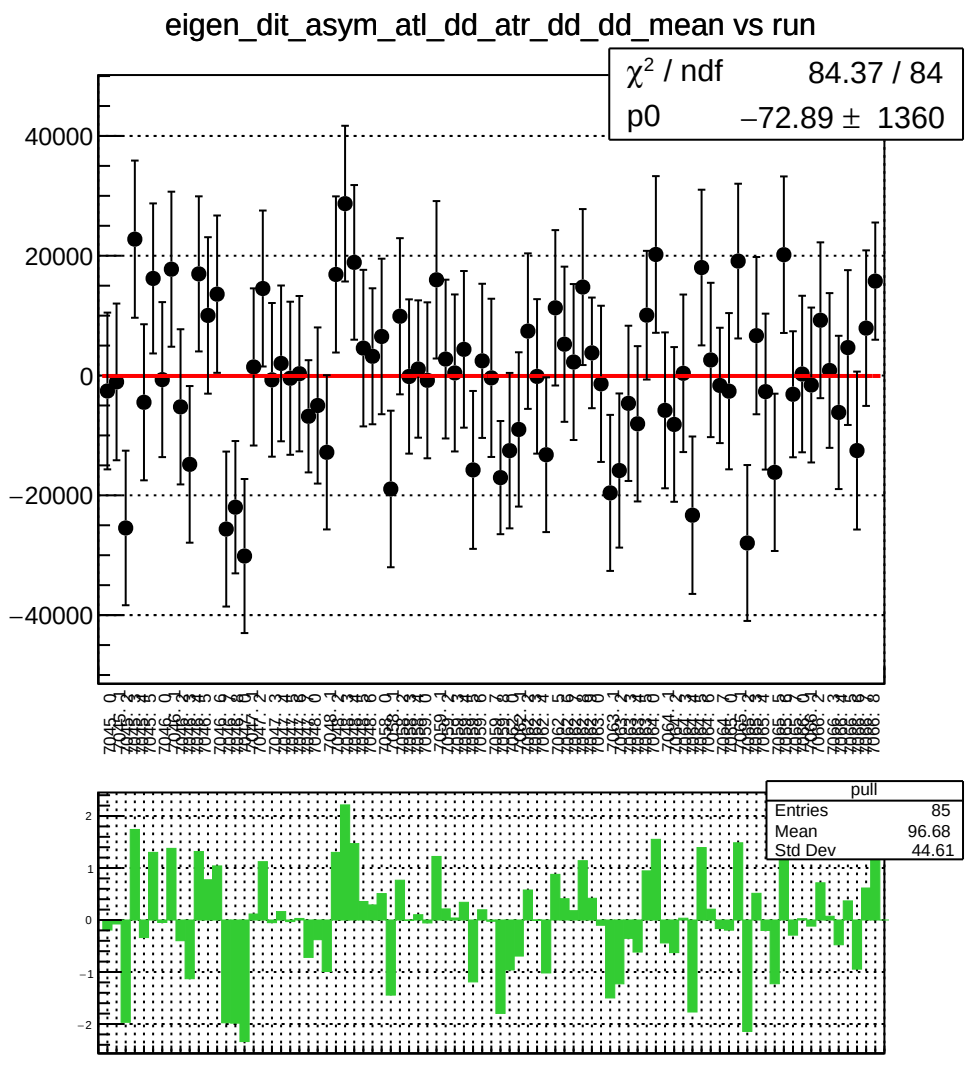

pull1D
Entries 85
Mean 0.005715
Std Dev 0.9963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

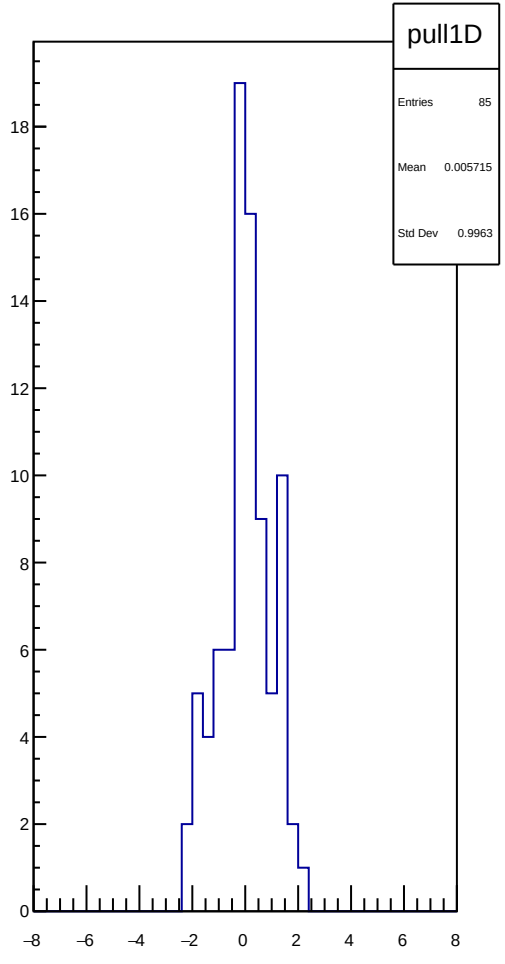

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 90.1 / 84
p0 1234 ± 0.9615
1270
1260
1250
1240
1230
1220
1210
1200

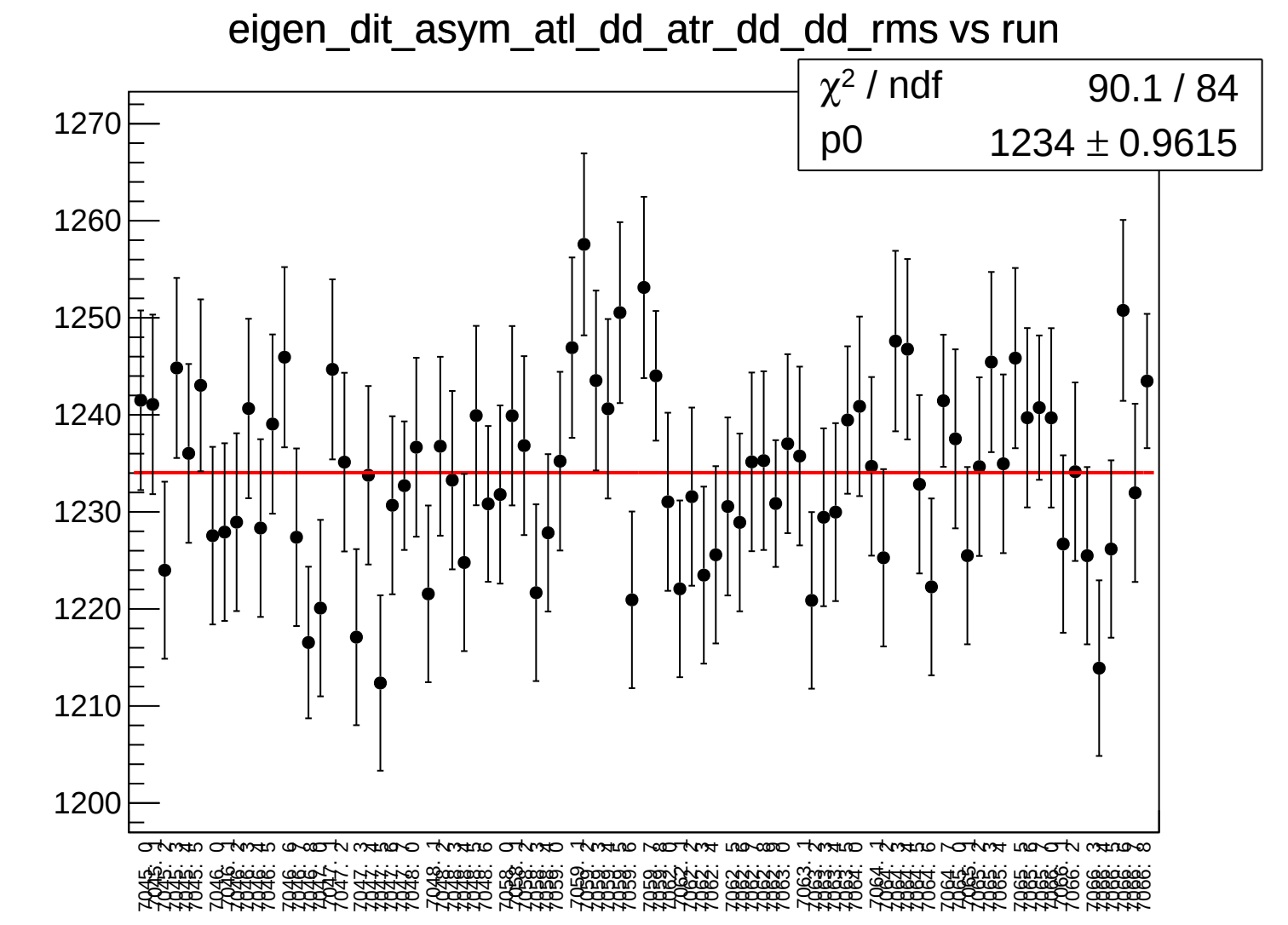

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 75.07 / 84
p0 1071 ± 689.6
pull
Entries 85
Mean −1102
Std Dev 0

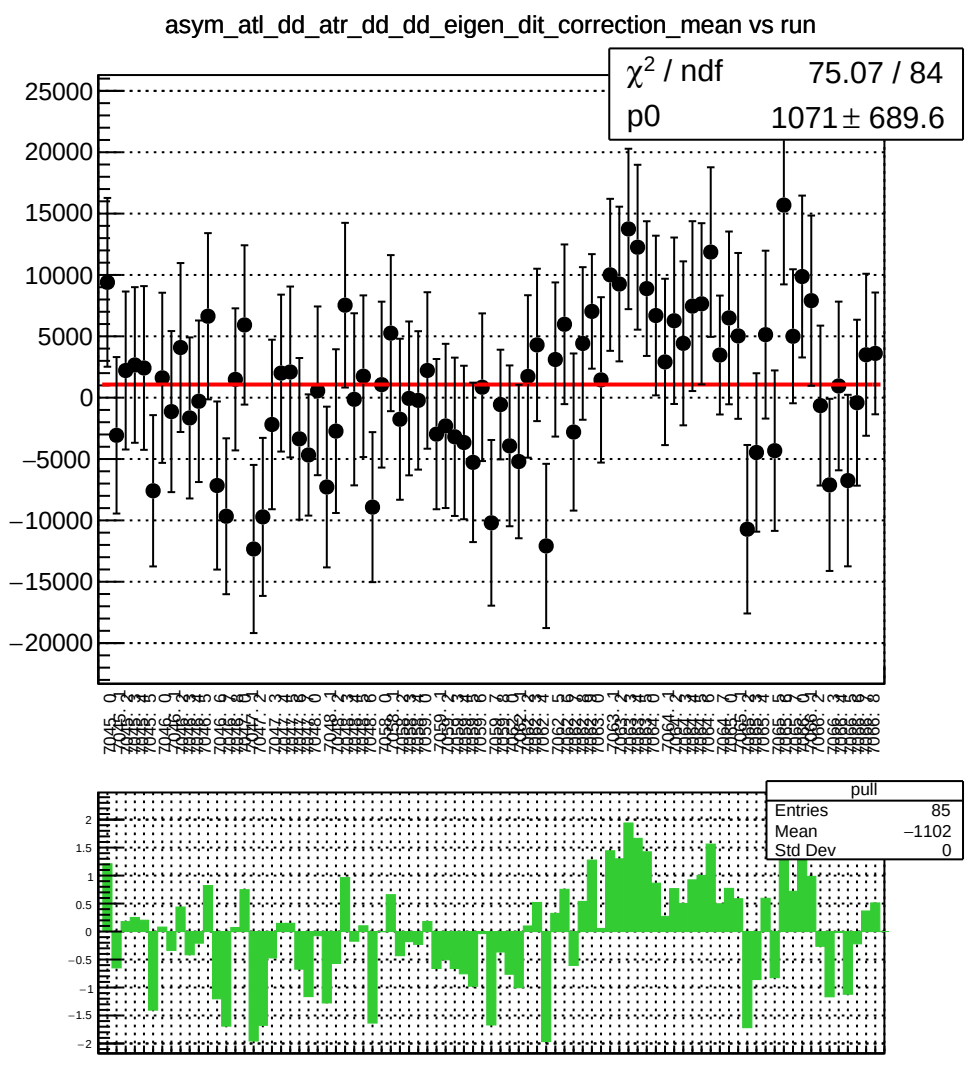

pull1D
Entries 85
Mean −0.005873
Std Dev 0.9398

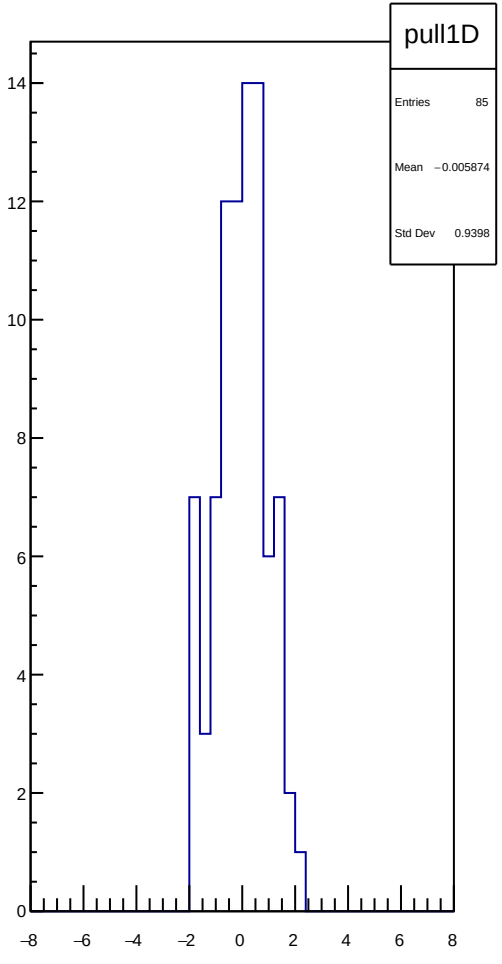

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2133 / 84
p0 625.4 ± 0.4876
680
660
640
620
600
580
560

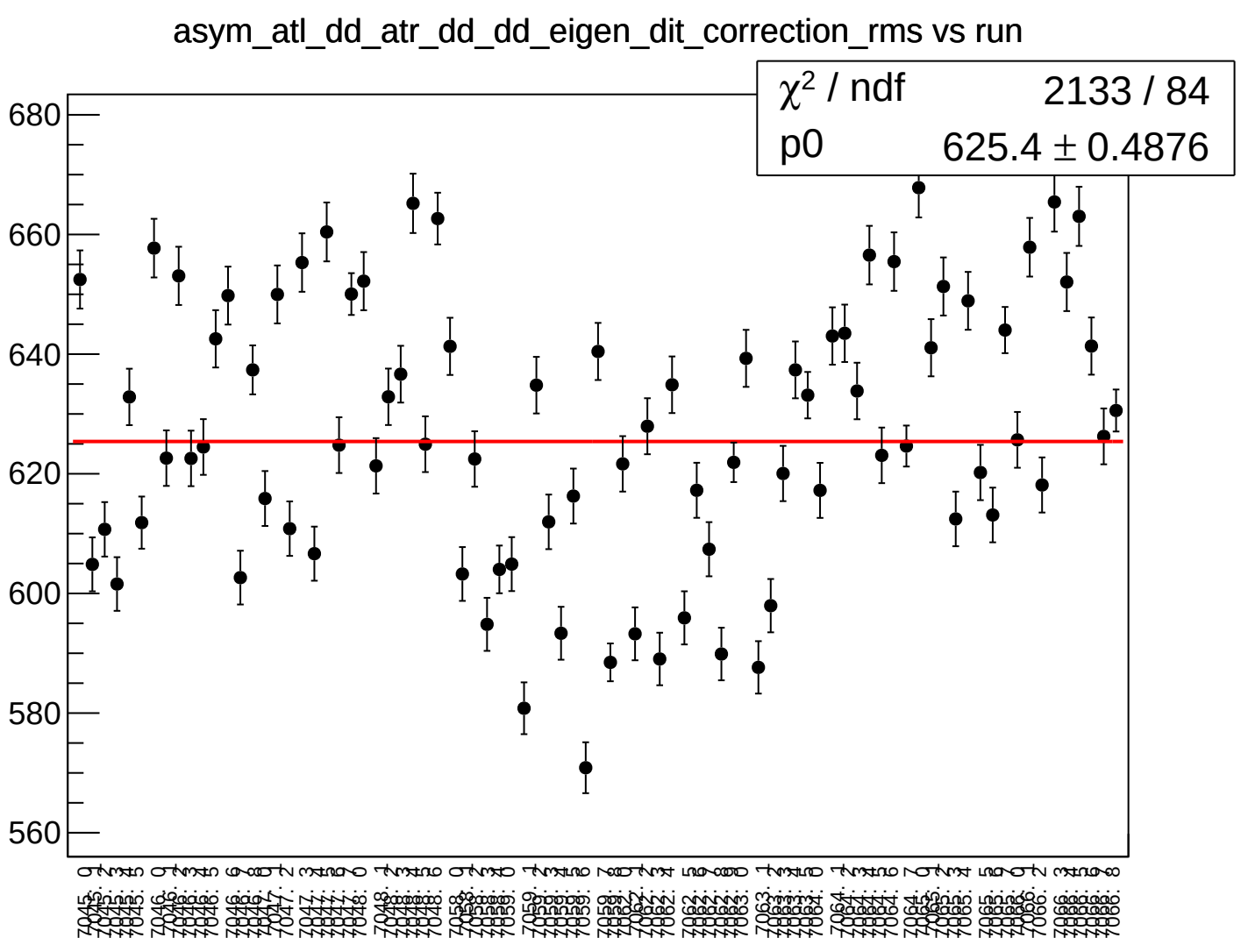

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.37 / 84
p0 −72.89 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 96.68
Std Dev 44.61
2
1
0
−1
−2

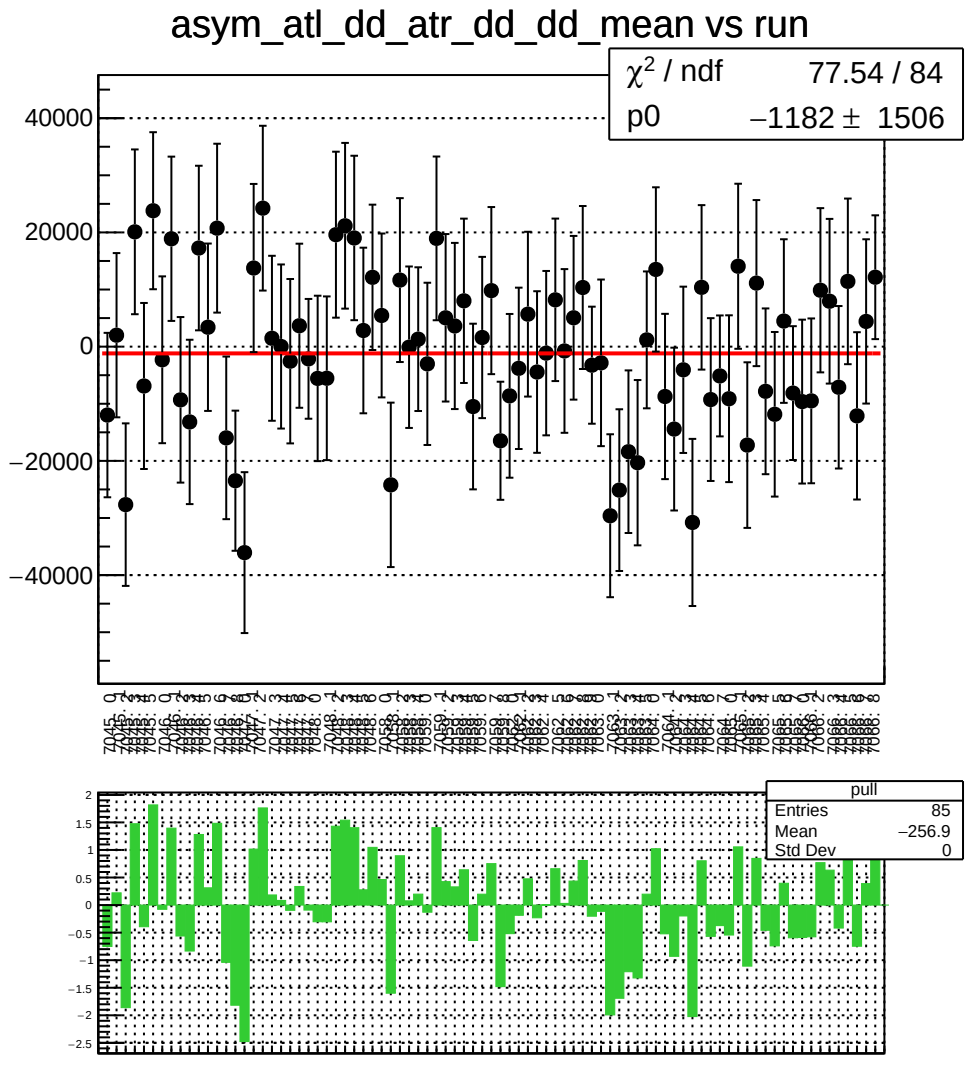

pull1D
Entries 85
Mean 0.005715
Std Dev 0.9963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

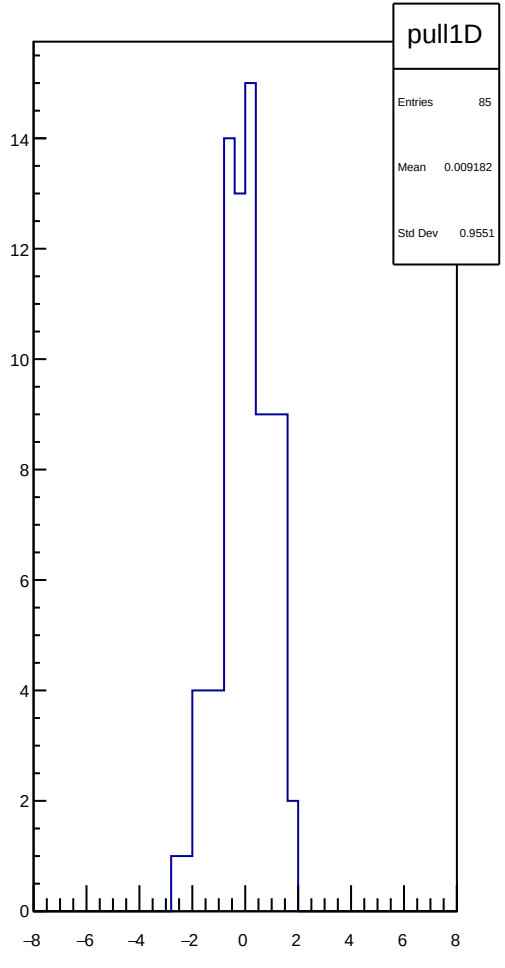

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 90.1 / 84
p0 1234 ± 0.9615
1270
1260
1250
1240
1230
1220
1210
1200

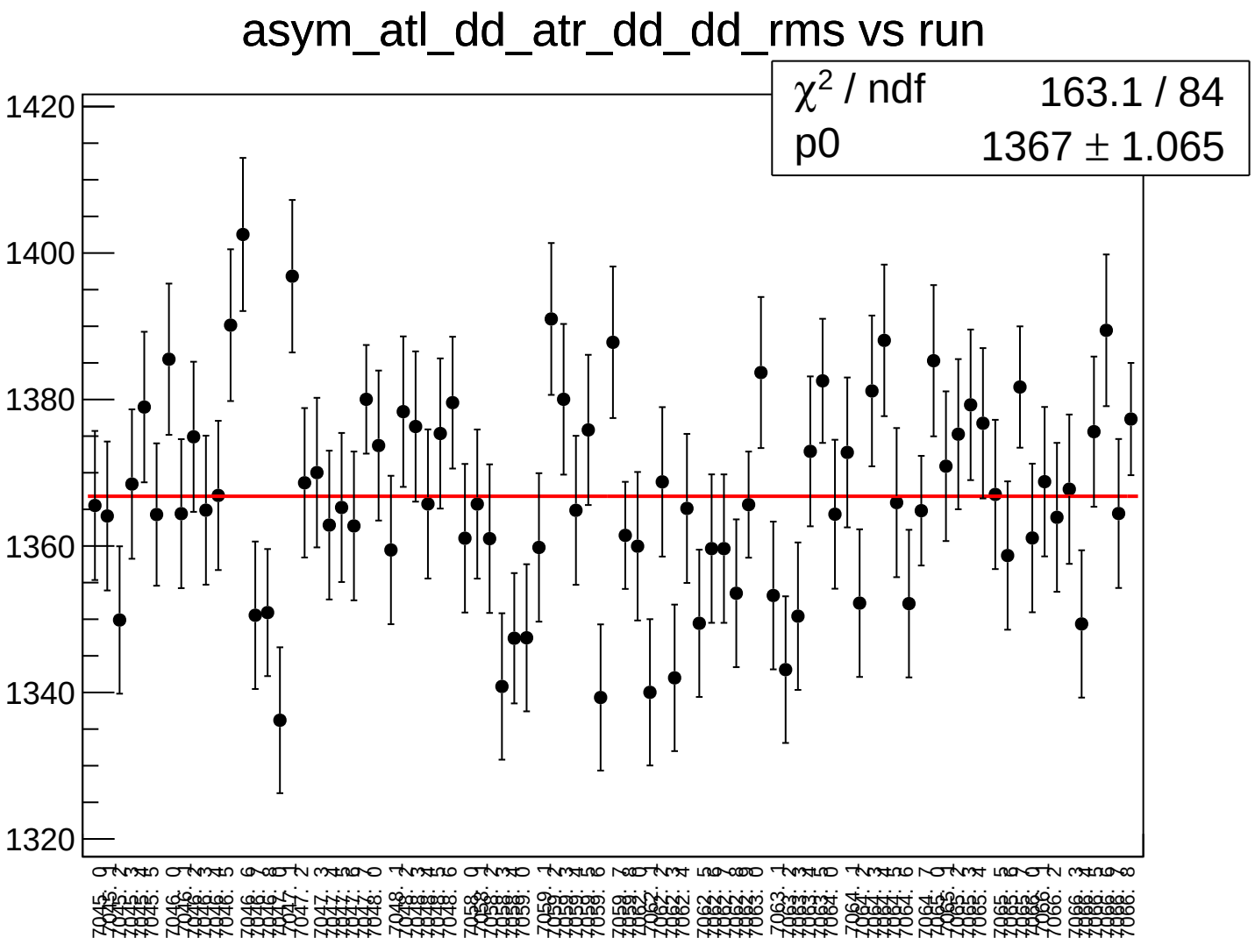

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.07 / 84
p0 1071 ± 689.6
pull
Entries 85
Mean −1102
Std Dev 0

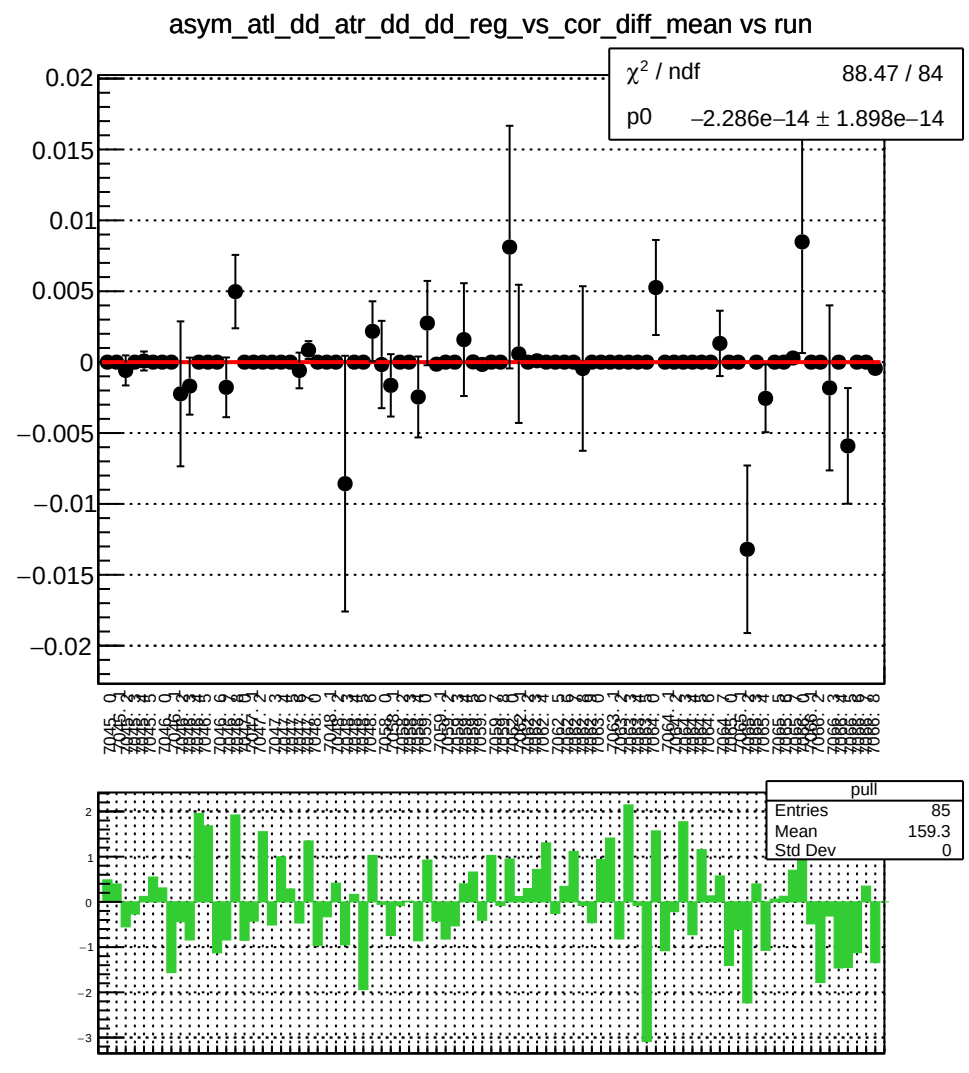

pull1D
Entries 85
Mean −0.005874
Std Dev 0.9398

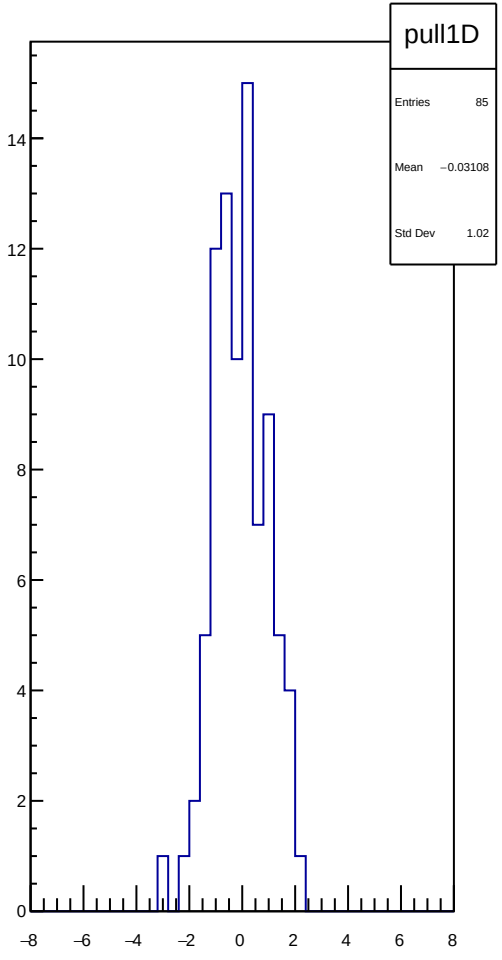

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2133 / 84
p0 625.4 ± 0.4876
680
660
640
620
600
580
560

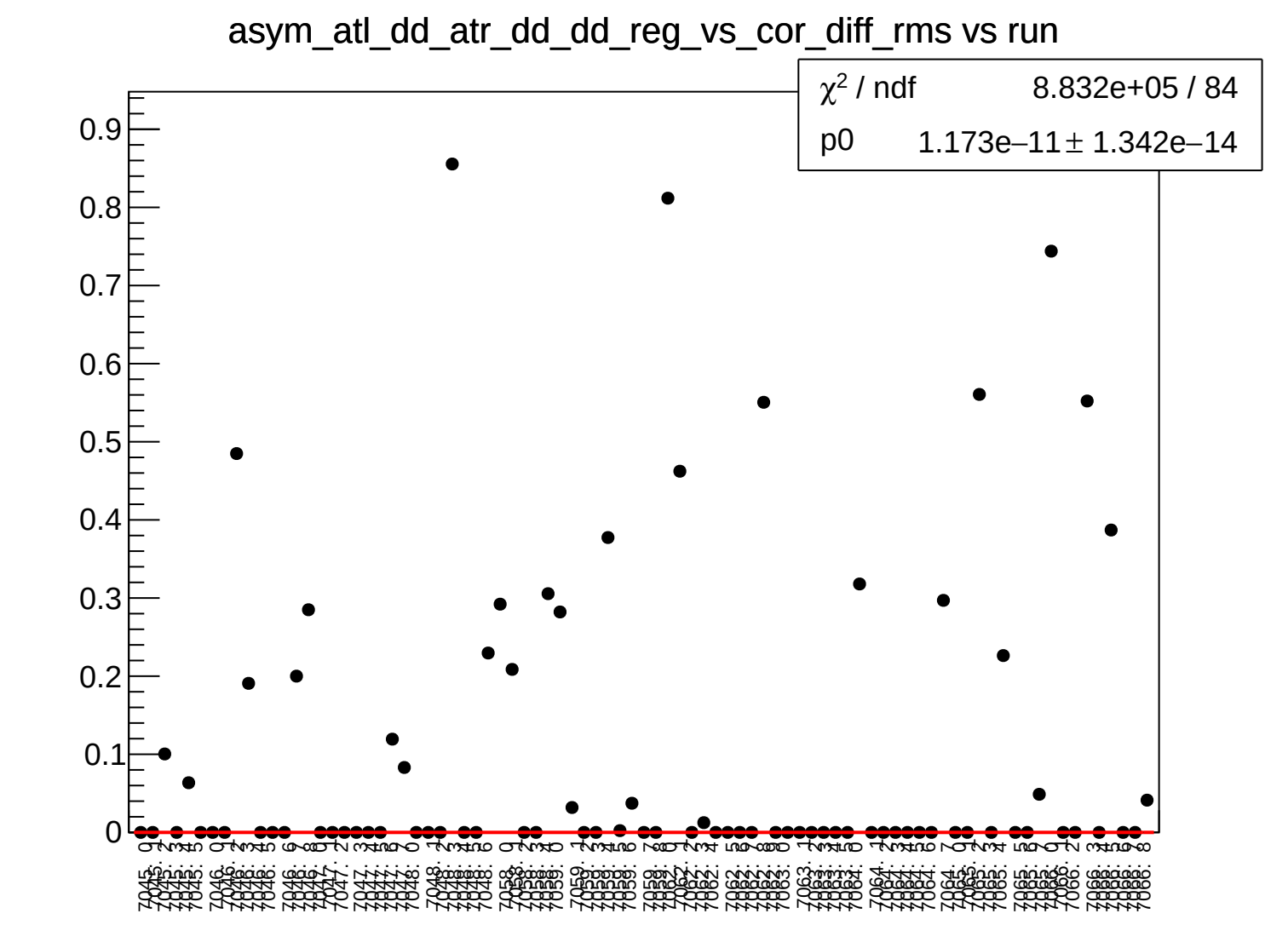

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.54 / 84
p0 −1182 ± 1506
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −256.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

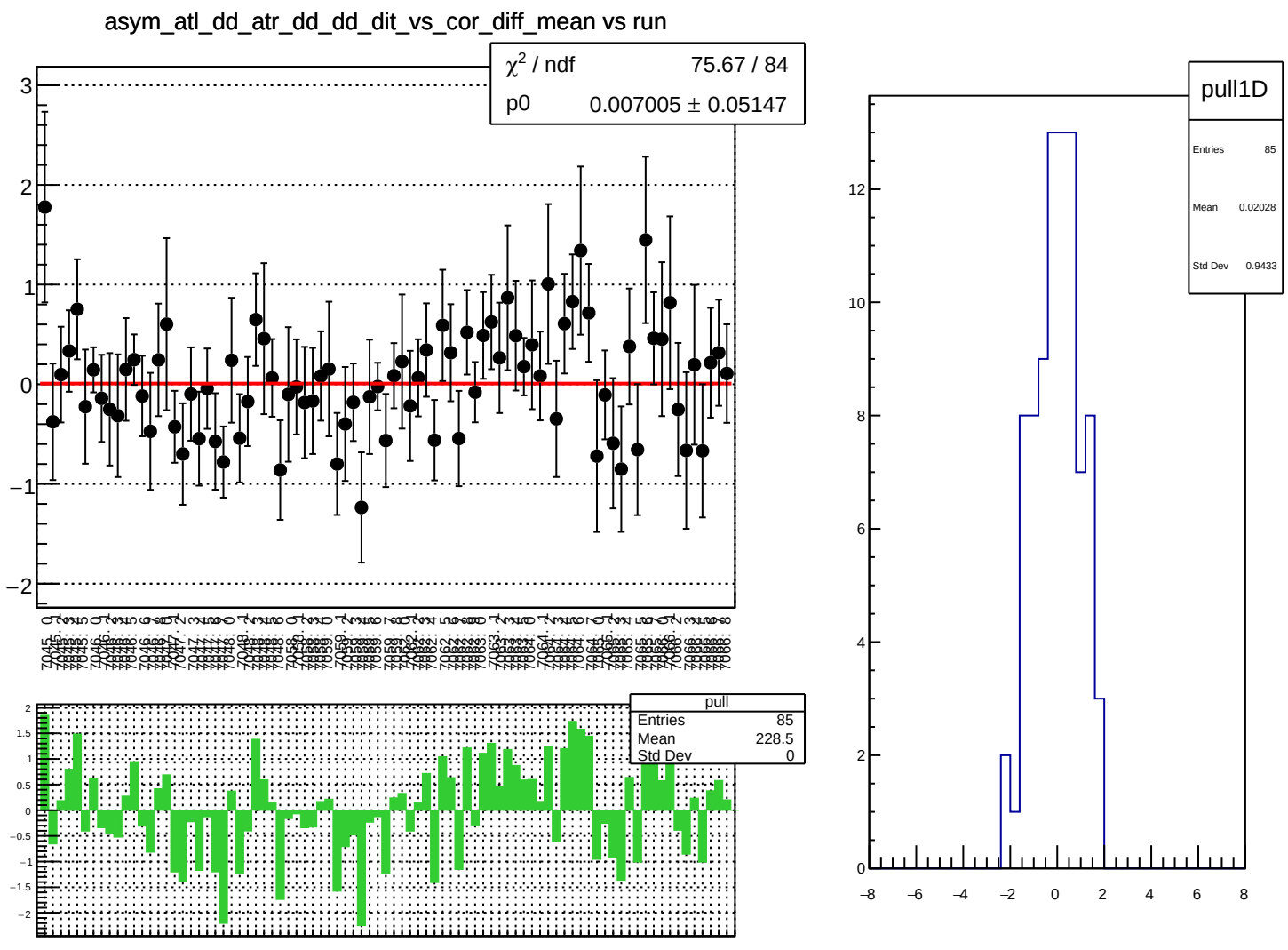

pull1D
Entries 85
Mean 0.009182
Std Dev 0.9551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

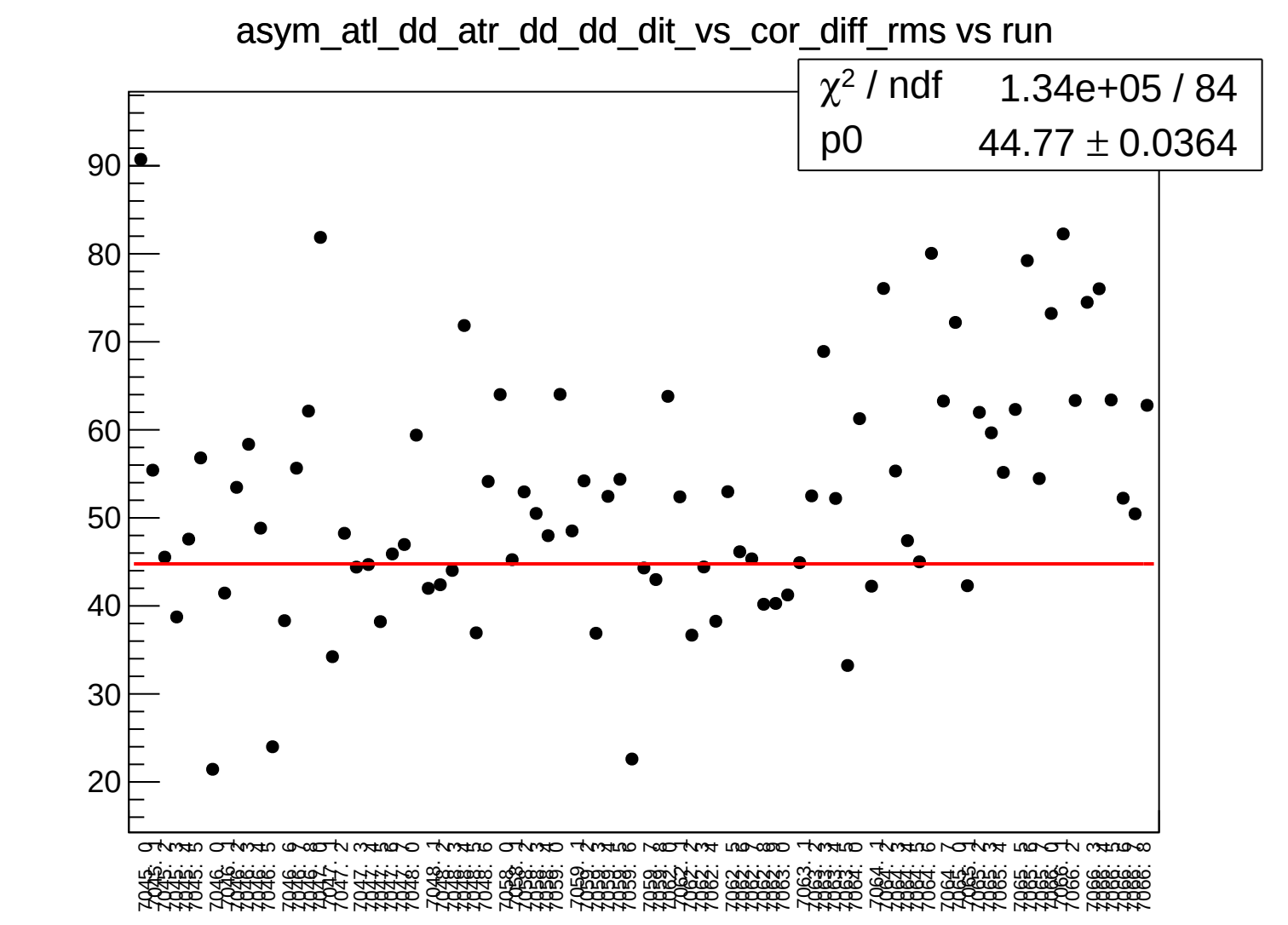

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 163.1 / 84
p0 1367 ± 1.065
1420
1400
1380
1360
1340
1320

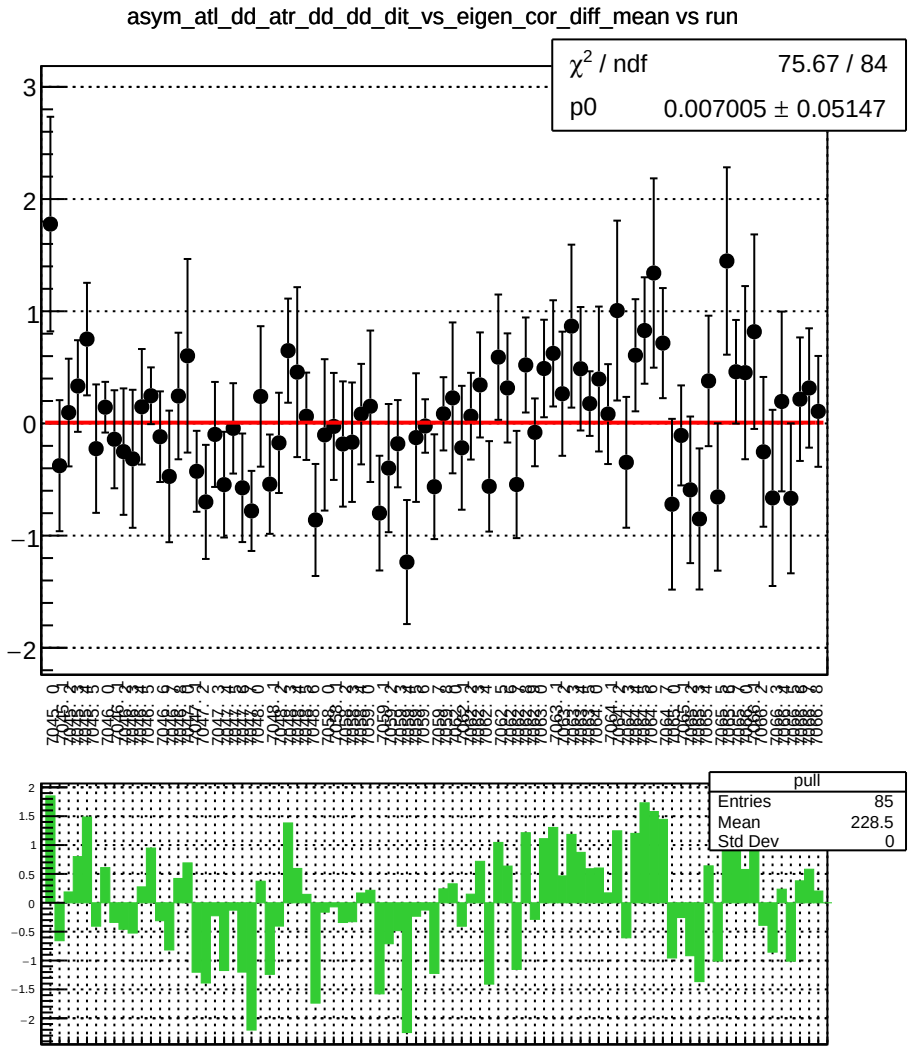

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.47 / 84
p0 −2.286e−14 ± 1.898e−14
pull
Entries 85
Mean 159.3
Std Dev 0

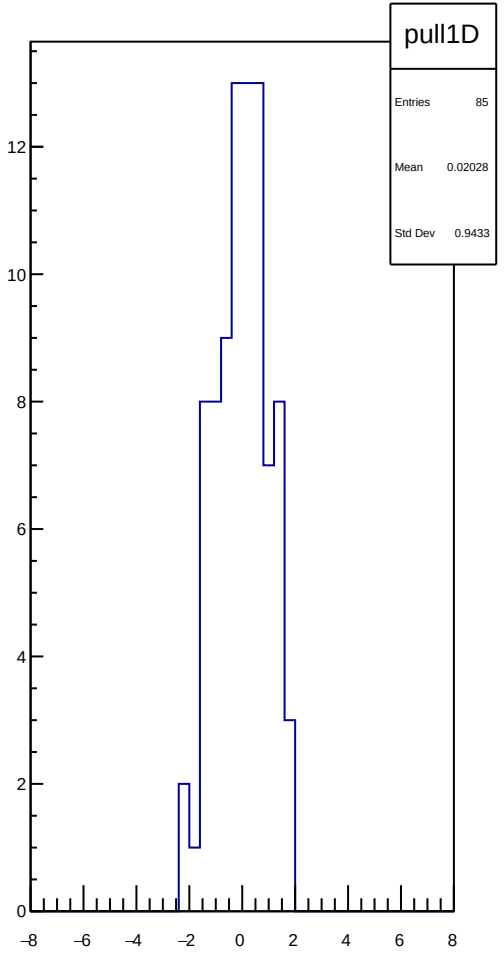

pull1D
Entries 85
Mean −0.03108
Std Dev 1.02

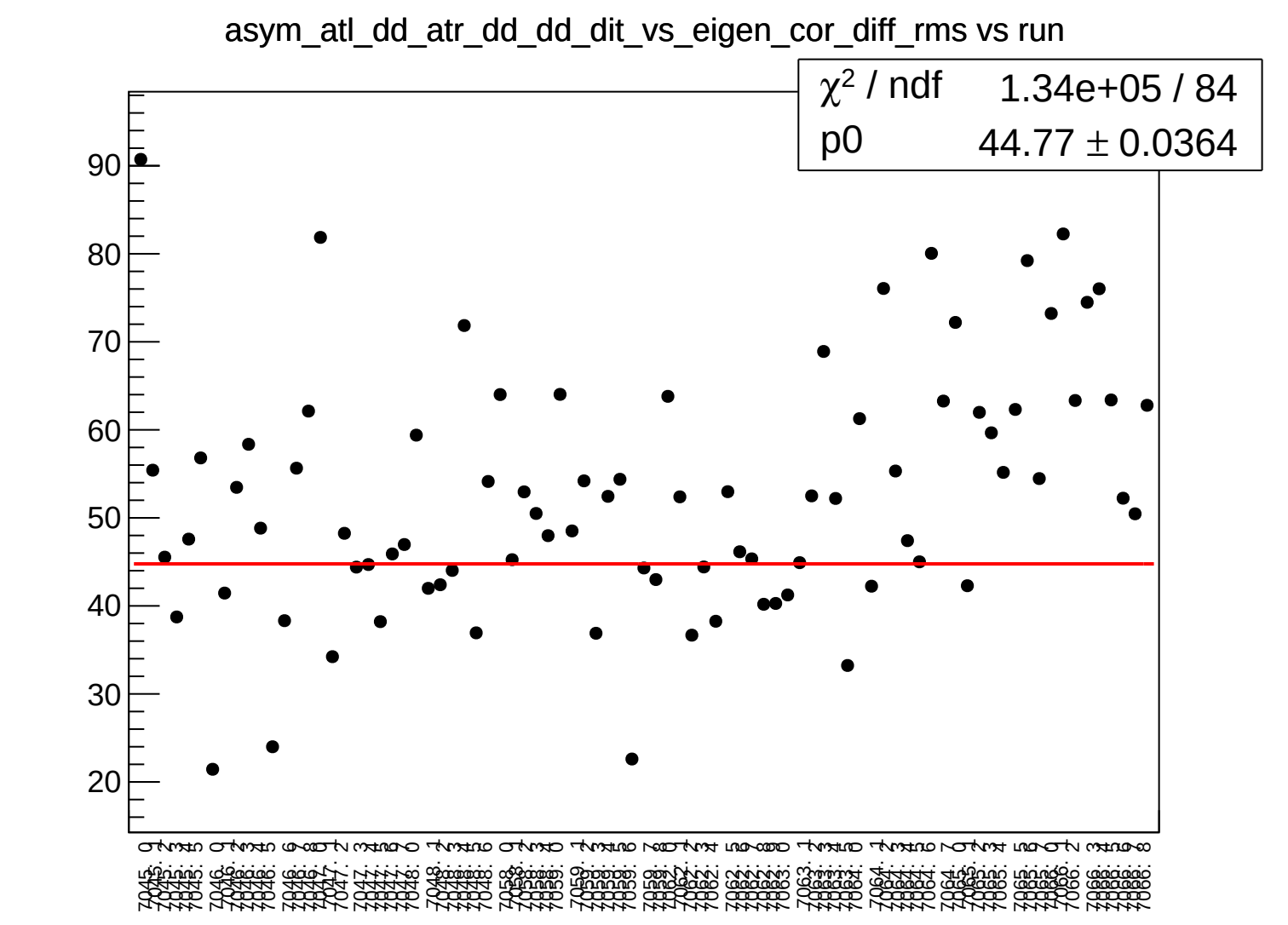

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.832e+05 / 84
p0 1.173e−11 ± 1.342e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

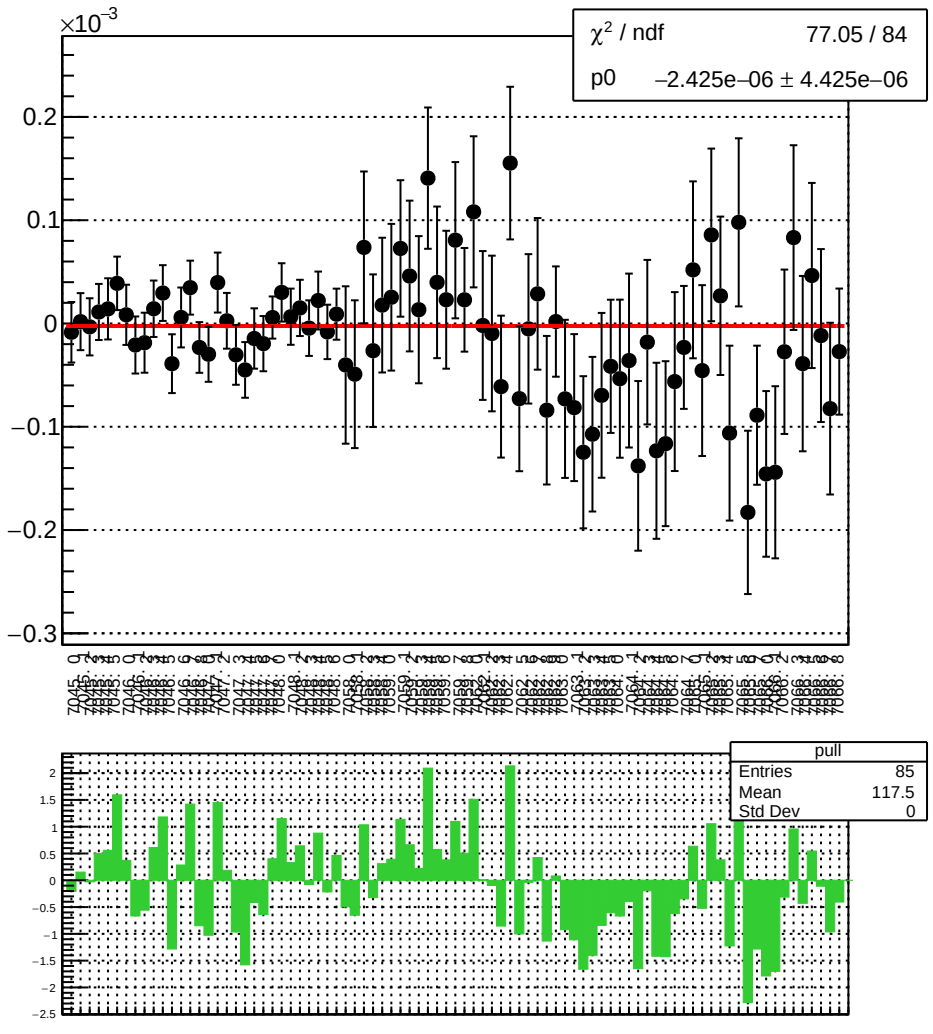

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007005 ± 0.05147
pull
Entries 85
Mean 228.5
Std Dev 0
pull1D
Entries 85
Mean 0.02028
Std Dev 0.9433

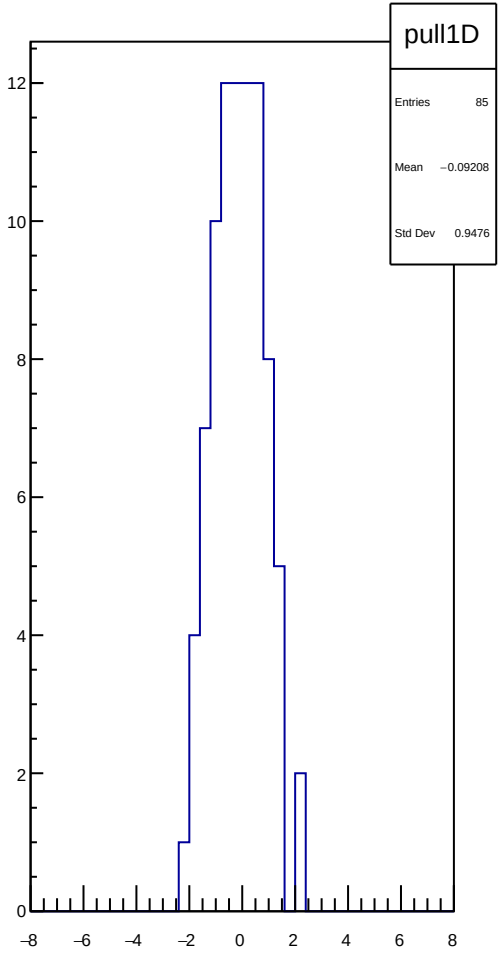

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.0364
90
80
70
60
50
40
30
20

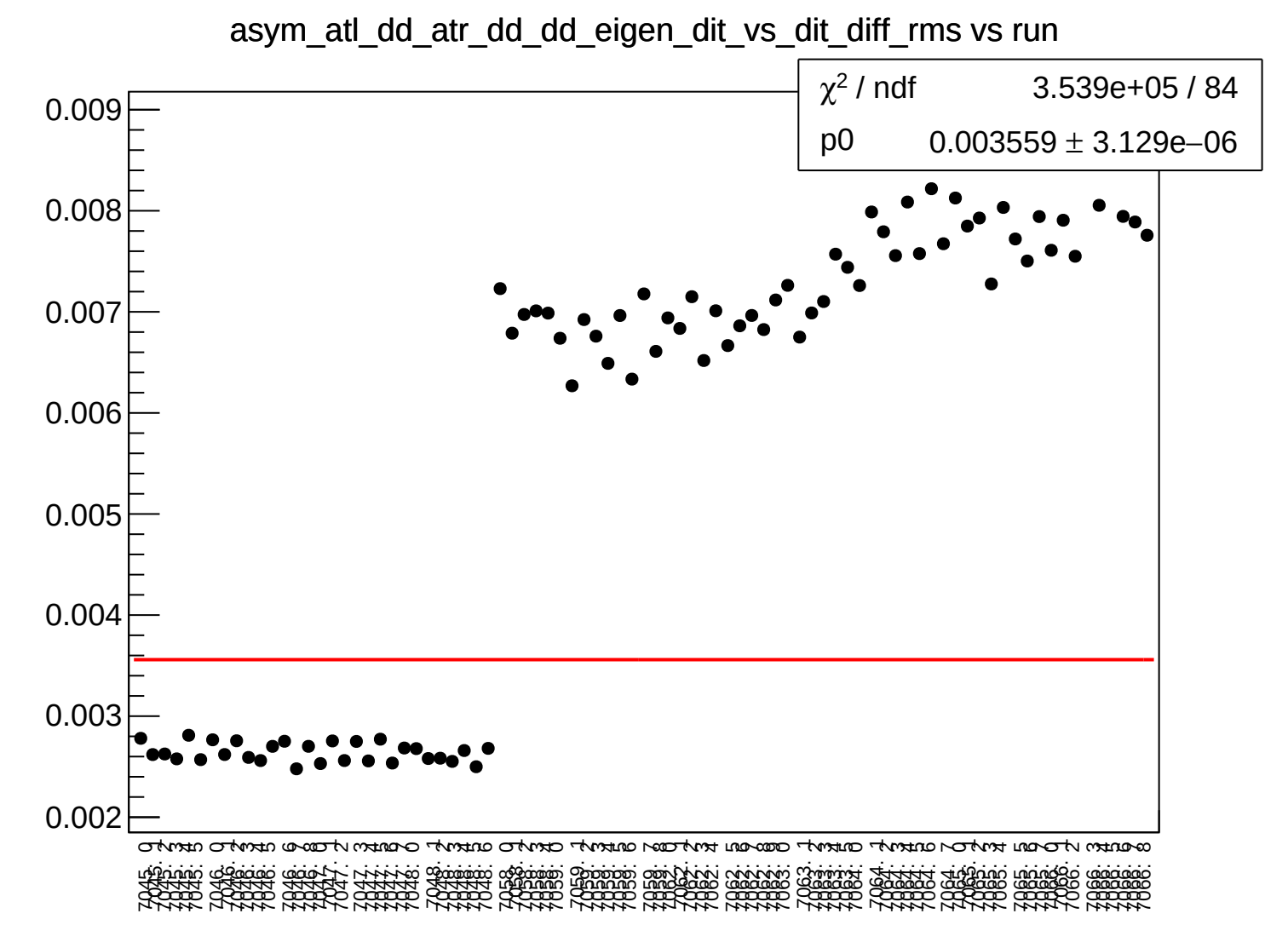

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007005 ± 0.05147
pull
Entries 85
Mean 228.5
Std Dev 0

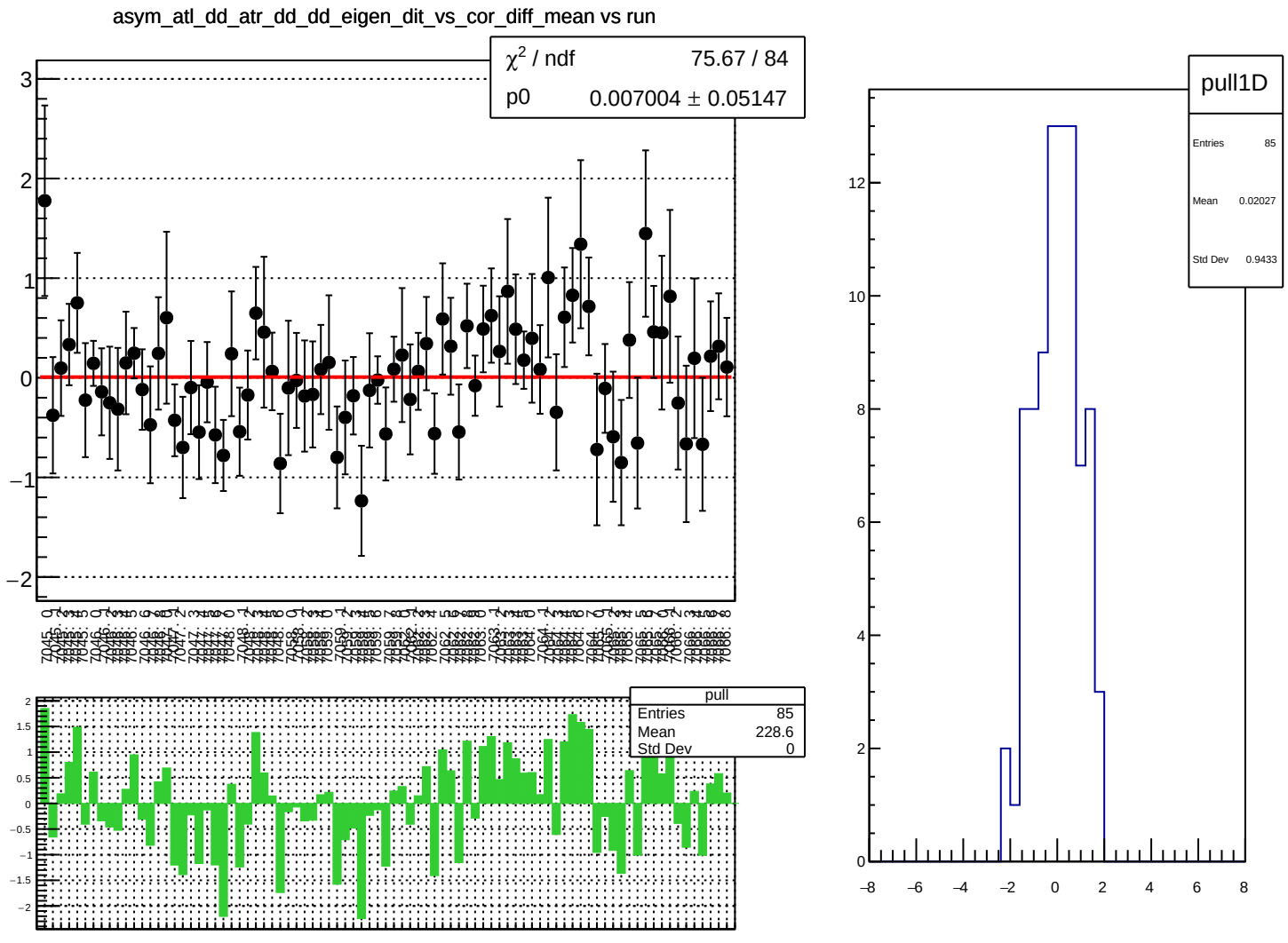

pull1D
Entries 85
Mean 0.02028
Std Dev 0.9433

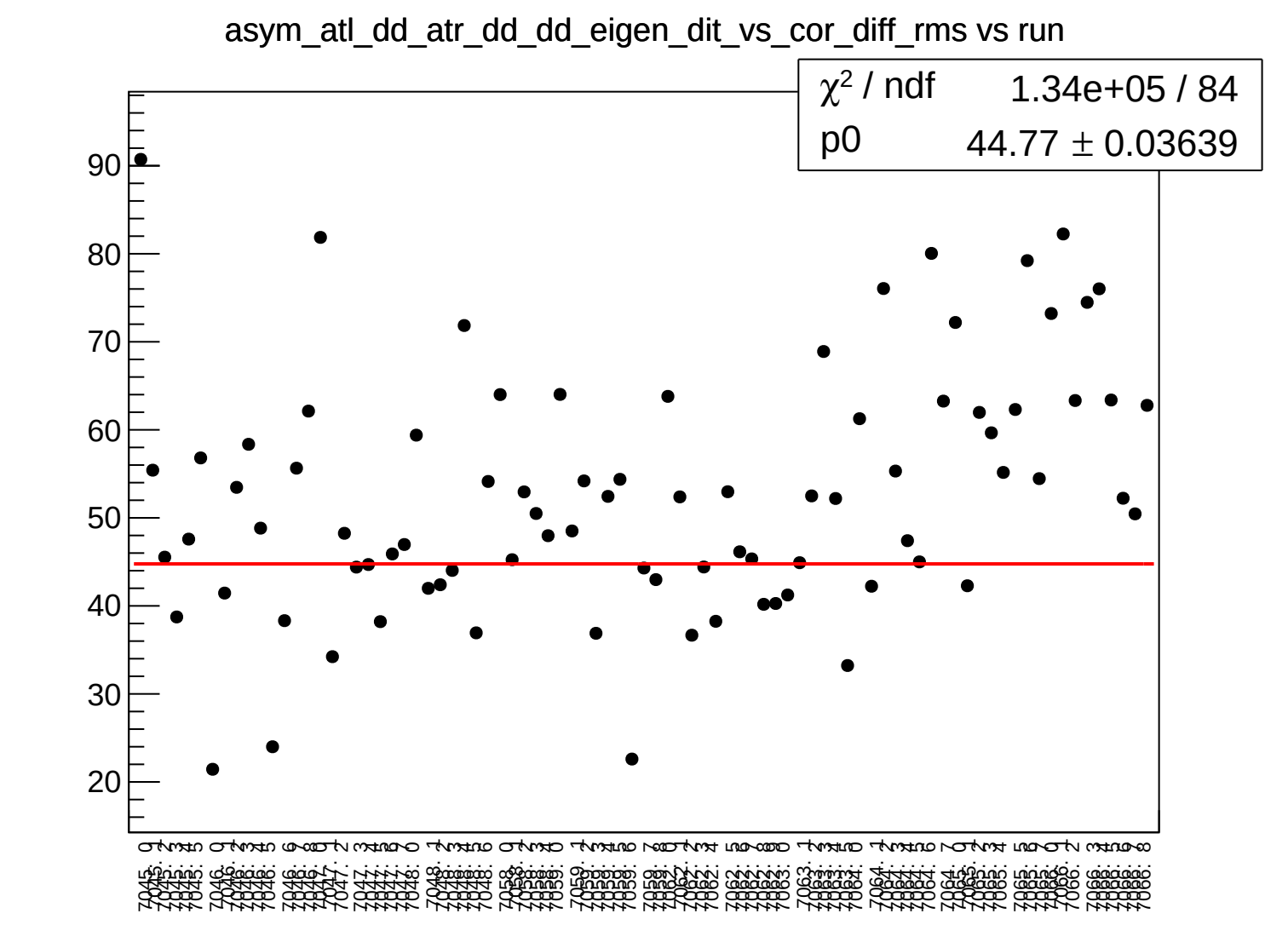

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.0364
90
80
70
60
50
40
30
20

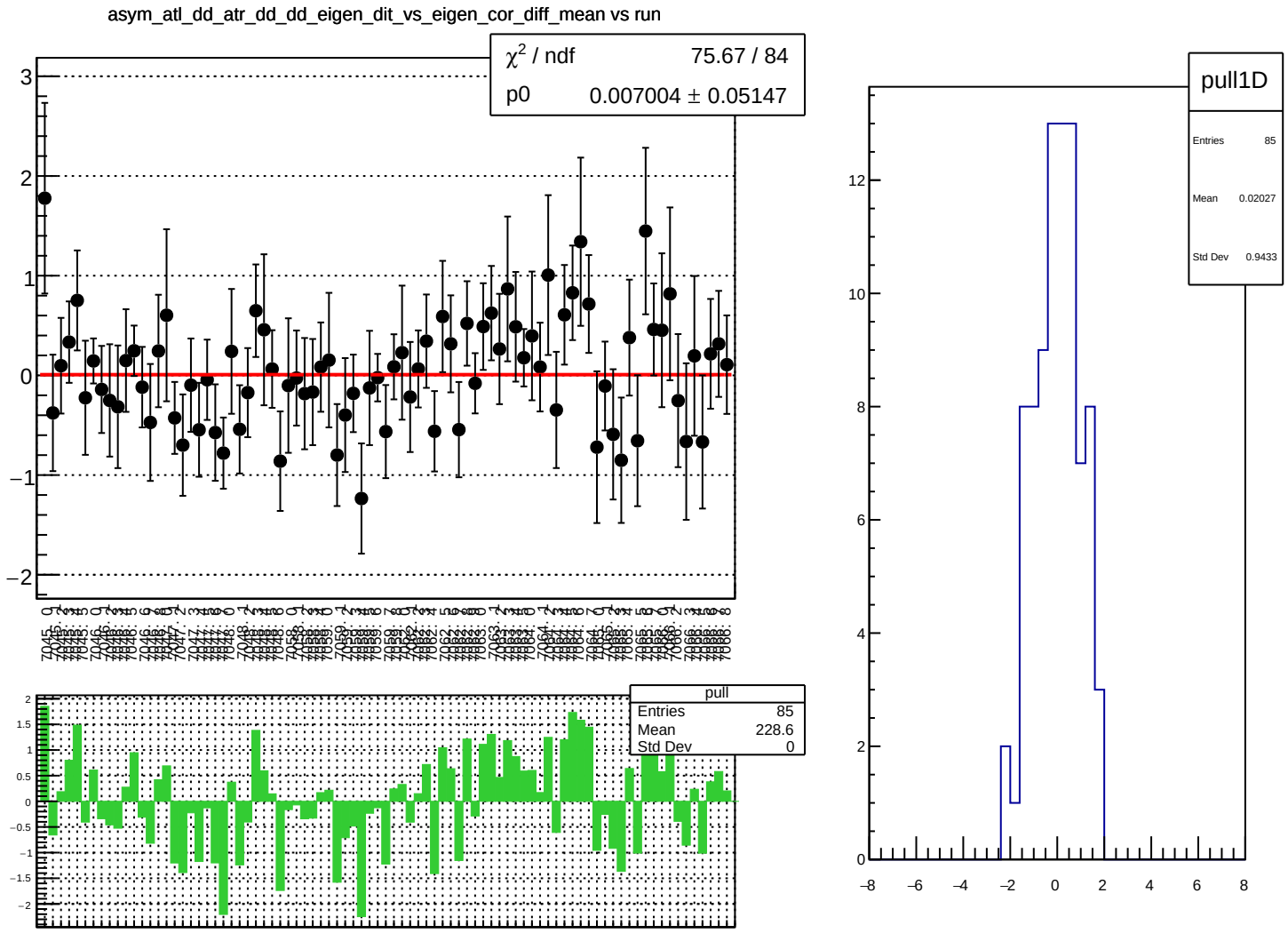

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.05 / 84
p0 −2.425e−06 ± 4.425e−06
pull
Entries 85
Mean 117.5
Std Dev 0

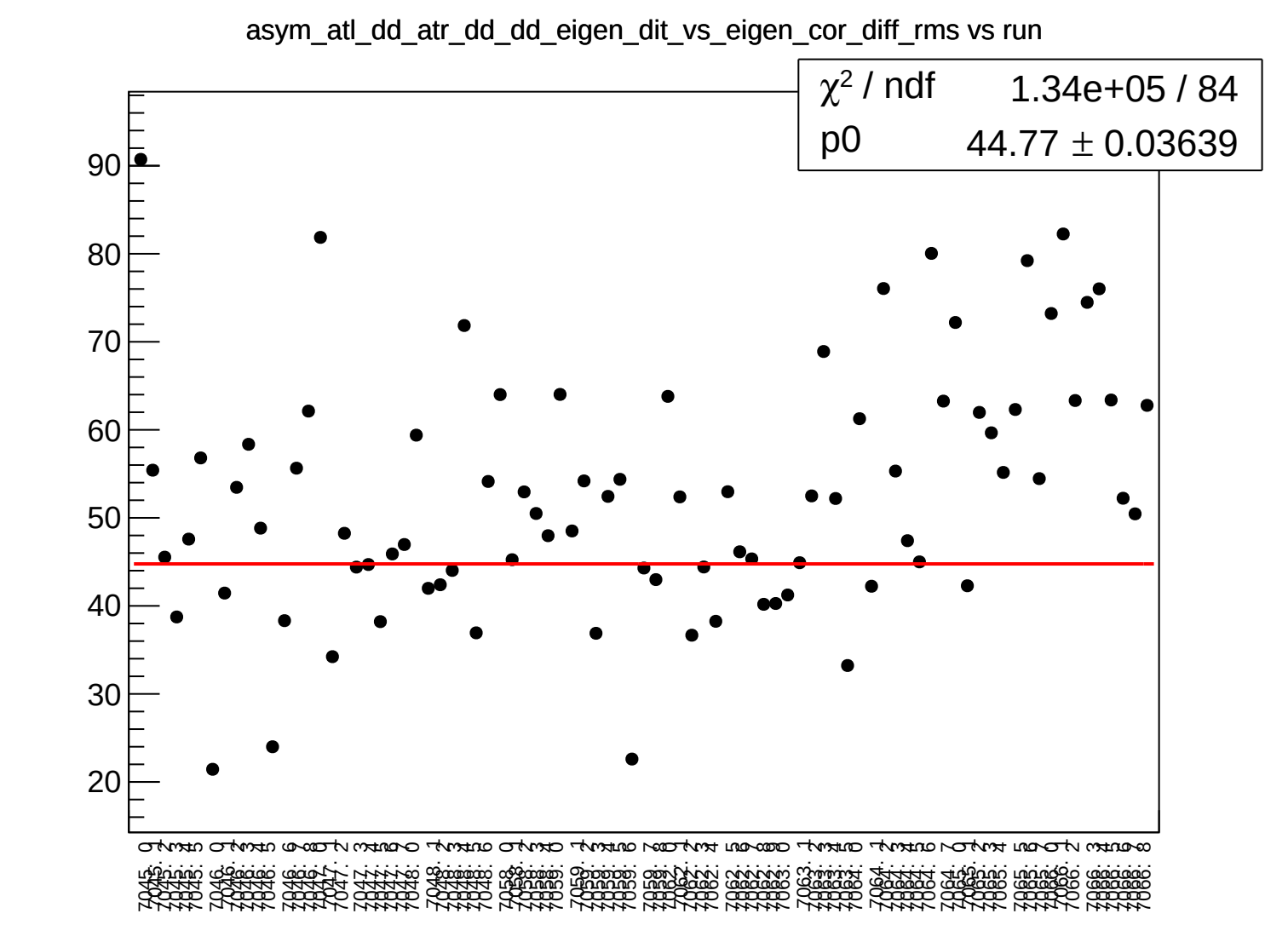

pull1D
Entries 85
Mean −0.09208
Std Dev 0.9476

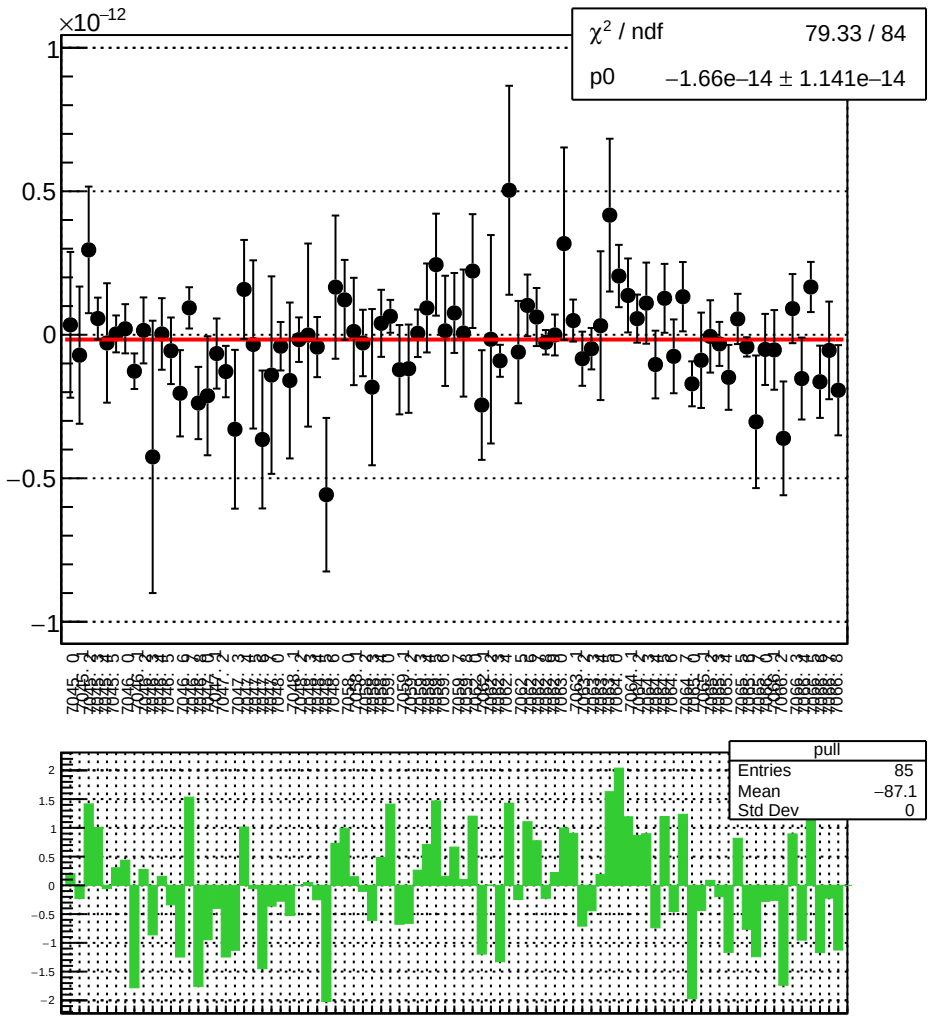

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.539e+05 / 84
p0 0.003559 ± 3.129e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

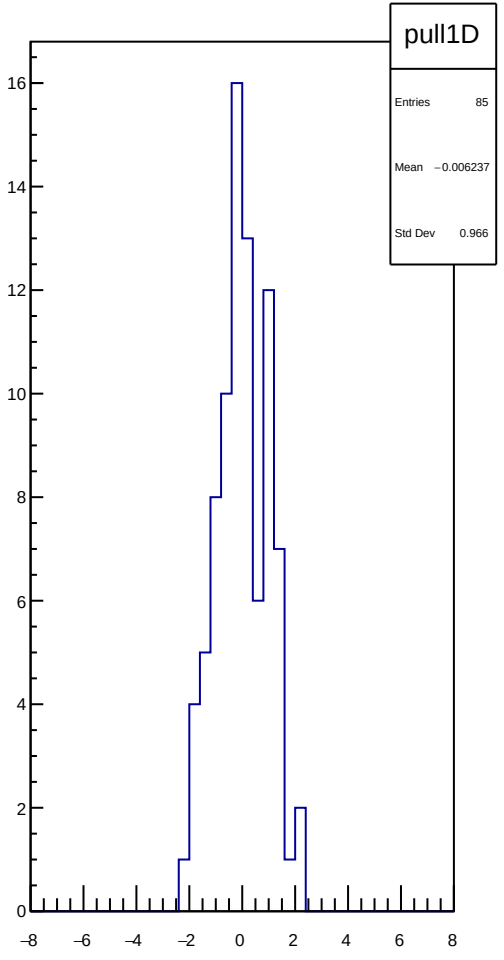

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007004 ± 0.05147
pull
Entries 85
Mean 228.6
Std Dev 0
pull1D
Entries 85
Mean 0.02027
Std Dev 0.9433

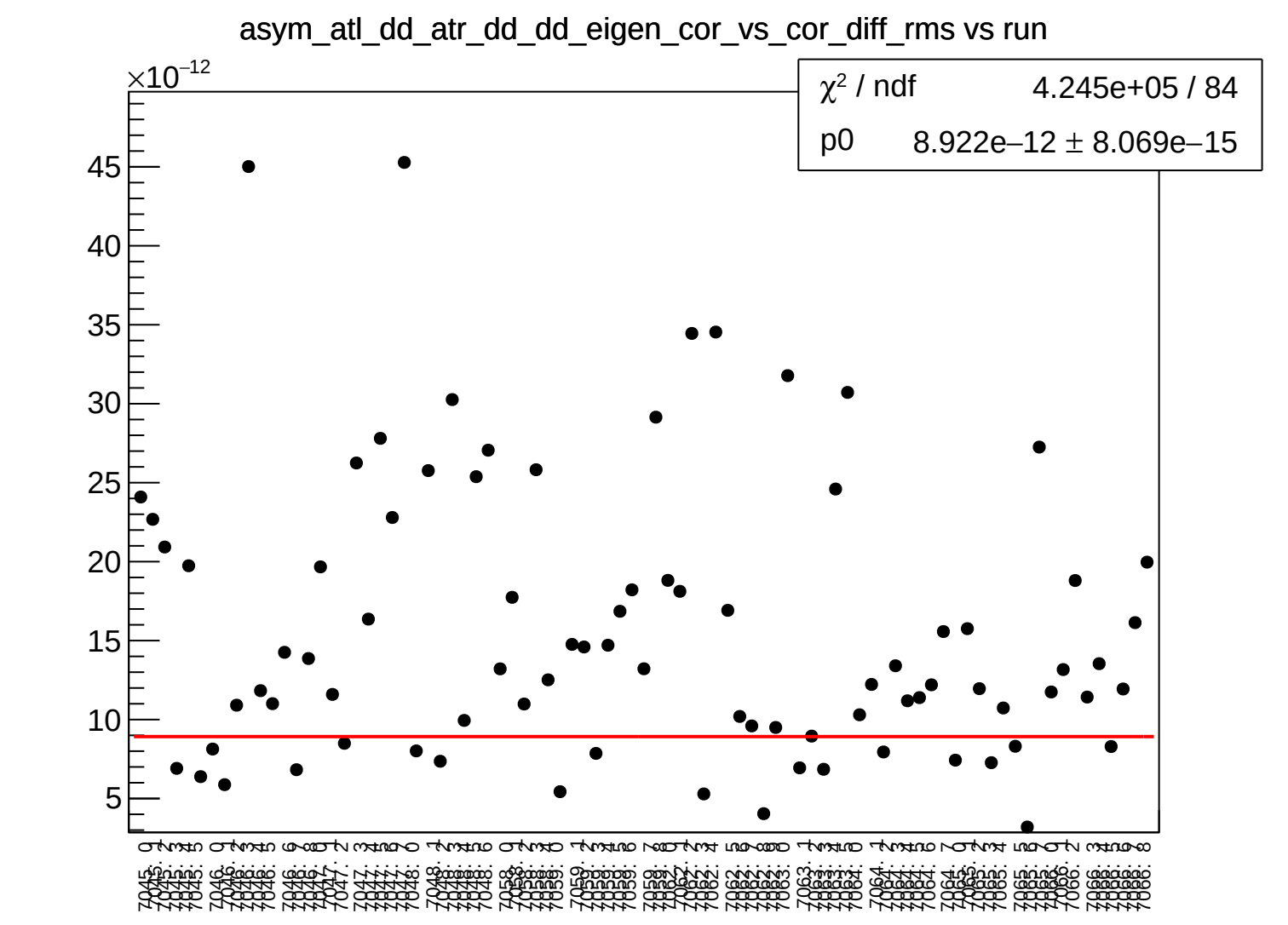

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.03639
90
80
70
60
50
40
30
20

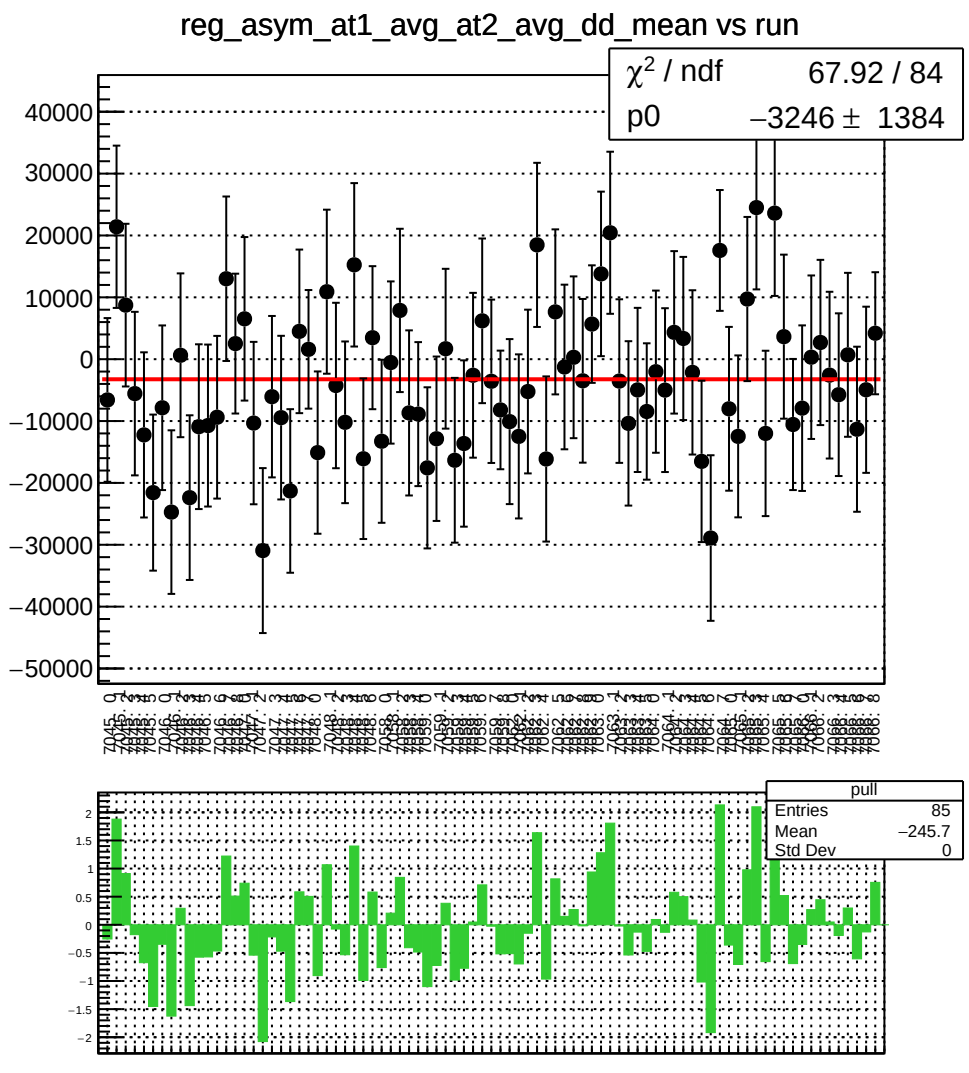

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007004 ± 0.05147
pull
Entries 85
Mean 228.6
Std Dev 0
pull1D
Entries 85
Mean 0.02027
Std Dev 0.9433

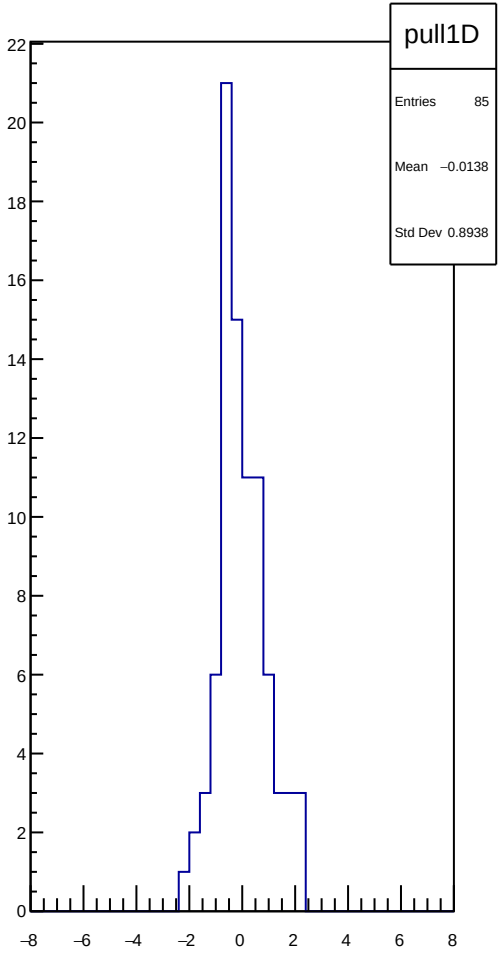

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.03639
90
80
70
60
50
40
30
20

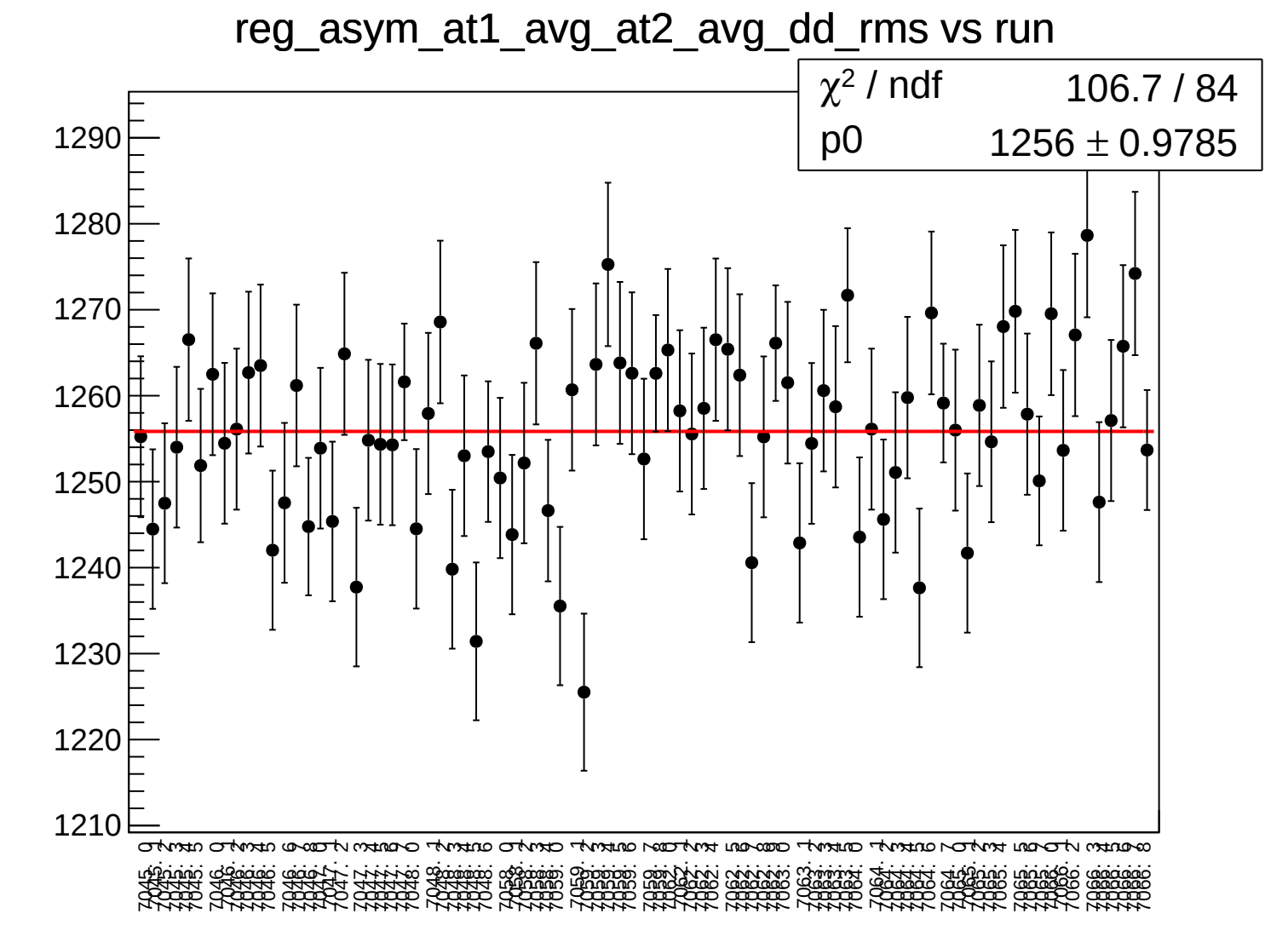

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.33 / 84
p0 −1.66e−14 ± 1.141e−14
pull
Entries 85
Mean −87.1
Std Dev 0

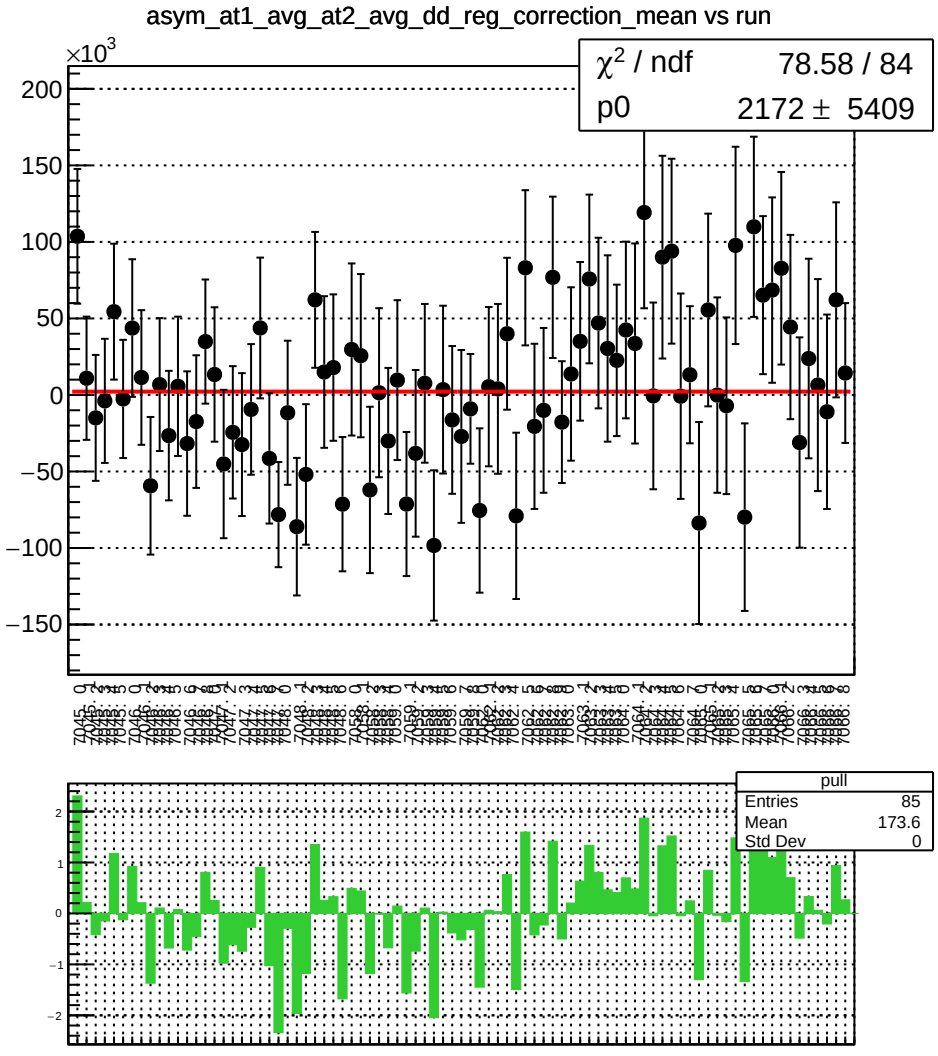

pull1D
Entries 85
Mean −0.006237
Std Dev 0.966

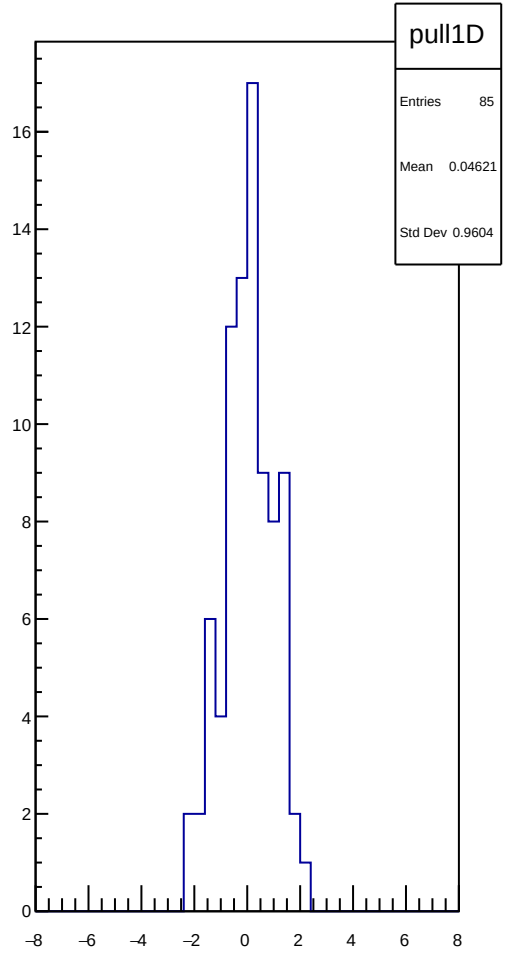

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.245e+05 / 84
p0 8.922e−12 ± 8.069e−15
45
40
35
30
25
20
15
10
5

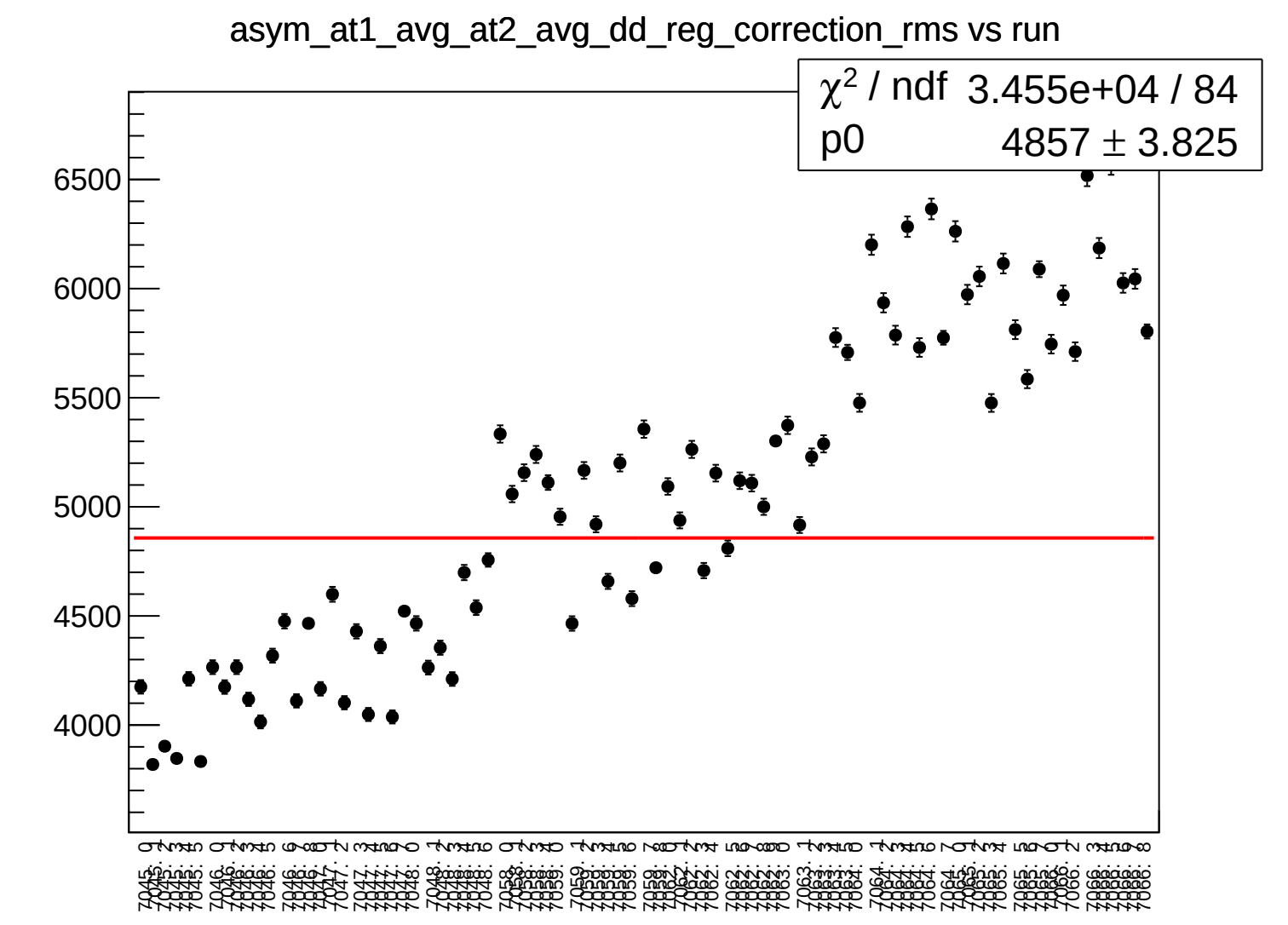

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.7
Std Dev 0

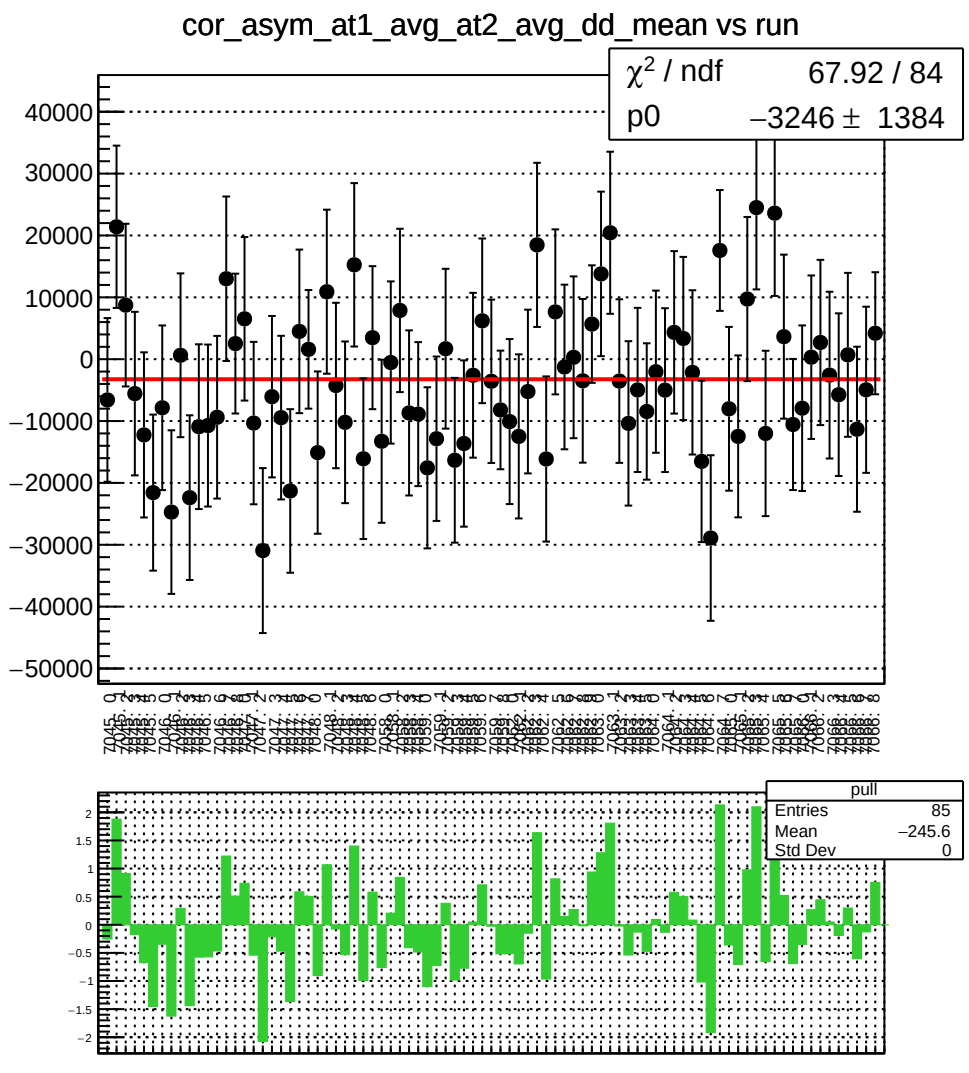

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

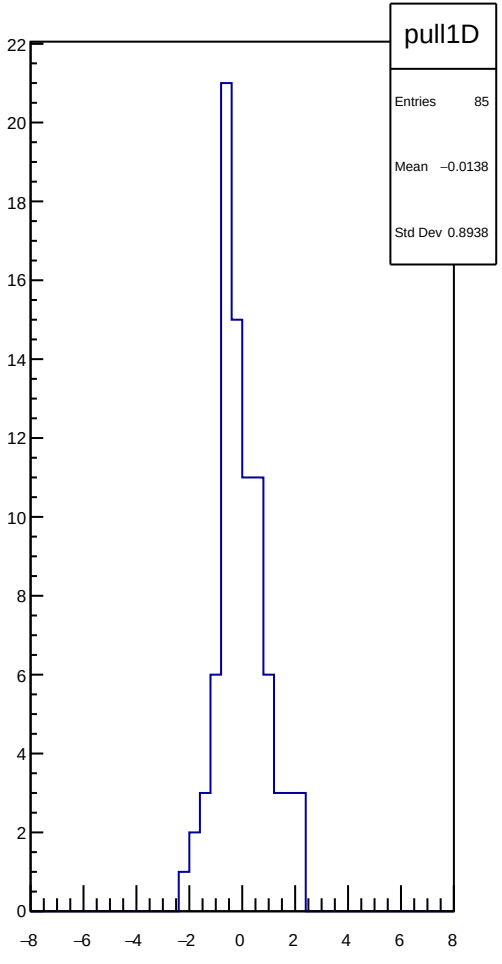

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

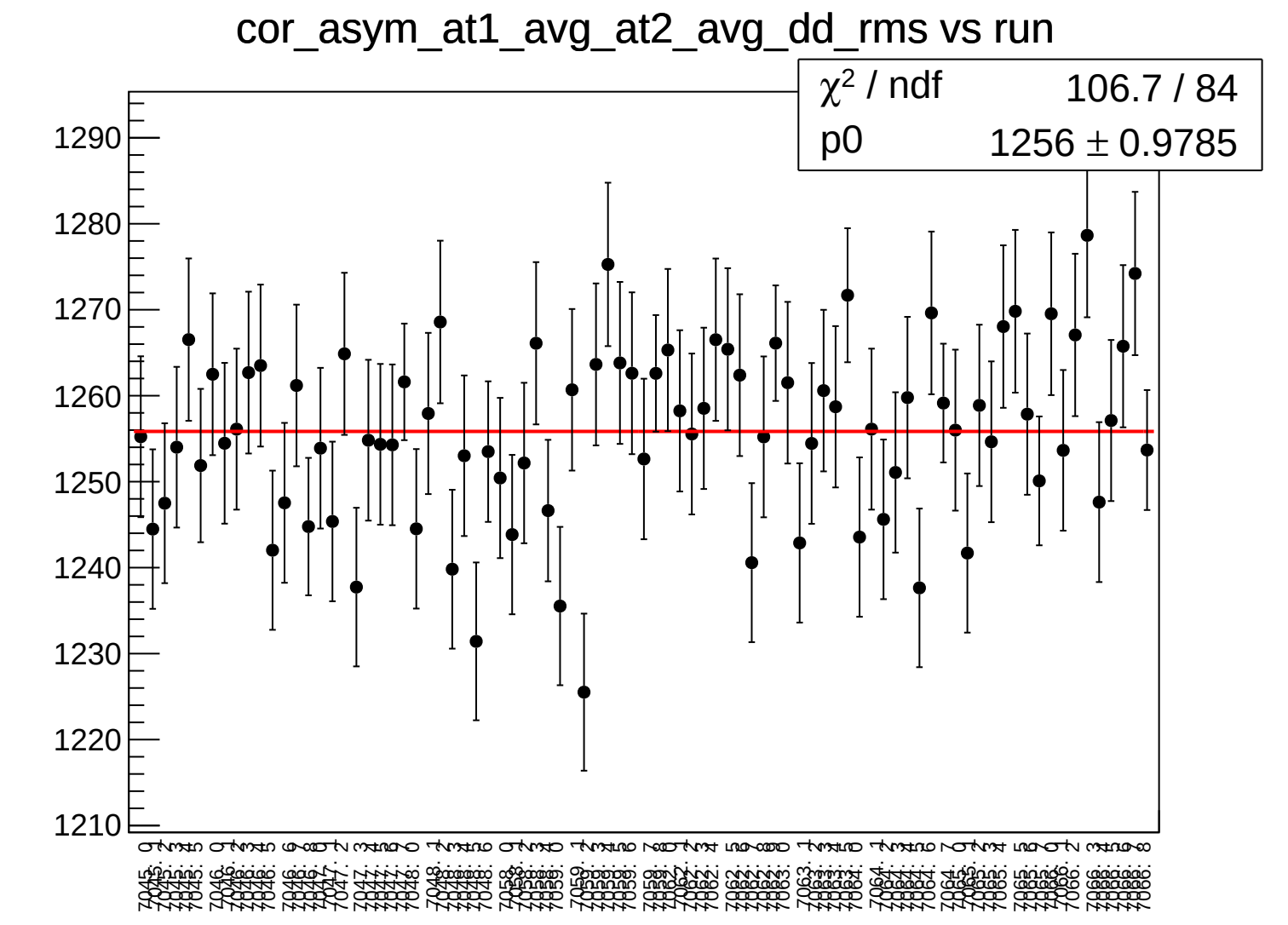

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

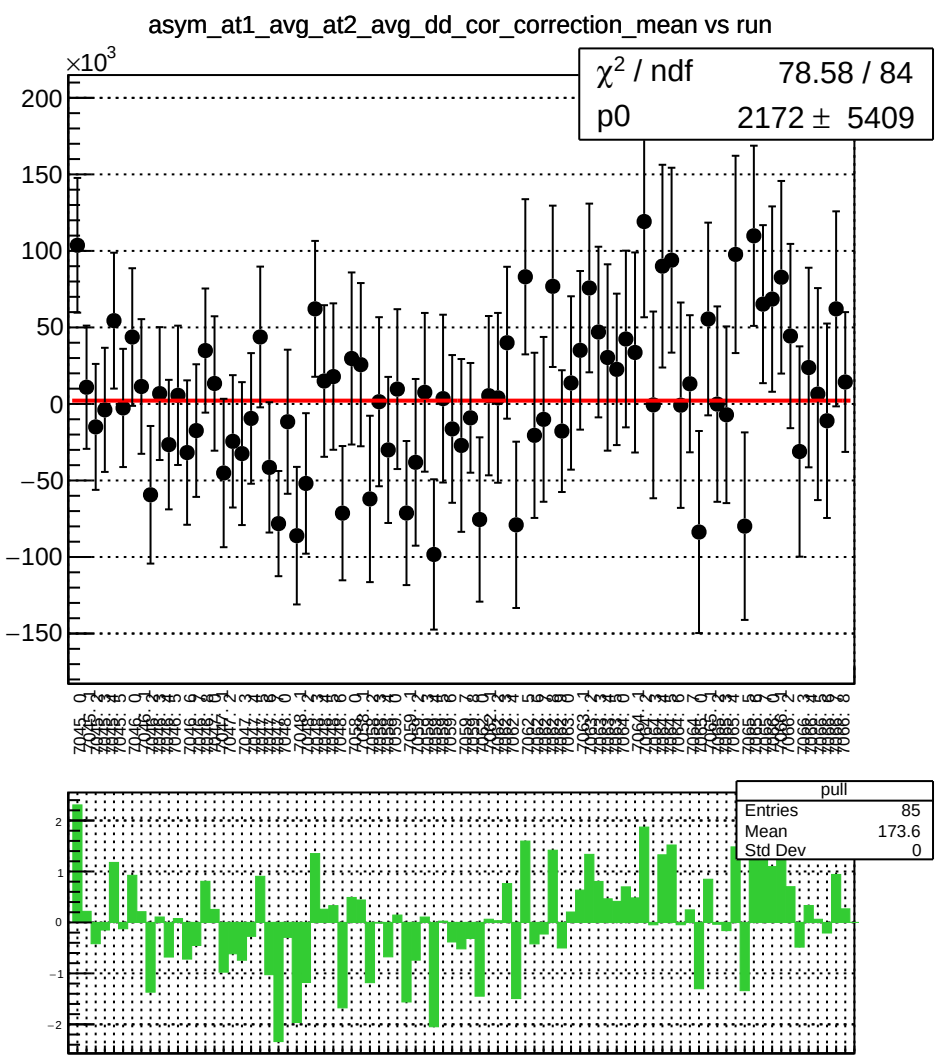

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

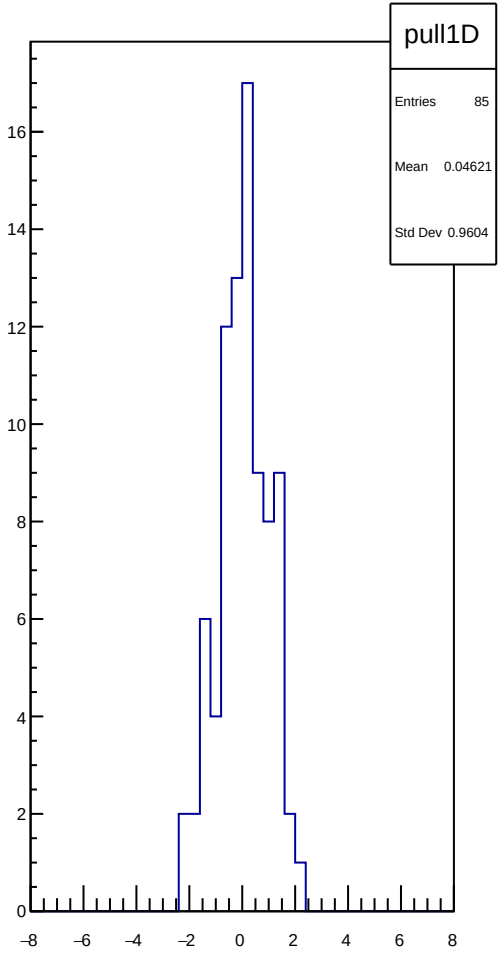

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

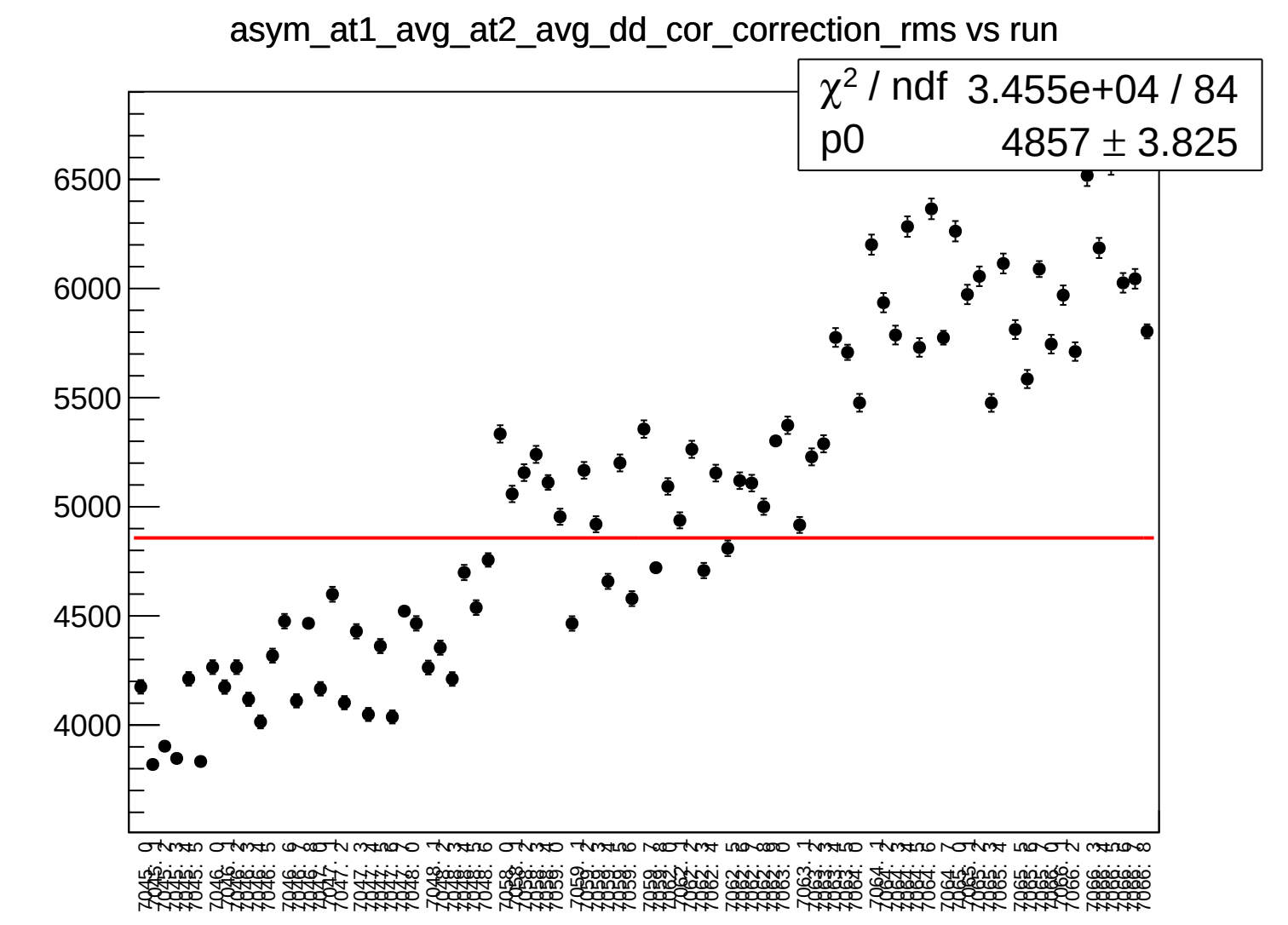

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.6
Std Dev 0

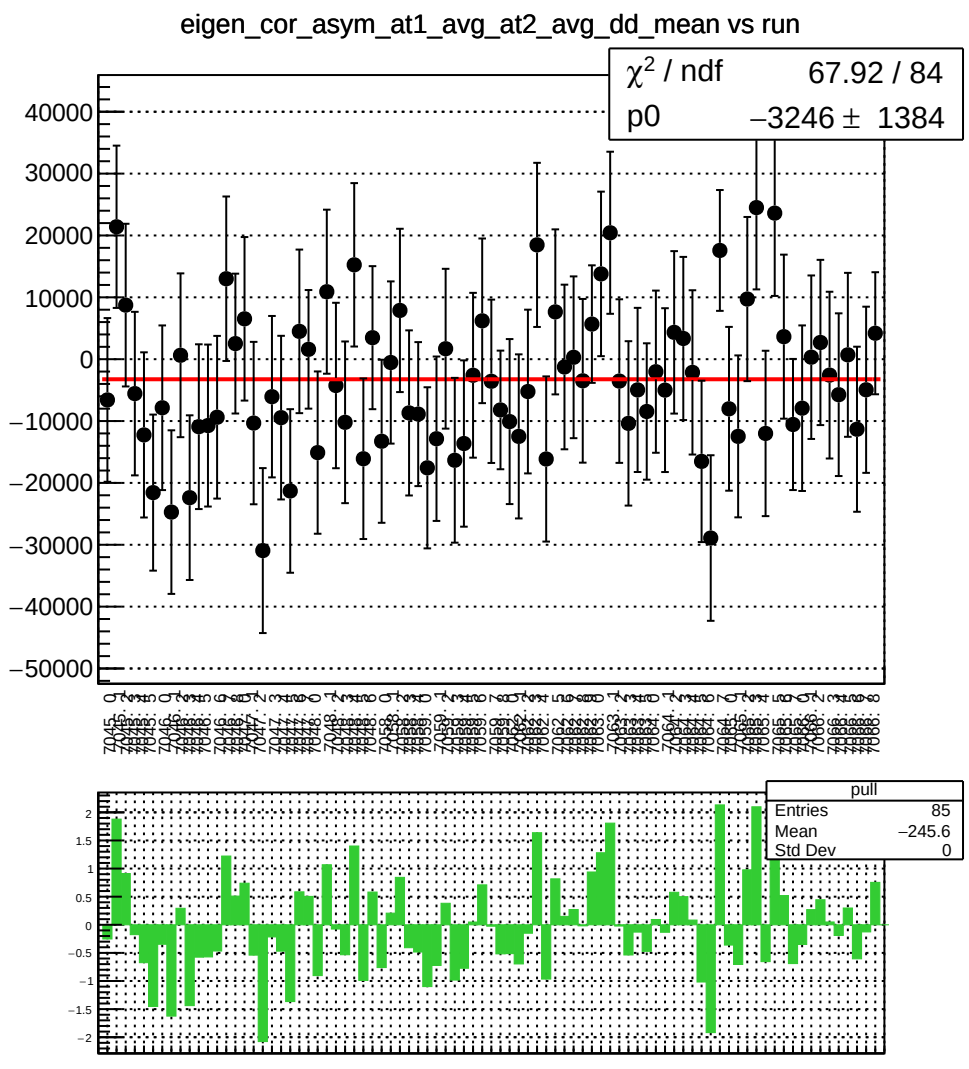

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

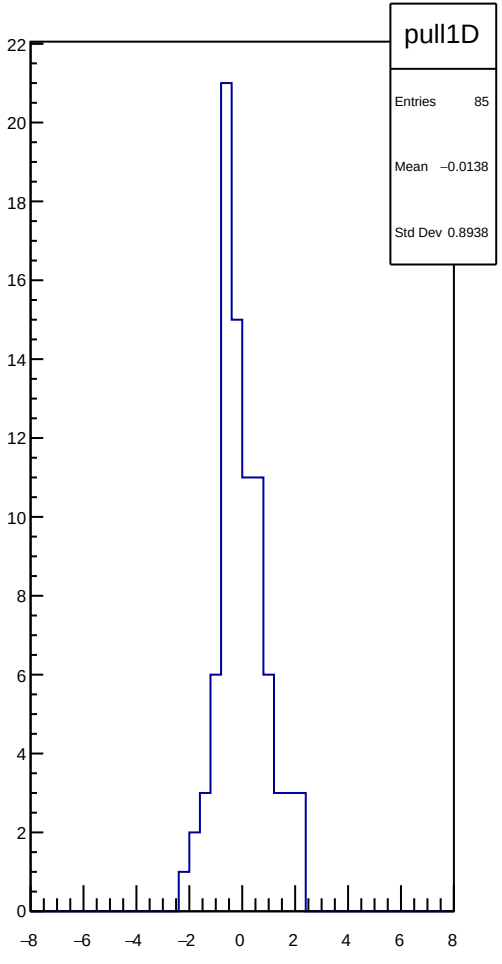

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

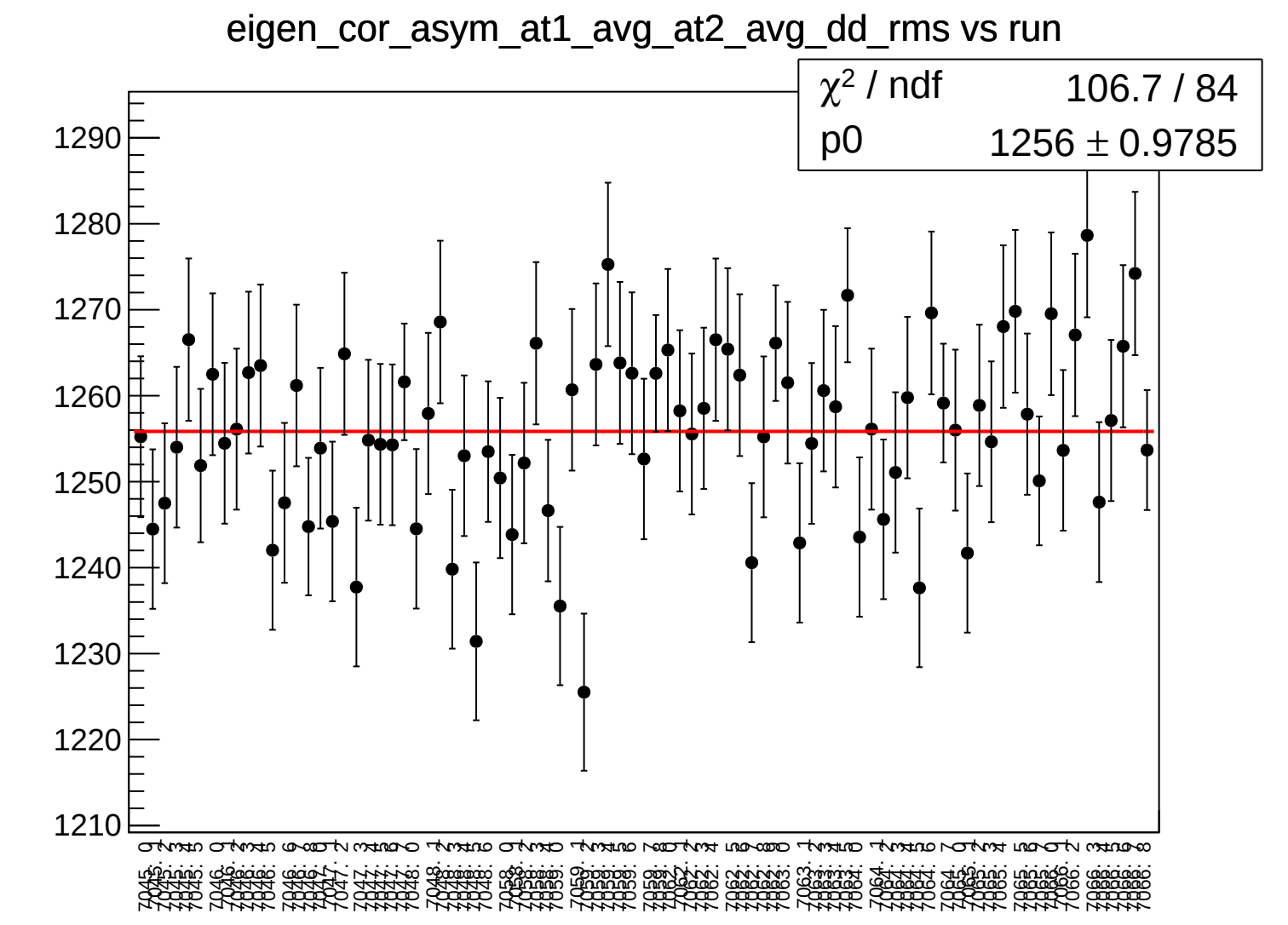

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

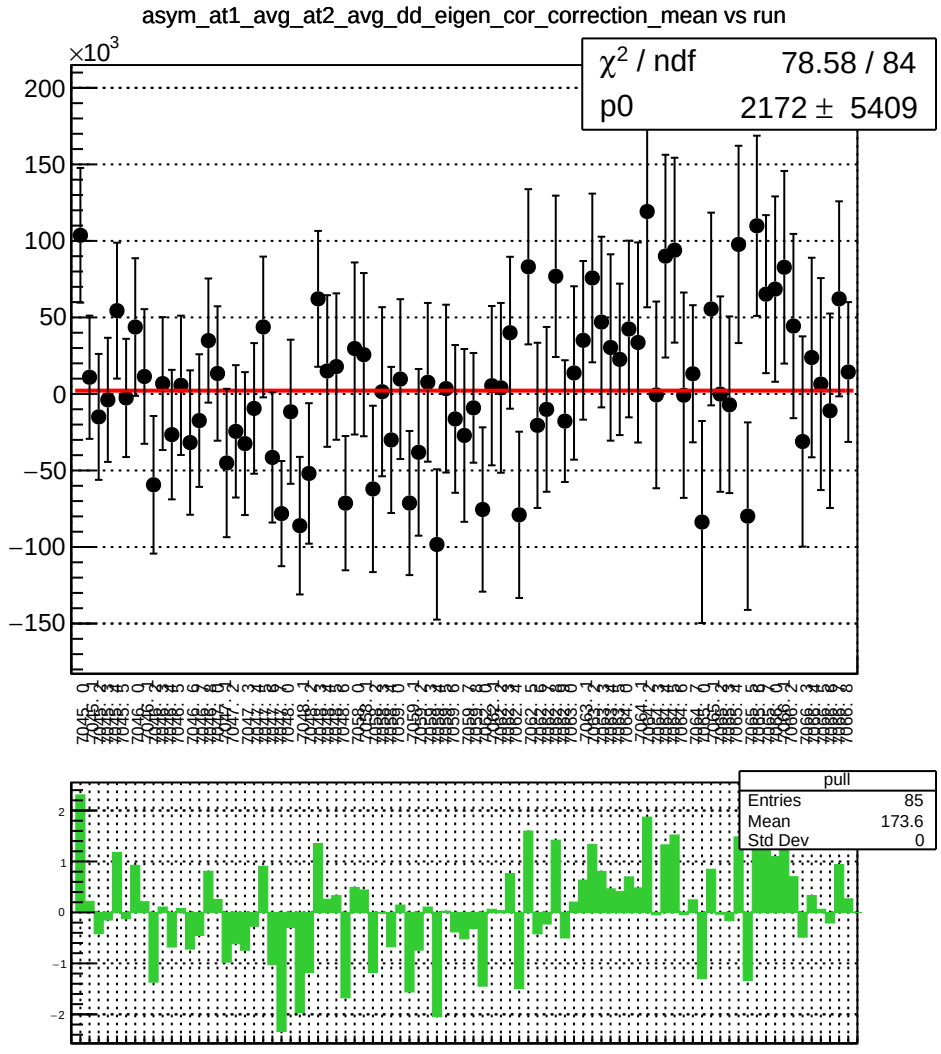

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

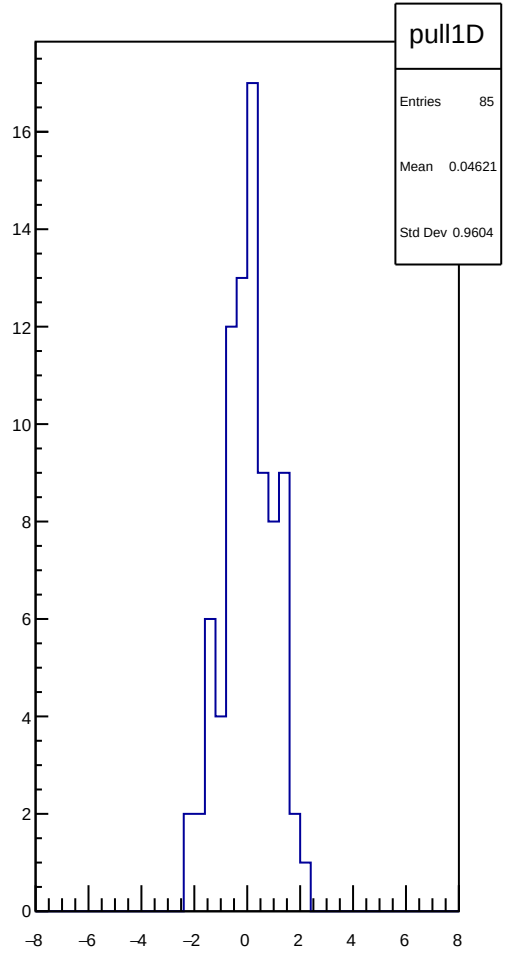

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

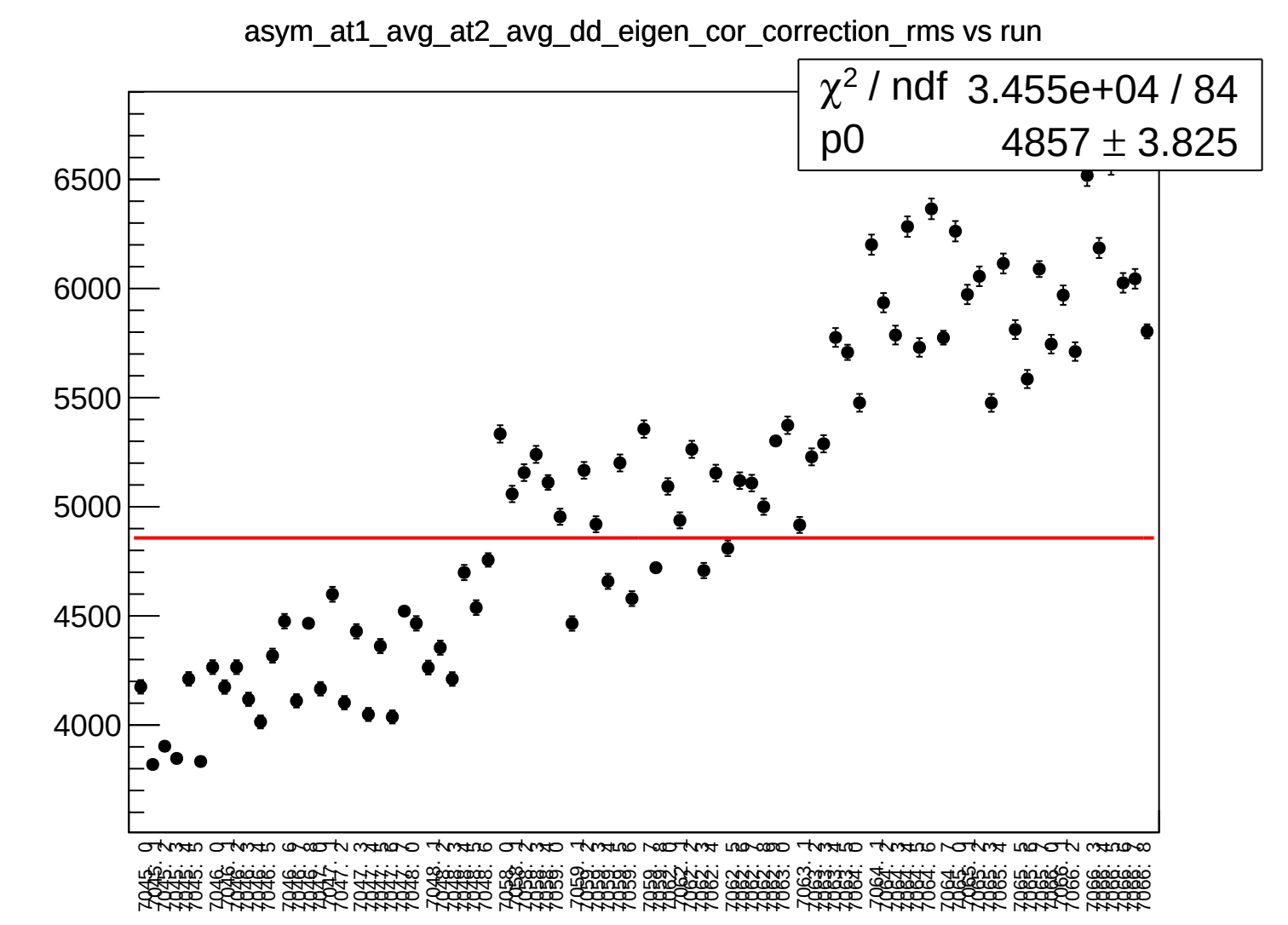

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.6
Std Dev 0

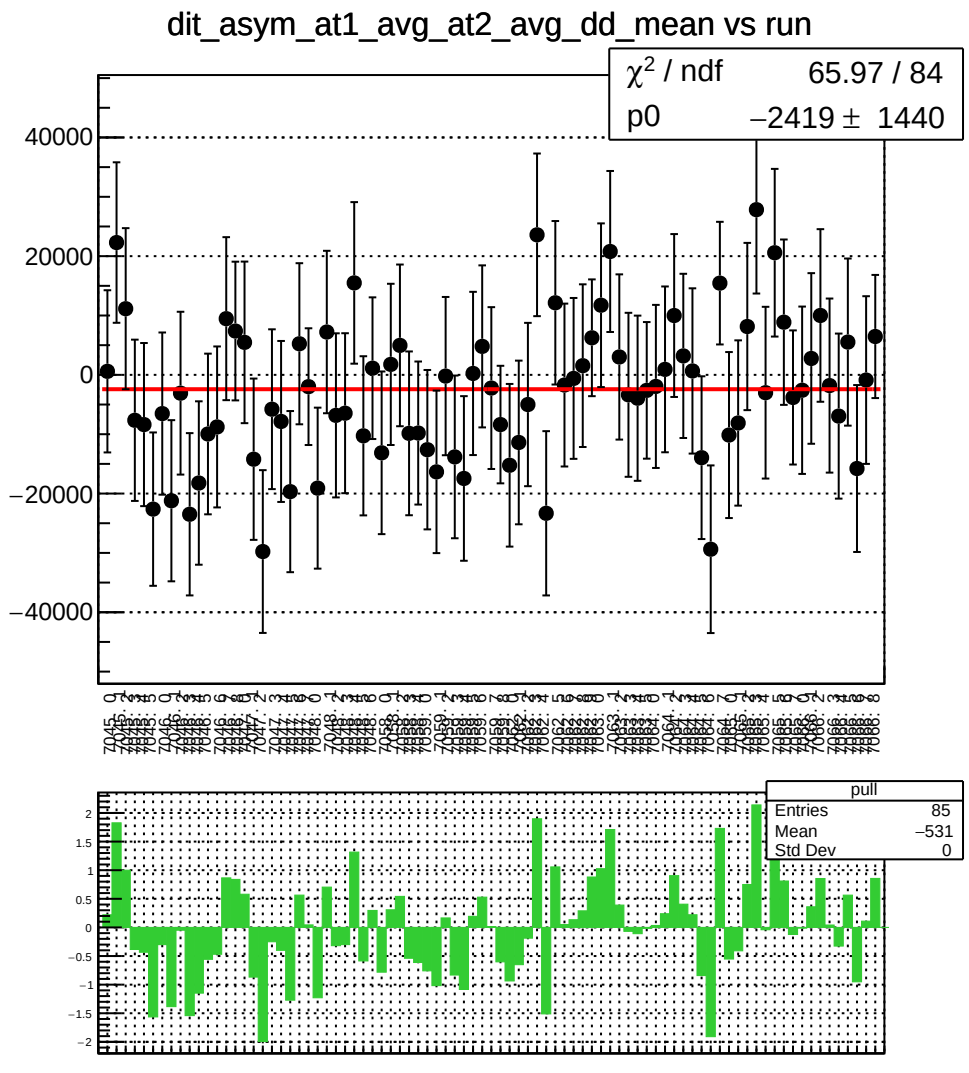

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

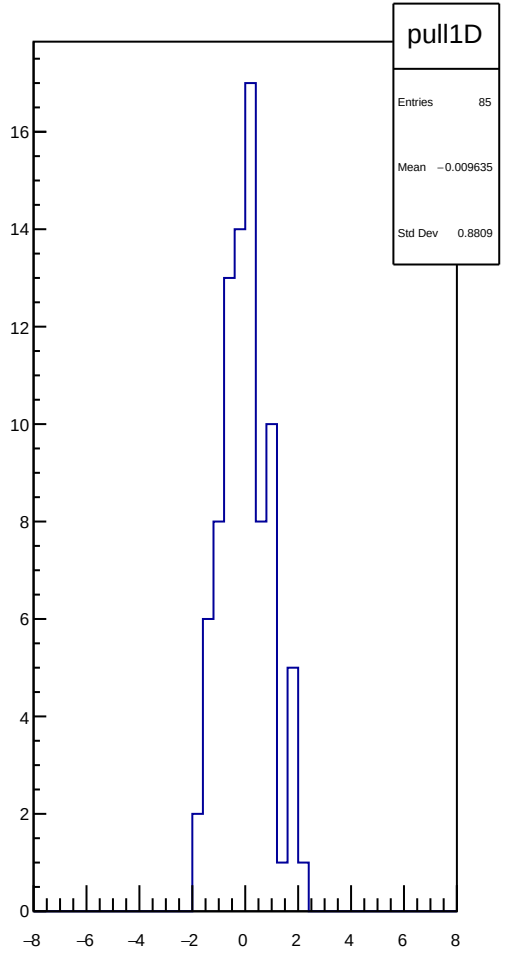

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

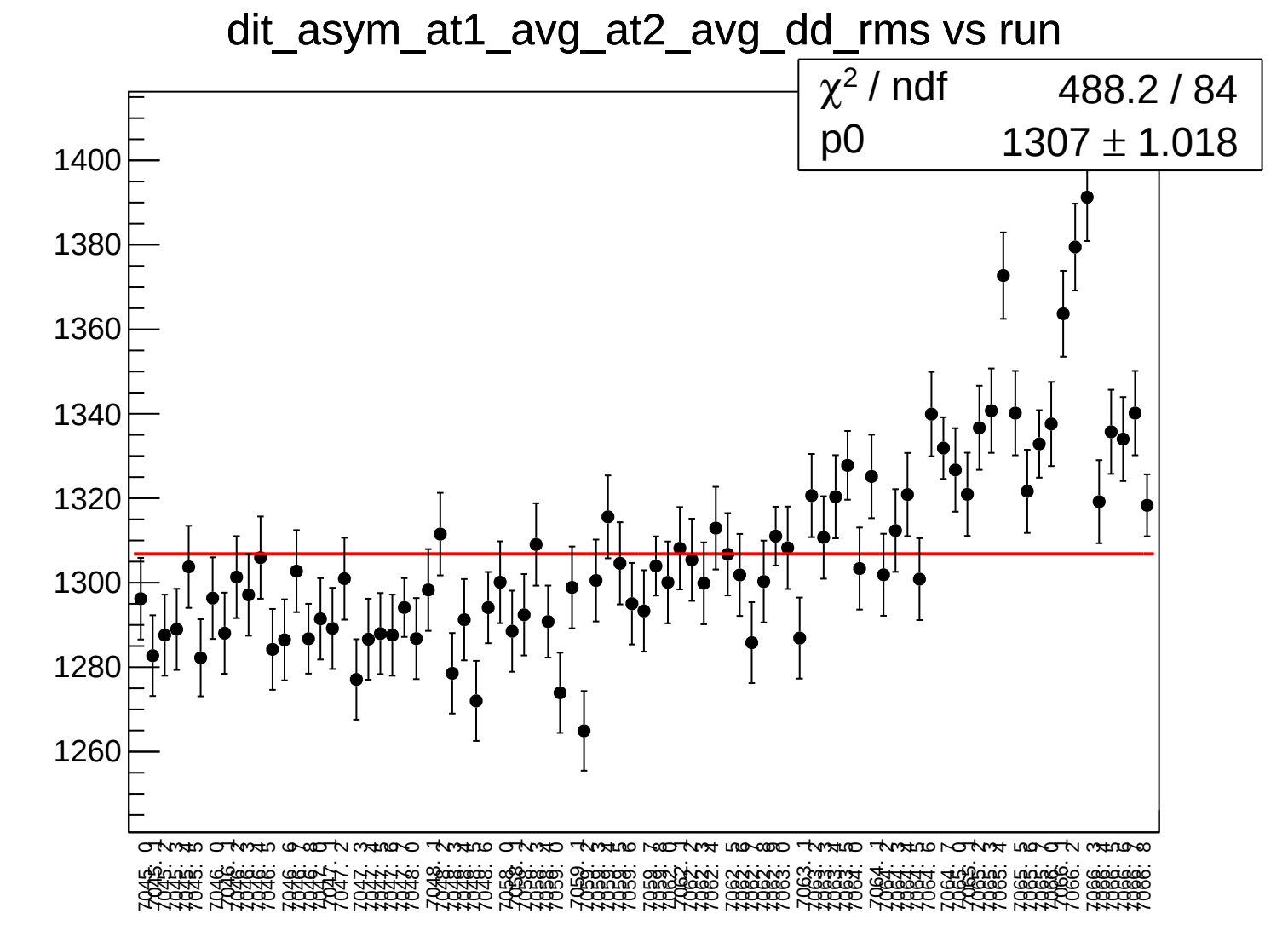

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

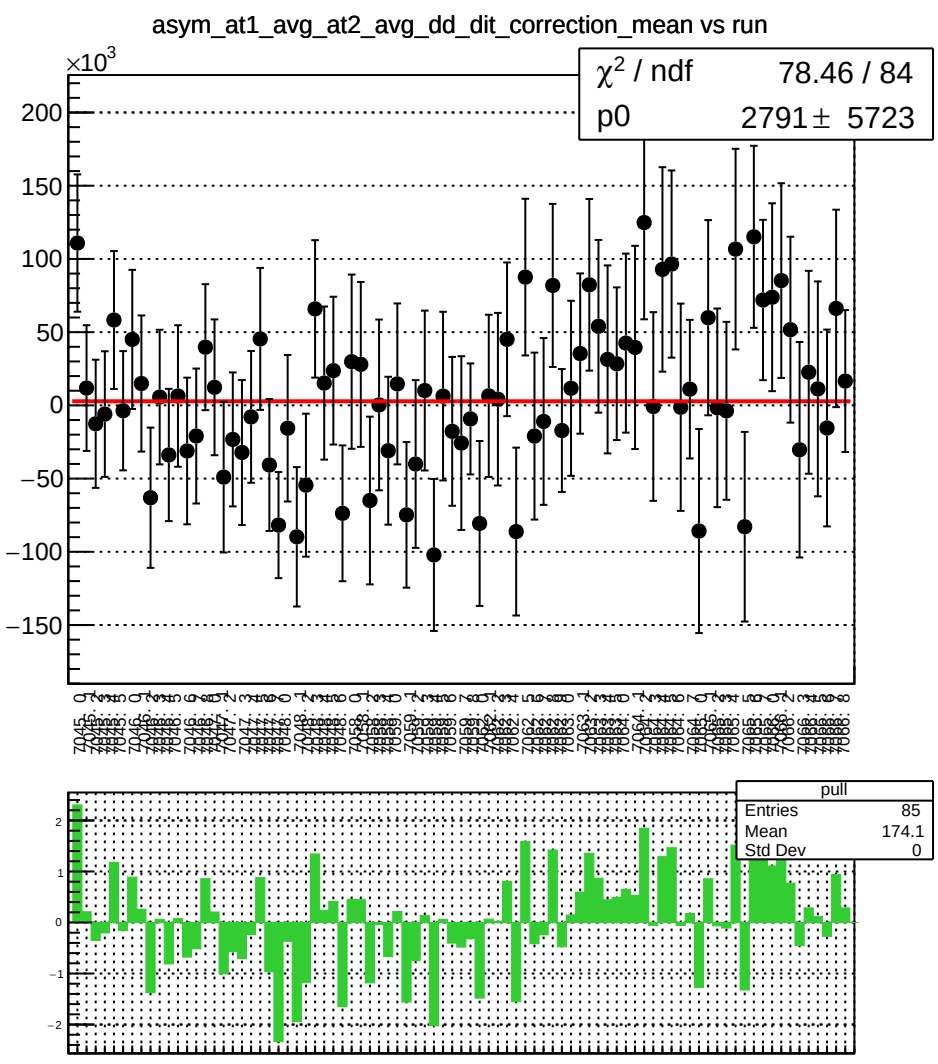

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

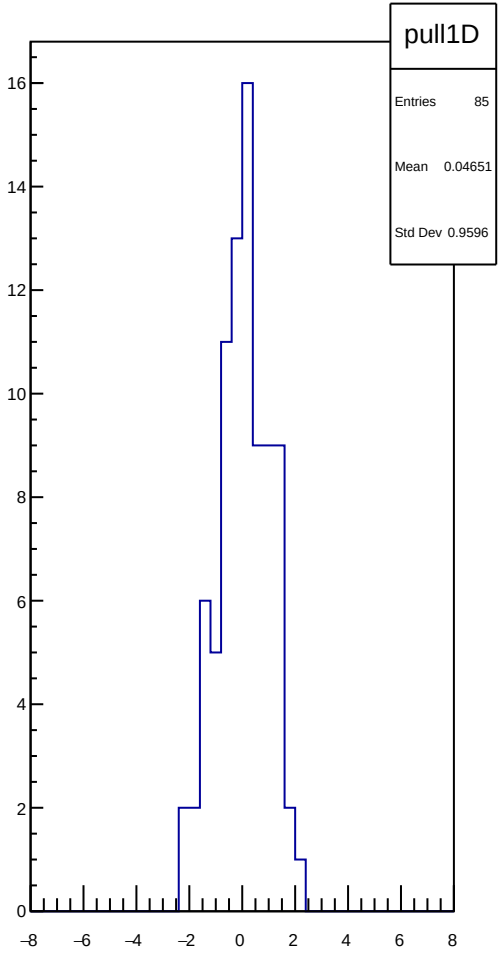

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

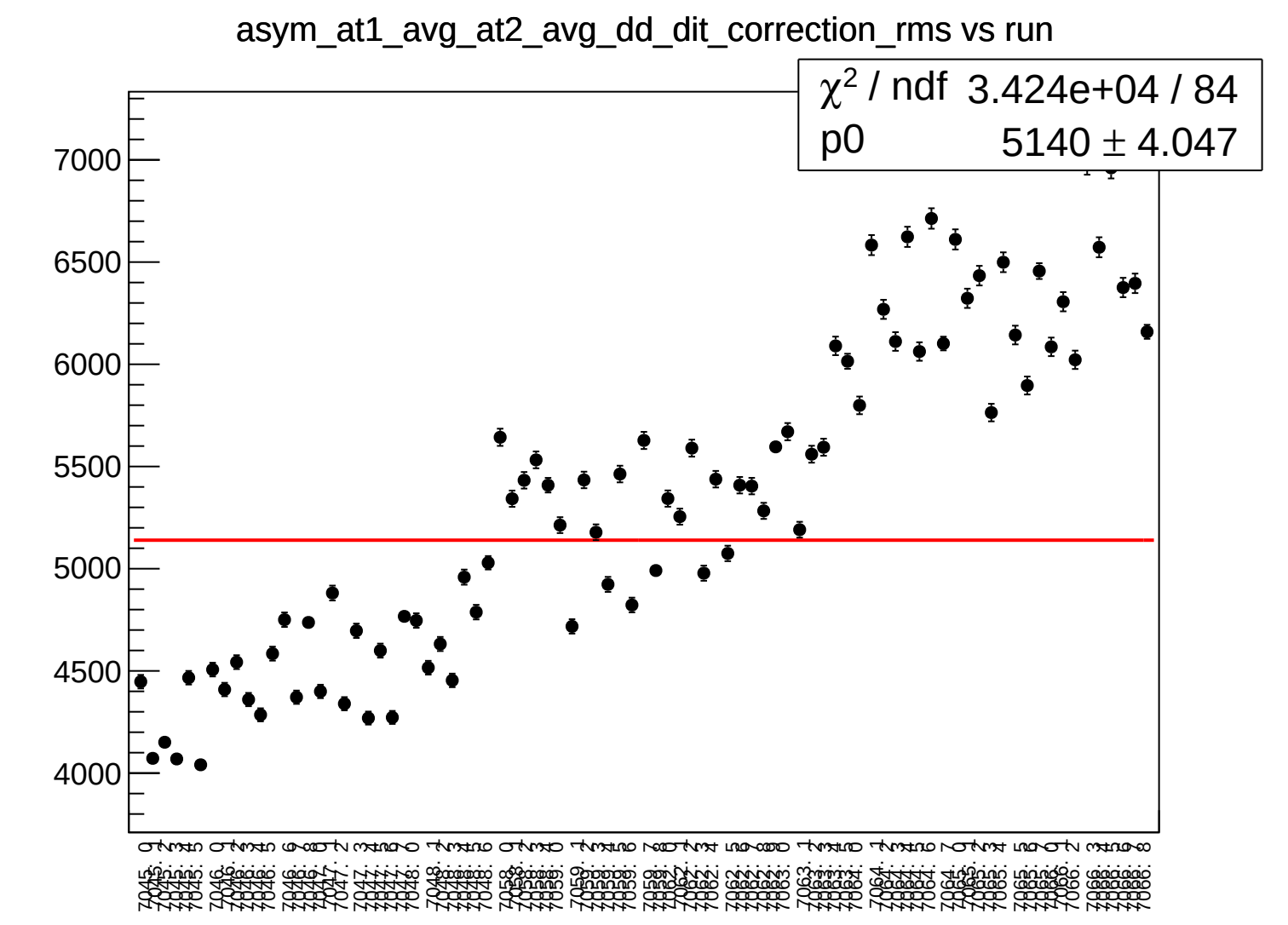

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 65.97 / 84
p0 −2419 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

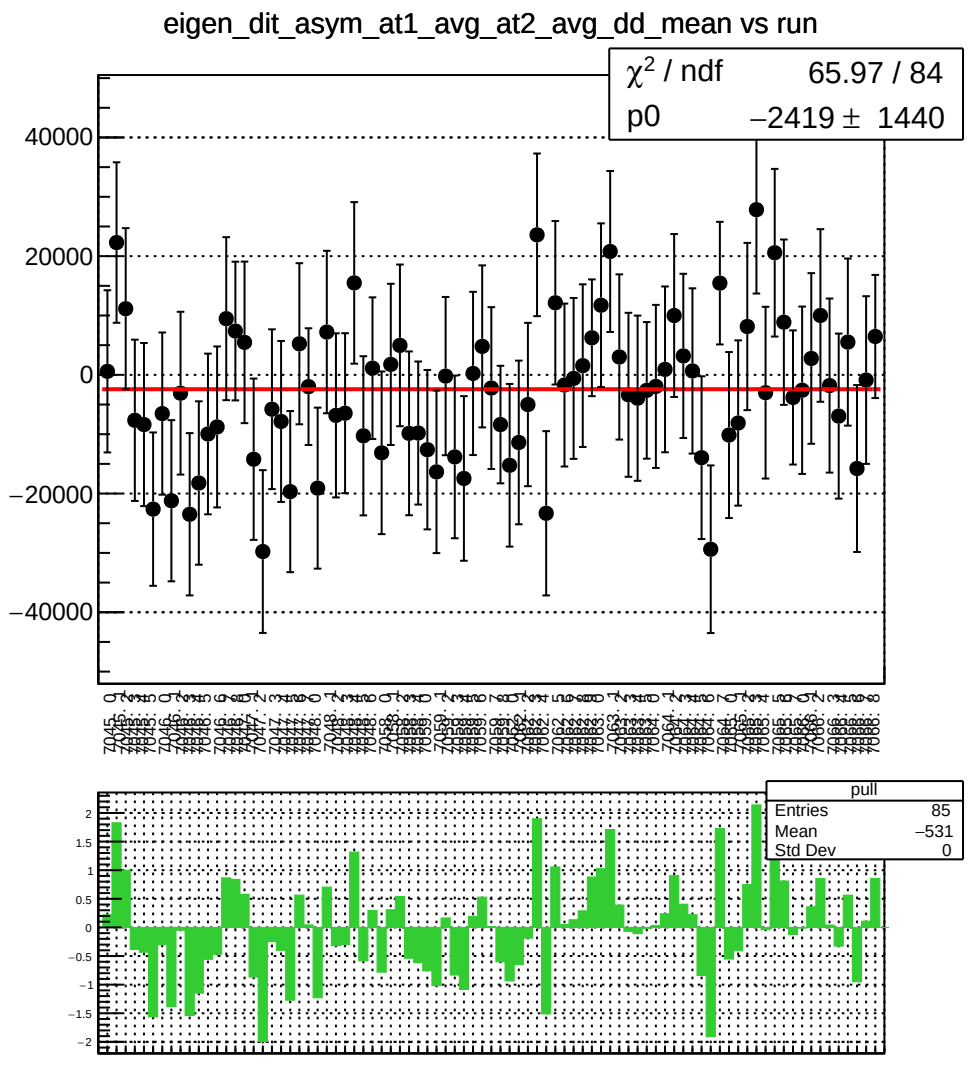

pull1D
Entries 85
Mean −0.009635
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

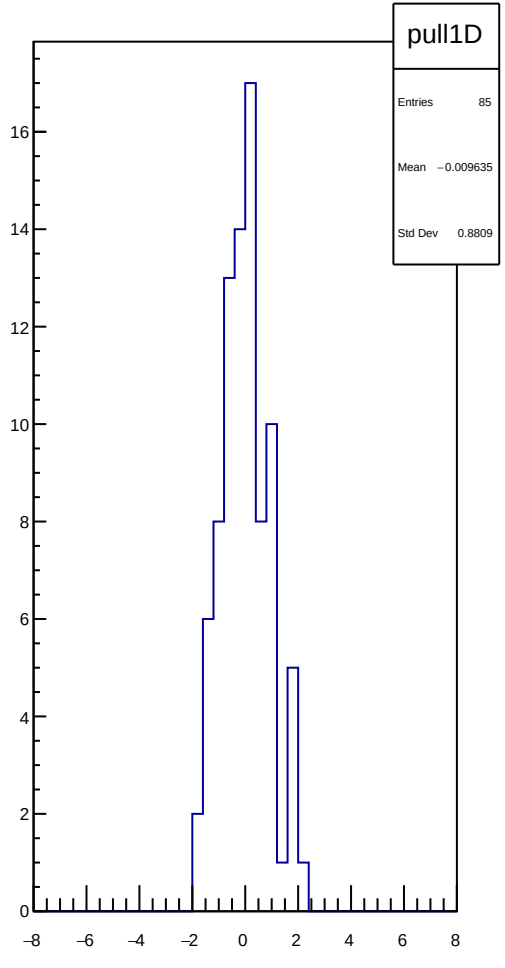

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 488.2 / 84
p0 1307 ± 1.018
1400
1380
1360
1340
1320
1300
1280
1260

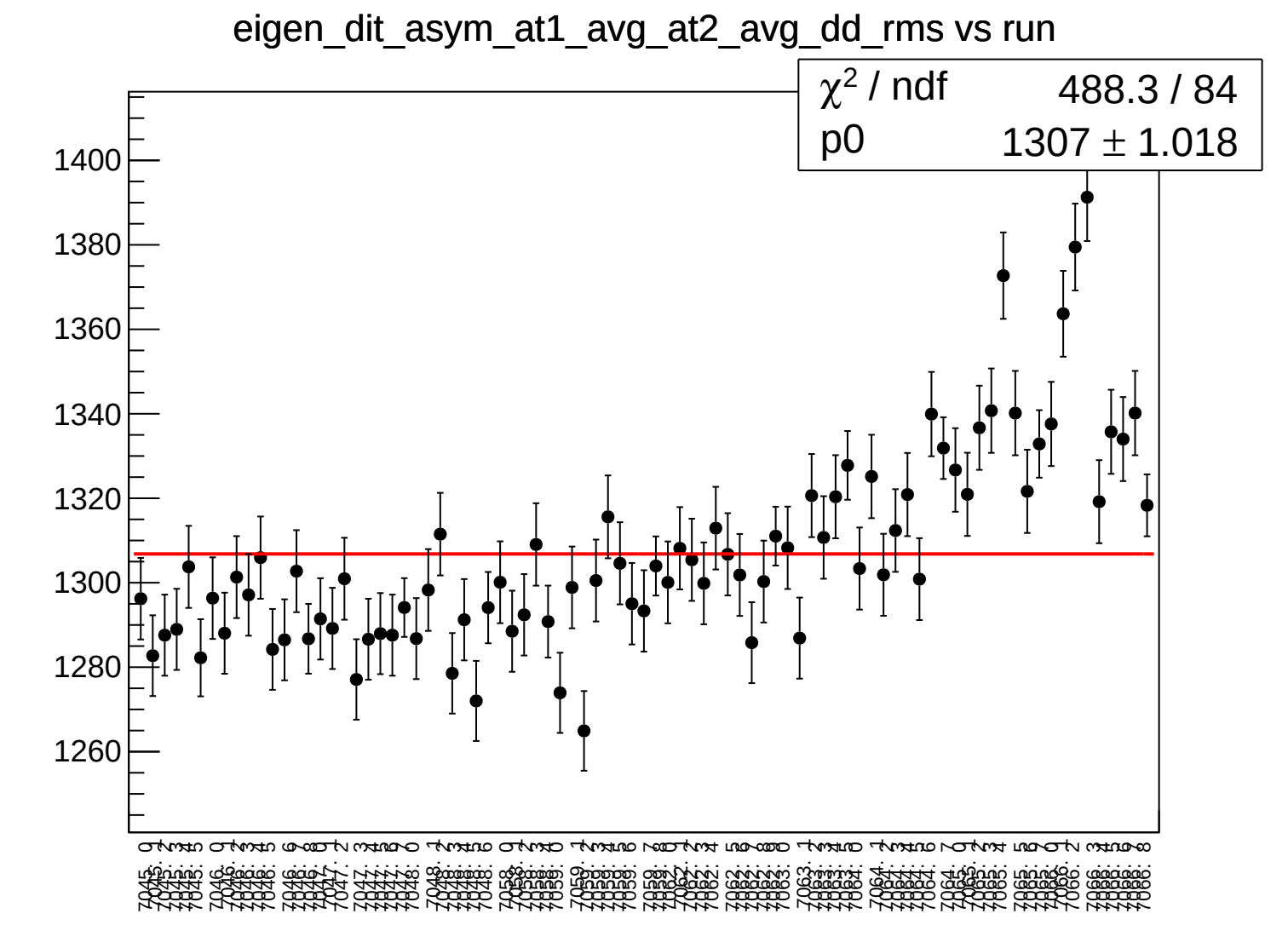

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 84
p0 2791 ± 5723
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 174.1
Std Dev 0
2
1
0
−1
−2

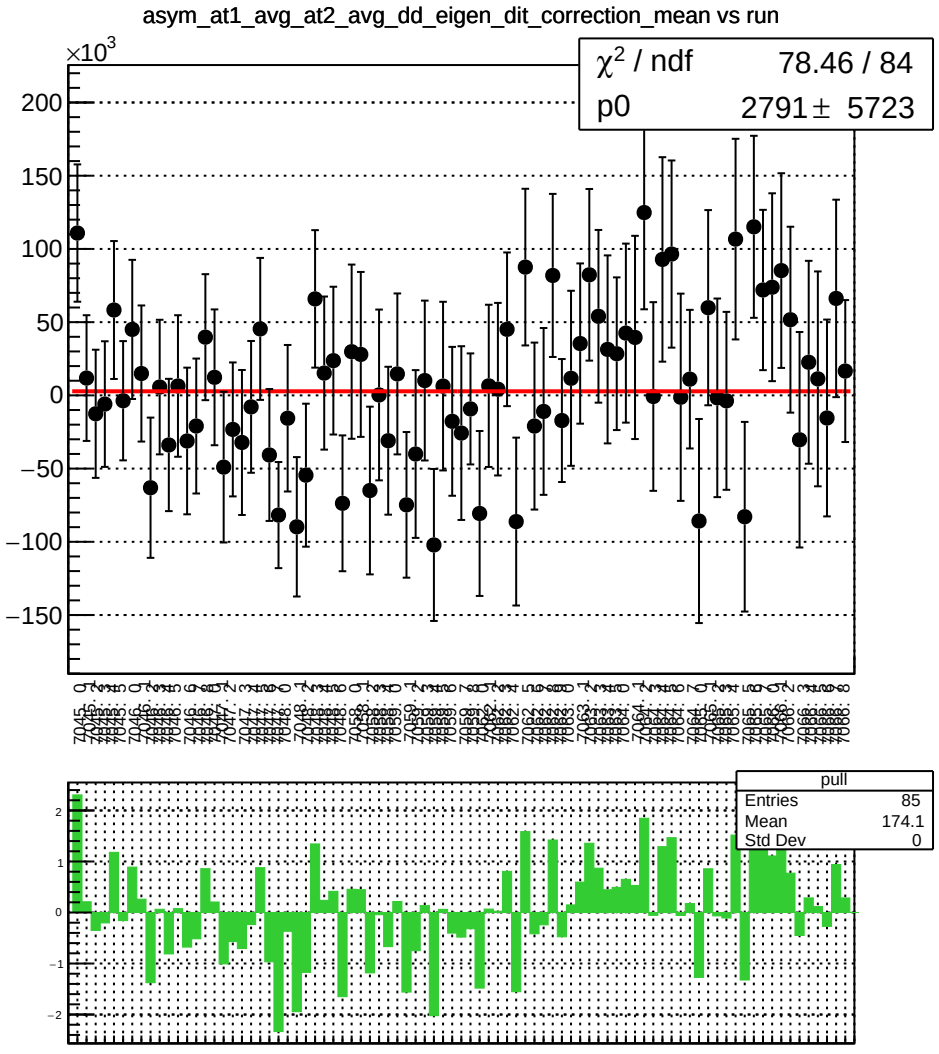

pull1D
Entries 85
Mean 0.04651
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

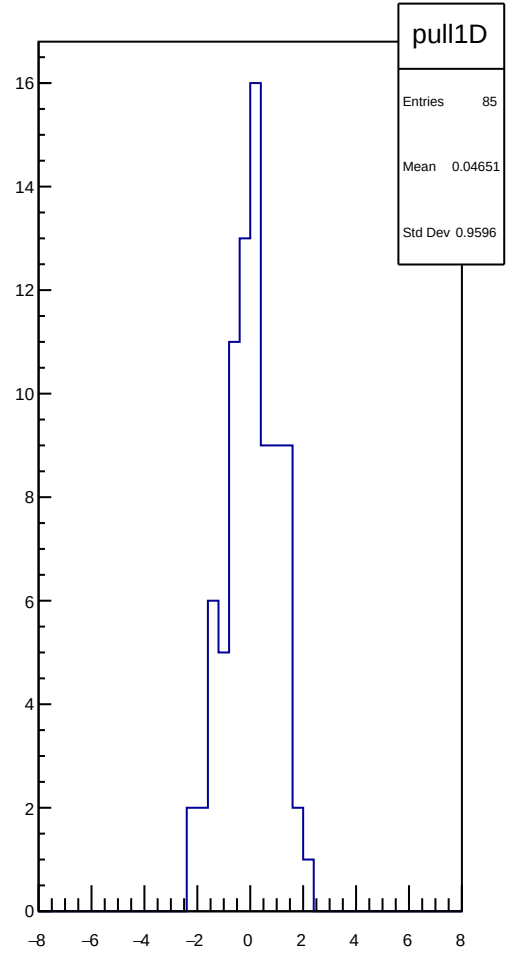

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3.424e+04 / 84
p0 5140 ± 4.047
7000
6500
6000
5500
5000
4500
4000

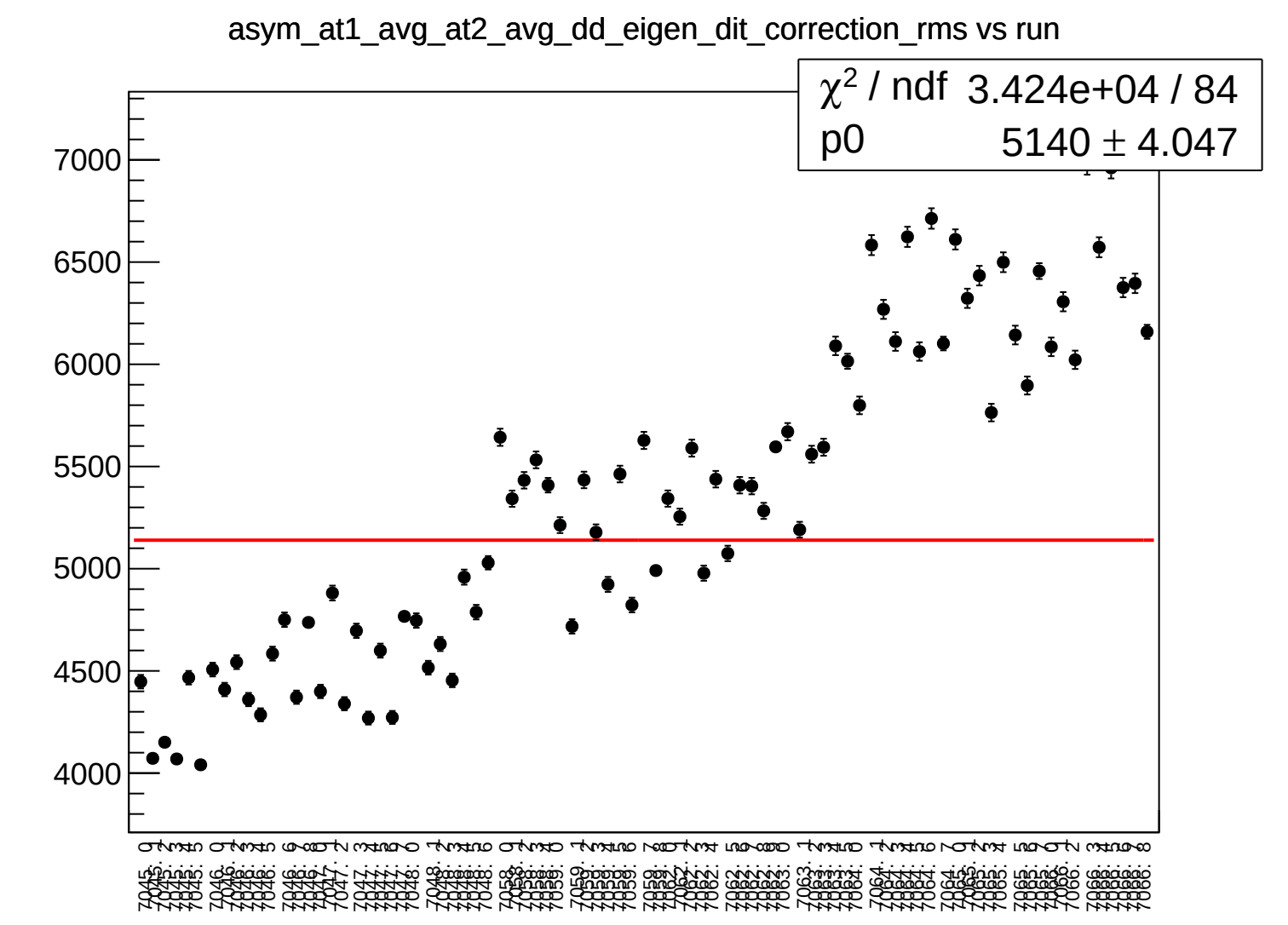

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 65.97 / 84
p0 −2419 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

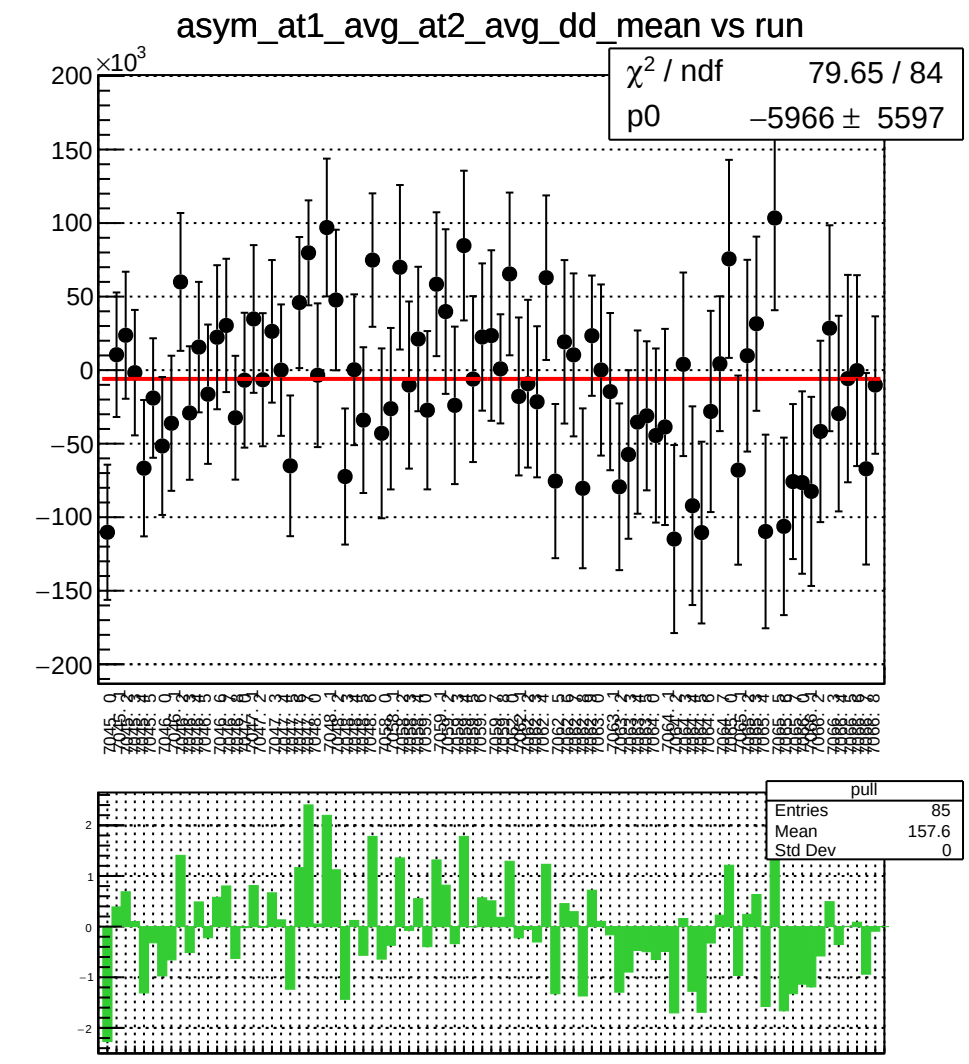

pull1D
Entries 85
Mean −0.009635
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

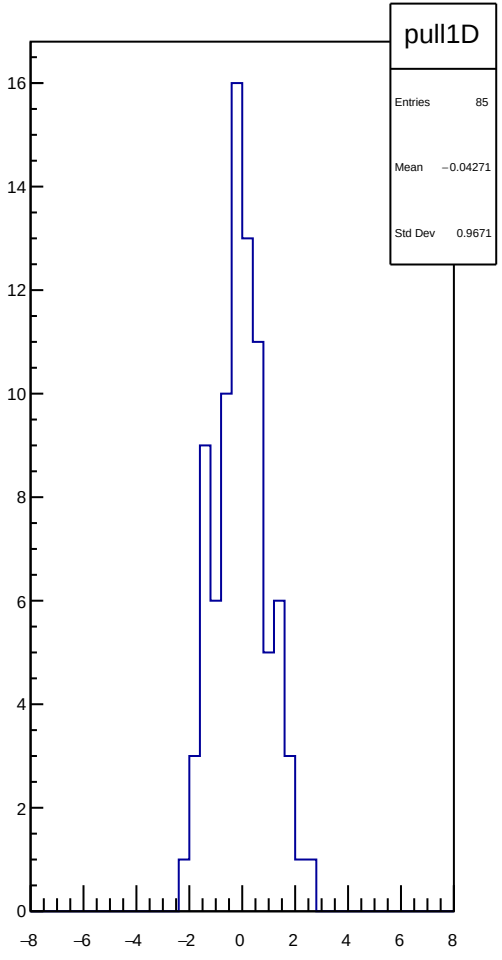

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 488.3 / 84
p0 1307 ± 1.018
1400
1380
1360
1340
1320
1300
1280
1260

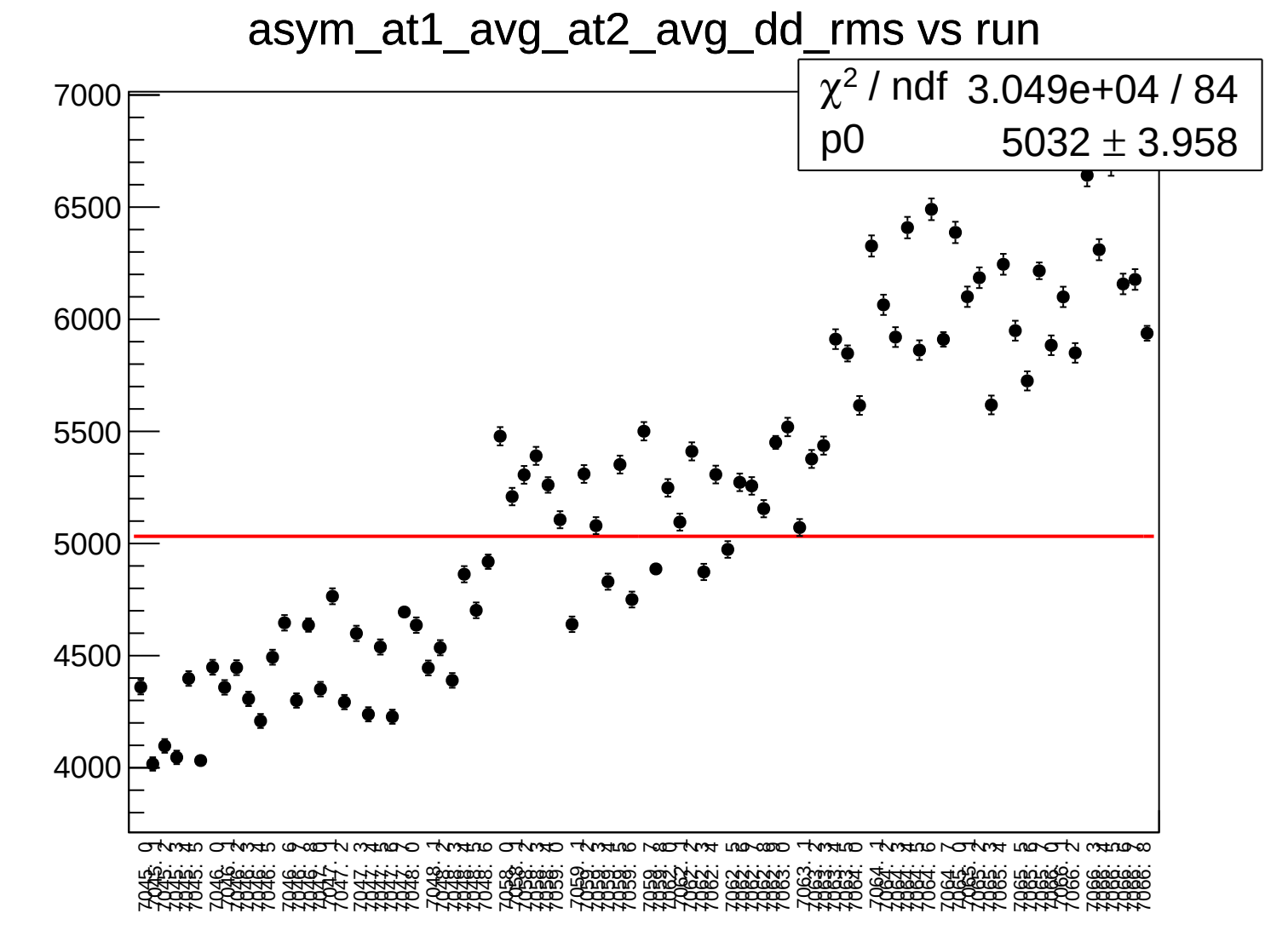

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 84
p0 2791 ± 5723
pull
Entries 85
Mean 174.1
Std Dev 0

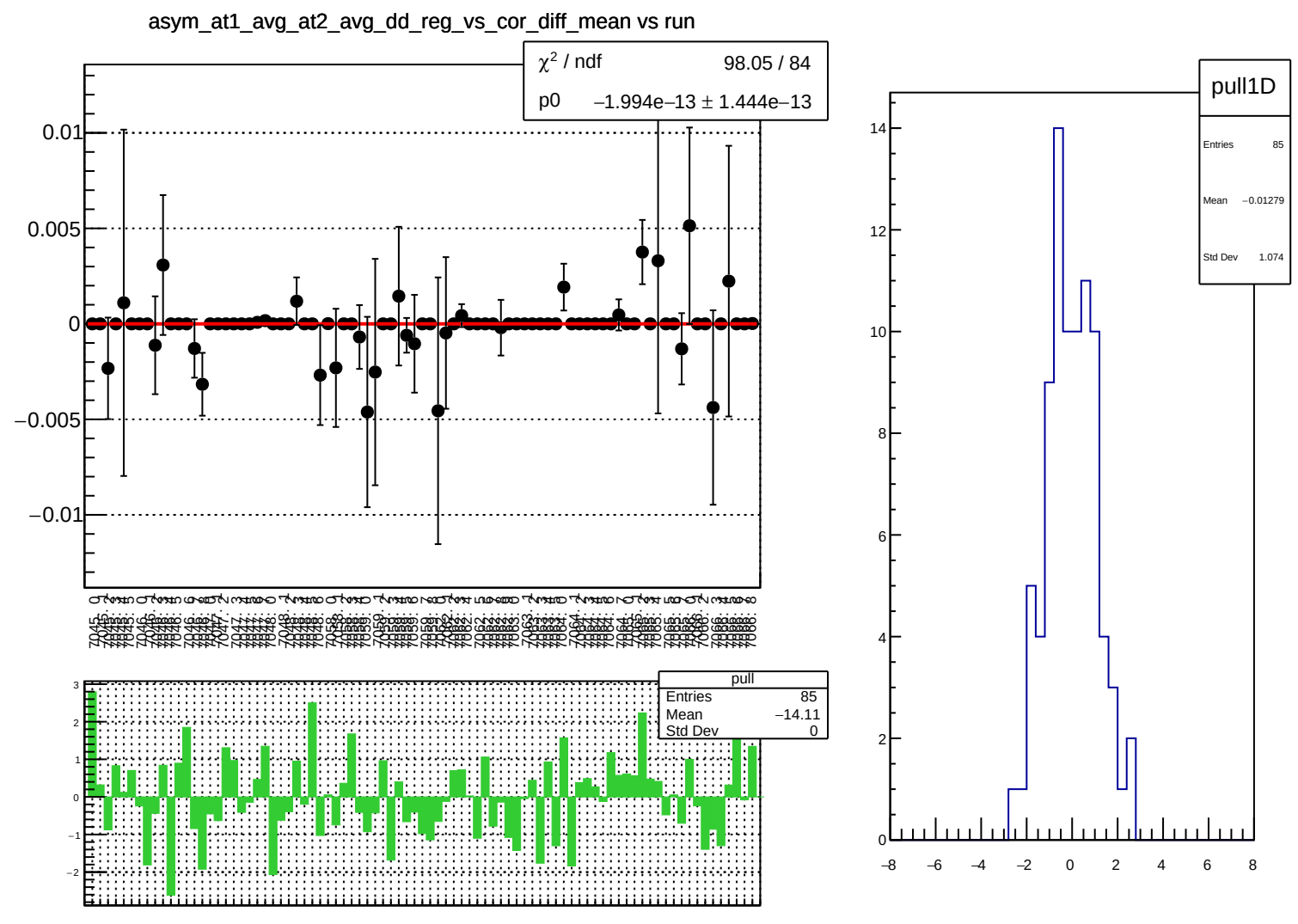

pull1D
Entries 85
Mean 0.04651
Std Dev 0.9596

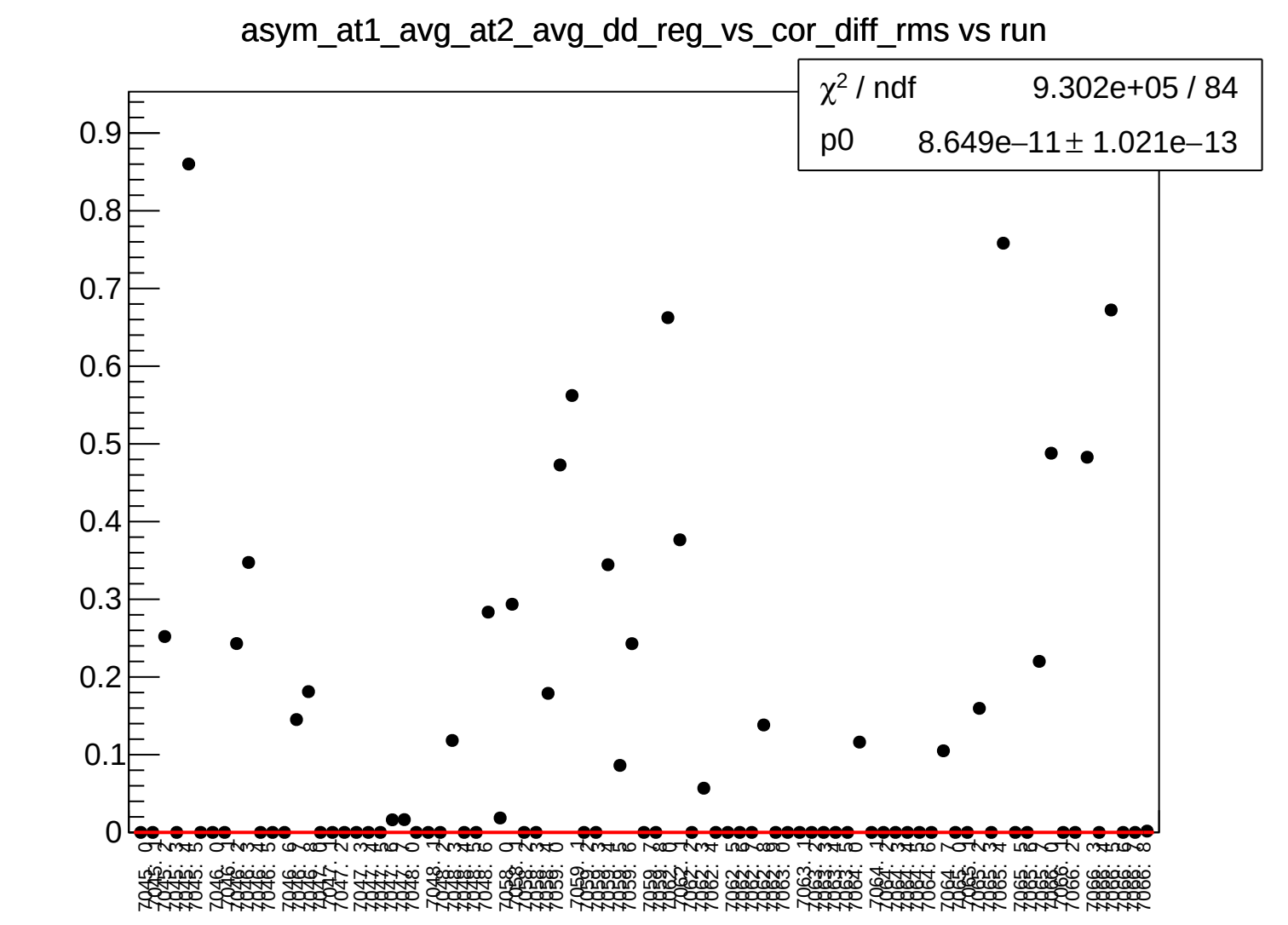

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.424e+04 / 84
p0 5140 ± 4.047
7000
6500
6000
5500
5000
4500
4000

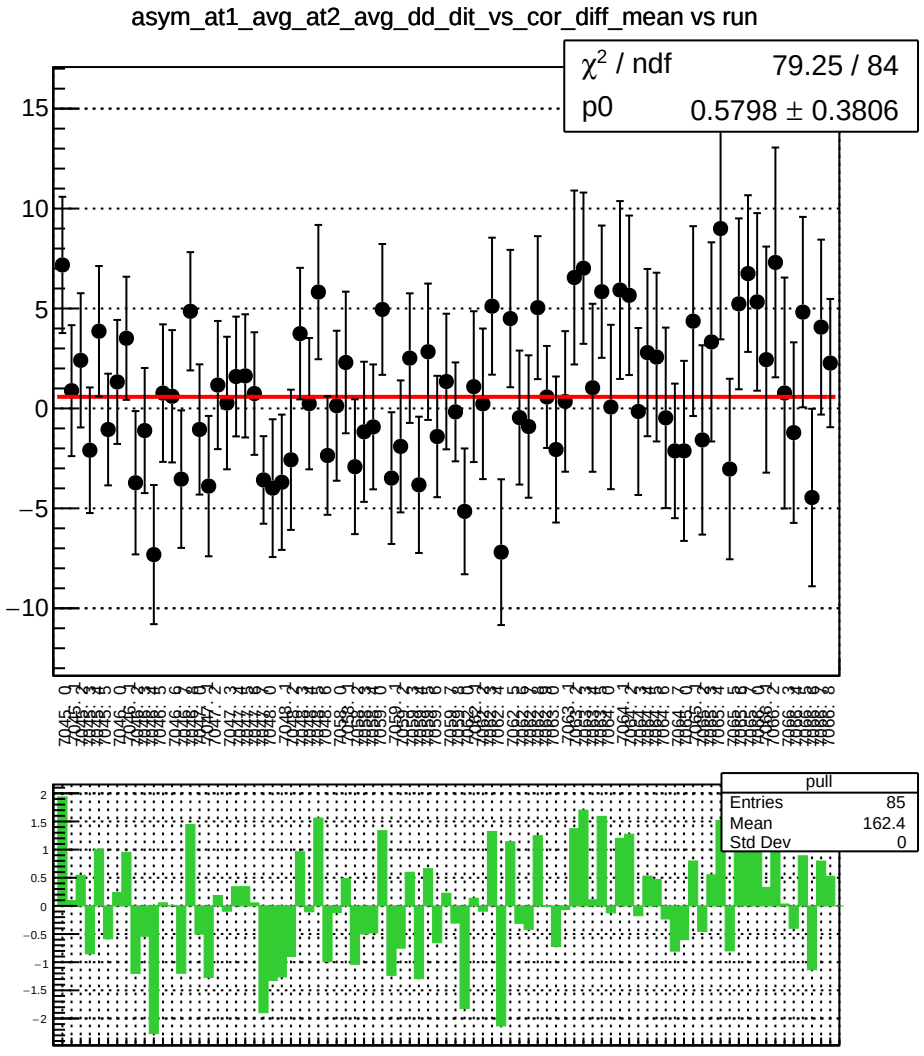

asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.65 / 84
p0 −5966 ± 5597
×10³
pull
Entries 85
Mean 157.6
Std Dev 0

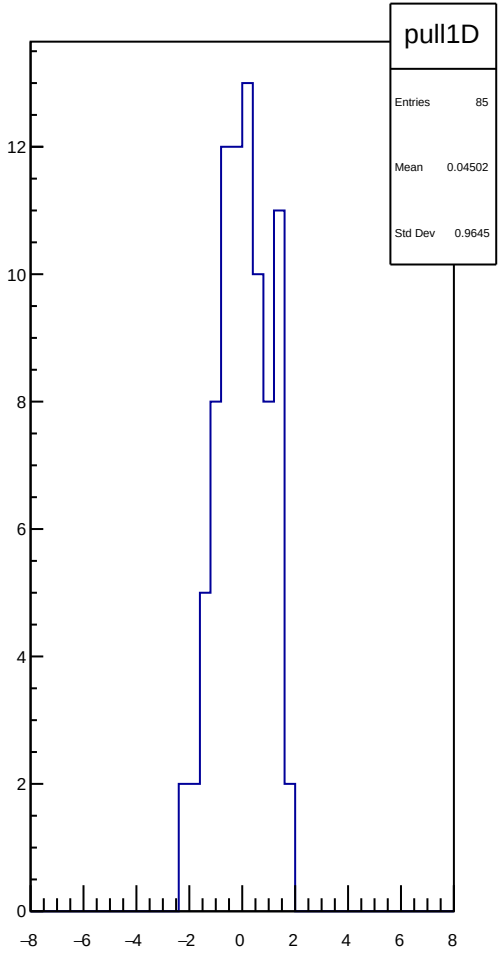

pull1D
Entries 85
Mean −0.04271
Std Dev 0.9671

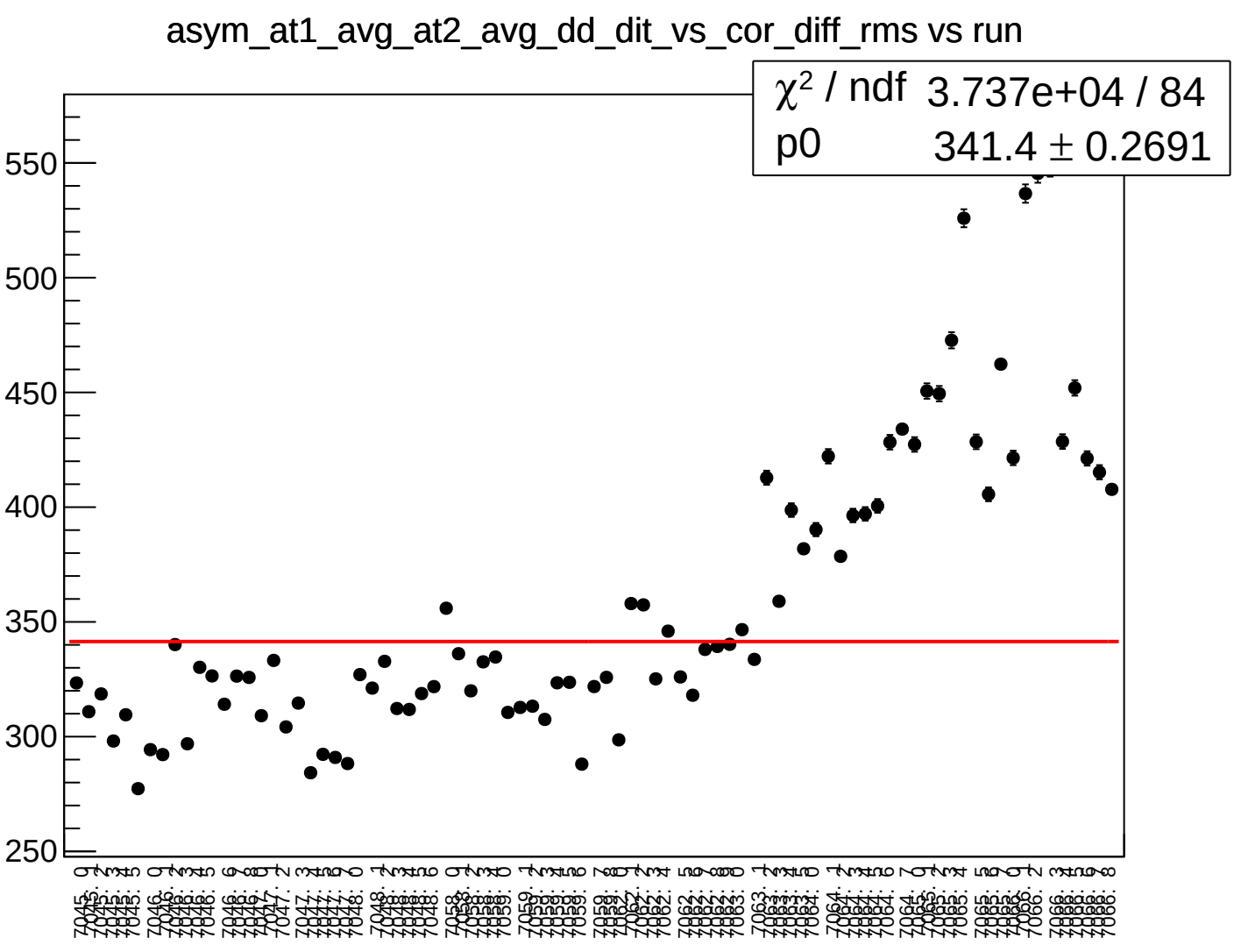

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 3.049e+04 / 84
p0 5032 ± 3.958
7000
6500
6000
5500
5000
4500
4000

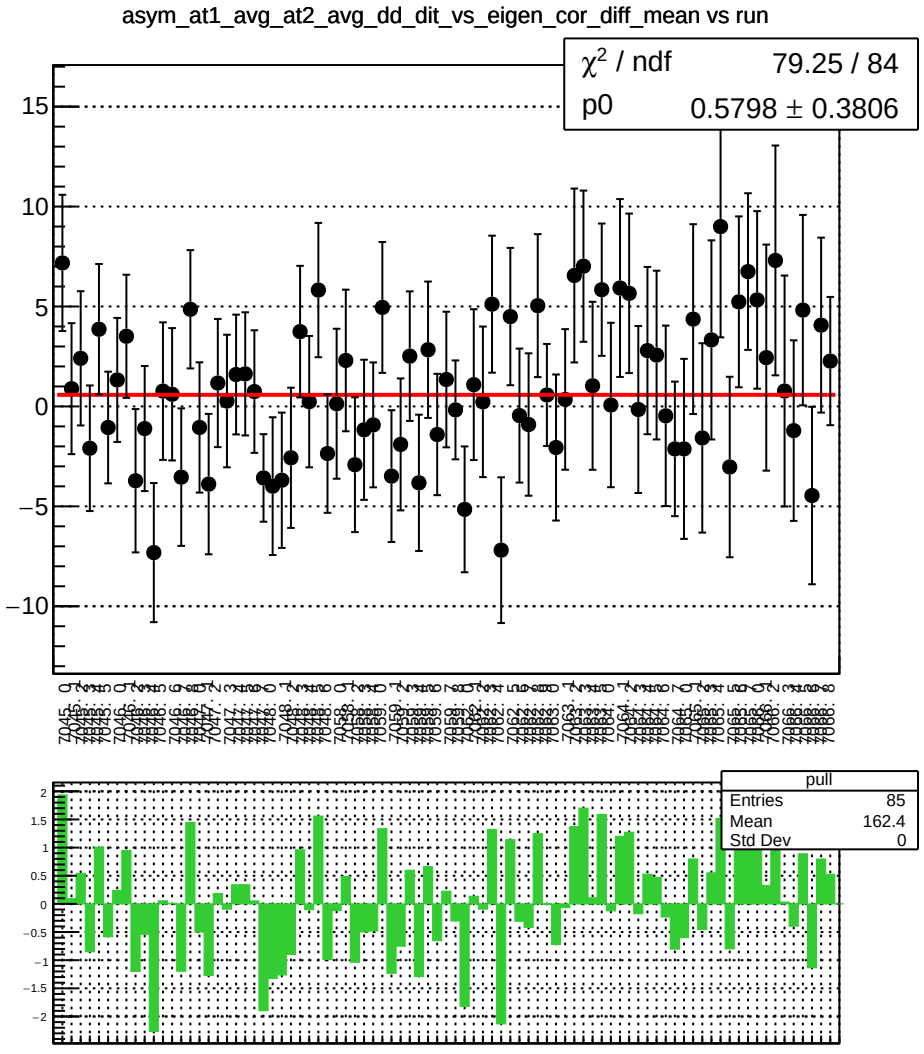

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 84
p0 −1.994e−13 ± 1.444e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean −14.11
Std Dev 0
pull1D
Entries 85
Mean −0.01279
Std Dev 1.074

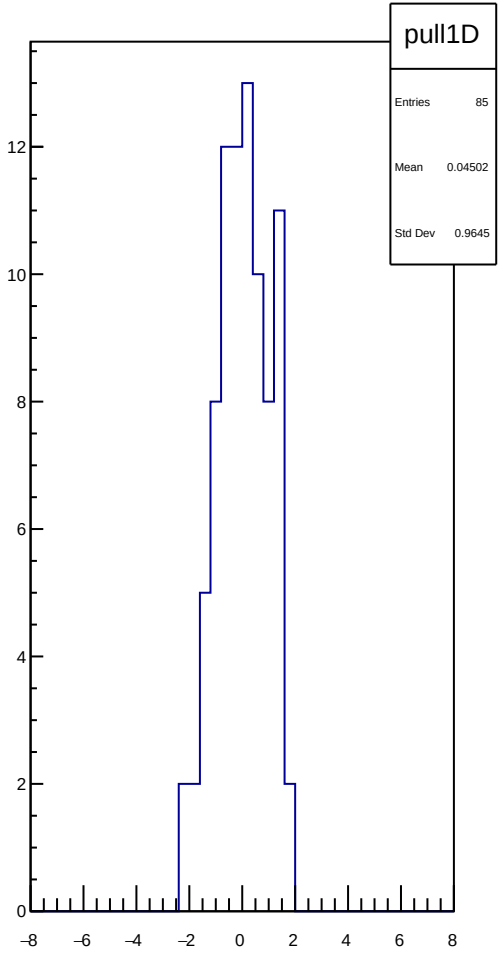

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.302e+05 / 84
p0 8.649e−11 ± 1.021e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

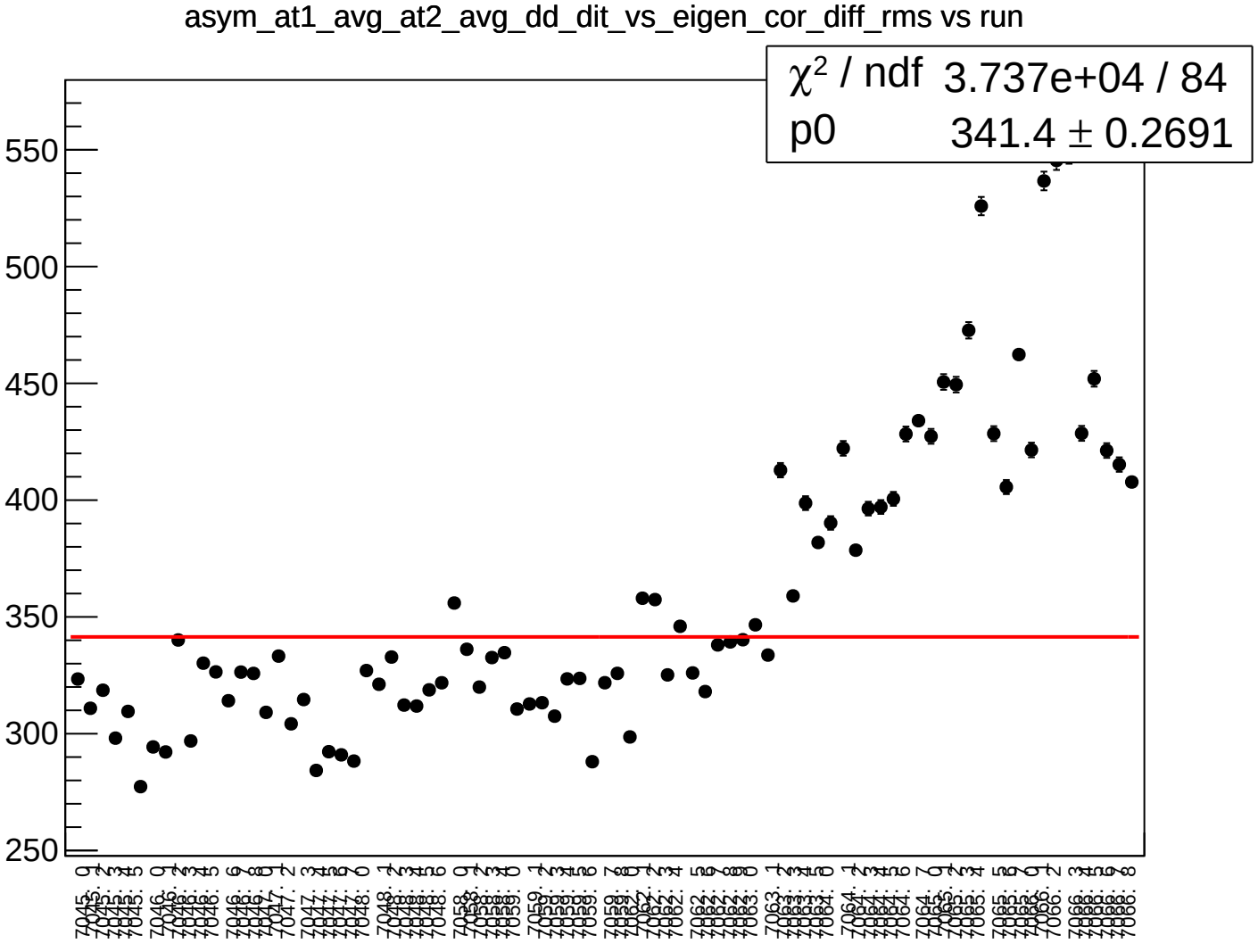

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

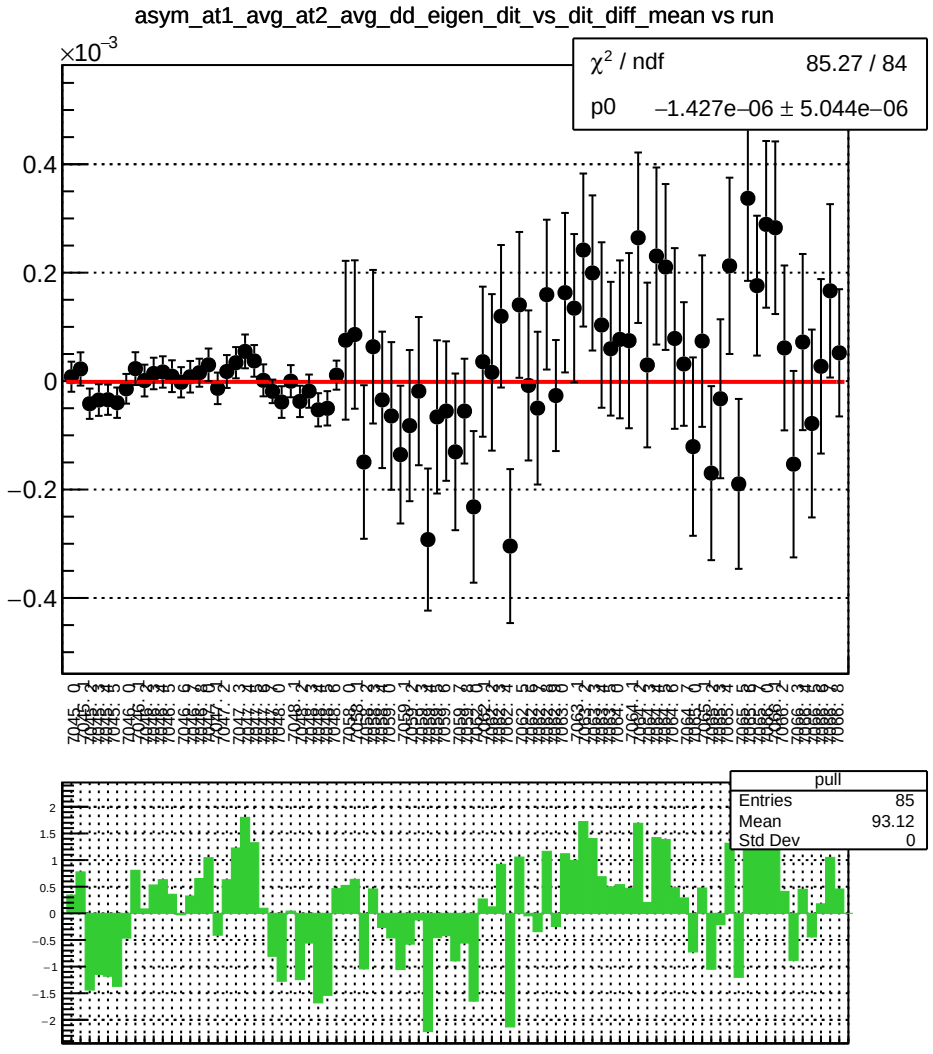

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

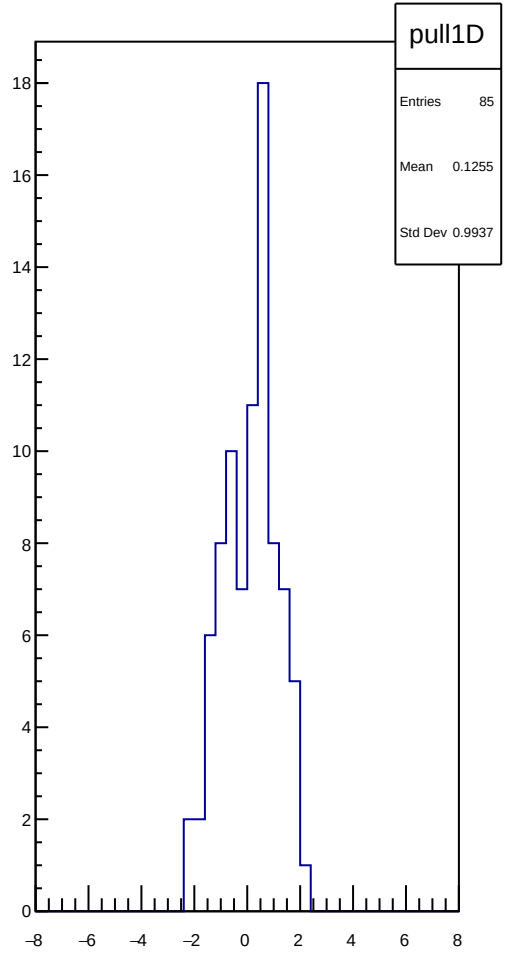

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.737e+04 / 84
p0 341.4 ± 0.2691
550
500
450
400
350
300
250

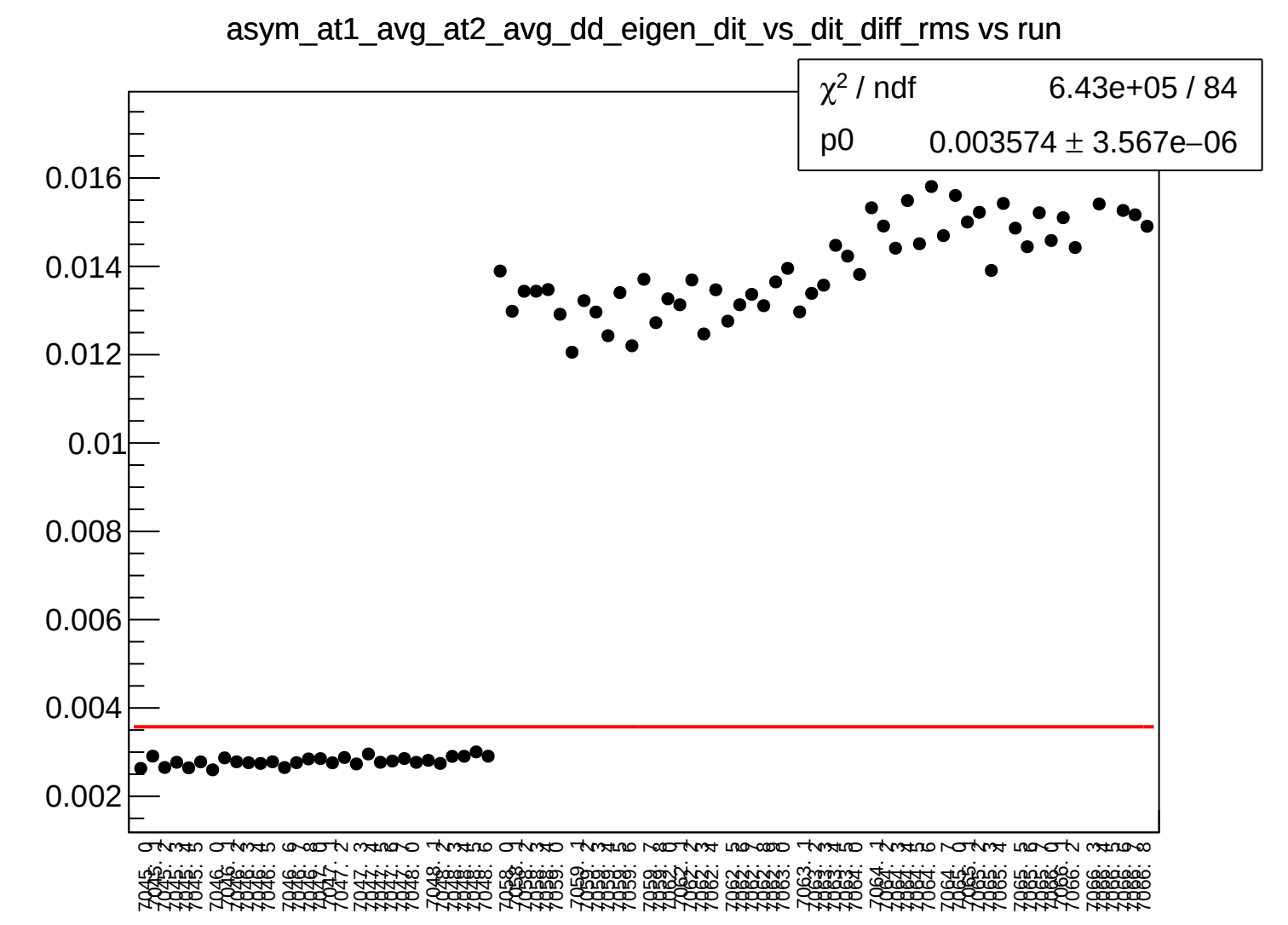

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

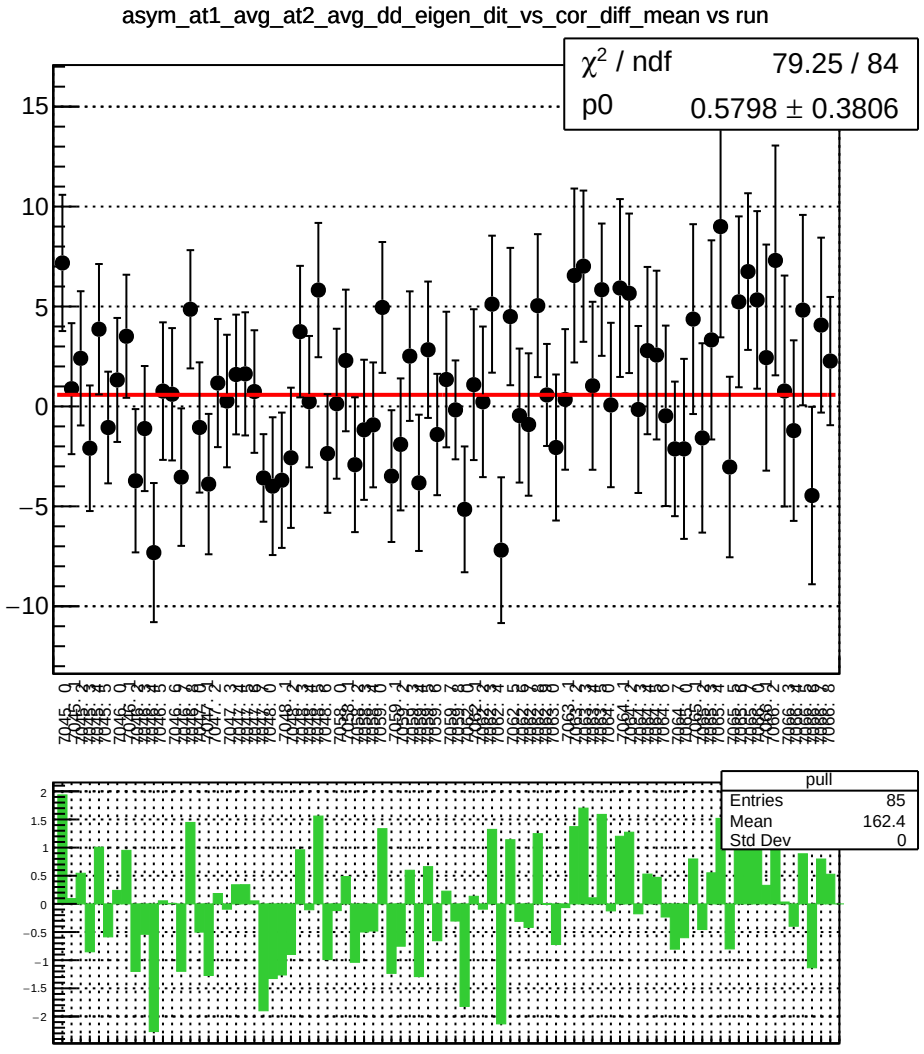

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

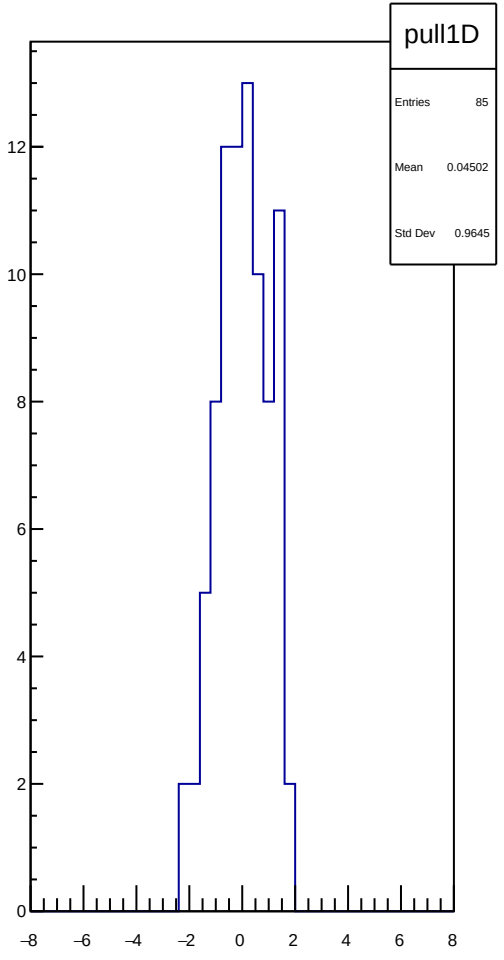

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.737e+04 / 84
p0 341.4 ± 0.2691
550
500
450
400
350
300
250

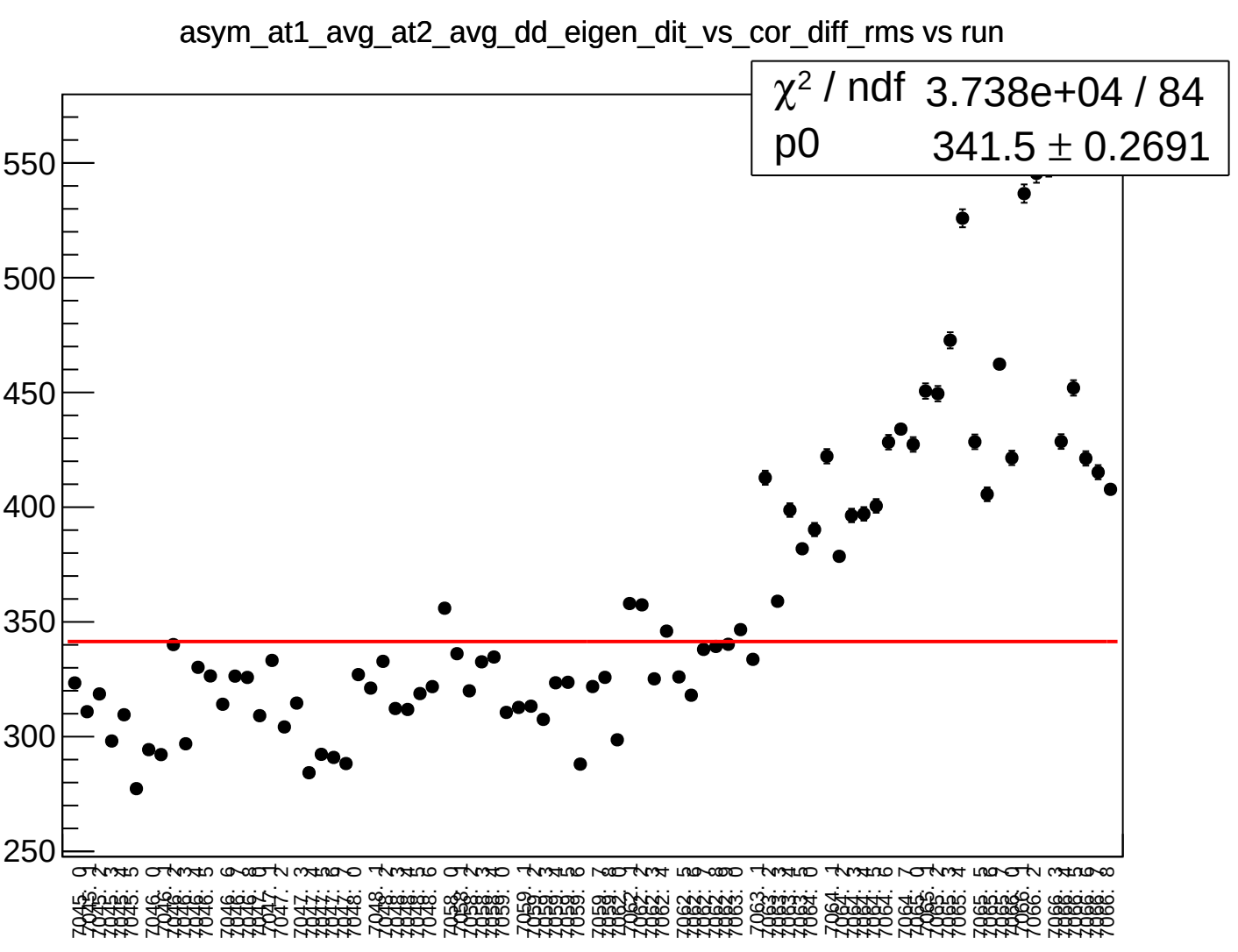

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.27 / 84
p0 −1.427e−06 ± 5.044e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 93.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

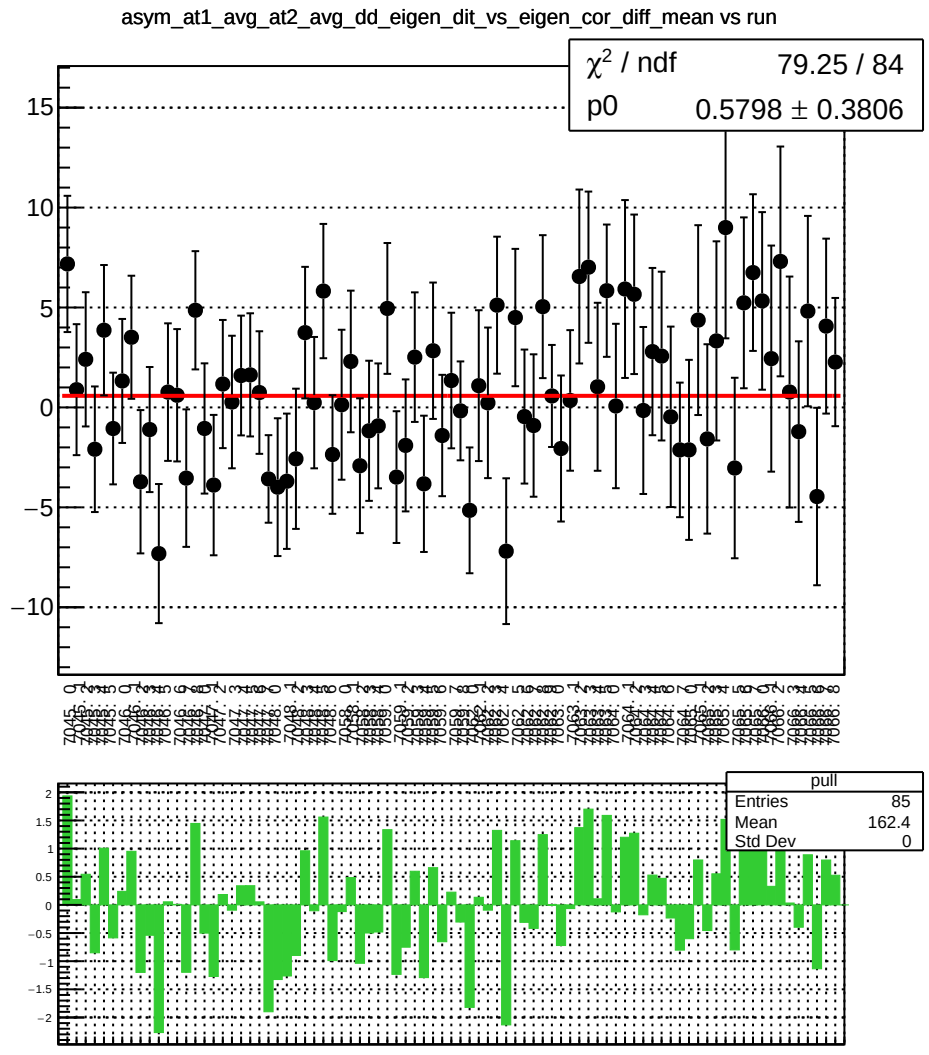

pull1D
Entries 85
Mean 0.1255
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

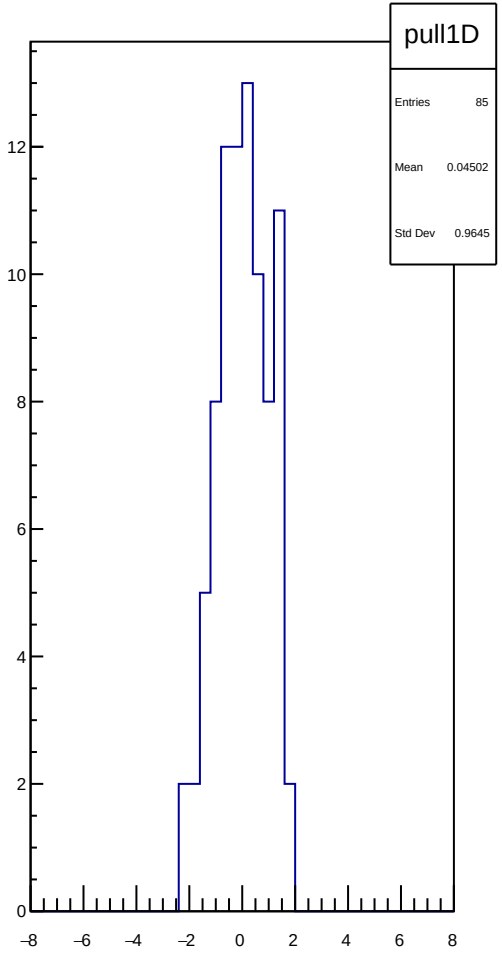

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.43e+05 / 84
p0 0.003574 ± 3.567e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

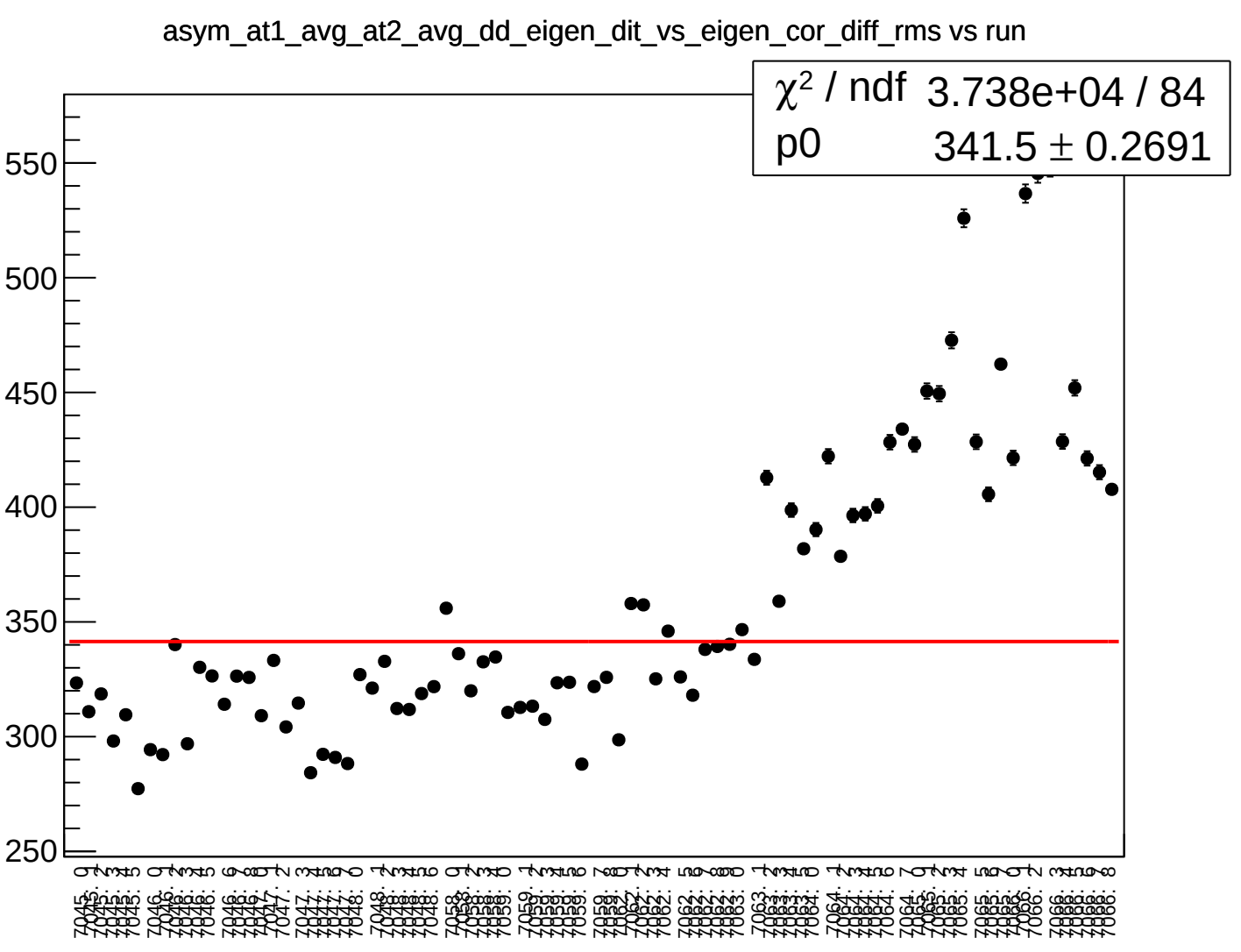

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

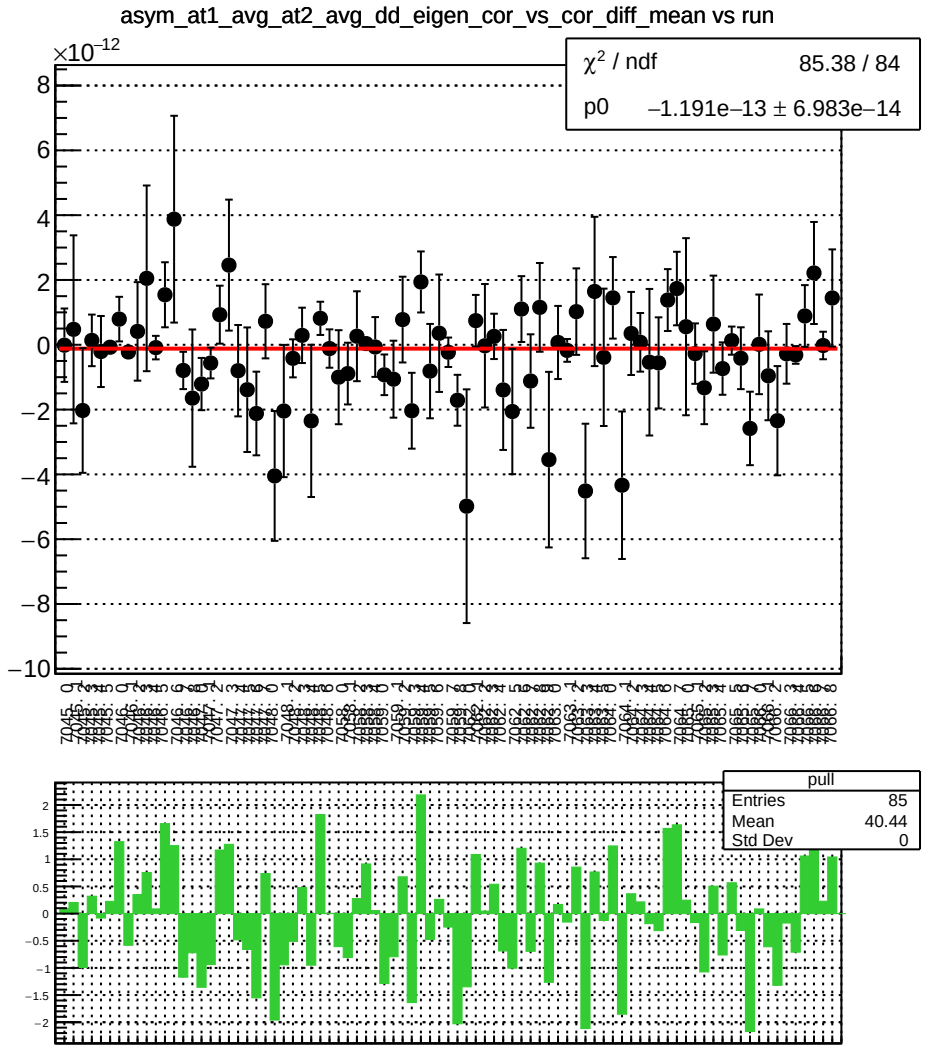

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

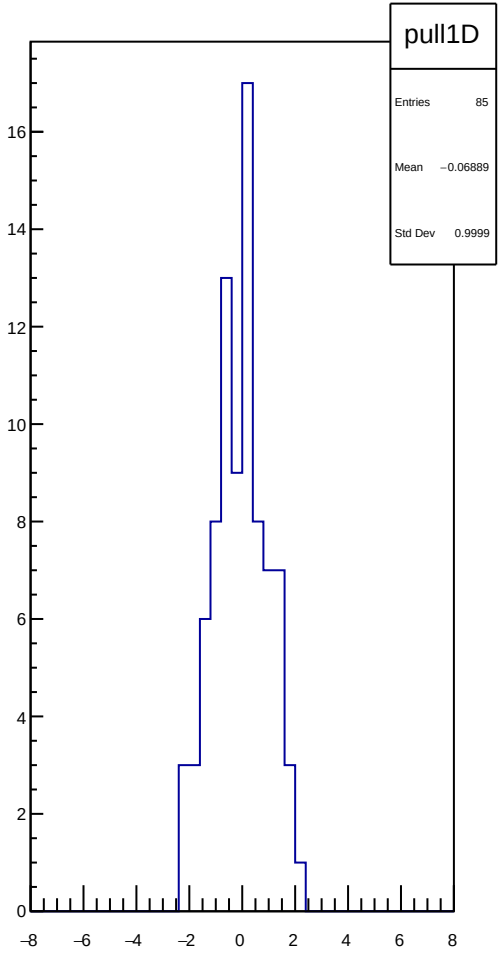

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.738e+04 / 84
p0 341.5 ± 0.2691
550
500
450
400
350
300
250

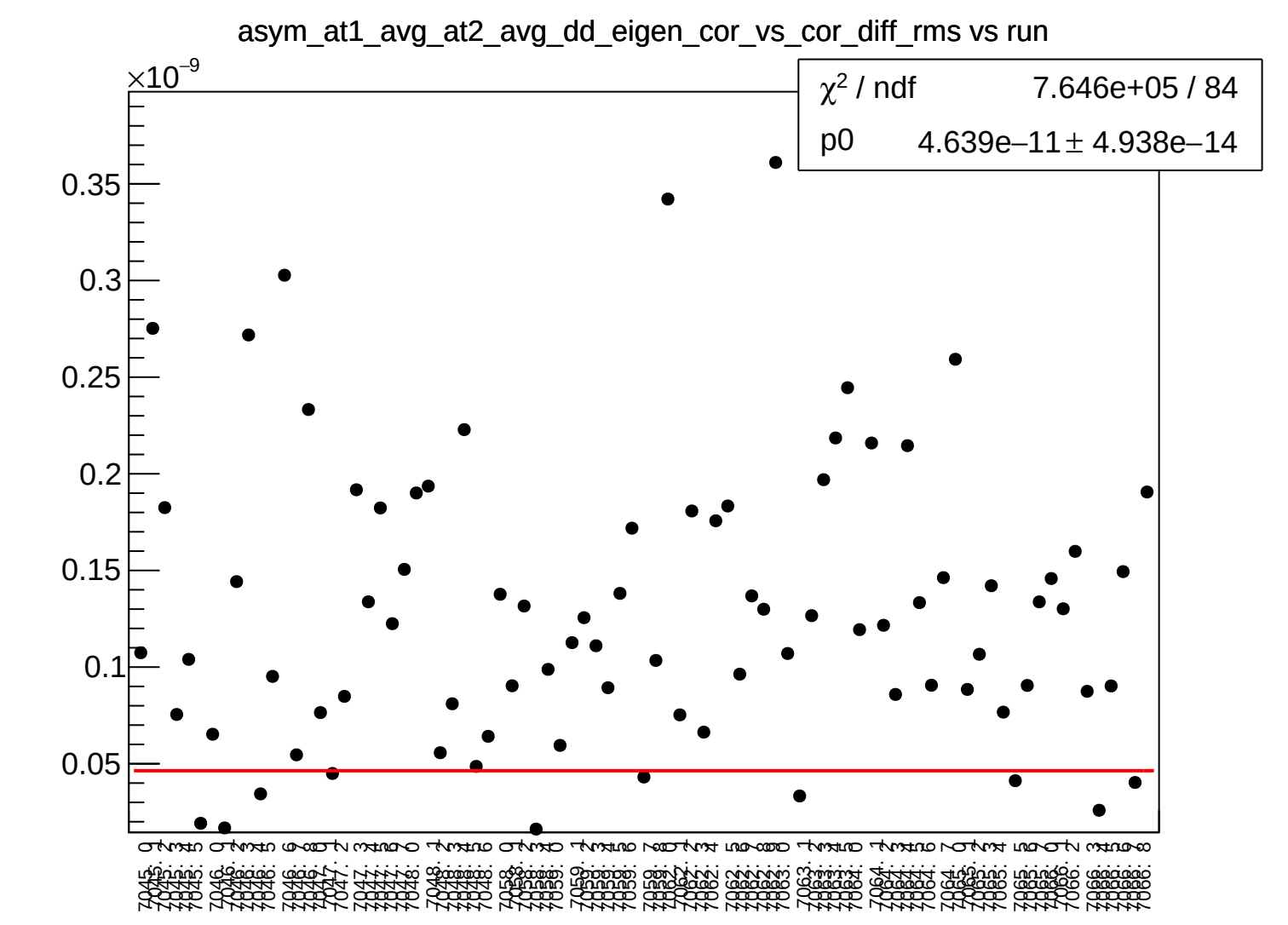

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

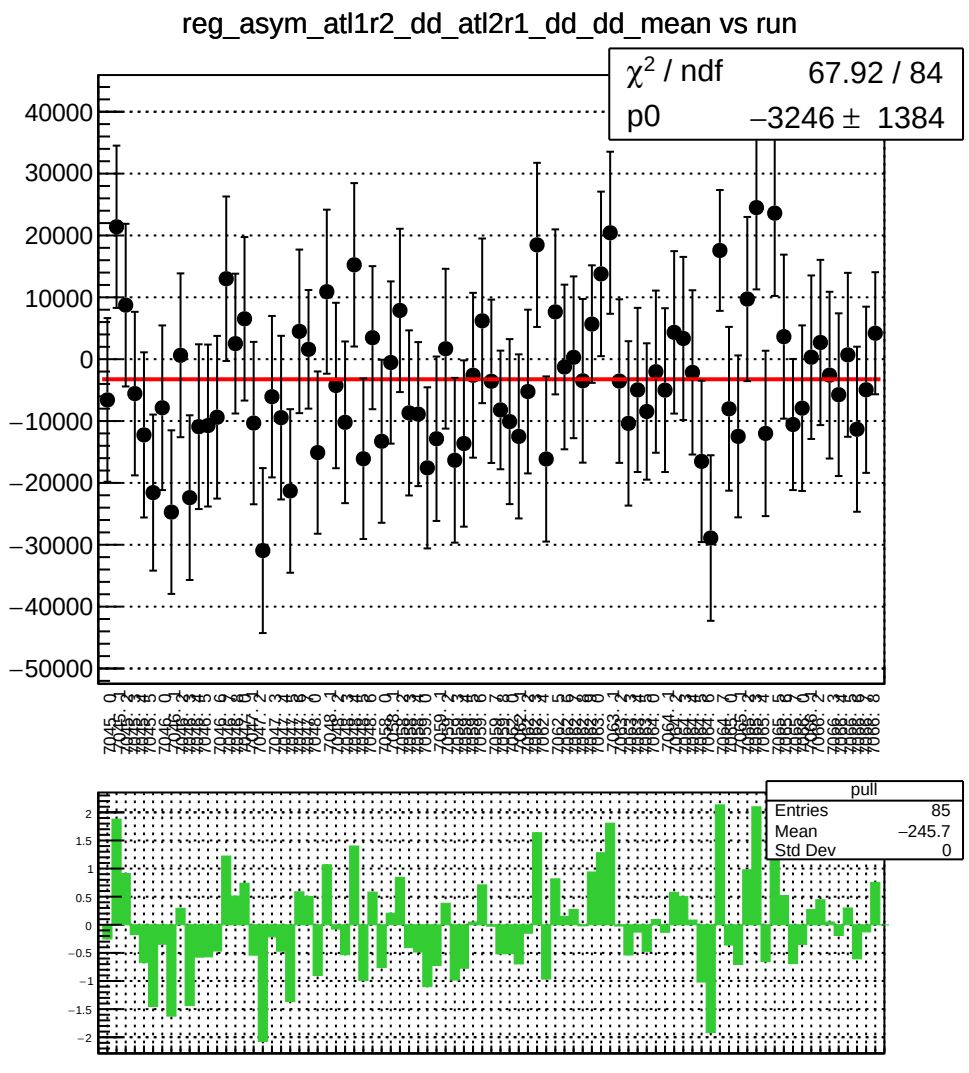

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

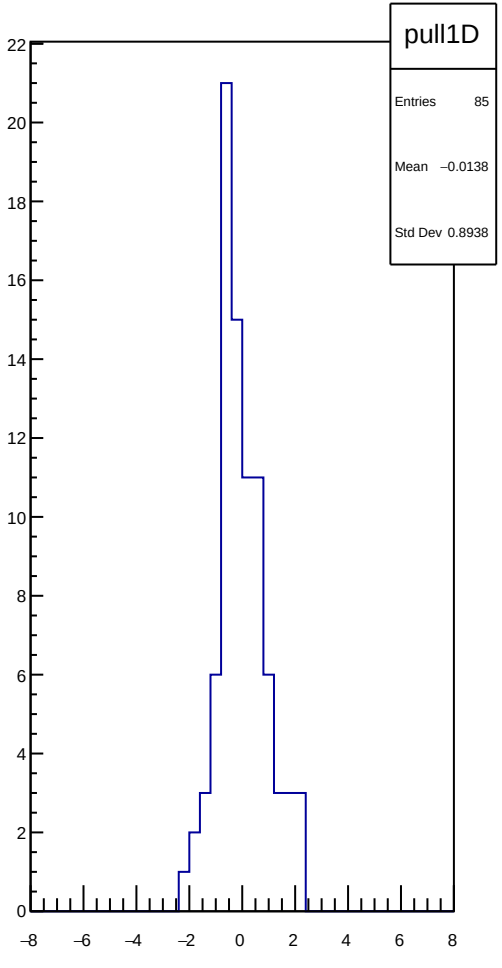

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.738e+04 / 84
p0 341.5 ± 0.2691
550
500
450
400
350
300
250

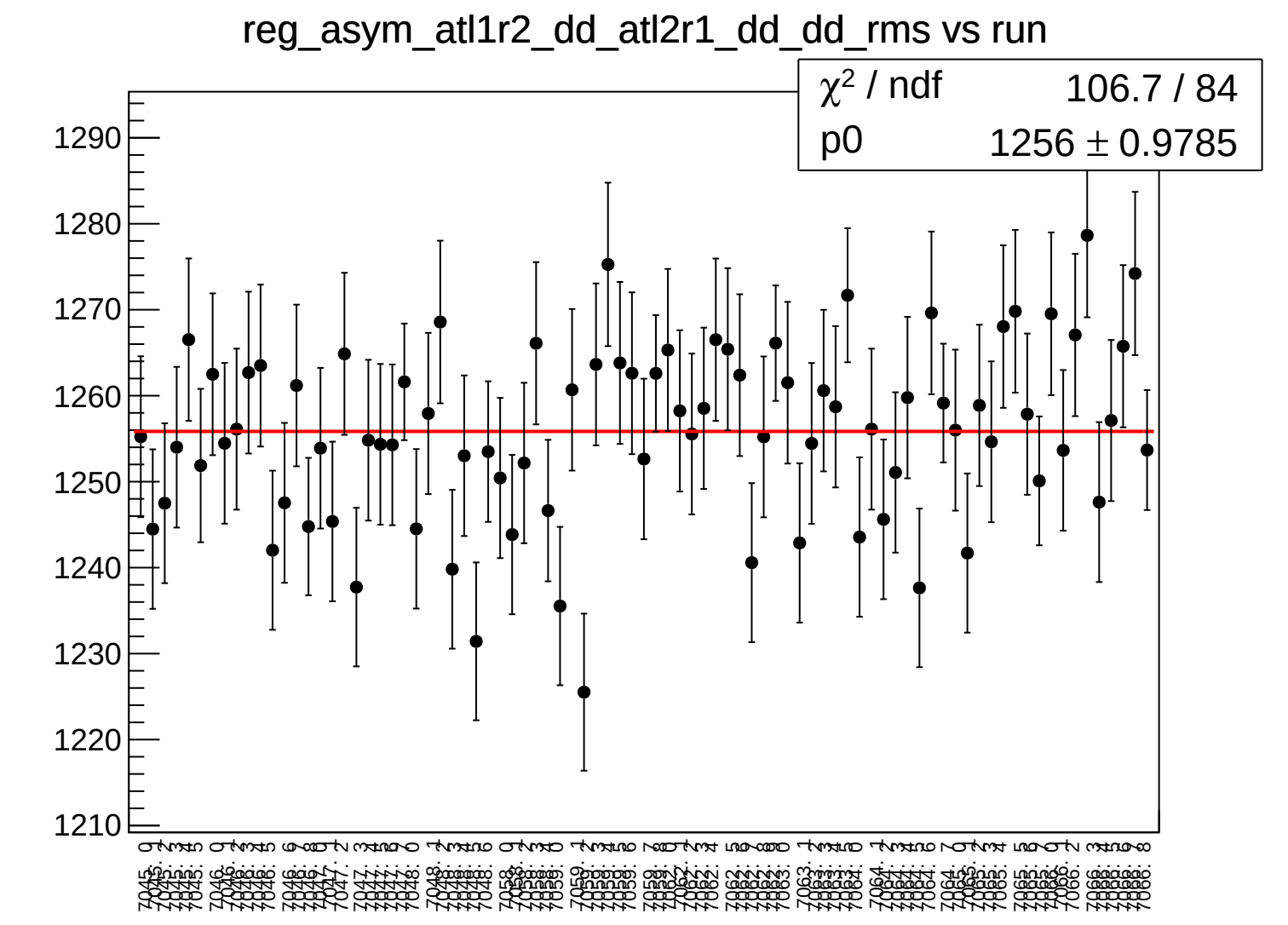

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 85.38 / 84
p0 −1.191e−13 ± 6.983e−14
pull
Entries 85
Mean 40.44
Std Dev 0

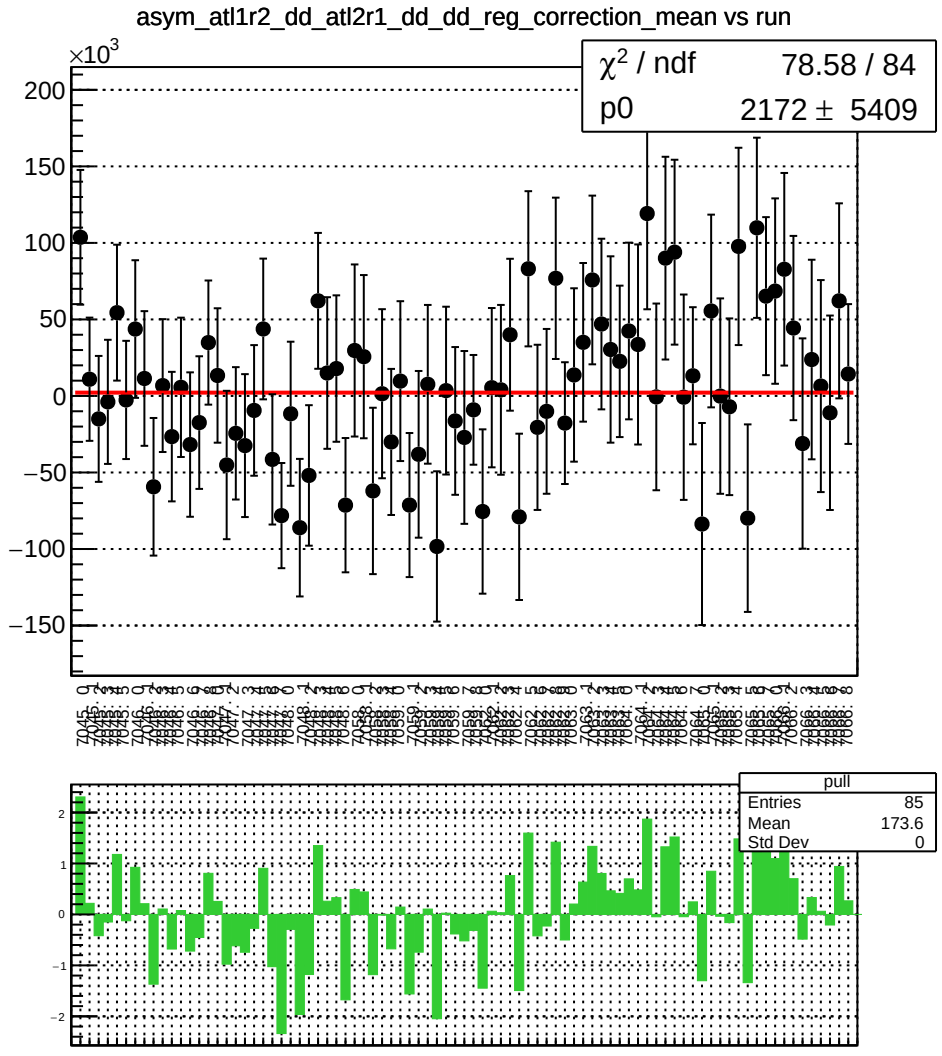

pull1D
Entries 85
Mean −0.06889
Std Dev 0.9999

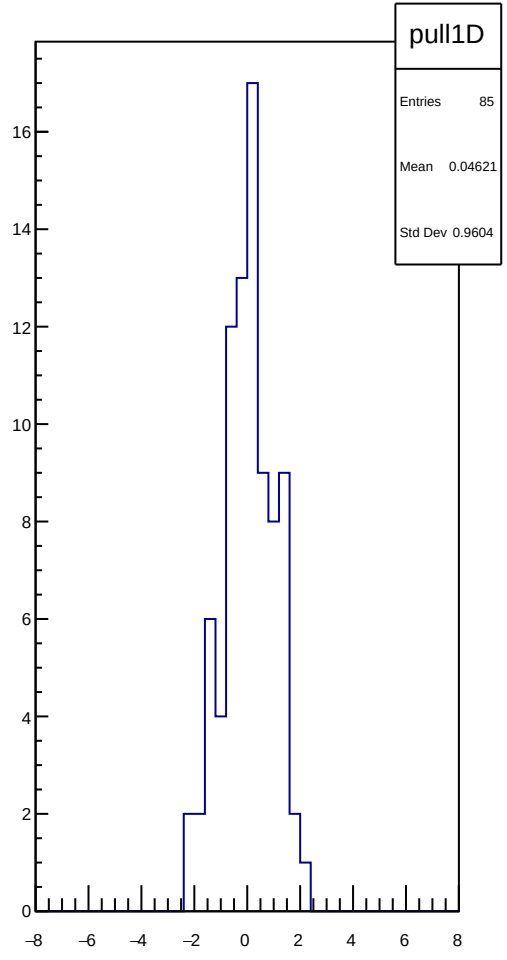

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.646e+05 / 84
p0 4.639e−11 ± 4.938e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

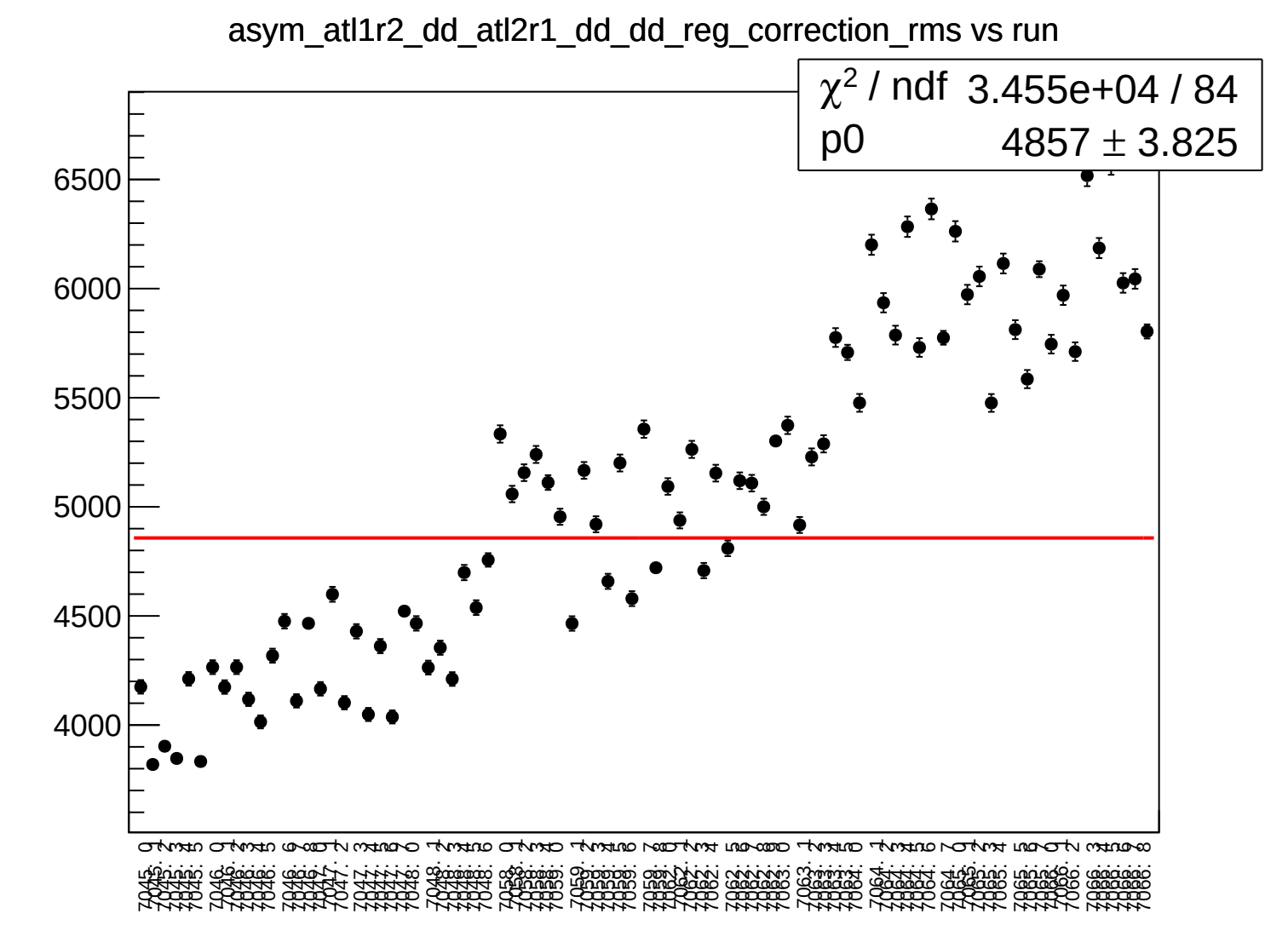

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.7
Std Dev 0

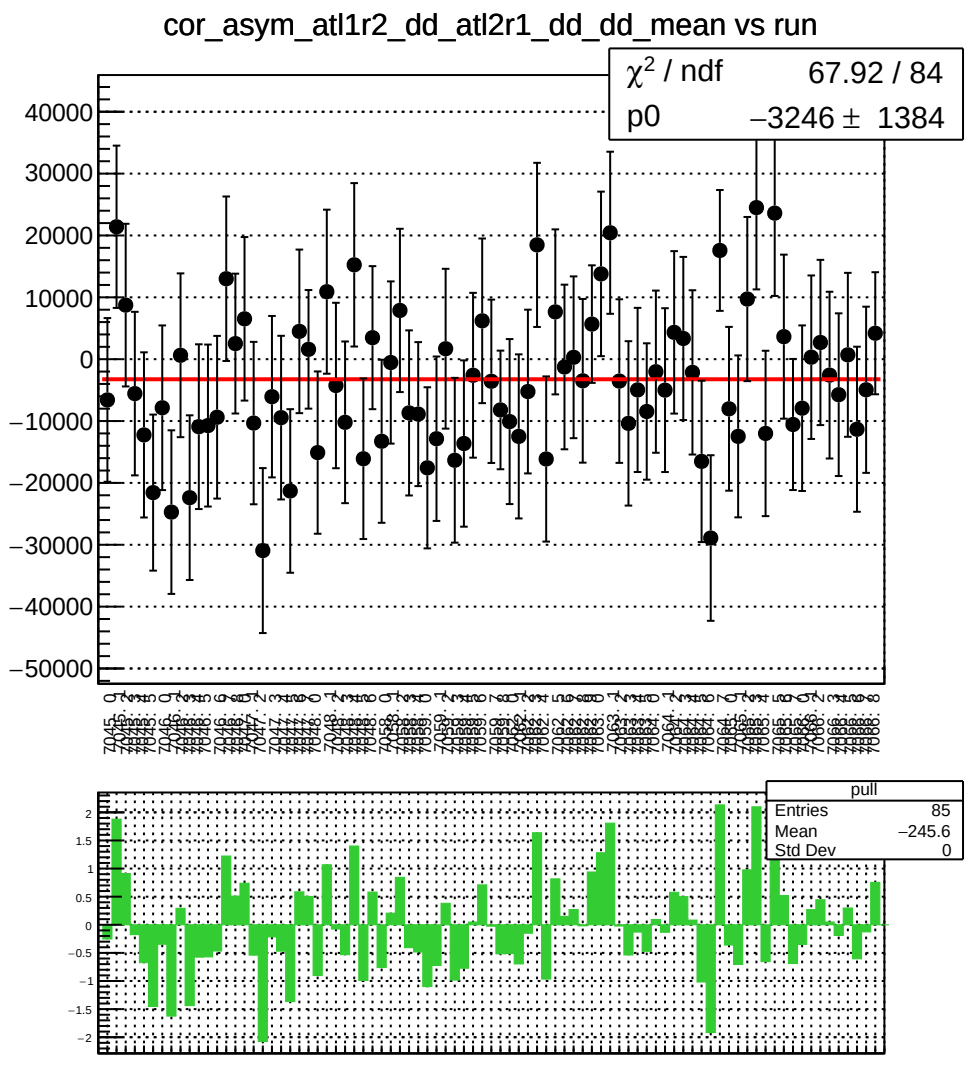

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

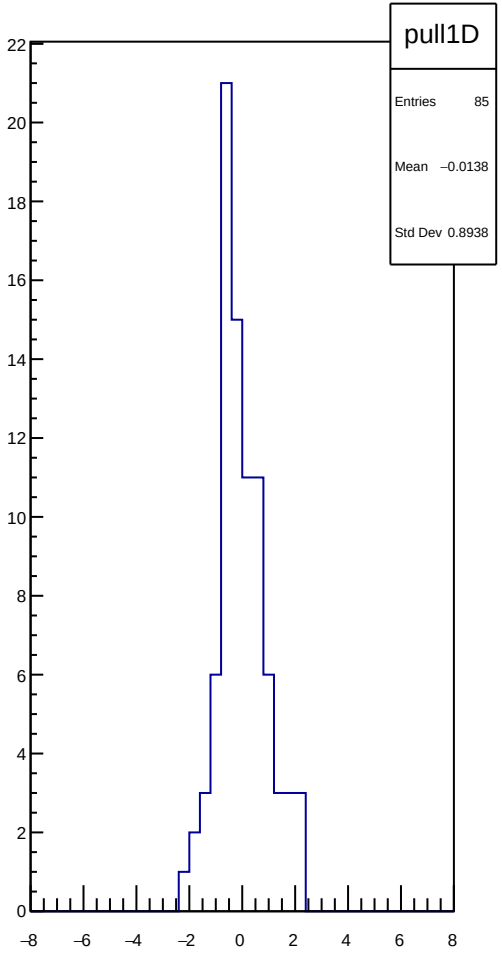

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

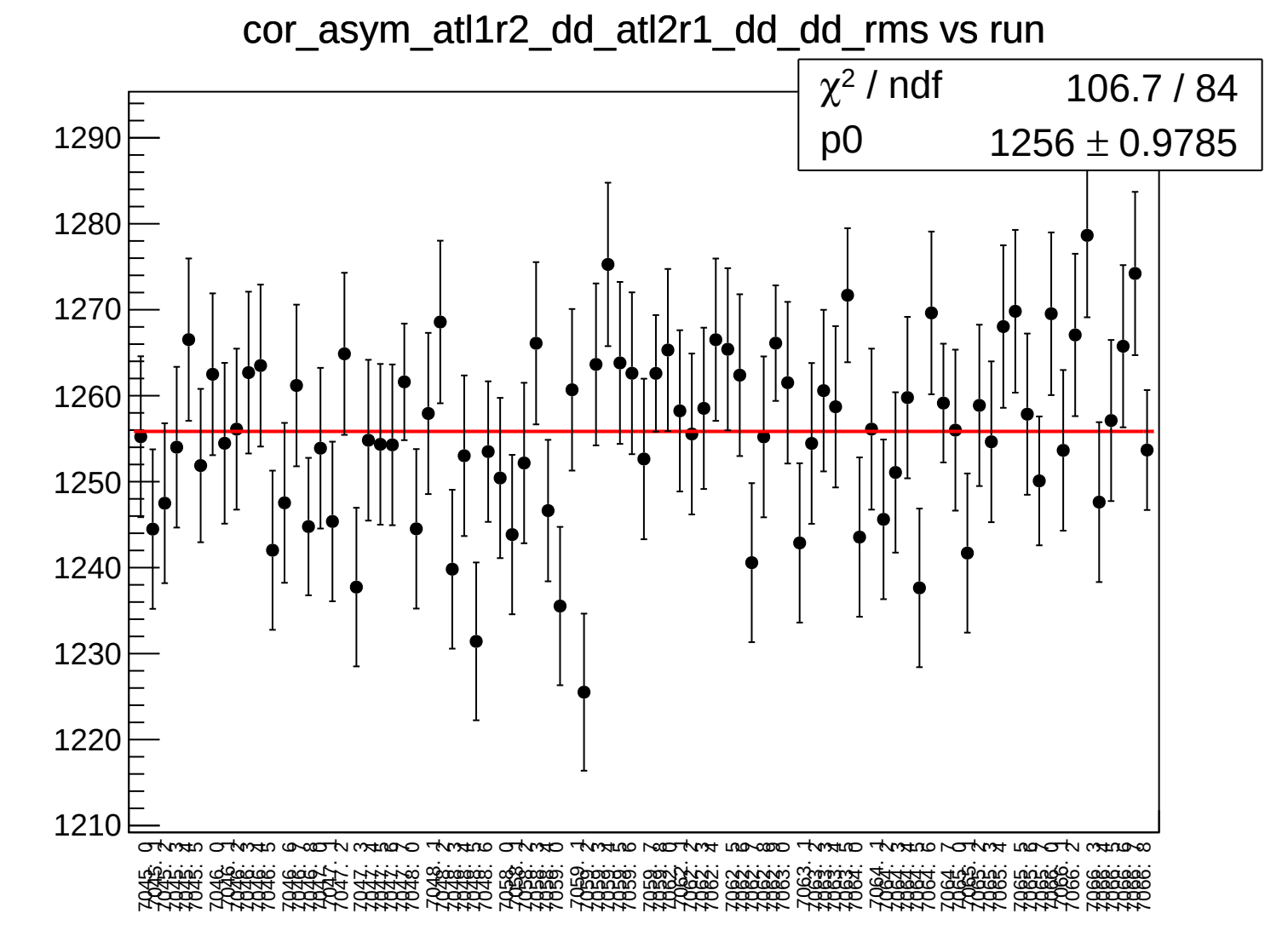

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

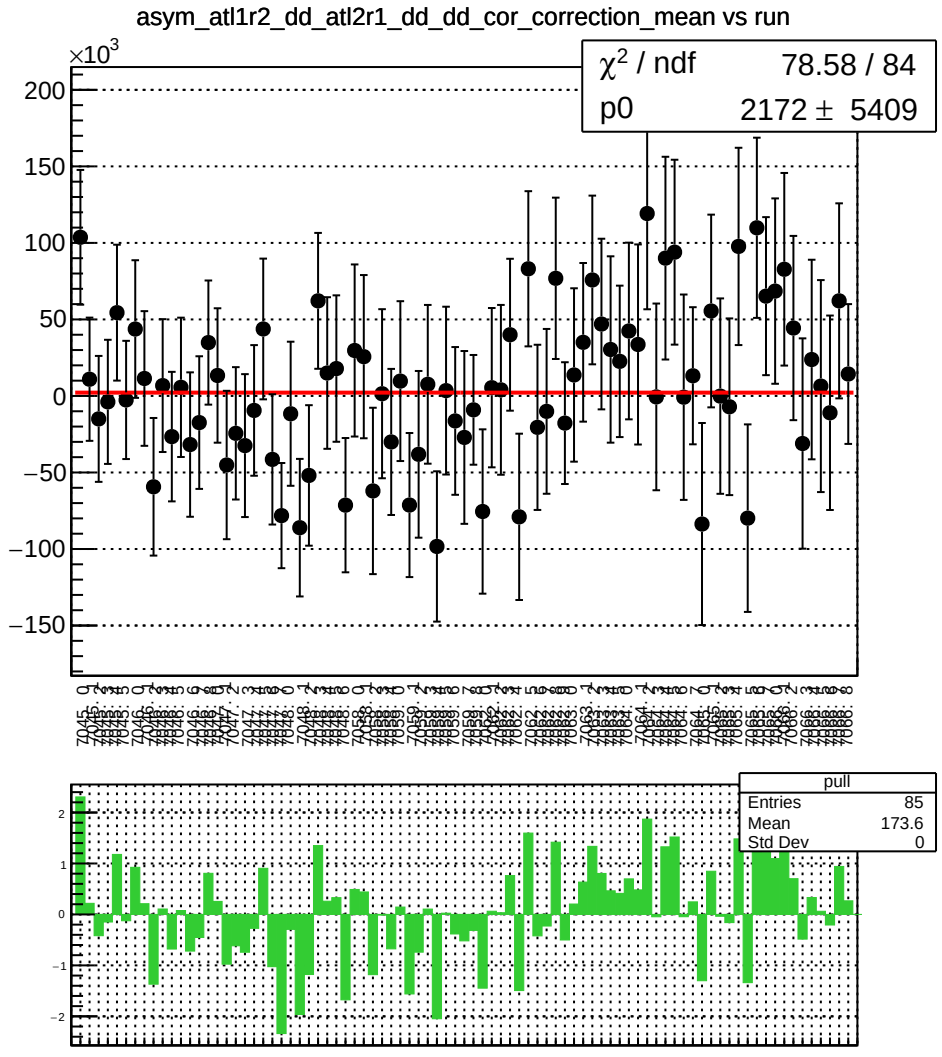

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

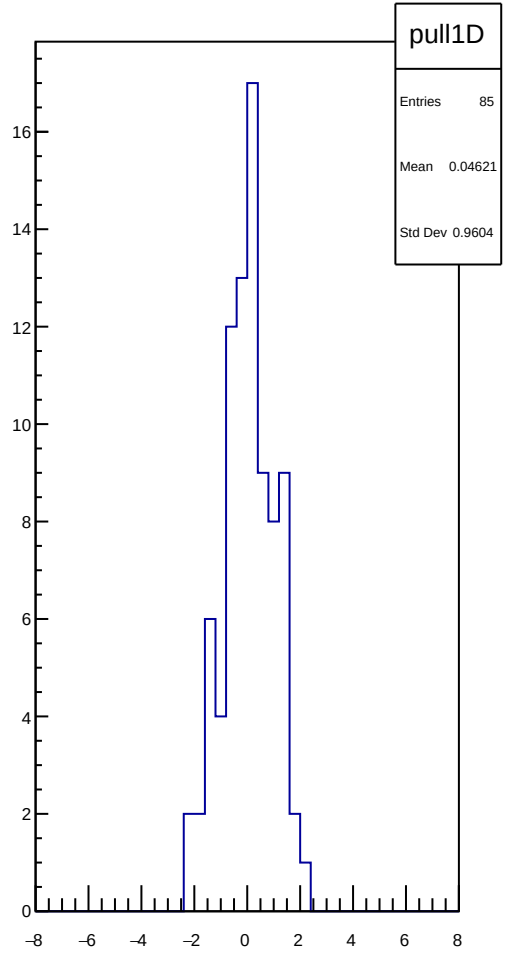

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

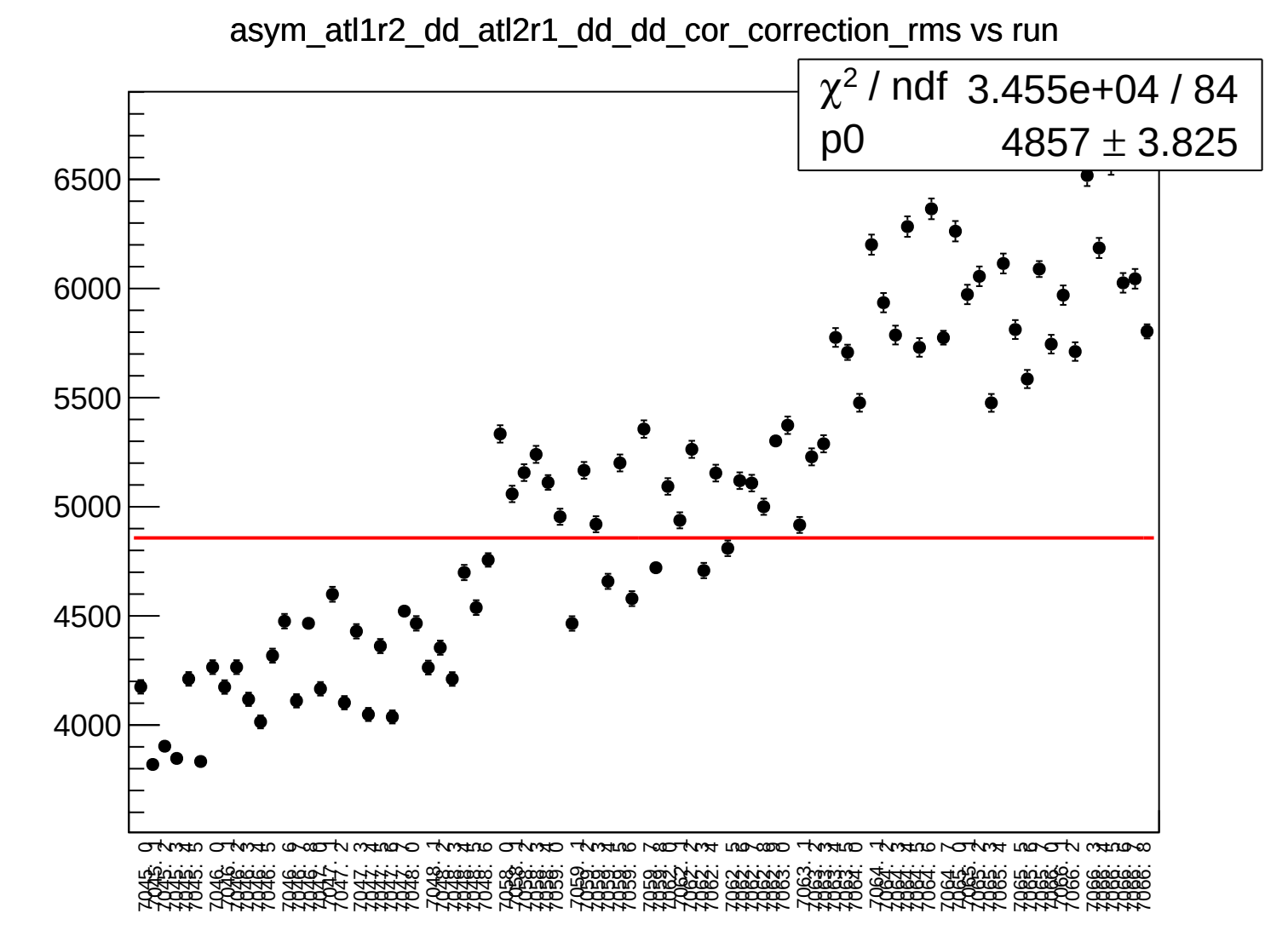

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.6
Std Dev 0

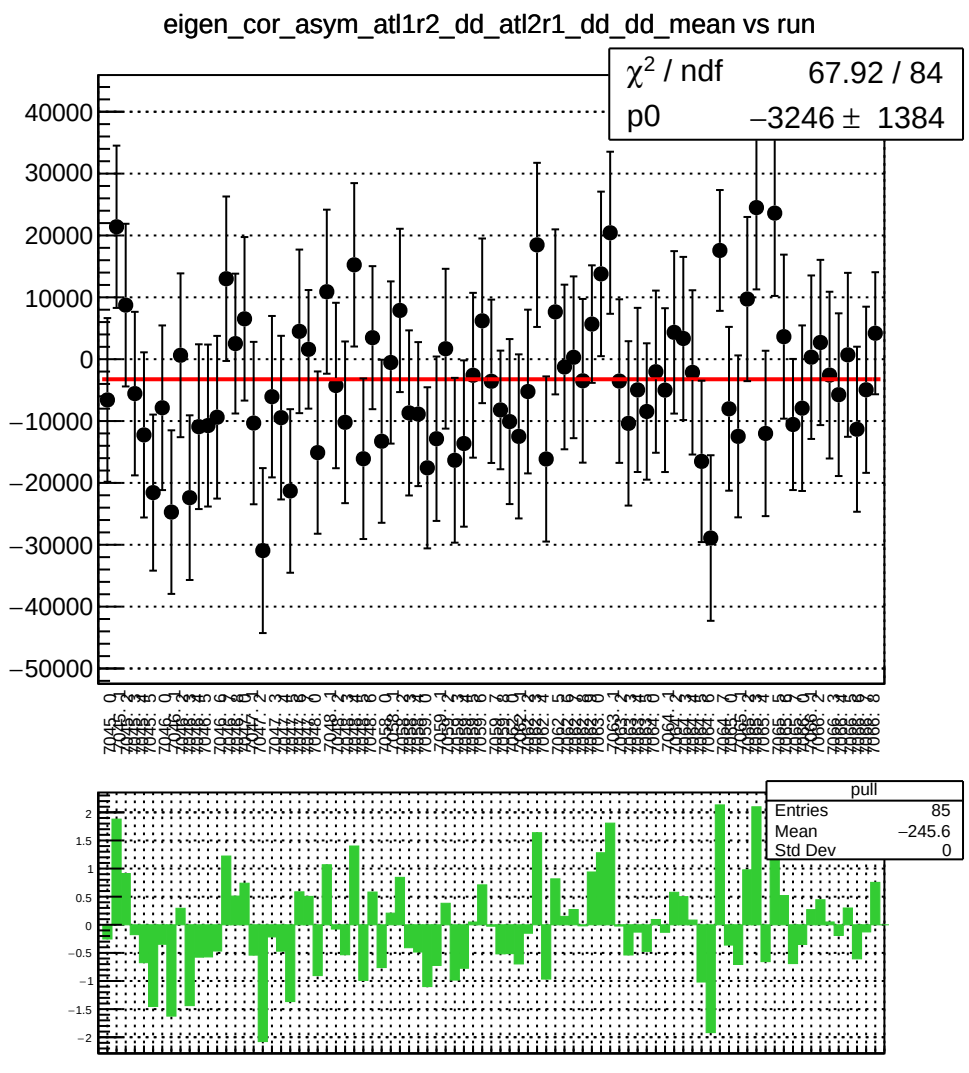

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

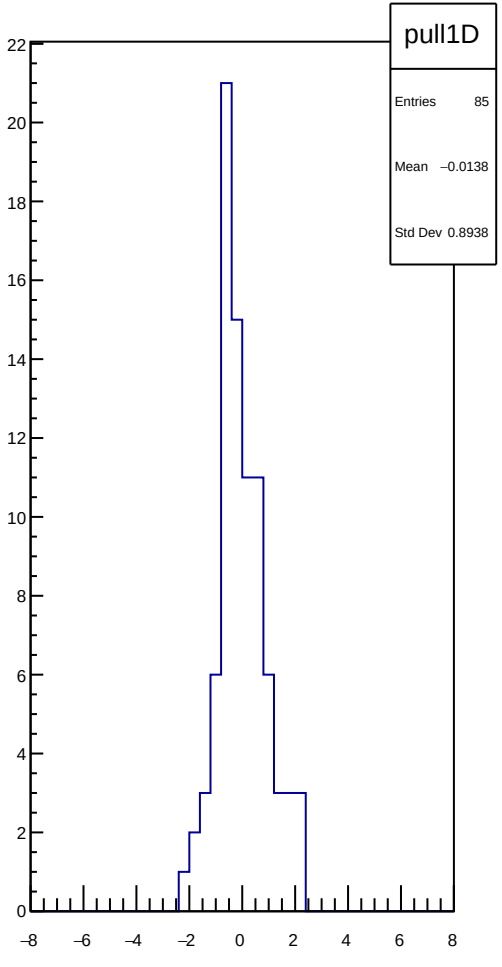

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

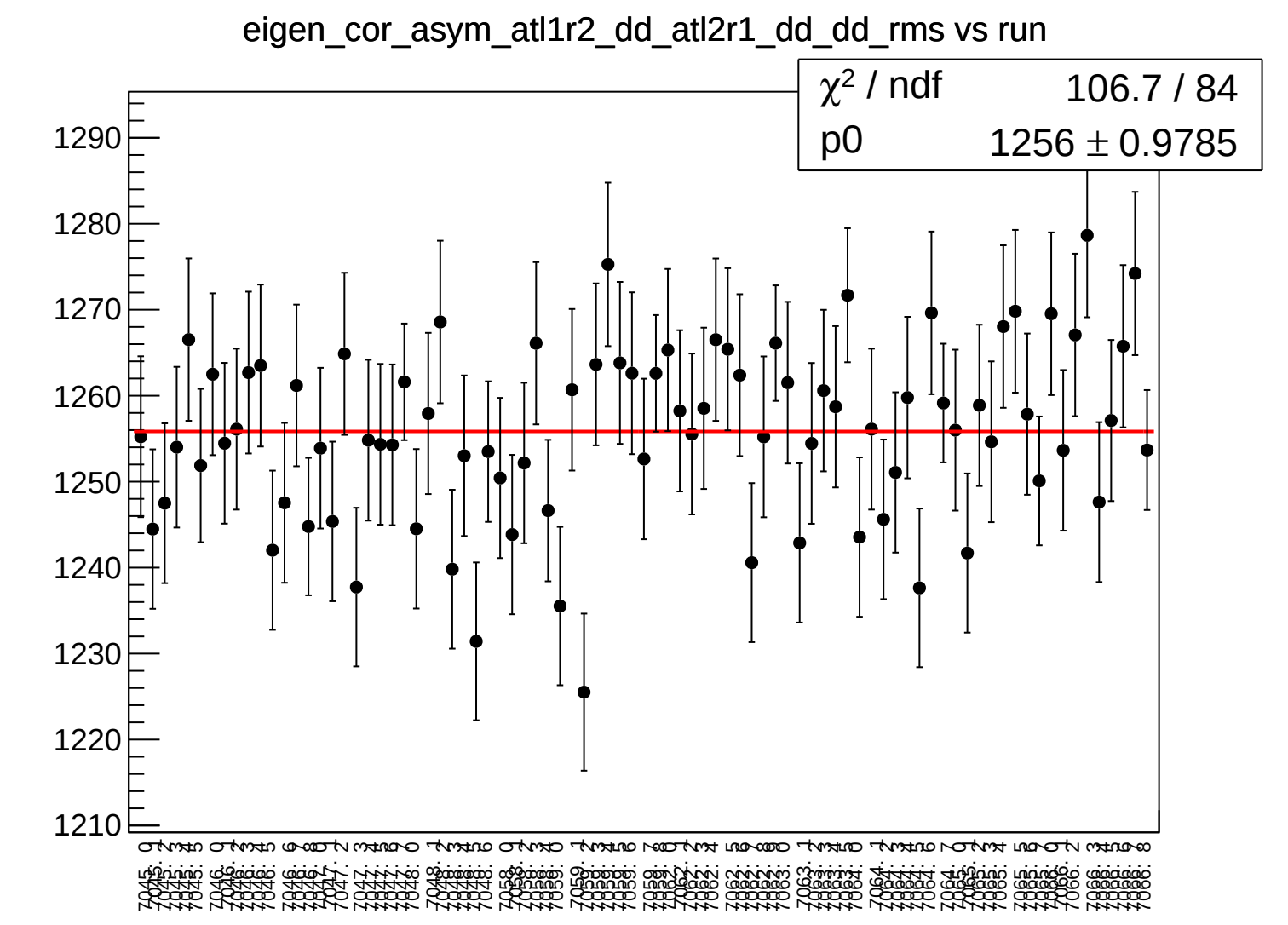

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

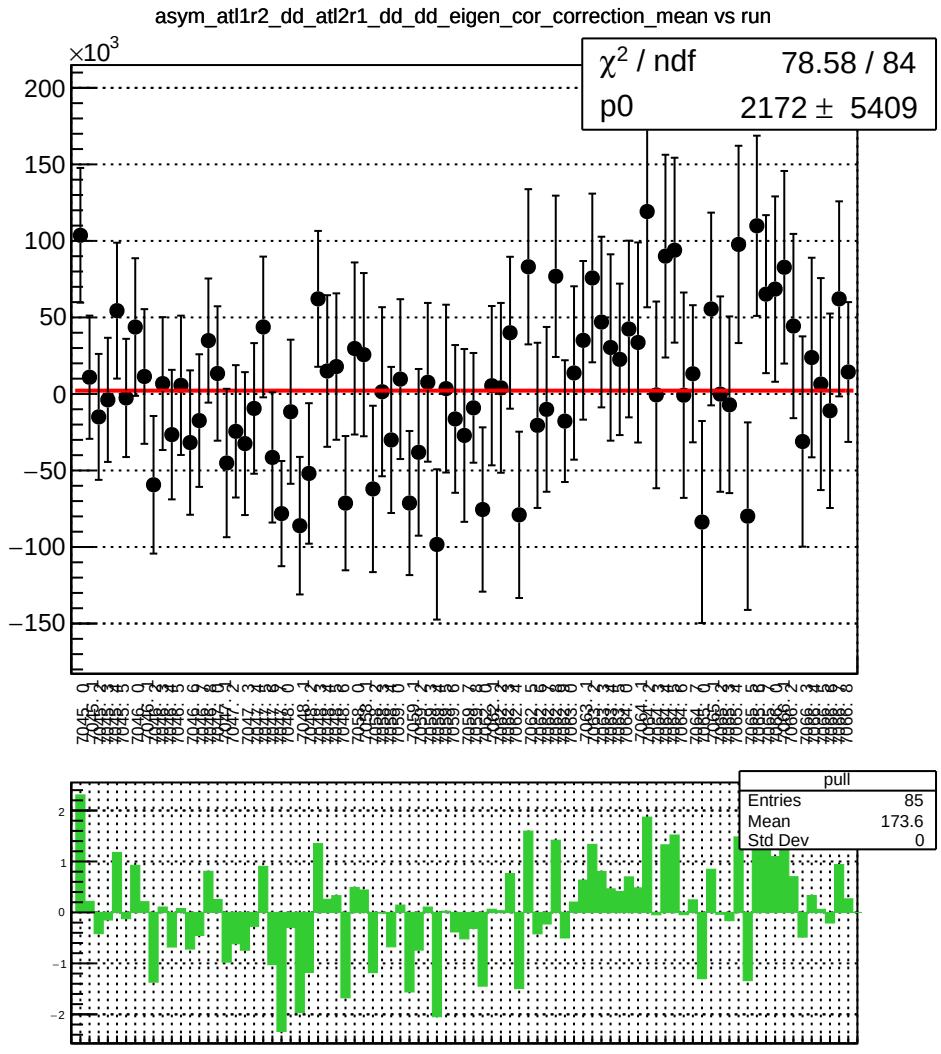

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

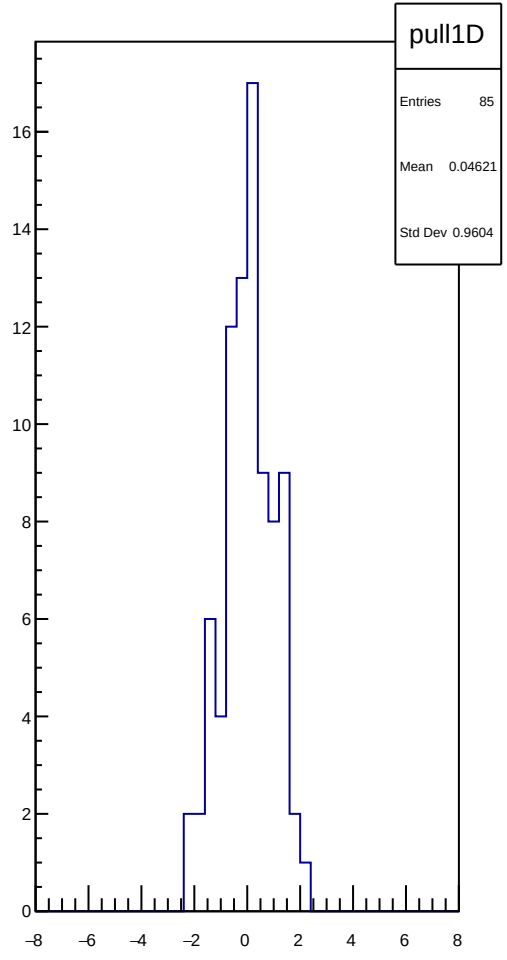

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

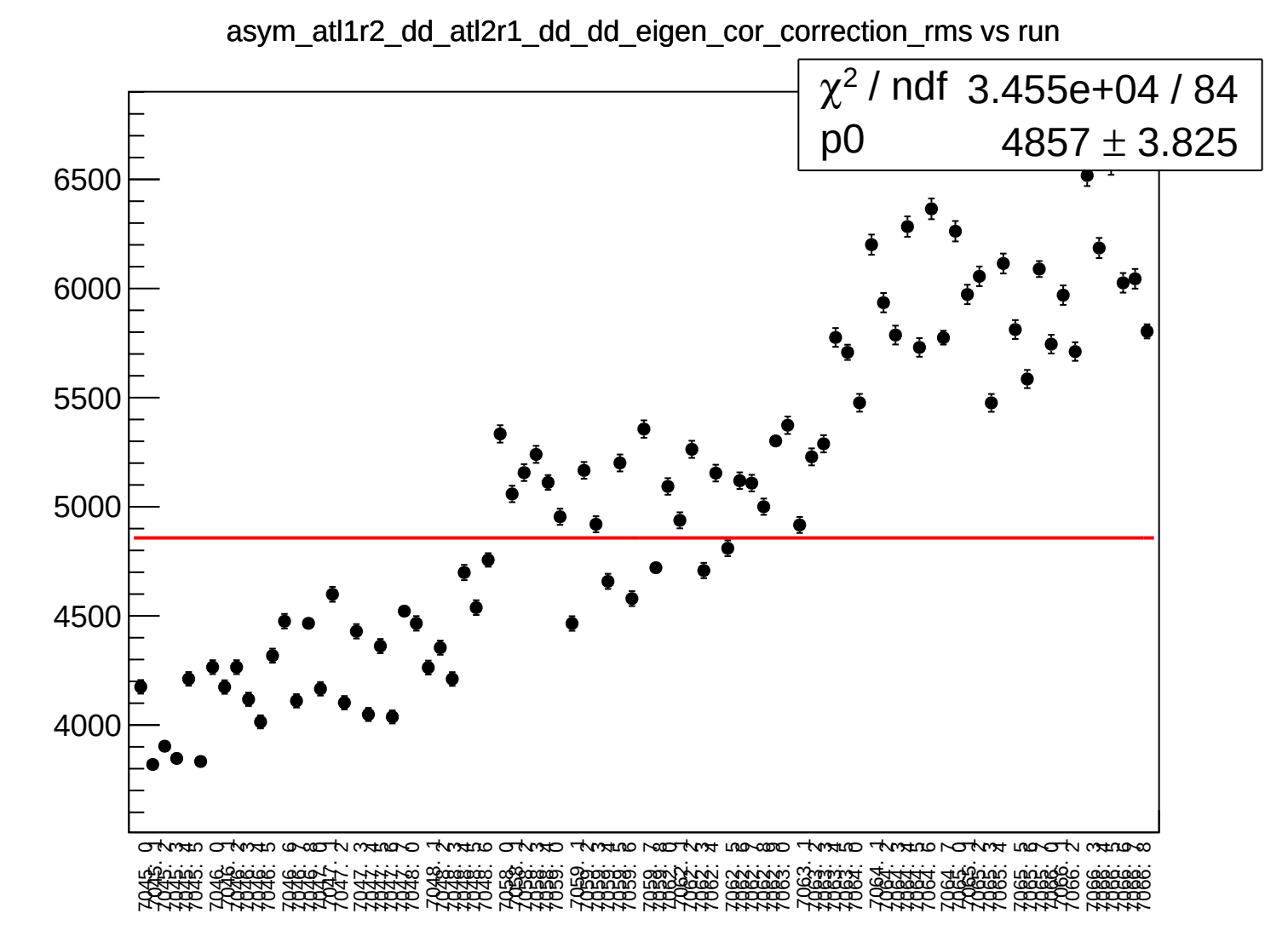

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.92 / 84
p0 −3246 ± 1384
pull
Entries 85
Mean −245.6
Std Dev 0

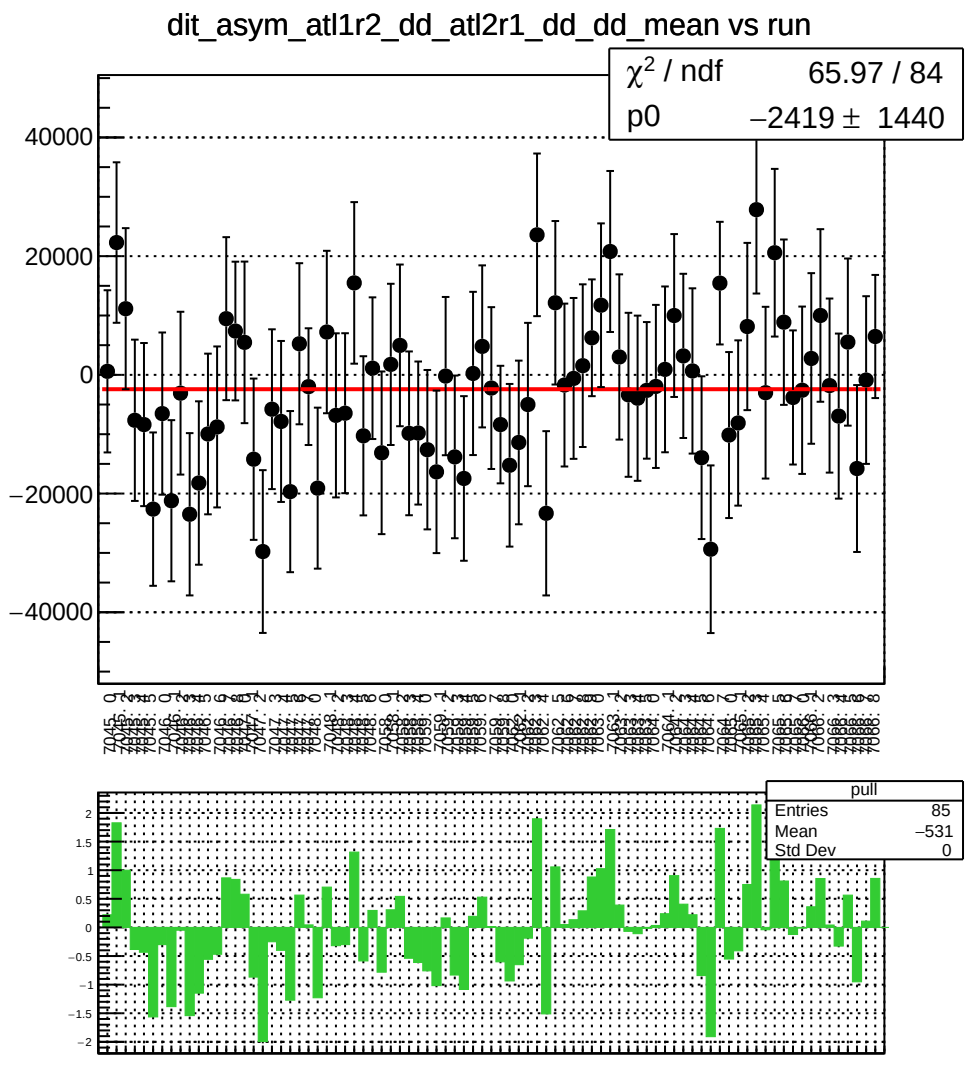

pull1D
Entries 85
Mean −0.0138
Std Dev 0.8938

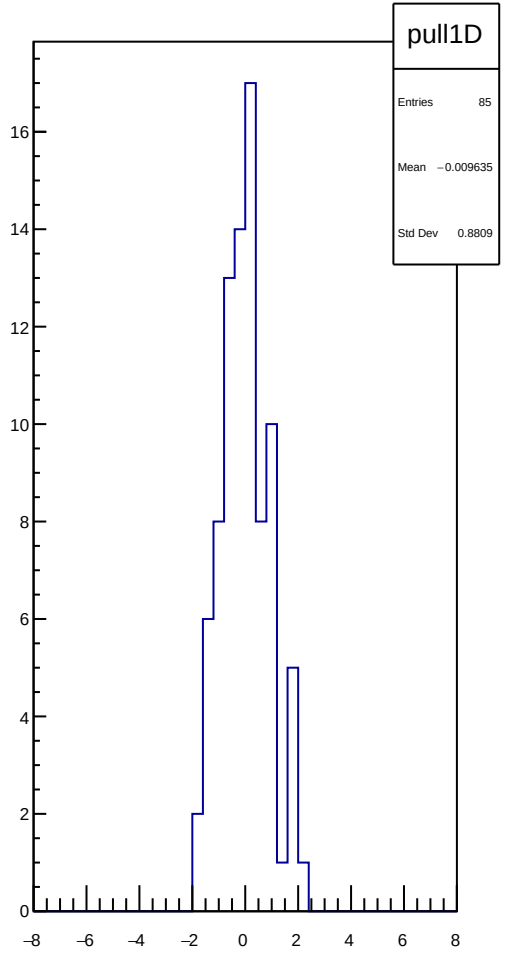

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 106.7 / 84
p0 1256 ± 0.9785
1290
1280
1270
1260
1250
1240
1230
1220
1210

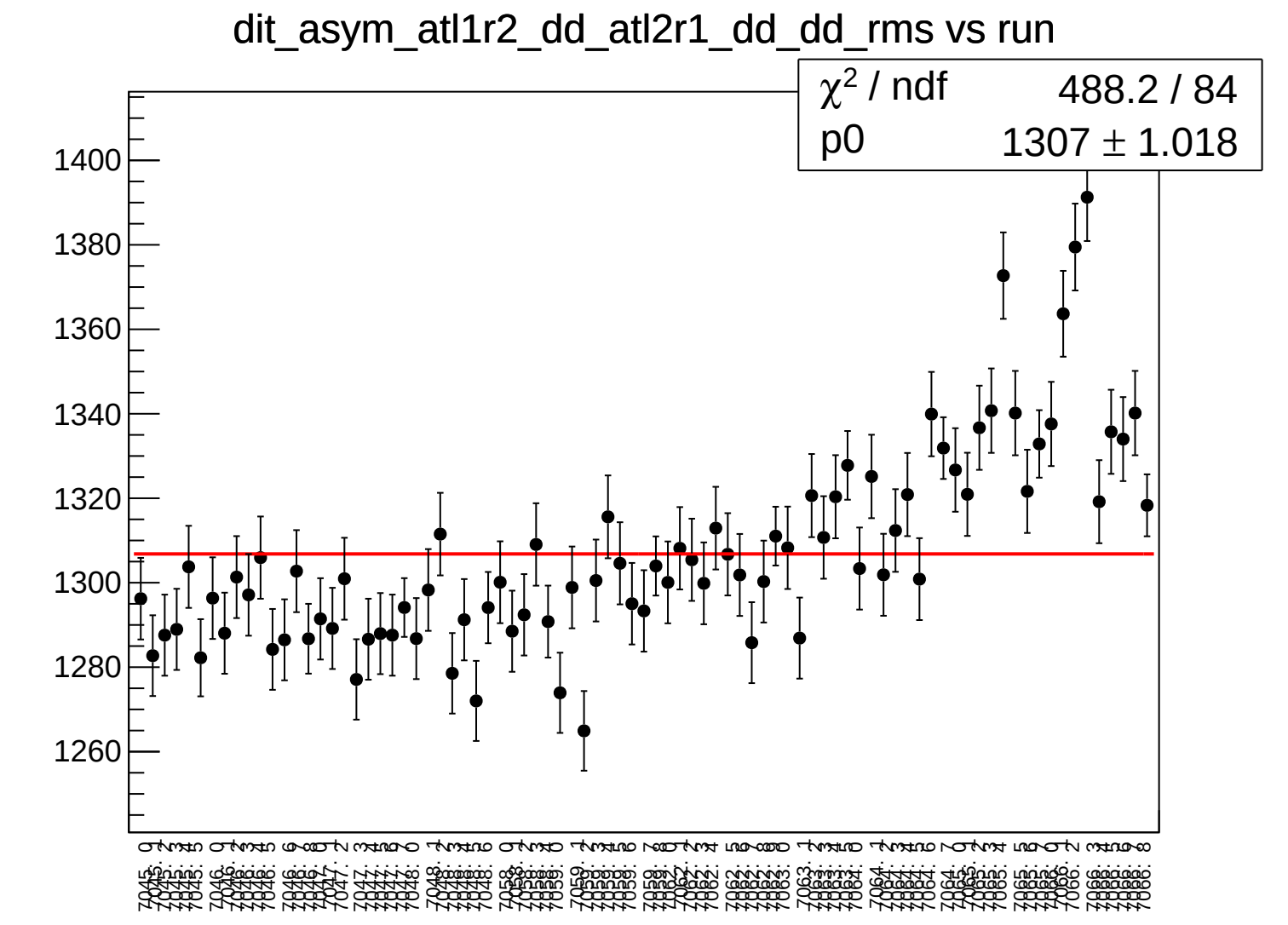

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 84
p0 2172 ± 5409
pull
Entries 85
Mean 173.6
Std Dev 0

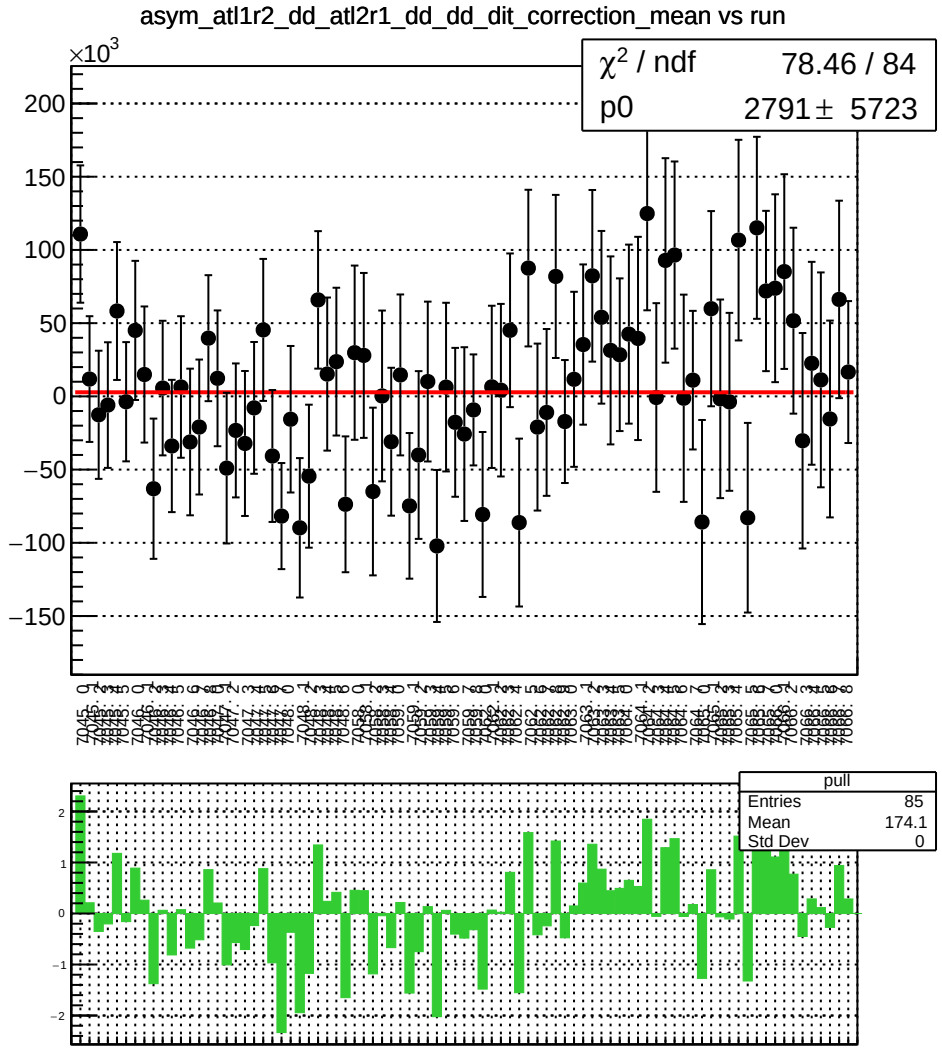

pull1D
Entries 85
Mean 0.04621
Std Dev 0.9604

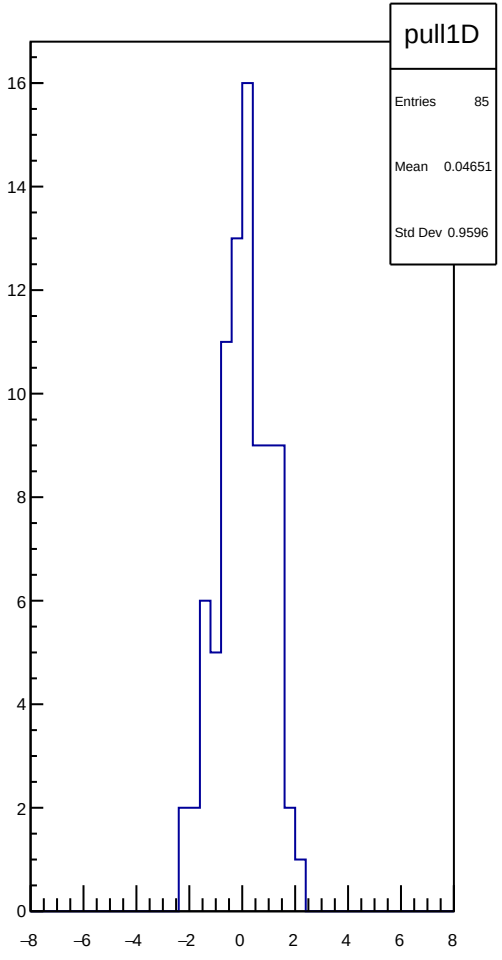

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.455e+04 / 84
p0 4857 ± 3.825
6500
6000
5500
5000
4500
4000

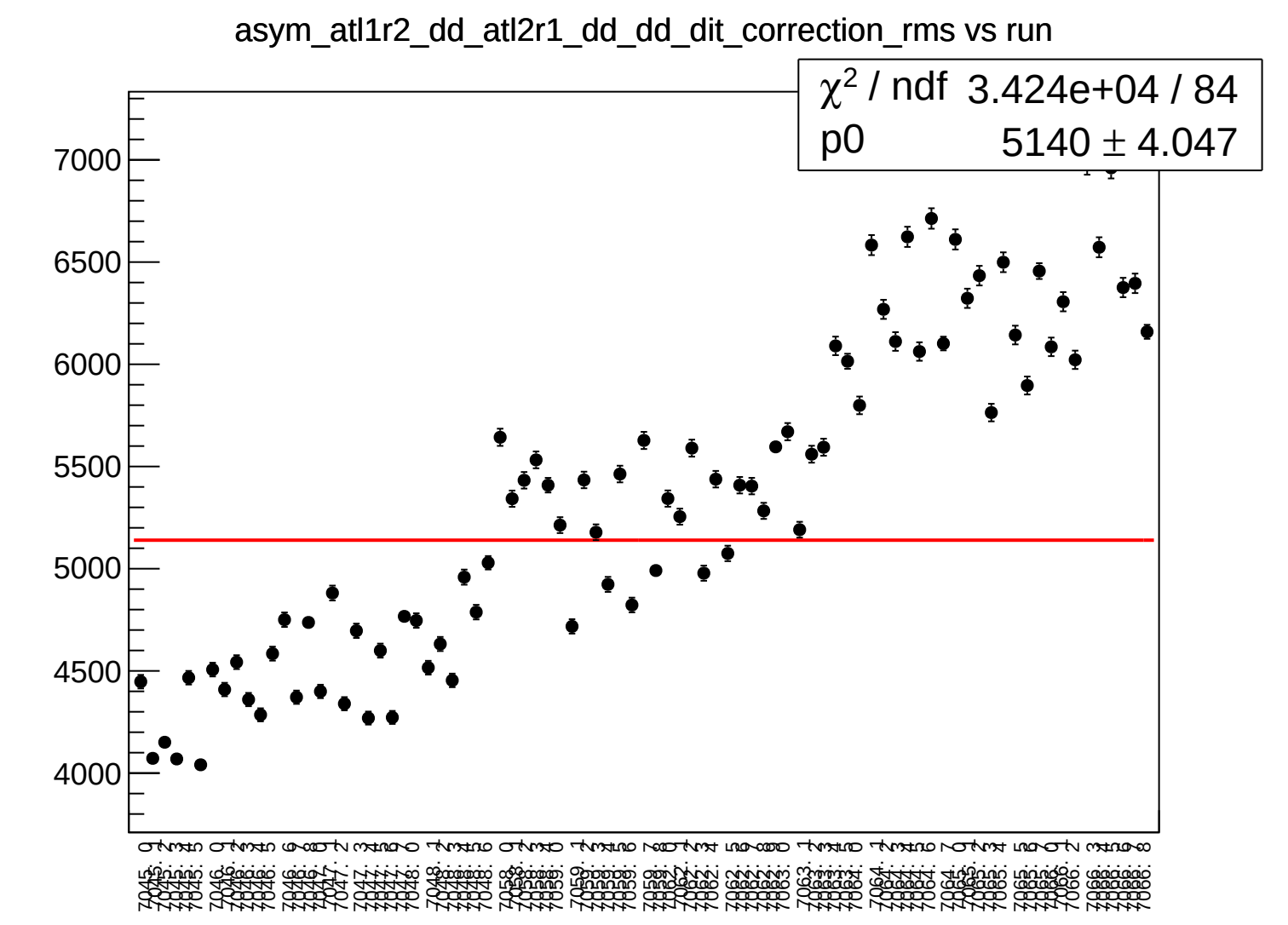

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 65.97 / 84
p0 −2419 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

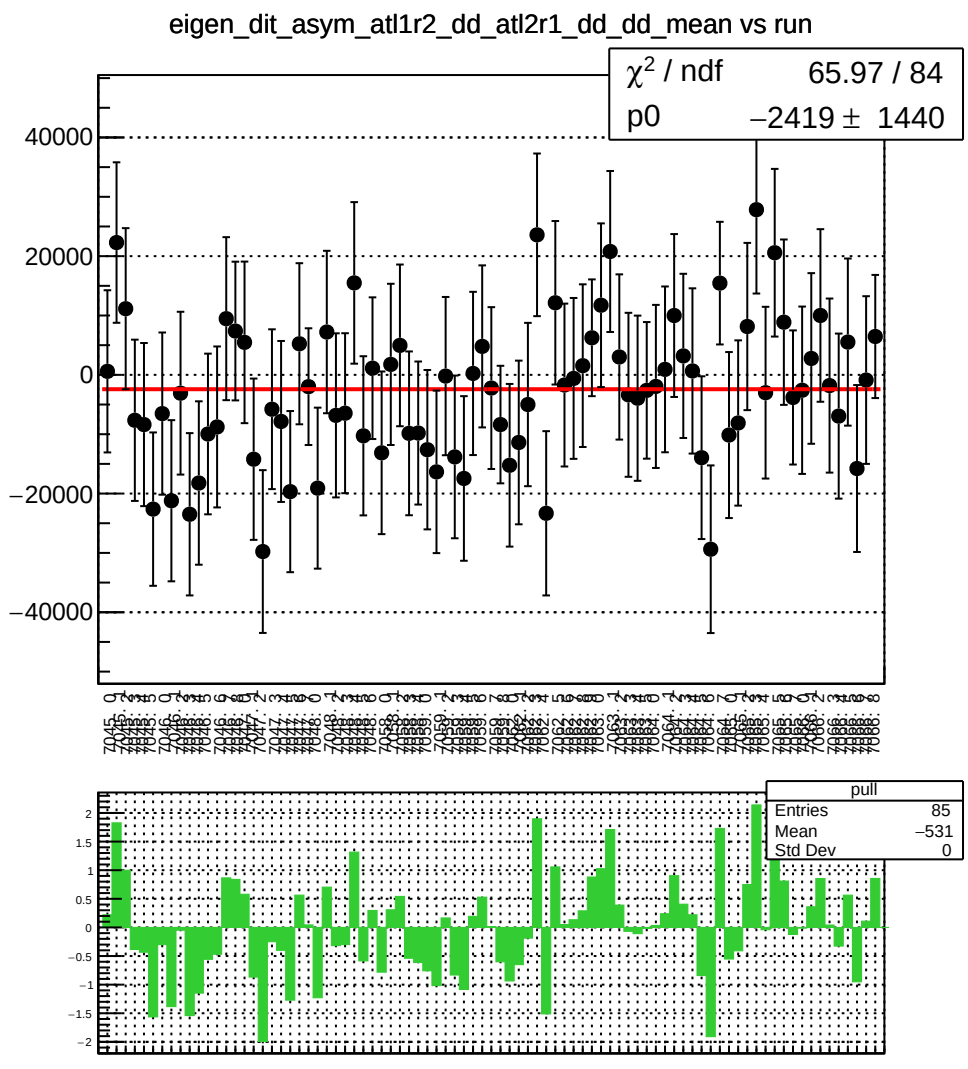

pull1D
Entries 85
Mean −0.009635
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

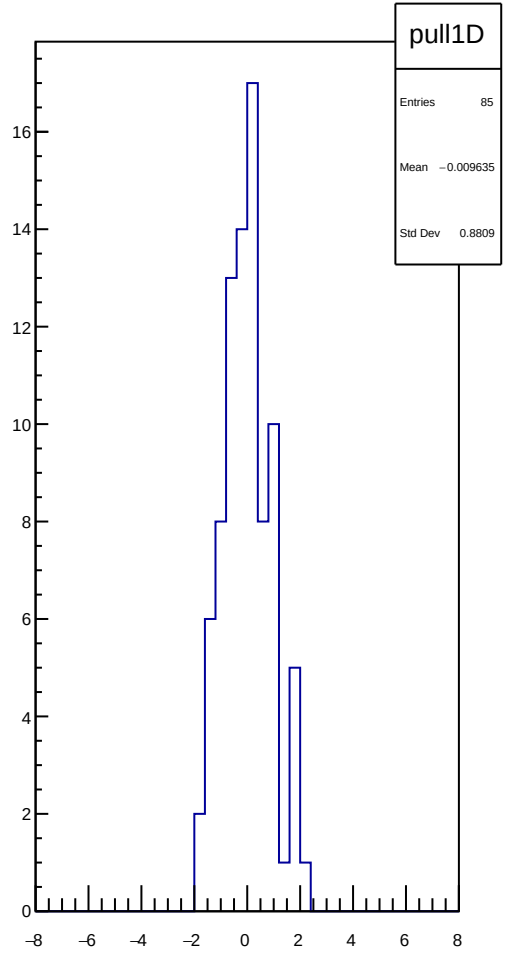

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 488.2 / 84
p0 1307 ± 1.018
1400
1380
1360
1340
1320
1300
1280
1260

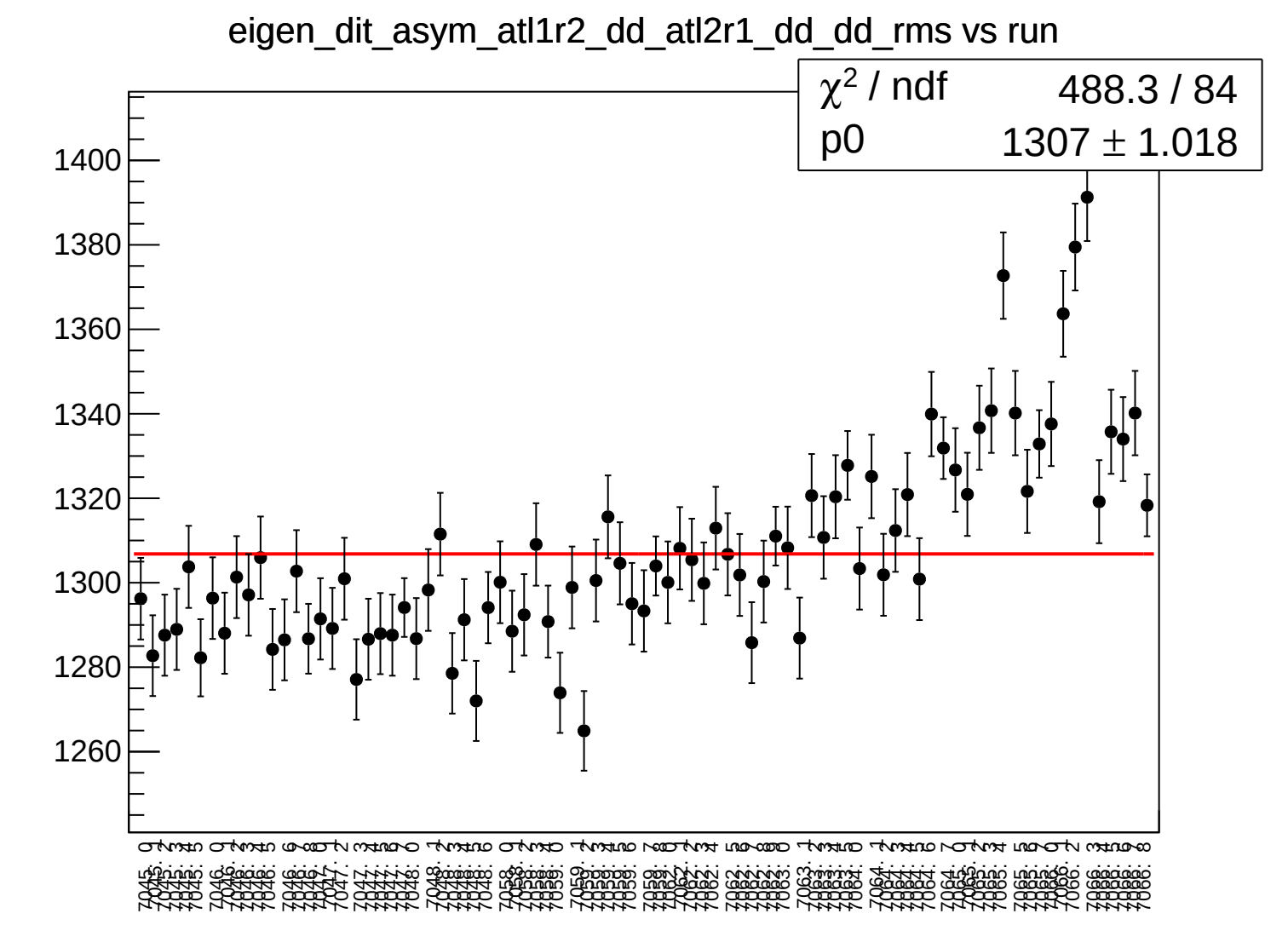

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 84
p0 2791 ± 5723
pull
Entries 85
Mean 174.1
Std Dev 0

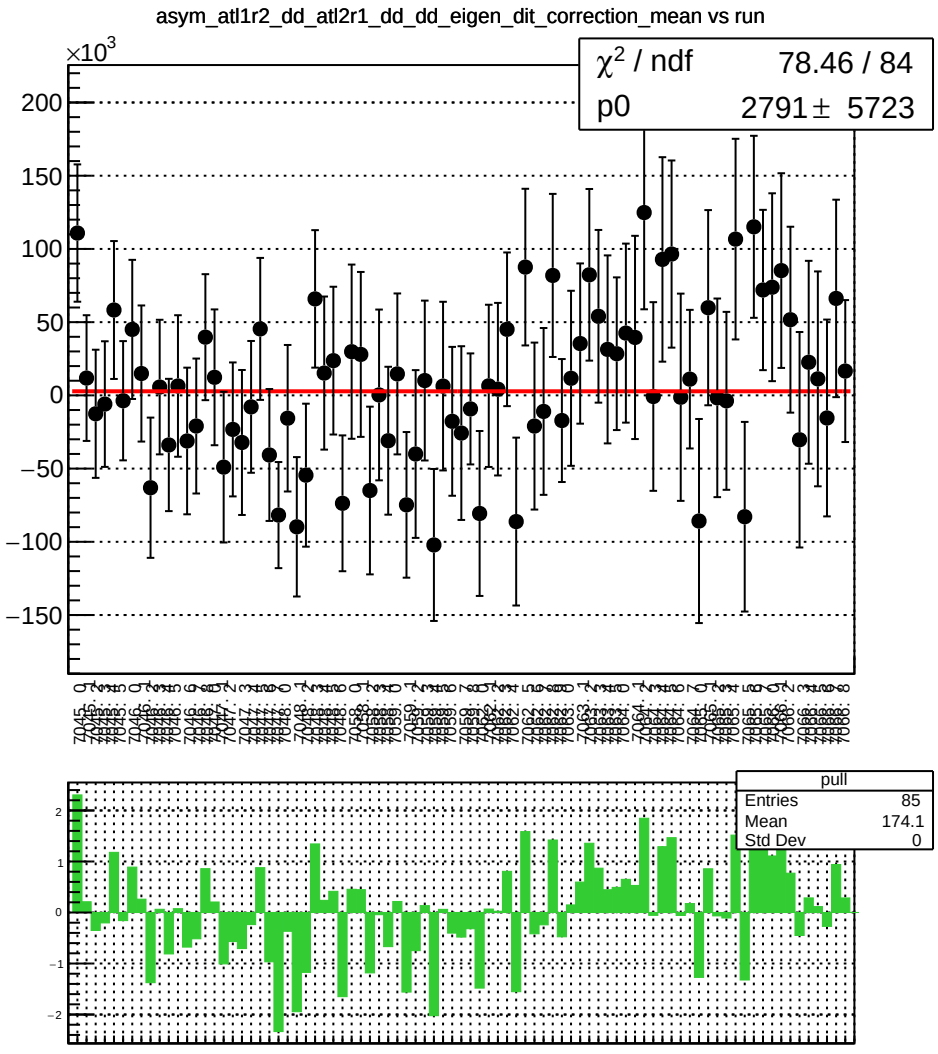

pull1D
Entries 85
Mean 0.04651
Std Dev 0.9596

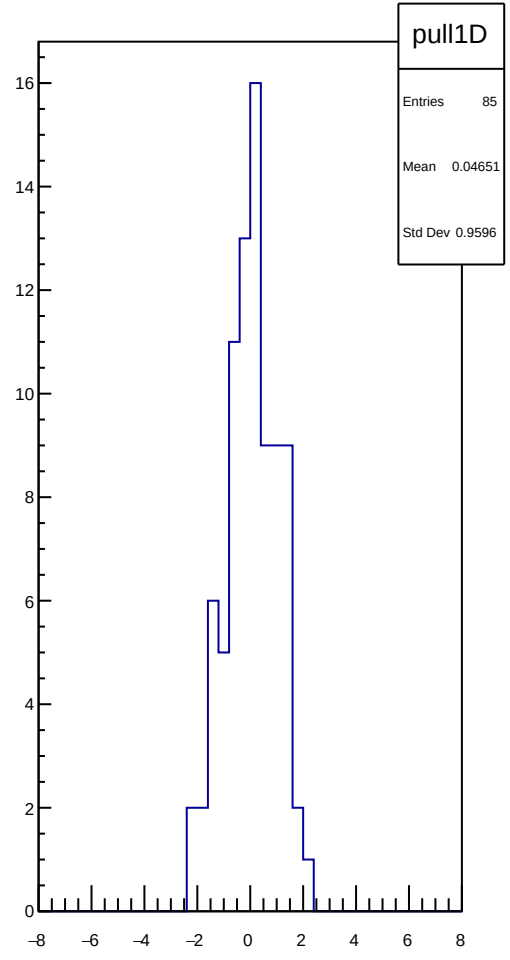

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3.424e+04 / 84
p0 5140 ± 4.047
7000
6500
6000
5500
5000
4500
4000

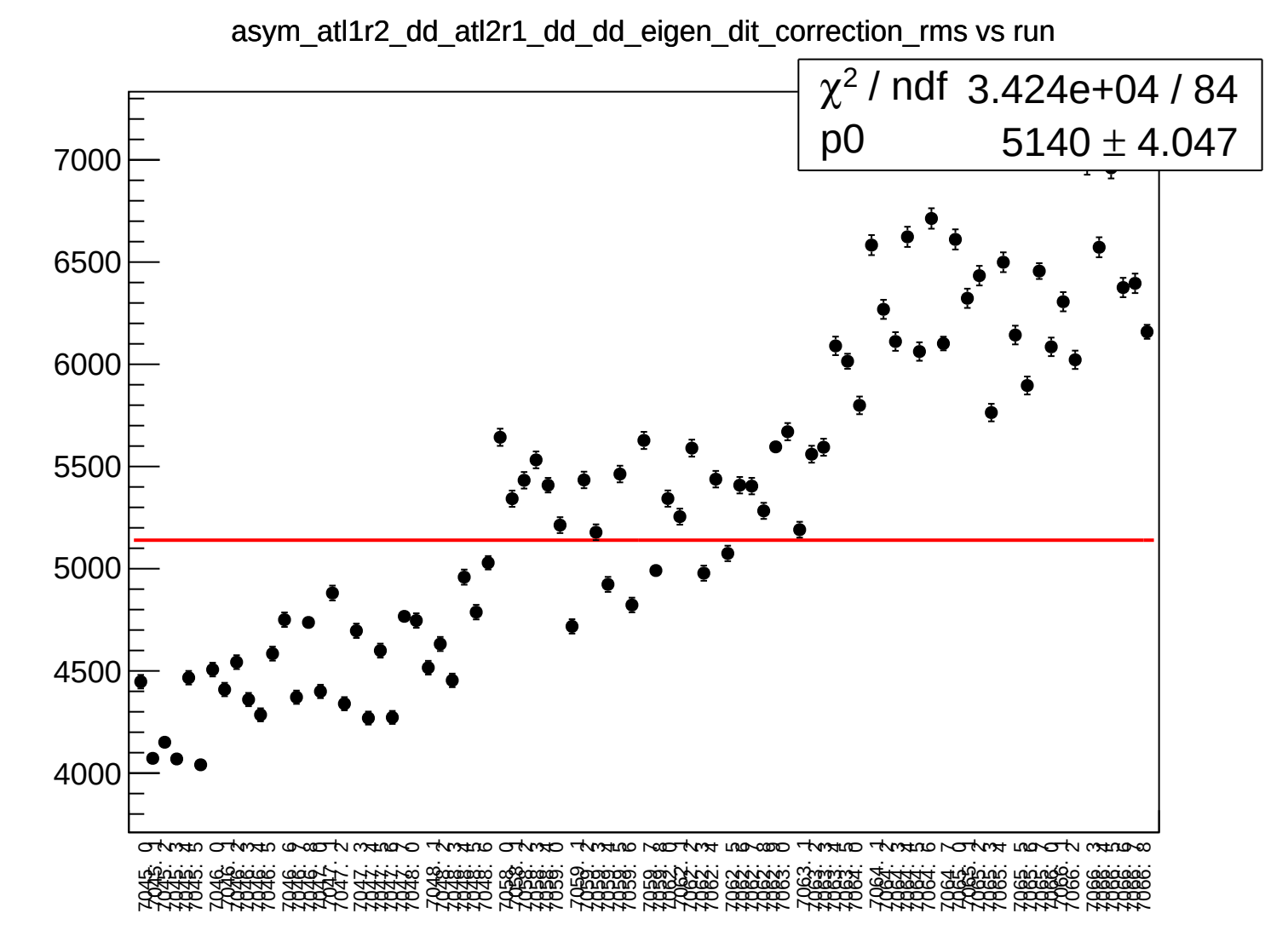

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 65.97 / 84
p0 −2419 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −531
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

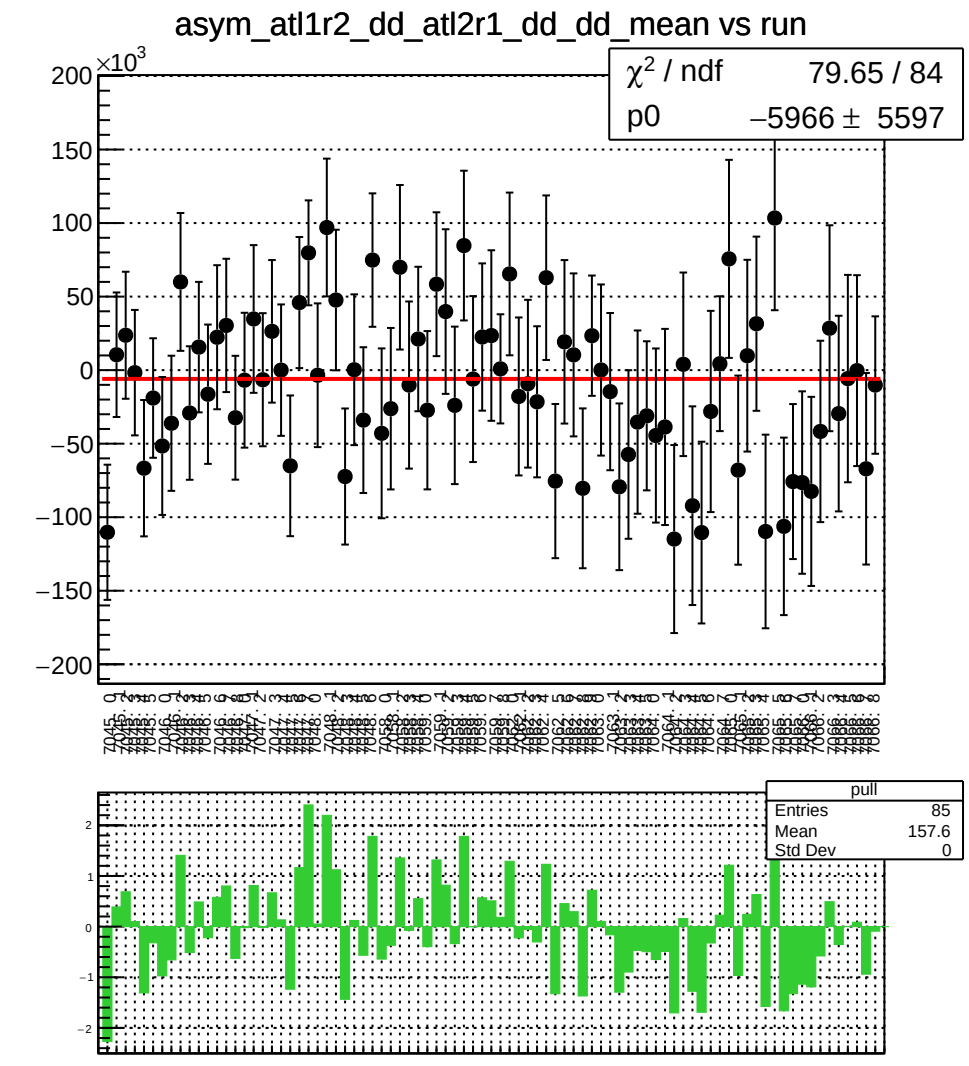

pull1D
Entries 85
Mean −0.009635
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

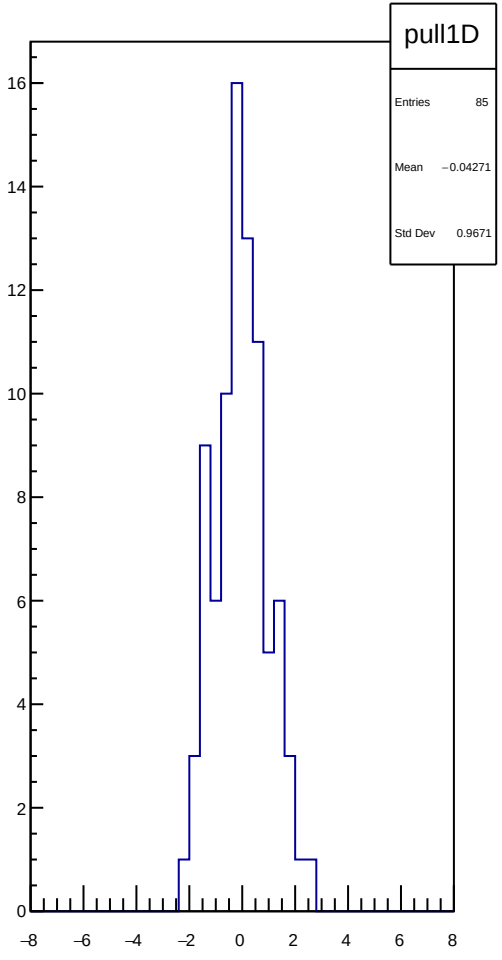

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 488.3 / 84
p0 1307 ± 1.018
1400
1380
1360
1340
1320
1300
1280
1260

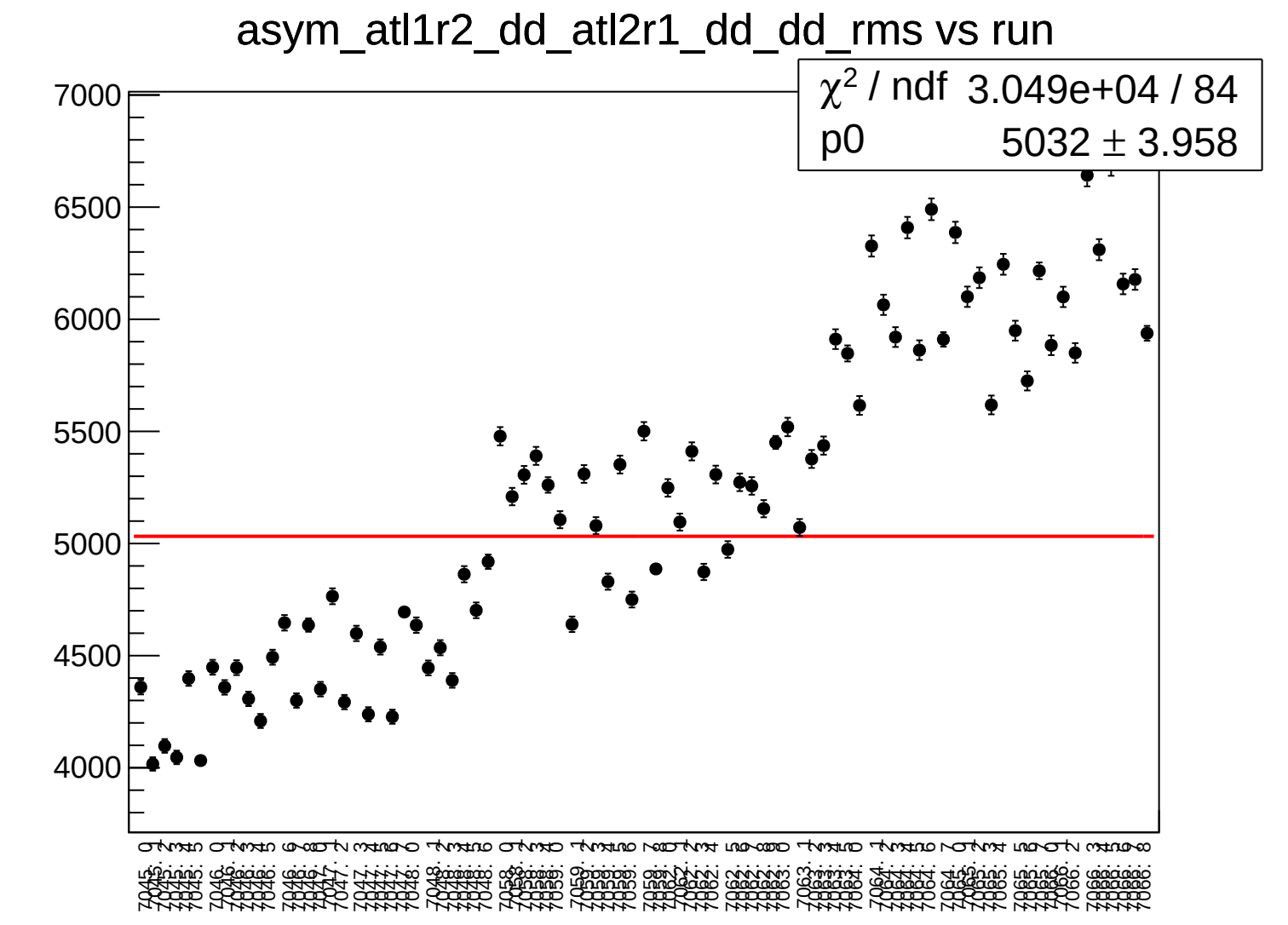

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.46 / 84
p0 2791 ± 5723
pull
Entries 85
Mean 174.1
Std Dev 0

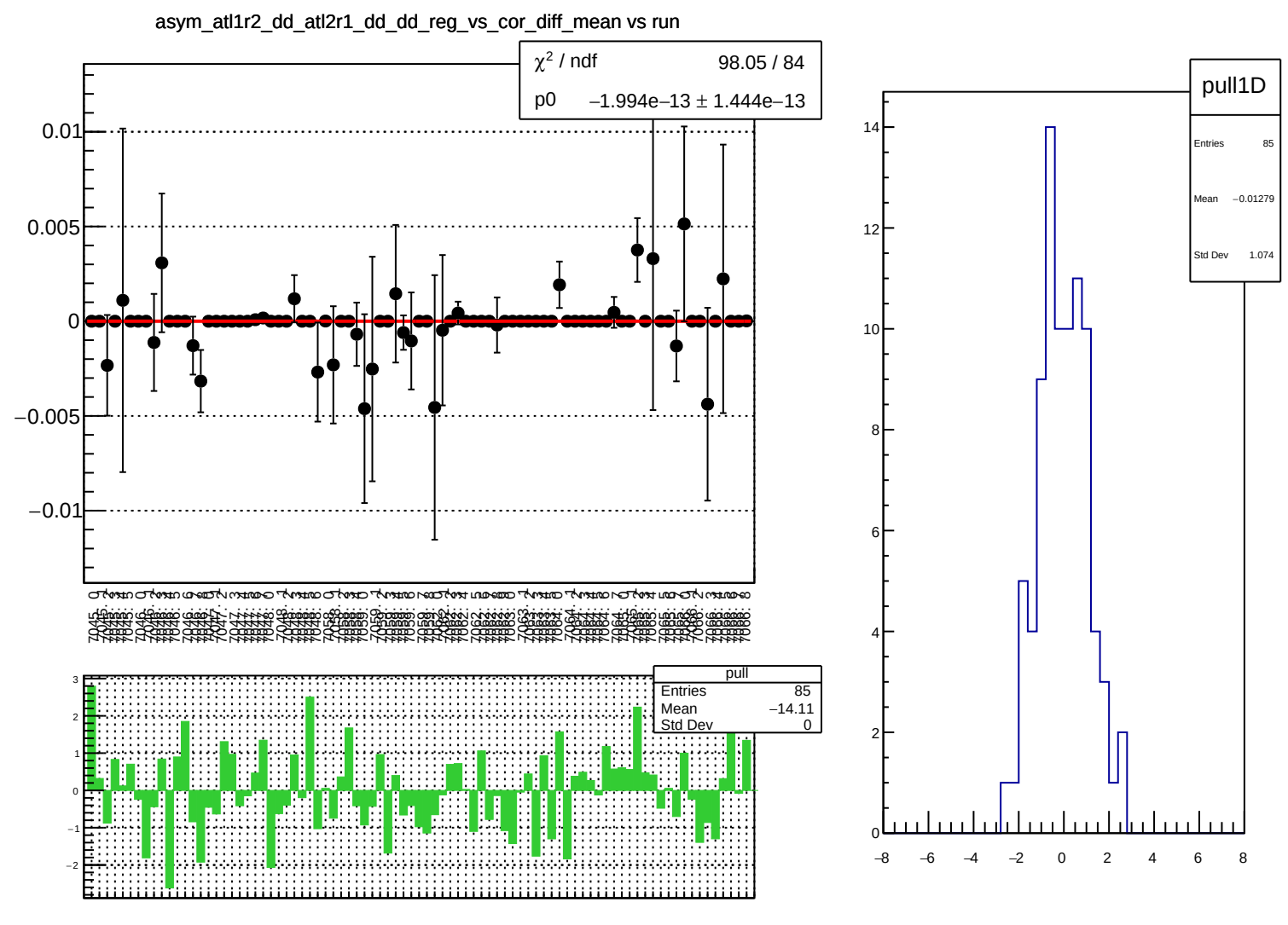

pull1D
Entries 85
Mean 0.04651
Std Dev 0.9596

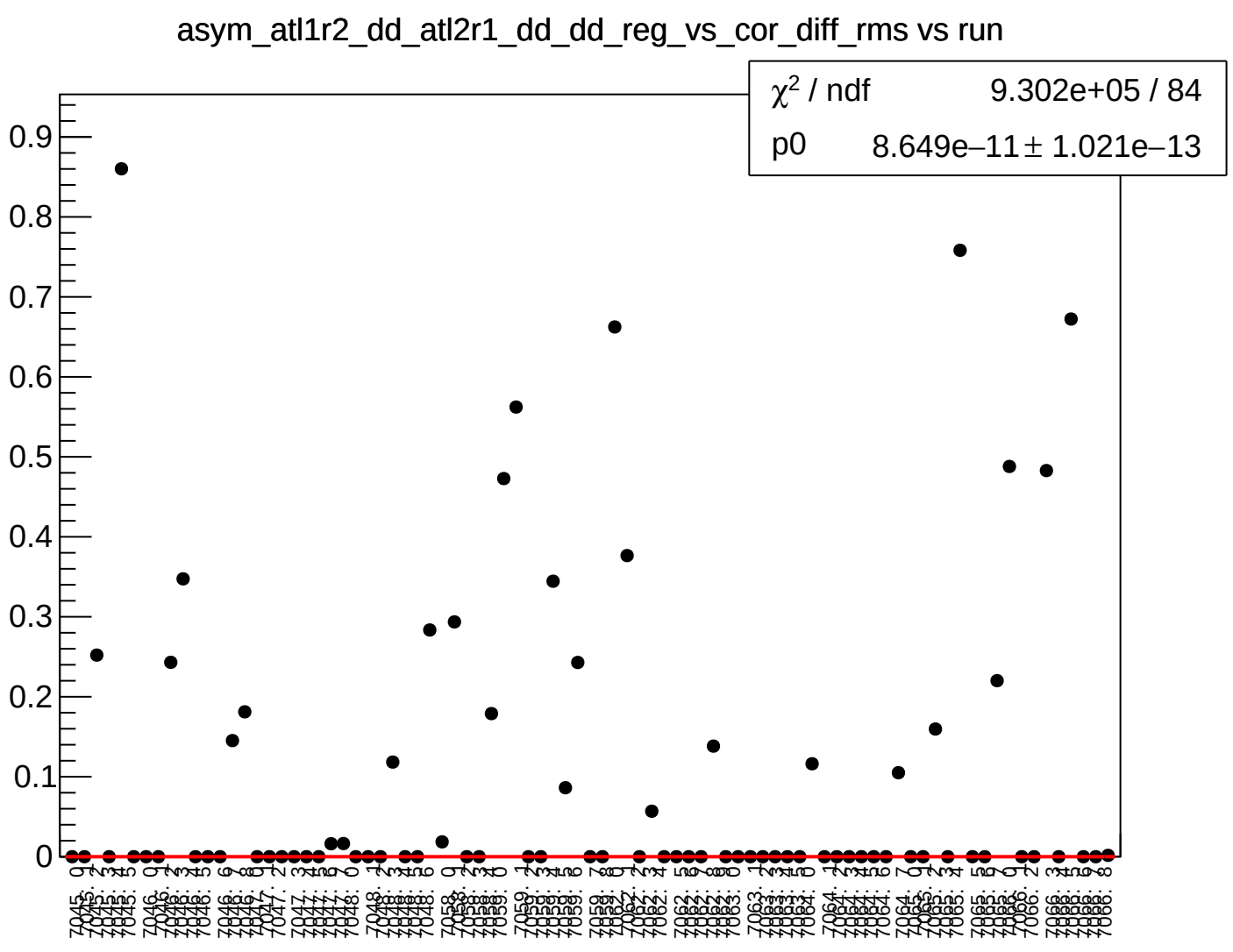

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.424e+04 / 84
p0 5140 ± 4.047
7000
6500
6000
5500
5000
4500
4000

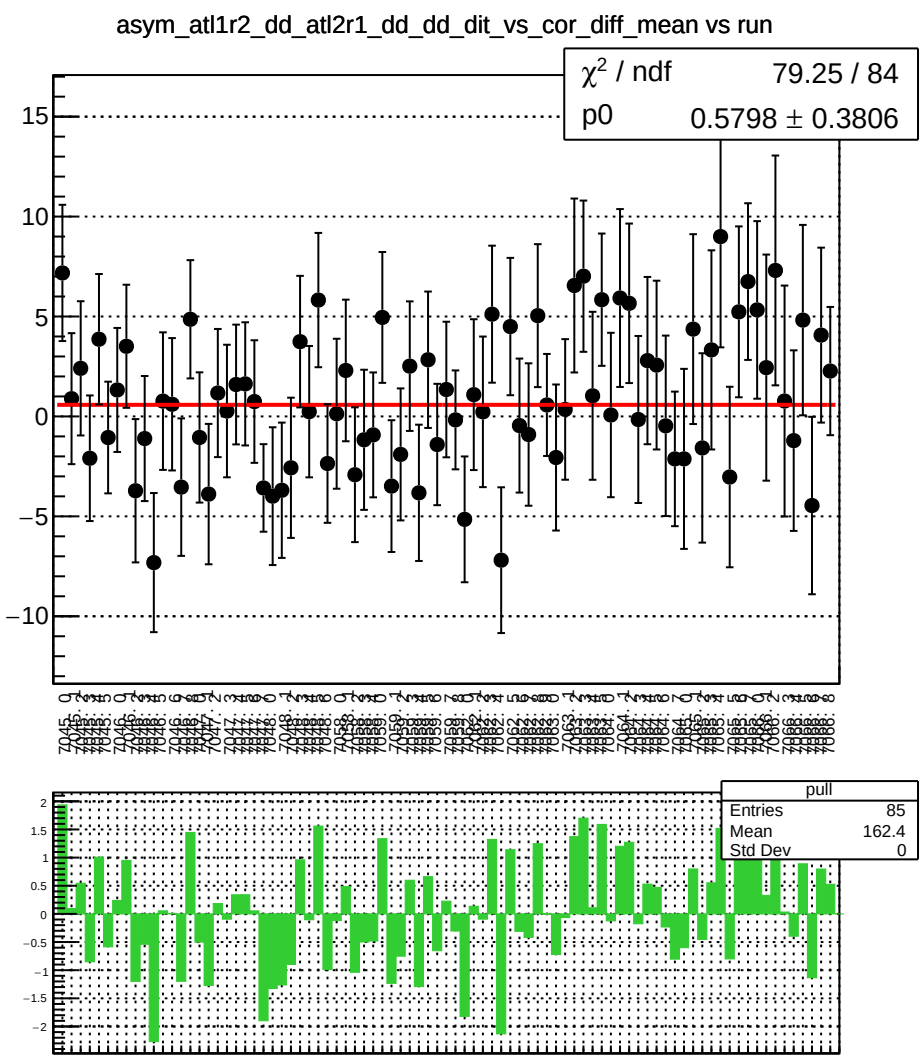

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.65 / 84
p0 −5966 ± 5597
×10³
pull
Entries 85
Mean 157.6
Std Dev 0

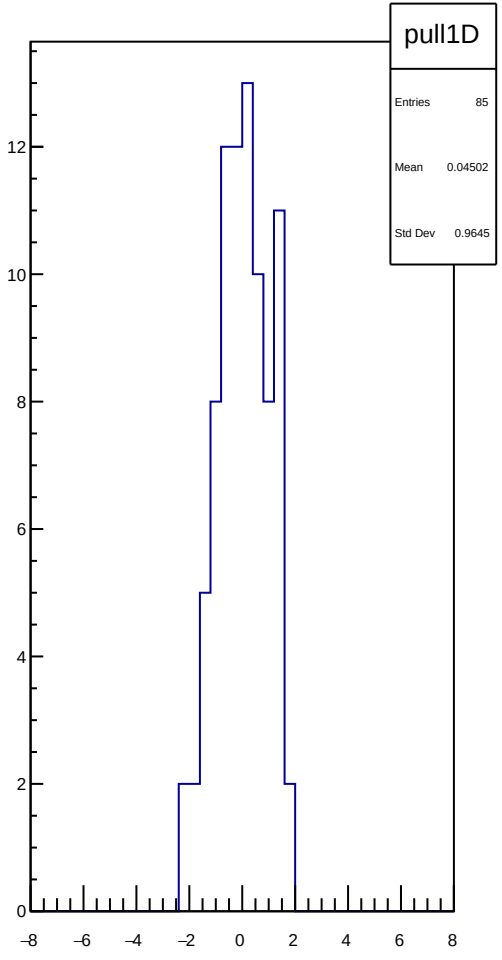

pull1D
Entries 85
Mean −0.04271
Std Dev 0.9671

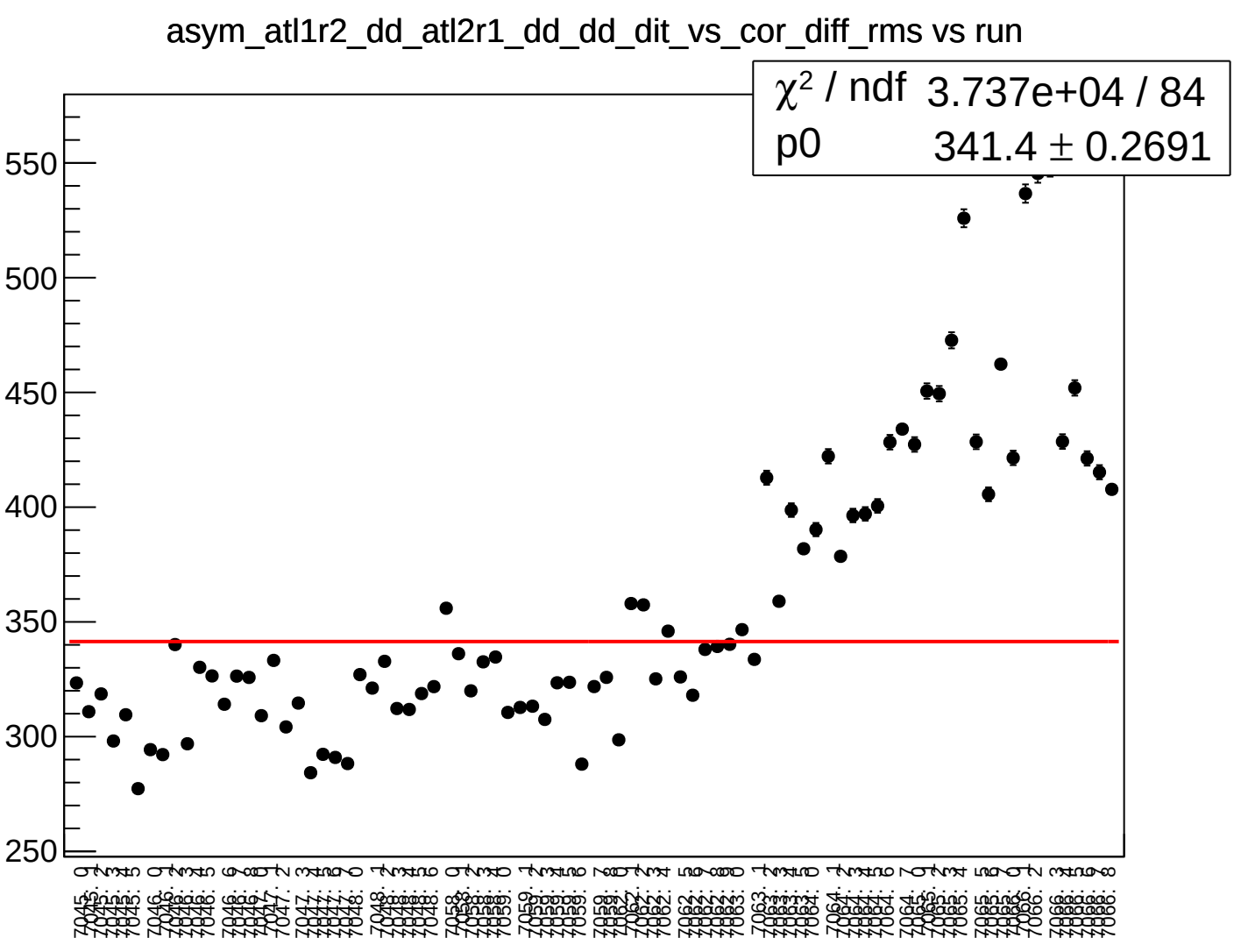

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3.049e+04 / 84
p0 5032 ± 3.958
7000
6500
6000
5500
5000
4500
4000

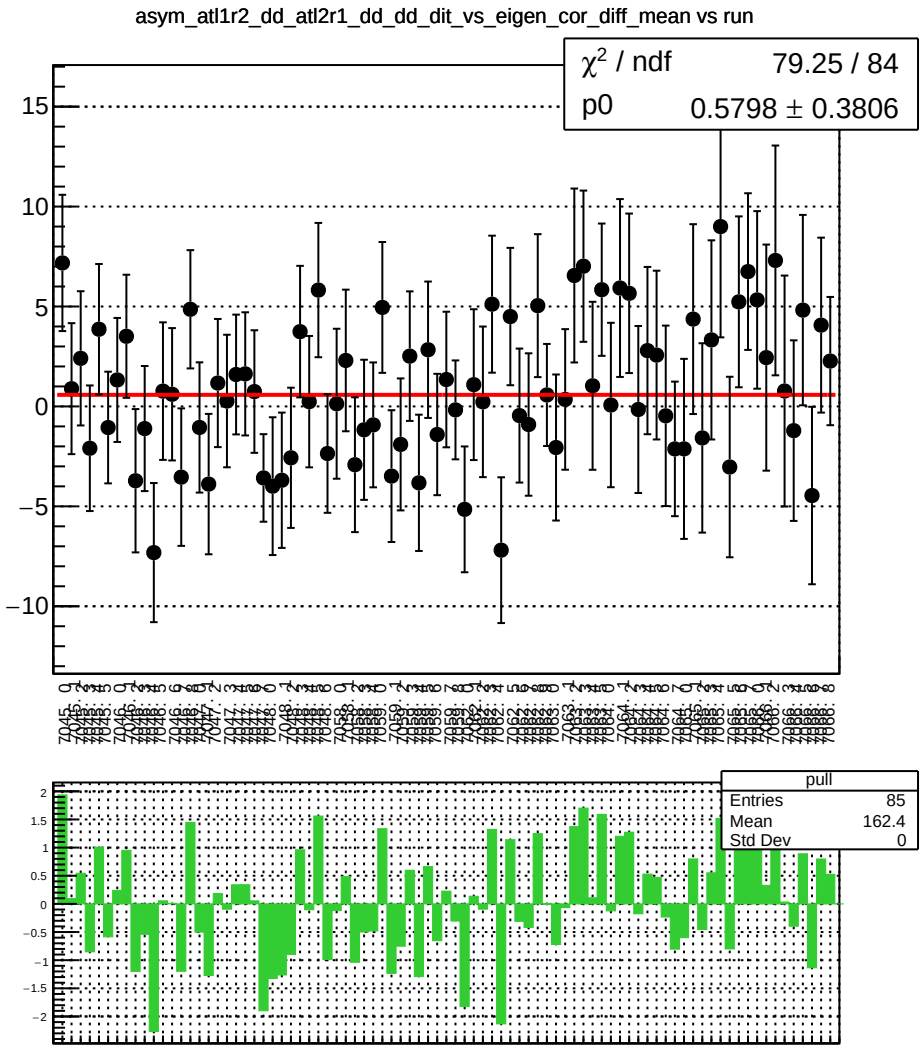

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 84
p0 −1.994e−13 ± 1.444e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean −14.11
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01279
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

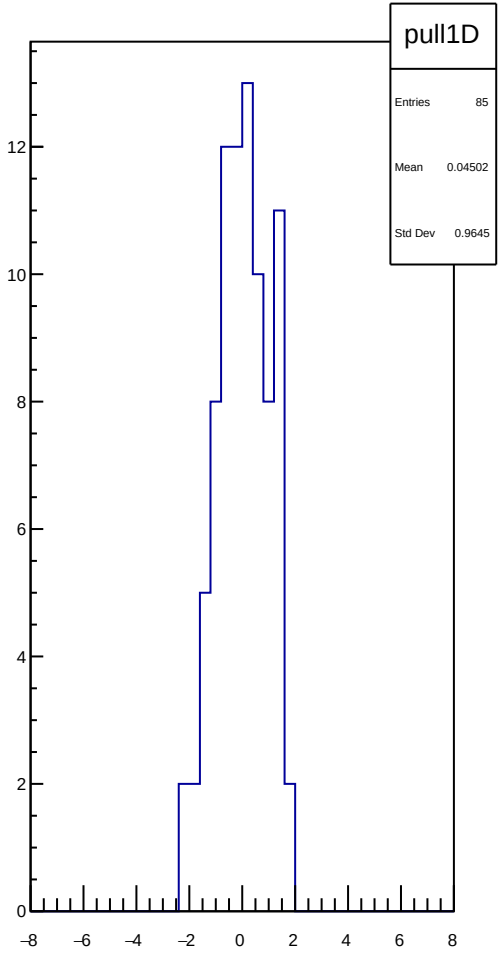

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.302e+05 / 84
p0 8.649e−11 ± 1.021e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

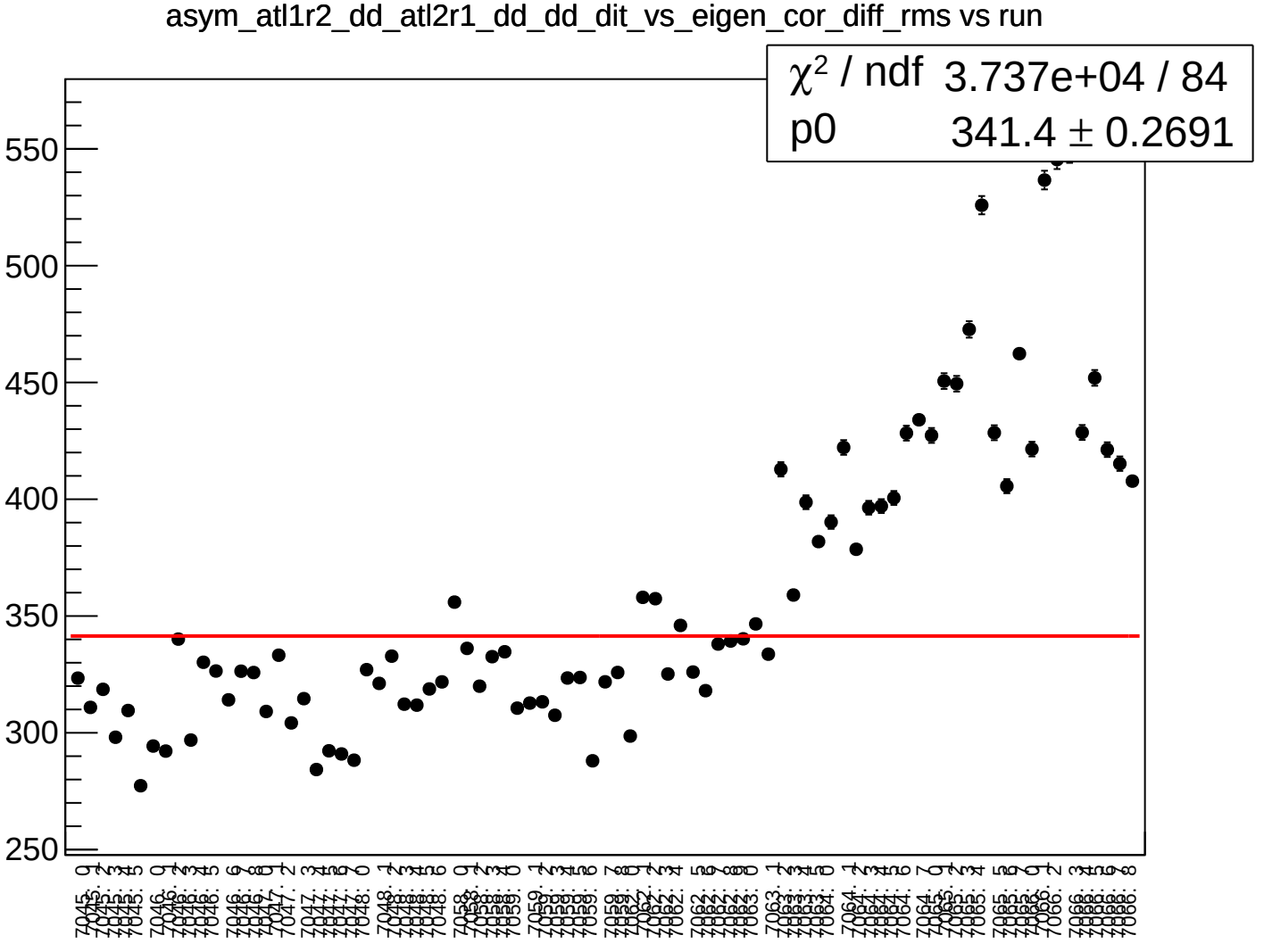

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

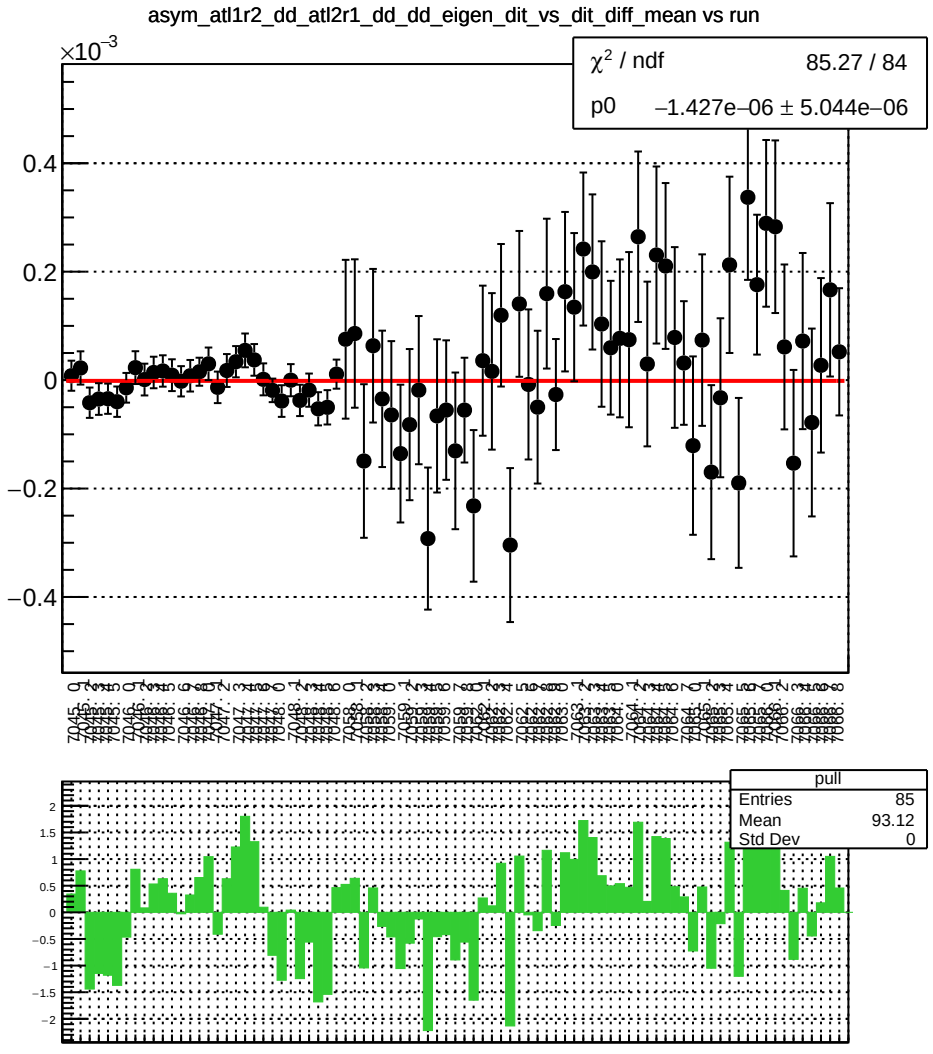

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

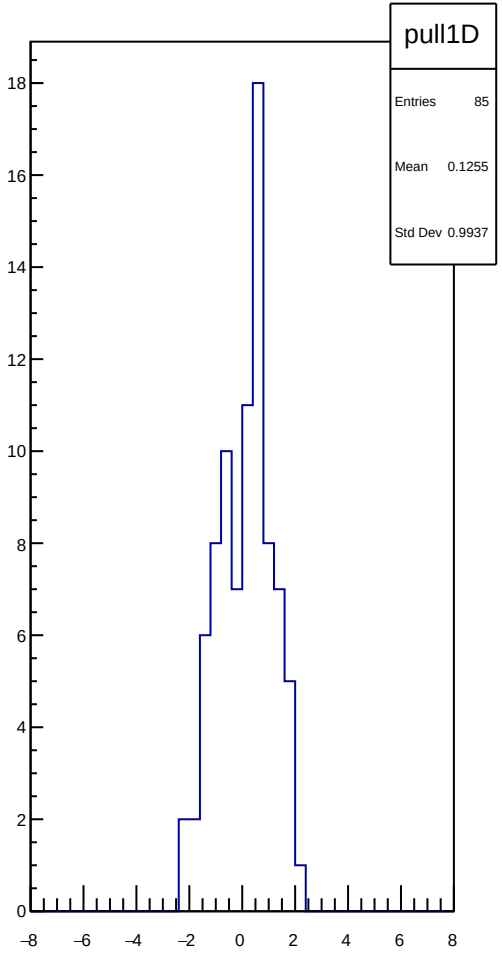

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.737e+04 / 84
p0 341.4 ± 0.2691
550
500
450
400
350
300
250

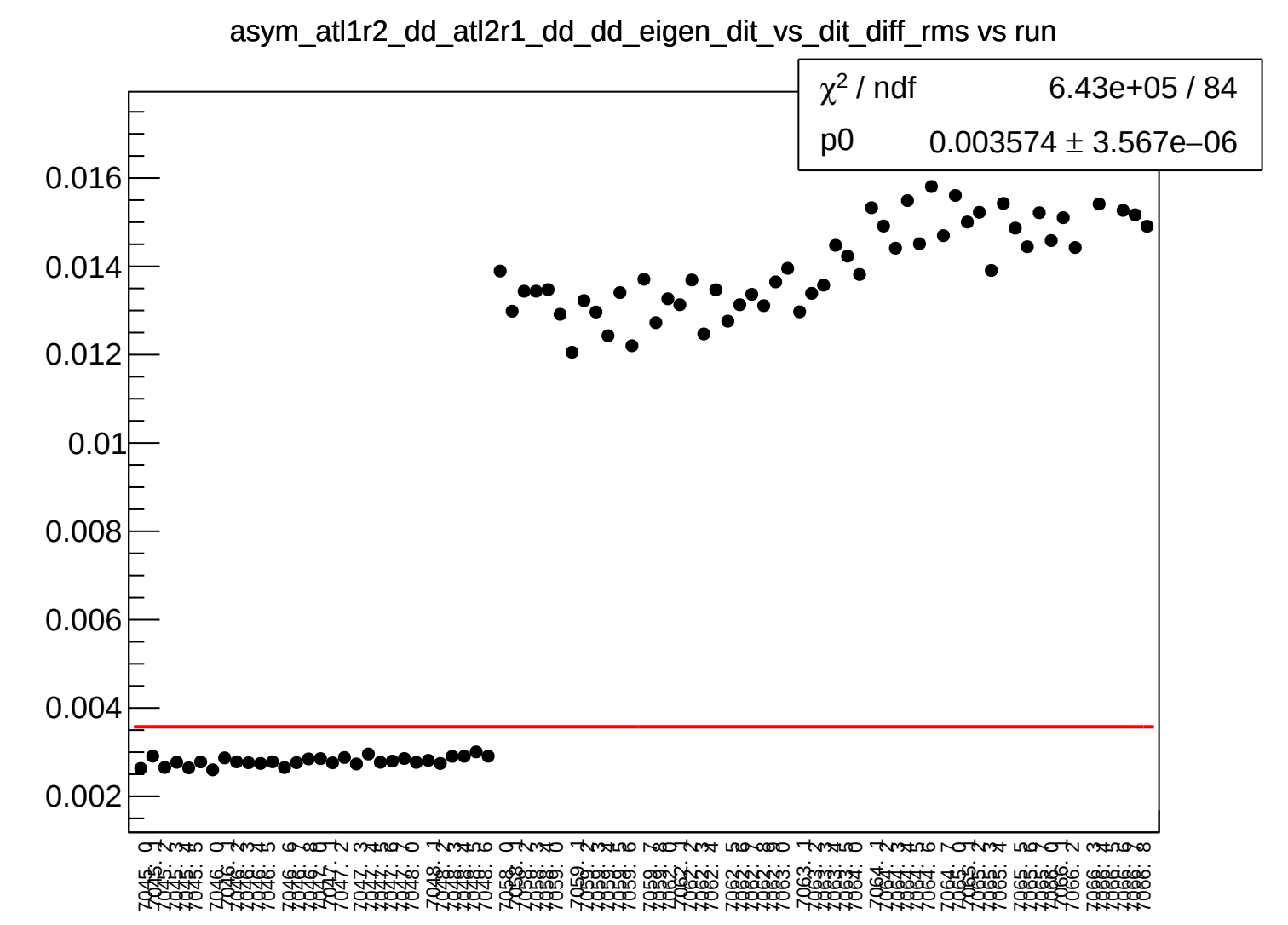

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

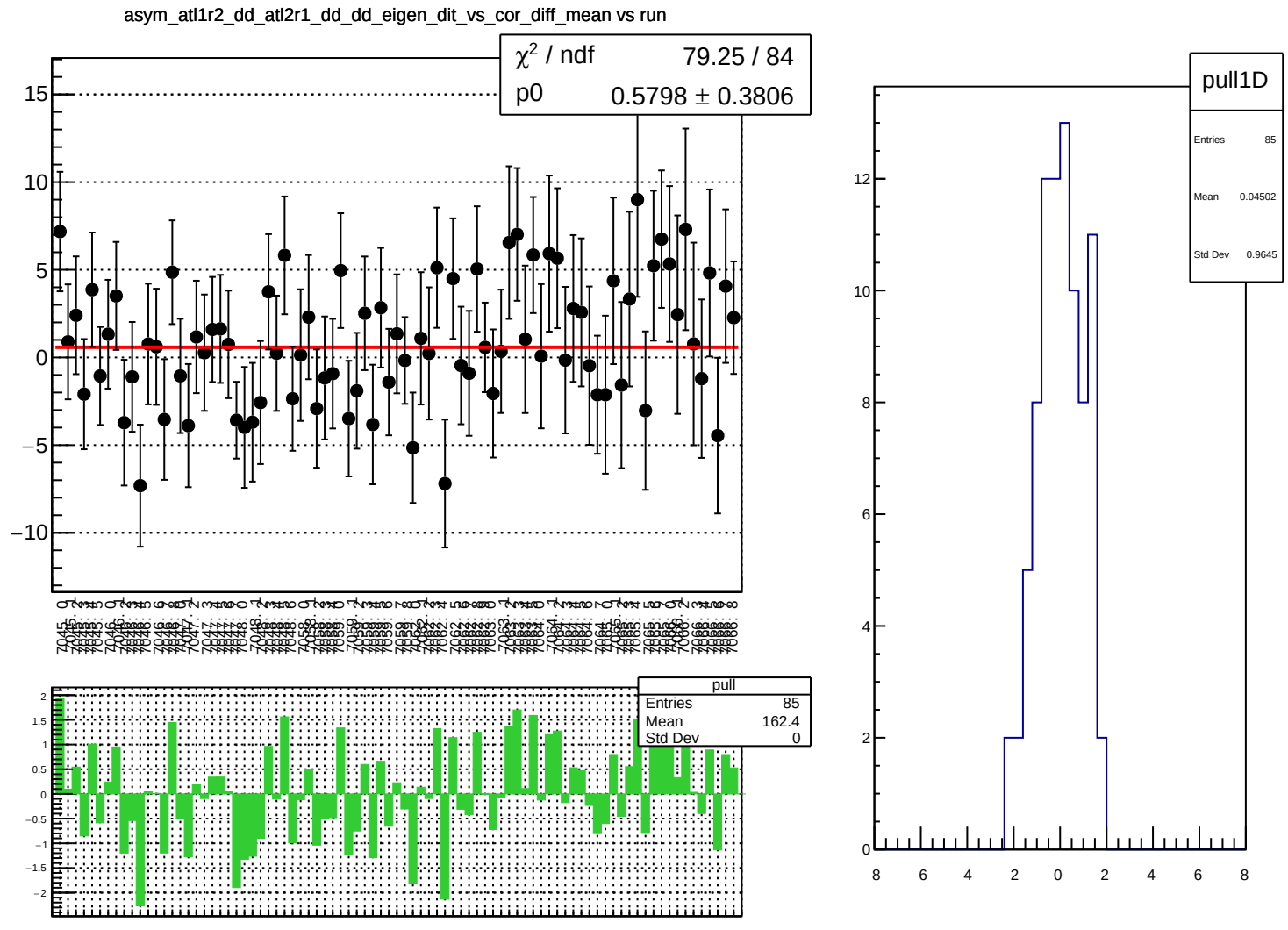

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

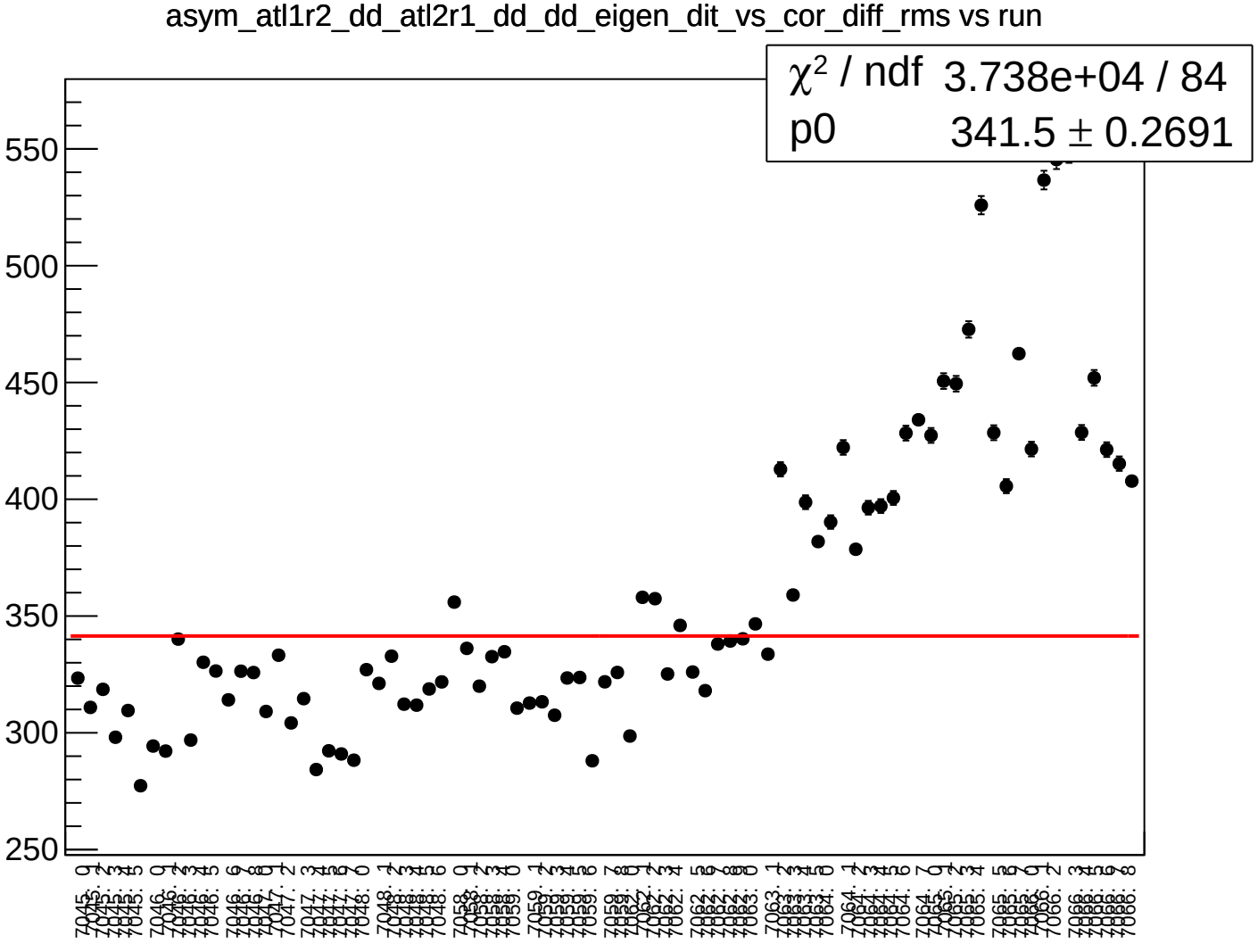

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.737e+04 / 84
p0 341.4 ± 0.2691
550
500
450
400
350
300
250

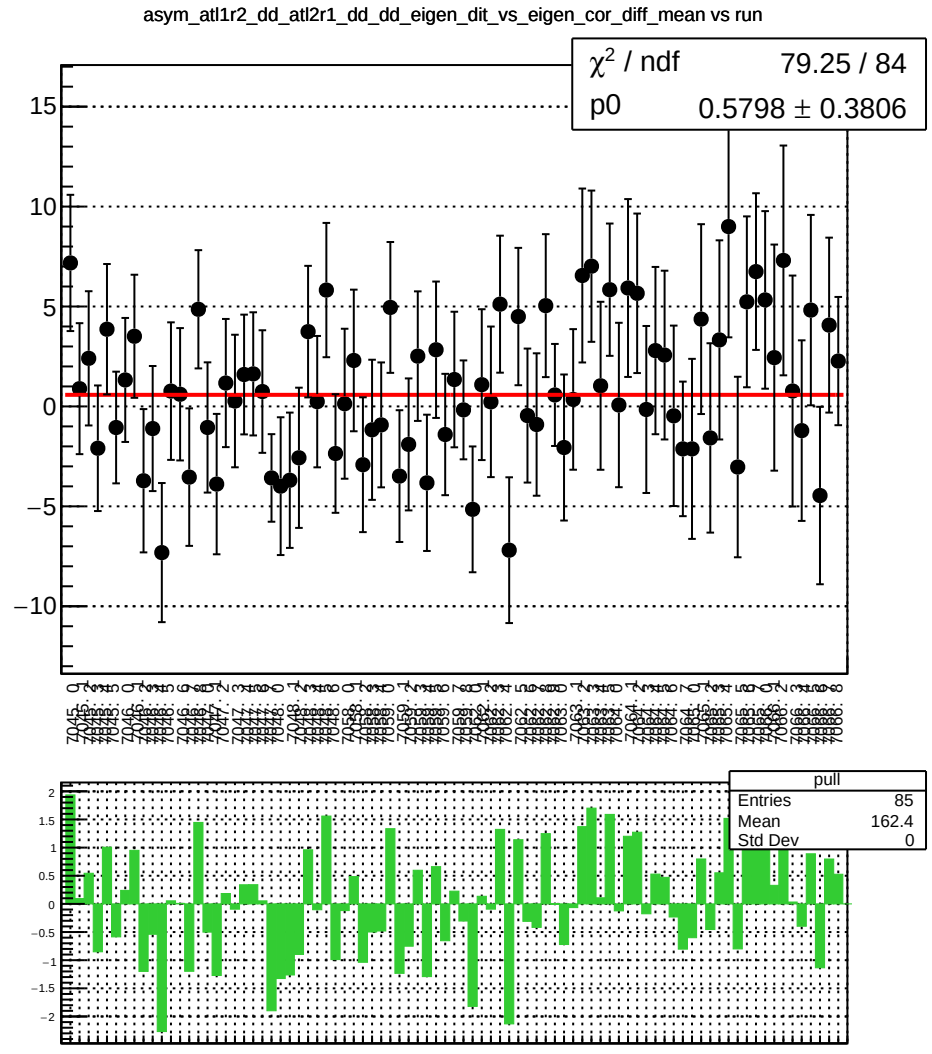

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.27 / 84
p0 −1.427e−06 ± 5.044e−06
pull
Entries 85
Mean 93.12
Std Dev 0

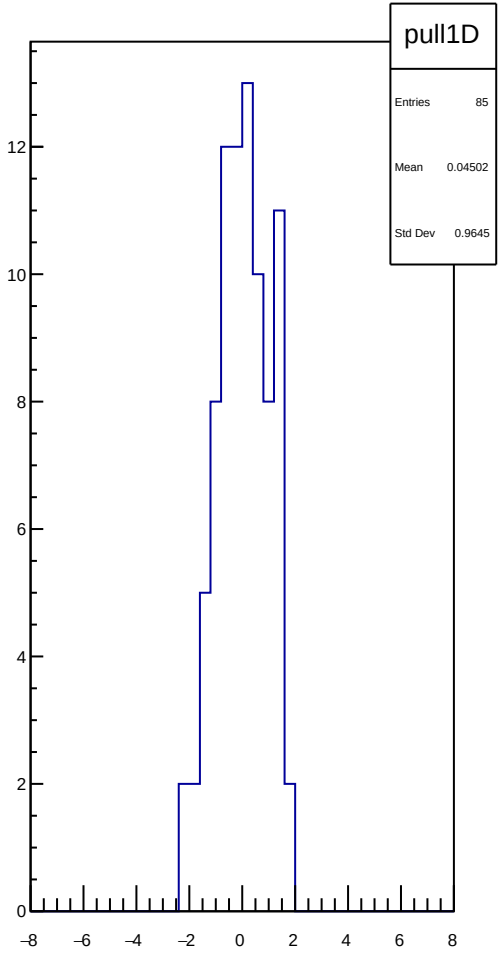

pull1D
Entries 85
Mean 0.1255
Std Dev 0.9937

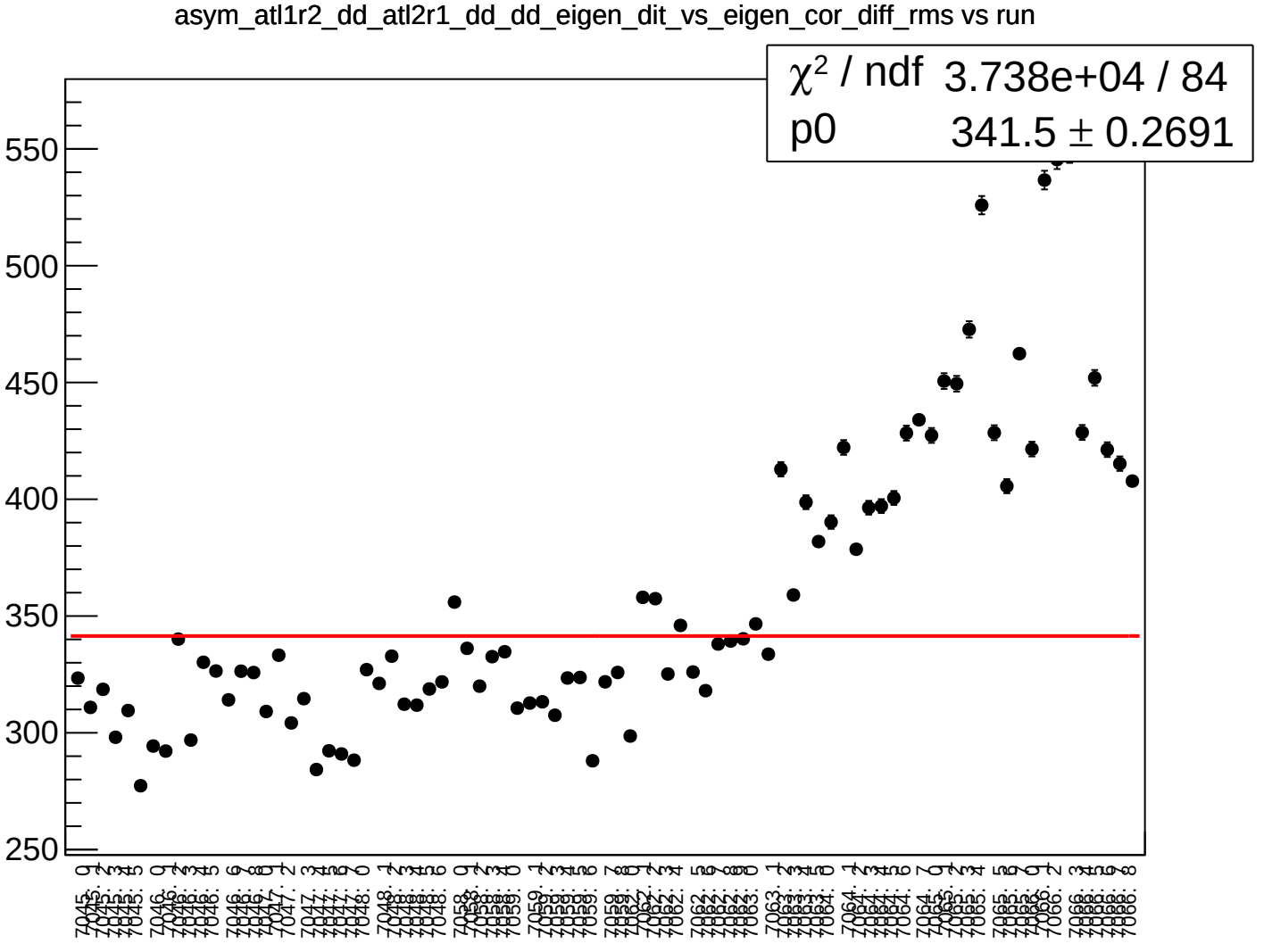

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.43e+05 / 84
p0 0.003574 ± 3.567e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

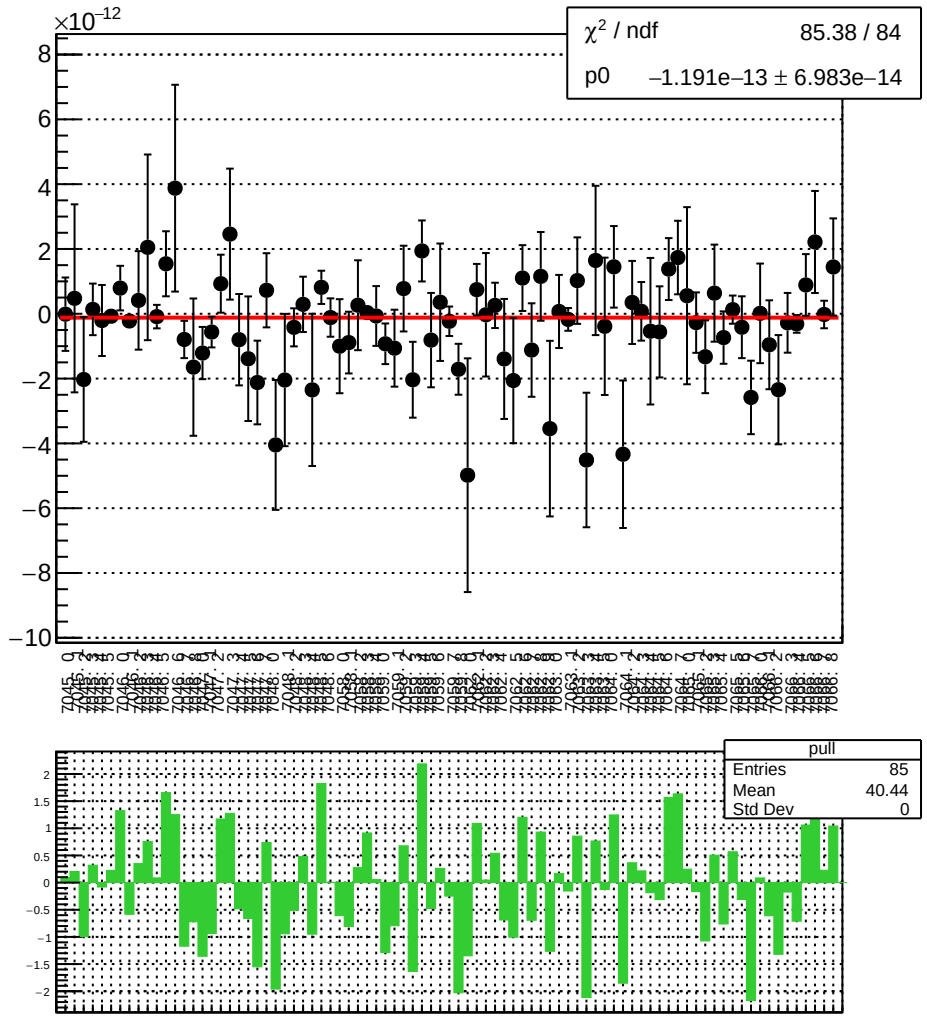

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0
pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

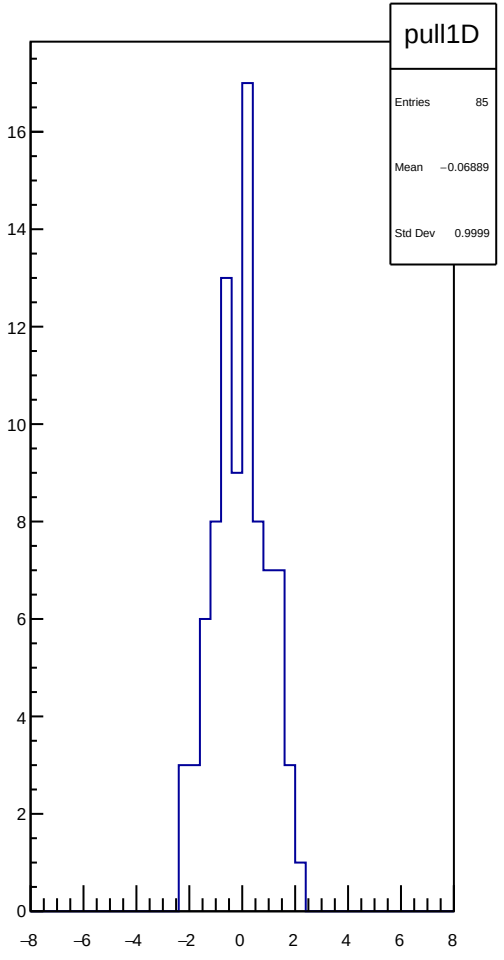

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.738e+04 / 84
p0 341.5 ± 0.2691
550
500
450
400
350
300
250

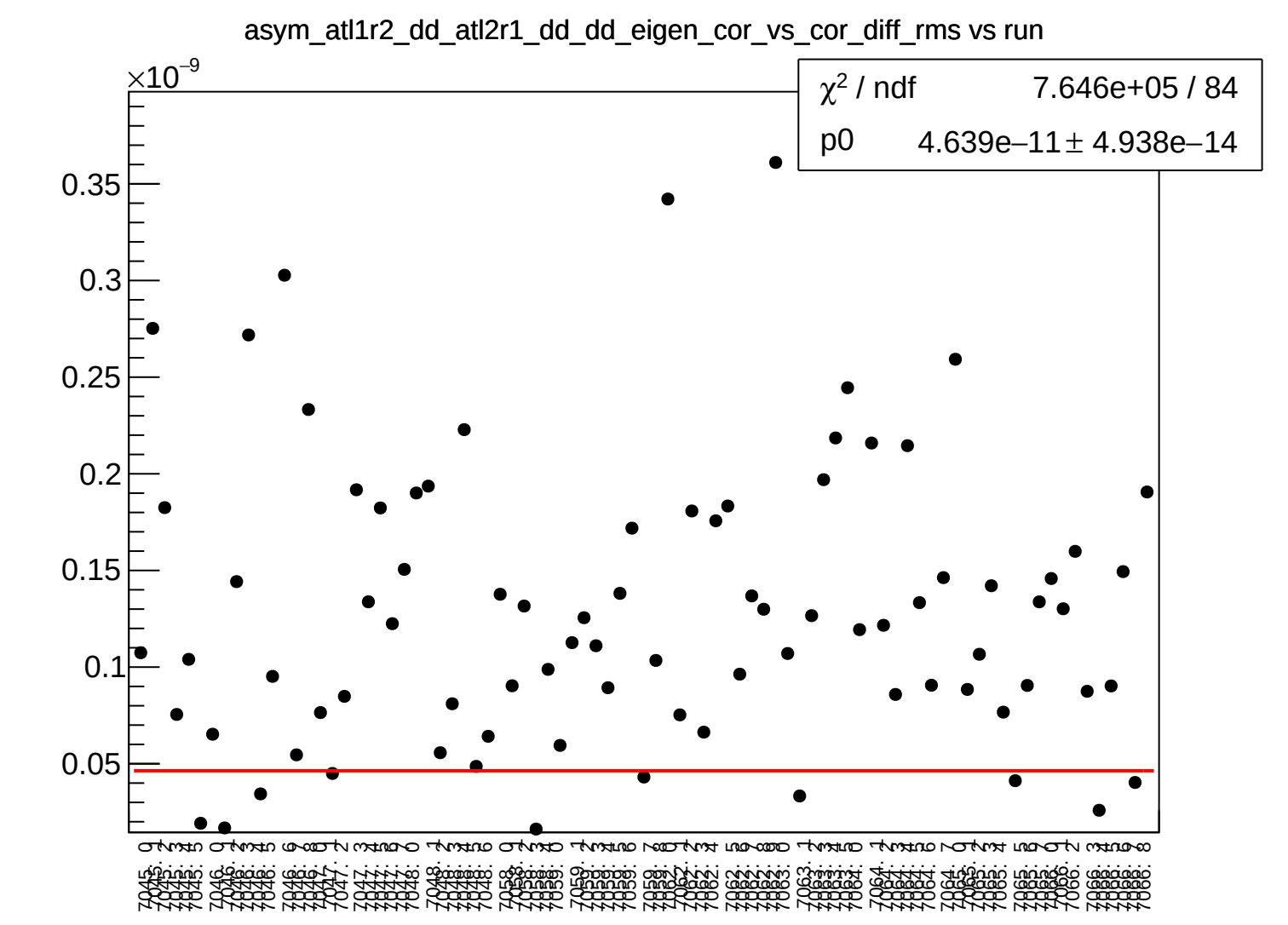

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.5798 ± 0.3806
pull
Entries 85
Mean 162.4
Std Dev 0

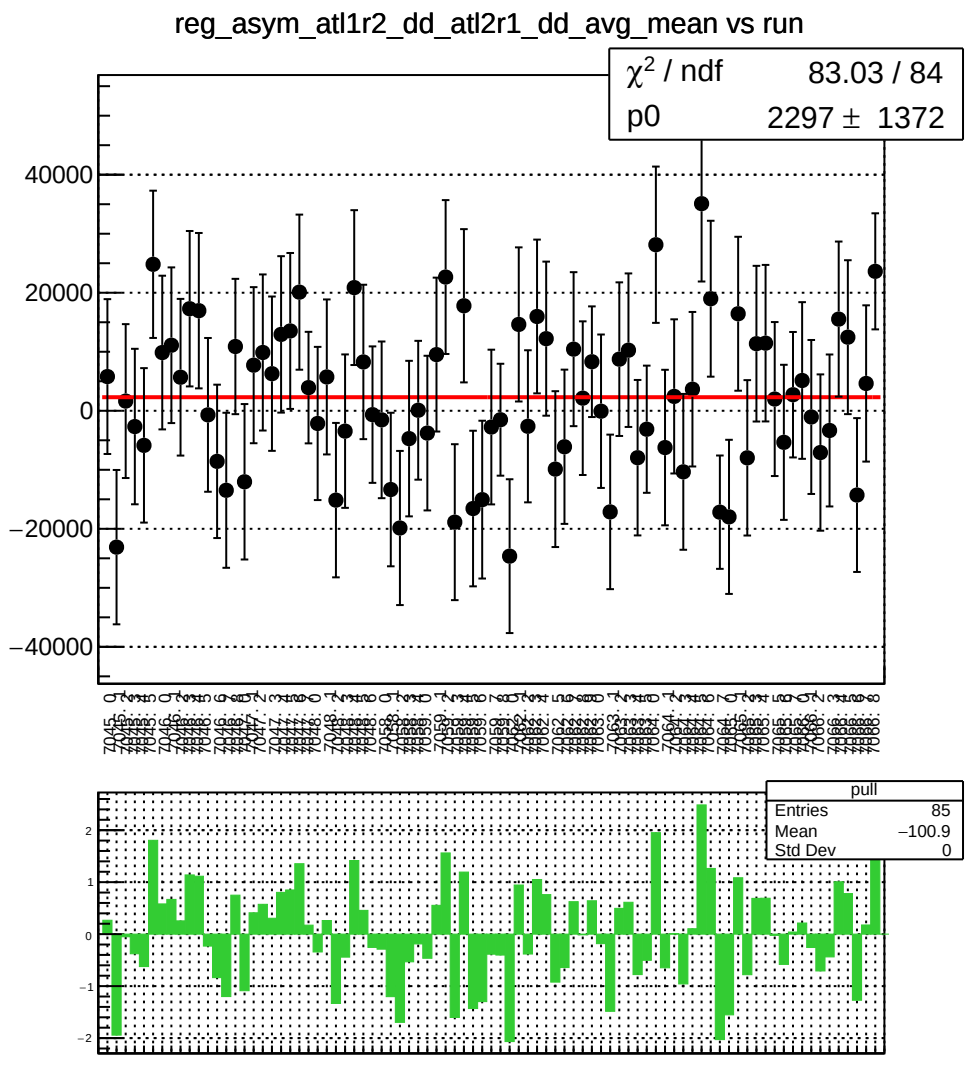

pull1D
Entries 85
Mean 0.04502
Std Dev 0.9645

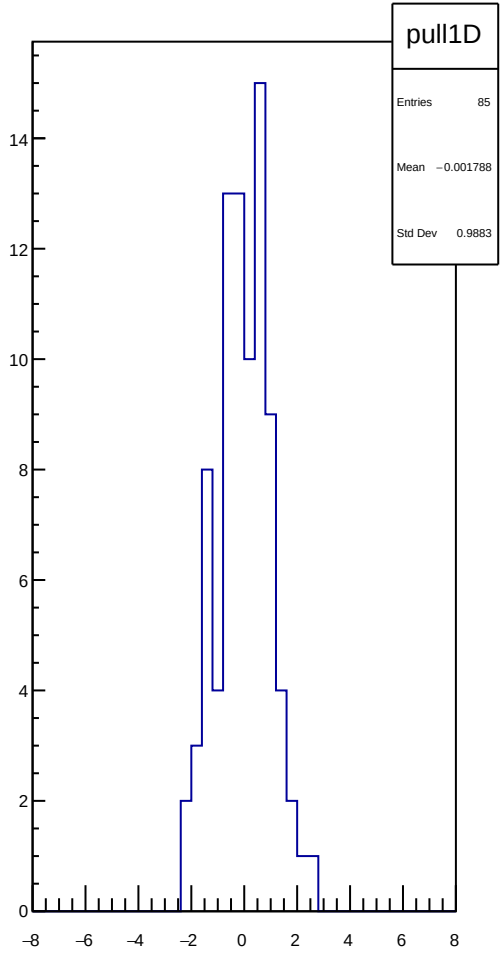

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.738e+04 / 84
p0 341.5 ± 0.2691
550
500
450
400
350
300
250

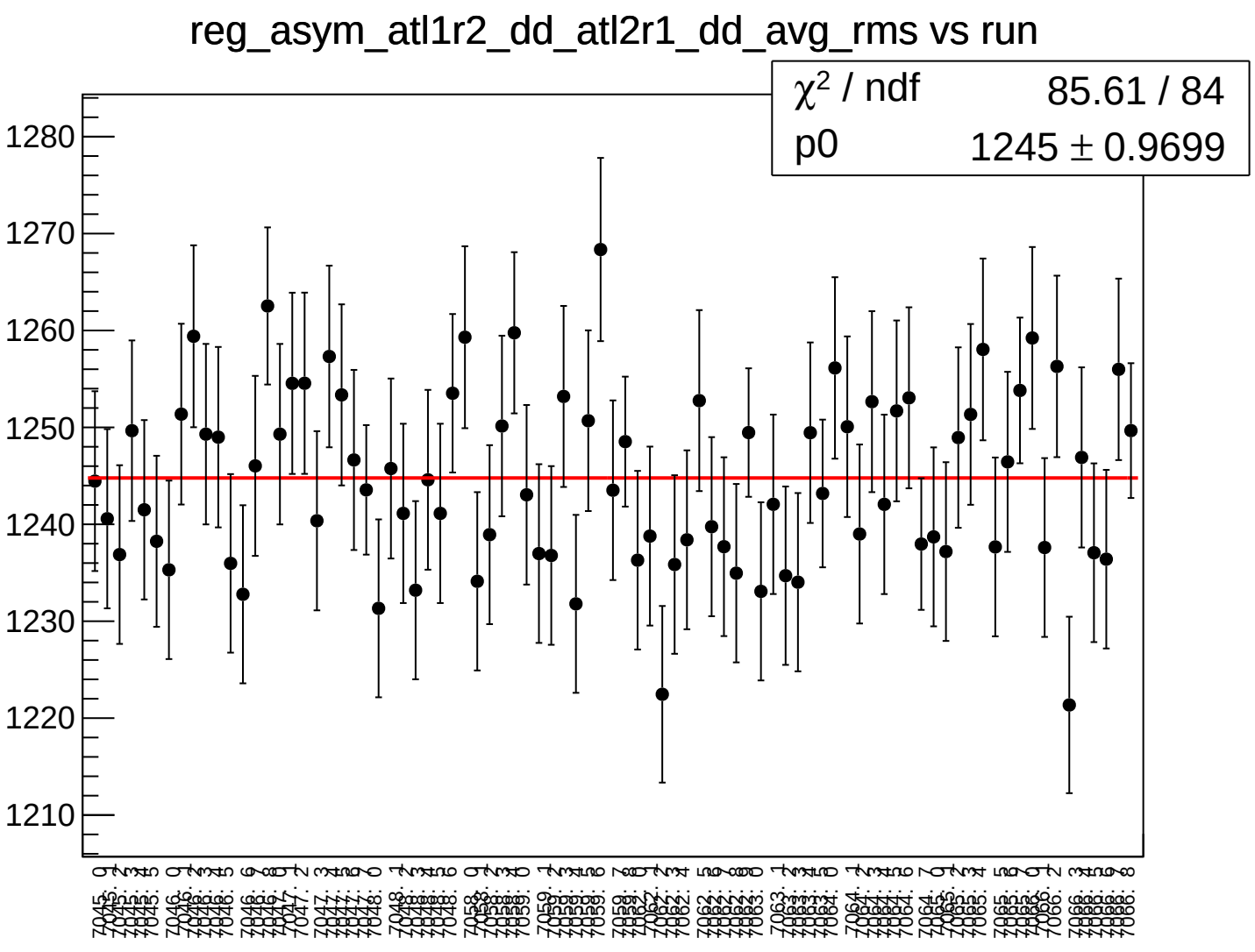

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 85.38 / 84
p0 −1.191e−13 ± 6.983e−14
pull
Entries 85
Mean 40.44
Std Dev 0

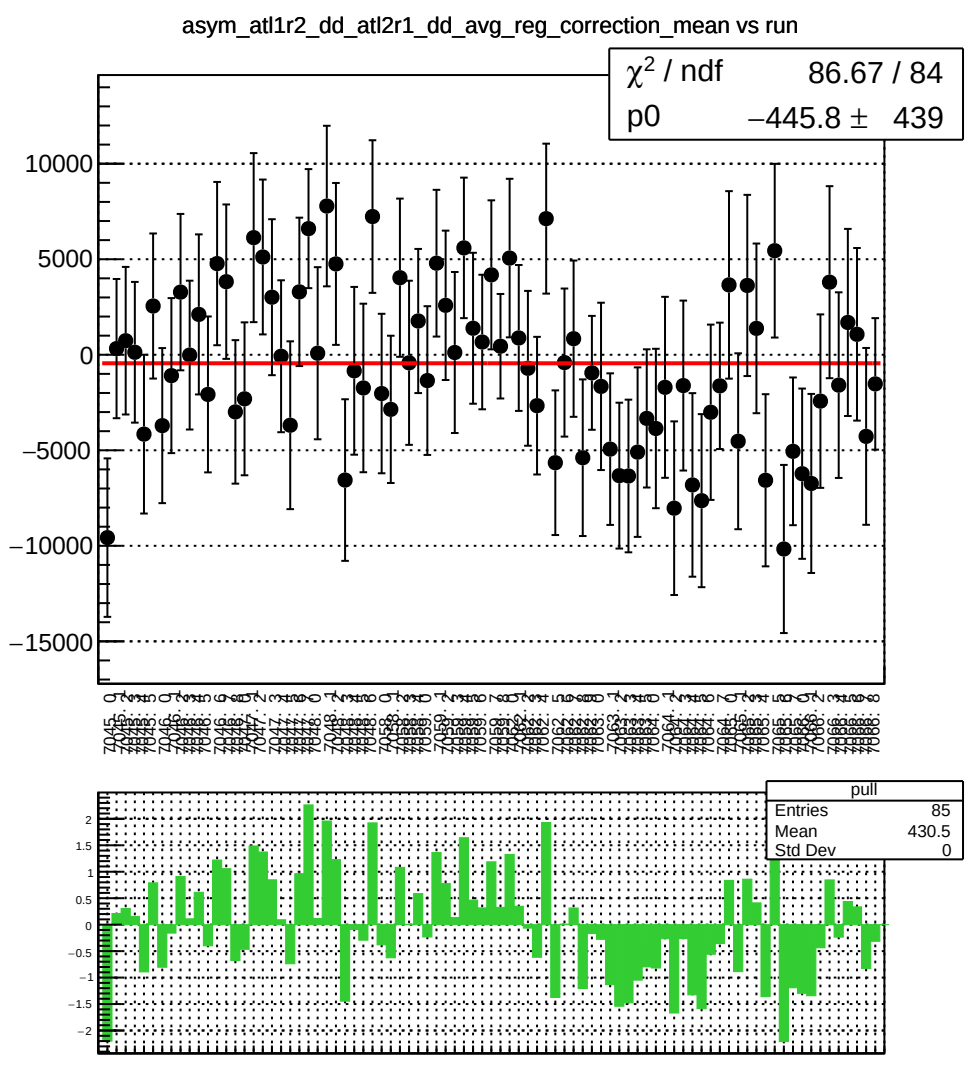

pull1D
Entries 85
Mean −0.06889
Std Dev 0.9999

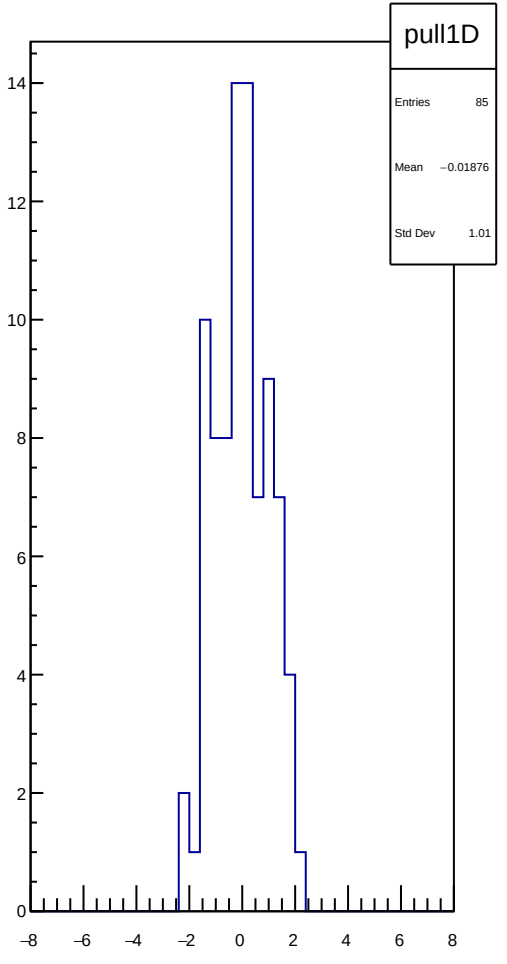

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.646e+05 / 84
p0 4.639e−11 ± 4.938e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

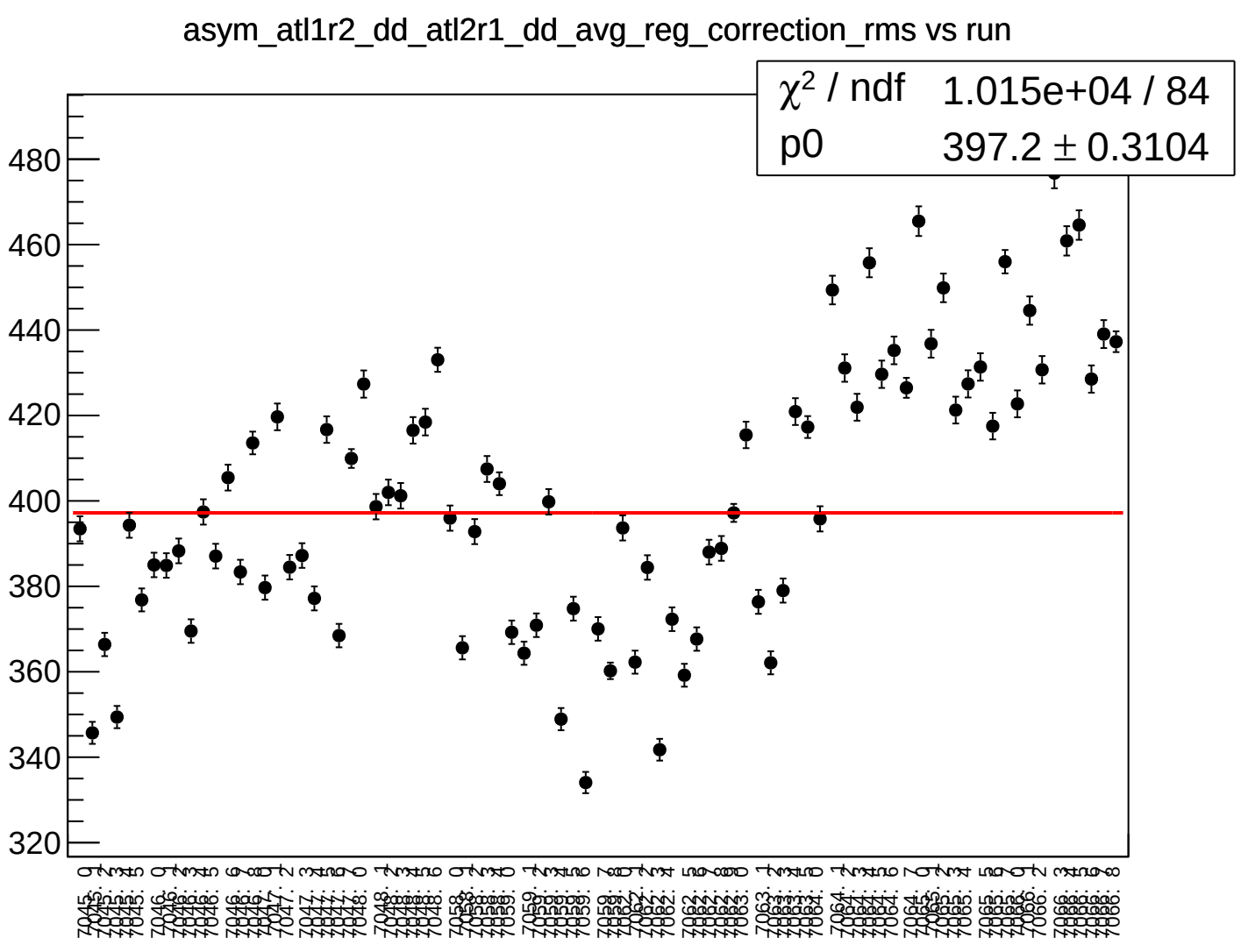

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.03 / 84
p0 2297 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −100.9
Std Dev 0
2
1
0
−1
−2

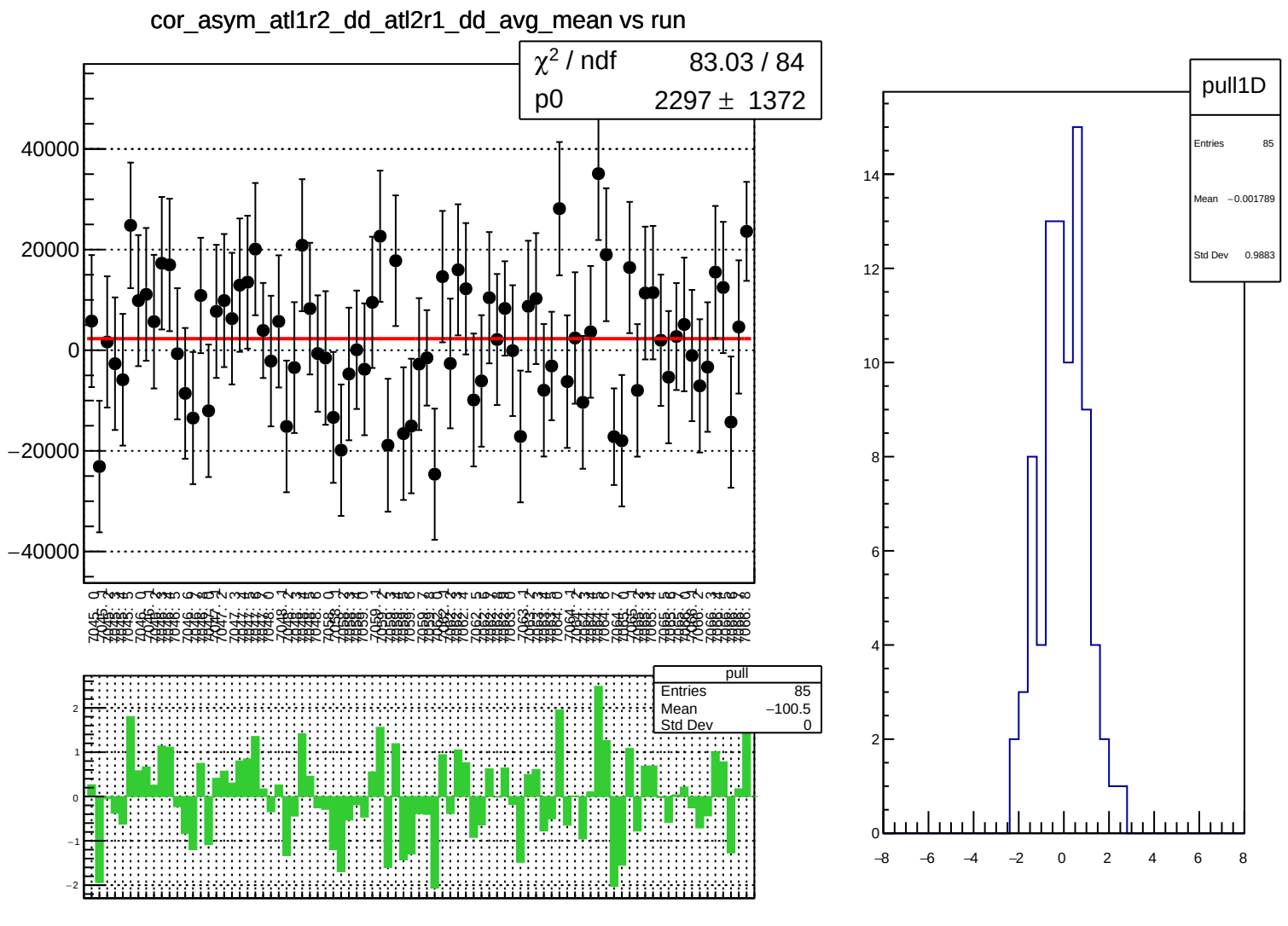

pull1D
Entries 85
Mean −0.001788
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

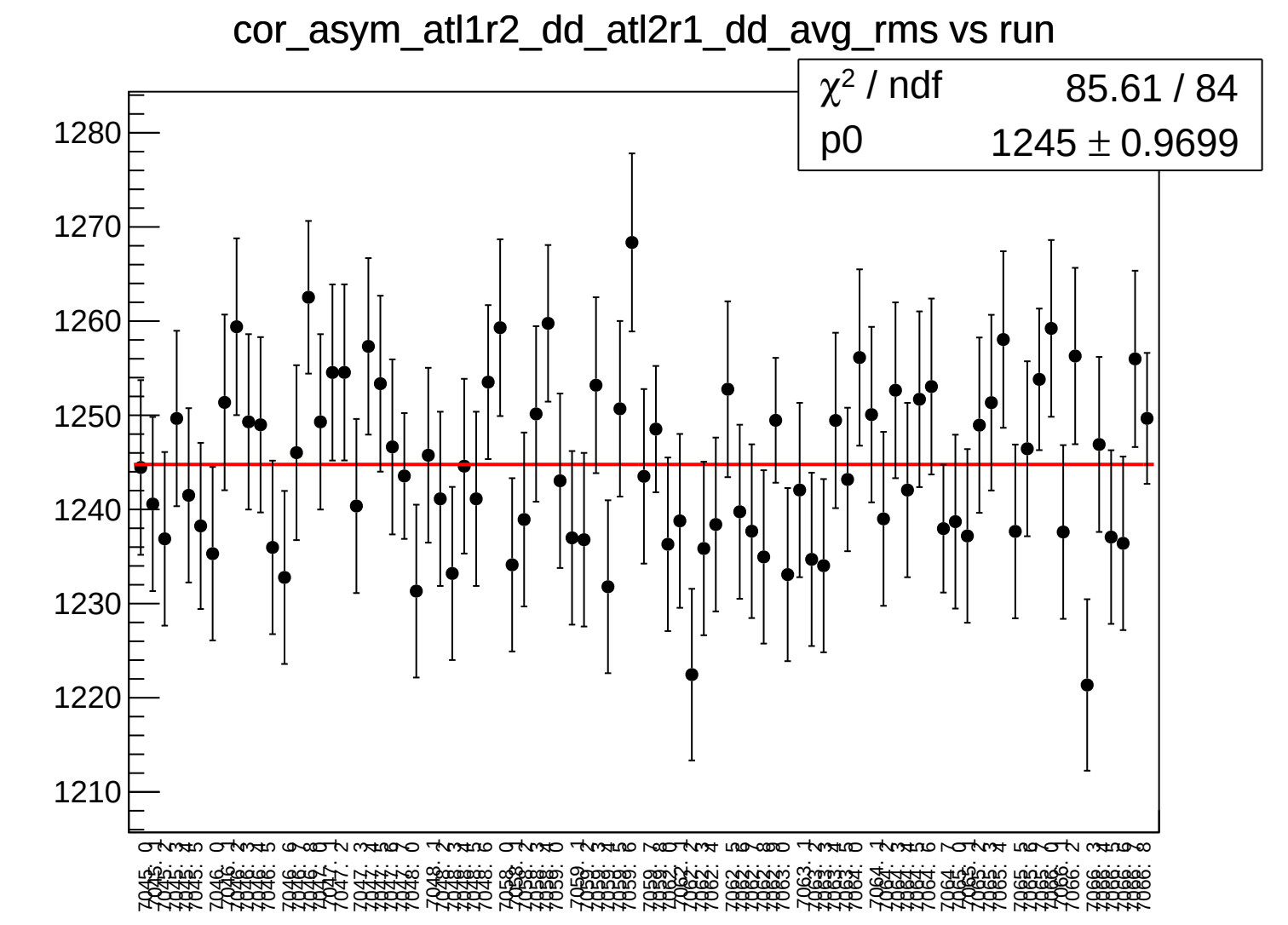

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 85.61 / 84
p0 1245 ± 0.9699
1280
1270
1260
1250
1240
1230
1220
1210

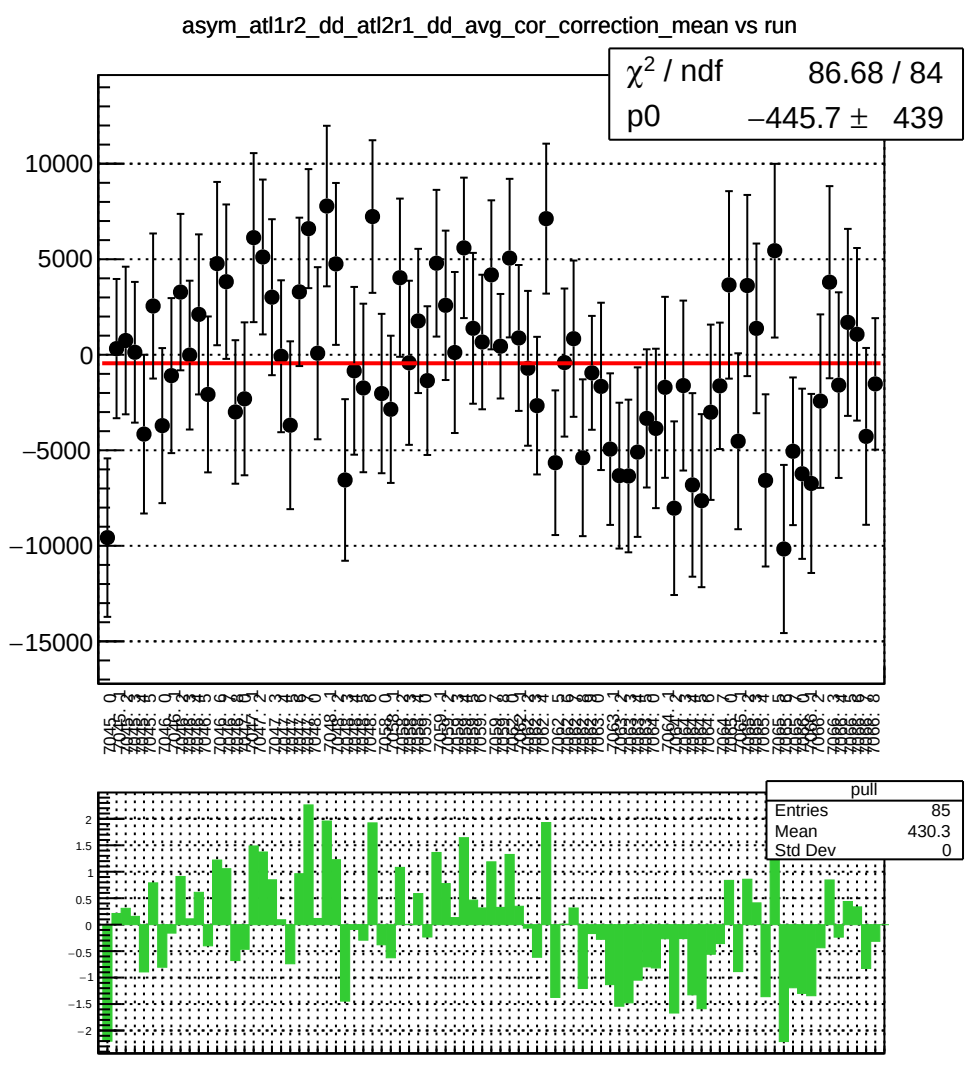

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 86.67 / 84
p0 −445.8 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 430.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

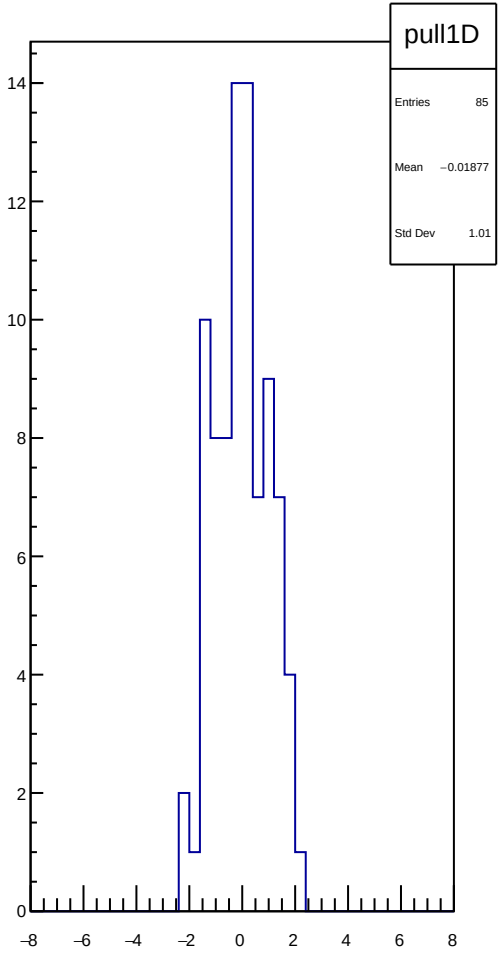

pull1D
Entries 85
Mean −0.01876
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 397.2 ± 0.3104
480
460
440
420
400
380
360
340
320


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.03 / 84
p0 2297 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −100.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.001789
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 85.61 / 84
p0 1245 ± 0.9699
1280
1270
1260
1250
1240
1230
1220
1210


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 86.68 / 84
p0 −445.7 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 430.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean −0.01877
Std Dev 1.01
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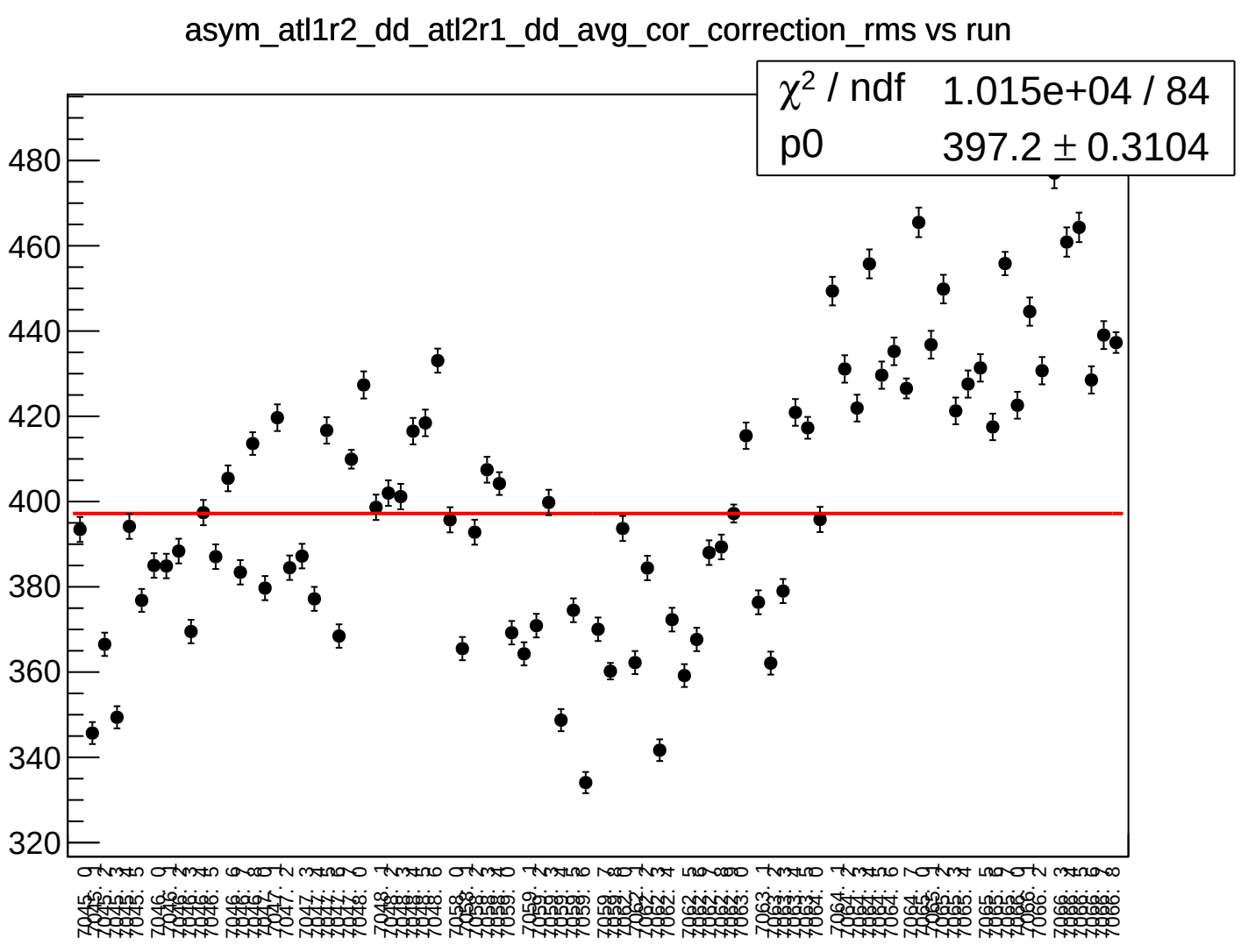
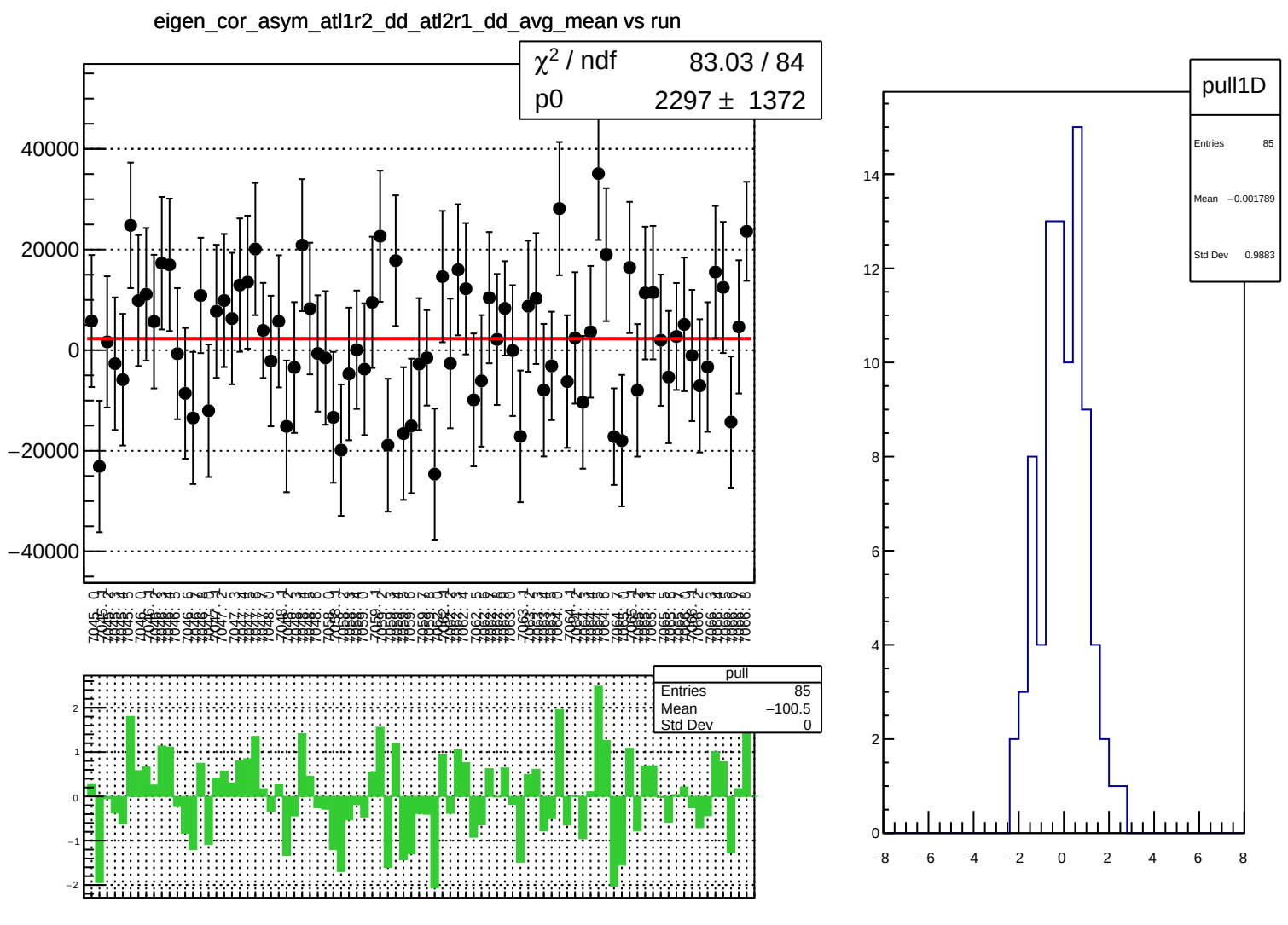
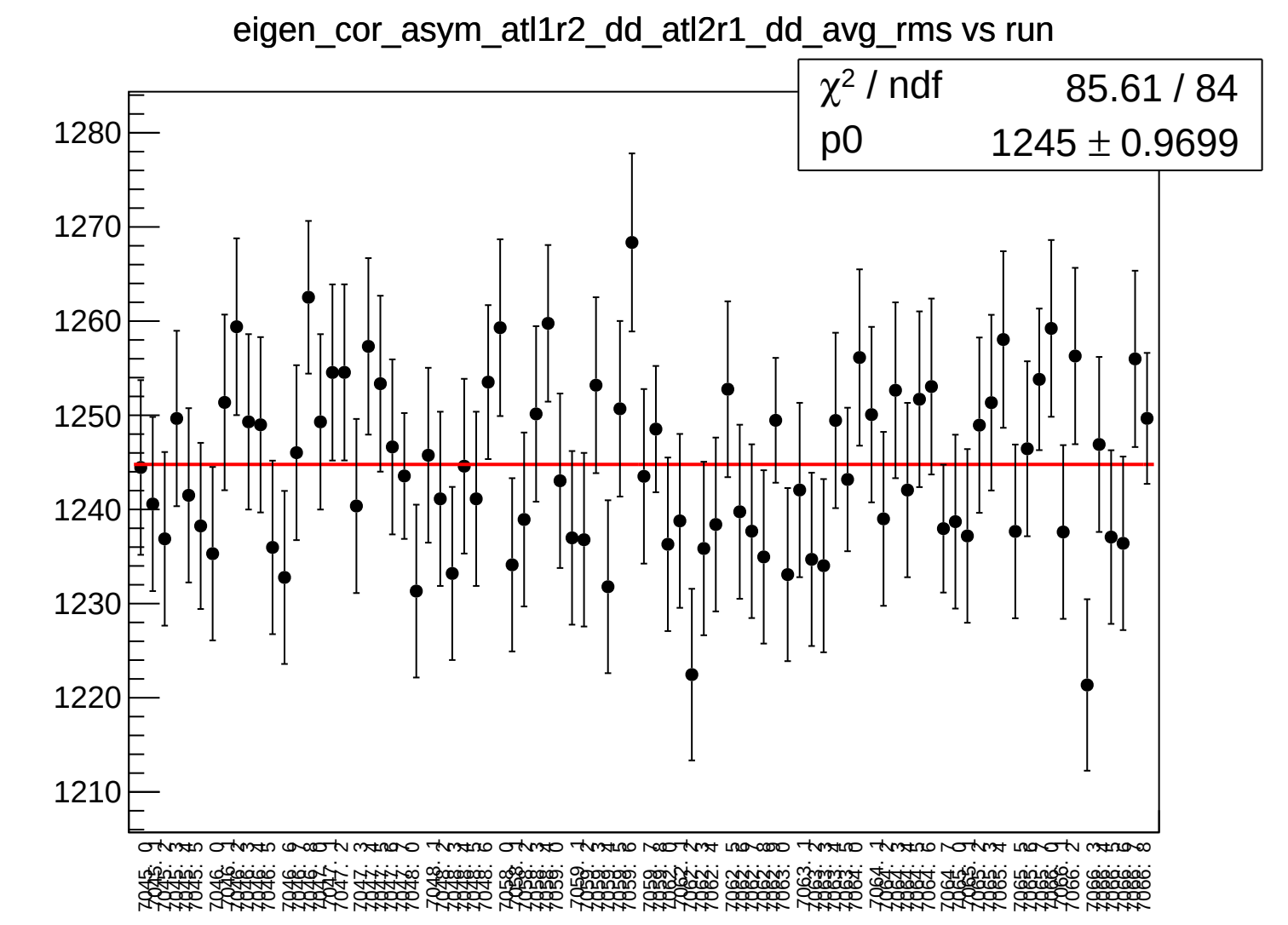
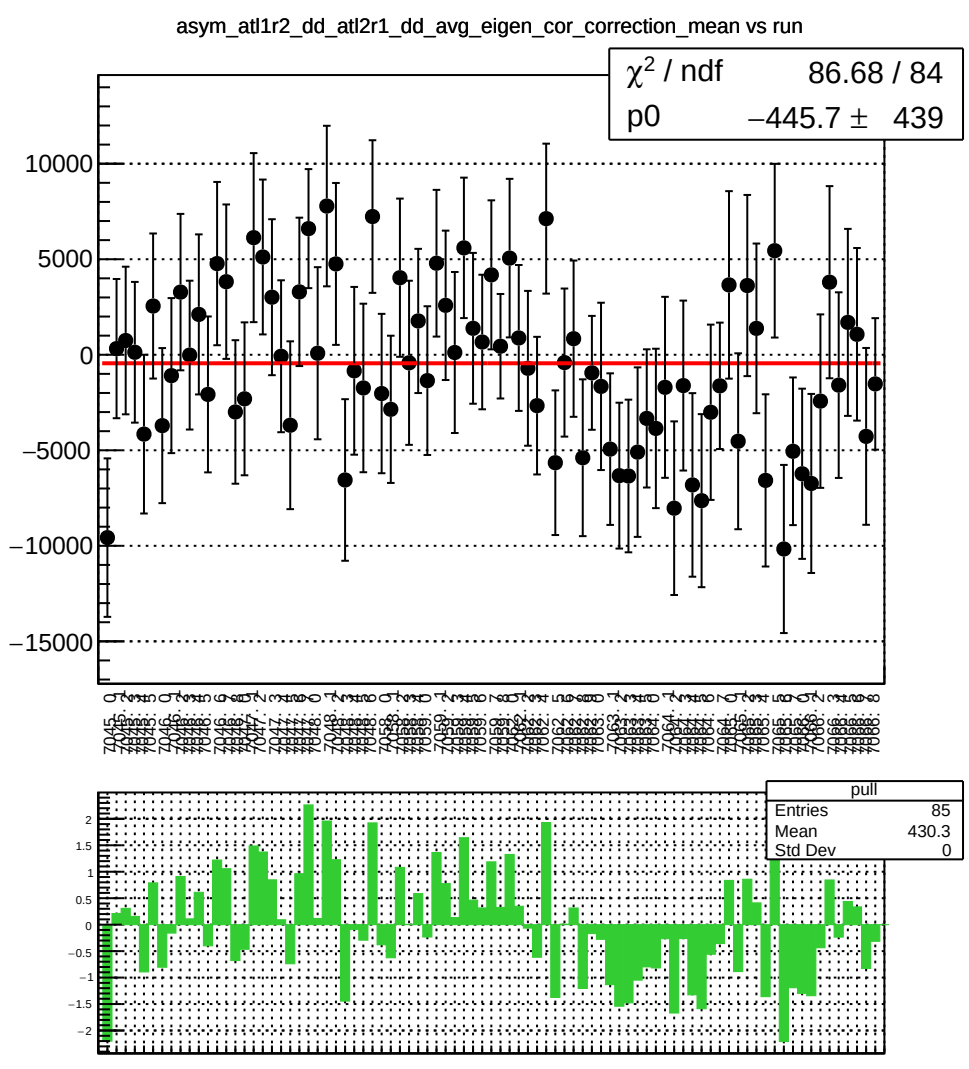
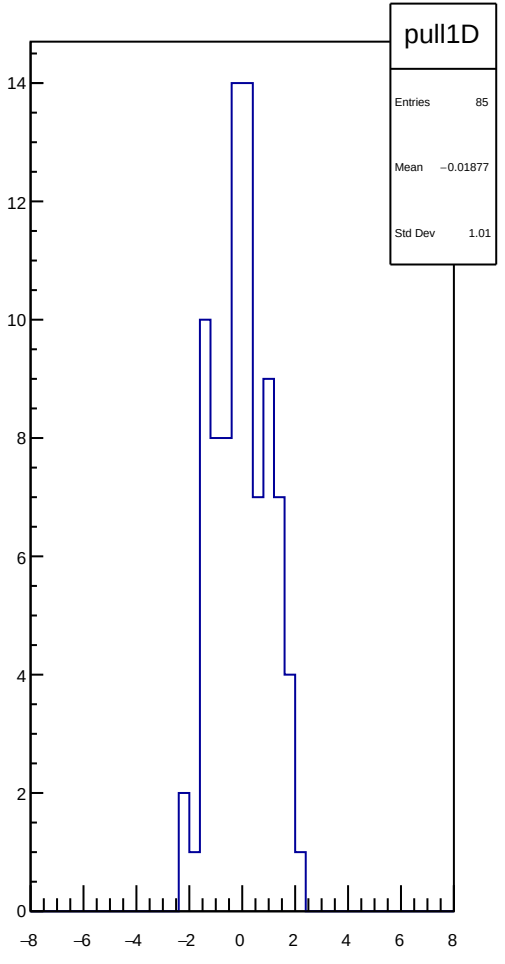
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 397.2 ± 0.3104
480
460
440
420
400
380
360
340
320


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.03 / 84
p0 2297 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −100.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.001789
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 85.61 / 84
p0 1245 ± 0.9699
1280
1270
1260
1250
1240
1230
1220
1210


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.68 / 84
p0 −445.7 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 430.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean −0.01877
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
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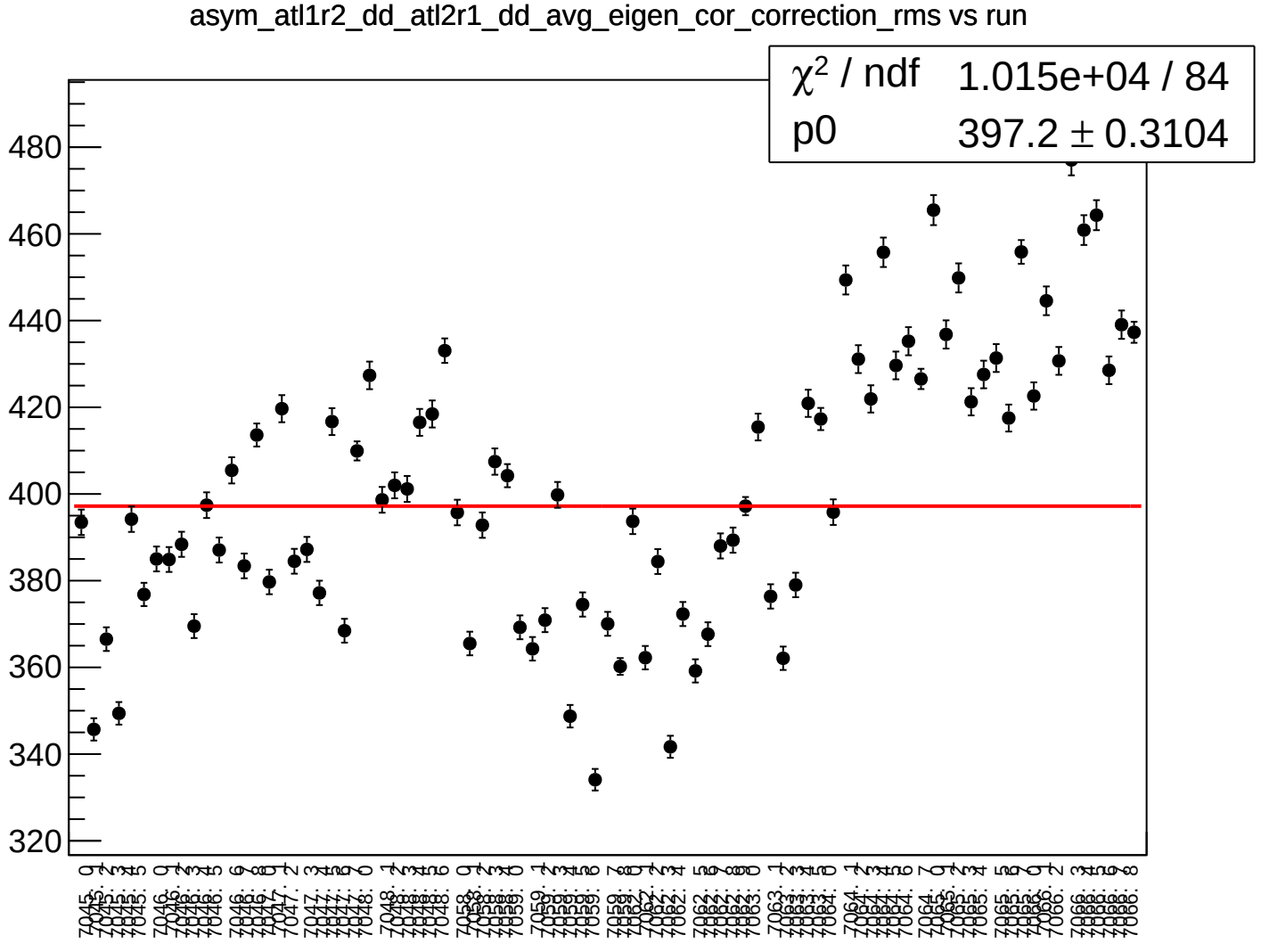
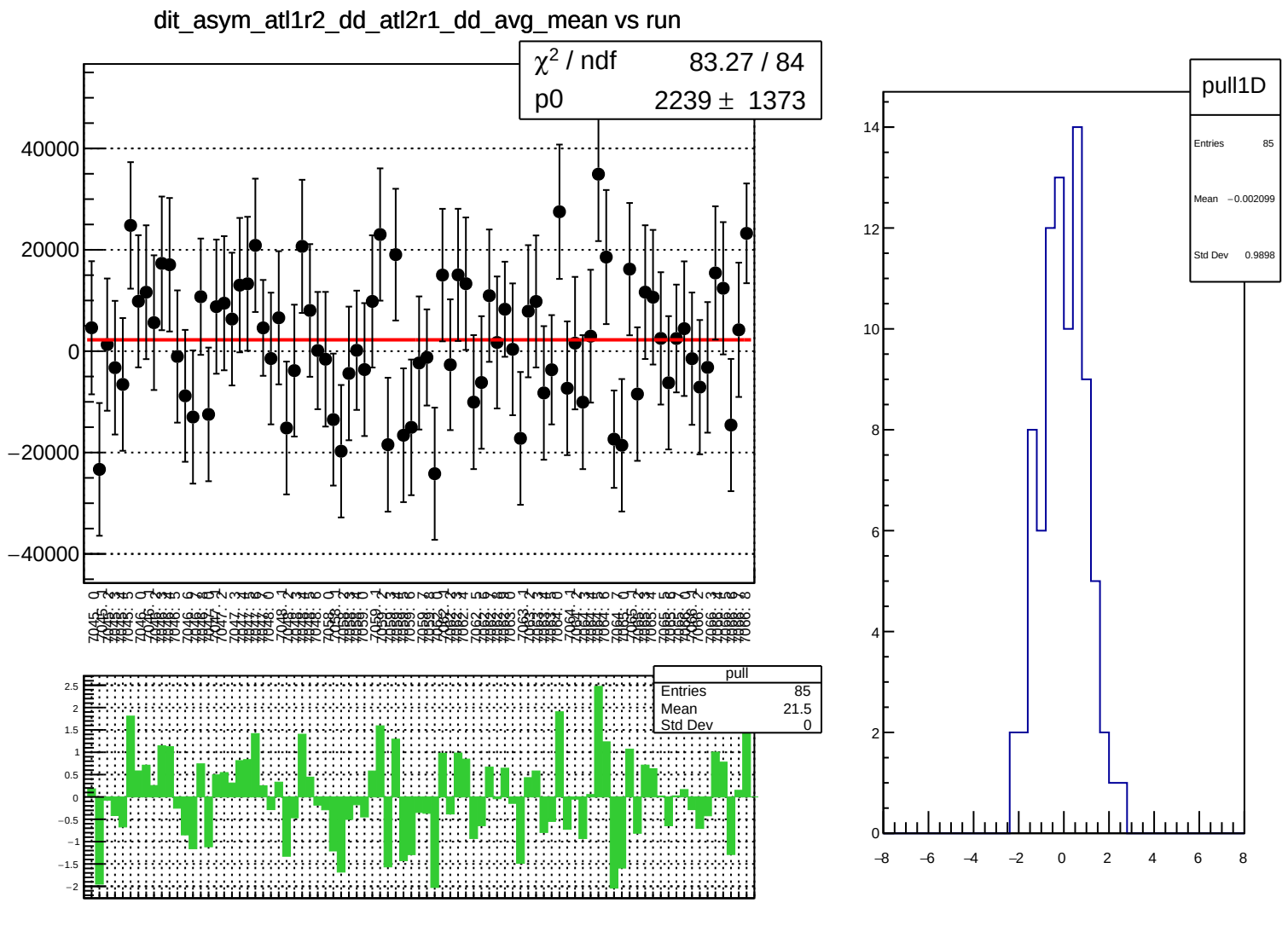
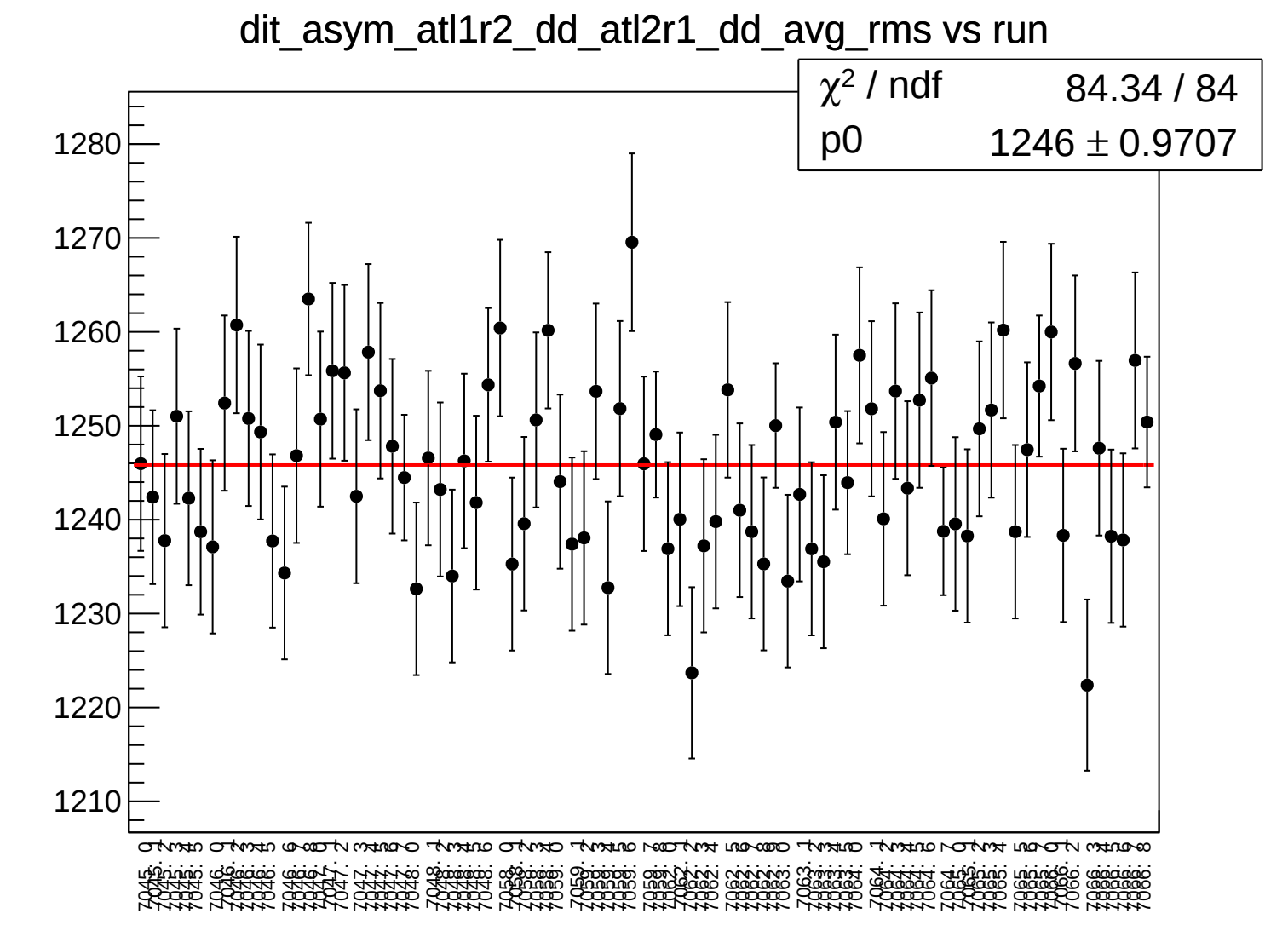
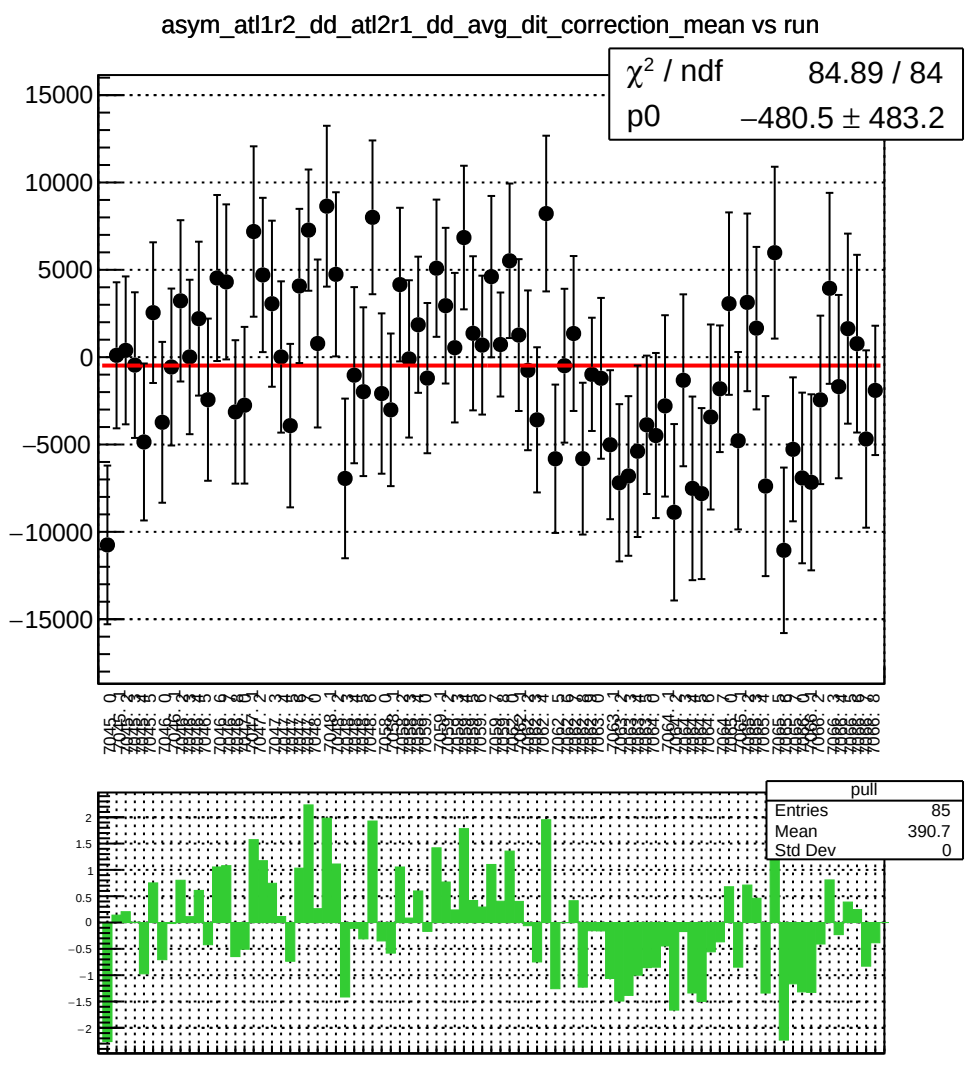
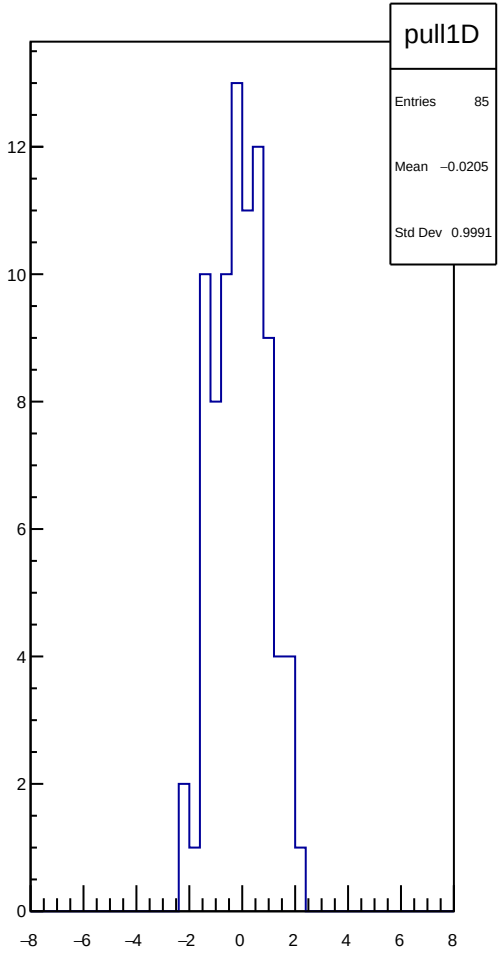
0
2
4
6
8

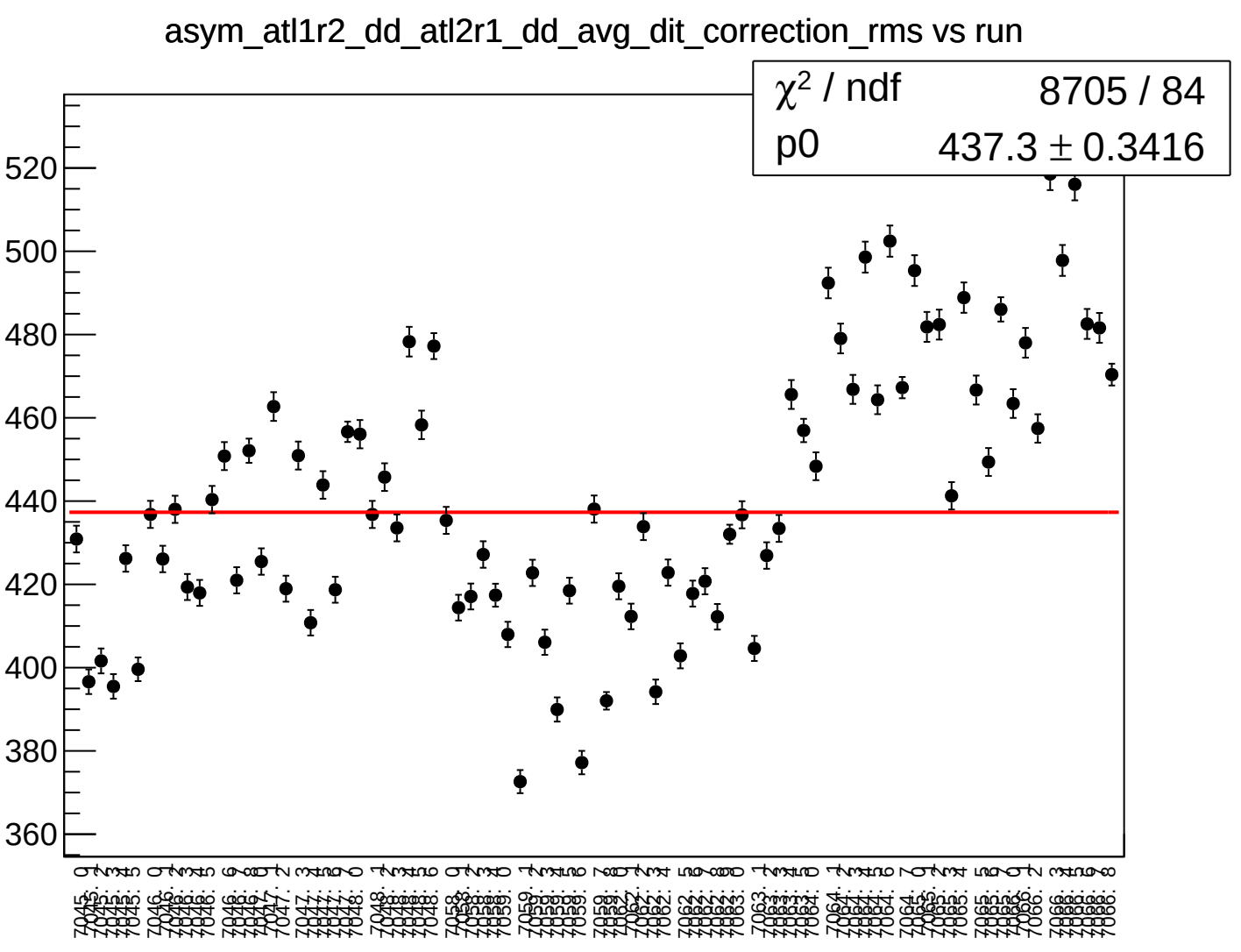

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.015e+04 / 84
p0 397.2 ± 0.3104
480
460
440
420
400
380
360
340
320

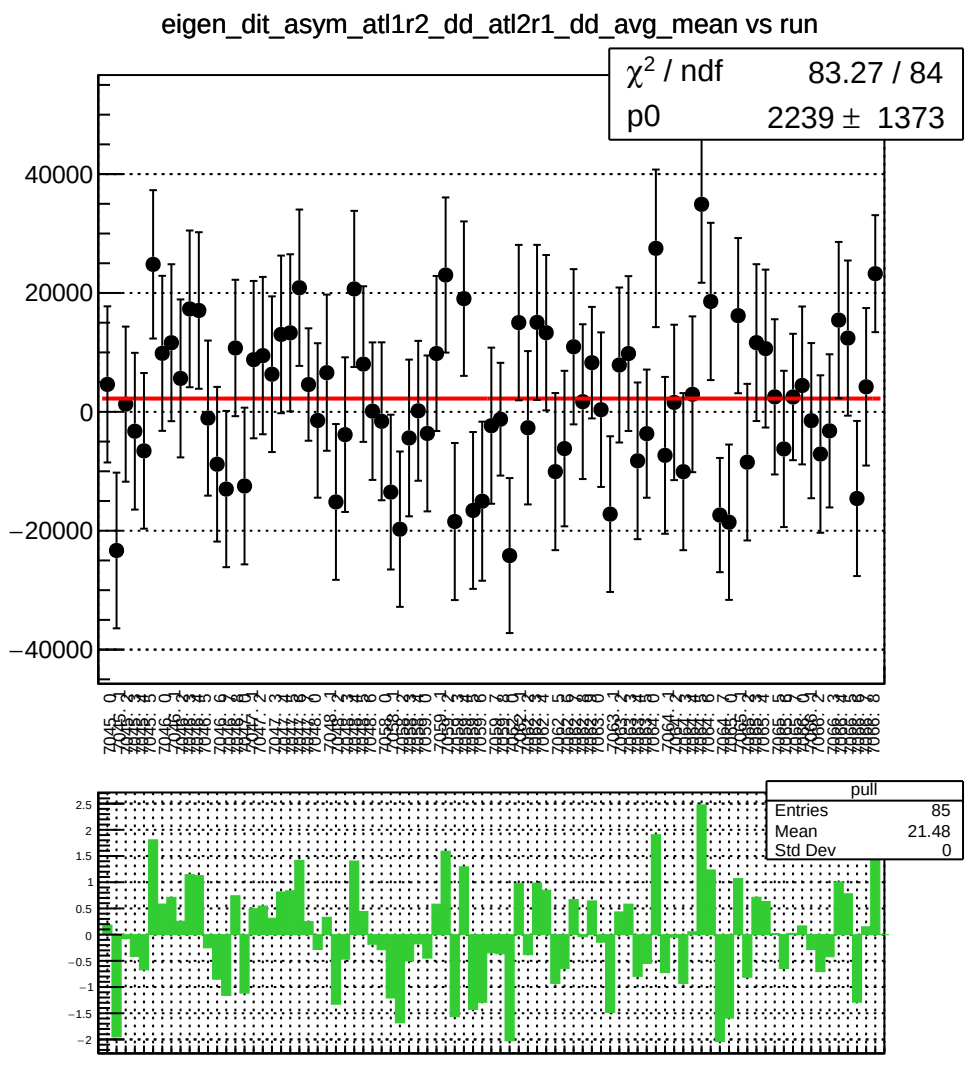

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.27 / 84
p0 2239 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 21.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.002099
Std Dev 0.9898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

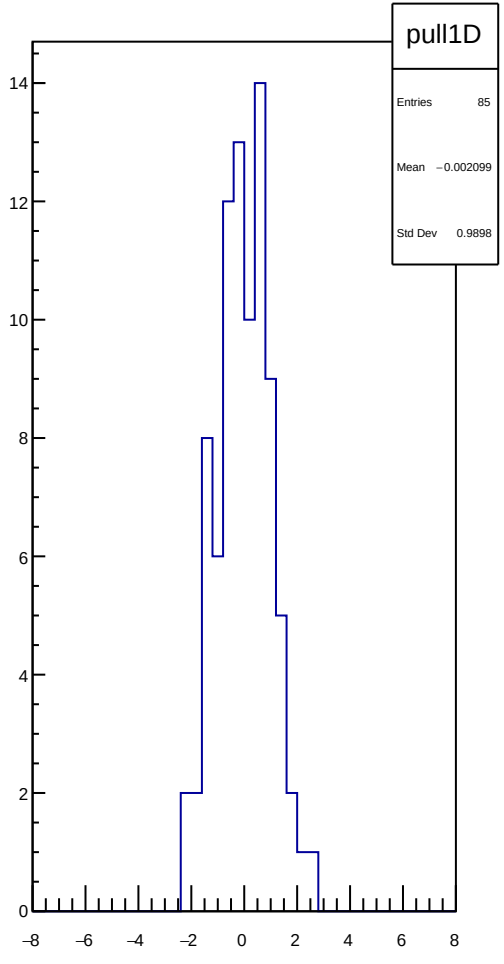

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 84.34 / 84
p0 1246 ± 0.9707
1280
1270
1260
1250
1240
1230
1220
1210

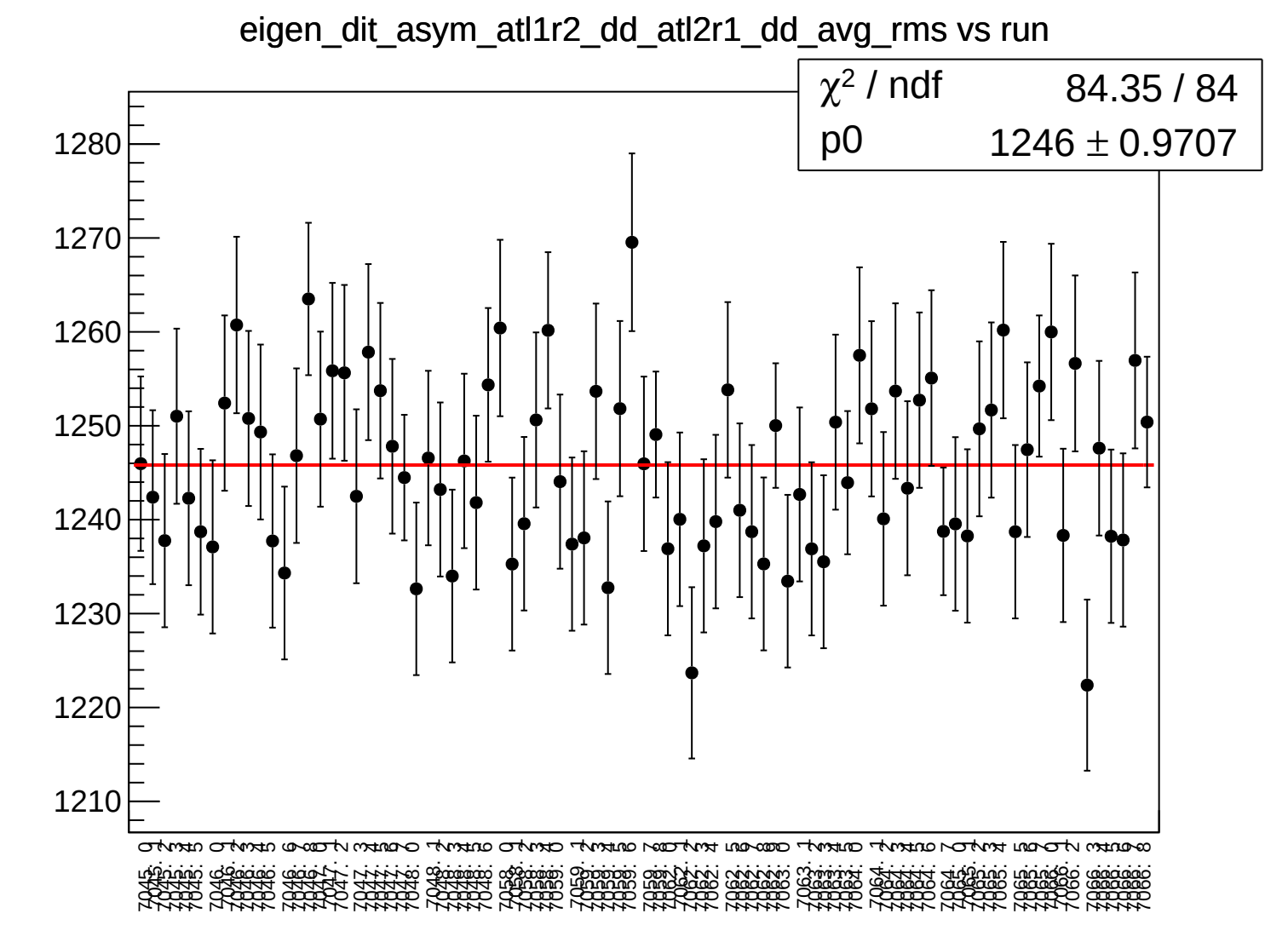

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 84.89 / 84
p0 −480.5 ± 483.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 390.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

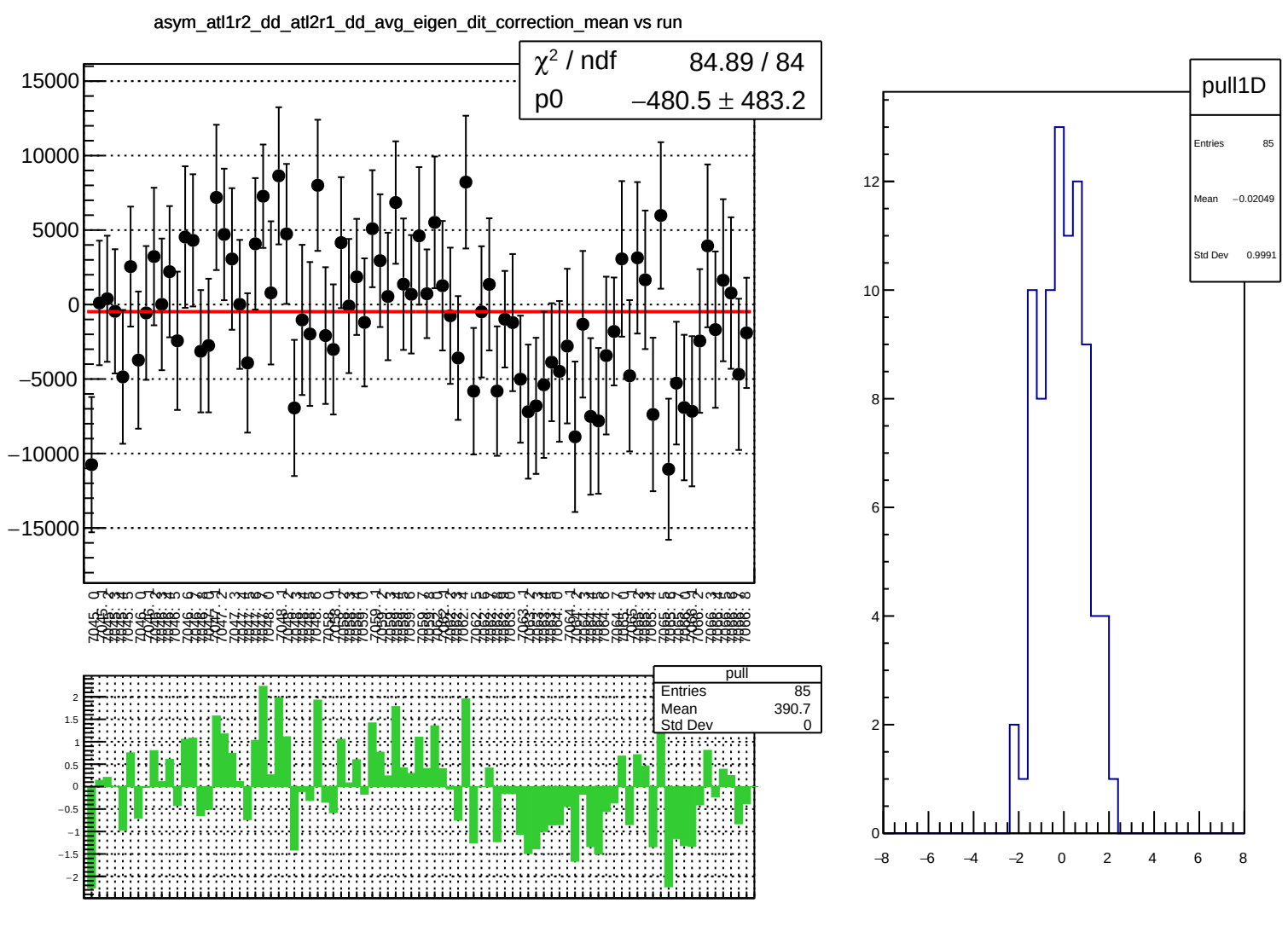

pull1D
Entries 85
Mean −0.0205
Std Dev 0.9991
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

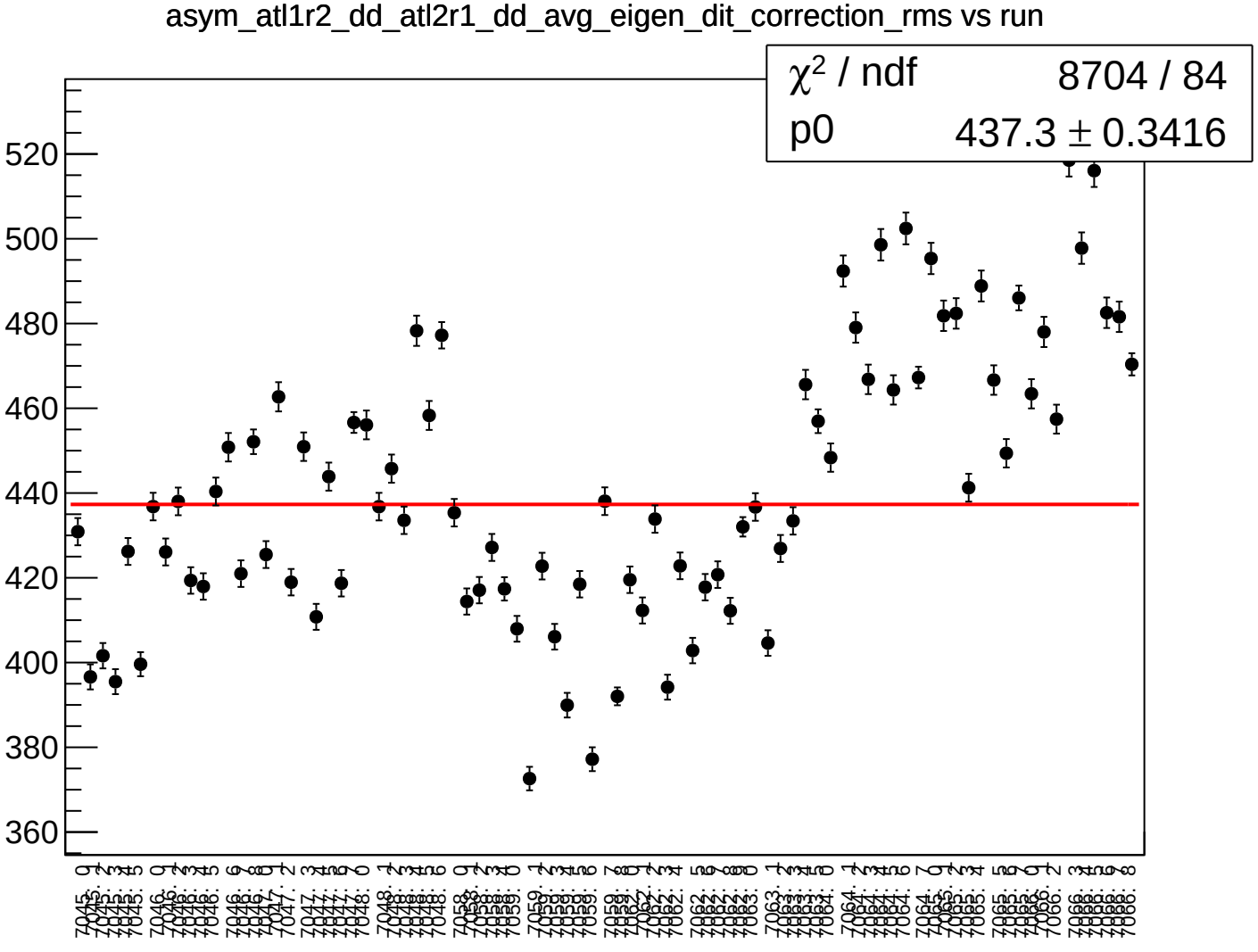

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 8705 / 84
p0 437.3 ± 0.3416
520
500
480
460
440
420
400
380
360

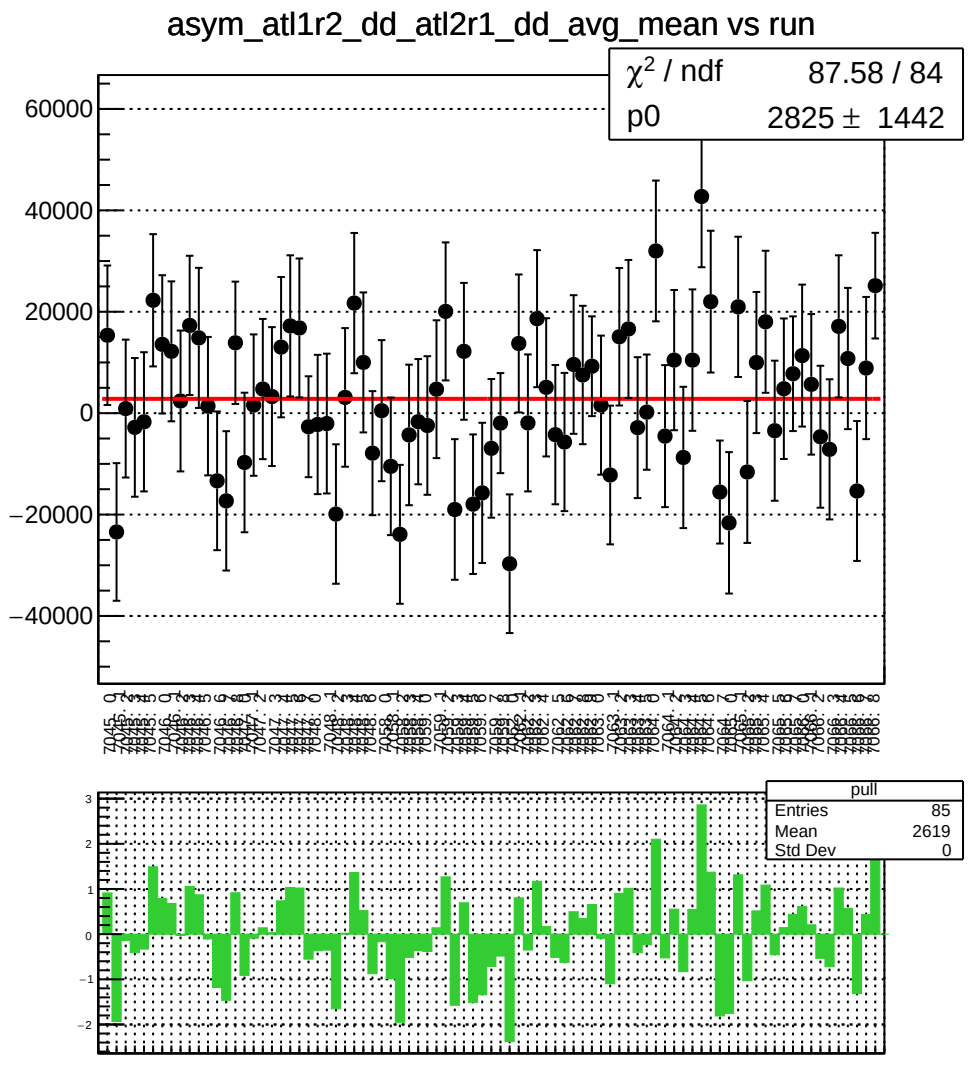

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.27 / 84
p0 2239 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 21.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

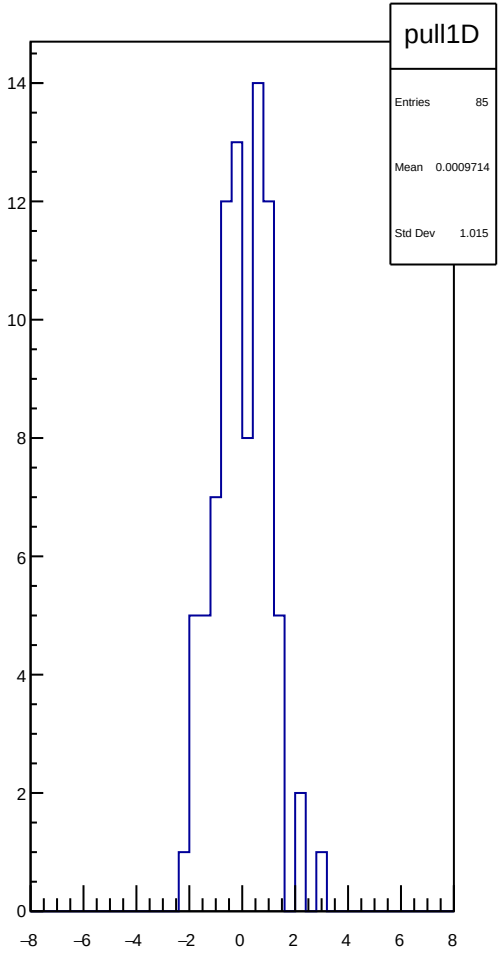

pull1D
Entries 85
Mean −0.002099
Std Dev 0.9898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

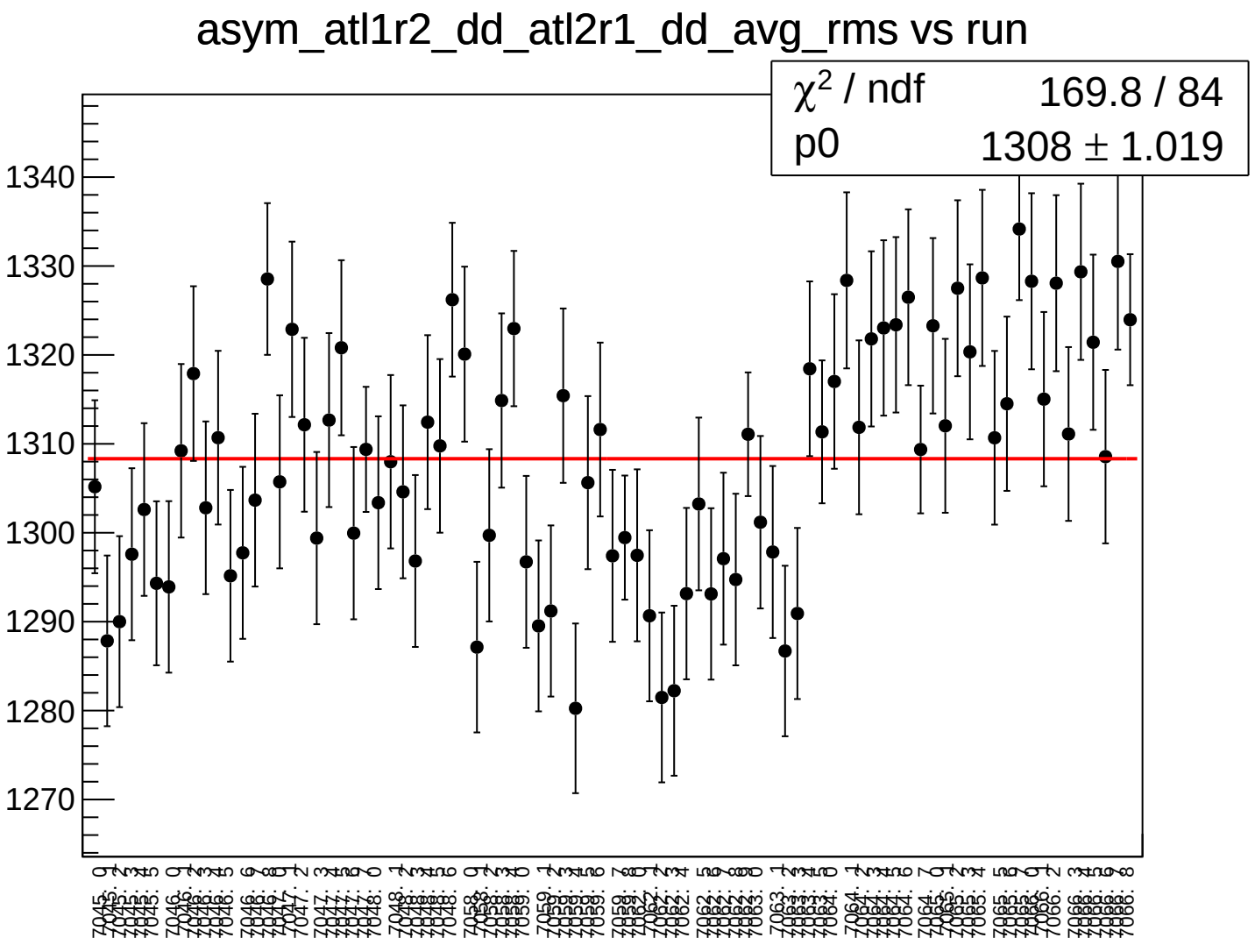

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 84.35 / 84
p0 1246 ± 0.9707
1280
1270
1260
1250
1240
1230
1220
1210

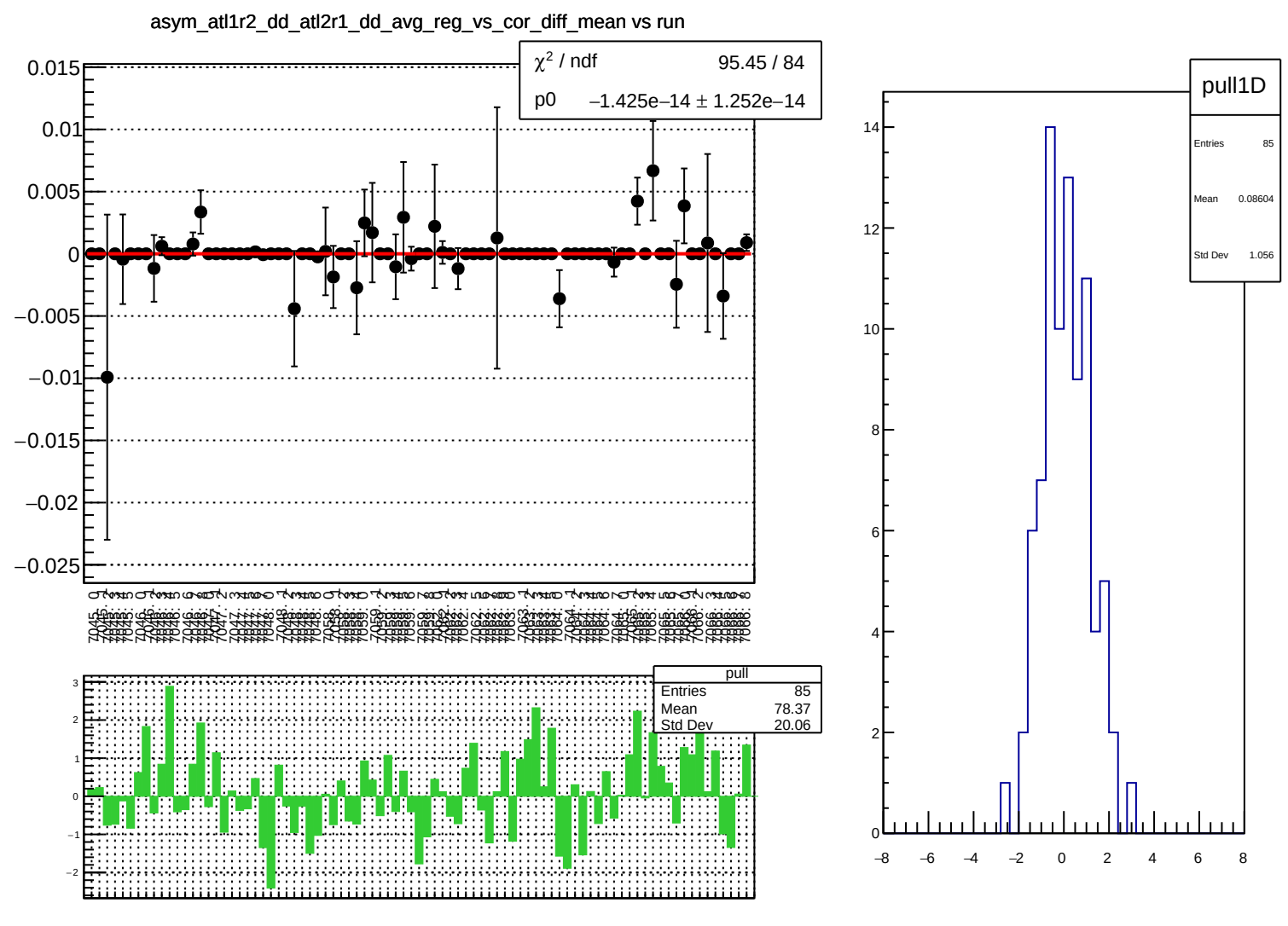

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.89 / 84
p0 −480.5 ± 483.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 390.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.02049
Std Dev 0.9991
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

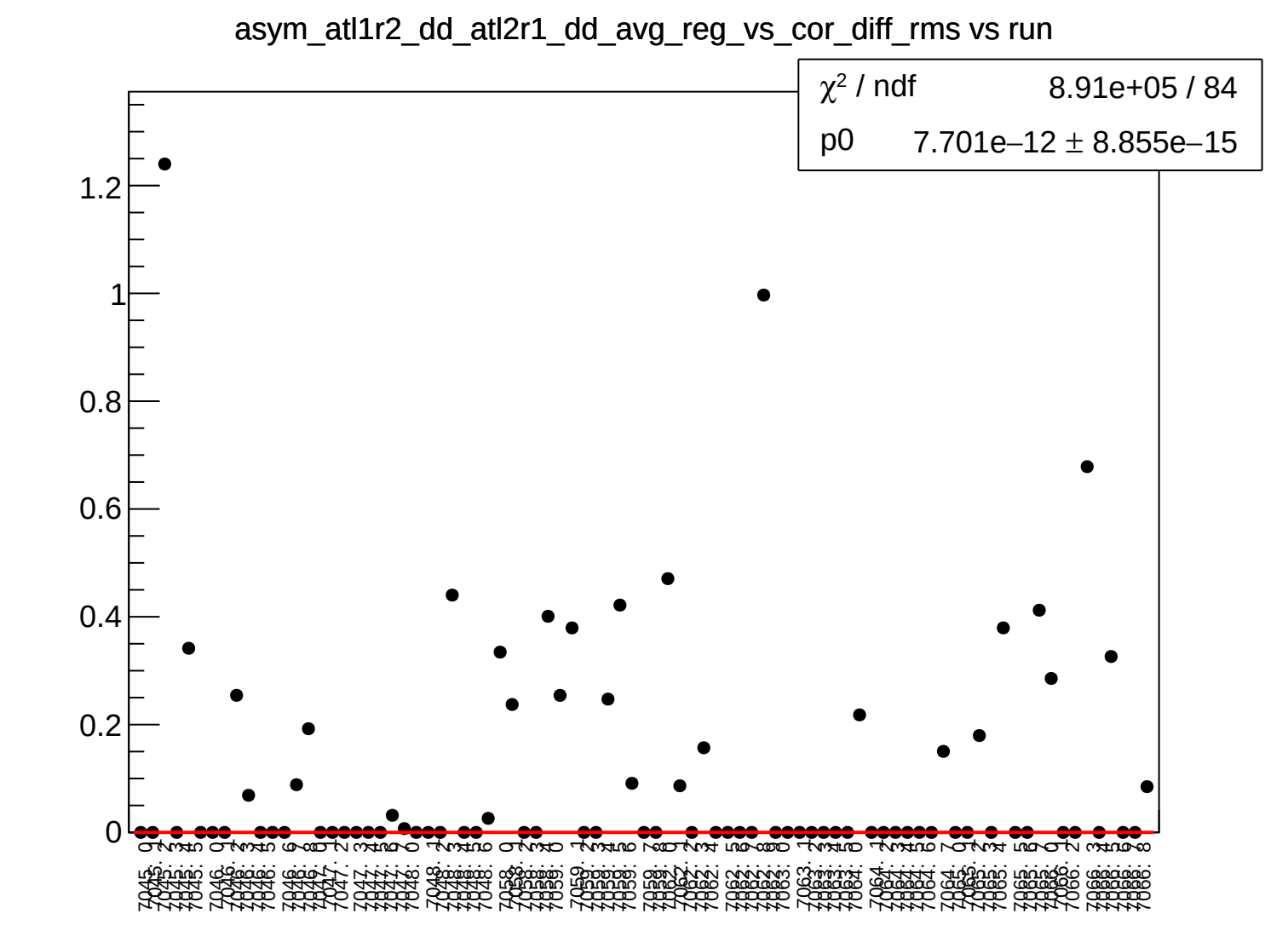

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8704 / 84
p0 437.3 ± 0.3416
520
500
480
460
440
420
400
380
360

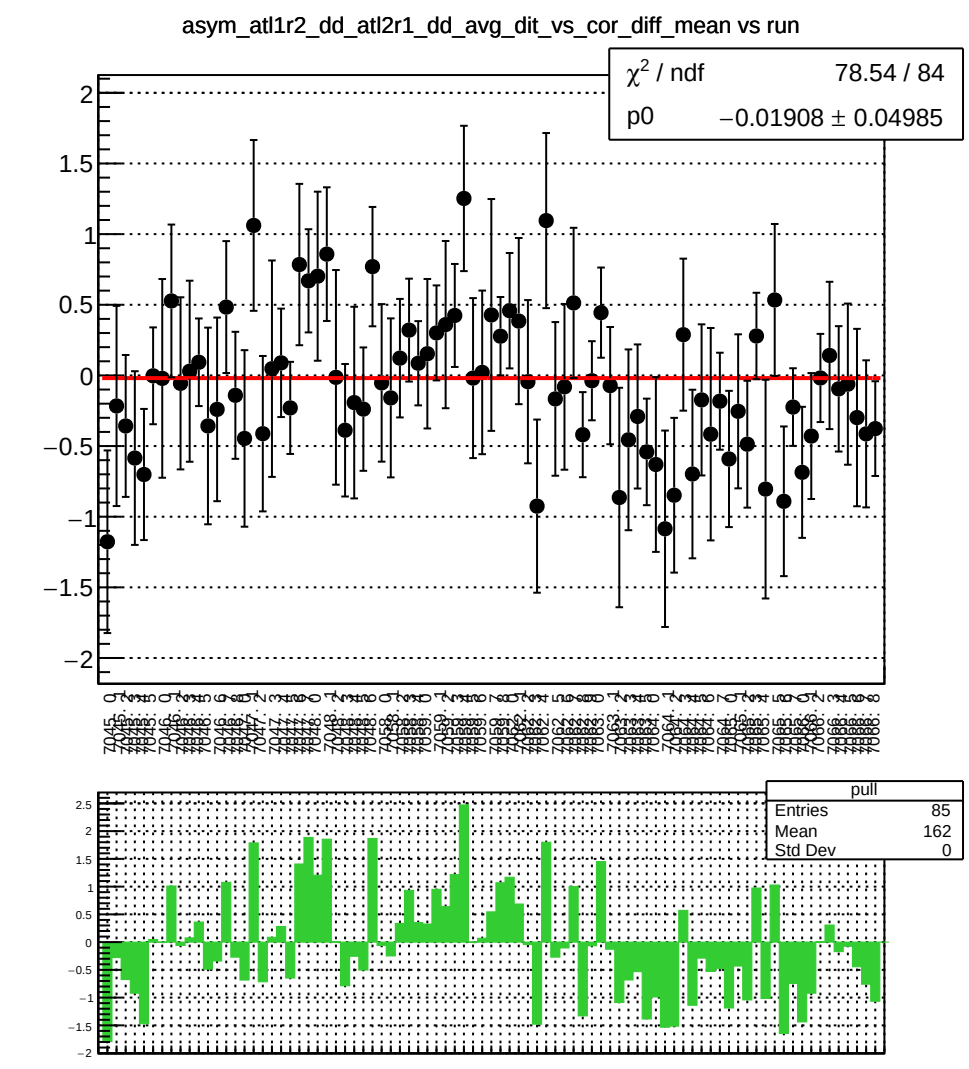

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 87.58 / 84
p0 2825 ± 1442
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 2619
Std Dev 0
3
2
1
0
−1
−2

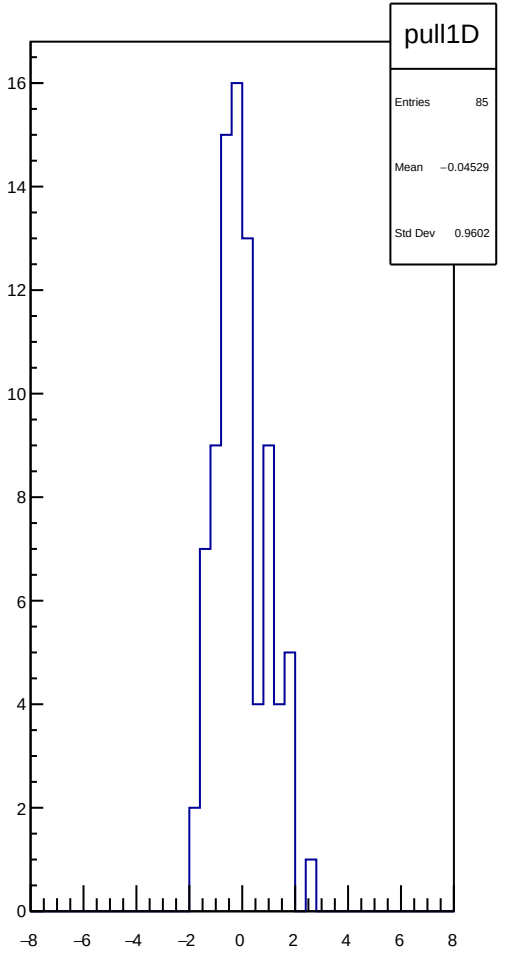

pull1D
Entries 85
Mean 0.0009714
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

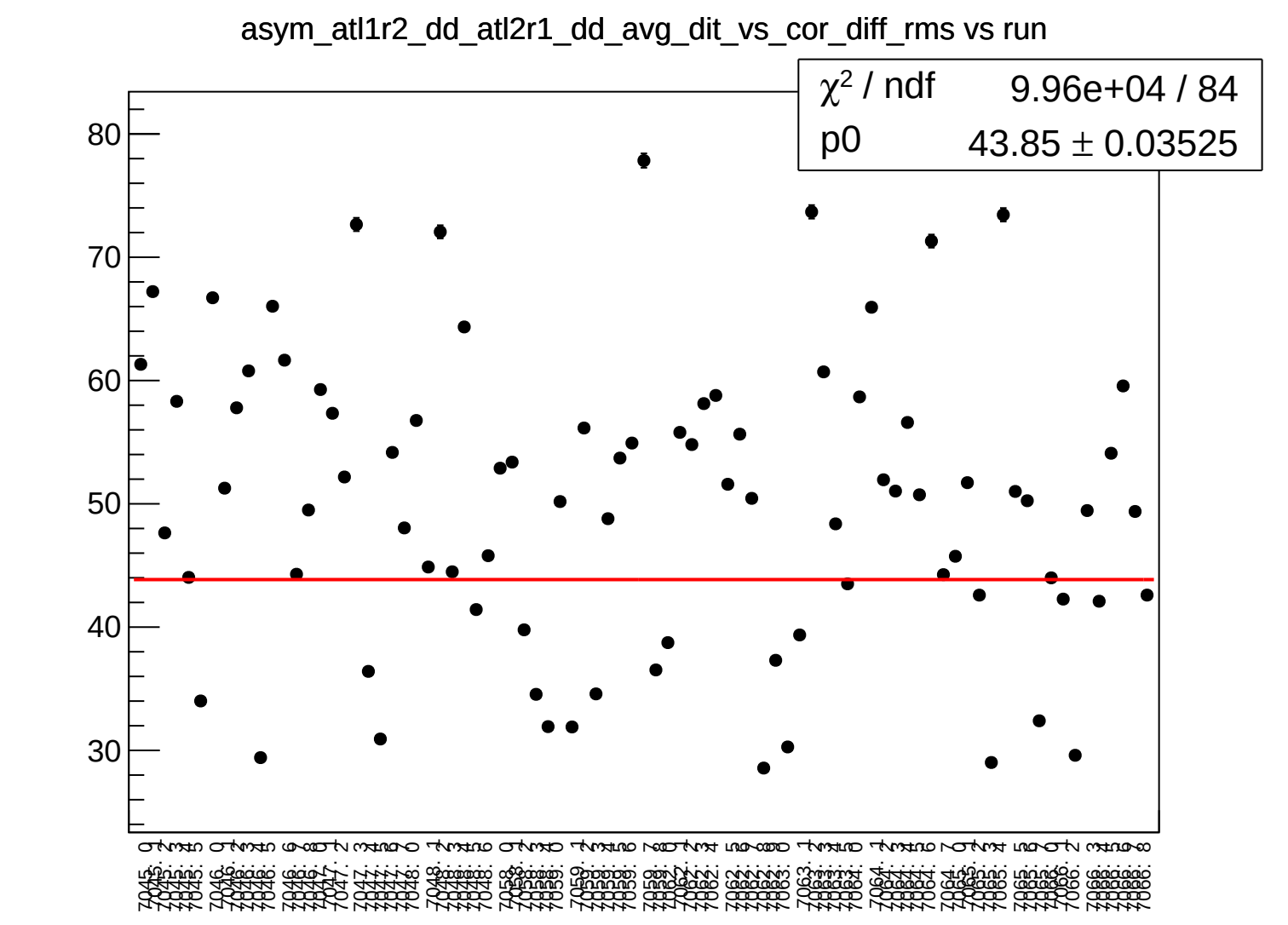

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 169.8 / 84
p0 1308 ± 1.019
1340
1330
1320
1310
1300
1290
1280
1270

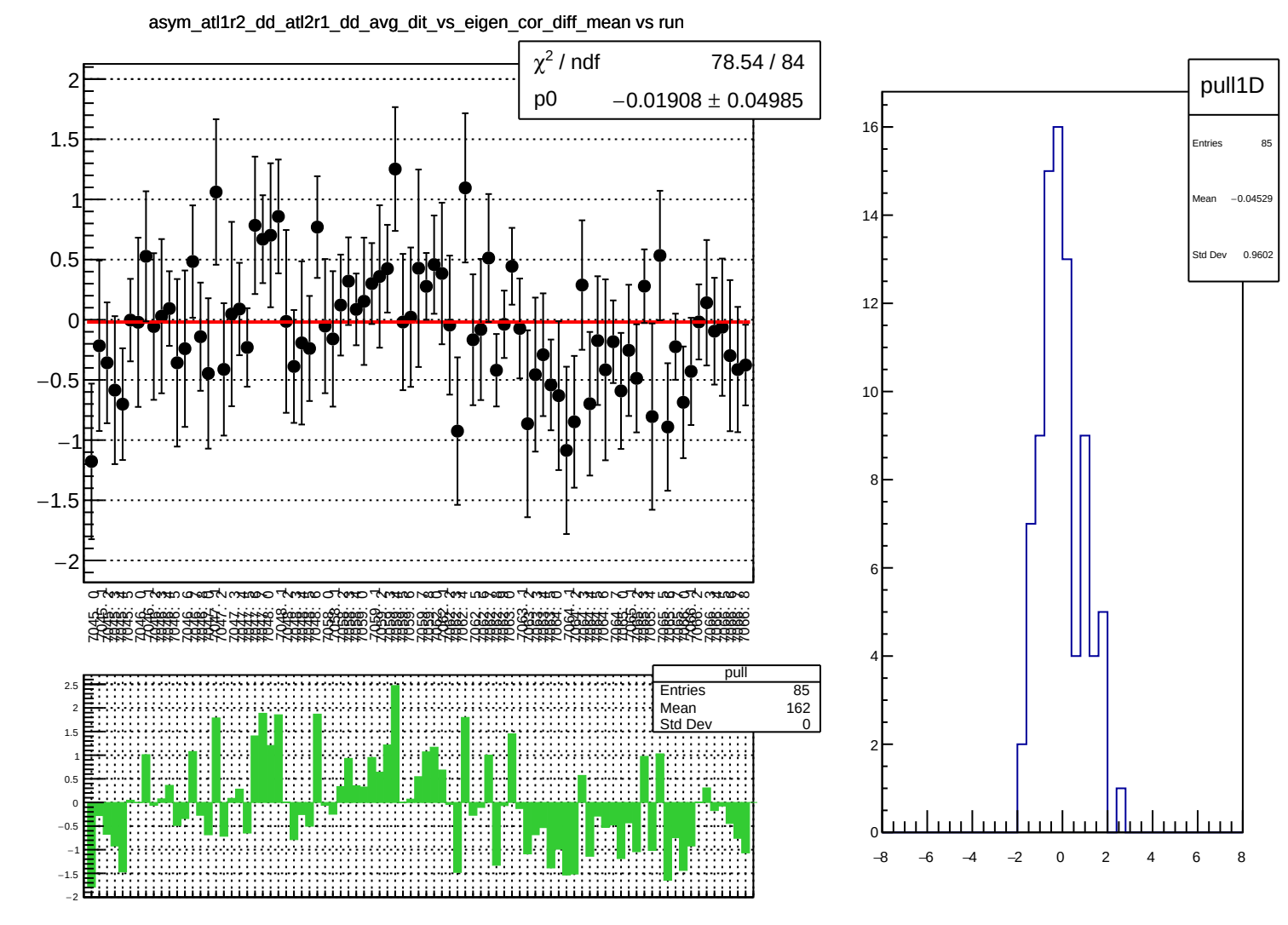

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.45 / 84
p0 −1.425e−14 ± 1.252e−14
pull
Entries 85
Mean 78.37
Std Dev 20.06
pull1D
Entries 85
Mean 0.08604
Std Dev 1.056

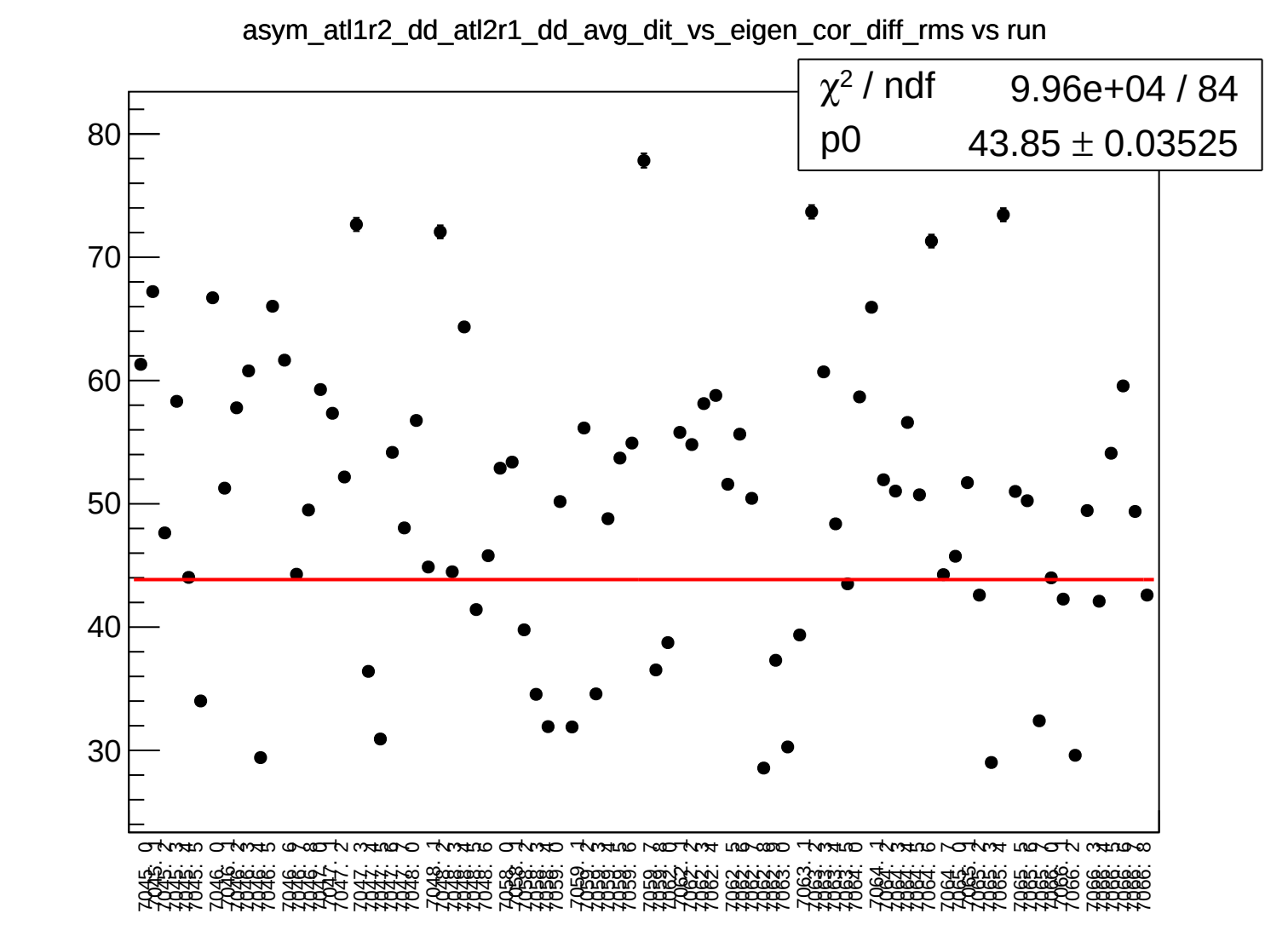

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.91e+05 / 84
p0 7.701e−12 ± 8.855e−15
1.2
1
0.8
0.6
0.4
0.2
0

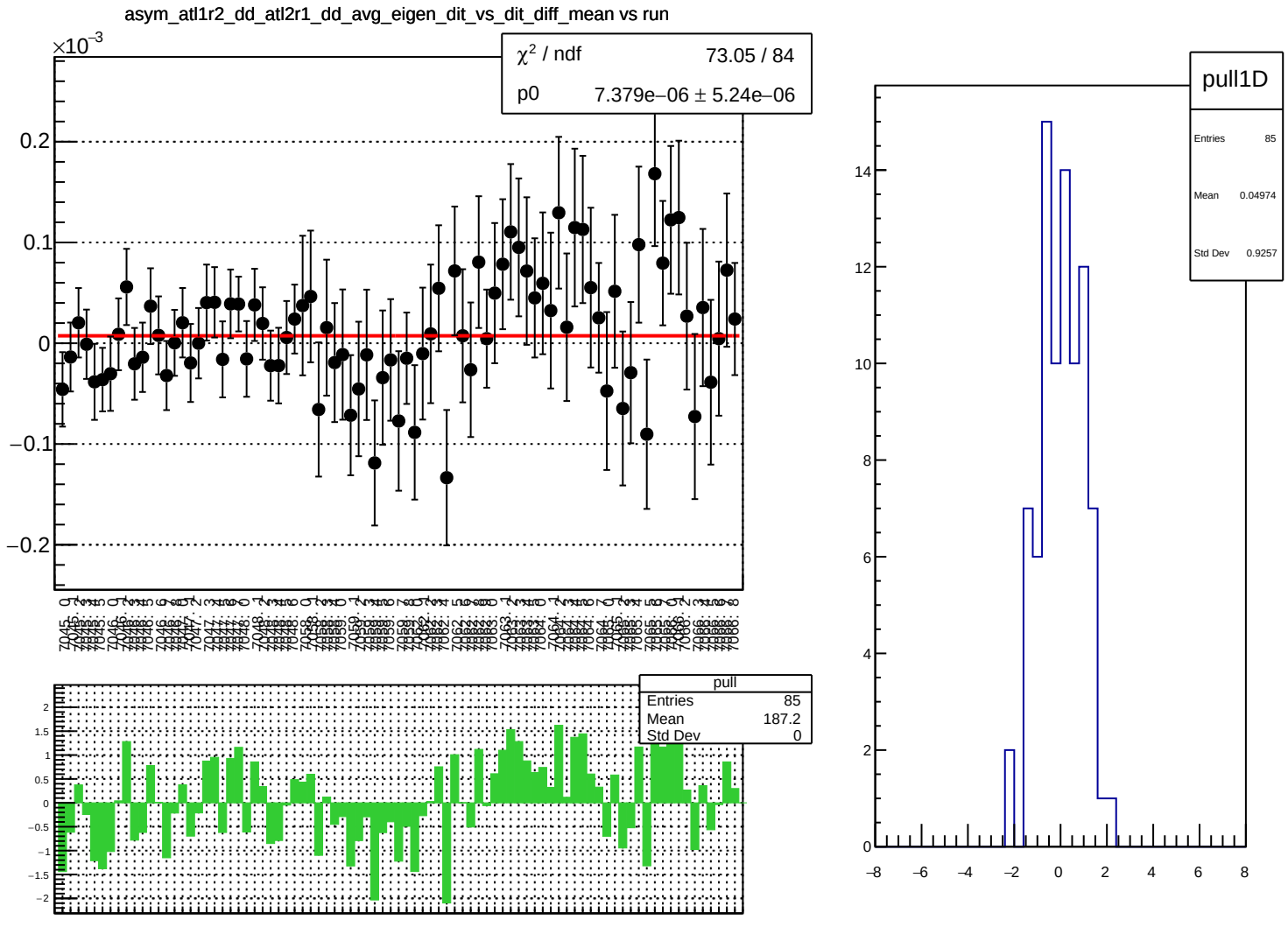

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01908 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0

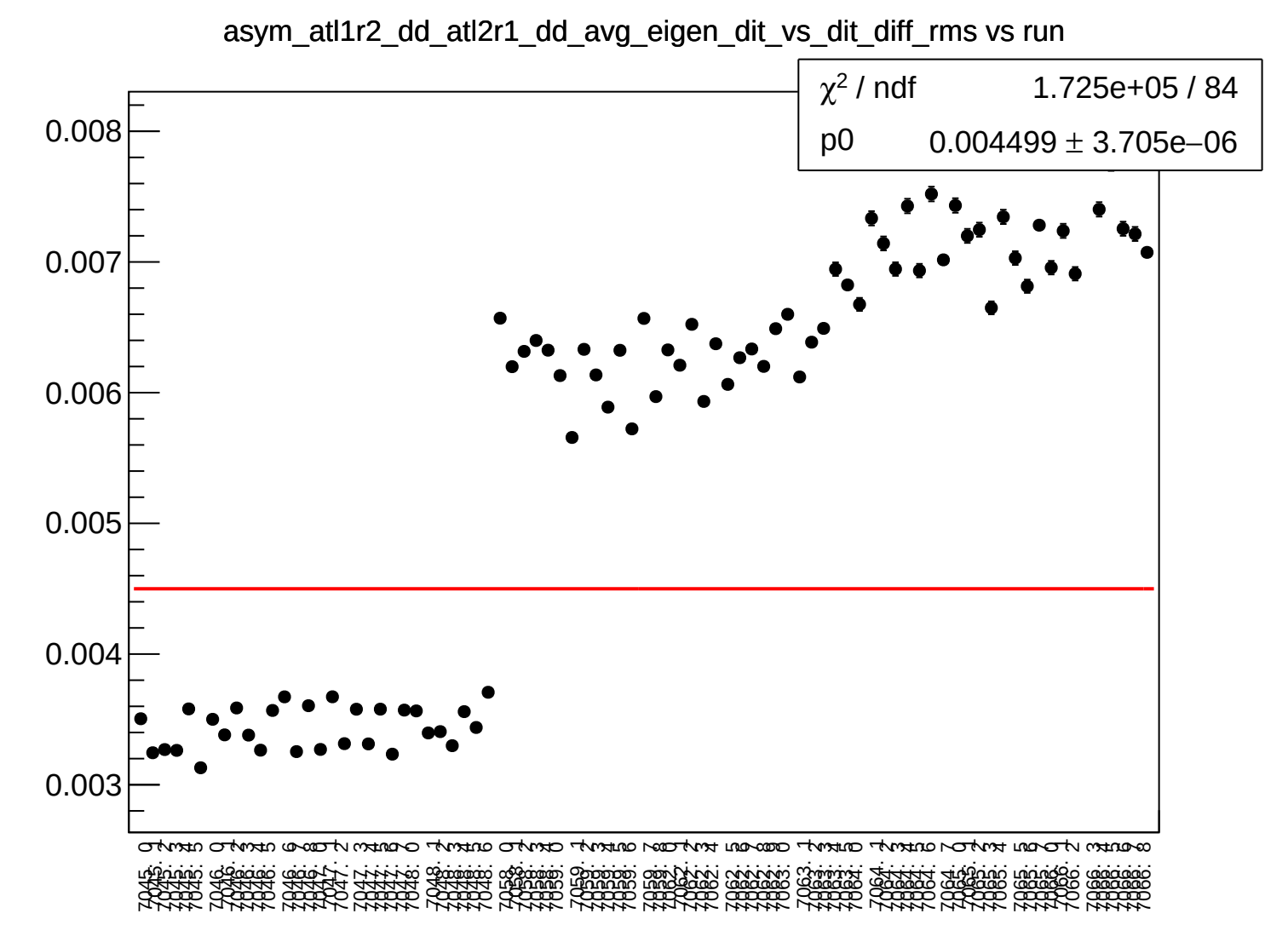

pull1D
Entries 85
Mean −0.04529
Std Dev 0.9602

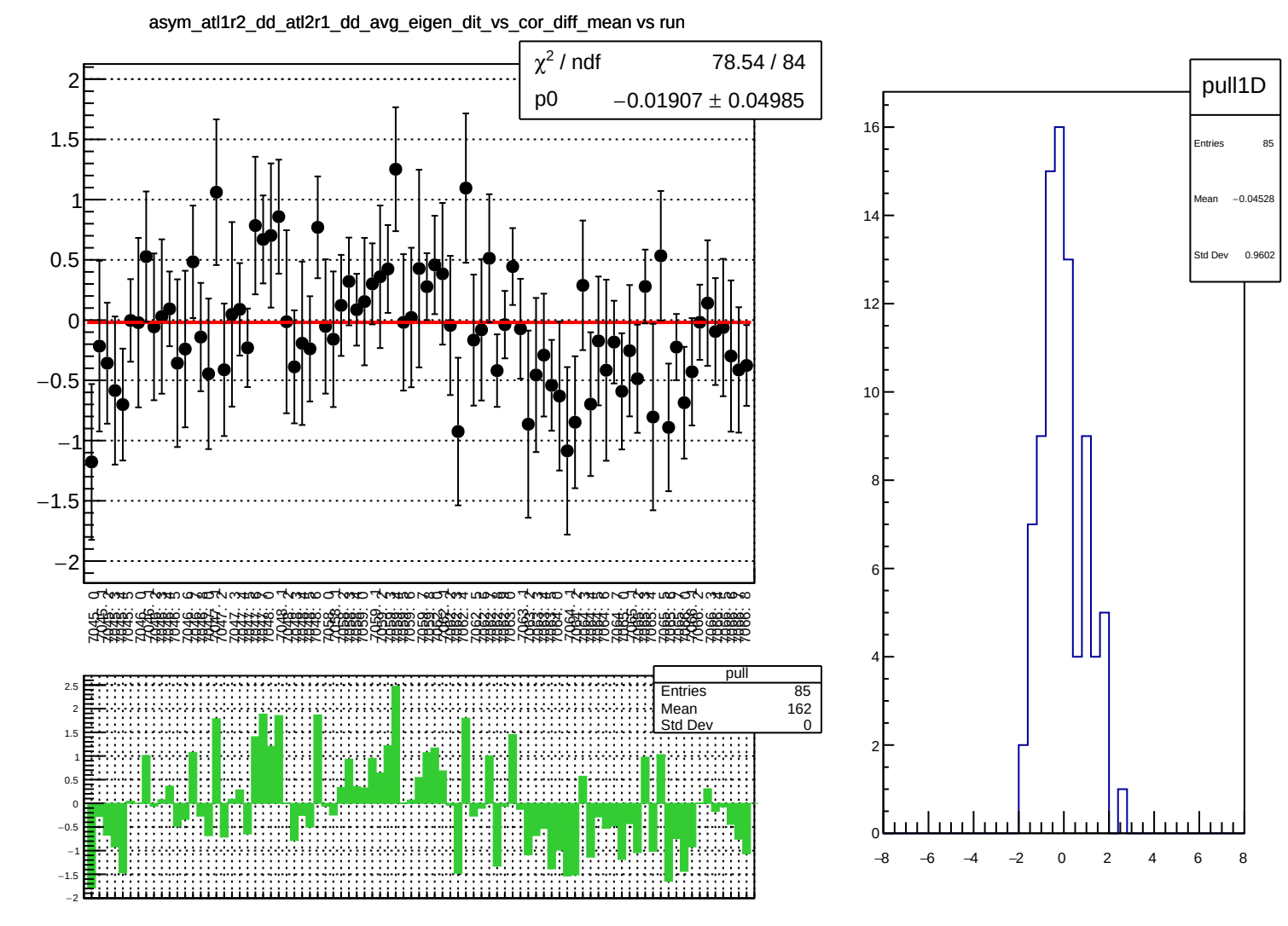

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.96e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

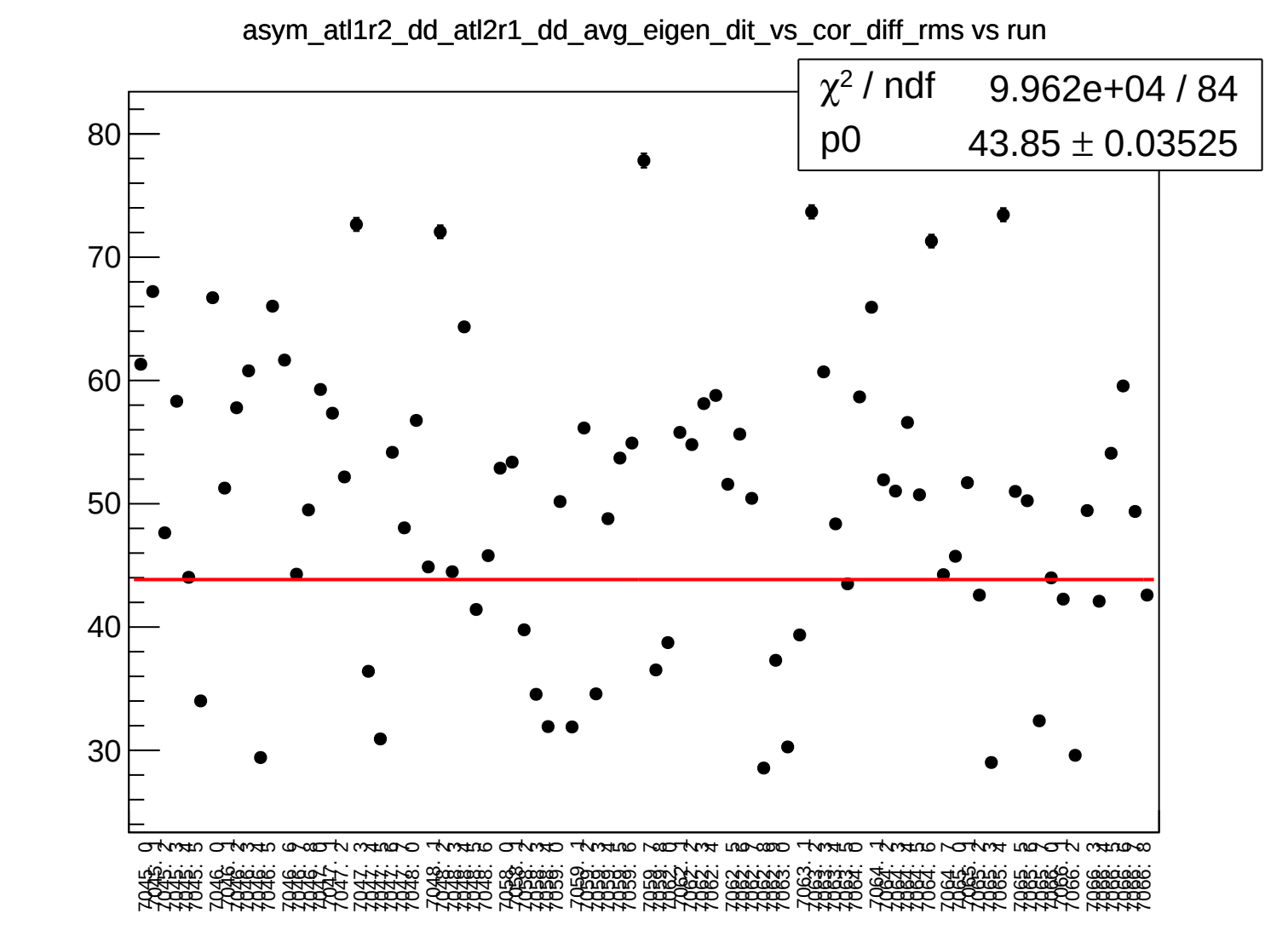

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01908 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0
pull1D
Entries 85
Mean −0.04529
Std Dev 0.9602

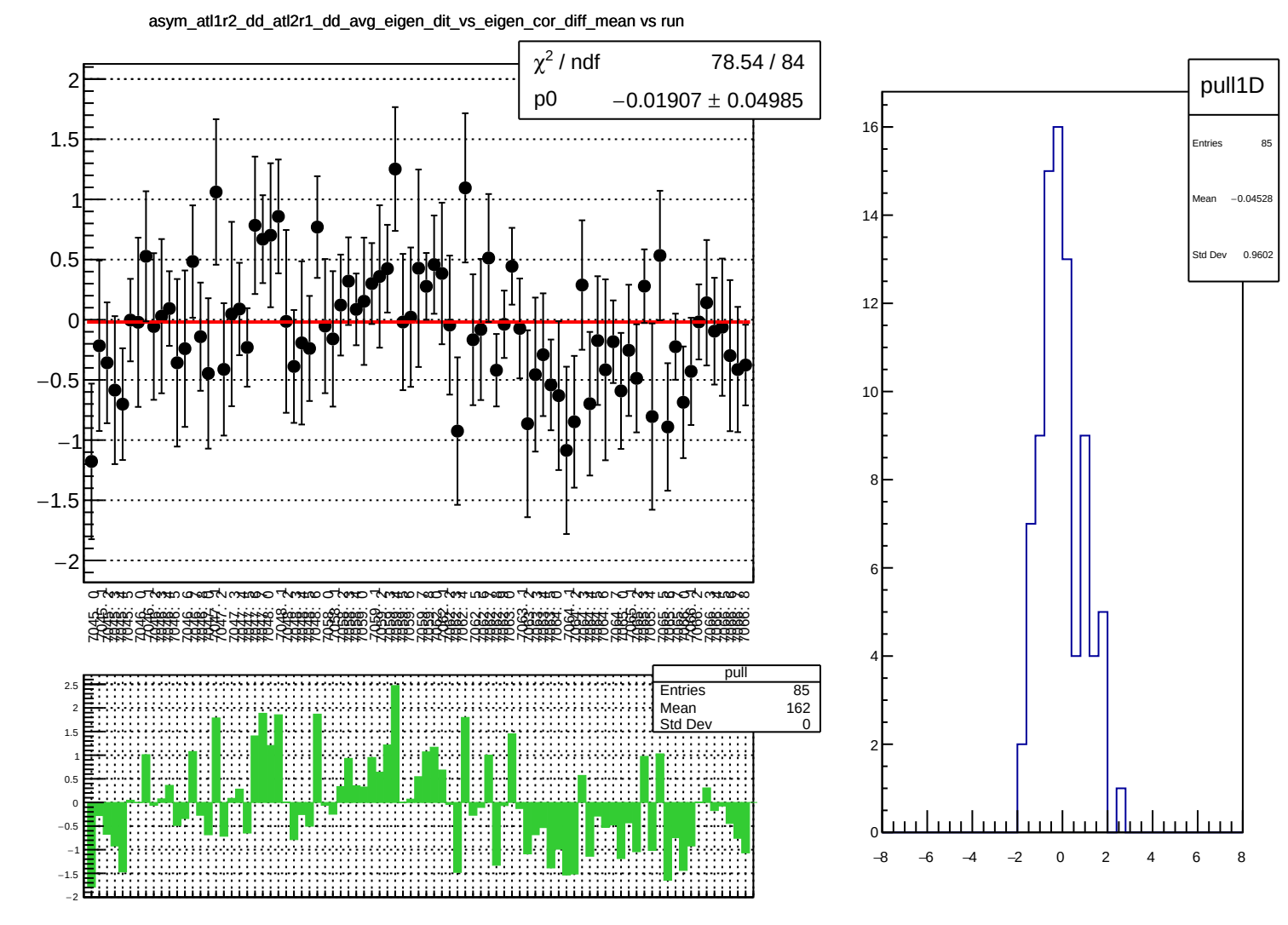

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.96e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

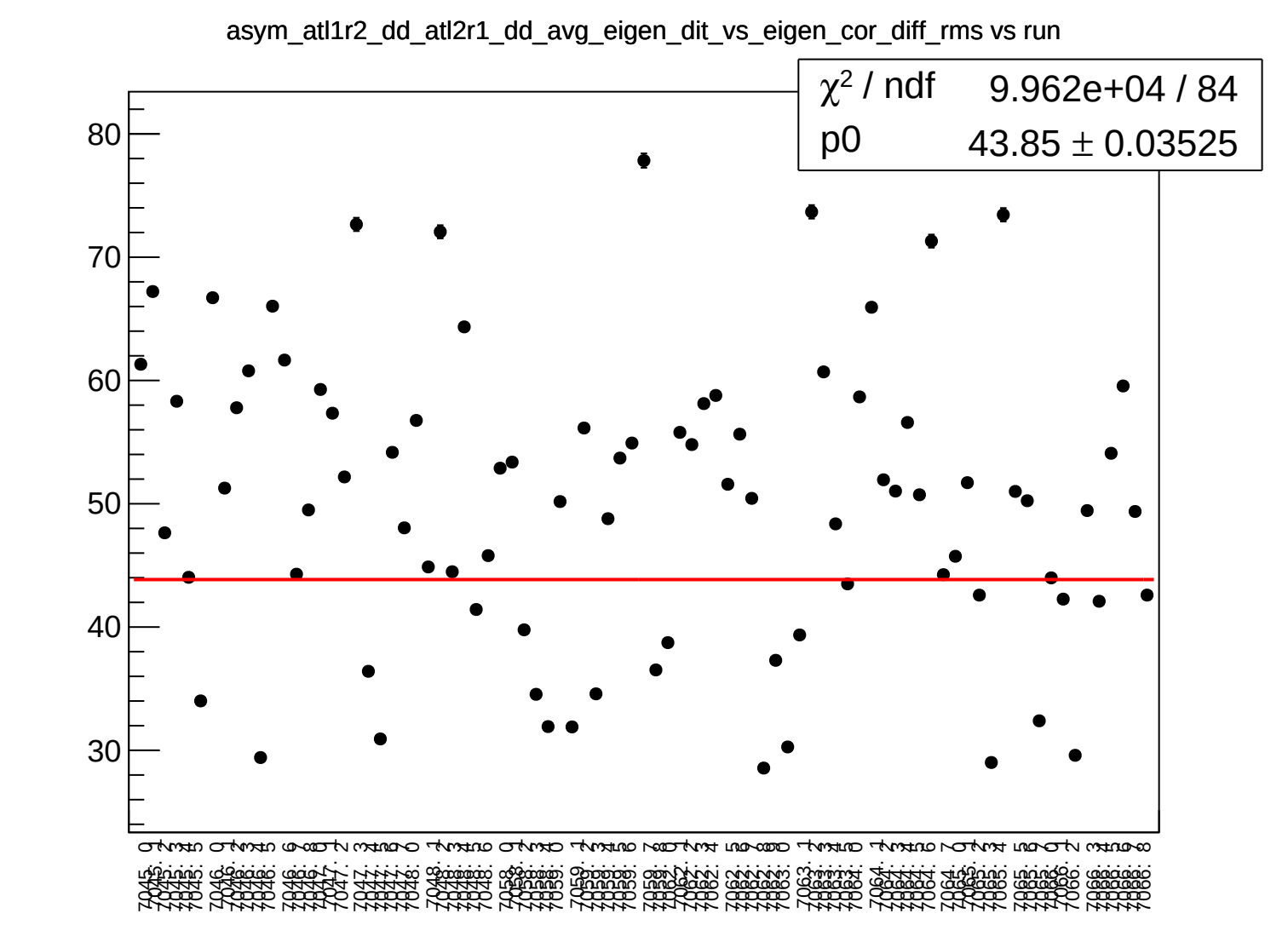

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.05 / 84
p0 7.379e−06 ± 5.24e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean 187.2
Std Dev 0
pull1D
Entries 85
Mean 0.04974
Std Dev 0.9257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

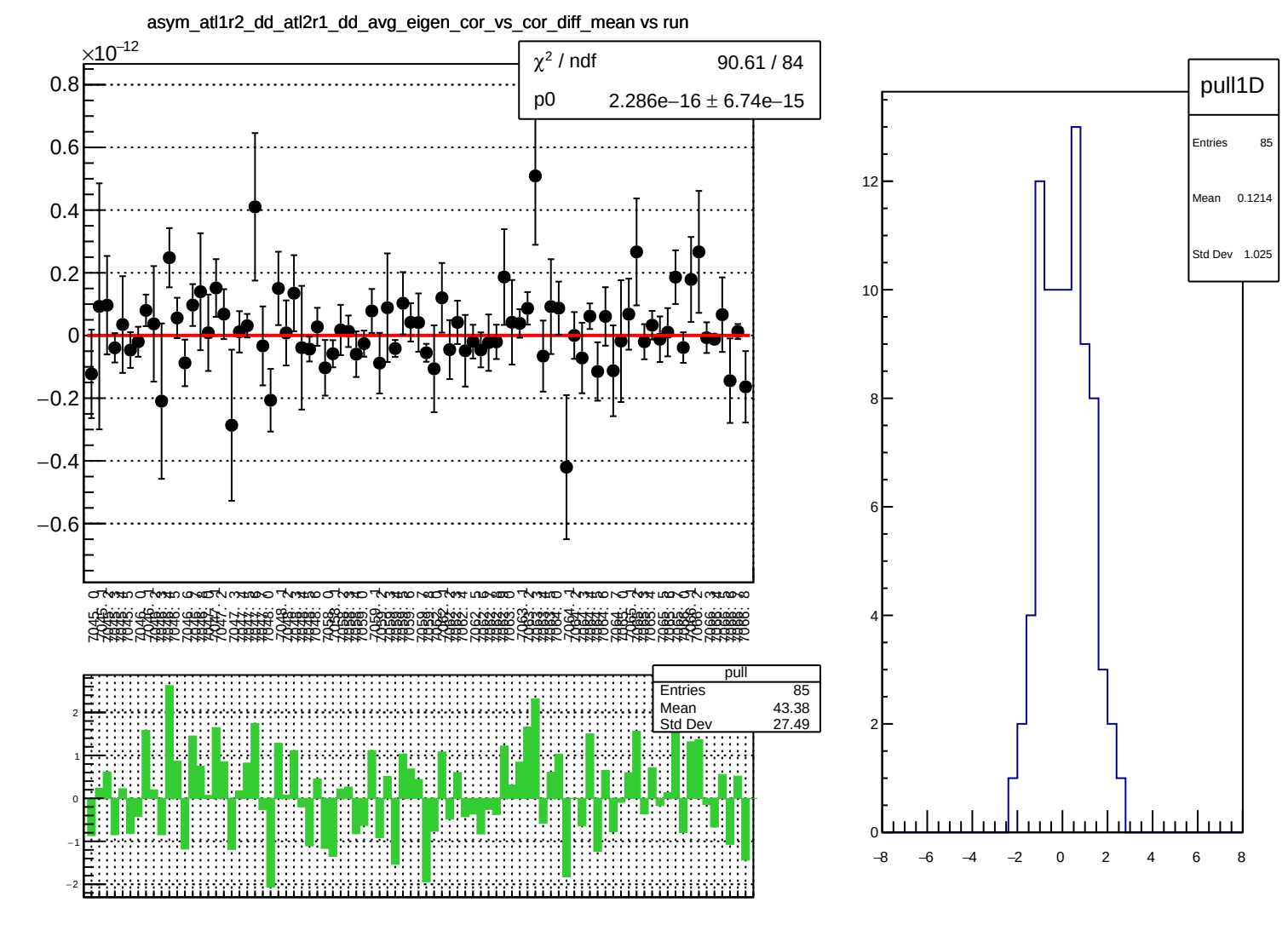

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.725e+05 / 84
p0 0.004499 ± 3.705e−06
0.008
0.007
0.006
0.005
0.004
0.003

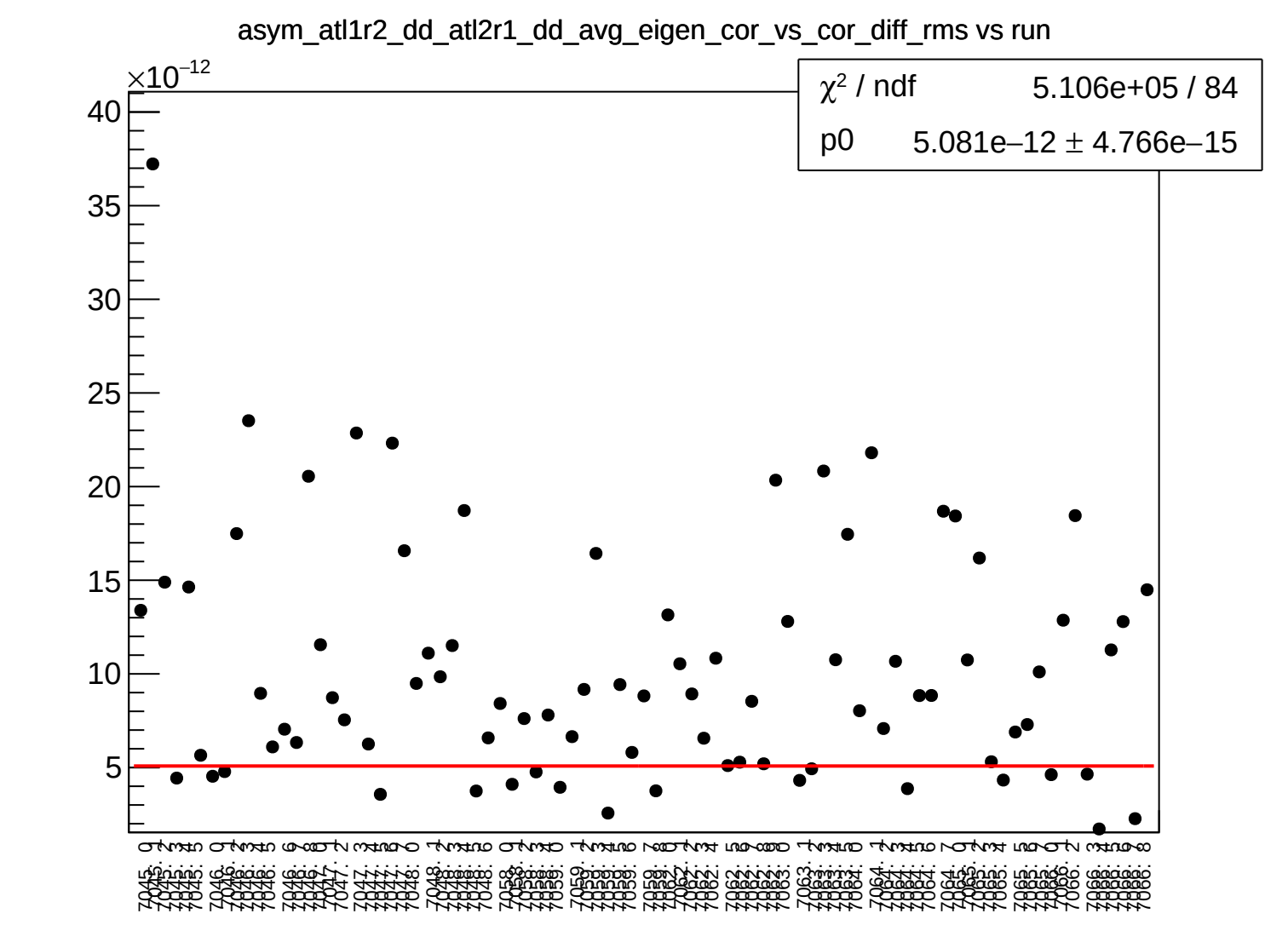

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01907 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0
pull1D
Entries 85
Mean −0.04528
Std Dev 0.9602

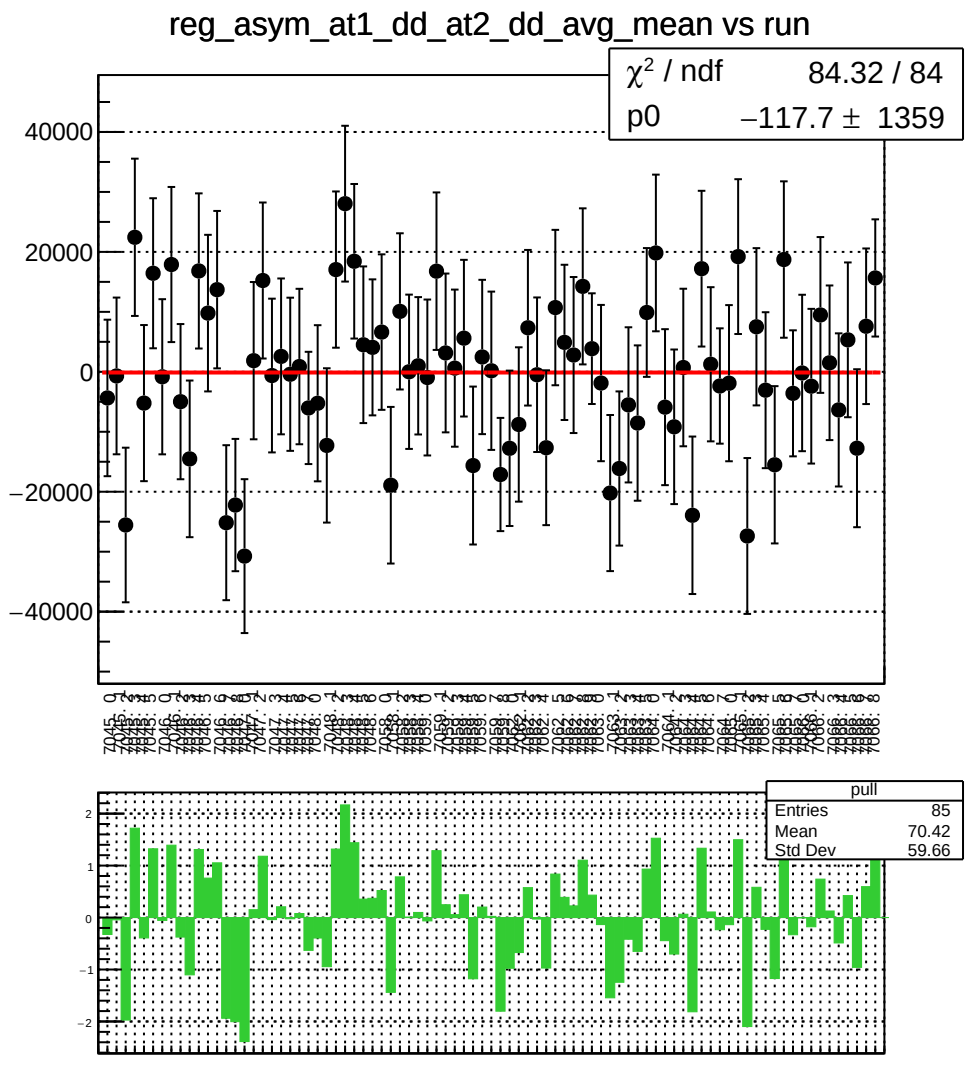

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.962e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

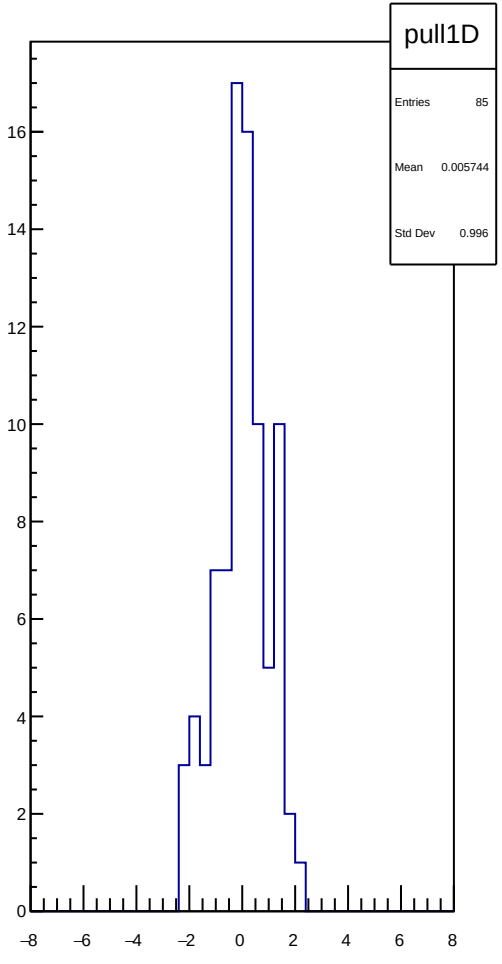

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.01907 ± 0.04985
pull
Entries 85
Mean 162
Std Dev 0
pull1D
Entries 85
Mean −0.04528
Std Dev 0.9602

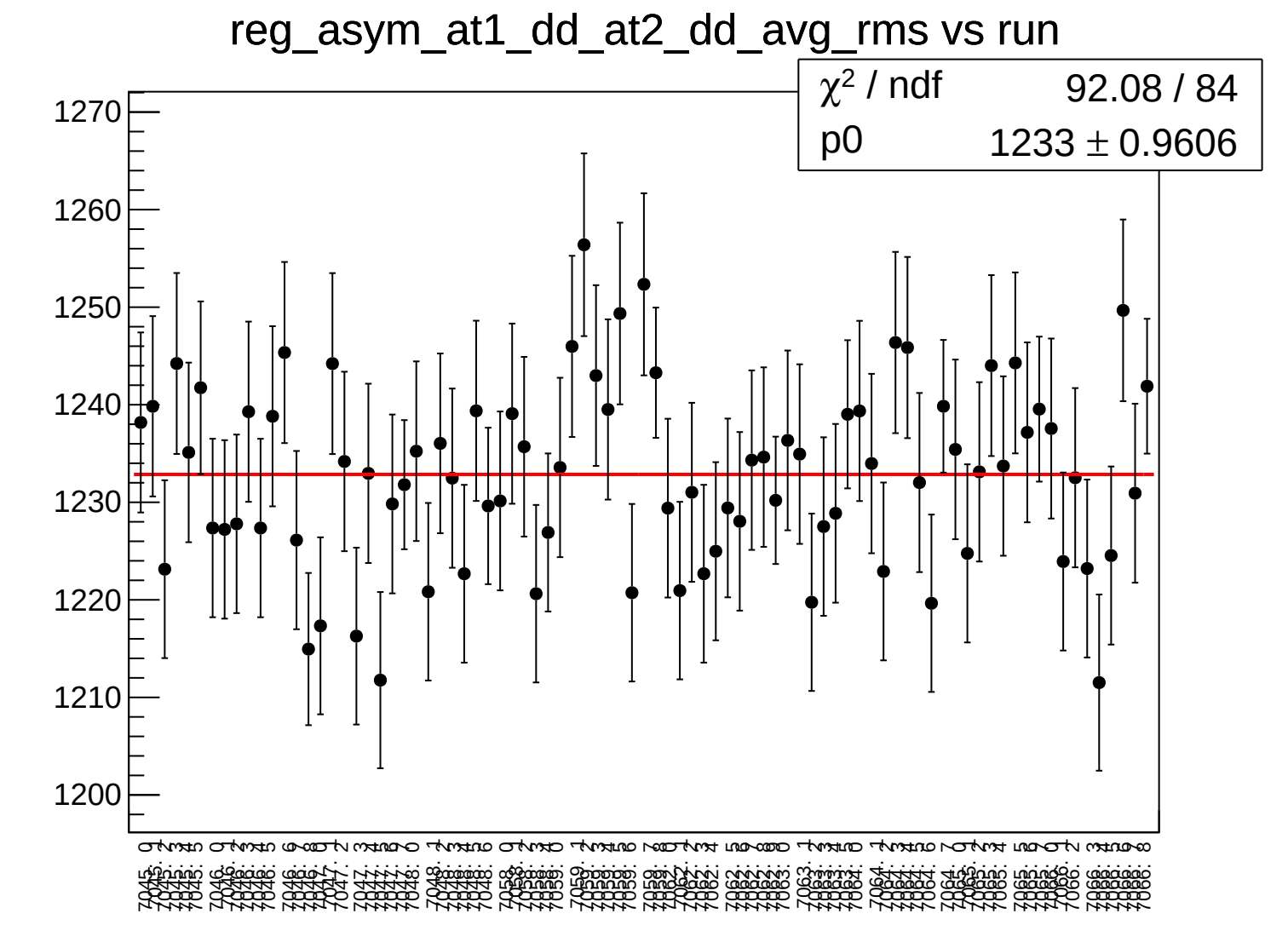

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.962e+04 / 84
p0 43.85 ± 0.03525
80
70
60
50
40
30

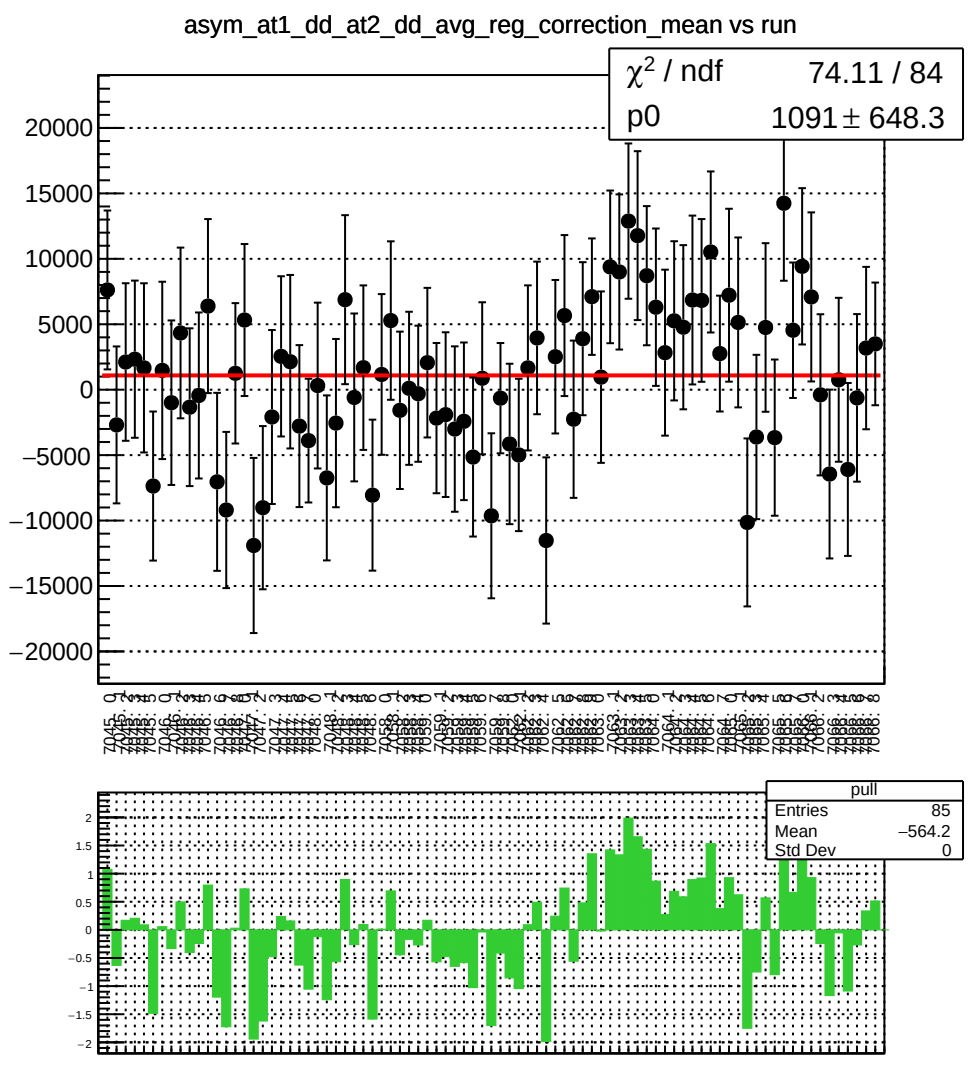

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 90.61 / 84
p0 2.286e−16 ± 6.74e−15
pull
Entries 85
Mean 43.38
Std Dev 27.49
pull1D
Entries 85
Mean 0.1214
Std Dev 1.025

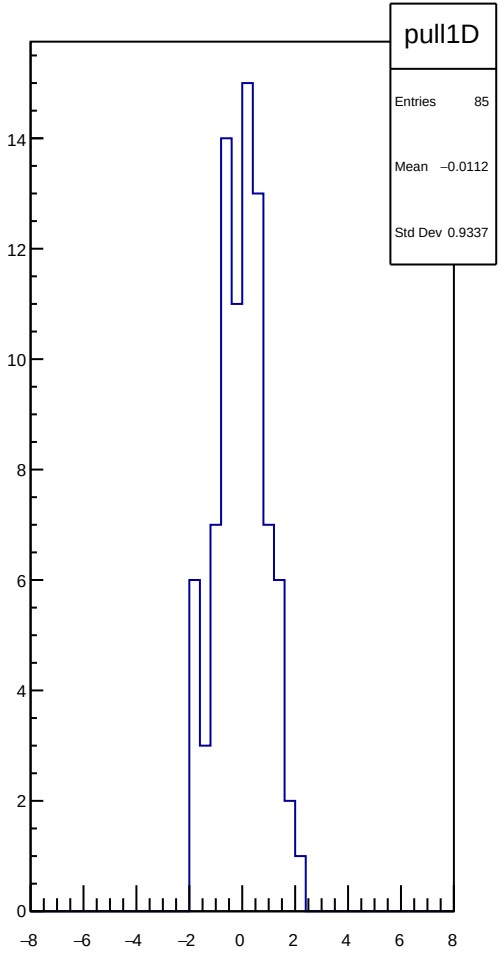

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.106e+05 / 84
p0 5.081e−12 ± 4.766e−15
40
35
30
25
20
15
10
5

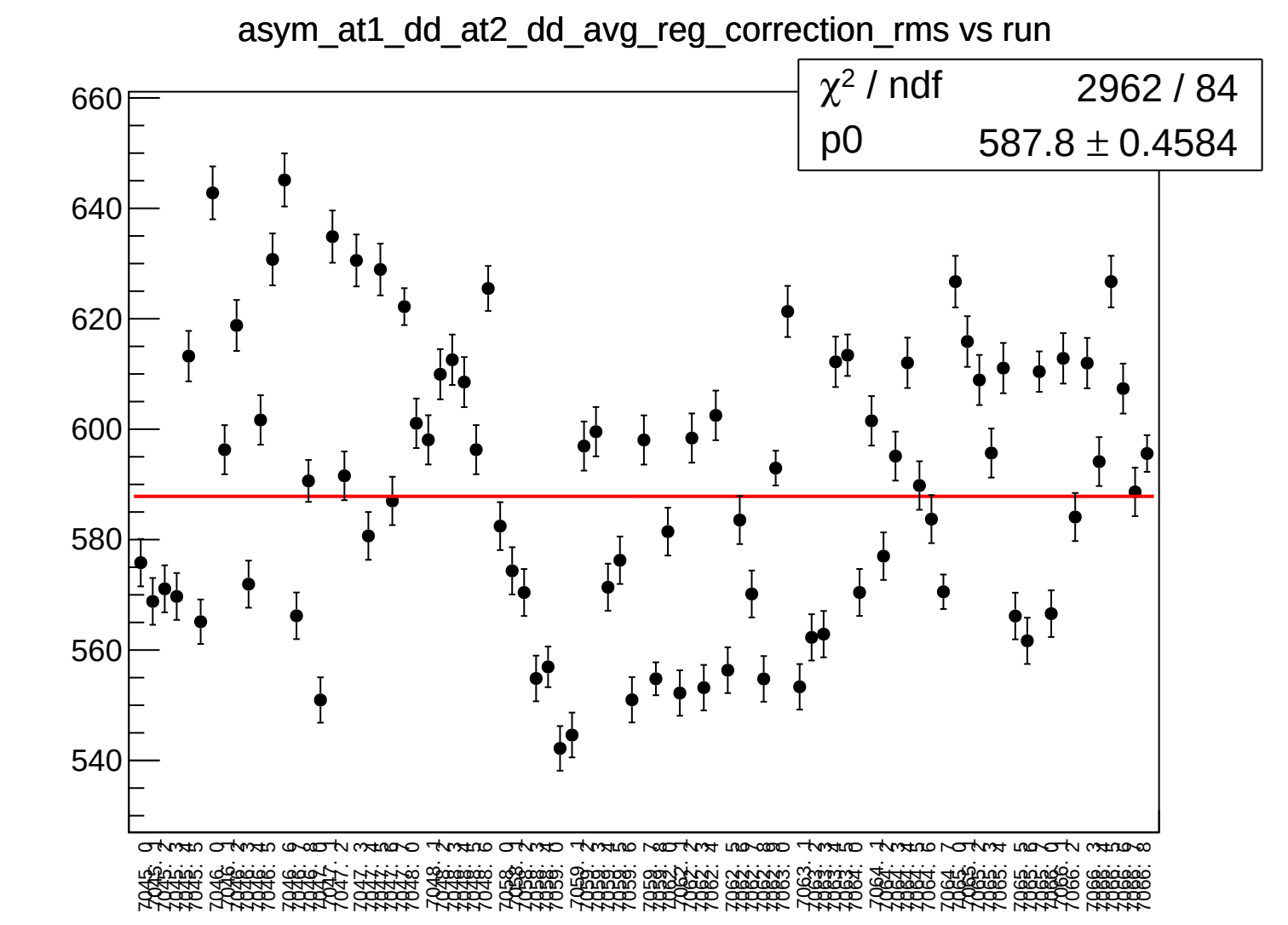

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.32 / 84
p0 −117.7 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 70.42
Std Dev 59.66
2
1
0
−1
−2

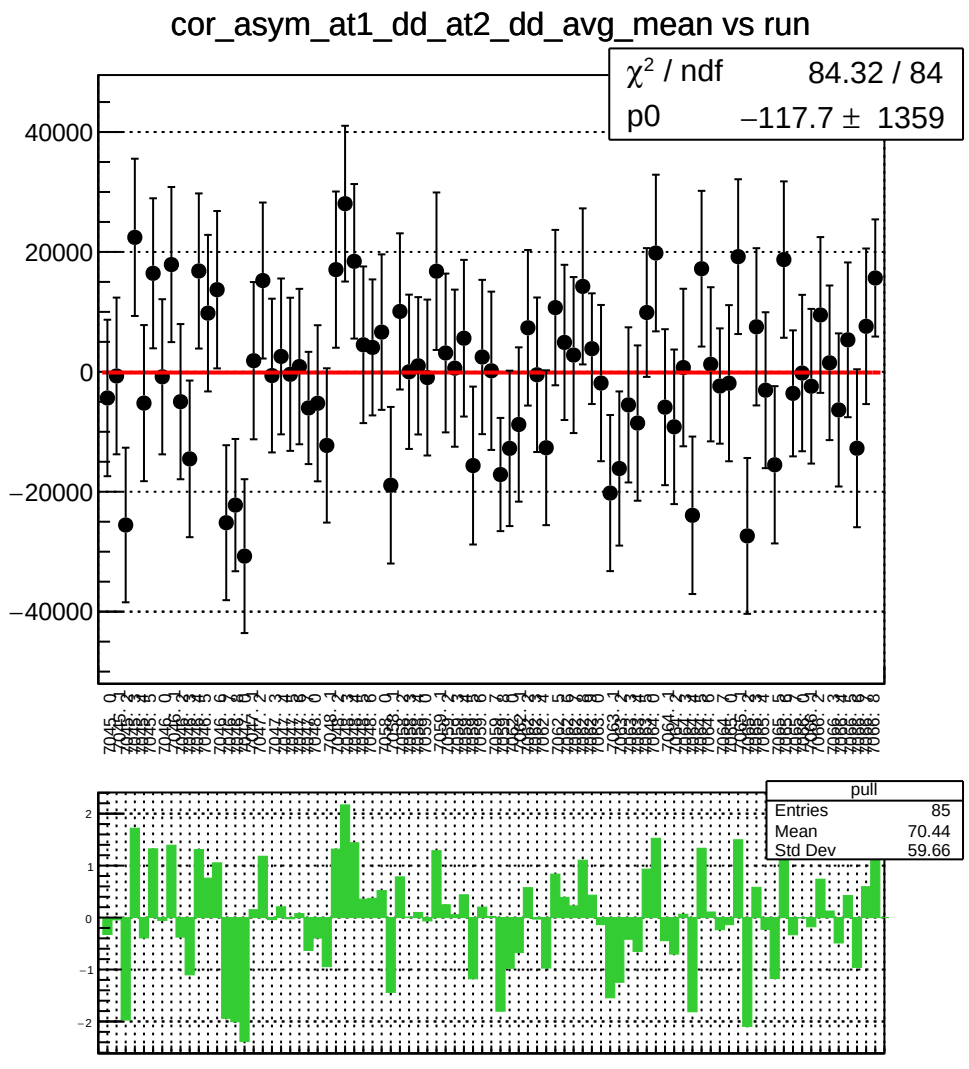

pull1D
Entries 85
Mean 0.005744
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

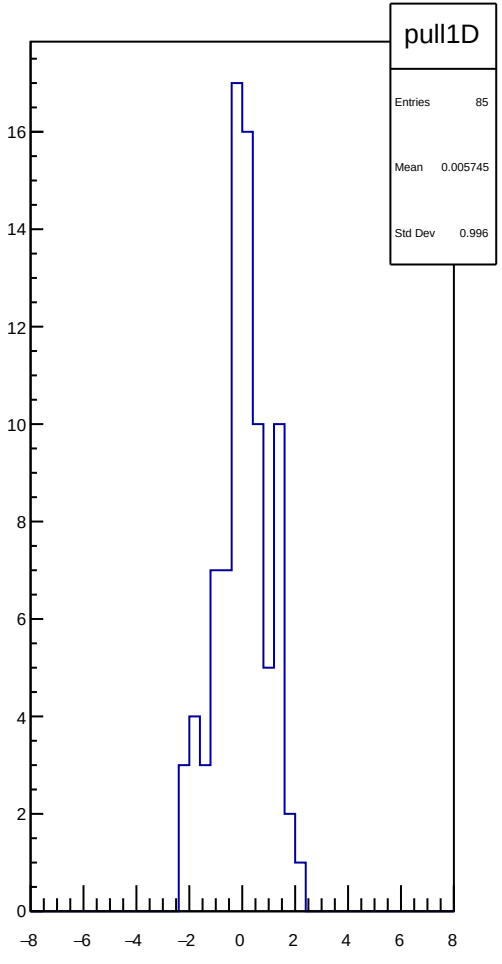

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.08 / 84
p0 1233 ± 0.9606
1270
1260
1250
1240
1230
1220
1210
1200

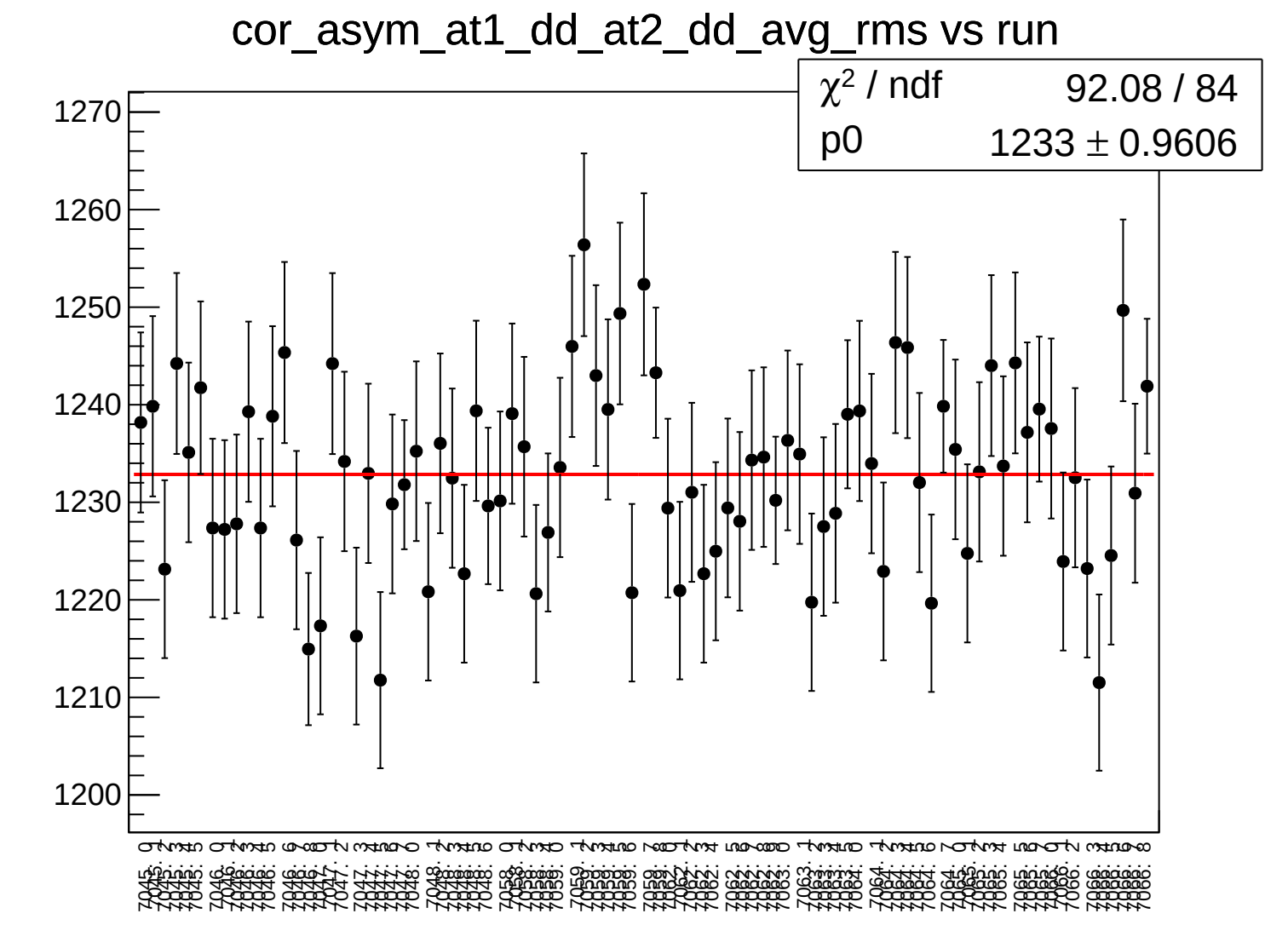

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 74.11 / 84
p0 1091 ± 648.3
pull
Entries 85
Mean −564.2
Std Dev 0

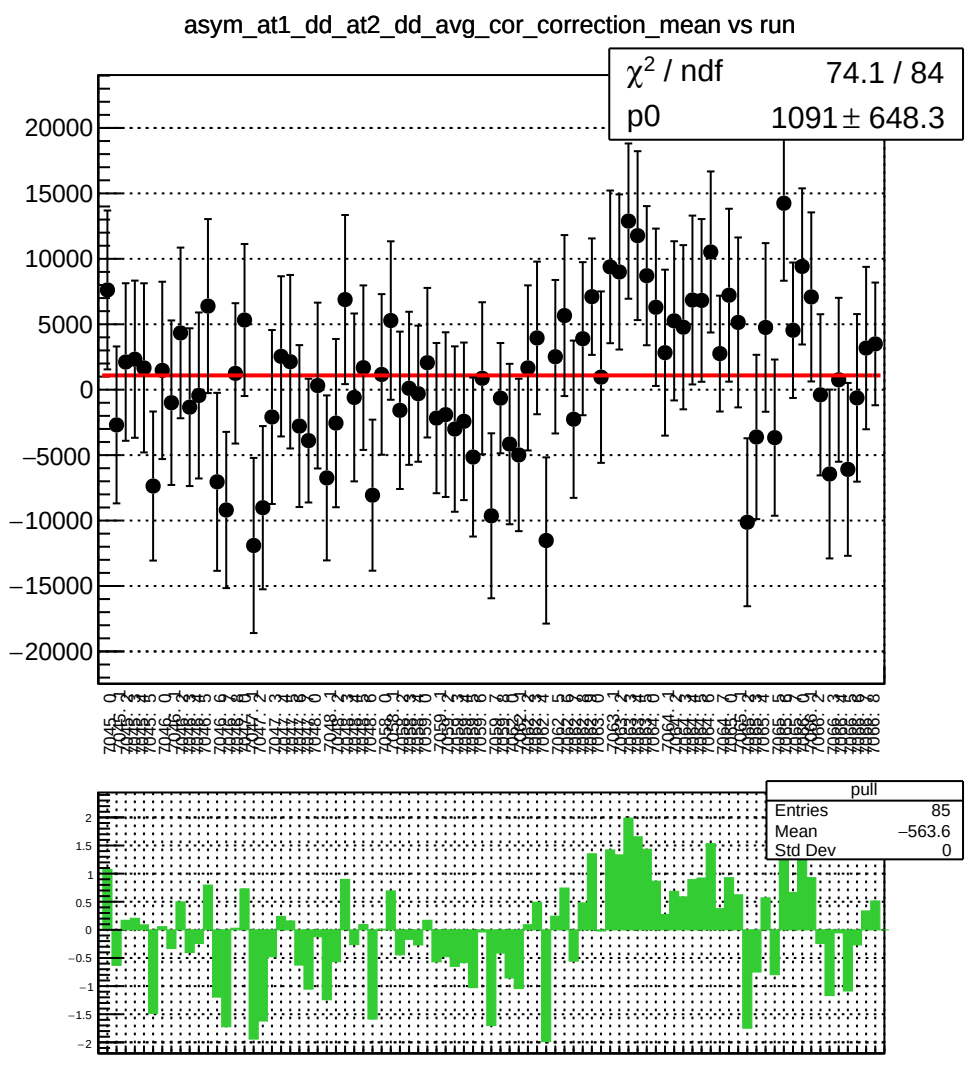

pull1D
Entries 85
Mean −0.0112
Std Dev 0.9337

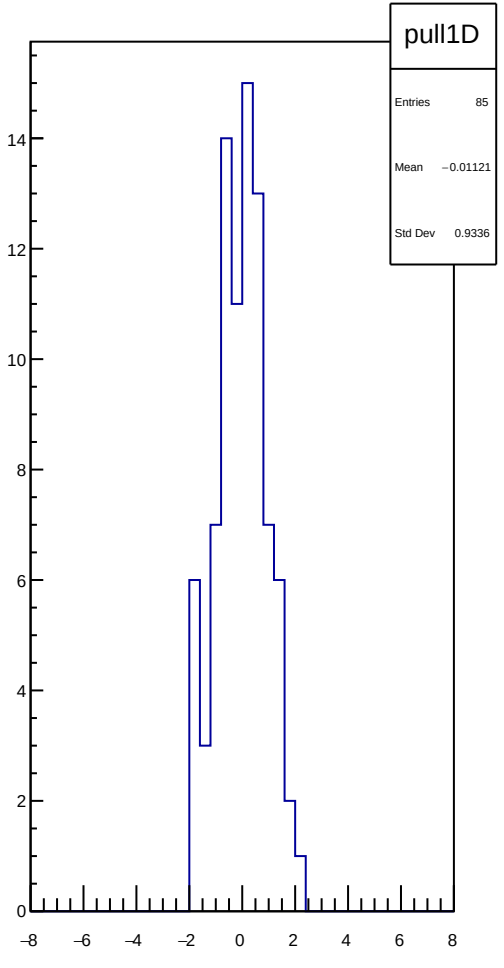

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2962 / 84
p0 587.8 ± 0.4584
660
640
620
600
580
560
540

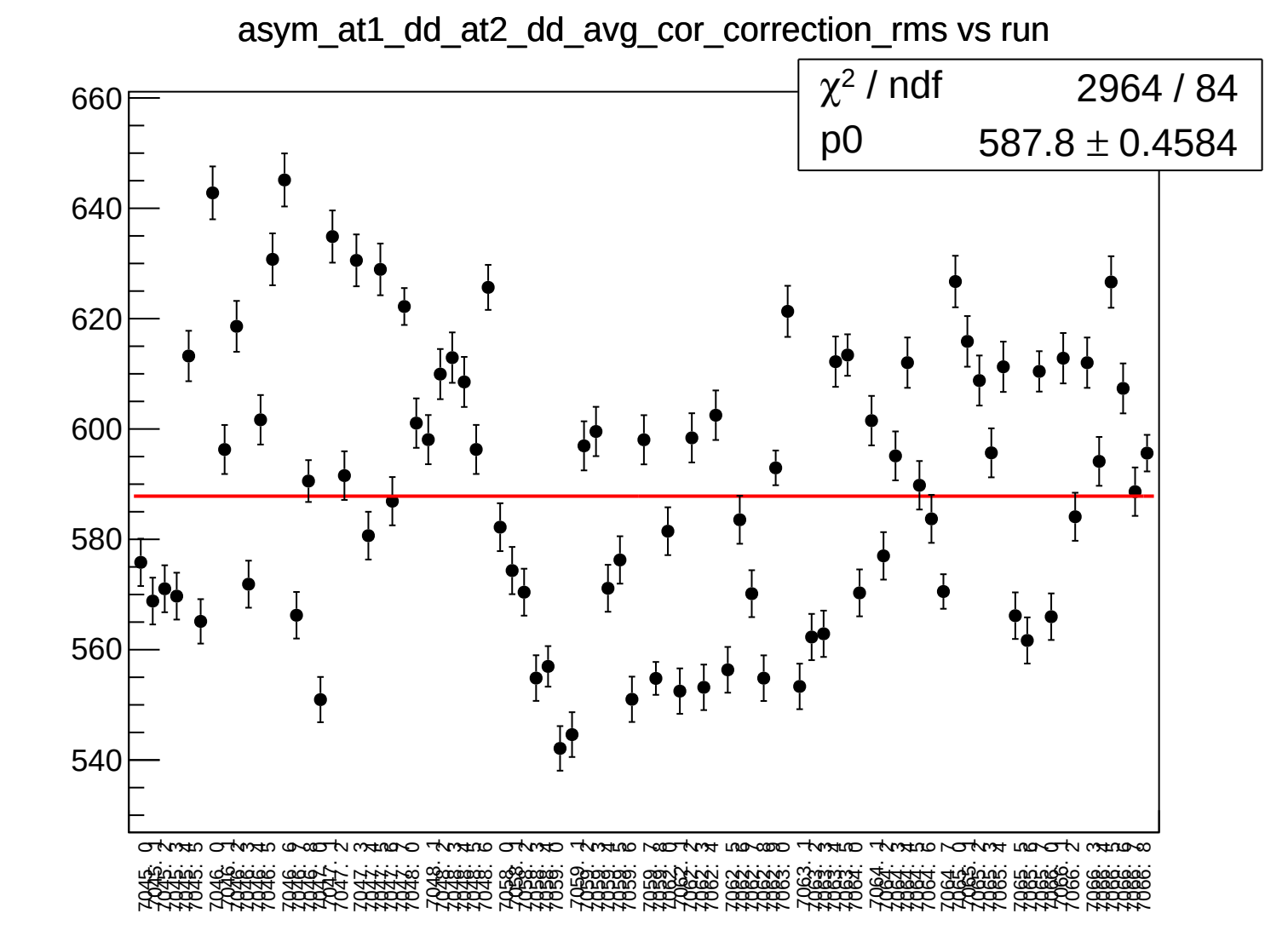

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.32 / 84
p0 −117.7 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 70.44
Std Dev 59.66
2
1
0
−1
−2

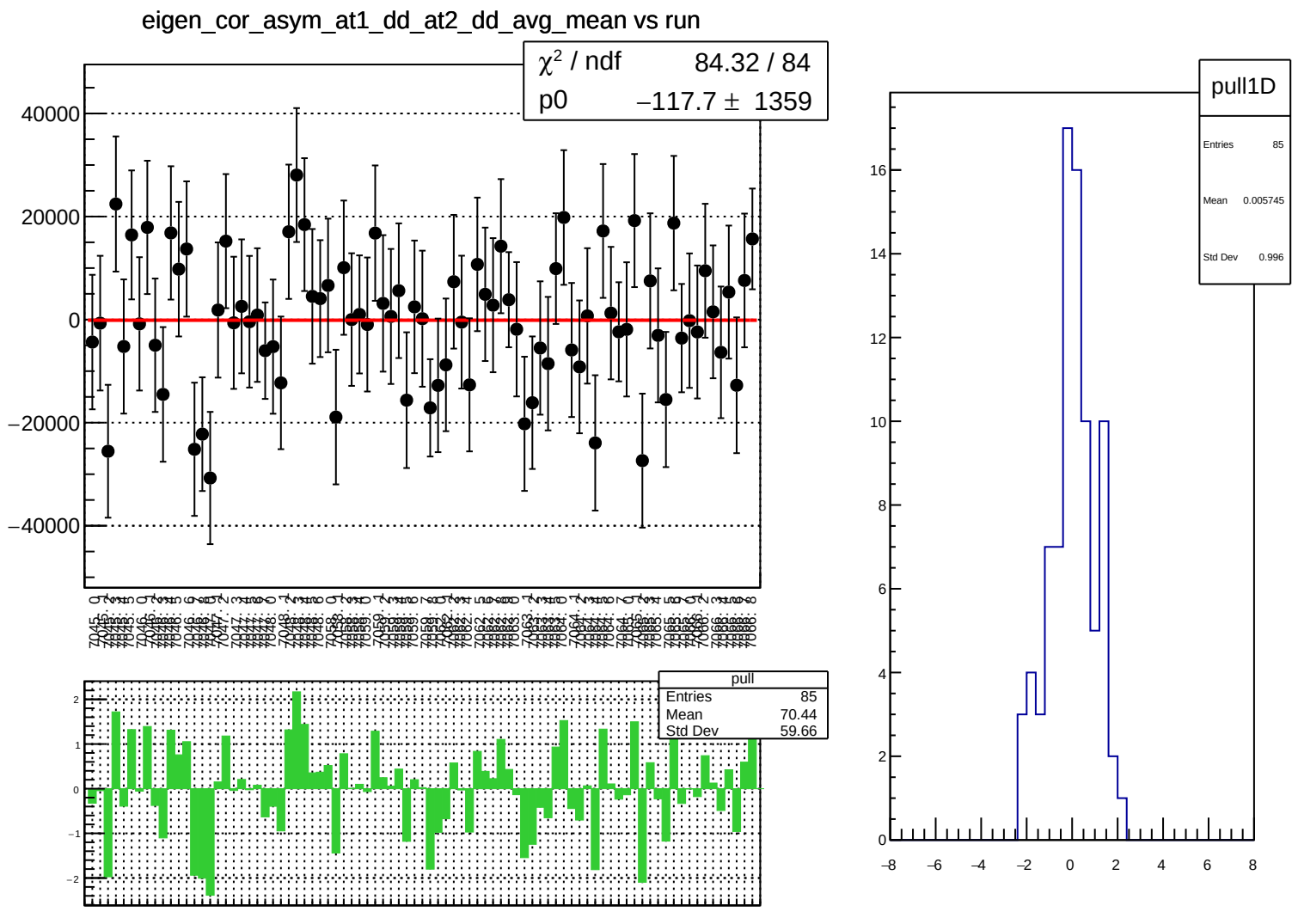

pull1D
Entries 85
Mean 0.005745
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

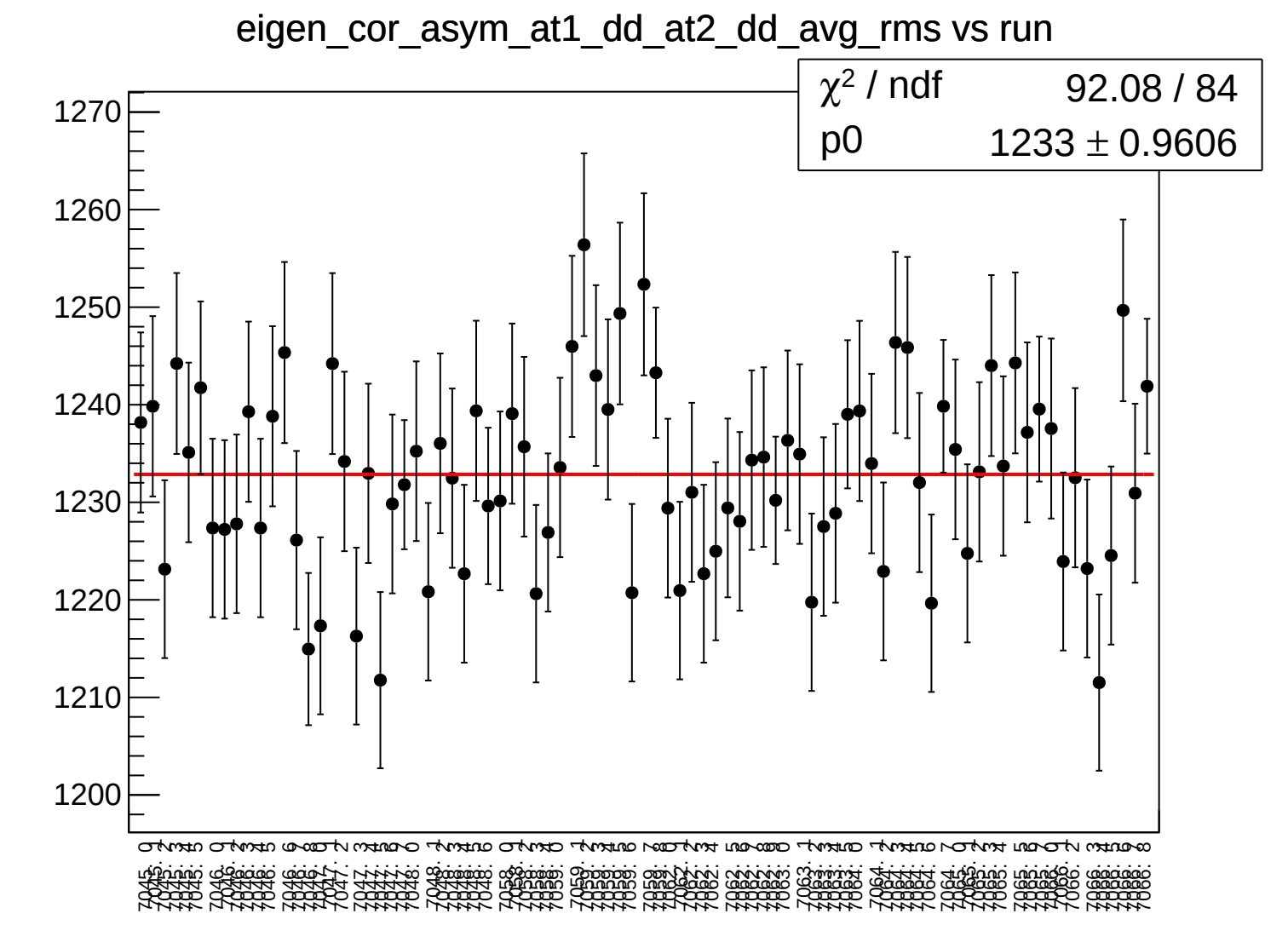

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.08 / 84
p0 1233 ± 0.9606
1270
1260
1250
1240
1230
1220
1210
1200

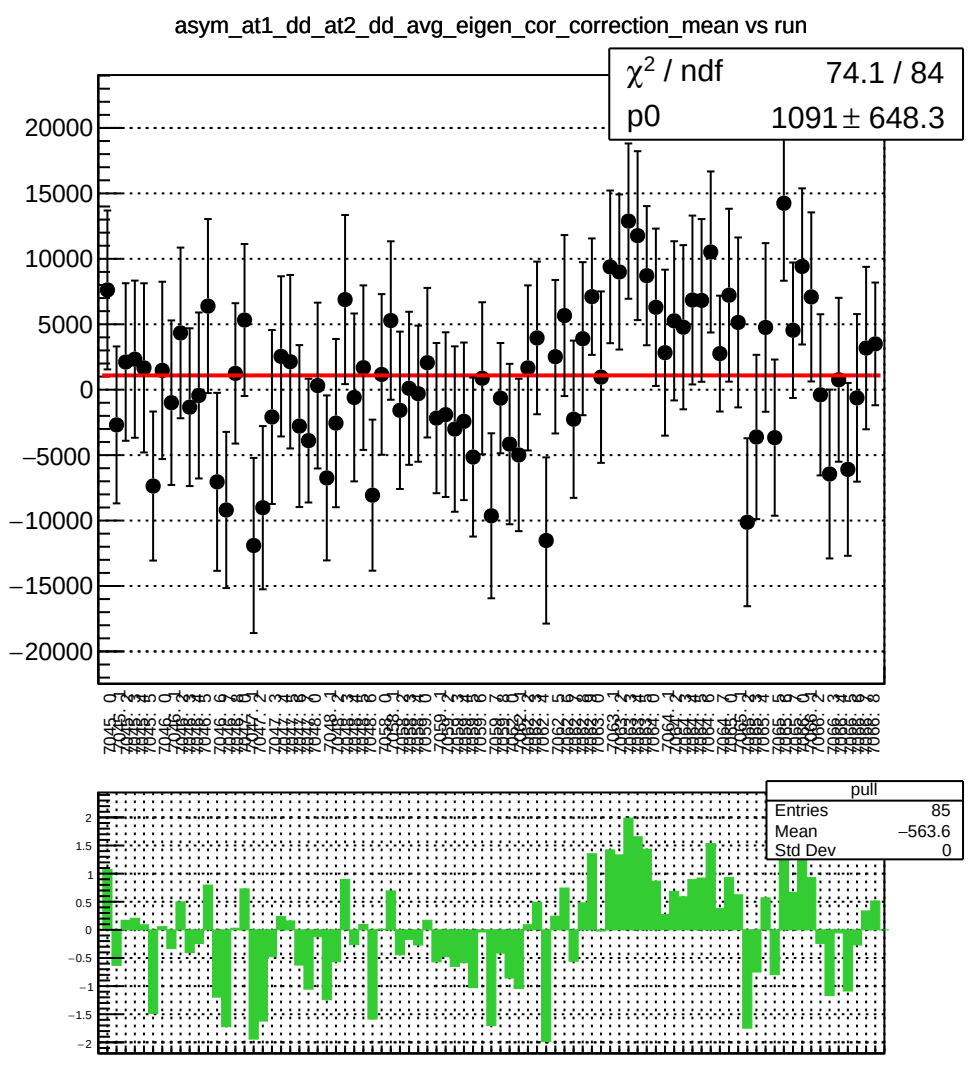

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 74.1 / 84
p0 1091 ± 648.3
pull
Entries 85
Mean −563.6
Std Dev 0

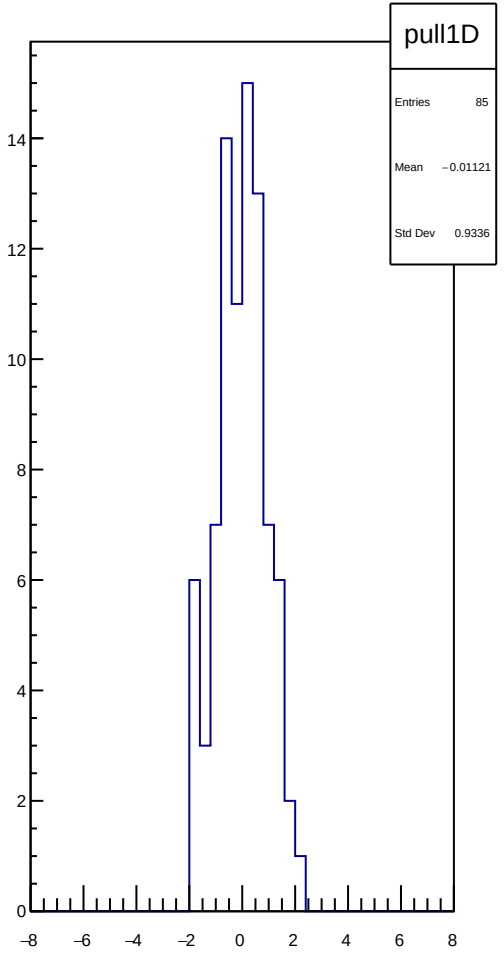

pull1D
Entries 85
Mean −0.01121
Std Dev 0.9336

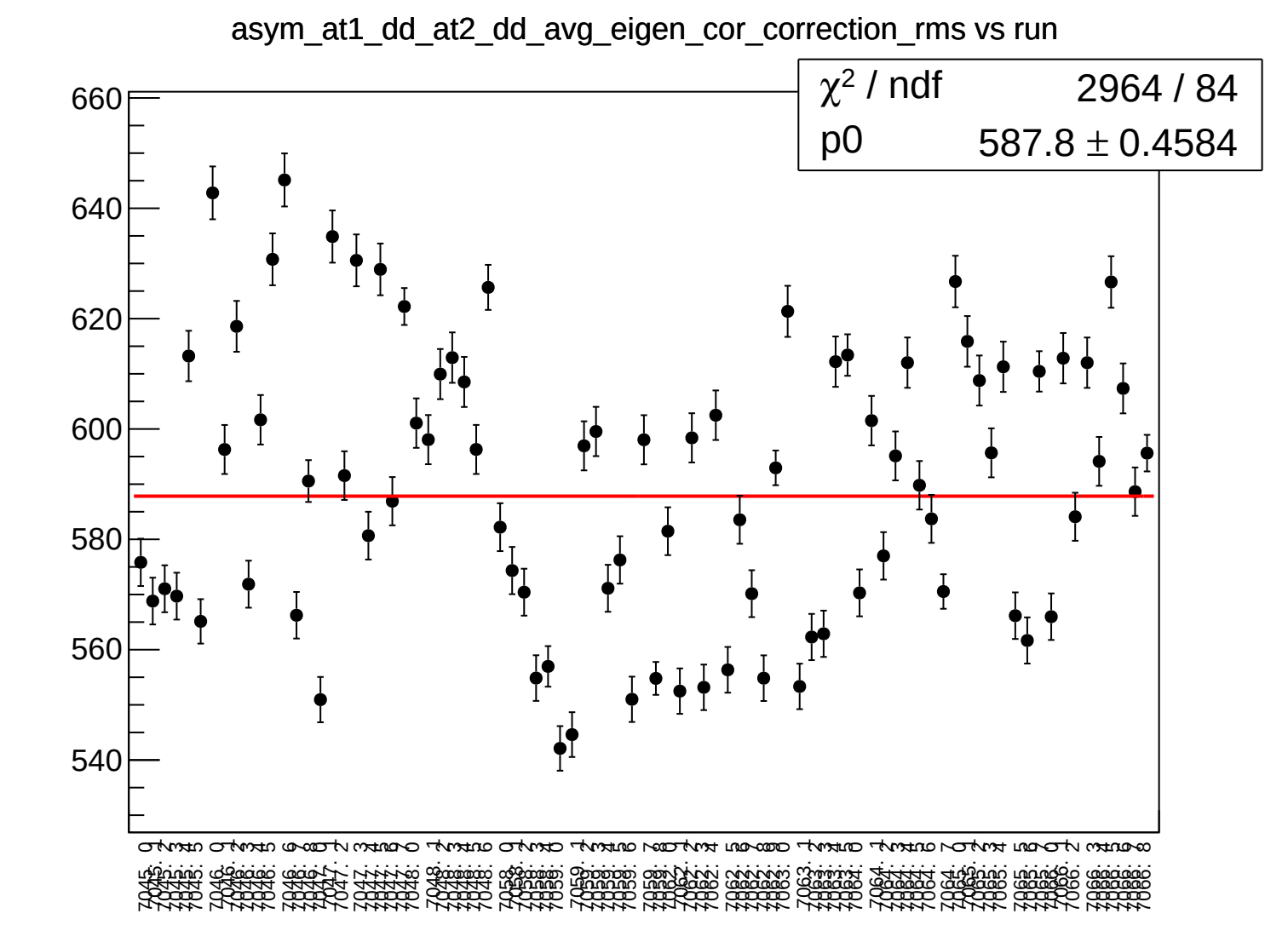

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2964 / 84
p0 587.8 ± 0.4584
660
640
620
600
580
560
540

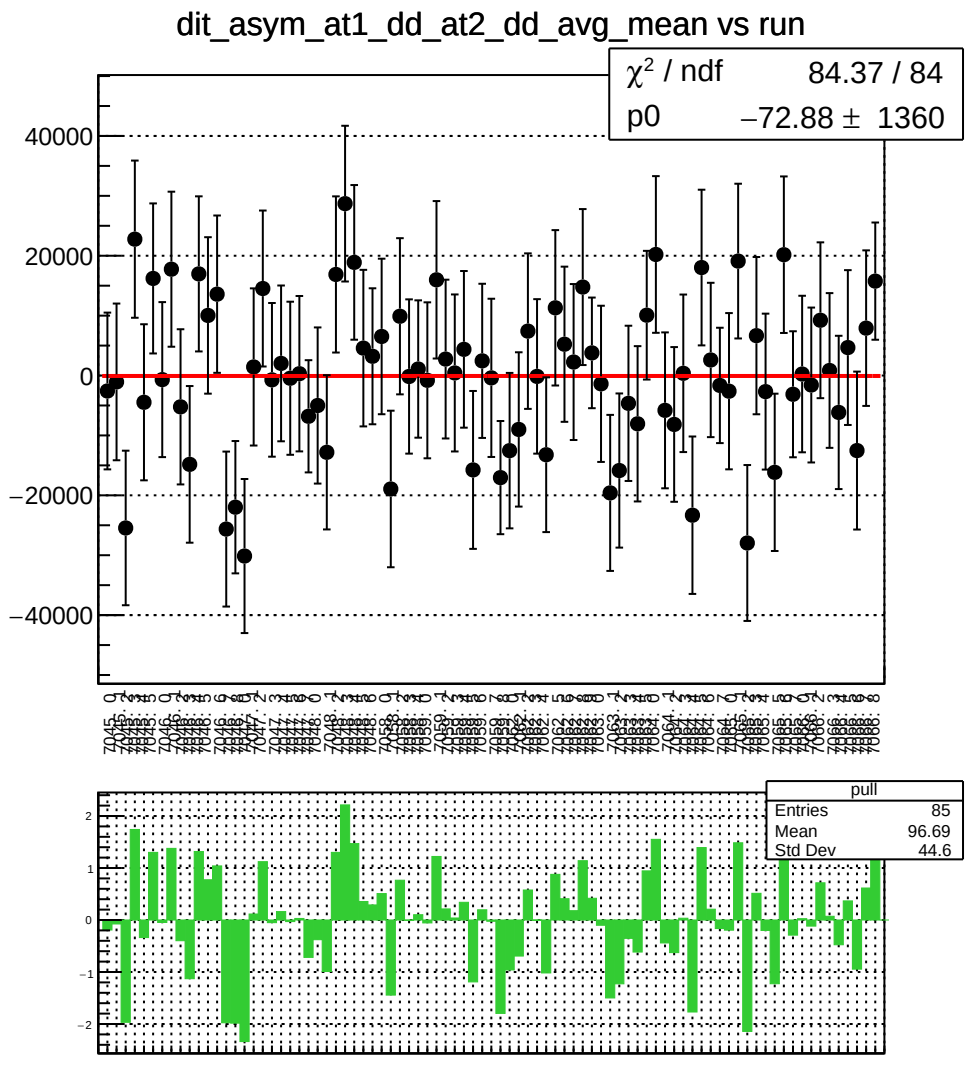

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.32 / 84
p0 −117.7 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 70.44
Std Dev 59.66
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005745
Std Dev 0.996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

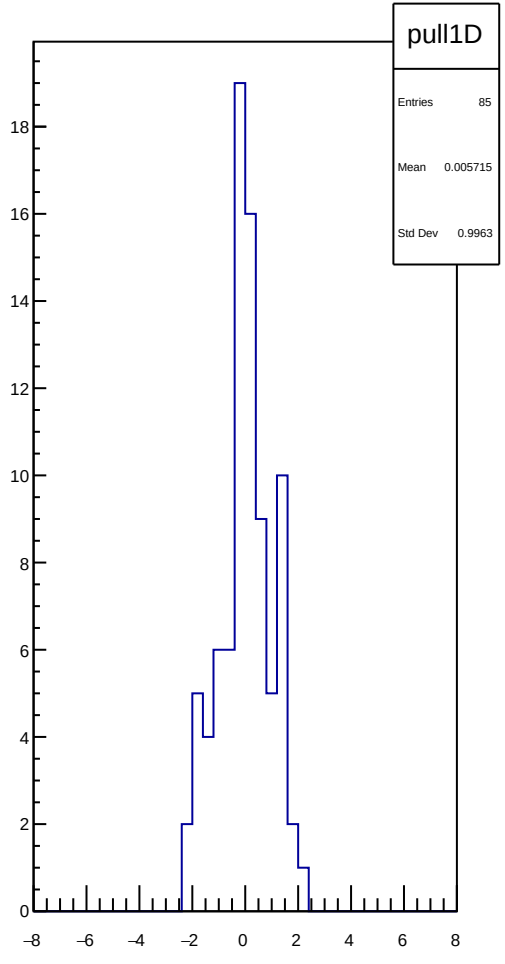

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.08 / 84
p0 1233 ± 0.9606
1270
1260
1250
1240
1230
1220
1210
1200

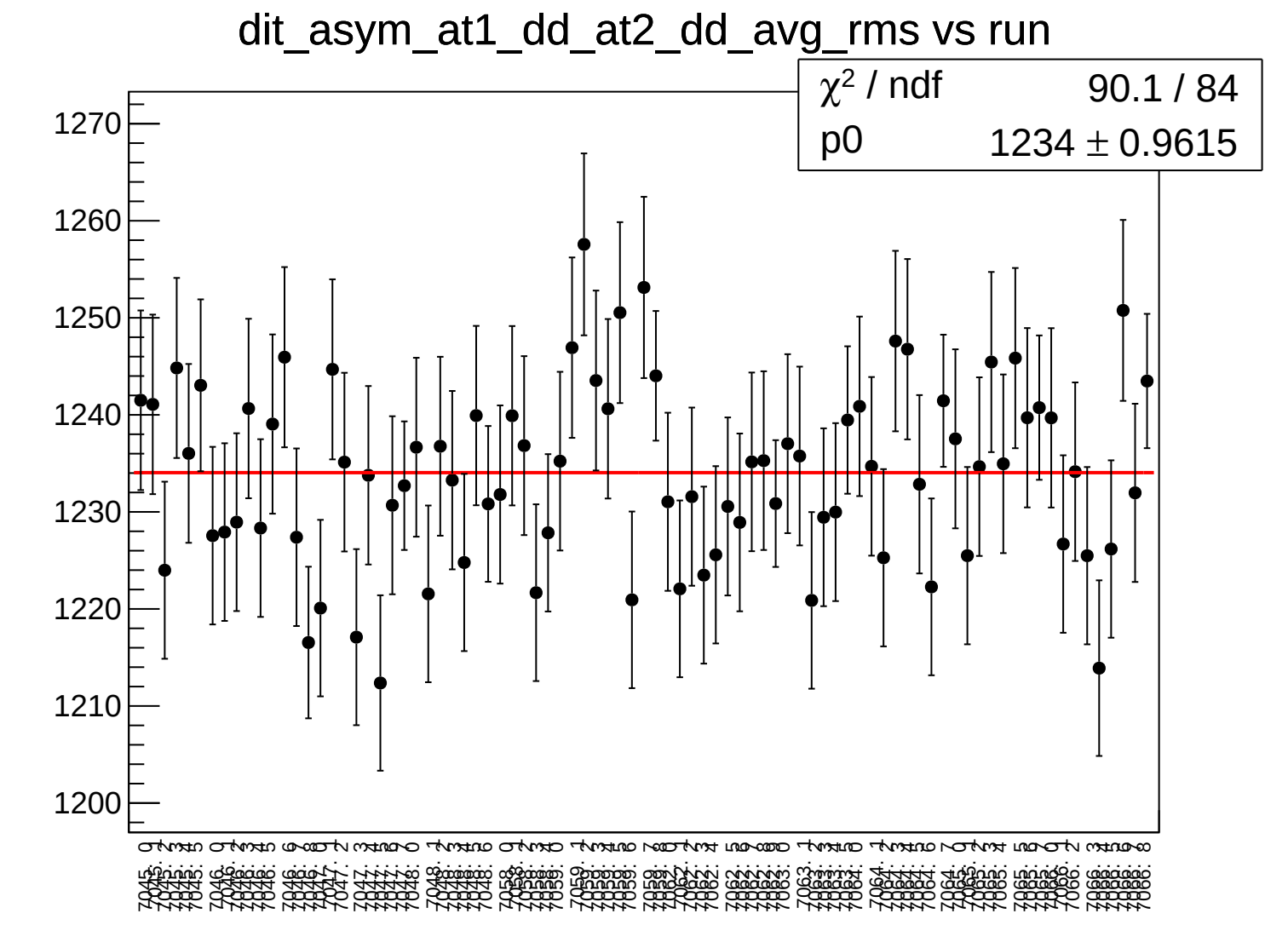

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.1 / 84
p0 1091 ± 648.3
pull
Entries 85
Mean −563.6
Std Dev 0

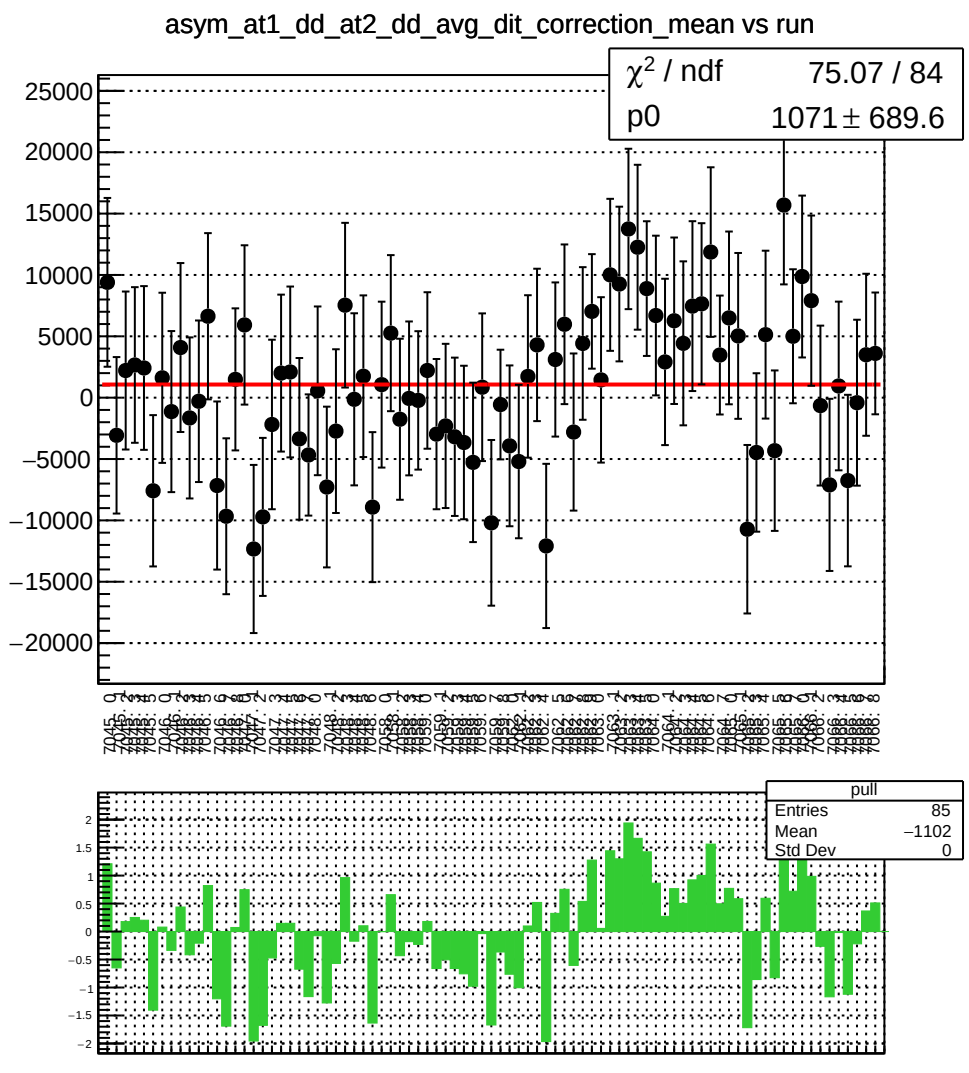

pull1D
Entries 85
Mean −0.01121
Std Dev 0.9336

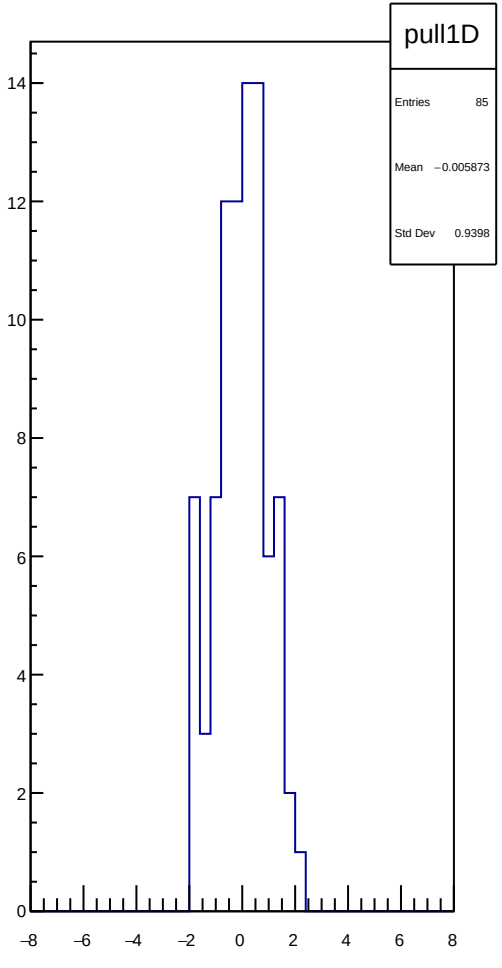

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2964 / 84
p0 587.8 ± 0.4584
660
640
620
600
580
560
540

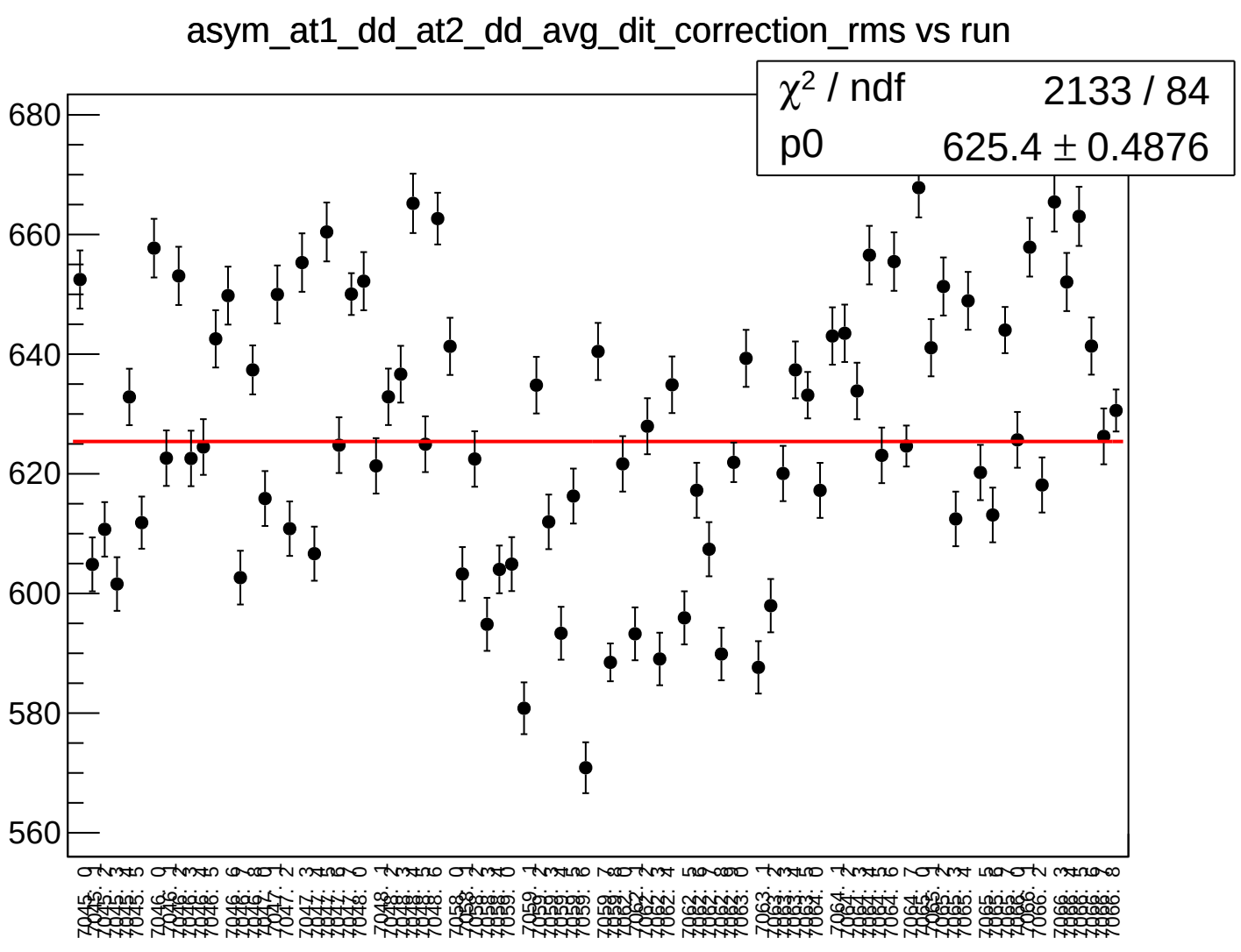

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.37 / 84
p0 −72.88 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 96.69
Std Dev 44.6
2
1
0
−1
−2

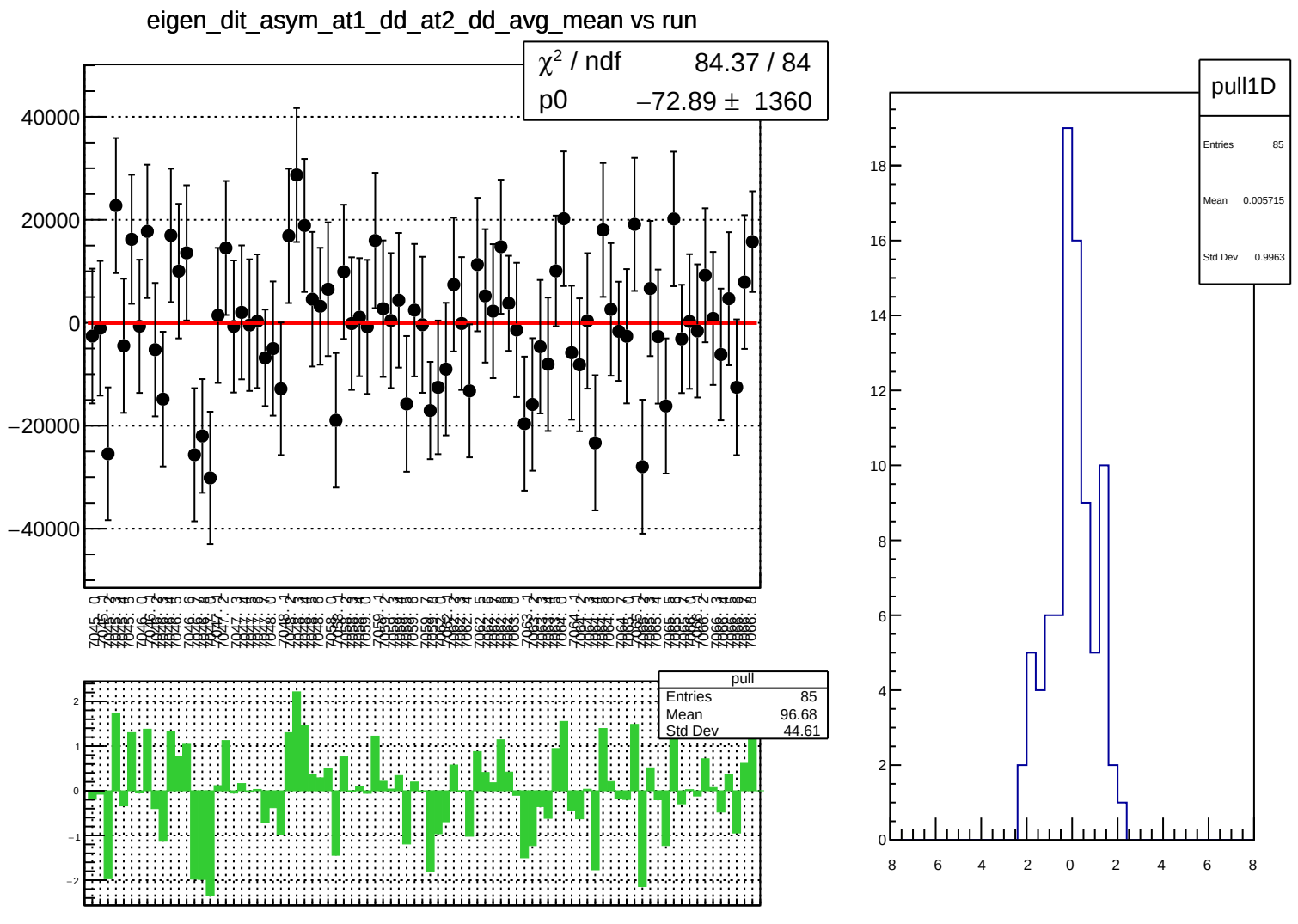

pull1D
Entries 85
Mean 0.005715
Std Dev 0.9963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

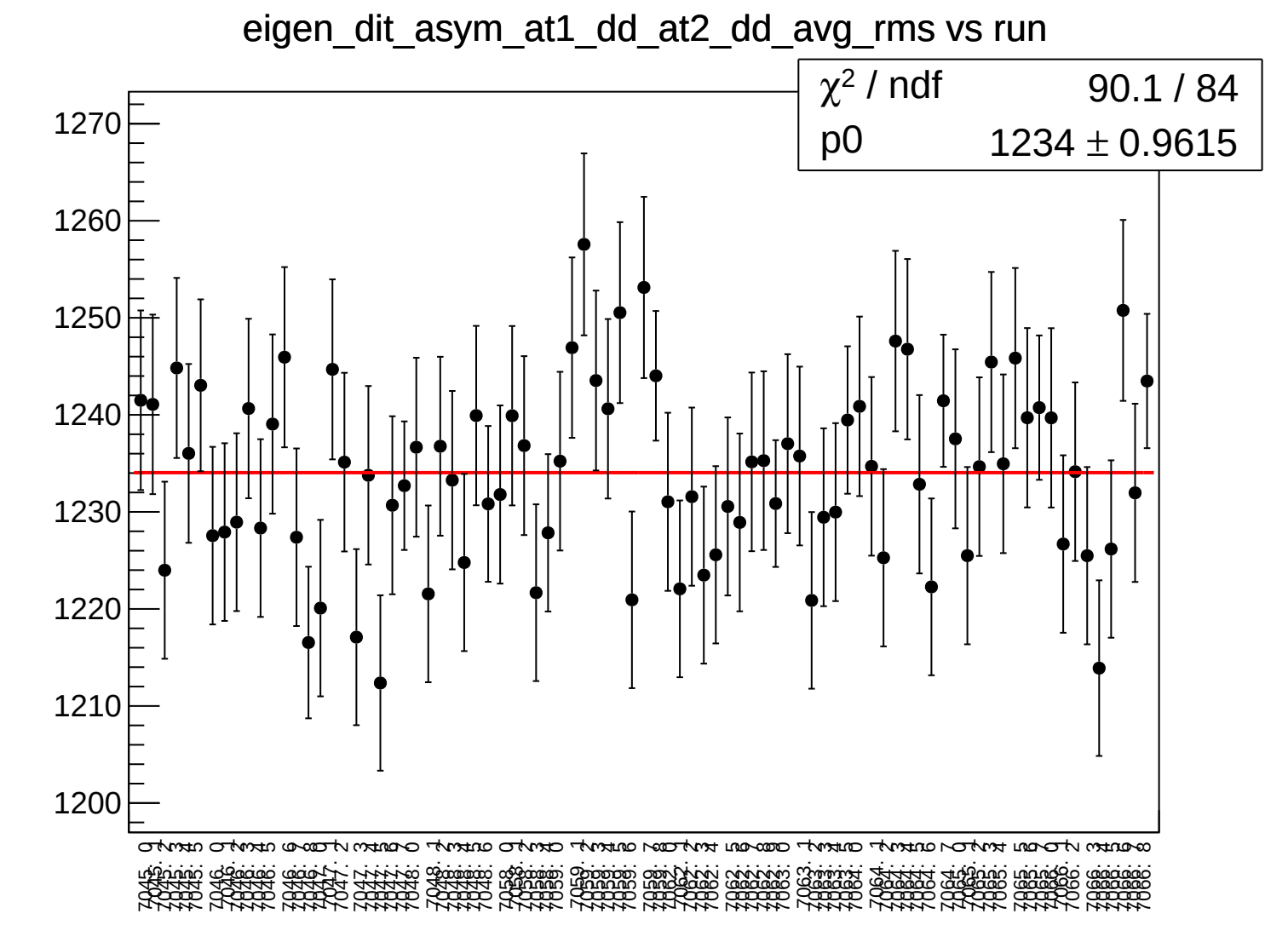

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 90.1 / 84
p0 1234 ± 0.9615
1270
1260
1250
1240
1230
1220
1210
1200

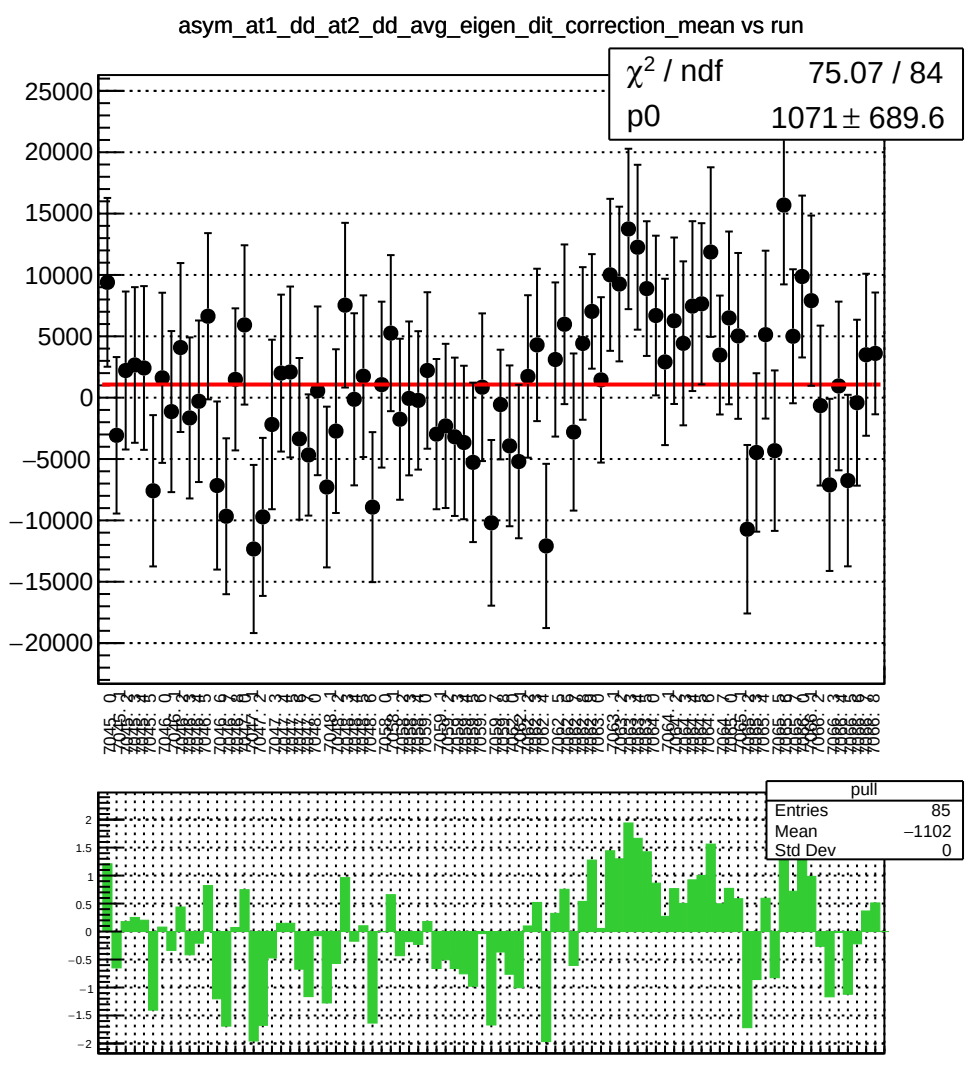

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 75.07 / 84
p0 1071 ± 689.6
pull
Entries 85
Mean −1102
Std Dev 0

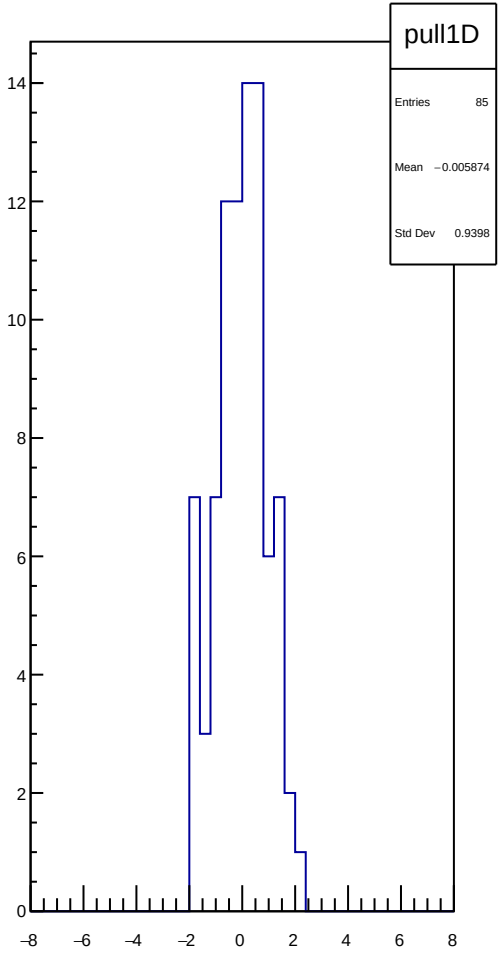

pull1D
Entries 85
Mean −0.005873
Std Dev 0.9398

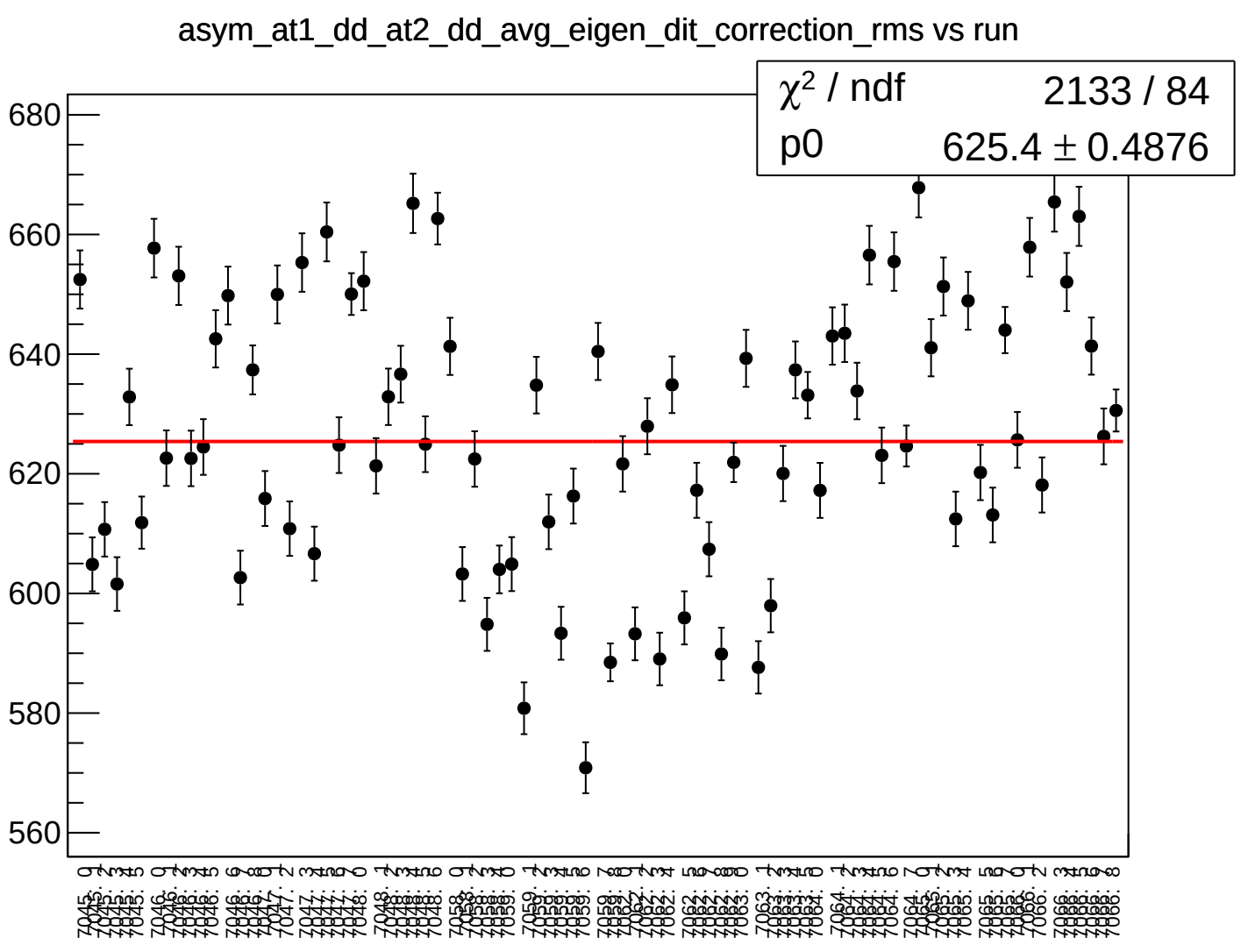

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2133 / 84
p0 625.4 ± 0.4876
680
660
640
620
600
580
560

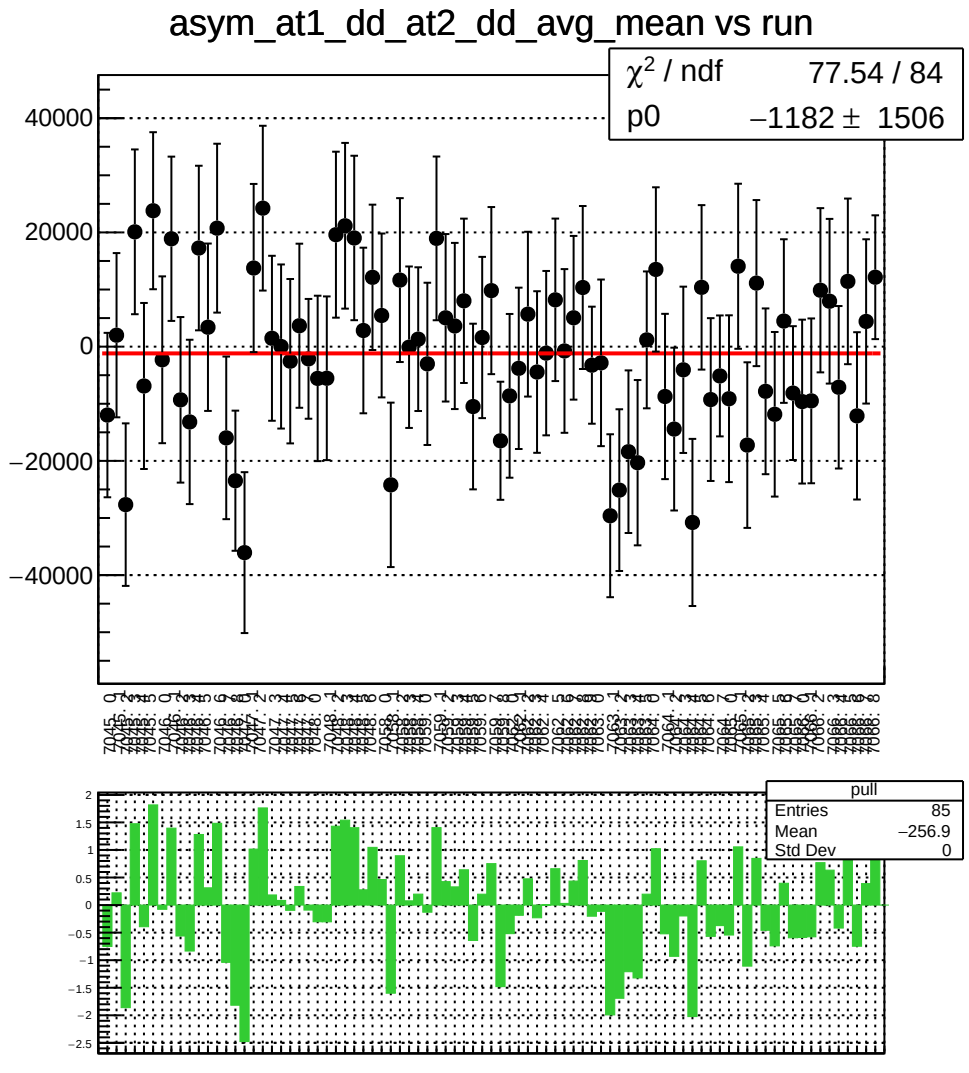

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.37 / 84
p0 −72.89 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 96.68
Std Dev 44.61
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005715
Std Dev 0.9963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

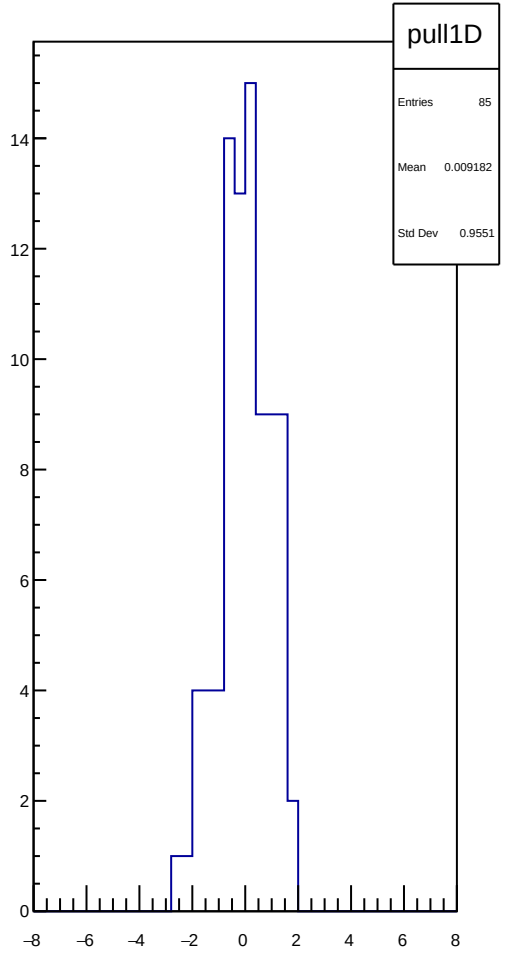

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 90.1 / 84
p0 1234 ± 0.9615
1270
1260
1250
1240
1230
1220
1210
1200

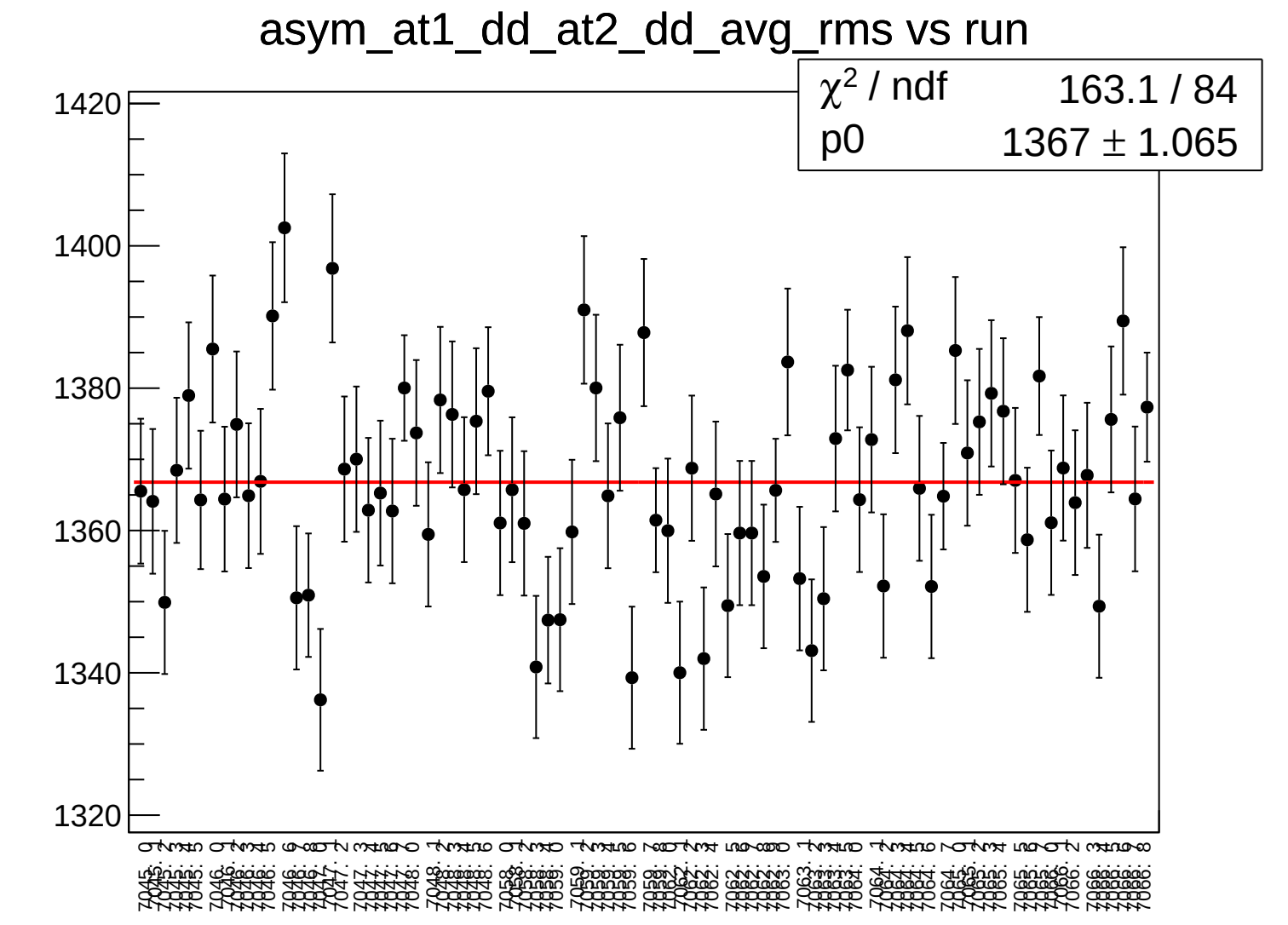

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.07 / 84
p0 1071 ± 689.6
pull
Entries 85
Mean −1102
Std Dev 0

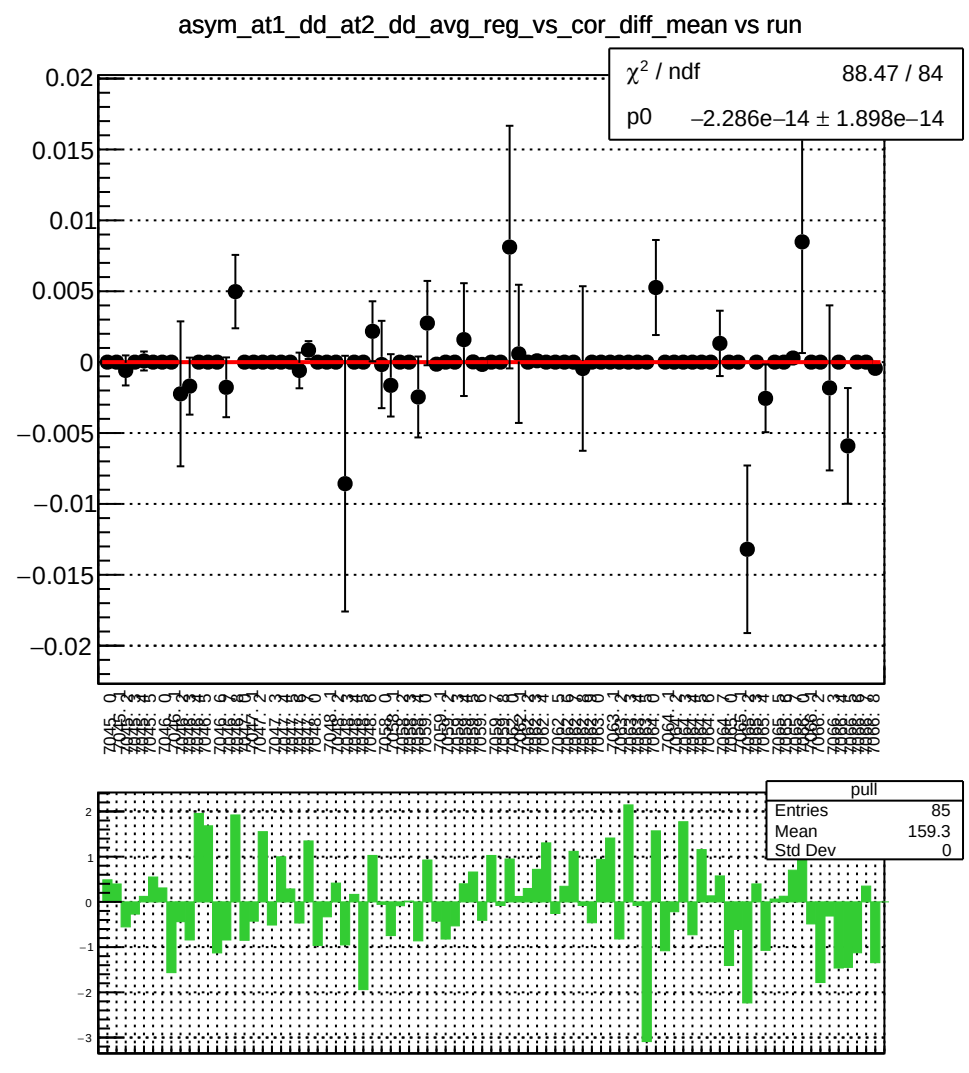

pull1D
Entries 85
Mean −0.005874
Std Dev 0.9398

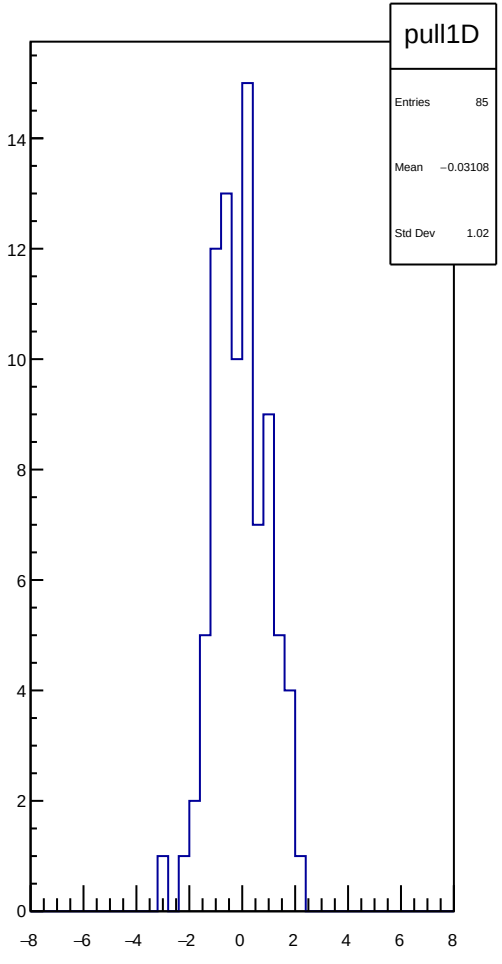

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2133 / 84
p0 625.4 ± 0.4876
680
660
640
620
600
580
560

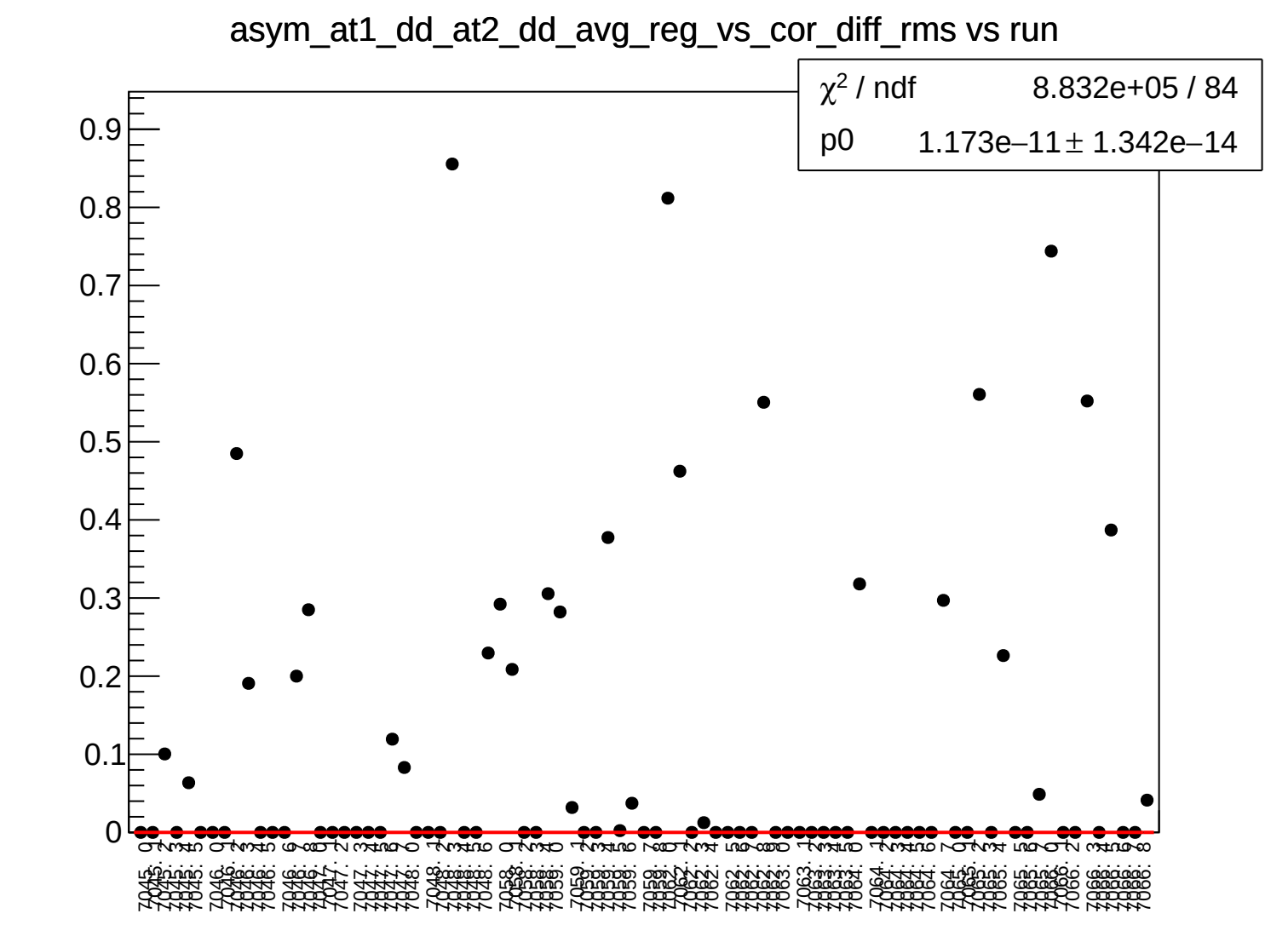

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.54 / 84
p0 −1182 ± 1506
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −256.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

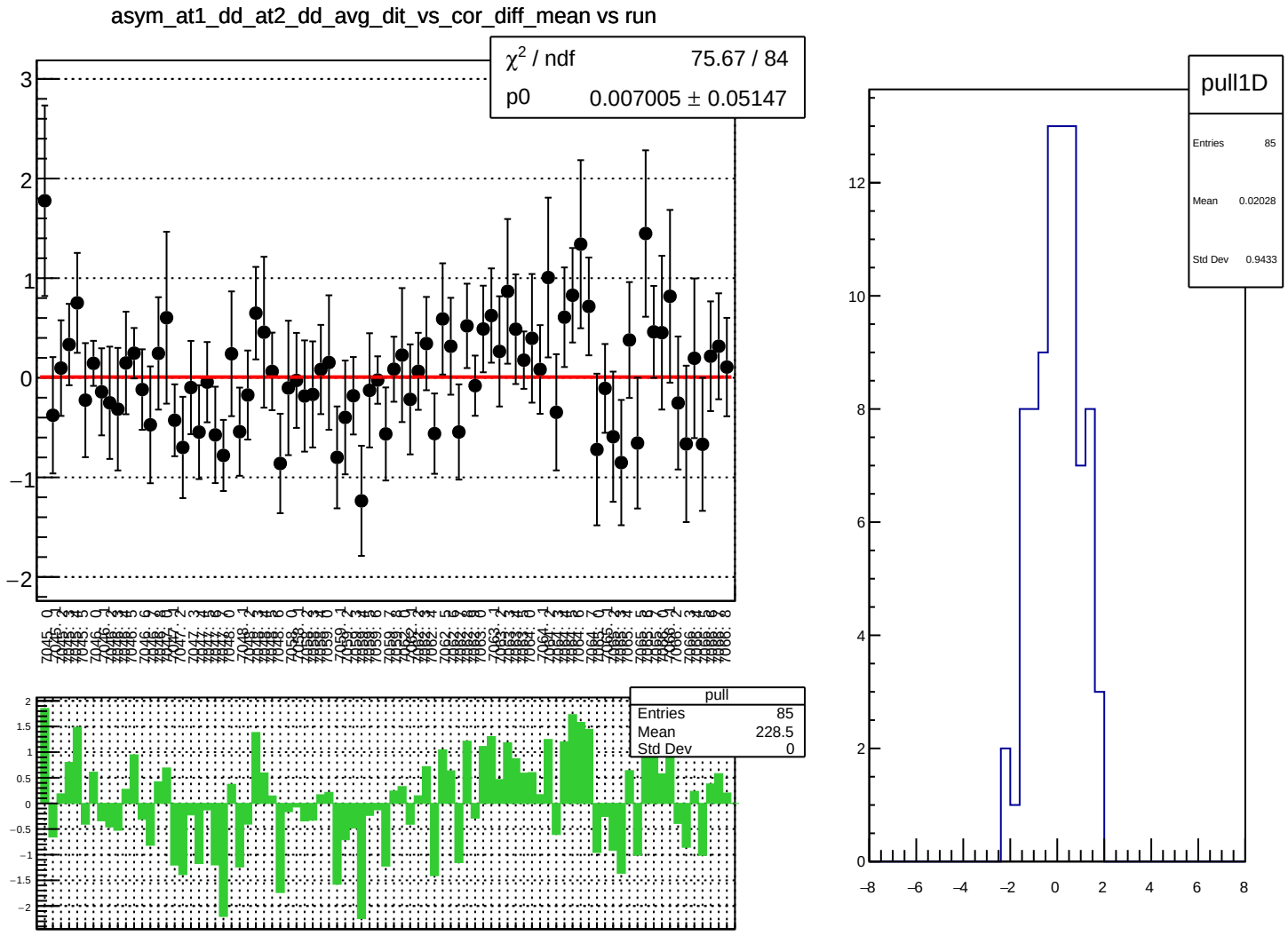

pull1D
Entries 85
Mean 0.009182
Std Dev 0.9551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

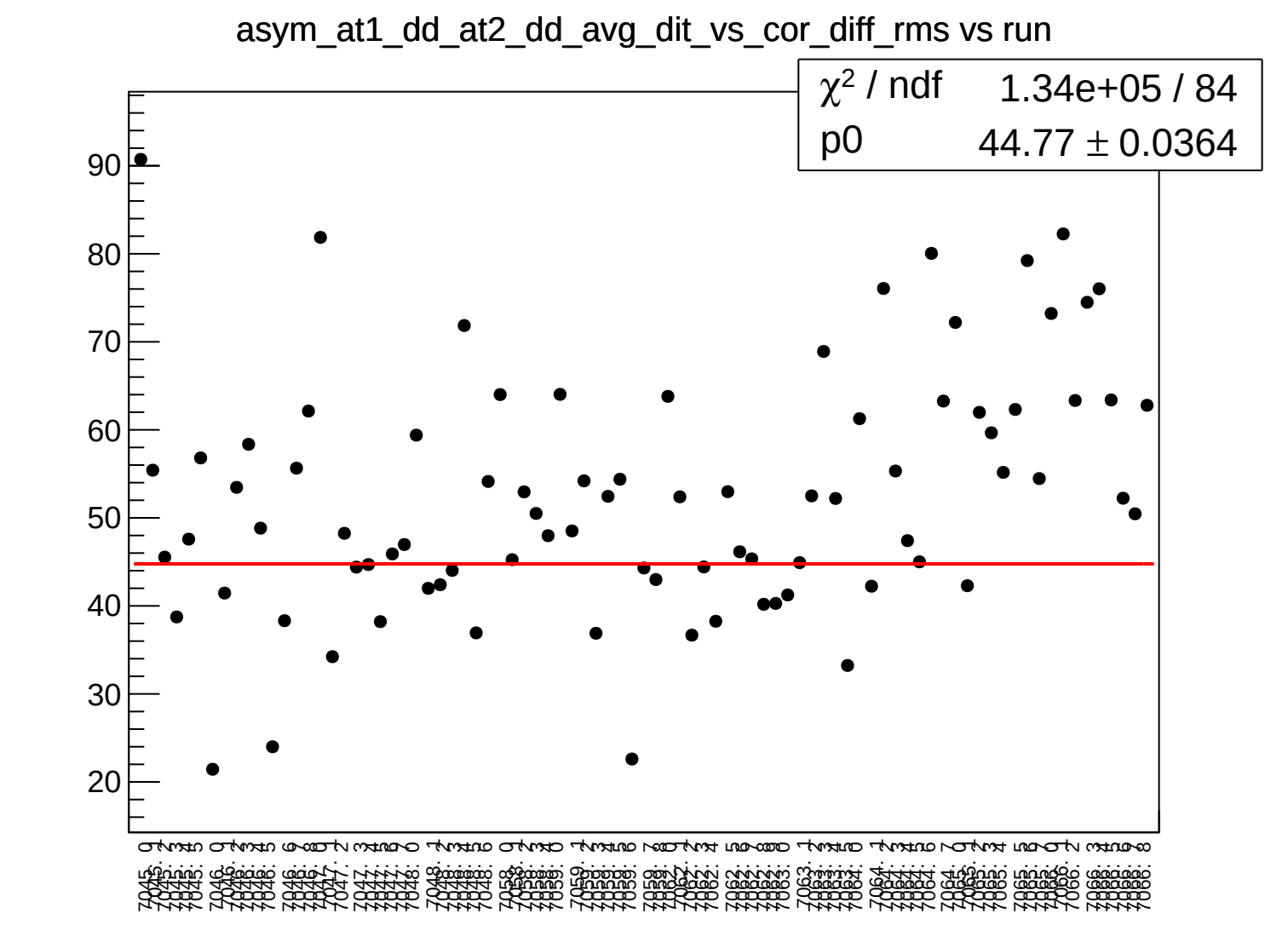

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 163.1 / 84
p0 1367 ± 1.065
1420
1400
1380
1360
1340
1320

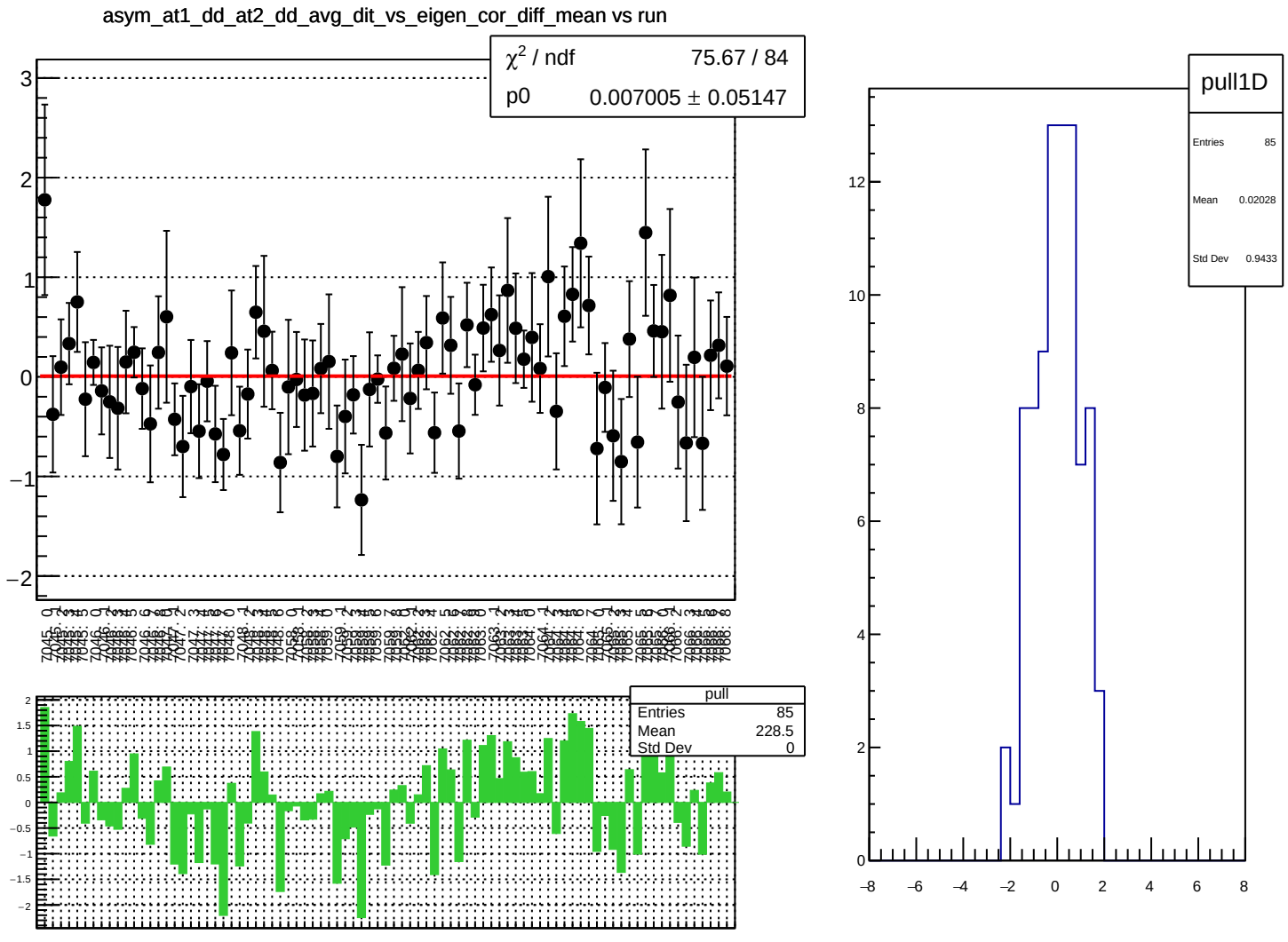

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.47 / 84
p0 −2.286e−14 ± 1.898e−14
pull
Entries 85
Mean 159.3
Std Dev 0

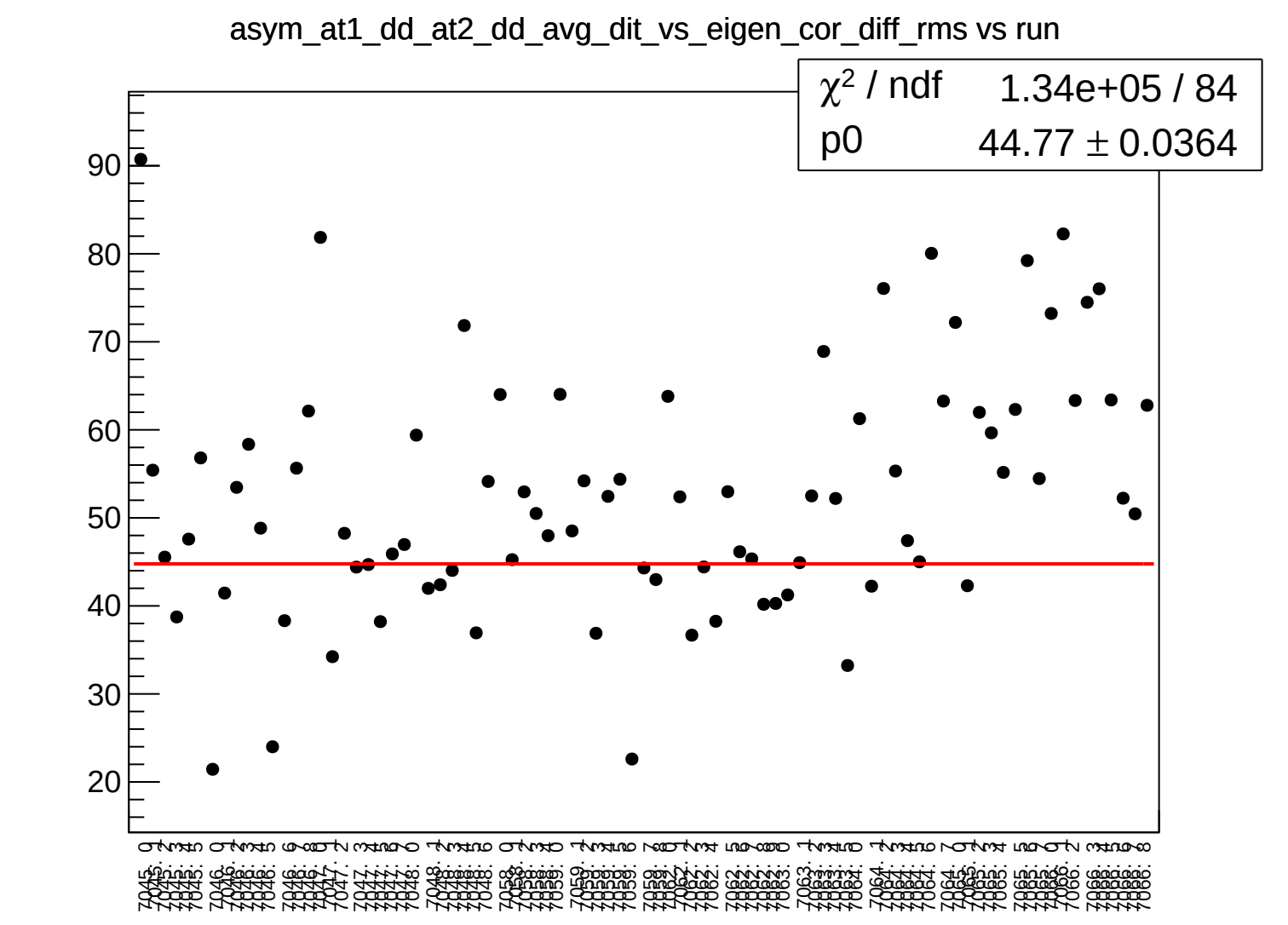

pull1D
Entries 85
Mean −0.03108
Std Dev 1.02

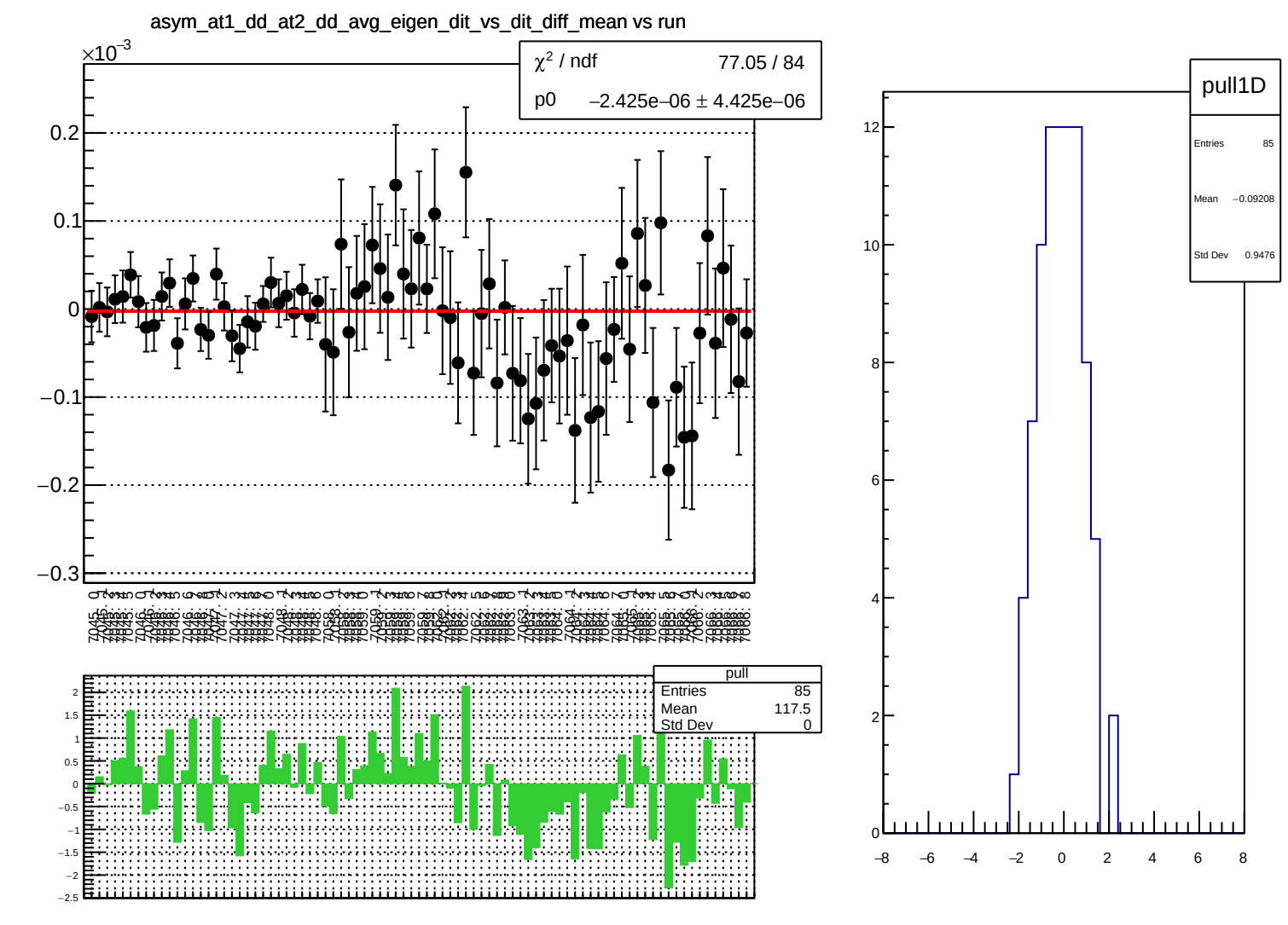

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.832e+05 / 84
p0 1.173e−11 ± 1.342e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

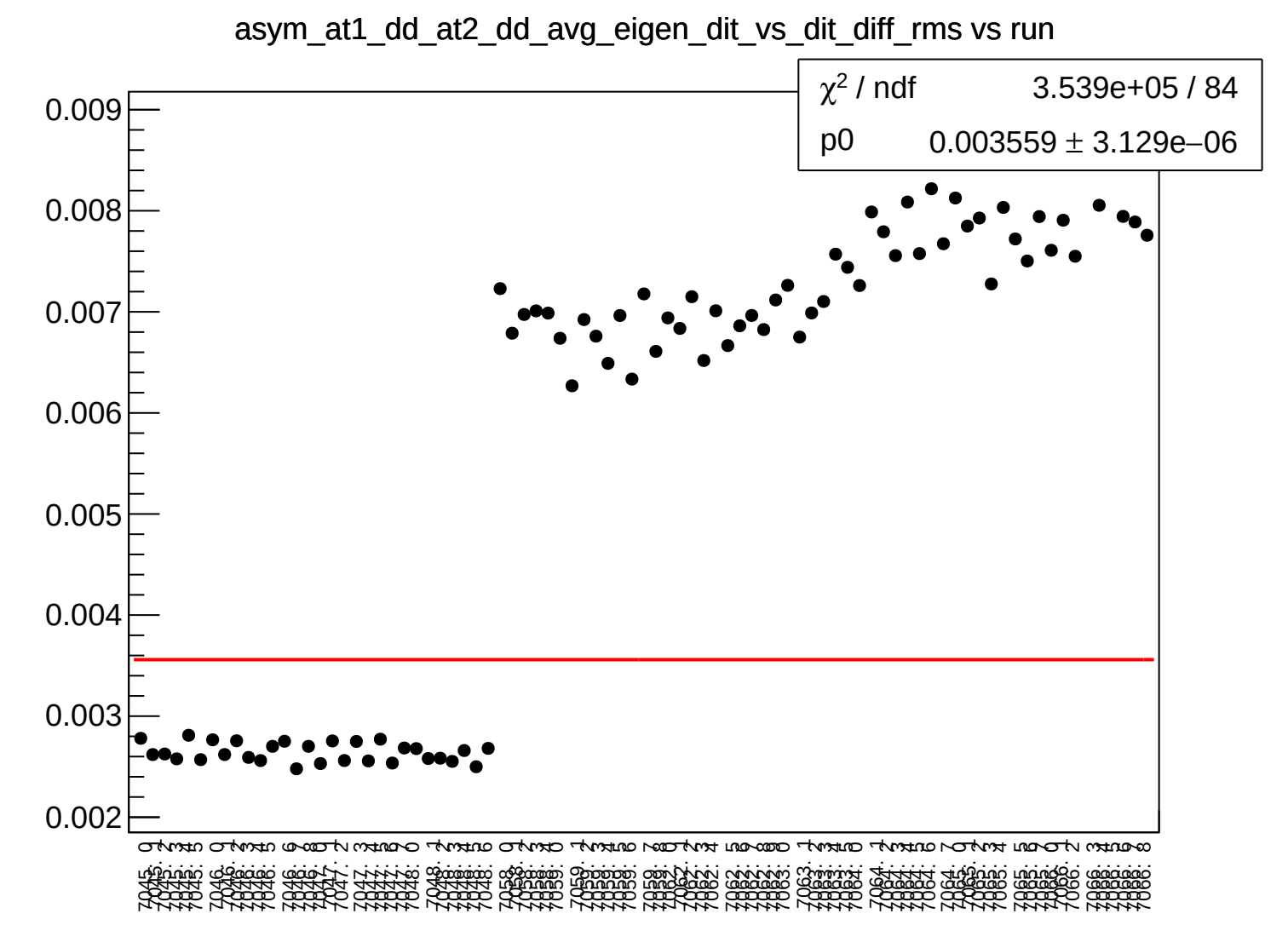

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007005 ± 0.05147
pull
Entries 85
Mean 228.5
Std Dev 0
pull1D
Entries 85
Mean 0.02028
Std Dev 0.9433

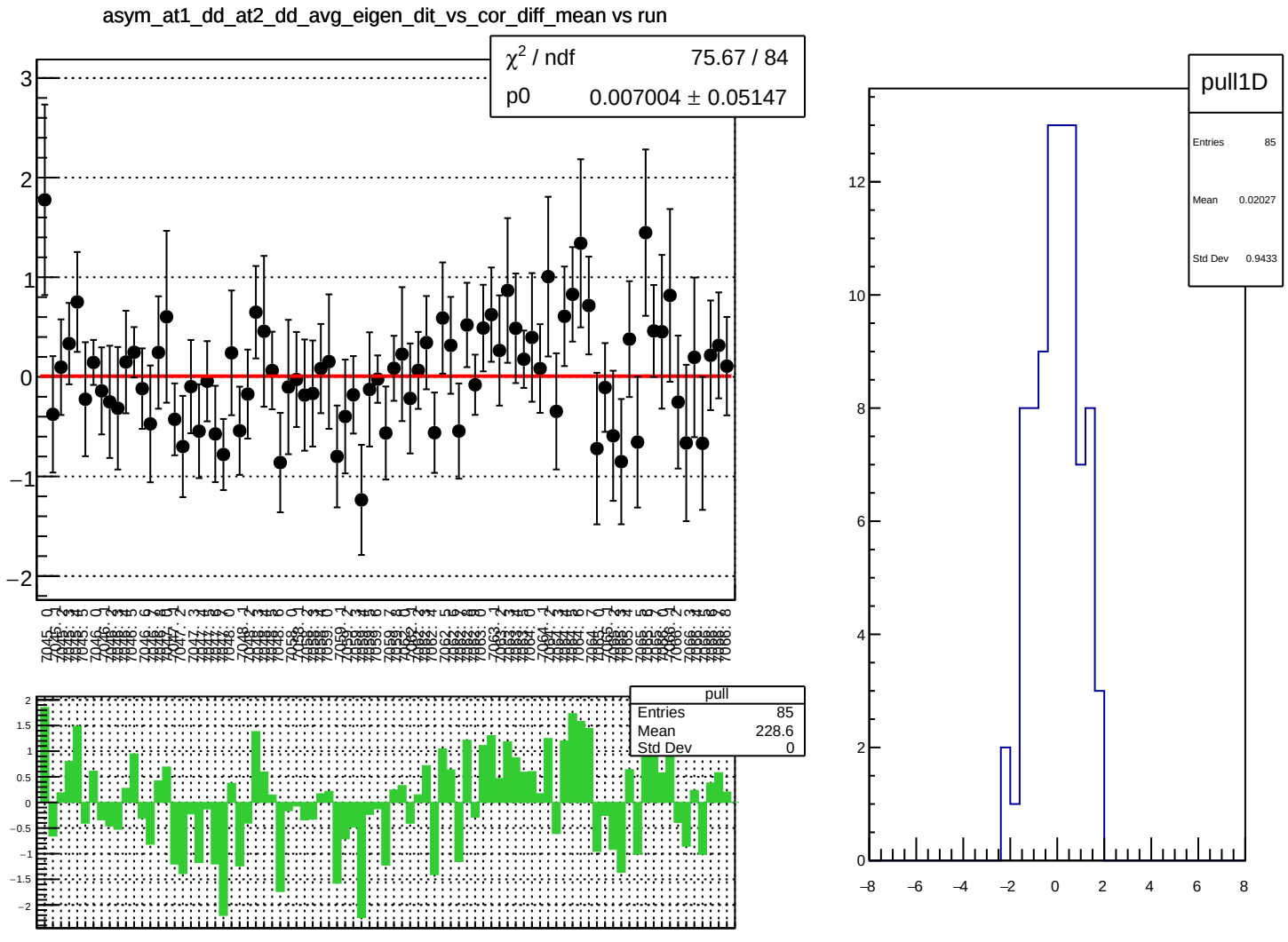

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.0364
90
80
70
60
50
40
30
20

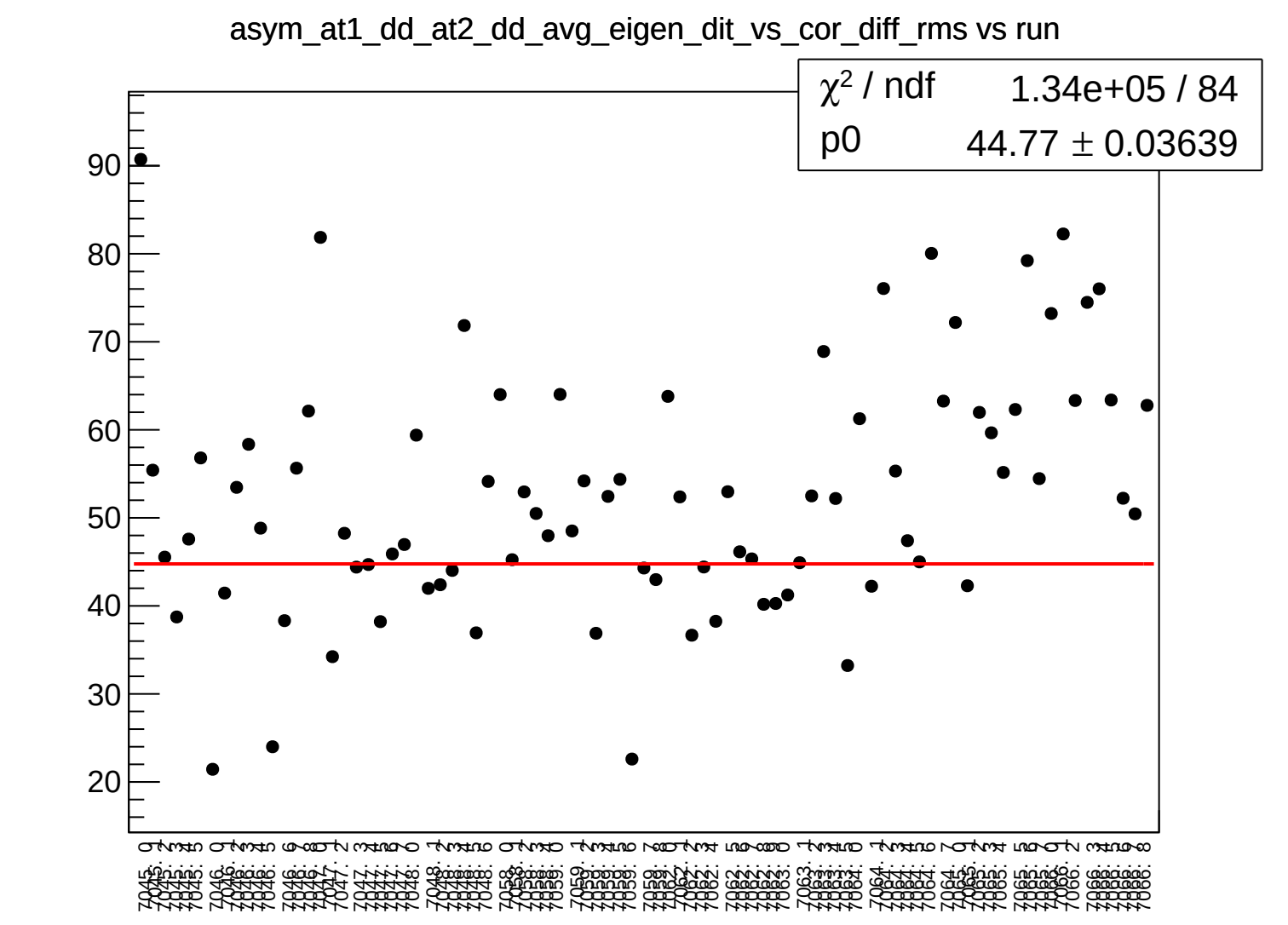

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007005 ± 0.05147
pull
Entries 85
Mean 228.5
Std Dev 0
pull1D
Entries 85
Mean 0.02028
Std Dev 0.9433

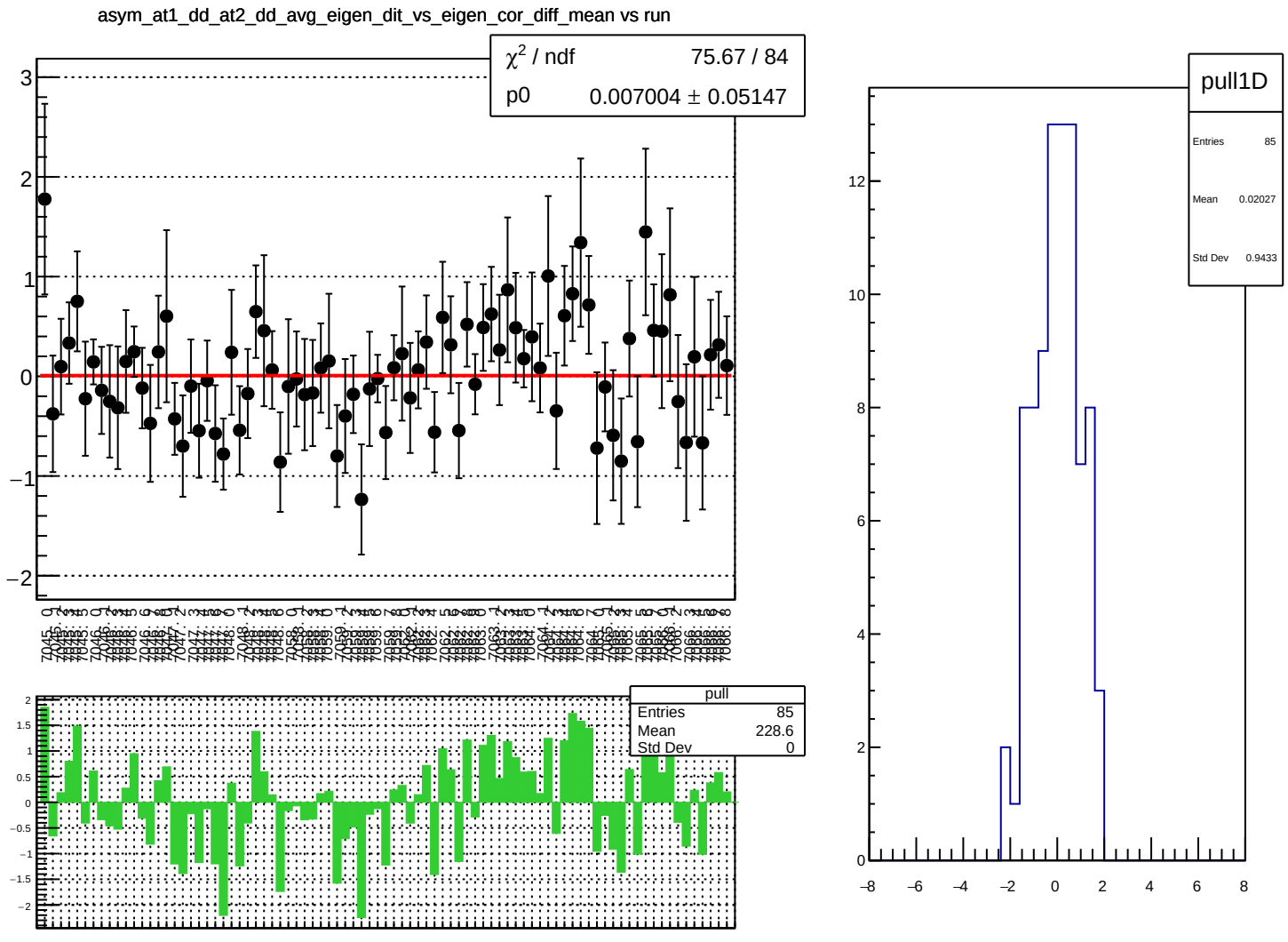

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.0364
90
80
70
60
50
40
30
20

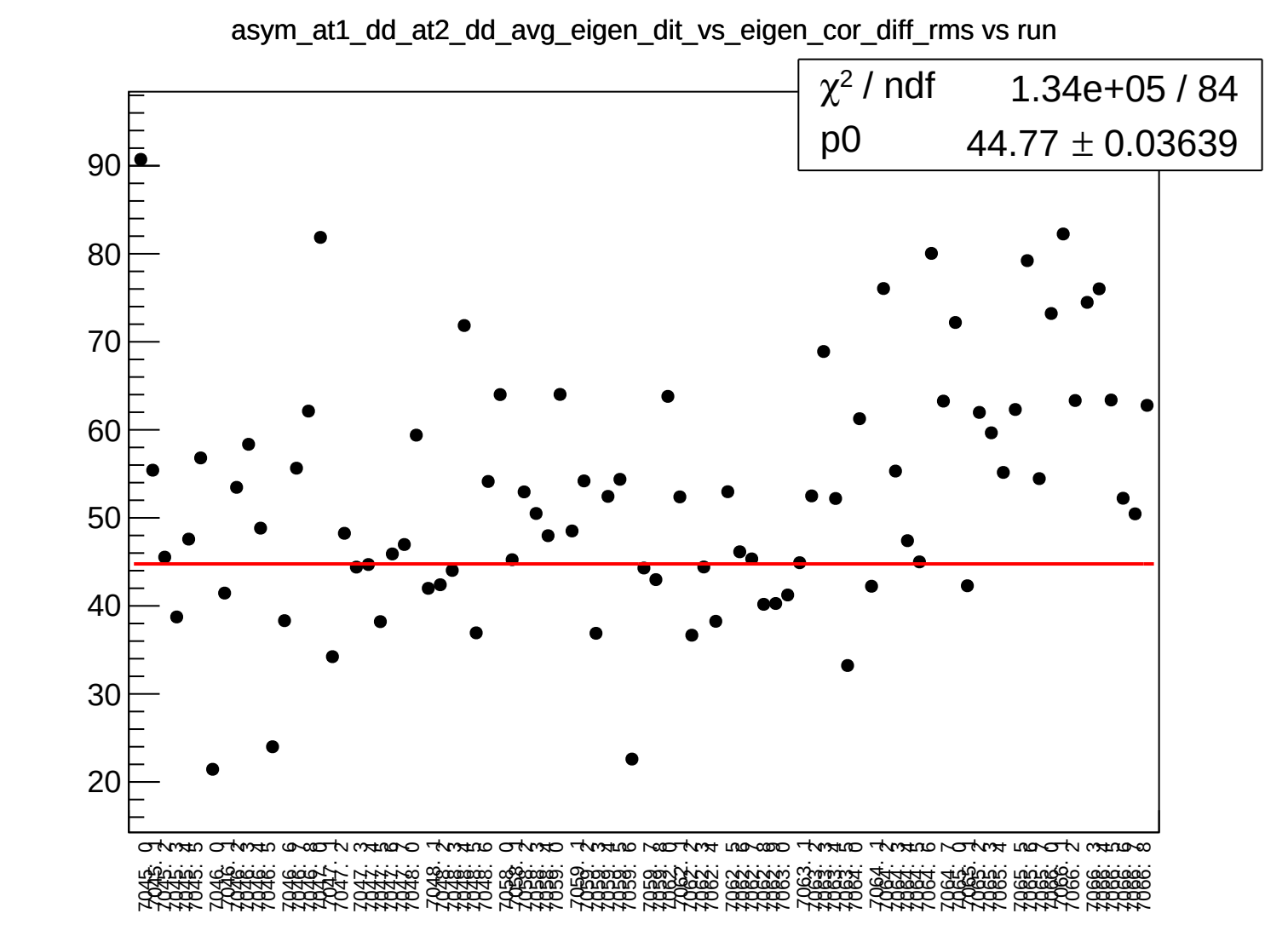

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.05 / 84
p0 −2.425e−06 ± 4.425e−06
pull
Entries 85
Mean 117.5
Std Dev 0
pull1D
Entries 85
Mean −0.09208
Std Dev 0.9476

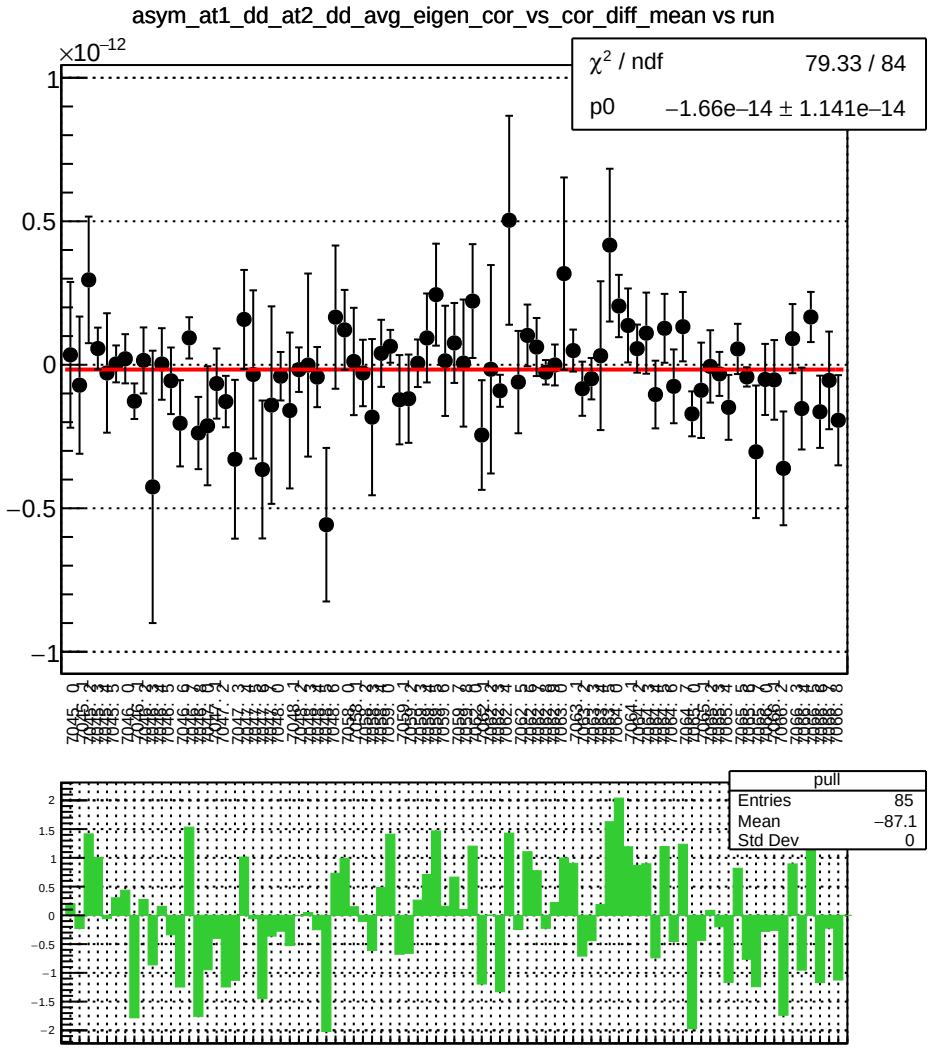

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.539e+05 / 84
p0 0.003559 ± 3.129e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

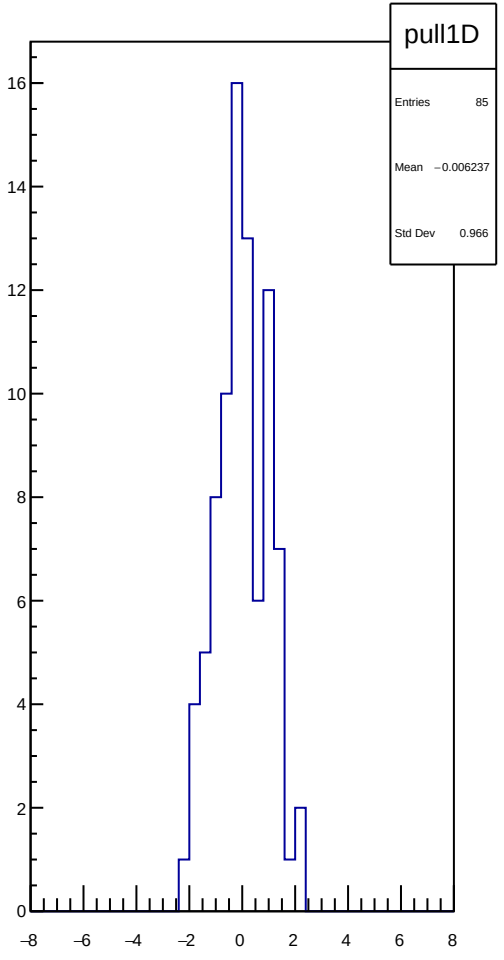

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007004 ± 0.05147
pull
Entries 85
Mean 228.6
Std Dev 0
pull1D
Entries 85
Mean 0.02027
Std Dev 0.9433

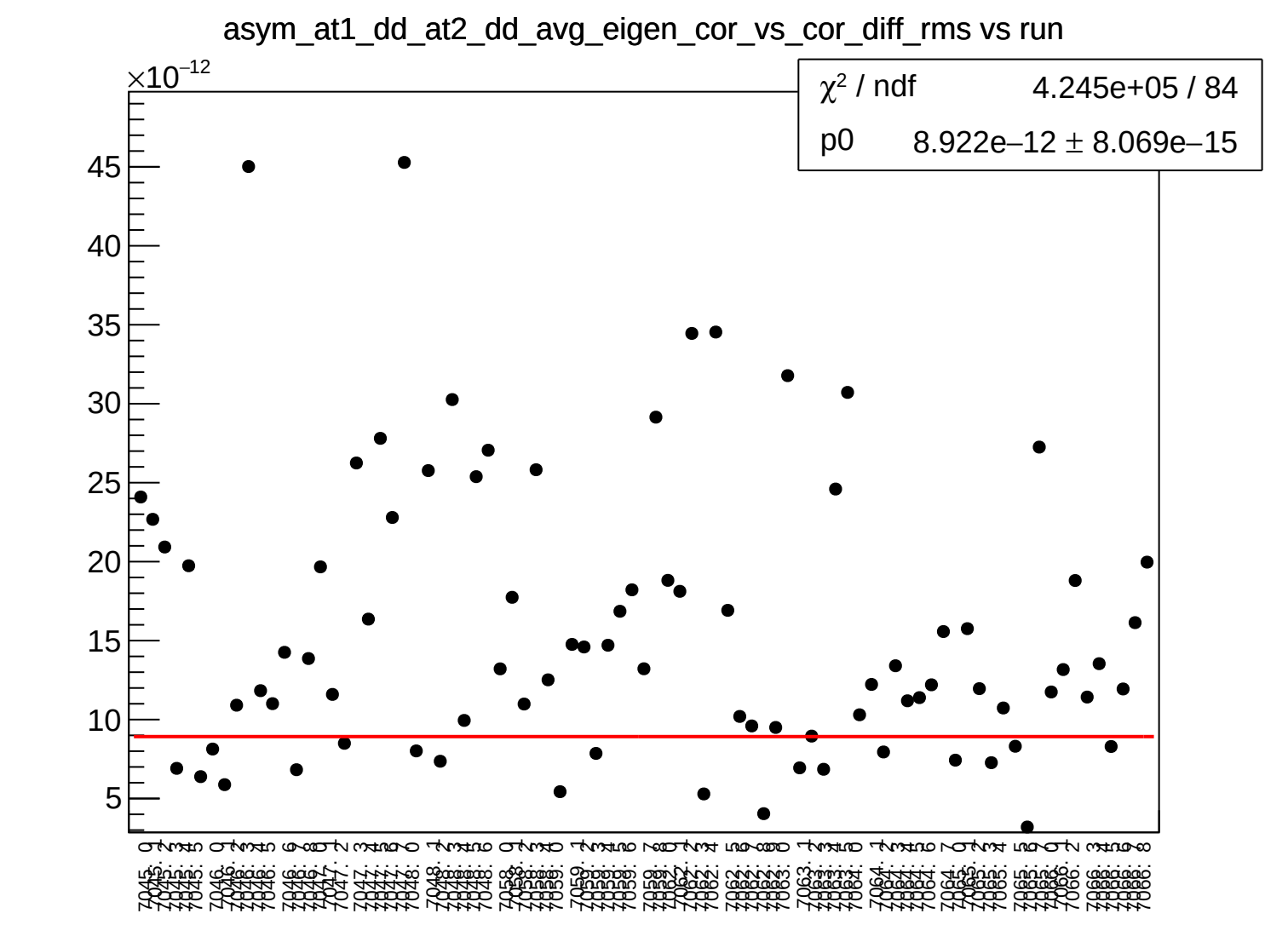

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.03639
90
80
70
60
50
40
30
20

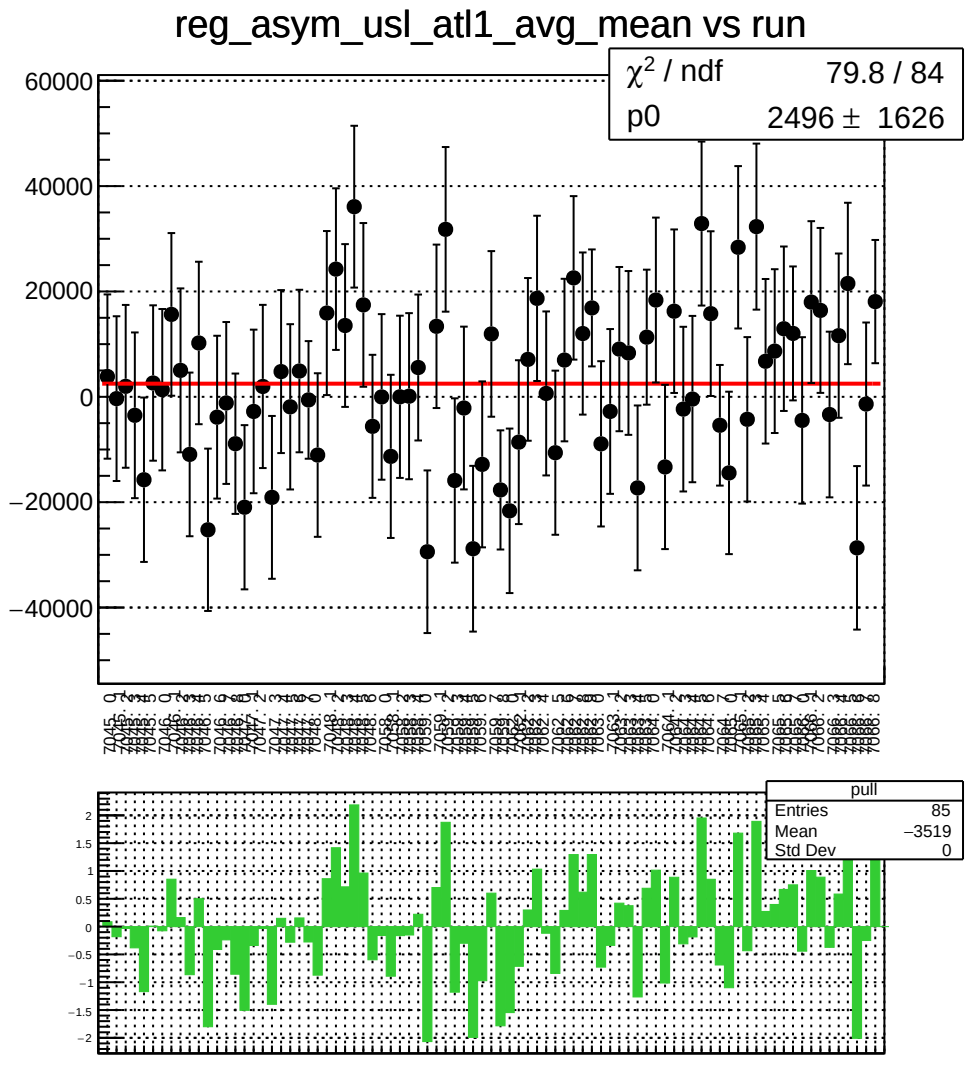

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.67 / 84
p0 0.007004 ± 0.05147
pull
Entries 85
Mean 228.6
Std Dev 0
pull1D
Entries 85
Mean 0.02027
Std Dev 0.9433

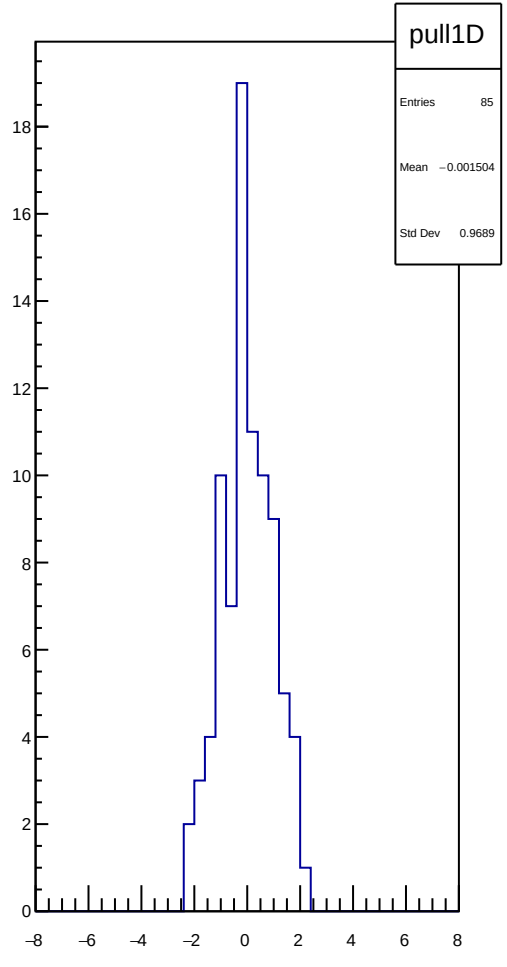

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 84
p0 44.77 ± 0.03639
90
80
70
60
50
40
30
20

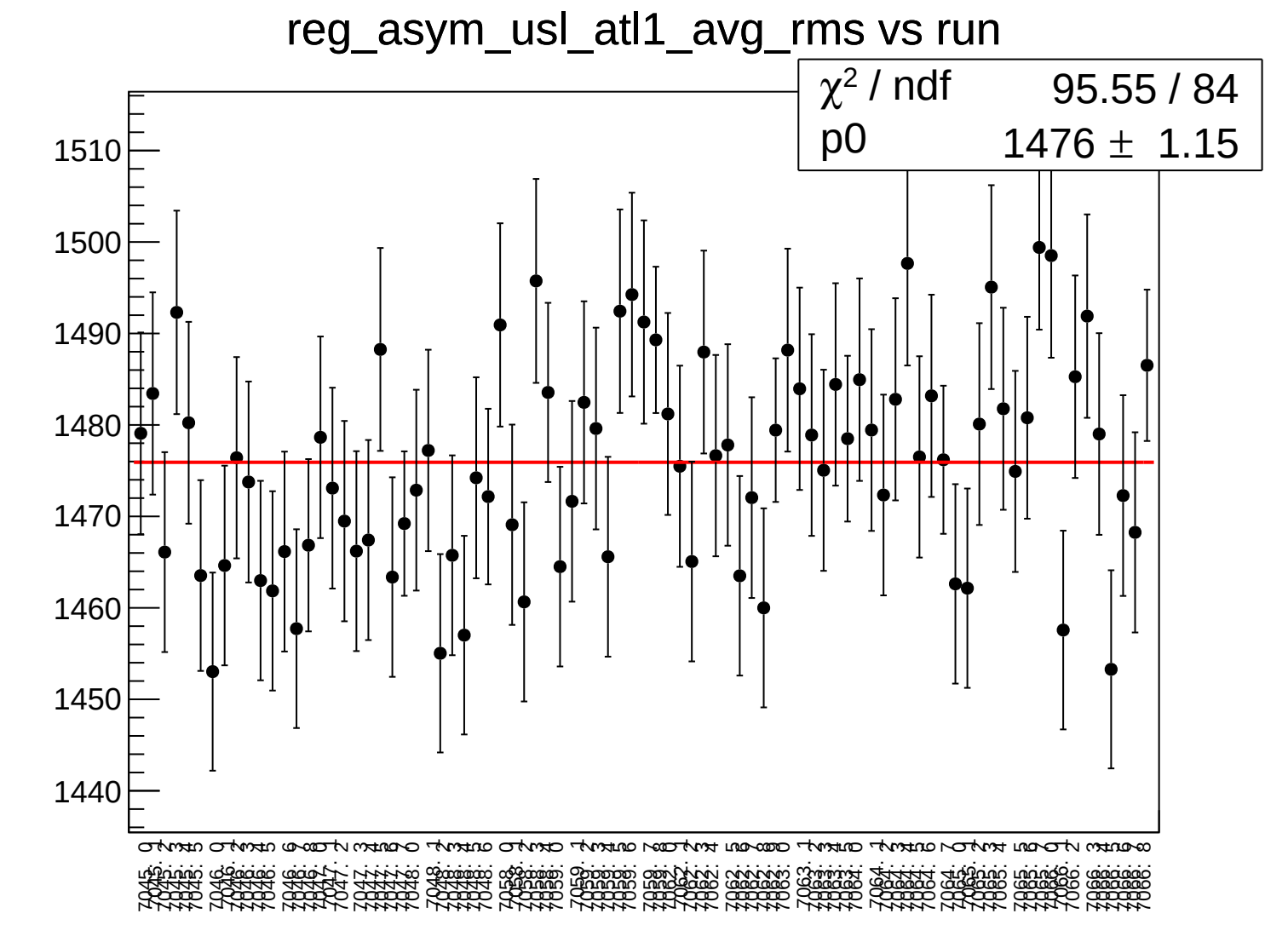

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.33 / 84
p0 −1.66e−14 ± 1.141e−14
pull
Entries 85
Mean −87.1
Std Dev 0

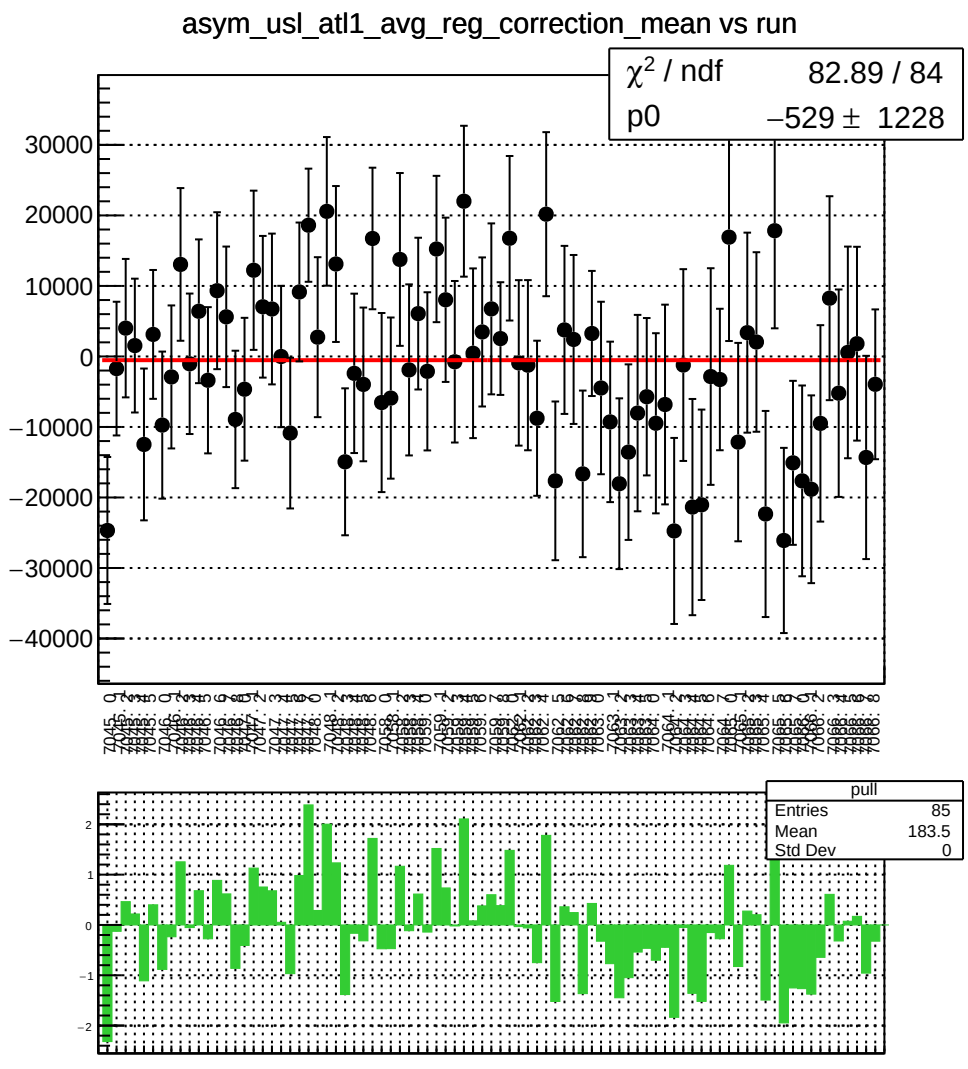

pull1D
Entries 85
Mean −0.006237
Std Dev 0.966

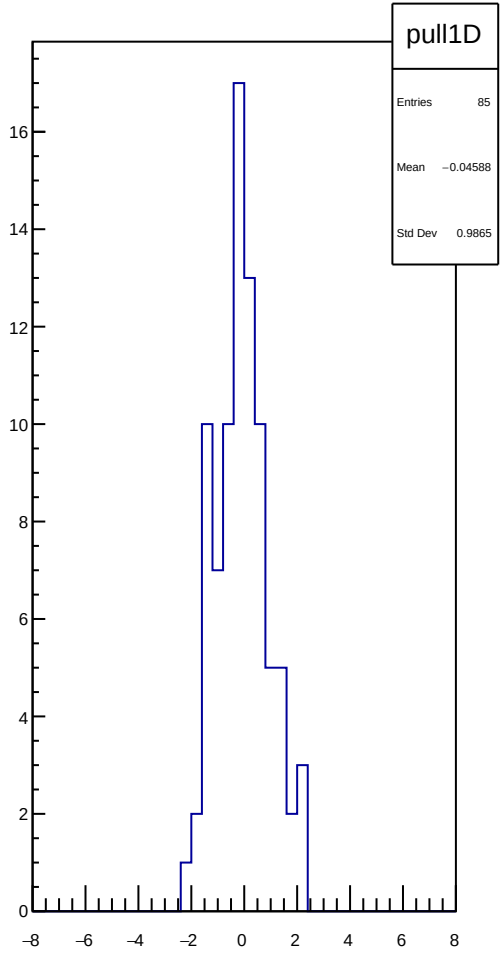

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.245e+05 / 84
p0 8.922e−12 ± 8.069e−15
45
40
35
30
25
20
15
10
5

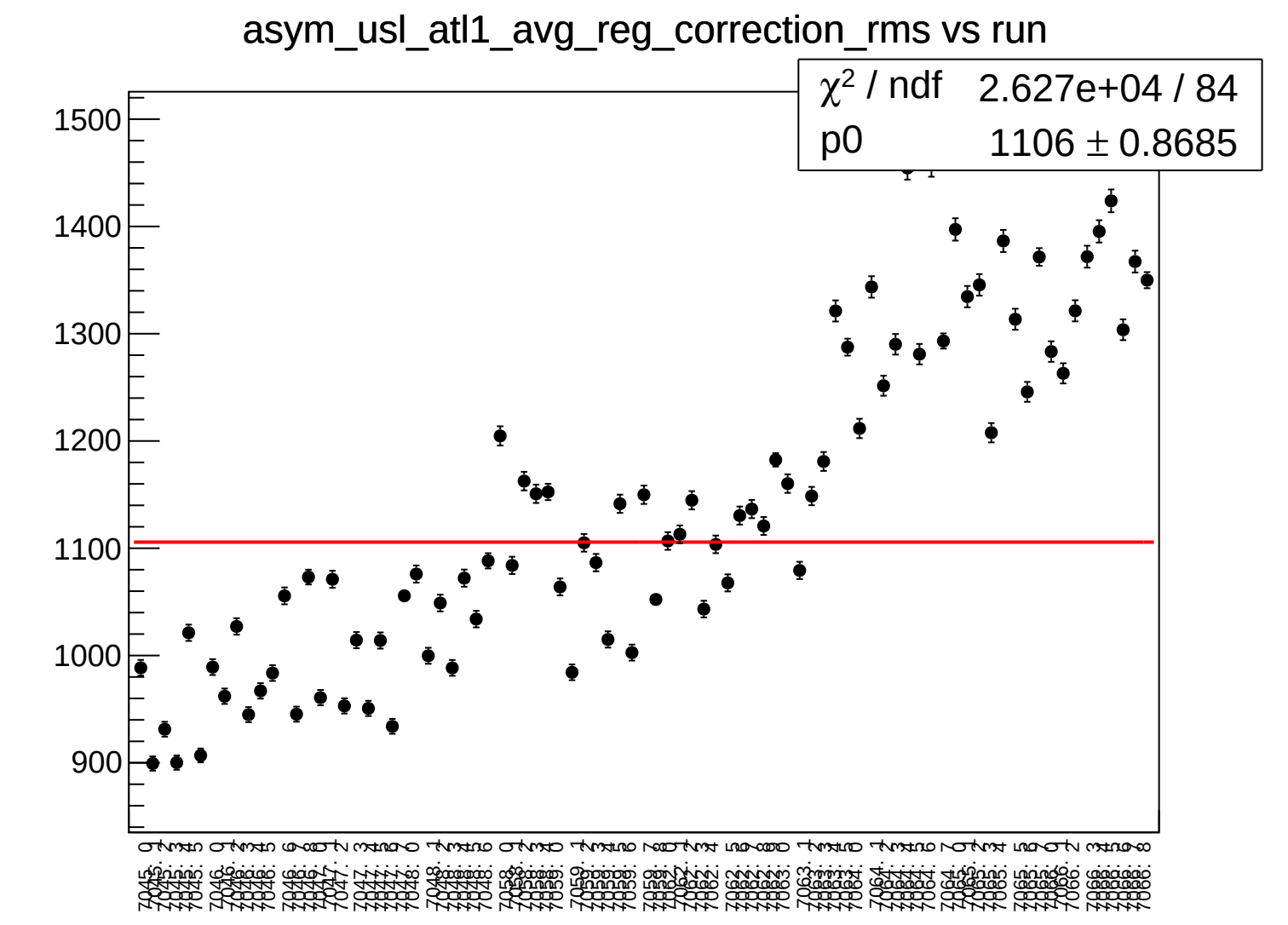

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.8 / 84
p0 2496 ± 1626
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −3519
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

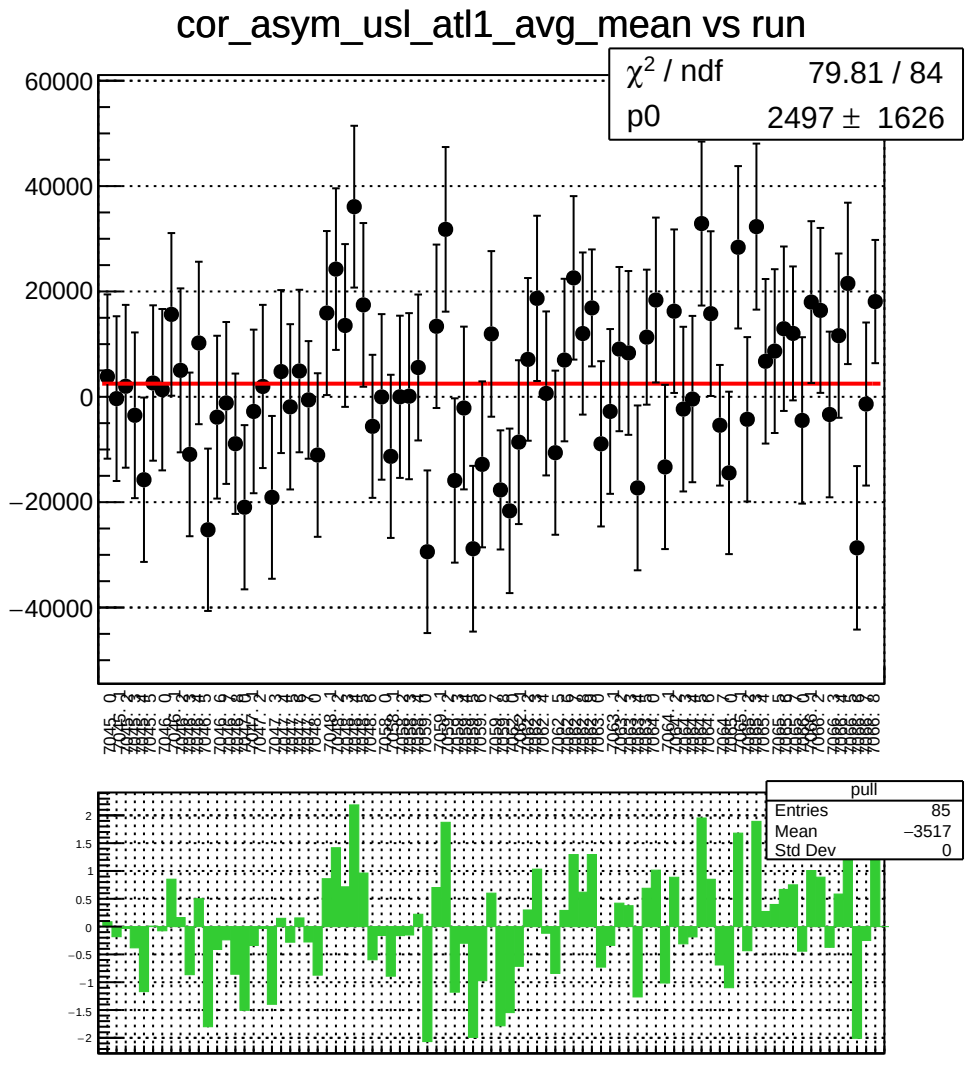

pull1D
Entries 85
Mean −0.001504
Std Dev 0.9689
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

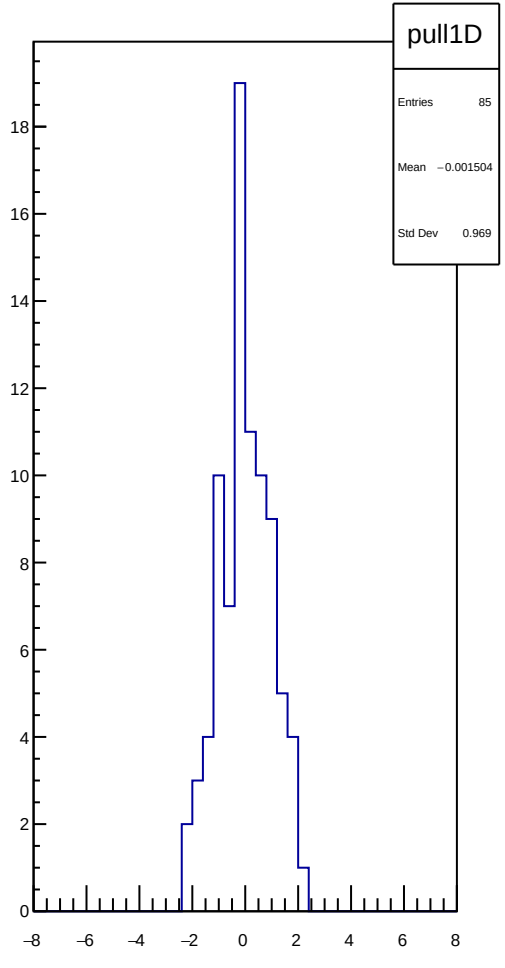

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.55 / 84
p0 1476 ± 1.15
1510
1500
1490
1480
1470
1460
1450
1440

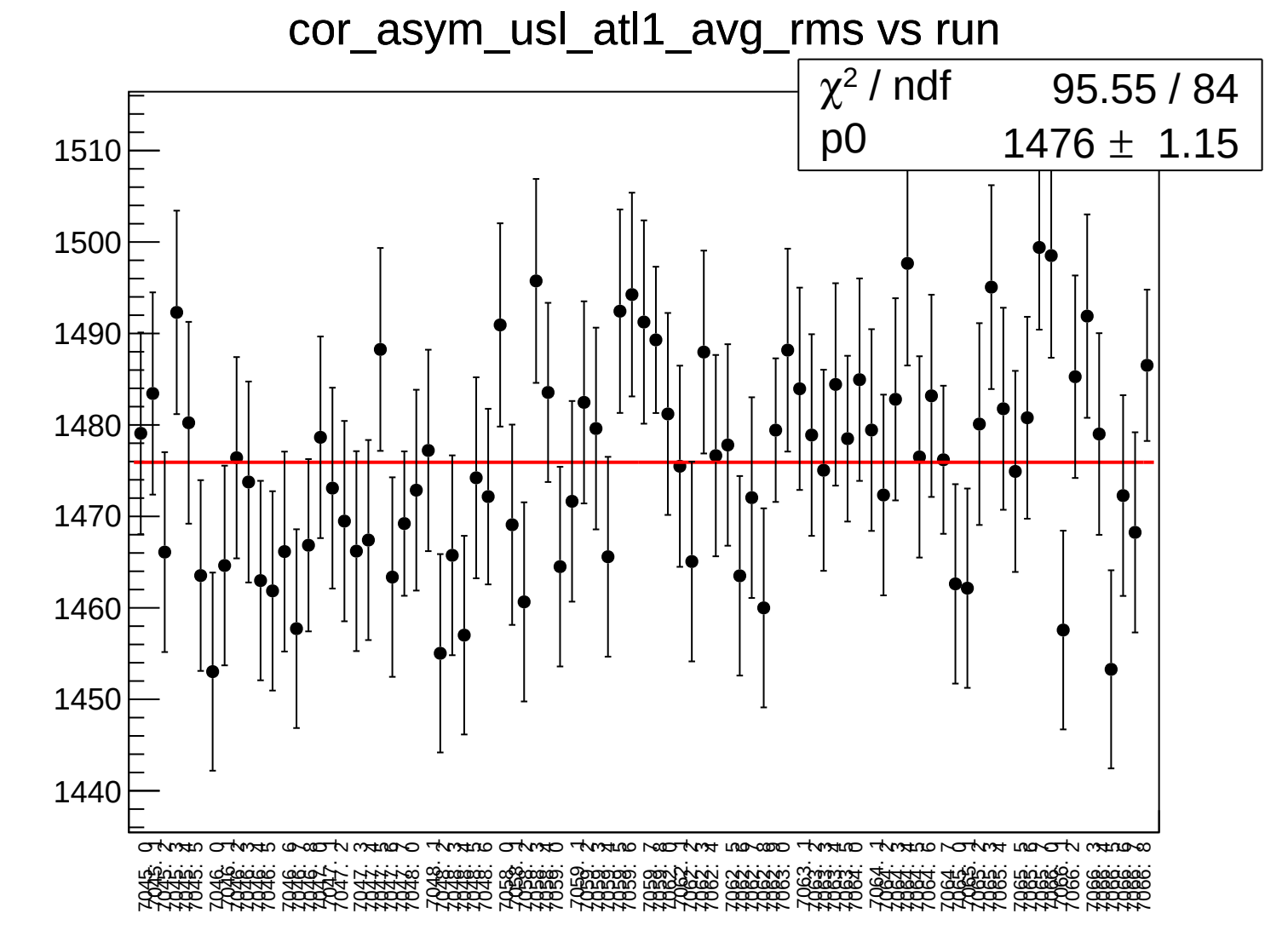

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 82.89 / 84
p0 −529 ± 1228
pull
Entries 85
Mean 183.5
Std Dev 0

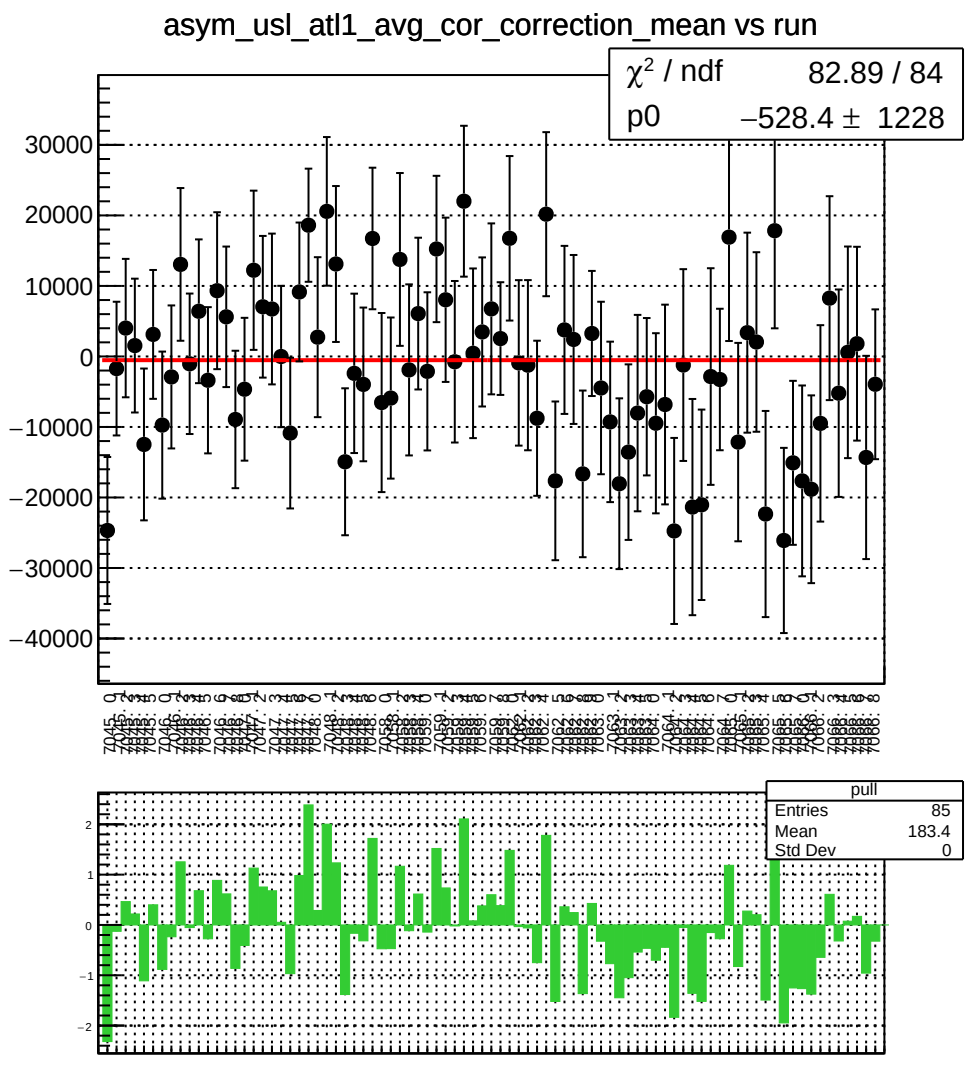

pull1D
Entries 85
Mean −0.04588
Std Dev 0.9865

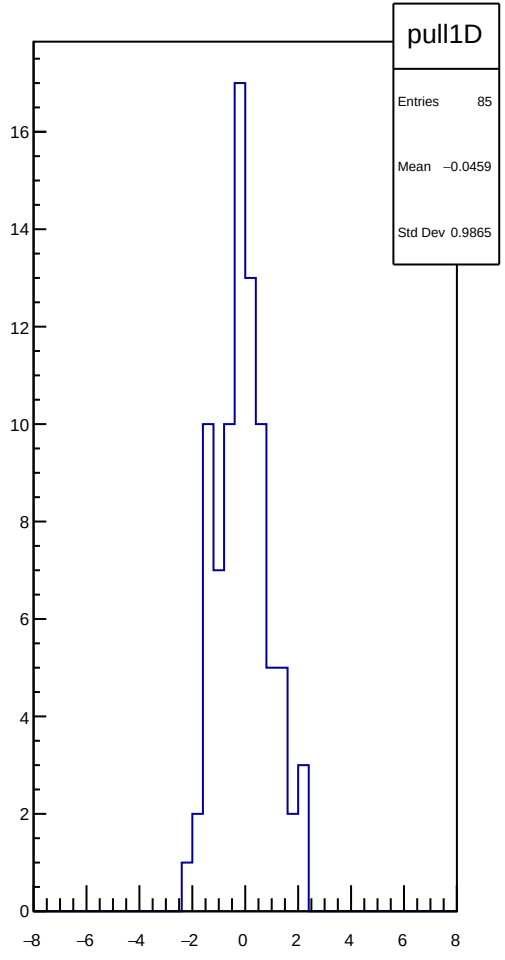

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.627e+04 / 84
p0 1106 ± 0.8685
1500
1400
1300
1200
1100
1000
900

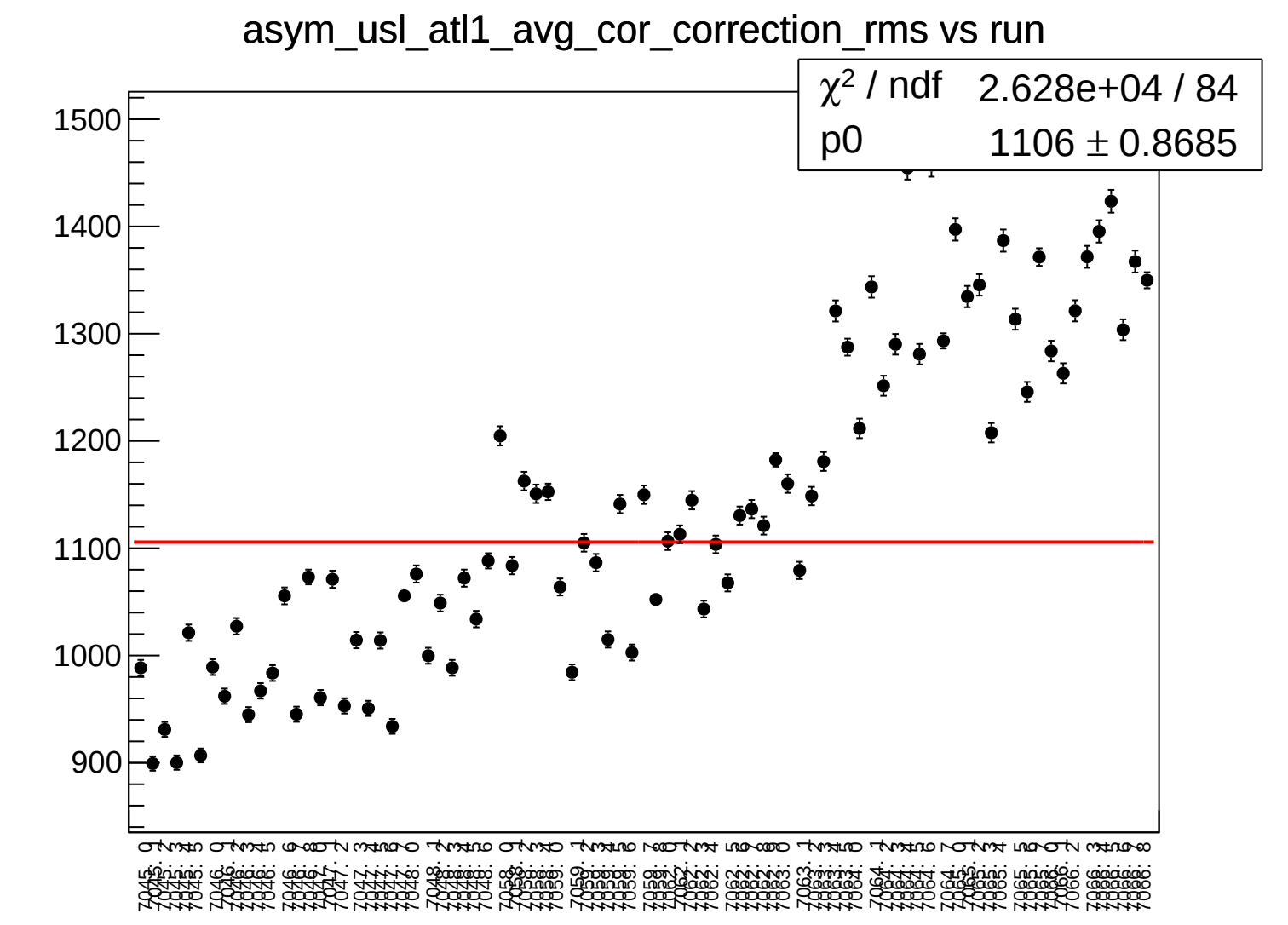

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.81 / 84
p0 2497 ± 1626
pull
Entries 85
Mean −3517
Std Dev 0

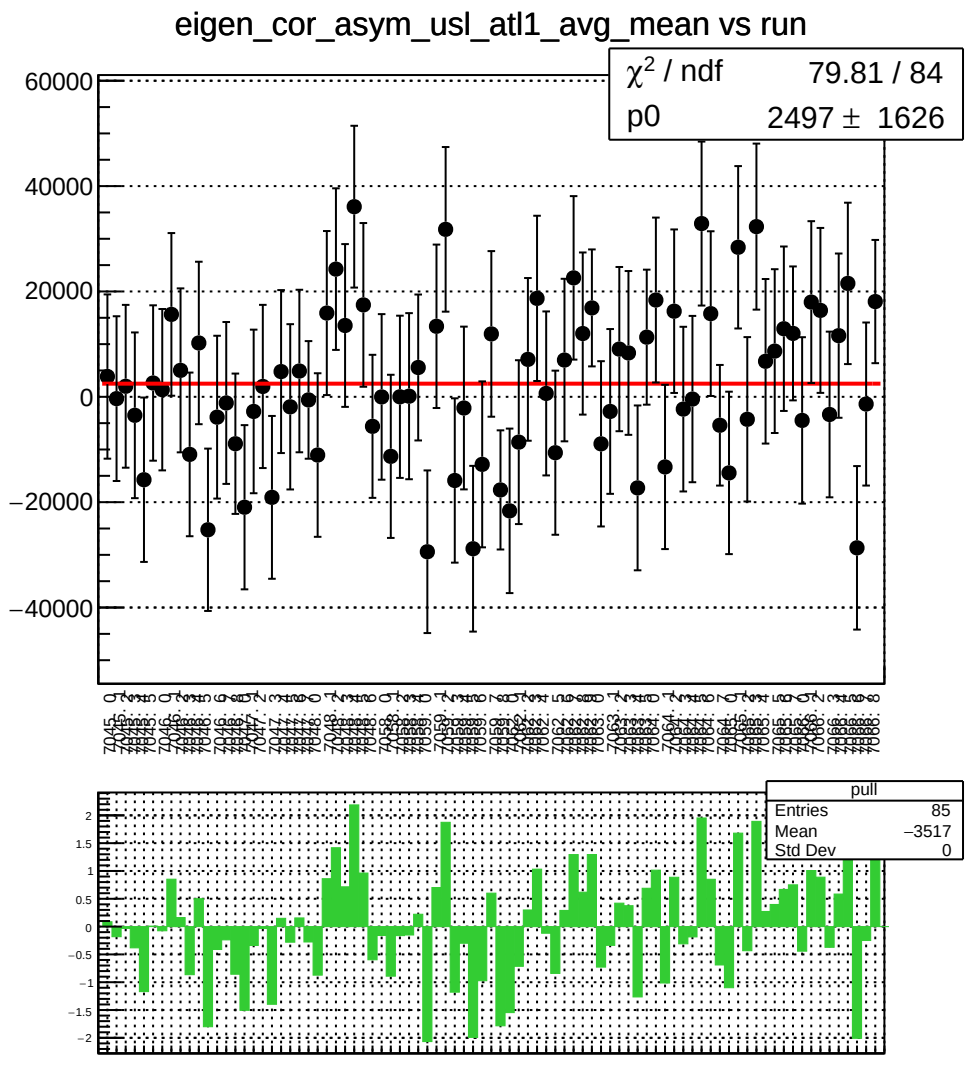

pull1D
Entries 85
Mean −0.001504
Std Dev 0.969

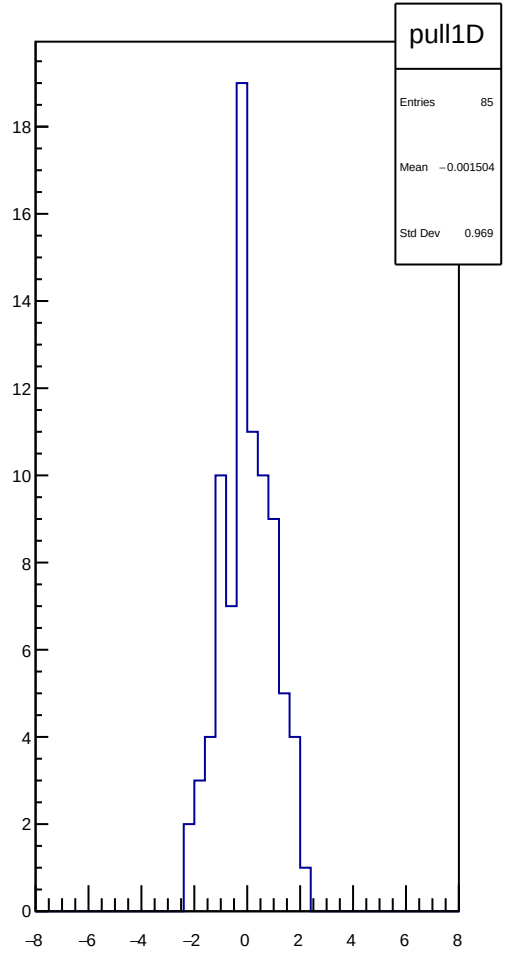

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.55 / 84
p0 1476 ± 1.15
1510
1500
1490
1480
1470
1460
1450
1440

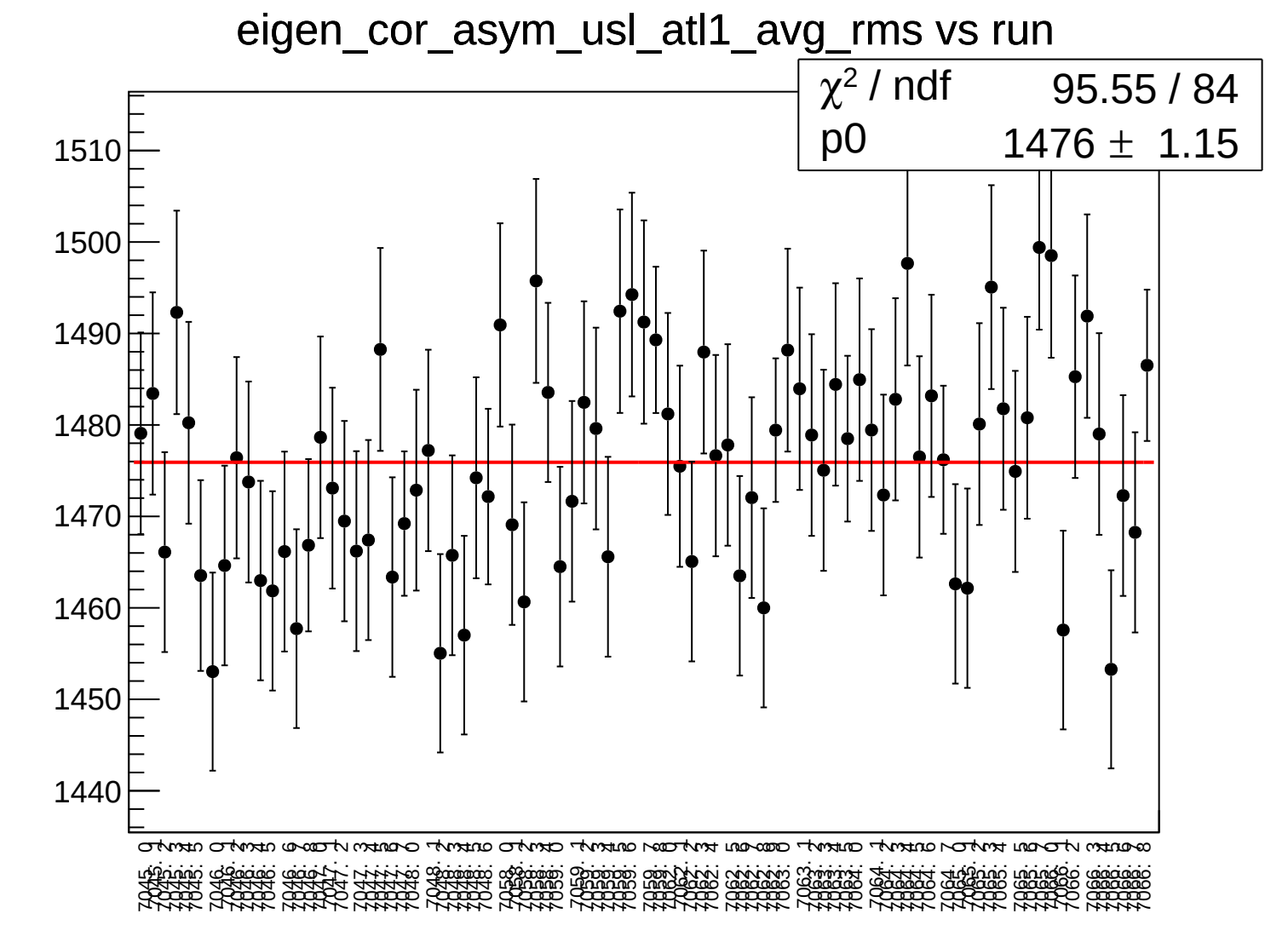

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 82.89 / 84
p0 −528.4 ± 1228
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 183.4
Std Dev 0
2
1
0
−1
−2

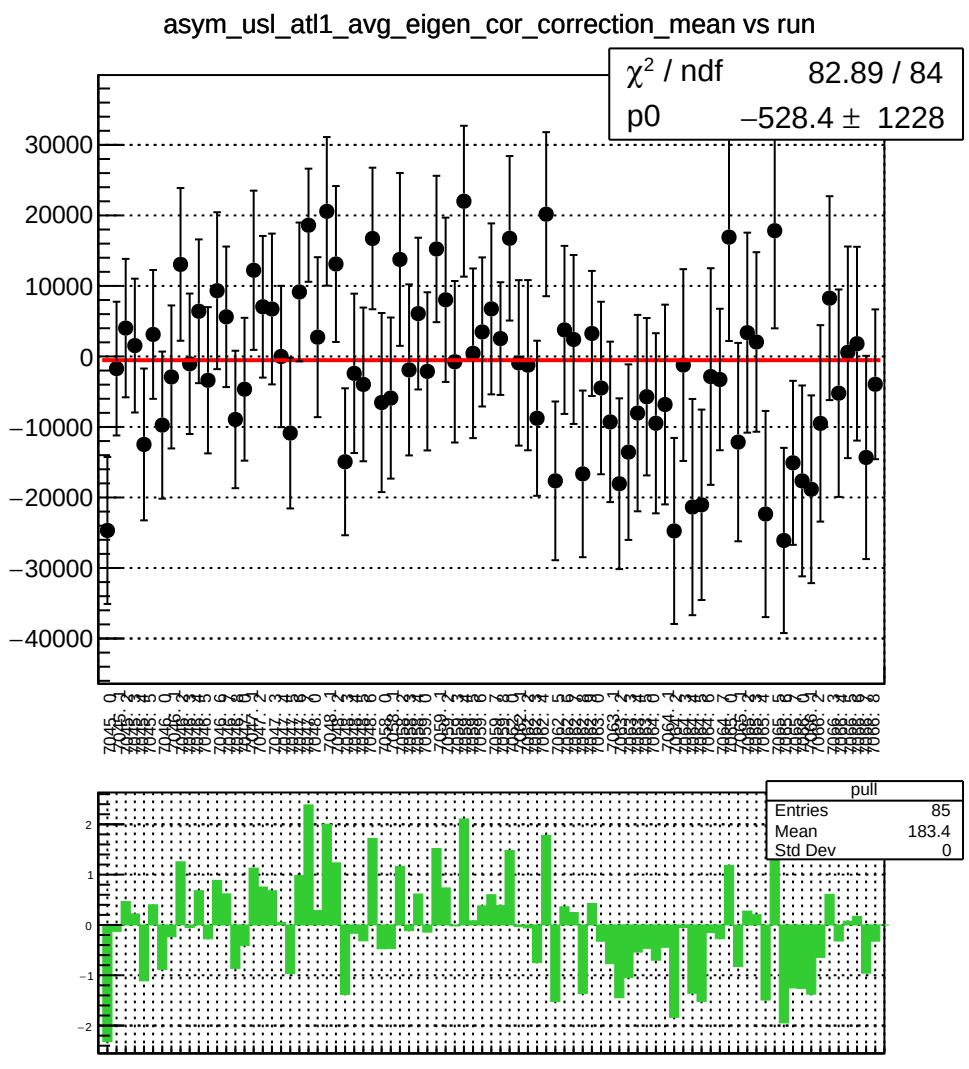

pull1D
Entries 85
Mean −0.0459
Std Dev 0.9865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

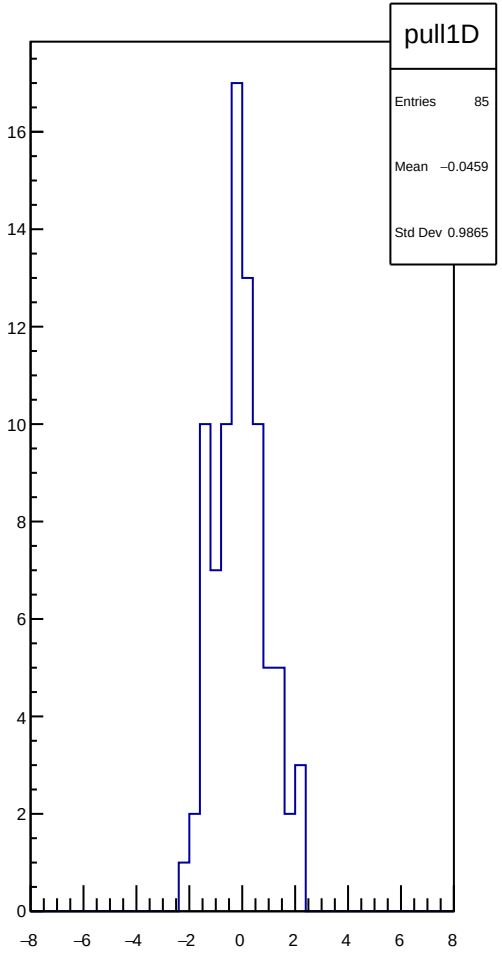

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.628e+04 / 84
p0 1106 ± 0.8685
1500
1400
1300
1200
1100
1000
900

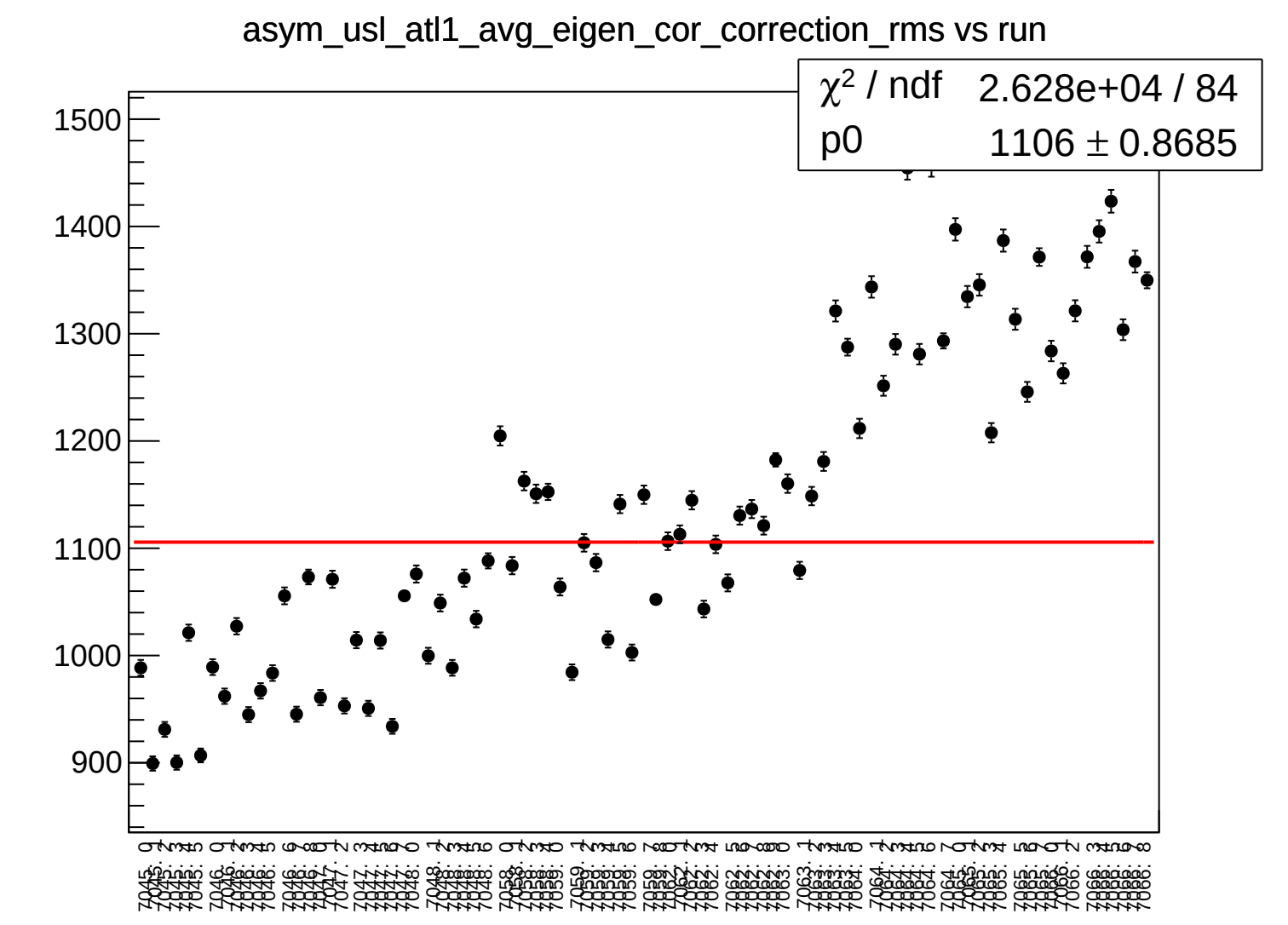

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.81 / 84
p0 2497 ± 1626
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −3517
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

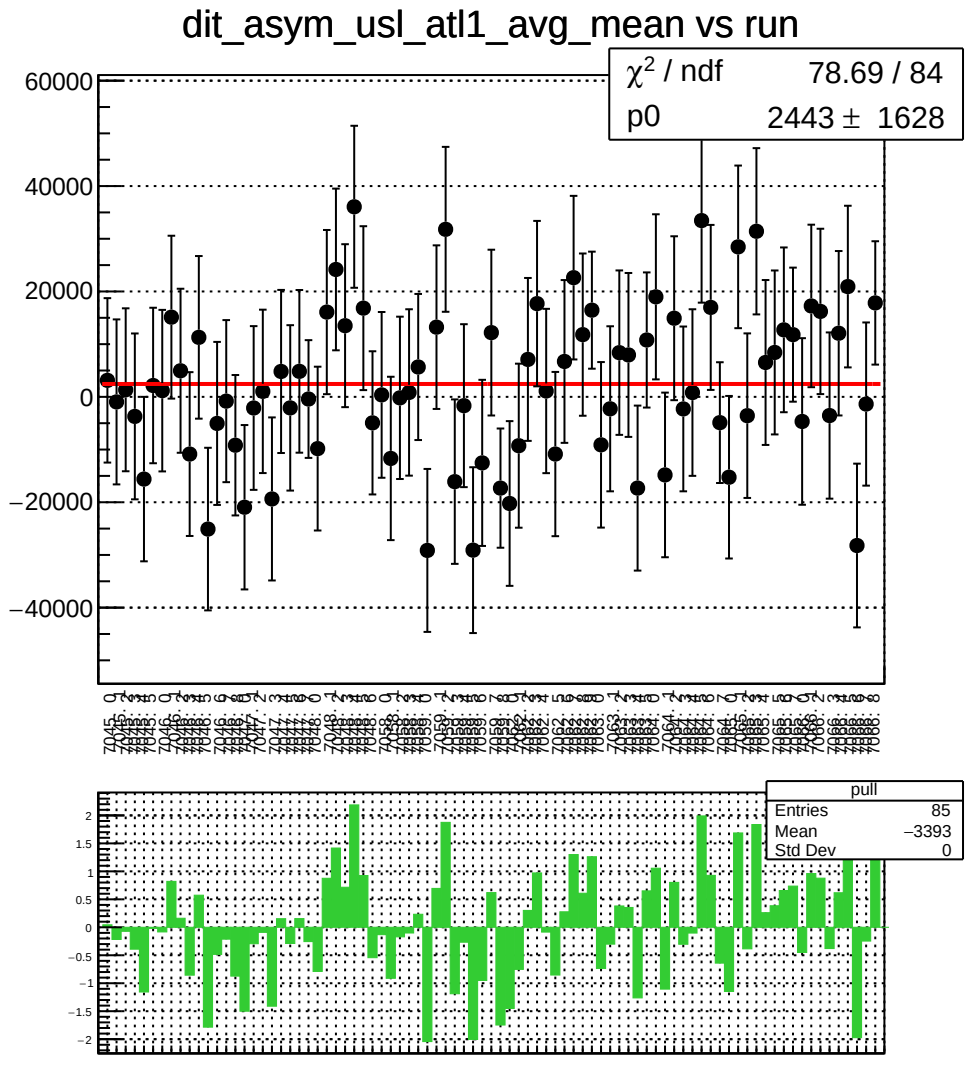

pull1D
Entries 85
Mean −0.001504
Std Dev 0.969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

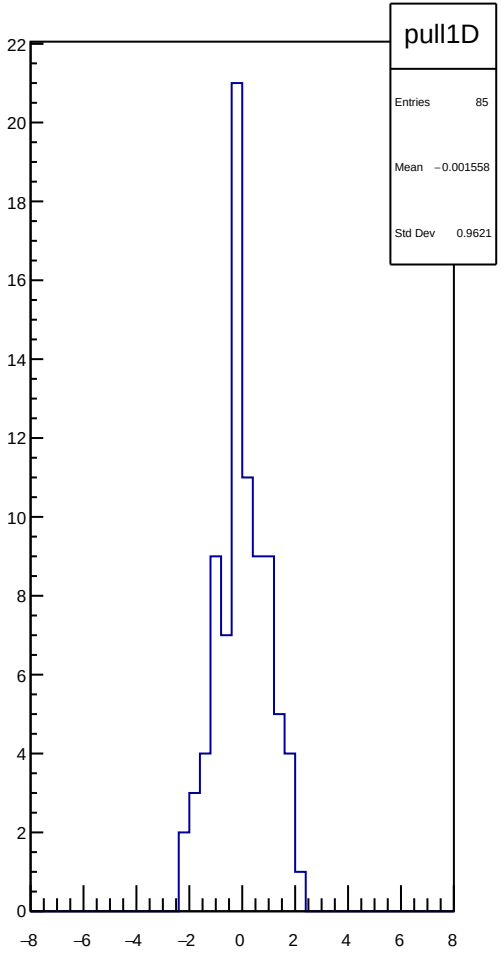

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.55 / 84
p0 1476 ± 1.15
1510
1500
1490
1480
1470
1460
1450
1440

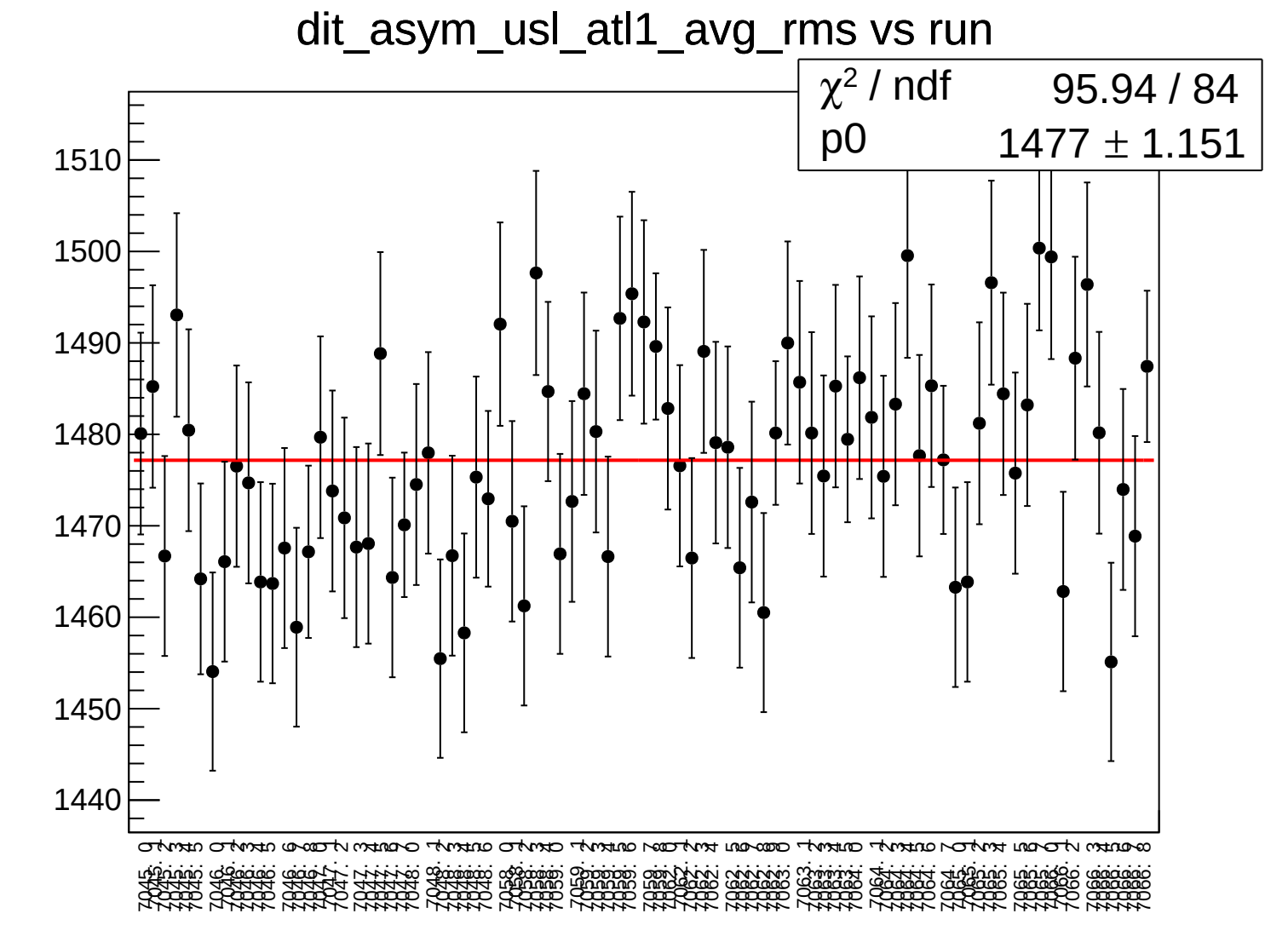

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.89 / 84
p0 −528.4 ± 1228
pull
Entries 85
Mean 183.4
Std Dev 0

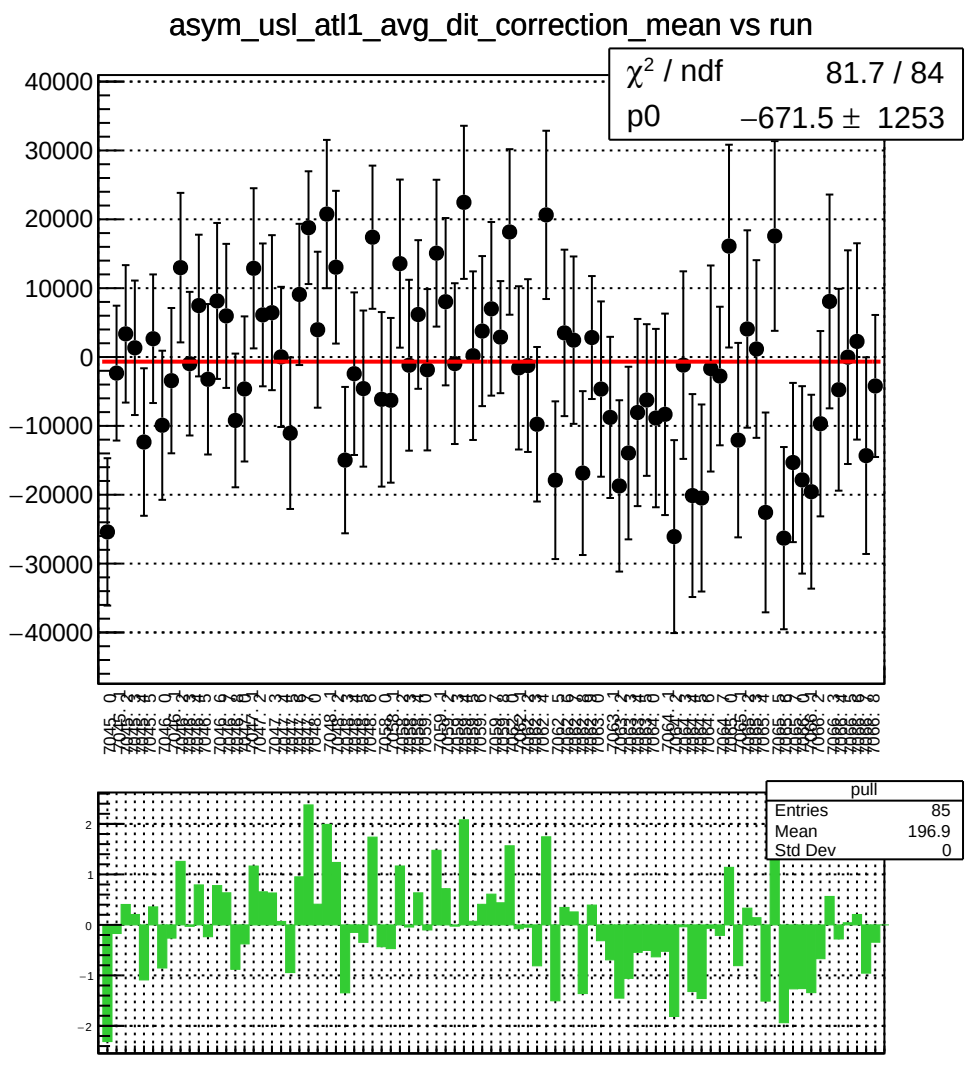

pull1D
Entries 85
Mean −0.0459
Std Dev 0.9865

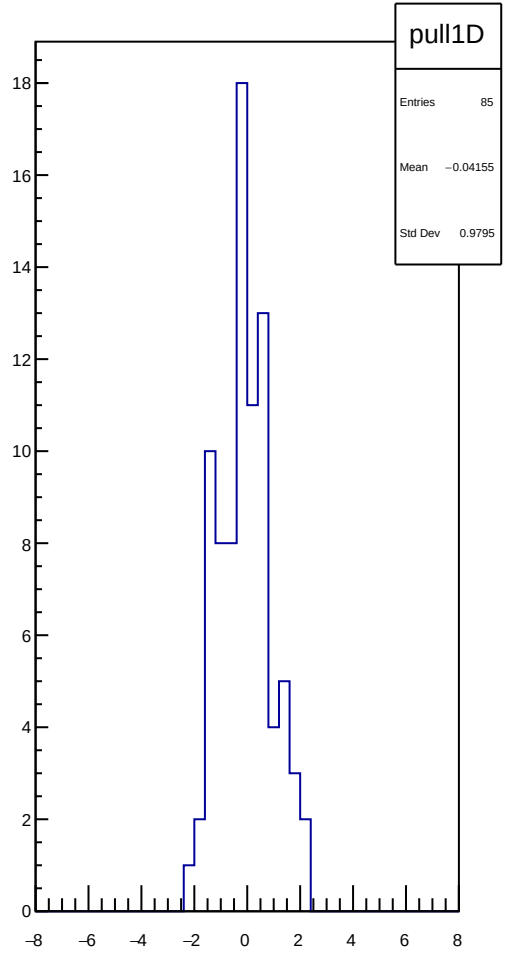

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.628e+04 / 84
p0 1106 ± 0.8685
1500
1400
1300
1200
1100
1000
900

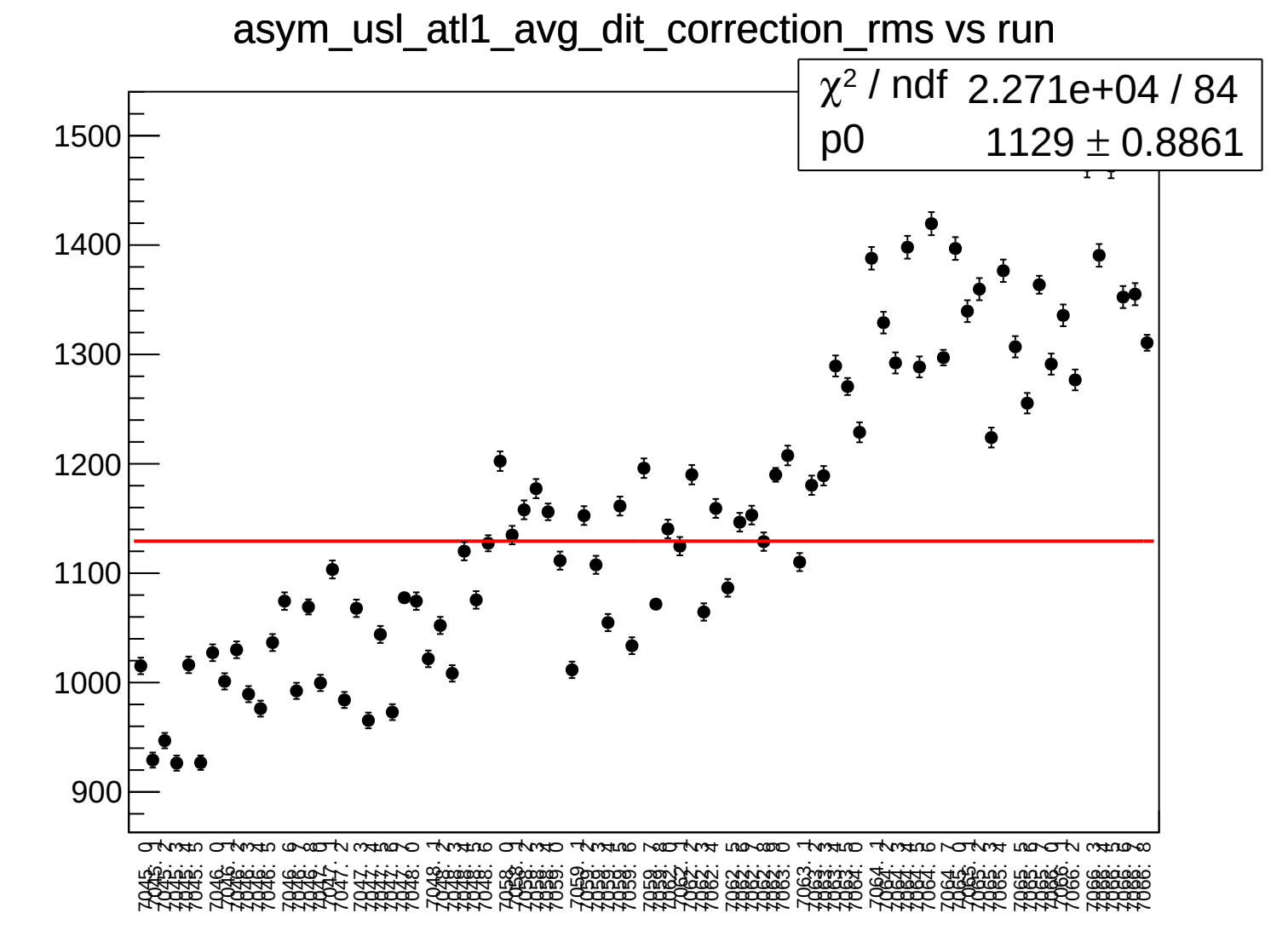

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 78.69 / 84
p0 2443 ± 1628
pull
Entries 85
Mean −3393
Std Dev 0

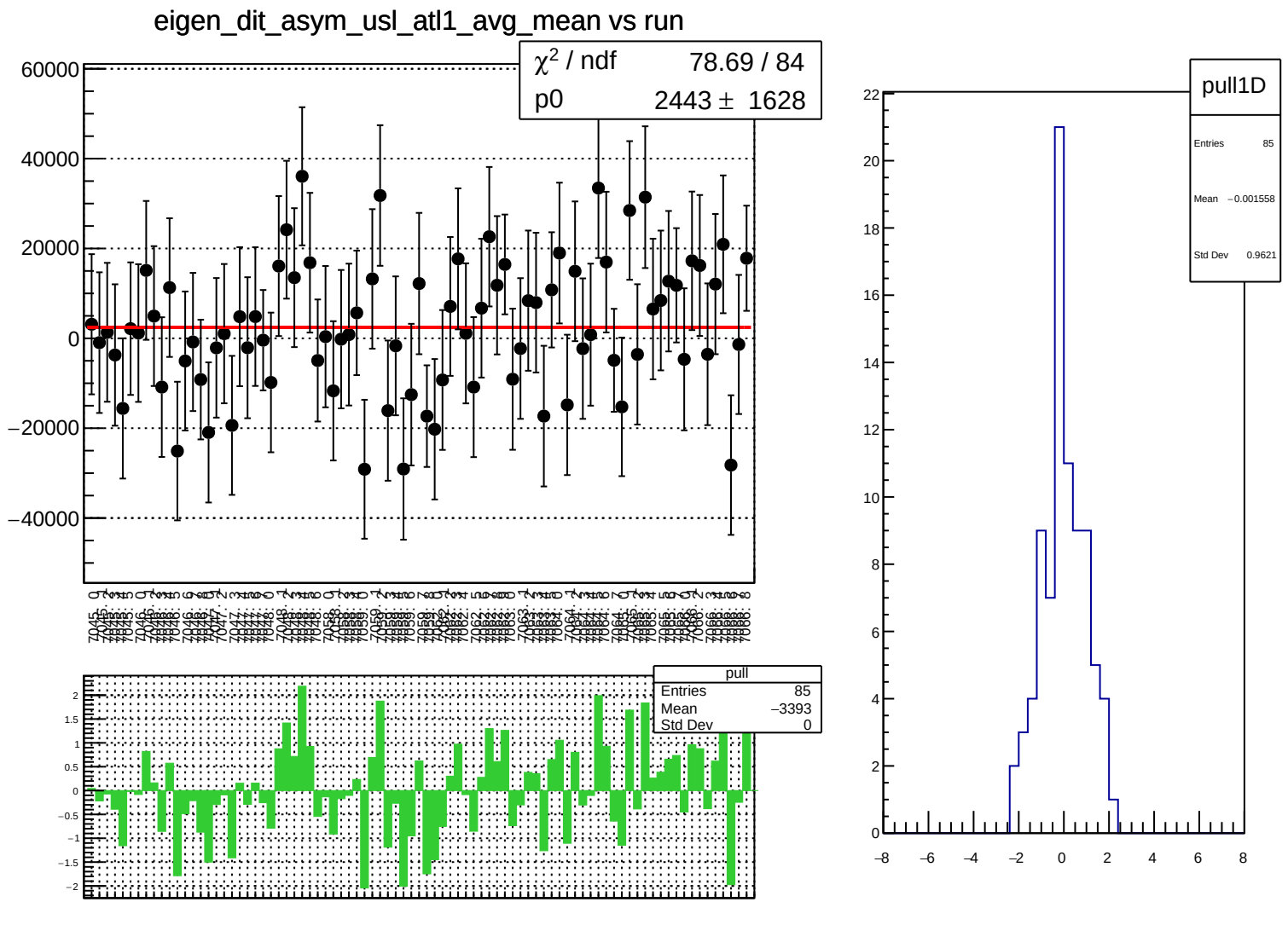

pull1D
Entries 85
Mean −0.001558
Std Dev 0.9621

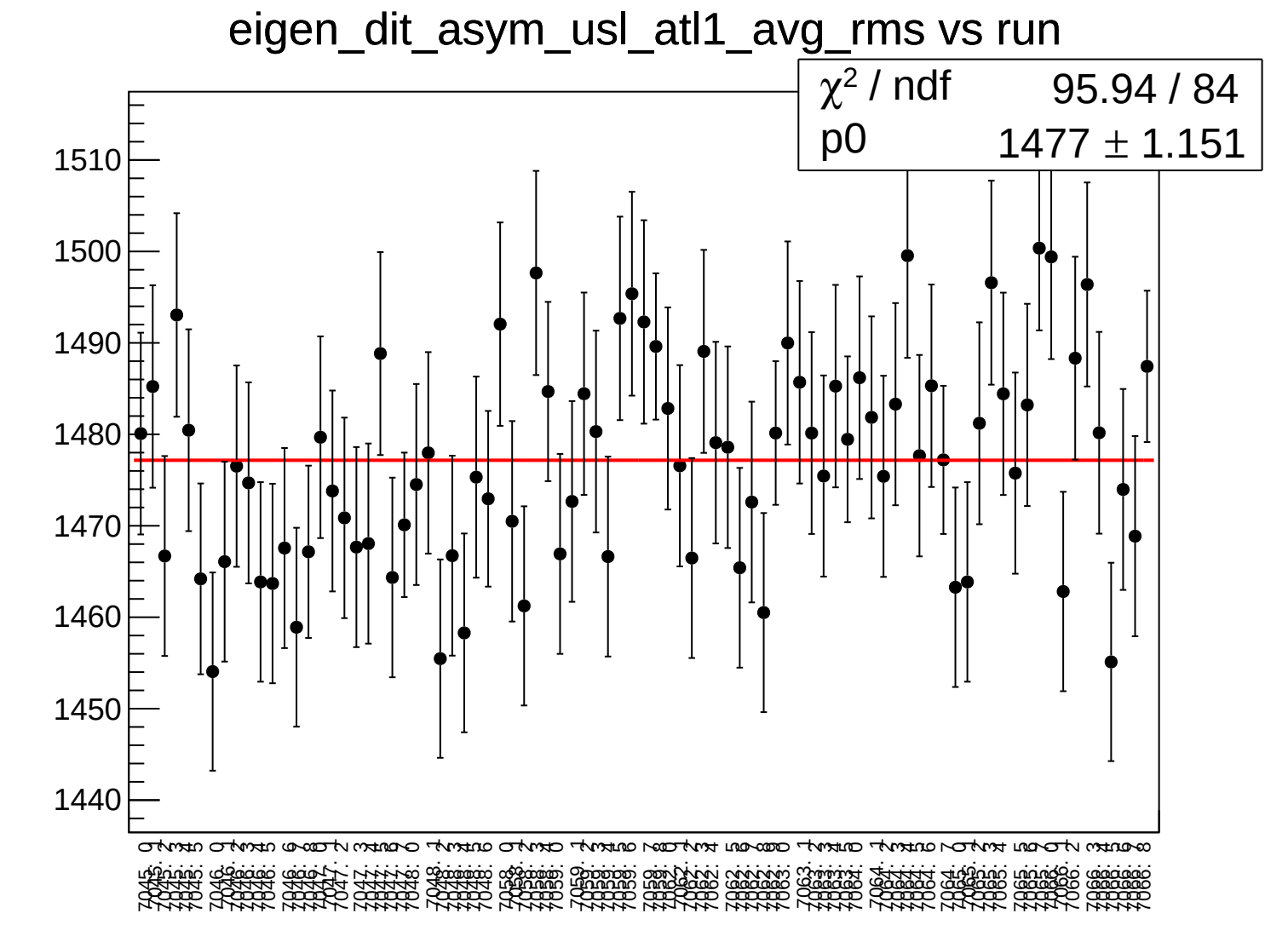

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.94 / 84
p0 1477 ± 1.151
1510
1500
1490
1480
1470
1460
1450
1440

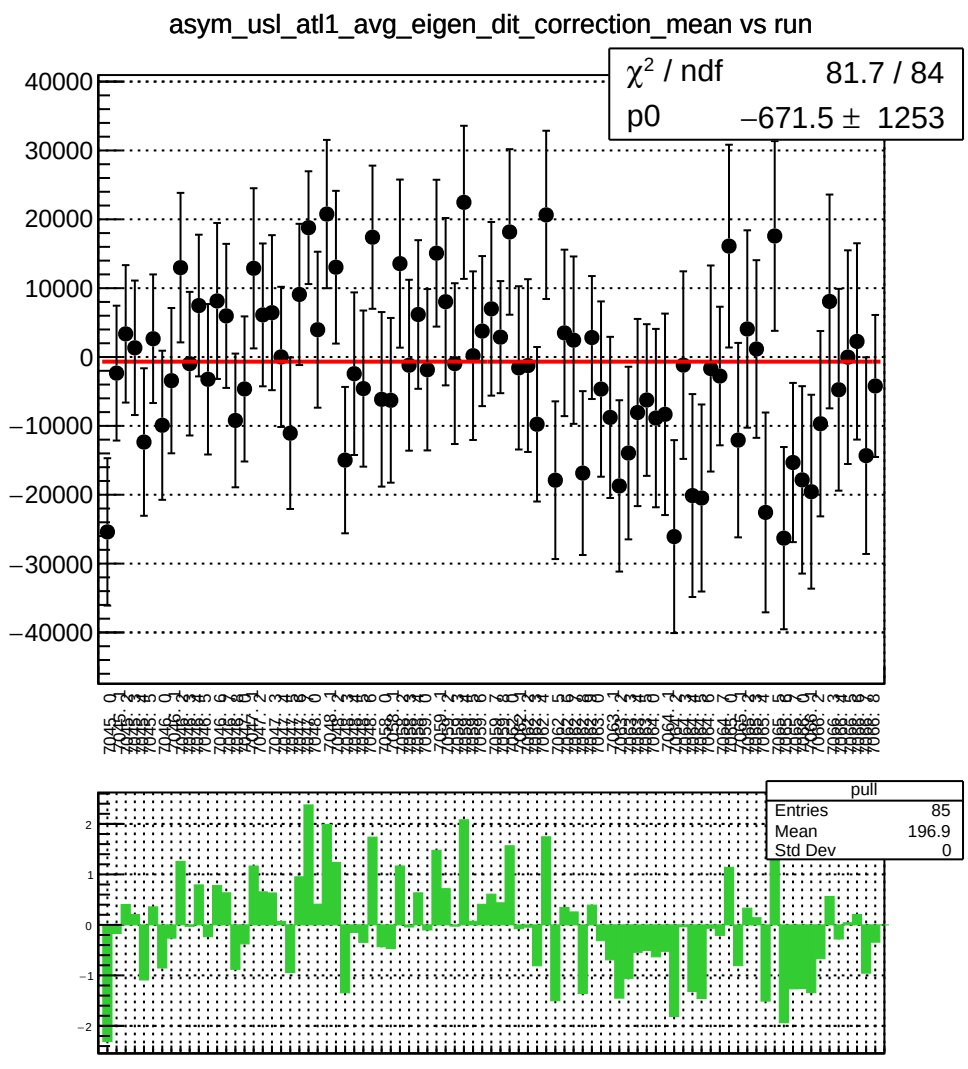

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 81.7 / 84
p0 −671.5 ± 1253
pull
Entries 85
Mean 196.9
Std Dev 0

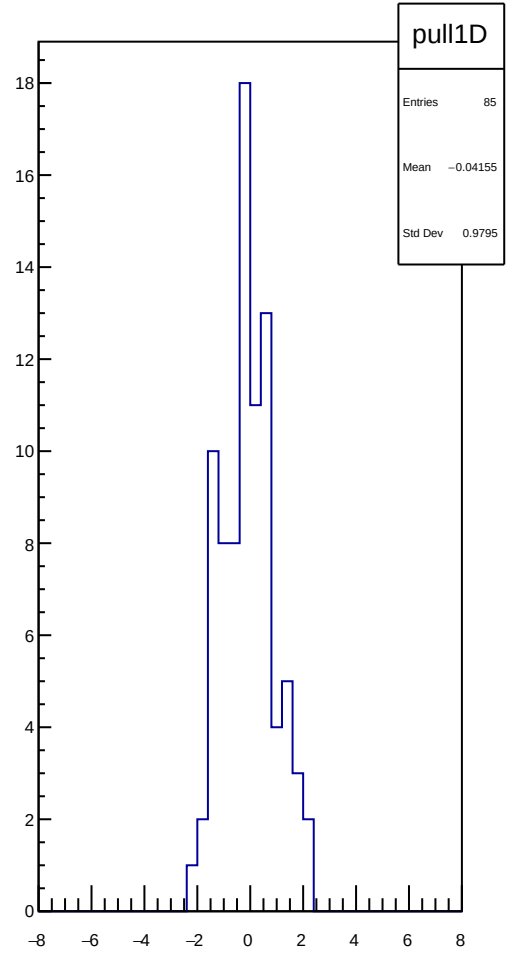

pull1D
Entries 85
Mean −0.04155
Std Dev 0.9795

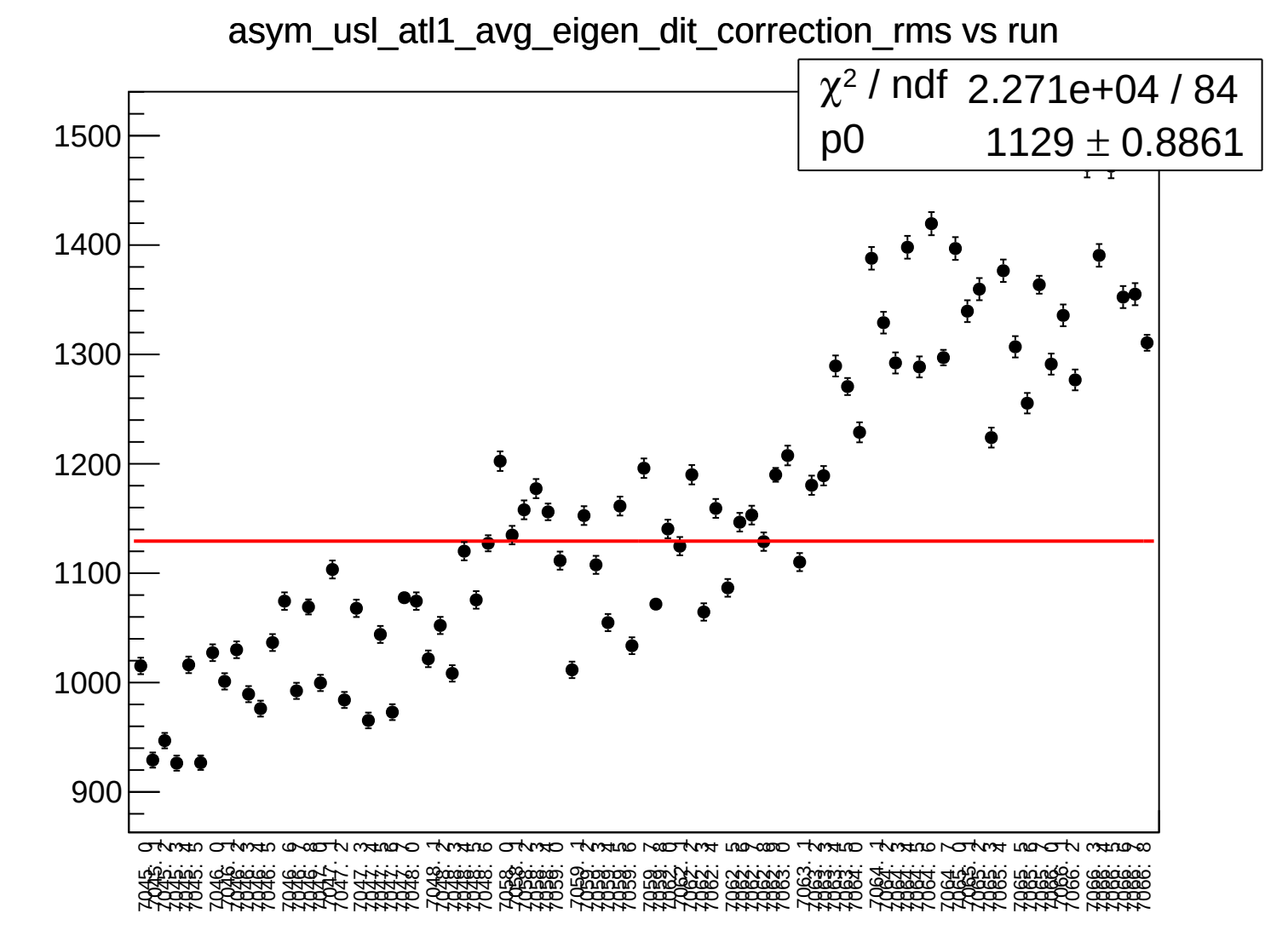

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2.271e+04 / 84
p0 1129 ± 0.8861
1500
1400
1300
1200
1100
1000
900

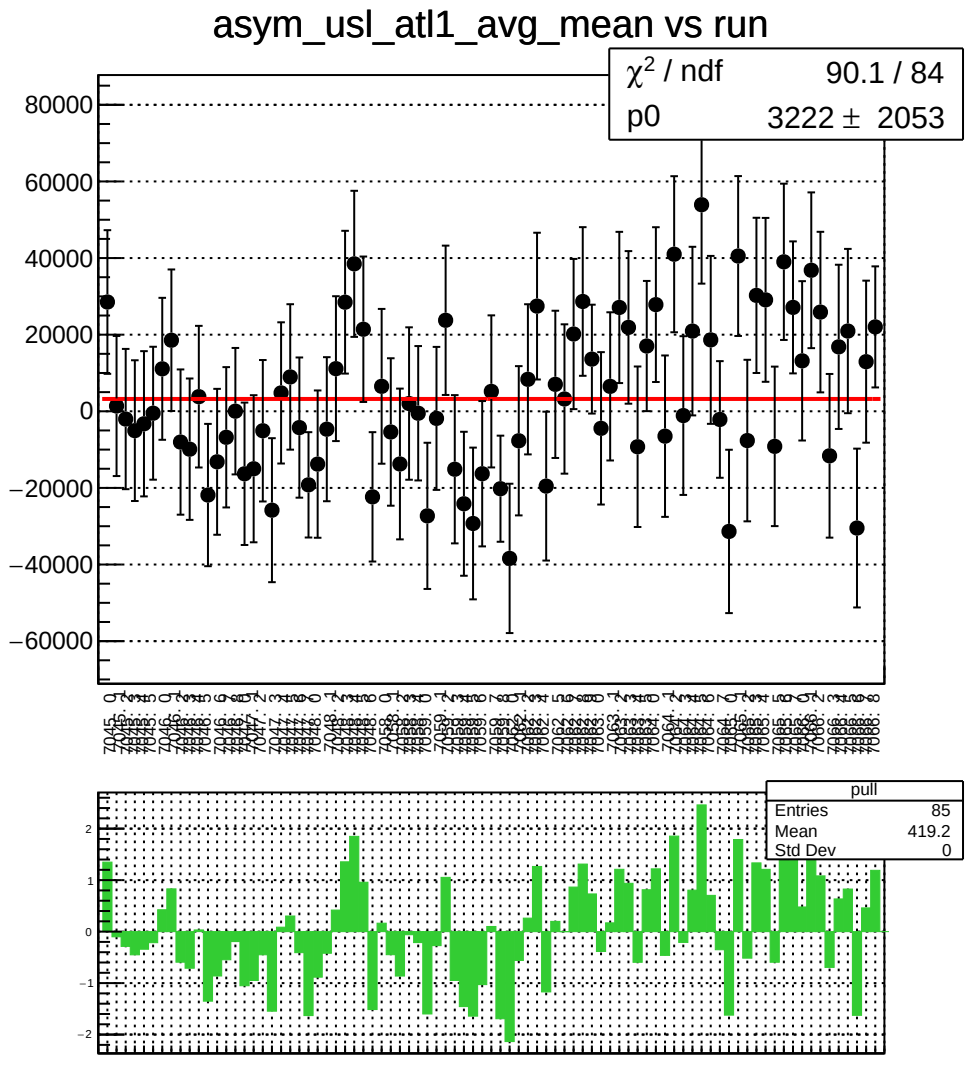

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 78.69 / 84
p0 2443 ± 1628
pull
Entries 85
Mean −3393
Std Dev 0
pull1D
Entries 85
Mean −0.001558
Std Dev 0.9621

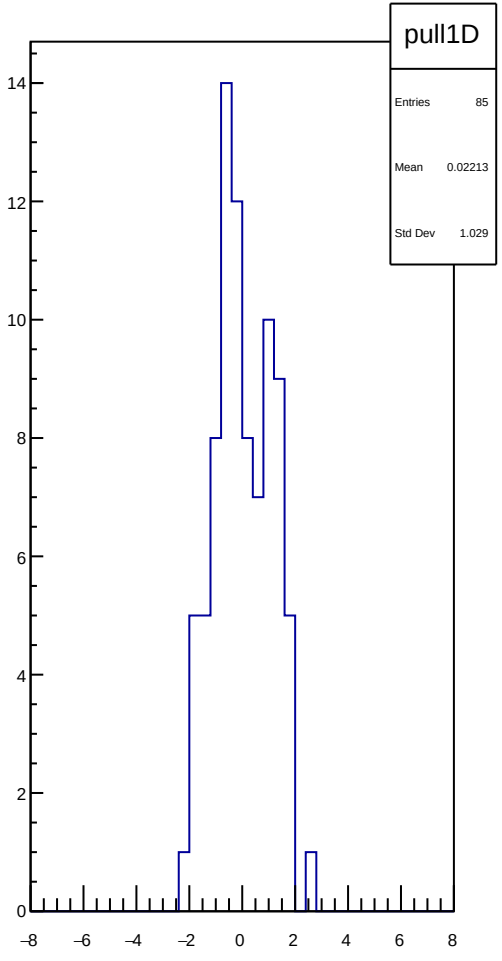

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.94 / 84
p0 1477 ± 1.151
1510
1500
1490
1480
1470
1460
1450
1440

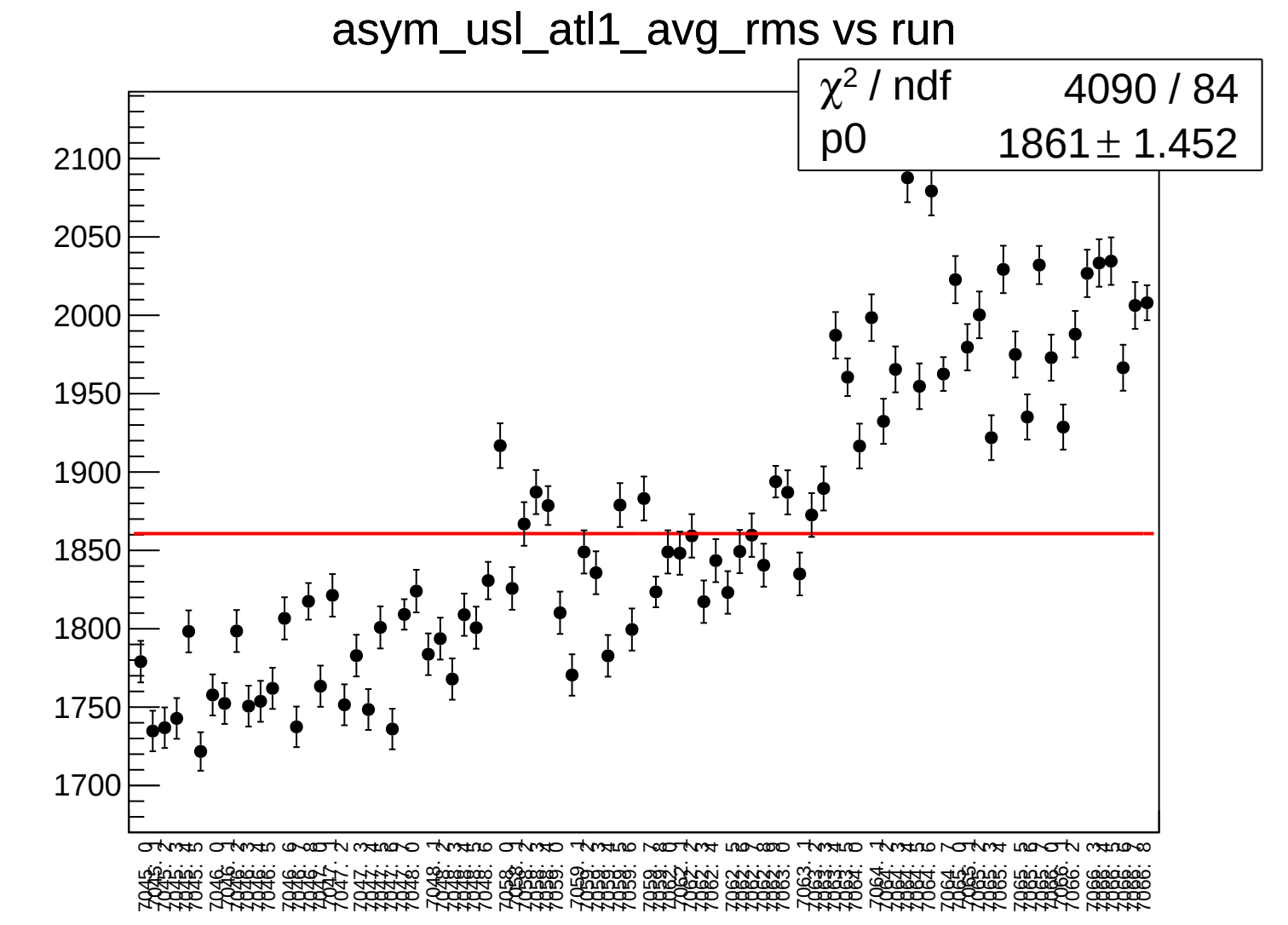

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.7 / 84
p0 −671.5 ± 1253
pull
Entries 85
Mean 196.9
Std Dev 0

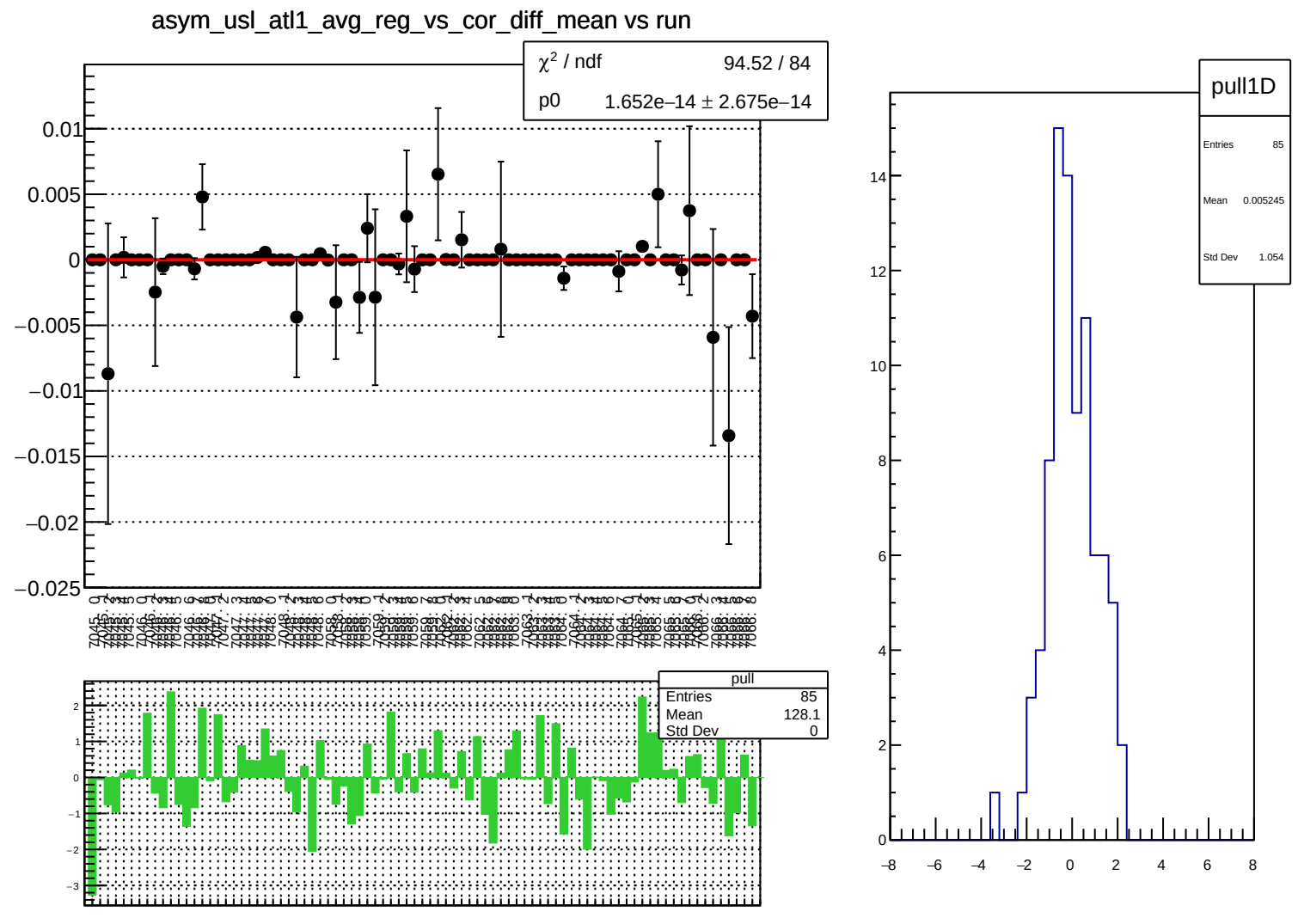

pull1D
Entries 85
Mean −0.04155
Std Dev 0.9795

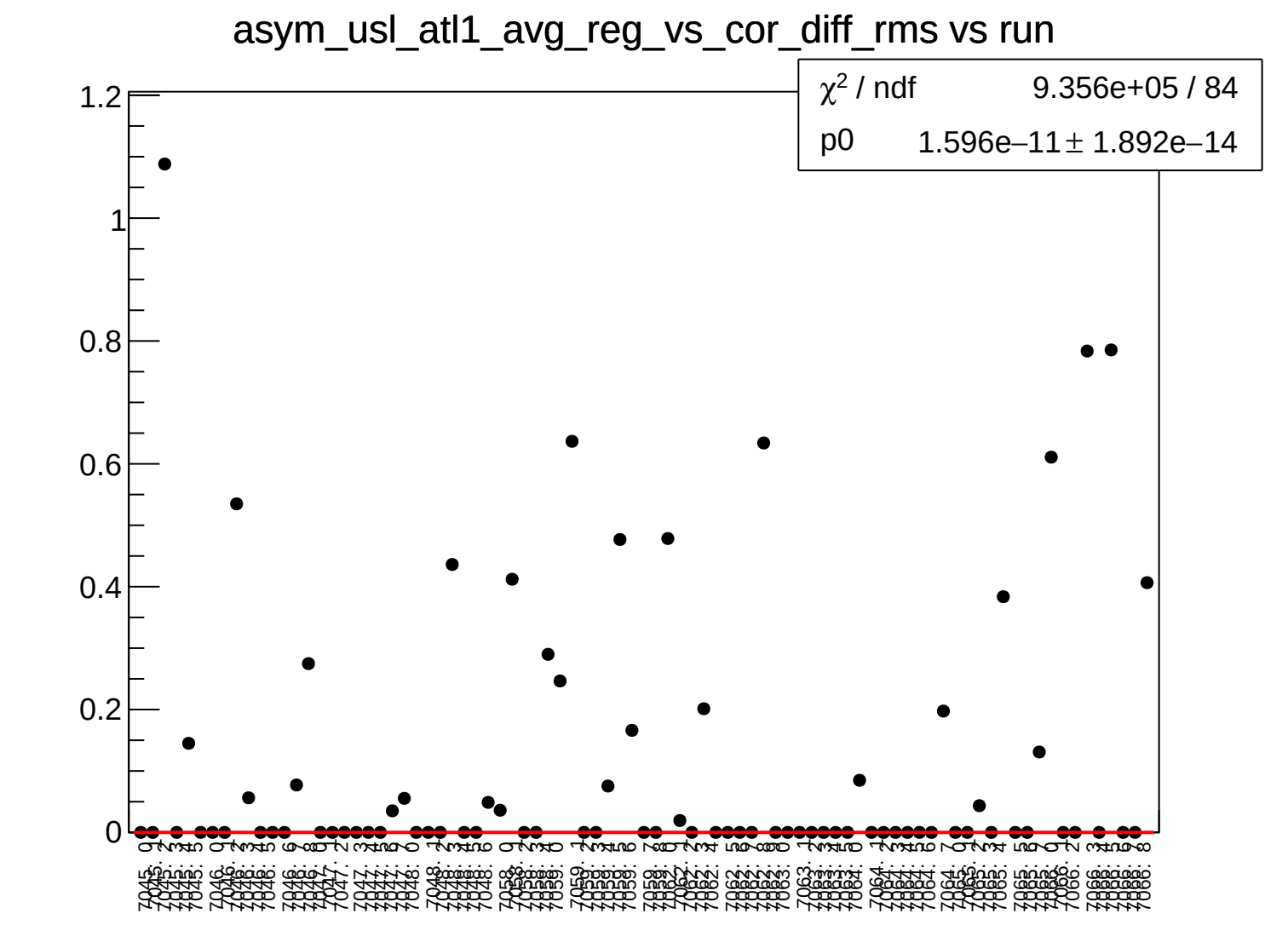

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.271e+04 / 84
p0 1129 ± 0.8861
1500
1400
1300
1200
1100
1000
900

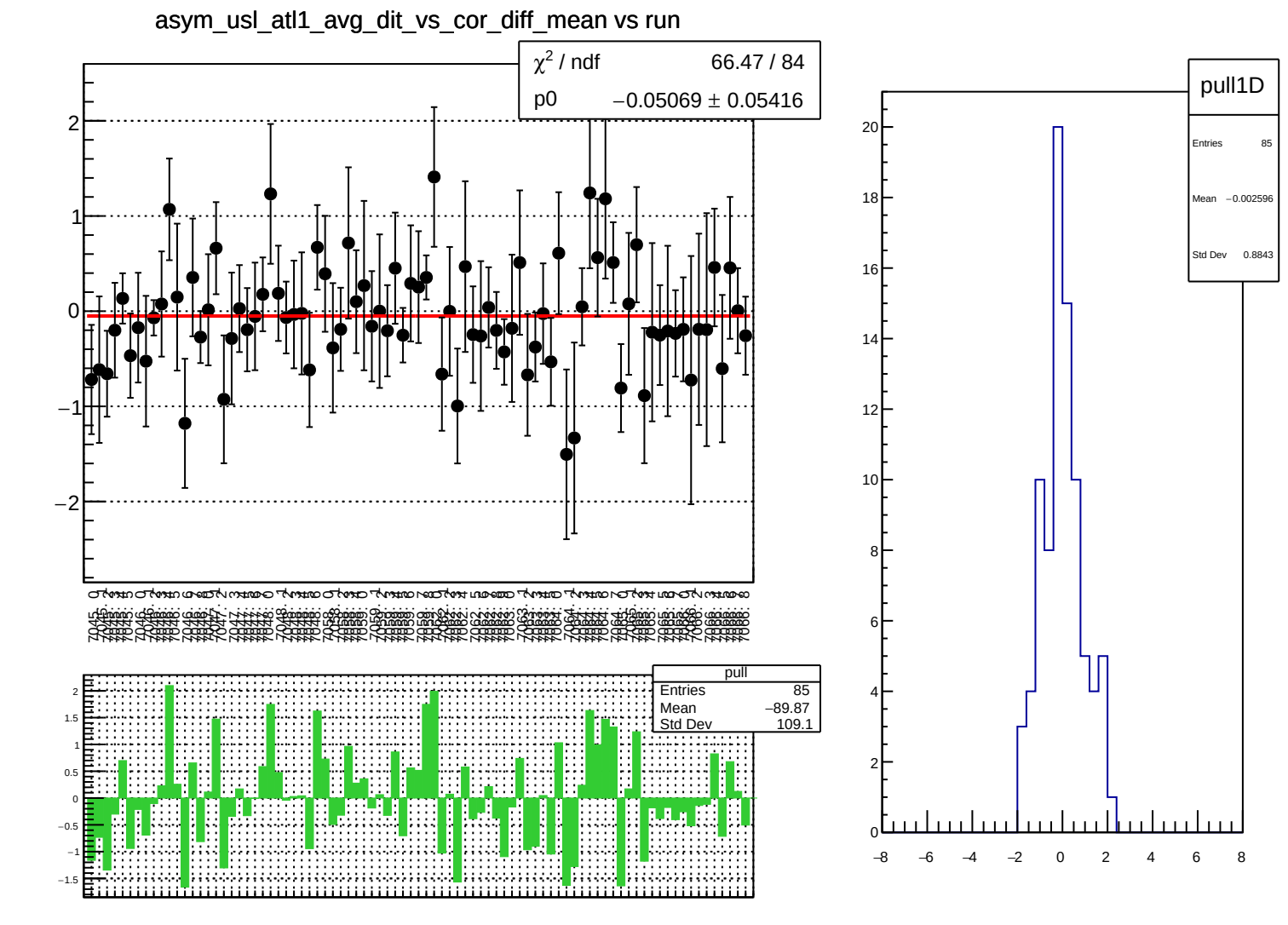

asym_usl_atl1_avg_mean vs run
χ² / ndf 90.1 / 84
p0 3222 ± 2053
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 419.2
Std Dev 0
2
1
0
−1
−2

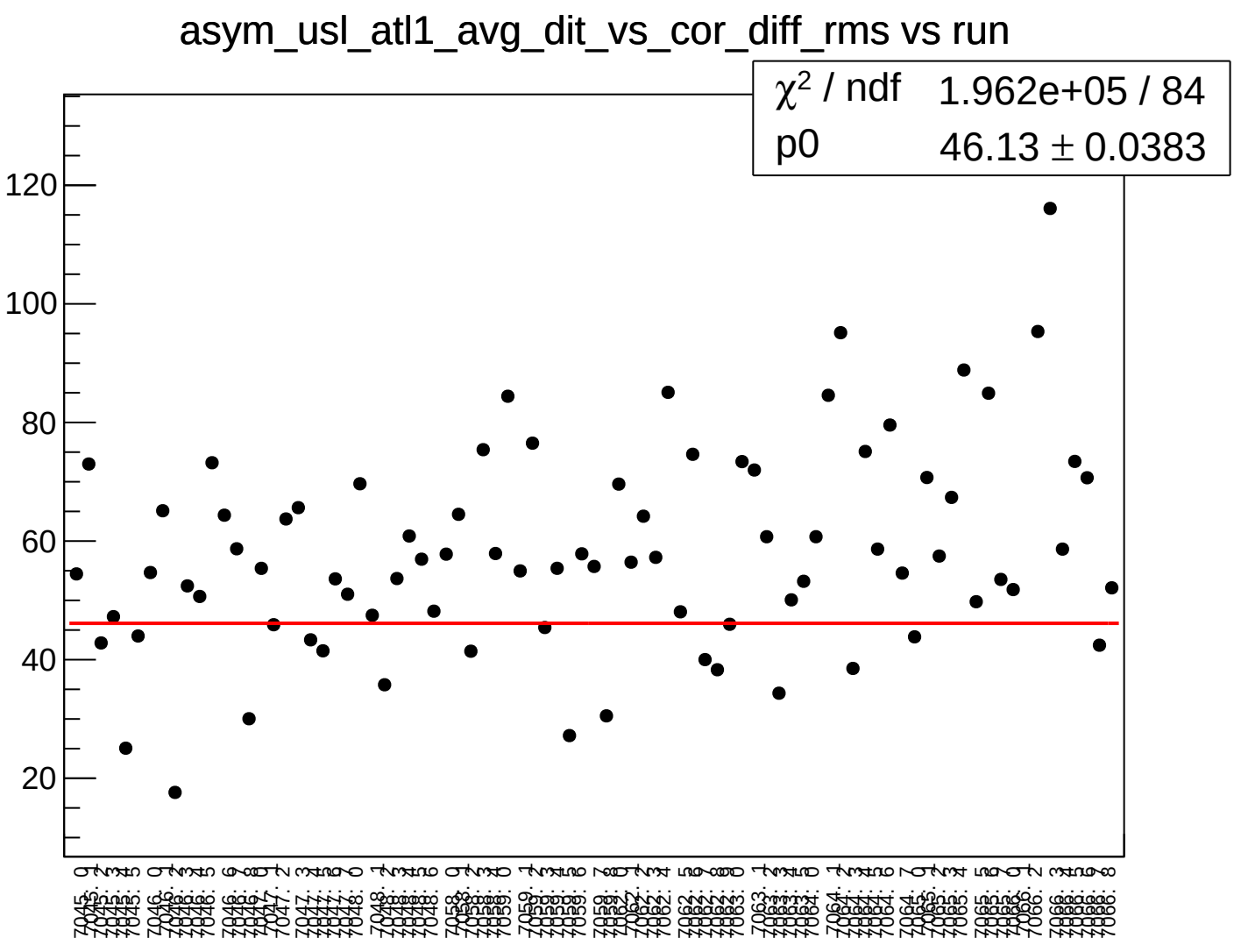

pull1D
Entries 85
Mean 0.02213
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

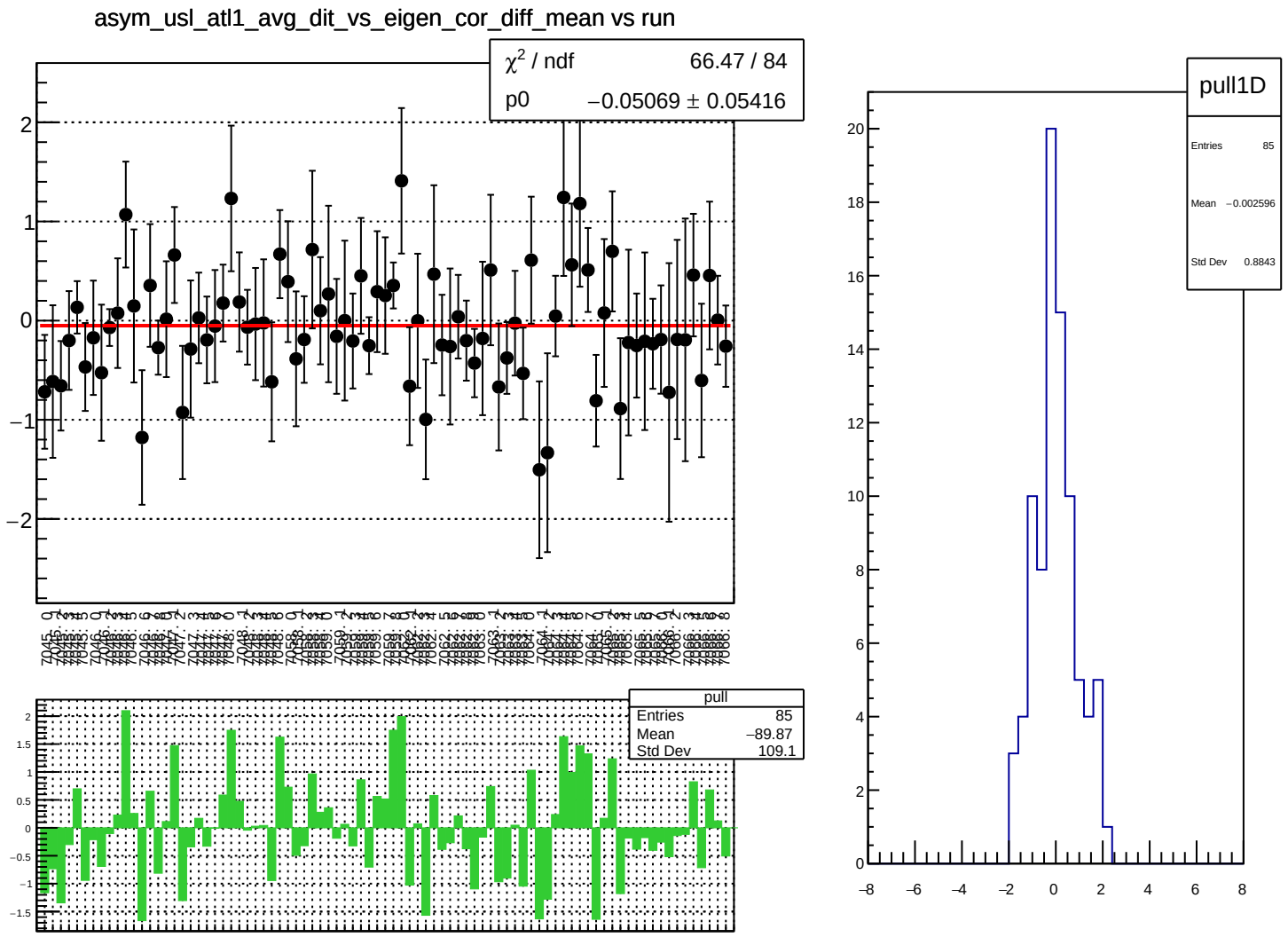

asym_usl_atl1_avg_rms vs run
χ² / ndf 4090 / 84
p0 1861 ± 1.452
2100
2050
2000
1950
1900
1850
1800
1750
1700

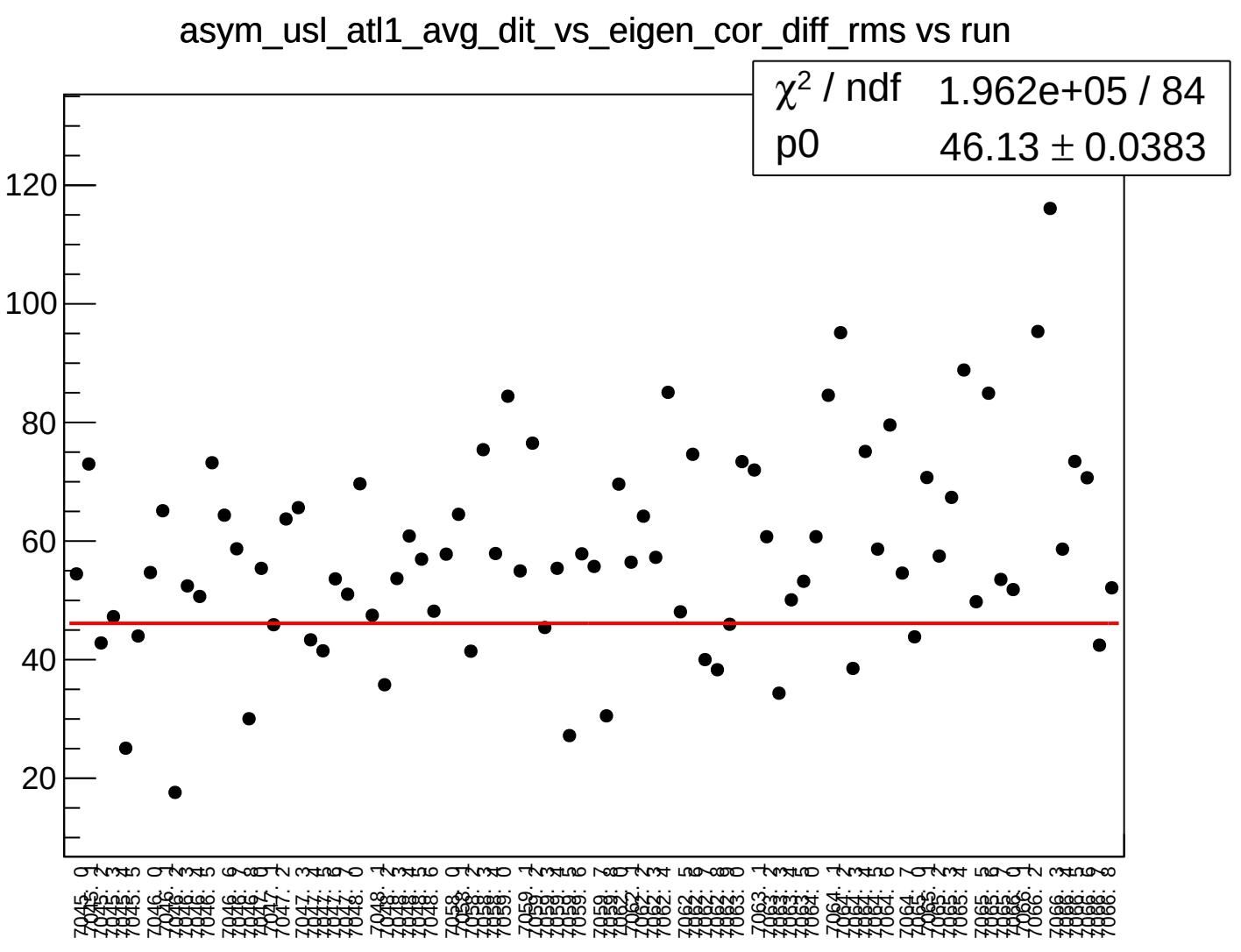

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.52 / 84
p0 1.652e−14 ± 2.675e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 85
Mean 128.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.005245
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

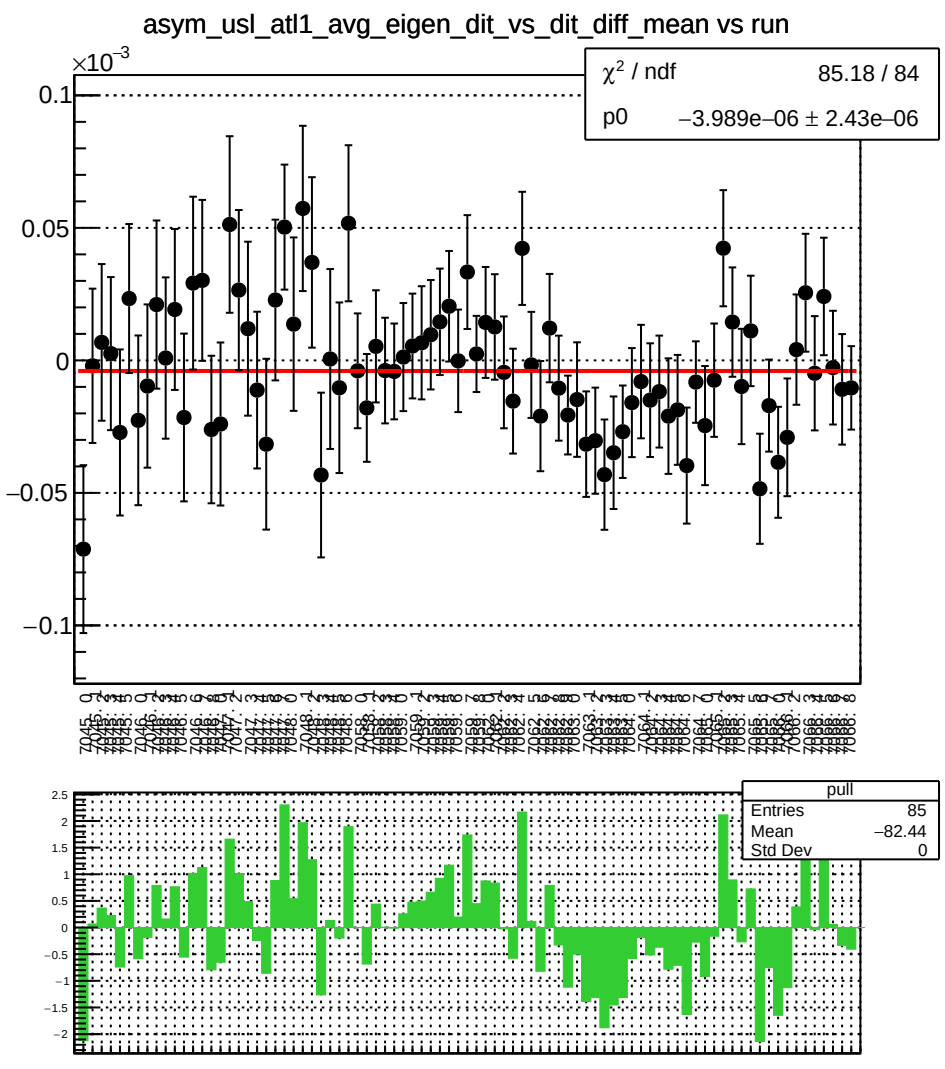

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.356e+05 / 84
p0 1.596e−11 ± 1.892e−14
1.2
1
0.8
0.6
0.4
0.2
0

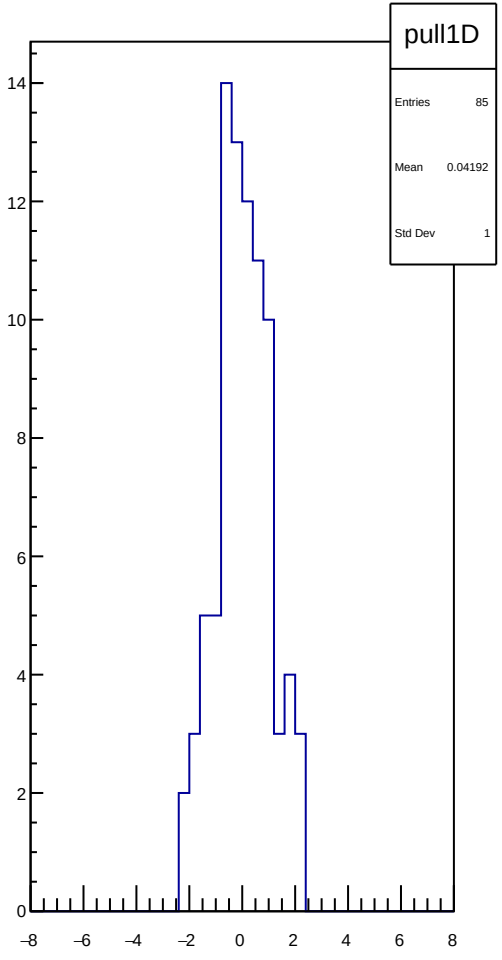

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.47 / 84
p0 −0.05069 ± 0.05416
pull
Entries 85
Mean −89.87
Std Dev 109.1
pull1D
Entries 85
Mean −0.002596
Std Dev 0.8843

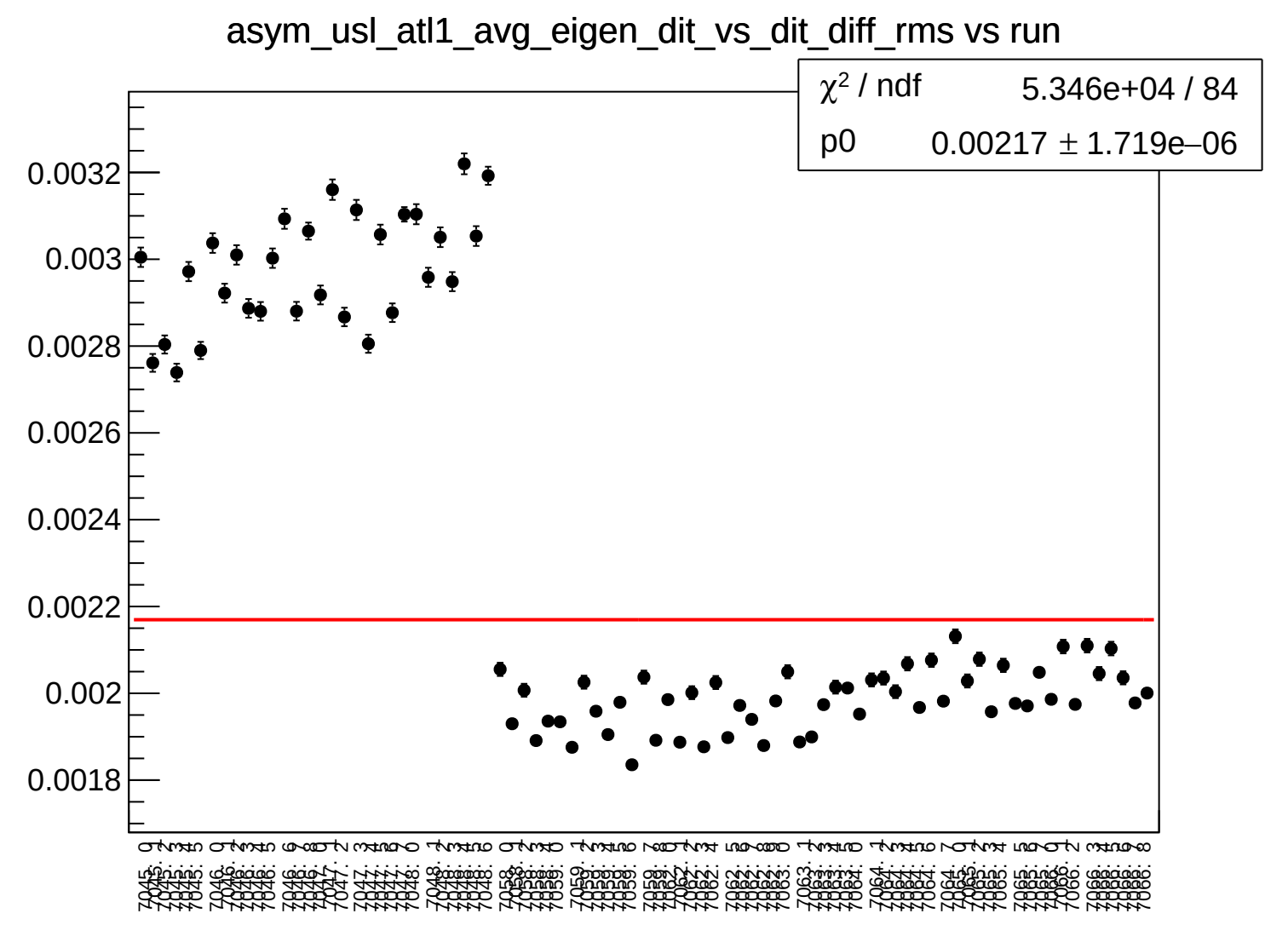

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 84
p0 46.13 ± 0.0383
120
100
80
60
40
20

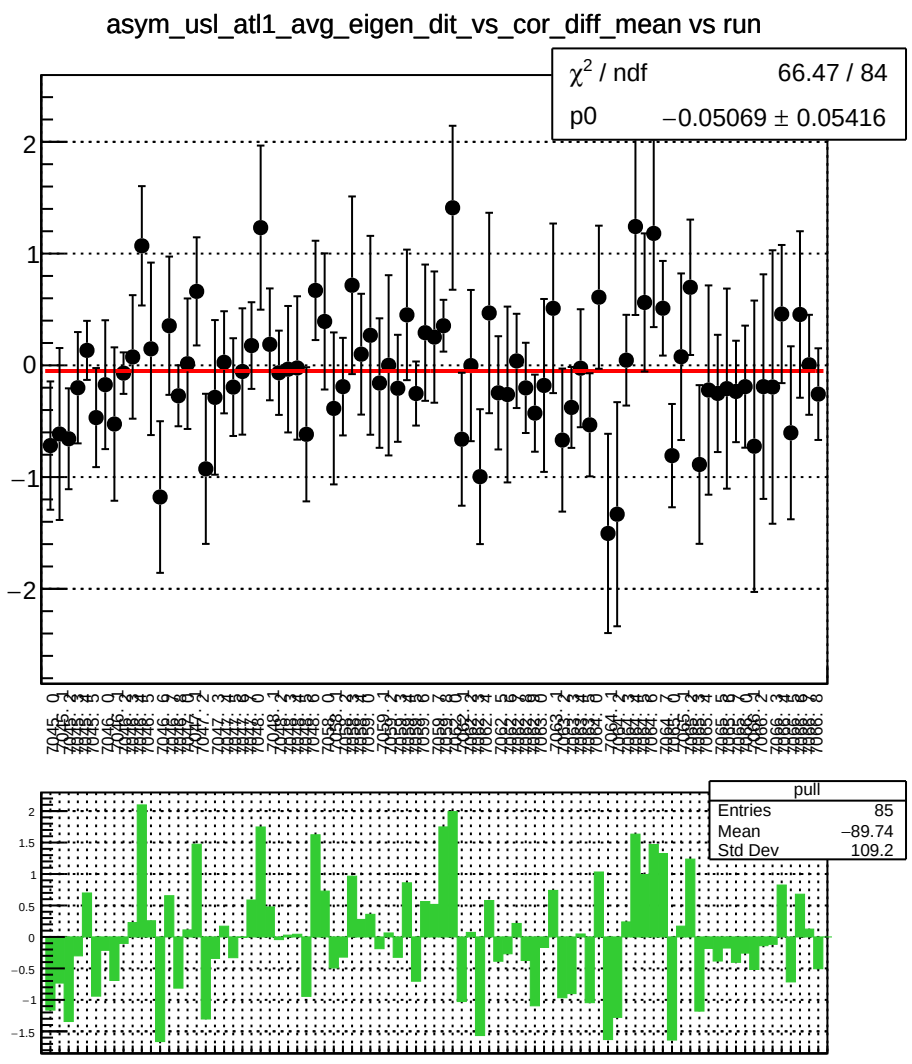

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.47 / 84
p0 −0.05069 ± 0.05416
pull
Entries 85
Mean −89.87
Std Dev 109.1
pull1D
Entries 85
Mean −0.002596
Std Dev 0.8843

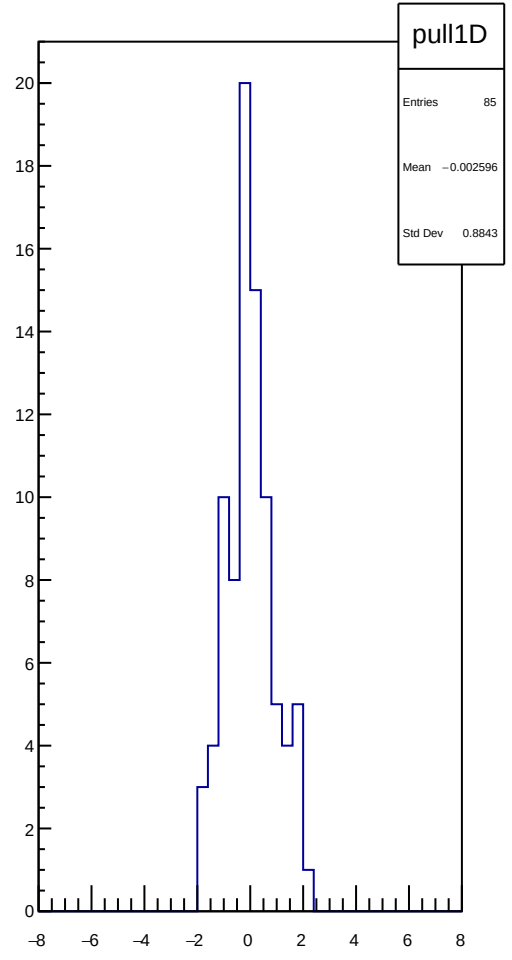

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 84
p0 46.13 ± 0.0383
120
100
80
60
40
20

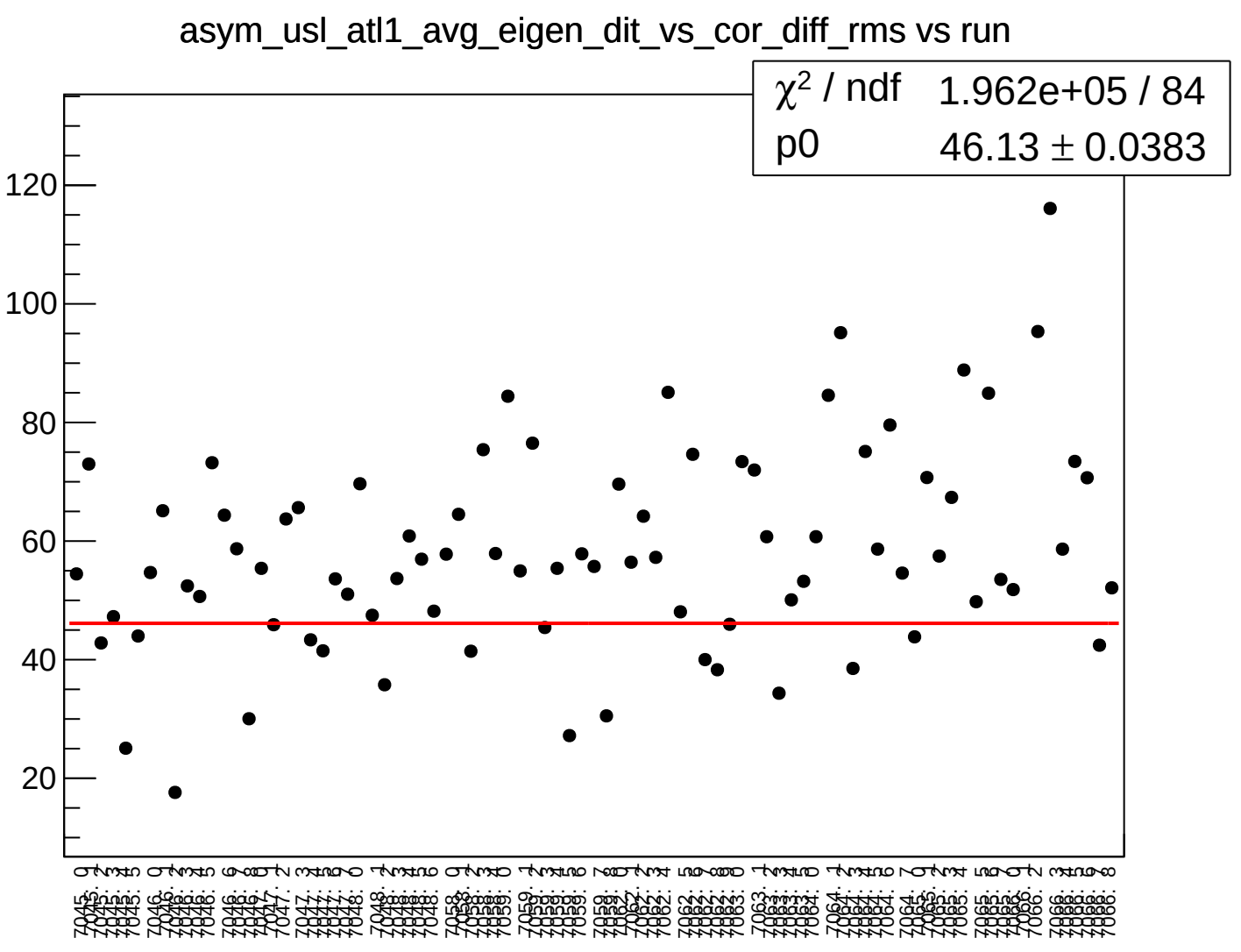

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.18 / 84
p0 −3.989e−06 ± 2.43e−06
pull
Entries 85
Mean −82.44
Std Dev 0

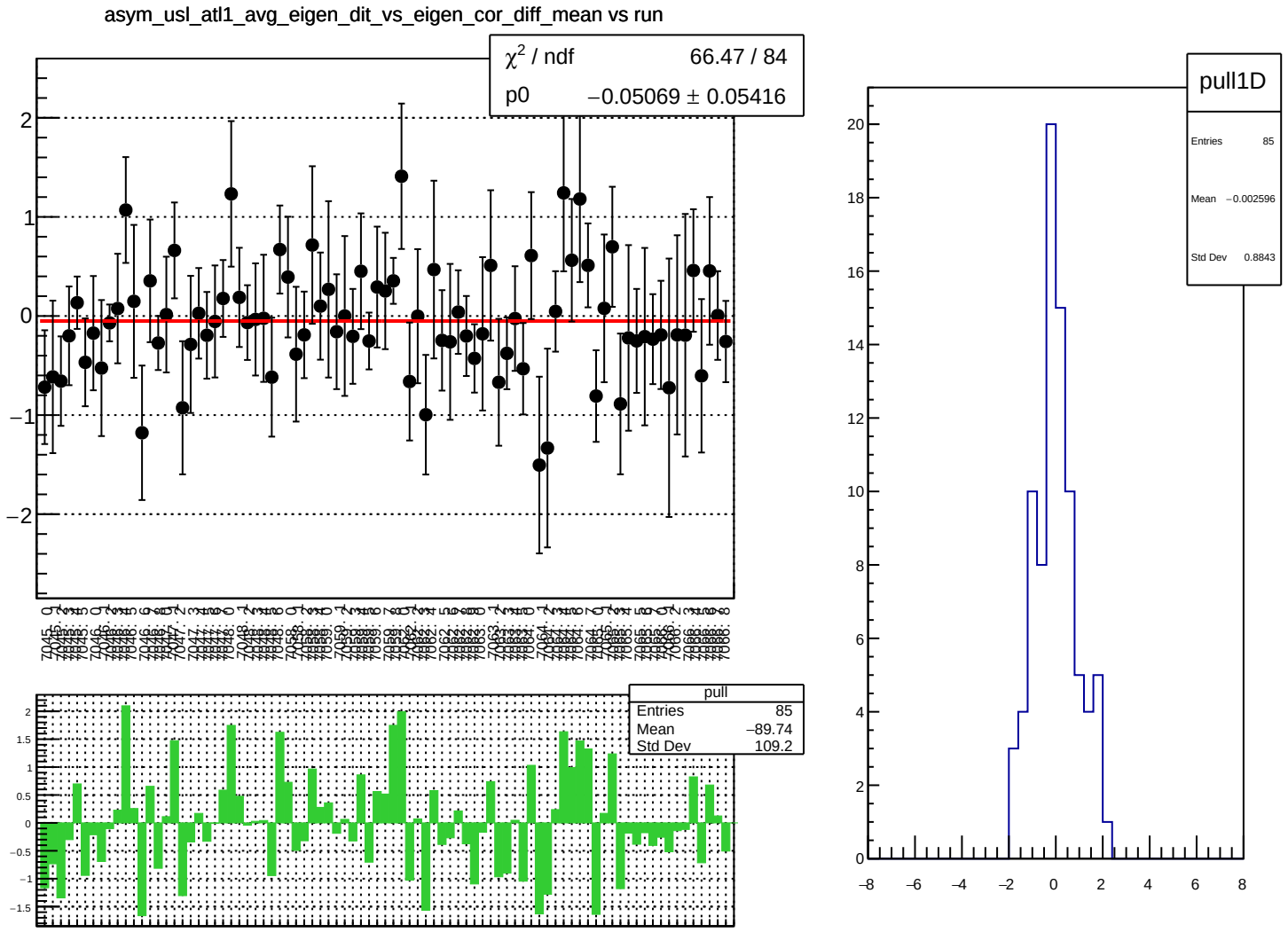

pull1D
Entries 85
Mean 0.04192
Std Dev 1

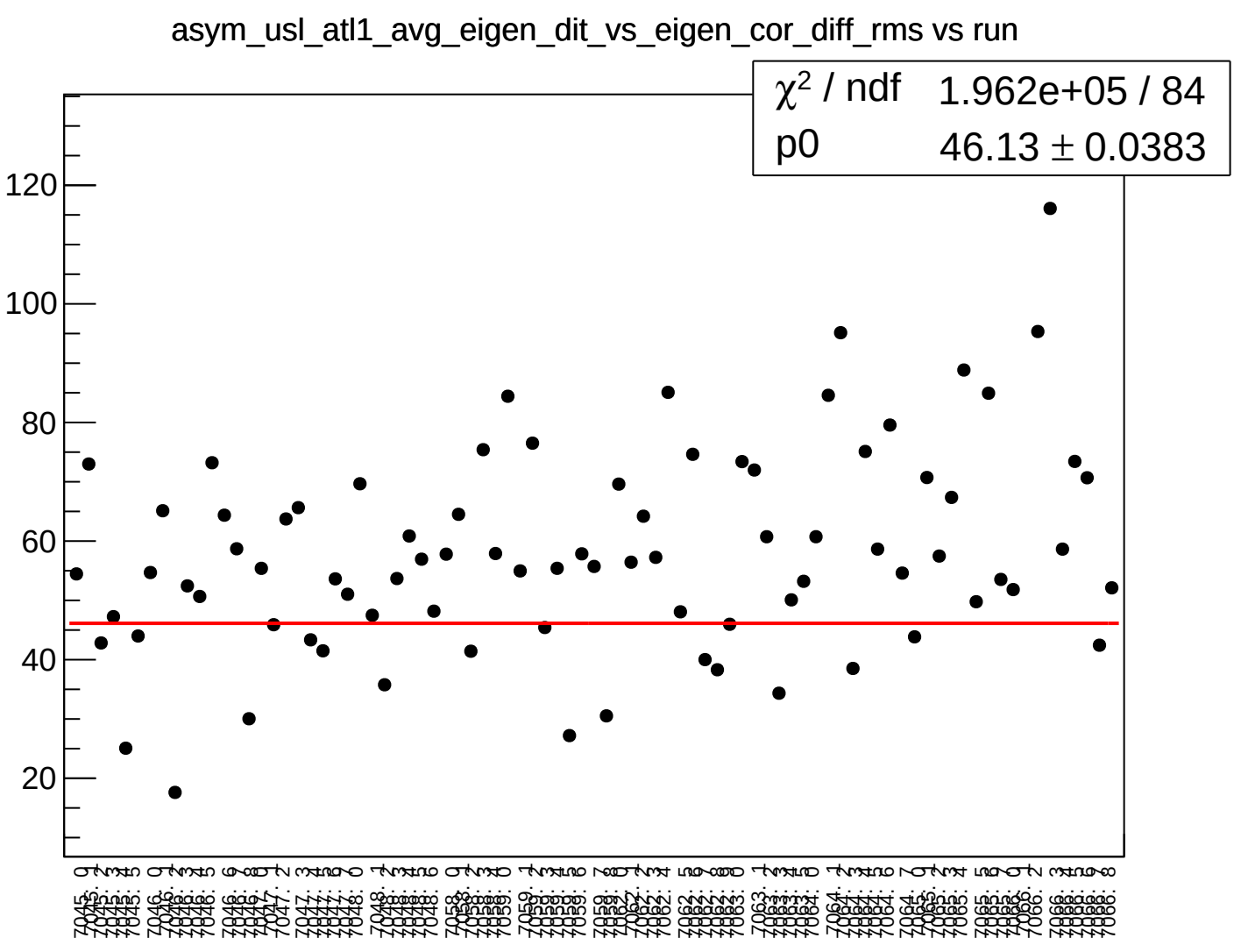

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.346e+04 / 84
p0 0.00217 ± 1.719e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

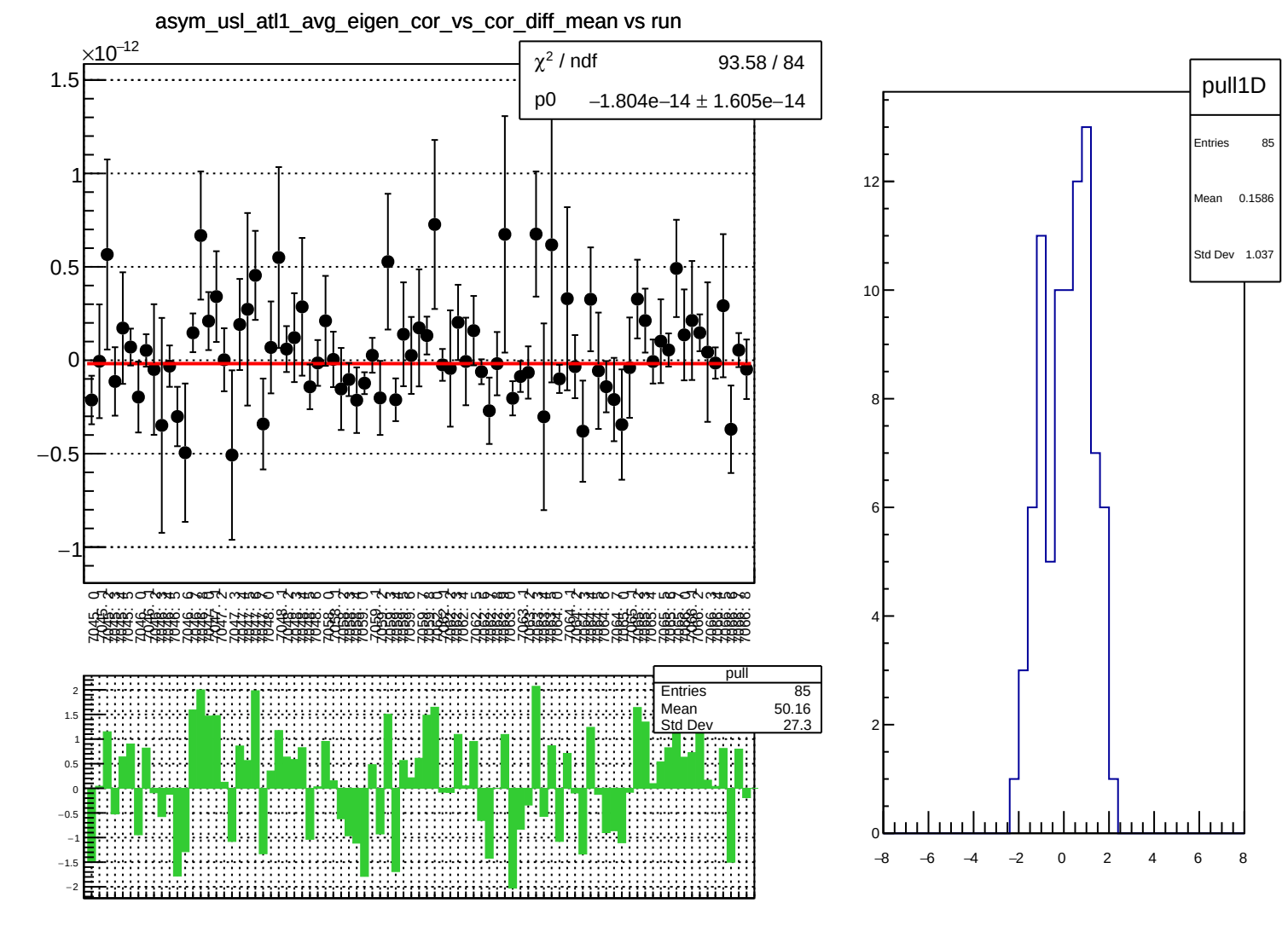

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.47 / 84
p0 −0.05069 ± 0.05416
pull
Entries 85
Mean −89.74
Std Dev 109.2

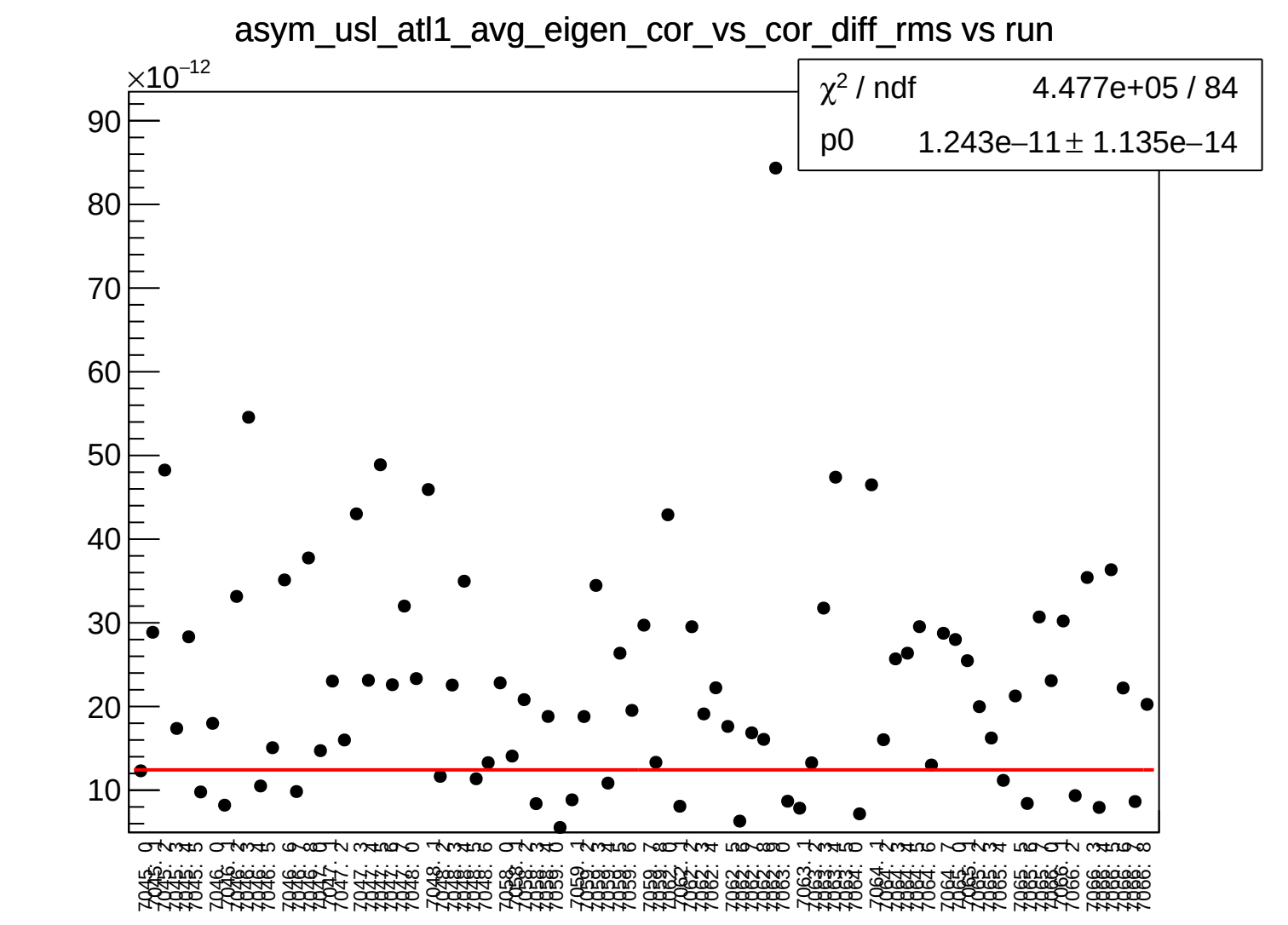

pull1D
Entries 85
Mean −0.002596
Std Dev 0.8843

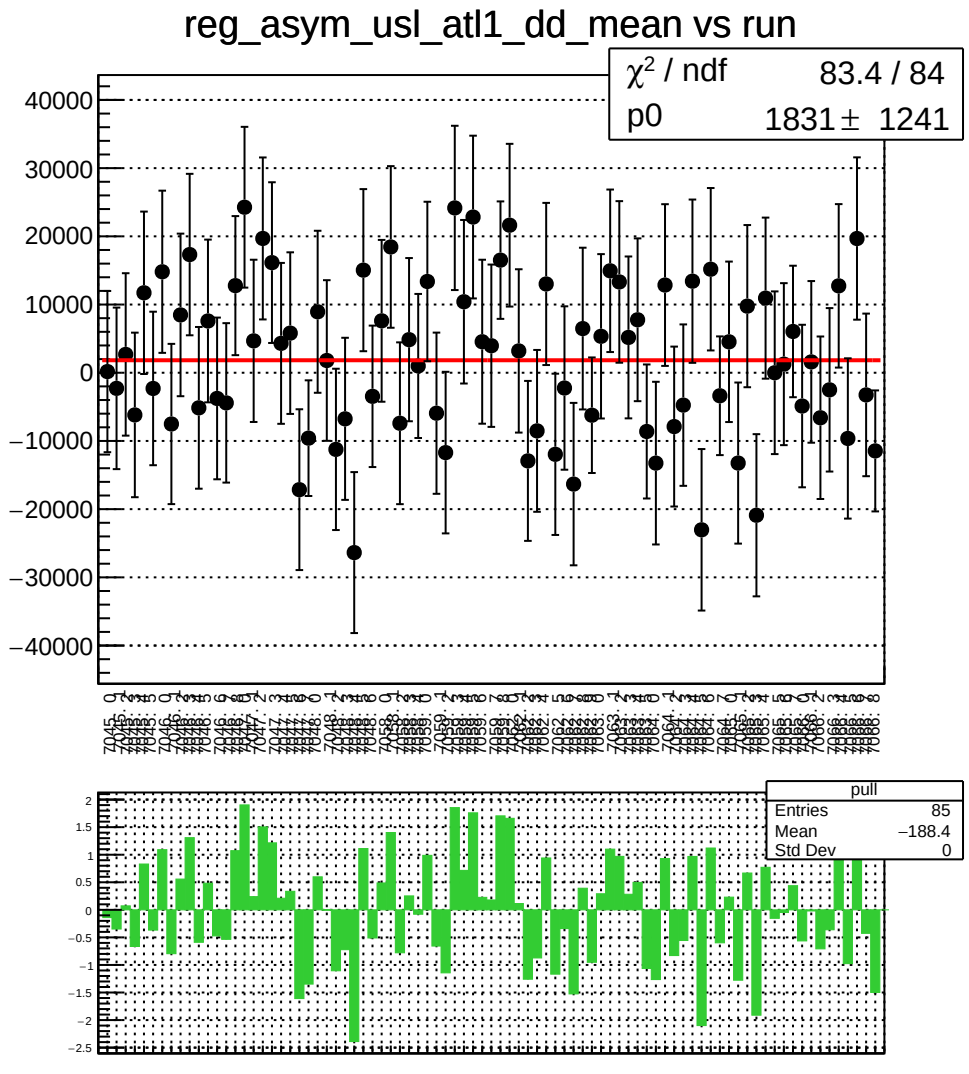

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 84
p0 46.13 ± 0.0383
120
100
80
60
40
20

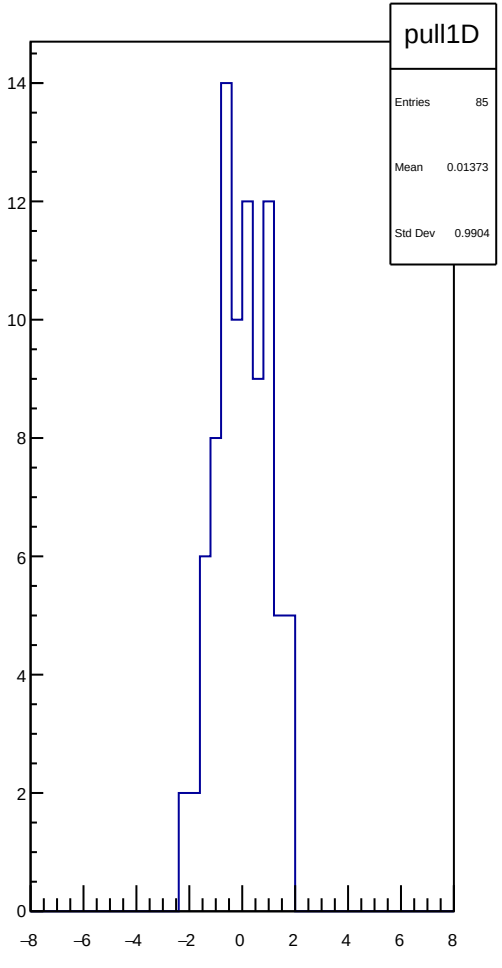

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.47 / 84
p0 −0.05069 ± 0.05416
pull
Entries 85
Mean −89.74
Std Dev 109.2
pull1D
Entries 85
Mean −0.002596
Std Dev 0.8843

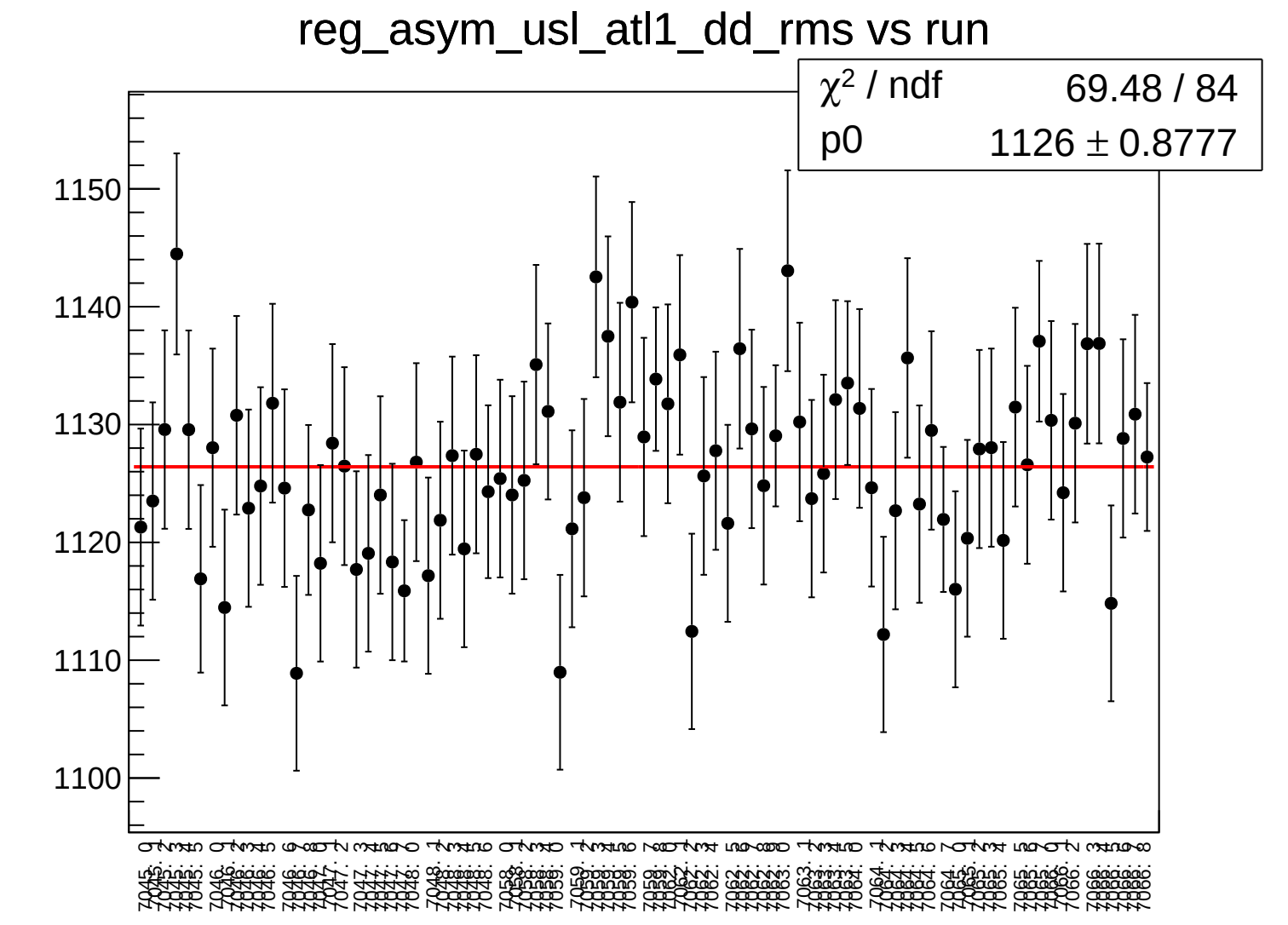

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.962e+05 / 84
p0 46.13 ± 0.0383
120
100
80
60
40
20

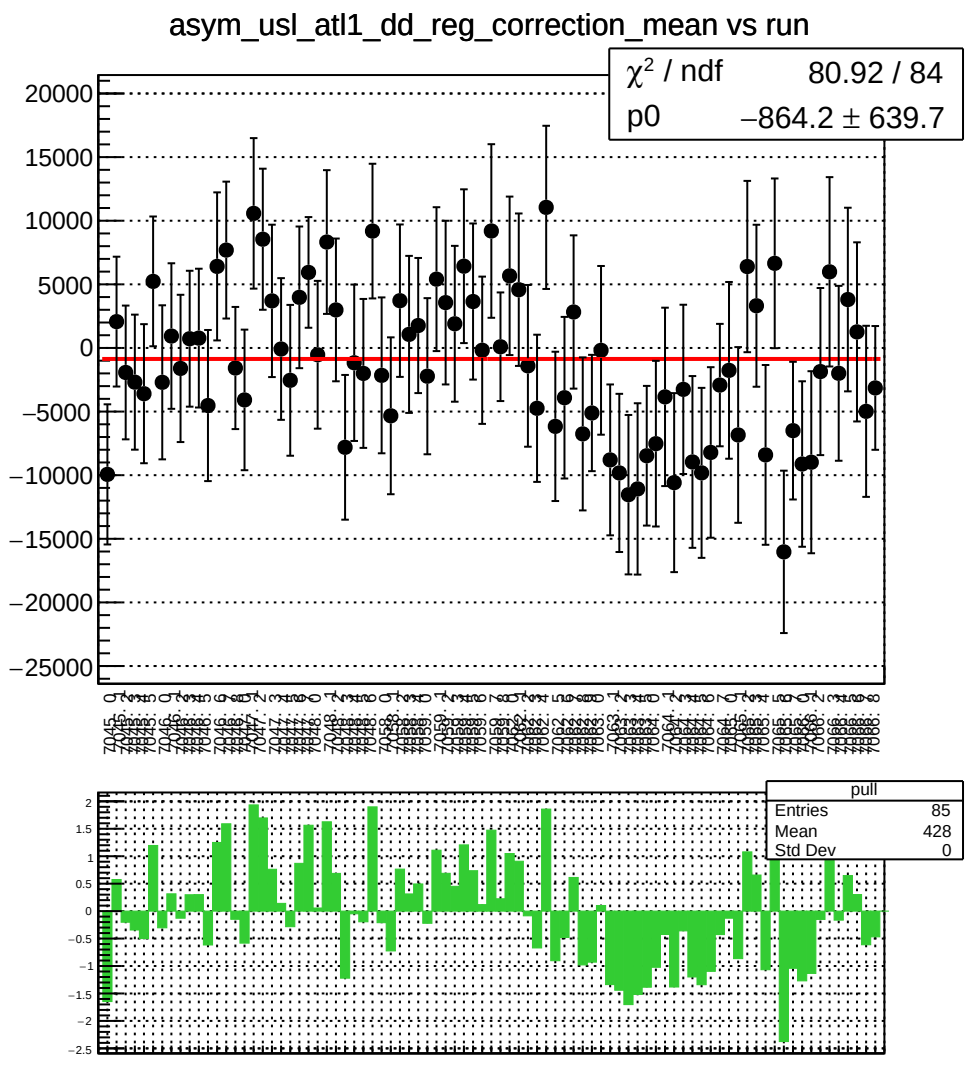

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.58 / 84
p0 −1.804e−14 ± 1.605e−14
pull
Entries 85
Mean 50.16
Std Dev 27.3
pull1D
Entries 85
Mean 0.1586
Std Dev 1.037

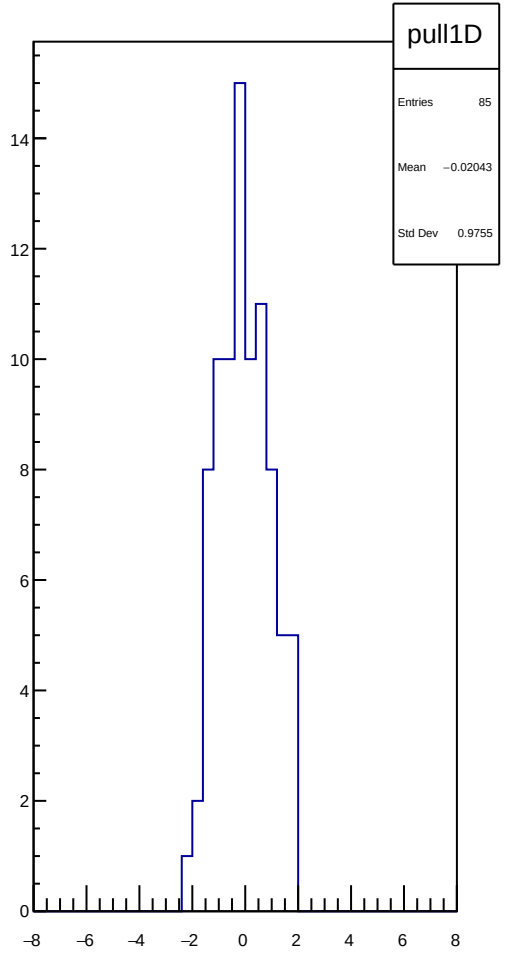

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.477e+05 / 84
p0 1.243e−11 ± 1.135e−14
90
80
70
60
50
40
30
20
10

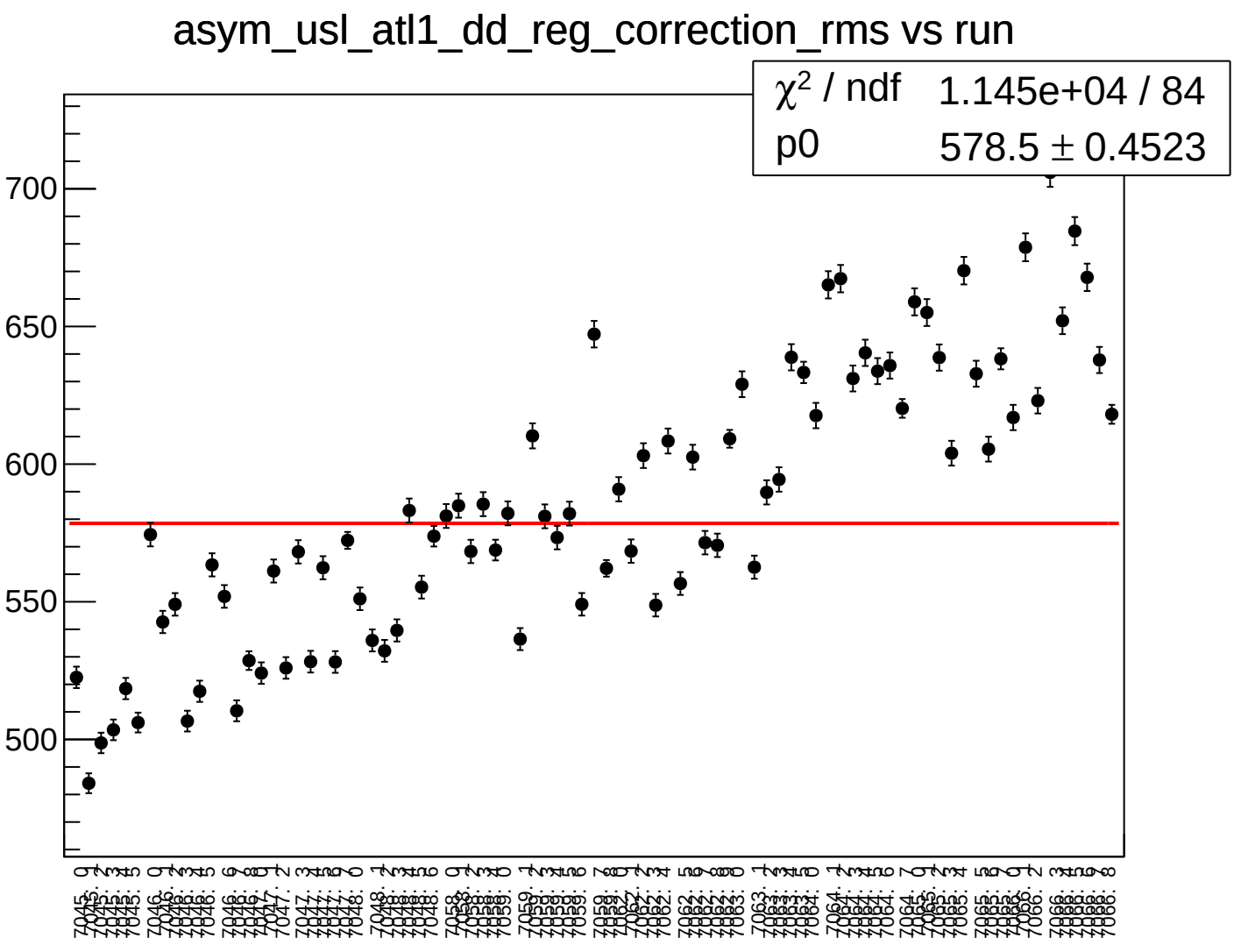

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.4 / 84
p0 1831 ± 1241
pull
Entries 85
Mean −188.4
Std Dev 0

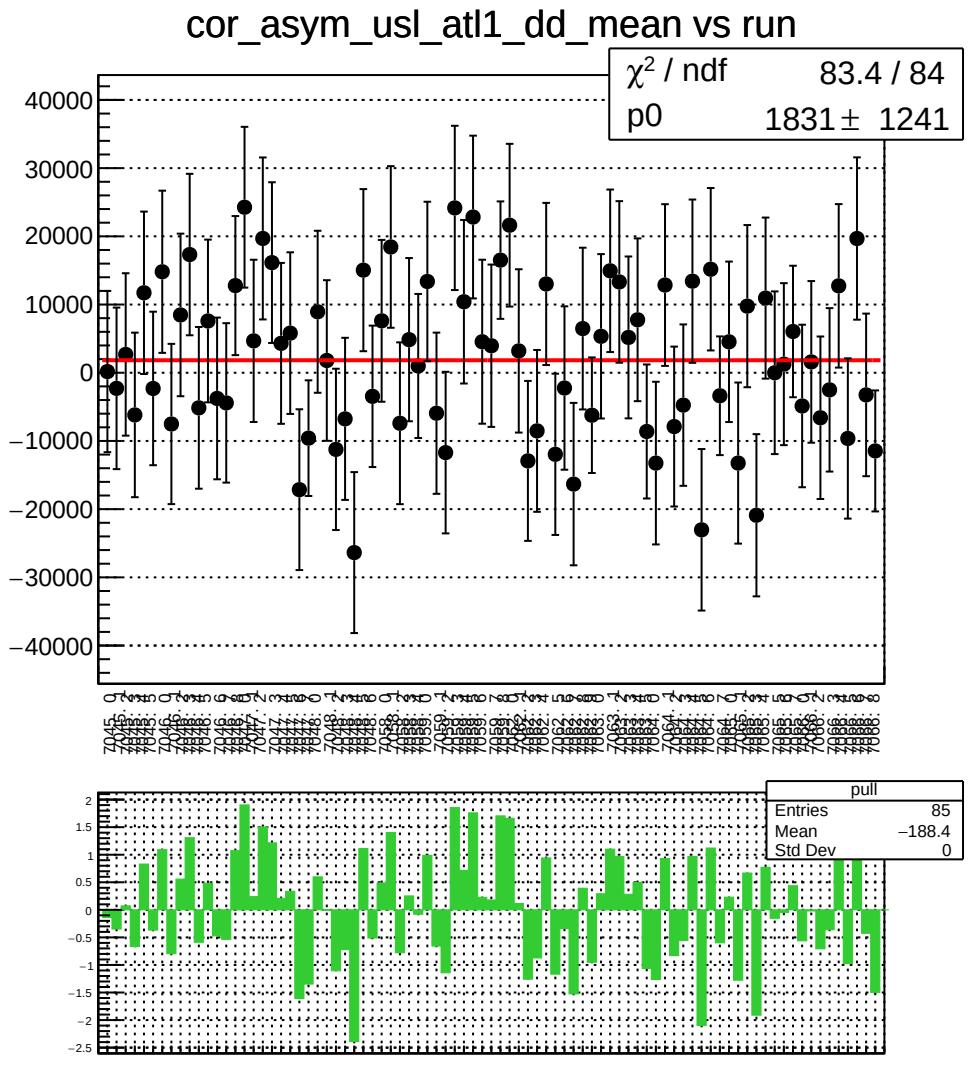

pull1D
Entries 85
Mean 0.01373
Std Dev 0.9904

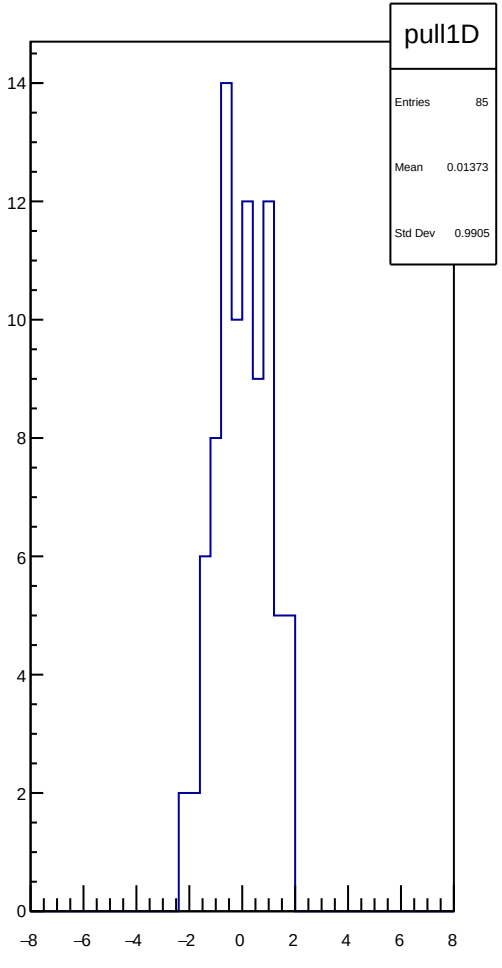

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 69.48 / 84
p0 1126 ± 0.8777
1150
1140
1130
1120
1110
1100

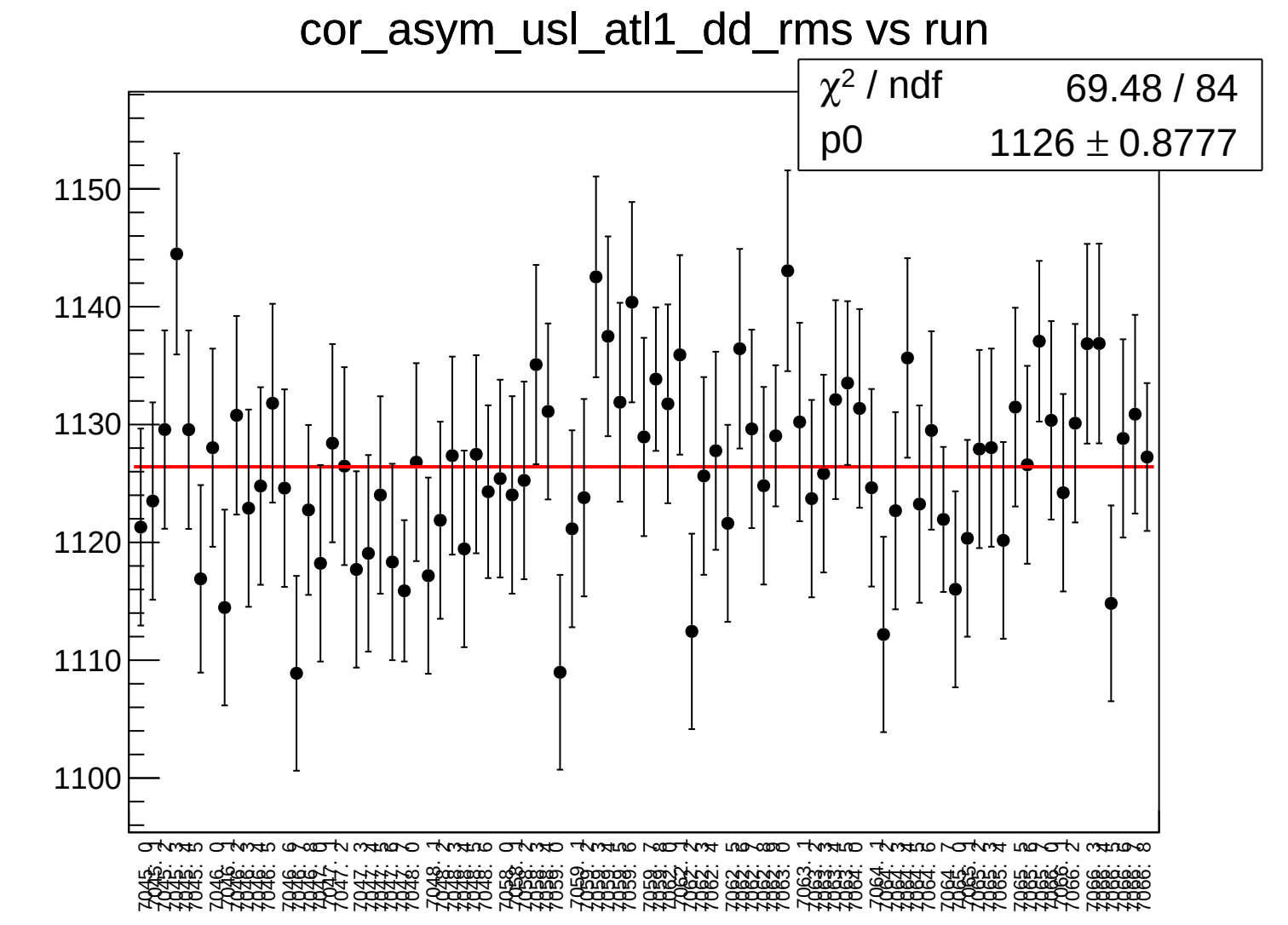

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 80.92 / 84
p0 −864.2 ± 639.7
pull
Entries 85
Mean 428
Std Dev 0

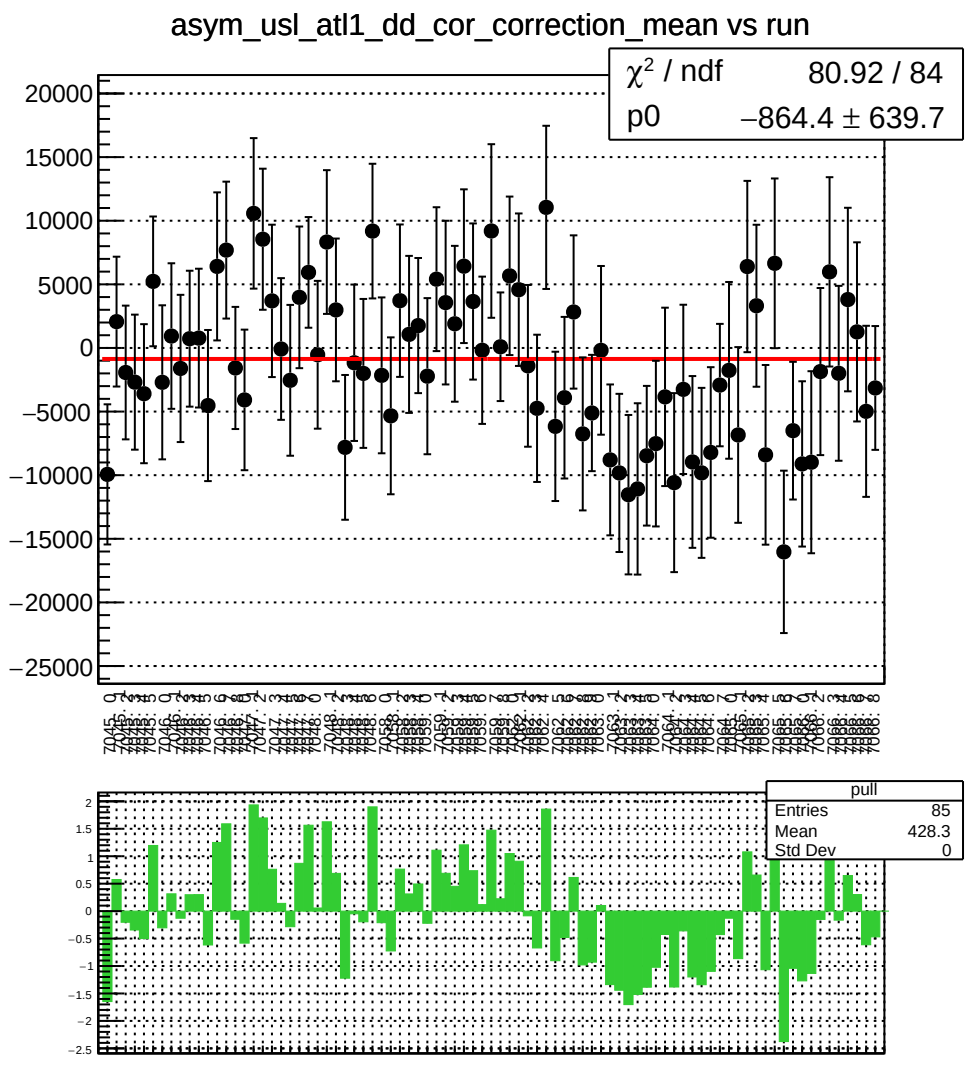

pull1D
Entries 85
Mean −0.02043
Std Dev 0.9755

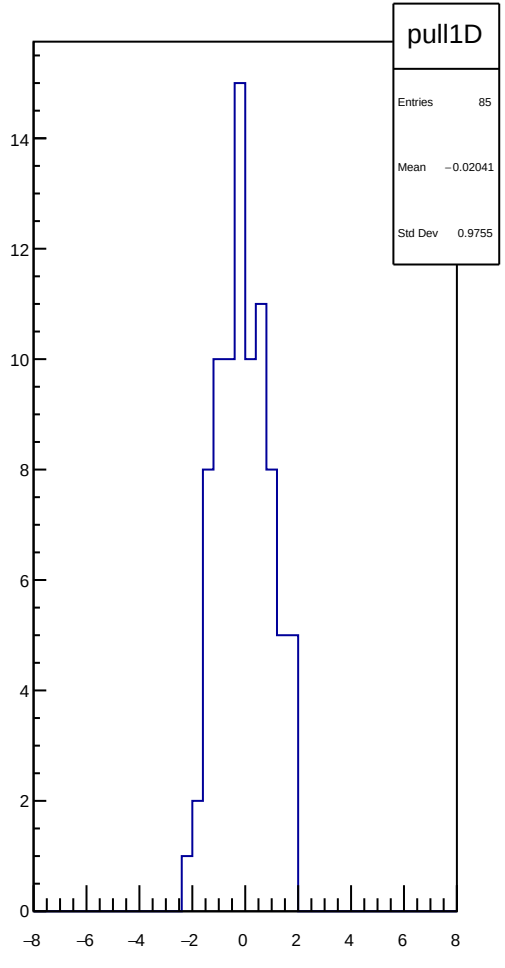

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.145e+04 / 84
p0 578.5 ± 0.4523
700
650
600
550
500

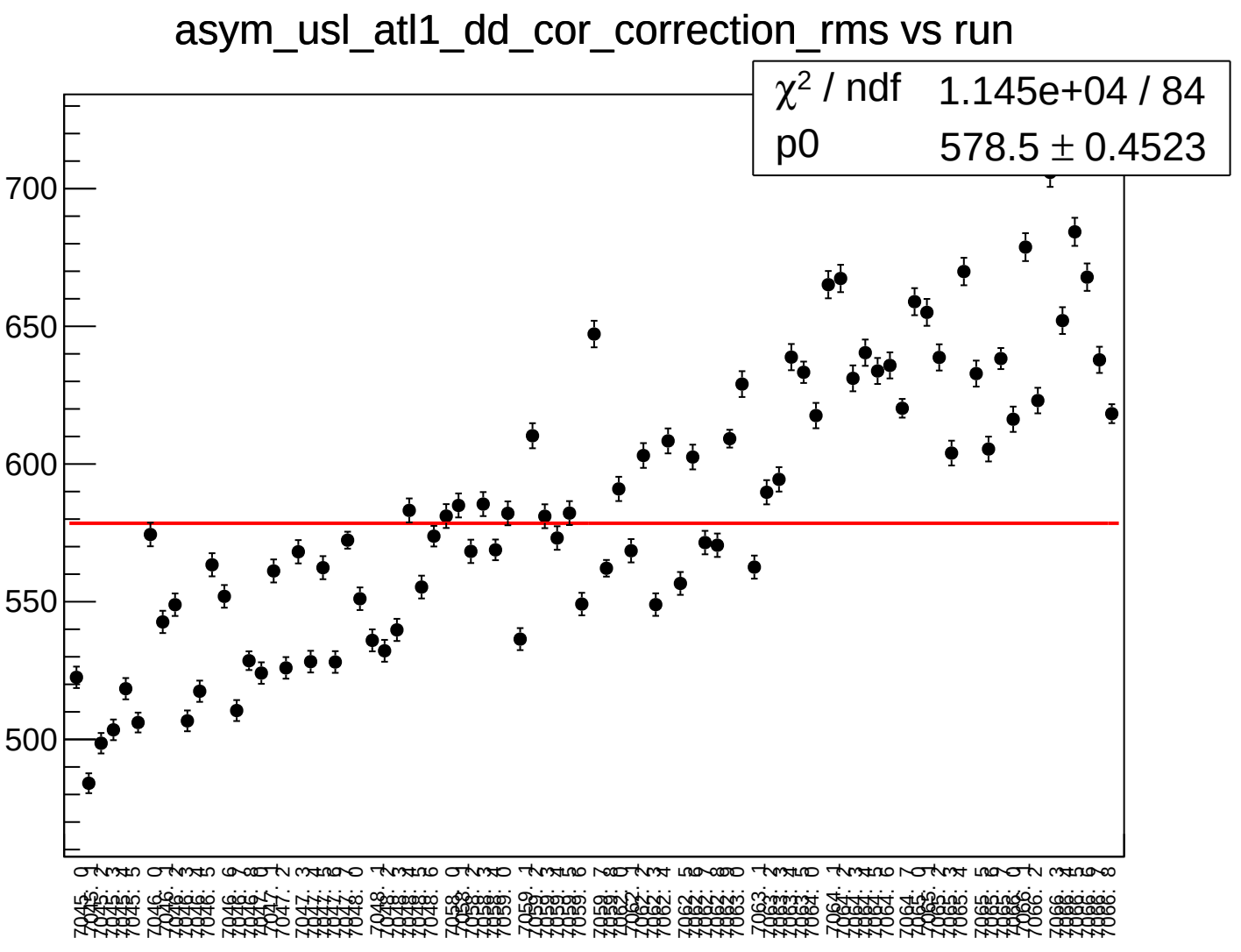

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.4 / 84
p0 1831 ± 1241
pull
Entries 85
Mean −188.4
Std Dev 0

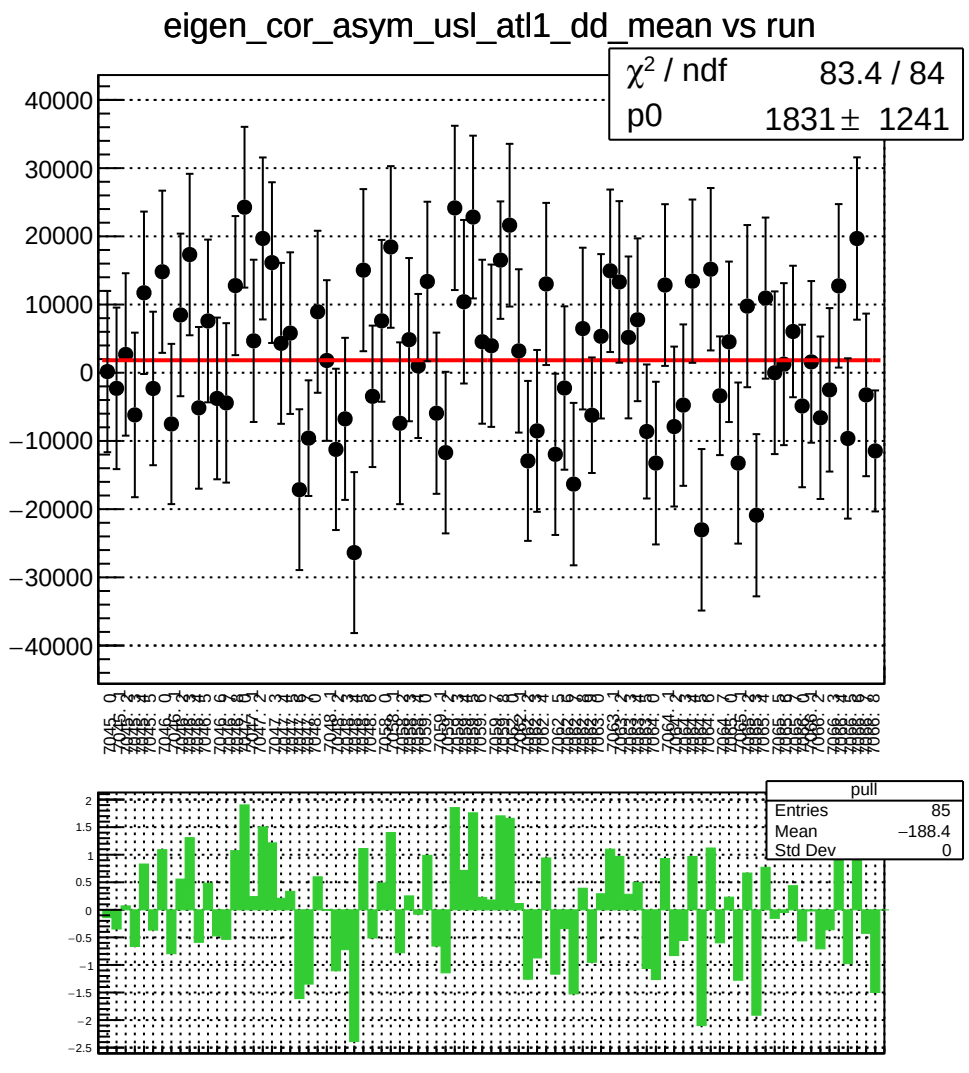

pull1D
Entries 85
Mean 0.01373
Std Dev 0.9905

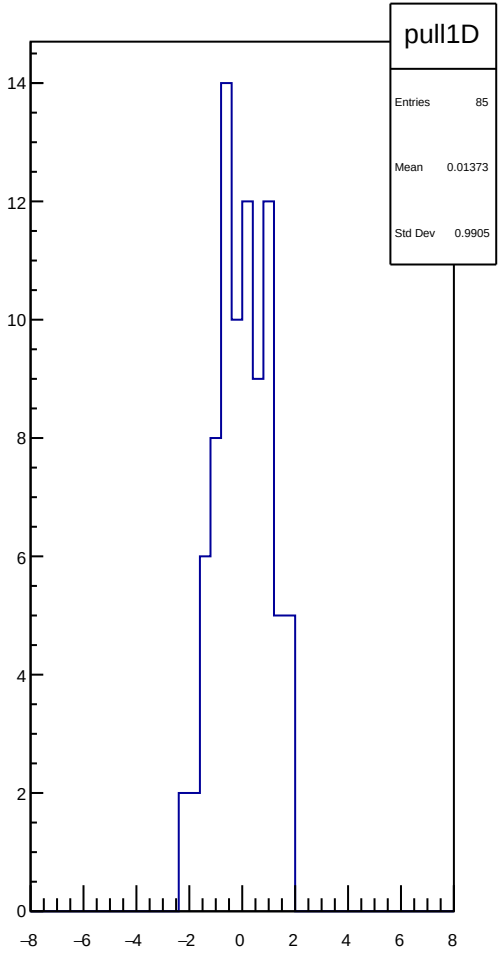

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 69.48 / 84
p0 1126 ± 0.8777
1150
1140
1130
1120
1110
1100

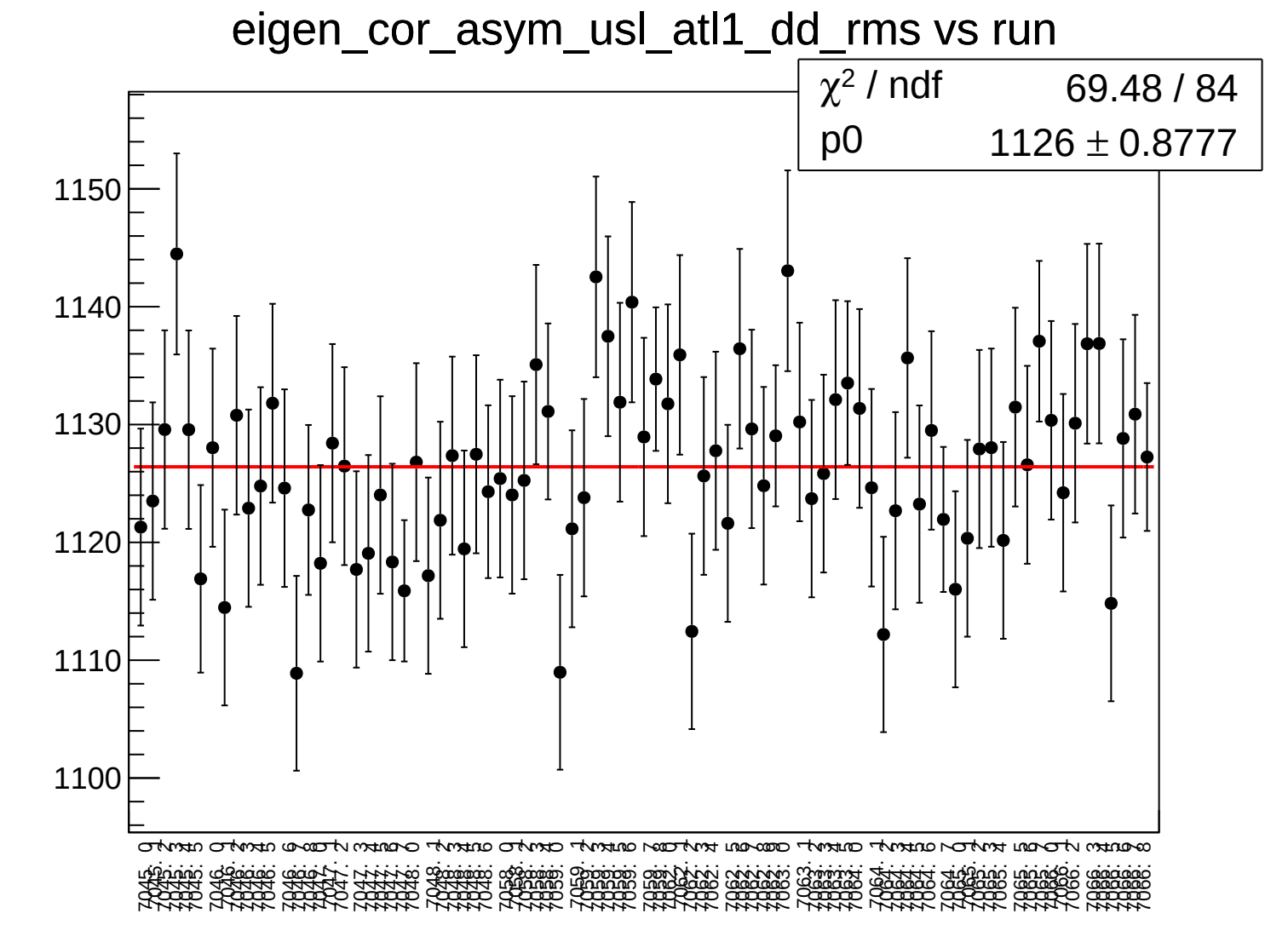

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 80.92 / 84
p0 −864.4 ± 639.7
pull
Entries 85
Mean 428.3
Std Dev 0

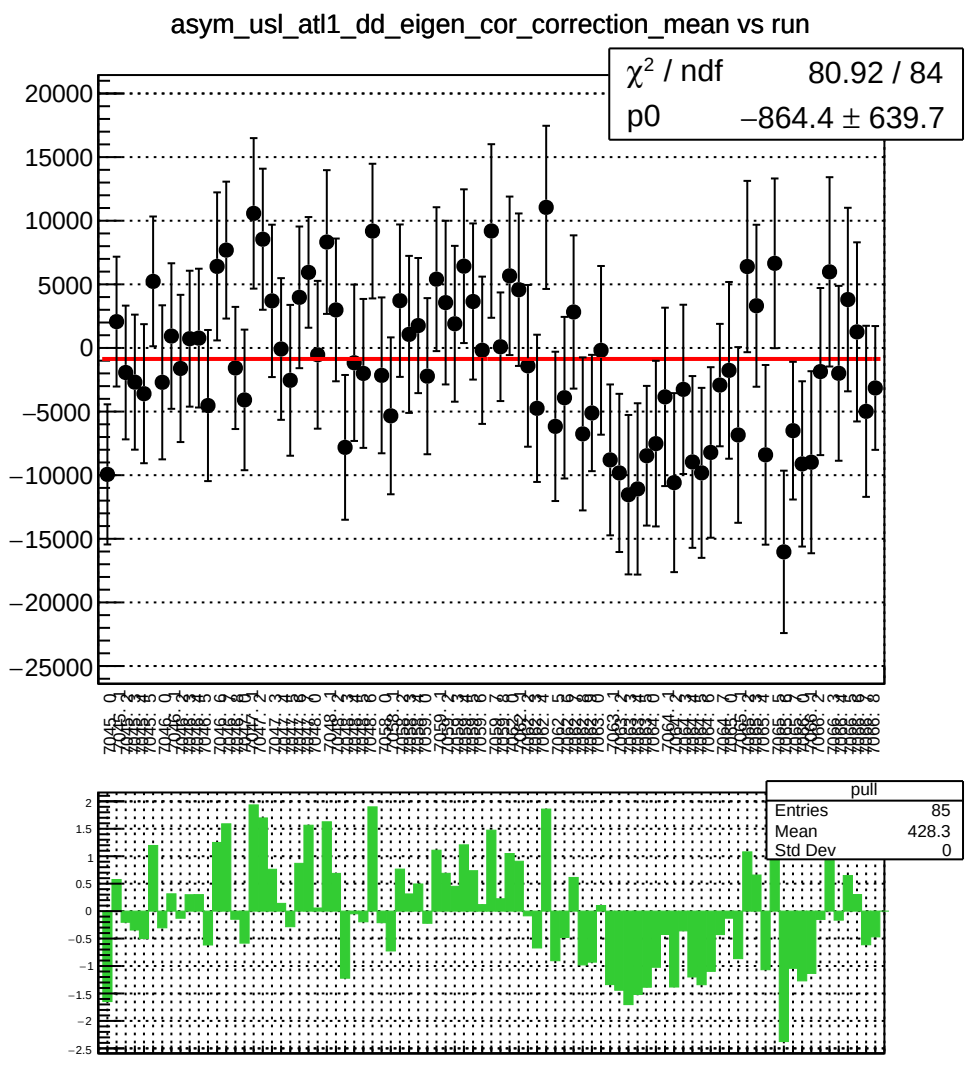

pull1D
Entries 85
Mean −0.02041
Std Dev 0.9755

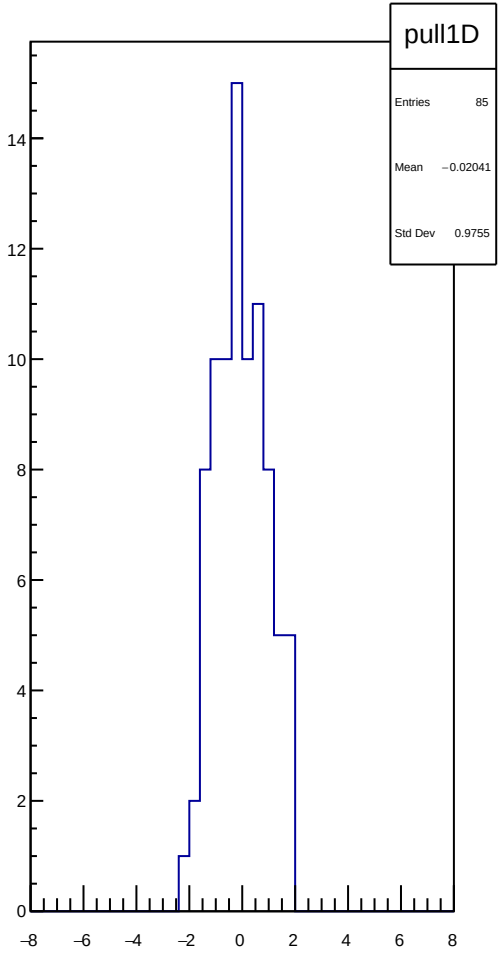

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.145e+04 / 84
p0 578.5 ± 0.4523
700
650
600
550
500

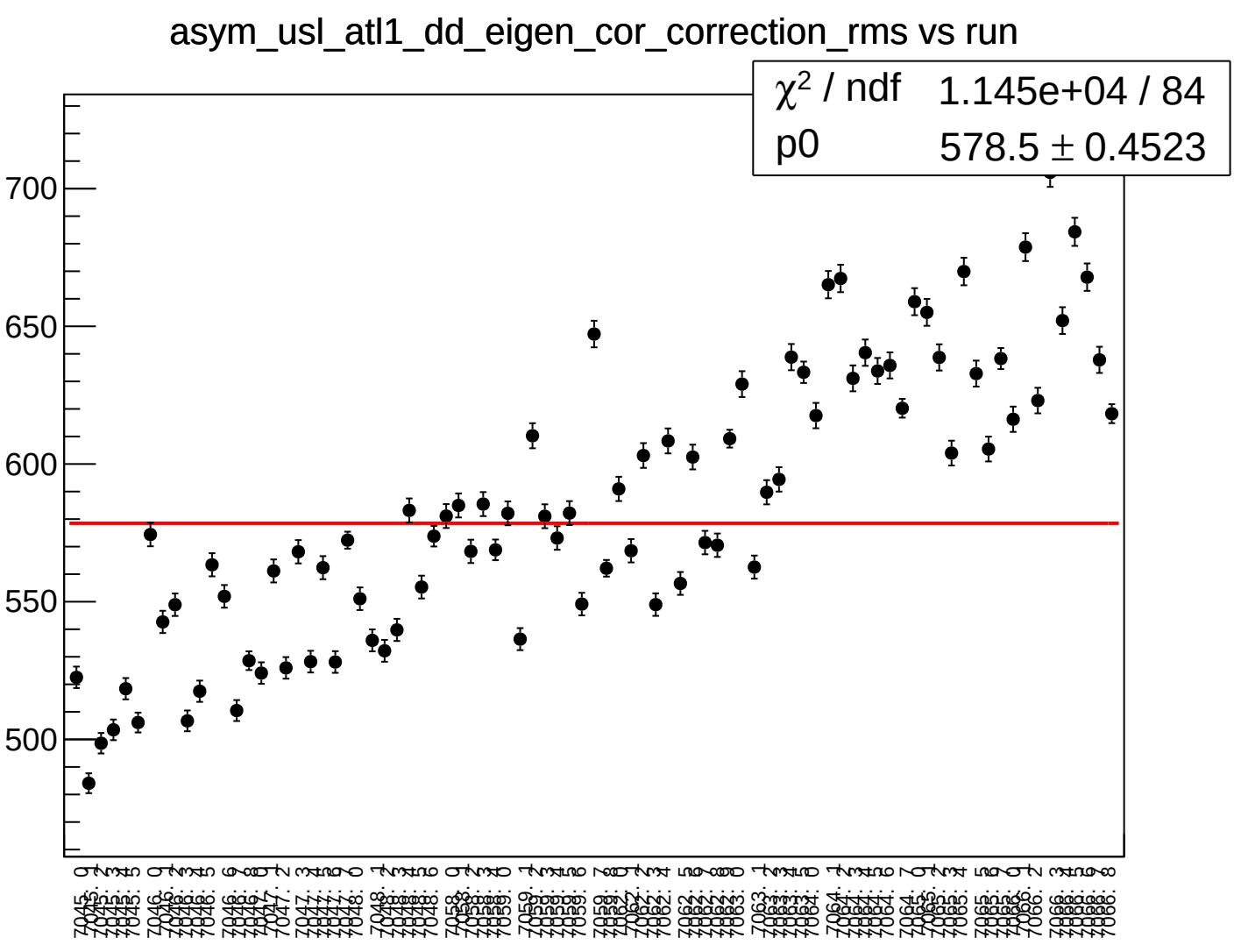

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.4 / 84
p0 1831 ± 1241
pull
Entries 85
Mean −188.4
Std Dev 0

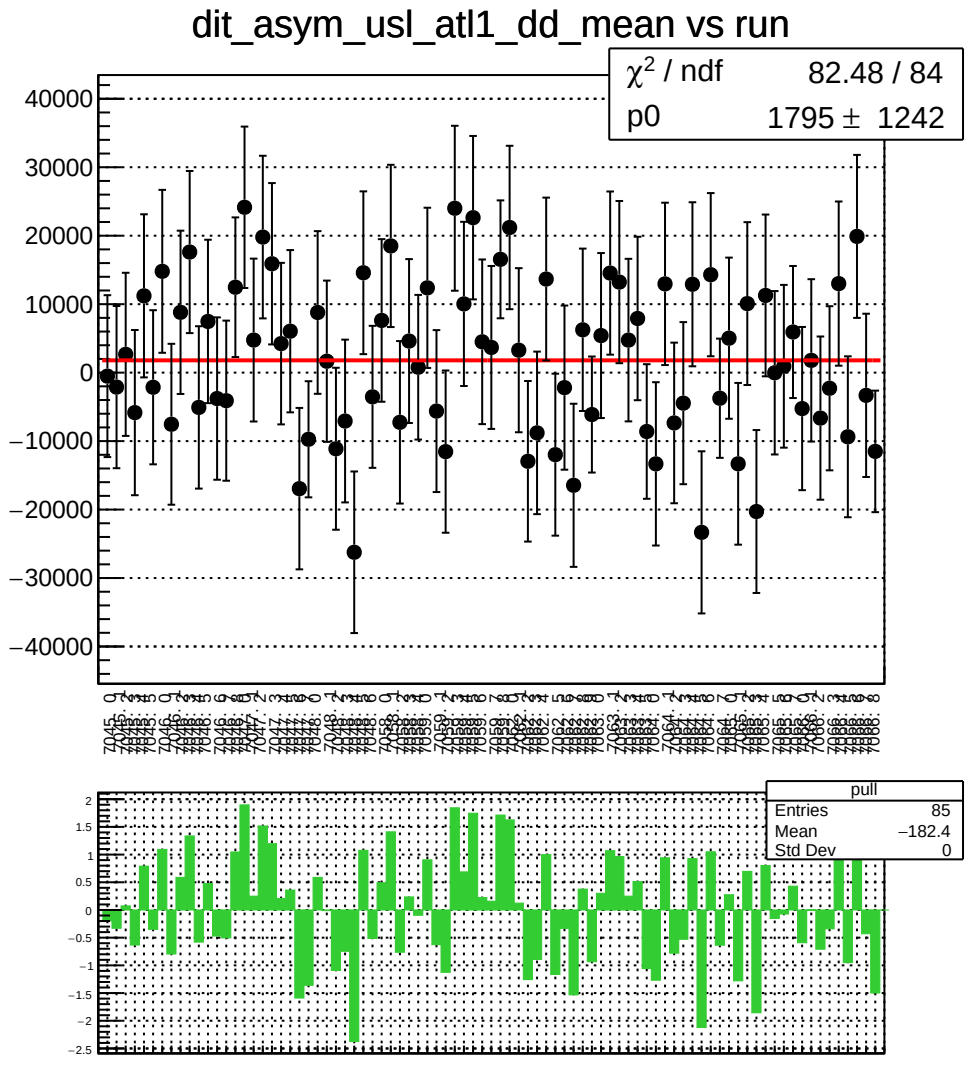

pull1D
Entries 85
Mean 0.01373
Std Dev 0.9905

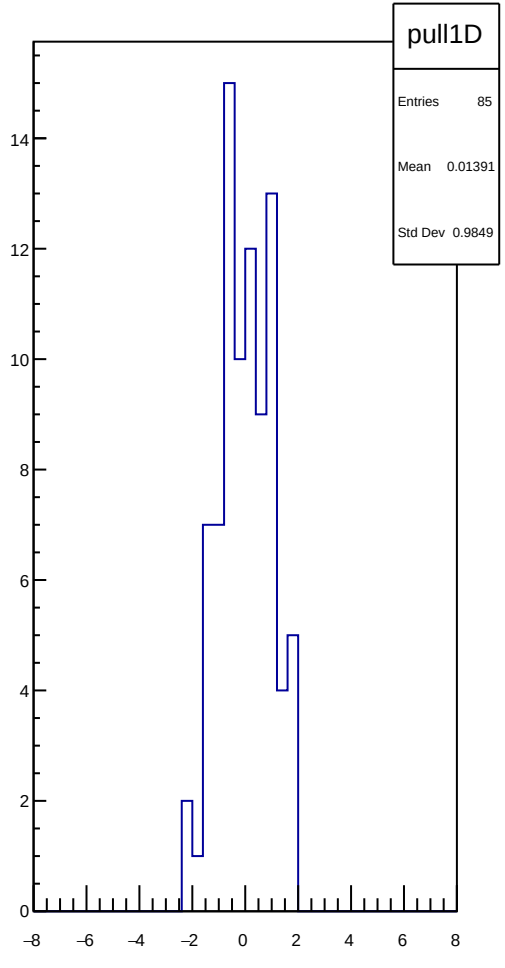

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 69.48 / 84
p0 1126 ± 0.8777
1150
1140
1130
1120
1110
1100

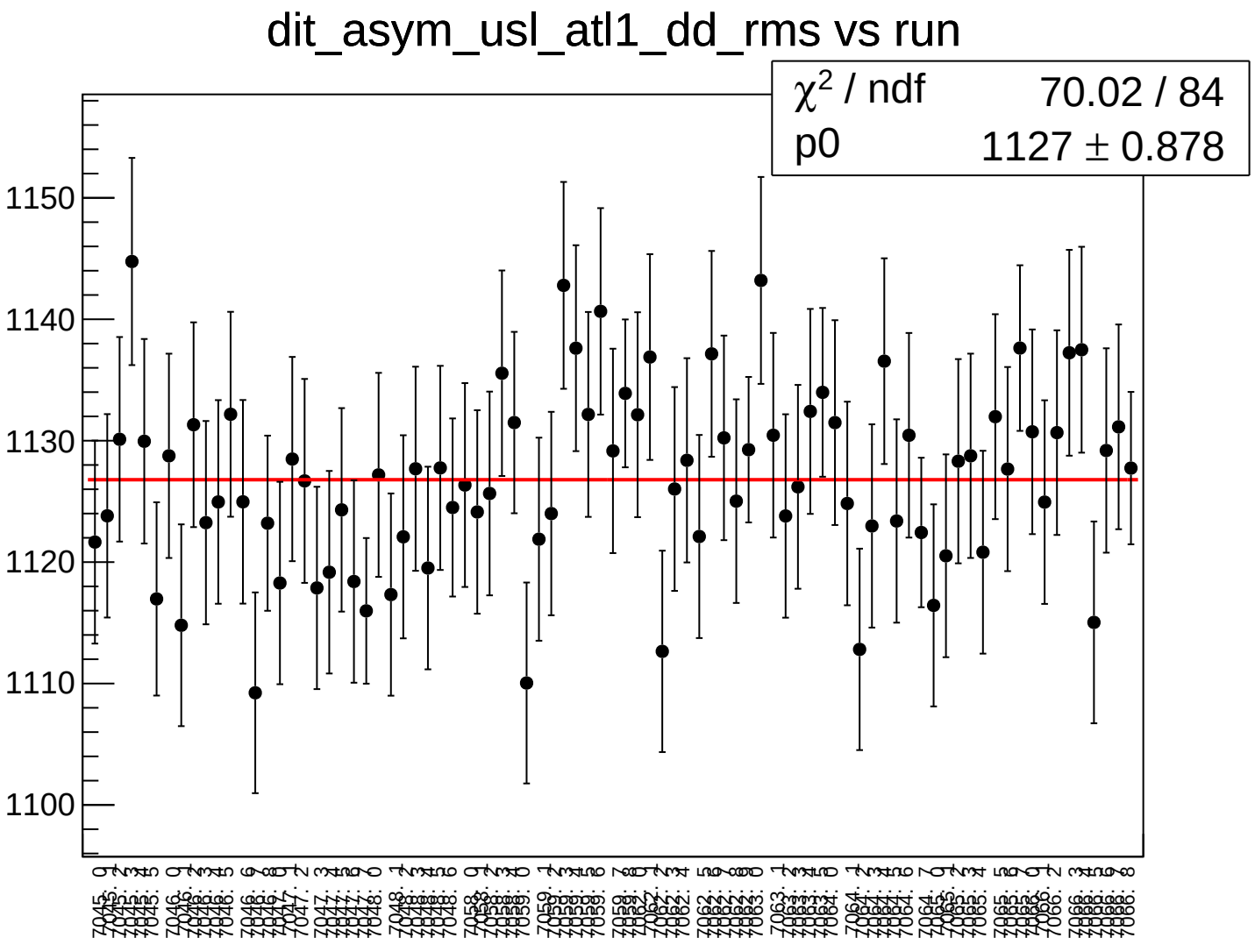

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.92 / 84
p0 −864.4 ± 639.7
pull
Entries 85
Mean 428.3
Std Dev 0

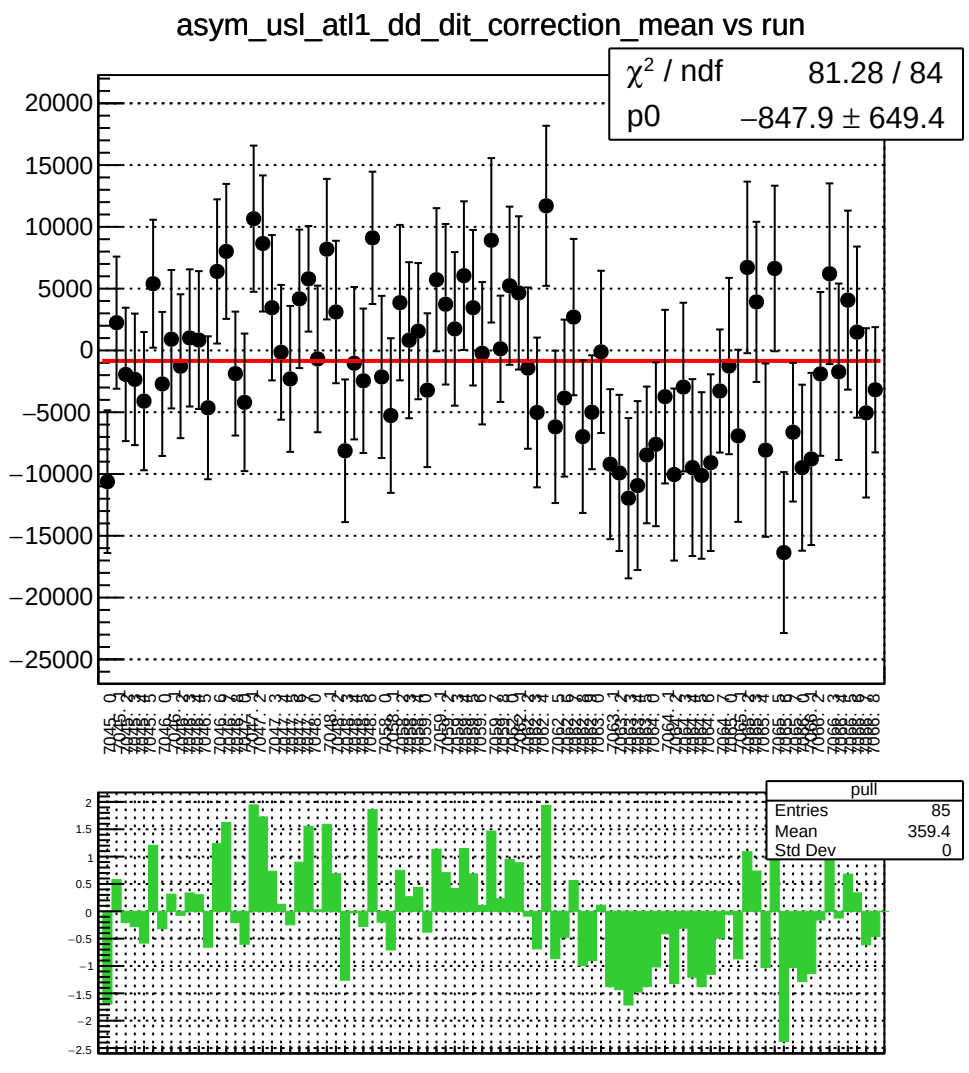

pull1D
Entries 85
Mean −0.02041
Std Dev 0.9755

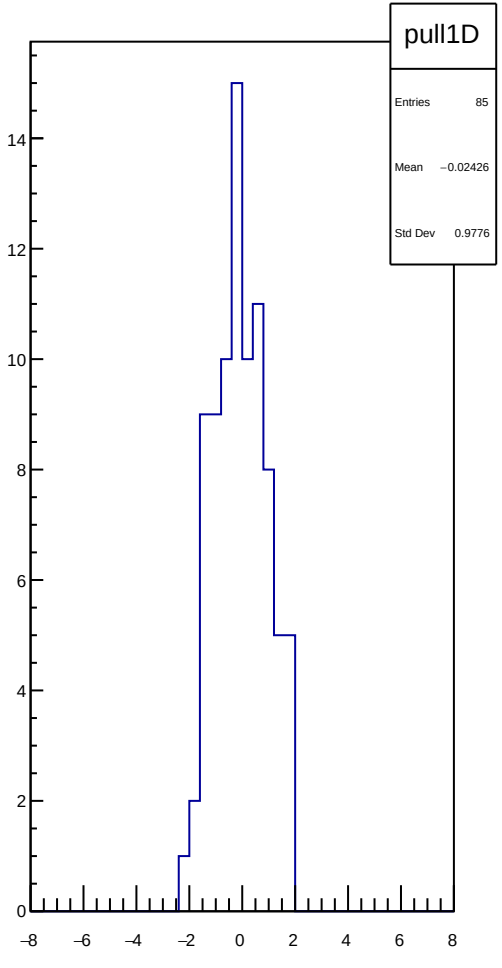

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.145e+04 / 84
p0 578.5 ± 0.4523
700
650
600
550
500

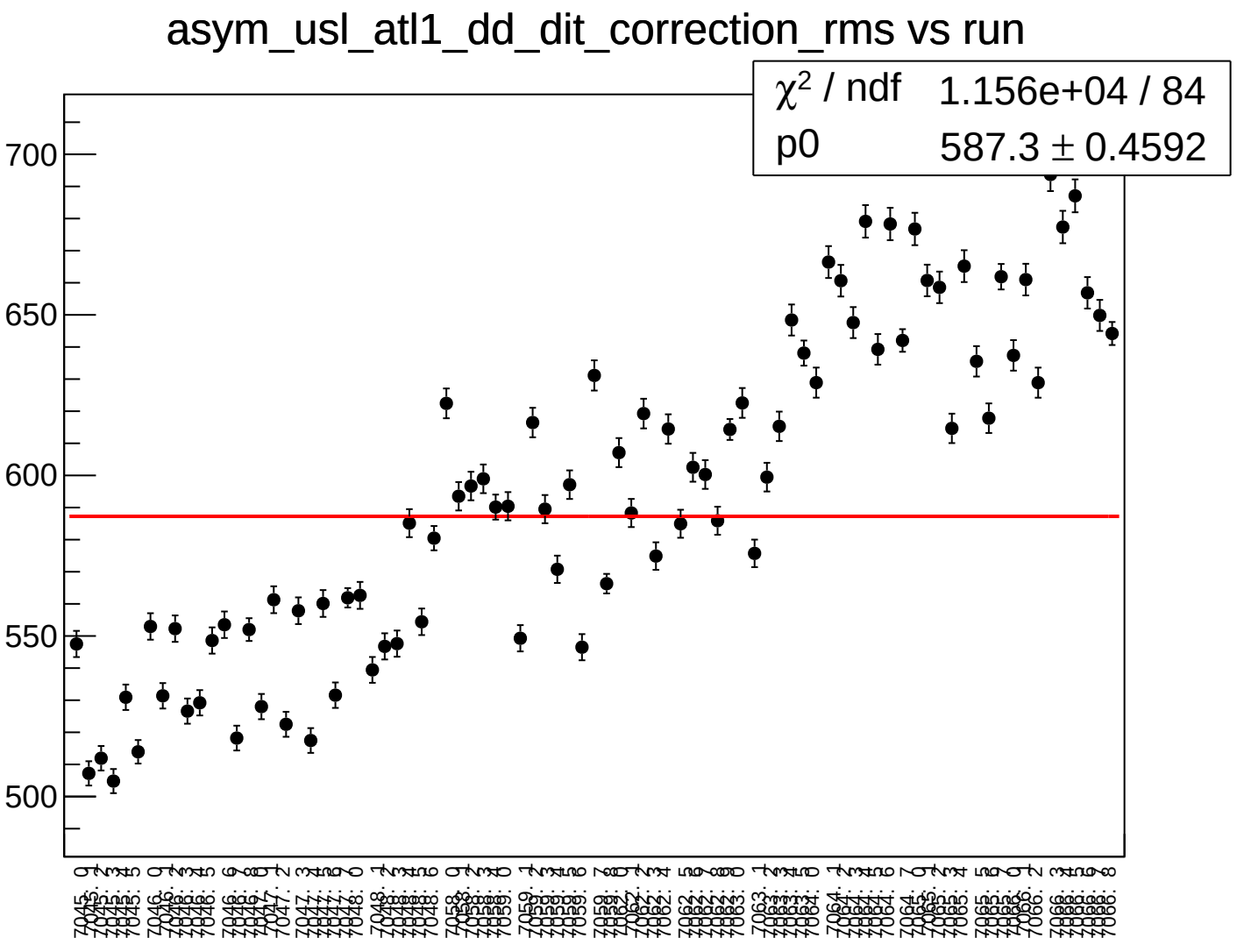

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.48 / 84
p0 1795 ± 1242
pull
Entries 85
Mean −182.4
Std Dev 0

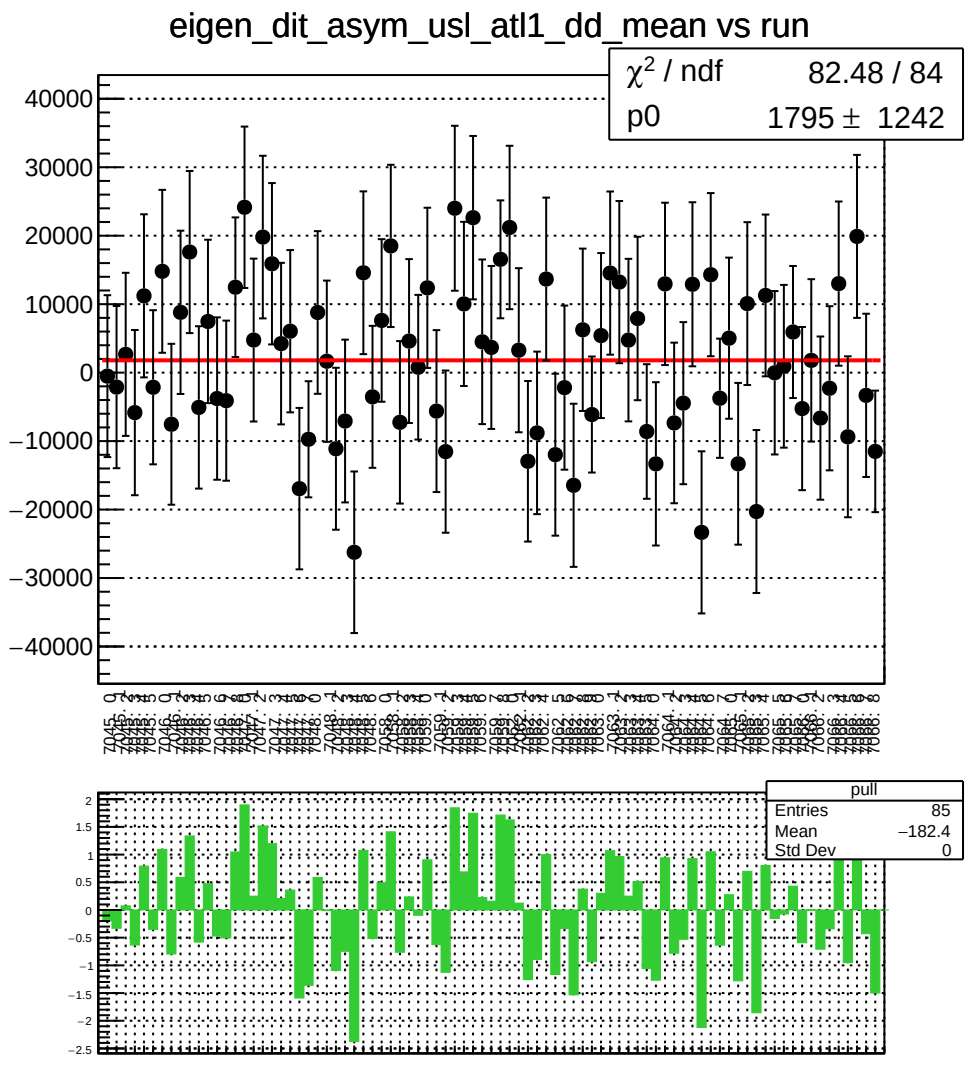

pull1D
Entries 85
Mean 0.01391
Std Dev 0.9849

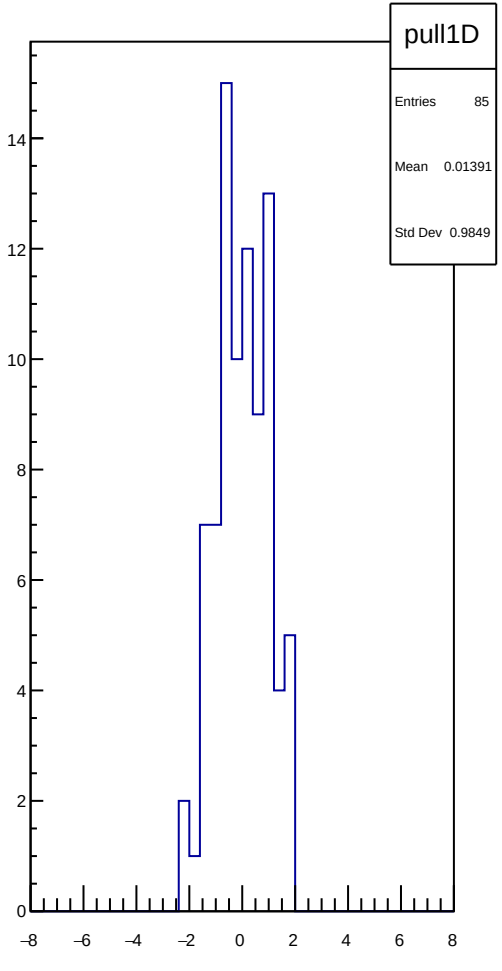

dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 70.02 / 84
p0 1127 ± 0.878
1150
1140
1130
1120
1110
1100

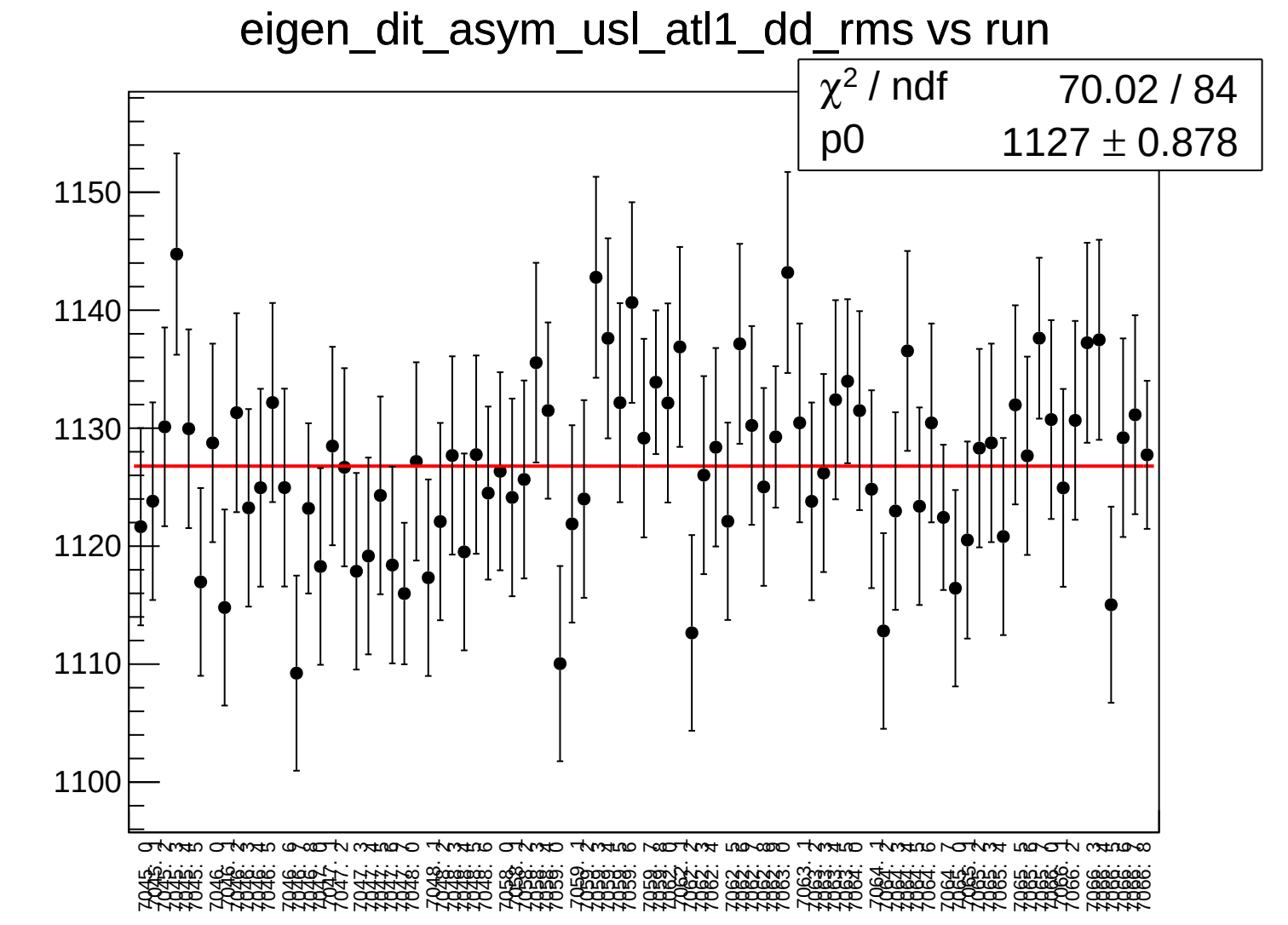

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 81.28 / 84
p0 −847.9 ± 649.4
pull
Entries 85
Mean 359.4
Std Dev 0

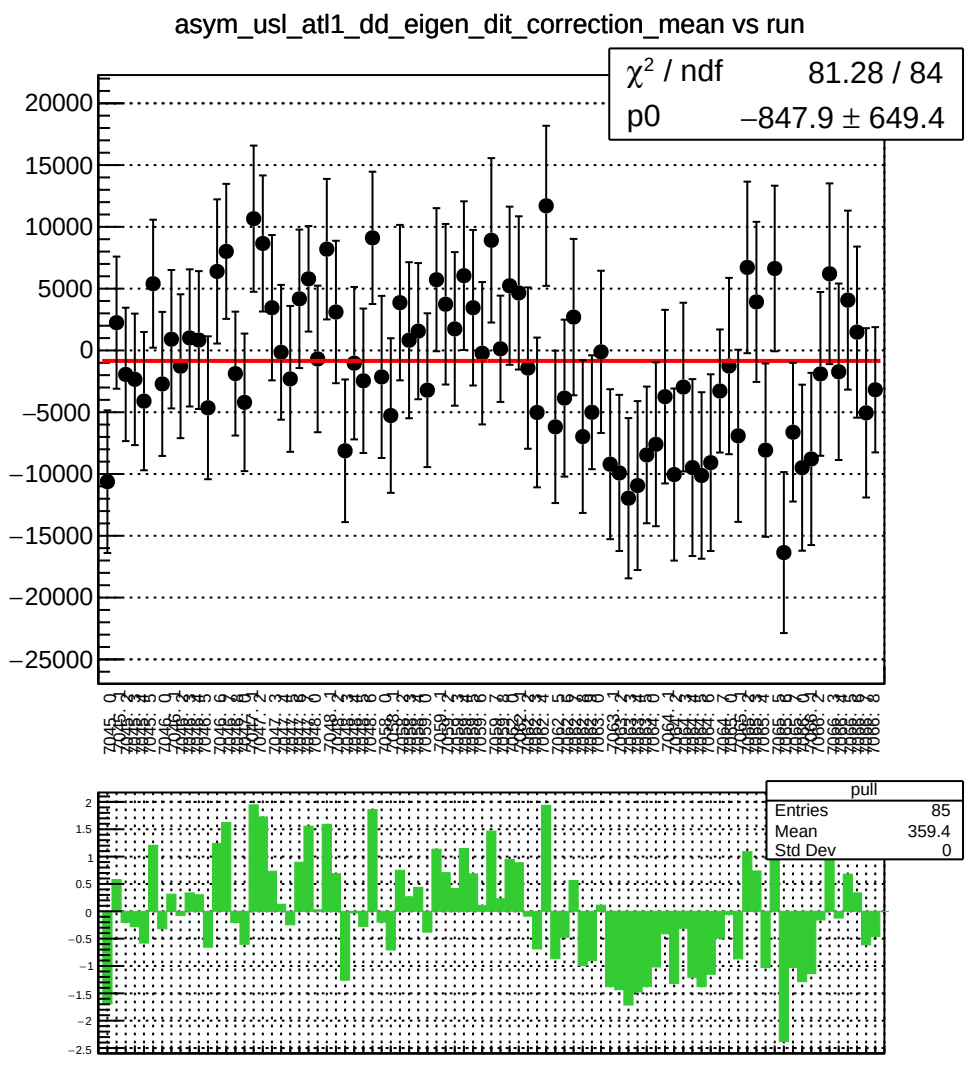

pull1D
Entries 85
Mean −0.02426
Std Dev 0.9776

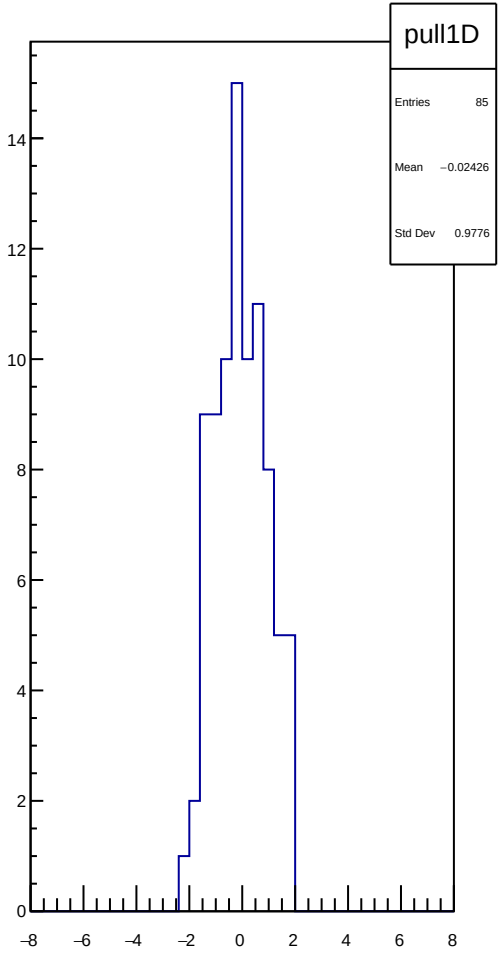

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.156e+04 / 84
p0 587.3 ± 0.4592
700
650
600
550
500

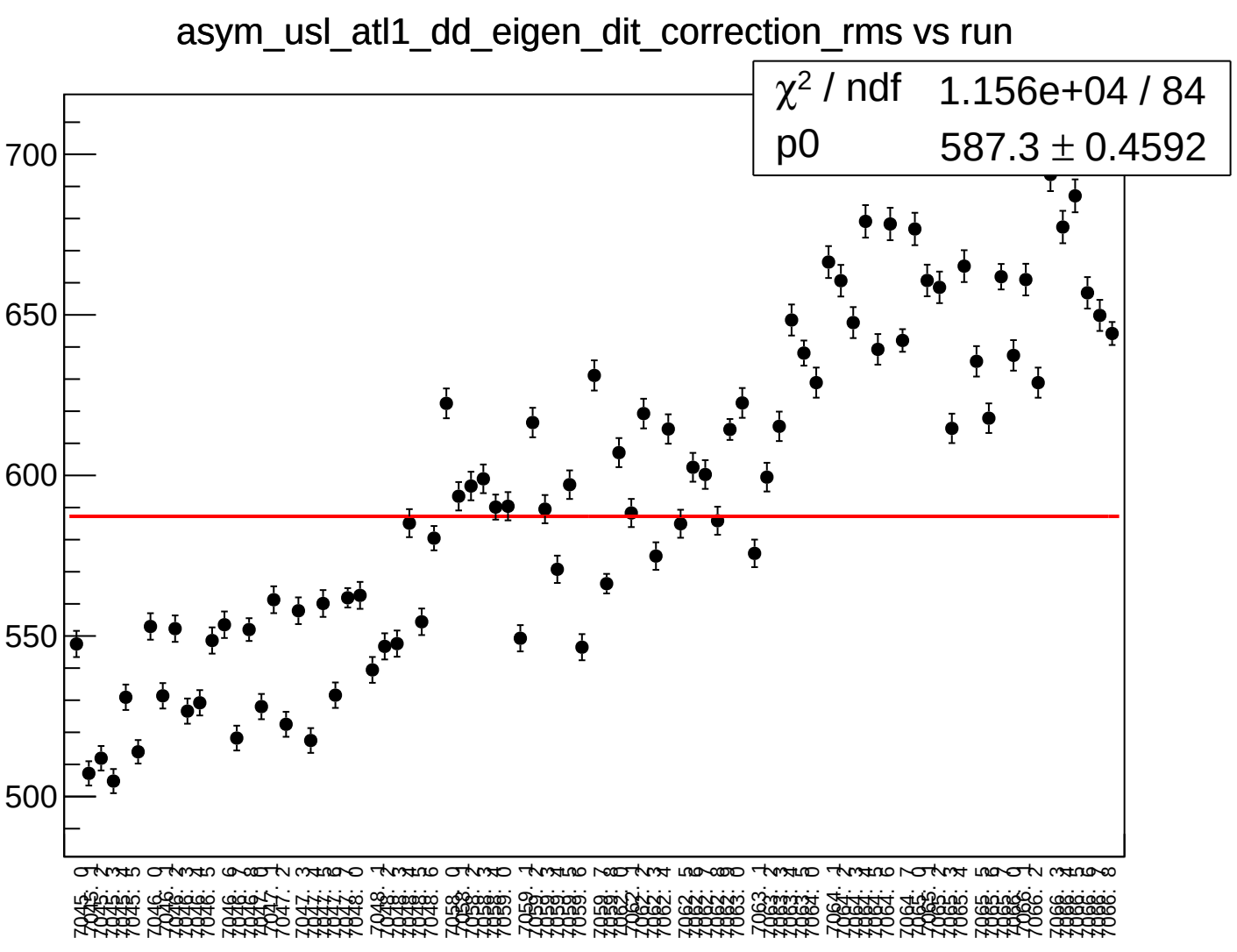

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 82.48 / 84
p0 1795 ± 1242
pull
Entries 85
Mean −182.4
Std Dev 0

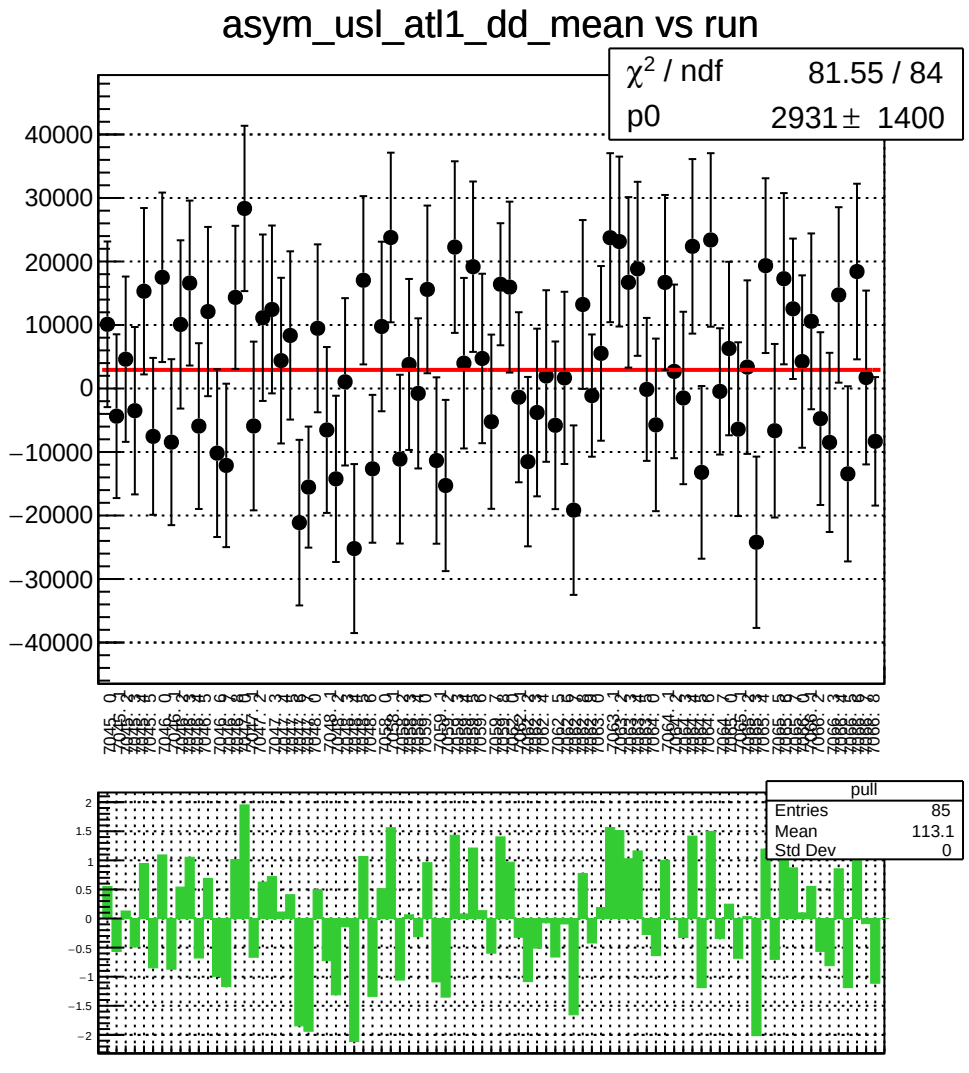

pull1D
Entries 85
Mean 0.01391
Std Dev 0.9849

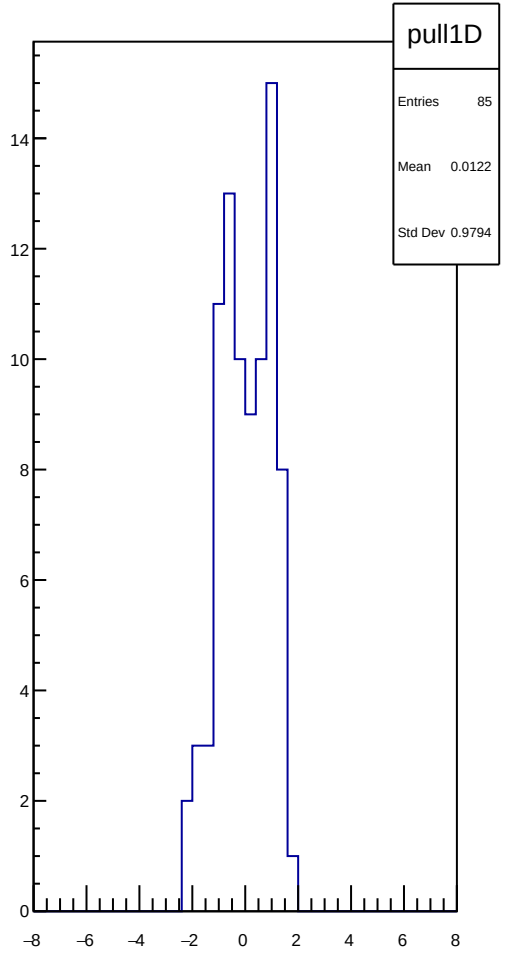

eigen_dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 70.02 / 84
p0 1127 ± 0.878
1150
1140
1130
1120
1110
1100

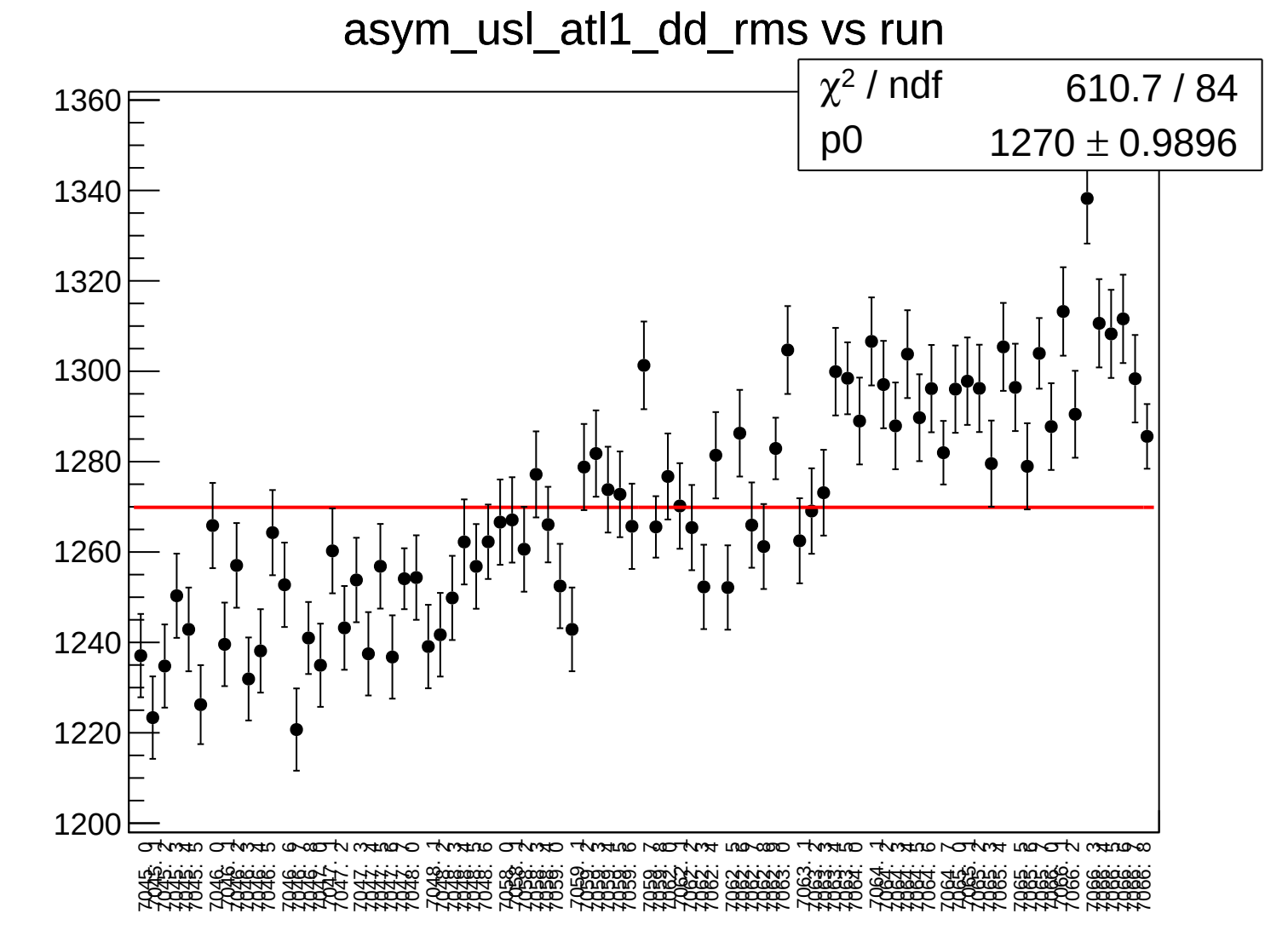

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.28 / 84
p0 −847.9 ± 649.4
pull
Entries 85
Mean 359.4
Std Dev 0

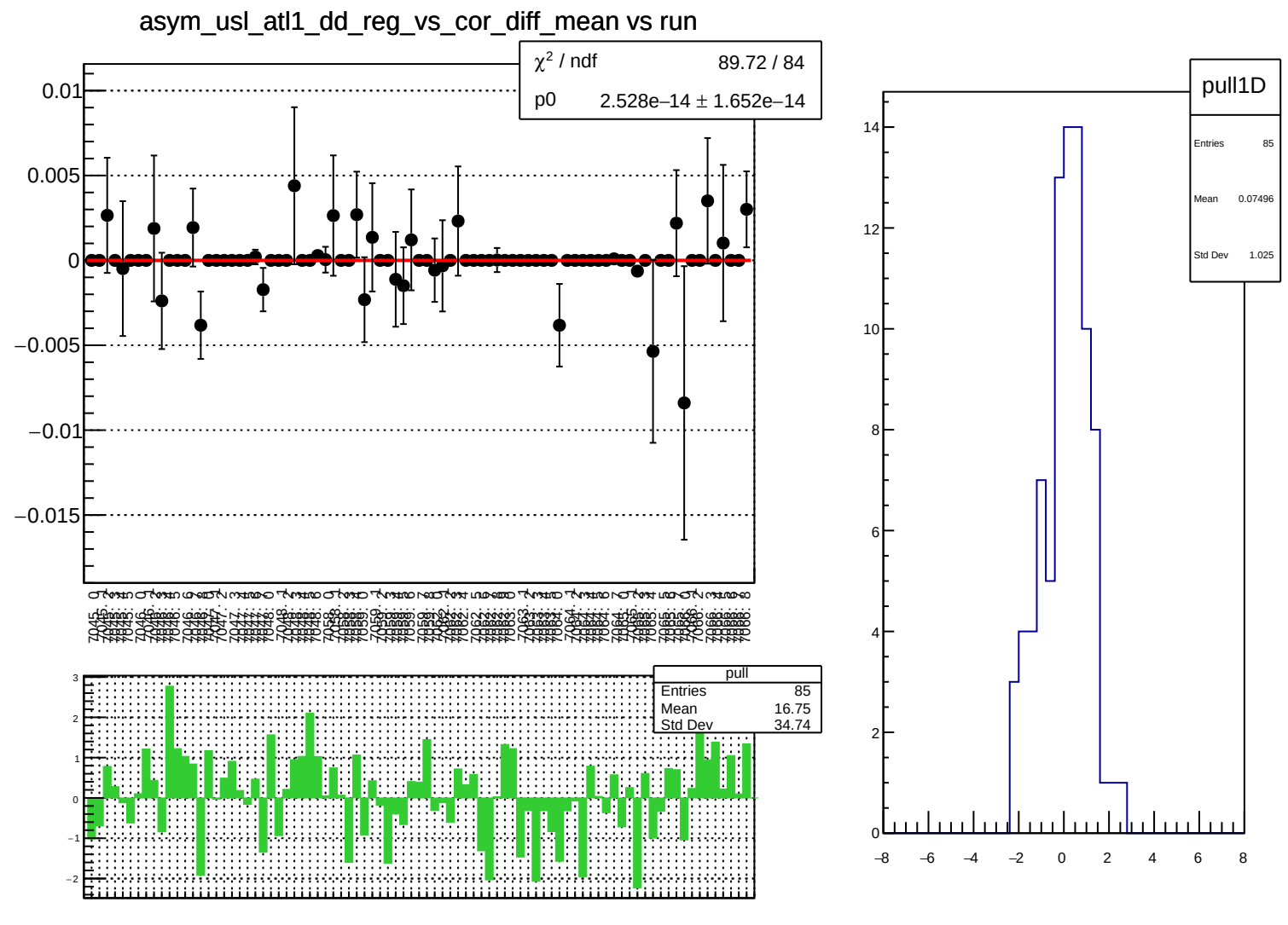

pull1D
Entries 85
Mean −0.02426
Std Dev 0.9776

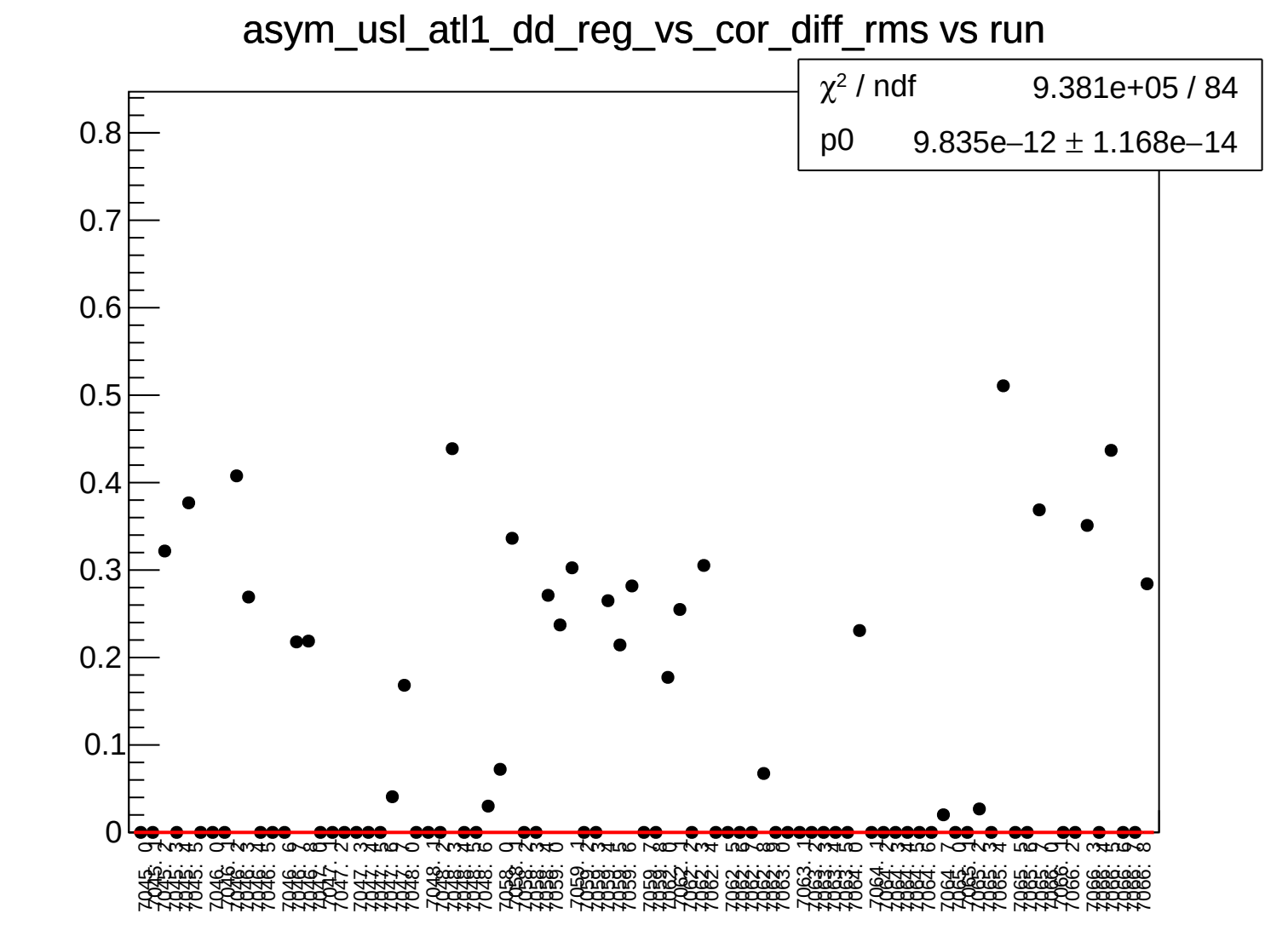

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.156e+04 / 84
p0 587.3 ± 0.4592
700
650
600
550
500

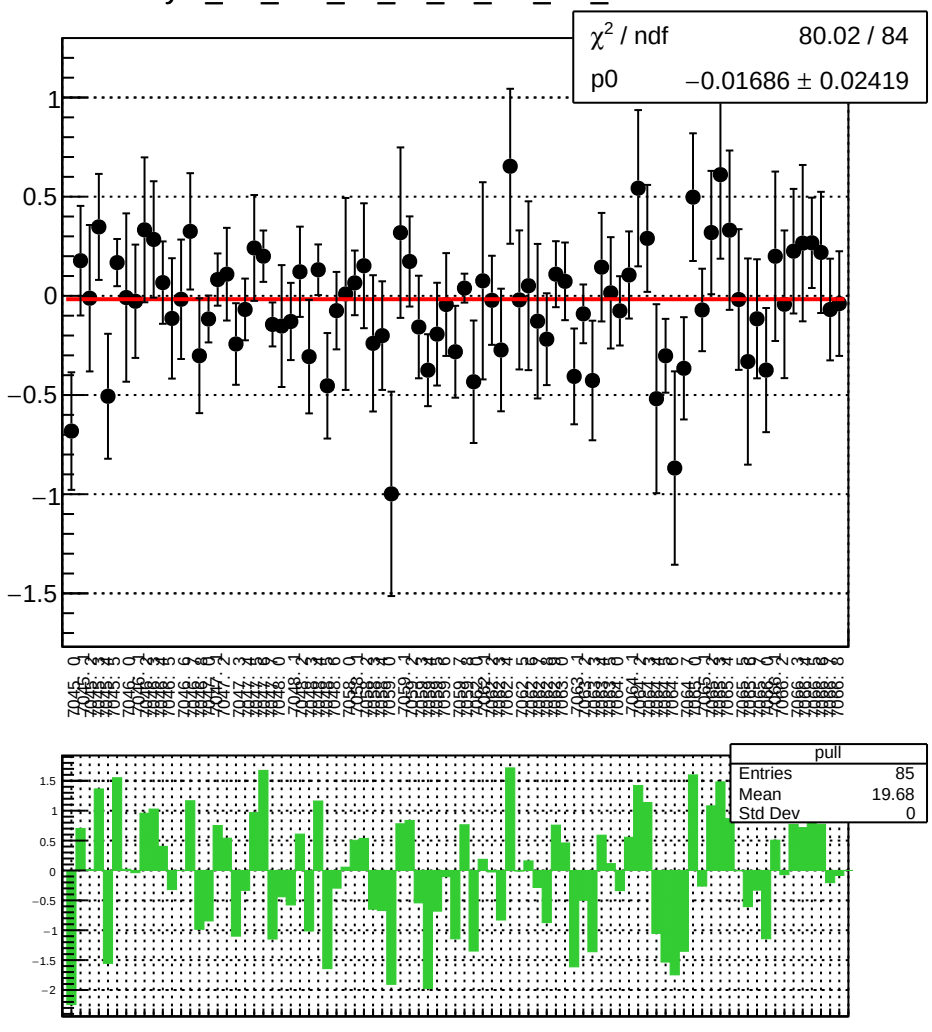

asym_usl_atl1_dd_mean vs run
χ² / ndf 81.55 / 84
p0 2931 ± 1400
pull
Entries 85
Mean 113.1
Std Dev 0

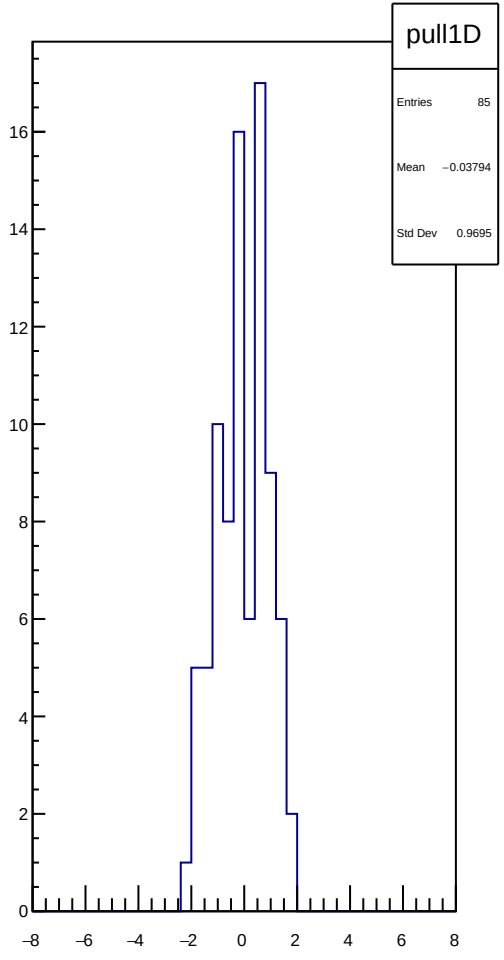

pull1D
Entries 85
Mean 0.0122
Std Dev 0.9794

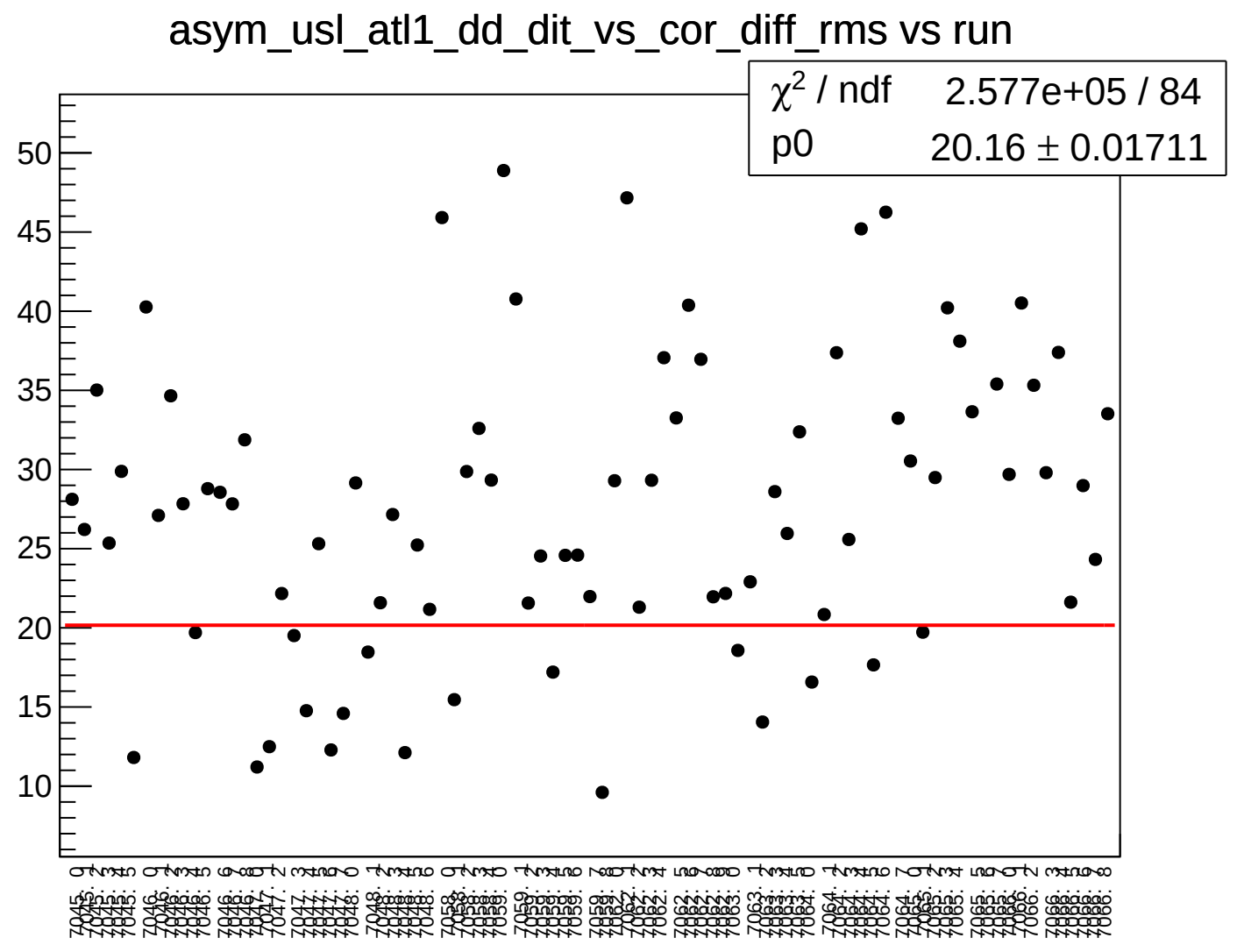

asym_usl_atl1_dd_rms vs run
χ² / ndf 610.7 / 84
p0 1270 ± 0.9896
1360
1340
1320
1300
1280
1260
1240
1220
1200

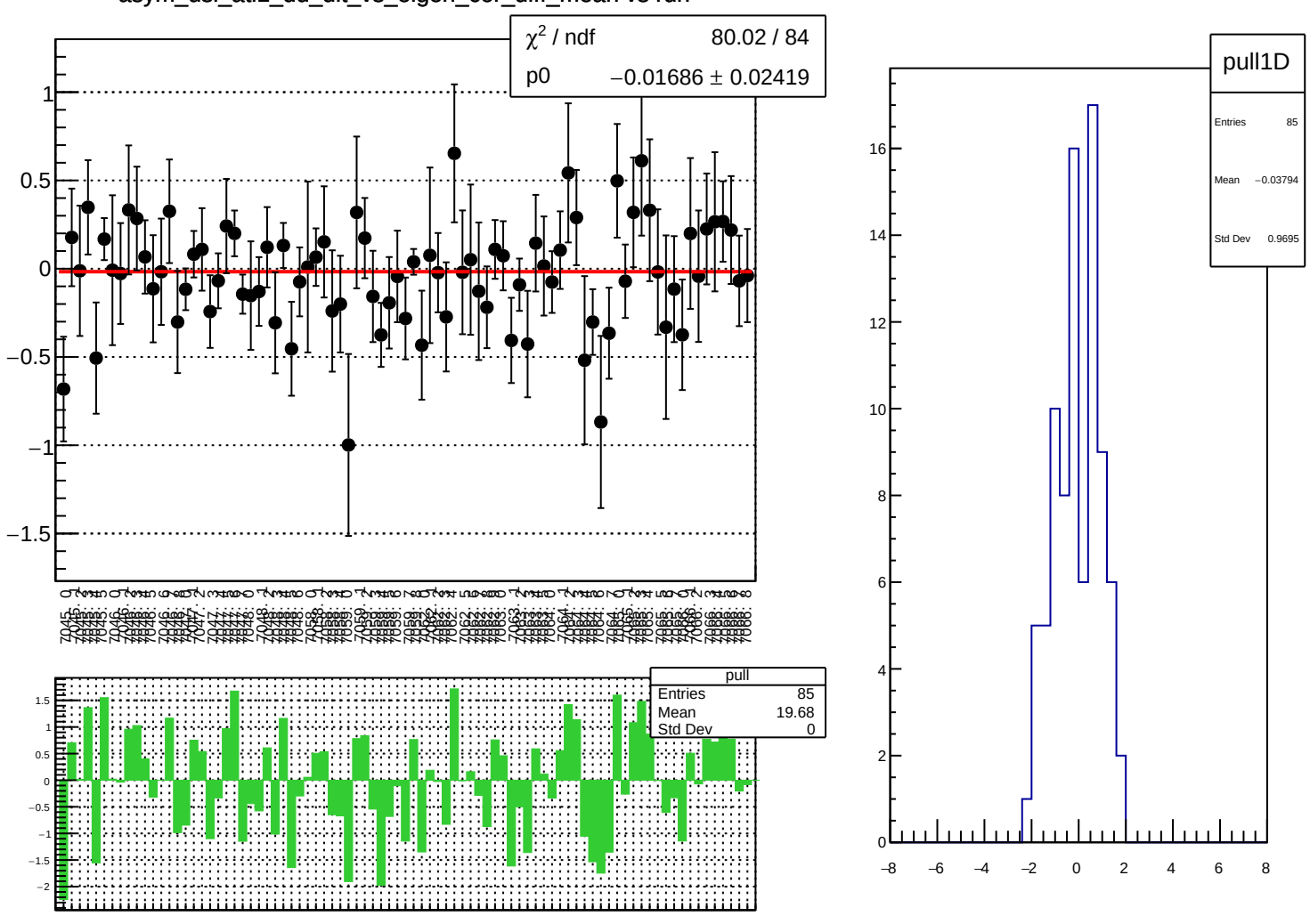

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.72 / 84
p0 2.528e−14 ± 1.652e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean 16.75
Std Dev 34.74
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.07496
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

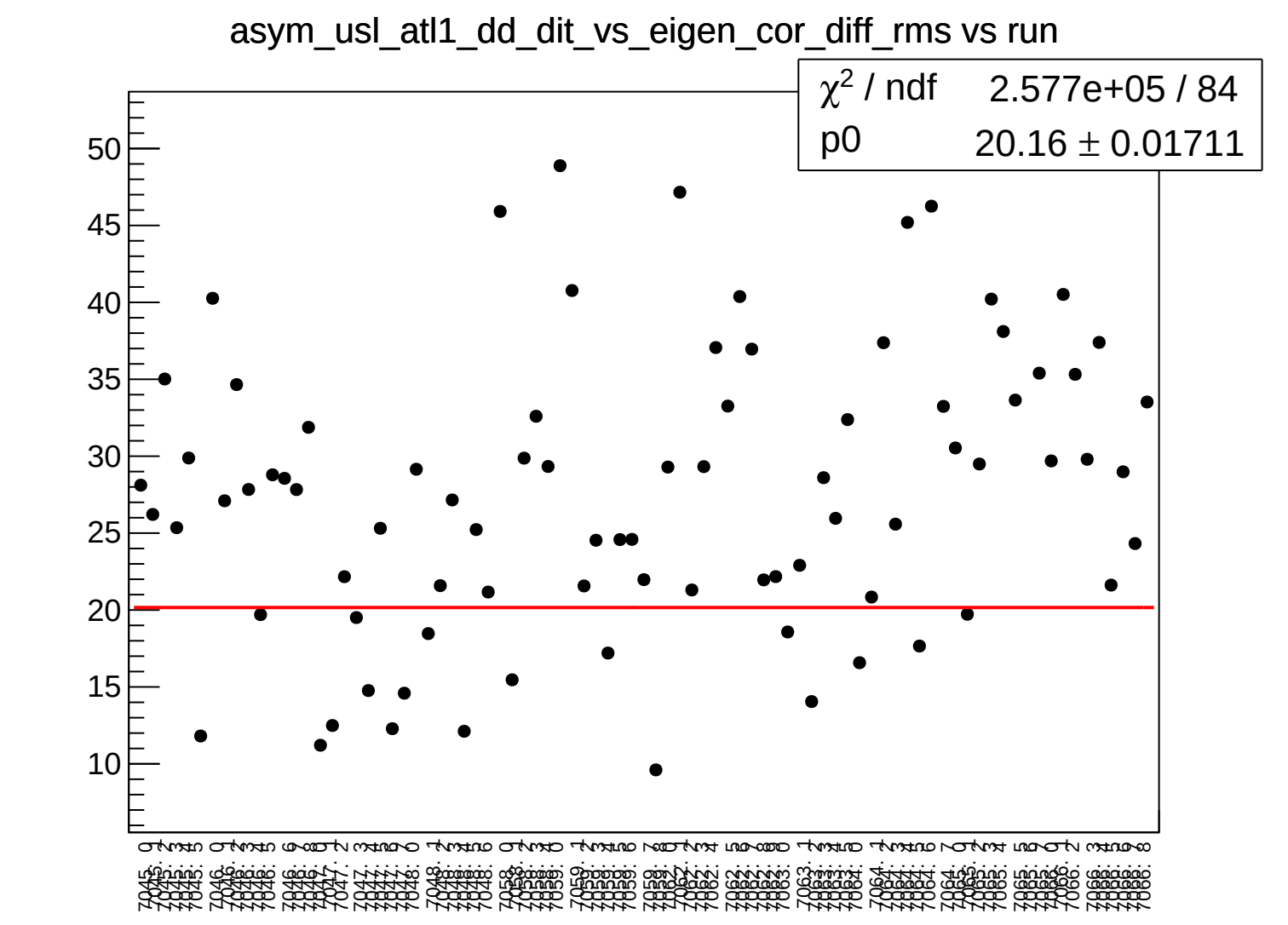

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.381e+05 / 84
p0 9.835e−12 ± 1.168e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

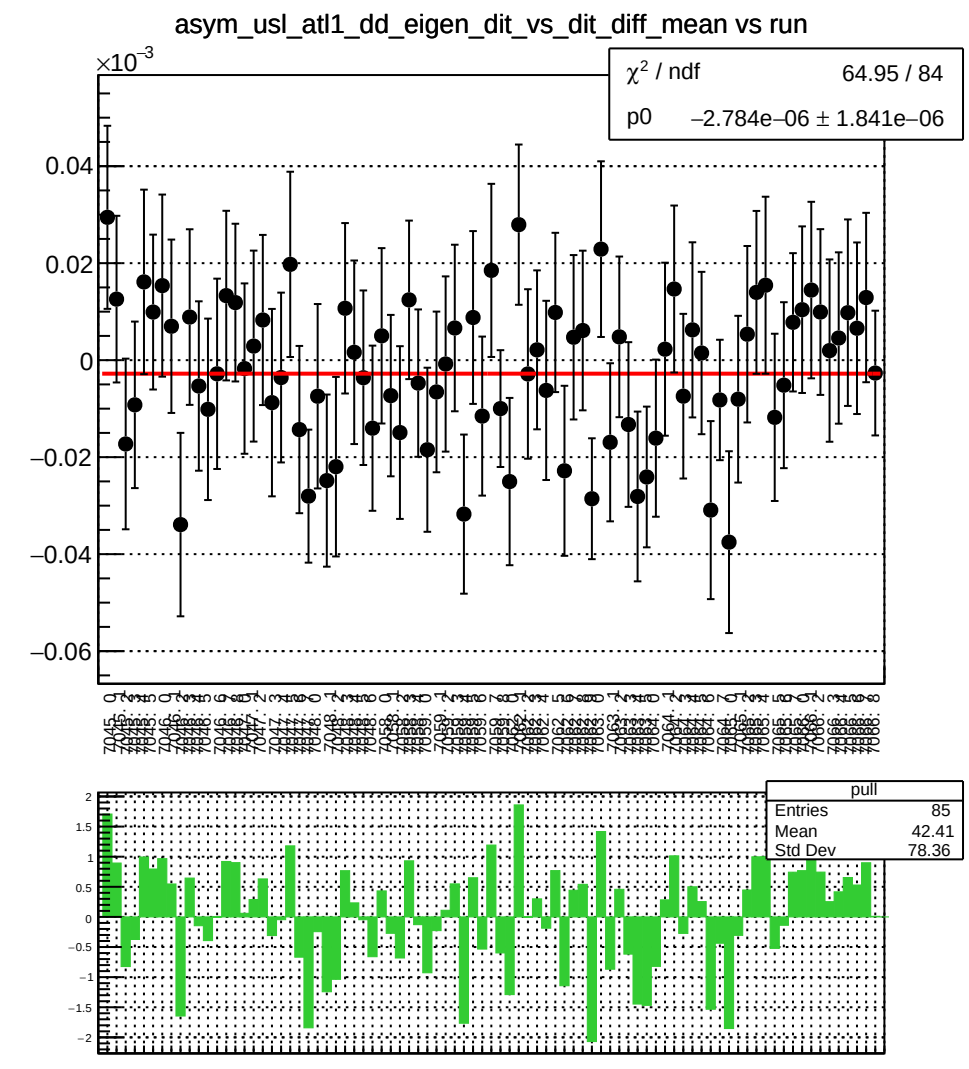

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.02 / 84
p0 −0.01686 ± 0.02419
pull
Entries 85
Mean 19.68
Std Dev 0

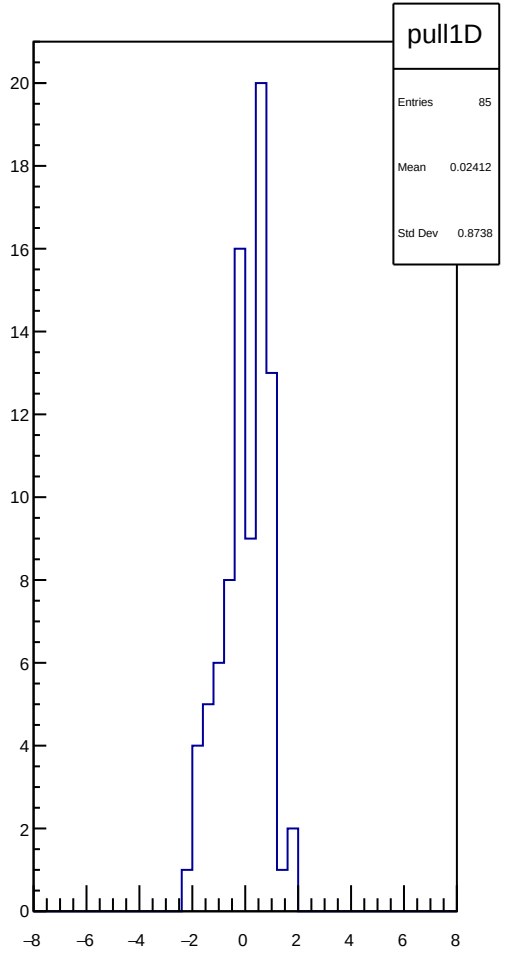

pull1D
Entries 85
Mean −0.03794
Std Dev 0.9695

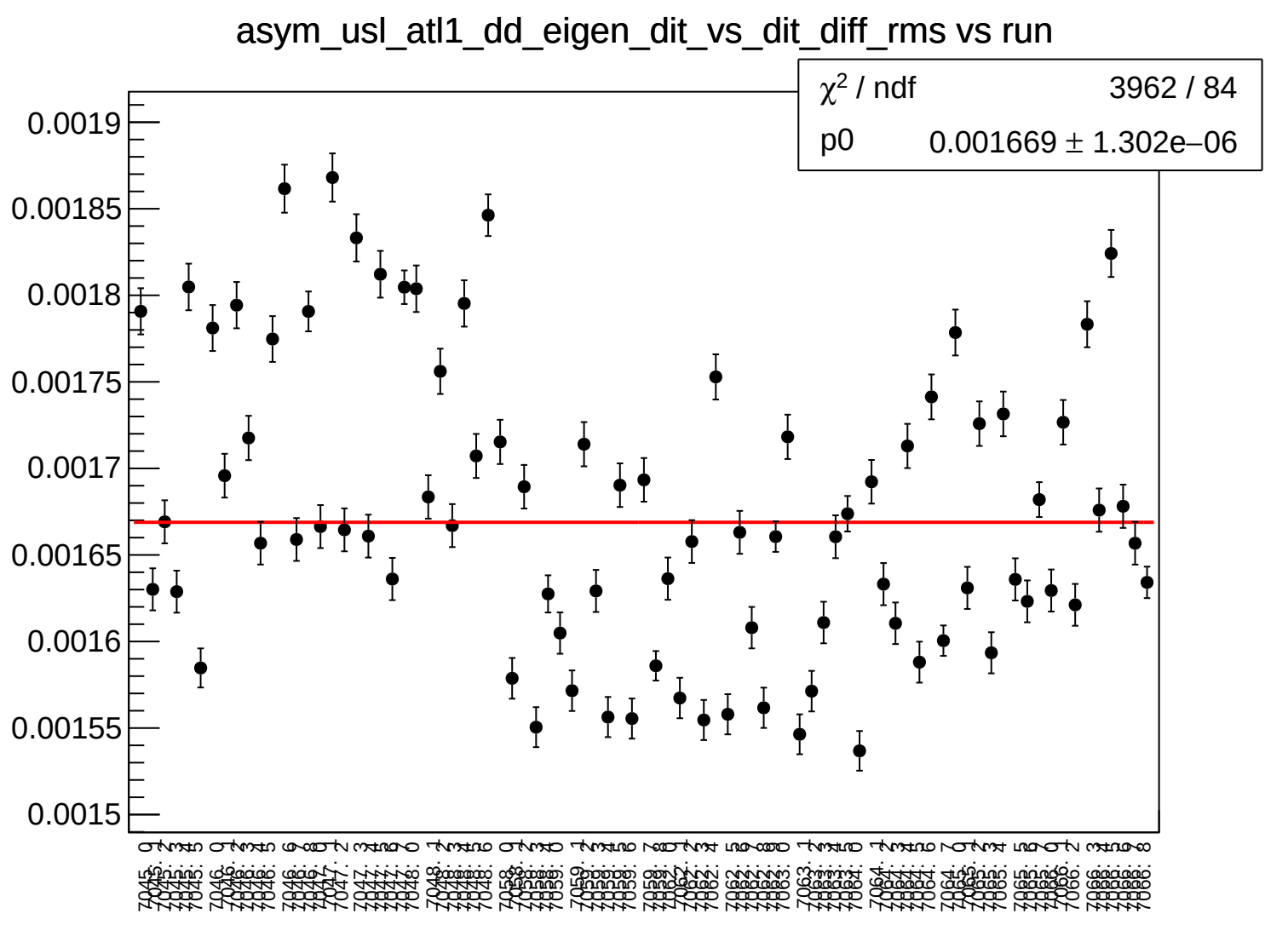

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 84
p0 20.16 ± 0.01711
50
45
40
35
30
25
20
15
10

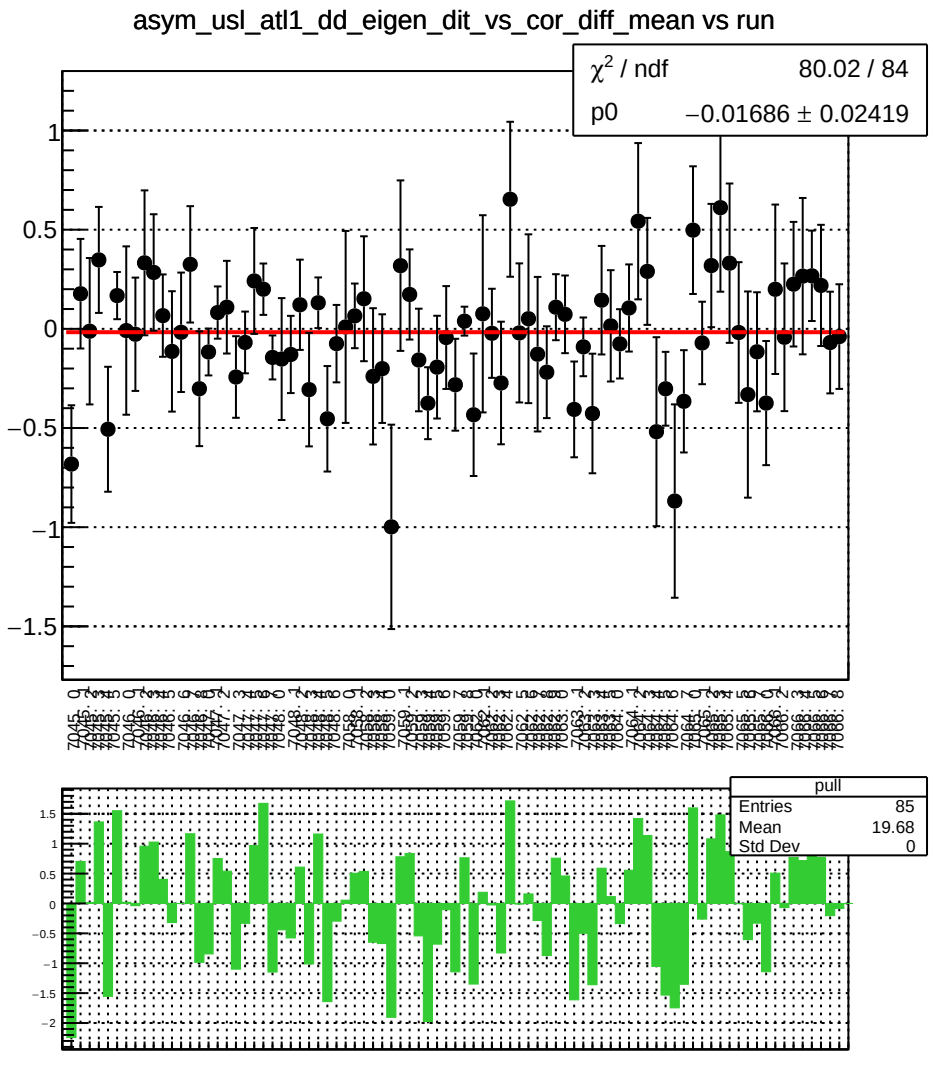

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.02 / 84
p0 −0.01686 ± 0.02419
pull
Entries 85
Mean 19.68
Std Dev 0
pull1D
Entries 85
Mean −0.03794
Std Dev 0.9695

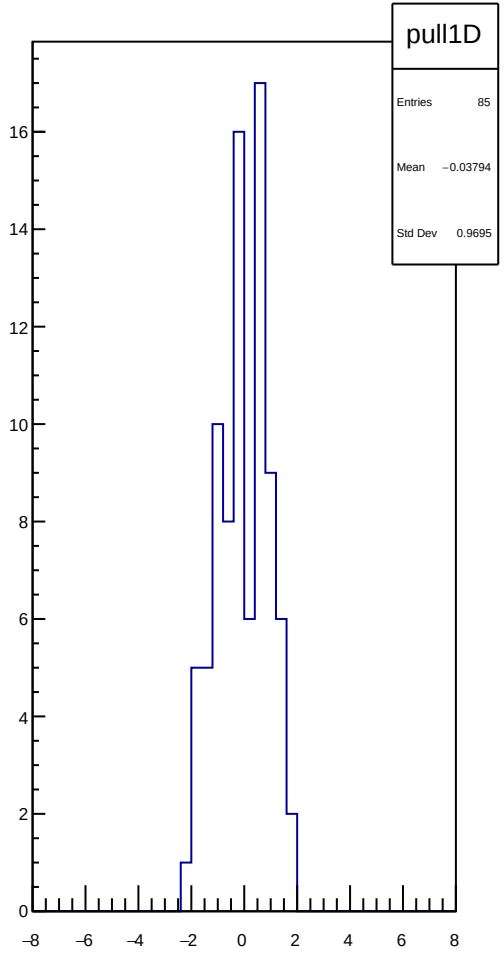

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 84
p0 20.16 ± 0.01711
50
45
40
35
30
25
20
15
10

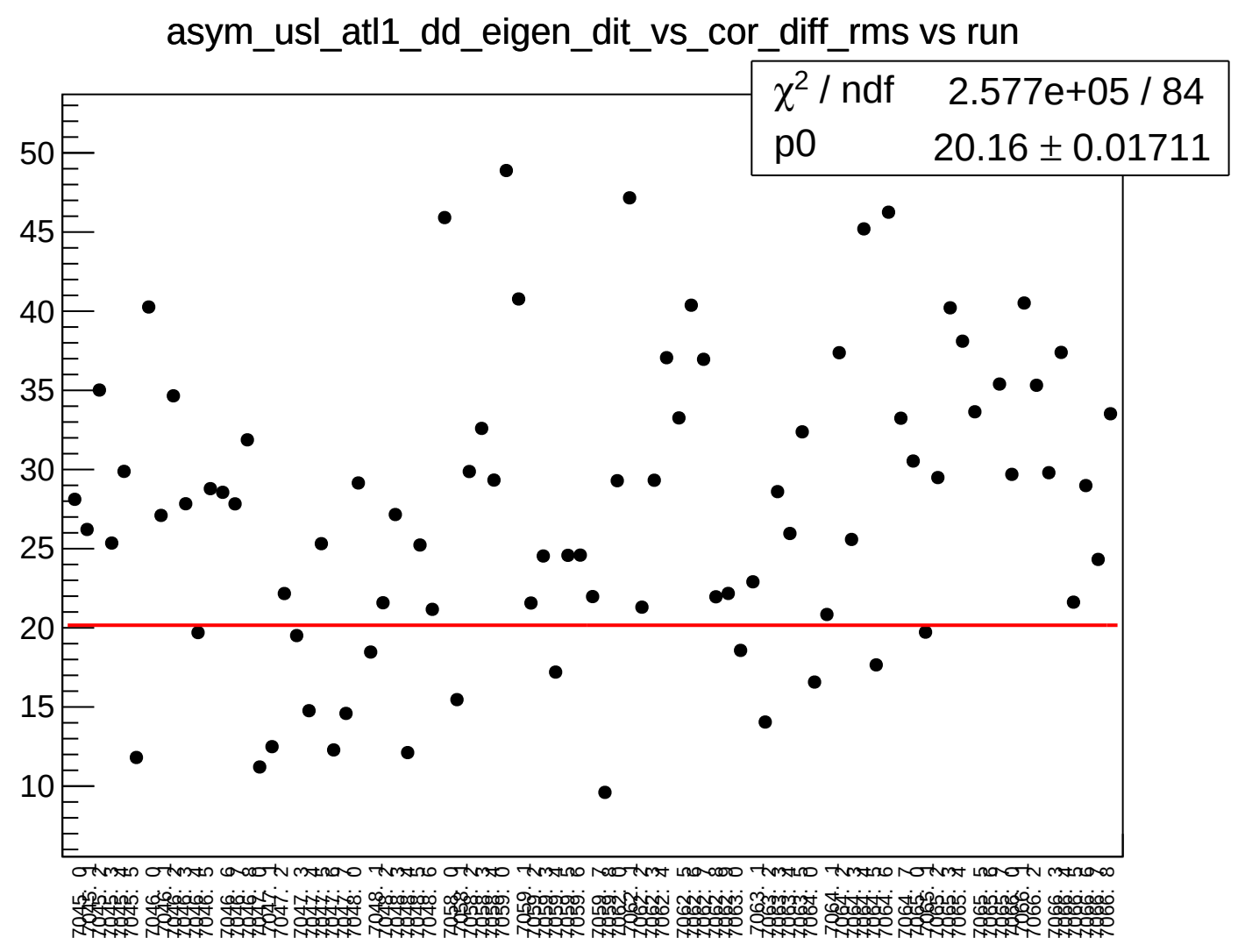

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.95 / 84
p0 −2.784e−06 ± 1.841e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 42.41
Std Dev 78.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

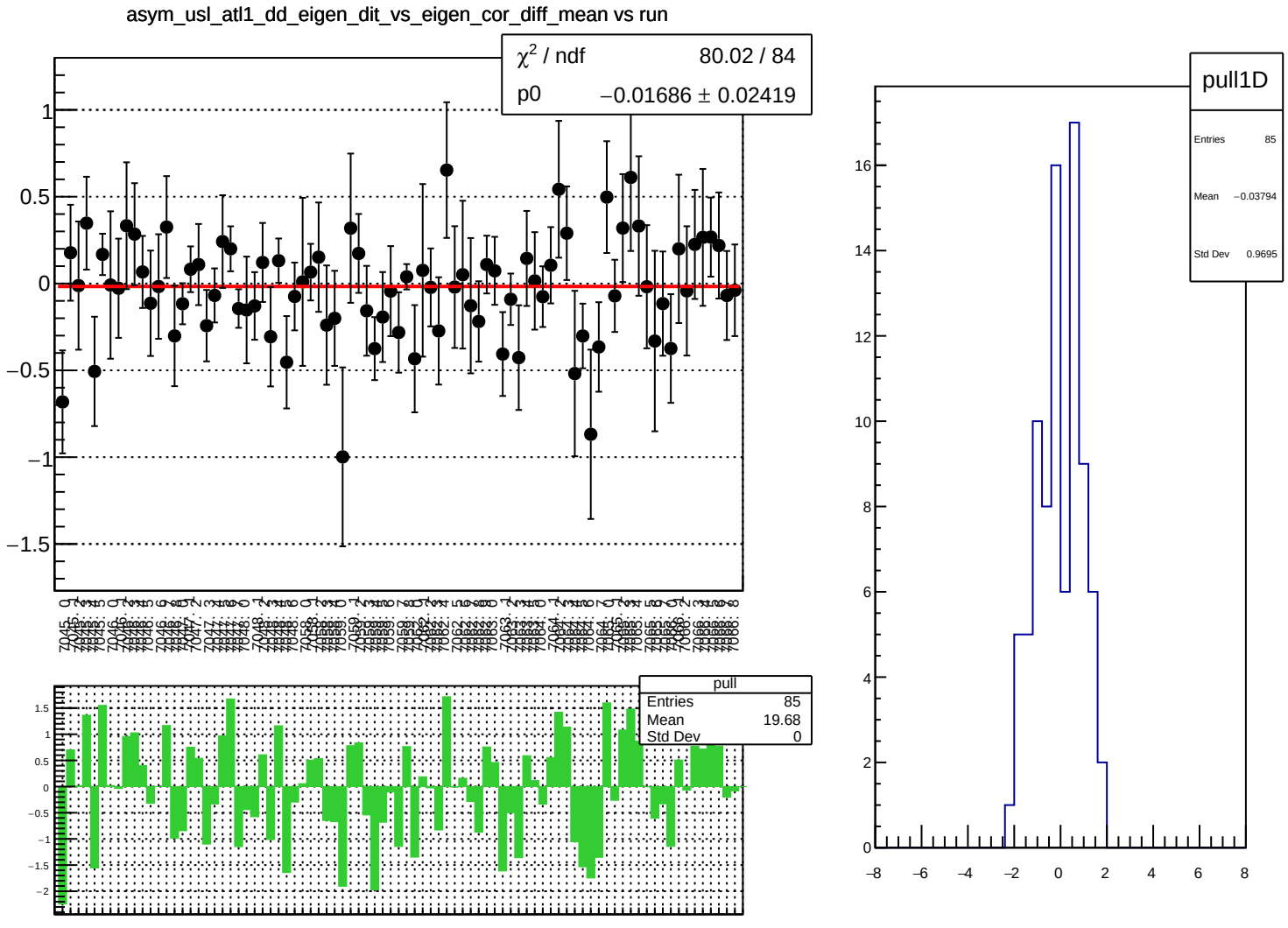

pull1D
Entries 85
Mean 0.02412
Std Dev 0.8738
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

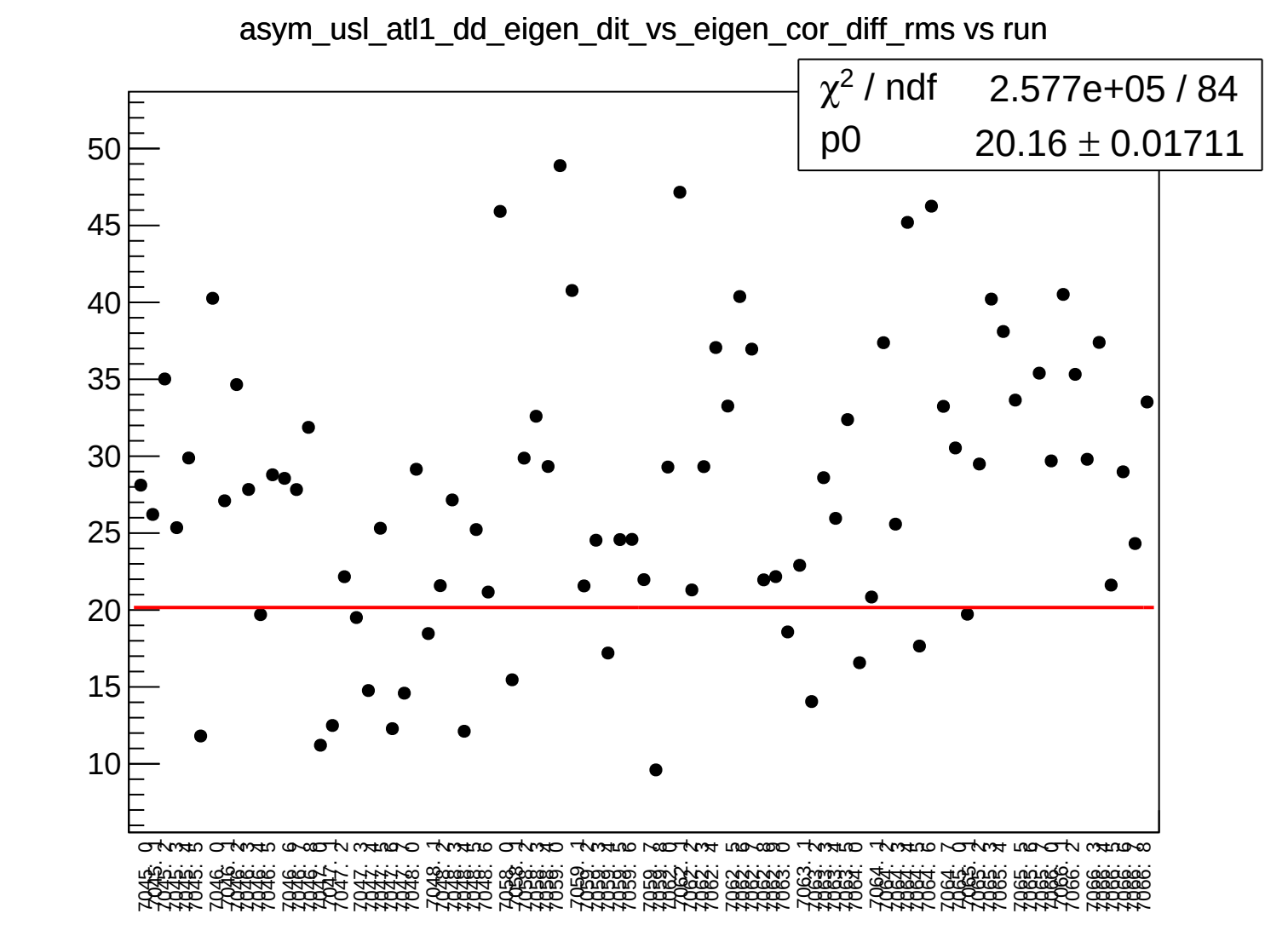

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3962 / 84
p0 0.001669 ± 1.302e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

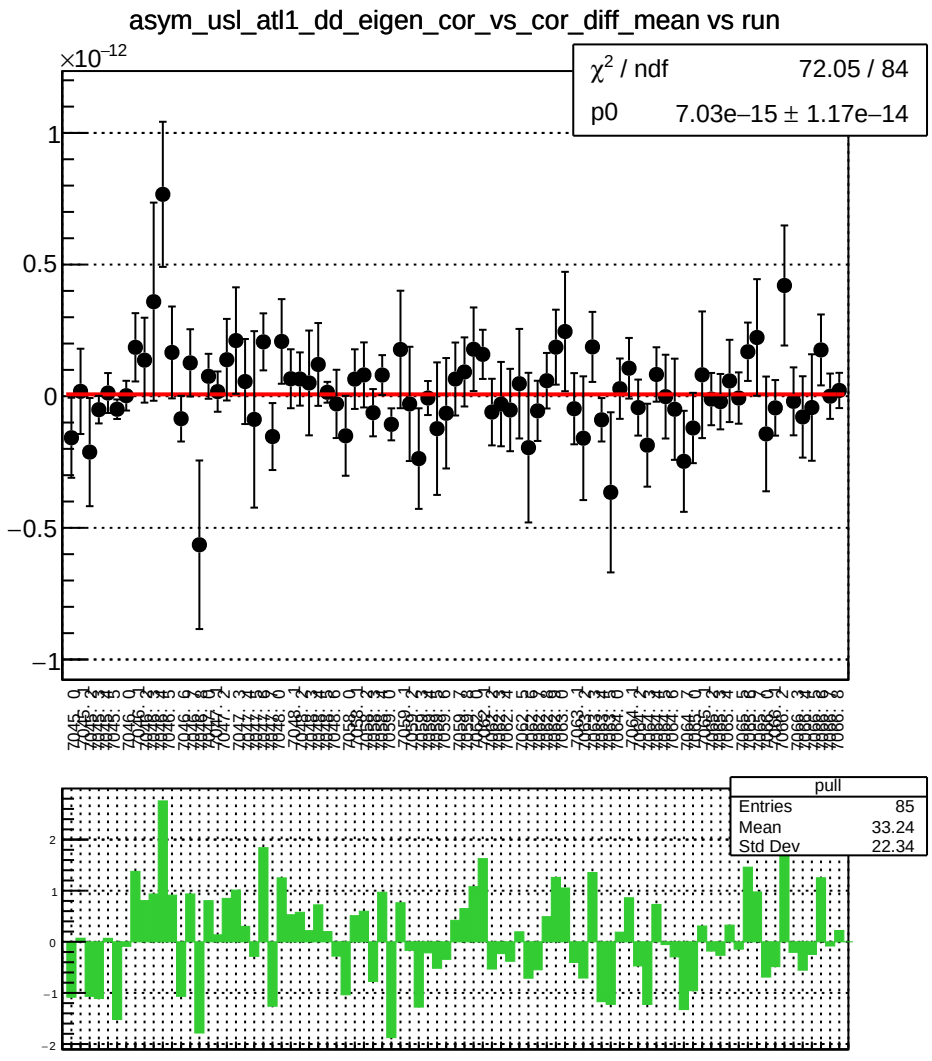

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.02 / 84
p0 −0.01686 ± 0.02419
pull
Entries 85
Mean 19.68
Std Dev 0

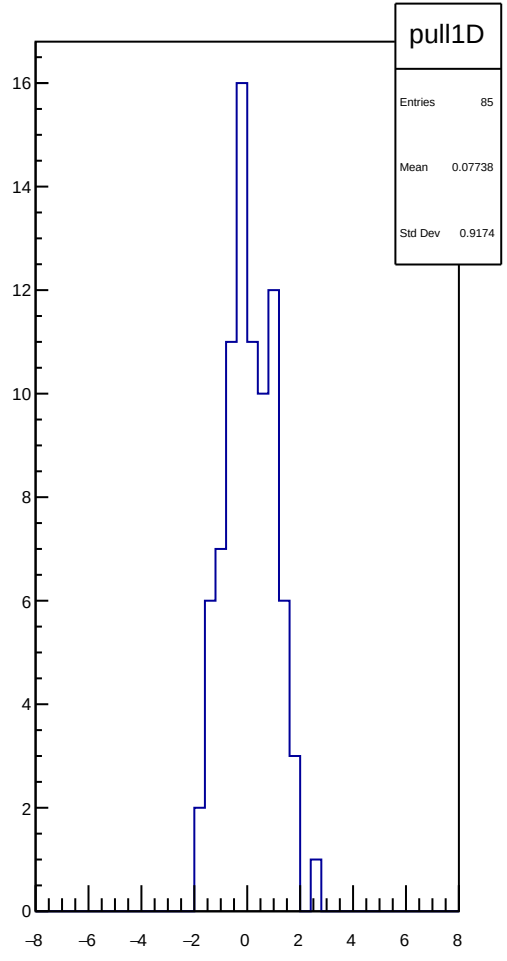

pull1D
Entries 85
Mean −0.03794
Std Dev 0.9695

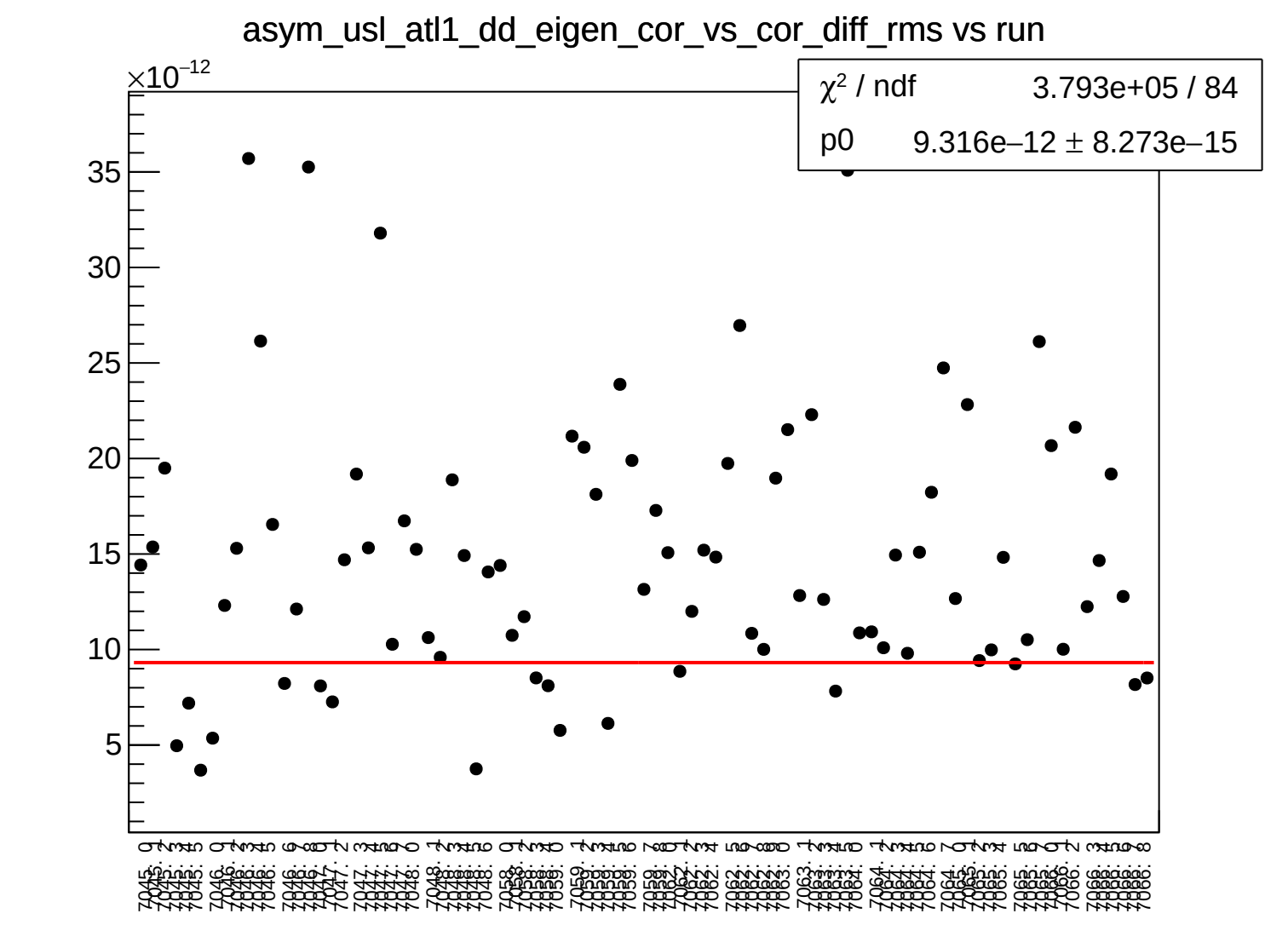

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 84
p0 20.16 ± 0.01711
50
45
40
35
30
25
20
15
10

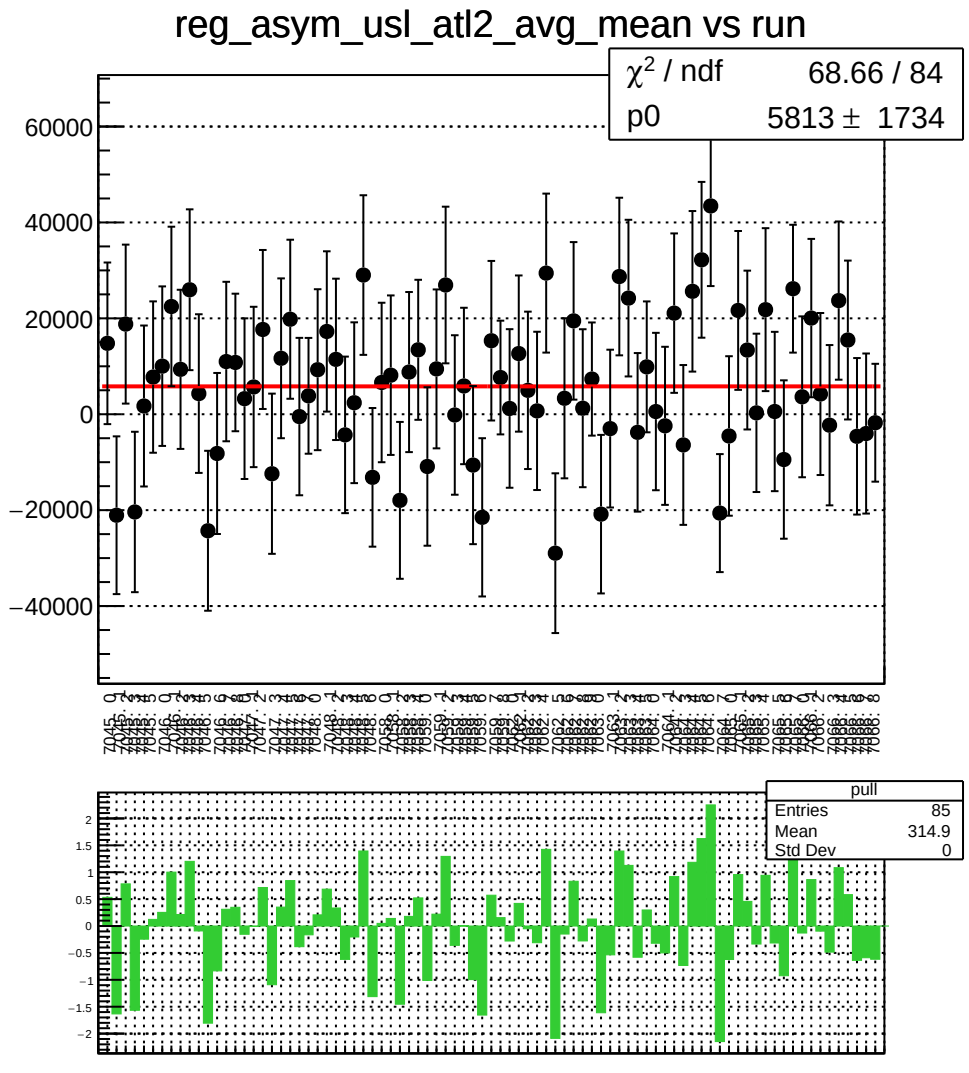

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.02 / 84
p0 −0.01686 ± 0.02419
pull
Entries 85
Mean 19.68
Std Dev 0
pull1D
Entries 85
Mean −0.03794
Std Dev 0.9695

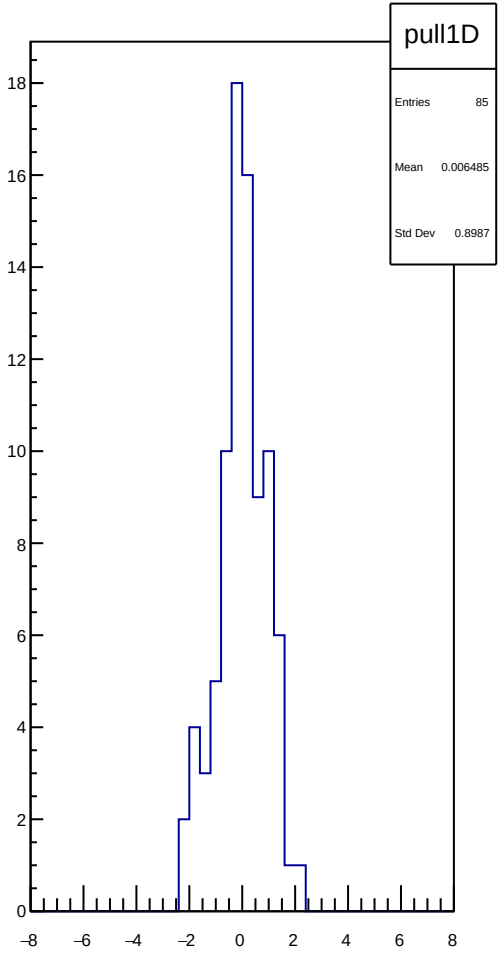

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 84
p0 20.16 ± 0.01711
50
45
40
35
30
25
20
15
10

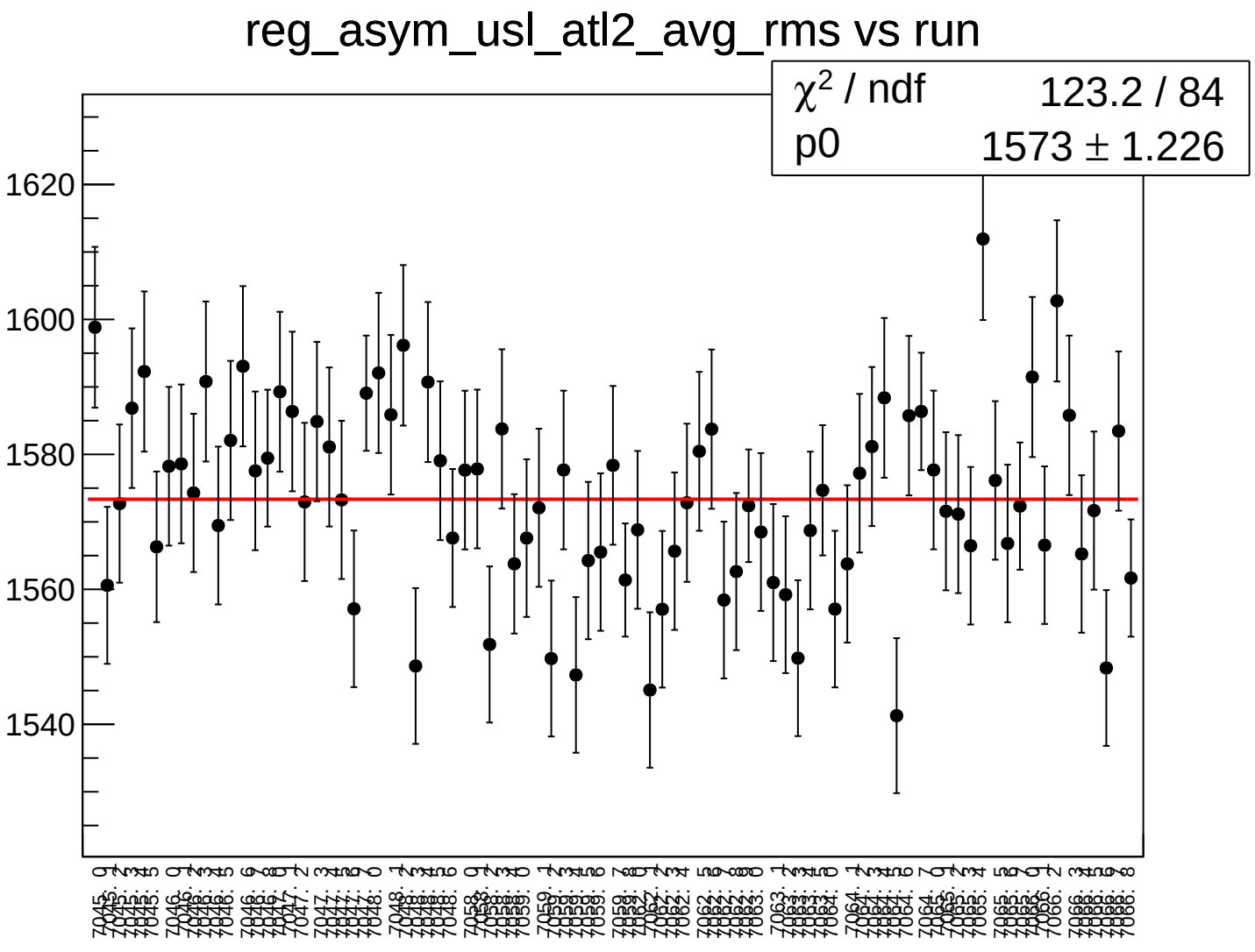

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.05 / 84
p0 7.03e−15 ± 1.17e−14
pull
Entries 85
Mean 33.24
Std Dev 22.34

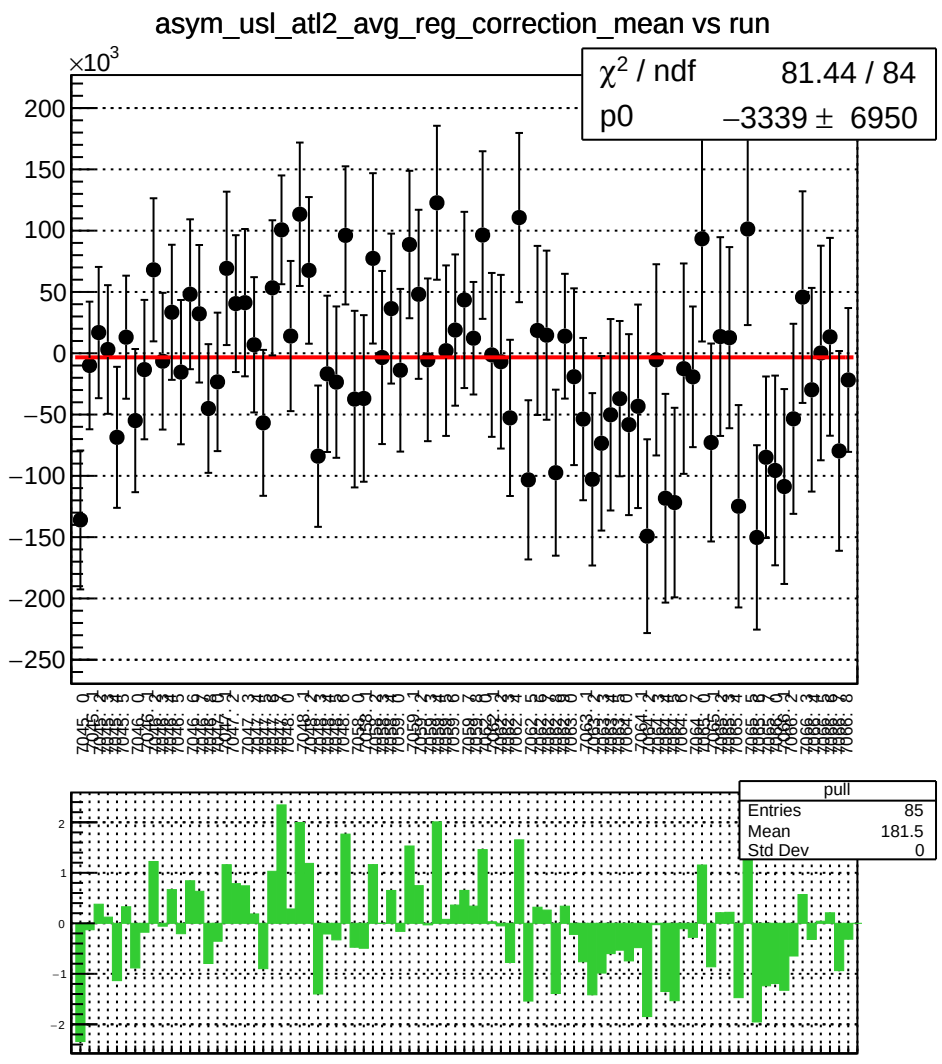

pull1D
Entries 85
Mean 0.07738
Std Dev 0.9174

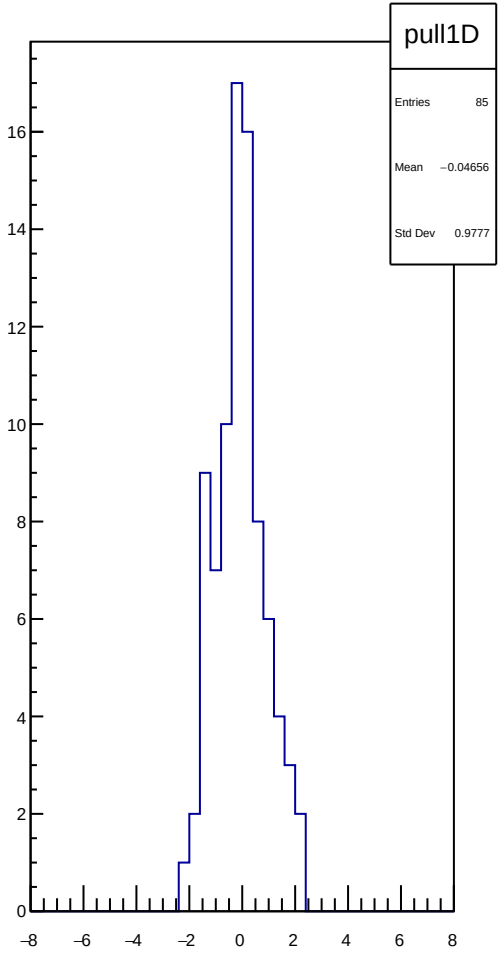

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.793e+05 / 84
p0 9.316e−12 ± 8.273e−15
35
30
25
20
15
10
5

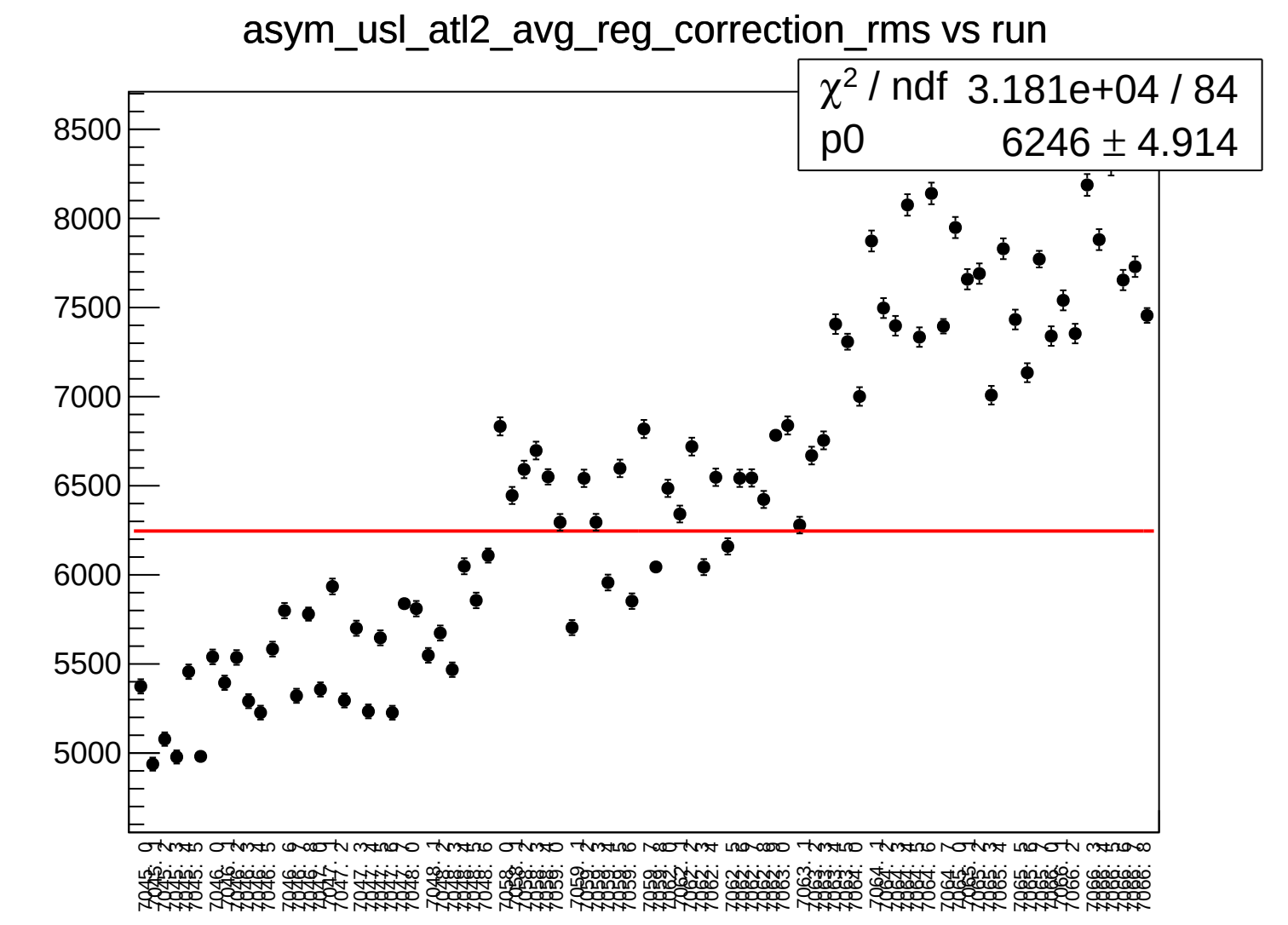

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 68.66 / 84
p0 5813 ± 1734
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 314.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

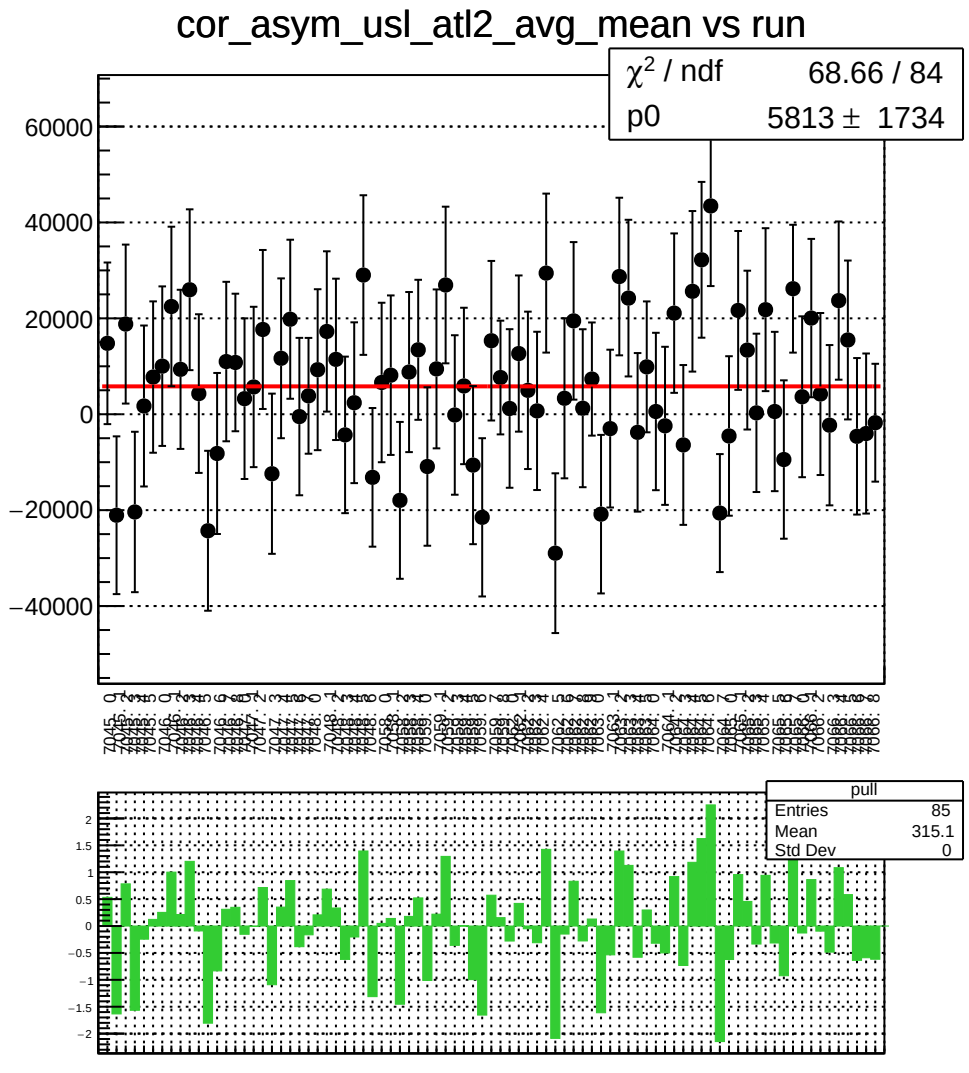

pull1D
Entries 85
Mean 0.006485
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

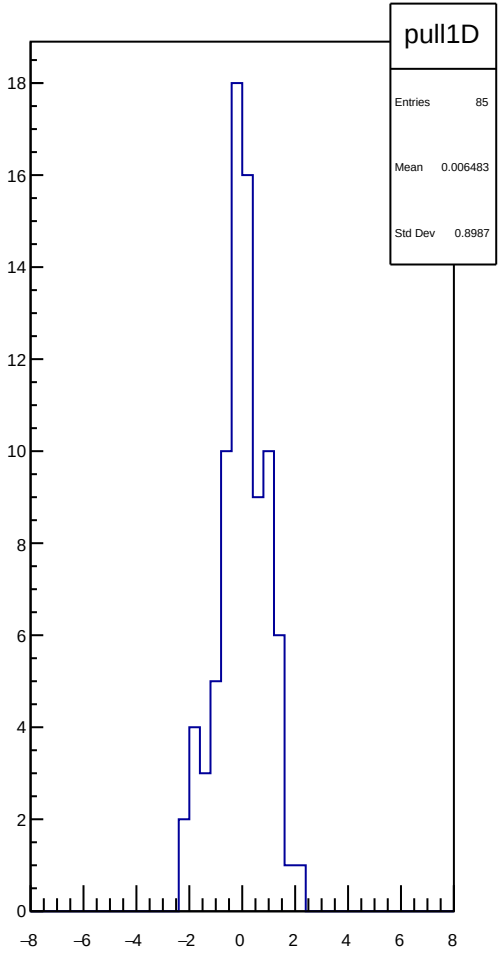

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 123.2 / 84
p0 1573 ± 1.226
1620
1600
1580
1560
1540

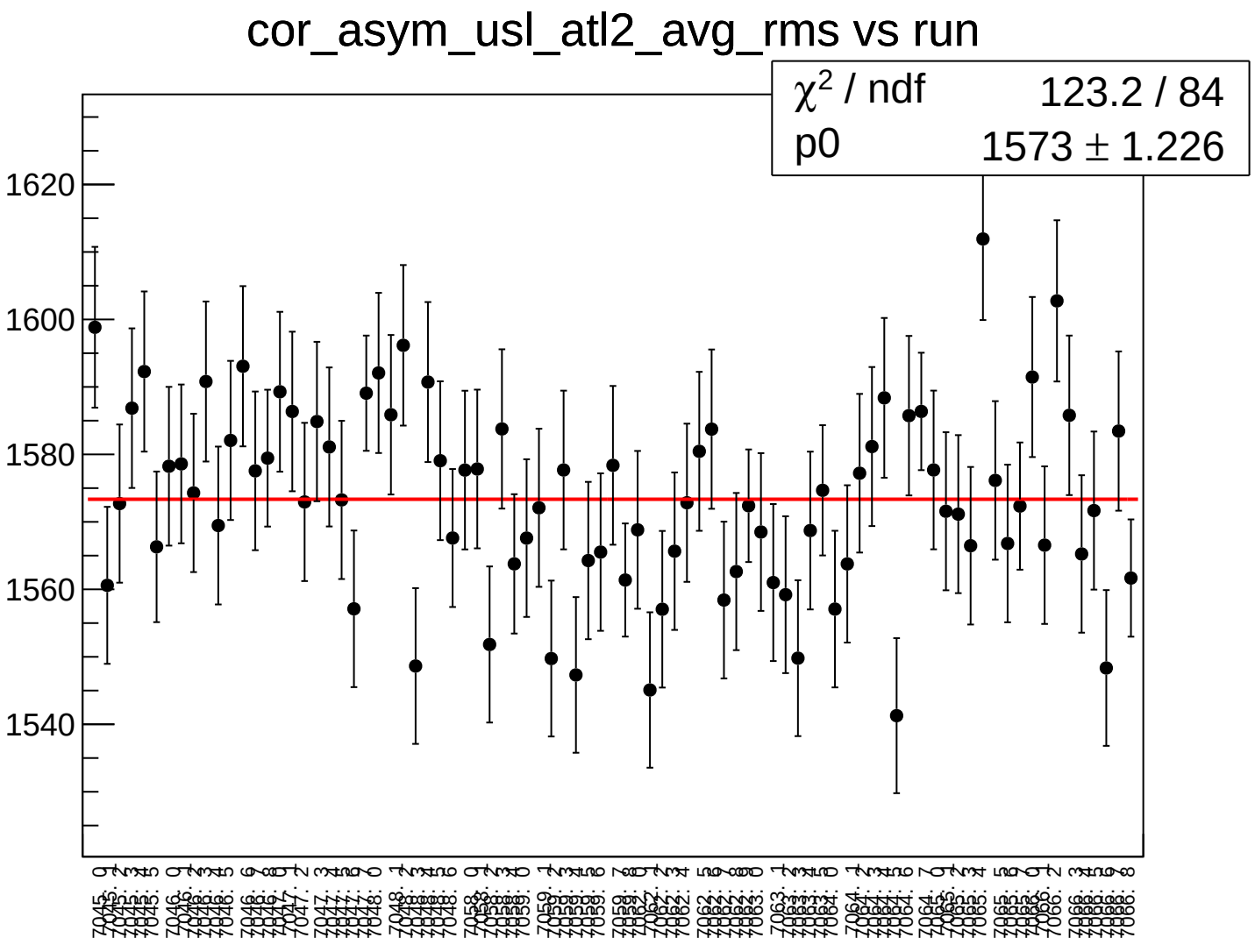

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.44 / 84
p0 −3339 ± 6950
pull
Entries 85
Mean 181.5
Std Dev 0

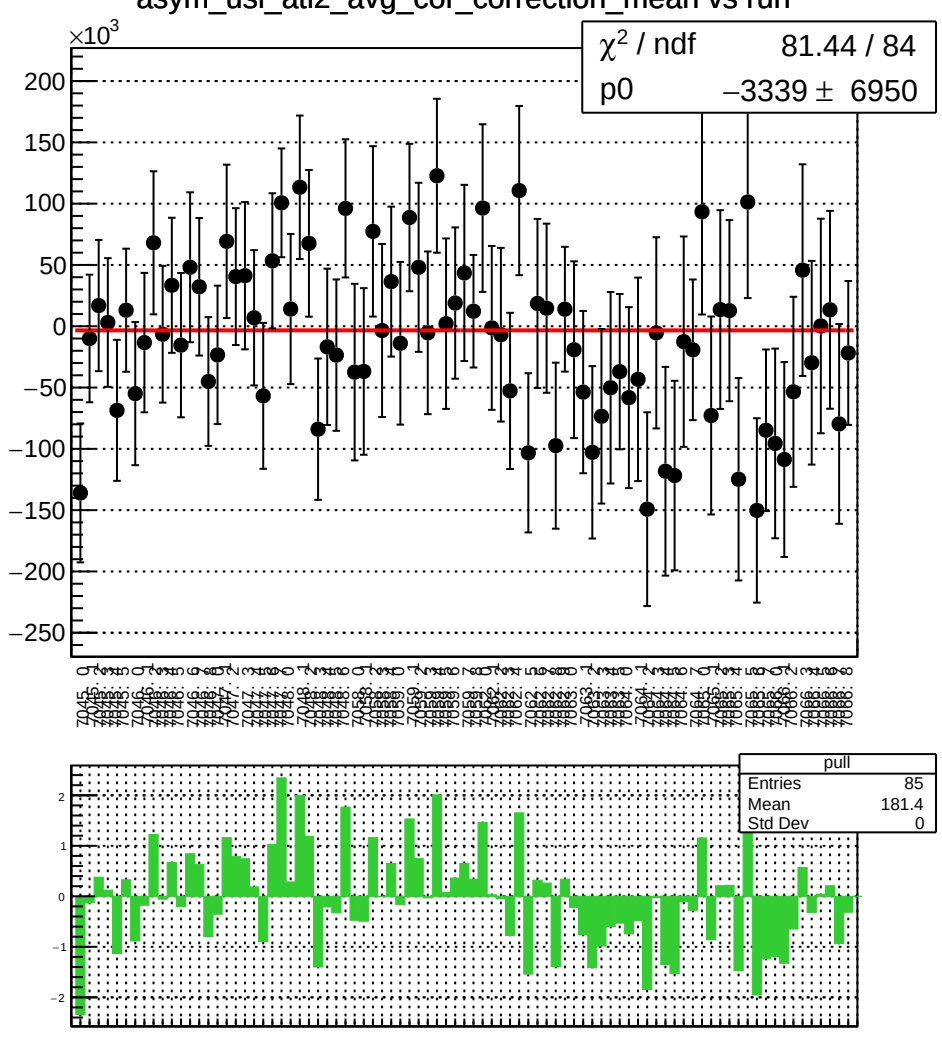

pull1D
Entries 85
Mean −0.04656
Std Dev 0.9777

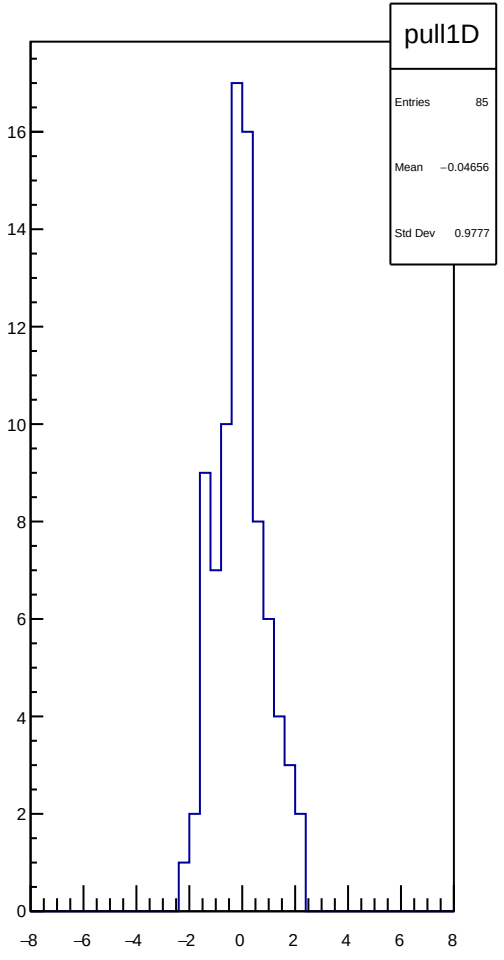

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3.181e+04 / 84
p0 6246 ± 4.914
8500
8000
7500
7000
6500
6000
5500
5000

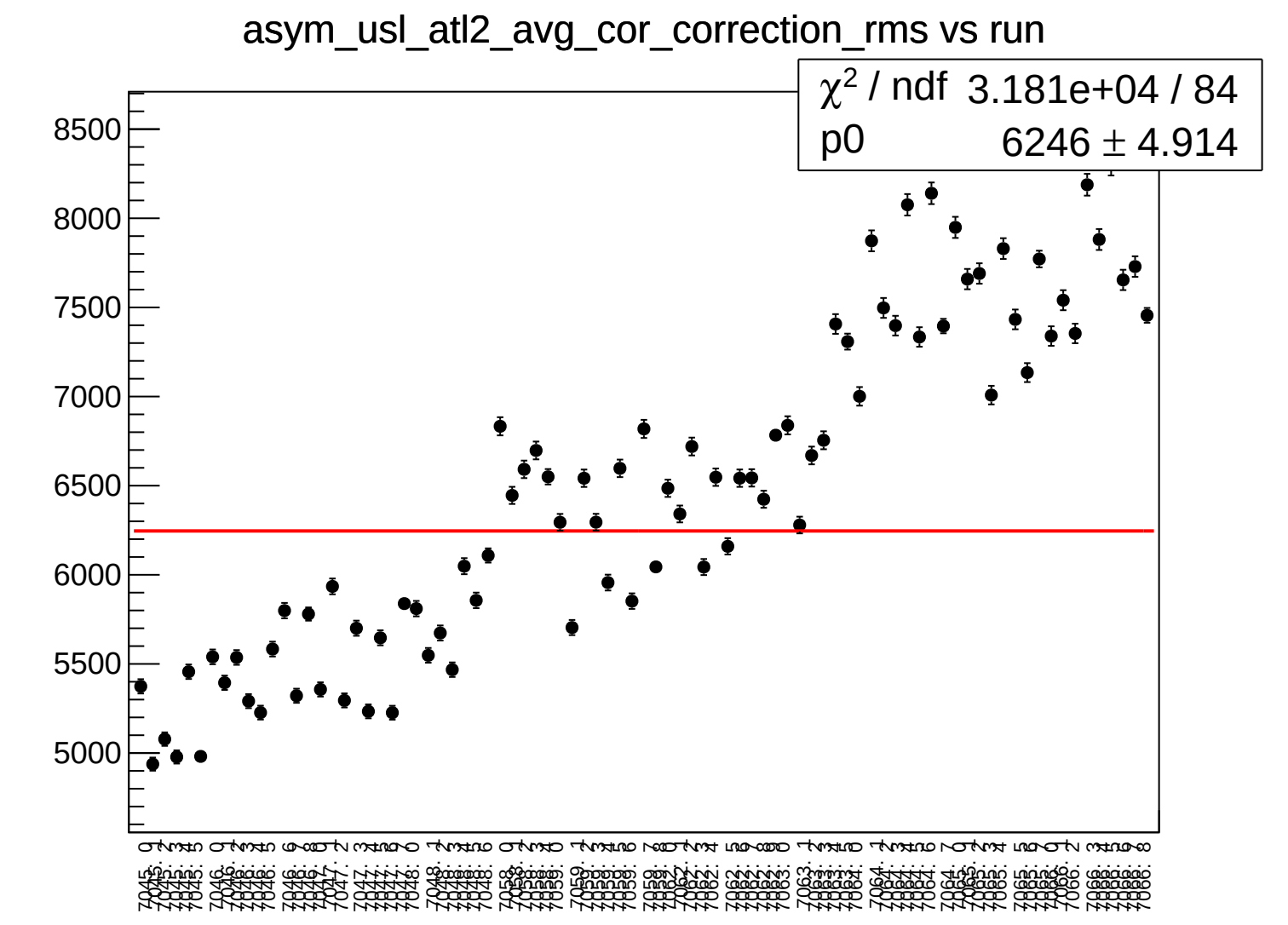

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 68.66 / 84
p0 5813 ± 1734
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 315.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

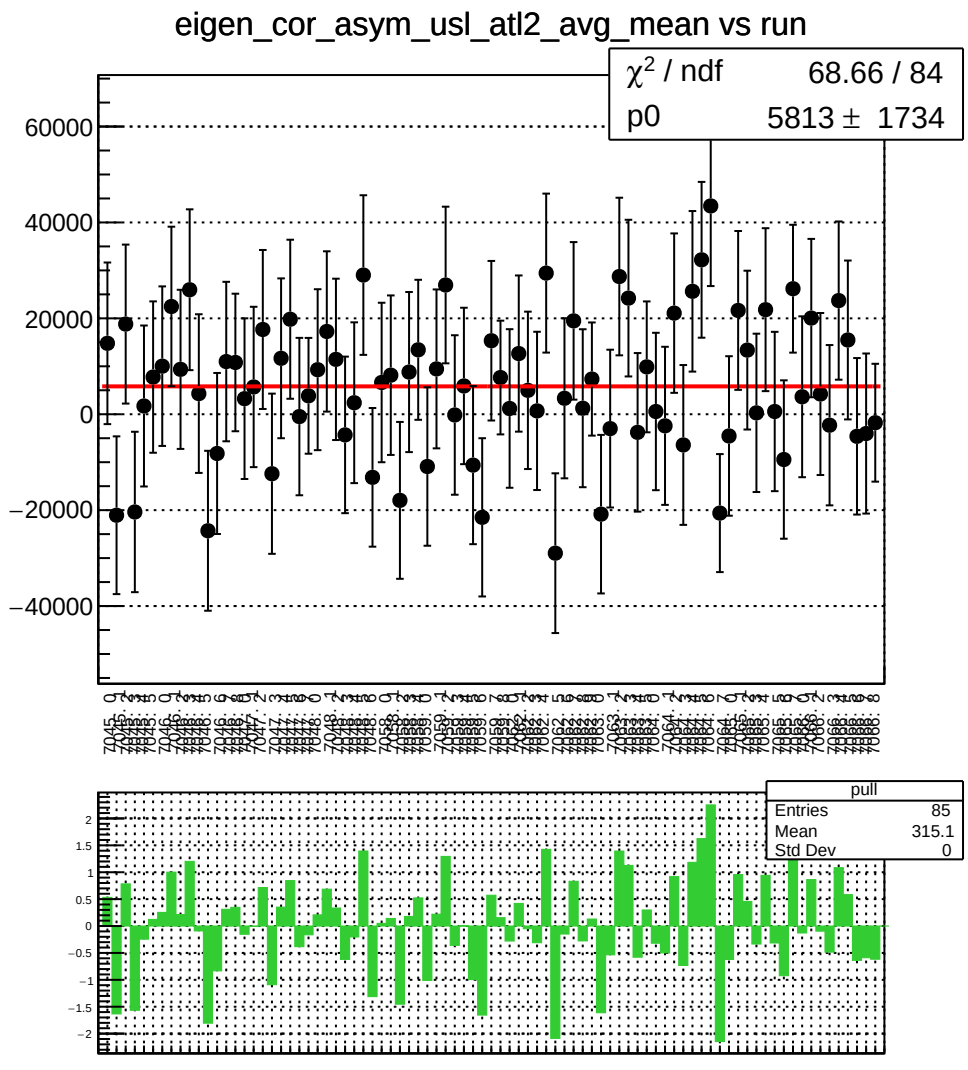

pull1D
Entries 85
Mean 0.006483
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

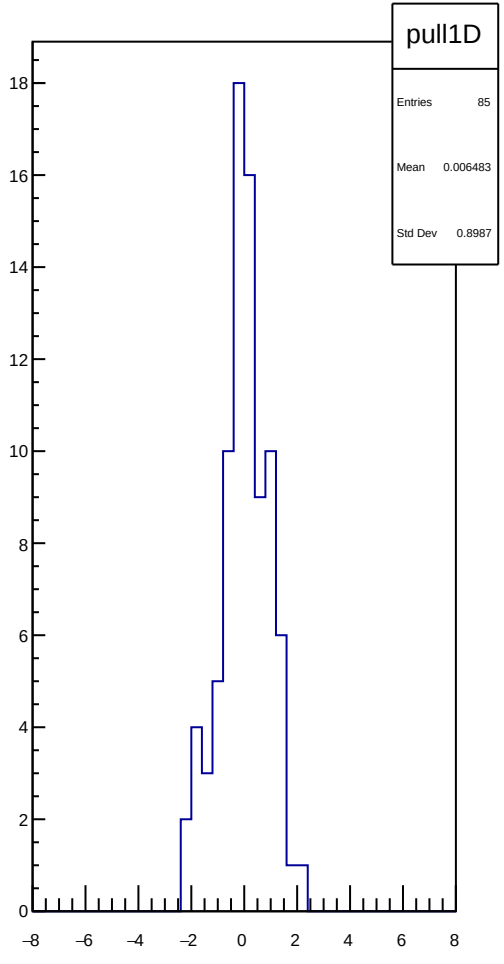

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 123.2 / 84
p0 1573 ± 1.226
1620
1600
1580
1560
1540

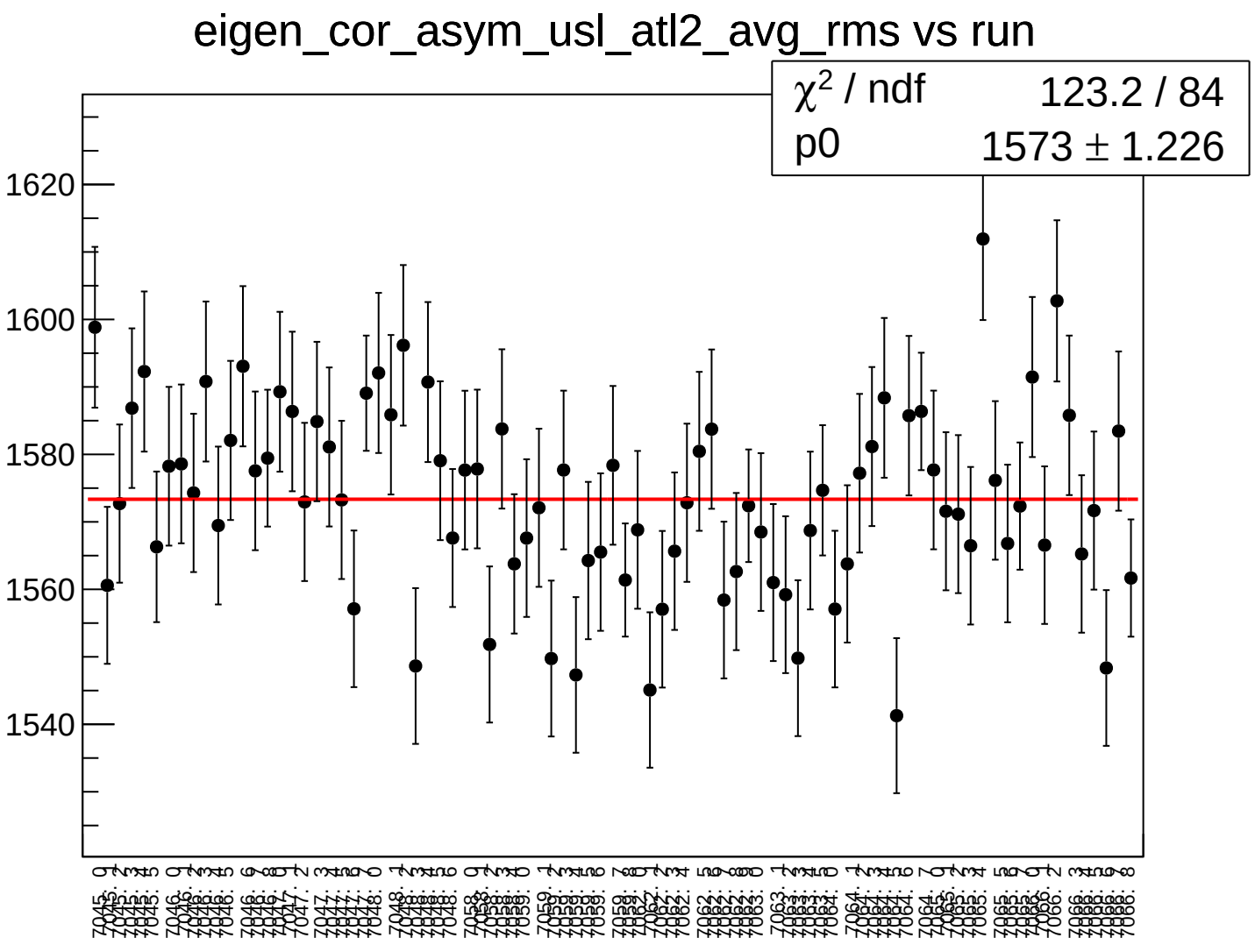

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.44 / 84
p0 −3339 ± 6950
pull
Entries 85
Mean 181.4
Std Dev 0

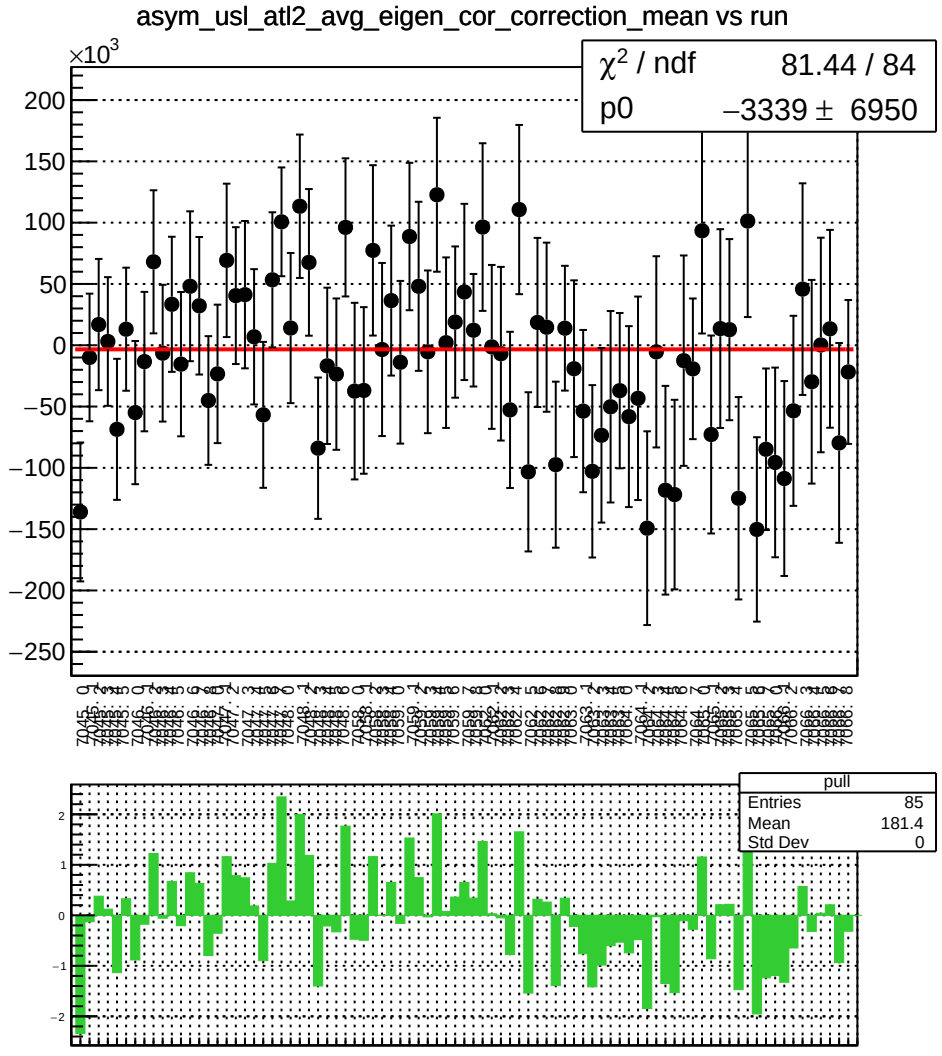

pull1D
Entries 85
Mean −0.04656
Std Dev 0.9777

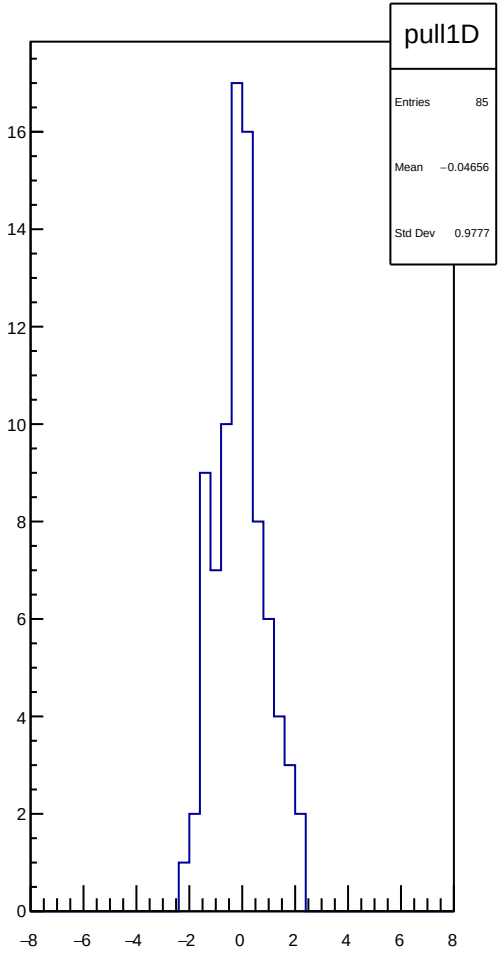

asym_usl_atl2_avg_cor_correction_rms vs run
χ^2 / ndf 3.181e+04 / 84
p0 6246 ± 4.914
8500
8000
7500
7000
6500
6000
5500
5000

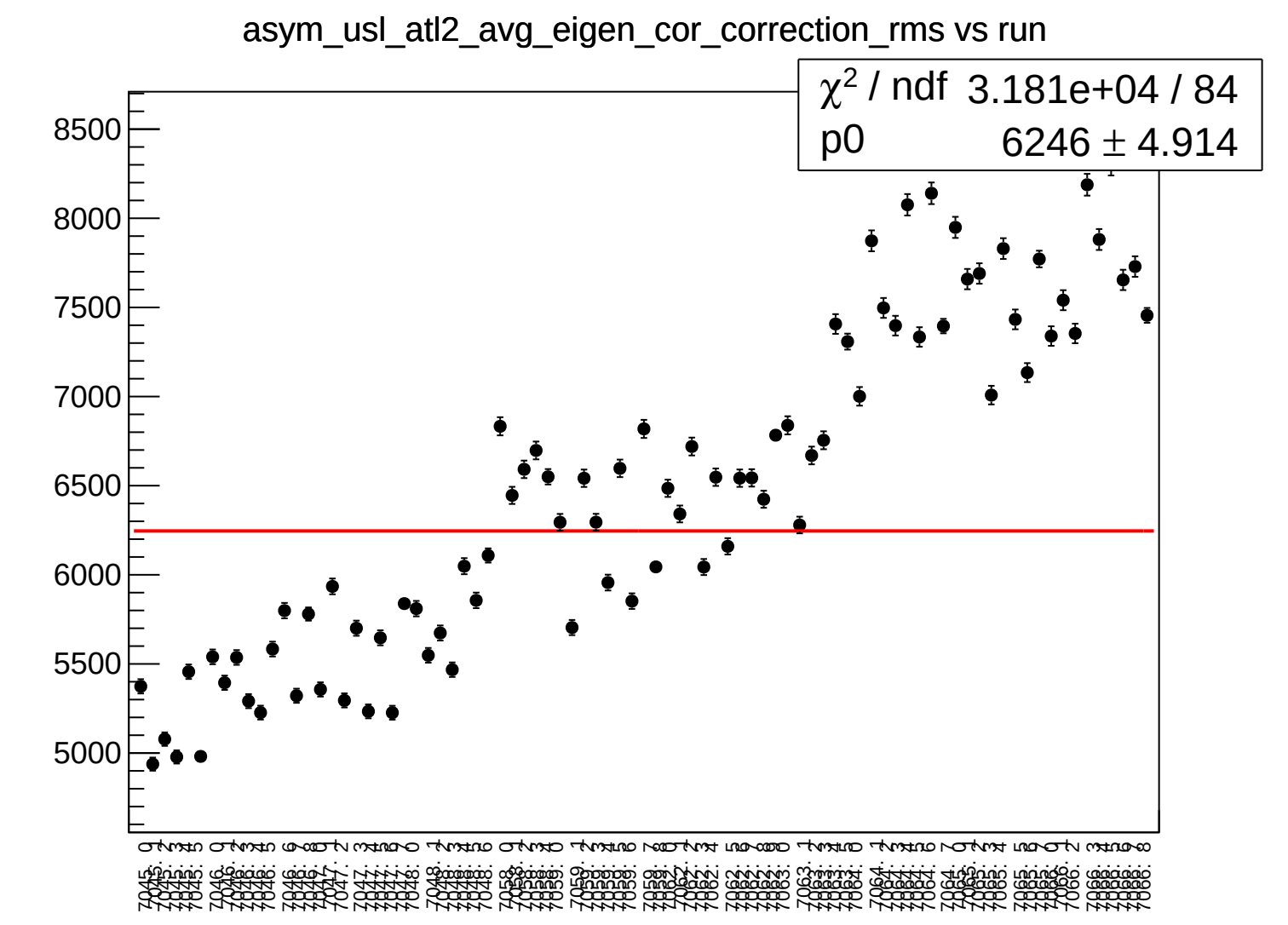

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 68.66 / 84
p0 5813 ± 1734
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 315.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

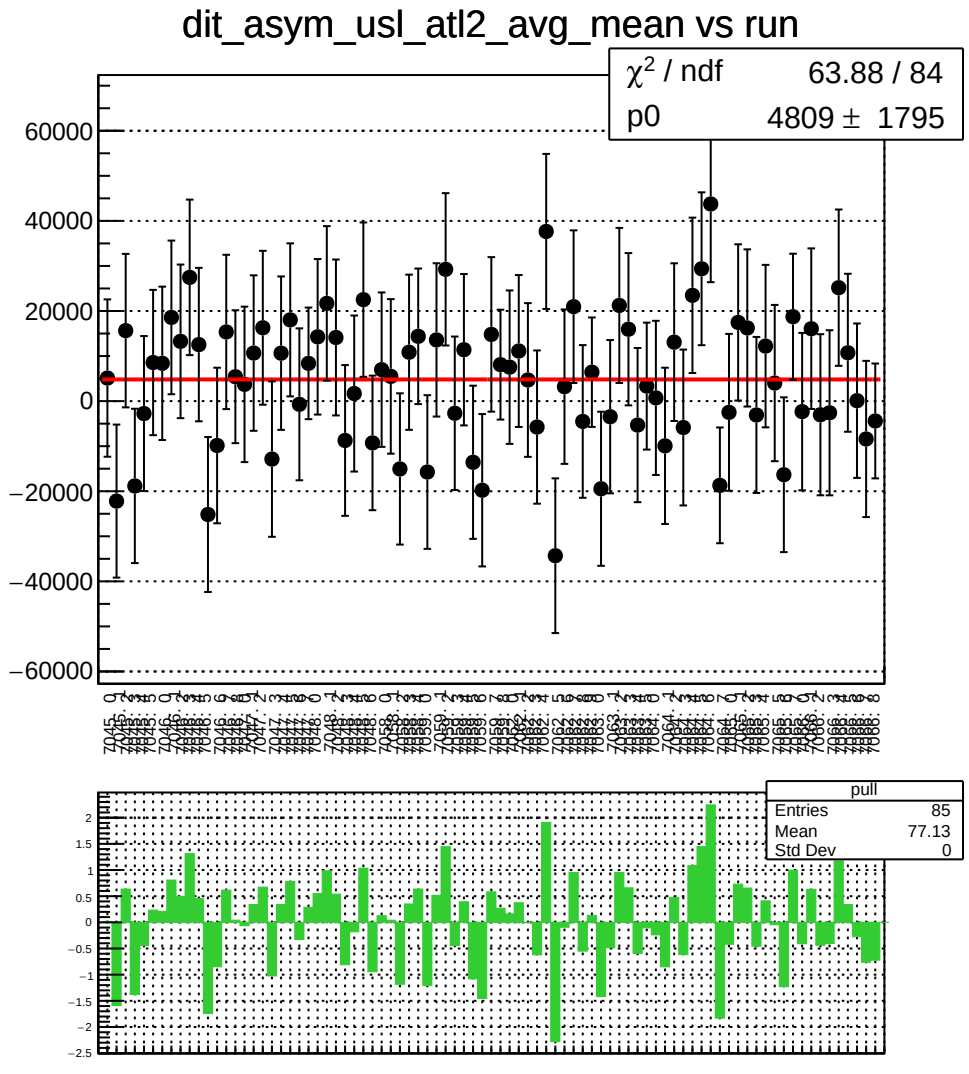

pull1D
Entries 85
Mean 0.006483
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

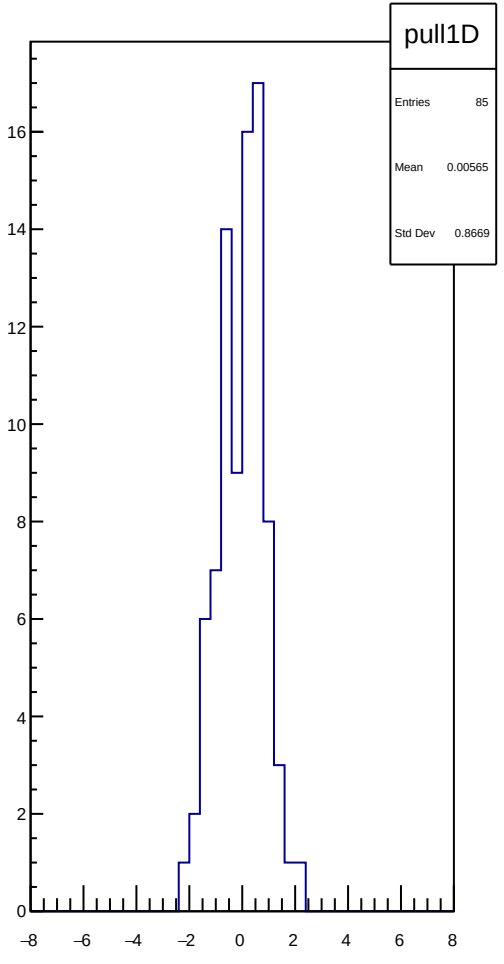

eigen_cor_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 123.2 / 84
p0 1573 ± 1.226
1620
1600
1580
1560
1540

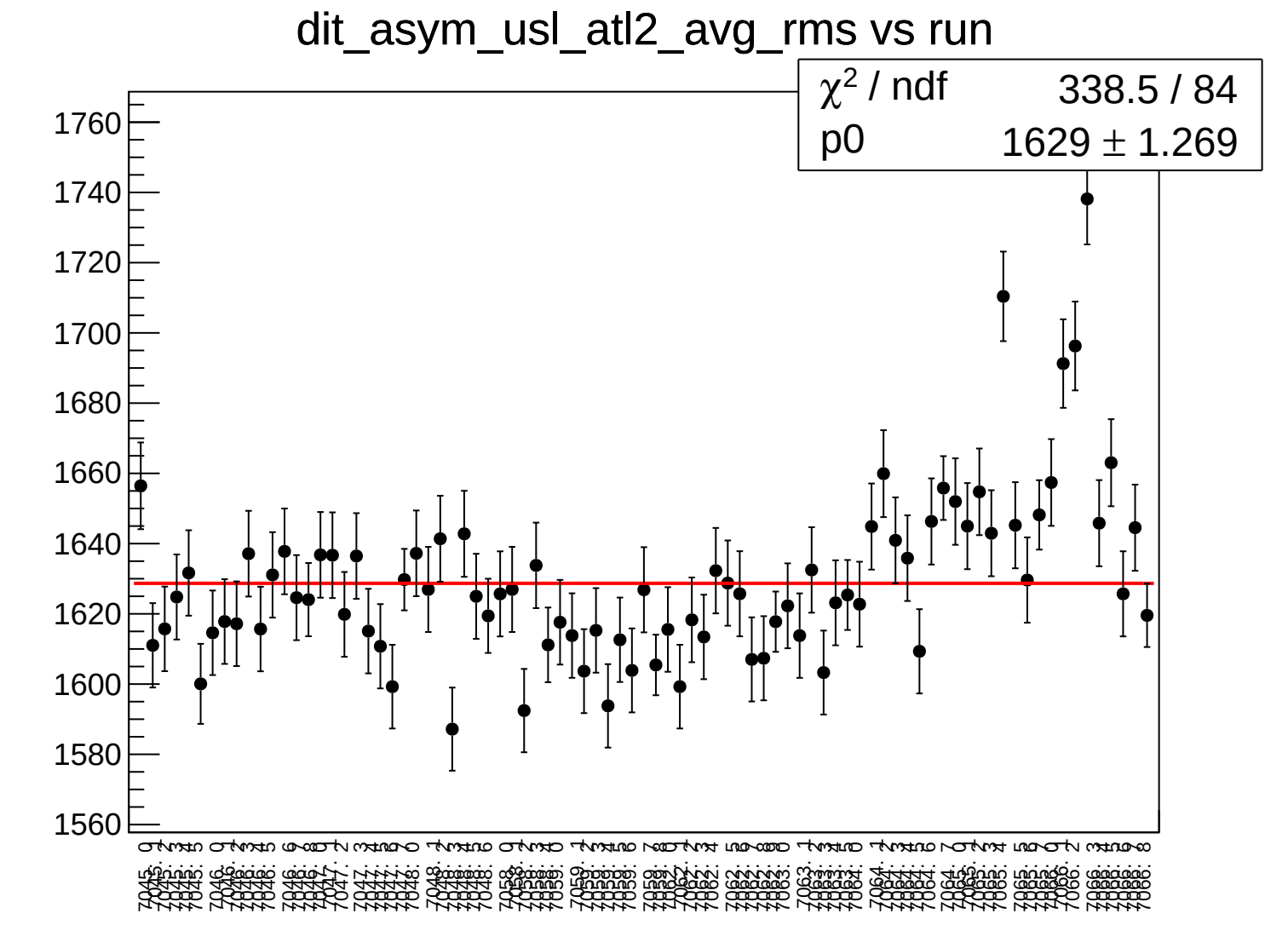

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.44 / 84
p0 −3339 ± 6950
pull
Entries 85
Mean 181.4
Std Dev 0

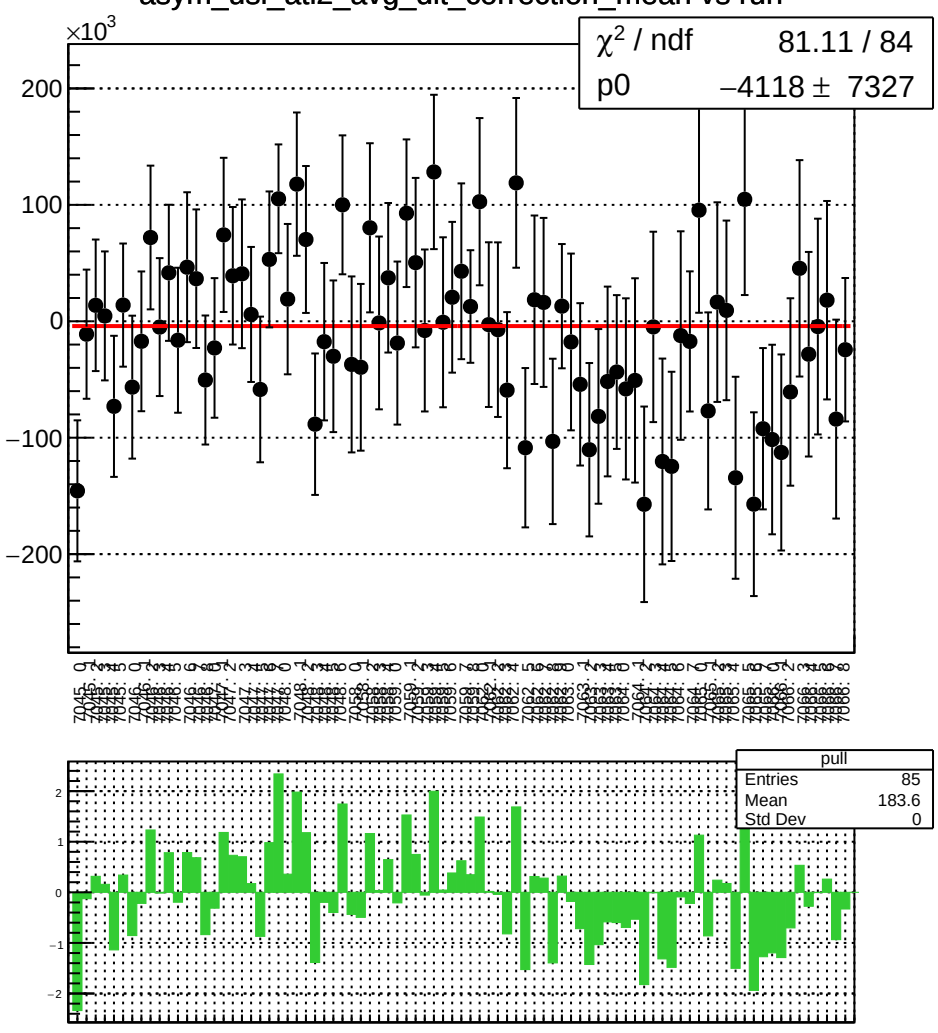

pull1D
Entries 85
Mean −0.04656
Std Dev 0.9777

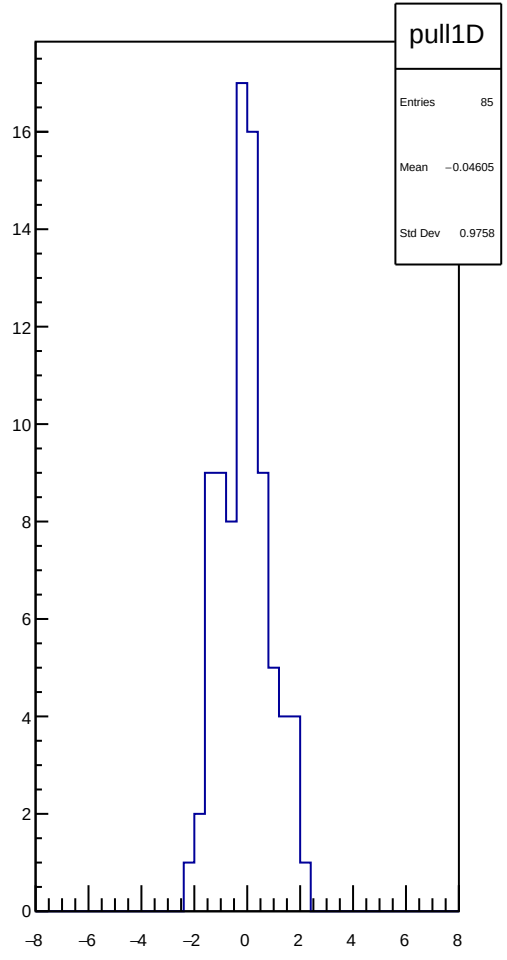

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.181e+04 / 84
p0 6246 ± 4.914
8500
8000
7500
7000
6500
6000
5500
5000

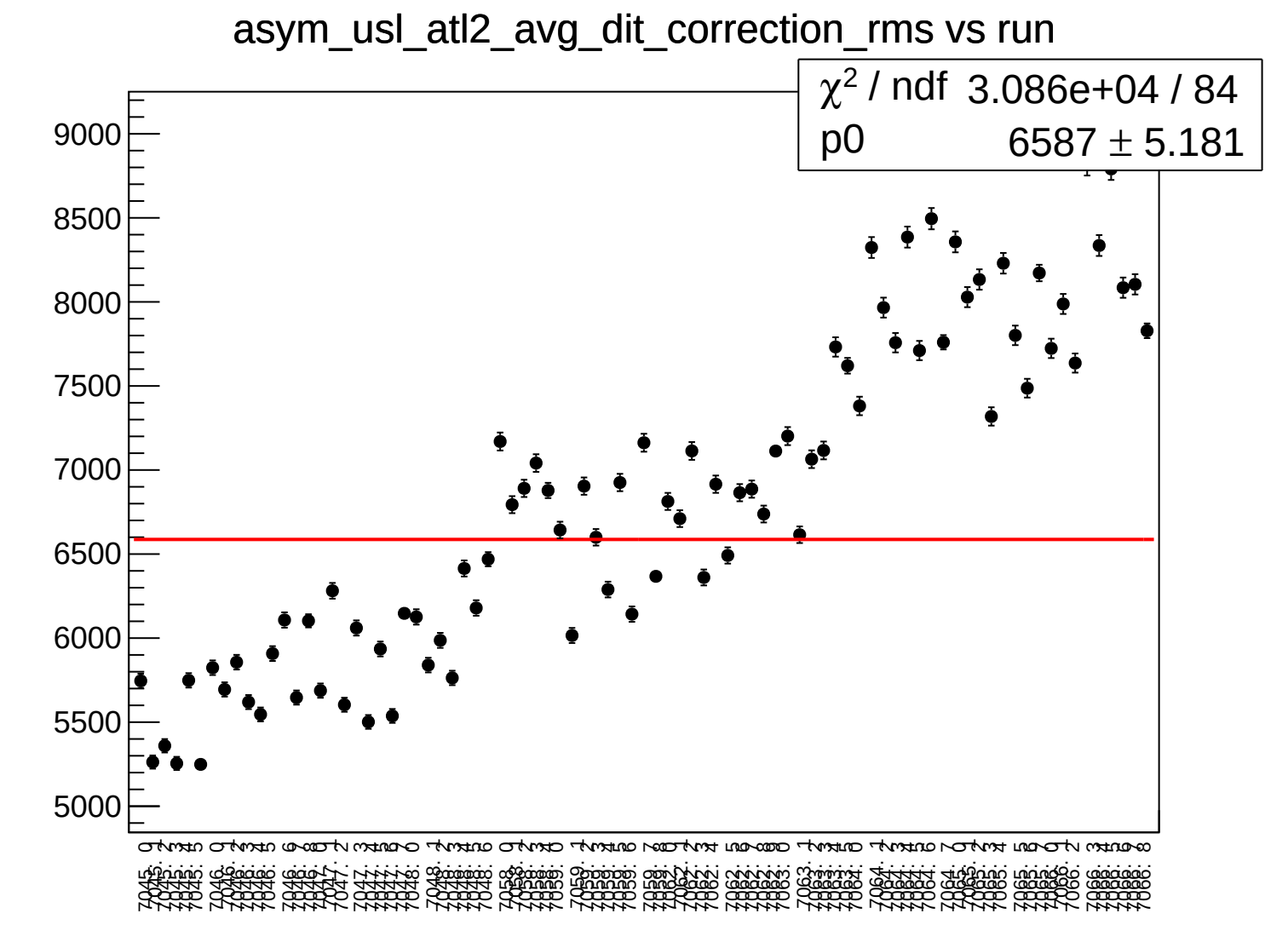

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 63.88 / 84
p0 4809 ± 1795
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 77.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

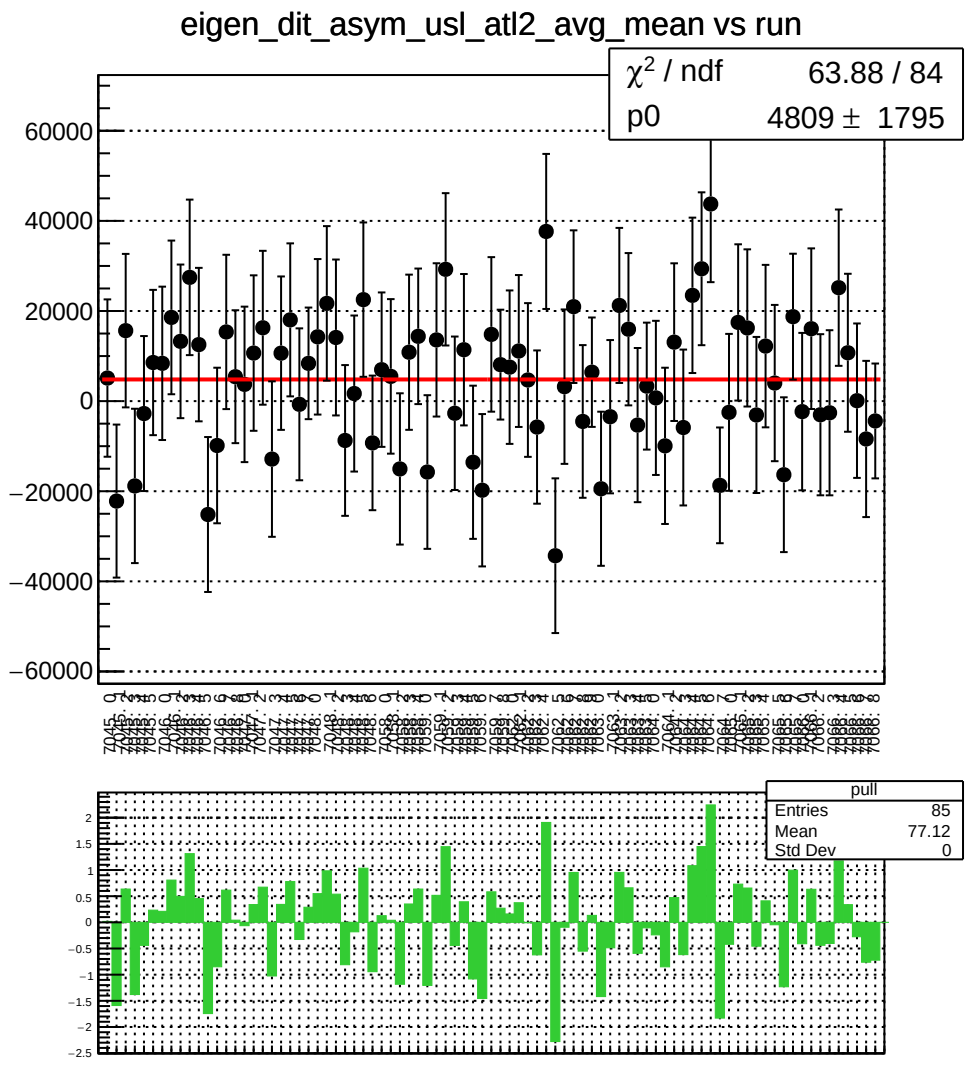

pull1D
Entries 85
Mean 0.00565
Std Dev 0.8669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

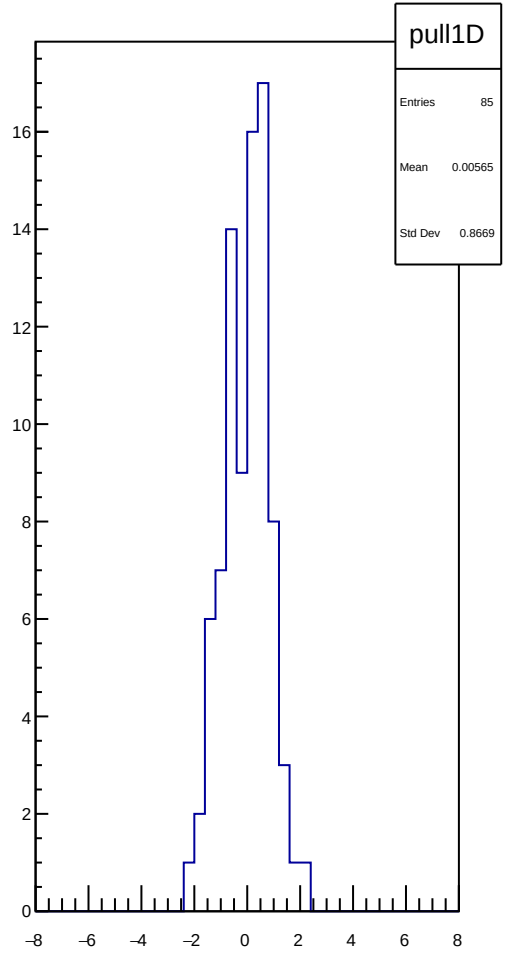

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 338.5 / 84
p0 1629 ± 1.269
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

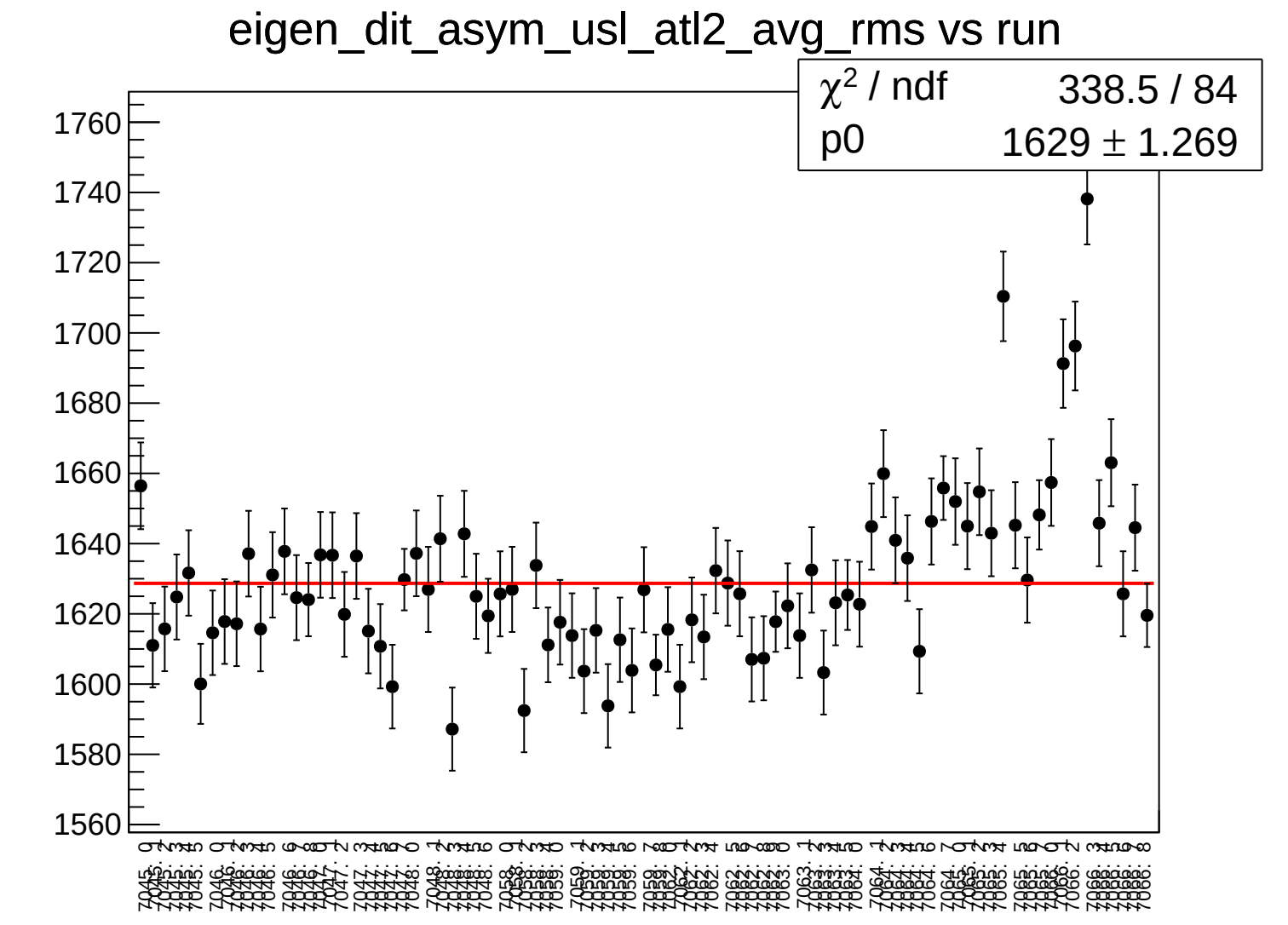

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.11 / 84
p0 −4118 ± 7327
200
100
0
−100
−200
pull
Entries 85
Mean 183.6
Std Dev 0
2
1
0
−1
−2

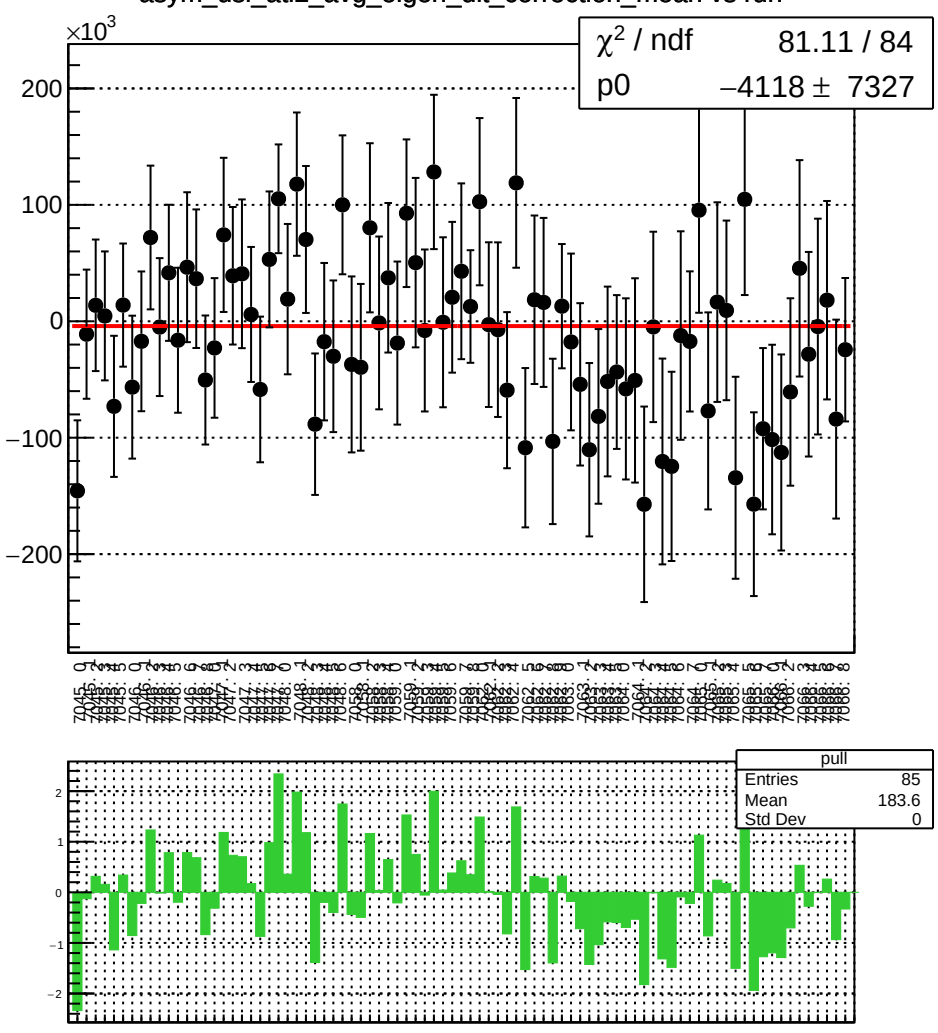

pull1D
Entries 85
Mean −0.04605
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

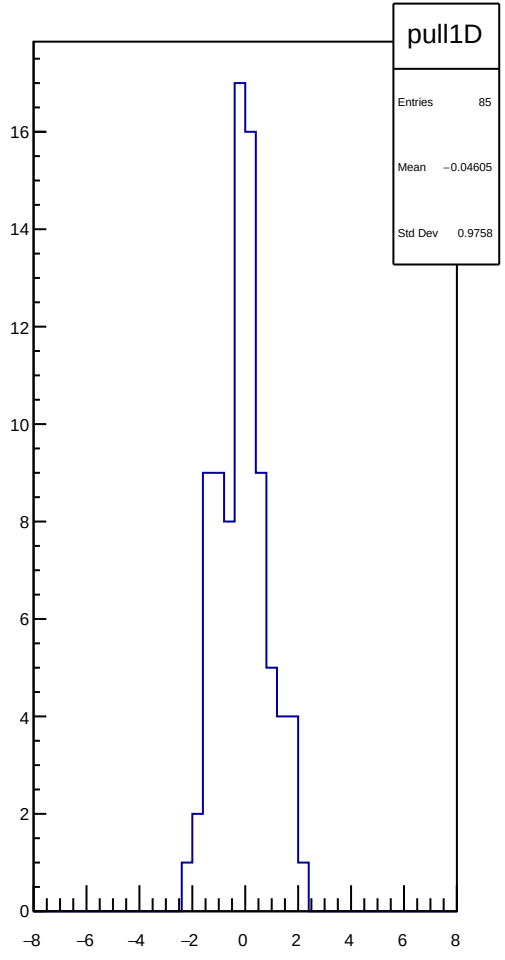

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3.086e+04 / 84
p0 6587 ± 5.181
9000
8500
8000
7500
7000
6500
6000
5500
5000

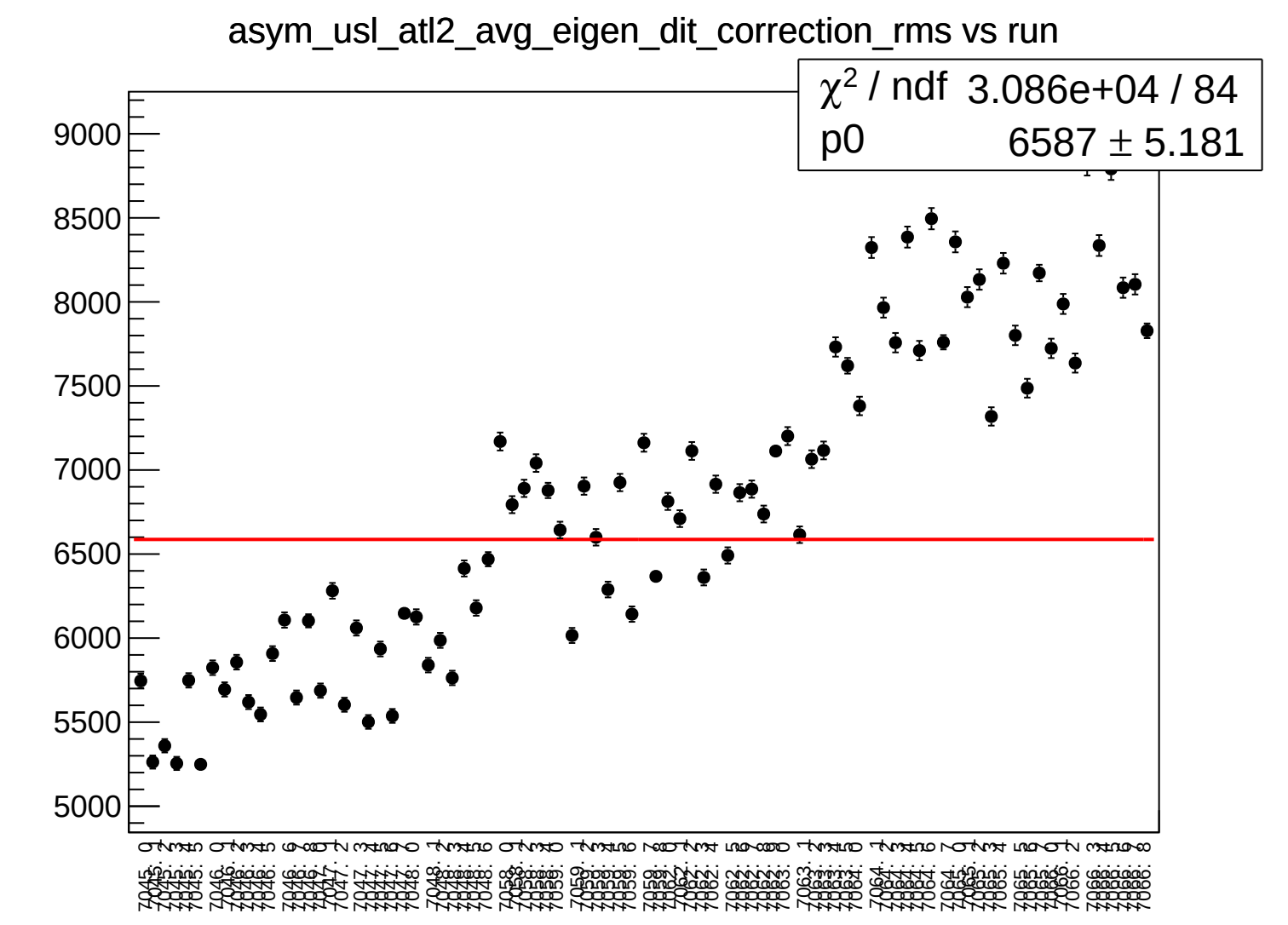

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 63.88 / 84
p0 4809 ± 1795
pull
Entries 85
Mean 77.12
Std Dev 0

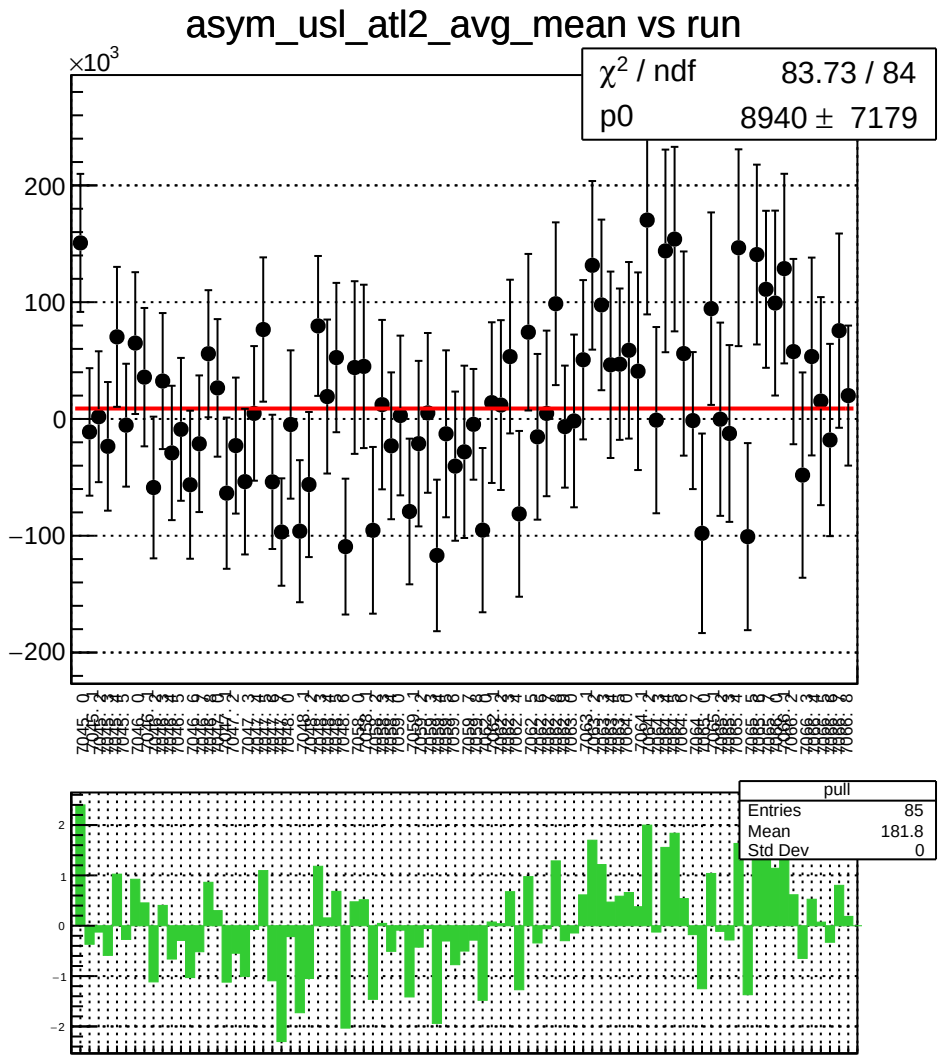

pull1D
Entries 85
Mean 0.00565
Std Dev 0.8669

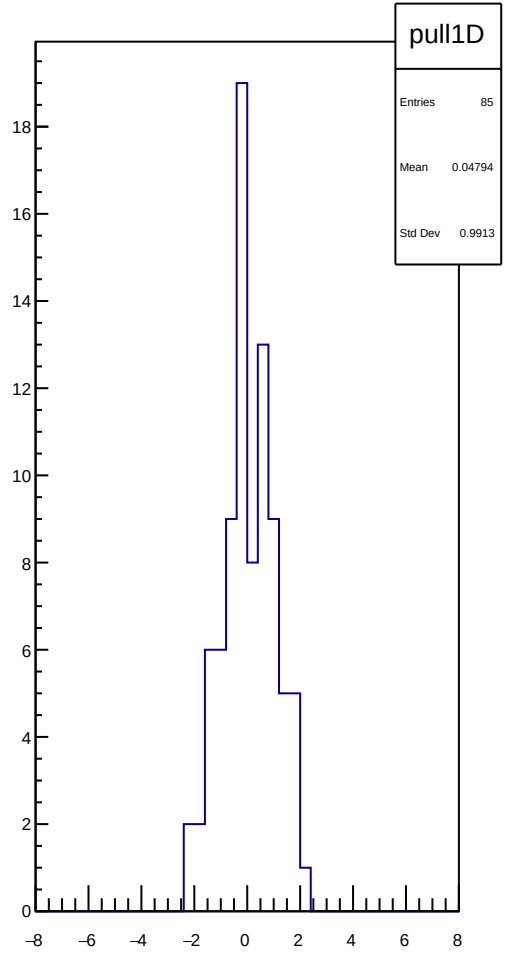

eigen_dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 338.5 / 84
p0 1629 ± 1.269
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

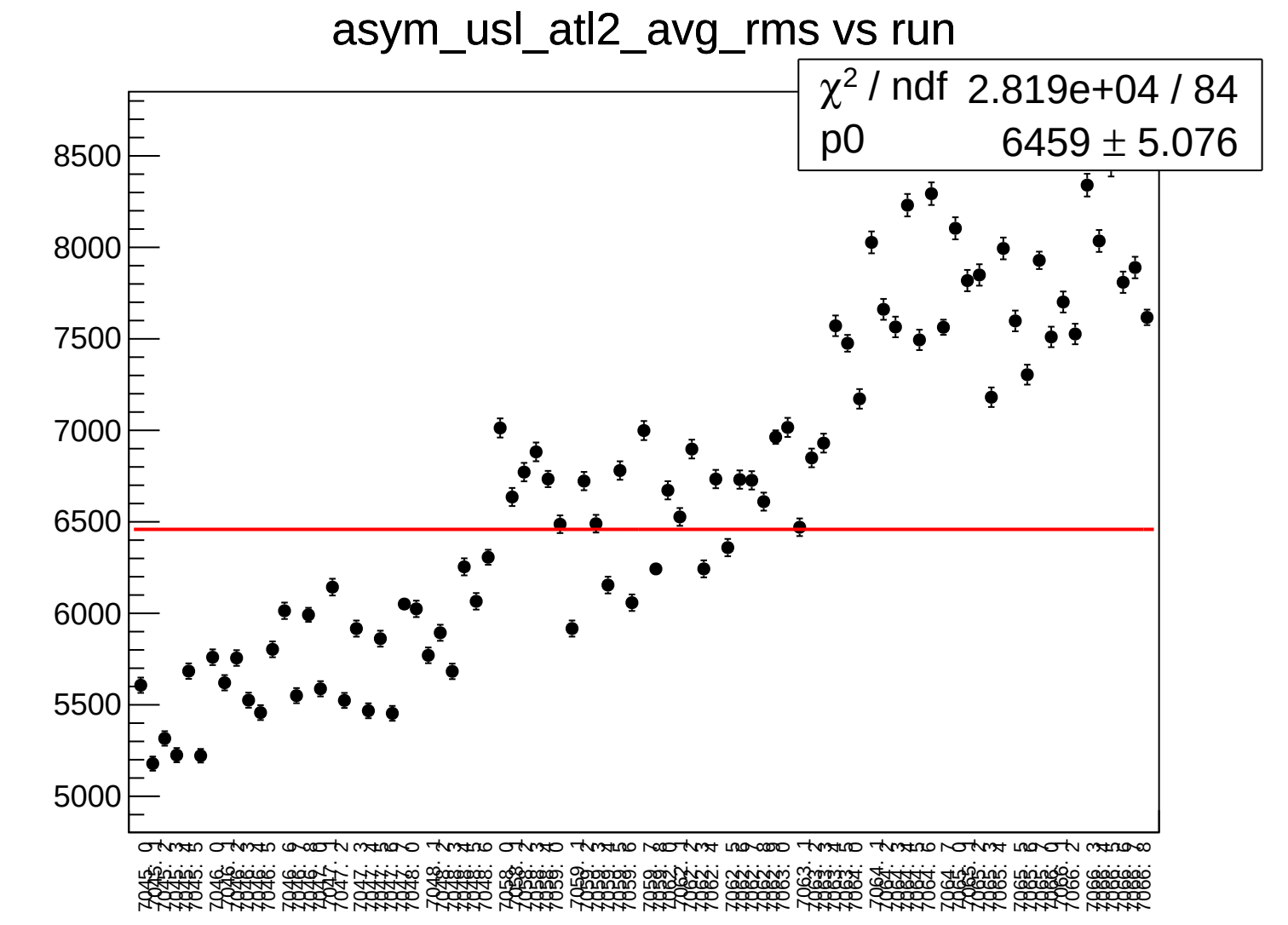

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.11 / 84
p0 −4118 ± 7327
200
100
0
−100
−200
pull
Entries 85
Mean 183.6
Std Dev 0
2
1
0
−1
−2

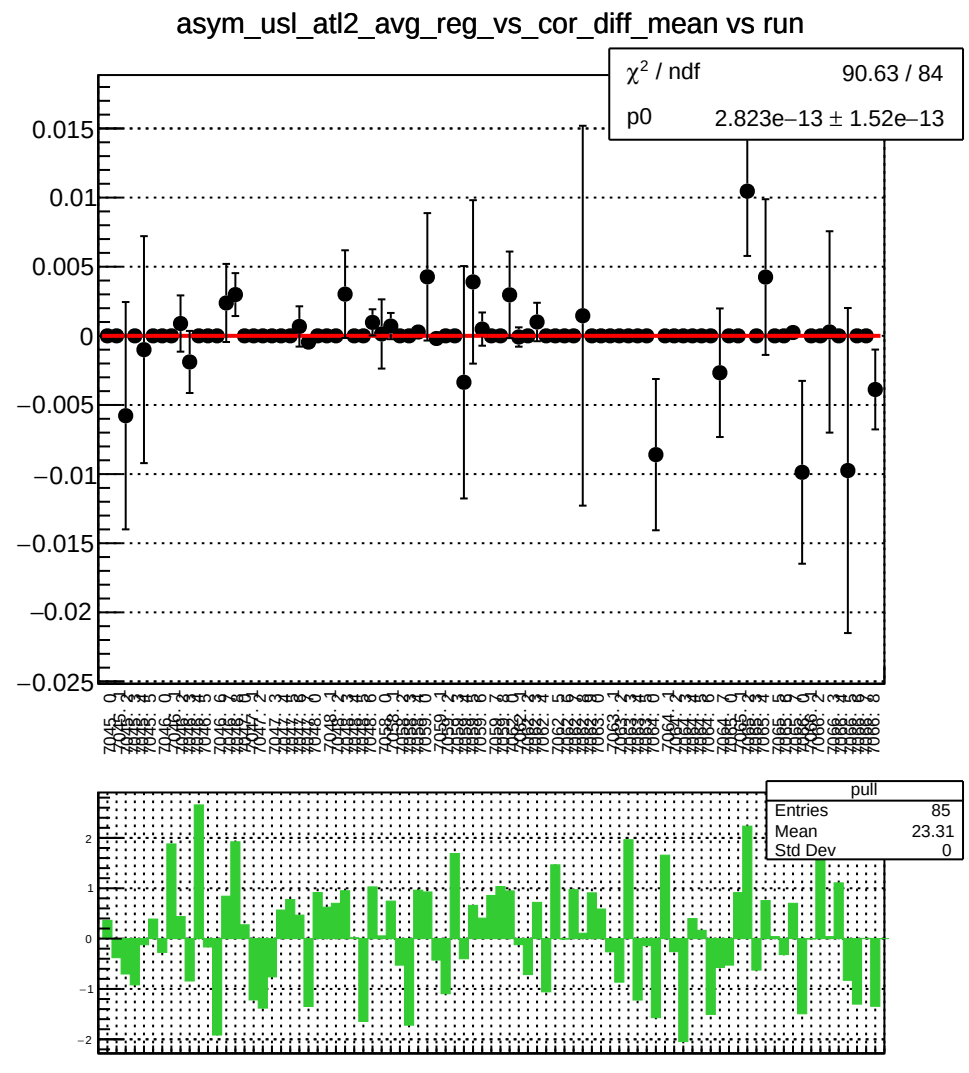

pull1D
Entries 85
Mean −0.04605
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

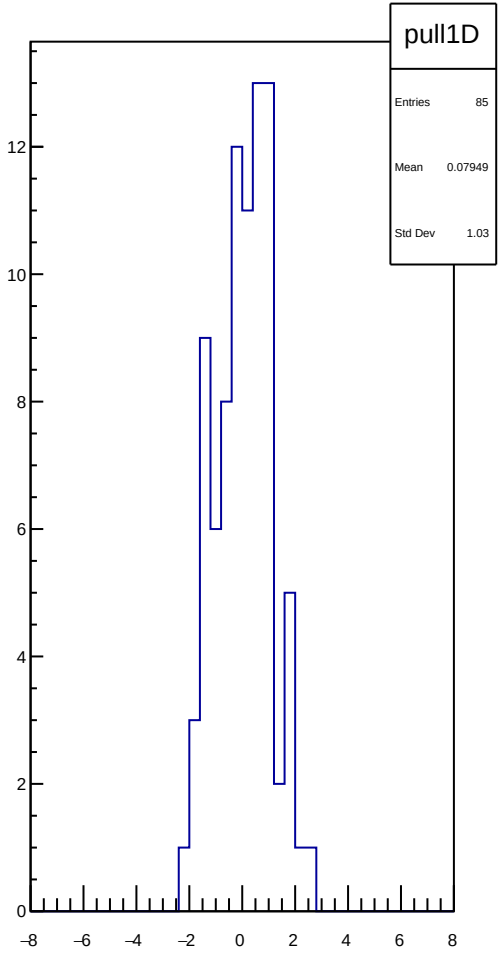

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.086e+04 / 84
p0 6587 ± 5.181
9000
8500
8000
7500
7000
6500
6000
5500
5000

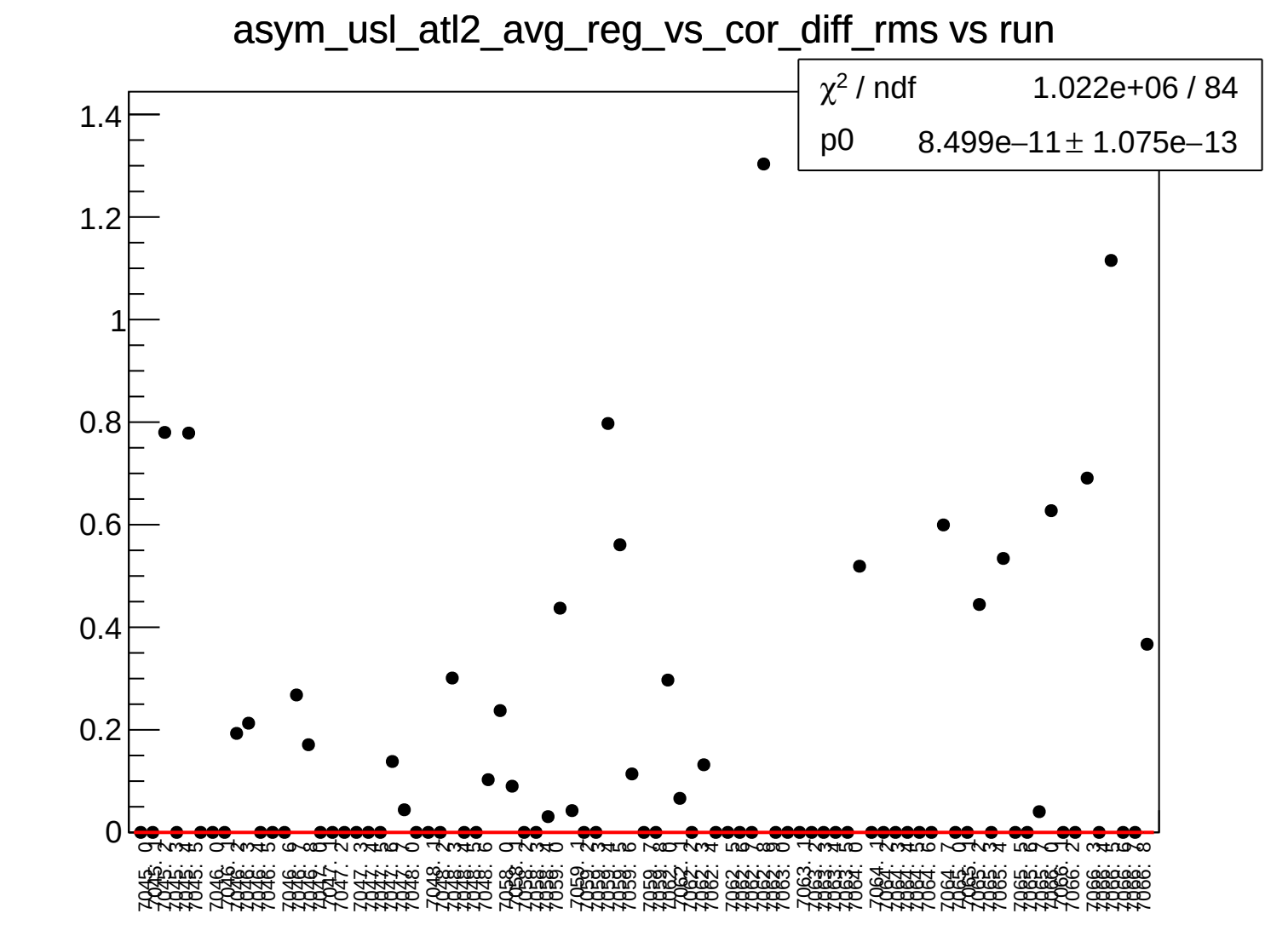

asym_usl_atl2_avg_mean vs run
χ² / ndf 83.73 / 84
p0 8940 ± 7179
×10³
200
100
0
−100
−200
pull
Entries 85
Mean 181.8
Std Dev 0
2
1
0
−1
−2

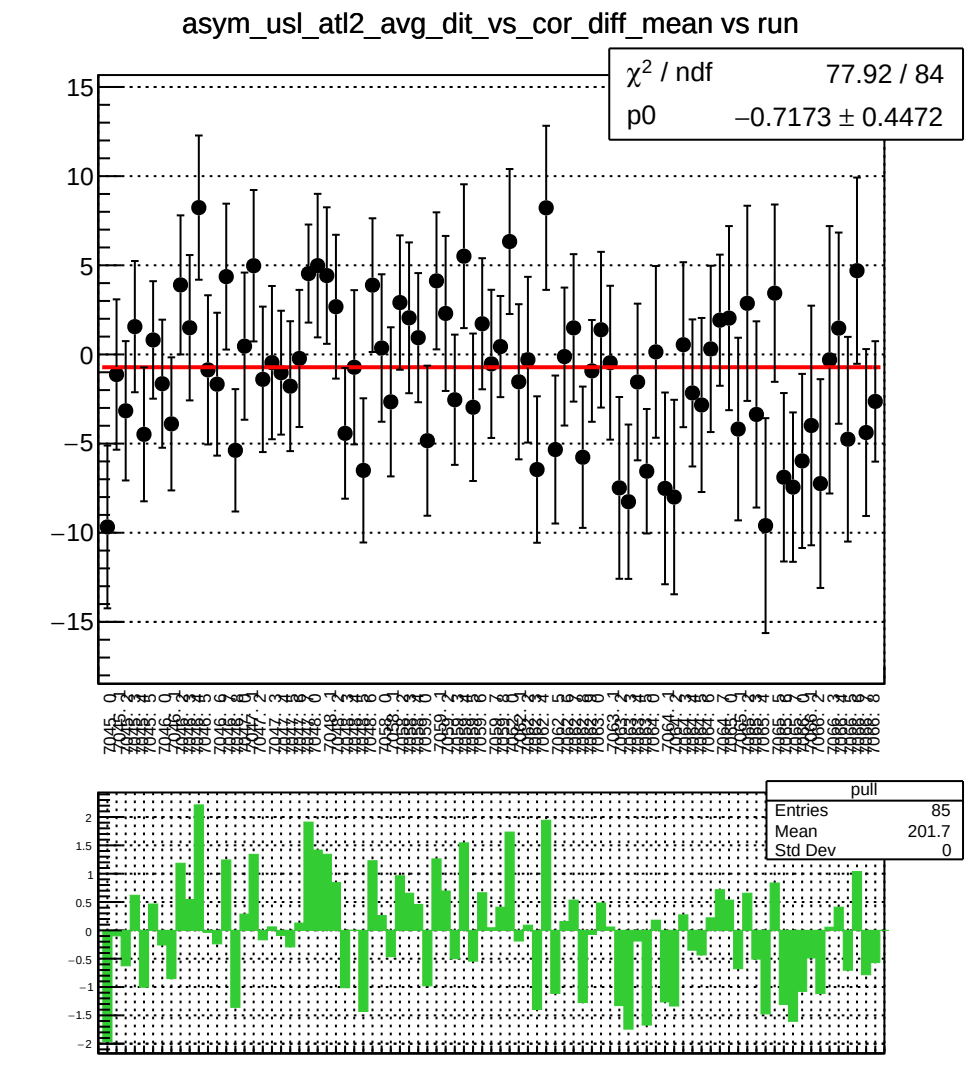

pull1D
Entries 85
Mean 0.04794
Std Dev 0.9913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

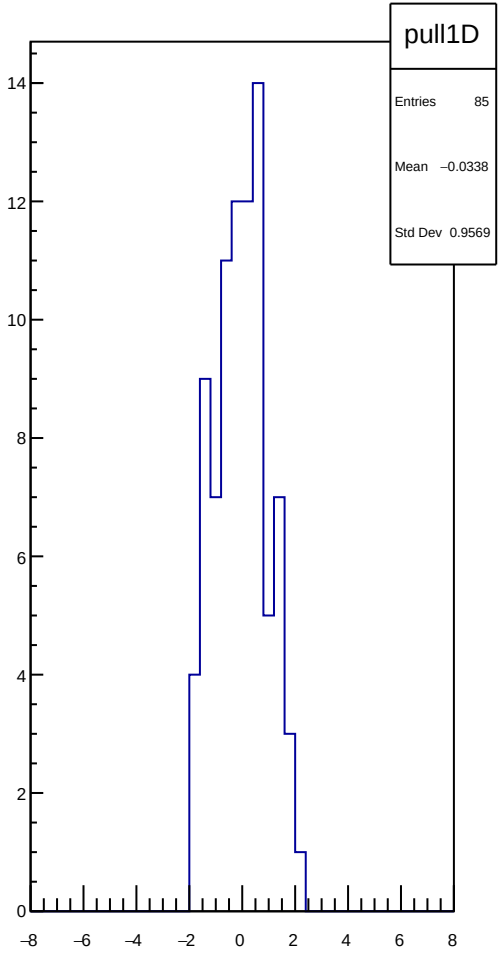

asym_usl_atl2_avg_rms vs run
χ² / ndf 2.819e+04 / 84
p0 6459 ± 5.076
8500
8000
7500
7000
6500
6000
5500
5000

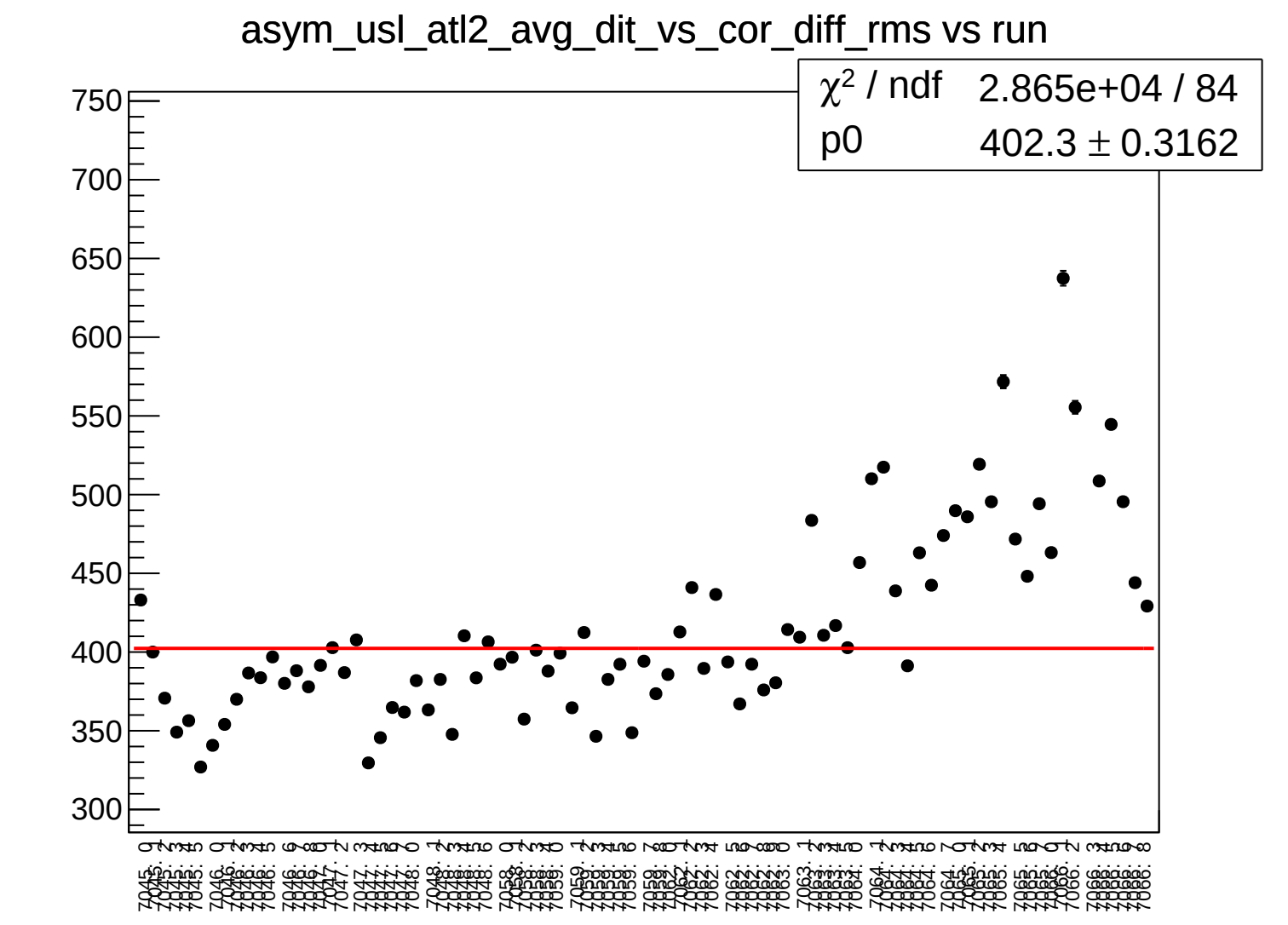

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.63 / 84
p0 2.823e−13 ± 1.52e−13
pull
Entries 85
Mean 23.31
Std Dev 0

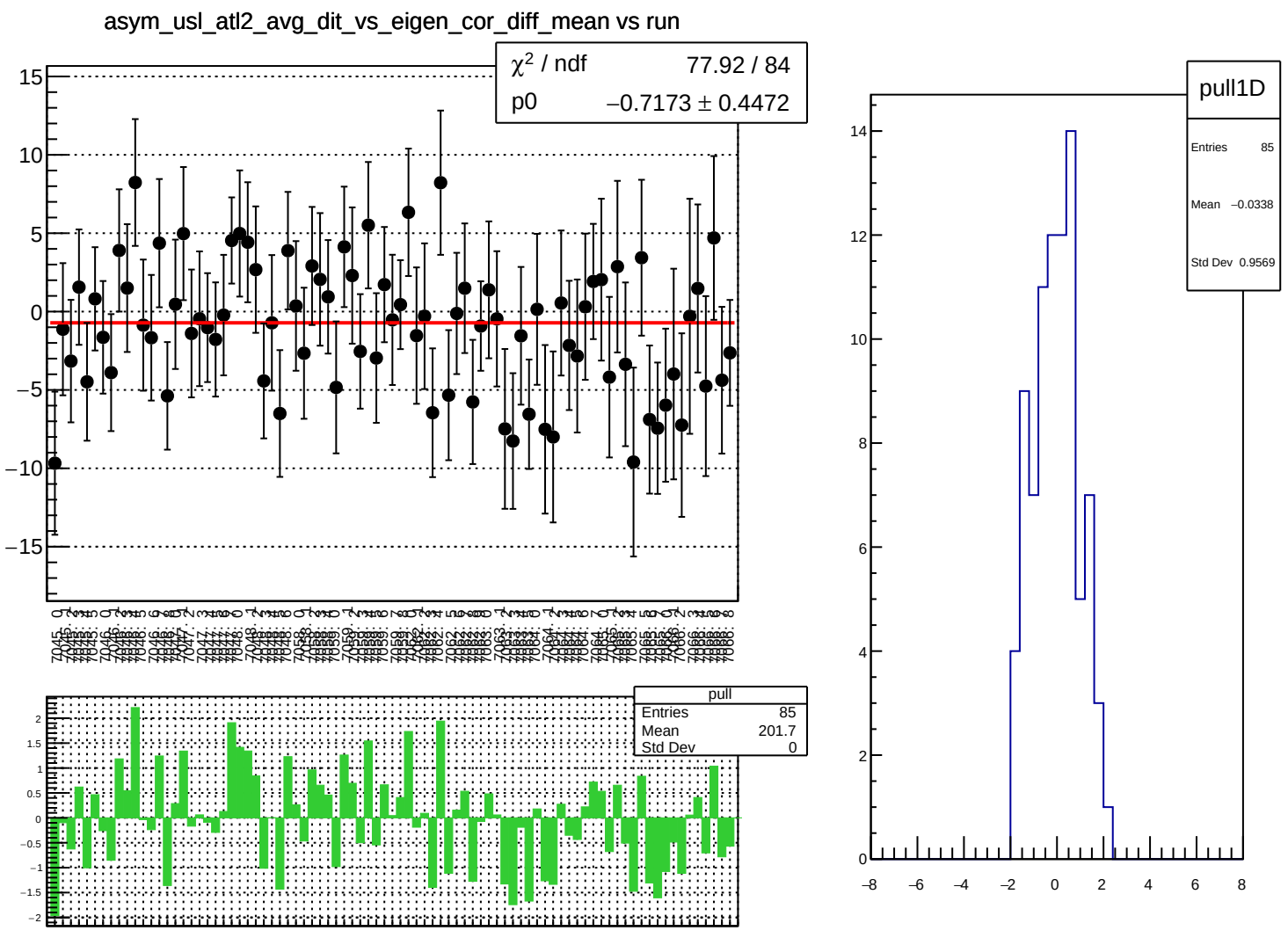

pull1D
Entries 85
Mean 0.07949
Std Dev 1.03

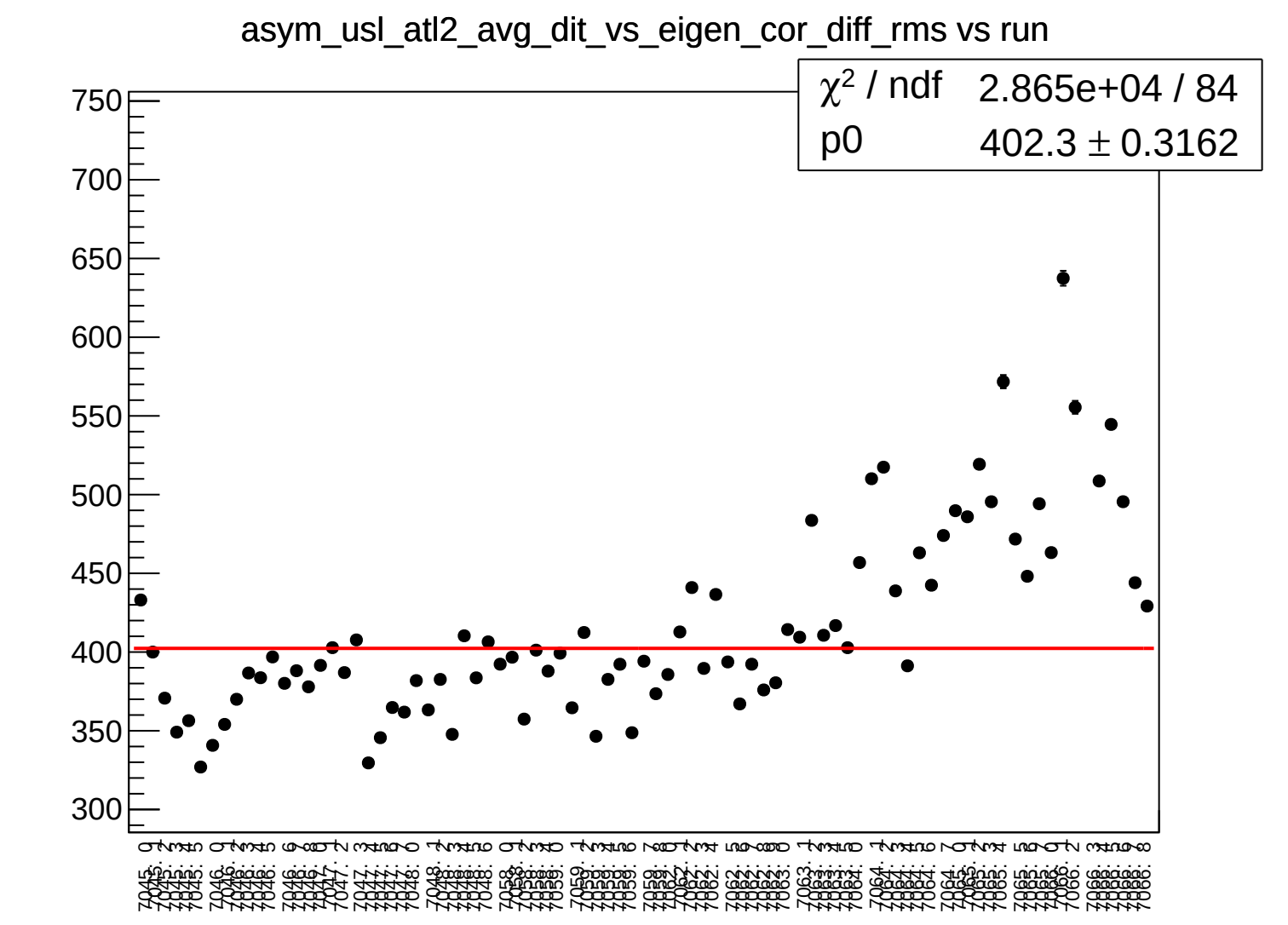

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 84
p0 8.499e−11 ± 1.075e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

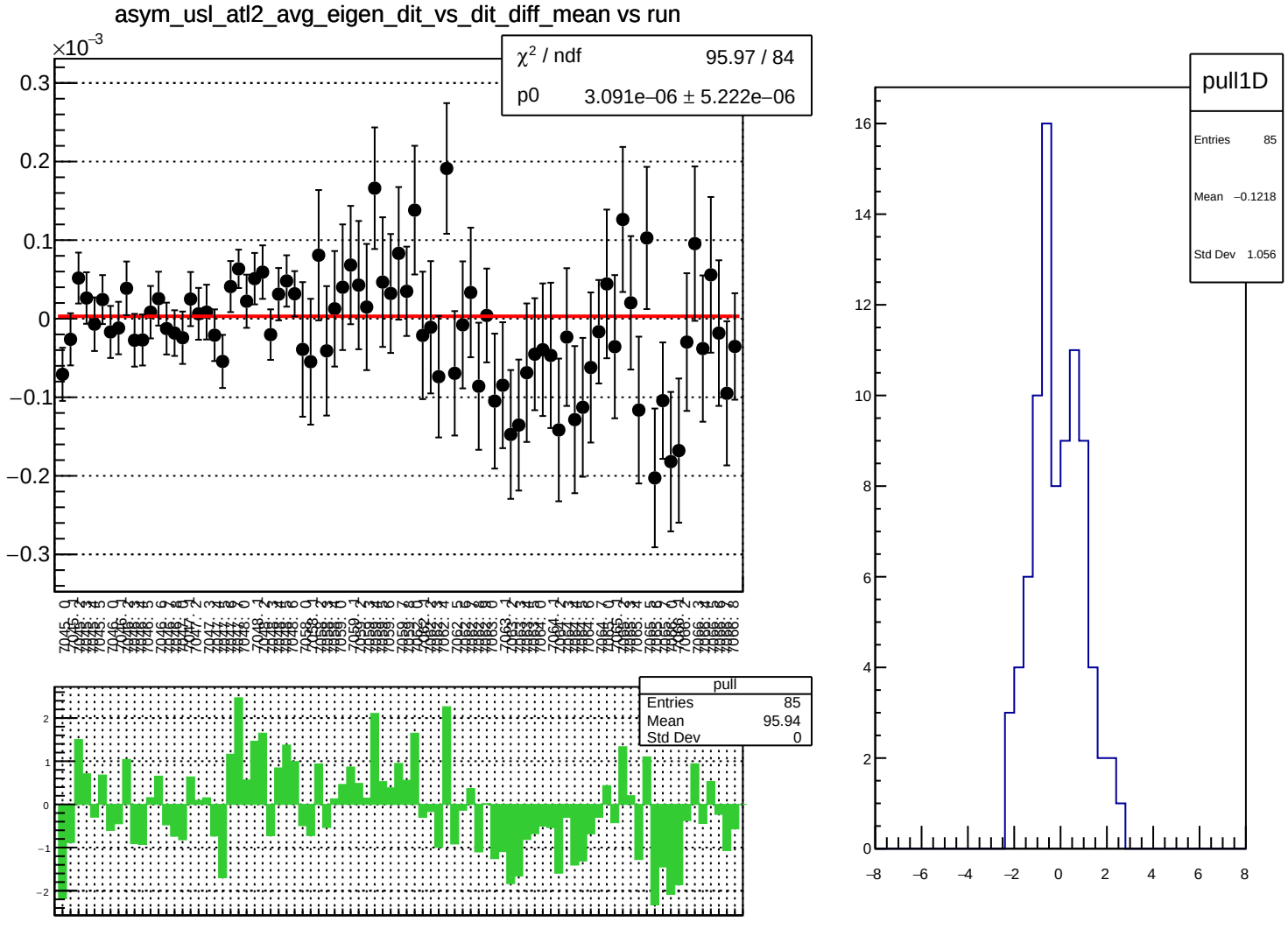

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.92 / 84
p0 −0.7173 ± 0.4472
pull
Entries 85
Mean 201.7
Std Dev 0

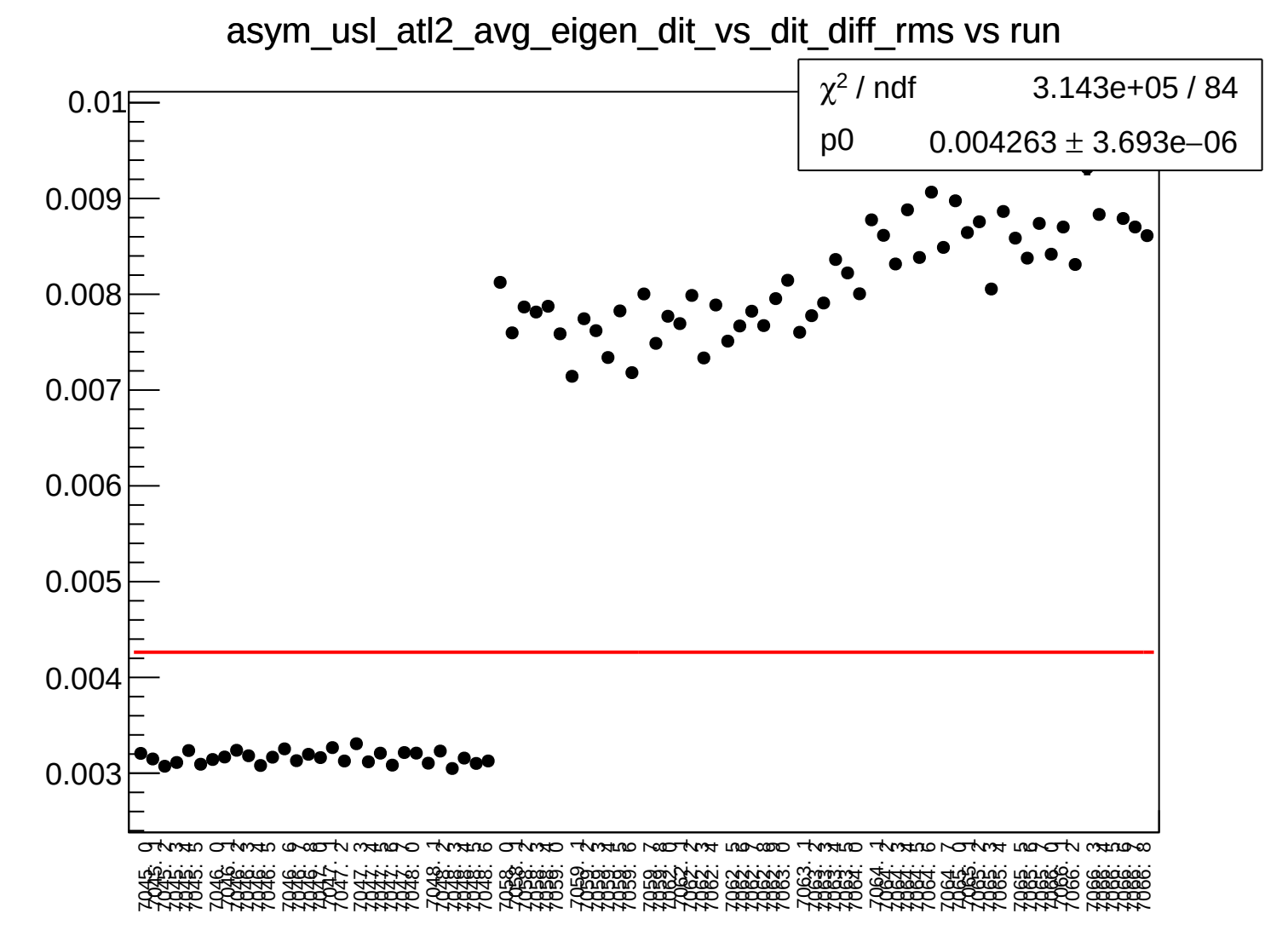

pull1D
Entries 85
Mean −0.0338
Std Dev 0.9569

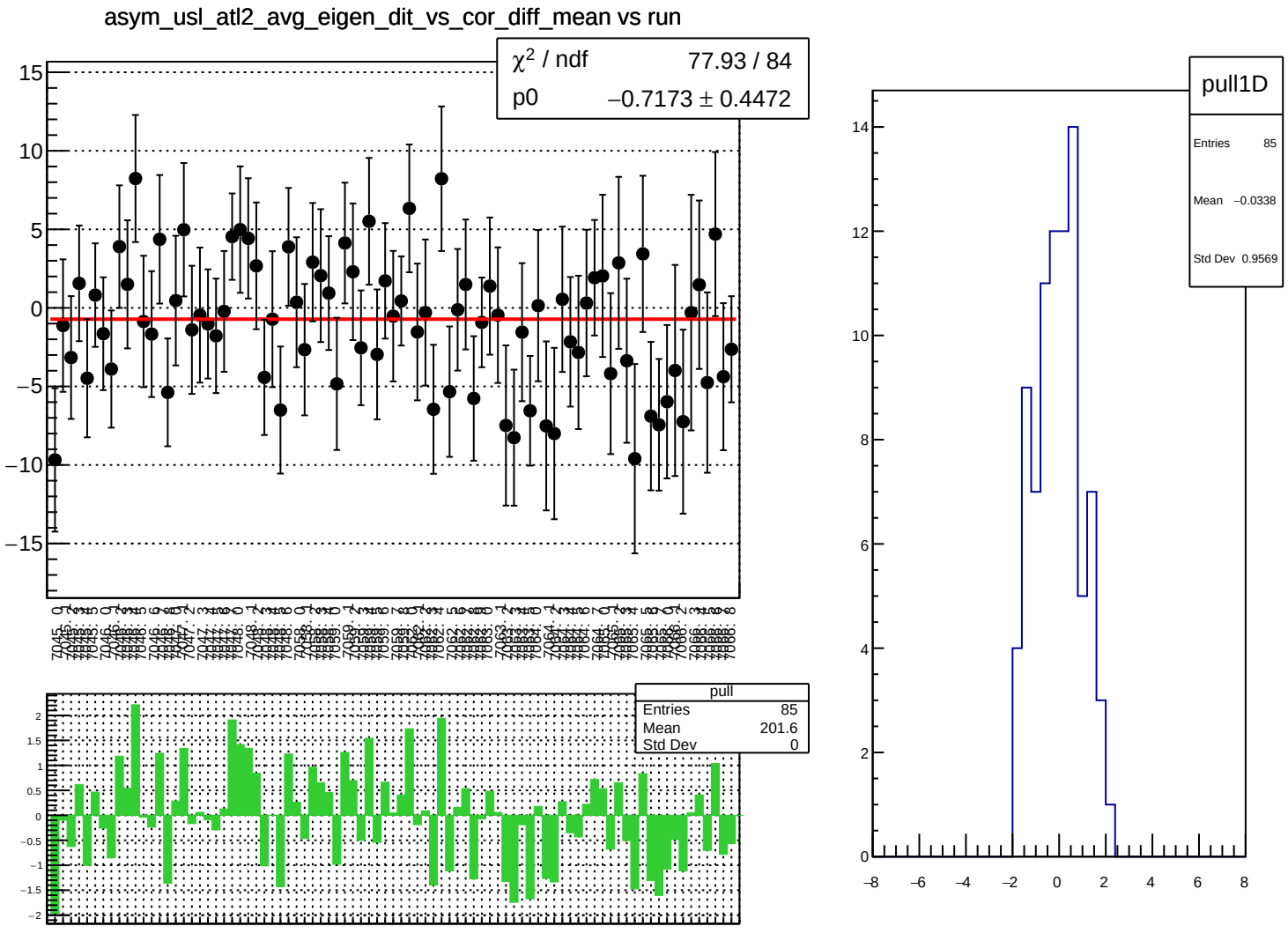

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.865e+04 / 84
p0 402.3 ± 0.3162
750
700
650
600
550
500
450
400
350
300

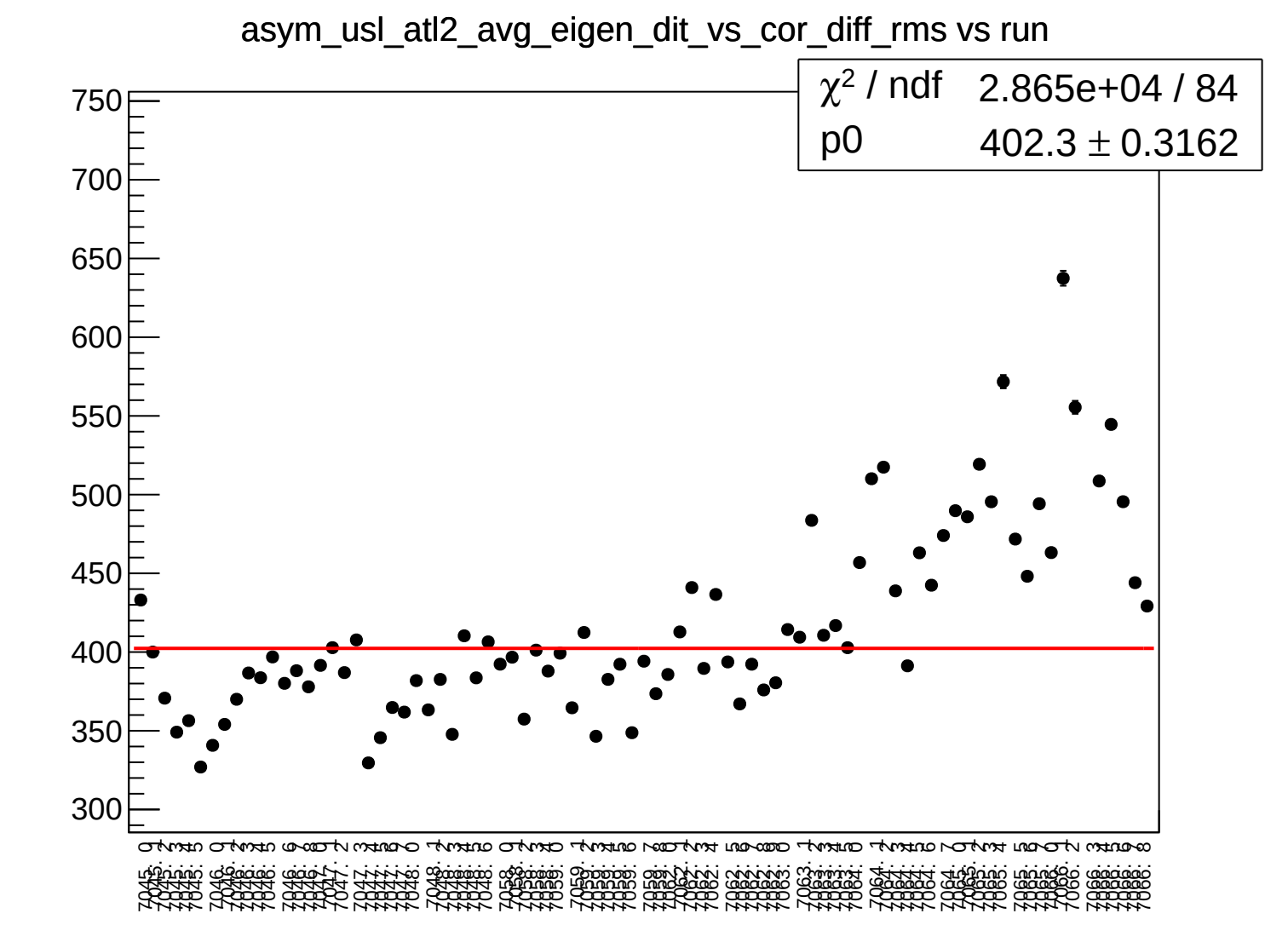

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.92 / 84
p0 −0.7173 ± 0.4472
pull
Entries 85
Mean 201.7
Std Dev 0
pull1D
Entries 85
Mean −0.0338
Std Dev 0.9569

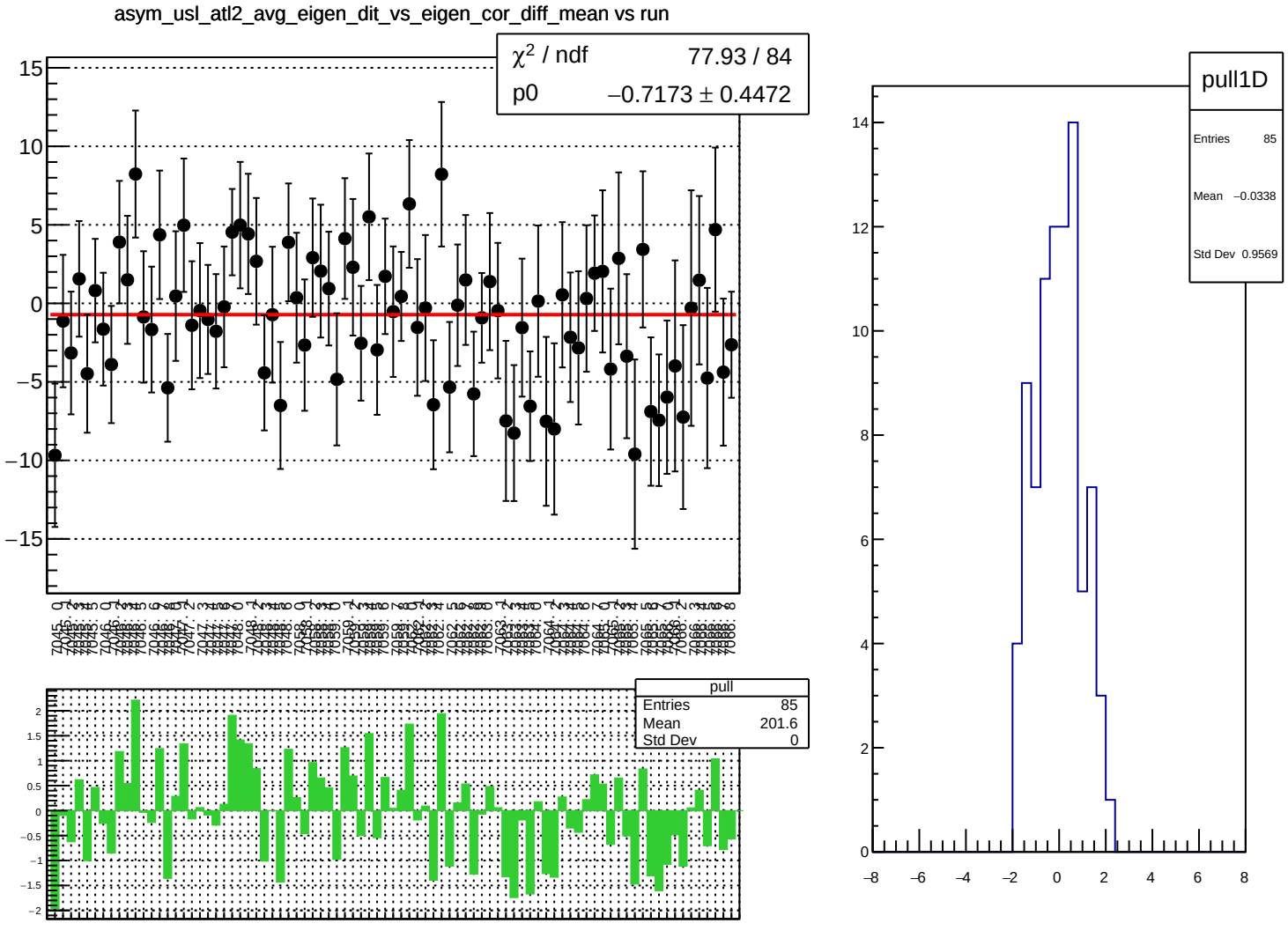

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.865e+04 / 84
p0 402.3 ± 0.3162
750
700
650
600
550
500
450
400
350
300

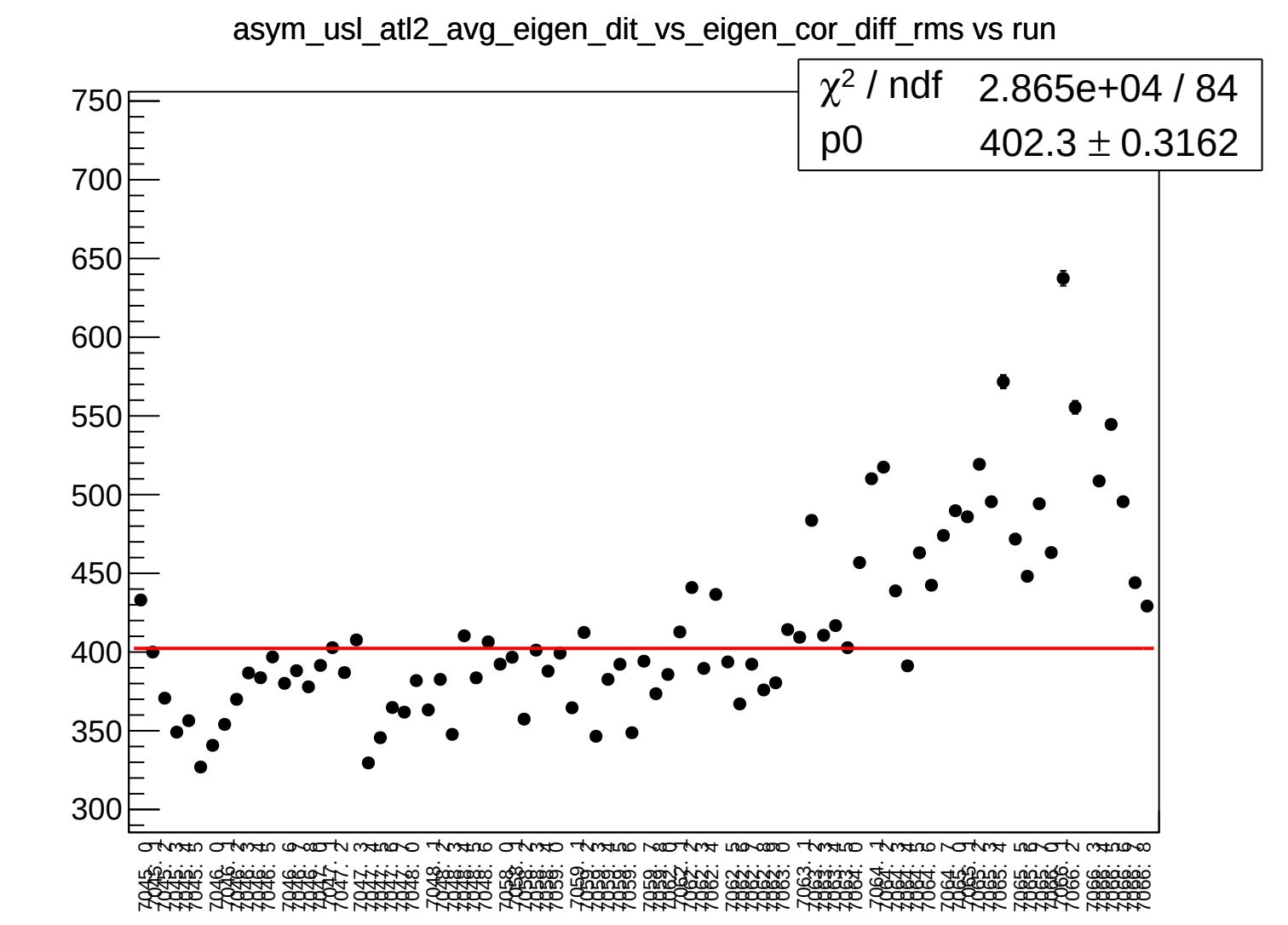

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.97 / 84
p0 3.091e−06 ± 5.222e−06
pull
Entries 85
Mean 95.94
Std Dev 0
pull1D
Entries 85
Mean −0.1218
Std Dev 1.056

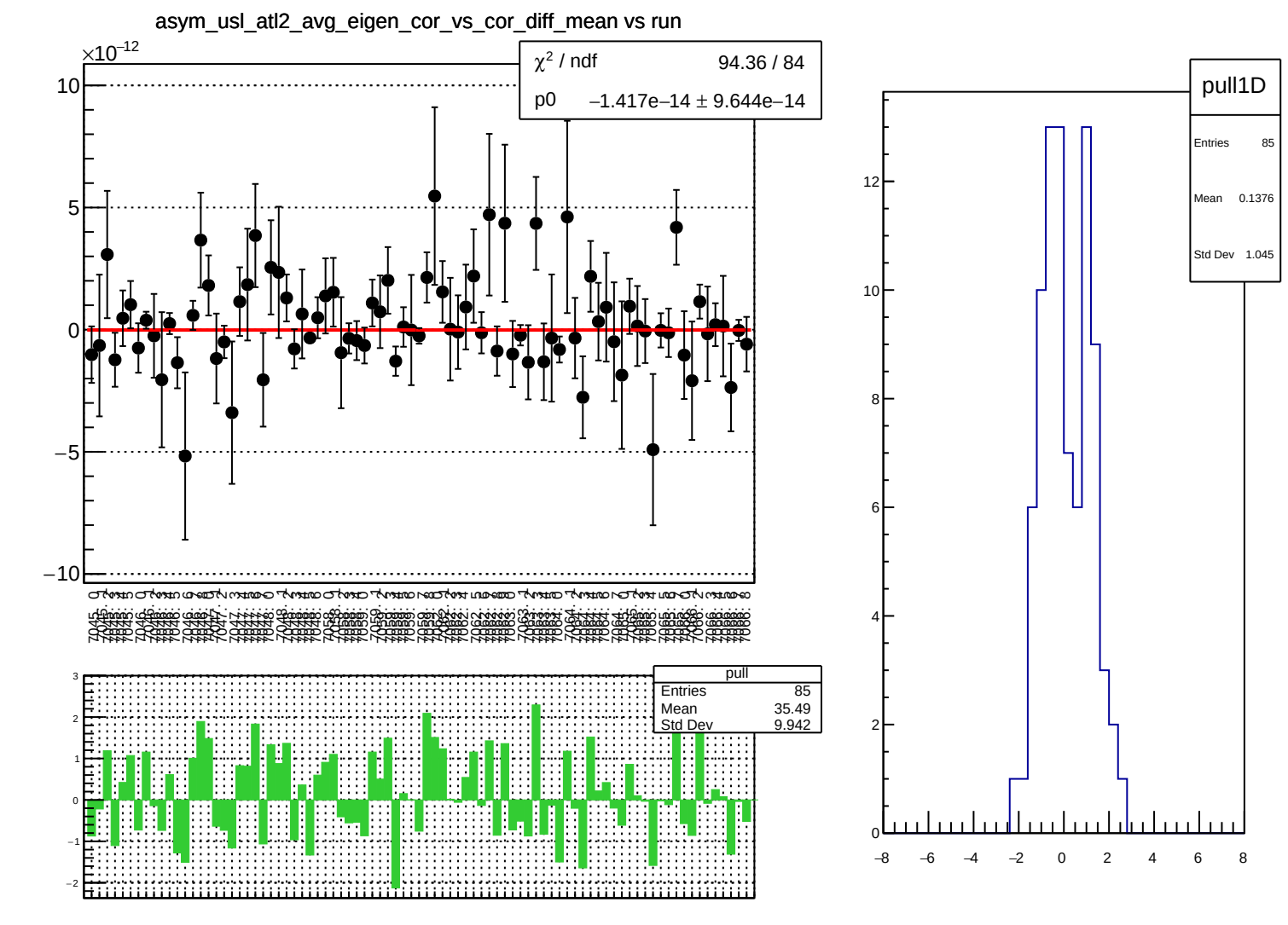

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.143e+05 / 84
p0 0.004263 ± 3.693e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

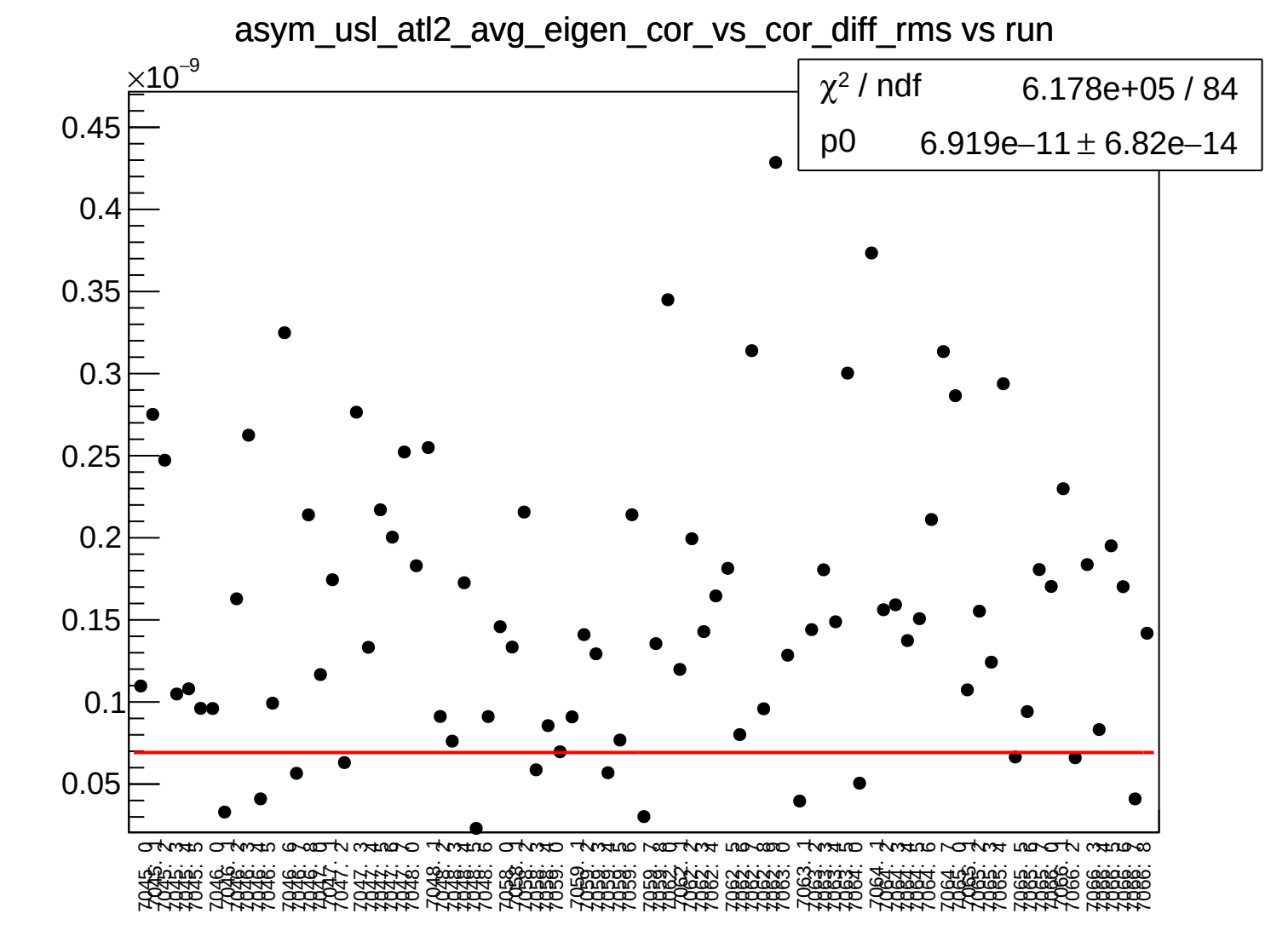

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.93 / 84
p0 −0.7173 ± 0.4472
pull
Entries 85
Mean 201.6
Std Dev 0
pull1D
Entries 85
Mean −0.0338
Std Dev 0.9569

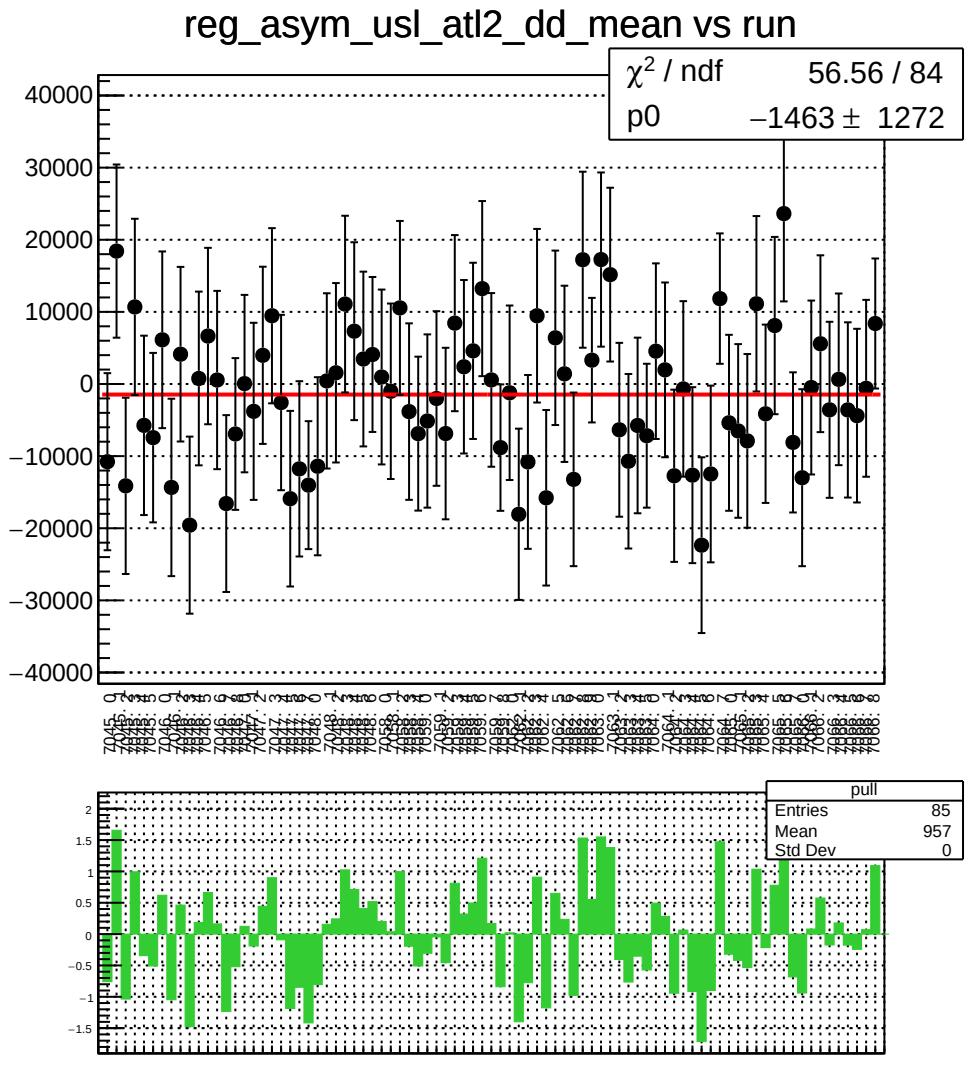

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.865e+04 / 84
p0 402.3 ± 0.3162
750
700
650
600
550
500
450
400
350
300

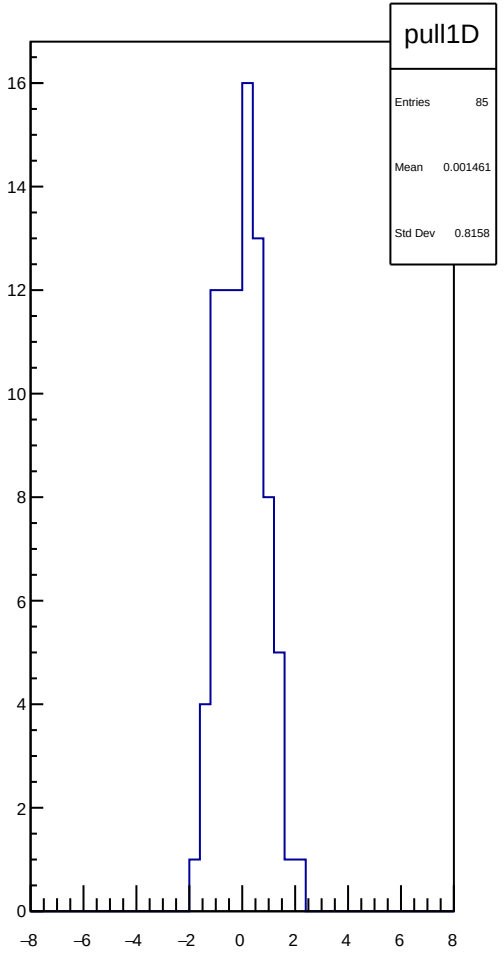

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.93 / 84
p0 −0.7173 ± 0.4472
pull
Entries 85
Mean 201.6
Std Dev 0
pull1D
Entries 85
Mean −0.0338
Std Dev 0.9569

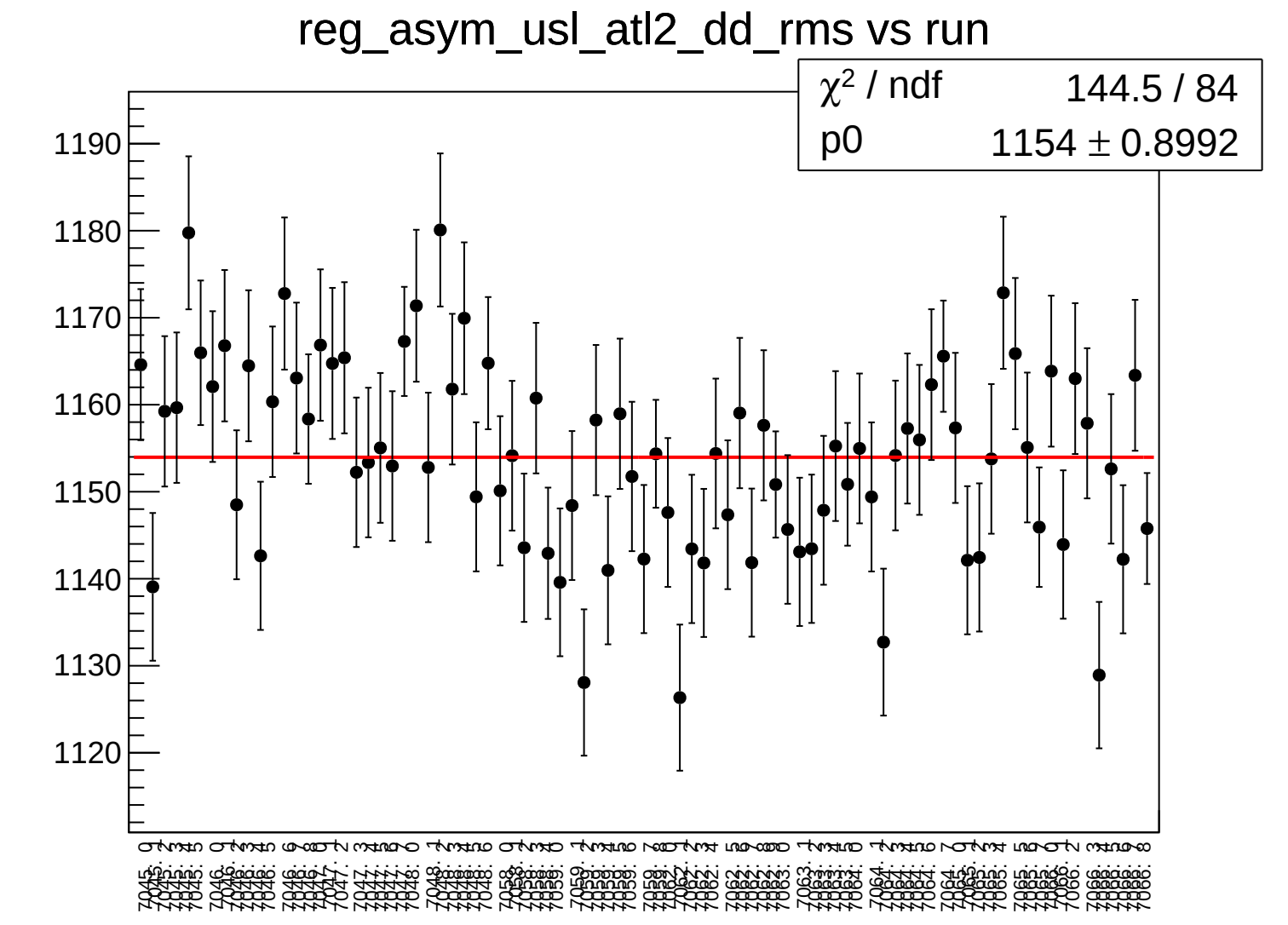

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.865e+04 / 84
p0 402.3 ± 0.3162
750
700
650
600
550
500
450
400
350
300

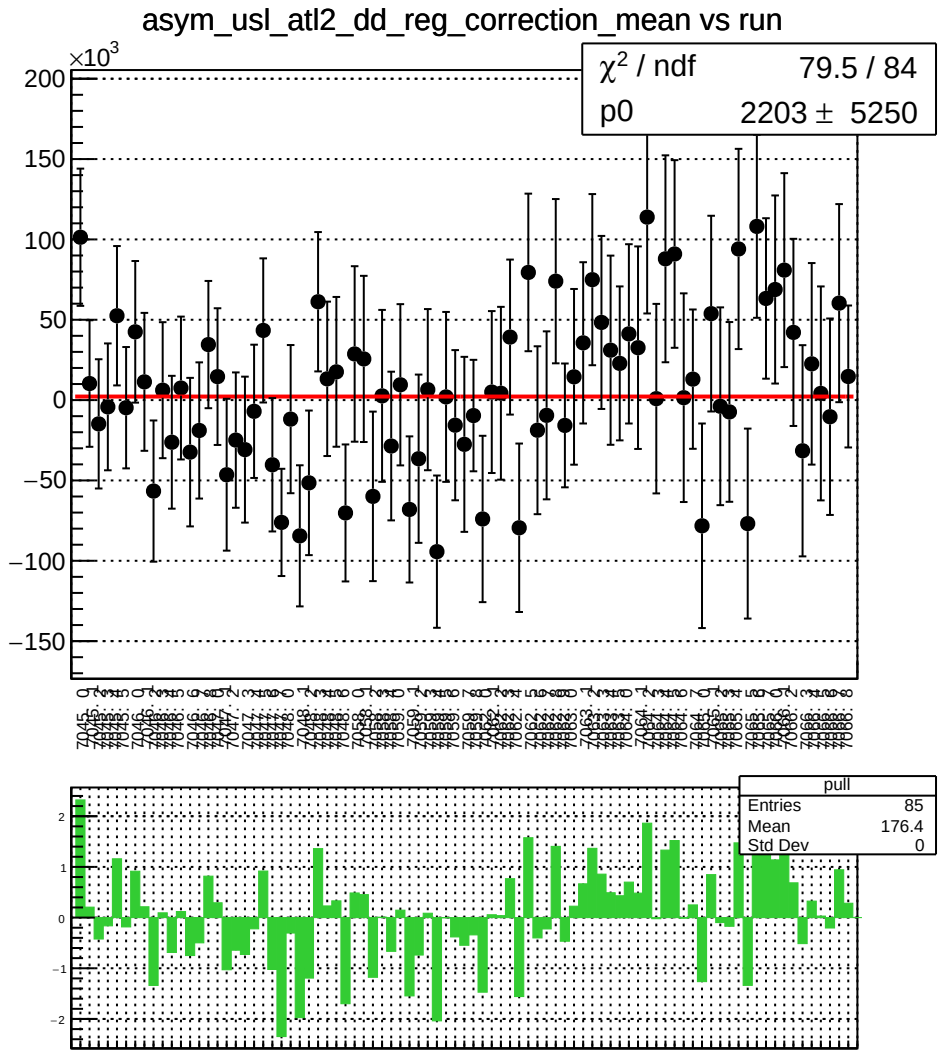

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.36 / 84
p0 −1.417e−14 ± 9.644e−14
pull
Entries 85
Mean 35.49
Std Dev 9.942
pull1D
Entries 85
Mean 0.1376
Std Dev 1.045

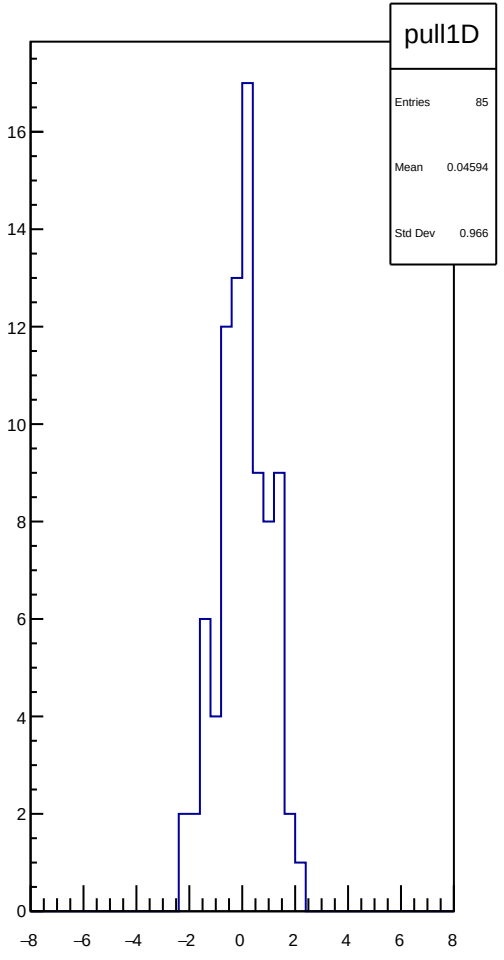

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.178e+05 / 84
p0 6.919e−11 ± 6.82e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

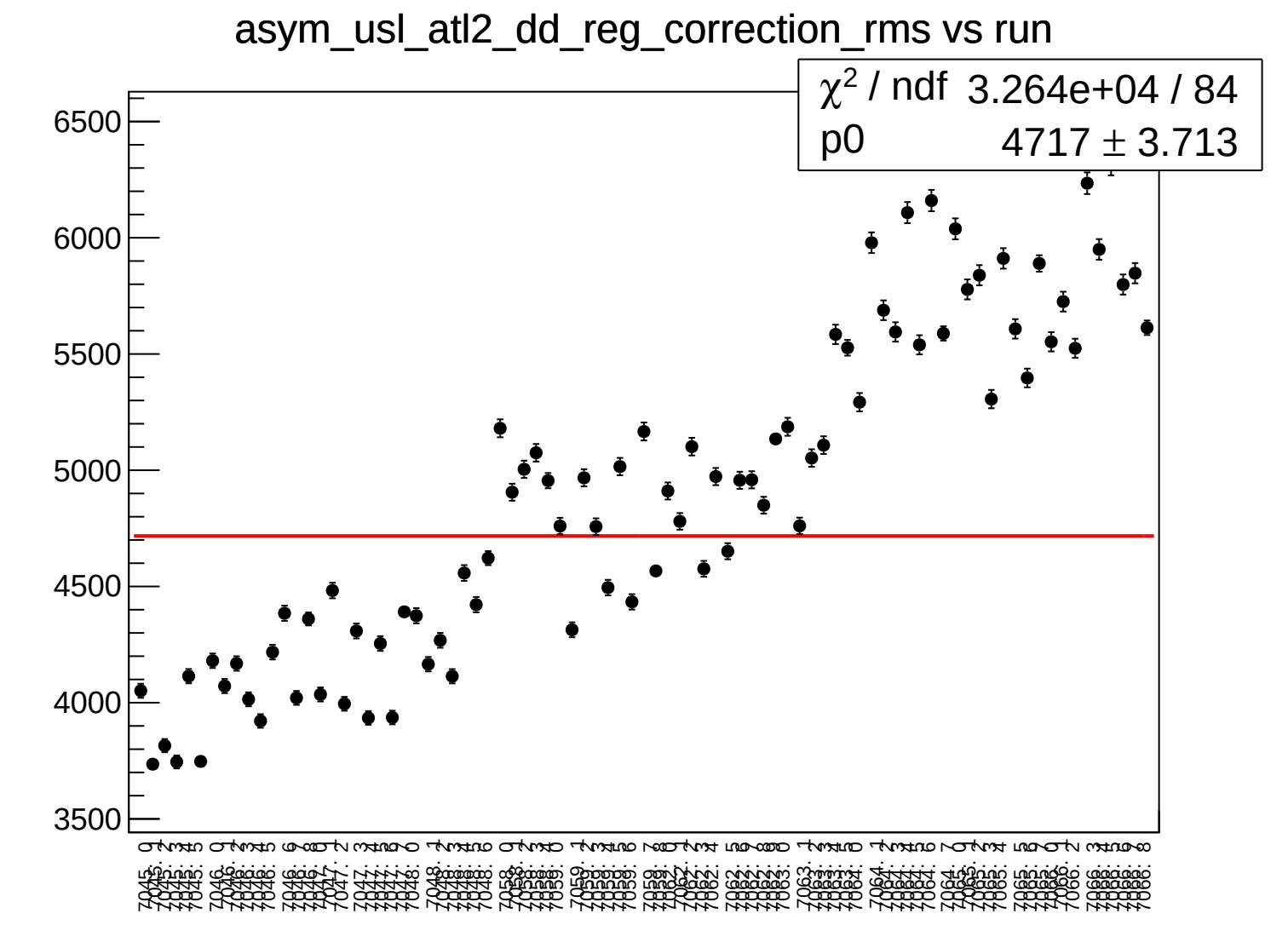

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 56.56 / 84
p0 −1463 ± 1272
pull
Entries 85
Mean 957
Std Dev 0

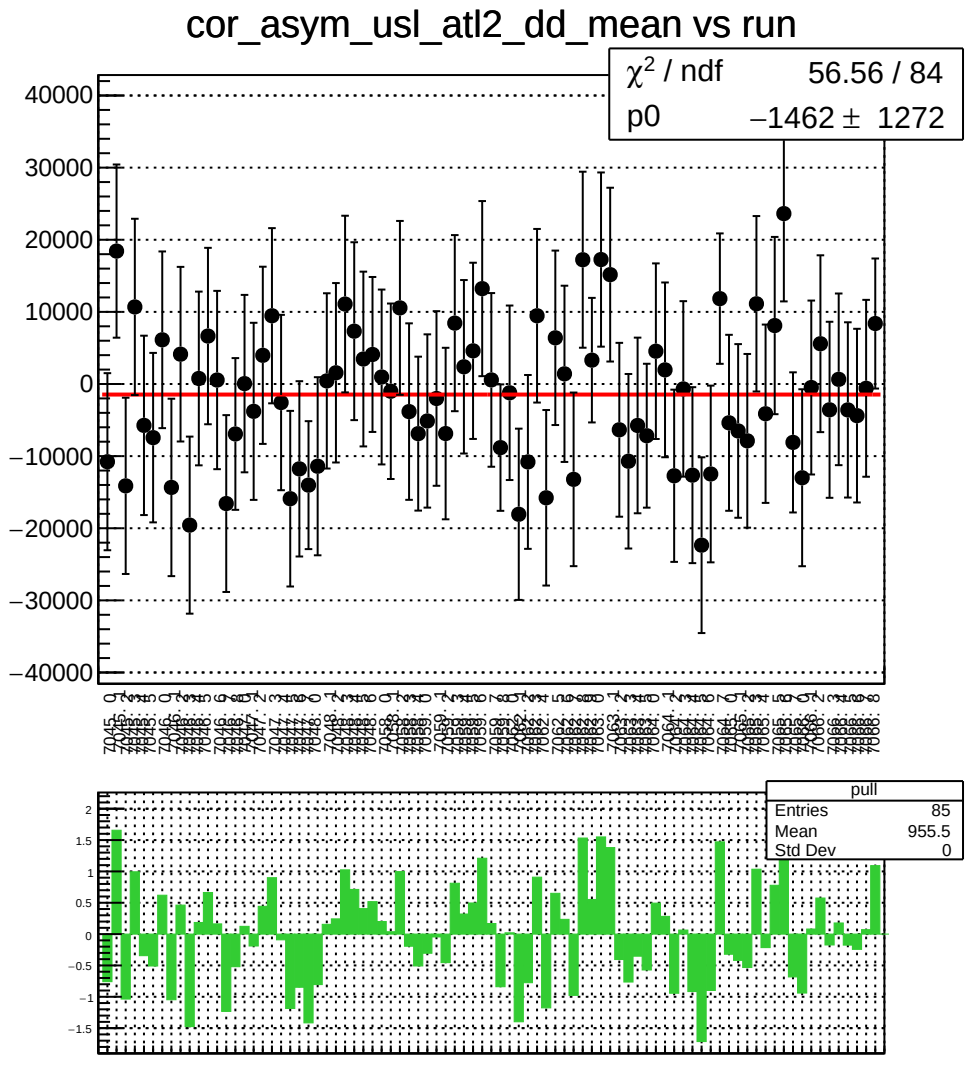

pull1D
Entries 85
Mean 0.001461
Std Dev 0.8158

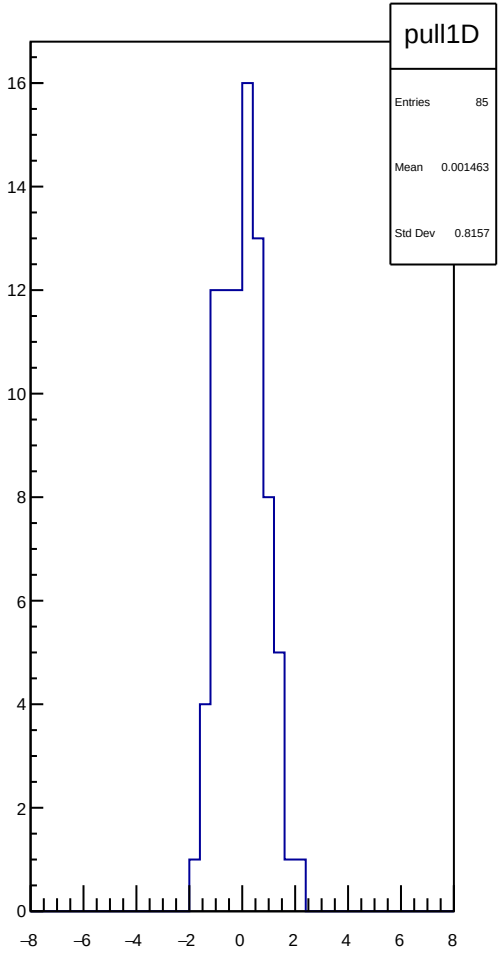

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 144.5 / 84
p0 1154 ± 0.8992
1190
1180
1170
1160
1150
1140
1130
1120

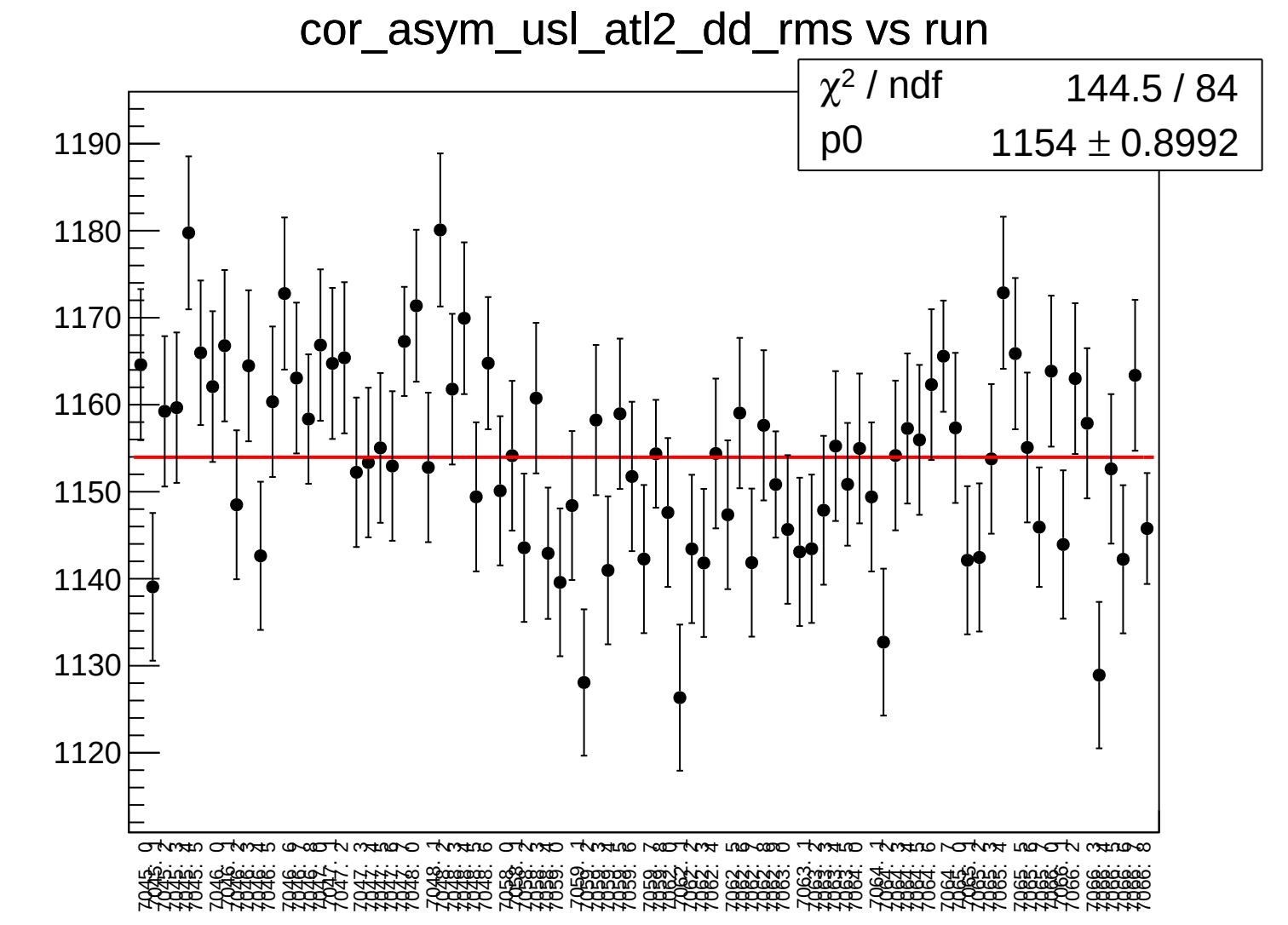

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.5 / 84
p0 2203 ± 5250
pull
Entries 85
Mean 176.4
Std Dev 0

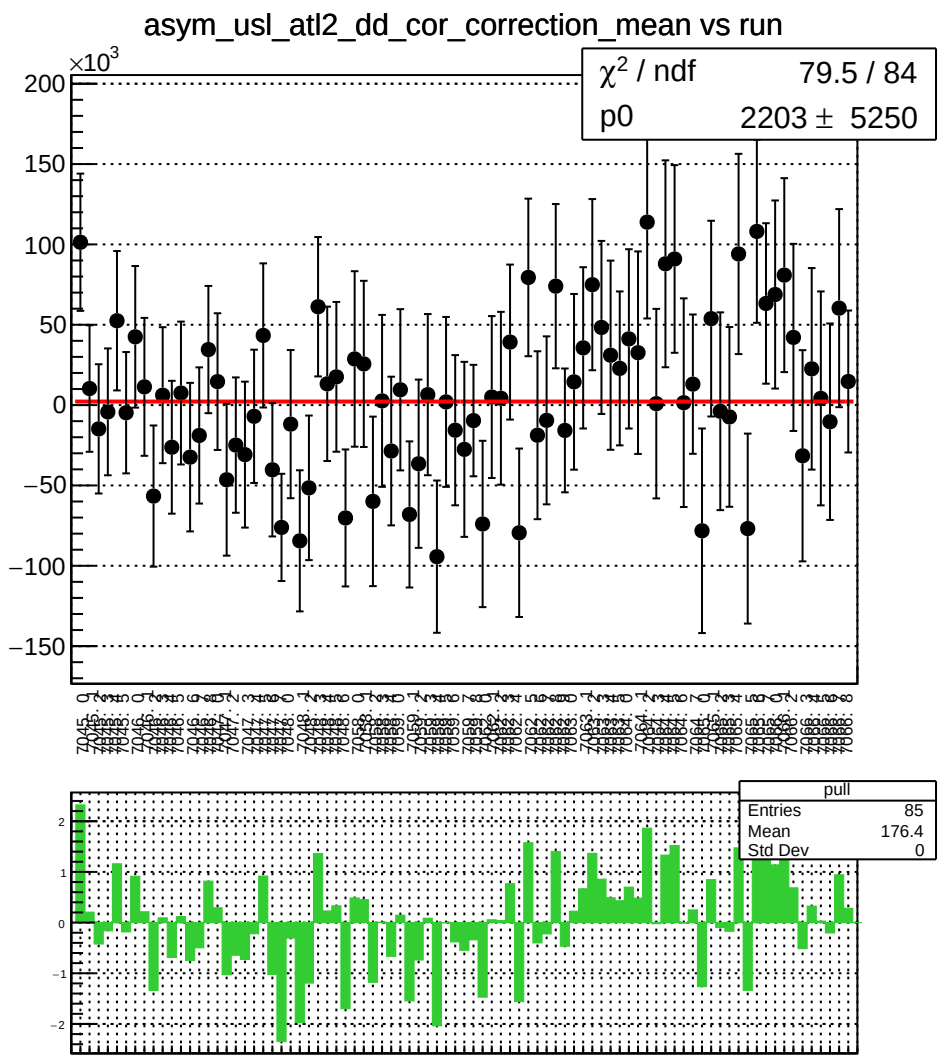

pull1D
Entries 85
Mean 0.04594
Std Dev 0.966

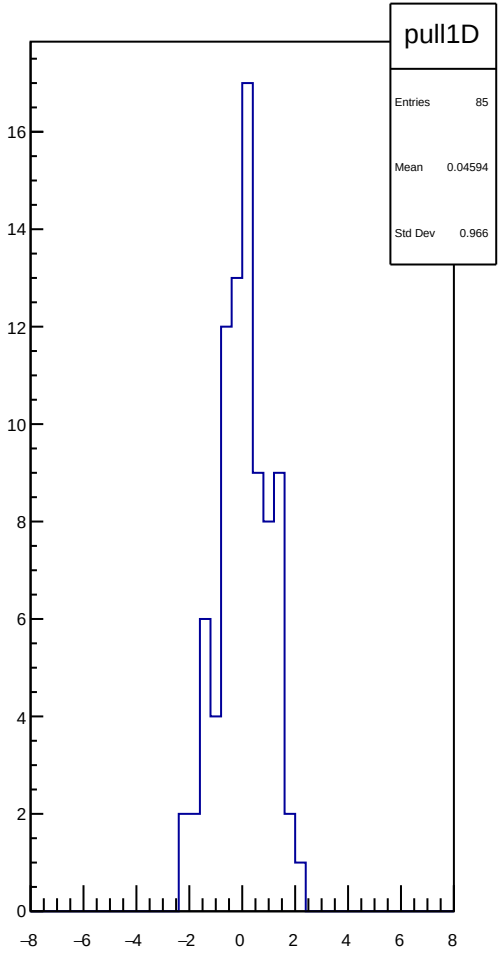

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3.264e+04 / 84
p0 4717 ± 3.713
6500
6000
5500
5000
4500
4000
3500

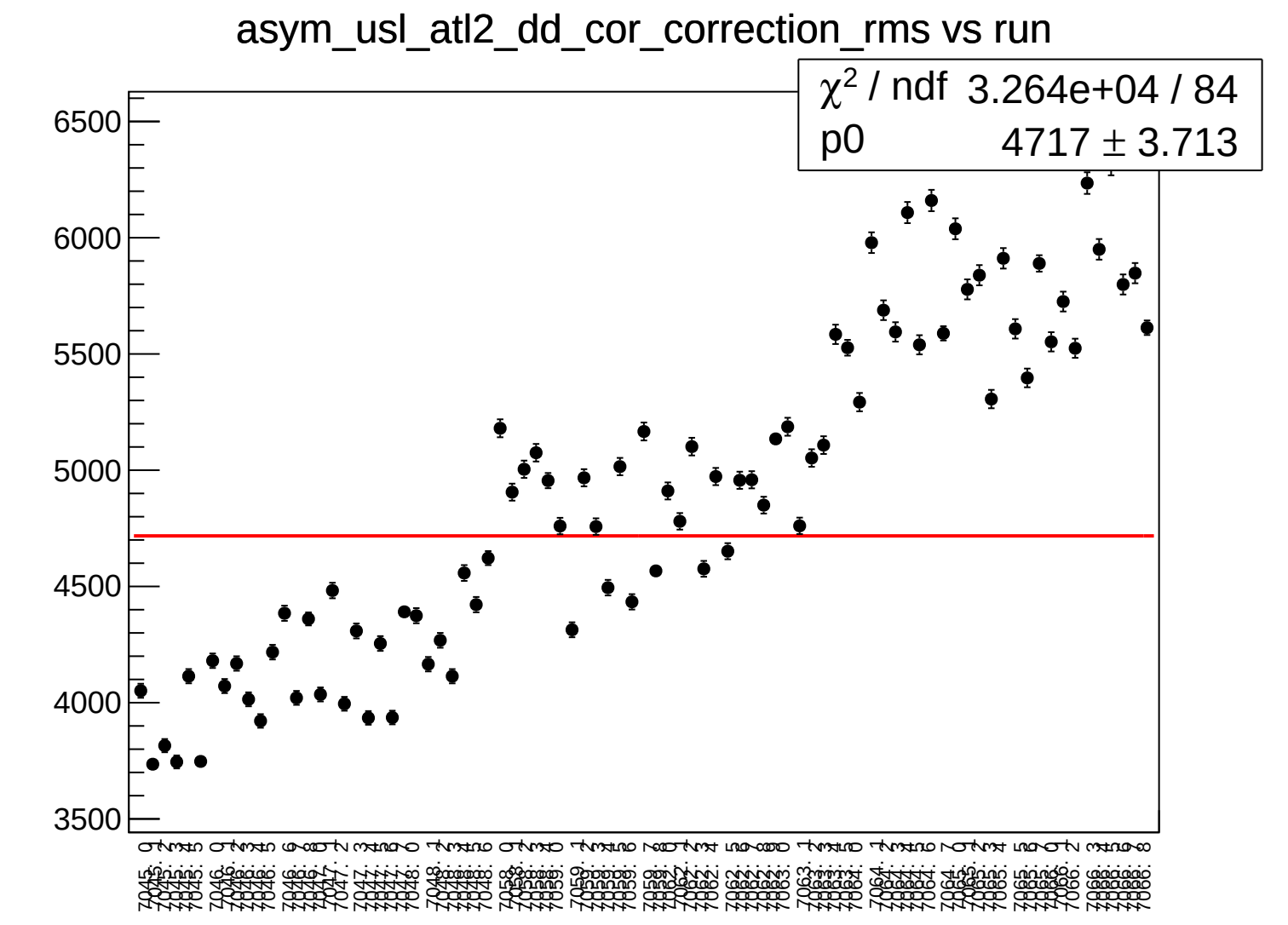

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 56.56 / 84
p0 −1462 ± 1272
pull
Entries 85
Mean 955.5
Std Dev 0

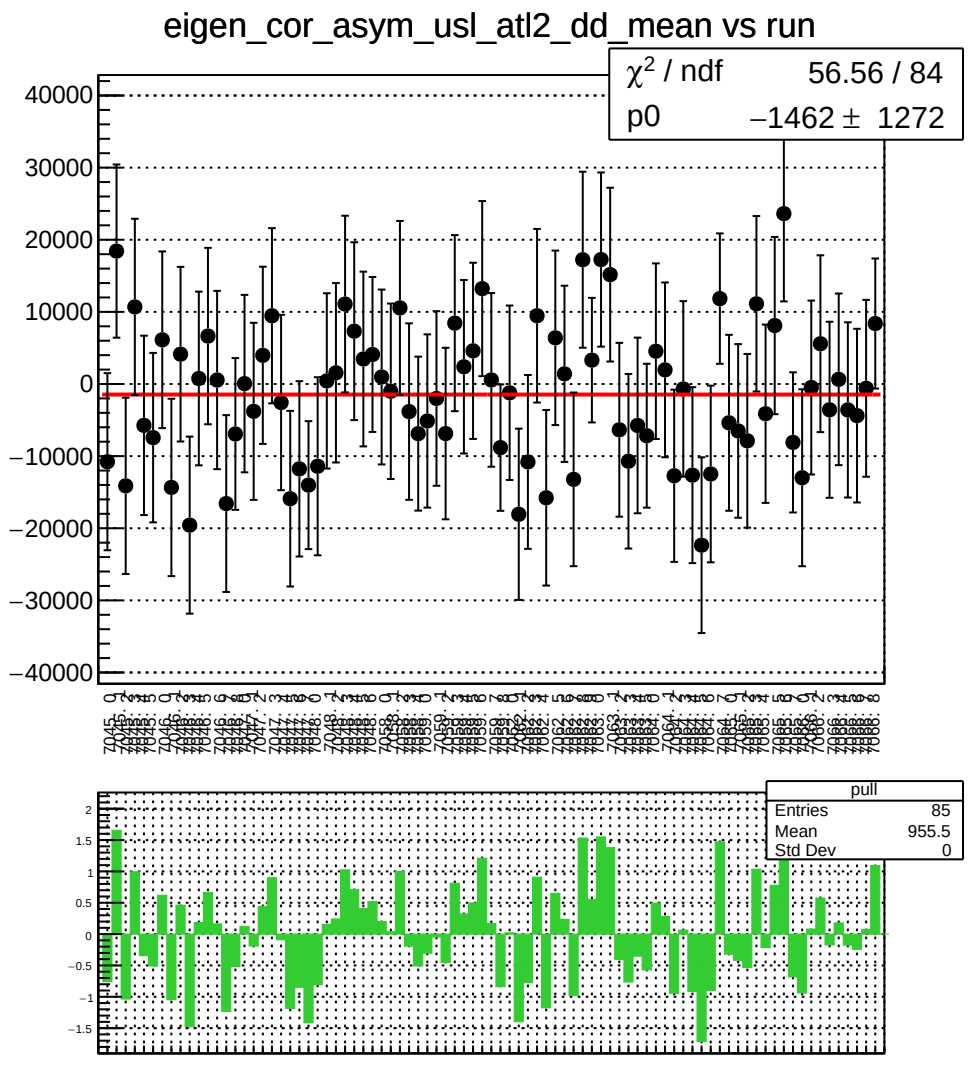

pull1D
Entries 85
Mean 0.001463
Std Dev 0.8157

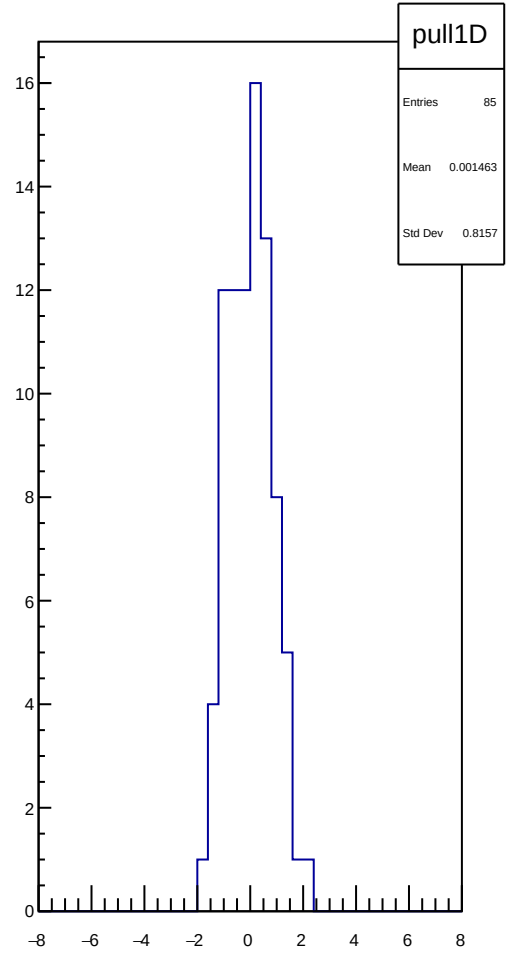

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 144.5 / 84
p0 1154 ± 0.8992
1190
1180
1170
1160
1150
1140
1130
1120

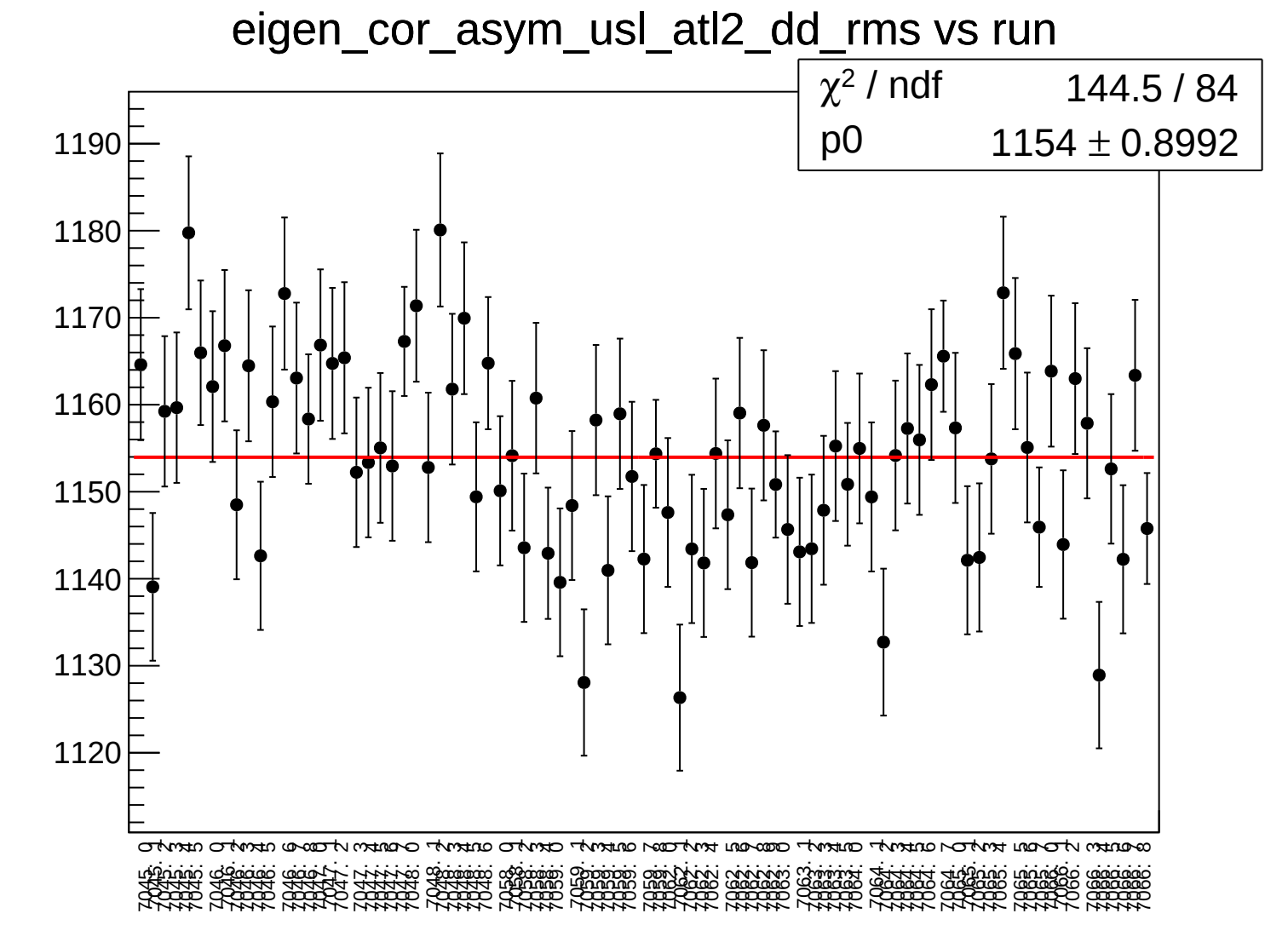

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.5 / 84
p0 2203 ± 5250
pull
Entries 85
Mean 176.4
Std Dev 0

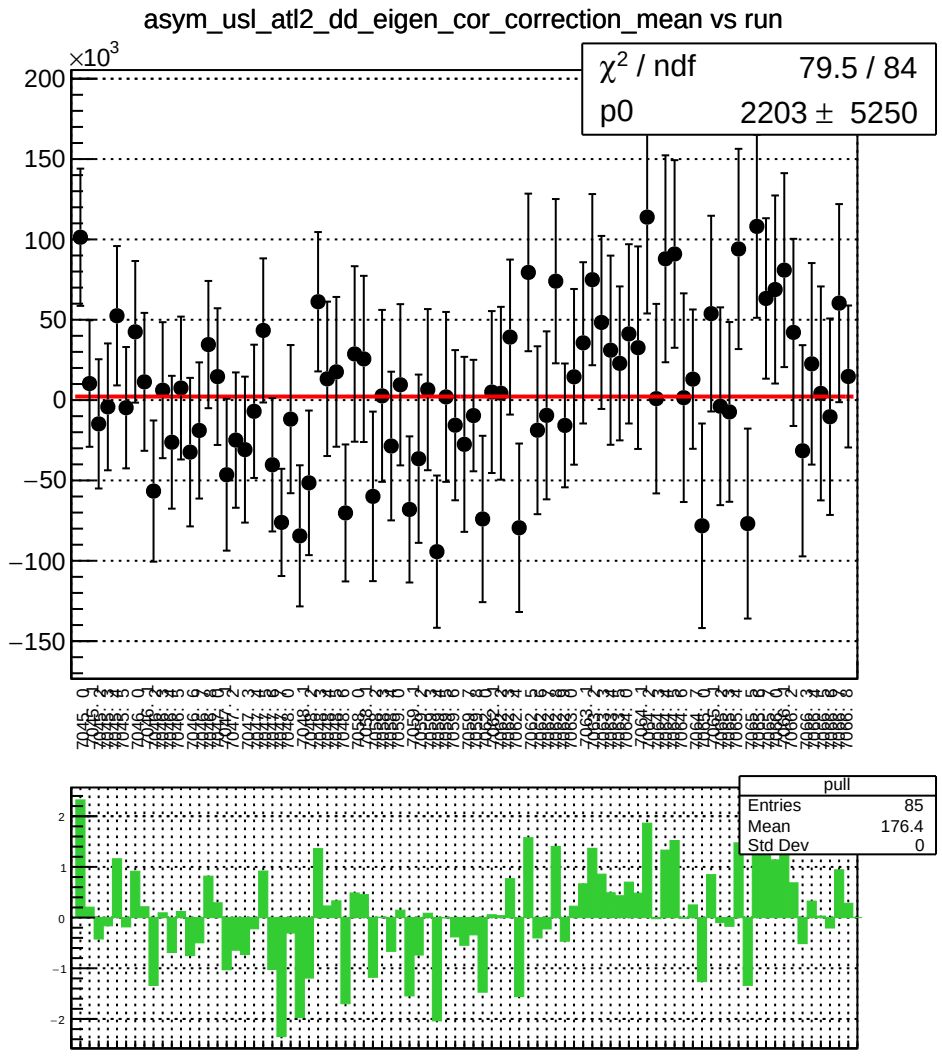

pull1D
Entries 85
Mean 0.04594
Std Dev 0.966

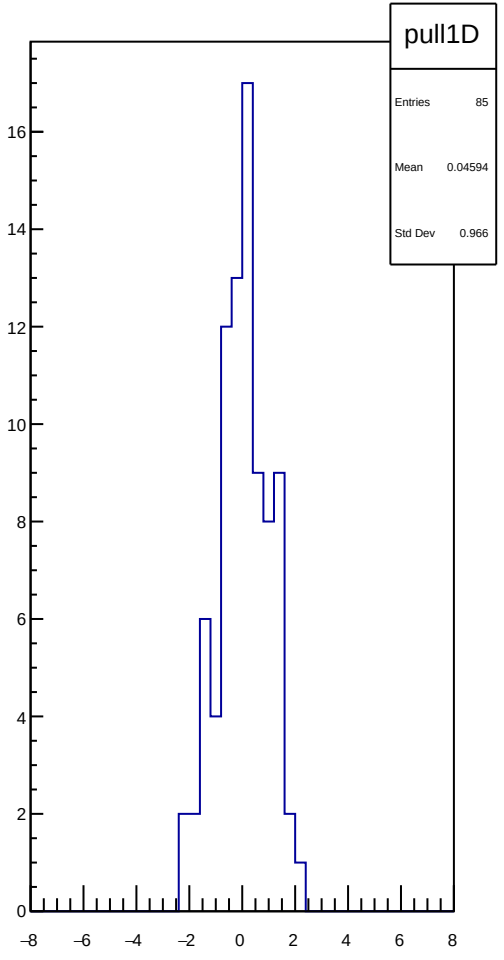

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3.264e+04 / 84
p0 4717 ± 3.713
6500
6000
5500
5000
4500
4000
3500

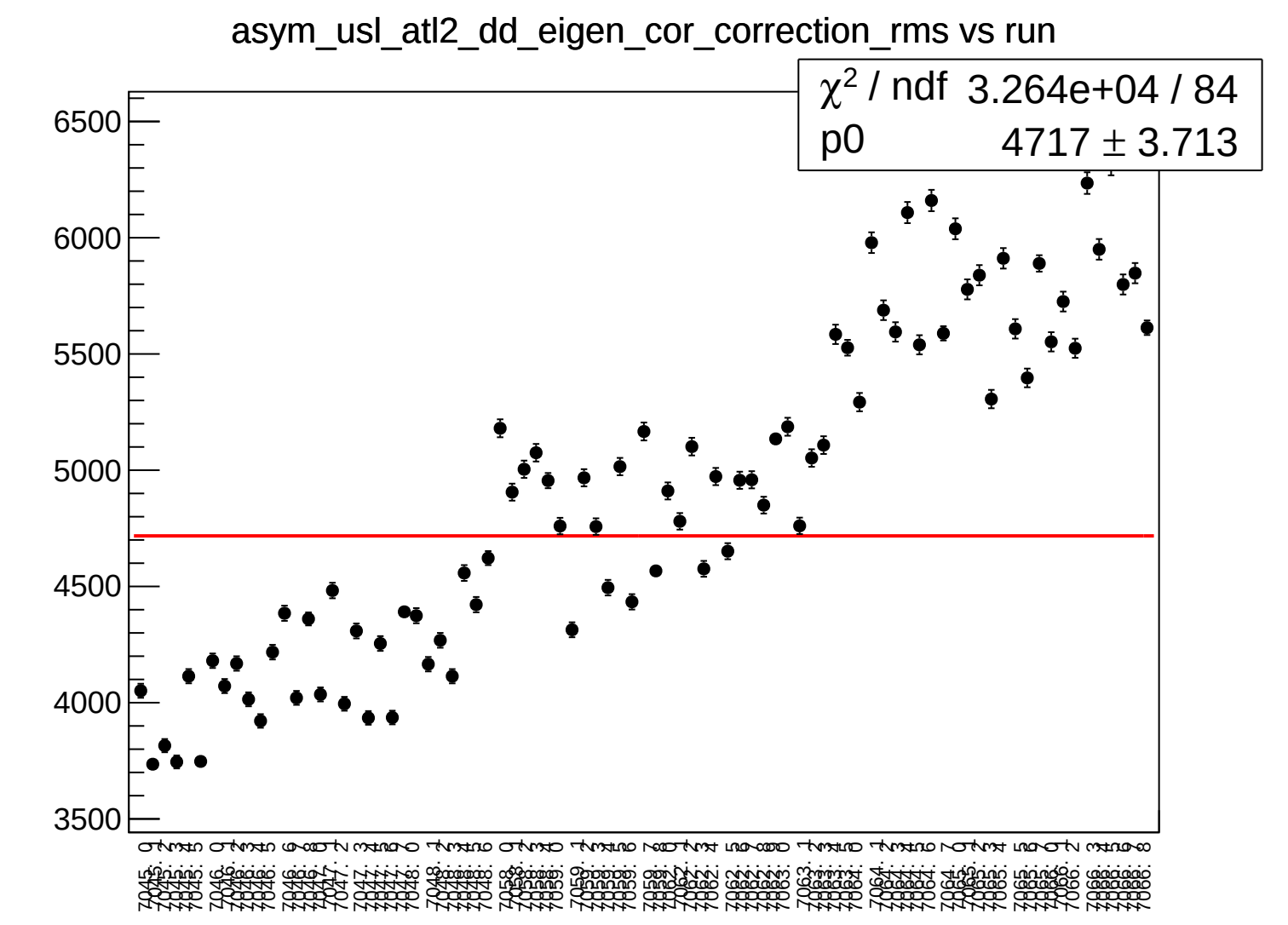

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 56.56 / 84
p0 −1462 ± 1272
pull
Entries 85
Mean 955.5
Std Dev 0

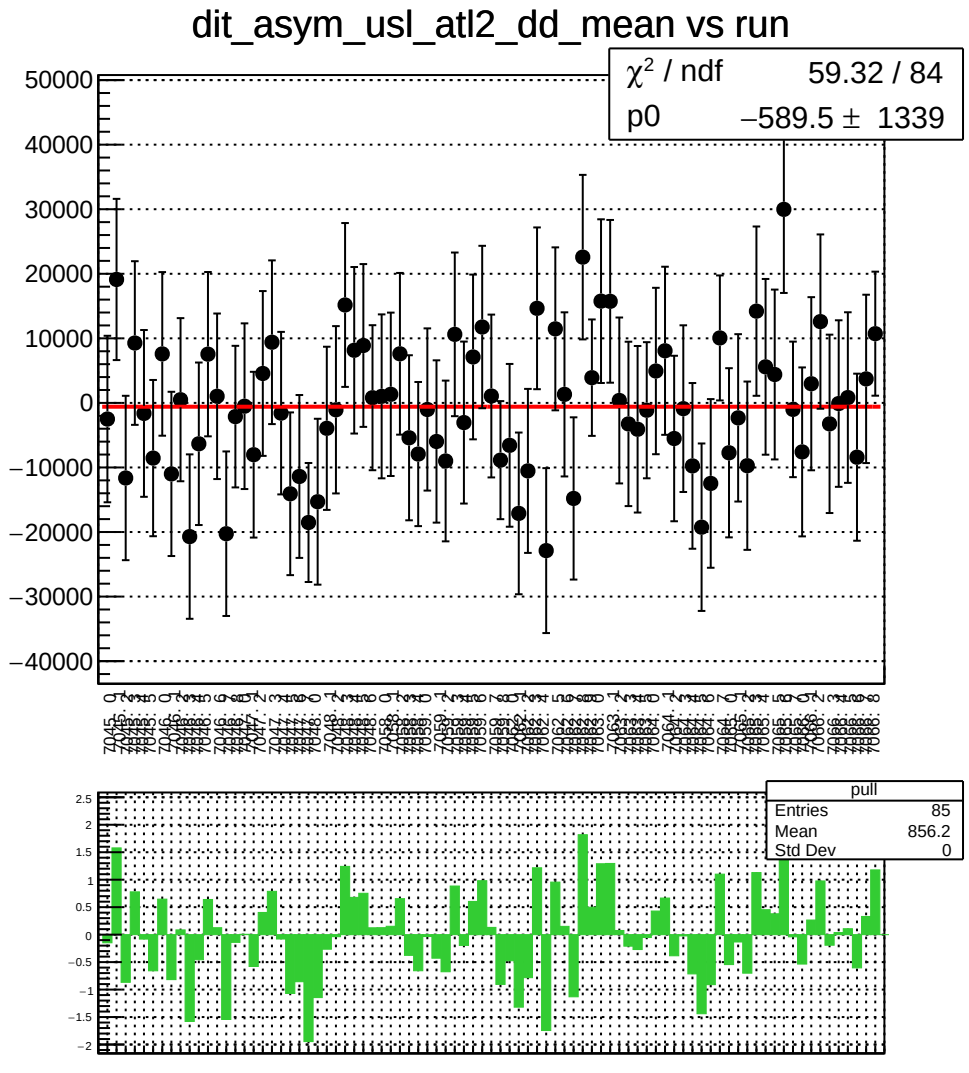

pull1D
Entries 85
Mean 0.001463
Std Dev 0.8157

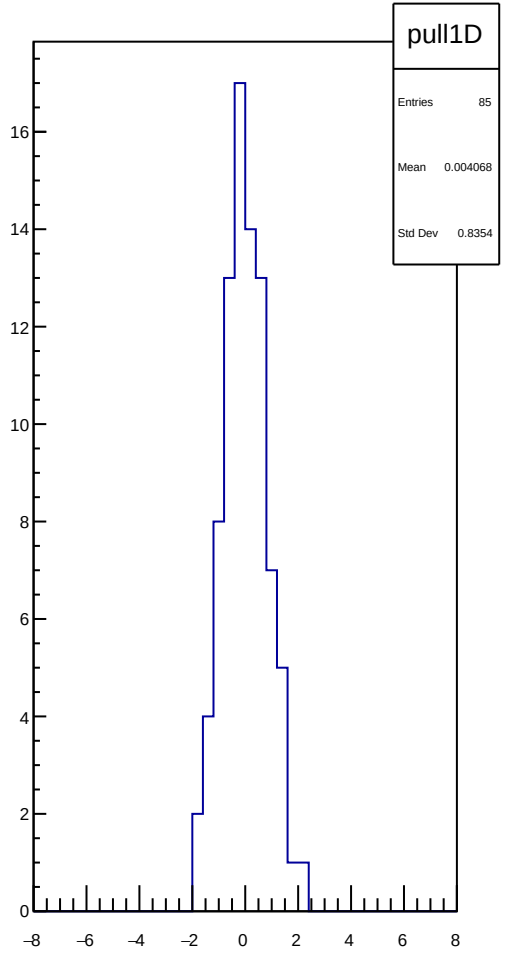

eigen_cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 144.5 / 84
p0 1154 ± 0.8992
1190
1180
1170
1160
1150
1140
1130
1120

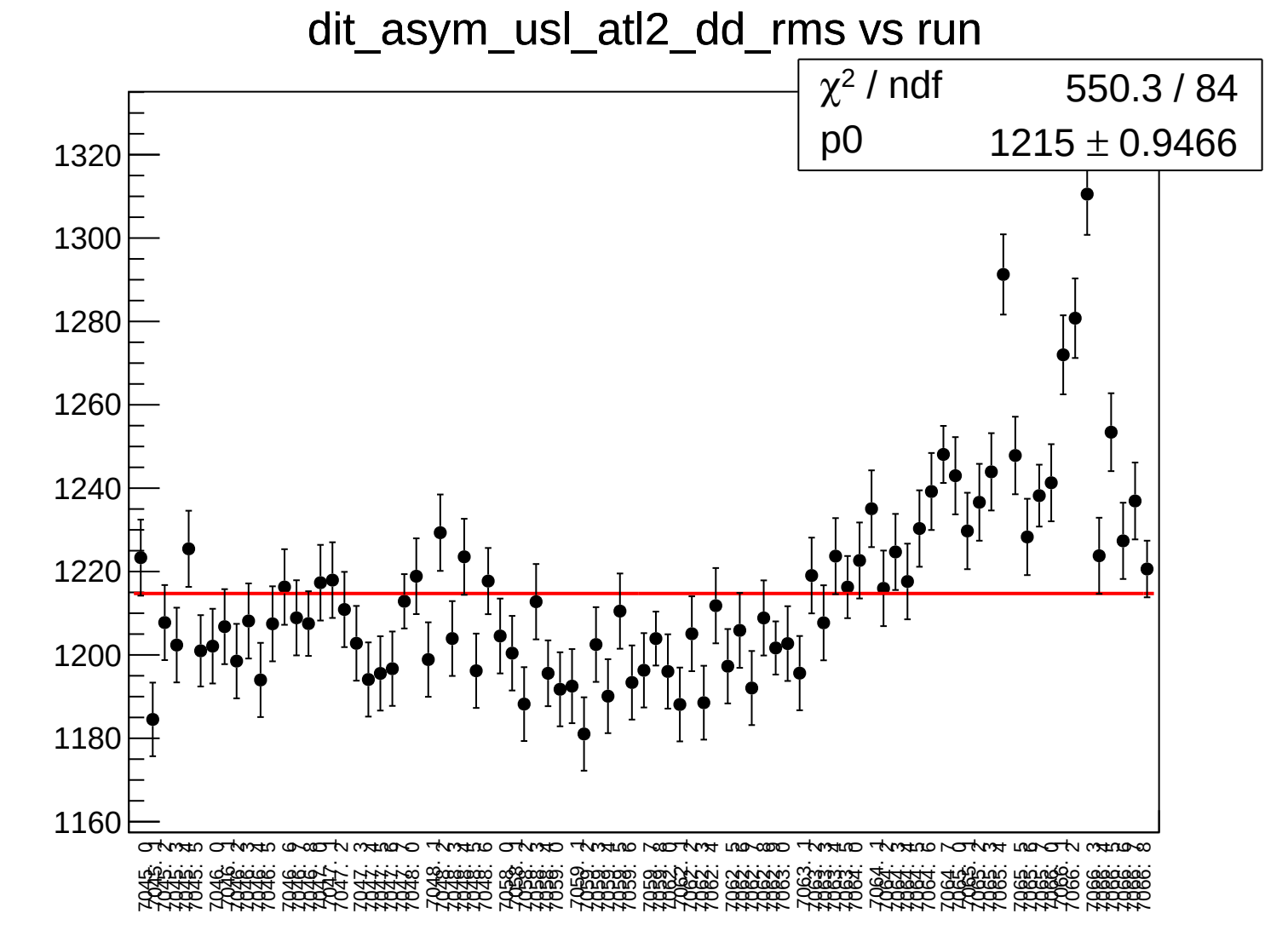

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.5 / 84
p0 2203 ± 5250
pull
Entries 85
Mean 176.4
Std Dev 0

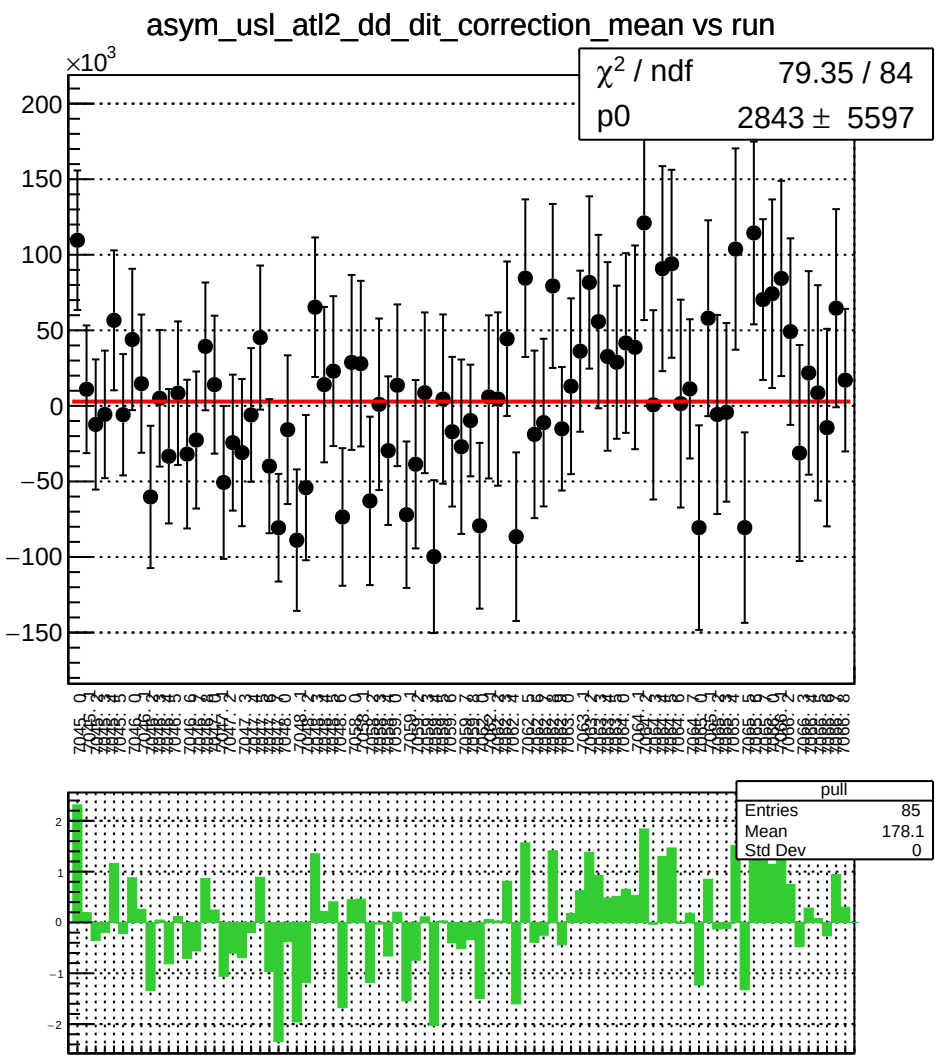

pull1D
Entries 85
Mean 0.04594
Std Dev 0.966

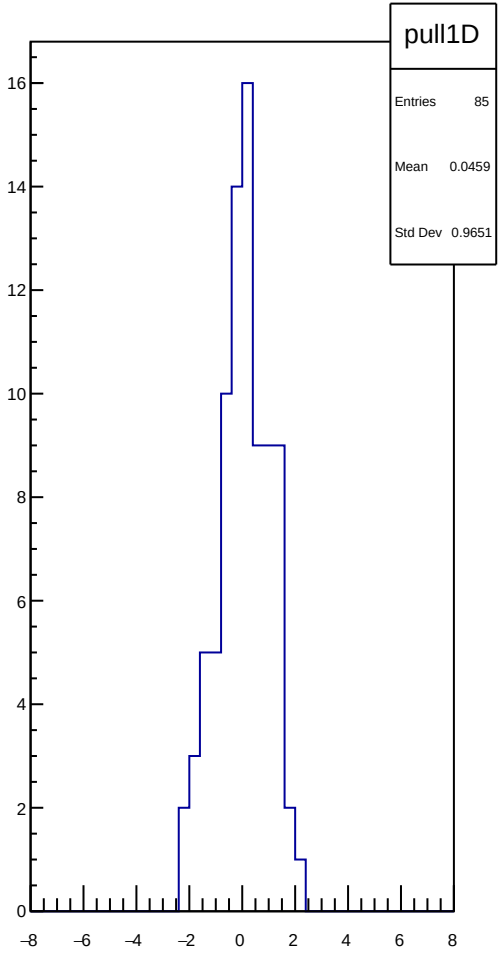

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.264e+04 / 84
p0 4717 ± 3.713
6500
6000
5500
5000
4500
4000
3500

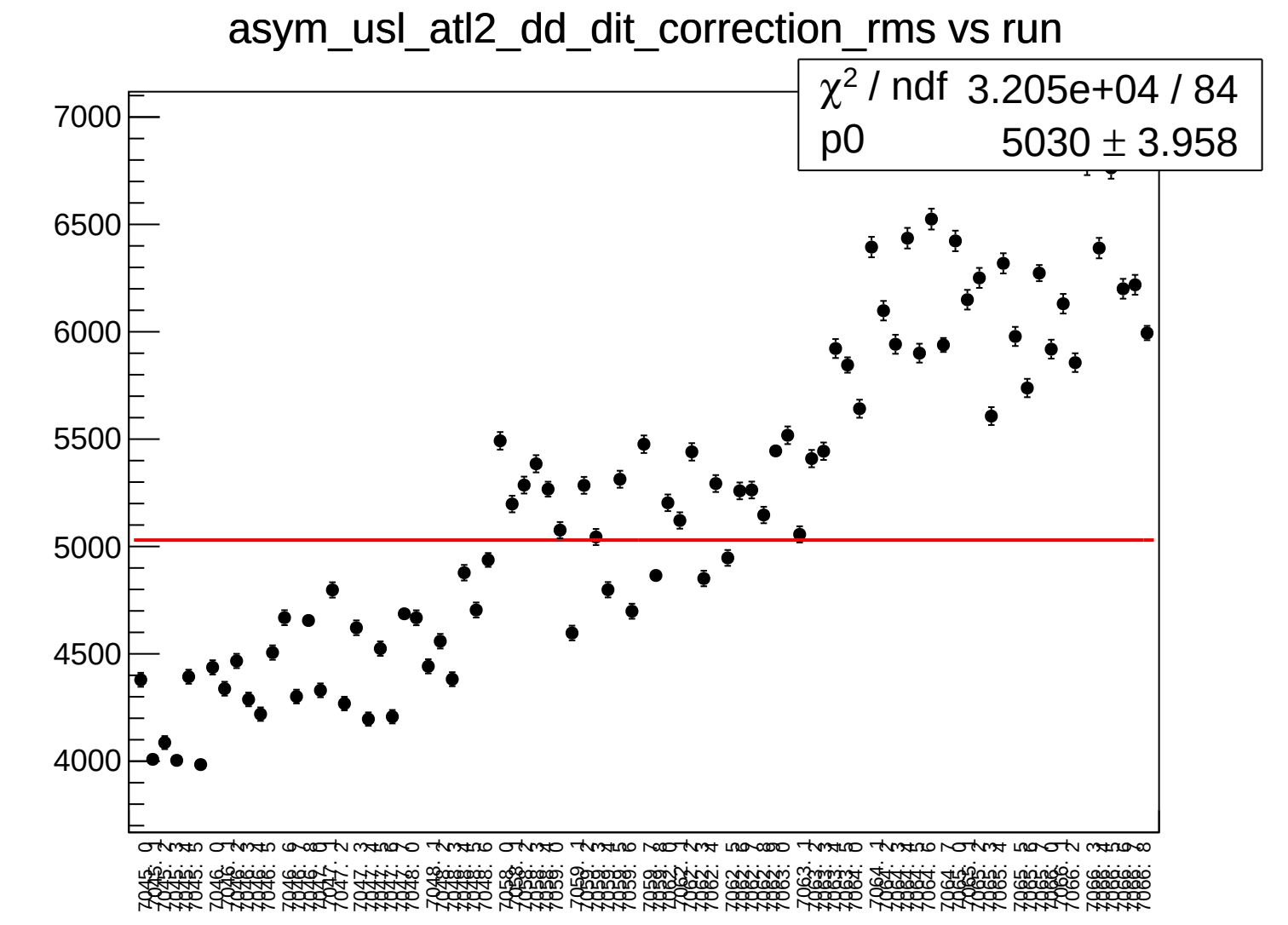

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 59.32 / 84
p0 −589.5 ± 1339
pull
Entries 85
Mean 856.2
Std Dev 0

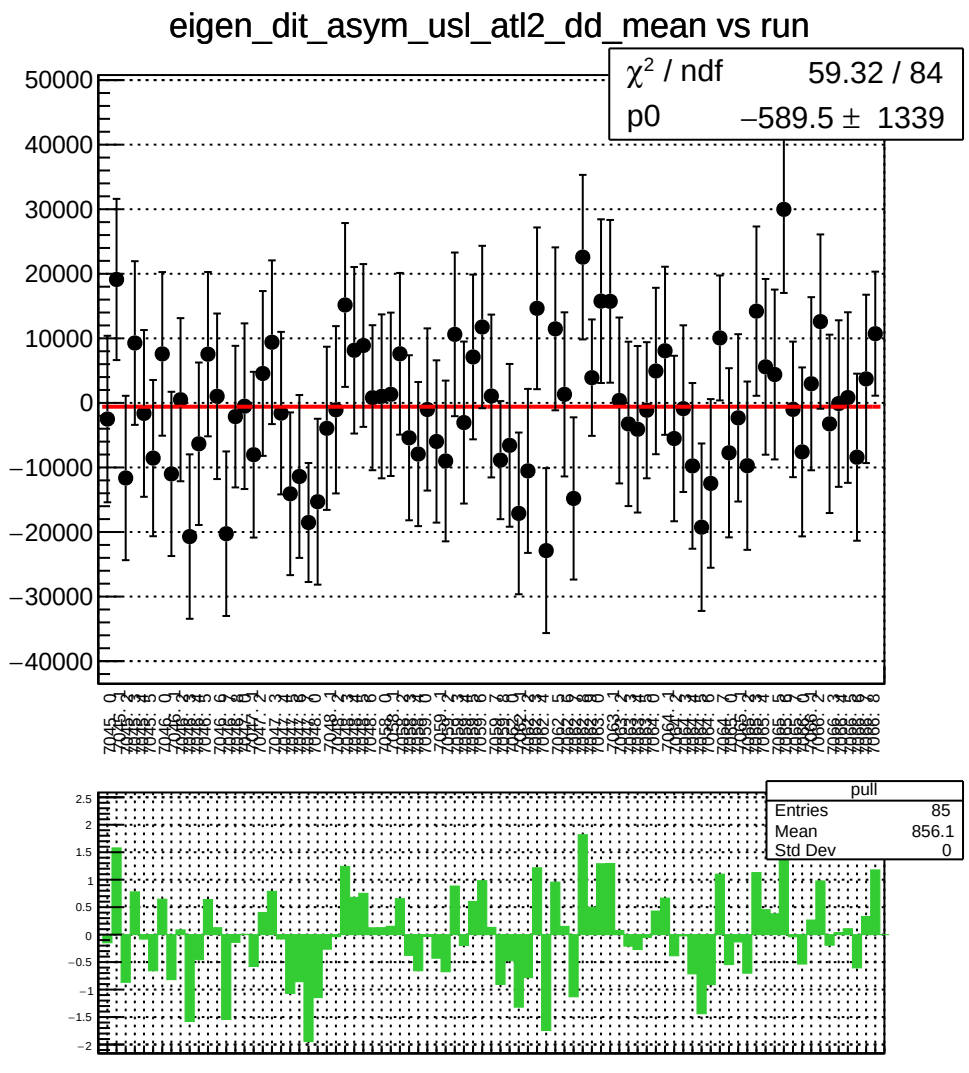

pull1D
Entries 85
Mean 0.004068
Std Dev 0.8354

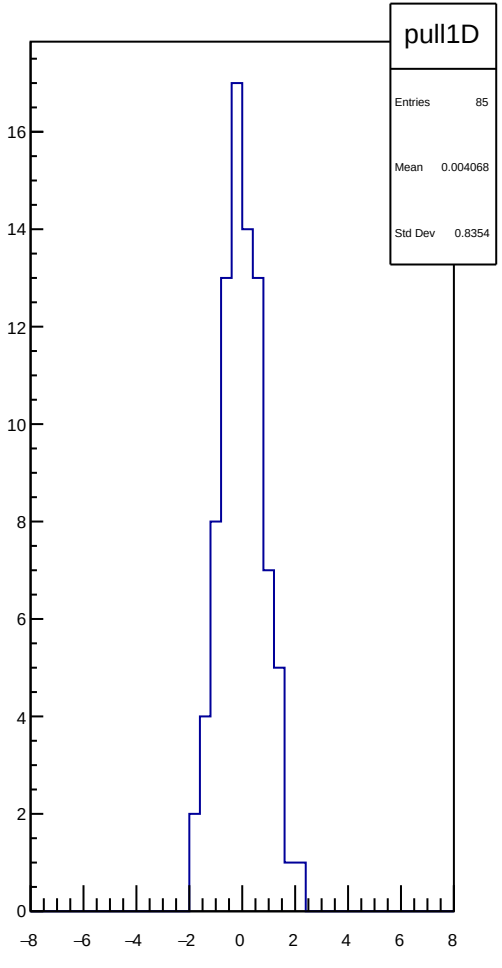

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 550.3 / 84
p0 1215 ± 0.9466
1320
1300
1280
1260
1240
1220
1200
1180
1160

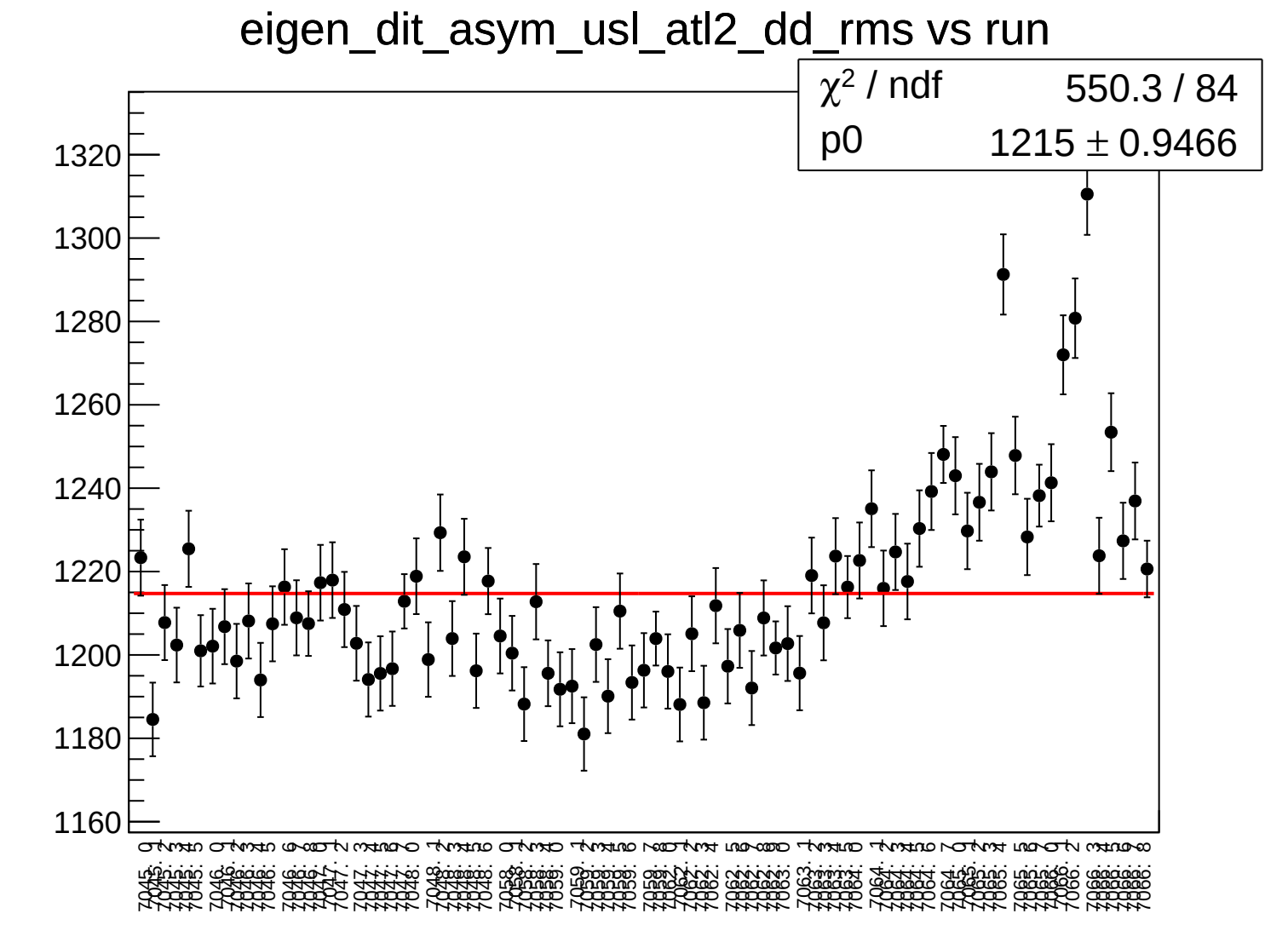

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.35 / 84
p0 2843 ± 5597
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 178.1
Std Dev 0
2
1
0
−1
−2

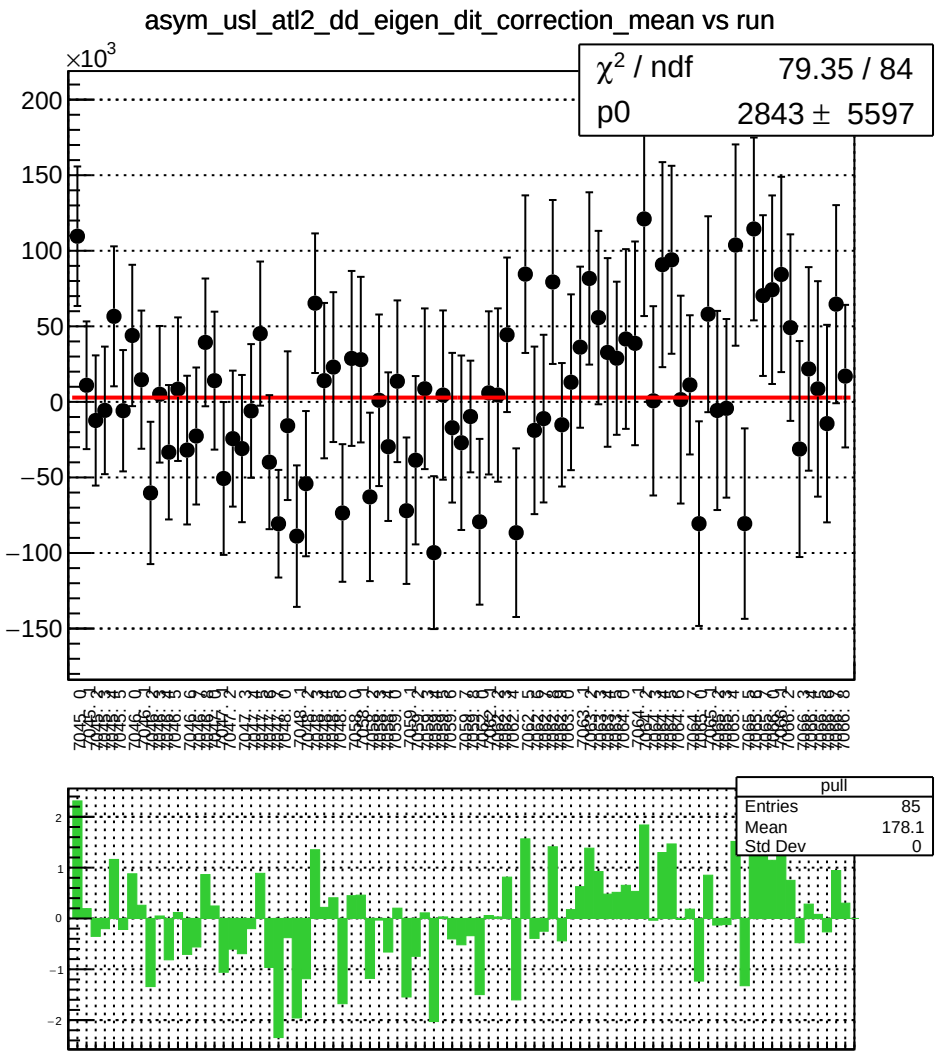

pull1D
Entries 85
Mean 0.0459
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

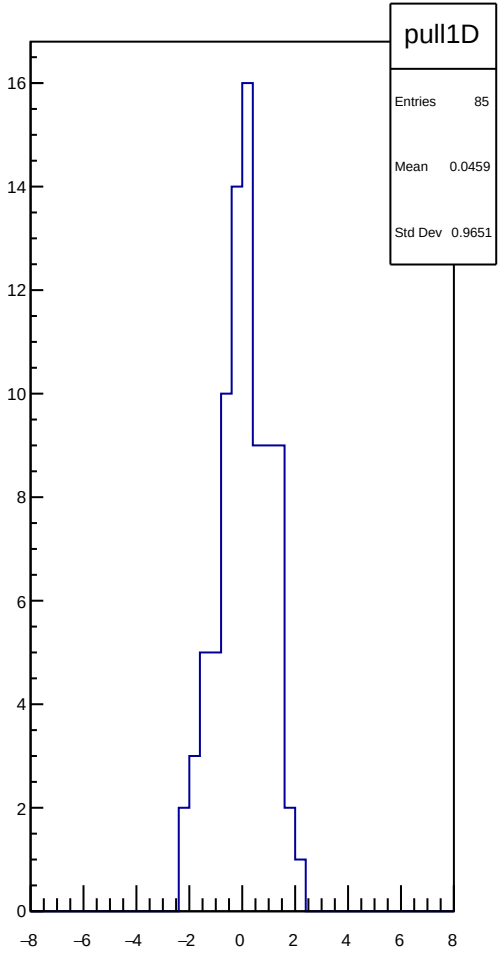

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 3.205e+04 / 84
p0 5030 ± 3.958
7000
6500
6000
5500
5000
4500
4000

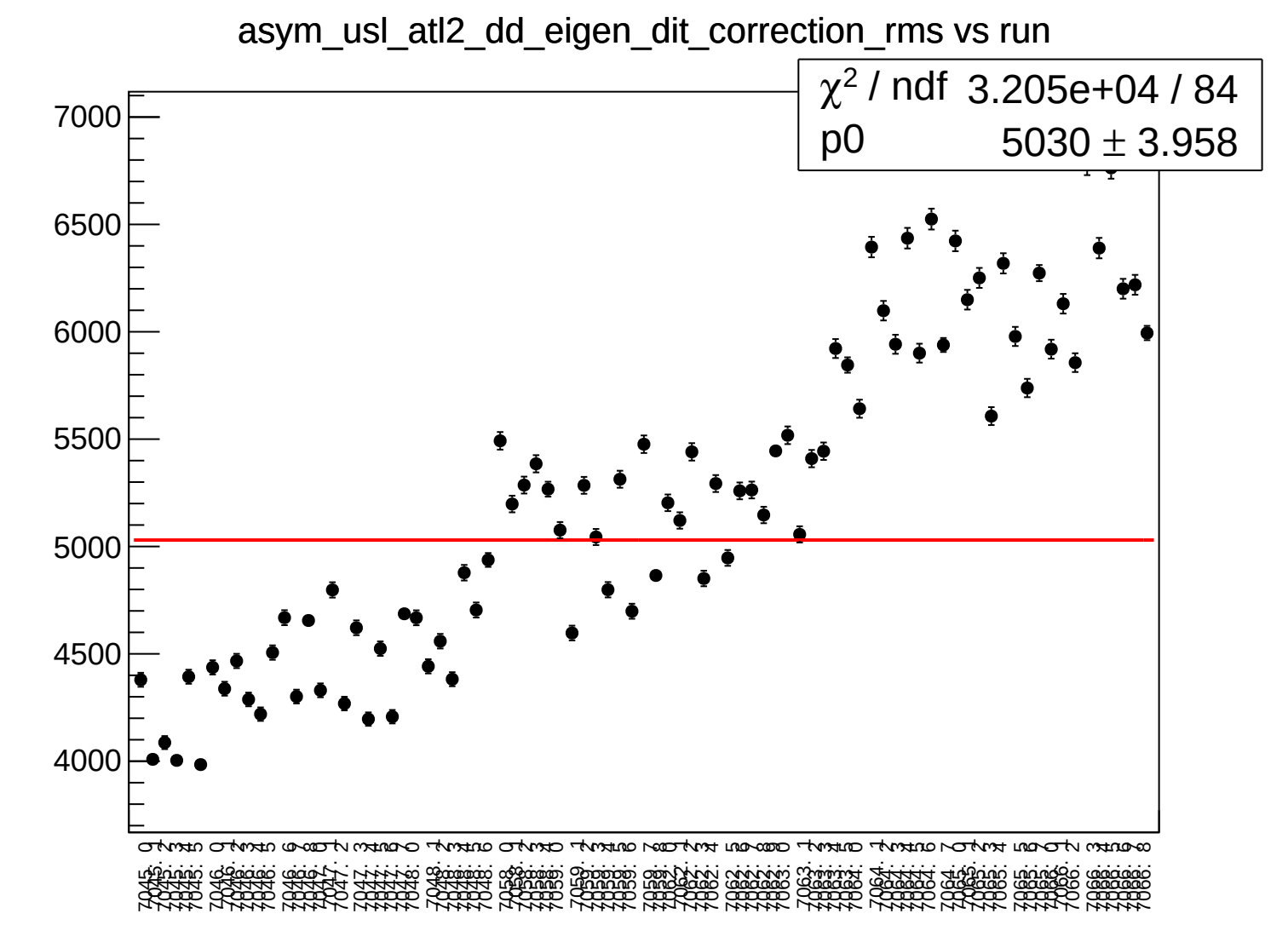

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 59.32 / 84
p0 −589.5 ± 1339
pull
Entries 85
Mean 856.1
Std Dev 0

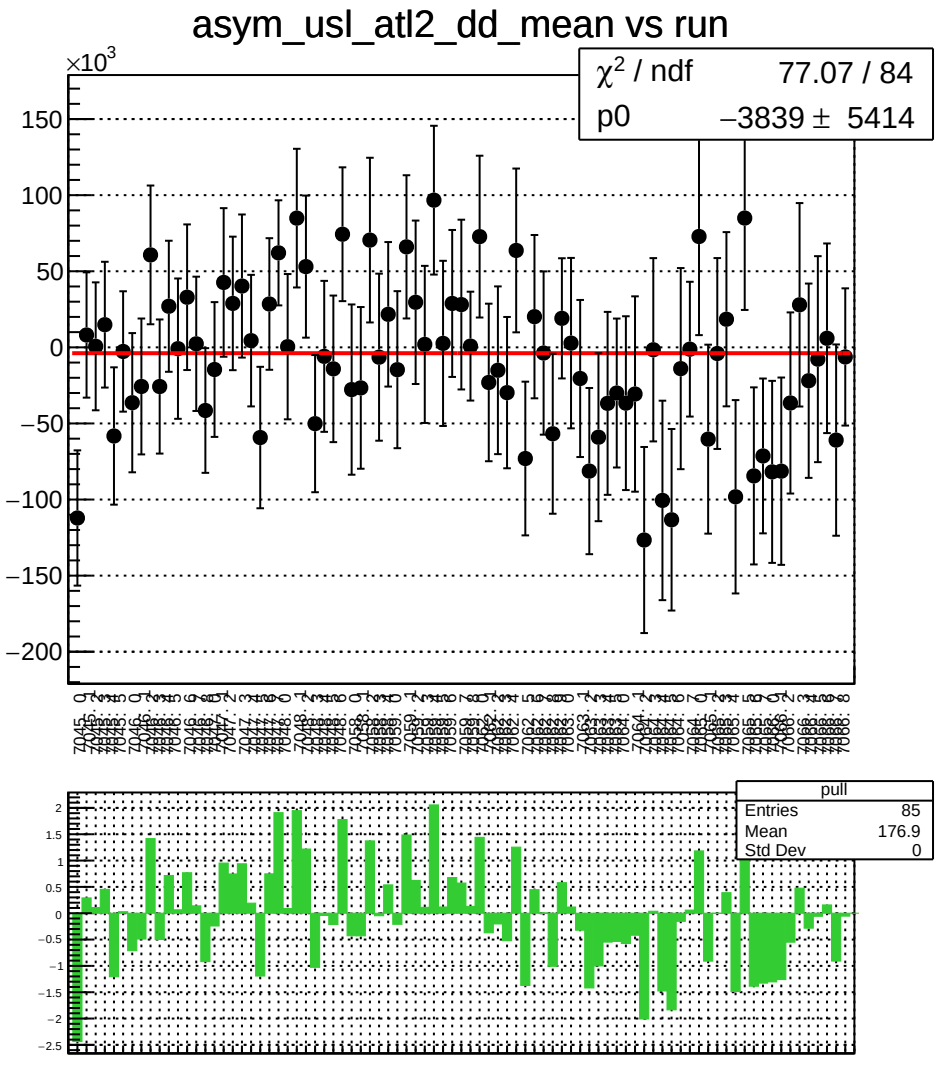

pull1D
Entries 85
Mean 0.004068
Std Dev 0.8354

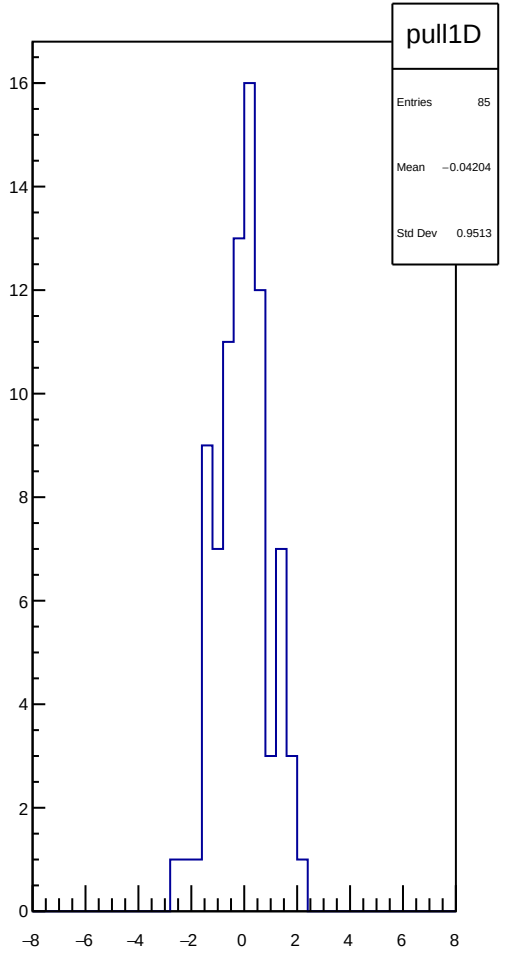

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 550.3 / 84
p0 1215 ± 0.9466
1320
1300
1280
1260
1240
1220
1200
1180
1160

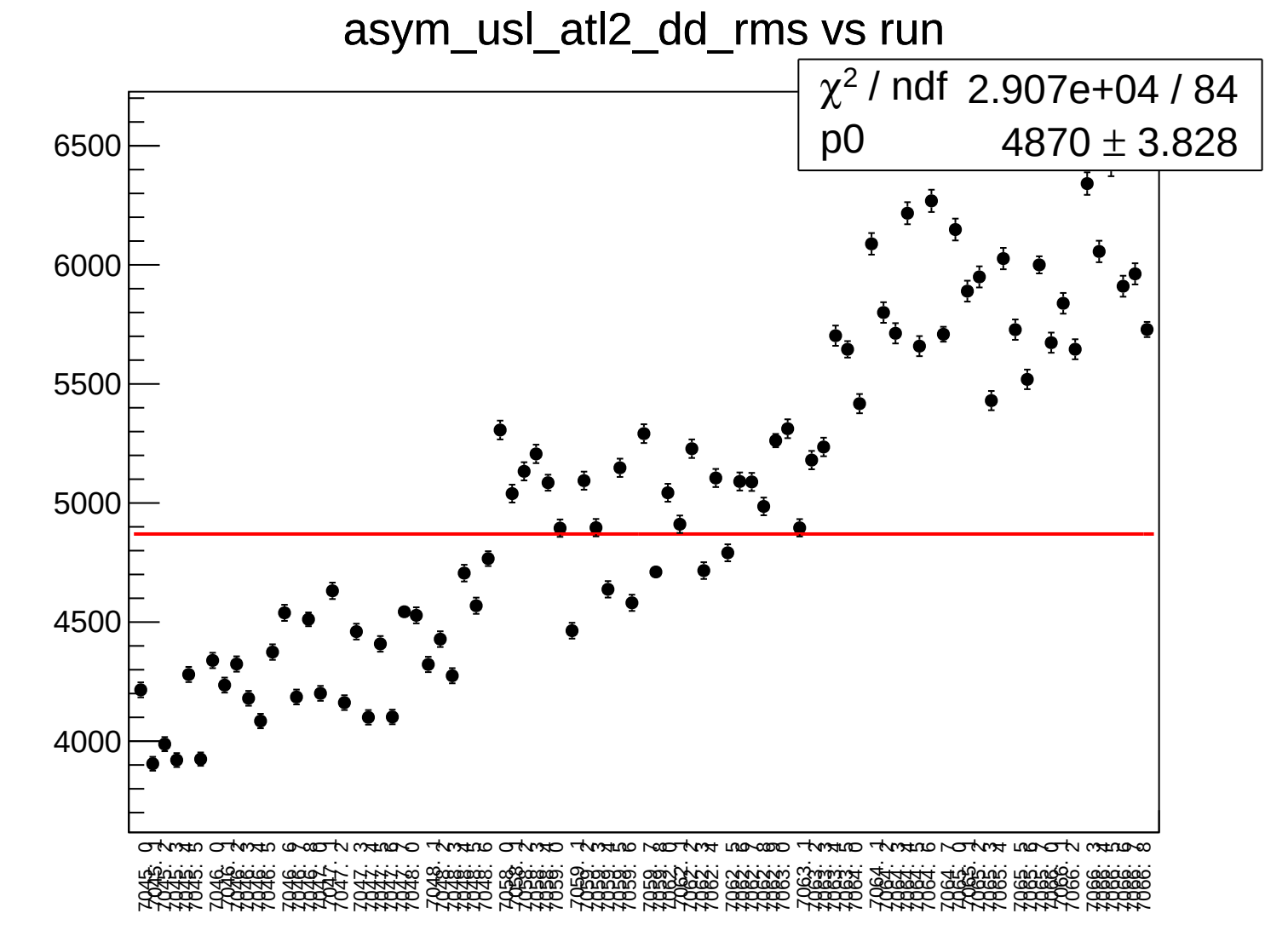

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.35 / 84
p0 2843 ± 5597
pull
Entries 85
Mean 178.1
Std Dev 0

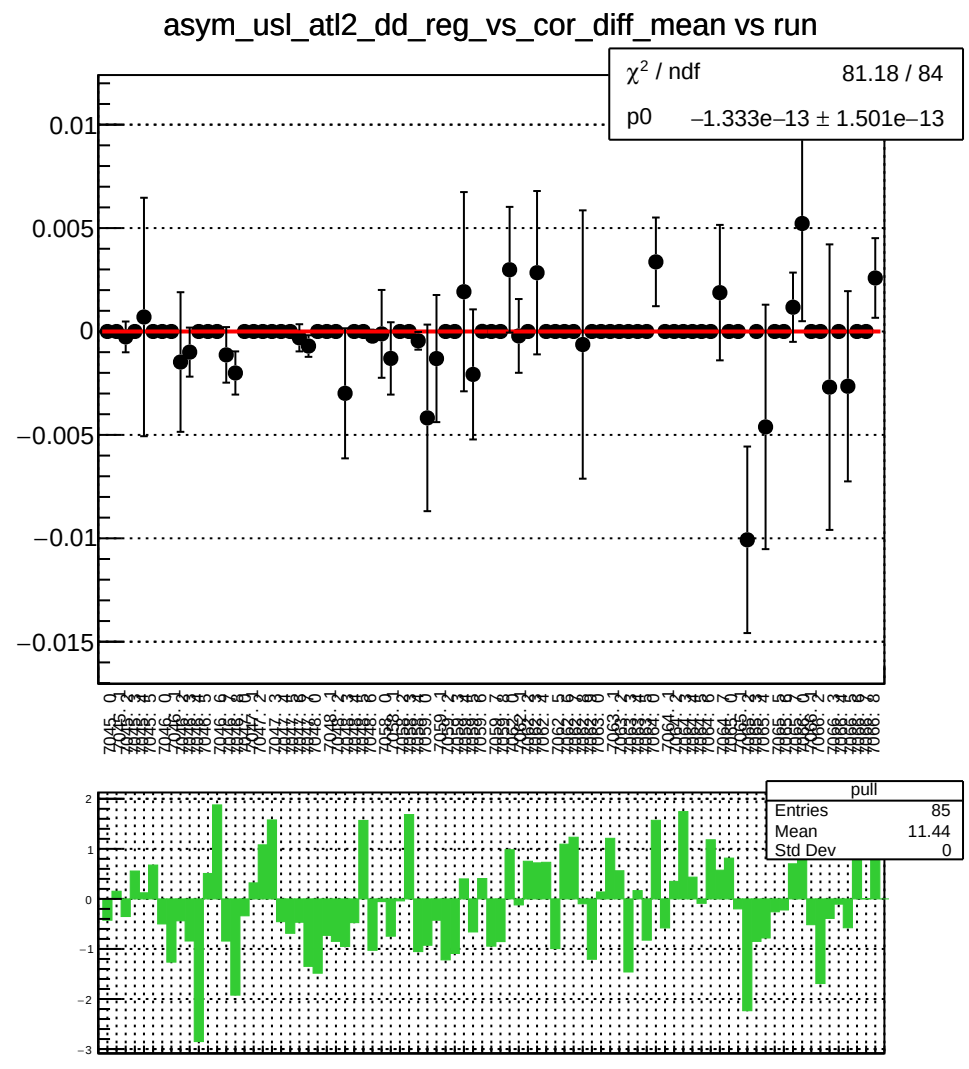

pull1D
Entries 85
Mean 0.0459
Std Dev 0.9651

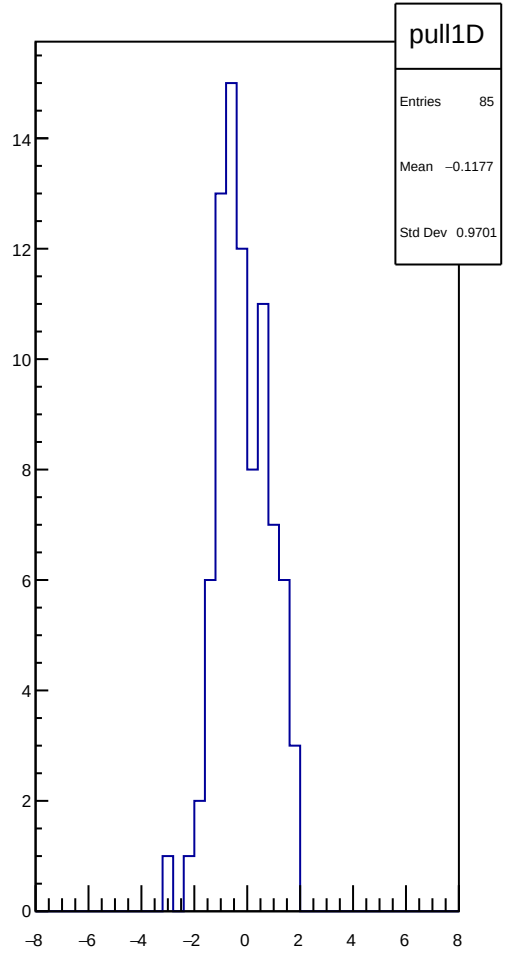

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.205e+04 / 84
p0 5030 ± 3.958
7000
6500
6000
5500
5000
4500
4000

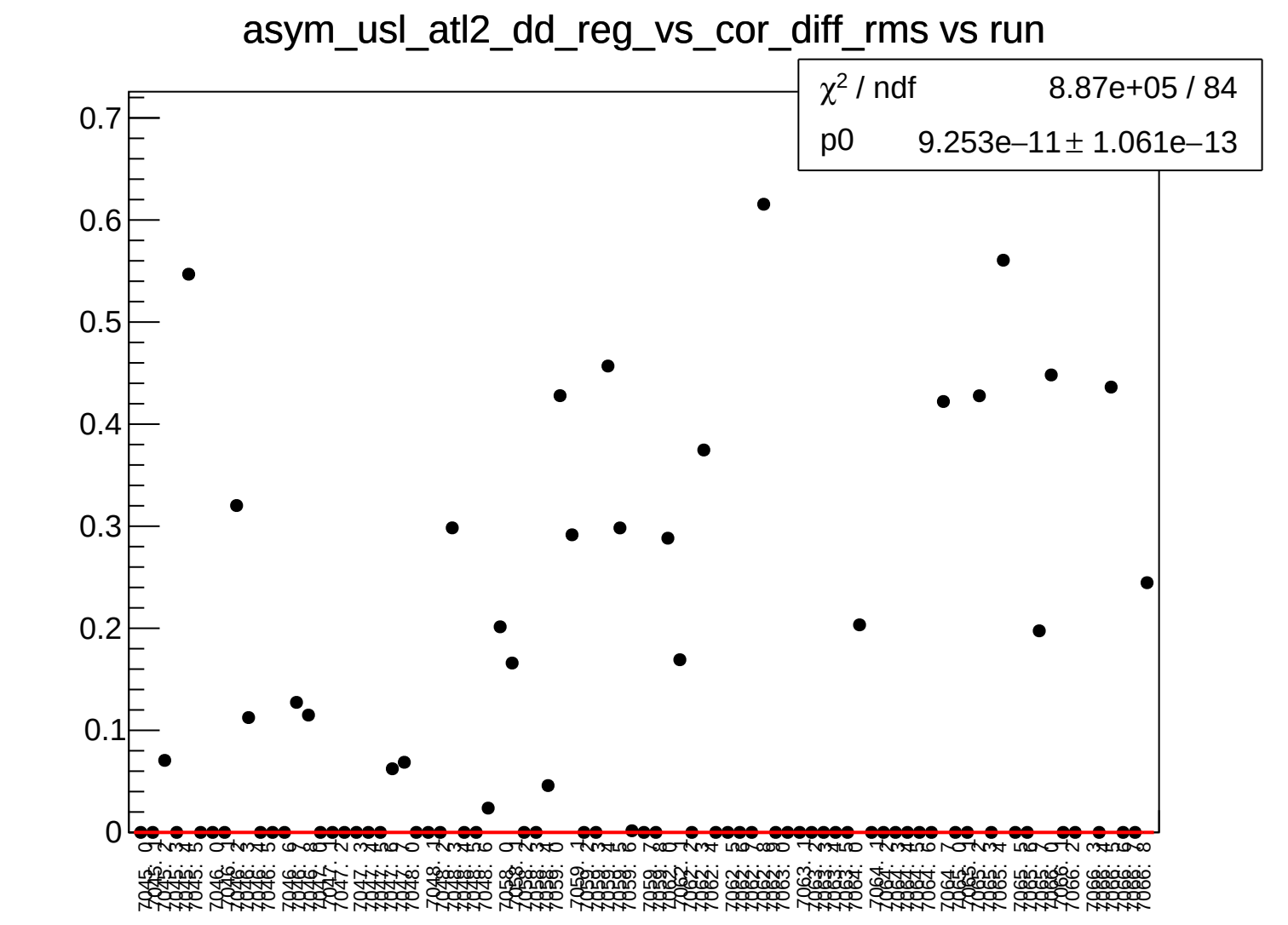

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 77.07 / 84
p0 −3839 ± 5414
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 176.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

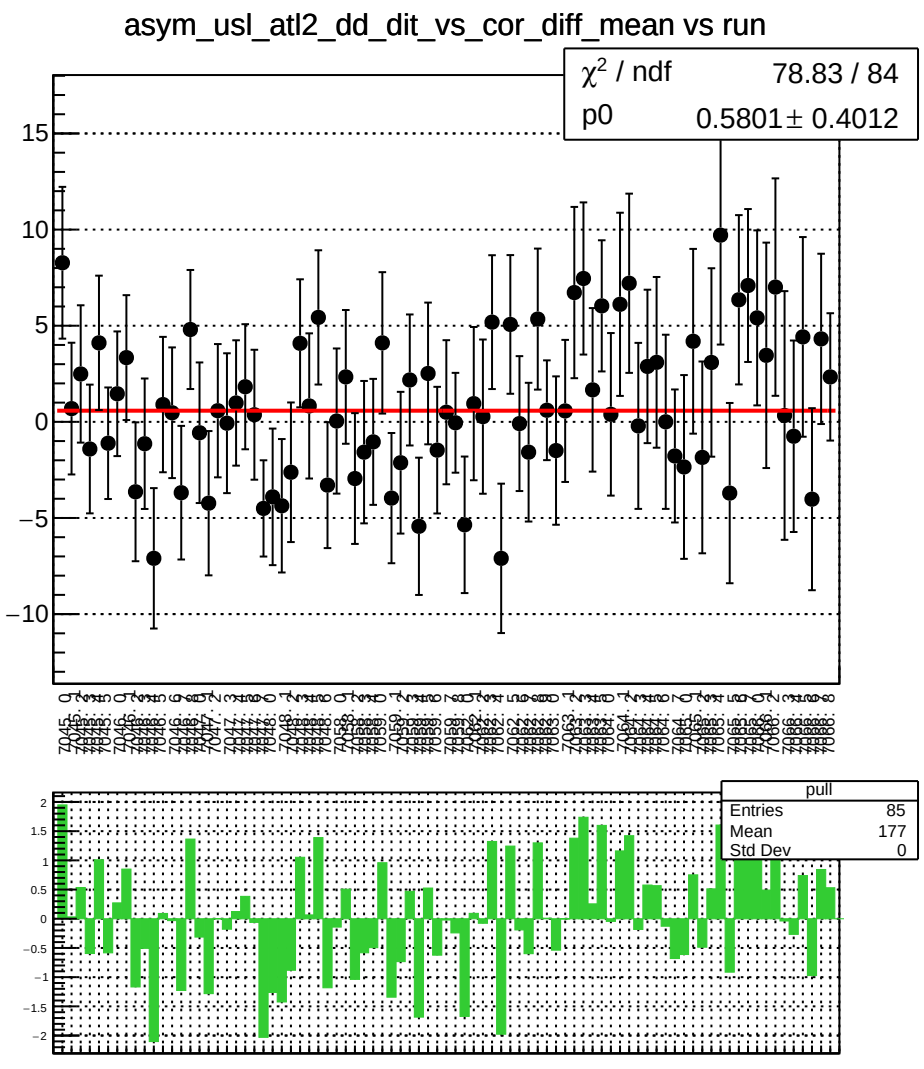

pull1D
Entries 85
Mean −0.04204
Std Dev 0.9513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

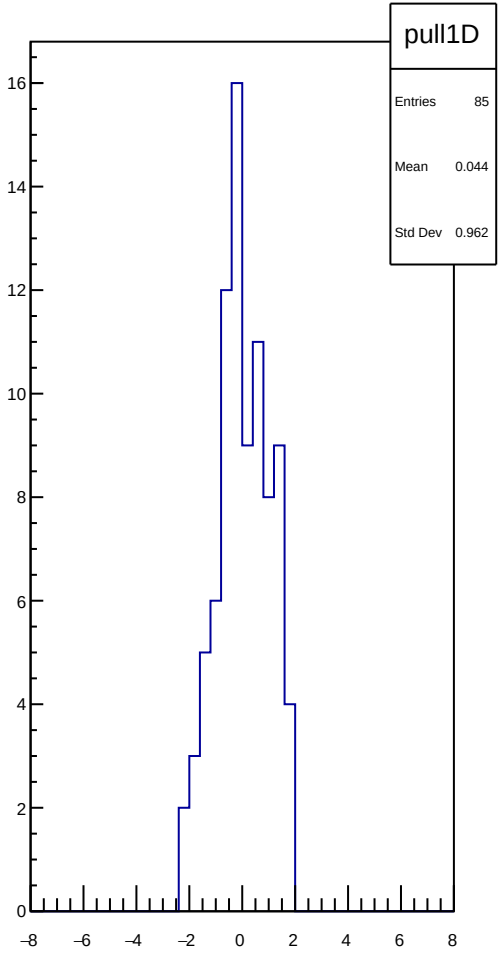

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.907e+04 / 84
p0 4870 ± 3.828
6500
6000
5500
5000
4500
4000

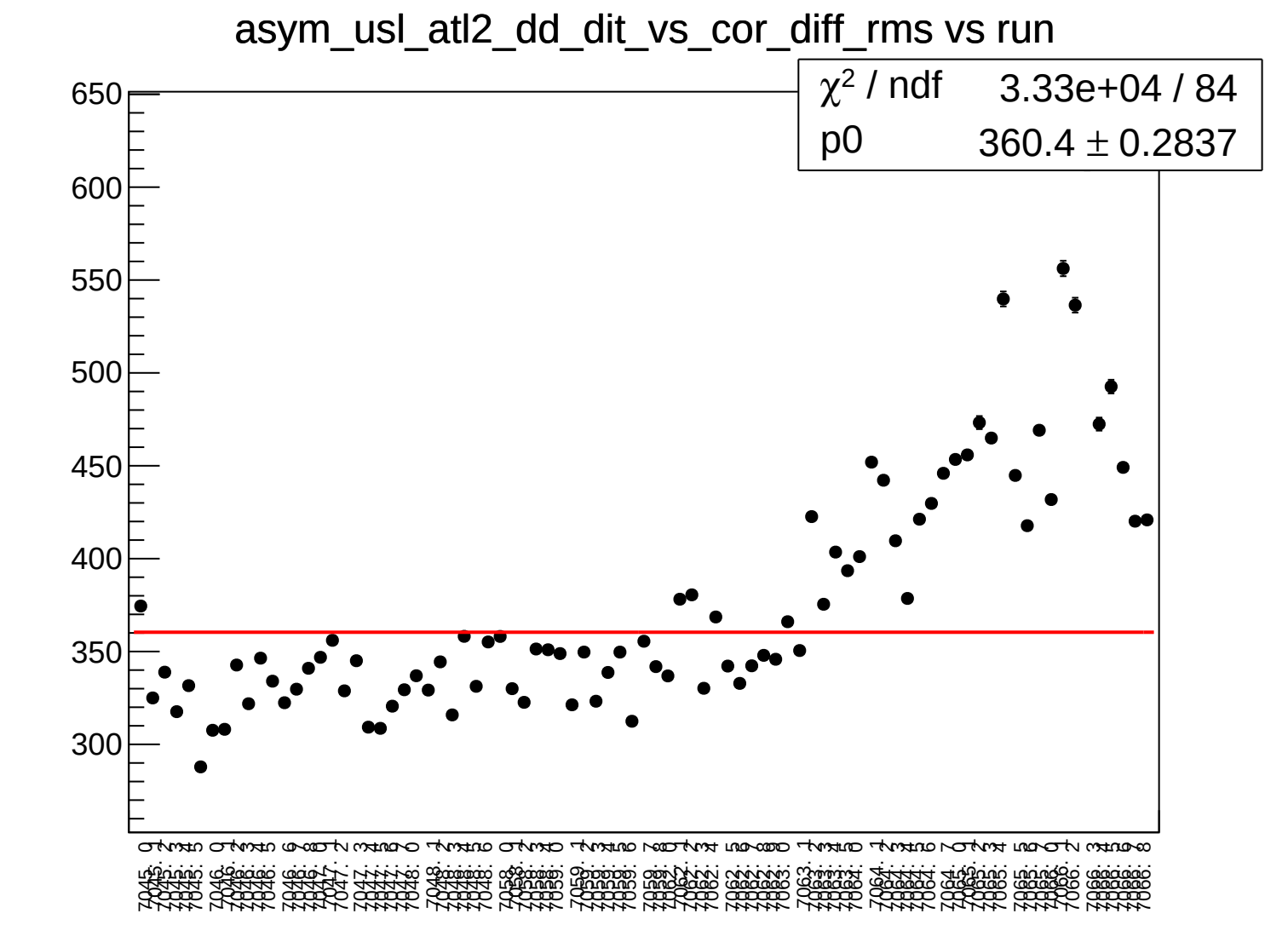

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.18 / 84
p0 −1.333e−13 ± 1.501e−13
pull
Entries 85
Mean 11.44
Std Dev 0

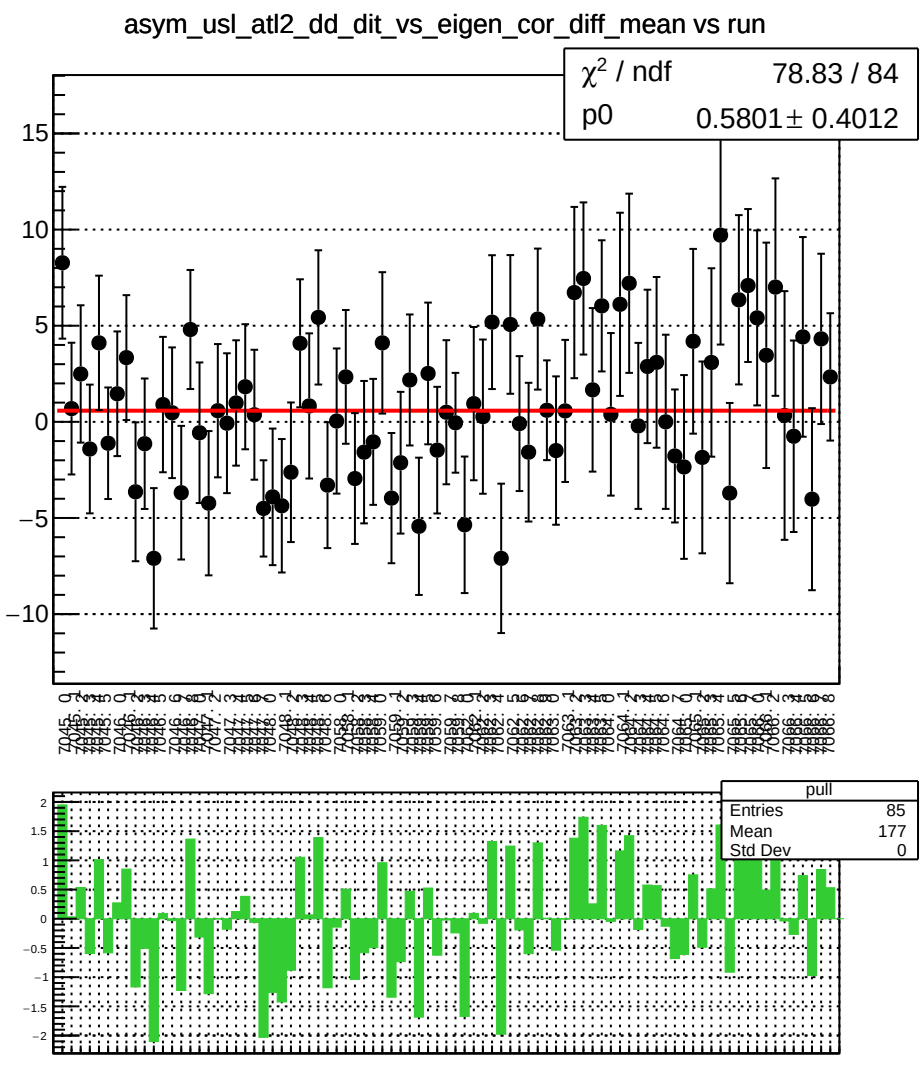

pull1D
Entries 85
Mean −0.1177
Std Dev 0.9701

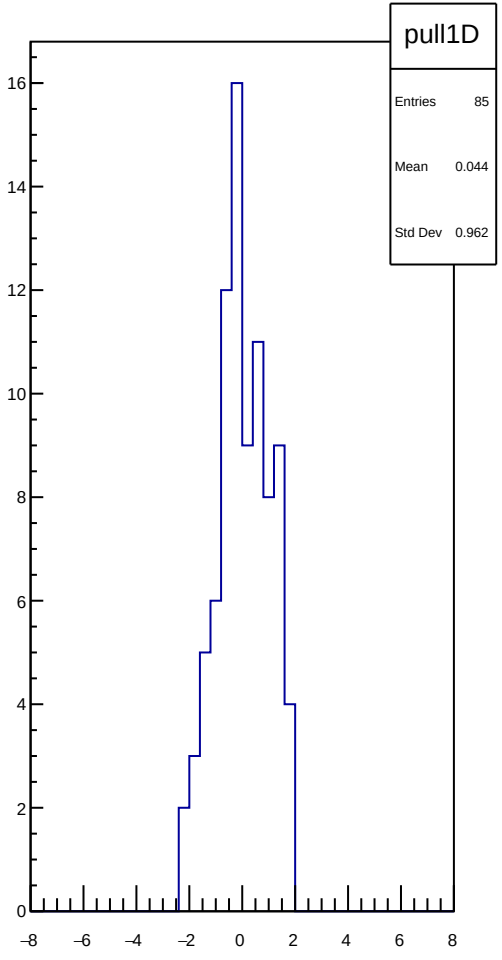

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.87e+05 / 84
p0 9.253e−11 ± 1.061e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

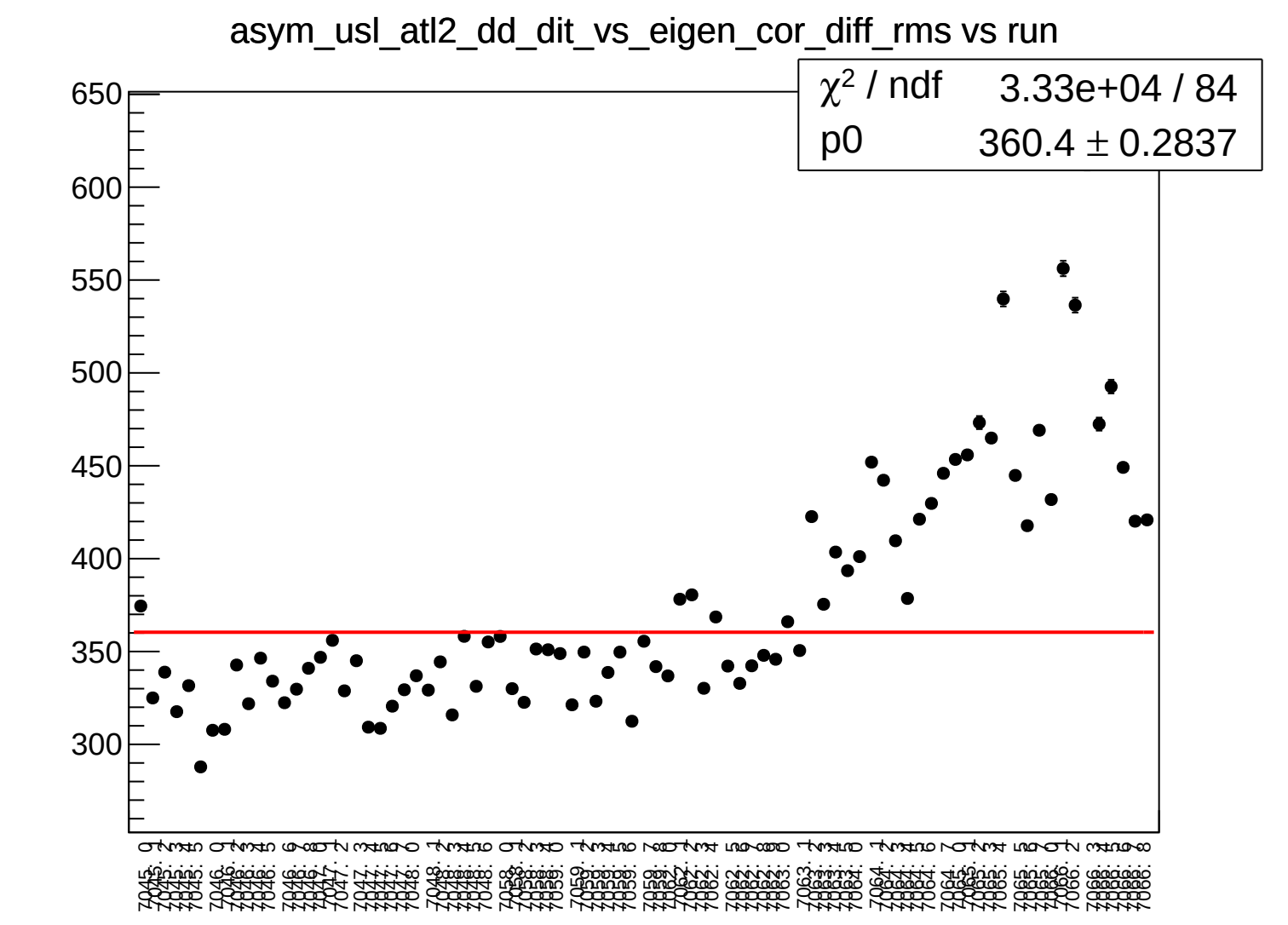

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.83 / 84
p0 0.5801 ± 0.4012
pull
Entries 85
Mean 177
Std Dev 0

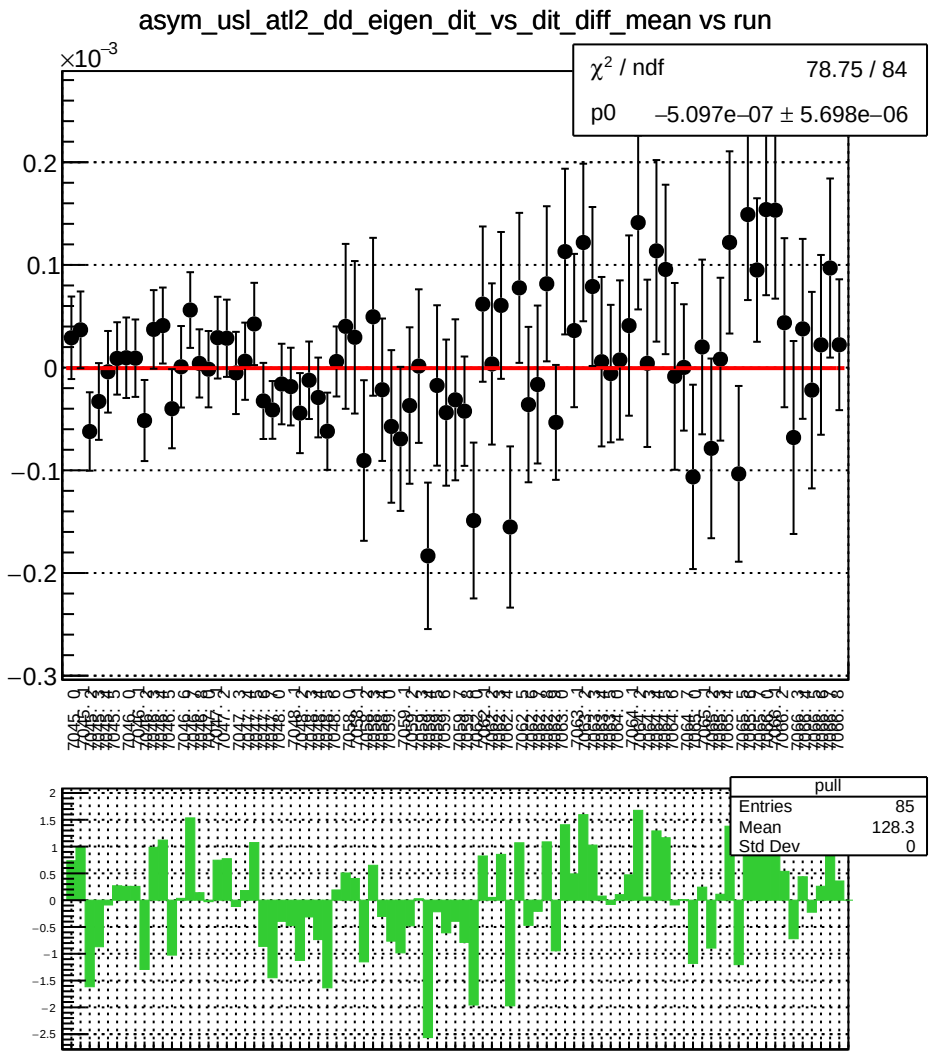

pull1D
Entries 85
Mean 0.044
Std Dev 0.962

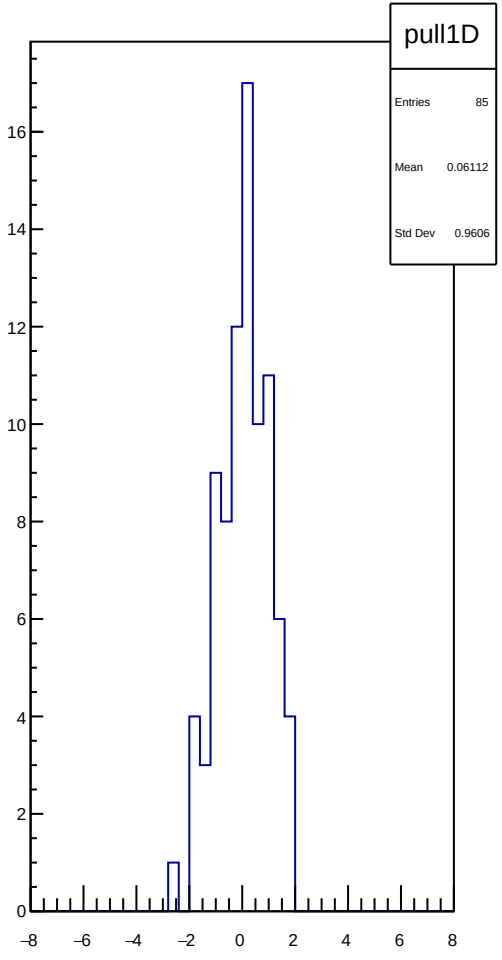

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.33e+04 / 84
p0 360.4 ± 0.2837
650
600
550
500
450
400
350
300

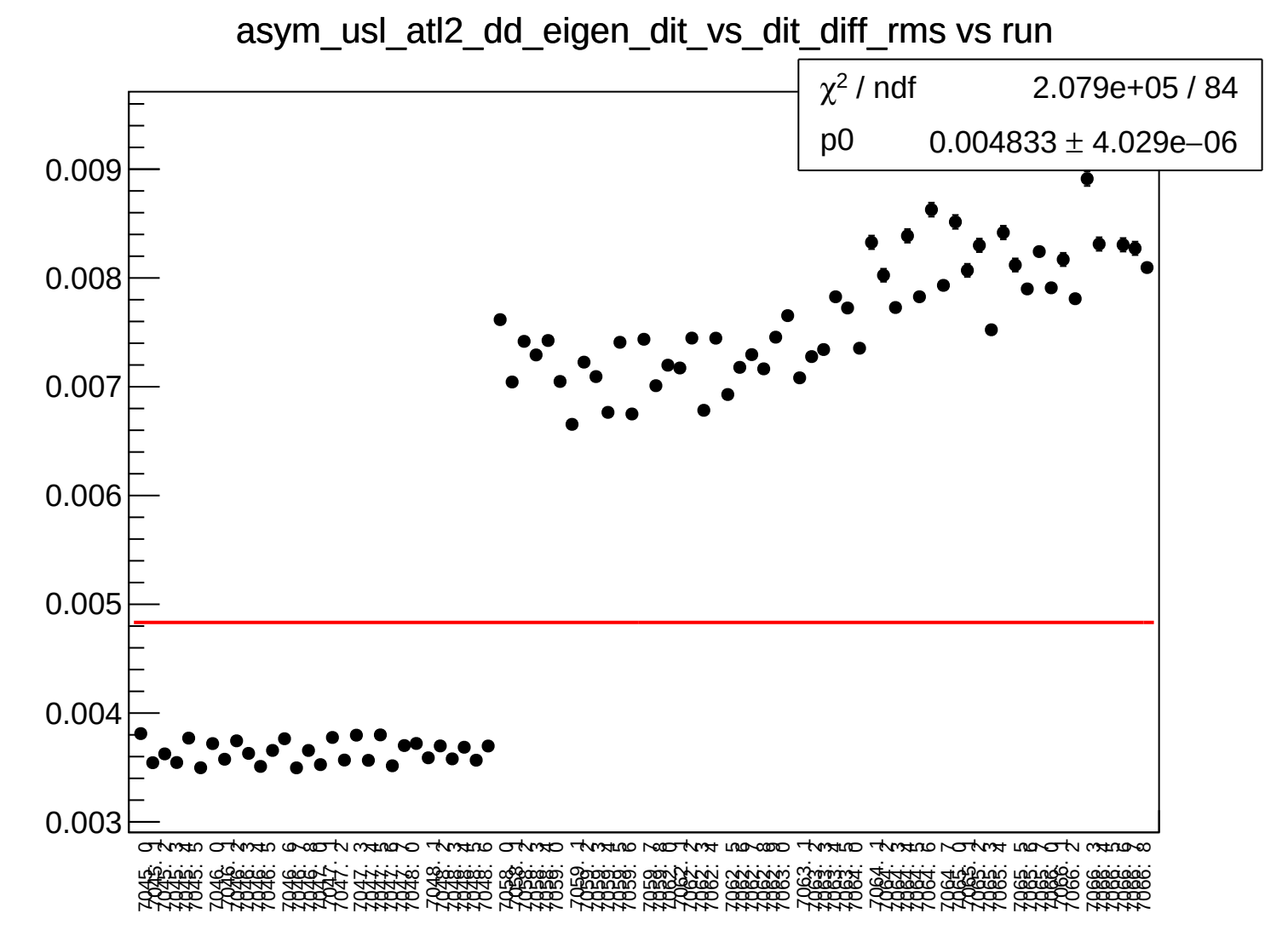

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.83 / 84
p0 0.5801 ± 0.4012
pull
Entries 85
Mean 177
Std Dev 0

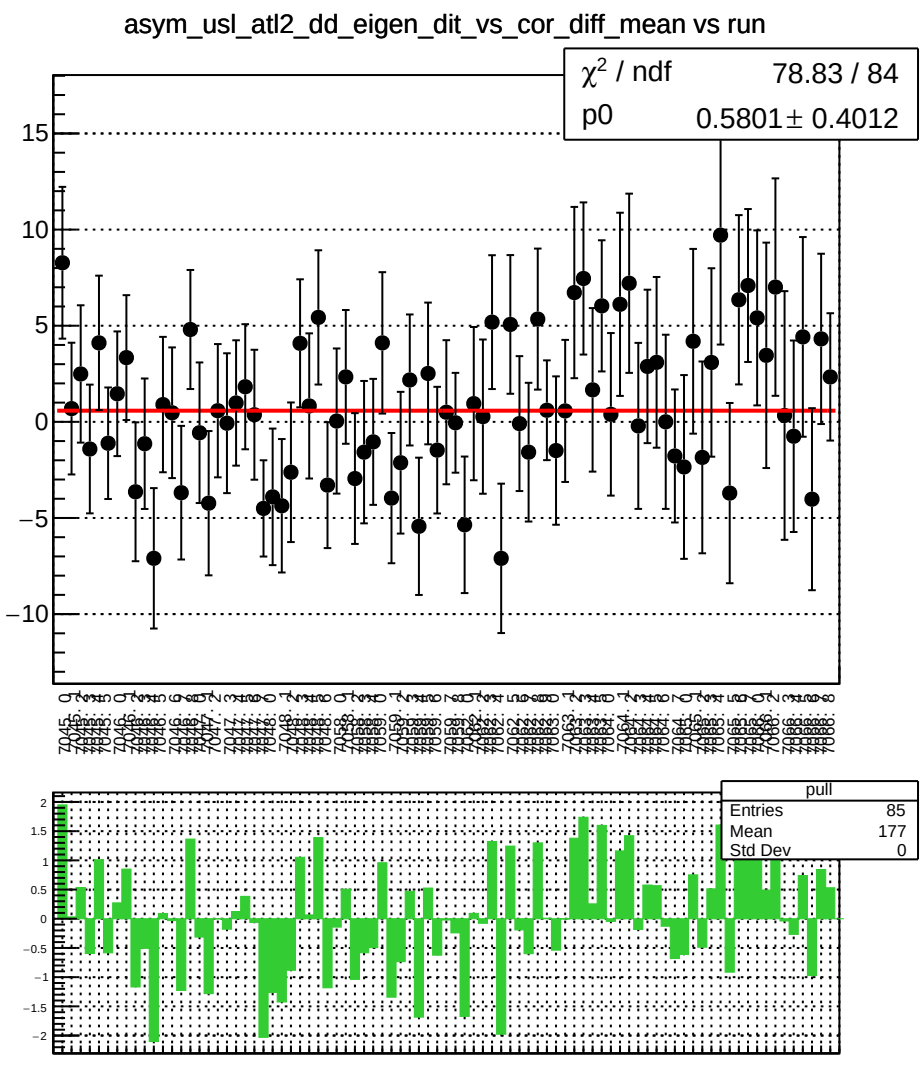

pull1D
Entries 85
Mean 0.044
Std Dev 0.962

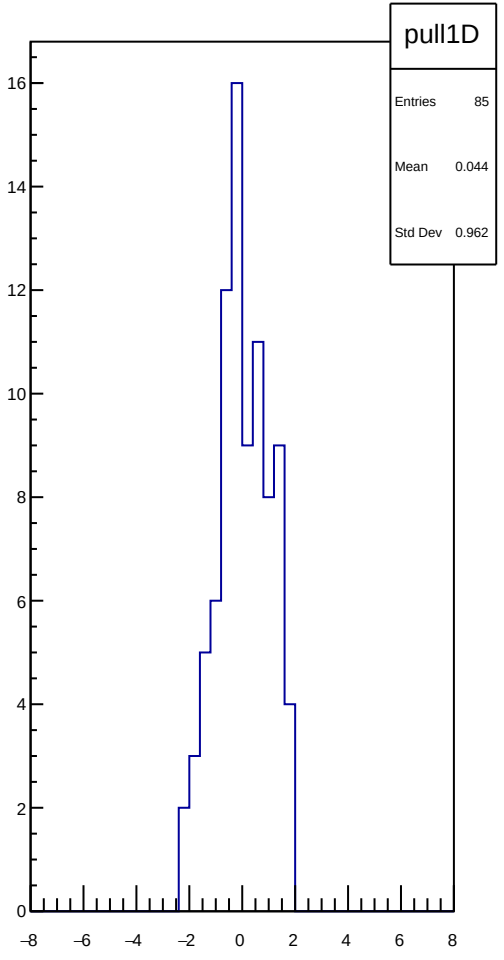

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.33e+04 / 84
p0 360.4 ± 0.2837
650
600
550
500
450
400
350
300

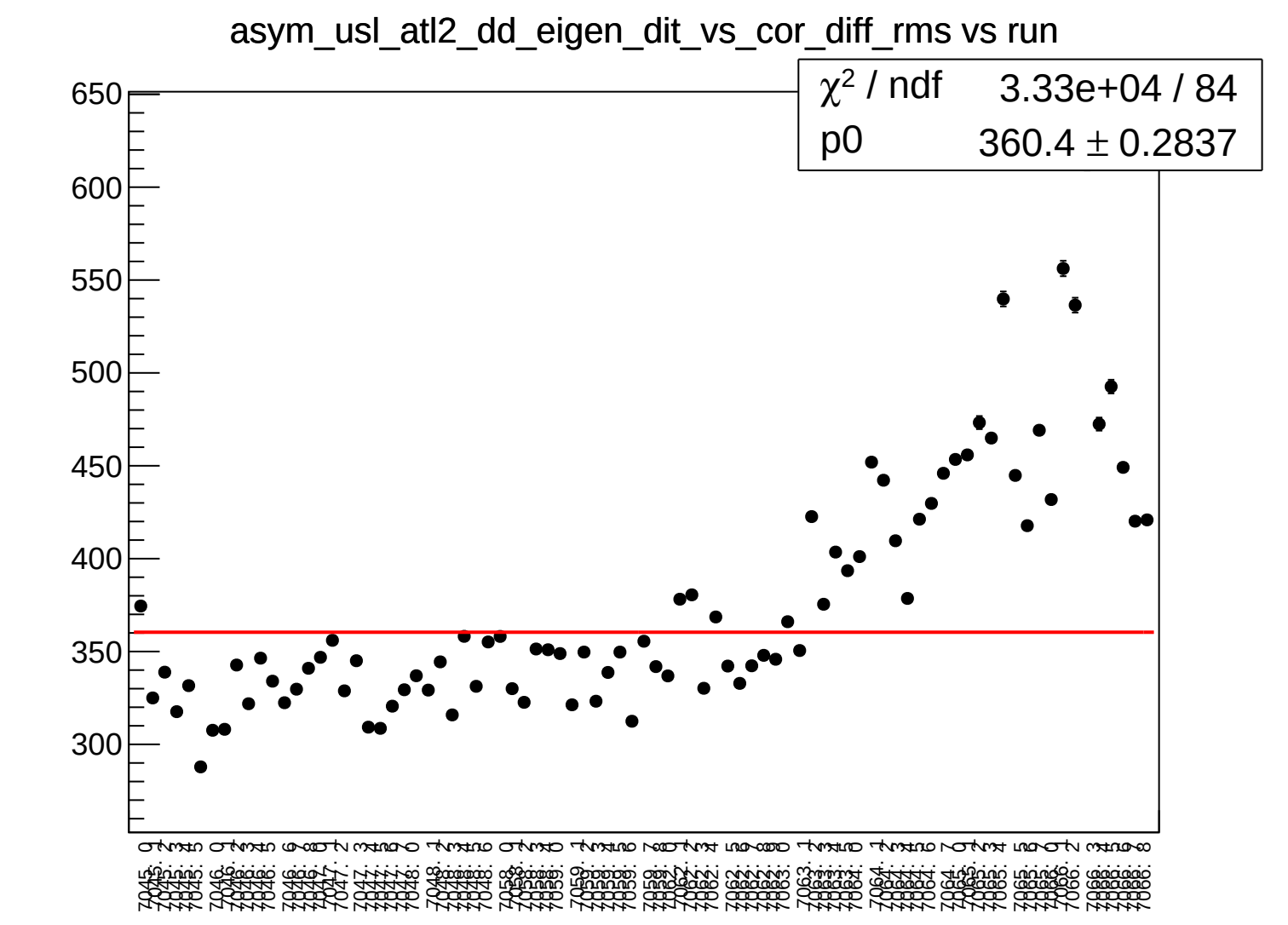

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.75 / 84
p0 −5.097e−07 ± 5.698e−06
pull
Entries 85
Mean 128.3
Std Dev 0

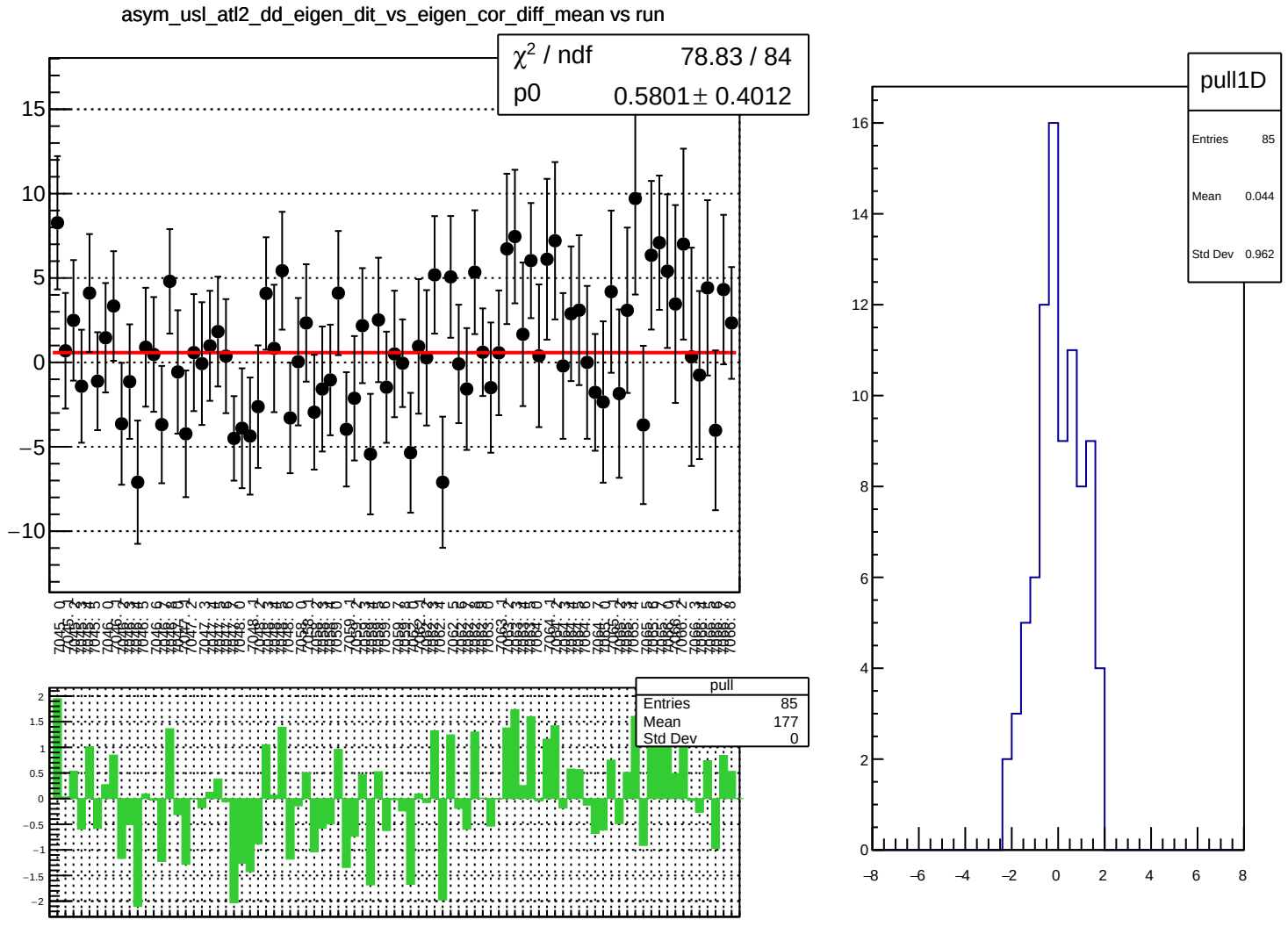

pull1D
Entries 85
Mean 0.06112
Std Dev 0.9606

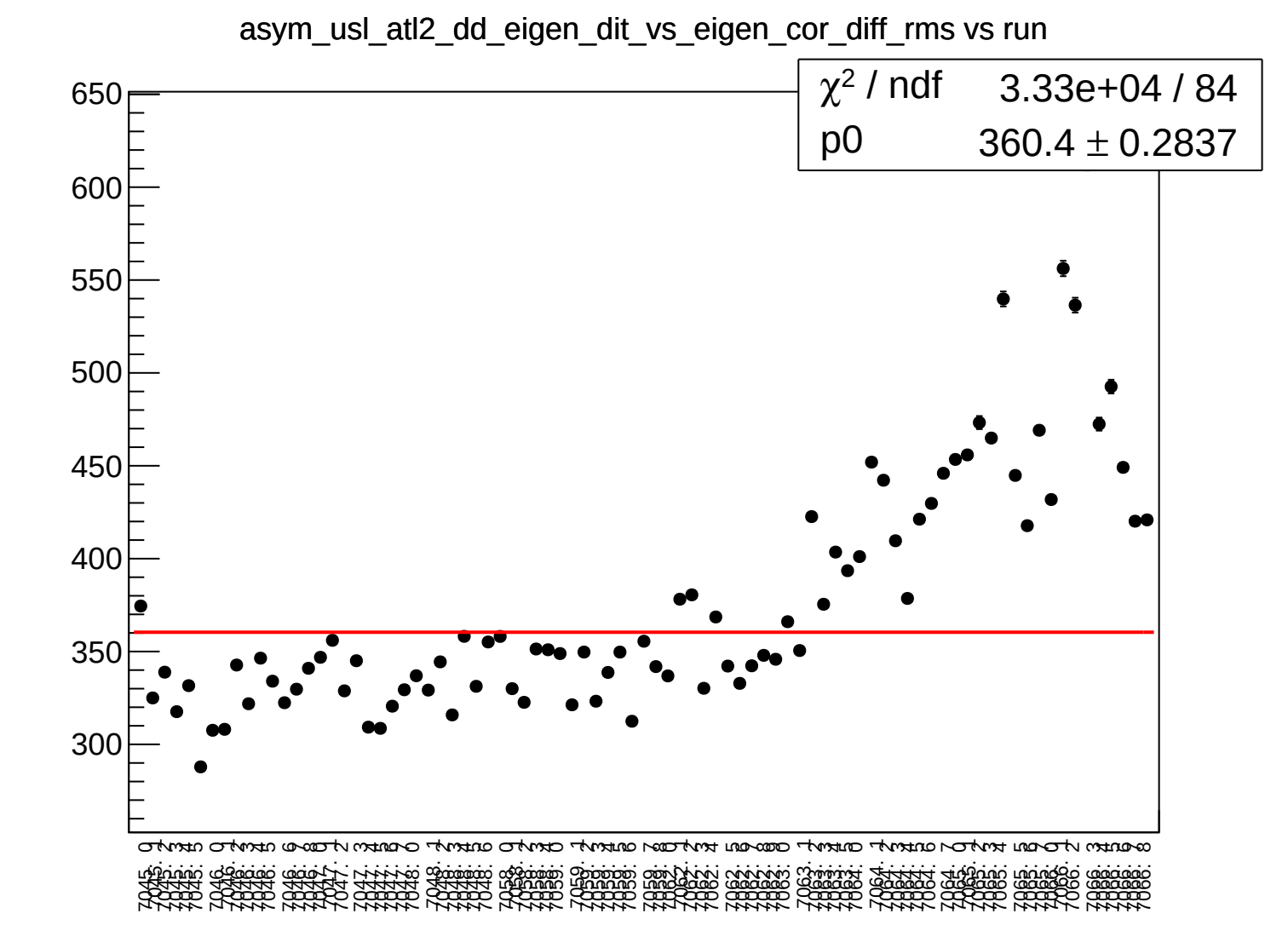

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.079e+05 / 84
p0 0.004833 ± 4.029e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

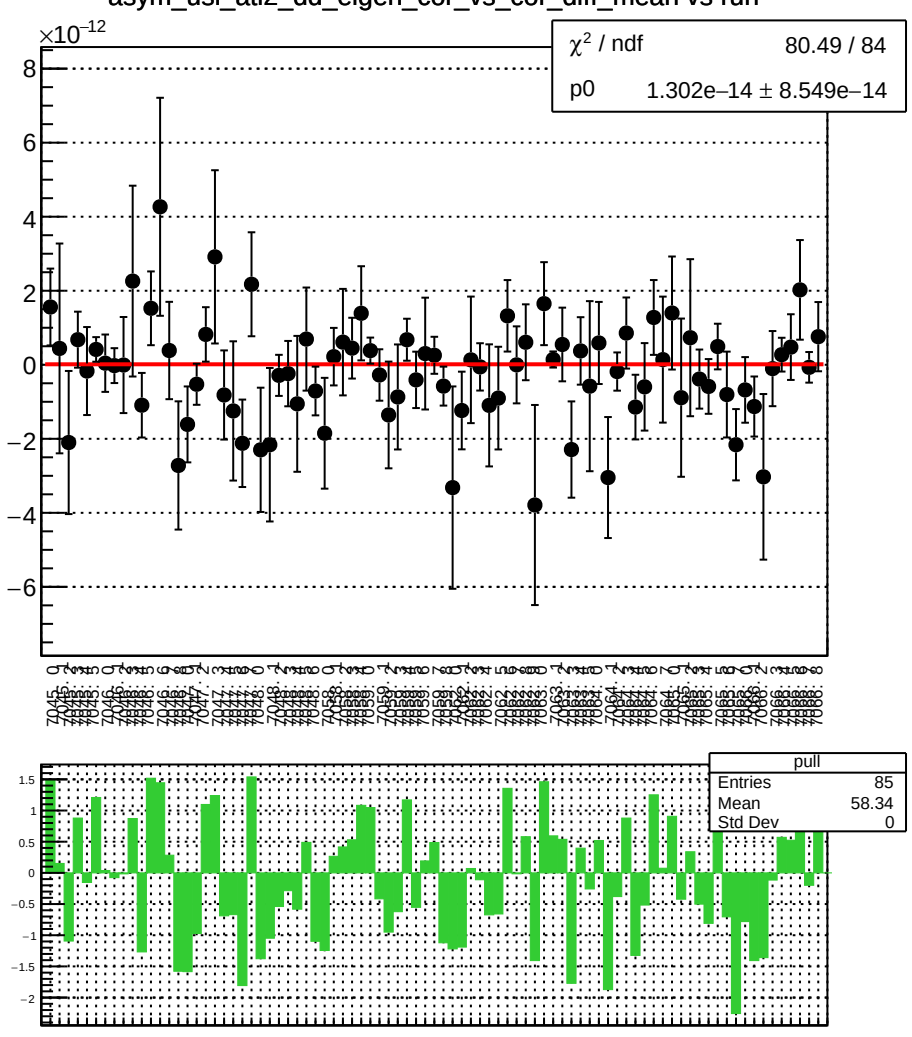

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.83 / 84
p0 0.5801 ± 0.4012
pull
Entries 85
Mean 177
Std Dev 0

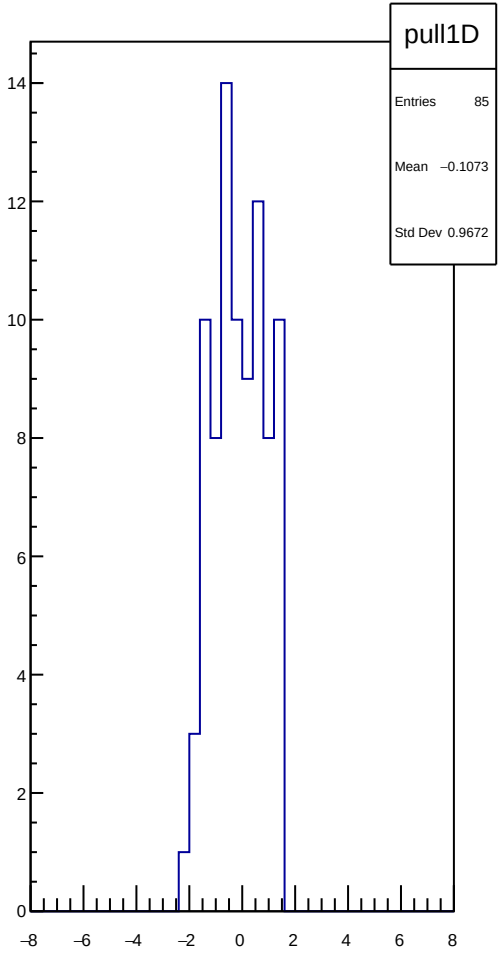

pull1D
Entries 85
Mean 0.044
Std Dev 0.962

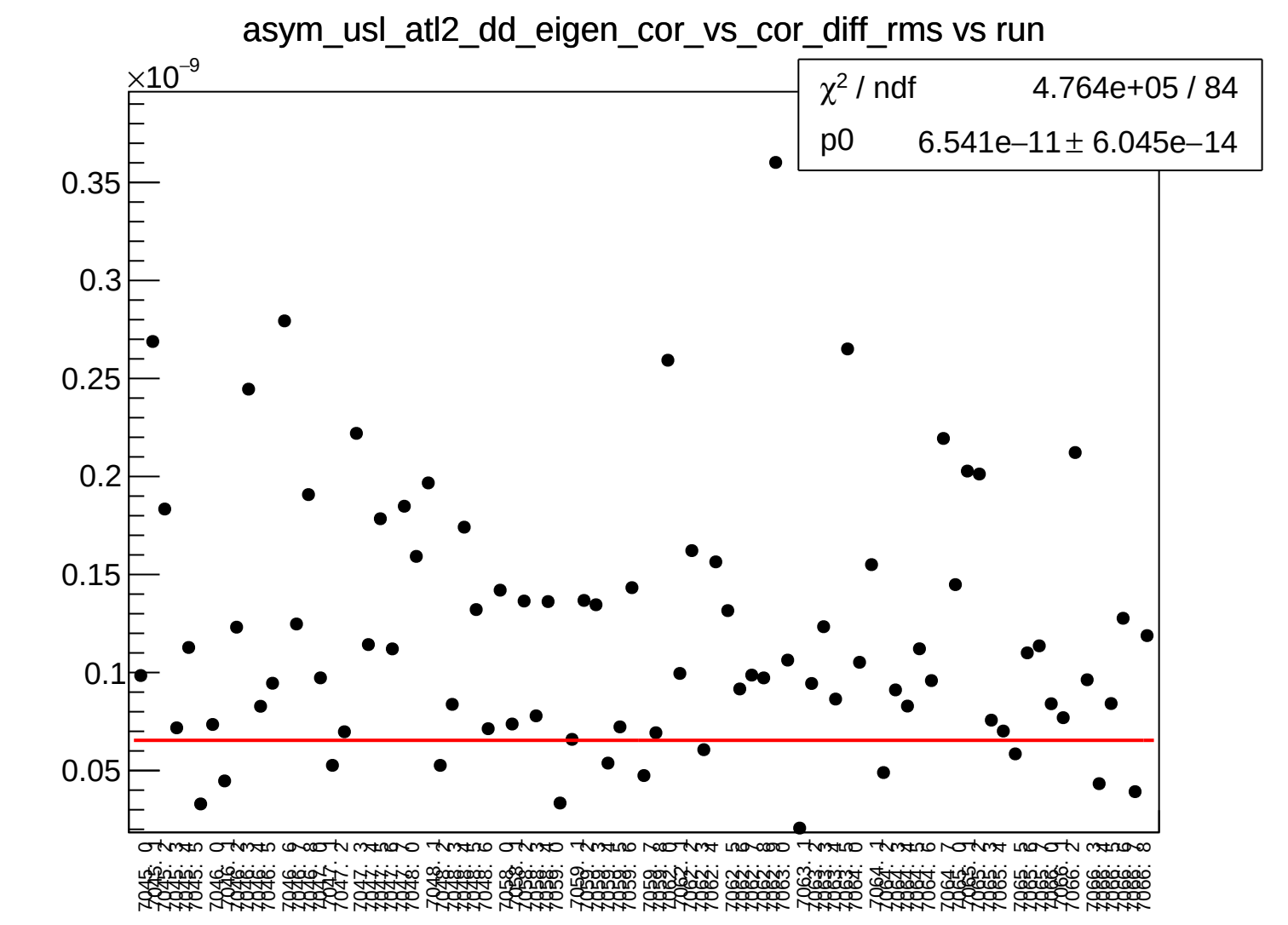

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.33e+04 / 84
p0 360.4 ± 0.2837
650
600
550
500
450
400
350
300

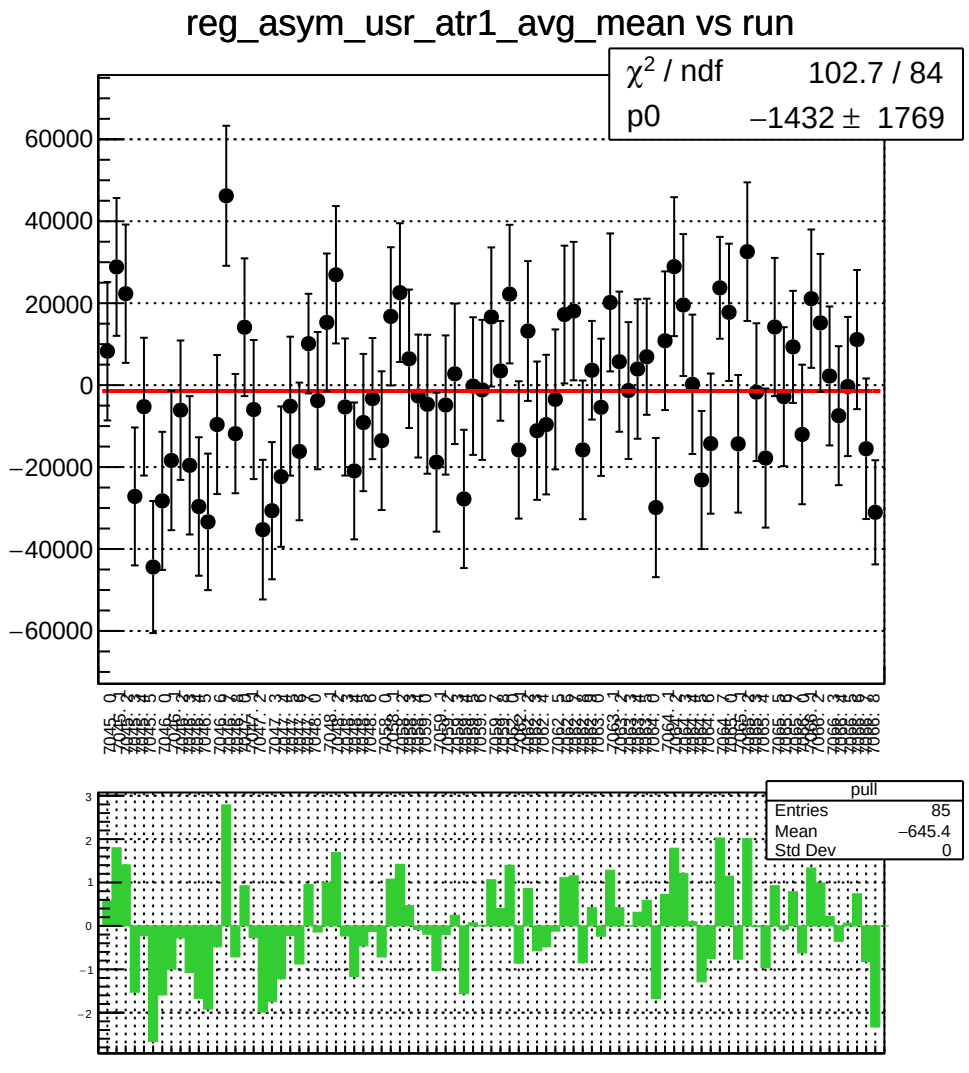

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.83 / 84
p0 0.5801 ± 0.4012
pull
Entries 85
Mean 177
Std Dev 0
pull1D
Entries 85
Mean 0.044
Std Dev 0.962

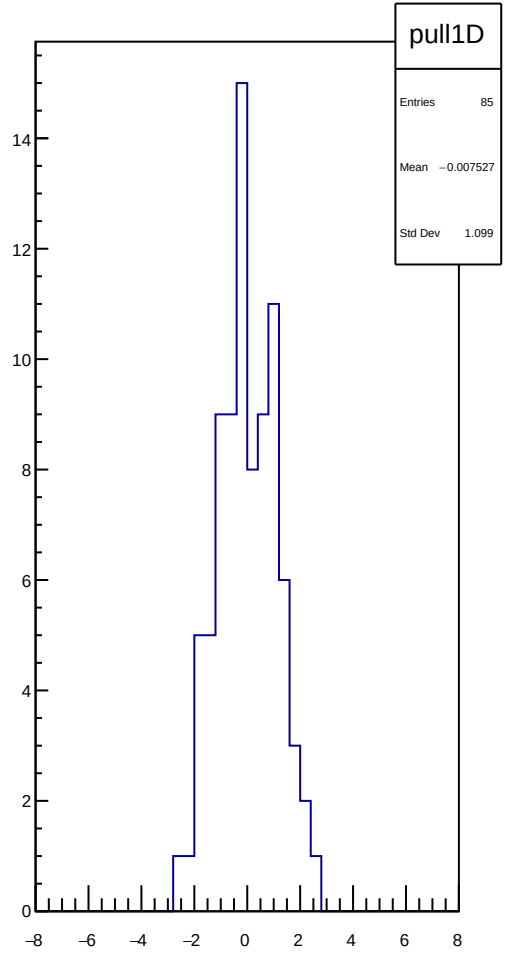

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.33e+04 / 84
p0 360.4 ± 0.2837
650
600
550
500
450
400
350
300

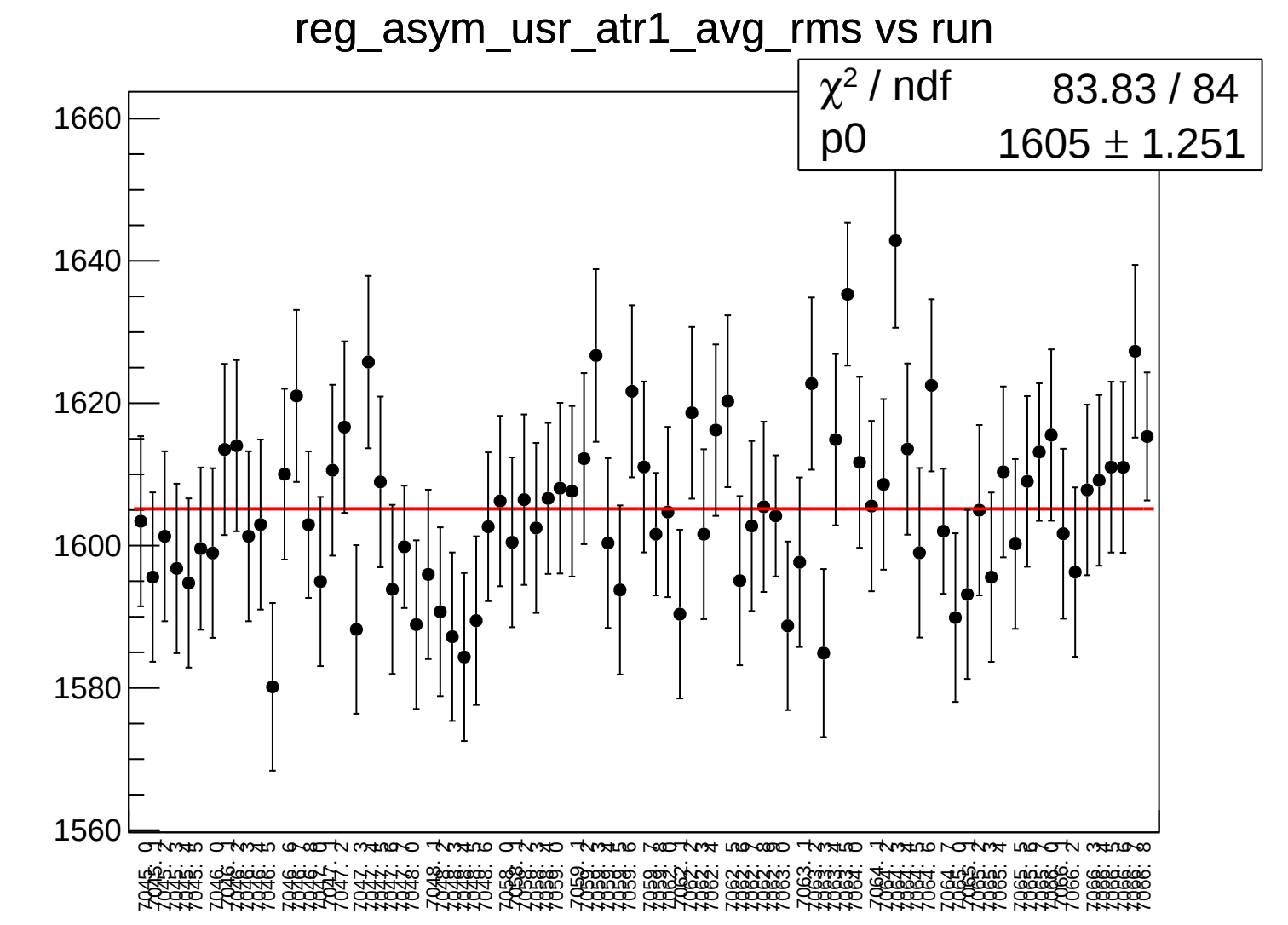

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.49 / 84
p0 1.302e−14 ± 8.549e−14
pull
Entries 85
Mean 58.34
Std Dev 0

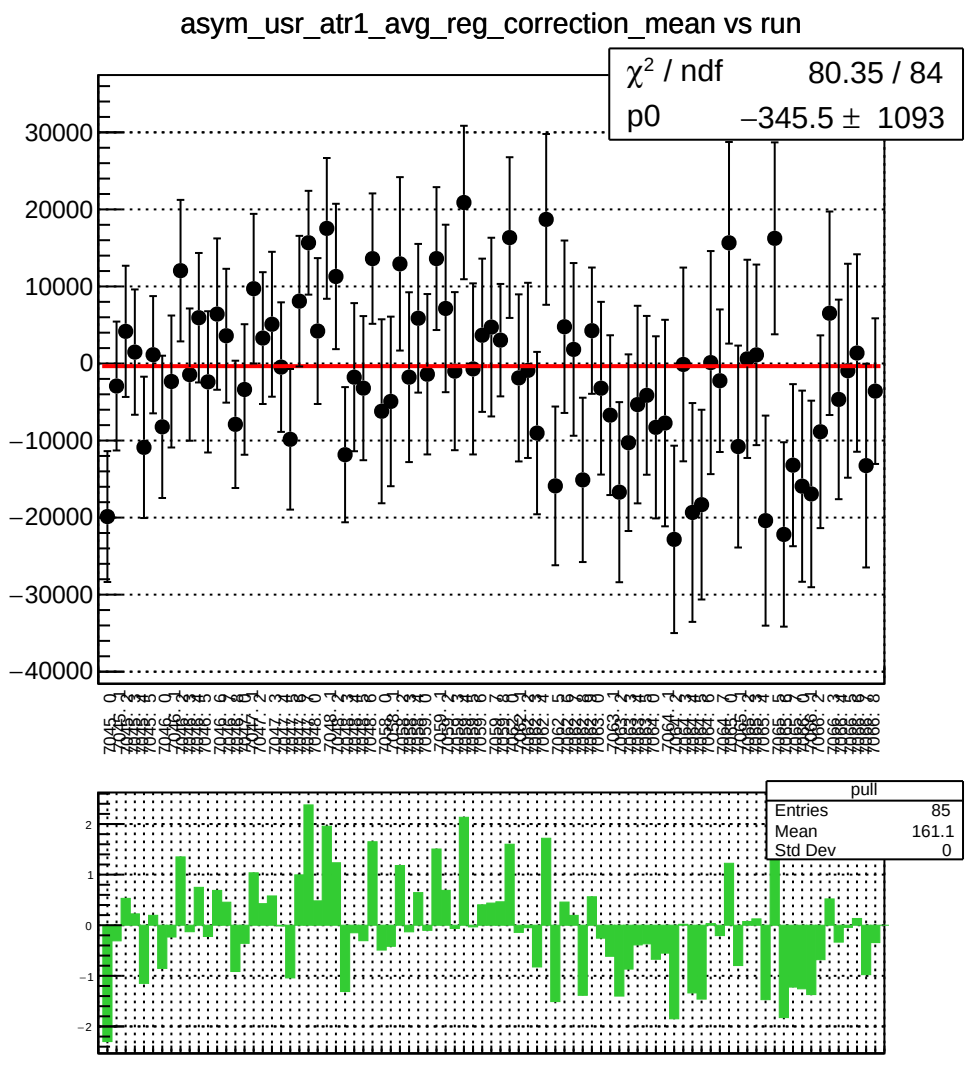

pull1D
Entries 85
Mean −0.1073
Std Dev 0.9672

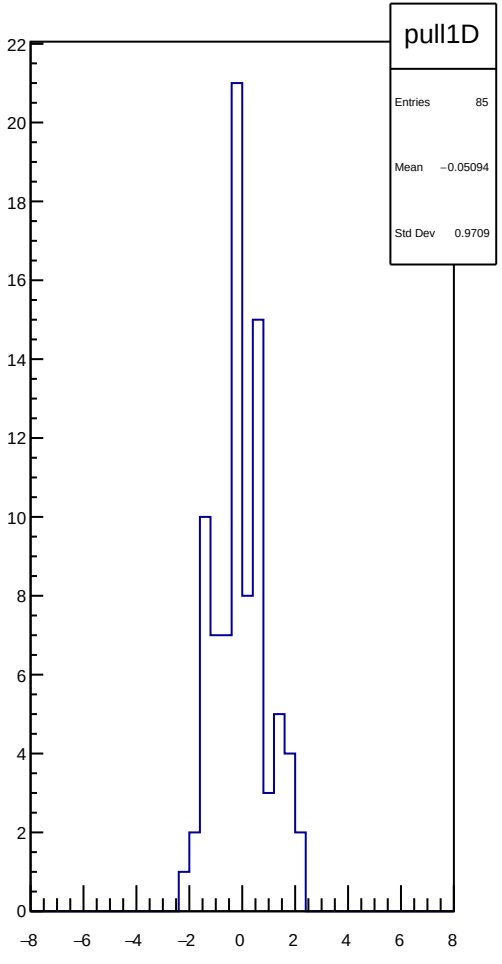

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.764e+05 / 84
p0 6.541e−11 ± 6.045e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

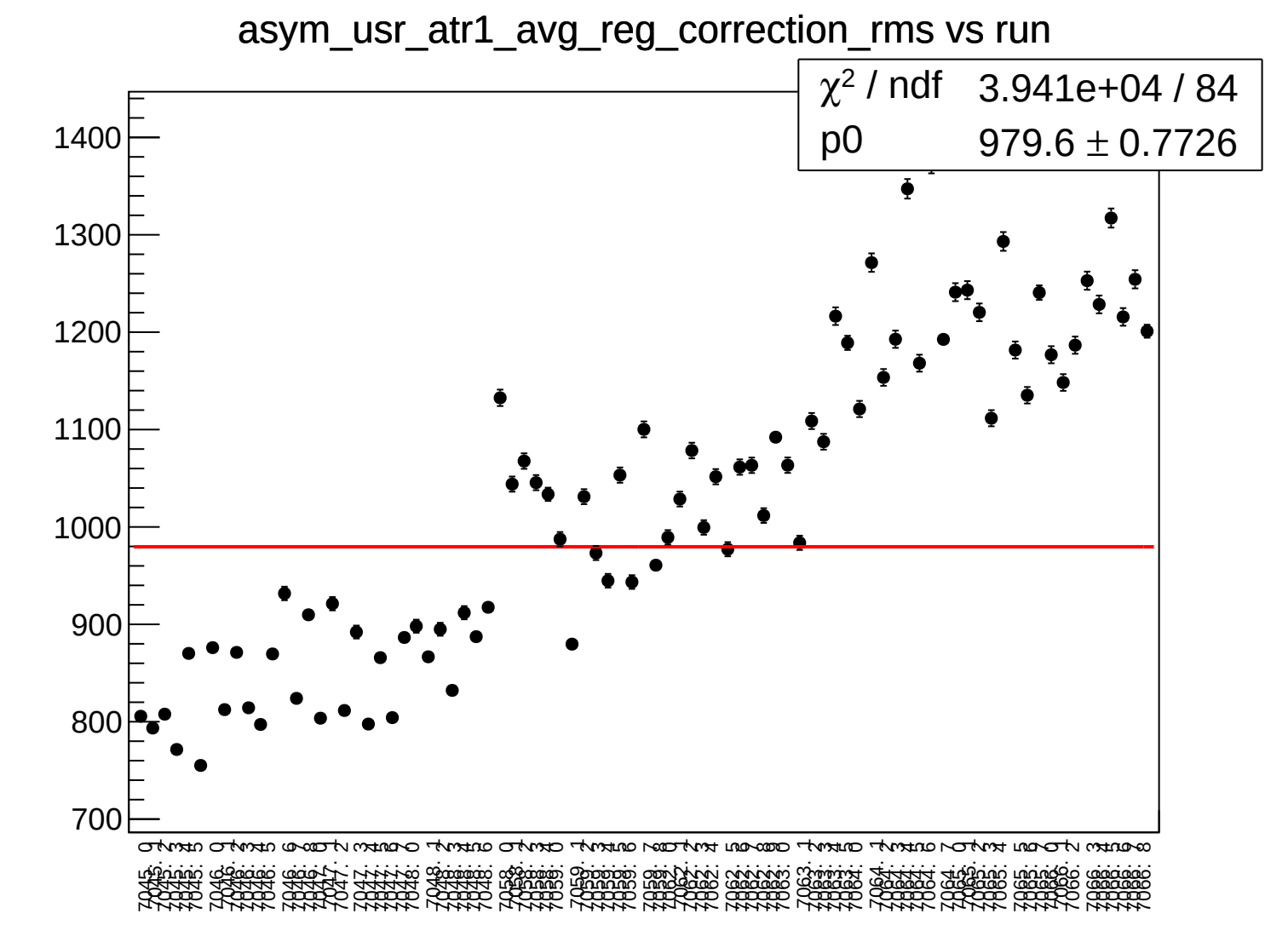

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.7 / 84
p0 −1432 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −645.4
Std Dev 0
3
2
1
0
−1
−2

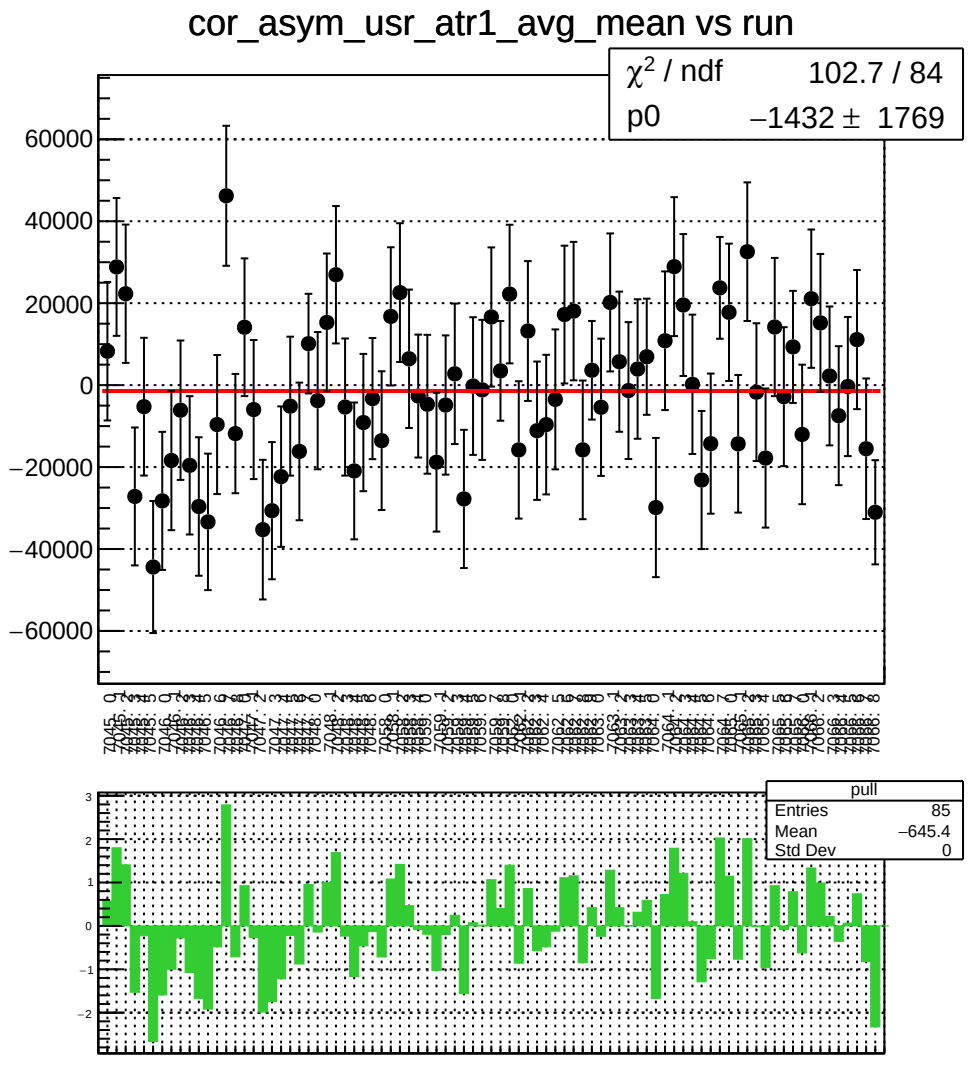

pull1D
Entries 85
Mean −0.007527
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

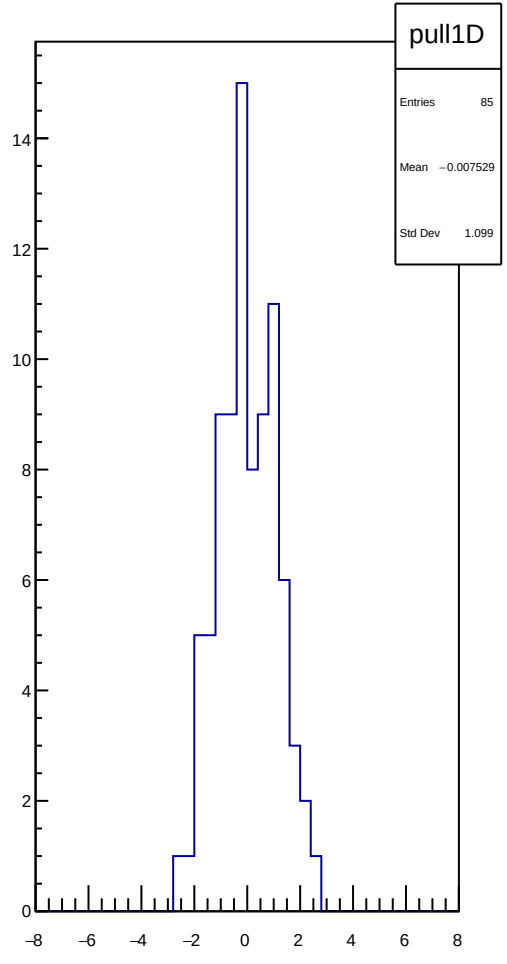

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 83.83 / 84
p0 1605 ± 1.251
1660
1640
1620
1600
1580
1560

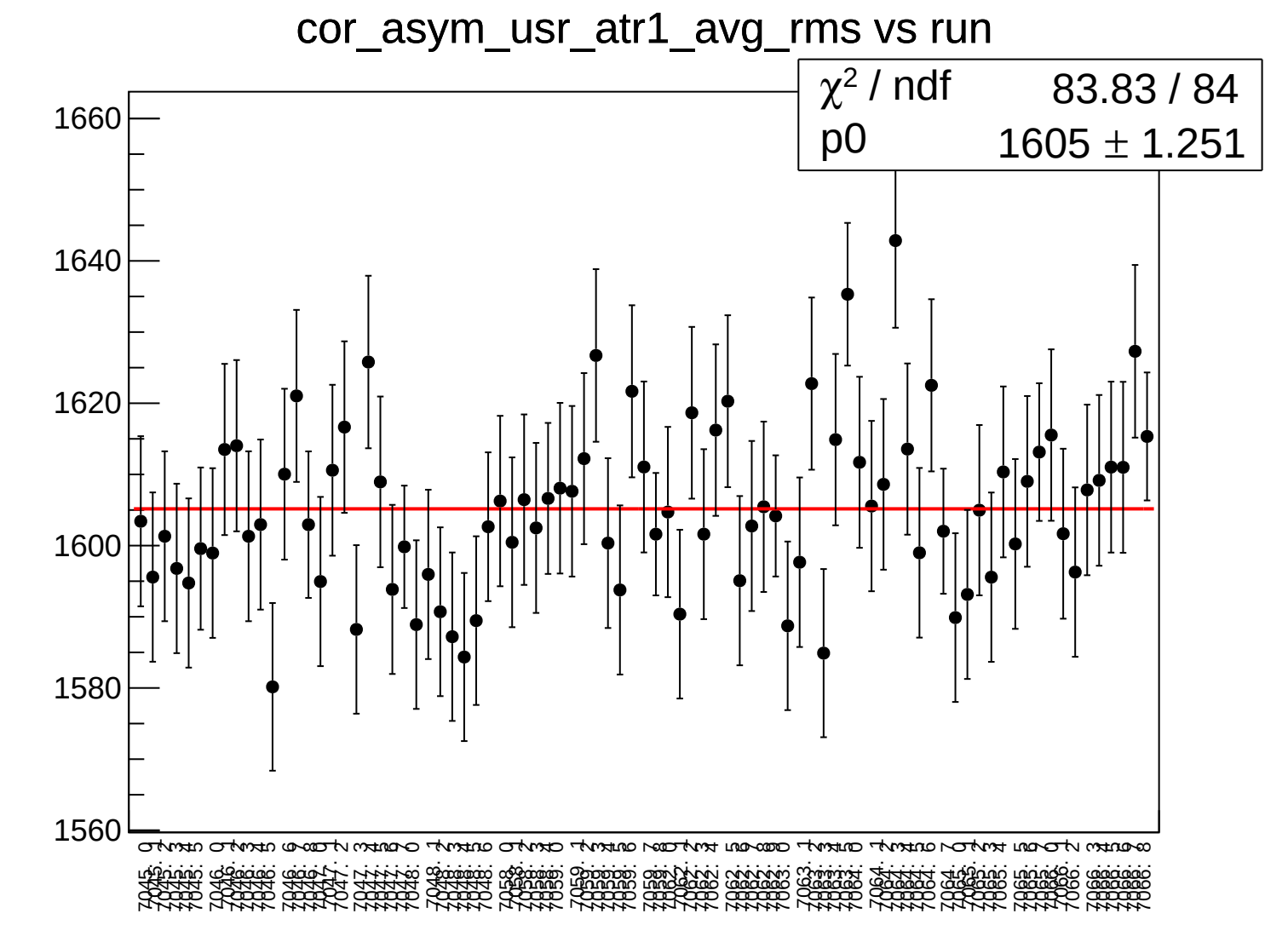

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 80.35 / 84
p0 −345.5 ± 1093
pull
Entries 85
Mean 161.1
Std Dev 0

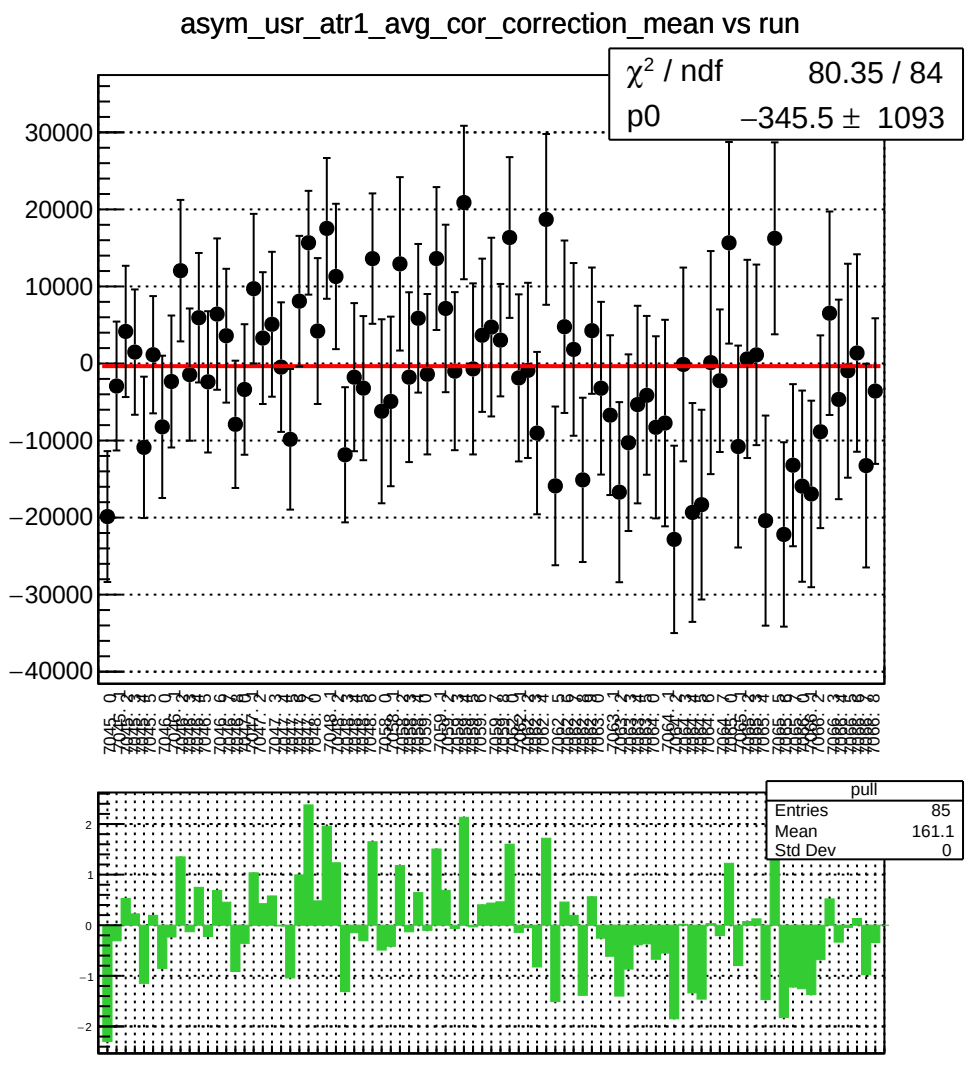

pull1D
Entries 85
Mean −0.05094
Std Dev 0.9709

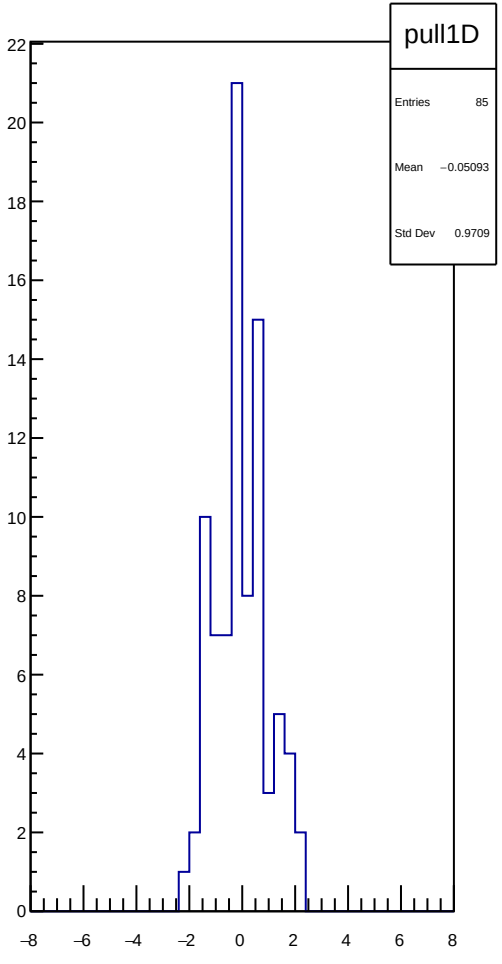

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3.941e+04 / 84
p0 979.6 ± 0.7726
1400
1300
1200
1100
1000
900
800
700

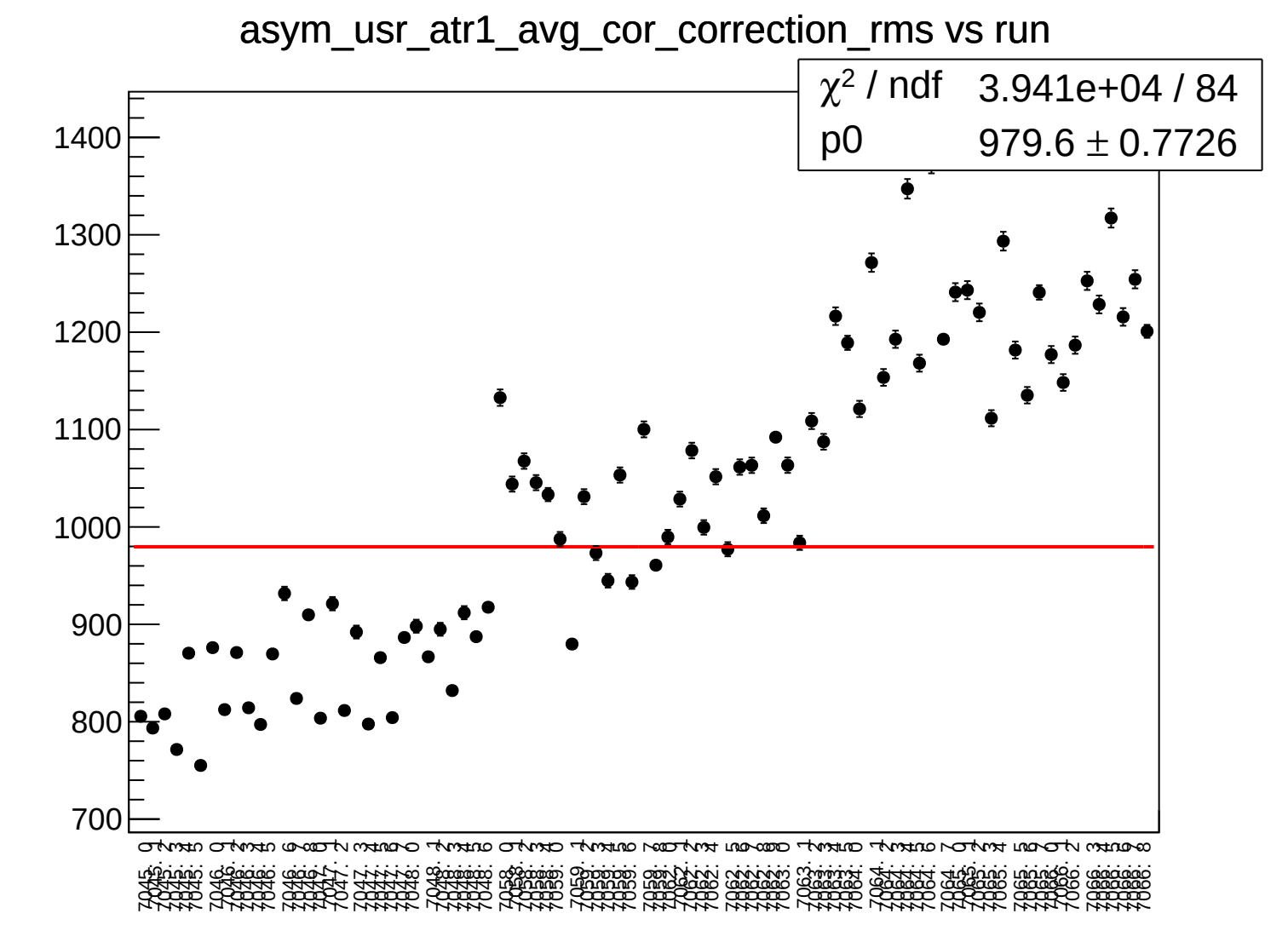

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.7 / 84
p0 −1432 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −645.4
Std Dev 0
3
2
1
0
−1
−2

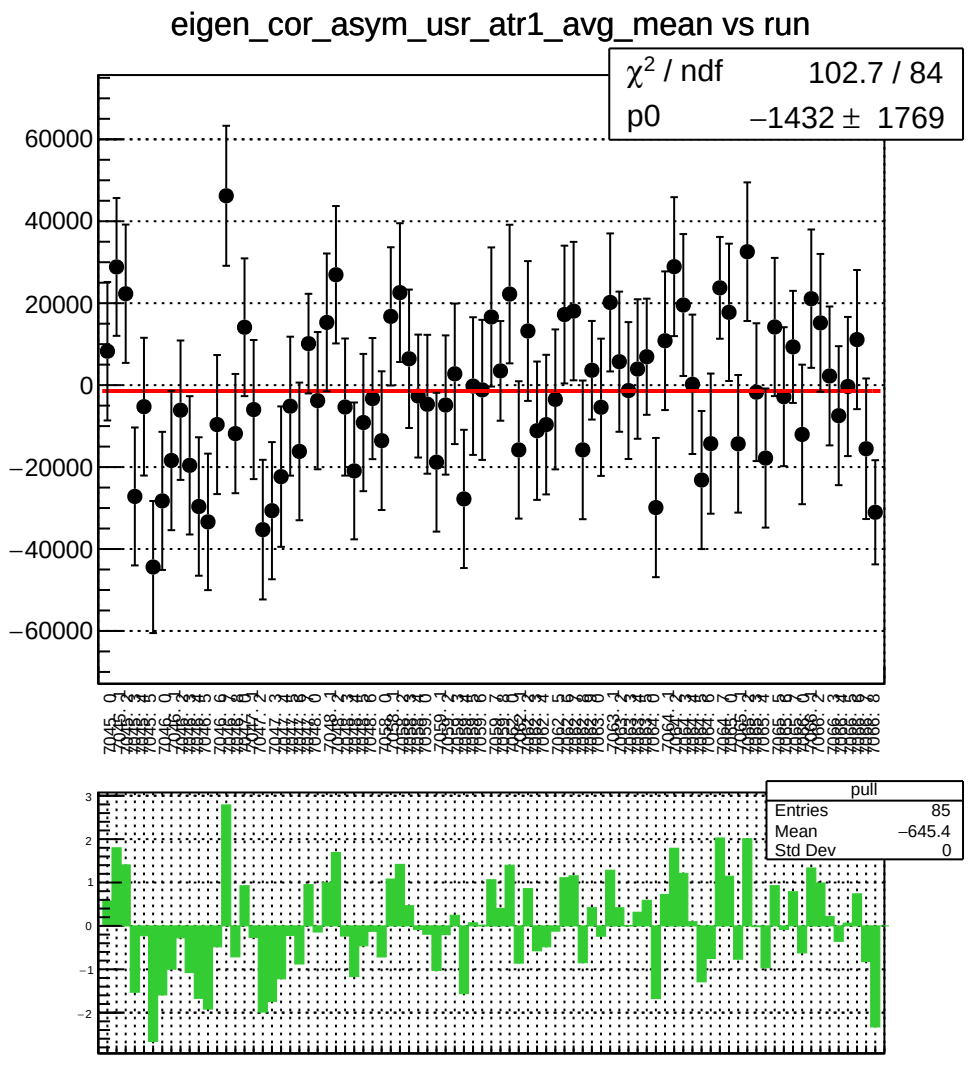

pull1D
Entries 85
Mean −0.007529
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

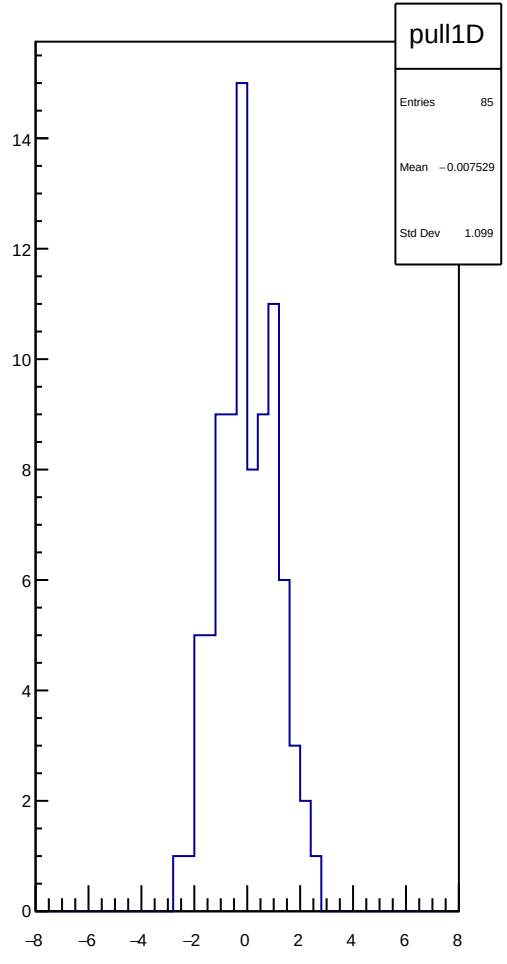

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 83.83 / 84
p0 1605 ± 1.251
1660
1640
1620
1600
1580
1560

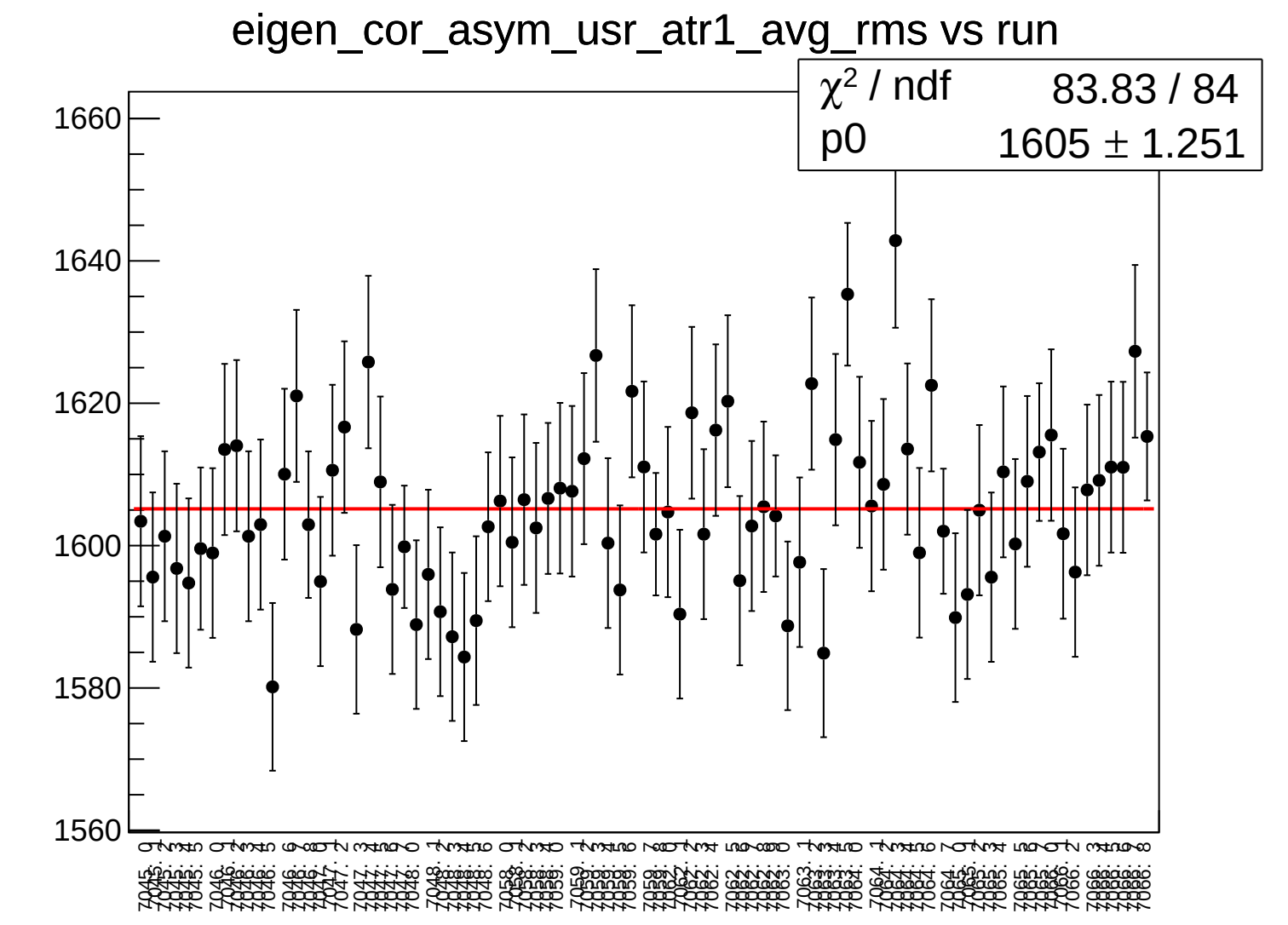

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 80.35 / 84
p0 −345.5 ± 1093
pull
Entries 85
Mean 161.1
Std Dev 0

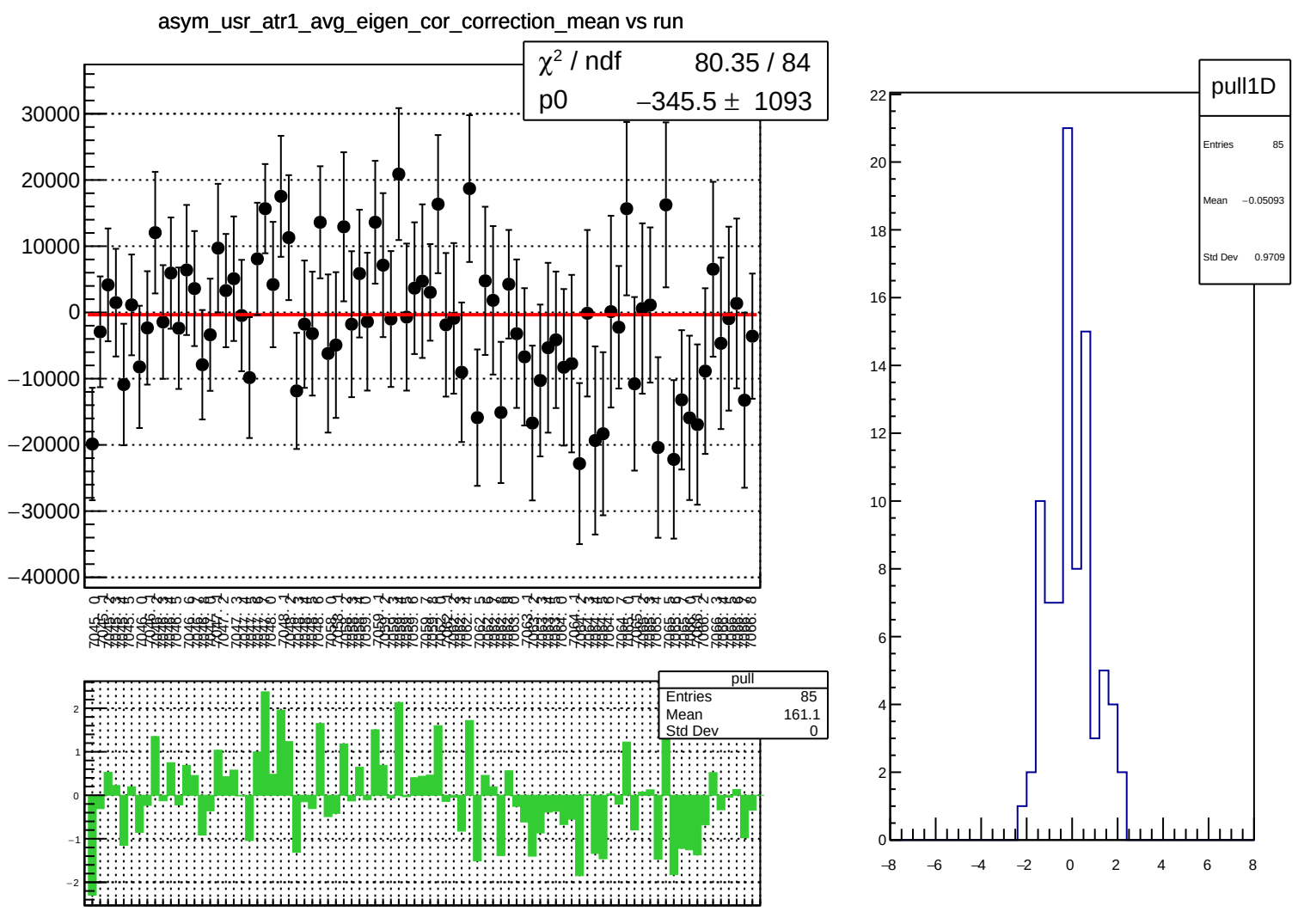

pull1D
Entries 85
Mean −0.05093
Std Dev 0.9709

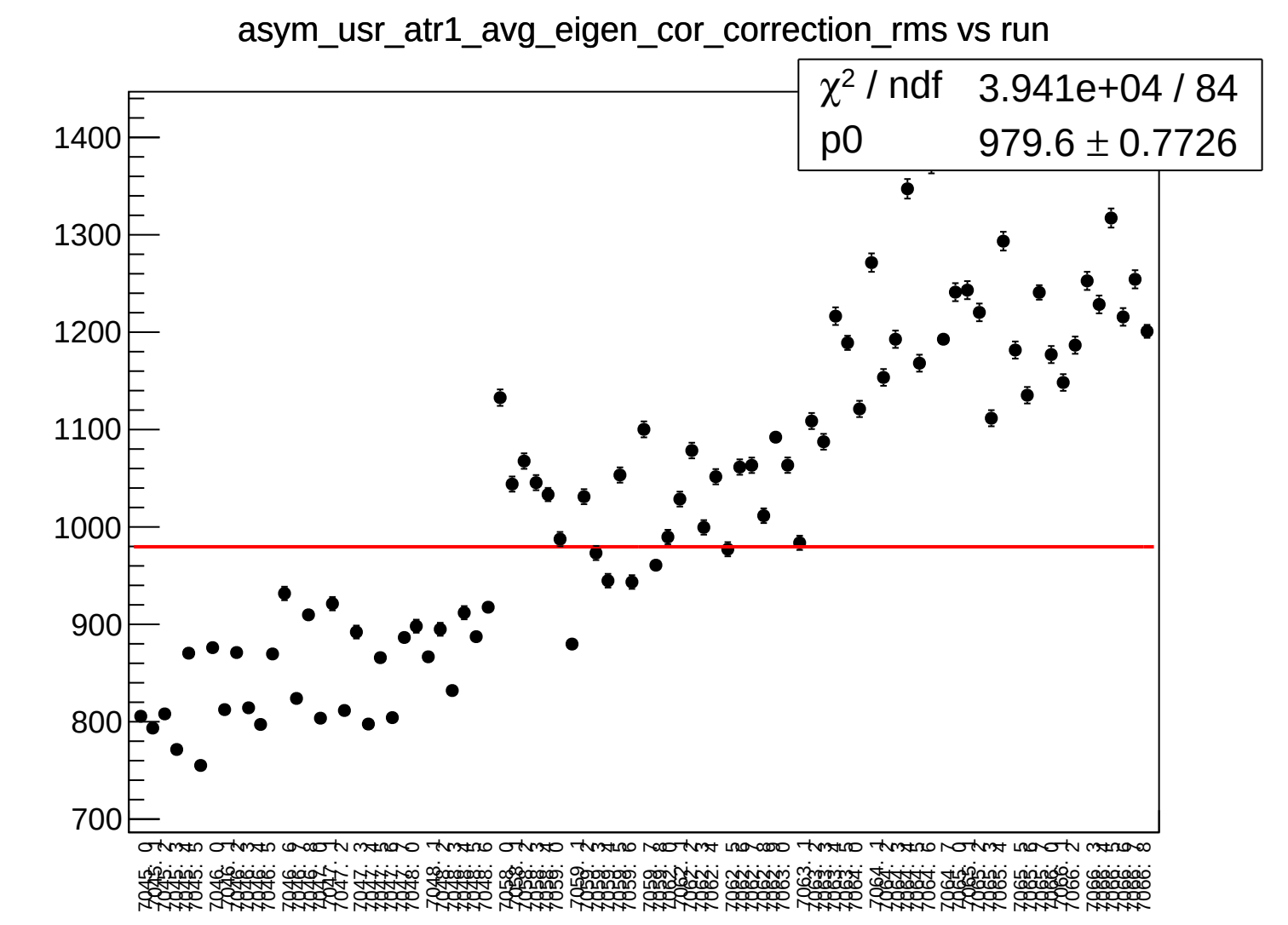

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 3.941e+04 / 84
p0 979.6 ± 0.7726
1400
1300
1200
1100
1000
900
800
700

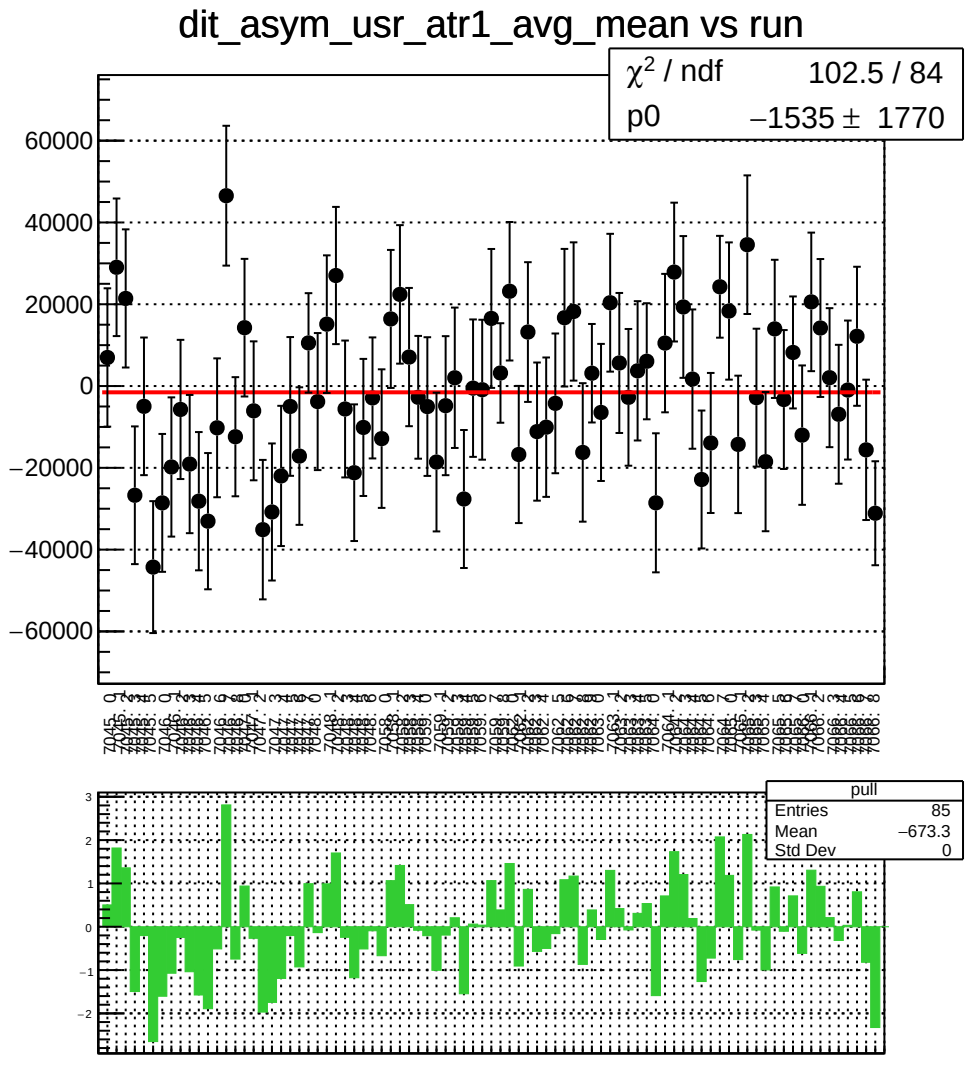

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.7 / 84
p0 −1432 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −645.4
Std Dev 0
3
2
1
0
−1
−2

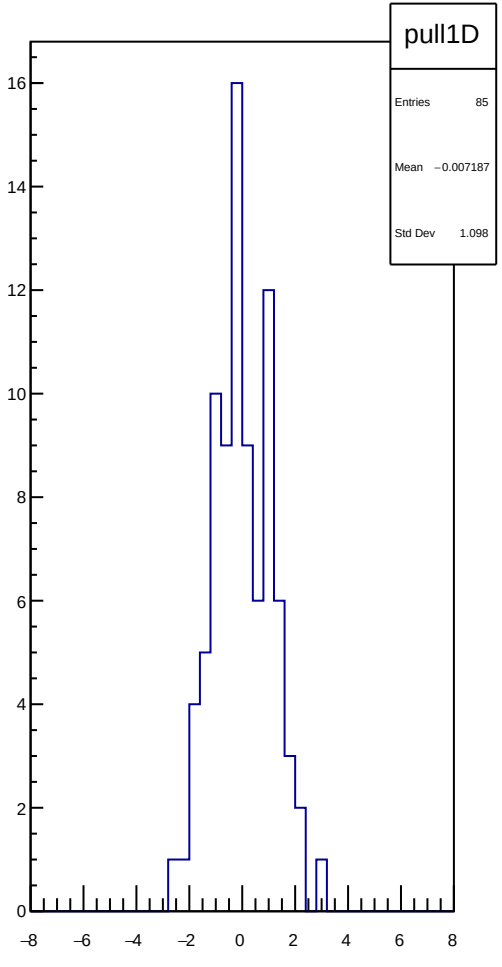

pull1D
Entries 85
Mean −0.007529
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

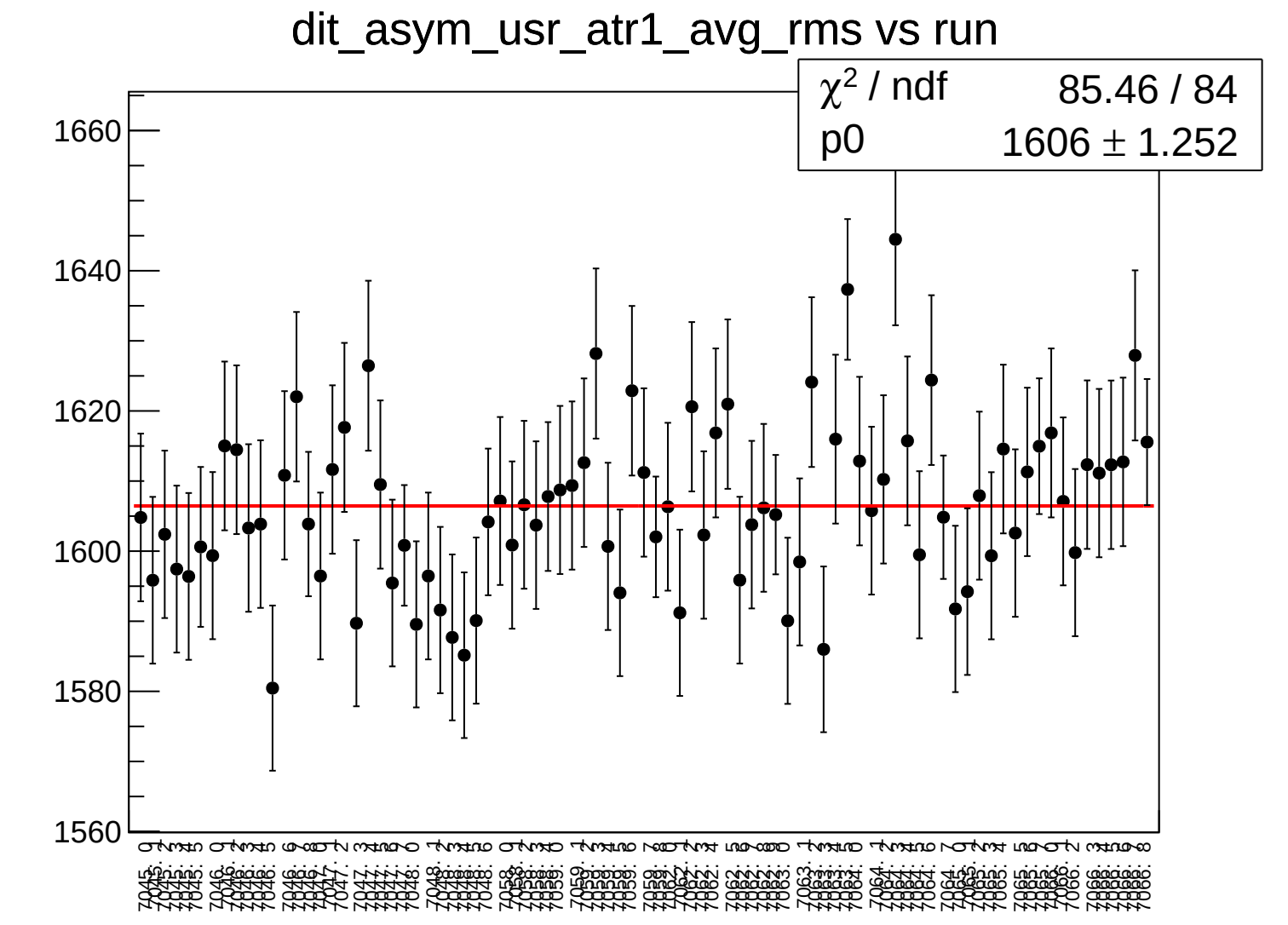

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 83.83 / 84
p0 1605 ± 1.251
1660
1640
1620
1600
1580
1560

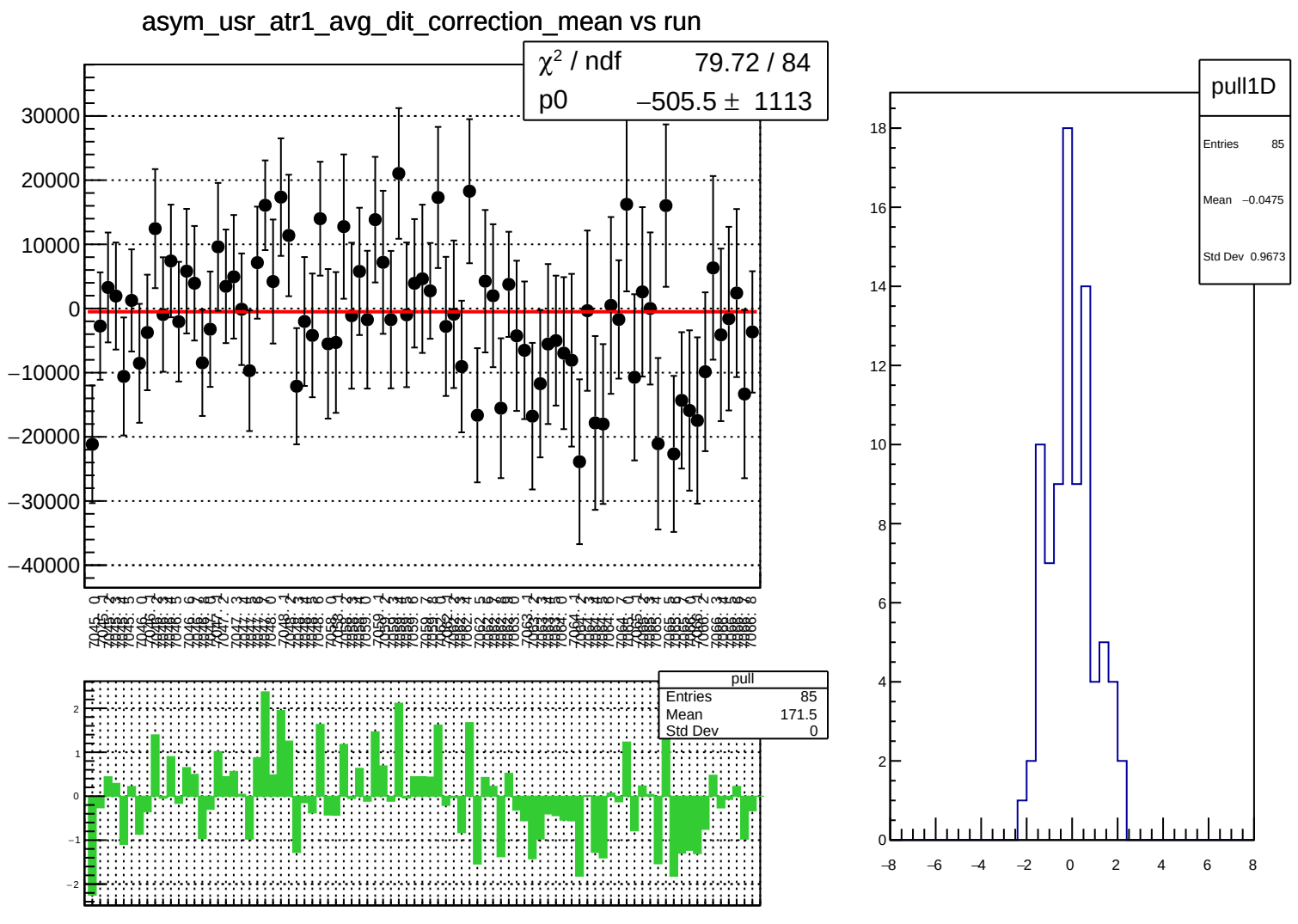

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.35 / 84
p0 −345.5 ± 1093
pull
Entries 85
Mean 161.1
Std Dev 0
pull1D
Entries 85
Mean −0.05093
Std Dev 0.9709

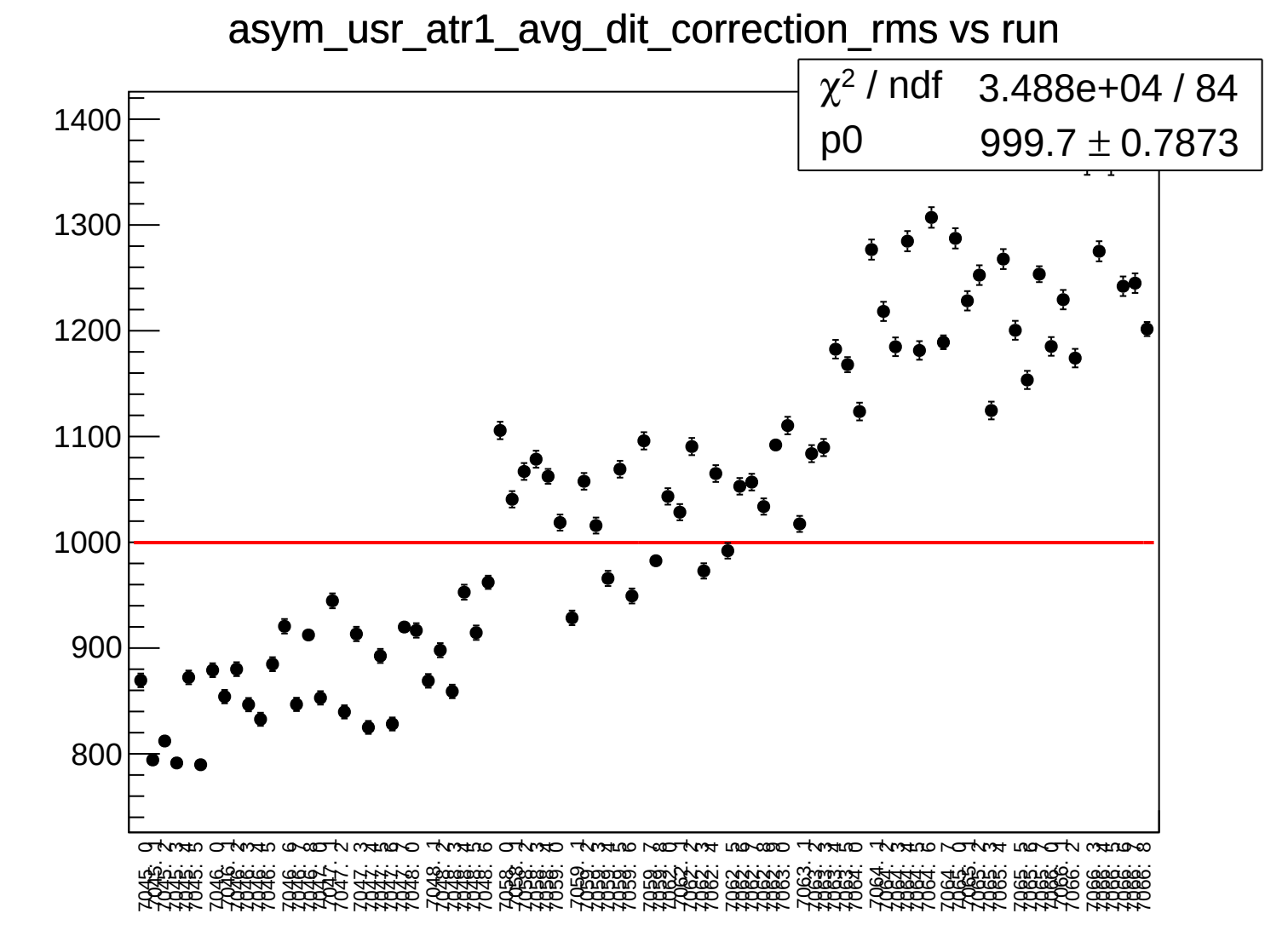

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.941e+04 / 84
p0 979.6 ± 0.7726
1400
1300
1200
1100
1000
900
800
700

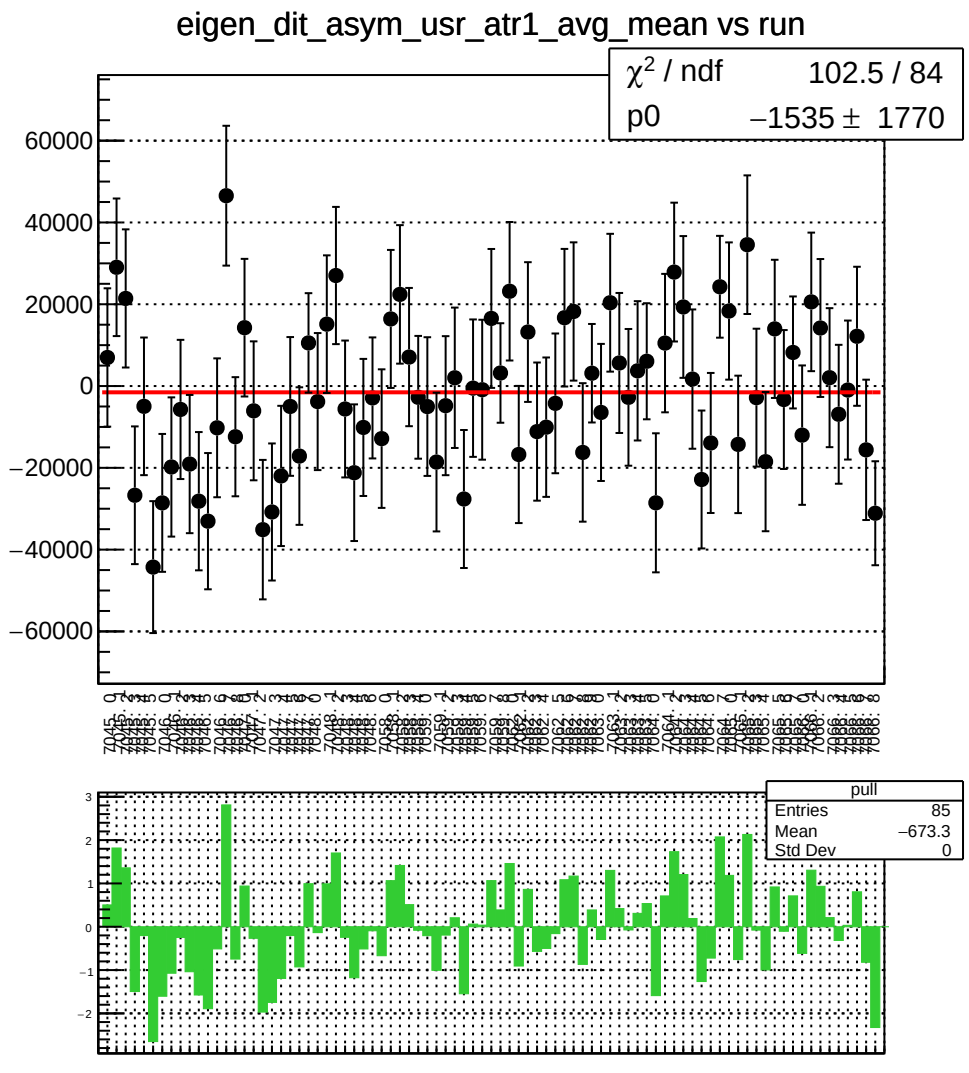

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.5 / 84
p0 −1535 ± 1770
pull
Entries 85
Mean −673.3
Std Dev 0

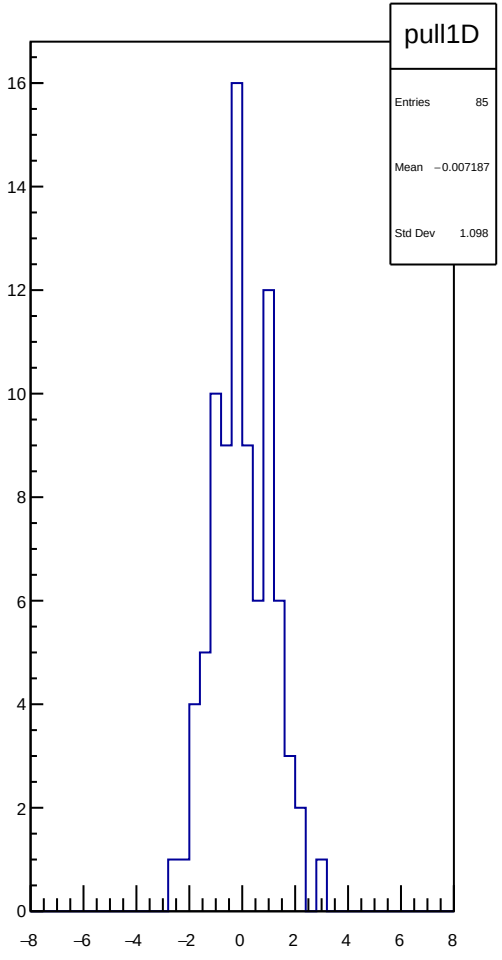

pull1D
Entries 85
Mean −0.007187
Std Dev 1.098

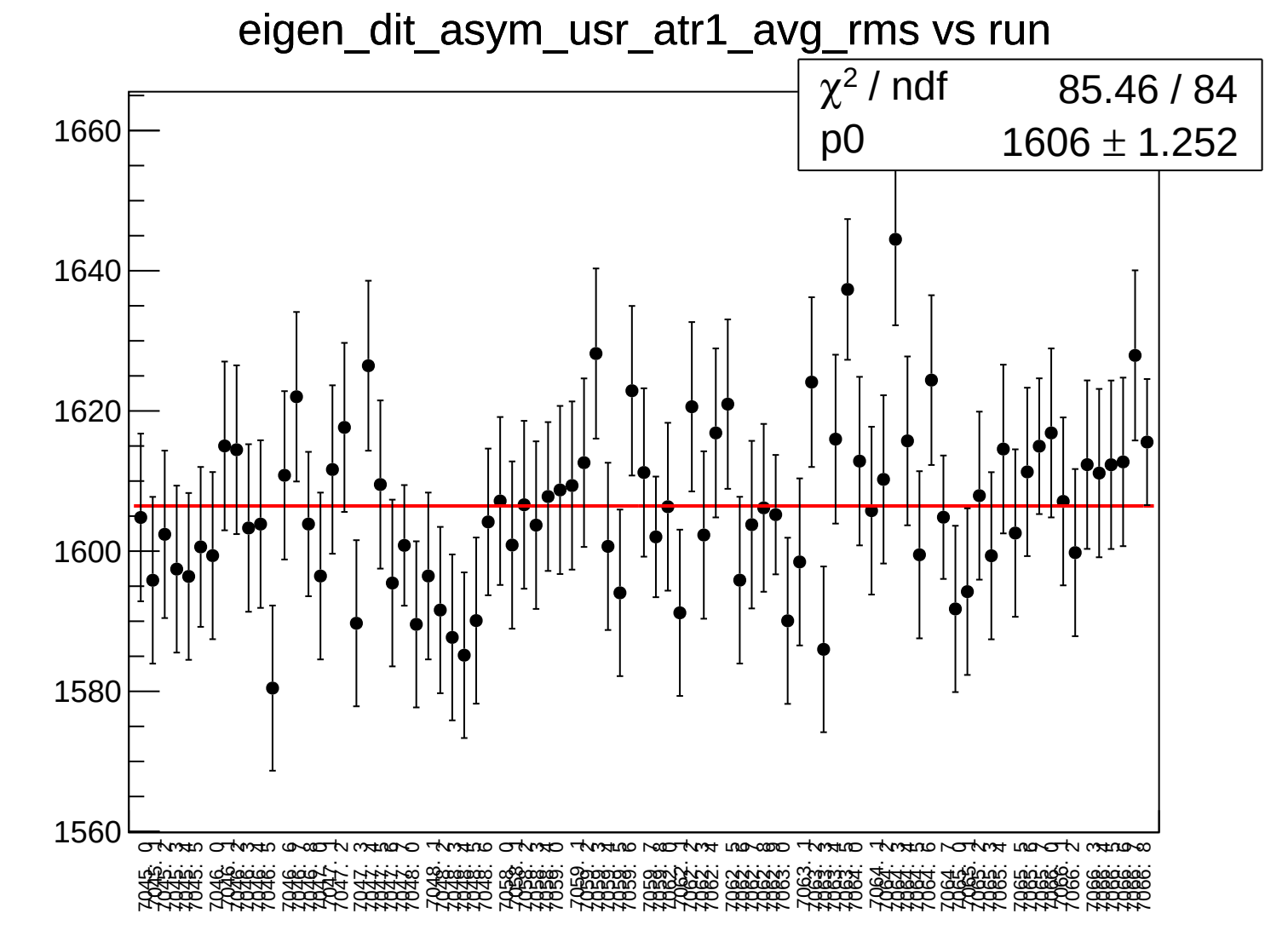

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 85.46 / 84
p0 1606 ± 1.252
1660
1640
1620
1600
1580
1560

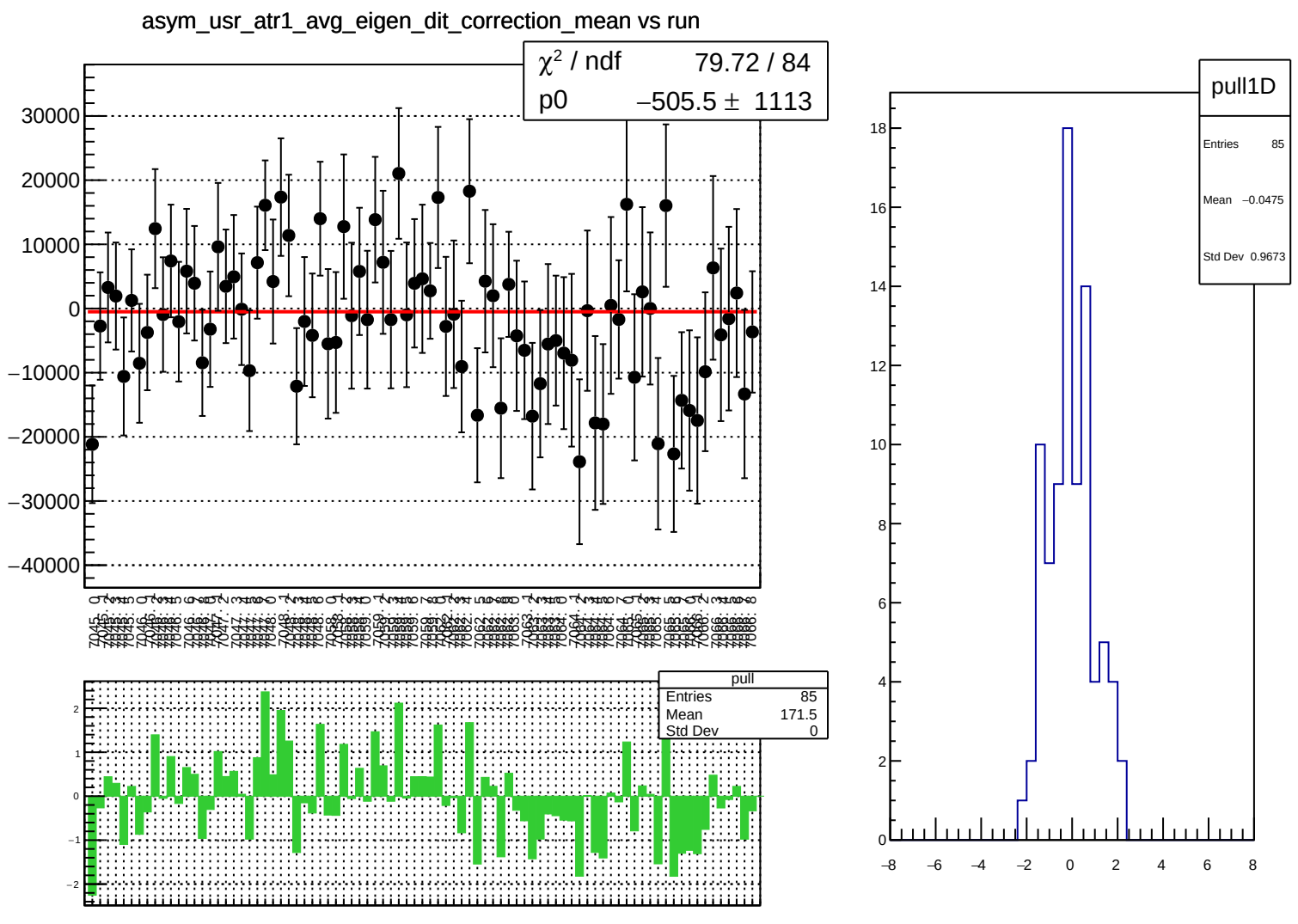

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 79.72 / 84
p0 −505.5 ± 1113
pull
Entries 85
Mean 171.5
Std Dev 0
pull1D
Entries 85
Mean −0.0475
Std Dev 0.9673

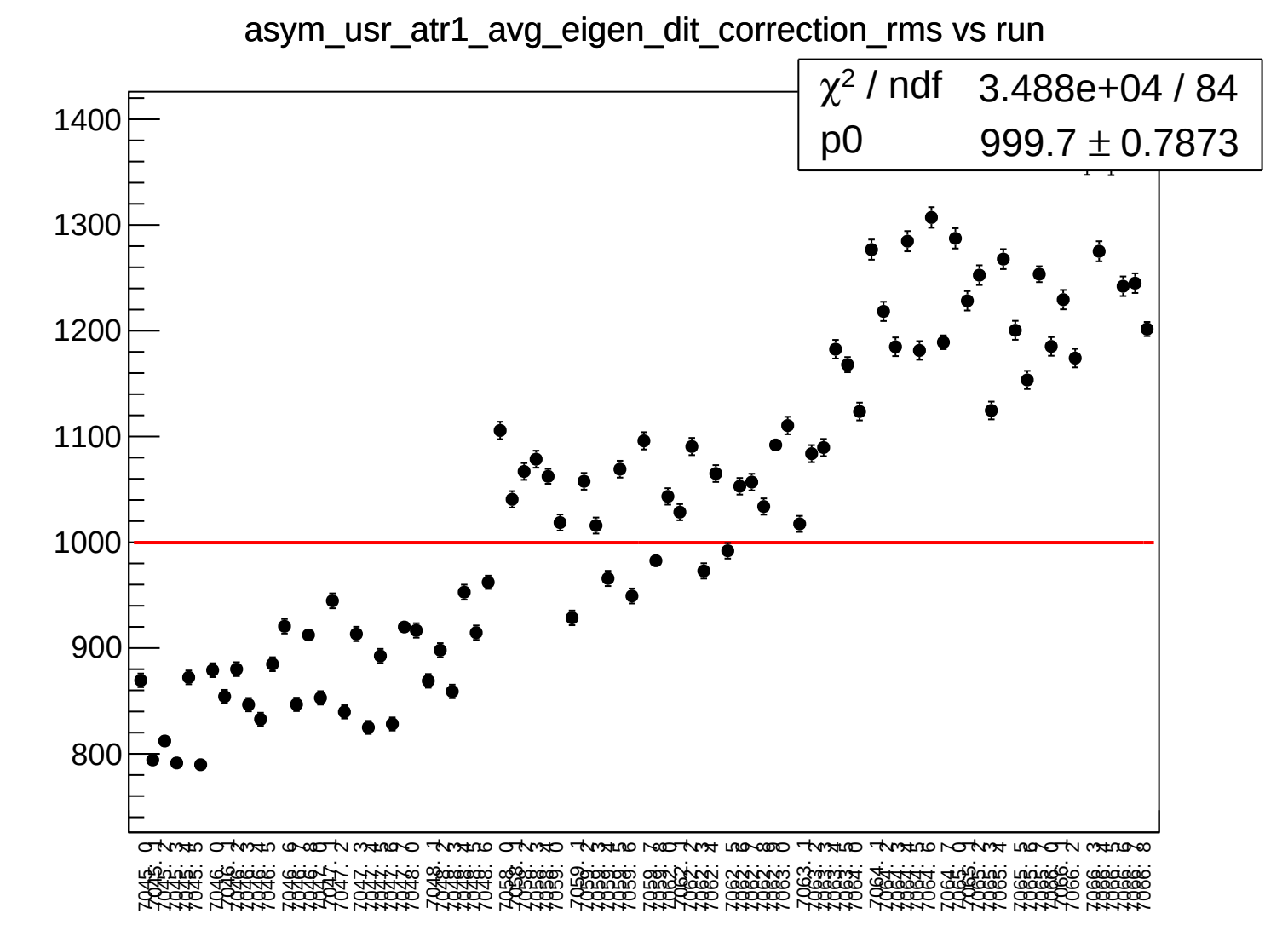

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 3.488e+04 / 84
p0 999.7 ± 0.7873
1400
1300
1200
1100
1000
900
800

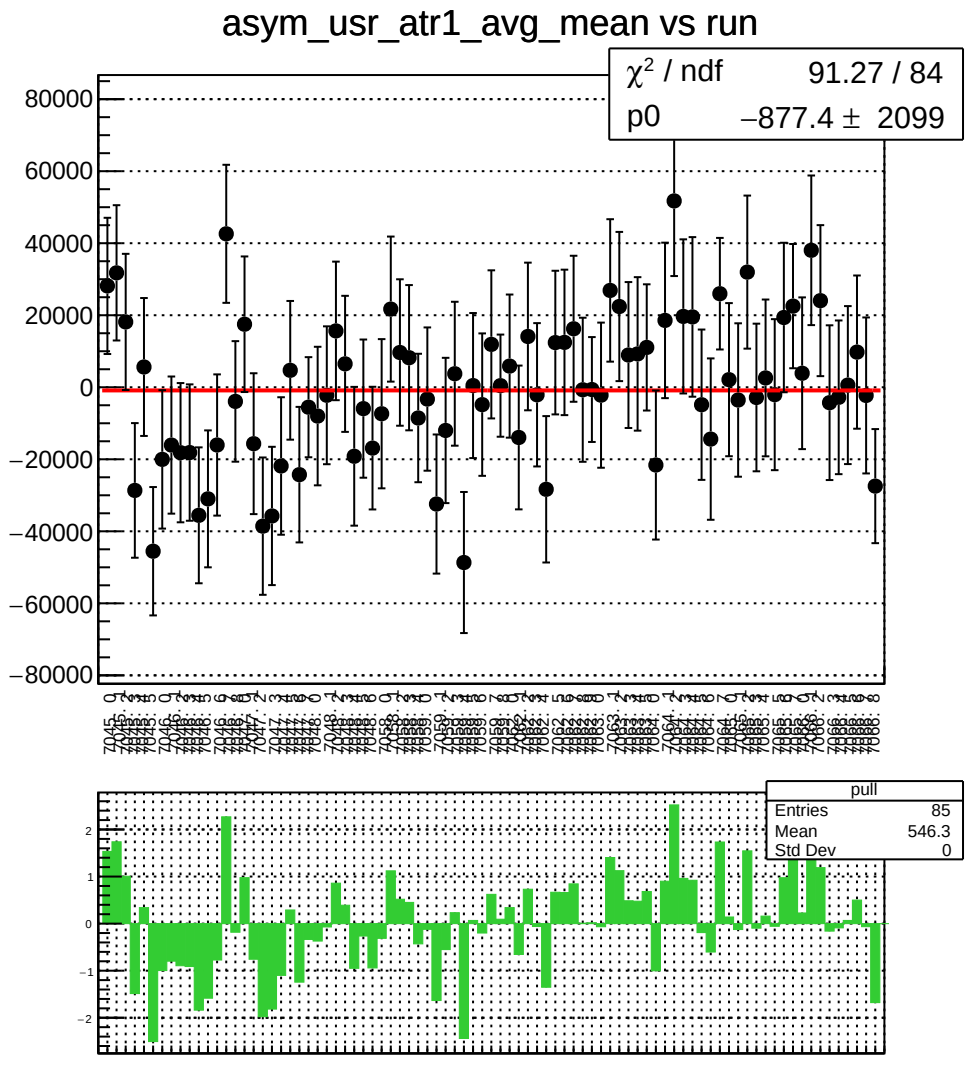

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.5 / 84
p0 −1535 ± 1770
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −673.3
Std Dev 0
3
2
1
0
−1
−2

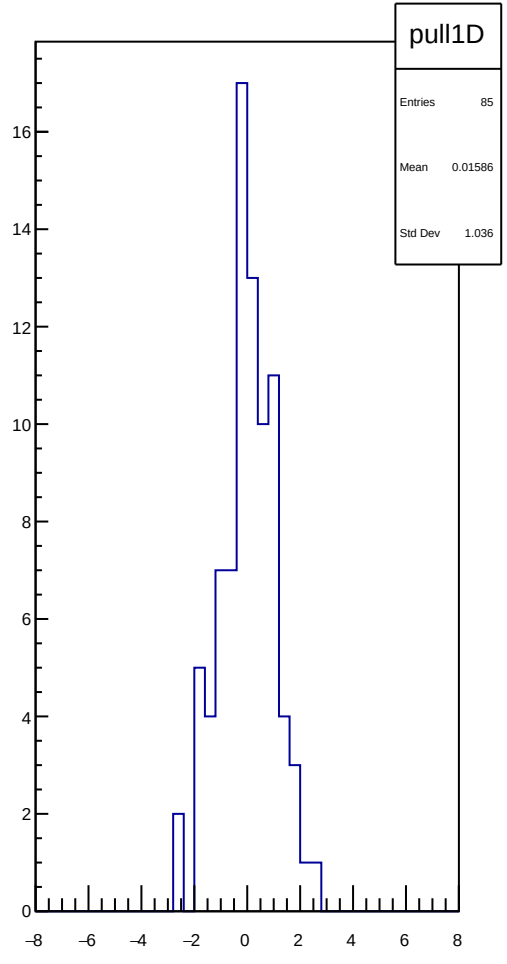

pull1D
Entries 85
Mean −0.007187
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

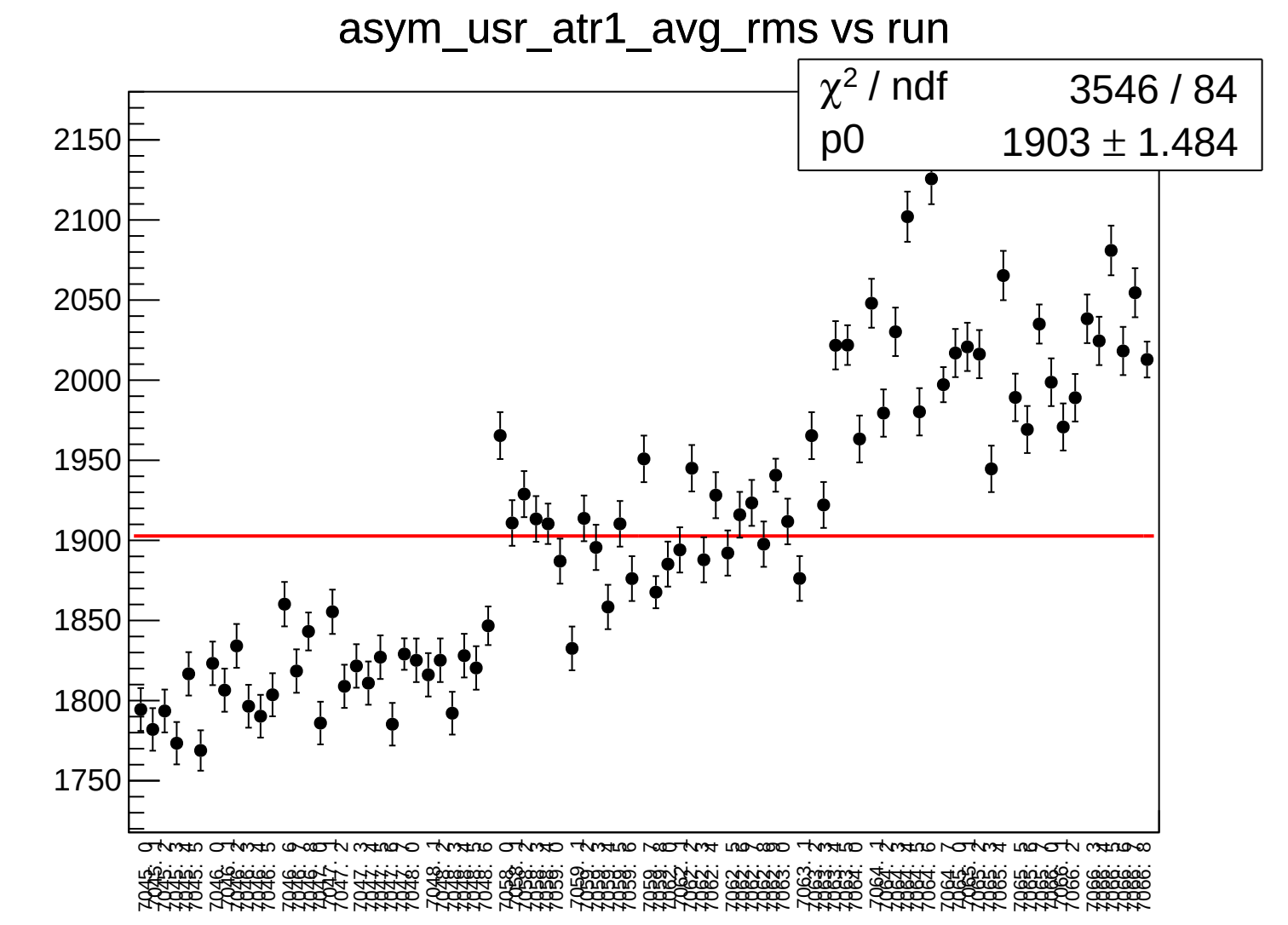

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 85.46 / 84
p0 1606 ± 1.252
1660
1640
1620
1600
1580
1560

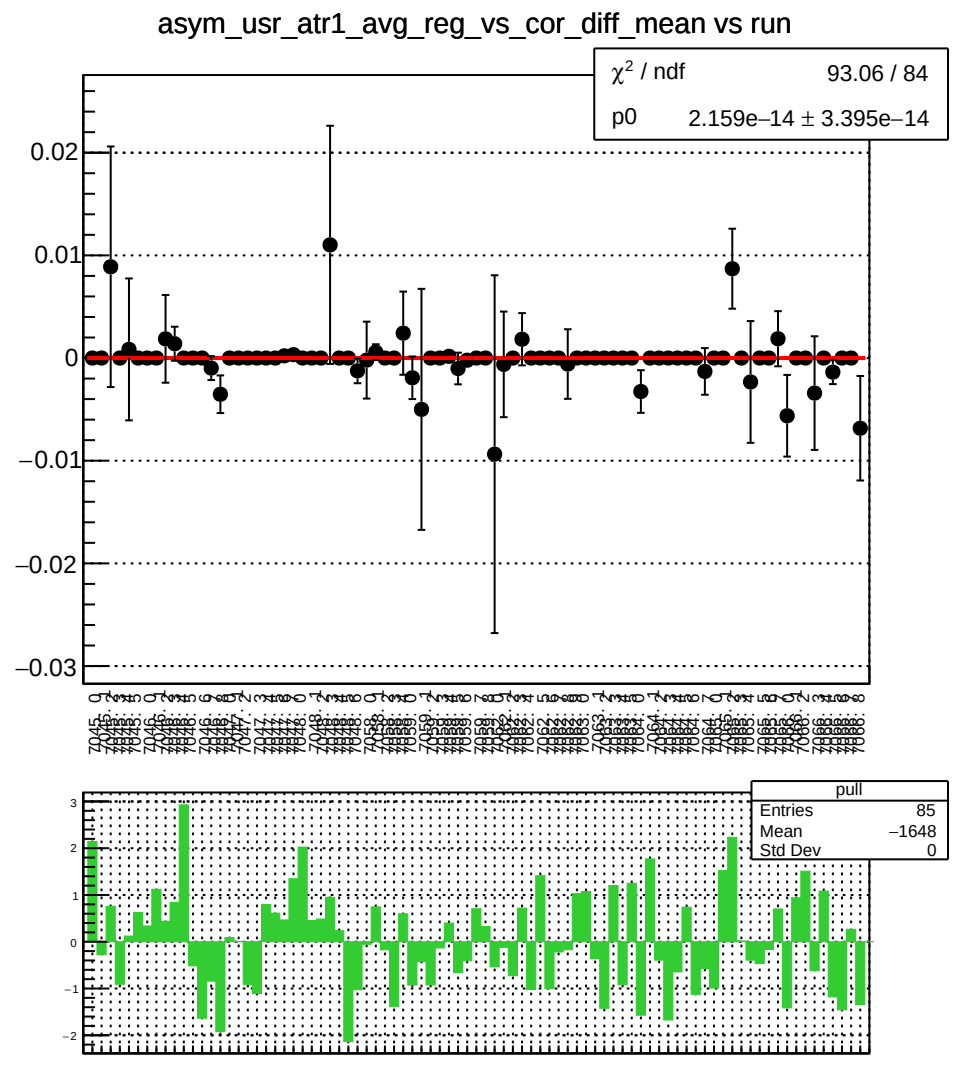

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.72 / 84
p0 −505.5 ± 1113
pull
Entries 85
Mean 171.5
Std Dev 0
pull1D
Entries 85
Mean −0.0475
Std Dev 0.9673

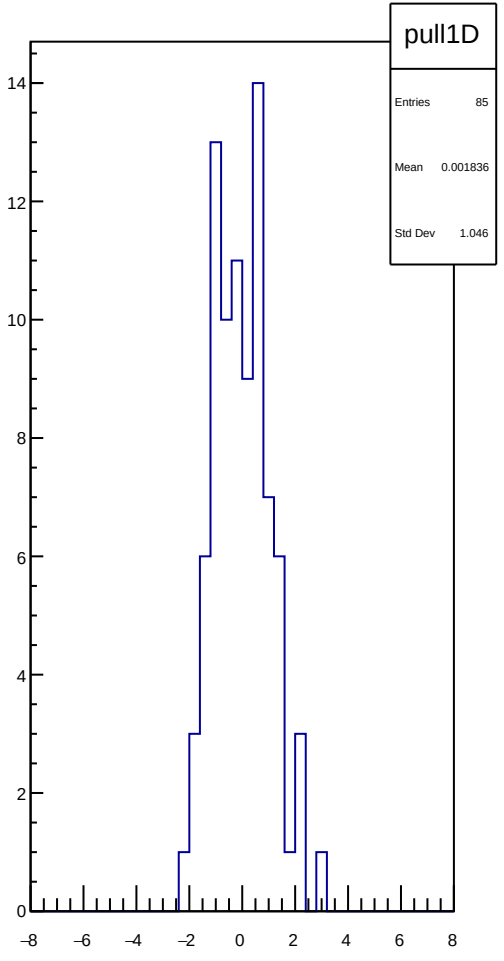

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.488e+04 / 84
p0 999.7 ± 0.7873
1400
1300
1200
1100
1000
900
800

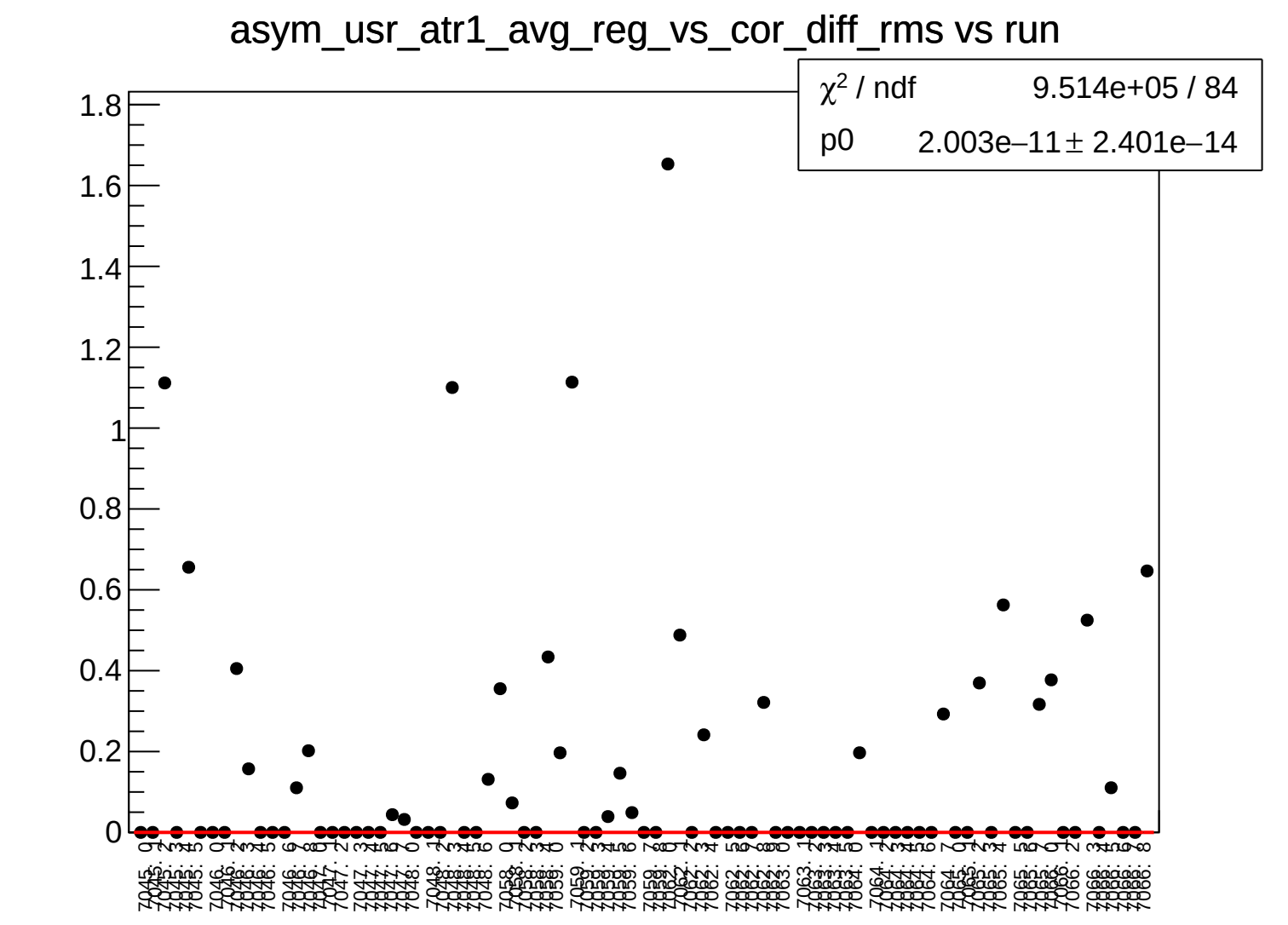

asym_usr_atr1_avg_mean vs run
χ² / ndf 91.27 / 84
p0 −877.4 ± 2099
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 546.3
Std Dev 0
2
1
0
−1
−2

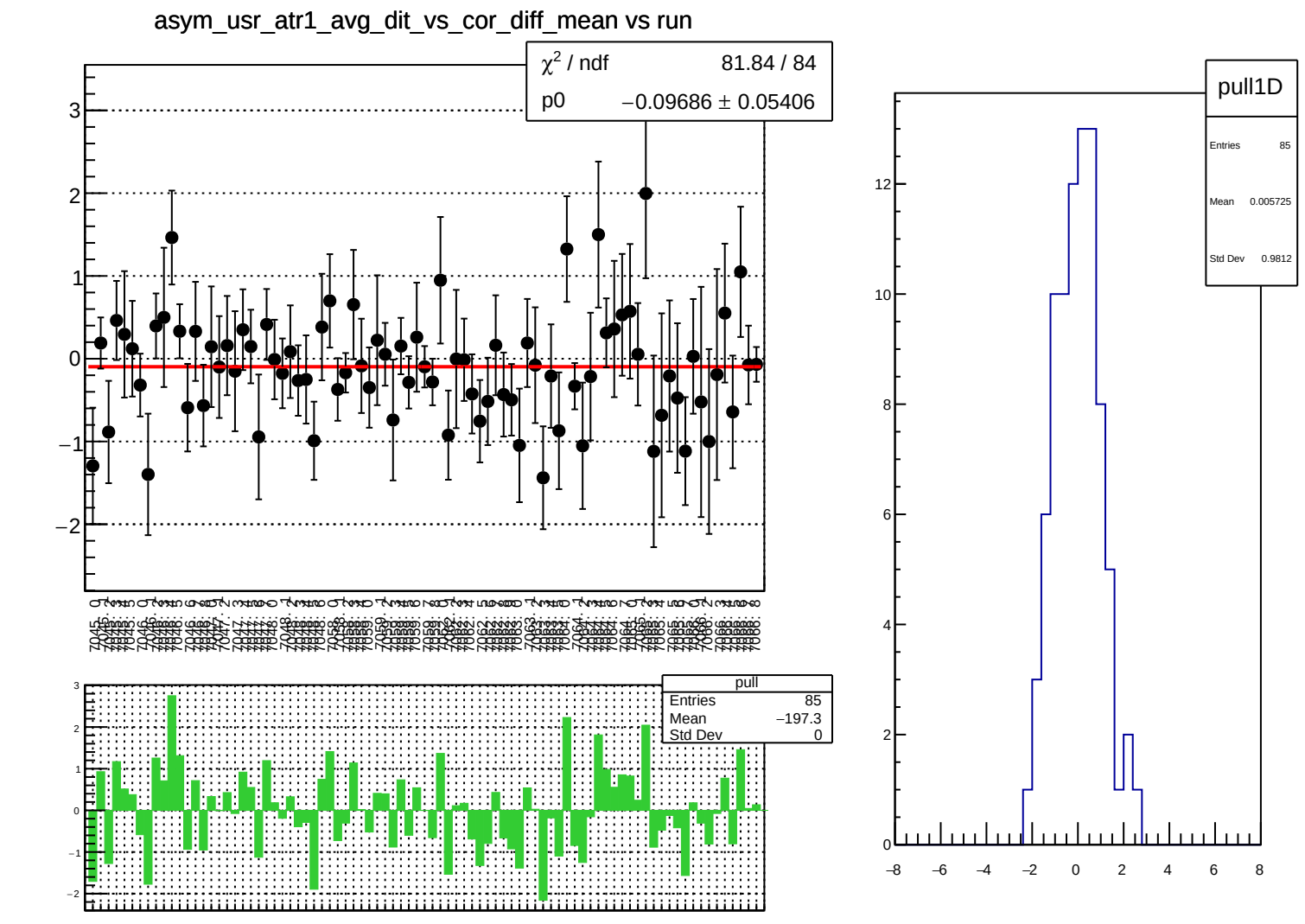

pull1D
Entries 85
Mean 0.01586
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

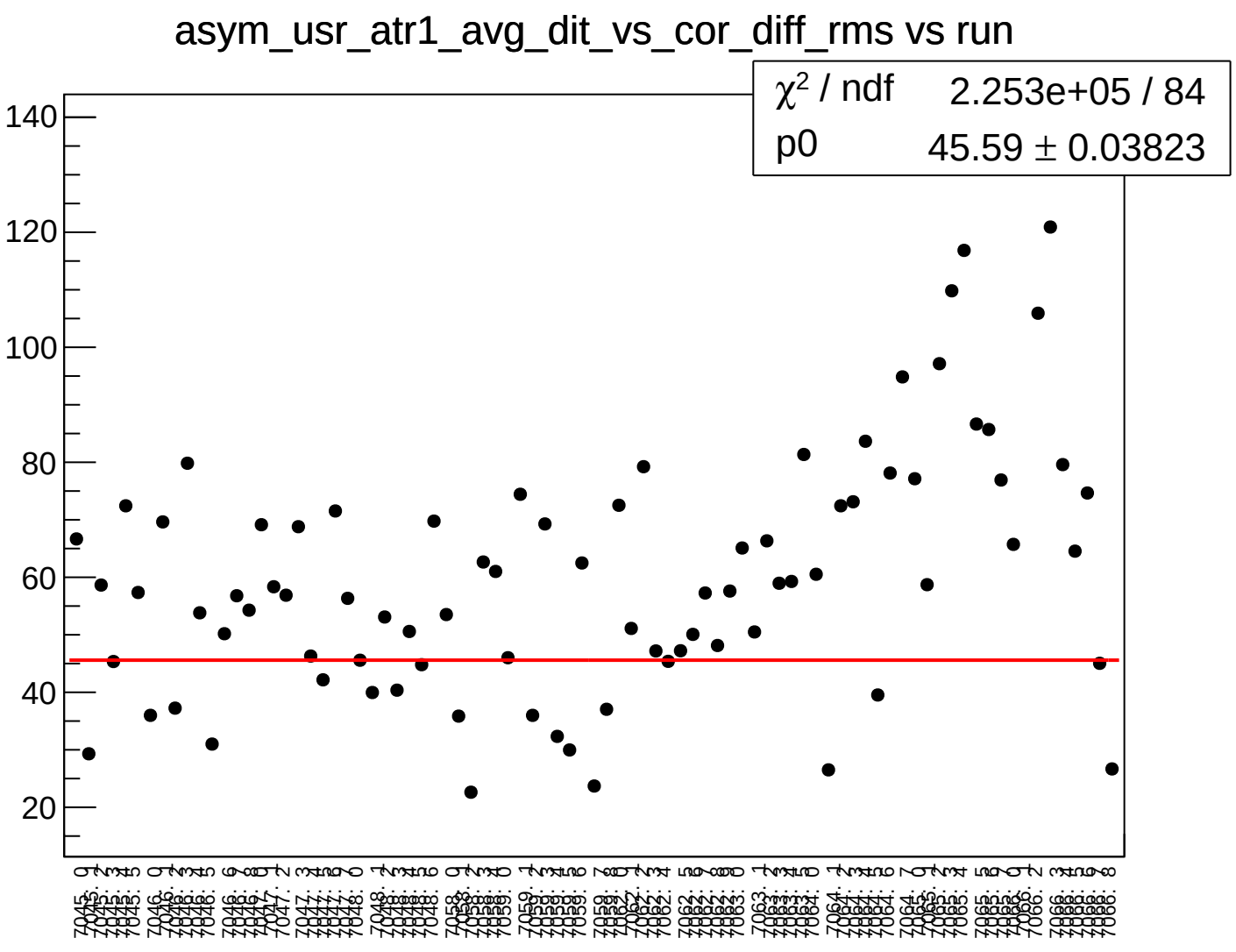

asym_usr_atr1_avg_rms vs run
χ² / ndf 3546 / 84
p0 1903 ± 1.484
2150
2100
2050
2000
1950
1900
1850
1800
1750

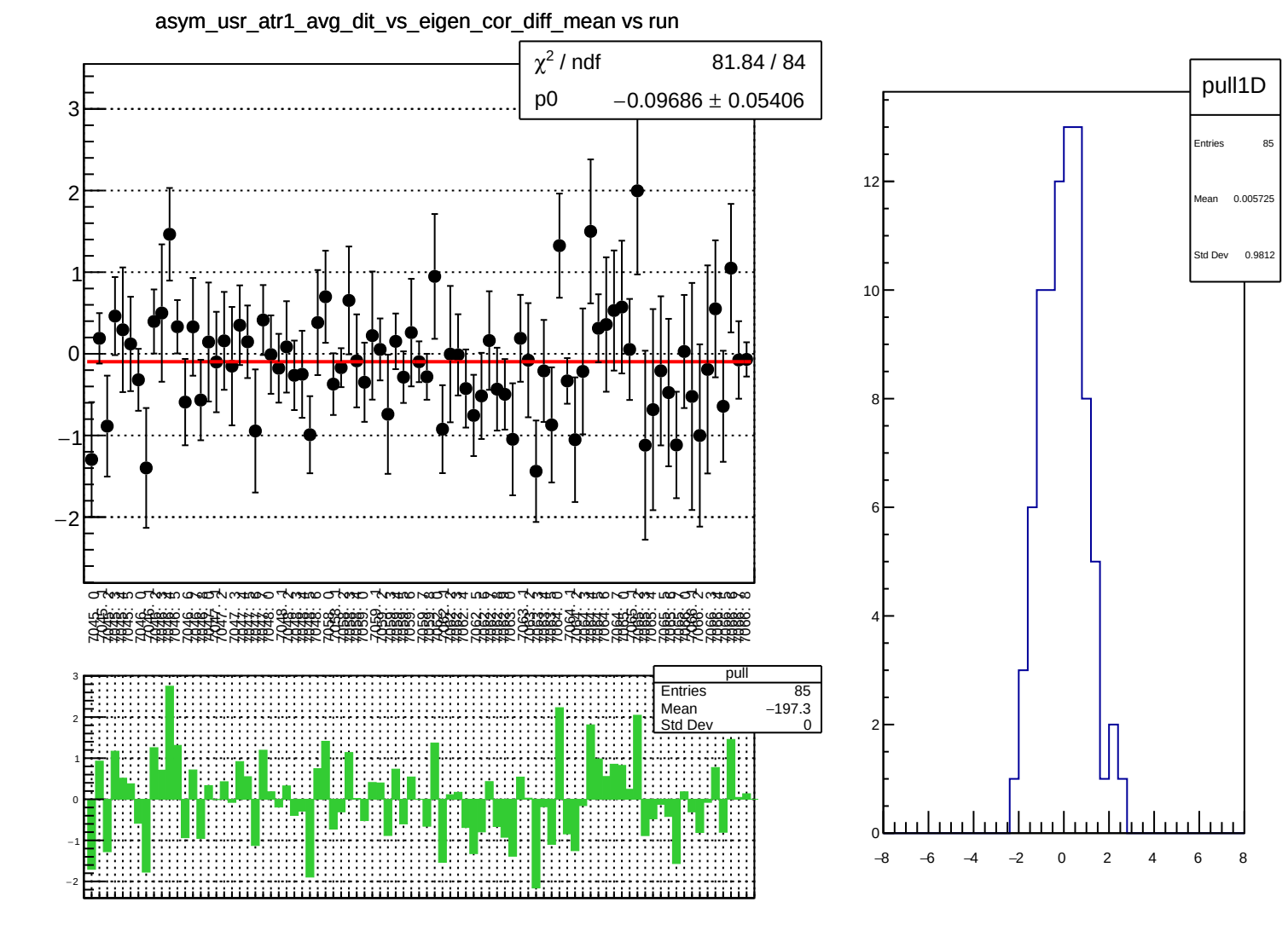

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.06 / 84
p0 2.159e−14 ± 3.395e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −1648
Std Dev 0
3
2
1
0
−1
−2

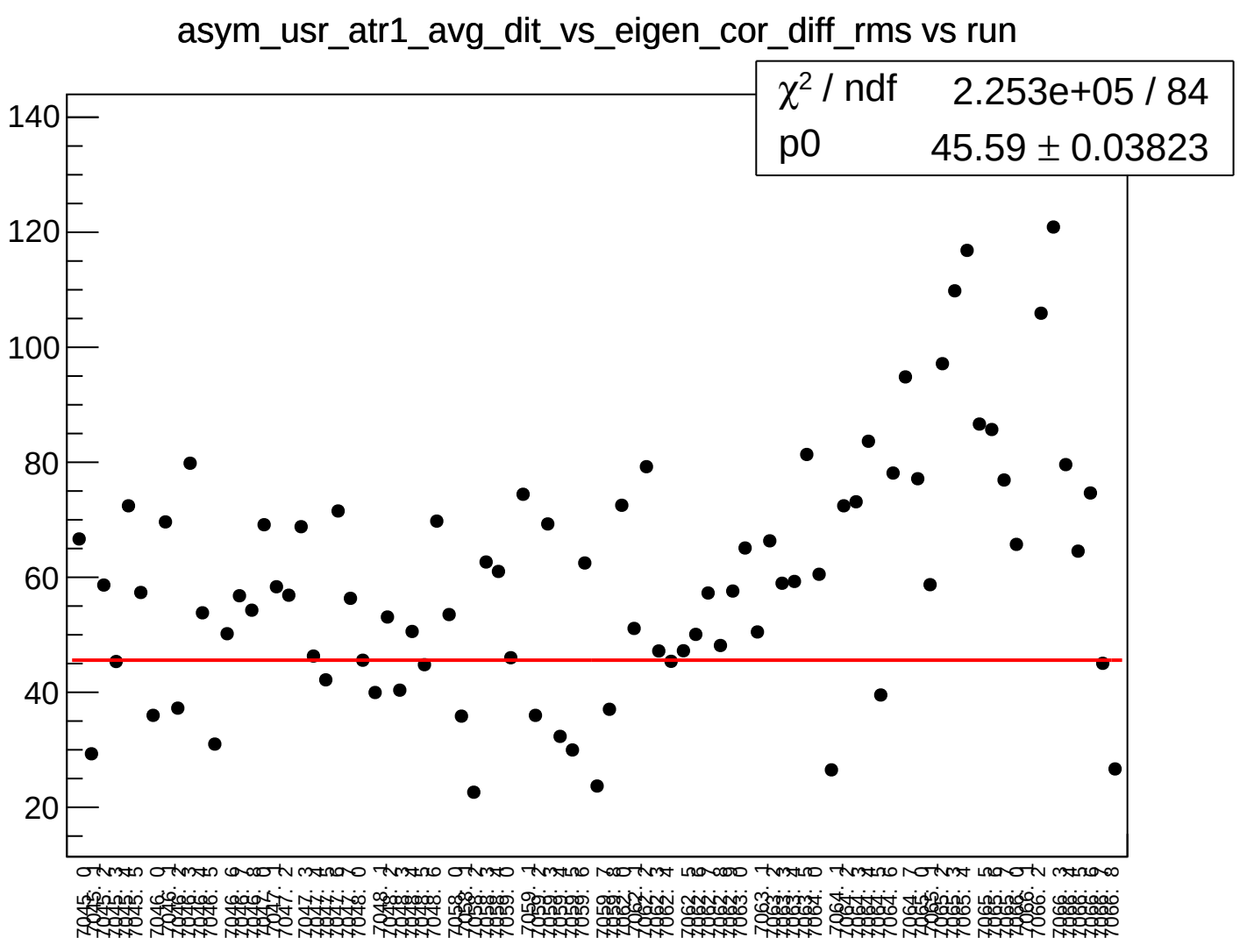

pull1D
Entries 85
Mean 0.001836
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

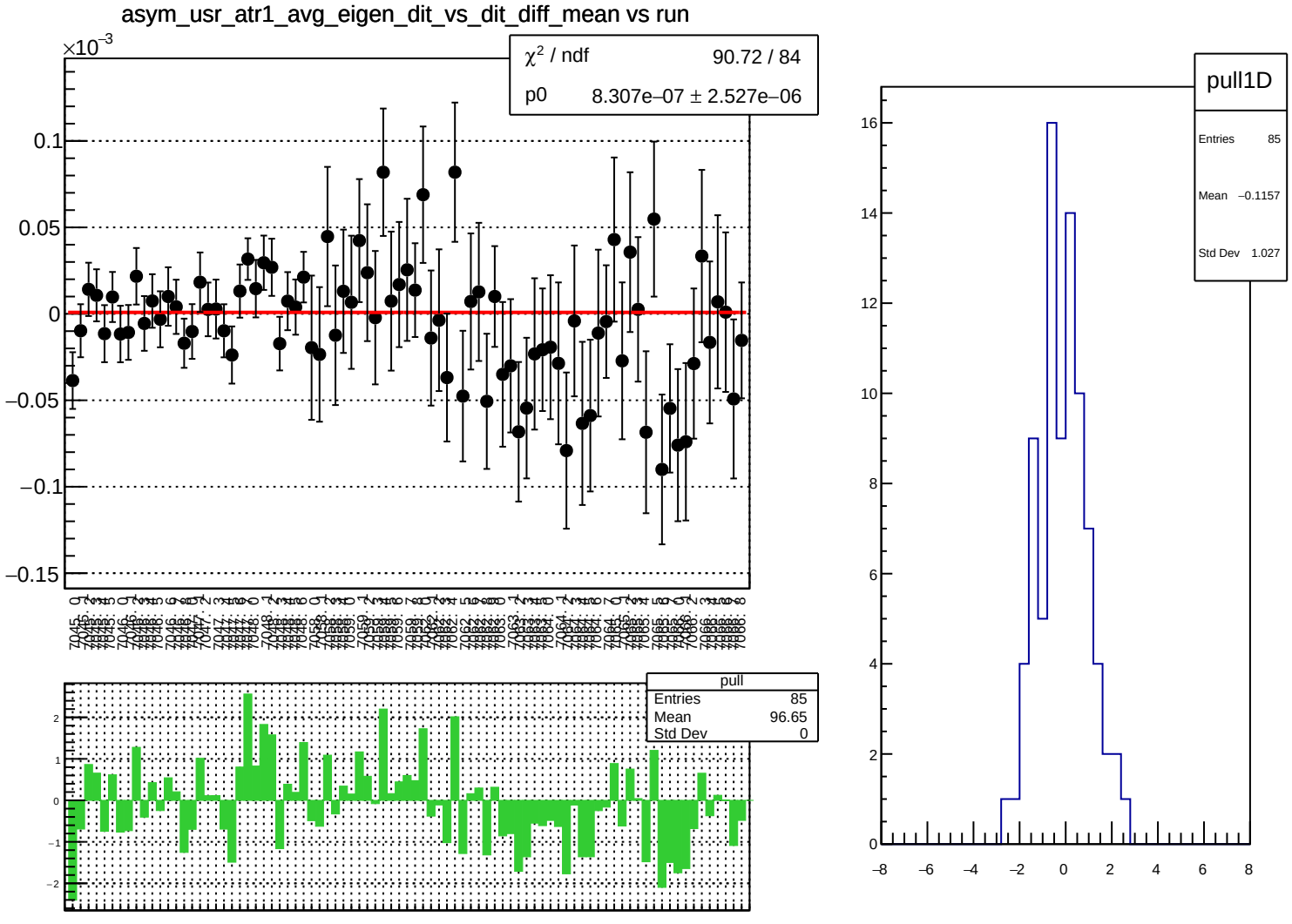

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.514e+05 / 84
p0 2.003e−11 ± 2.401e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

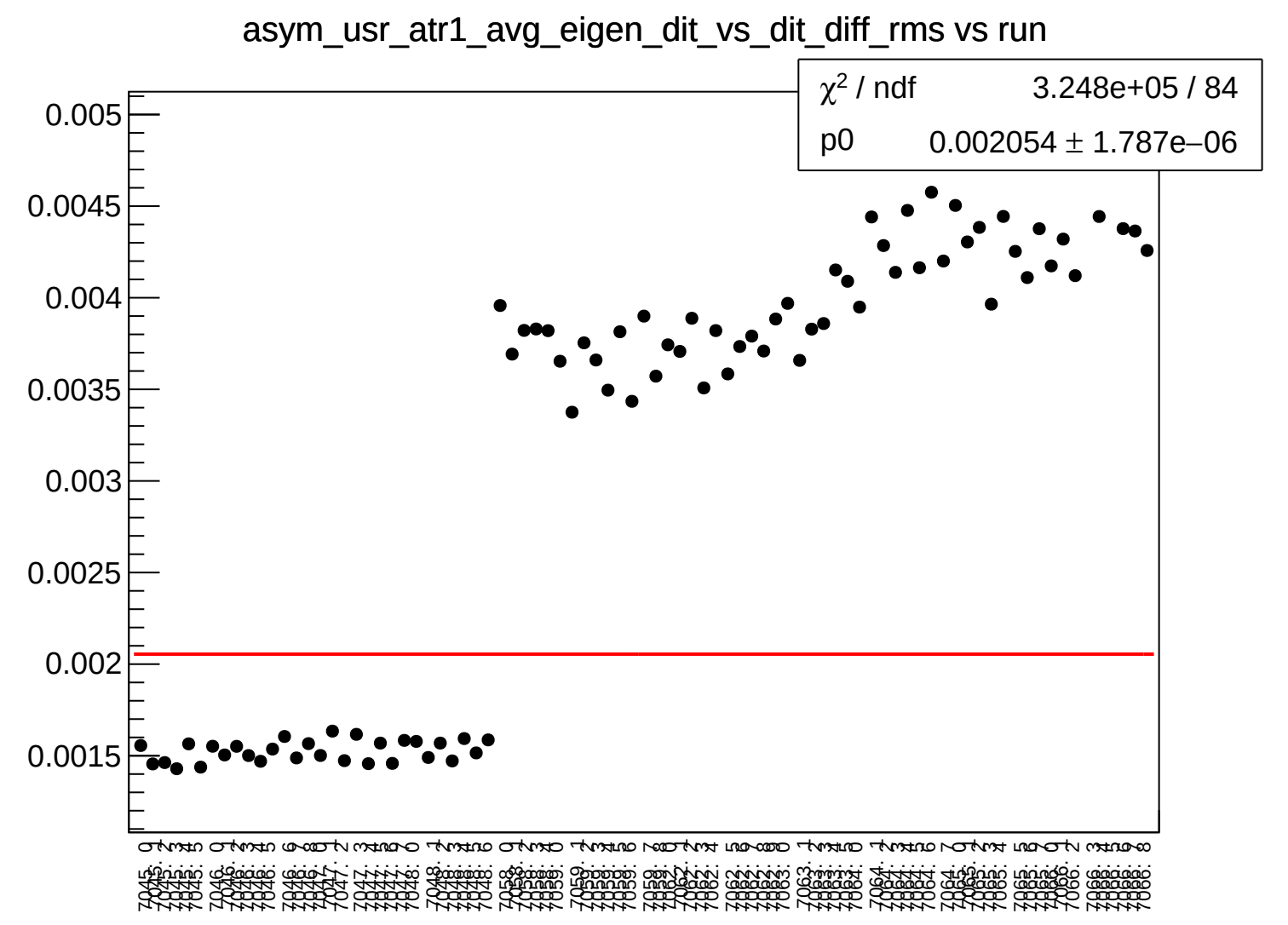

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.84 / 84
p0 −0.09686 ± 0.05406
pull
Entries 85
Mean −197.3
Std Dev 0
pull1D
Entries 85
Mean 0.005725
Std Dev 0.9812

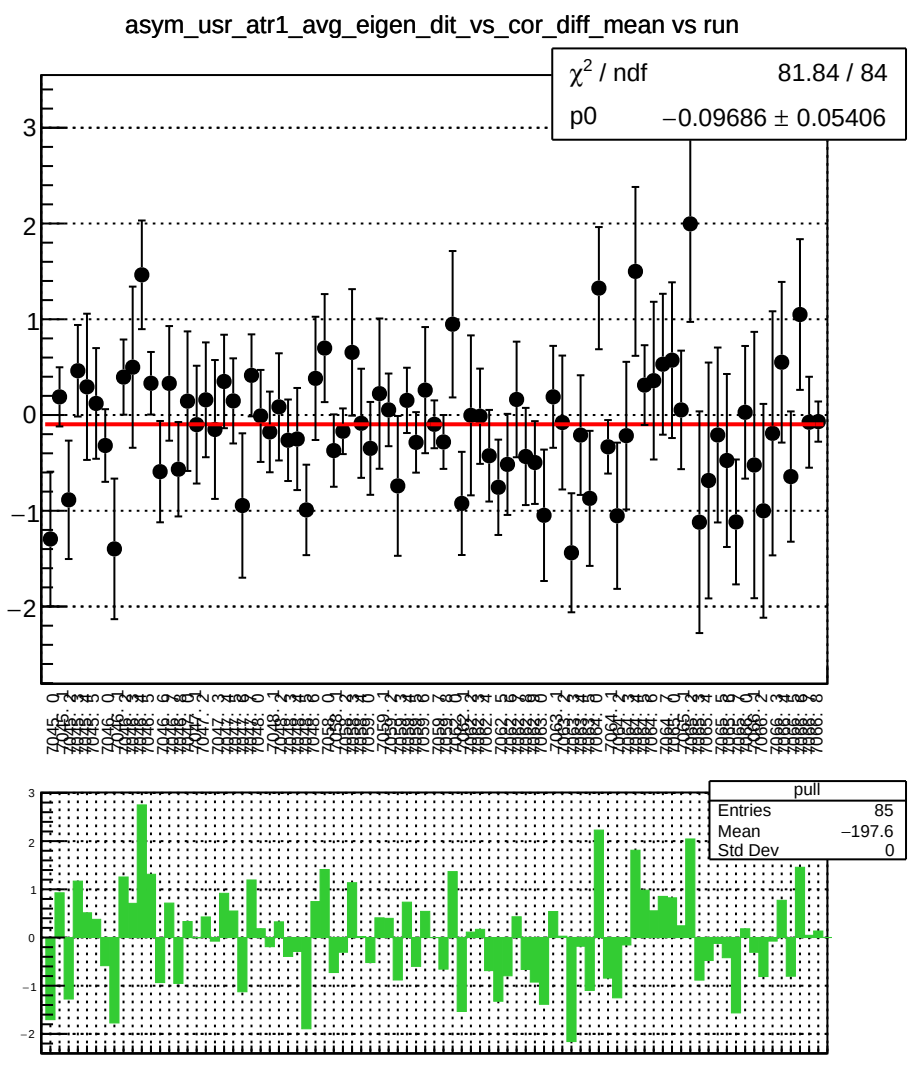

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 84
p0 45.59 ± 0.03823
140
120
100
80
60
40
20

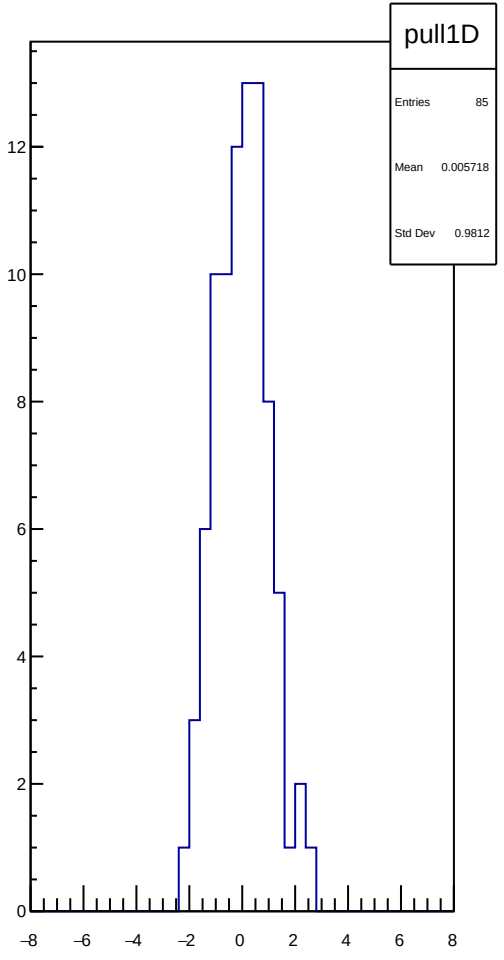

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.84 / 84
p0 −0.09686 ± 0.05406
pull
Entries 85
Mean −197.3
Std Dev 0
pull1D
Entries 85
Mean 0.005725
Std Dev 0.9812

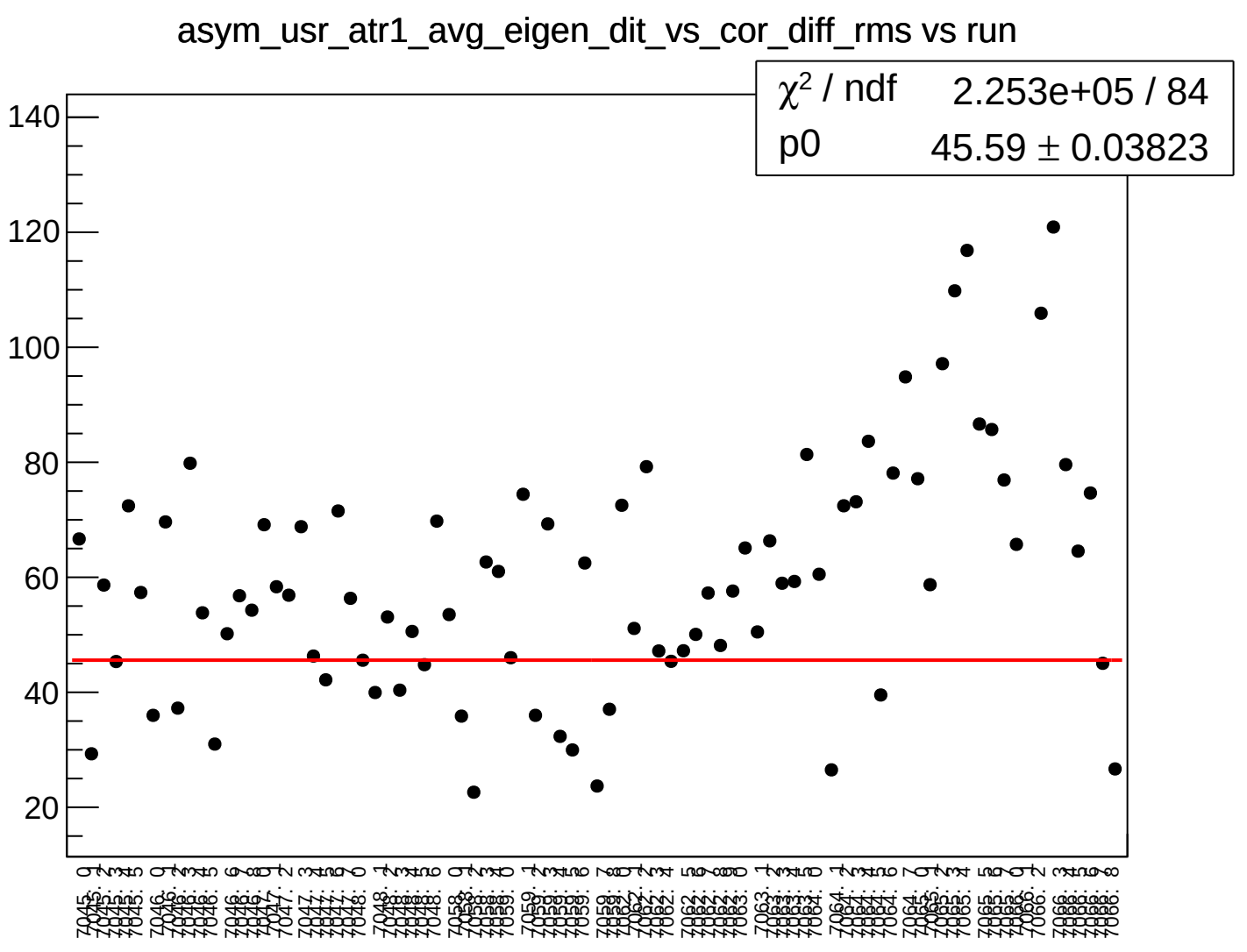

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 84
p0 45.59 ± 0.03823
140
120
100
80
60
40
20

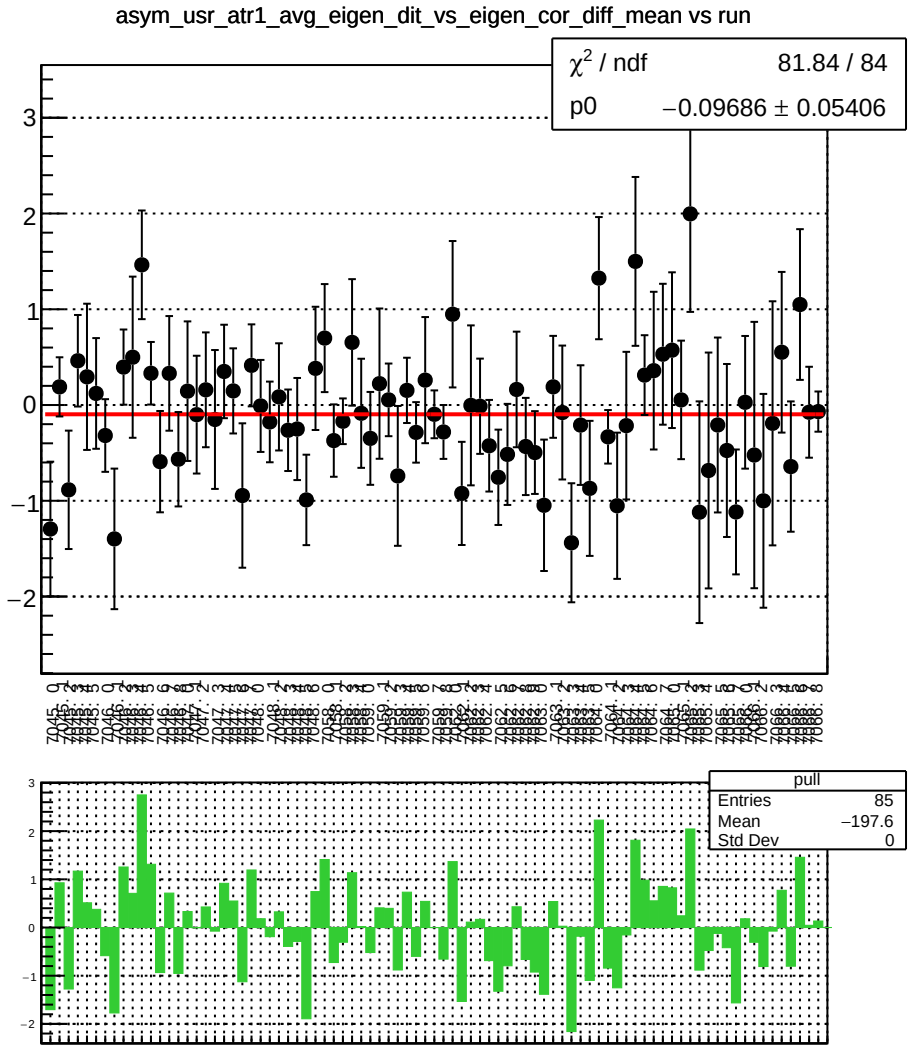

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.72 / 84
p0 8.307e−07 ± 2.527e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 96.65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.1157
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

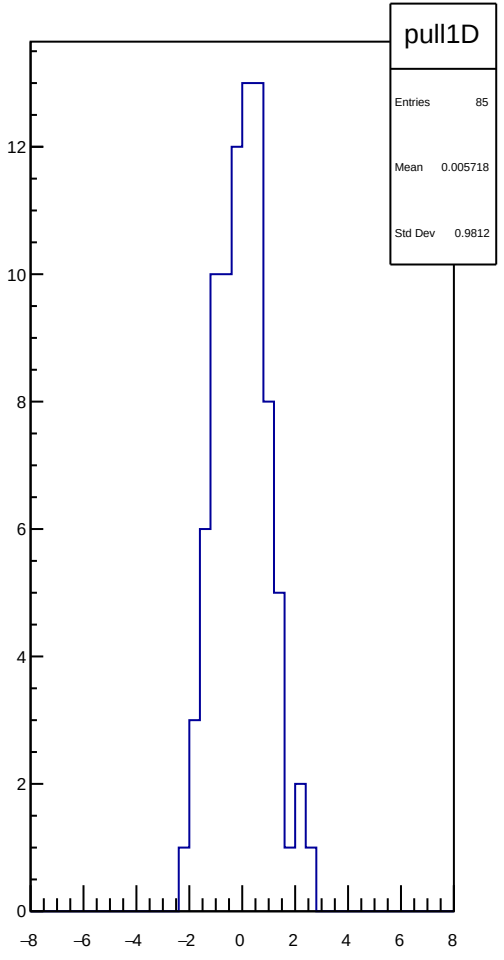

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.248e+05 / 84
p0 0.002054 ± 1.787e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

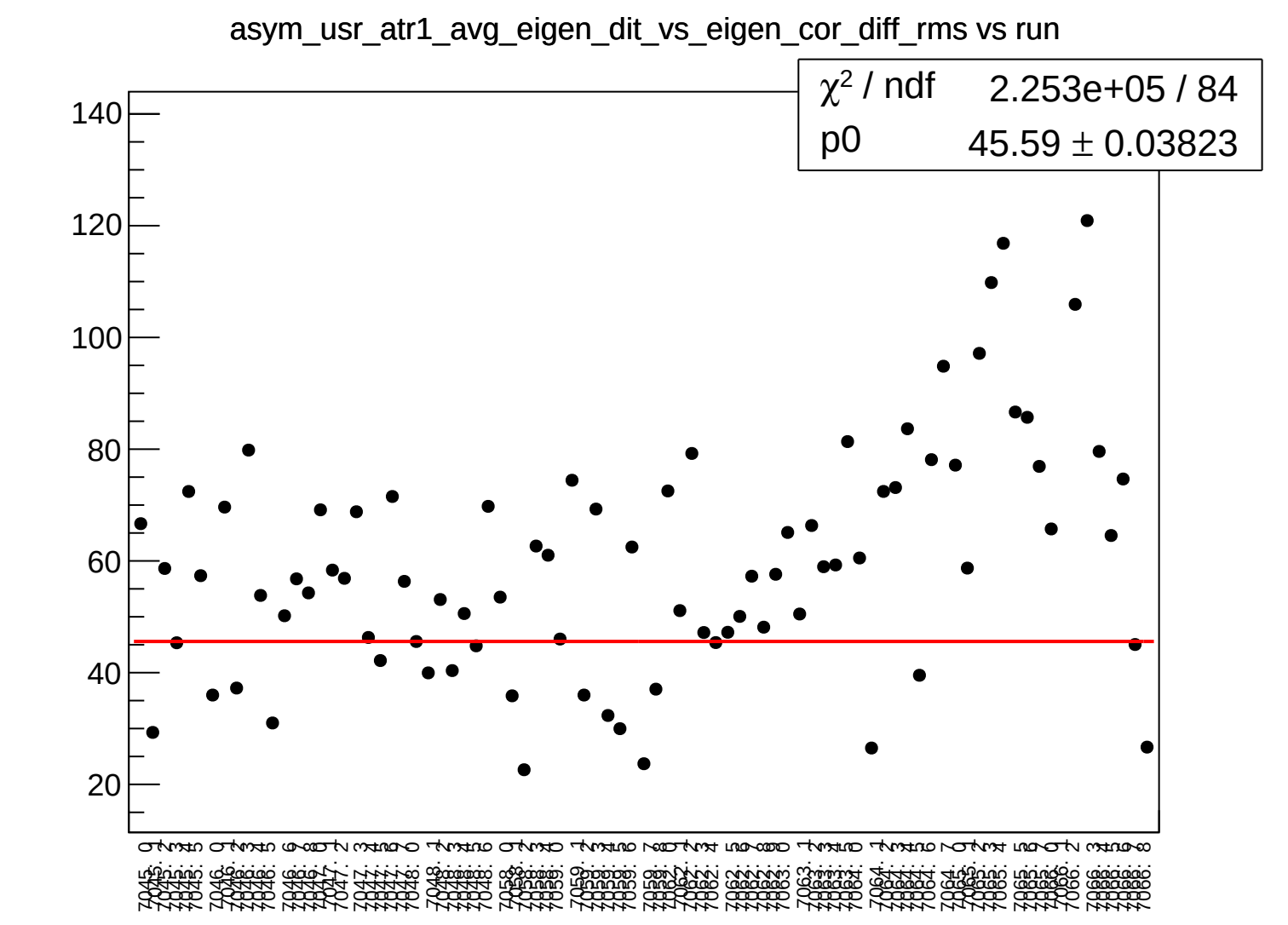

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.84 / 84
p0 −0.09686 ± 0.05406
pull
Entries 85
Mean −197.6
Std Dev 0

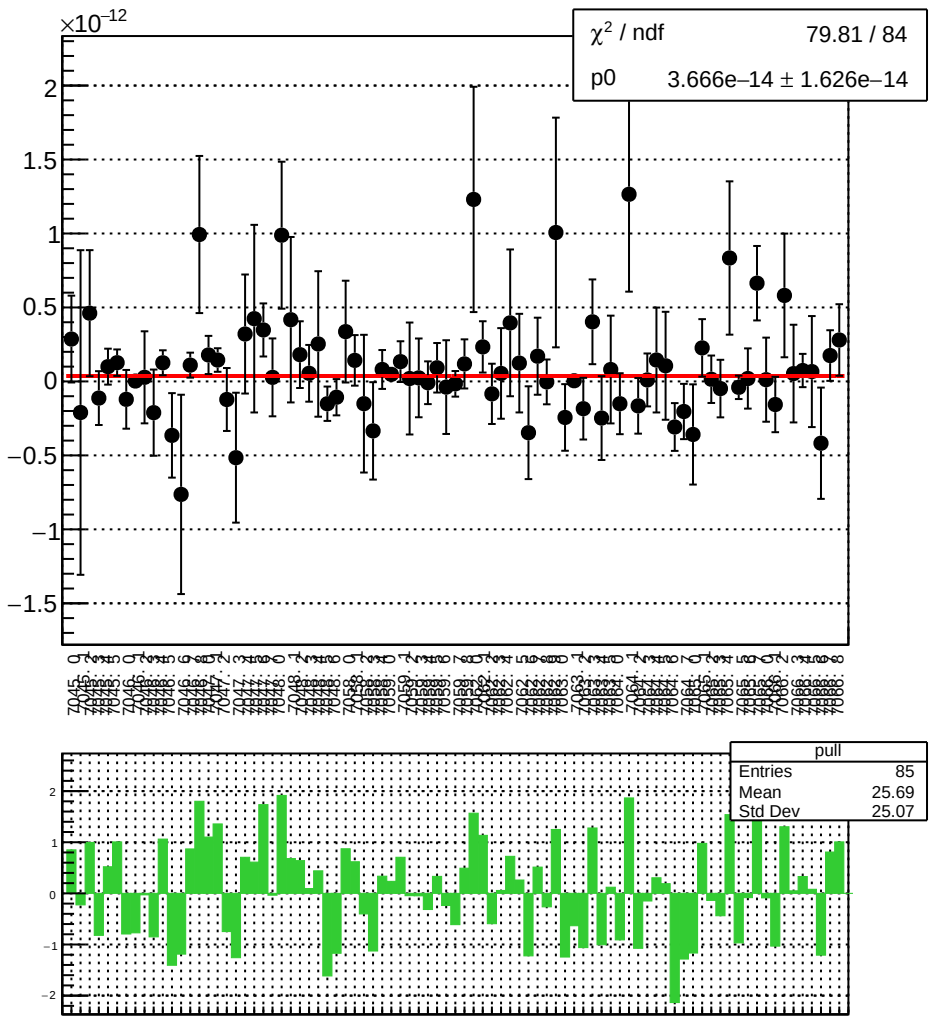

pull1D
Entries 85
Mean 0.005718
Std Dev 0.9812

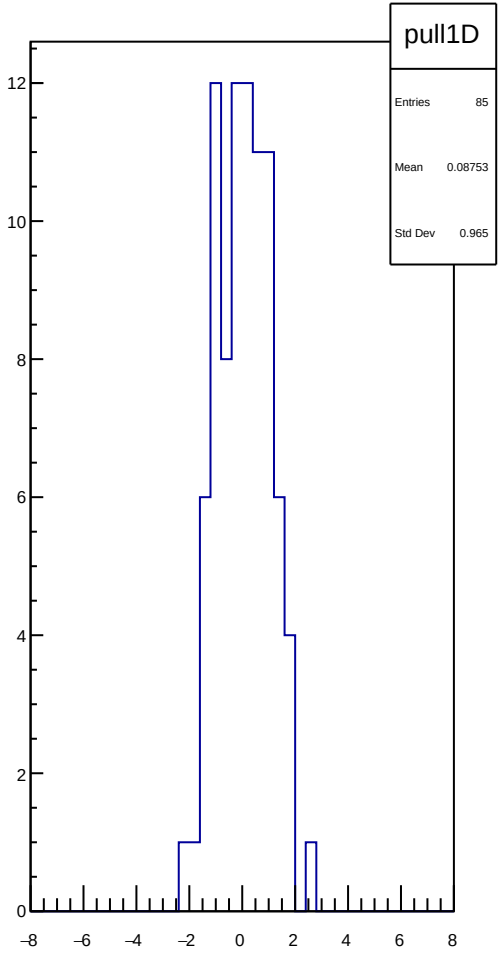

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 84
p0 45.59 ± 0.03823
140
120
100
80
60
40
20

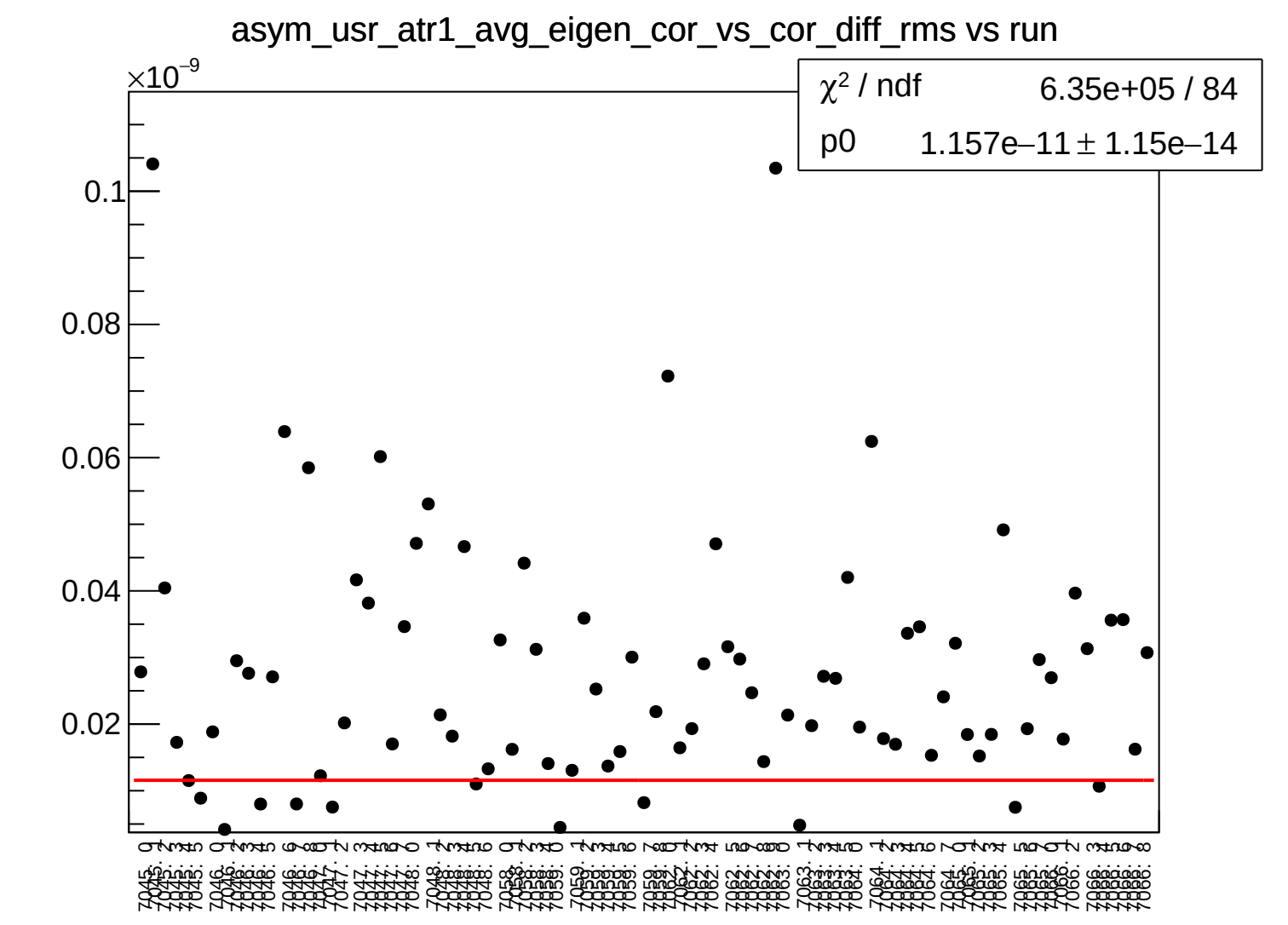

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.84 / 84
p0 −0.09686 ± 0.05406
pull
Entries 85
Mean −197.6
Std Dev 0

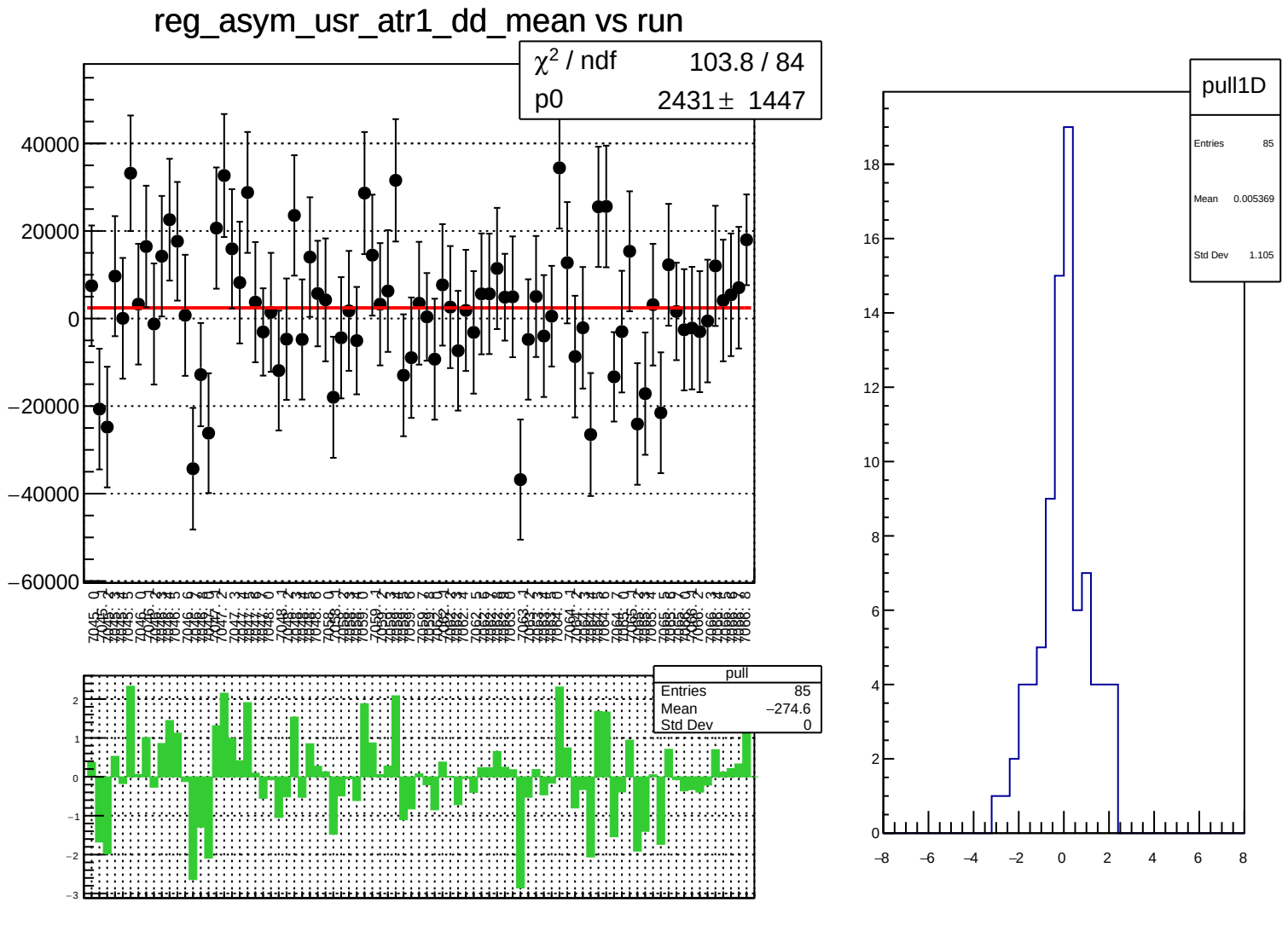

pull1D
Entries 85
Mean 0.005718
Std Dev 0.9812

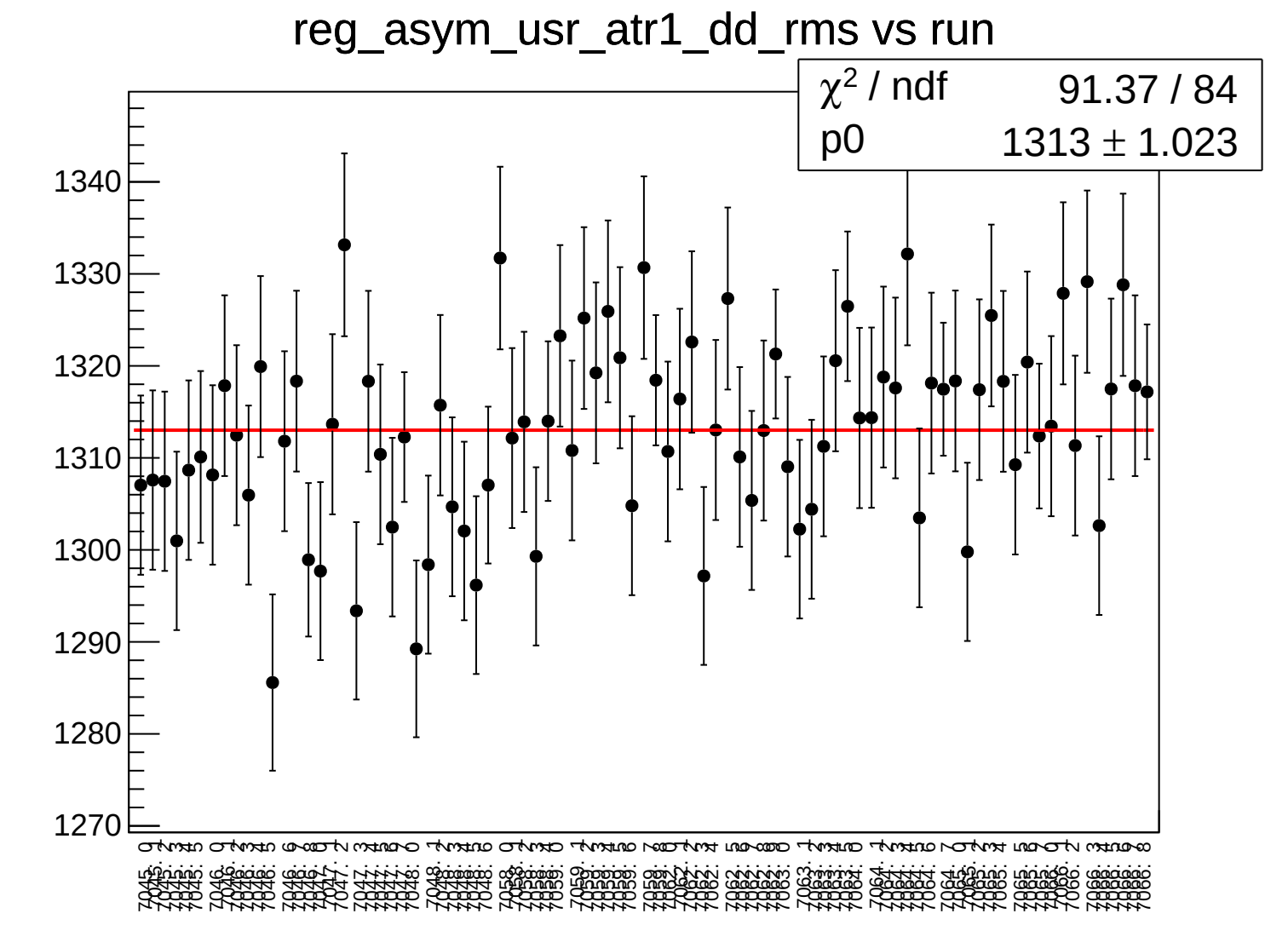

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 84
p0 45.59 ± 0.03823
140
120
100
80
60
40
20

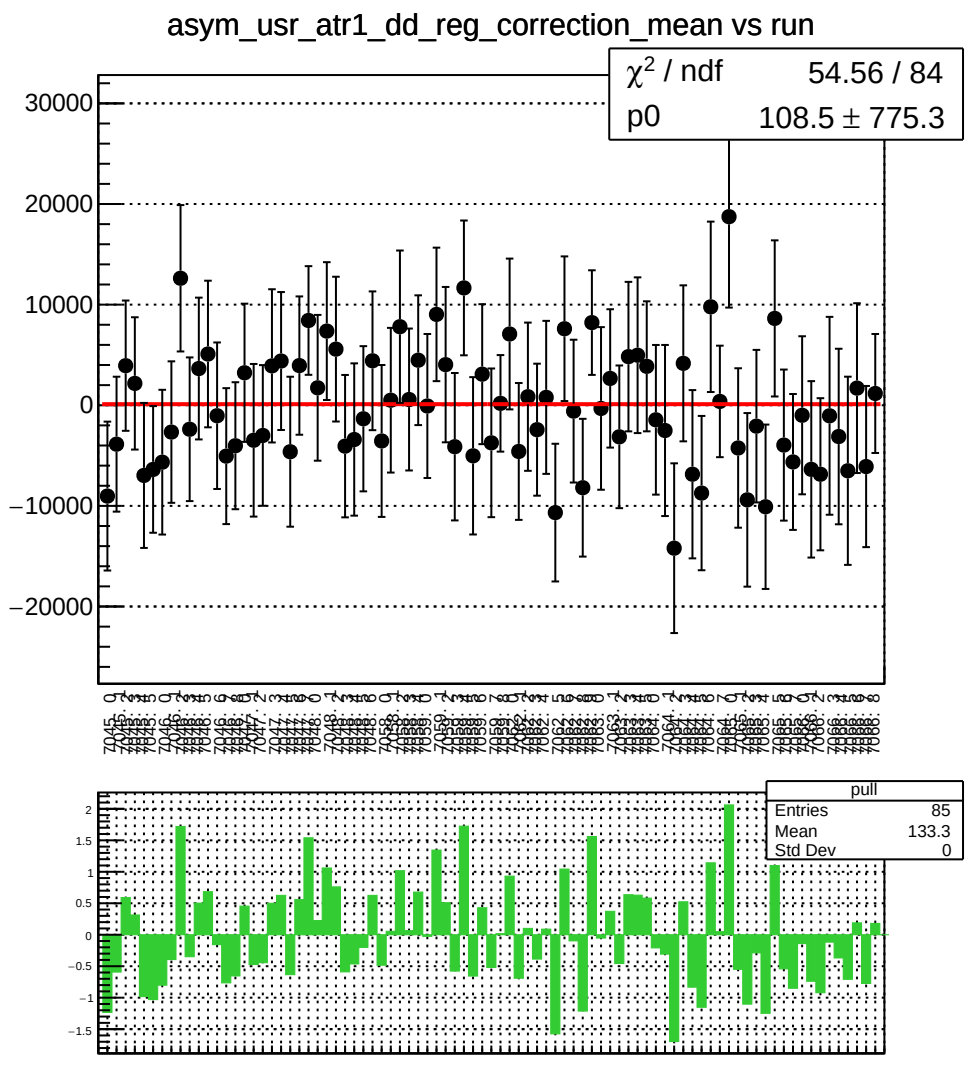

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.81 / 84
p0 3.666e−14 ± 1.626e−14
pull
Entries 85
Mean 25.69
Std Dev 25.07

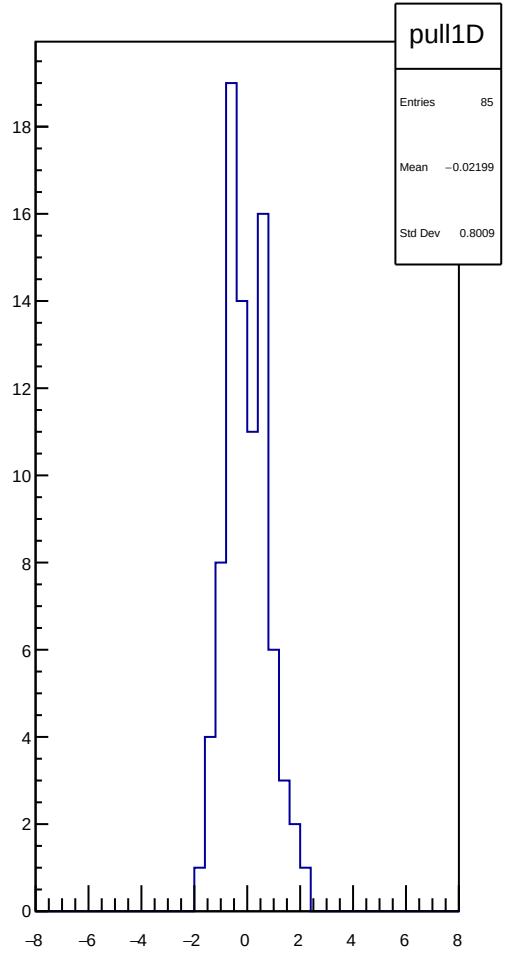

pull1D
Entries 85
Mean 0.08753
Std Dev 0.965

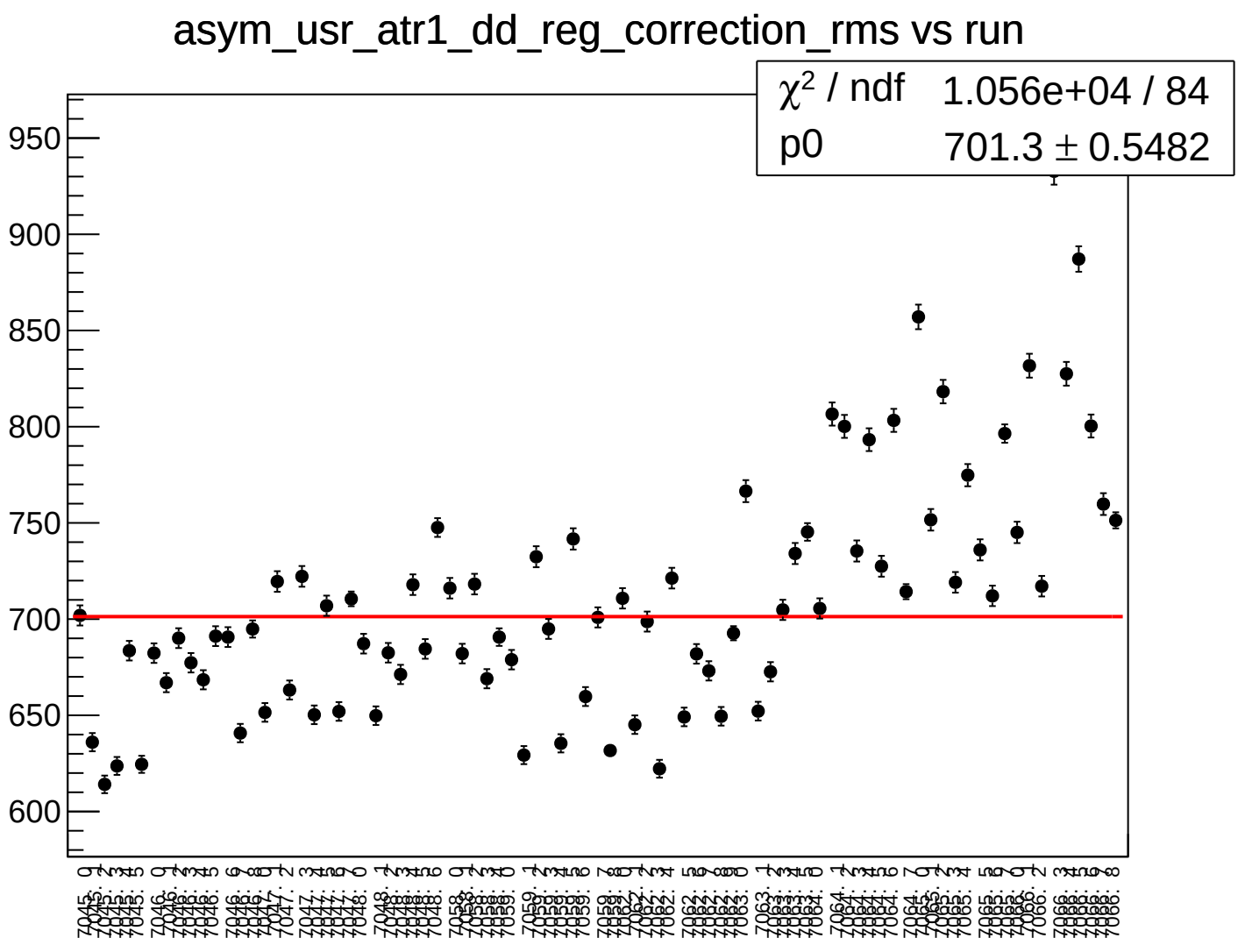

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.35e+05 / 84
p0 1.157e−11 ± 1.15e−14
0.1
0.08
0.06
0.04
0.02

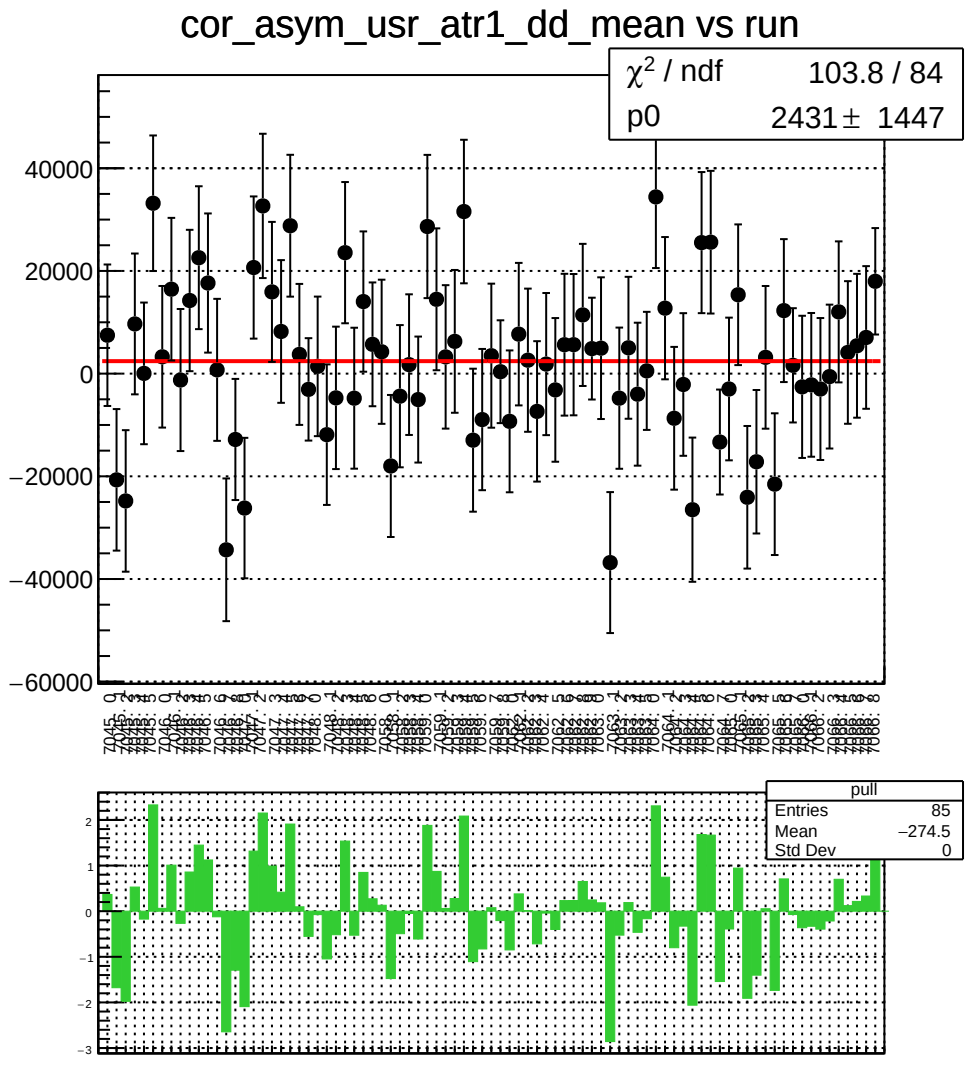

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 103.8 / 84
p0 2431 ± 1447
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −274.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.005369
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

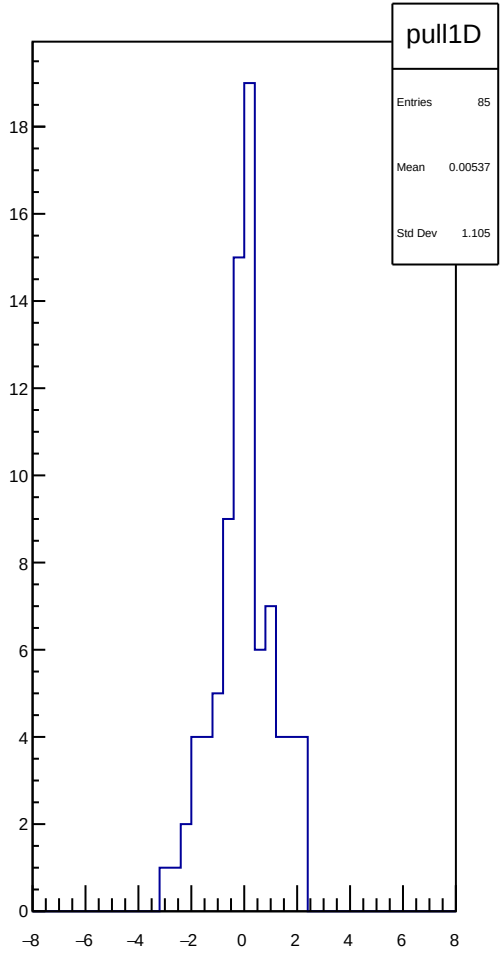

reg_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 91.37 / 84
p0 1313 ± 1.023
1340
1330
1320
1310
1300
1290
1280
1270

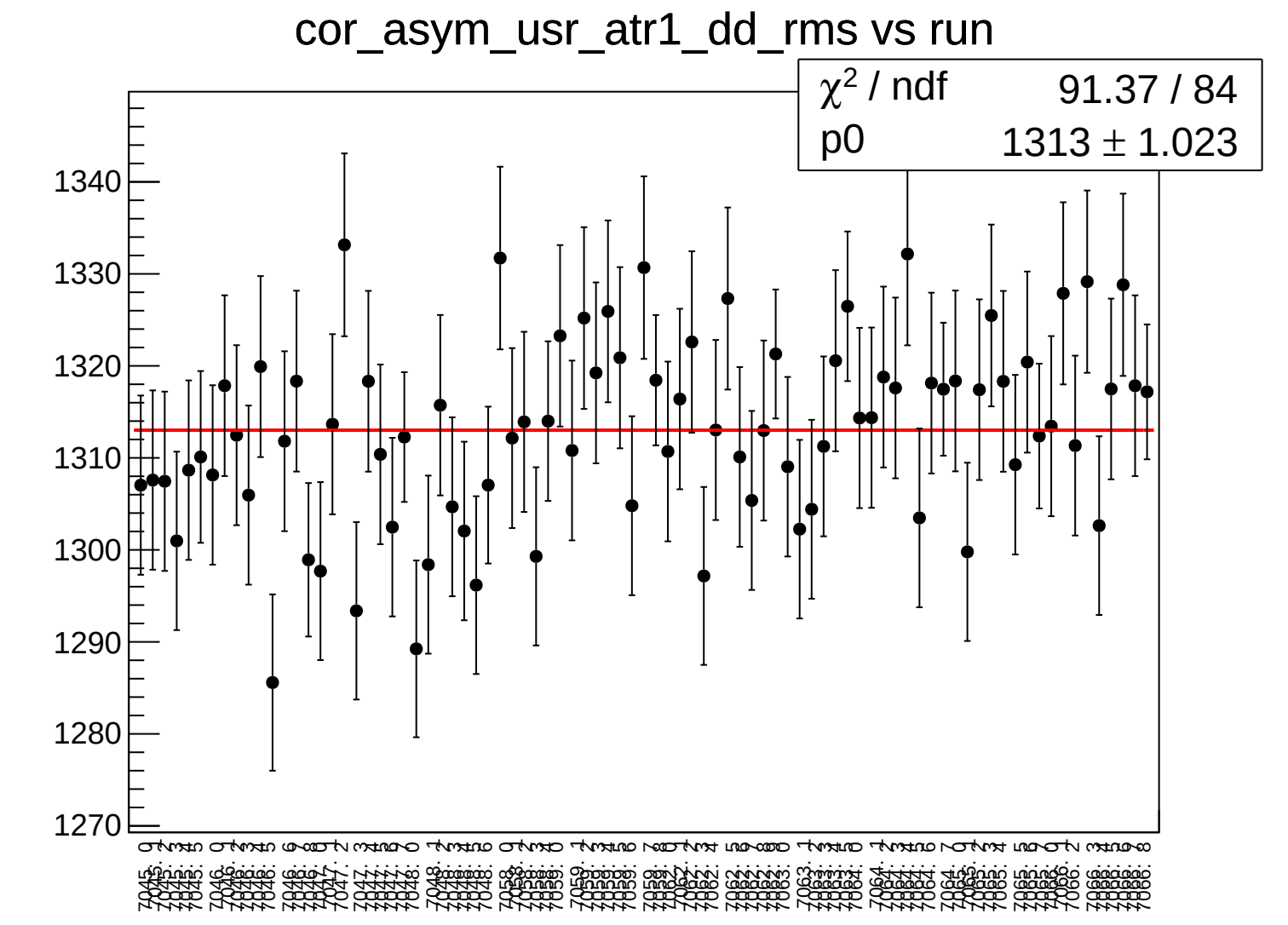

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 54.56 / 84
p0 108.5 ± 775.3
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 133.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

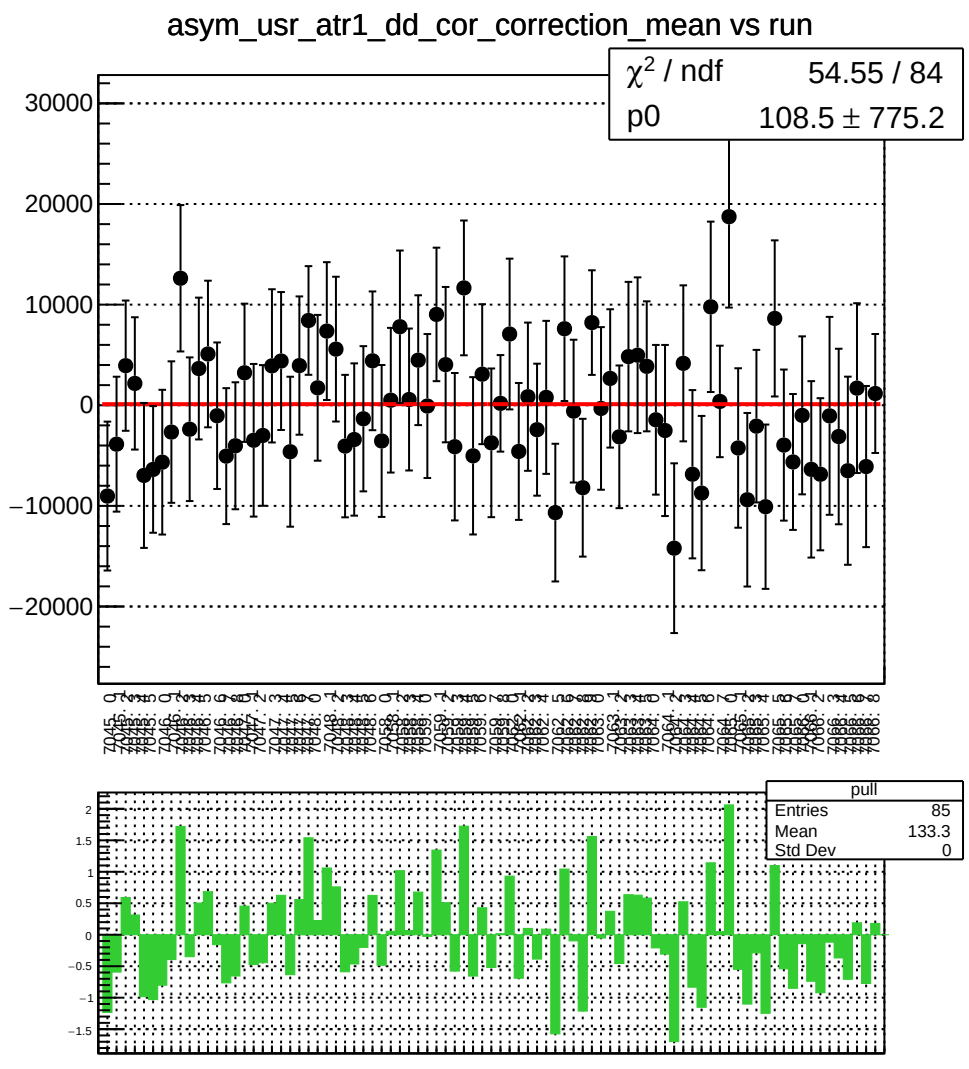

pull1D
Entries 85
Mean −0.02199
Std Dev 0.8009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

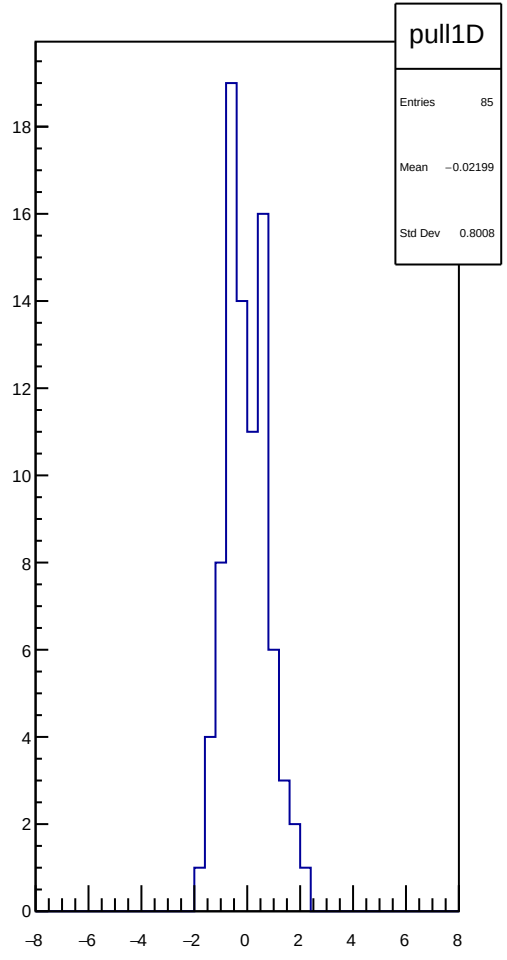

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.056e+04 / 84
p0 701.3 ± 0.5482
950
900
850
800
750
700
650
600

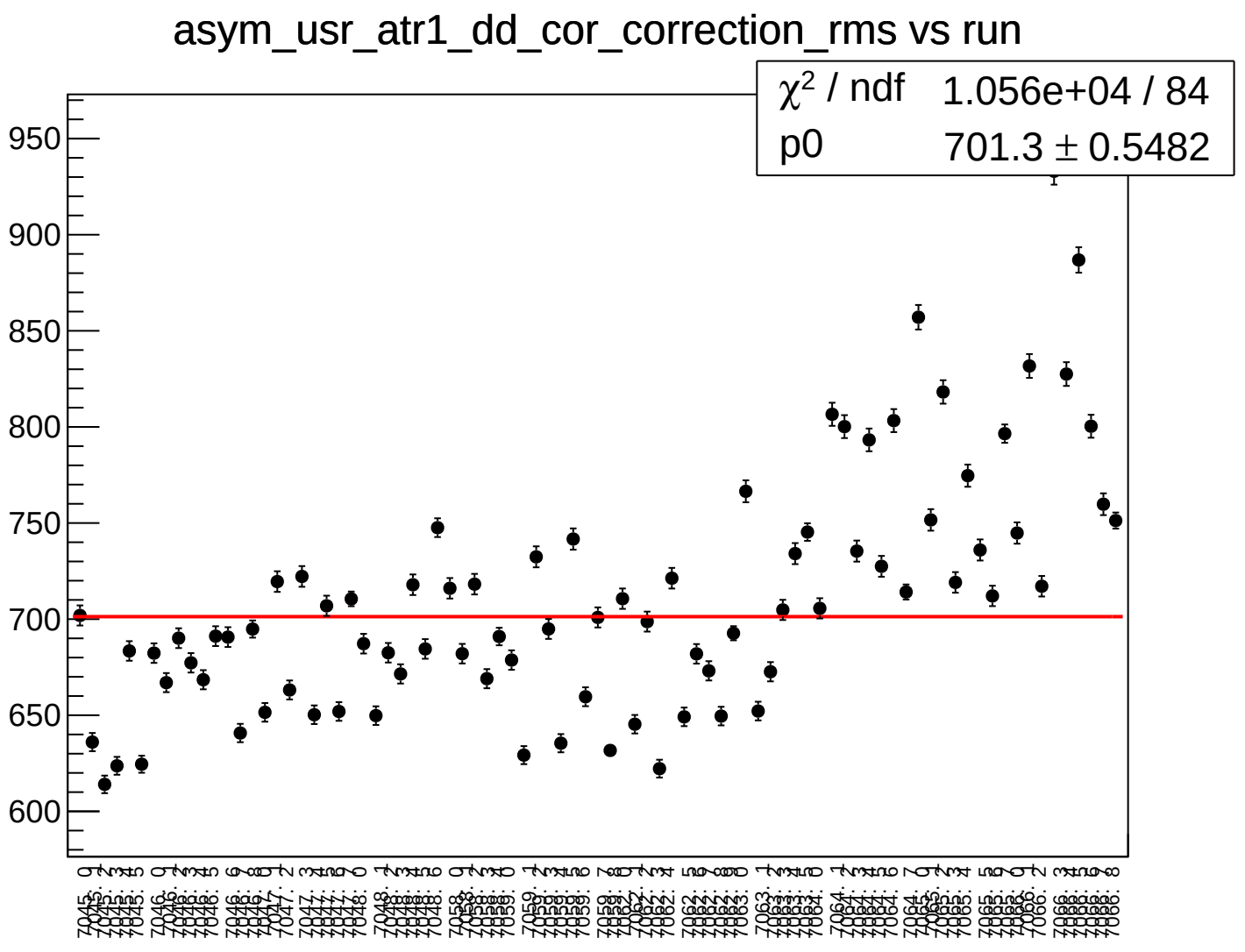

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 103.8 / 84
p0 2431 ± 1447
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −274.5
Std Dev 0
2
1
0
−1
−2
−3

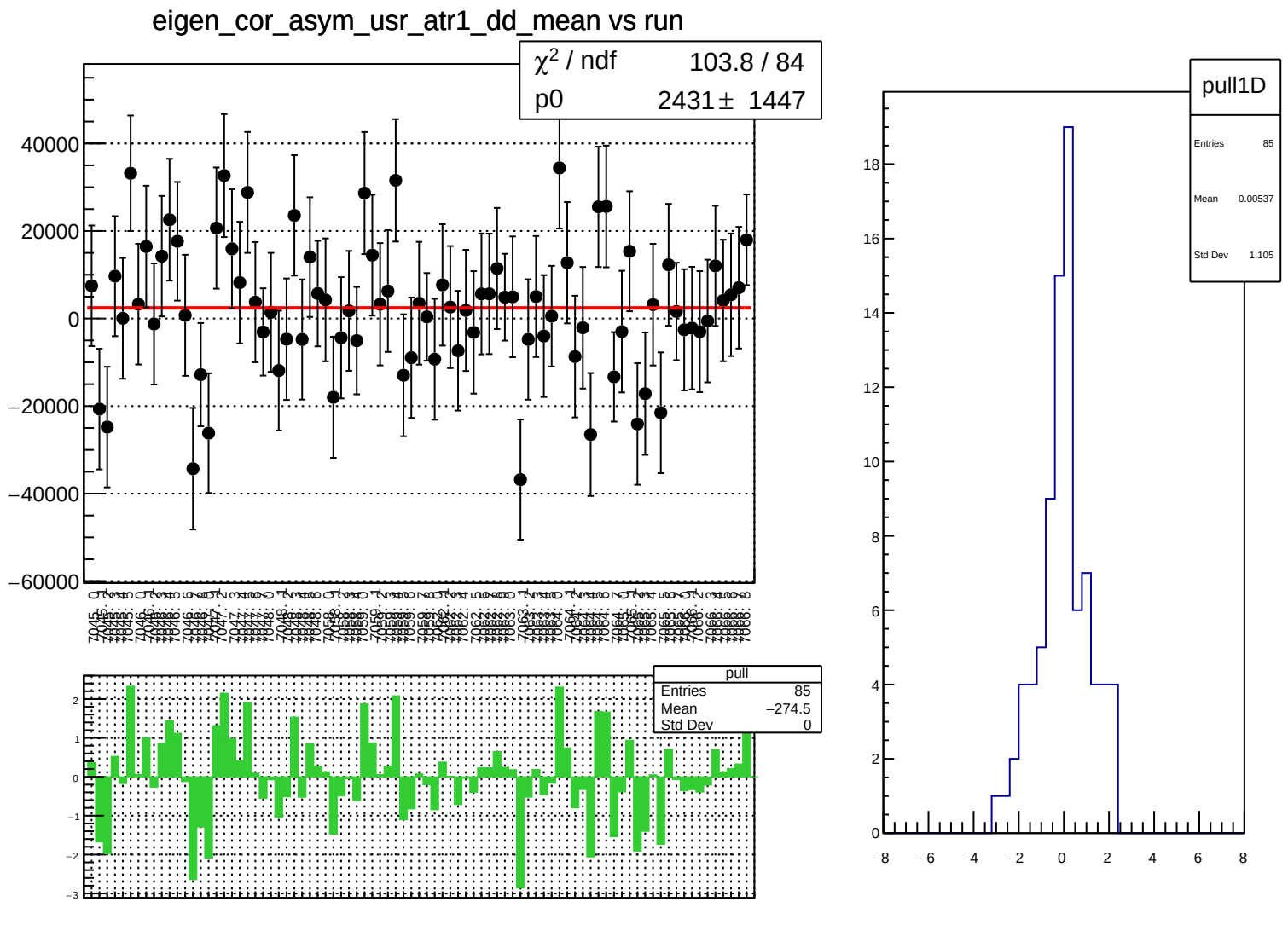

pull1D
Entries 85
Mean 0.00537
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

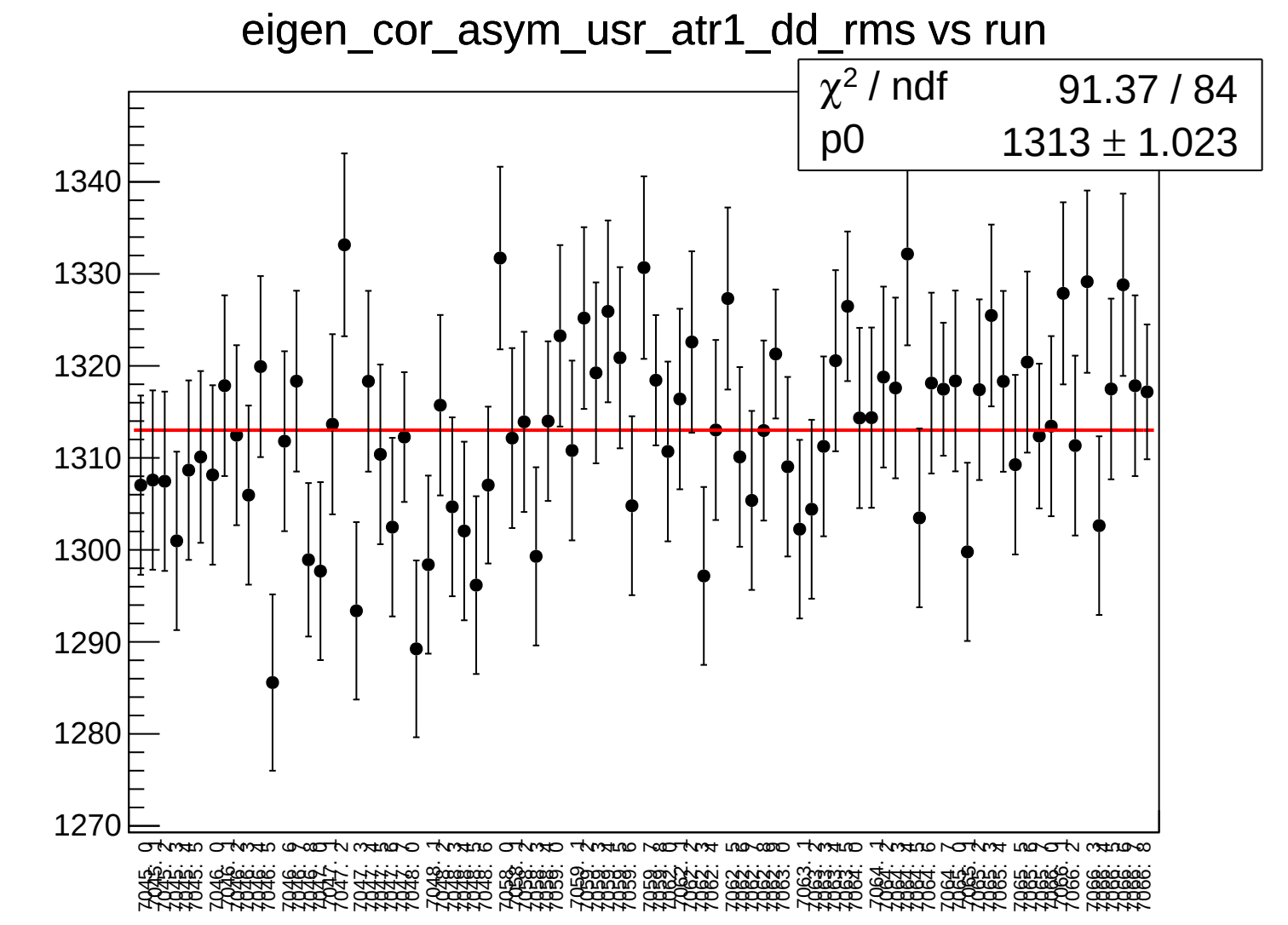

cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 91.37 / 84
p0 1313 ± 1.023
1340
1330
1320
1310
1300
1290
1280
1270

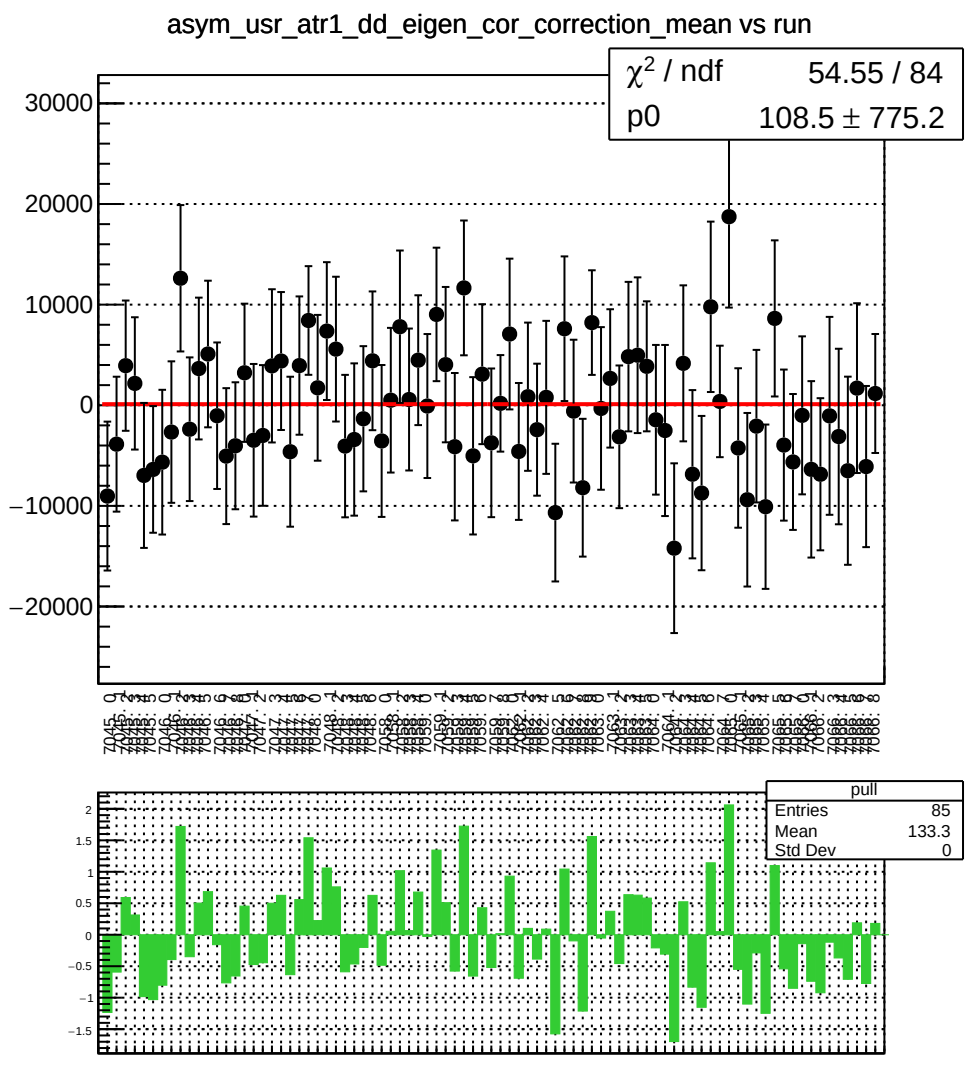

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 54.55 / 84
p0 108.5 ± 775.2
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 133.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

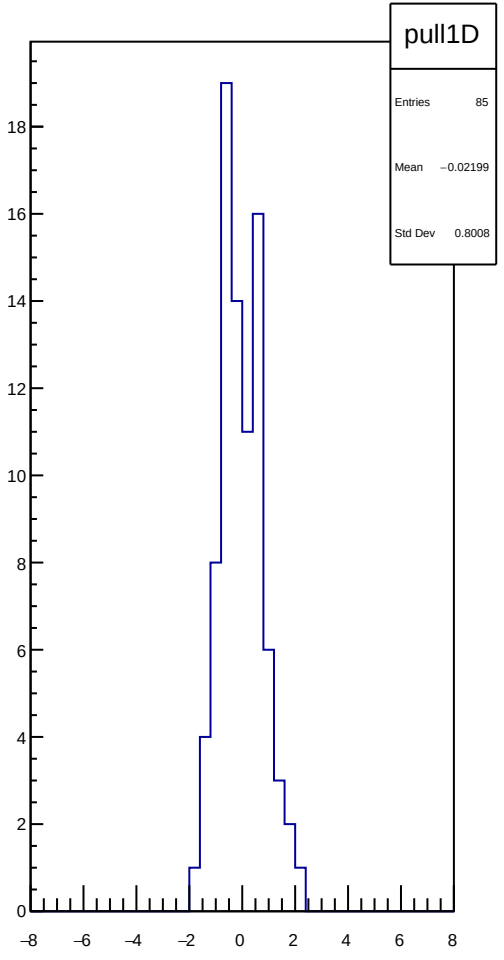

pull1D
Entries 85
Mean −0.02199
Std Dev 0.8008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

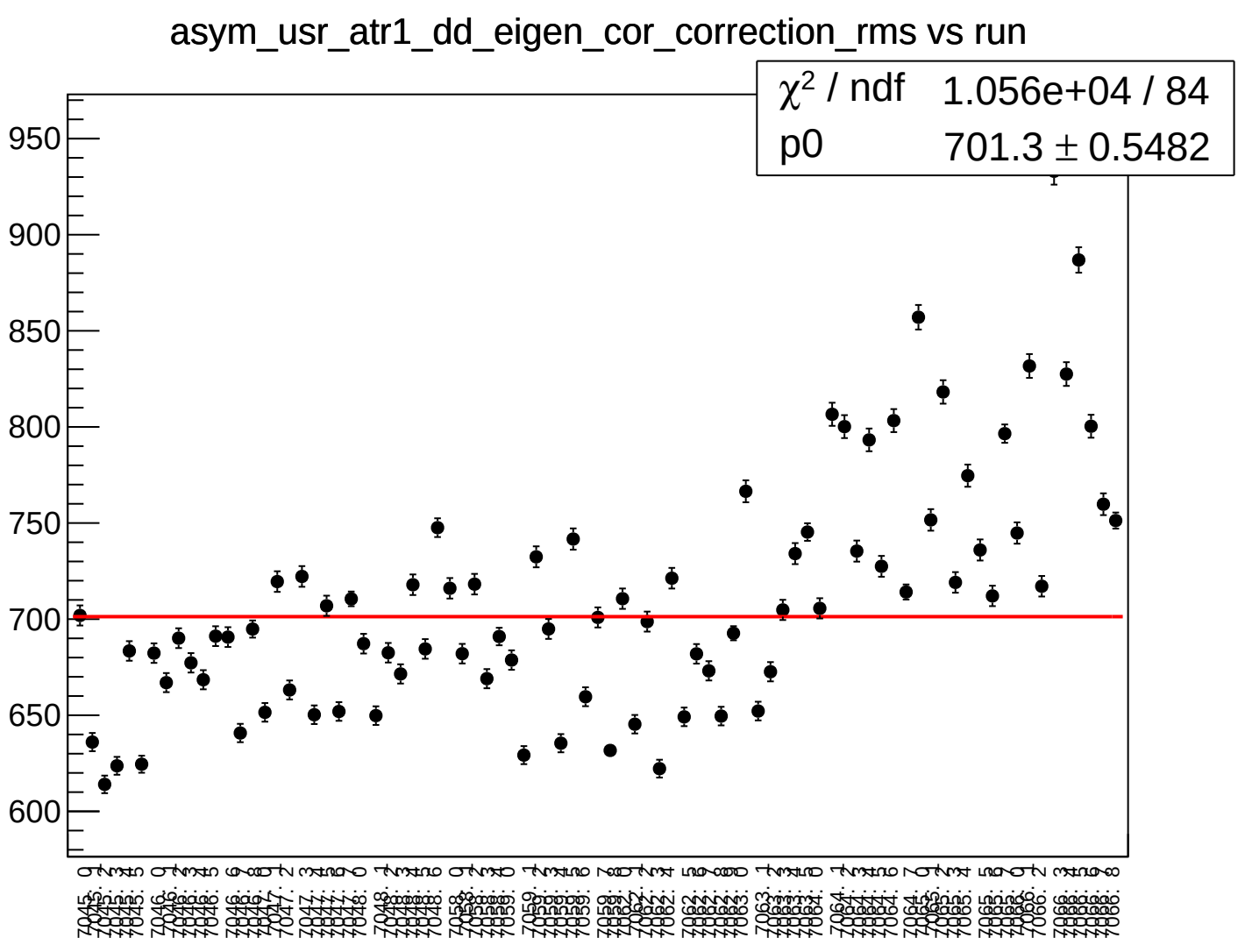

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.056e+04 / 84
p0 701.3 ± 0.5482
950
900
850
800
750
700
650
600

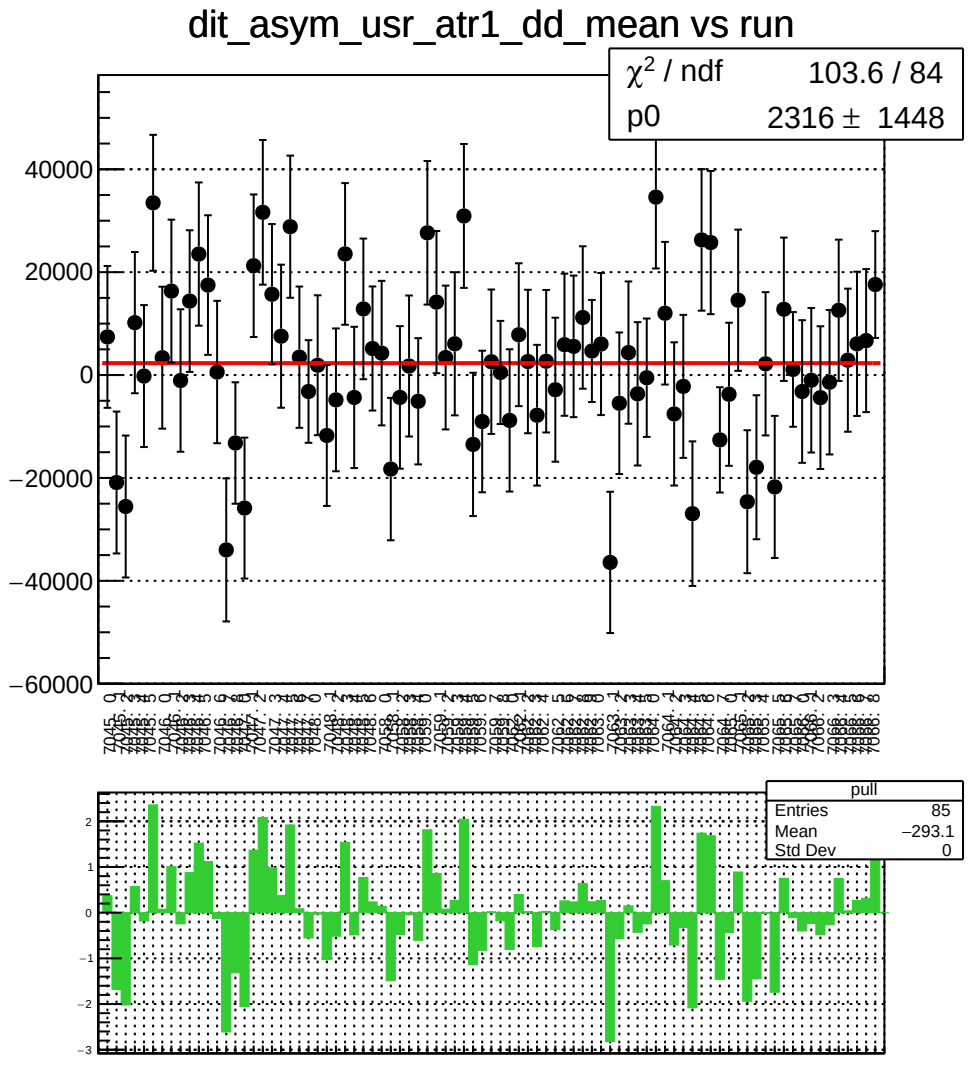

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 103.8 / 84
p0 2431 ± 1447
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −274.5
Std Dev 0
pull1D
Entries 85
Mean 0.00537
Std Dev 1.105

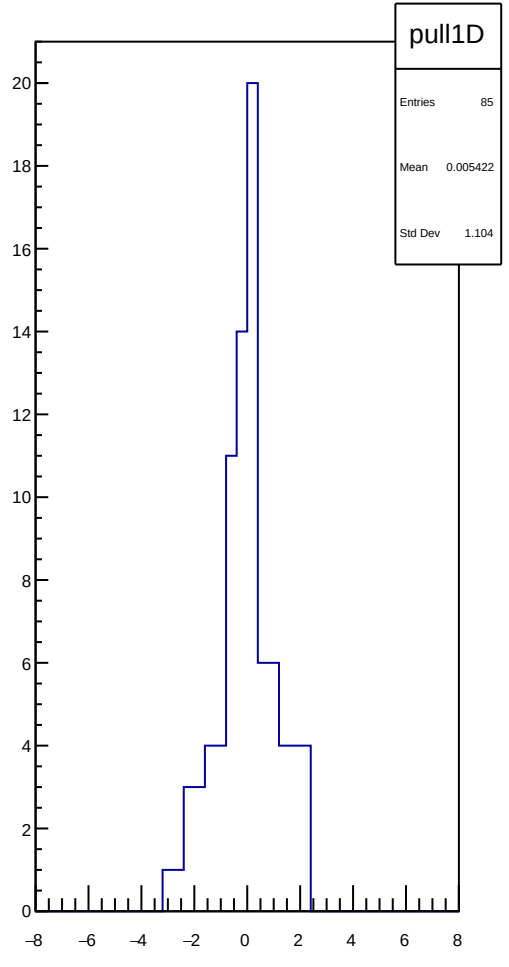

eigen_cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 91.37 / 84
p0 1313 ± 1.023
1340
1330
1320
1310
1300
1290
1280
1270

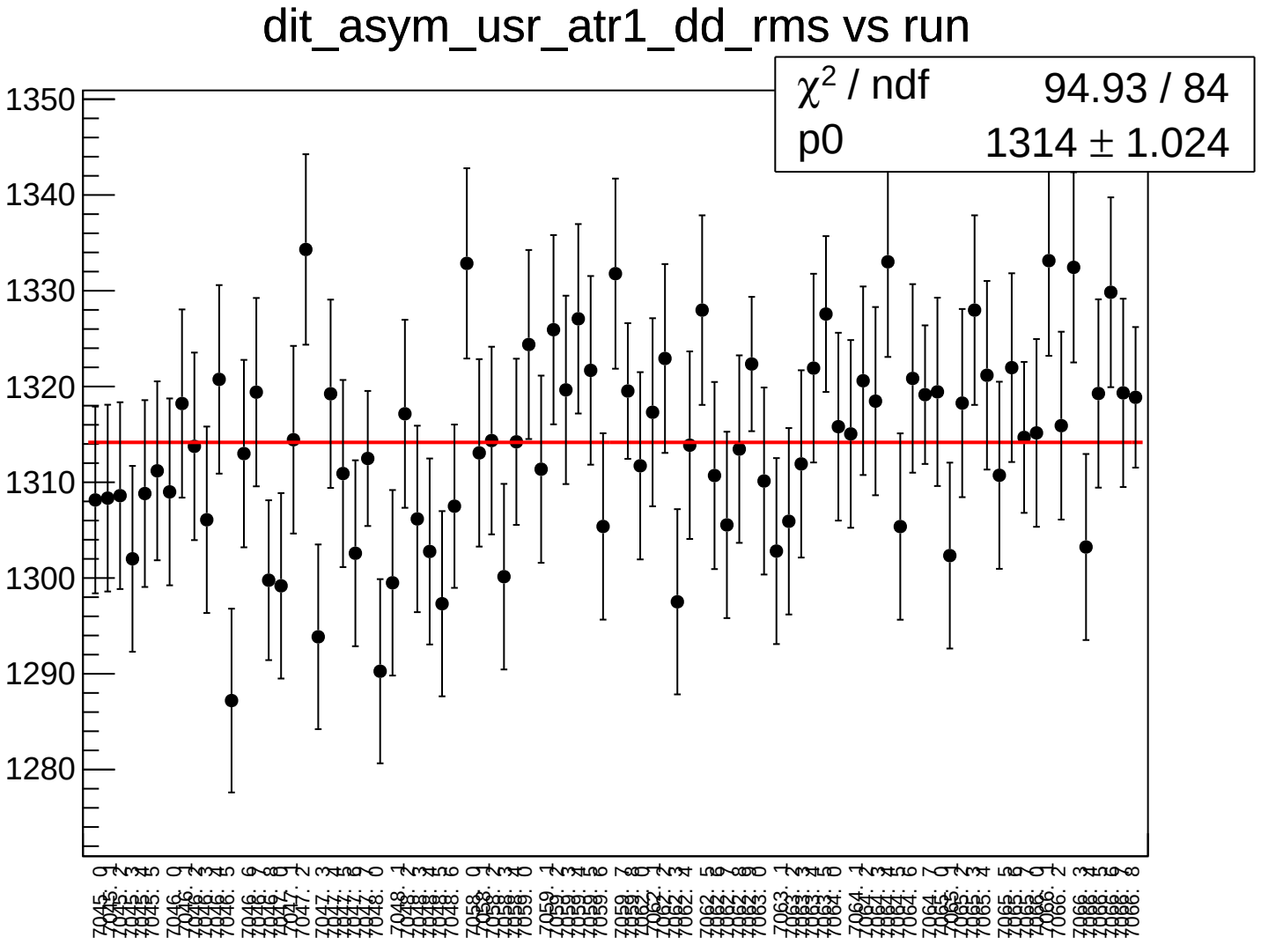

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 54.55 / 84
p0 108.5 ± 775.2
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 133.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

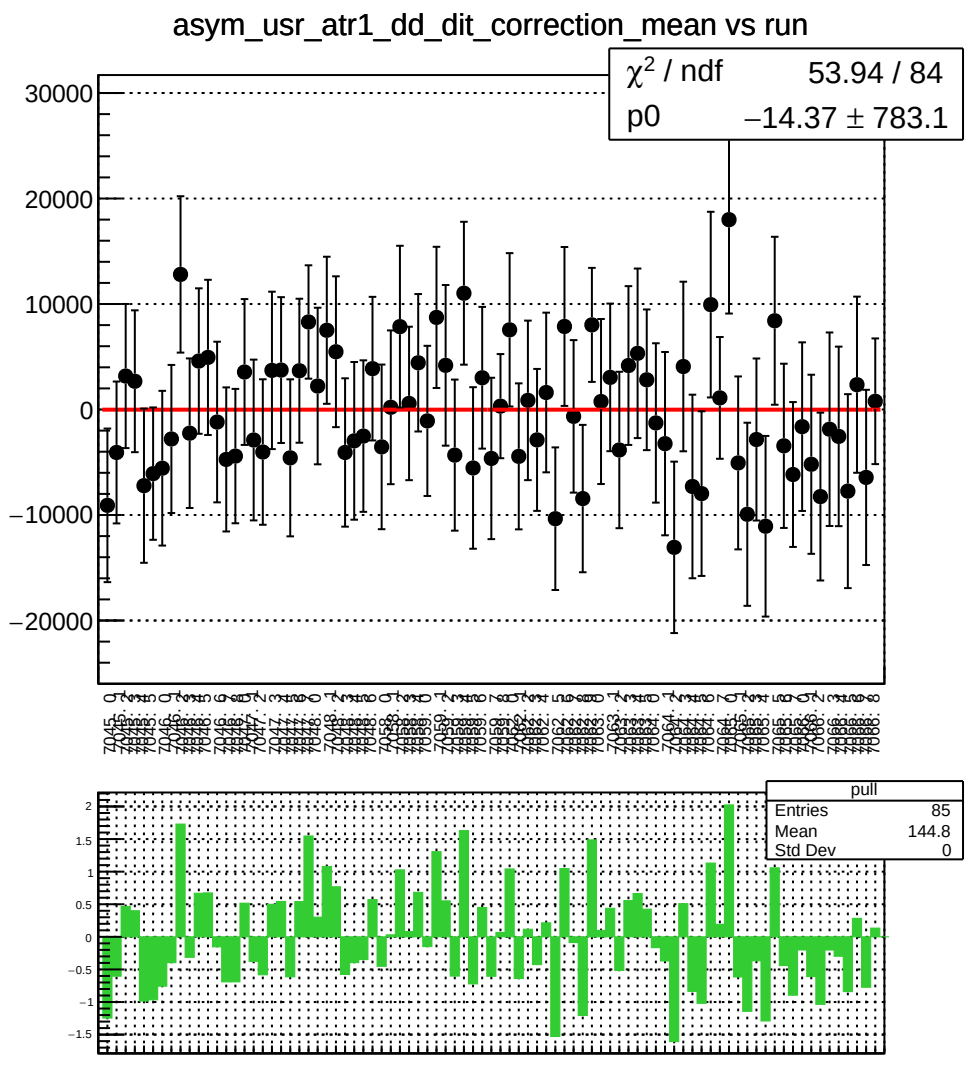

pull1D
Entries 85
Mean −0.02199
Std Dev 0.8008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

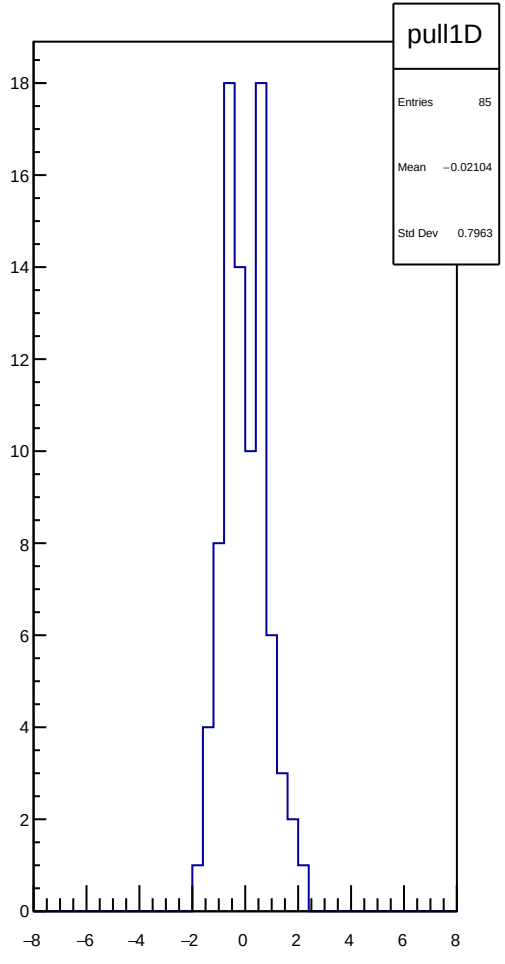

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.056e+04 / 84
p0 701.3 ± 0.5482
950
900
850
800
750
700
650
600

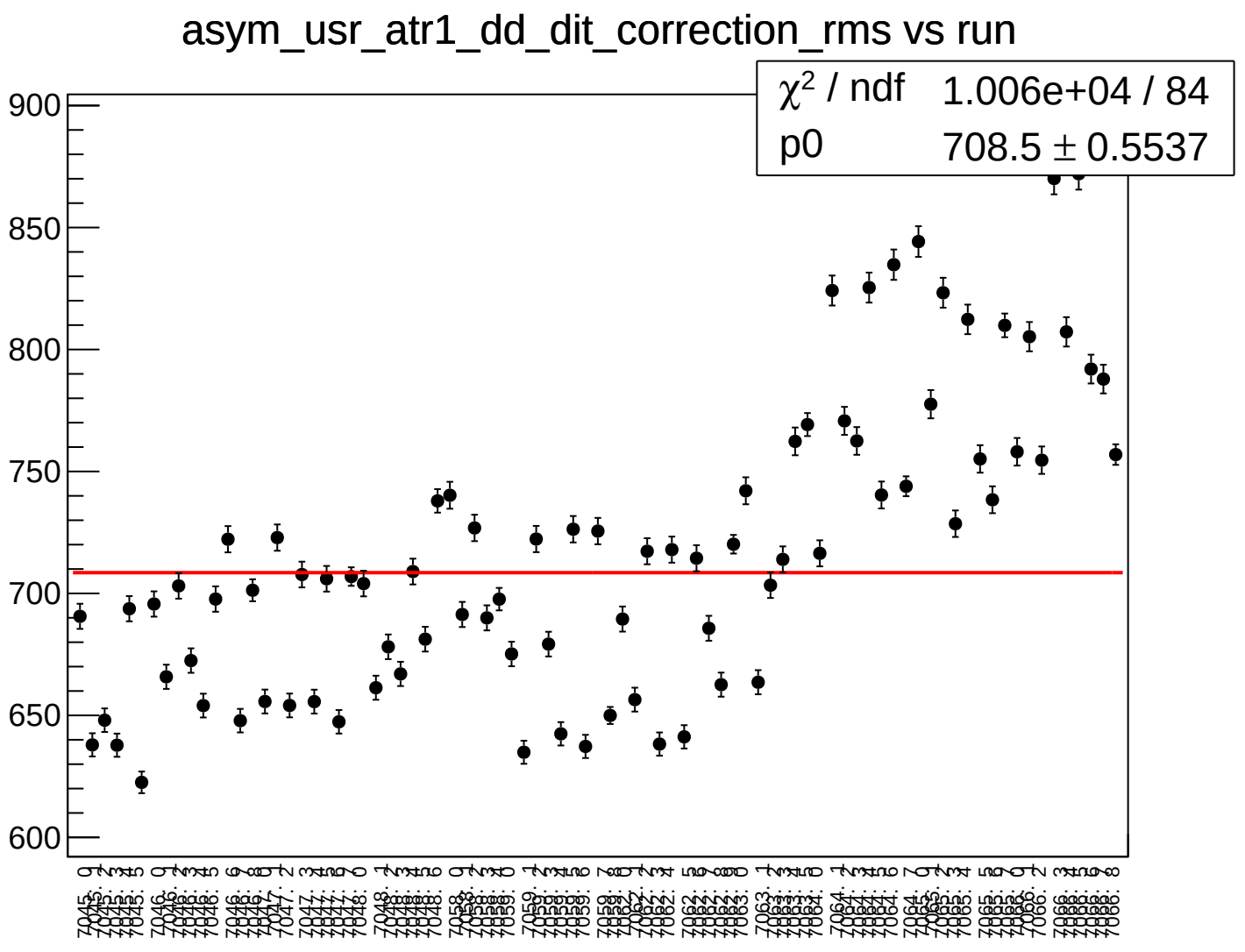

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 103.6 / 84
p0 2316 ± 1448
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −293.1
Std Dev 0
2
1
0
−1
−2
−3

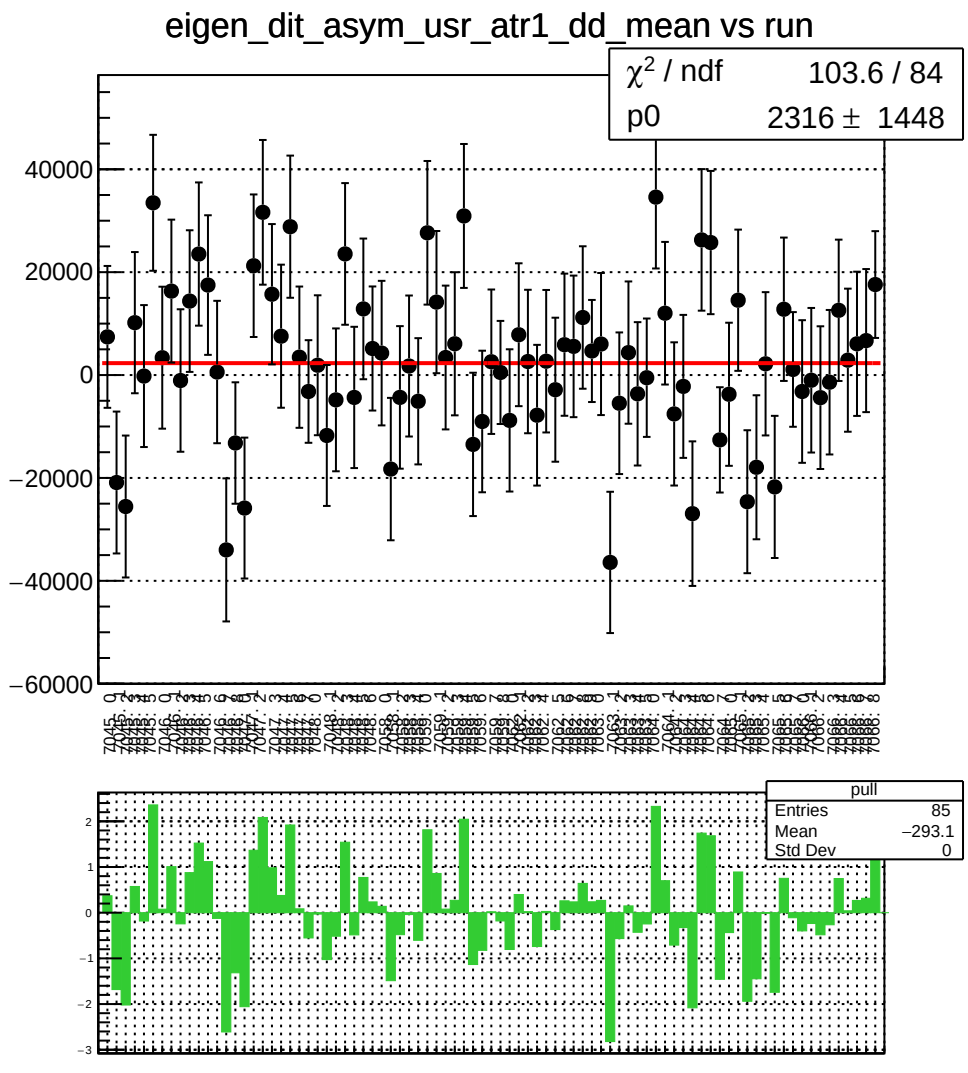

pull1D
Entries 85
Mean 0.005422
Std Dev 1.104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

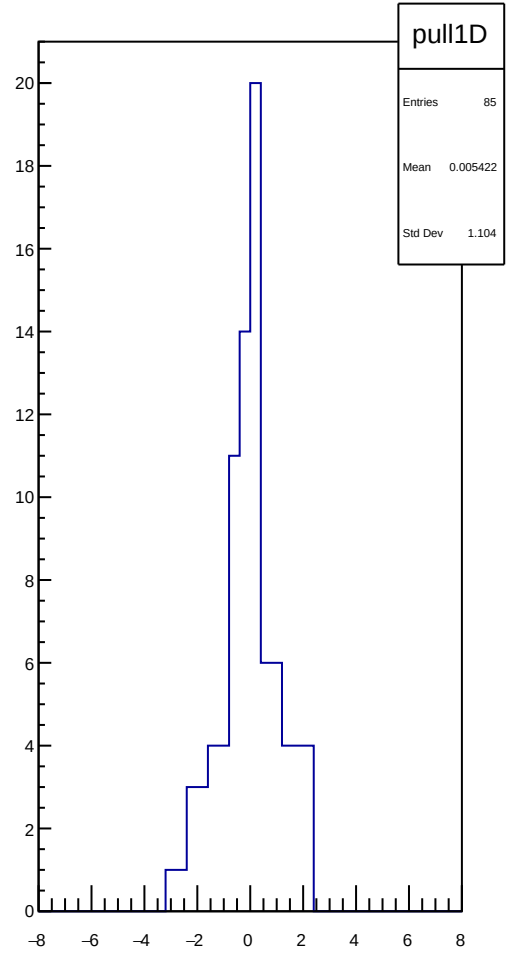

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 94.93 / 84
p0 1314 ± 1.024
1350
1340
1330
1320
1310
1300
1290
1280

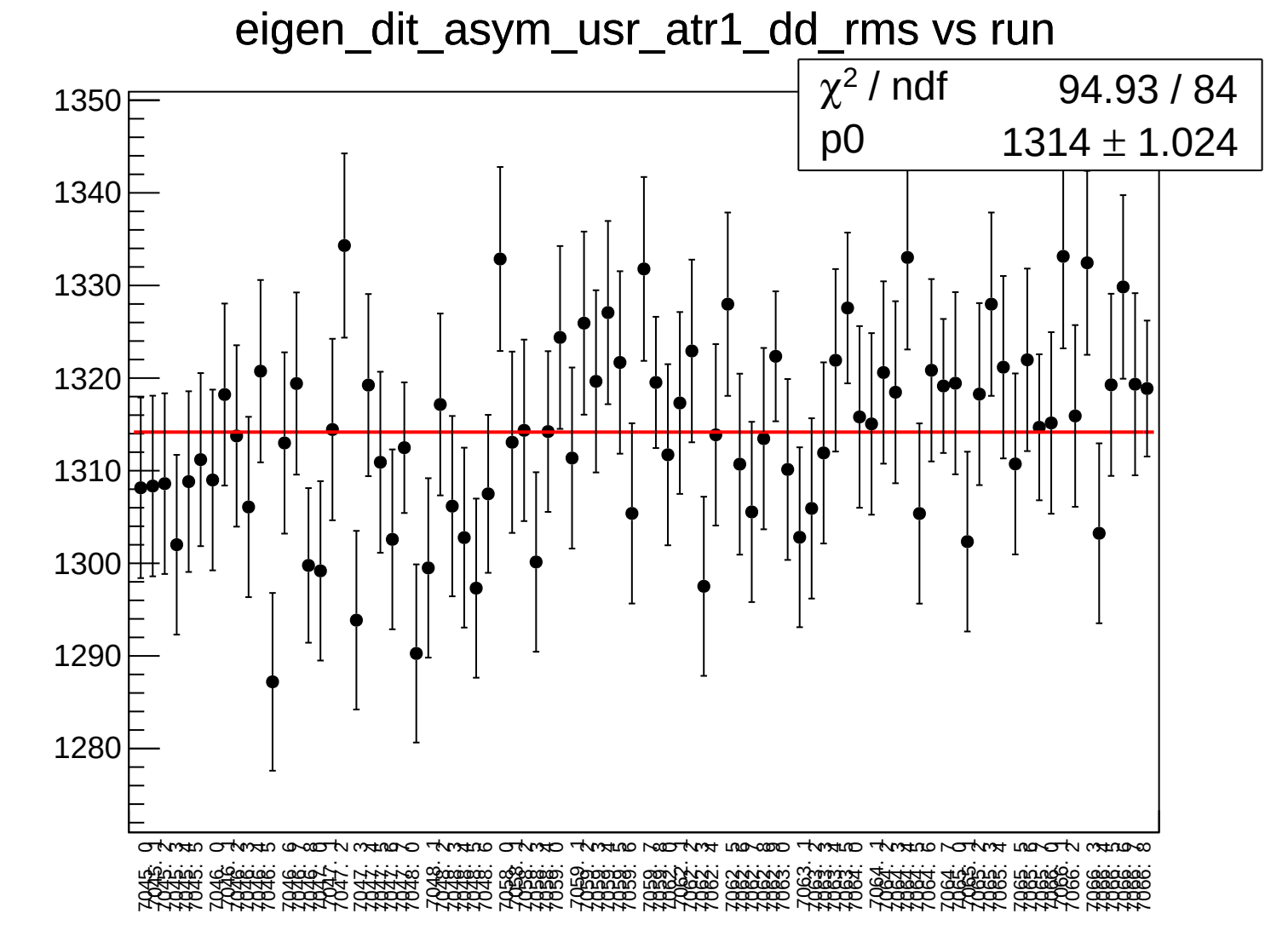

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 53.94 / 84
p0 −14.37 ± 783.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

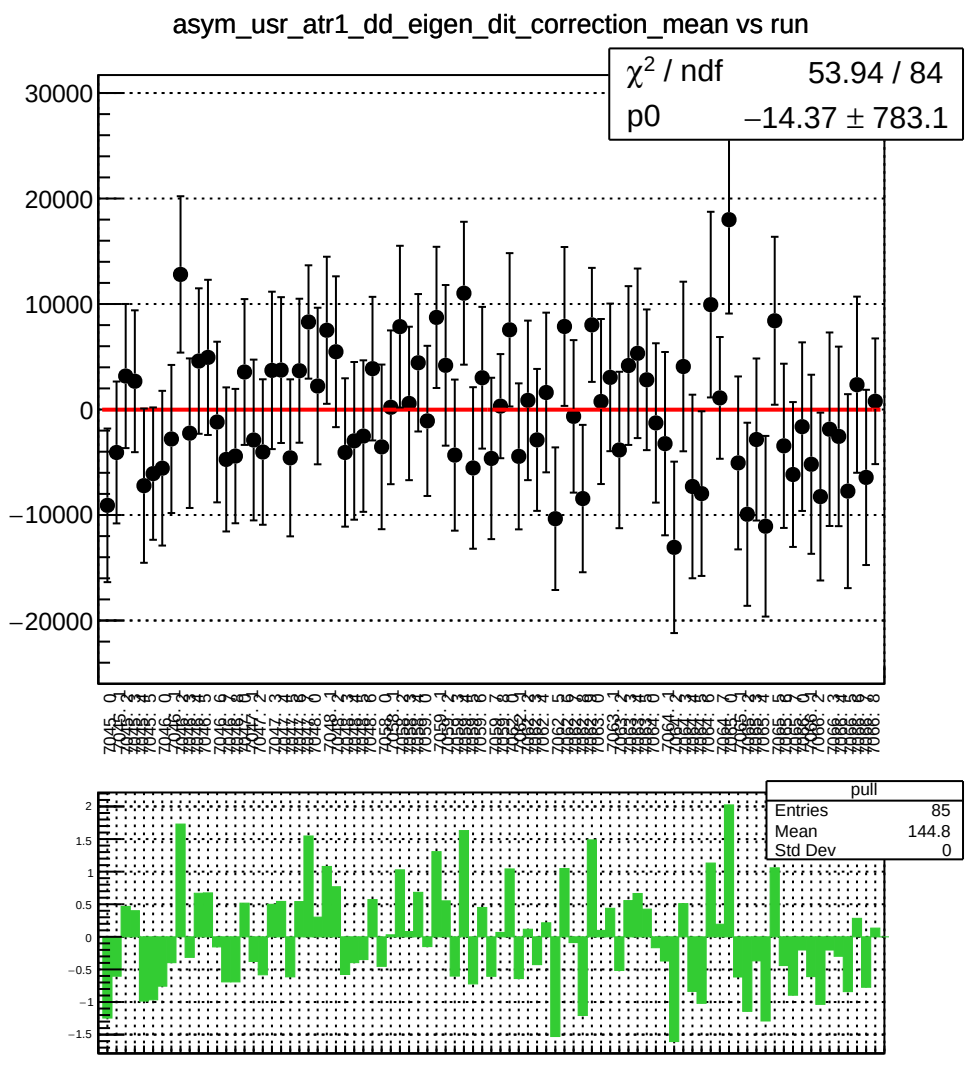

pull1D
Entries 85
Mean −0.02104
Std Dev 0.7963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

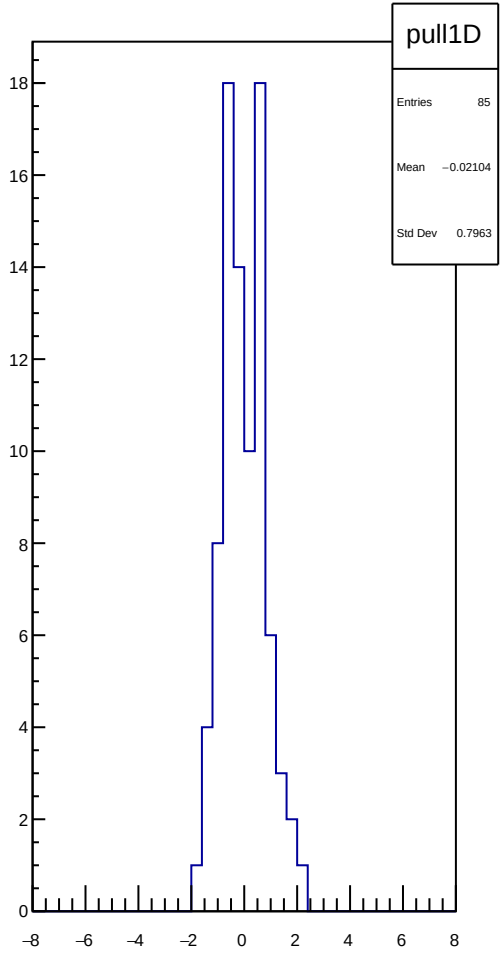

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.006e+04 / 84
p0 708.5 ± 0.5537
900
850
800
750
700
650
600

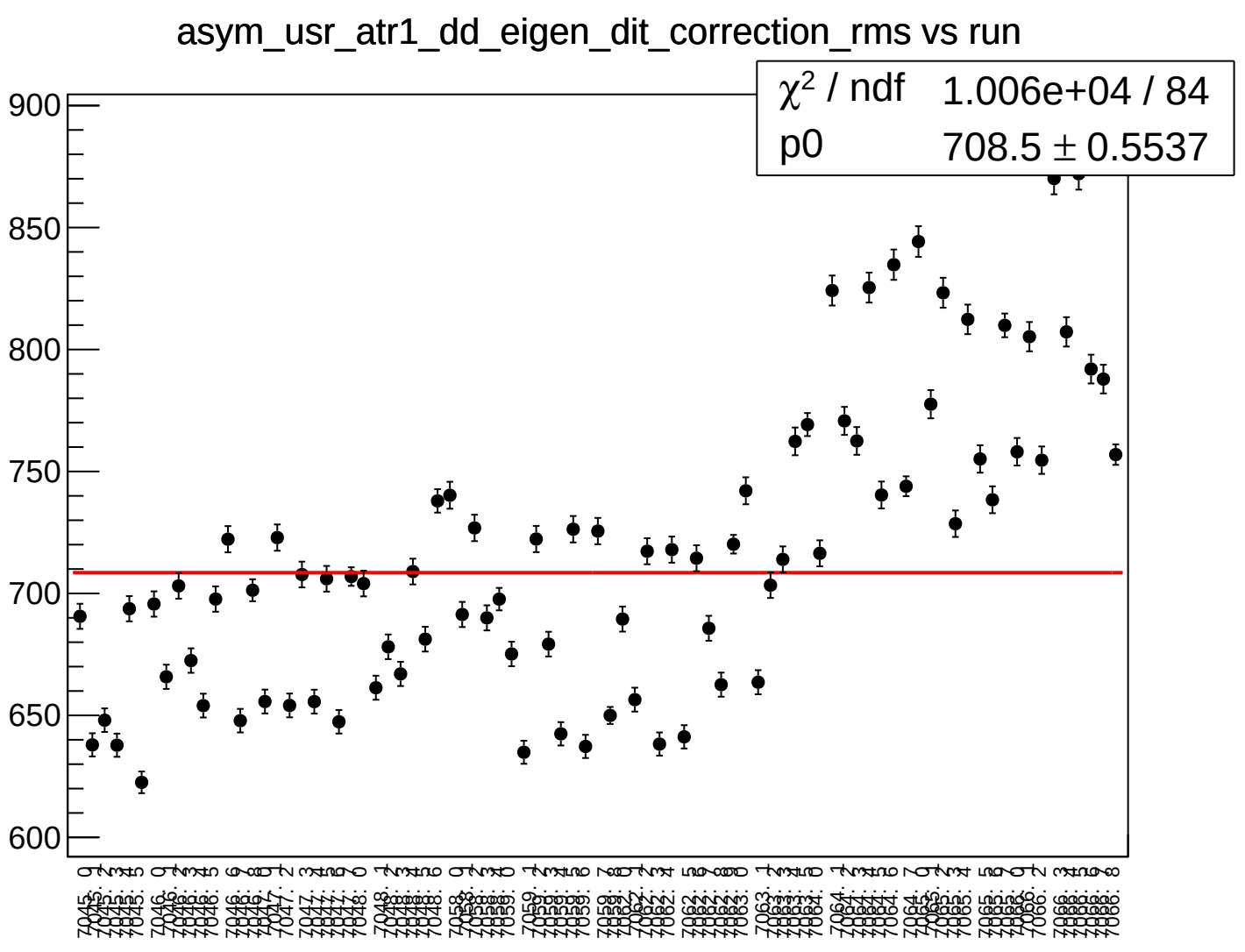

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 103.6 / 84
p0 2316 ± 1448
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −293.1
Std Dev 0
2
1
0
−1
−2
−3

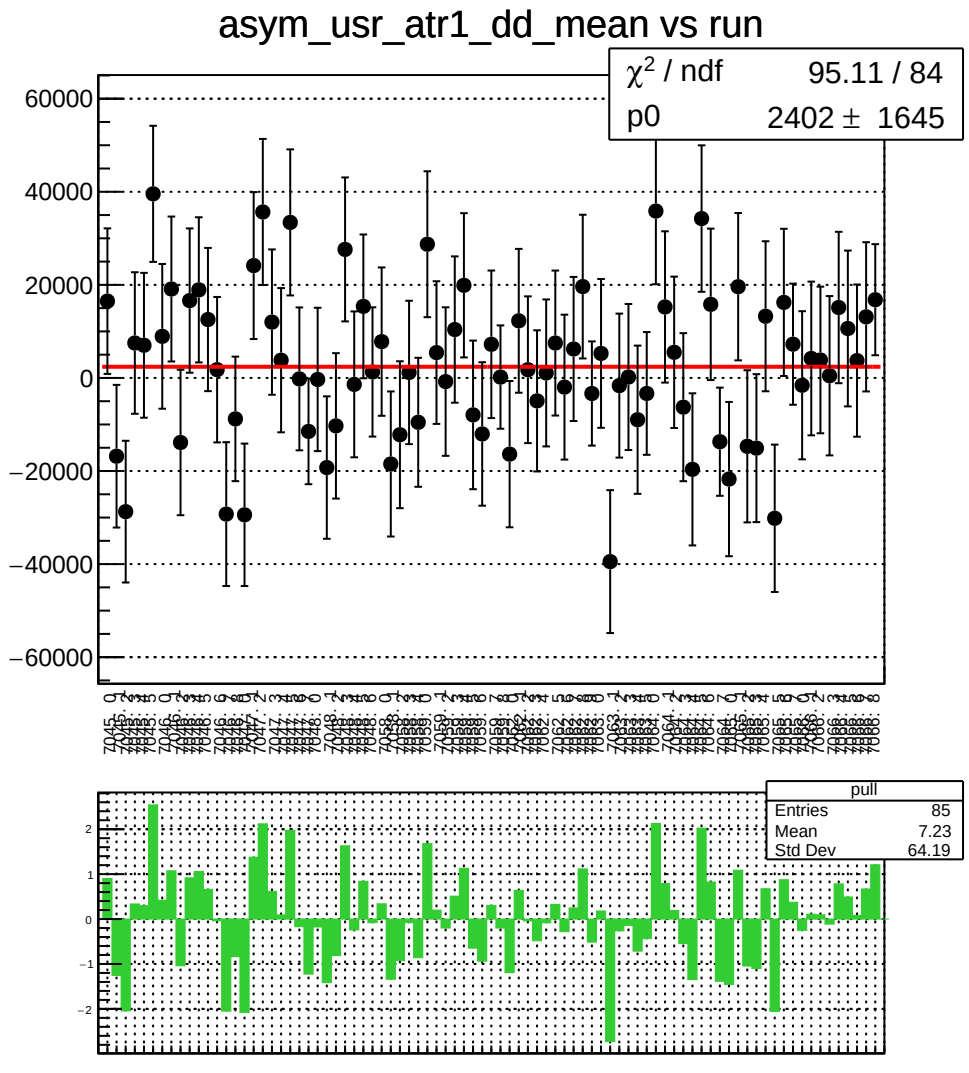

pull1D
Entries 85
Mean 0.005422
Std Dev 1.104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

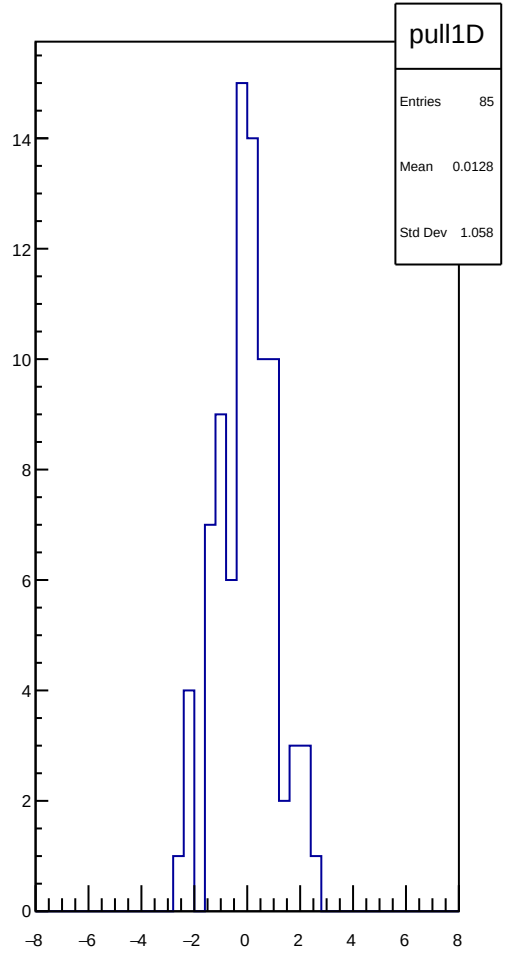

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 94.93 / 84
p0 1314 ± 1.024
1350
1340
1330
1320
1310
1300
1290
1280

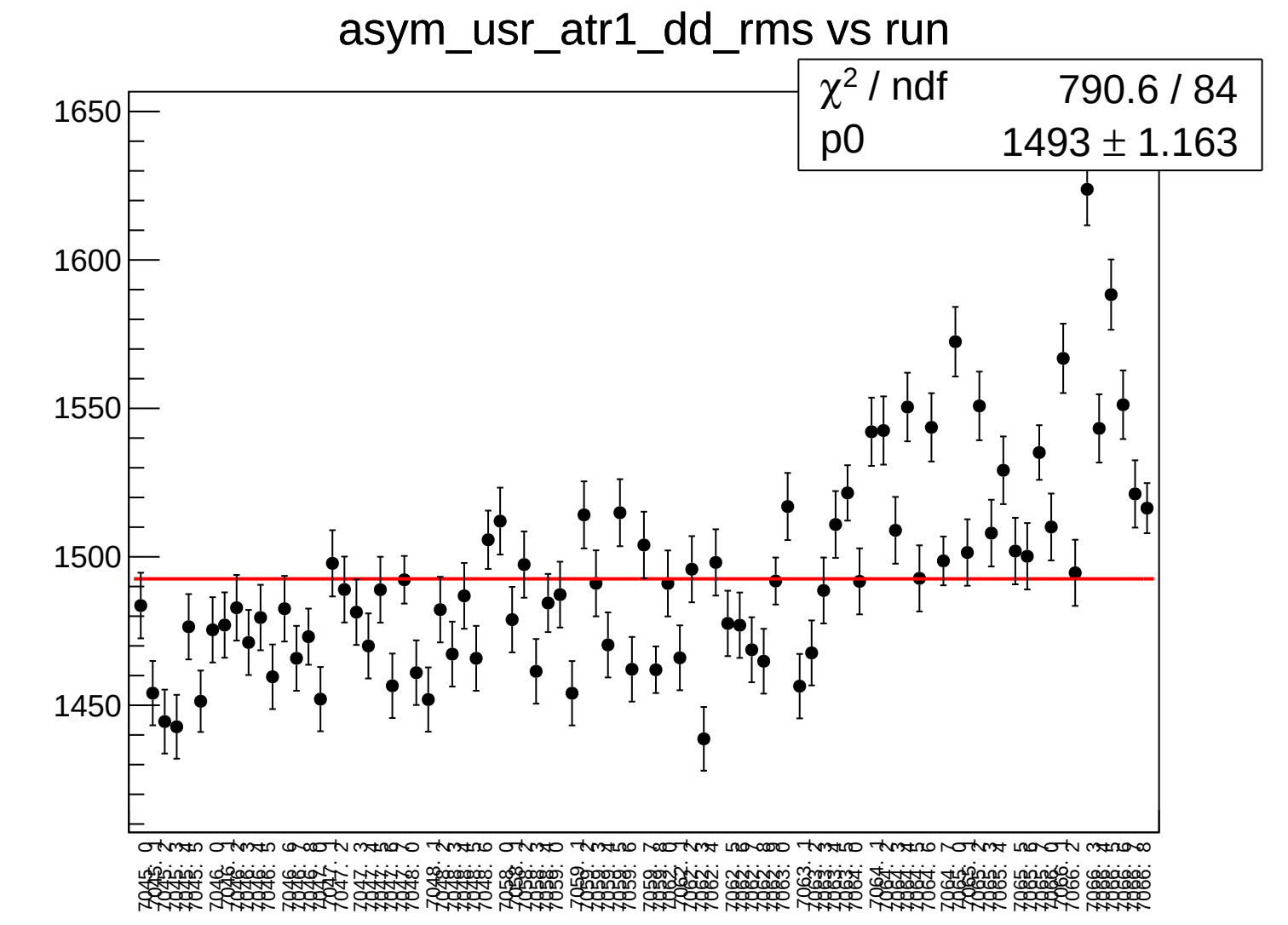

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 53.94 / 84
p0 −14.37 ± 783.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

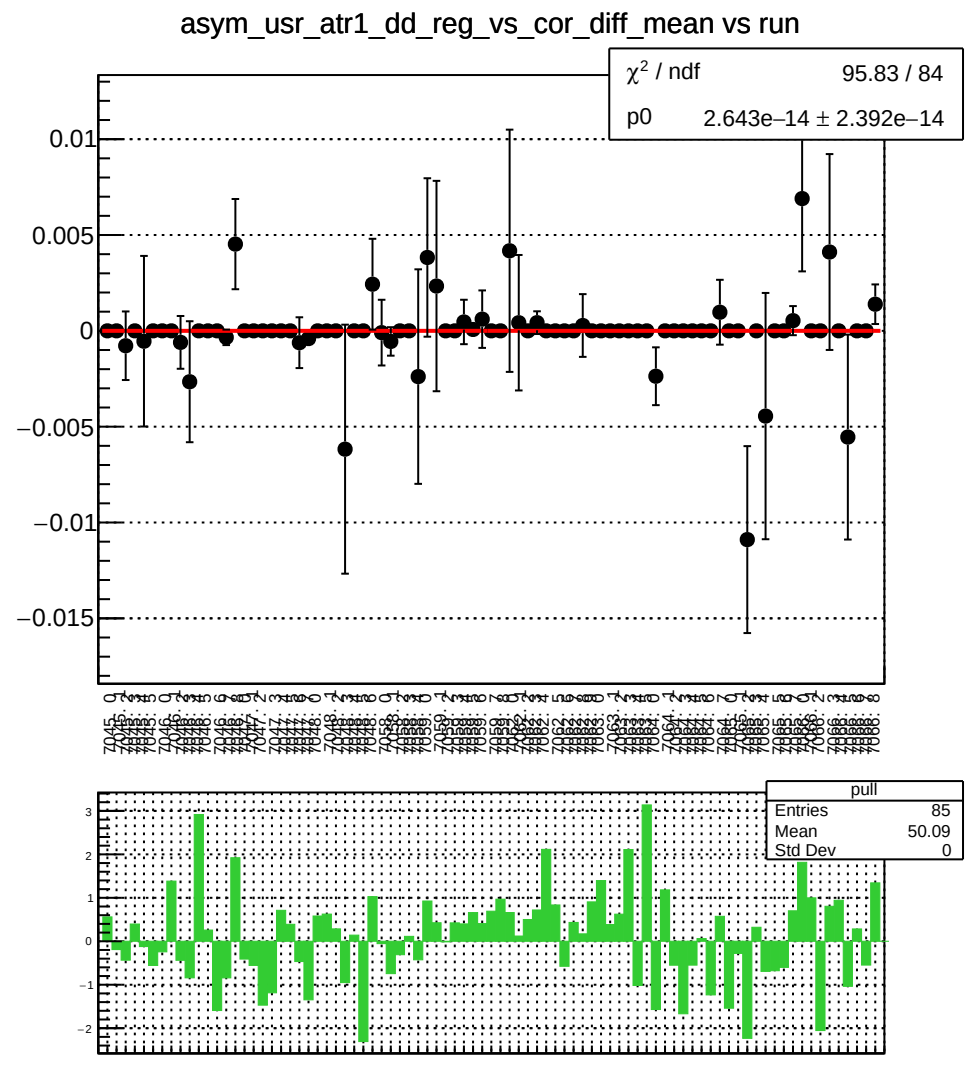

pull1D
Entries 85
Mean −0.02104
Std Dev 0.7963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

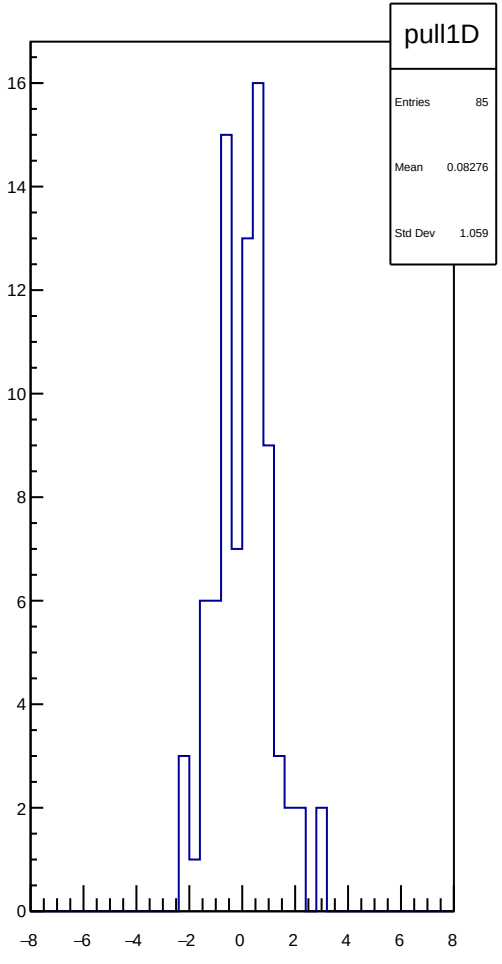

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.006e+04 / 84
p0 708.5 ± 0.5537
900
850
800
750
700
650
600

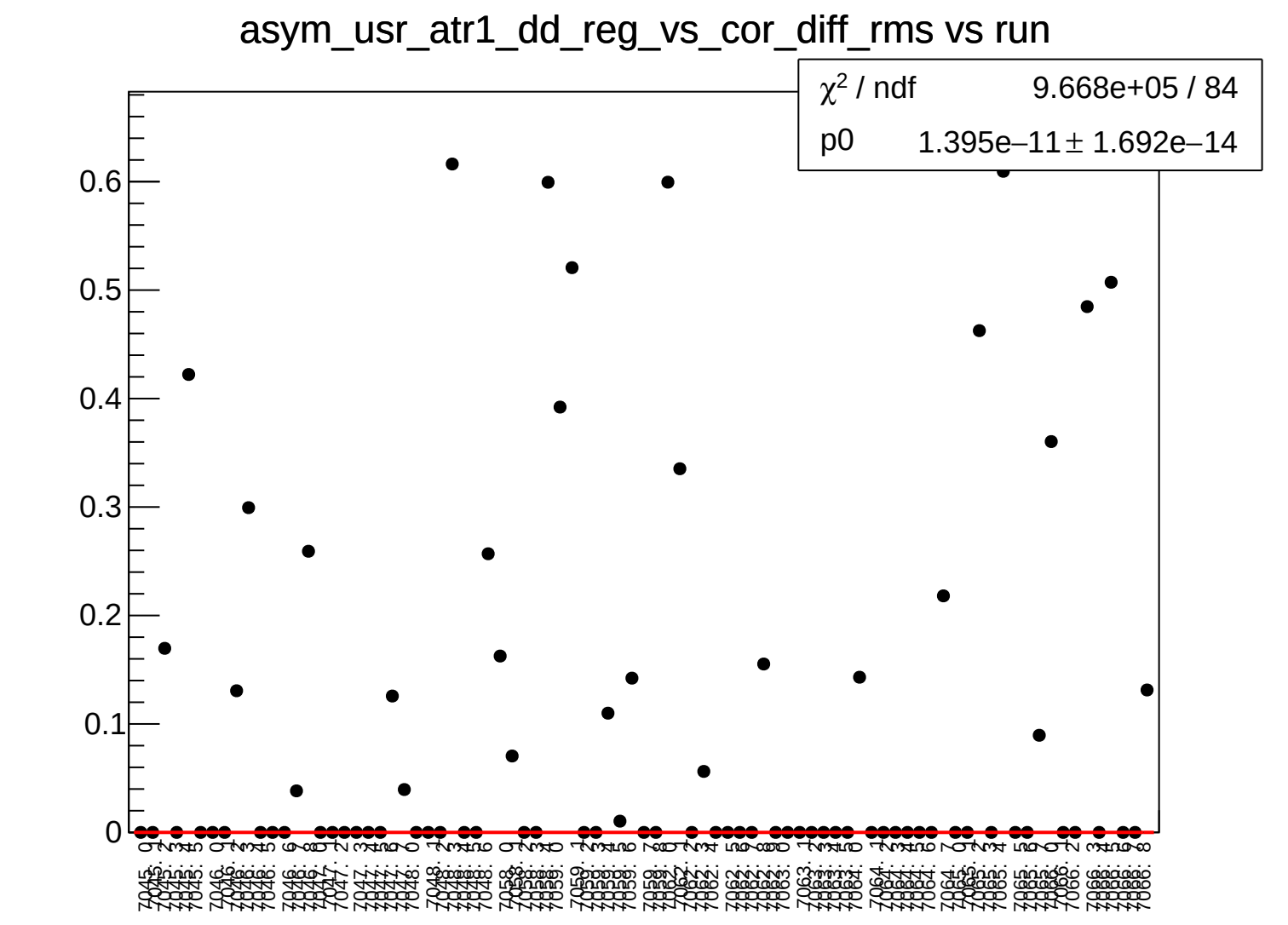

asym_usr_atr1_dd_mean vs run
χ² / ndf 95.11 / 84
p0 2402 ± 1645
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 7.23
Std Dev 64.19
2
1
0
−1
−2

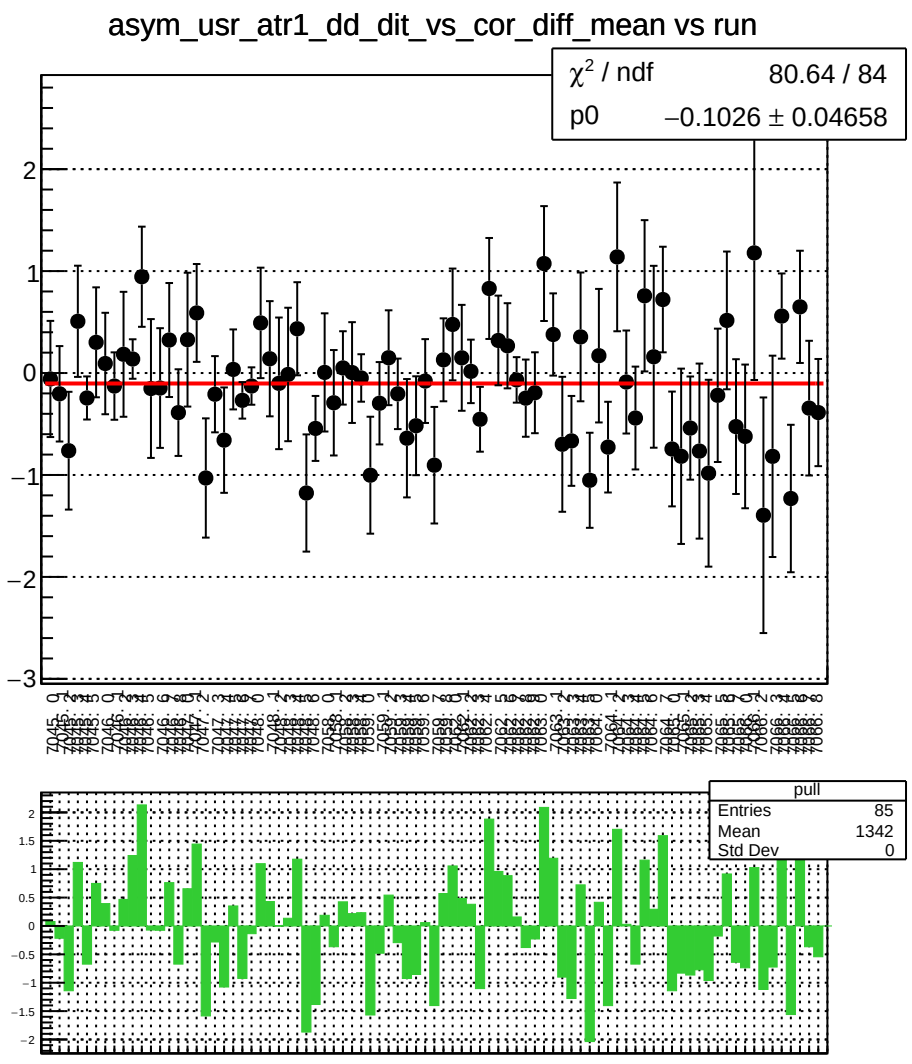

pull1D
Entries 85
Mean 0.0128
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

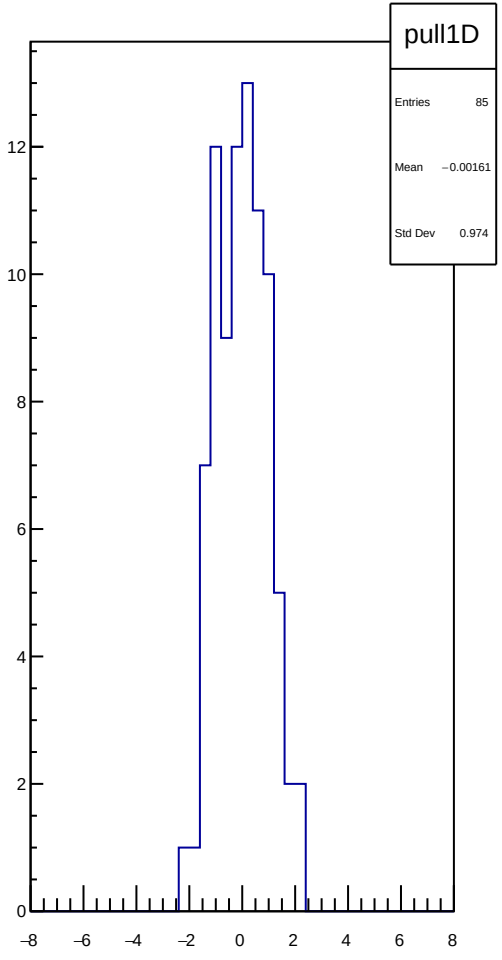

asym_usr_atr1_dd_rms vs run
χ² / ndf 790.6 / 84
p0 1493 ± 1.163
1650
1600
1550
1500
1450

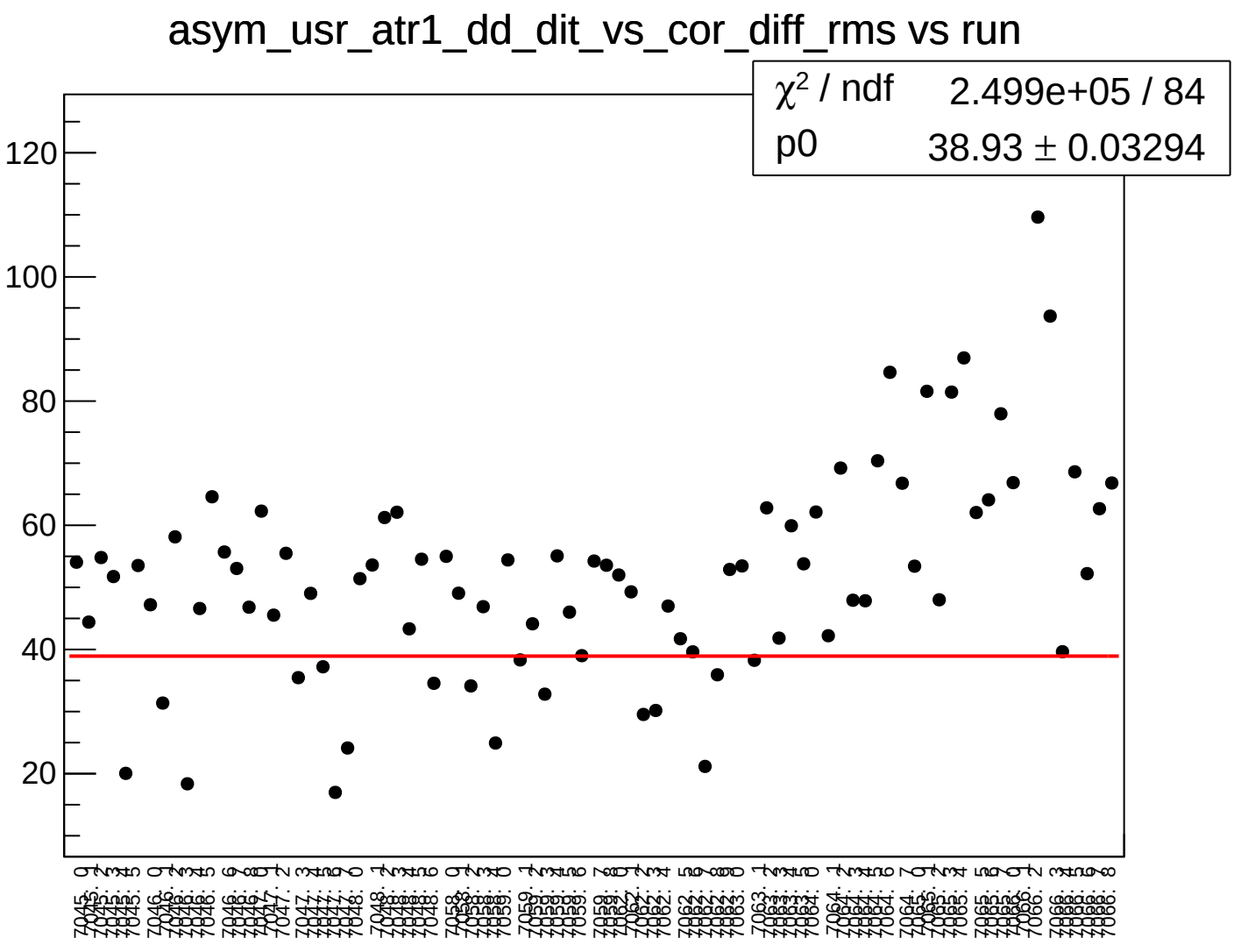

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.83 / 84
p0 2.643e−14 ± 2.392e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean 50.09
Std Dev 0
3
2
1
0
−1
−2

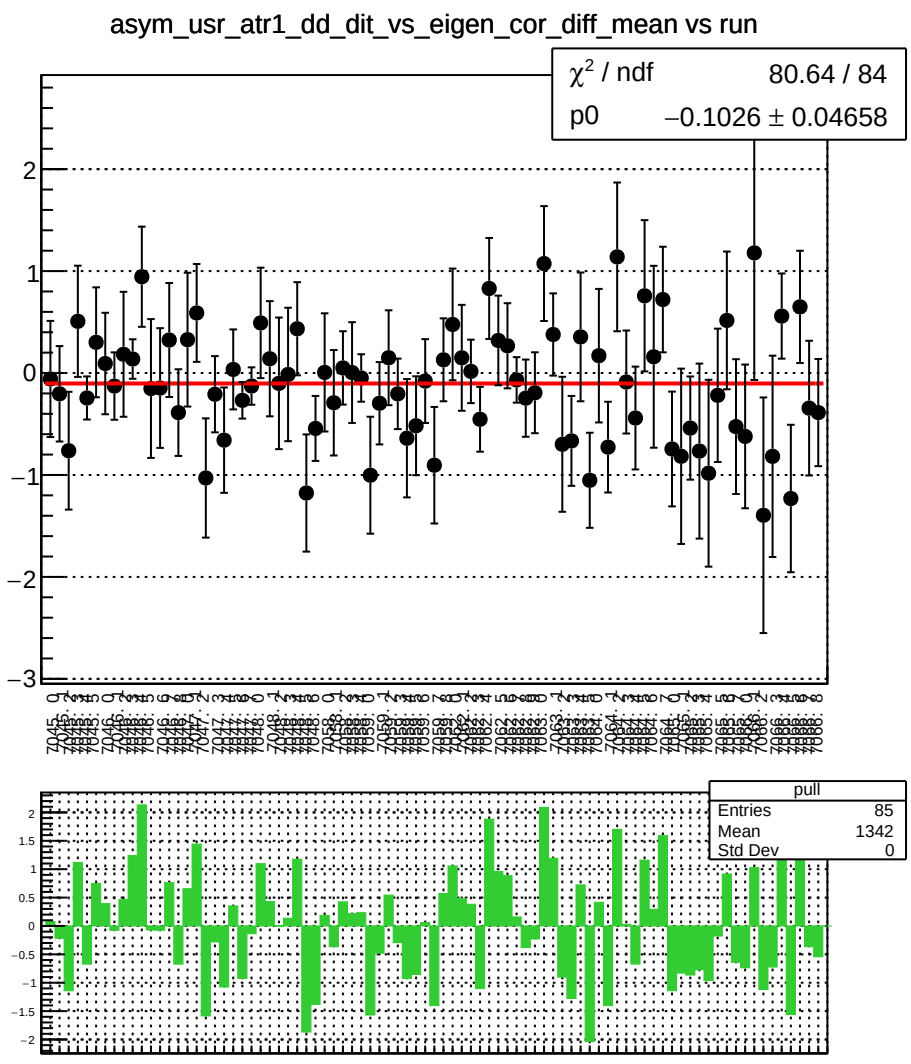

pull1D
Entries 85
Mean 0.08276
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

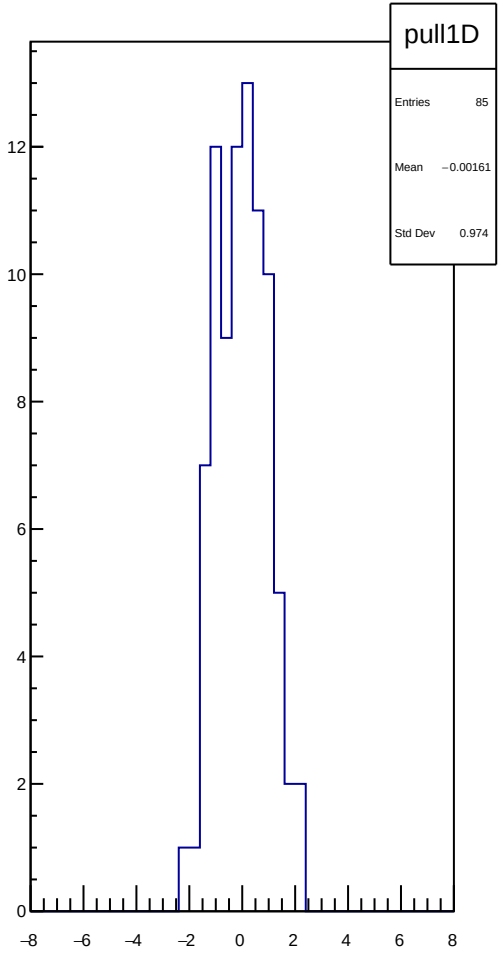

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.668e+05 / 84
p0 1.395e−11 ± 1.692e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

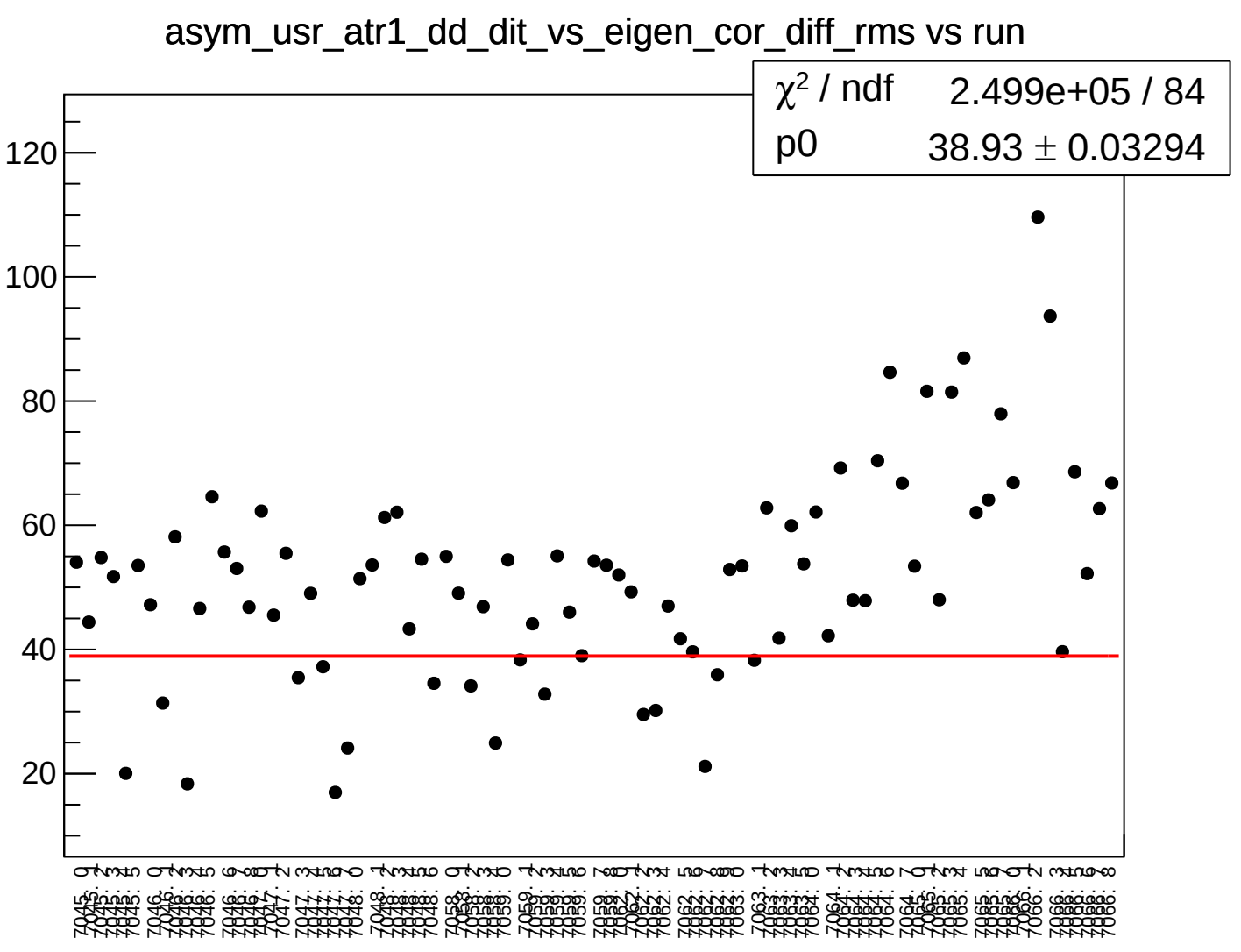

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.64 / 84
p0 −0.1026 ± 0.04658
pull
Entries 85
Mean 1342
Std Dev 0

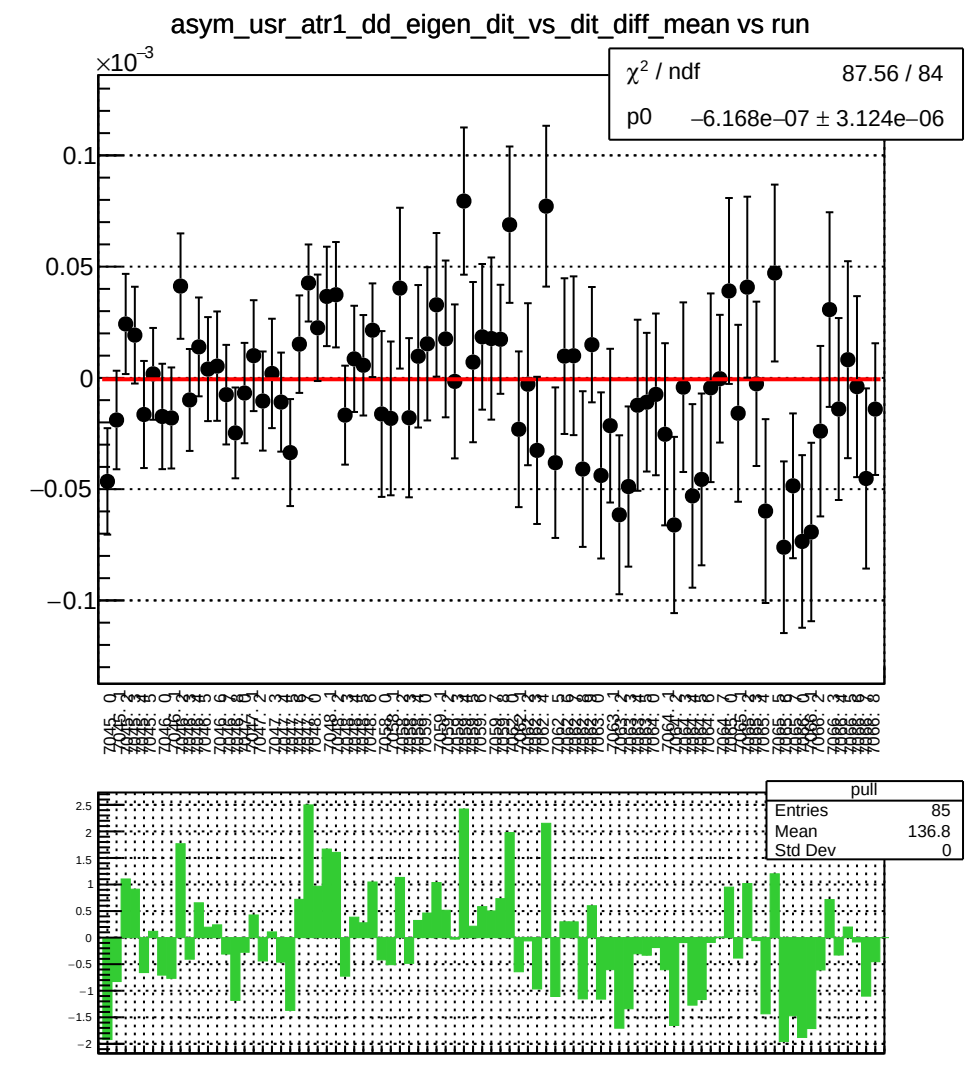

pull1D
Entries 85
Mean −0.00161
Std Dev 0.974

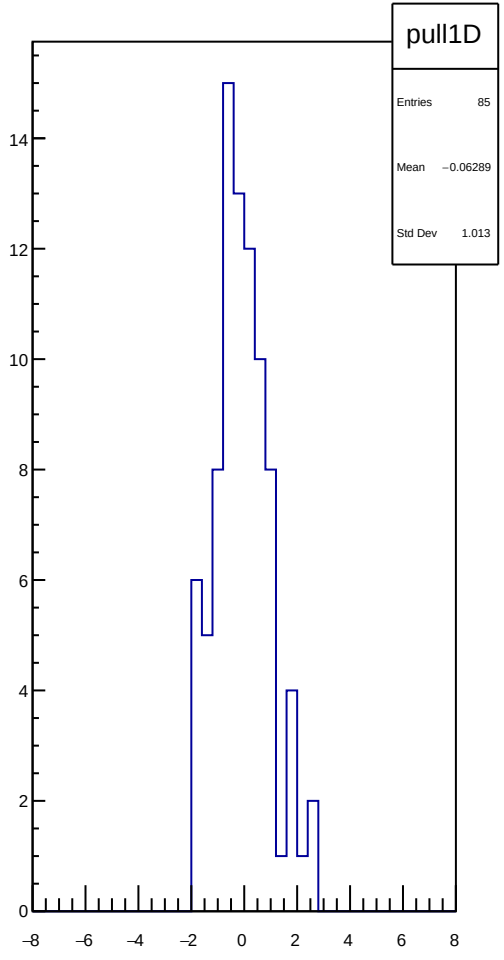

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.499e+05 / 84
p0 38.93 ± 0.03294
120
100
80
60
40
20

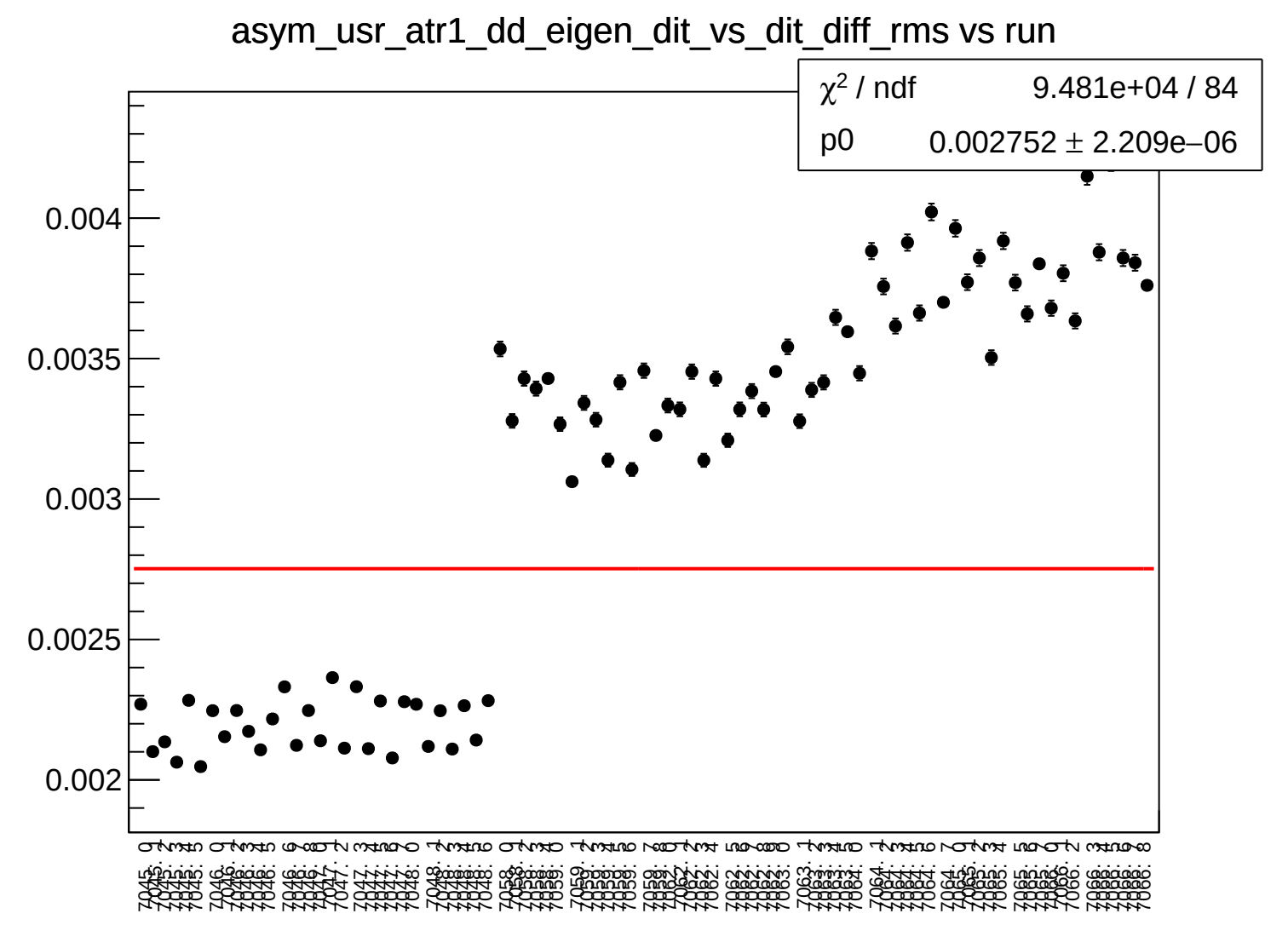

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.64 / 84
p0 −0.1026 ± 0.04658
pull
Entries 85
Mean 1342
Std Dev 0

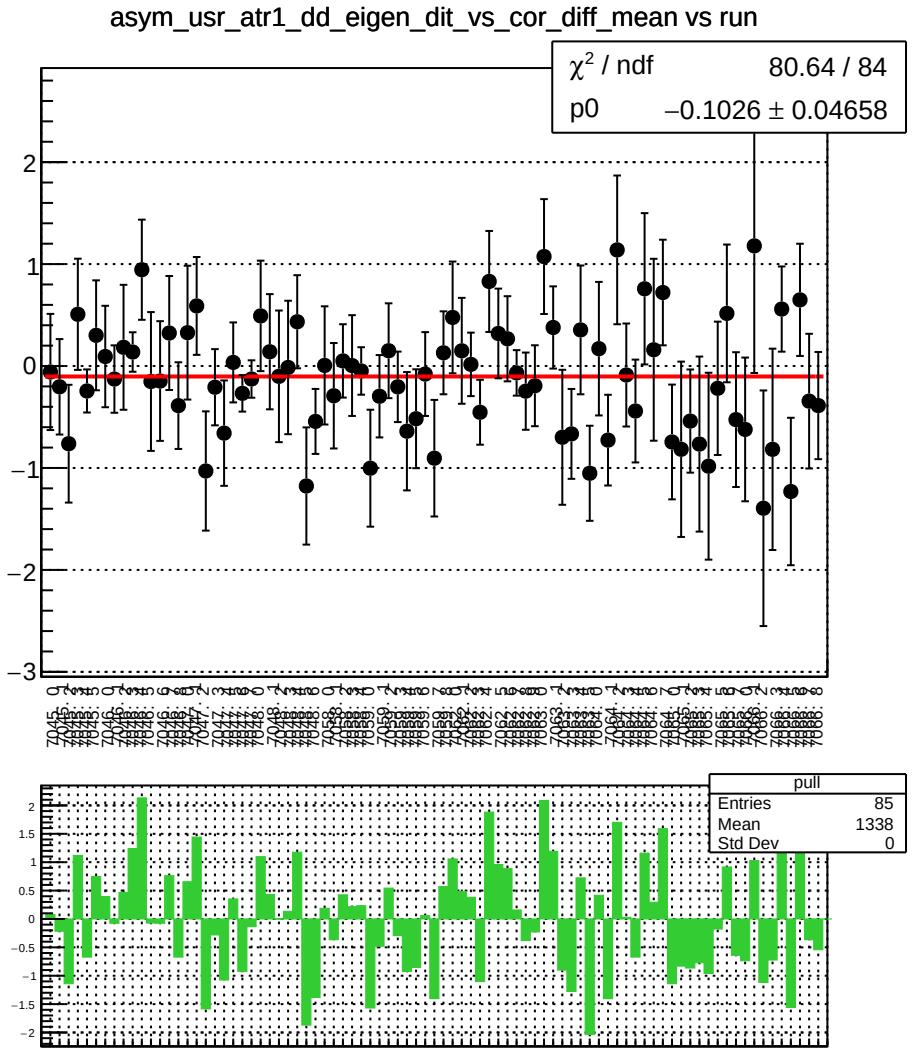

pull1D
Entries 85
Mean −0.00161
Std Dev 0.974

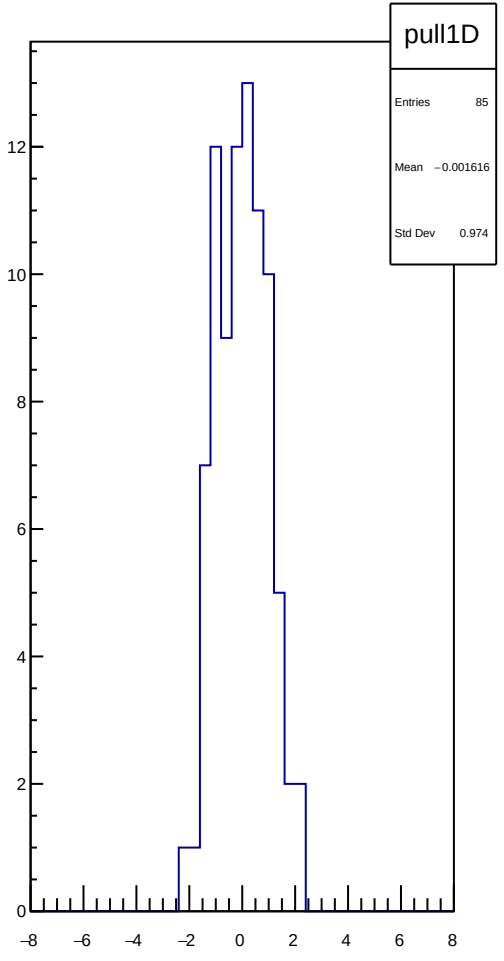

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.499e+05 / 84
p0 38.93 ± 0.03294
120
100
80
60
40
20

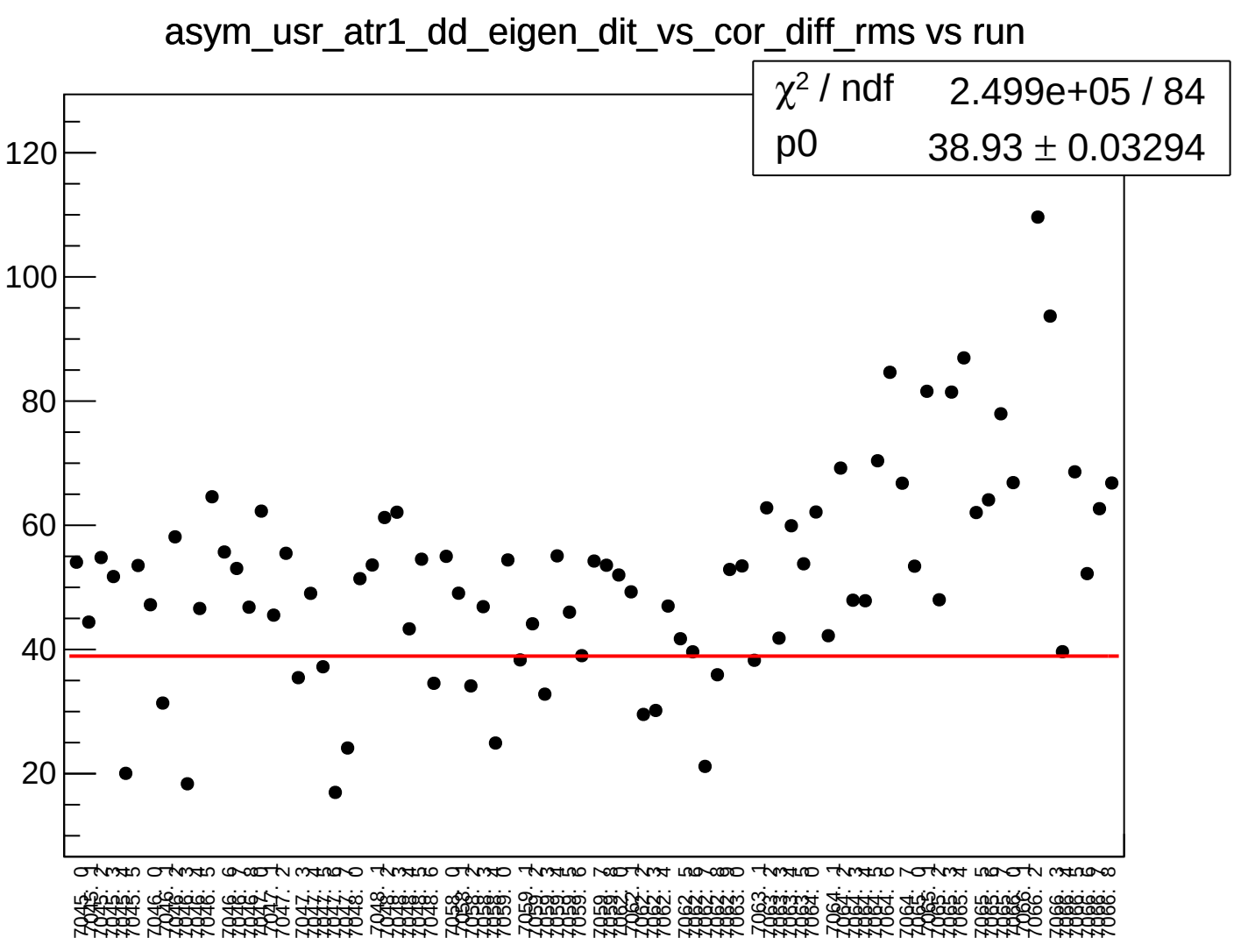

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.56 / 84
p0 −6.168e−07 ± 3.124e−06
pull
Entries 85
Mean 136.8
Std Dev 0

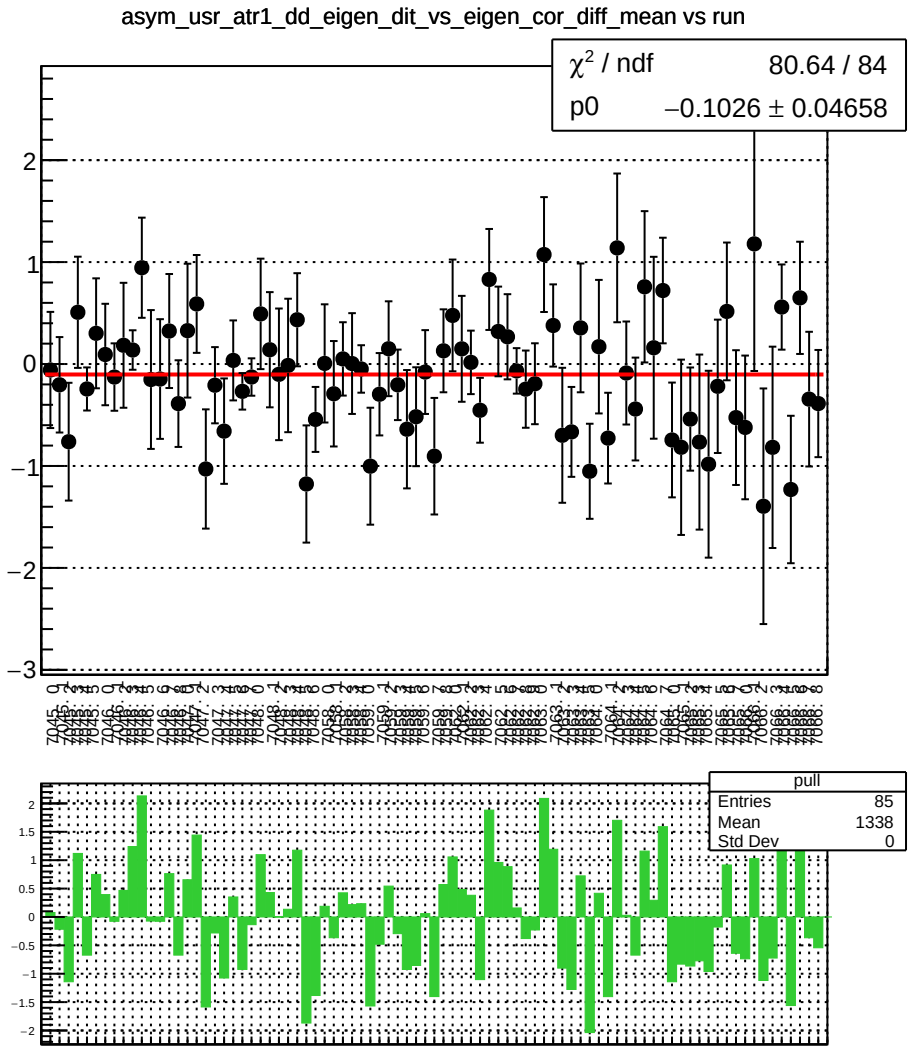

pull1D
Entries 85
Mean −0.06289
Std Dev 1.013

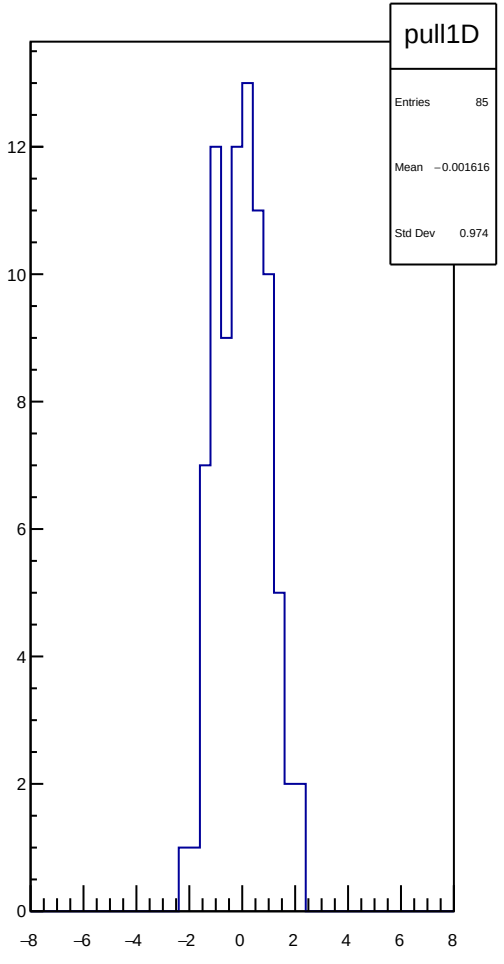

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.481e+04 / 84
p0 0.002752 ± 2.209e−06
0.004
0.0035
0.003
0.0025
0.002

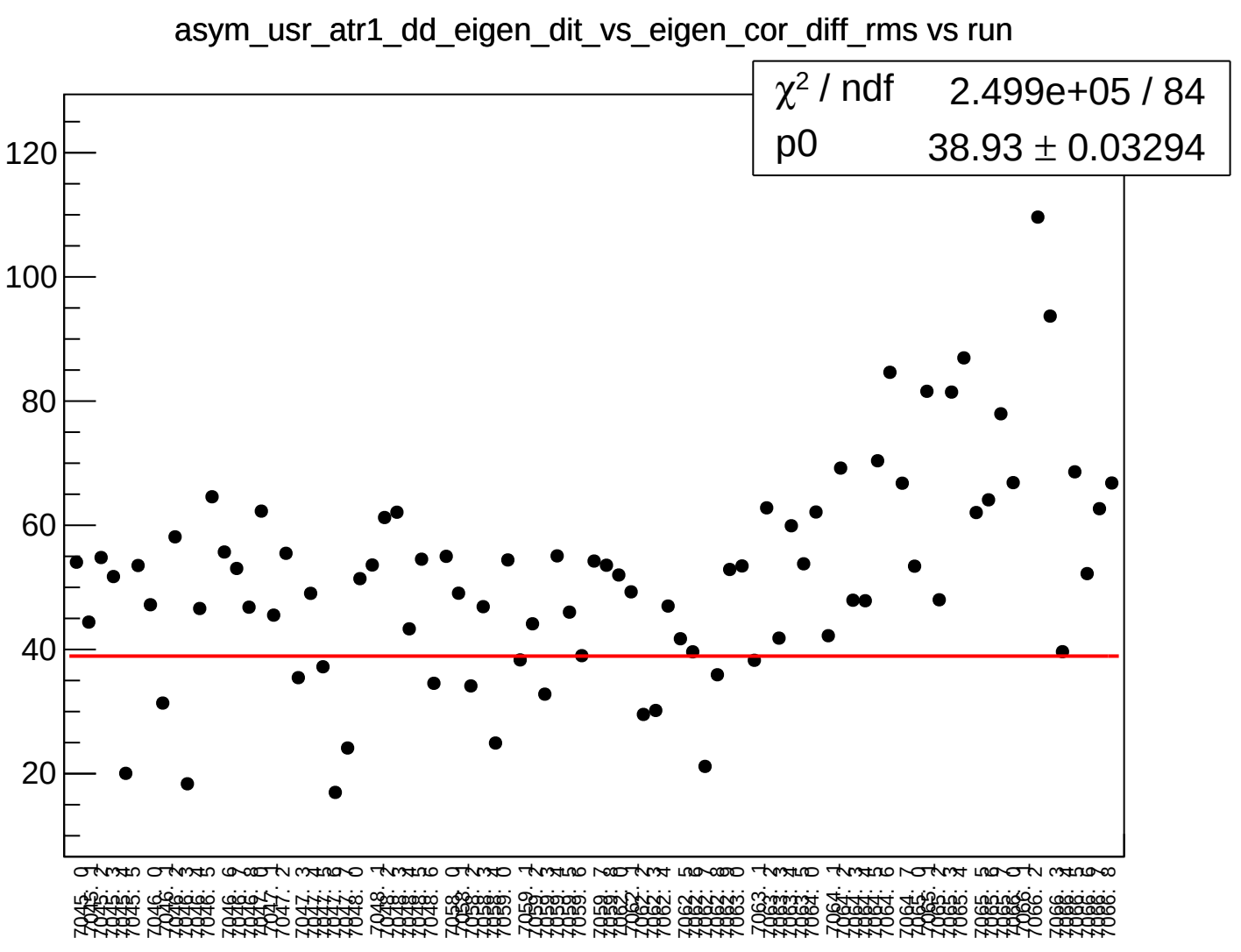

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.64 / 84
p0 −0.1026 ± 0.04658
pull
Entries 85
Mean 1338
Std Dev 0

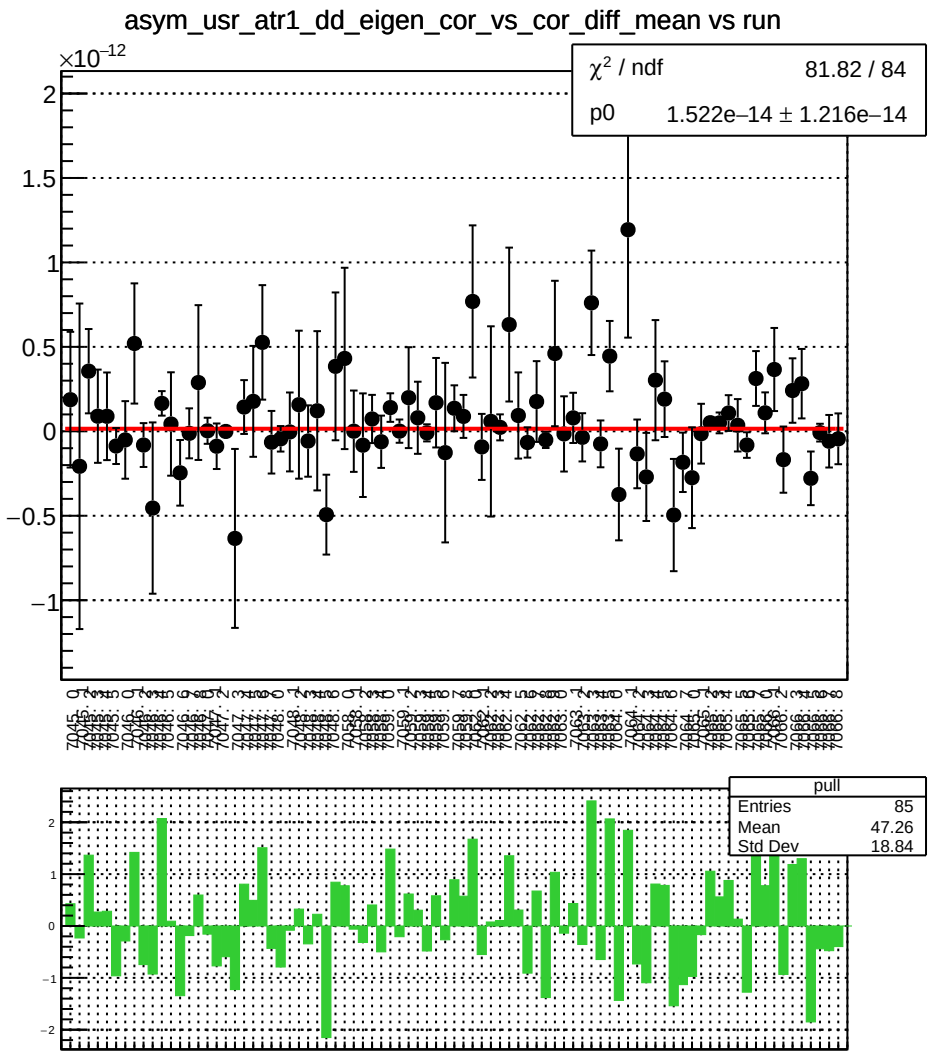

pull1D
Entries 85
Mean −0.001616
Std Dev 0.974

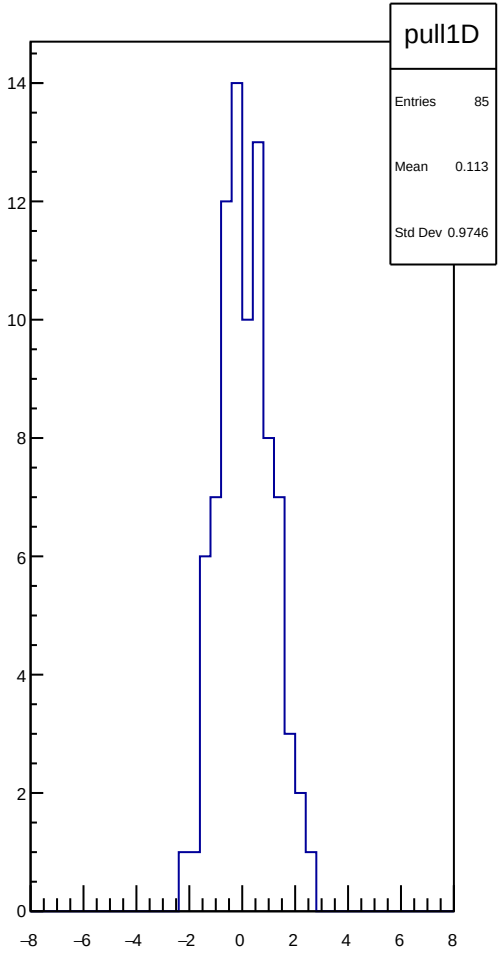

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.499e+05 / 84
p0 38.93 ± 0.03294
120
100
80
60
40
20

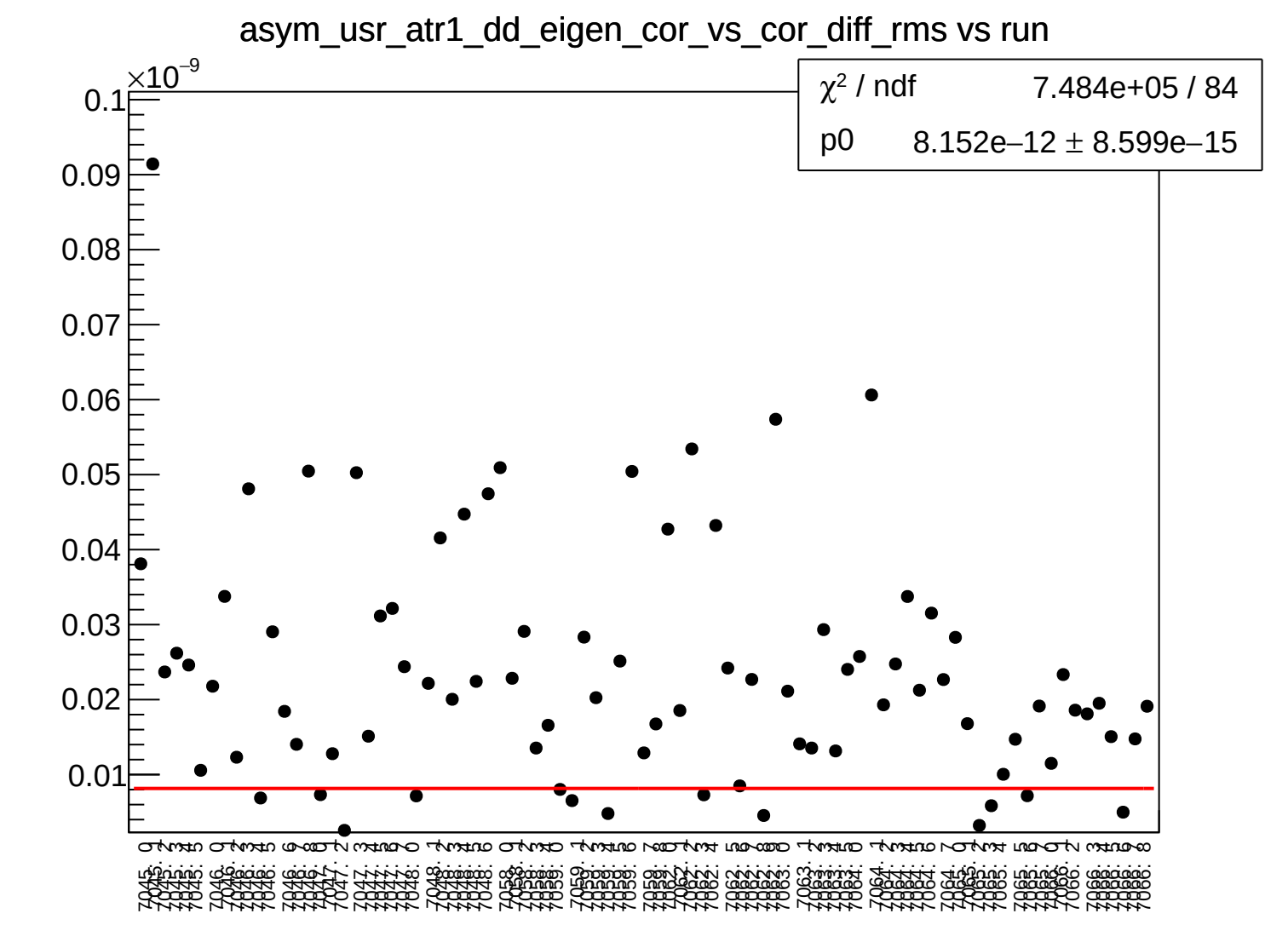

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.64 / 84
p0 −0.1026 ± 0.04658
pull
Entries 85
Mean 1338
Std Dev 0

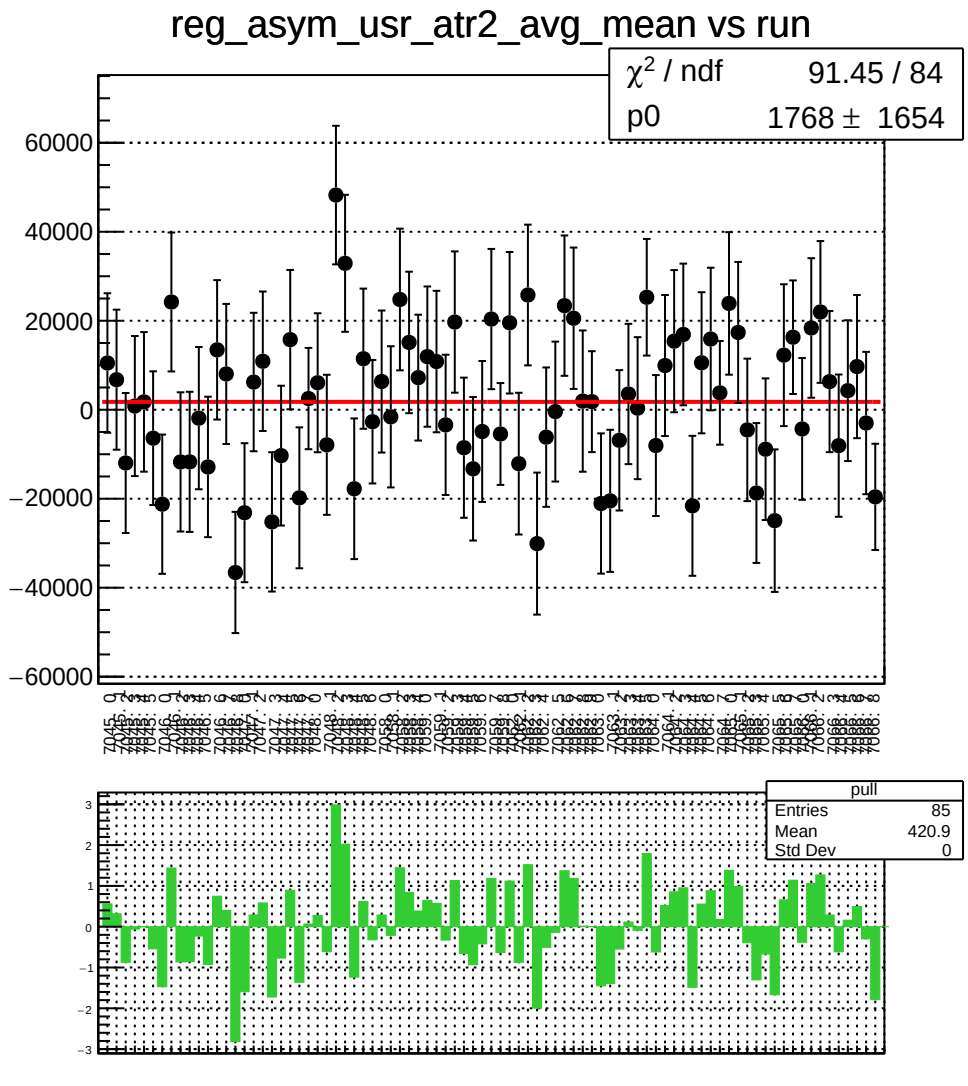

pull1D
Entries 85
Mean −0.001616
Std Dev 0.974

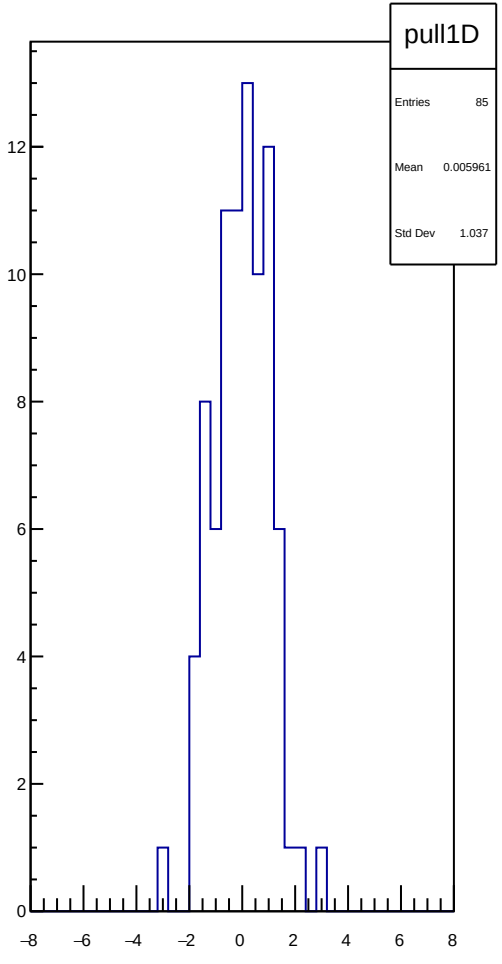

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.499e+05 / 84
p0 38.93 ± 0.03294
120
100
80
60
40
20

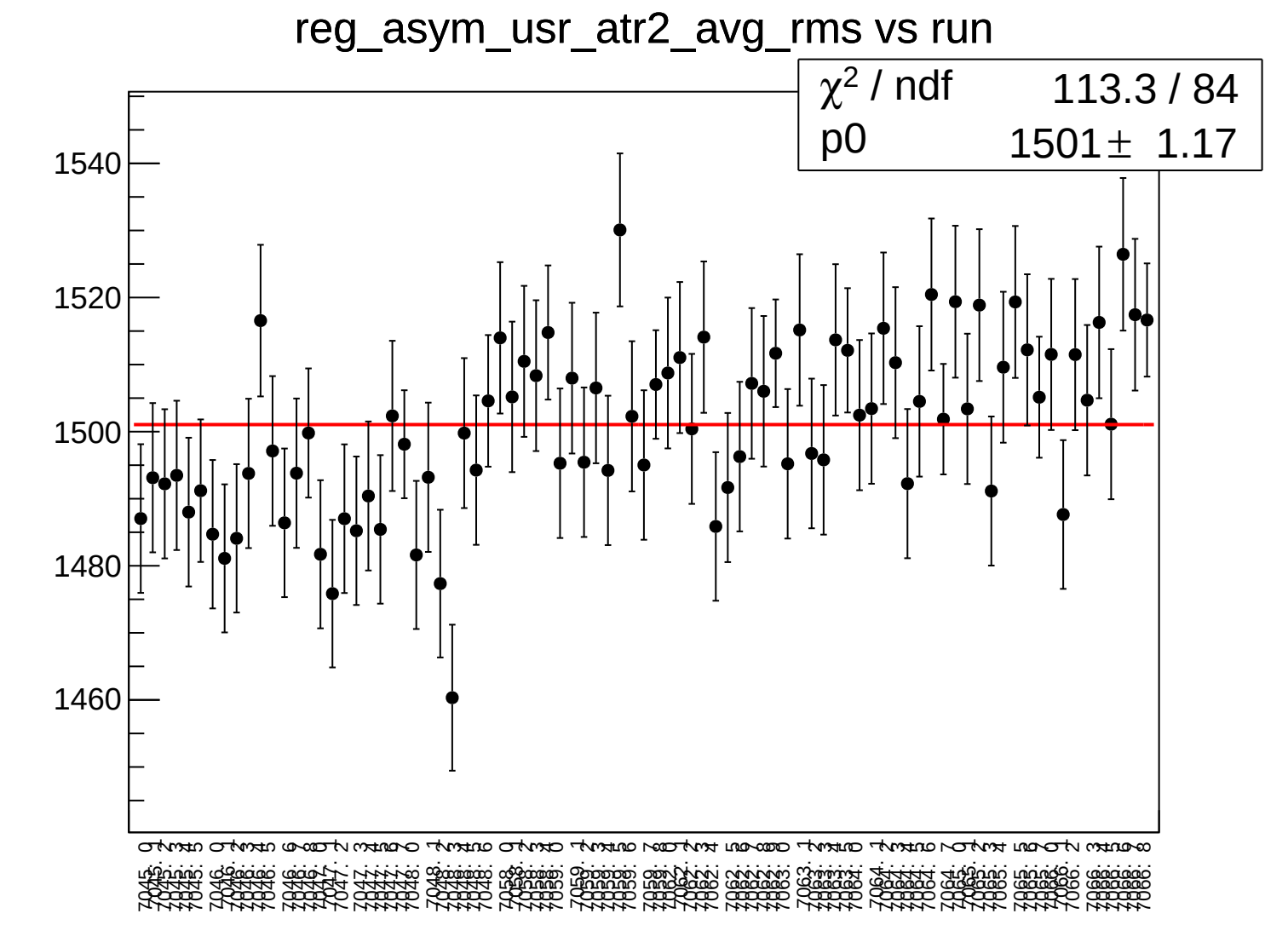

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.82 / 84
p0 1.522e−14 ± 1.216e−14
pull
Entries 85
Mean 47.26
Std Dev 18.84

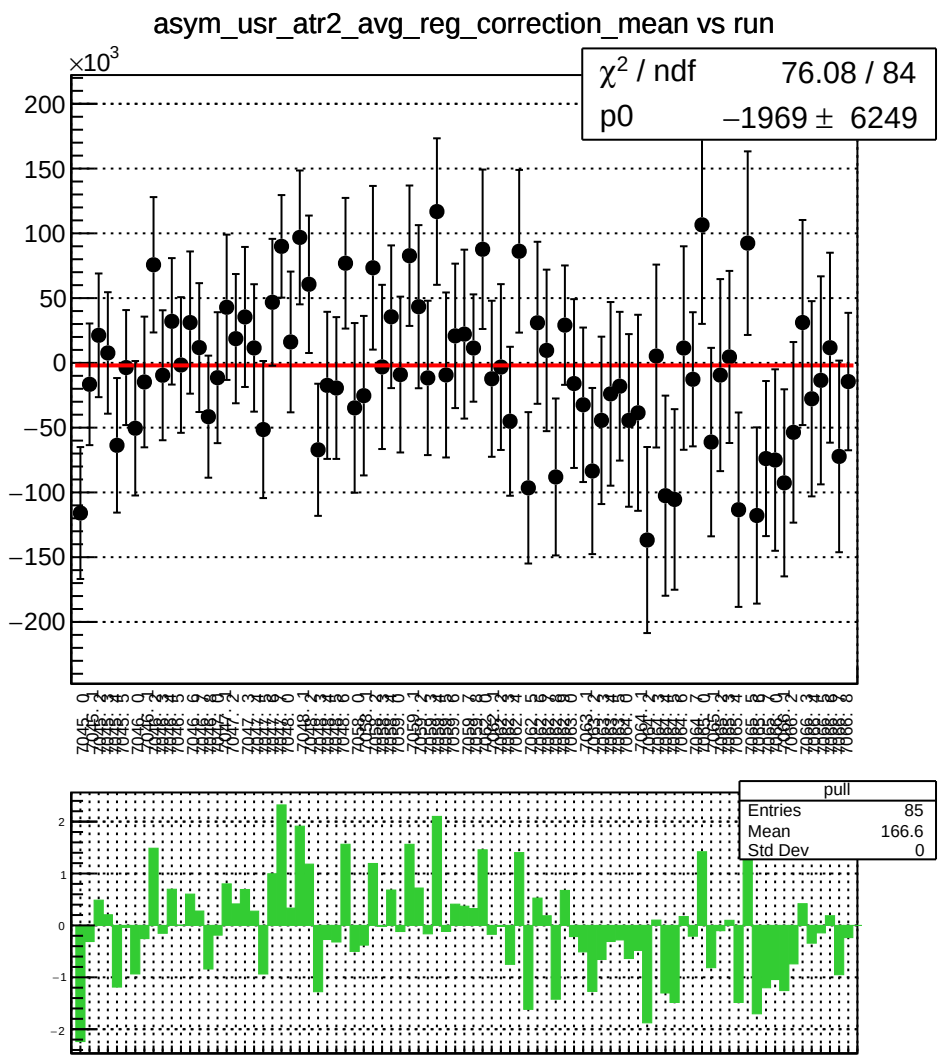

pull1D
Entries 85
Mean 0.113
Std Dev 0.9746

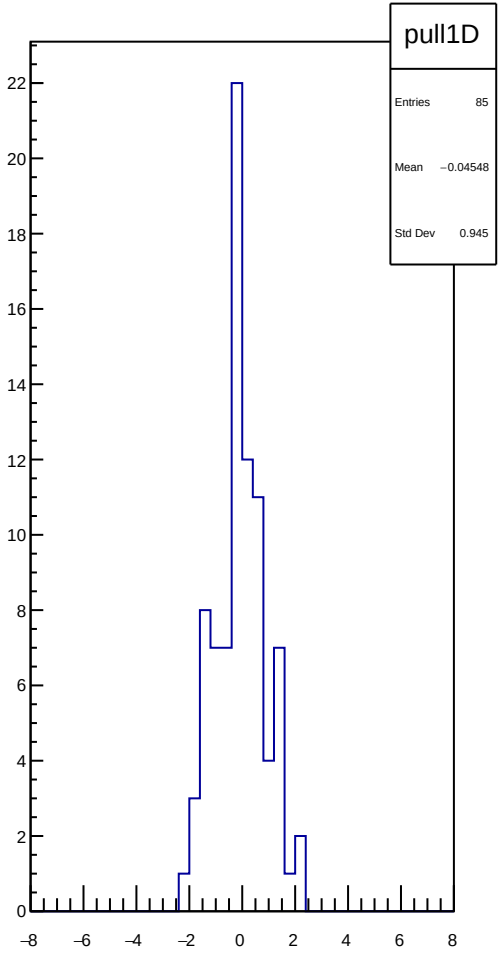

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.484e+05 / 84
p0 8.152e−12 ± 8.599e−15
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

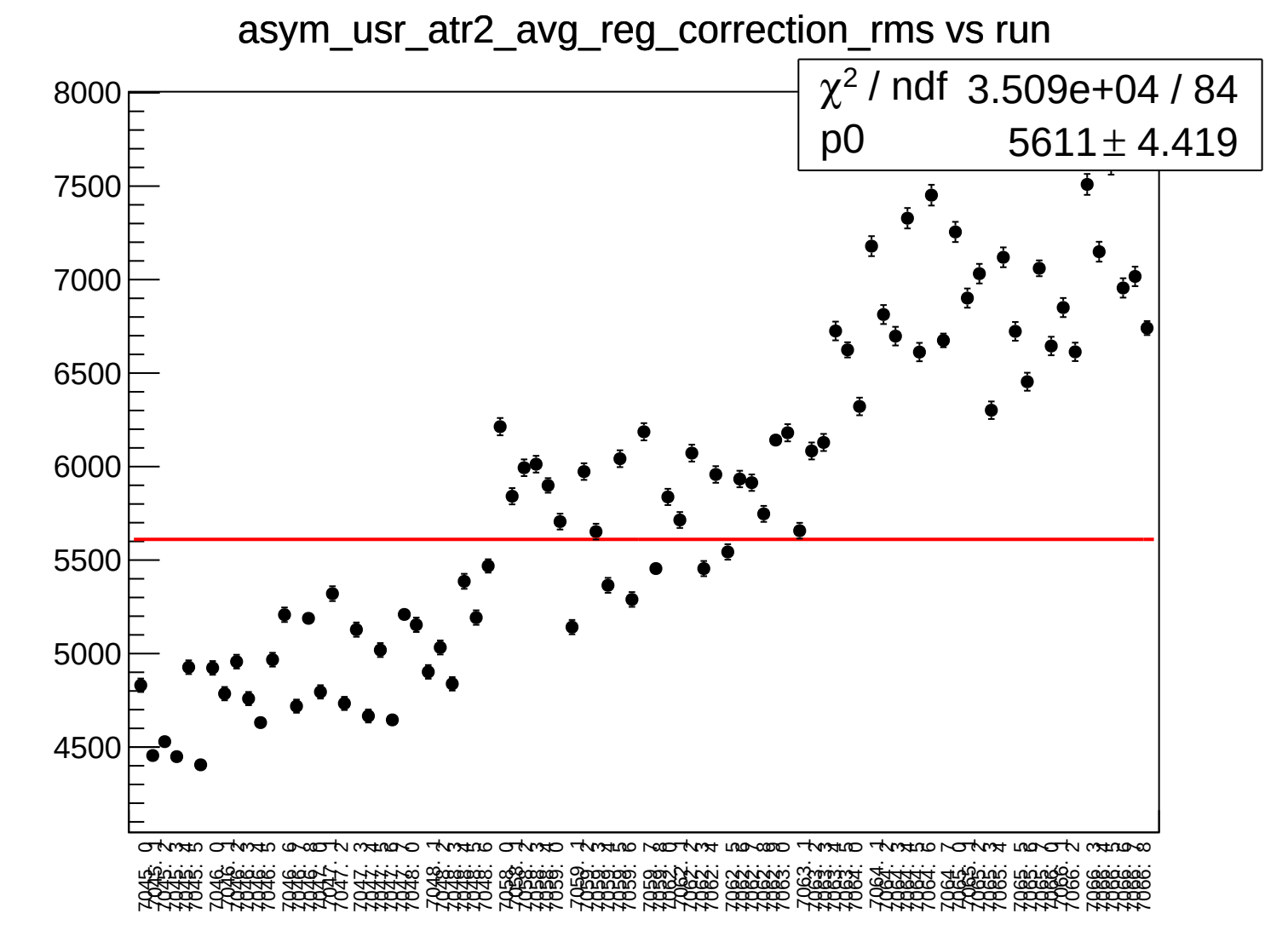

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.45 / 84
p0 1768 ± 1654
pull
Entries 85
Mean 420.9
Std Dev 0

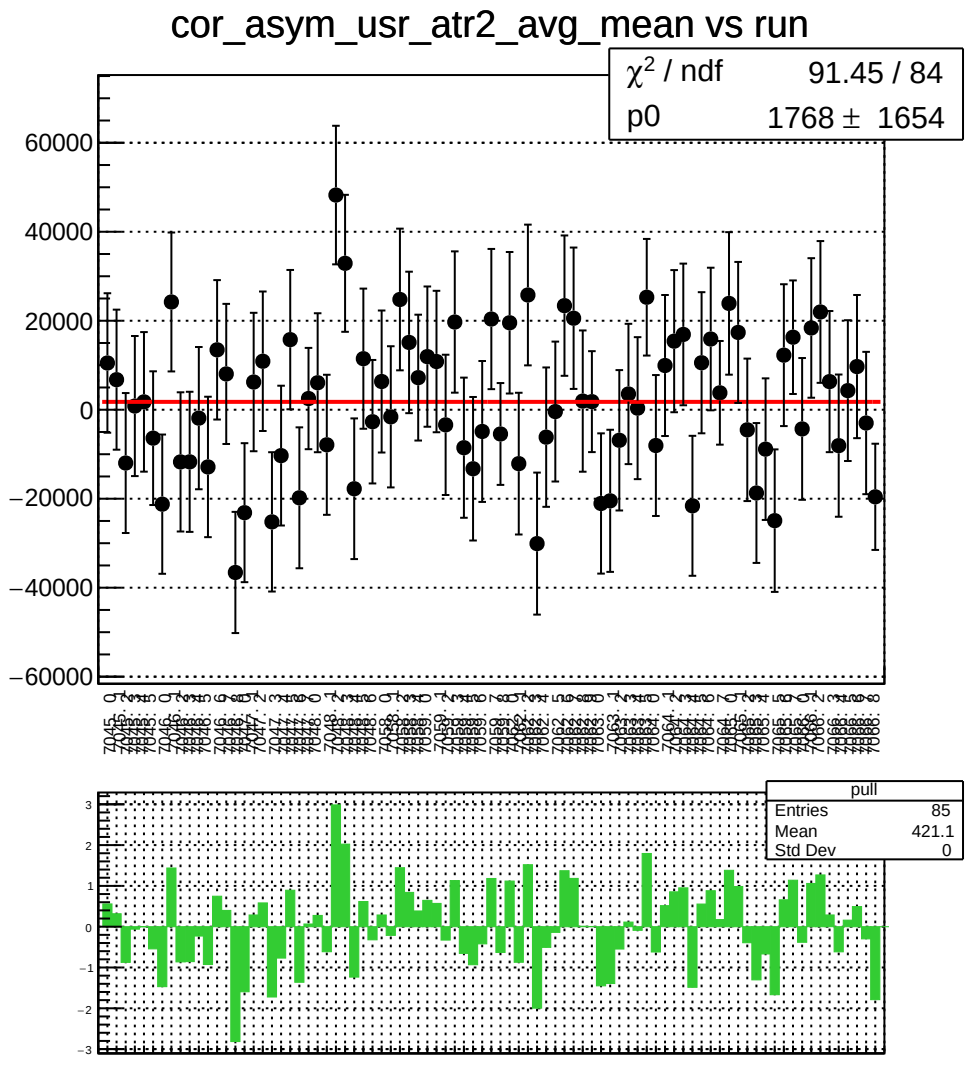

pull1D
Entries 85
Mean 0.005961
Std Dev 1.037

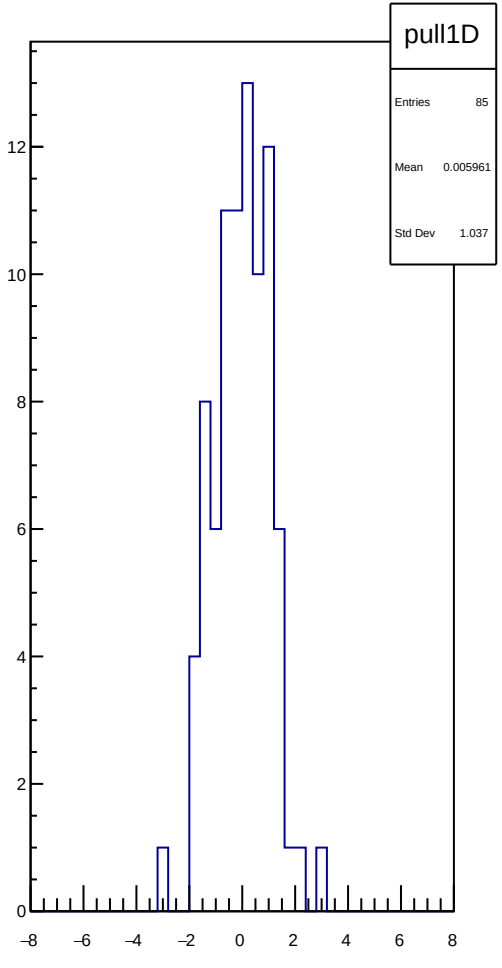

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 113.3 / 84
p0 1501 ± 1.17
1540
1520
1500
1480
1460

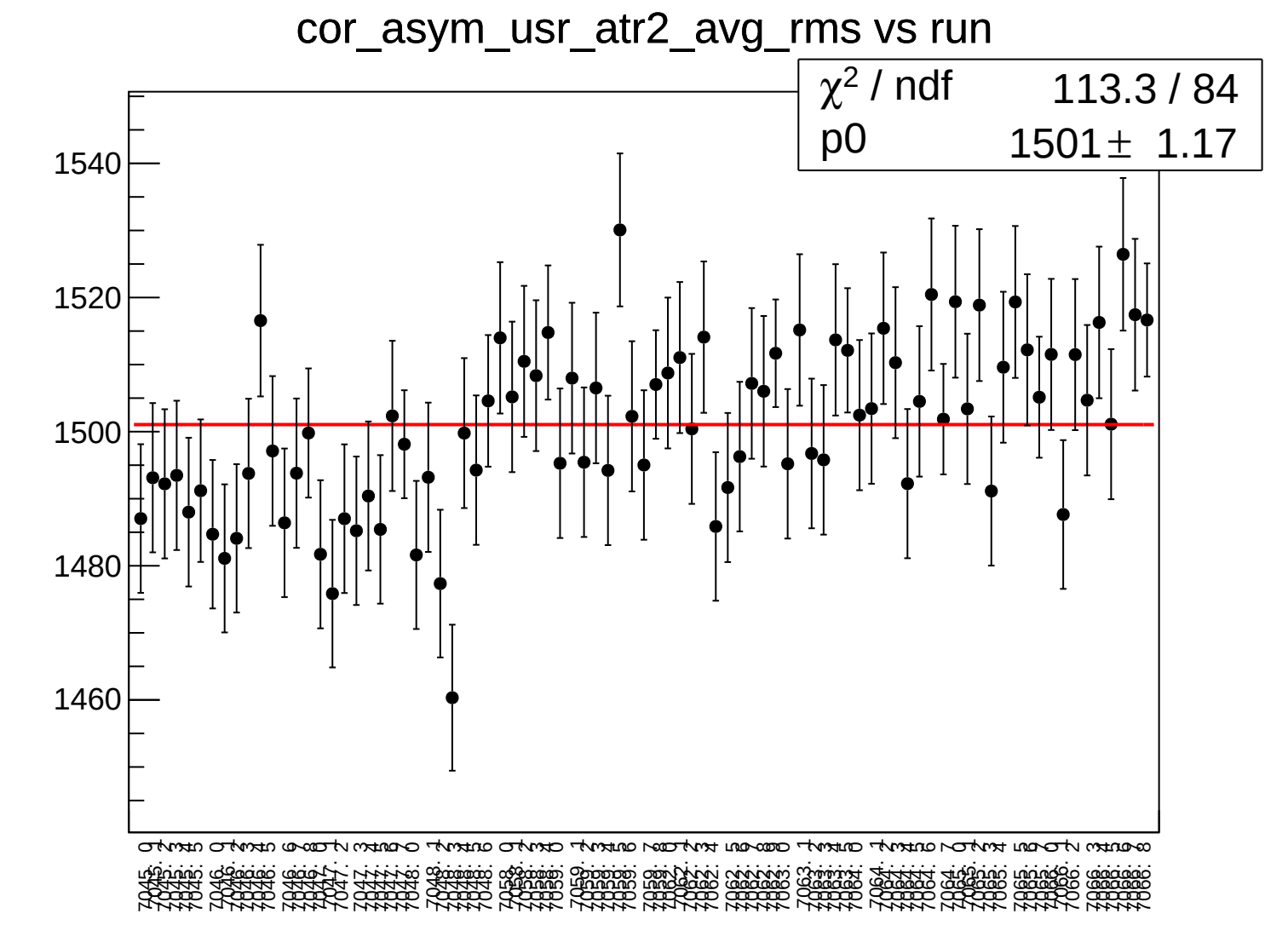

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.08 / 84
p0 −1969 ± 6249
pull
Entries 85
Mean 166.6
Std Dev 0

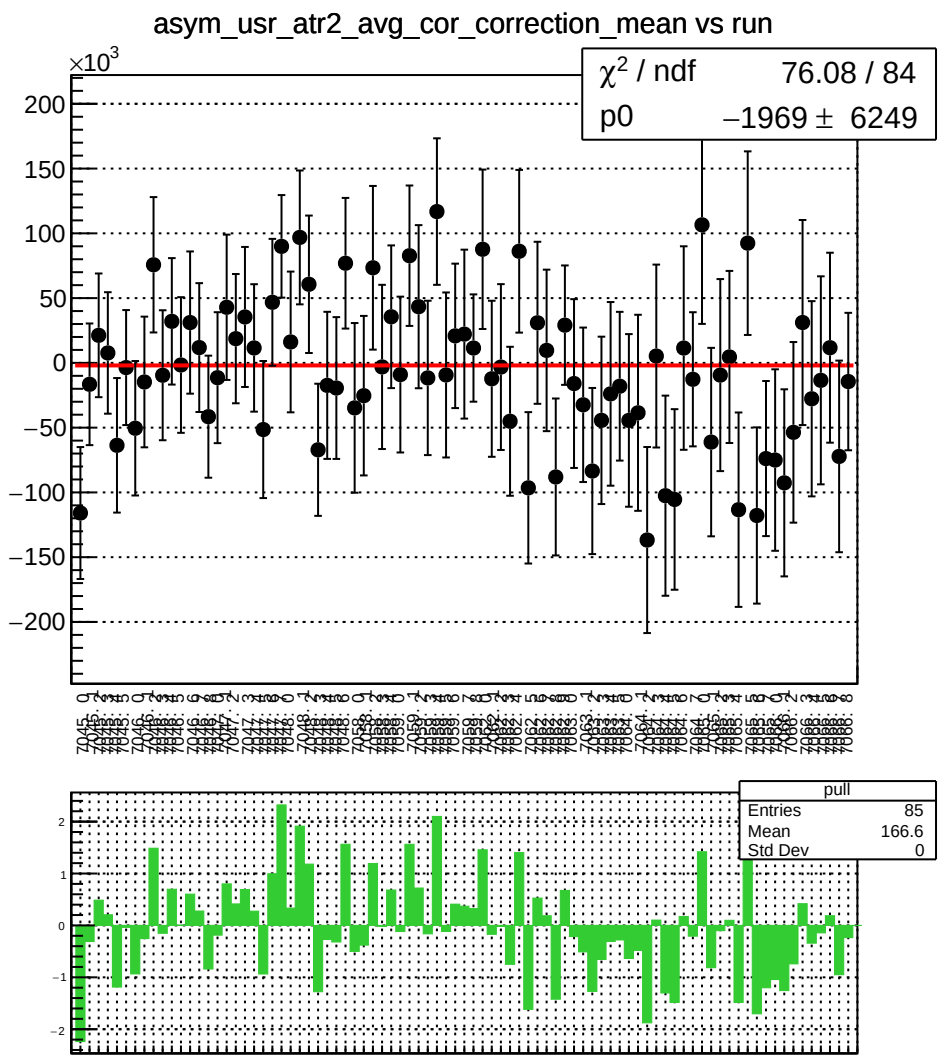

pull1D
Entries 85
Mean −0.04548
Std Dev 0.945

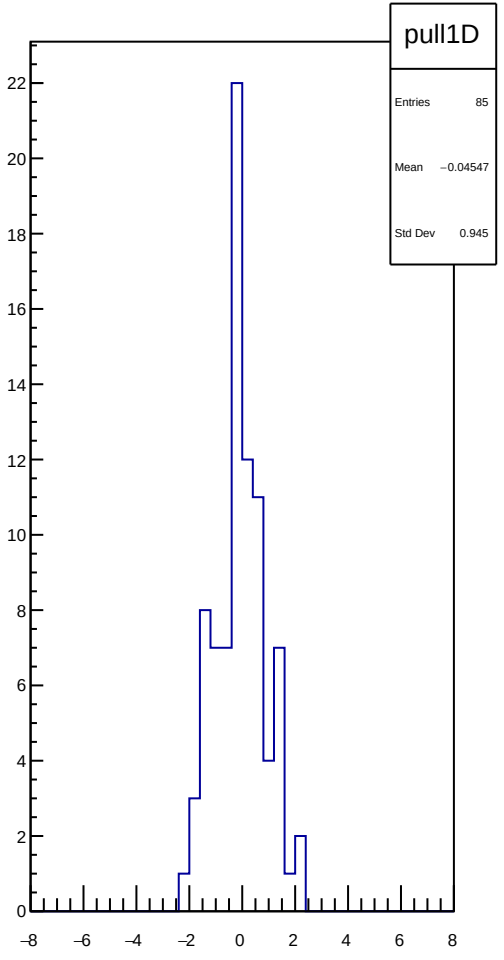

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3.509e+04 / 84
p0 5611 ± 4.419
8000
7500
7000
6500
6000
5500
5000
4500

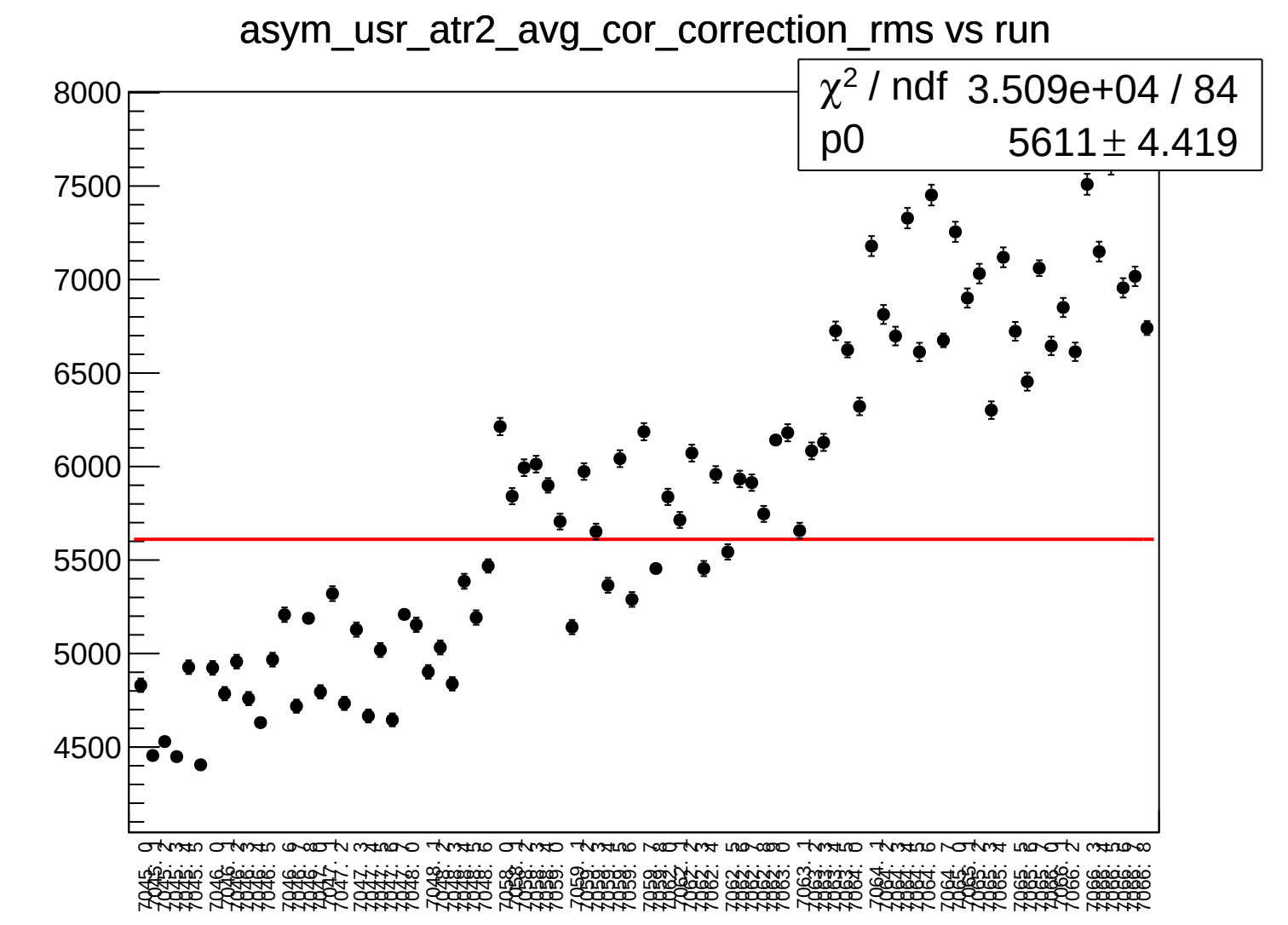

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.45 / 84
p0 1768 ± 1654
pull
Entries 85
Mean 421.1
Std Dev 0

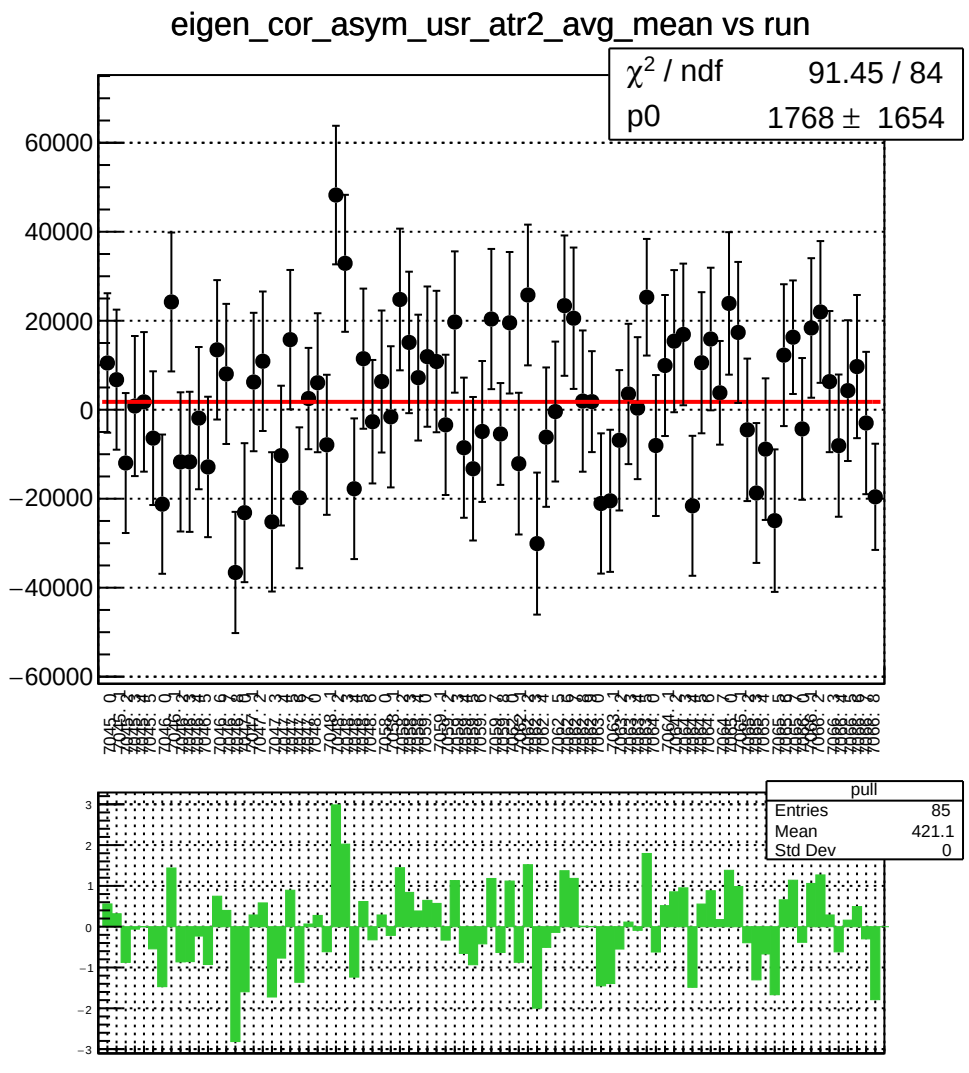

pull1D
Entries 85
Mean 0.005961
Std Dev 1.037

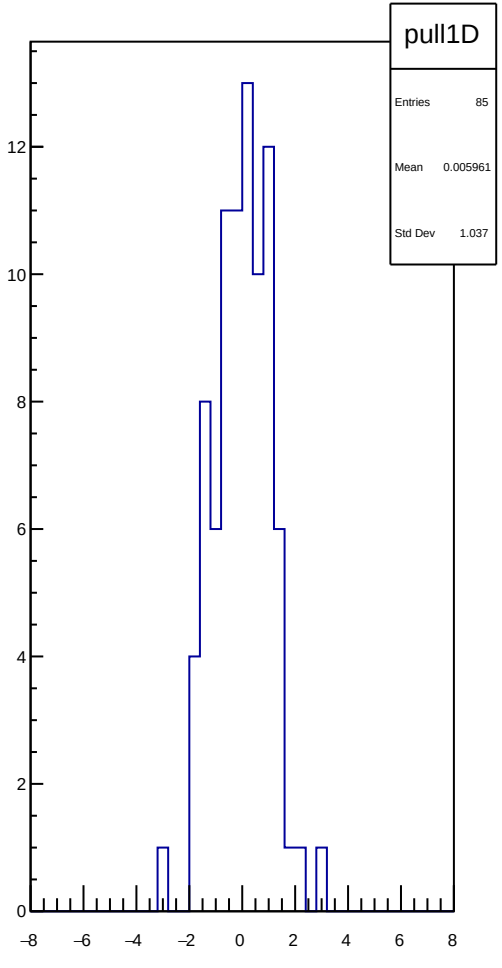

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 113.3 / 84
p0 1501 ± 1.17
1540
1520
1500
1480
1460

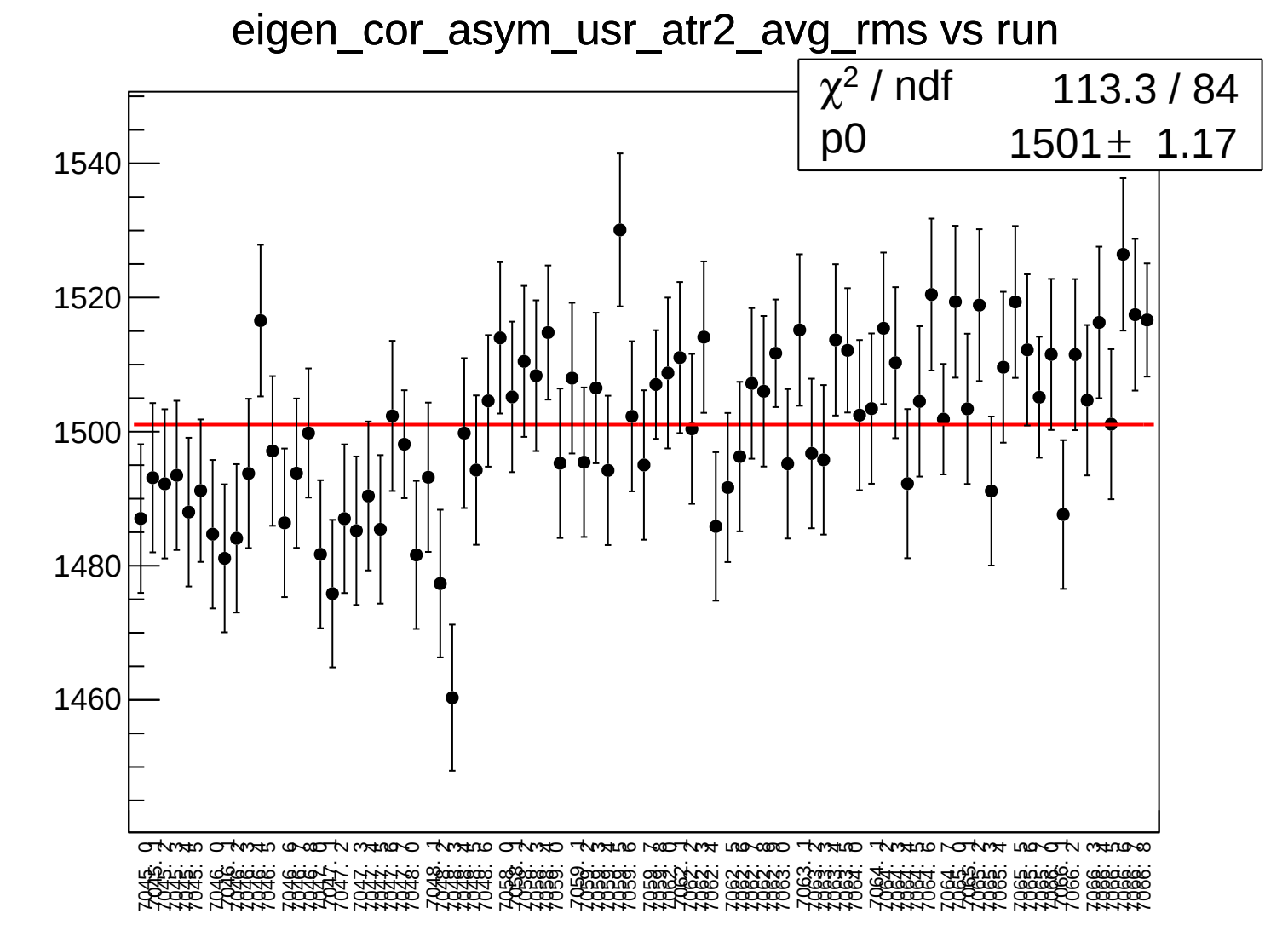

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.08 / 84
p0 −1969 ± 6249
pull
Entries 85
Mean 166.6
Std Dev 0

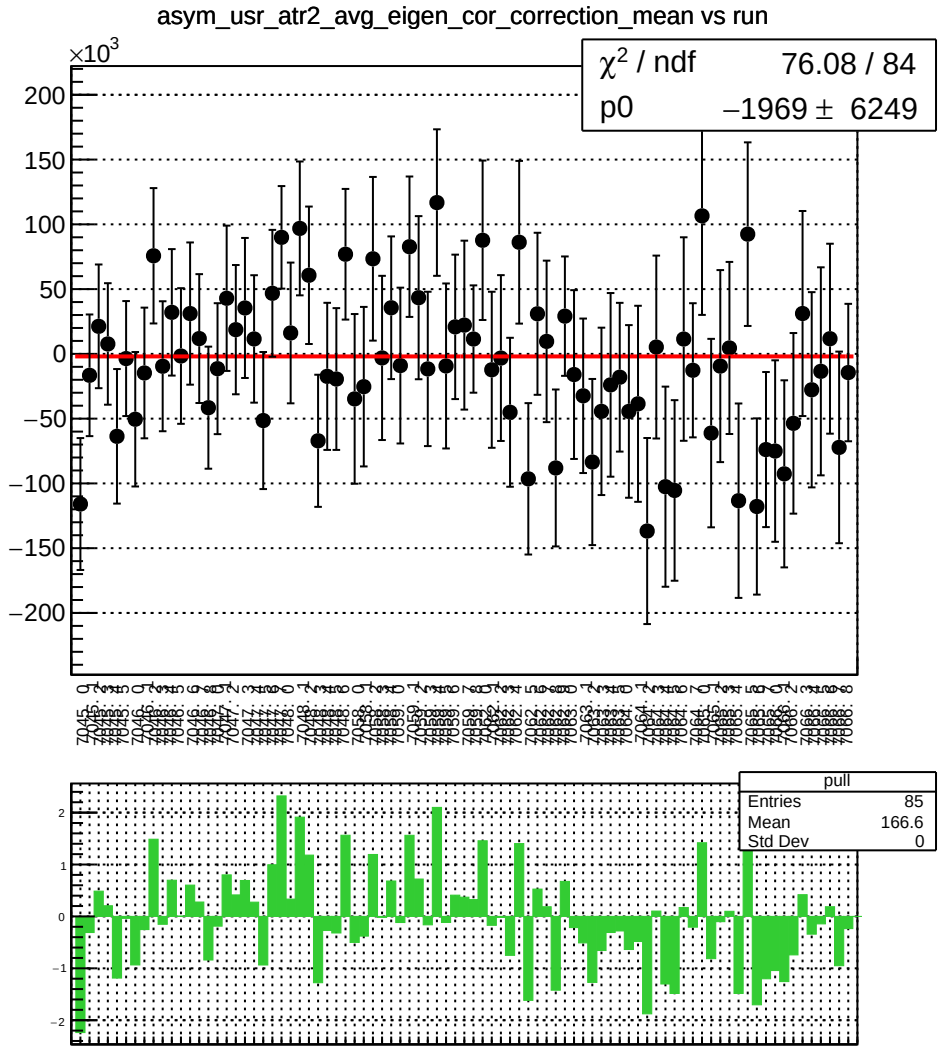

pull1D
Entries 85
Mean −0.04547
Std Dev 0.945

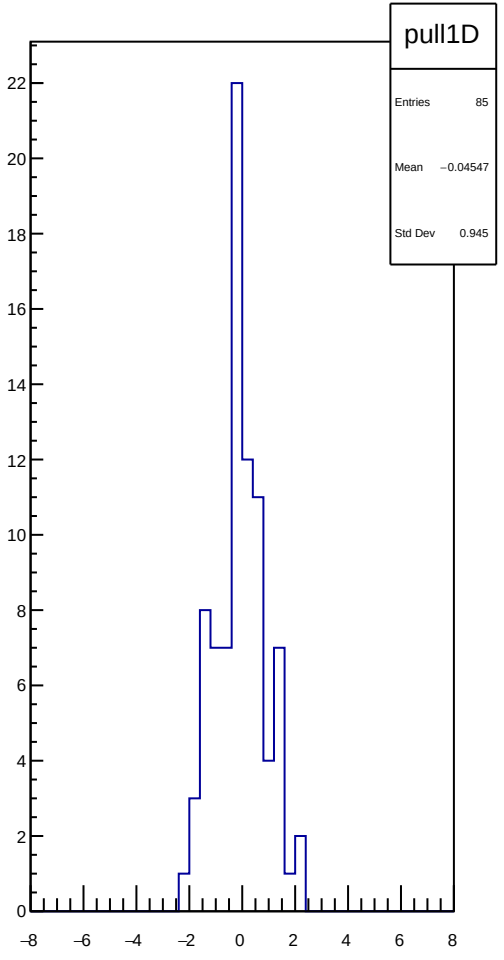

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3.509e+04 / 84
p0 5611 ± 4.419
8000
7500
7000
6500
6000
5500
5000
4500

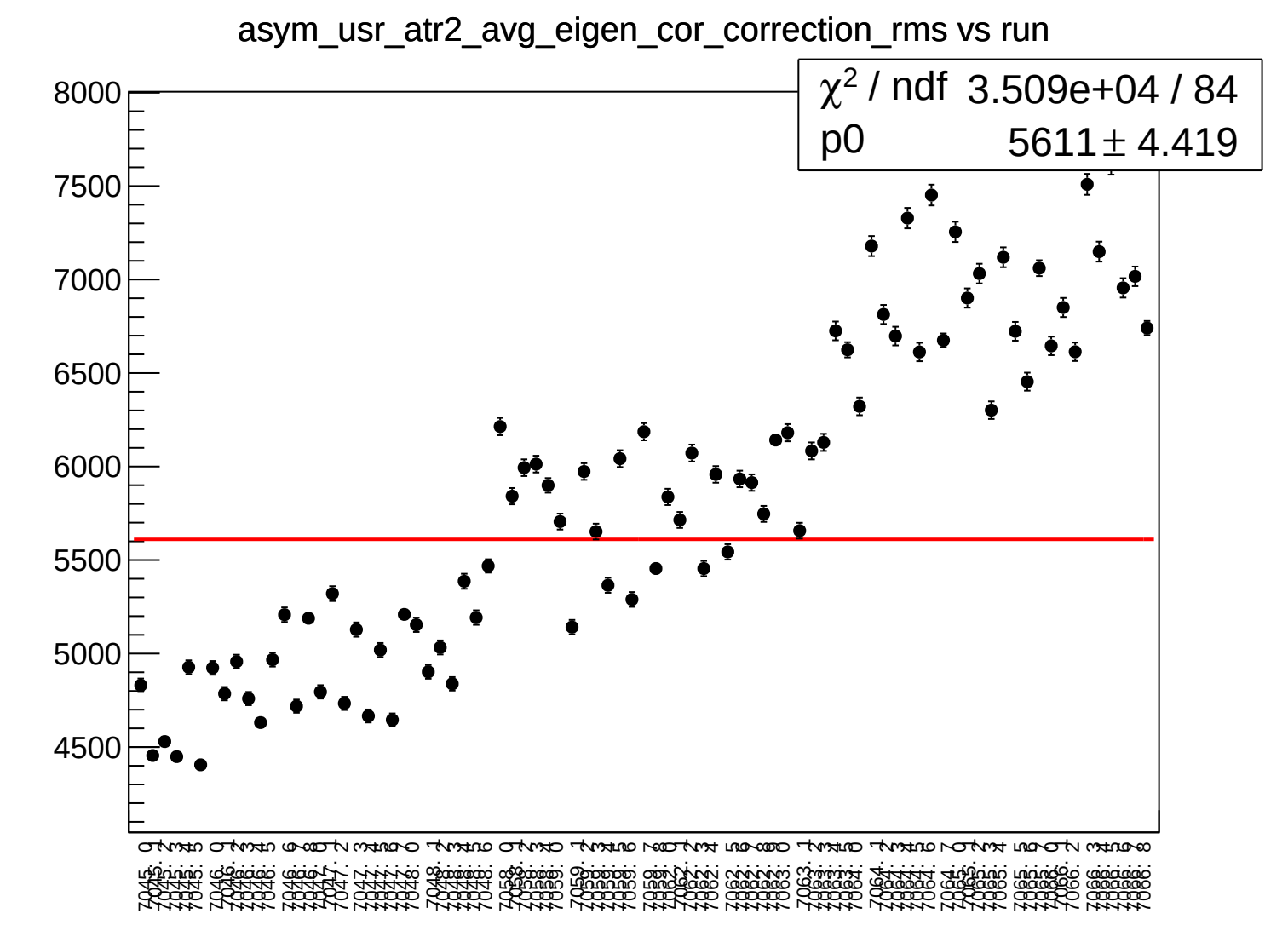

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.45 / 84
p0 1768 ± 1654
pull
Entries 85
Mean 421.1
Std Dev 0

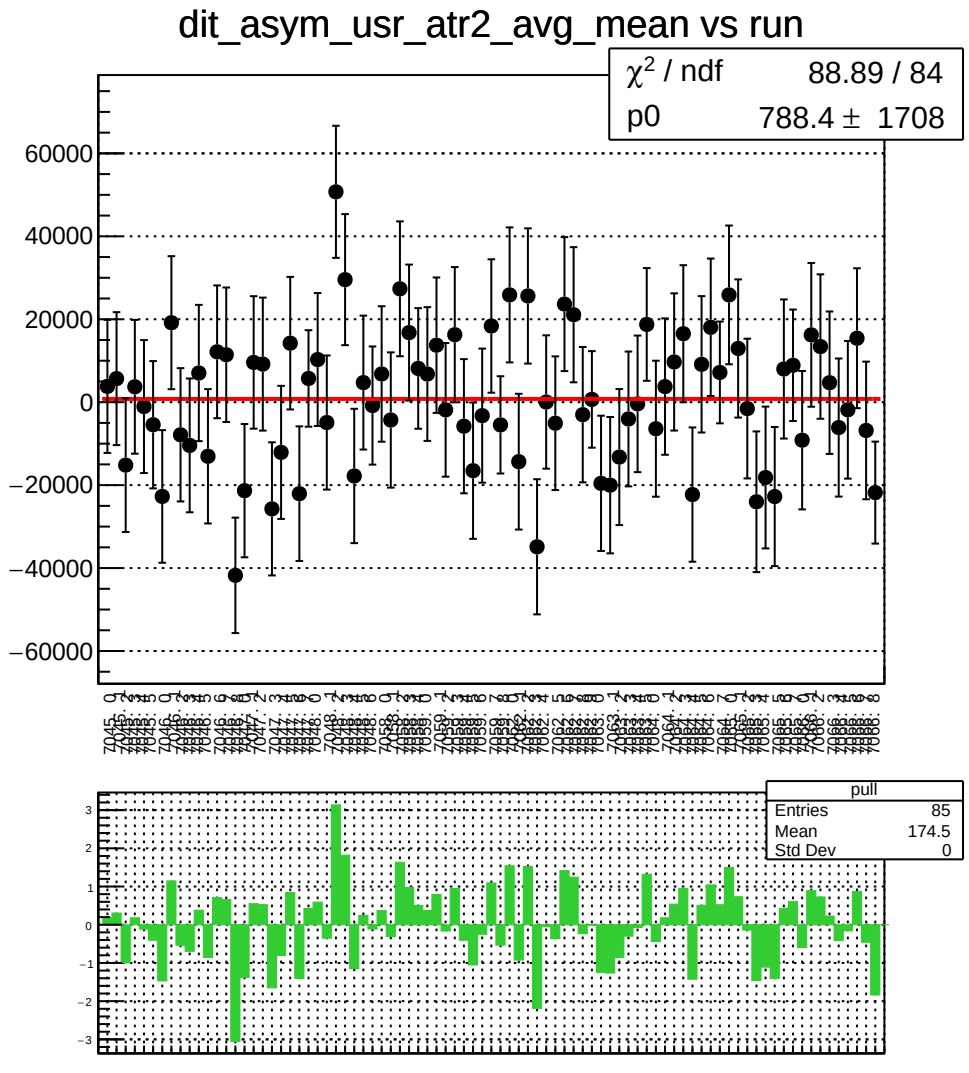

pull1D
Entries 85
Mean 0.005961
Std Dev 1.037

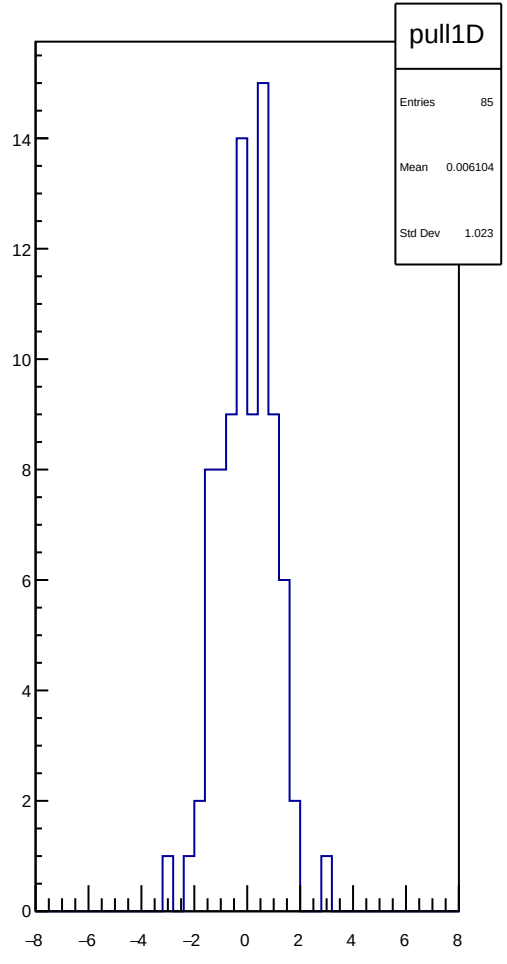

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 113.3 / 84
p0 1501 ± 1.17
1540
1520
1500
1480
1460

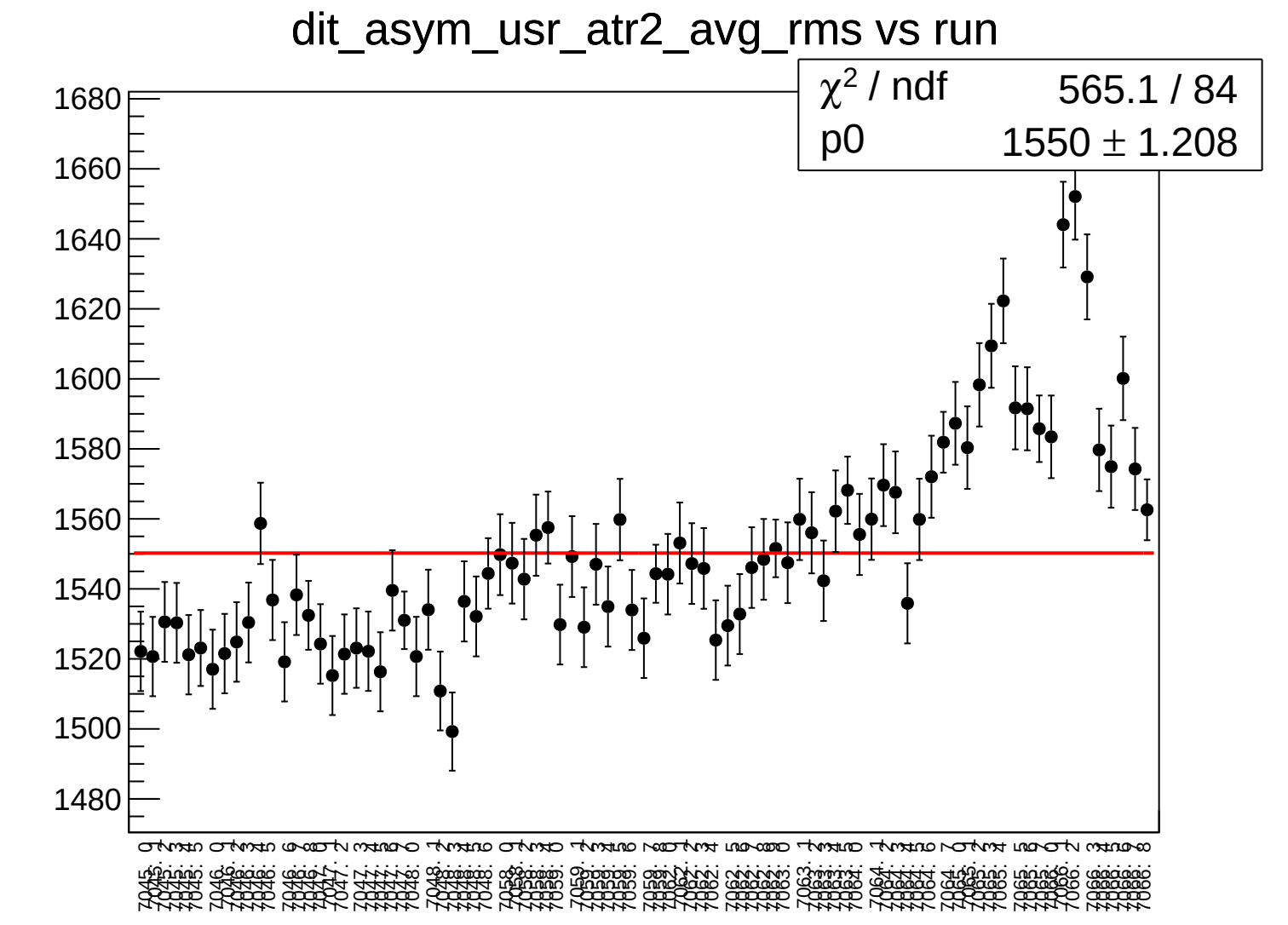

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.08 / 84
p0 −1969 ± 6249
pull
Entries 85
Mean 166.6
Std Dev 0

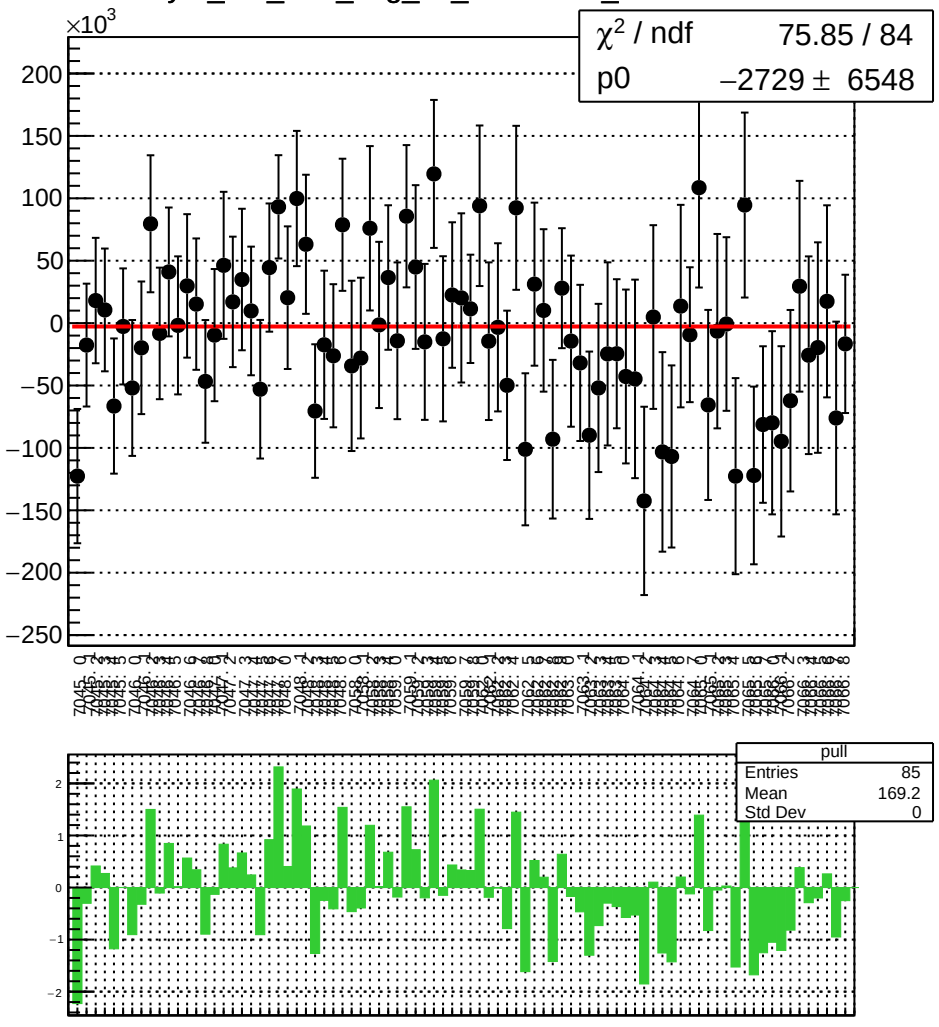

pull1D
Entries 85
Mean −0.04547
Std Dev 0.945

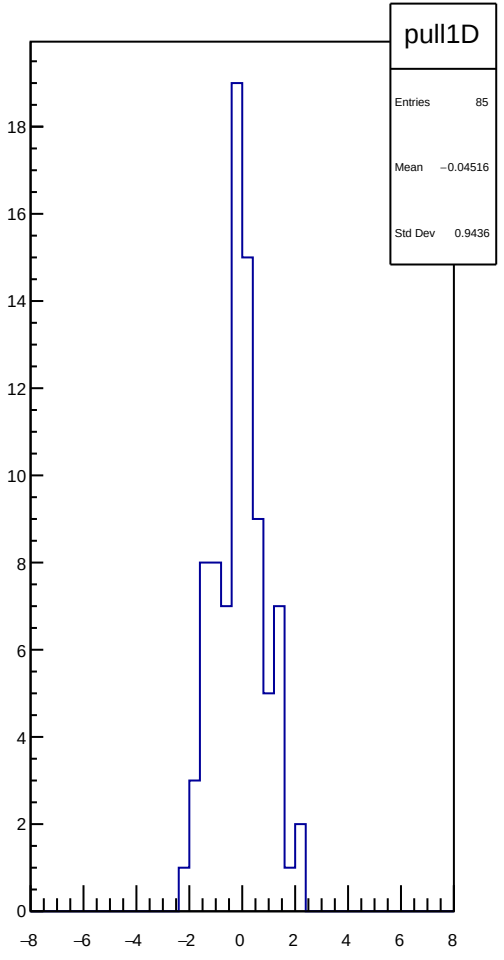

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.509e+04 / 84
p0 5611 ± 4.419
8000
7500
7000
6500
6000
5500
5000
4500

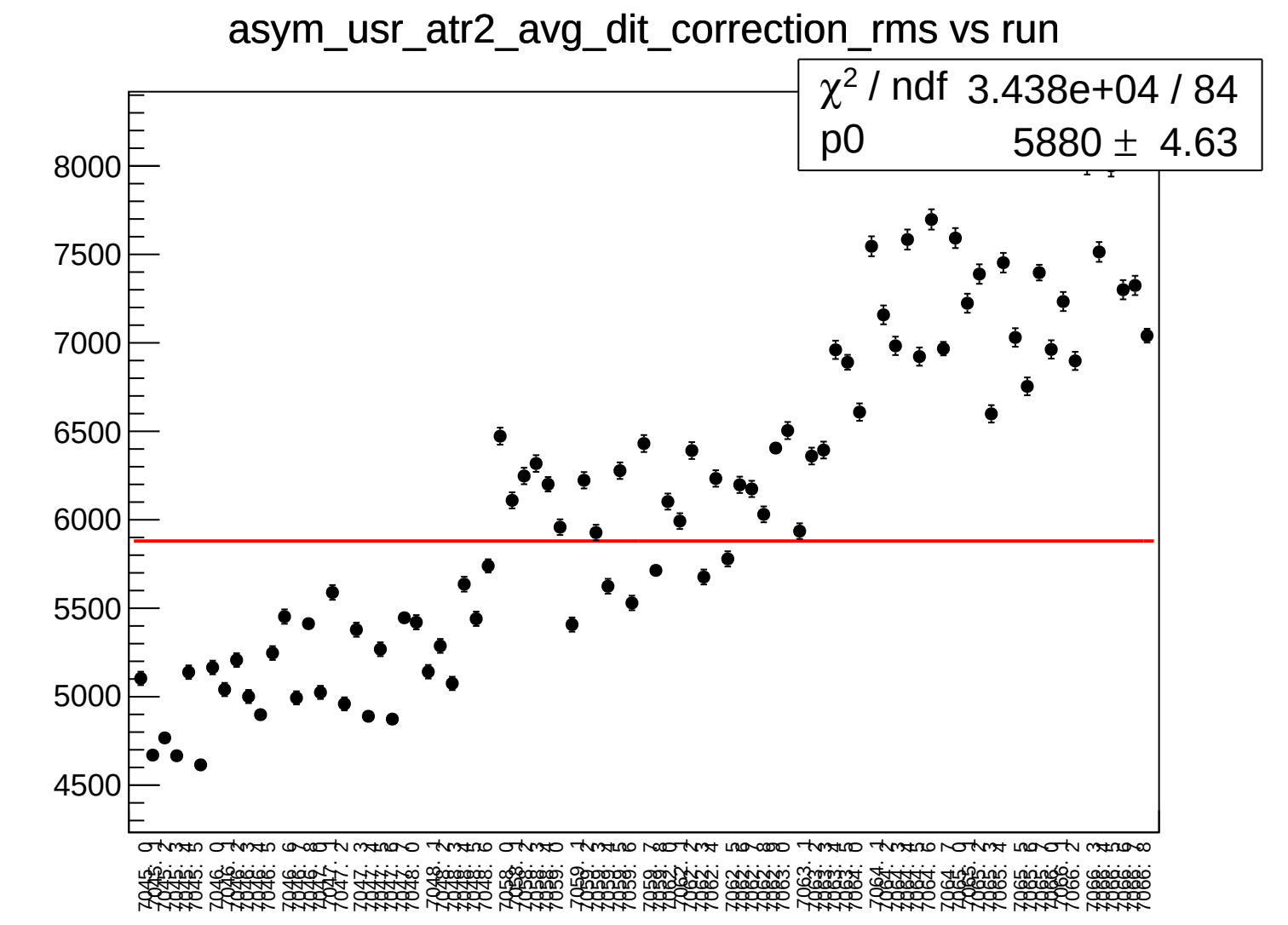

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 88.89 / 84
p0 788.4 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 174.5
Std Dev 0
3
2
1
0
−1
−2
−3

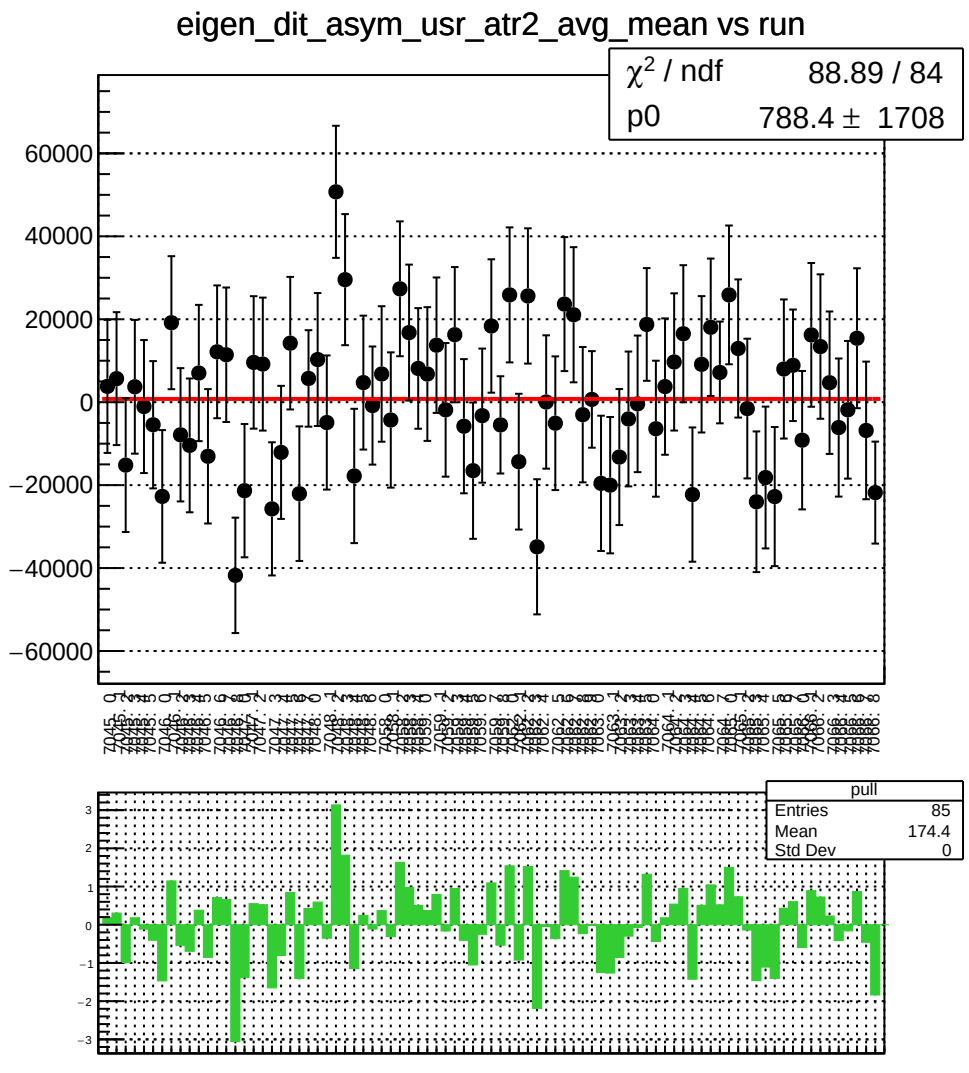

pull1D
Entries 85
Mean 0.006104
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

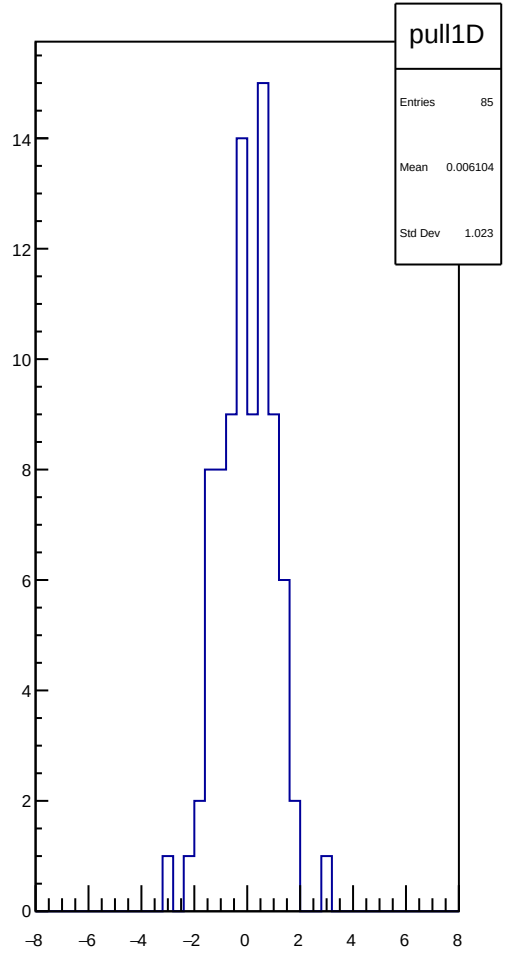

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 565.1 / 84
p0 1550 ± 1.208
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

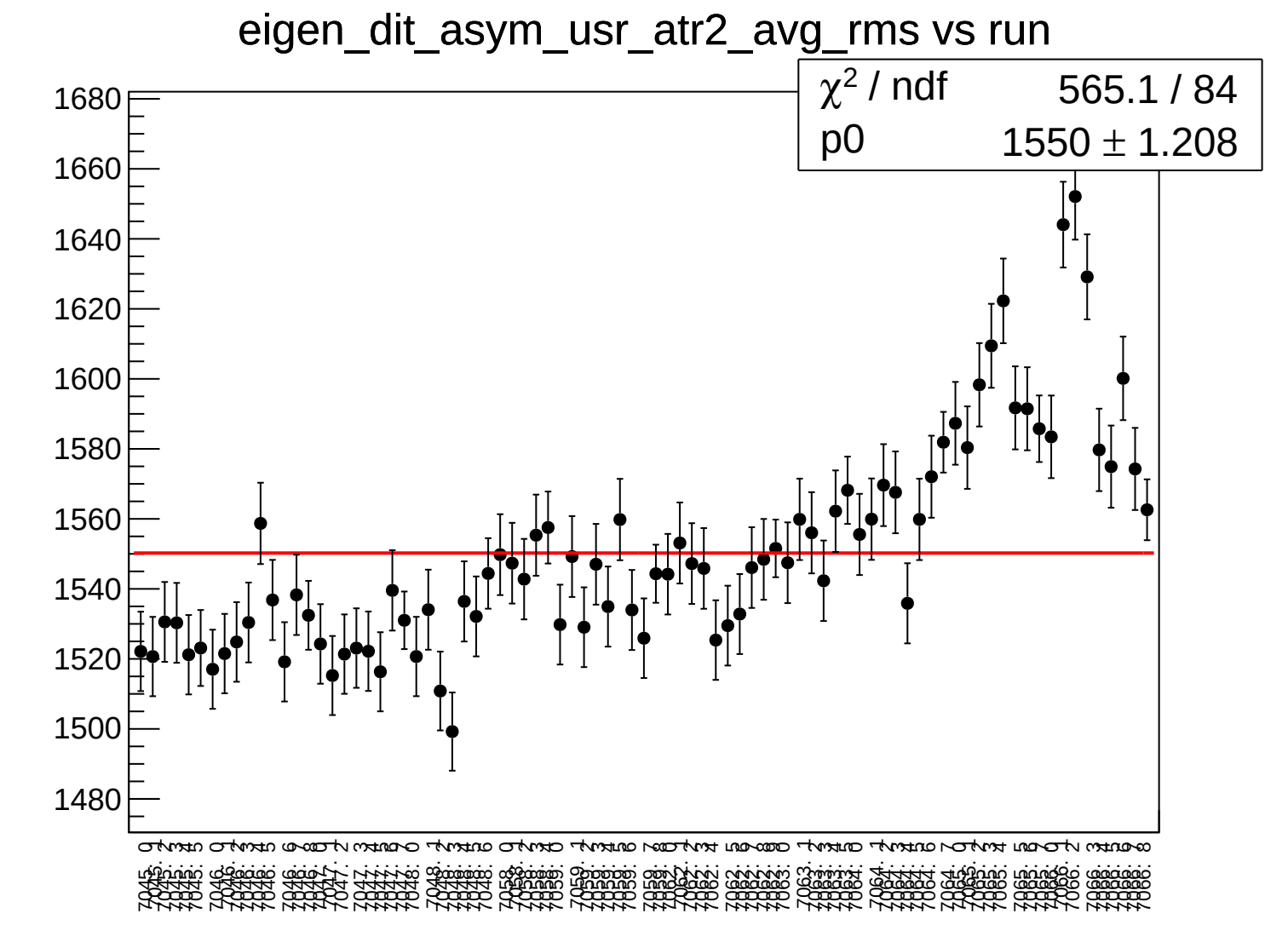

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 75.85 / 84
p0 −2729 ± 6548
pull
Entries 85
Mean 169.2
Std Dev 0

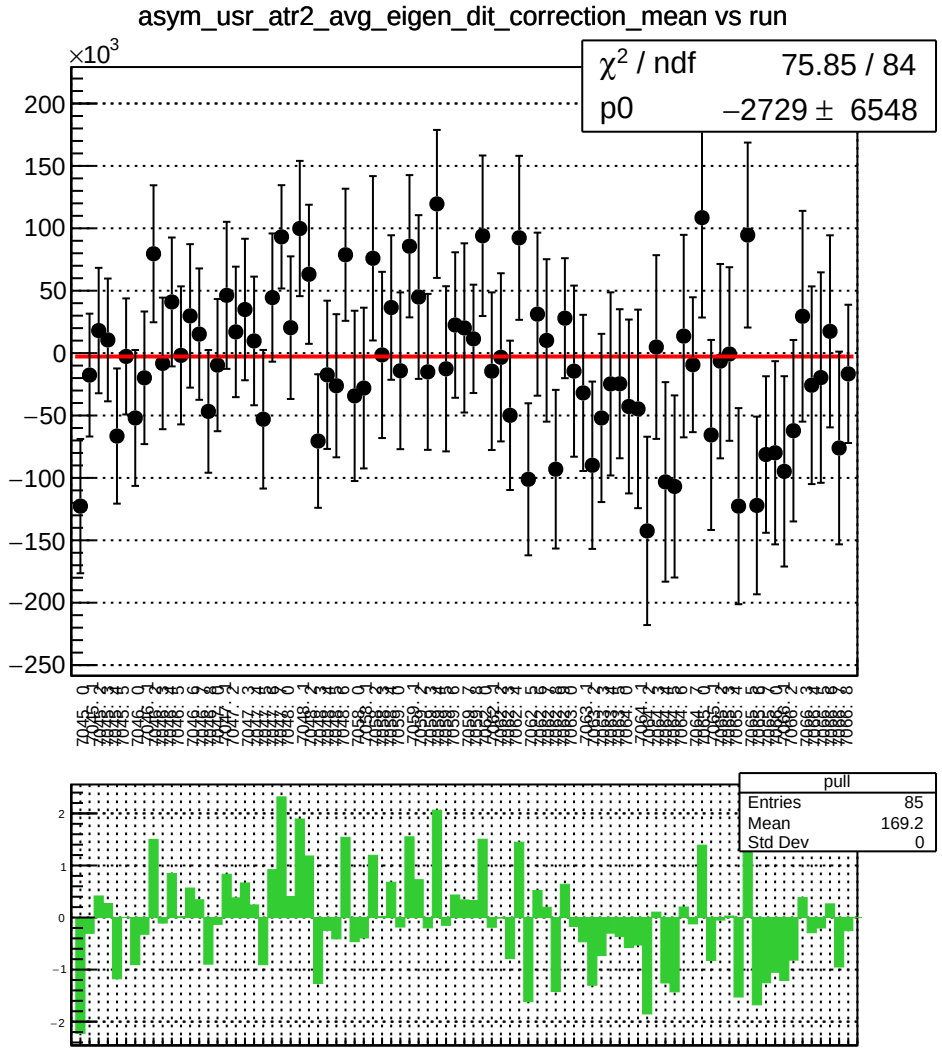

pull1D
Entries 85
Mean −0.04516
Std Dev 0.9436

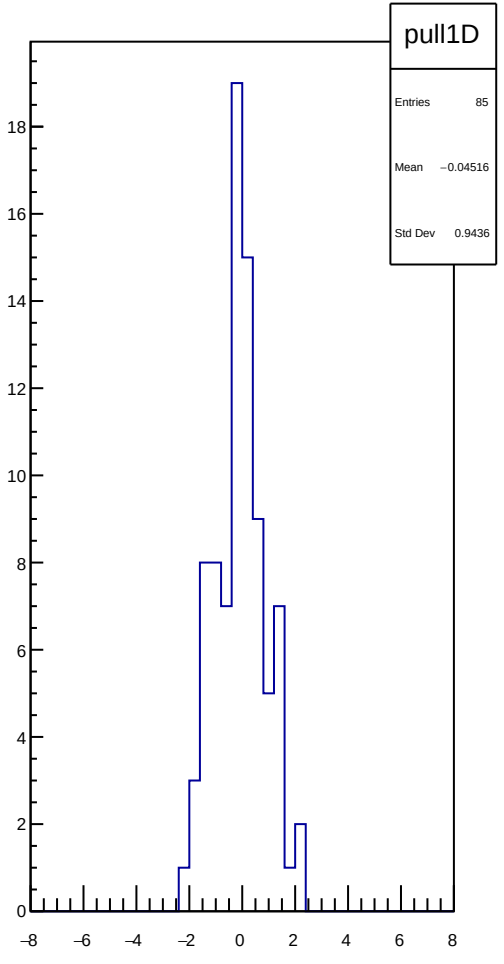

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3.438e+04 / 84
p0 5880 ± 4.63
8000
7500
7000
6500
6000
5500
5000
4500

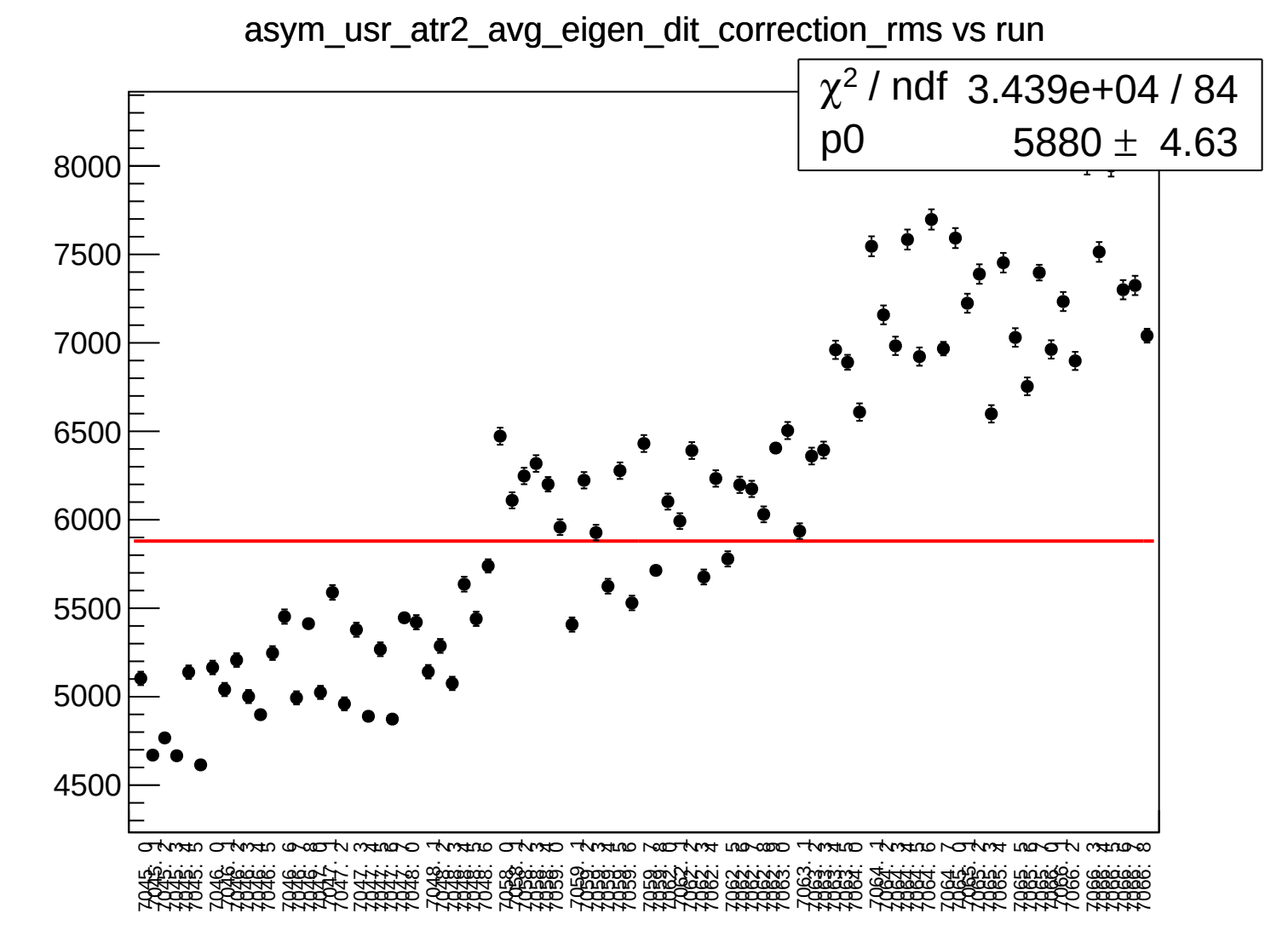

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 88.89 / 84
p0 788.4 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 174.4
Std Dev 0
3
2
1
0
−1
−2
−3

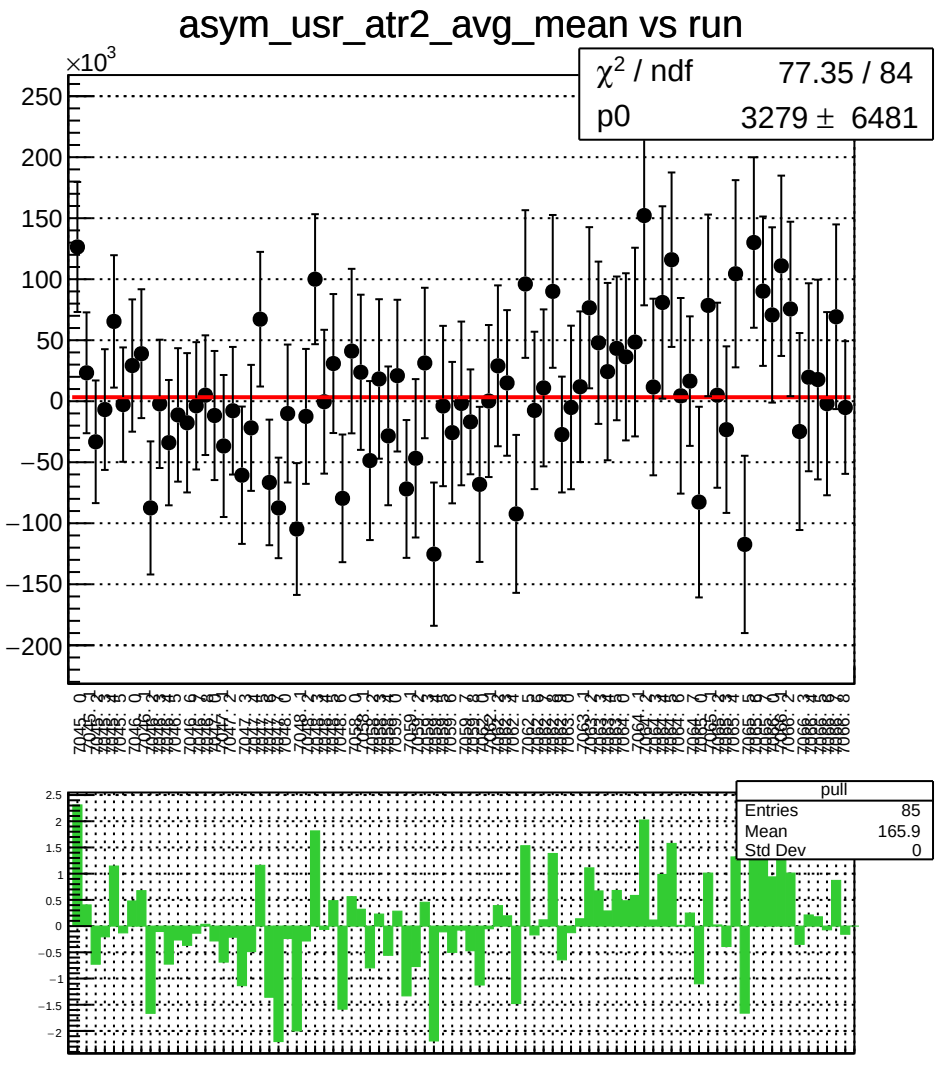

pull1D
Entries 85
Mean 0.006104
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

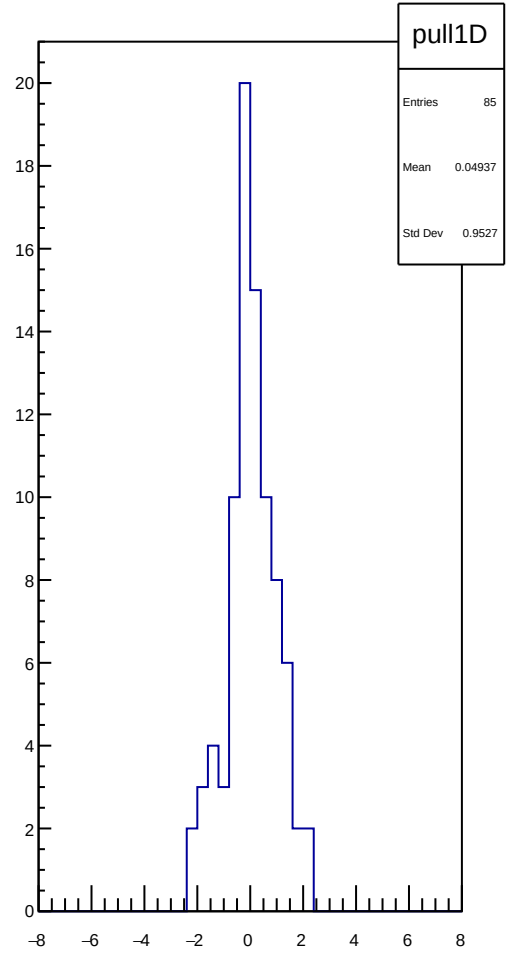

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 565.1 / 84
p0 1550 ± 1.208
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

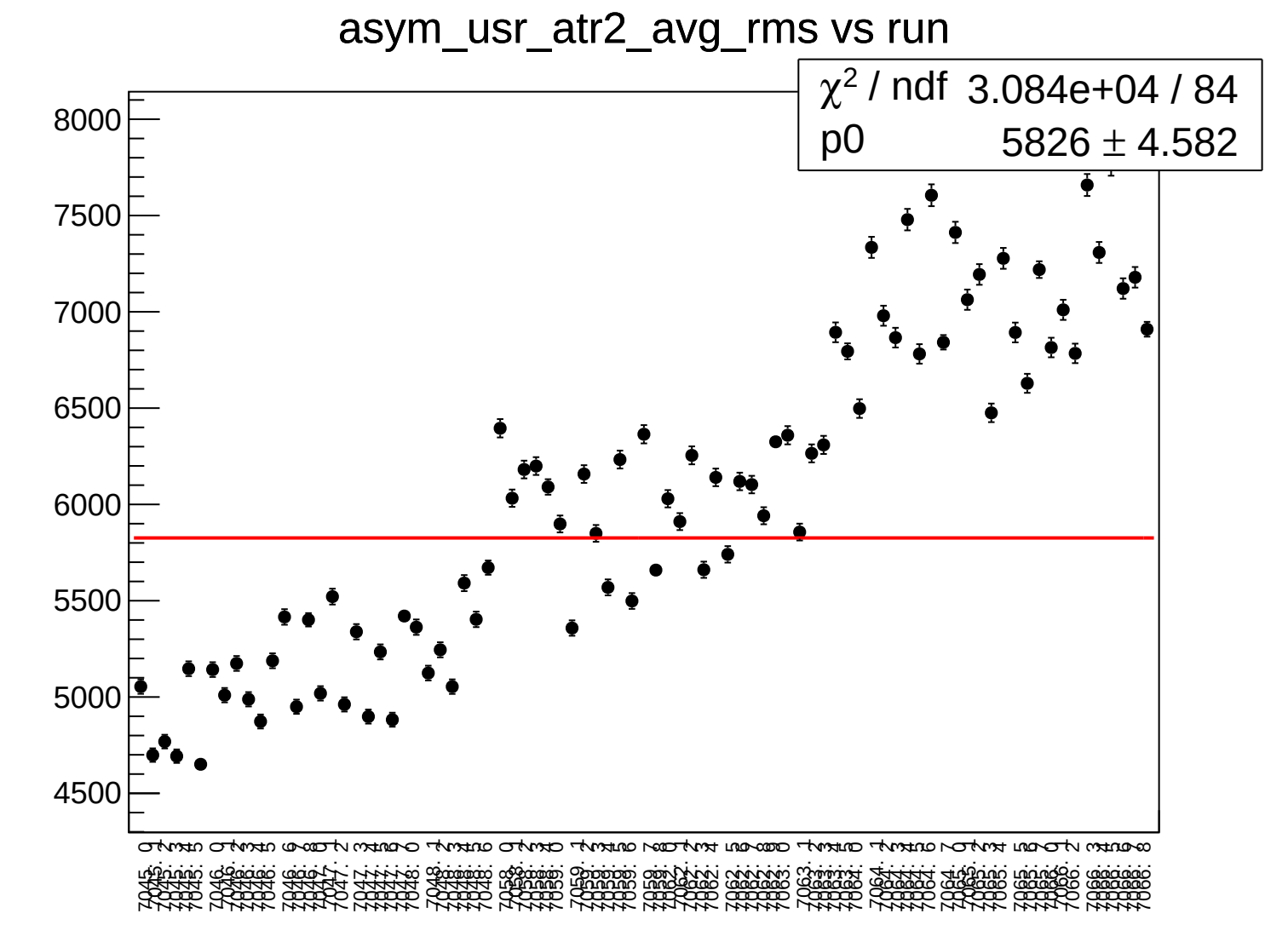

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.85 / 84
p0 −2729 ± 6548
pull
Entries 85
Mean 169.2
Std Dev 0

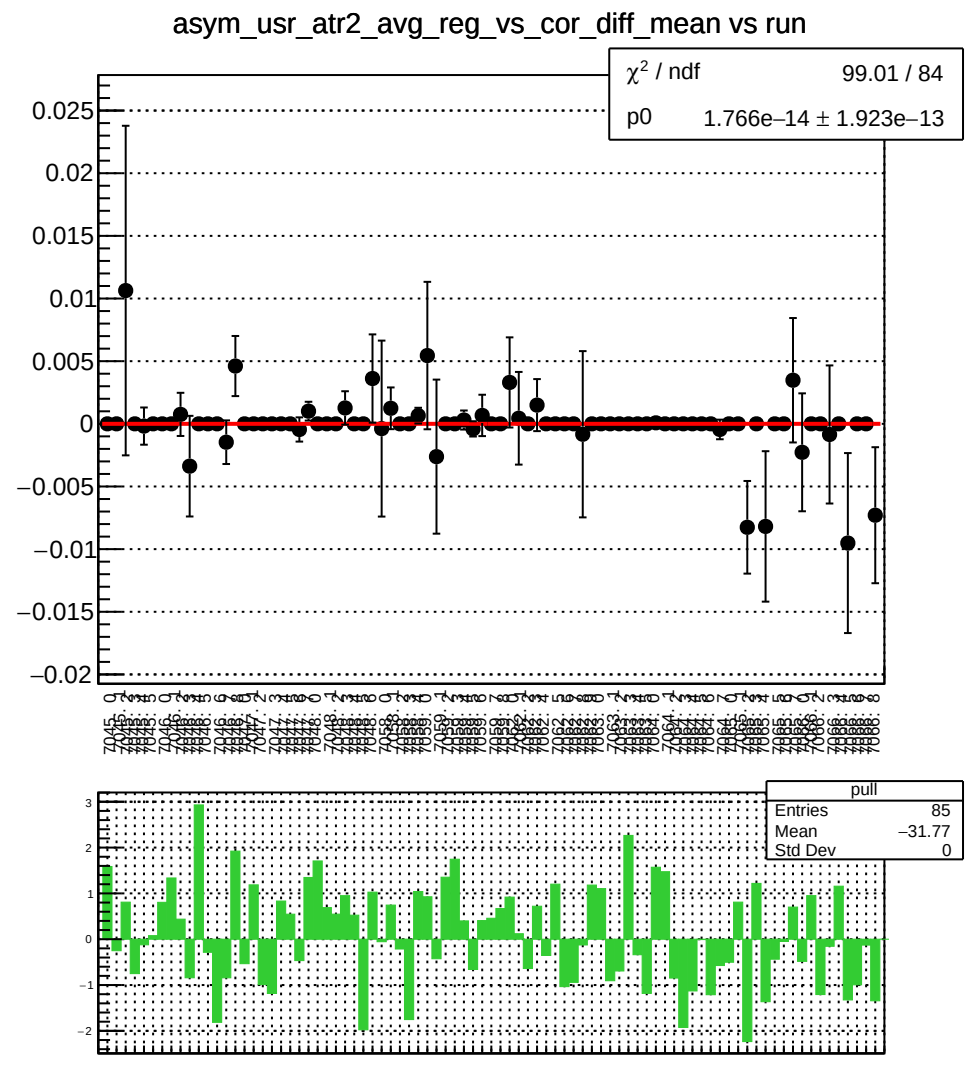

pull1D
Entries 85
Mean −0.04516
Std Dev 0.9436

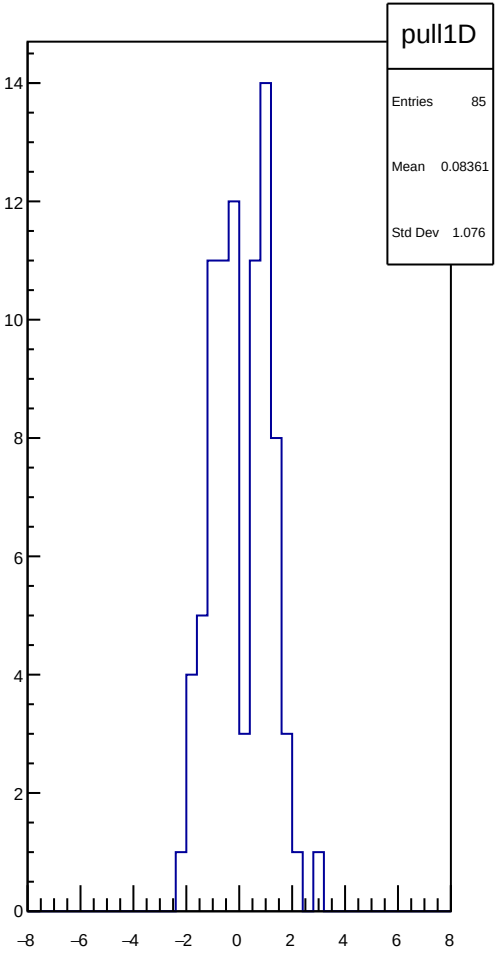

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.439e+04 / 84
p0 5880 ± 4.63
8000
7500
7000
6500
6000
5500
5000
4500

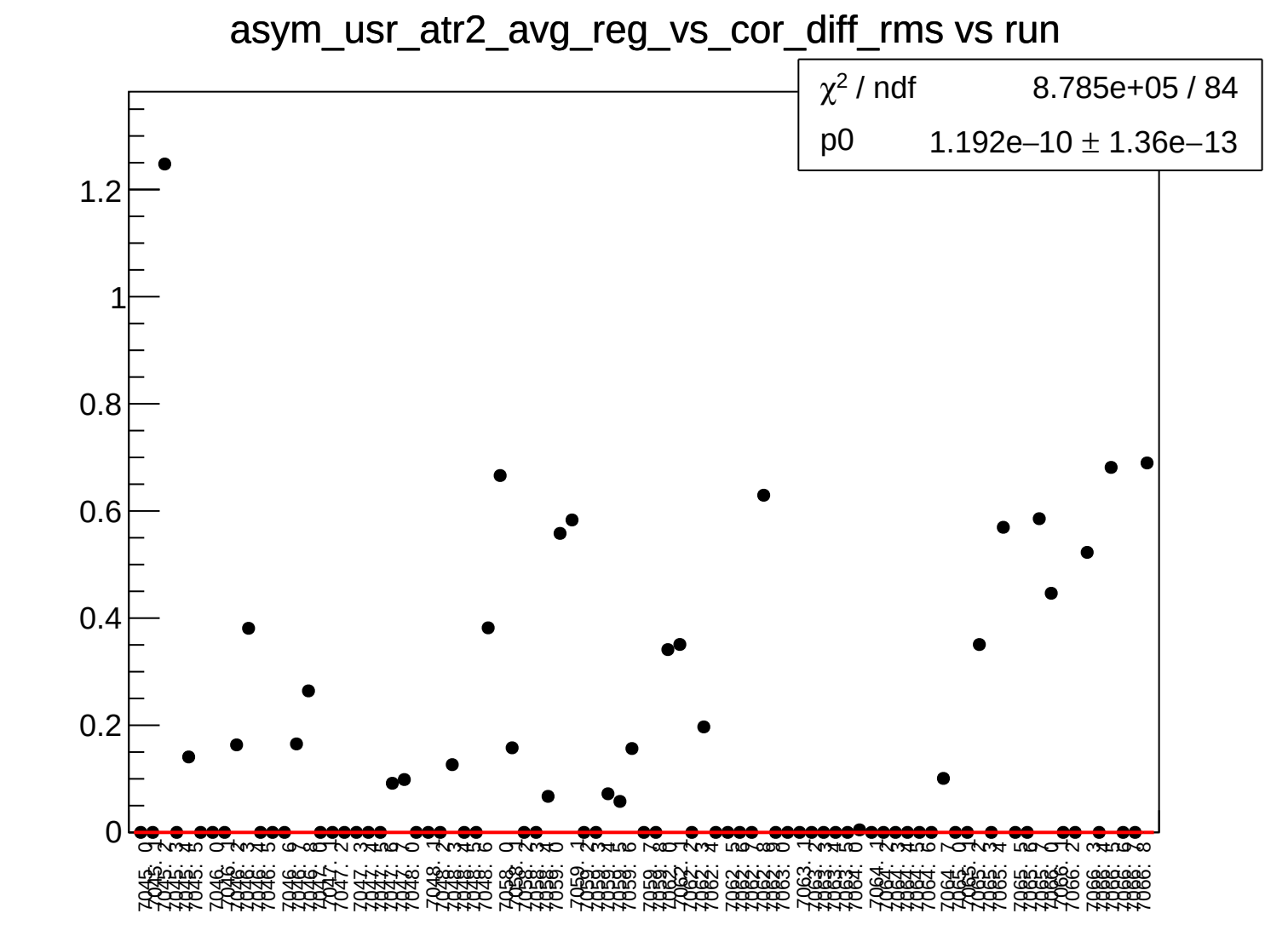

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 77.35 / 84
p0 3279 ± 6481
pull
Entries 85
Mean 165.9
Std Dev 0

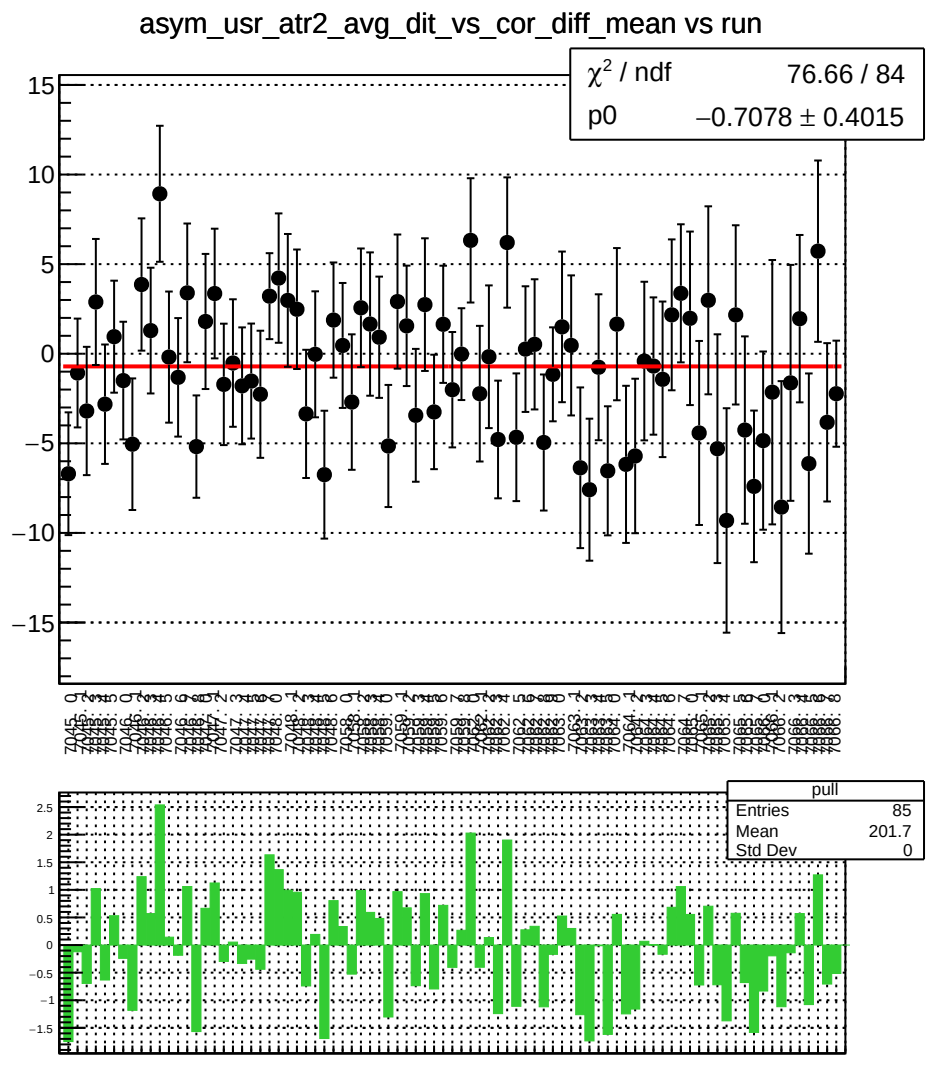

pull1D
Entries 85
Mean 0.04937
Std Dev 0.9527

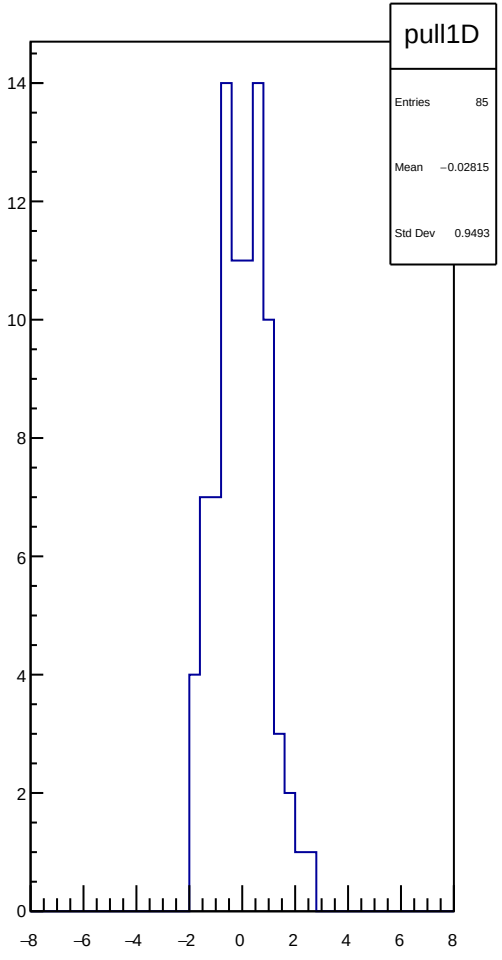

asym_usr_atr2_avg_rms vs run
χ² / ndf 3.084e+04 / 84
p0 5826 ± 4.582
8000
7500
7000
6500
6000
5500
5000
4500

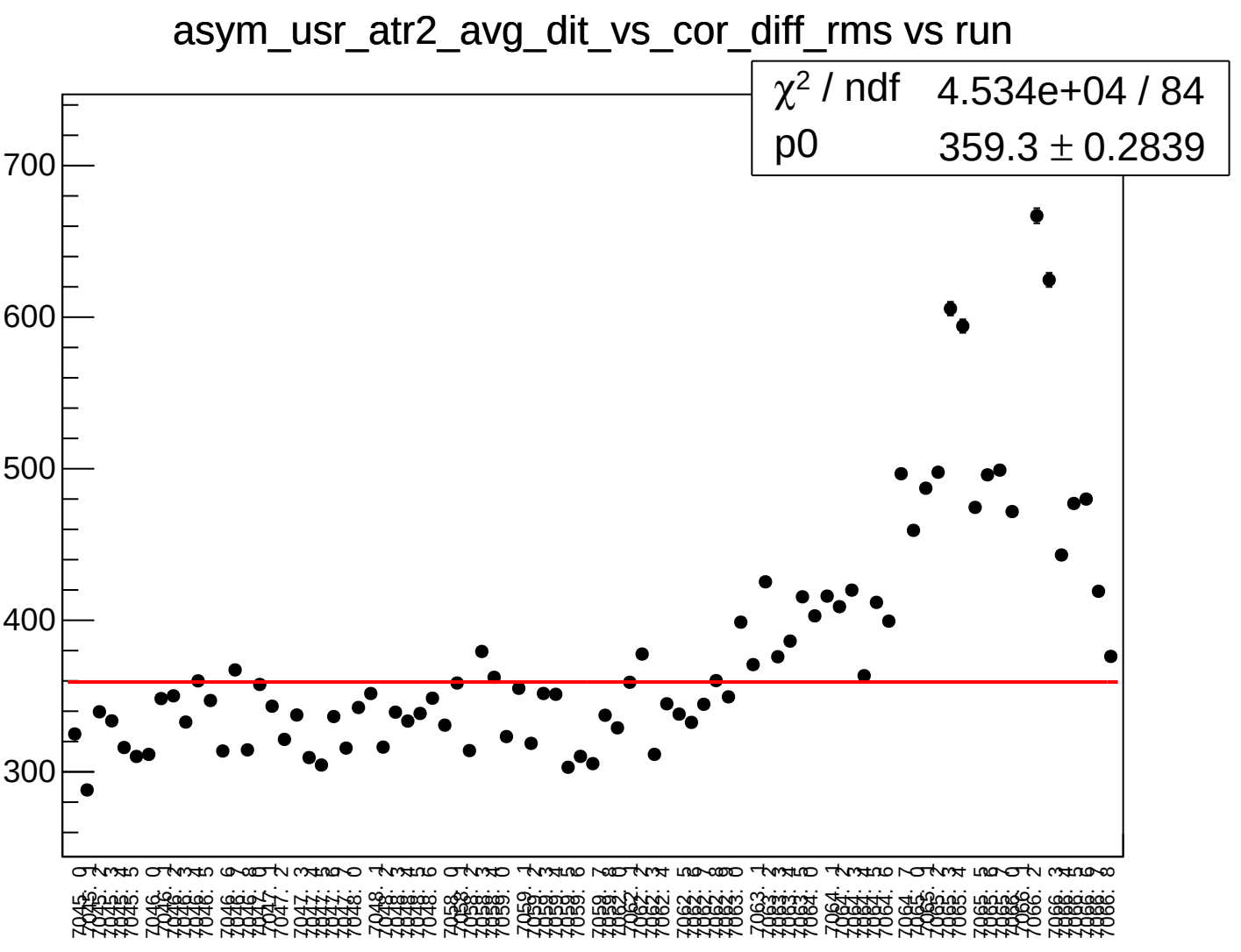

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.01 / 84
p0 1.766e−14 ± 1.923e−13
pull
Entries 85
Mean −31.77
Std Dev 0

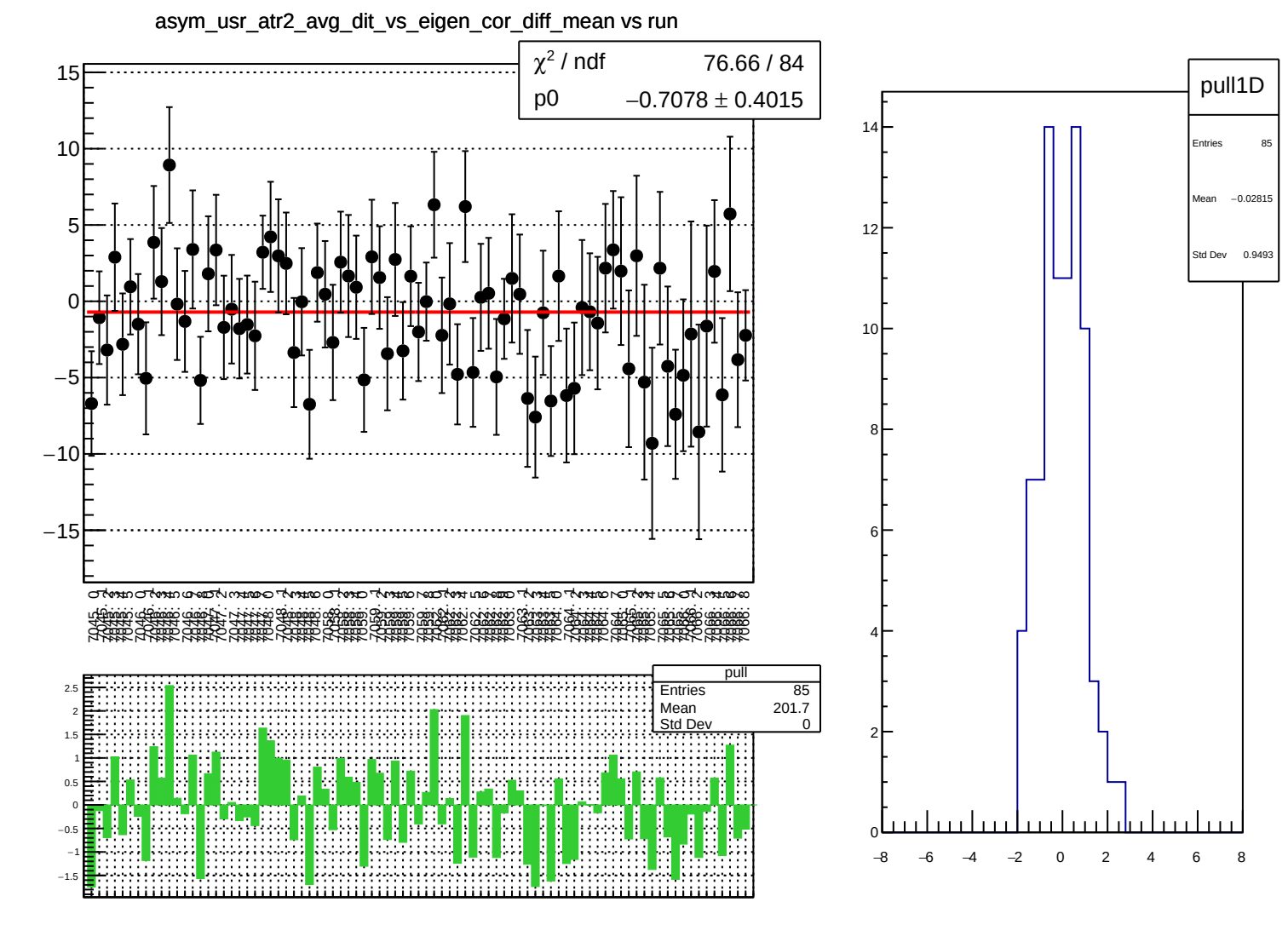

pull1D
Entries 85
Mean 0.08361
Std Dev 1.076

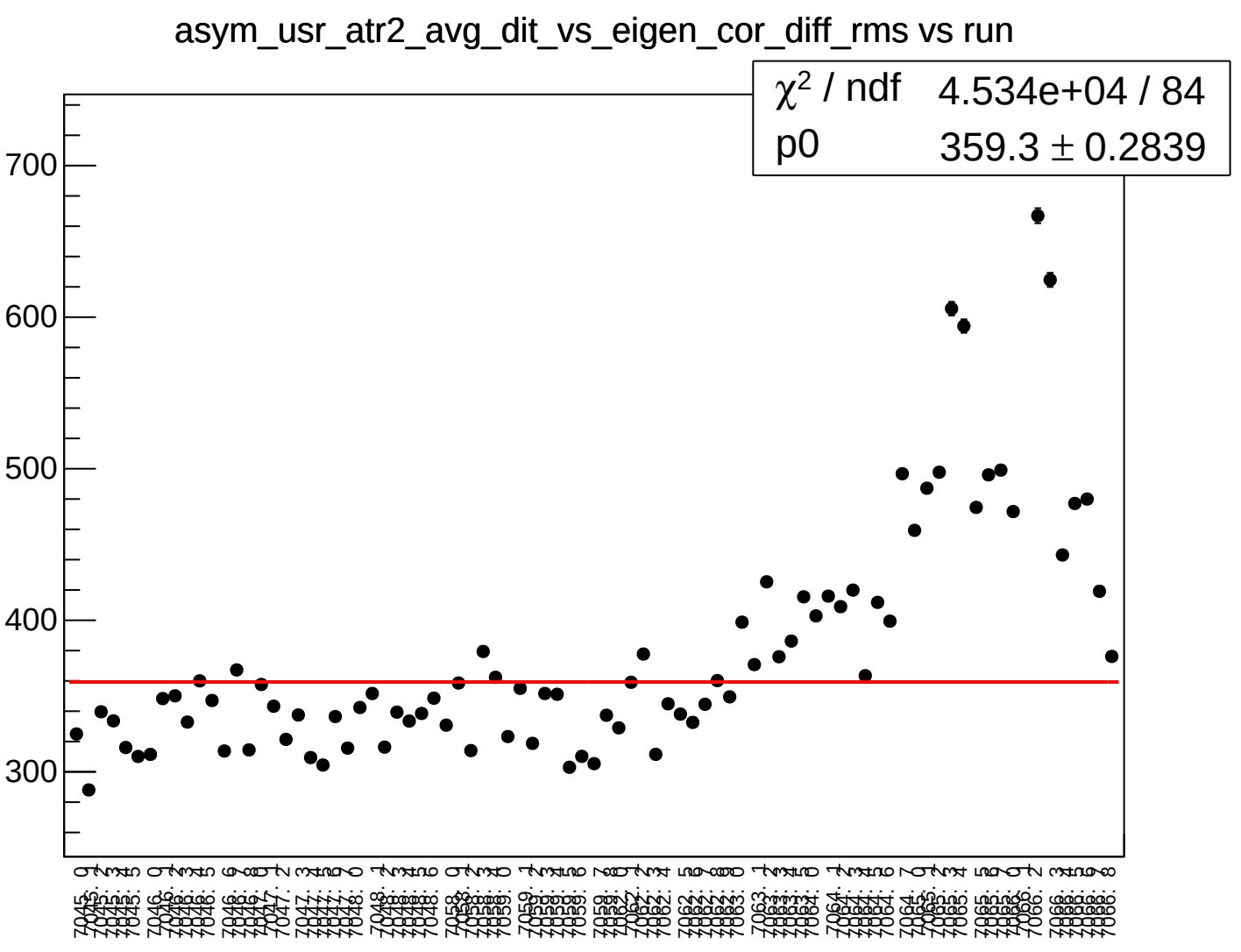

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.785e+05 / 84
p0 1.192e−10 ± 1.36e−13
1.2
1
0.8
0.6
0.4
0.2
0

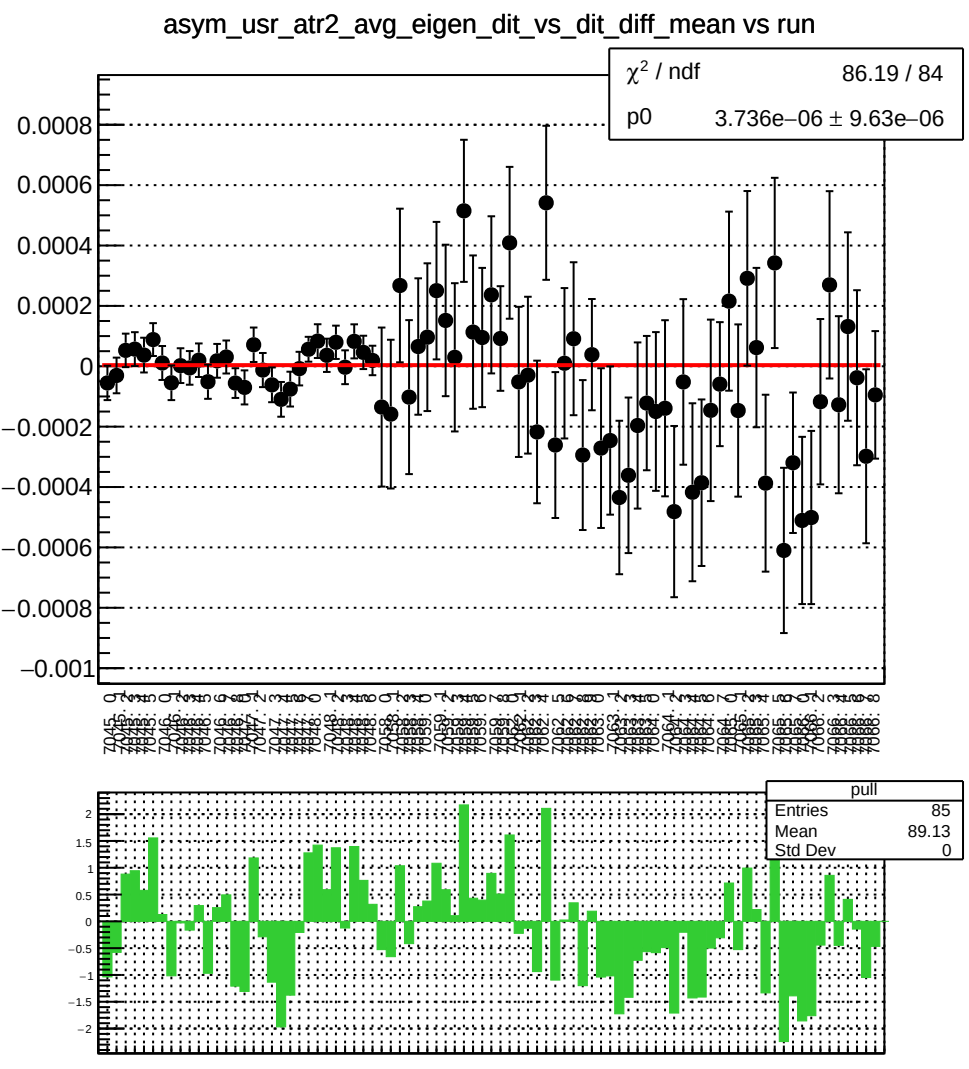

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.66 / 84
p0 −0.7078 ± 0.4015
pull
Entries 85
Mean 201.7
Std Dev 0

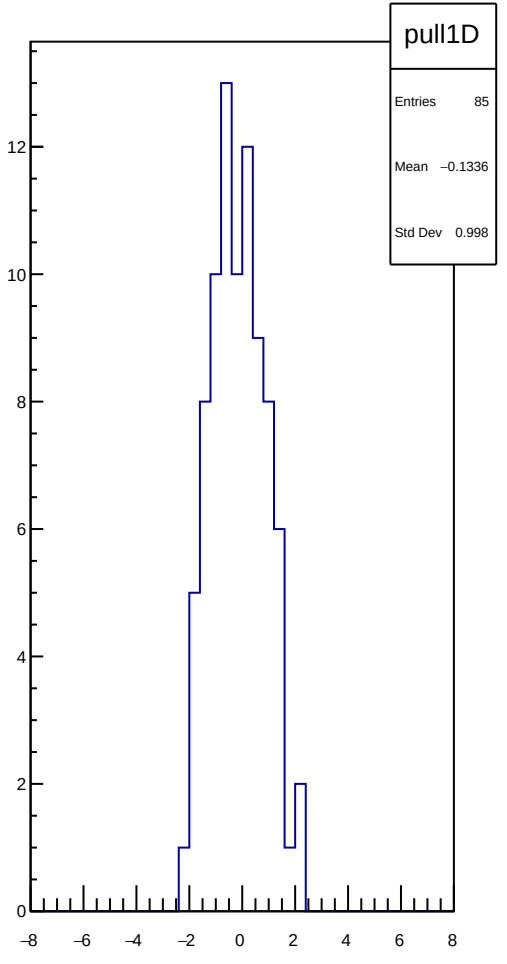

pull1D
Entries 85
Mean −0.02815
Std Dev 0.9493

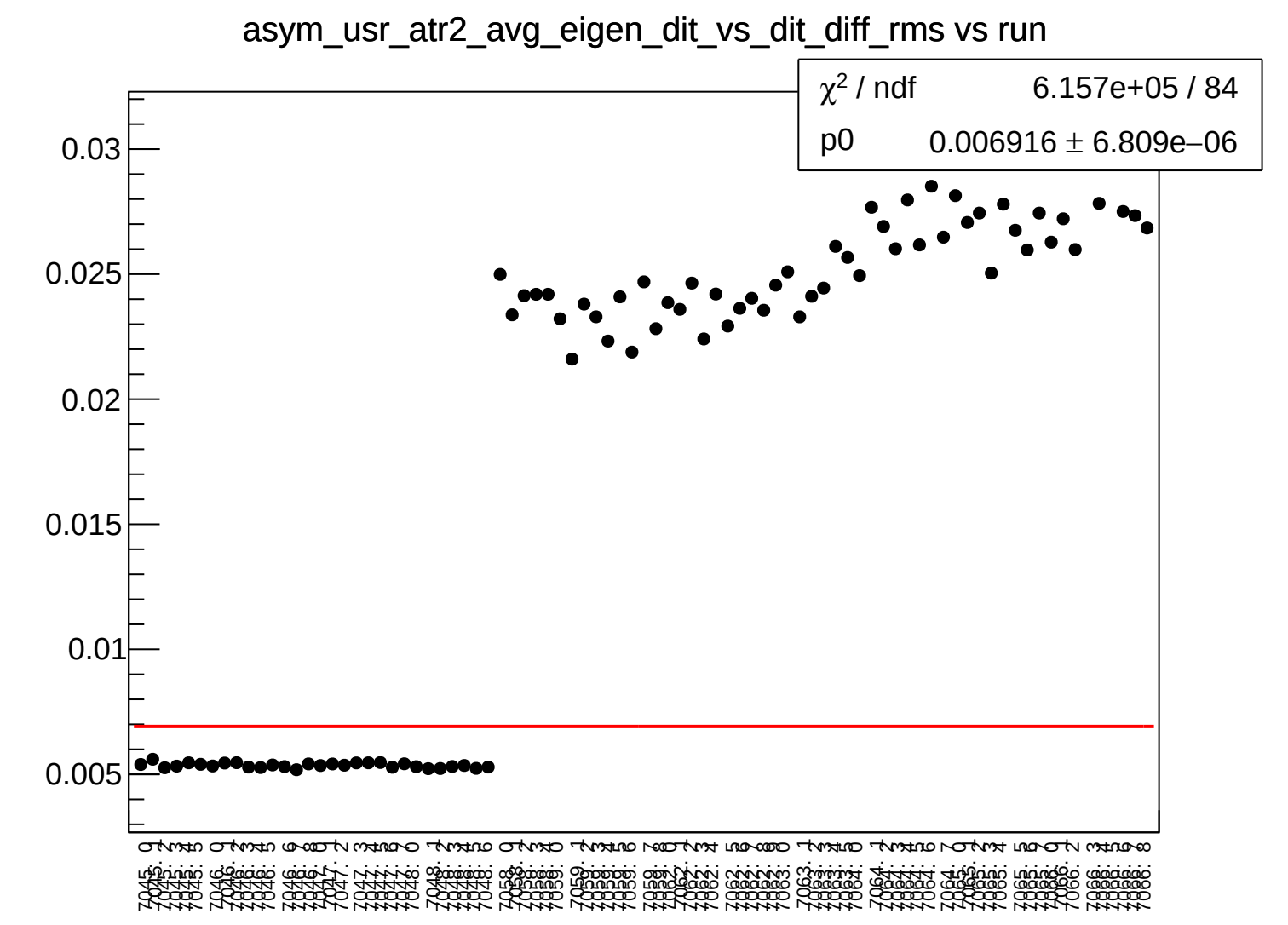

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.534e+04 / 84
p0 359.3 ± 0.2839
700
600
500
400
300

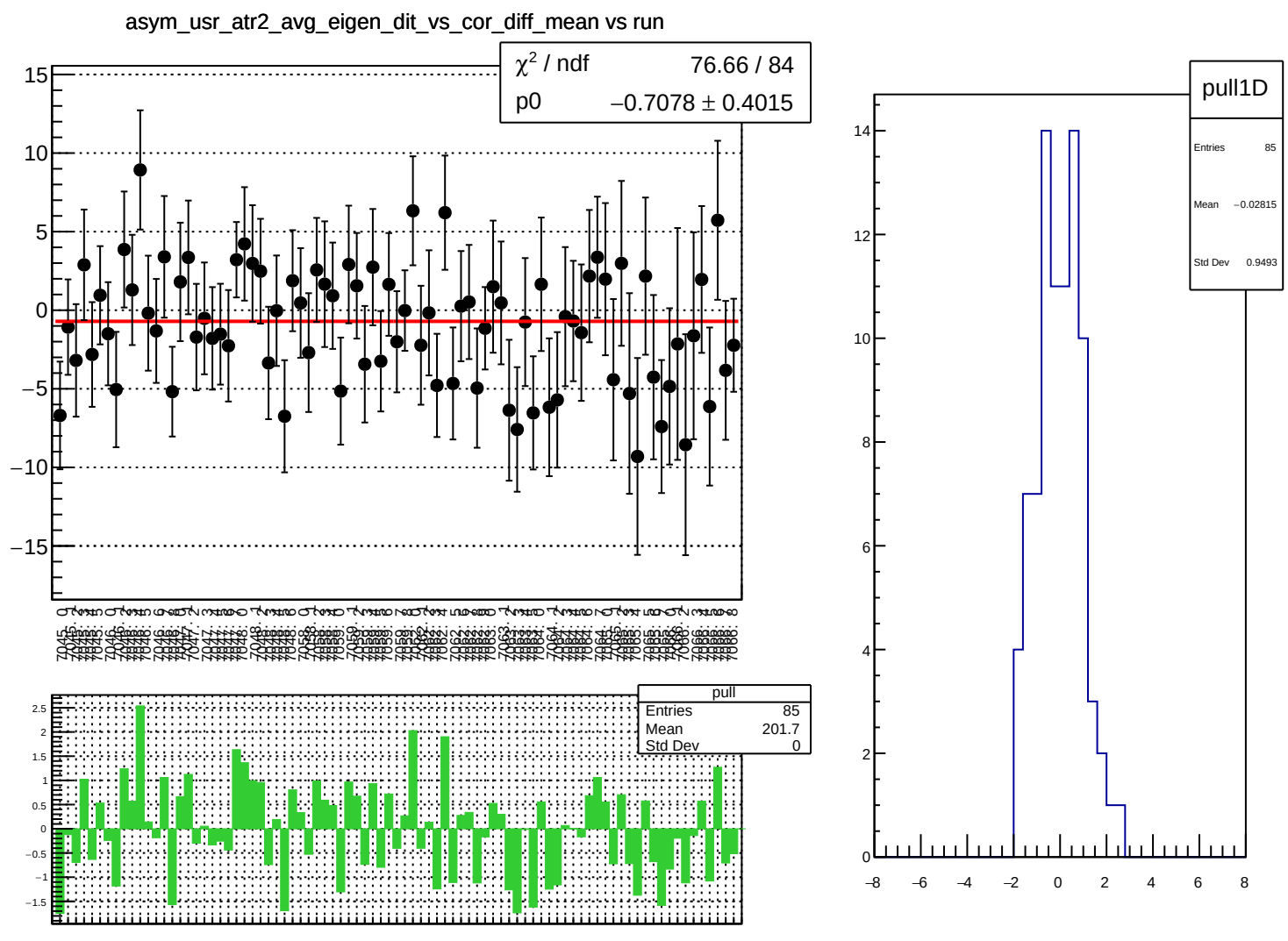

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.66 / 84
p0 −0.7078 ± 0.4015
pull
Entries 85
Mean 201.7
Std Dev 0
pull1D
Entries 85
Mean −0.02815
Std Dev 0.9493

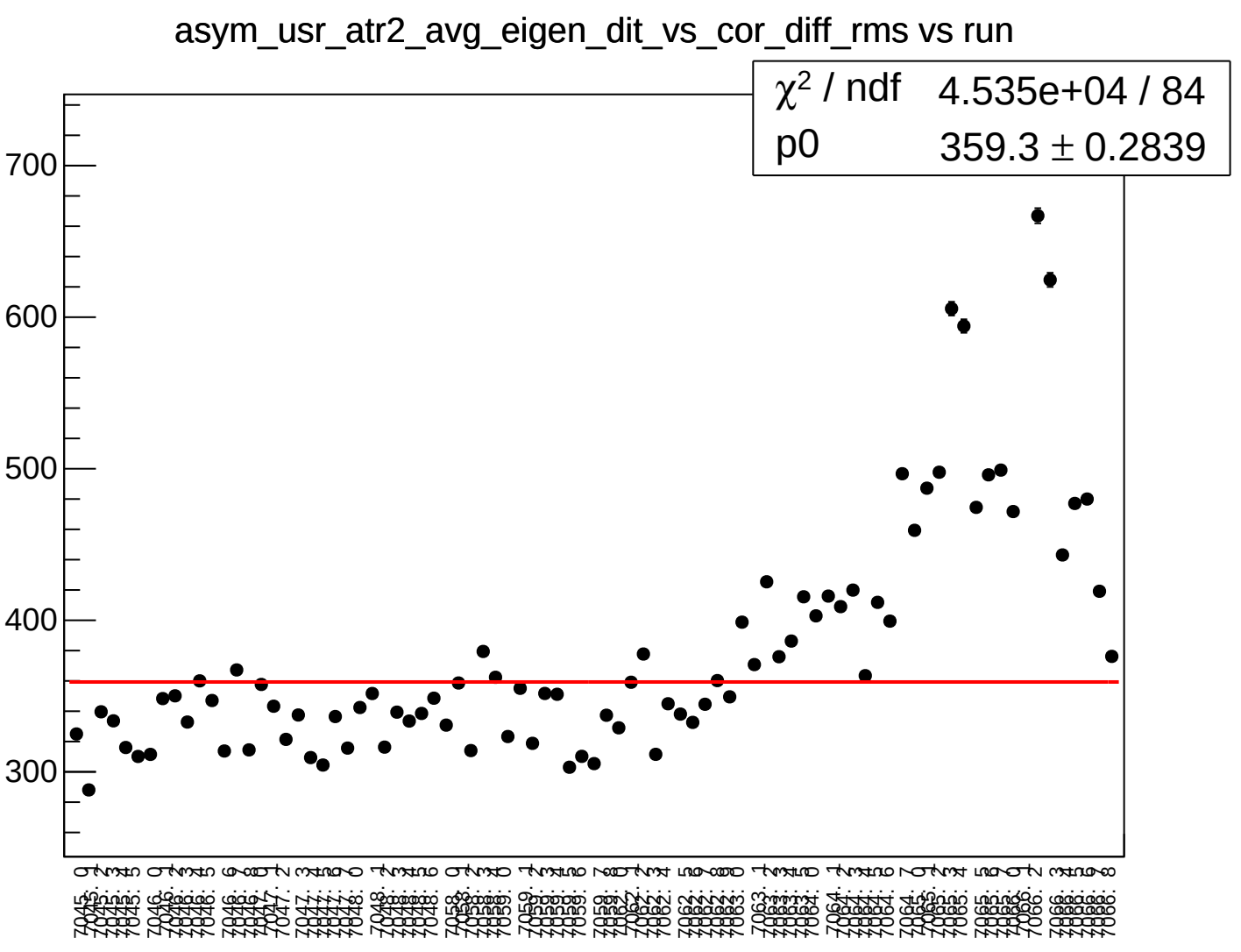

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.534e+04 / 84
p0 359.3 ± 0.2839
700
600
500
400
300

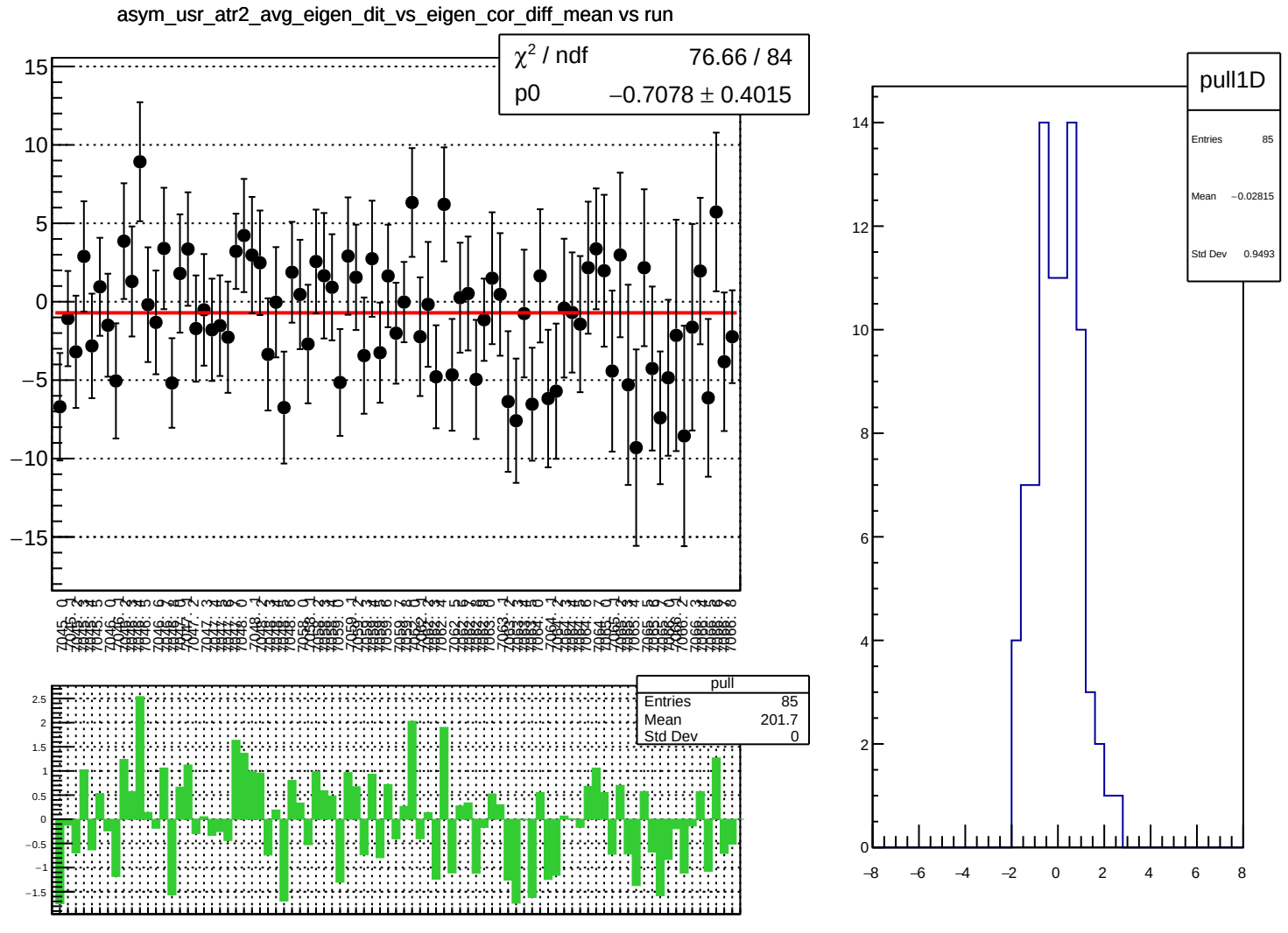

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.19 / 84
p0 3.736e−06 ± 9.63e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 85
Mean 89.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

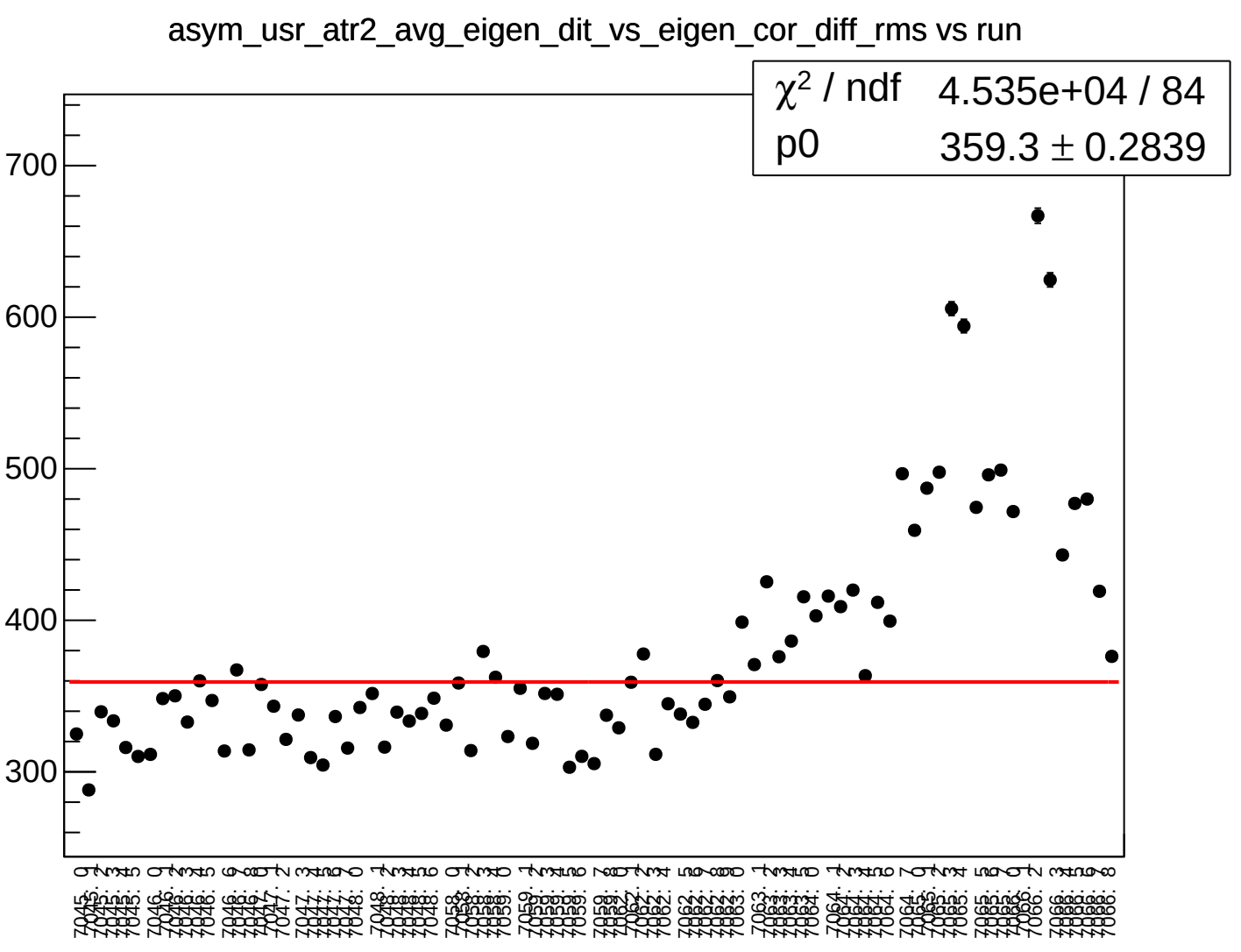

pull1D
Entries 85
Mean −0.1336
Std Dev 0.998
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

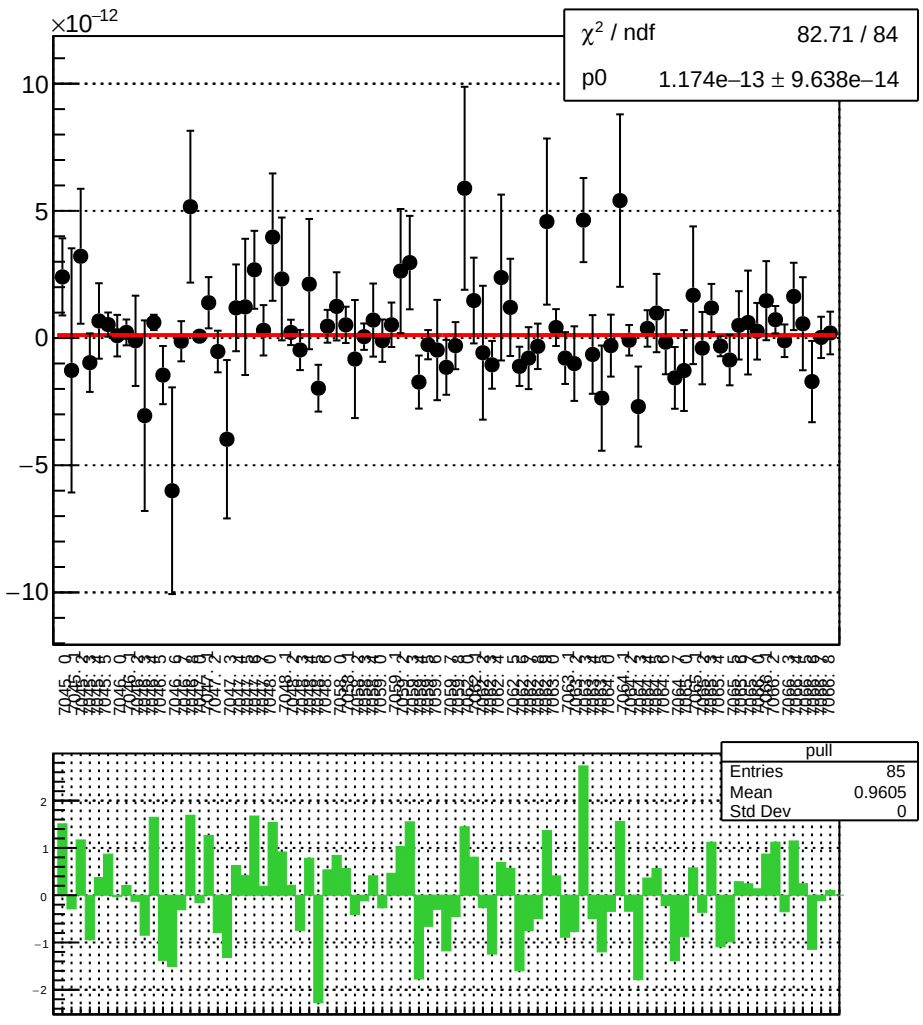

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.157e+05 / 84
p0 0.006916 ± 6.809e−06
0.03
0.025
0.02
0.015
0.01
0.005

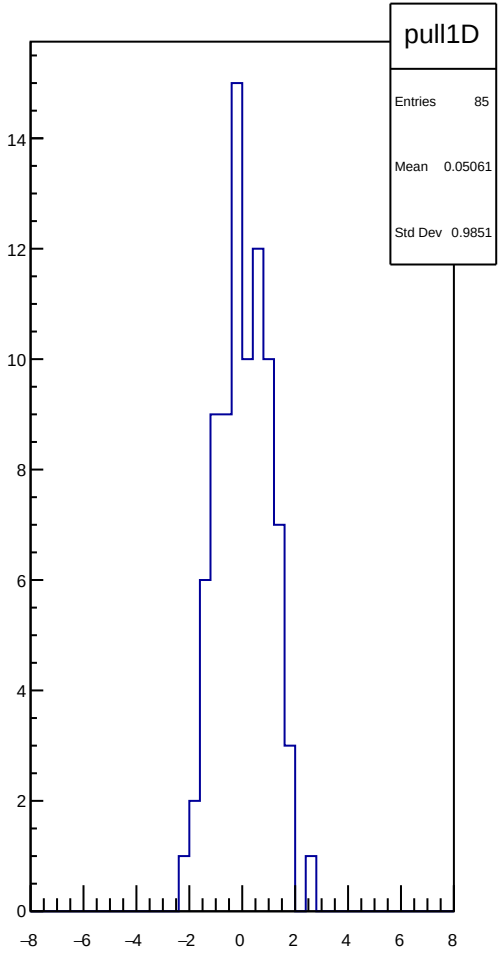

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.66 / 84
p0 −0.7078 ± 0.4015
pull
Entries 85
Mean 201.7
Std Dev 0
pull1D
Entries 85
Mean −0.02815
Std Dev 0.9493

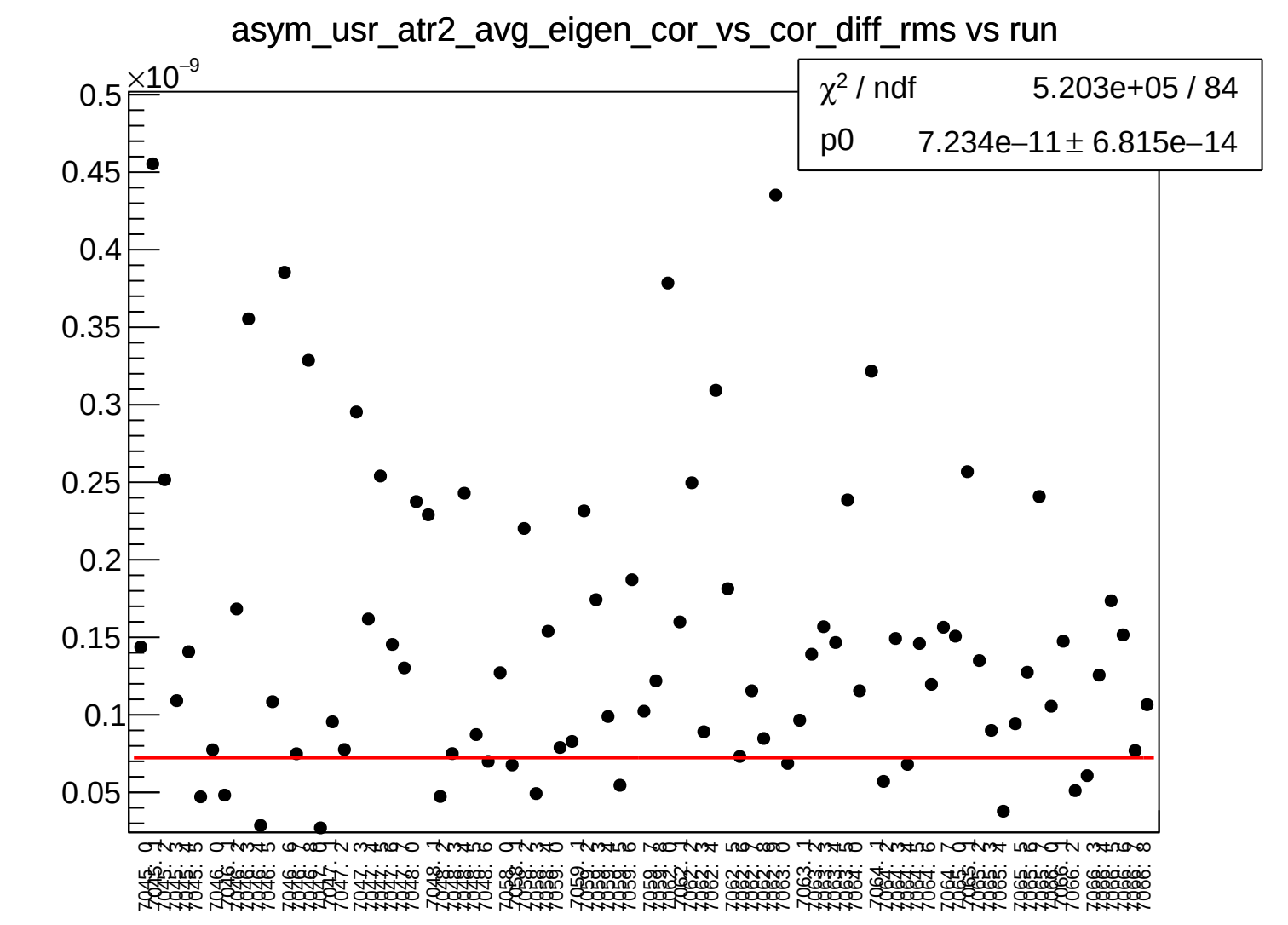

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.535e+04 / 84
p0 359.3 ± 0.2839
700
600
500
400
300

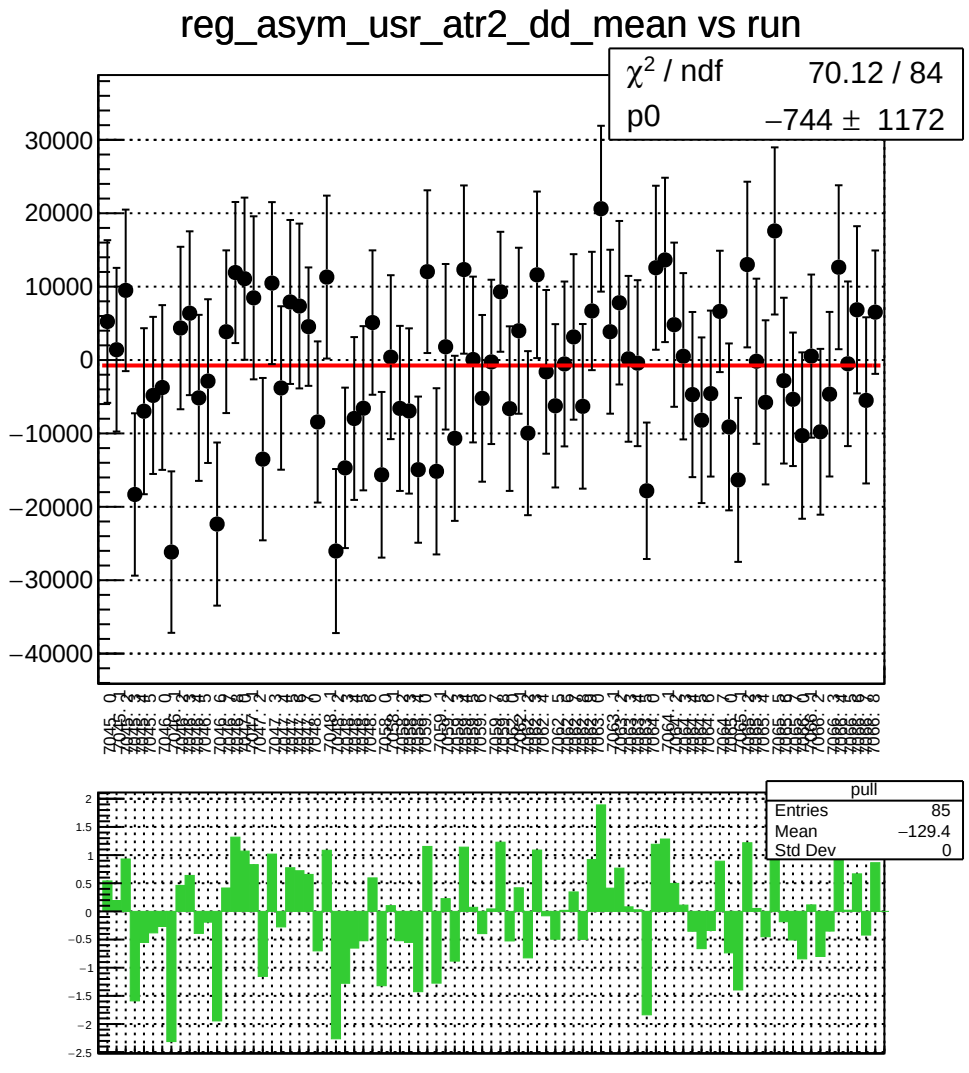

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.66 / 84
p0 −0.7078 ± 0.4015
pull
Entries 85
Mean 201.7
Std Dev 0
pull1D
Entries 85
Mean −0.02815
Std Dev 0.9493

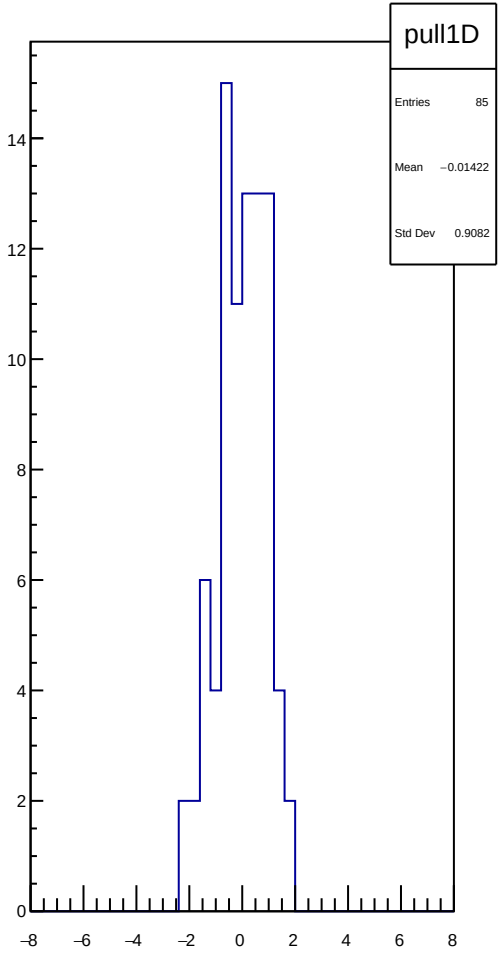

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.535e+04 / 84
p0 359.3 ± 0.2839
700
600
500
400
300

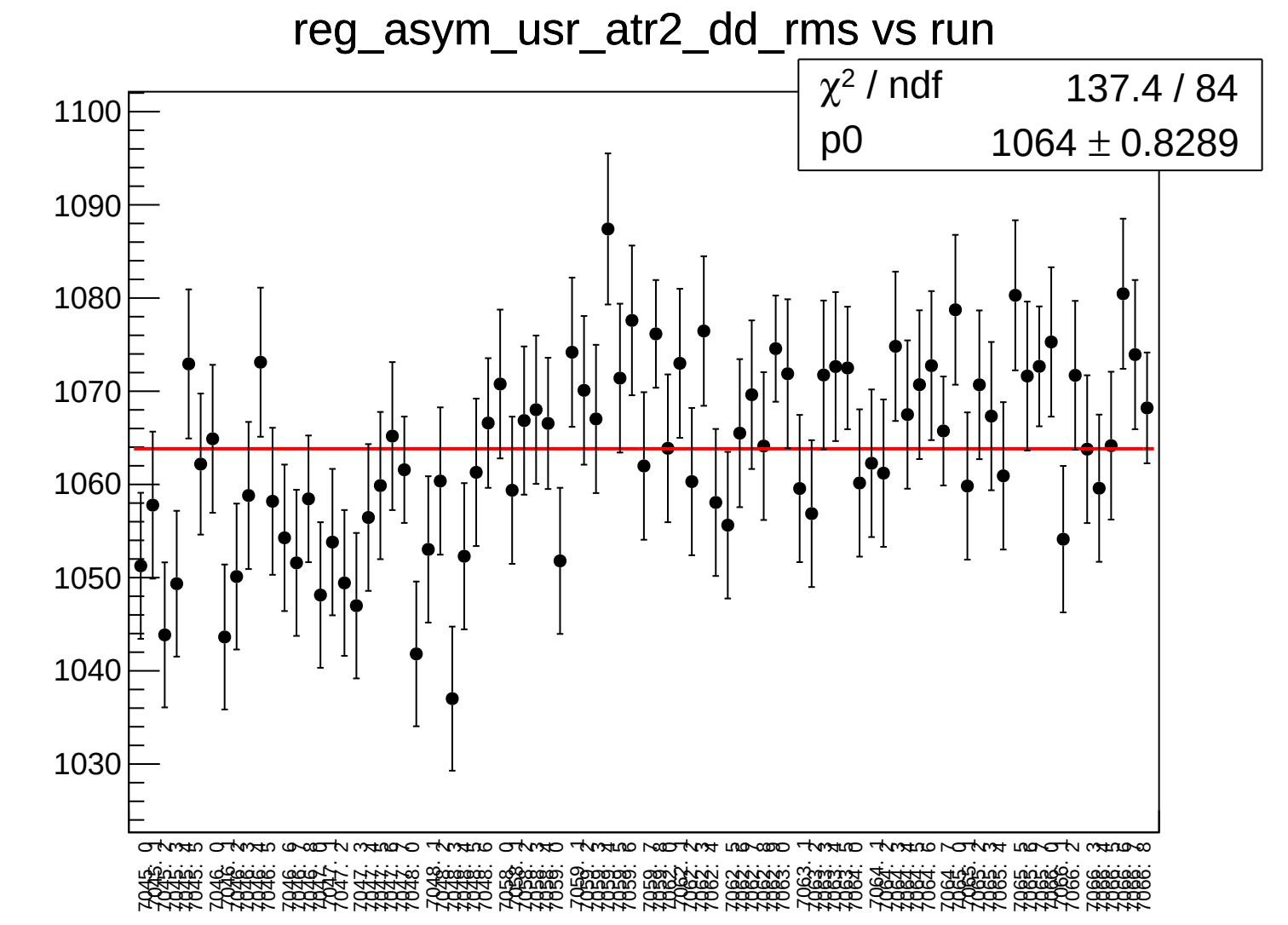

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.71 / 84
p0 1.174e−13 ± 9.638e−14
pull
Entries 85
Mean 0.9605
Std Dev 0

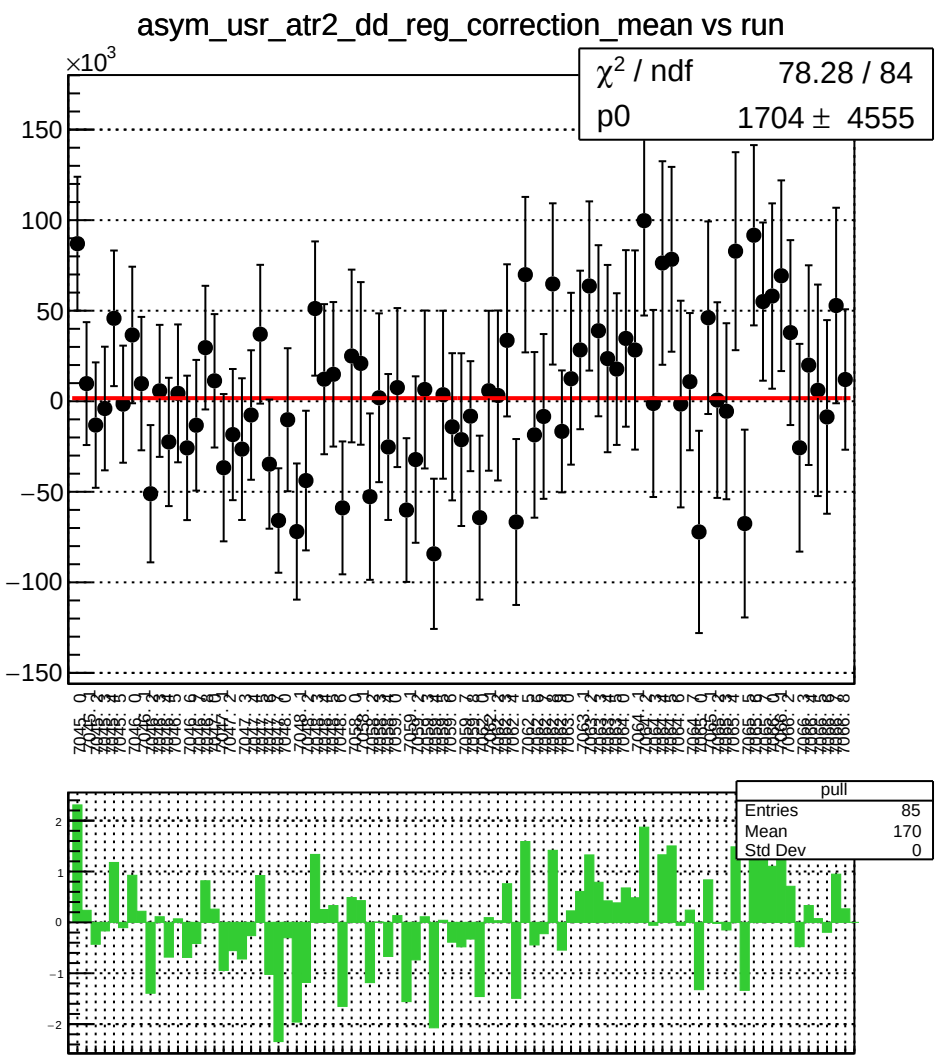

pull1D
Entries 85
Mean 0.05061
Std Dev 0.9851

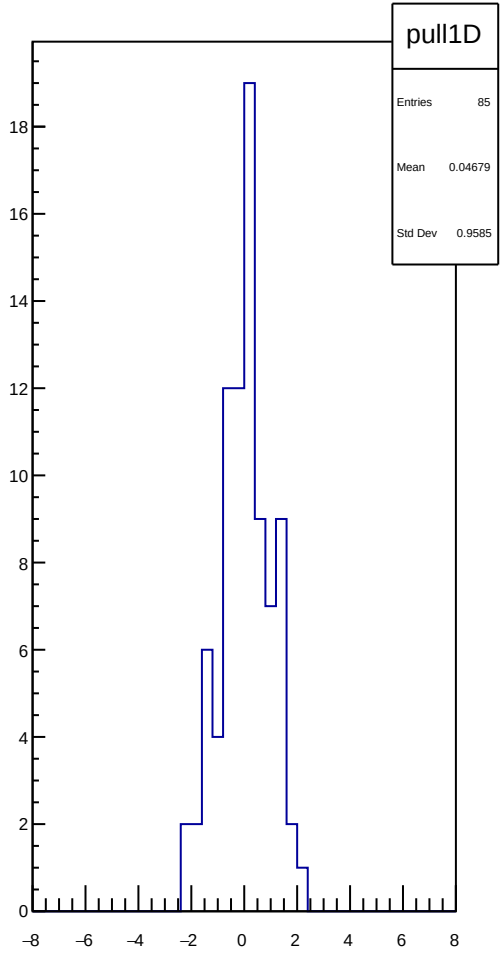

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.203e+05 / 84
p0 7.234e−11 ± 6.815e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

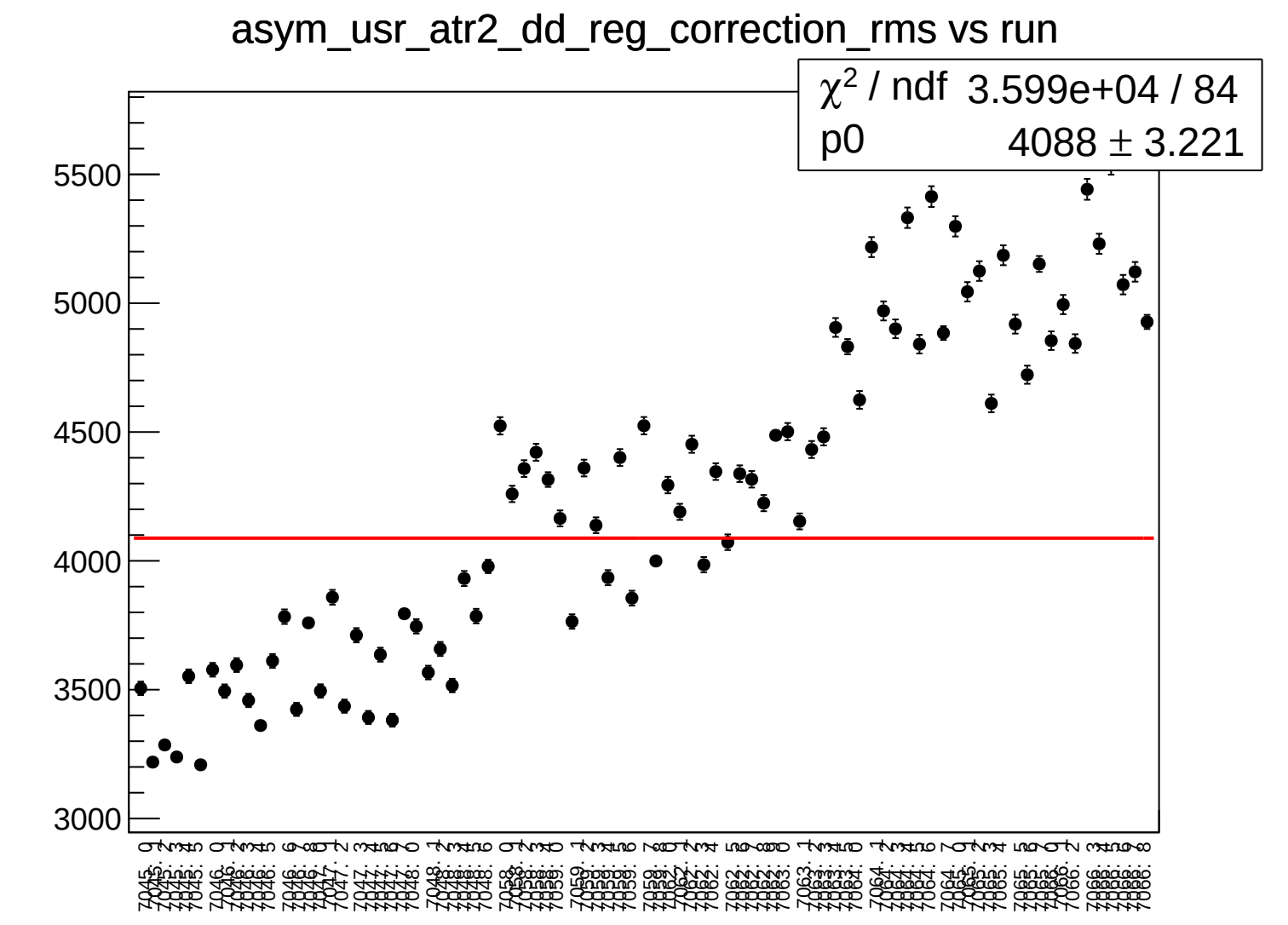

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 70.12 / 84
p0 −744 ± 1172
pull
Entries 85
Mean −129.4
Std Dev 0

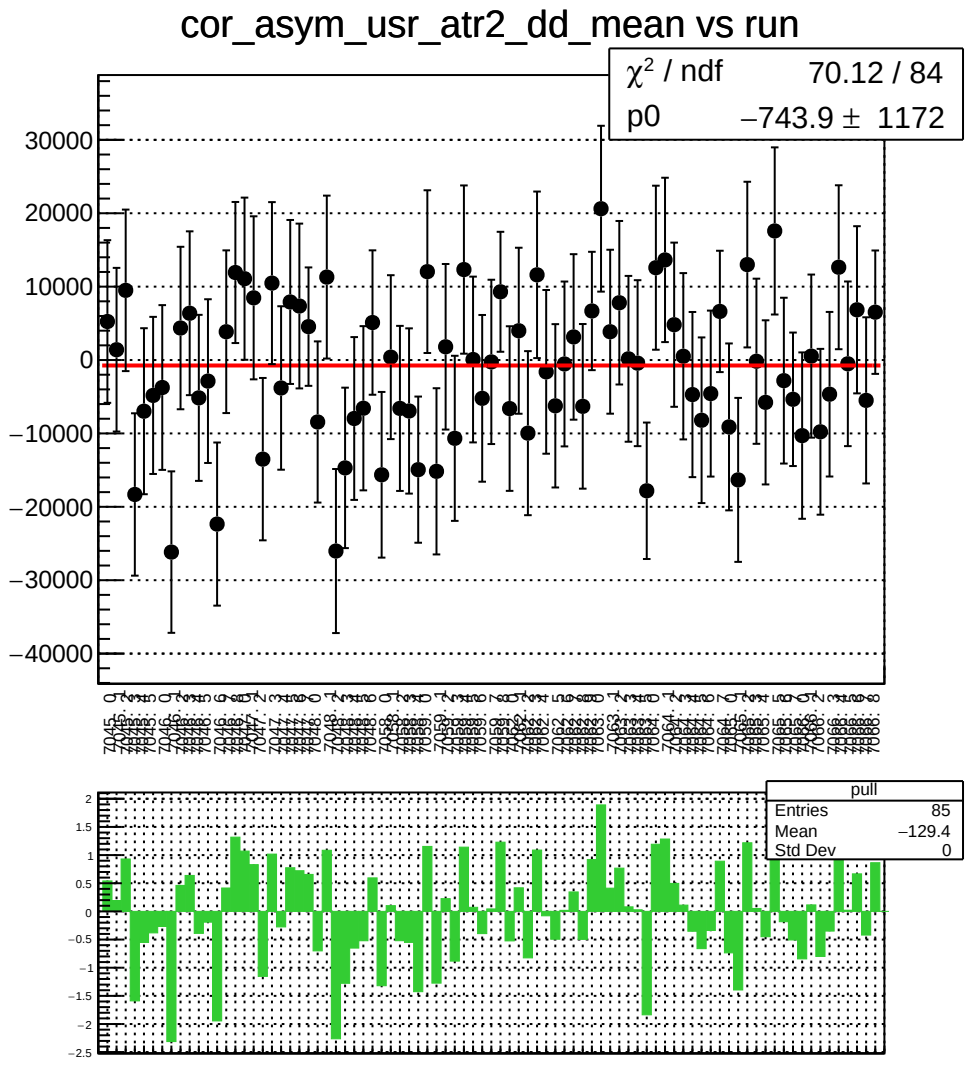

pull1D
Entries 85
Mean −0.01422
Std Dev 0.9082

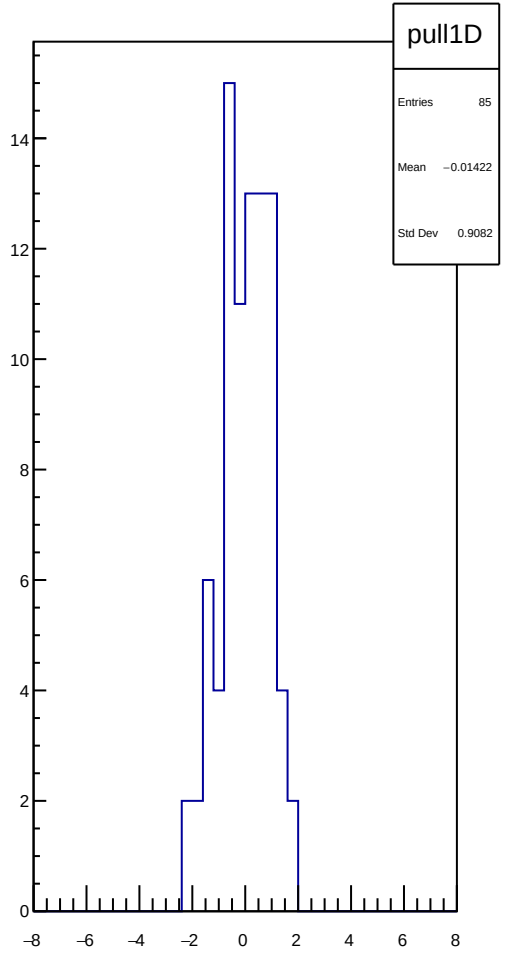

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 137.4 / 84
p0 1064 ± 0.8289
1100
1090
1080
1070
1060
1050
1040
1030

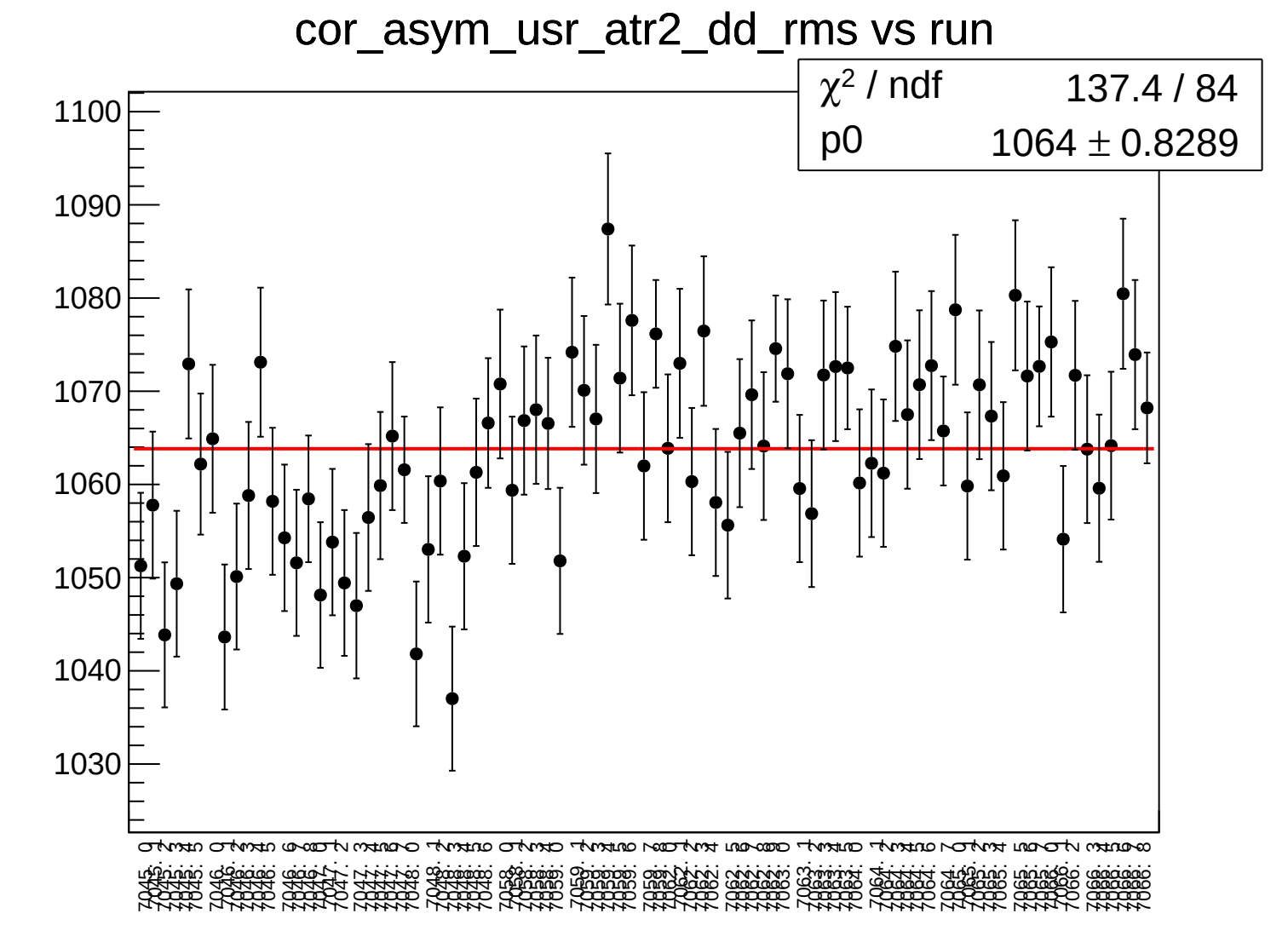

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 78.28 / 84
p0 1704 ± 4555
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 170
Std Dev 0
2
1
0
−1
−2

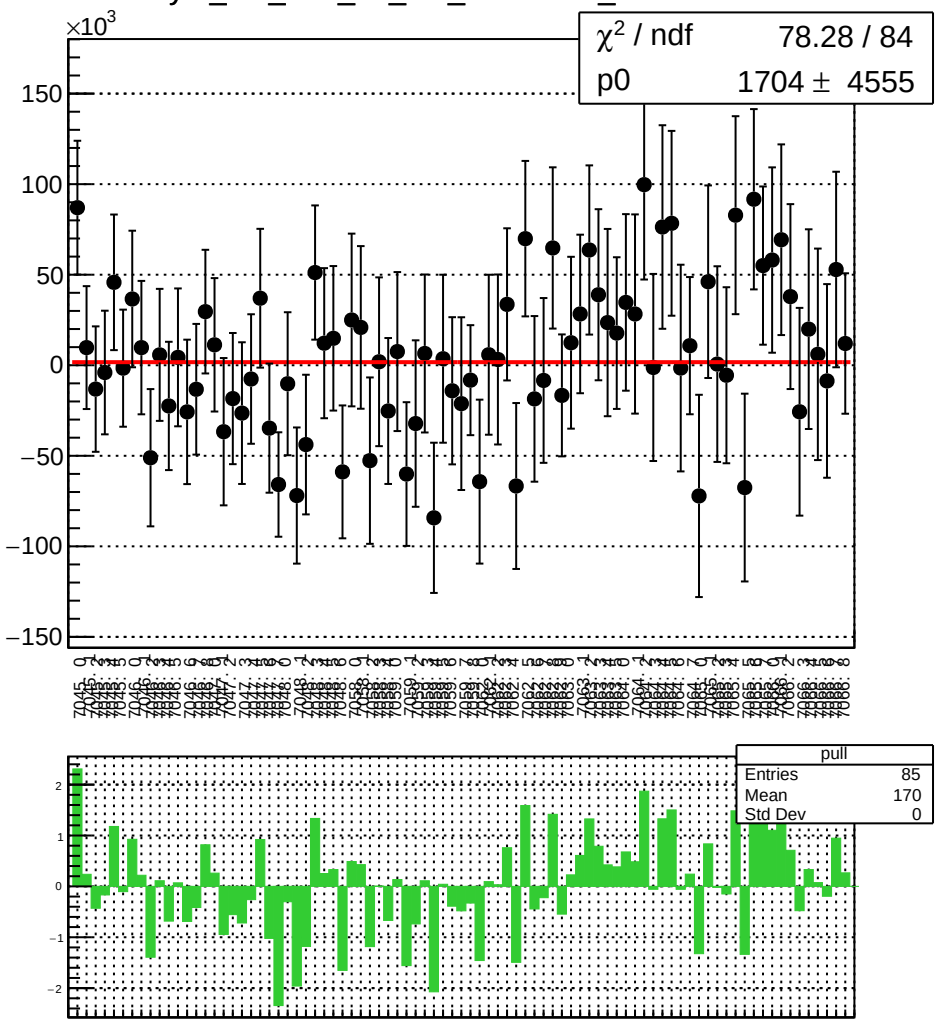

pull1D
Entries 85
Mean 0.04679
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

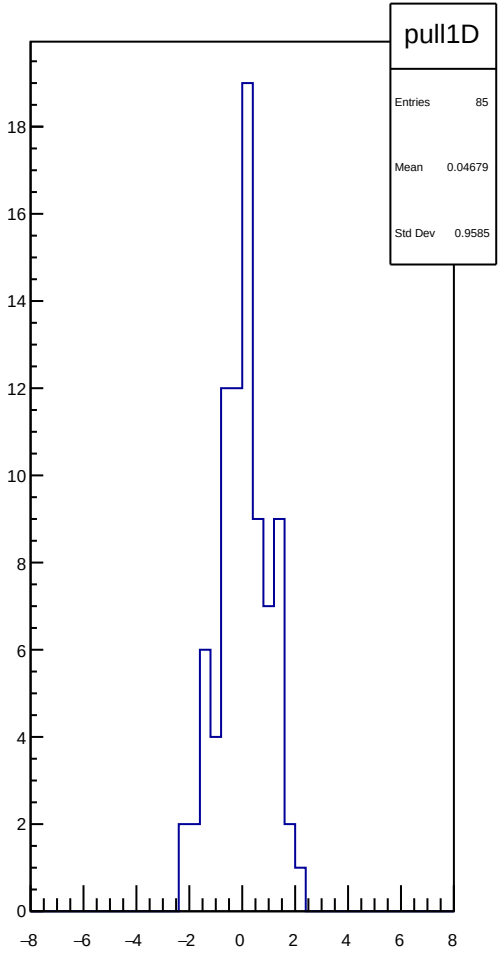

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3.599e+04 / 84
p0 4088 ± 3.221
5500
5000
4500
4000
3500
3000

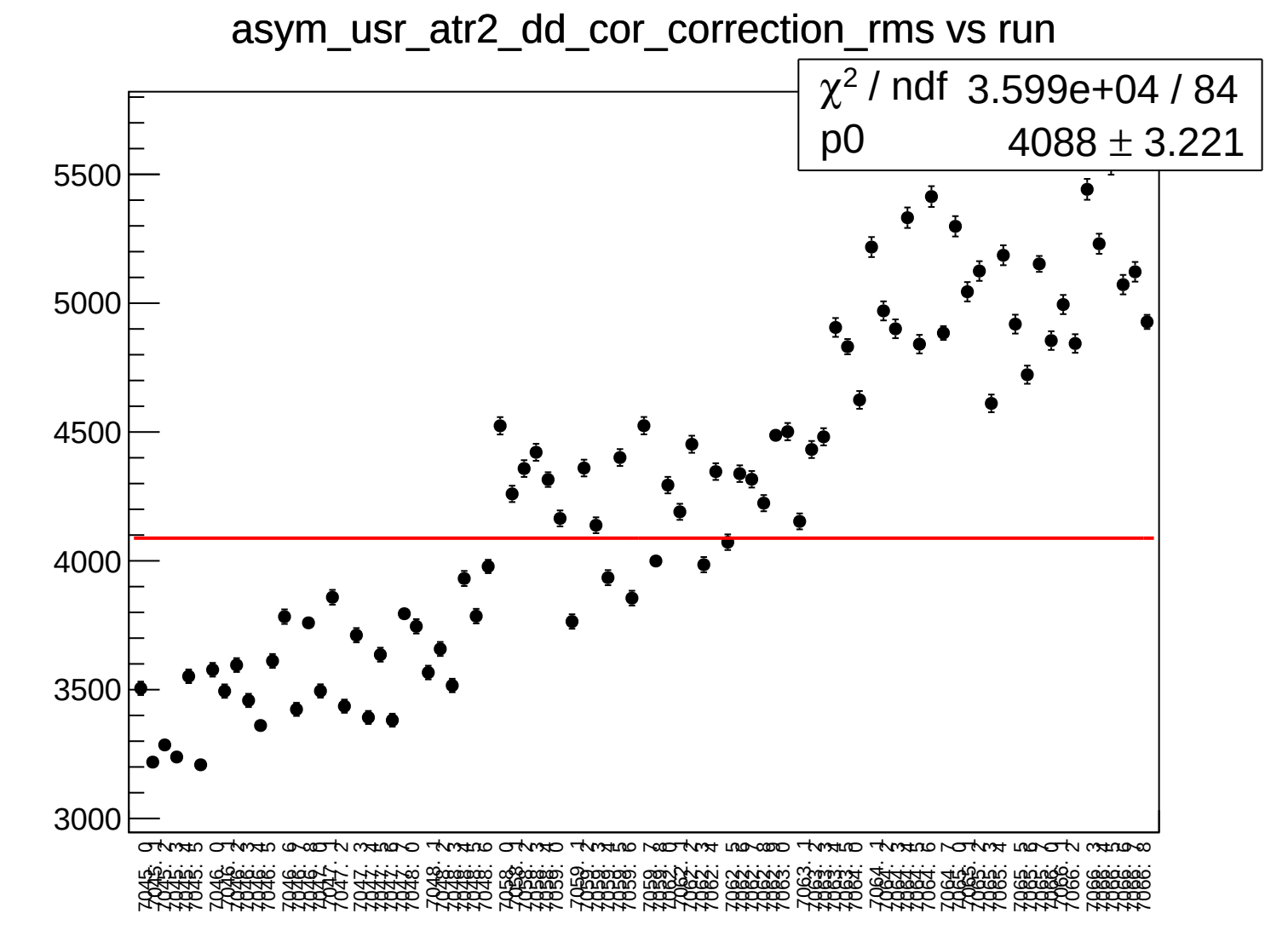

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 70.12 / 84
p0 −743.9 ± 1172
pull
Entries 85
Mean −129.4
Std Dev 0

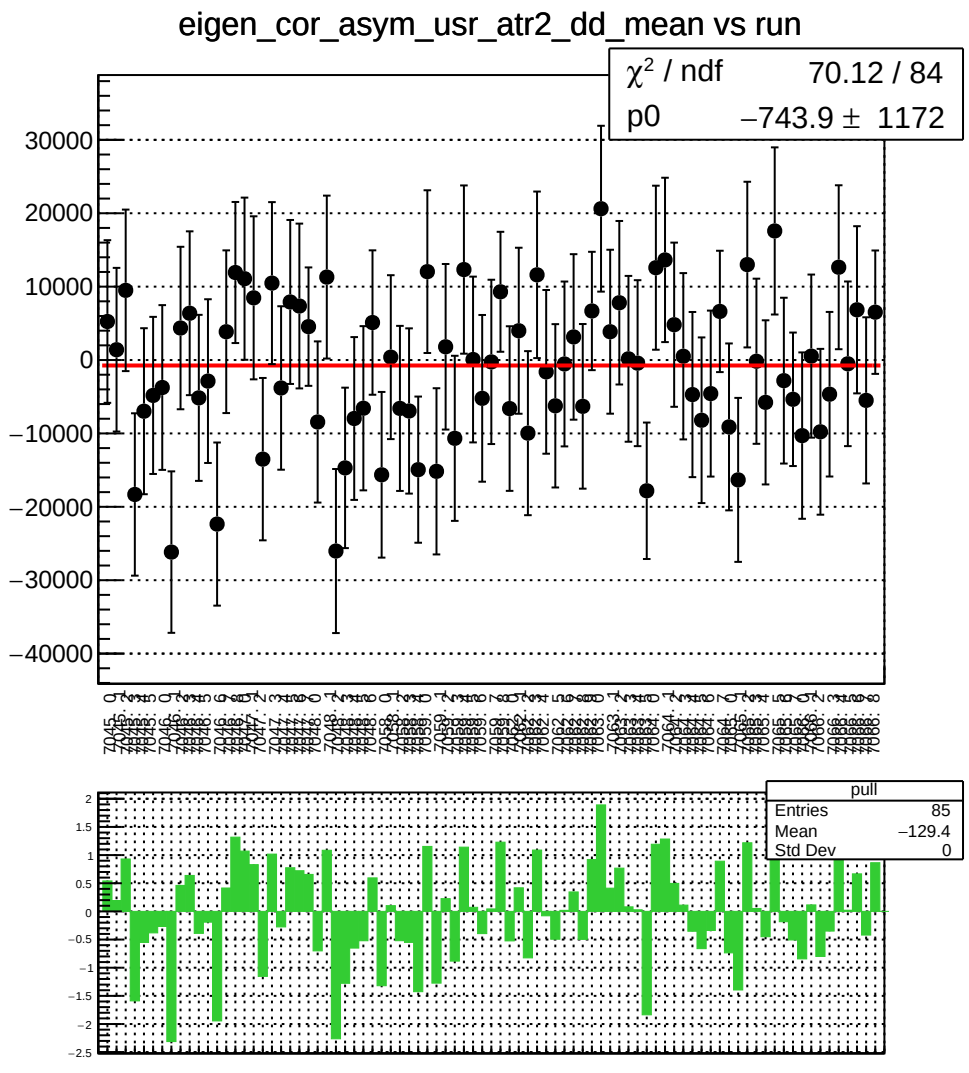

pull1D
Entries 85
Mean −0.01422
Std Dev 0.9082

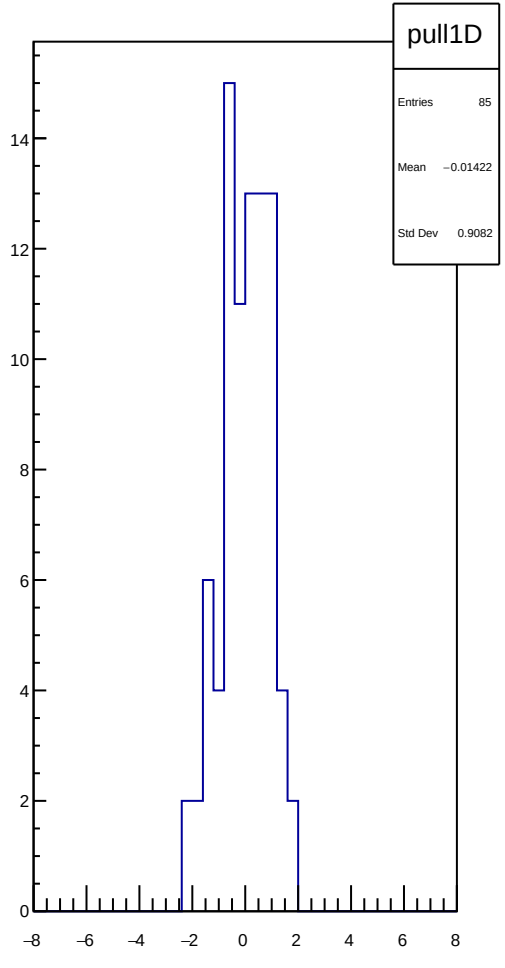

cor_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 137.4 / 84
p0 1064 ± 0.8289
1100
1090
1080
1070
1060
1050
1040
1030


asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 78.28 / 84
p0 1704 ± 4555
×10³
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 170
Std Dev 0
2
1
0
−1
−2

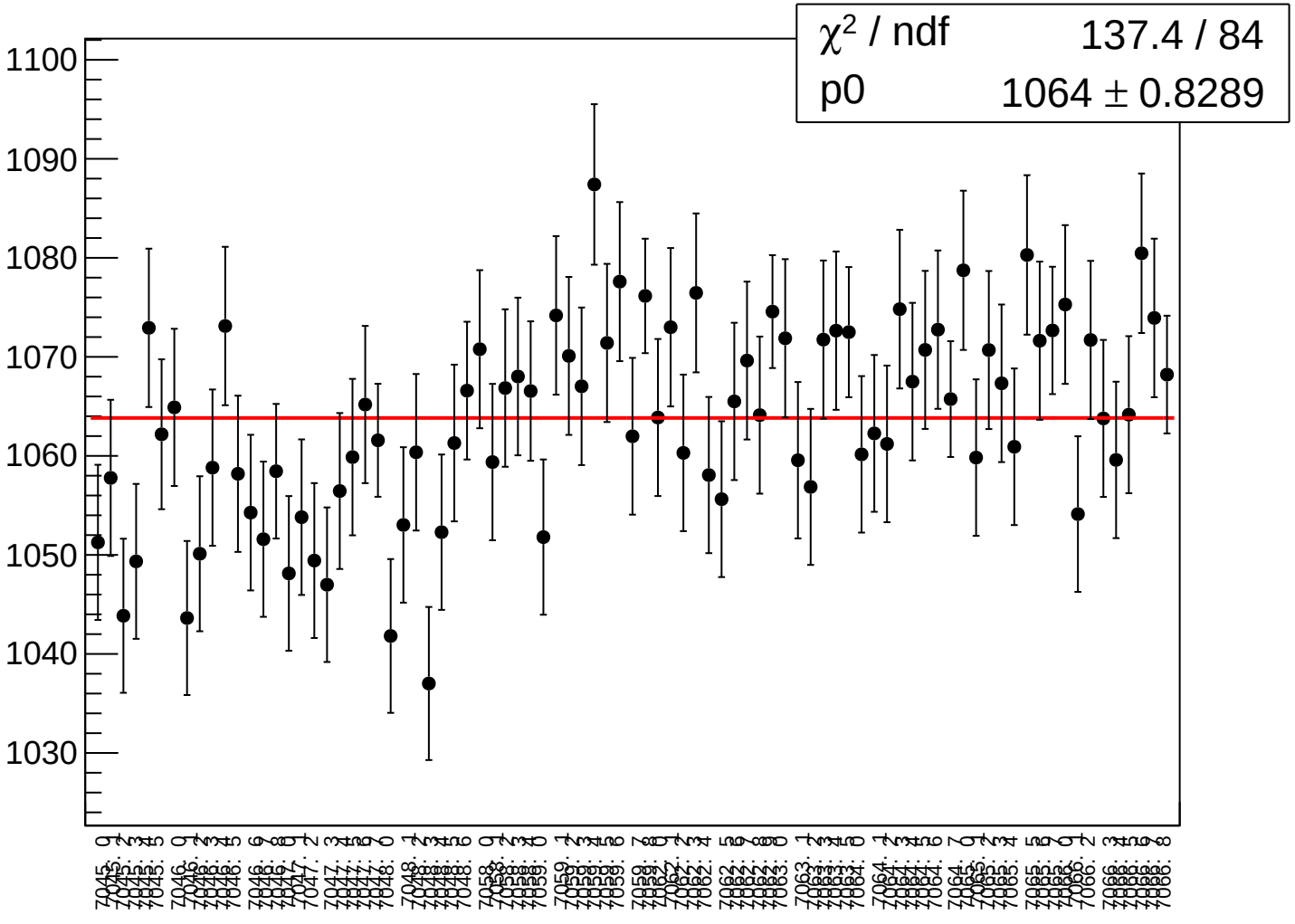

pull1D
Entries 85
Mean 0.04679
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

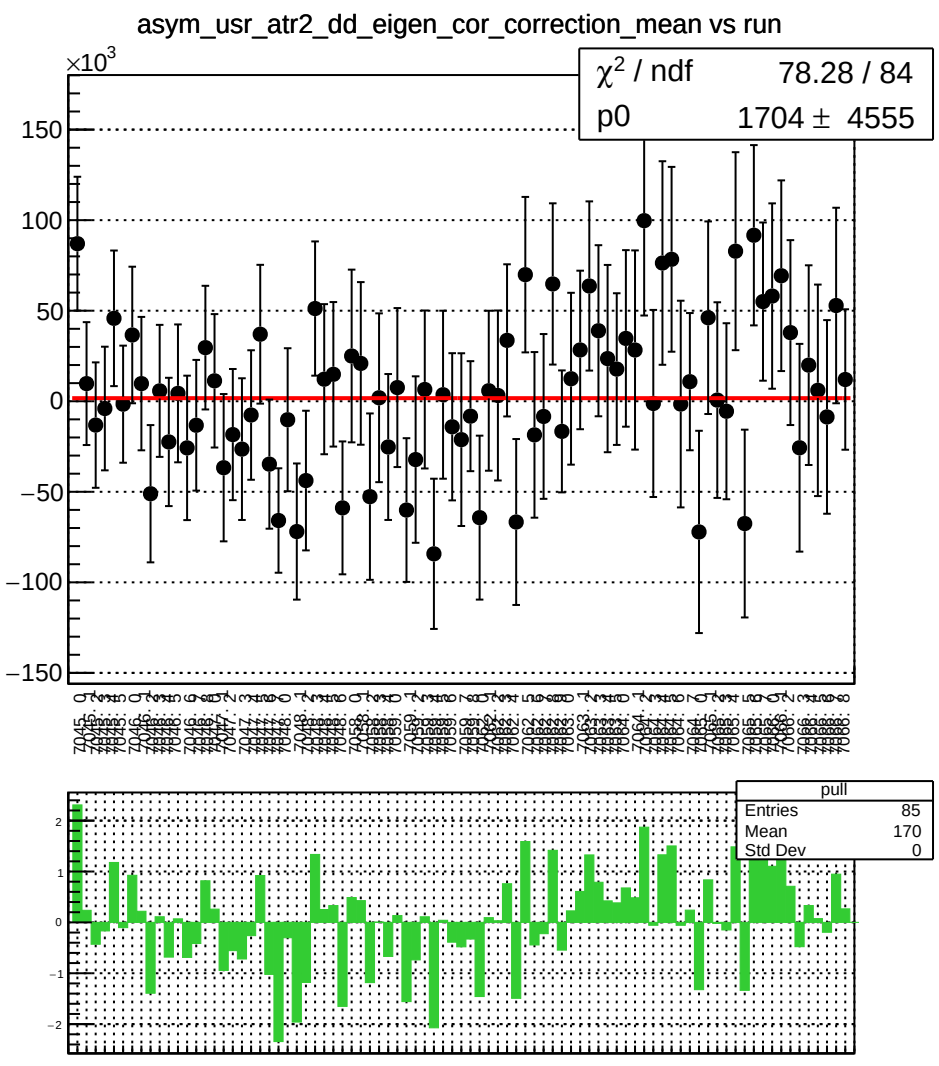

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3.599e+04 / 84
p0 4088 ± 3.221
5500
5000
4500
4000
3500
3000

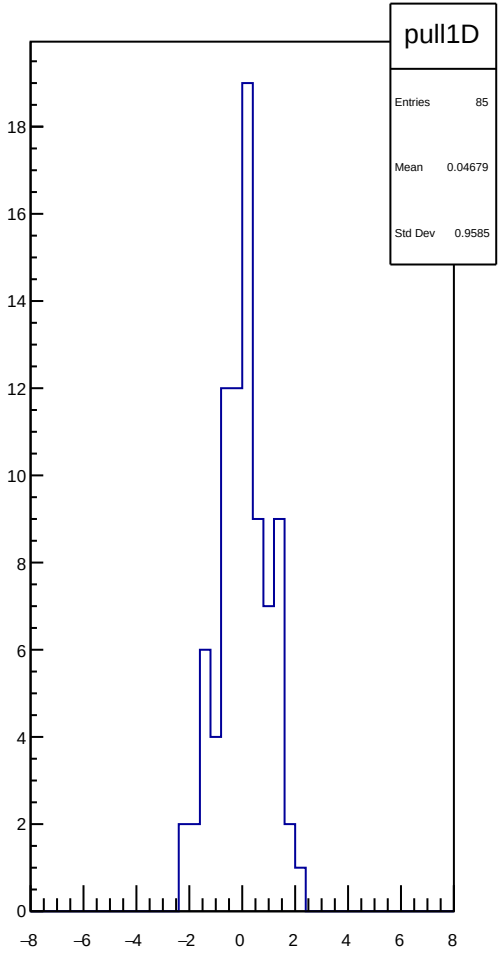

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 70.12 / 84
p0 −743.9 ± 1172
pull
Entries 85
Mean −129.4
Std Dev 0

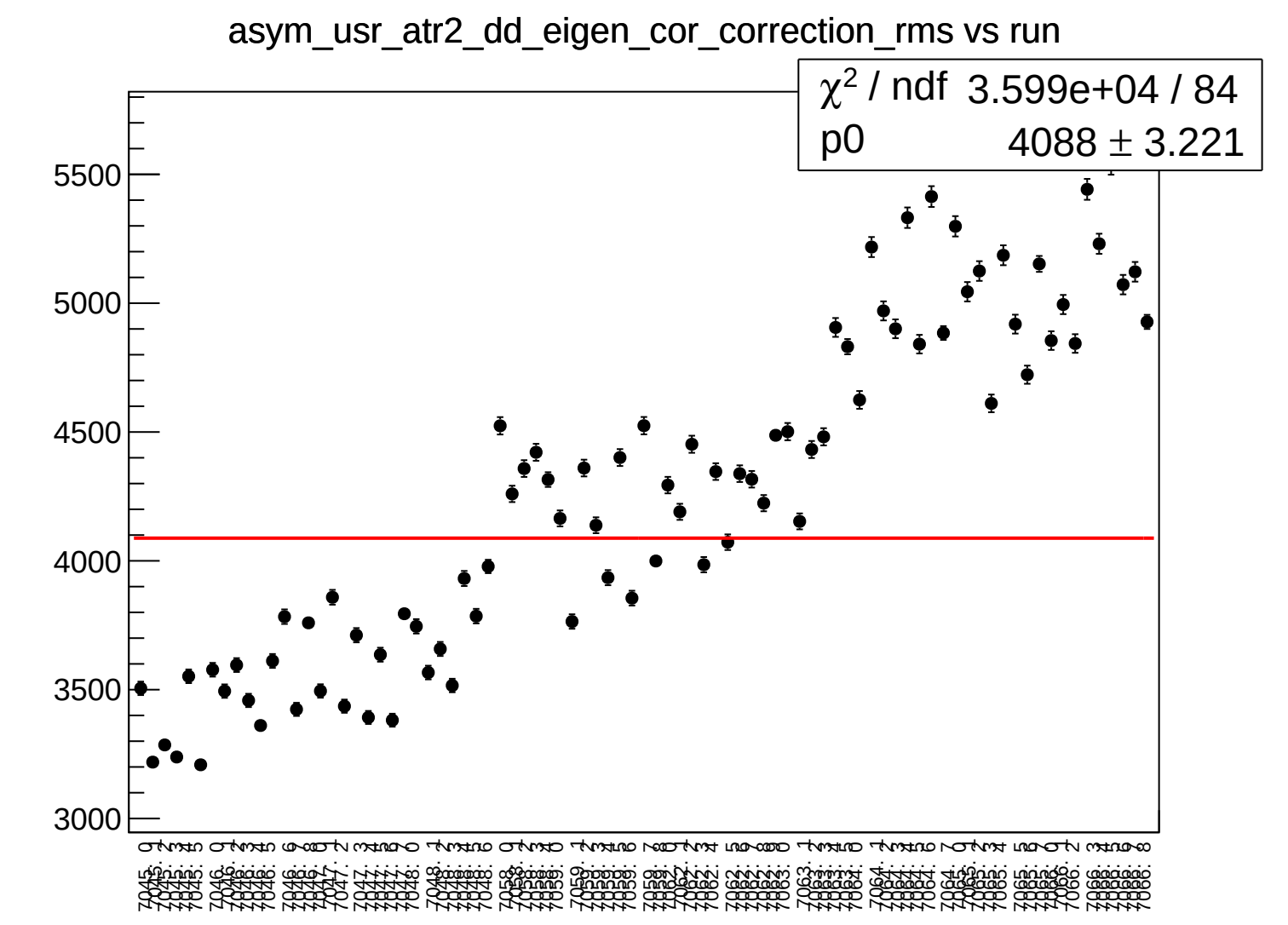

pull1D
Entries 85
Mean −0.01422
Std Dev 0.9082

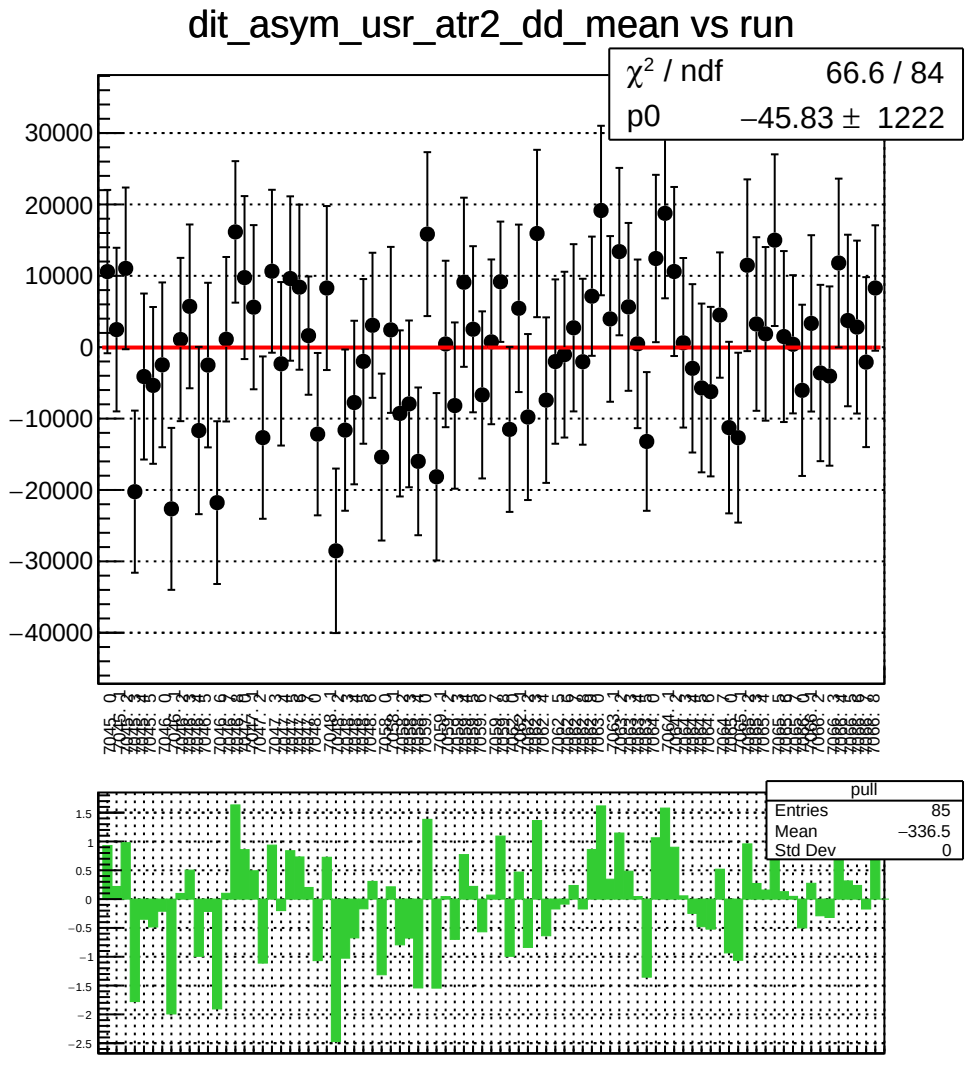
eigen_cor_asym_usr_atr2_dd_rms vs run

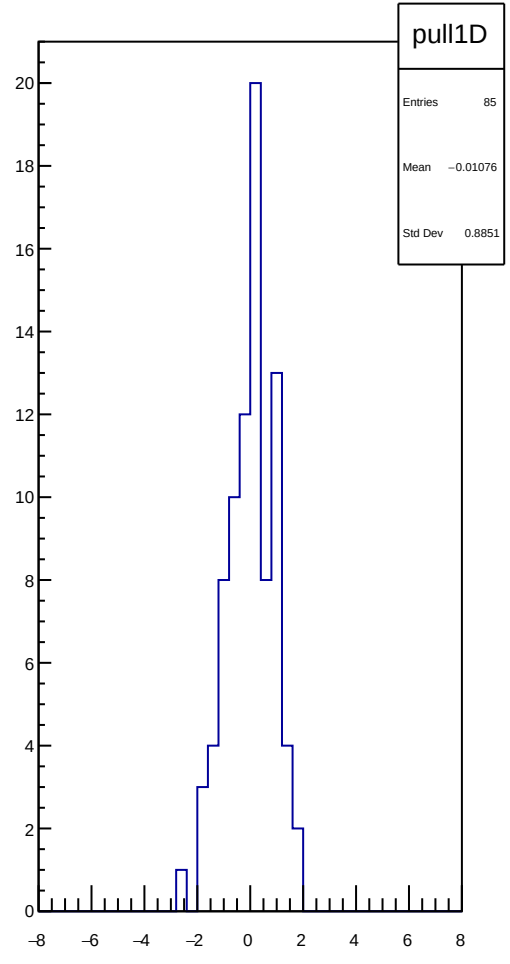


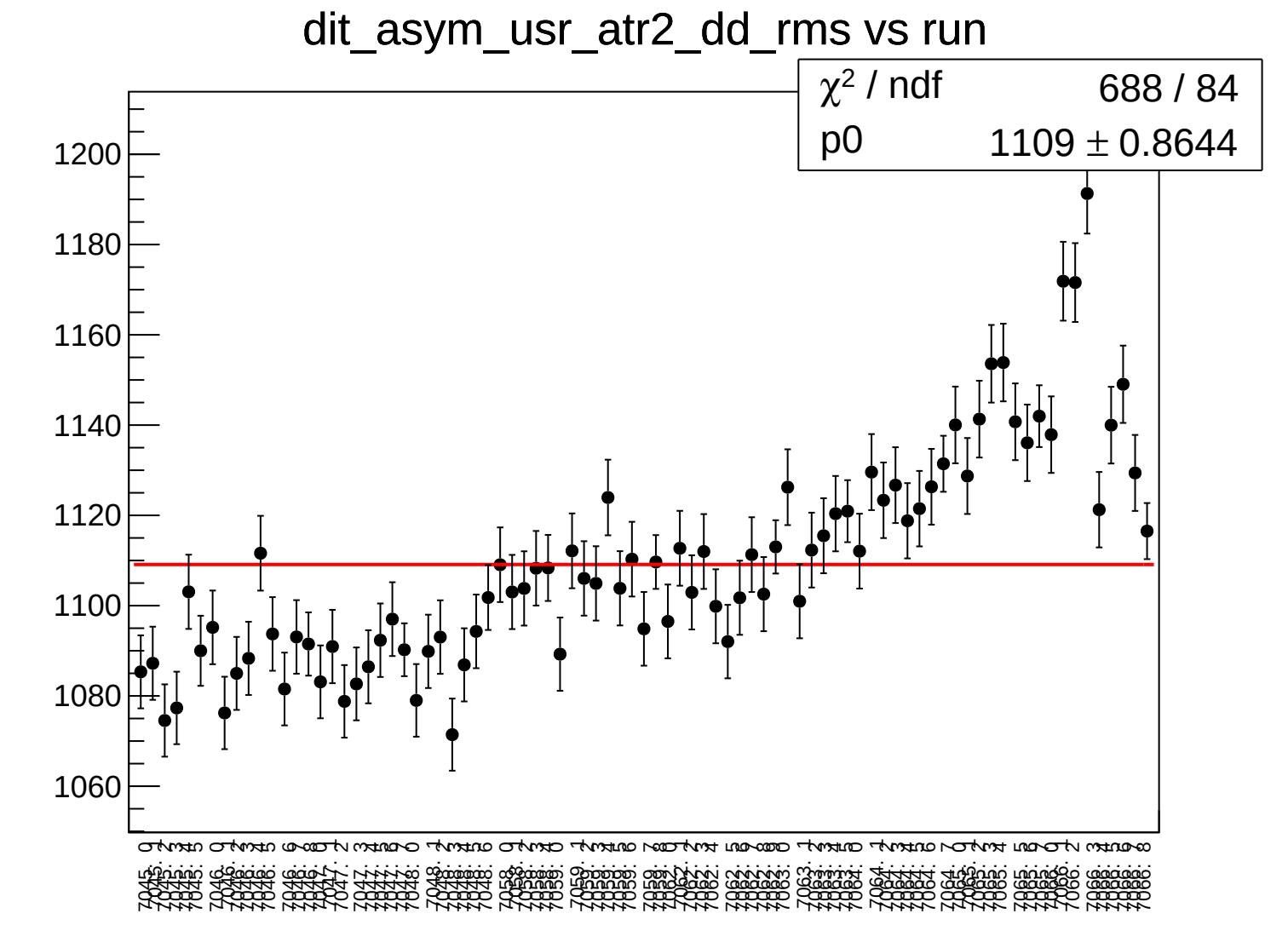

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.28 / 84
p0 1704 ± 4555
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 170
Std Dev 0
2
1
0
−1
−2

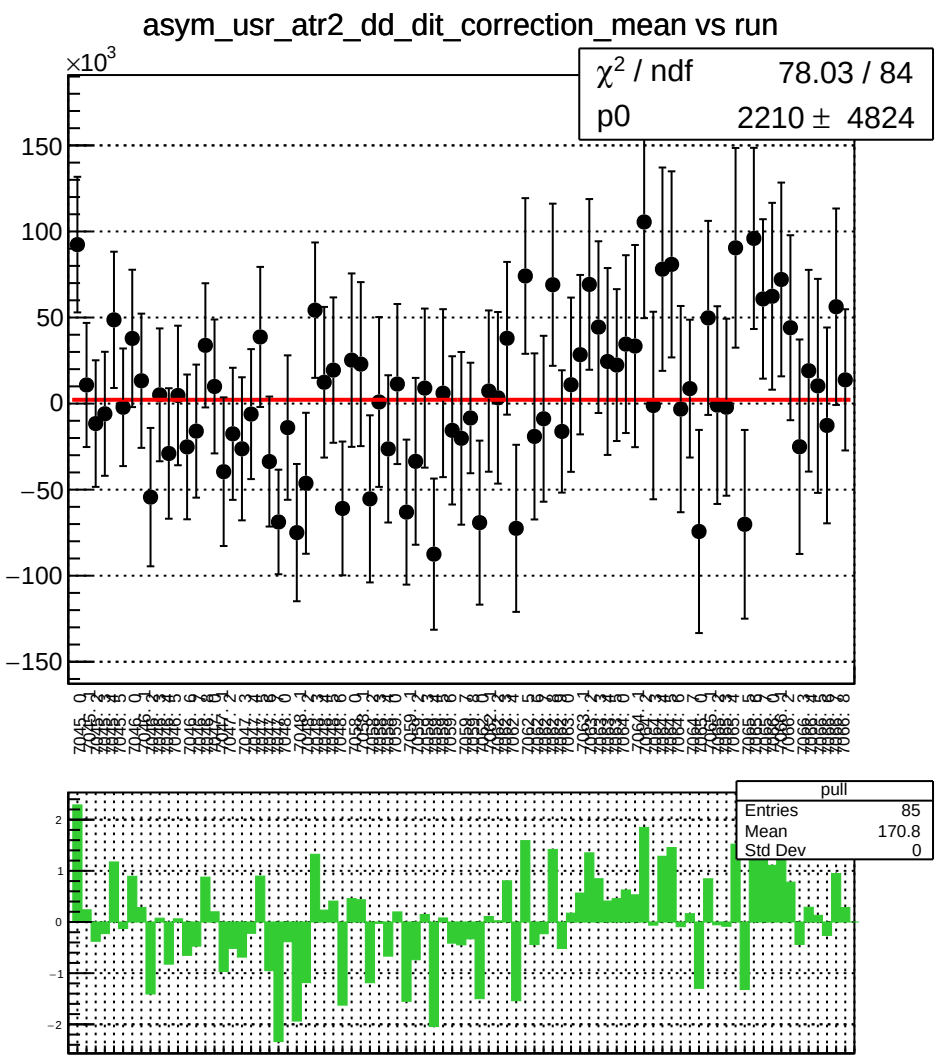

pull1D
Entries 85
Mean 0.04679
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

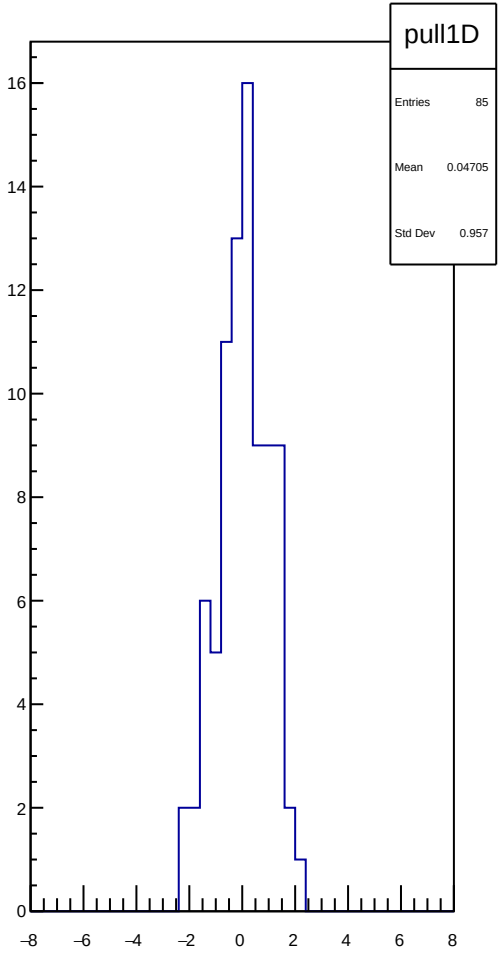

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.599e+04 / 84
p0 4088 ± 3.221
5500
5000
4500
4000
3500
3000

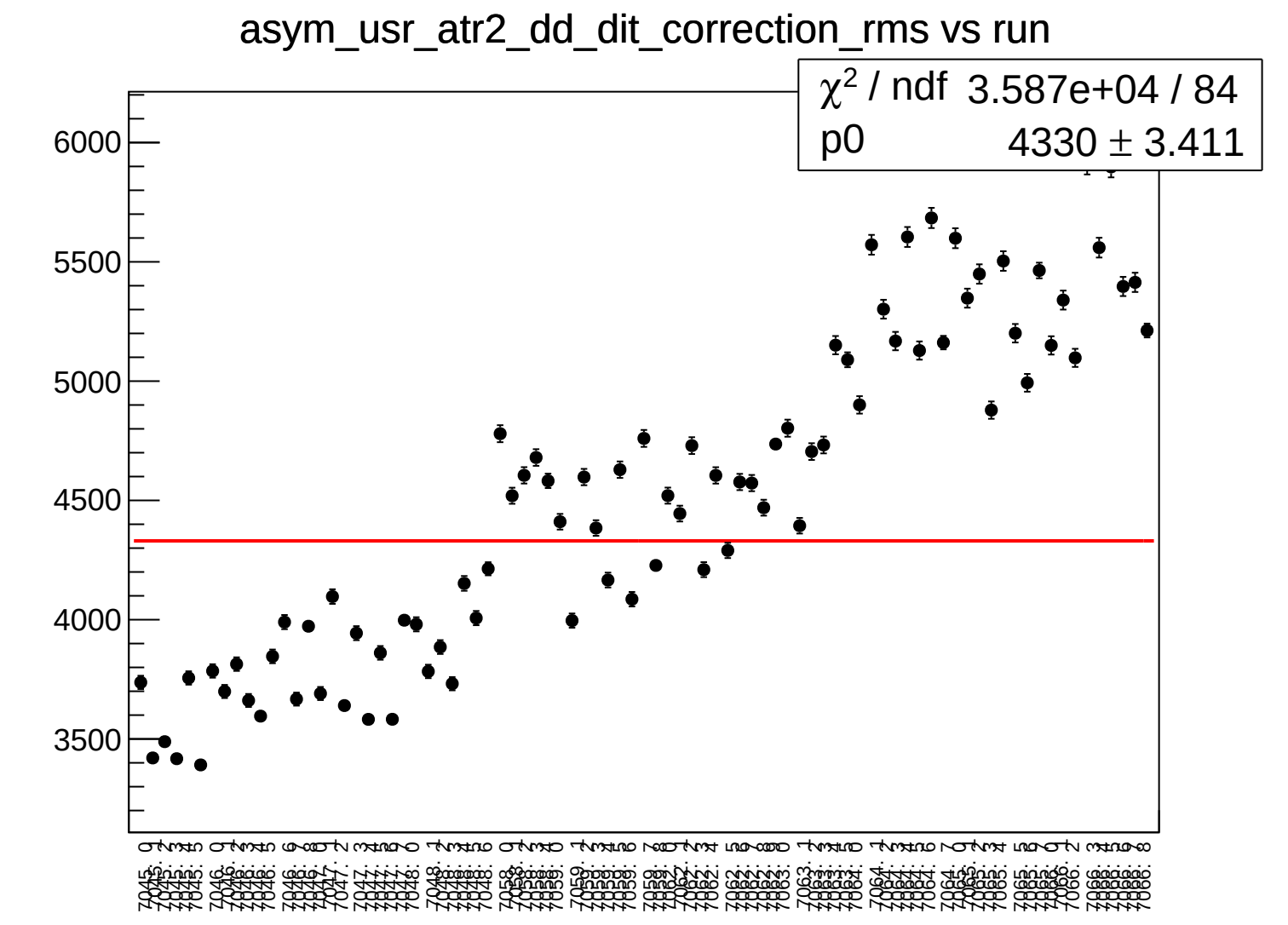

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 66.6 / 84
p0 −45.83 ± 1222
pull
Entries 85
Mean −336.5
Std Dev 0

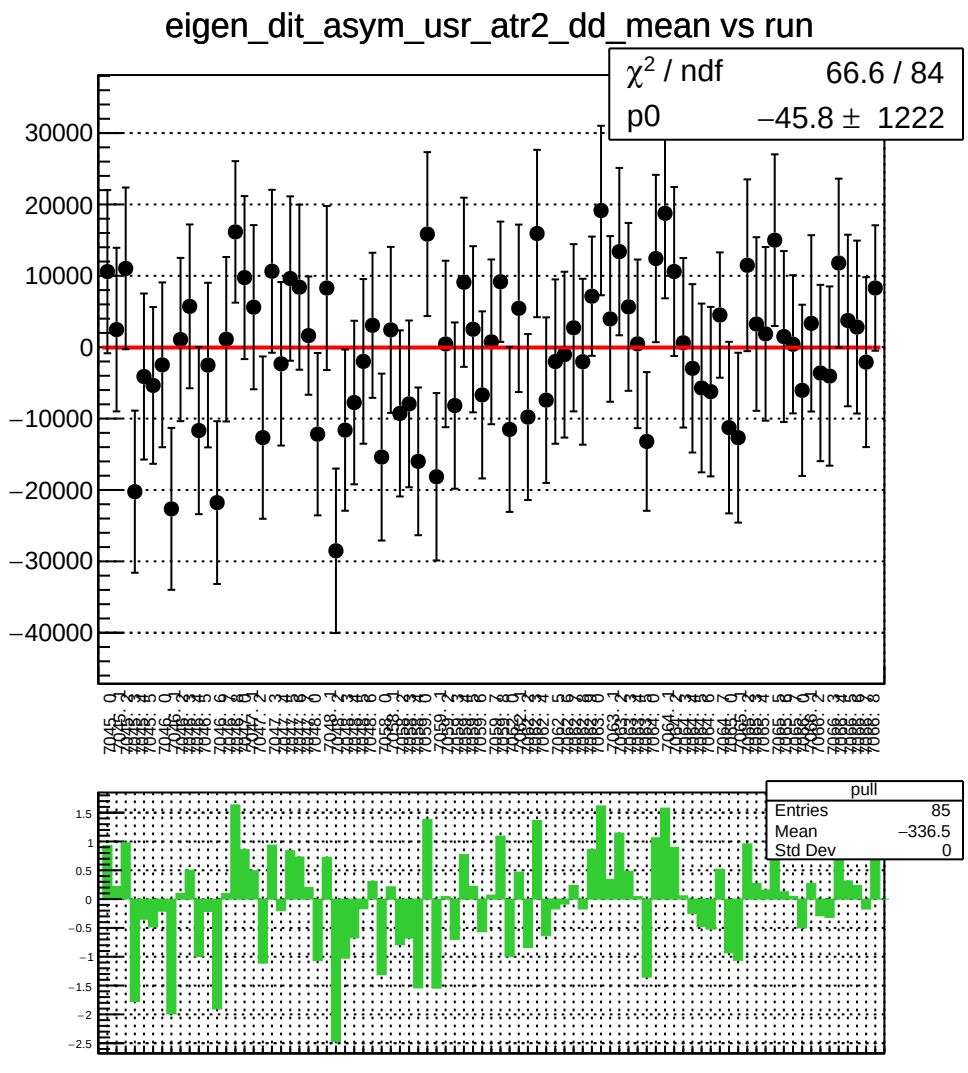

pull1D
Entries 85
Mean −0.01076
Std Dev 0.8851

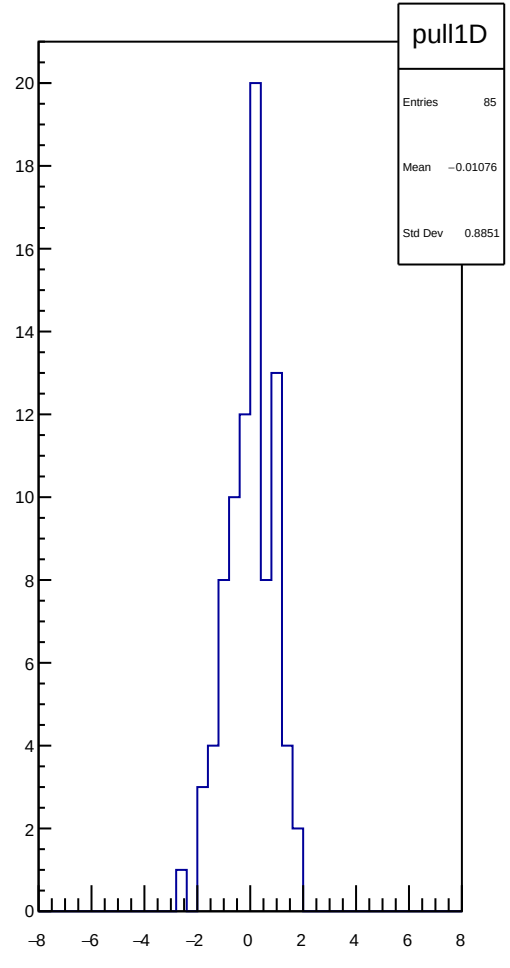

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 688 / 84
p0 1109 ± 0.8644
1200
1180
1160
1140
1120
1100
1080
1060

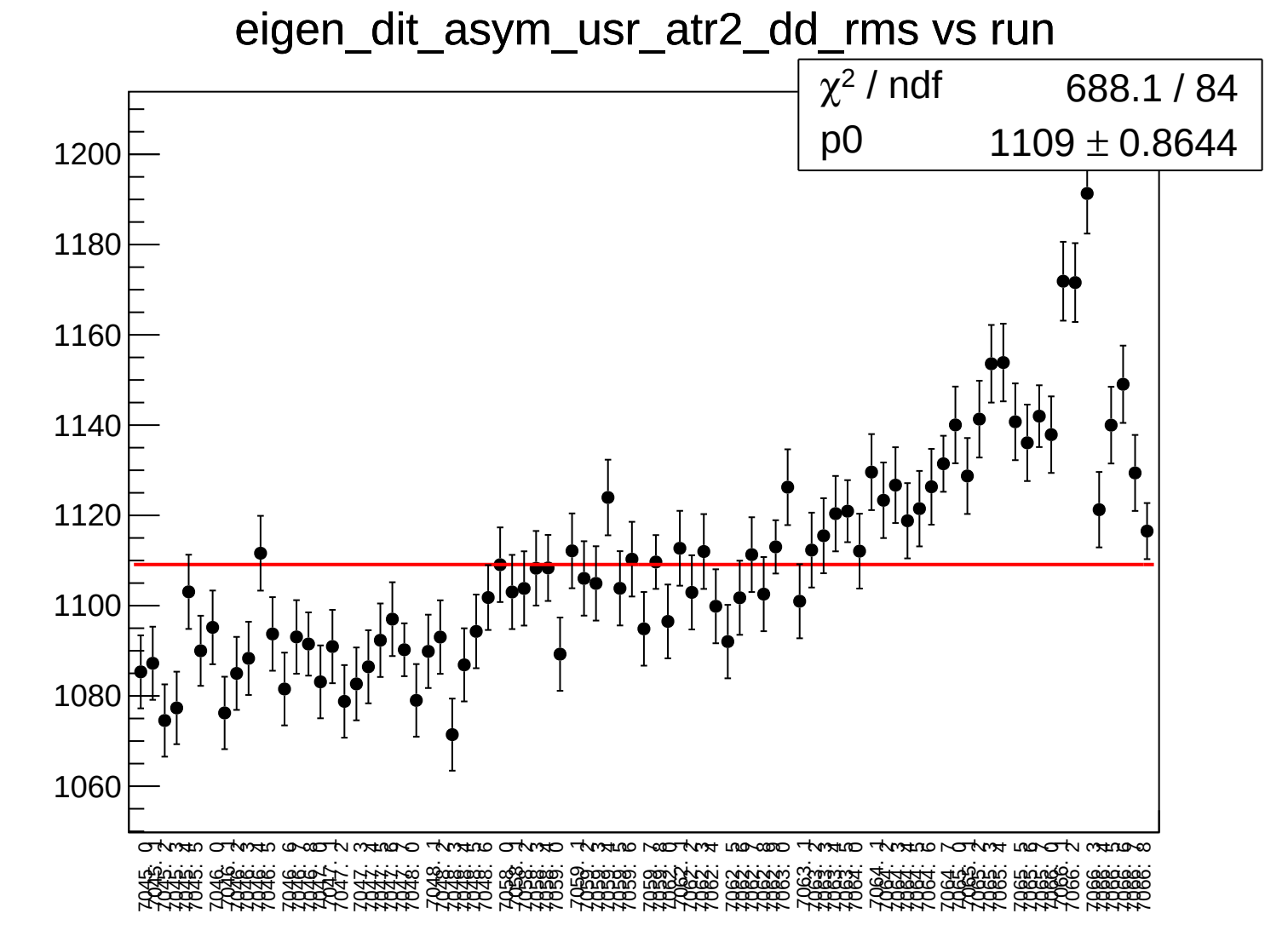

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.03 / 84
p0 2210 ± 4824
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 170.8
Std Dev 0
2
1
0
−1
−2

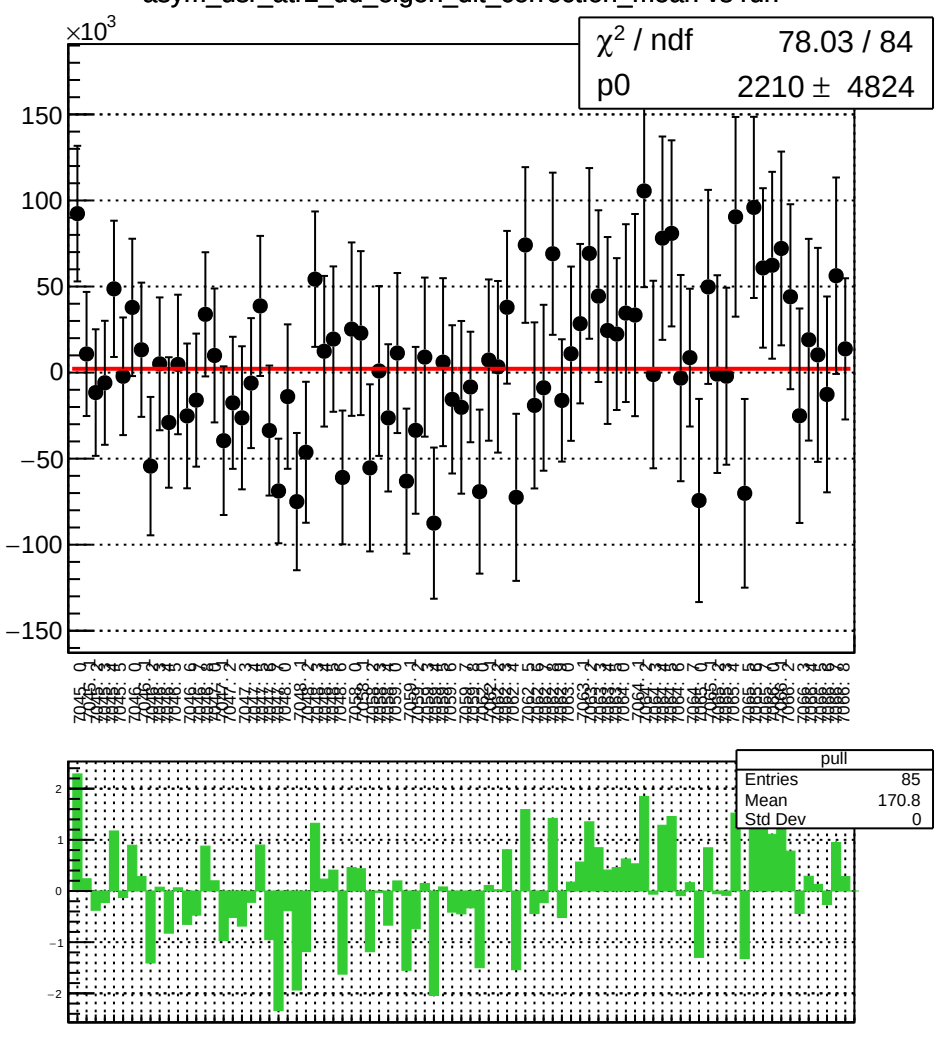

pull1D
Entries 85
Mean 0.04705
Std Dev 0.957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

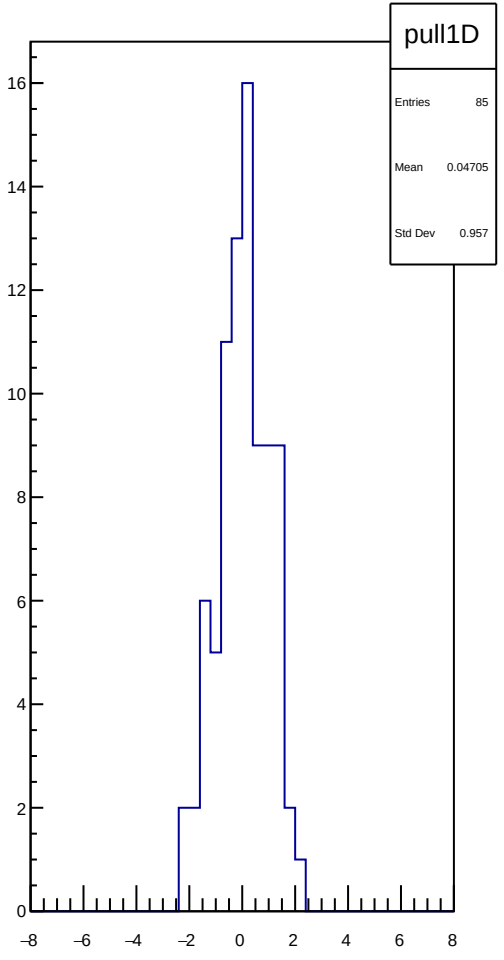

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3.587e+04 / 84
p0 4330 ± 3.411
6000
5500
5000
4500
4000
3500

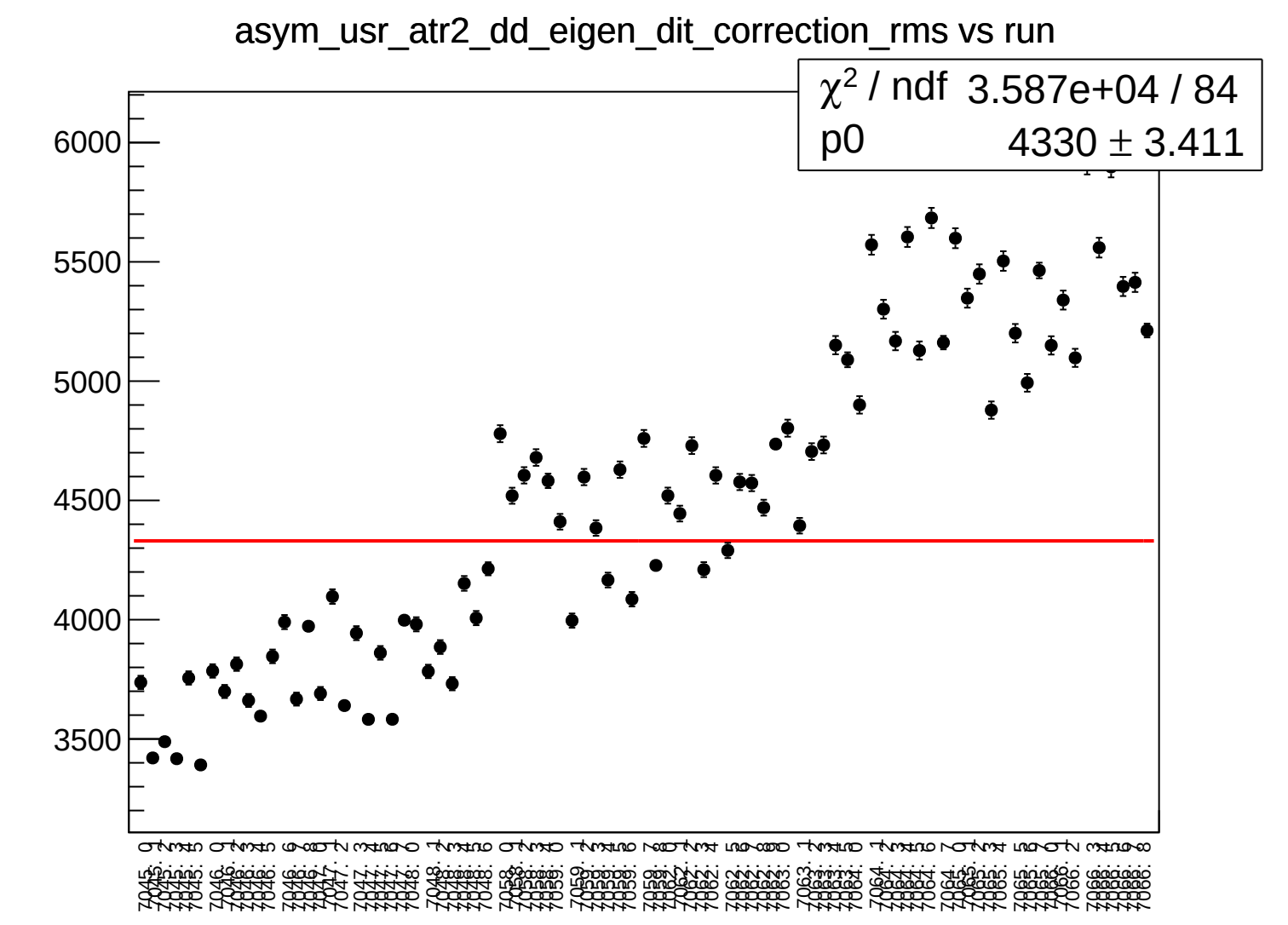

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 66.6 / 84
p0 −45.8 ± 1222
pull
Entries 85
Mean −336.5
Std Dev 0

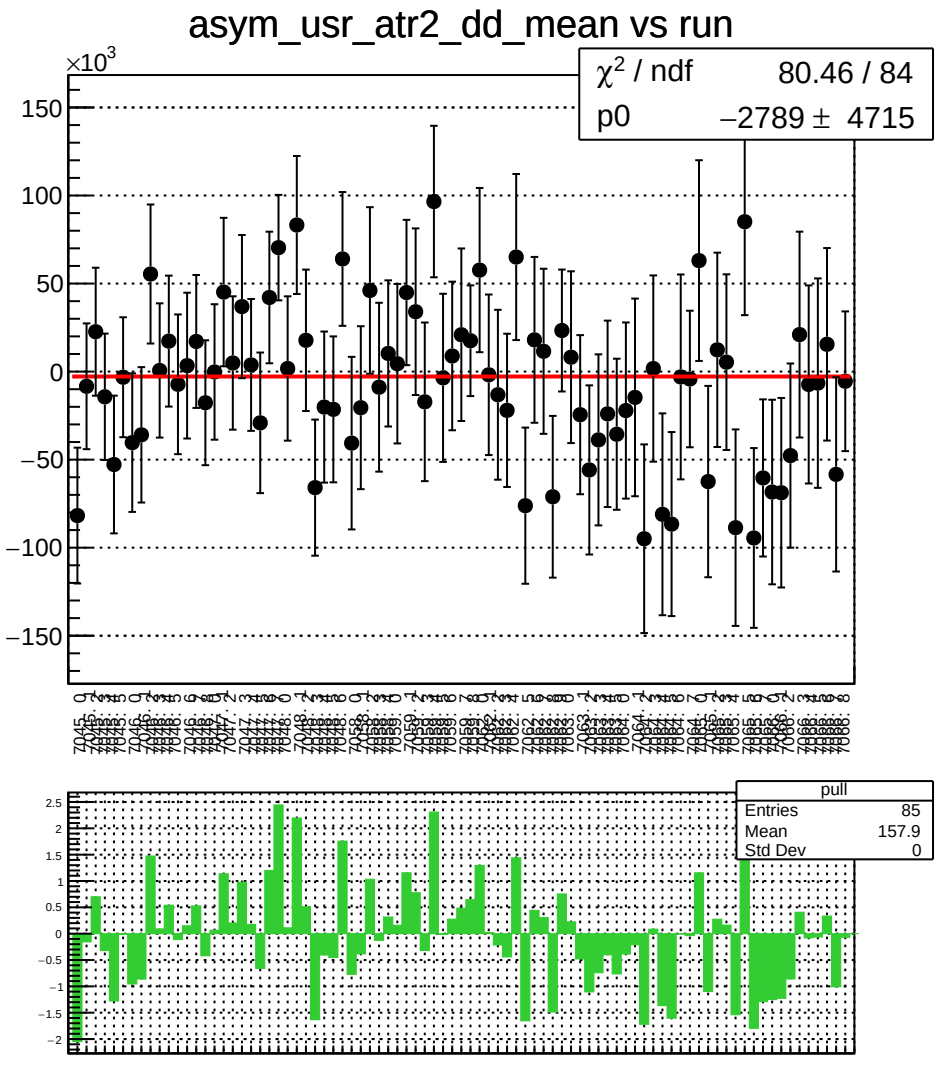

pull1D
Entries 85
Mean −0.01076
Std Dev 0.8851

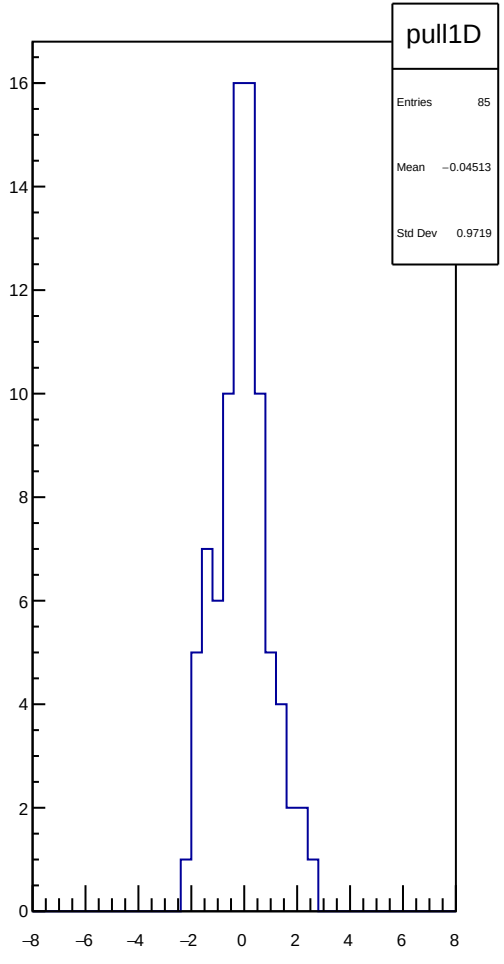

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 688.1 / 84
p0 1109 ± 0.8644
1200
1180
1160
1140
1120
1100
1080
1060

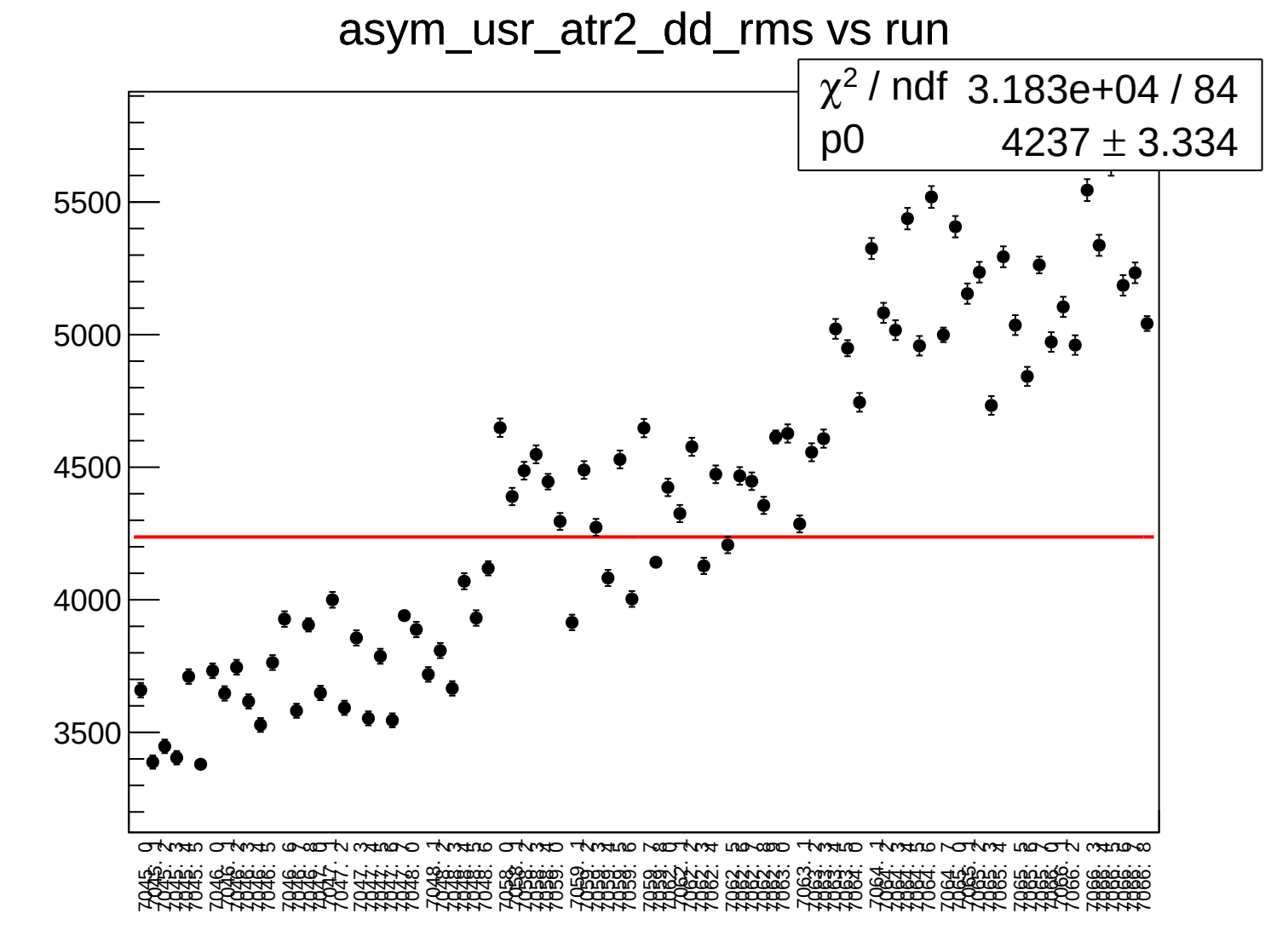

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.03 / 84
p0 2210 ± 4824
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 170.8
Std Dev 0
2
1
0
−1
−2

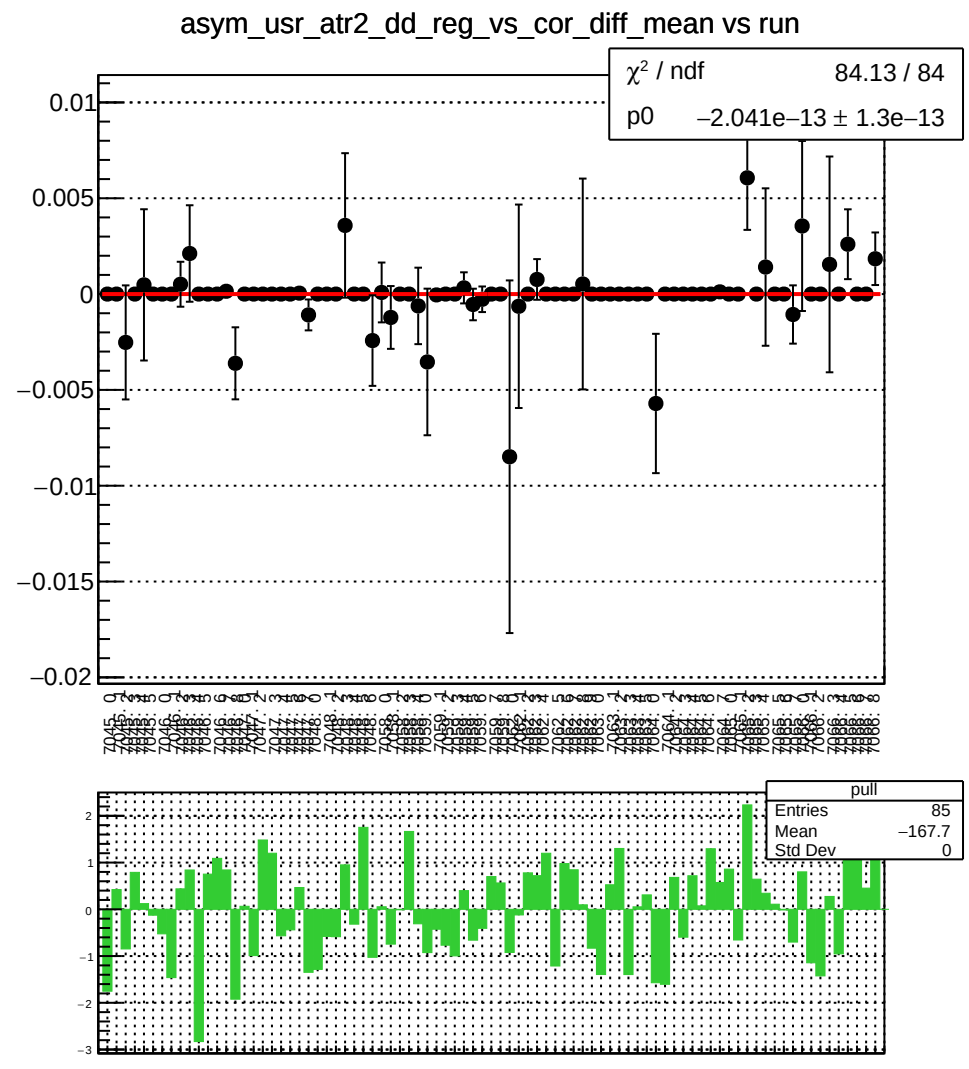

pull1D
Entries 85
Mean 0.04705
Std Dev 0.957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

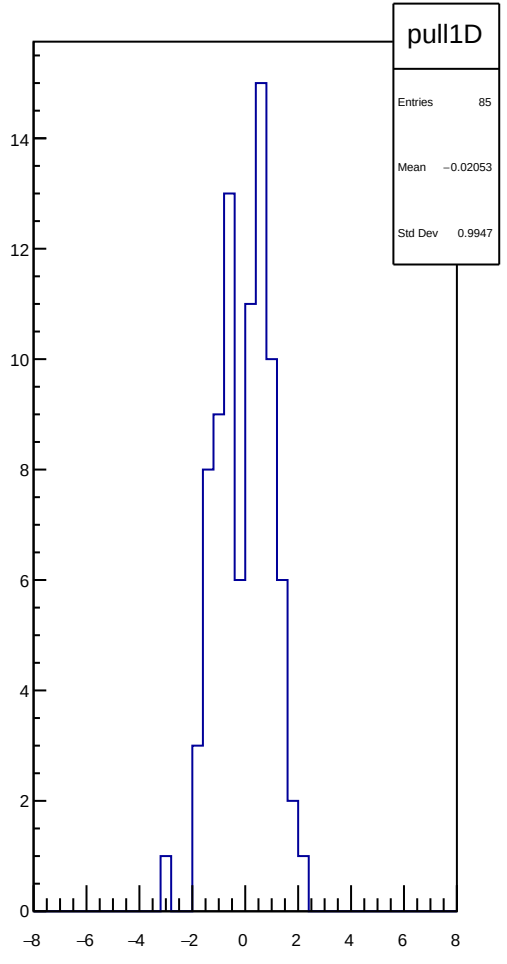

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.587e+04 / 84
p0 4330 ± 3.411
6000
5500
5000
4500
4000
3500

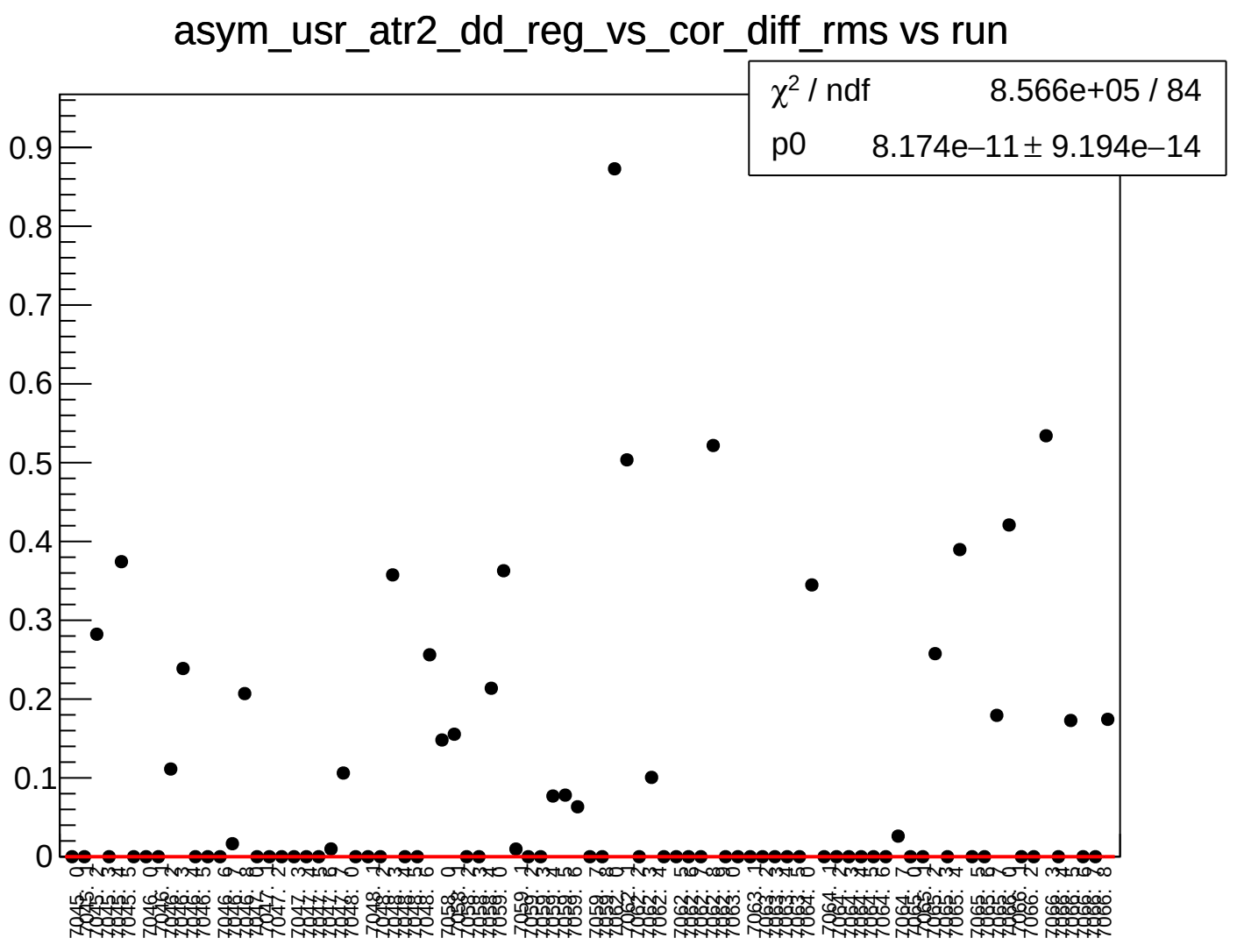

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 80.46 / 84
p0 −2789 ± 4715
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 157.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

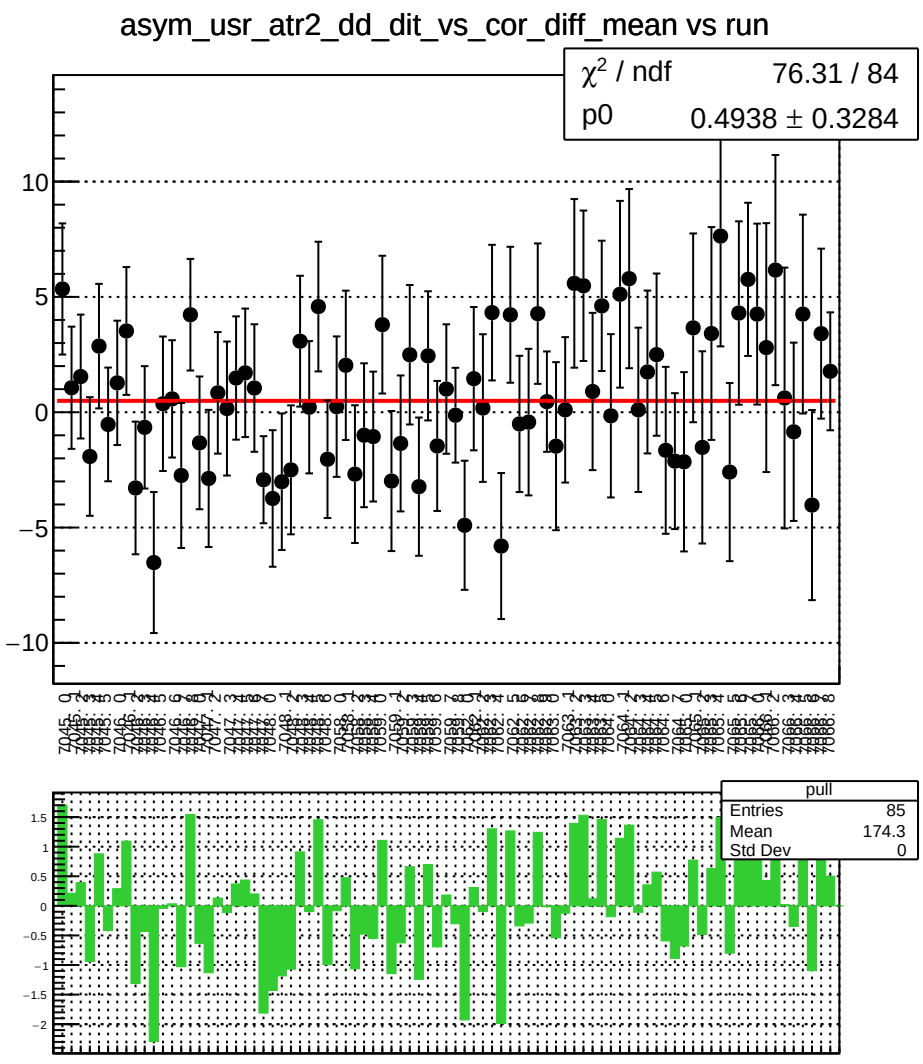

pull1D
Entries 85
Mean −0.04513
Std Dev 0.9719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

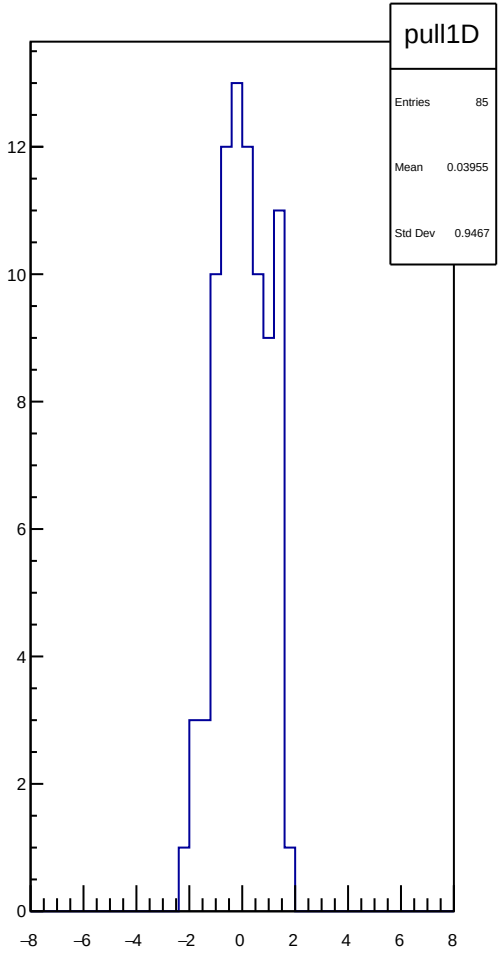

asym_usr_atr2_dd_rms vs run
χ² / ndf 3.183e+04 / 84
p0 4237 ± 3.334
5500
5000
4500
4000
3500

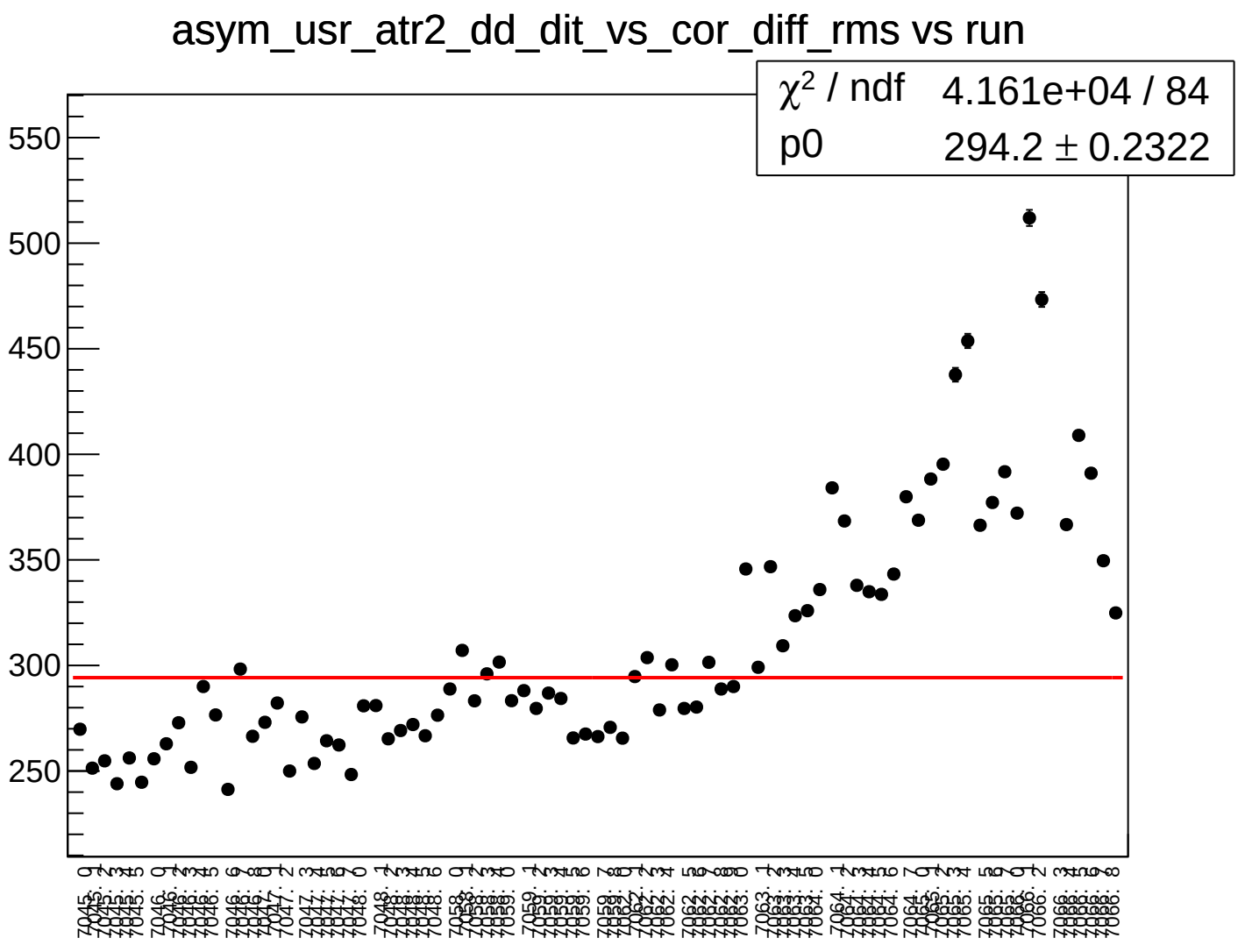

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 84
p0 −2.041e−13 ± 1.3e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 85
Mean −167.7
Std Dev 0
2
1
0
−1
−2
−3

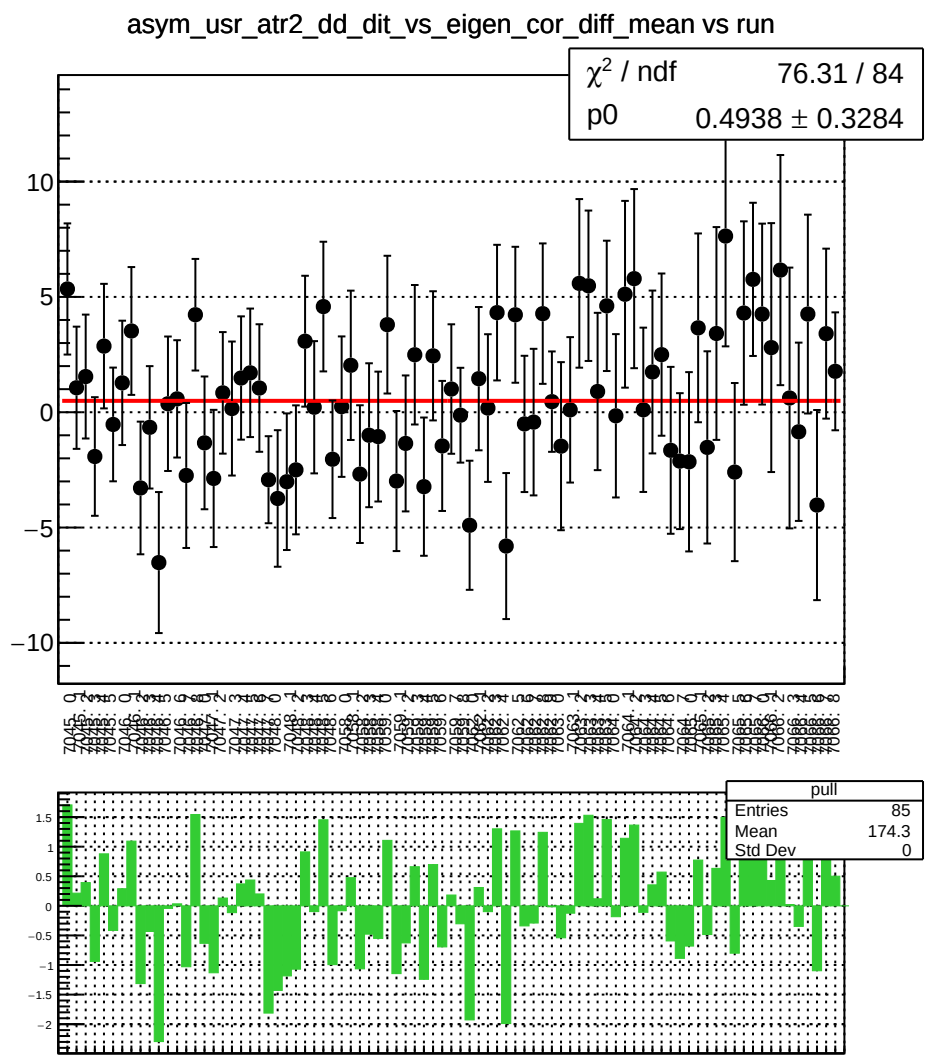

pull1D
Entries 85
Mean −0.02053
Std Dev 0.9947
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

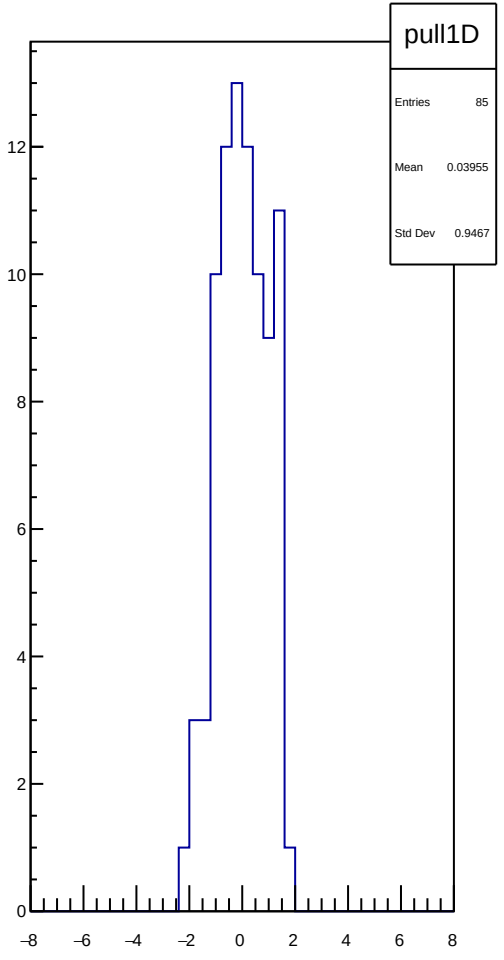

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.566e+05 / 84
p0 8.174e−11 ± 9.194e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

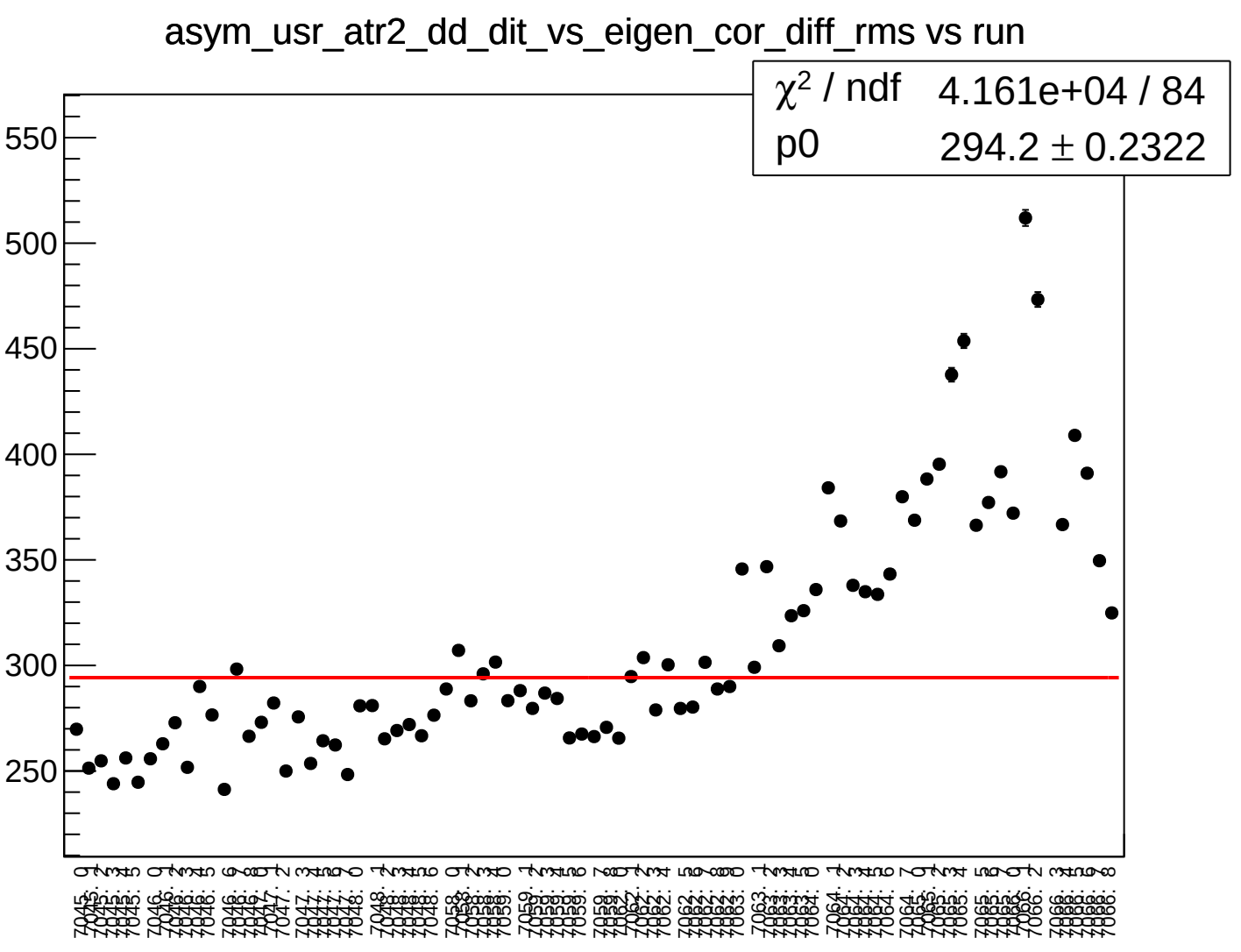

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 84
p0 0.4938 ± 0.3284
pull
Entries 85
Mean 174.3
Std Dev 0

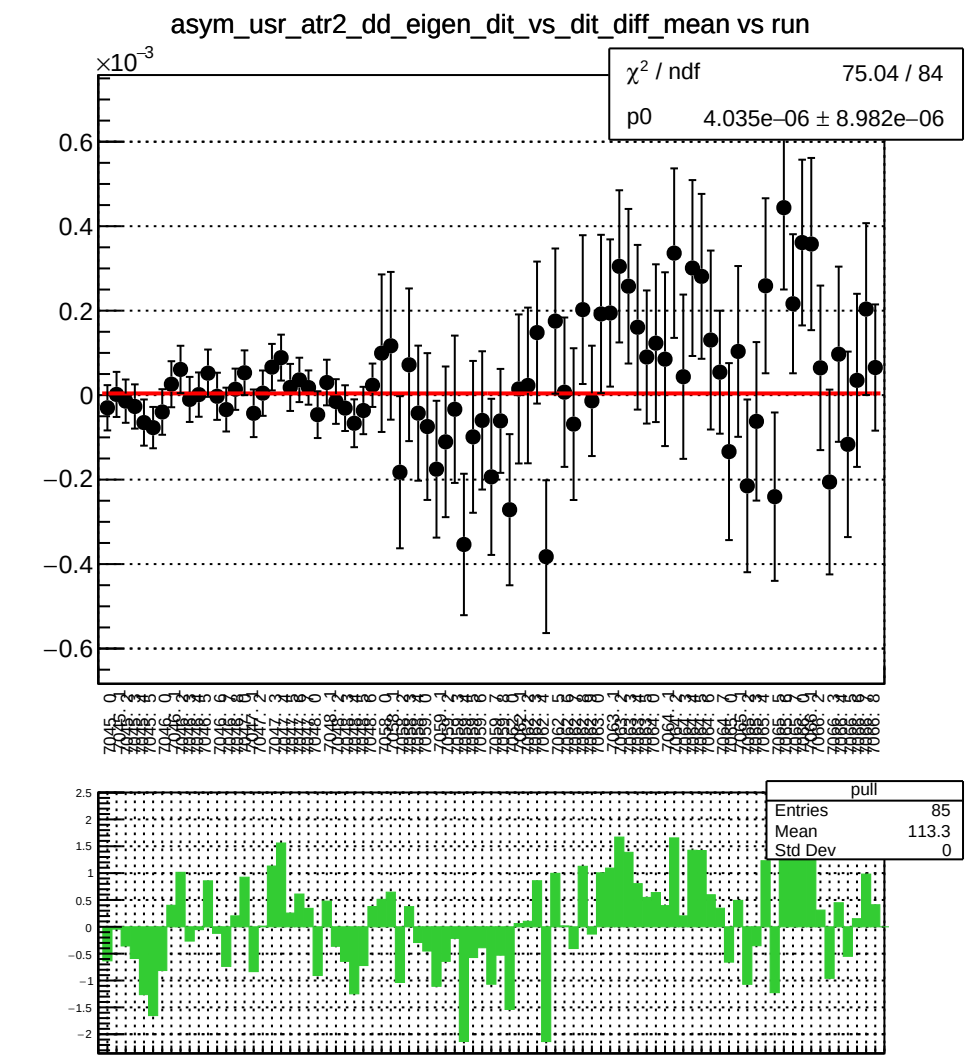

pull1D
Entries 85
Mean 0.03955
Std Dev 0.9467

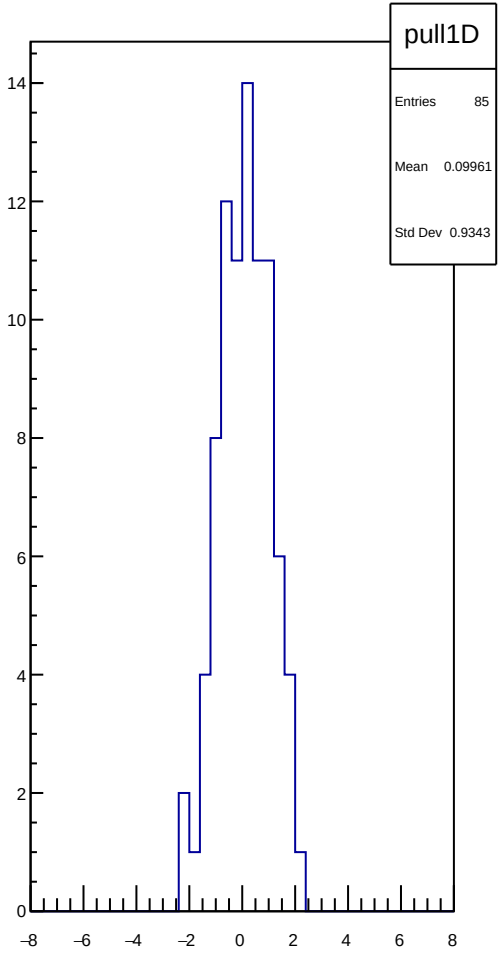

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.161e+04 / 84
p0 294.2 ± 0.2322
550
500
450
400
350
300
250

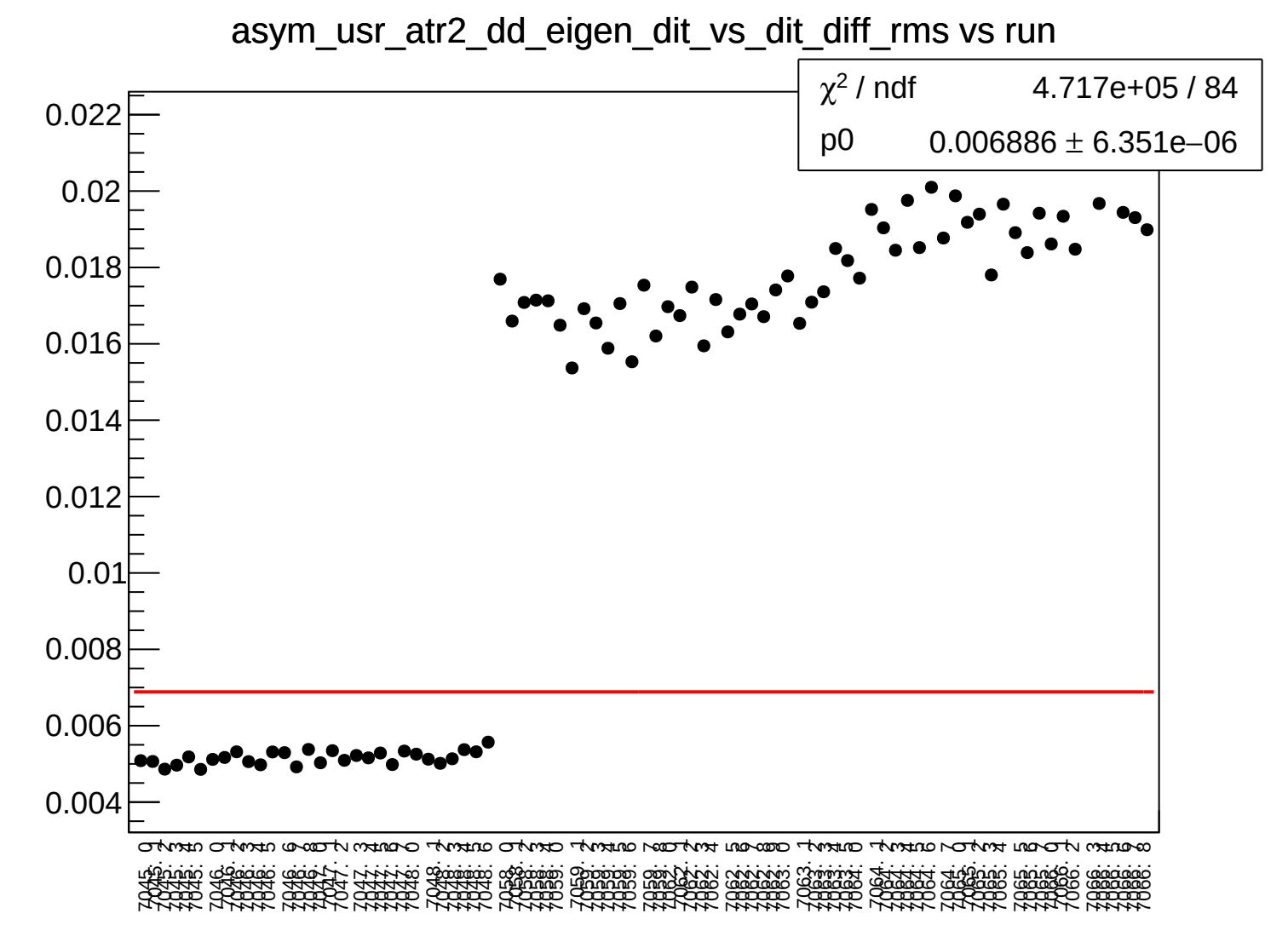

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 84
p0 0.4938 ± 0.3284
pull
Entries 85
Mean 174.3
Std Dev 0

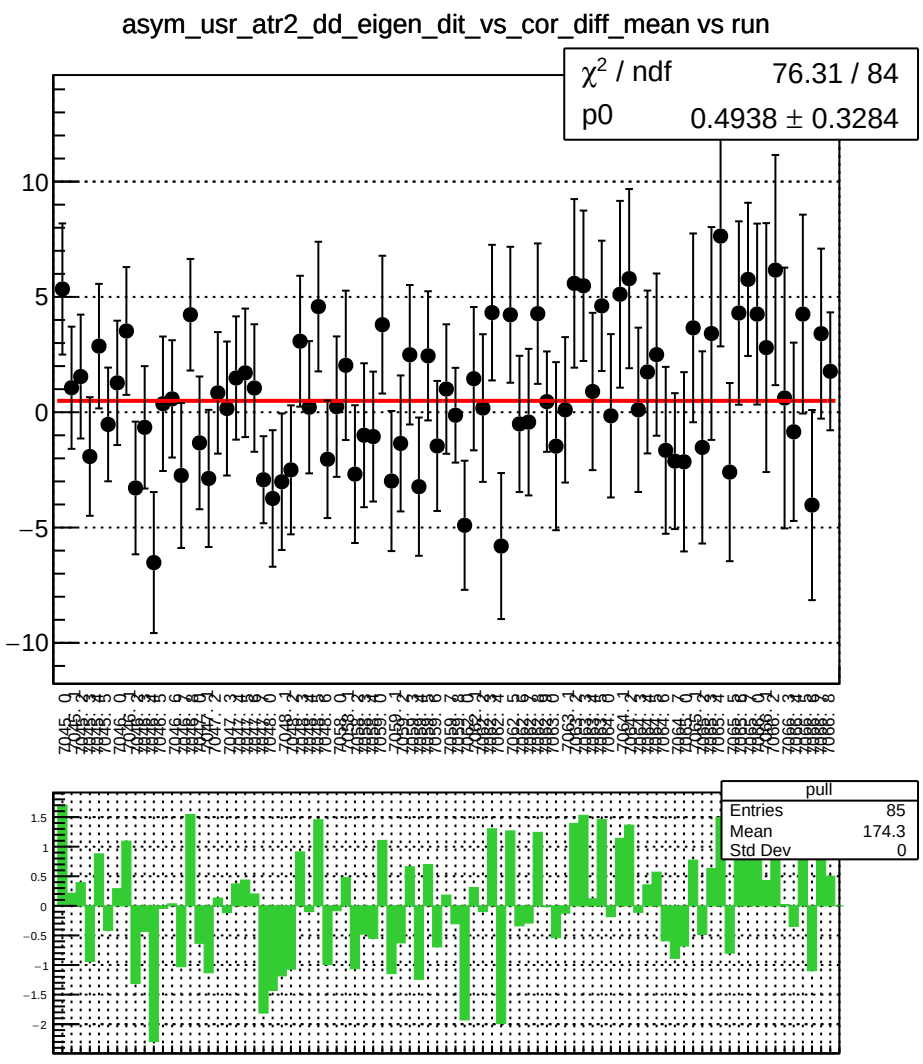

pull1D
Entries 85
Mean 0.03955
Std Dev 0.9467

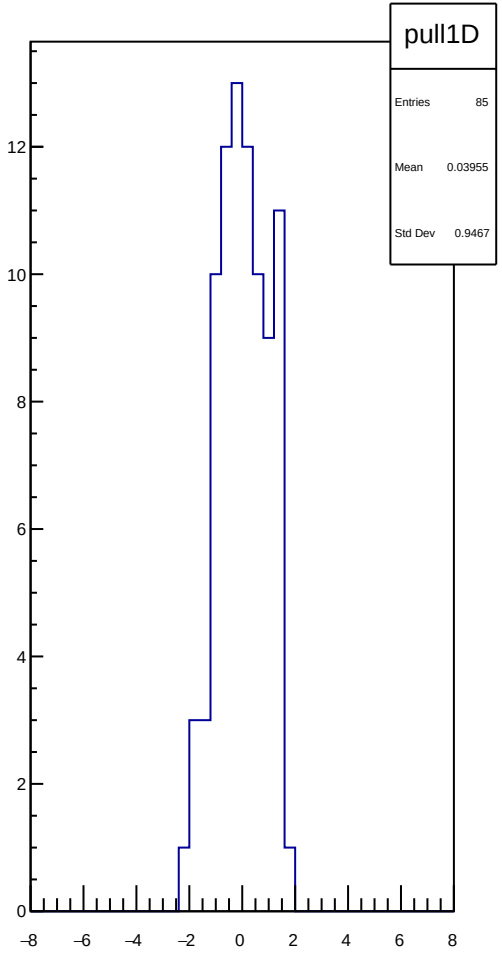

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.161e+04 / 84
p0 294.2 ± 0.2322
550
500
450
400
350
300
250

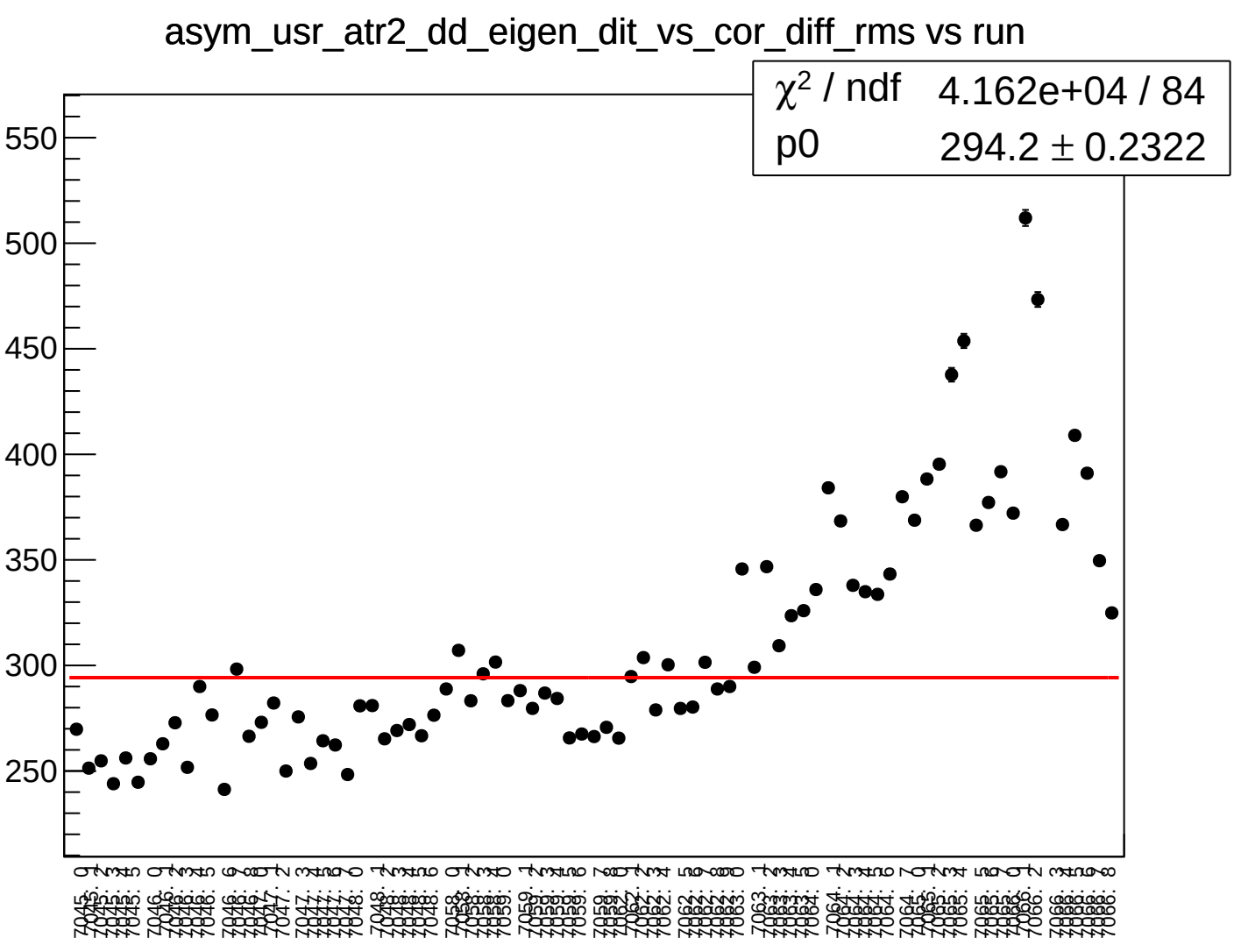

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.04 / 84
p0 4.035e−06 ± 8.982e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 85
Mean 113.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

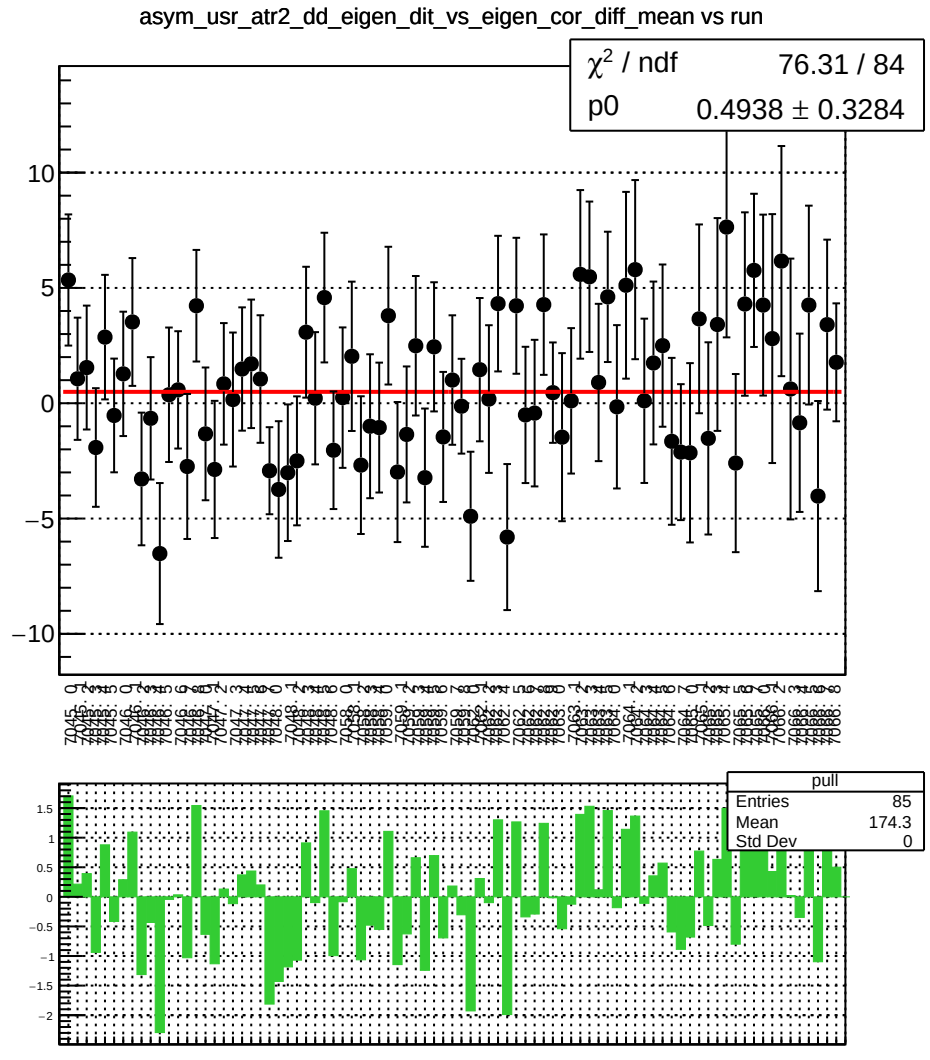

pull1D
Entries 85
Mean 0.09961
Std Dev 0.9343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

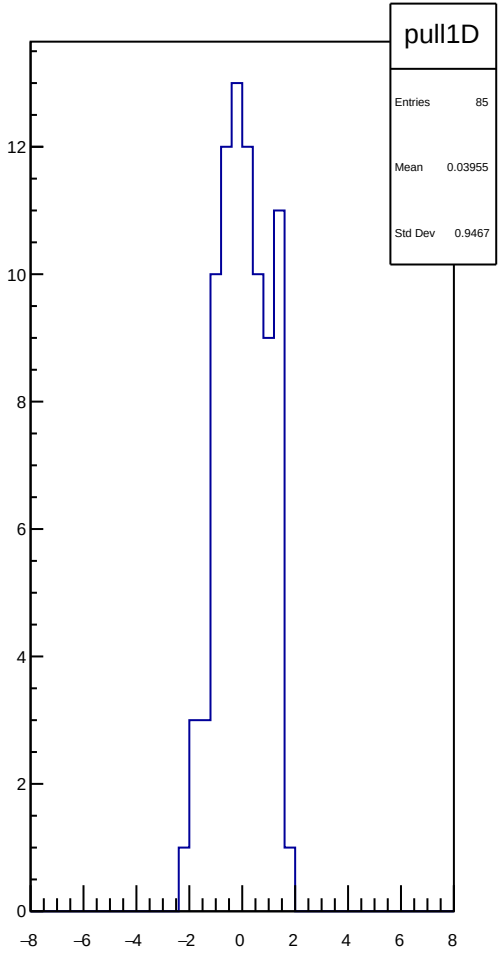

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.717e+05 / 84
p0 0.006886 ± 6.351e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

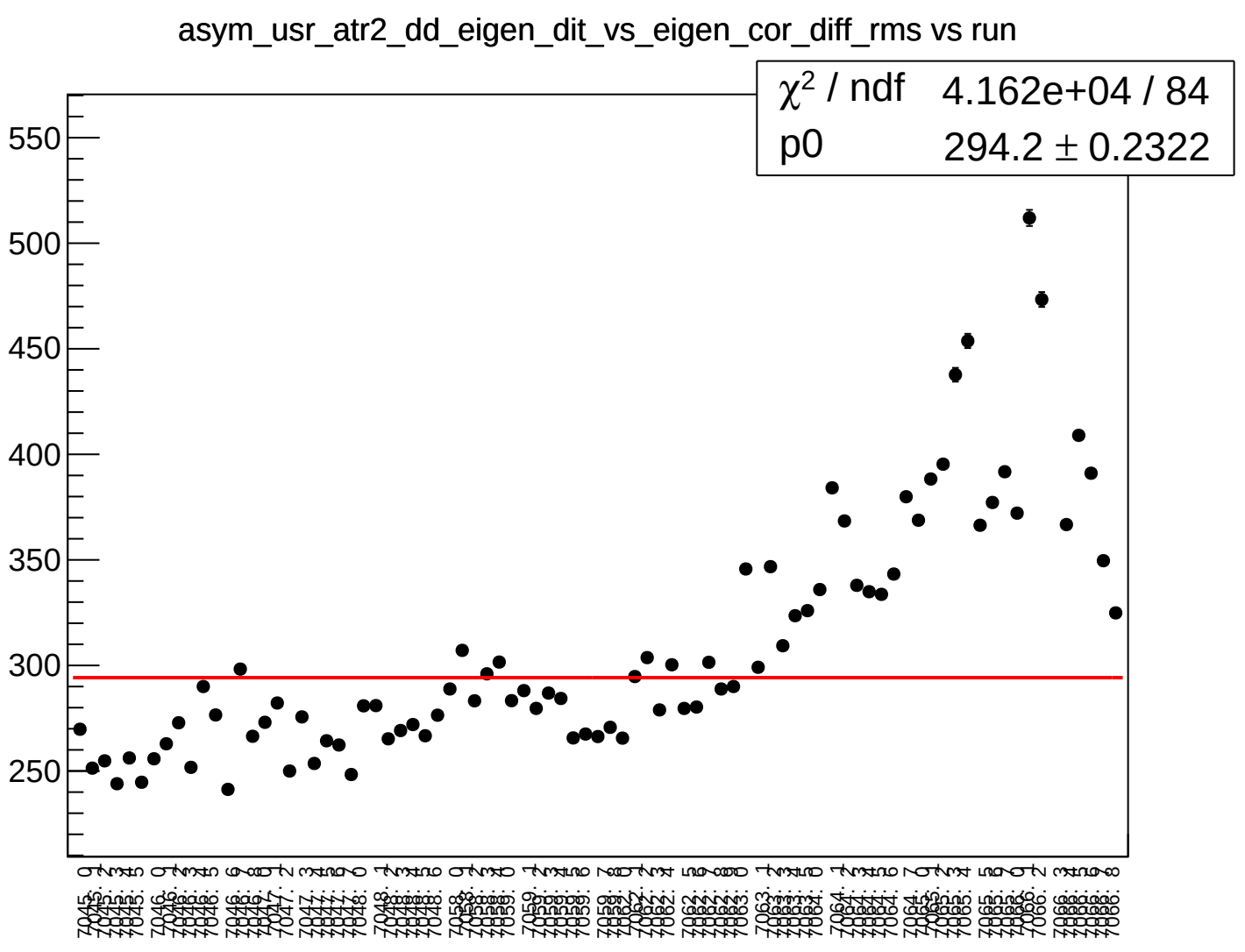

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 84
p0 0.4938 ± 0.3284
pull
Entries 85
Mean 174.3
Std Dev 0

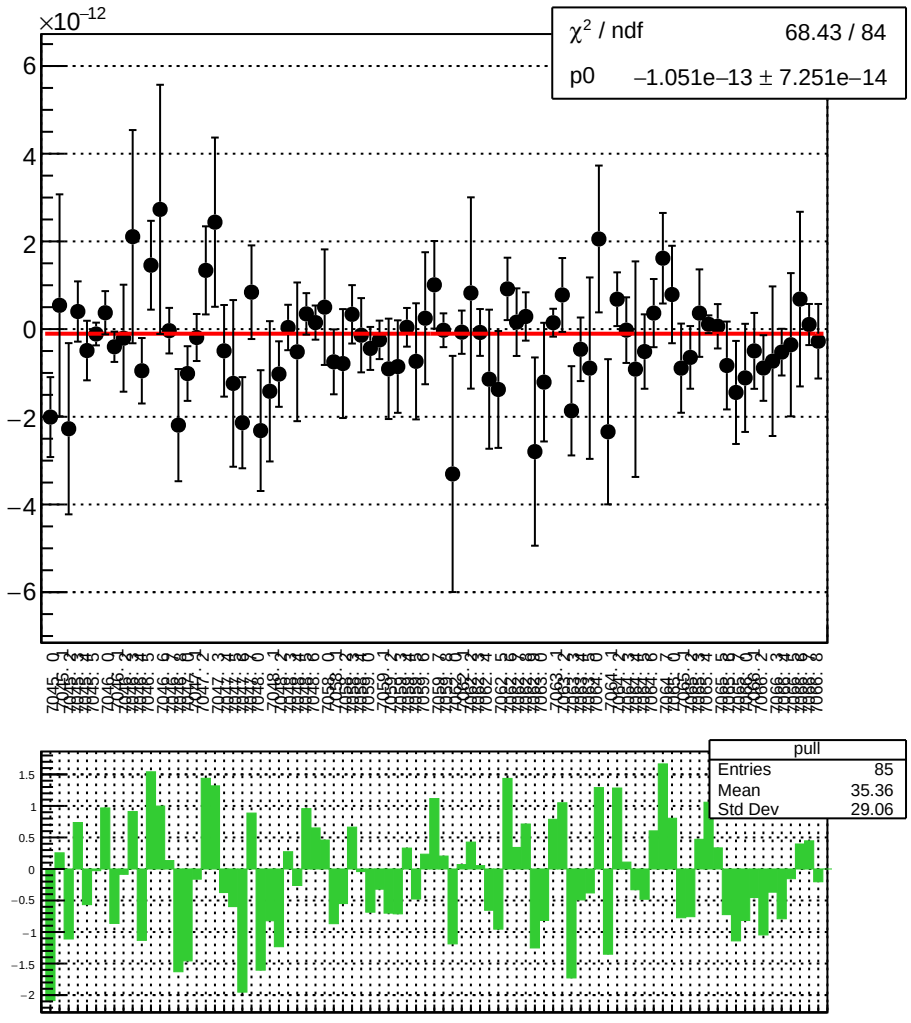

pull1D
Entries 85
Mean 0.03955
Std Dev 0.9467

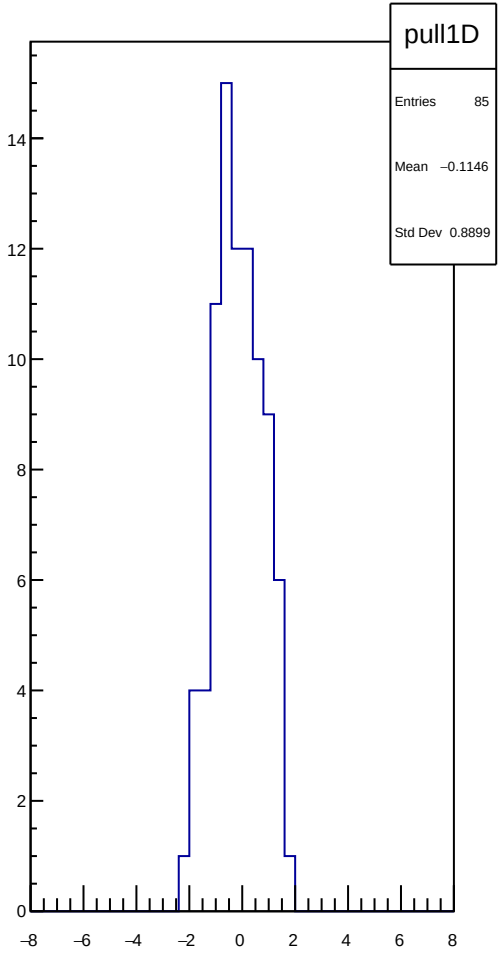

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 84
p0 294.2 ± 0.2322
550
500
450
400
350
300
250

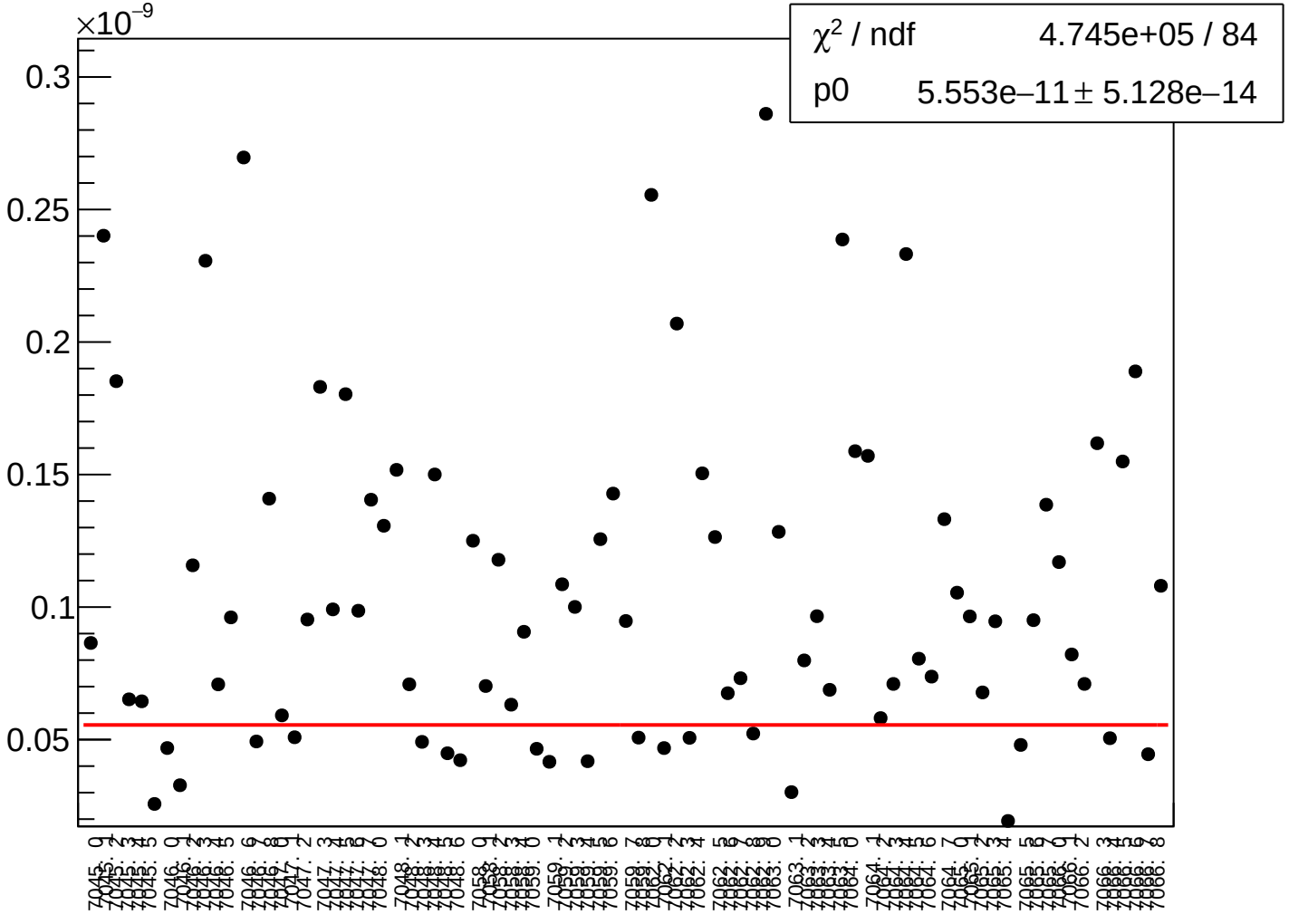

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 84
p0 0.4938 ± 0.3284
pull
Entries 85
Mean 174.3
Std Dev 0

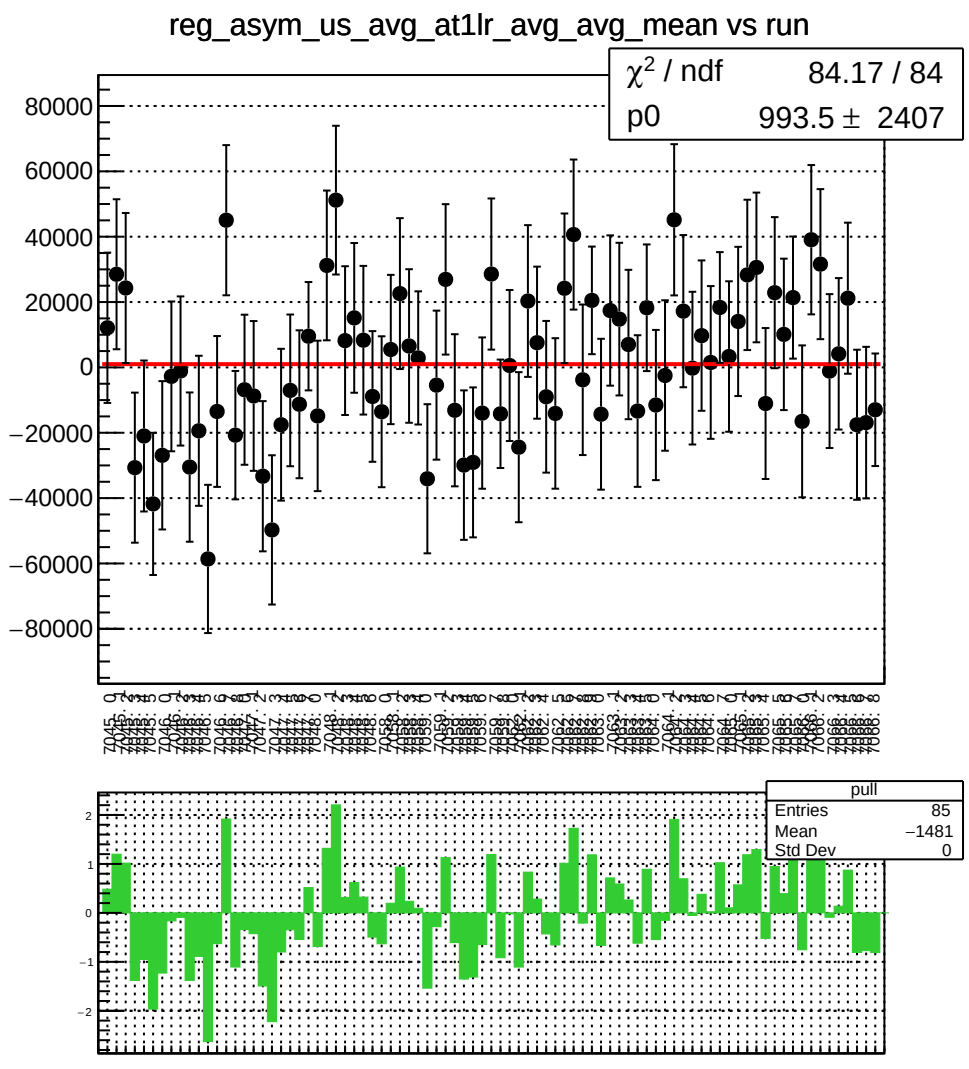

pull1D
Entries 85
Mean 0.03955
Std Dev 0.9467

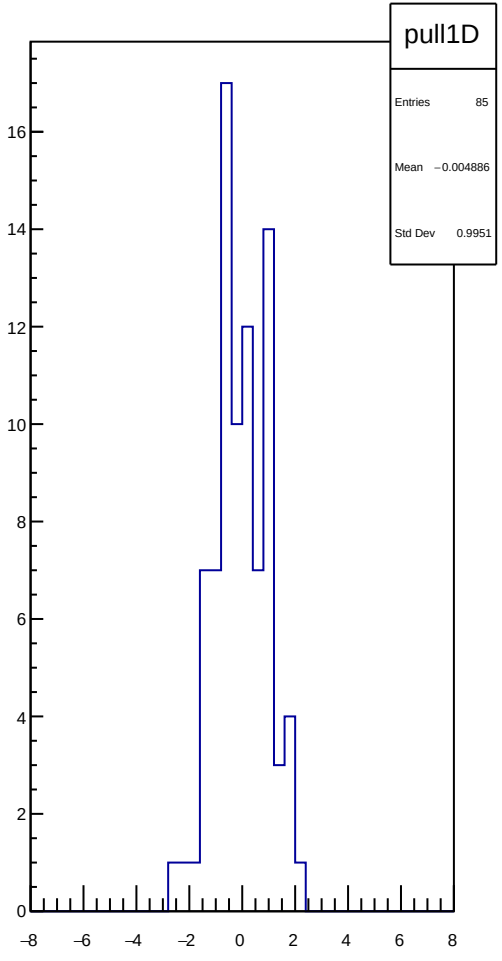

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 84
p0 294.2 ± 0.2322
550
500
450
400
350
300
250

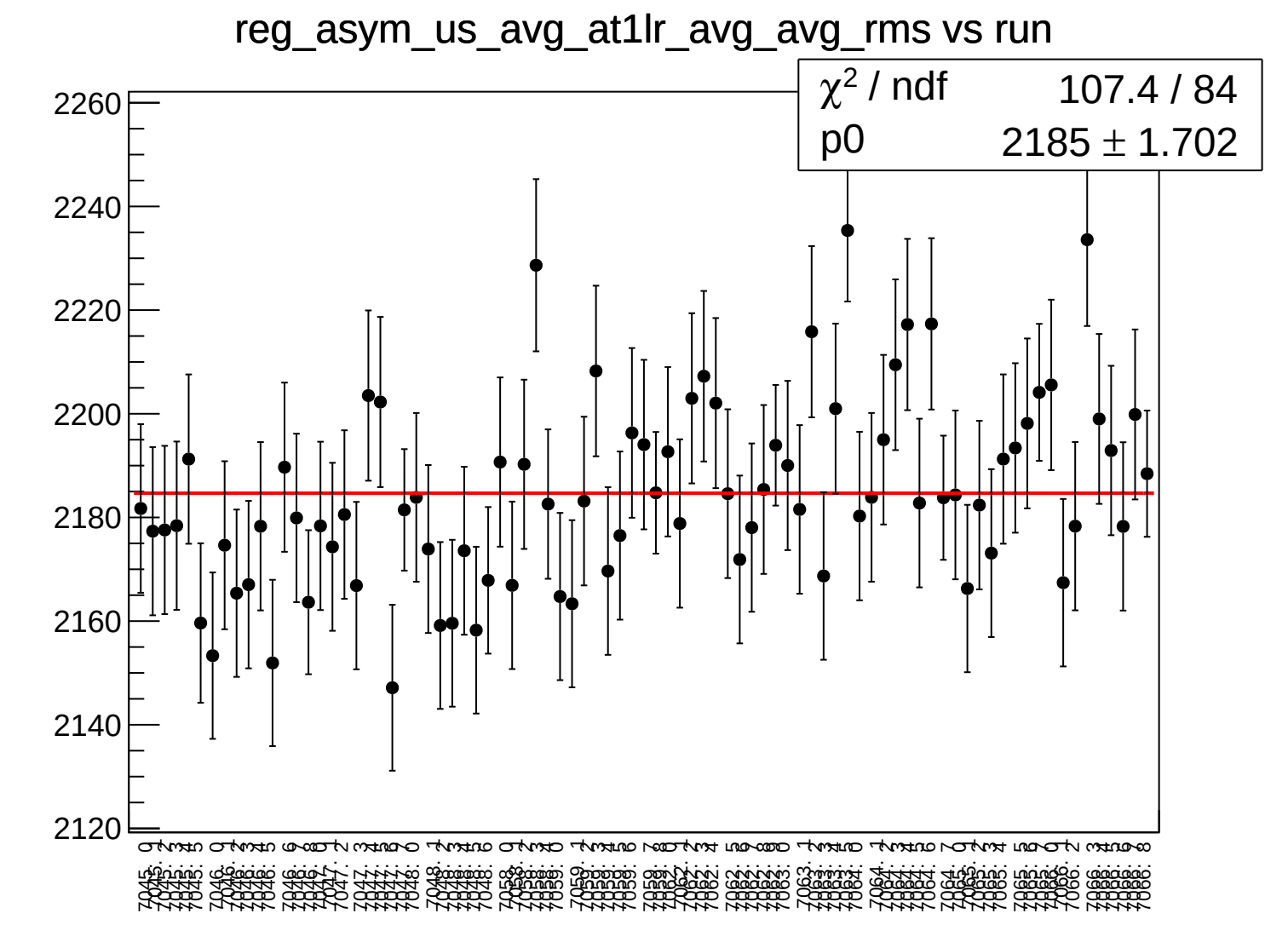

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.43 / 84
p0 −1.051e−13 ± 7.251e−14
pull
Entries 85
Mean 35.36
Std Dev 29.06

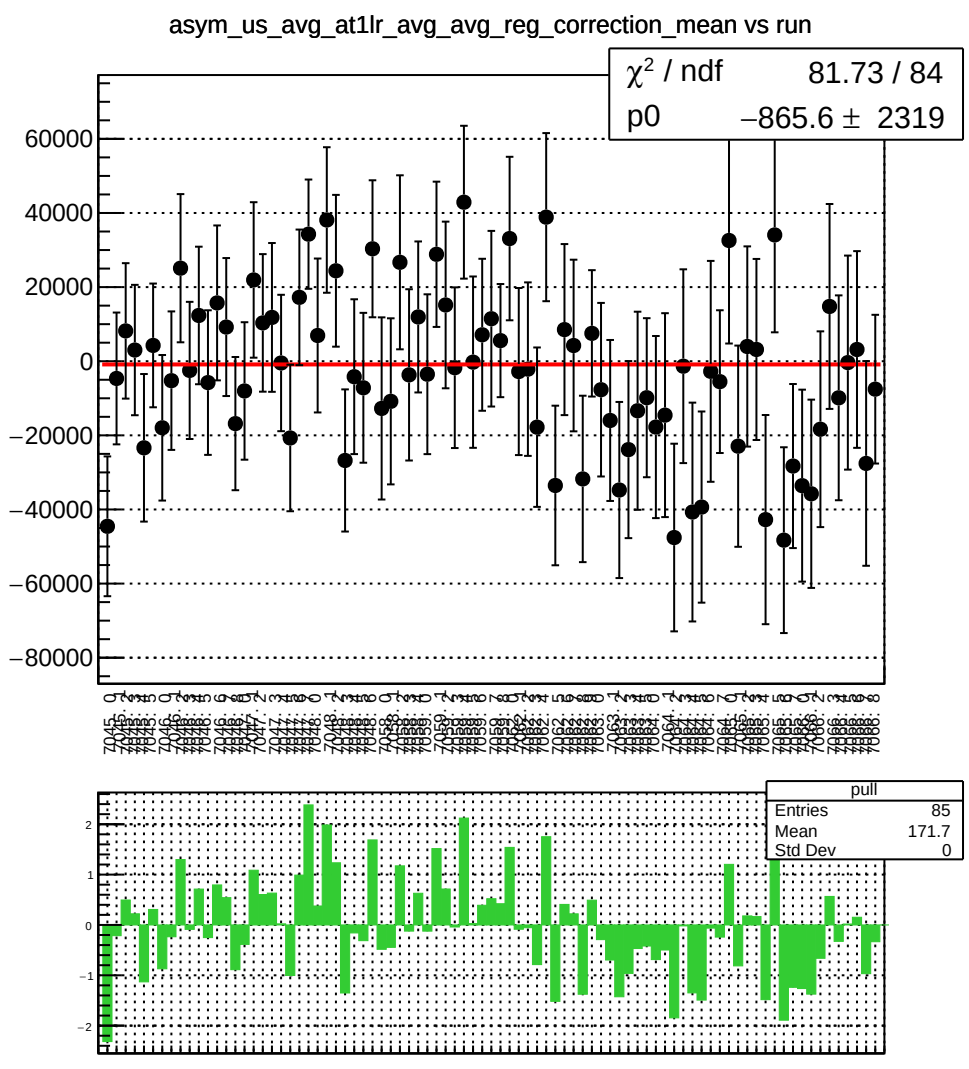

pull1D
Entries 85
Mean −0.1146
Std Dev 0.8899

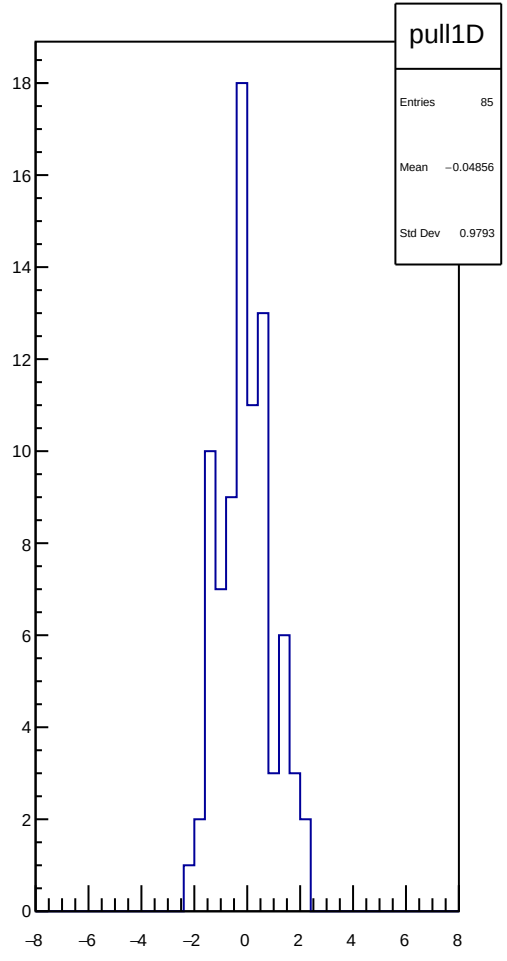

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.745e+05 / 84
p0 5.553e−11 ± 5.128e−14
0.3
0.25
0.2
0.15
0.1
0.05

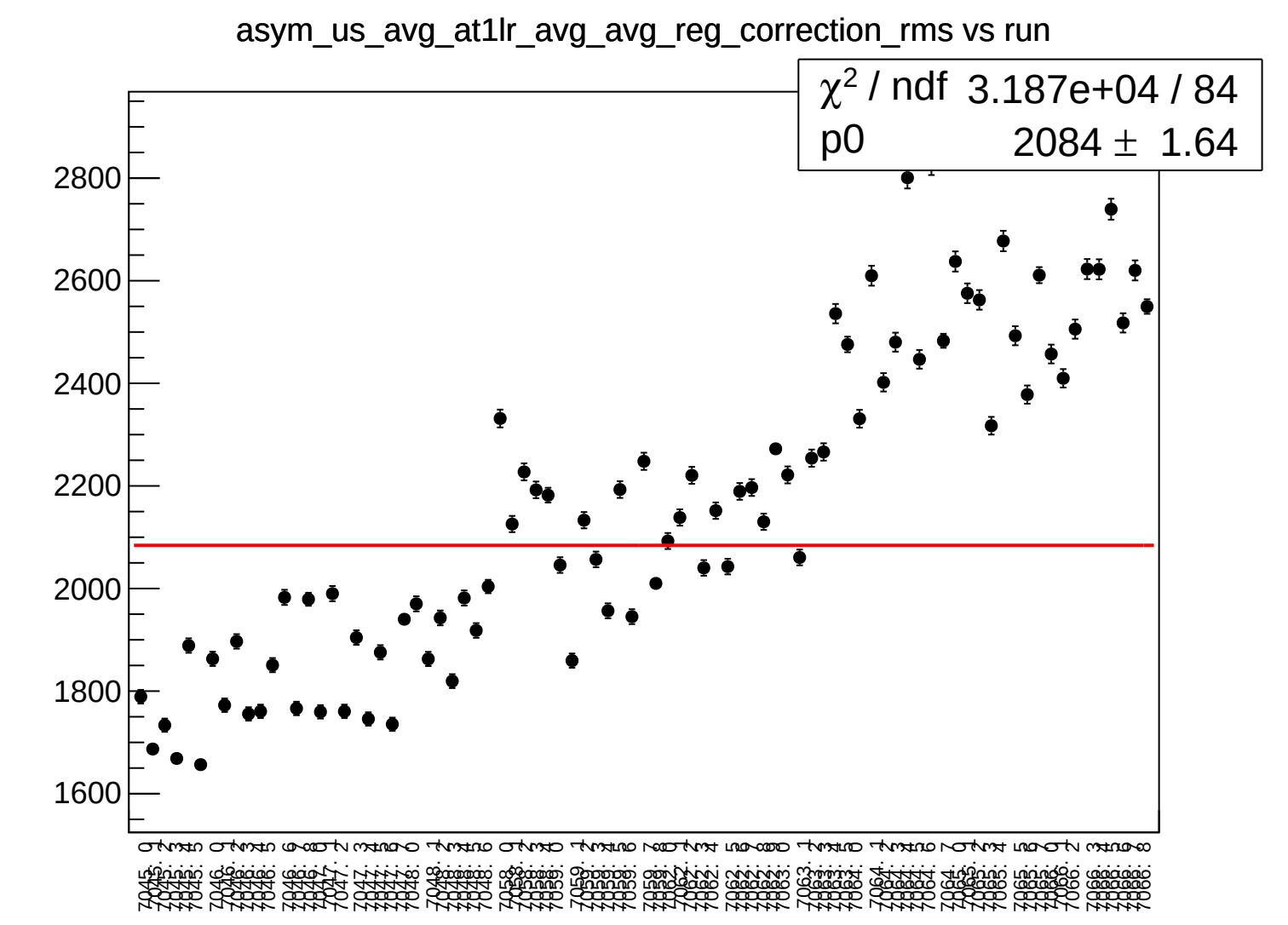

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 84.17 / 84
p0 993.5 ± 2407
pull
Entries 85
Mean −1481
Std Dev 0

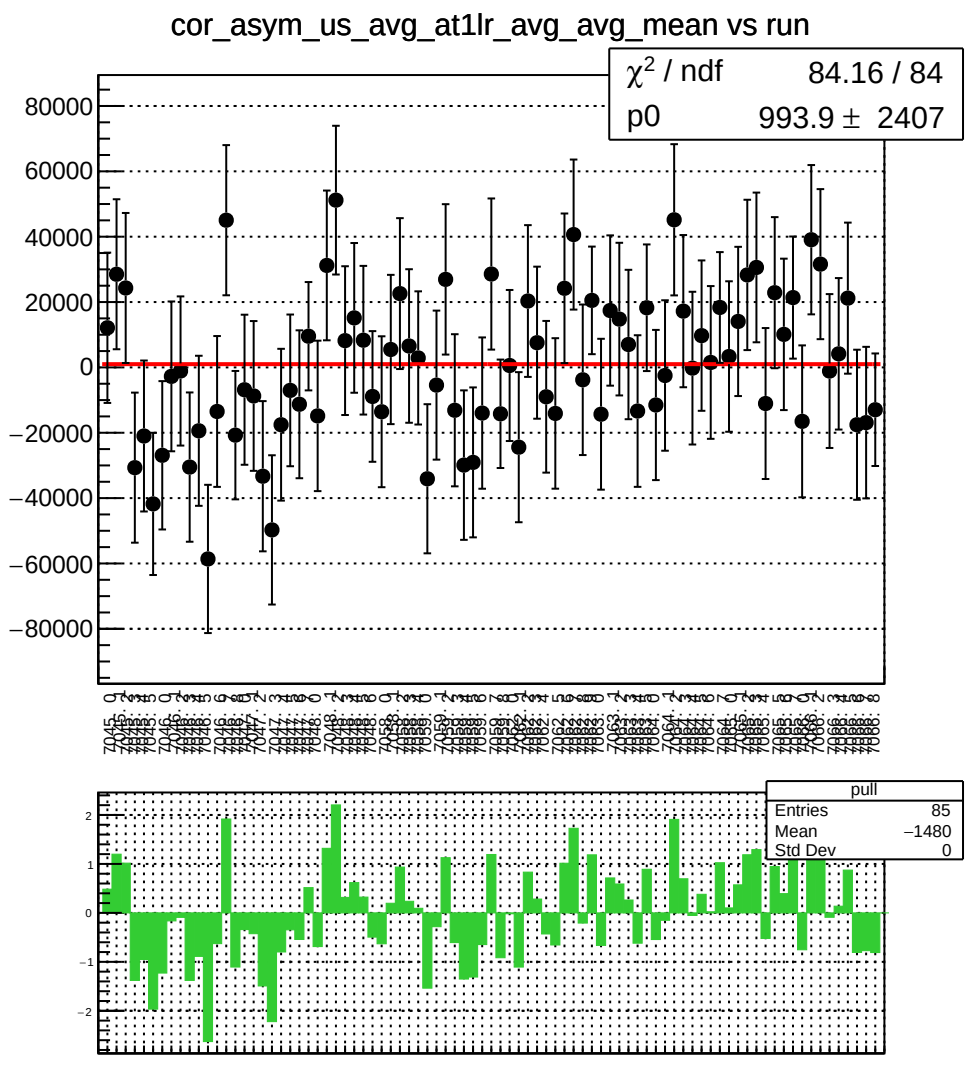

pull1D
Entries 85
Mean −0.004886
Std Dev 0.9951

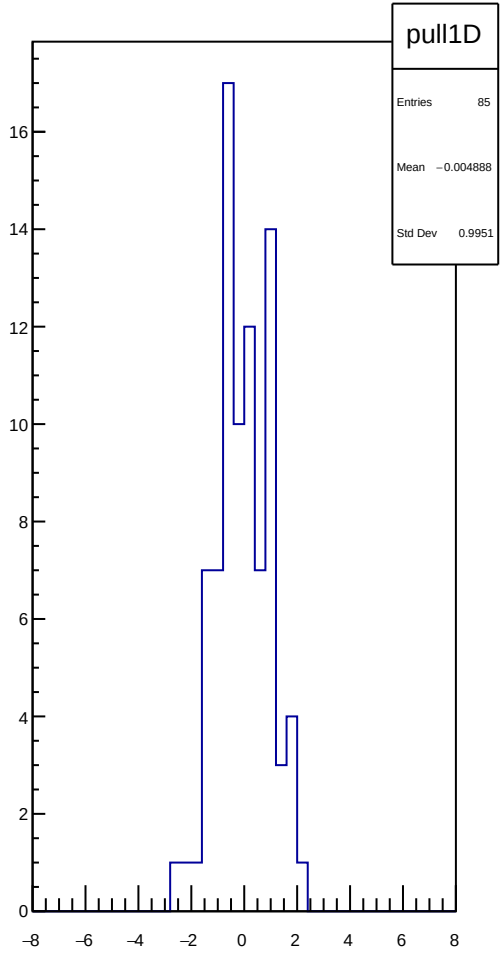

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 107.4 / 84
p0 2185 ± 1.702
2260
2240
2220
2200
2180
2160
2140
2120

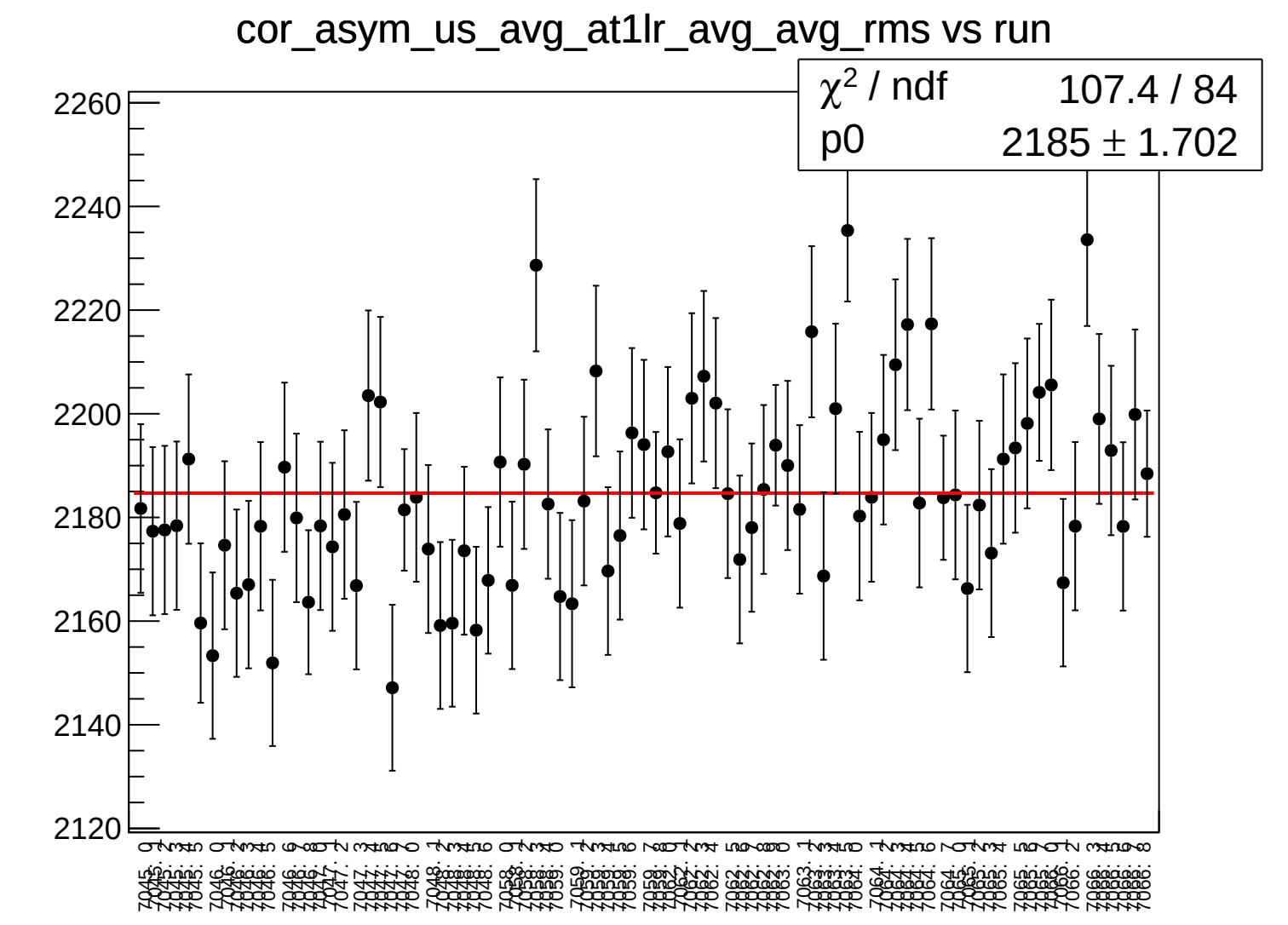

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 81.73 / 84
p0 −865.6 ± 2319
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 171.7
Std Dev 0
2
1
0
−1
−2

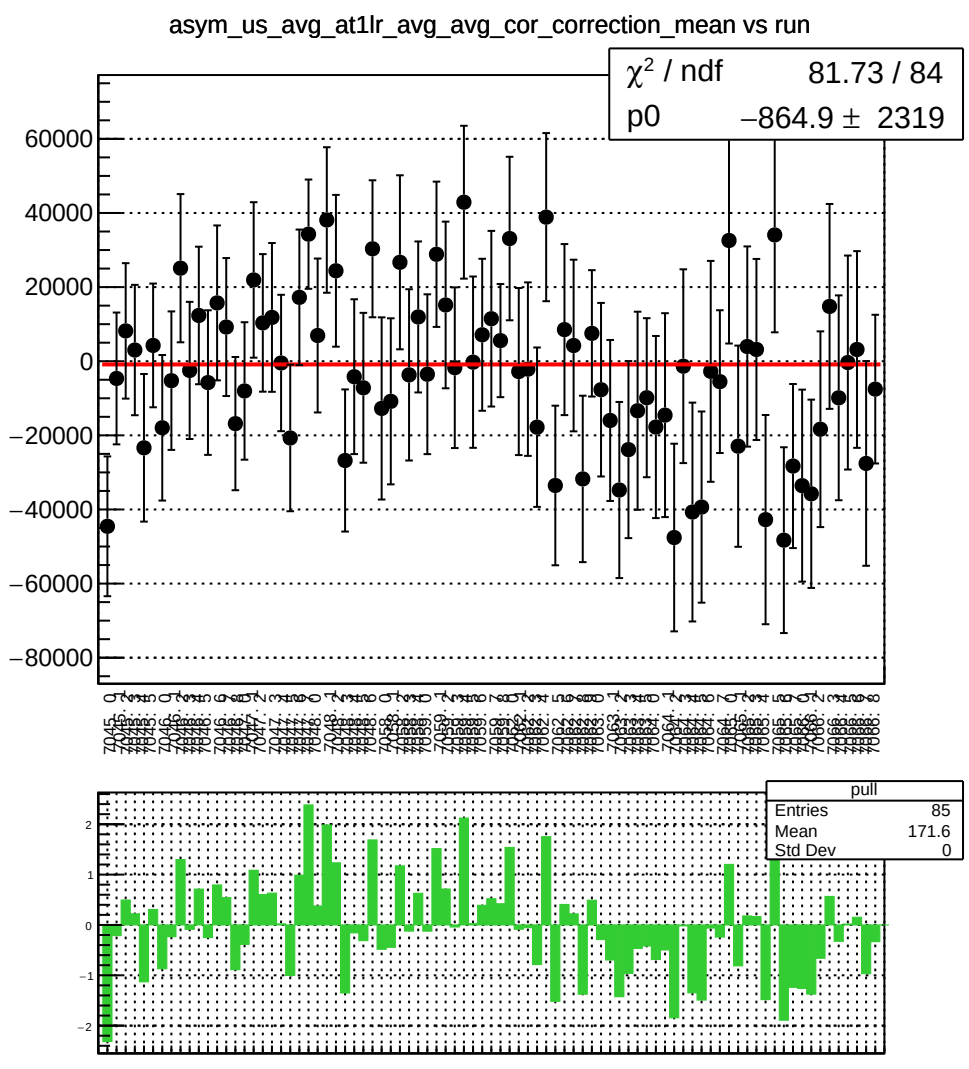

pull1D
Entries 85
Mean −0.04856
Std Dev 0.9793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

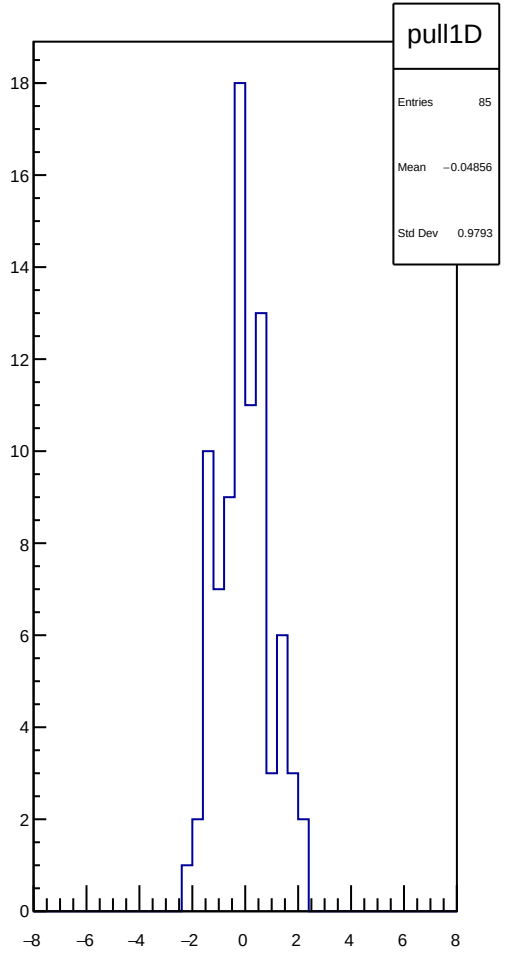

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.187e+04 / 84
p0 2084 ± 1.64
2800
2600
2400
2200
2000
1800
1600

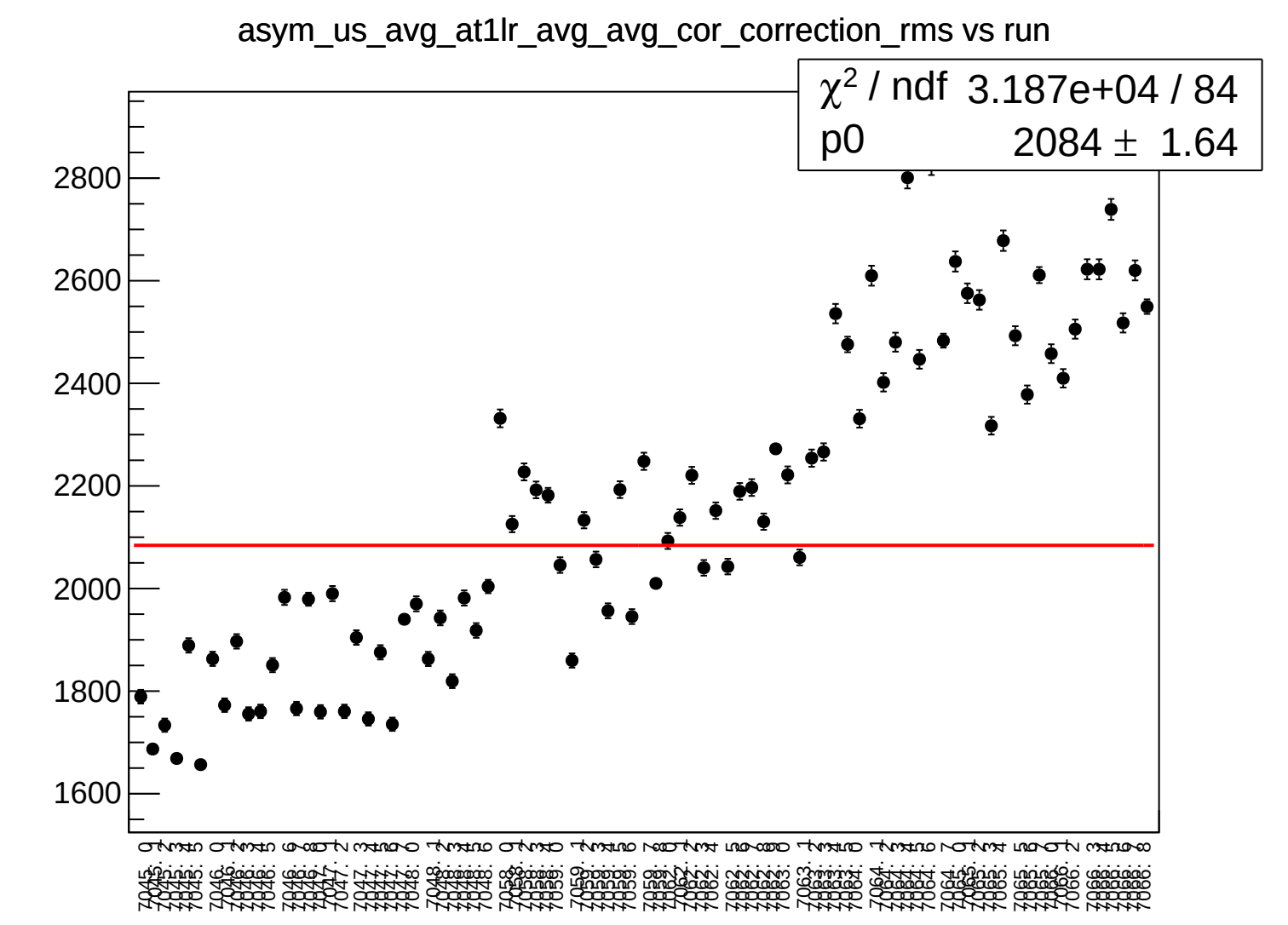

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 84.16 / 84
p0 993.9 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −1480
Std Dev 0
2
1
0
−1
−2

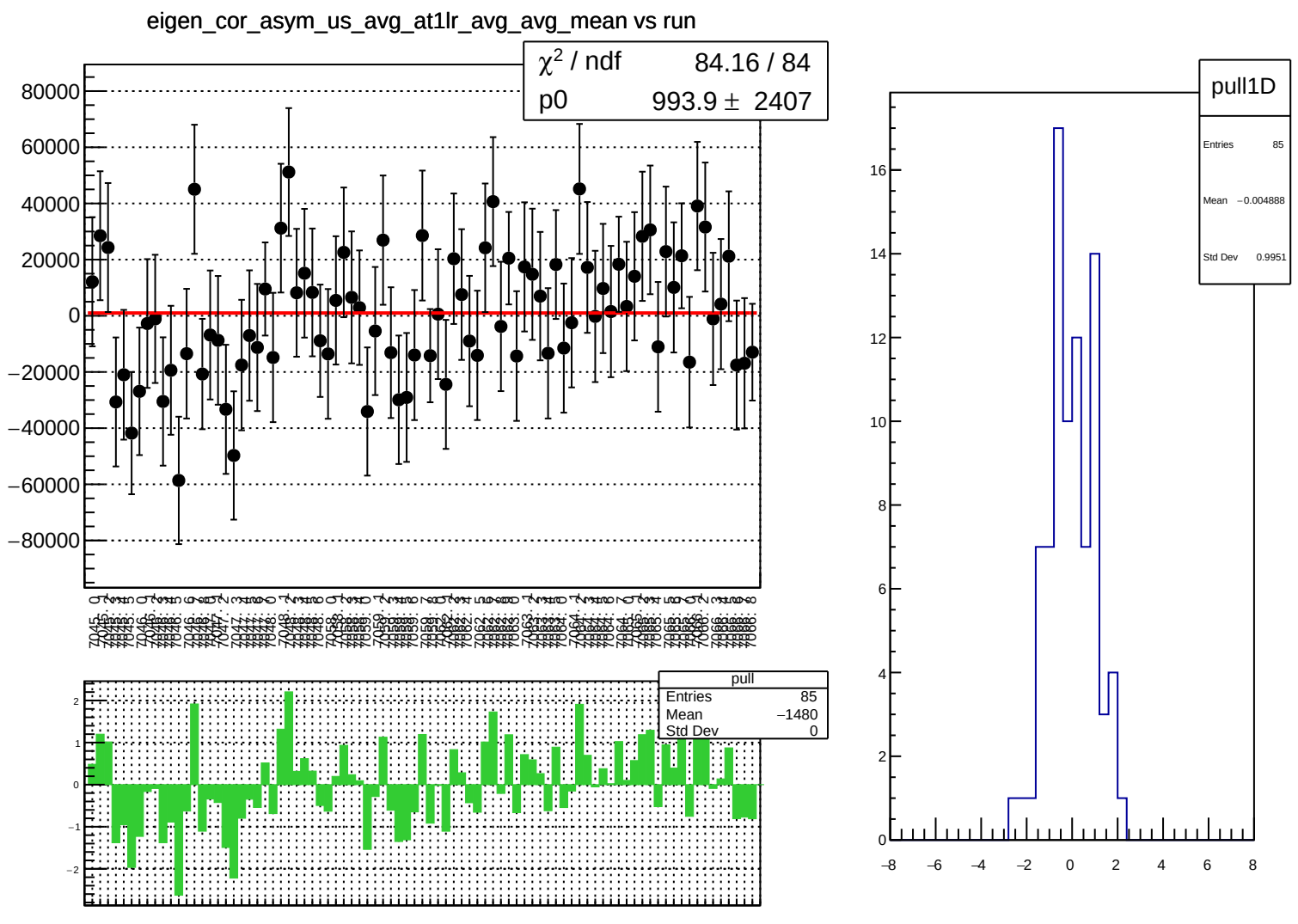

pull1D
Entries 85
Mean −0.004888
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

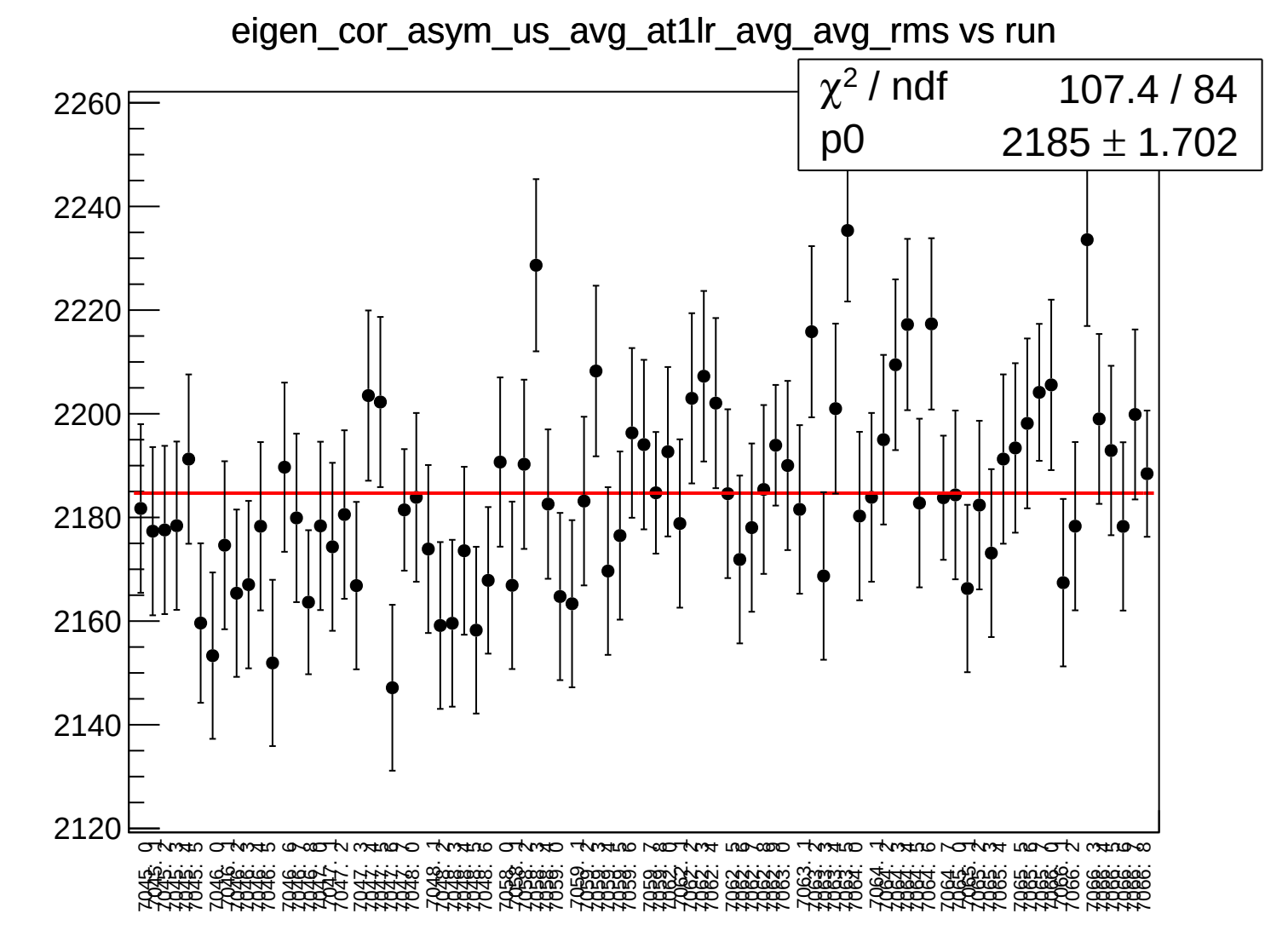

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 107.4 / 84
p0 2185 ± 1.702
2260
2240
2220
2200
2180
2160
2140
2120

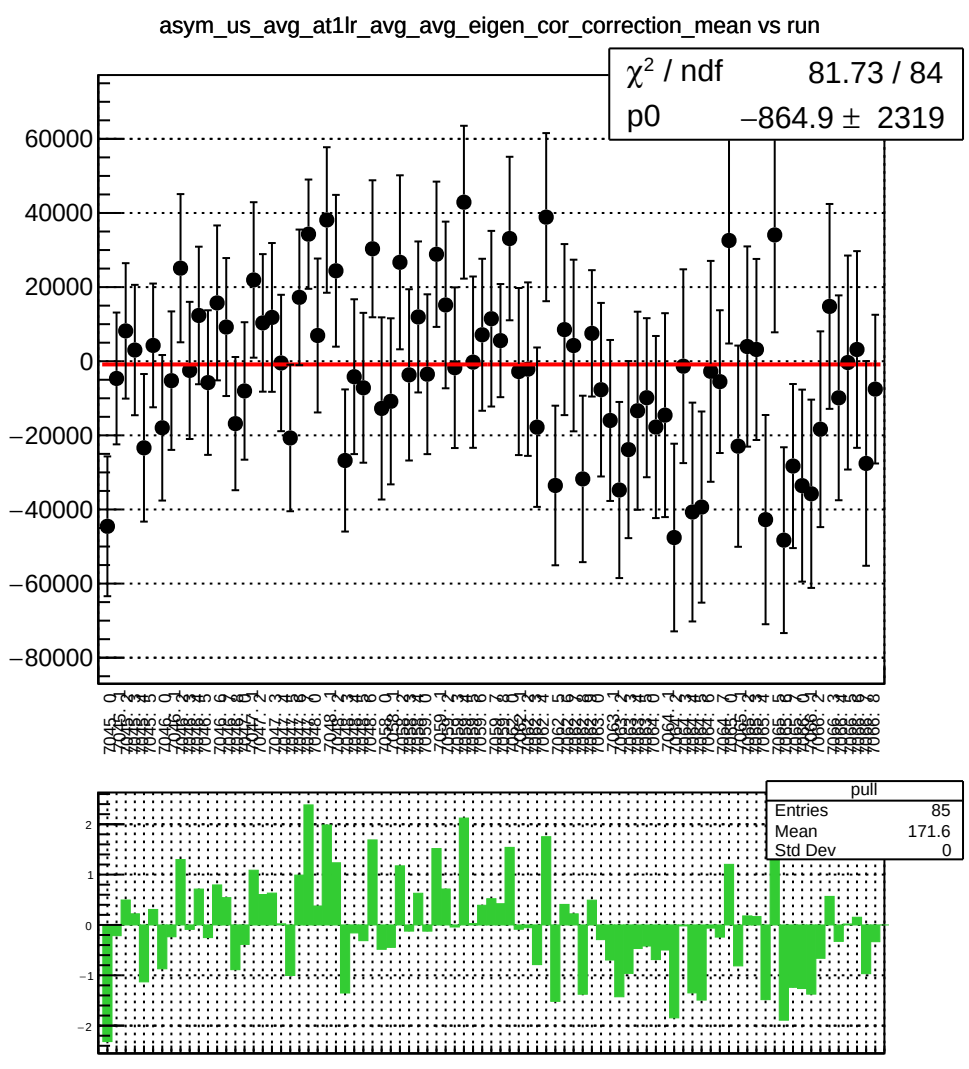

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 81.73 / 84
p0 −864.9 ± 2319
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 171.6
Std Dev 0
2
1
0
−1
−2

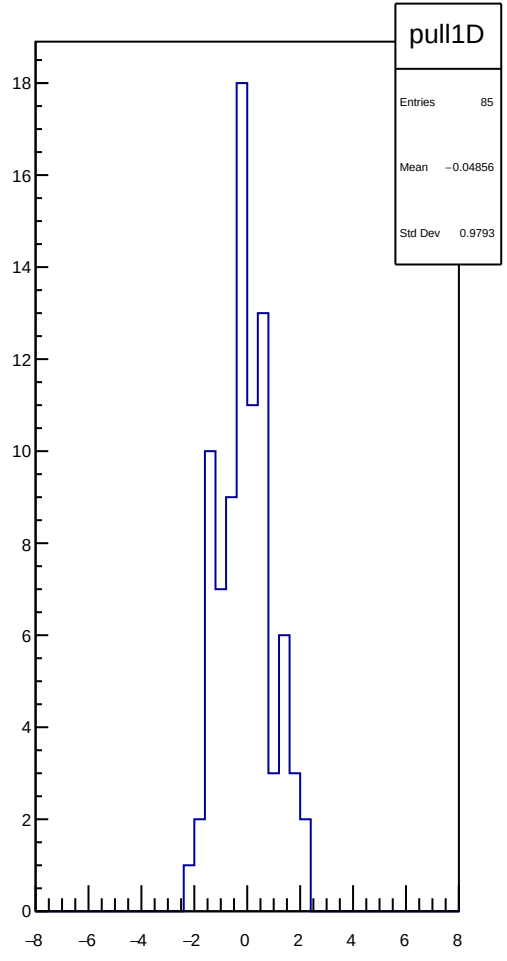

pull1D
Entries 85
Mean −0.04856
Std Dev 0.9793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

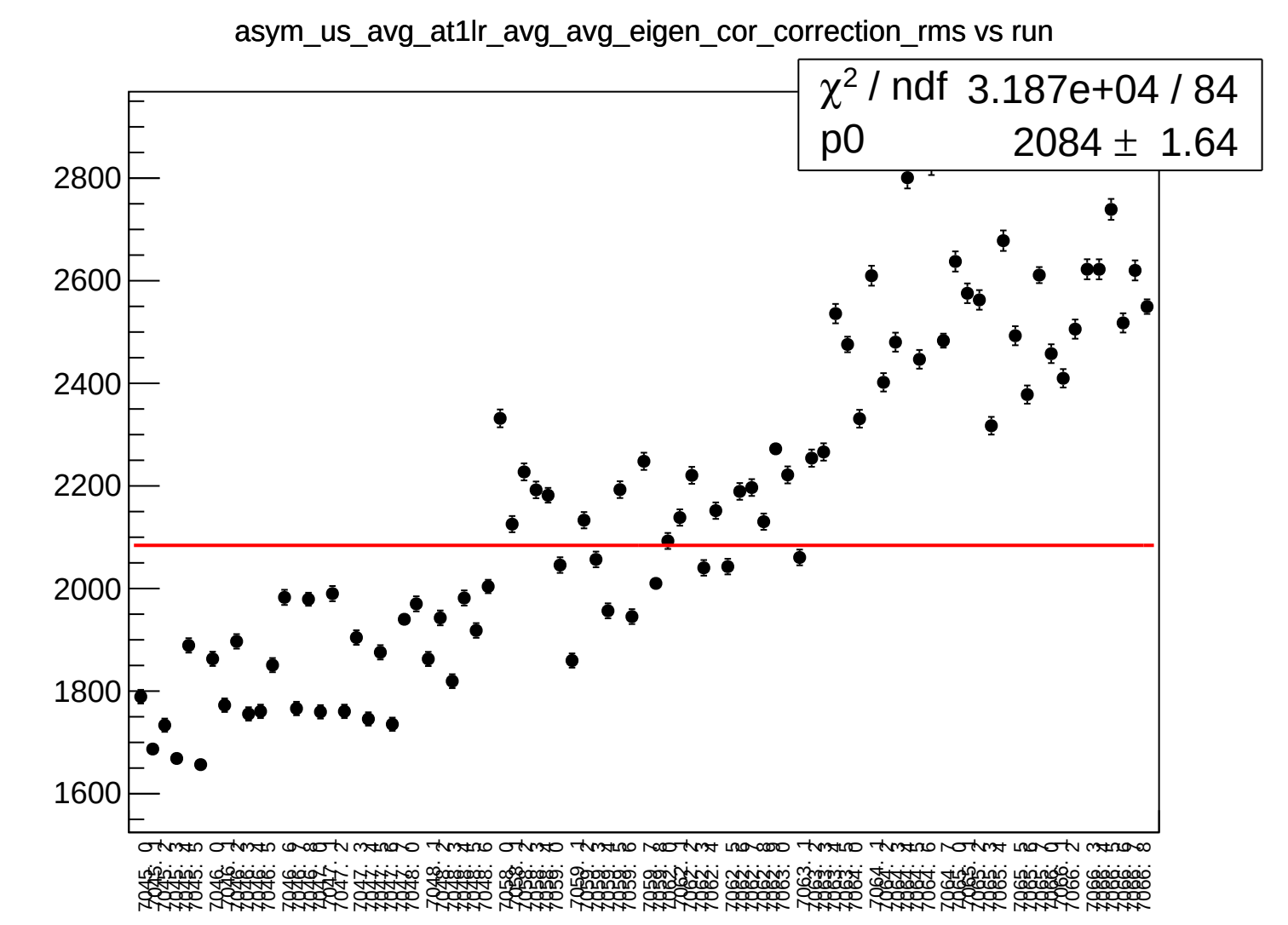

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.187e+04 / 84
p0 2084 ± 1.64
2800
2600
2400
2200
2000
1800
1600

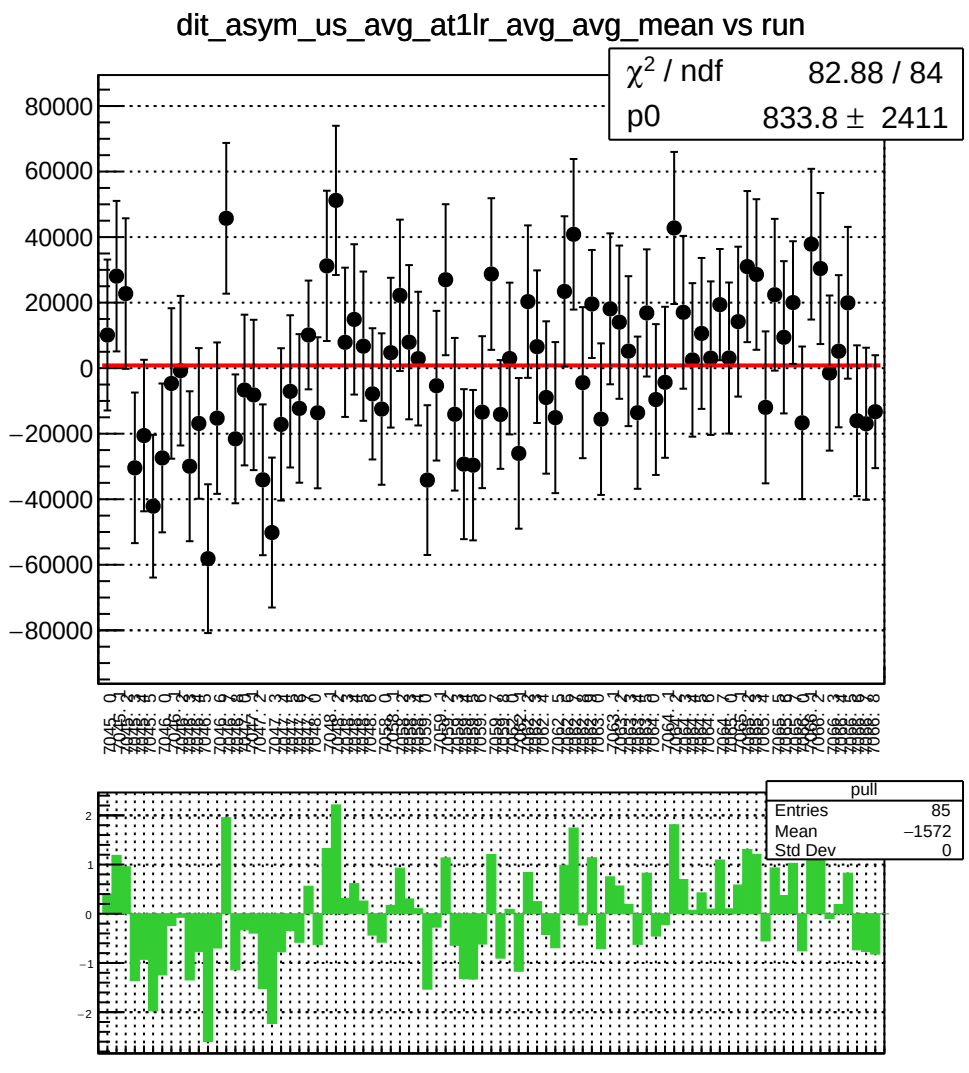

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 84.16 / 84
p0 993.9 ± 2407
pull
Entries 85
Mean −1480
Std Dev 0
pull1D
Entries 85
Mean −0.004888
Std Dev 0.9951

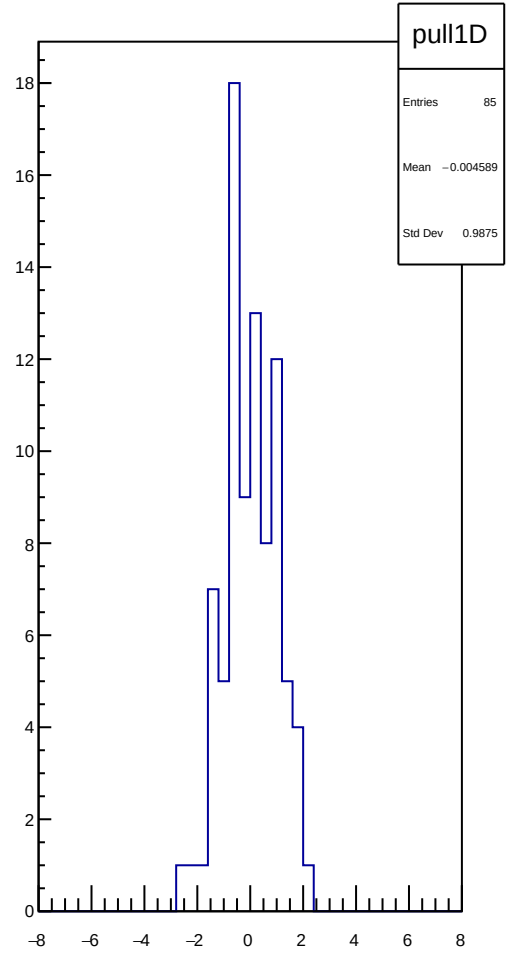

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 107.4 / 84
p0 2185 ± 1.702
2260
2240
2220
2200
2180
2160
2140
2120

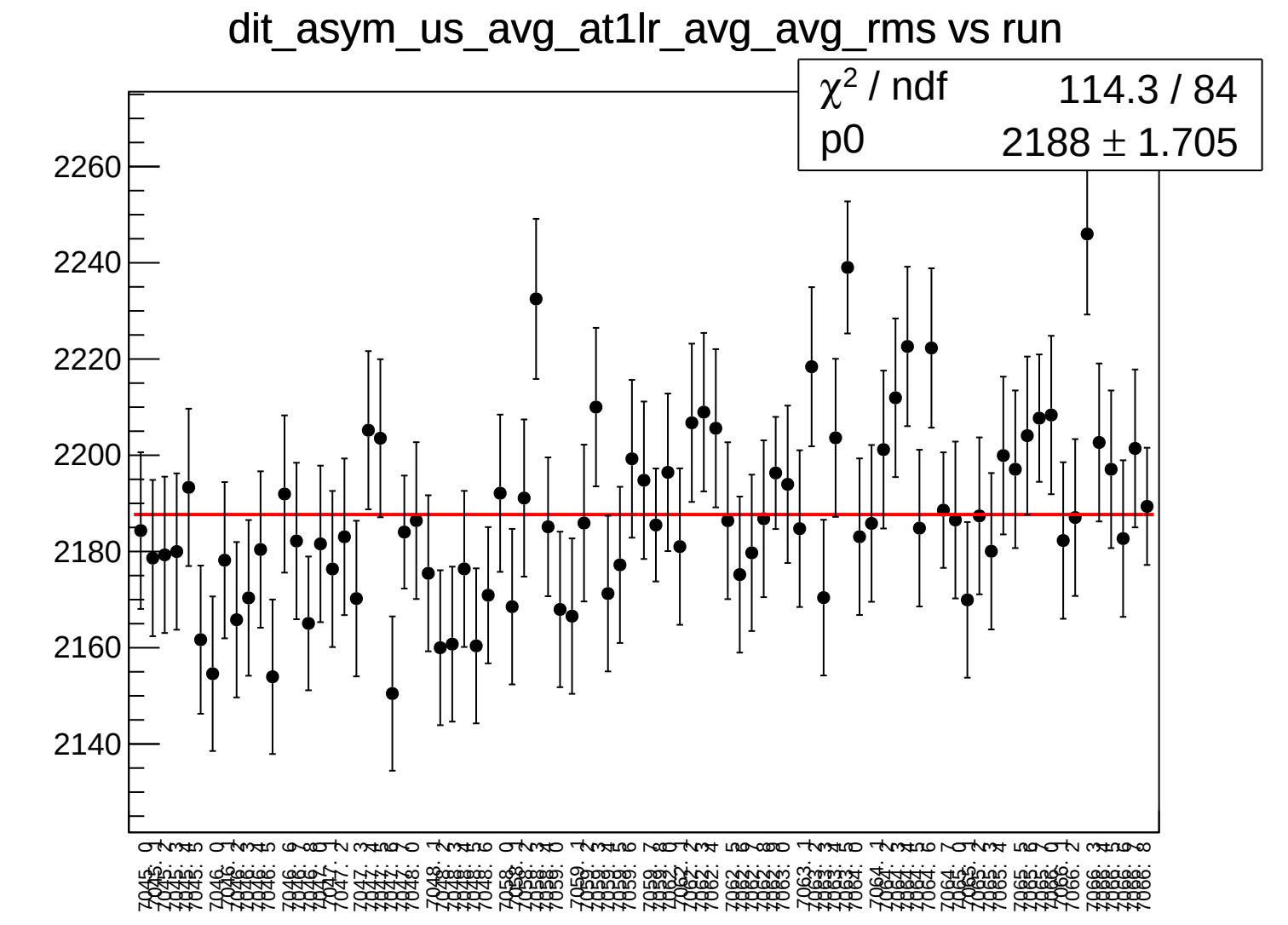

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.73 / 84
p0 −864.9 ± 2319
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 171.6
Std Dev 0
2
1
0
−1
−2

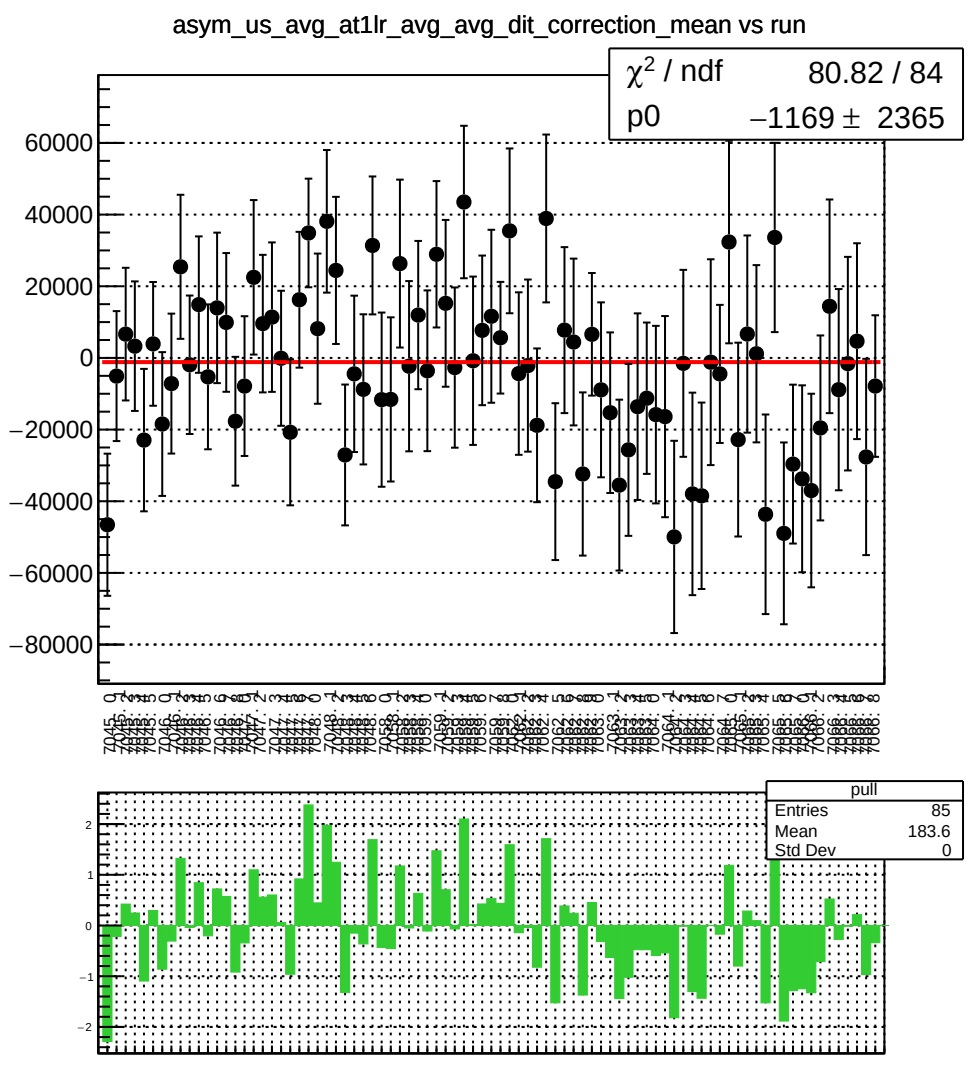

pull1D
Entries 85
Mean −0.04856
Std Dev 0.9793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

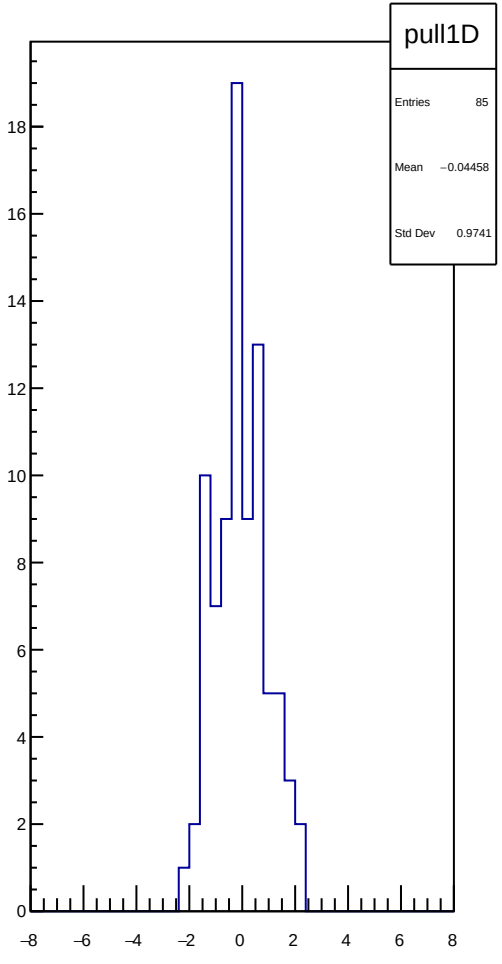

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.187e+04 / 84
p0 2084 ± 1.64
2800
2600
2400
2200
2000
1800
1600

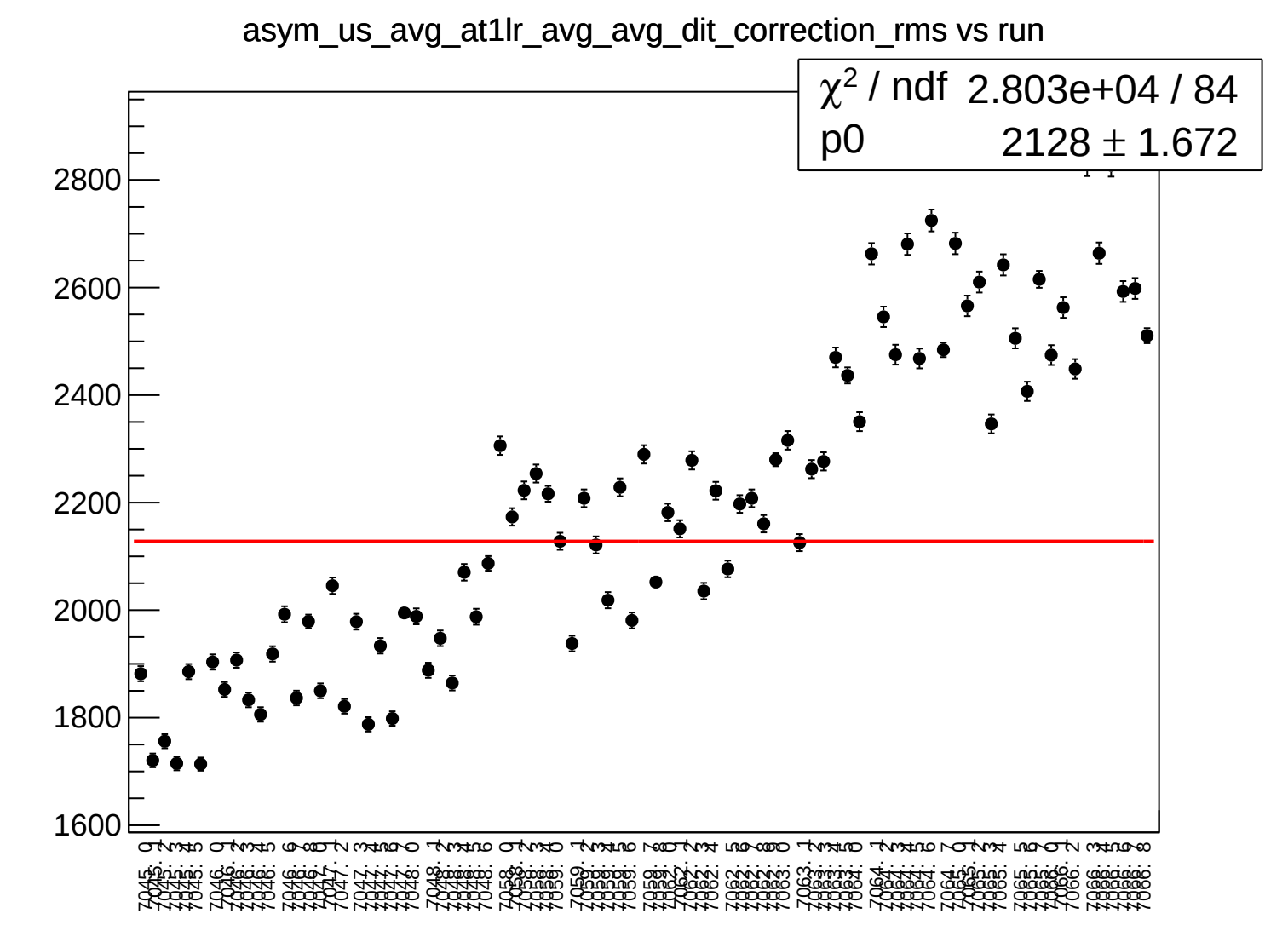

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 82.88 / 84
p0 833.8 ± 2411
pull
Entries 85
Mean −1572
Std Dev 0

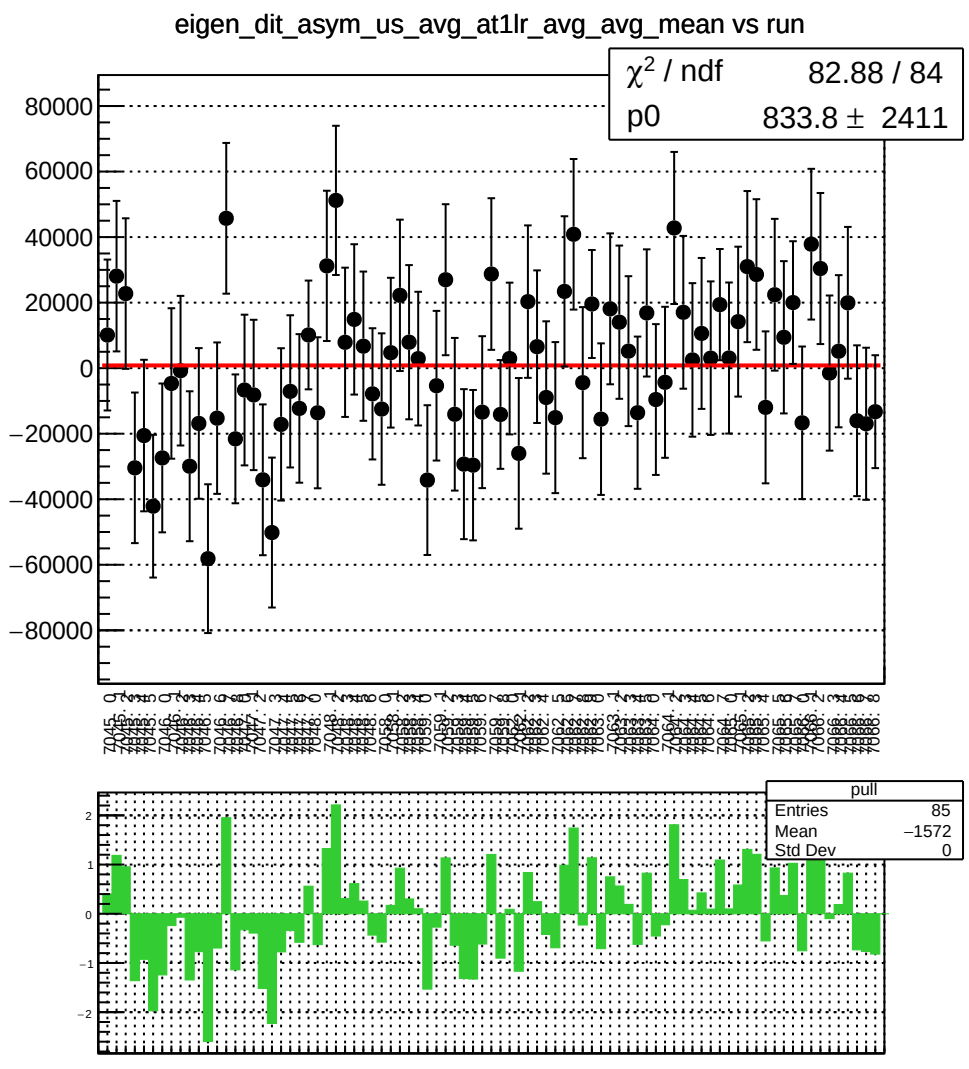

pull1D
Entries 85
Mean −0.004589
Std Dev 0.9875

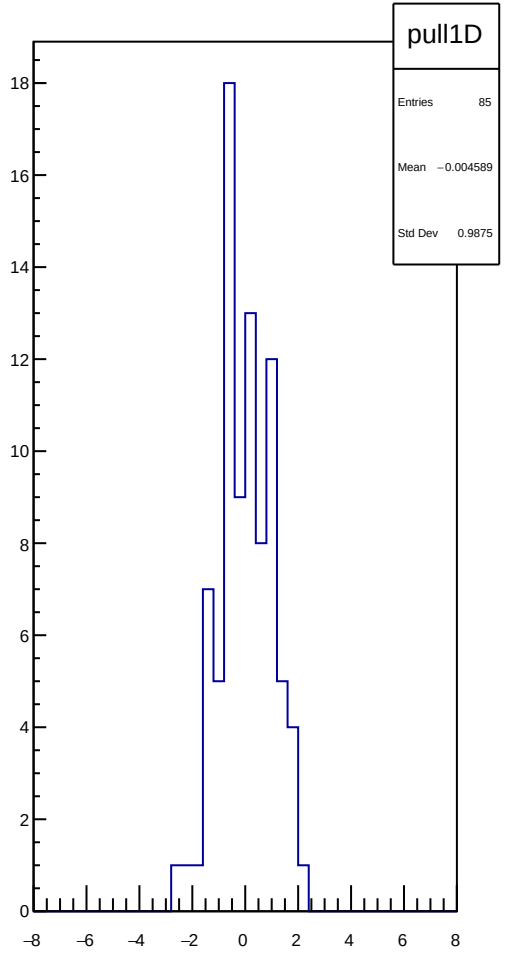

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 114.3 / 84
p0 2188 ± 1.705
2260
2240
2220
2200
2180
2160
2140

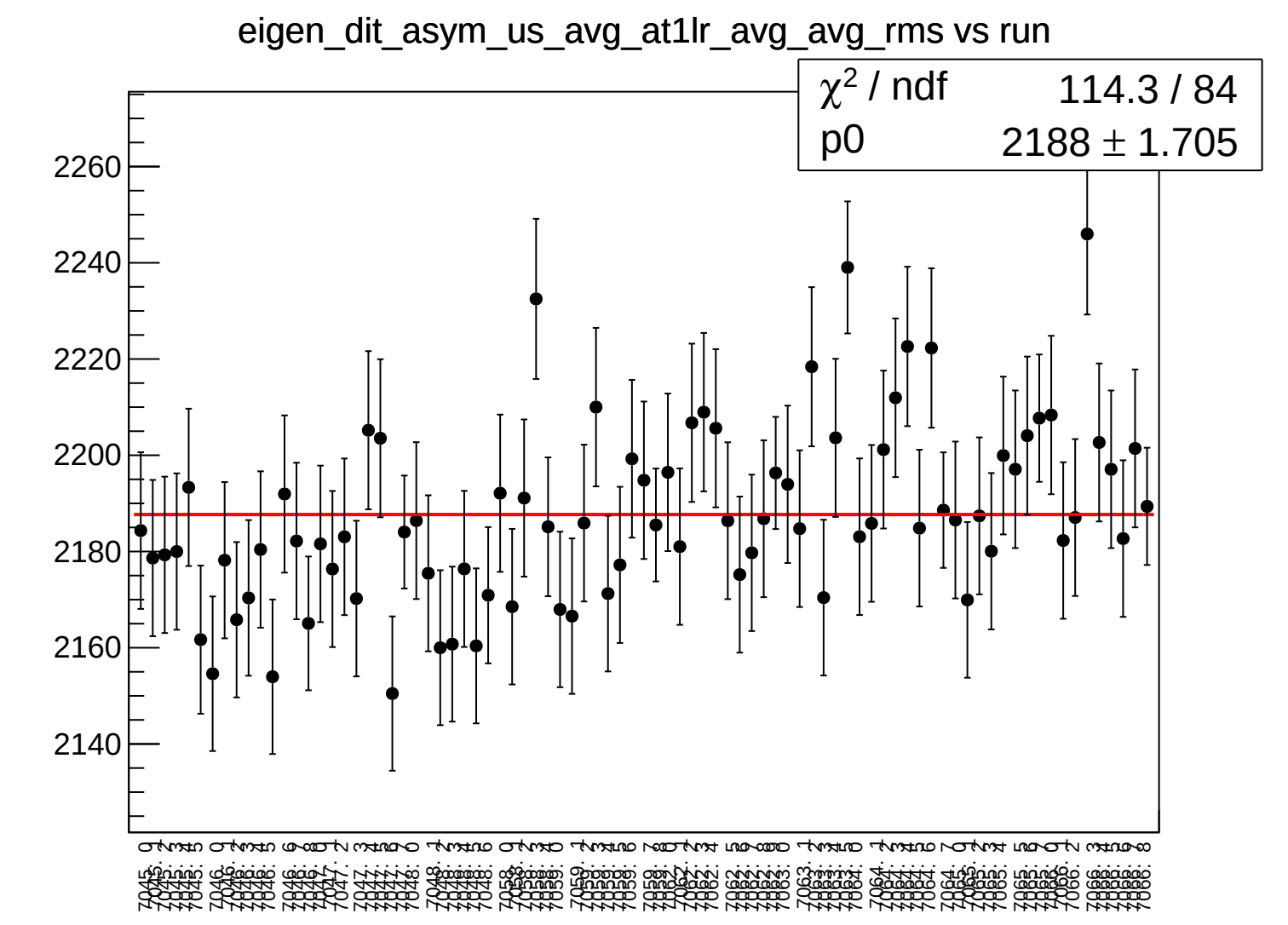

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 80.82 / 84
p0 −1169 ± 2365
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 183.6
Std Dev 0
2
1
0
−1
−2

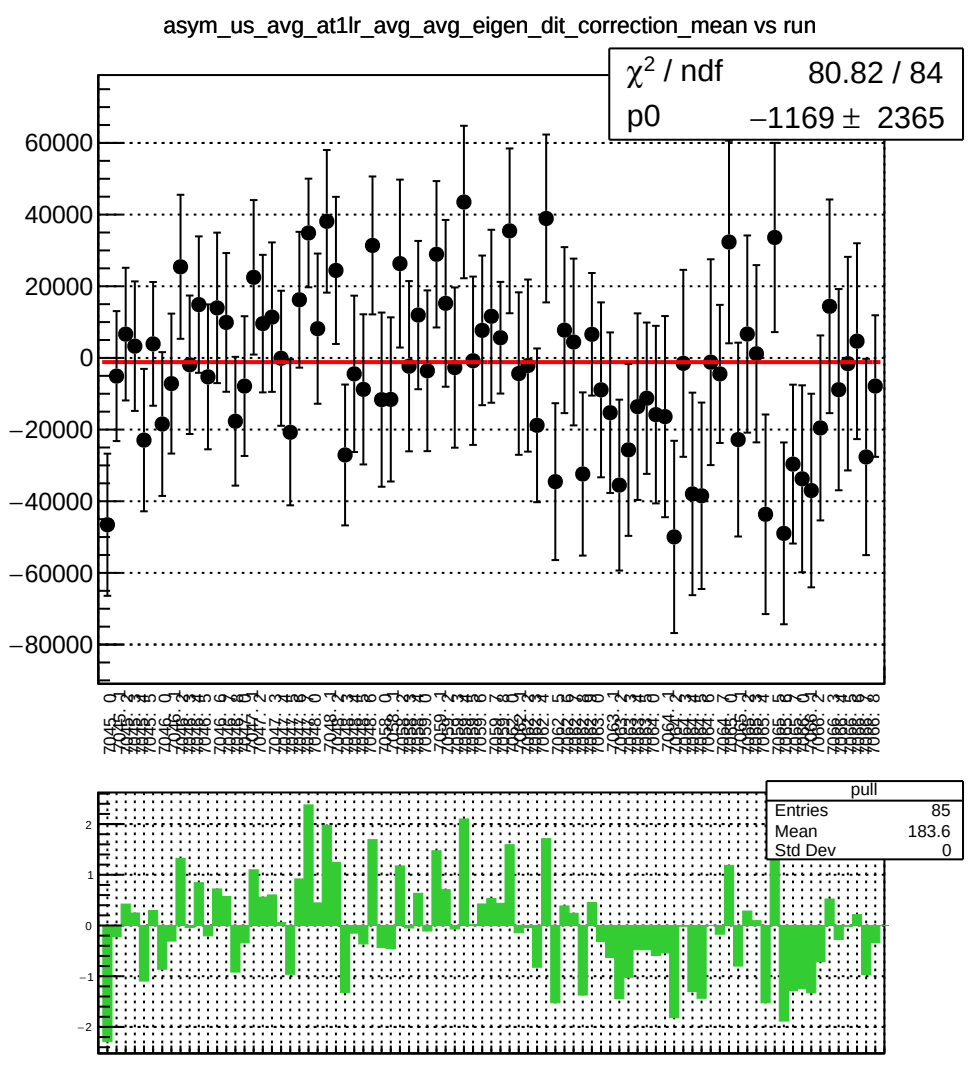

pull1D
Entries 85
Mean −0.04458
Std Dev 0.9741
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

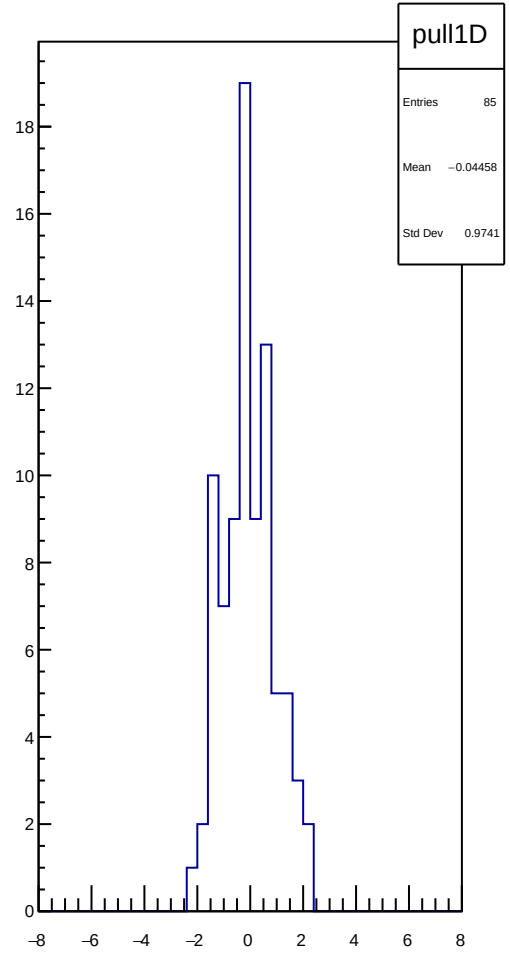

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.803e+04 / 84
p0 2128 ± 1.672
2800
2600
2400
2200
2000
1800
1600

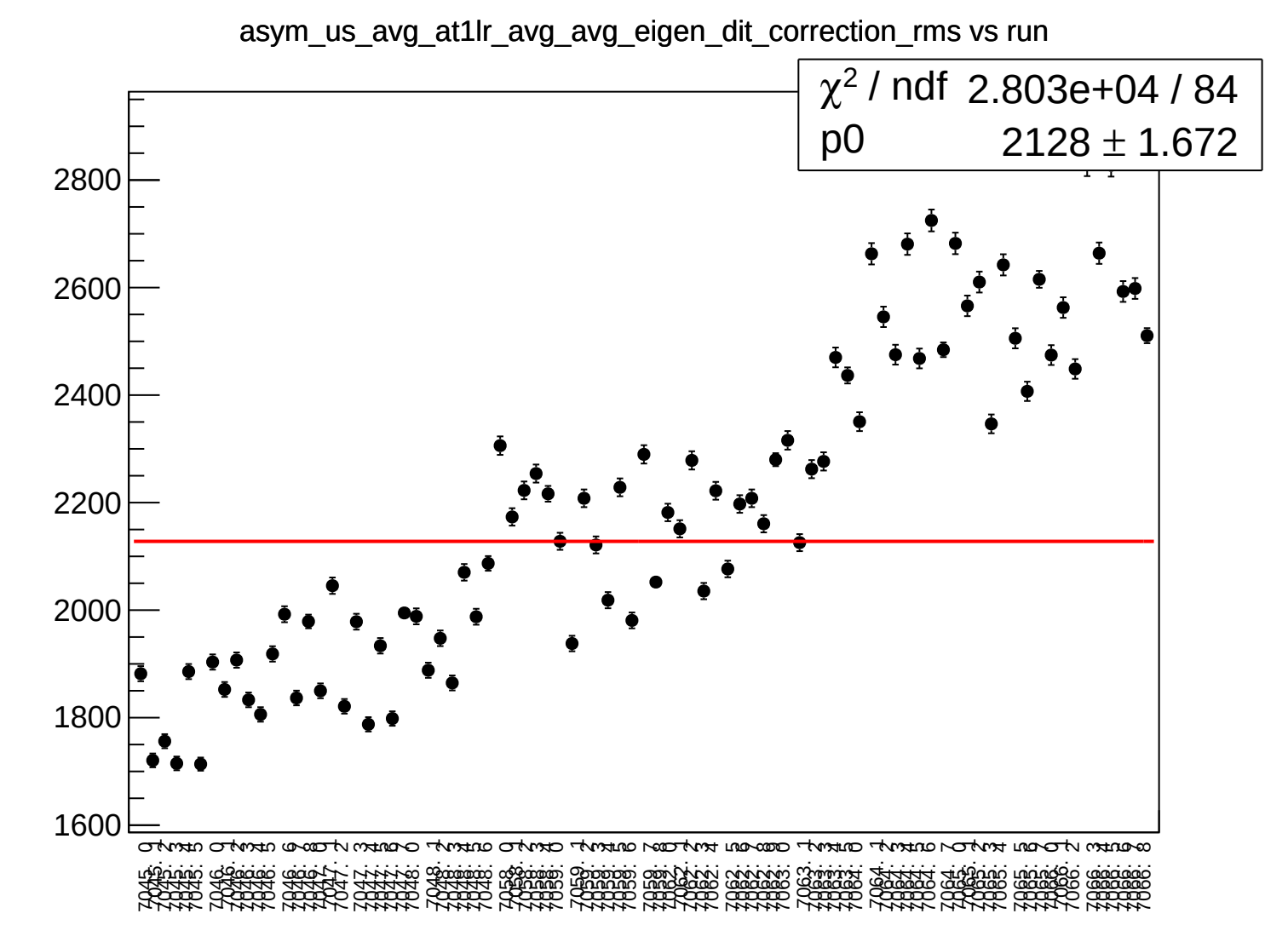

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 82.88 / 84
p0 833.8 ± 2411
pull
Entries 85
Mean −1572
Std Dev 0

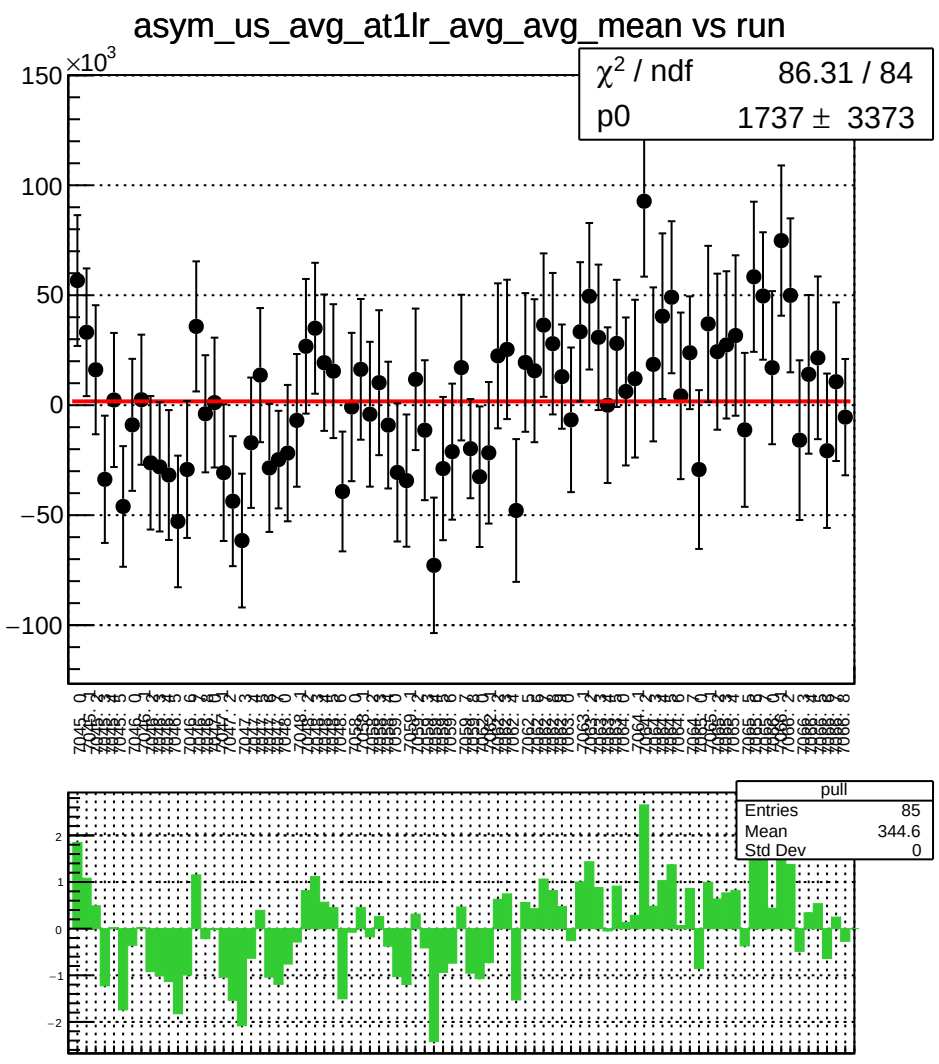

pull1D
Entries 85
Mean −0.004589
Std Dev 0.9875

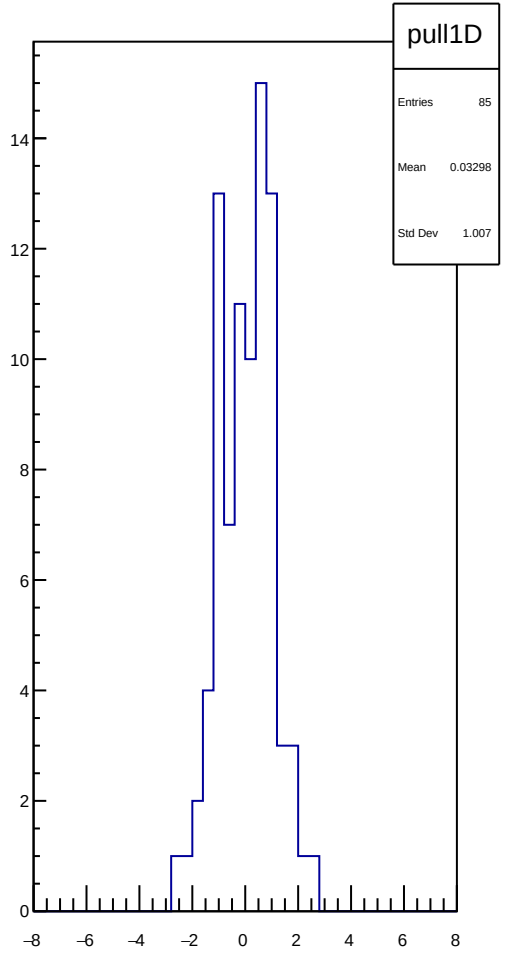

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 114.3 / 84
p0 2188 ± 1.705
2260
2240
2220
2200
2180
2160
2140

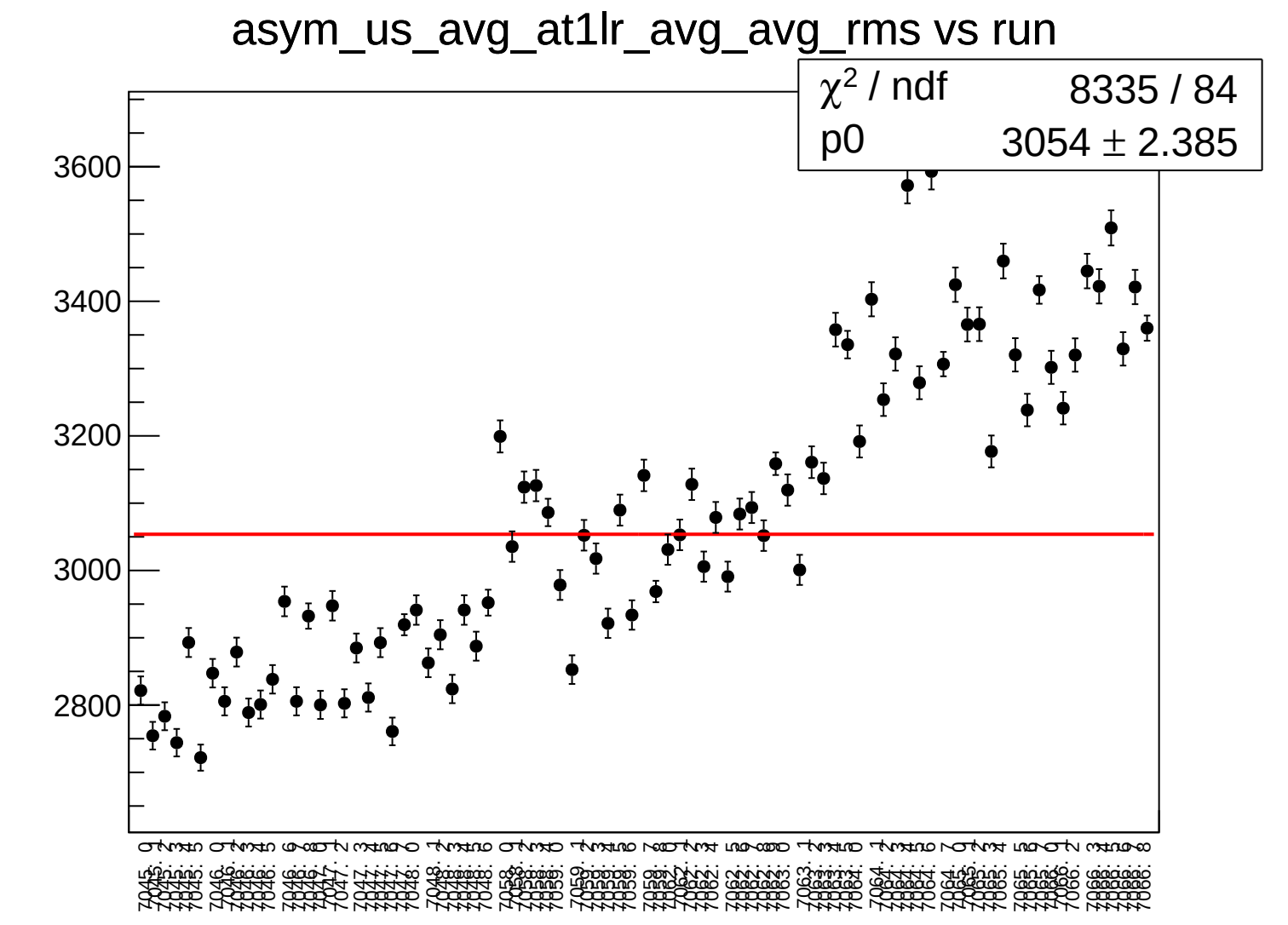

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.82 / 84
p0 −1169 ± 2365
pull
Entries 85
Mean 183.6
Std Dev 0

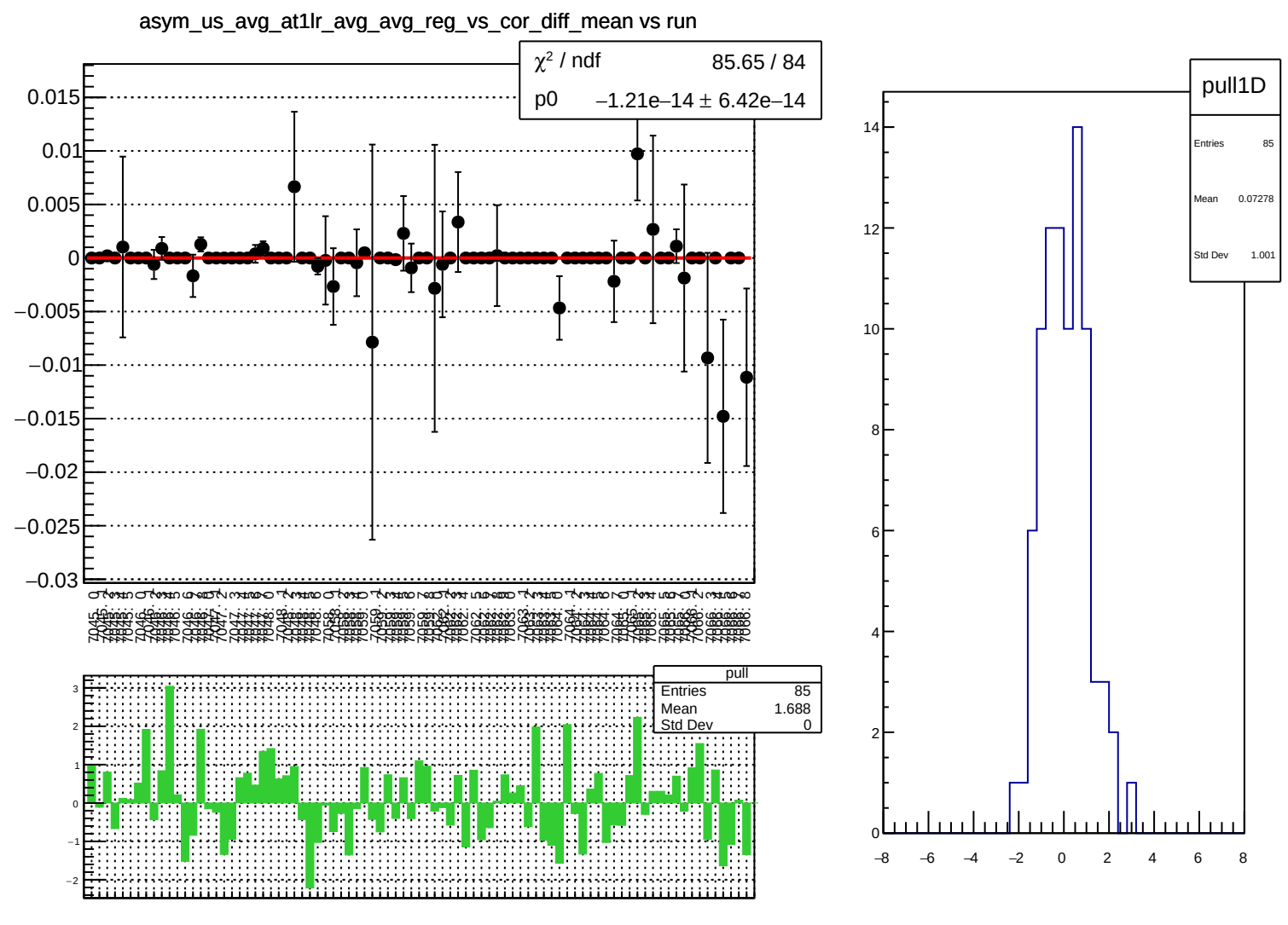

pull1D
Entries 85
Mean −0.04458
Std Dev 0.9741

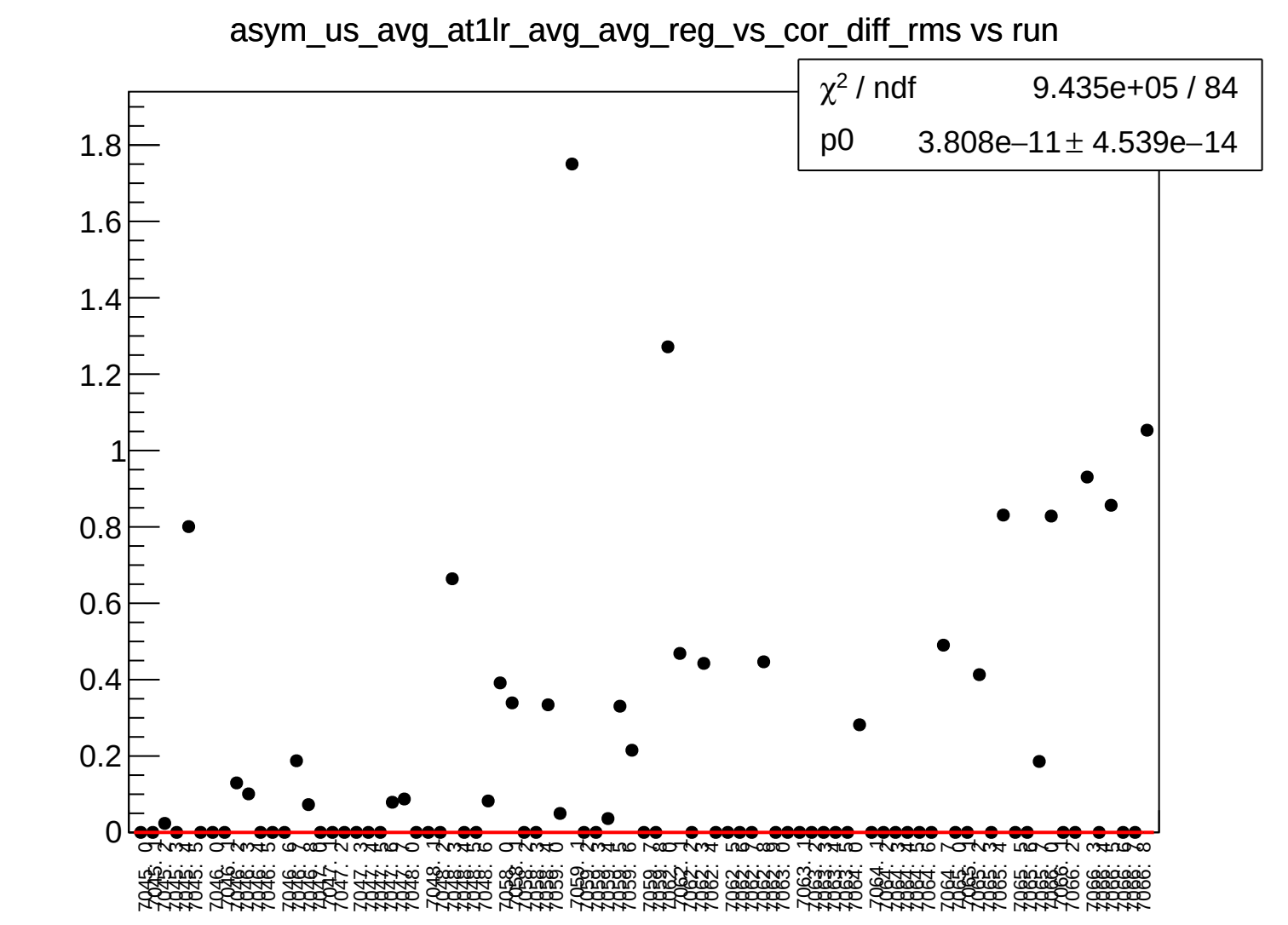

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.803e+04 / 84
p0 2128 ± 1.672
2800
2600
2400
2200
2000
1800
1600

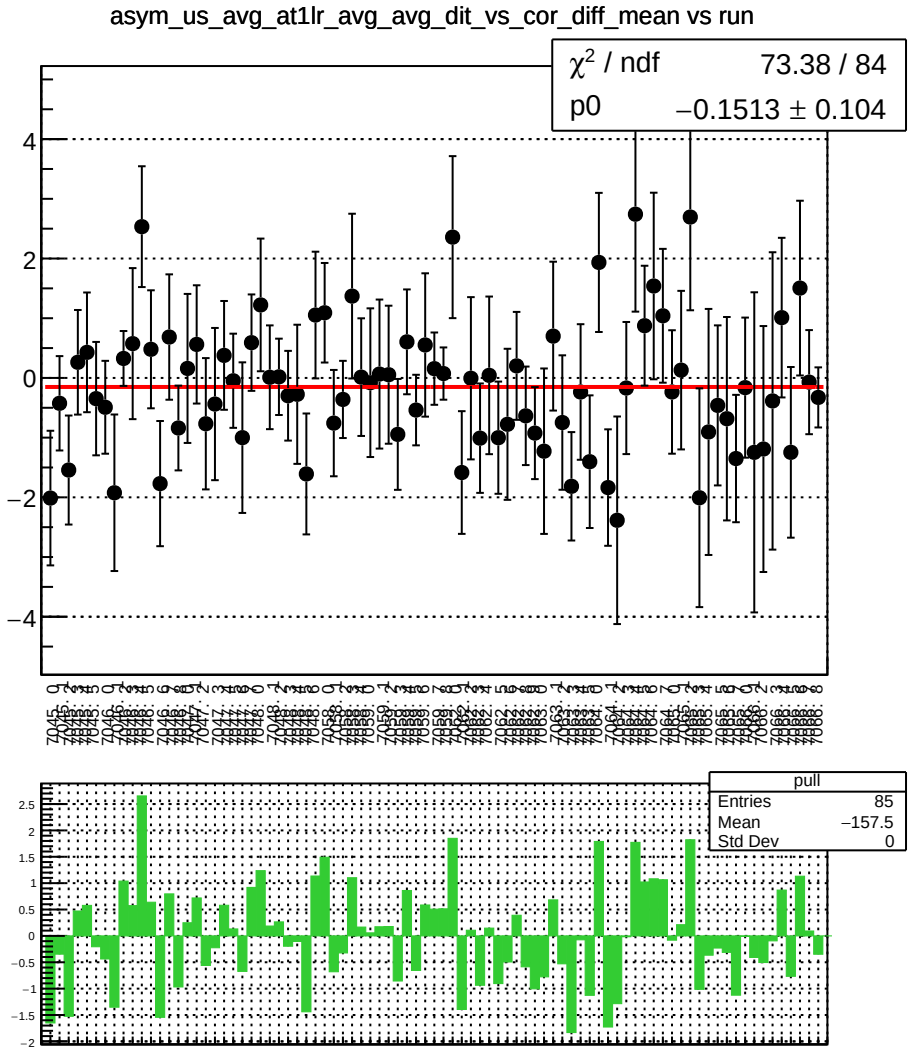

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 86.31 / 84
p0 1737 ± 3373
×10³
150
100
50
0
−50
−100
pull
Entries 85
Mean 344.6
Std Dev 0
2
1
0
−1
−2

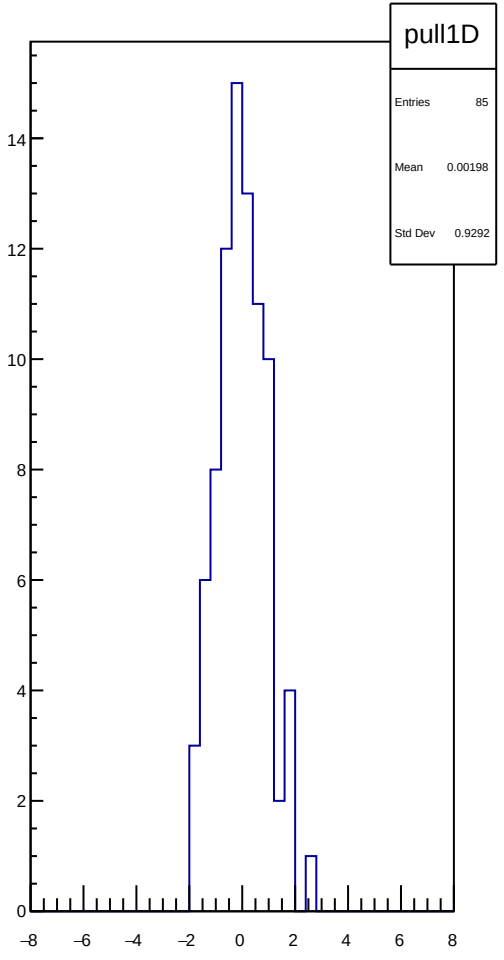

pull1D
Entries 85
Mean 0.03298
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

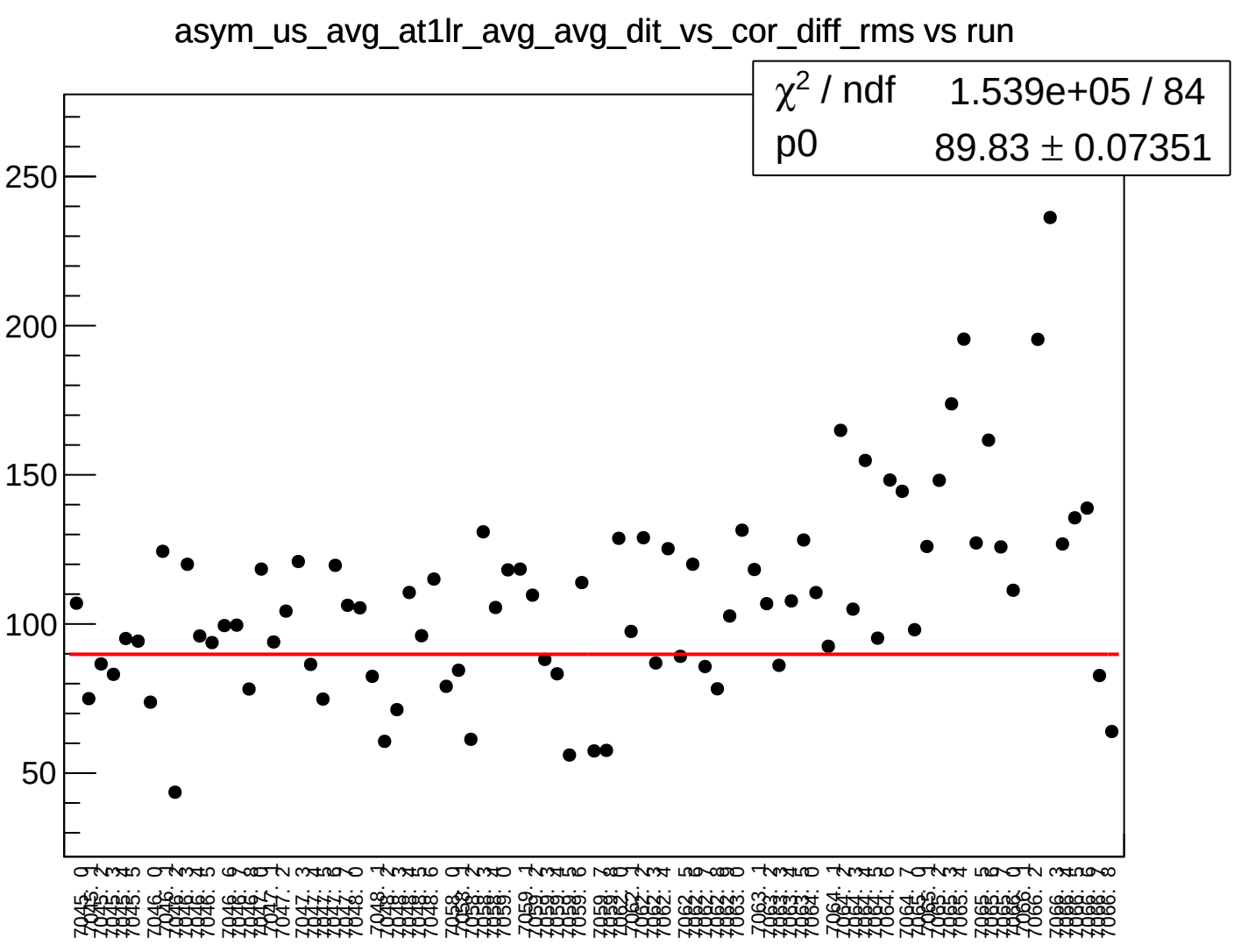

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 8335 / 84
p0 3054 ± 2.385
3600
3400
3200
3000
2800

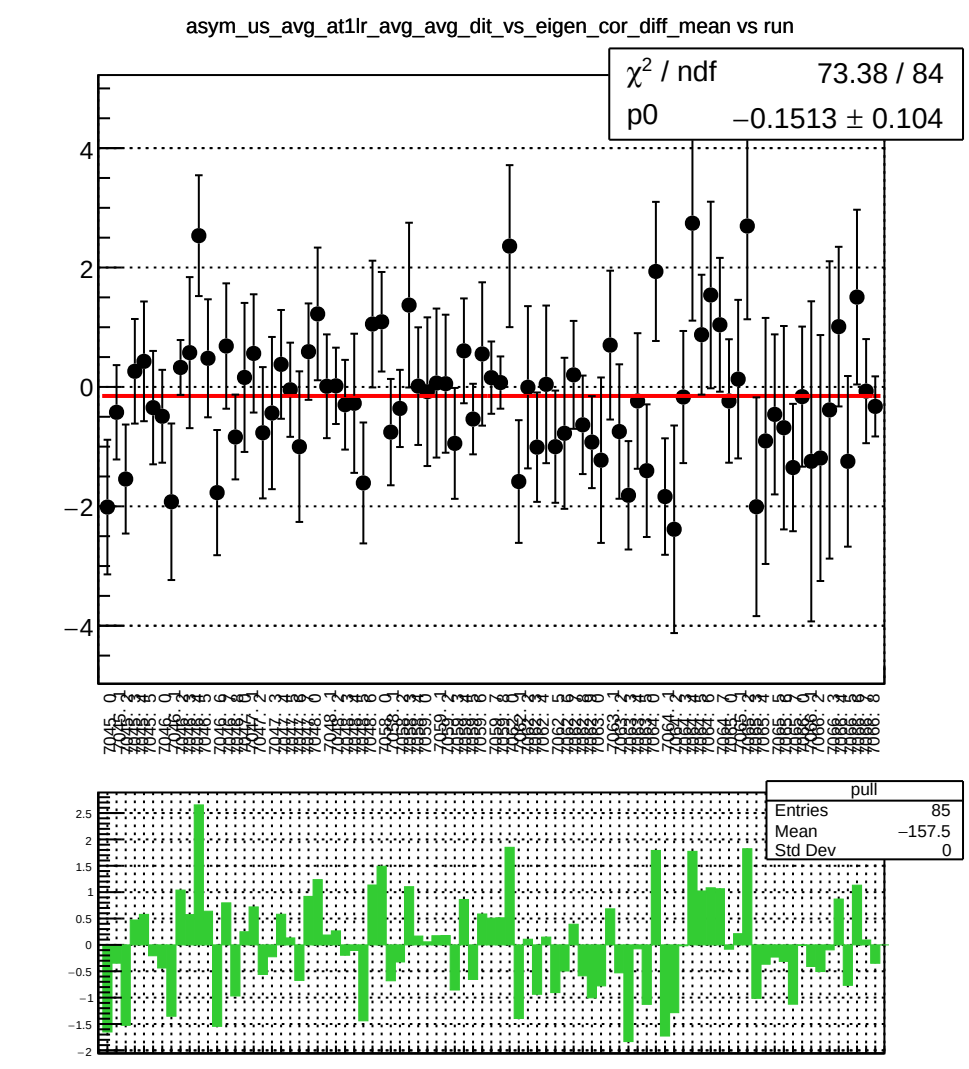

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.65 / 84
p0 −1.21e−14 ± 6.42e−14
pull
Entries 85
Mean 1.688
Std Dev 0
pull1D
Entries 85
Mean 0.07278
Std Dev 1.001

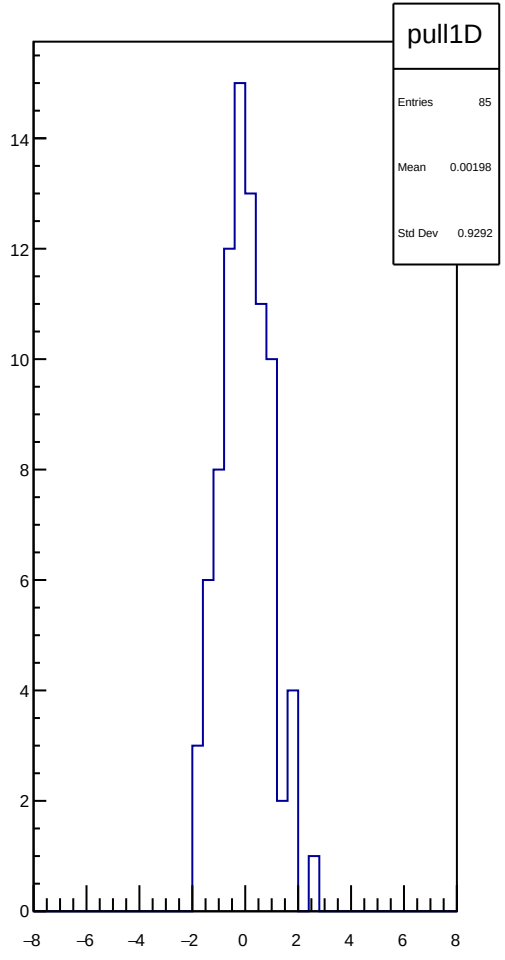

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.435e+05 / 84
p0 3.808e−11 ± 4.539e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

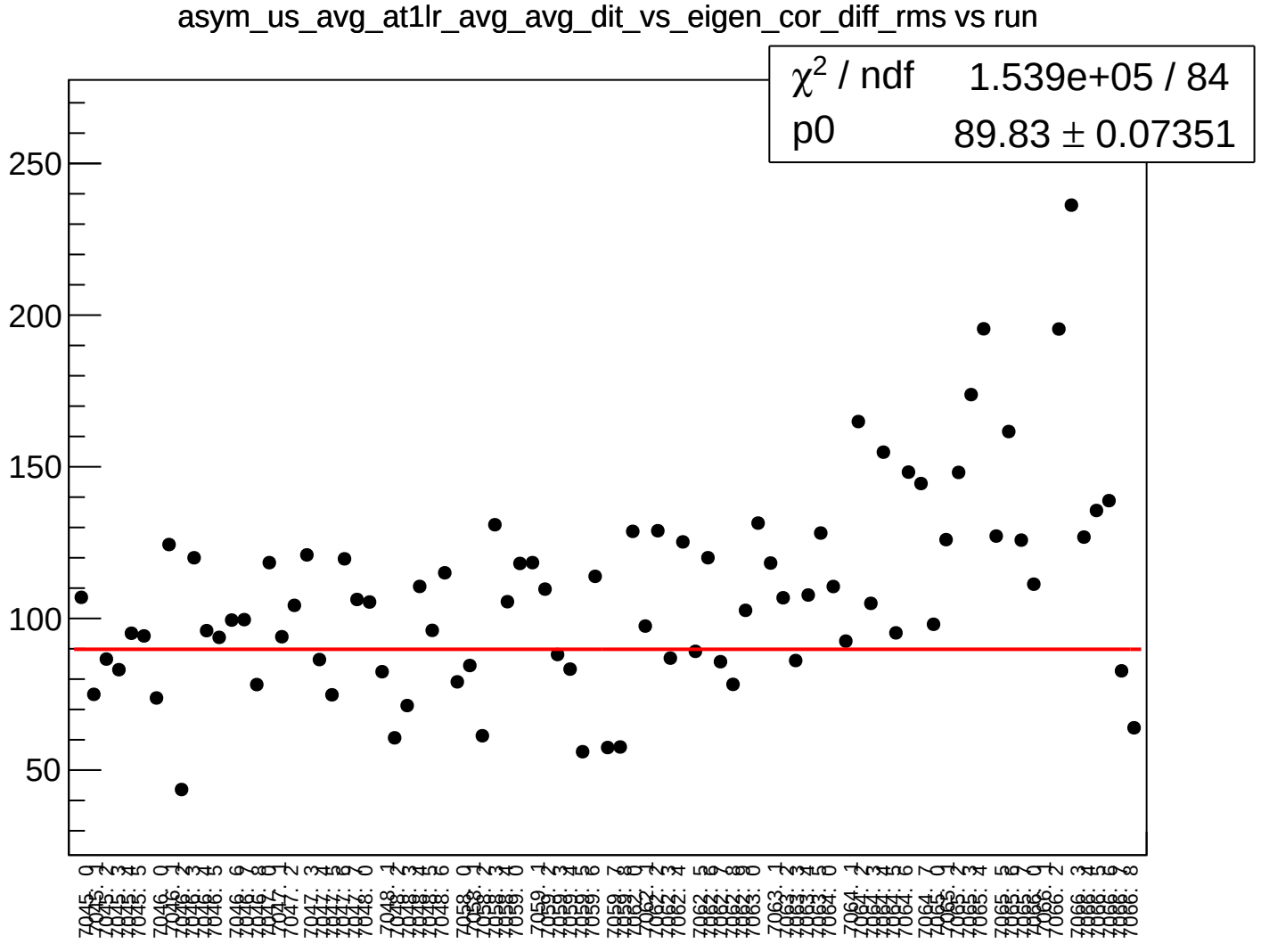

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.38 / 84
p0 −0.1513 ± 0.104
pull
Entries 85
Mean −157.5
Std Dev 0

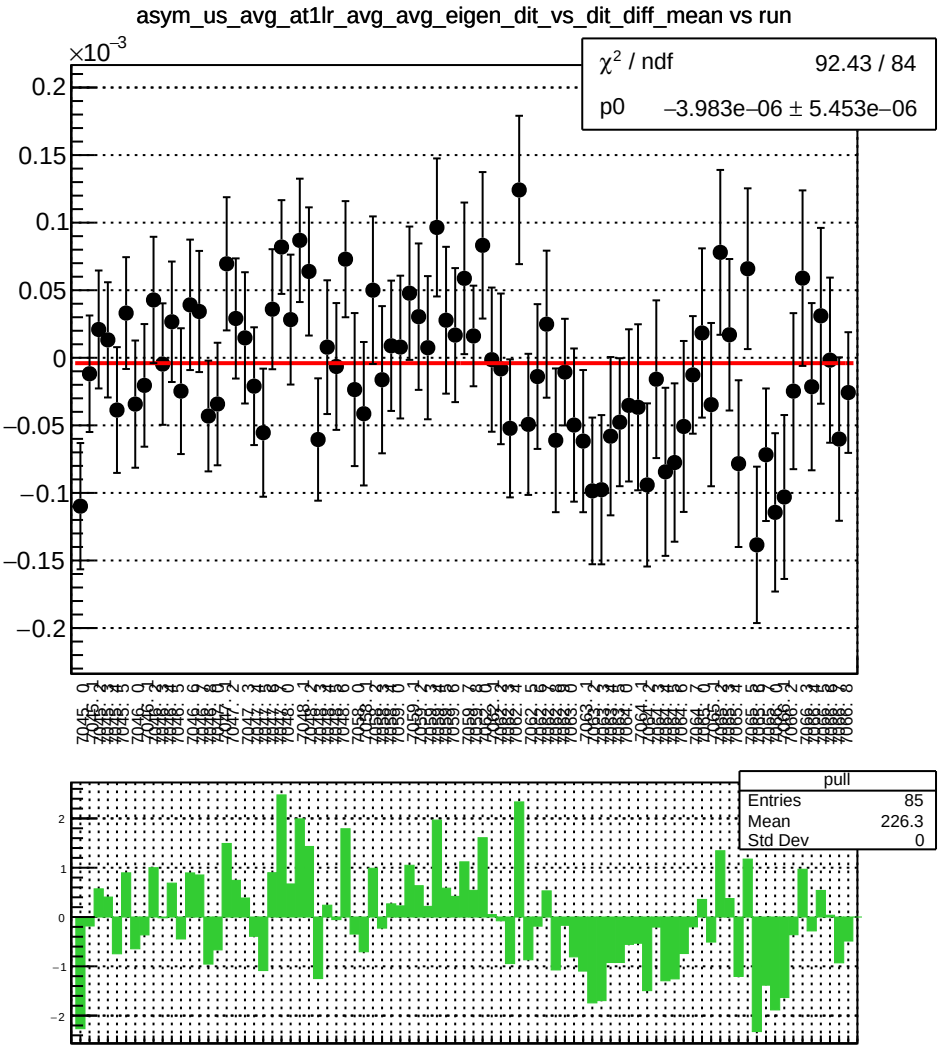

pull1D
Entries 85
Mean 0.00198
Std Dev 0.9292

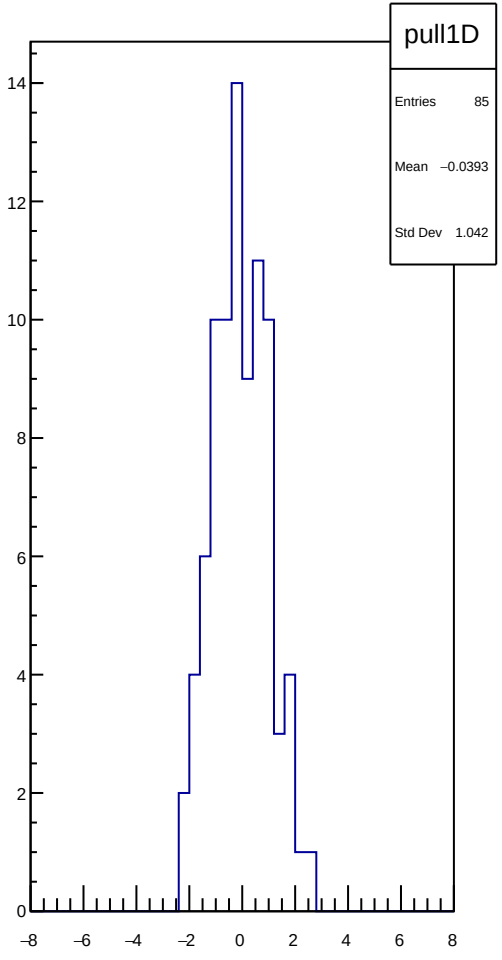

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 84
p0 89.83 ± 0.07351
250
200
150
100
50

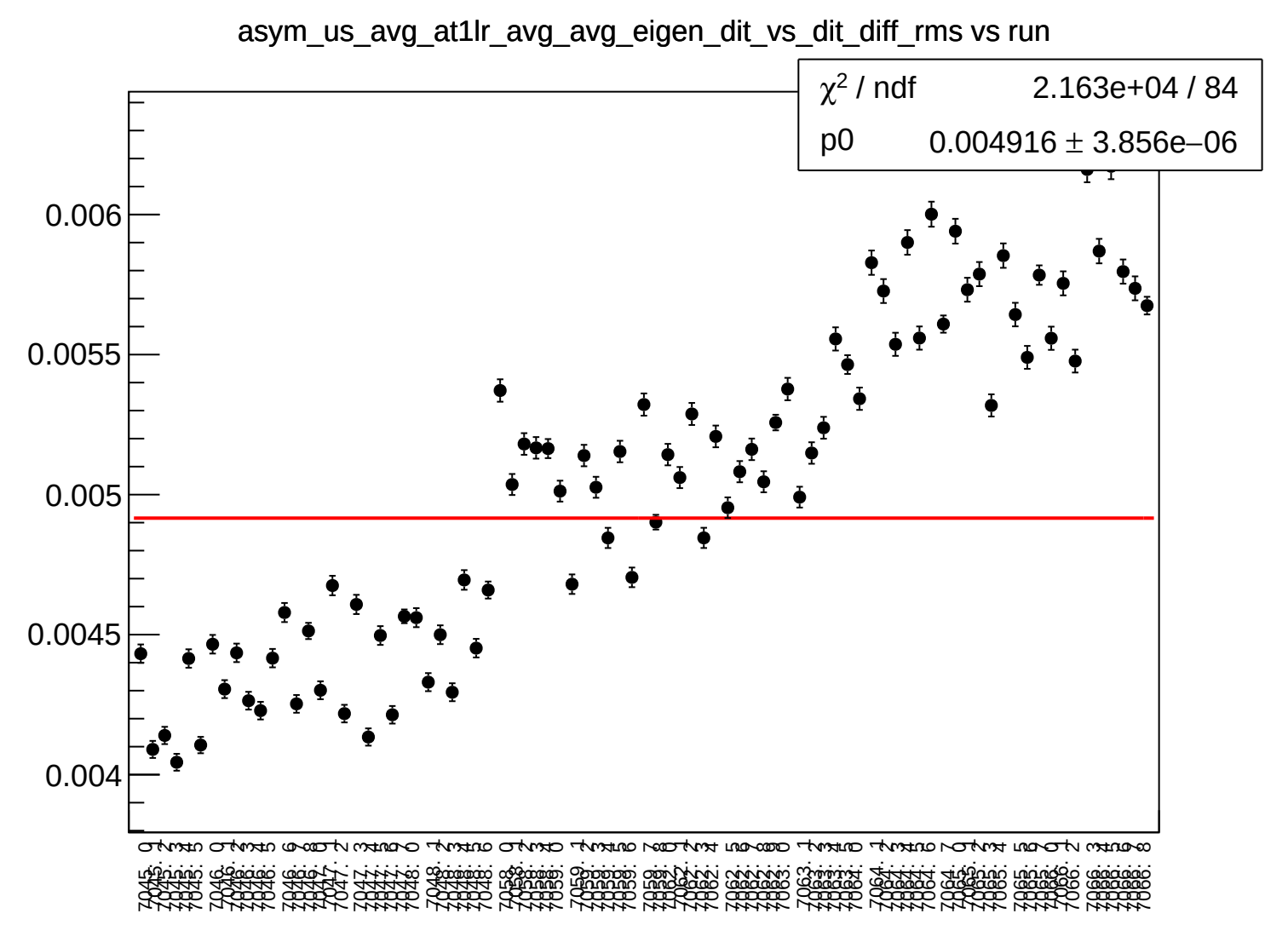

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.38 / 84
p0 −0.1513 ± 0.104
pull
Entries 85
Mean −157.5
Std Dev 0

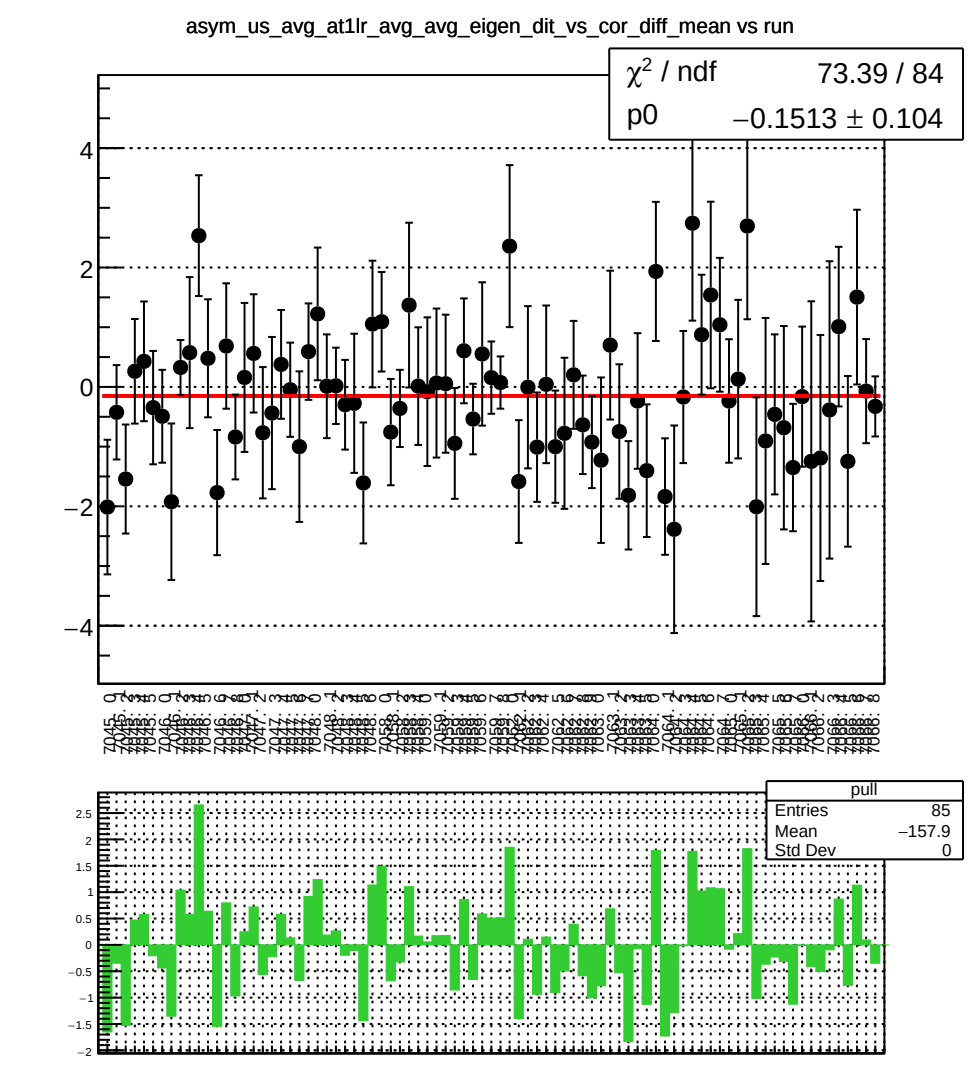

pull1D
Entries 85
Mean 0.00198
Std Dev 0.9292

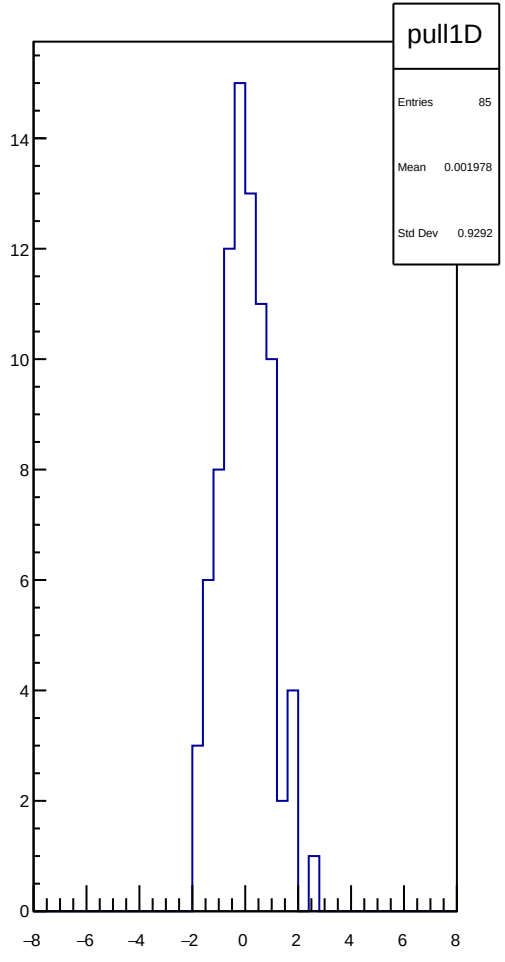

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 84
p0 89.83 ± 0.07351
250
200
150
100
50

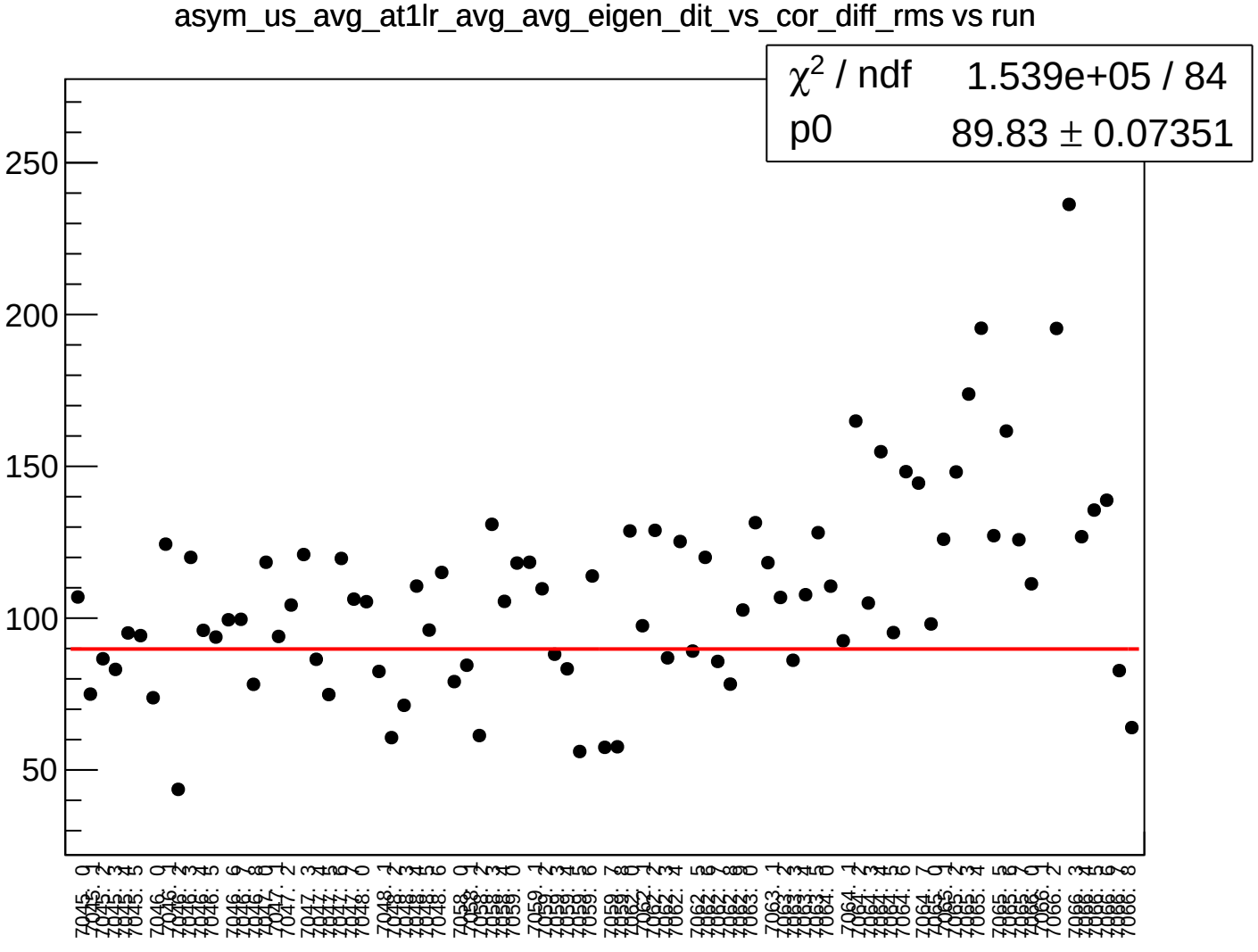

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.43 / 84
p0 −3.983e−06 ± 5.453e−06
pull
Entries 85
Mean 226.3
Std Dev 0

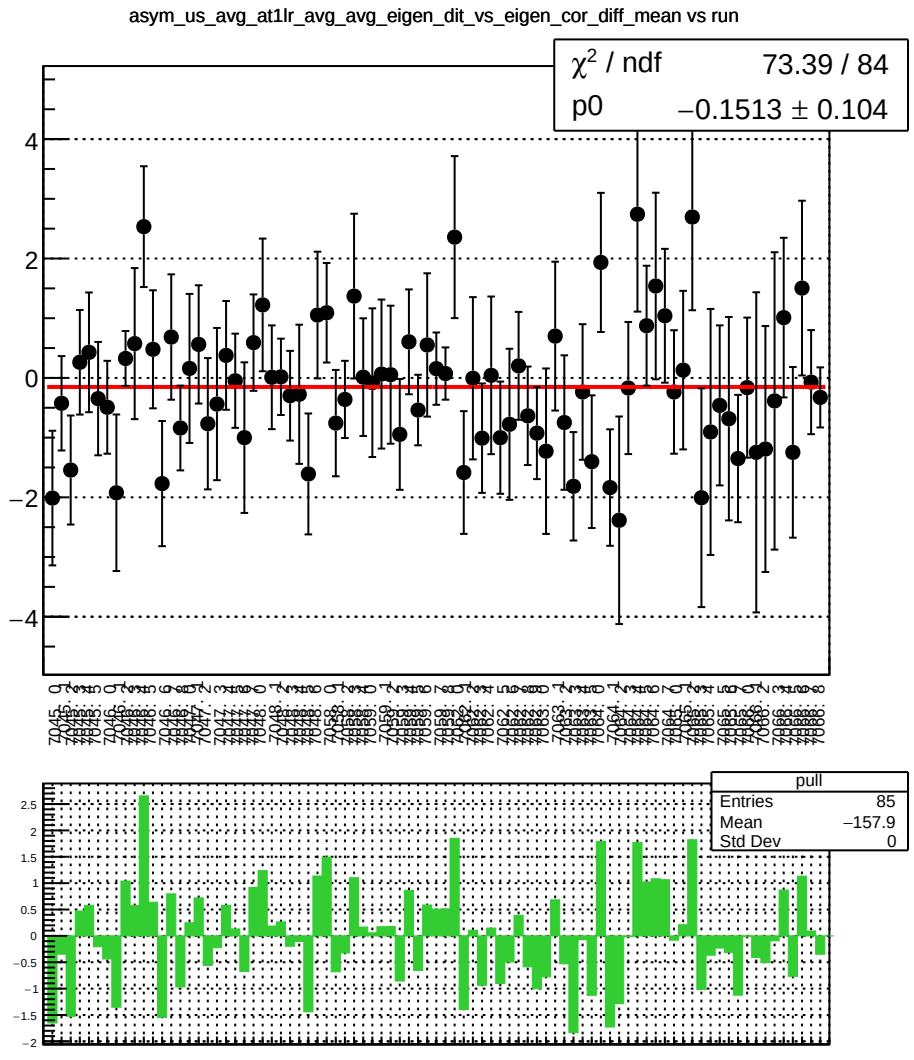

pull1D
Entries 85
Mean −0.0393
Std Dev 1.042

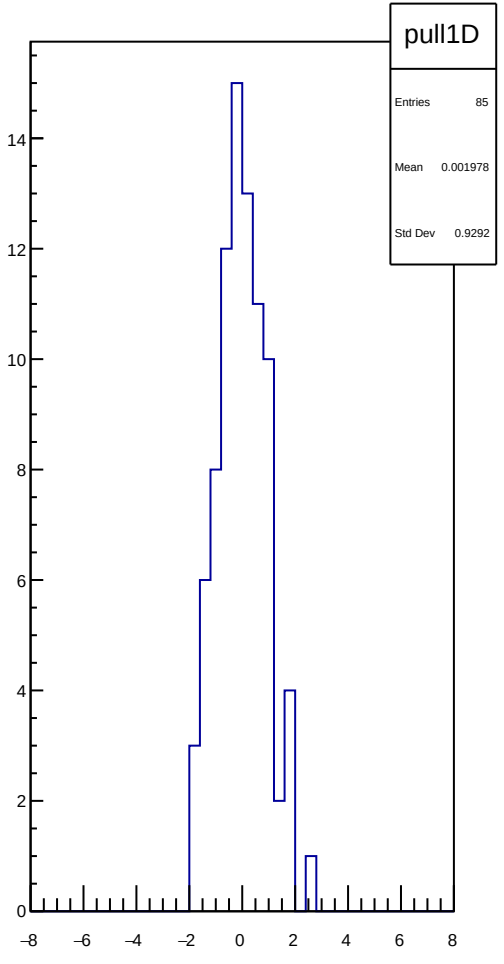

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.163e+04 / 84
p0 0.004916 ± 3.856e−06
0.006
0.0055
0.005
0.0045
0.004

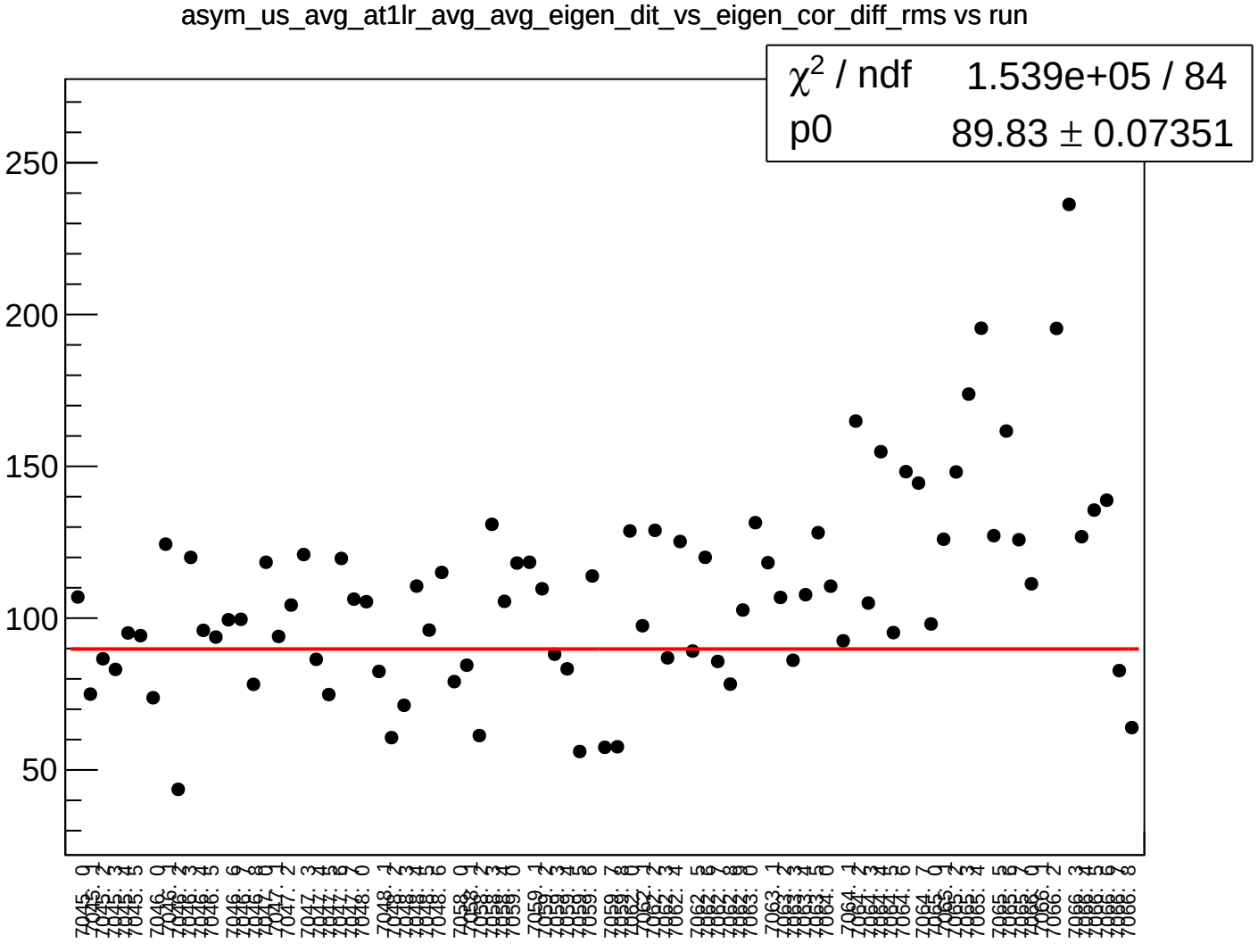

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.39 / 84
p0 −0.1513 ± 0.104
pull
Entries 85
Mean −157.9
Std Dev 0

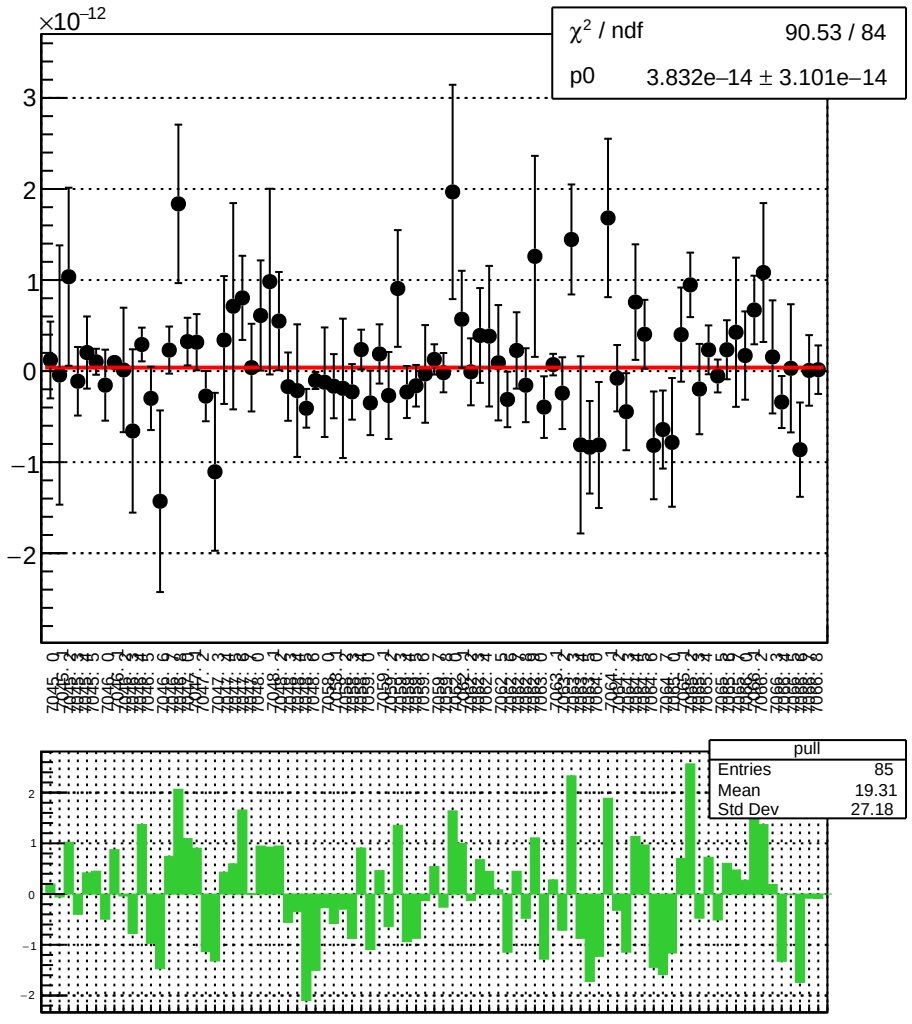

pull1D
Entries 85
Mean 0.001978
Std Dev 0.9292

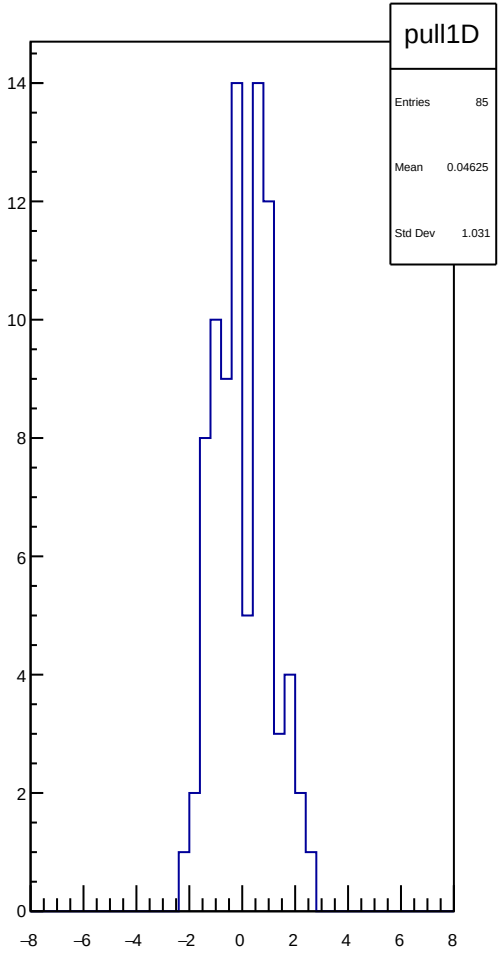

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 84
p0 89.83 ± 0.07351
250
200
150
100
50

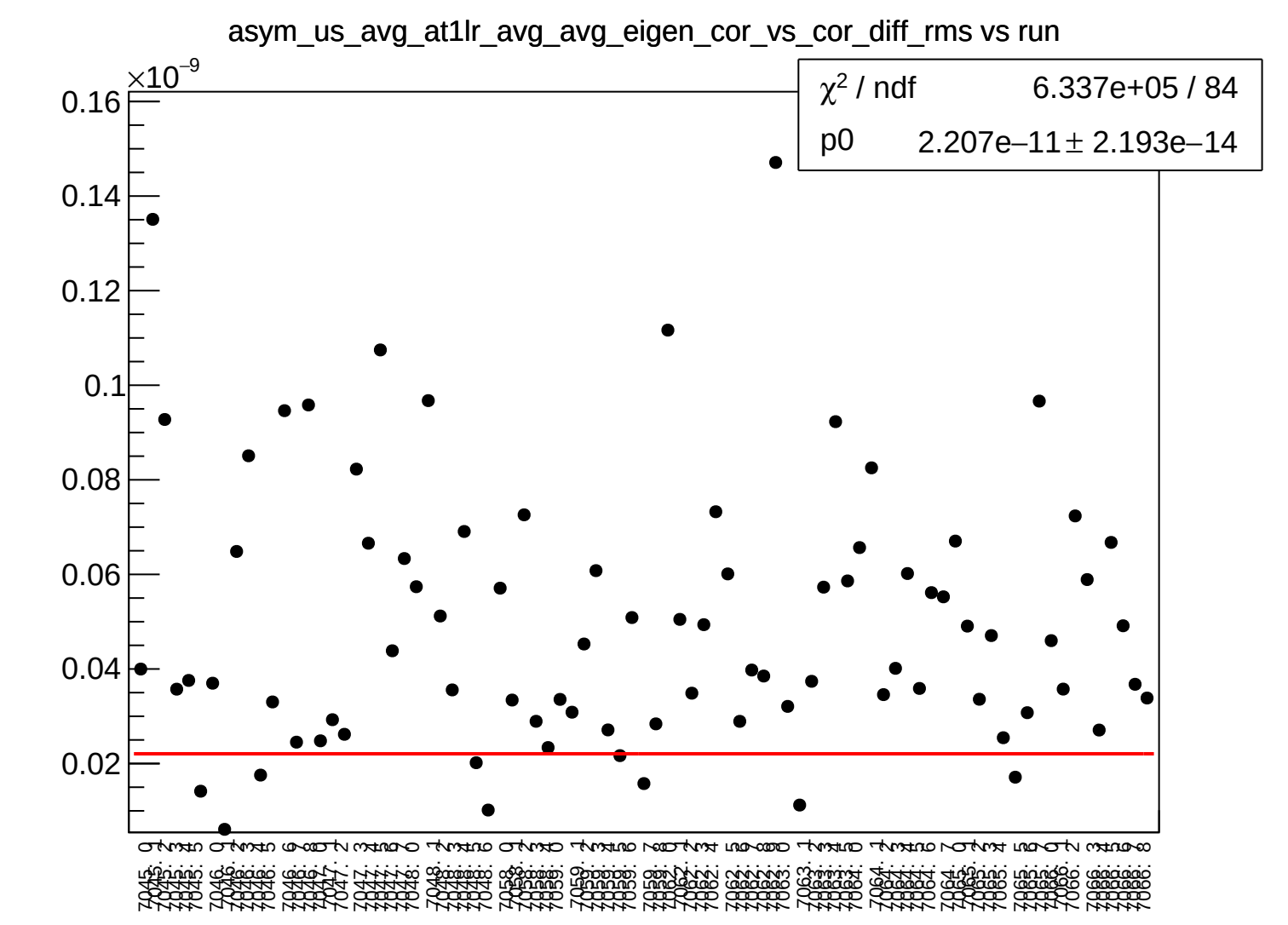

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.39 / 84
p0 −0.1513 ± 0.104
pull
Entries 85
Mean −157.9
Std Dev 0

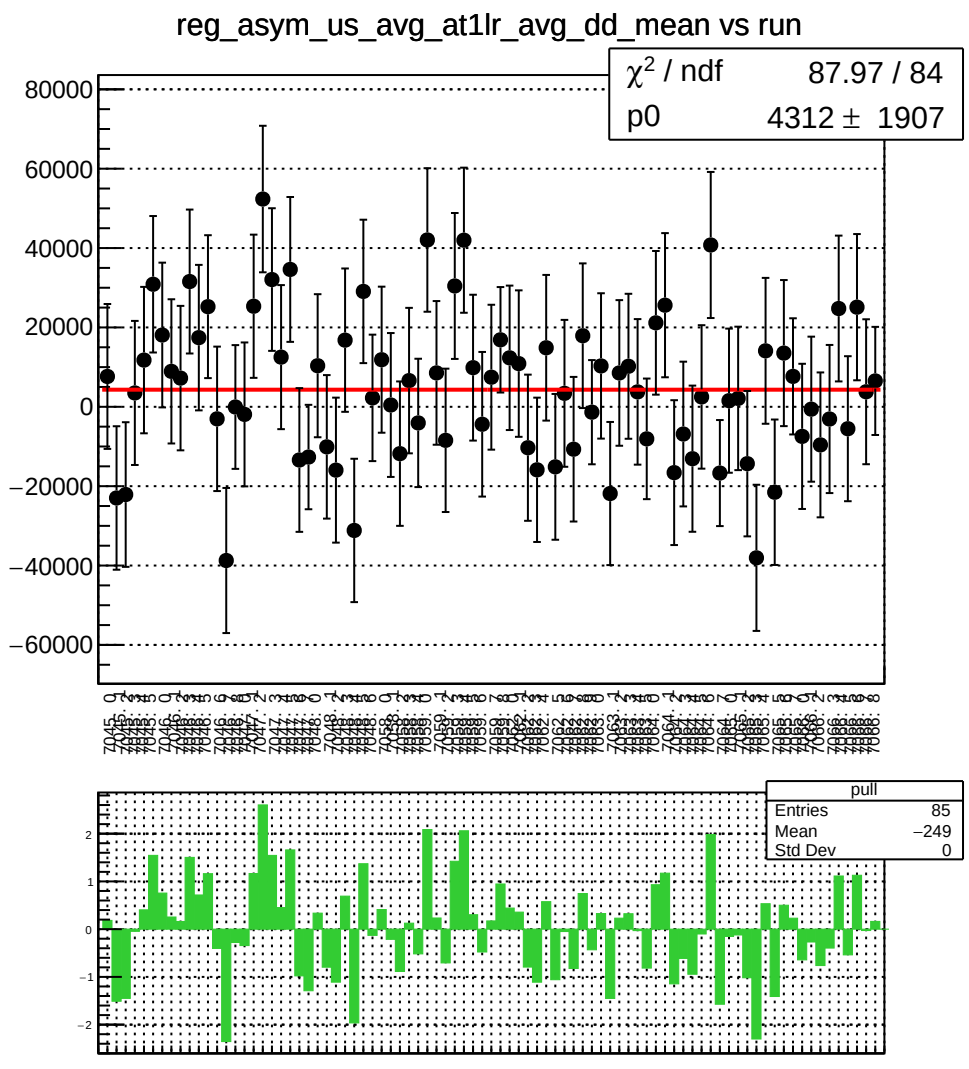

pull1D
Entries 85
Mean 0.001978
Std Dev 0.9292

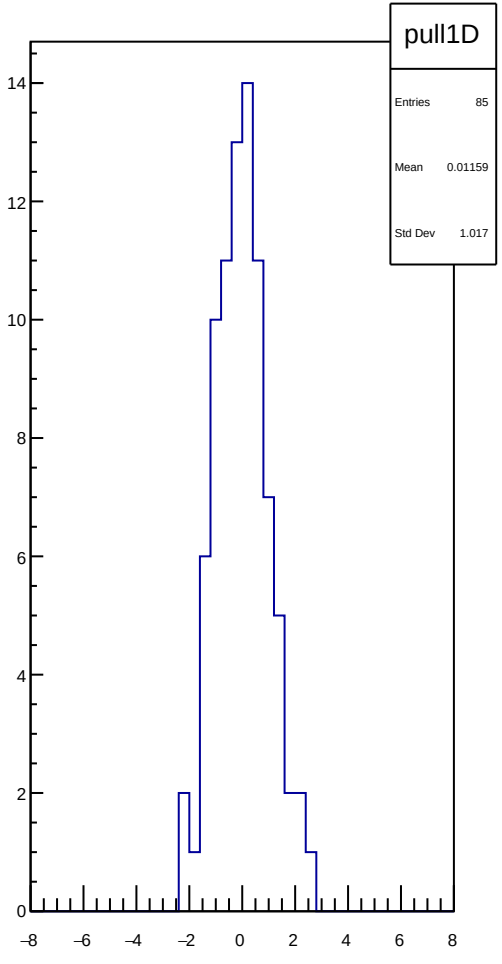

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 84
p0 89.83 ± 0.07351
250
200
150
100
50

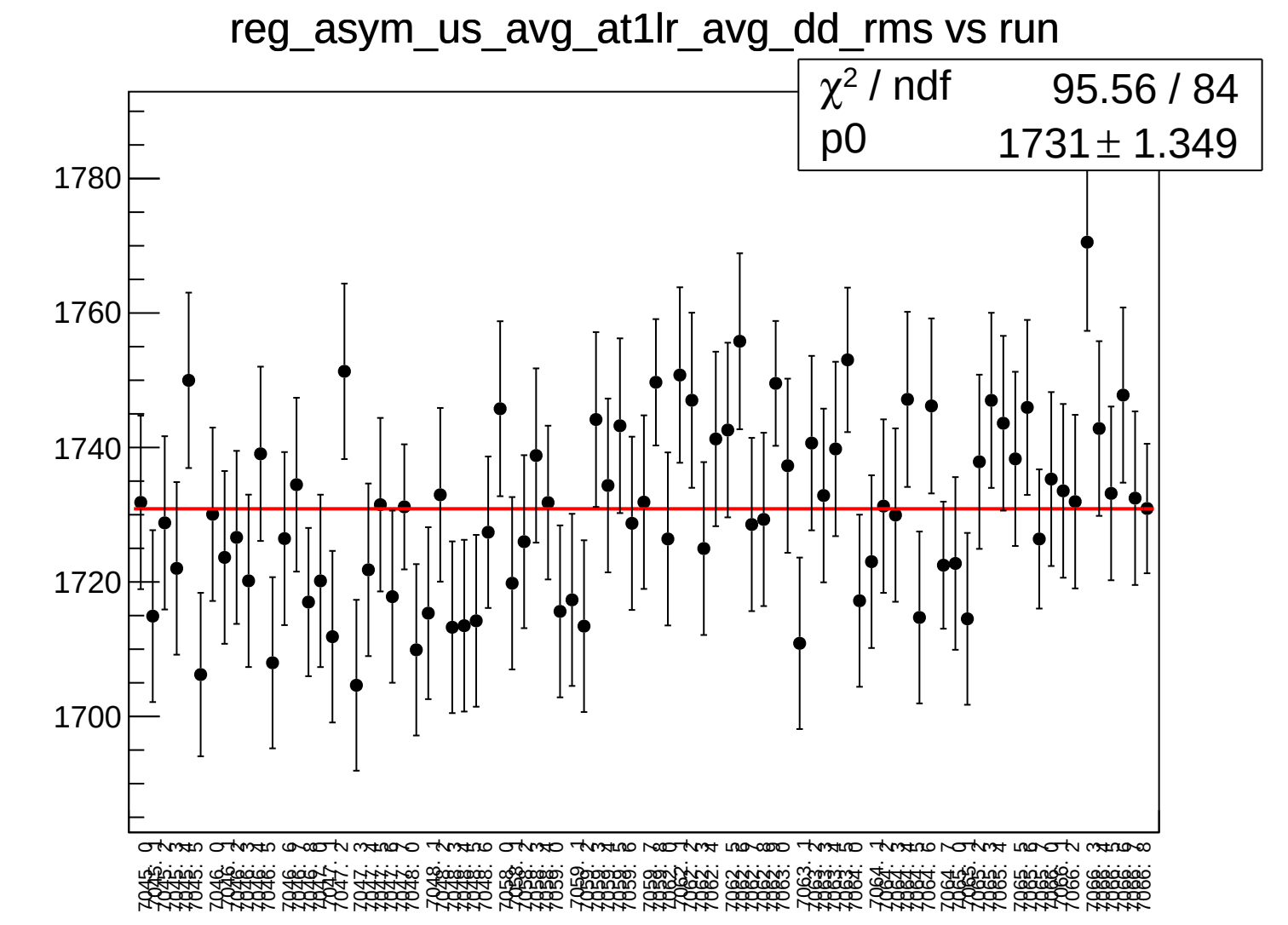

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.53 / 84
p0 3.832e−14 ± 3.101e−14
pull
Entries 85
Mean 19.31
Std Dev 27.18

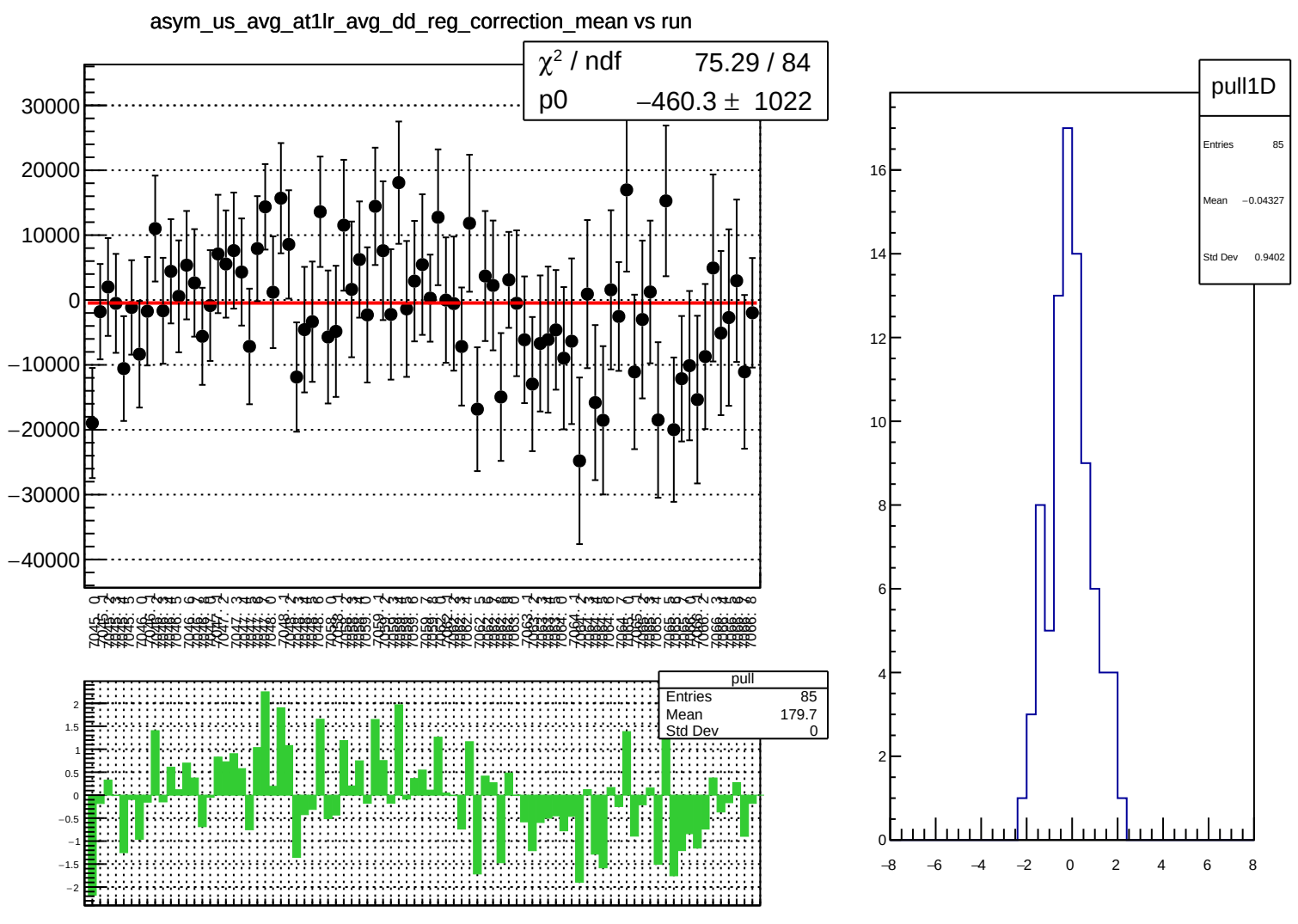

pull1D
Entries 85
Mean 0.04625
Std Dev 1.031

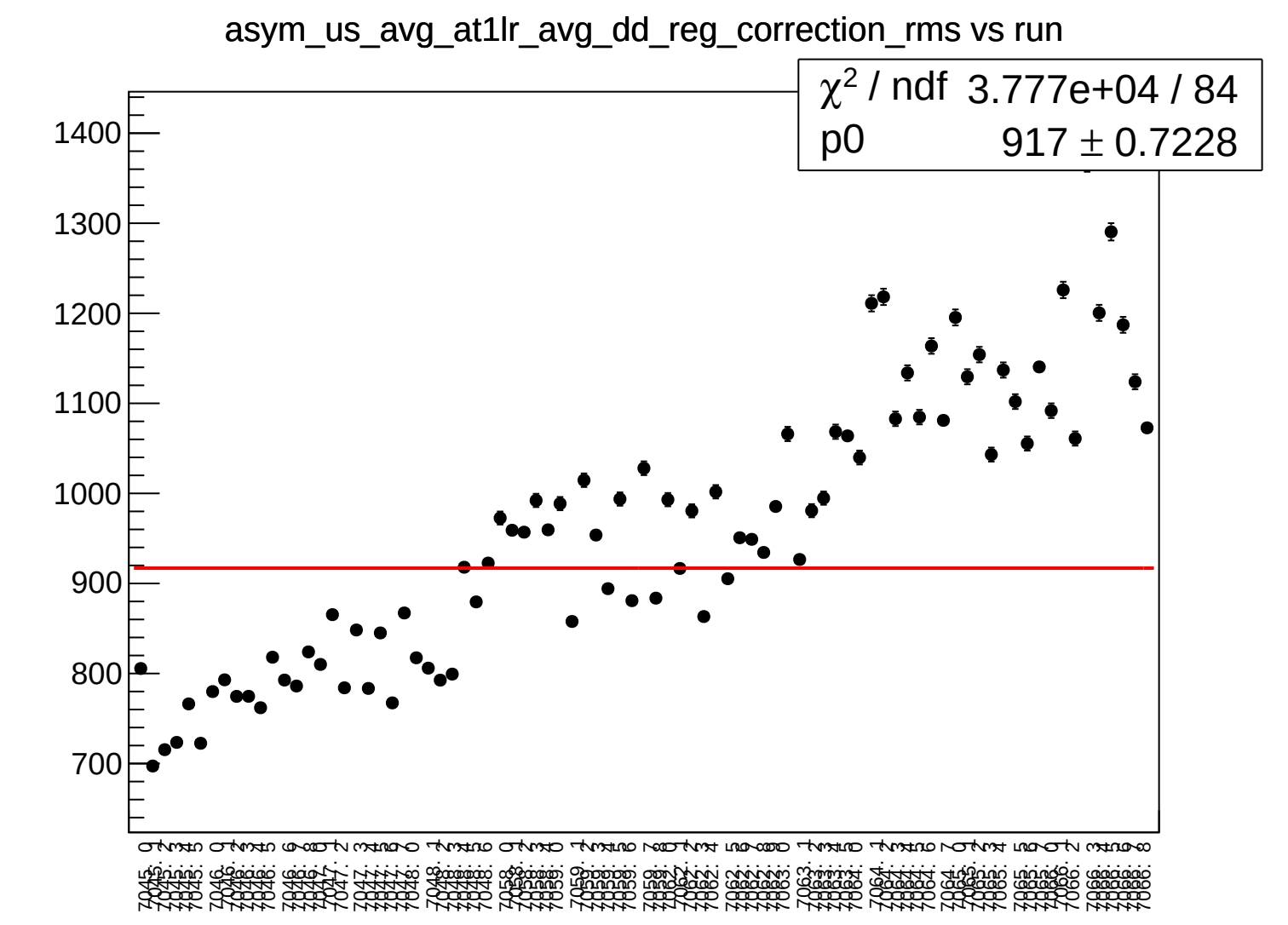

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.337e+05 / 84
p0 2.207e−11 ± 2.193e−14

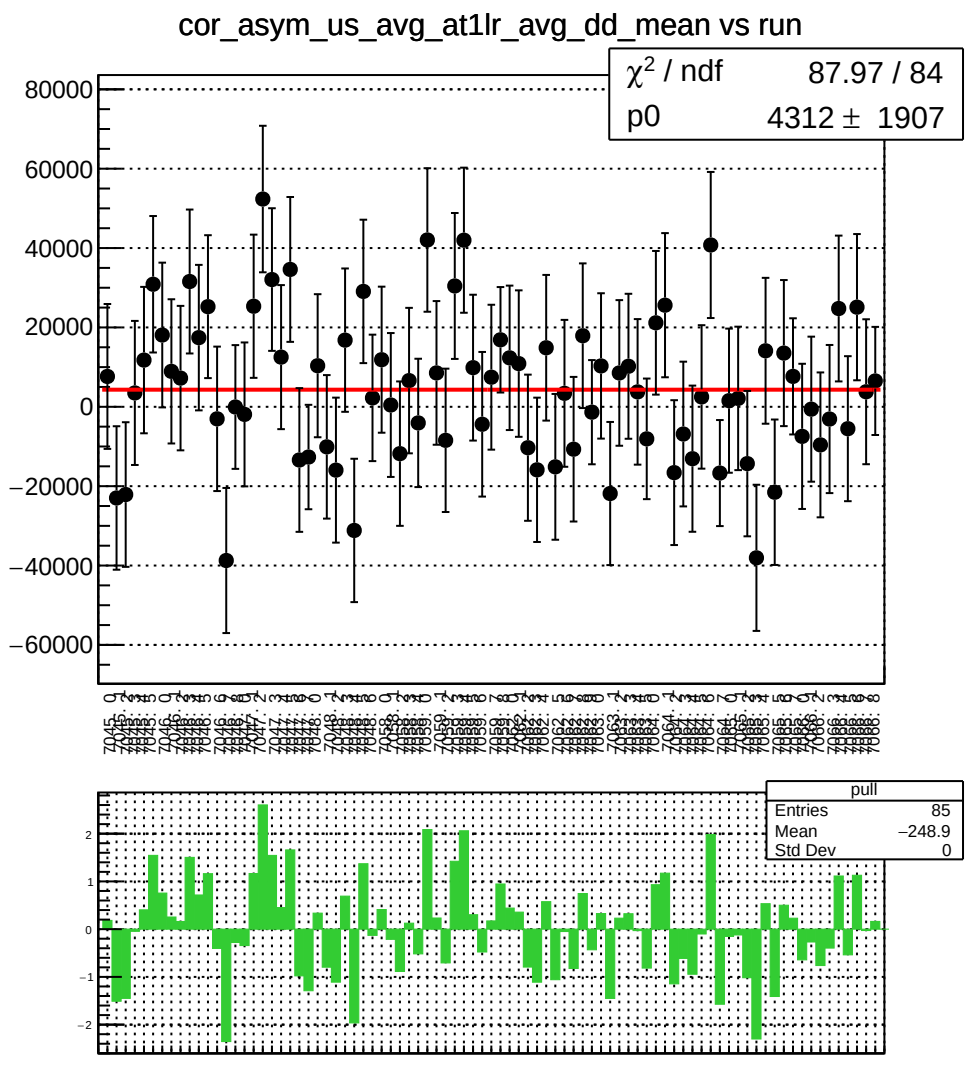

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.97 / 84
p0 4312 ± 1907
pull
Entries 85
Mean −249
Std Dev 0

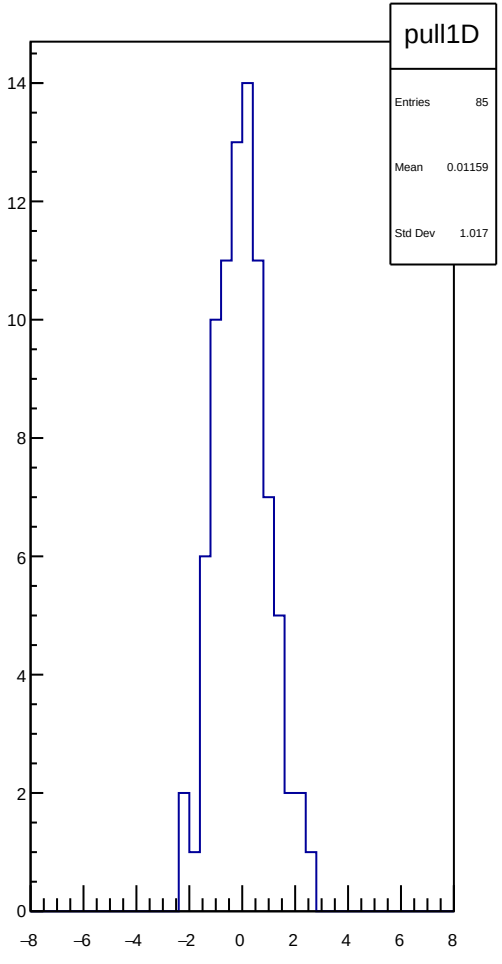

pull1D
Entries 85
Mean 0.01159
Std Dev 1.017

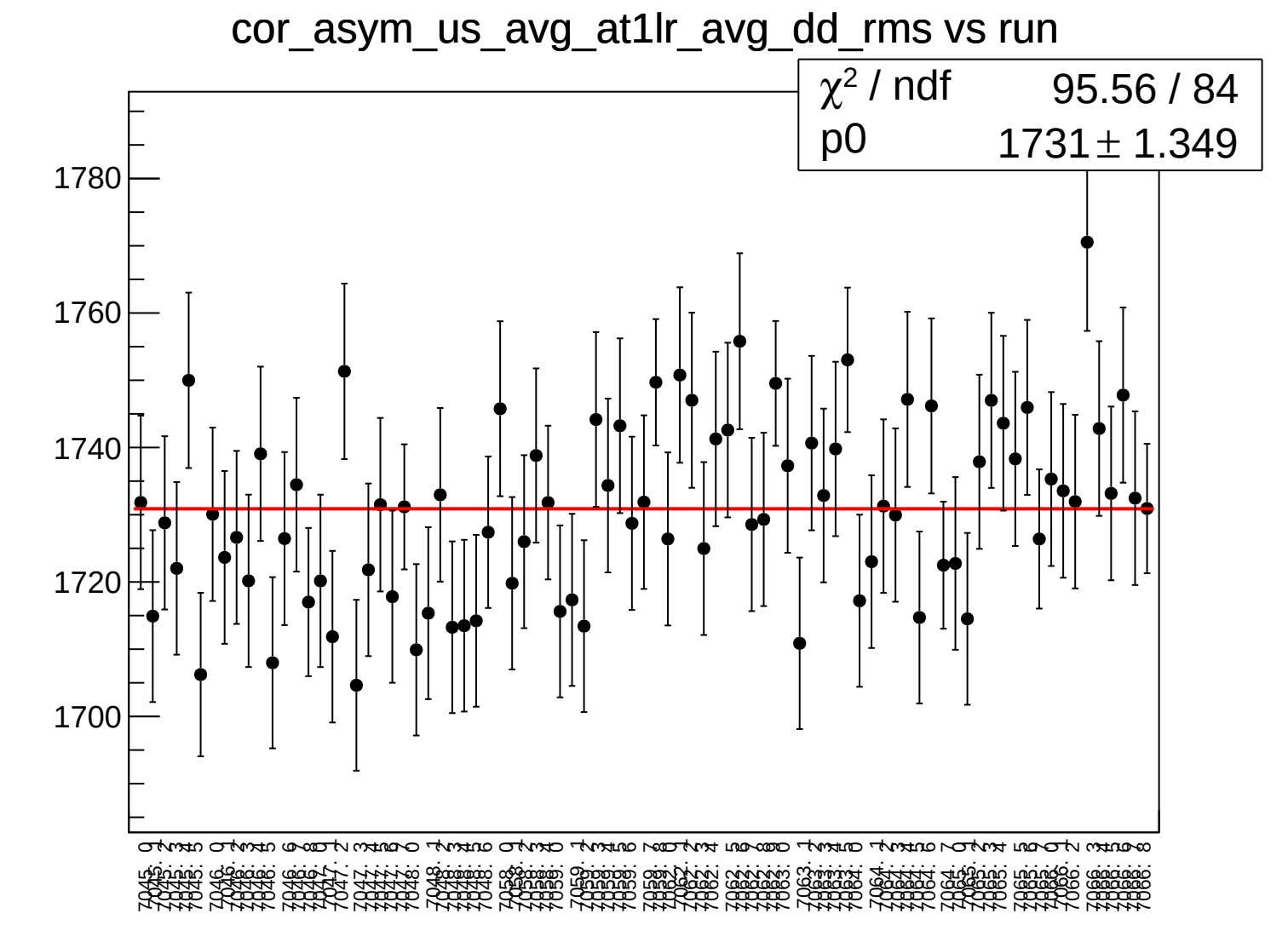

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 95.56 / 84
p0 1731 ± 1.349
1780
1760
1740
1720
1700

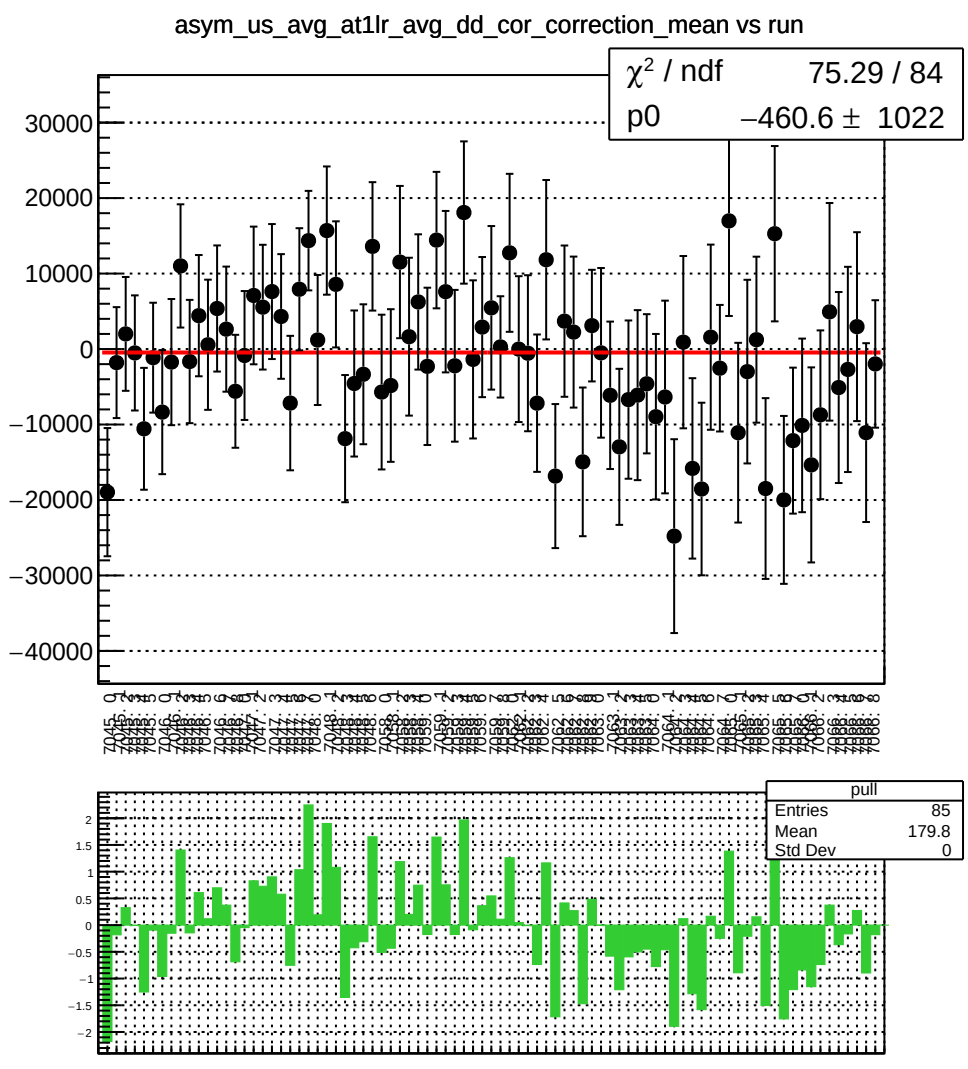

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 75.29 / 84
p0 −460.3 ± 1022
pull
Entries 85
Mean 179.7
Std Dev 0
pull1D
Entries 85
Mean −0.04327
Std Dev 0.9402

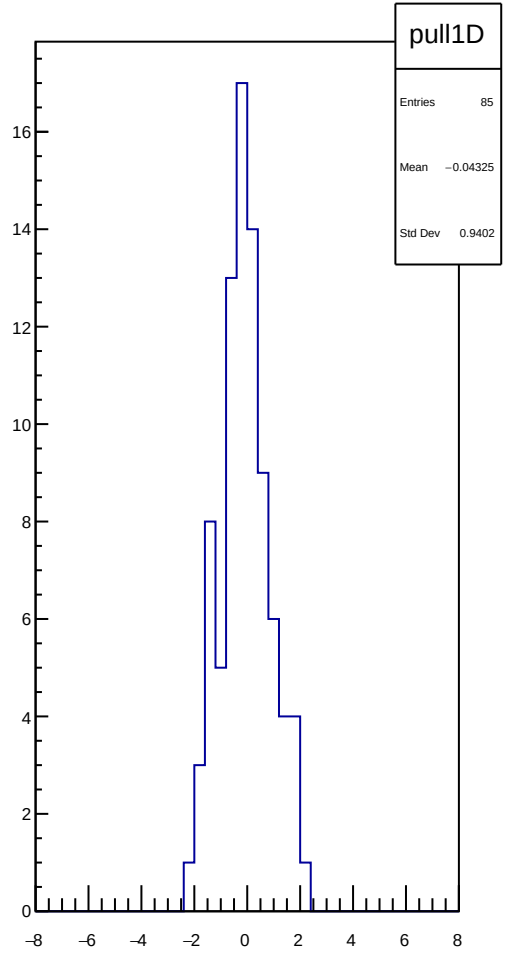

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.777e+04 / 84
p0 917 ± 0.7228
1400
1300
1200
1100
1000
900
800
700

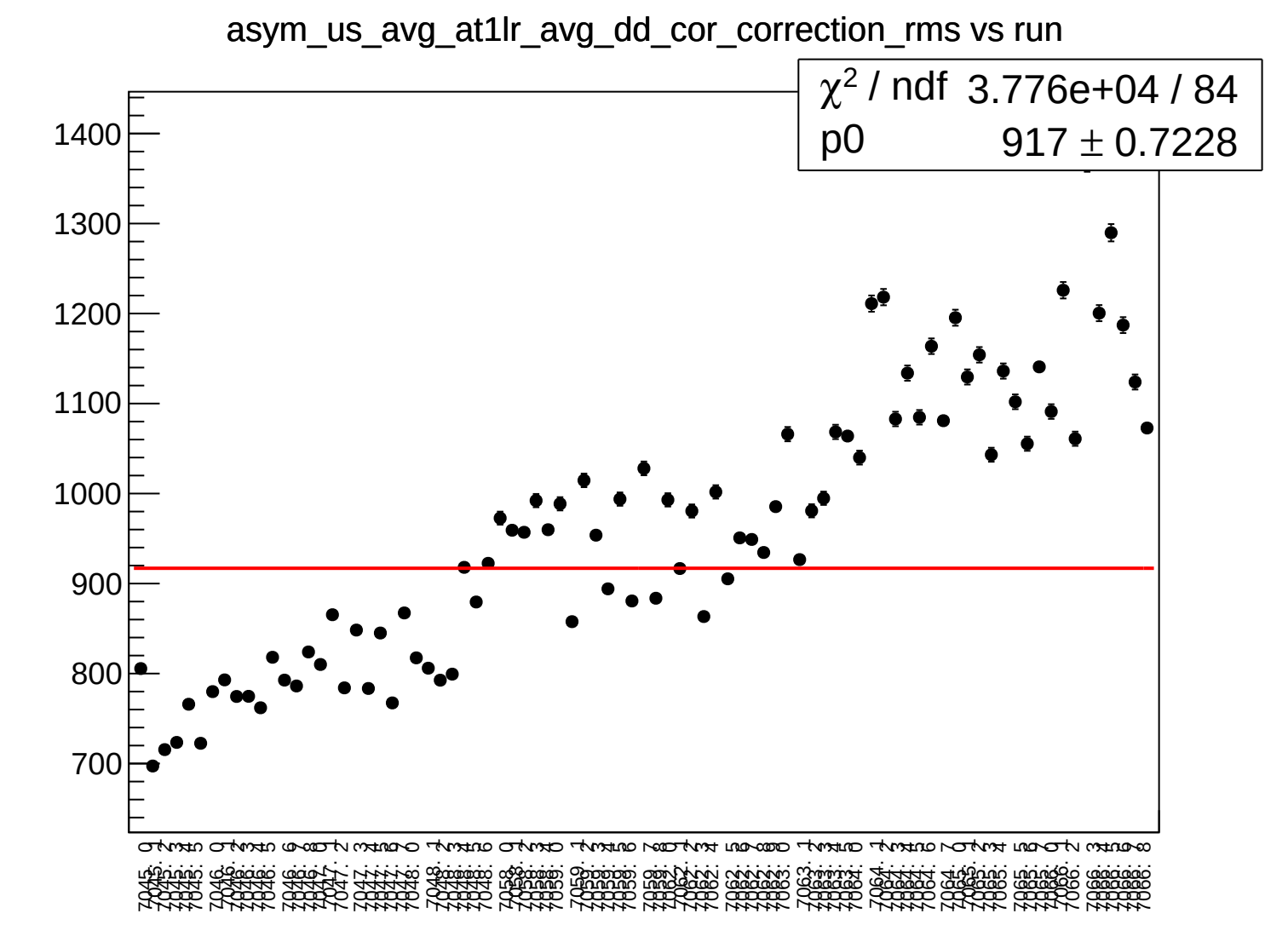

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.97 / 84
p0 4312 ± 1907
pull
Entries 85
Mean −248.9
Std Dev 0

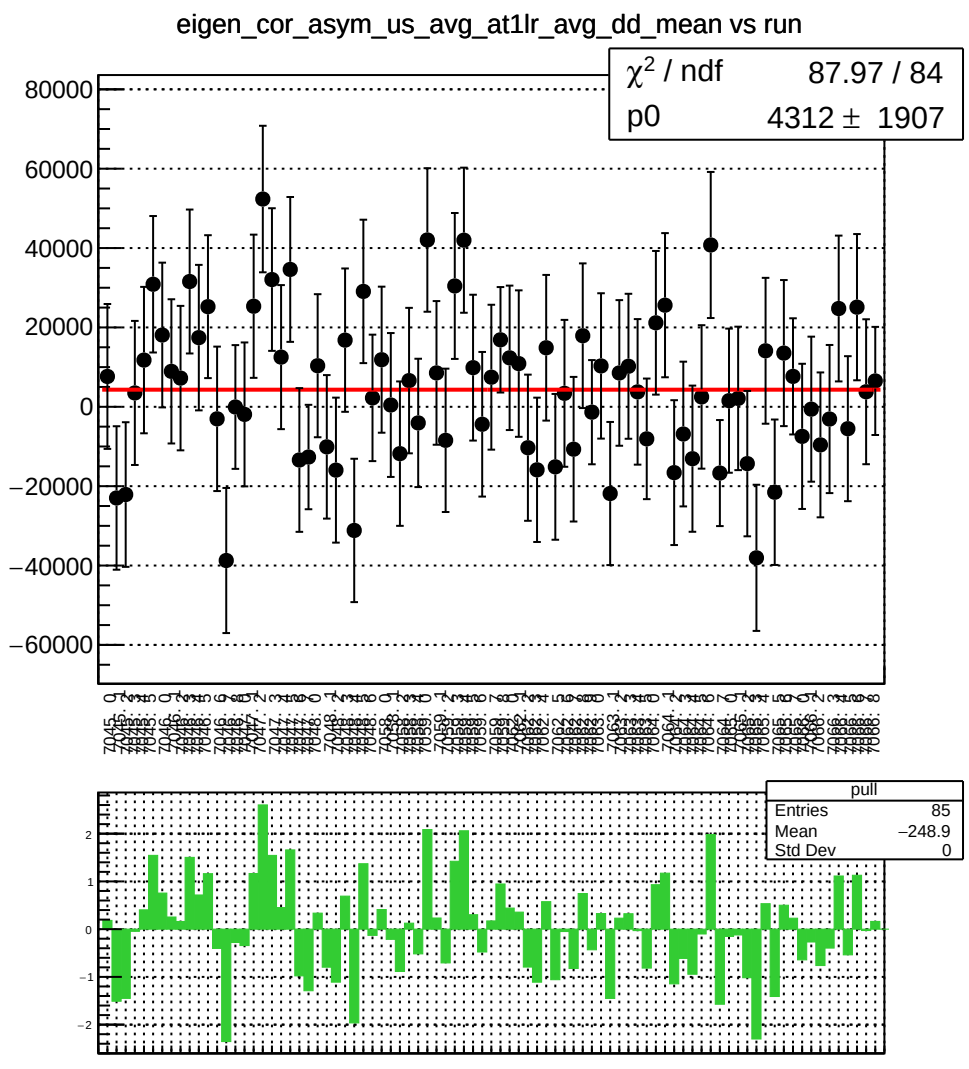

pull1D
Entries 85
Mean 0.01159
Std Dev 1.017

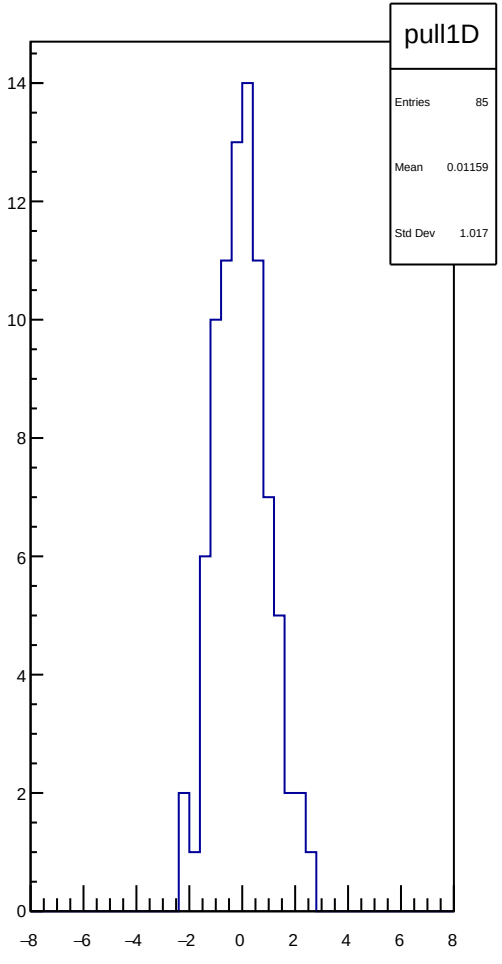

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 95.56 / 84
p0 1731 ± 1.349
1780
1760
1740
1720
1700

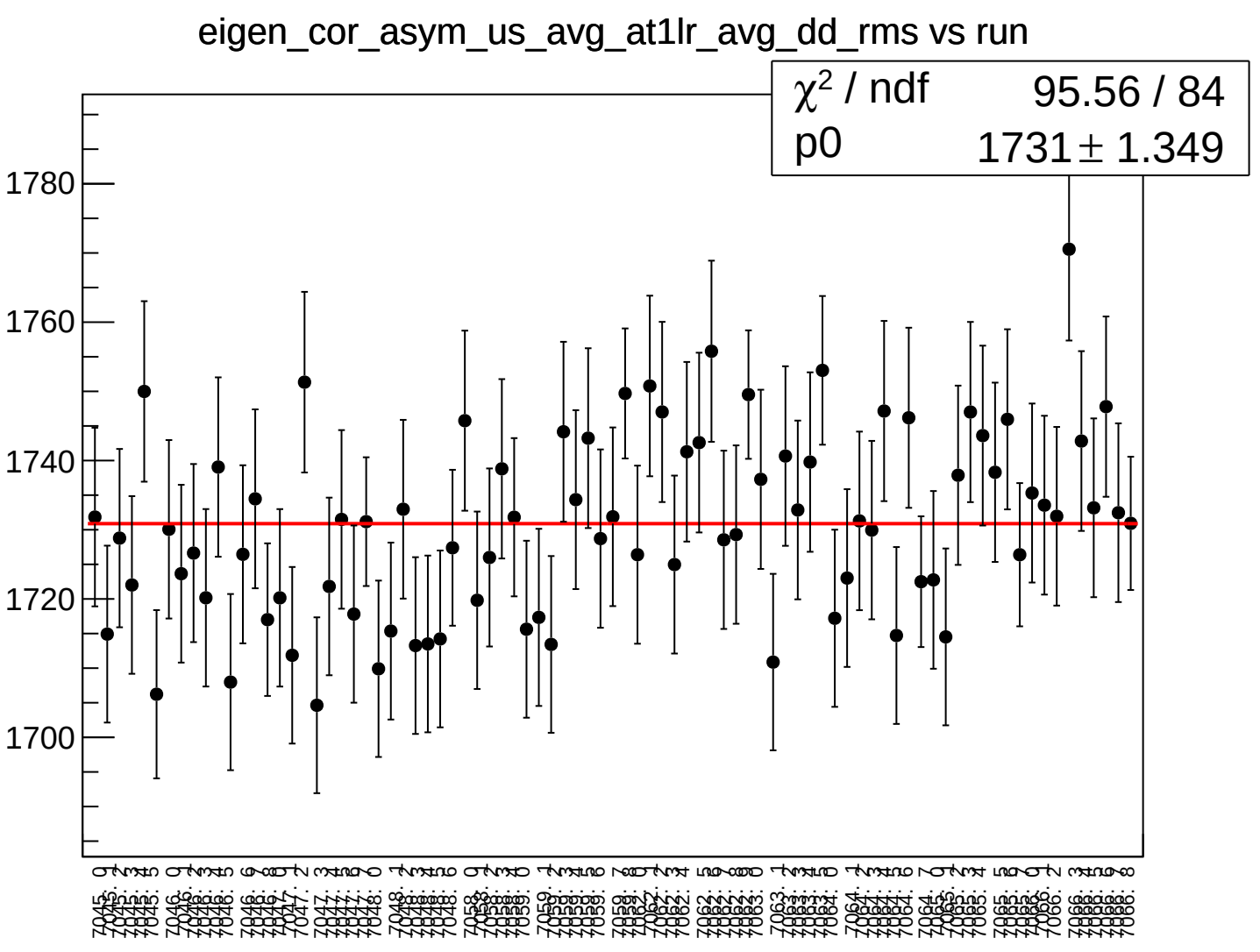

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 75.29 / 84
p0 −460.6 ± 1022
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 179.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

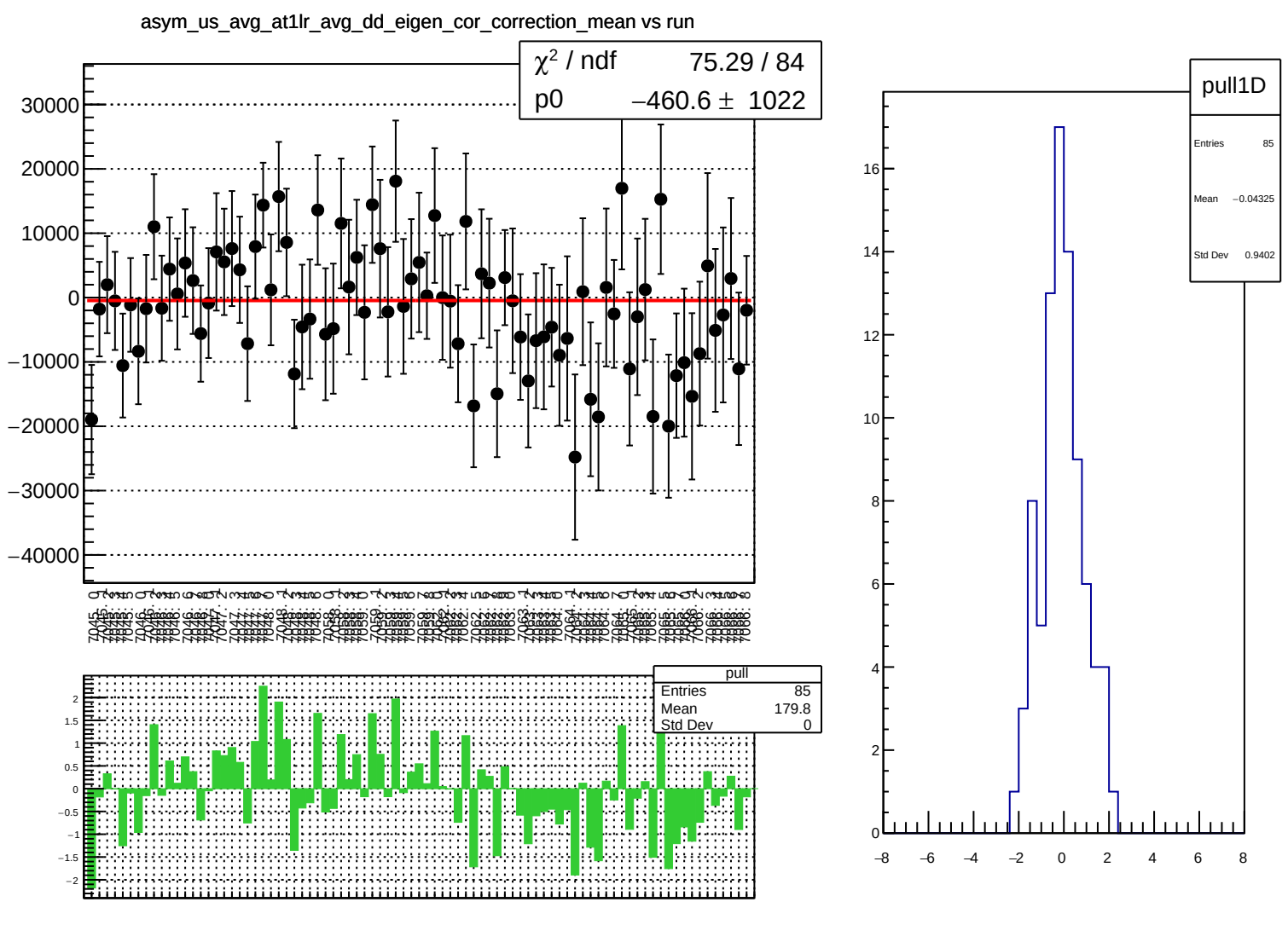

pull1D
Entries 85
Mean −0.04325
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

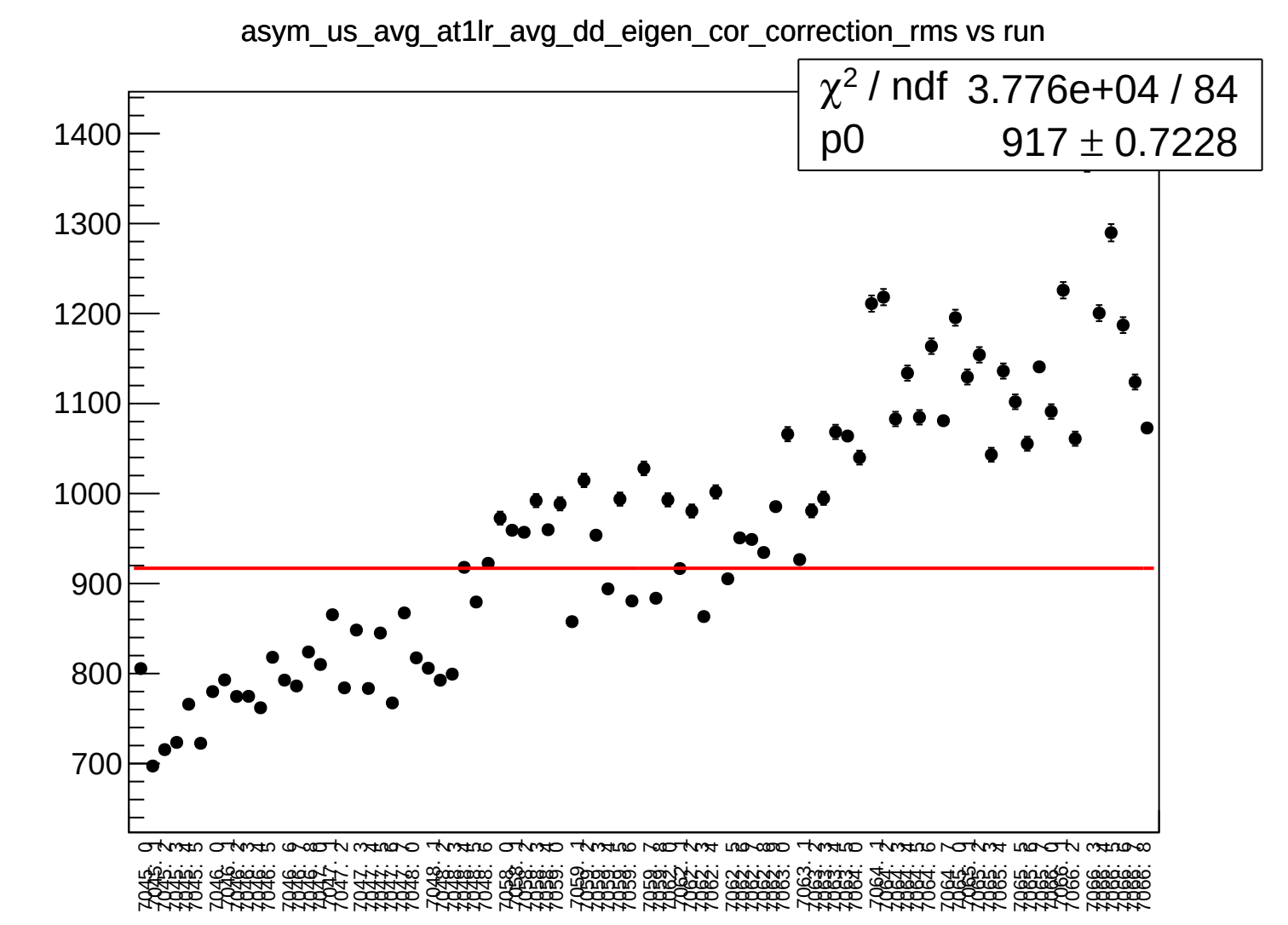

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.776e+04 / 84
p0 917 ± 0.7228
1400
1300
1200
1100
1000
900
800
700

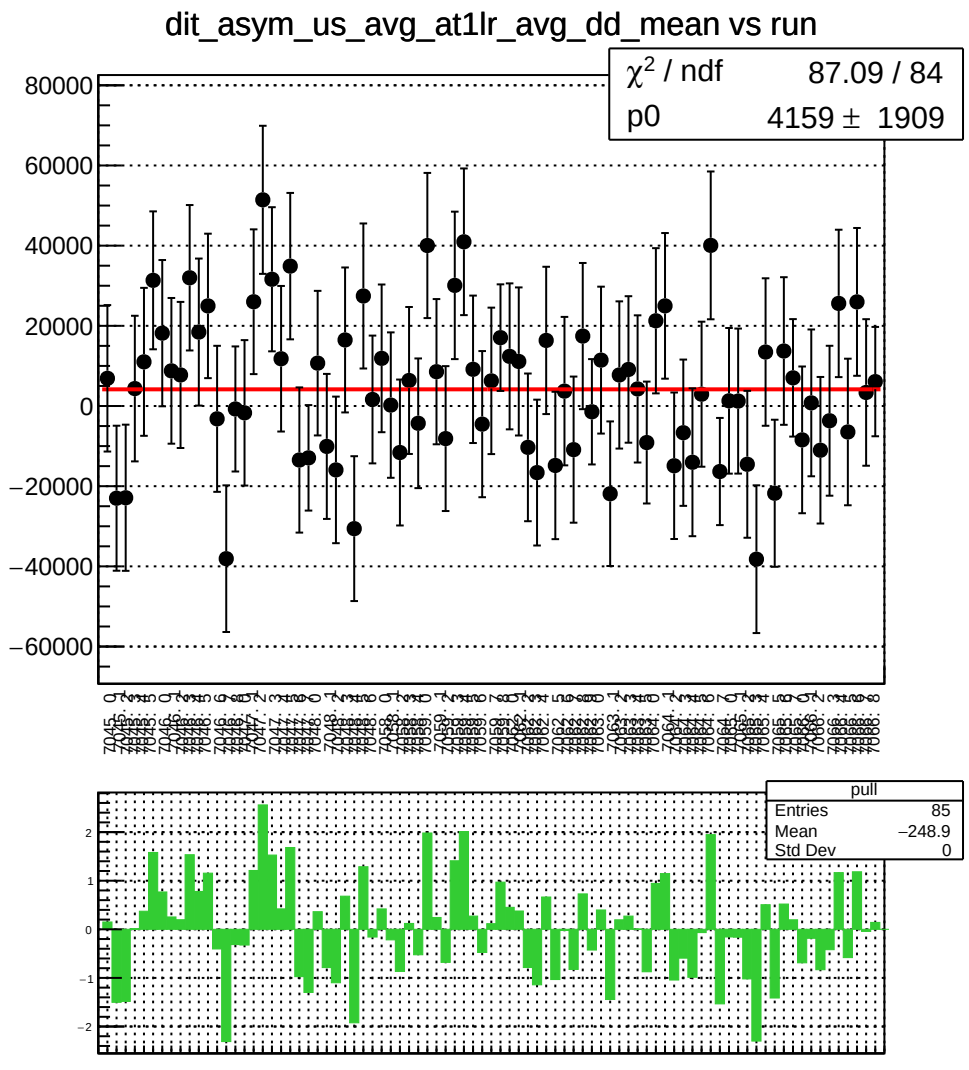

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.97 / 84
p0 4312 ± 1907
pull
Entries 85
Mean −248.9
Std Dev 0

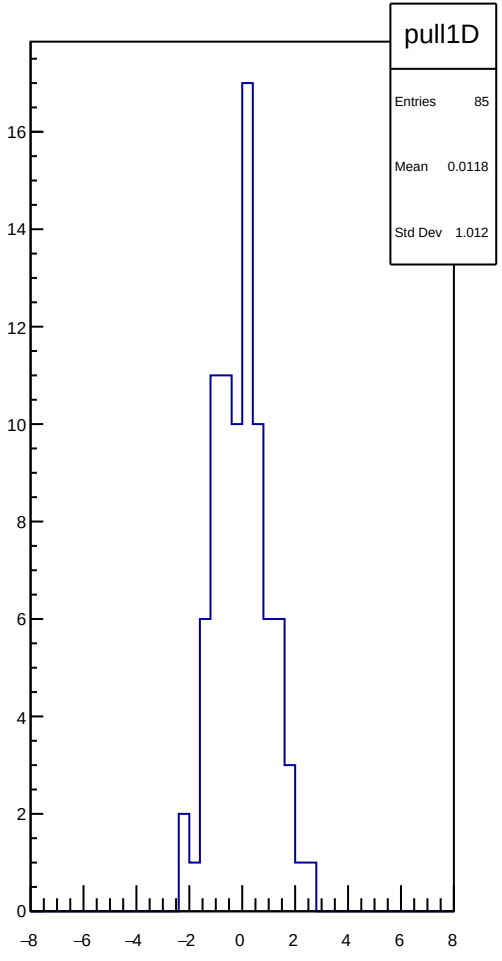

pull1D
Entries 85
Mean 0.01159
Std Dev 1.017

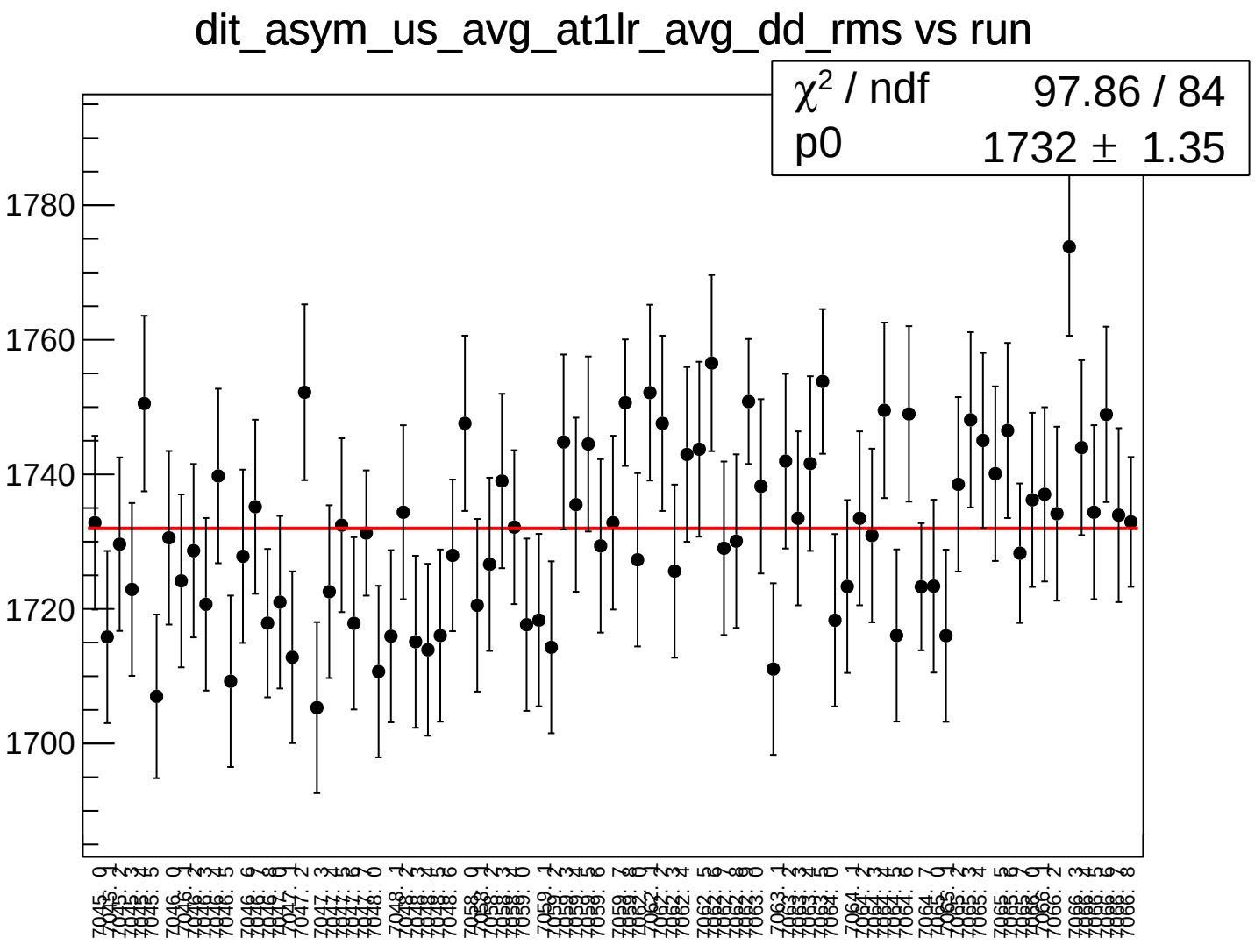

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 95.56 / 84
p0 1731 ± 1.349
1780
1760
1740
1720
1700

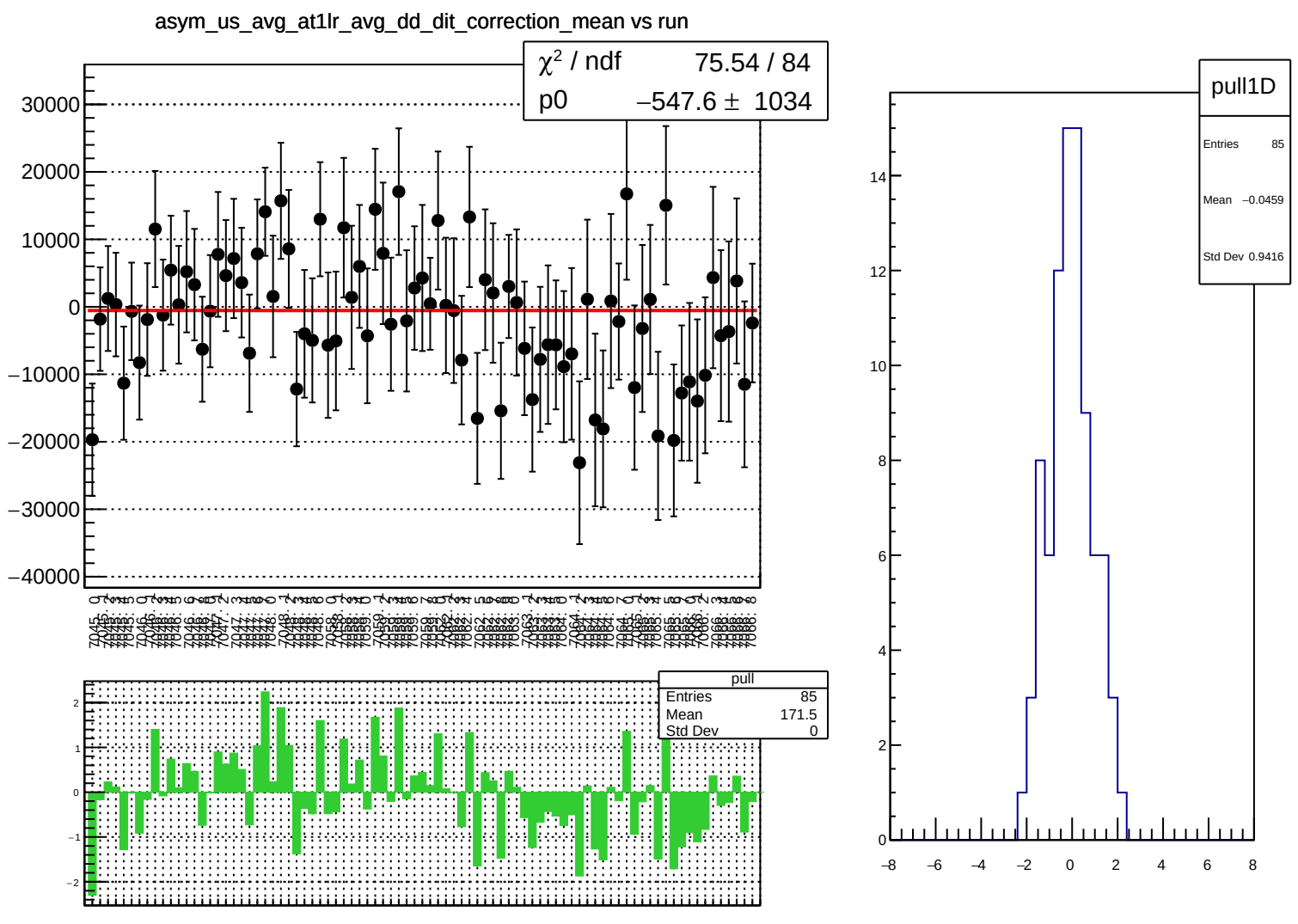

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.29 / 84
p0 −460.6 ± 1022
pull
Entries 85
Mean 179.8
Std Dev 0
pull1D
Entries 85
Mean −0.04325
Std Dev 0.9402

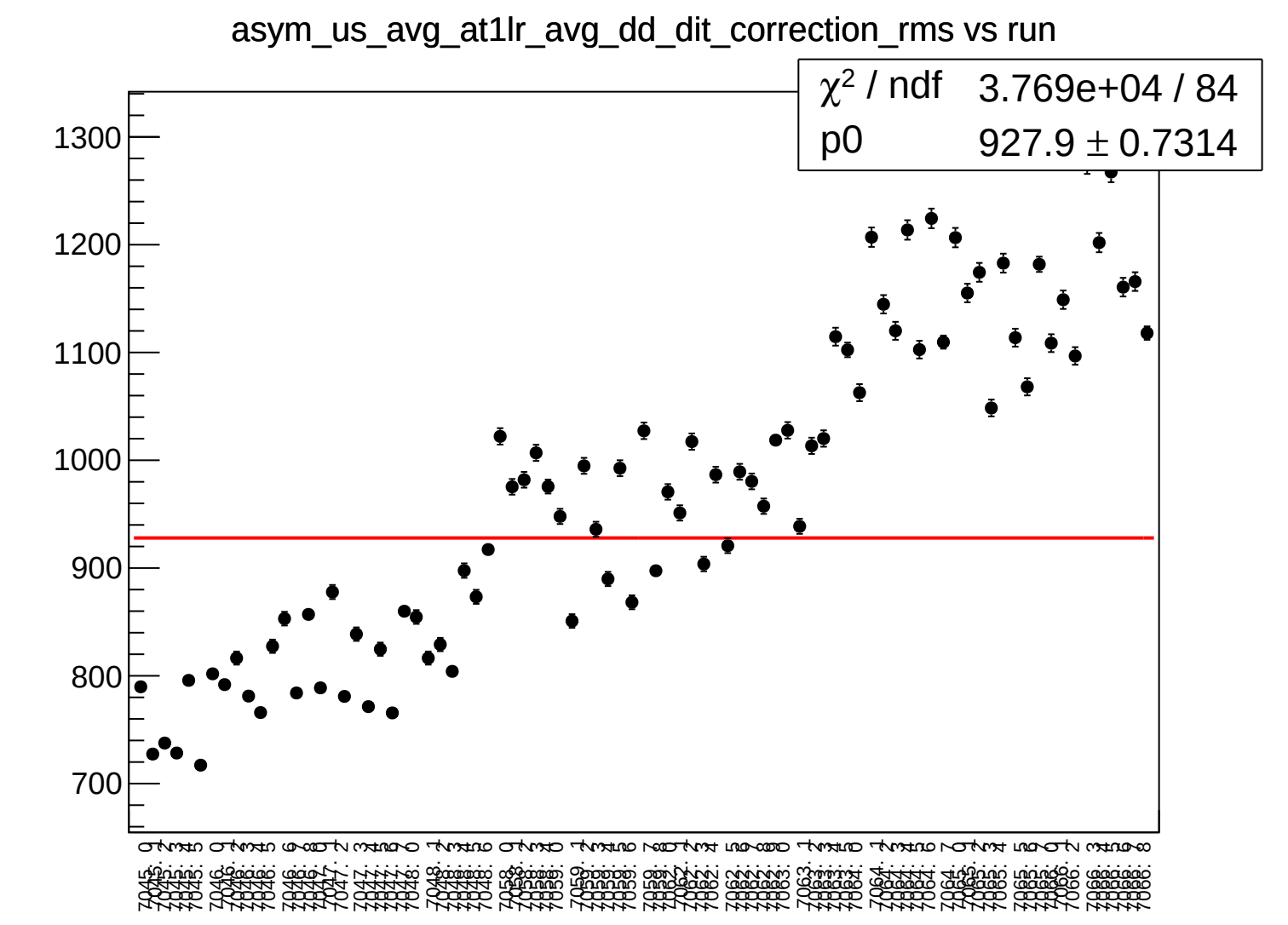

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.776e+04 / 84
p0 917 ± 0.7228
1400
1300
1200
1100
1000
900
800
700

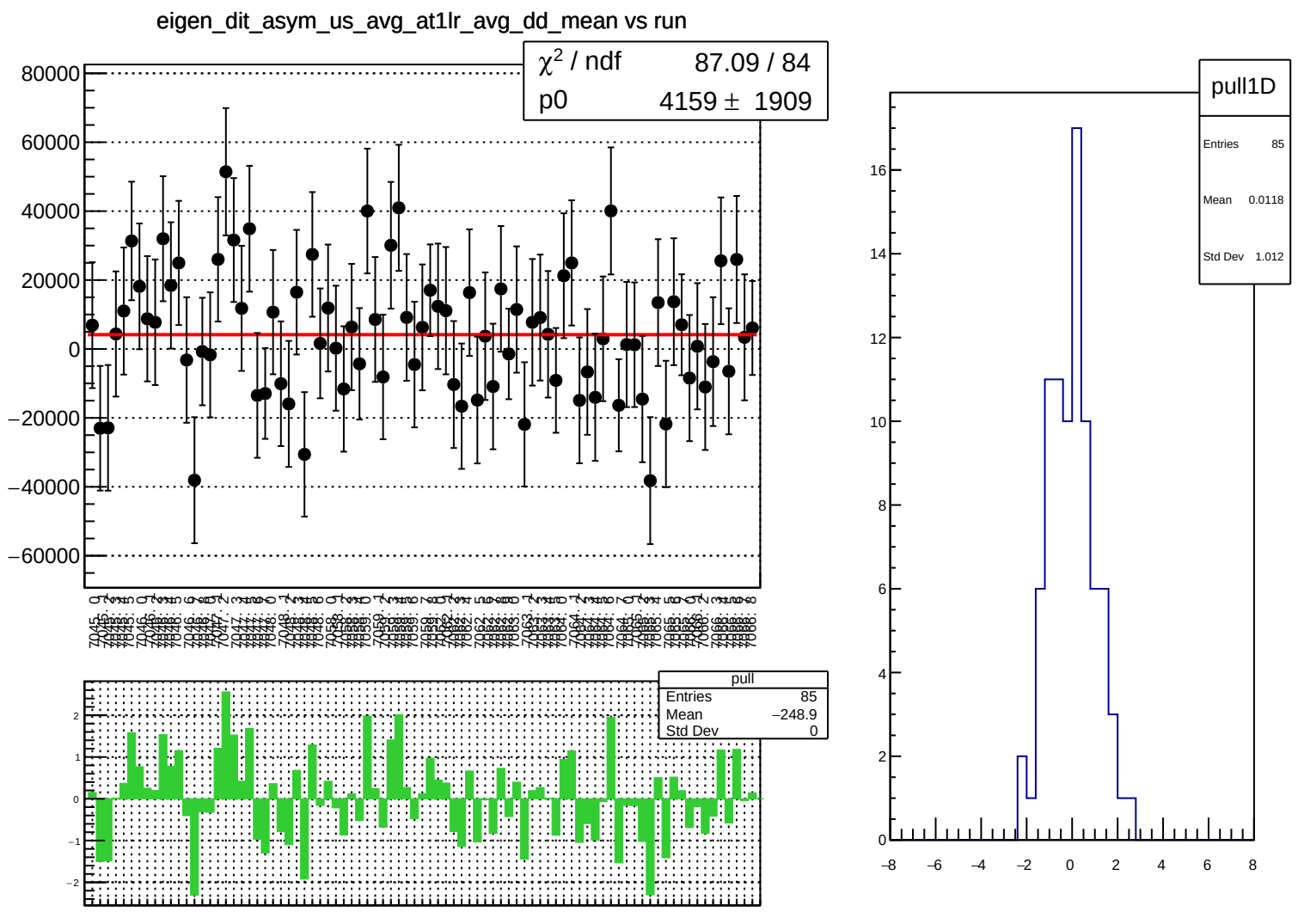

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.09 / 84
p0 4159 ± 1909
pull
Entries 85
Mean −248.9
Std Dev 0

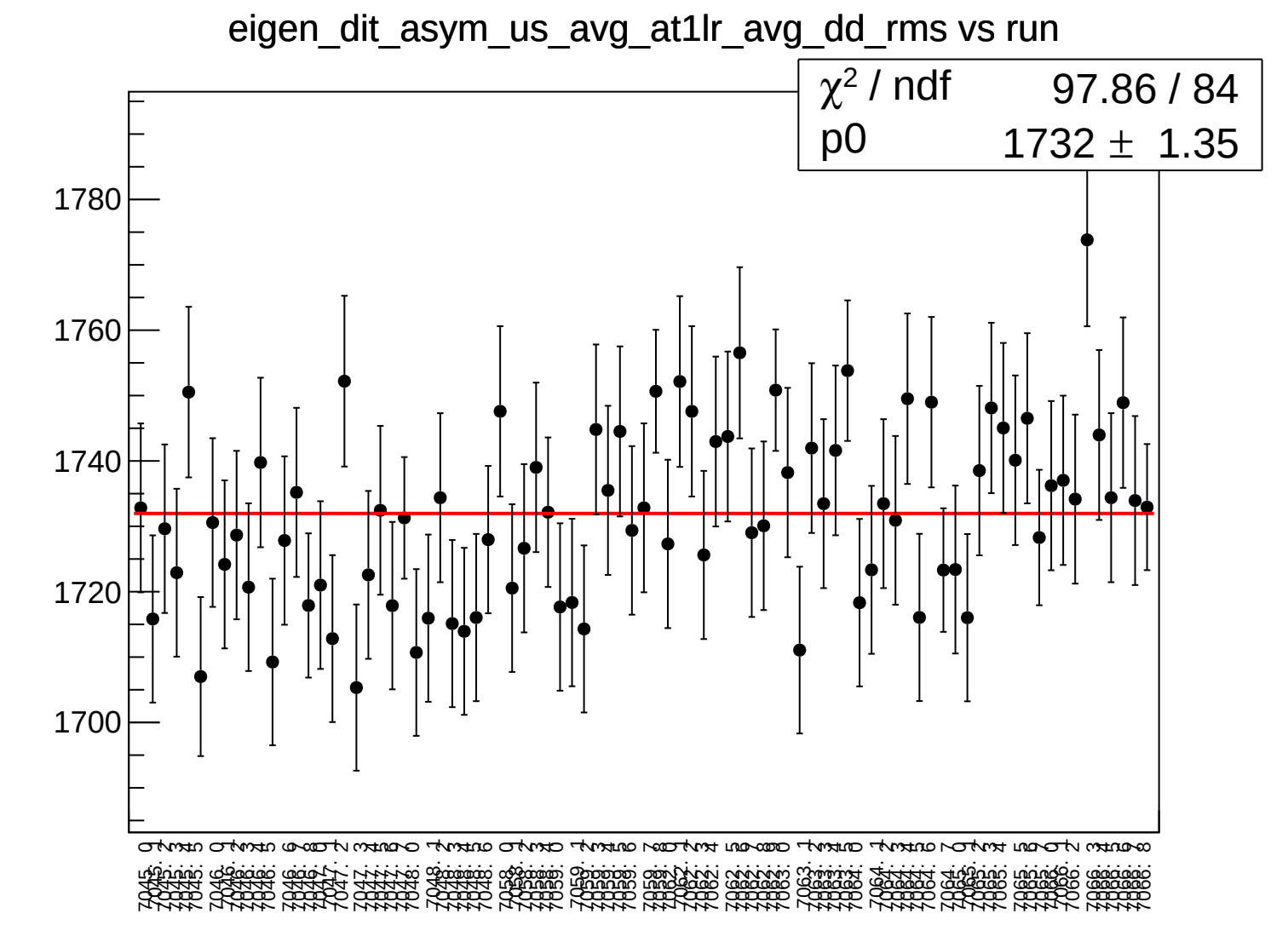

pull1D
Entries 85
Mean 0.0118
Std Dev 1.012

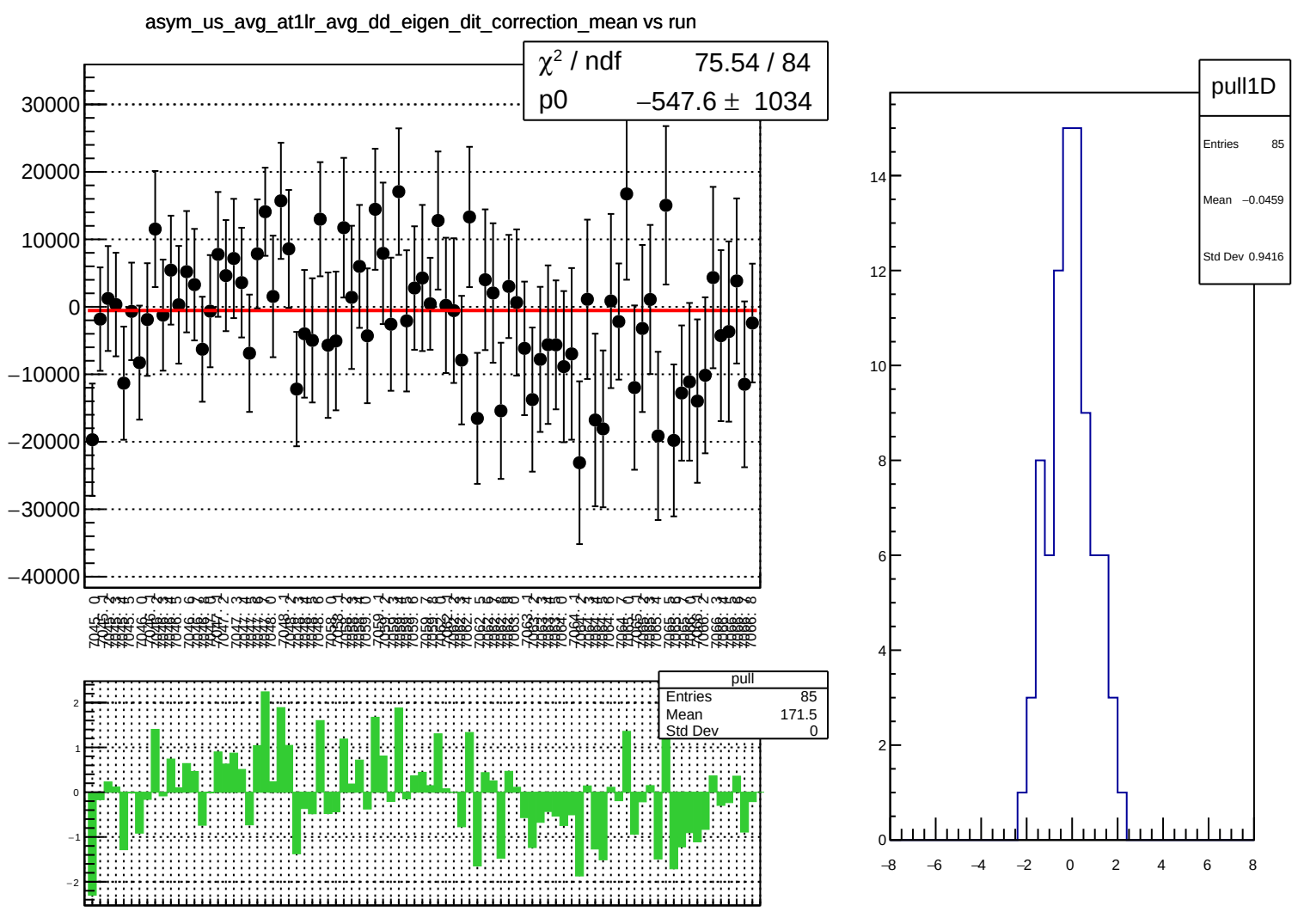

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 97.86 / 84
p0 1732 ± 1.35
1780
1760
1740
1720
1700

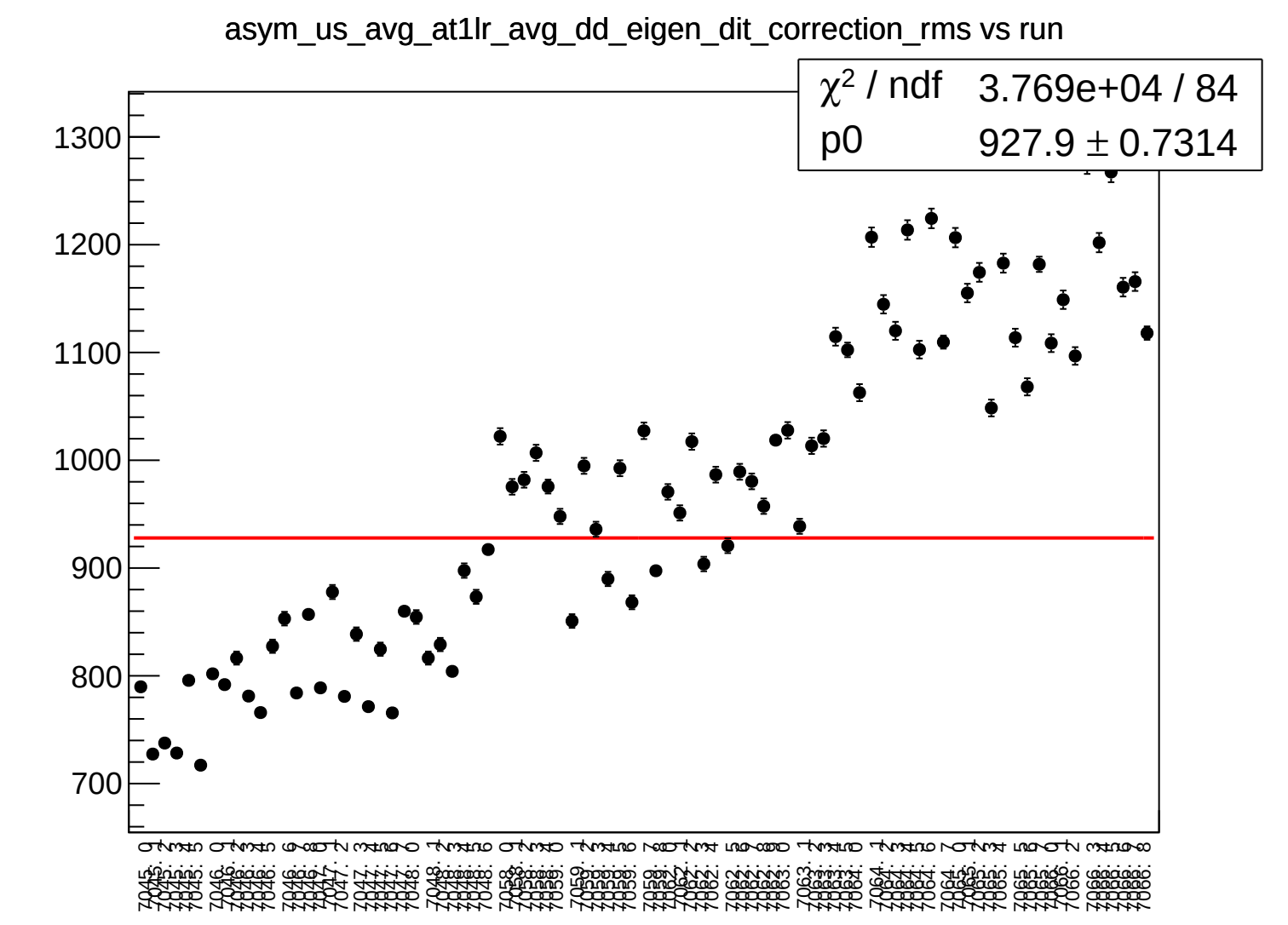

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 75.54 / 84
p0 −547.6 ± 1034
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 171.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.0459
Std Dev 0.9416
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

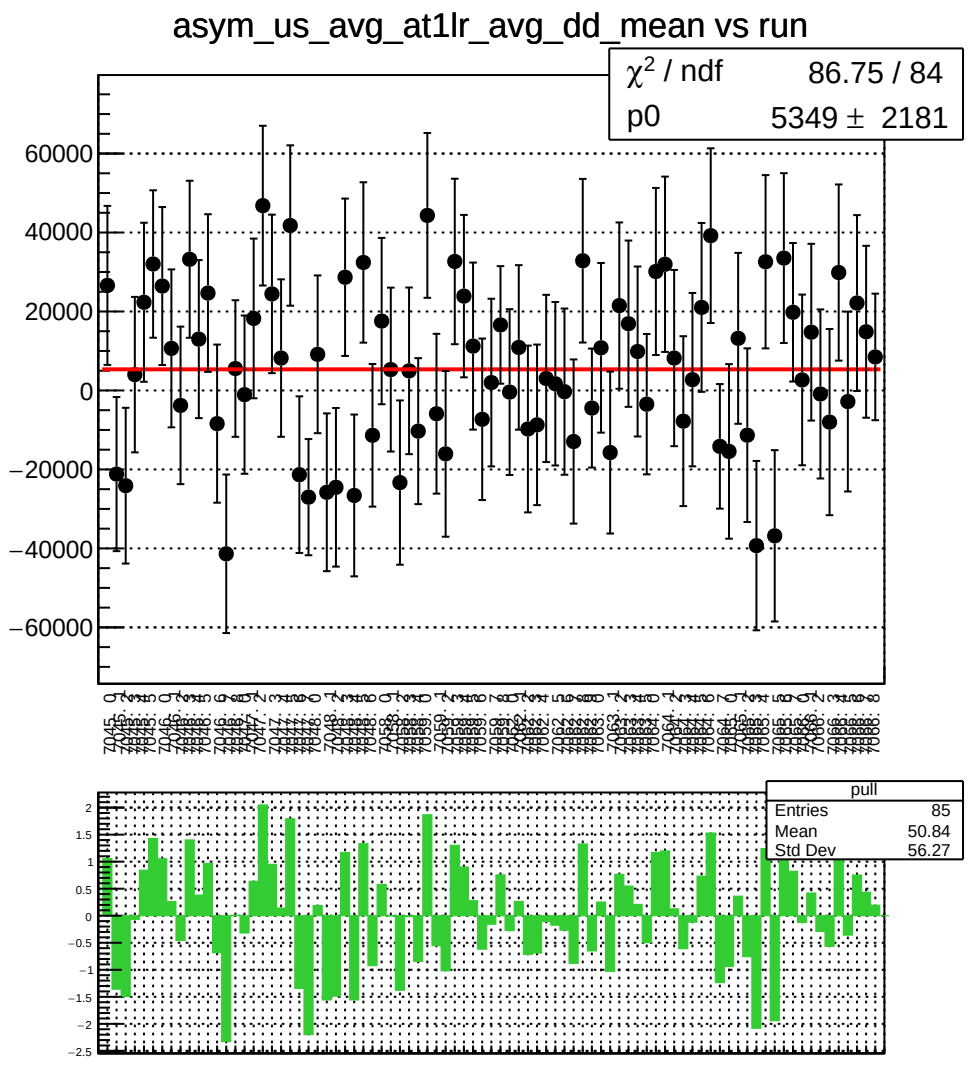

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.769e+04 / 84
p0 927.9 ± 0.7314
1300
1200
1100
1000
900
800
700

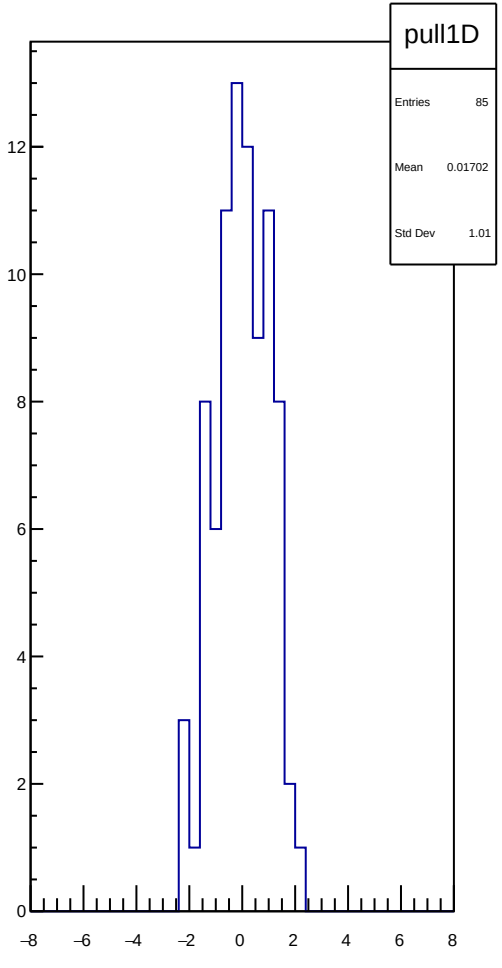

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.09 / 84
p0 4159 ± 1909
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −248.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.0118
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

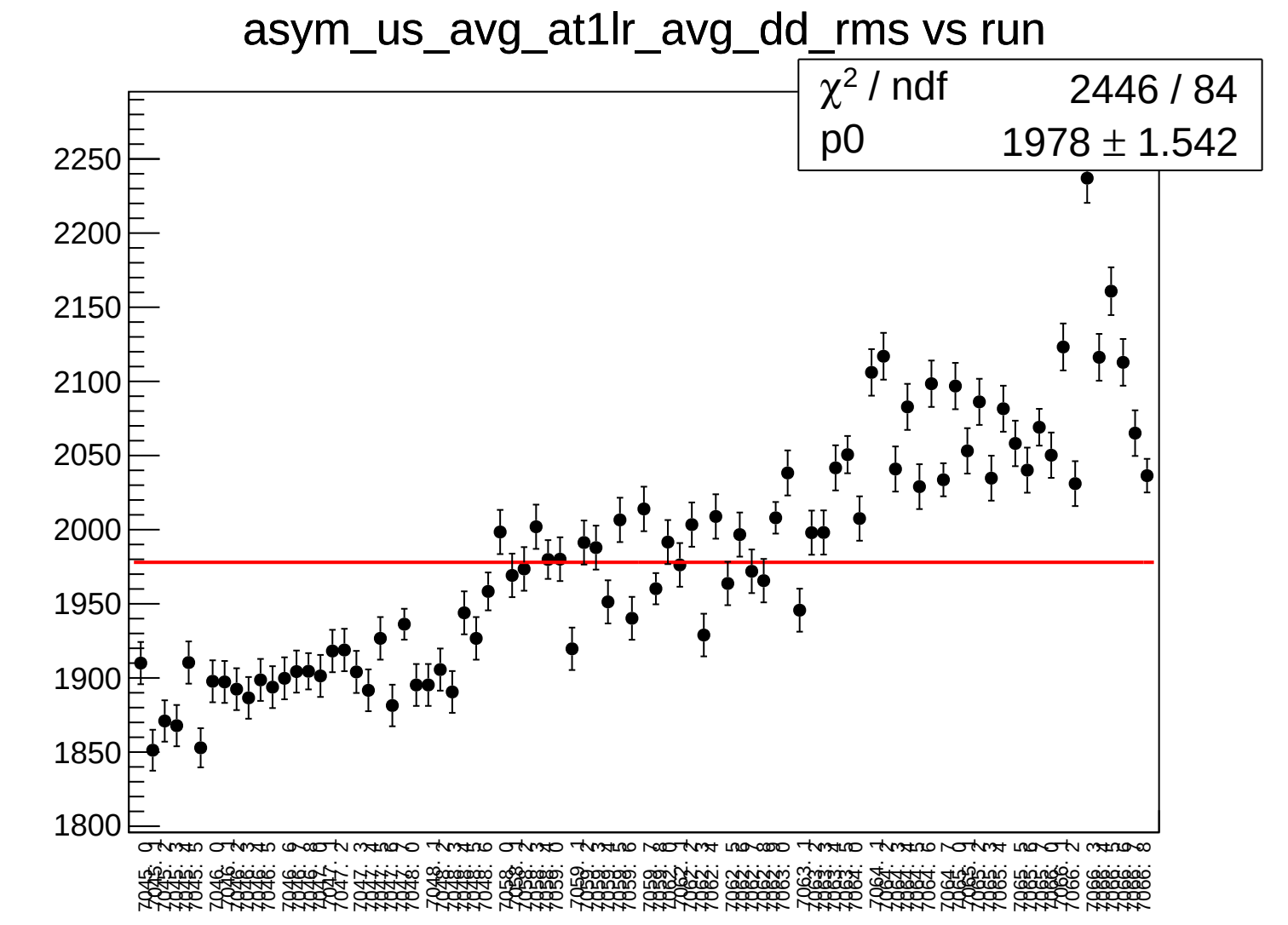

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 97.86 / 84
p0 1732 ± 1.35
1780
1760
1740
1720
1700

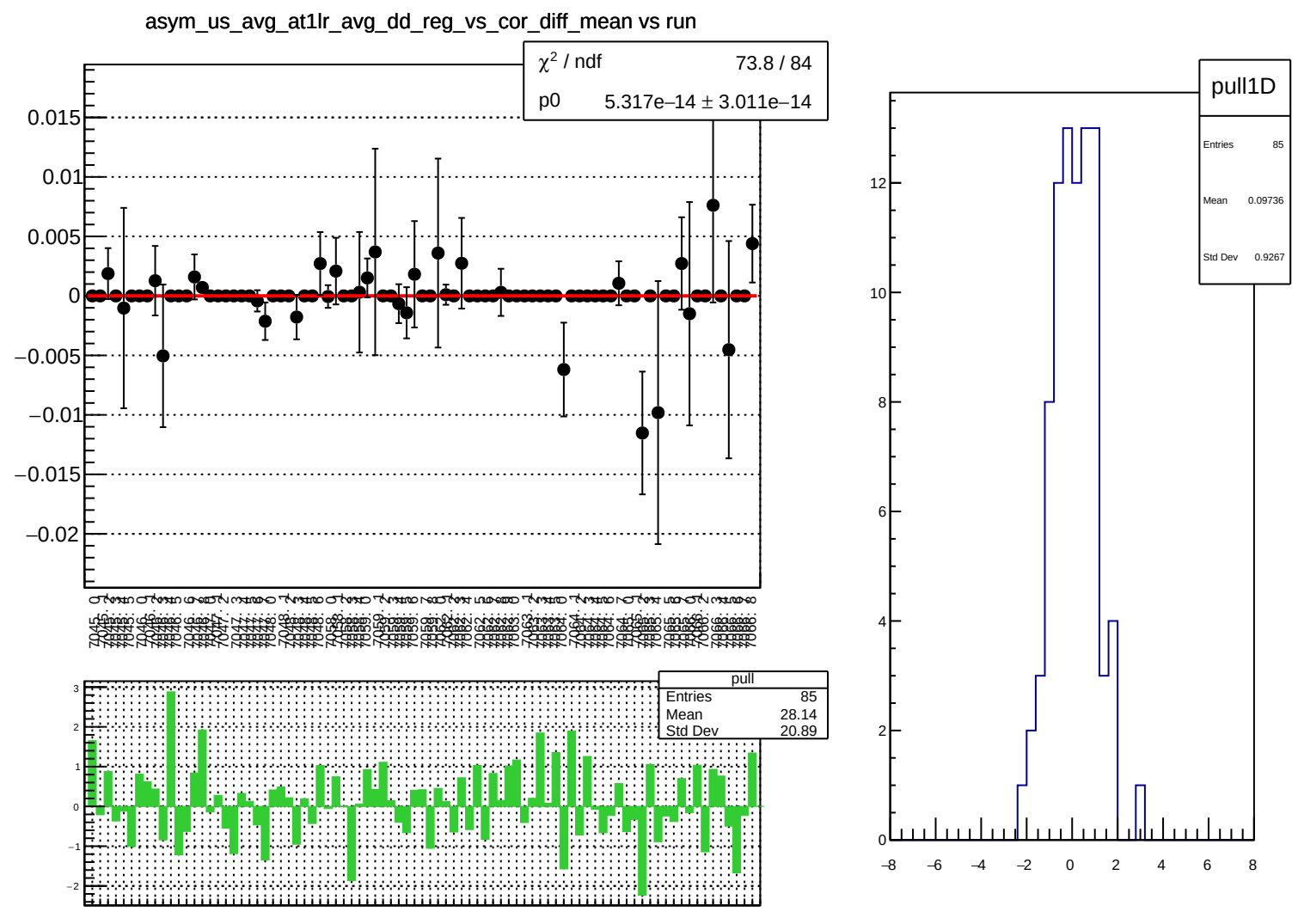

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.54 / 84
p0 −547.6 ± 1034
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 171.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.0459
Std Dev 0.9416
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

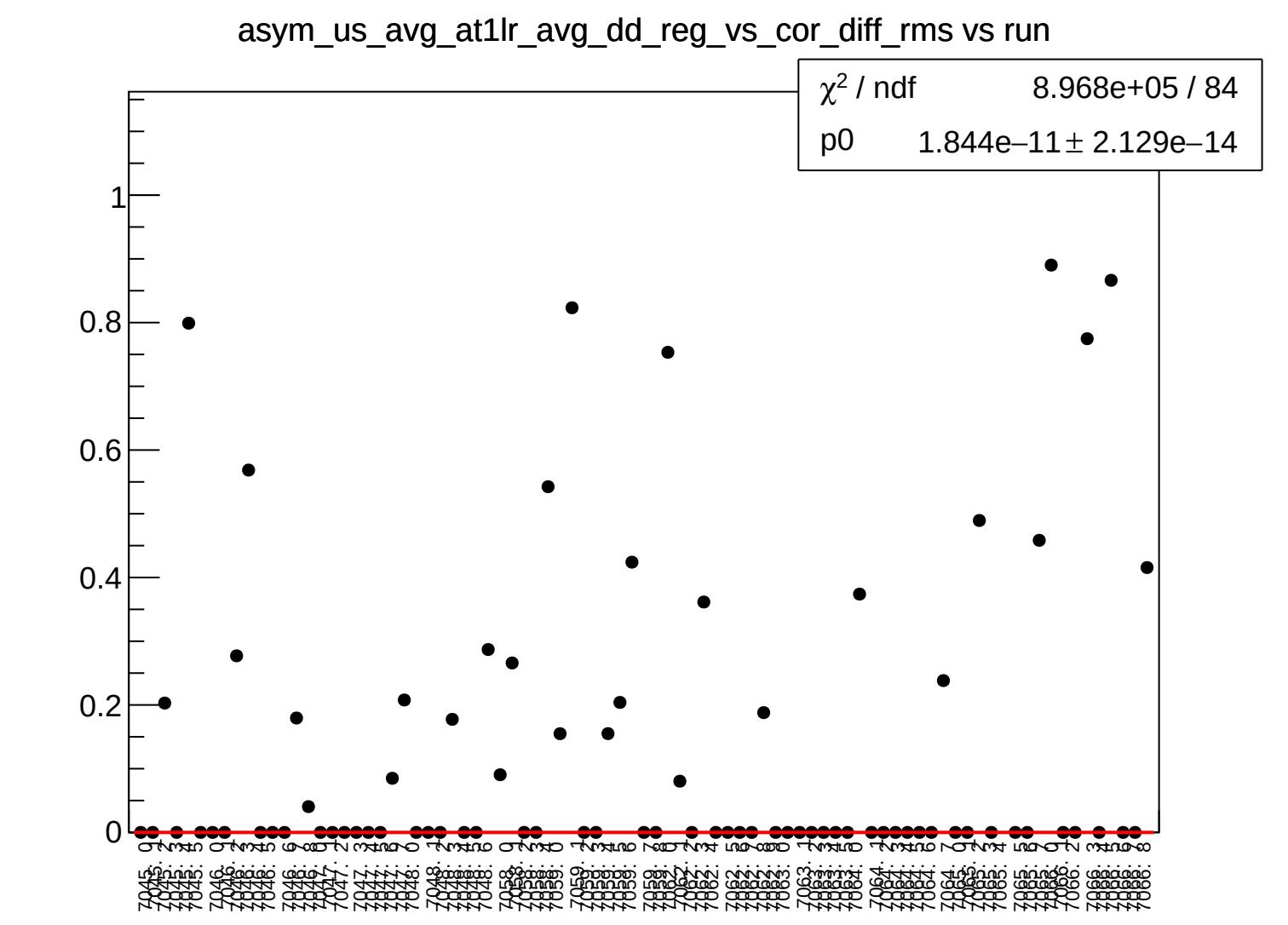

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.769e+04 / 84
p0 927.9 ± 0.7314
1300
1200
1100
1000
900
800
700

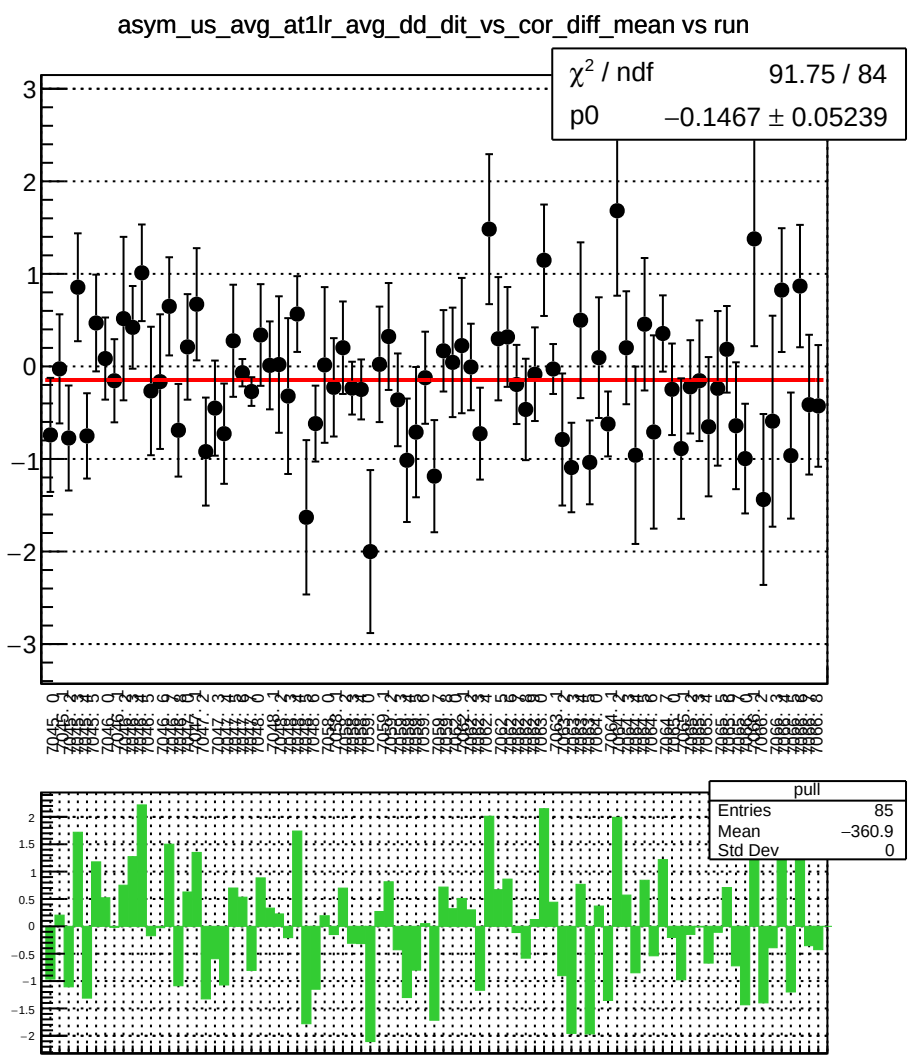

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.75 / 84
p0 5349 ± 2181
pull
Entries 85
Mean 50.84
Std Dev 56.27

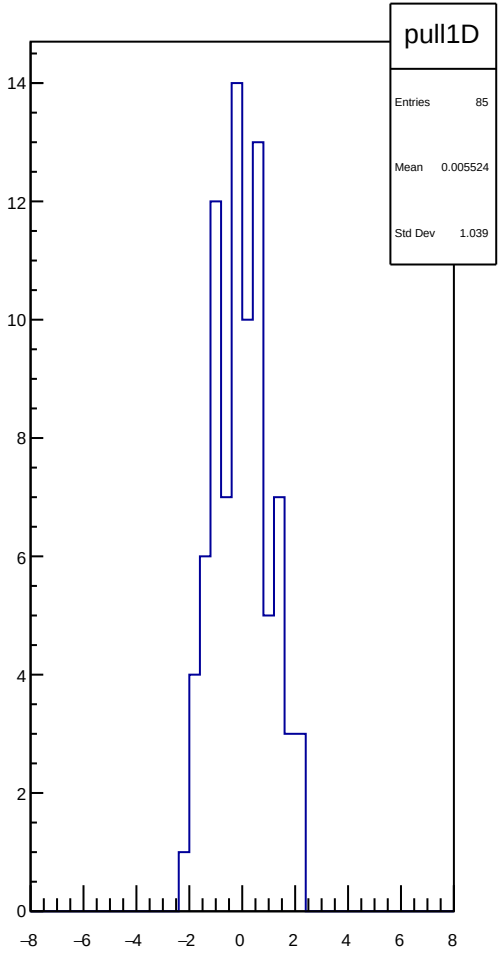

pull1D
Entries 85
Mean 0.01702
Std Dev 1.01

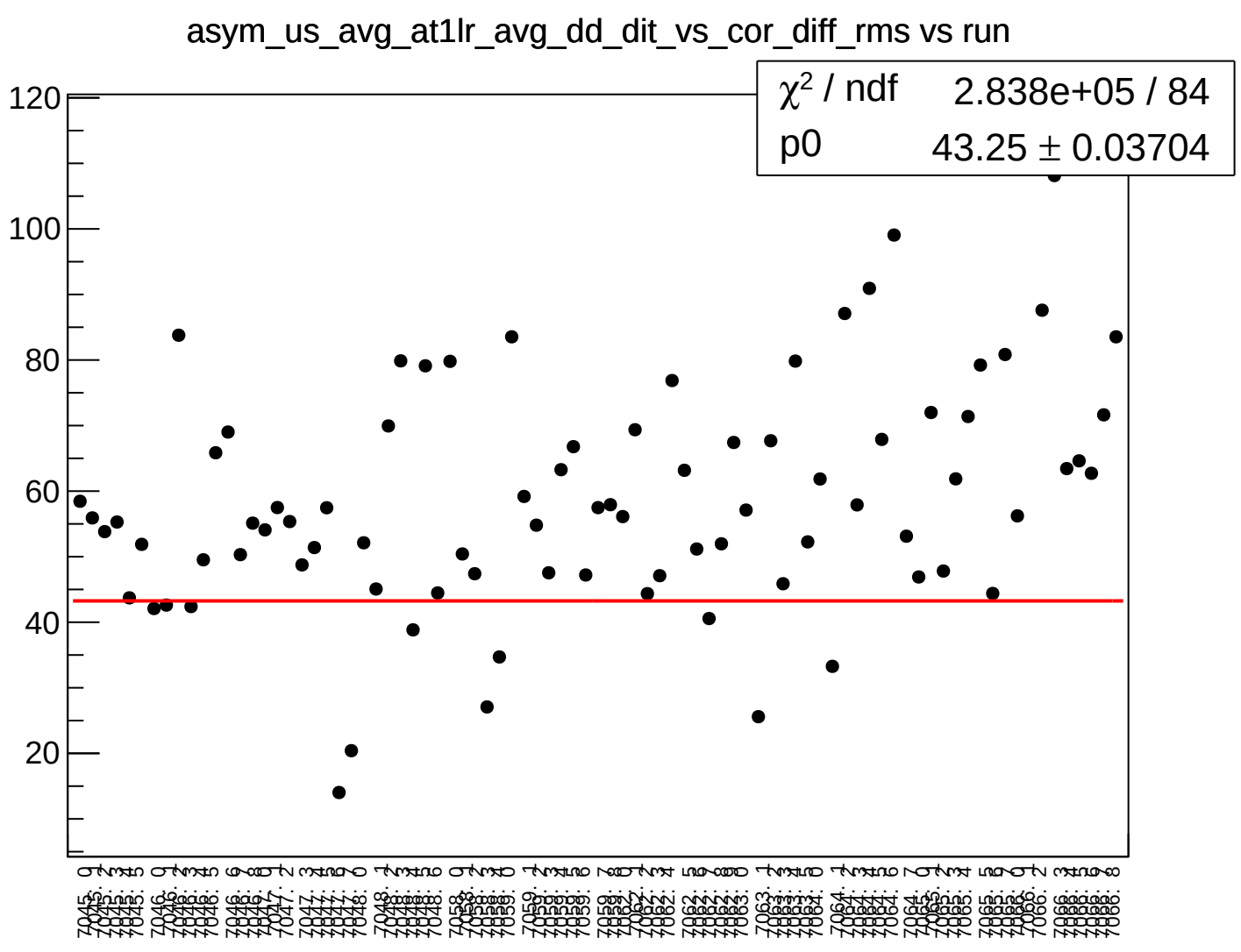

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2446 / 84
p0 1978 ± 1.542
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

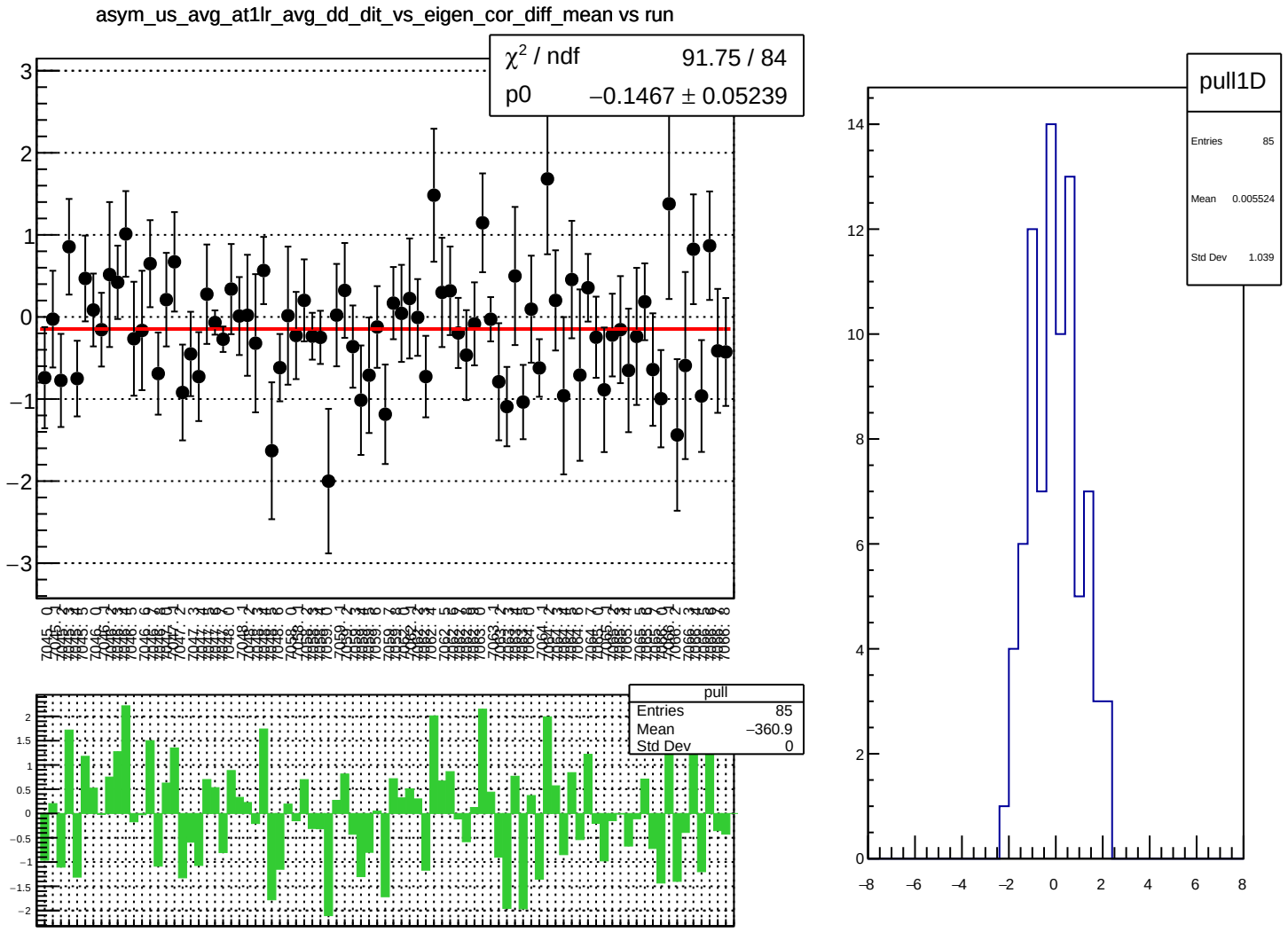

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.8 / 84
p0 5.317e−14 ± 3.011e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 85
Mean 28.14
Std Dev 20.89
pull1D
Entries 85
Mean 0.09736
Std Dev 0.9267
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

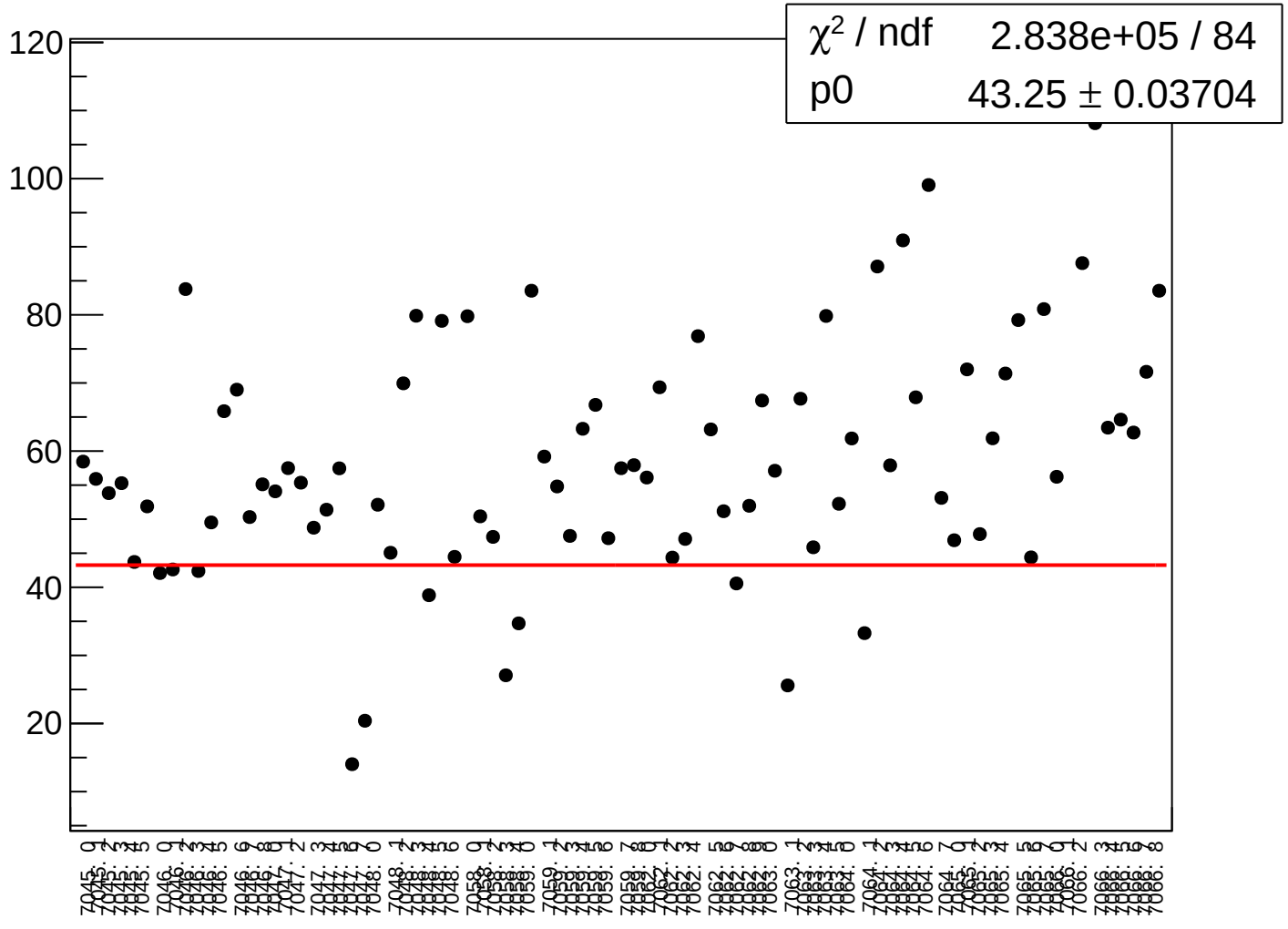

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.968e+05 / 84
p0 1.844e−11 ± 2.129e−14
1
0.8
0.6
0.4
0.2
0

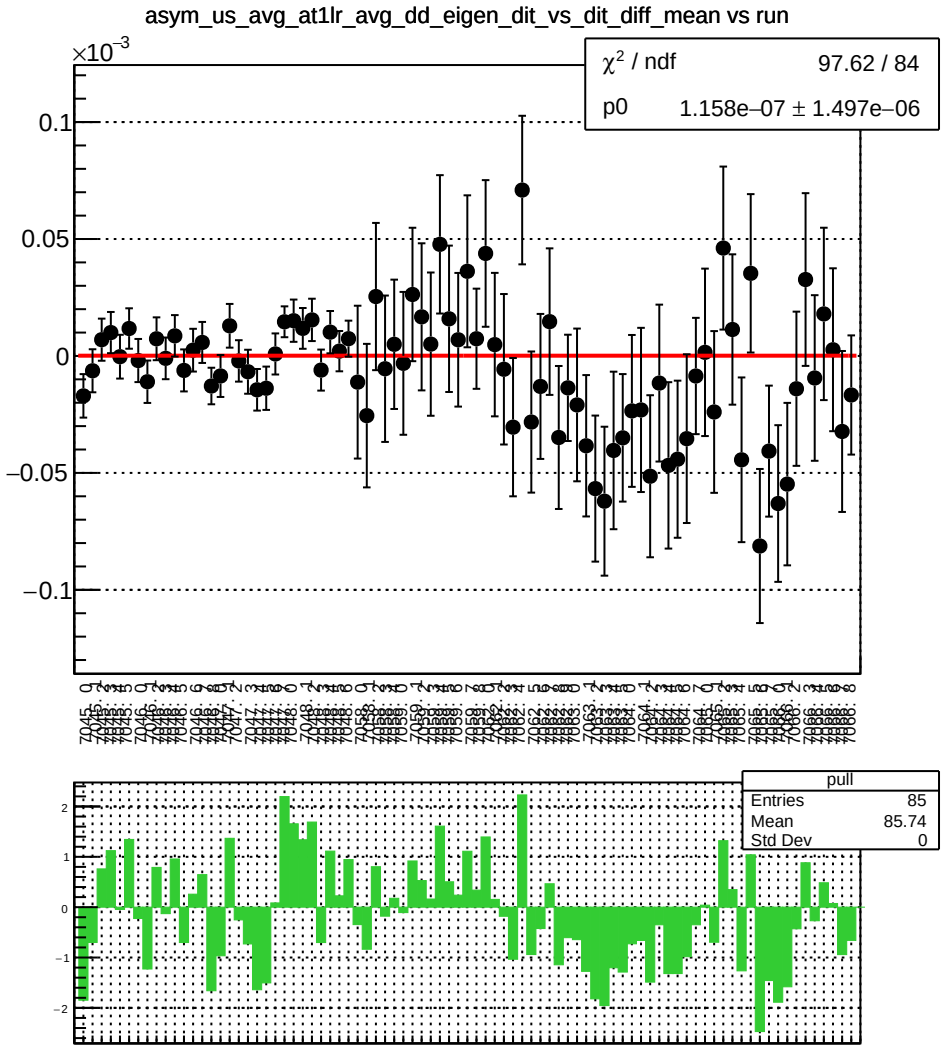

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.75 / 84
p0 −0.1467 ± 0.05239
pull
Entries 85
Mean −360.9
Std Dev 0

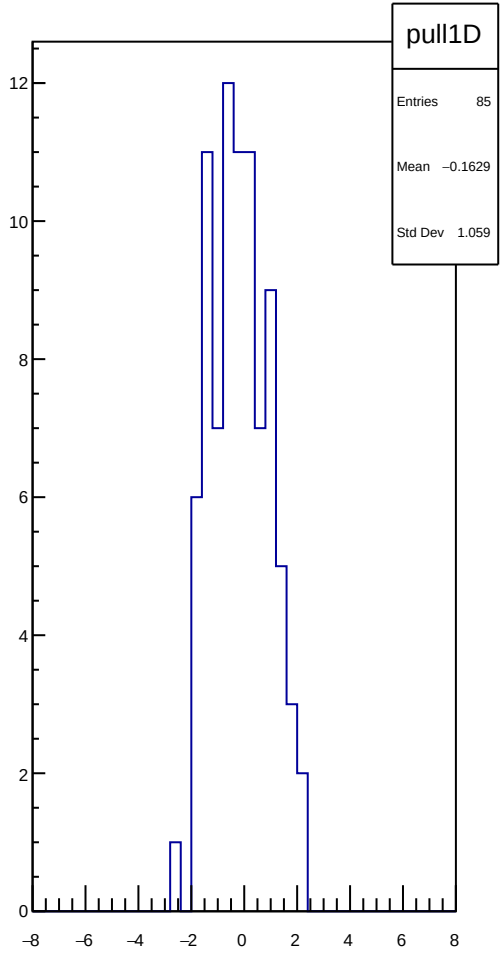

pull1D
Entries 85
Mean 0.005524
Std Dev 1.039

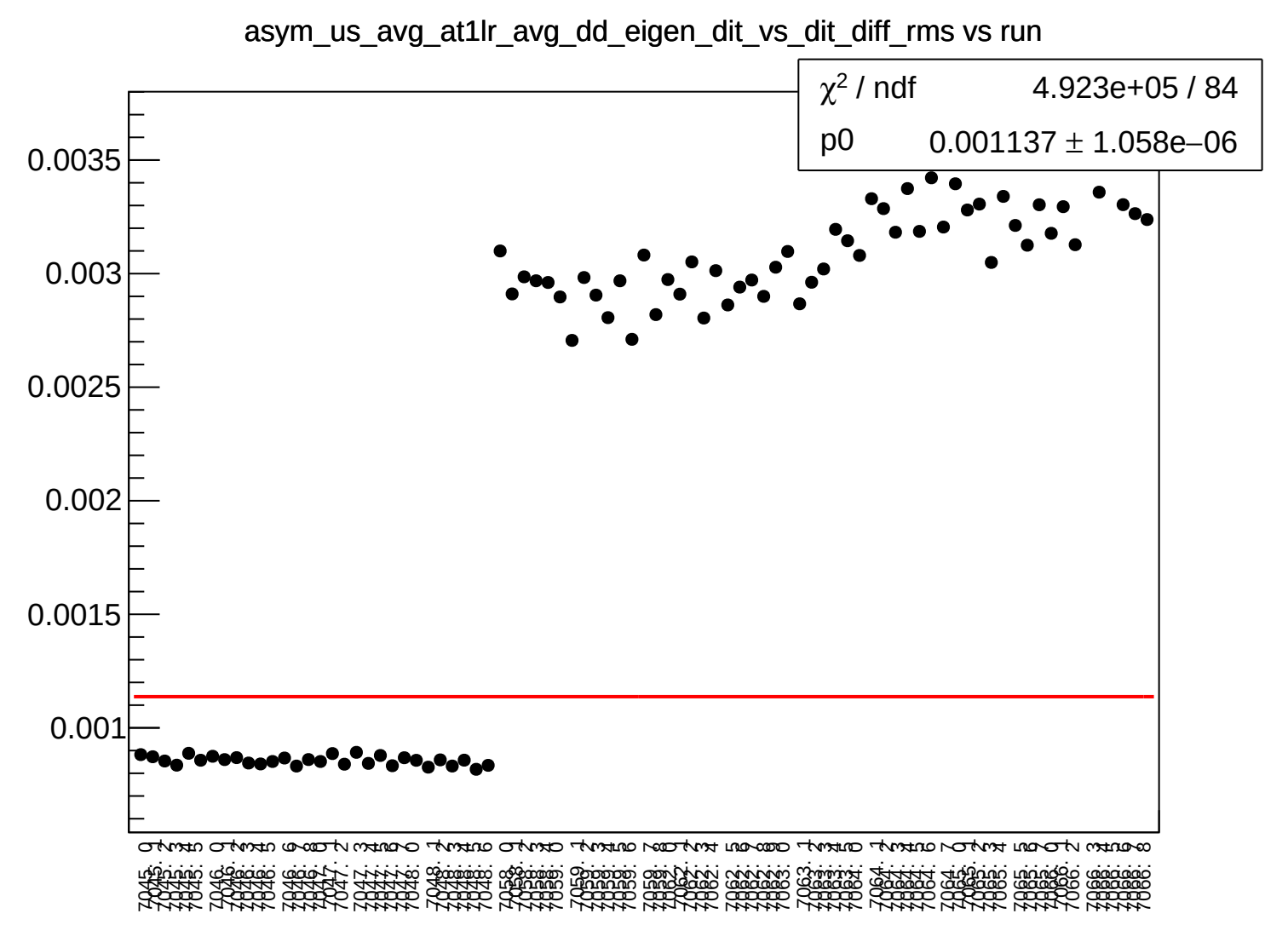

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.838e+05 / 84
p0 43.25 ± 0.03704
120
100
80
60
40
20

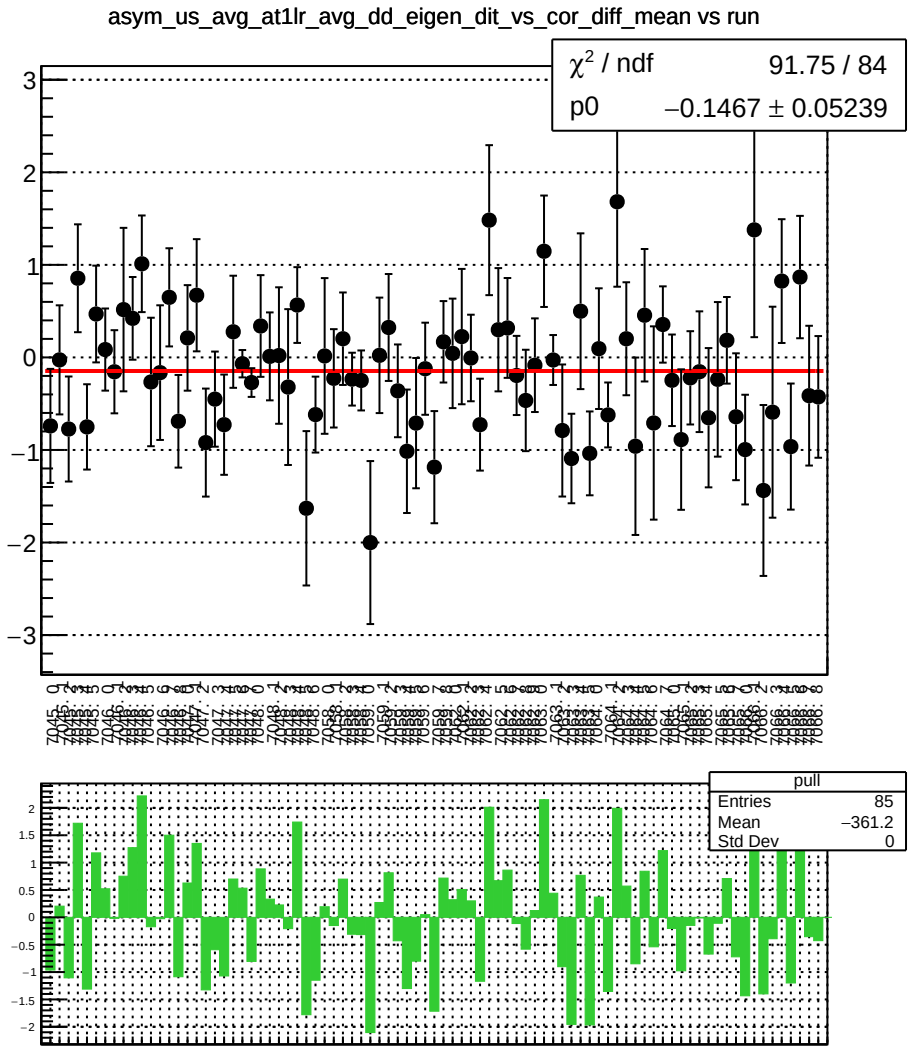

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.75 / 84
p0 −0.1467 ± 0.05239
pull
Entries 85
Mean −360.9
Std Dev 0
pull1D
Entries 85
Mean 0.005524
Std Dev 1.039

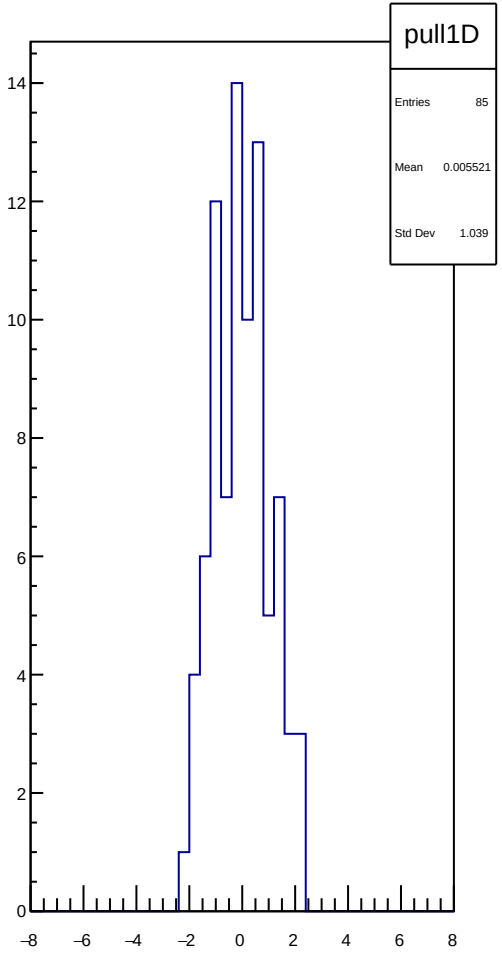

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.838e+05 / 84
p0 43.25 ± 0.03704
120
100
80
60
40
20

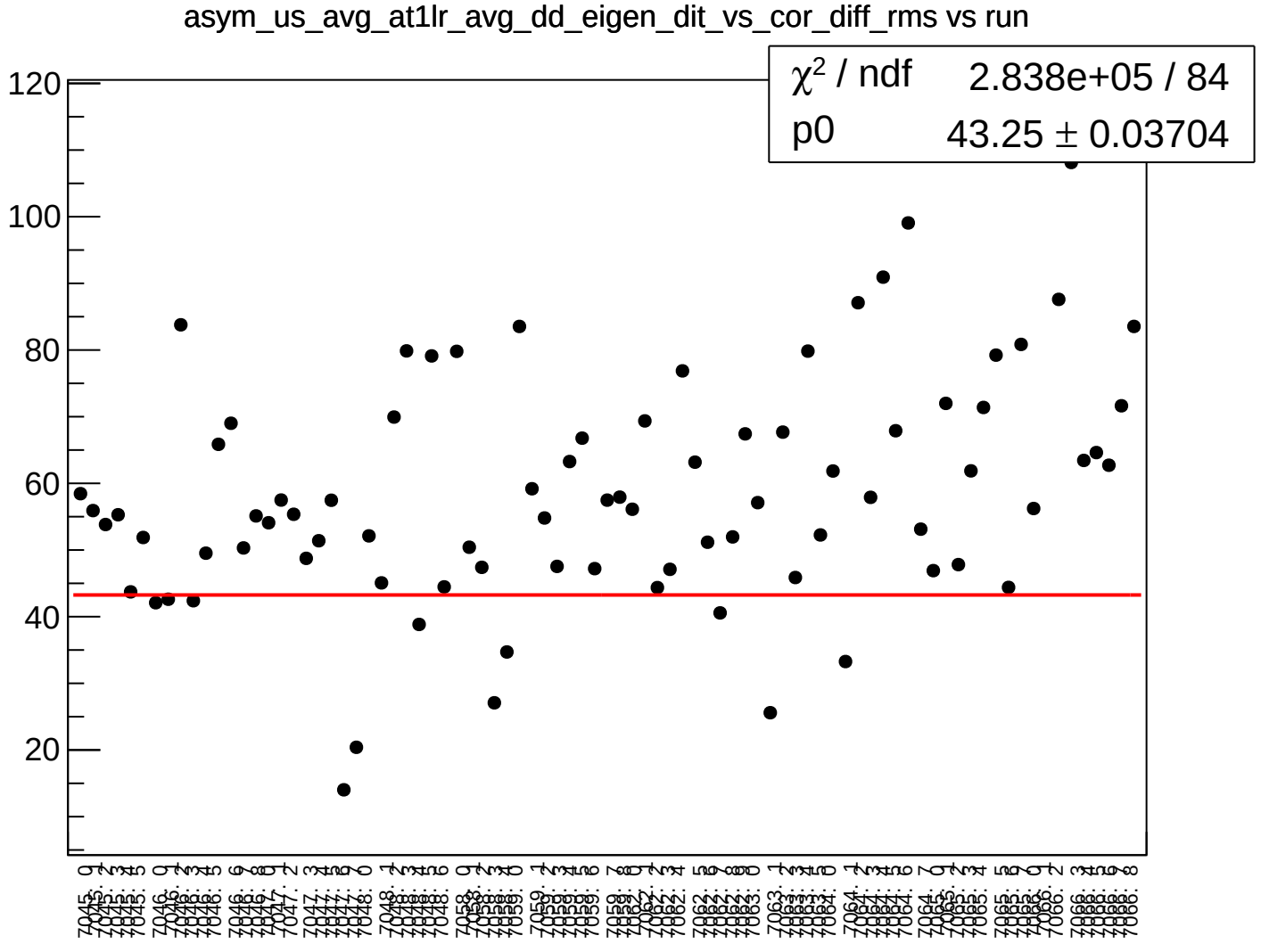

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.62 / 84
p0 1.158e−07 ± 1.497e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 85.74
Std Dev 0
2
1
0
−1
−2

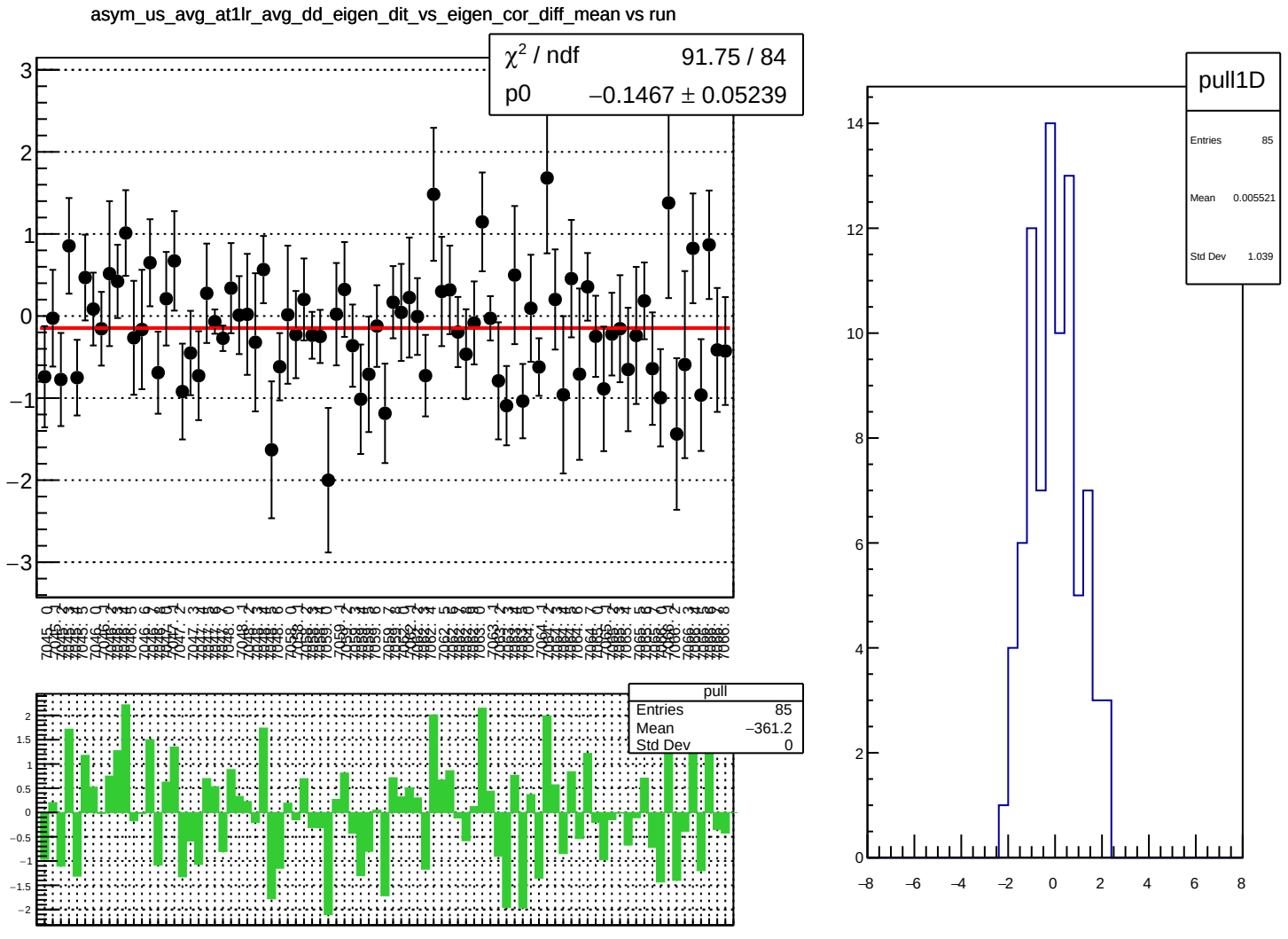

pull1D
Entries 85
Mean −0.1629
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

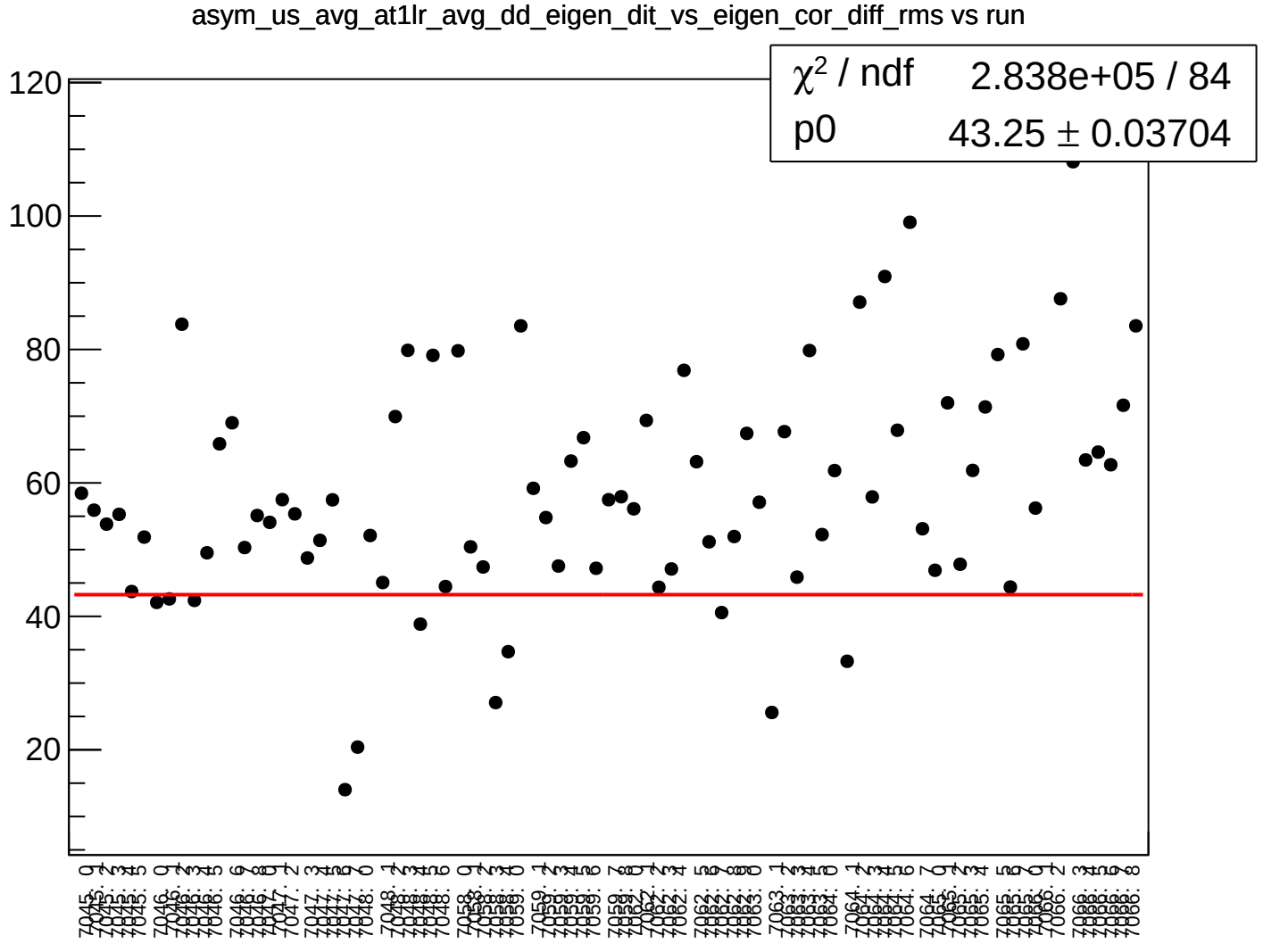

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.923e+05 / 84
p0 0.001137 ± 1.058e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

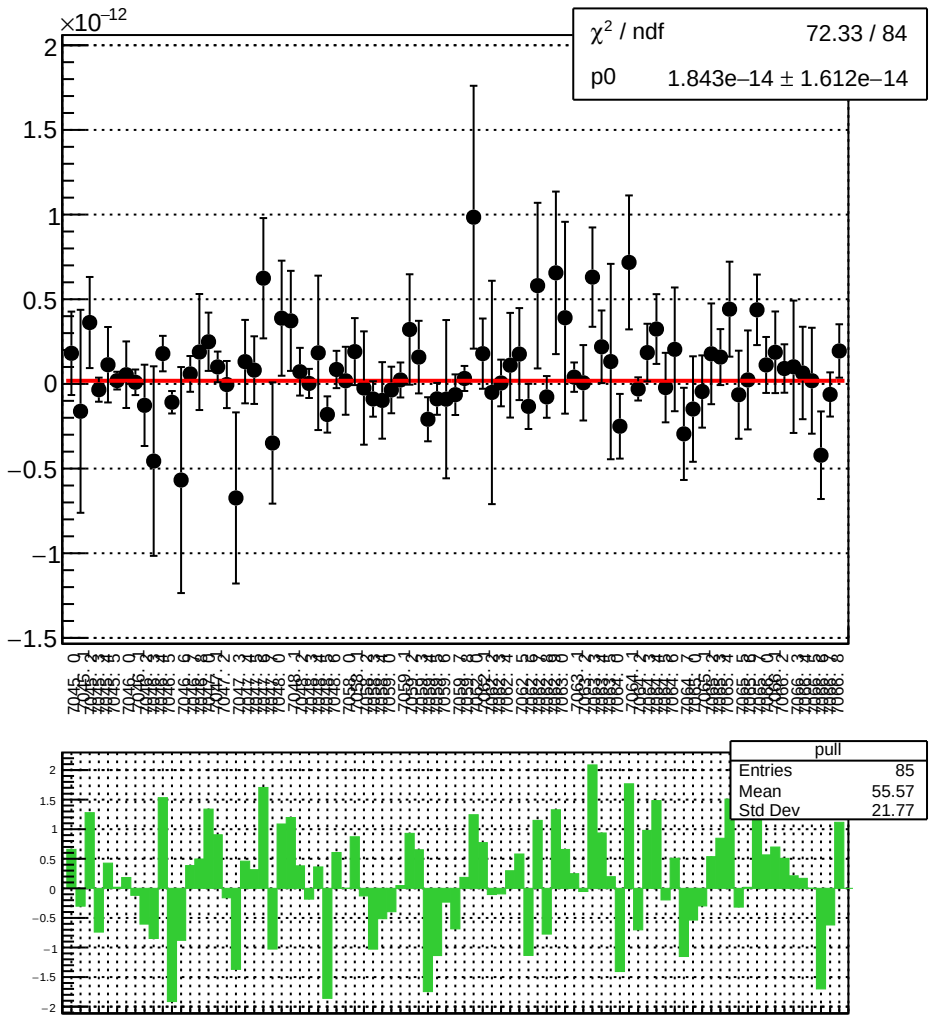

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 91.75 / 84
p0 −0.1467 ± 0.05239
pull
Entries 85
Mean −361.2
Std Dev 0

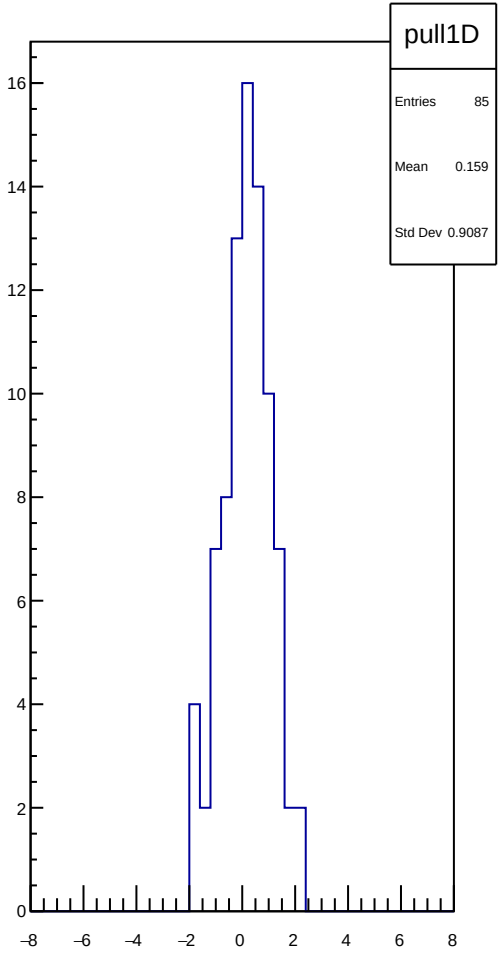

pull1D
Entries 85
Mean 0.005521
Std Dev 1.039

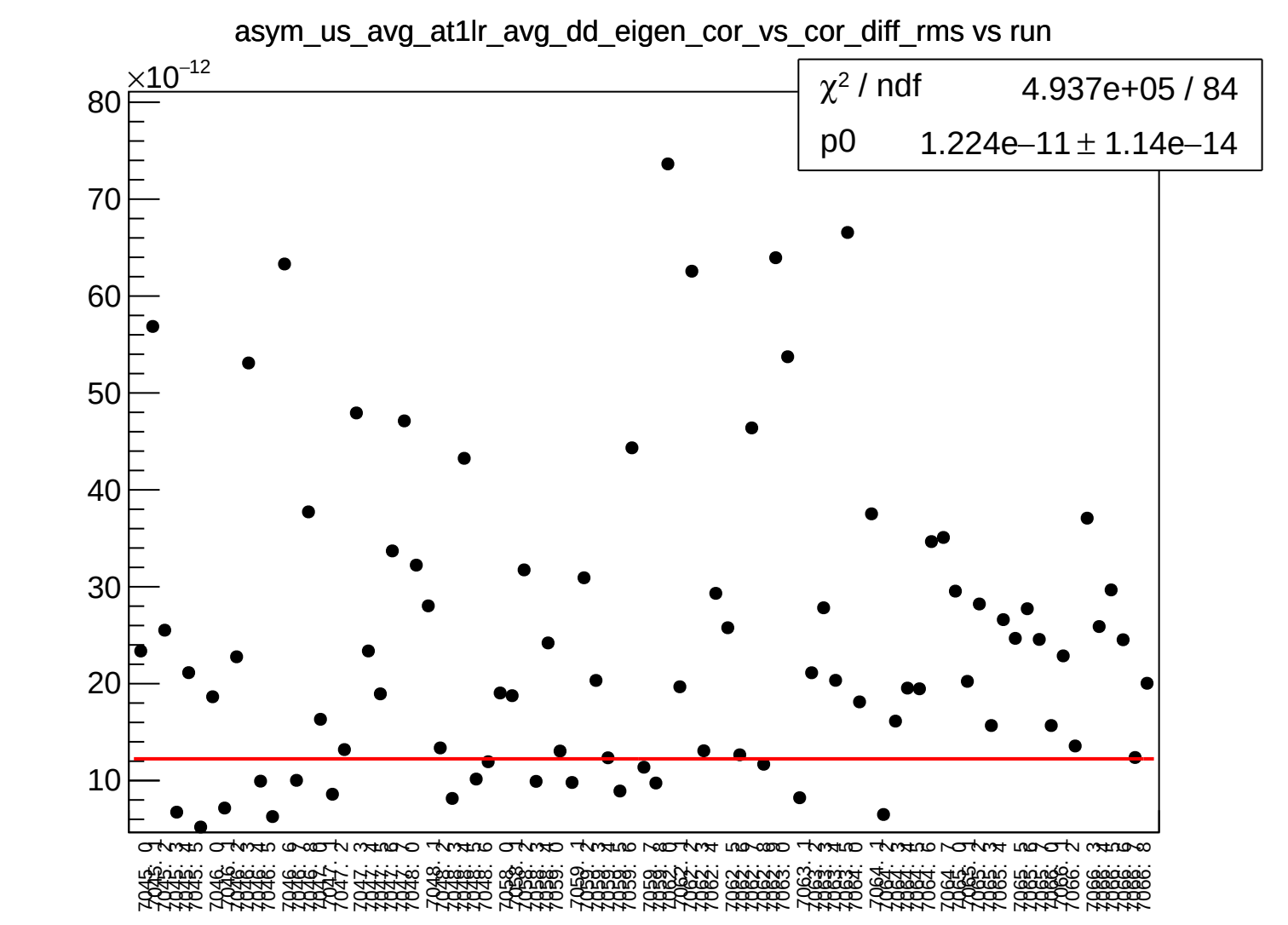

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.838e+05 / 84
p0 43.25 ± 0.03704
120
100
80
60
40
20

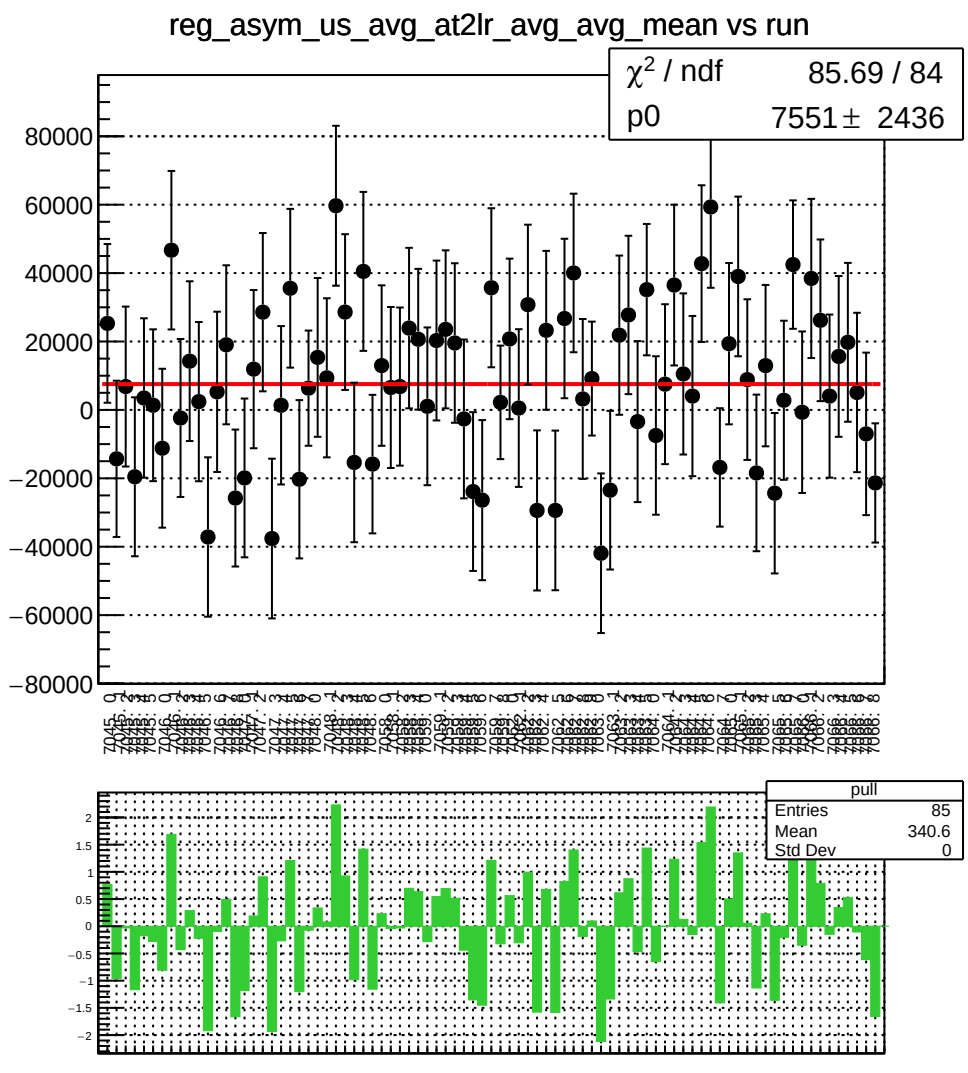

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.75 / 84
p0 −0.1467 ± 0.05239
pull
Entries 85
Mean −361.2
Std Dev 0
pull1D
Entries 85
Mean 0.005521
Std Dev 1.039

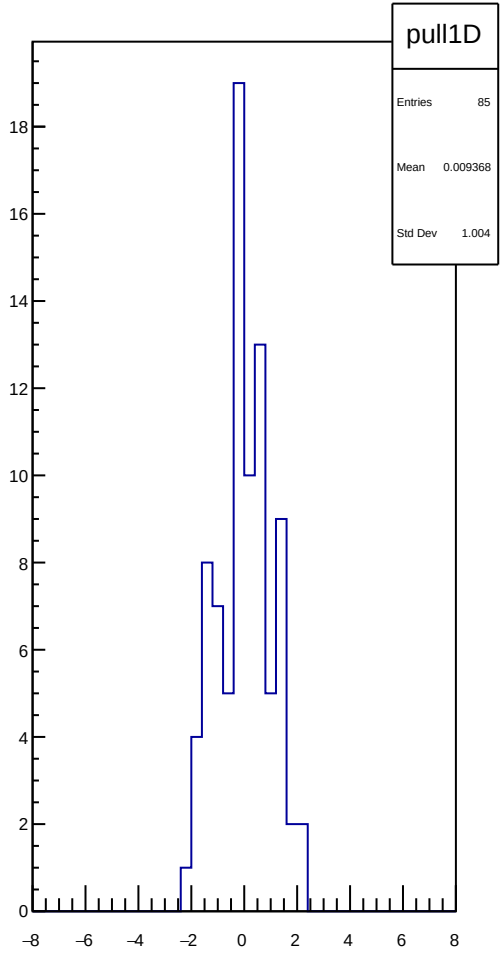

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.838e+05 / 84
p0 43.25 ± 0.03704
120
100
80
60
40
20

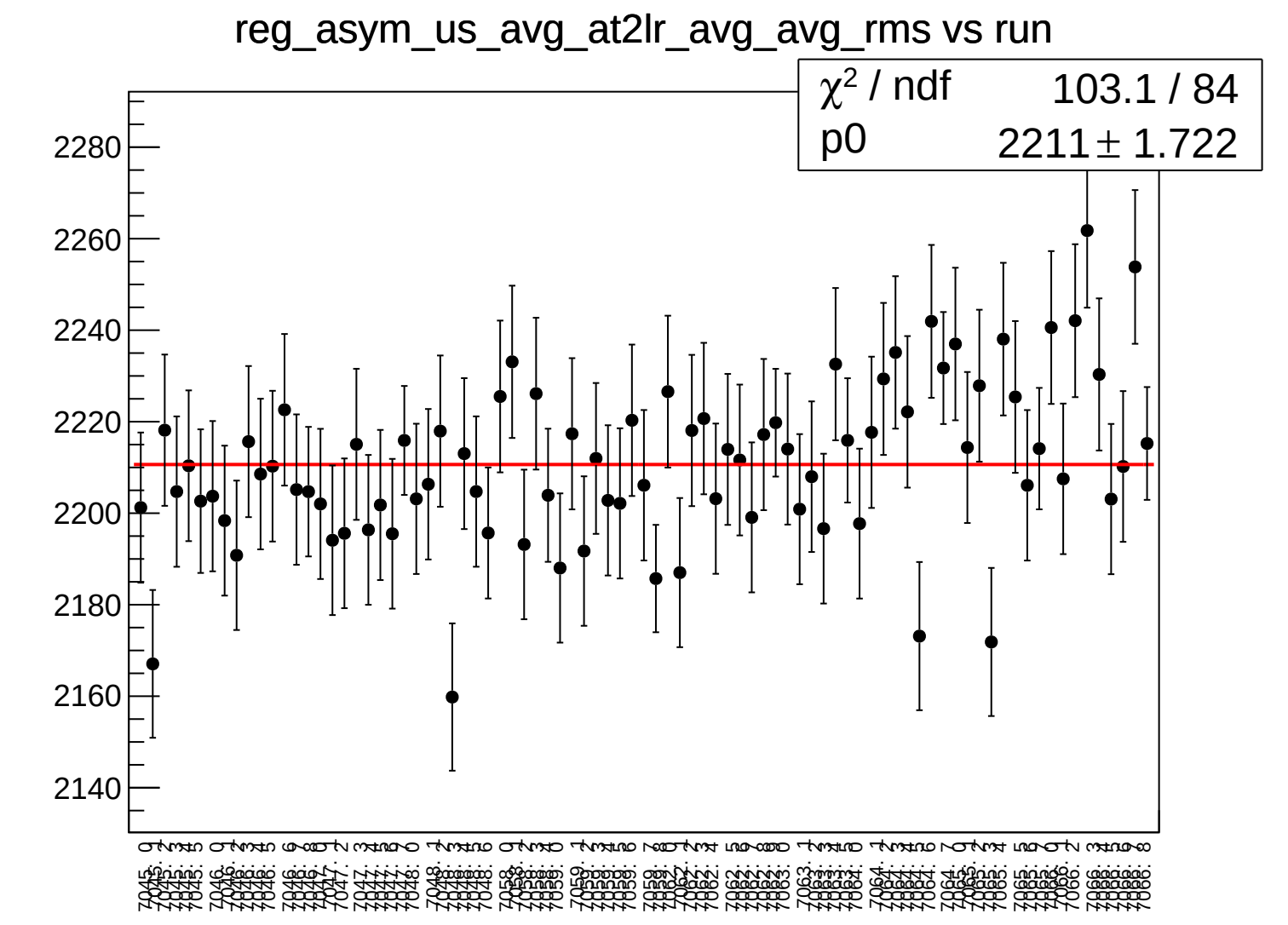

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.33 / 84
p0 1.843e−14 ± 1.612e−14
pull
Entries 85
Mean 55.57
Std Dev 21.77

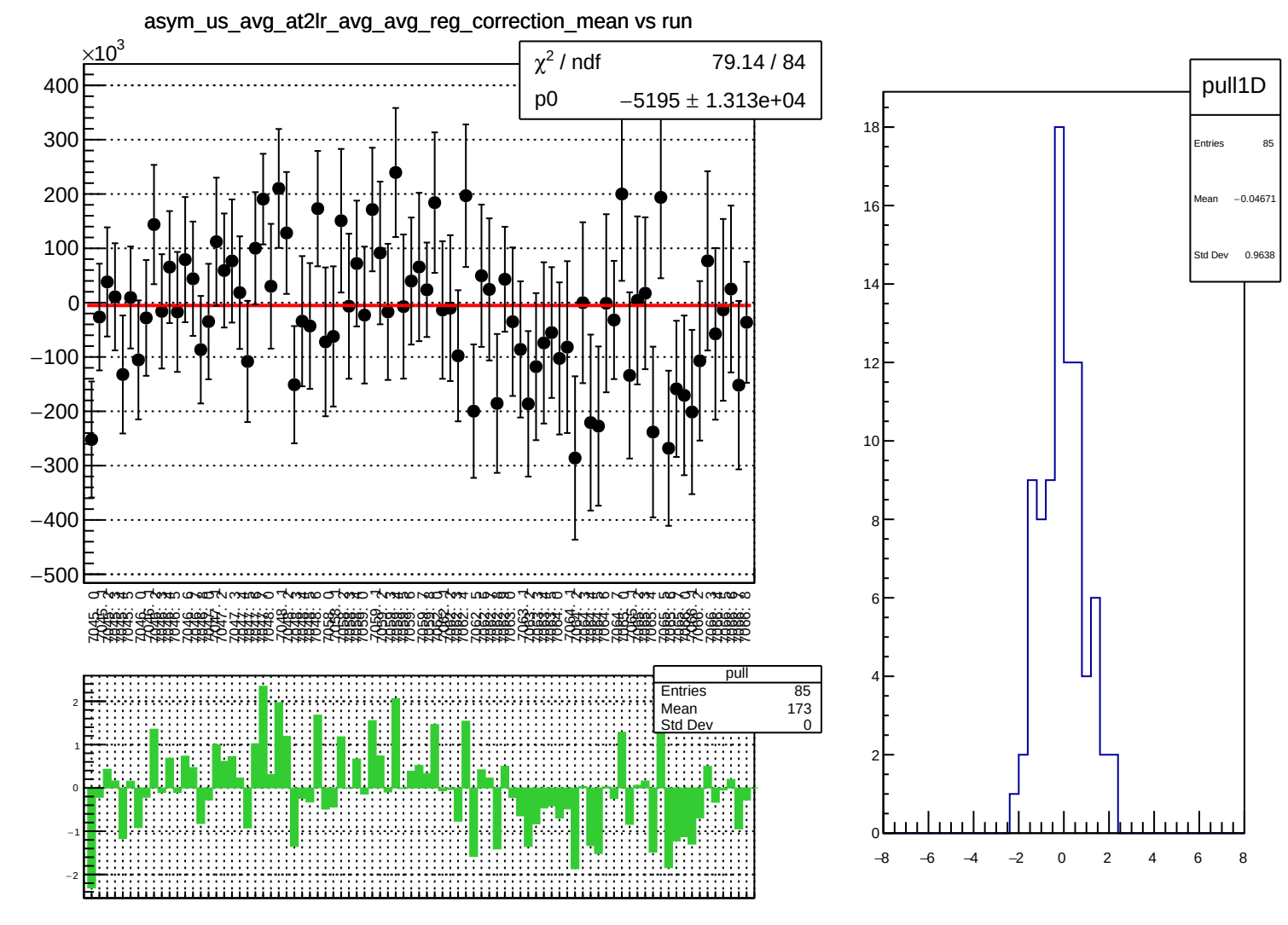

pull1D
Entries 85
Mean 0.159
Std Dev 0.9087

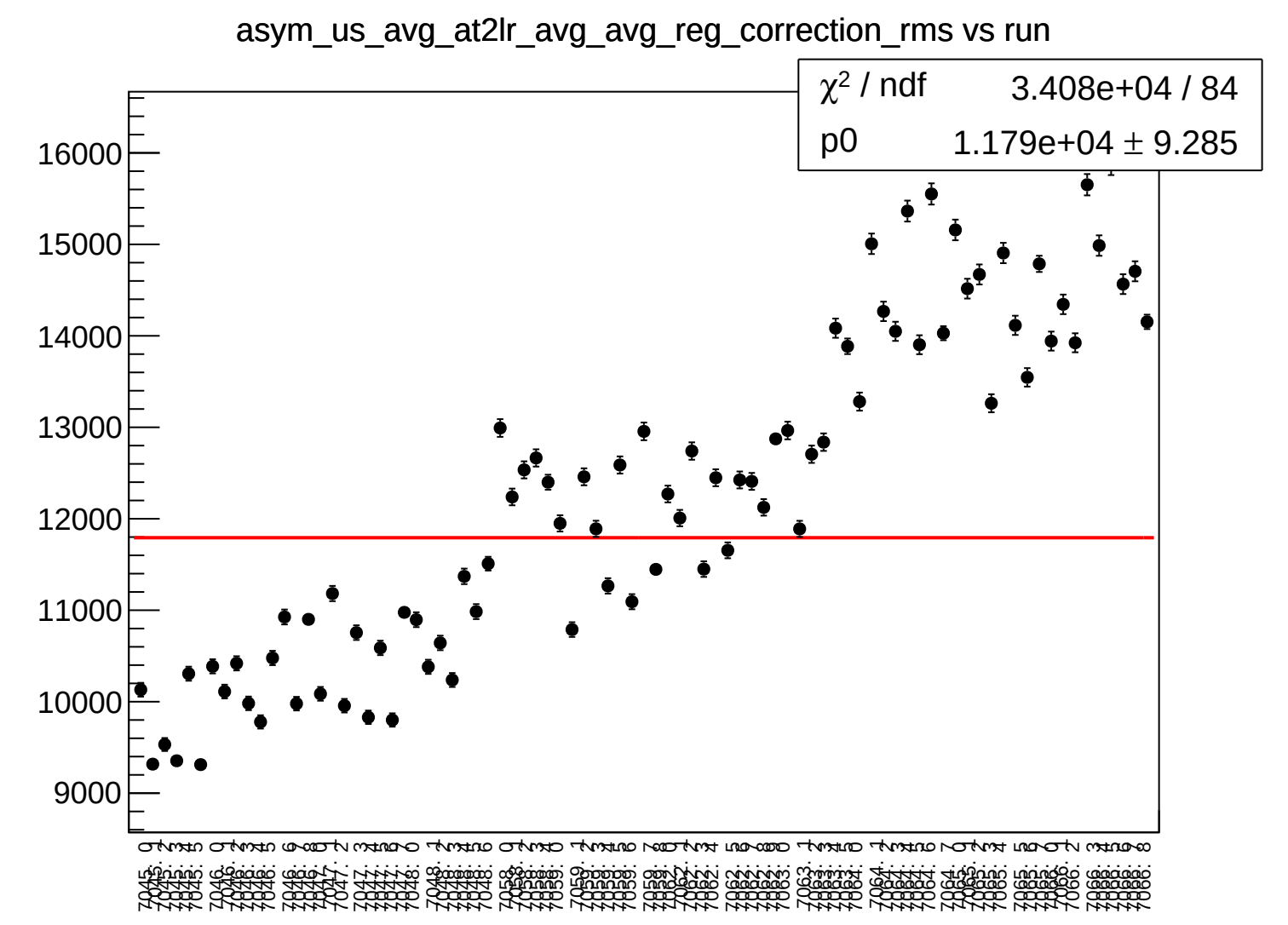

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.937e+05 / 84
p0 1.224e−11 ± 1.14e−14
80
70
60
50
40
30
20
10

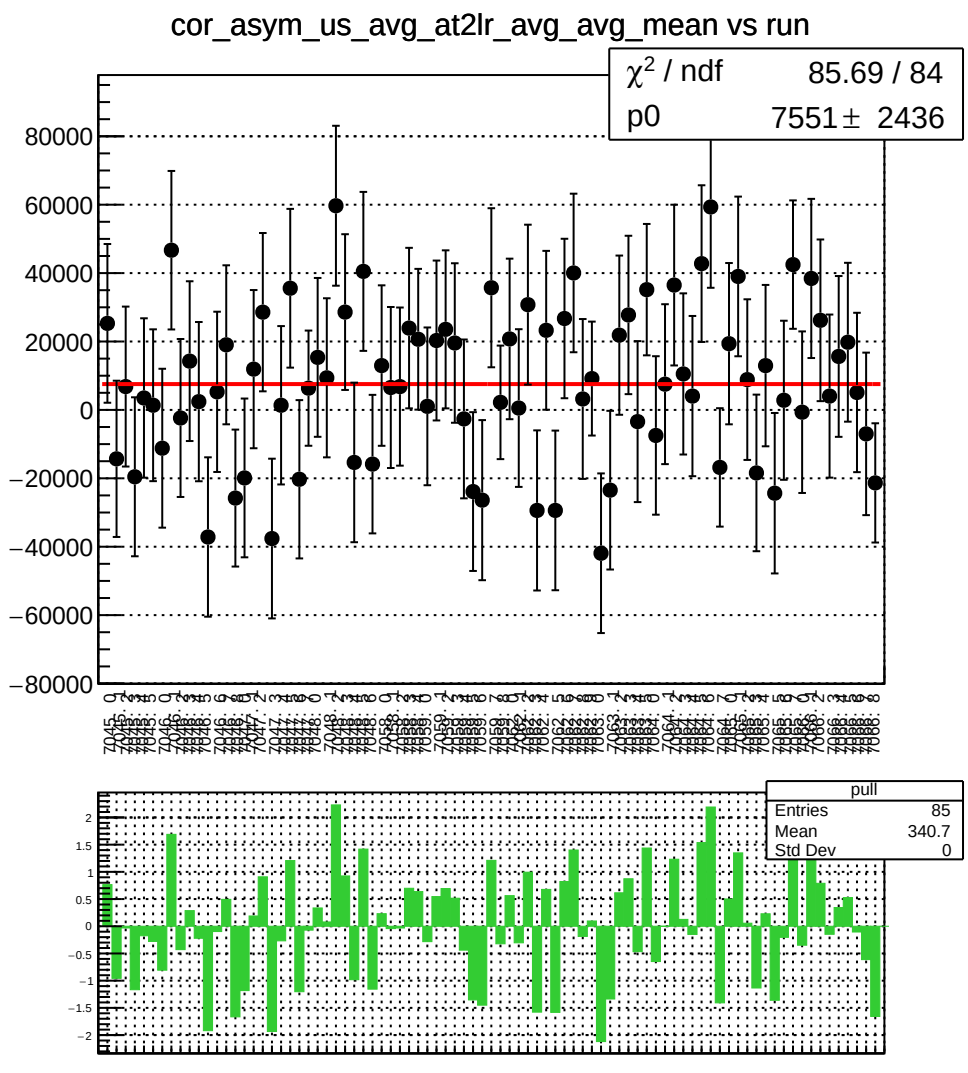

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 85.69 / 84
p0 7551 ± 2436
pull
Entries 85
Mean 340.6
Std Dev 0

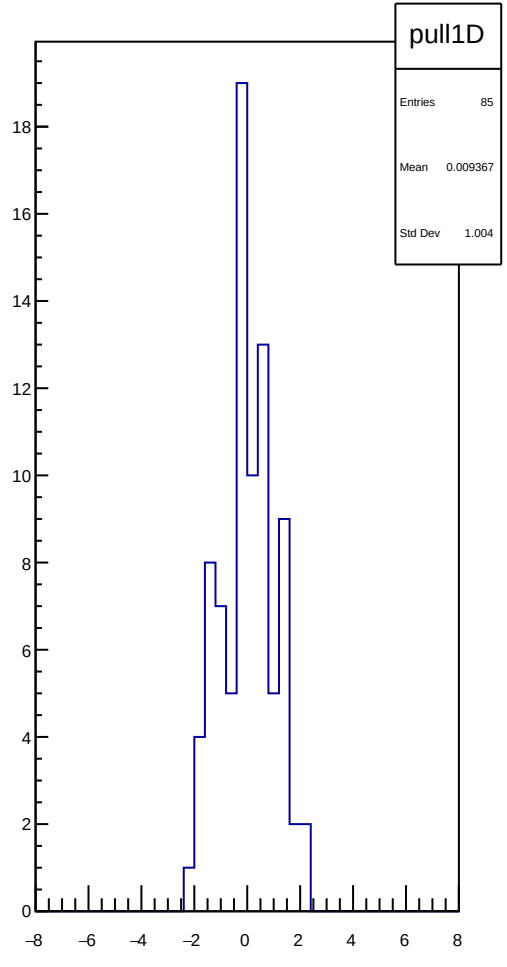

pull1D
Entries 85
Mean 0.009368
Std Dev 1.004

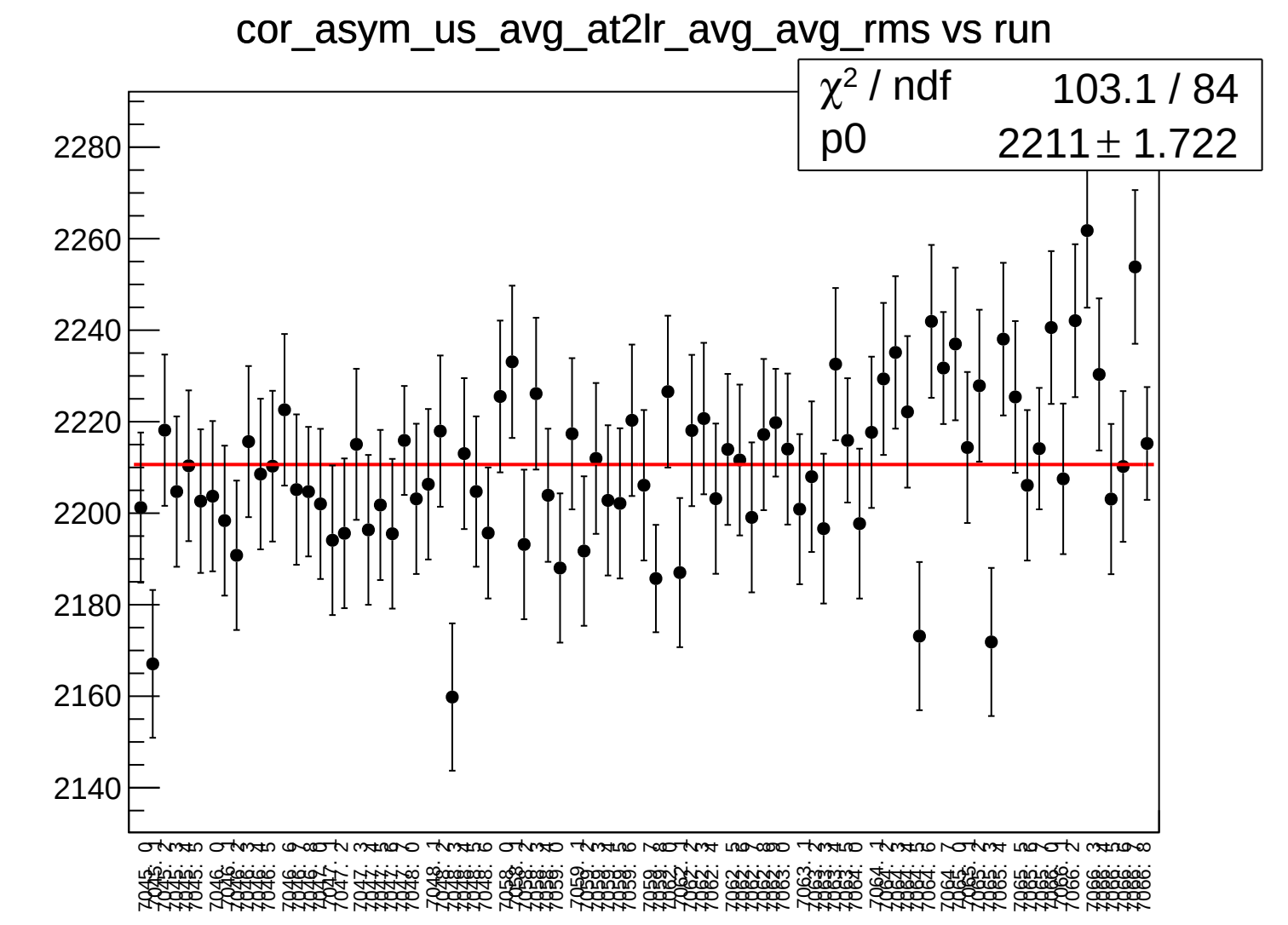

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 103.1 / 84
p0 2211 ± 1.722
2280
2260
2240
2220
2200
2180
2160
2140

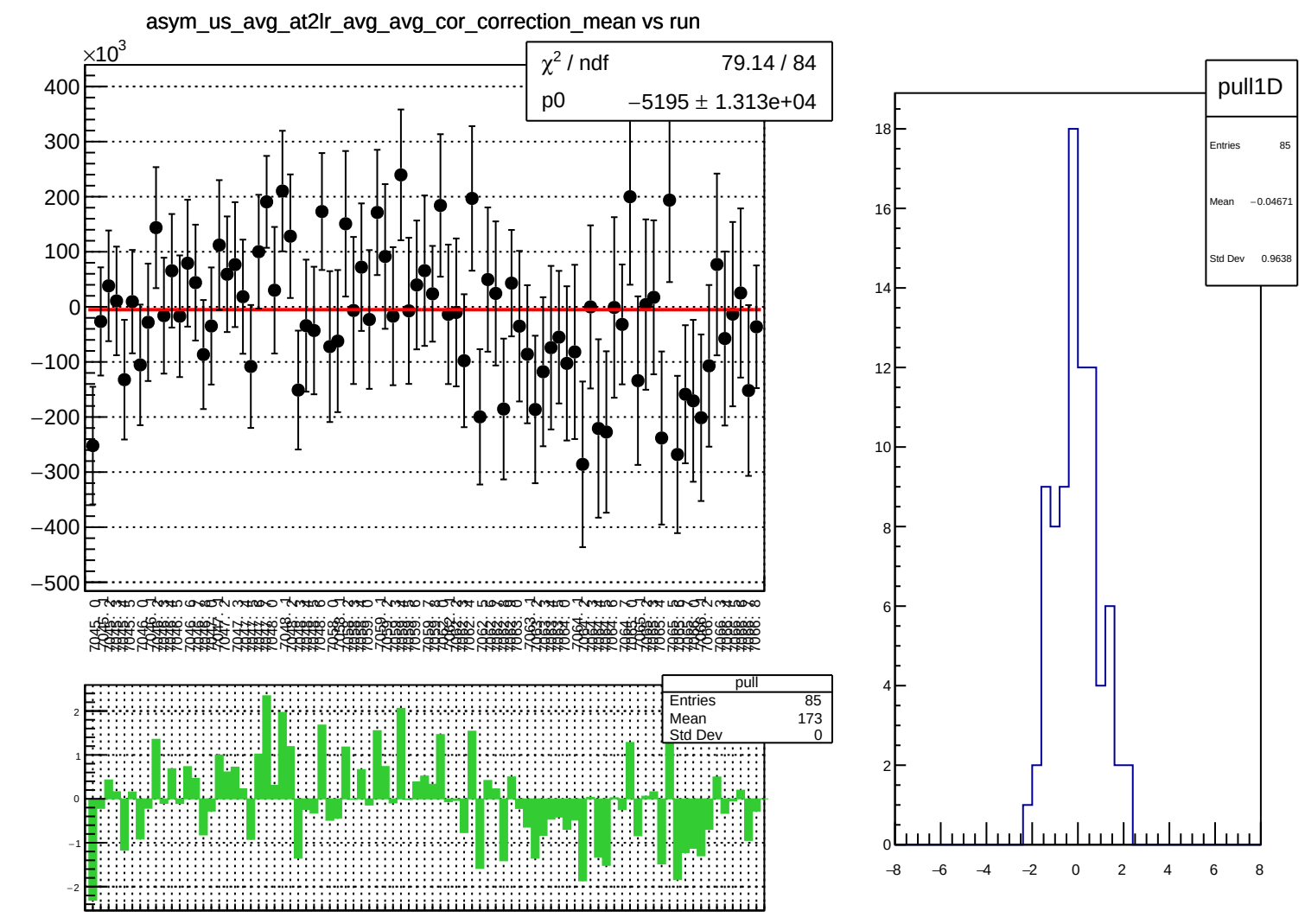

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.14 / 84
p0 −5195 ± 1.313e+04
pull
Entries 85
Mean 173
Std Dev 0
pull1D
Entries 85
Mean −0.04671
Std Dev 0.9638

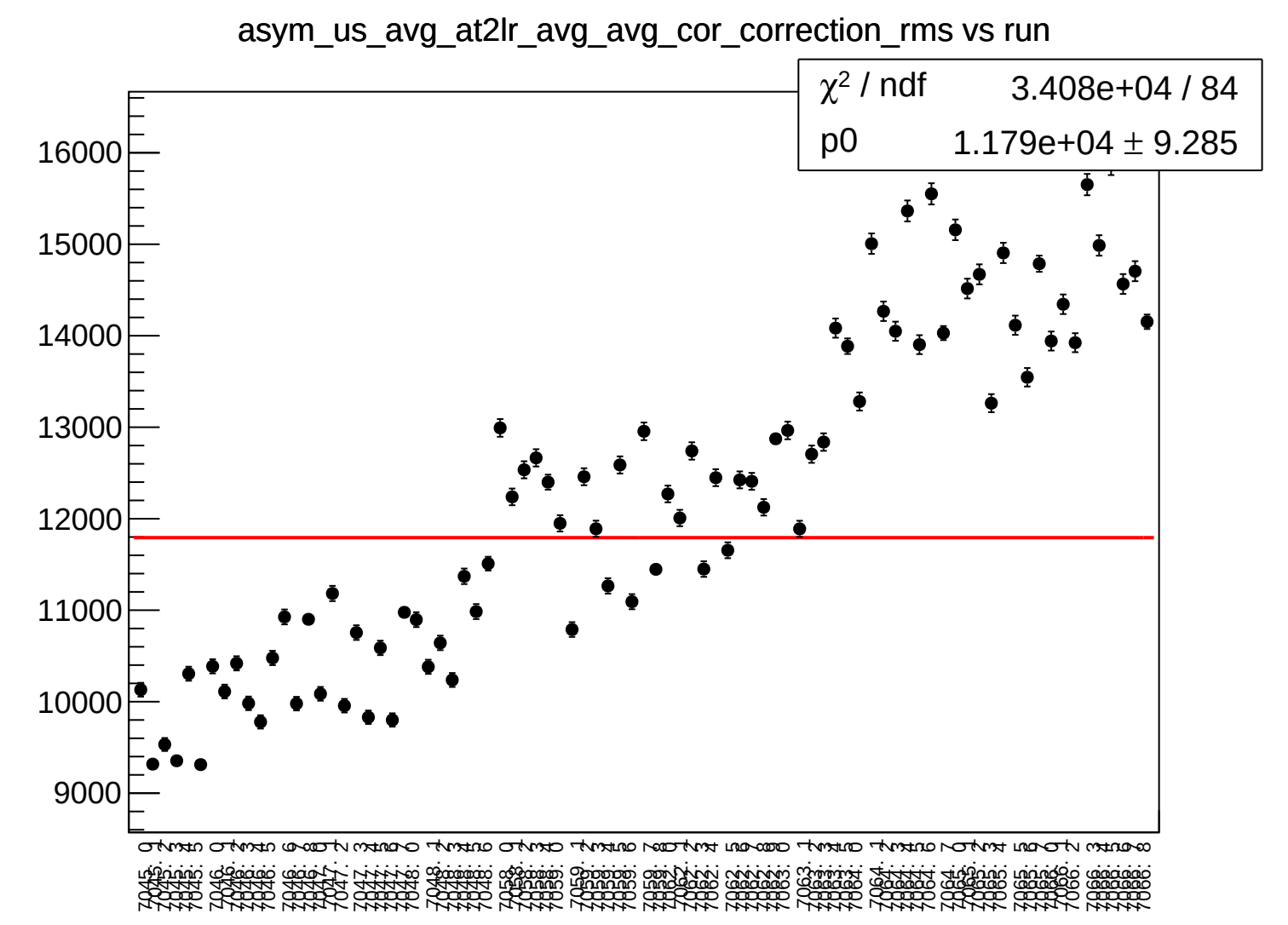

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.408e+04 / 84
p0 1.179e+04 ± 9.285
16000
15000
14000
13000
12000
11000
10000
9000

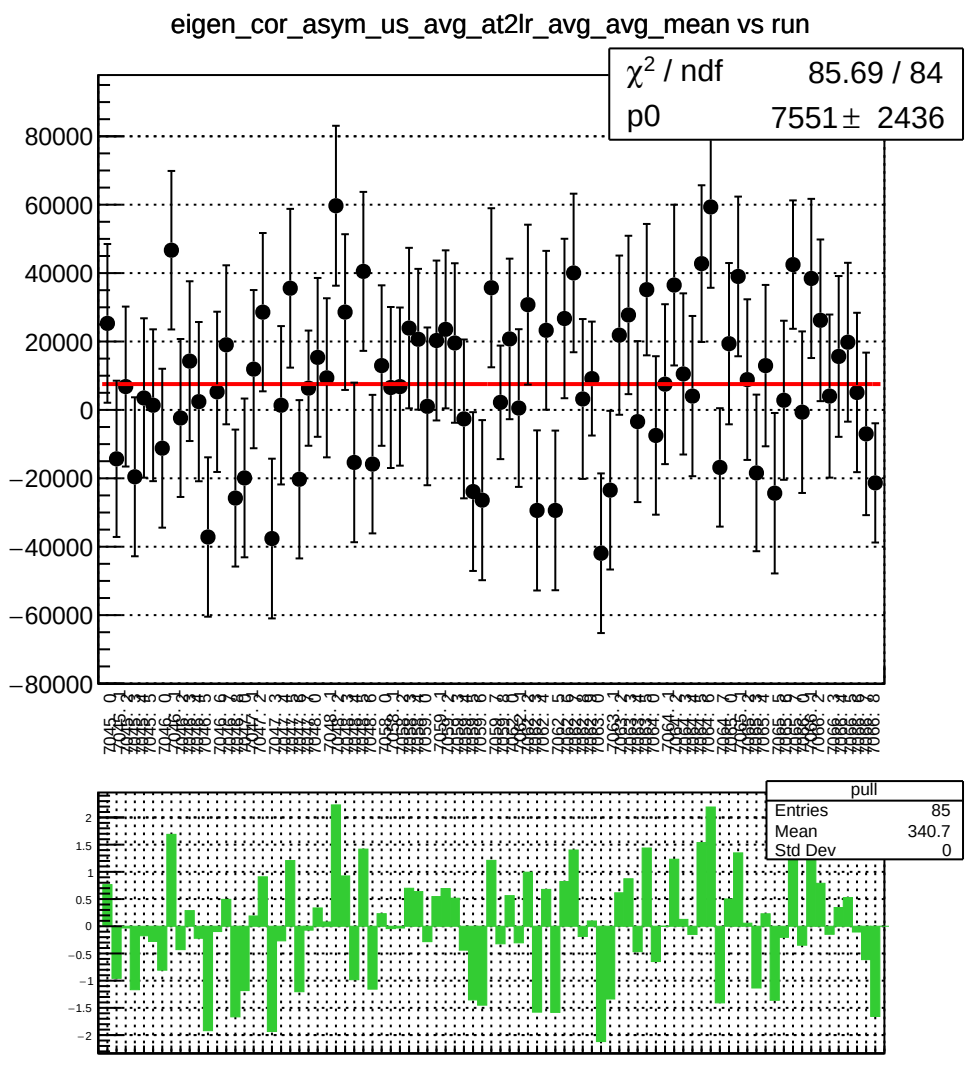

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 85.69 / 84
p0 7551 ± 2436
pull
Entries 85
Mean 340.7
Std Dev 0

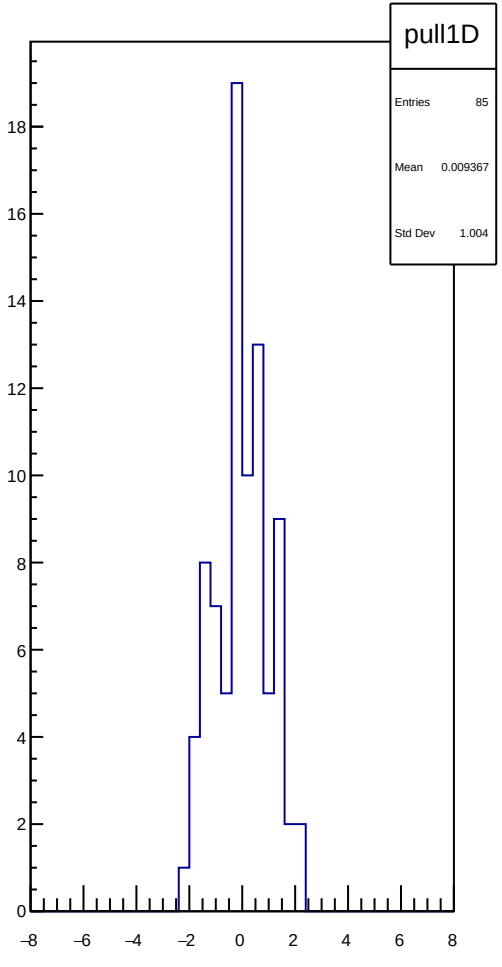

pull1D
Entries 85
Mean 0.009367
Std Dev 1.004

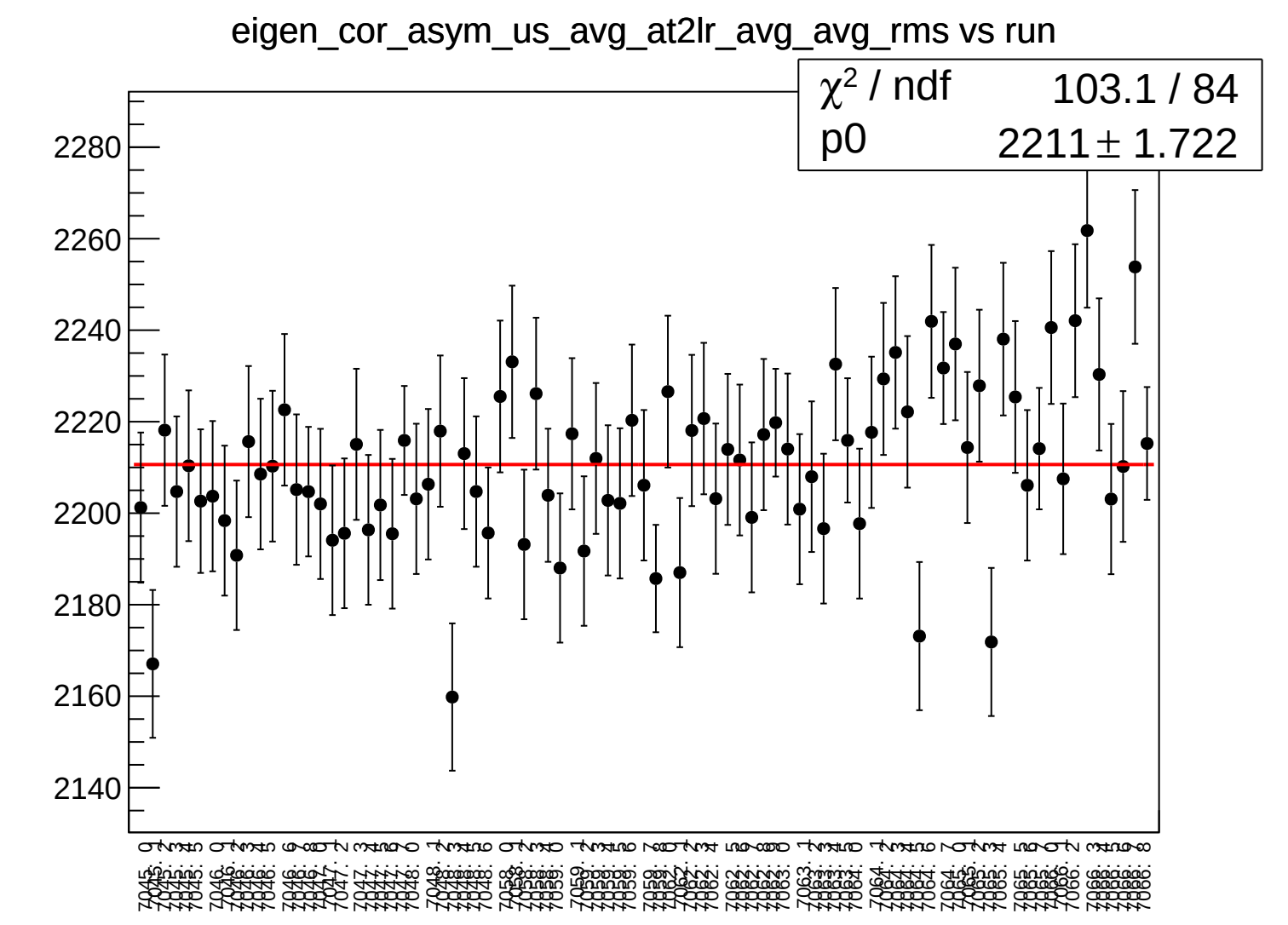

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 103.1 / 84
p0 2211 ± 1.722
2280
2260
2240
2220
2200
2180
2160
2140

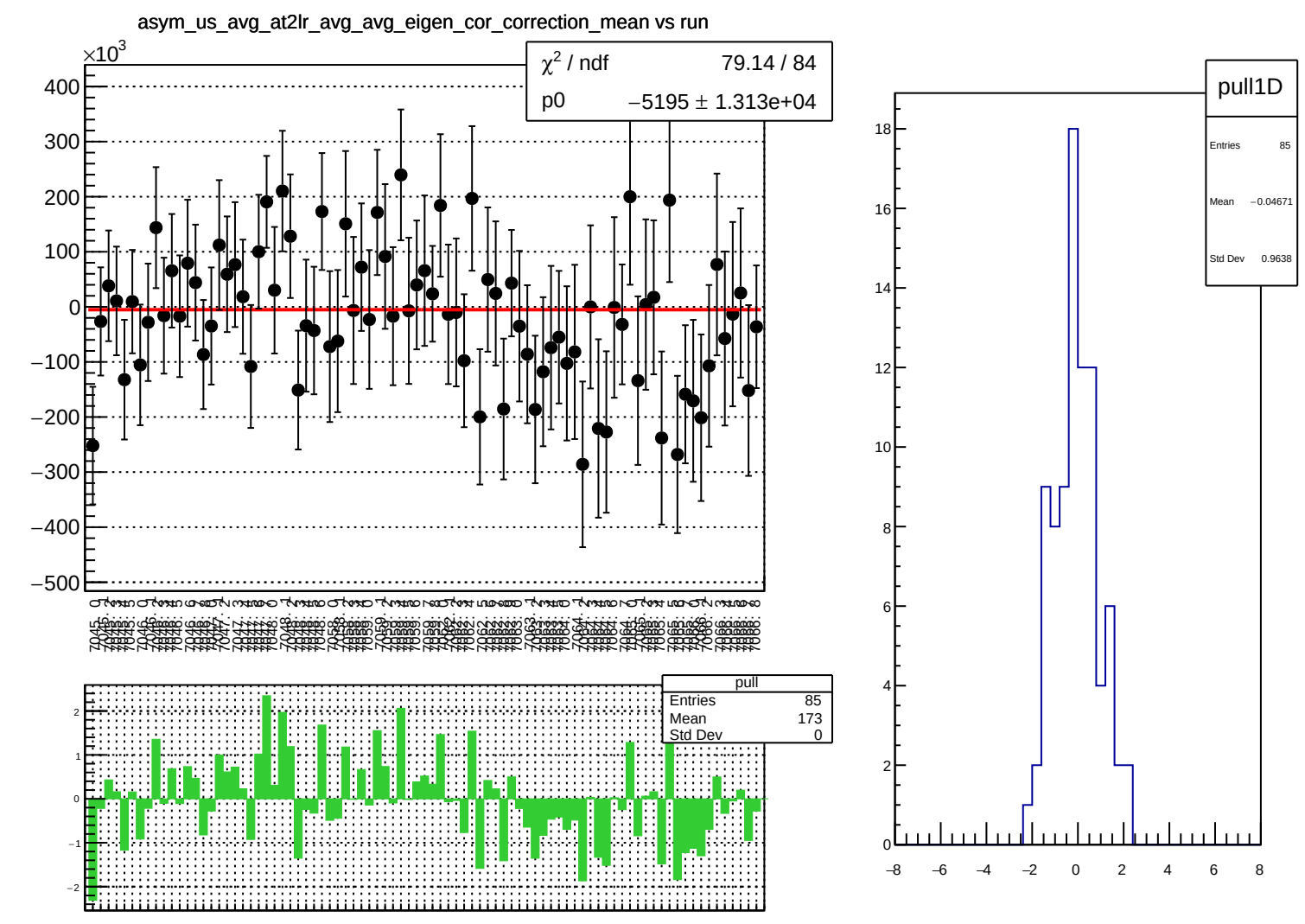

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.14 / 84
p0 −5195 ± 1.313e+04
pull
Entries 85
Mean 173
Std Dev 0
pull1D
Entries 85
Mean −0.04671
Std Dev 0.9638

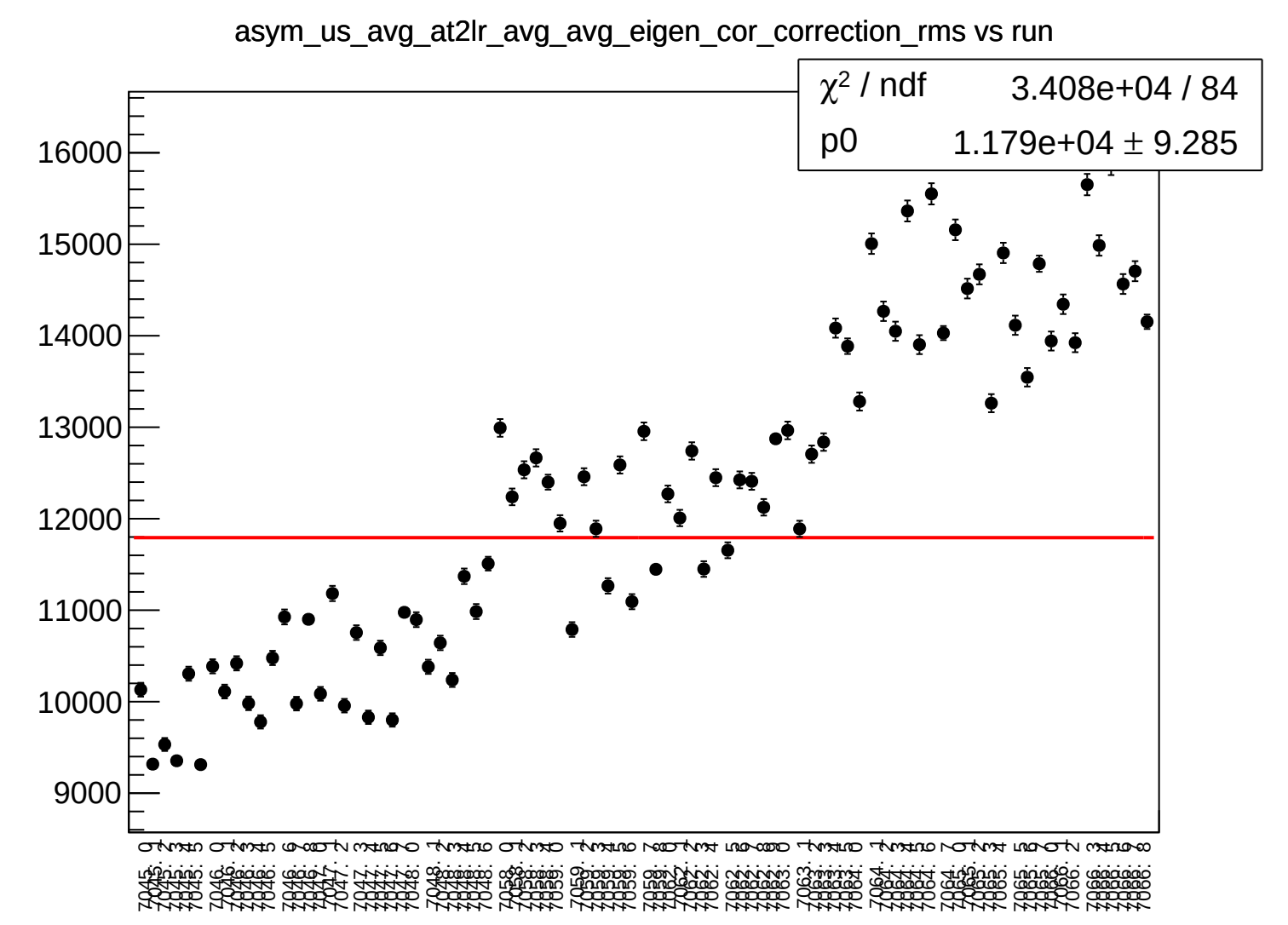

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.408e+04 / 84
p0 1.179e+04 ± 9.285
16000
15000
14000
13000
12000
11000
10000
9000

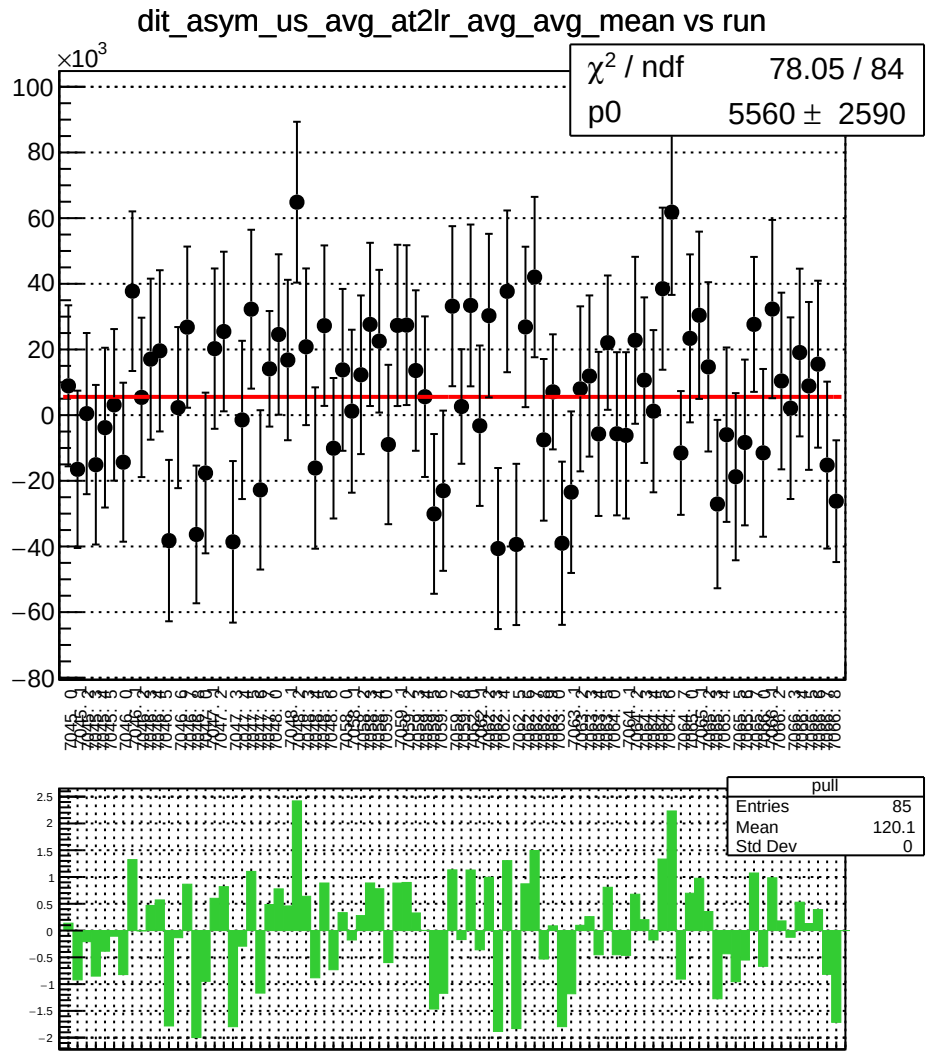

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 85.69 / 84
p0 7551 ± 2436
pull
Entries 85
Mean 340.7
Std Dev 0

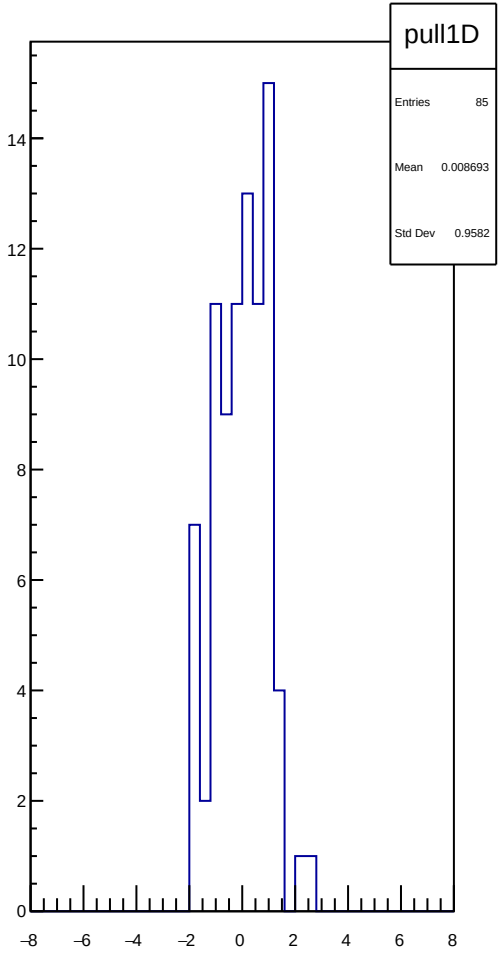

pull1D
Entries 85
Mean 0.009367
Std Dev 1.004

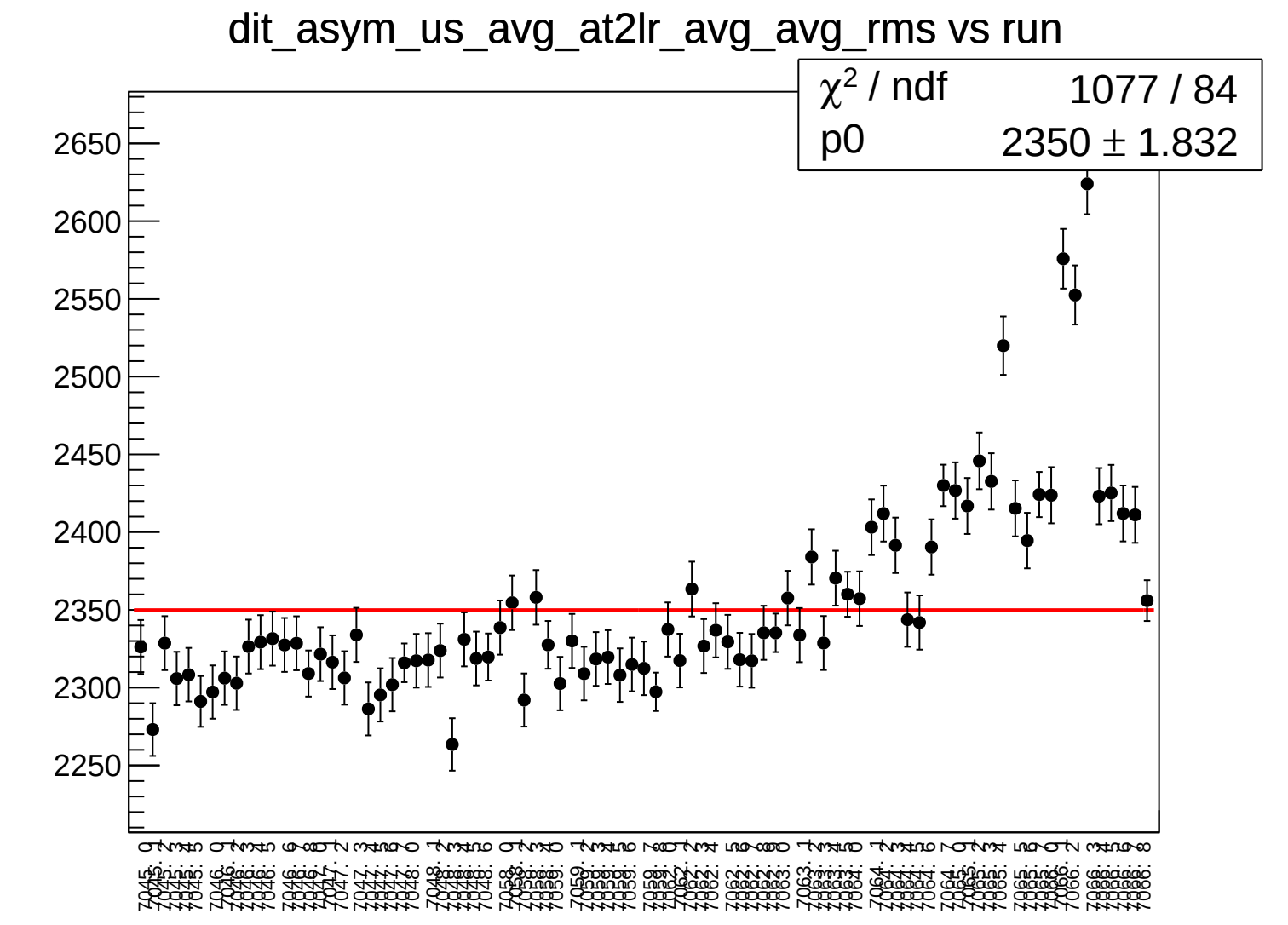

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 103.1 / 84
p0 2211 ± 1.722
2280
2260
2240
2220
2200
2180
2160
2140

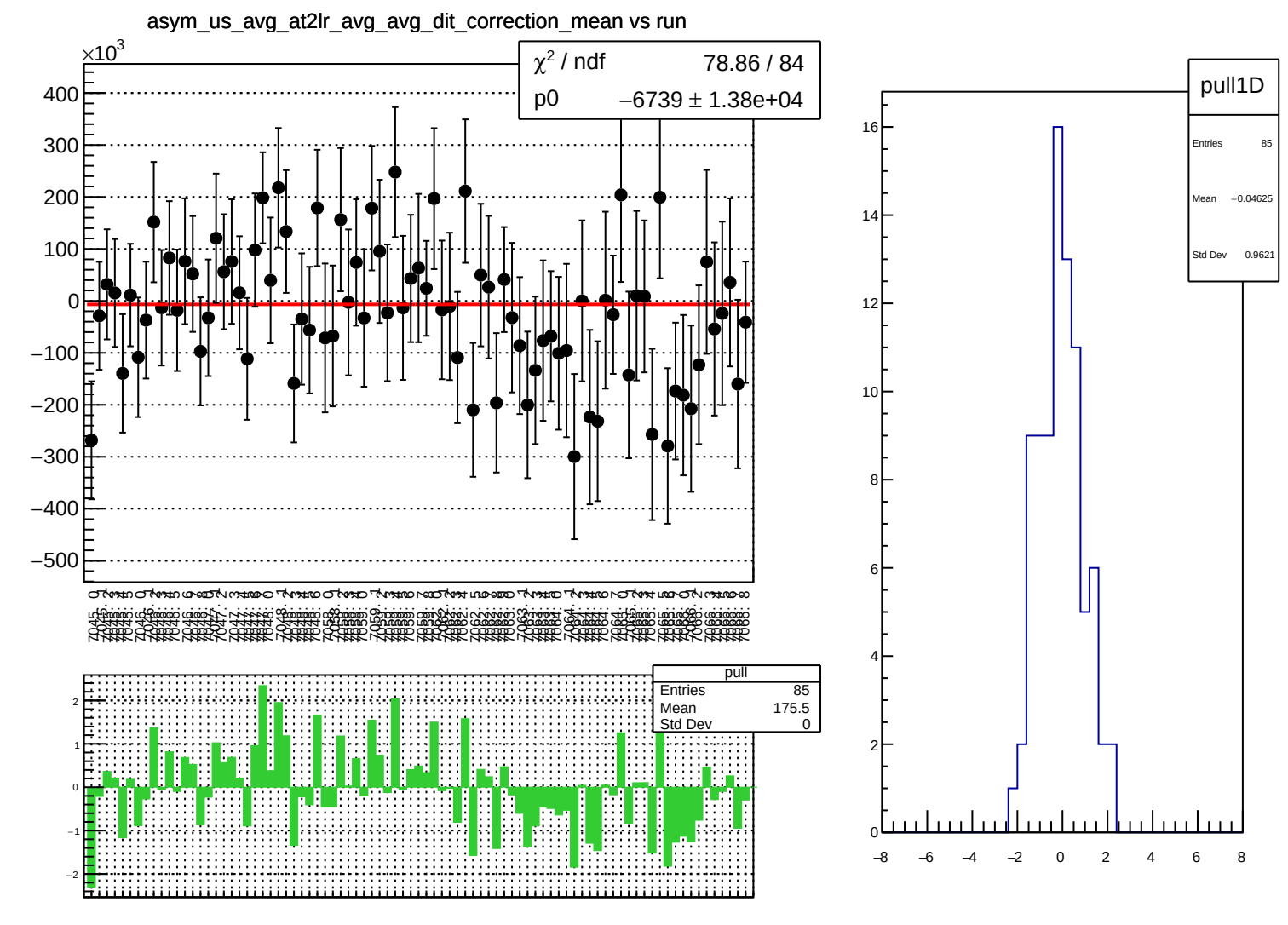

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.14 / 84
p0 −5195 ± 1.313e+04
pull
Entries 85
Mean 173
Std Dev 0
pull1D
Entries 85
Mean −0.04671
Std Dev 0.9638

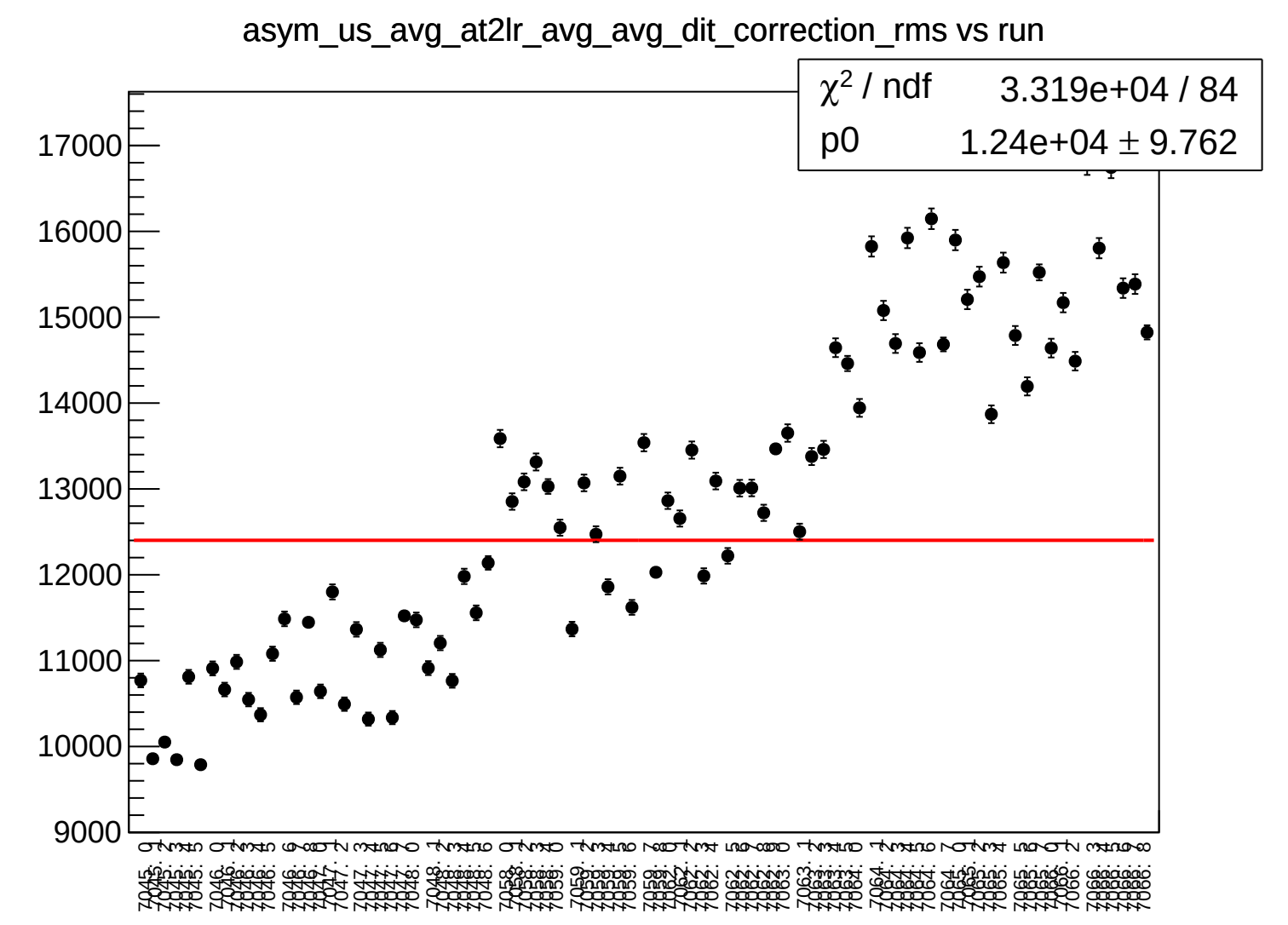

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3.408e+04 / 84
p0 1.179e+04 ± 9.285
16000
15000
14000
13000
12000
11000
10000
9000

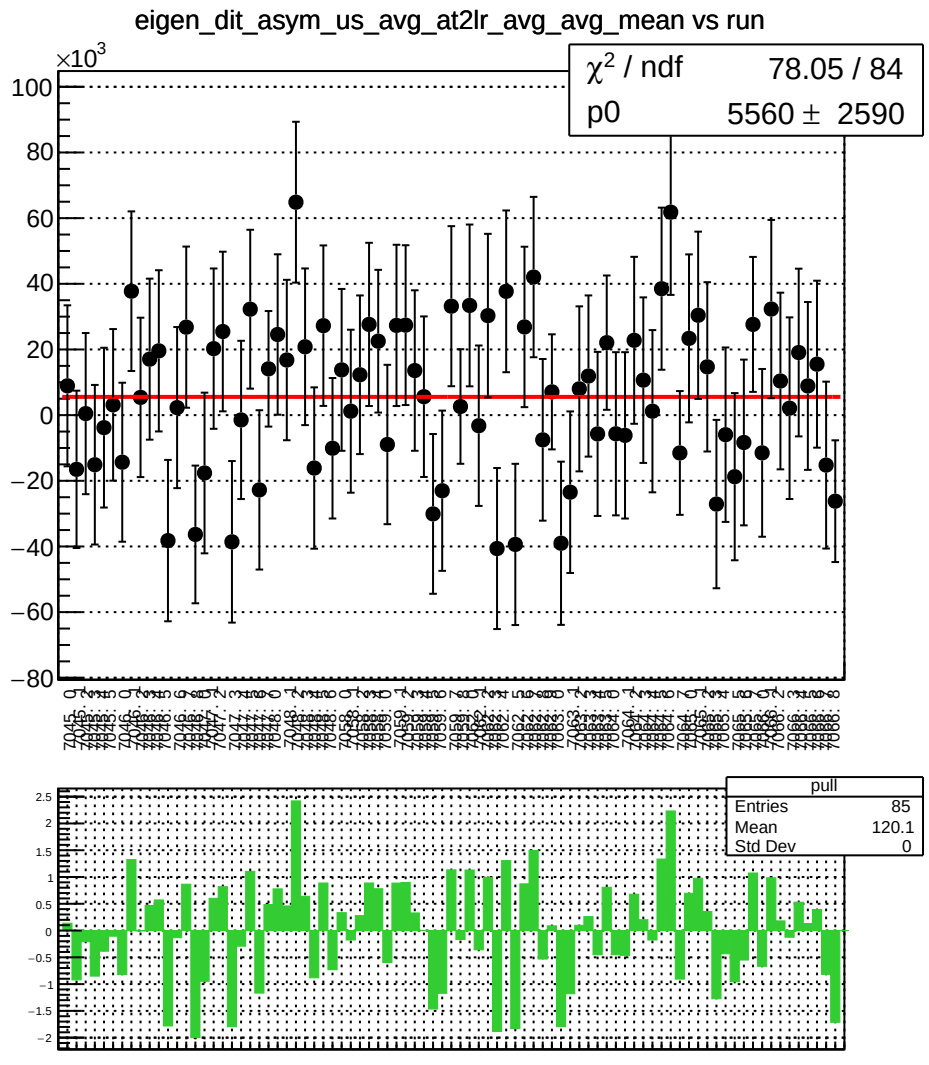

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 78.05 / 84
p0 5560 ± 2590
pull
Entries 85
Mean 120.1
Std Dev 0

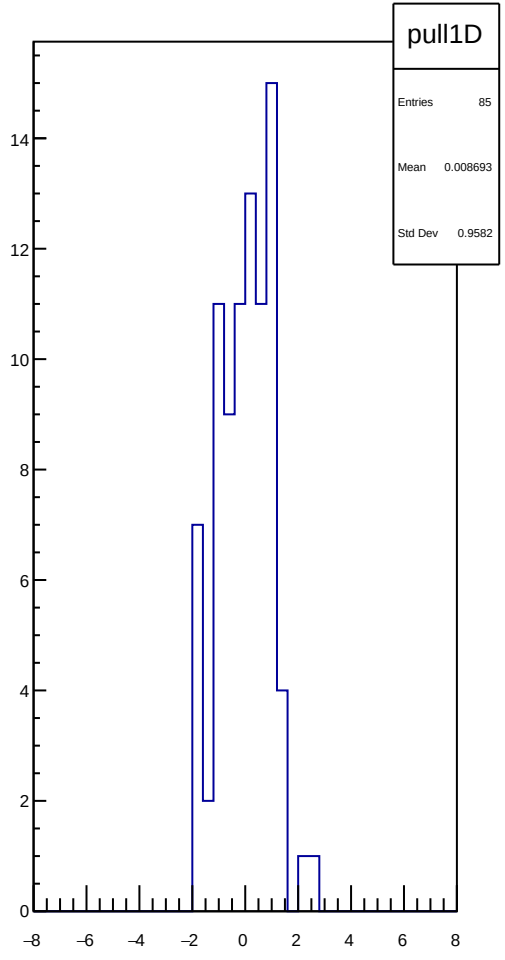

pull1D
Entries 85
Mean 0.008693
Std Dev 0.9582

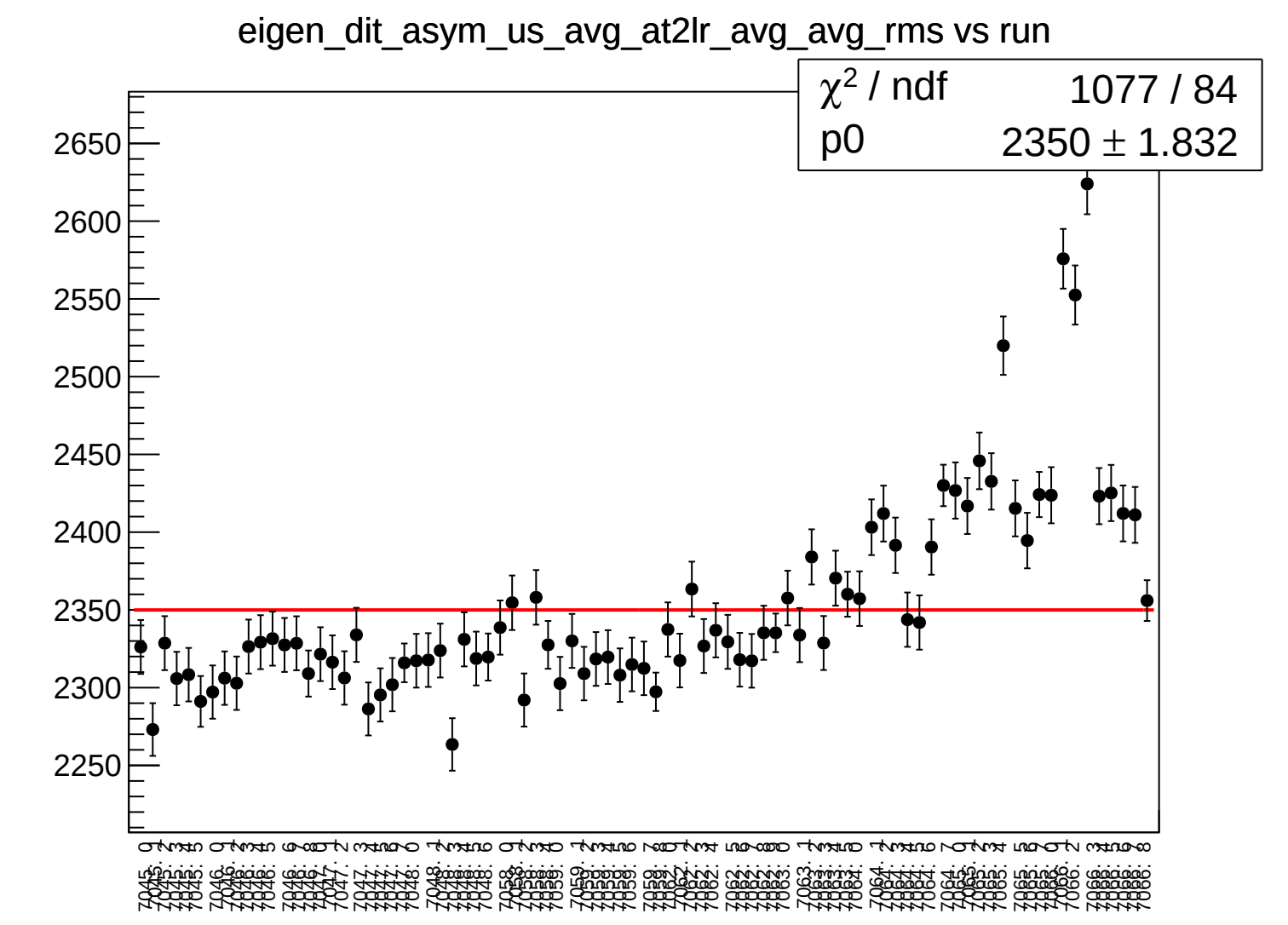

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1077 / 84
p0 2350 ± 1.832
2650
2600
2550
2500
2450
2400
2350
2300
2250

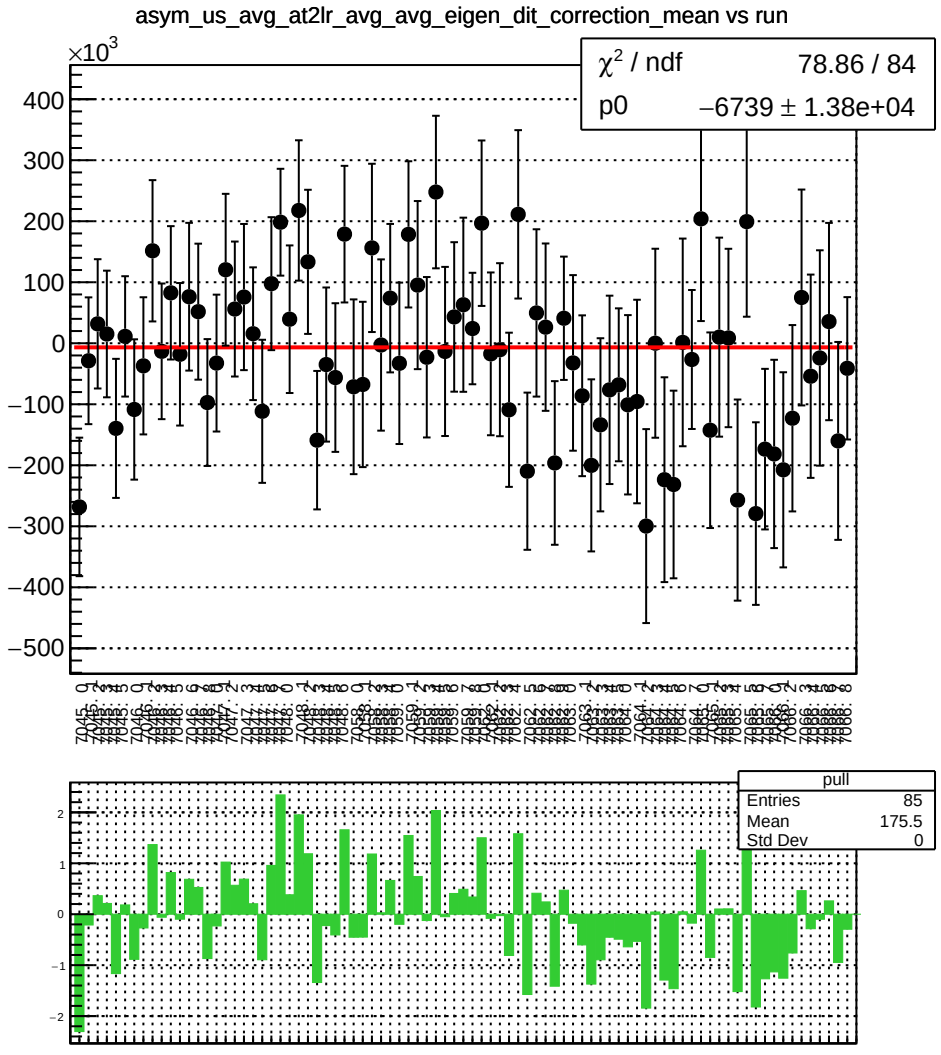

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.86 / 84
p0 −6739 ± 1.38e+04
pull
Entries 85
Mean 175.5
Std Dev 0
pull1D
Entries 85
Mean −0.04625
Std Dev 0.9621

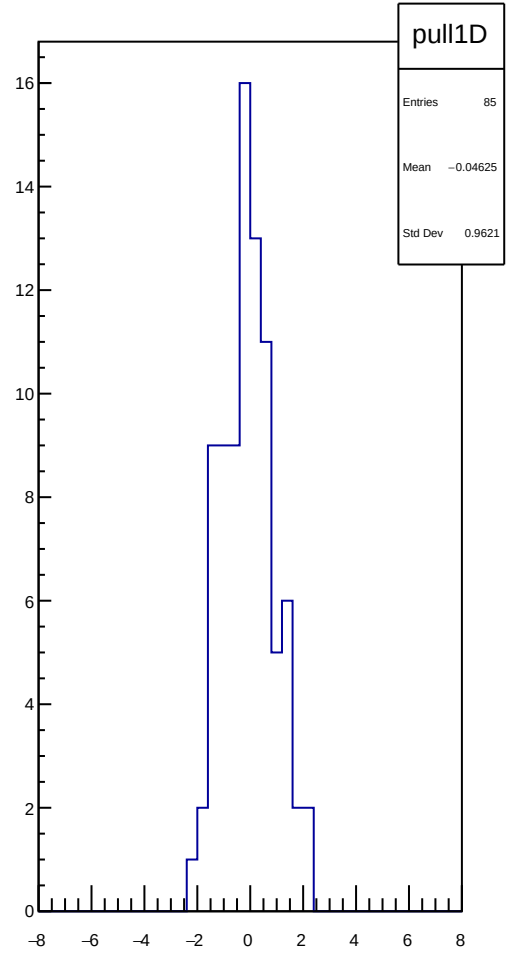

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 3.319e+04 / 84
p0 1.24e+04 ± 9.762
17000
16000
15000
14000
13000
12000
11000
10000
9000

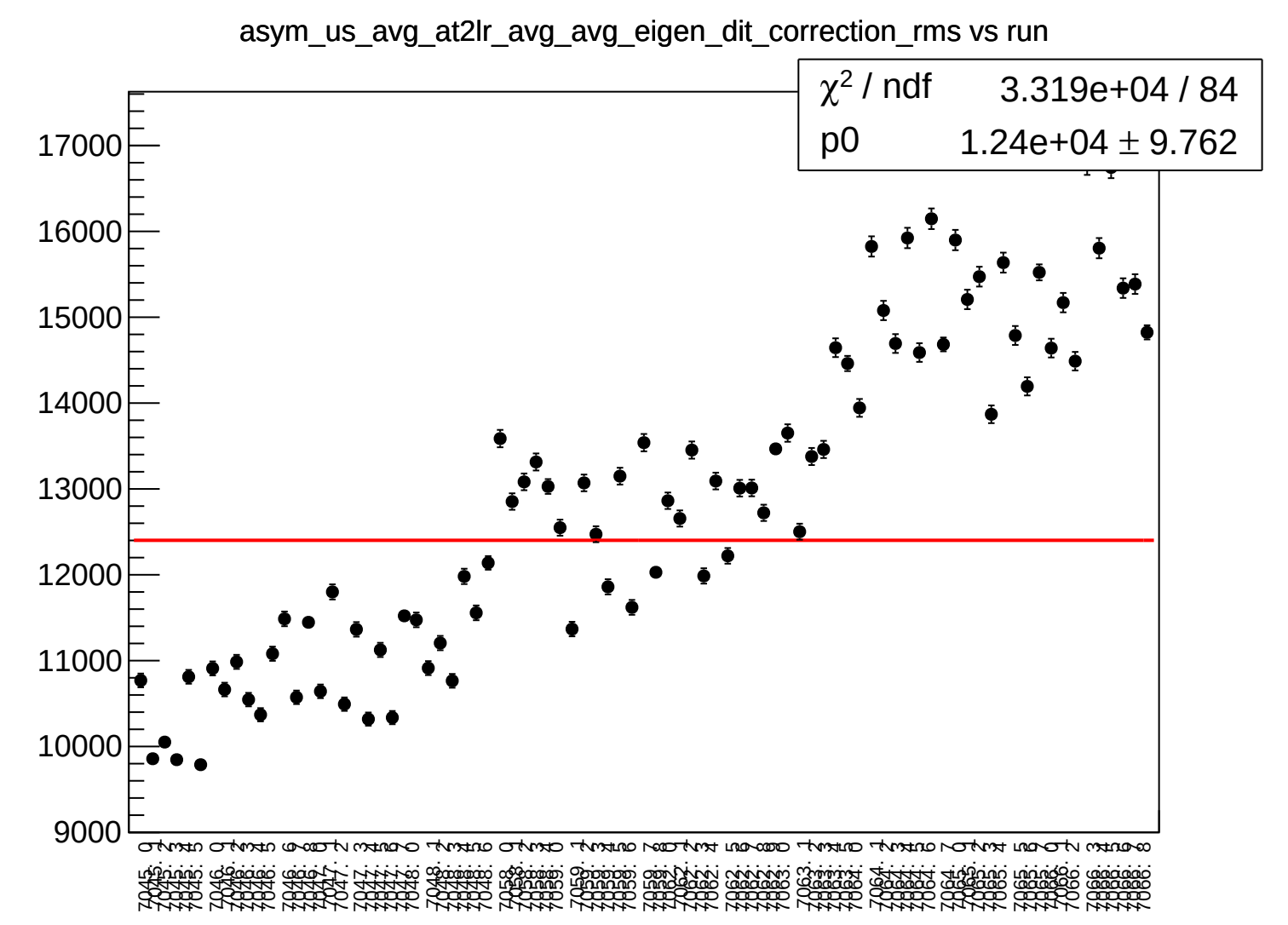

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 78.05 / 84
p0 5560 ± 2590
×10³
pull
Entries 85
Mean 120.1
Std Dev 0

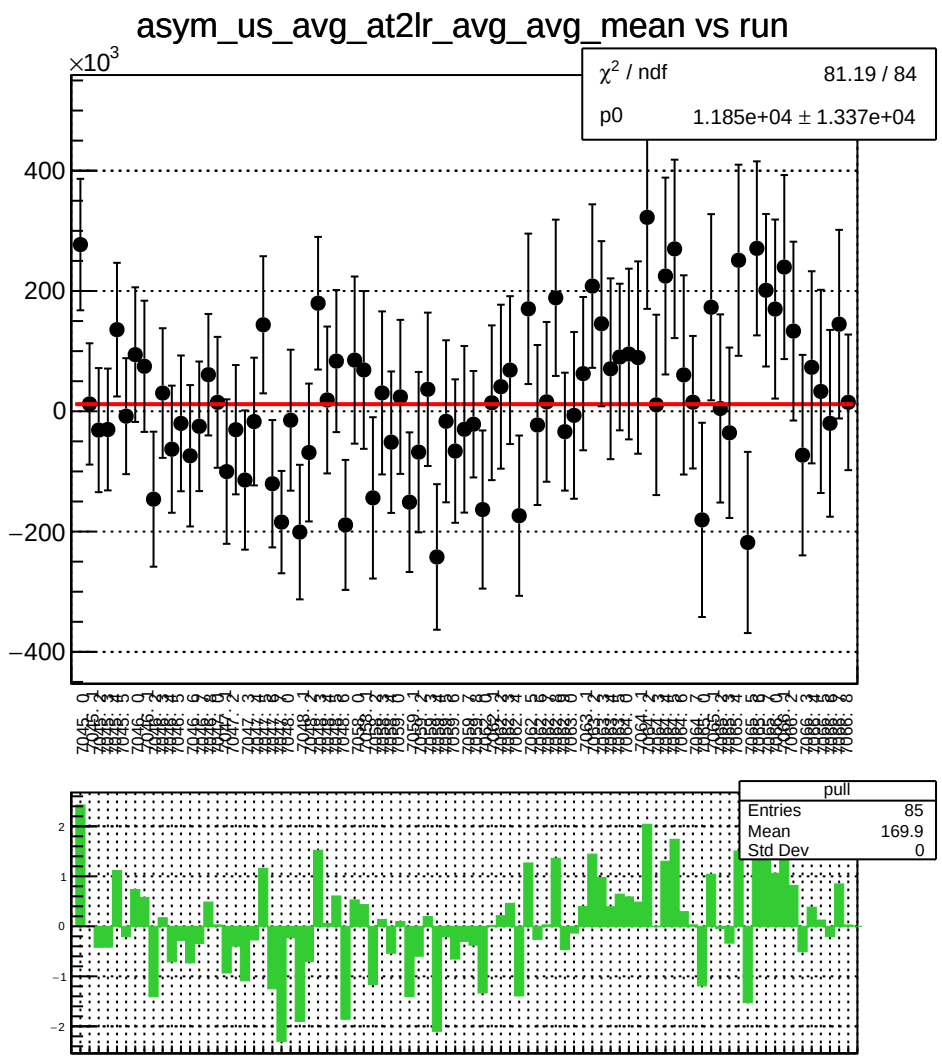

pull1D
Entries 85
Mean 0.008693
Std Dev 0.9582

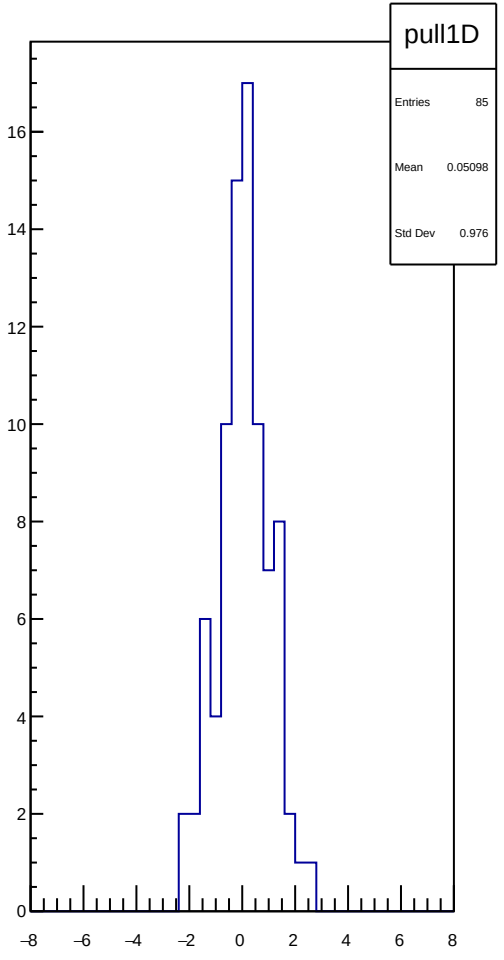

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1077 / 84
p0 2350 ± 1.832
2650
2600
2550
2500
2450
2400
2350
2300
2250

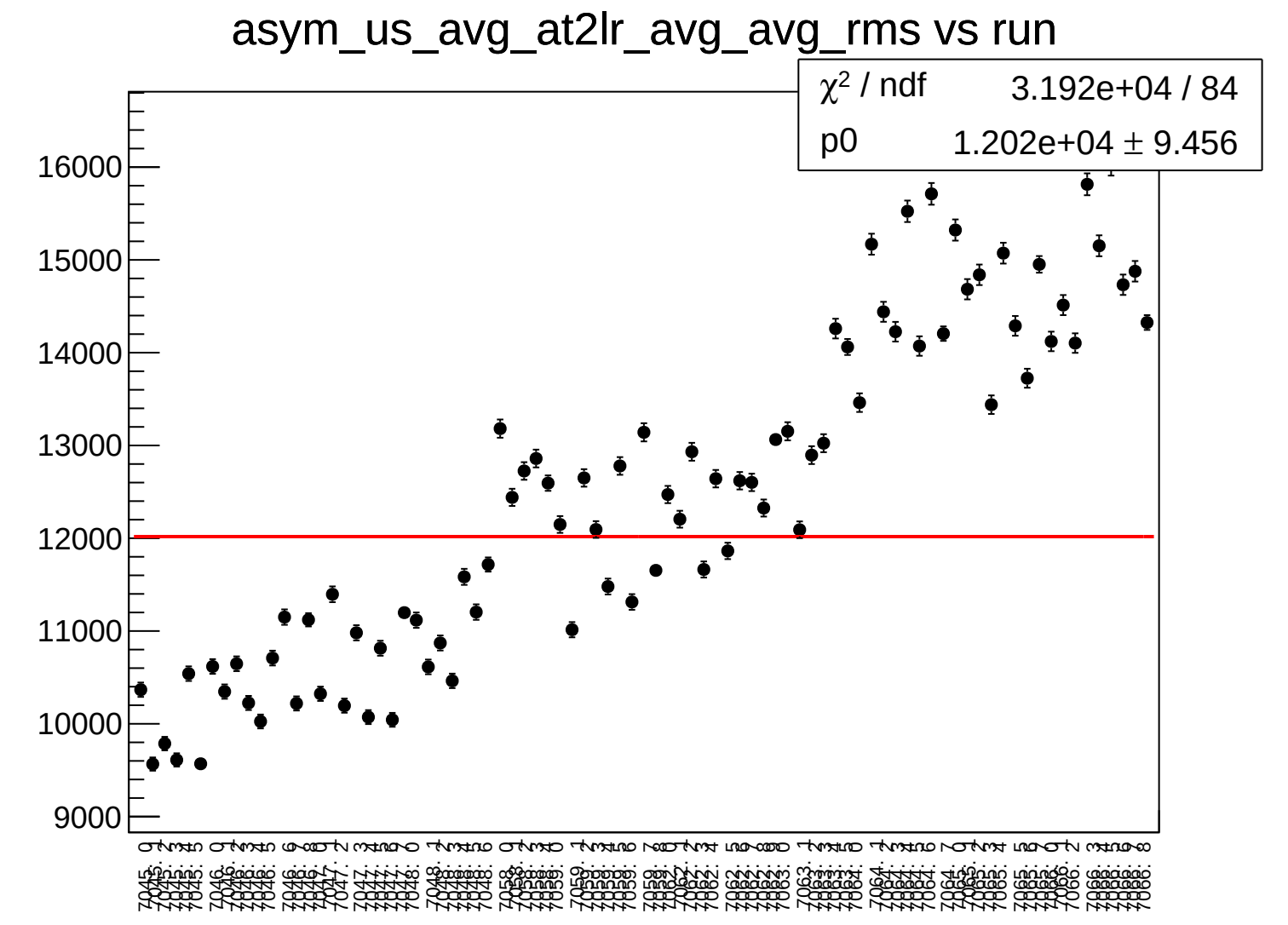

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.86 / 84
p0 −6739 ± 1.38e+04
pull
Entries 85
Mean 175.5
Std Dev 0

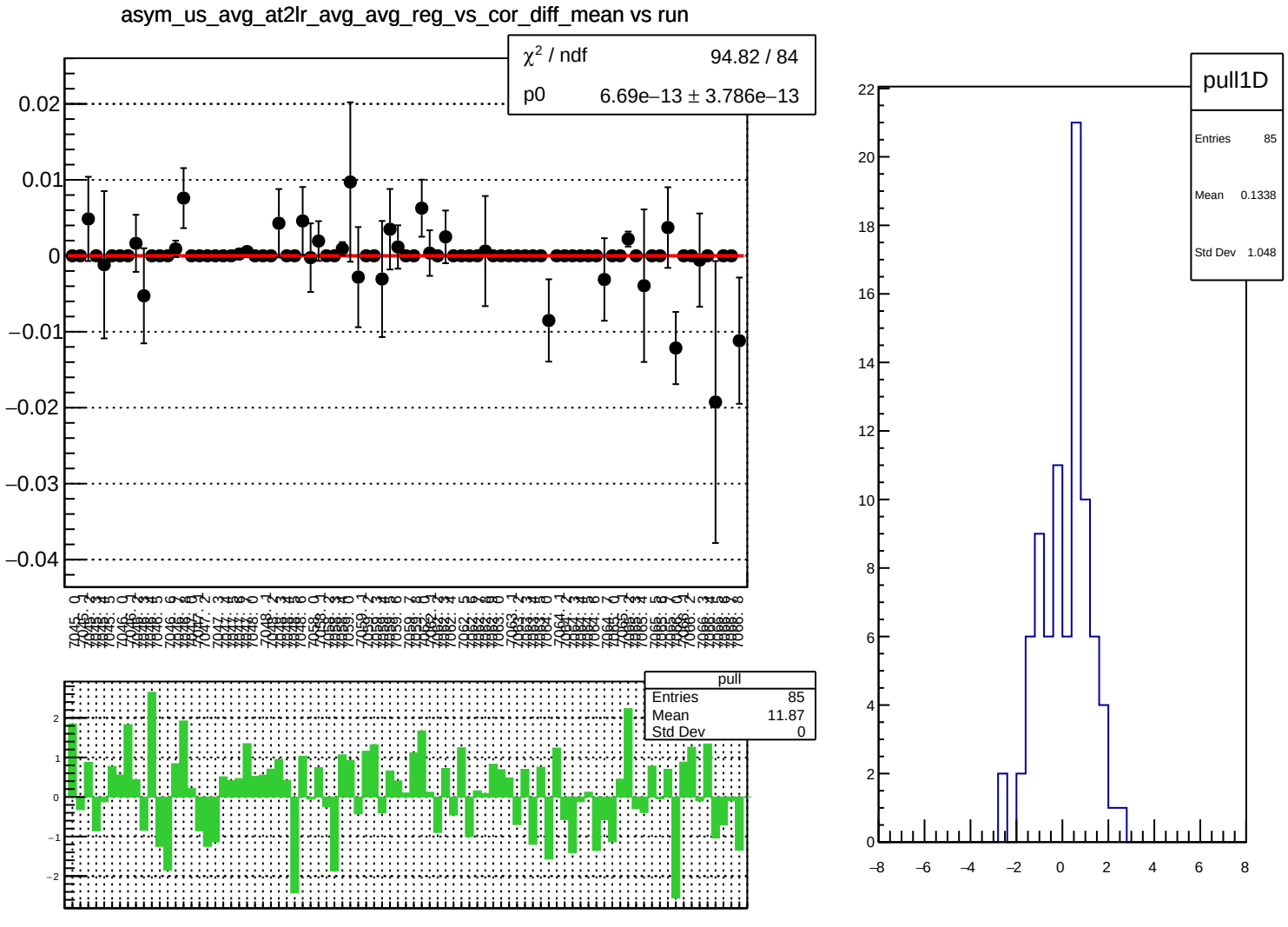

pull1D
Entries 85
Mean −0.04625
Std Dev 0.9621

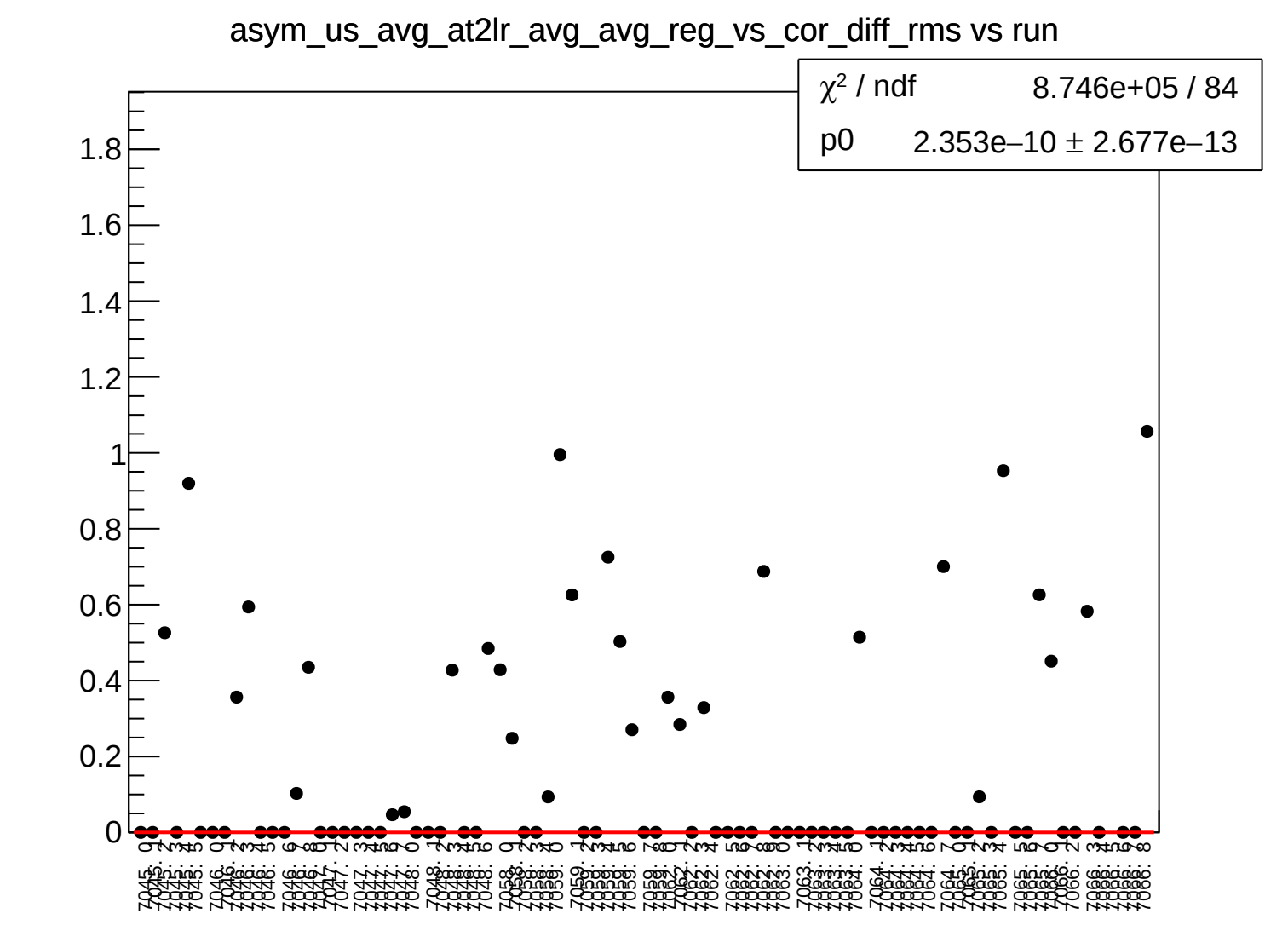

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.319e+04 / 84
p0 1.24e+04 ± 9.762
17000
16000
15000
14000
13000
12000
11000
10000
9000

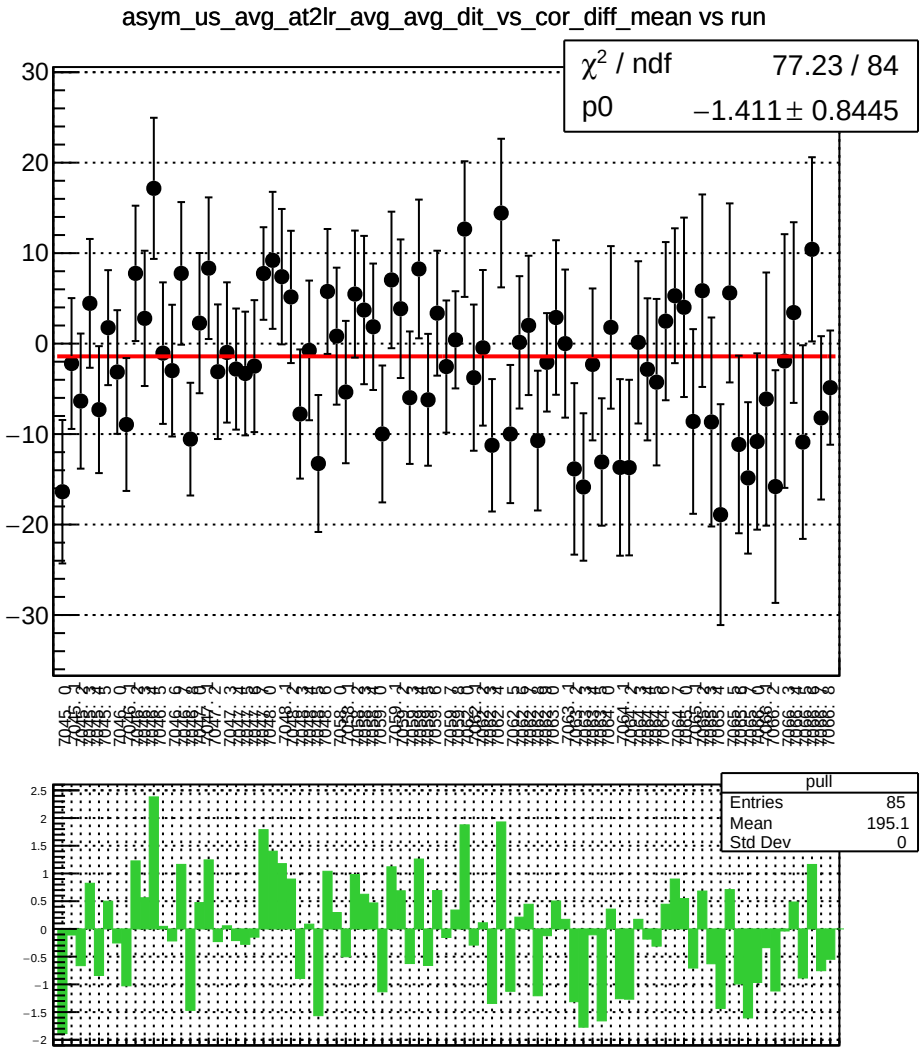

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.19 / 84
p0 1.185e+04 ± 1.337e+04
400
200
0
−200
−400
pull
Entries 85
Mean 169.9
Std Dev 0
2
1
0
−1
−2

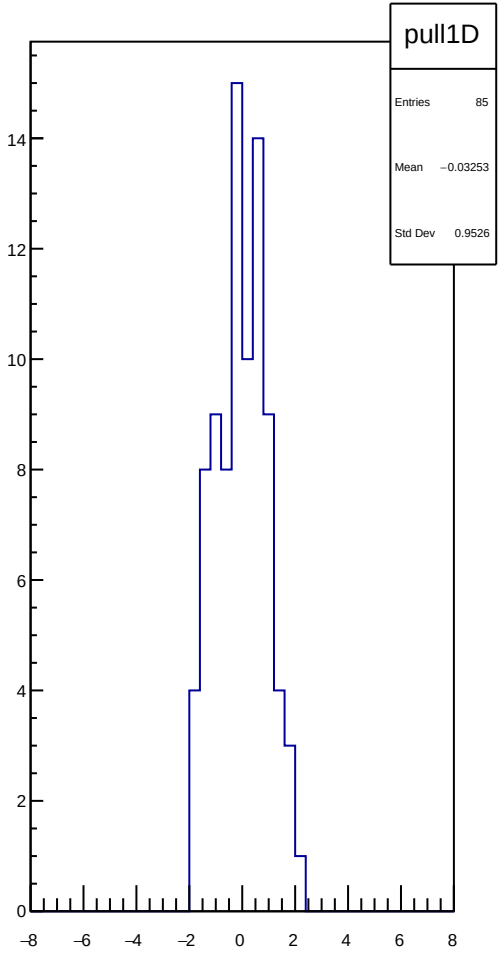

pull1D
Entries 85
Mean 0.05098
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

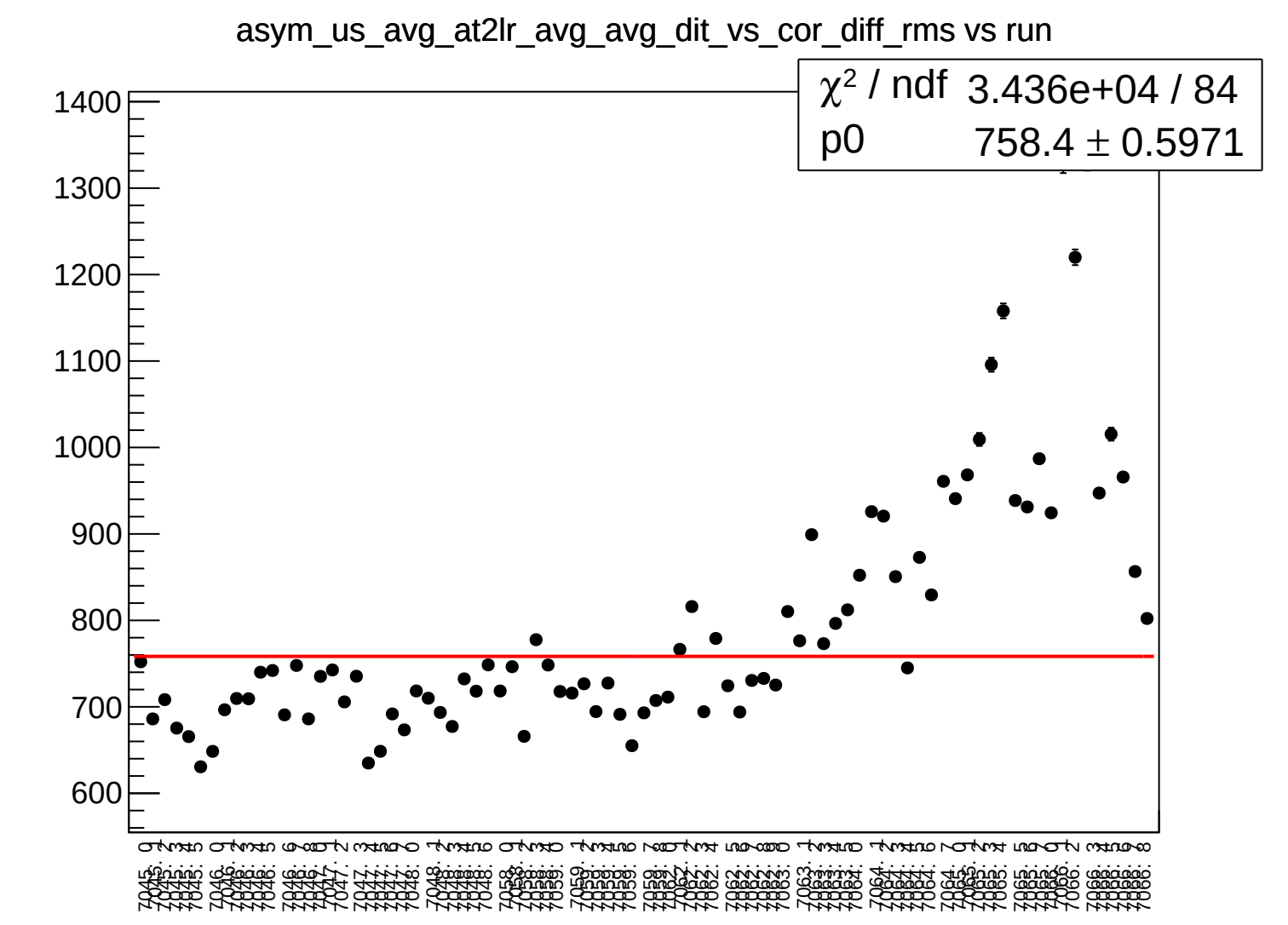

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3.192e+04 / 84
p0 1.202e+04 ± 9.456
16000
15000
14000
13000
12000
11000
10000
9000

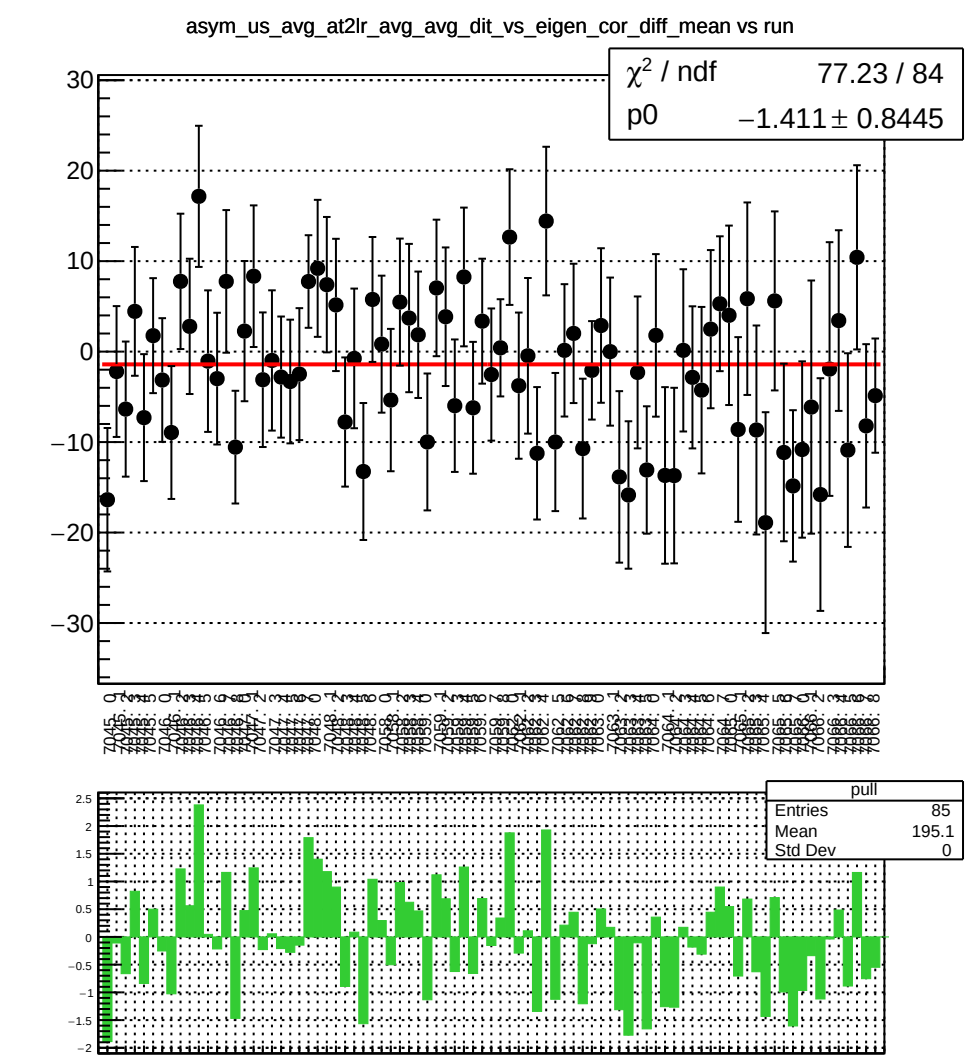

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.82 / 84
p0 6.69e−13 ± 3.786e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean 11.87
Std Dev 0
pull1D
Entries 85
Mean 0.1338
Std Dev 1.048

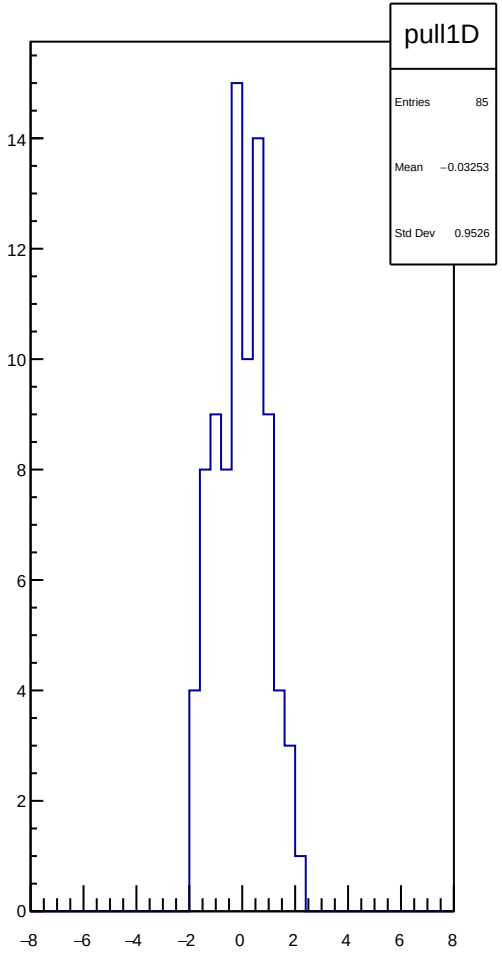

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.746e+05 / 84
p0 2.353e−10 ± 2.677e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

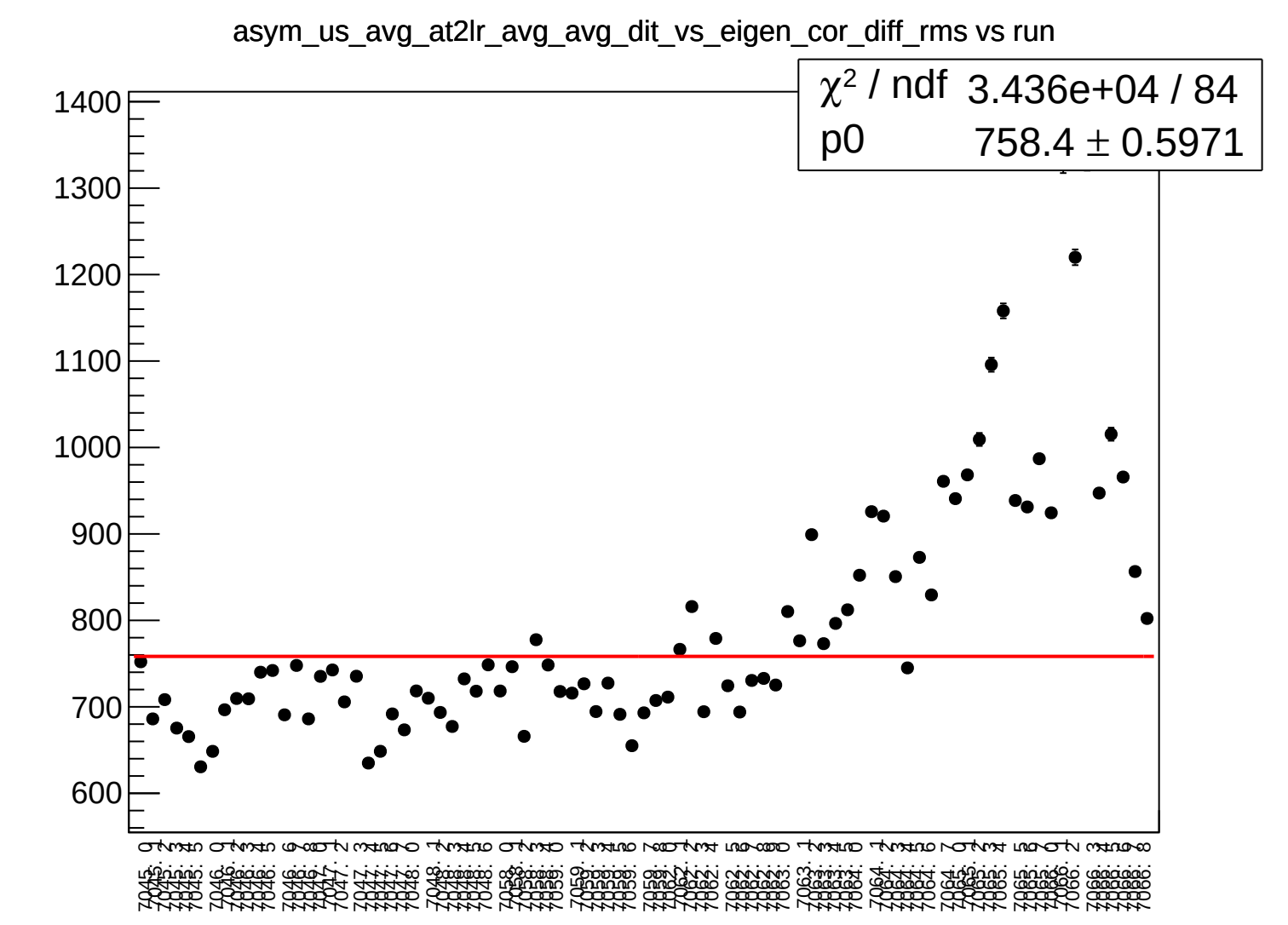

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 84
p0 −1.411 ± 0.8445
pull
Entries 85
Mean 195.1
Std Dev 0

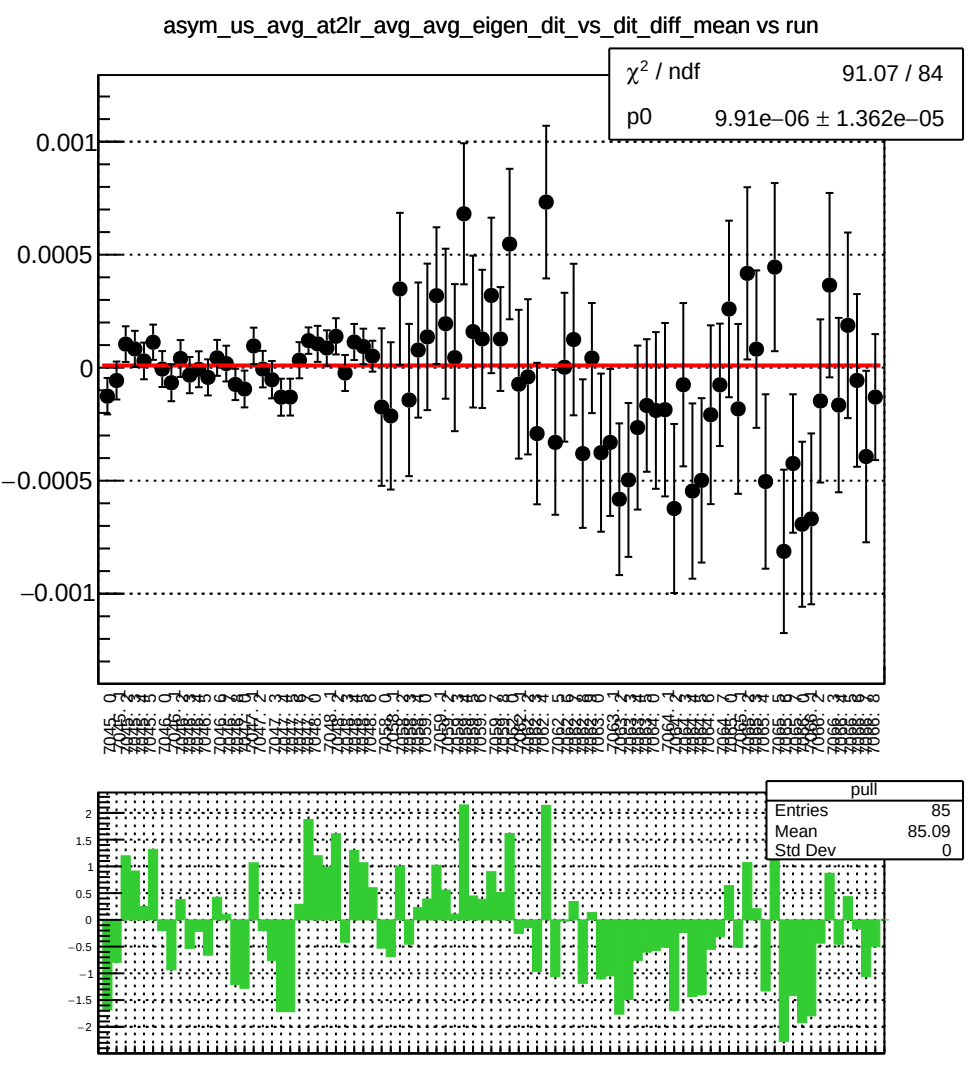

pull1D
Entries 85
Mean −0.03253
Std Dev 0.9526

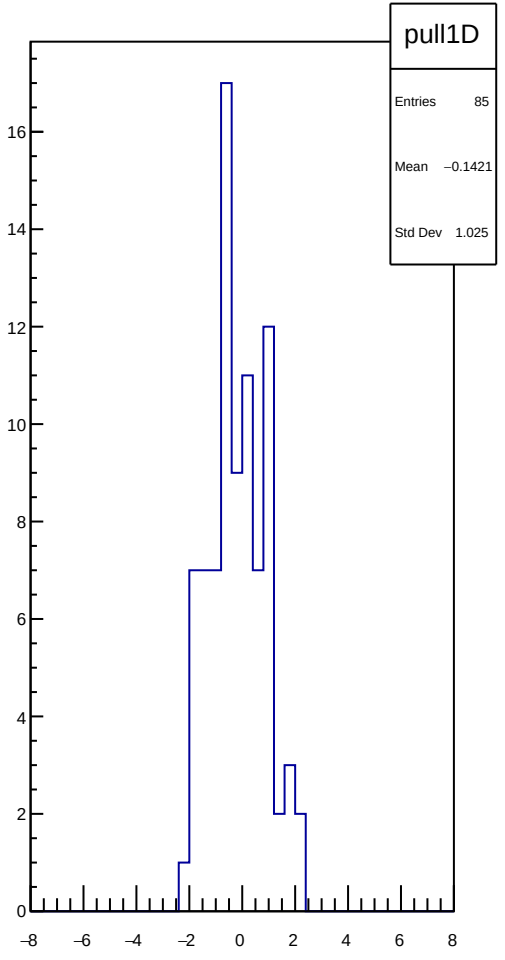

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.436e+04 / 84
p0 758.4 ± 0.5971
1400
1300
1200
1100
1000
900
800
700
600

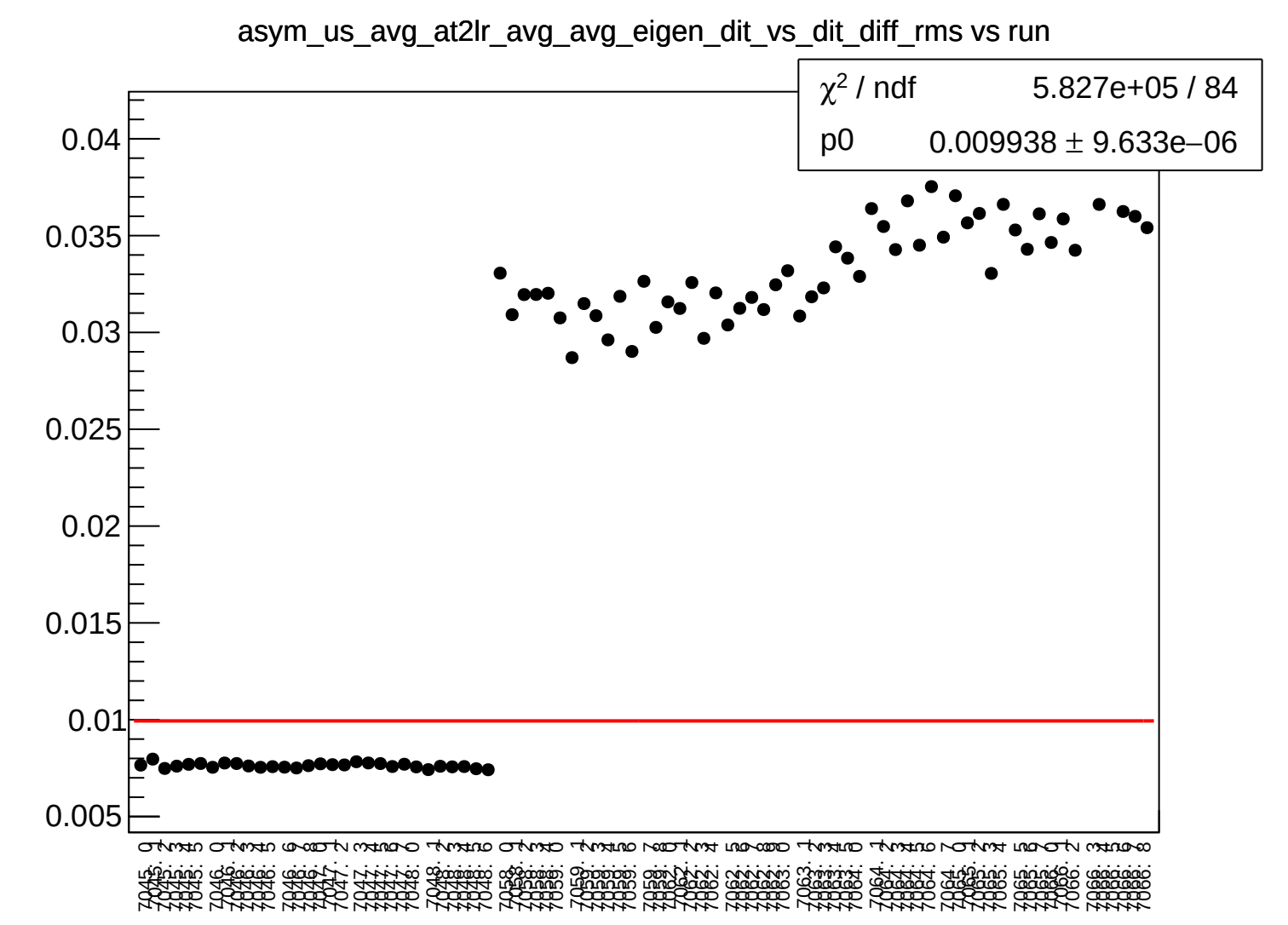

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.23 / 84
p0 −1.411 ± 0.8445
pull
Entries 85
Mean 195.1
Std Dev 0

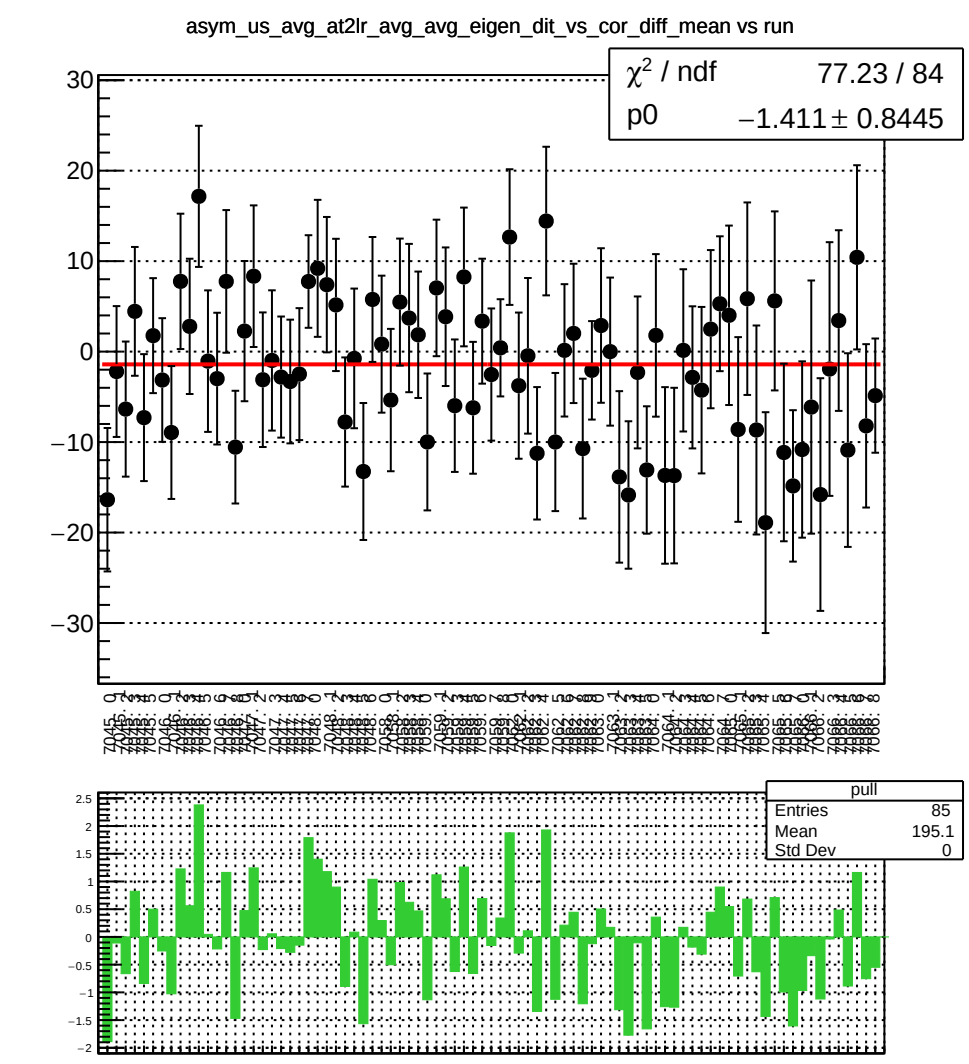

pull1D
Entries 85
Mean −0.03253
Std Dev 0.9526

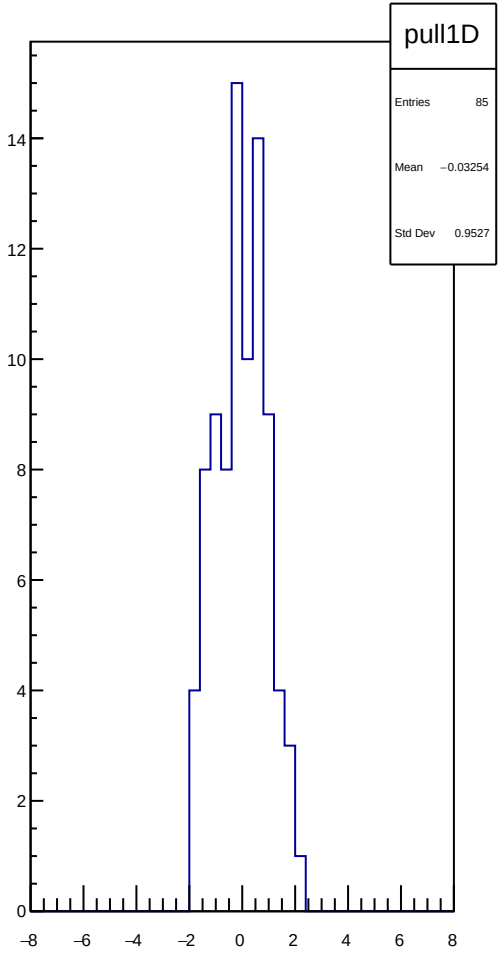

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.436e+04 / 84
p0 758.4 ± 0.5971
1400
1300
1200
1100
1000
900
800
700
600

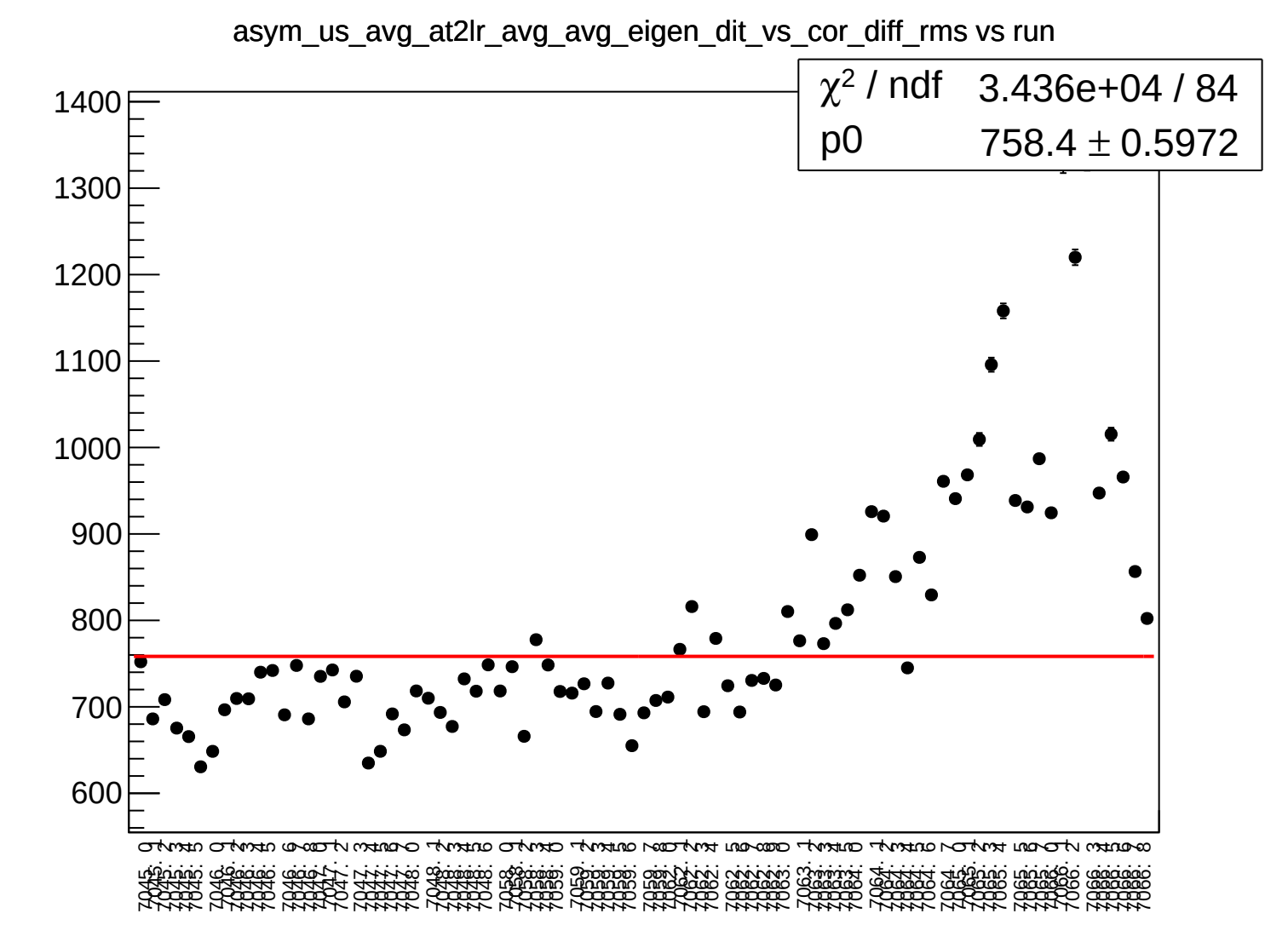

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.07 / 84
p0 9.91e−06 ± 1.362e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 85.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

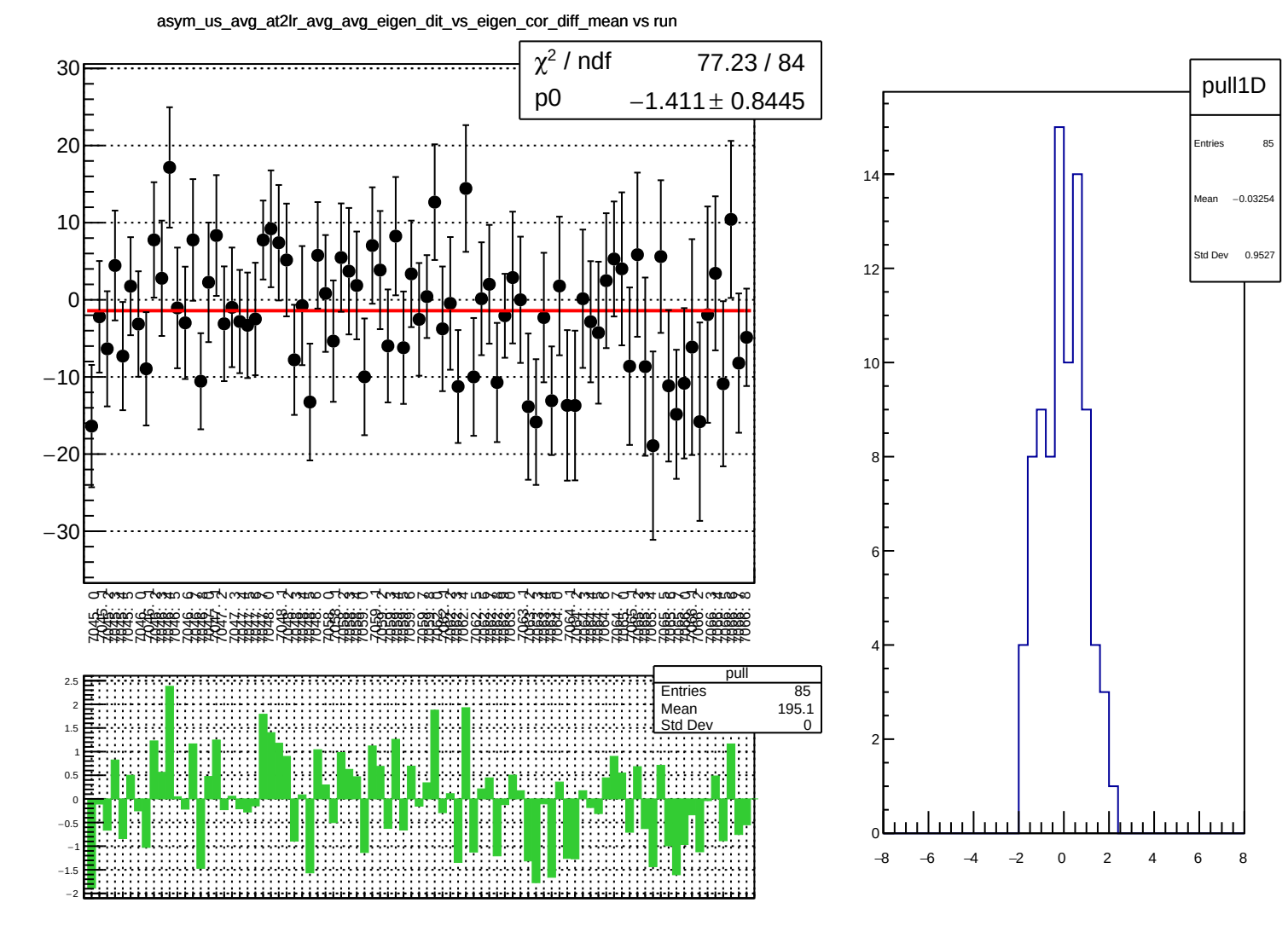

pull1D
Entries 85
Mean −0.1421
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

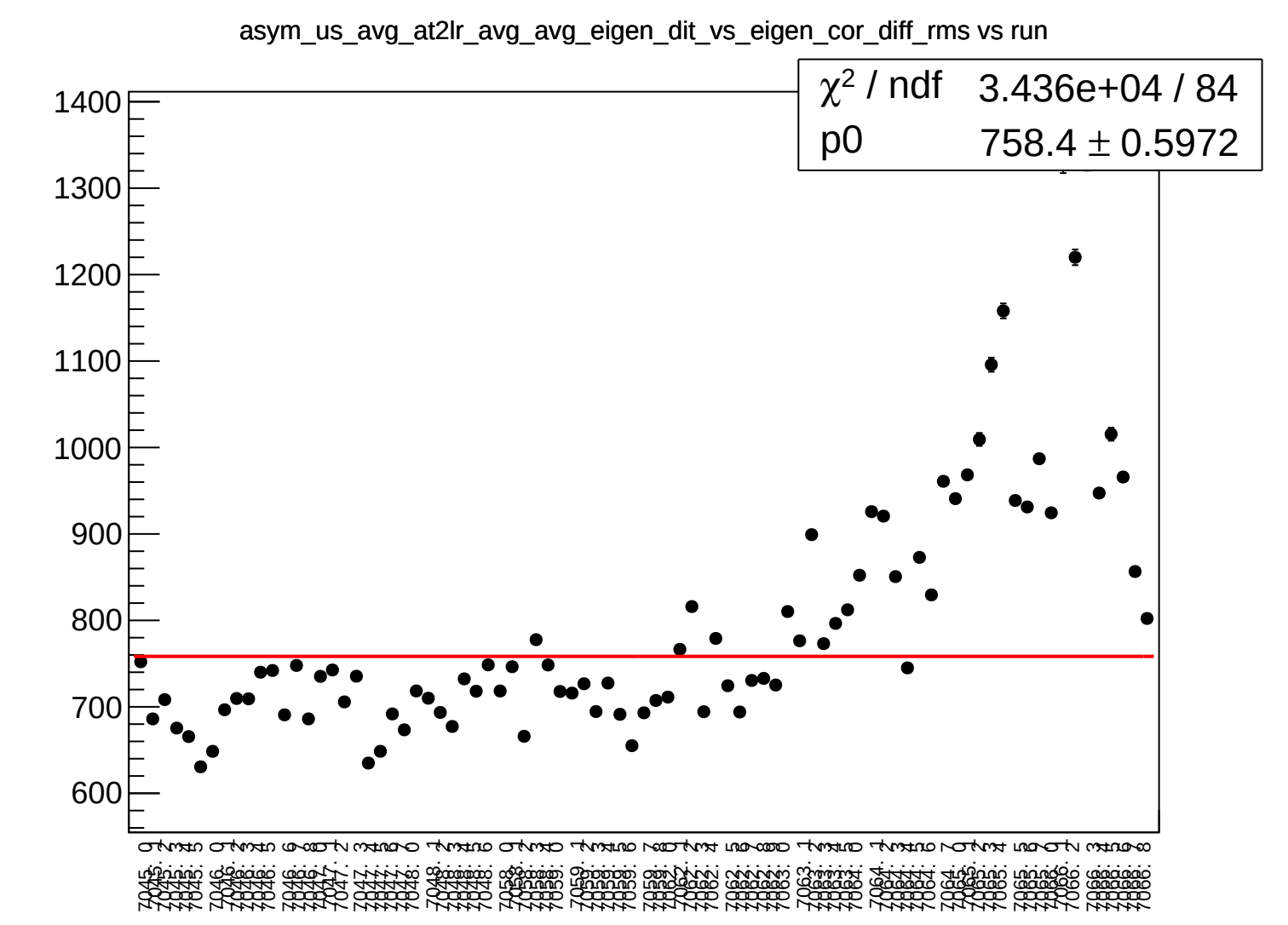

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.827e+05 / 84
p0 0.009938 ± 9.633e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

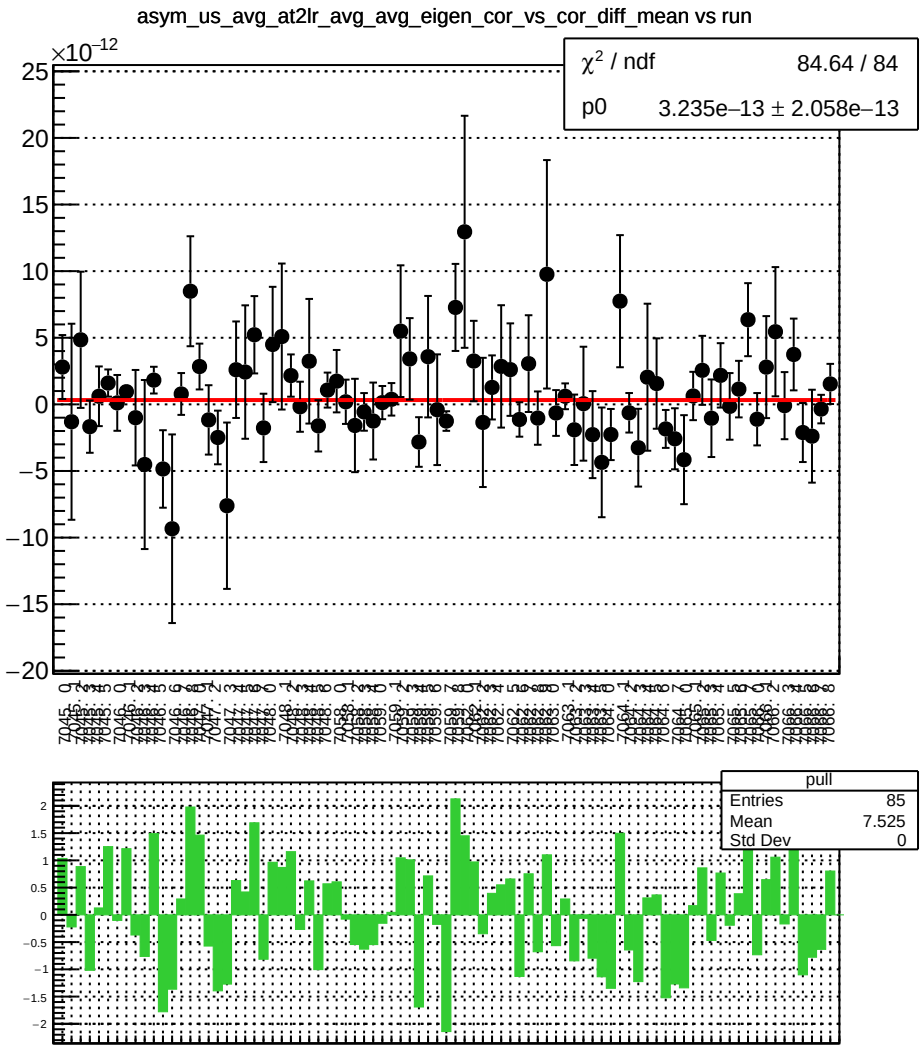

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 84
p0 −1.411 ± 0.8445
pull
Entries 85
Mean 195.1
Std Dev 0

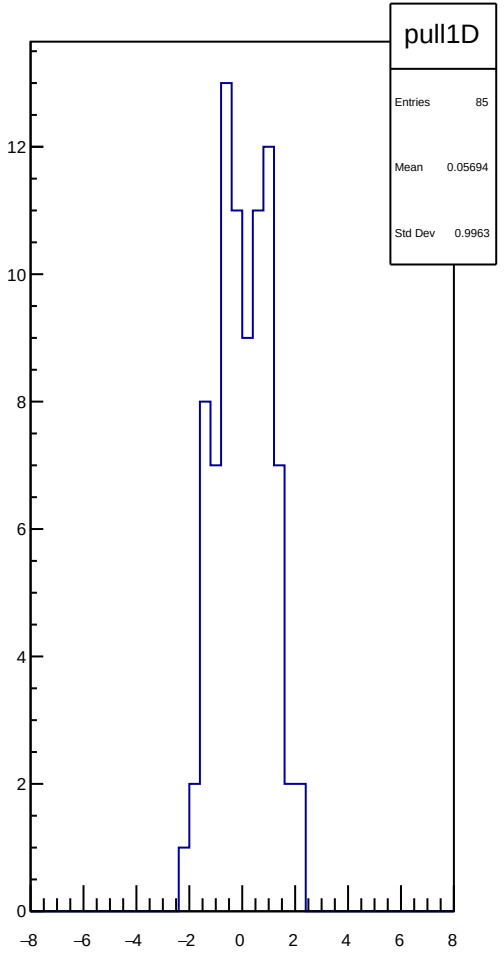

pull1D
Entries 85
Mean −0.03254
Std Dev 0.9527

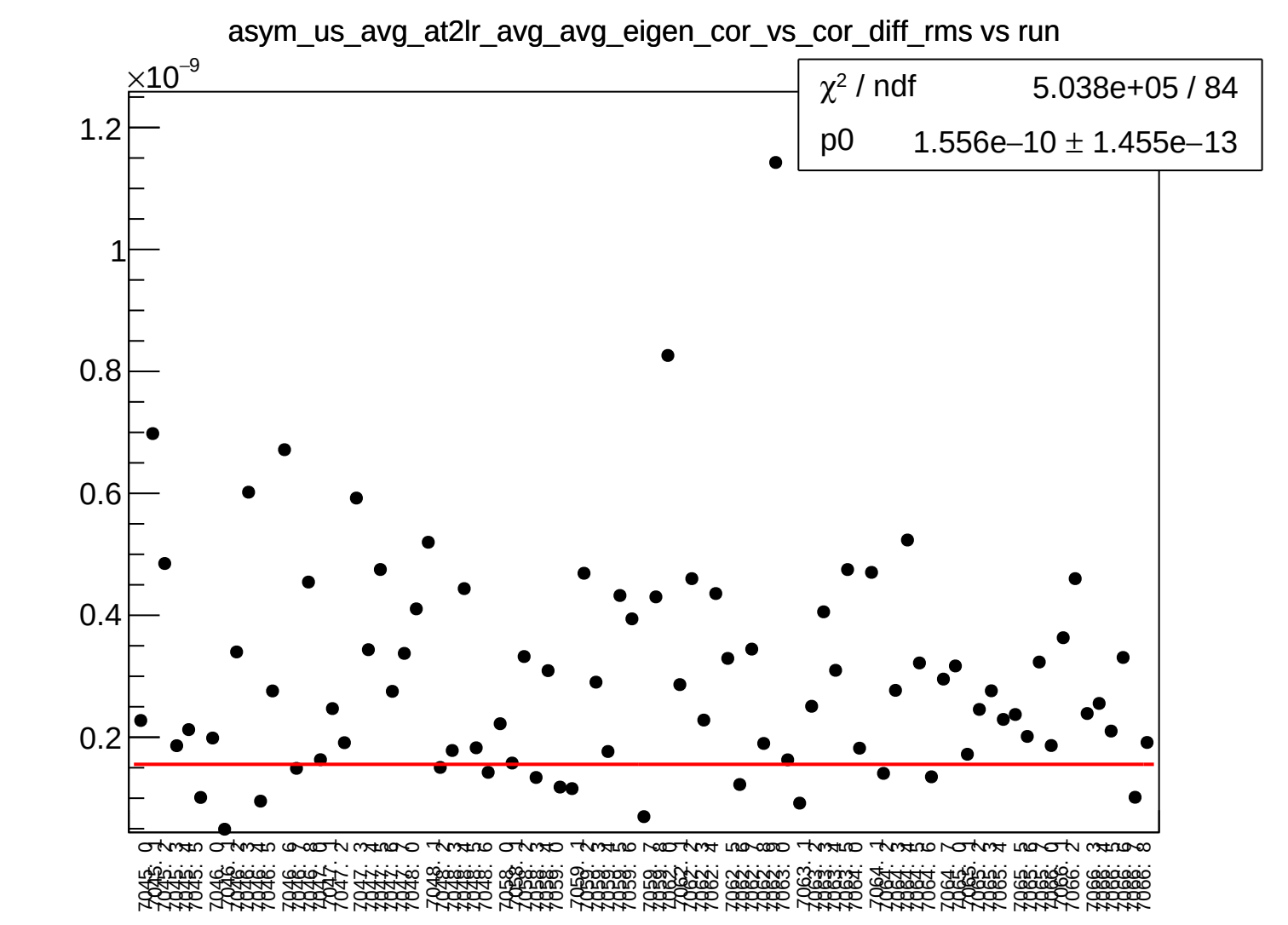

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.436e+04 / 84
p0 758.4 ± 0.5972
1400
1300
1200
1100
1000
900
800
700
600

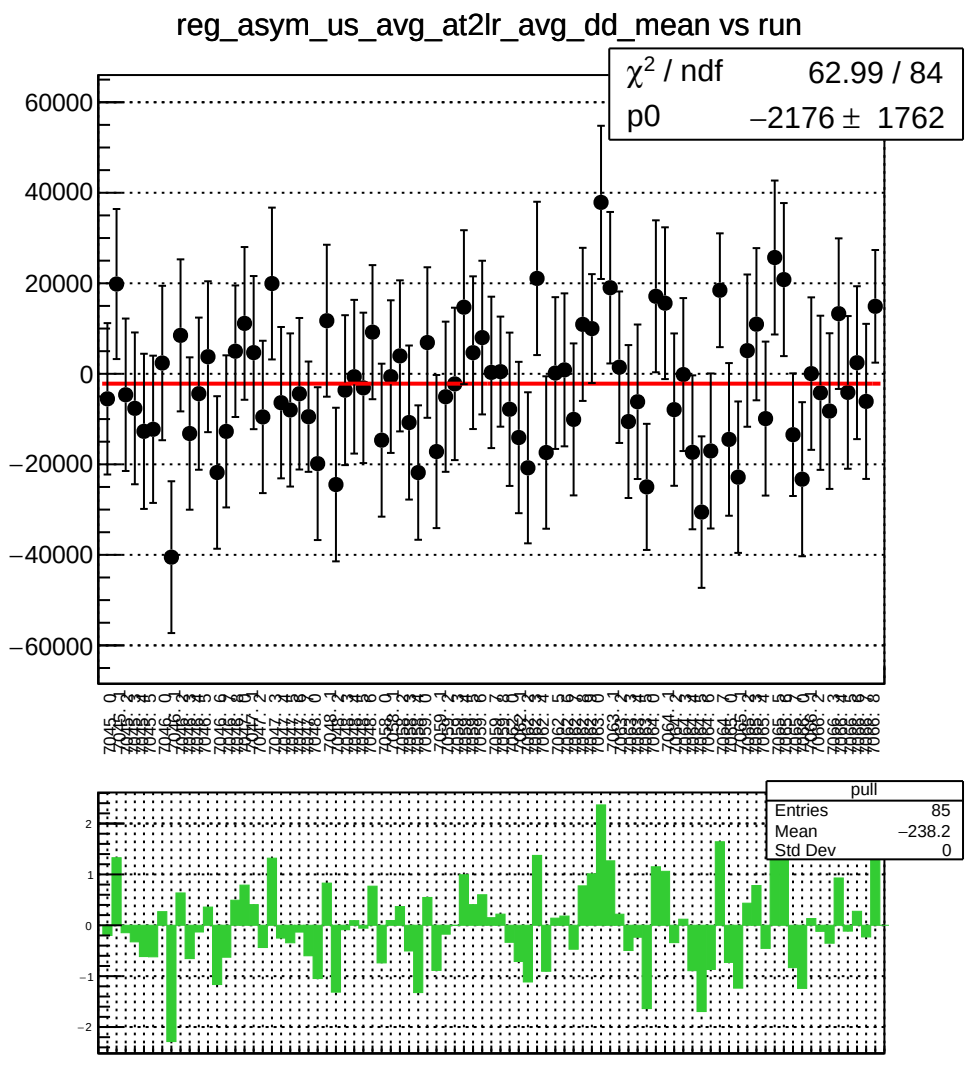

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.23 / 84
p0 −1.411 ± 0.8445
pull
Entries 85
Mean 195.1
Std Dev 0
pull1D
Entries 85
Mean −0.03254
Std Dev 0.9527

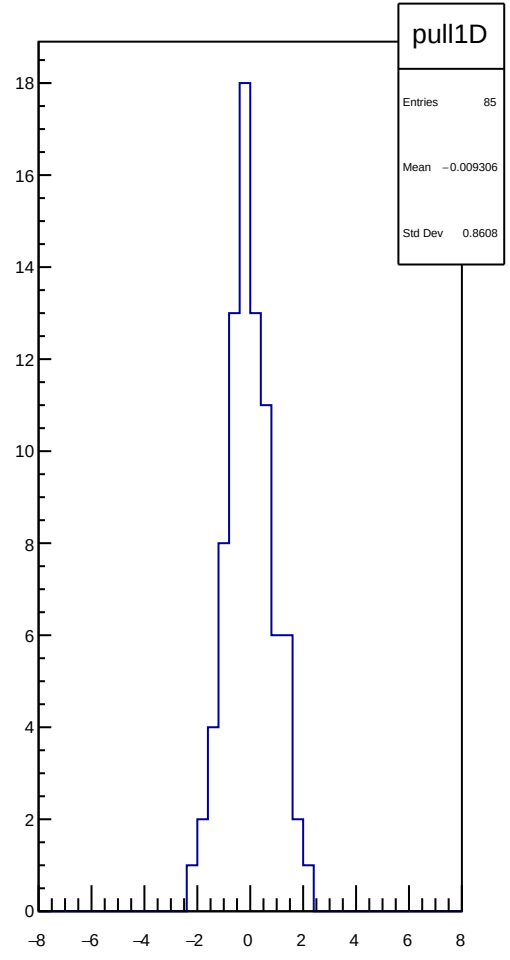

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.436e+04 / 84
p0 758.4 ± 0.5972
1400
1300
1200
1100
1000
900
800
700
600

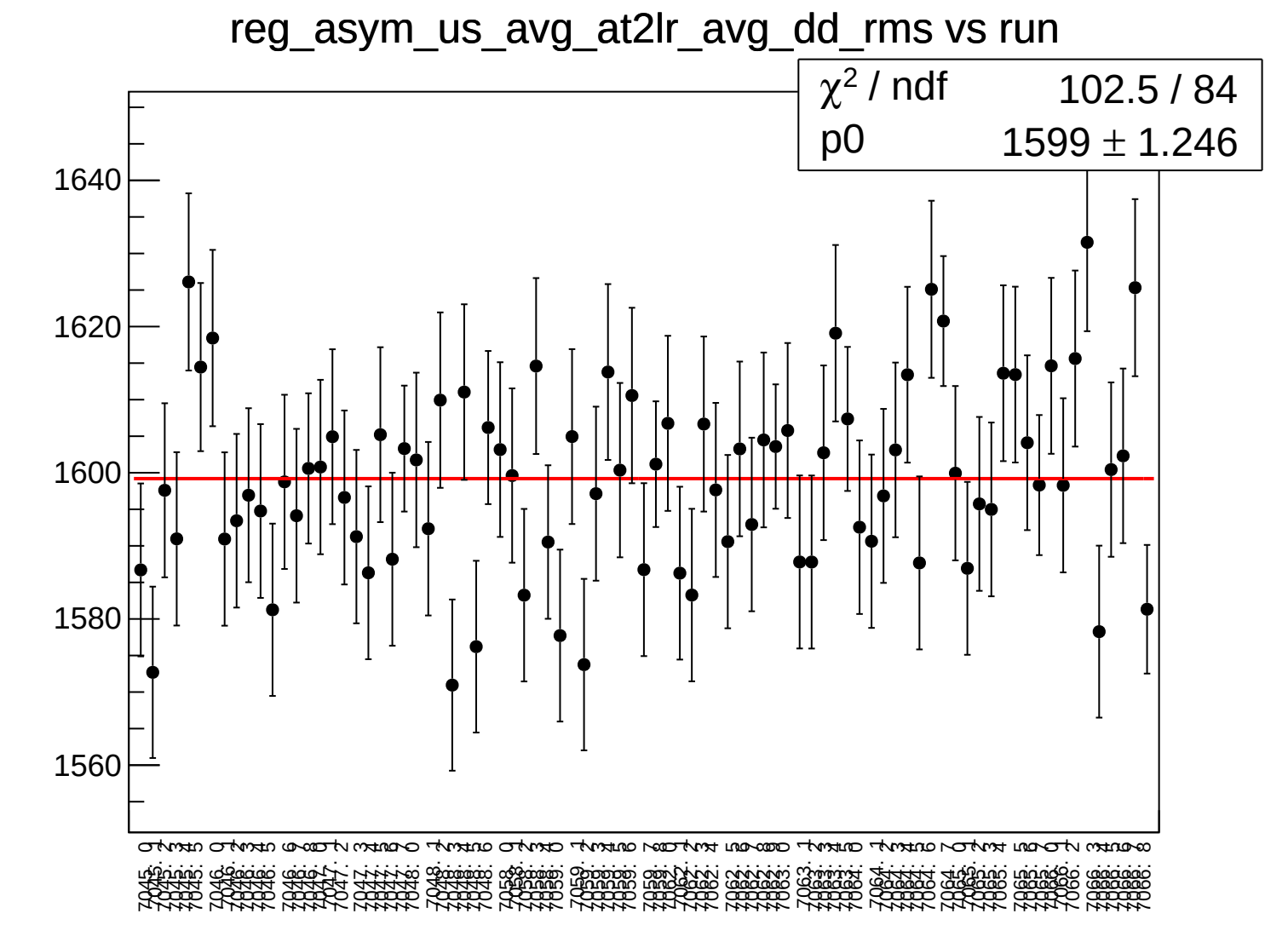

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.64 / 84
p0 3.235e−13 ± 2.058e−13
pull
Entries 85
Mean 7.525
Std Dev 0

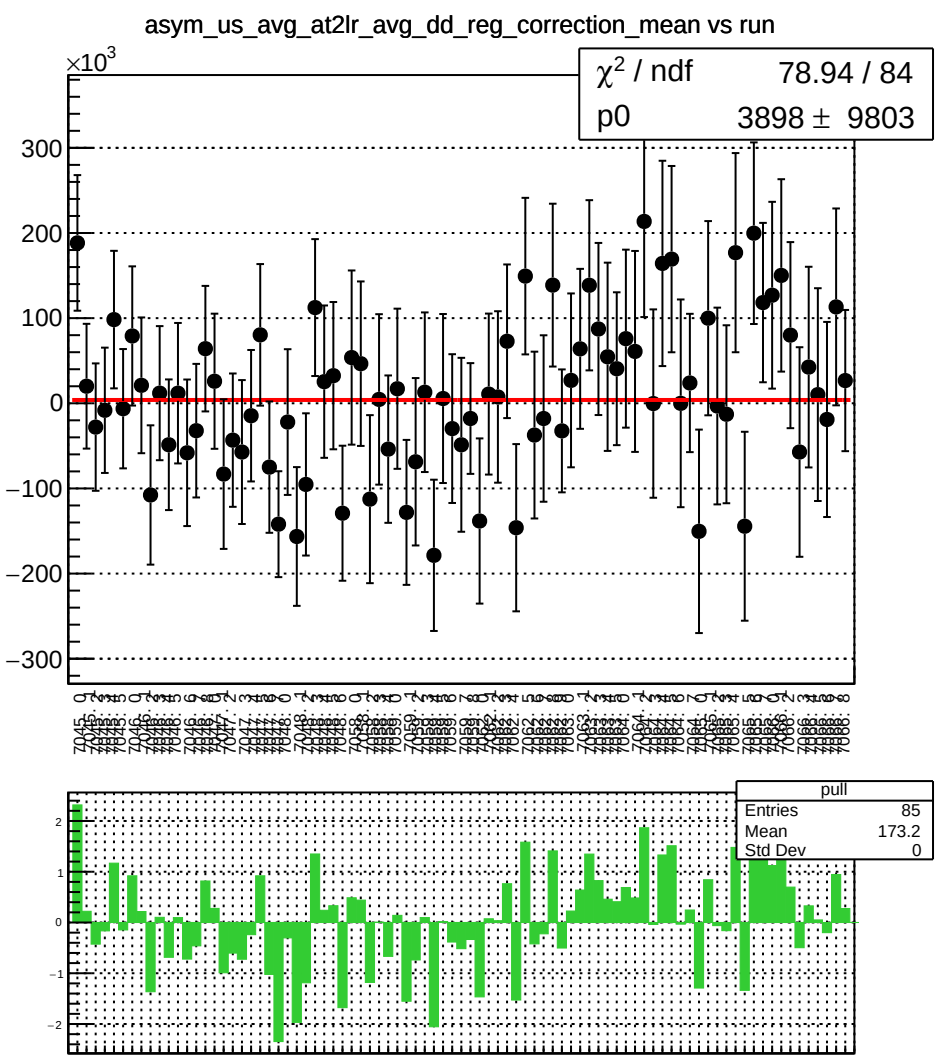

pull1D
Entries 85
Mean 0.05694
Std Dev 0.9963

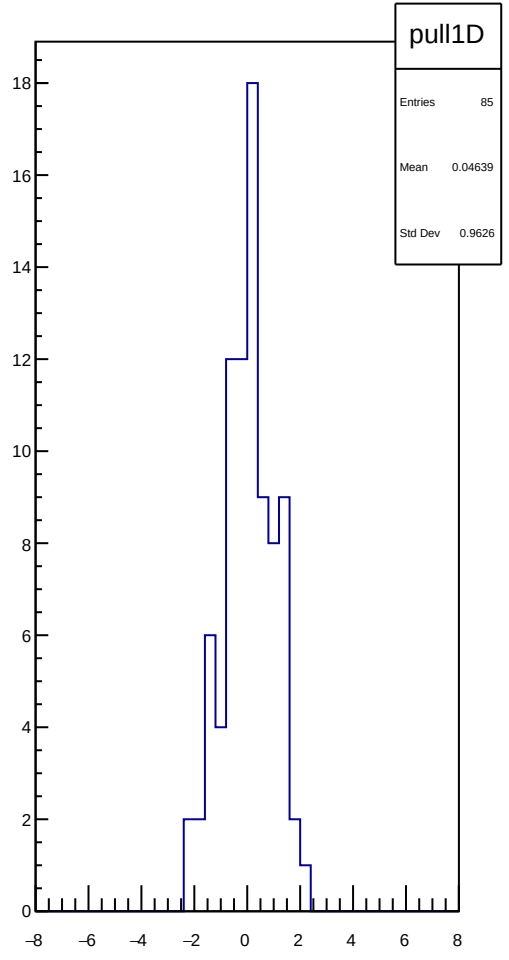

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.038e+05 / 84
p0 1.556e−10 ± 1.455e−13
1.2
1
0.8
0.6
0.4
0.2

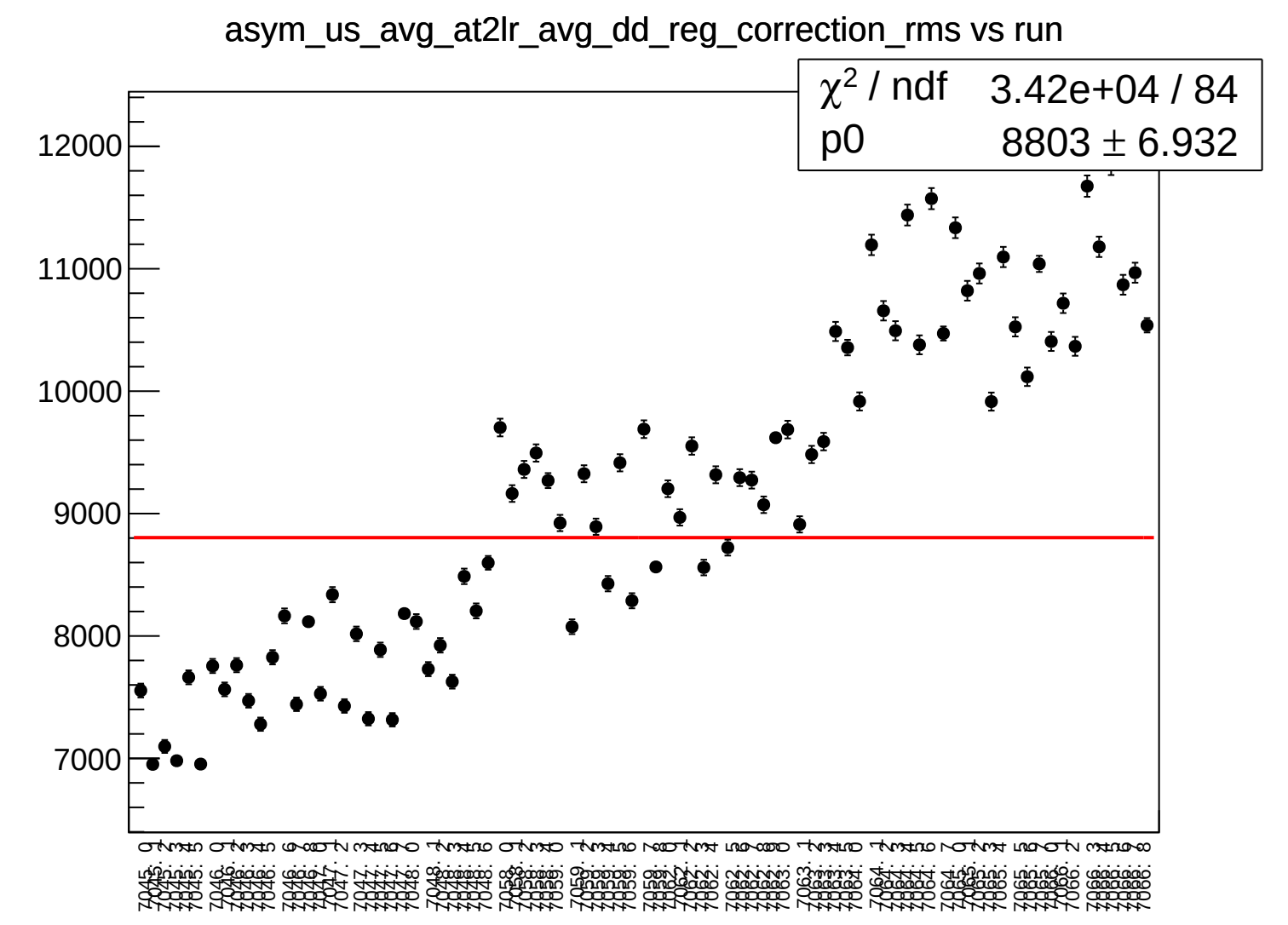

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 62.99 / 84
p0 −2176 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −238.2
Std Dev 0
2
1
0
−1
−2

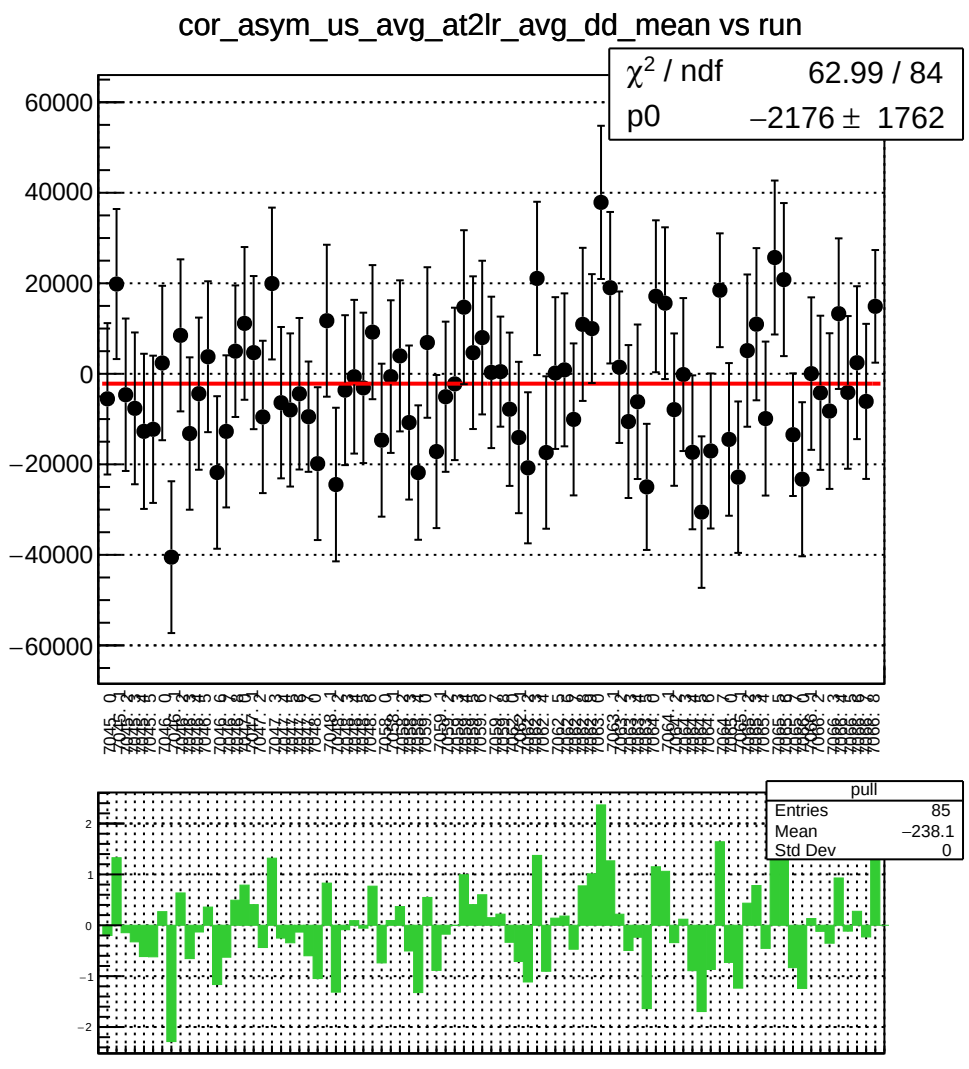

pull1D
Entries 85
Mean −0.009306
Std Dev 0.8608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

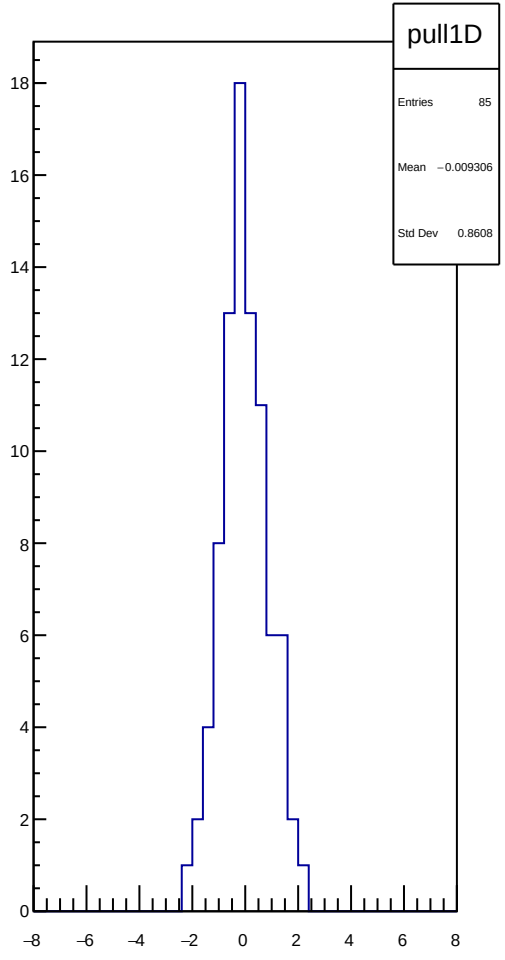

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 102.5 / 84
p0 1599 ± 1.246
1640
1620
1600
1580
1560

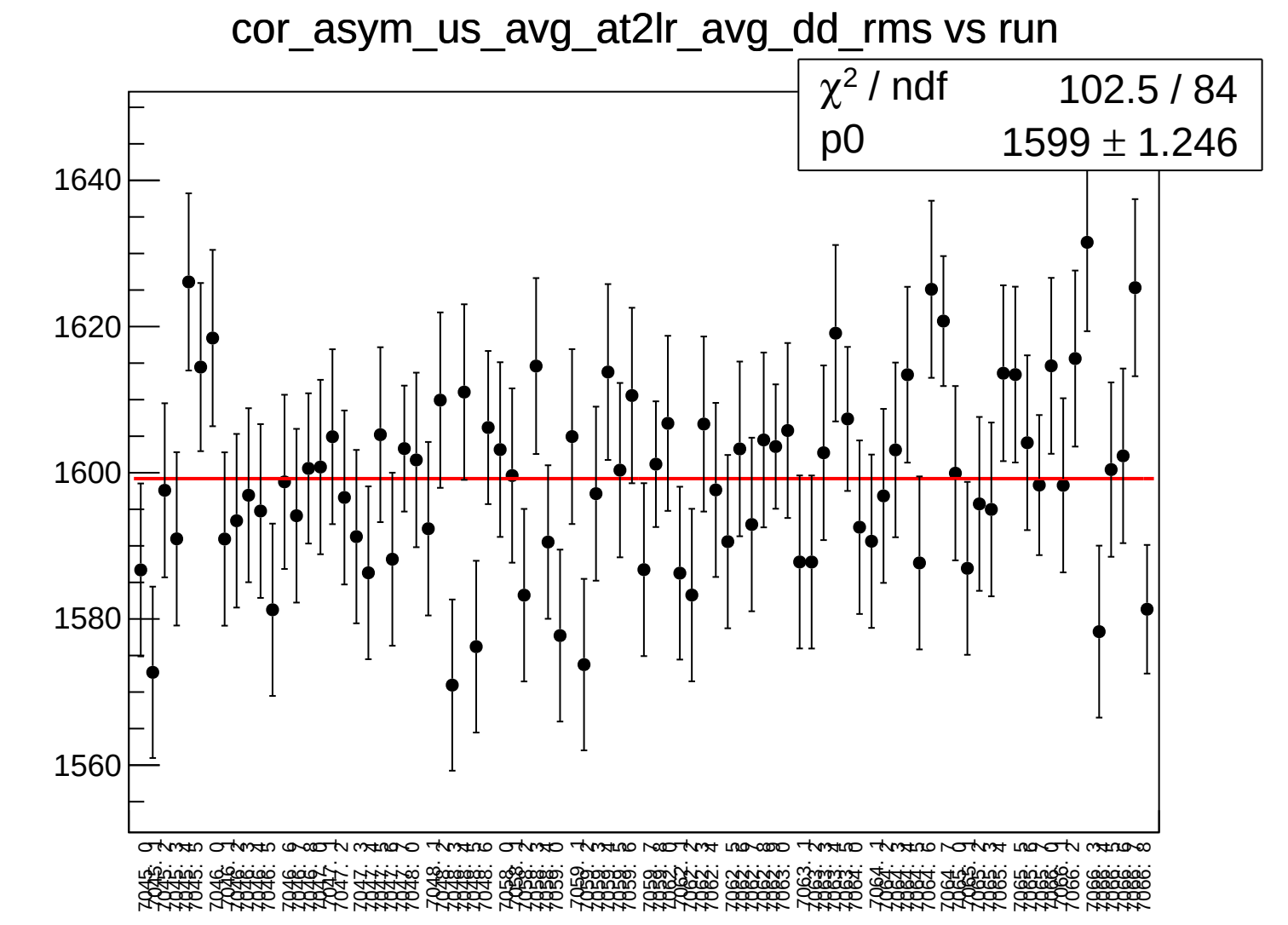

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.94 / 84
p0 3898 ± 9803
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean 173.2
Std Dev 0
2
1
0
−1
−2

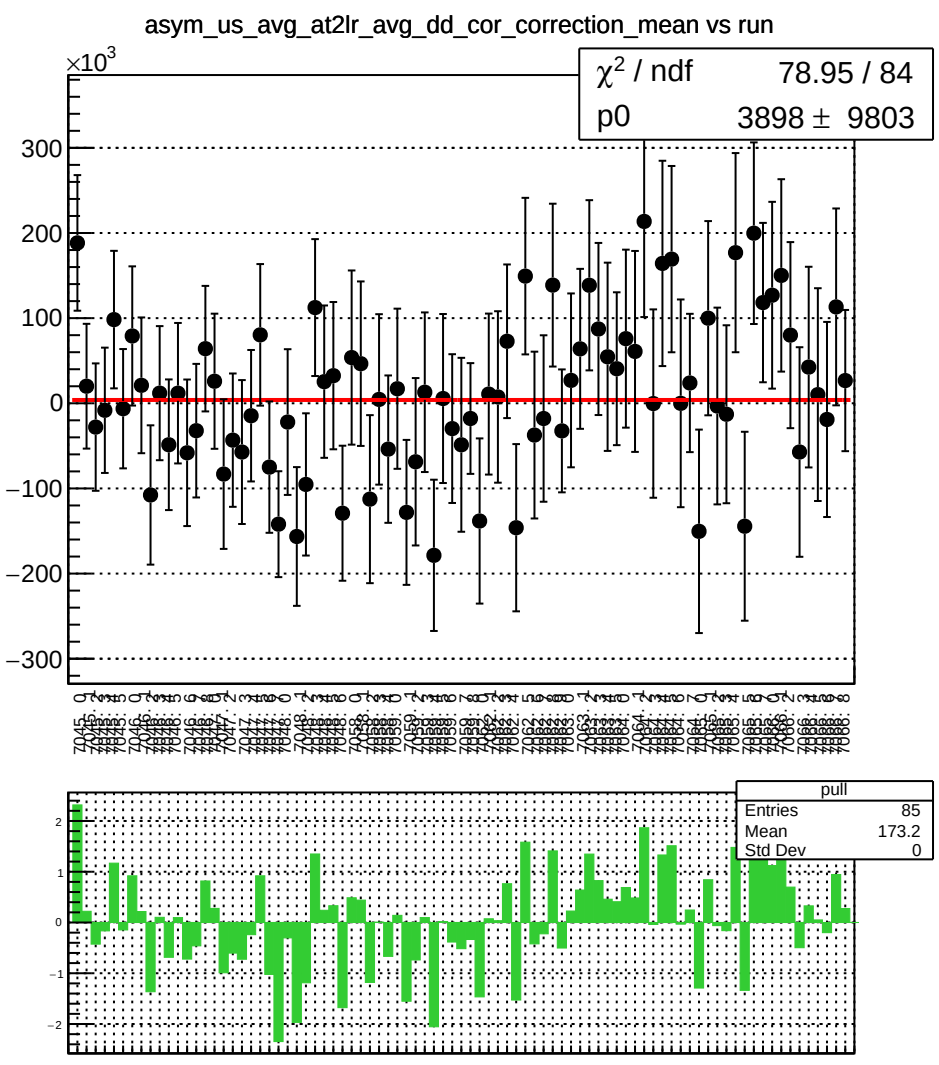

pull1D
Entries 85
Mean 0.04639
Std Dev 0.9626
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

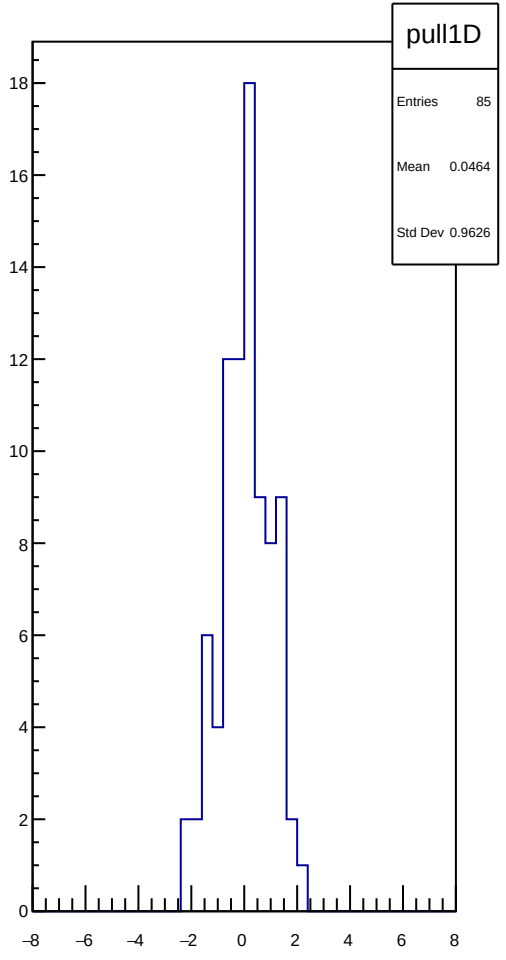

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.42e+04 / 84
p0 8803 ± 6.932
12000
11000
10000
9000
8000
7000

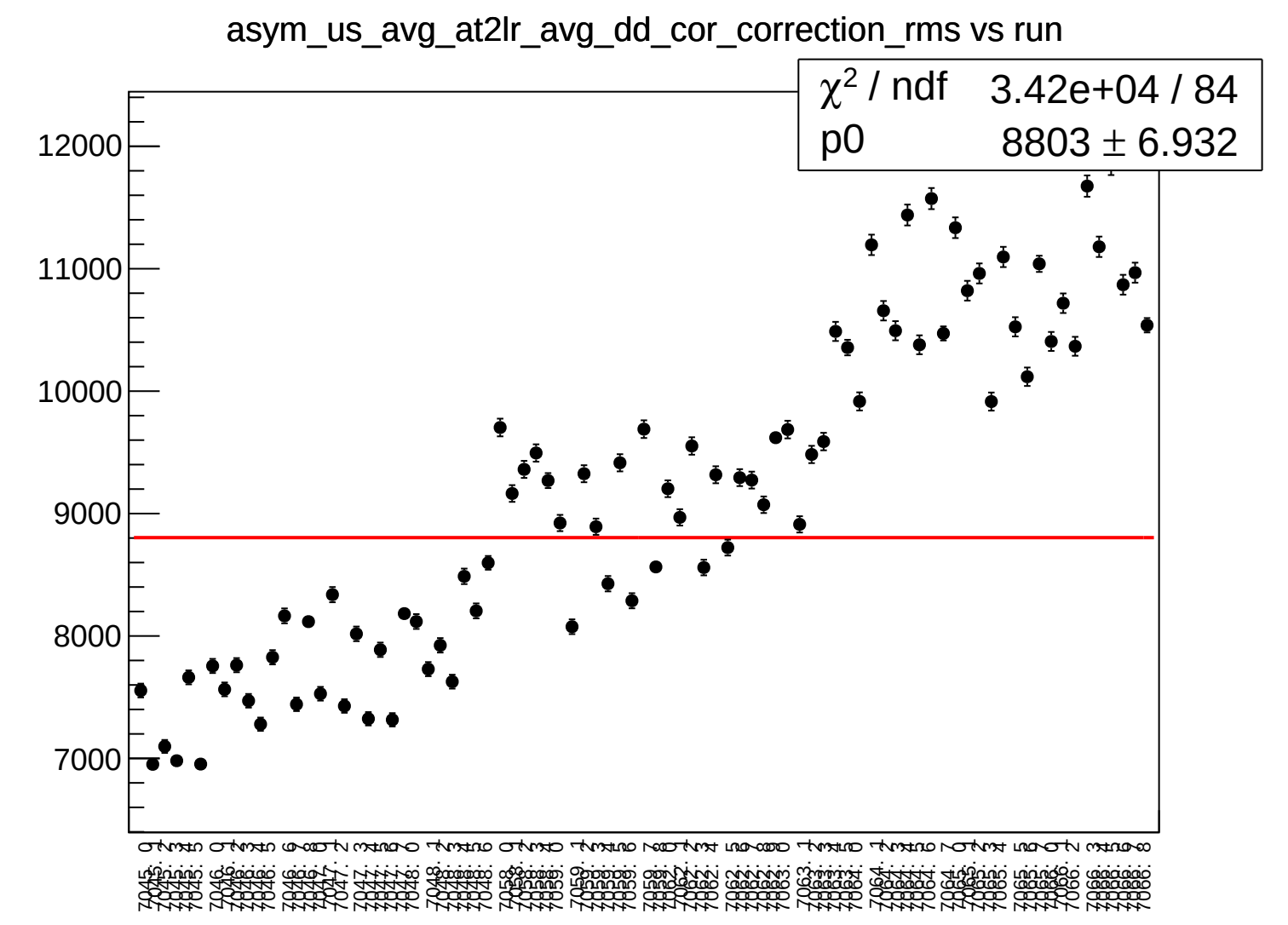

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 62.99 / 84
p0 −2176 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −238.1
Std Dev 0
2
1
0
−1
−2

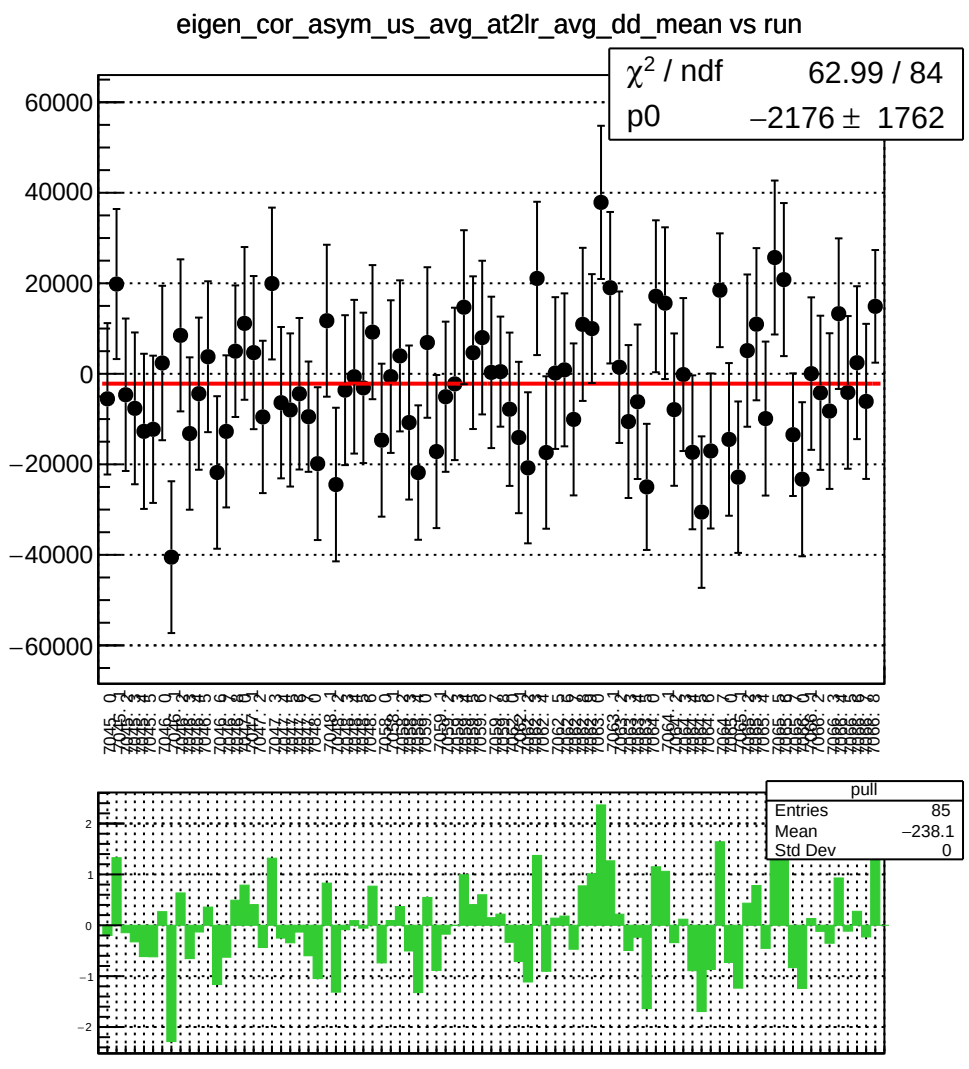

pull1D
Entries 85
Mean −0.009306
Std Dev 0.8608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

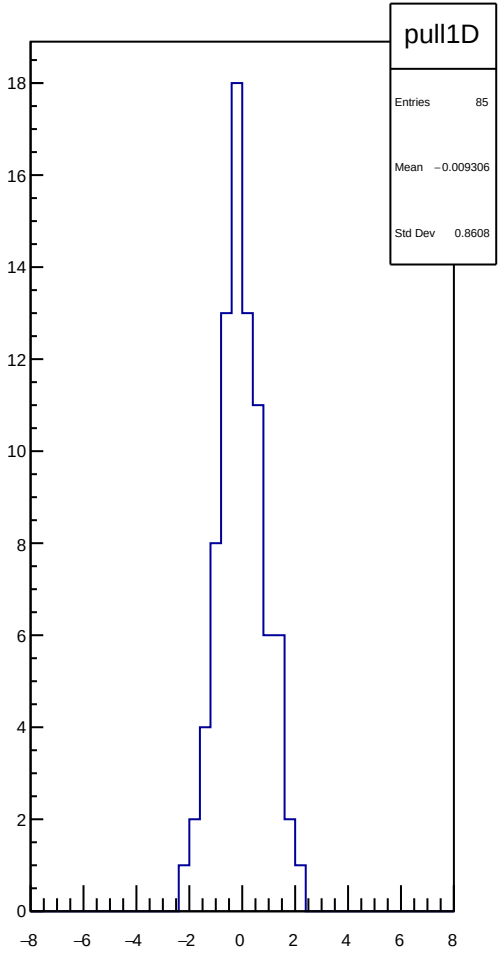

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 102.5 / 84
p0 1599 ± 1.246
1640
1620
1600
1580
1560

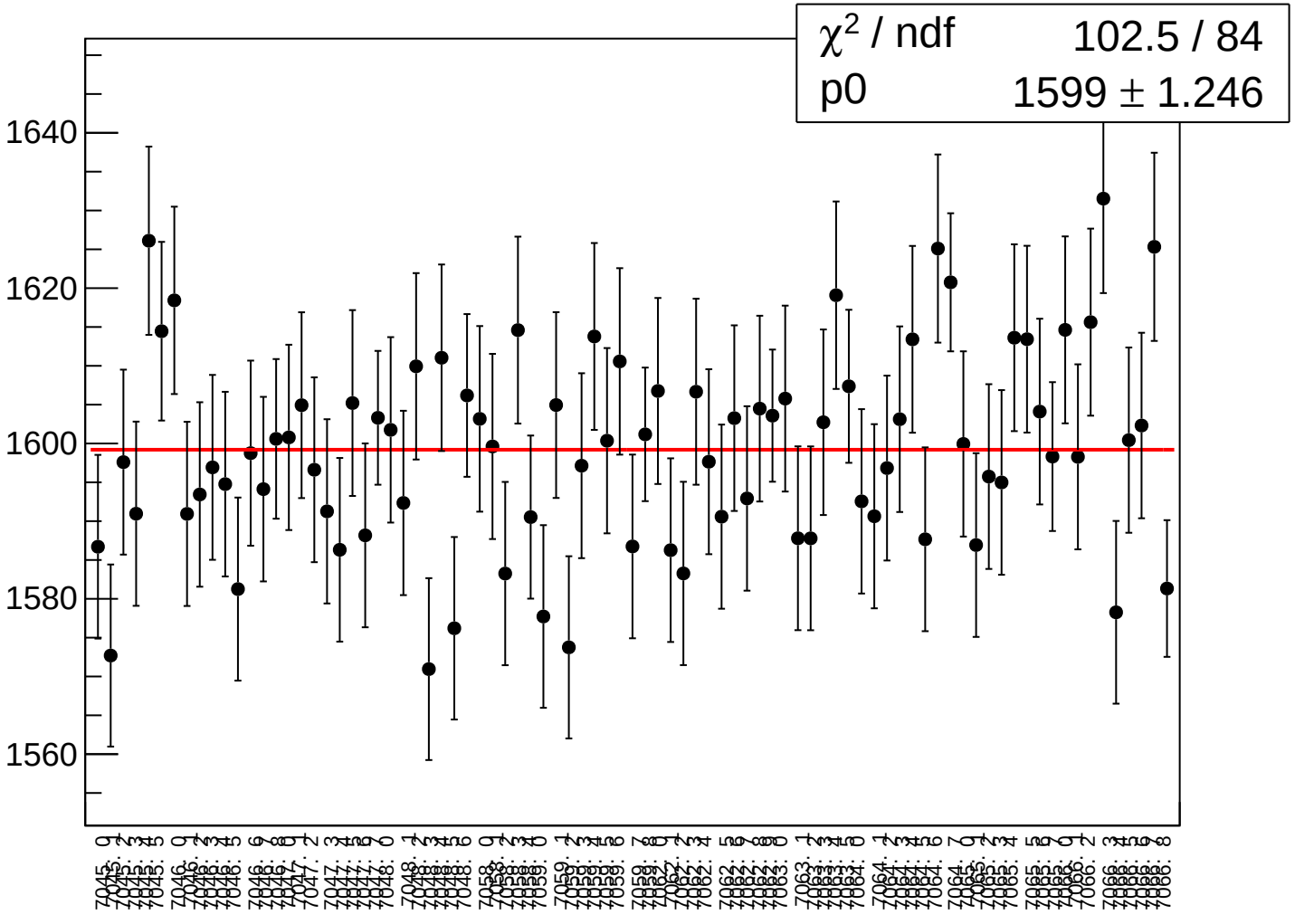

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 78.95 / 84
p0 3898 ± 9803
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean 173.2
Std Dev 0
2
1
0
−1
−2

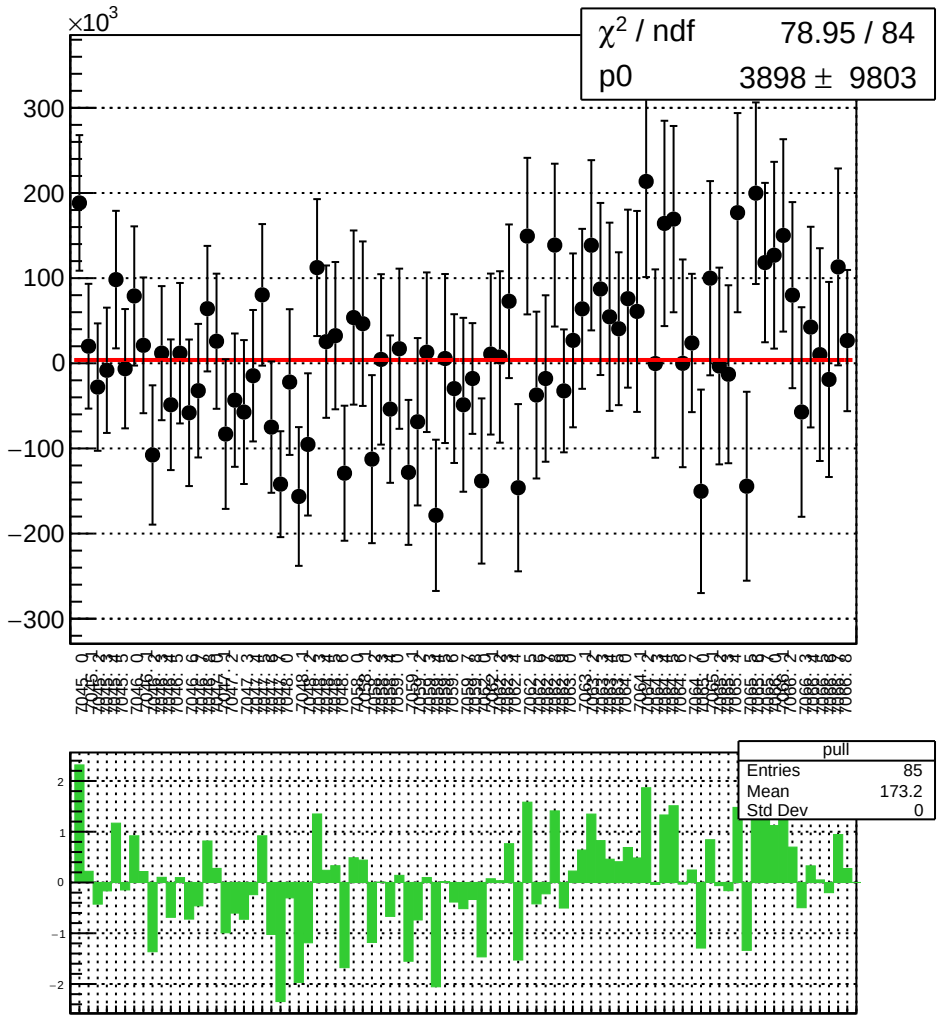

pull1D
Entries 85
Mean 0.0464
Std Dev 0.9626
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

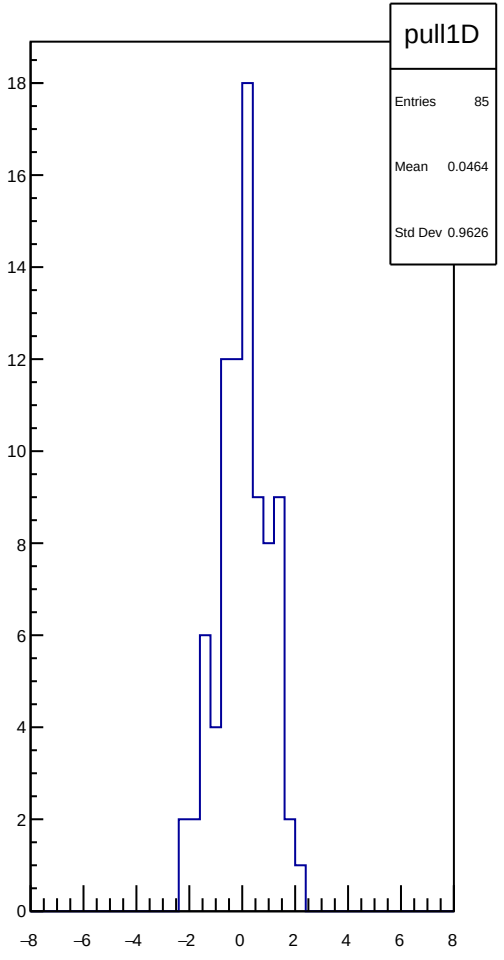

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.42e+04 / 84
p0 8803 ± 6.932
12000
11000
10000
9000
8000
7000

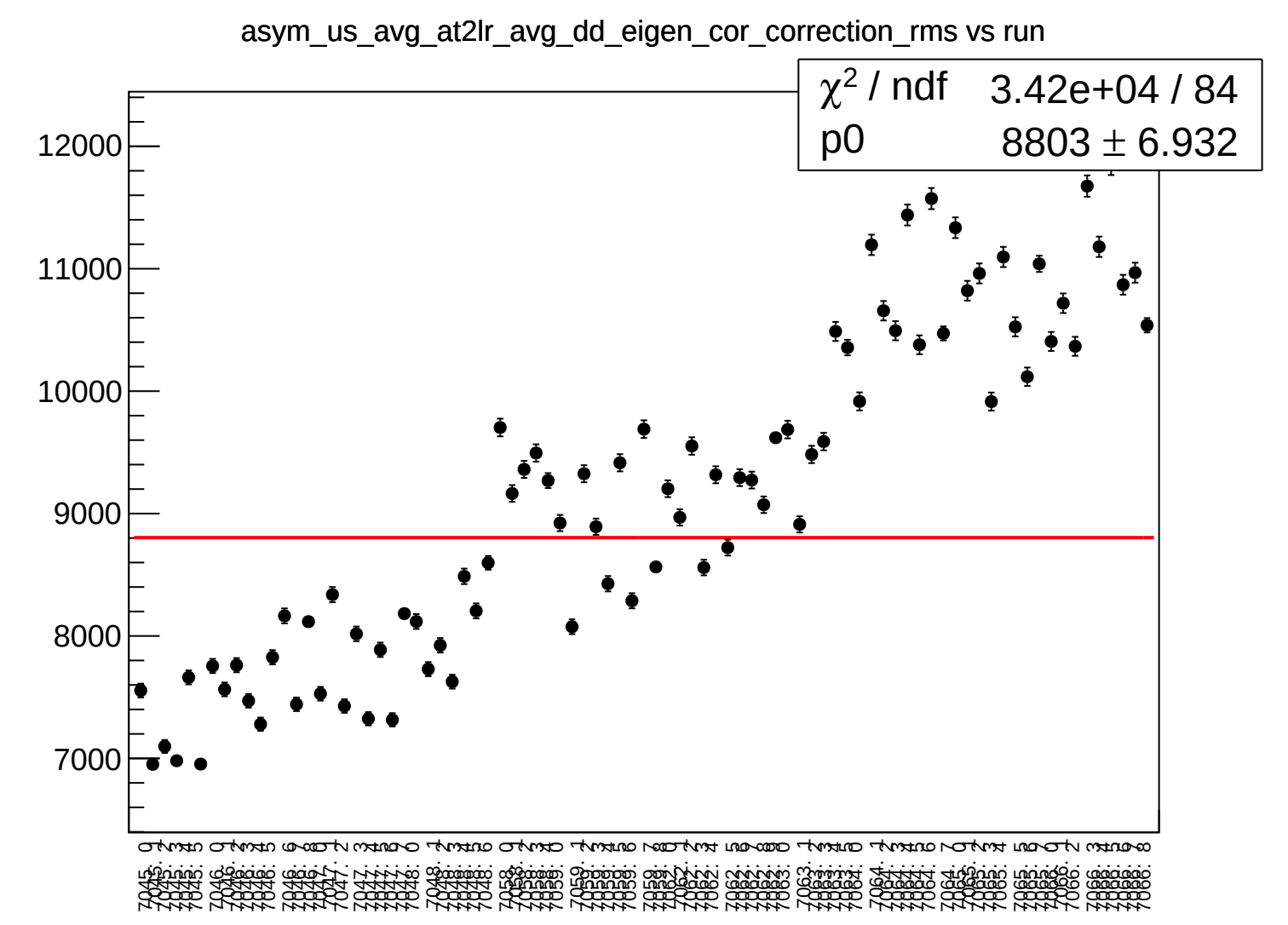

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 62.99 / 84
p0 −2176 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −238.1
Std Dev 0
2
1
0
−1
−2

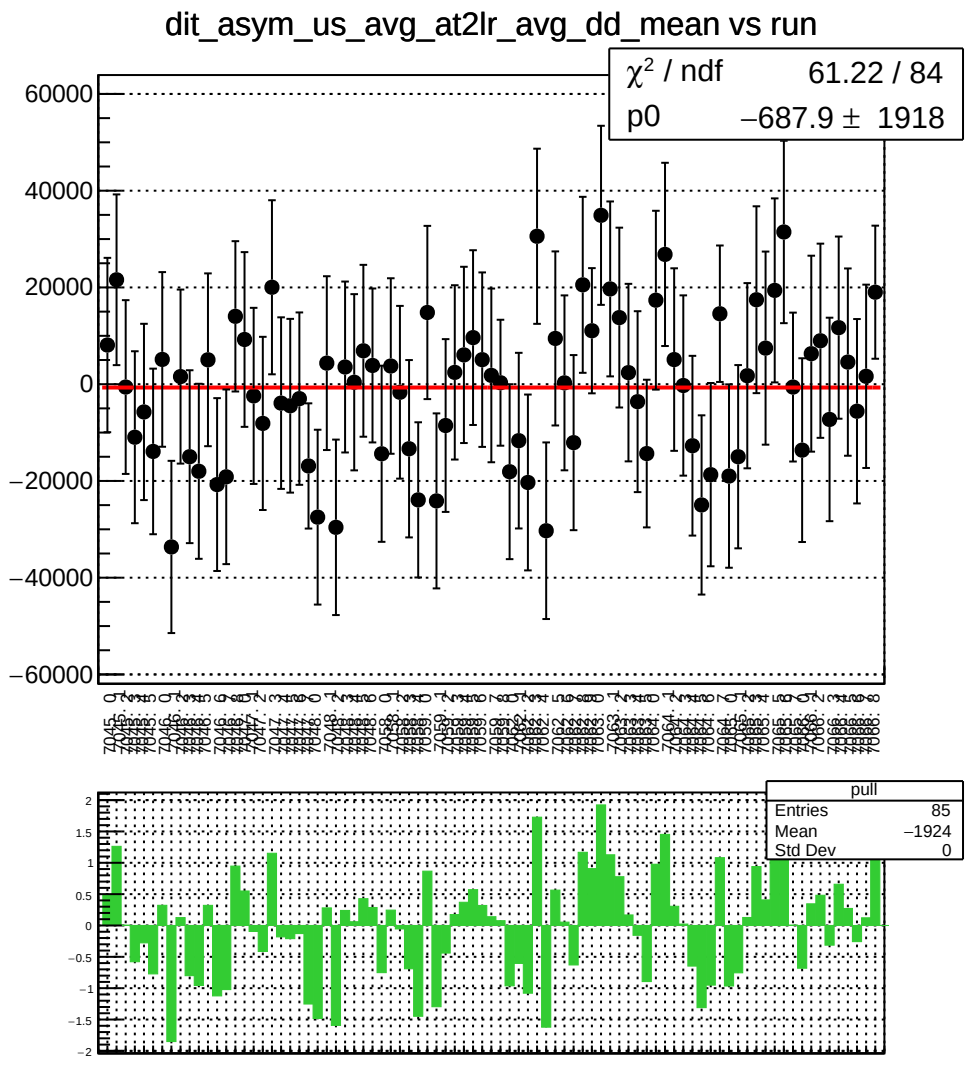

pull1D
Entries 85
Mean −0.009306
Std Dev 0.8608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

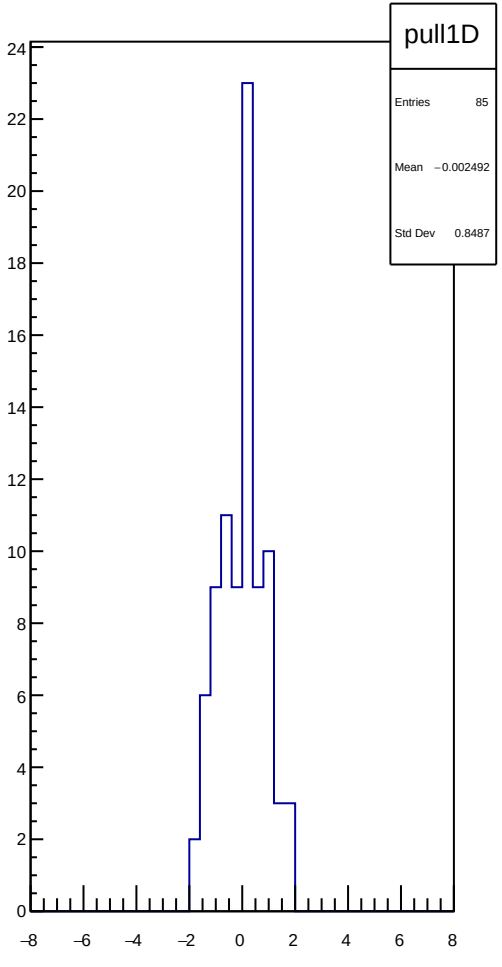

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 102.5 / 84
p0 1599 ± 1.246
1640
1620
1600
1580
1560

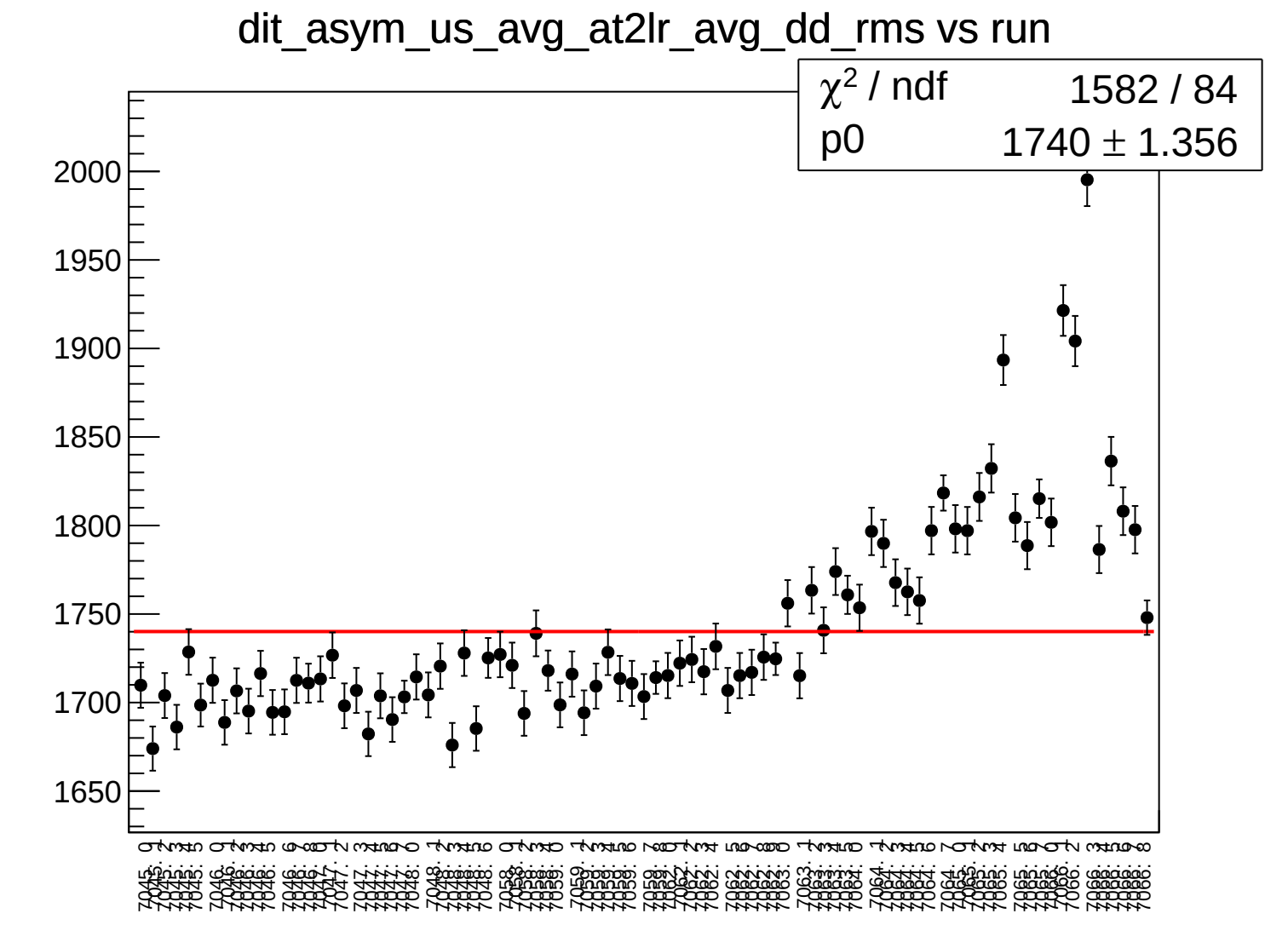

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.95 / 84
p0 3898 ± 9803
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean 173.2
Std Dev 0
2
1
0
−1
−2

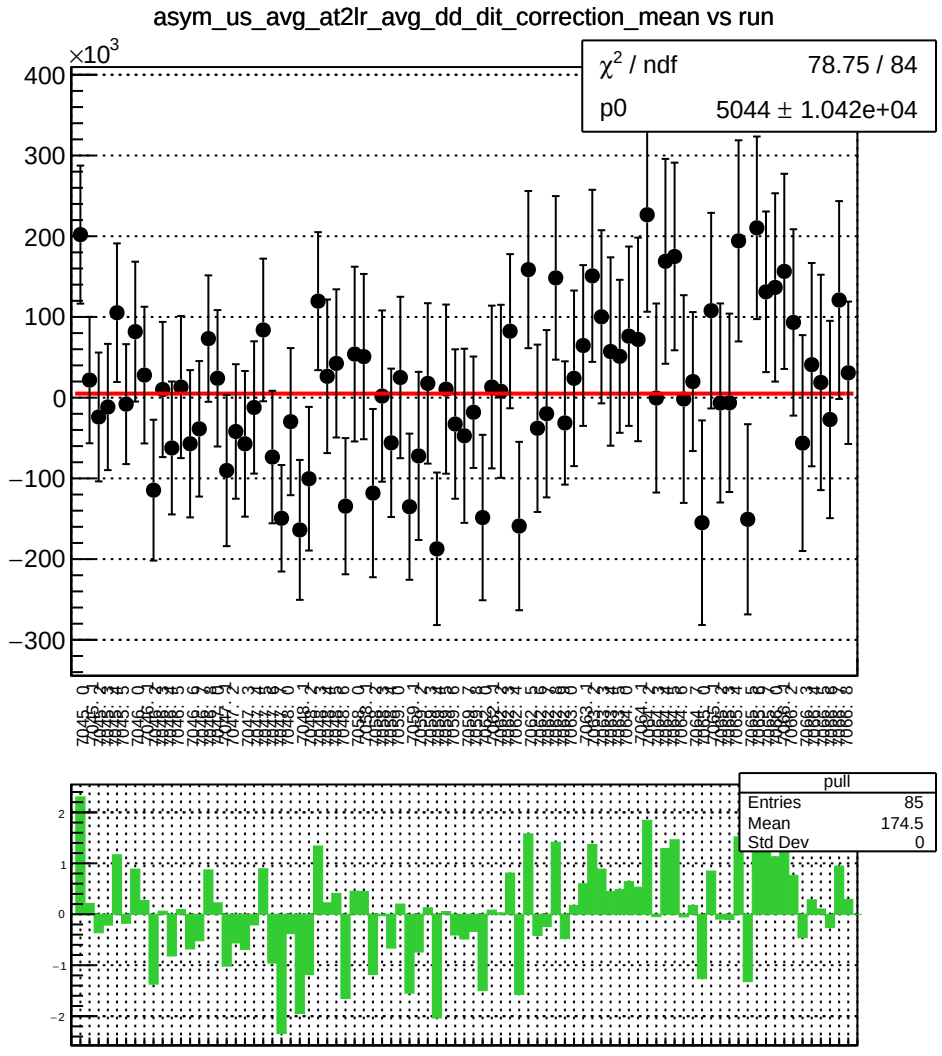

pull1D
Entries 85
Mean 0.0464
Std Dev 0.9626
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

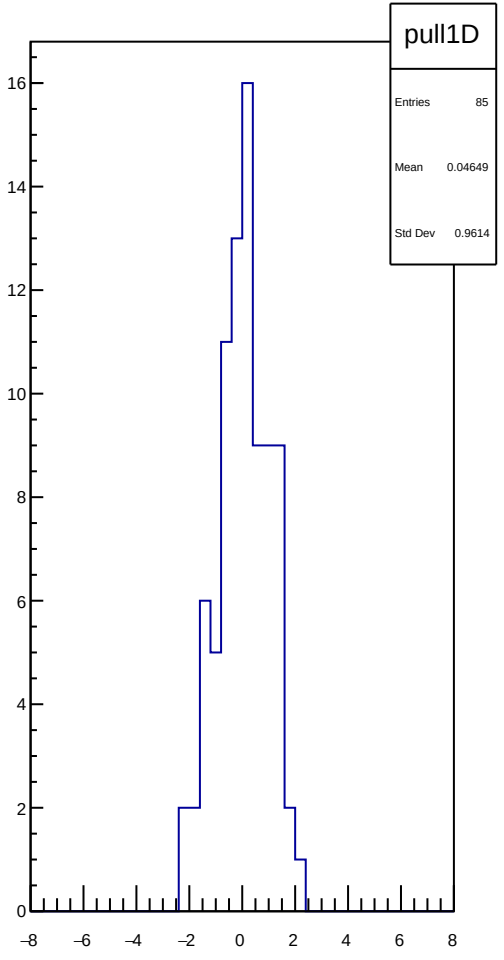

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.42e+04 / 84
p0 8803 ± 6.932
12000
11000
10000
9000
8000
7000

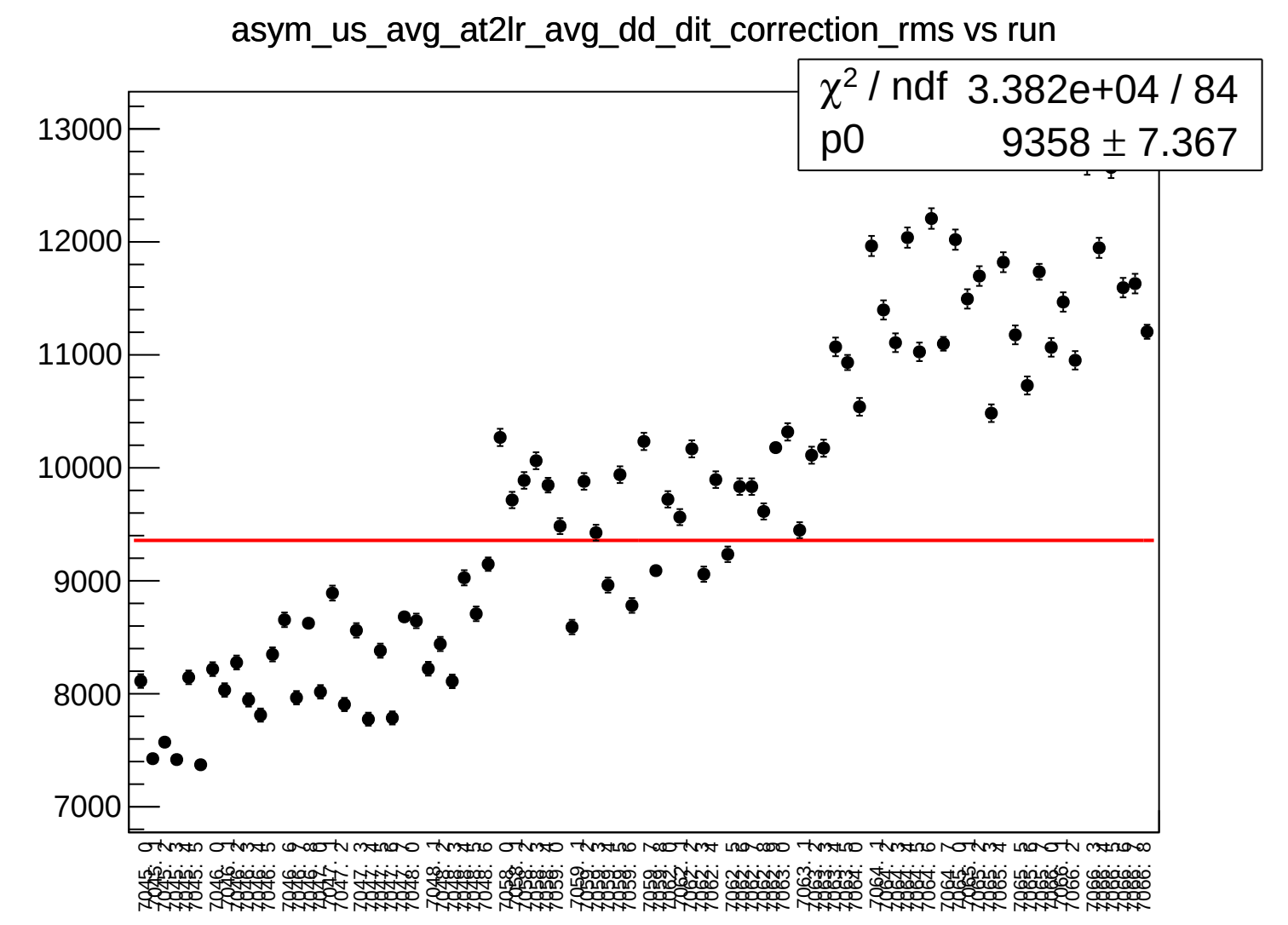

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 61.22 / 84
p0 −687.9 ± 1918
pull
Entries 85
Mean −1924
Std Dev 0

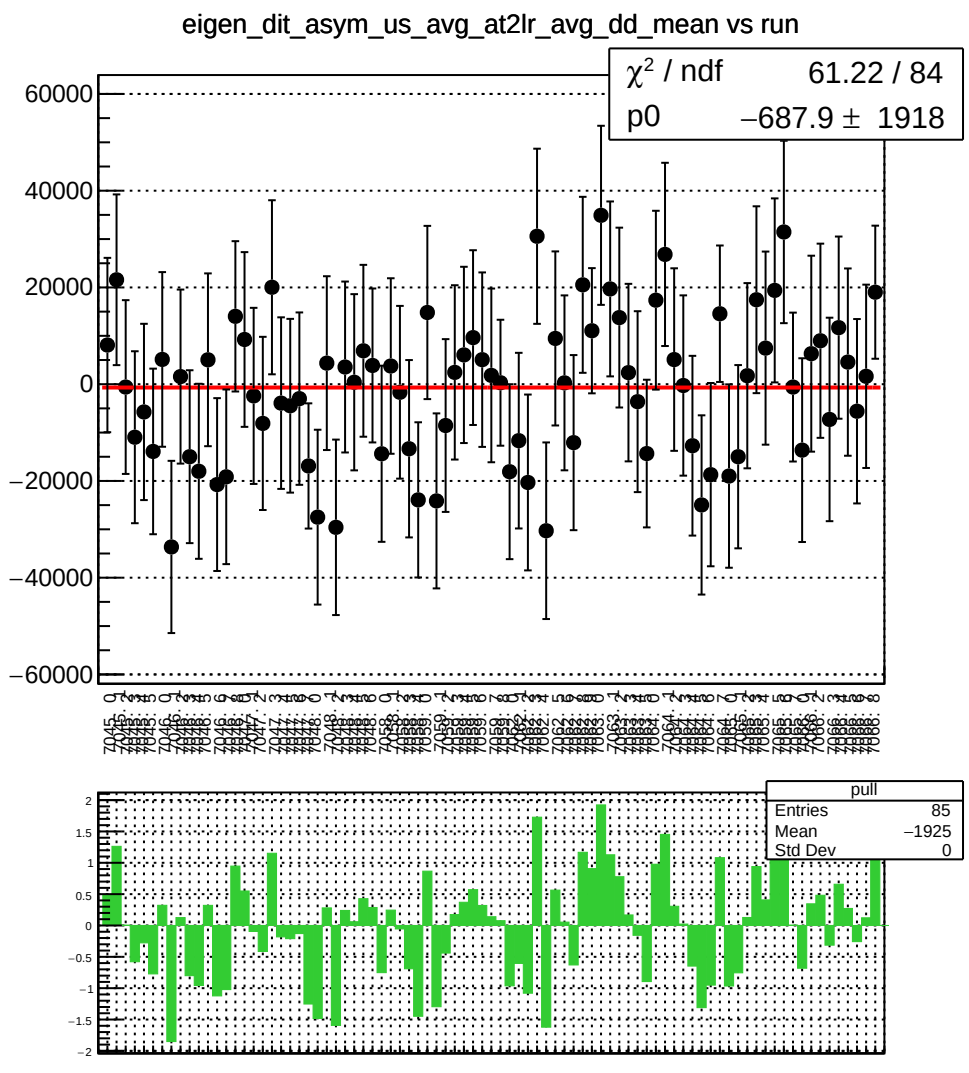

pull1D
Entries 85
Mean −0.002492
Std Dev 0.8487

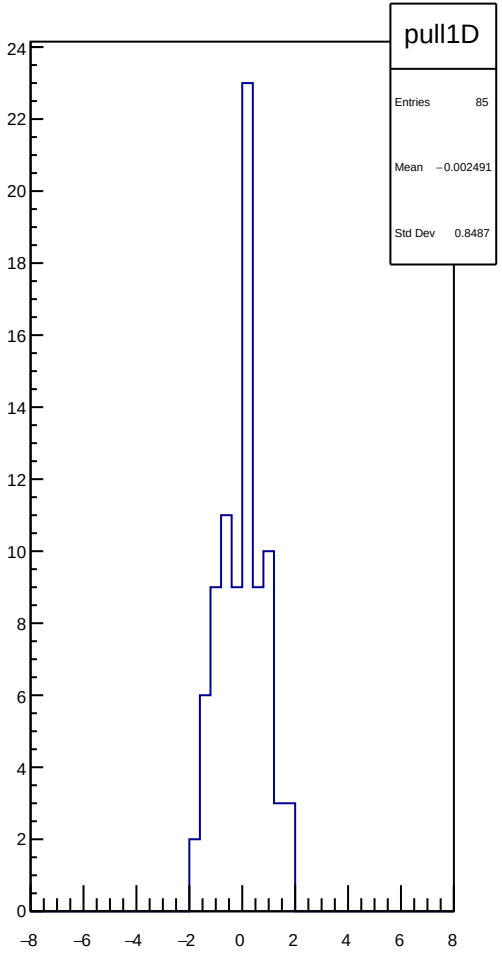

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1582 / 84
p0 1740 ± 1.356
2000
1950
1900
1850
1800
1750
1700
1650

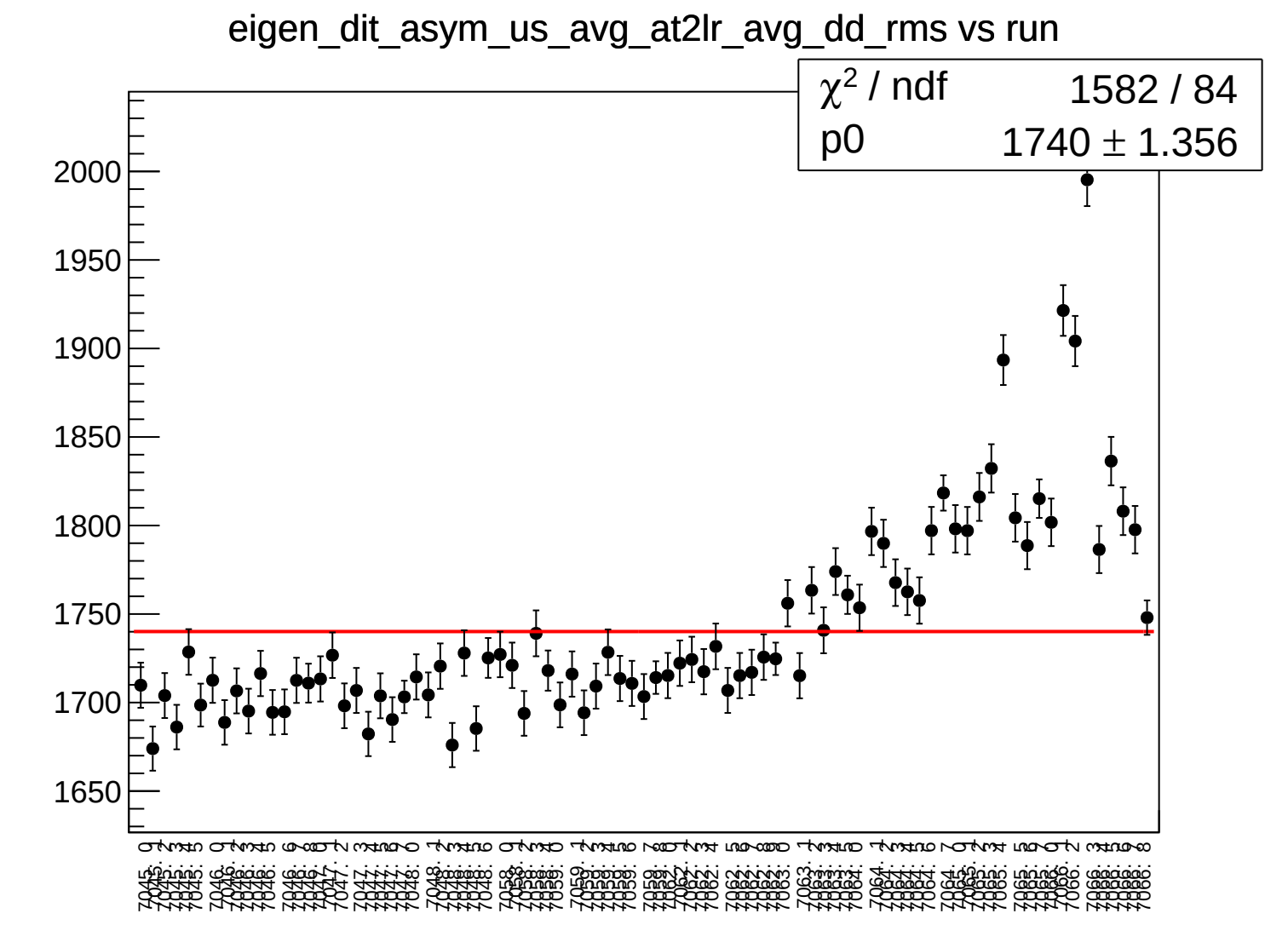

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 78.75 / 84
p0 5044 ± 1.042e+04
×10³
pull
Entries 85
Mean 174.5
Std Dev 0

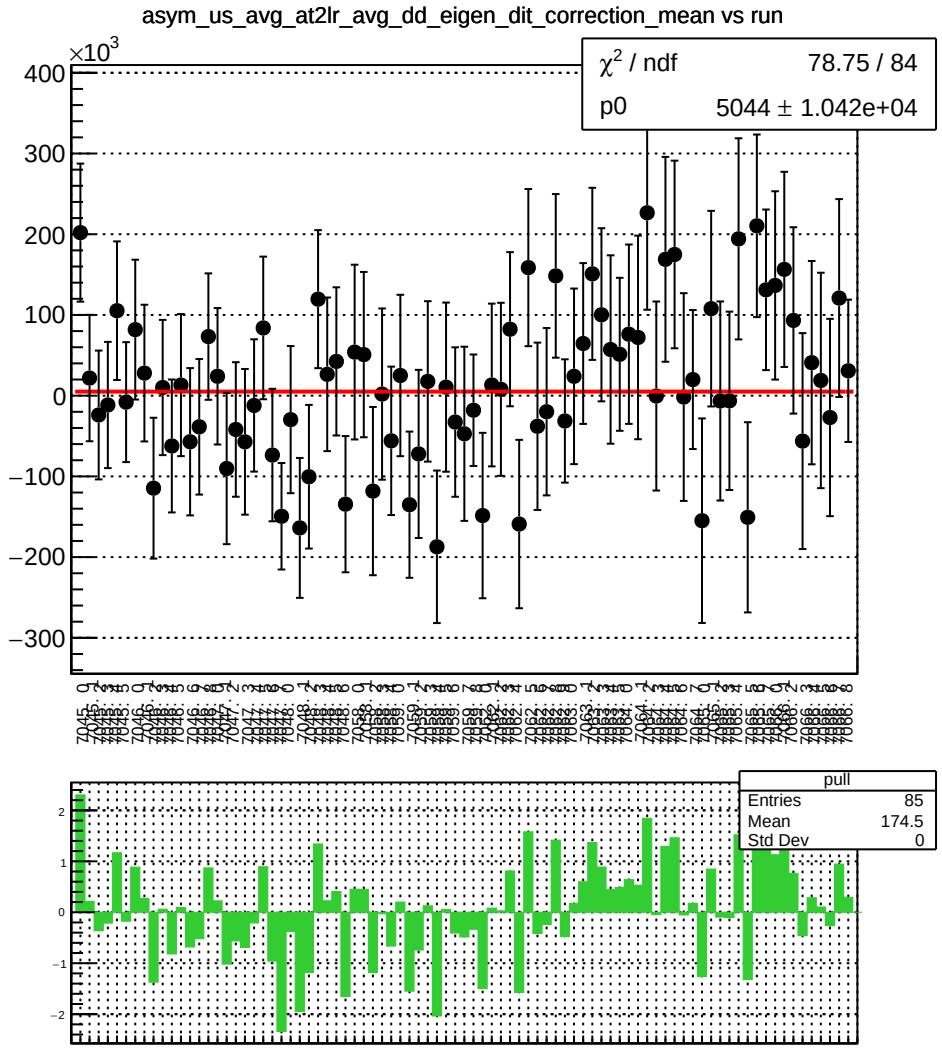

pull1D
Entries 85
Mean 0.04649
Std Dev 0.9614

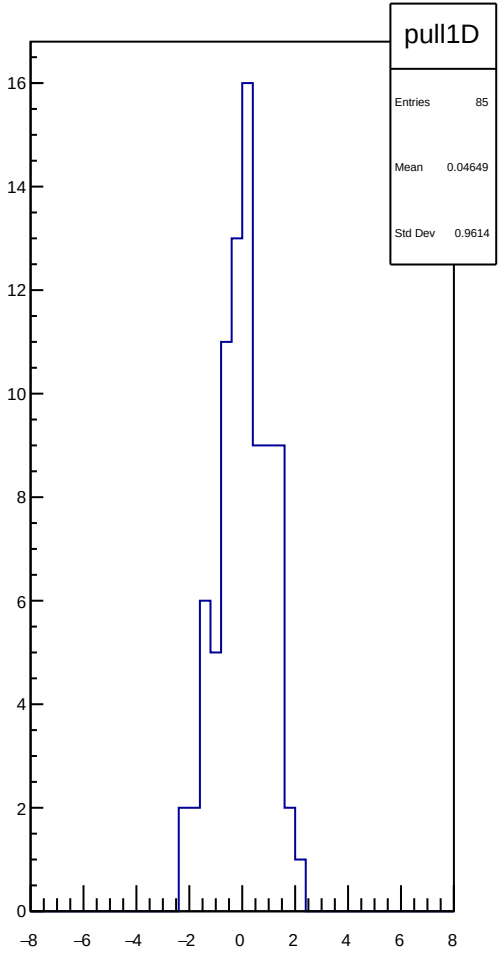

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.382e+04 / 84
p0 9358 ± 7.367
13000
12000
11000
10000
9000
8000
7000

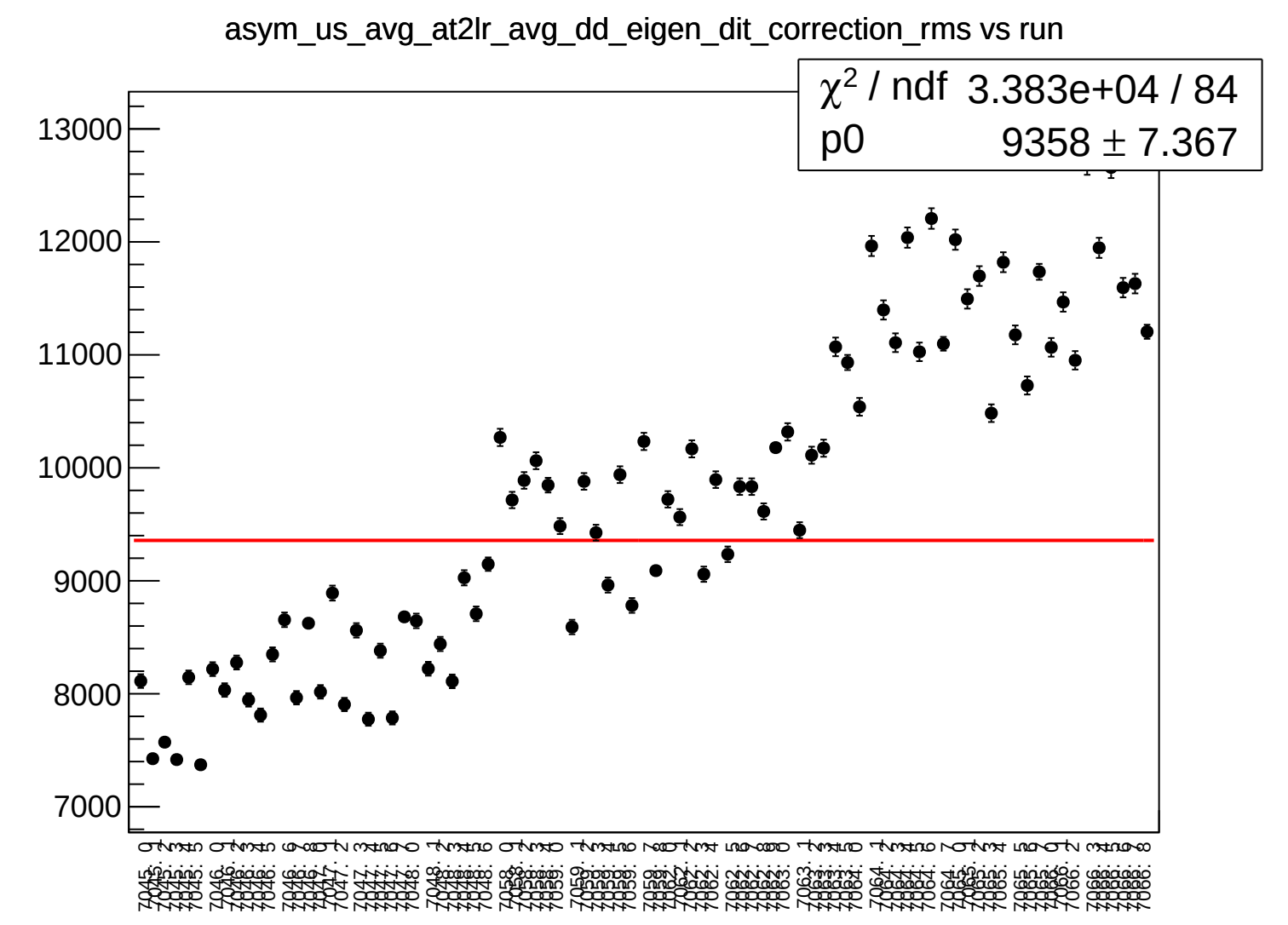

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 61.22 / 84
p0 −687.9 ± 1918
pull
Entries 85
Mean −1925
Std Dev 0

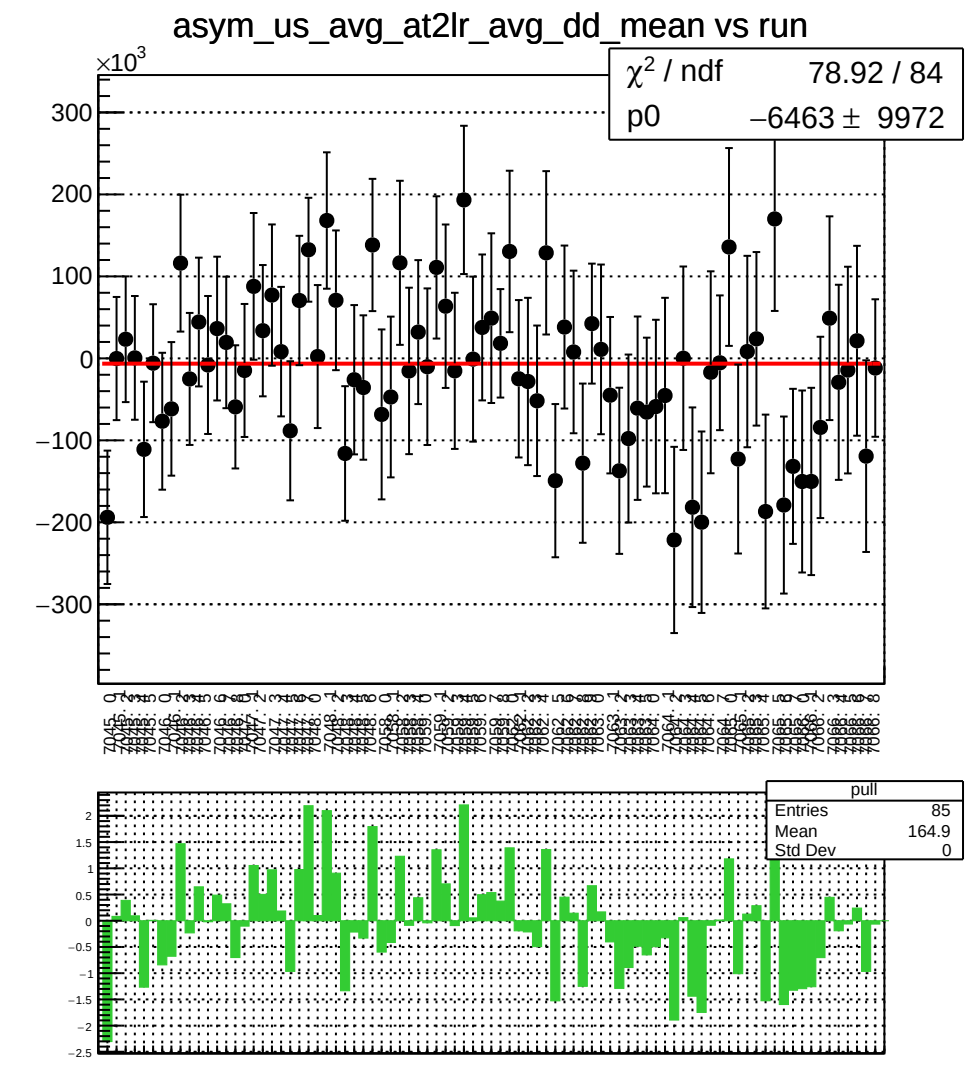

pull1D
Entries 85
Mean −0.002491
Std Dev 0.8487

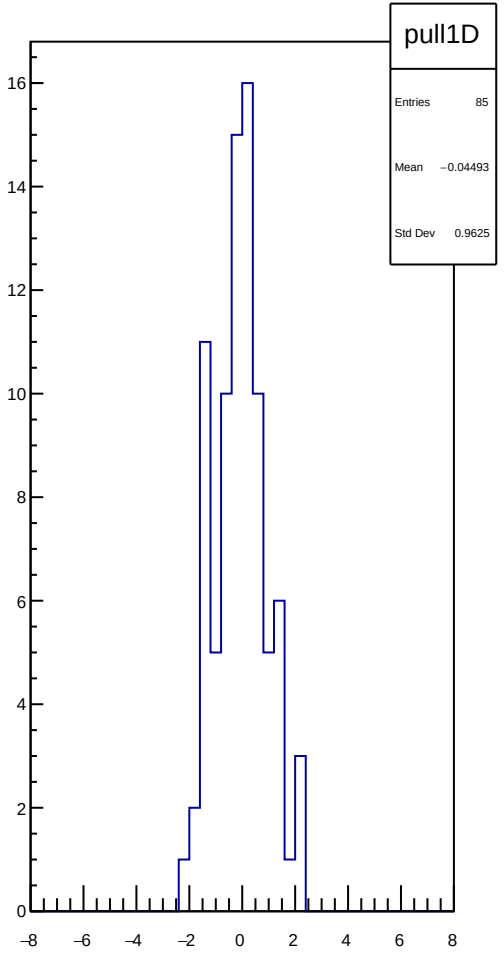

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1582 / 84
p0 1740 ± 1.356
2000
1950
1900
1850
1800
1750
1700
1650

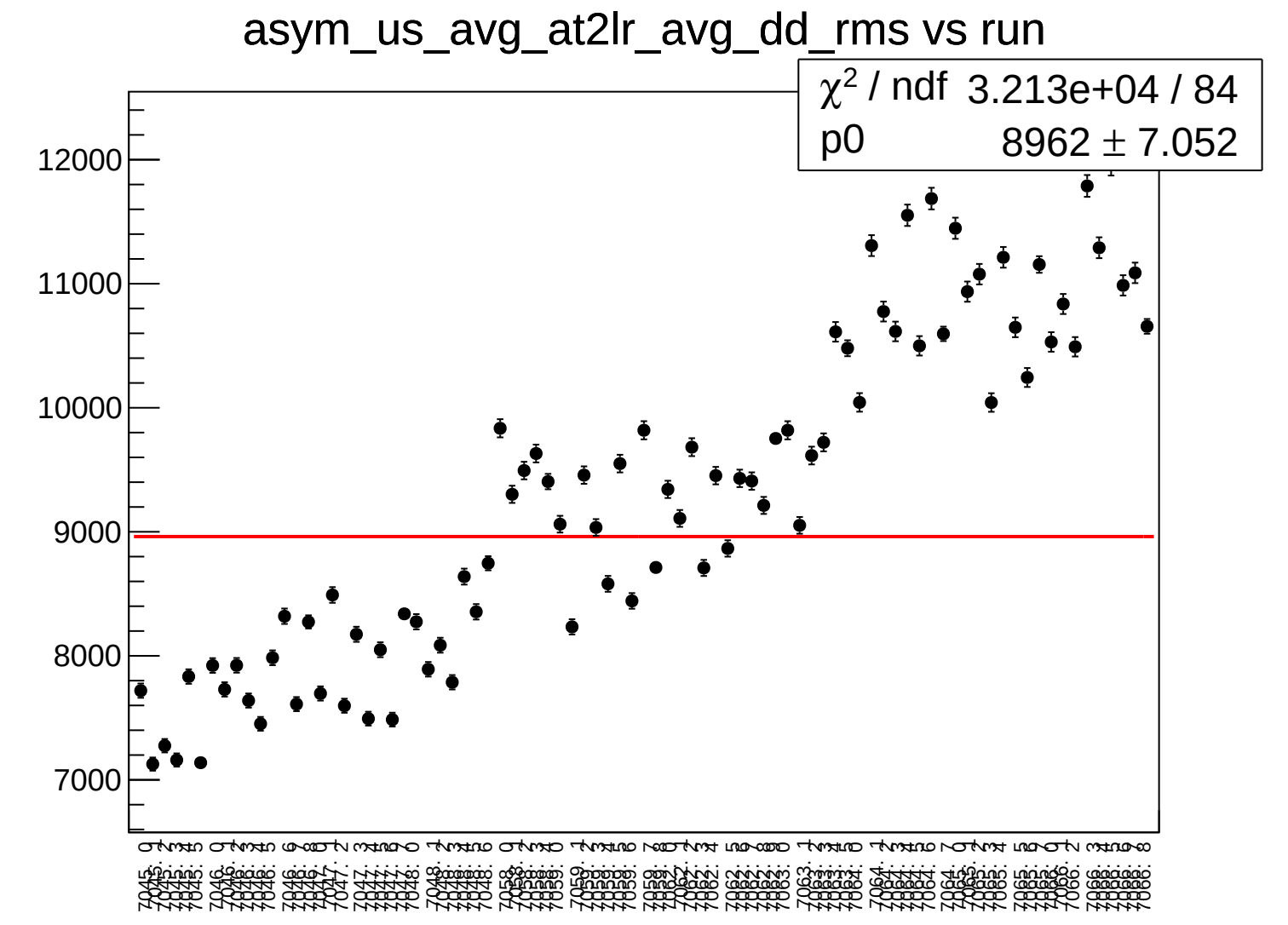

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.75 / 84
p0 5044 ± 1.042e+04
pull
Entries 85
Mean 174.5
Std Dev 0

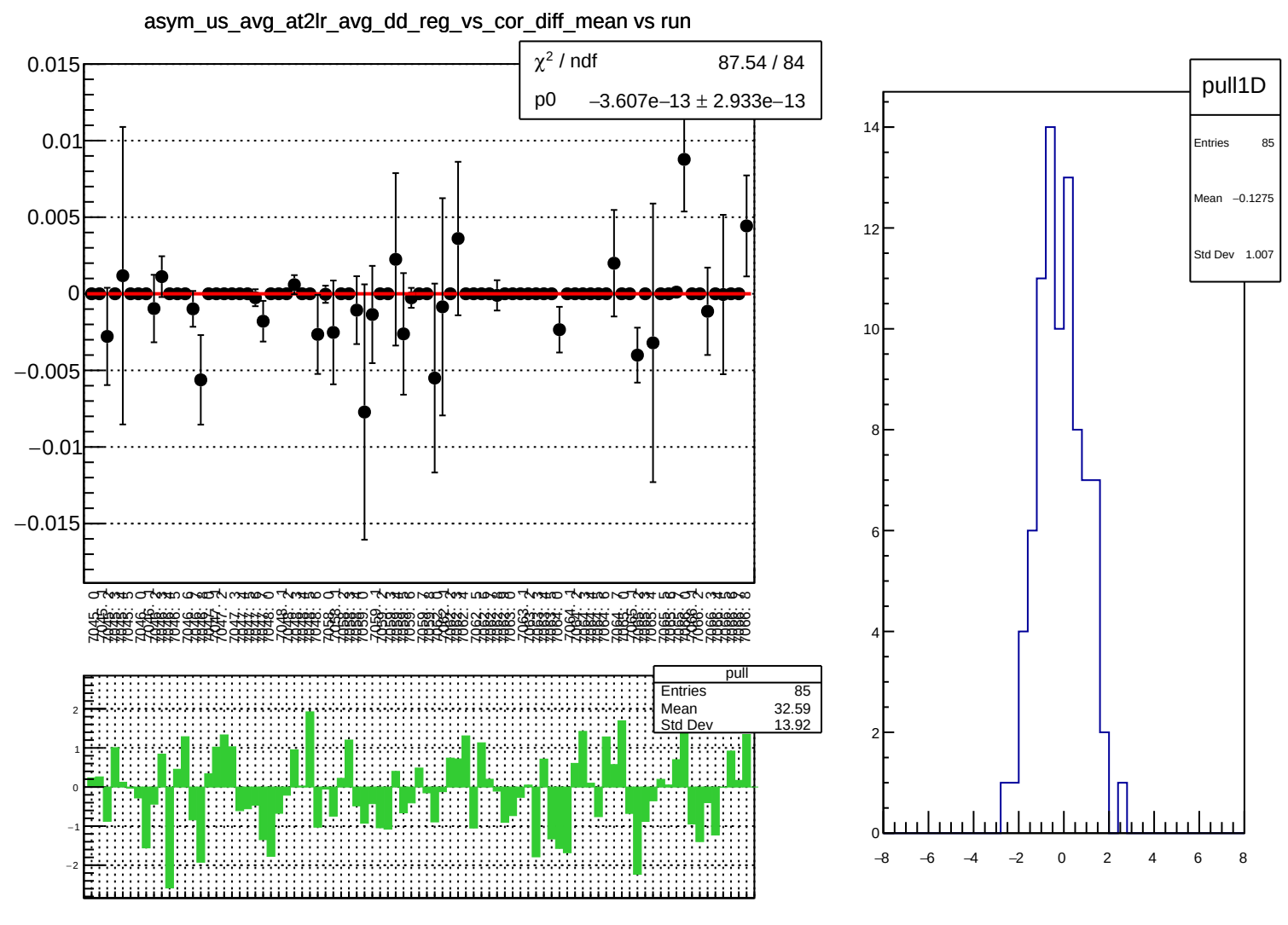

pull1D
Entries 85
Mean 0.04649
Std Dev 0.9614

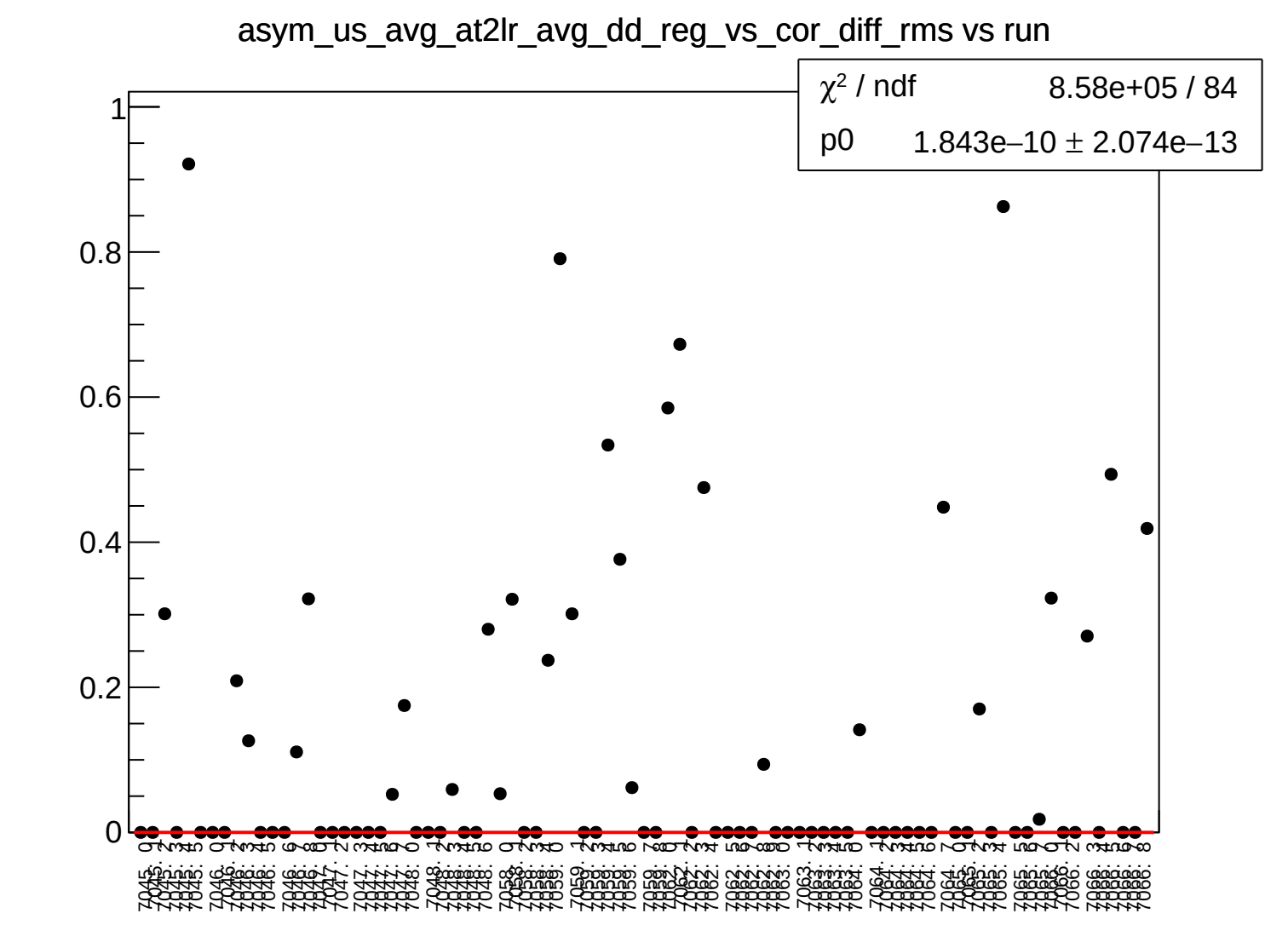

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.383e+04 / 84
p0 9358 ± 7.367
13000
12000
11000
10000
9000
8000
7000

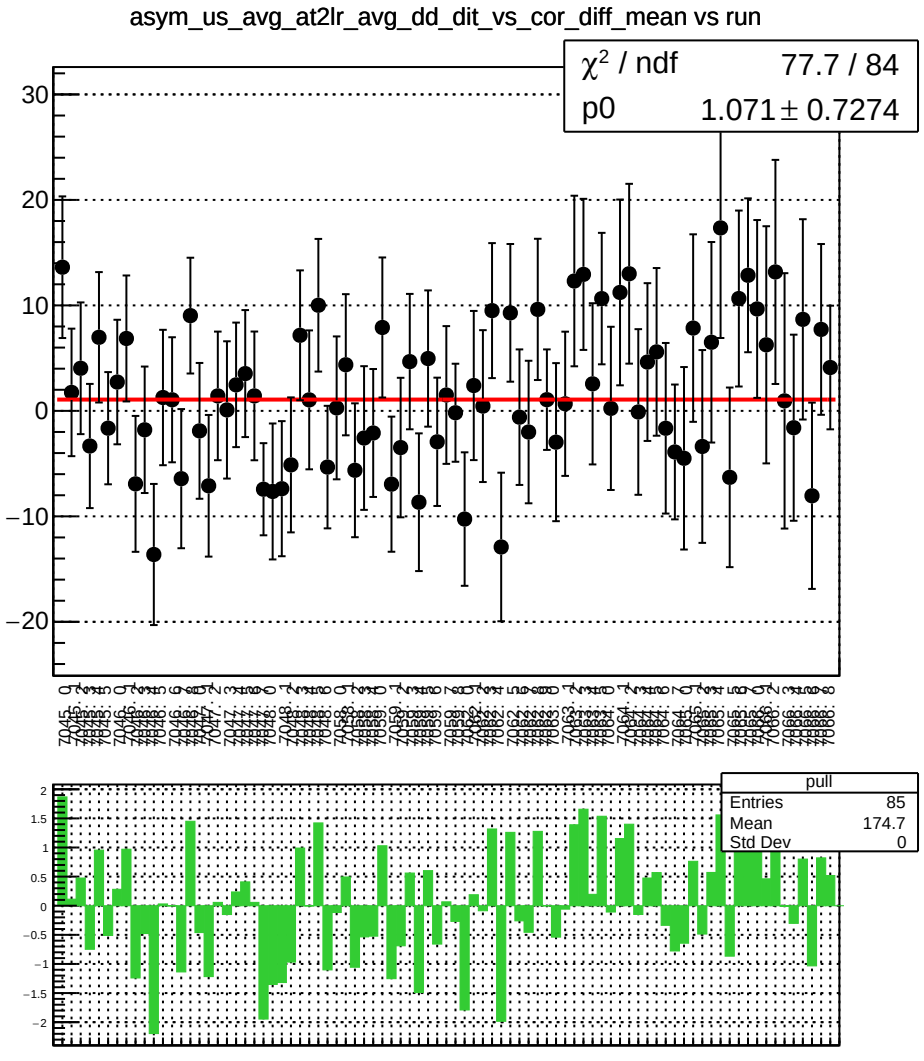

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 78.92 / 84
p0 −6463 ± 9972
pull
Entries 85
Mean 164.9
Std Dev 0

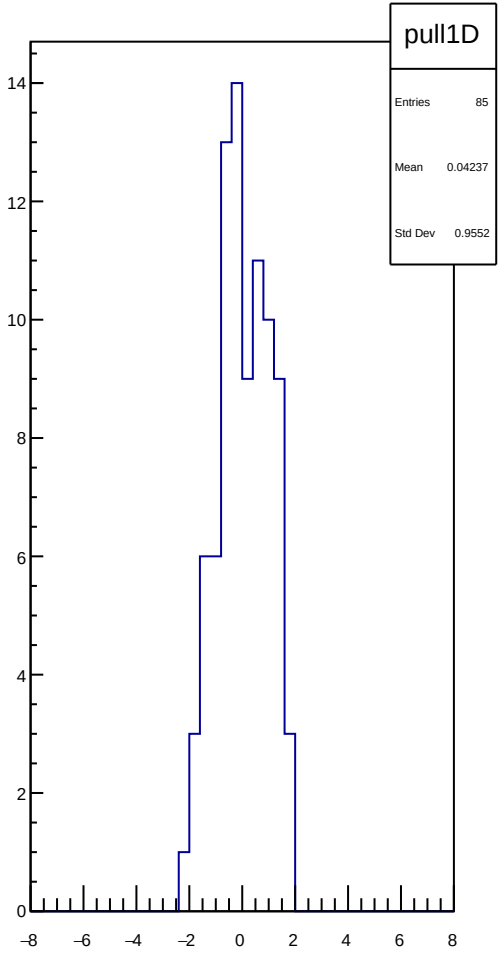

pull1D
Entries 85
Mean −0.04493
Std Dev 0.9625

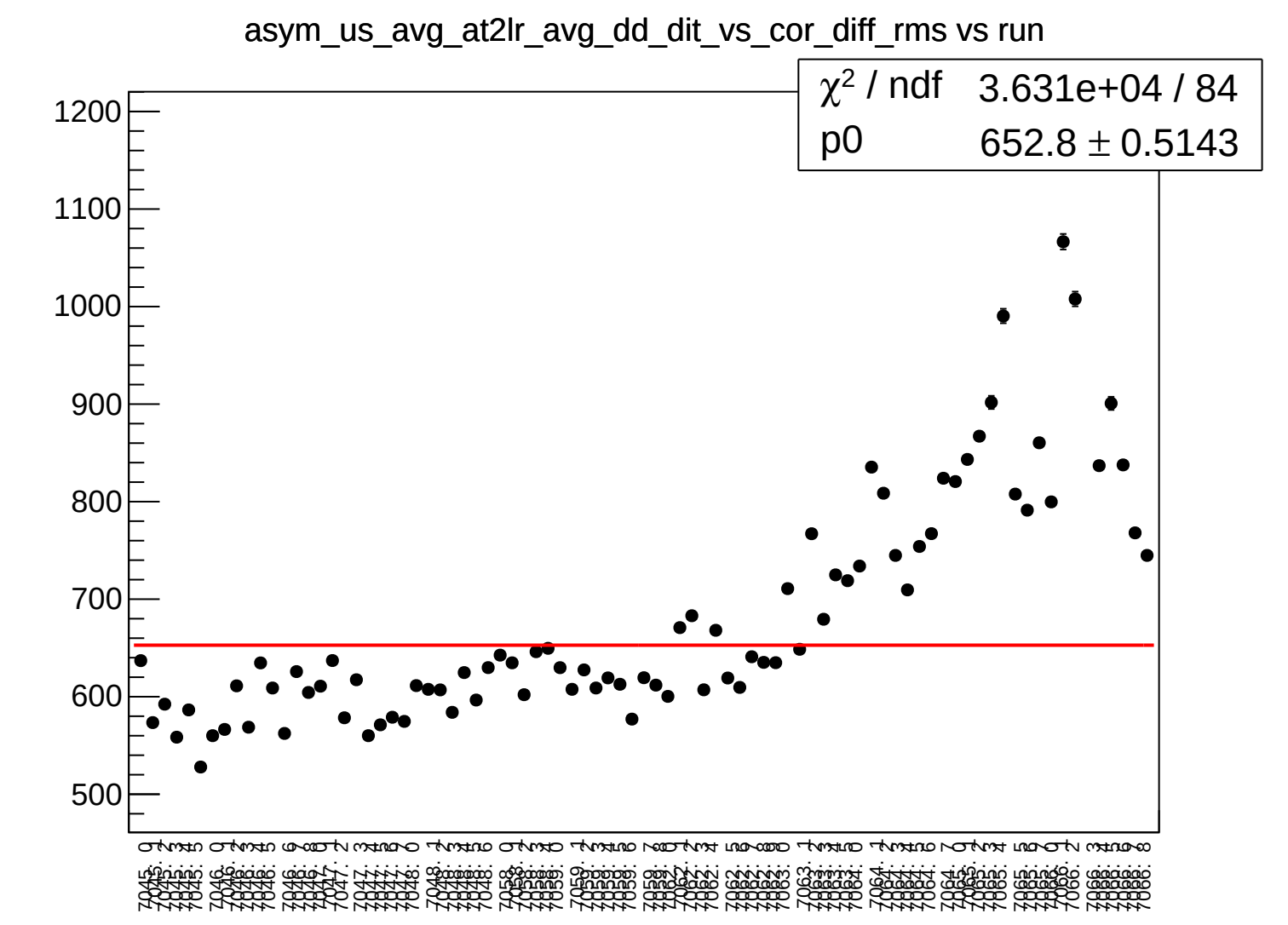

asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 3.213e+04 / 84
p0 8962 ± 7.052
12000
11000
10000
9000
8000
7000

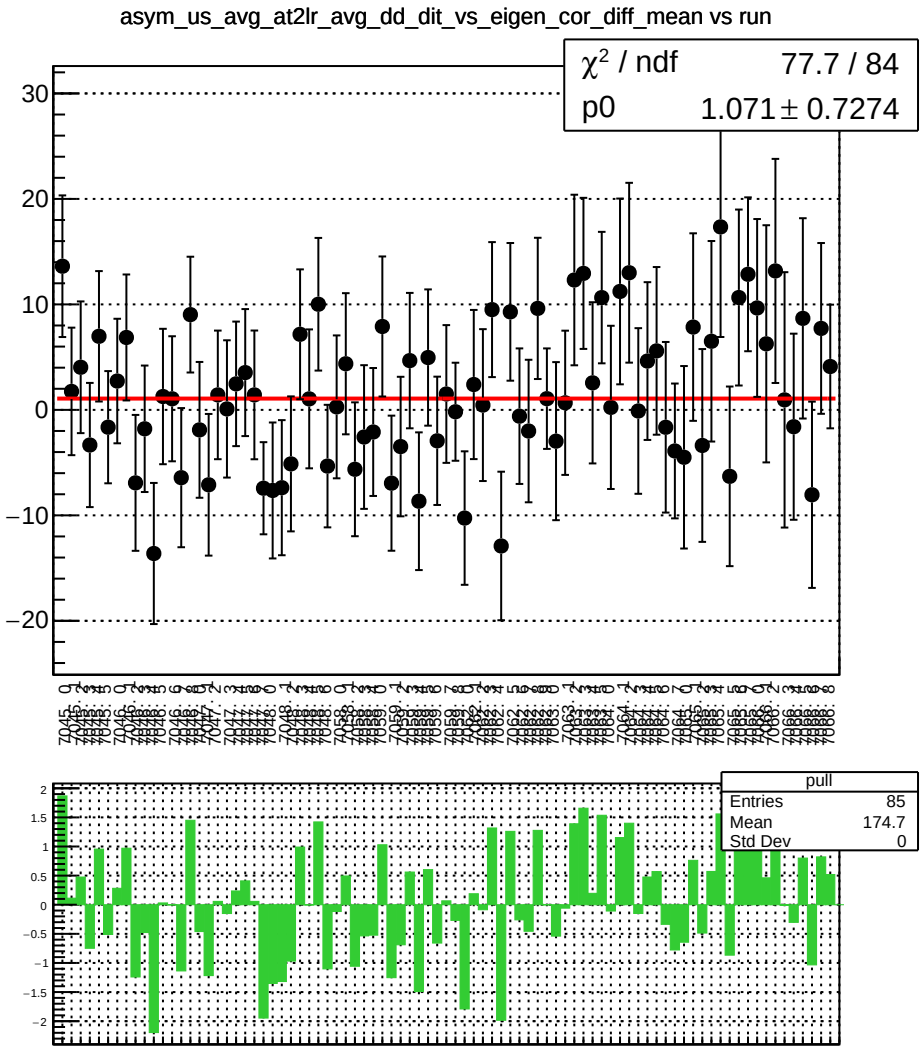

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.54 / 84
p0 −3.607e−13 ± 2.933e−13
pull
Entries 85
Mean 32.59
Std Dev 13.92
pull1D
Entries 85
Mean −0.1275
Std Dev 1.007

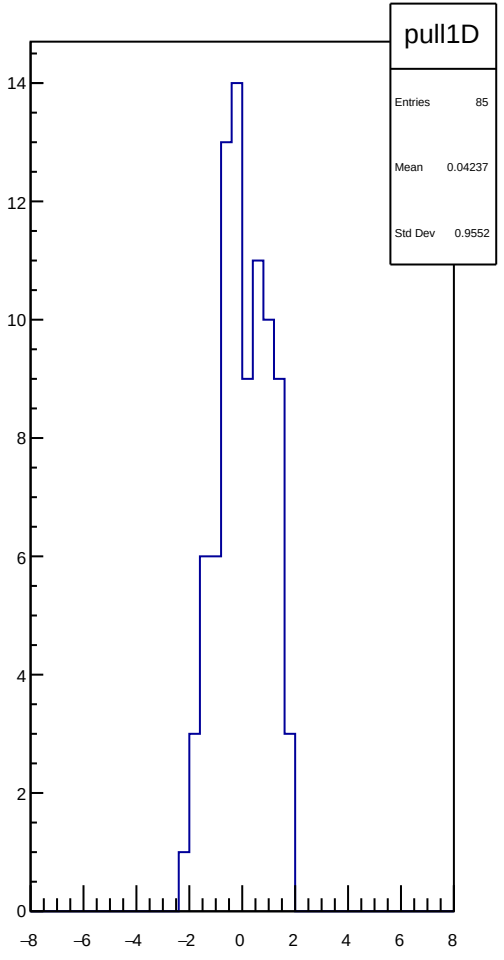

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.58e+05 / 84
p0 1.843e−10 ± 2.074e−13
1
0.8
0.6
0.4
0.2
0

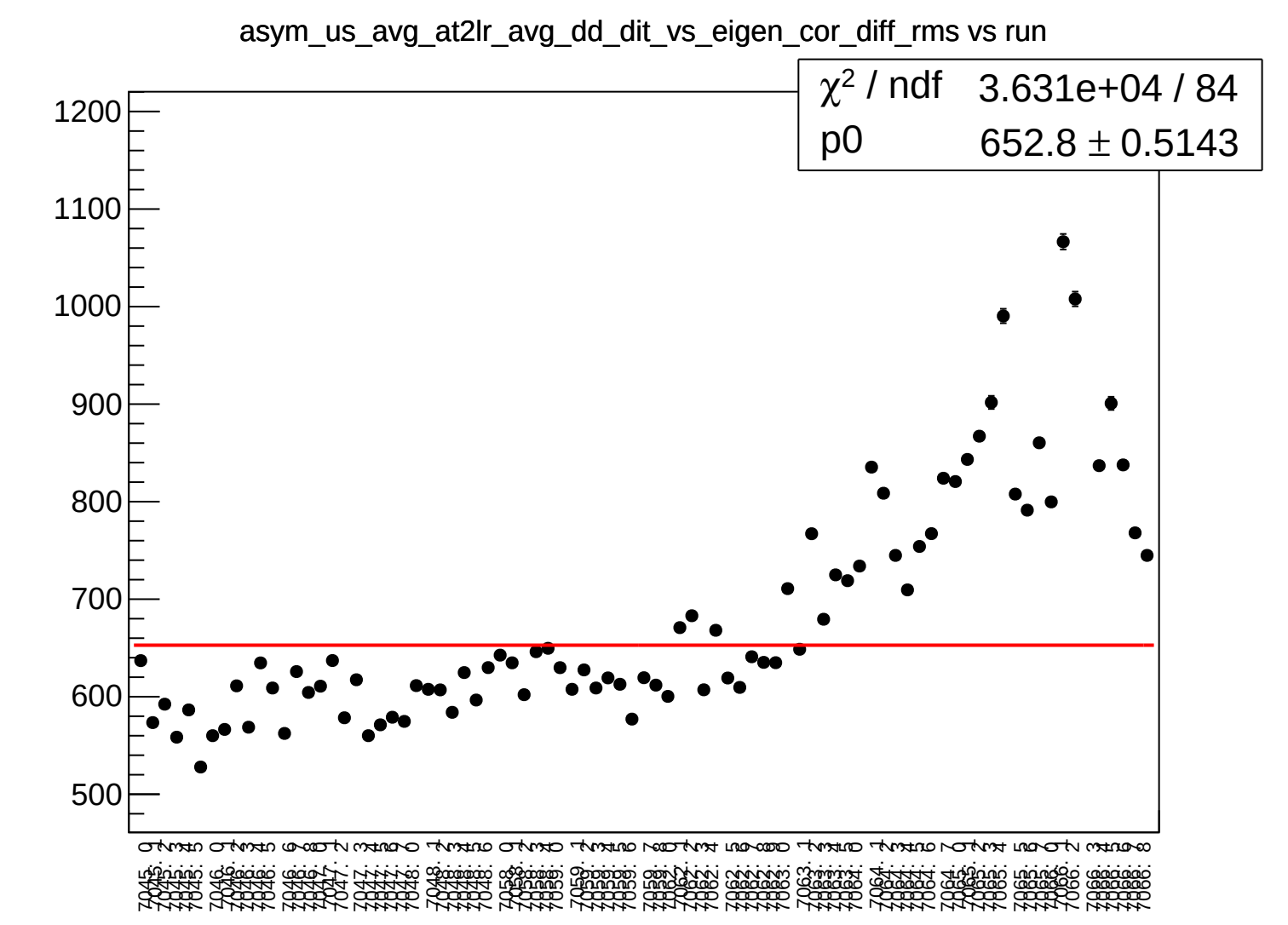

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 84
p0 1.071 ± 0.7274
pull
Entries 85
Mean 174.7
Std Dev 0

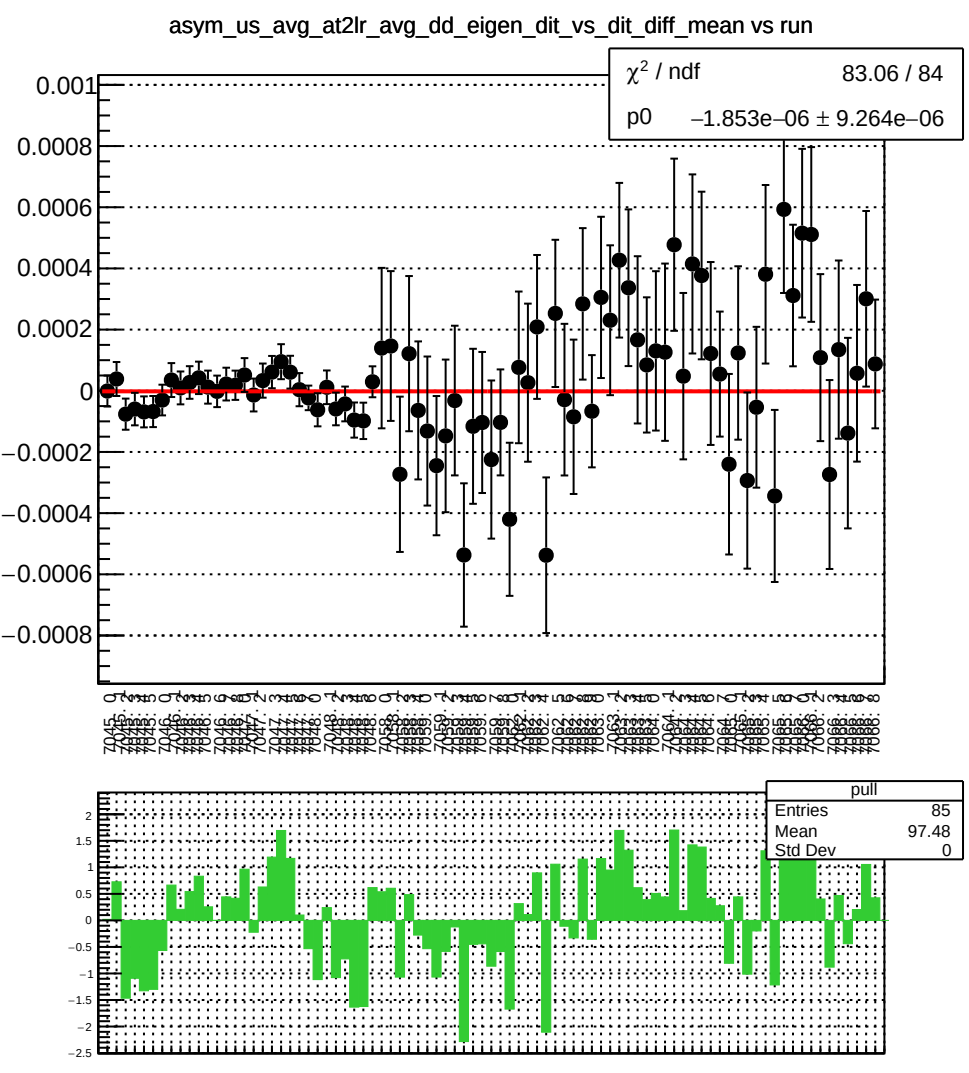

pull1D
Entries 85
Mean 0.04237
Std Dev 0.9552

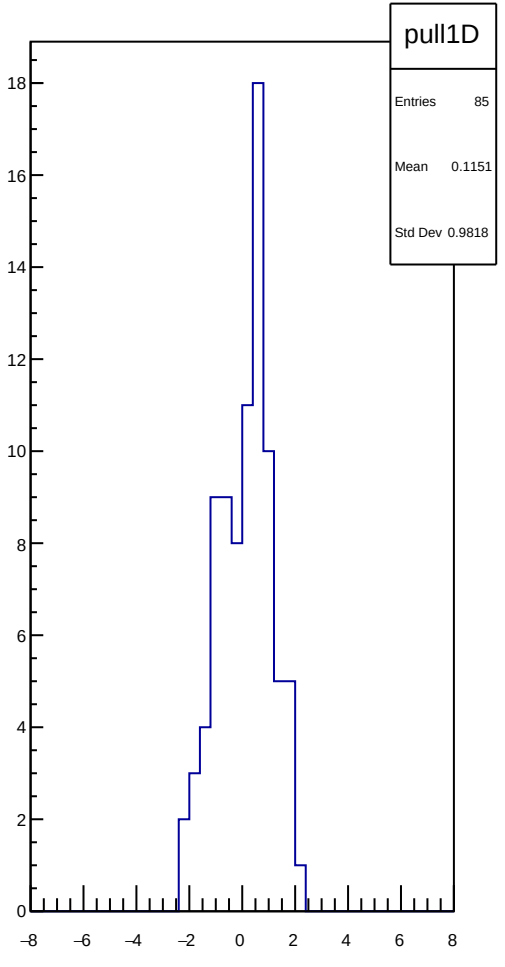

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.631e+04 / 84
p0 652.8 ± 0.5143
1200
1100
1000
900
800
700
600
500

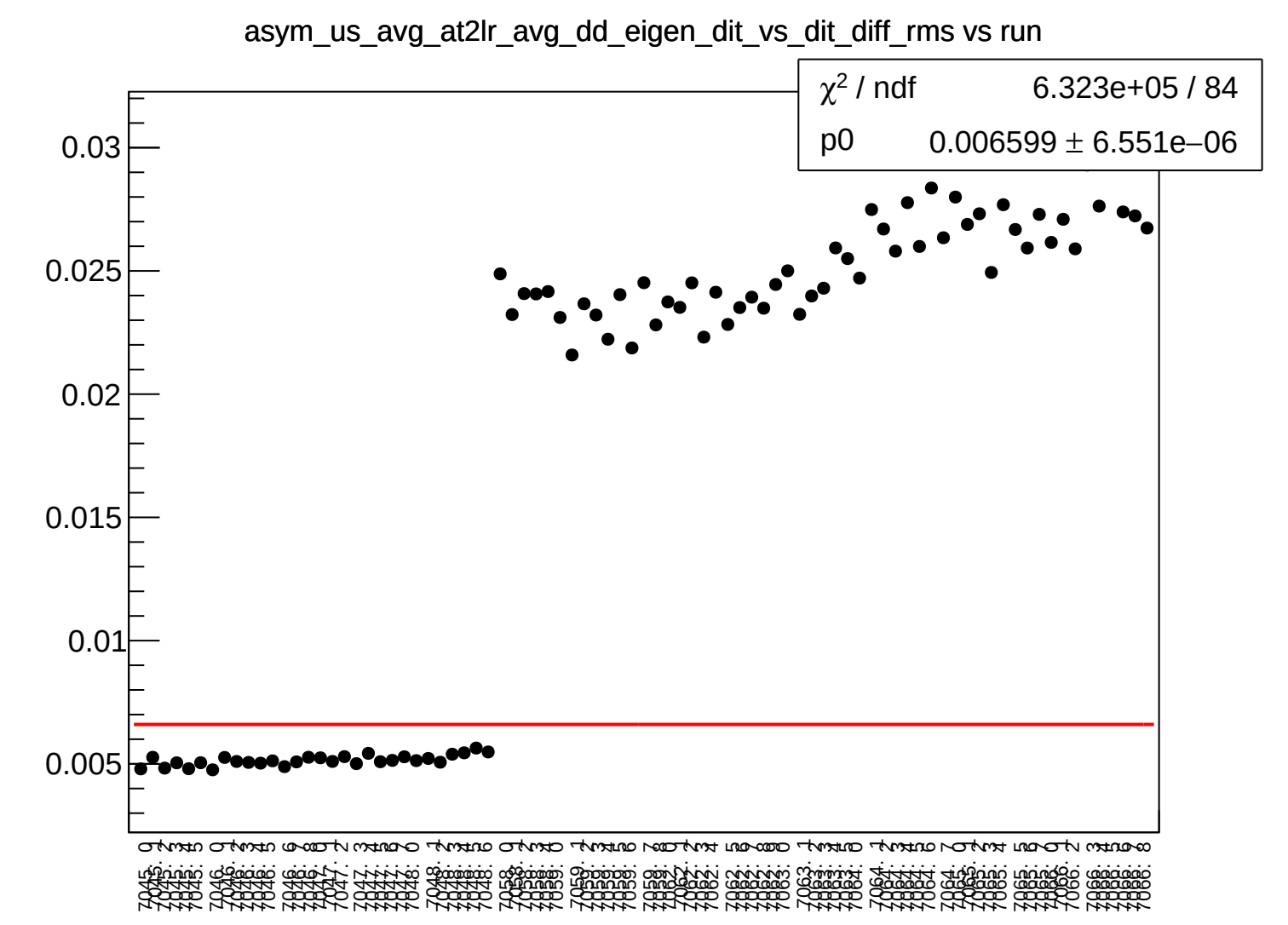

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 84
p0 1.071 ± 0.7274
pull
Entries 85
Mean 174.7
Std Dev 0

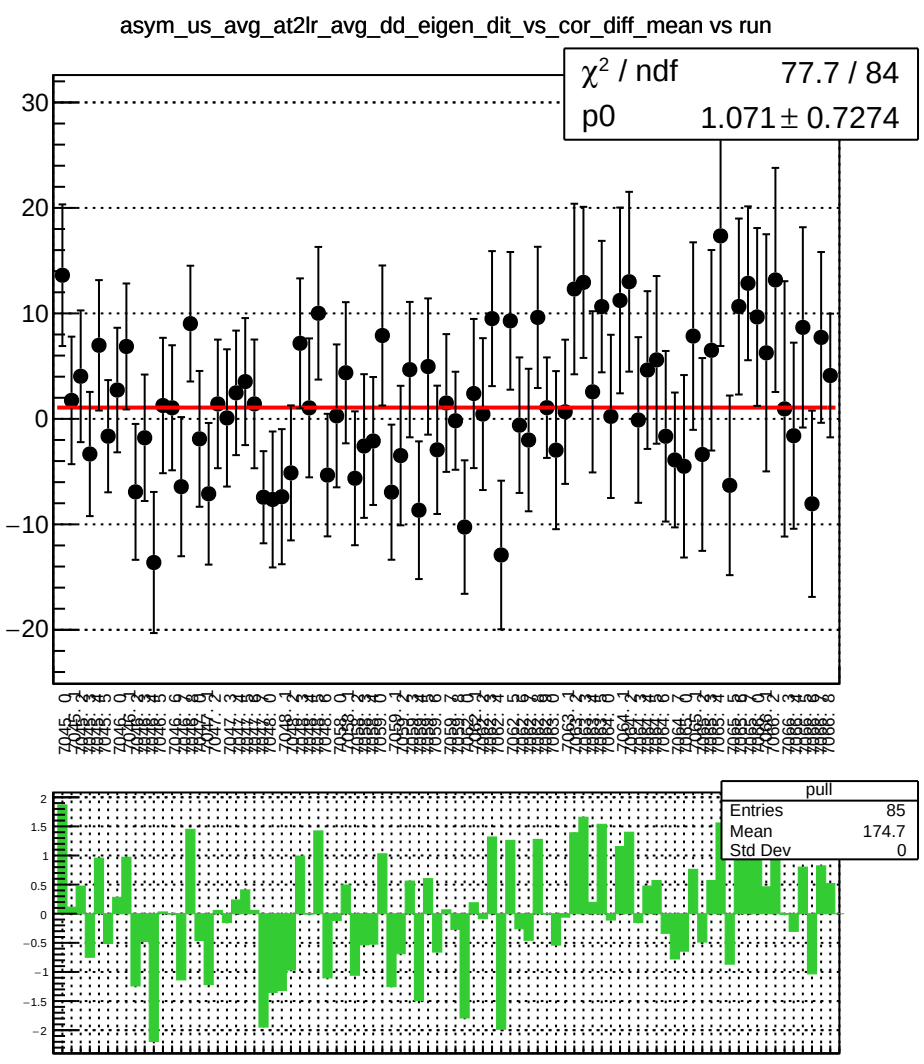

pull1D
Entries 85
Mean 0.04237
Std Dev 0.9552

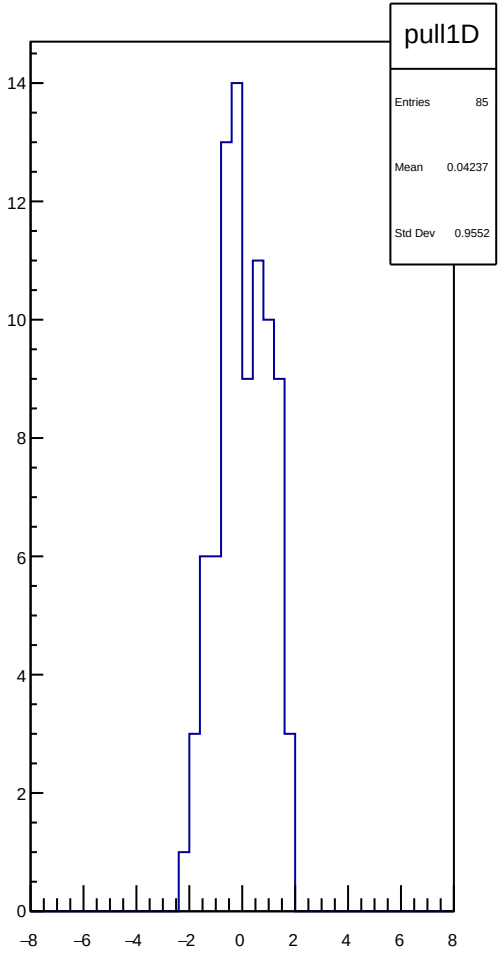

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.631e+04 / 84
p0 652.8 ± 0.5143
1200
1100
1000
900
800
700
600
500

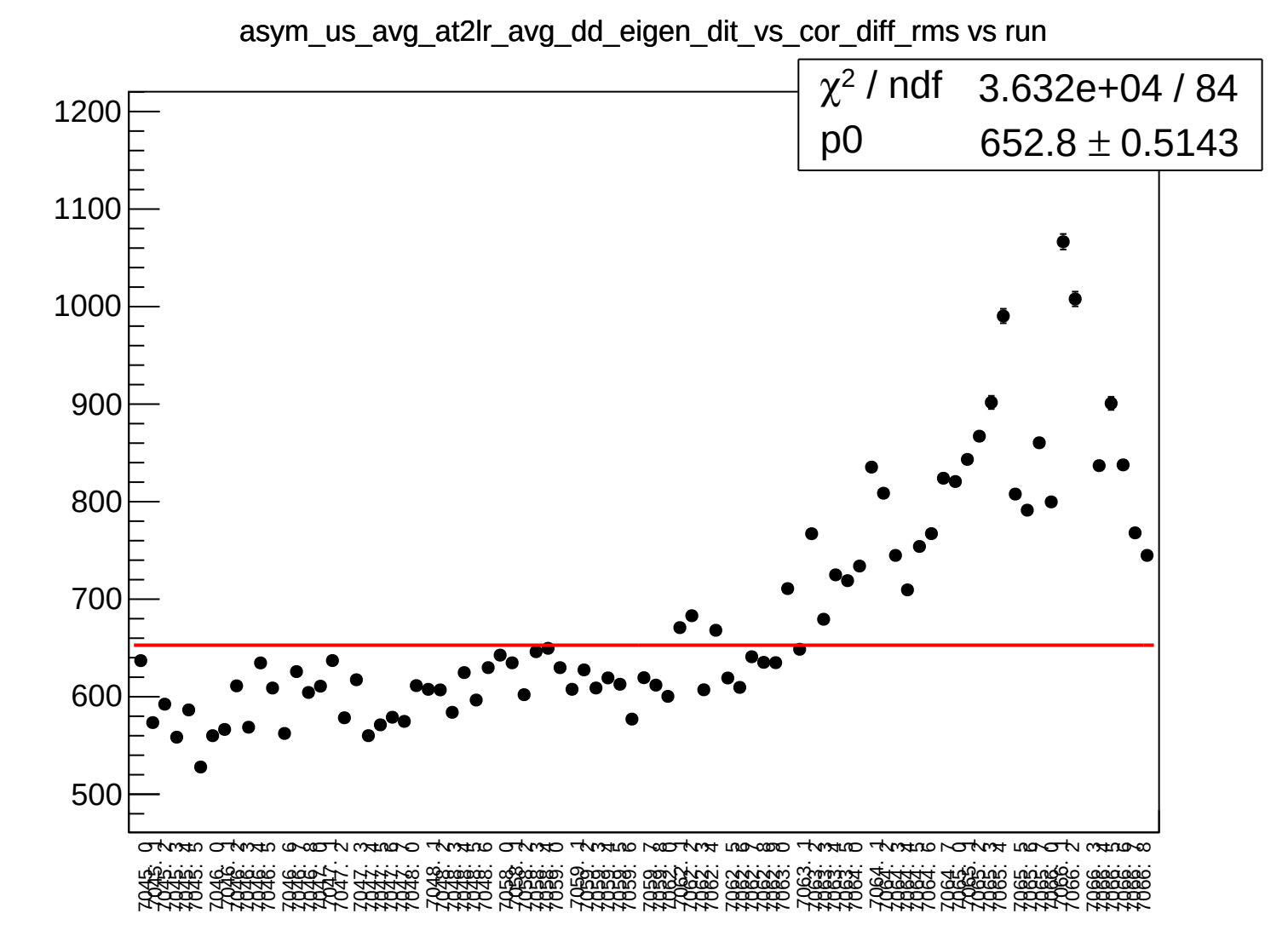

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 83.06 / 84
p0 −1.853e−06 ± 9.264e−06
pull
Entries 85
Mean 97.48
Std Dev 0

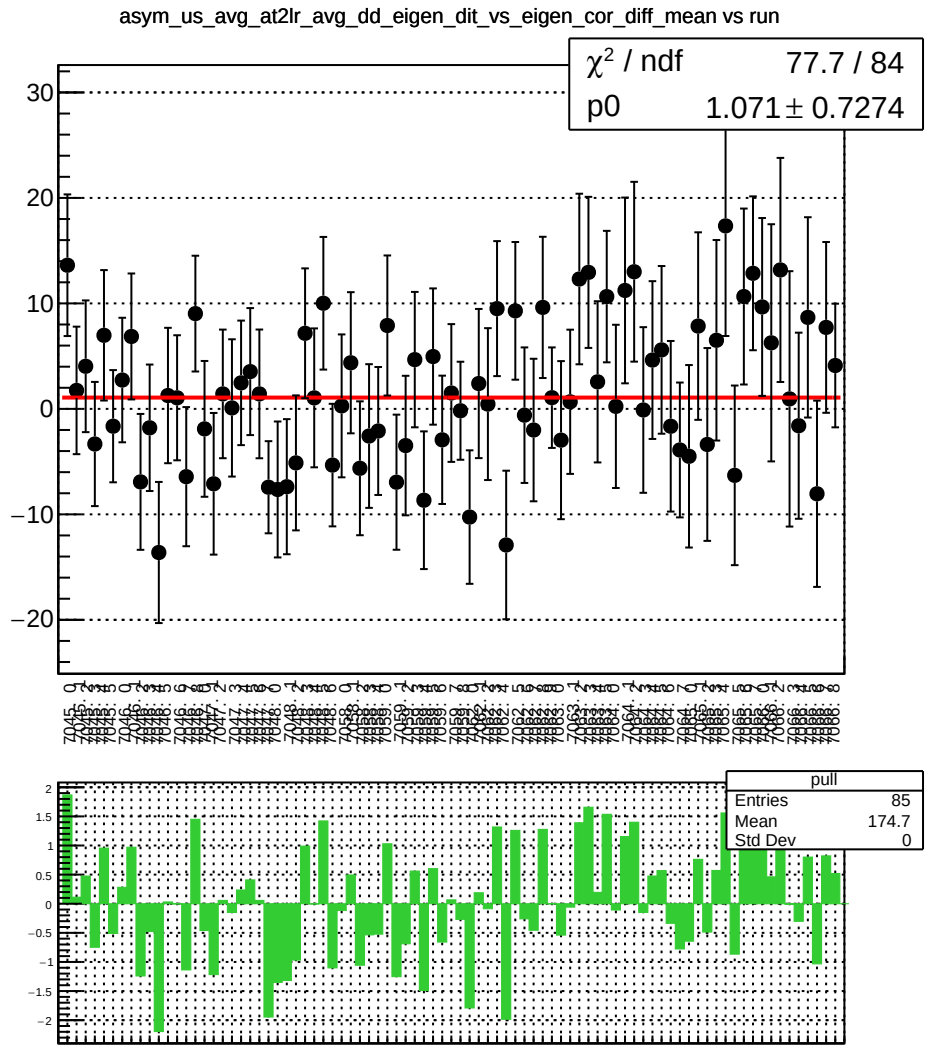

pull1D
Entries 85
Mean 0.1151
Std Dev 0.9818

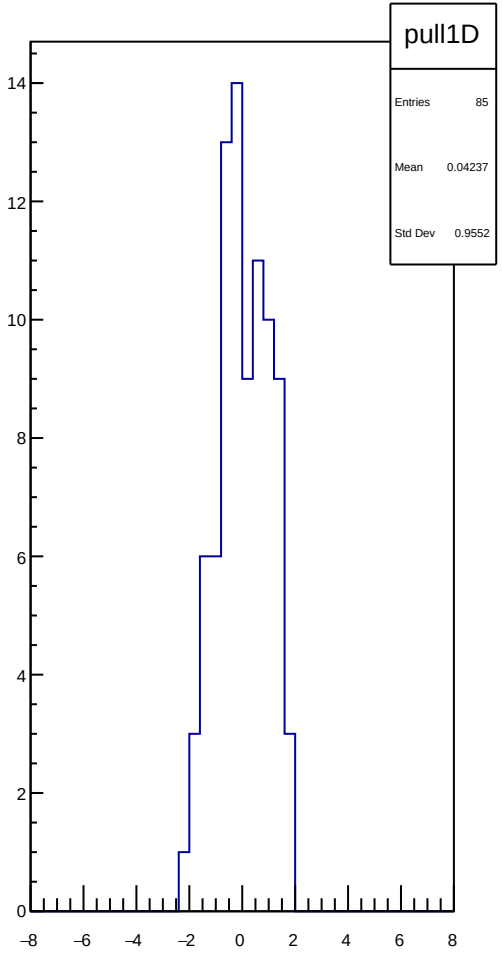

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.323e+05 / 84
p0 0.006599 ± 6.551e−06
0.03
0.025
0.02
0.015
0.01
0.005

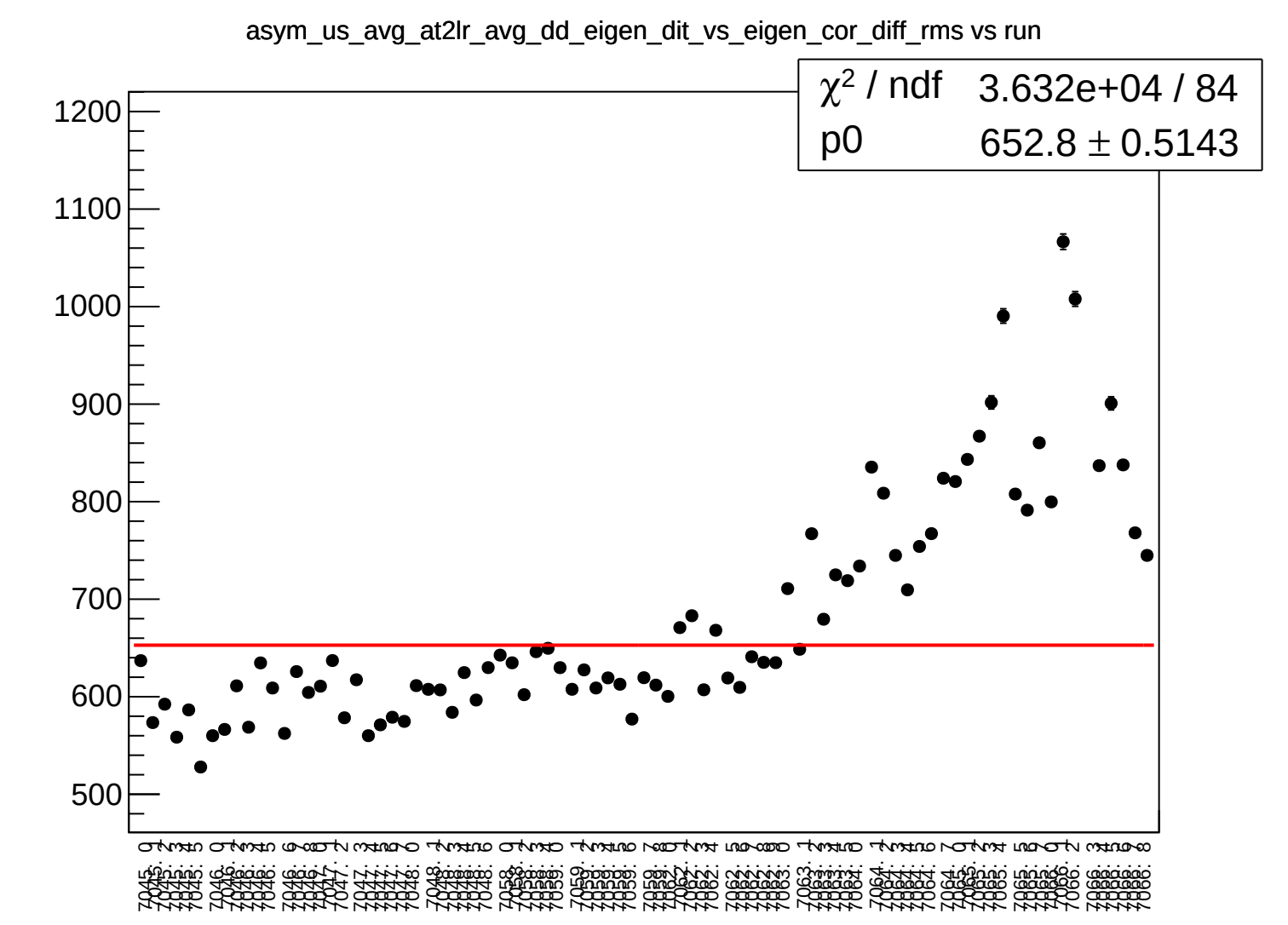

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 84
p0 1.071 ± 0.7274
pull
Entries 85
Mean 174.7
Std Dev 0

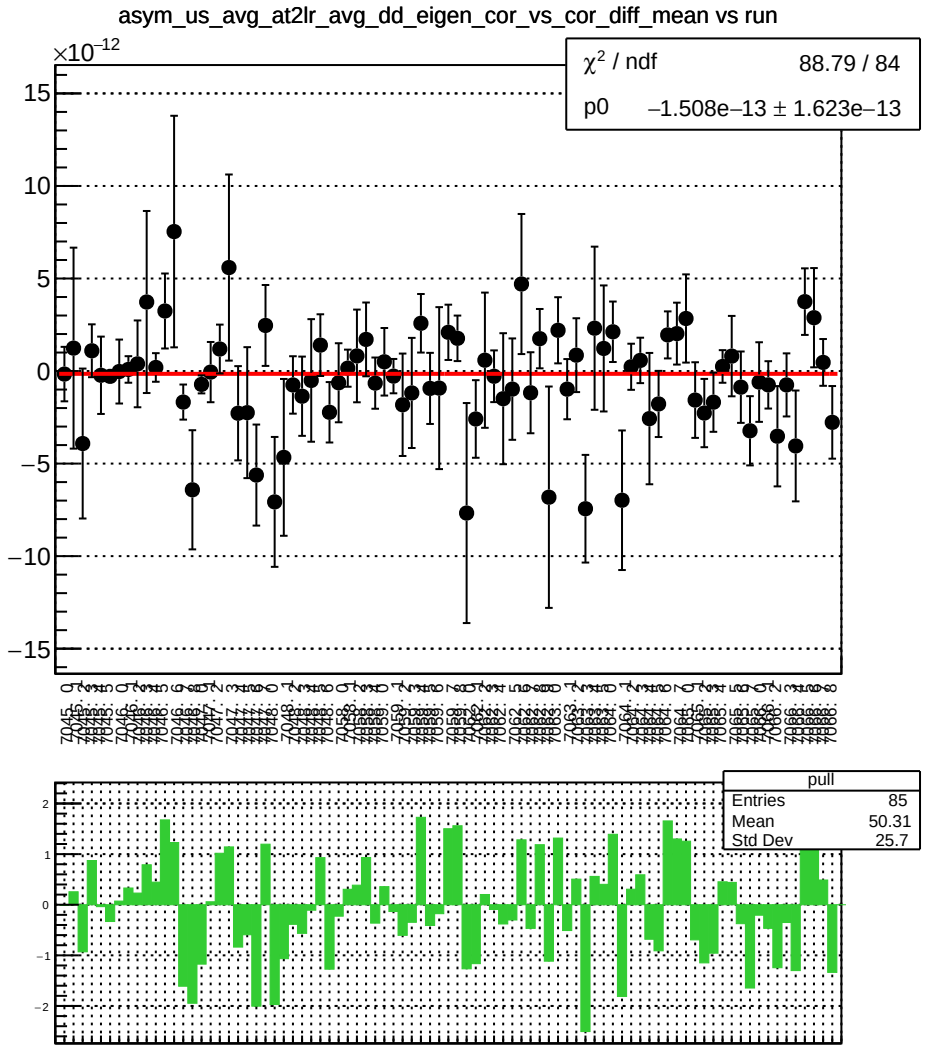

pull1D
Entries 85
Mean 0.04237
Std Dev 0.9552

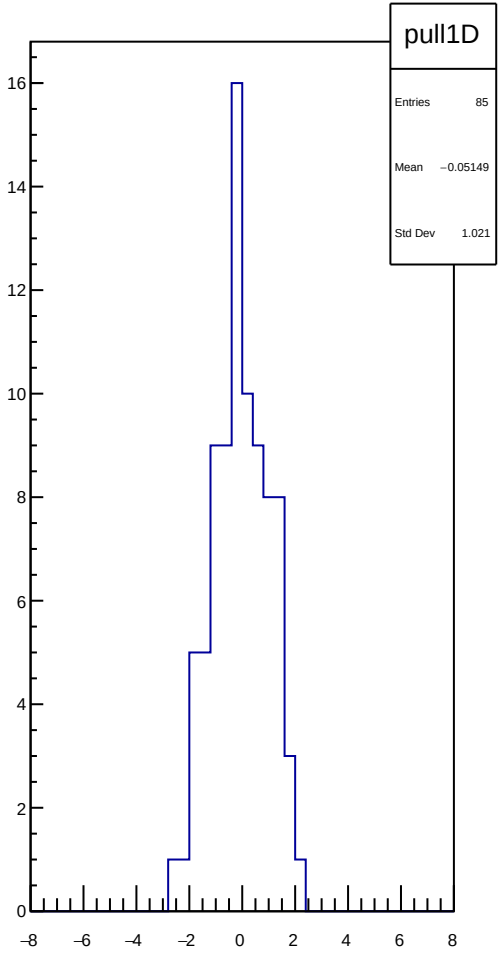

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.632e+04 / 84
p0 652.8 ± 0.5143
1200
1100
1000
900
800
700
600
500

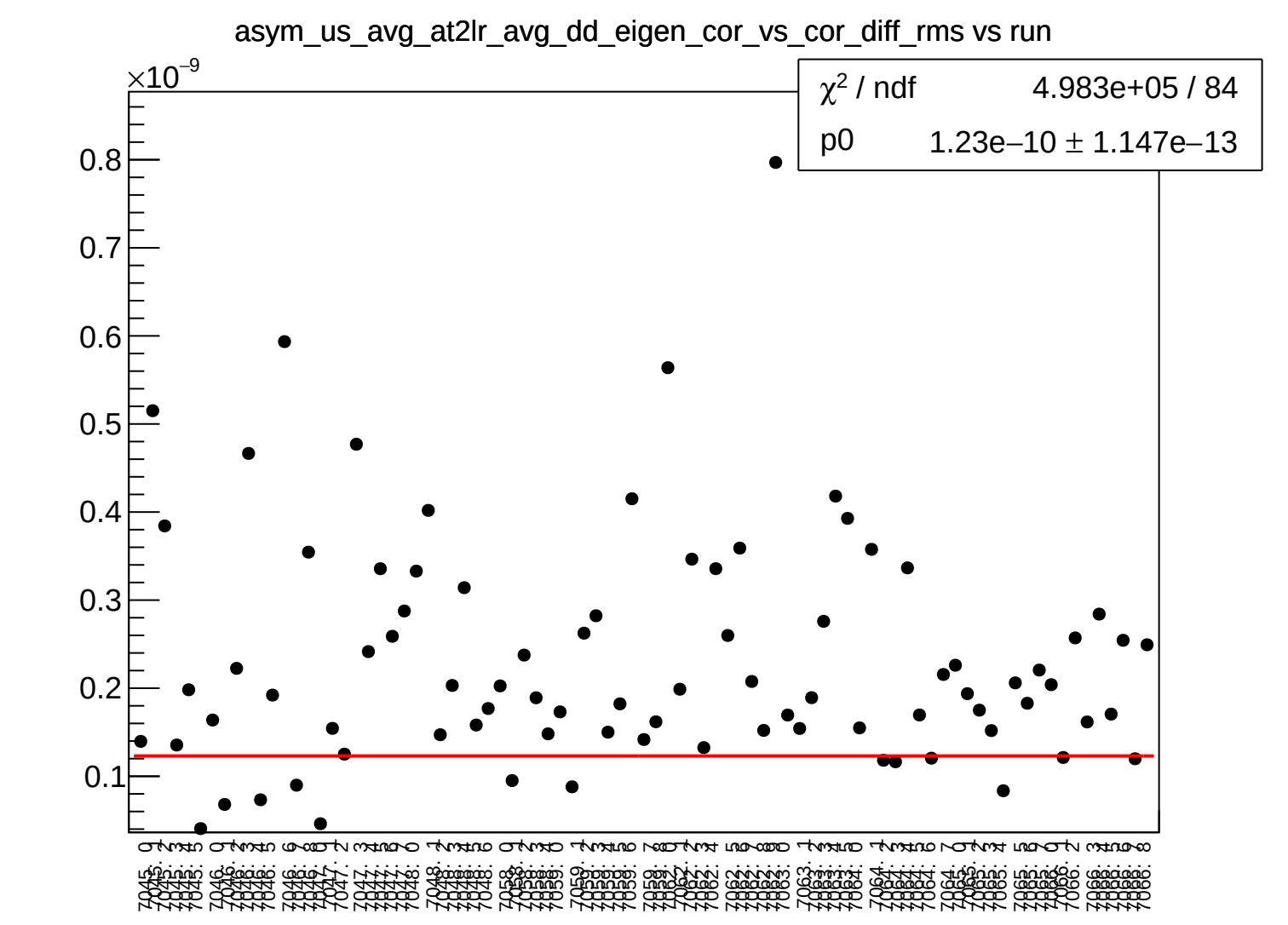

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 84
p0 1.071 ± 0.7274
pull
Entries 85
Mean 174.7
Std Dev 0

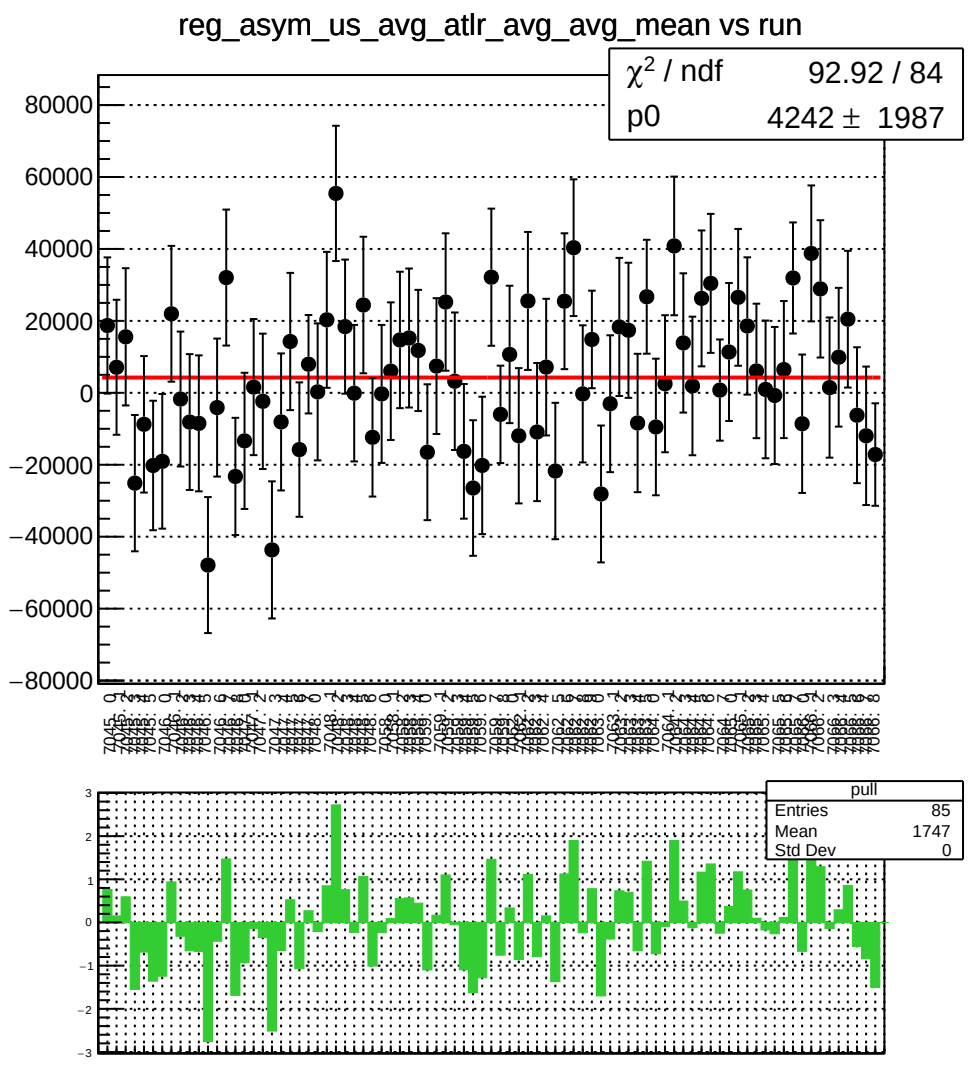

pull1D
Entries 85
Mean 0.04237
Std Dev 0.9552

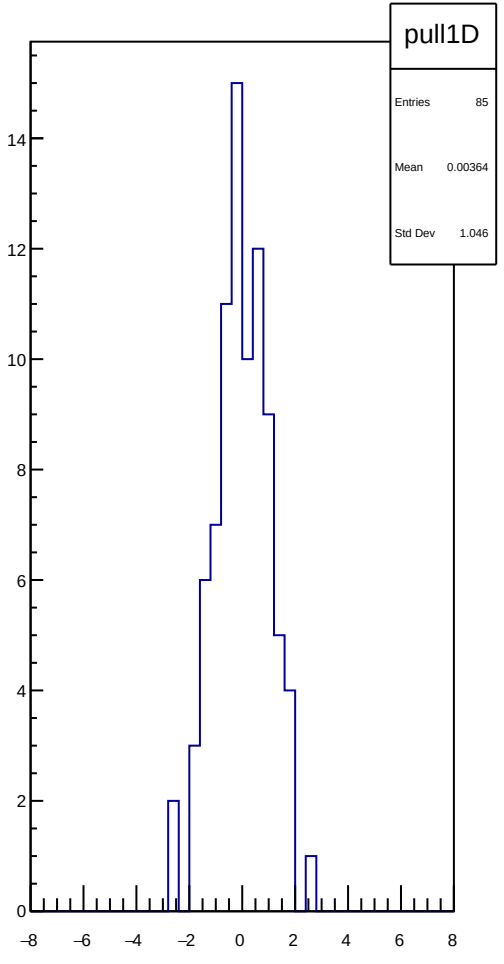

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.632e+04 / 84
p0 652.8 ± 0.5143
1200
1100
1000
900
800
700
600
500

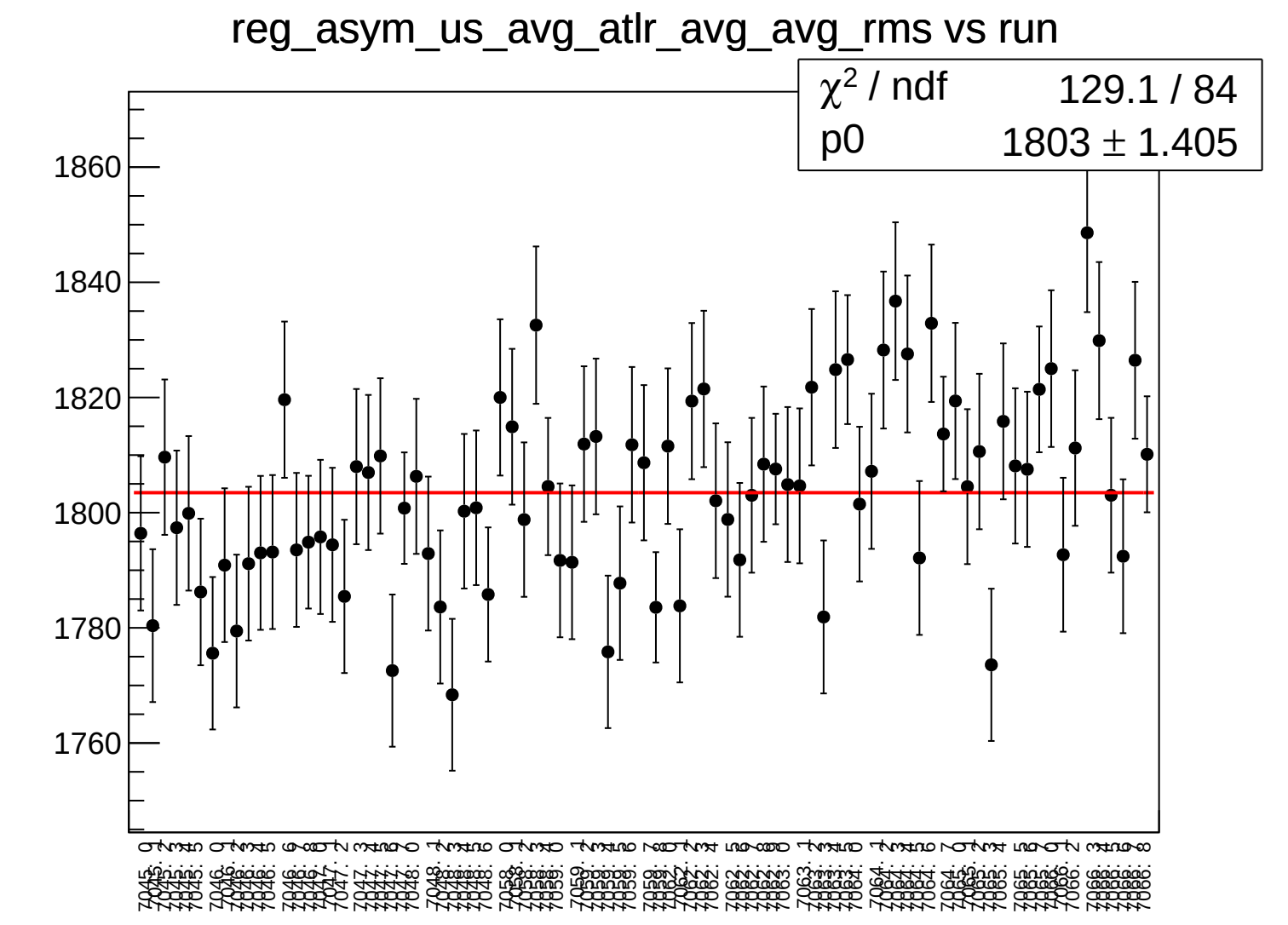

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.79 / 84
p0 −1.508e−13 ± 1.623e−13
pull
Entries 85
Mean 50.31
Std Dev 25.7

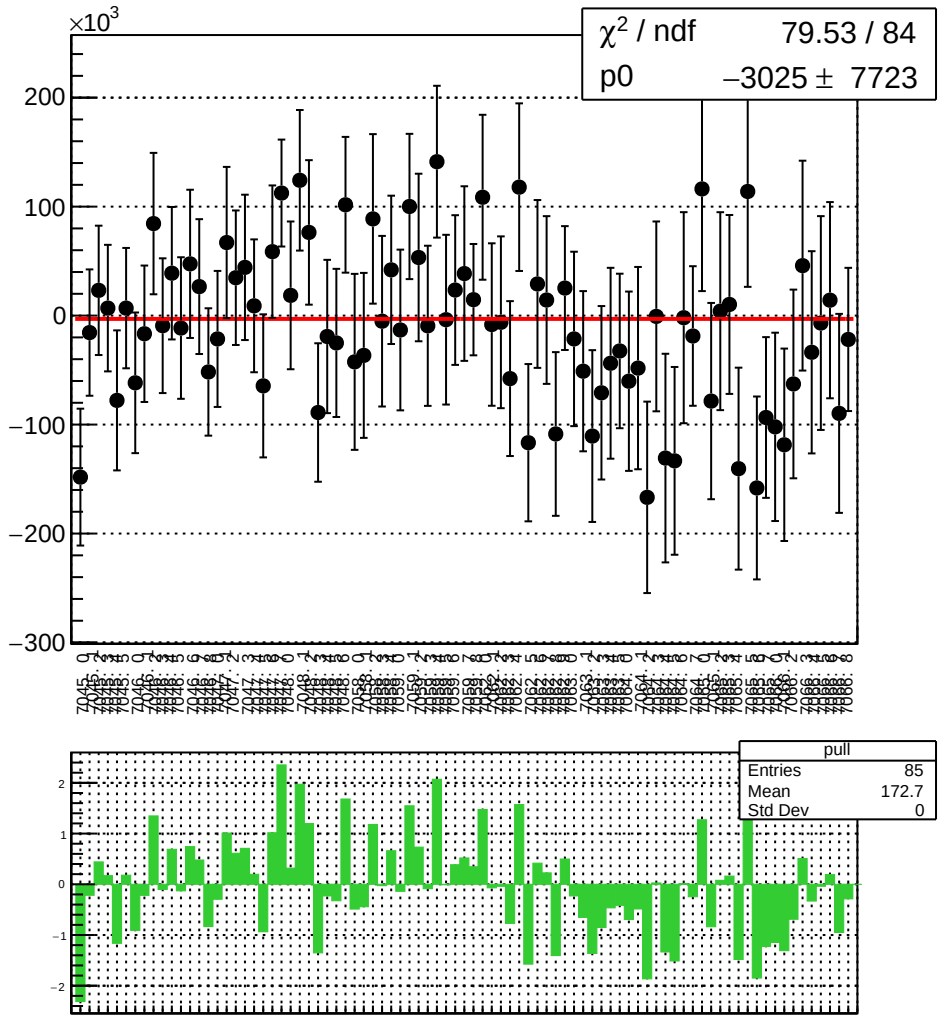

pull1D
Entries 85
Mean −0.05149
Std Dev 1.021

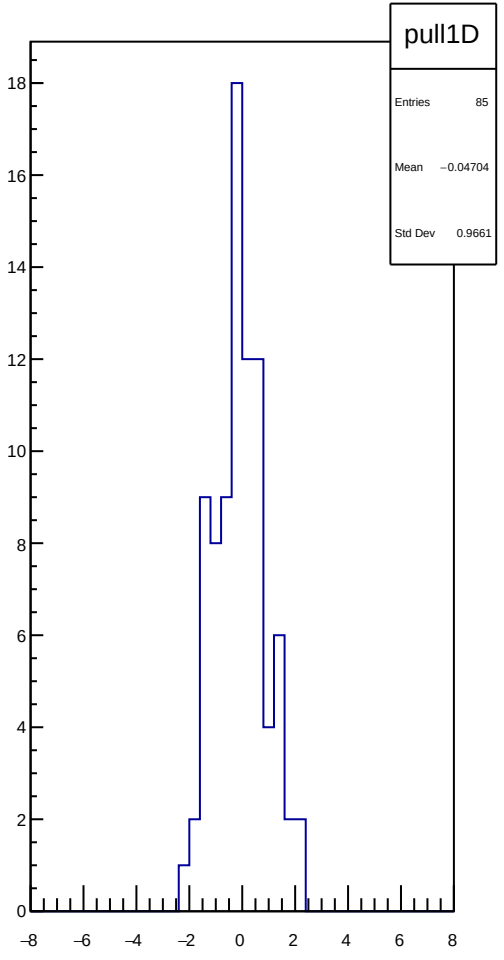

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.983e+05 / 84
p0 1.23e−10 ± 1.147e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

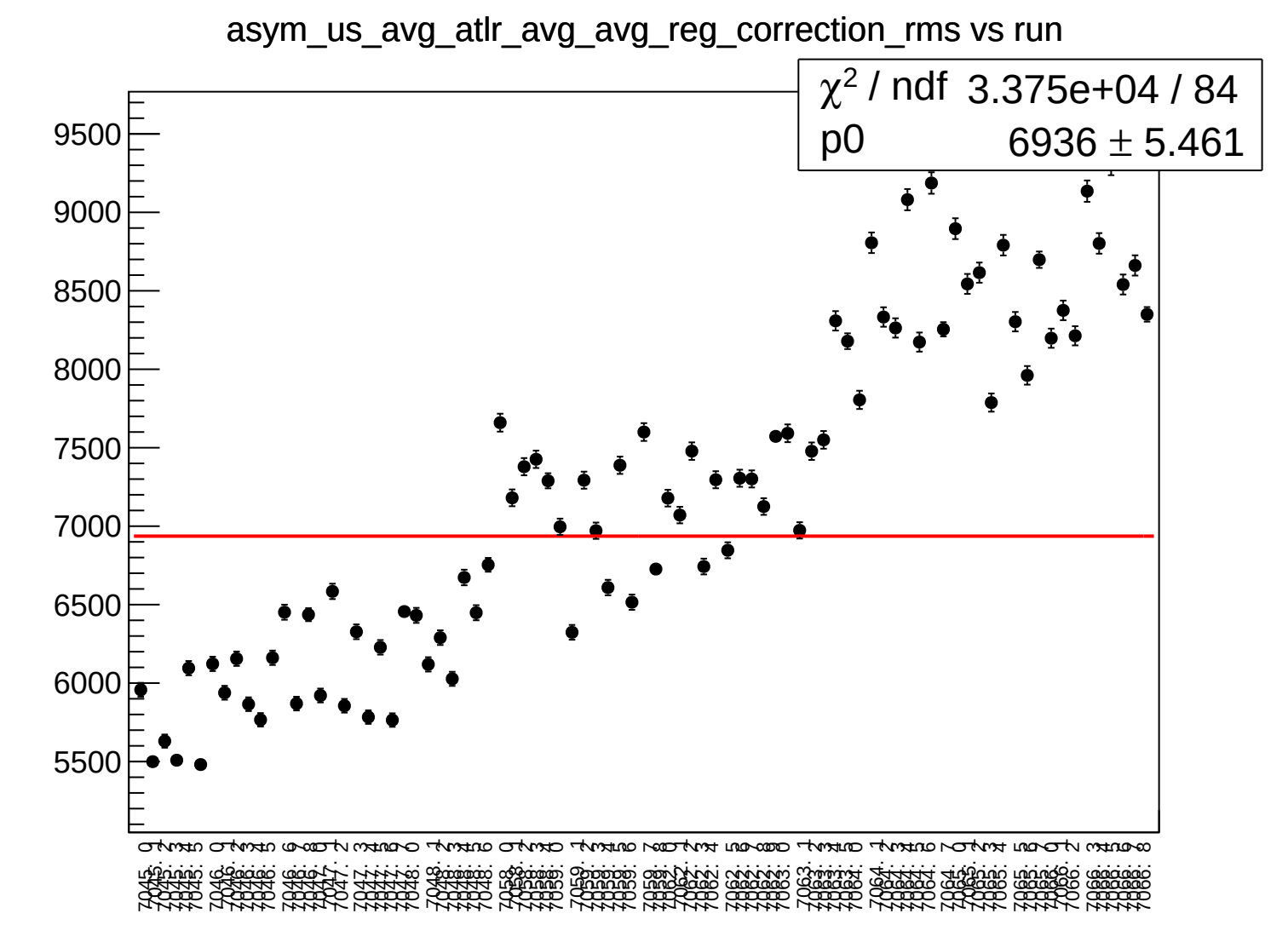

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.92 / 84
p0 4242 ± 1987
pull
Entries 85
Mean 1747
Std Dev 0

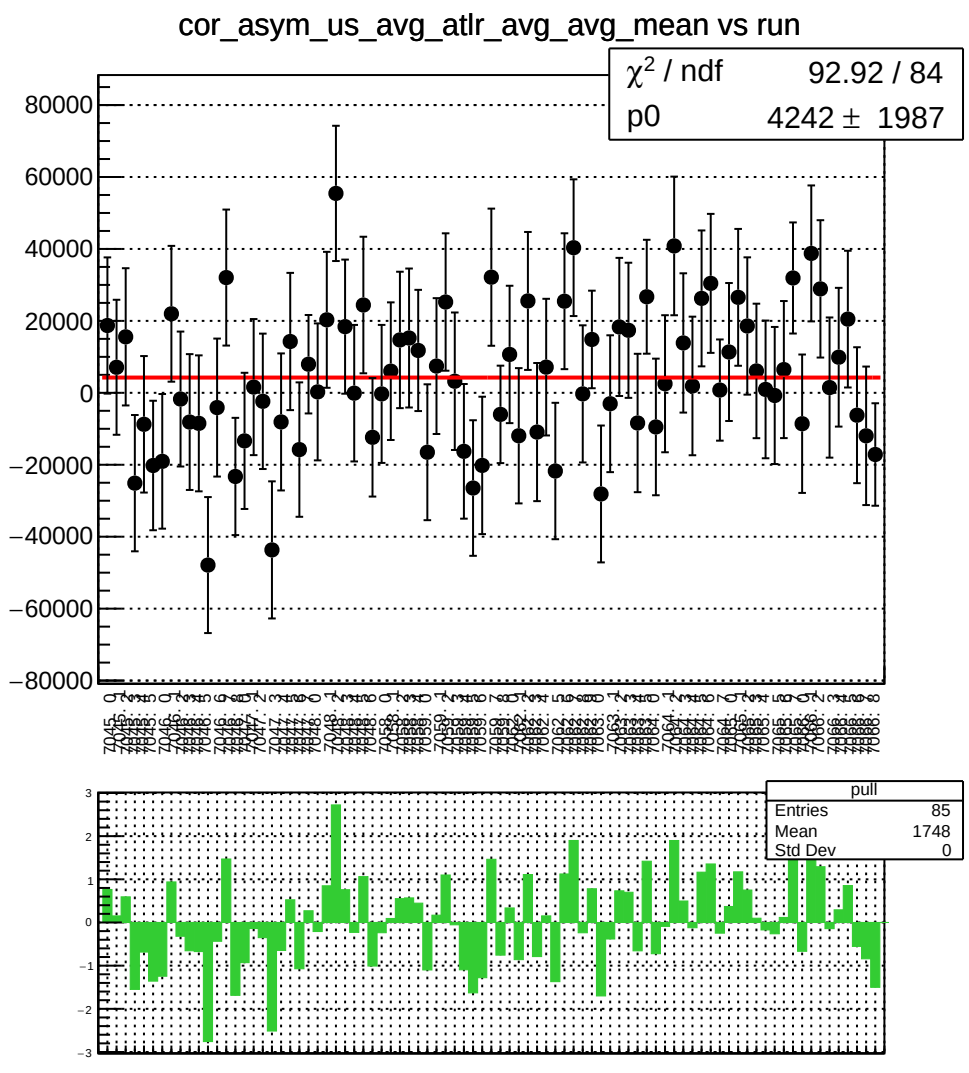

pull1D
Entries 85
Mean 0.00364
Std Dev 1.046

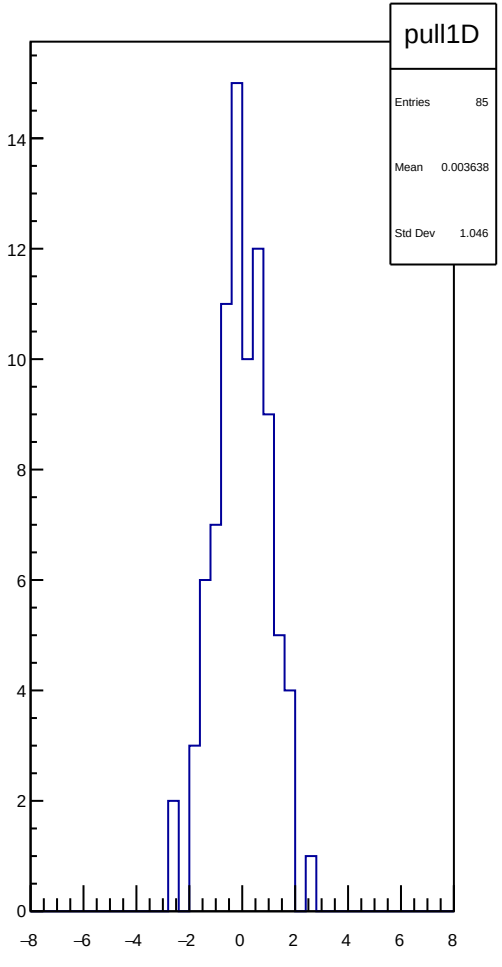

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 129.1 / 84
p0 1803 ± 1.405
1860
1840
1820
1800
1780
1760

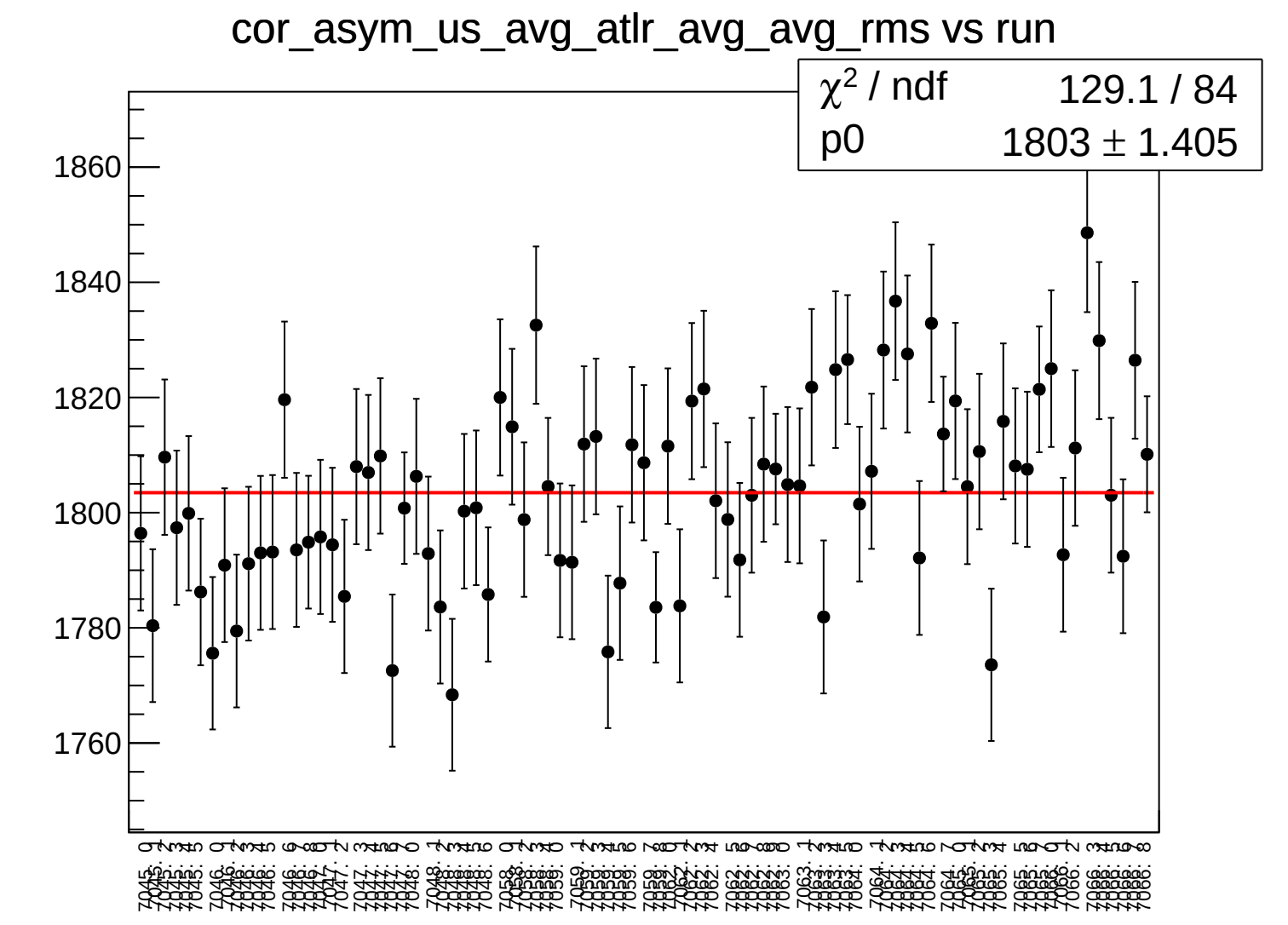

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.53 / 84
p0 −3025 ± 7723
pull
Entries 85
Mean 172.7
Std Dev 0

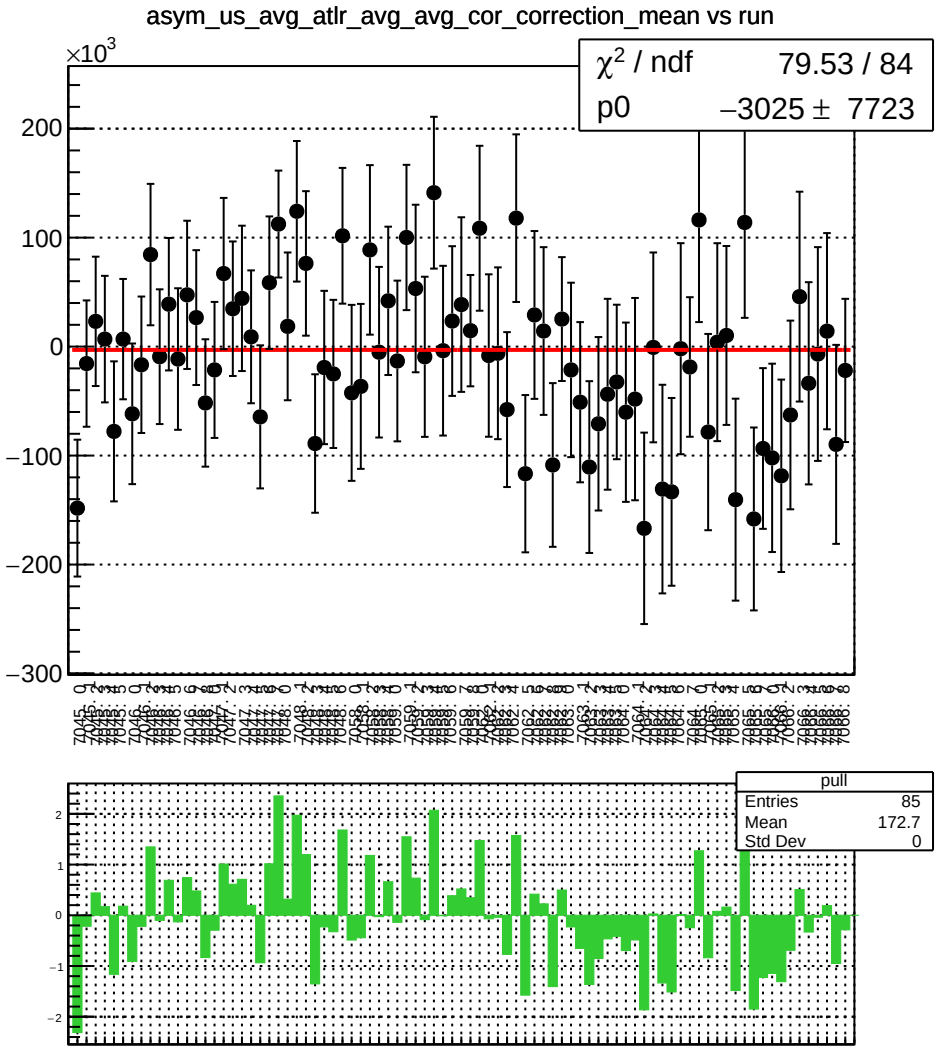

pull1D
Entries 85
Mean −0.04704
Std Dev 0.9661

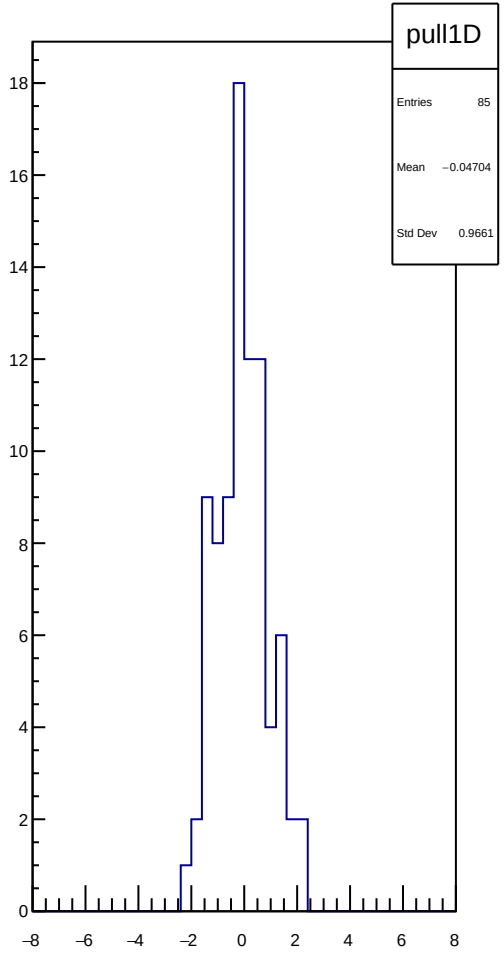

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 3.375e+04 / 84
p0 6936 ± 5.461
9500
9000
8500
8000
7500
7000
6500
6000
5500

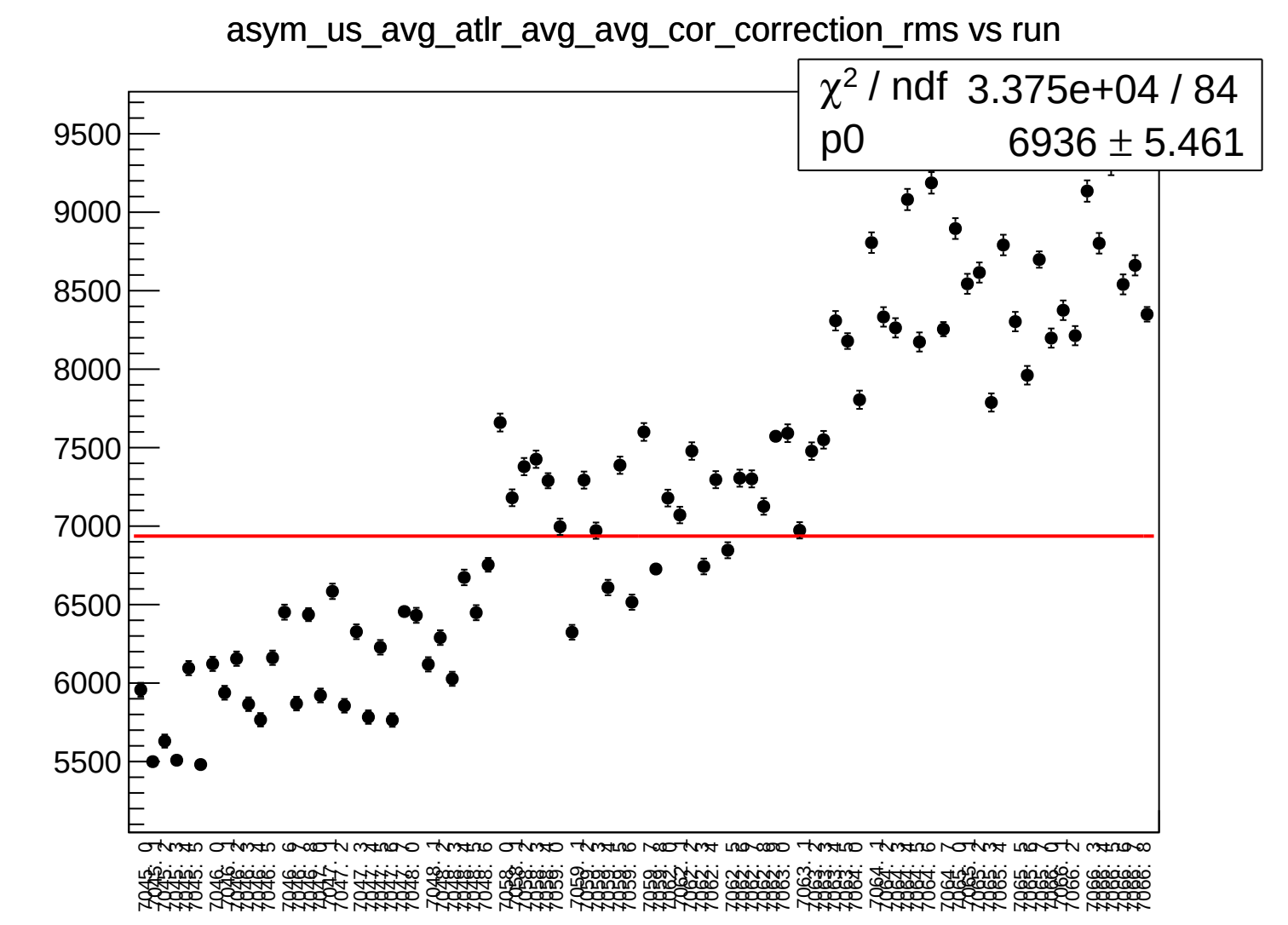

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.92 / 84
p0 4242 ± 1987
pull
Entries 85
Mean 1748
Std Dev 0

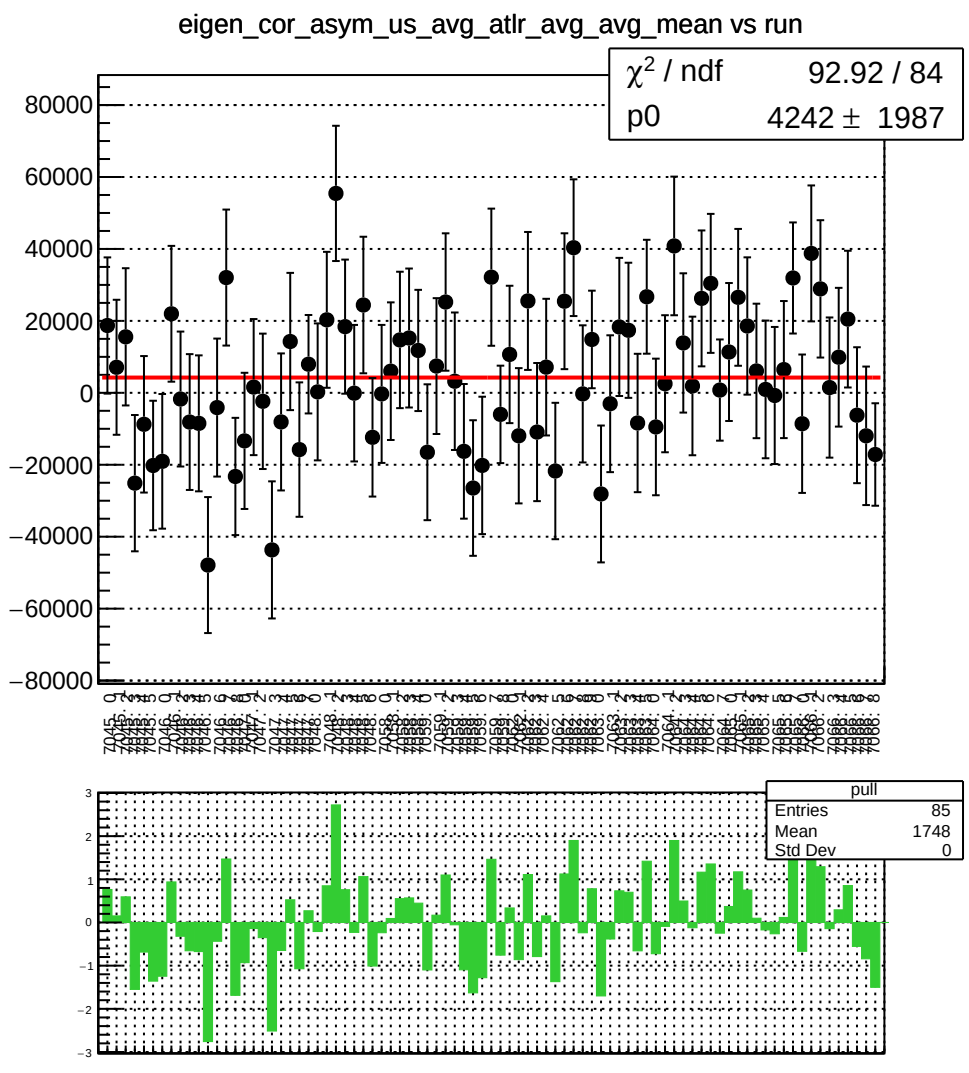

pull1D
Entries 85
Mean 0.003638
Std Dev 1.046

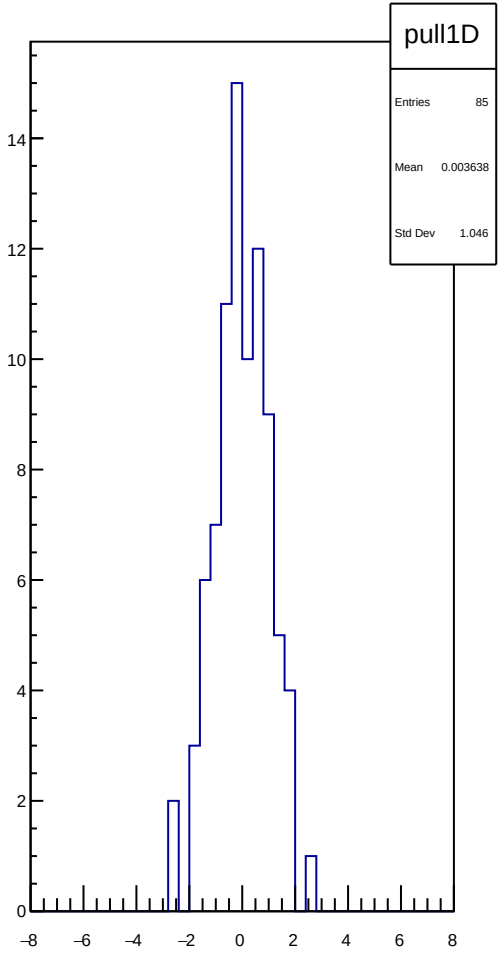

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 129.1 / 84
p0 1803 ± 1.405
1860
1840
1820
1800
1780
1760

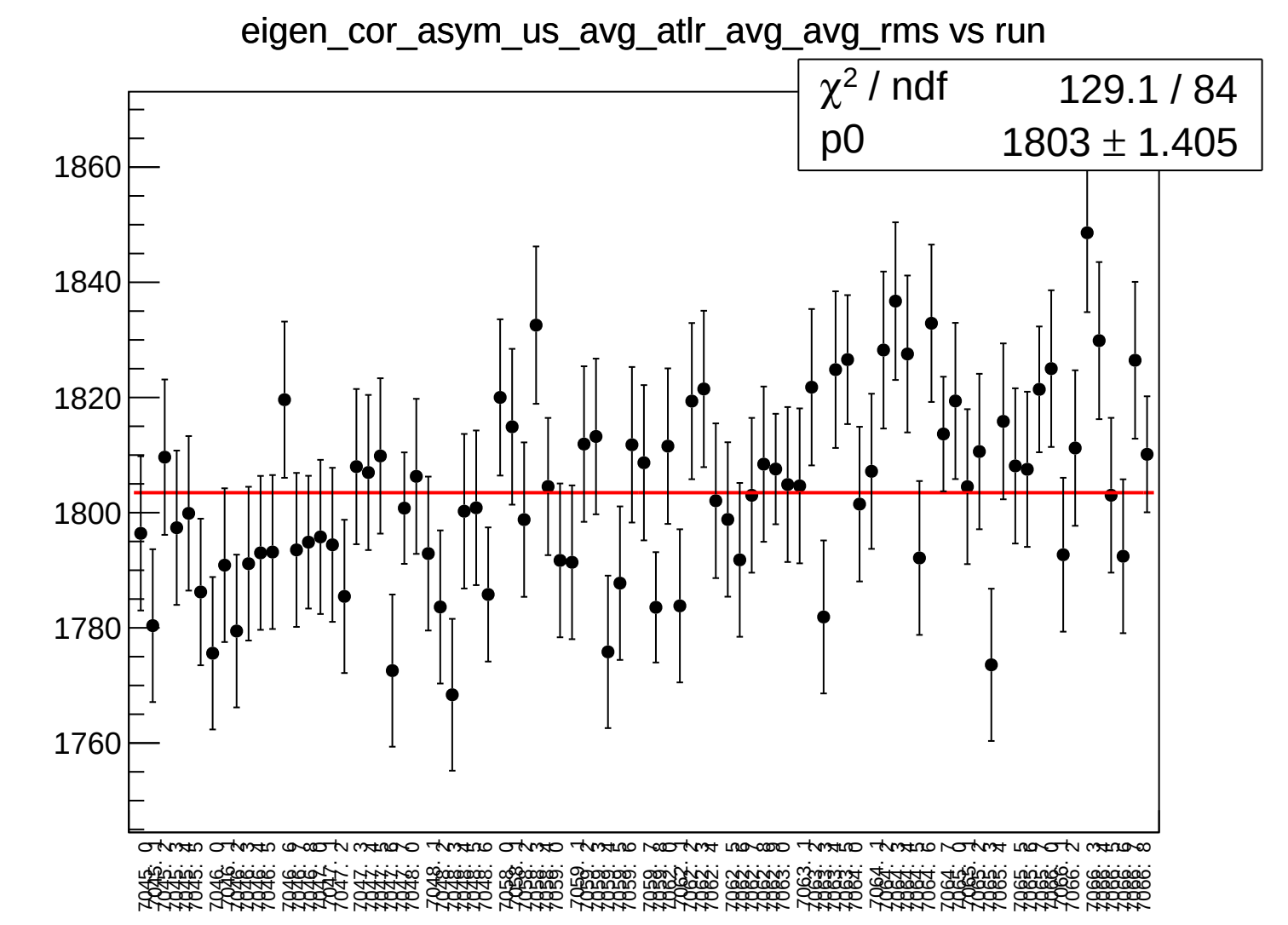

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.53 / 84
p0 −3025 ± 7723
pull
Entries 85
Mean 172.7
Std Dev 0

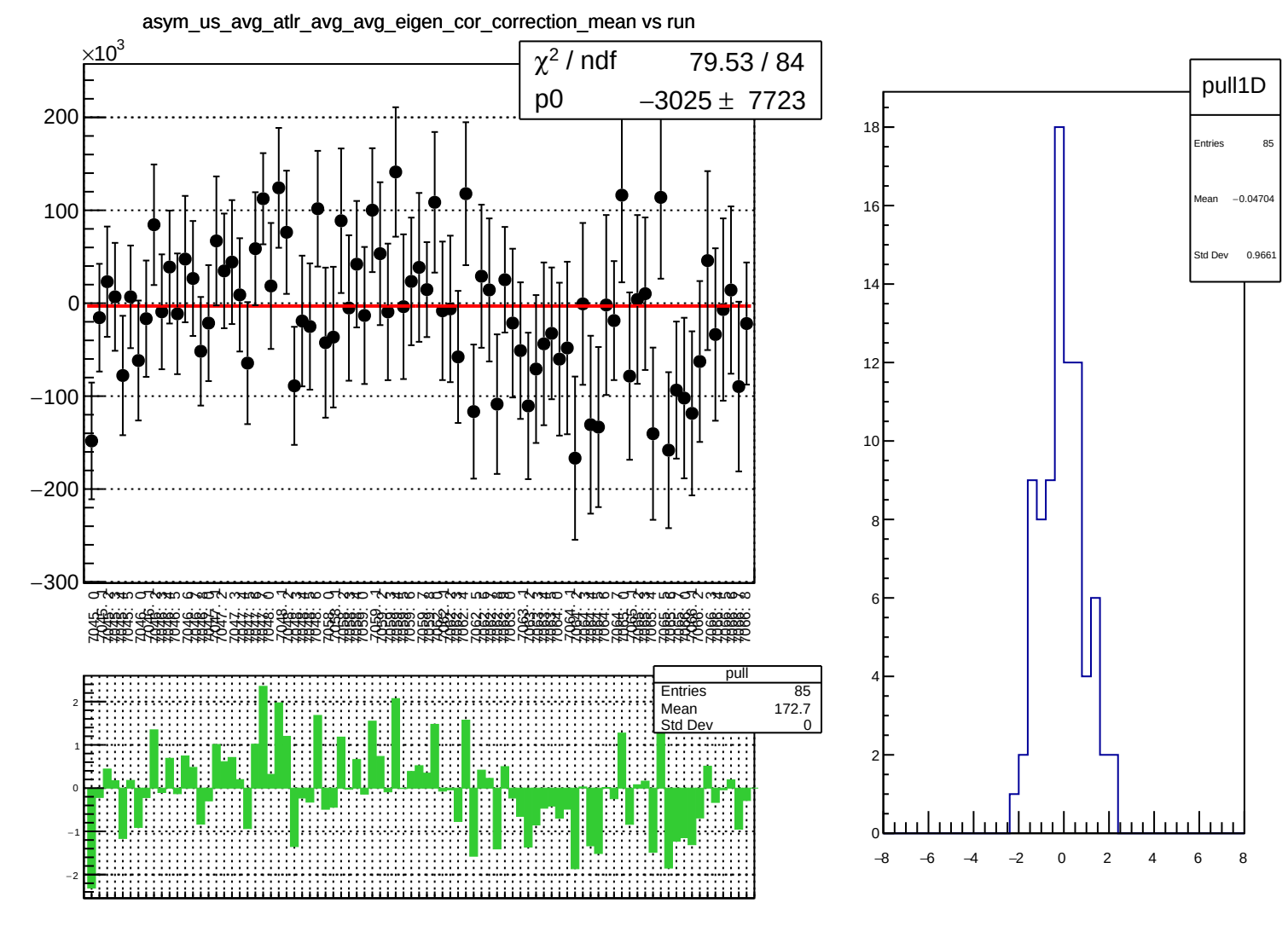

pull1D
Entries 85
Mean −0.04704
Std Dev 0.9661

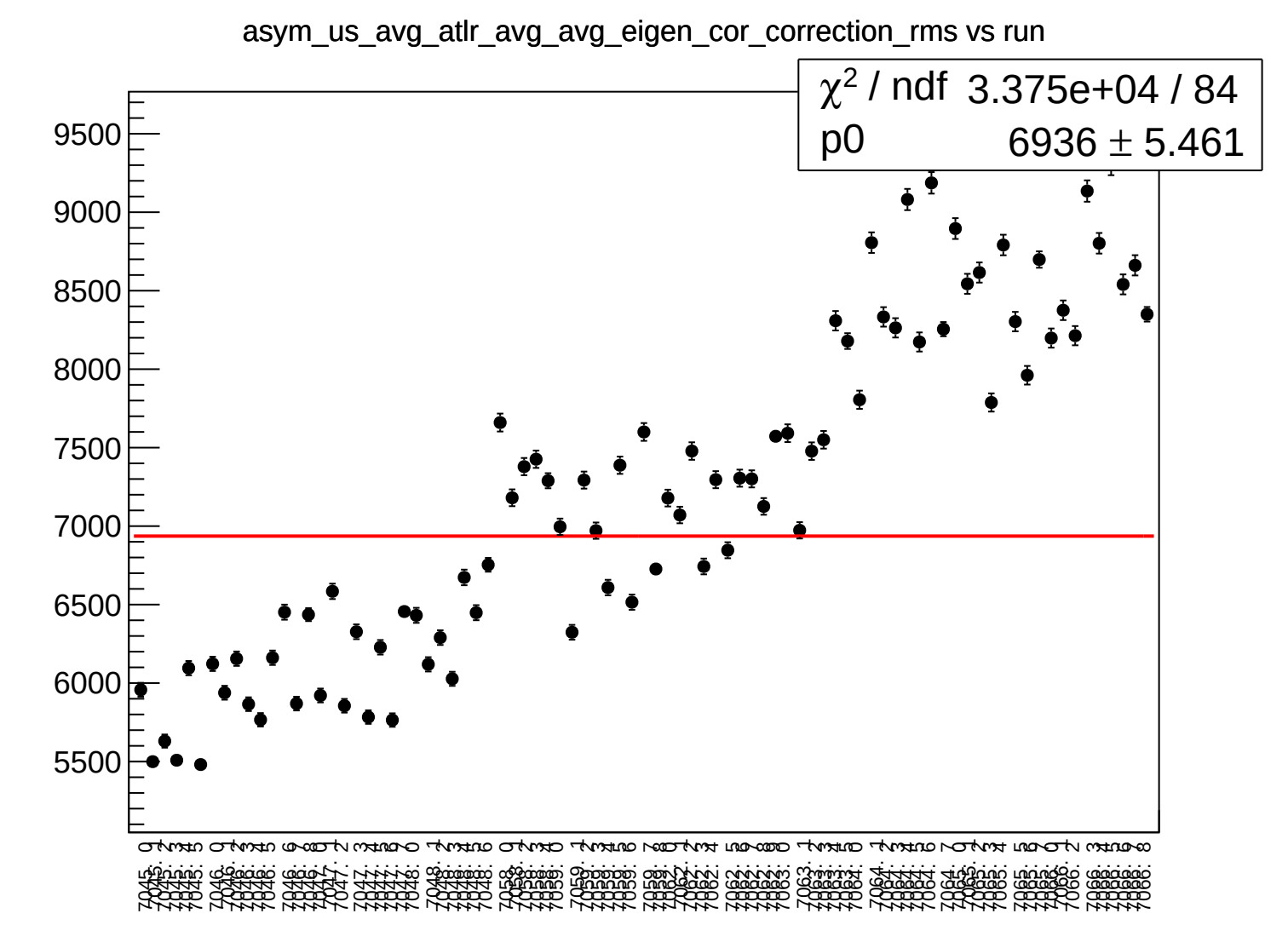

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 3.375e+04 / 84
p0 6936 ± 5.461
9500
9000
8500
8000
7500
7000
6500
6000
5500

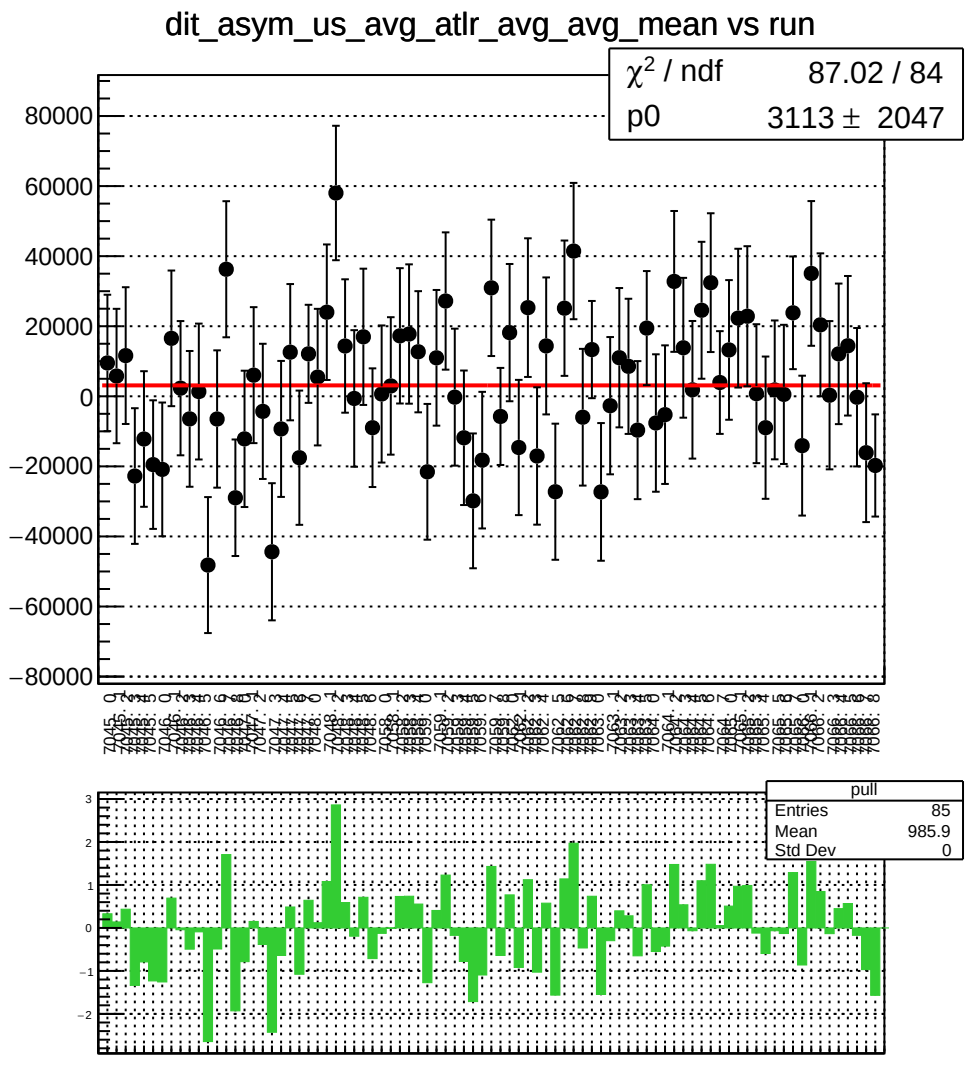

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.92 / 84
p0 4242 ± 1987
pull
Entries 85
Mean 1748
Std Dev 0

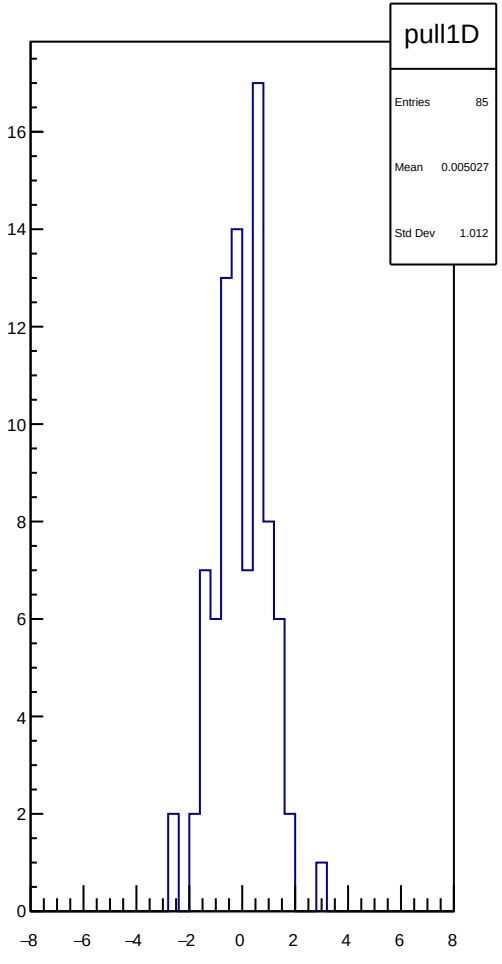

pull1D
Entries 85
Mean 0.003638
Std Dev 1.046

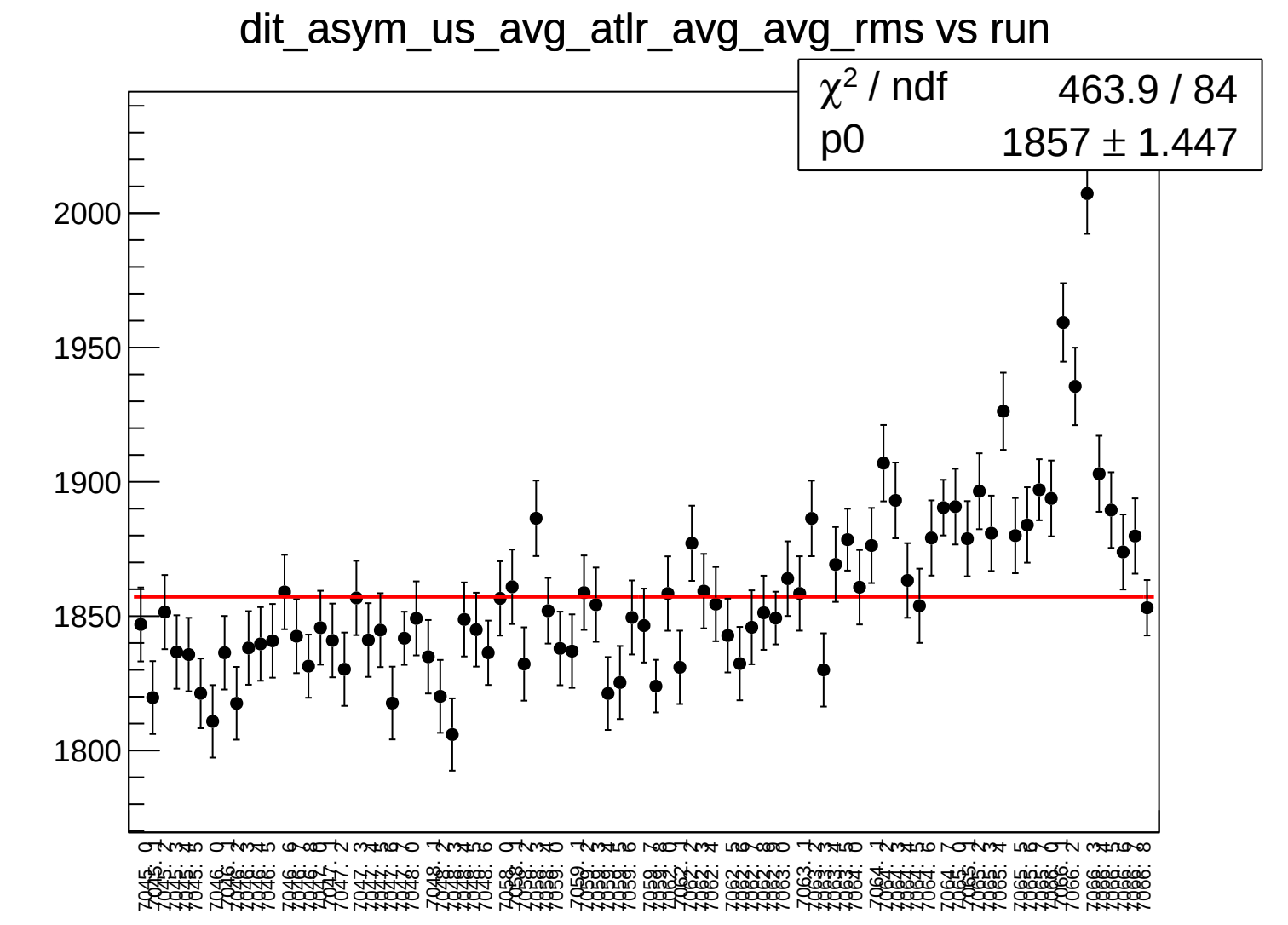

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 129.1 / 84
p0 1803 ± 1.405
1860
1840
1820
1800
1780
1760

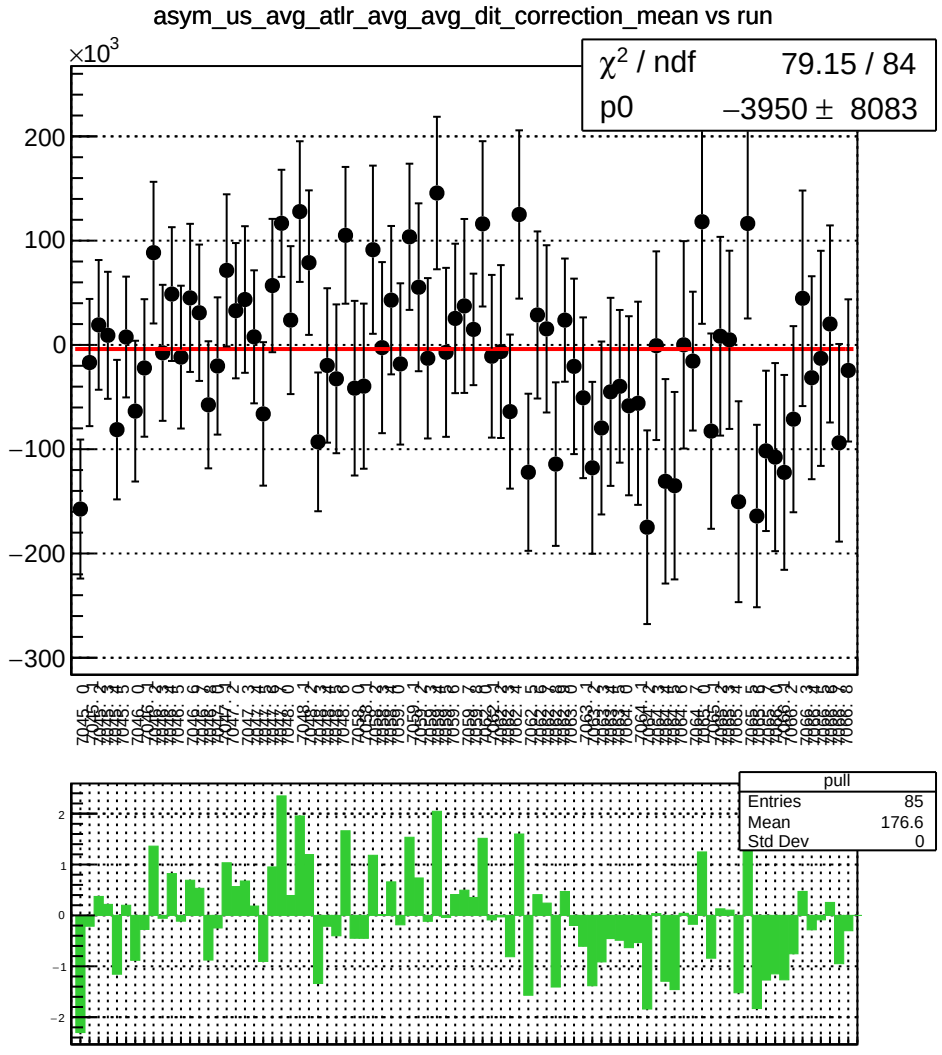

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.53 / 84
p0 −3025 ± 7723
pull
Entries 85
Mean 172.7
Std Dev 0
pull1D
Entries 85
Mean −0.04704
Std Dev 0.9661

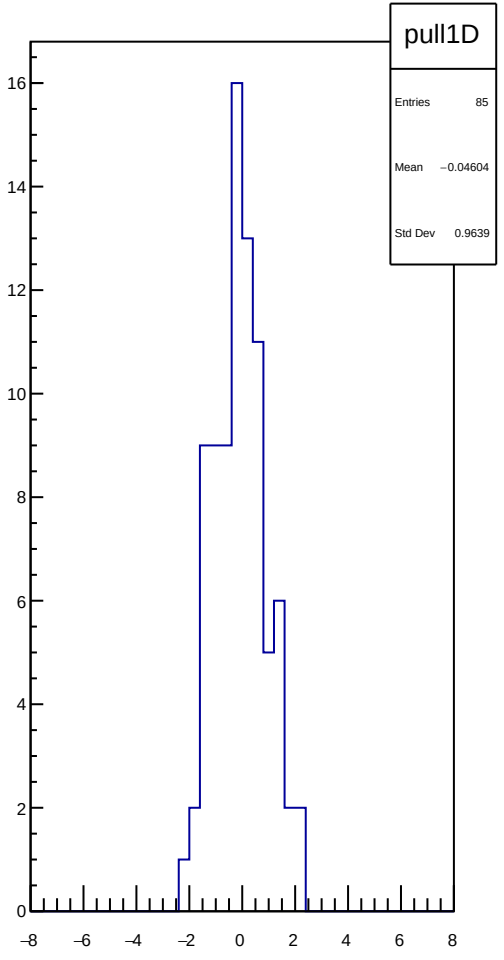

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.375e+04 / 84
p0 6936 ± 5.461
9500
9000
8500
8000
7500
7000
6500
6000
5500

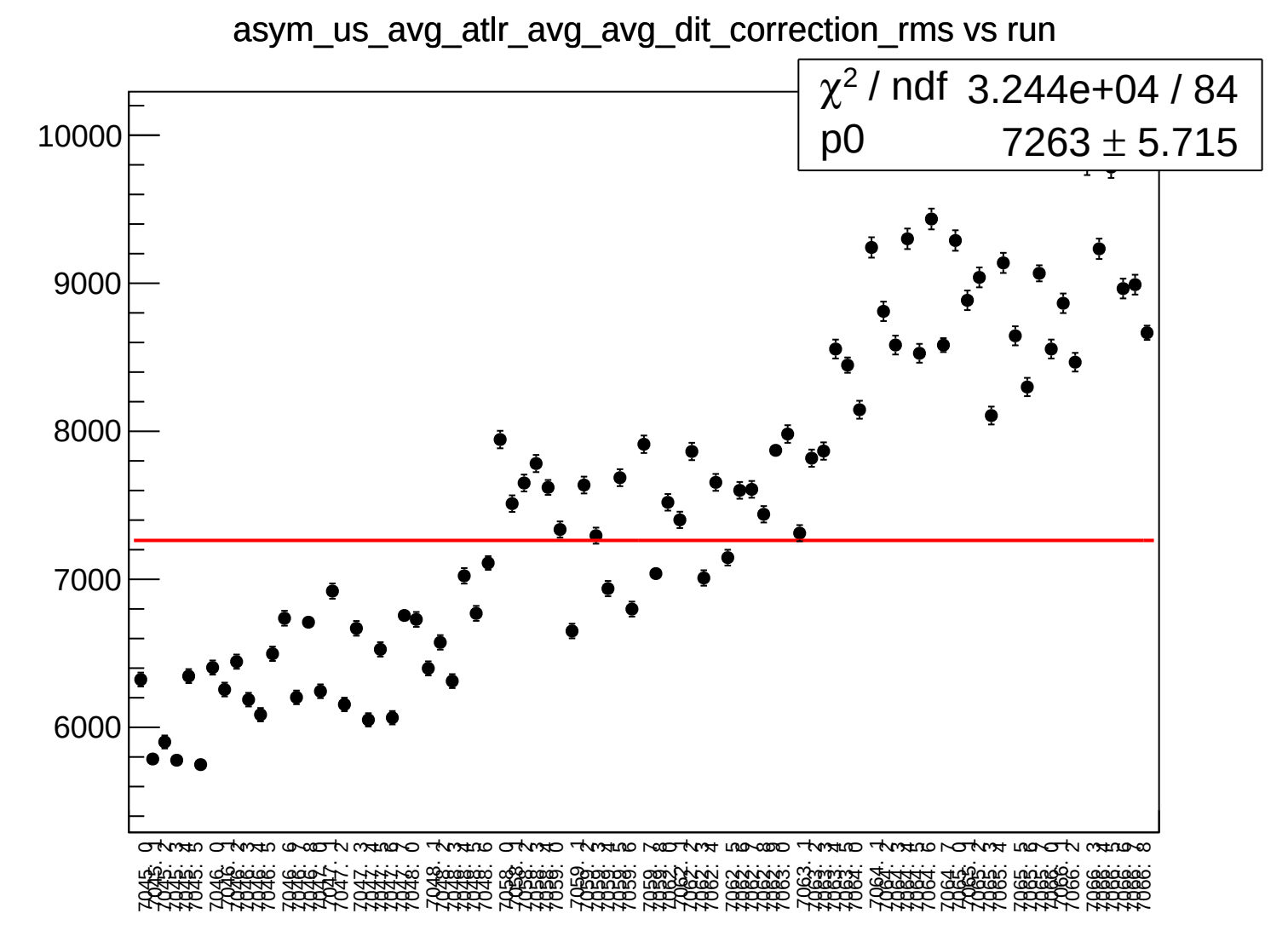

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.02 / 84
p0 3113 ± 2047
pull
Entries 85
Mean 985.9
Std Dev 0

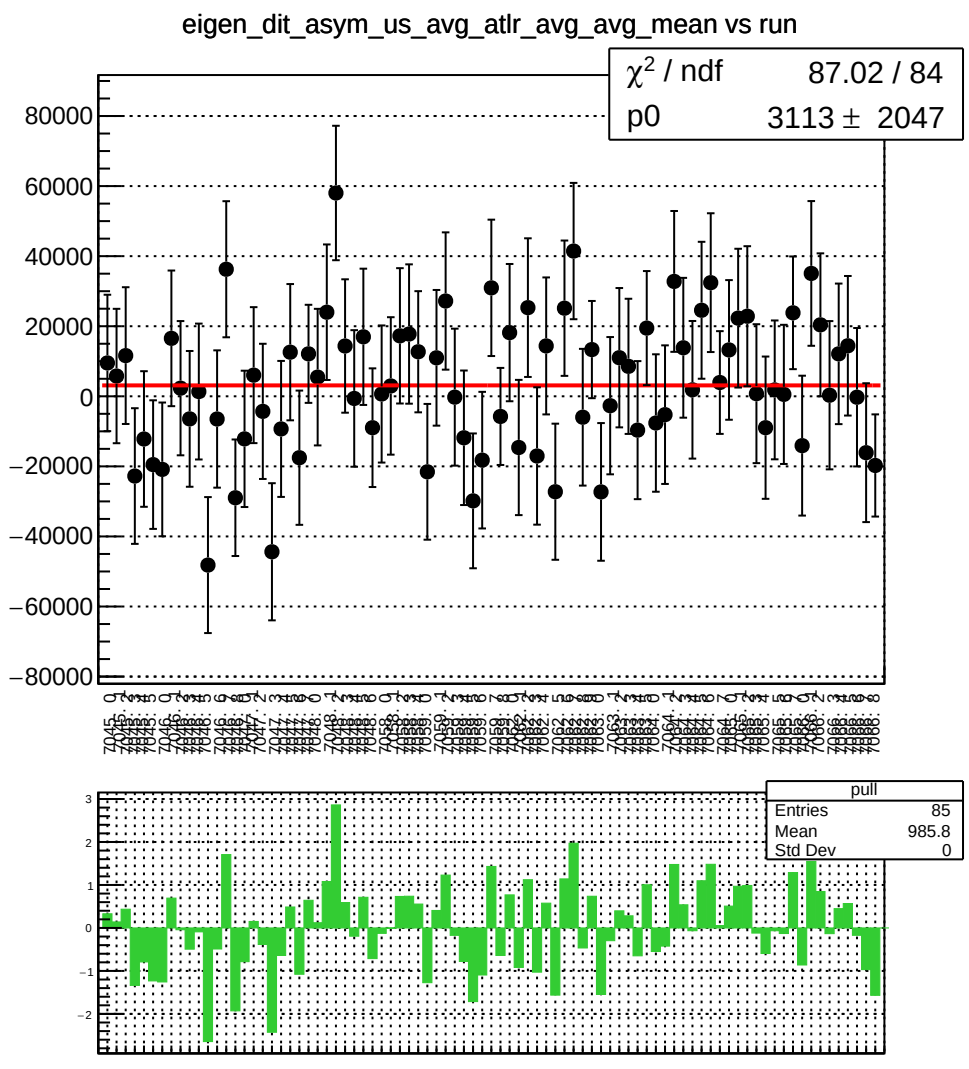

pull1D
Entries 85
Mean 0.005027
Std Dev 1.012

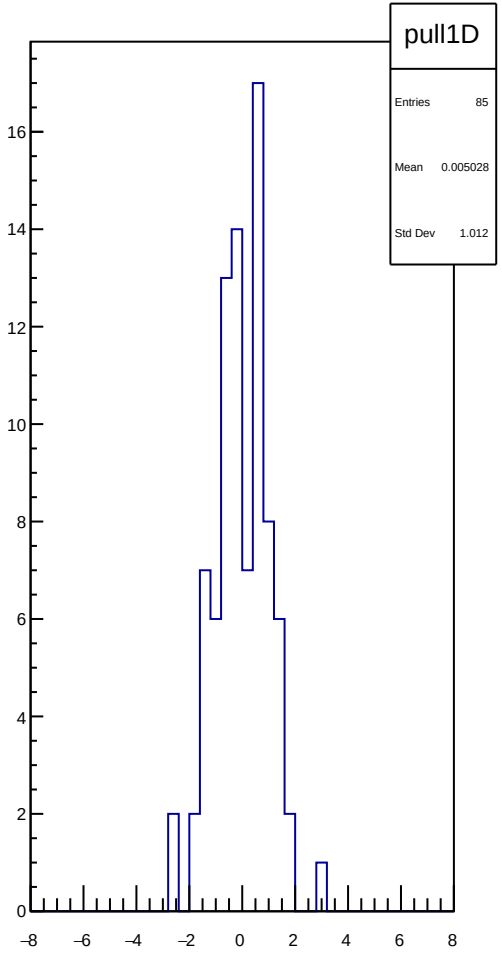

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 463.9 / 84
p0 1857 ± 1.447
2000
1950
1900
1850
1800

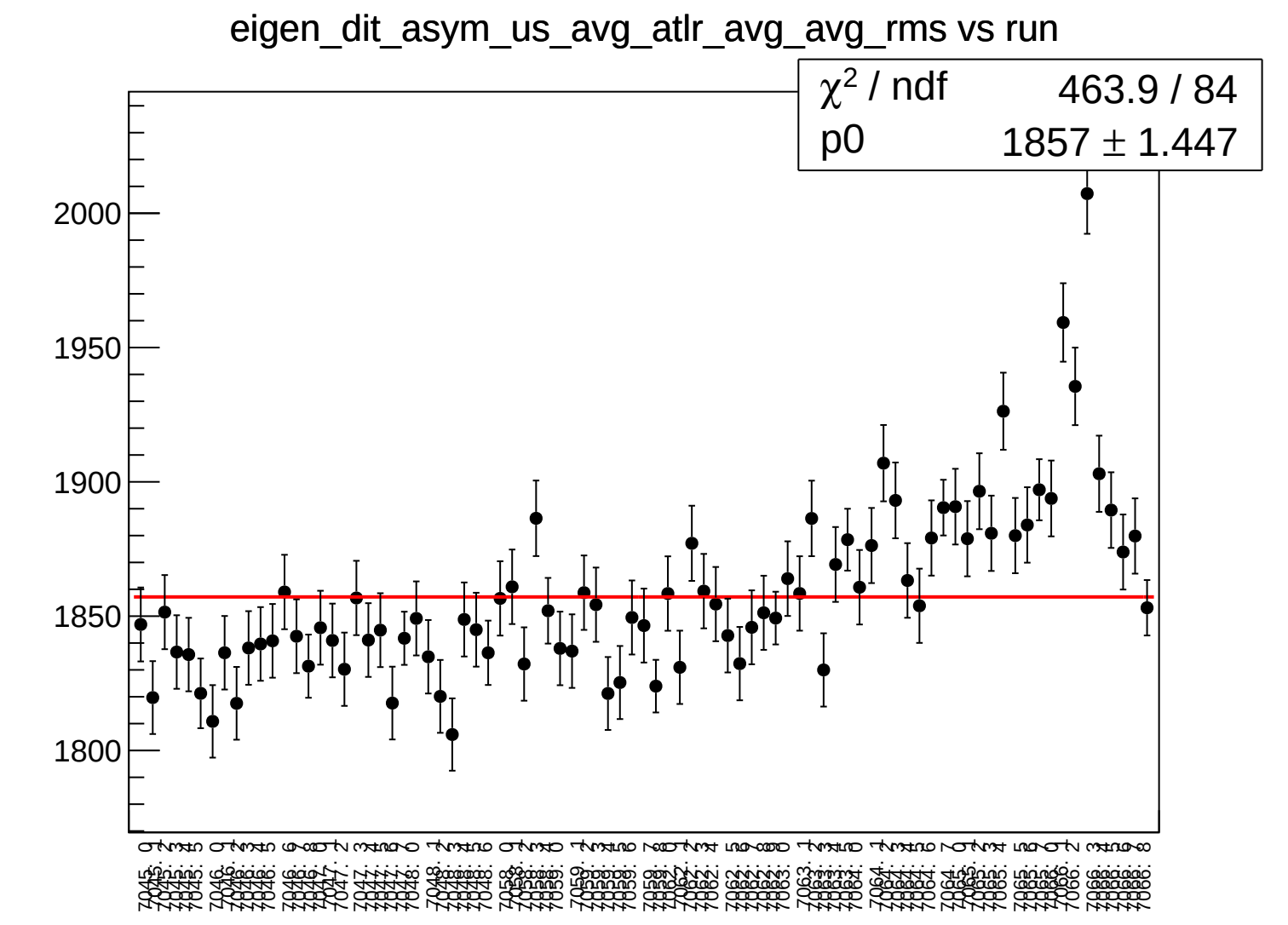

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.15 / 84
p0 −3950 ± 8083
200
100
0
−100
−200
−300
pull
Entries 85
Mean 176.6
Std Dev 0
2
1
0
−1
−2

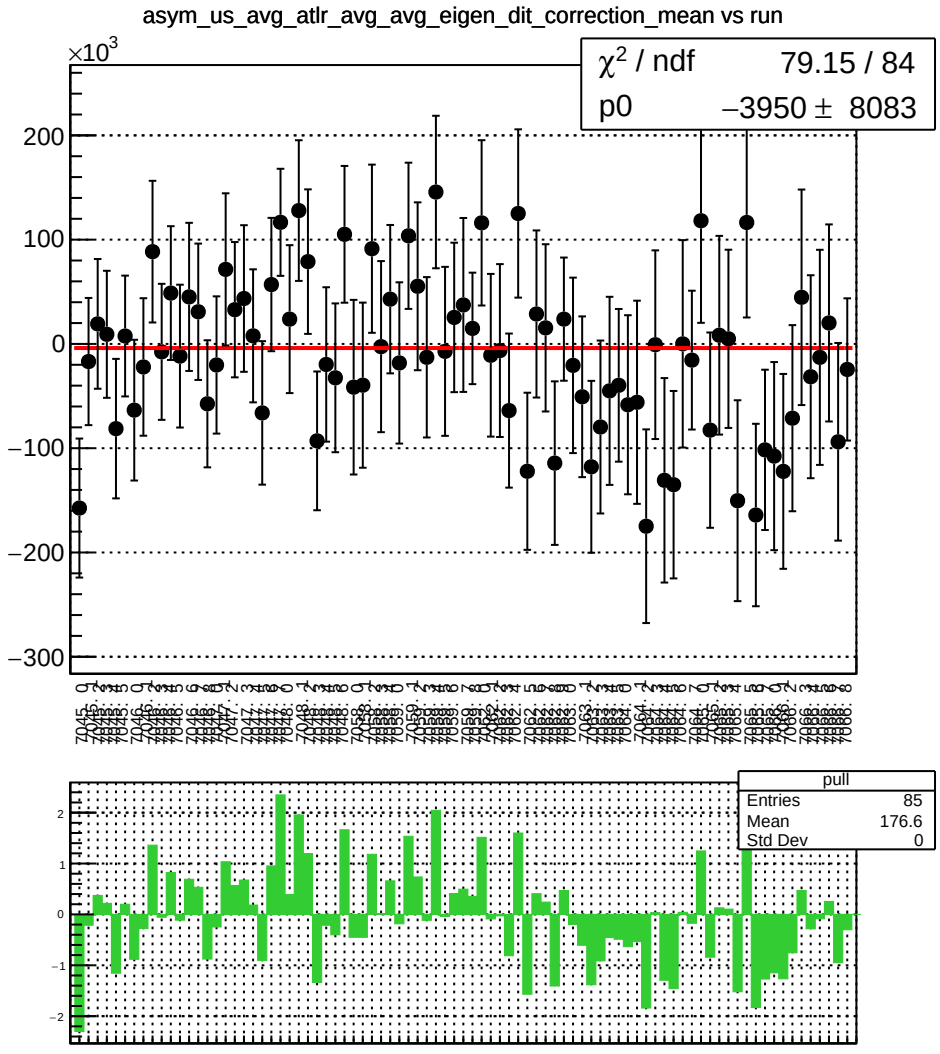

pull1D
Entries 85
Mean −0.04604
Std Dev 0.9639
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

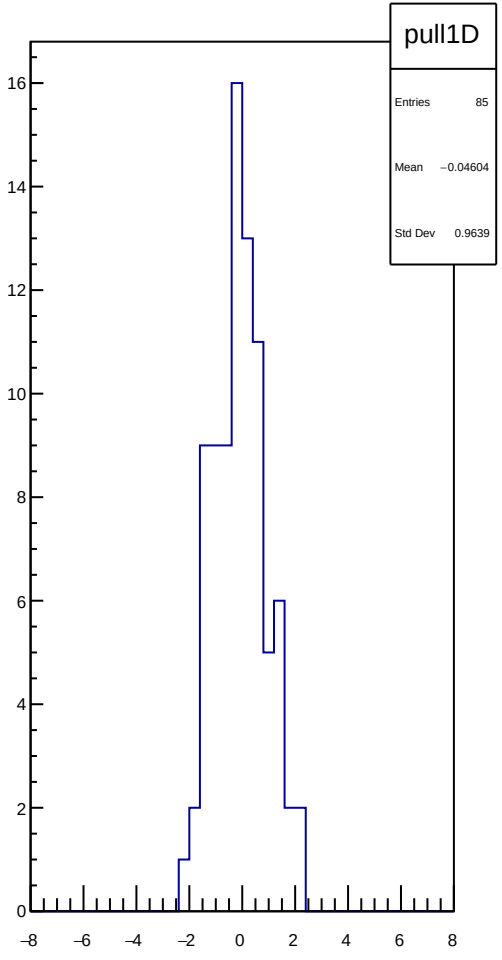

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.244e+04 / 84
p0 7263 ± 5.715
10000
9000
8000
7000
6000

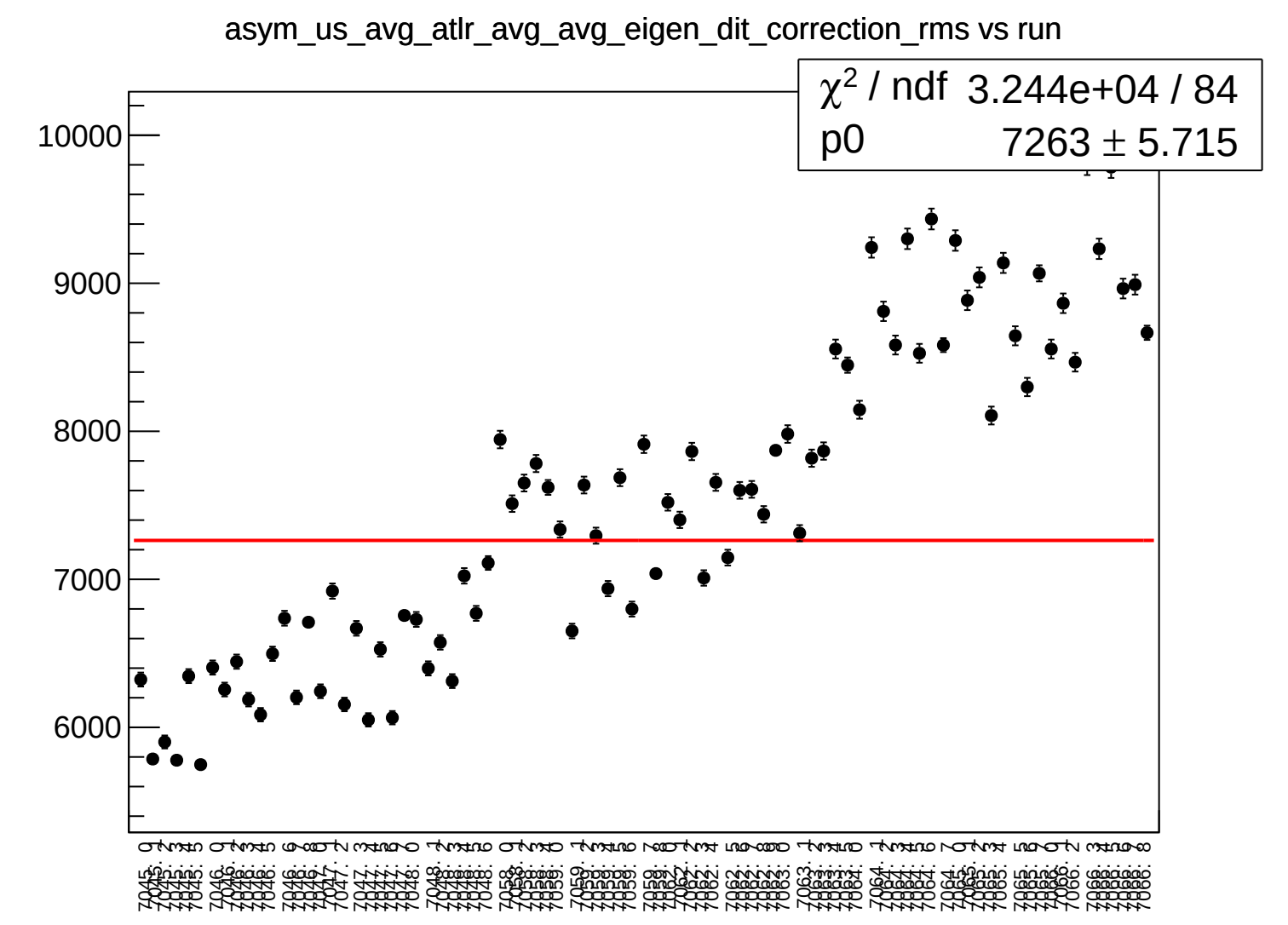

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.02 / 84
p0 3113 ± 2047
pull
Entries 85
Mean 985.8
Std Dev 0

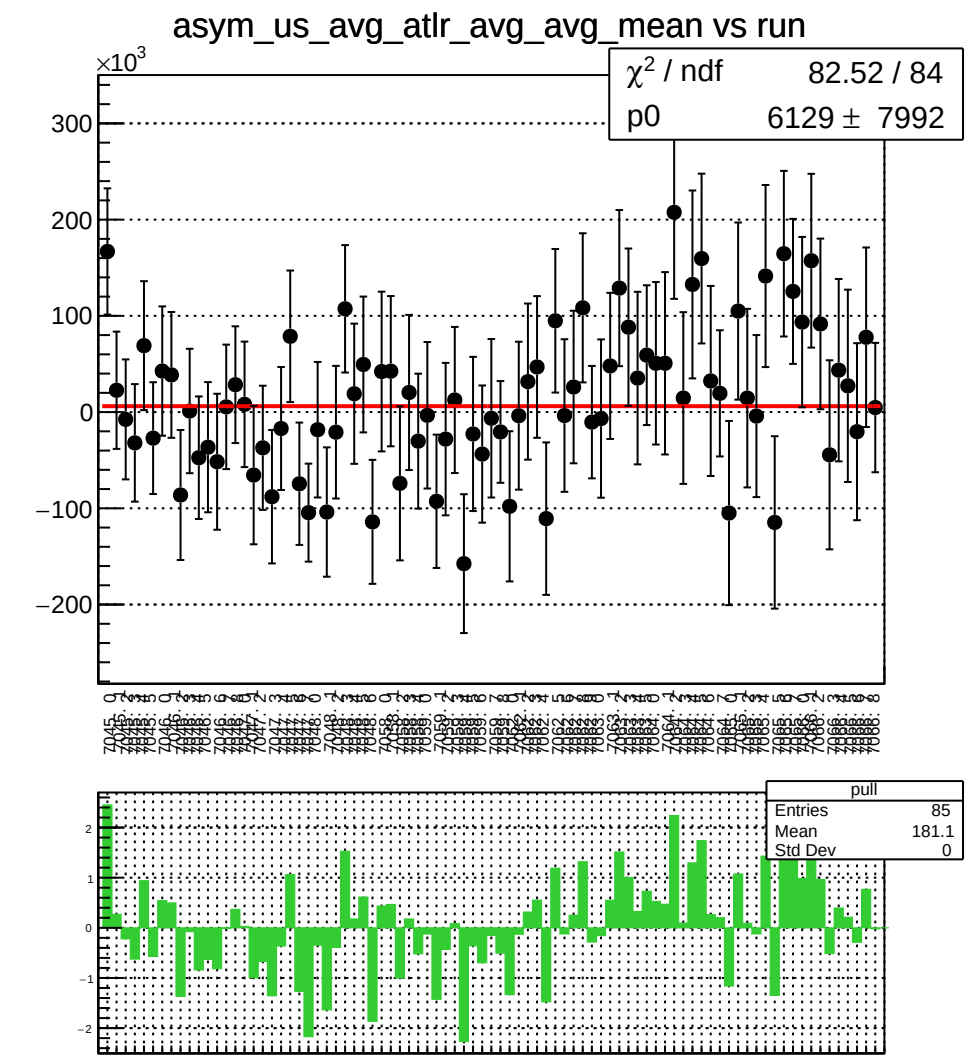

pull1D
Entries 85
Mean 0.005028
Std Dev 1.012

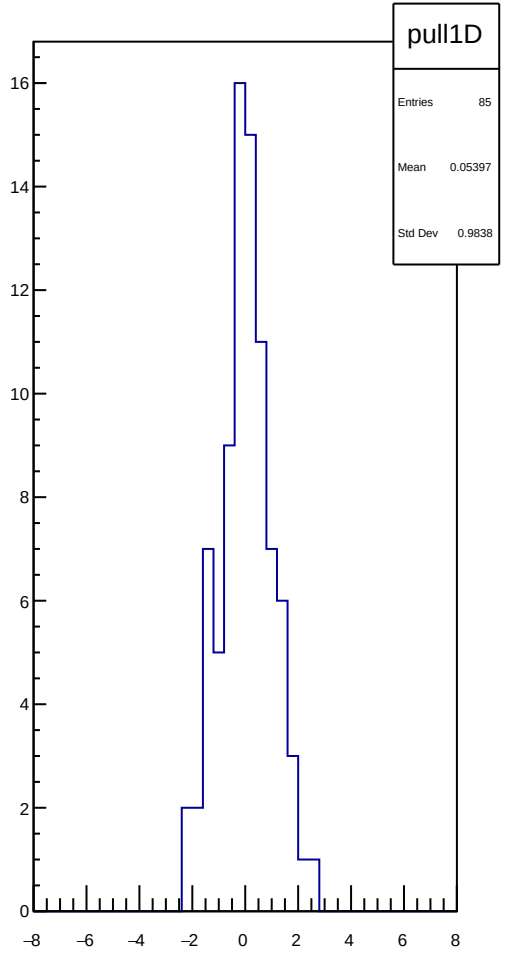

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 463.9 / 84
p0 1857 ± 1.447
2000
1950
1900
1850
1800

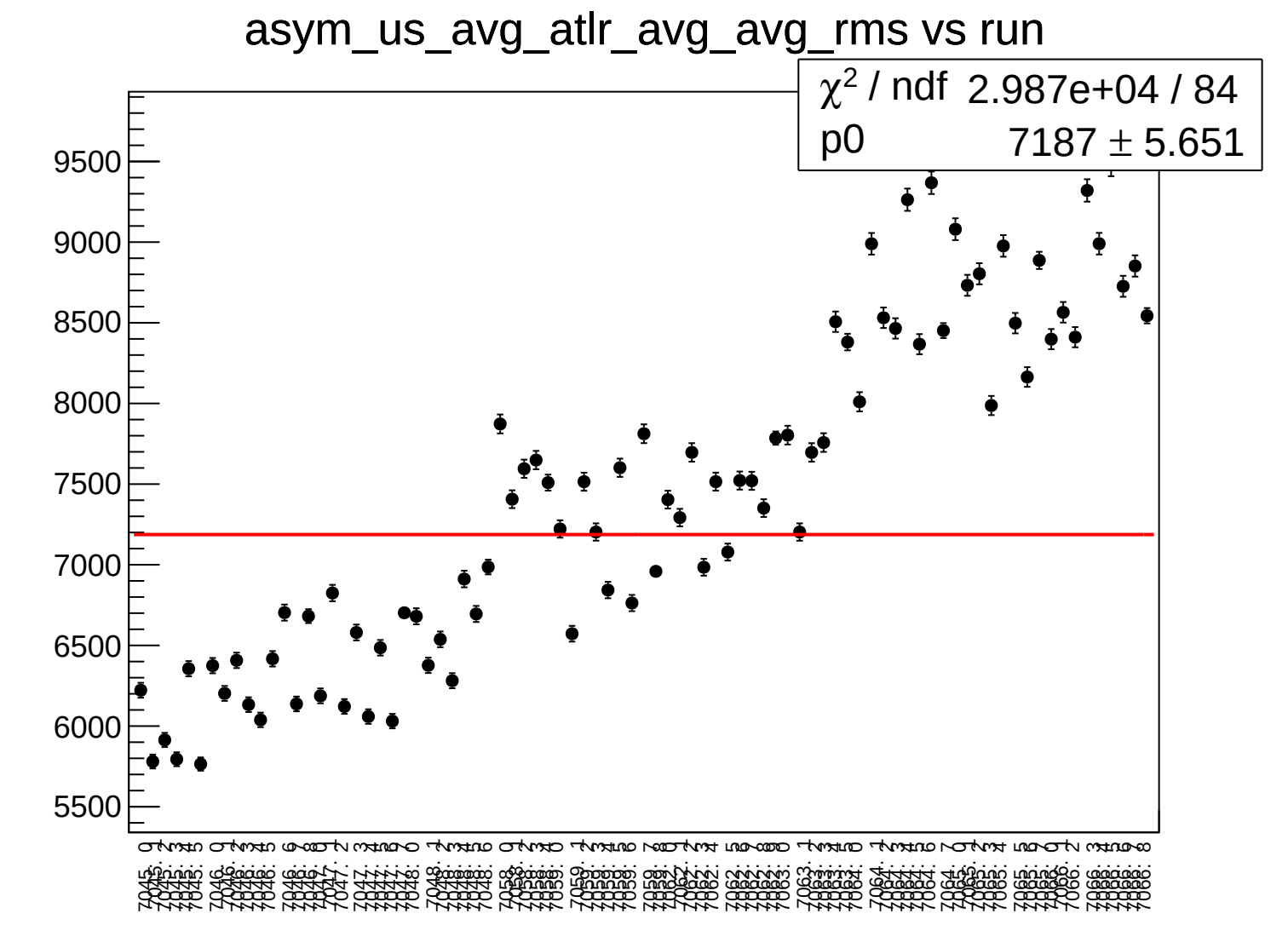

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.15 / 84
p0 −3950 ± 8083
pull
Entries 85
Mean 176.6
Std Dev 0

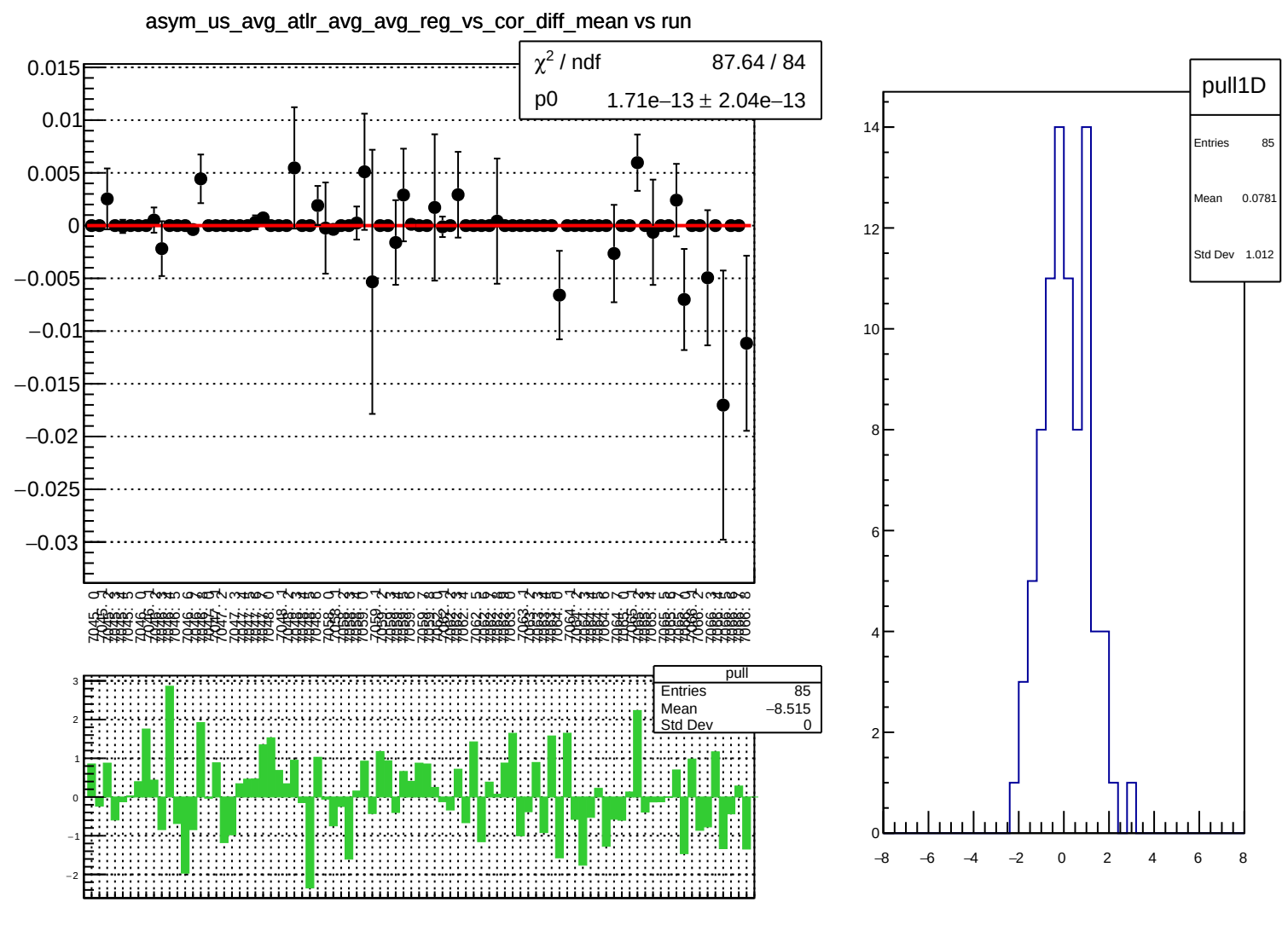

pull1D
Entries 85
Mean −0.04604
Std Dev 0.9639

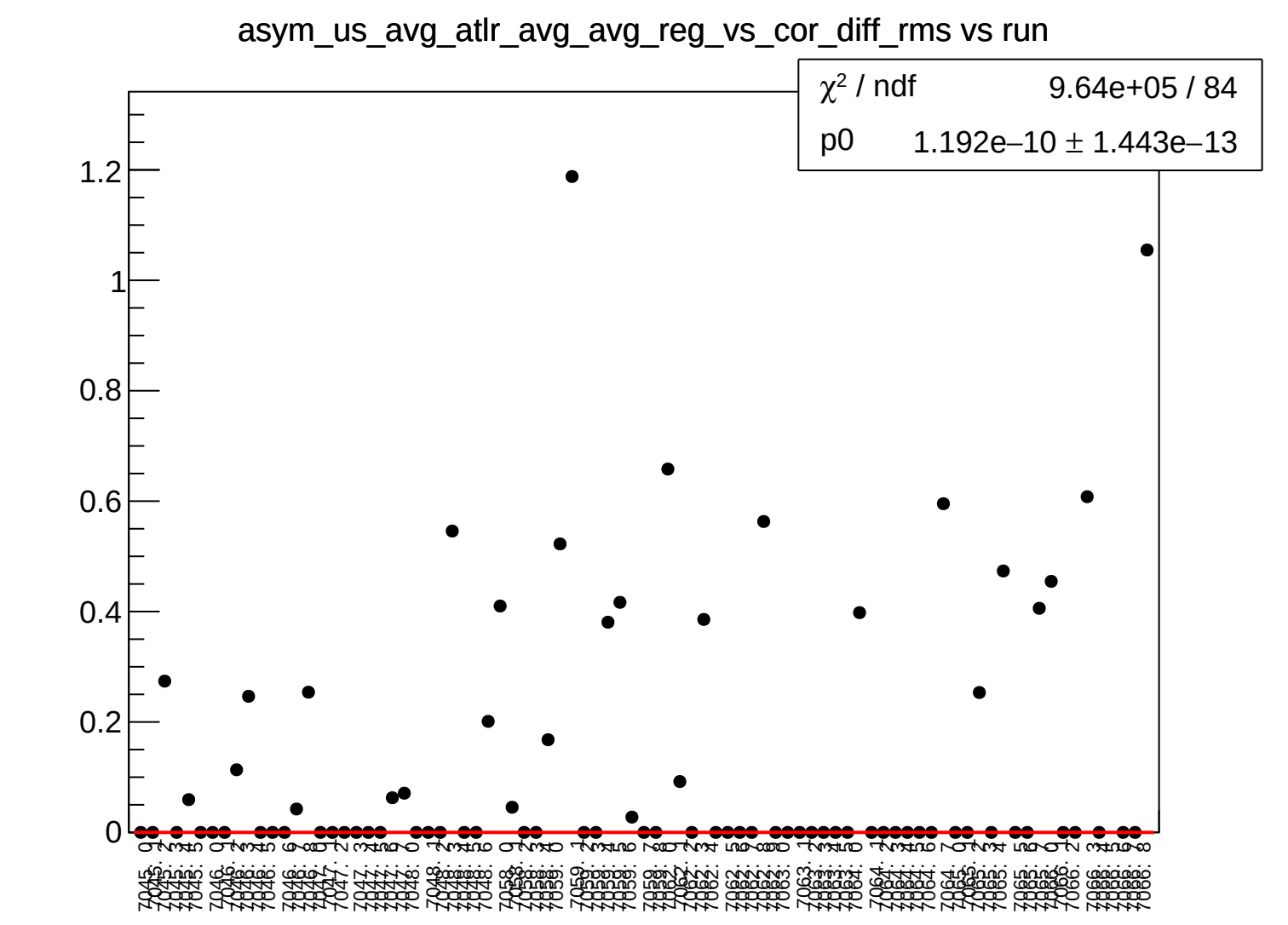

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.244e+04 / 84
p0 7263 ± 5.715
10000
9000
8000
7000
6000

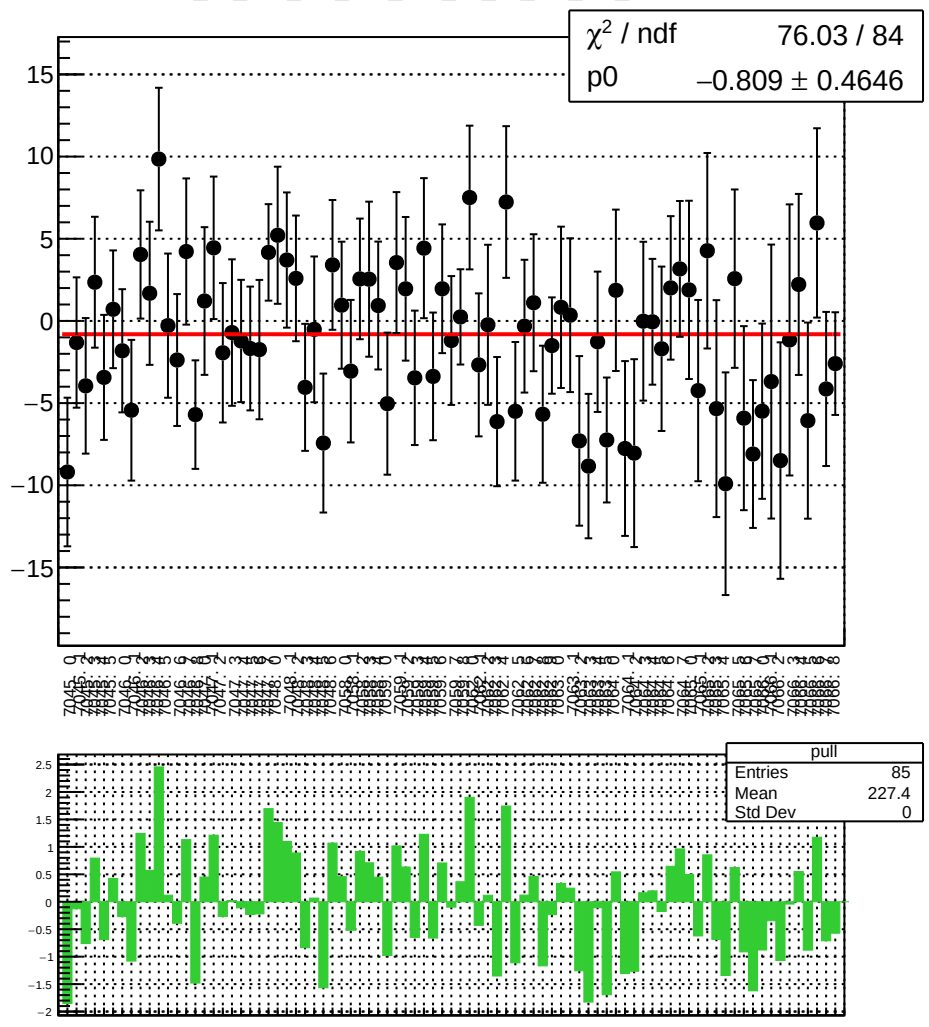

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 82.52 / 84
p0 6129 ± 7992
×10³
300
200
100
0
−100
−200
pull
Entries 85
Mean 181.1
Std Dev 0
2
1
0
−1
−2

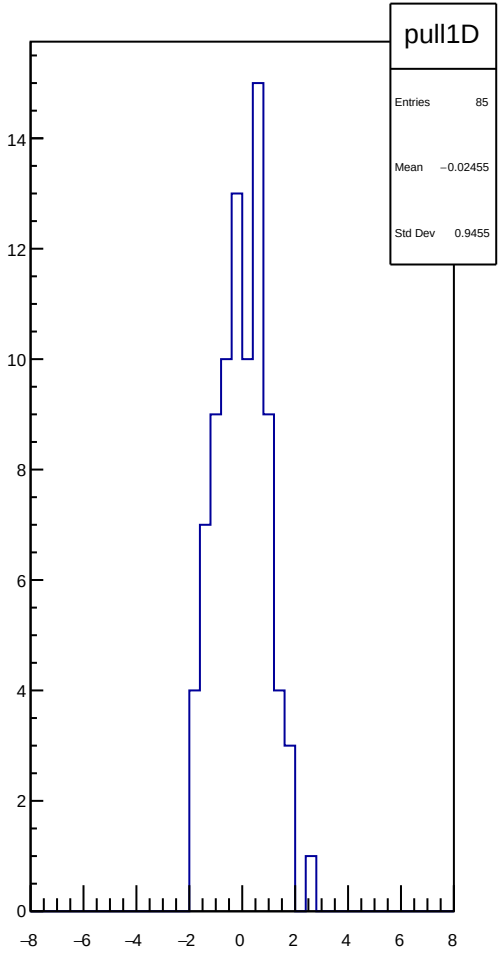

pull1D
Entries 85
Mean 0.05397
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

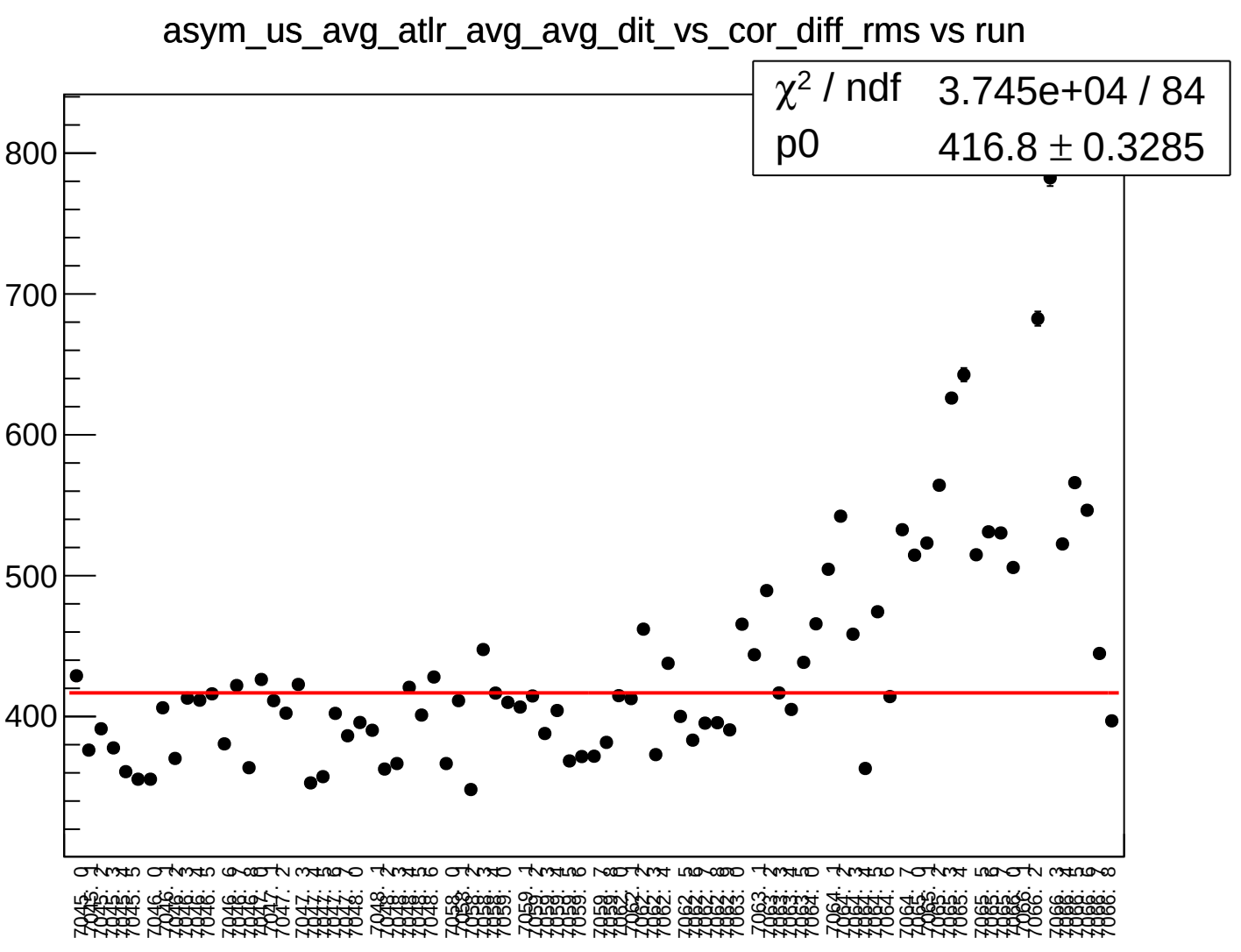

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2.987e+04 / 84
p0 7187 ± 5.651
9500
9000
8500
8000
7500
7000
6500
6000
5500

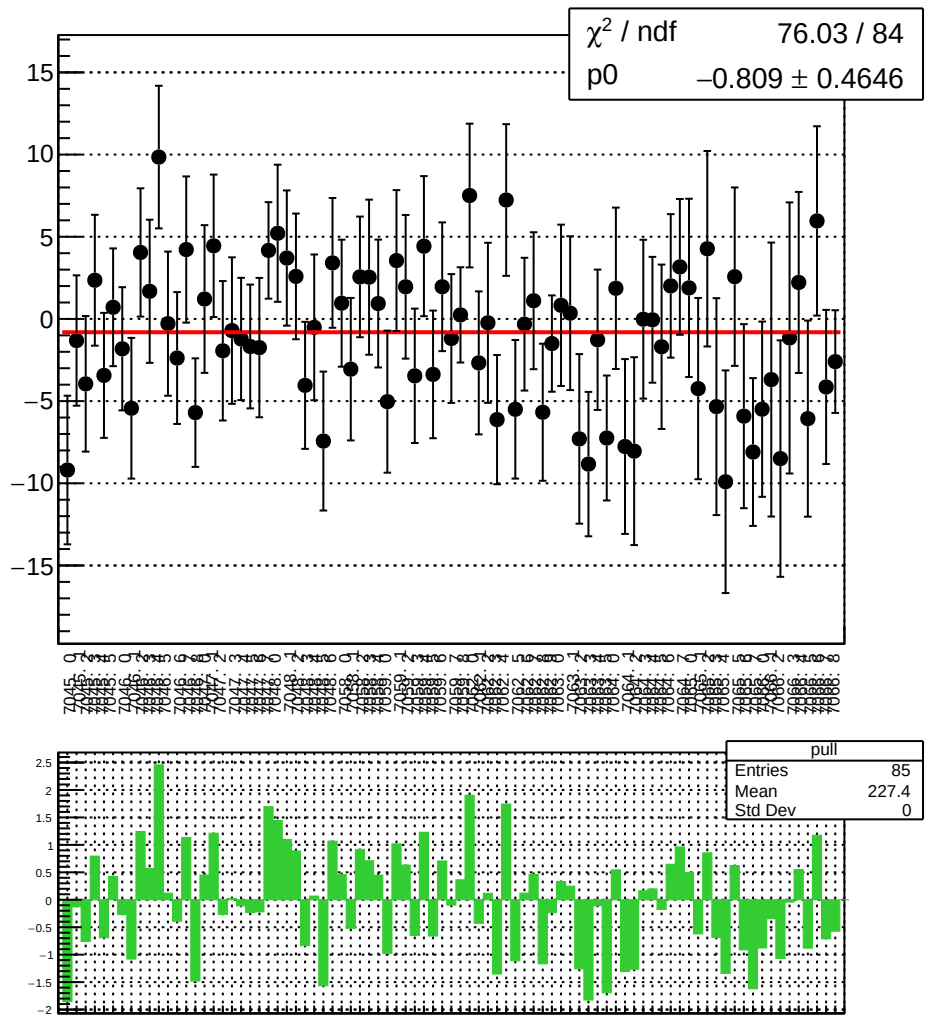

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.64 / 84
p0 1.71e−13 ± 2.04e−13
pull
Entries 85
Mean −8.515
Std Dev 0
pull1D
Entries 85
Mean 0.0781
Std Dev 1.012

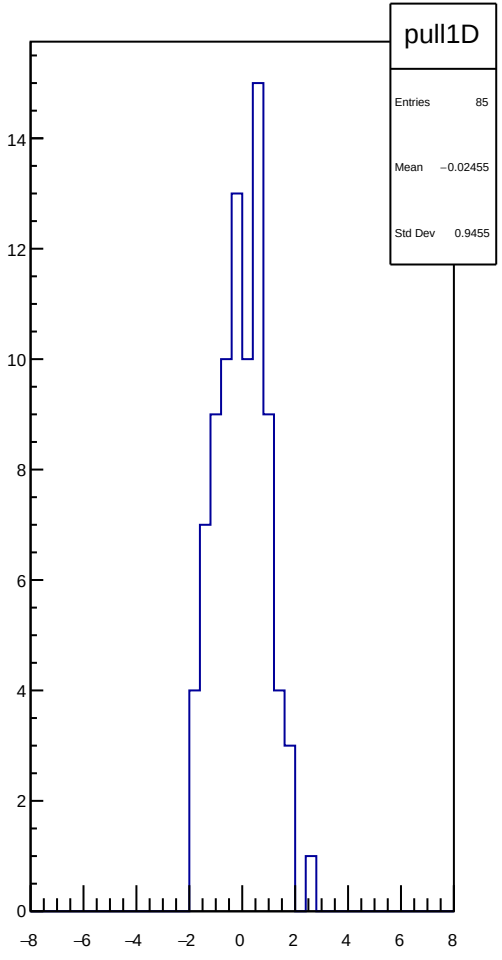

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.64e+05 / 84
p0 1.192e−10 ± 1.443e−13
1.2
1
0.8
0.6
0.4
0.2
0

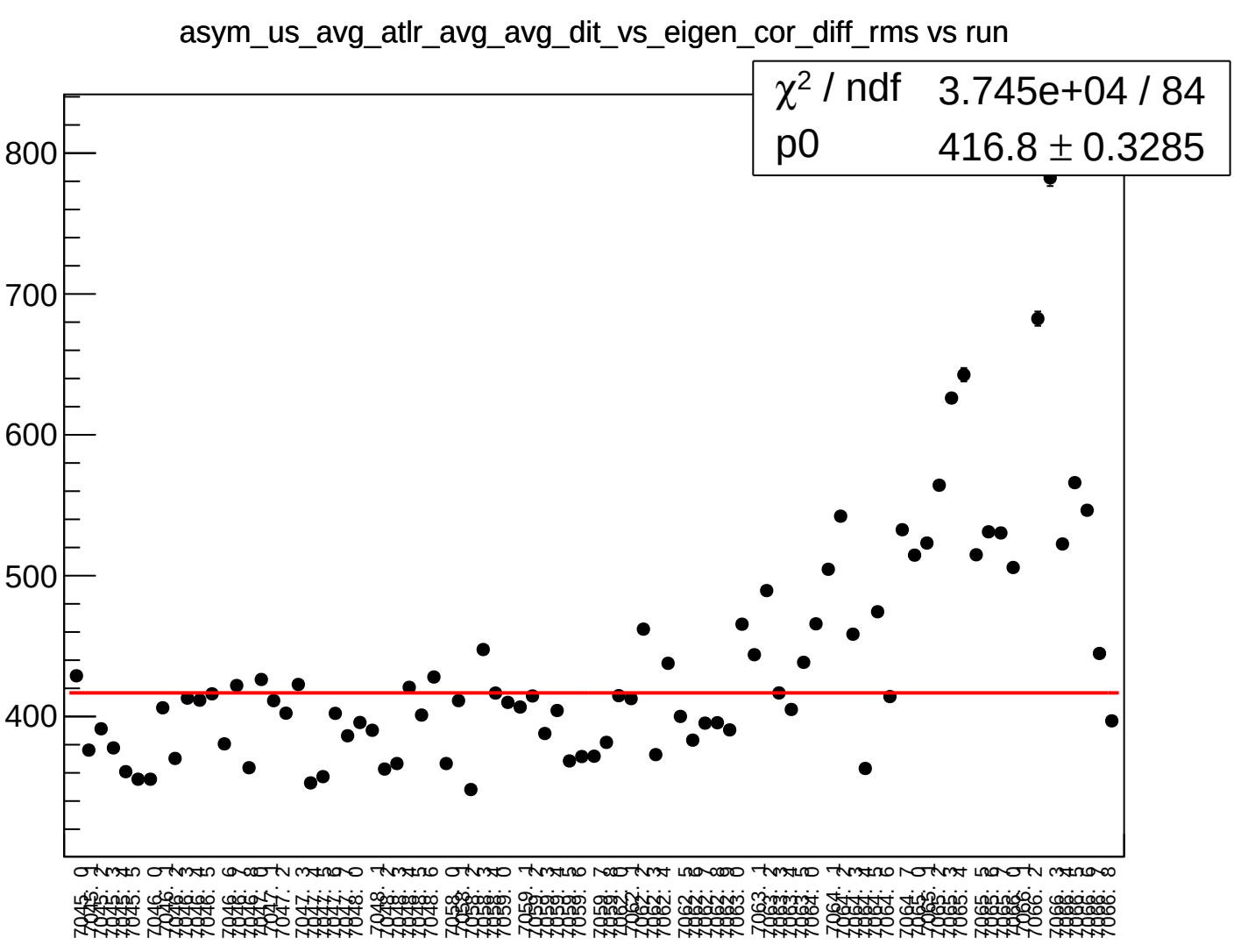

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.03 / 84
p0 −0.809 ± 0.4646
pull
Entries 85
Mean 227.4
Std Dev 0

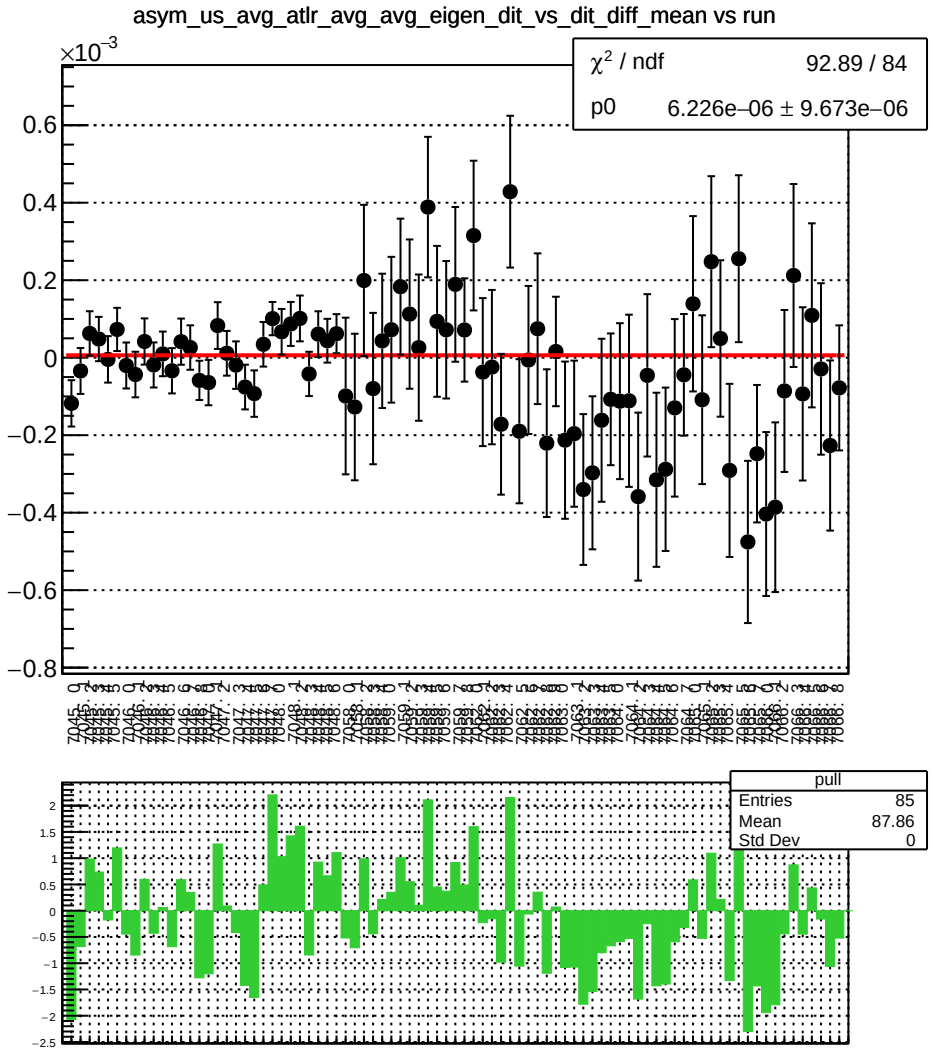

pull1D
Entries 85
Mean −0.02455
Std Dev 0.9455

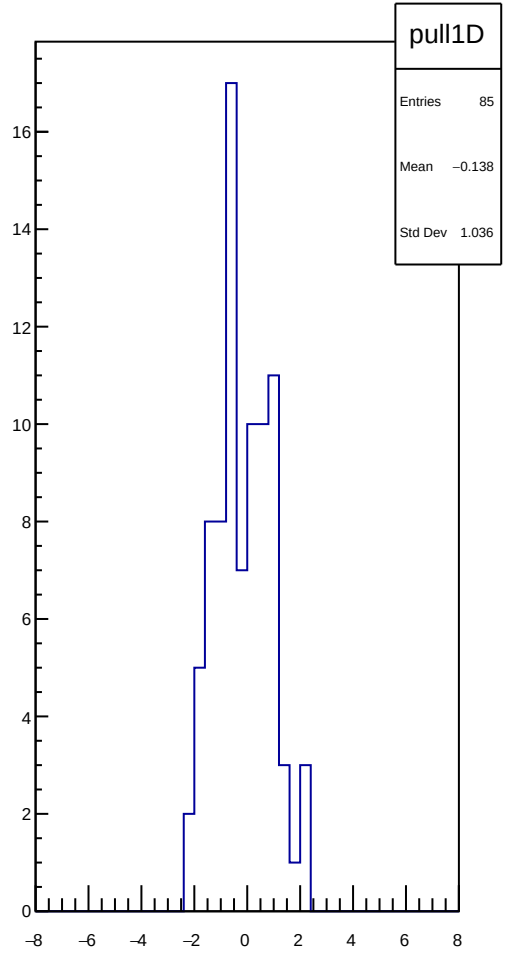

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.745e+04 / 84
p0 416.8 ± 0.3285
800
700
600
500
400

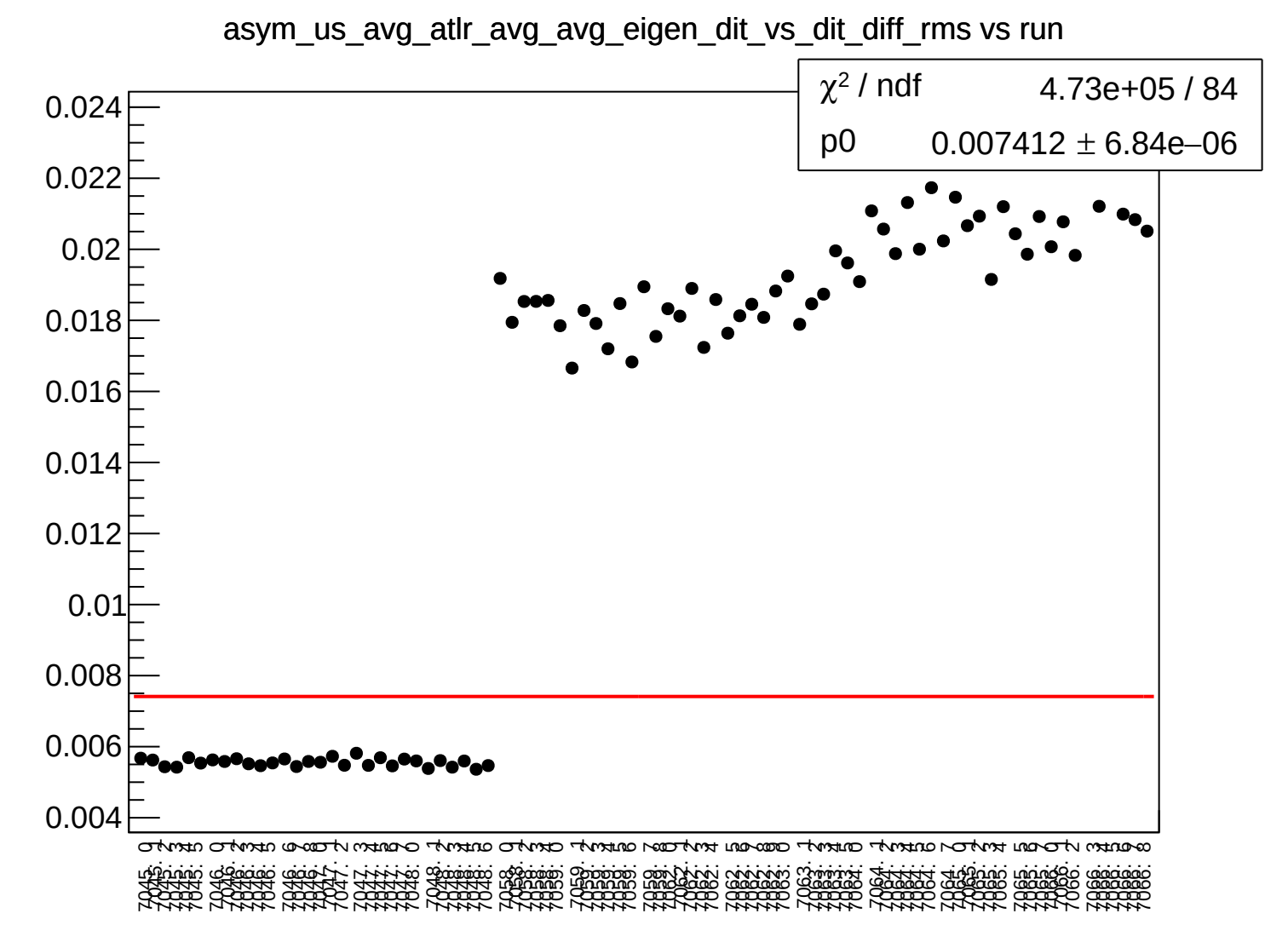

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.03 / 84
p0 −0.809 ± 0.4646
pull
Entries 85
Mean 227.4
Std Dev 0

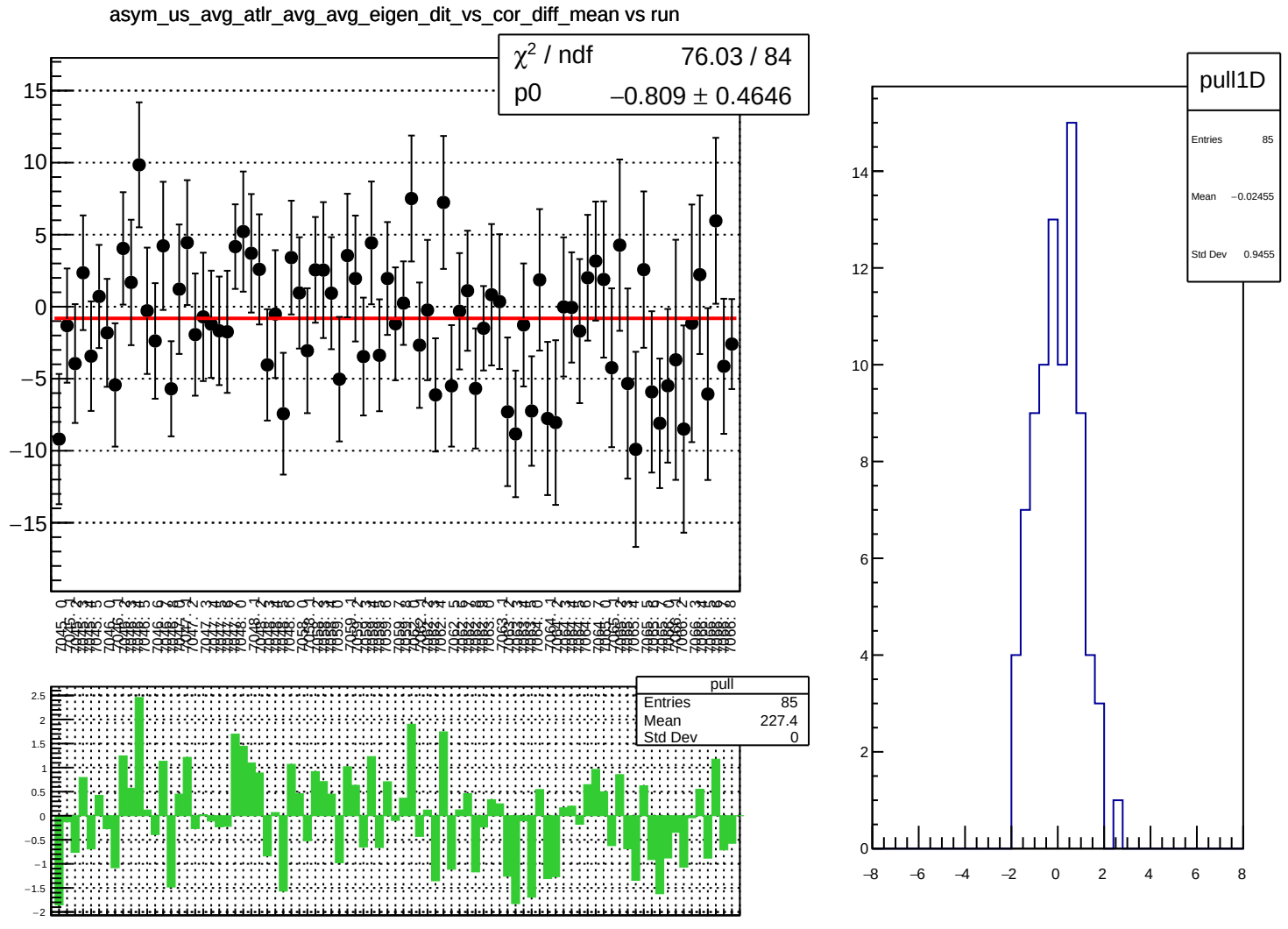

pull1D
Entries 85
Mean −0.02455
Std Dev 0.9455

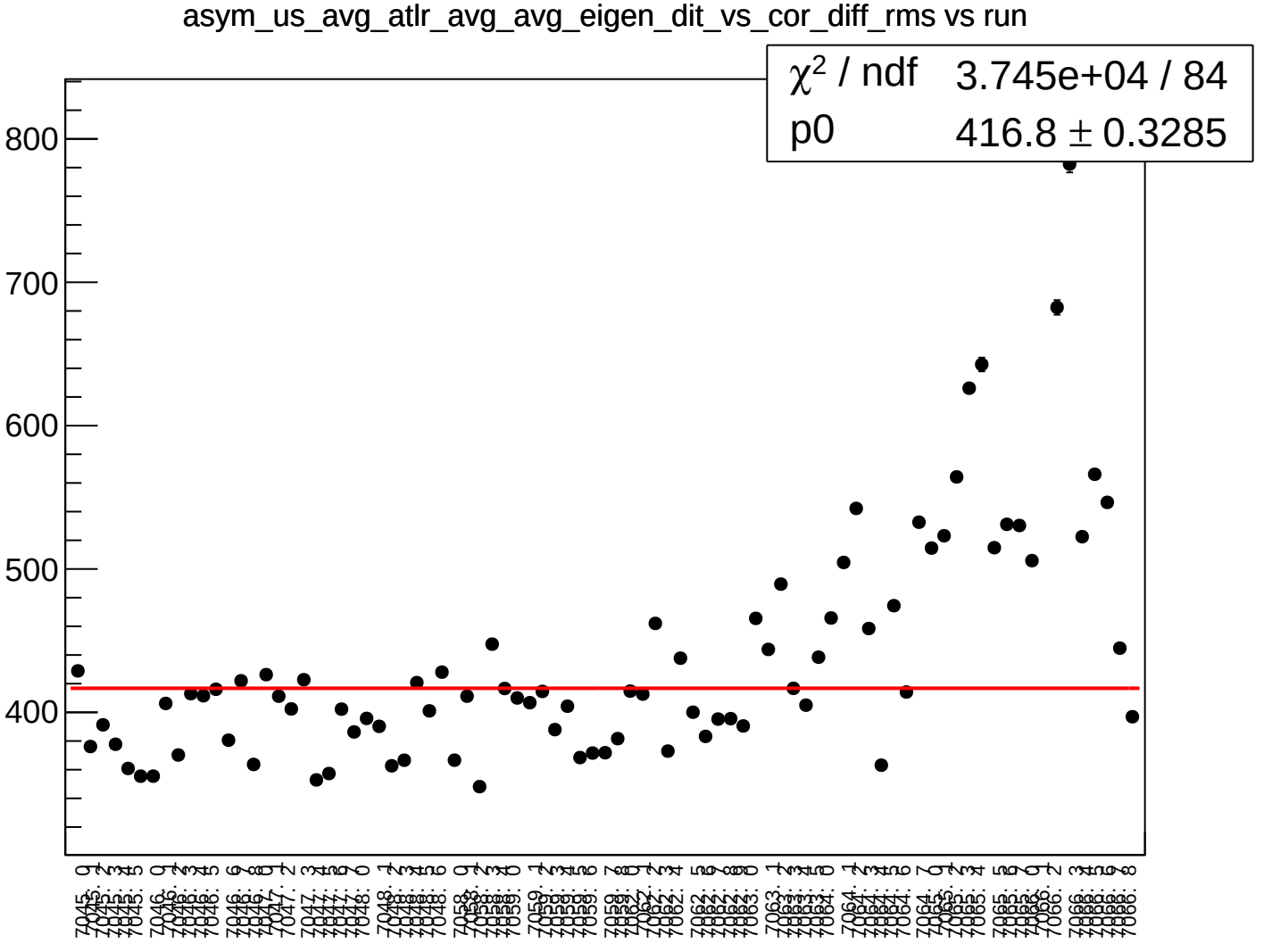

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.745e+04 / 84
p0 416.8 ± 0.3285
800
700
600
500
400

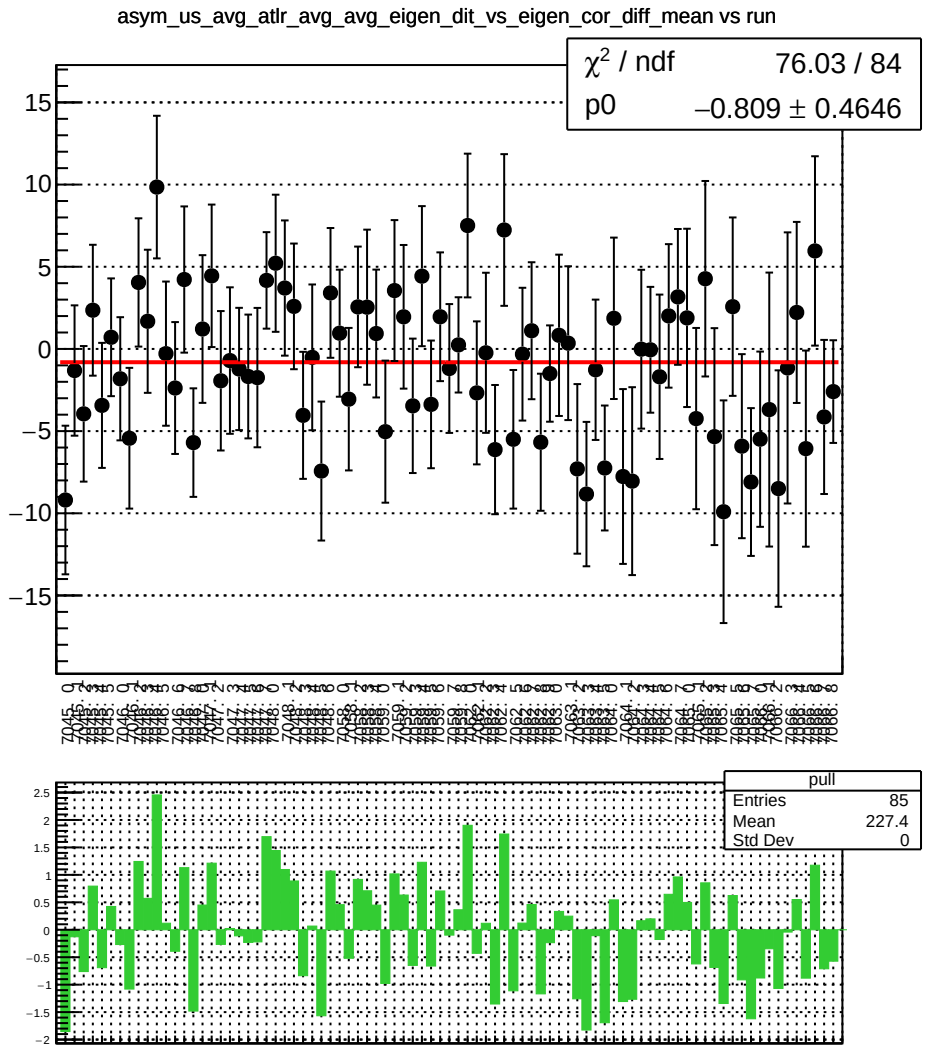

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.89 / 84
p0 6.226e−06 ± 9.673e−06
pull
Entries 85
Mean 87.86
Std Dev 0

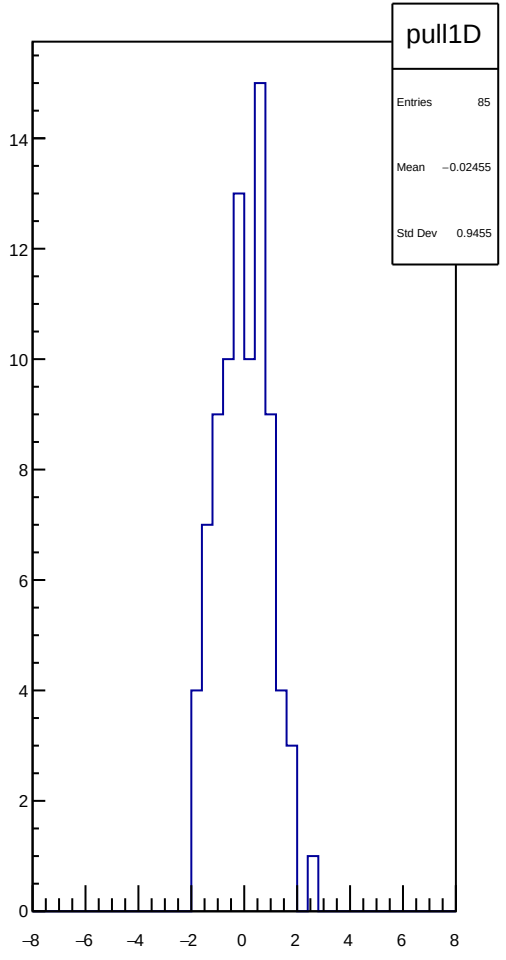

pull1D
Entries 85
Mean −0.138
Std Dev 1.036

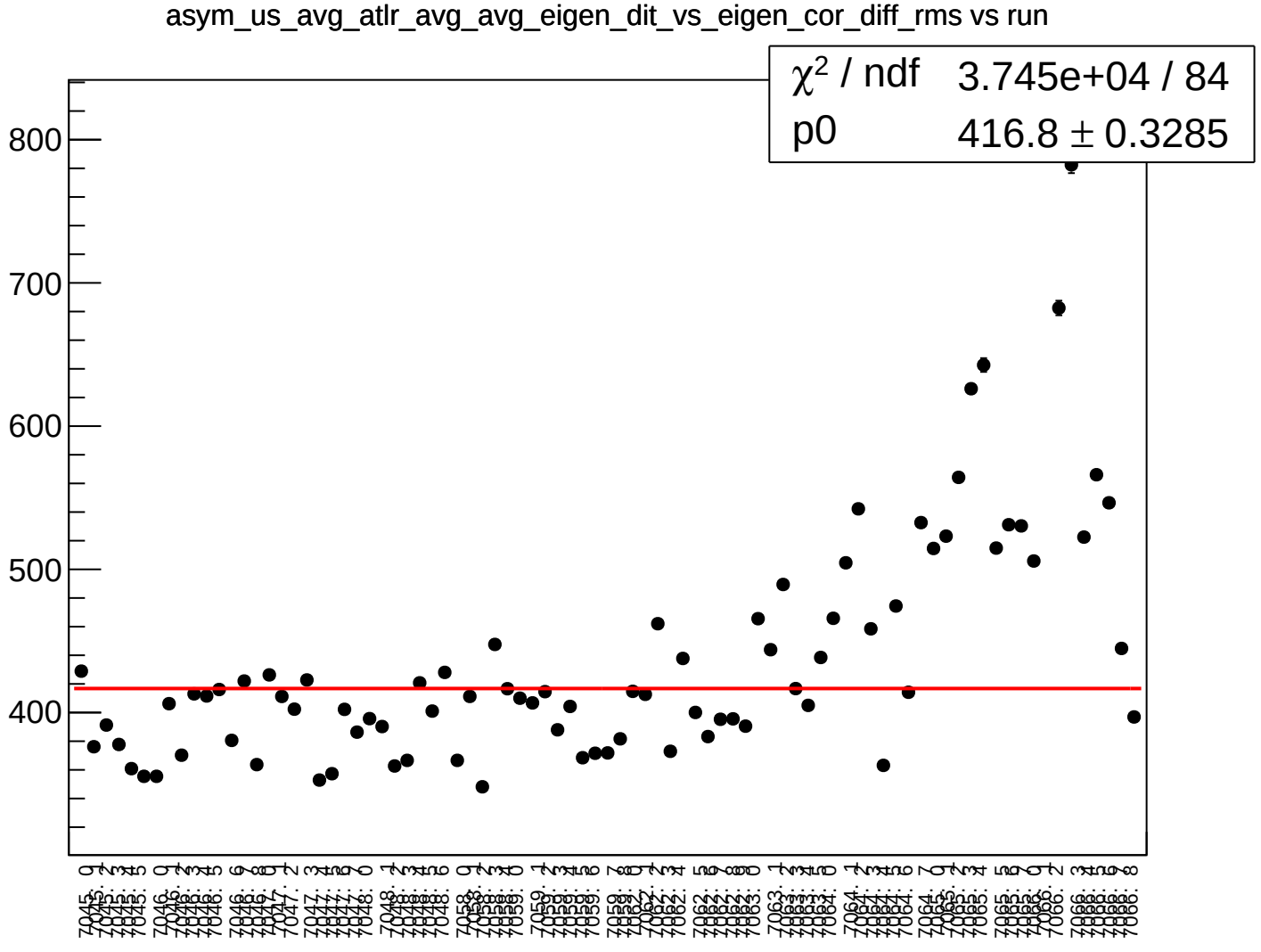

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.73e+05 / 84
p0 0.007412 ± 6.84e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

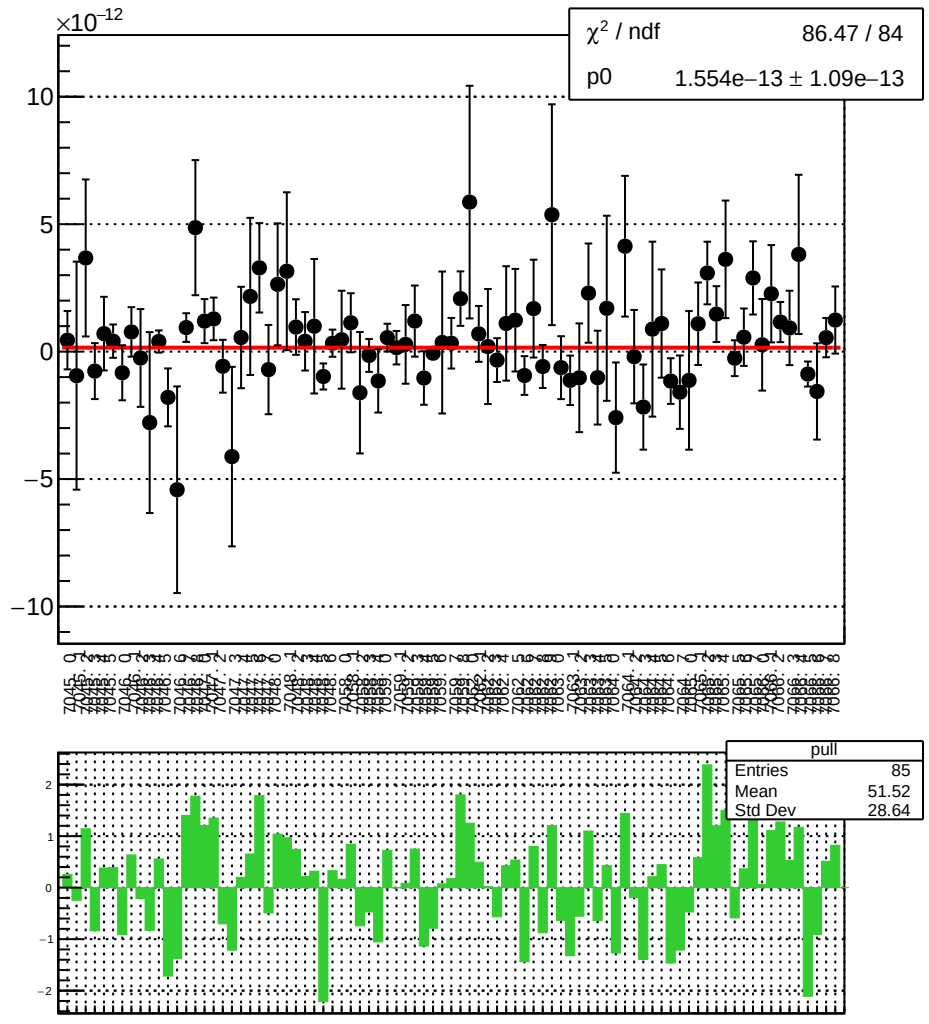

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.03 / 84
p0 −0.809 ± 0.4646
pull
Entries 85
Mean 227.4
Std Dev 0
pull1D
Entries 85
Mean −0.02455
Std Dev 0.9455

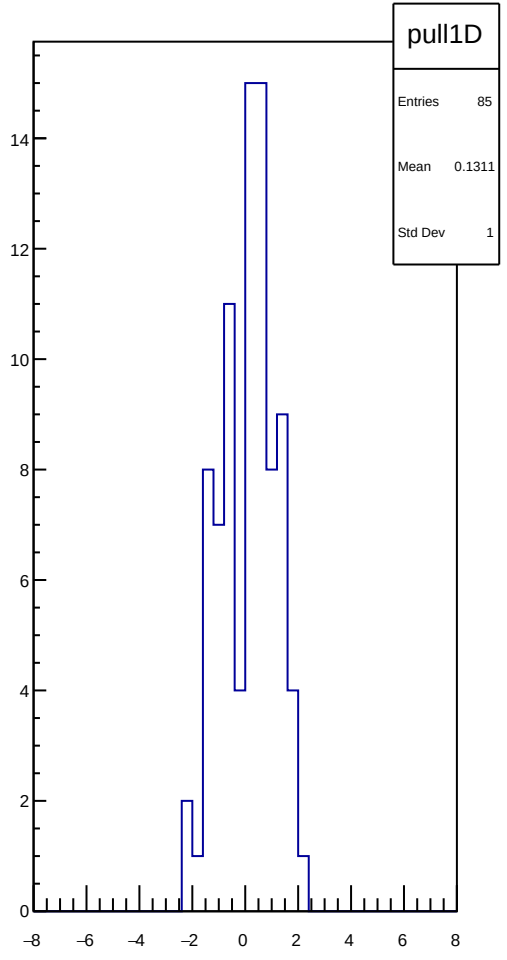

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.745e+04 / 84
p0 416.8 ± 0.3285
800
700
600
500
400

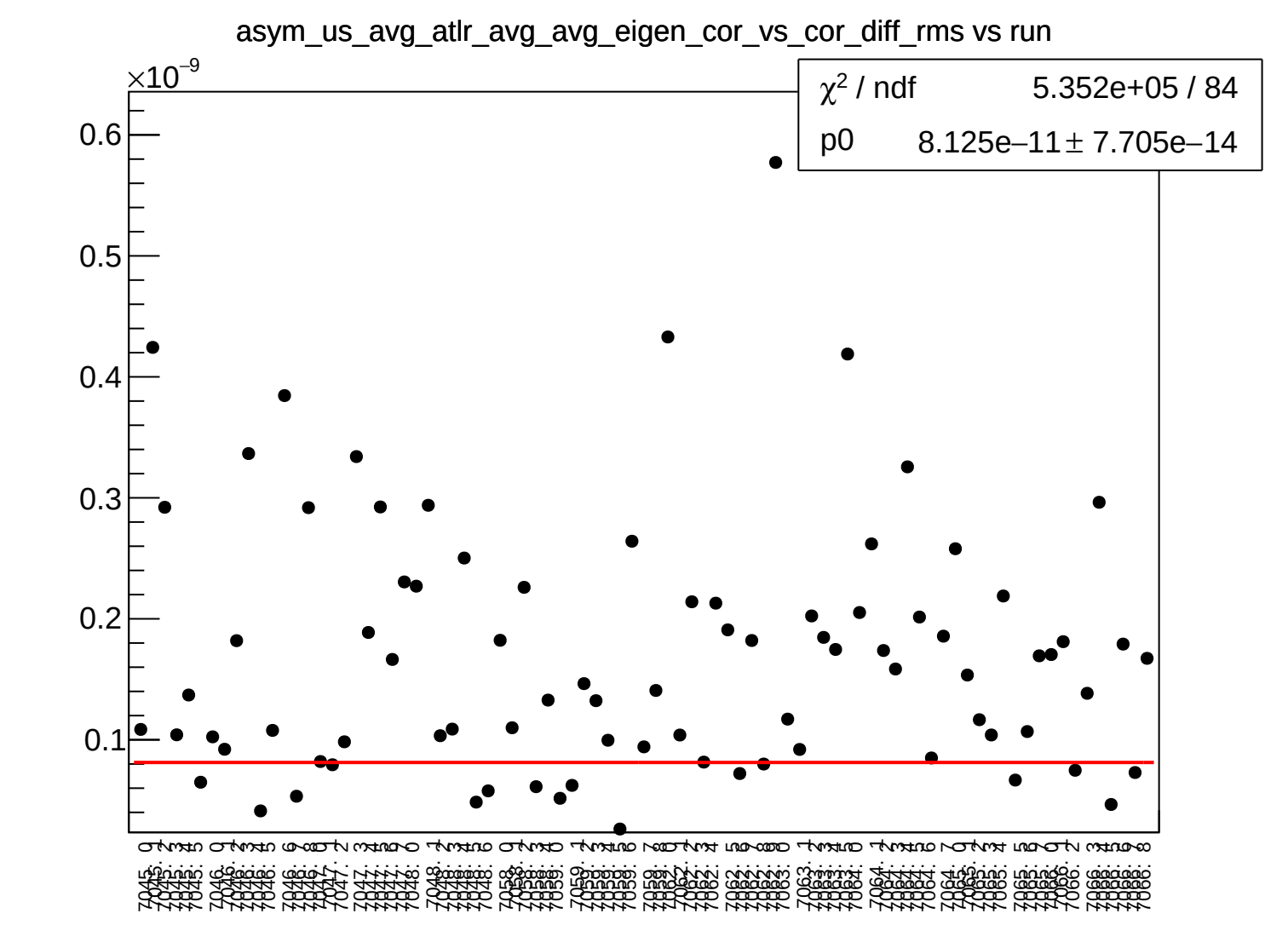

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.03 / 84
p0 −0.809 ± 0.4646
pull
Entries 85
Mean 227.4
Std Dev 0

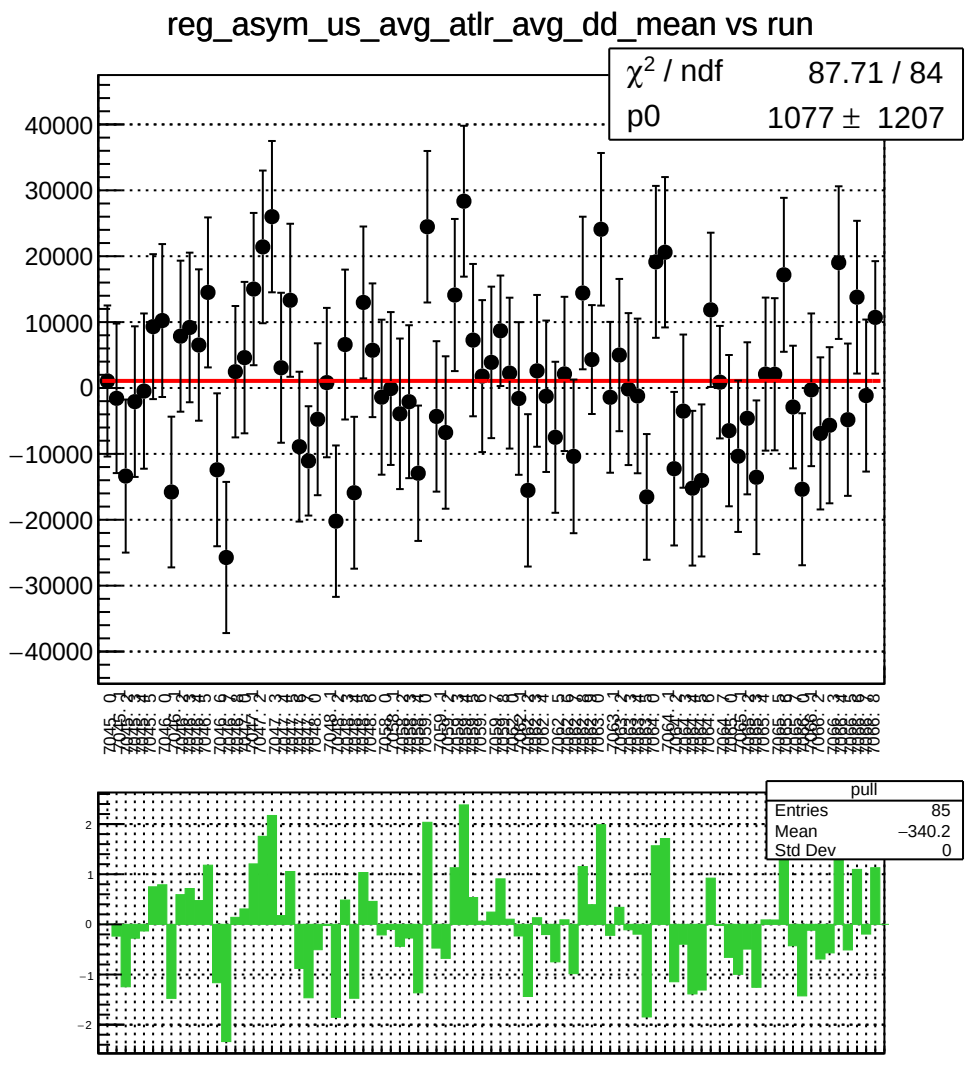

pull1D
Entries 85
Mean −0.02455
Std Dev 0.9455

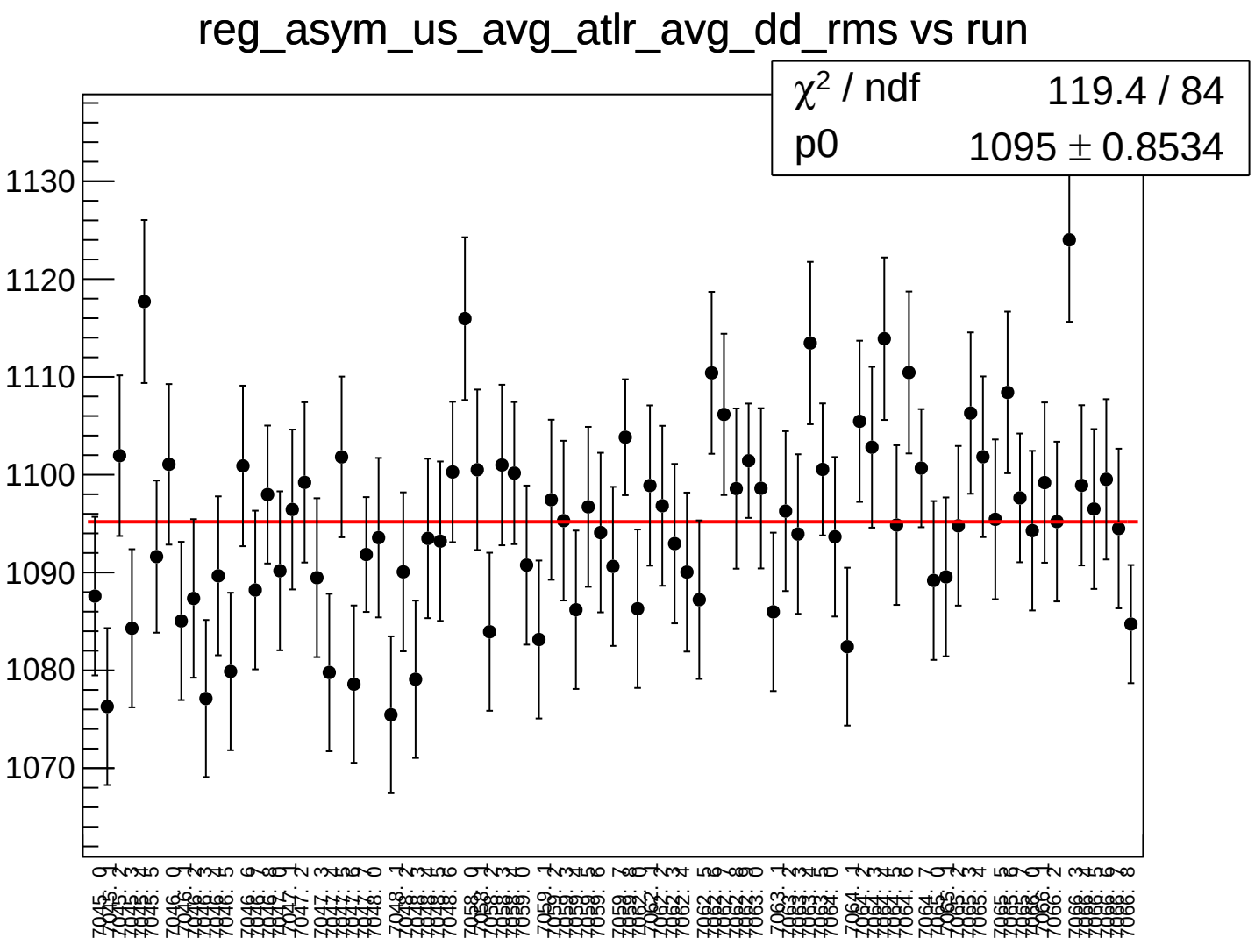

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.745e+04 / 84
p0 416.8 ± 0.3285
800
700
600
500
400

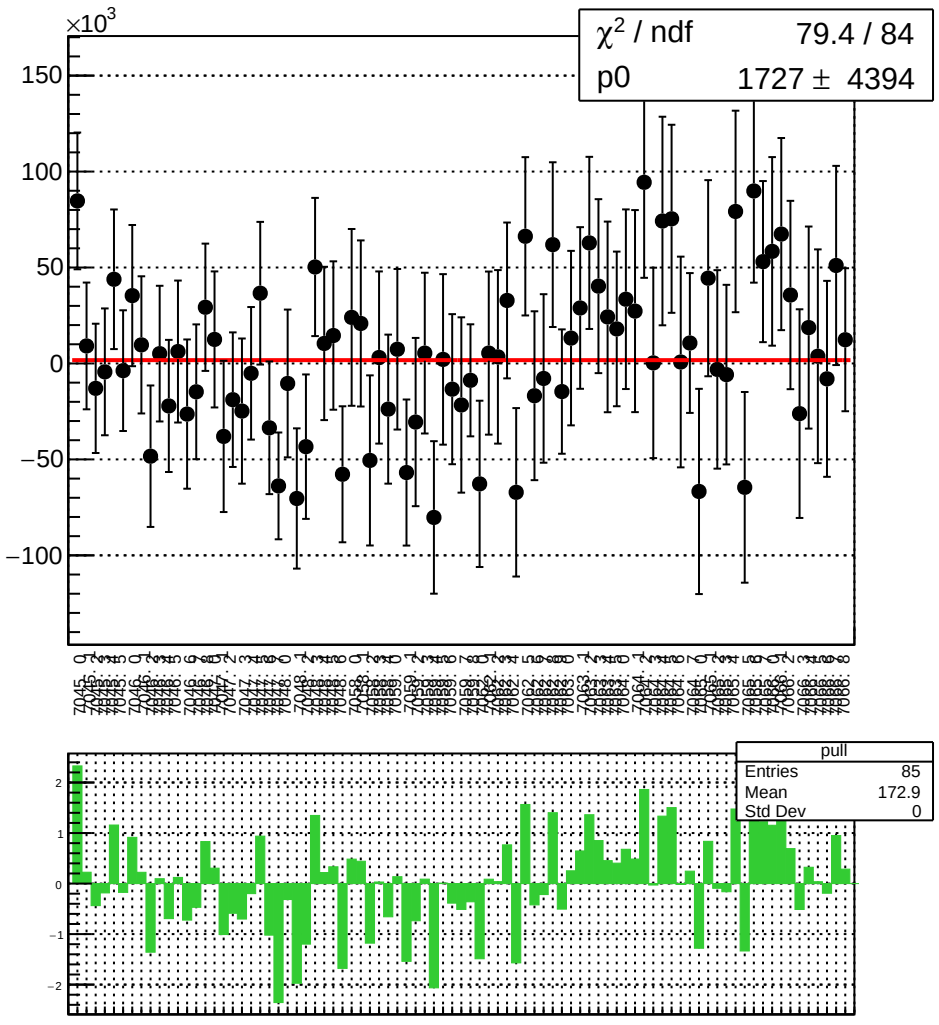

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.47 / 84
p0 1.554e−13 ± 1.09e−13
10
5
0
−5
−10
pull
Entries 85
Mean 51.52
Std Dev 28.64
2
1
0
−1
−2

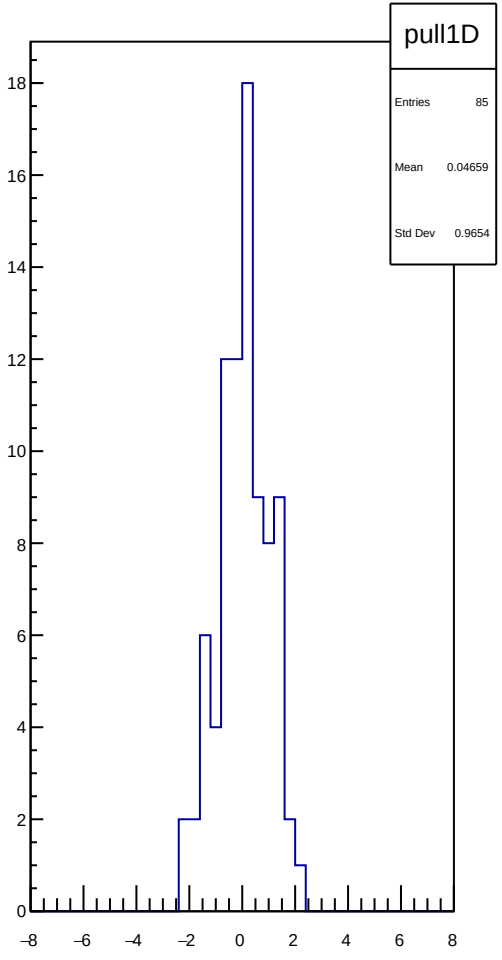

pull1D
Entries 85
Mean 0.1311
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

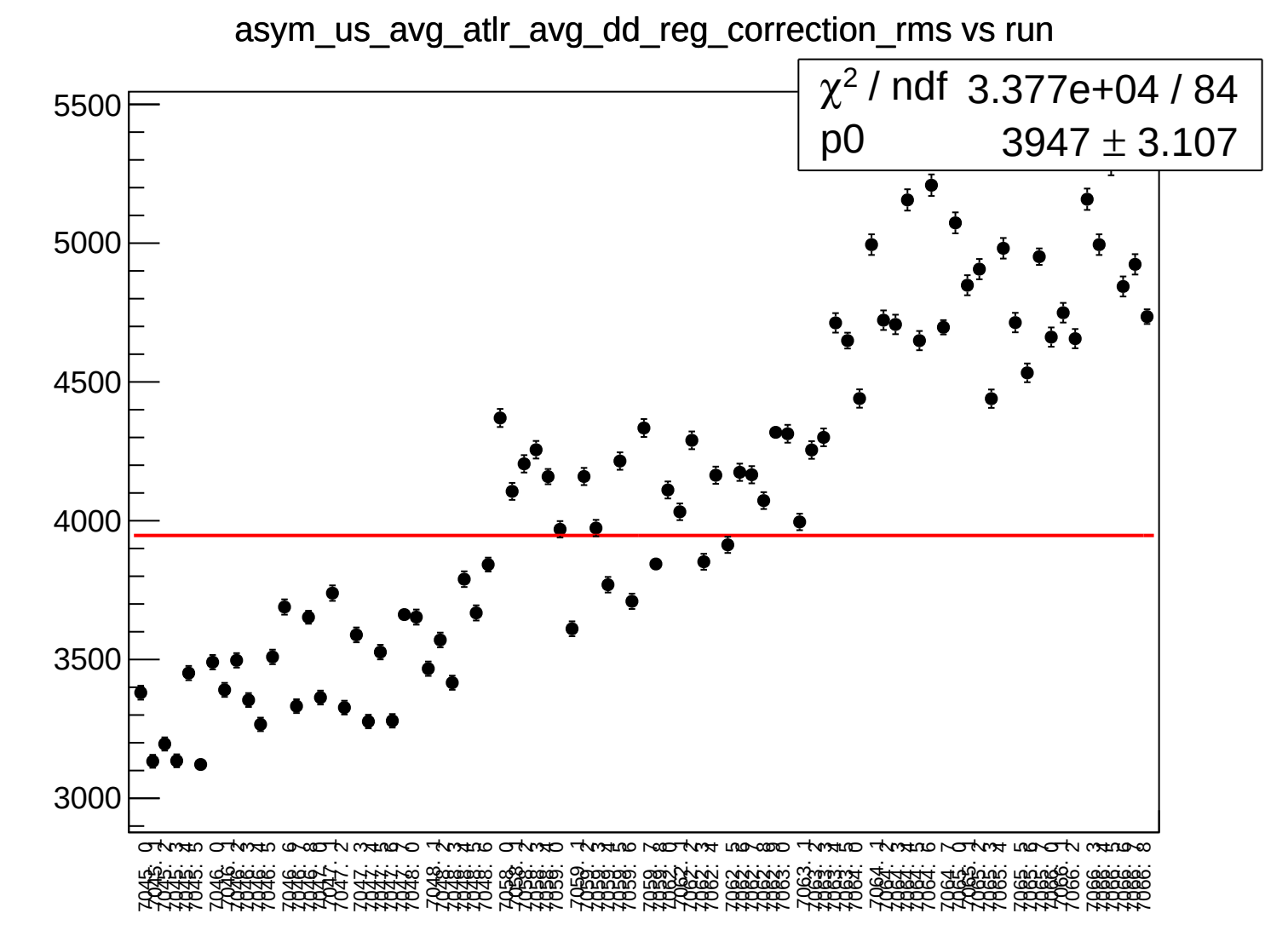

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.352e+05 / 84
p0 8.125e−11 ± 7.705e−14
0.6
0.5
0.4
0.3
0.2
0.1

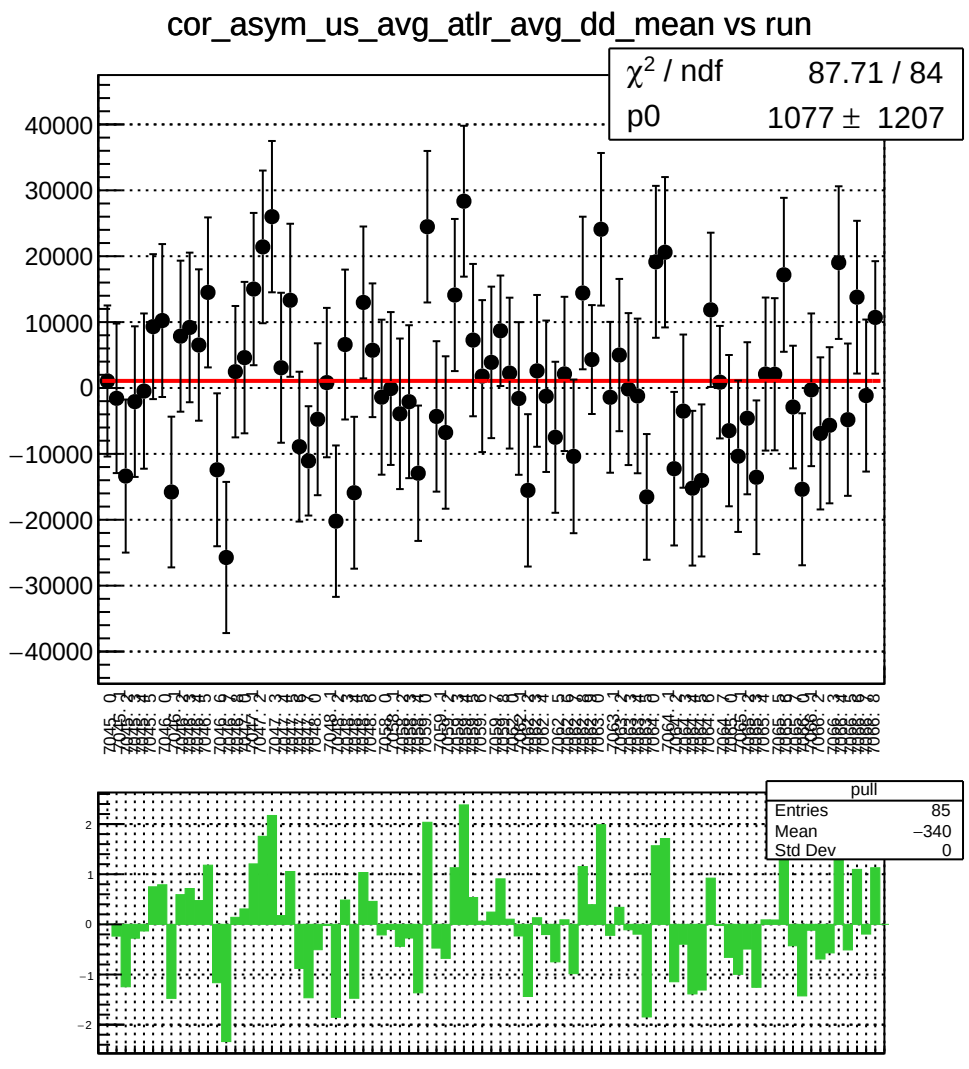

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.71 / 84
p0 1077 ± 1207
pull
Entries 85
Mean −340.2
Std Dev 0
pull1D
Entries 85
Mean 0.001948
Std Dev 1.016

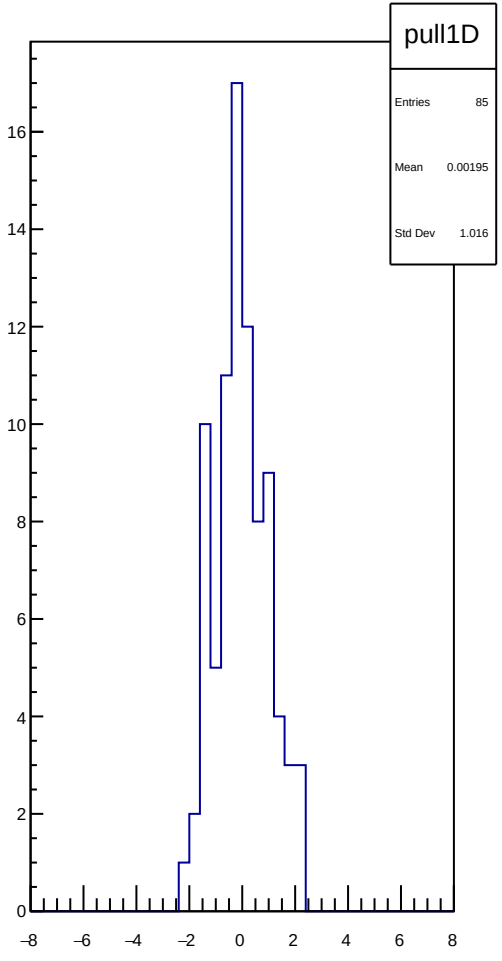

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 119.4 / 84
p0 1095 ± 0.8534
1130
1120
1110
1100
1090
1080
1070

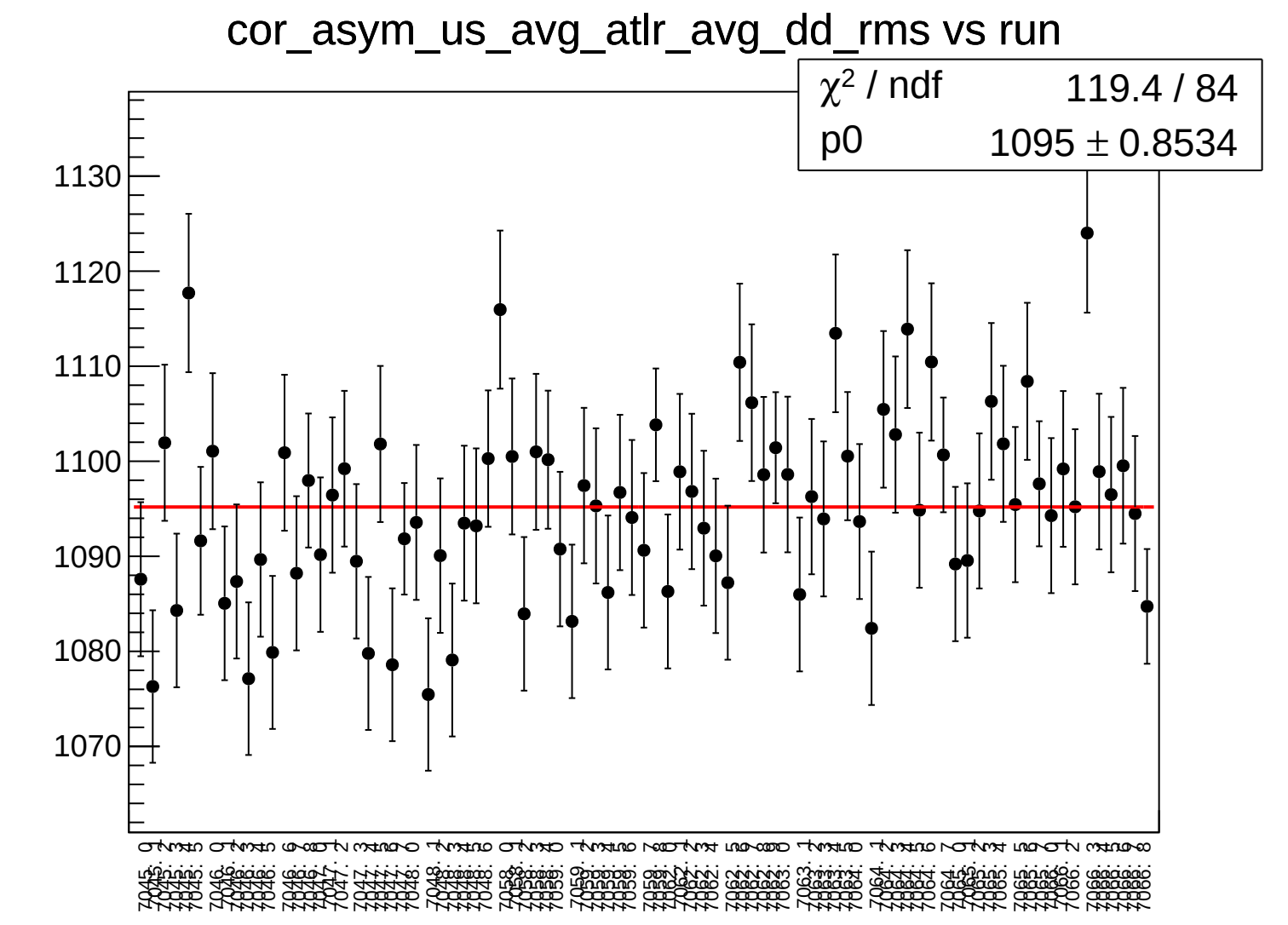

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.4 / 84
p0 1727 ± 4394
150
100
50
0
−50
−100
pull
Entries 85
Mean 172.9
Std Dev 0
2
1
0
−1
−2

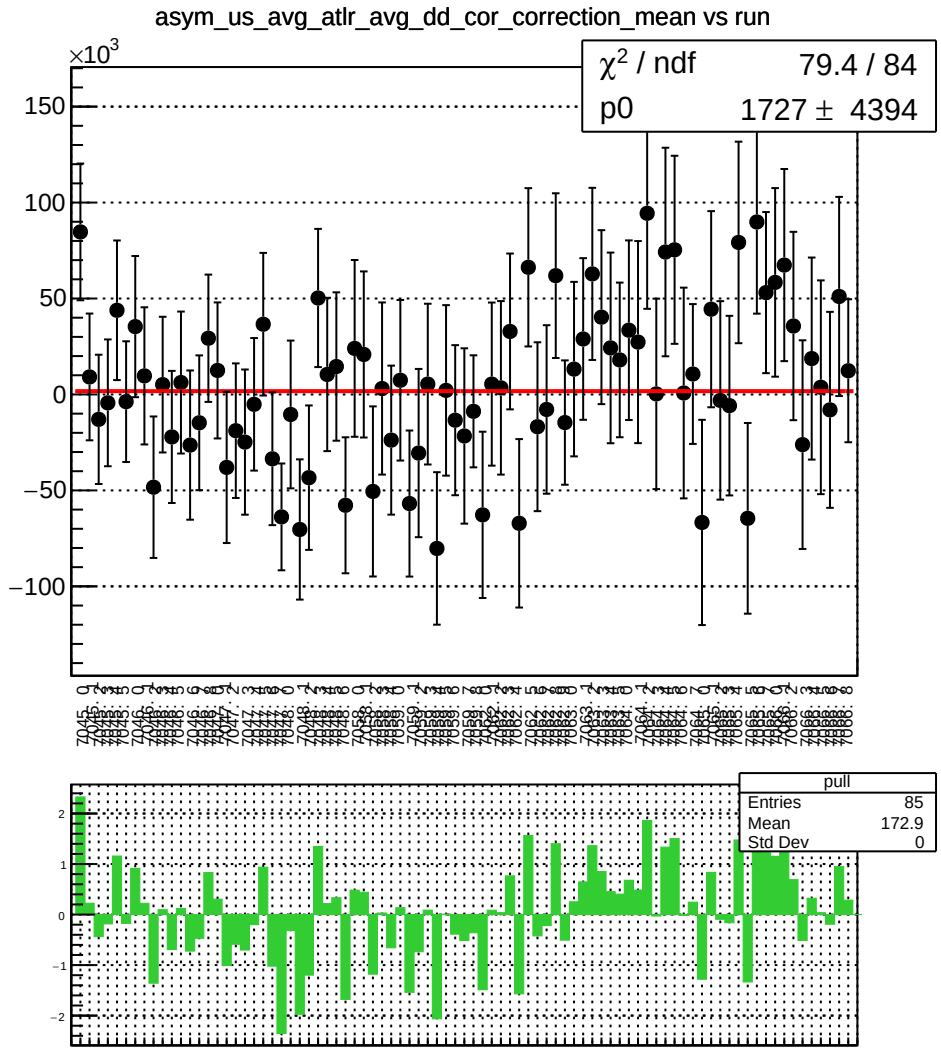

pull1D
Entries 85
Mean 0.04659
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

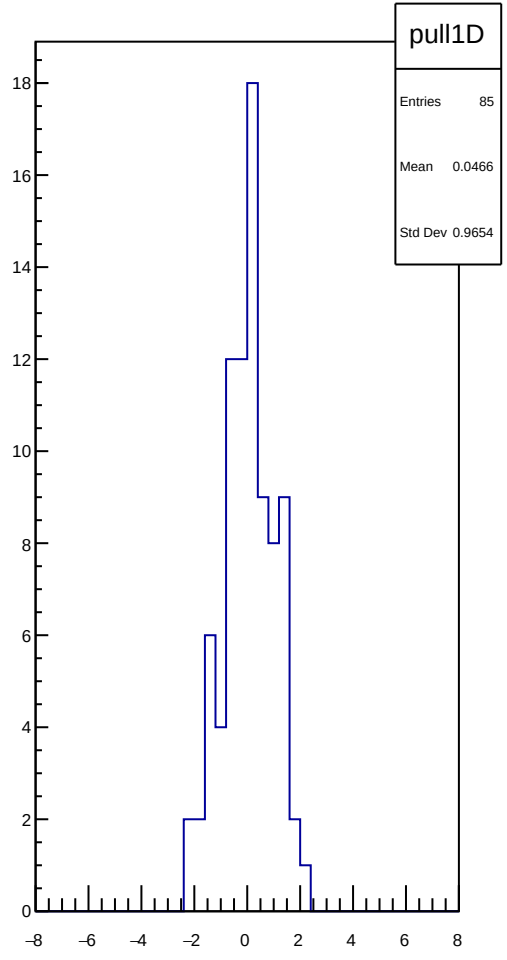

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.377e+04 / 84
p0 3947 ± 3.107
5500
5000
4500
4000
3500
3000

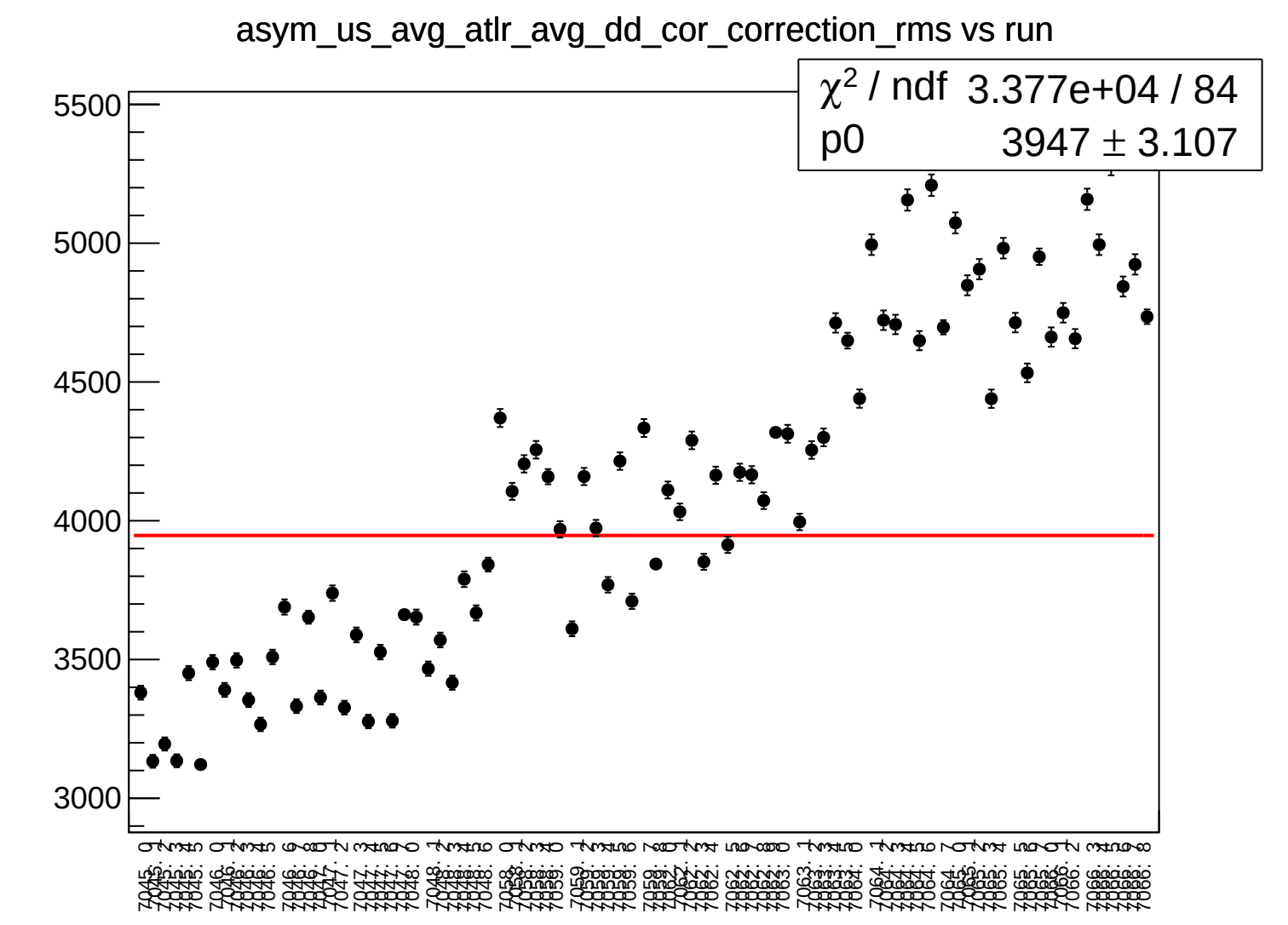

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.71 / 84
p0 1077 ± 1207
pull
Entries 85
Mean −340
Std Dev 0

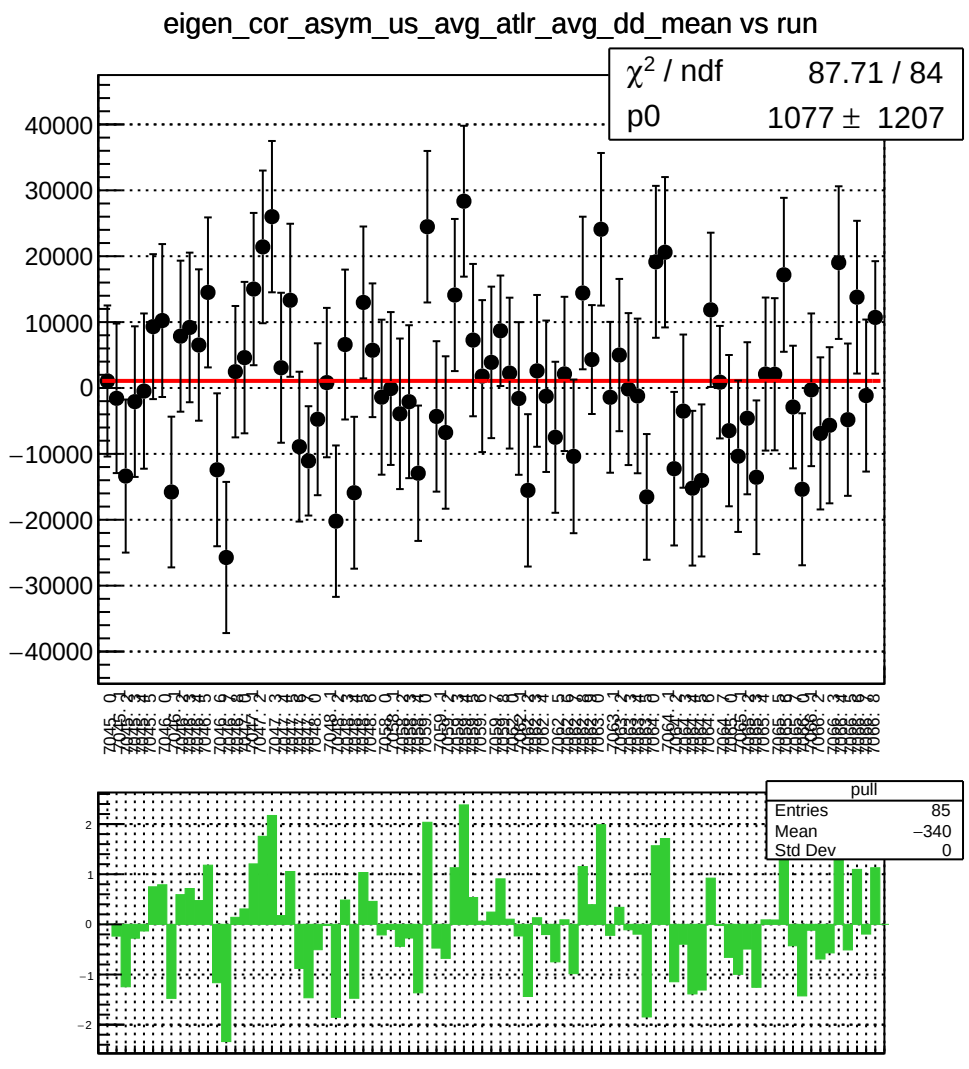

pull1D
Entries 85
Mean 0.00195
Std Dev 1.016

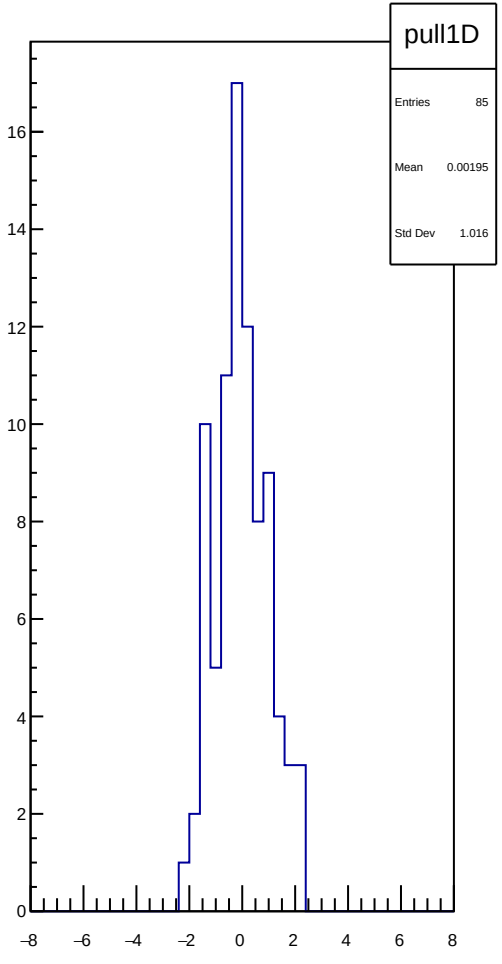

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 119.4 / 84
p0 1095 ± 0.8534
1130
1120
1110
1100
1090
1080
1070

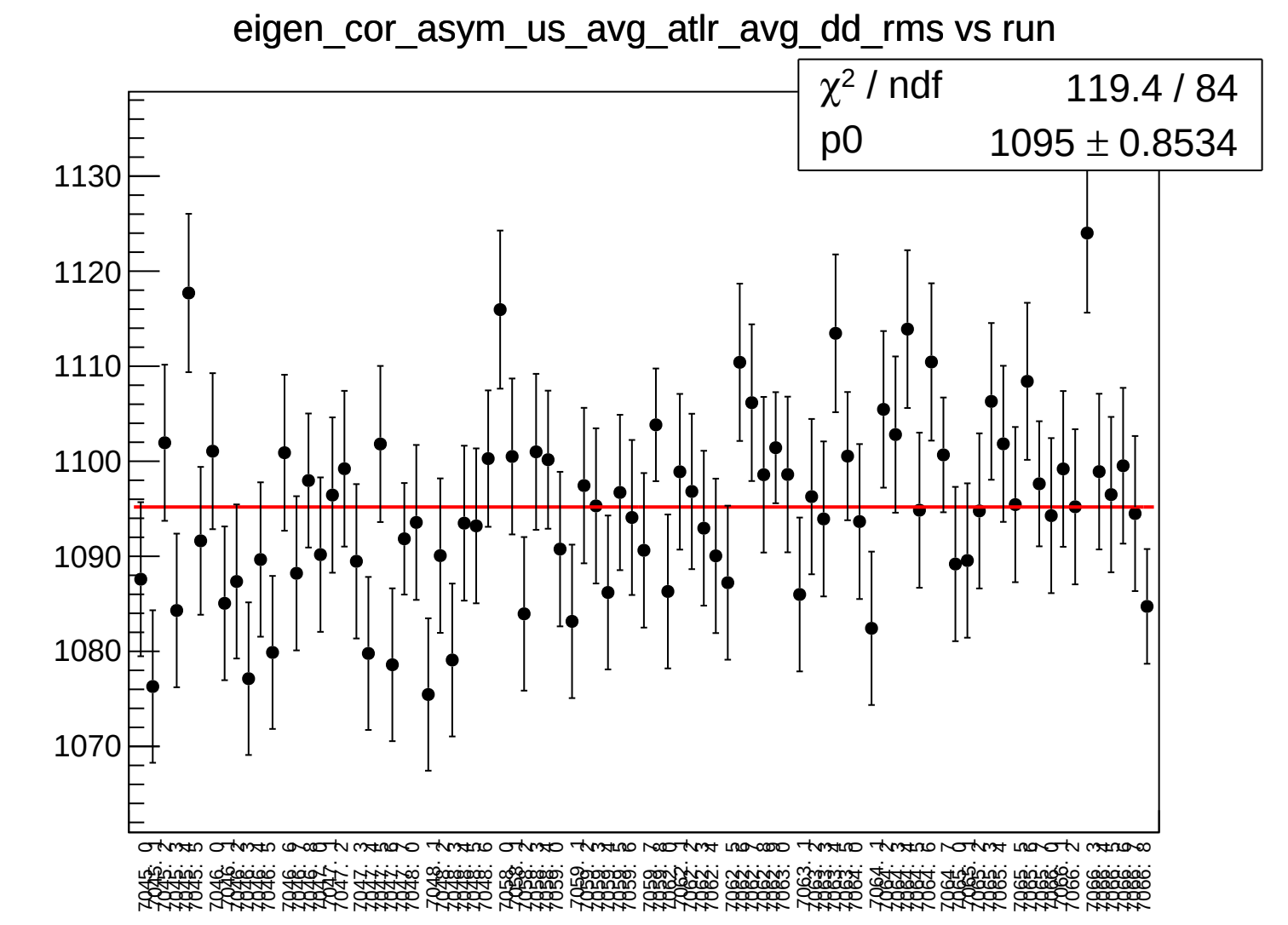

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.4 / 84
p0 1727 ± 4394
150
100
50
0
−50
−100
pull
Entries 85
Mean 172.9
Std Dev 0
2
1
0
−1
−2

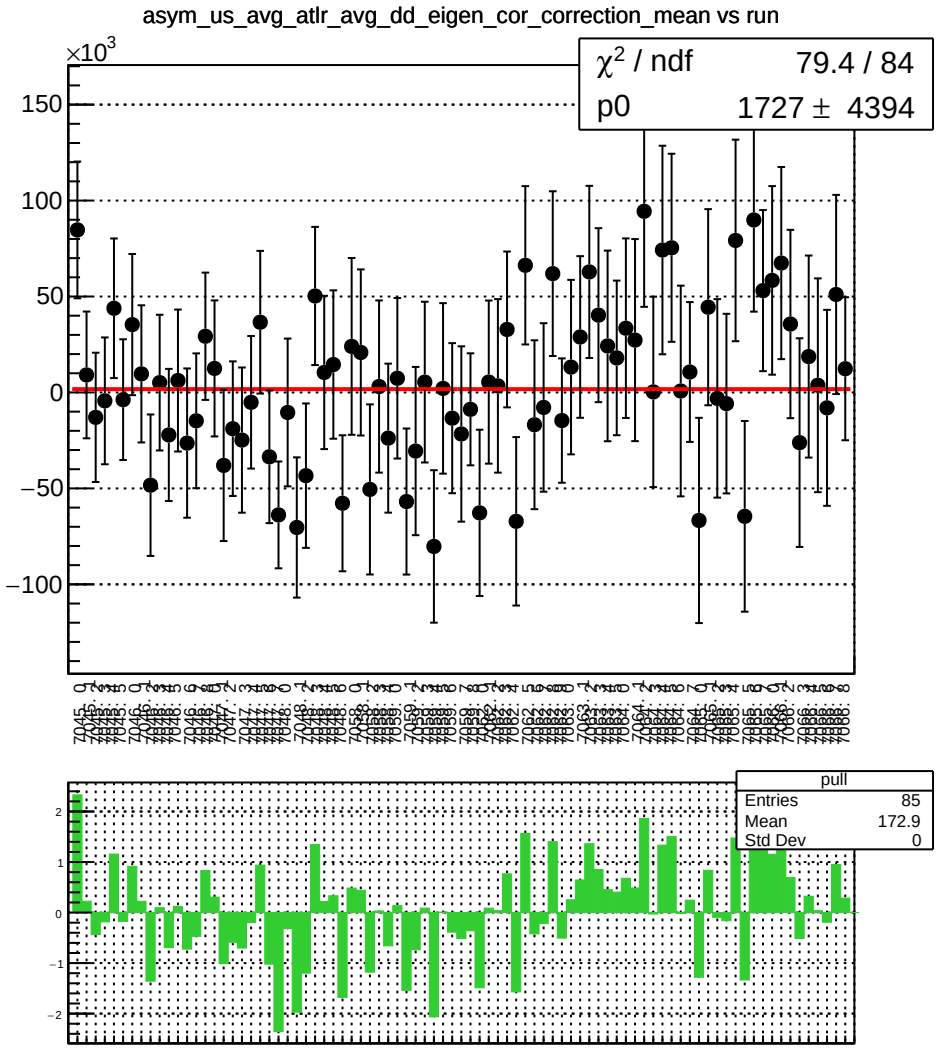

pull1D
Entries 85
Mean 0.0466
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

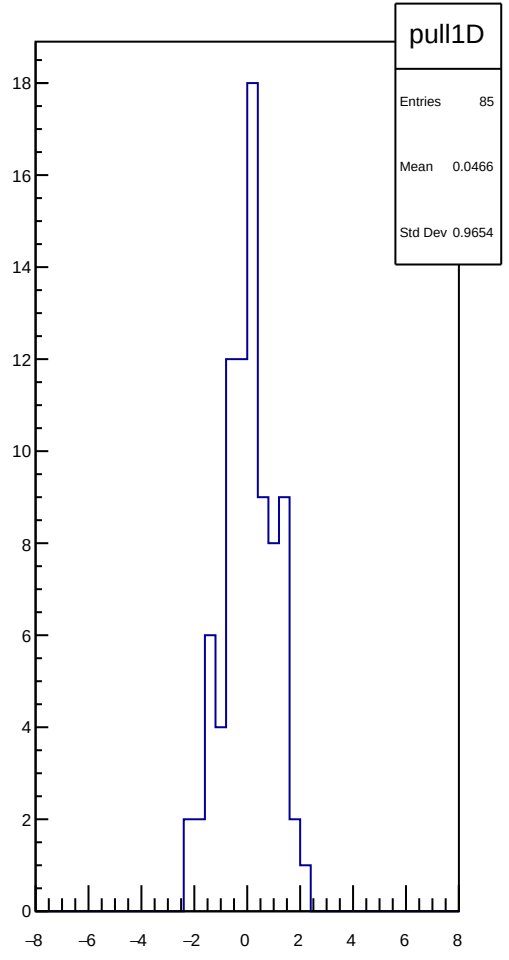

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.377e+04 / 84
p0 3947 ± 3.107
5500
5000
4500
4000
3500
3000

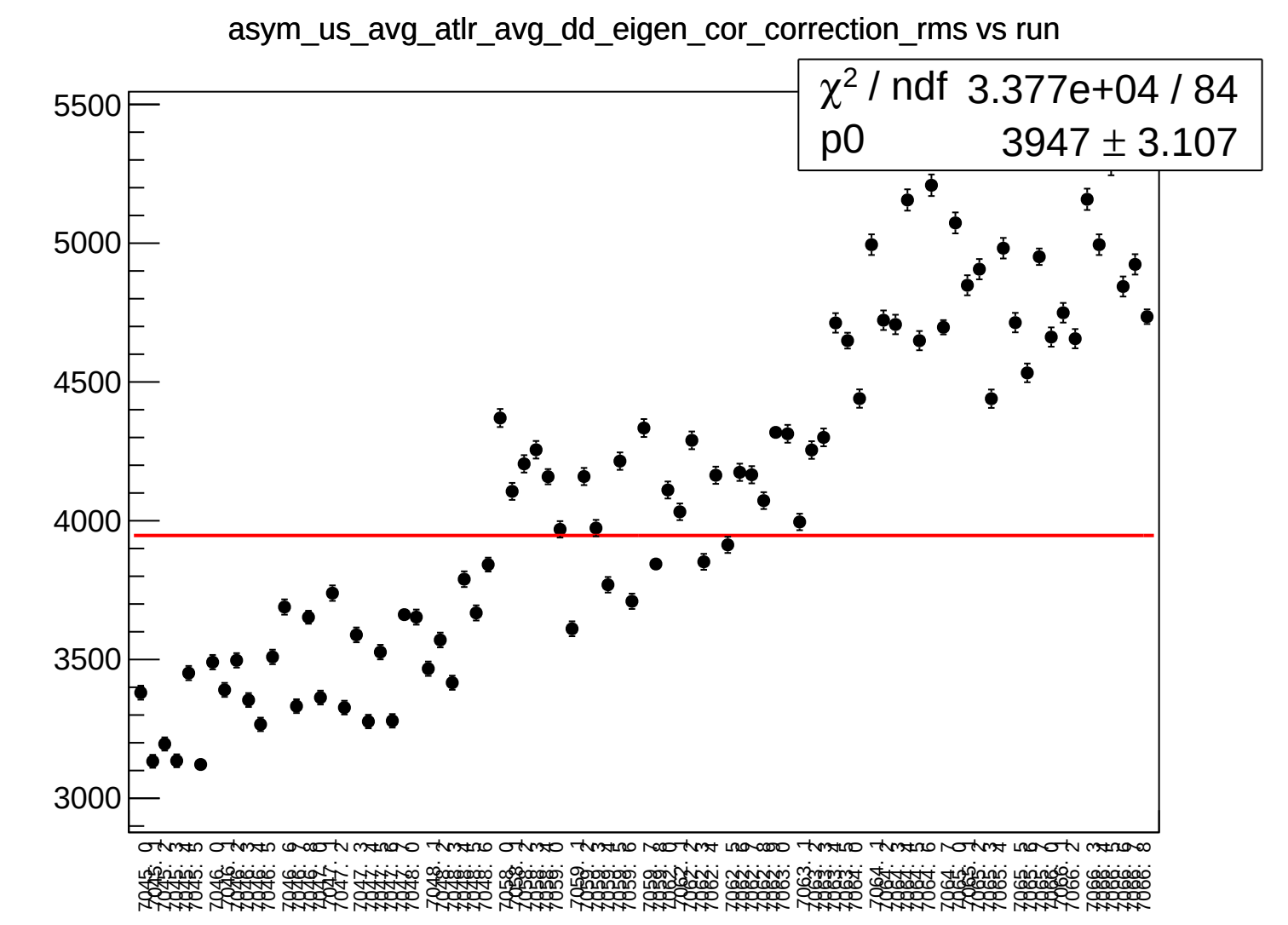

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.71 / 84
p0 1077 ± 1207
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −340
Std Dev 0
2
1
0
−1
−2

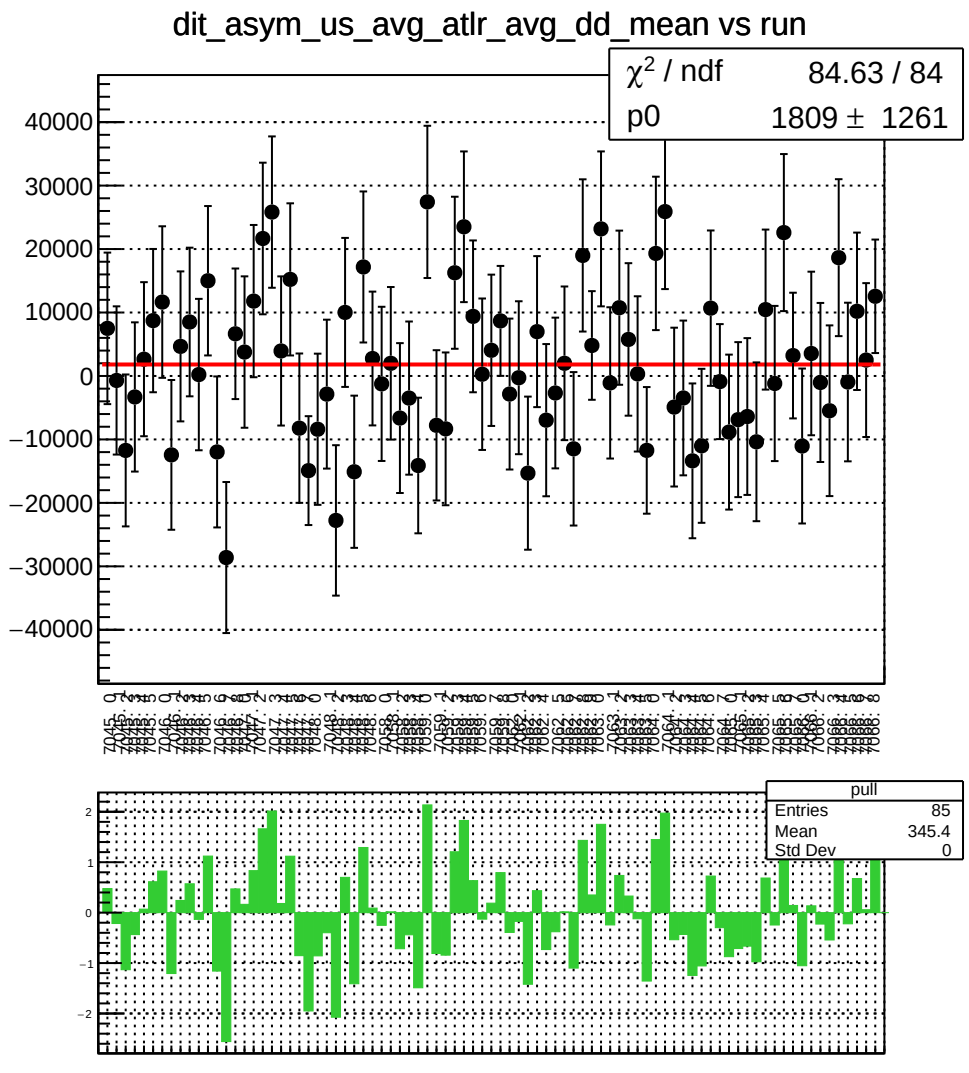

pull1D
Entries 85
Mean 0.00195
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

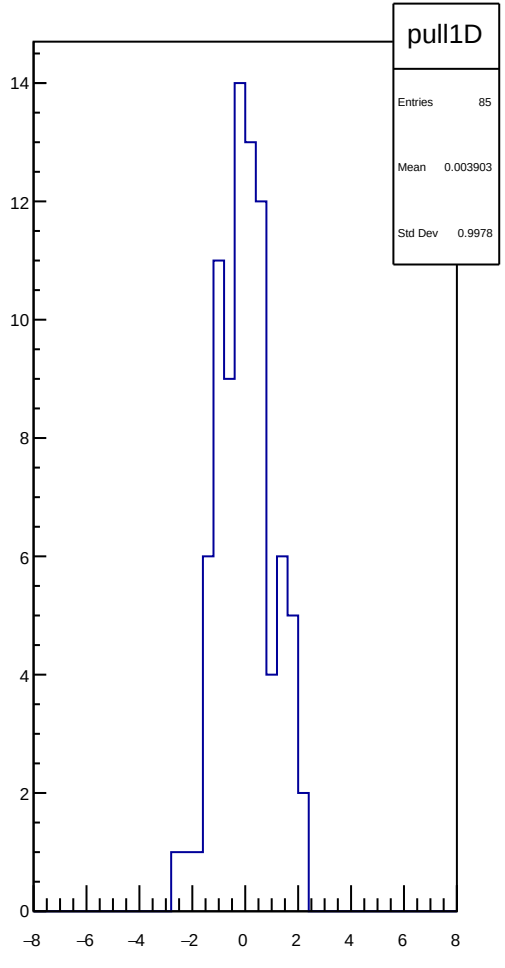

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 119.4 / 84
p0 1095 ± 0.8534
1130
1120
1110
1100
1090
1080
1070

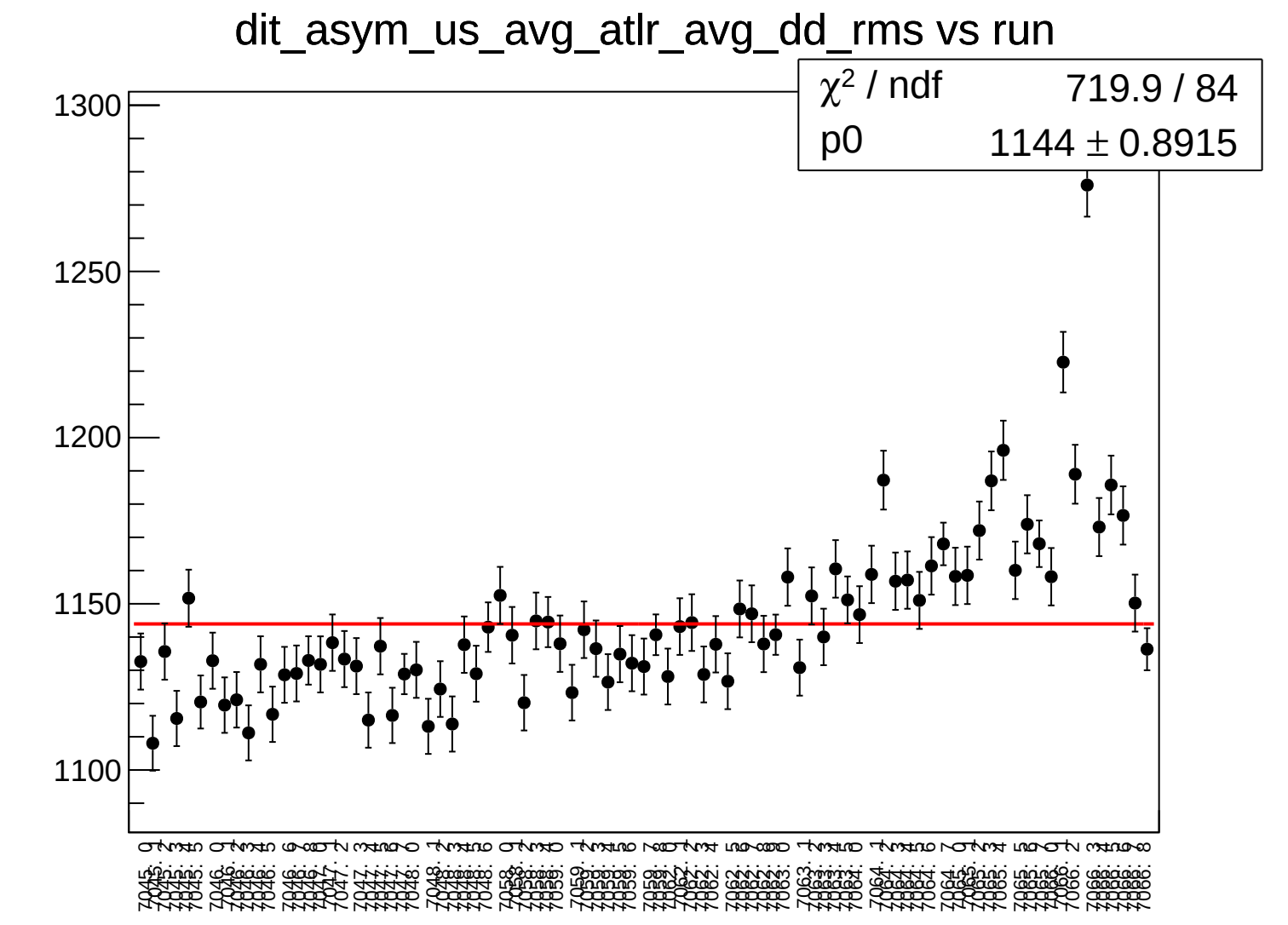

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.4 / 84
p0 1727 ± 4394
150
100
50
0
−50
−100
pull
Entries 85
Mean 172.9
Std Dev 0
2
1
0
−1
−2

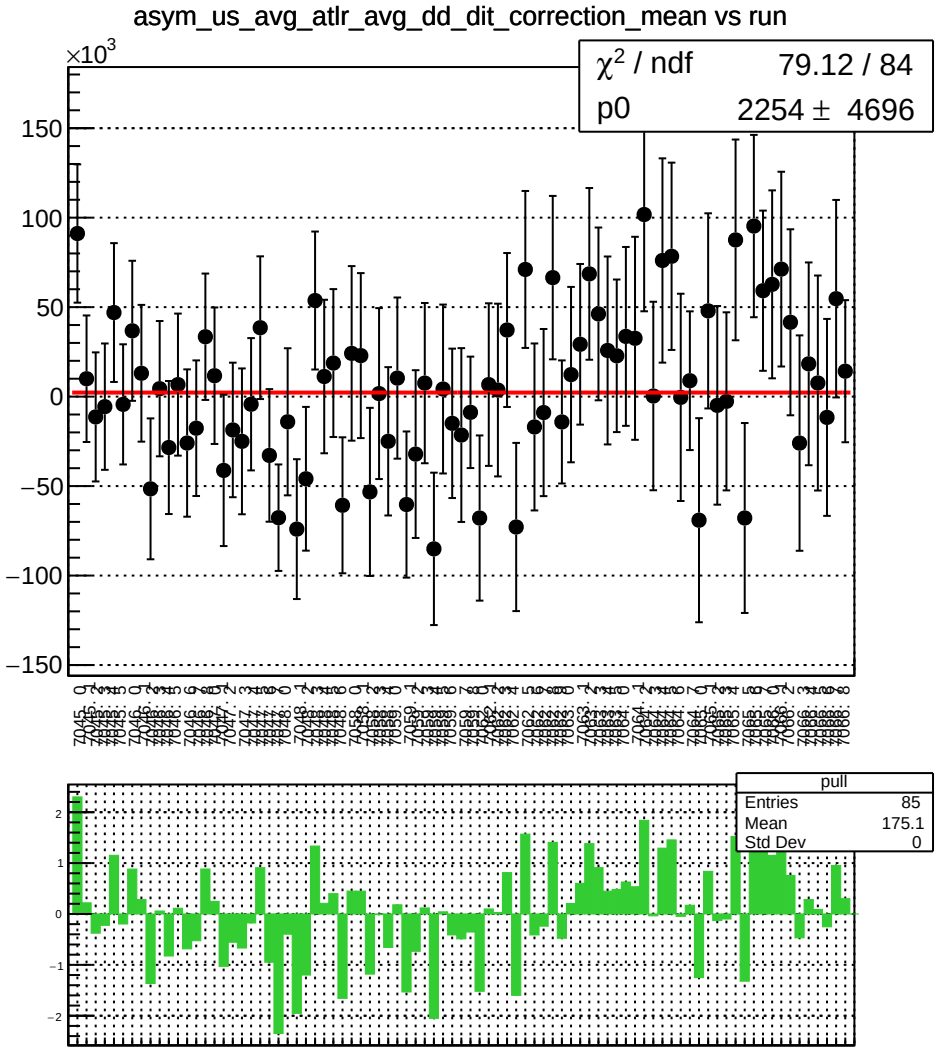

pull1D
Entries 85
Mean 0.0466
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

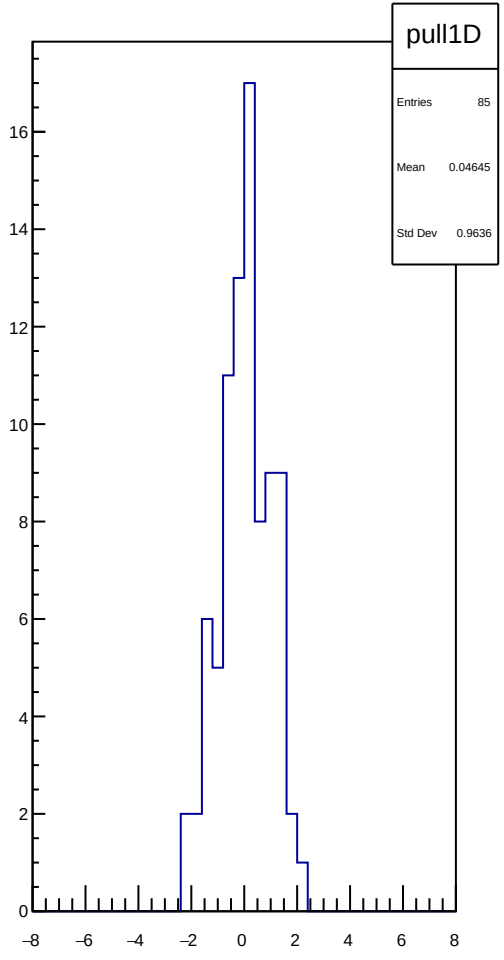

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.377e+04 / 84
p0 3947 ± 3.107
5500
5000
4500
4000
3500
3000

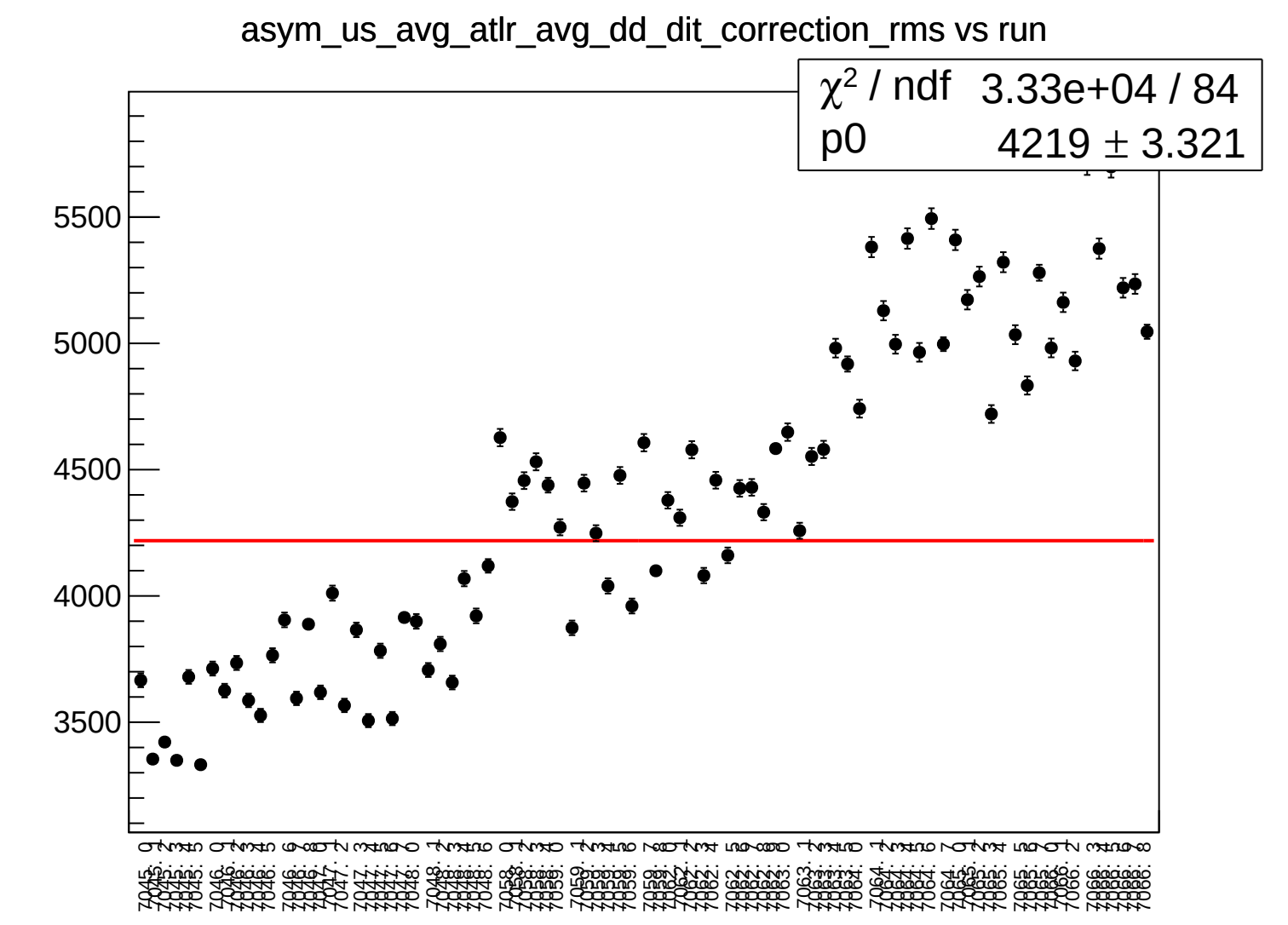

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.63 / 84
p0 1809 ± 1261
pull
Entries 85
Mean 345.4
Std Dev 0

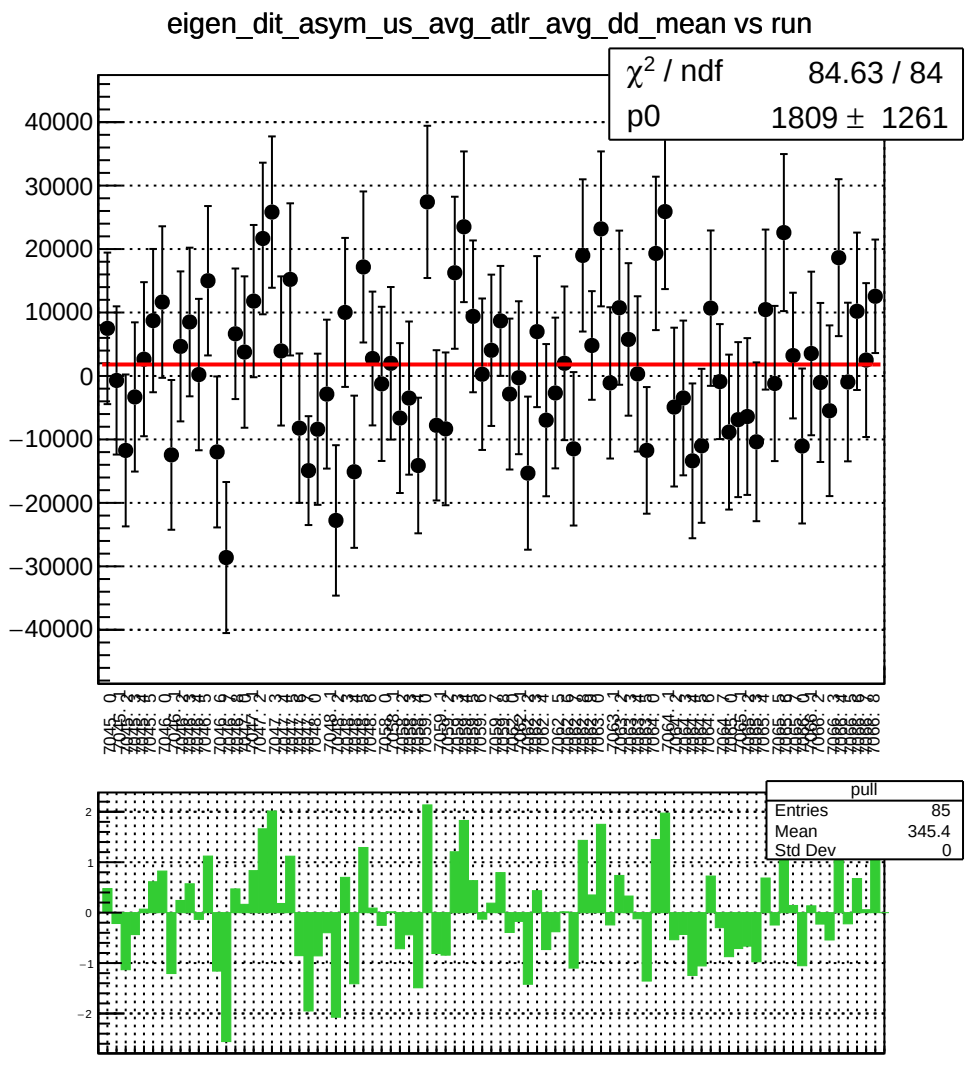

pull1D
Entries 85
Mean 0.003903
Std Dev 0.9978

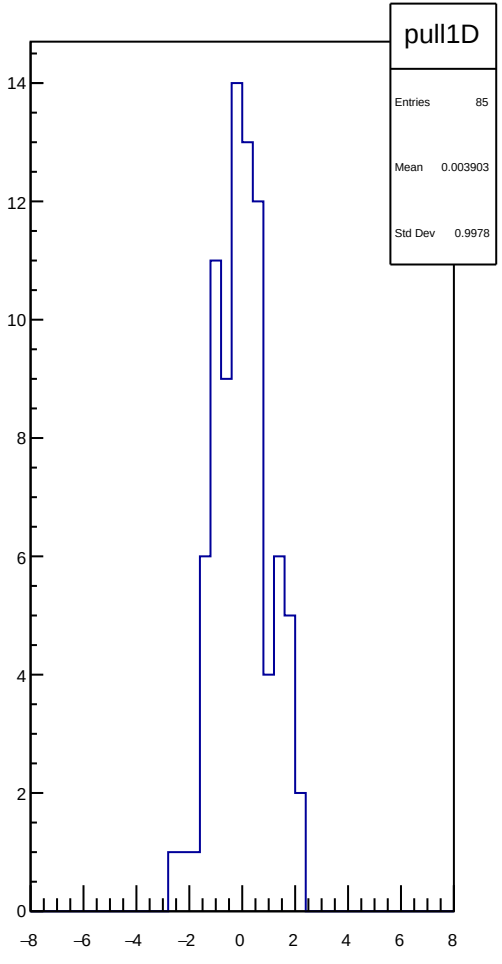

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 719.9 / 84
p0 1144 ± 0.8915
1300
1250
1200
1150
1100

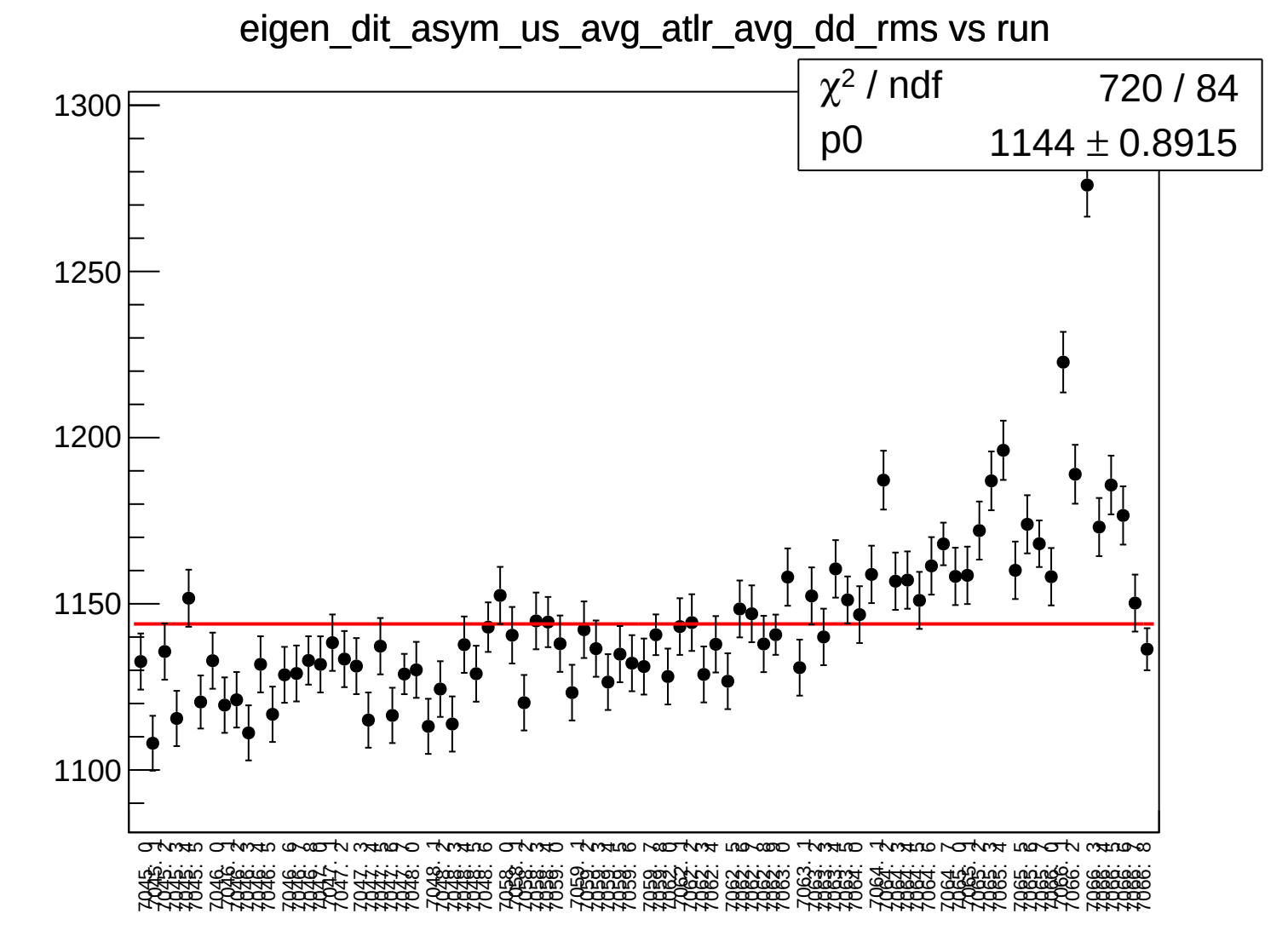

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.12 / 84
p0 2254 ± 4696
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 175.1
Std Dev 0
2
1
0
−1
−2

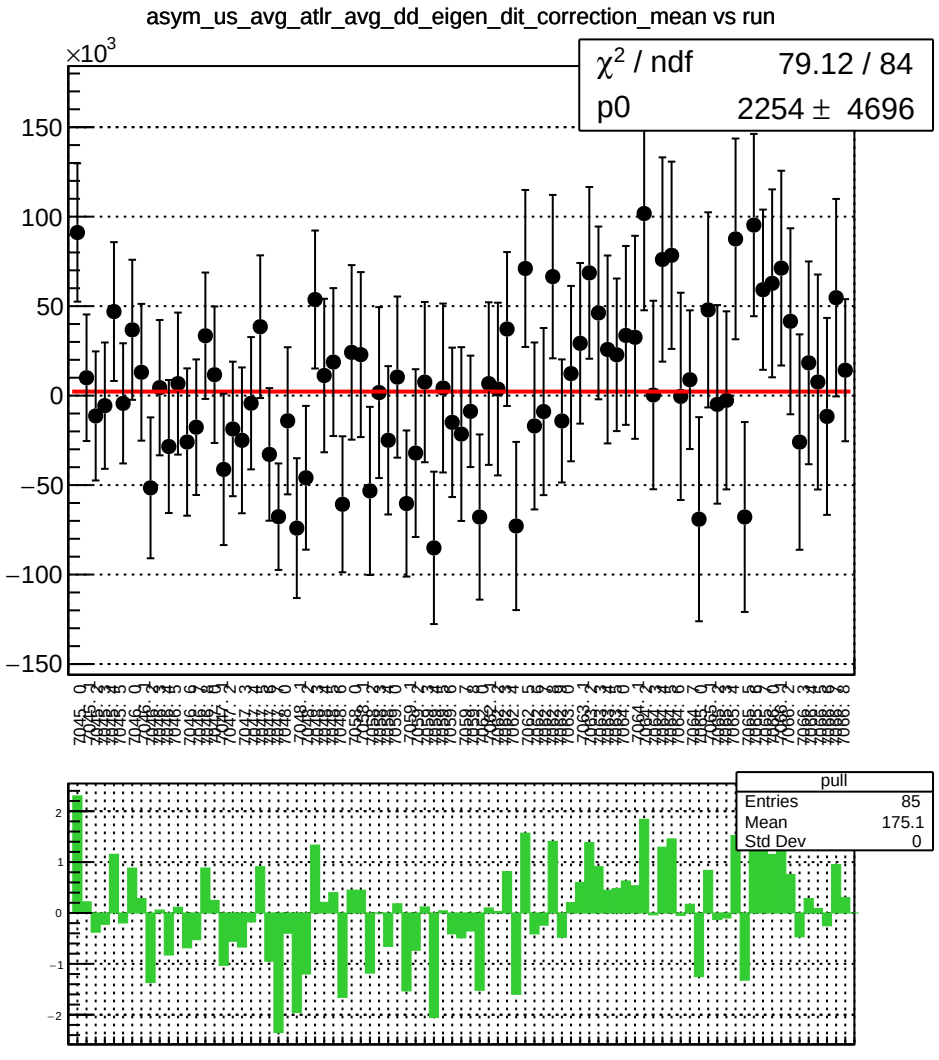

pull1D
Entries 85
Mean 0.04645
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

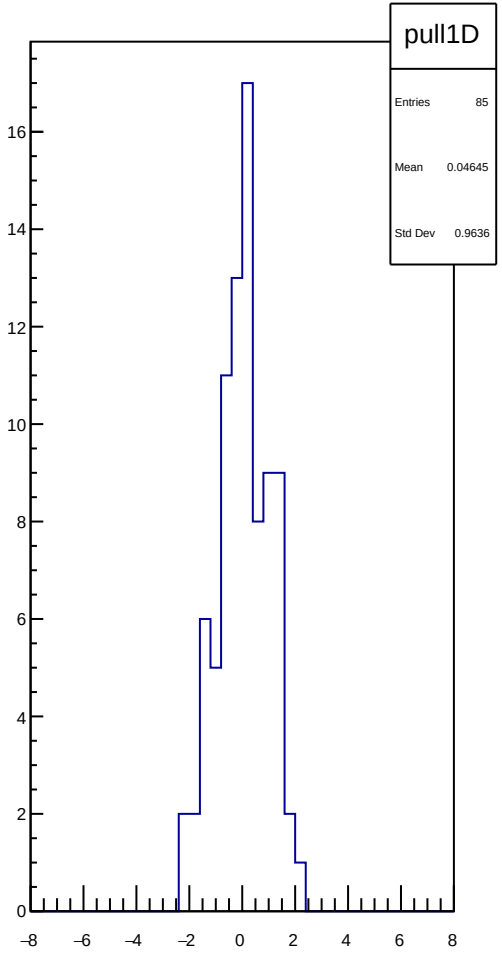

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.33e+04 / 84
p0 4219 ± 3.321
5500
5000
4500
4000
3500

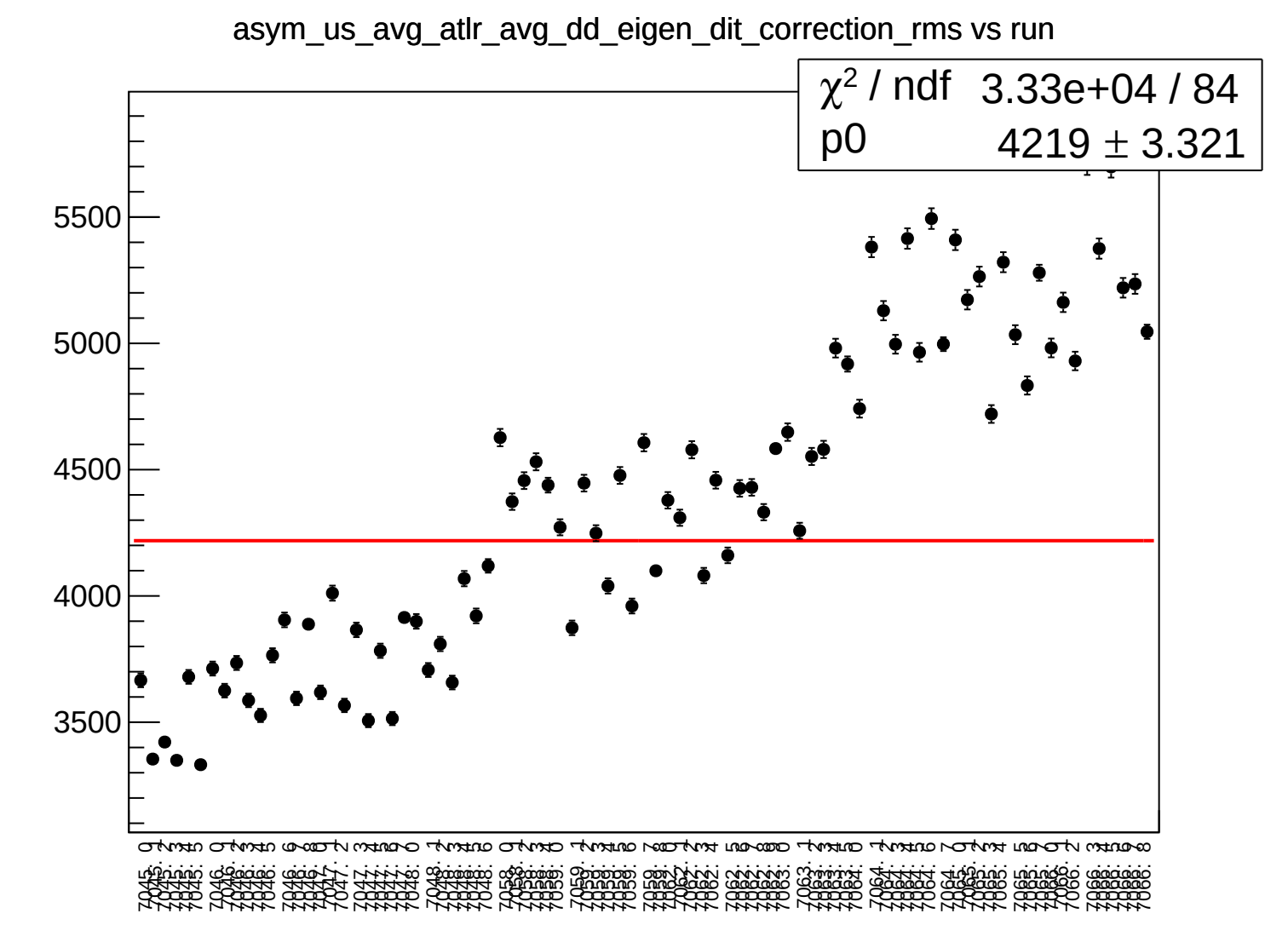

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.63 / 84
p0 1809 ± 1261
pull
Entries 85
Mean 345.4
Std Dev 0

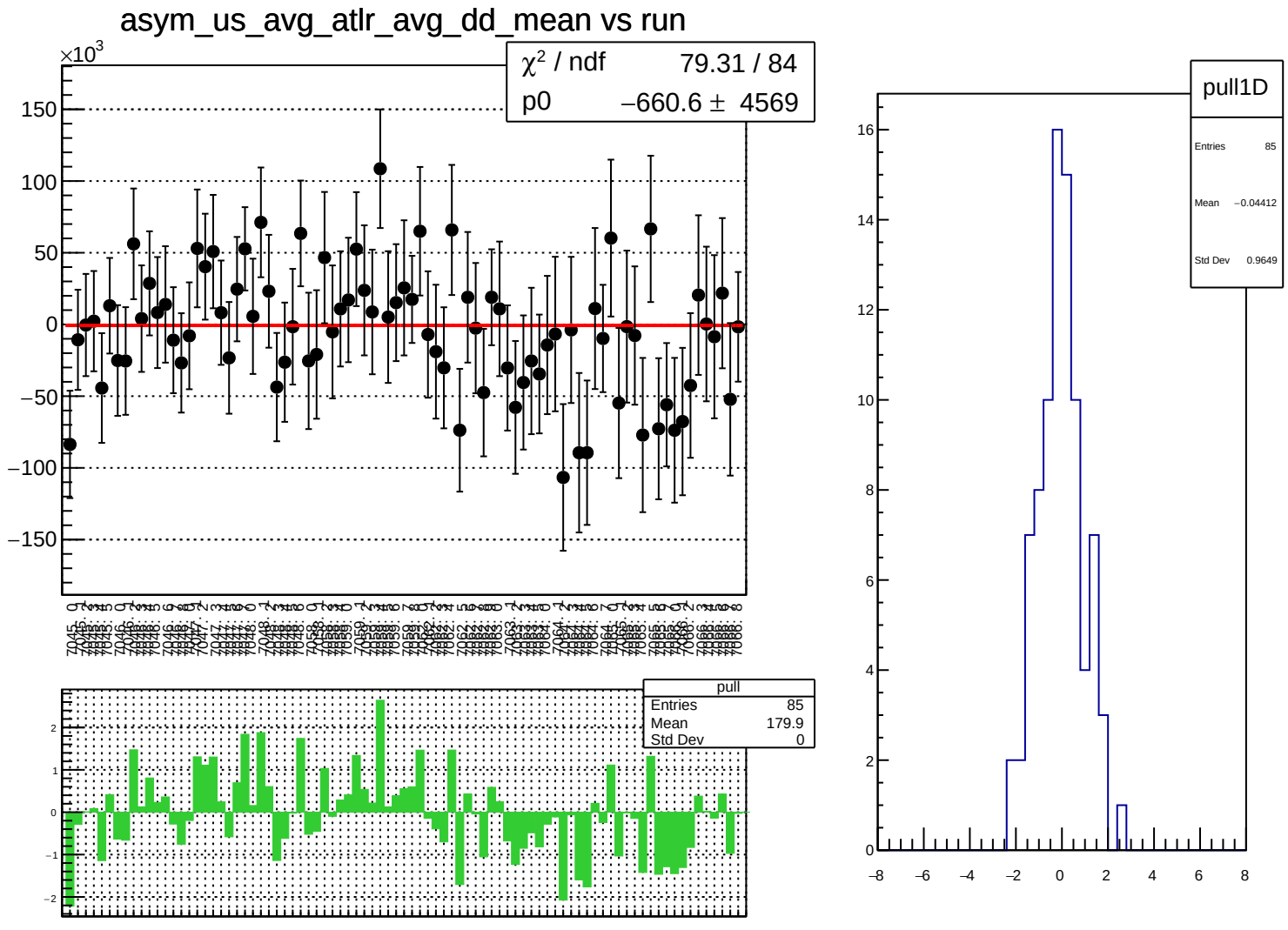

pull1D
Entries 85
Mean 0.003903
Std Dev 0.9978

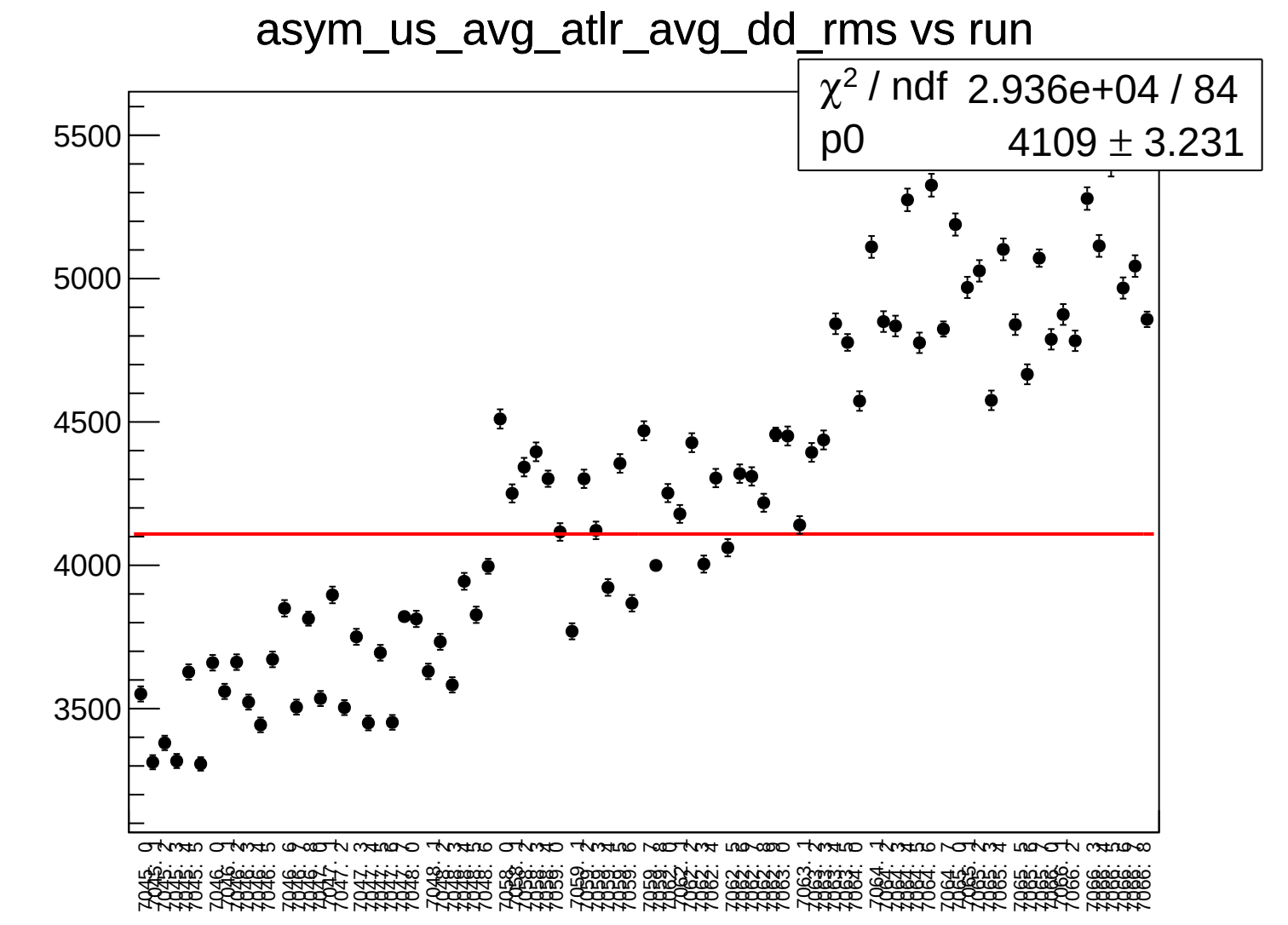

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 720 / 84
p0 1144 ± 0.8915
1300
1250
1200
1150
1100

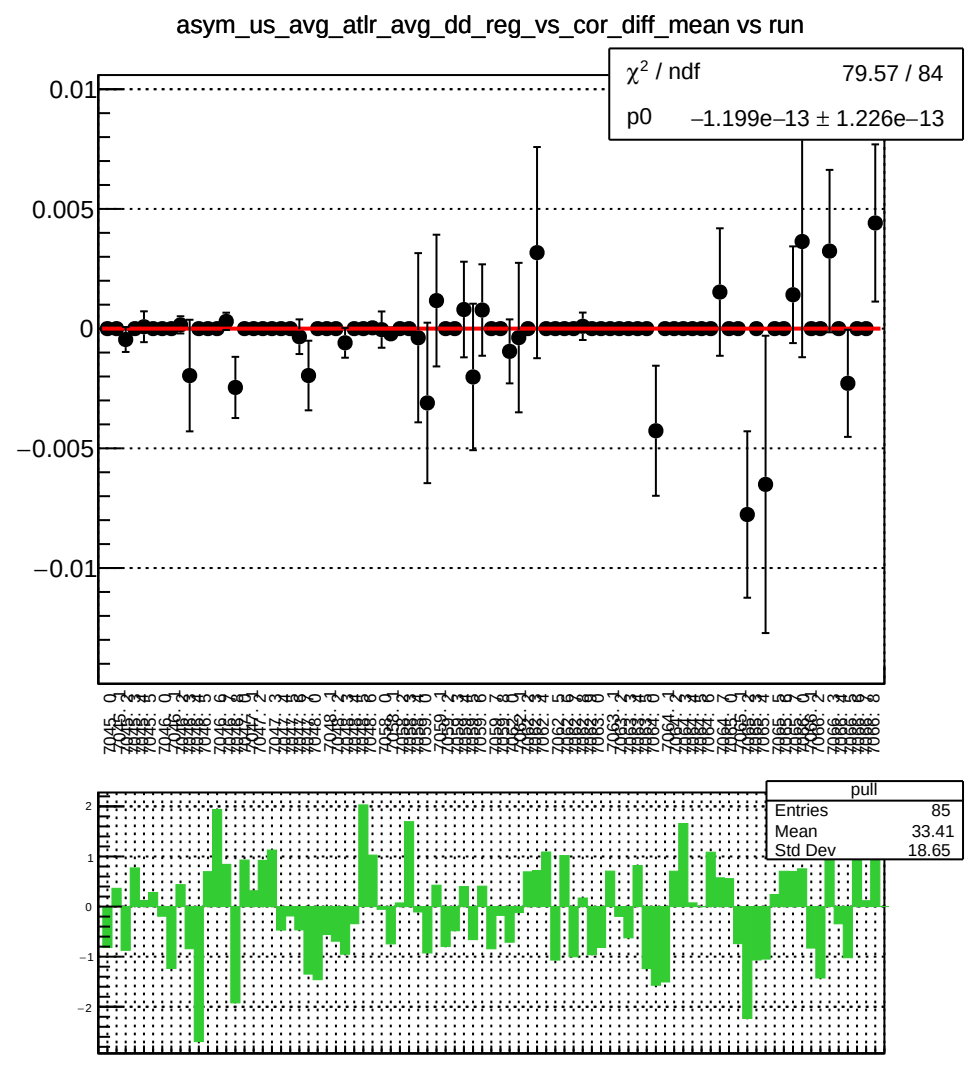

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.12 / 84
p0 2254 ± 4696
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 175.1
Std Dev 0
2
1
0
−1
−2

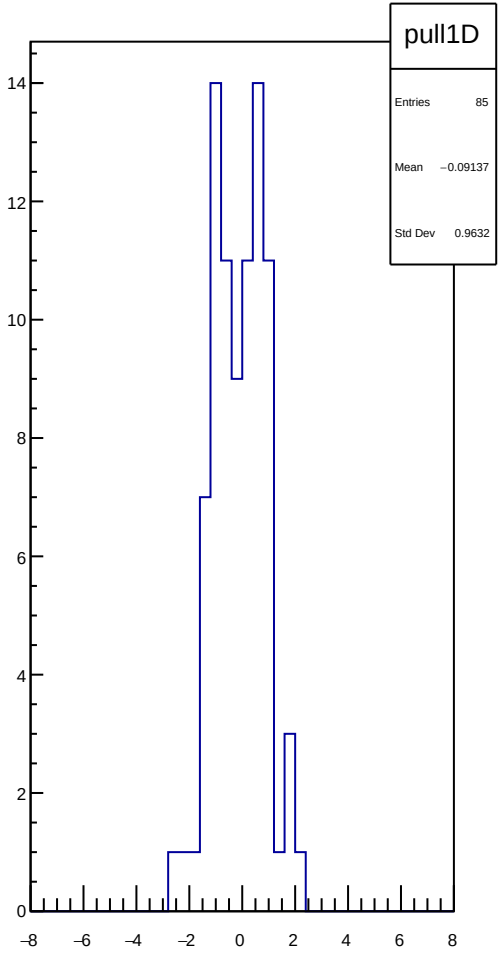

pull1D
Entries 85
Mean 0.04645
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

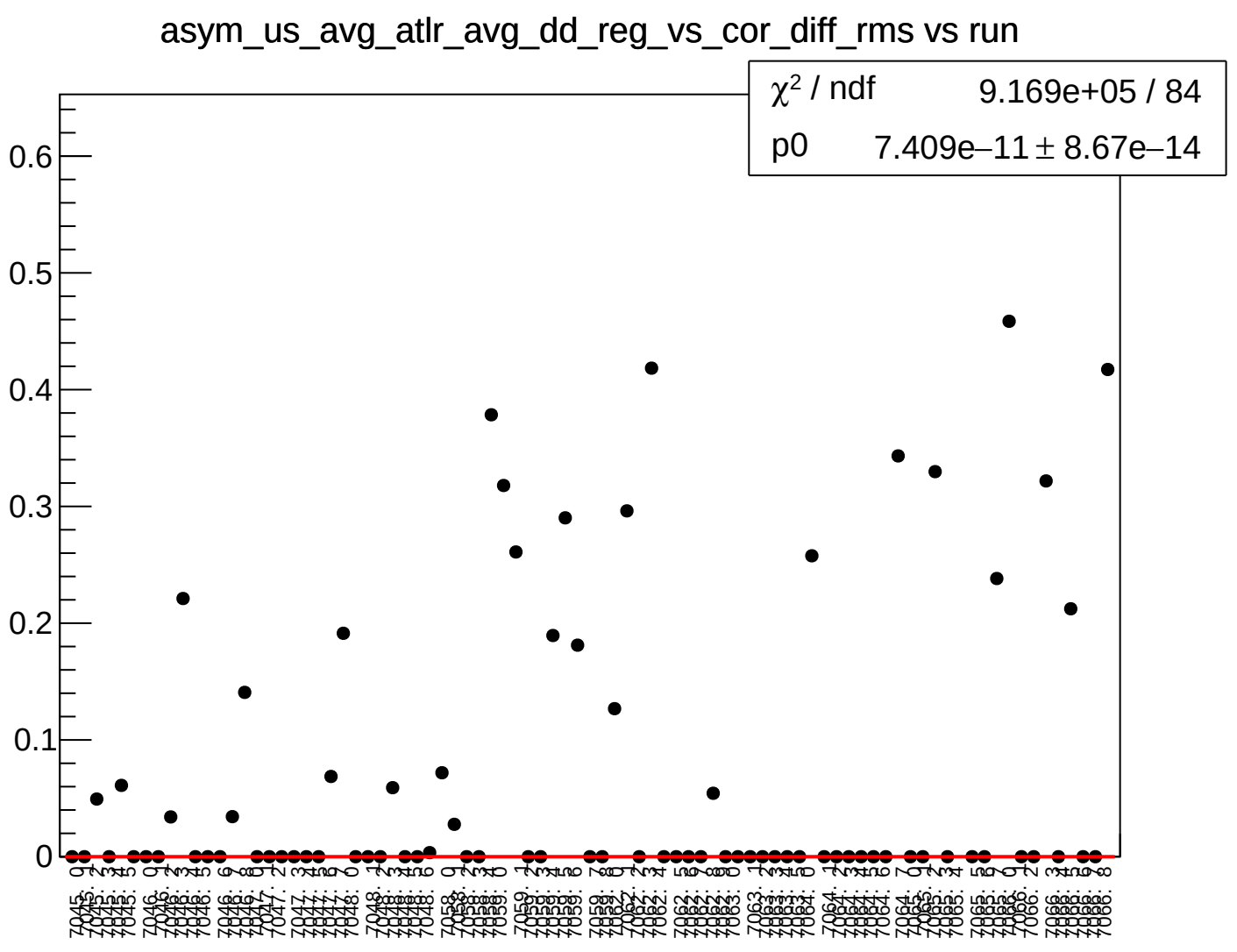

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.33e+04 / 84
p0 4219 ± 3.321
5500
5000
4500
4000
3500

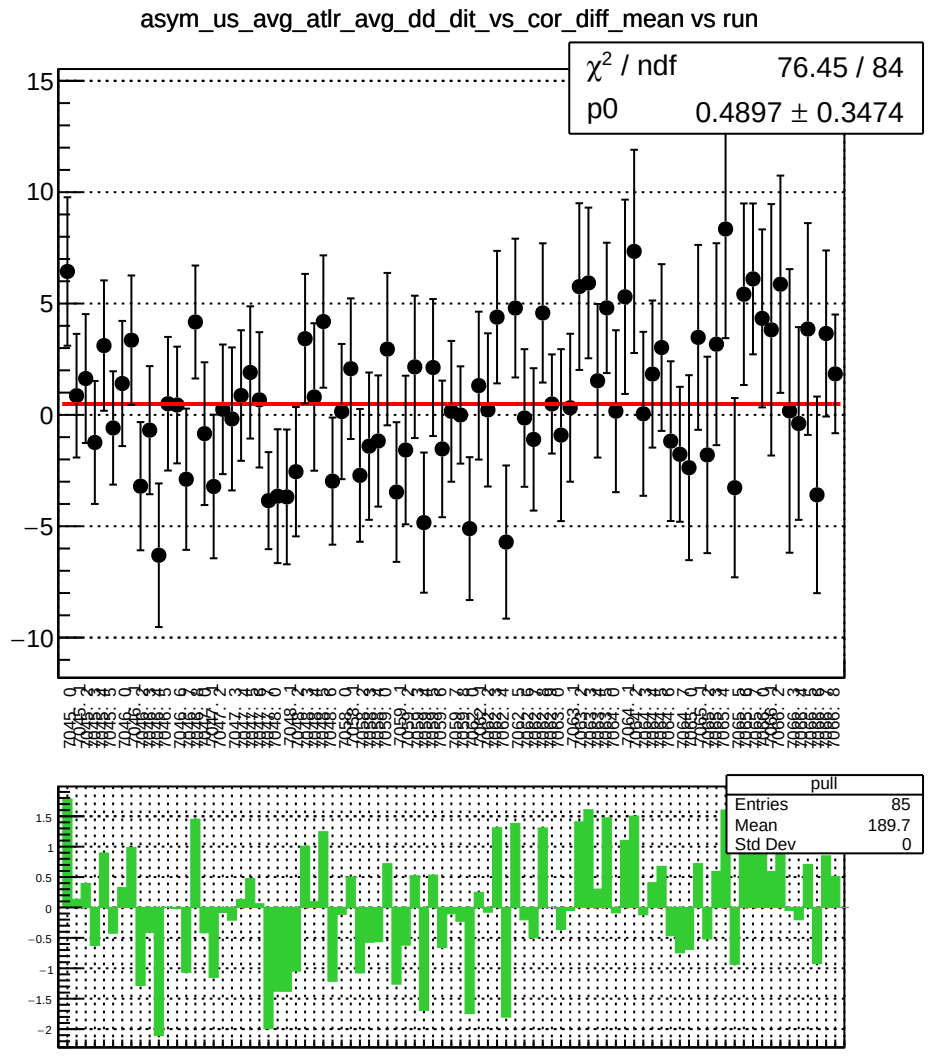

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 79.31 / 84
p0 −660.6 ± 4569
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 179.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.04412
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

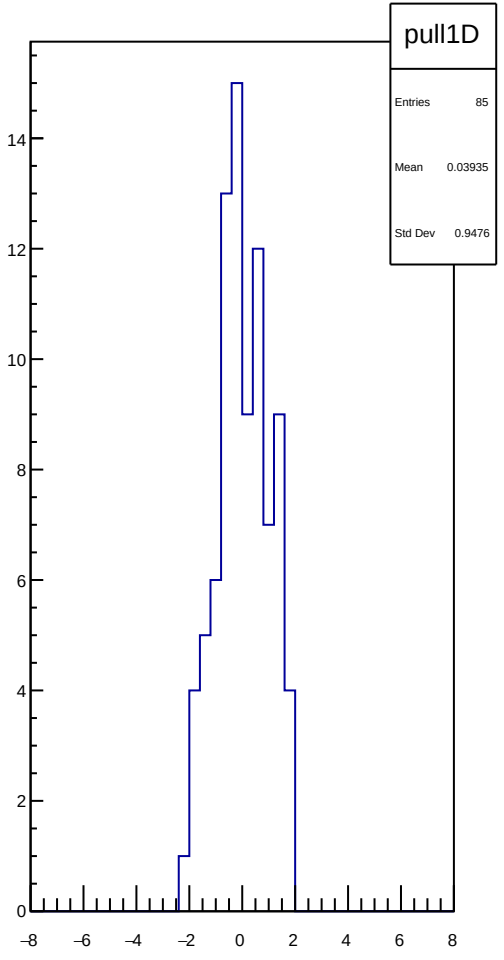

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2.936e+04 / 84
p0 4109 ± 3.231
5500
5000
4500
4000
3500

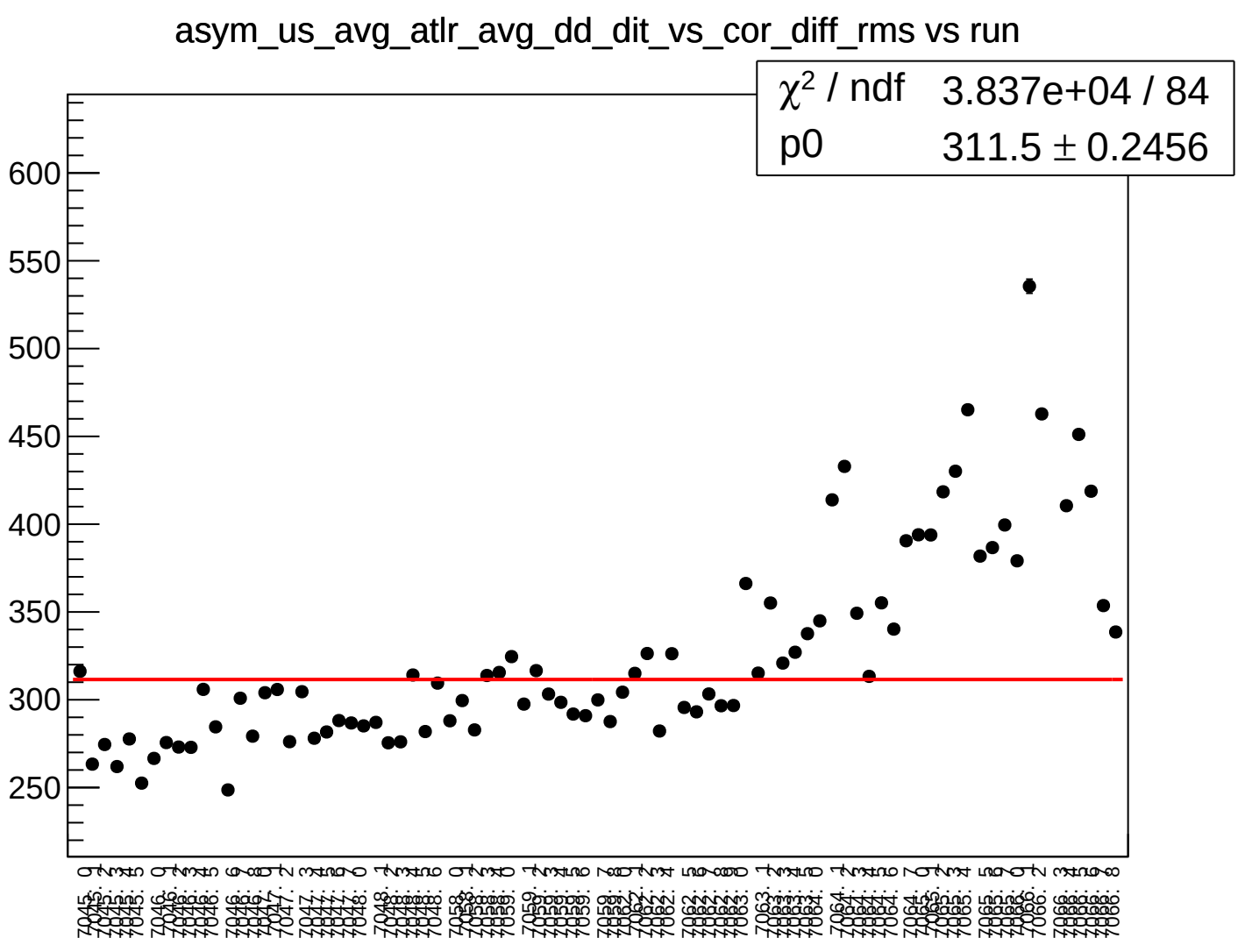

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 84
p0 −1.199e−13 ± 1.226e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean 33.41
Std Dev 18.65
2
1
0
−1
−2

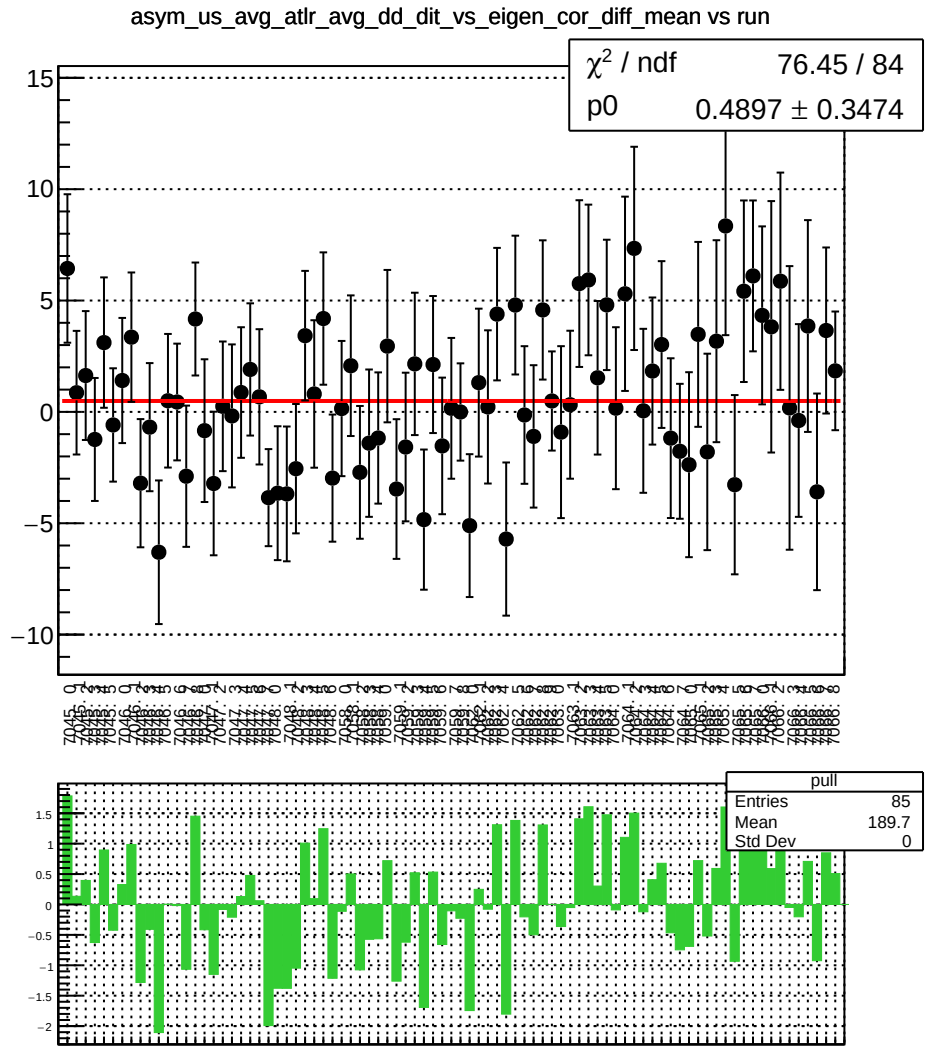

pull1D
Entries 85
Mean −0.09137
Std Dev 0.9632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

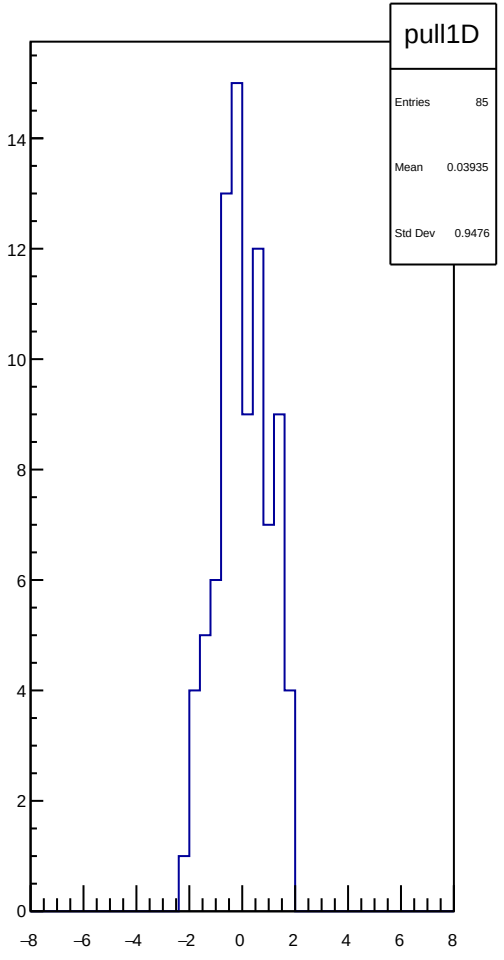

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.169e+05 / 84
p0 7.409e−11 ± 8.67e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

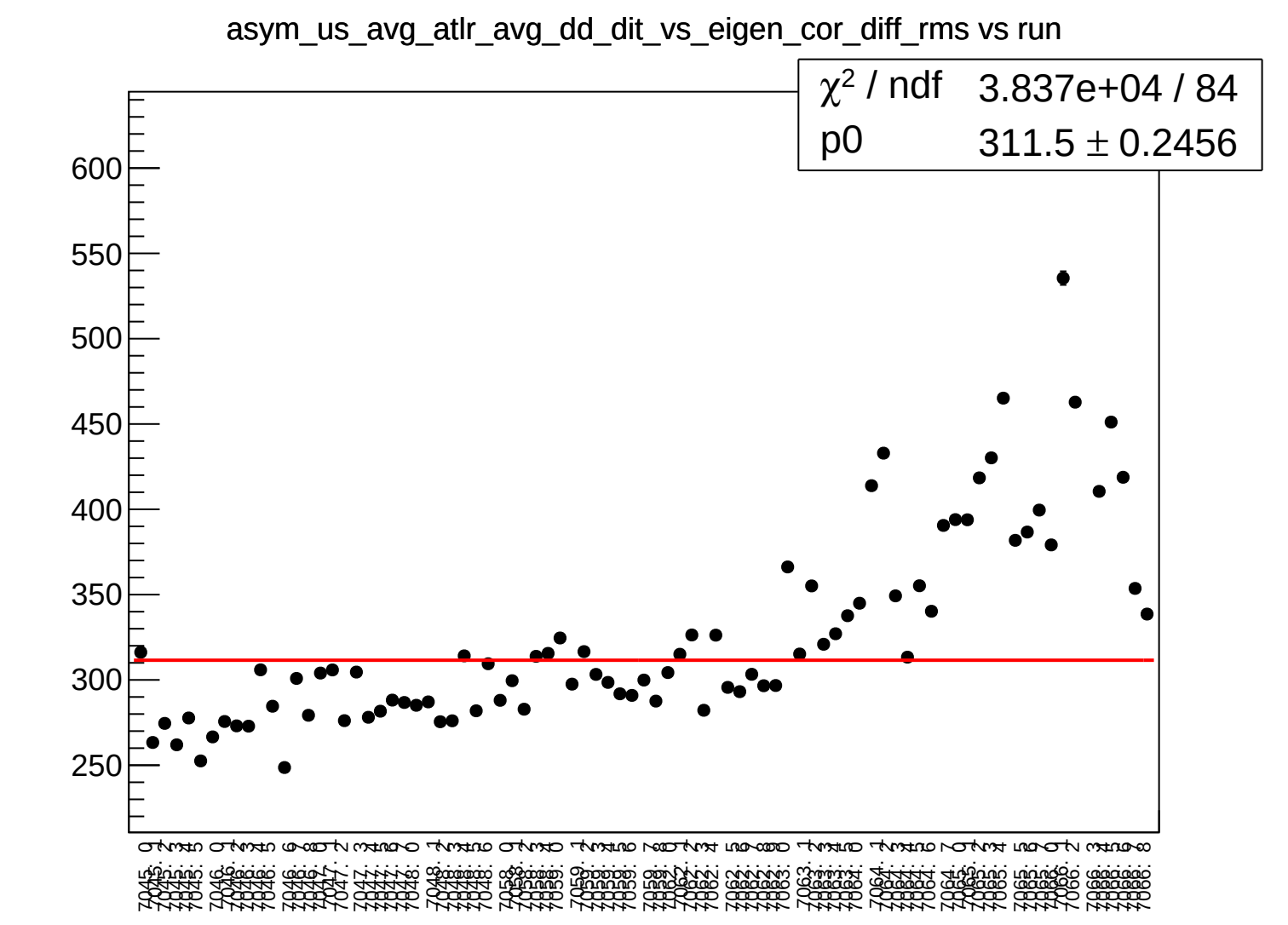

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.45 / 84
p0 0.4897 ± 0.3474
pull
Entries 85
Mean 189.7
Std Dev 0

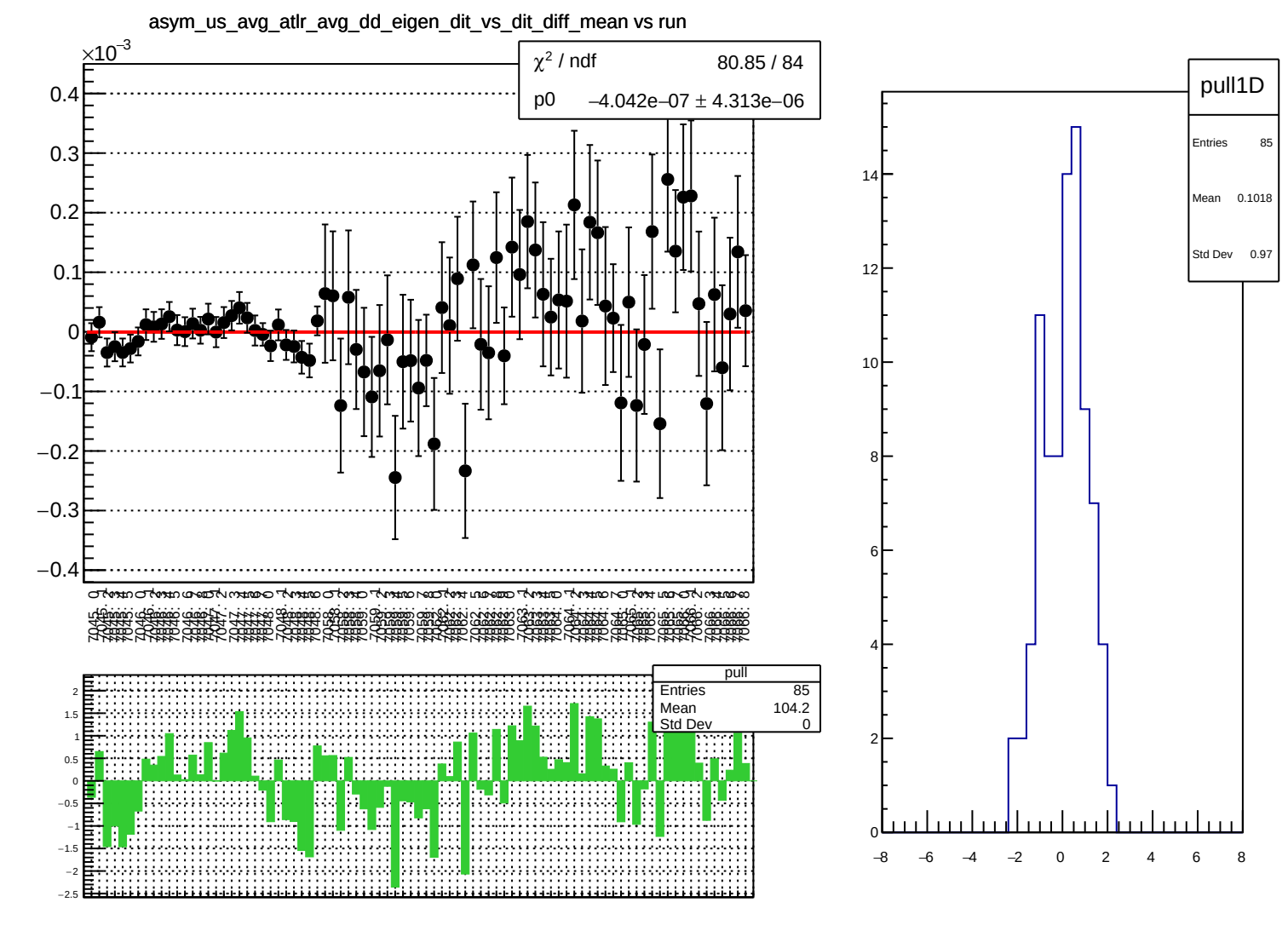

pull1D
Entries 85
Mean 0.03935
Std Dev 0.9476

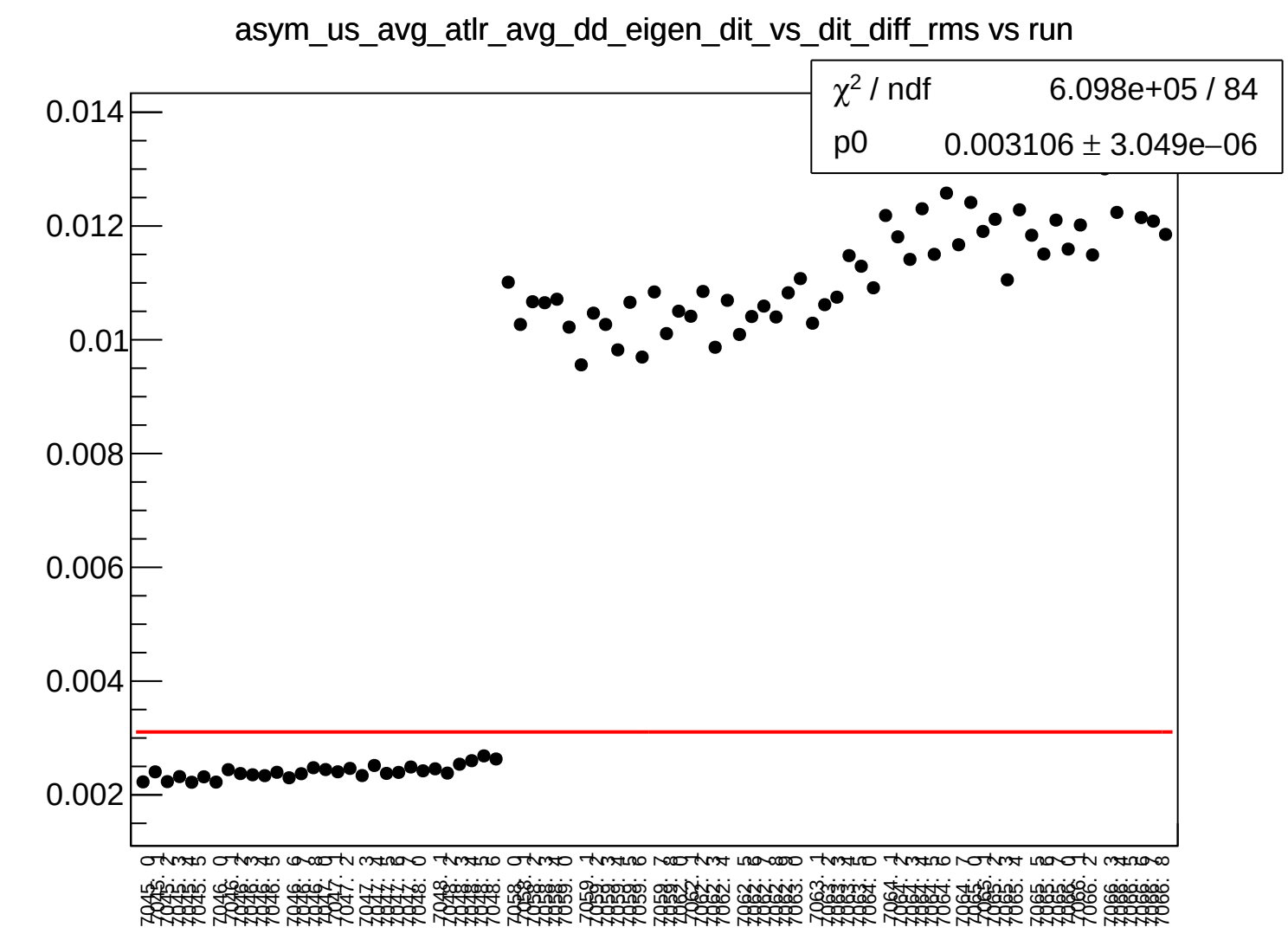

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.837e+04 / 84
p0 311.5 ± 0.2456
600
550
500
450
400
350
300
250

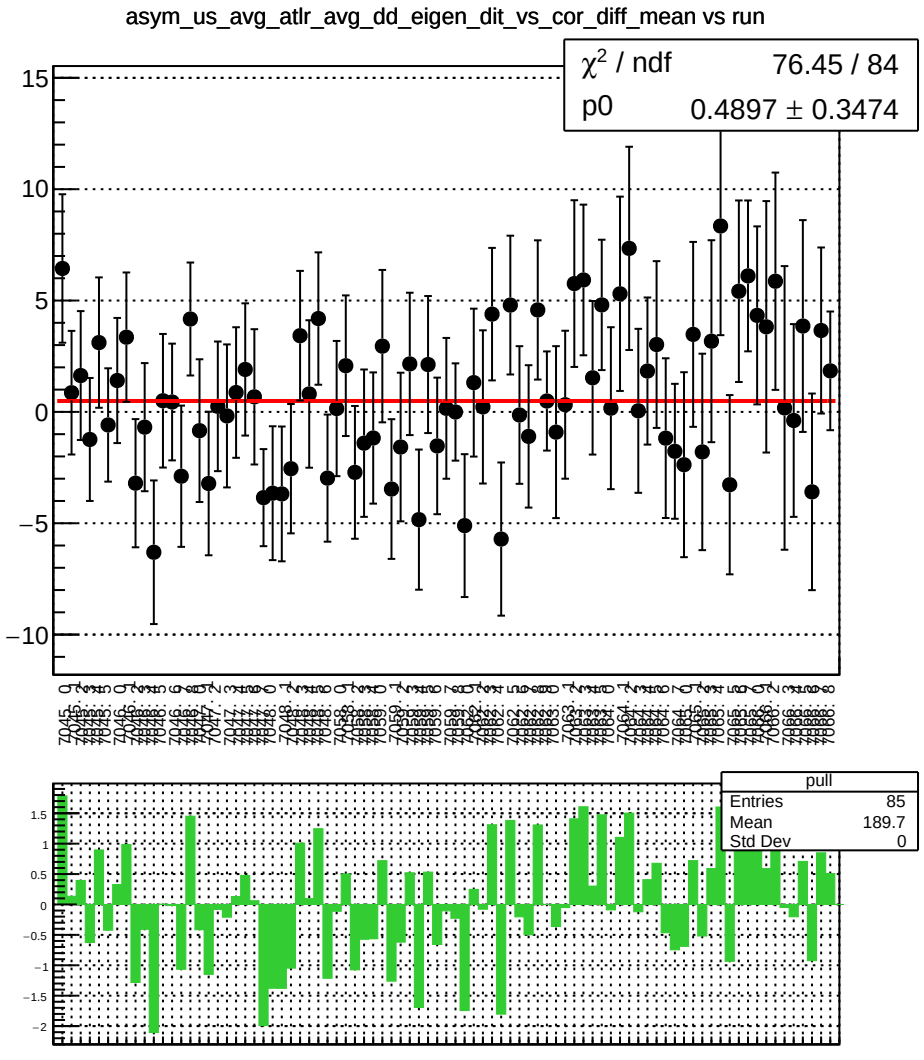

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.45 / 84
p0 0.4897 ± 0.3474
pull
Entries 85
Mean 189.7
Std Dev 0

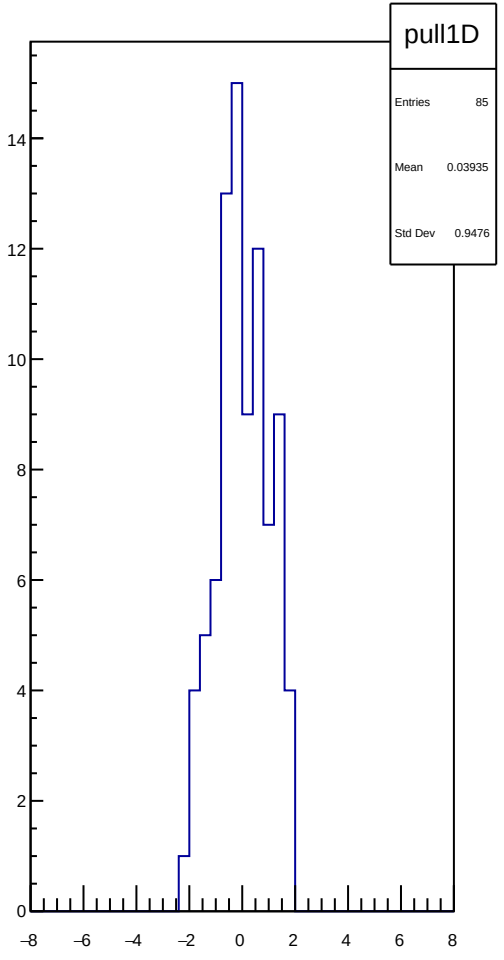

pull1D
Entries 85
Mean 0.03935
Std Dev 0.9476

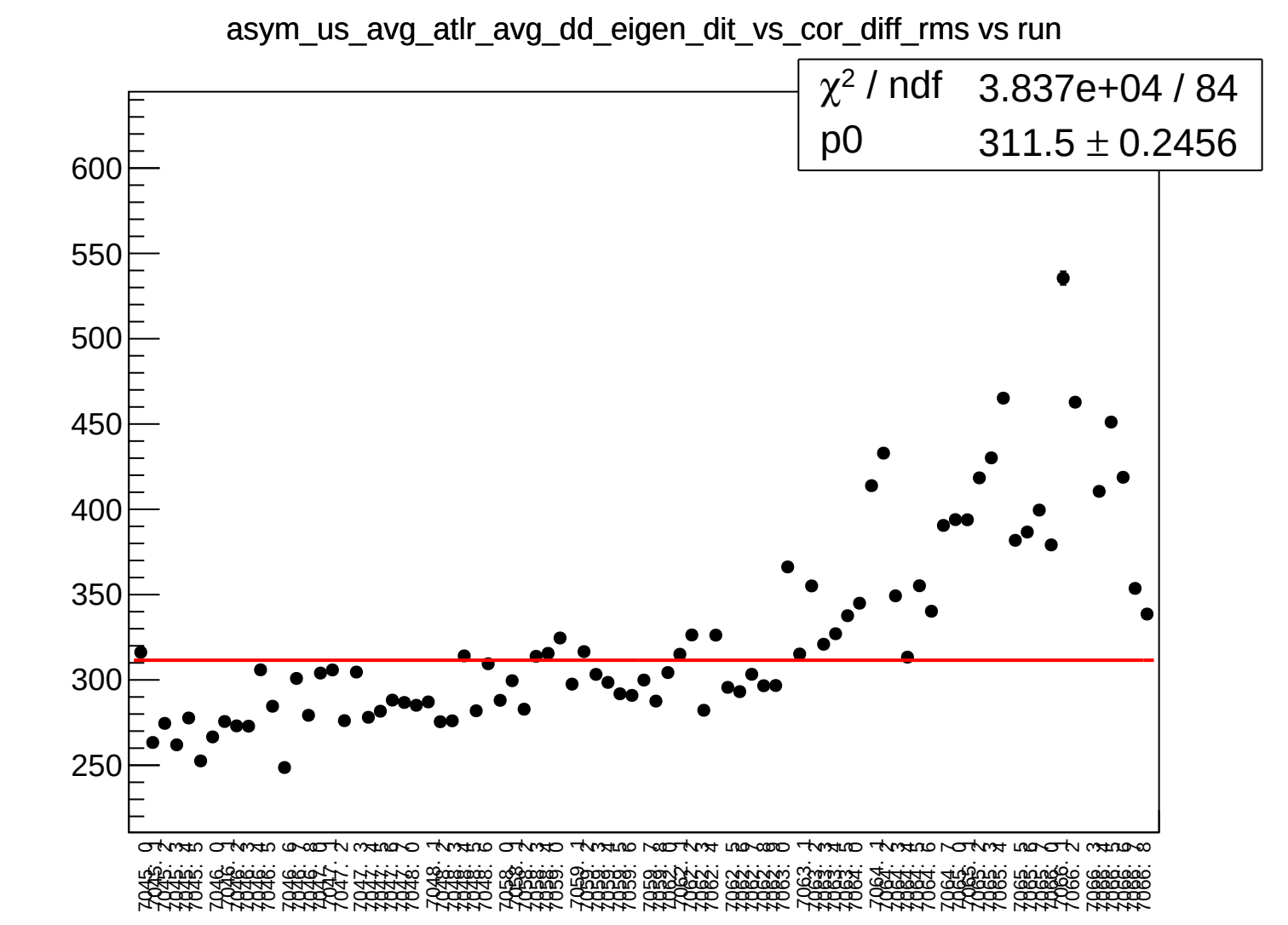

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.837e+04 / 84
p0 311.5 ± 0.2456
600
550
500
450
400
350
300
250

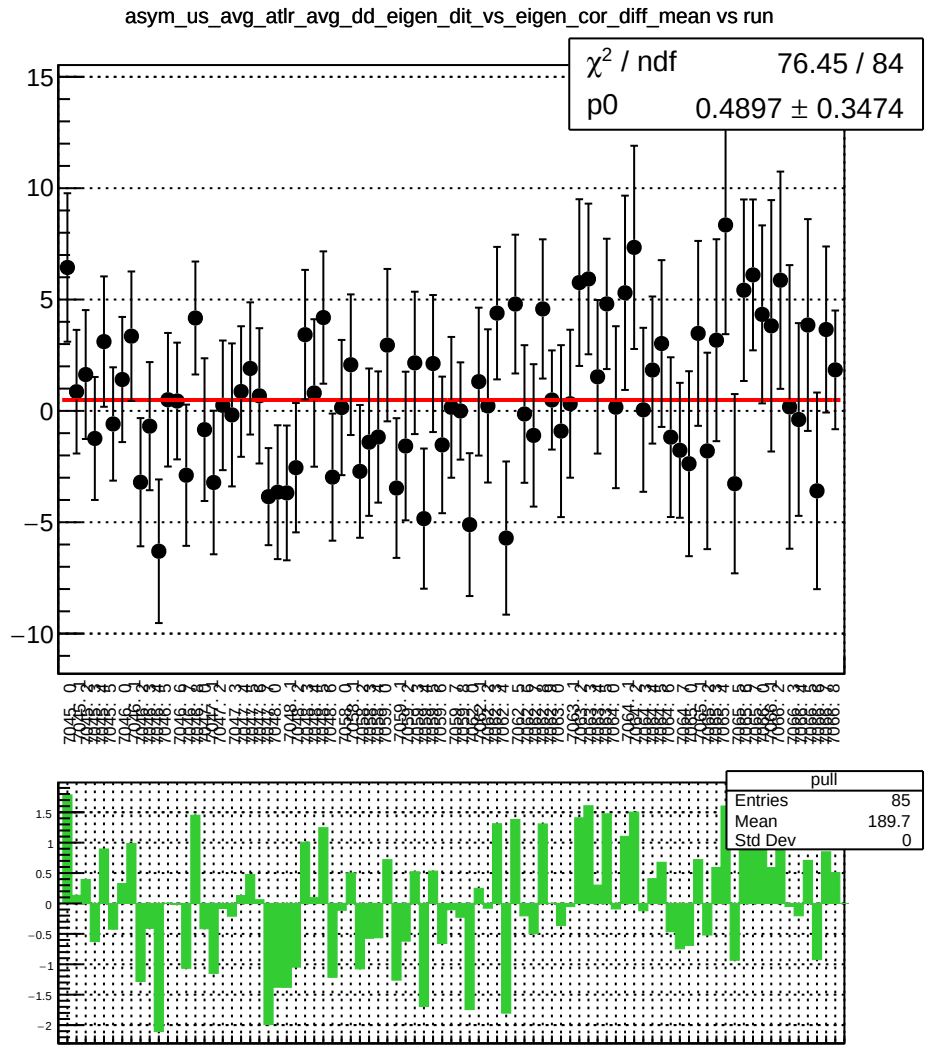

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.85 / 84
p0 −4.042e−07 ± 4.313e−06
pull
Entries 85
Mean 104.2
Std Dev 0
pull1D
Entries 85
Mean 0.1018
Std Dev 0.97

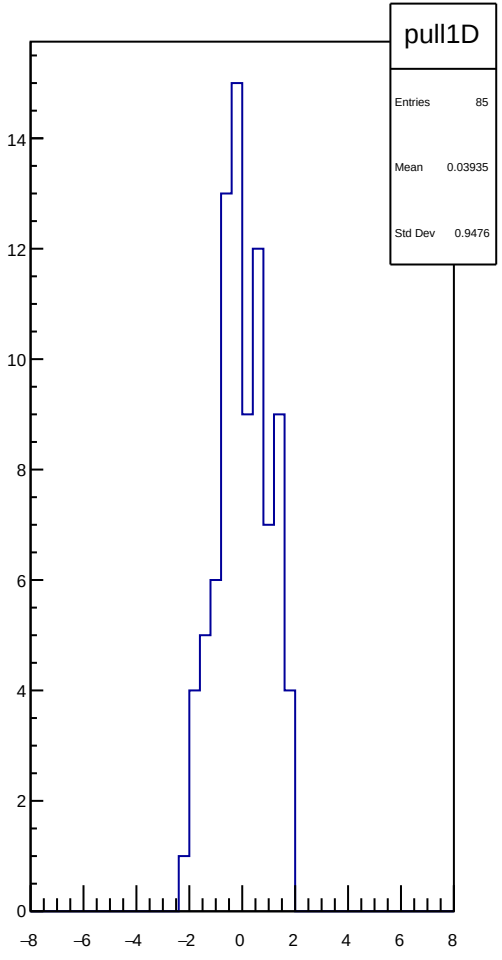

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.098e+05 / 84
p0 0.003106 ± 3.049e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

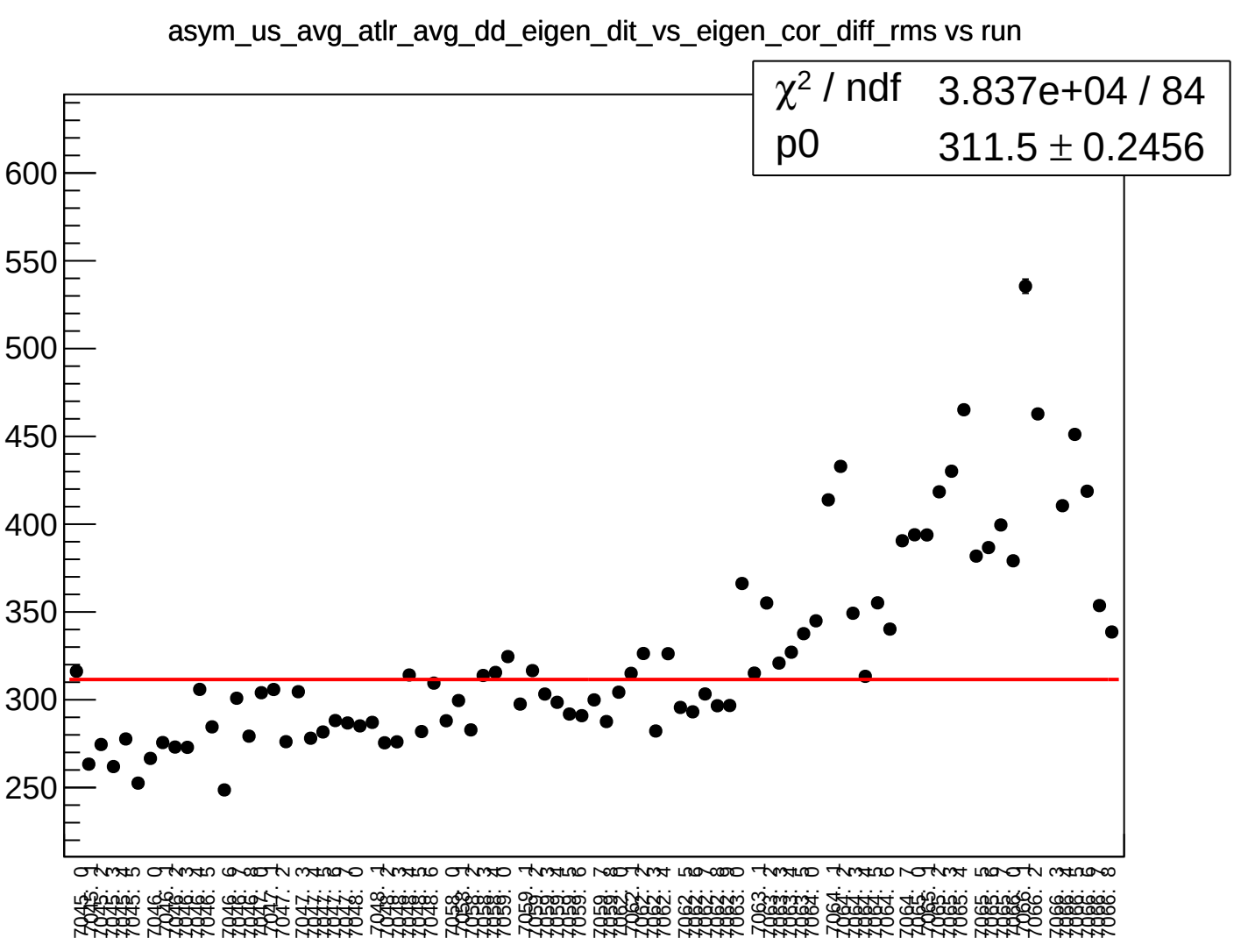

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.45 / 84
p0 0.4897 ± 0.3474
pull
Entries 85
Mean 189.7
Std Dev 0

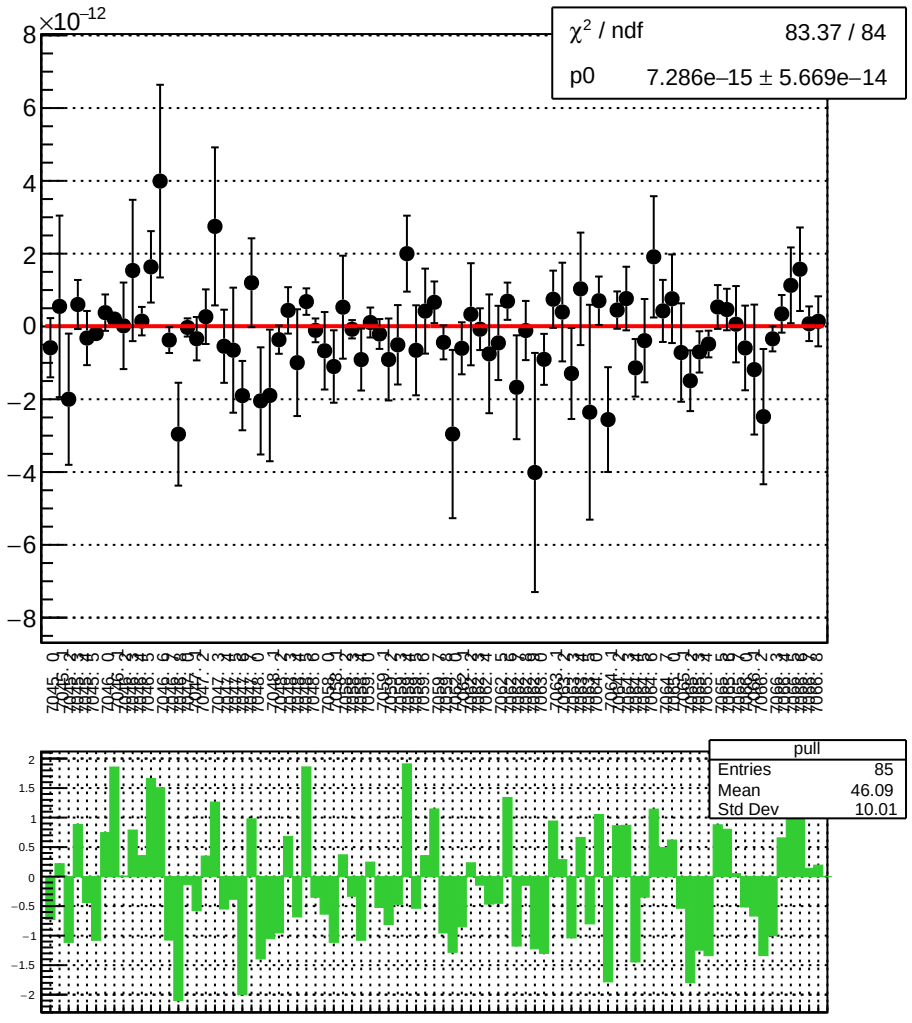

pull1D
Entries 85
Mean 0.03935
Std Dev 0.9476

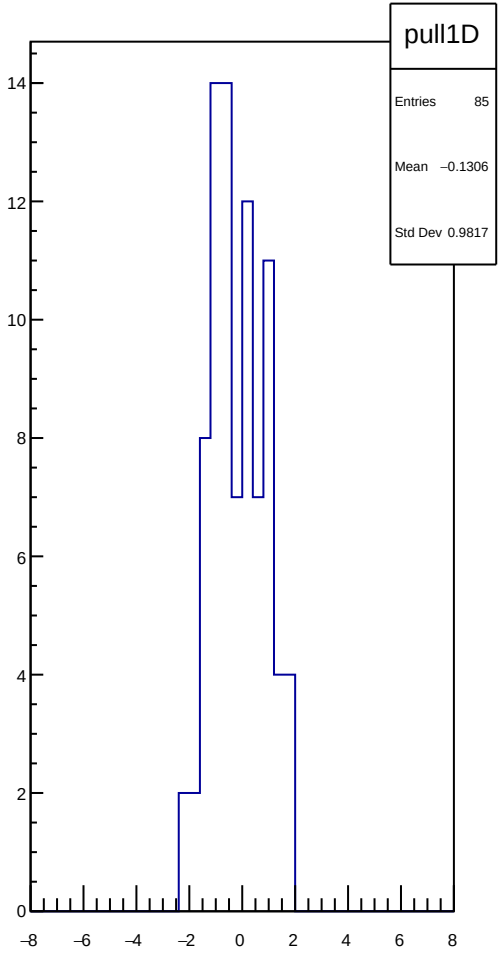

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.837e+04 / 84
p0 311.5 ± 0.2456
600
550
500
450
400
350
300
250

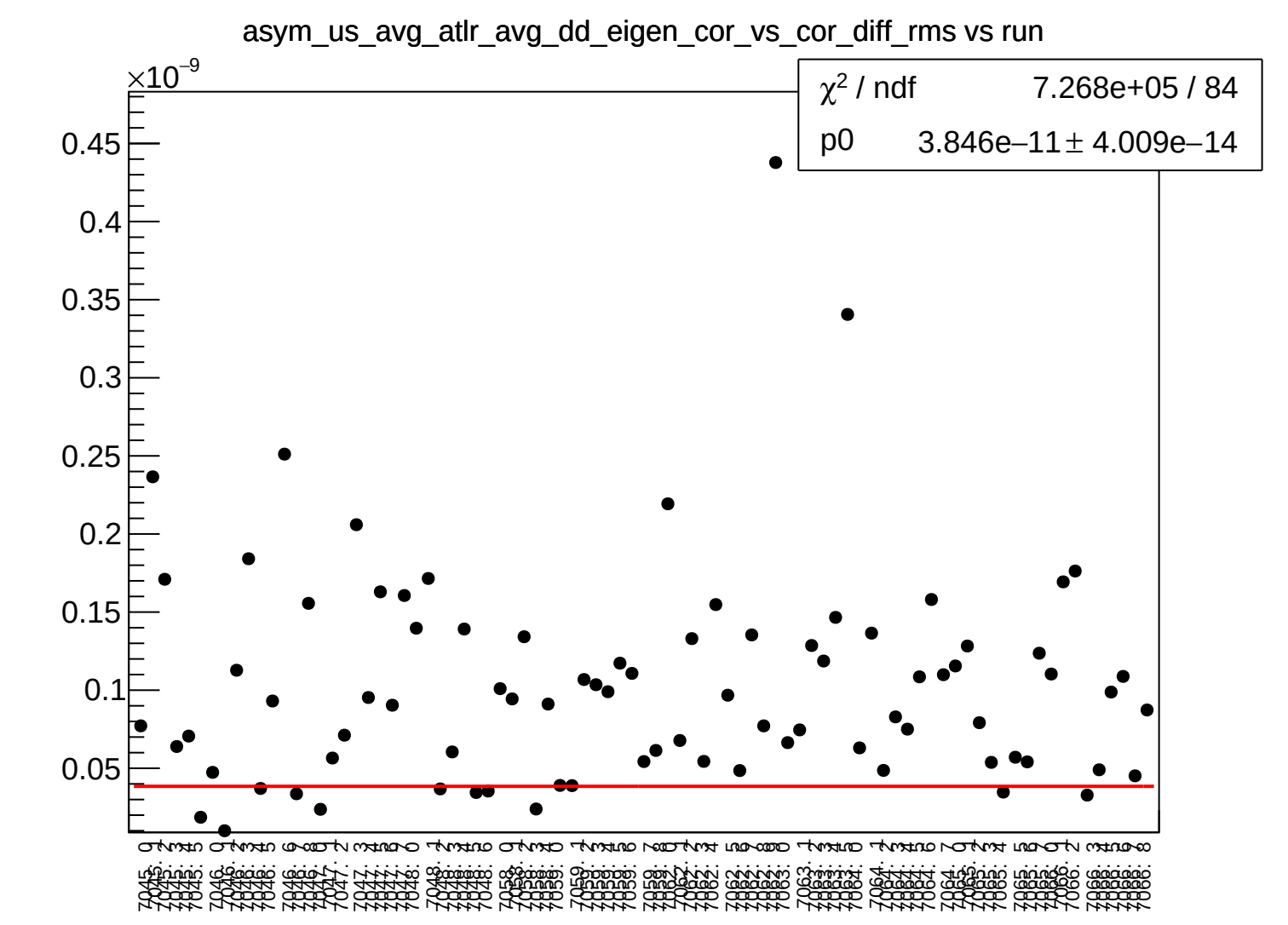

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.45 / 84
p0 0.4897 ± 0.3474
pull
Entries 85
Mean 189.7
Std Dev 0

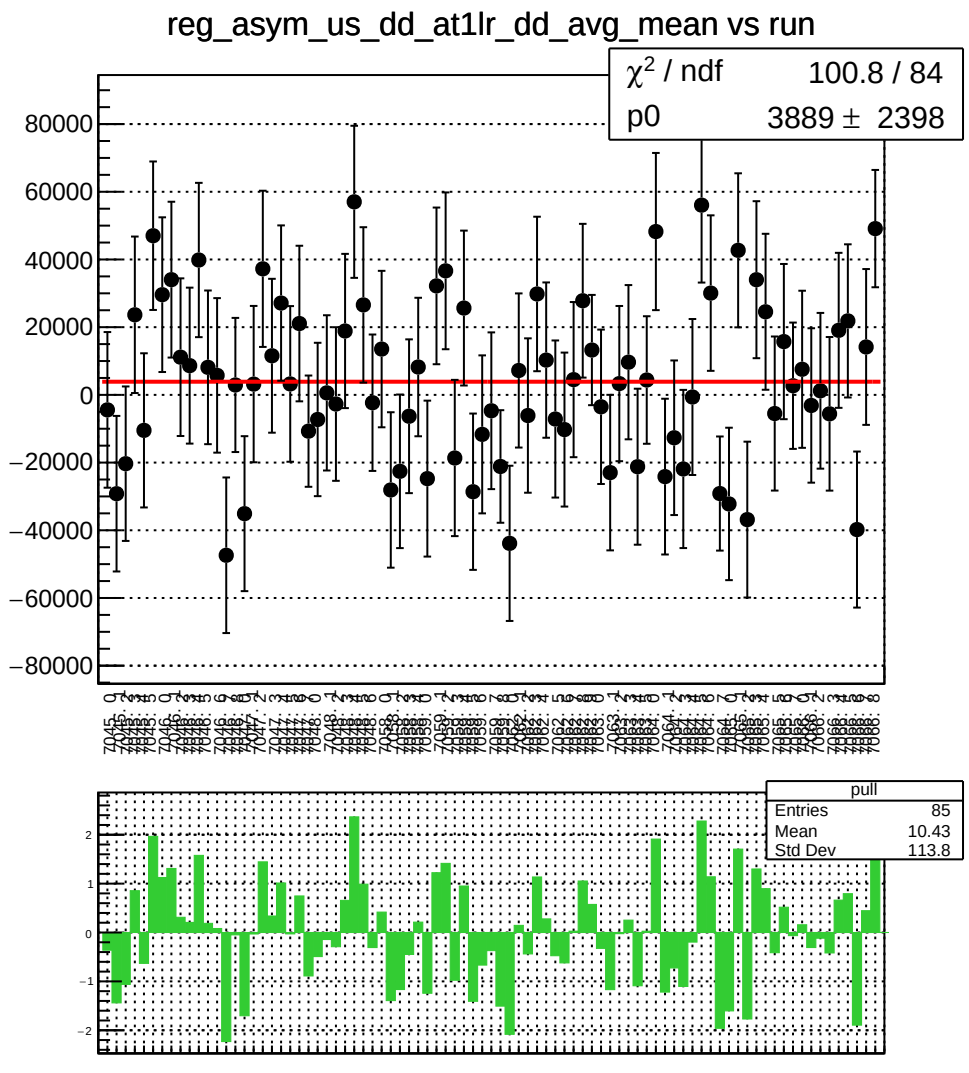

pull1D
Entries 85
Mean 0.03935
Std Dev 0.9476

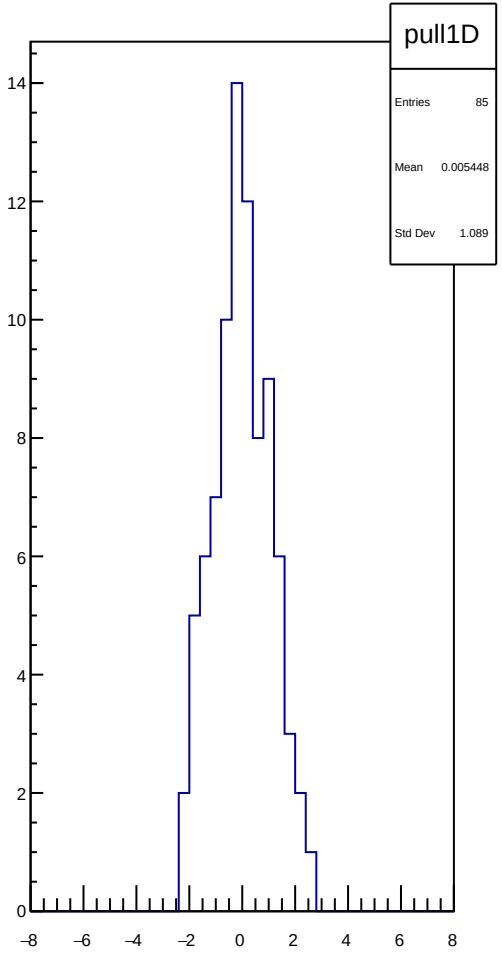

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.837e+04 / 84
p0 311.5 ± 0.2456
600
550
500
450
400
350
300
250

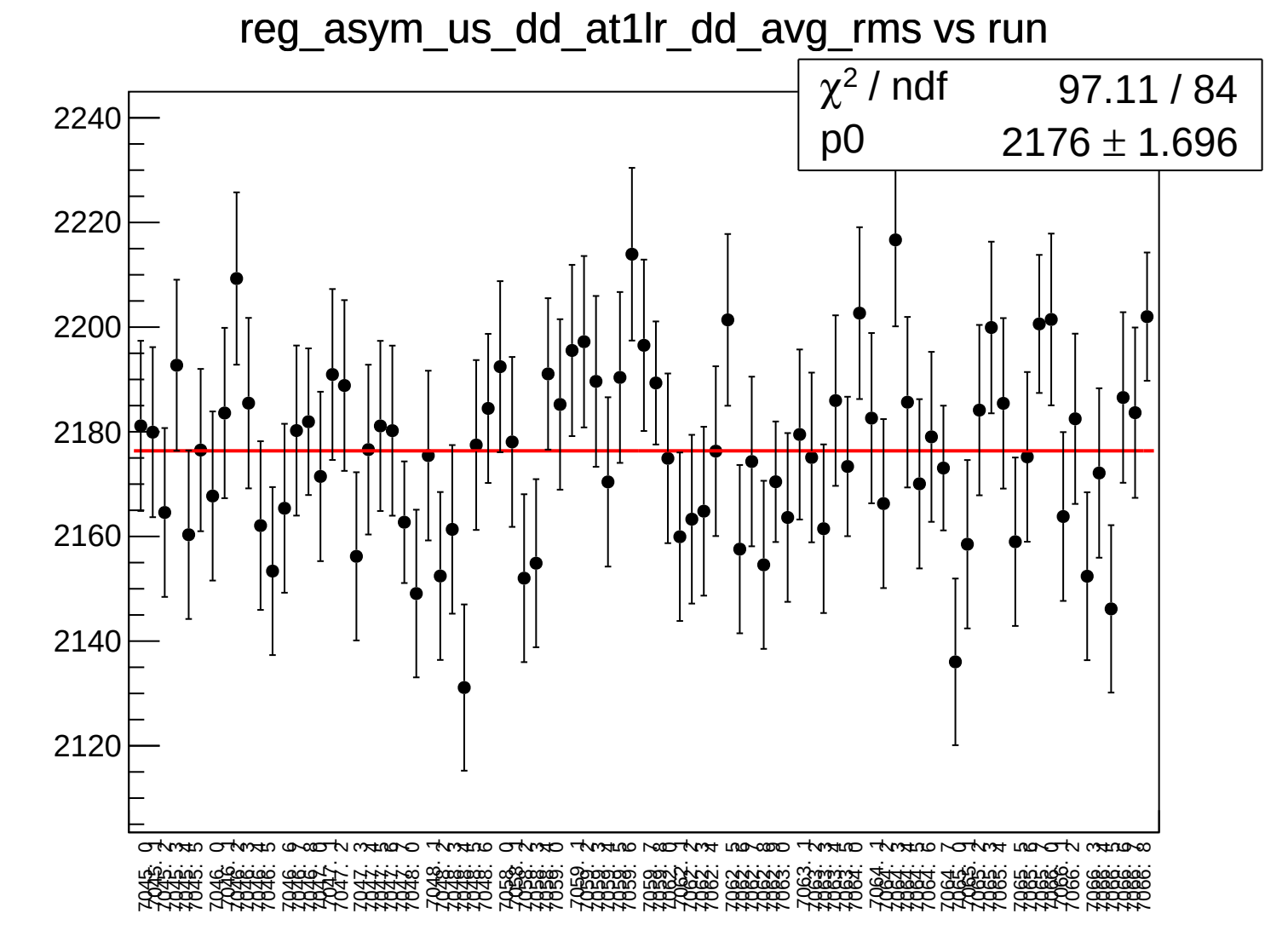

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.37 / 84
p0 7.286e−15 ± 5.669e−14
pull
Entries 85
Mean 46.09
Std Dev 10.01

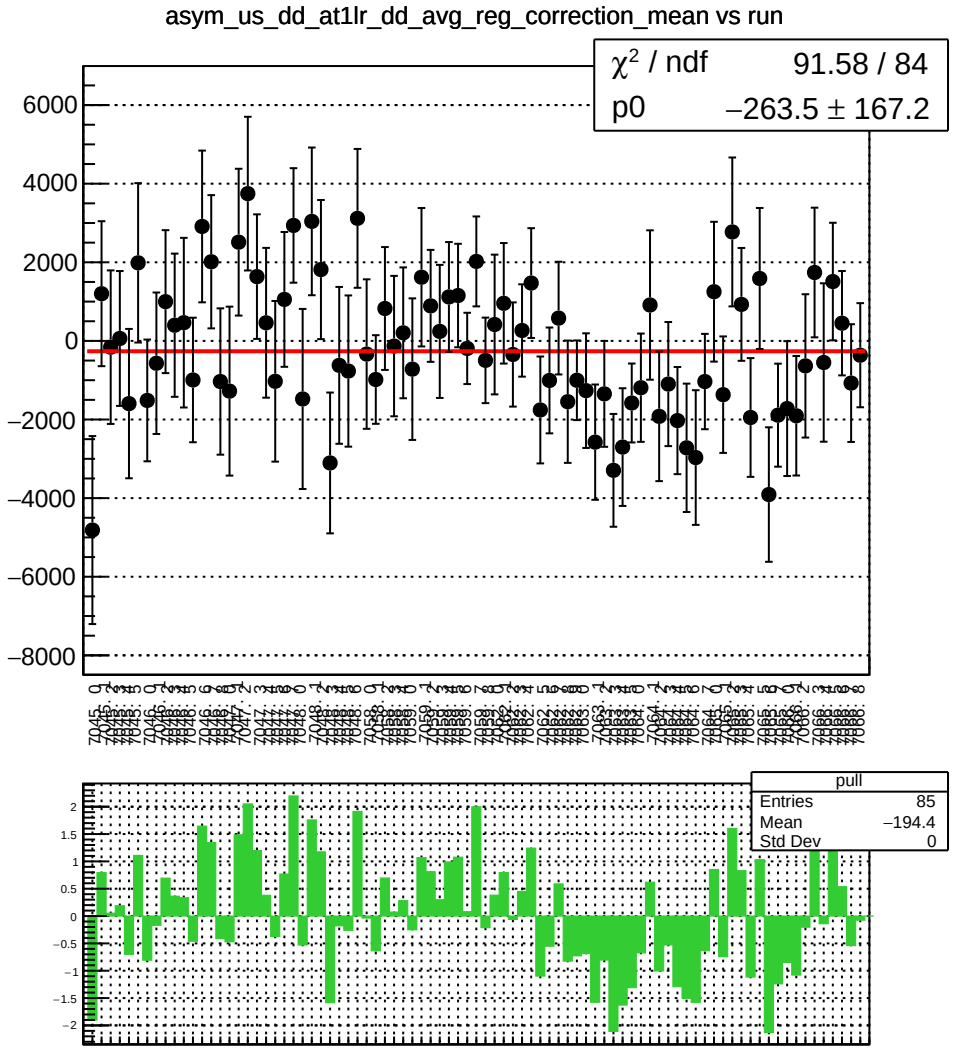

pull1D
Entries 85
Mean −0.1306
Std Dev 0.9817

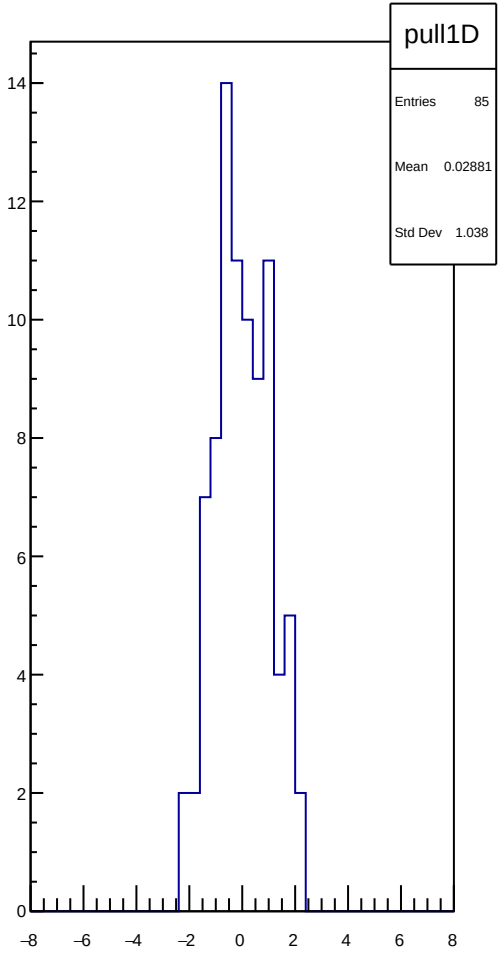

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.268e+05 / 84
p0 3.846e−11 ± 4.009e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

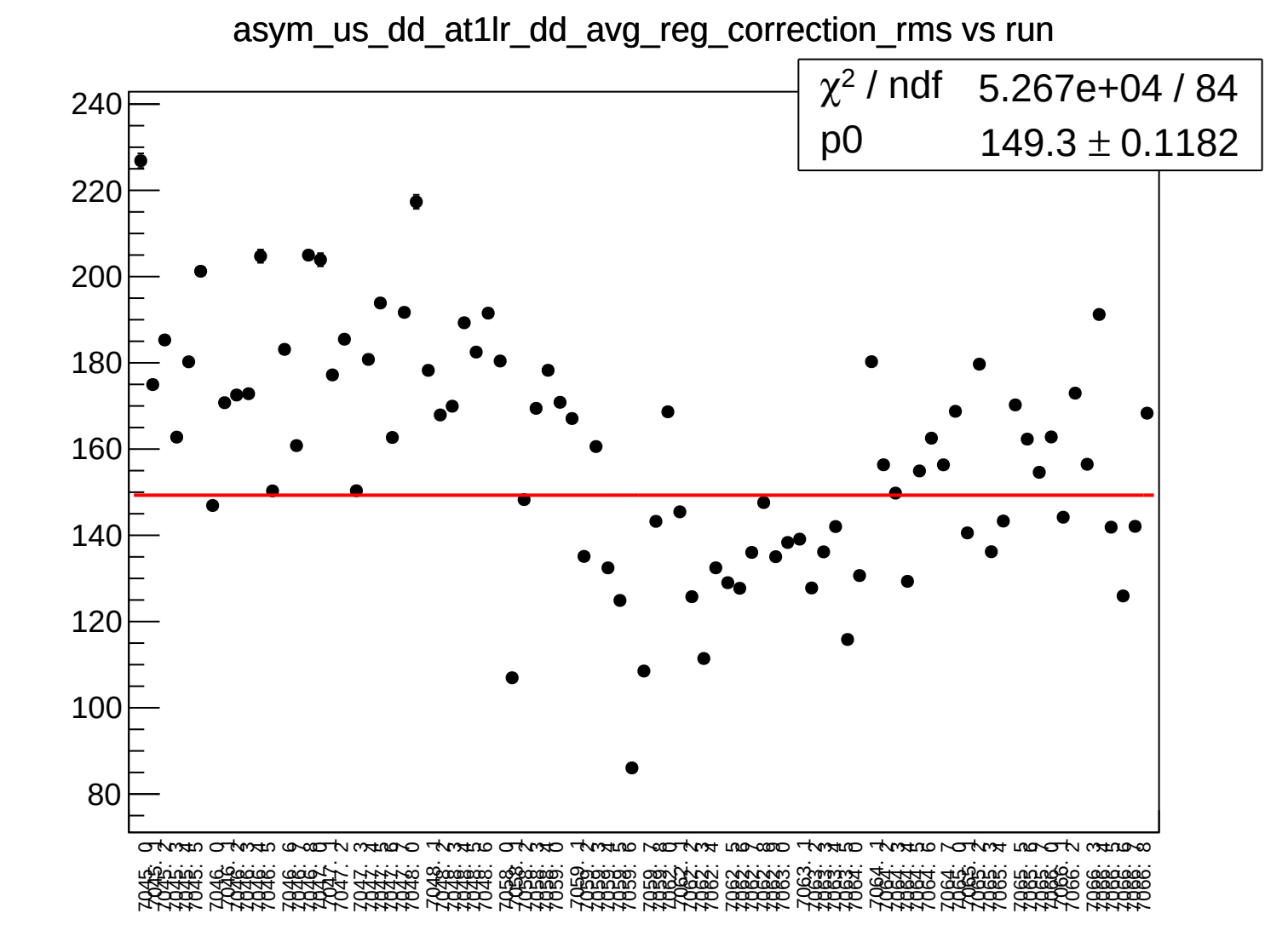

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.8 / 84
p0 3889 ± 2398
pull
Entries 85
Mean 10.43
Std Dev 113.8

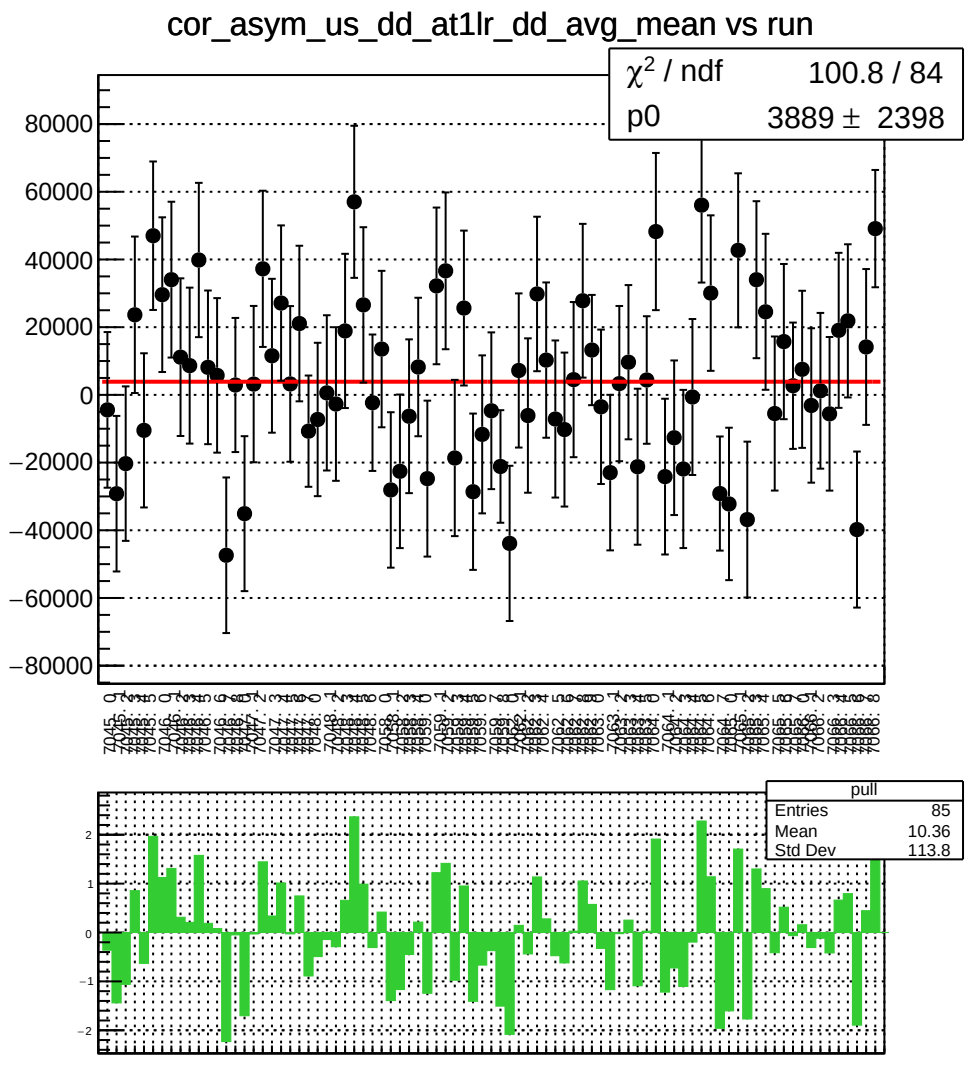

pull1D
Entries 85
Mean 0.005448
Std Dev 1.089

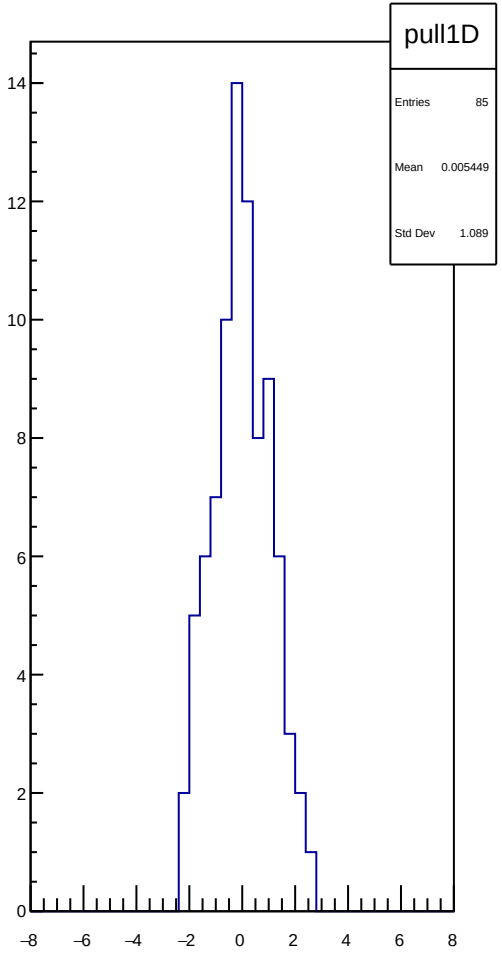

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.11 / 84
p0 2176 ± 1.696
2240
2220
2200
2180
2160
2140
2120

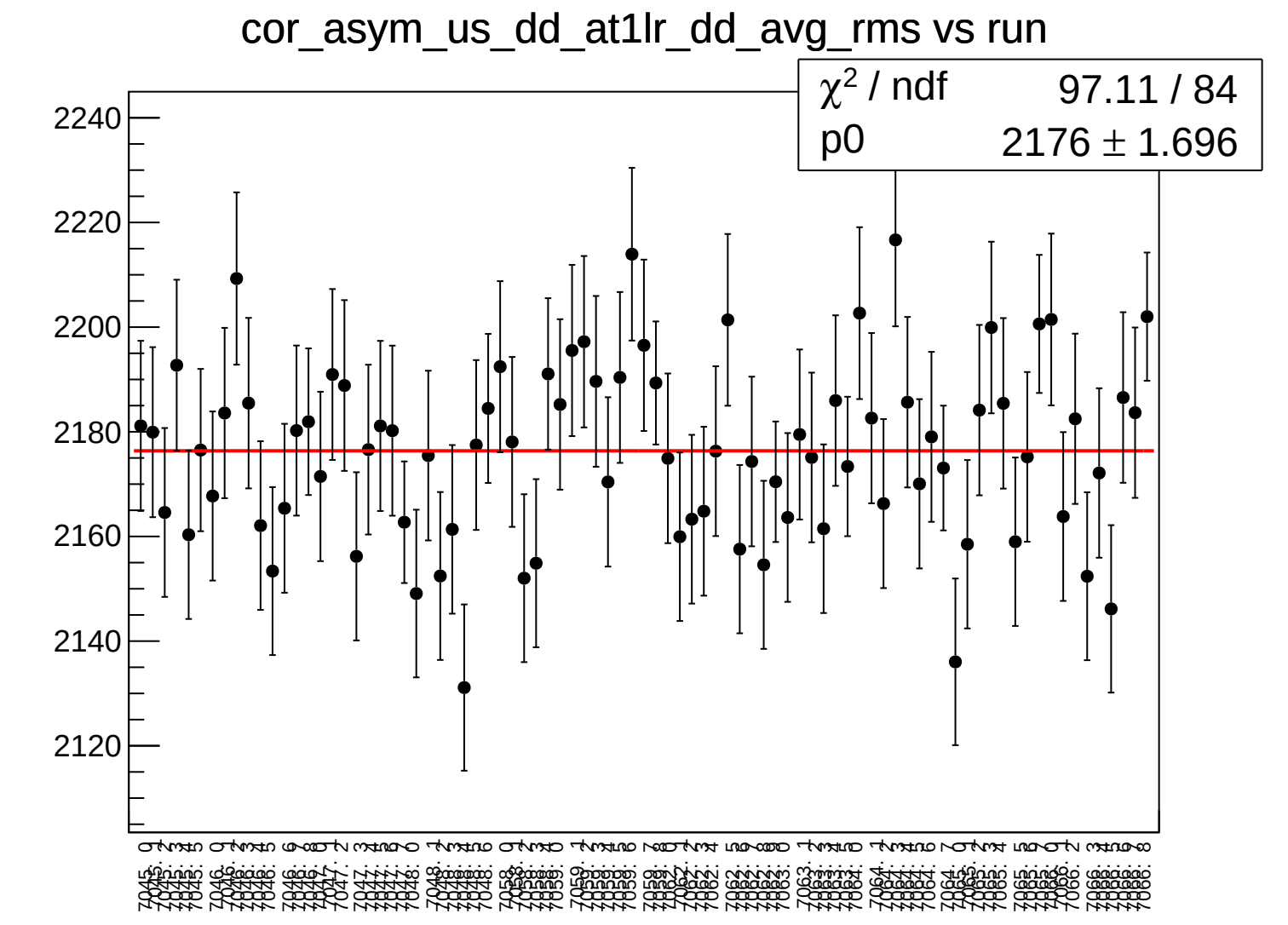

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 91.58 / 84
p0 −263.5 ± 167.2
pull
Entries 85
Mean −194.4
Std Dev 0

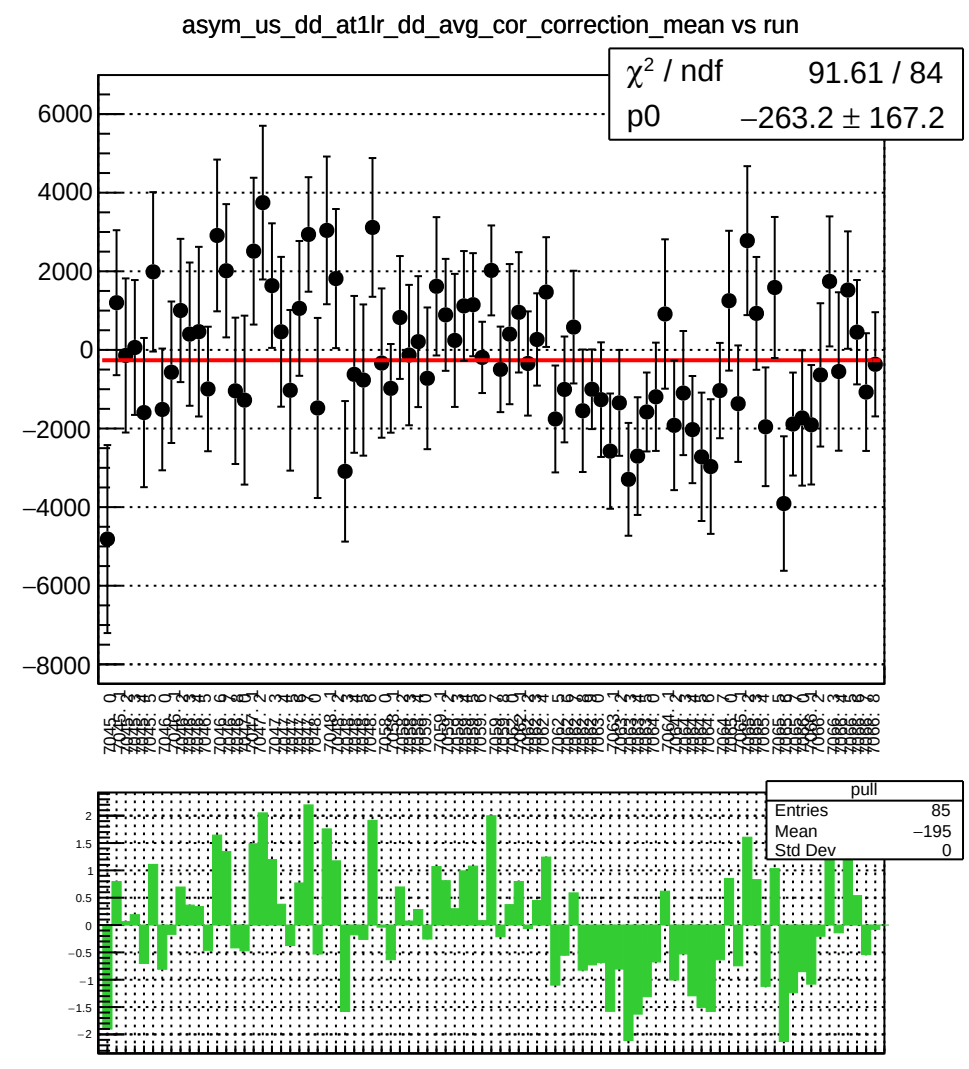

pull1D
Entries 85
Mean 0.02881
Std Dev 1.038

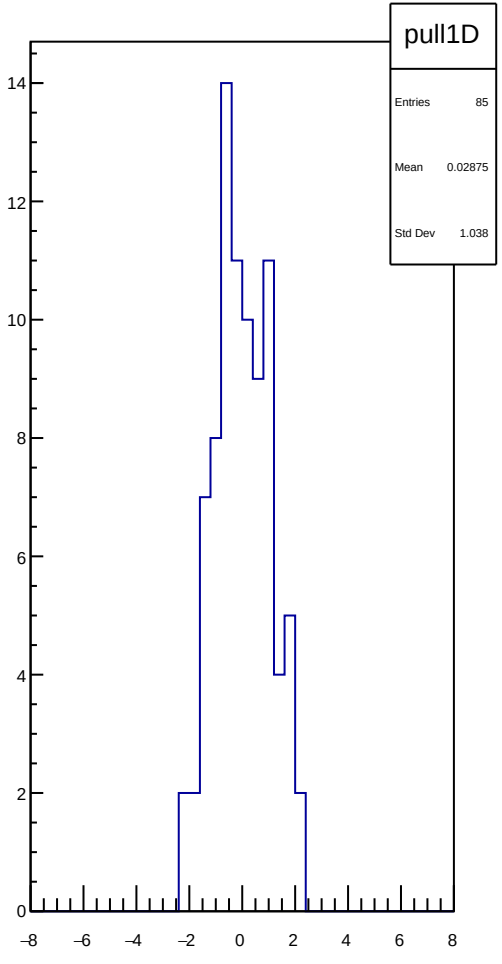

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.267e+04 / 84
p0 149.3 ± 0.1182
240
220
200
180
160
140
120
100
80

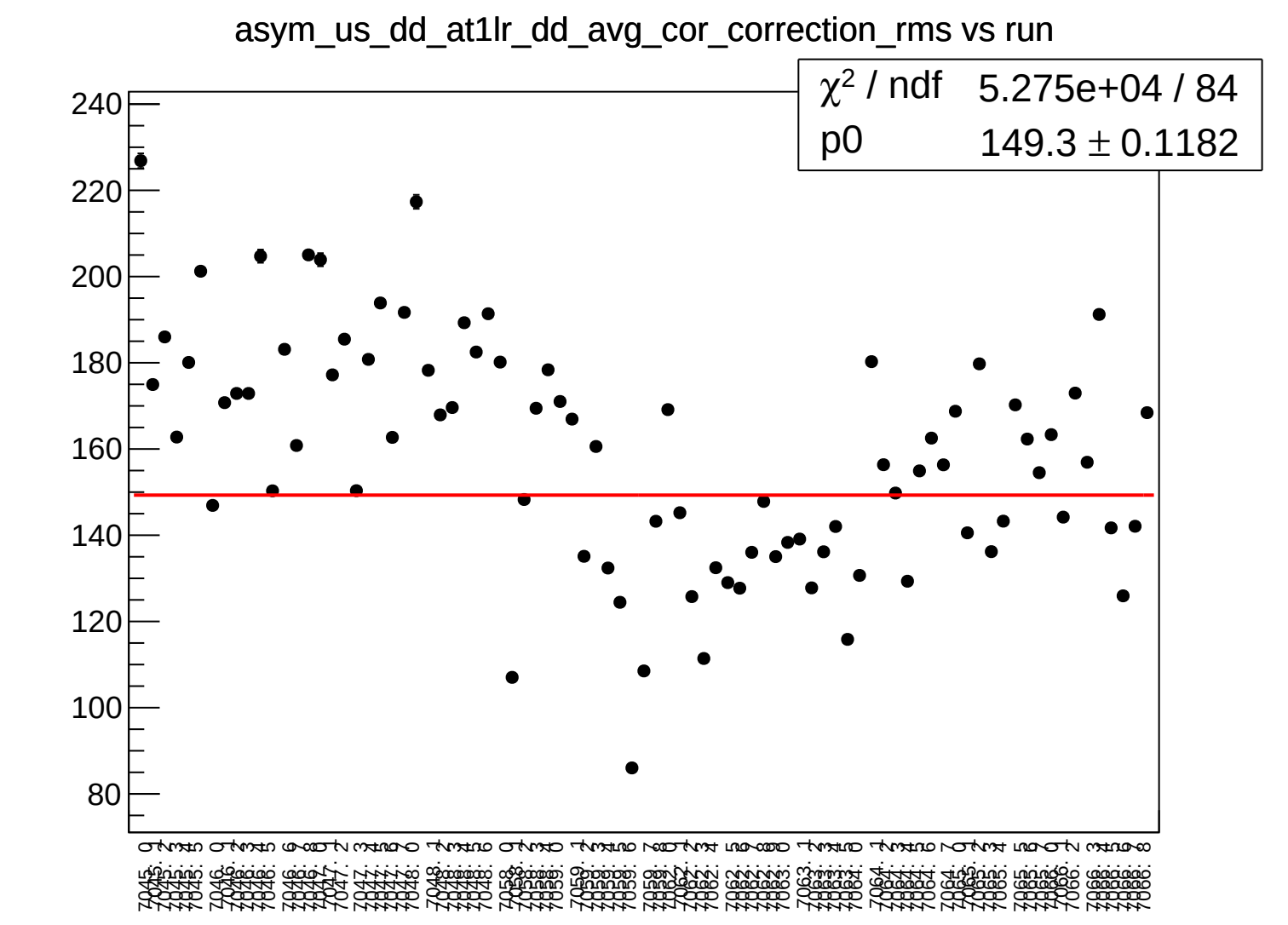

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.8 / 84
p0 3889 ± 2398
pull
Entries 85
Mean 10.36
Std Dev 113.8

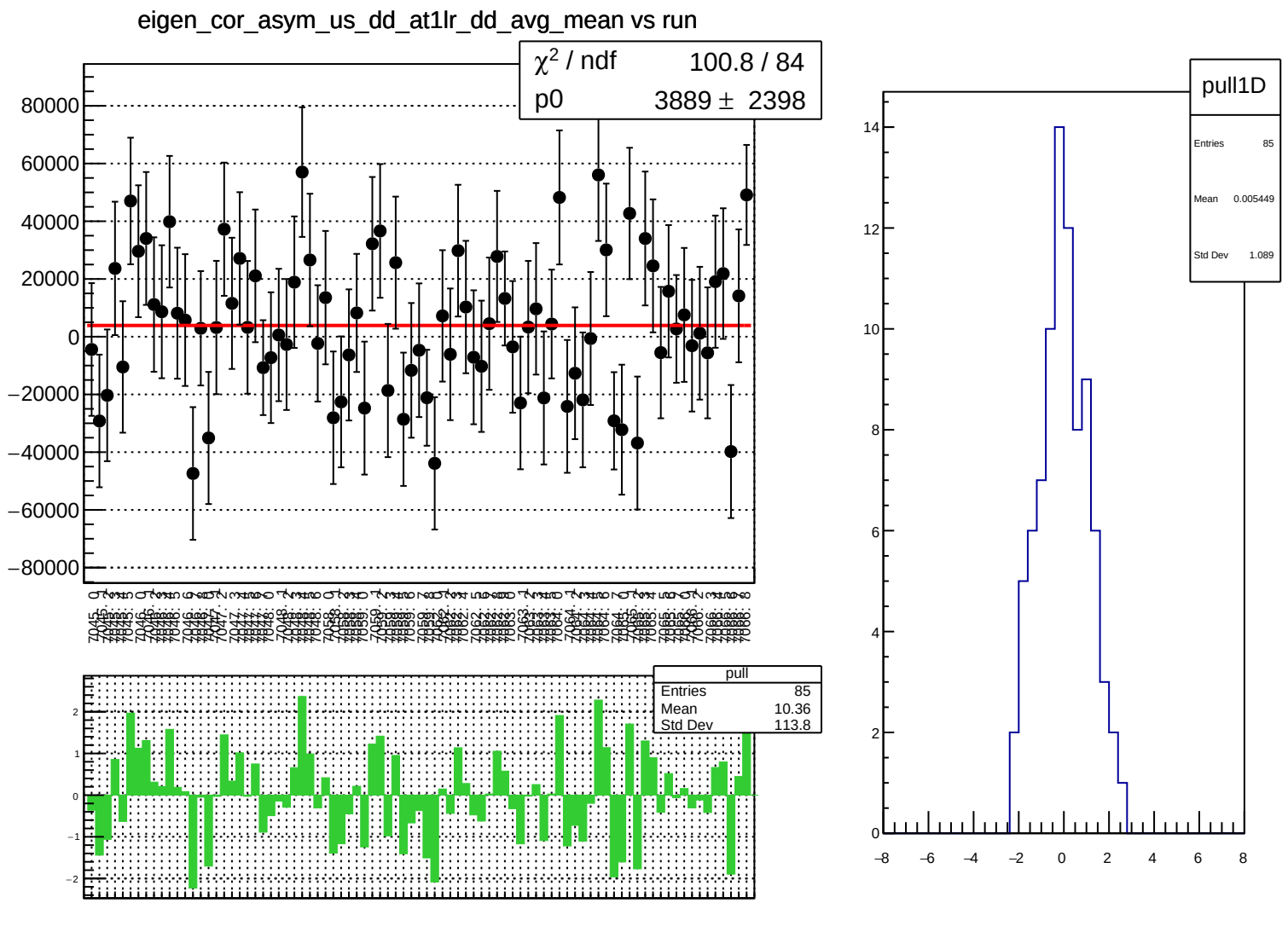

pull1D
Entries 85
Mean 0.005449
Std Dev 1.089

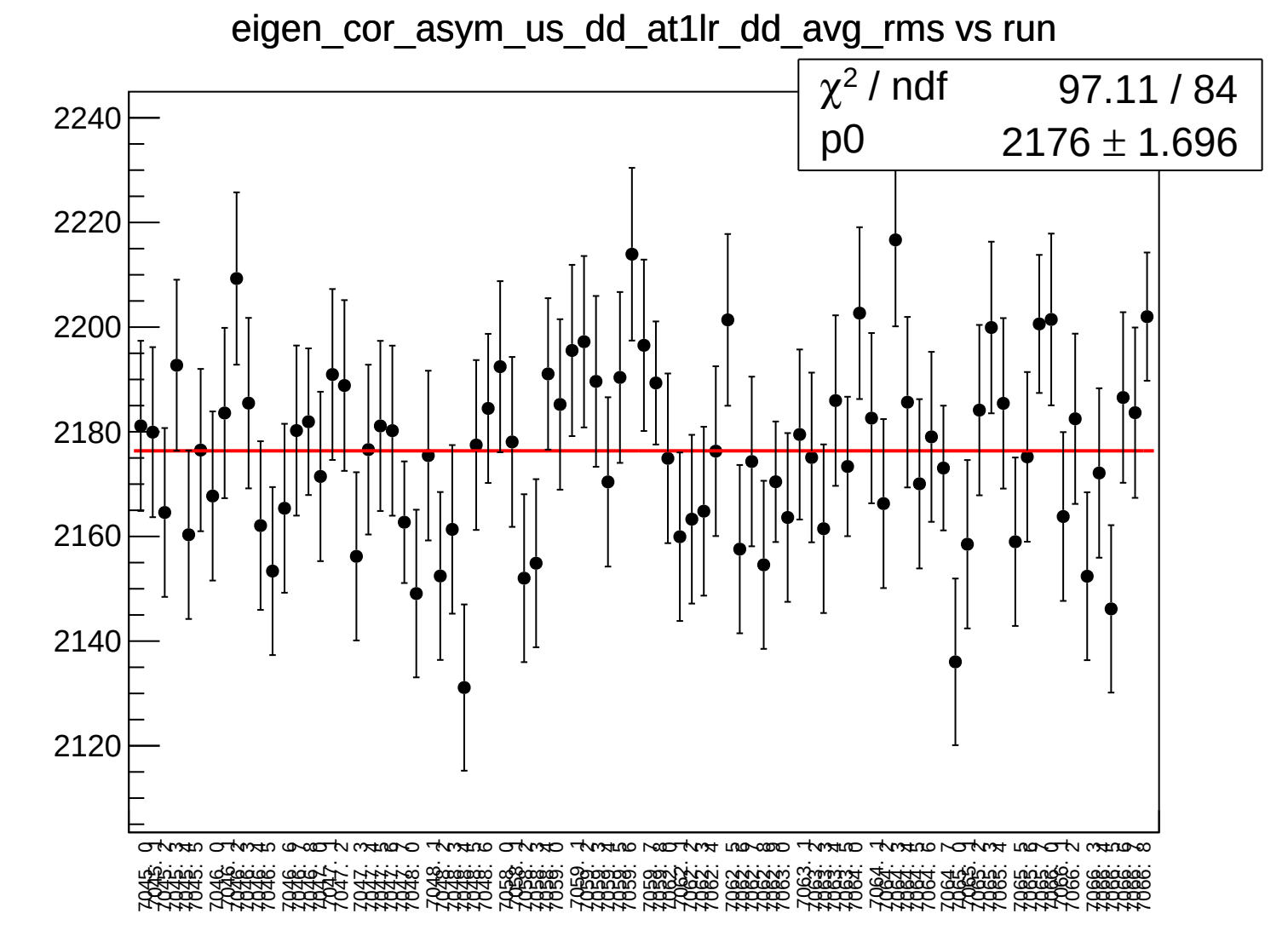

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 97.11 / 84
p0 2176 ± 1.696
2240
2220
2200
2180
2160
2140
2120

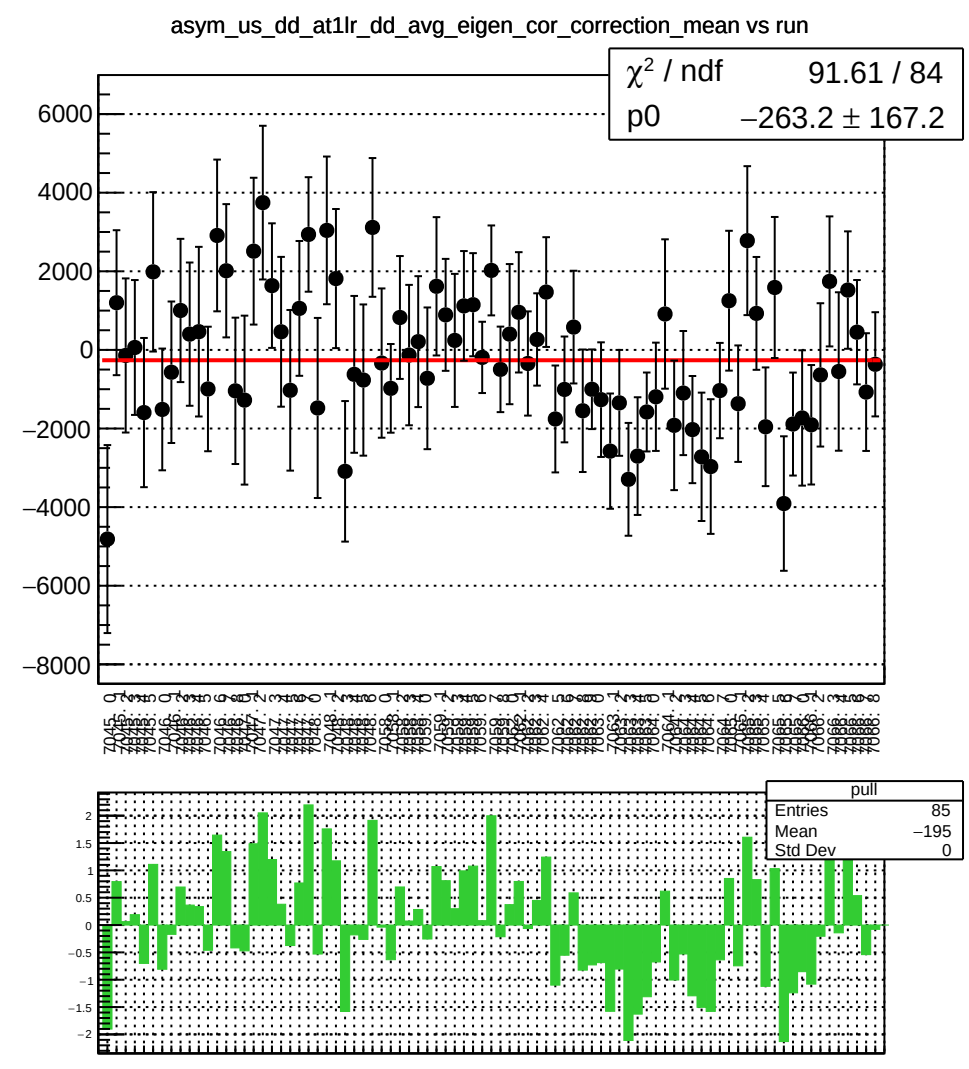

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 91.61 / 84
p0 −263.2 ± 167.2
pull
Entries 85
Mean −195
Std Dev 0

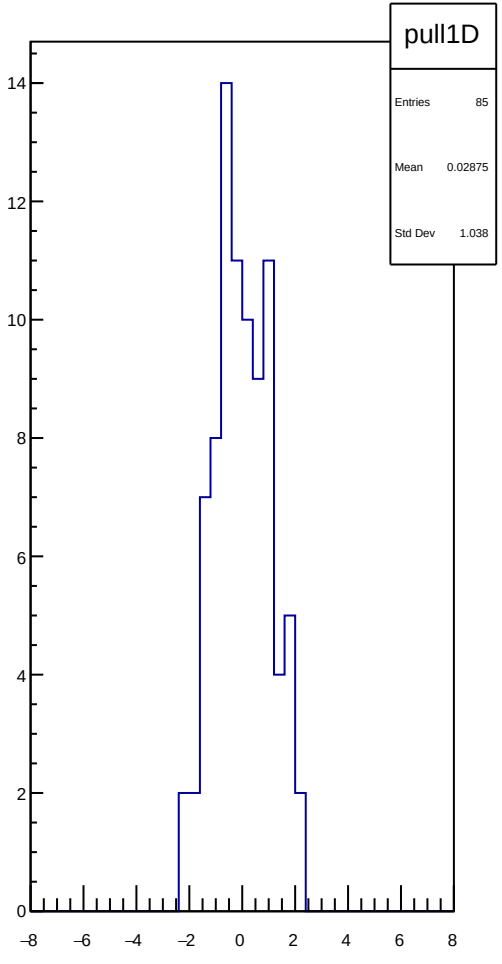

pull1D
Entries 85
Mean 0.02875
Std Dev 1.038

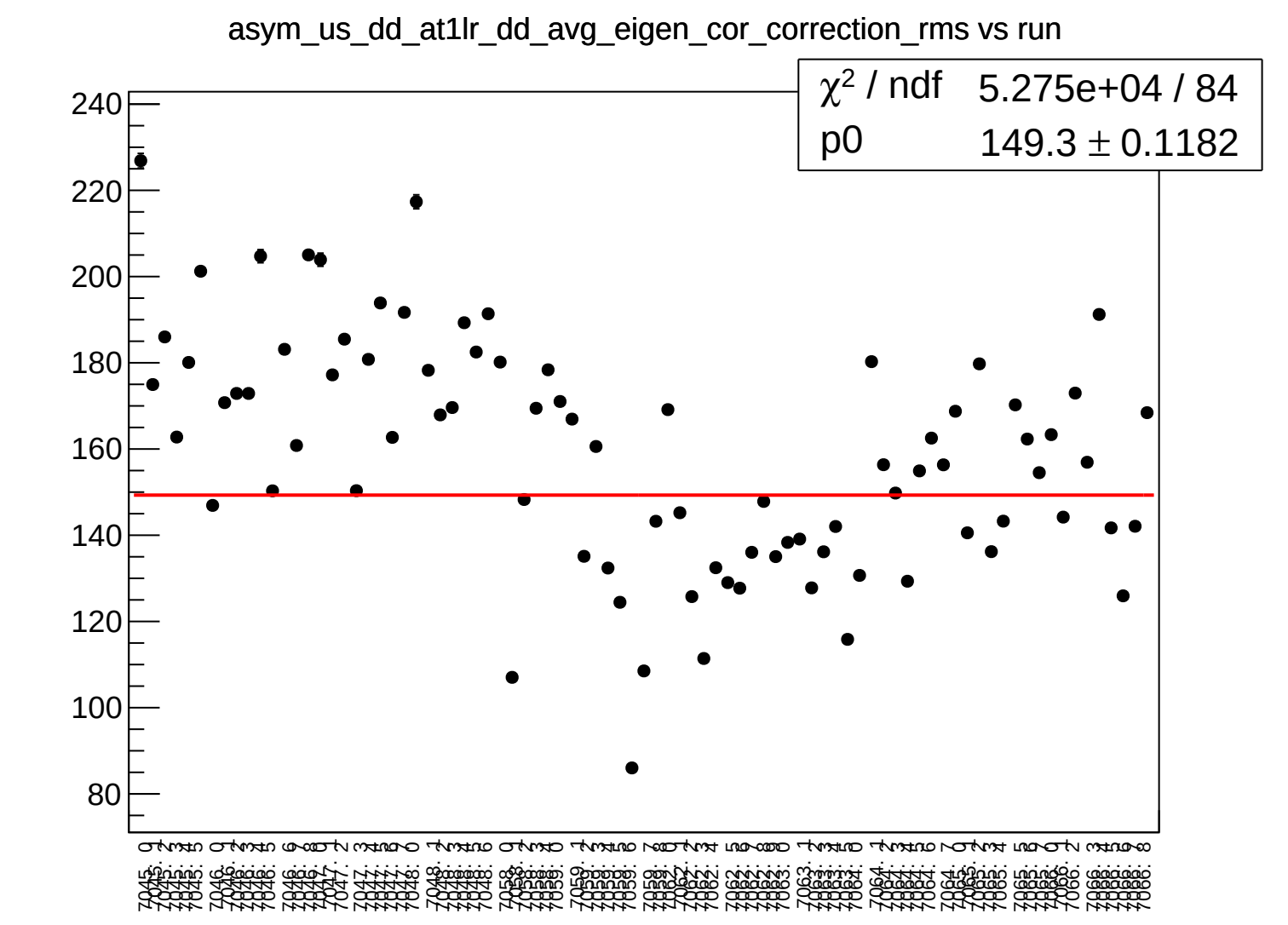

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.275e+04 / 84
p0 149.3 ± 0.1182
240
220
200
180
160
140
120
100
80

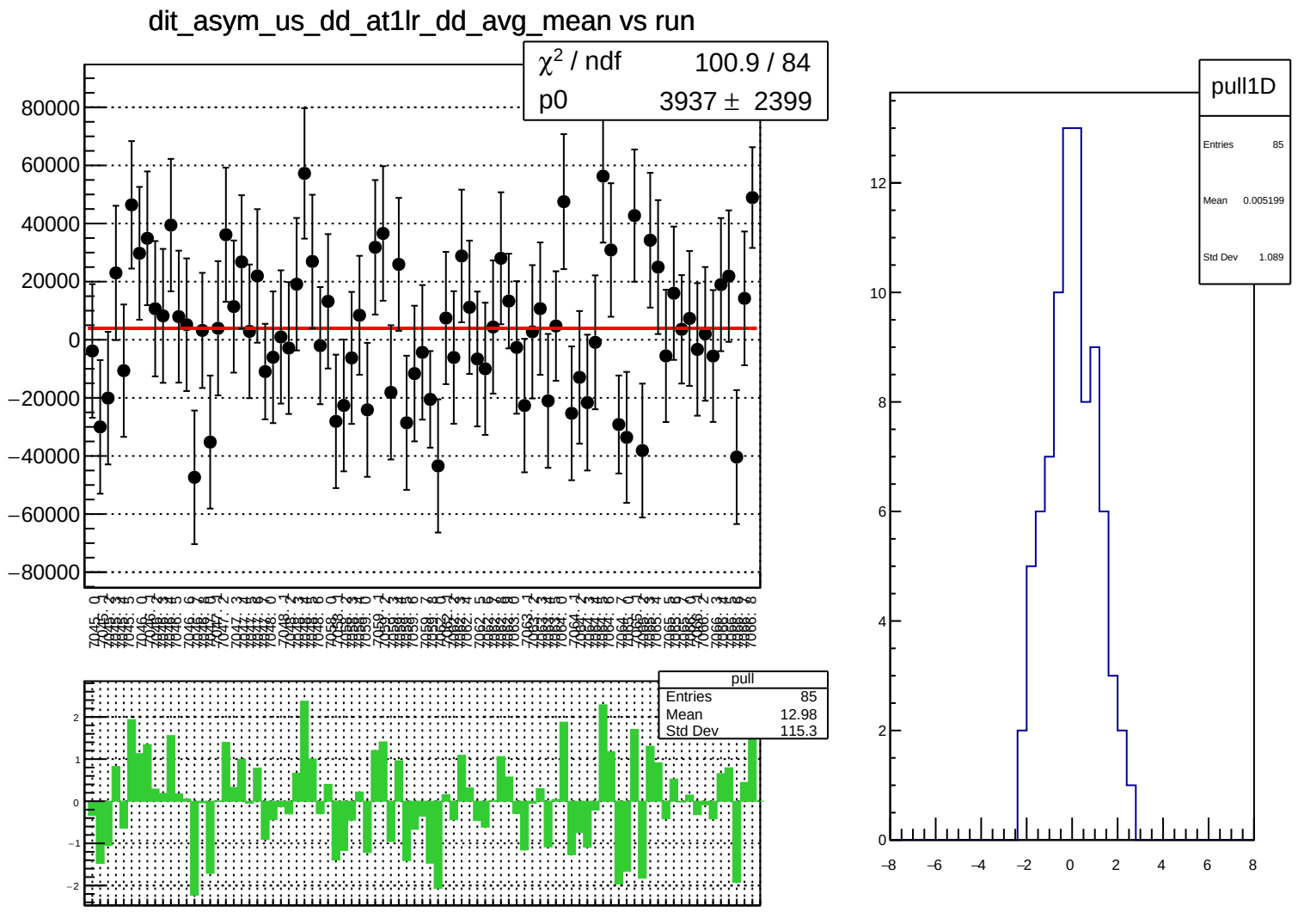

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.8 / 84
p0 3889 ± 2398
pull
Entries 85
Mean 10.36
Std Dev 113.8
pull1D
Entries 85
Mean 0.005449
Std Dev 1.089

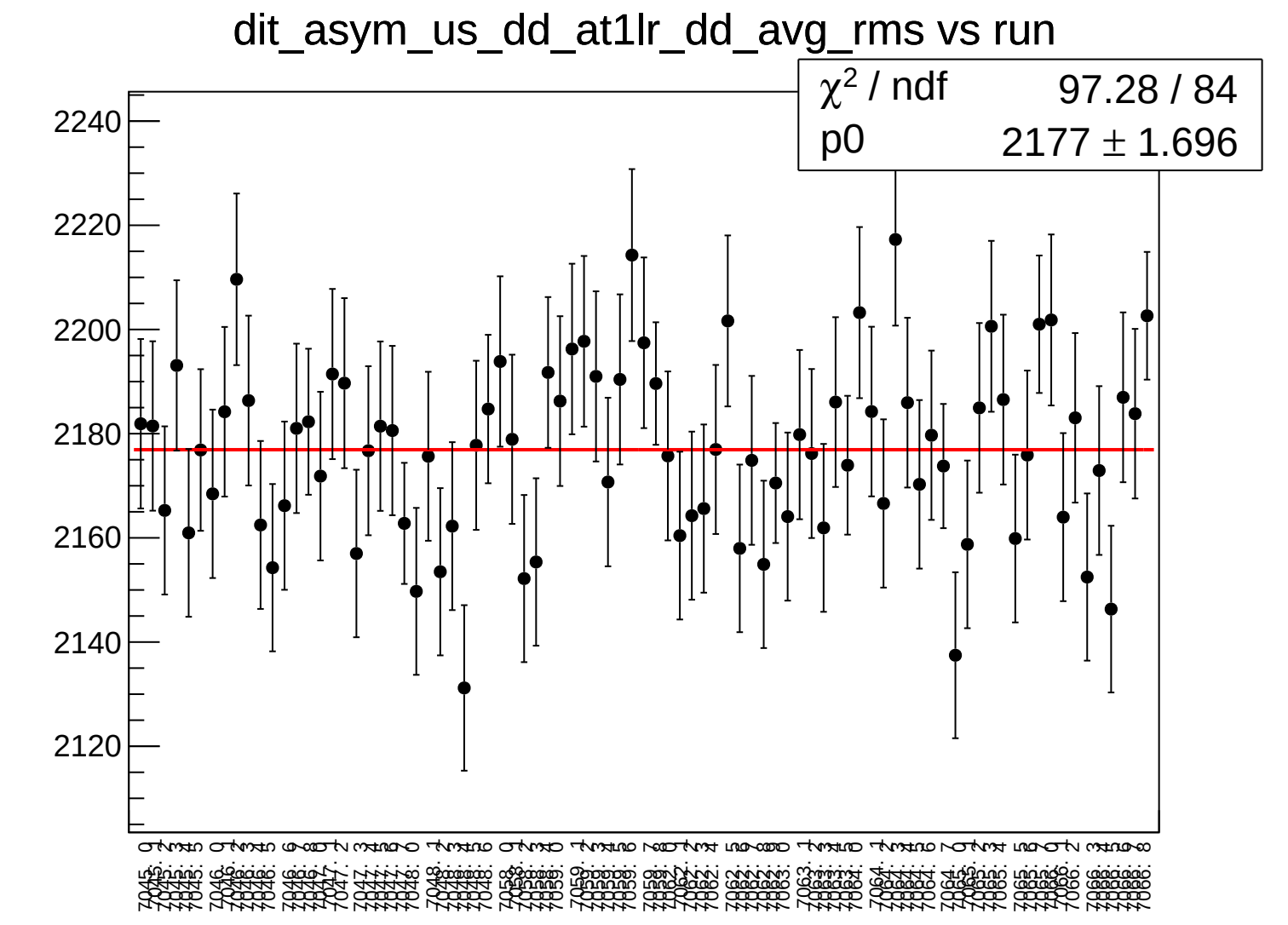

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 97.11 / 84
p0 2176 ± 1.696
2240
2220
2200
2180
2160
2140
2120

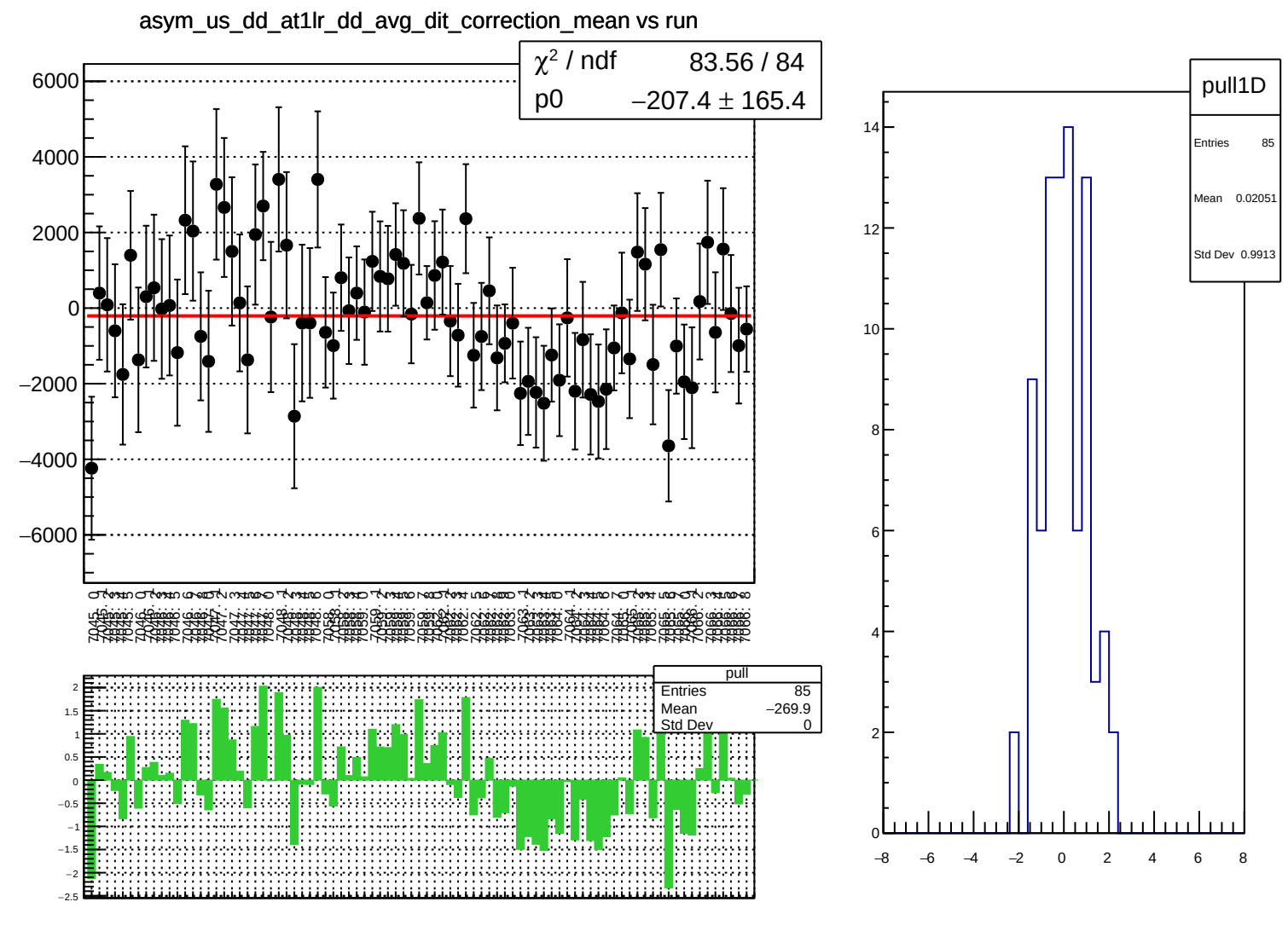

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.61 / 84
p0 −263.2 ± 167.2
pull
Entries 85
Mean −195
Std Dev 0

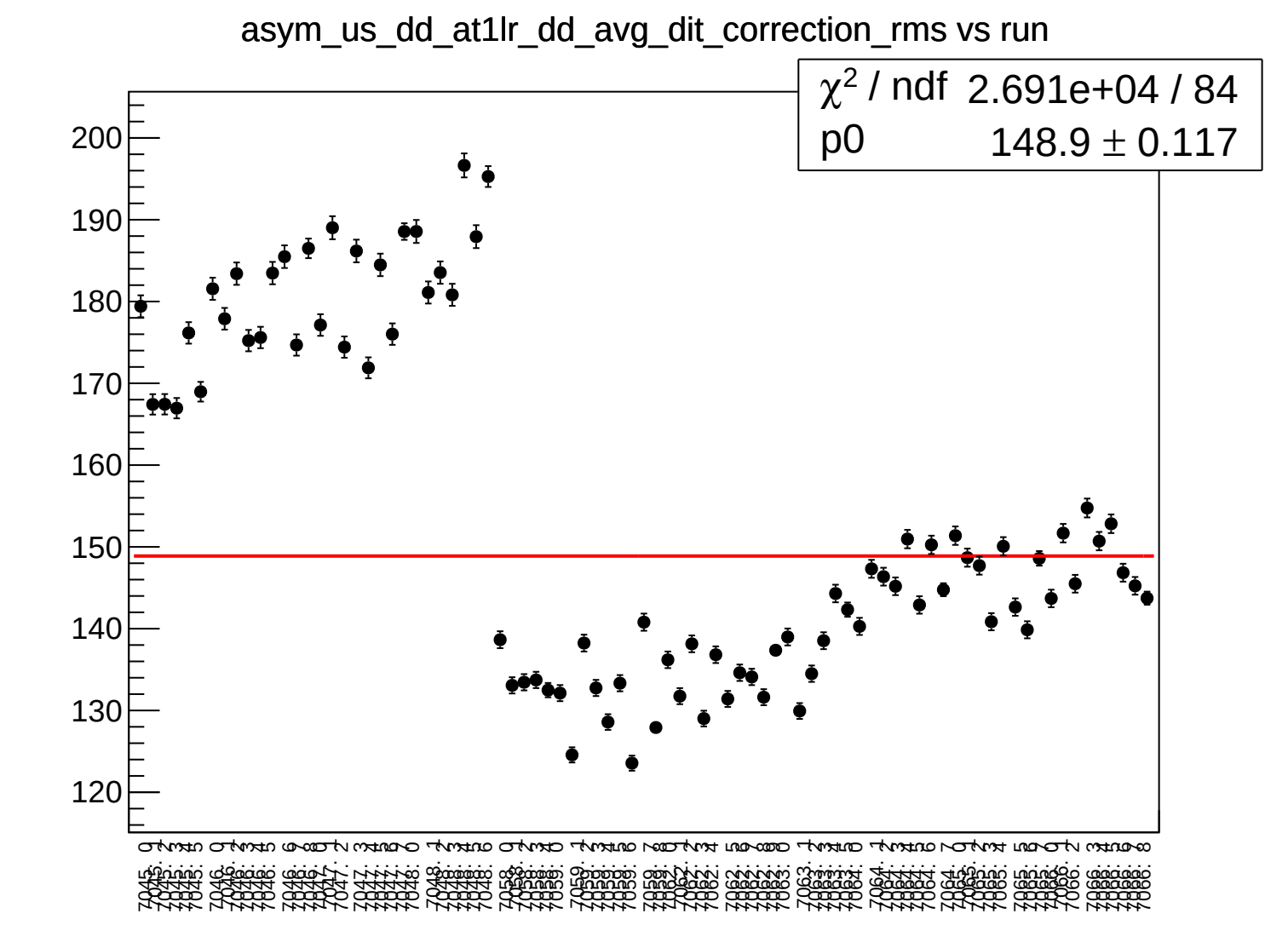

pull1D
Entries 85
Mean 0.02875
Std Dev 1.038

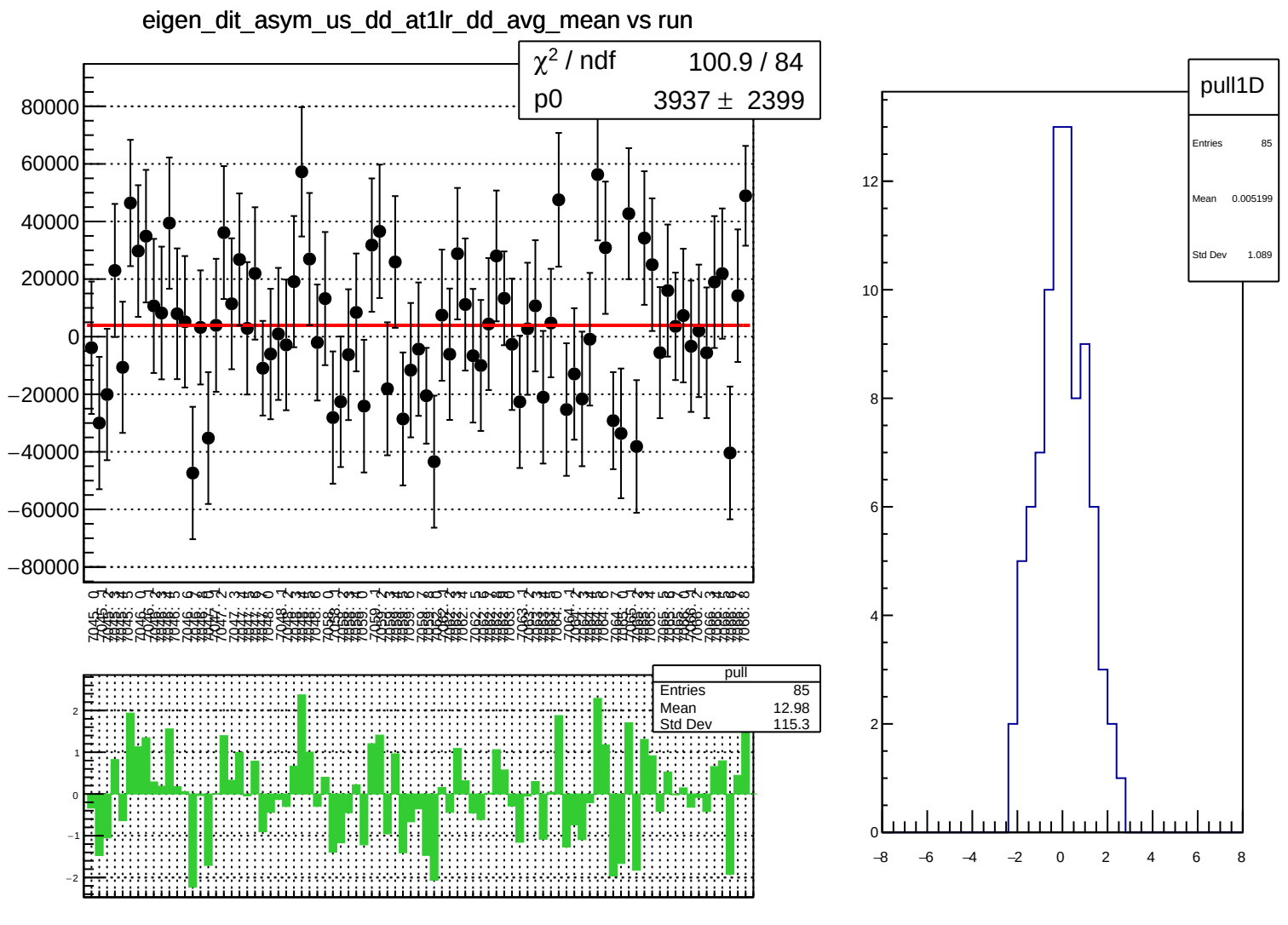

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.275e+04 / 84
p0 149.3 ± 0.1182
240
220
200
180
160
140
120
100
80

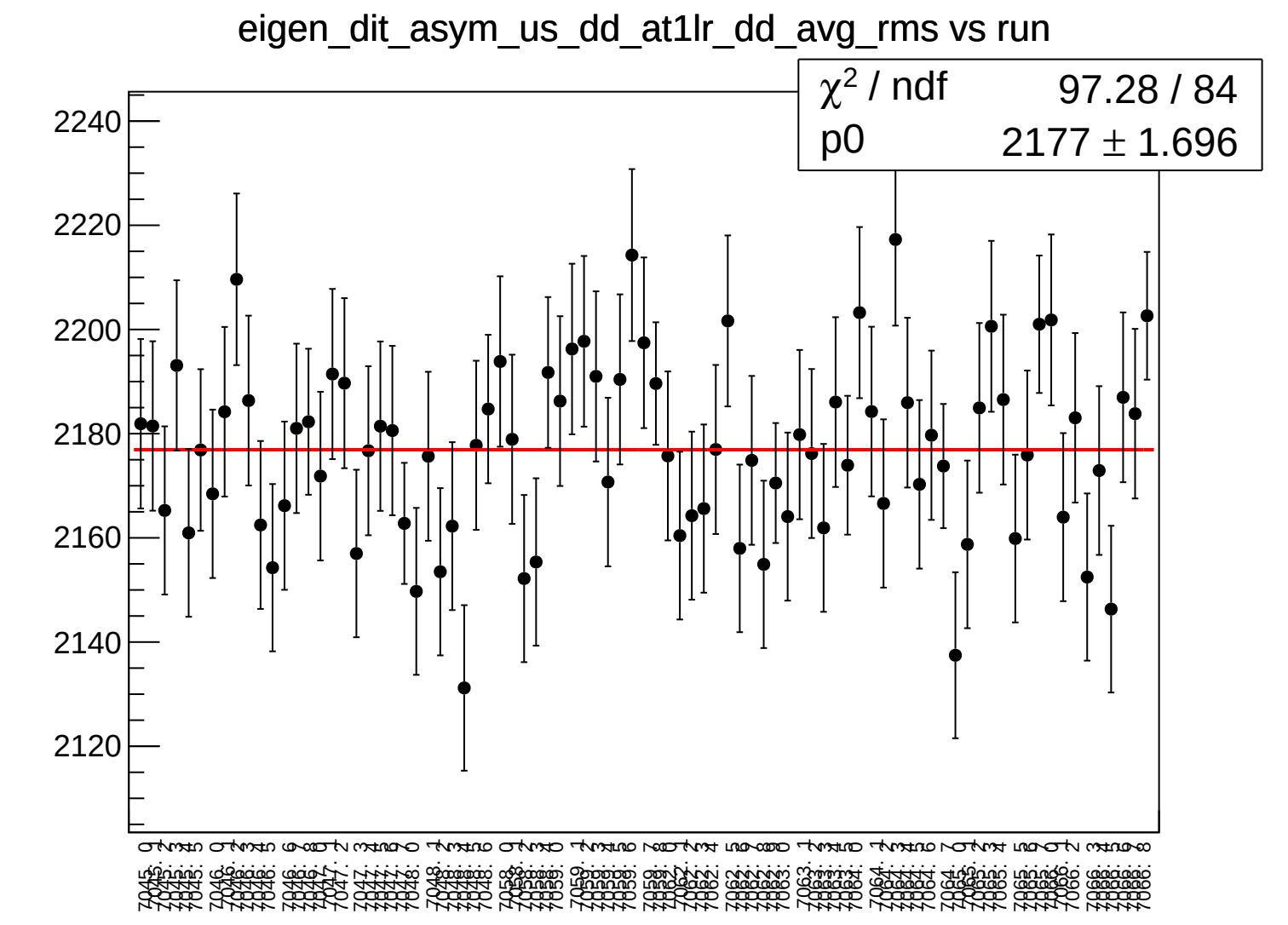

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.9 / 84
p0 3937 ± 2399
pull
Entries 85
Mean 12.98
Std Dev 115.3
pull1D
Entries 85
Mean 0.005199
Std Dev 1.089

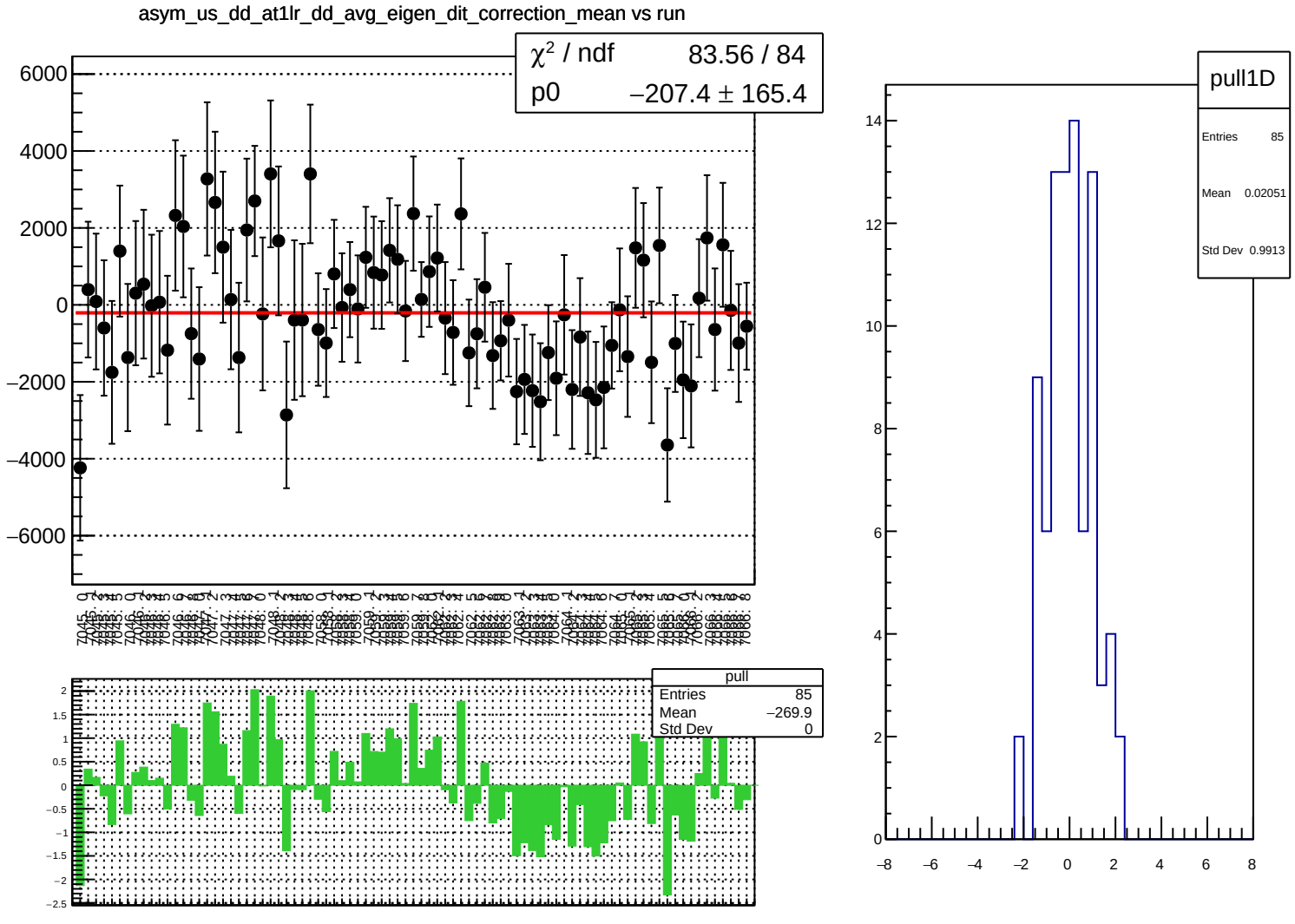

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.28 / 84
p0 2177 ± 1.696
2240
2220
2200
2180
2160
2140
2120

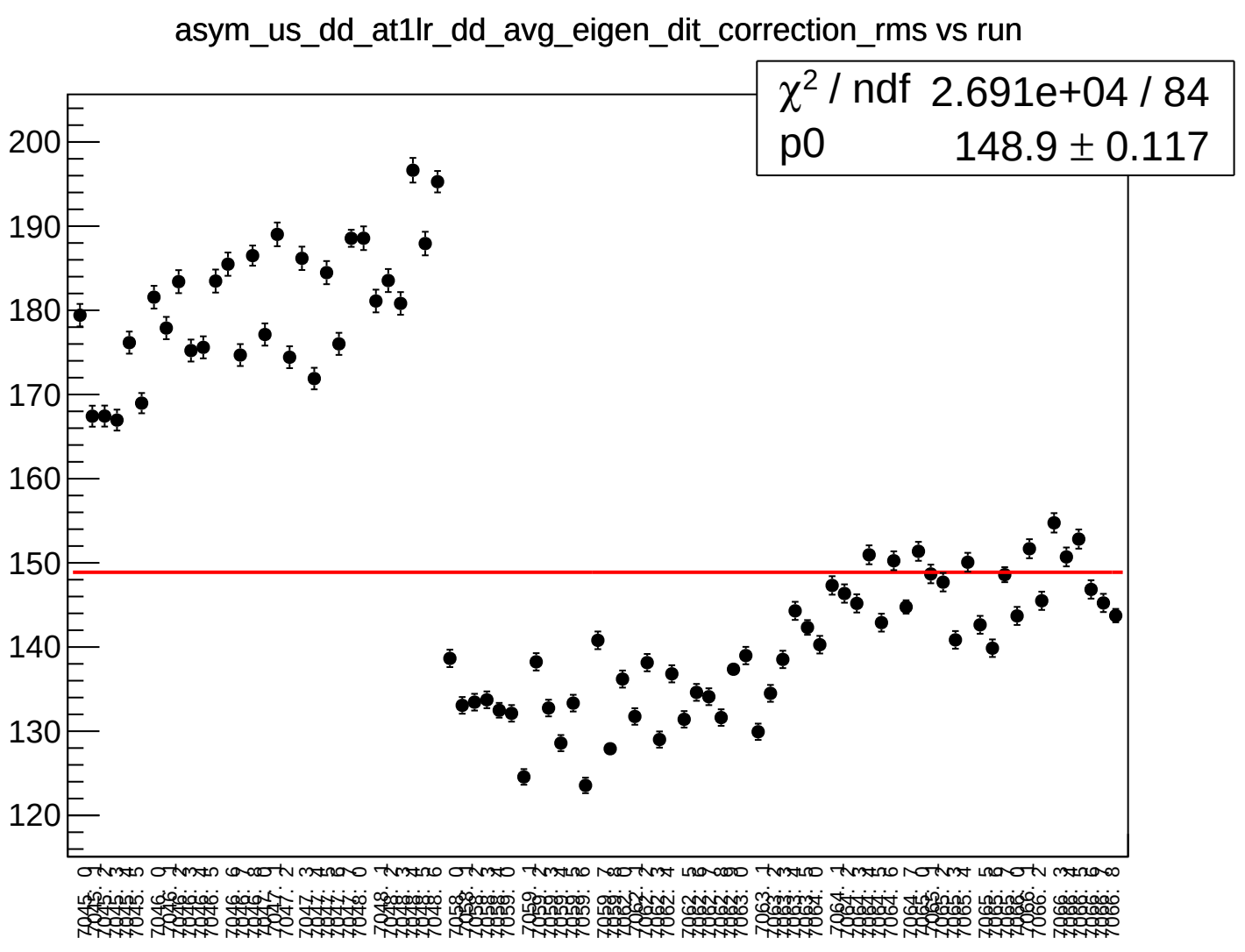

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 83.56 / 84
p0 −207.4 ± 165.4
pull
Entries 85
Mean −269.9
Std Dev 0
pull1D
Entries 85
Mean 0.02051
Std Dev 0.9913

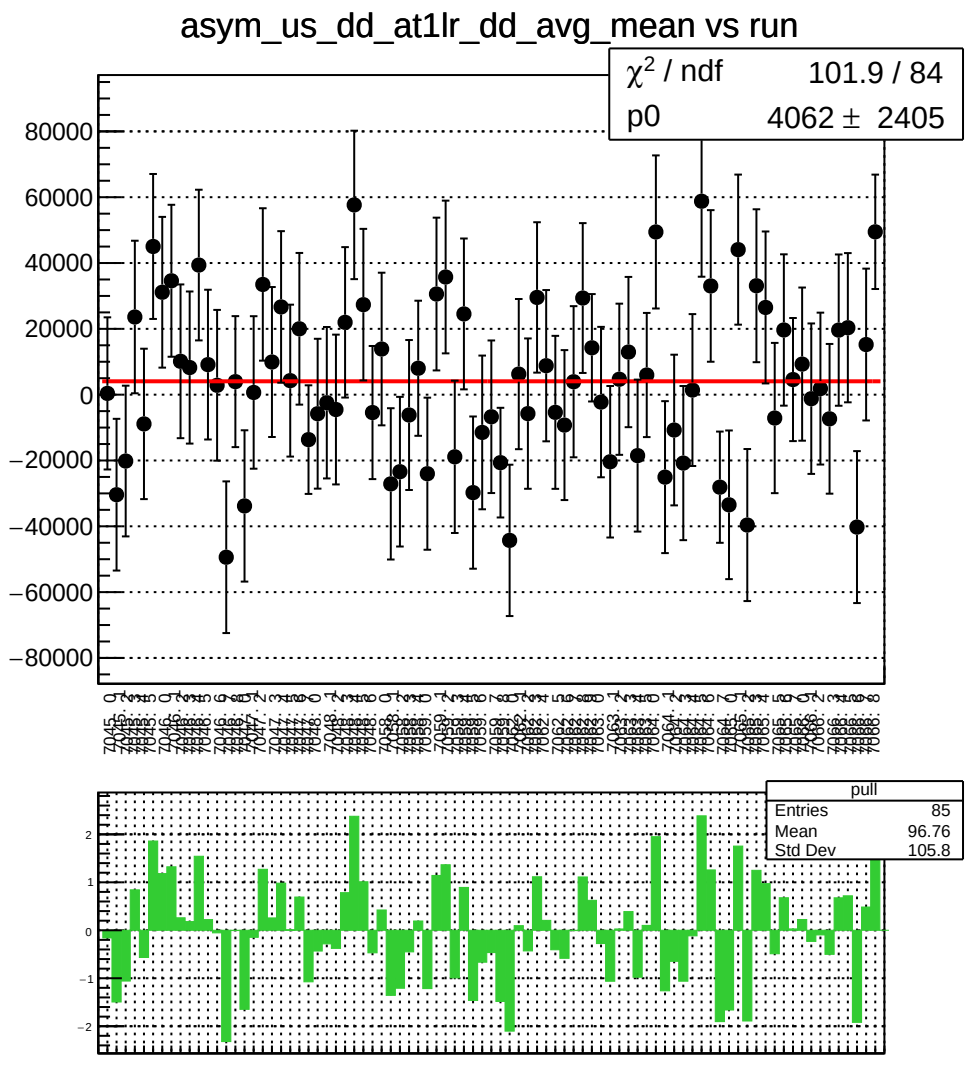

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.691e+04 / 84
p0 148.9 ± 0.117
200
190
180
170
160
150
140
130
120

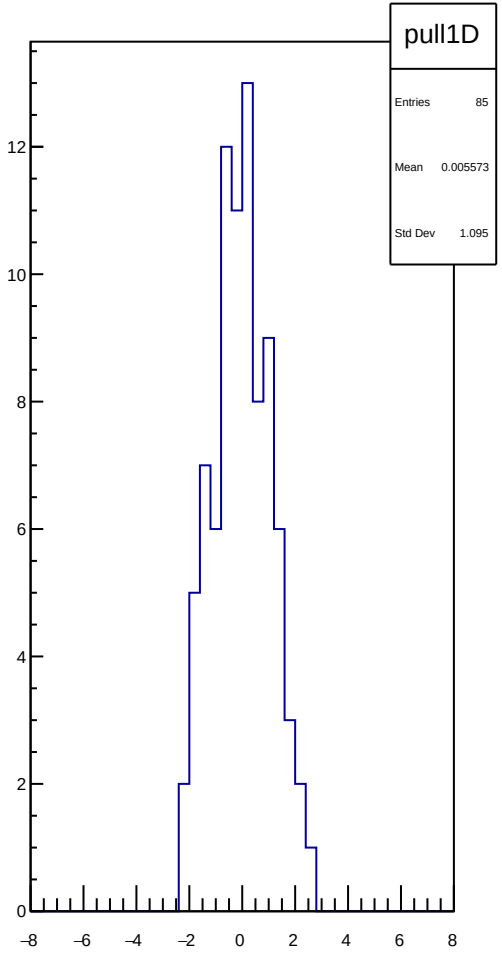

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.9 / 84
p0 3937 ± 2399
pull
Entries 85
Mean 12.98
Std Dev 115.3
pull1D
Entries 85
Mean 0.005199
Std Dev 1.089

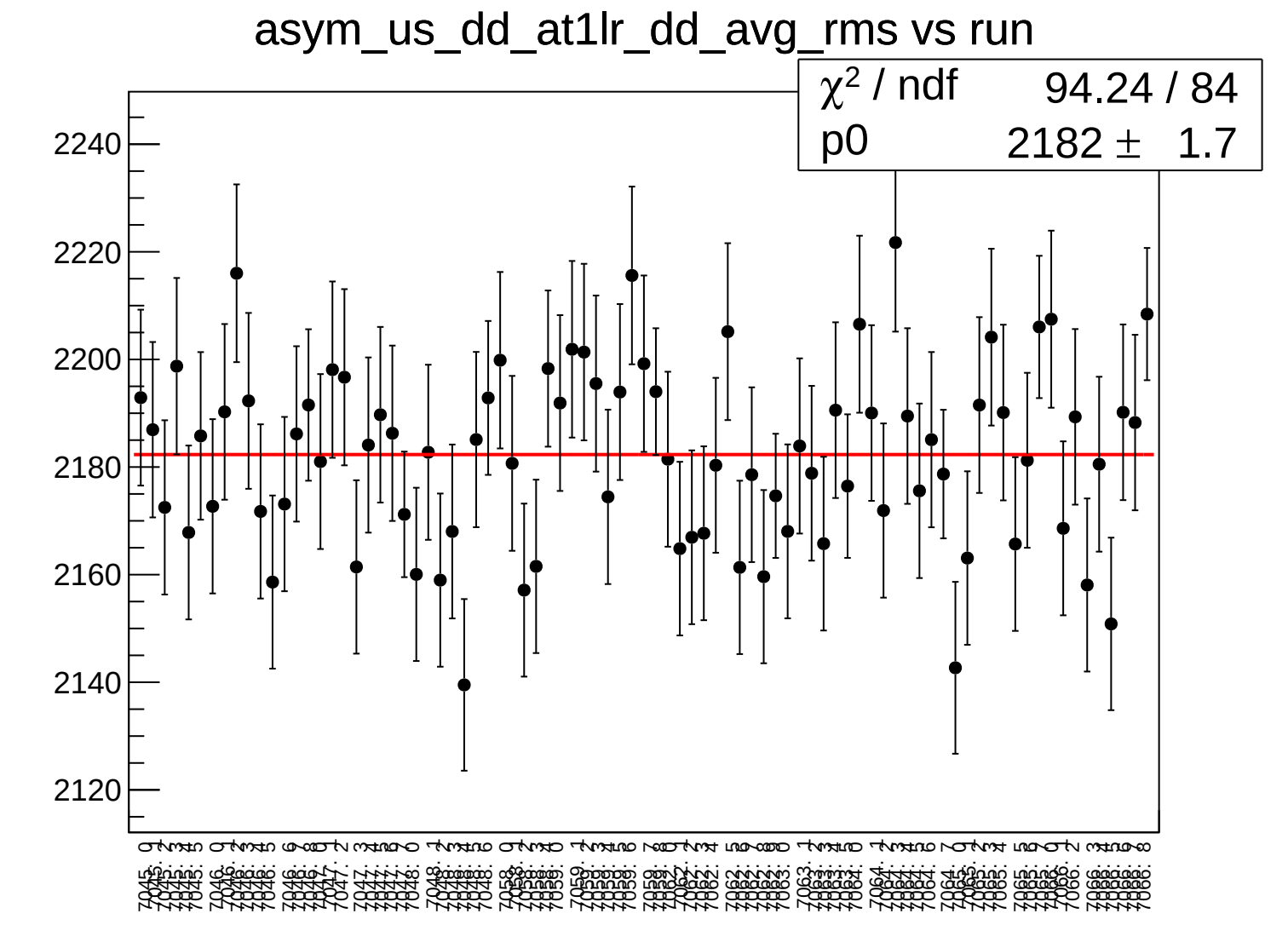

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.28 / 84
p0 2177 ± 1.696
2240
2220
2200
2180
2160
2140
2120

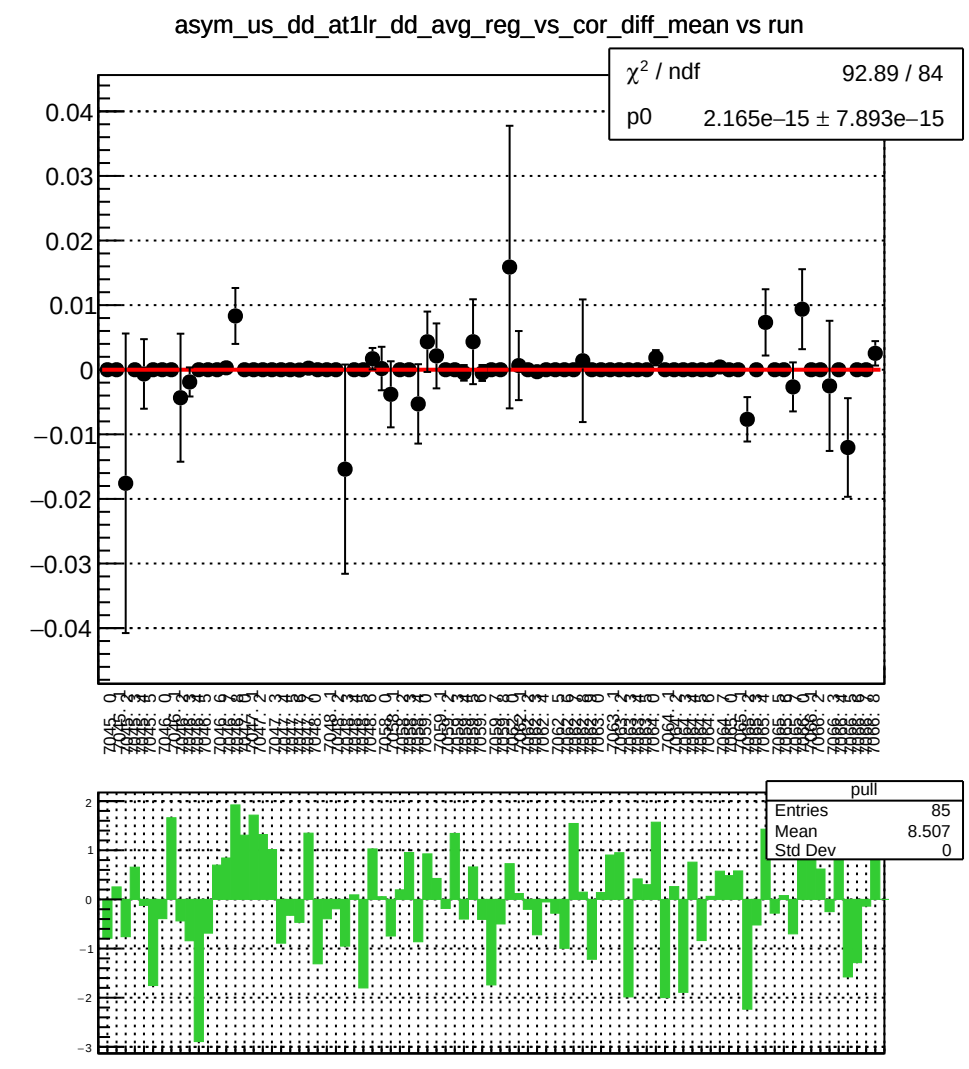

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.56 / 84
p0 −207.4 ± 165.4
pull
Entries 85
Mean −269.9
Std Dev 0
pull1D
Entries 85
Mean 0.02051
Std Dev 0.9913

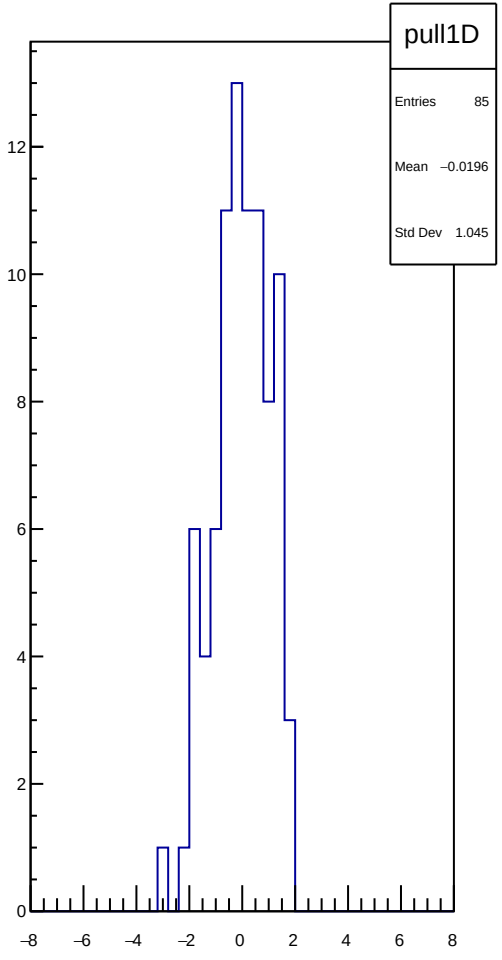

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.691e+04 / 84
p0 148.9 ± 0.117
200
190
180
170
160
150
140
130
120

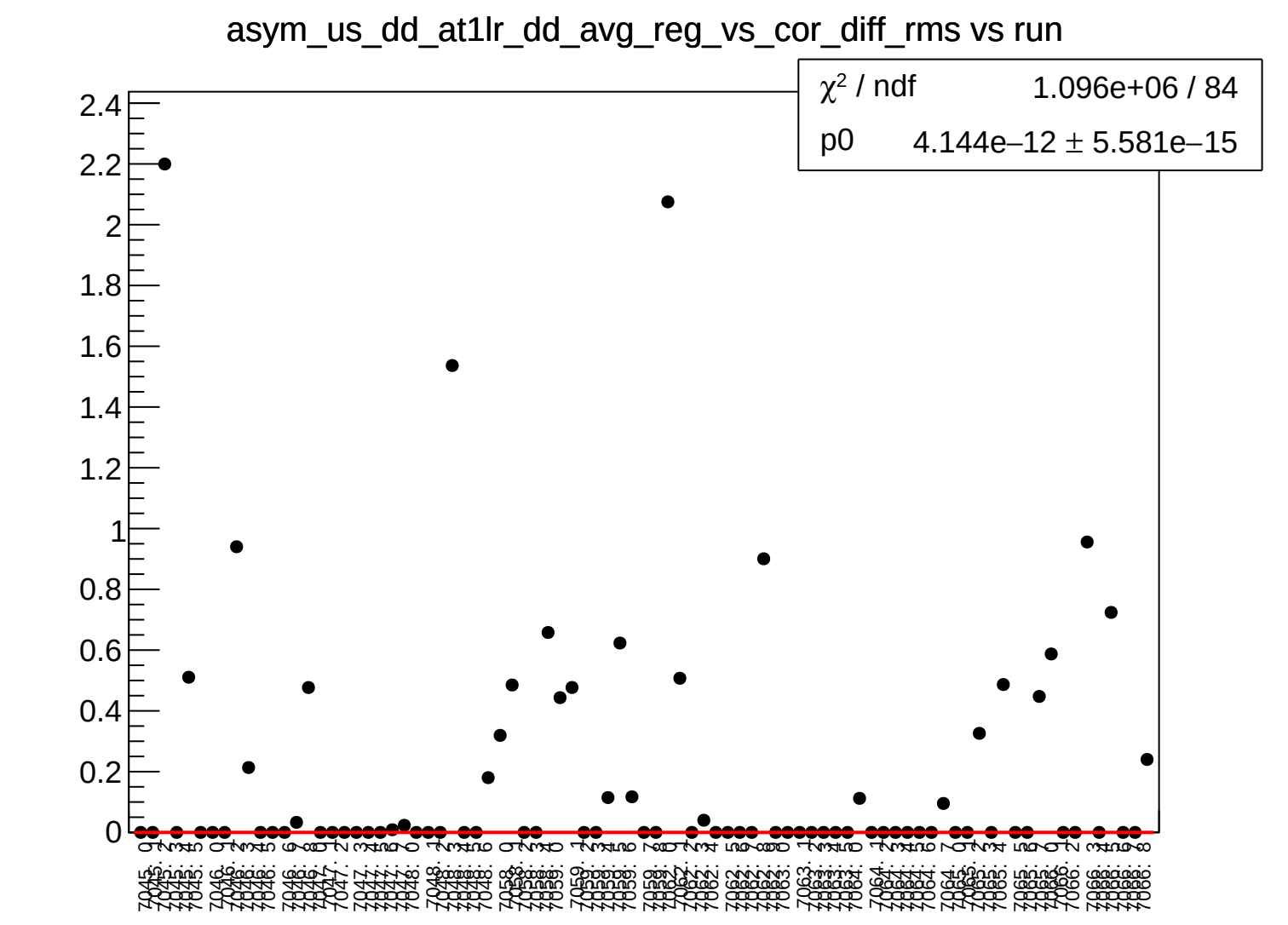

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 101.9 / 84
p0 4062 ± 2405
pull
Entries 85
Mean 96.76
Std Dev 105.8

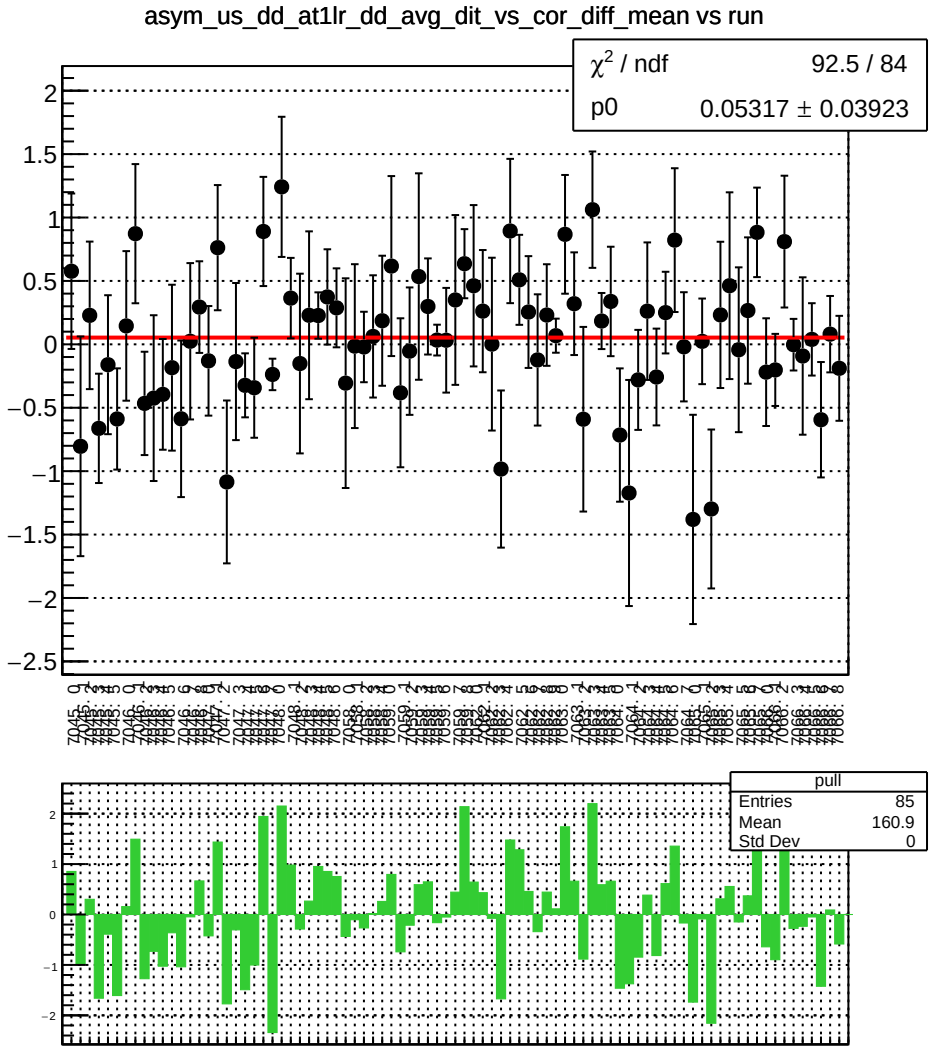

pull1D
Entries 85
Mean 0.005573
Std Dev 1.095

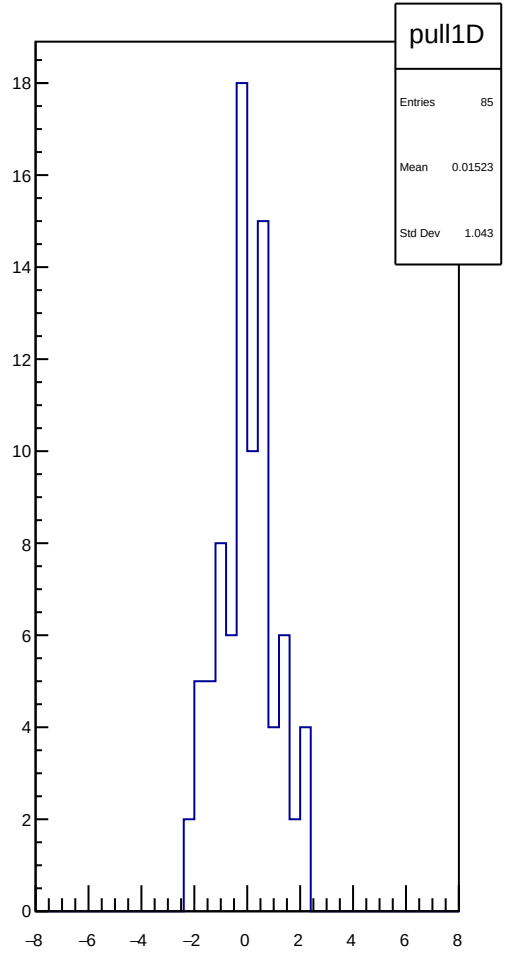

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 94.24 / 84
p0 2182 ± 1.7
2240
2220
2200
2180
2160
2140
2120

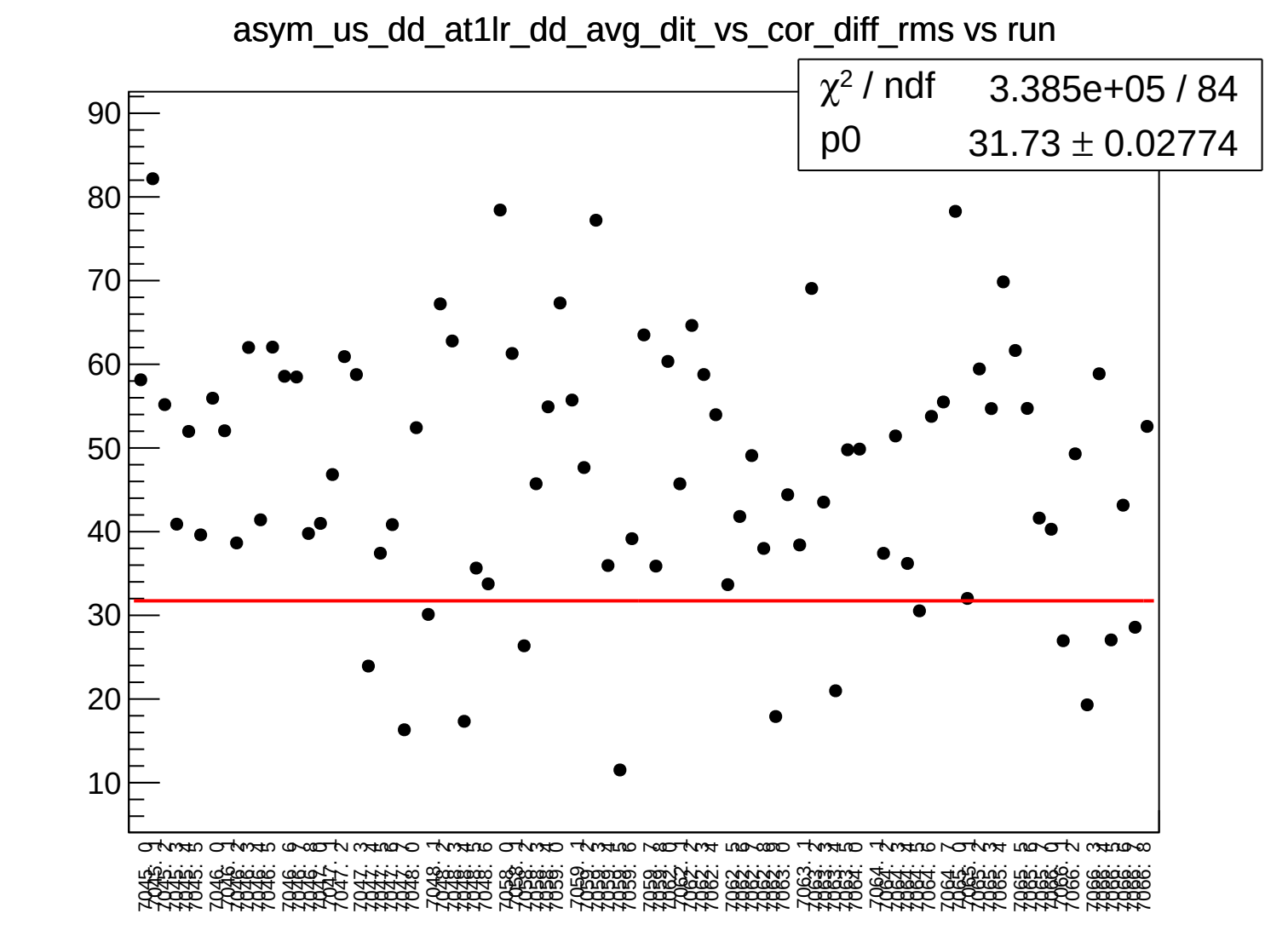

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.89 / 84
p0 2.165e−15 ± 7.893e−15
pull
Entries 85
Mean 8.507
Std Dev 0

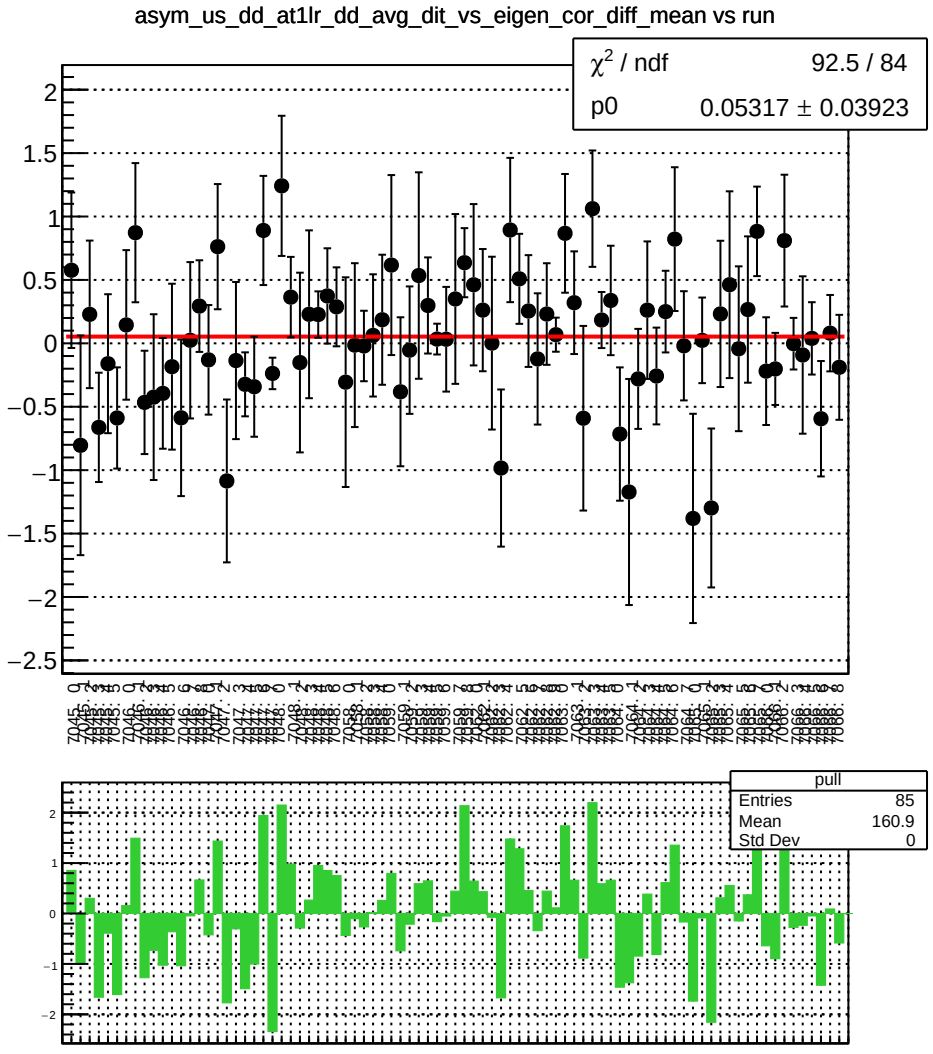

pull1D
Entries 85
Mean −0.0196
Std Dev 1.045

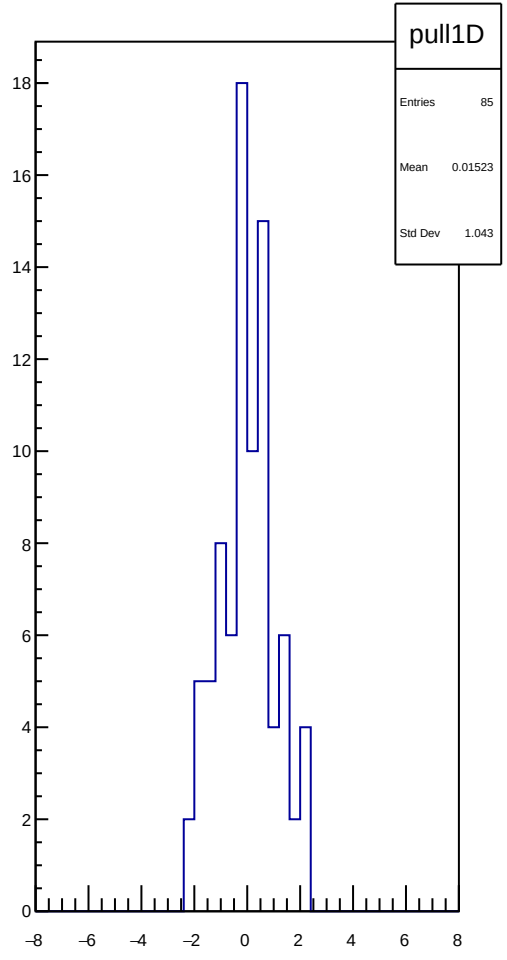

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 84
p0 4.144e−12 ± 5.581e−15
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

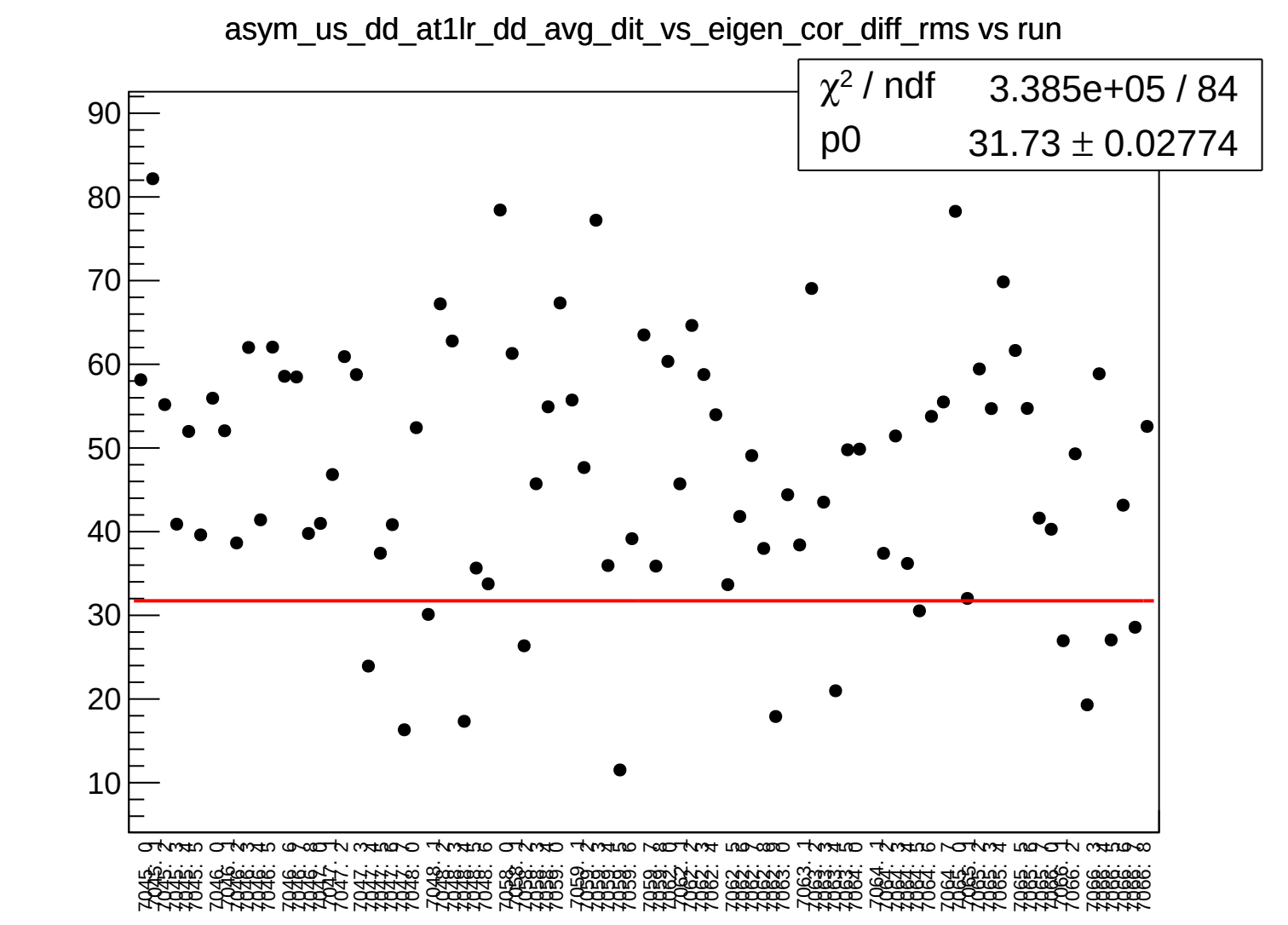

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.5 / 84
p0 0.05317 ± 0.03923
pull
Entries 85
Mean 160.9
Std Dev 0

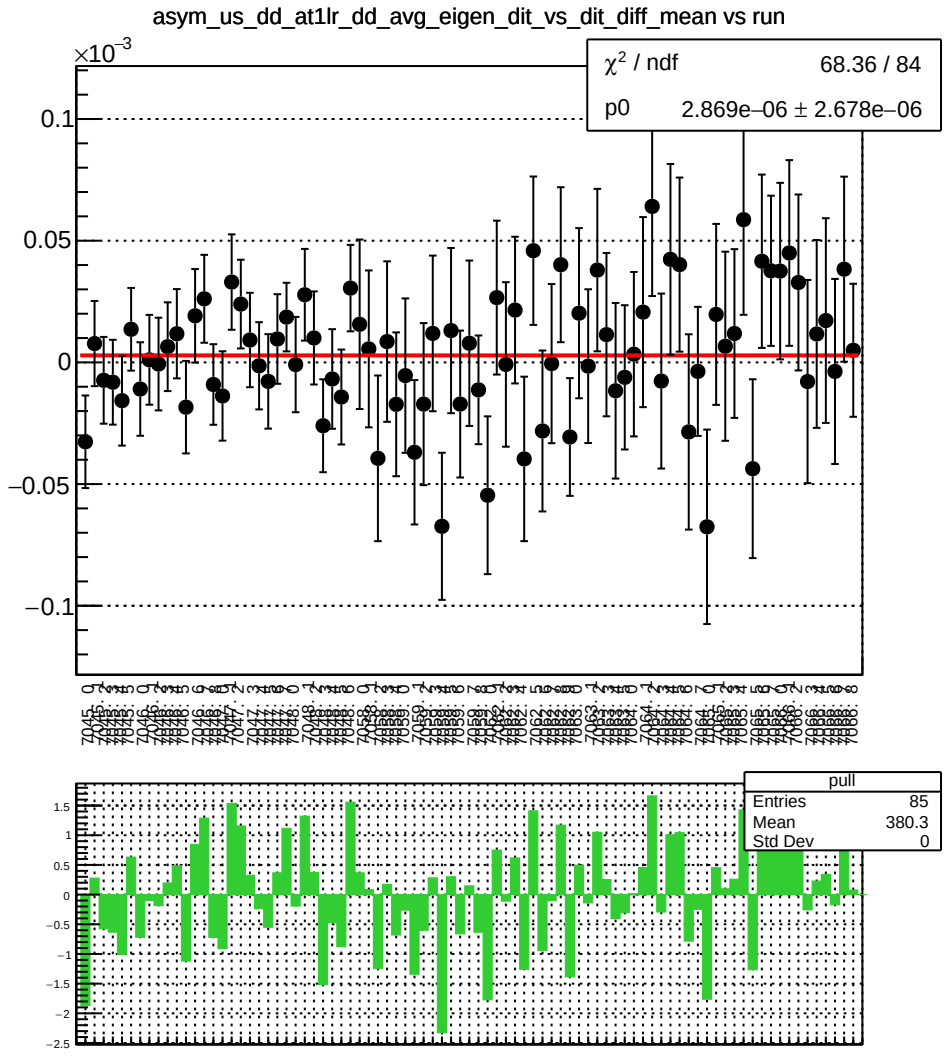

pull1D
Entries 85
Mean 0.01523
Std Dev 1.043

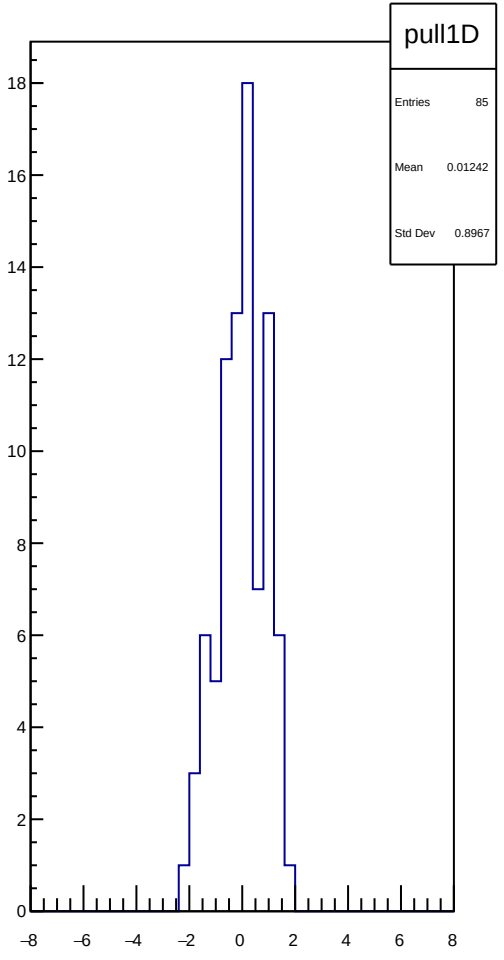

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.385e+05 / 84
p0 31.73 ± 0.02774
90
80
70
60
50
40
30
20
10

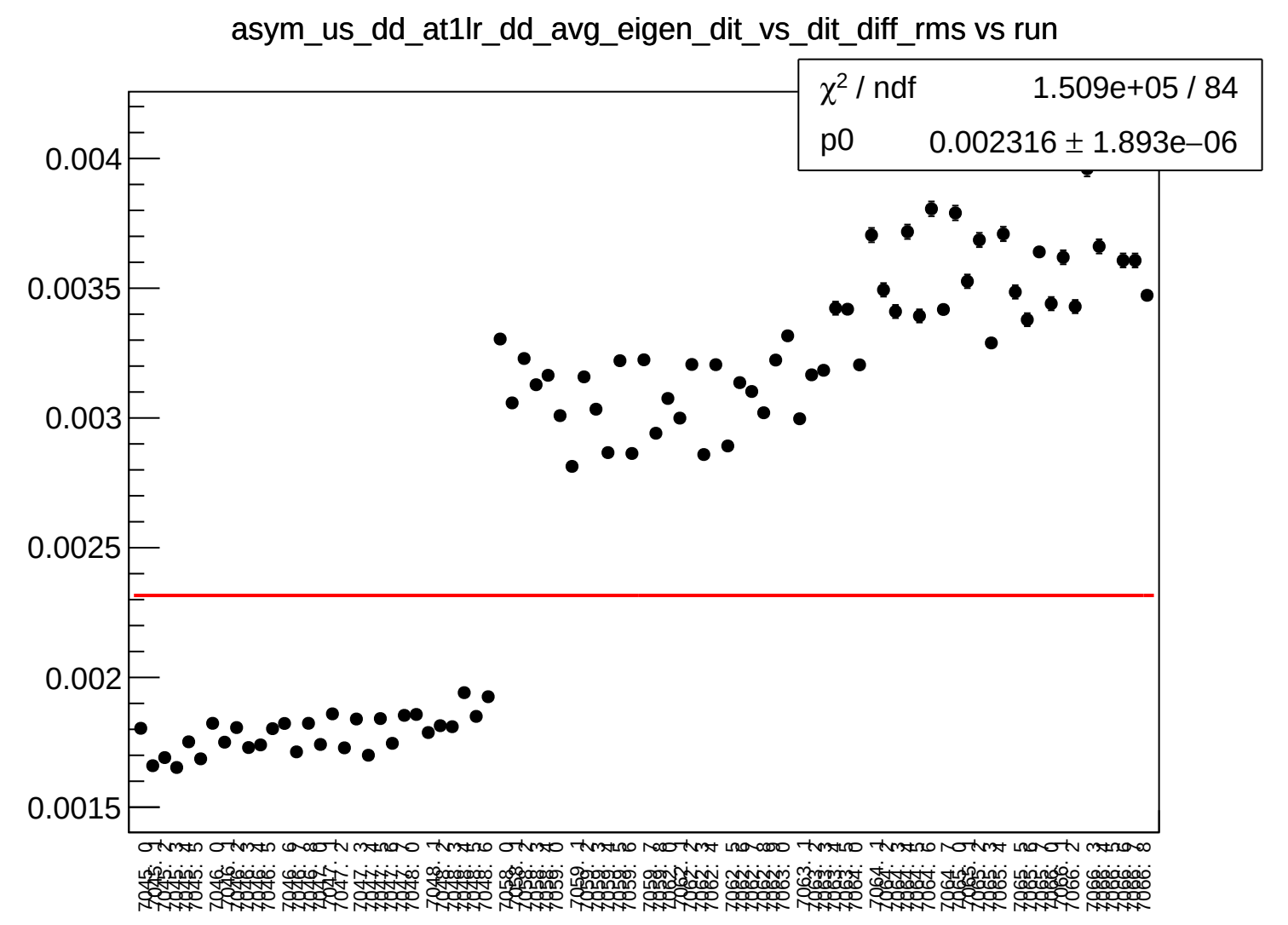

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.5 / 84
p0 0.05317 ± 0.03923
pull
Entries 85
Mean 160.9
Std Dev 0

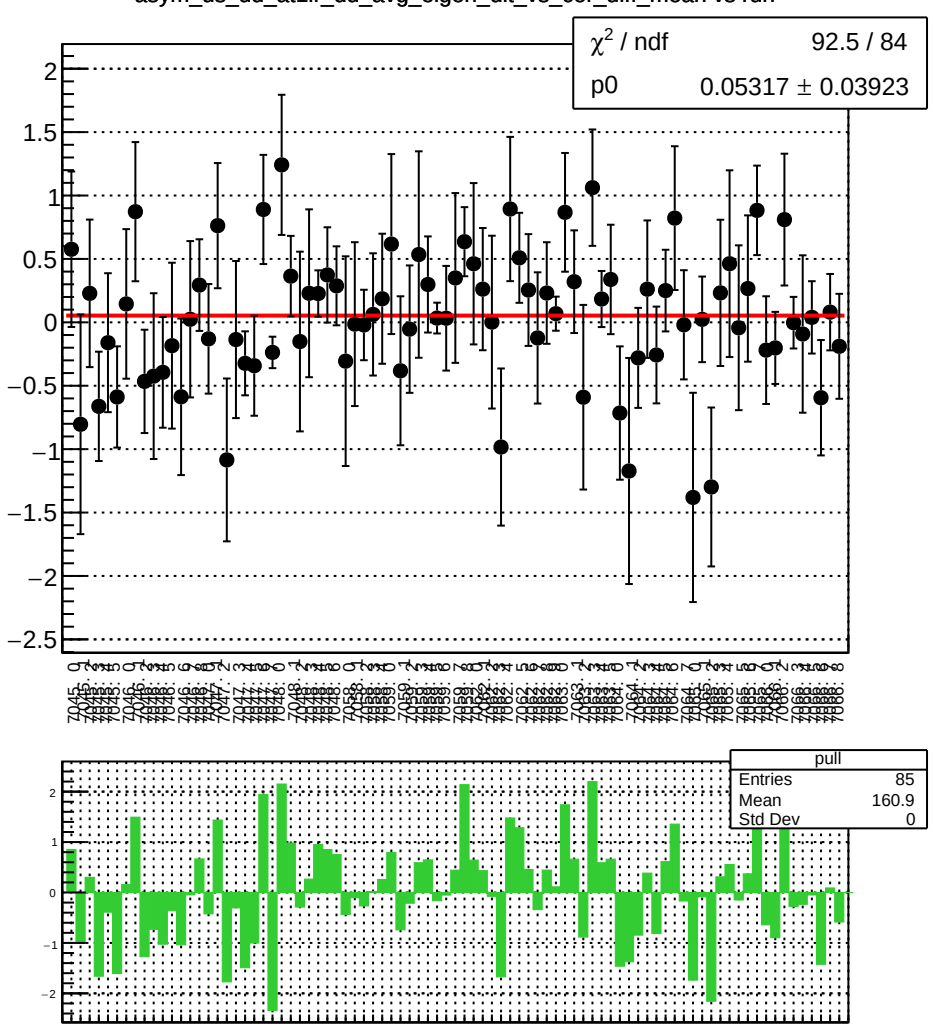

pull1D
Entries 85
Mean 0.01523
Std Dev 1.043

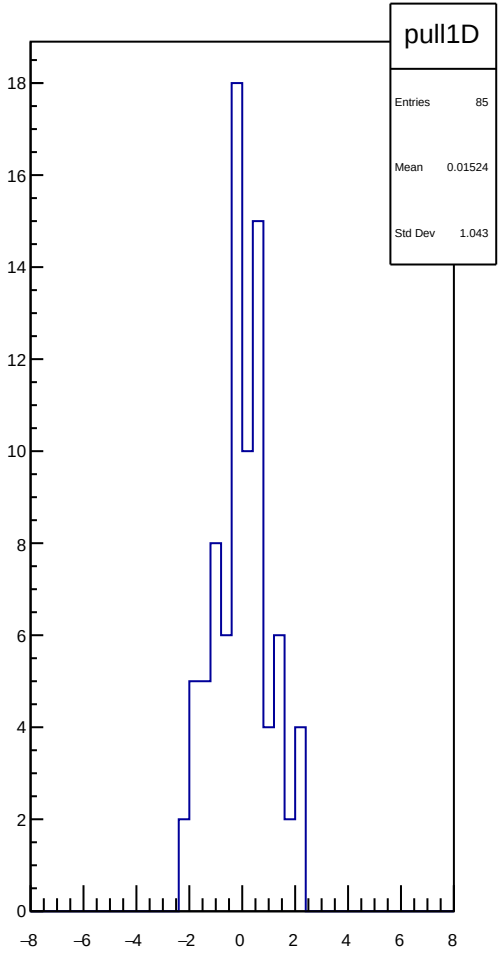

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.385e+05 / 84
p0 31.73 ± 0.02774
90
80
70
60
50
40
30
20
10

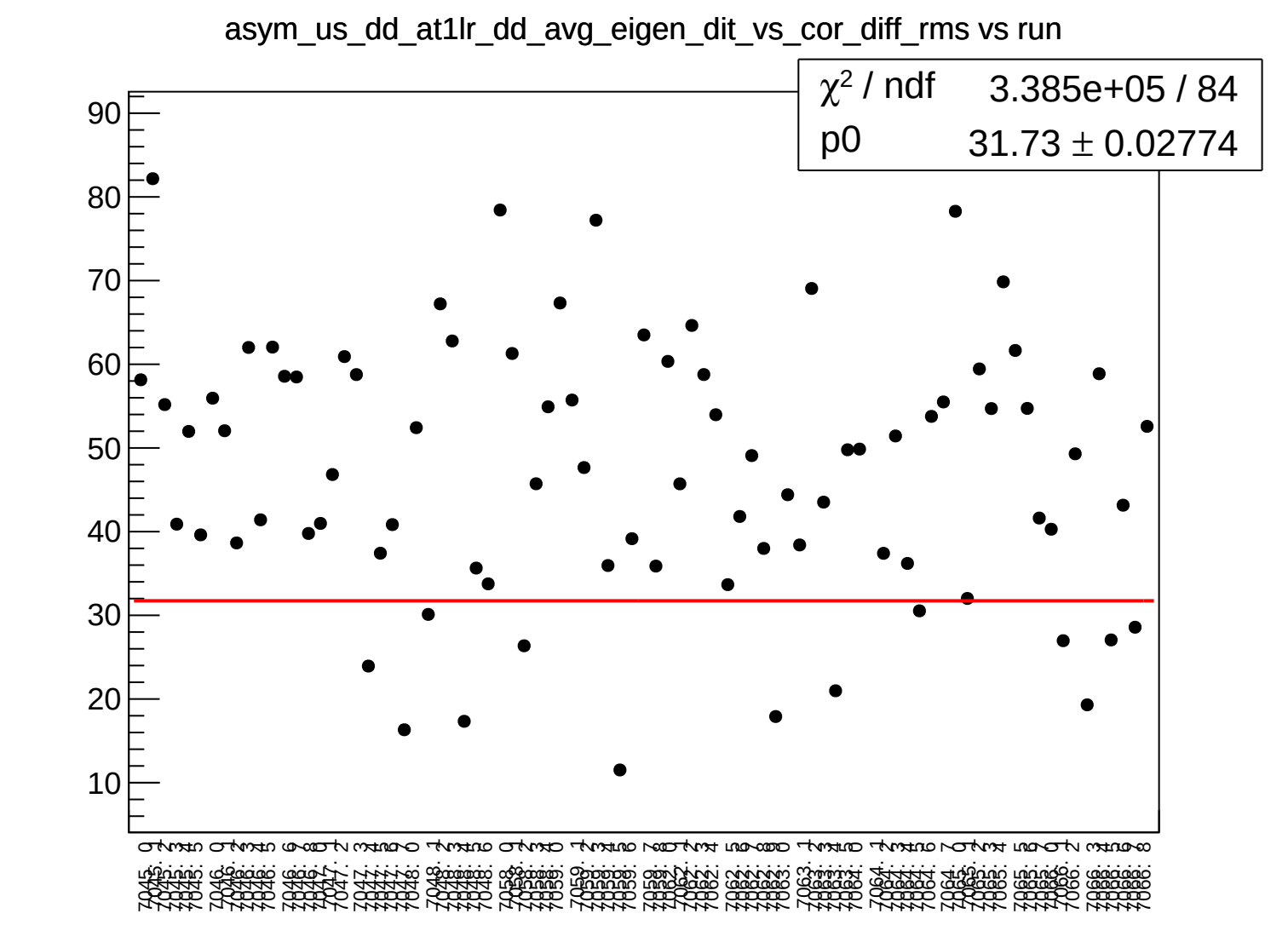

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.36 / 84
p0 2.869e−06 ± 2.678e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 380.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

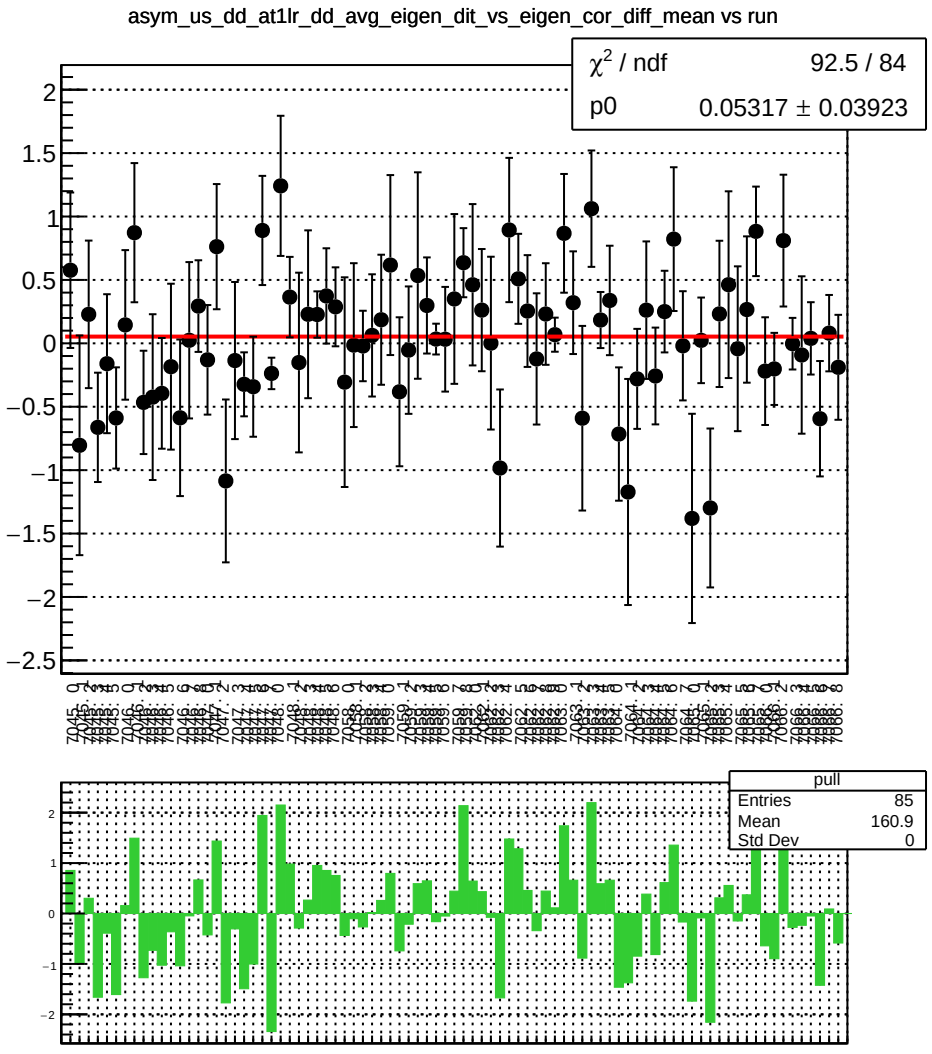

pull1D
Entries 85
Mean 0.01242
Std Dev 0.8967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

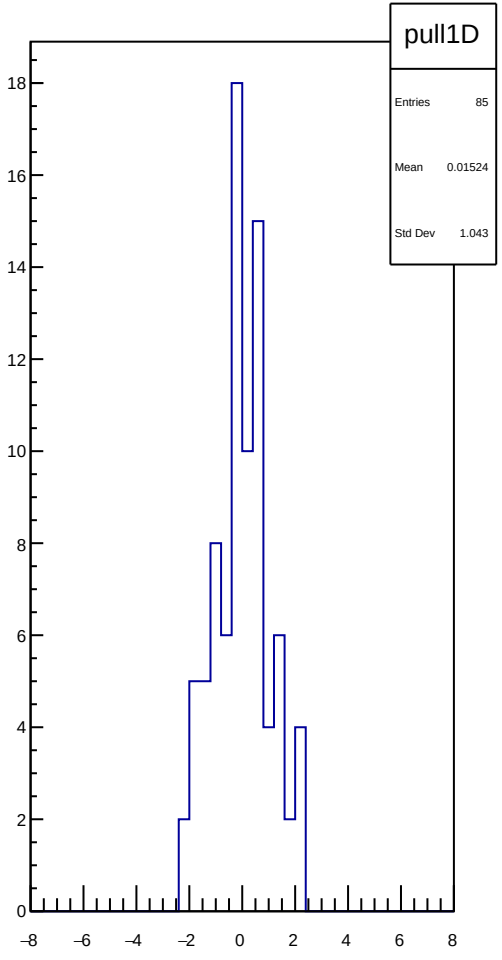

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.509e+05 / 84
p0 0.002316 ± 1.893e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

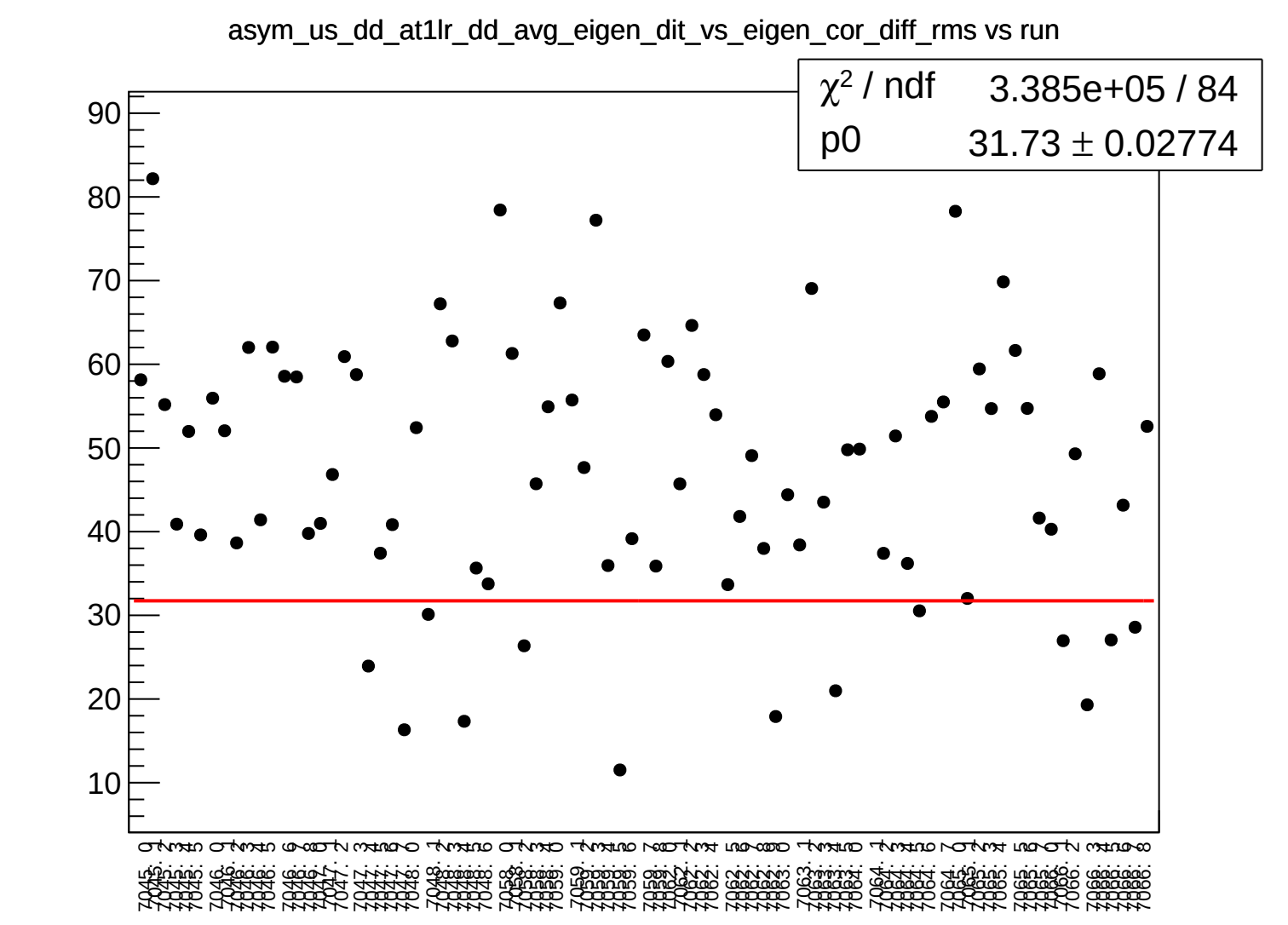

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.5 / 84
p0 0.05317 ± 0.03923
pull
Entries 85
Mean 160.9
Std Dev 0

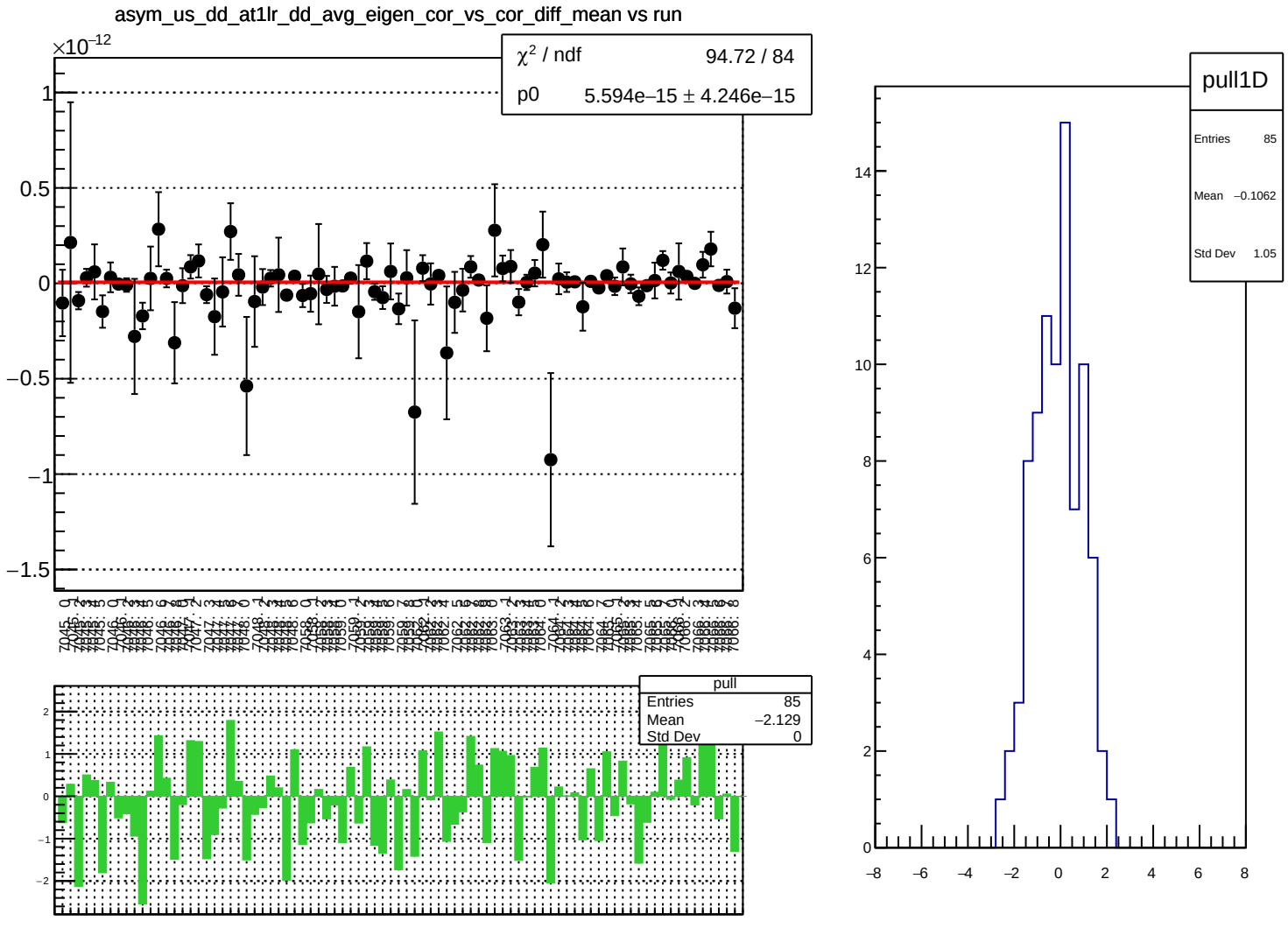

pull1D
Entries 85
Mean 0.01524
Std Dev 1.043

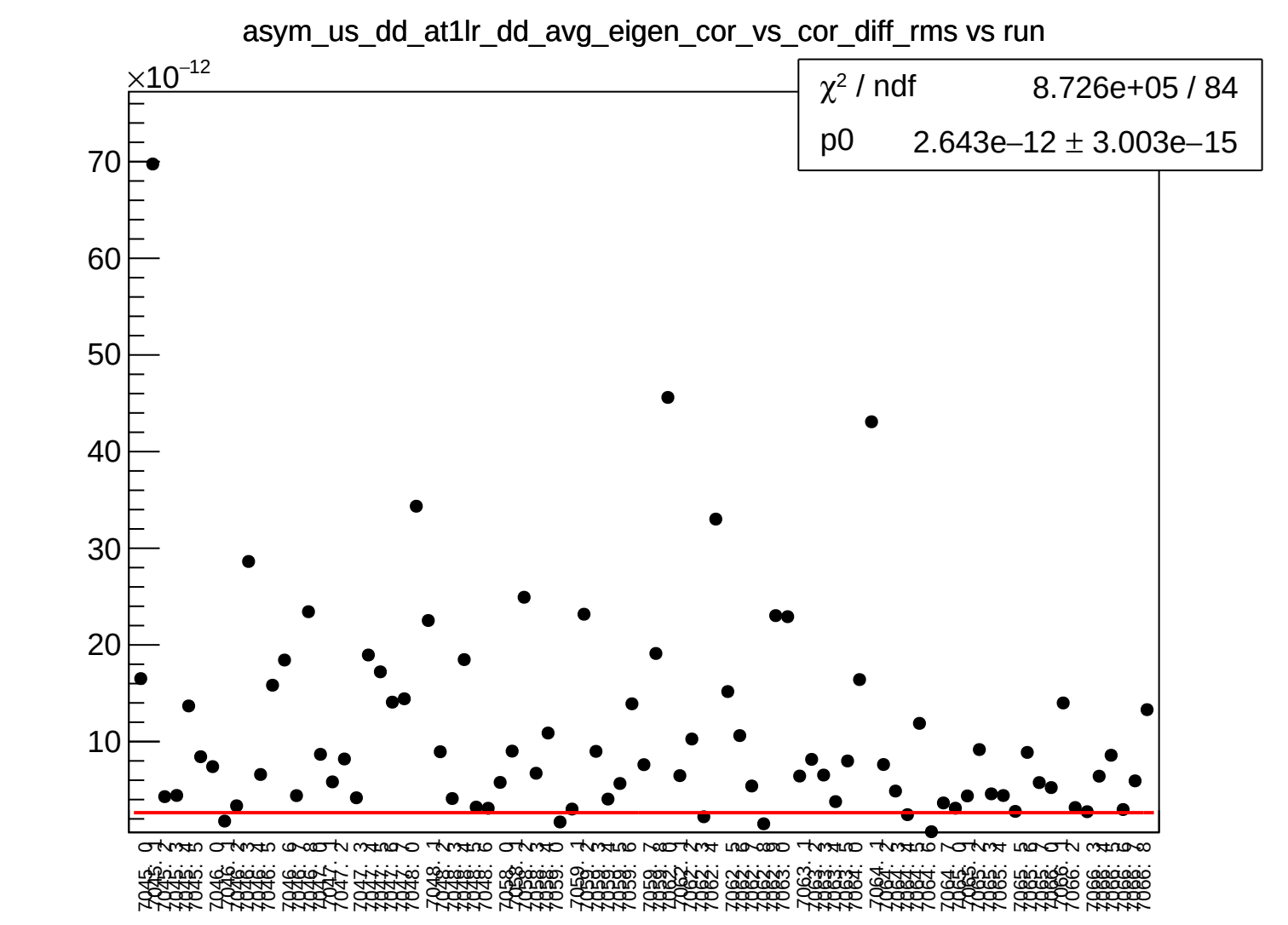

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.385e+05 / 84
p0 31.73 ± 0.02774
90
80
70
60
50
40
30
20
10

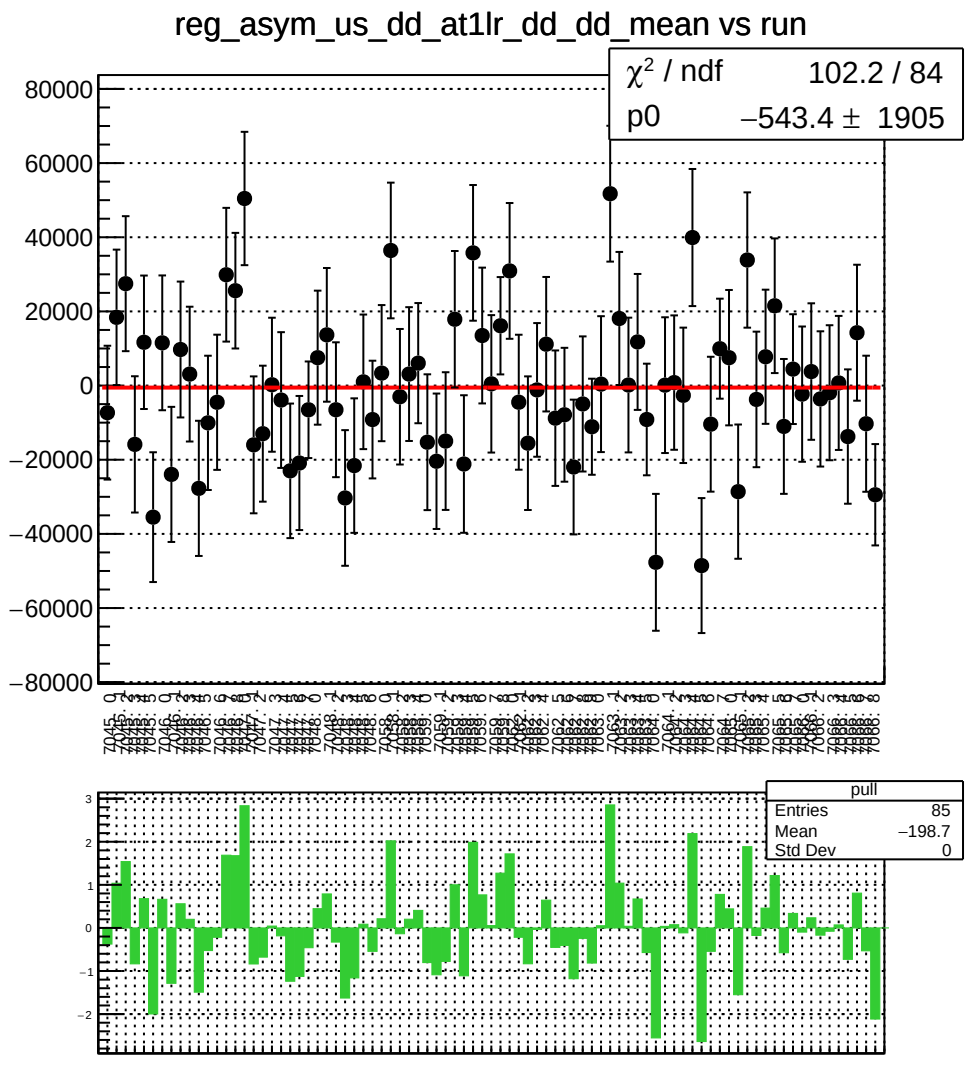

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.5 / 84
p0 0.05317 ± 0.03923
pull
Entries 85
Mean 160.9
Std Dev 0

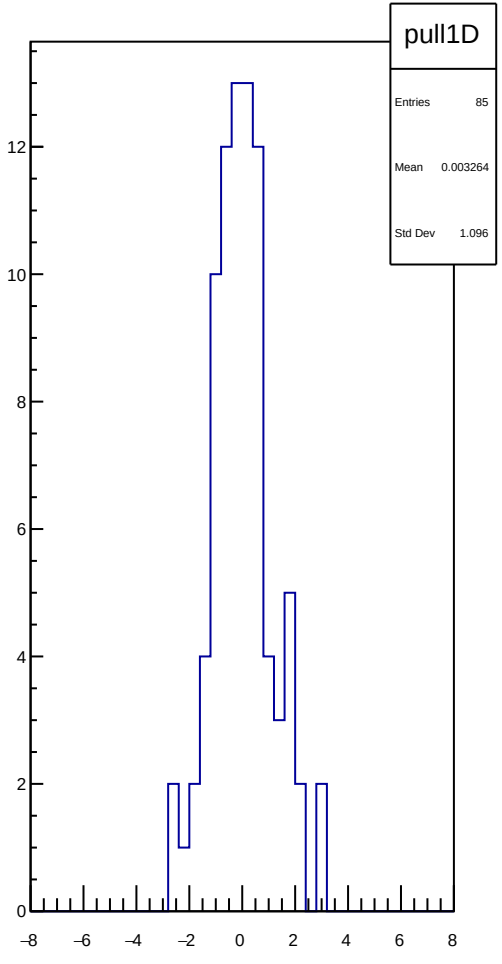

pull1D
Entries 85
Mean 0.01524
Std Dev 1.043

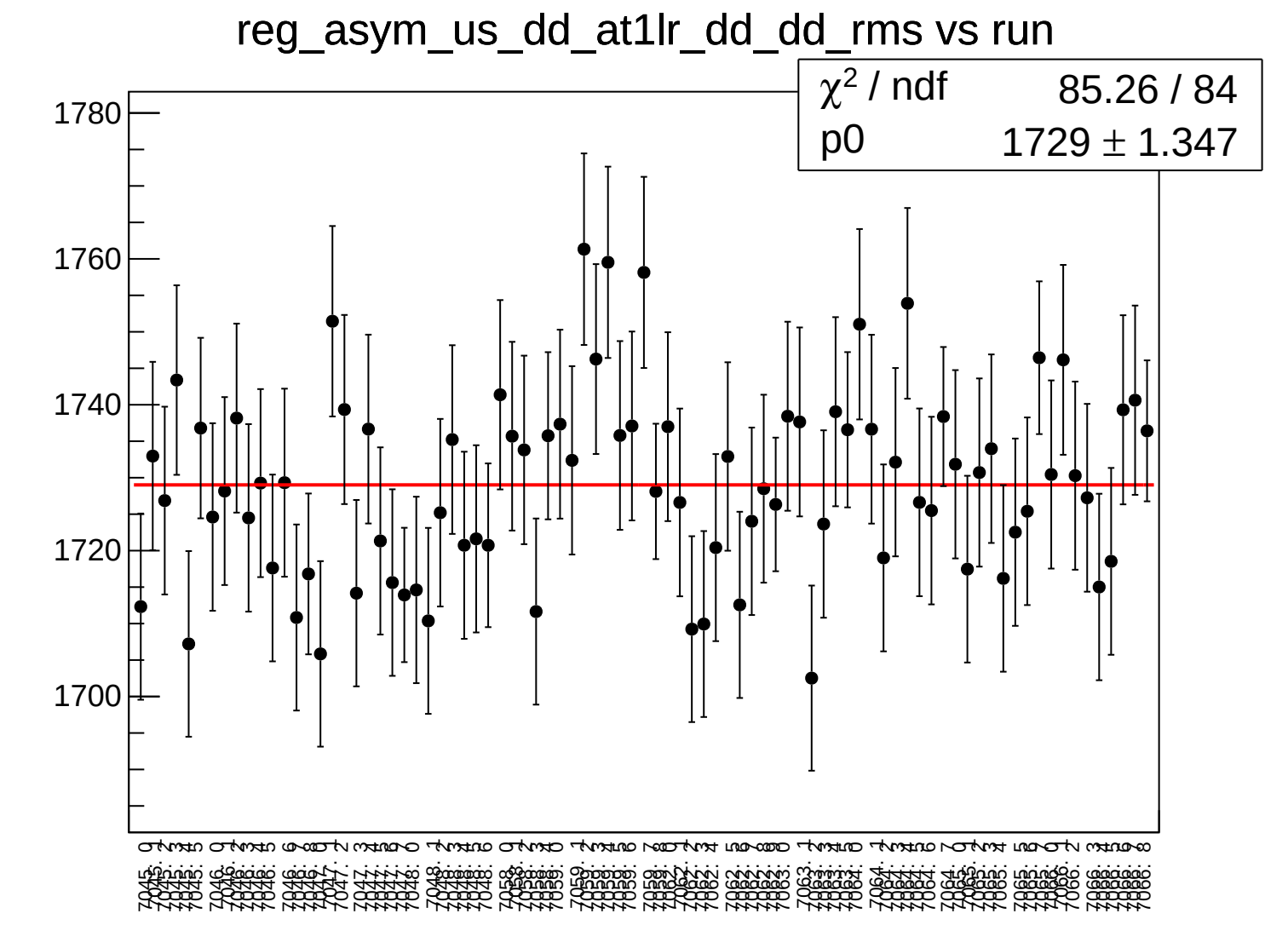

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.385e+05 / 84
p0 31.73 ± 0.02774
90
80
70
60
50
40
30
20
10

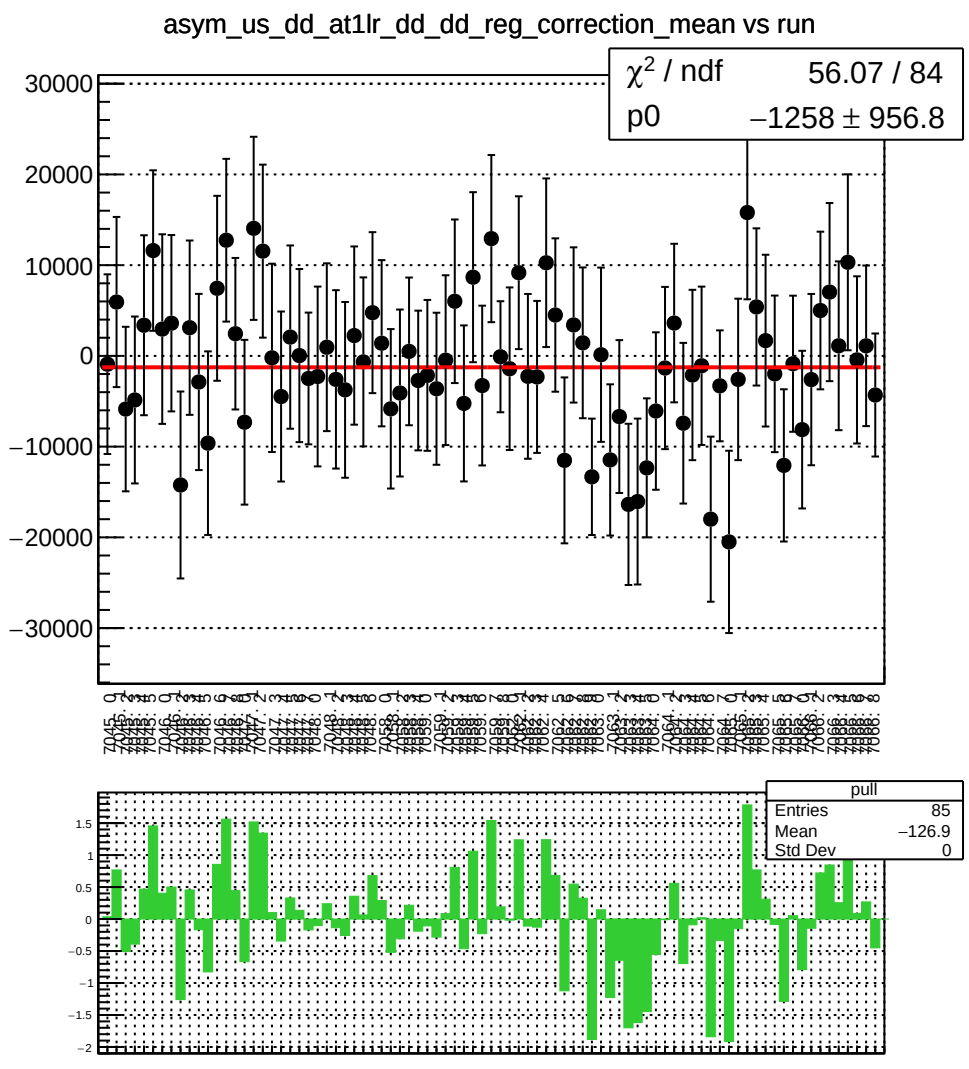

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.72 / 84
p0 5.594e−15 ± 4.246e−15
pull
Entries 85
Mean −2.129
Std Dev 0
pull1D
Entries 85
Mean −0.1062
Std Dev 1.05

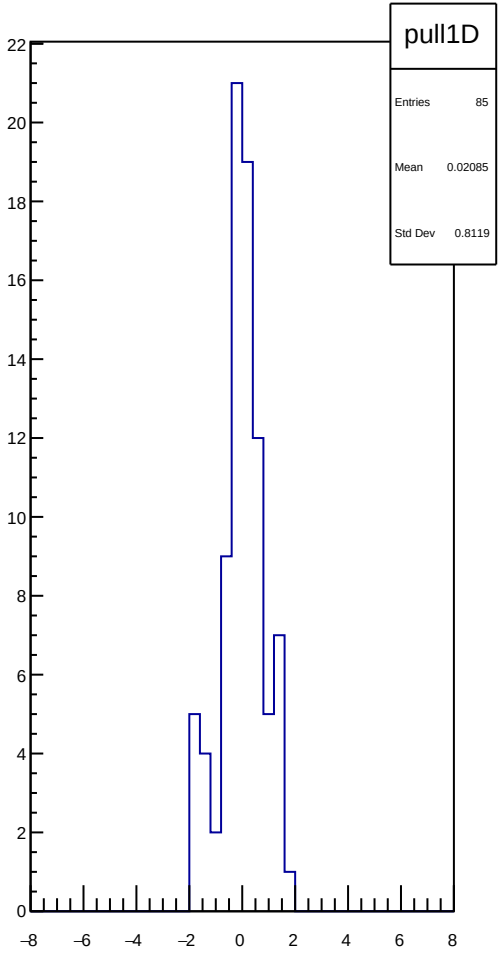

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.726e+05 / 84
p0 2.643e−12 ± 3.003e−15
70
60
50
40
30
20
10

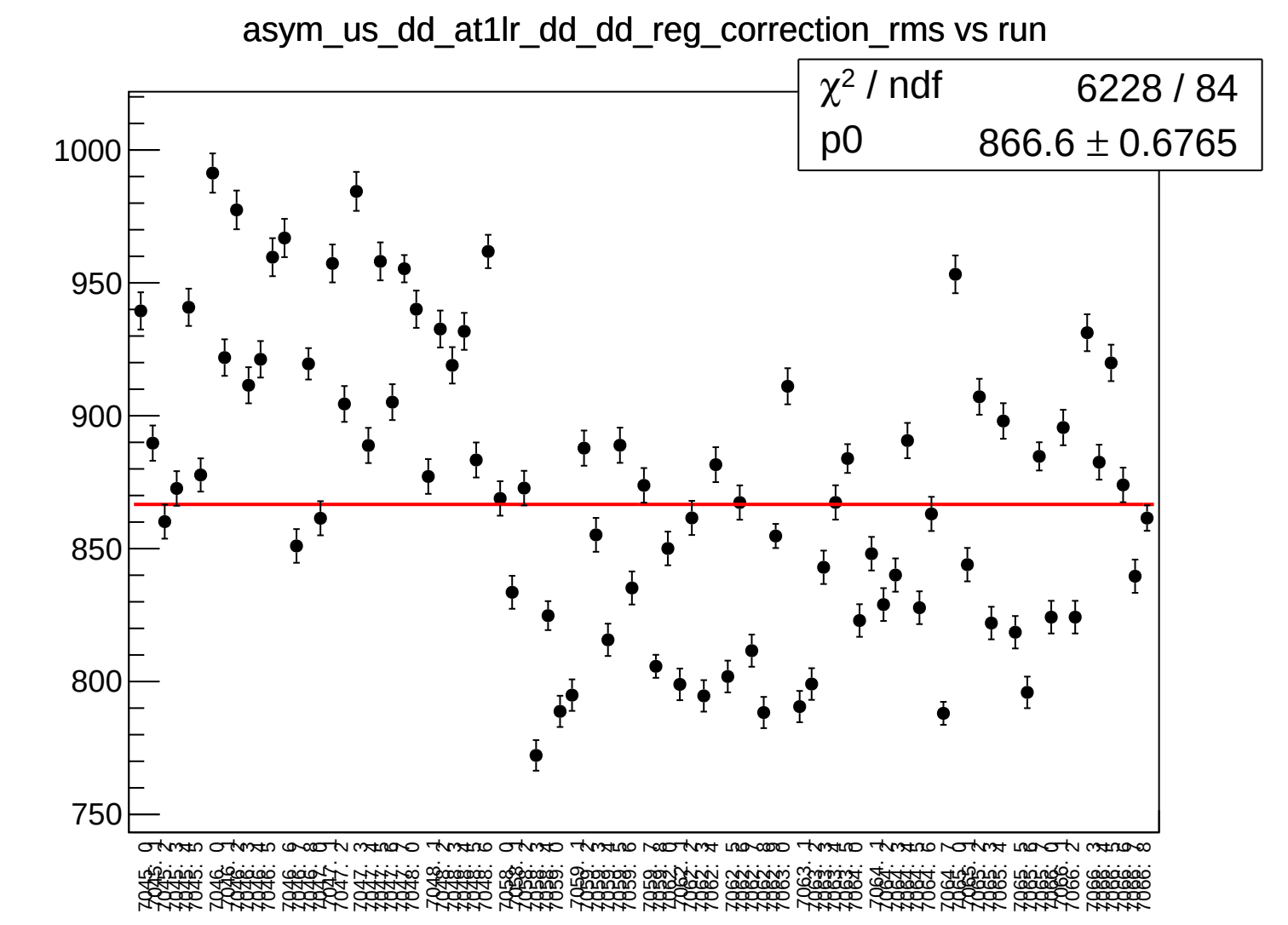

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.2 / 84
p0 −543.4 ± 1905
pull
Entries 85
Mean −198.7
Std Dev 0

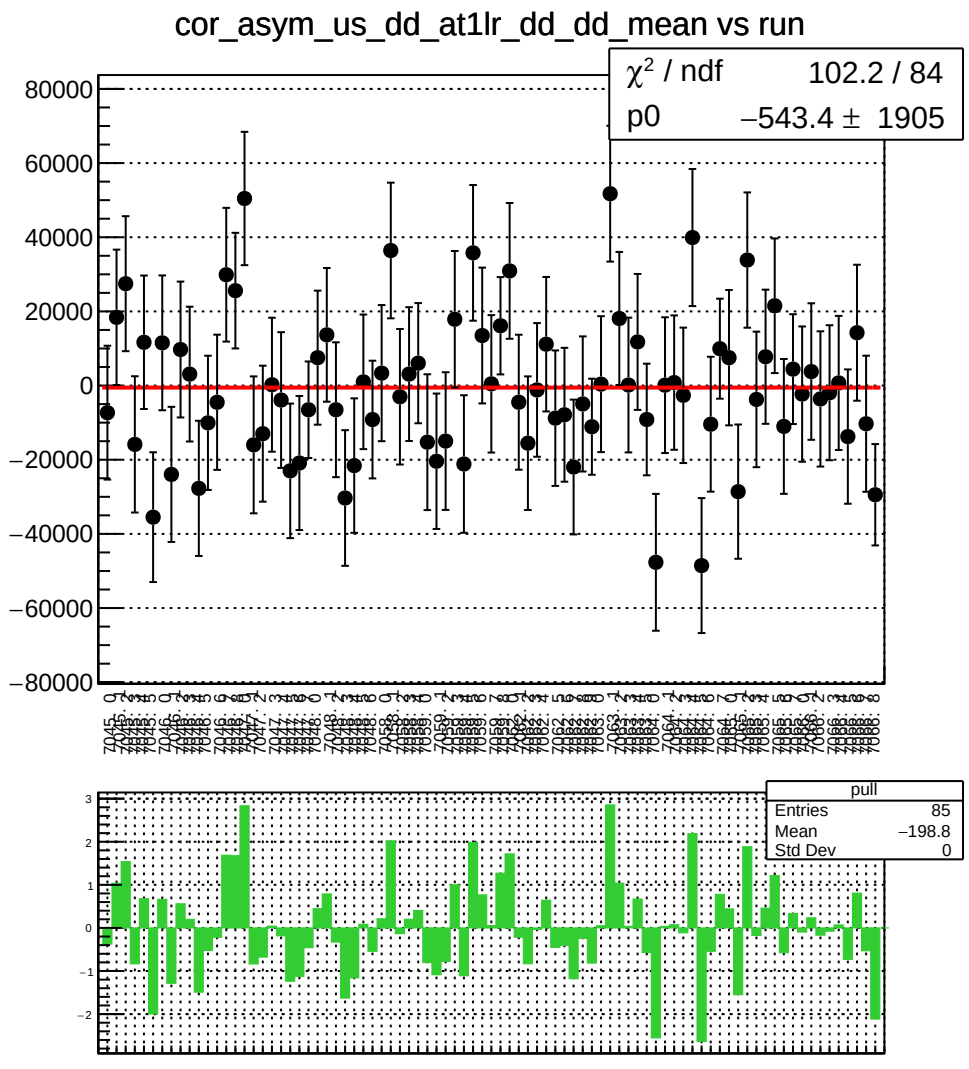

pull1D
Entries 85
Mean 0.003264
Std Dev 1.096

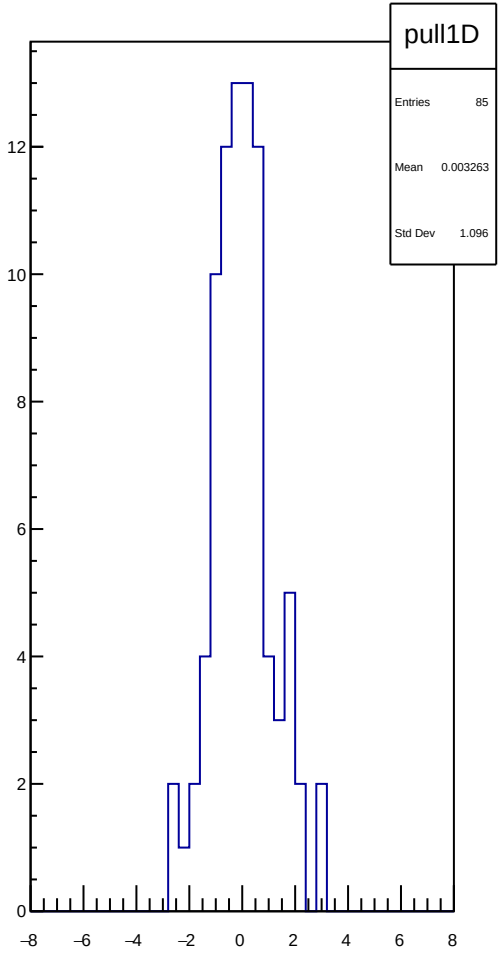

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.26 / 84
p0 1729 ± 1.347
1780
1760
1740
1720
1700

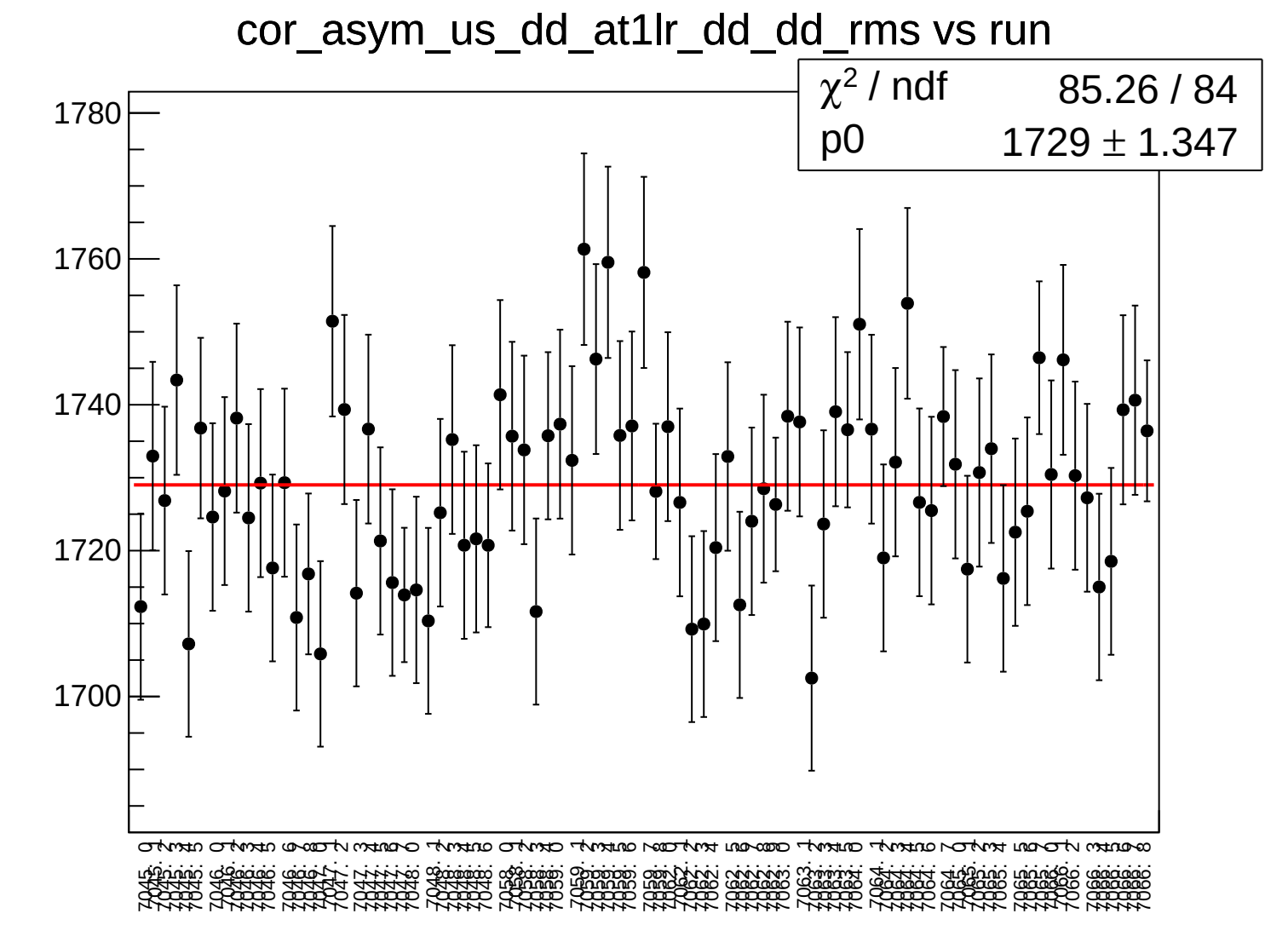

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 56.07 / 84
p0 −1258 ± 956.8
pull
Entries 85
Mean −126.9
Std Dev 0

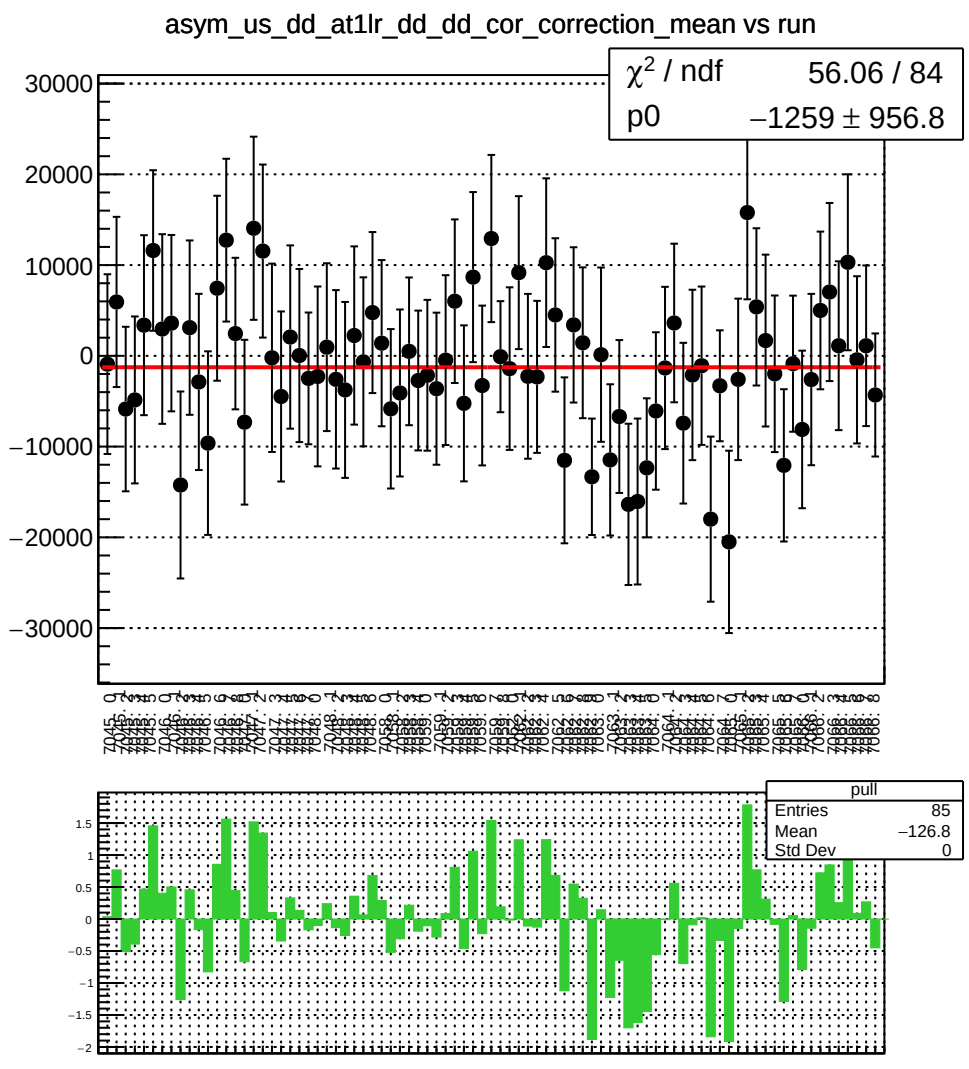

pull1D
Entries 85
Mean 0.02085
Std Dev 0.8119

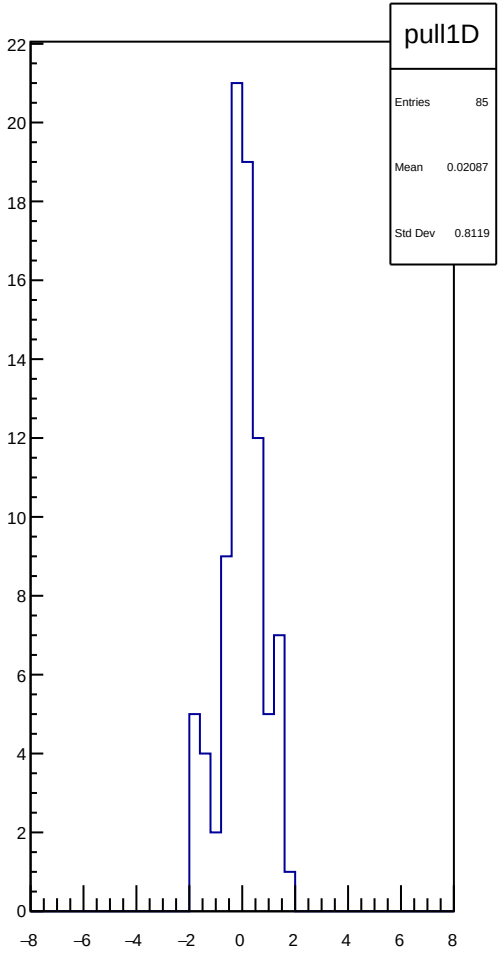

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6228 / 84
p0 866.6 ± 0.6765
1000
950
900
850
800
750

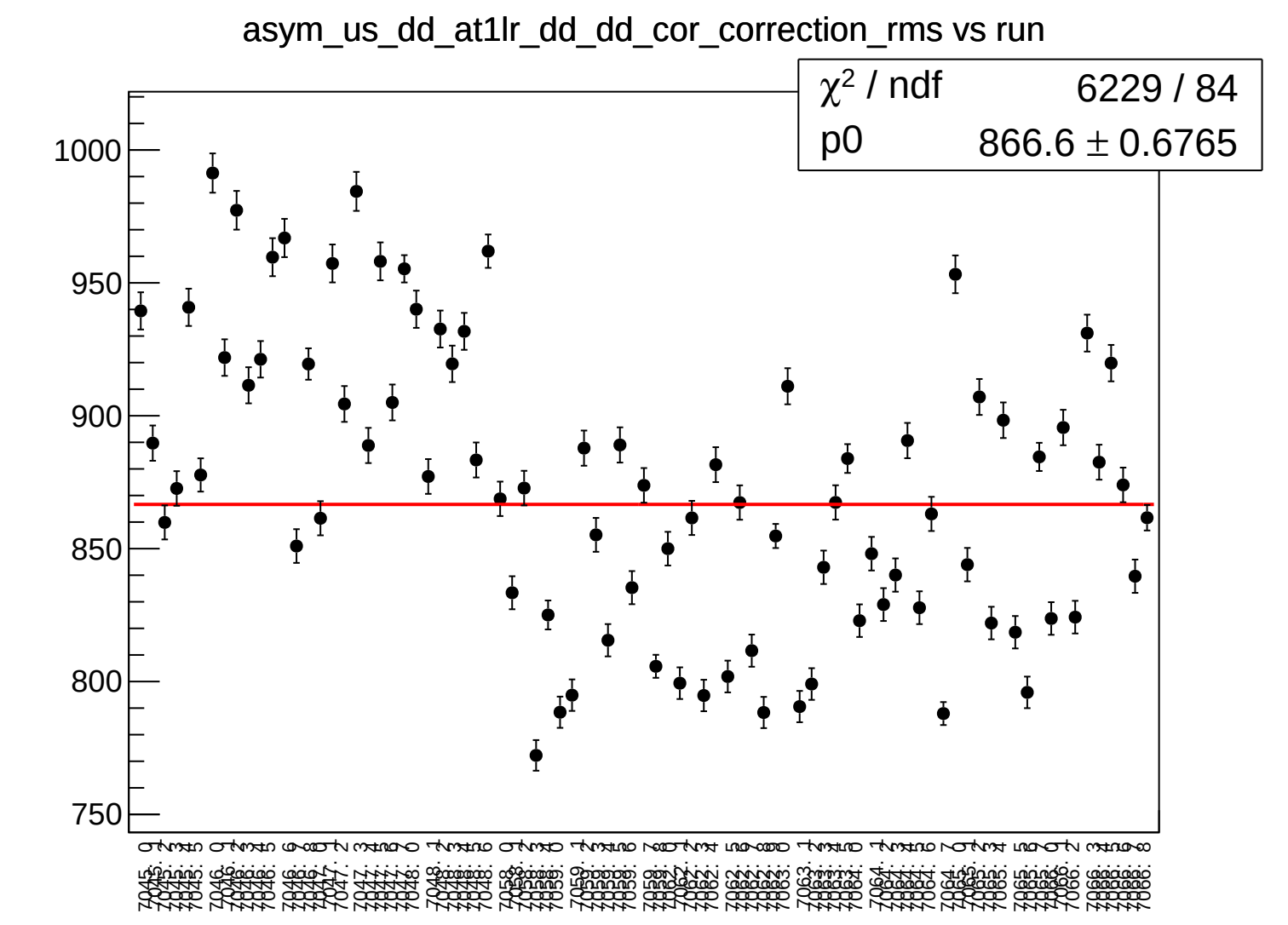

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.2 / 84
p0 −543.4 ± 1905
pull
Entries 85
Mean −198.8
Std Dev 0

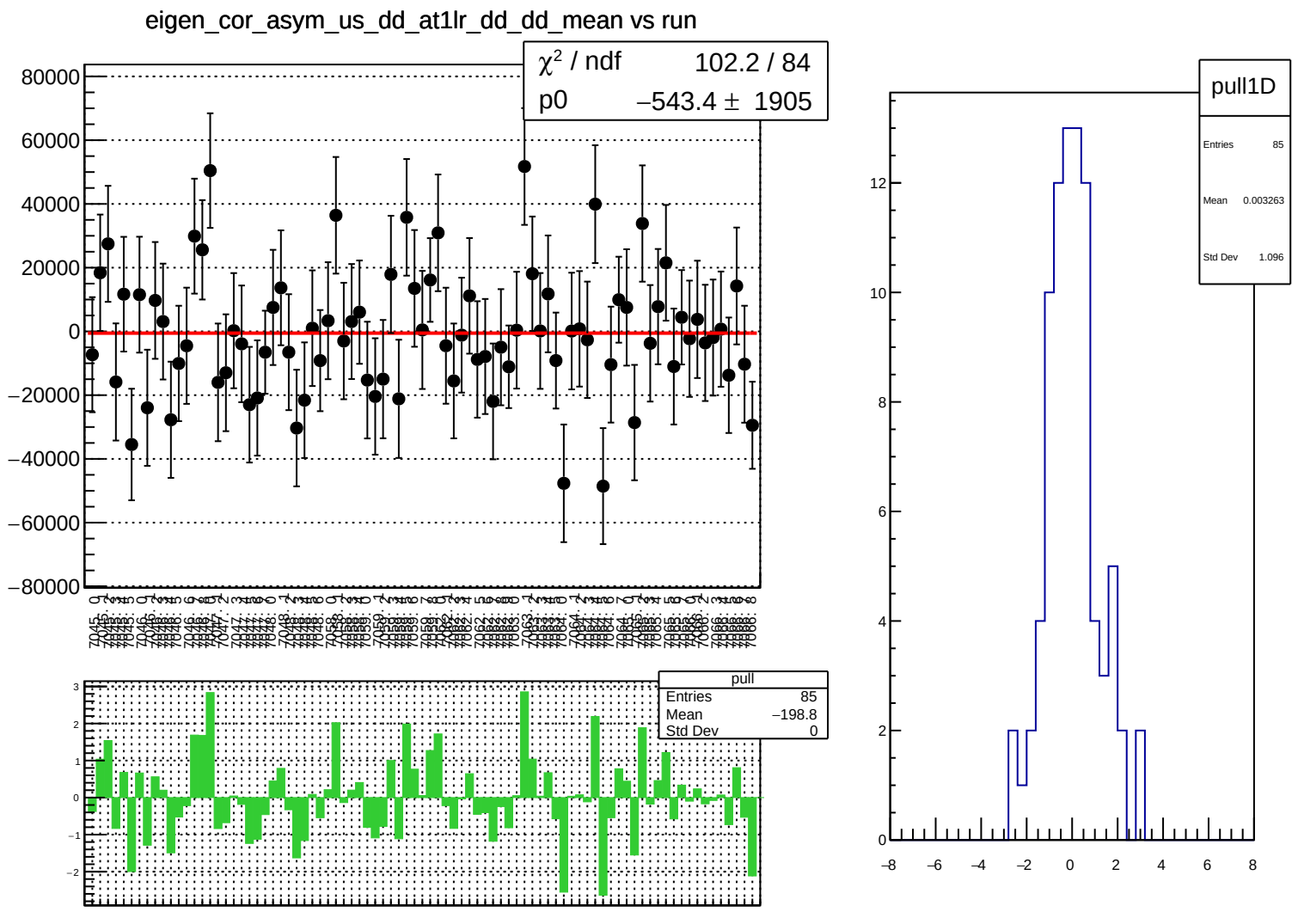

pull1D
Entries 85
Mean 0.003263
Std Dev 1.096

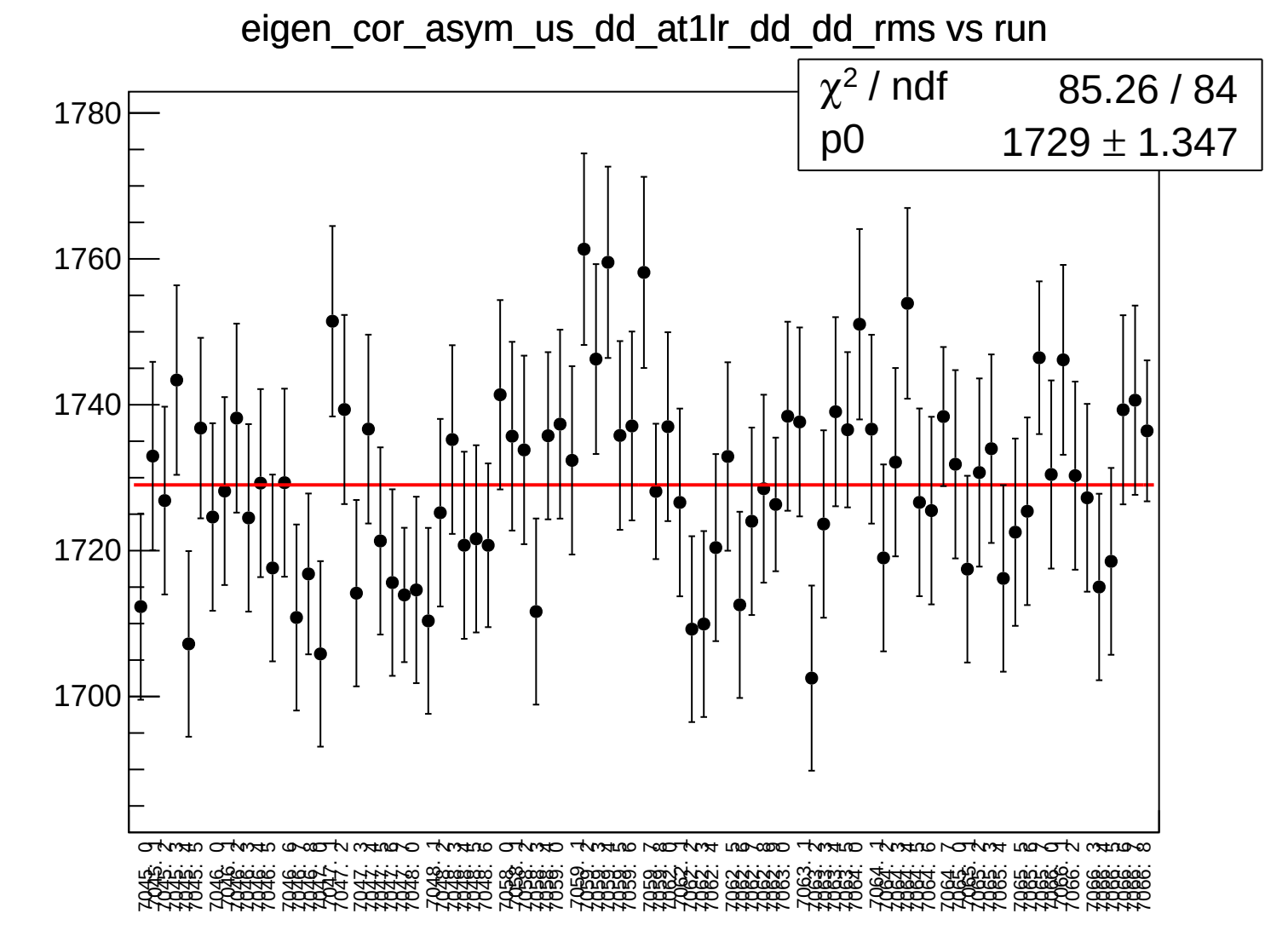

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.26 / 84
p0 1729 ± 1.347
1780
1760
1740
1720
1700

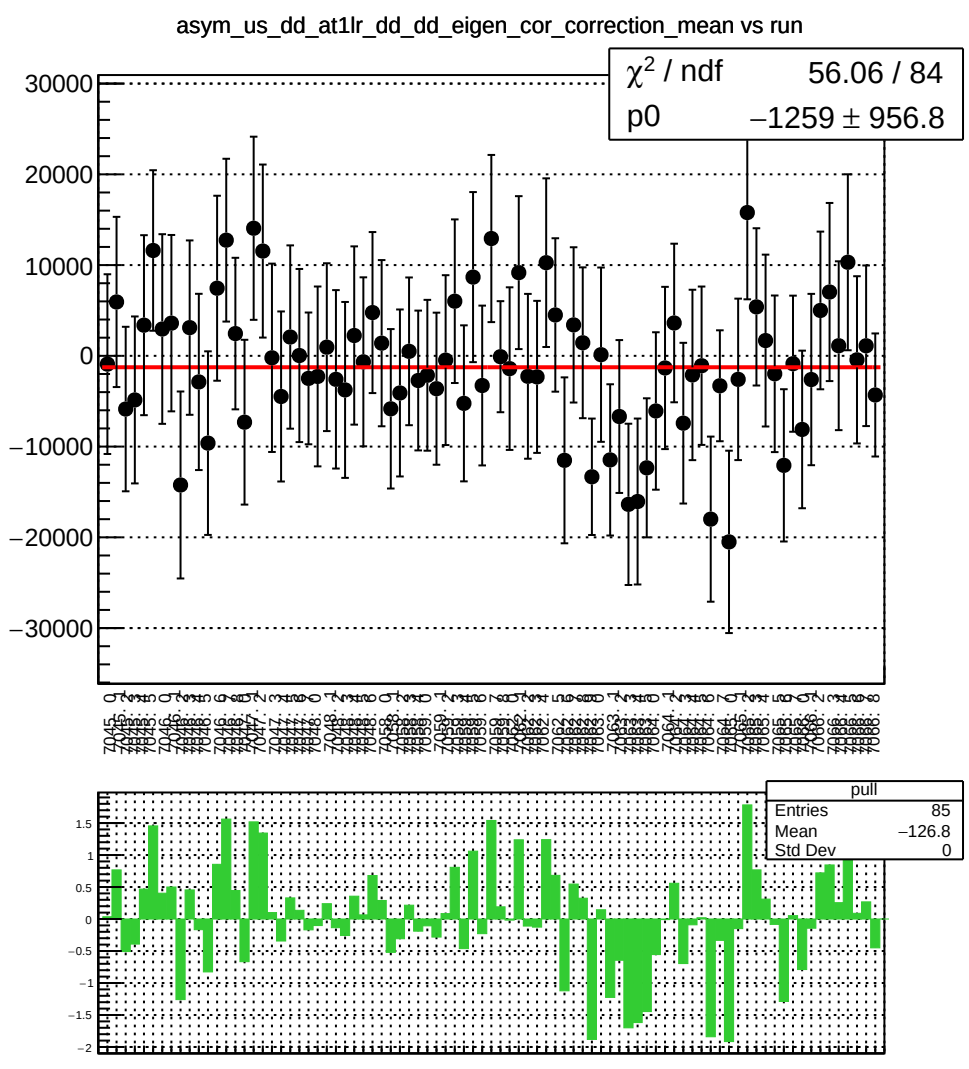

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 56.06 / 84
p0 −1259 ± 956.8
pull
Entries 85
Mean −126.8
Std Dev 0

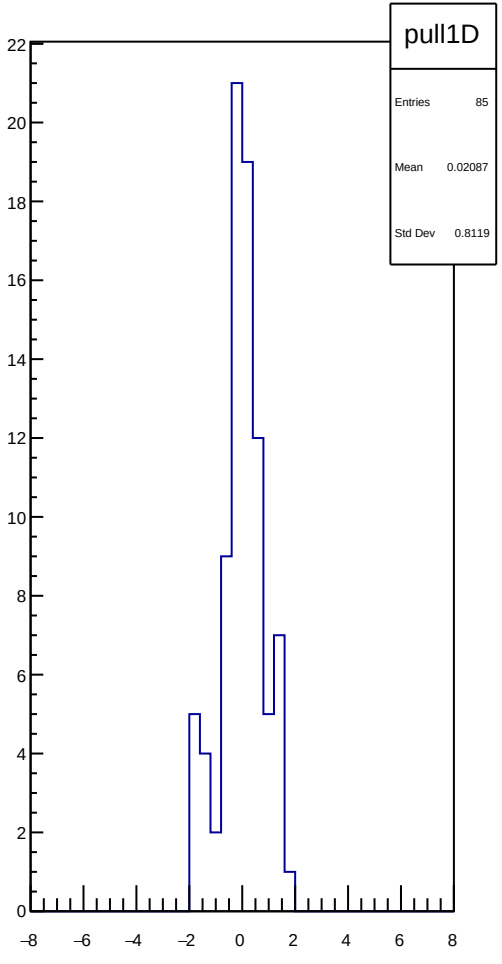

pull1D
Entries 85
Mean 0.02087
Std Dev 0.8119

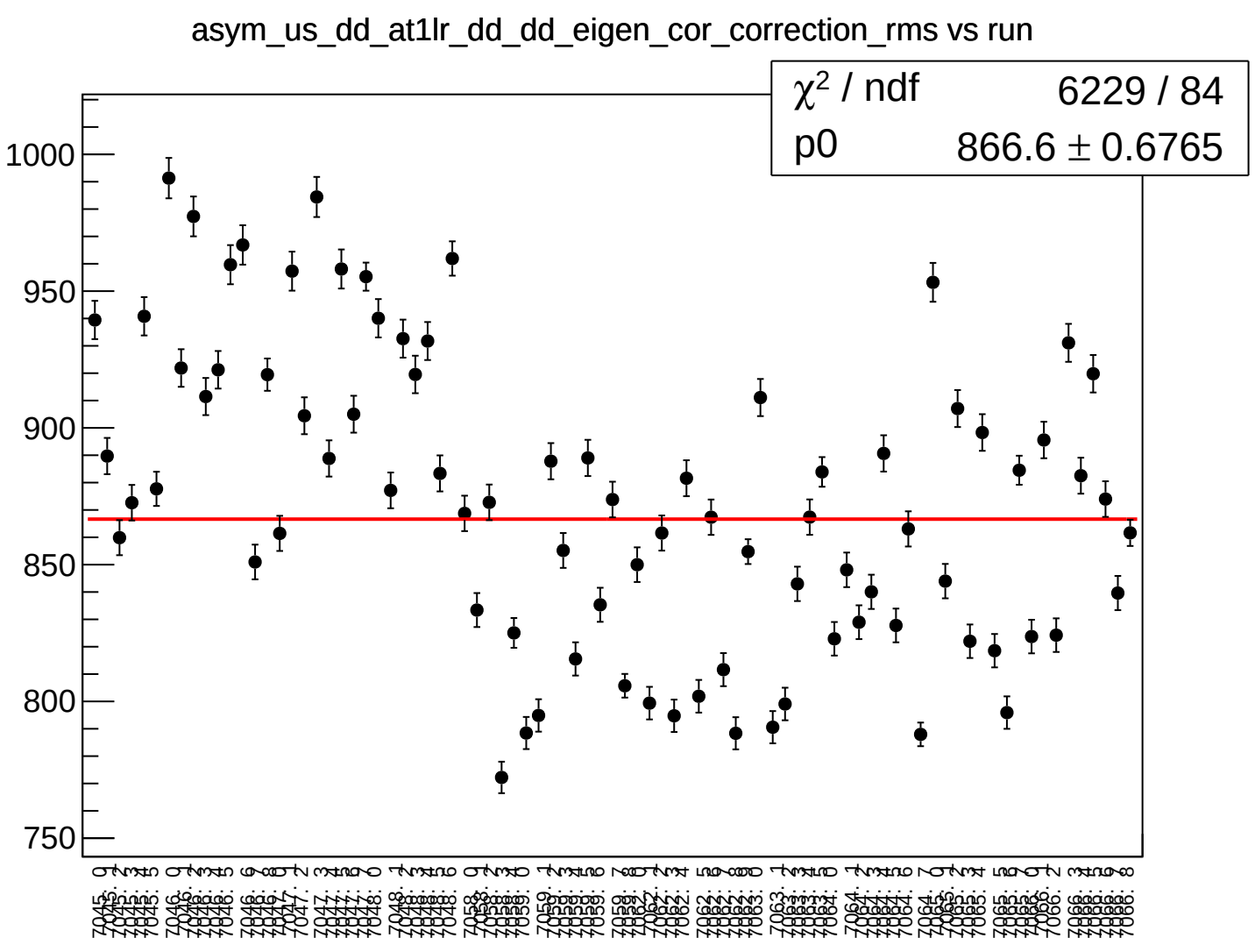

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6229 / 84
p0 866.6 ± 0.6765
1000
950
900
850
800
750

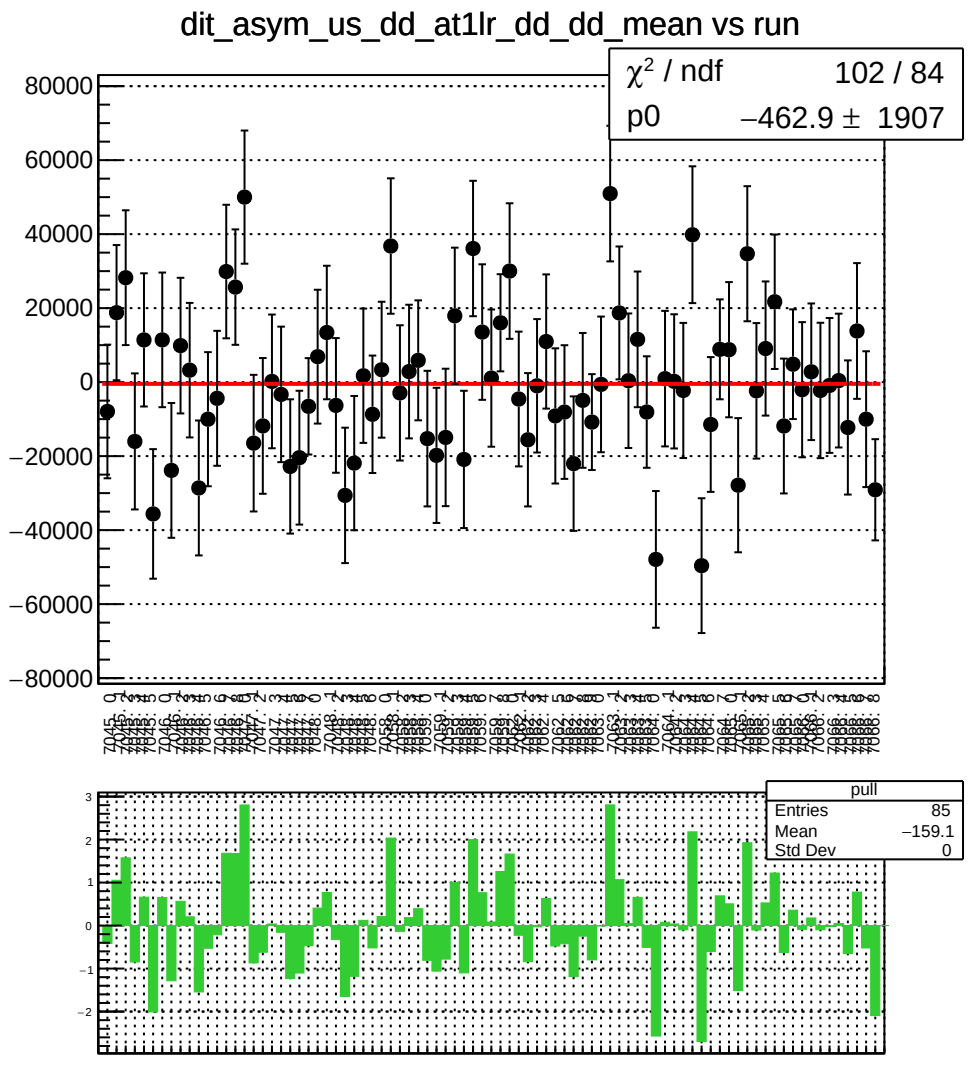

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.2 / 84
p0 −543.4 ± 1905
pull
Entries 85
Mean −198.8
Std Dev 0
pull1D
Entries 85
Mean 0.003263
Std Dev 1.096

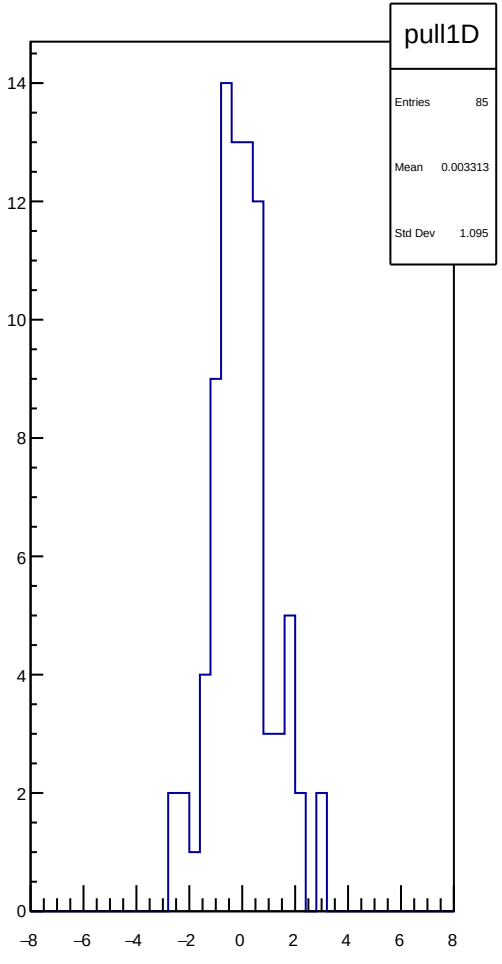

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.26 / 84
p0 1729 ± 1.347
1780
1760
1740
1720
1700

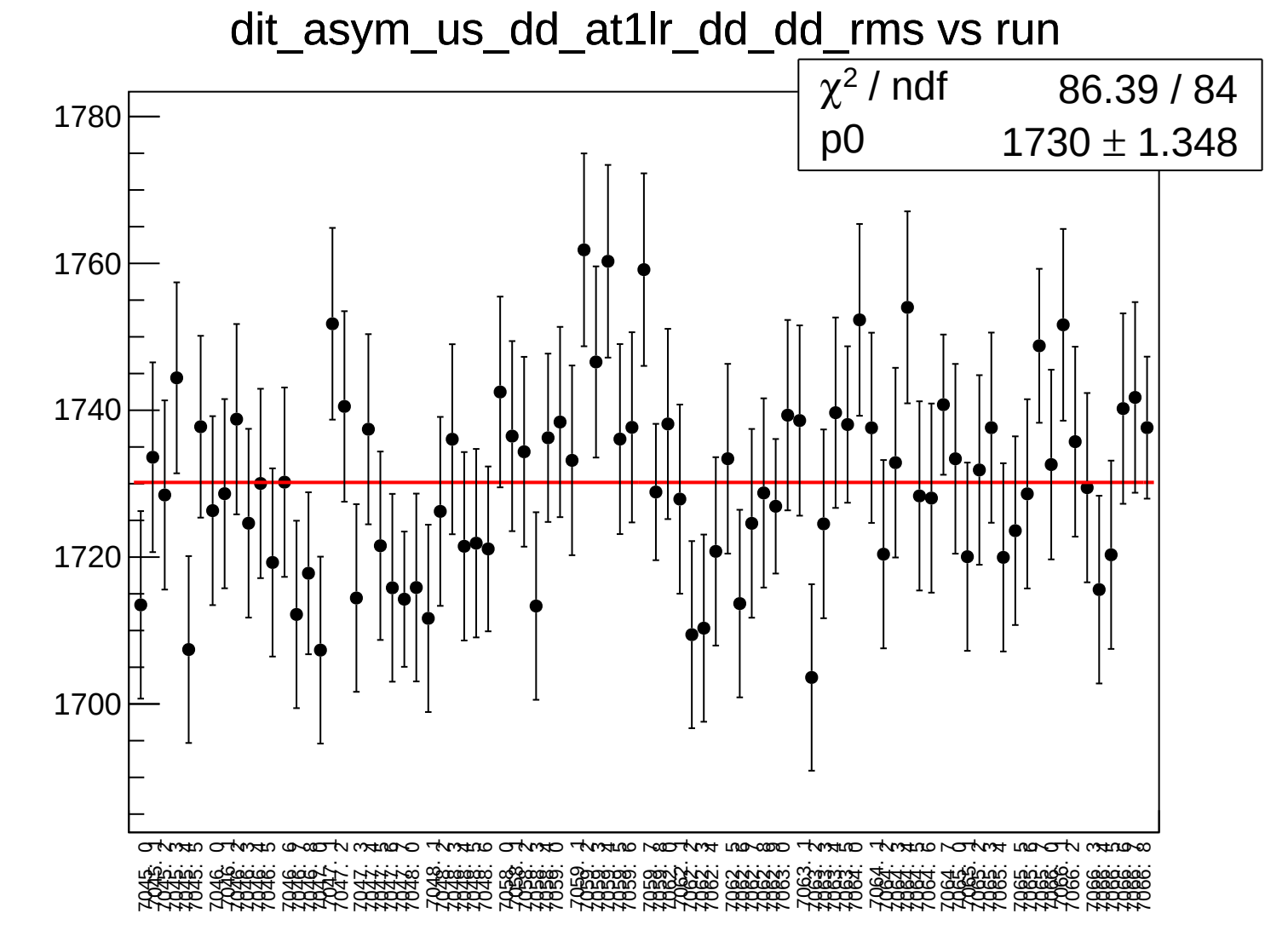

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 56.06 / 84
p0 −1259 ± 956.8
pull
Entries 85
Mean −126.8
Std Dev 0

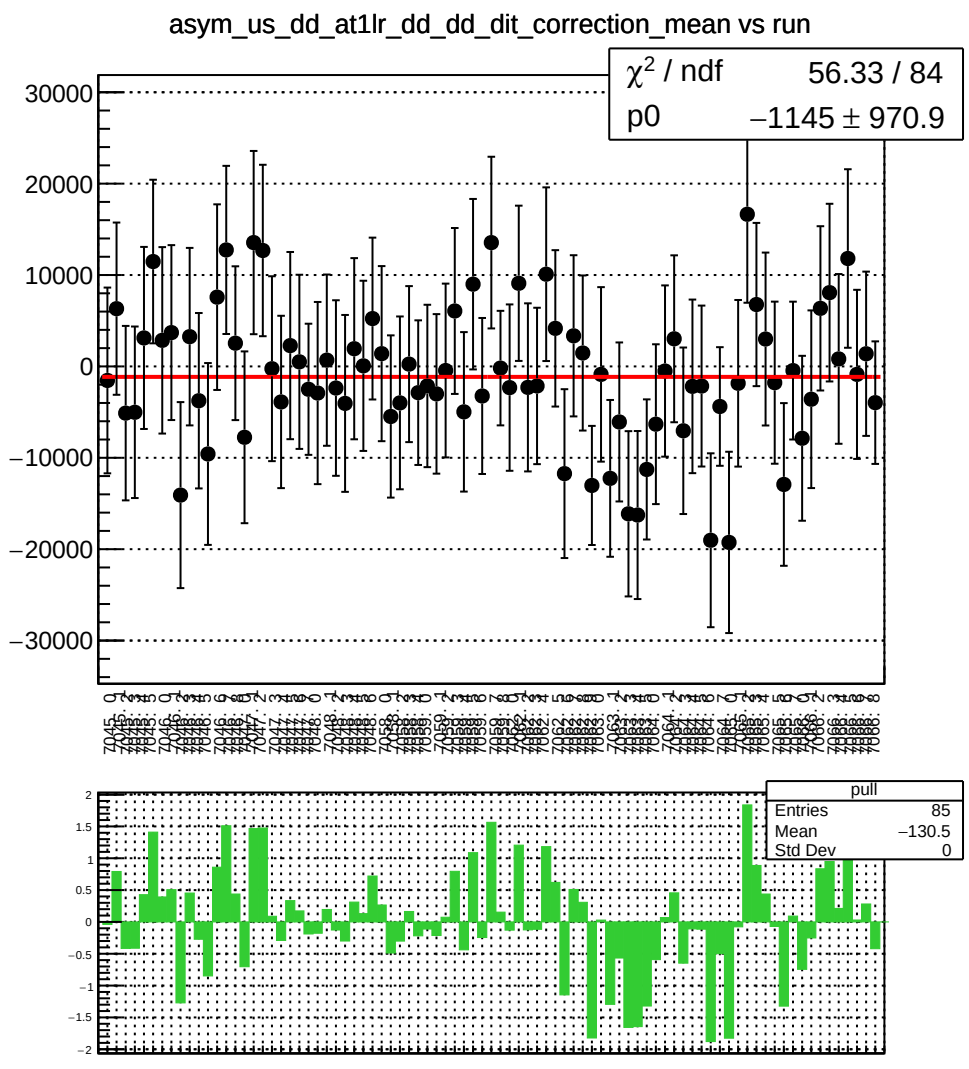

pull1D
Entries 85
Mean 0.02087
Std Dev 0.8119

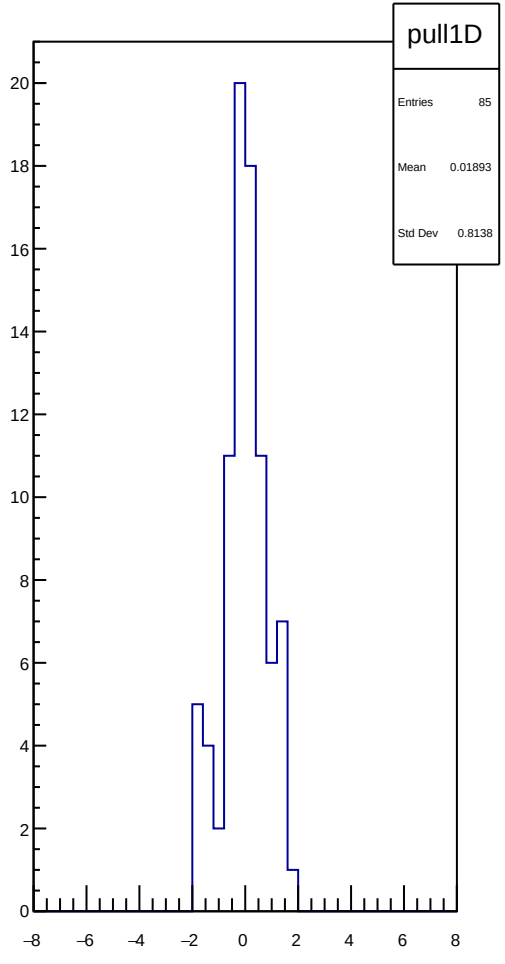

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6229 / 84
p0 866.6 ± 0.6765
1000
950
900
850
800
750

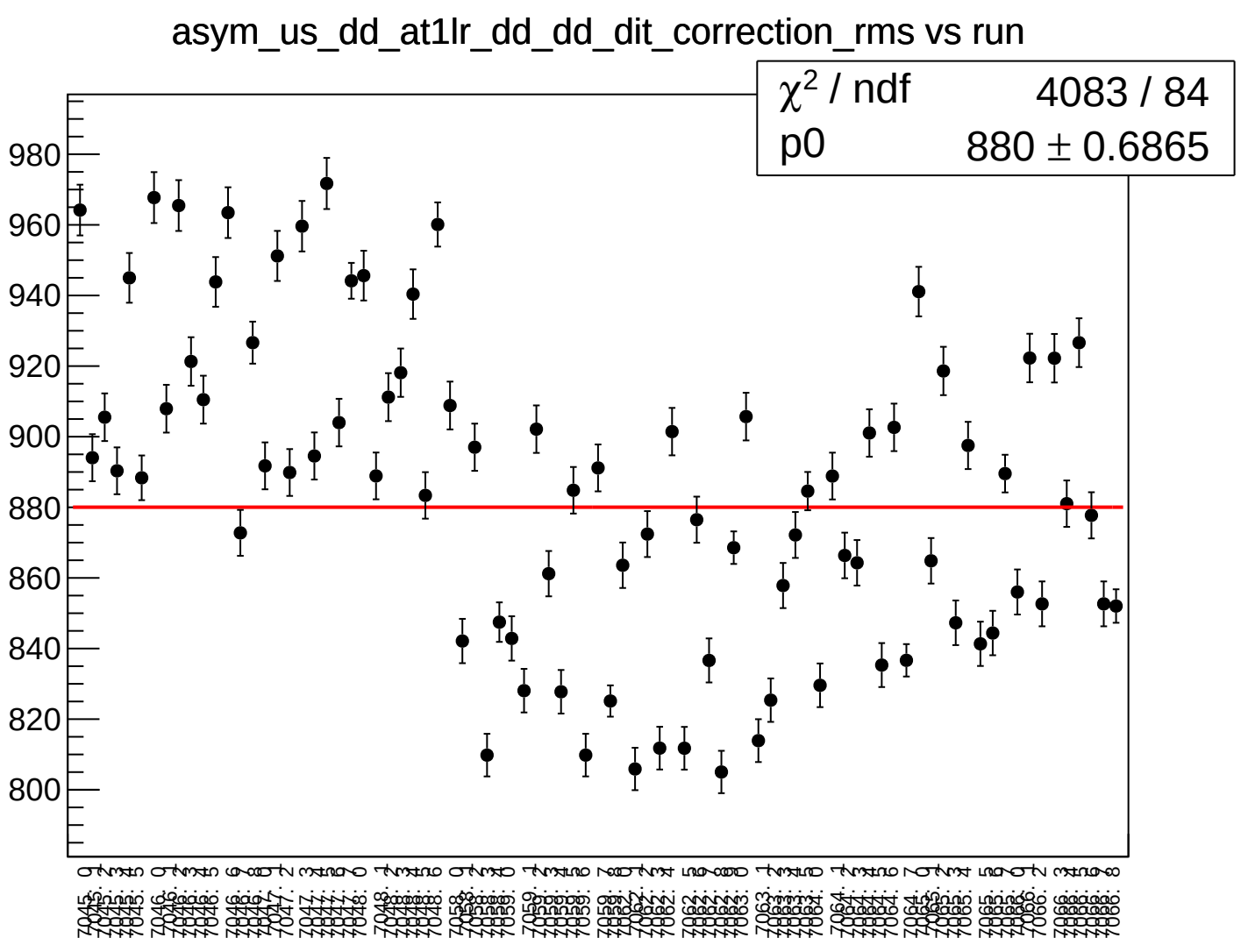

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102 / 84
p0 −462.9 ± 1907
pull
Entries 85
Mean −159.1
Std Dev 0

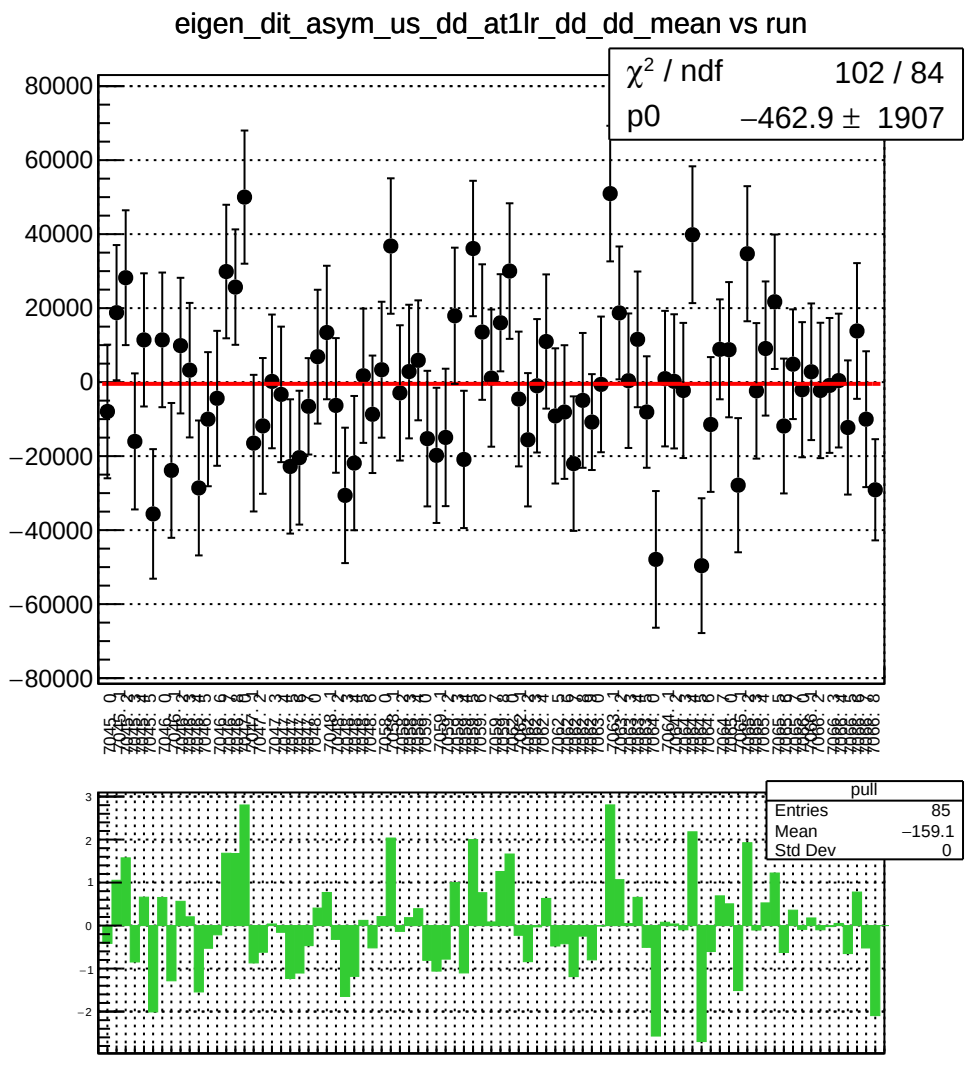

pull1D
Entries 85
Mean 0.003313
Std Dev 1.095

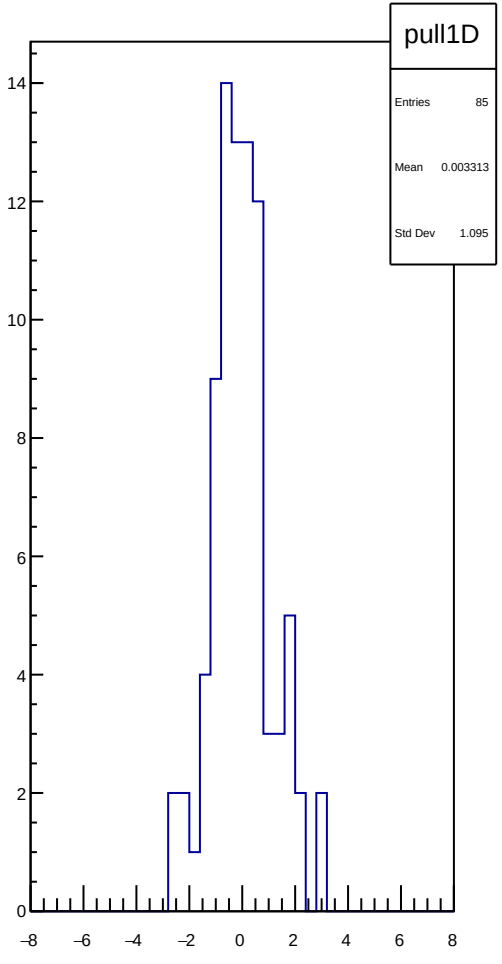

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 86.39 / 84
p0 1730 ± 1.348
1780
1760
1740
1720
1700

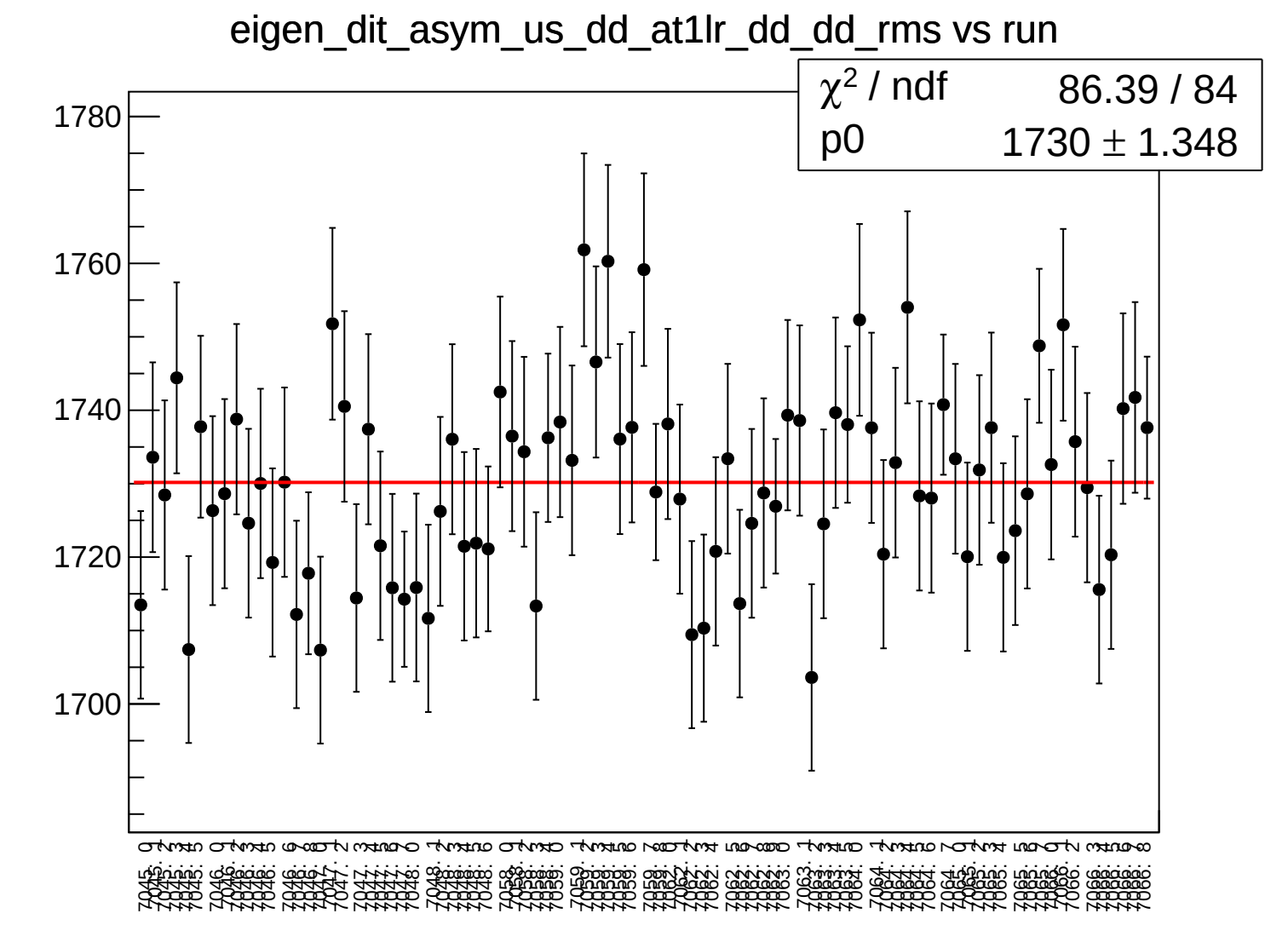

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 56.33 / 84
p0 −1145 ± 970.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −130.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

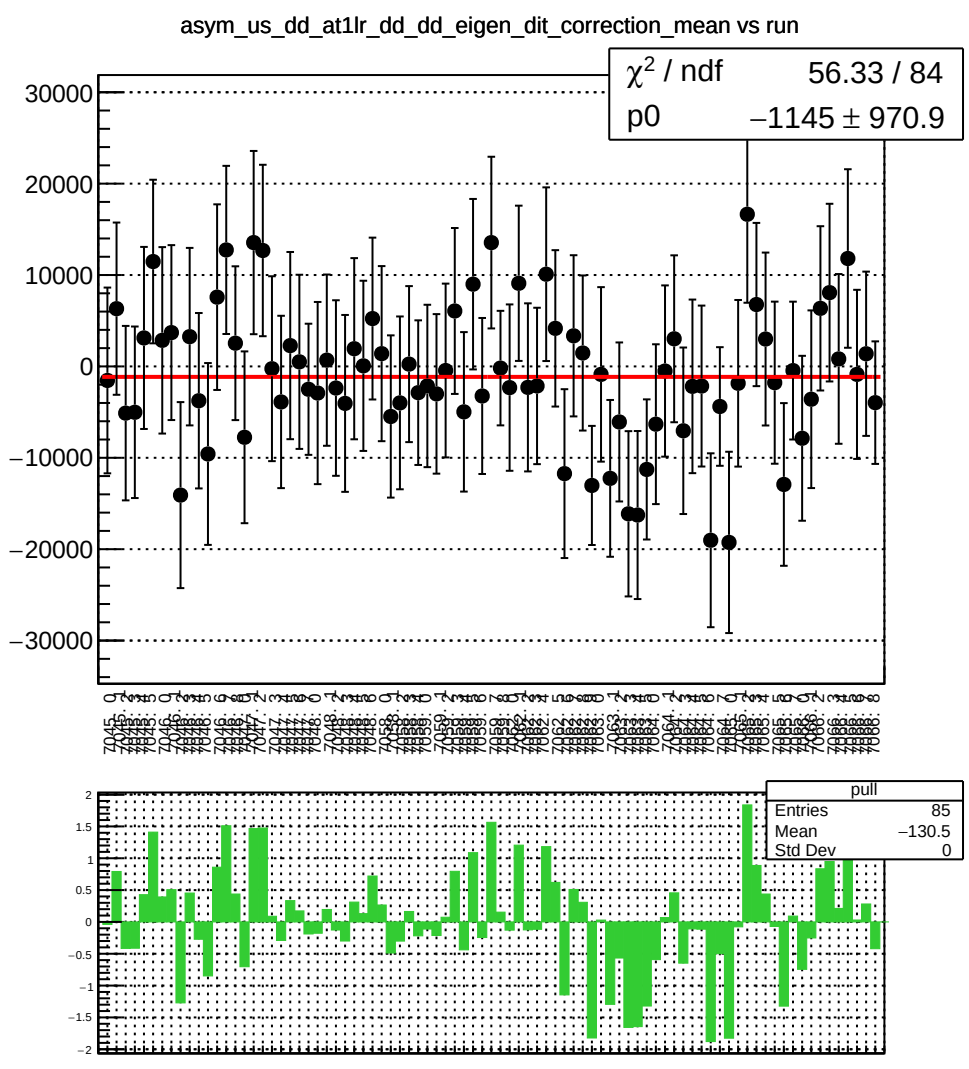

pull1D
Entries 85
Mean 0.01893
Std Dev 0.8138
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

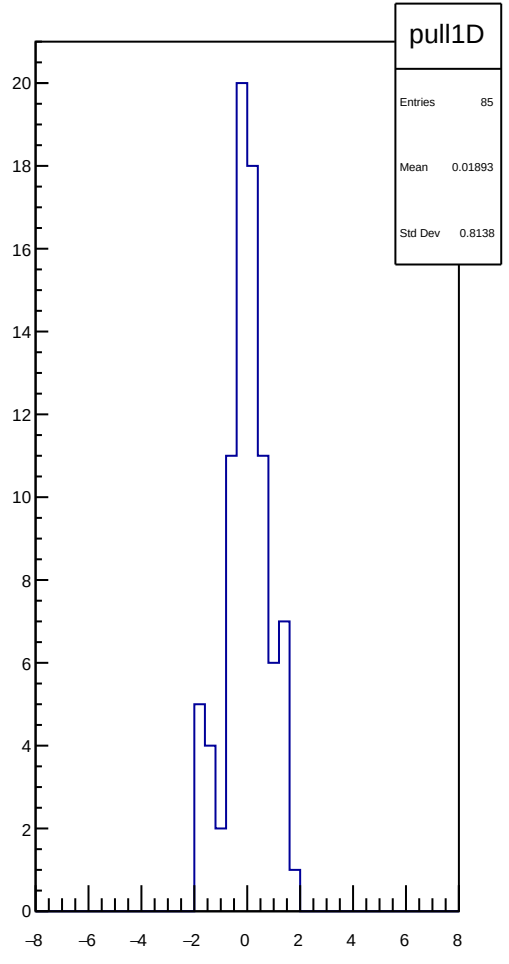

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4083 / 84
p0 880 ± 0.6865
980
960
940
920
900
880
860
840
820
800

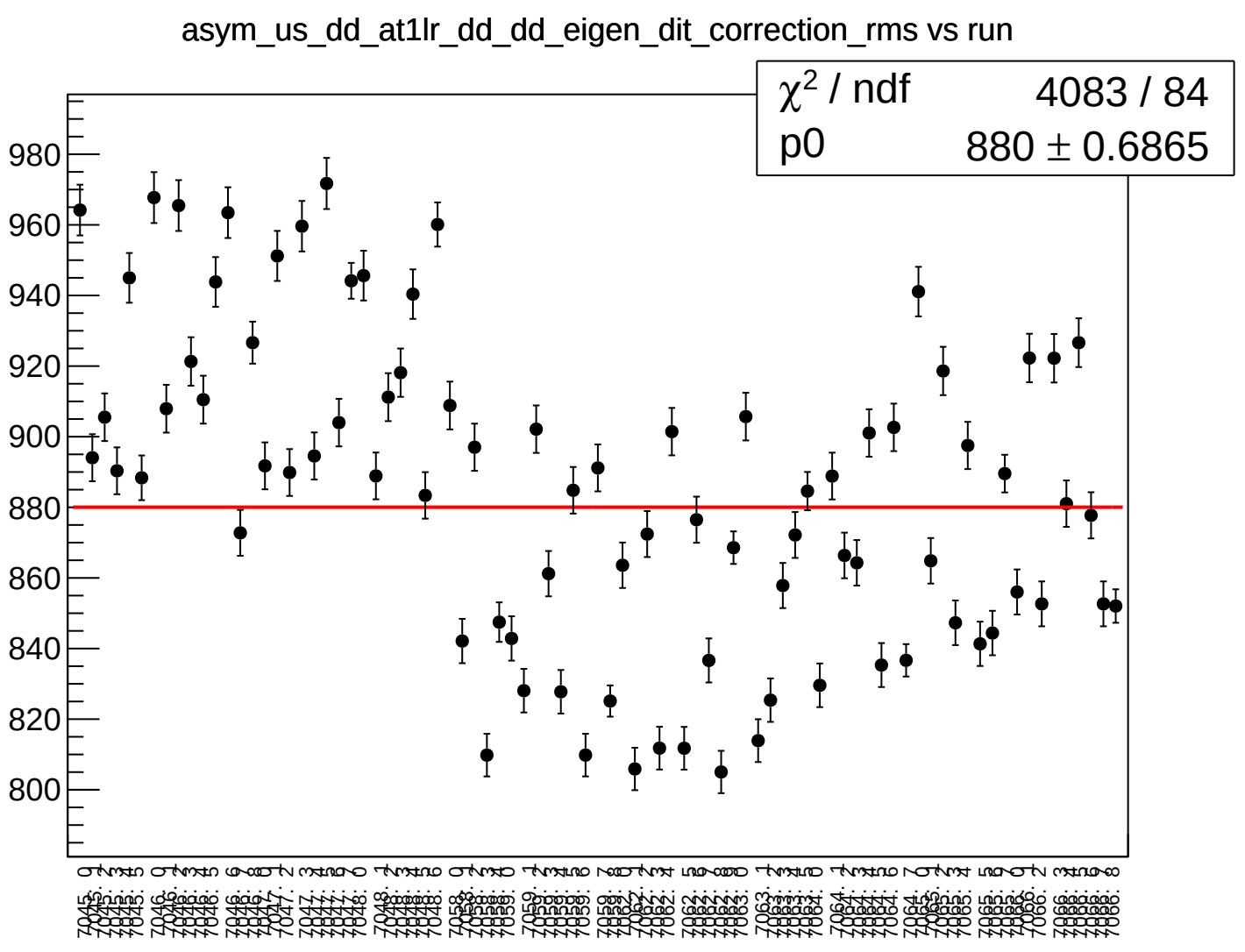

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102 / 84
p0 −462.9 ± 1907
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −159.1
Std Dev 0
3
2
1
0
−1
−2

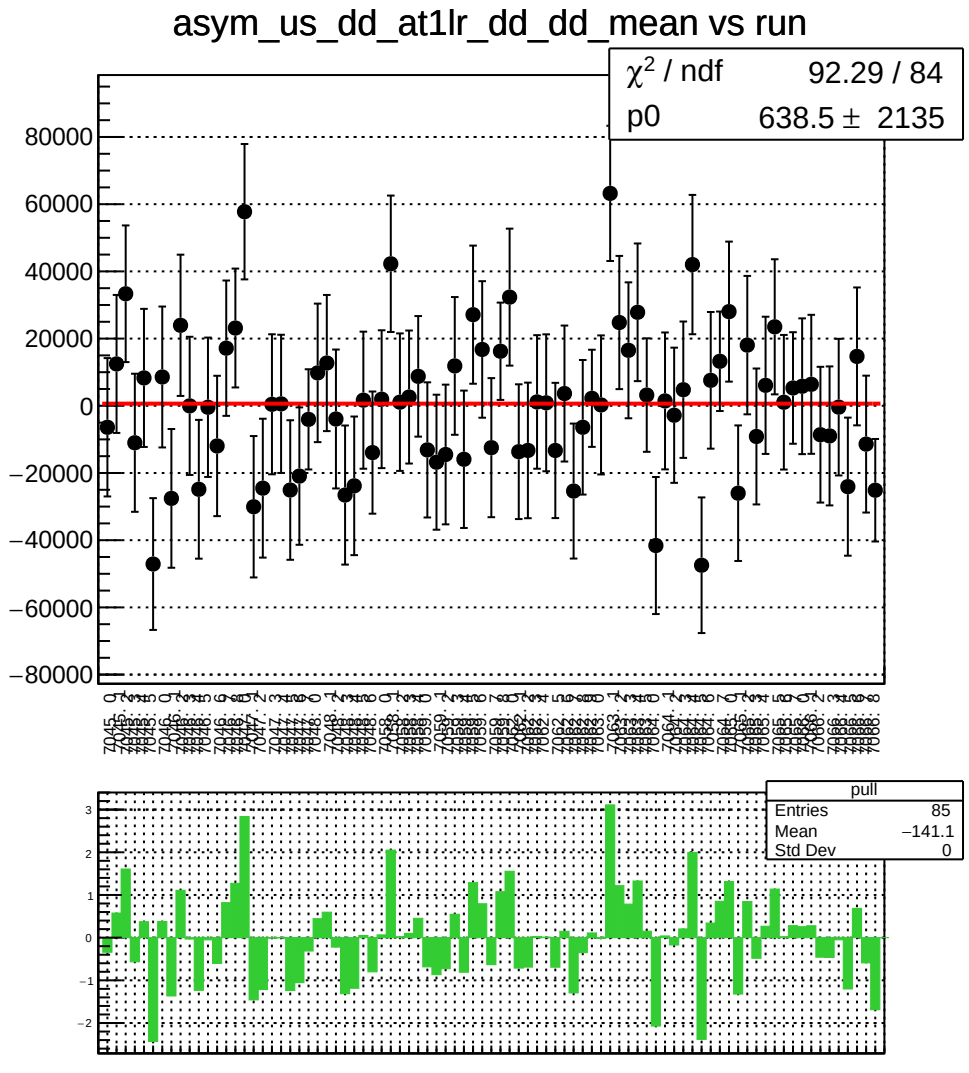

pull1D
Entries 85
Mean 0.003313
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

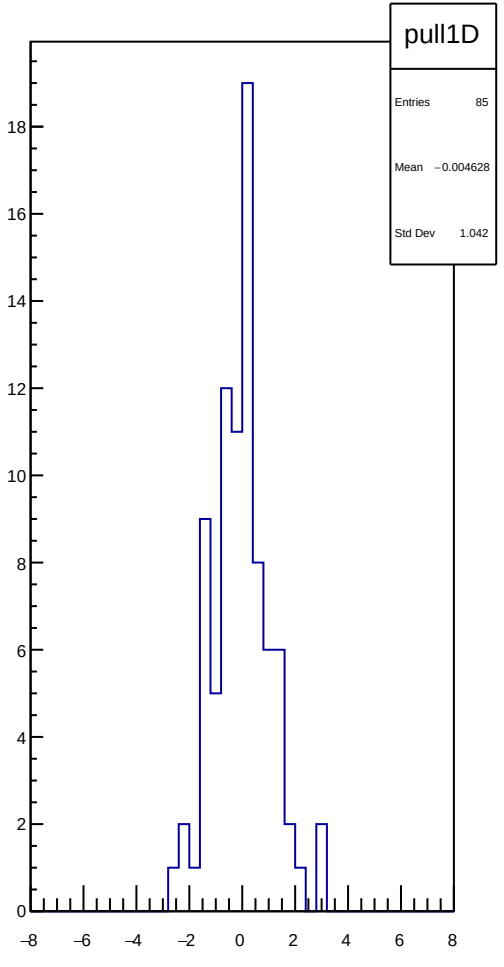

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 86.39 / 84
p0 1730 ± 1.348
1780
1760
1740
1720
1700

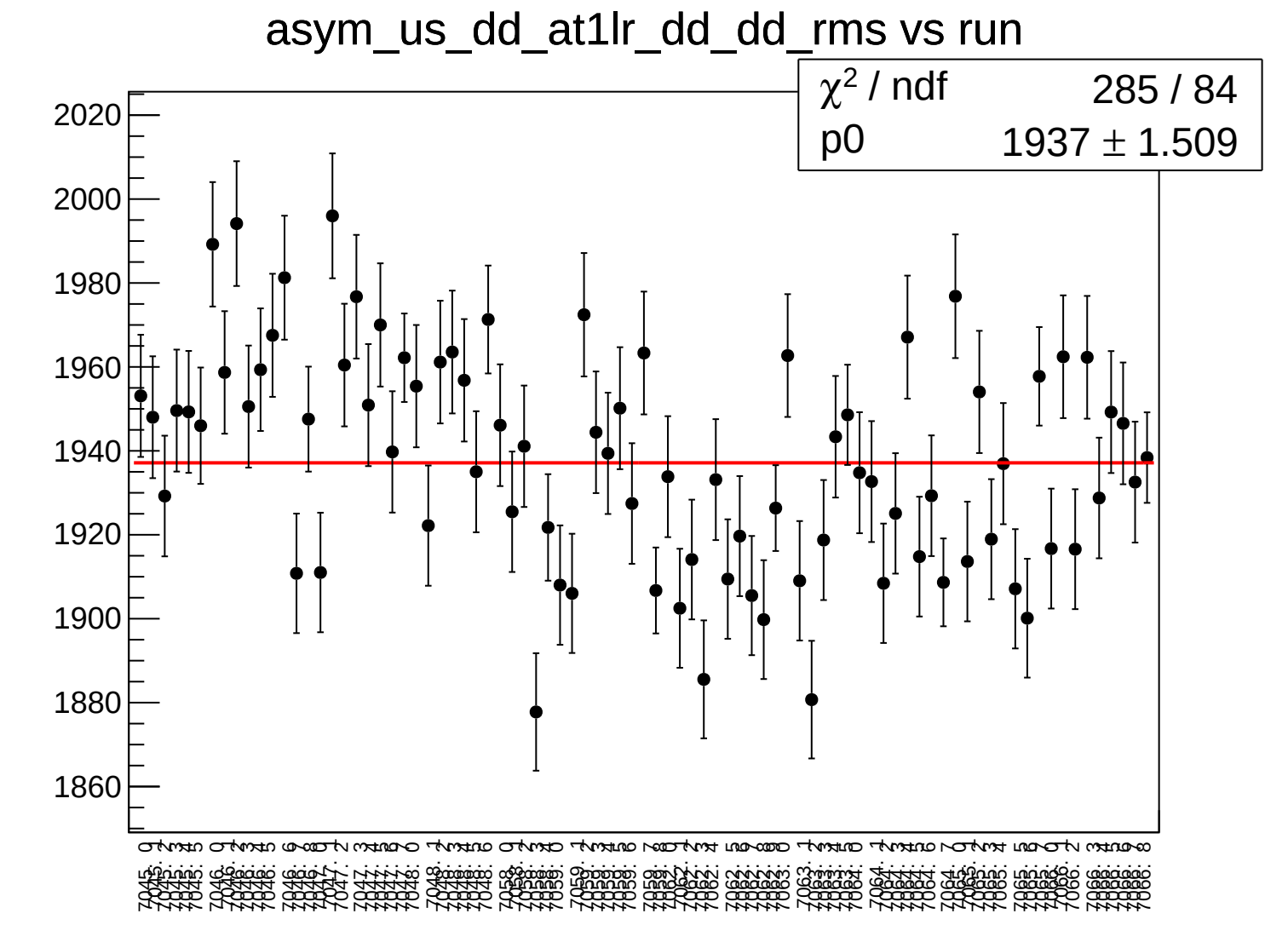

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.33 / 84
p0 −1145 ± 970.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −130.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

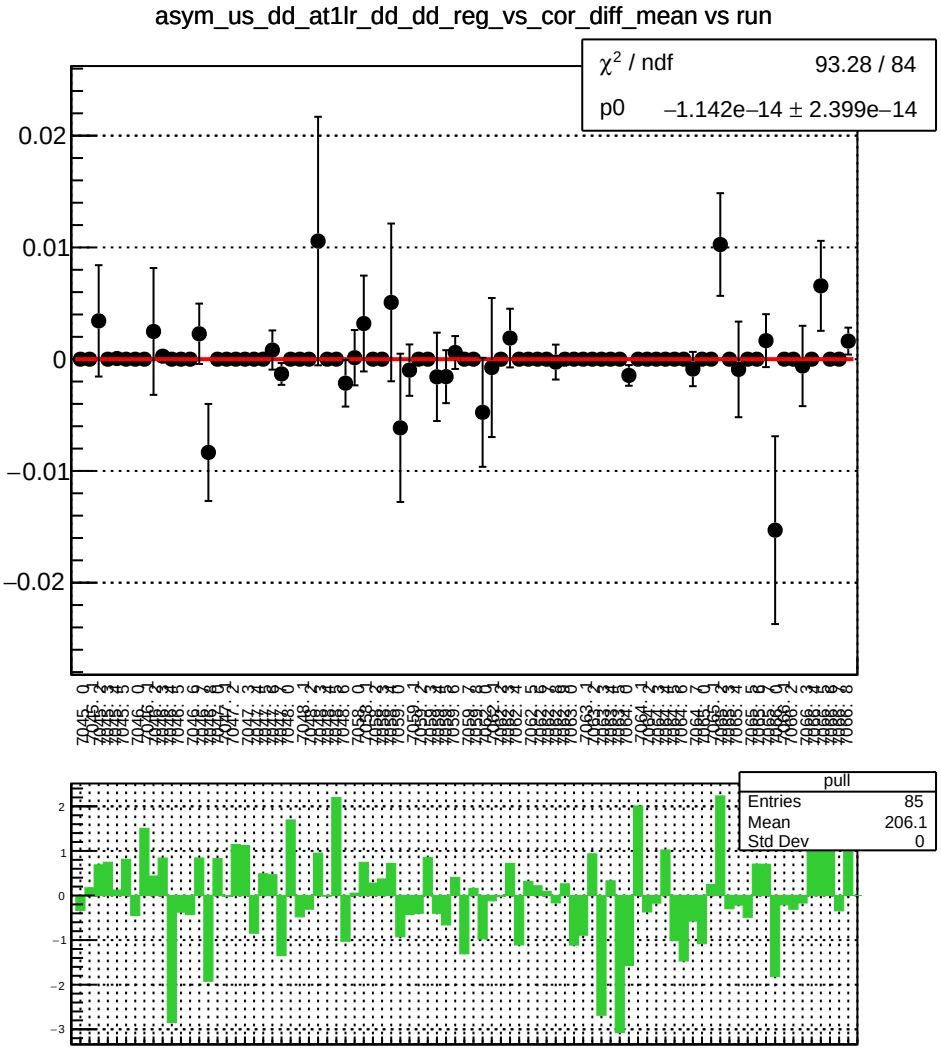

pull1D
Entries 85
Mean 0.01893
Std Dev 0.8138
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

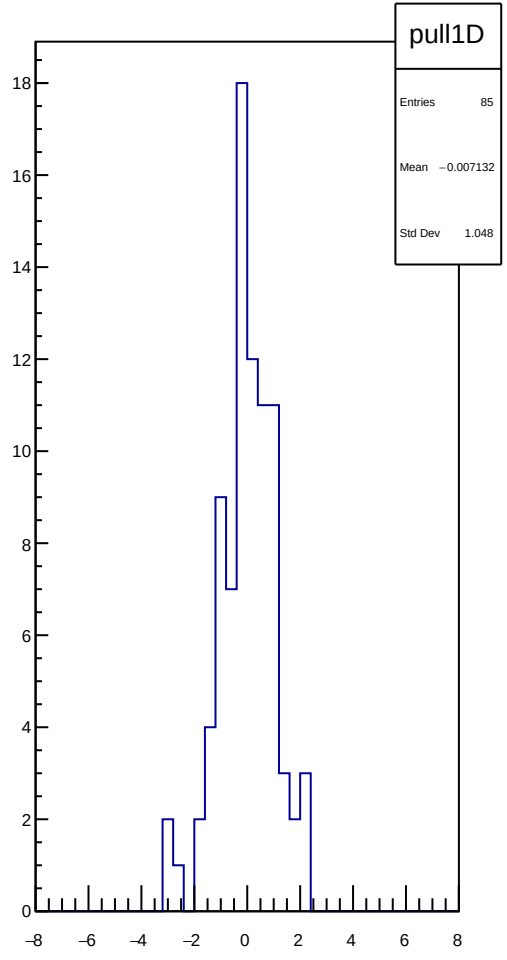

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4083 / 84
p0 880 ± 0.6865
980
960
940
920
900
880
860
840
820
800

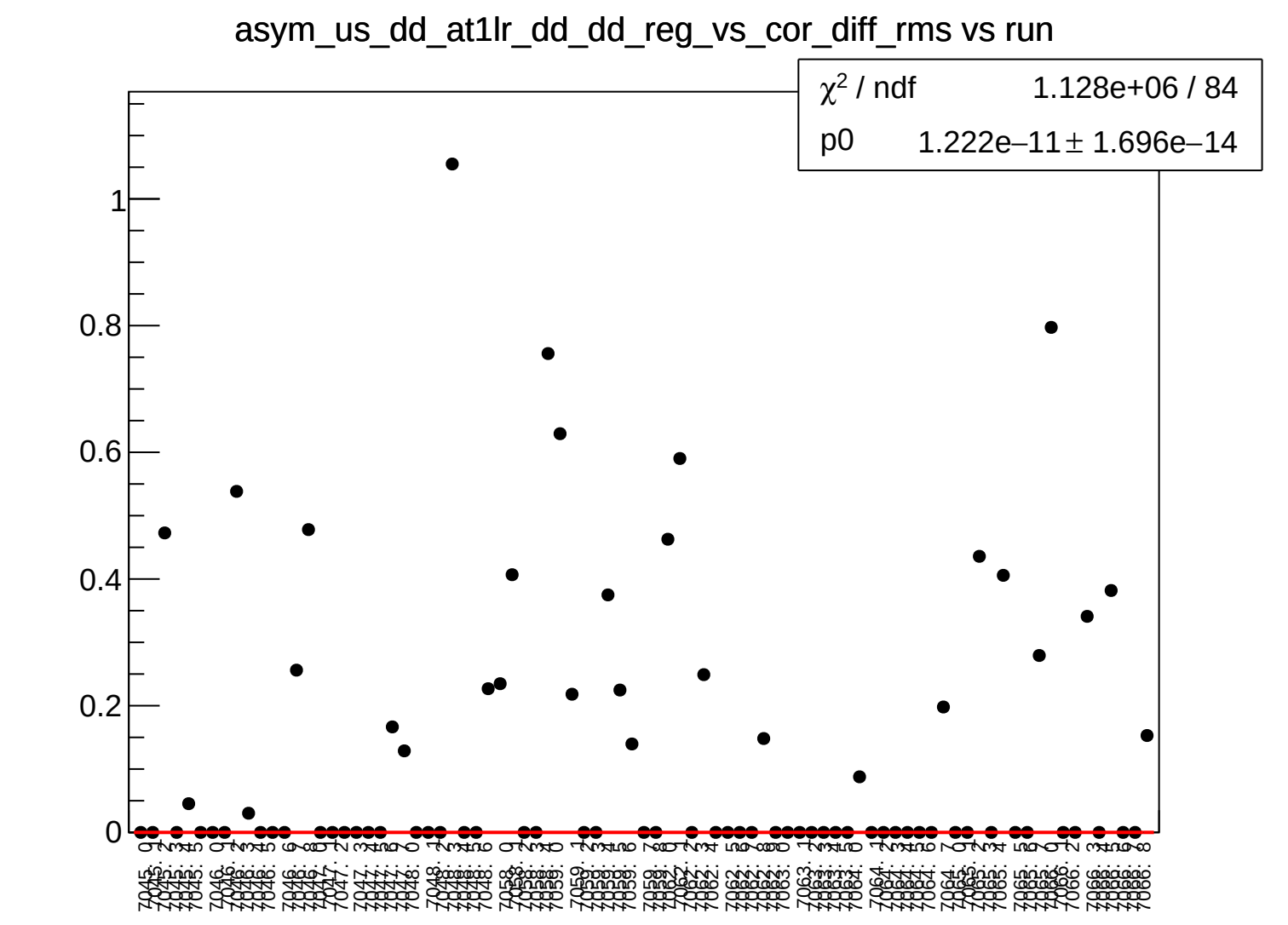

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.29 / 84
p0 638.5 ± 2135
pull
Entries 85
Mean −141.1
Std Dev 0

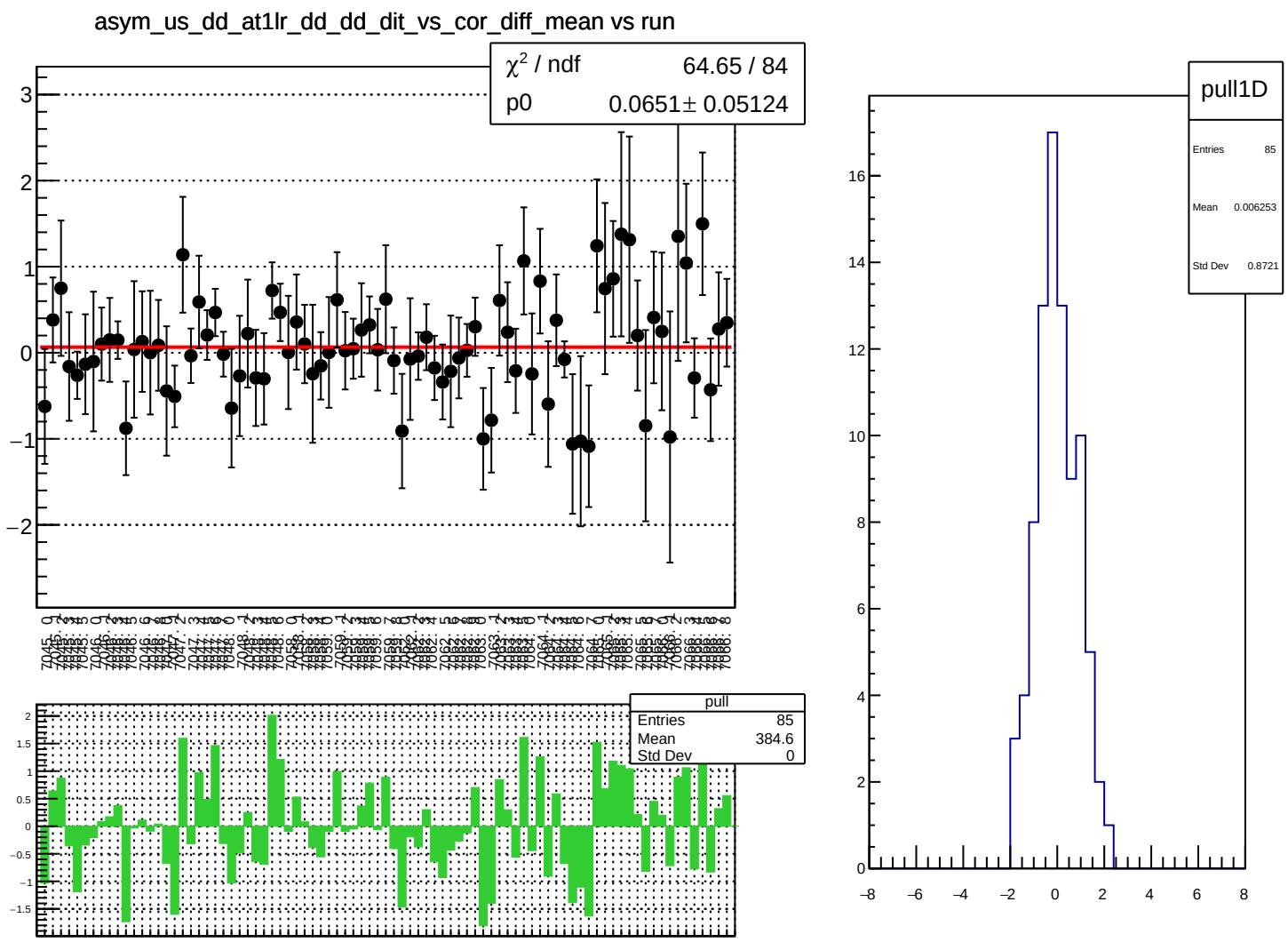

pull1D
Entries 85
Mean −0.004628
Std Dev 1.042

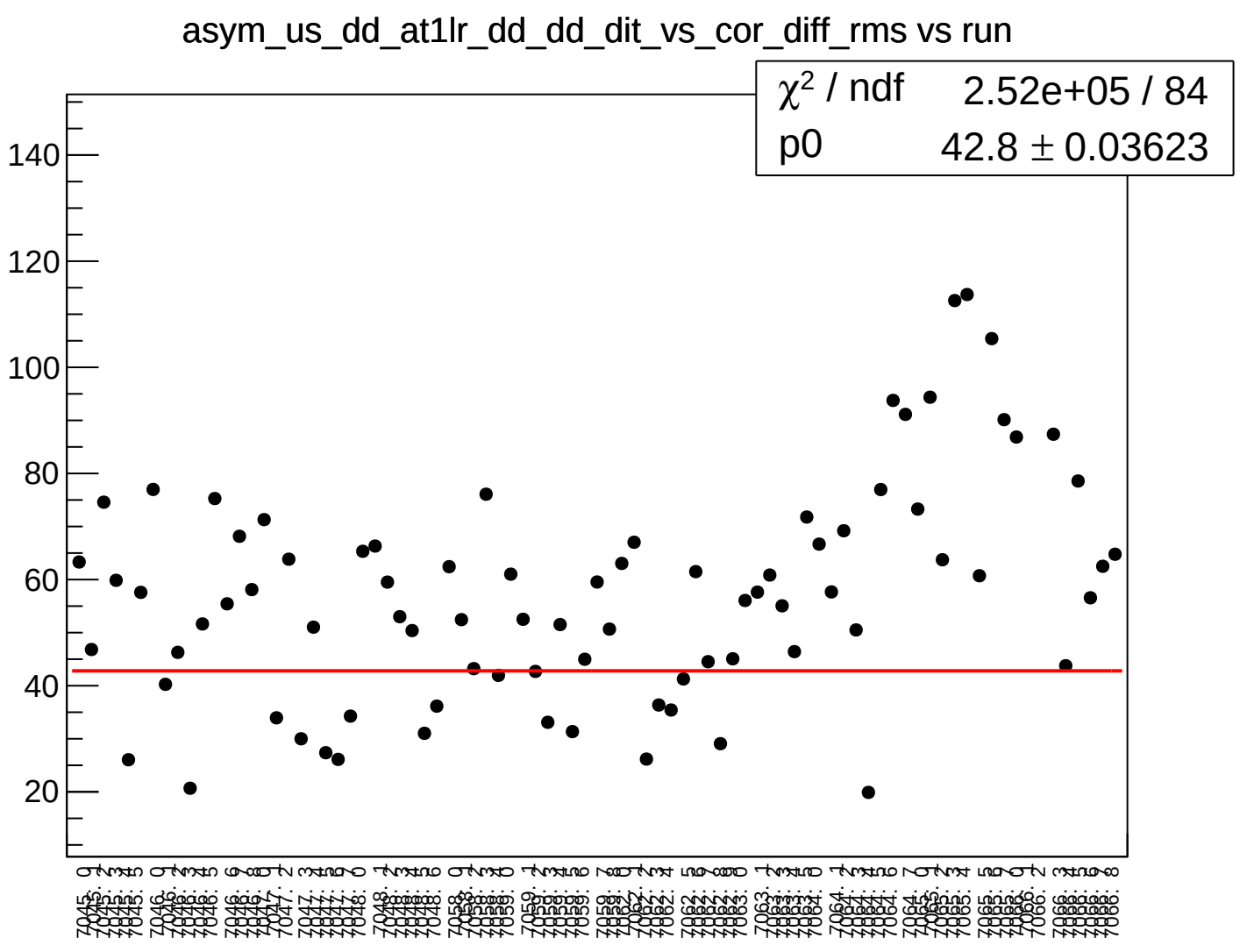

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 285 / 84
p0 1937 ± 1.509
2020
2000
1980
1960
1940
1920
1900
1880
1860

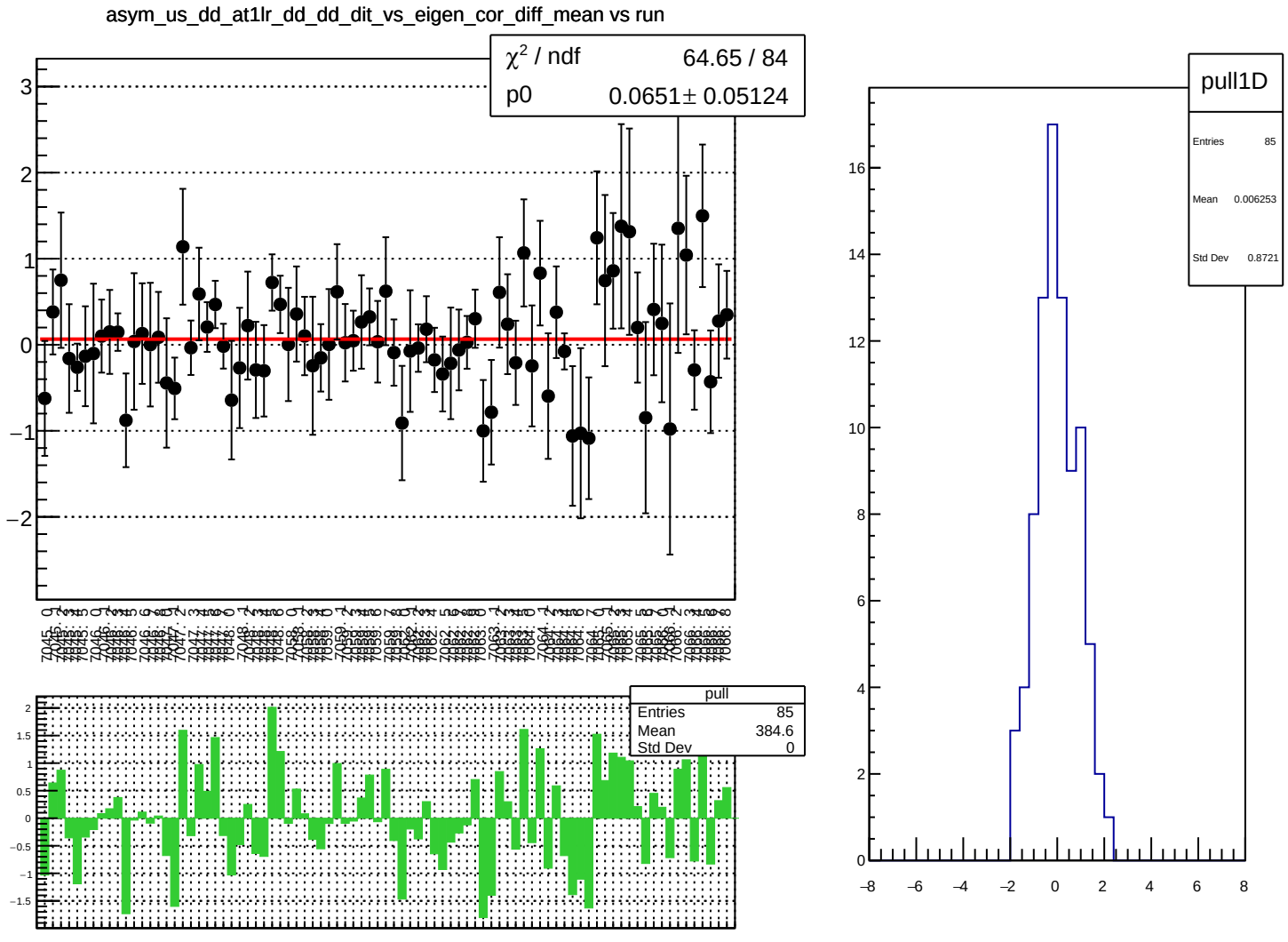

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.28 / 84
p0 −1.142e−14 ± 2.399e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 206.1
Std Dev 0
2
1
0
−1
−2
−3

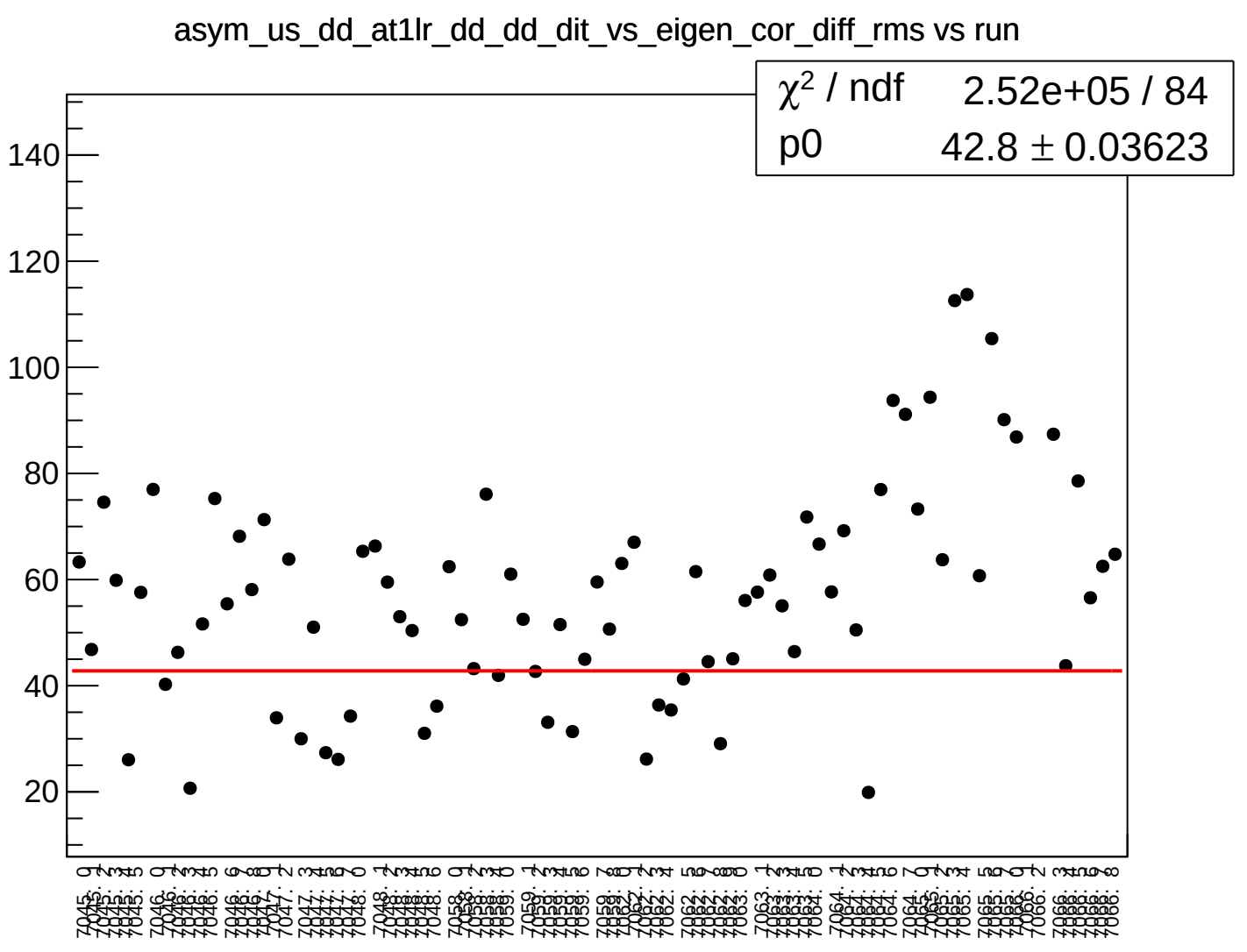

pull1D
Entries 85
Mean −0.007132
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

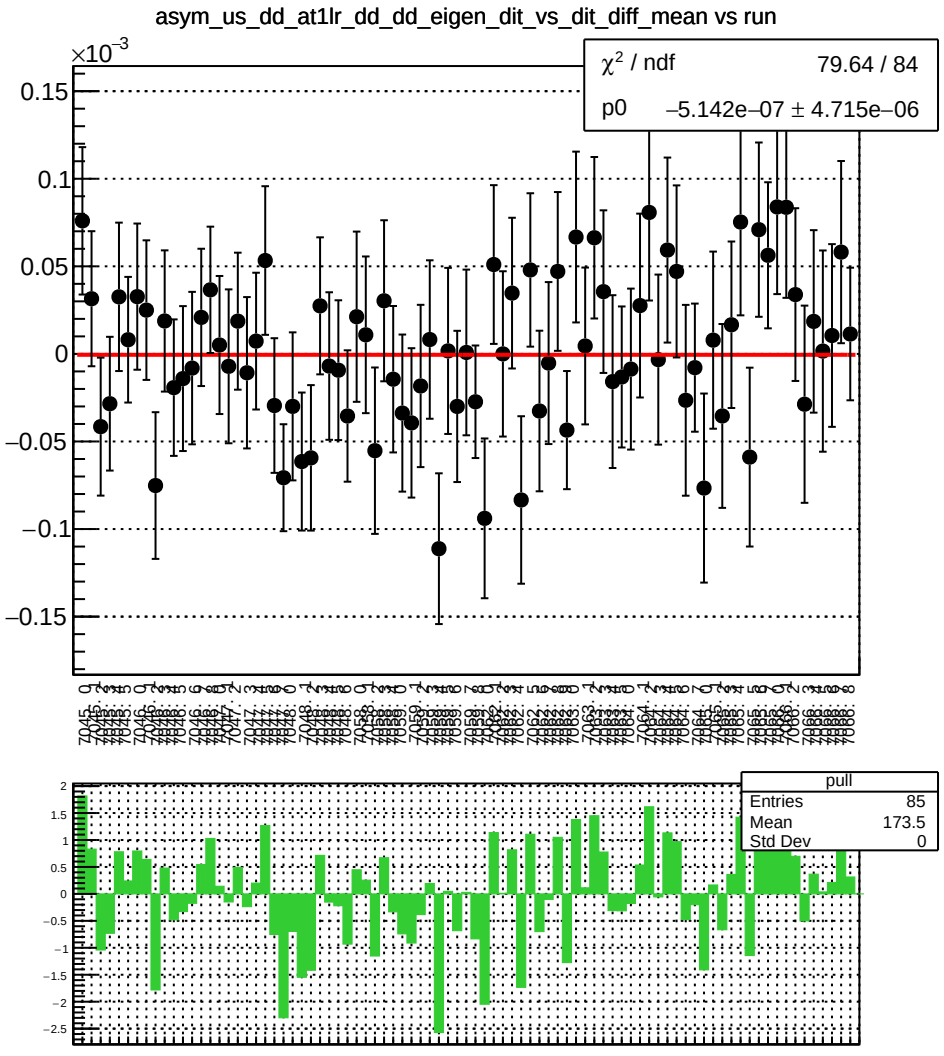

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 84
p0 1.222e−11 ± 1.696e−14
1
0.8
0.6
0.4
0.2
0

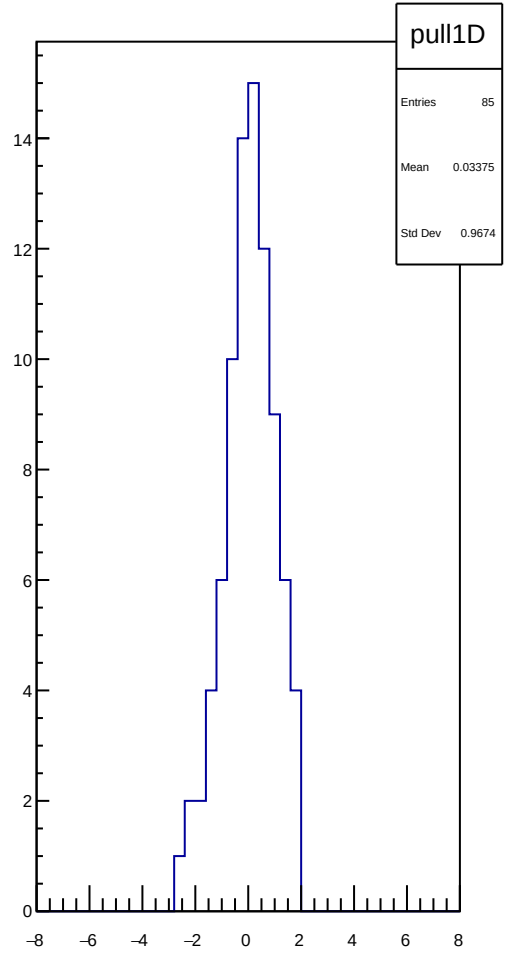

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.65 / 84
p0 0.0651± 0.05124
pull
Entries 85
Mean 384.6
Std Dev 0
pull1D
Entries 85
Mean 0.006253
Std Dev 0.8721

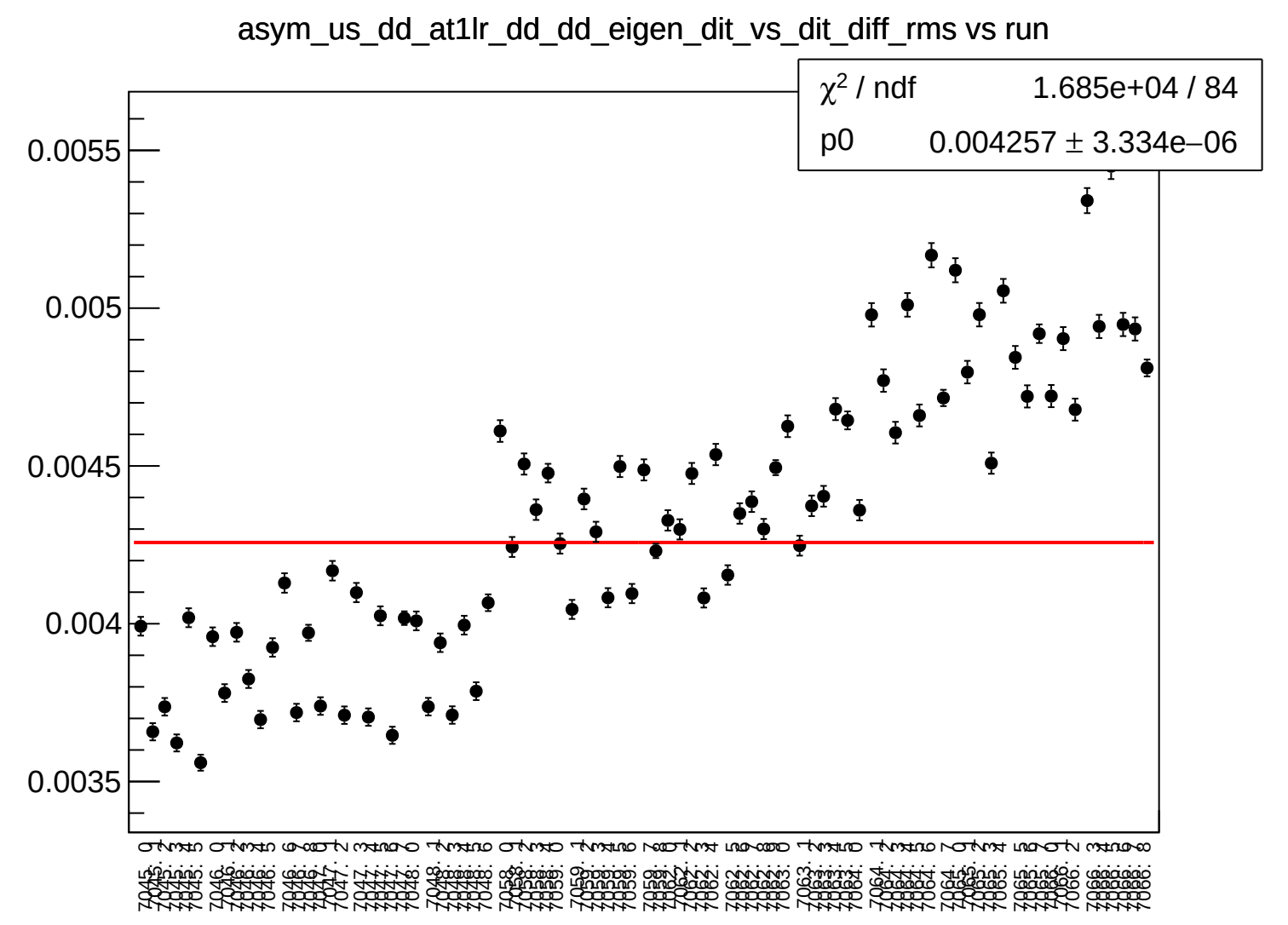

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.52e+05 / 84
p0 42.8 ± 0.03623
140
120
100
80
60
40
20

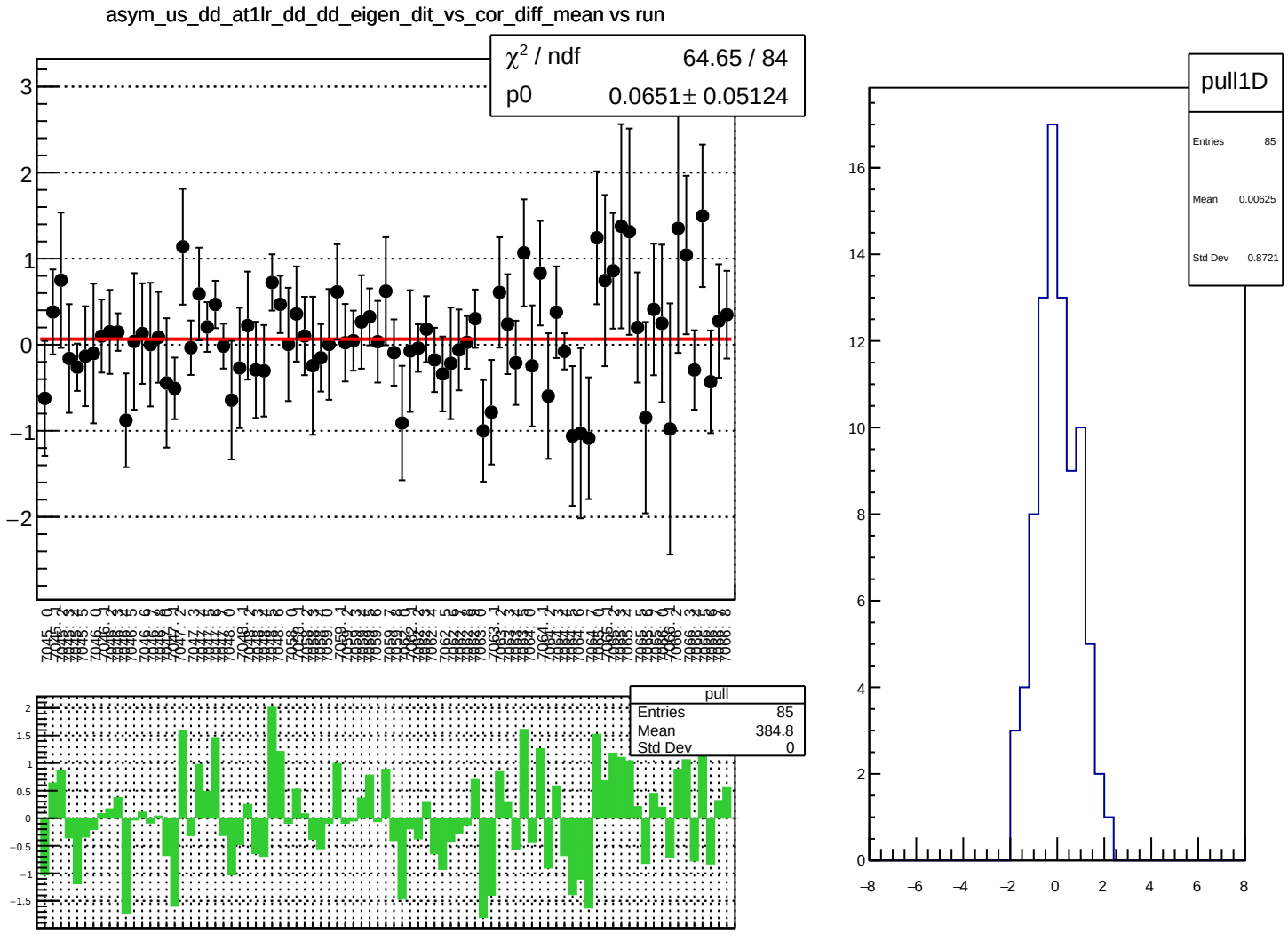

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.65 / 84
p0 0.0651± 0.05124
pull
Entries 85
Mean 384.6
Std Dev 0
pull1D
Entries 85
Mean 0.006253
Std Dev 0.8721

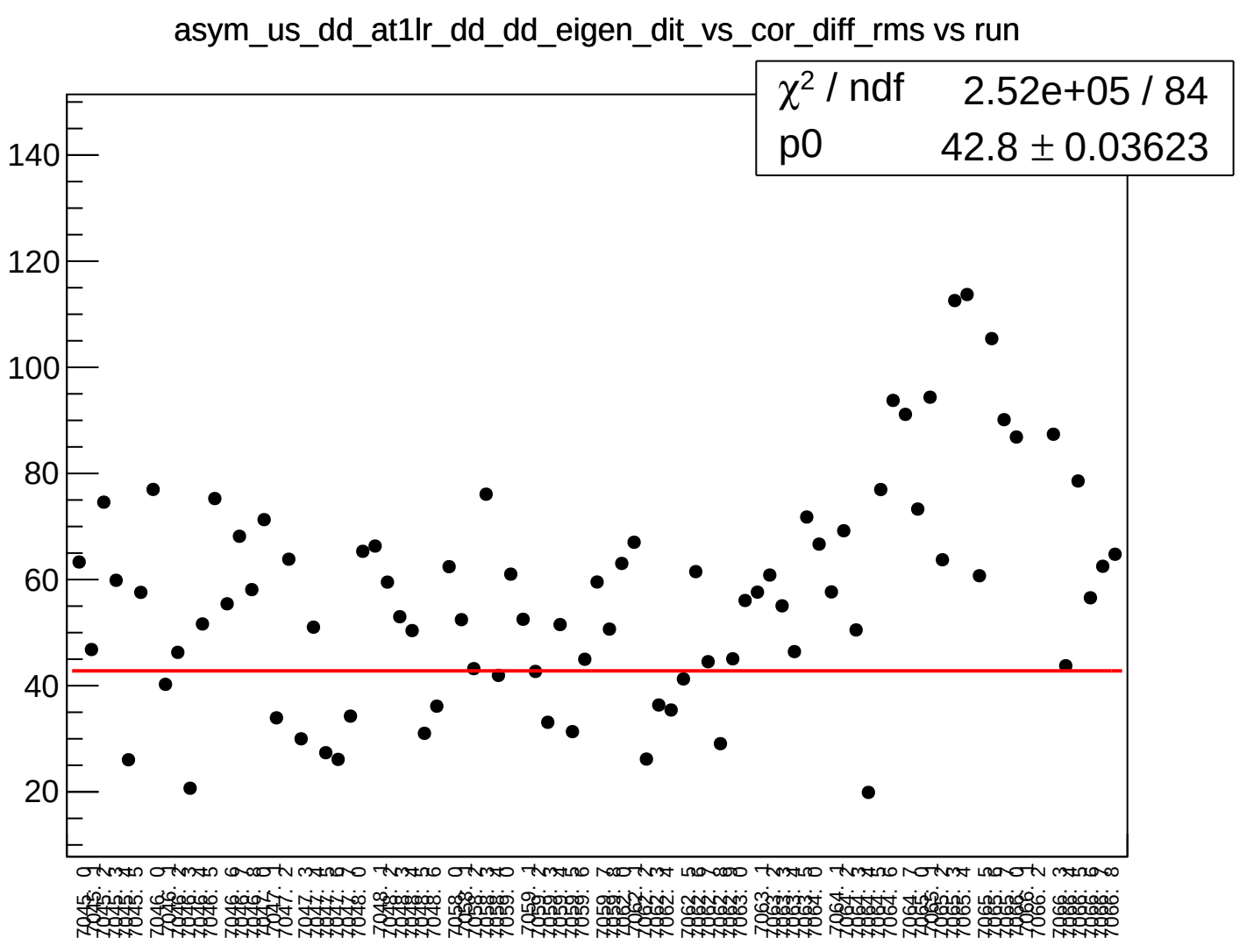

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.52e+05 / 84
p0 42.8 ± 0.03623
140
120
100
80
60
40
20

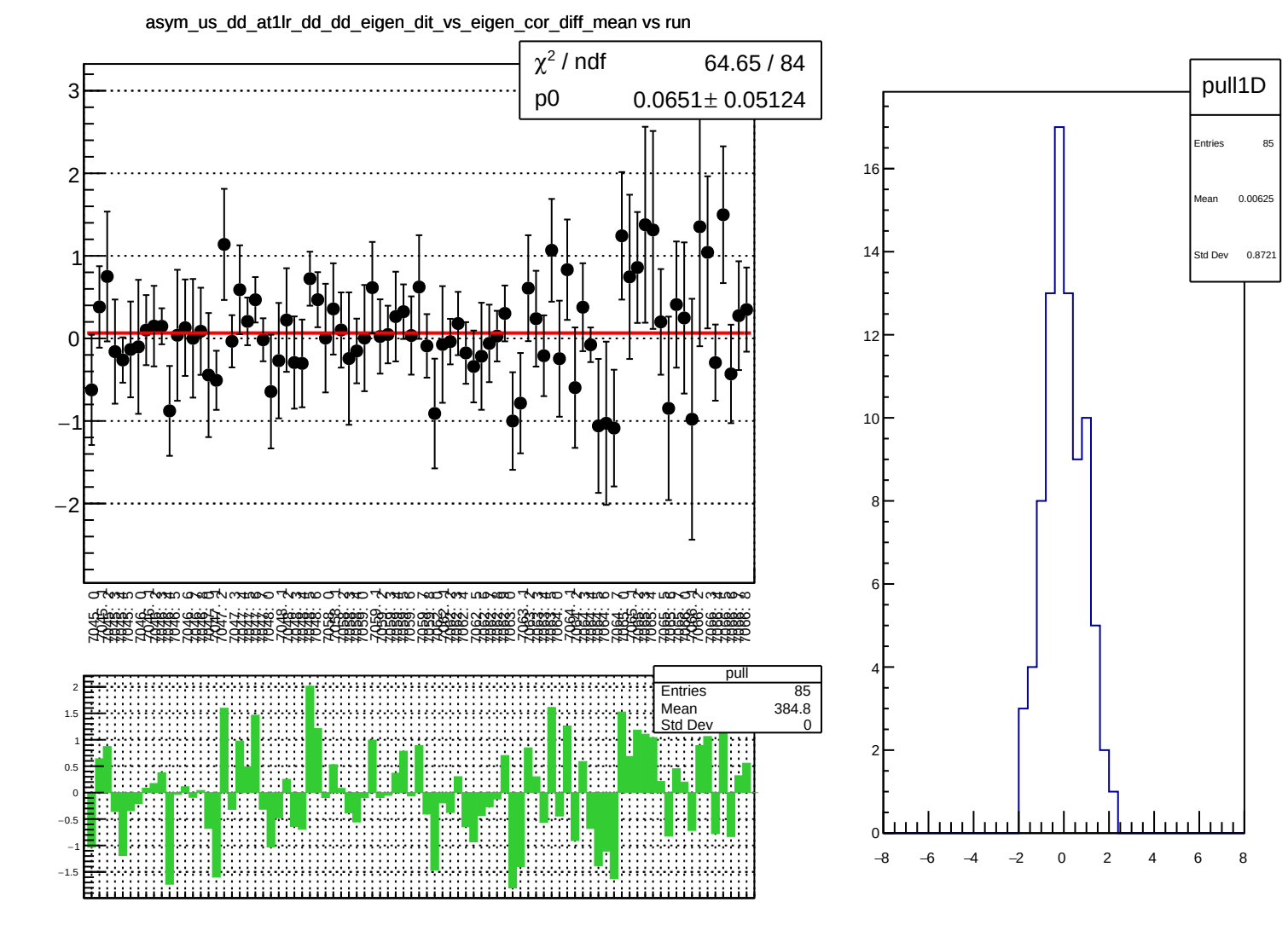

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.64 / 84
p0 −5.142e−07 ± 4.715e−06
pull
Entries 85
Mean 173.5
Std Dev 0

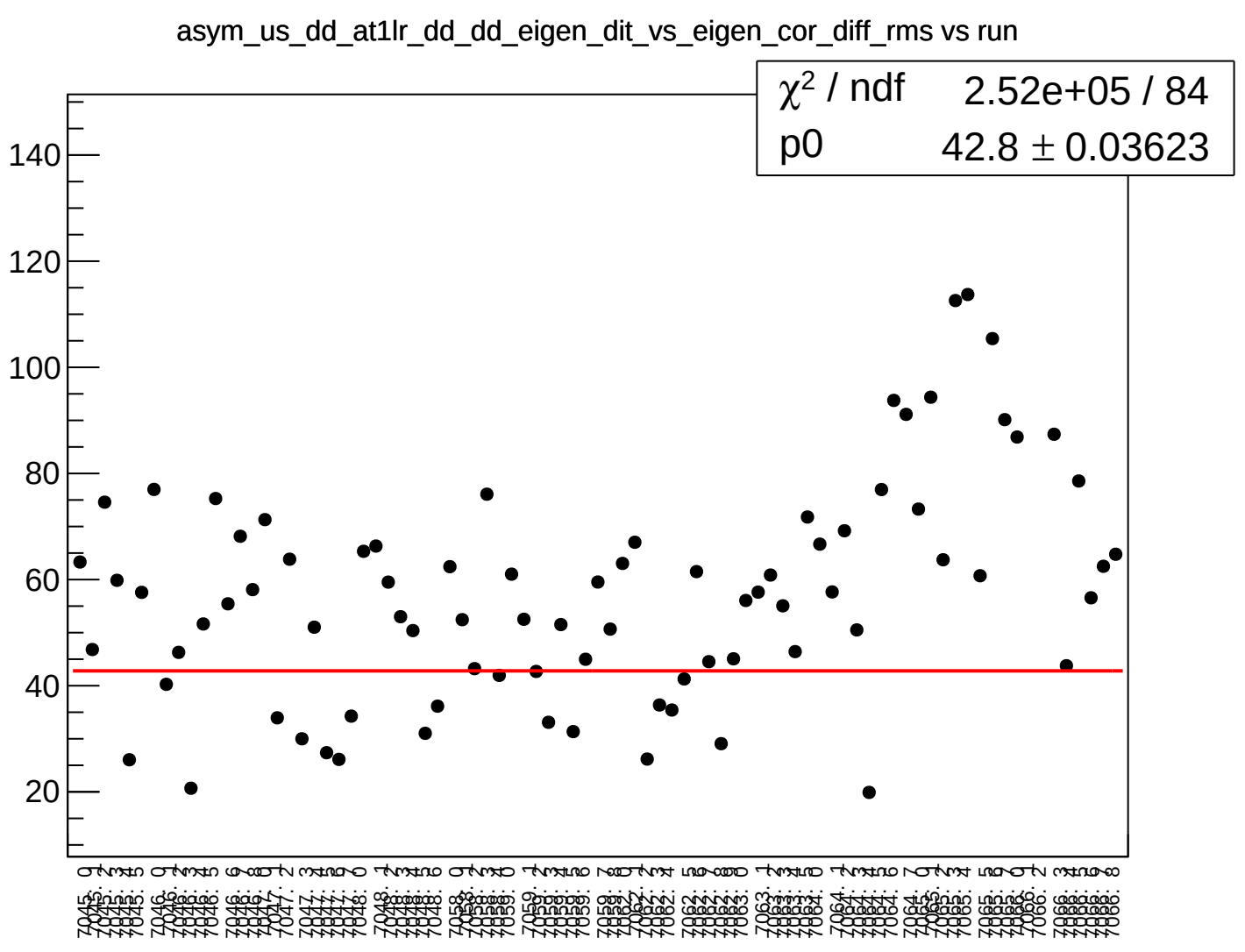

pull1D
Entries 85
Mean 0.03375
Std Dev 0.9674

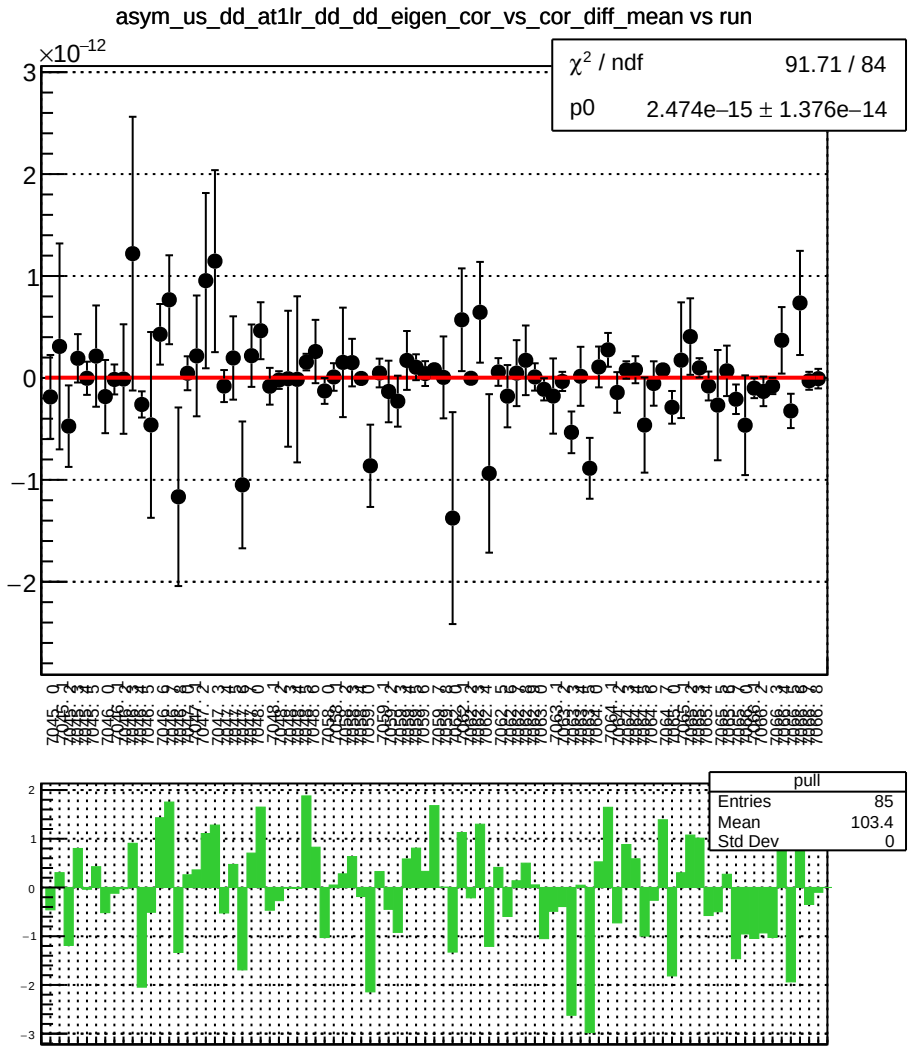

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.685e+04 / 84
p0 0.004257 ± 3.334e−06
0.0055
0.005
0.0045
0.004
0.0035

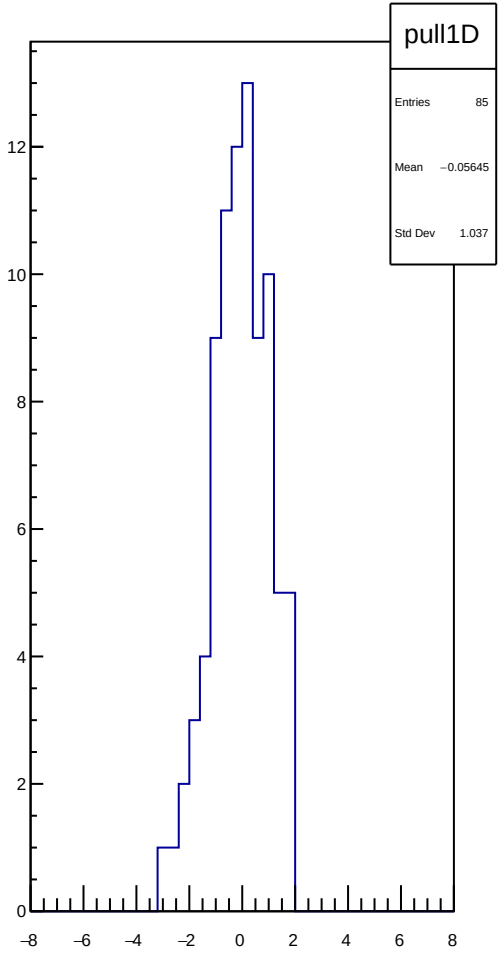

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.65 / 84
p0 0.0651± 0.05124
pull
Entries 85
Mean 384.8
Std Dev 0
pull1D
Entries 85
Mean 0.00625
Std Dev 0.8721

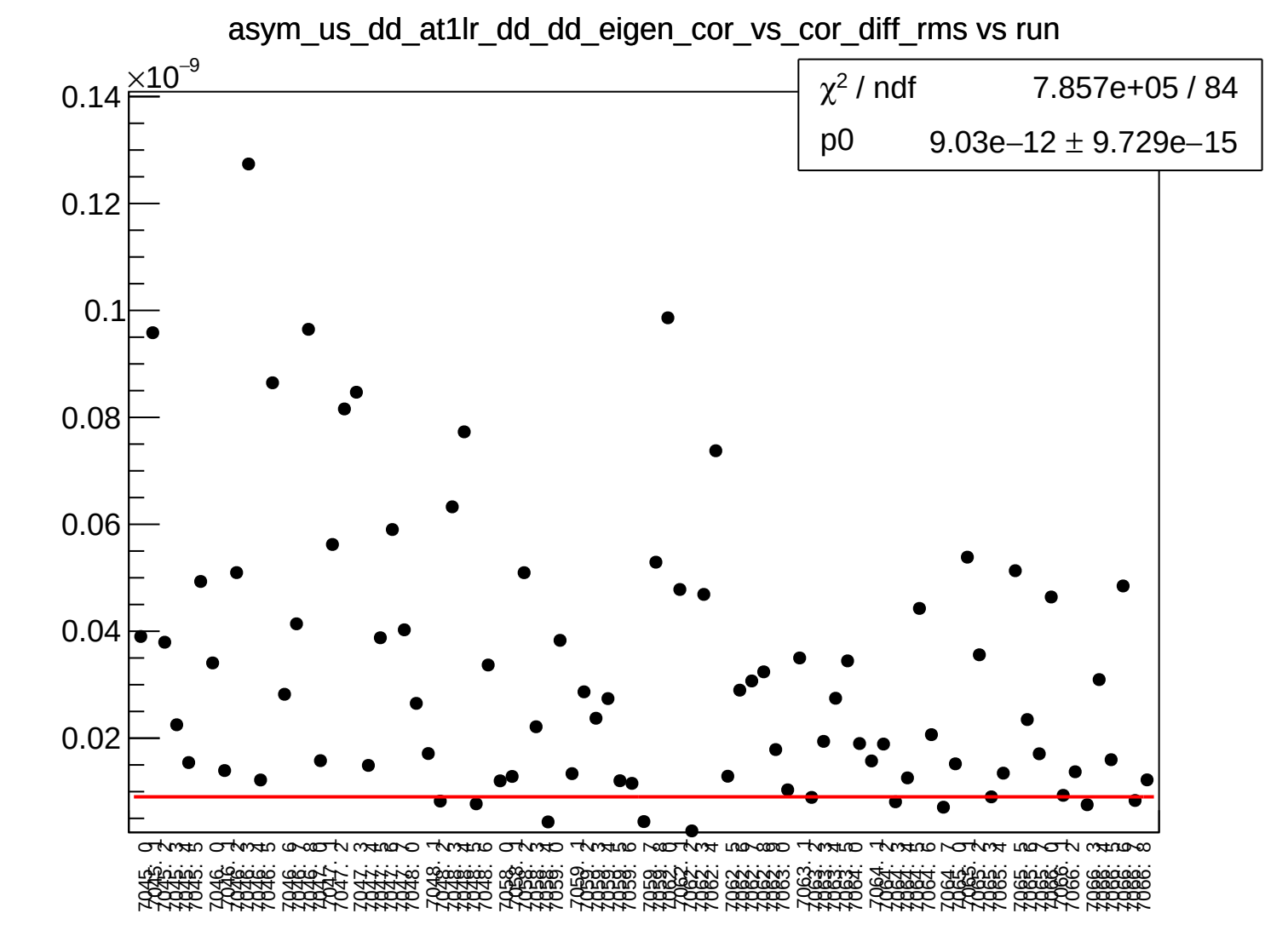

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.52e+05 / 84
p0 42.8 ± 0.03623
140
120
100
80
60
40
20

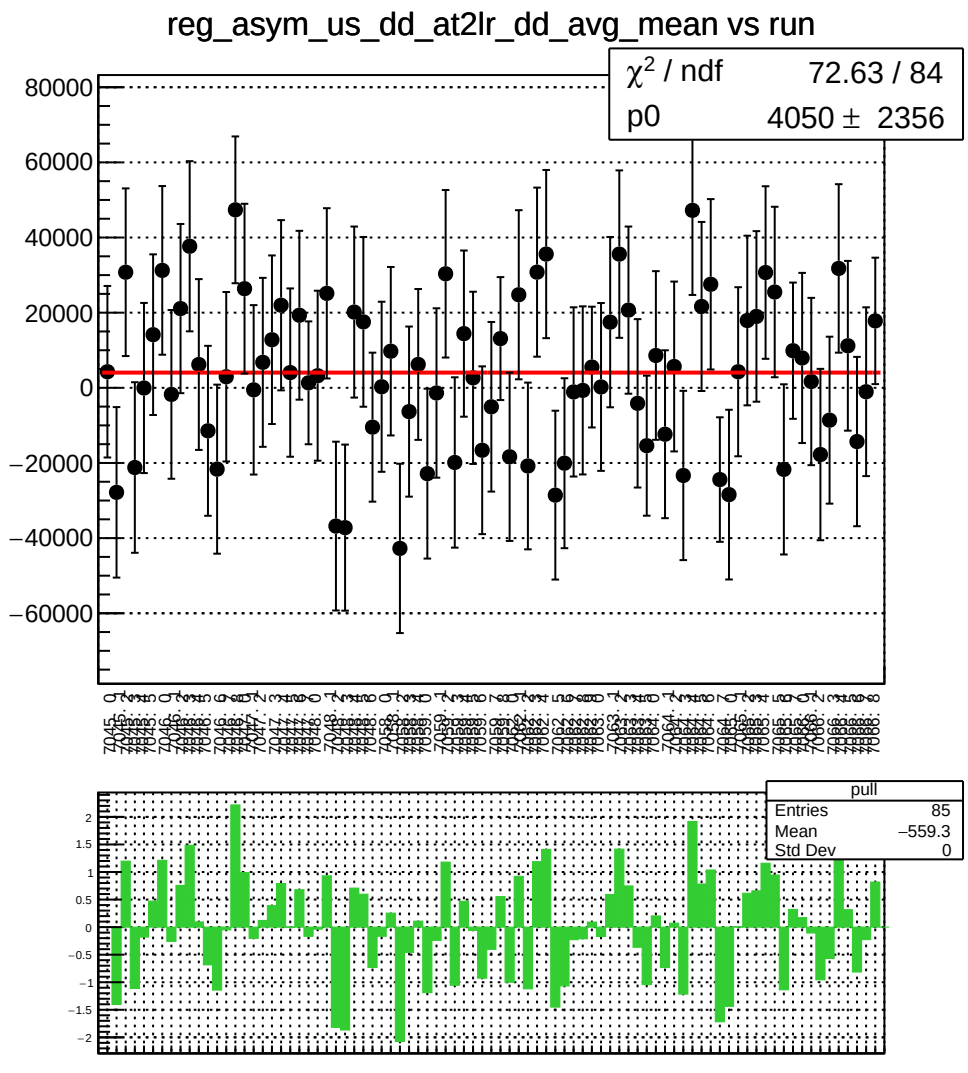

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.65 / 84
p0 0.0651± 0.05124
pull
Entries 85
Mean 384.8
Std Dev 0
pull1D
Entries 85
Mean 0.00625
Std Dev 0.8721

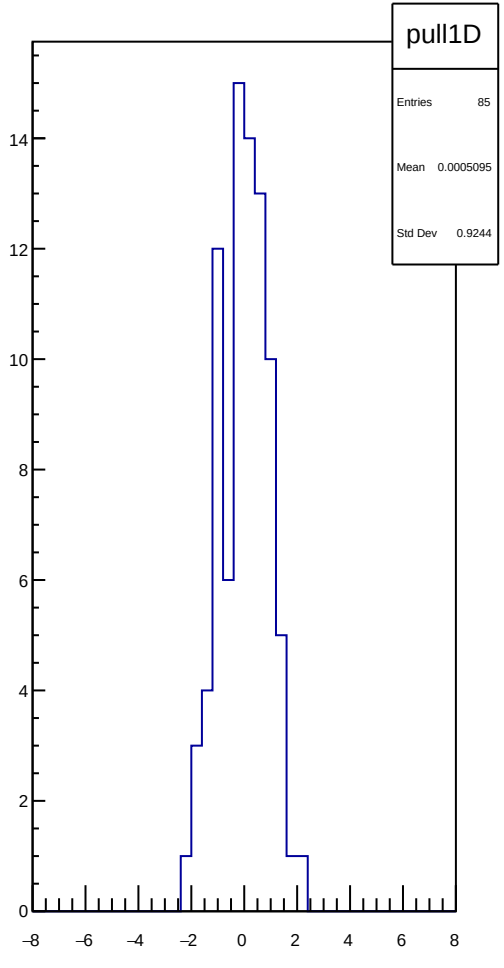

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.52e+05 / 84
p0 42.8 ± 0.03623
140
120
100
80
60
40
20

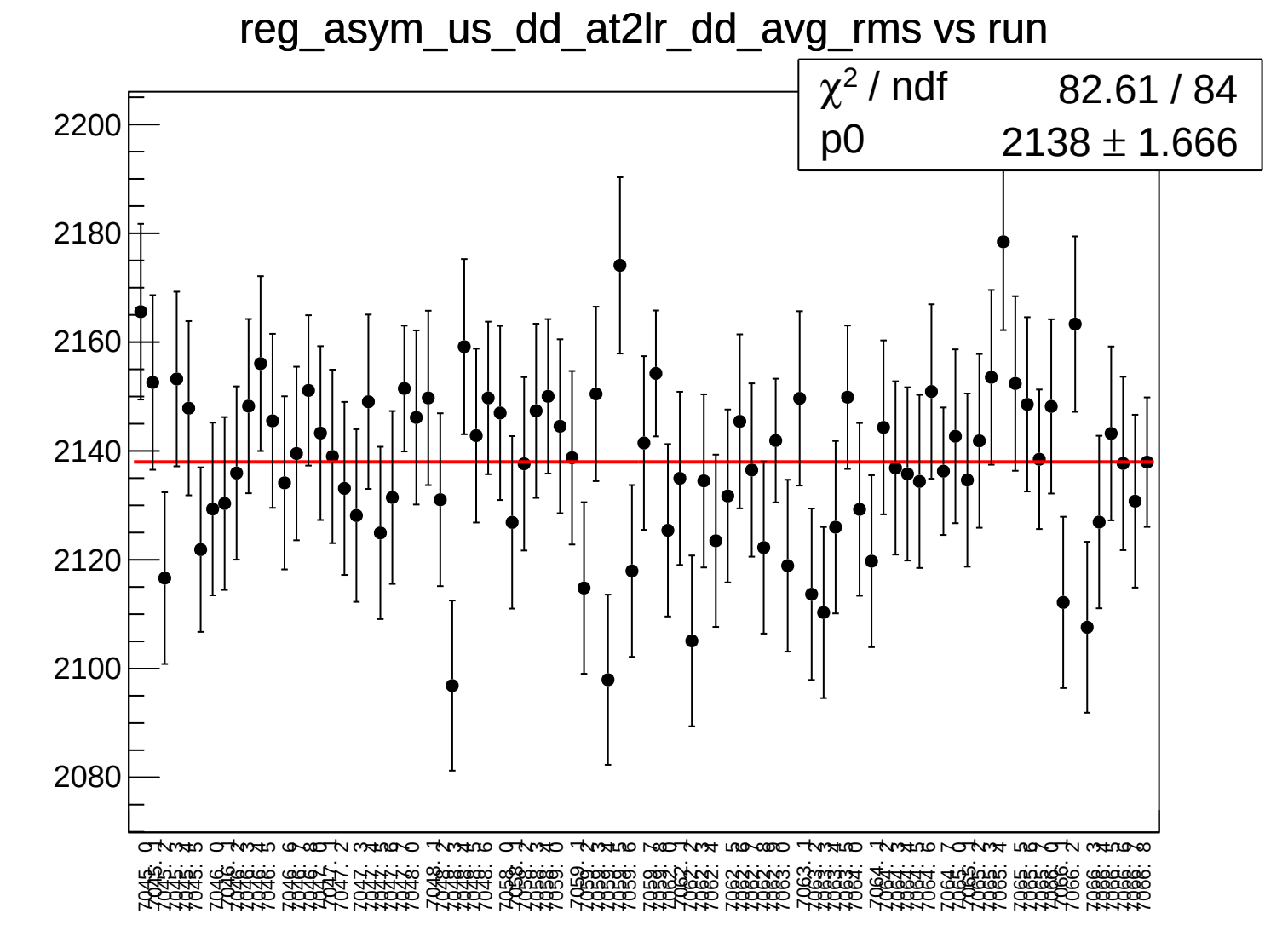

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.71 / 84
p0 2.474e−15 ± 1.376e−14
pull
Entries 85
Mean 103.4
Std Dev 0

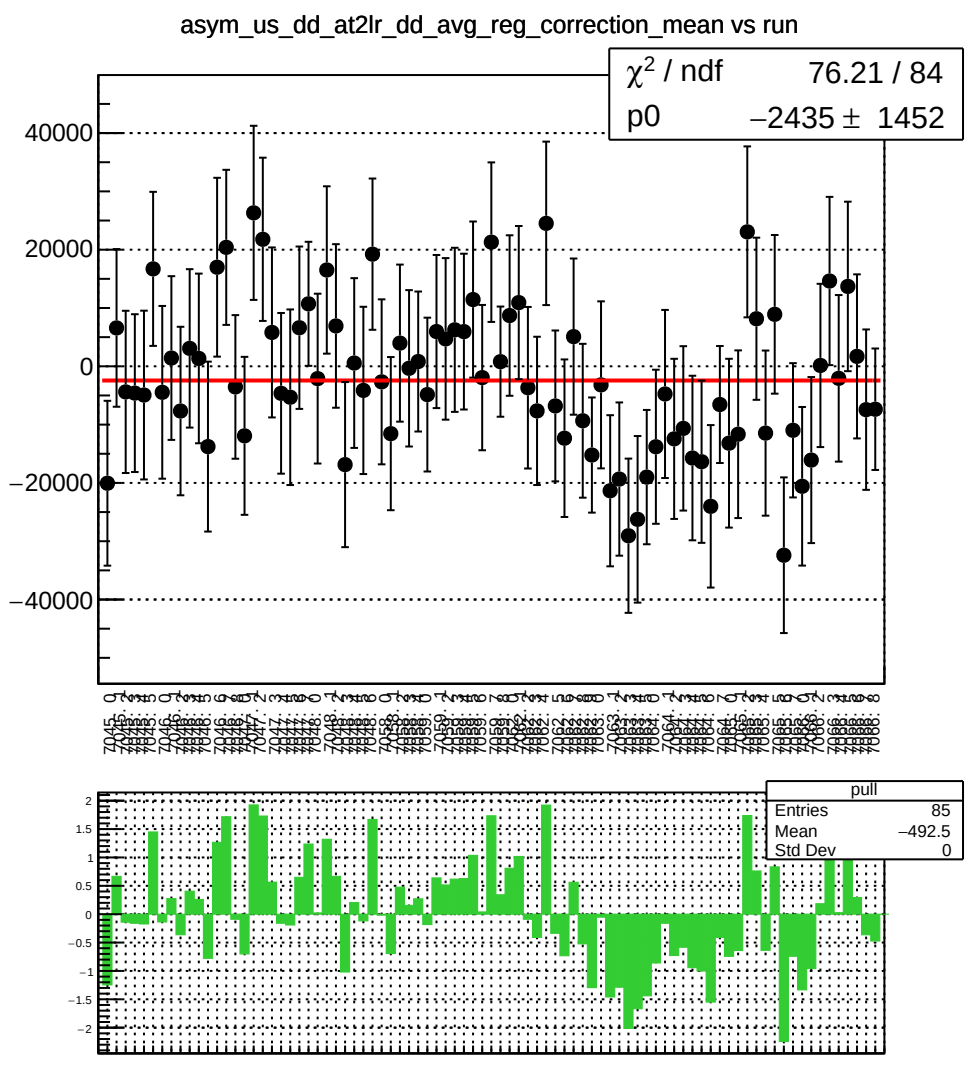

pull1D
Entries 85
Mean −0.05645
Std Dev 1.037

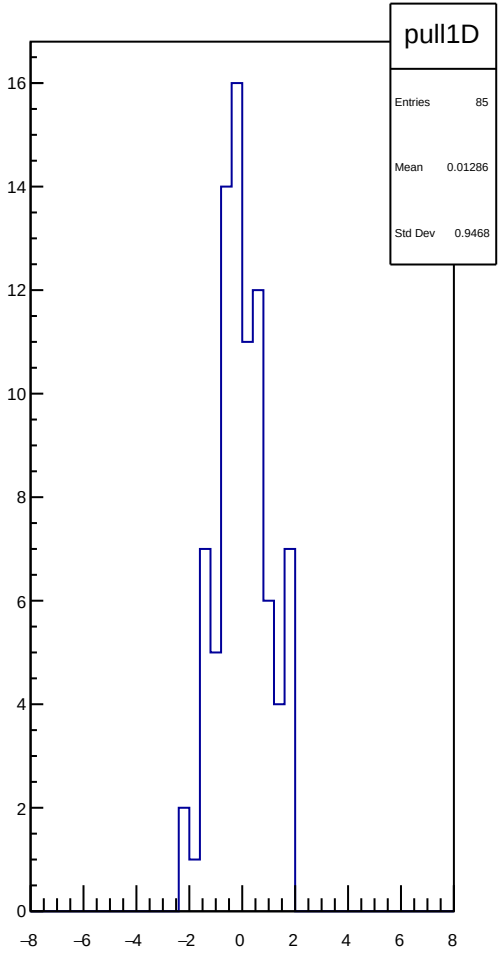

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.857e+05 / 84
p0 9.03e−12 ± 9.729e−15

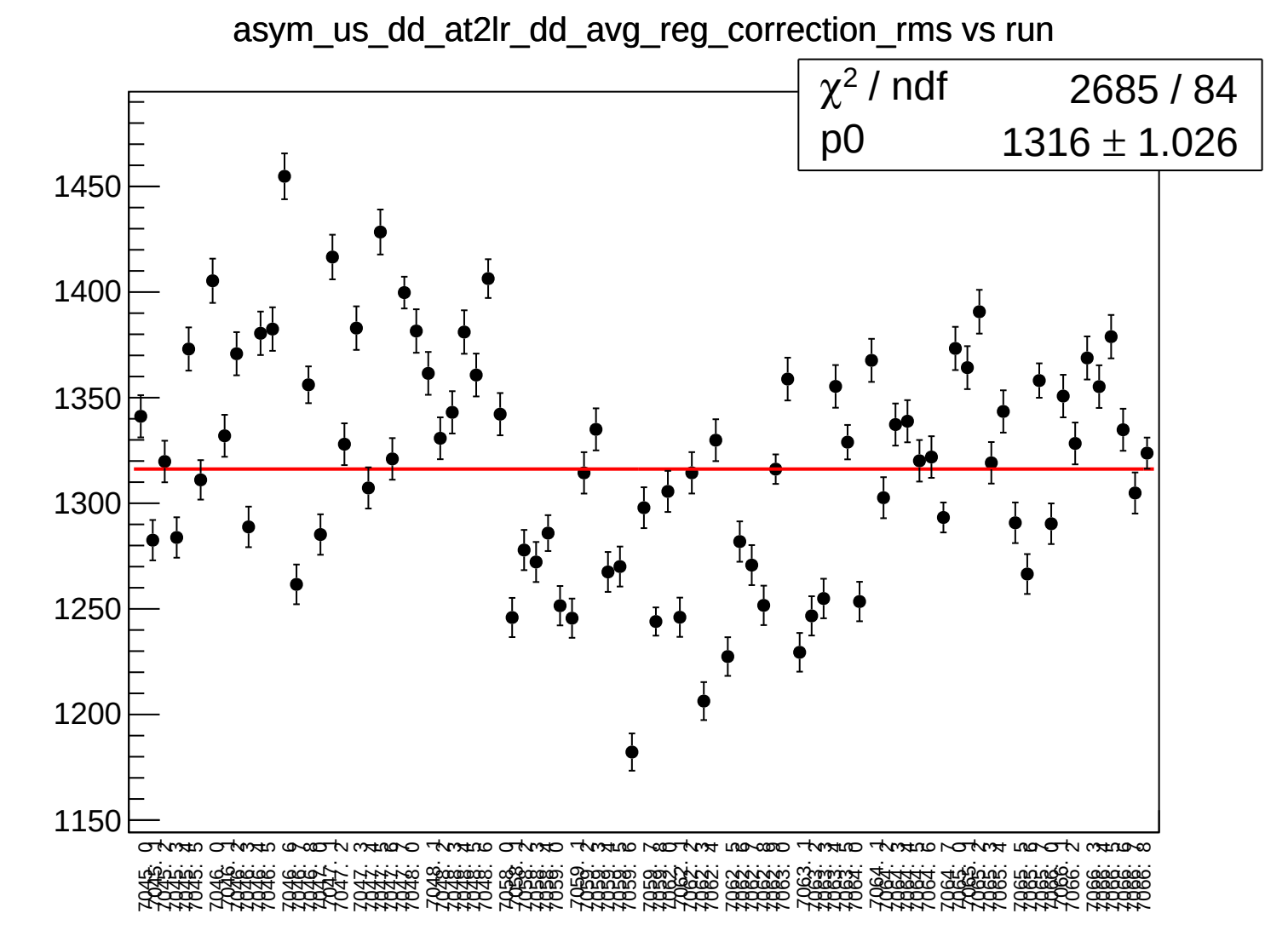

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.63 / 84
p0 4050 ± 2356
pull
Entries 85
Mean −559.3
Std Dev 0

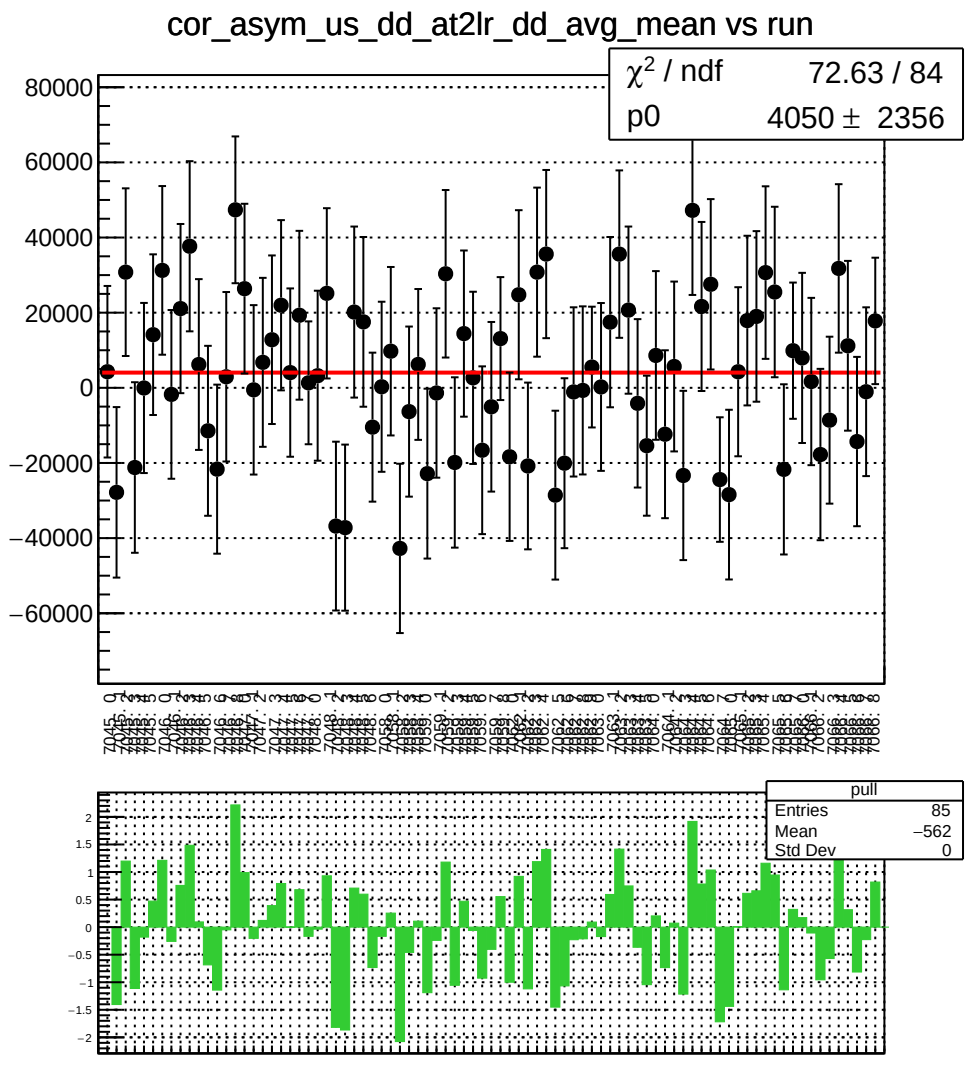

pull1D
Entries 85
Mean 0.0005095
Std Dev 0.9244

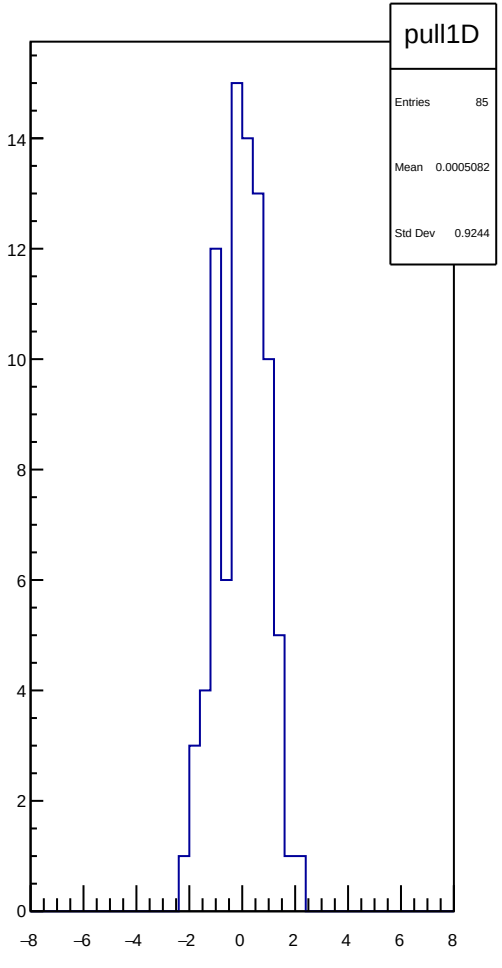

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 82.61 / 84
p0 2138 ± 1.666
2200
2180
2160
2140
2120
2100
2080

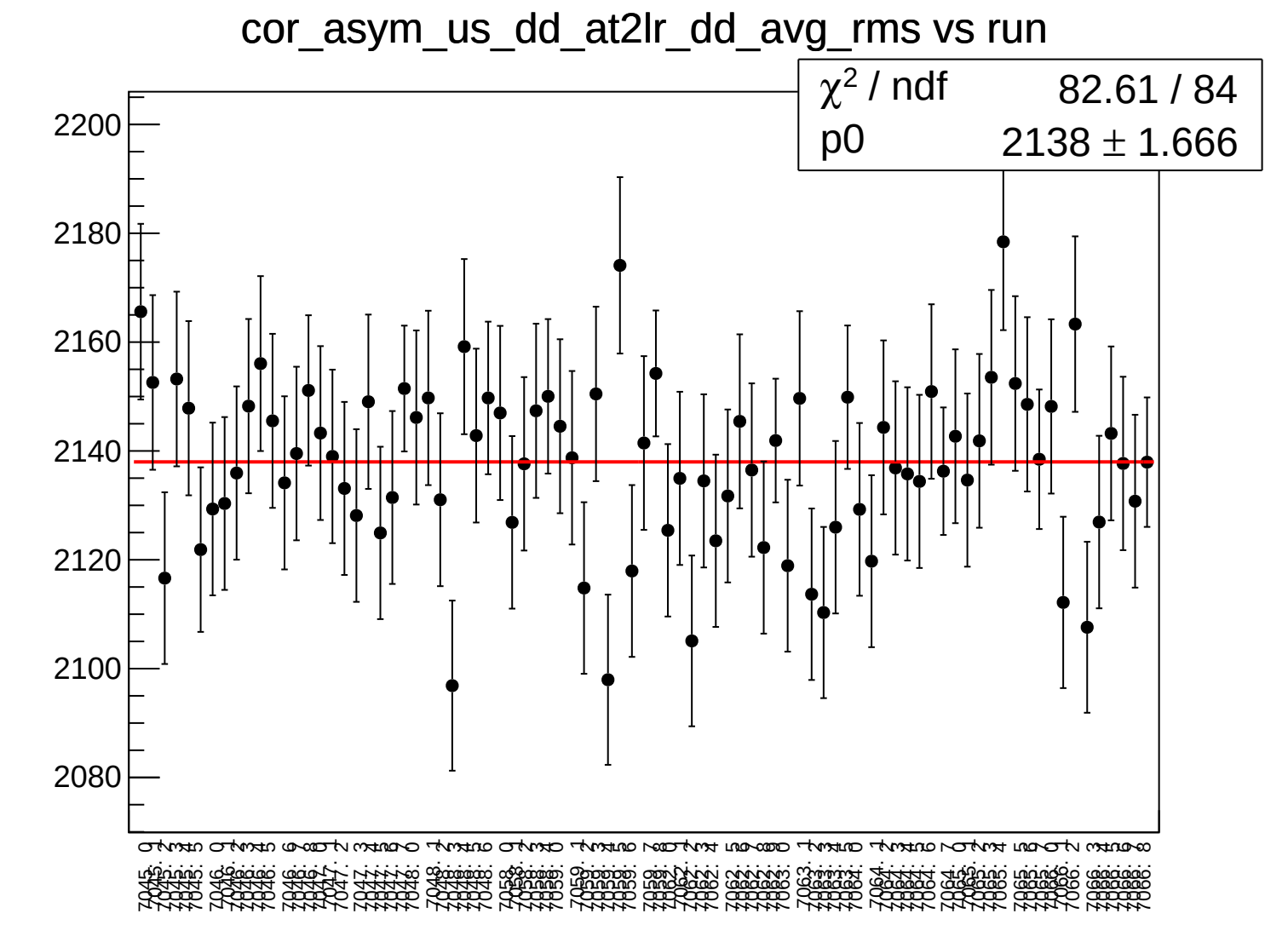

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 76.21 / 84
p0 −2435 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −492.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

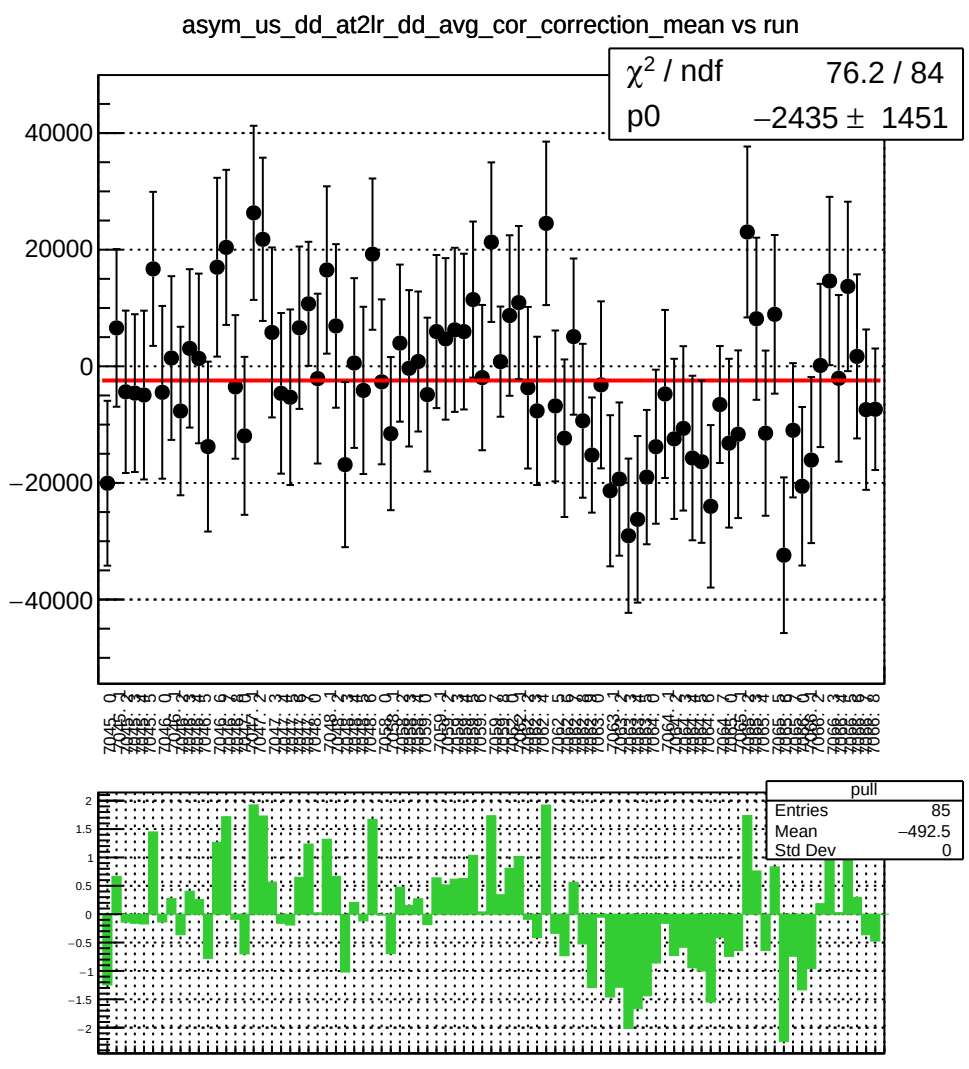

pull1D
Entries 85
Mean 0.01286
Std Dev 0.9468
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

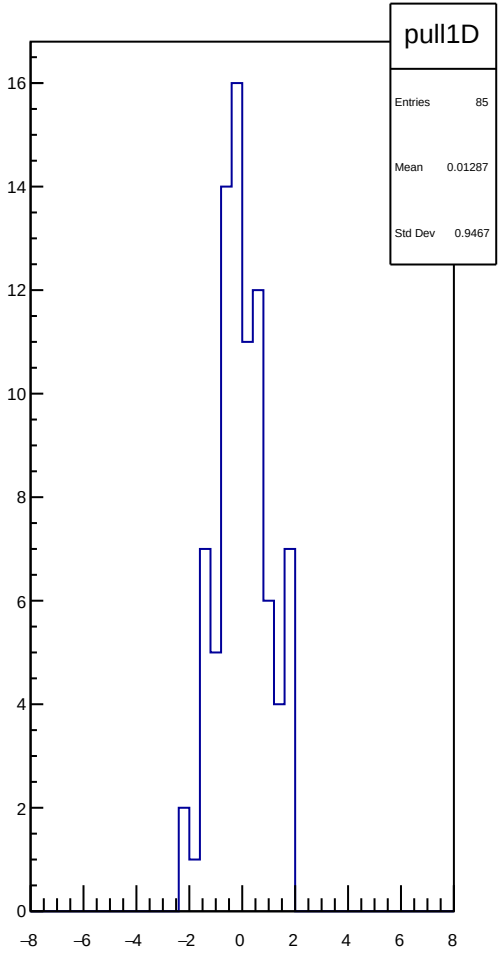

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2685 / 84
p0 1316 ± 1.026
1450
1400
1350
1300
1250
1200
1150

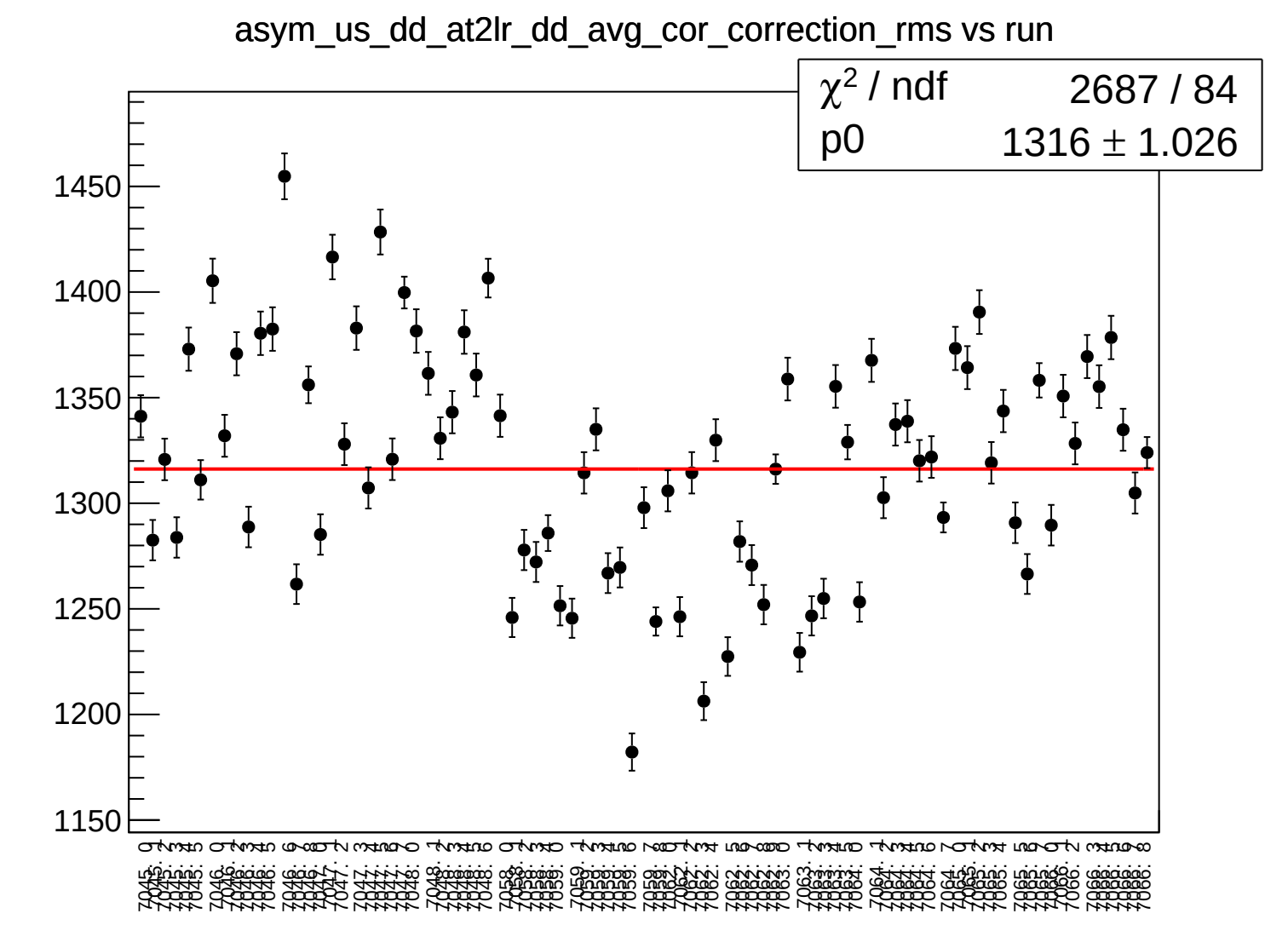

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.63 / 84
p0 4050 ± 2356
pull
Entries 85
Mean −562
Std Dev 0

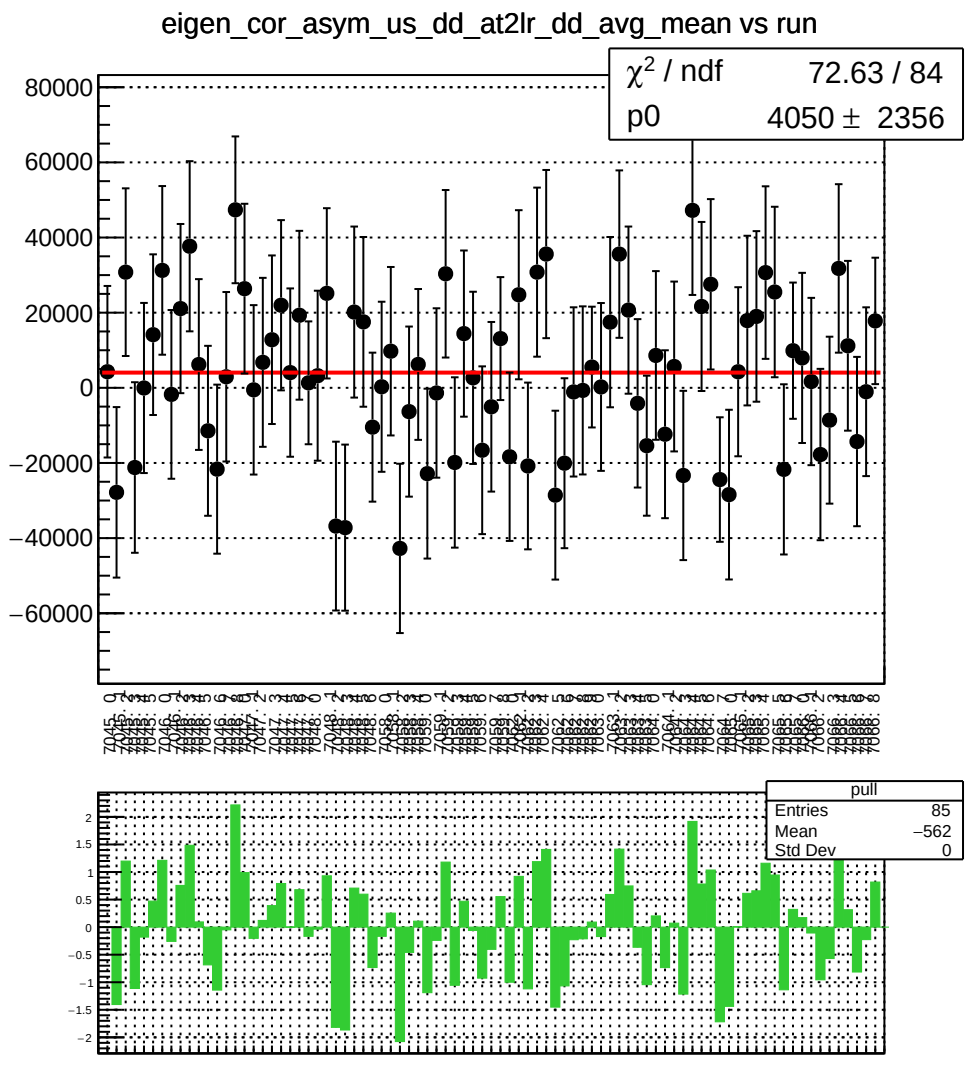

pull1D
Entries 85
Mean 0.0005082
Std Dev 0.9244

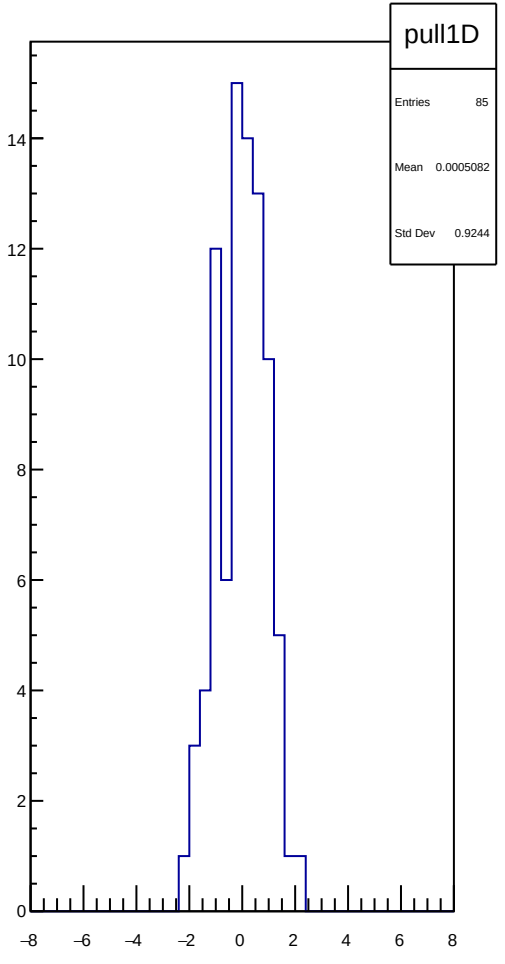

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 82.61 / 84
p0 2138 ± 1.666
2200
2180
2160
2140
2120
2100
2080

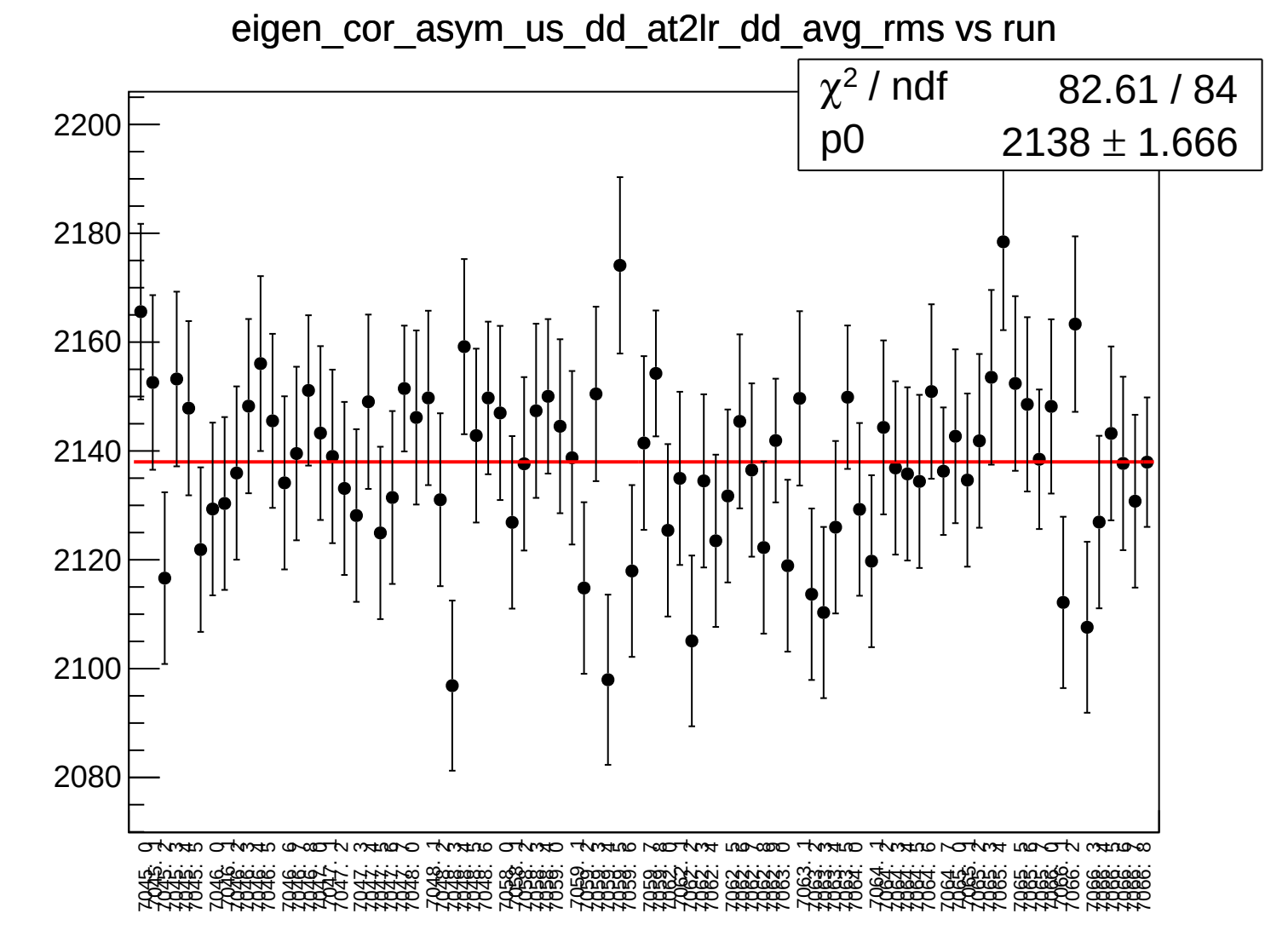

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 76.2 / 84
p0 −2435 ± 1451
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −492.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

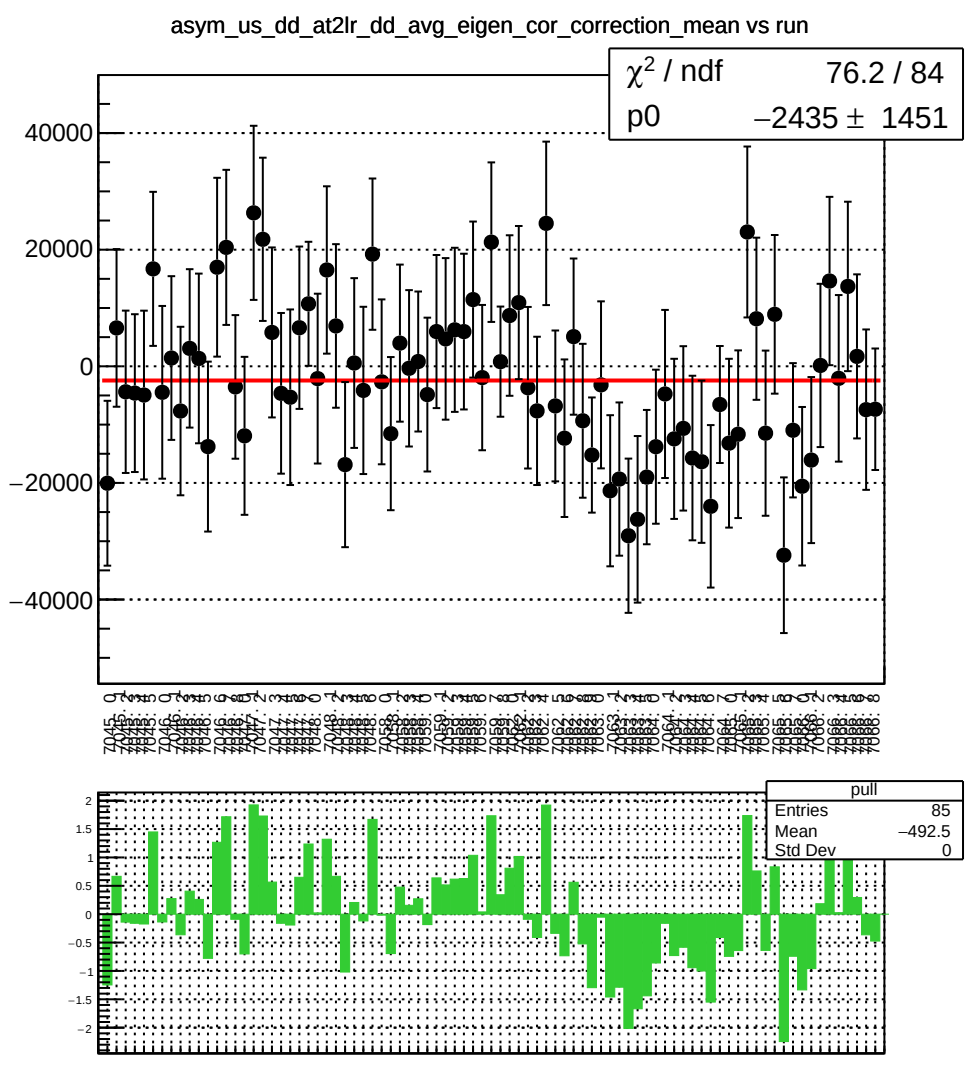

pull1D
Entries 85
Mean 0.01287
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

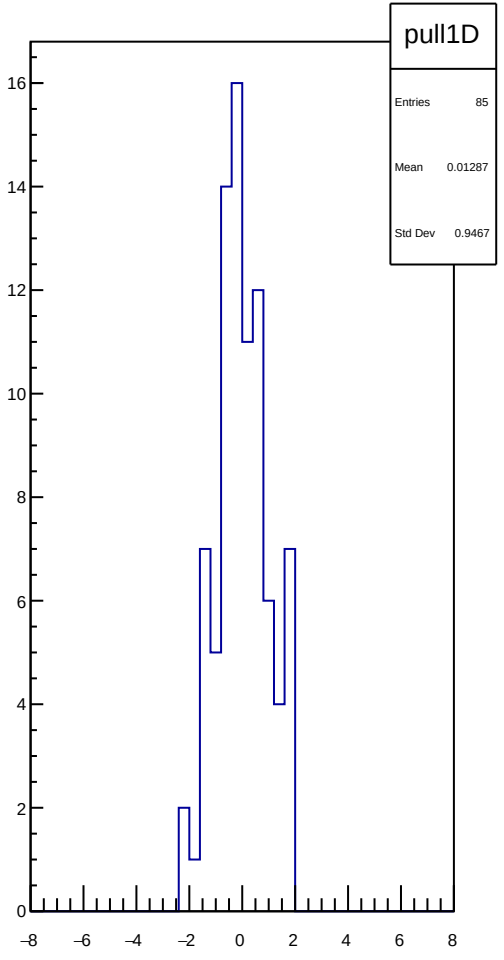

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 2687 / 84
p0 1316 ± 1.026
1450
1400
1350
1300
1250
1200
1150

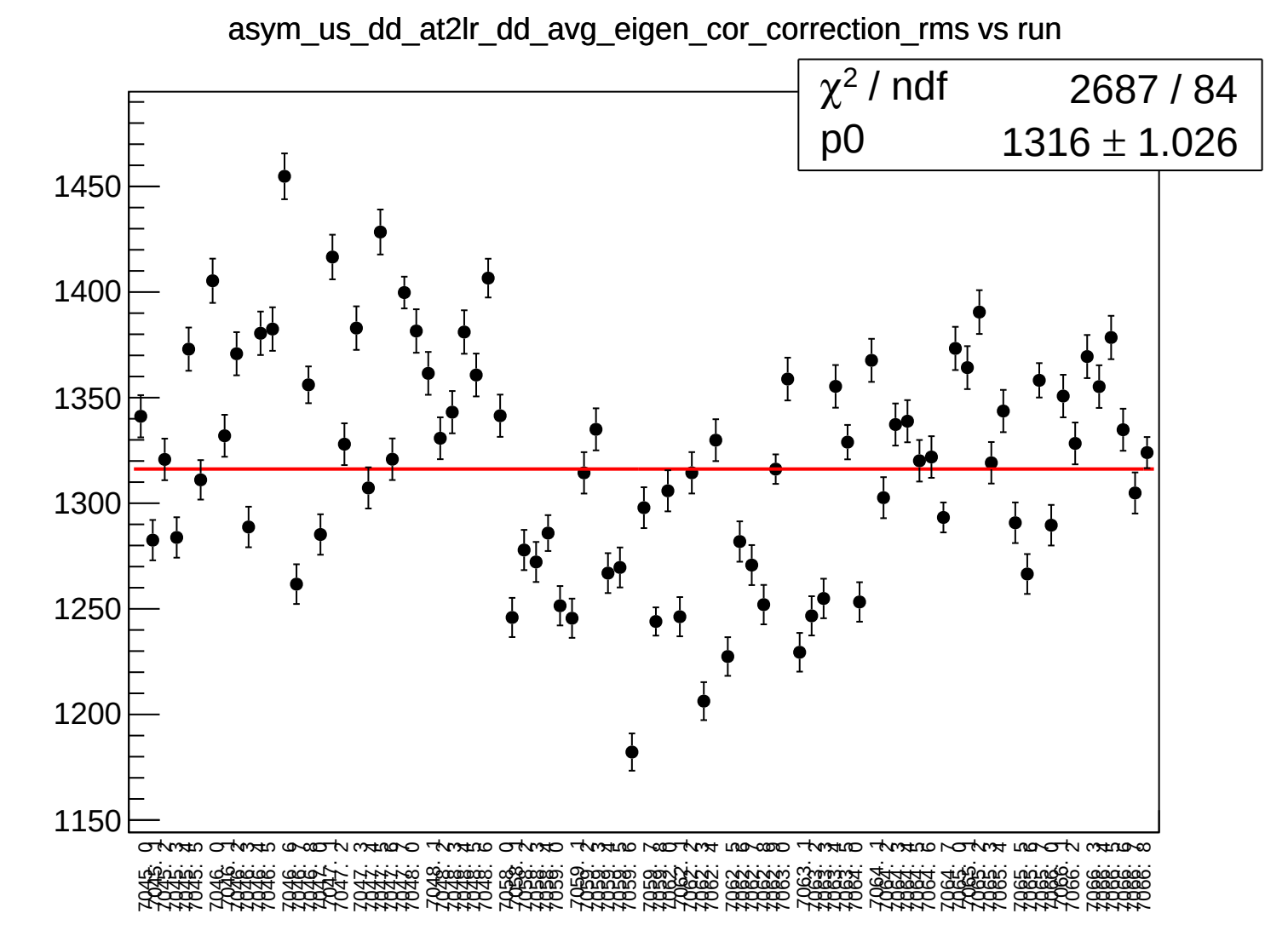

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.63 / 84
p0 4050 ± 2356
pull
Entries 85
Mean −562
Std Dev 0

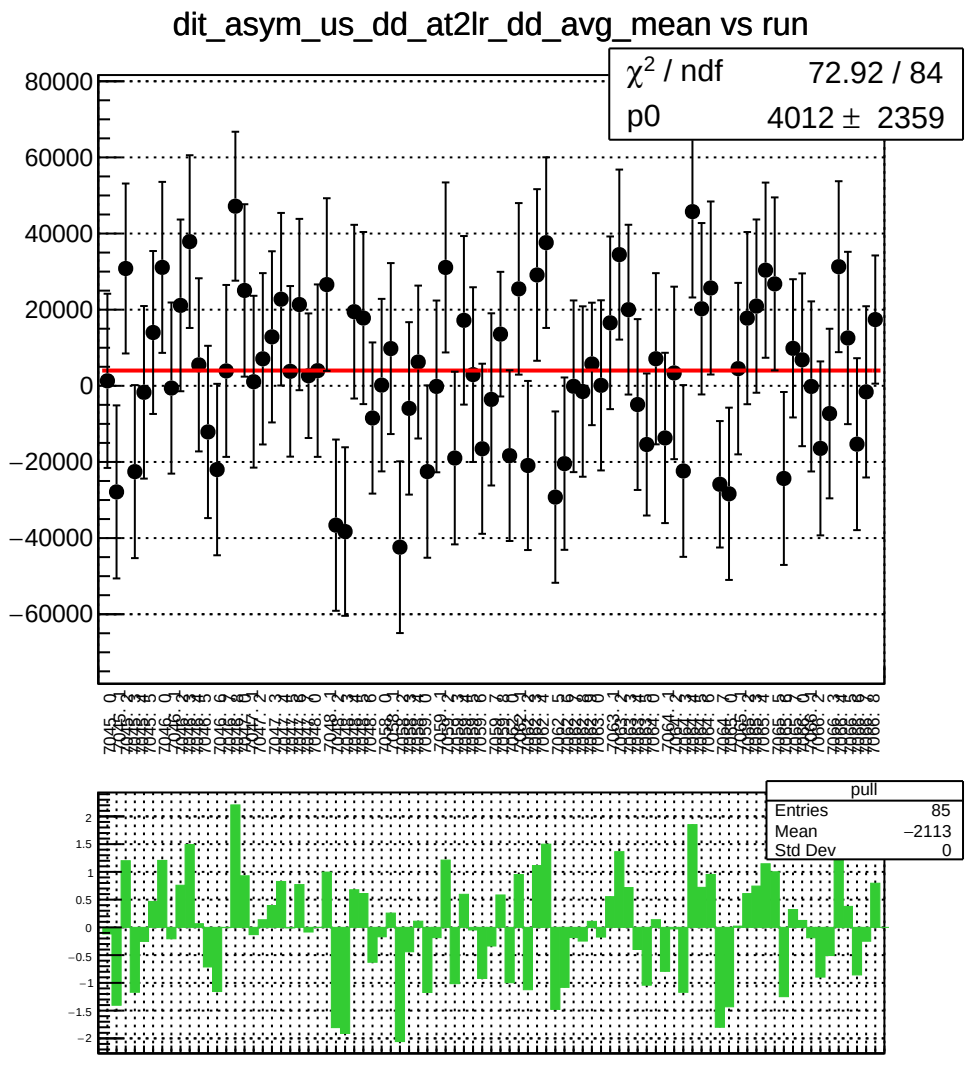

pull1D
Entries 85
Mean 0.0005082
Std Dev 0.9244

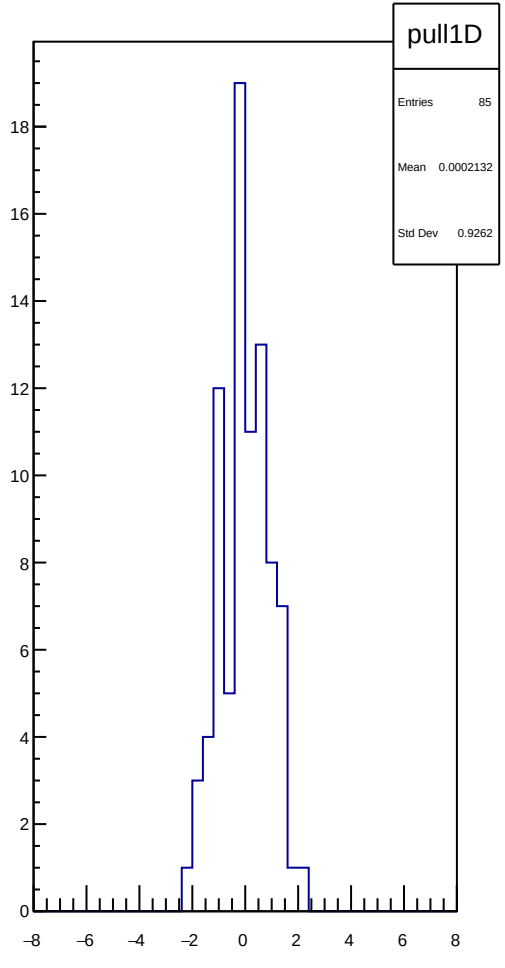

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 82.61 / 84
p0 2138 ± 1.666
2200
2180
2160
2140
2120
2100
2080

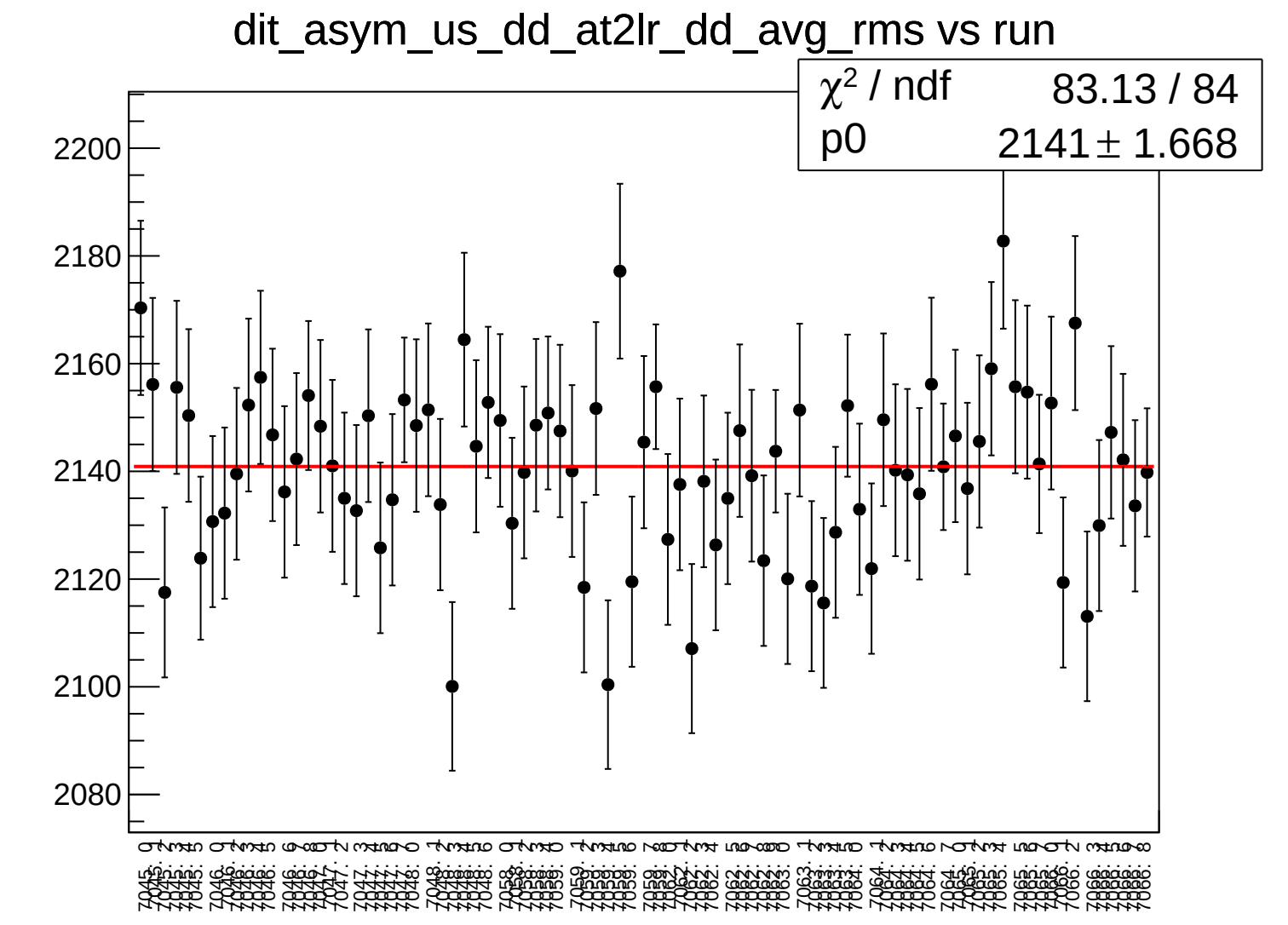

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.2 / 84
p0 −2435 ± 1451
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −492.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

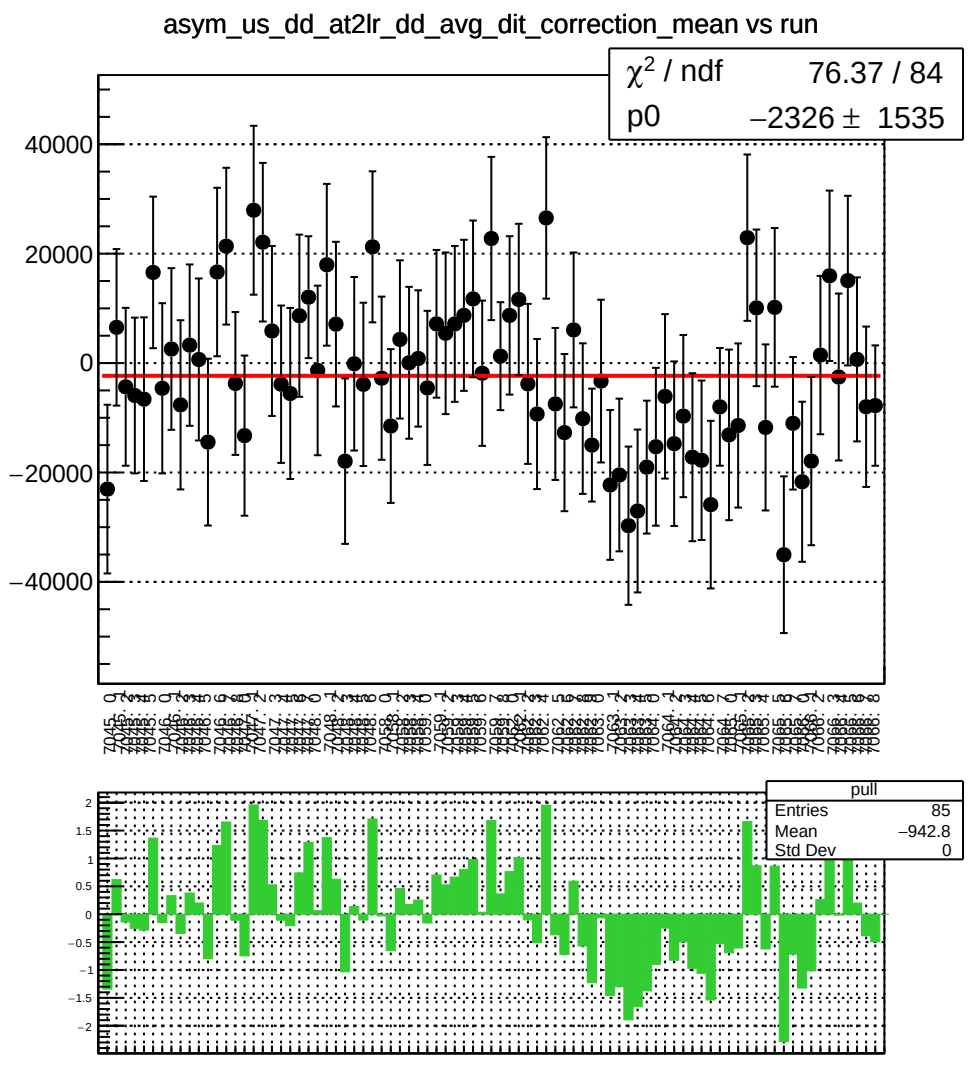

pull1D
Entries 85
Mean 0.01287
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

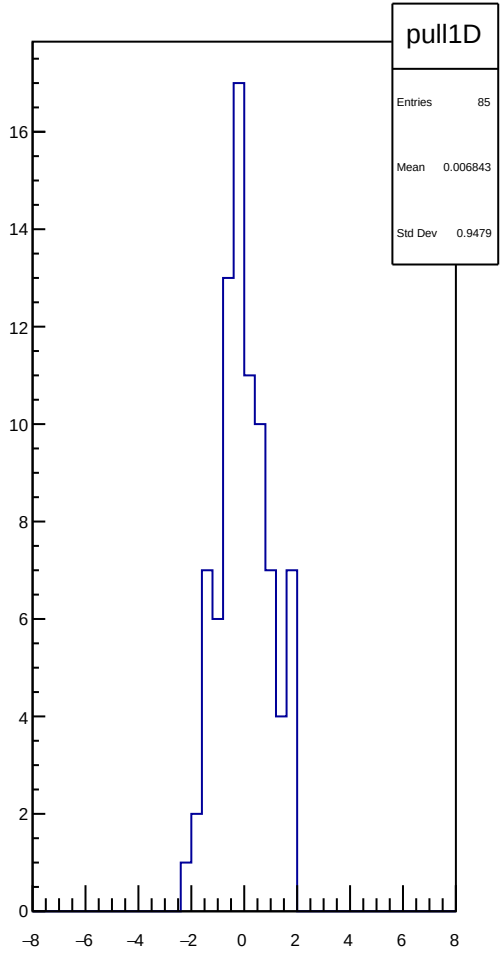

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2687 / 84
p0 1316 ± 1.026
1450
1400
1350
1300
1250
1200
1150

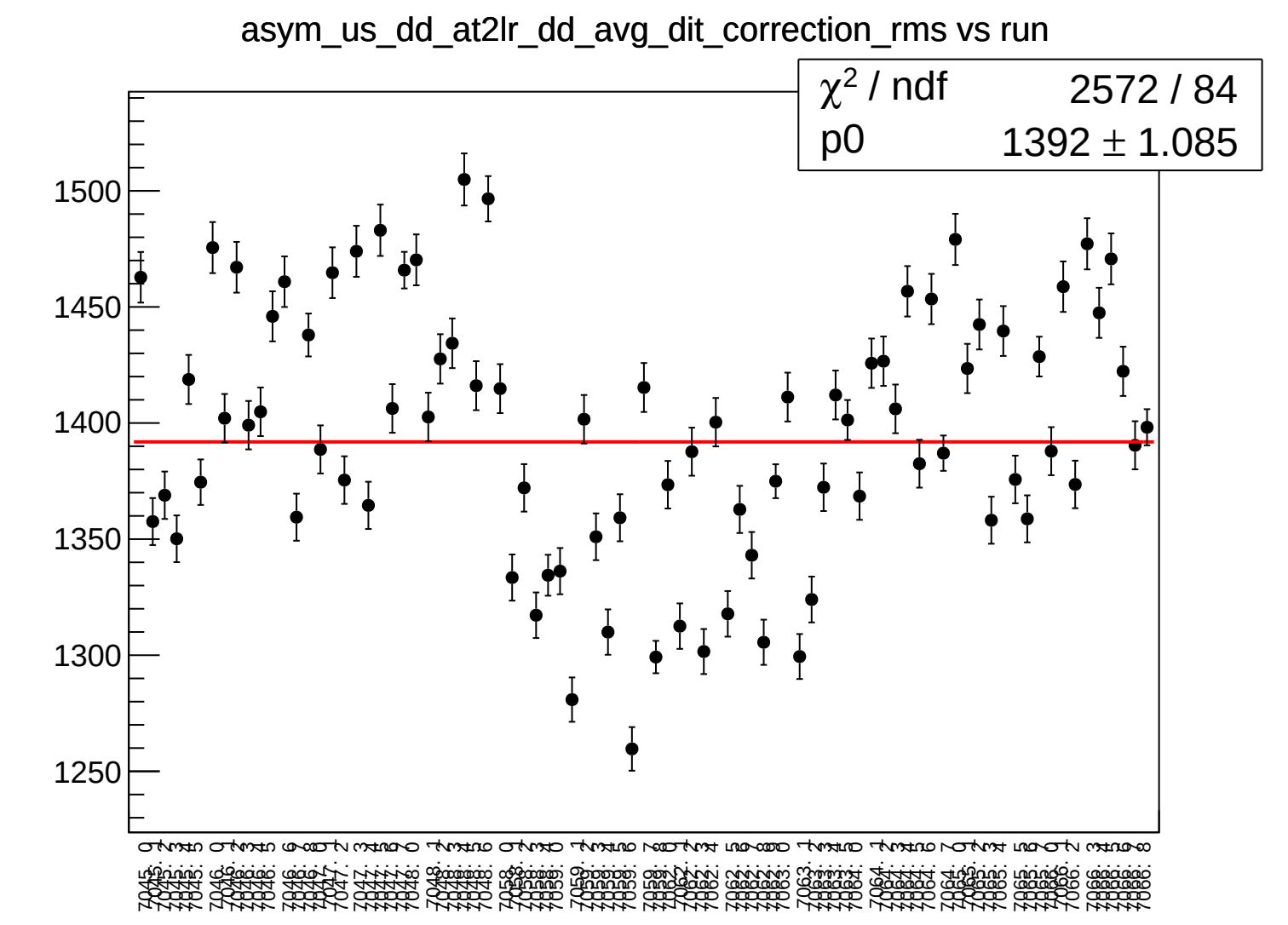

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 72.92 / 84
p0 4012 ± 2359
pull
Entries 85
Mean −2113
Std Dev 0

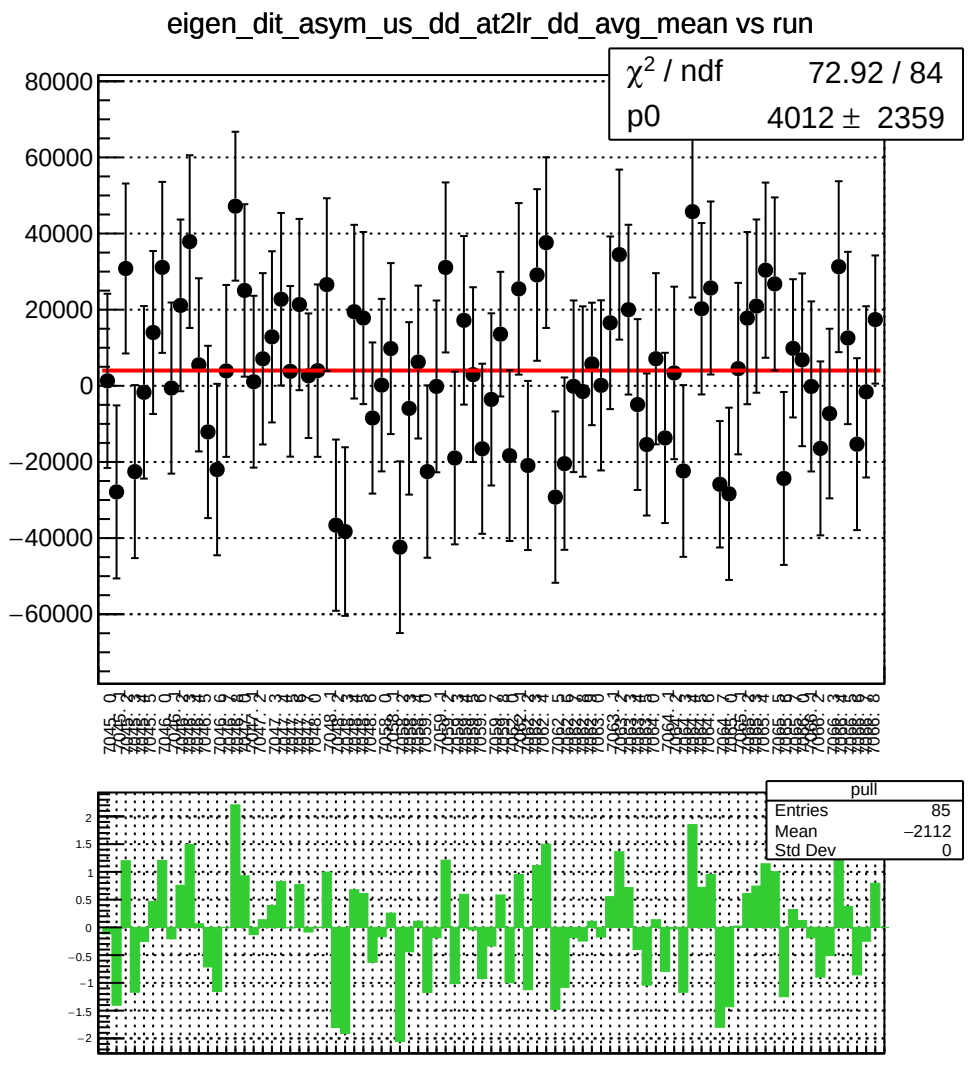

pull1D
Entries 85
Mean 0.0002132
Std Dev 0.9262

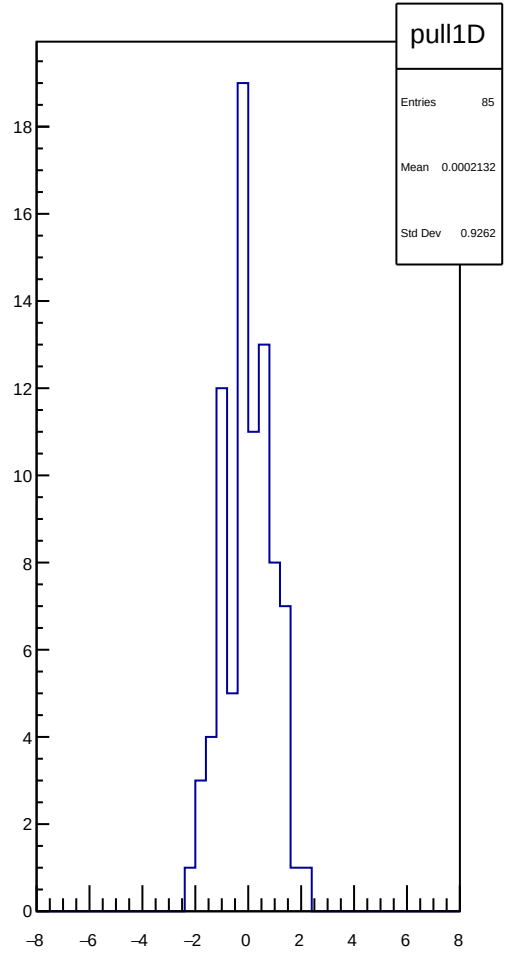

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 83.13 / 84
p0 2141 ± 1.668
2200
2180
2160
2140
2120
2100
2080

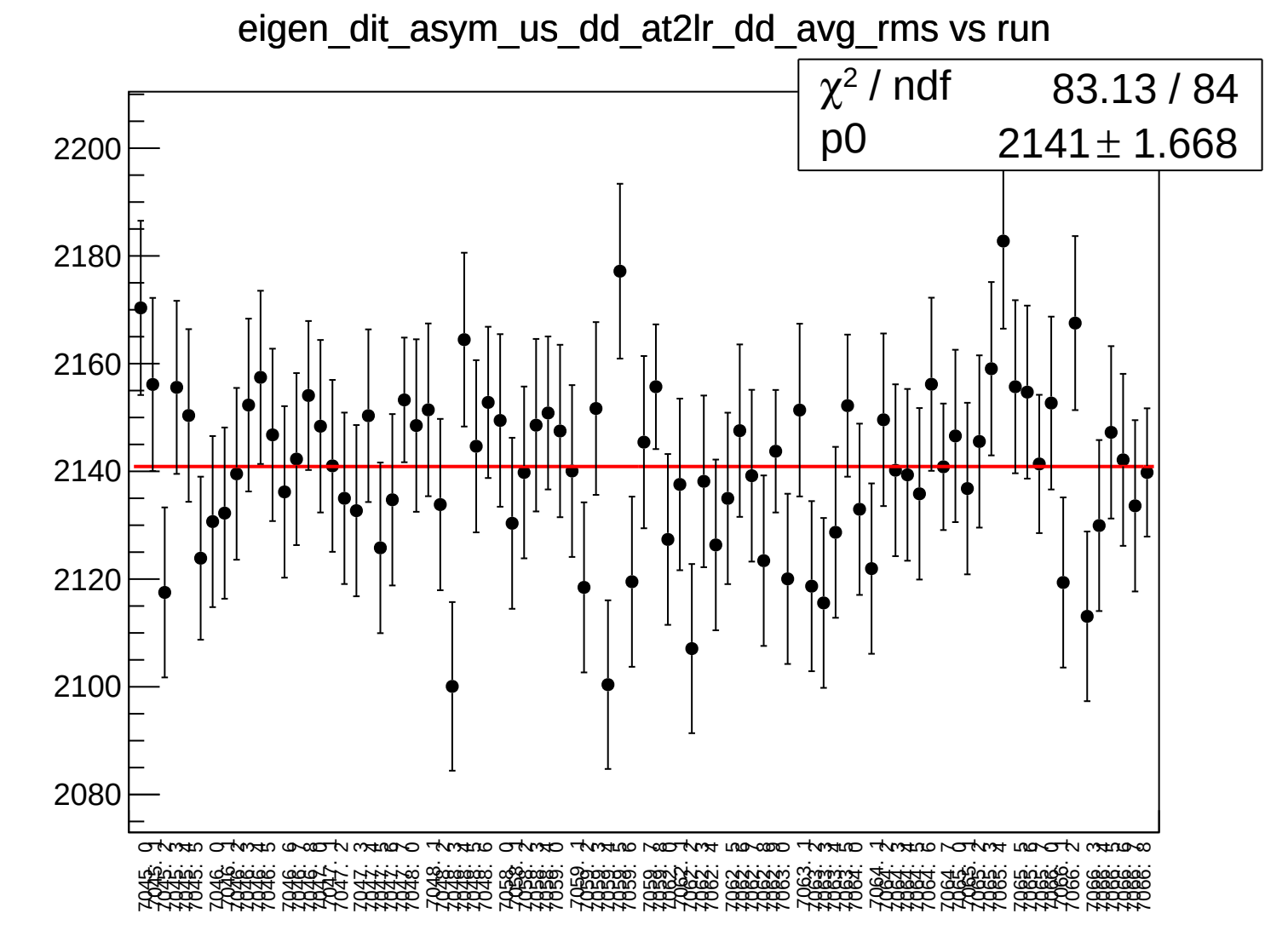

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 76.37 / 84
p0 −2326 ± 1535
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −942.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

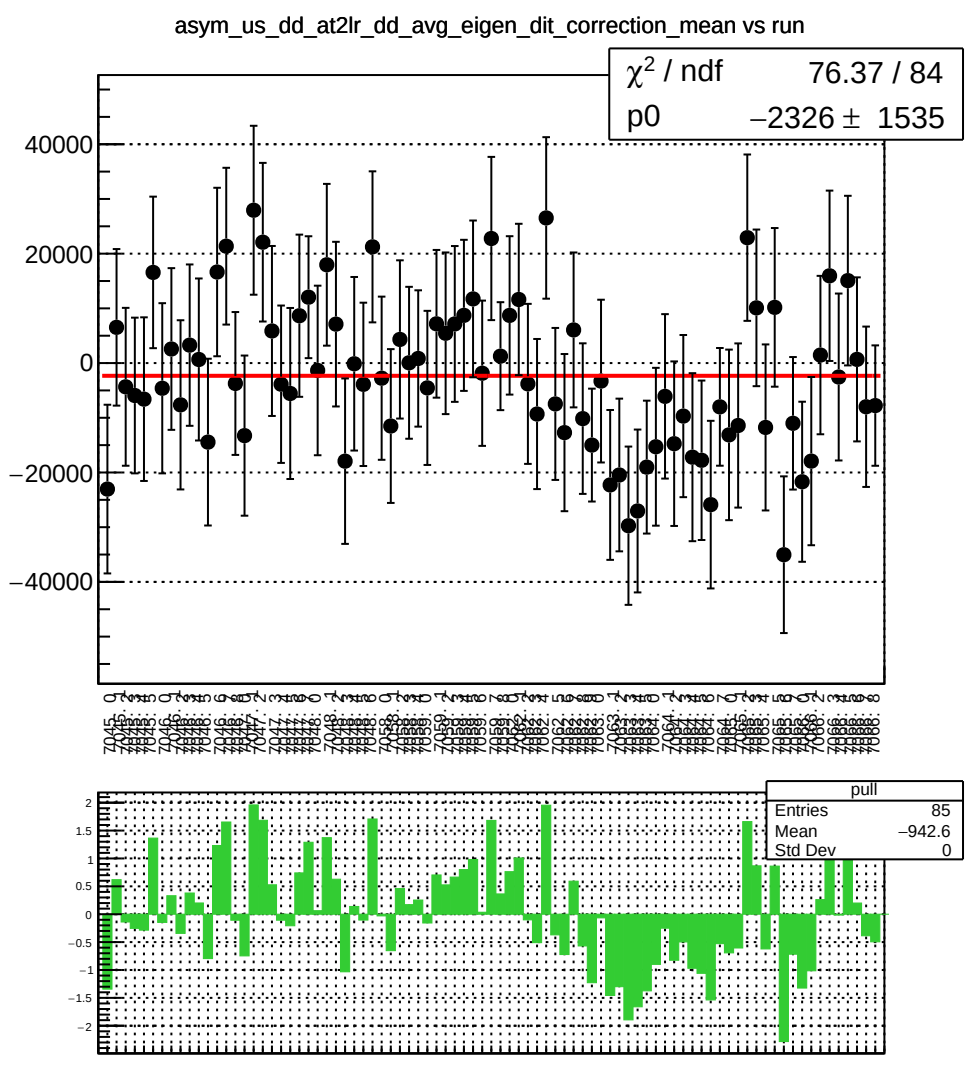

pull1D
Entries 85
Mean 0.006843
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

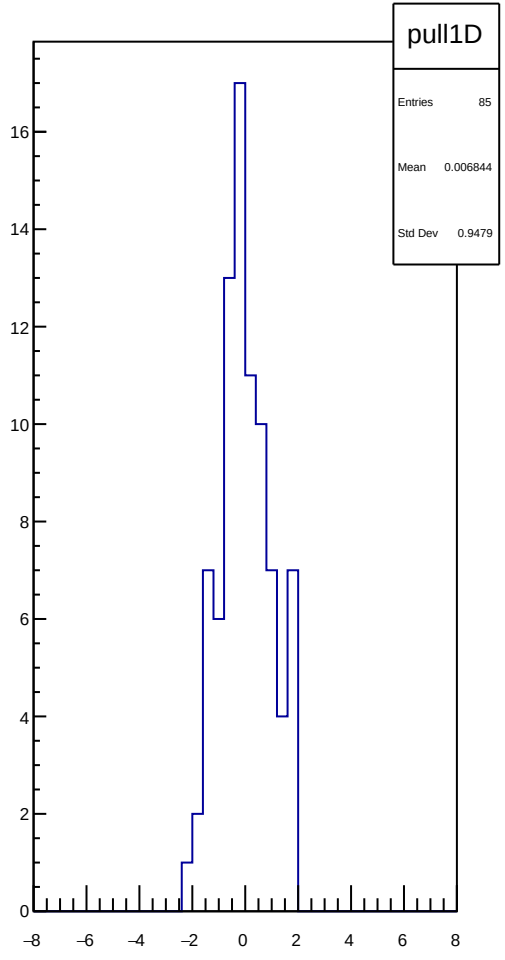

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2572 / 84
p0 1392 ± 1.085
1500
1450
1400
1350
1300
1250

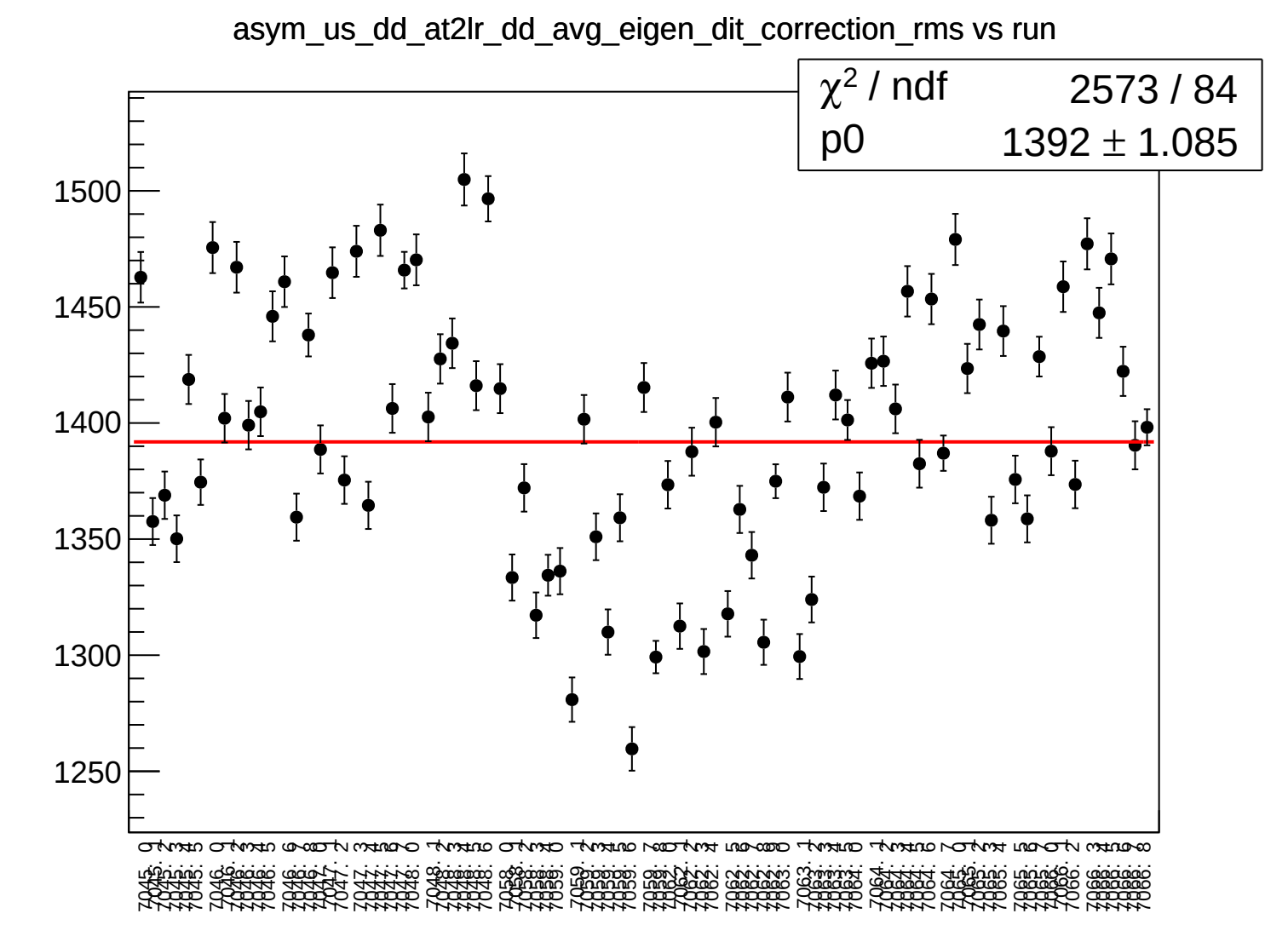

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.92 / 84
p0 4012 ± 2359
pull
Entries 85
Mean −2112
Std Dev 0

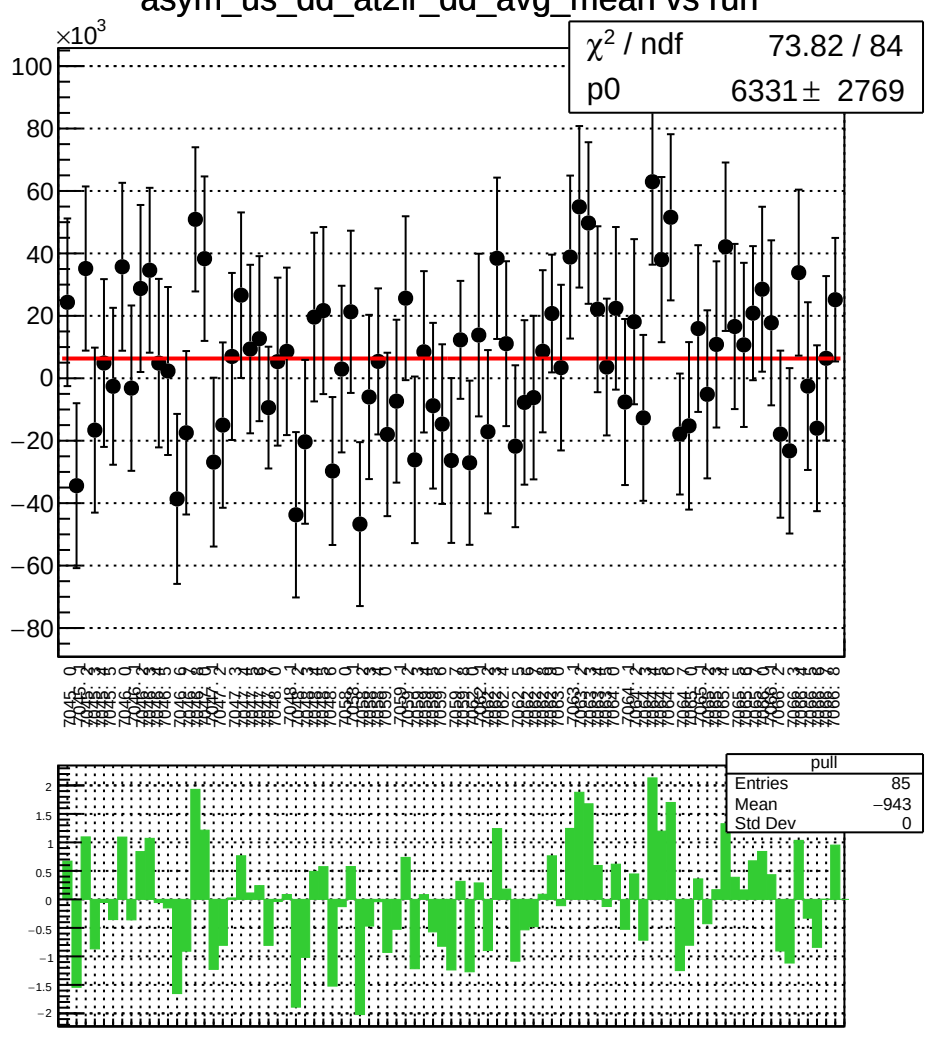

pull1D
Entries 85
Mean 0.0002132
Std Dev 0.9262

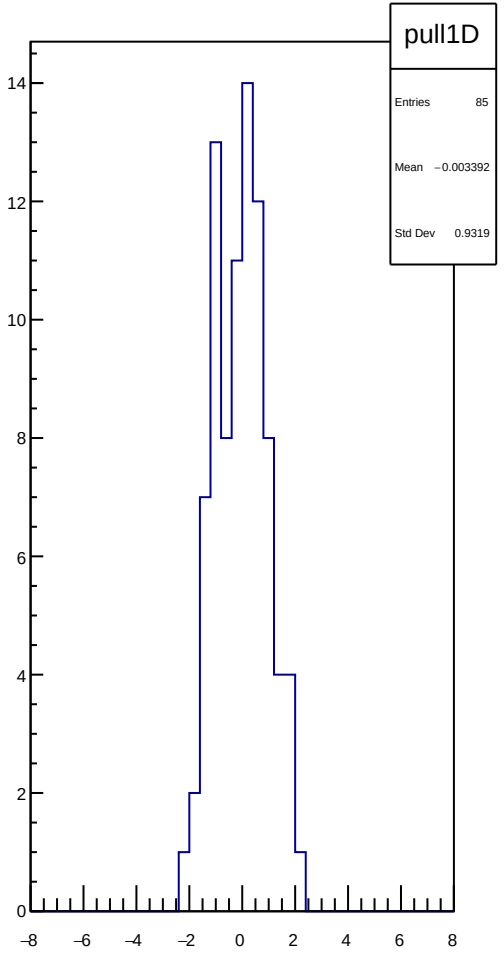

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 83.13 / 84
p0 2141 ± 1.668
2200
2180
2160
2140
2120
2100
2080

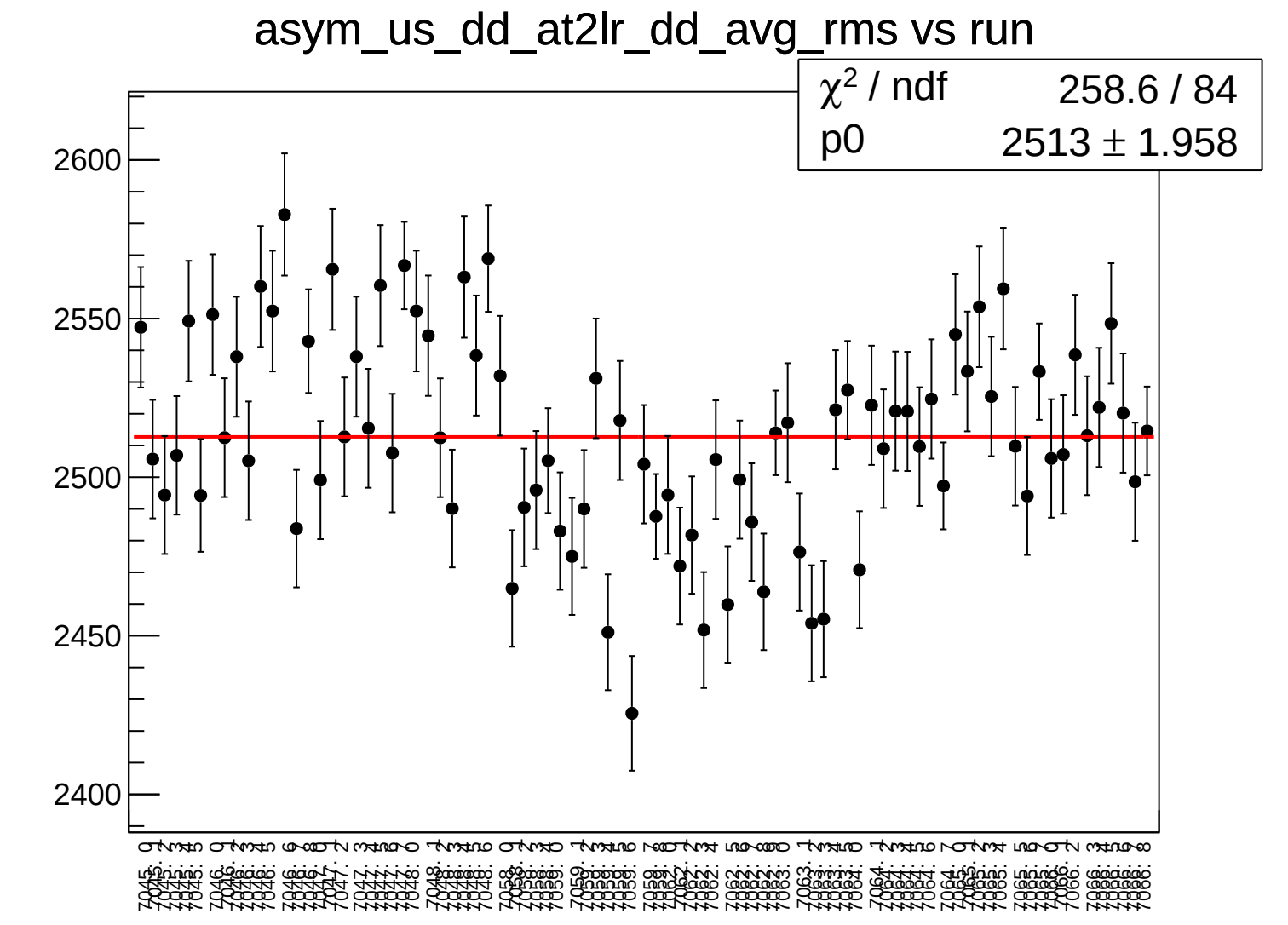

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.37 / 84
p0 −2326 ± 1535
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −942.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

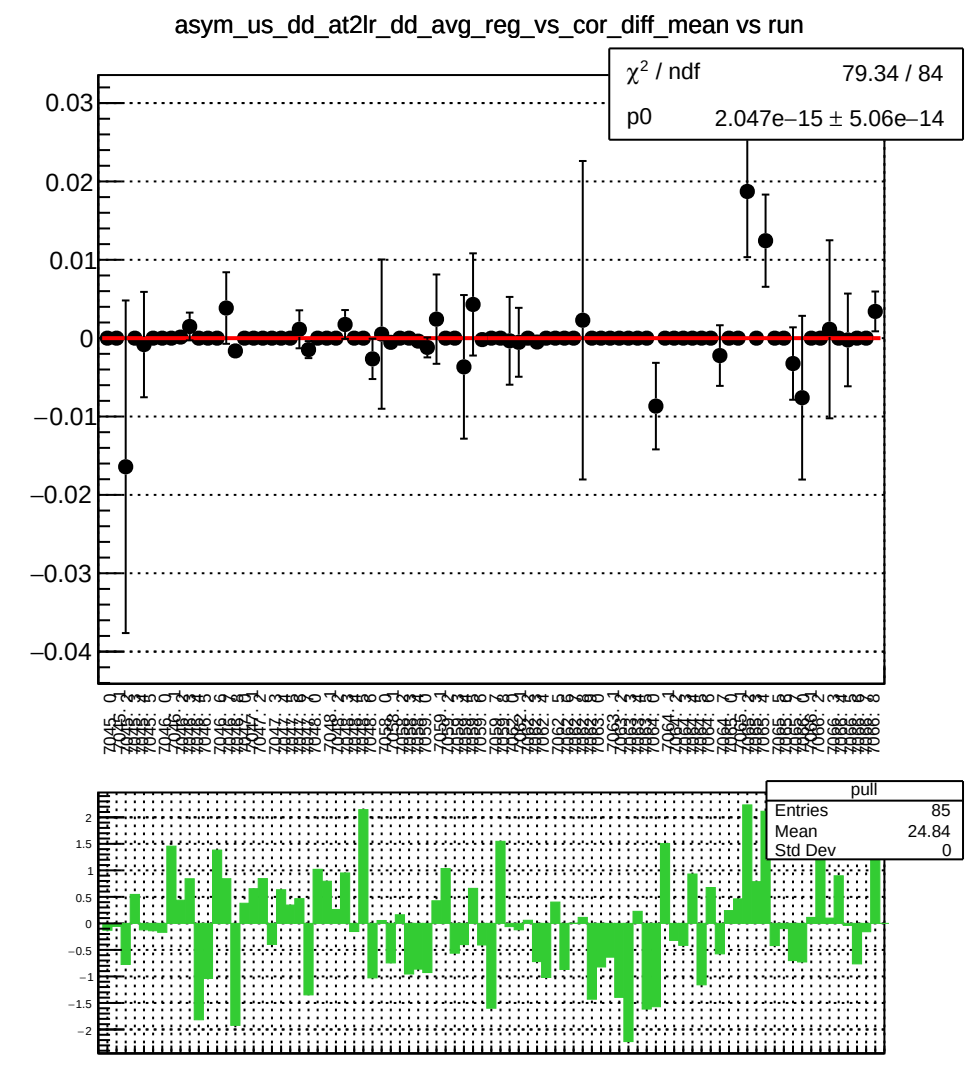

pull1D
Entries 85
Mean 0.006844
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

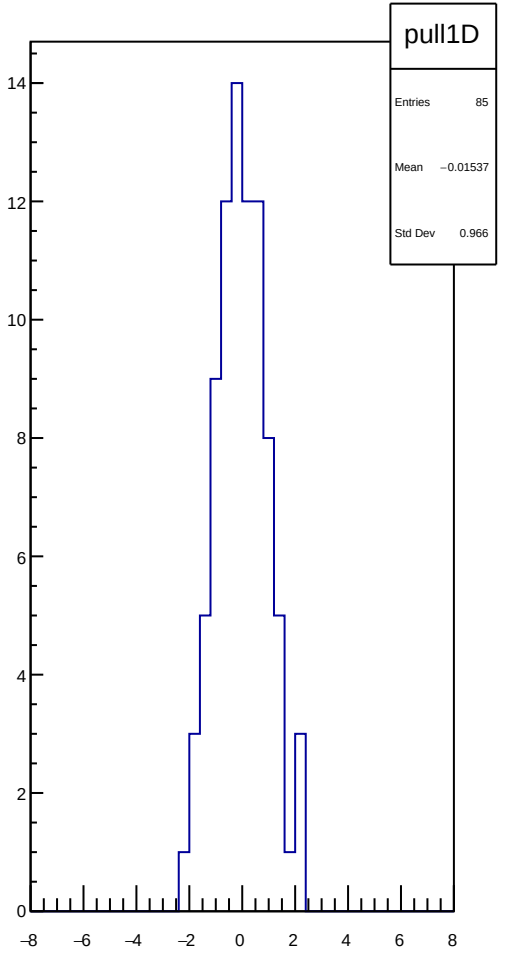

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2573 / 84
p0 1392 ± 1.085
1500
1450
1400
1350
1300
1250

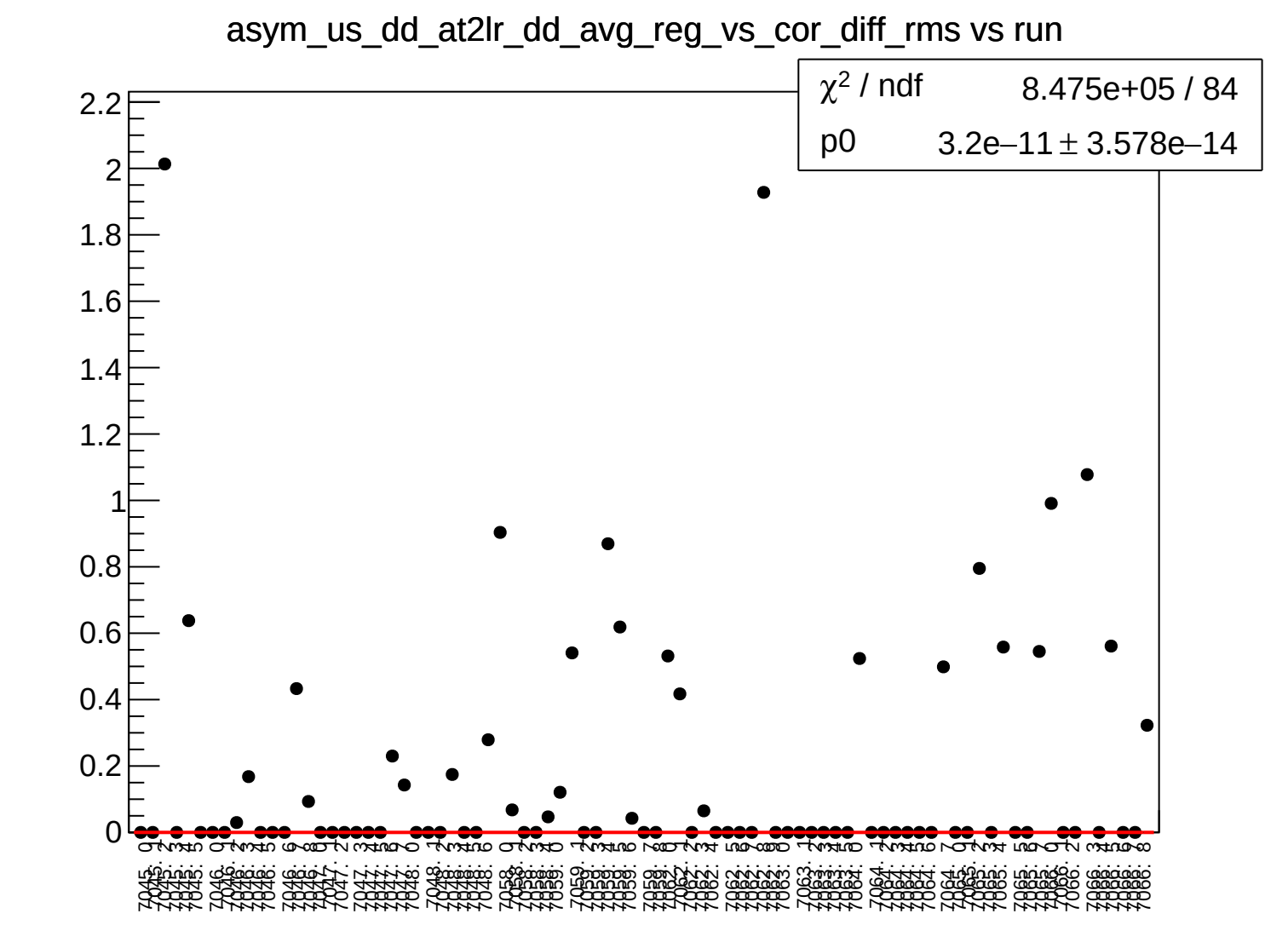

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 73.82 / 84
p0 6331 ± 2769
pull
Entries 85
Mean −943
Std Dev 0

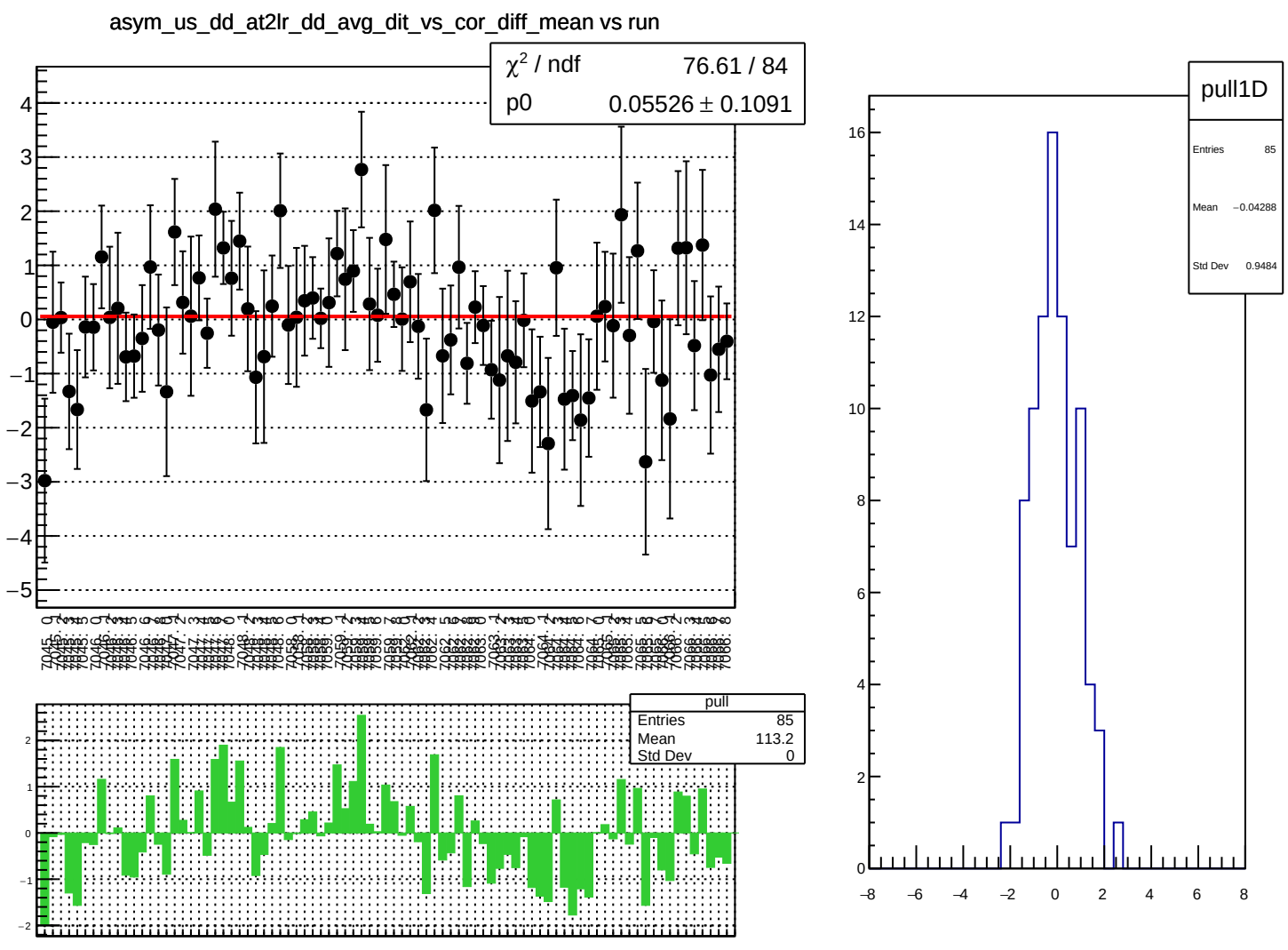

pull1D
Entries 85
Mean −0.003392
Std Dev 0.9319

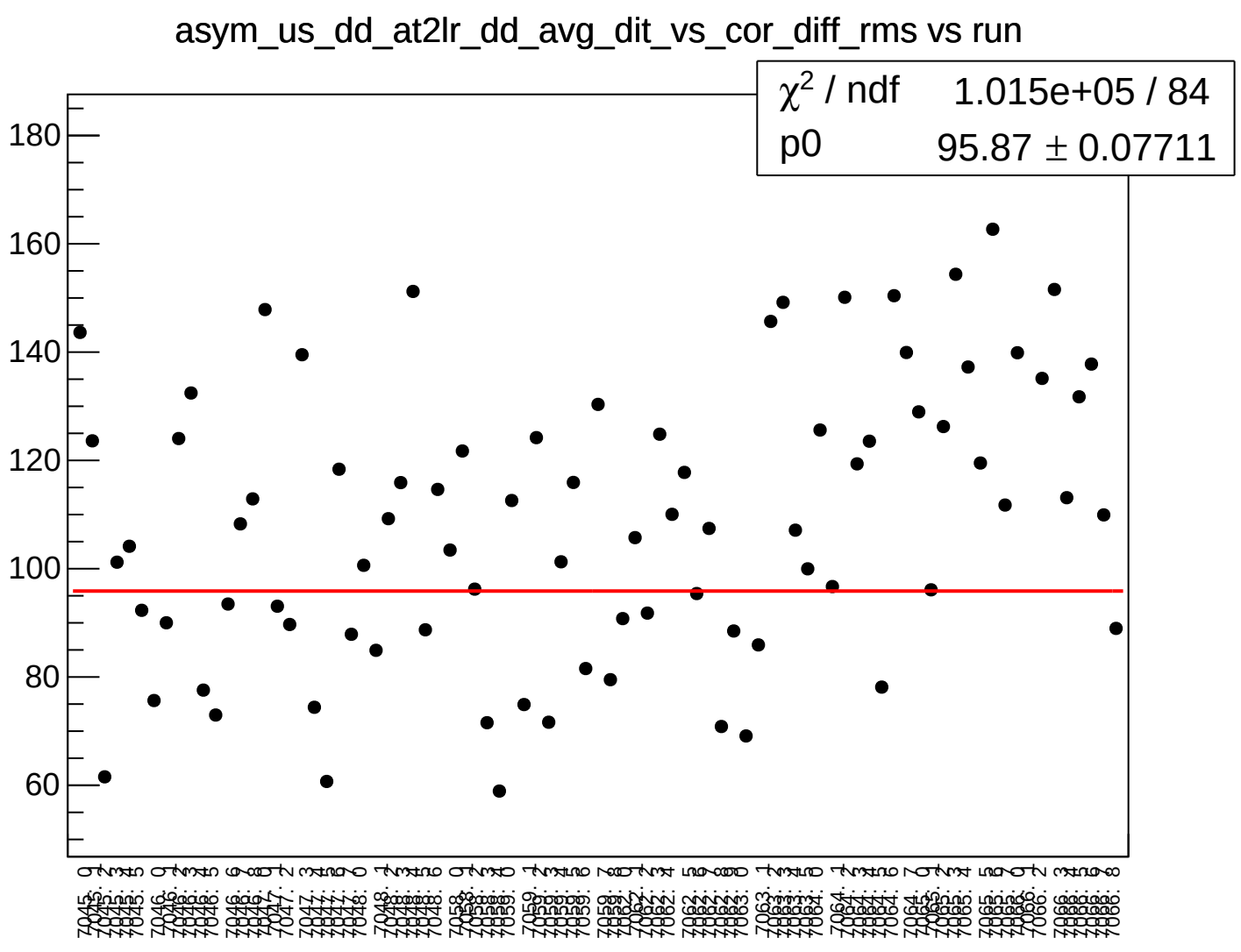

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 258.6 / 84
p0 2513 ± 1.958
2600
2550
2500
2450
2400

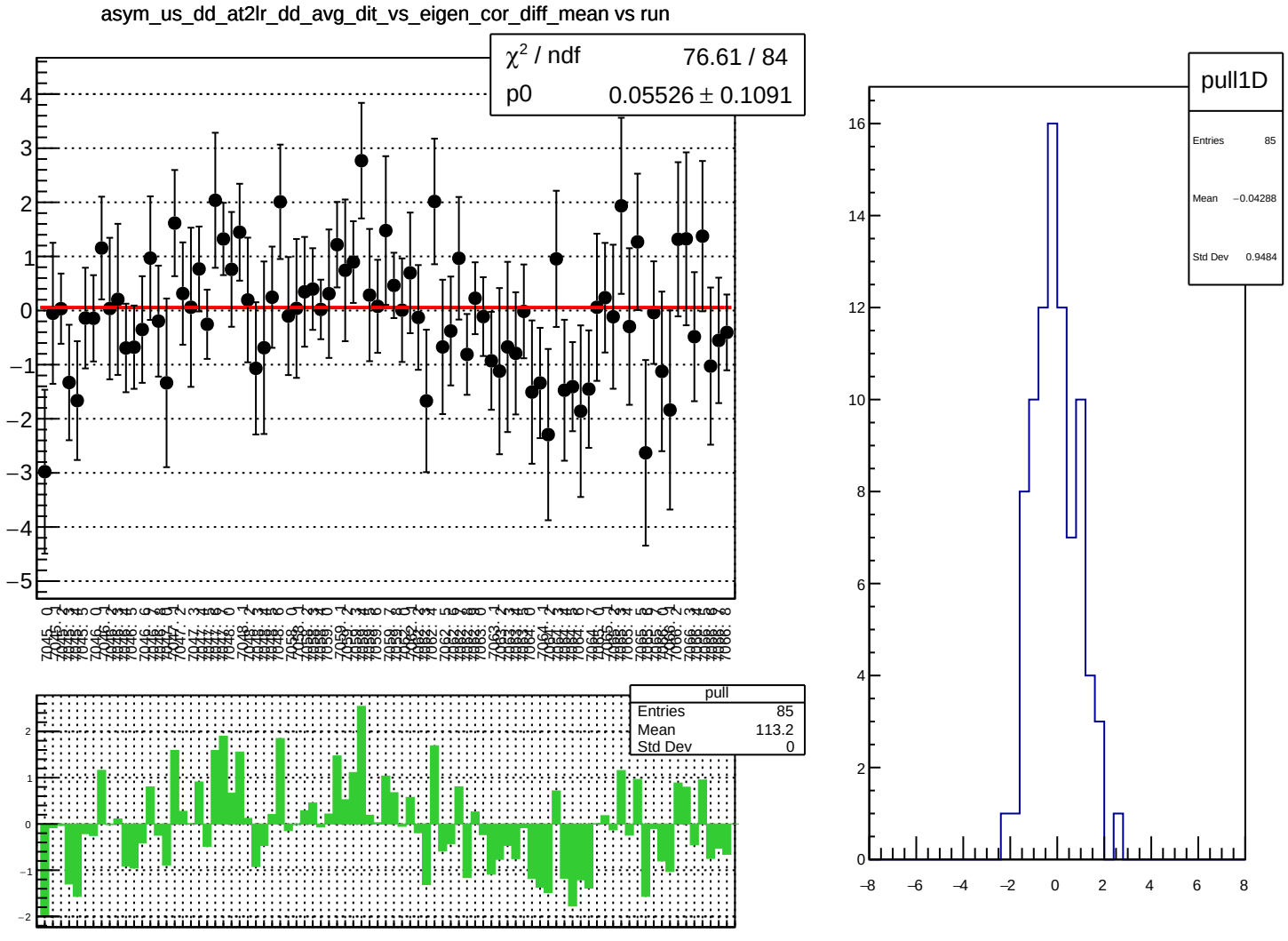

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.34 / 84
p0 2.047e−15 ± 5.06e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean 24.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

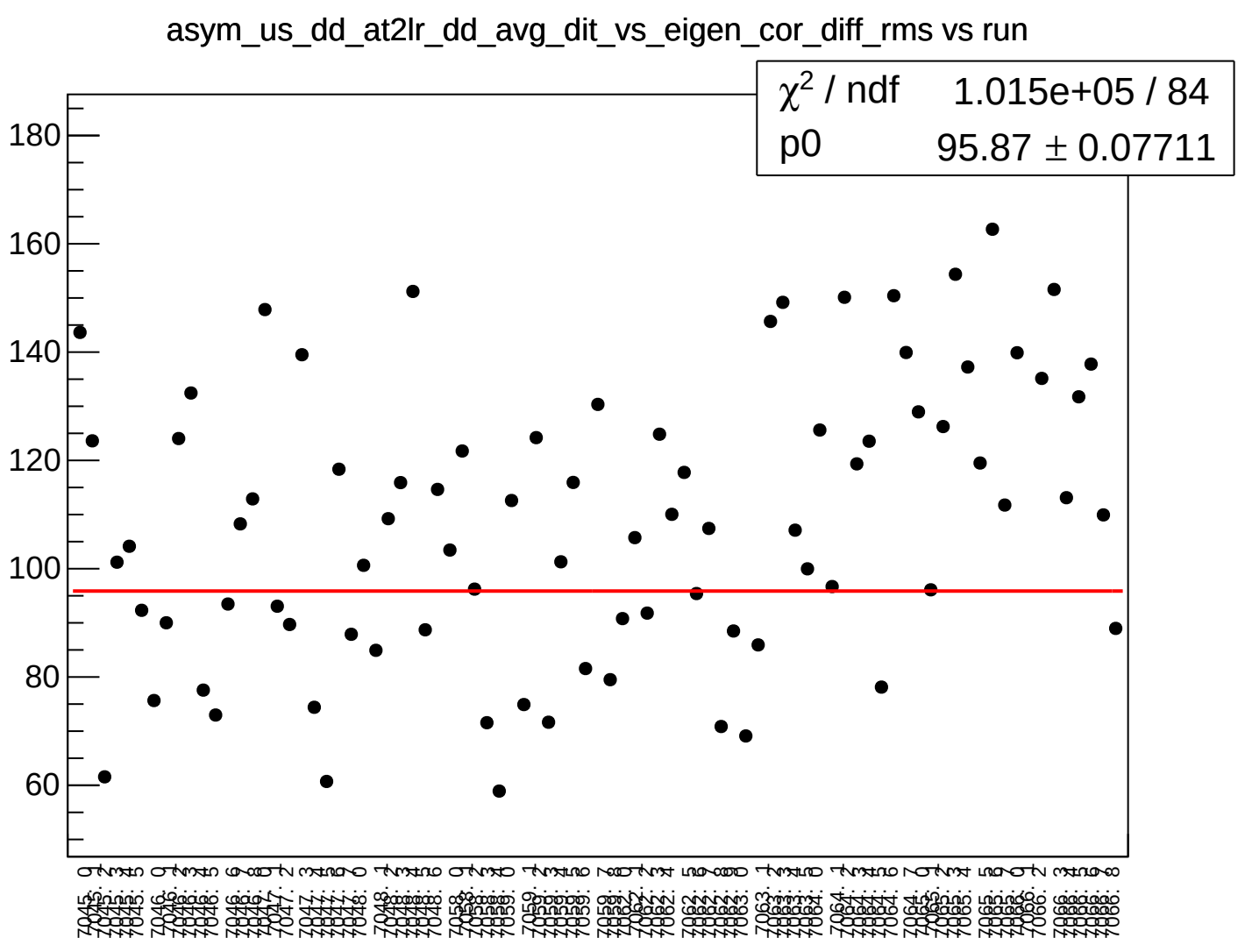

pull1D
Entries 85
Mean −0.01537
Std Dev 0.966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

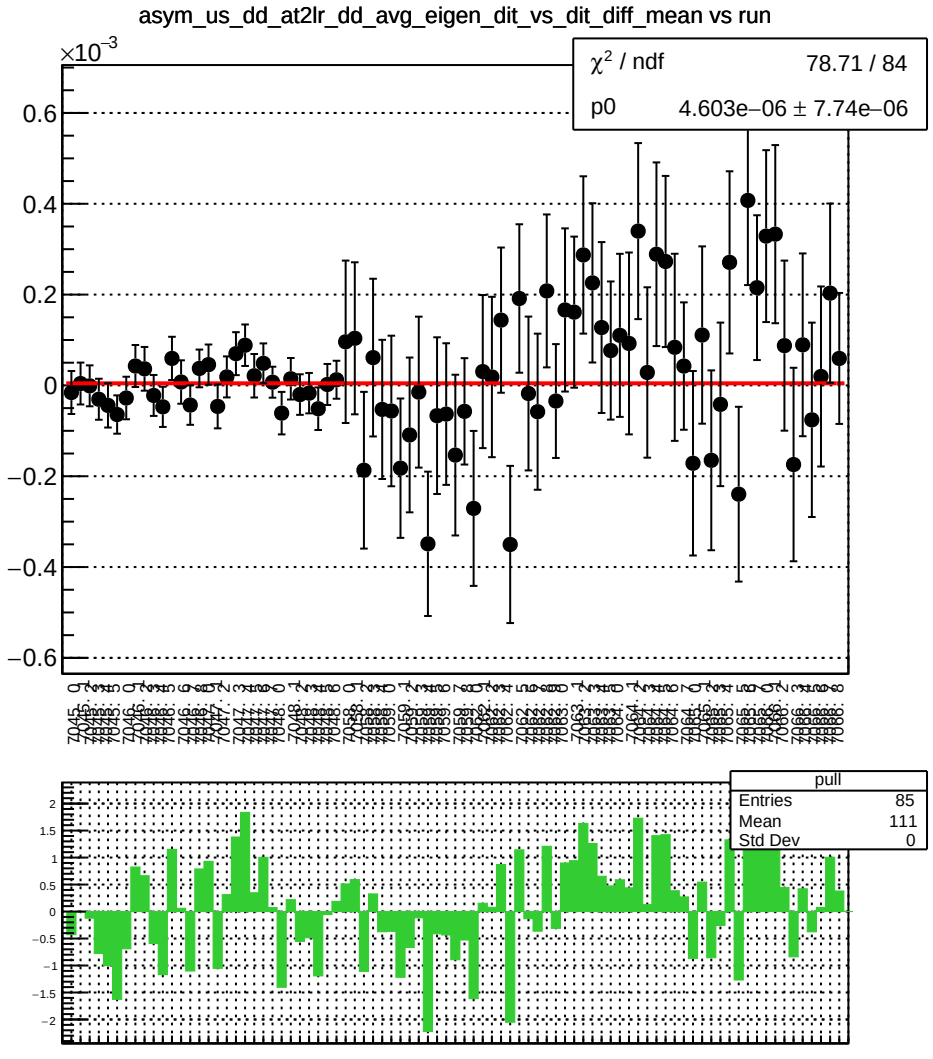

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.475e+05 / 84
p0 3.2e−11 ± 3.578e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

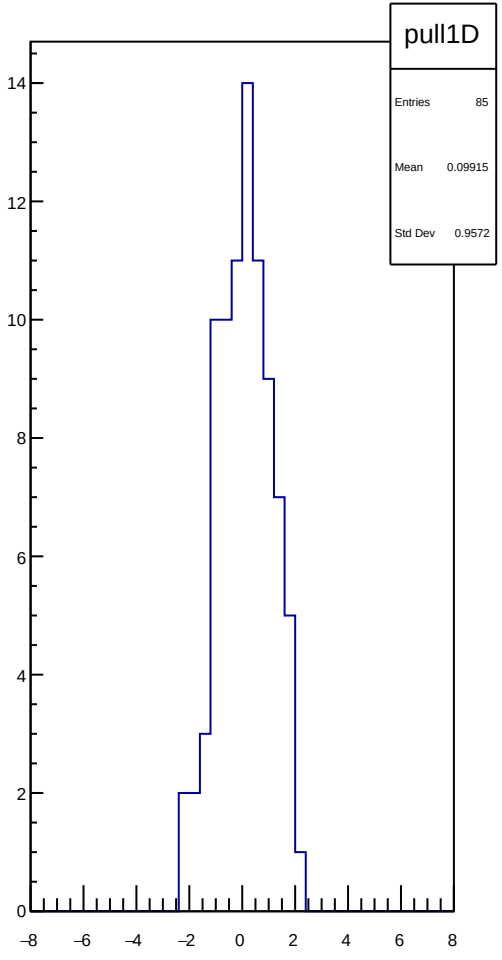

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.61 / 84
p0 0.05526 ± 0.1091
pull
Entries 85
Mean 113.2
Std Dev 0
pull1D
Entries 85
Mean −0.04288
Std Dev 0.9484

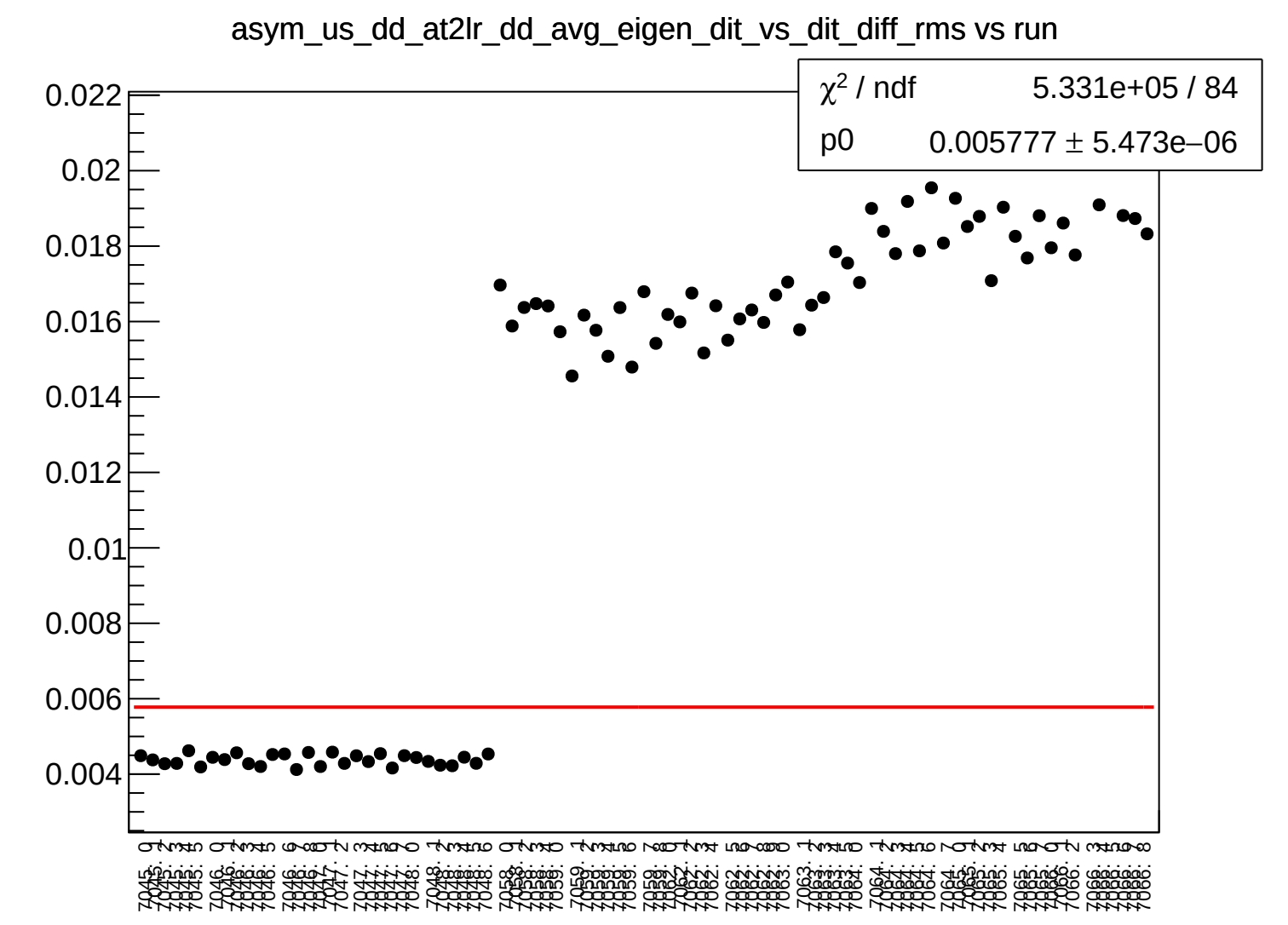

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.015e+05 / 84
p0 95.87 ± 0.07711
180
160
140
120
100
80
60

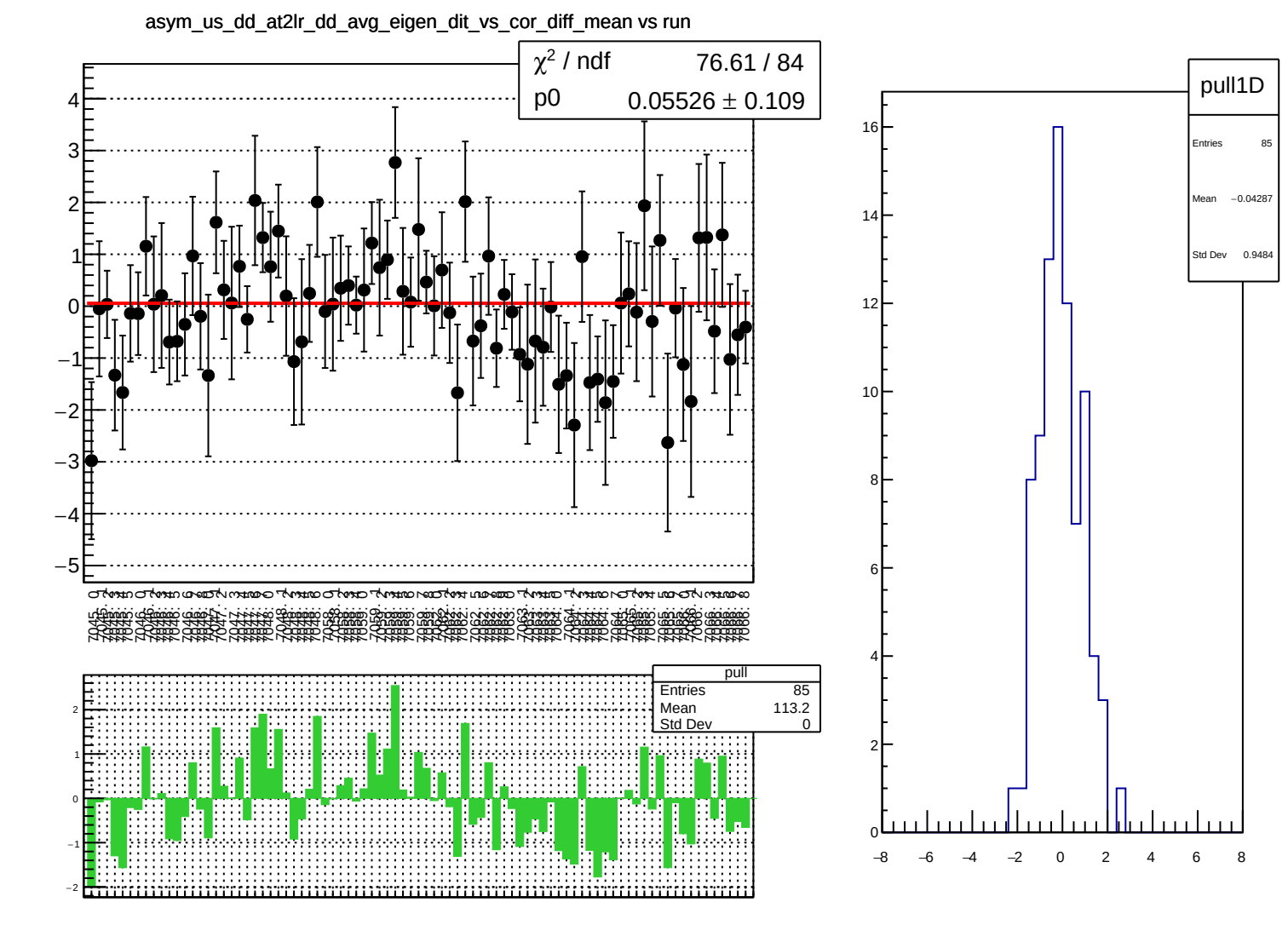

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.61 / 84
p0 0.05526 ± 0.1091
pull
Entries 85
Mean 113.2
Std Dev 0
pull1D
Entries 85
Mean −0.04288
Std Dev 0.9484

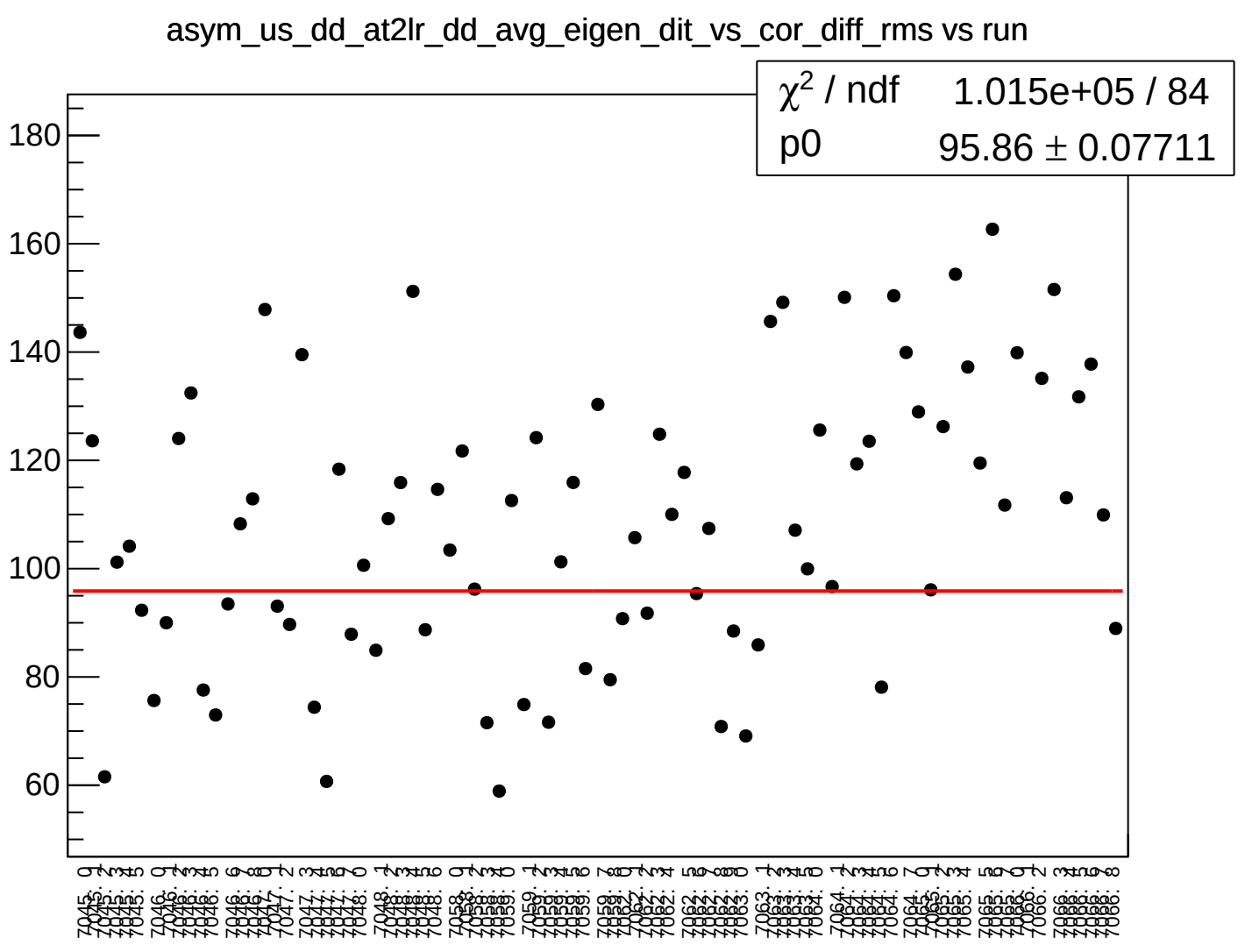

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.015e+05 / 84
p0 95.87 ± 0.07711
180
160
140
120
100
80
60

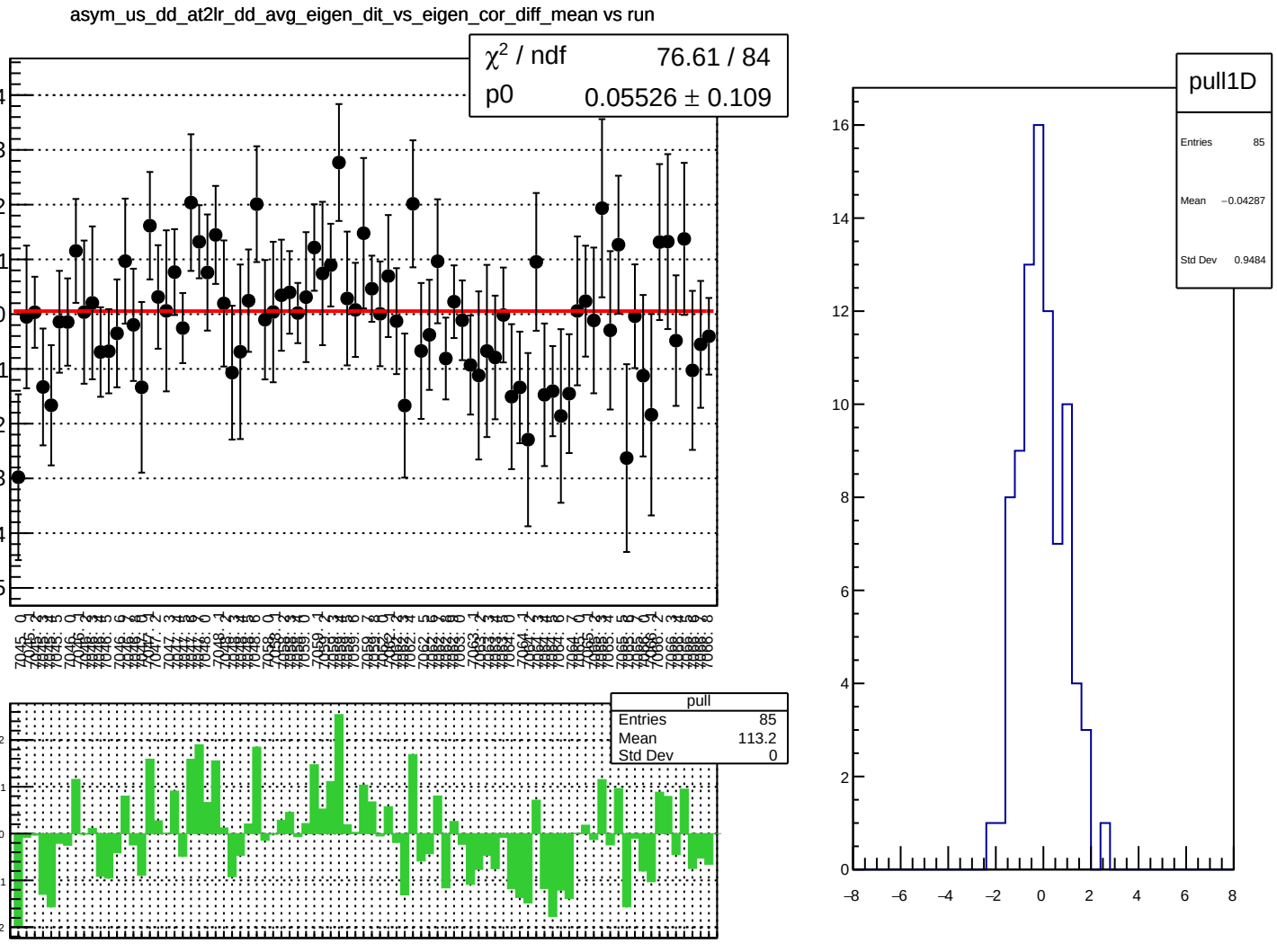

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.71 / 84
p0 4.603e−06 ± 7.74e−06
pull
Entries 85
Mean 111
Std Dev 0

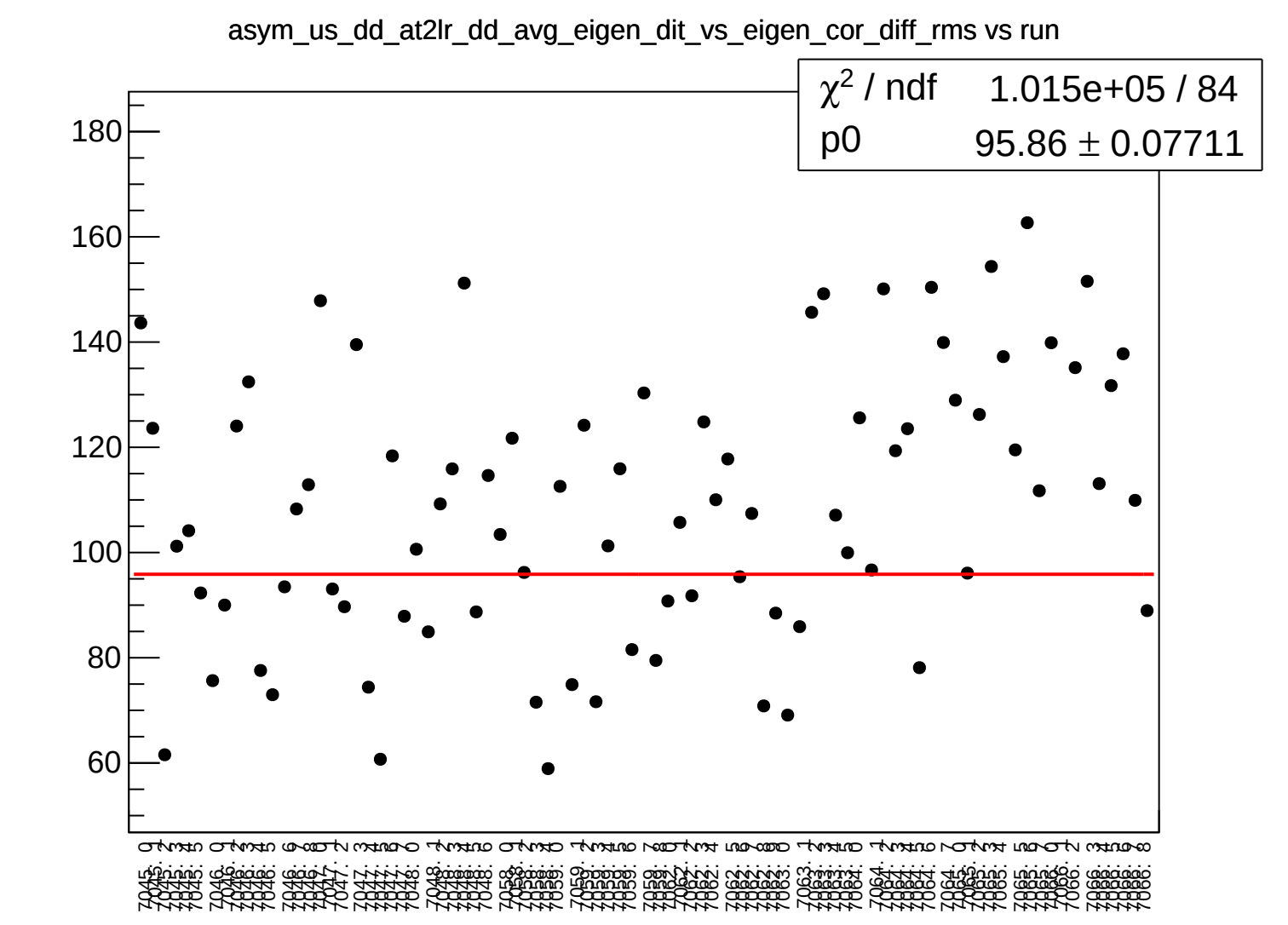

pull1D
Entries 85
Mean 0.09915
Std Dev 0.9572

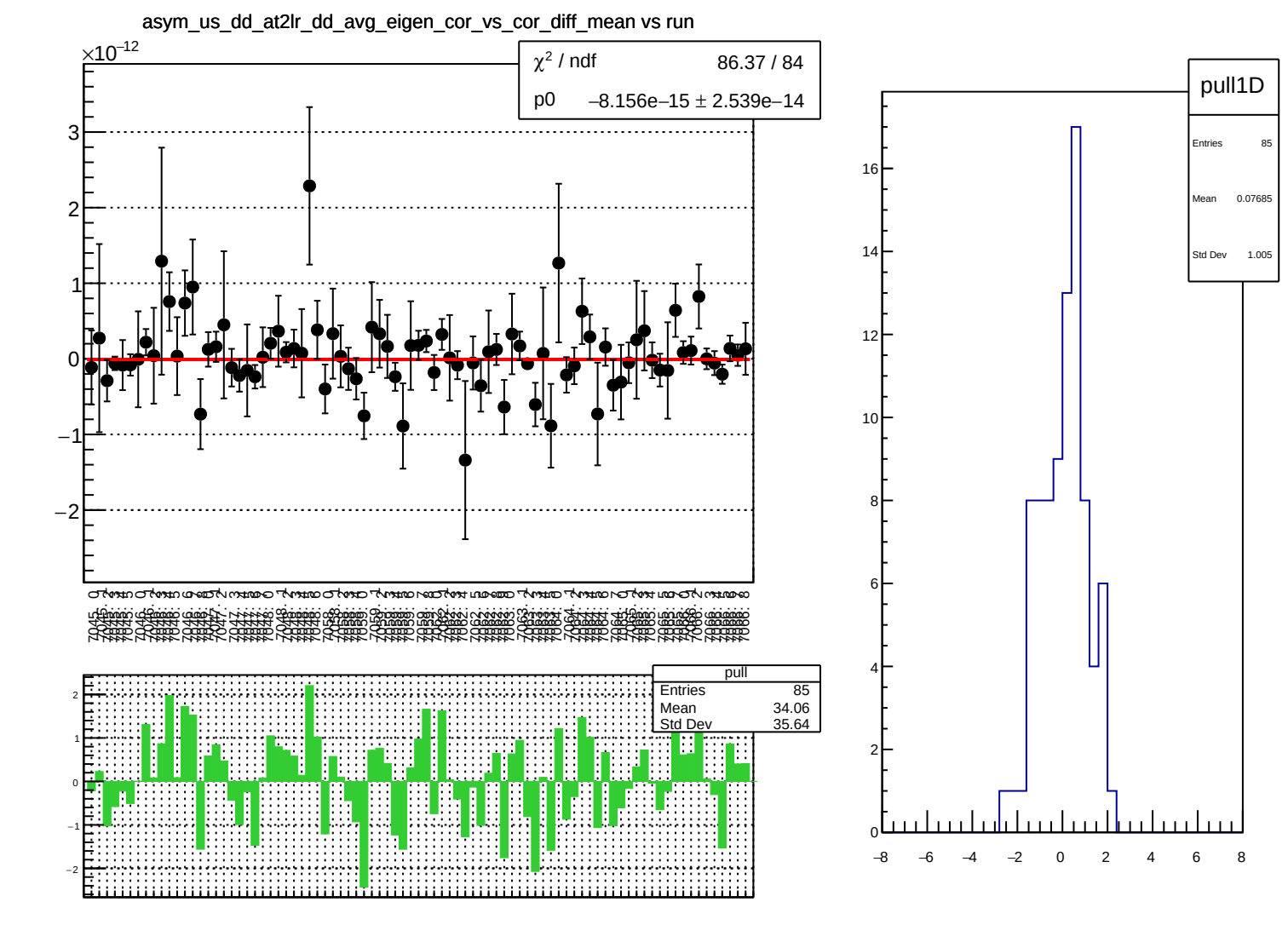

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.331e+05 / 84
p0 0.005777 ± 5.473e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

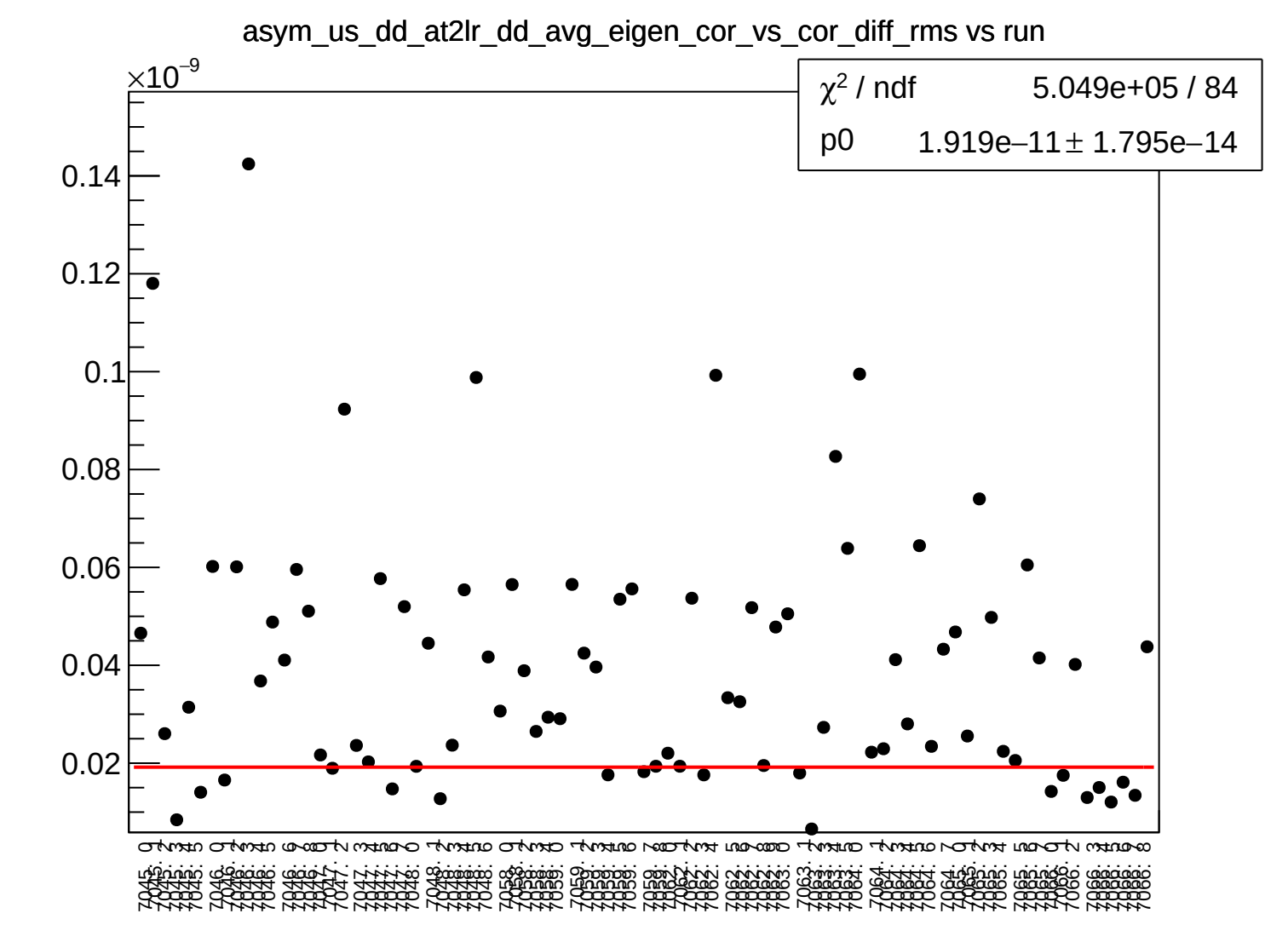

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.61 / 84
p0 0.05526 ± 0.109
pull
Entries 85
Mean 113.2
Std Dev 0
pull1D
Entries 85
Mean −0.04287
Std Dev 0.9484

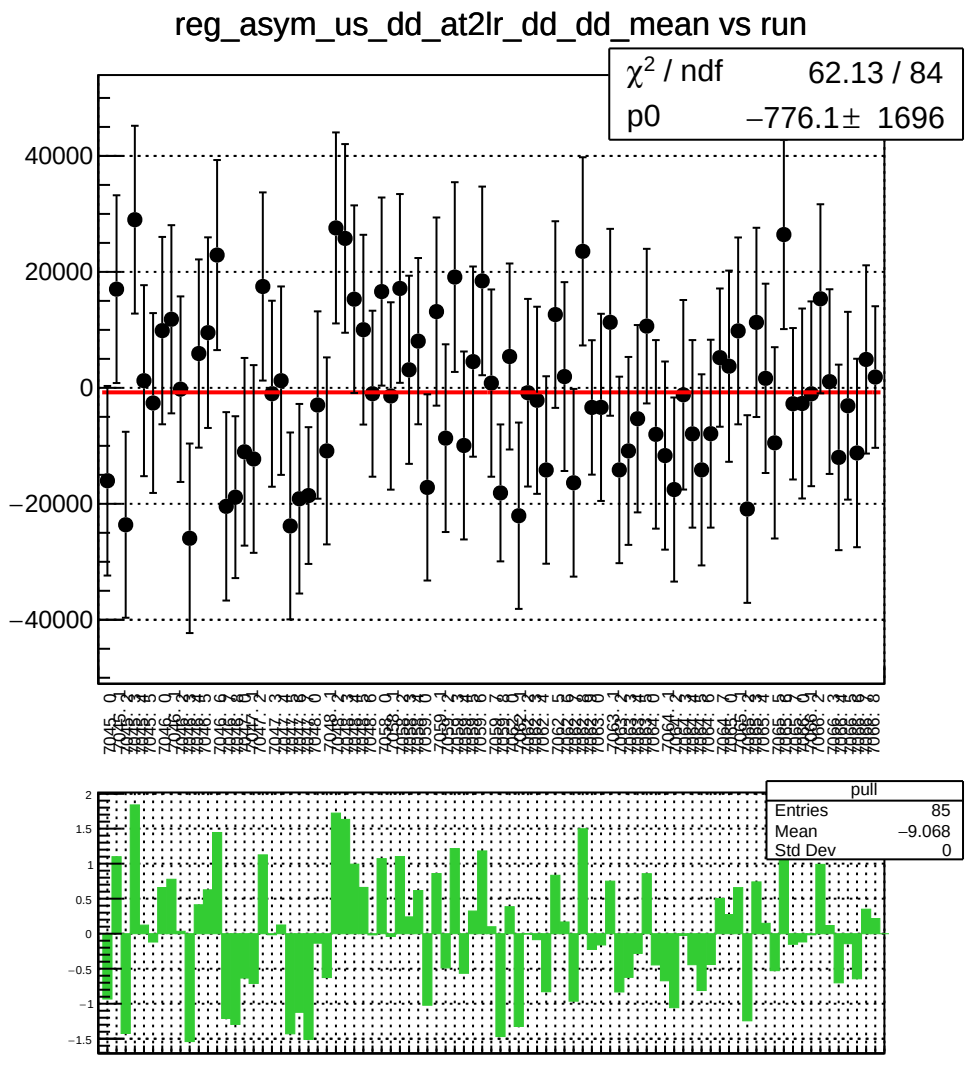

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.015e+05 / 84
p0 95.86 ± 0.07711
180
160
140
120
100
80
60

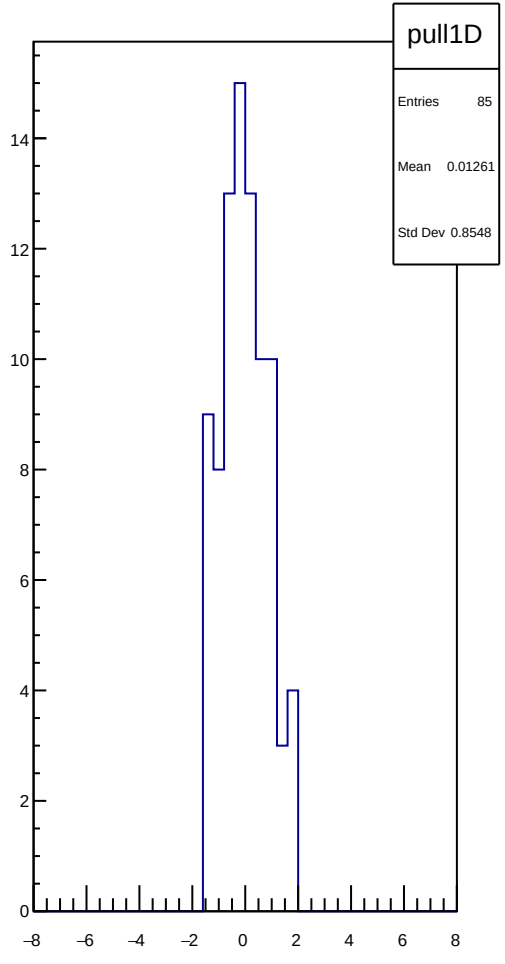

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.61 / 84
p0 0.05526 ± 0.109
pull
Entries 85
Mean 113.2
Std Dev 0
pull1D
Entries 85
Mean −0.04287
Std Dev 0.9484

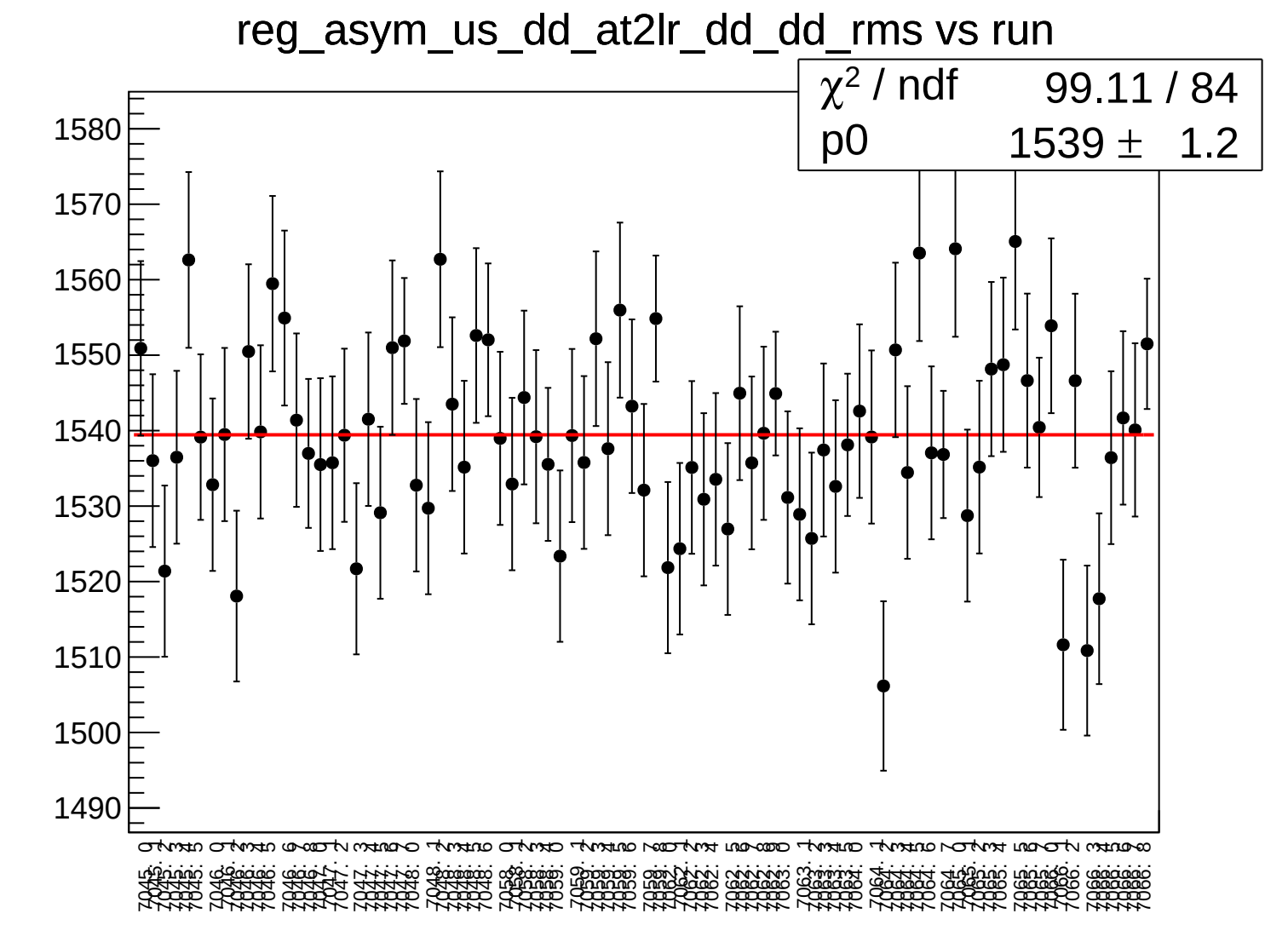

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.015e+05 / 84
p0 95.86 ± 0.07711
180
160
140
120
100
80
60

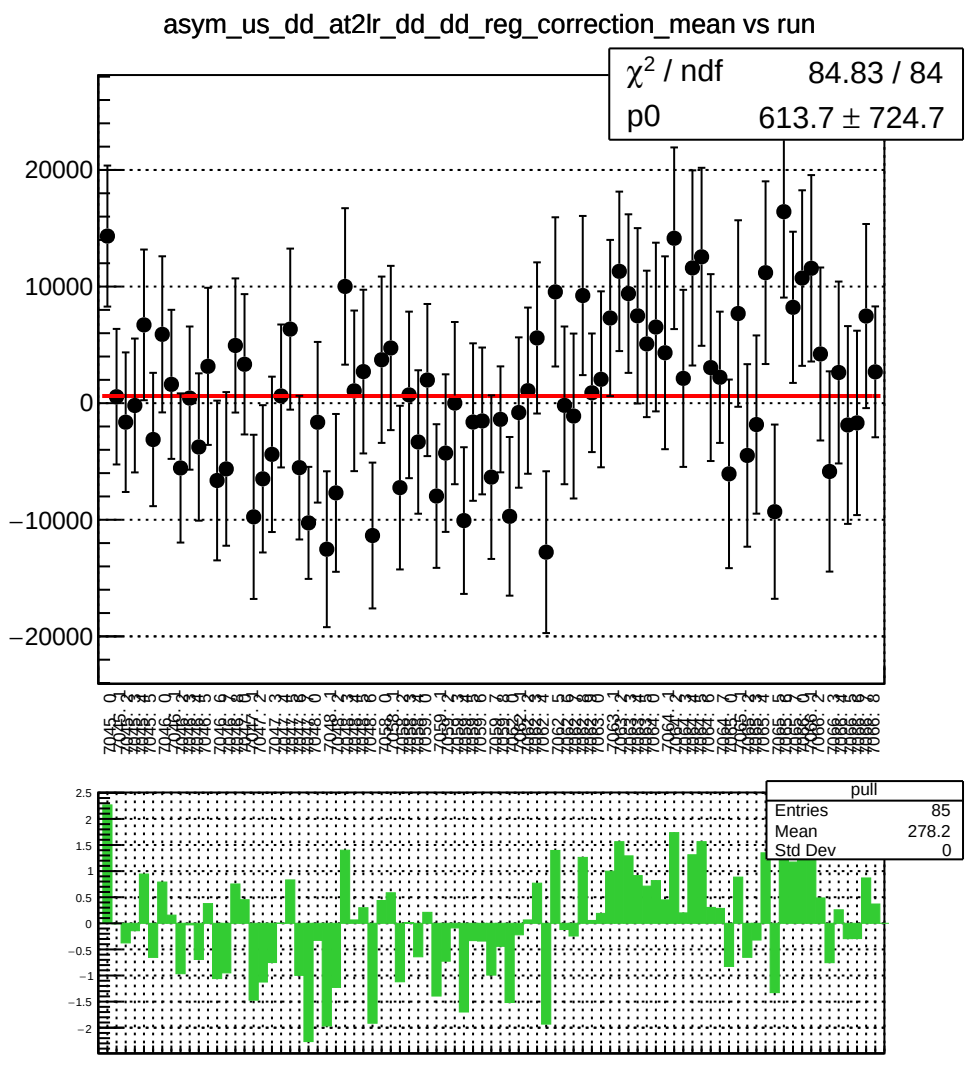

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.37 / 84
p0 −8.156e−15 ± 2.539e−14
pull
Entries 85
Mean 34.06
Std Dev 35.64
pull1D
Entries 85
Mean 0.07685
Std Dev 1.005

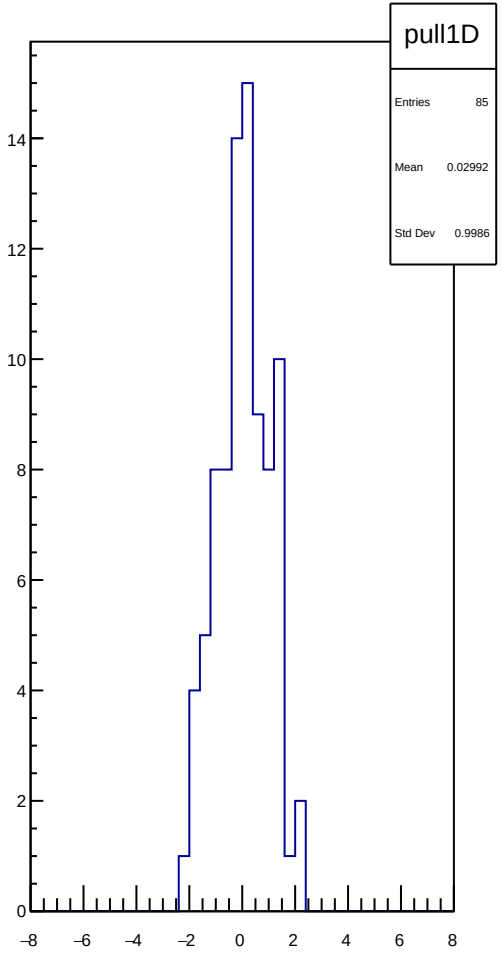

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.049e+05 / 84
p0 1.919e−11 ± 1.795e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

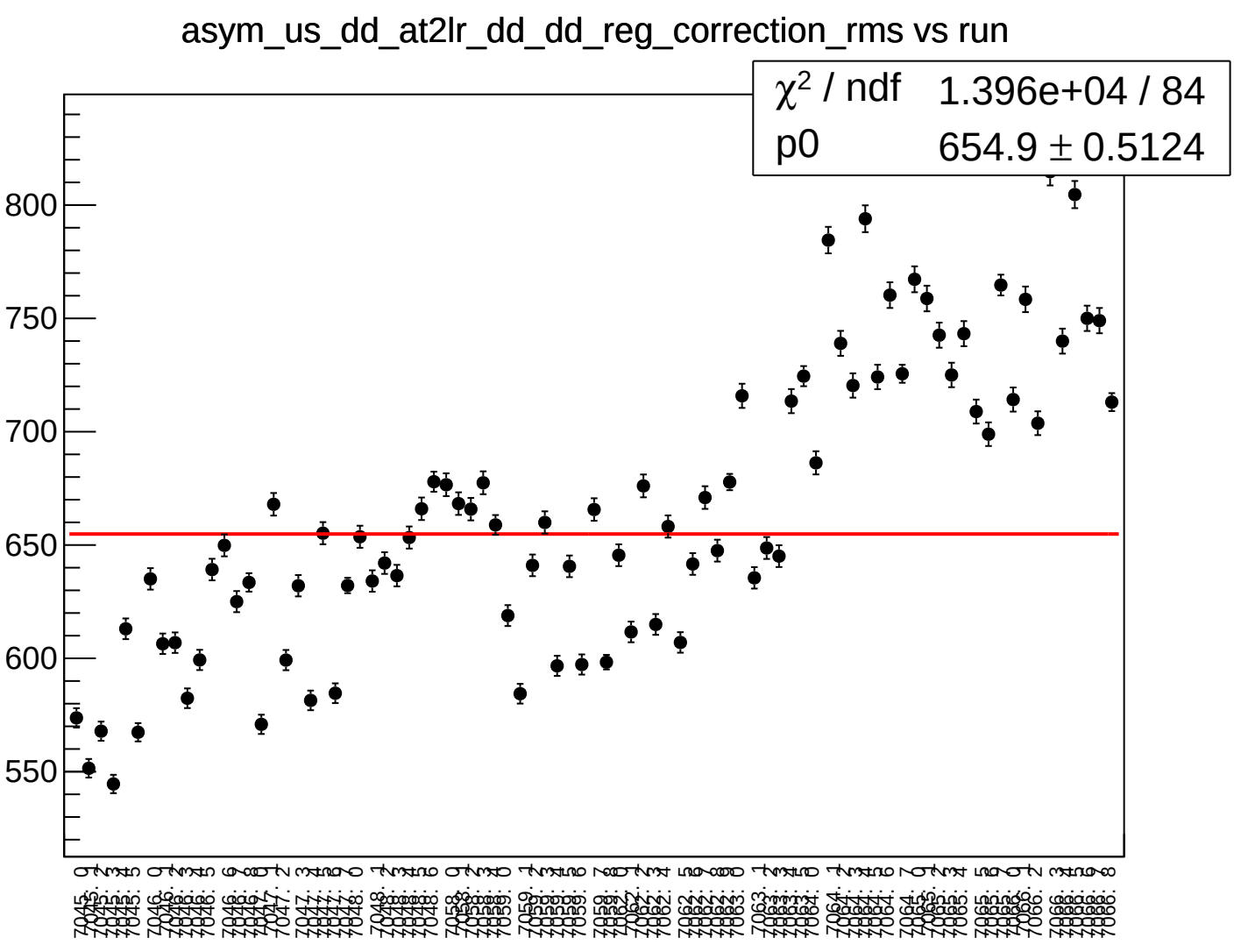

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 62.13 / 84
p0 −776.1± 1696
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −9.068
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

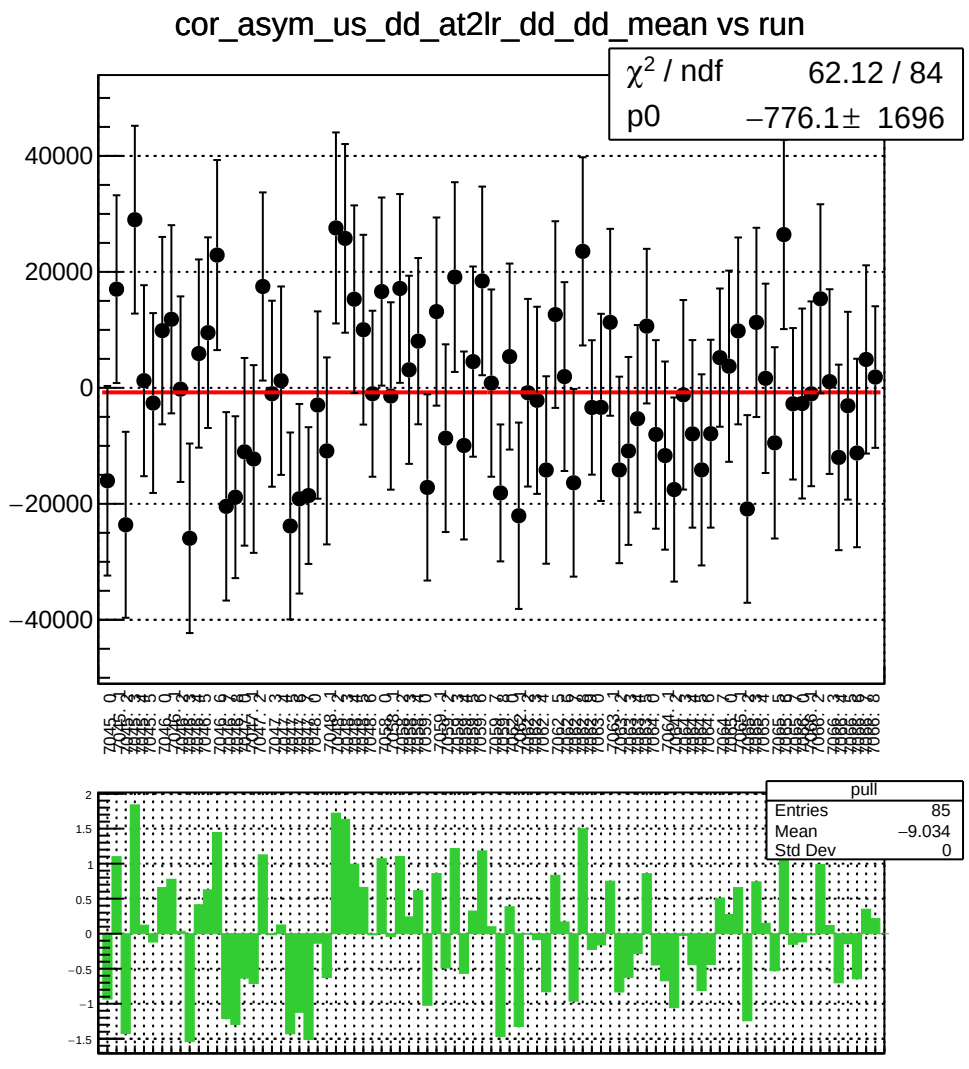

pull1D
Entries 85
Mean 0.01261
Std Dev 0.8548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

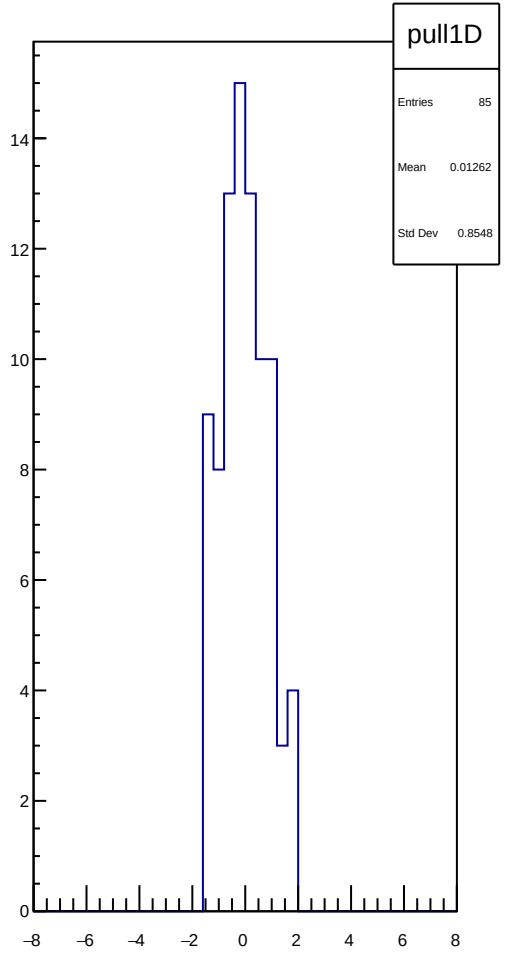

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 99.11 / 84
p0 1539 ± 1.2
1580
1570
1560
1550
1540
1530
1520
1510
1500
1490

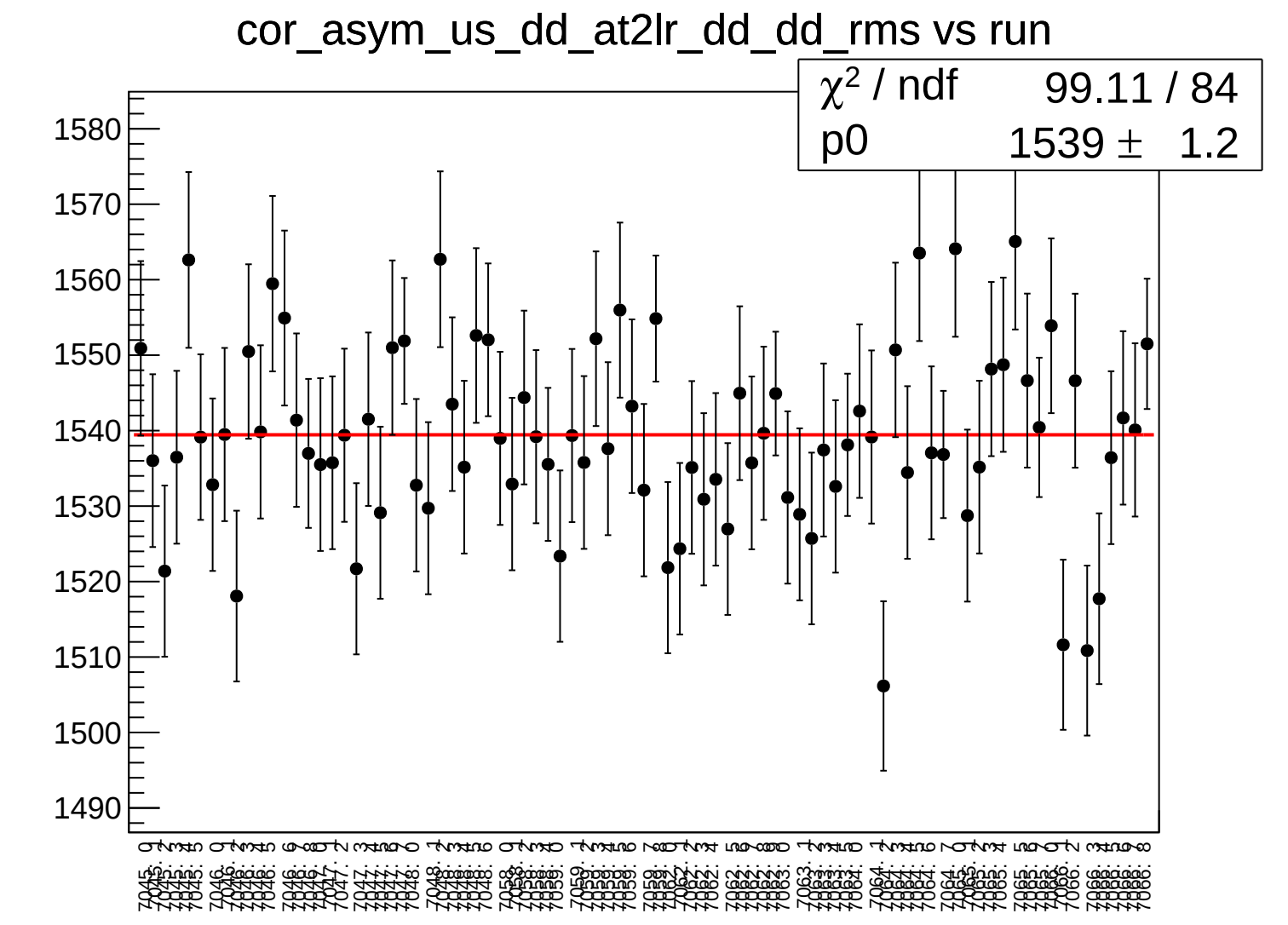

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.83 / 84
p0 613.7 ± 724.7
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 278.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

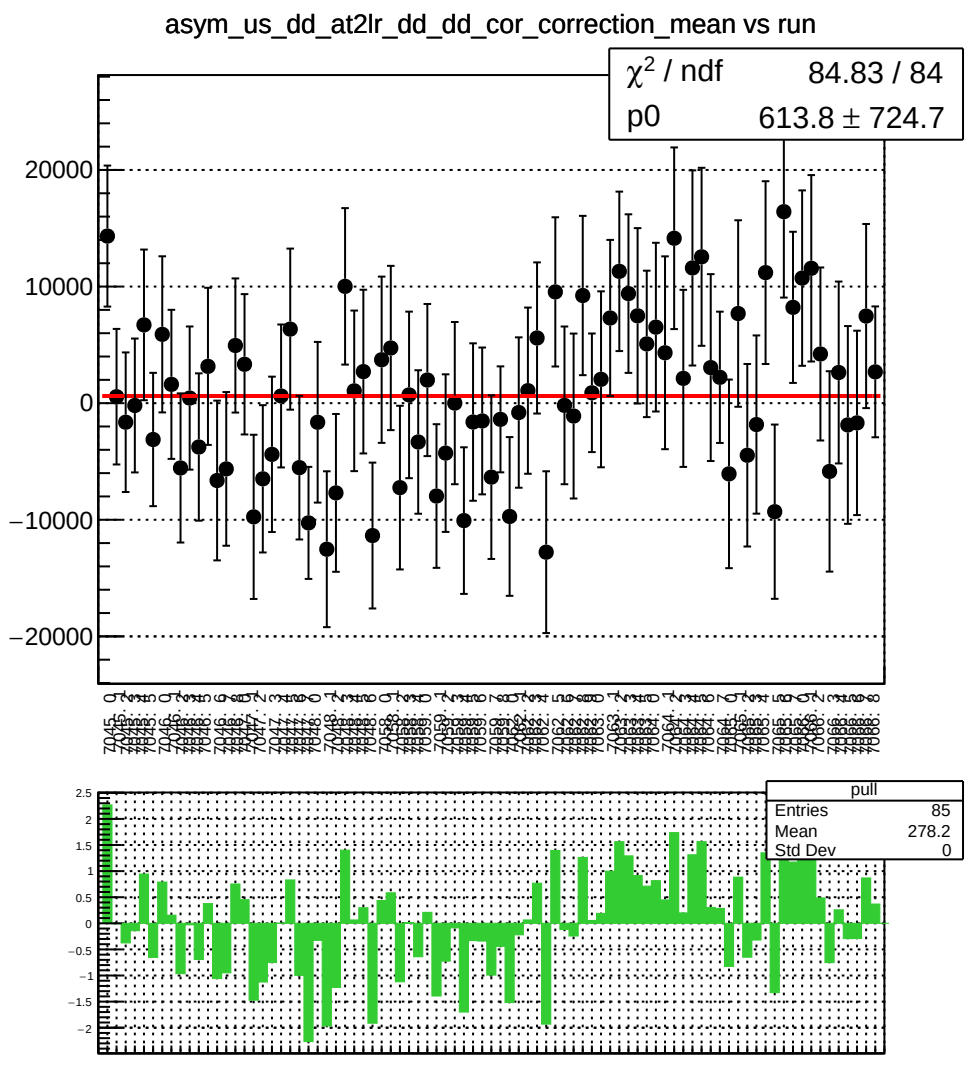

pull1D
Entries 85
Mean 0.02992
Std Dev 0.9986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

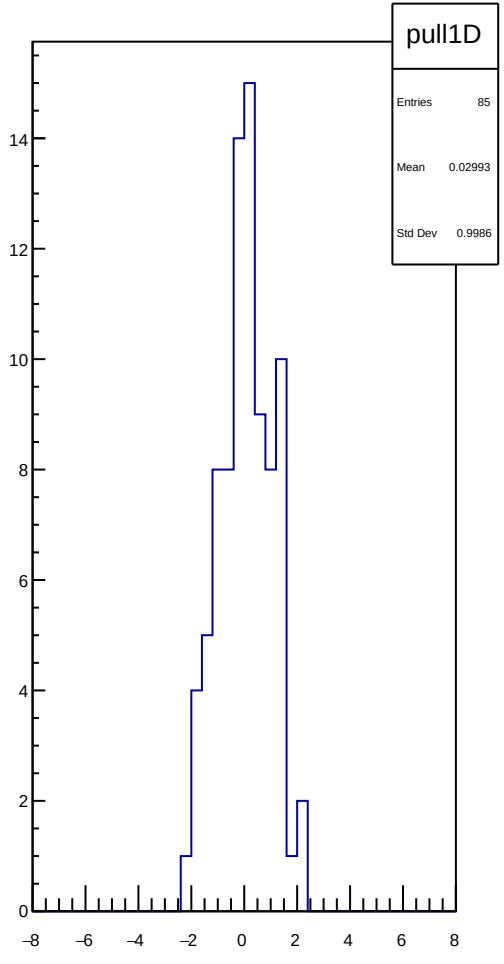

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.396e+04 / 84
p0 654.9 ± 0.5124
800
750
700
650
600
550

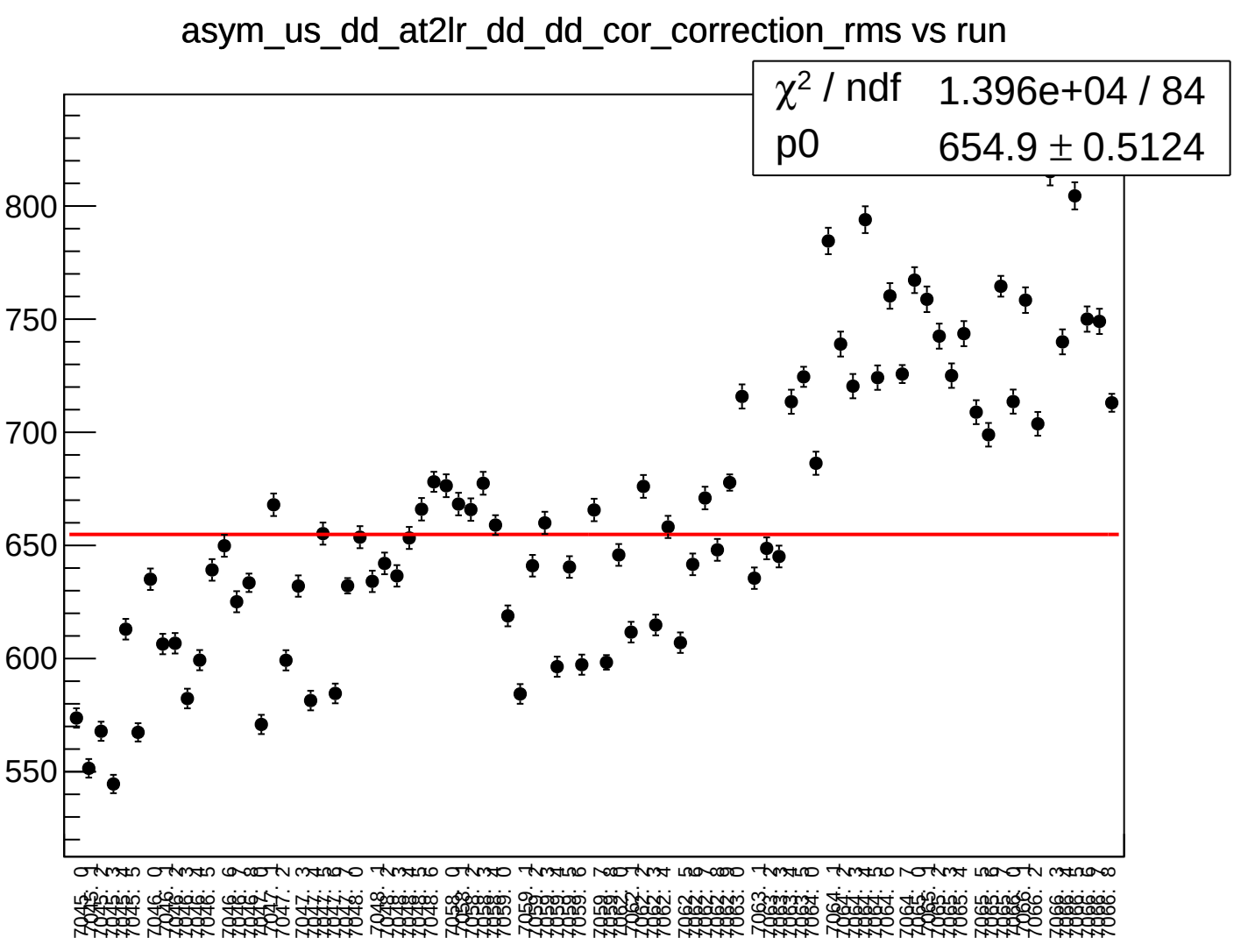

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 62.12 / 84
p0 −776.1± 1696
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −9.034
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

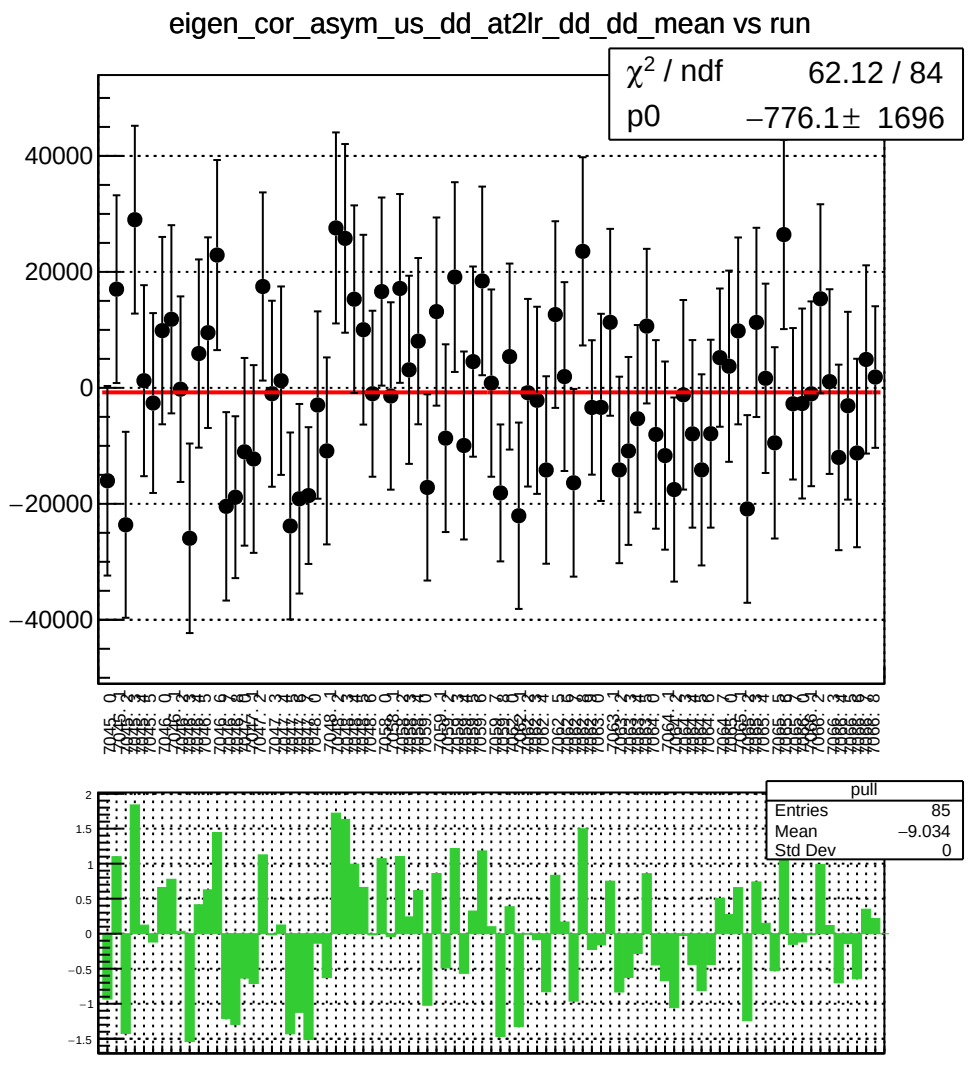

pull1D
Entries 85
Mean 0.01262
Std Dev 0.8548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

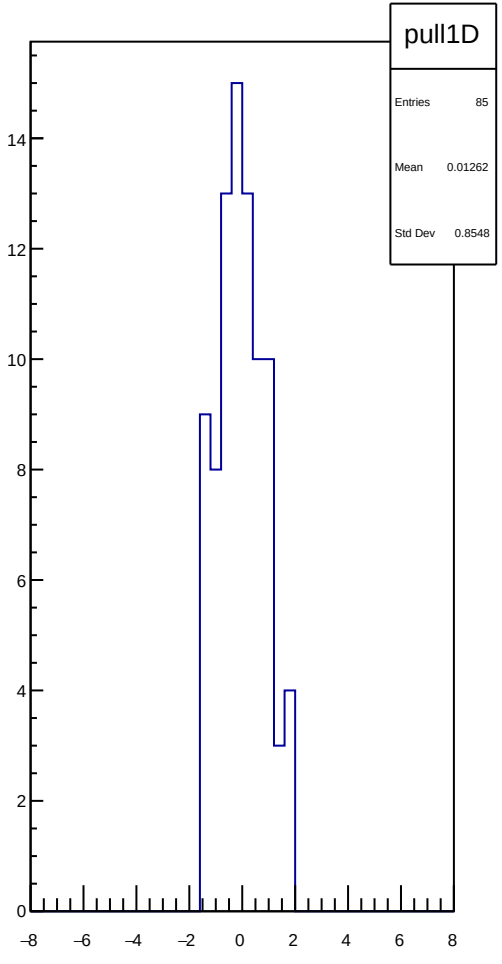

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 99.11 / 84
p0 1539 ± 1.2
1580
1570
1560
1550
1540
1530
1520
1510
1500
1490

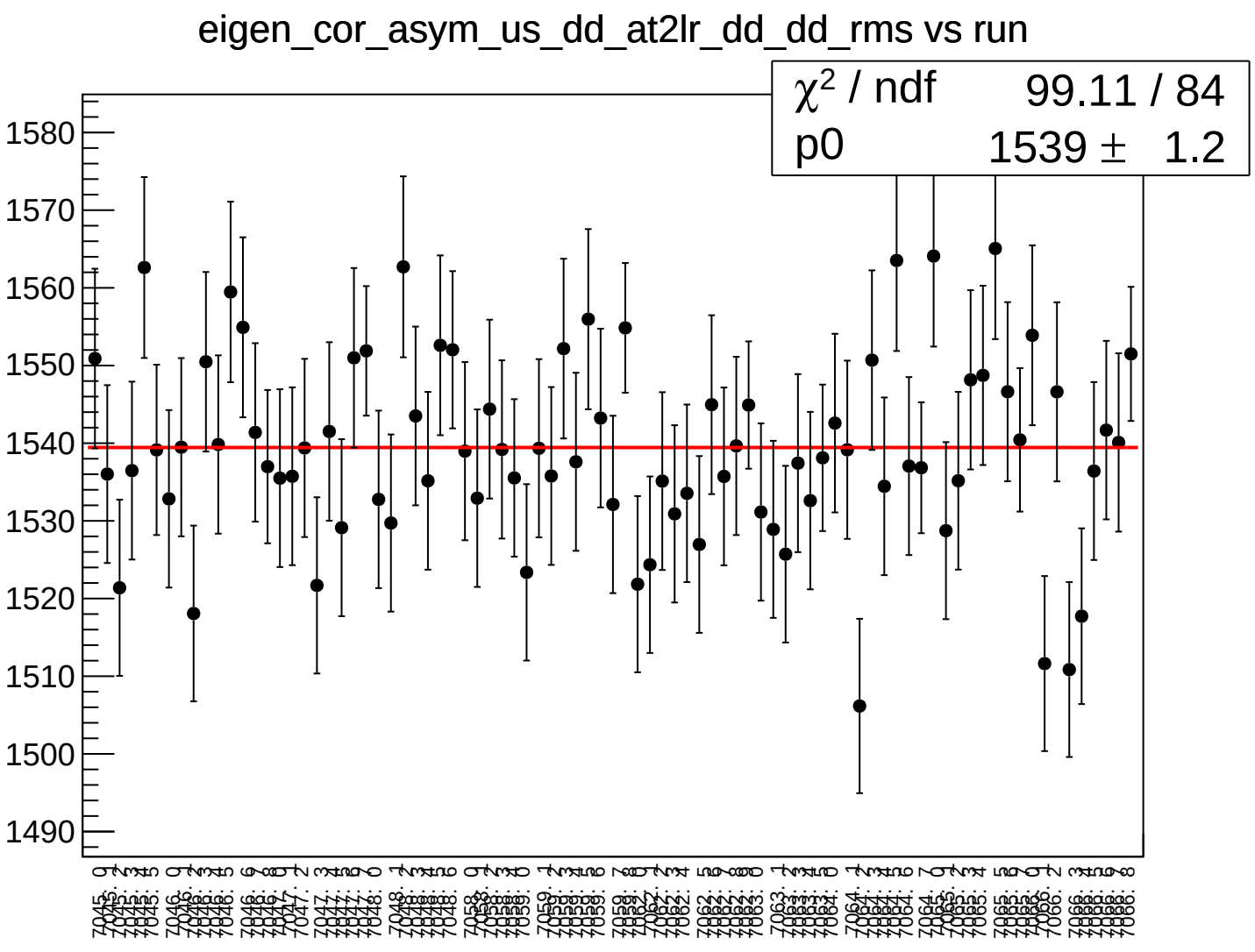

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.83 / 84
p0 613.8 ± 724.7
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 278.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

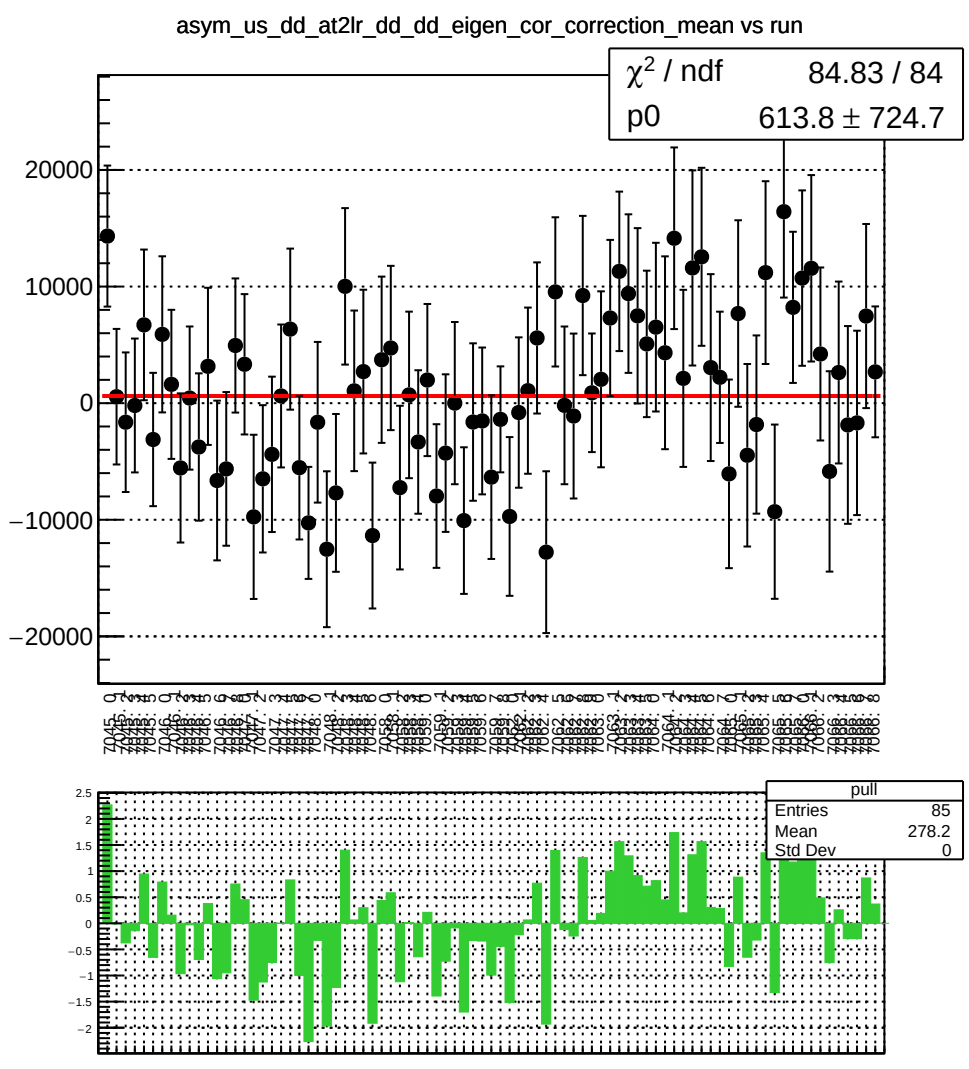

pull1D
Entries 85
Mean 0.02993
Std Dev 0.9986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

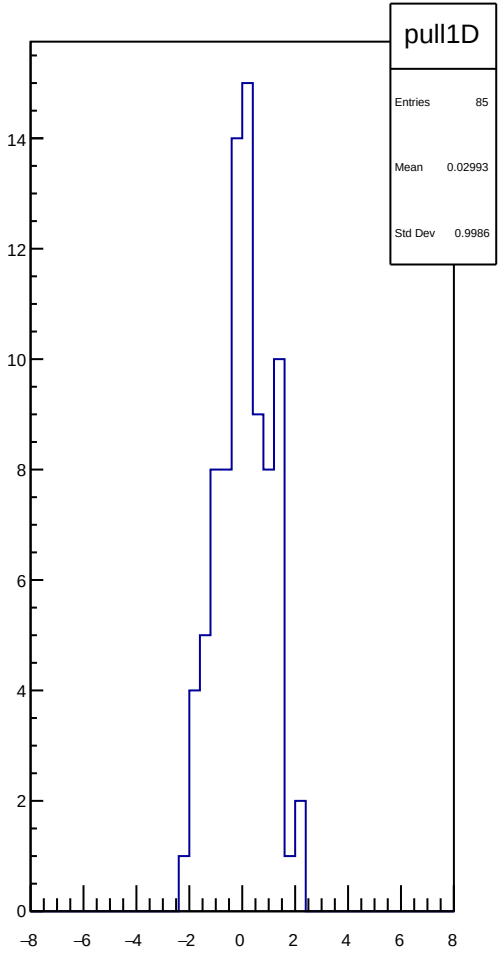

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.396e+04 / 84
p0 654.9 ± 0.5124
800
750
700
650
600
550

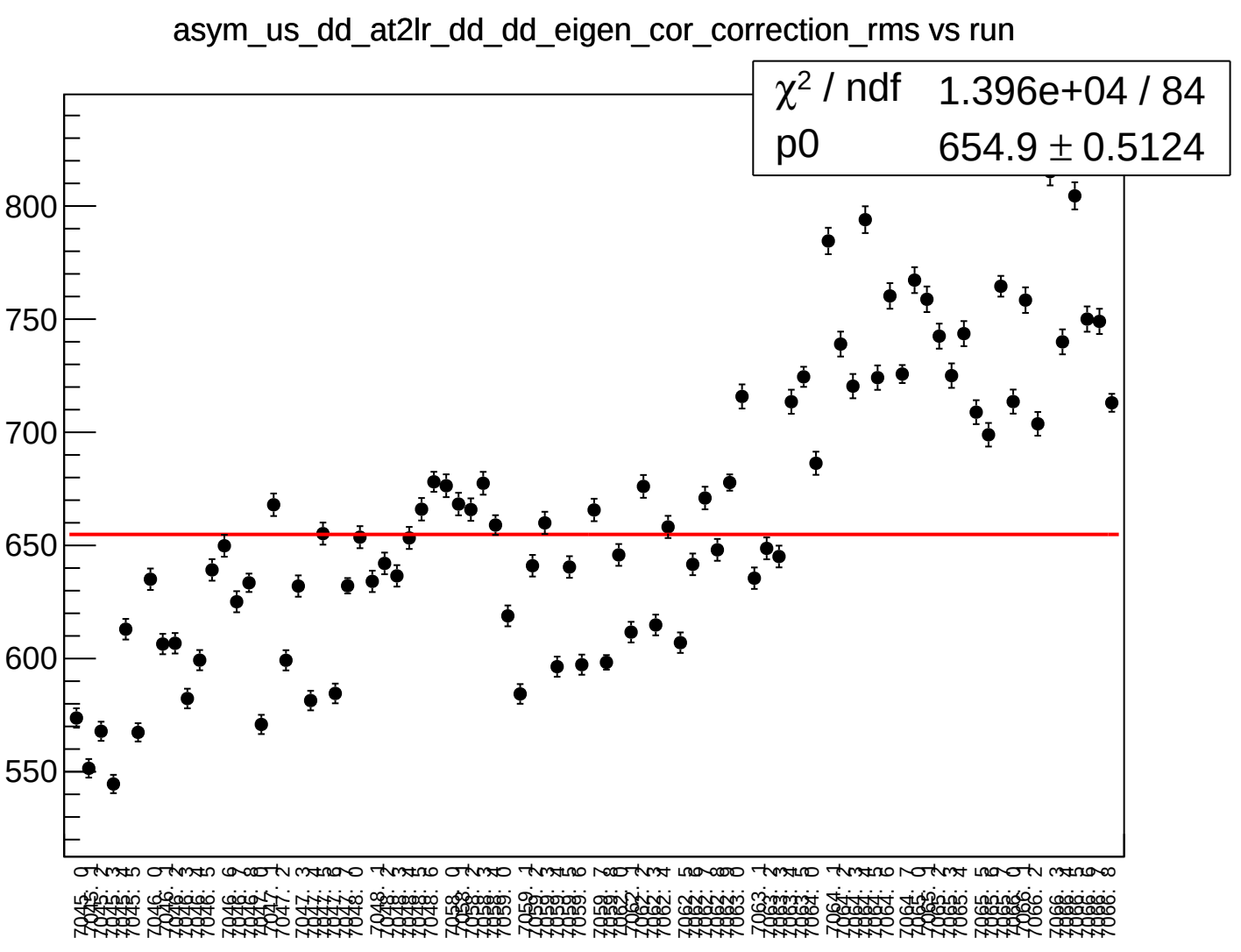

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 62.12 / 84
p0 −776.1± 1696
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −9.034
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

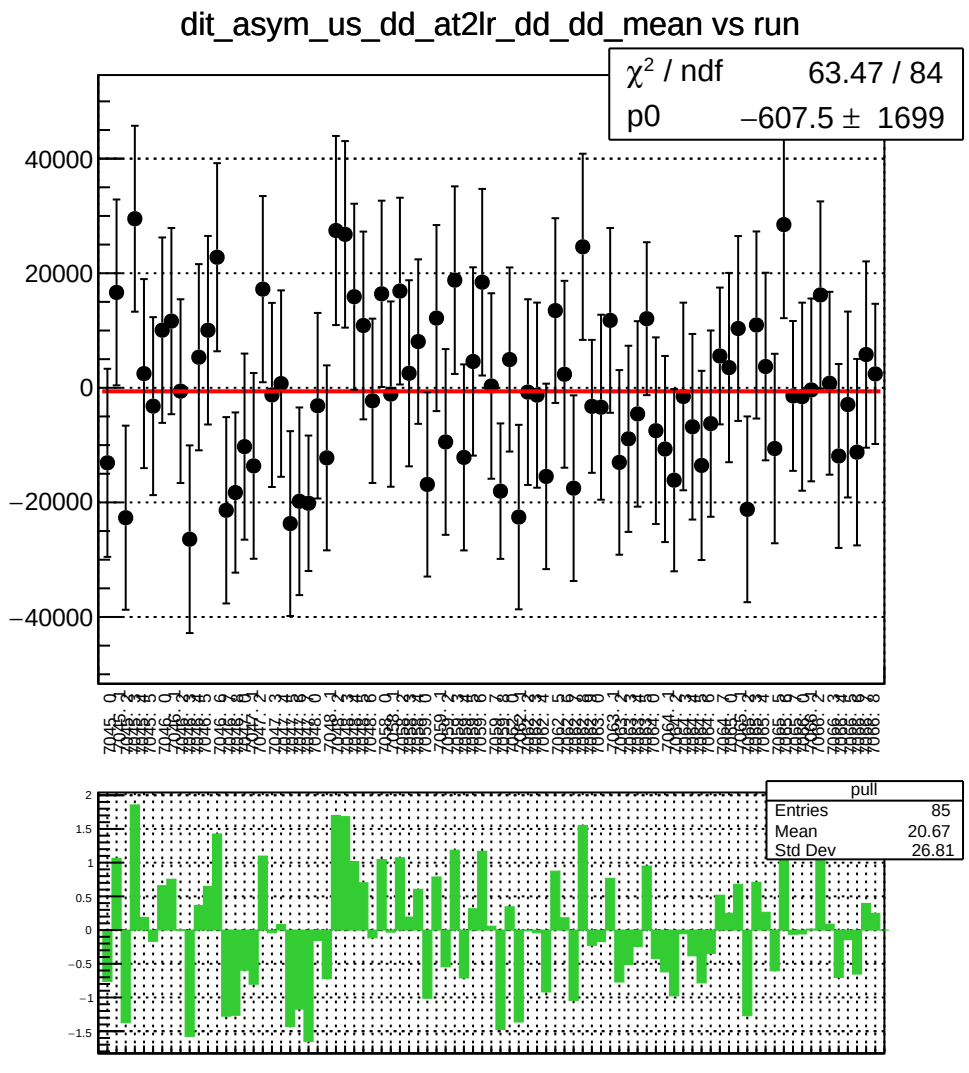

pull1D
Entries 85
Mean 0.01262
Std Dev 0.8548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

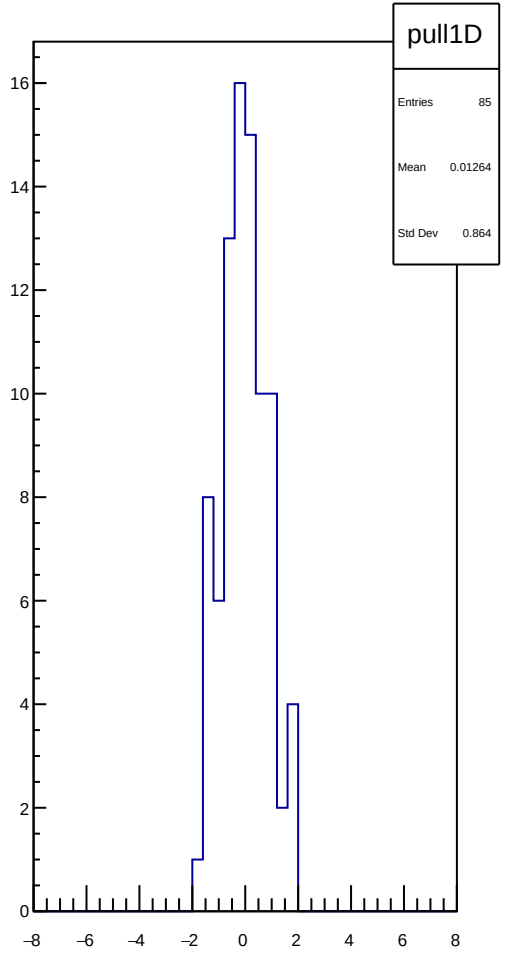

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 99.11 / 84
p0 1539 ± 1.2
1580
1570
1560
1550
1540
1530
1520
1510
1500
1490

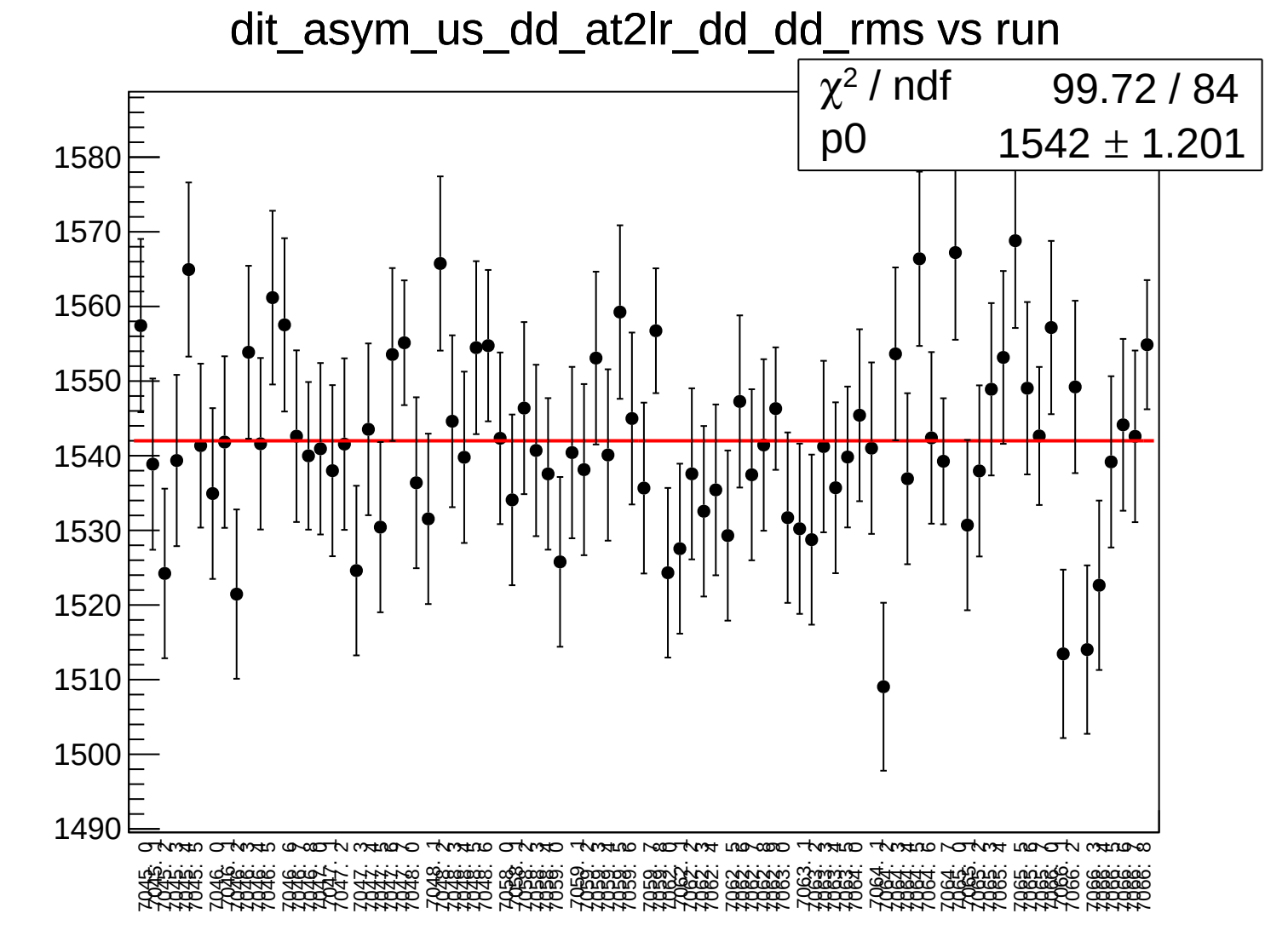

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.83 / 84
p0 613.8 ± 724.7
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 278.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

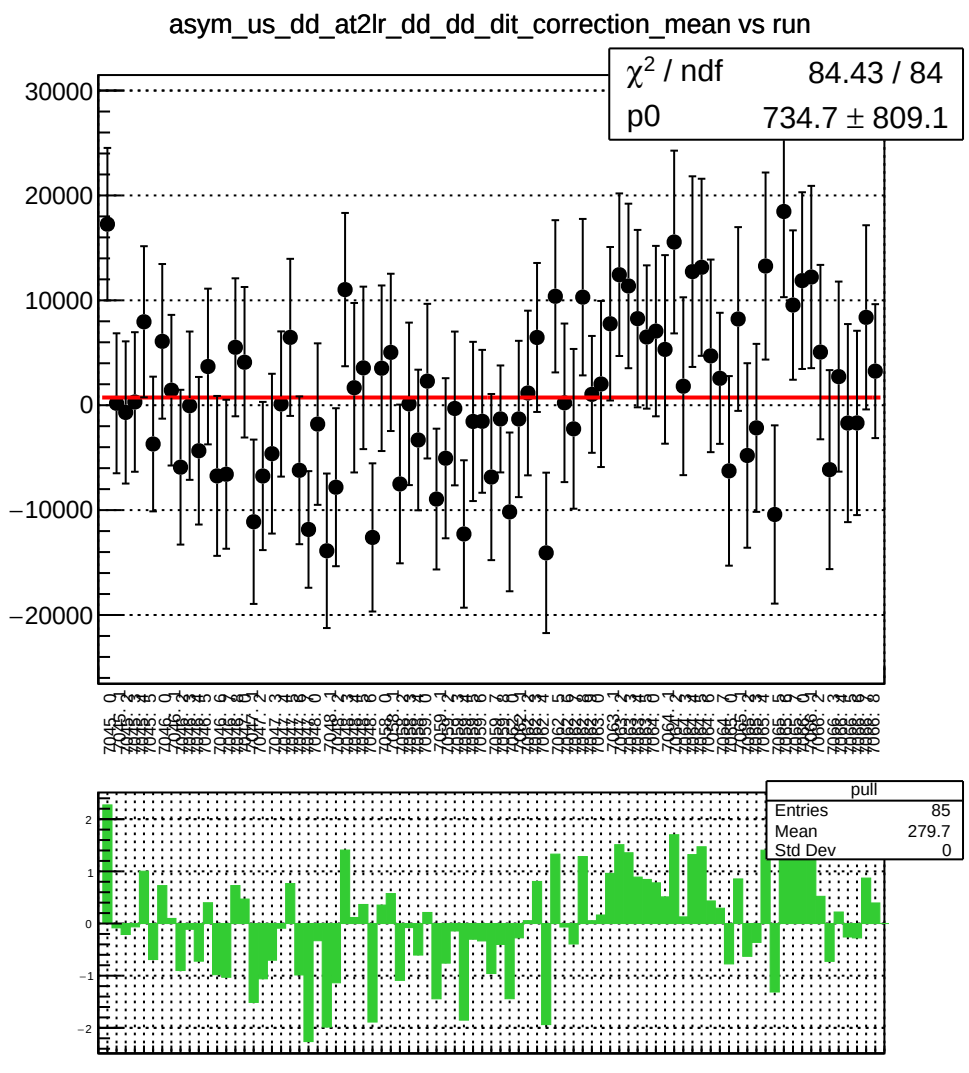

pull1D
Entries 85
Mean 0.02993
Std Dev 0.9986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

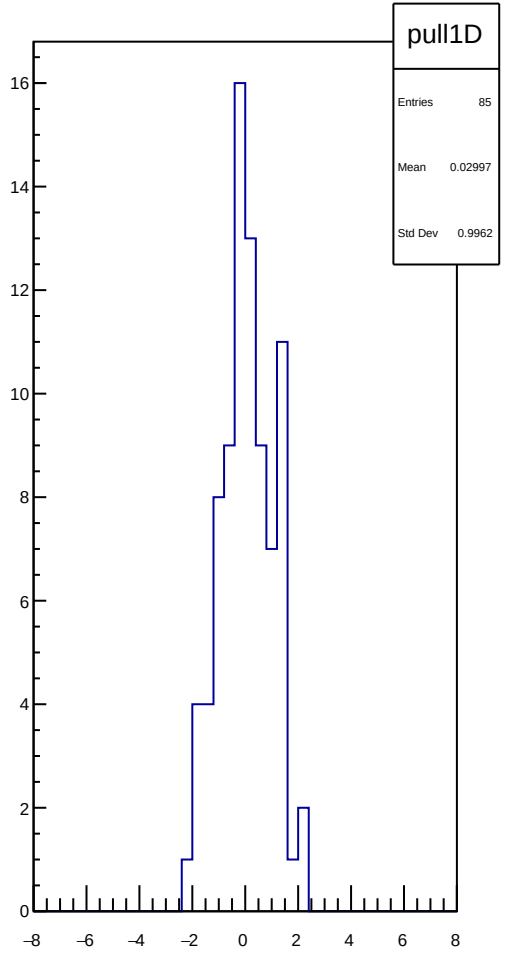

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.396e+04 / 84
p0 654.9 ± 0.5124
800
750
700
650
600
550

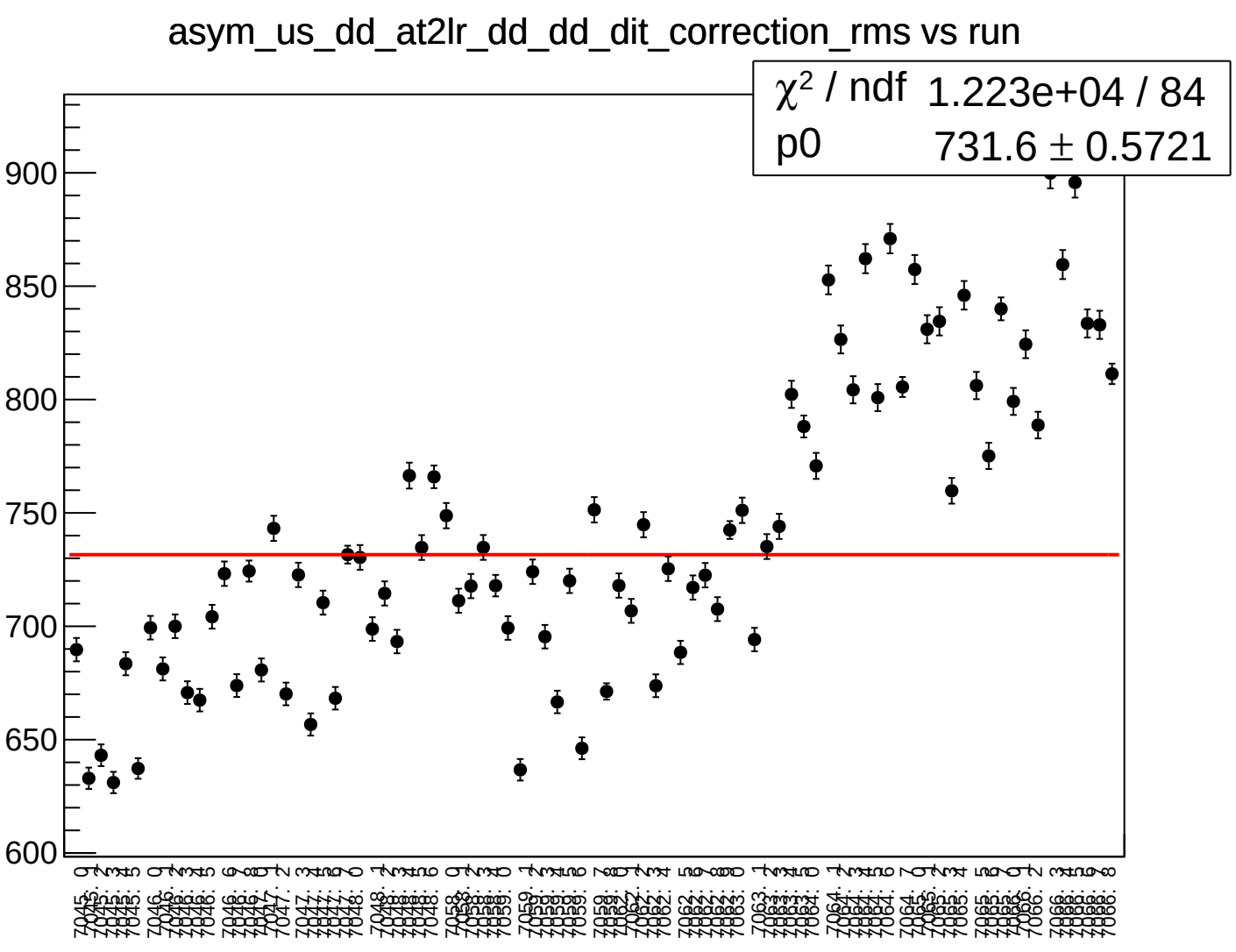

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 63.47 / 84
p0 −607.5 ± 1699
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 20.67
Std Dev 26.81
2
1.5
1
0.5
0
−0.5
−1
−1.5

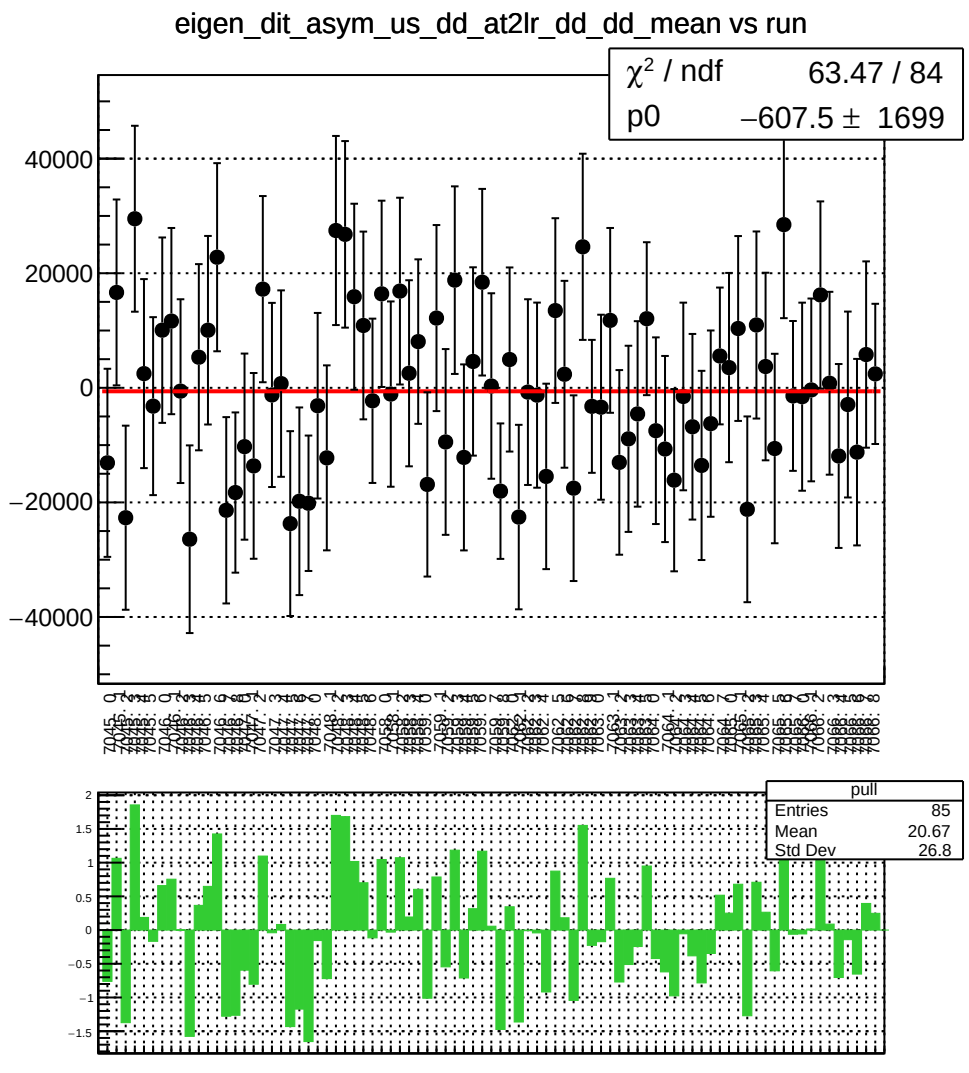

pull1D
Entries 85
Mean 0.01264
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

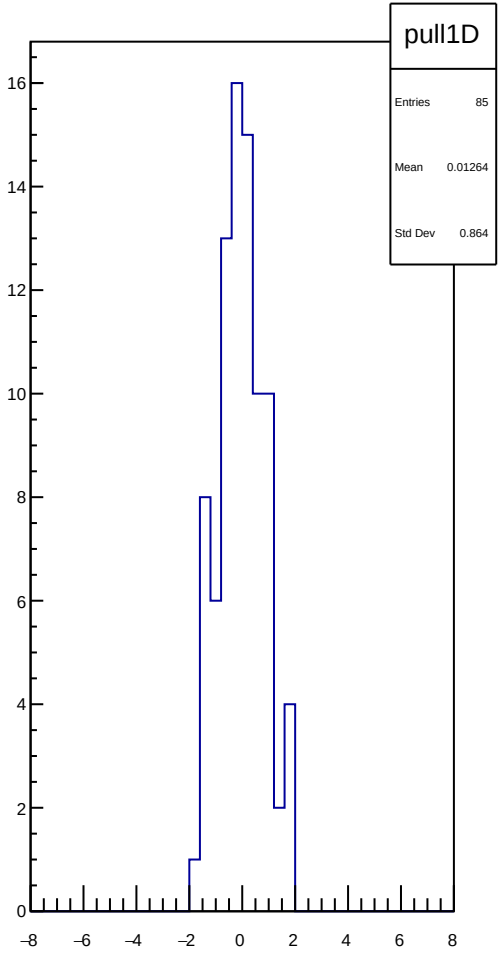

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 99.72 / 84
p0 1542 ± 1.201
1580
1570
1560
1550
1540
1530
1520
1510
1500
1490

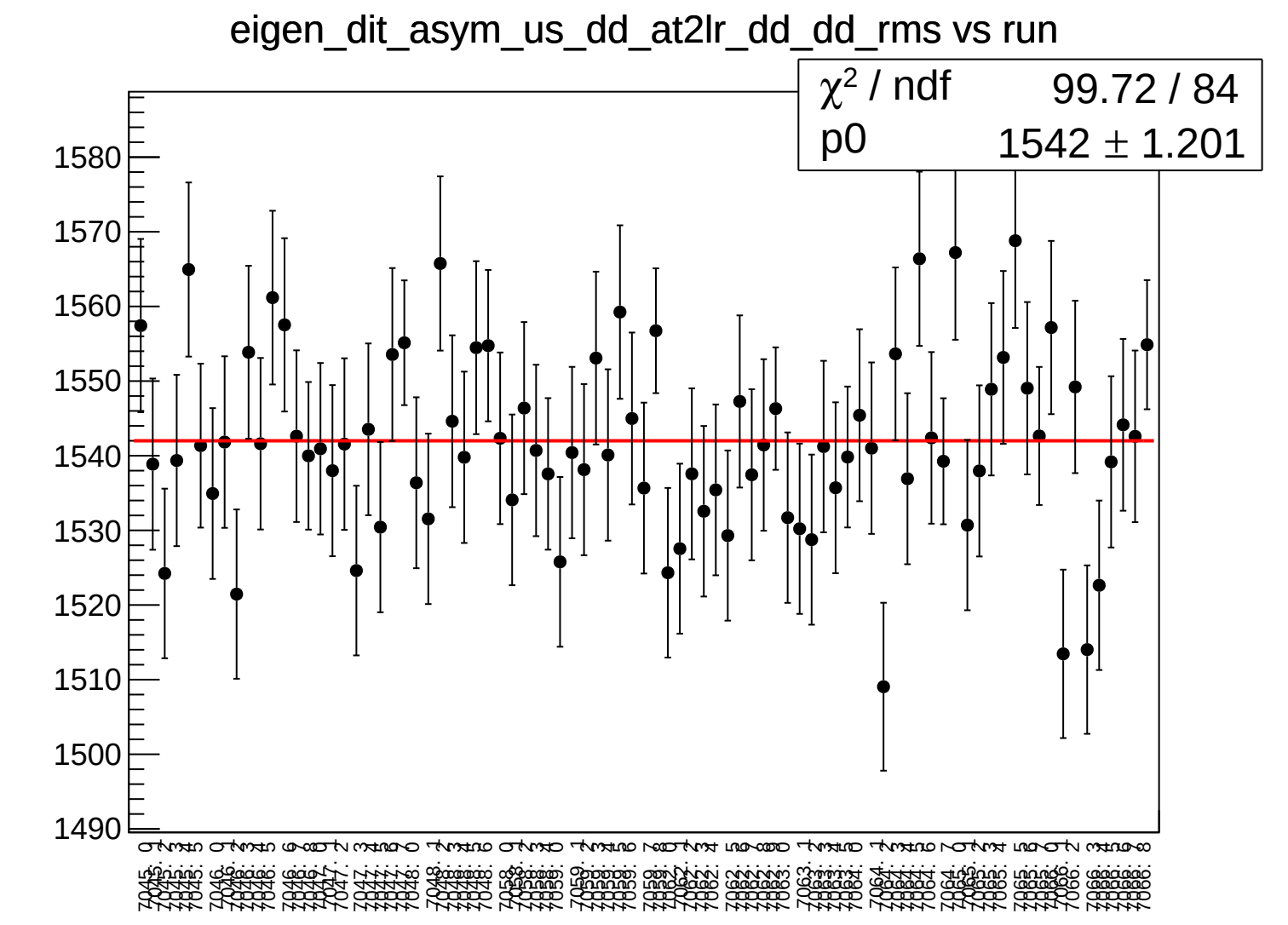

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.43 / 84
p0 734.7 ± 809.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 279.7
Std Dev 0
2
1
0
−1
−2

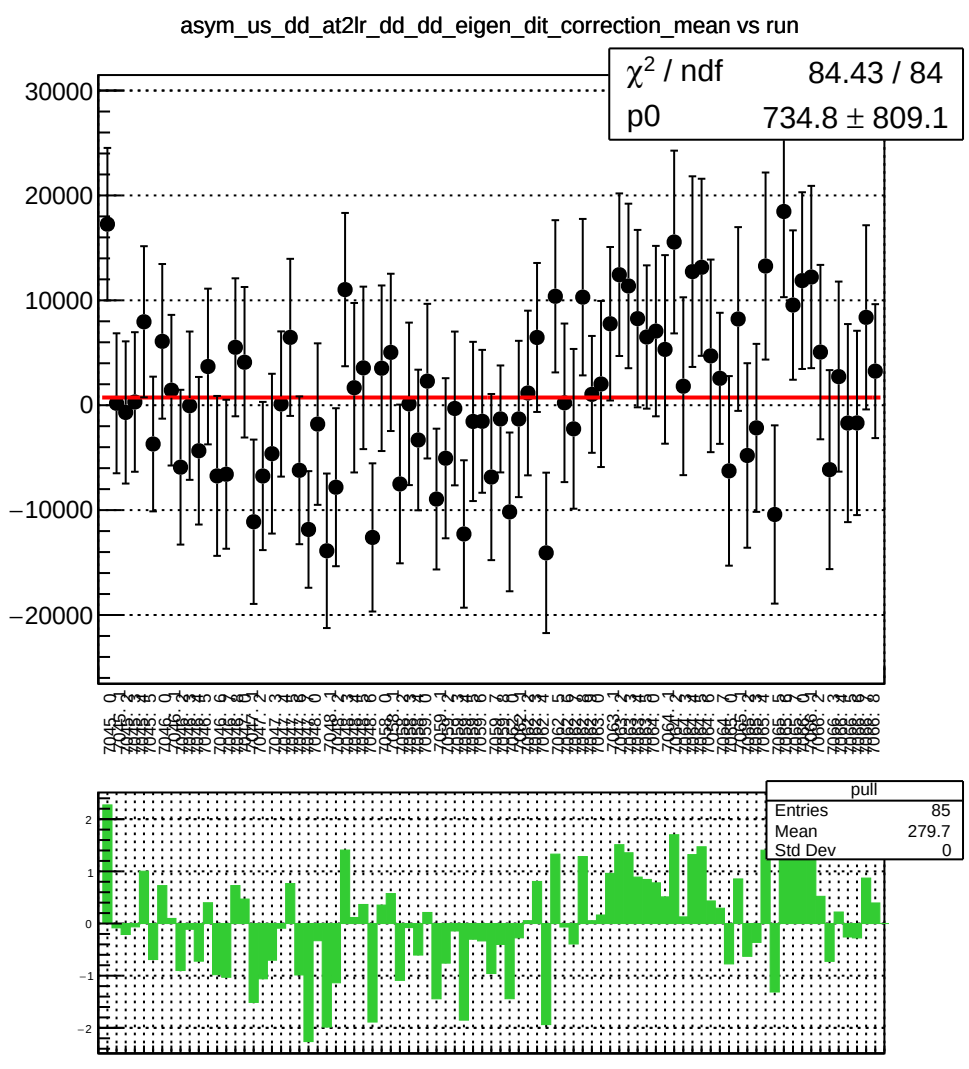

pull1D
Entries 85
Mean 0.02997
Std Dev 0.9962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

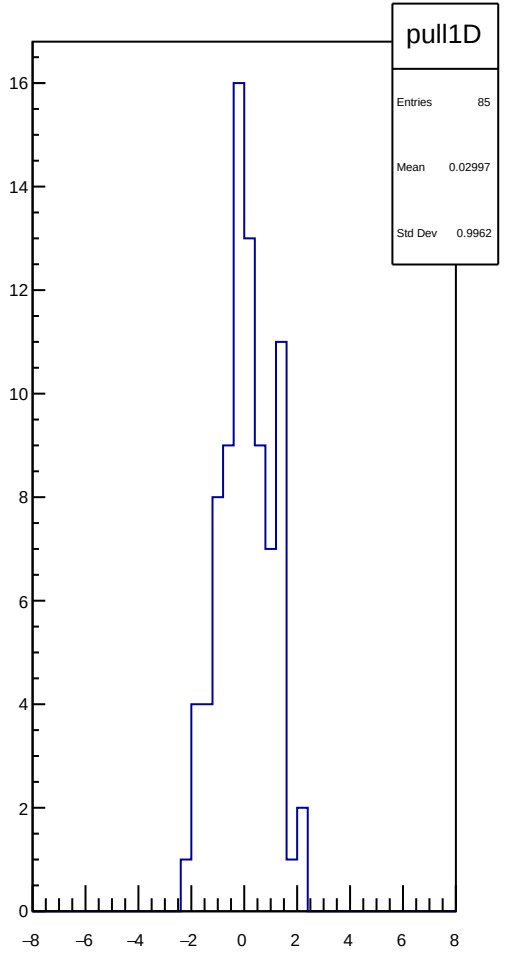

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.223e+04 / 84
p0 731.6 ± 0.5721
900
850
800
750
700
650
600

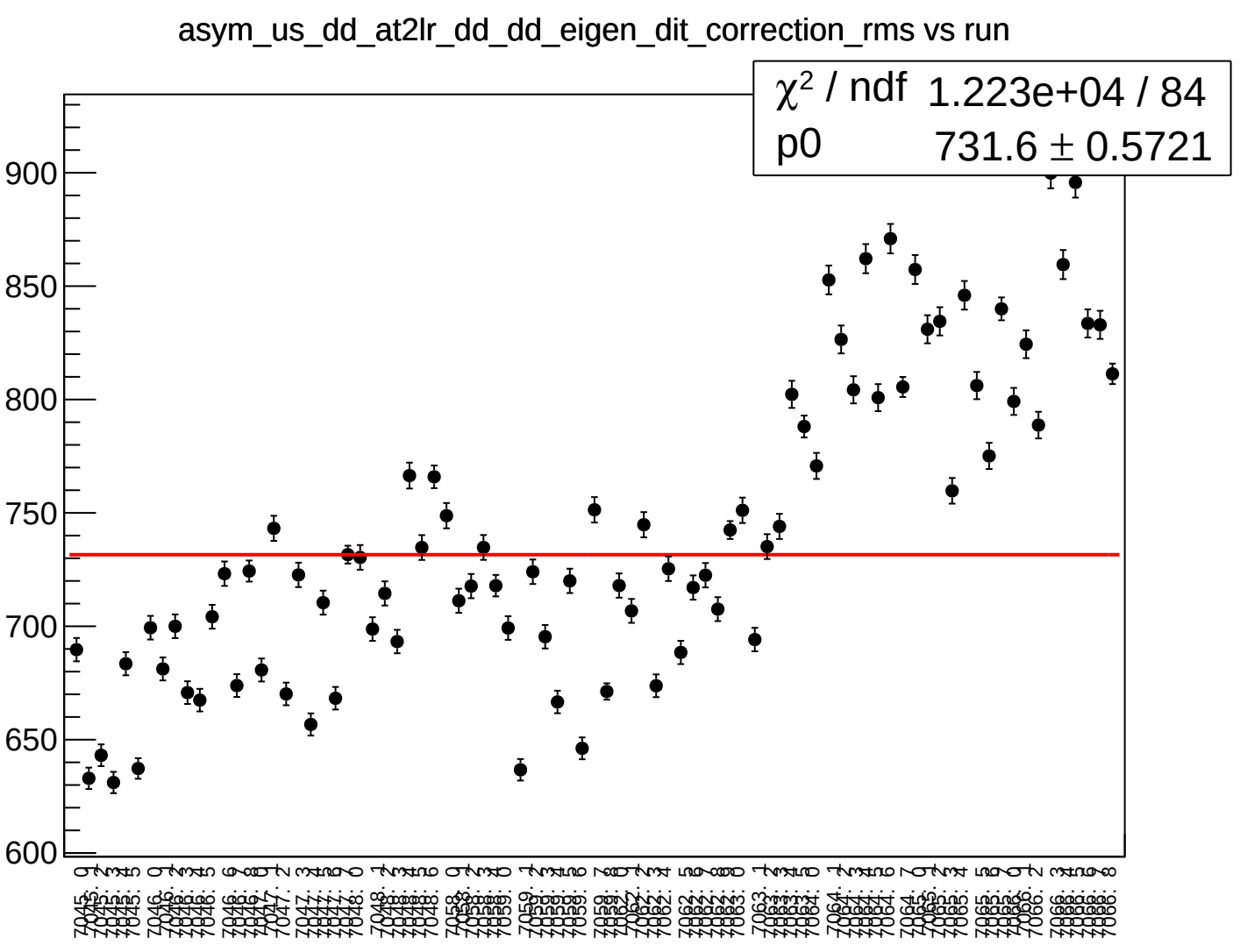

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 63.47 / 84
p0 −607.5 ± 1699
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 20.67
Std Dev 26.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

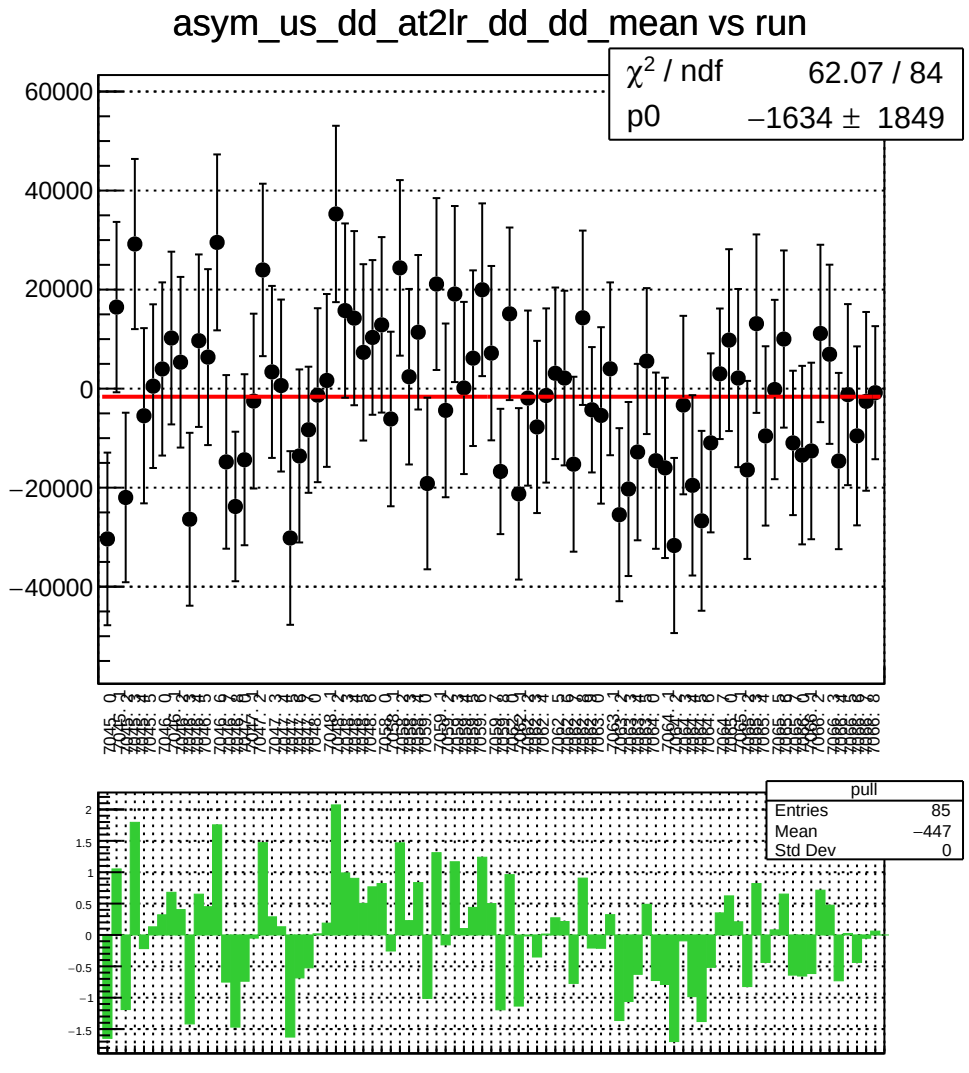

pull1D
Entries 85
Mean 0.01264
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

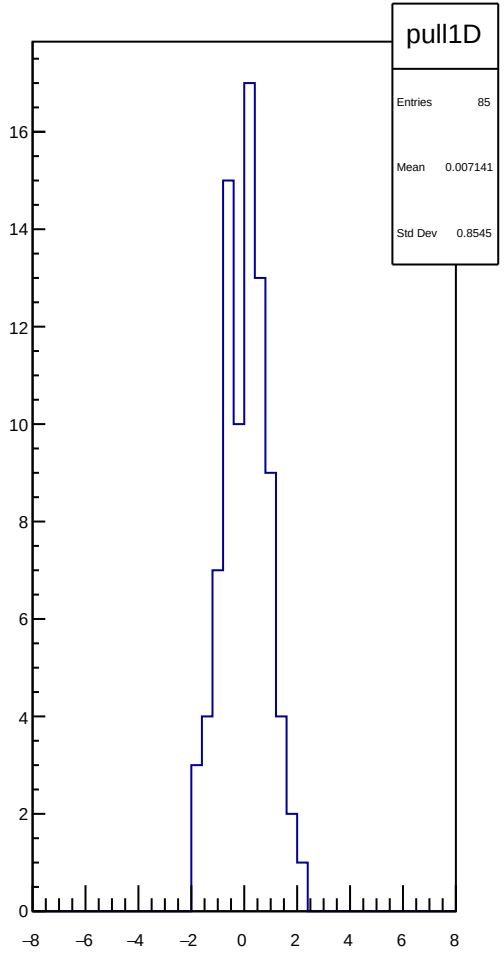

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 99.72 / 84
p0 1542 ± 1.201
1580
1570
1560
1550
1540
1530
1520
1510
1500
1490

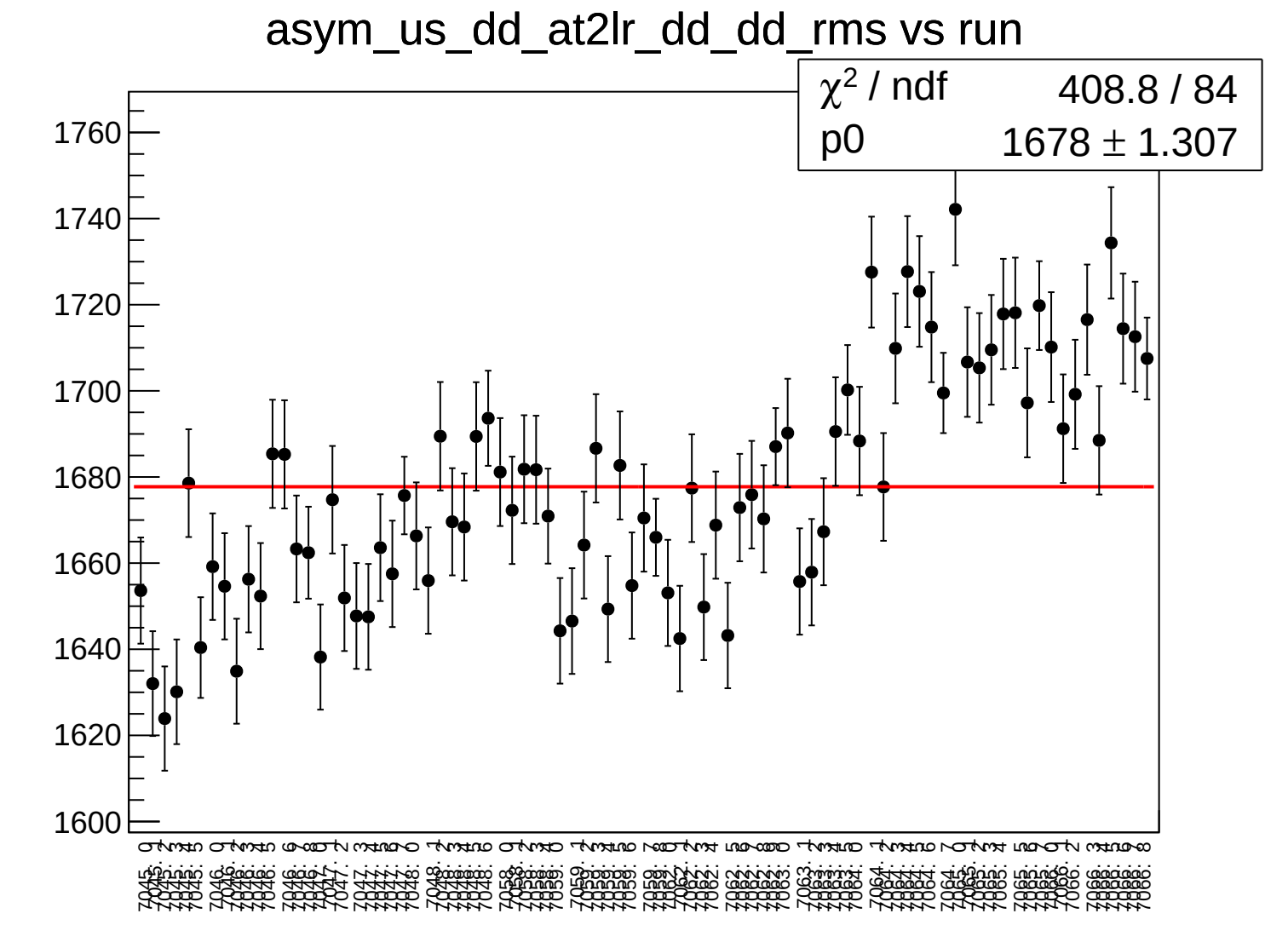

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.43 / 84
p0 734.8 ± 809.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 279.7
Std Dev 0
2
1
0
−1
−2

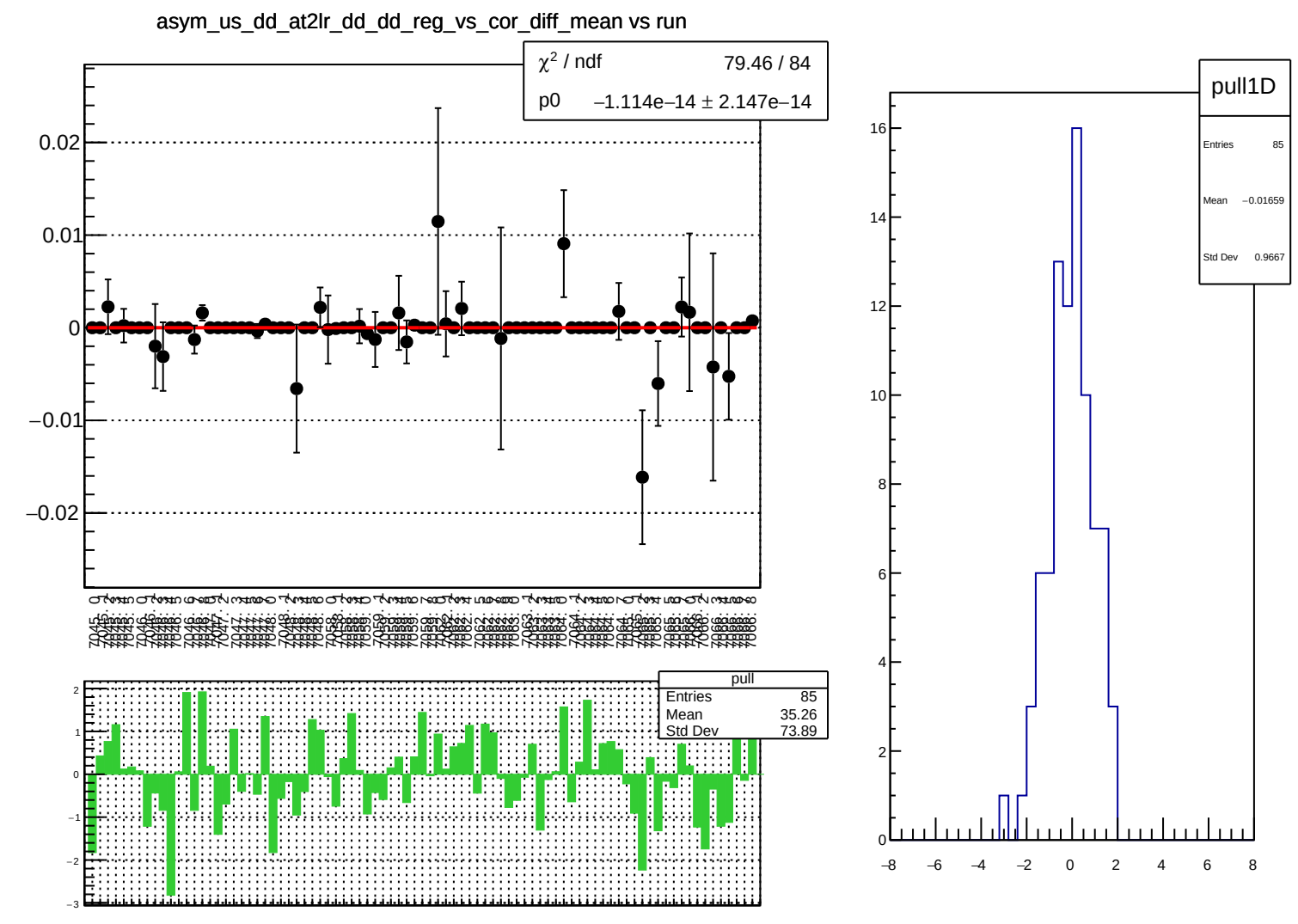

pull1D
Entries 85
Mean 0.02997
Std Dev 0.9962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

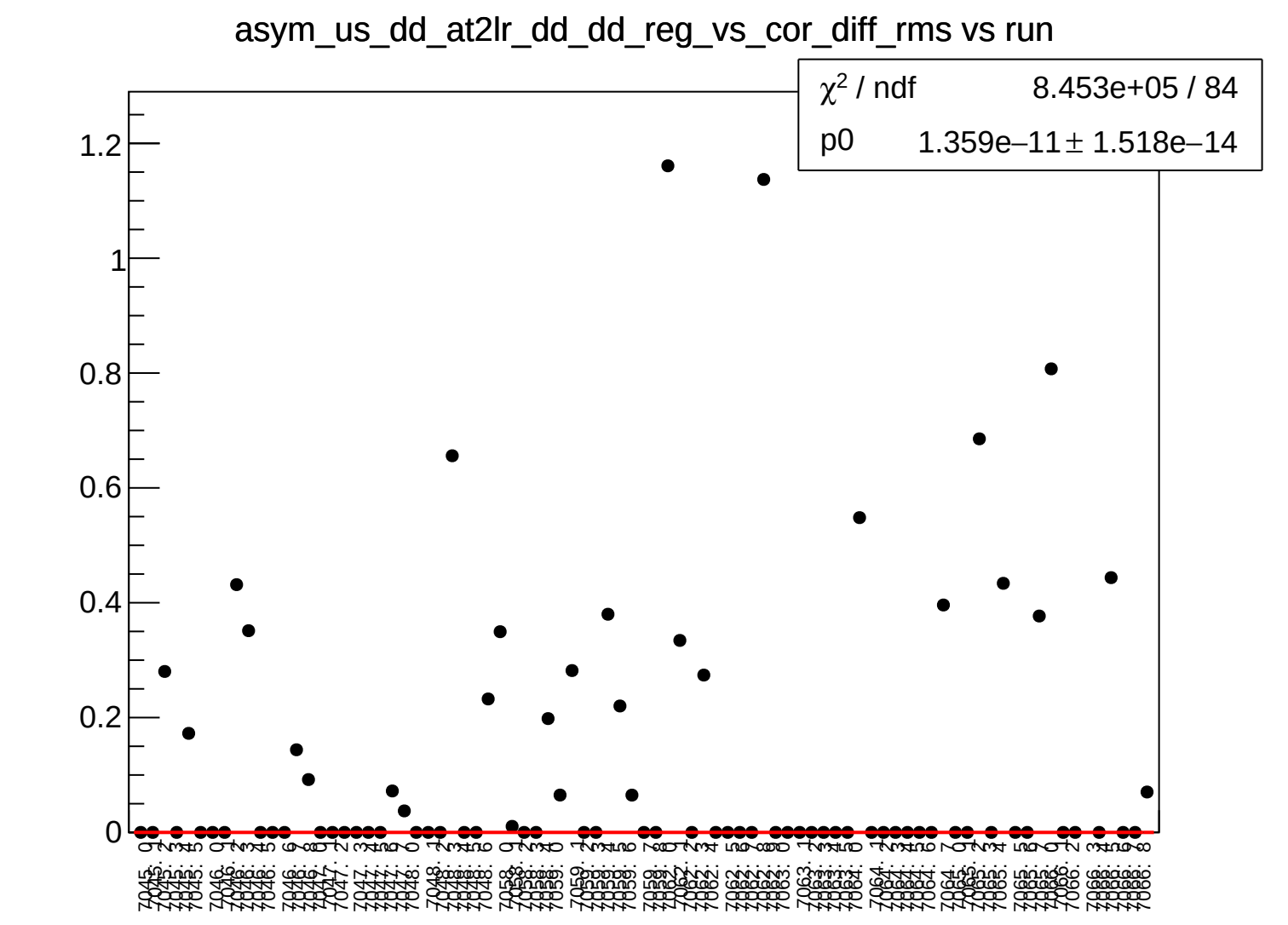

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.223e+04 / 84
p0 731.6 ± 0.5721
900
850
800
750
700
650
600

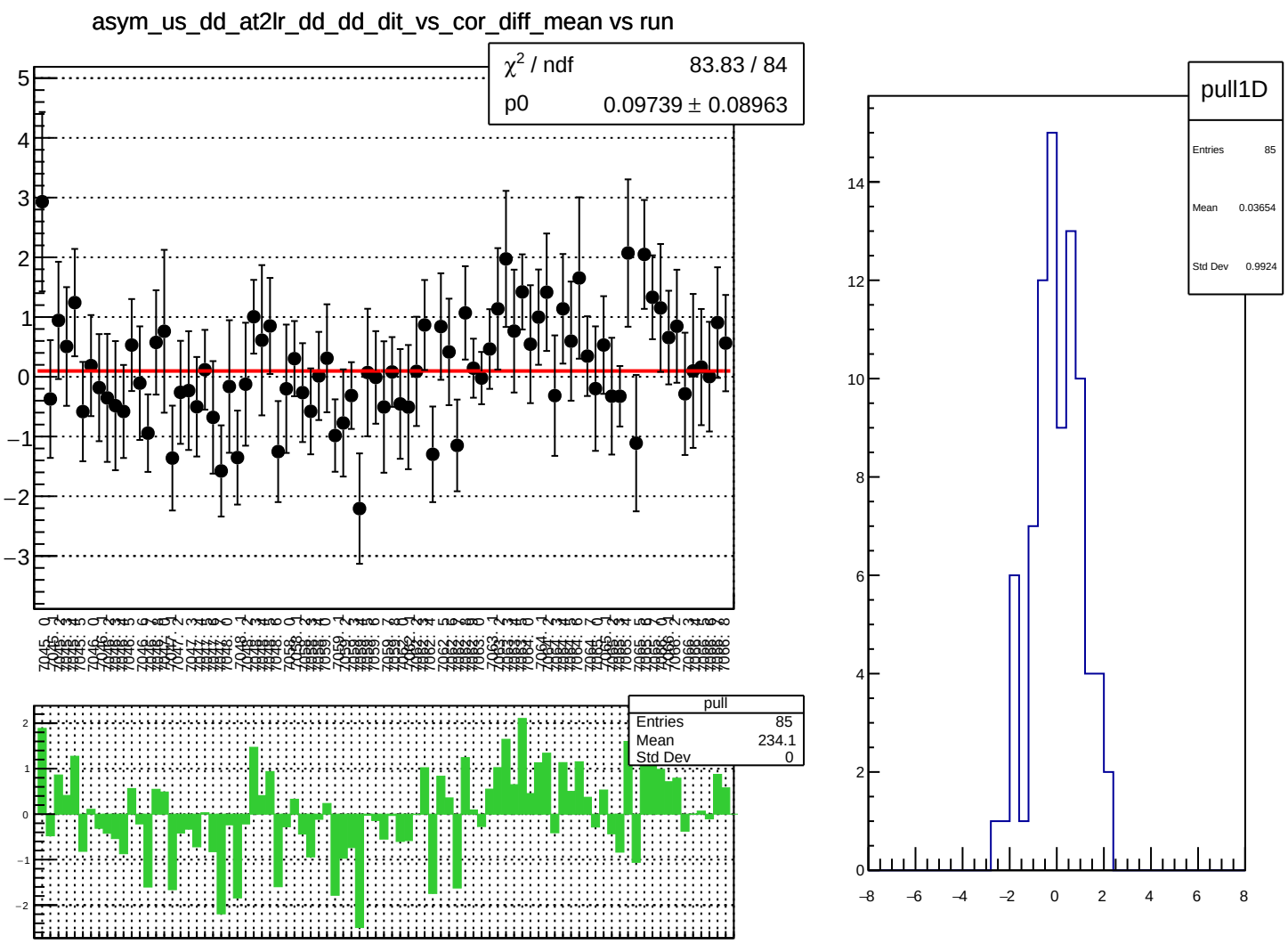

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 62.07 / 84
p0 −1634 ± 1849
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −447
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

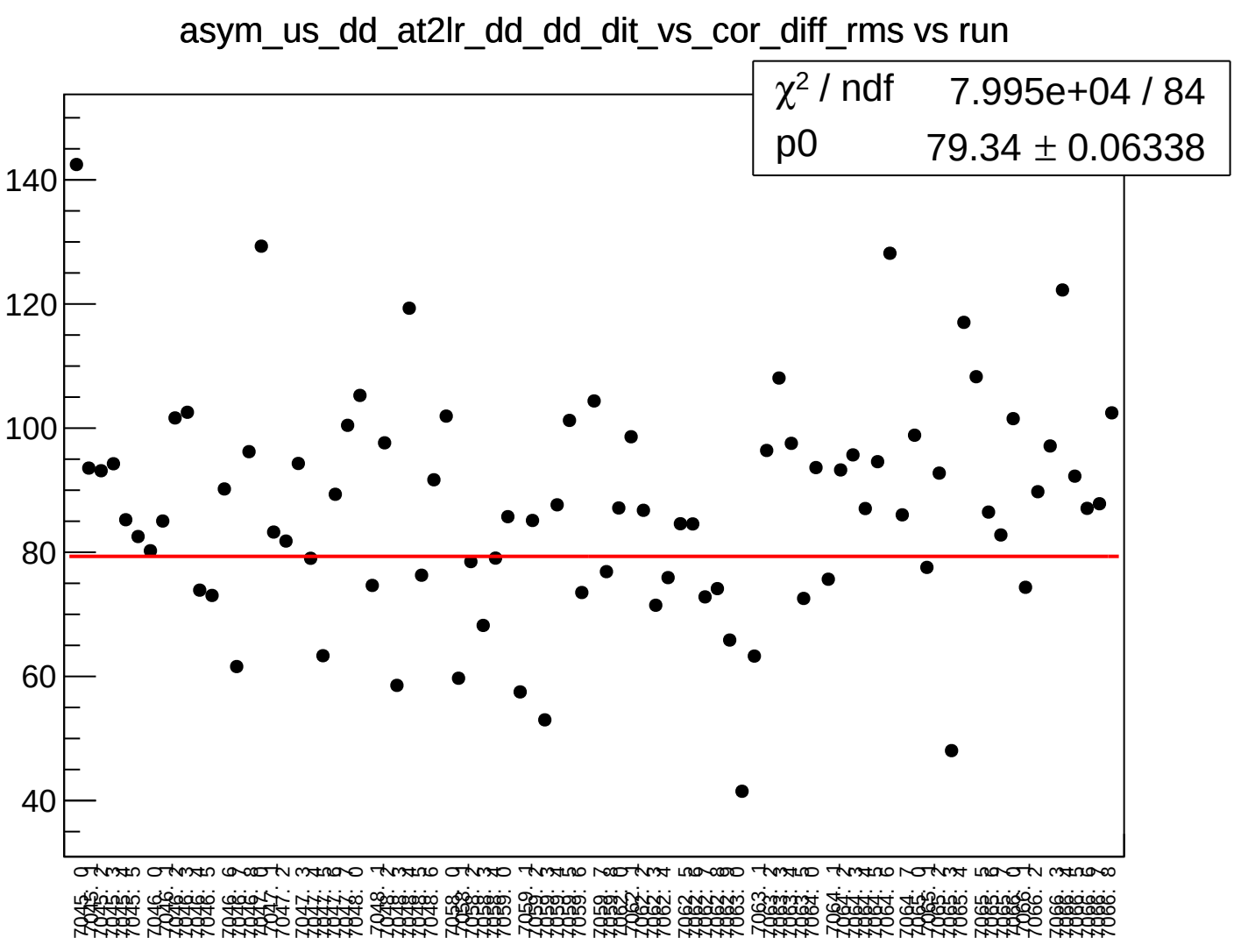

pull1D
Entries 85
Mean 0.007141
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

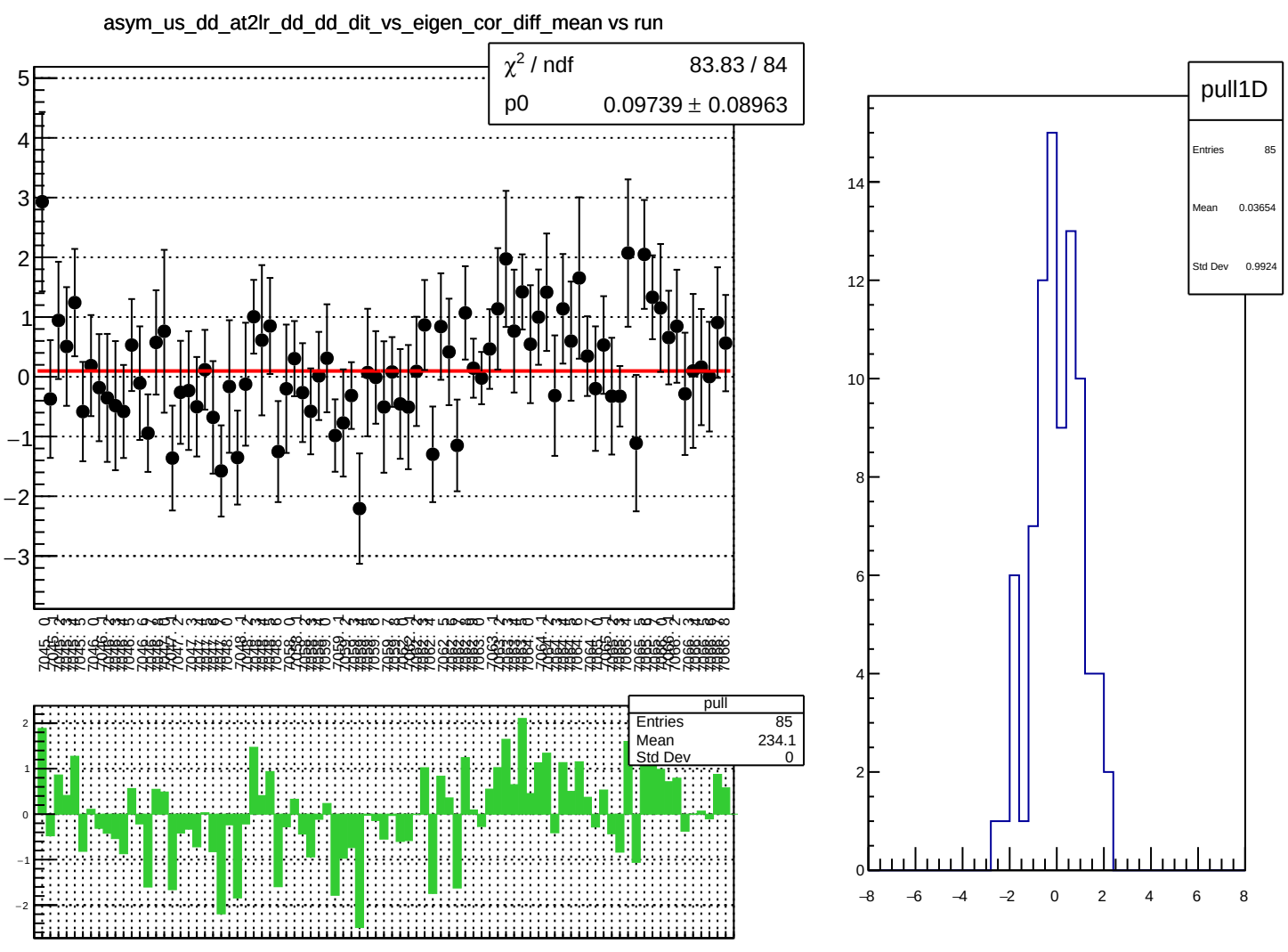

asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 408.8 / 84
p0 1678 ± 1.307
1760
1740
1720
1700
1680
1660
1640
1620
1600

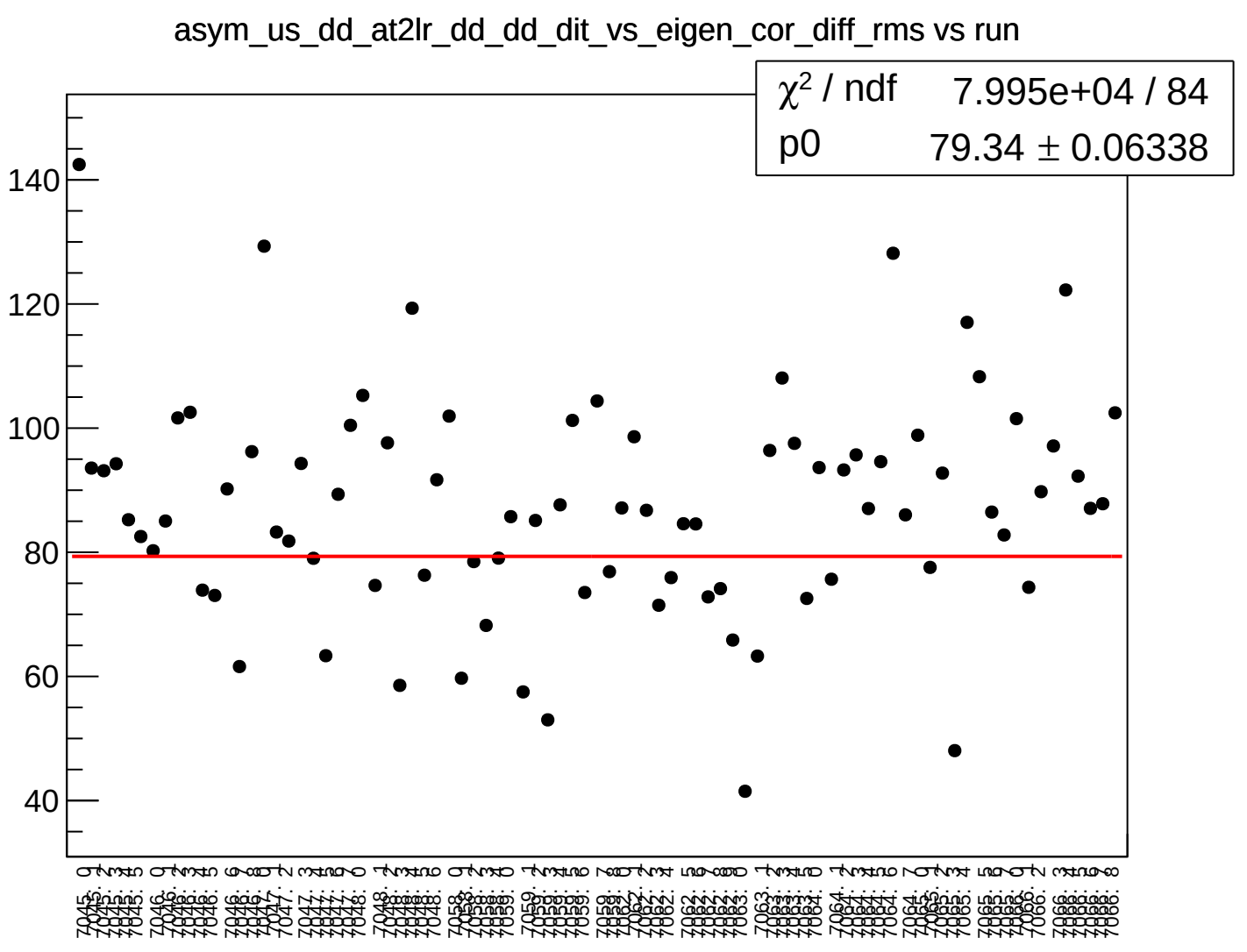

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 84
p0 −1.114e−14 ± 2.147e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 35.26
Std Dev 73.89
pull1D
Entries 85
Mean −0.01659
Std Dev 0.9667

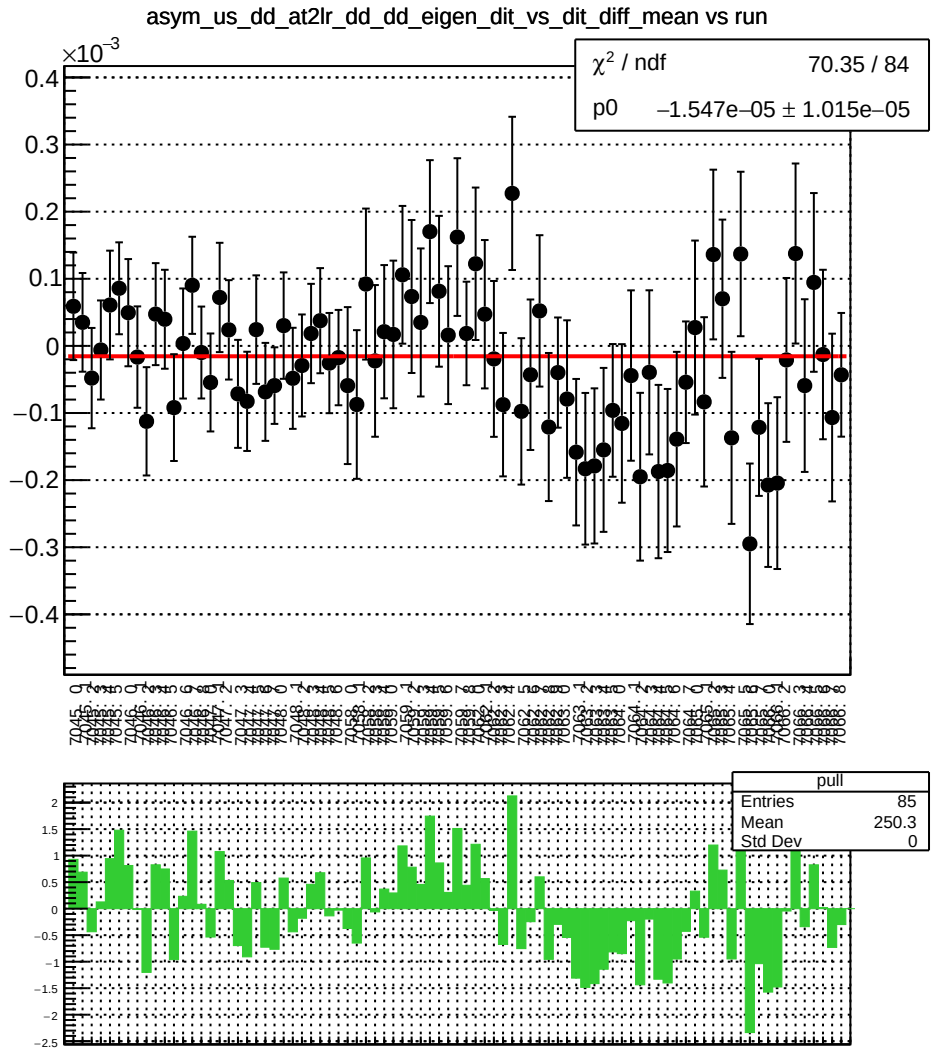

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.453e+05 / 84
p0 1.359e−11 ± 1.518e−14
1.2
1
0.8
0.6
0.4
0.2
0

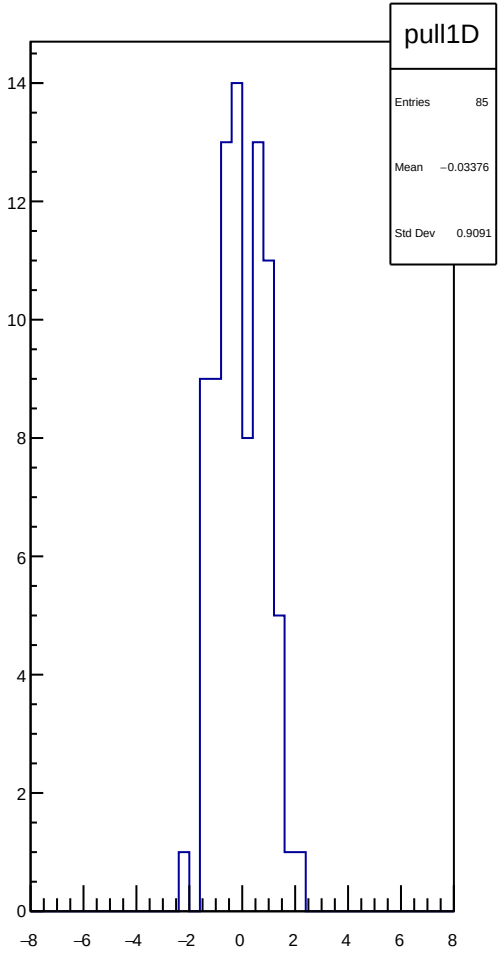

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.83 / 84
p0 0.09739 ± 0.08963
pull
Entries 85
Mean 234.1
Std Dev 0
pull1D
Entries 85
Mean 0.03654
Std Dev 0.9924

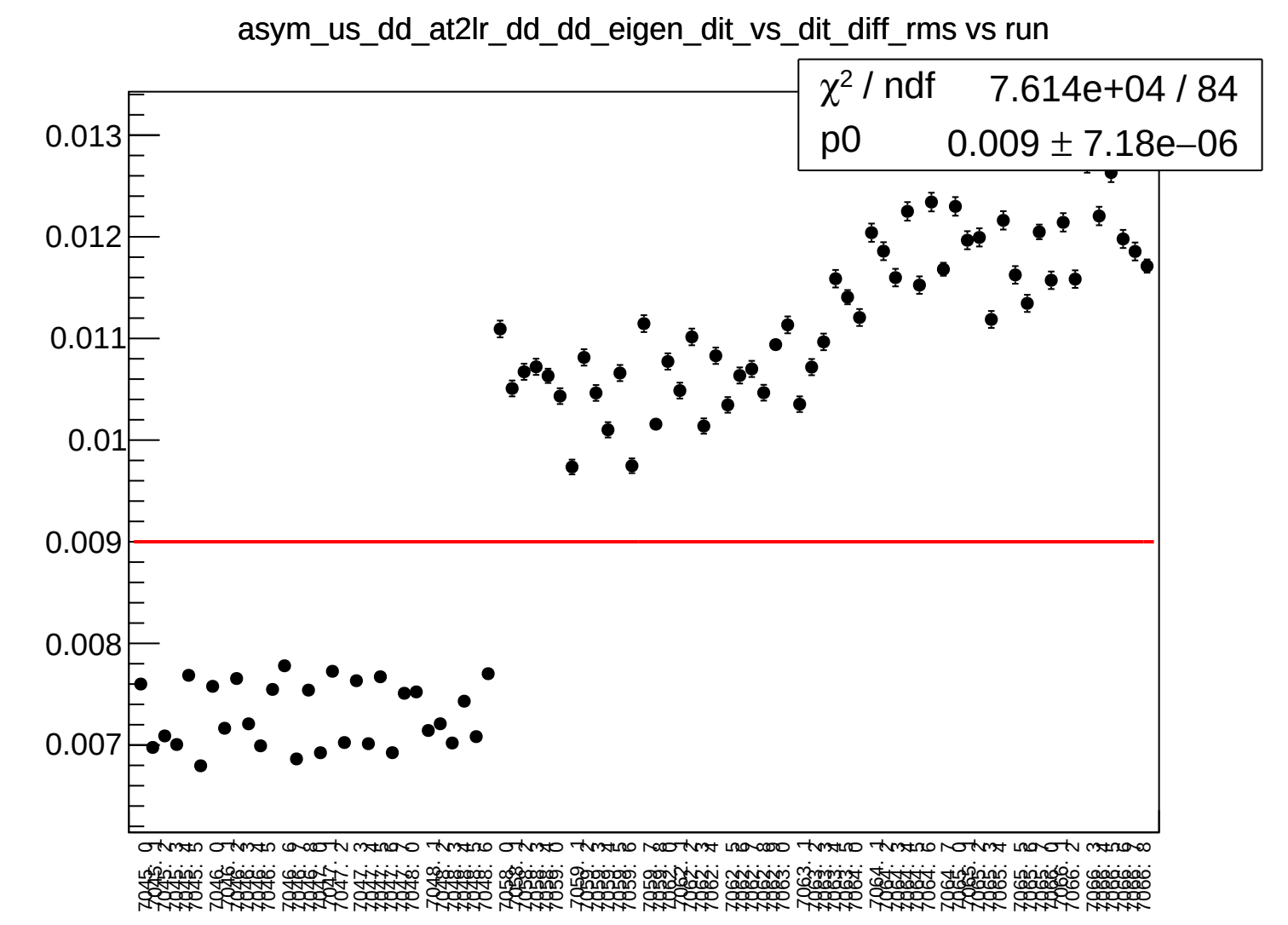

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.995e+04 / 84
p0 79.34 ± 0.06338
140
120
100
80
60
40

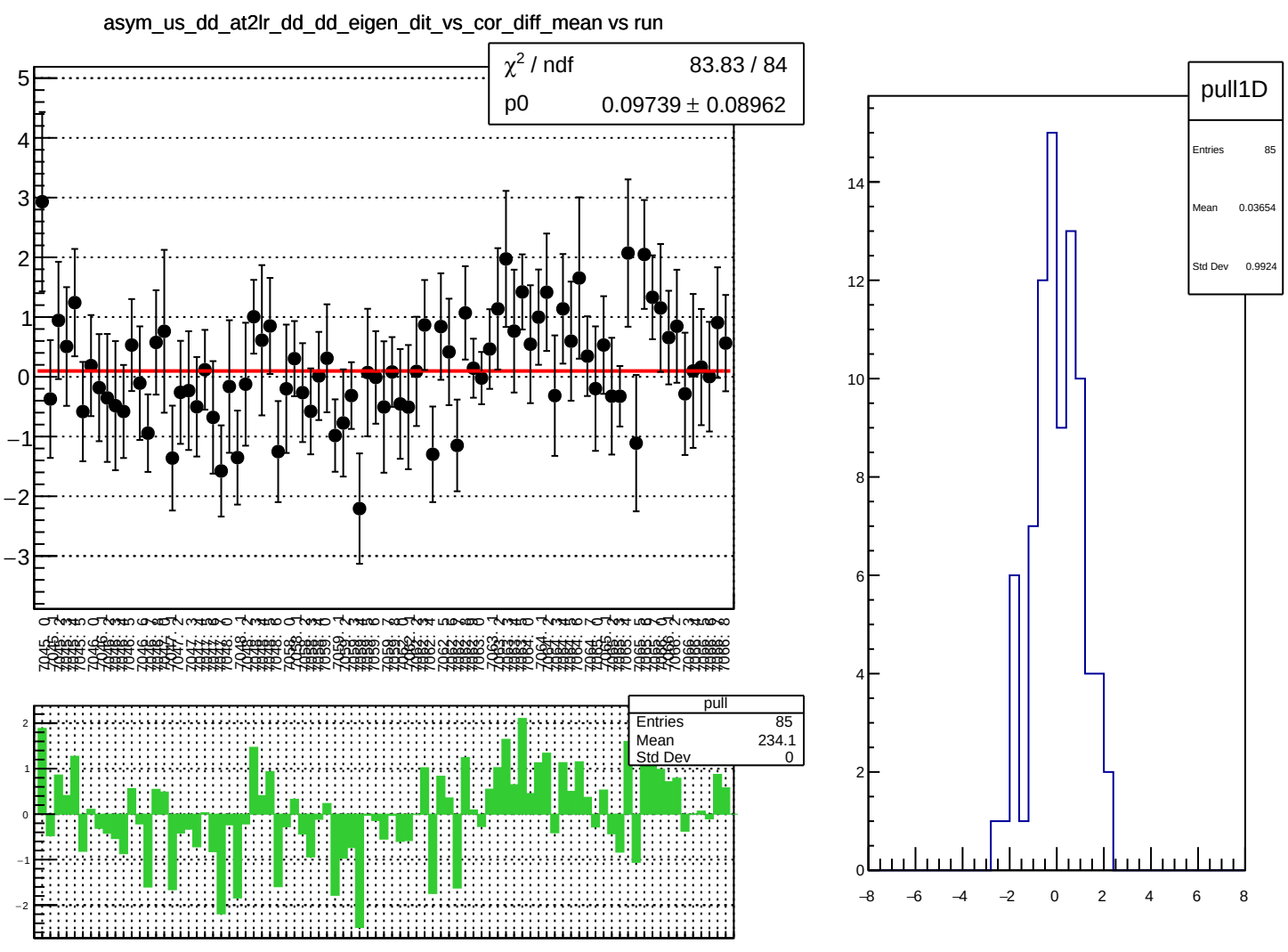

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.83 / 84
p0 0.09739 ± 0.08963
pull
Entries 85
Mean 234.1
Std Dev 0
pull1D
Entries 85
Mean 0.03654
Std Dev 0.9924

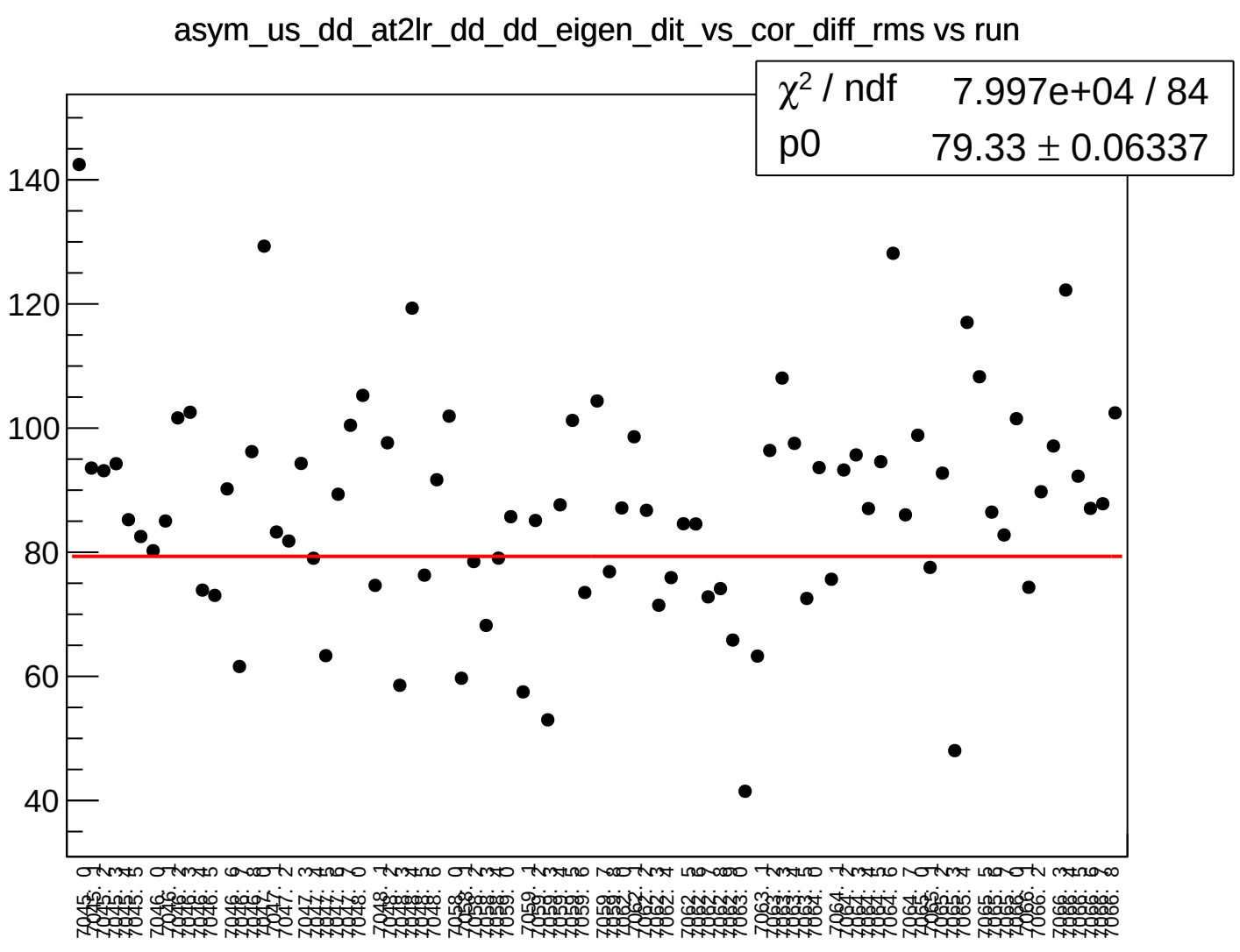

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.995e+04 / 84
p0 79.34 ± 0.06338
140
120
100
80
60
40

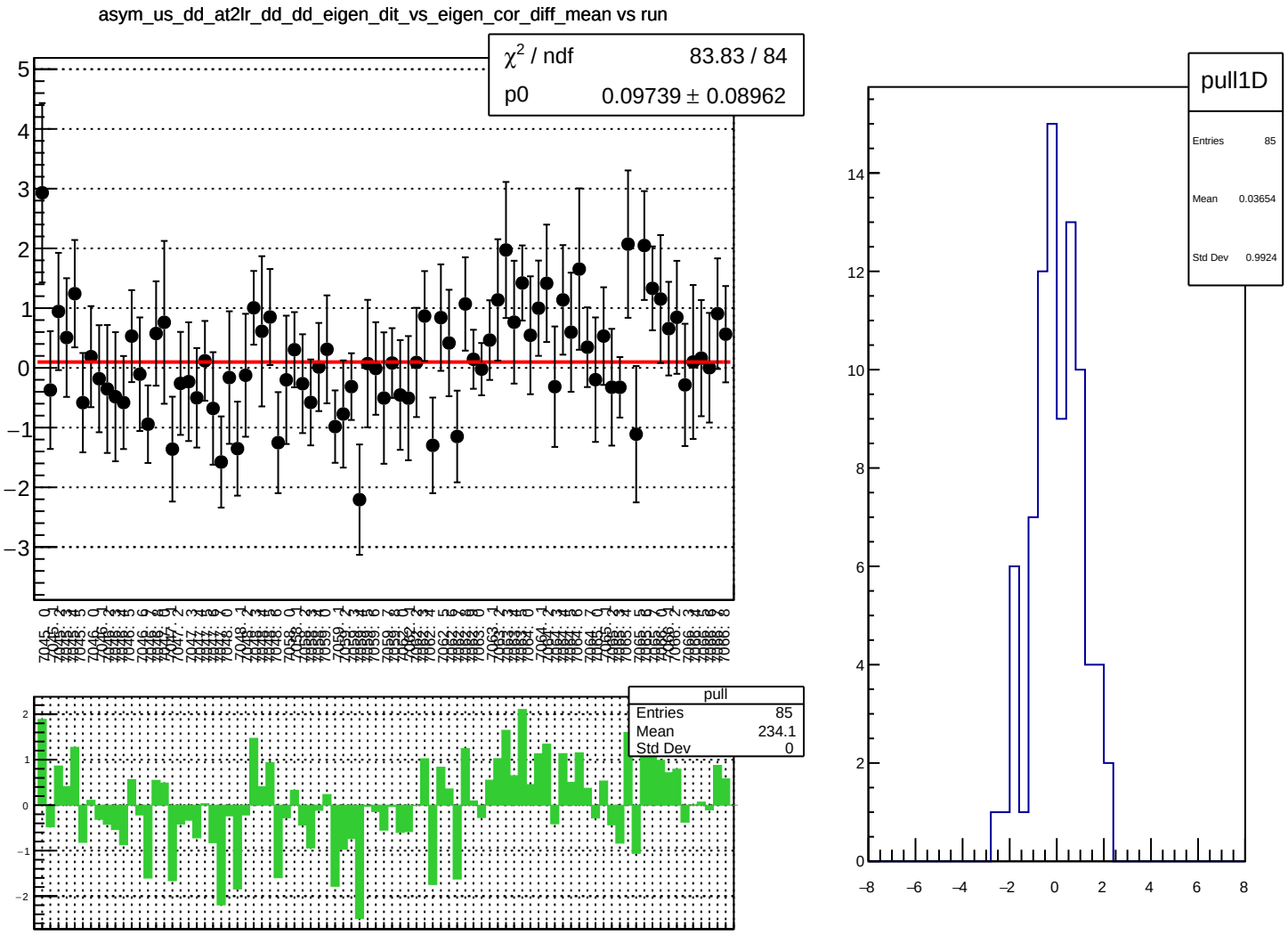

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.35 / 84
p0 −1.547e−05 ± 1.015e−05
pull
Entries 85
Mean 250.3
Std Dev 0

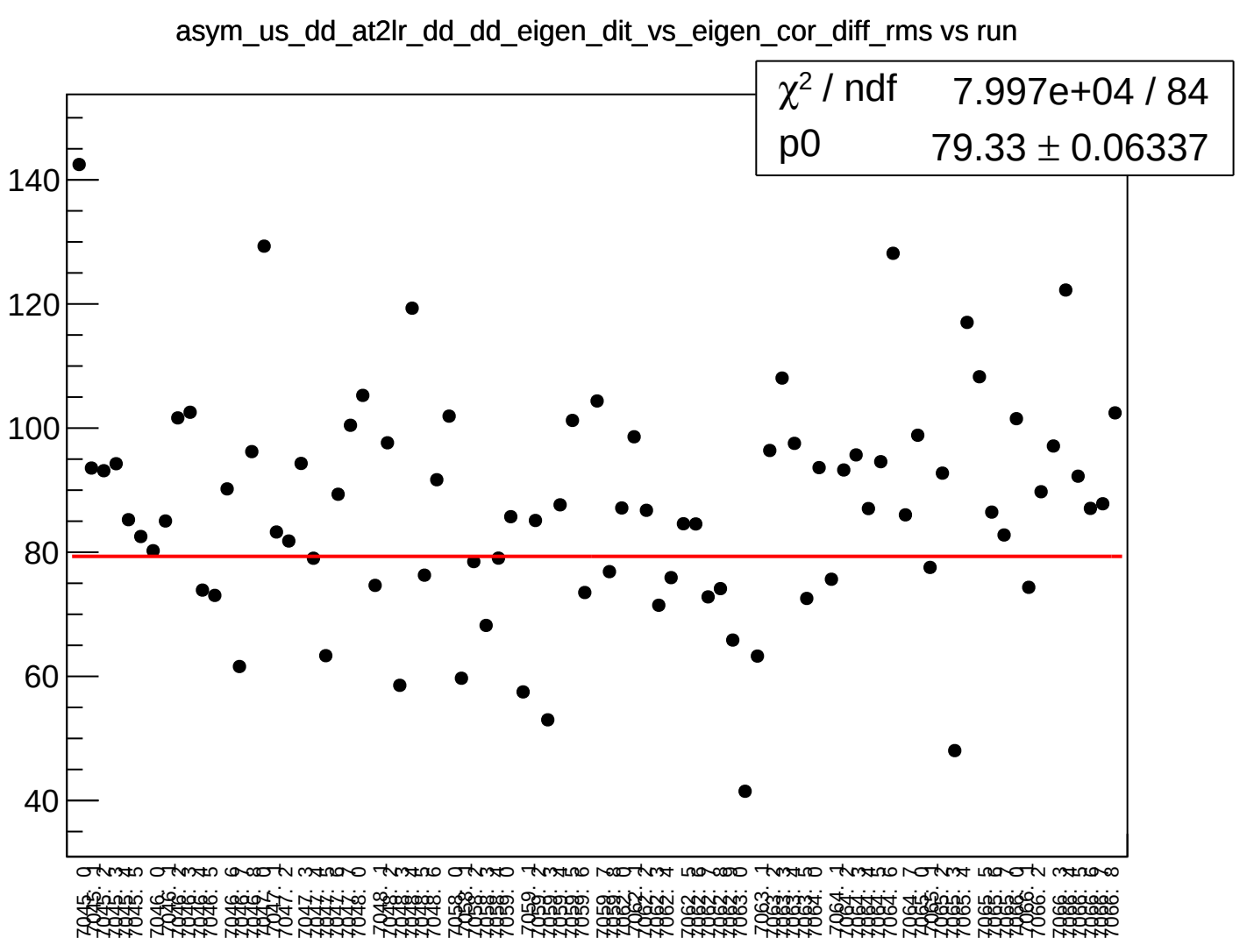

pull1D
Entries 85
Mean −0.03376
Std Dev 0.9091

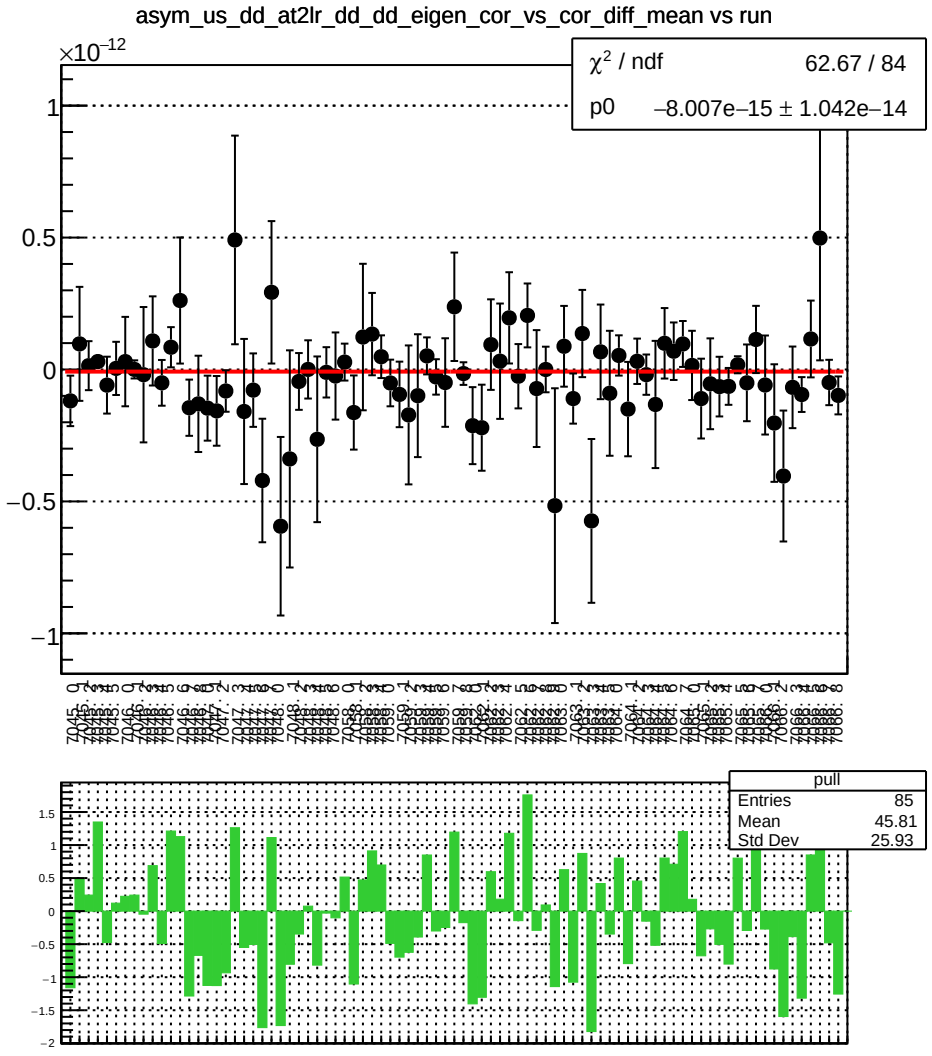

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.614e+04 / 84
p0 0.009 ± 7.18e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

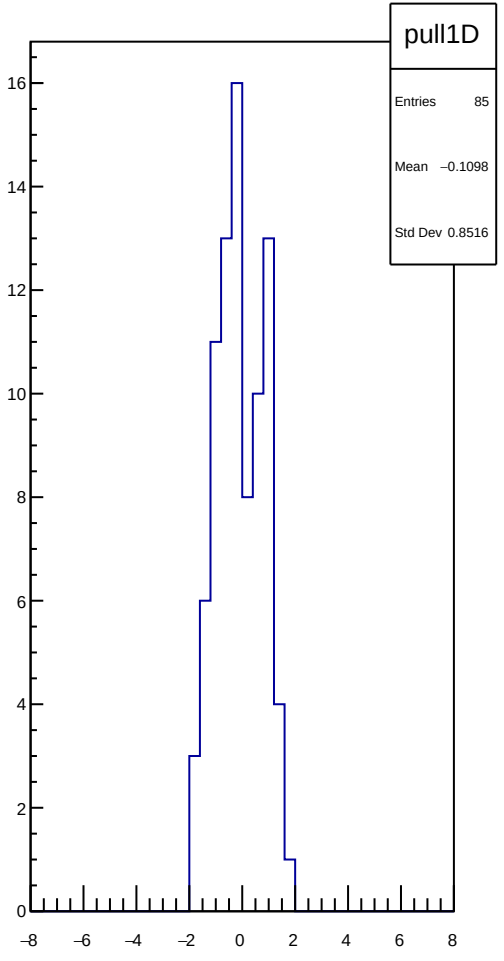

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.83 / 84
p0 0.09739 ± 0.08962
pull
Entries 85
Mean 234.1
Std Dev 0
pull1D
Entries 85
Mean 0.03654
Std Dev 0.9924

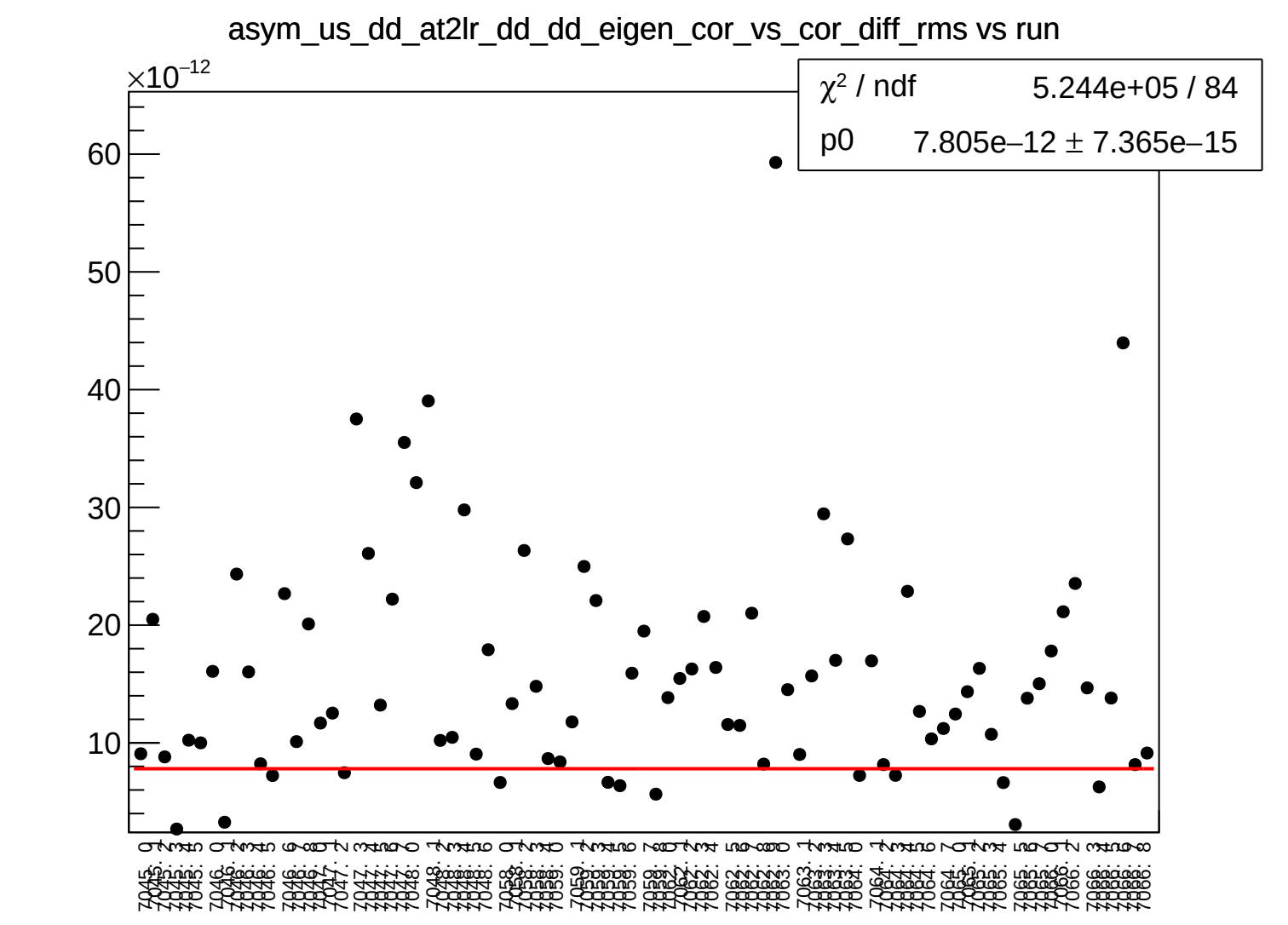

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.997e+04 / 84
p0 79.33 ± 0.06337
140
120
100
80
60
40

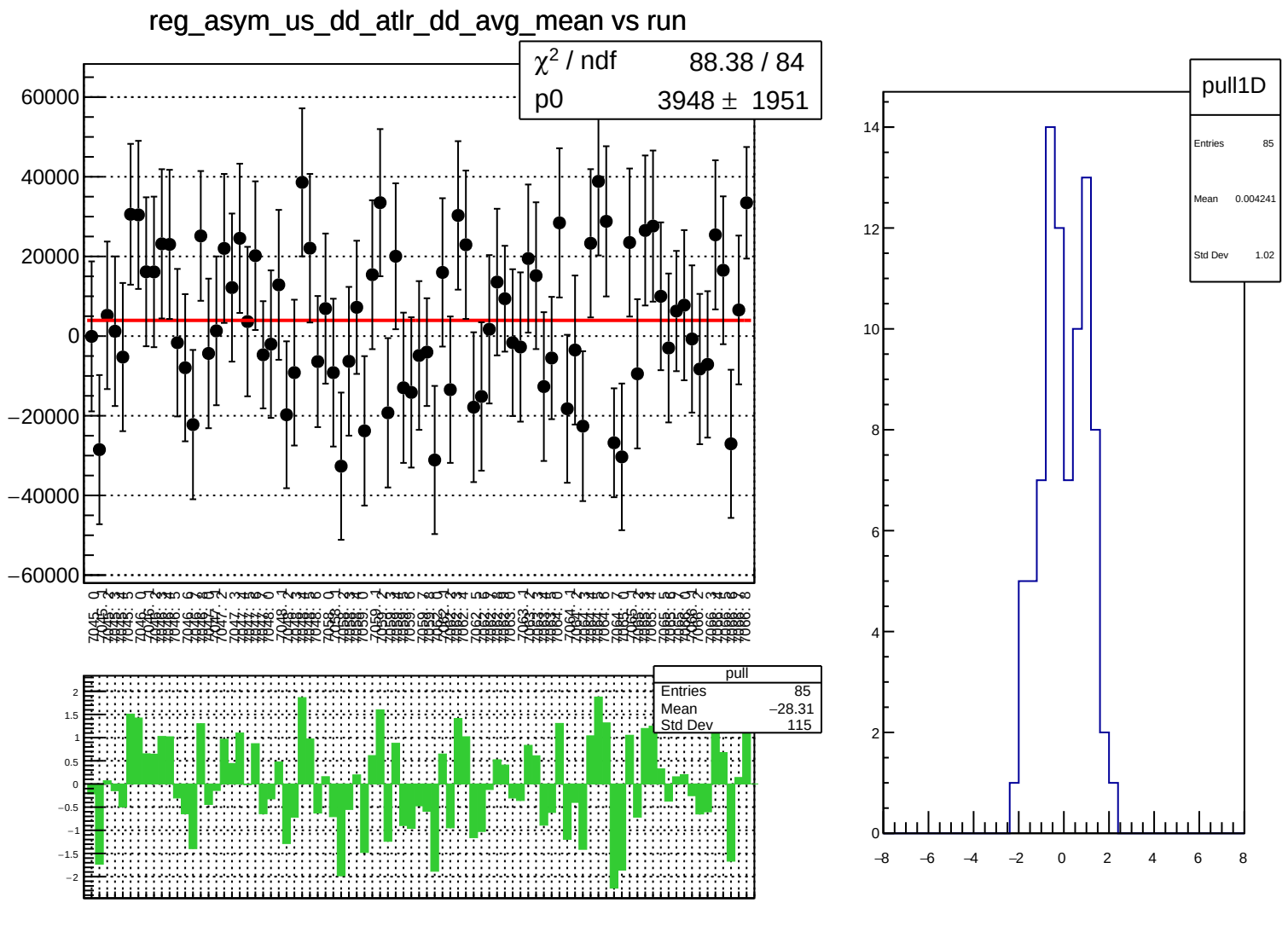

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.83 / 84
p0 0.09739 ± 0.08962
pull
Entries 85
Mean 234.1
Std Dev 0
pull1D
Entries 85
Mean 0.03654
Std Dev 0.9924

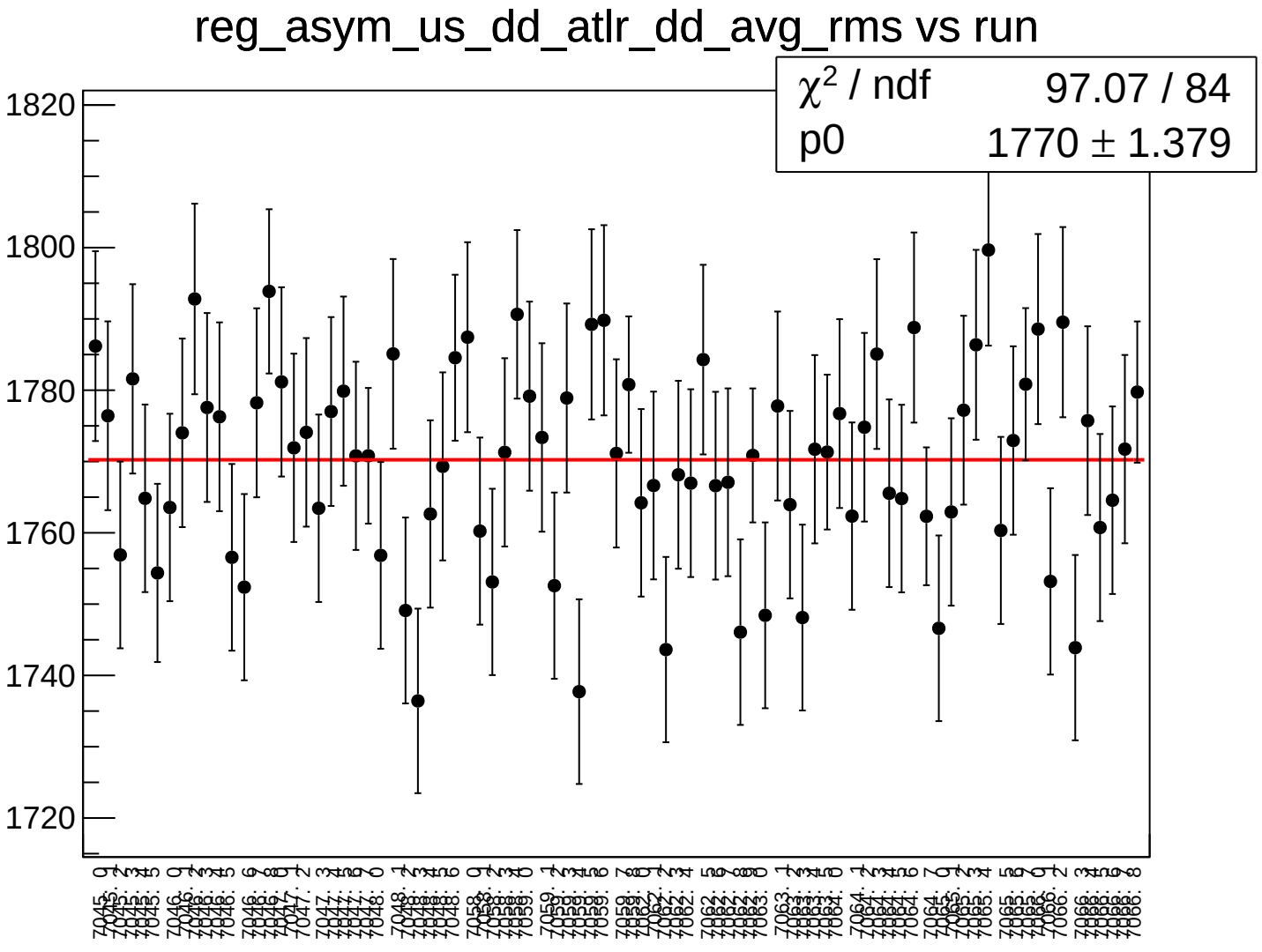

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.997e+04 / 84
p0 79.33 ± 0.06337
140
120
100
80
60
40

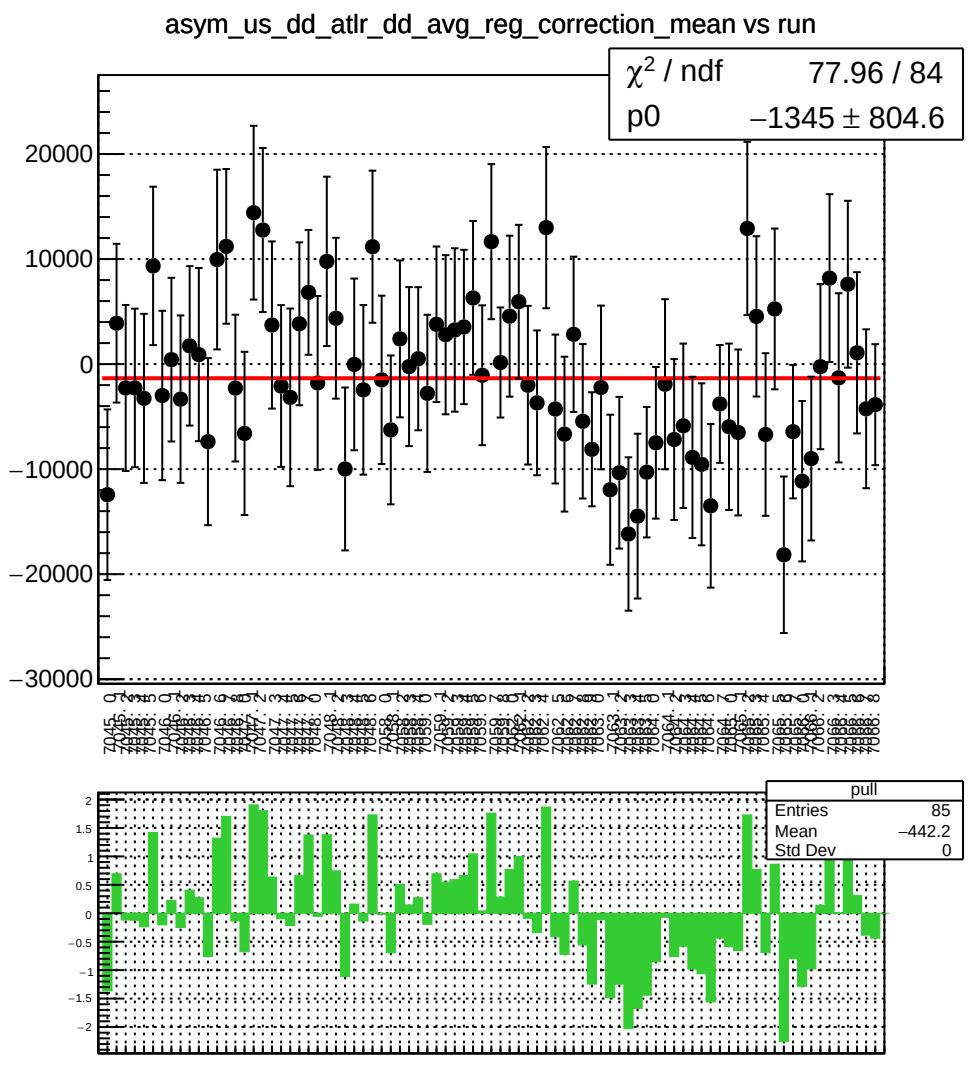

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.67 / 84
p0 −8.007e−15 ± 1.042e−14
pull
Entries 85
Mean 45.81
Std Dev 25.93

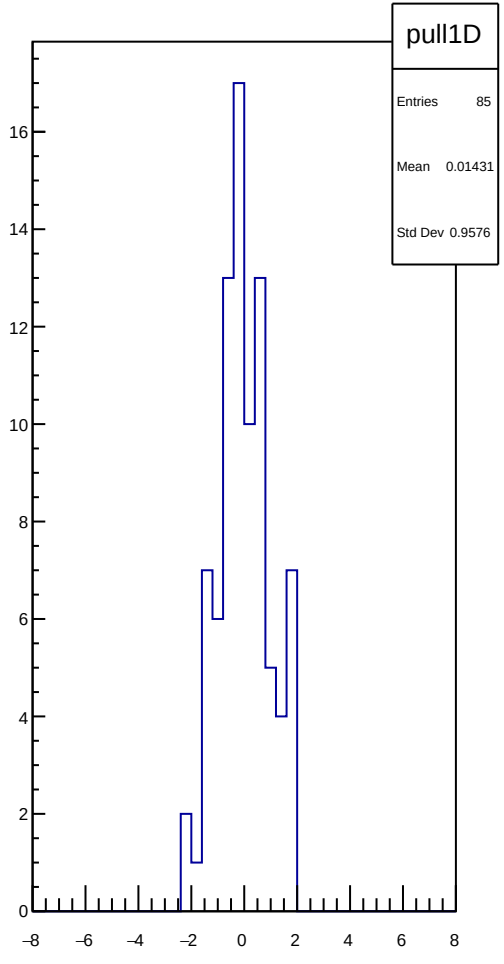

pull1D
Entries 85
Mean −0.1098
Std Dev 0.8516

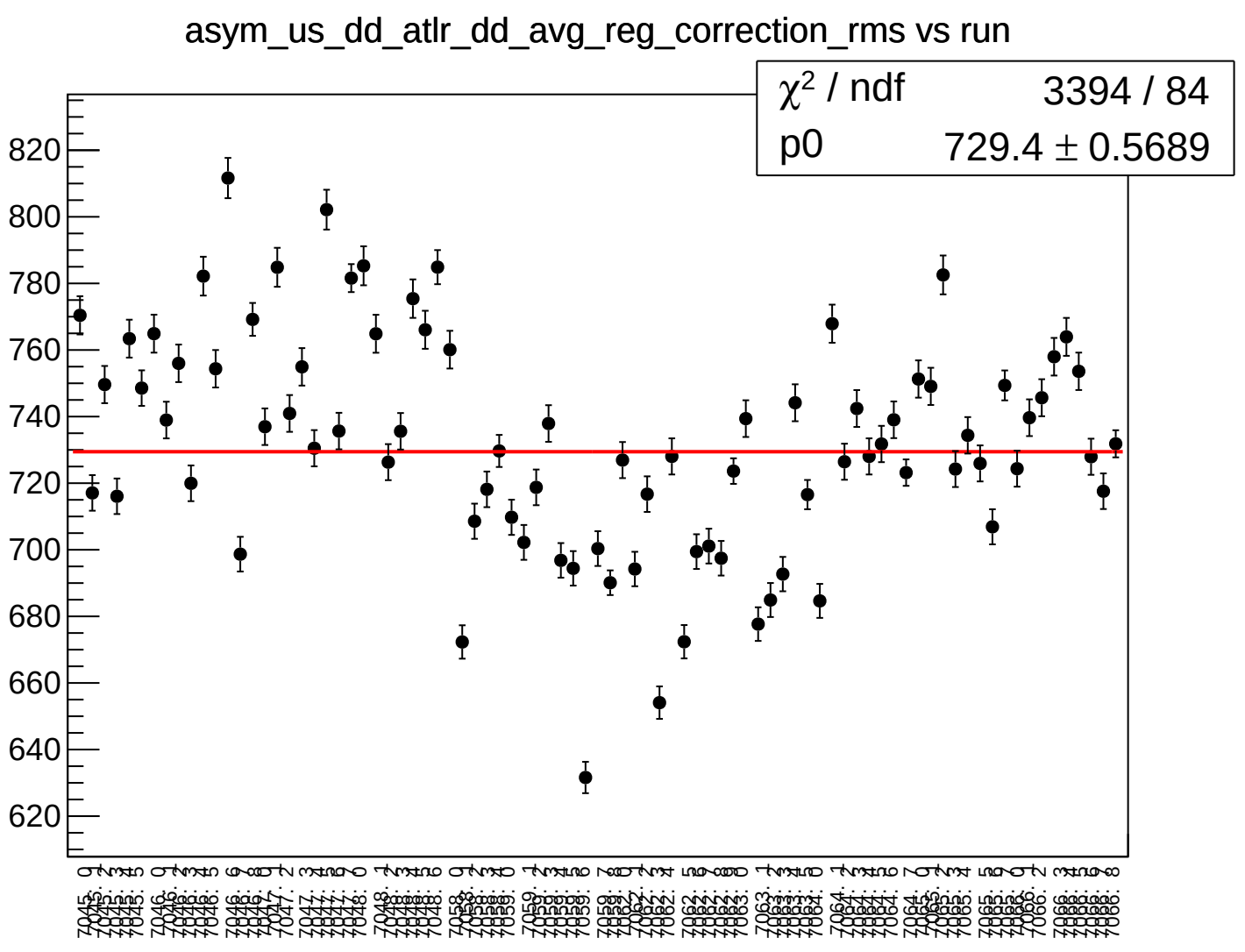

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.244e+05 / 84
p0 7.805e−12 ± 7.365e−15
60
50
40
30
20
10

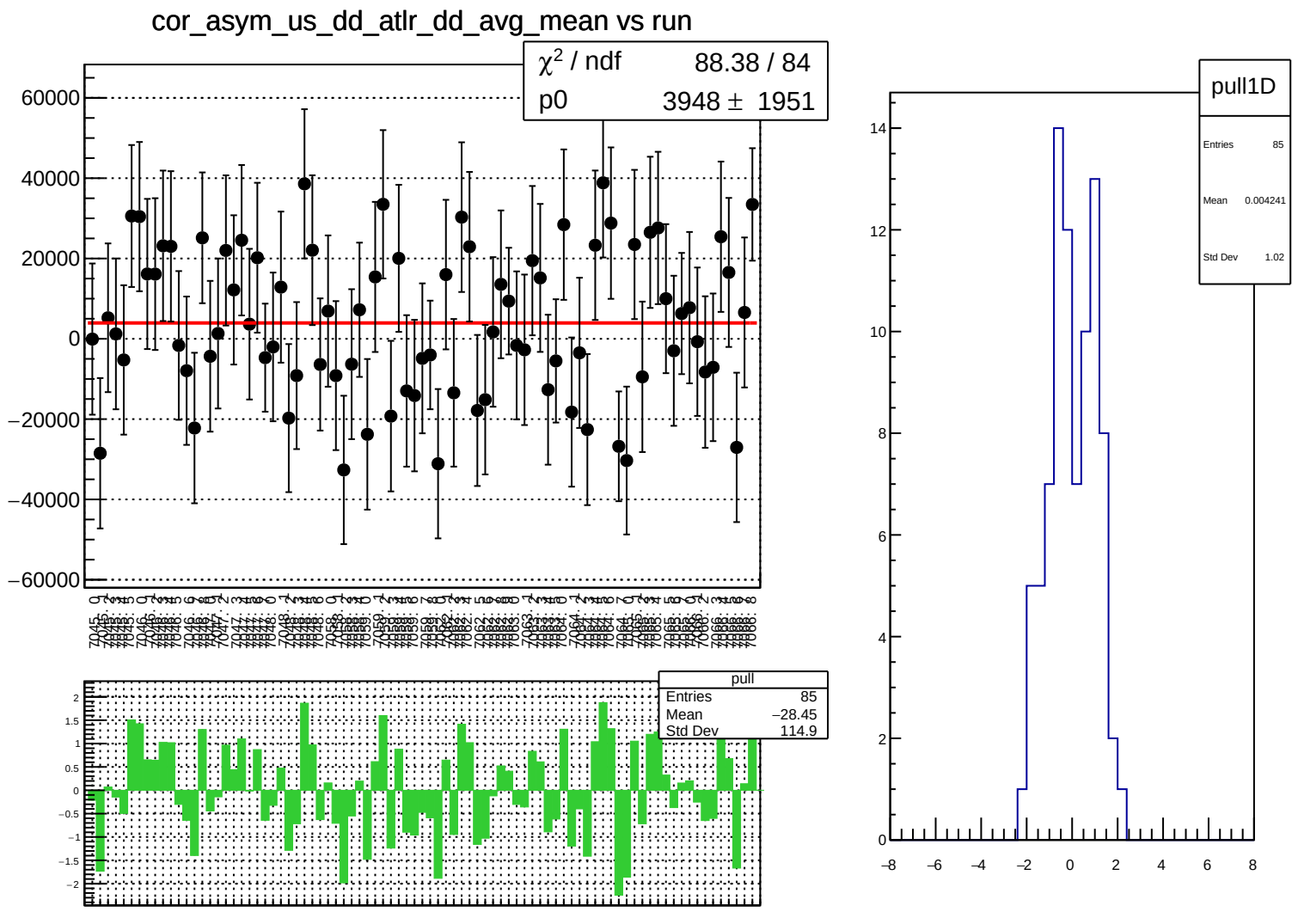

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.38 / 84
p0 3948 ± 1951
pull
Entries 85
Mean −28.31
Std Dev 115
pull1D
Entries 85
Mean 0.004241
Std Dev 1.02

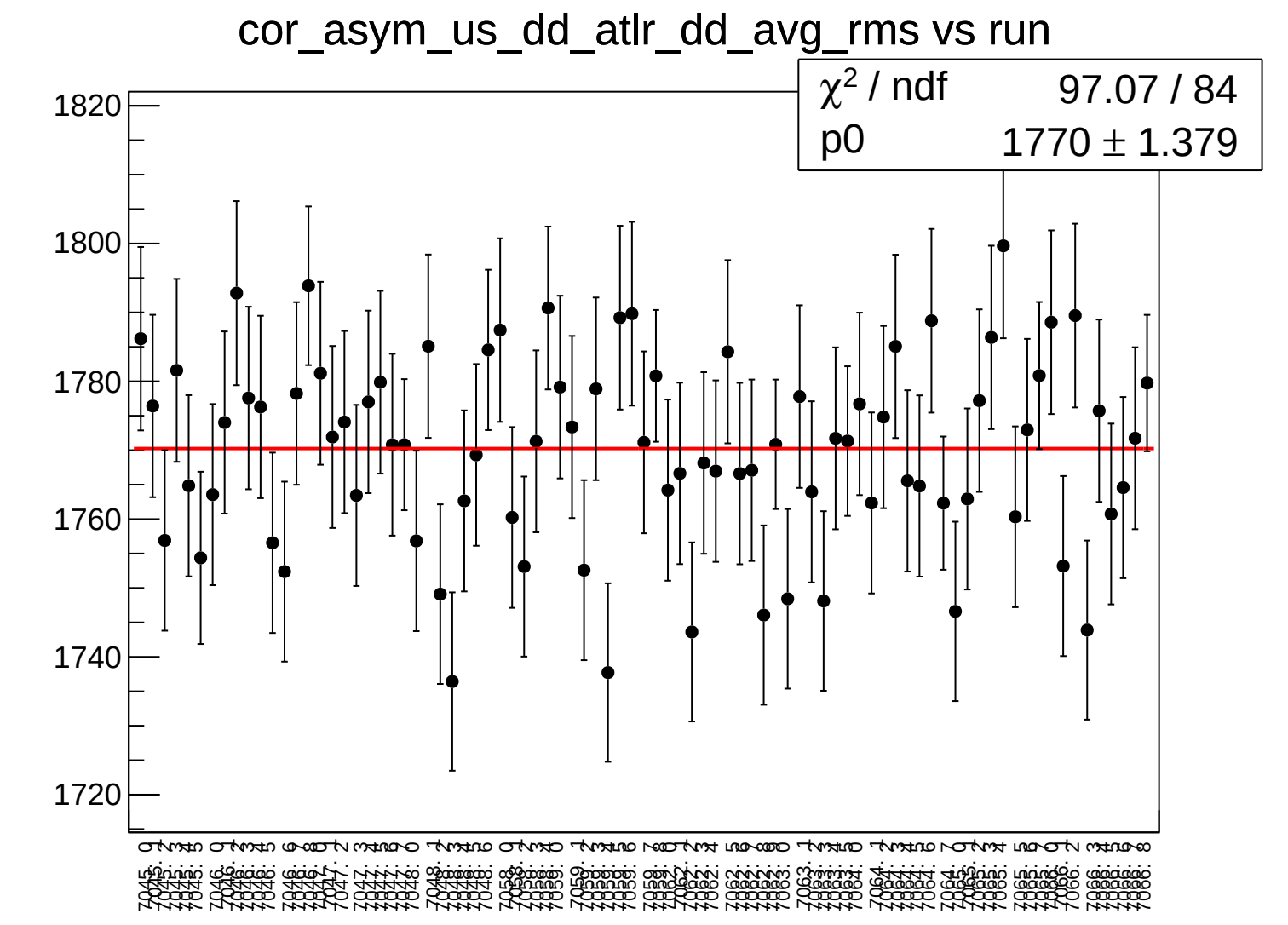

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 97.07 / 84
p0 1770 ± 1.379
1820
1800
1780
1760
1740
1720

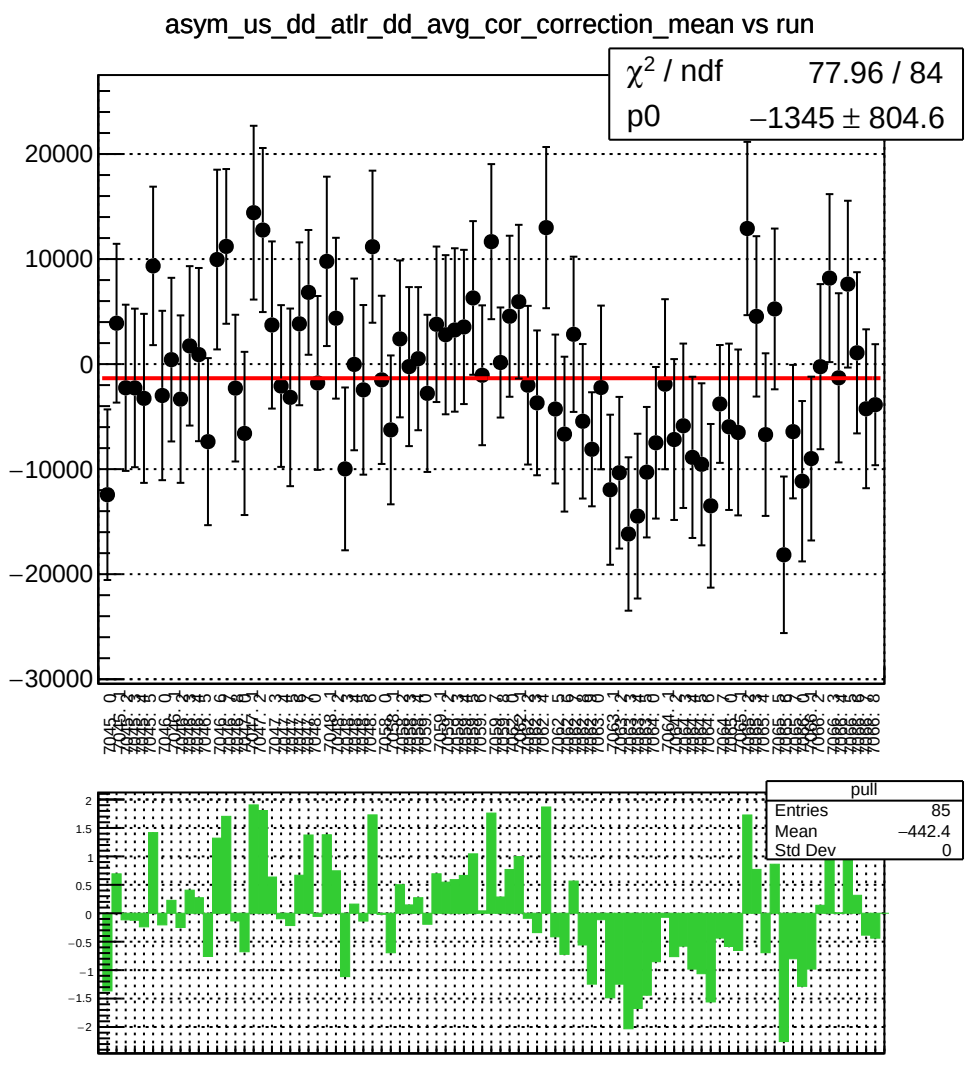

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 77.96 / 84
p0 −1345 ± 804.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −442.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

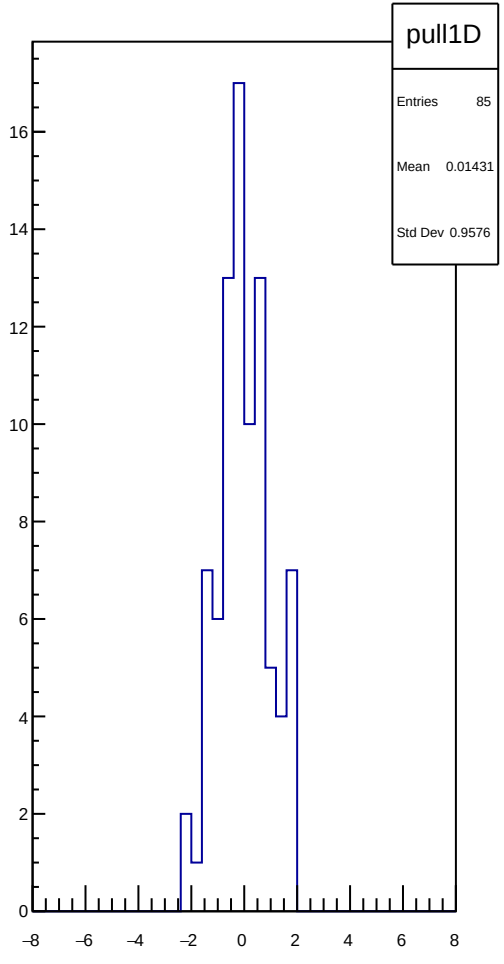

pull1D
Entries 85
Mean 0.01431
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

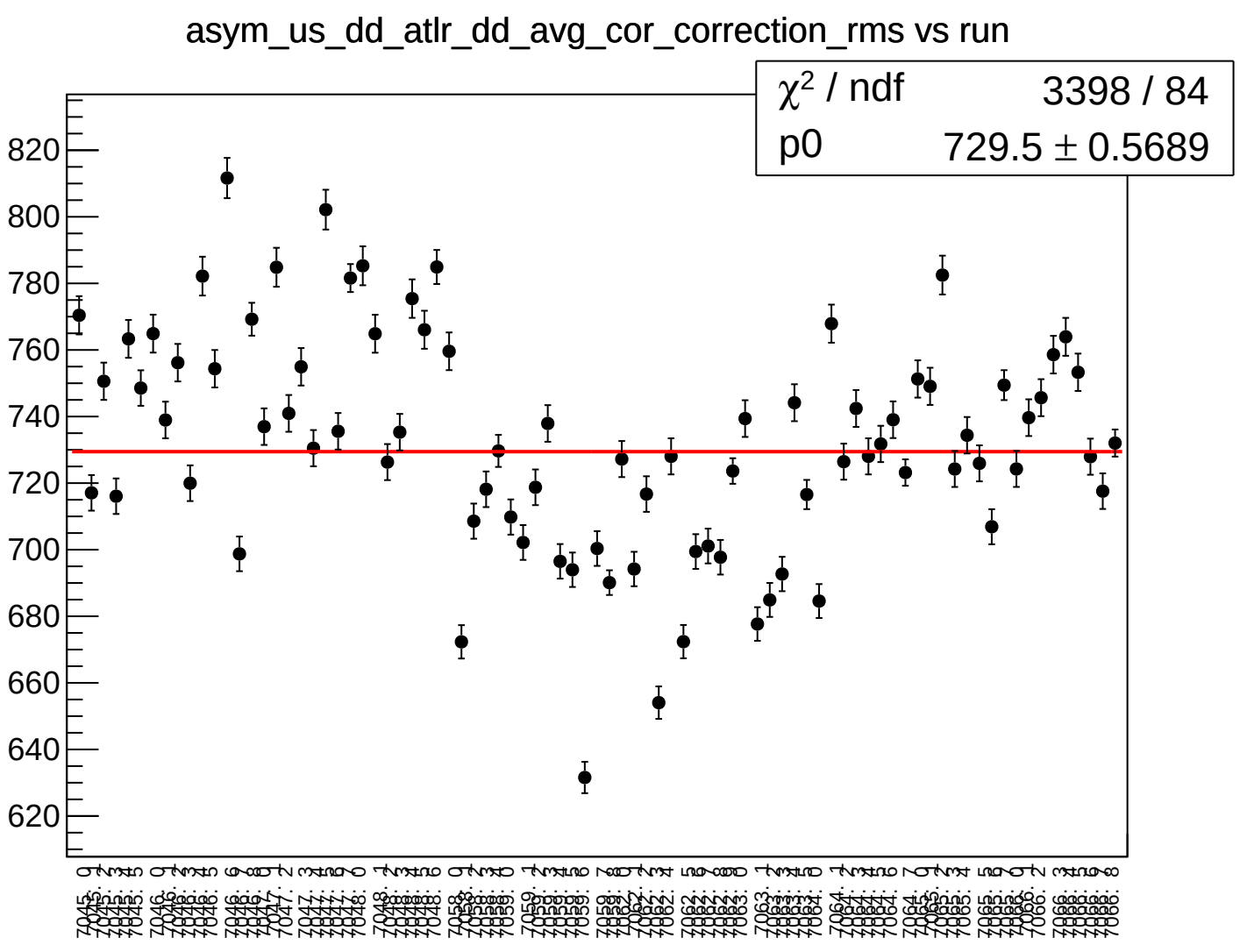

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3394 / 84
p0 729.4 ± 0.5689
820
800
780
760
740
720
700
680
660
640
620

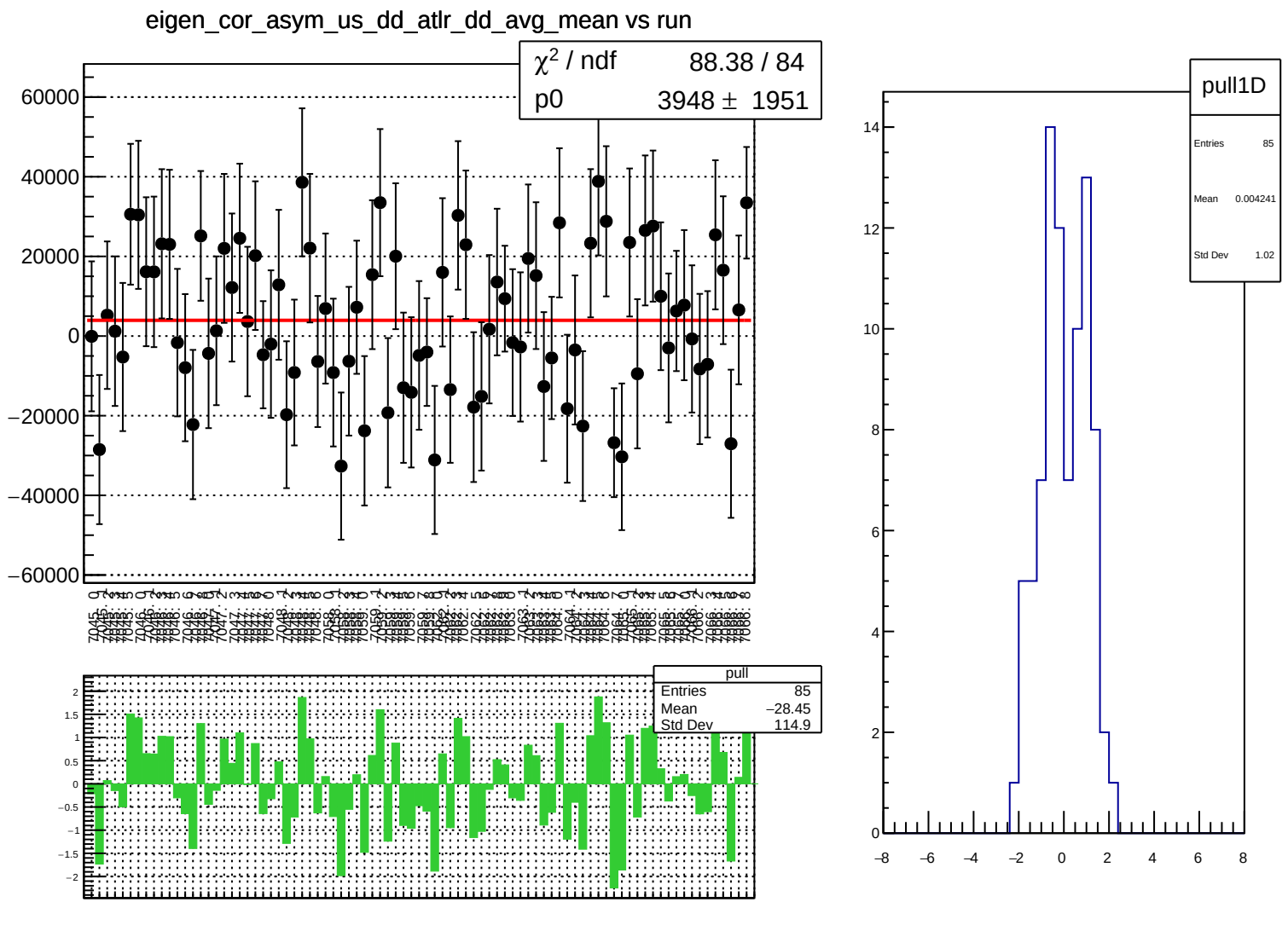

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.38 / 84
p0 3948 ± 1951
pull
Entries 85
Mean −28.45
Std Dev 114.9
pull1D
Entries 85
Mean 0.004241
Std Dev 1.02

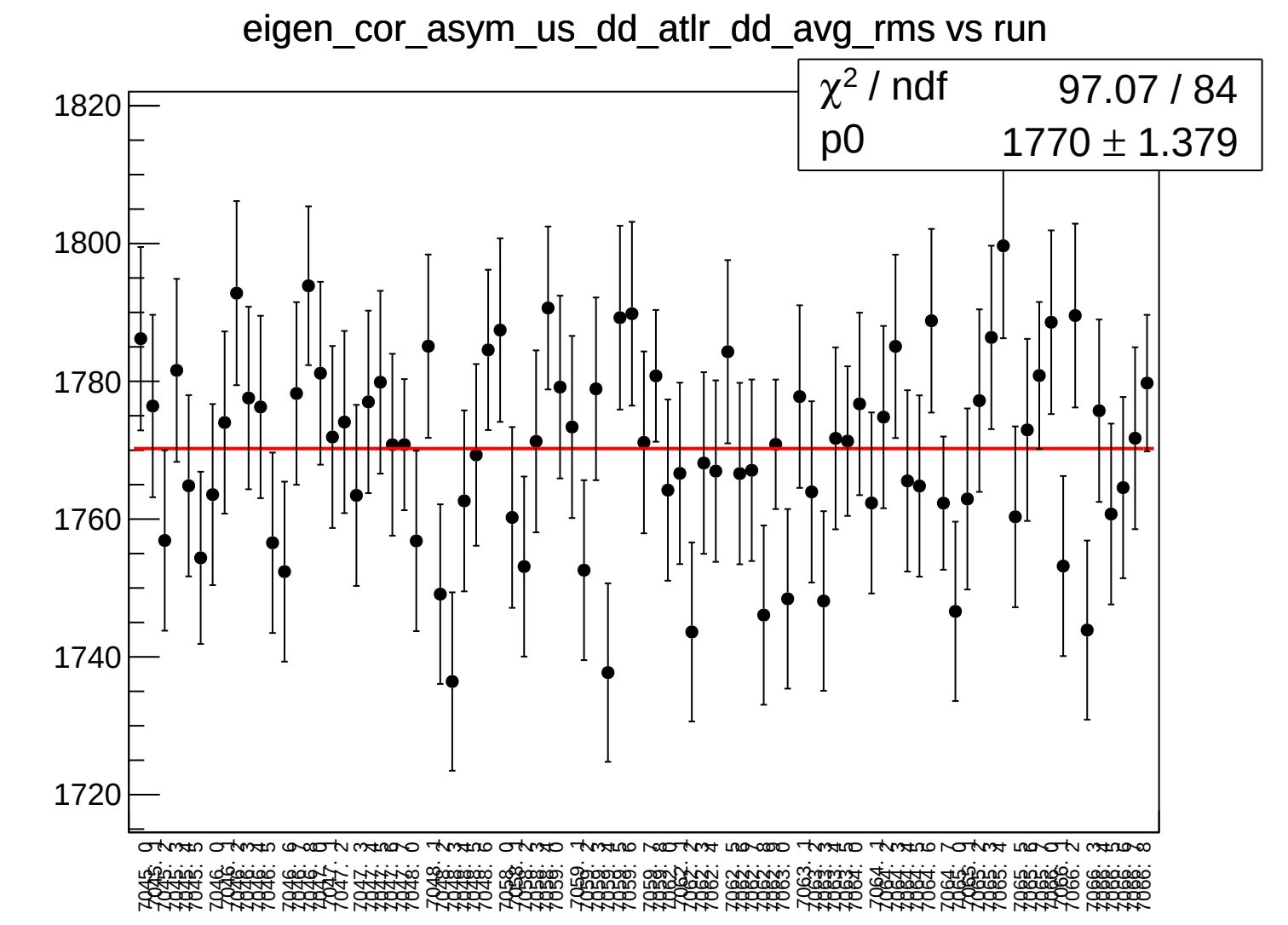

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 97.07 / 84
p0 1770 ± 1.379
1820
1800
1780
1760
1740
1720

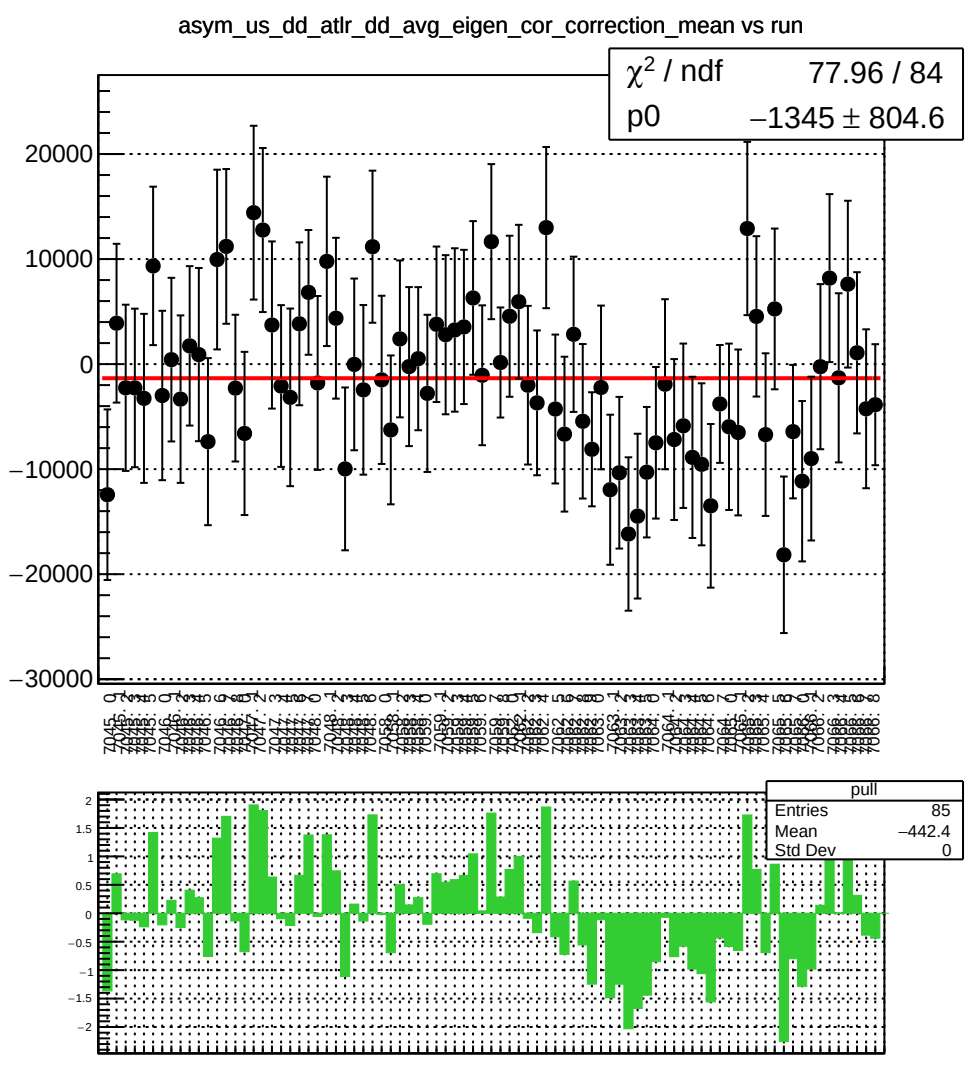

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 77.96 / 84
p0 −1345 ± 804.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −442.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

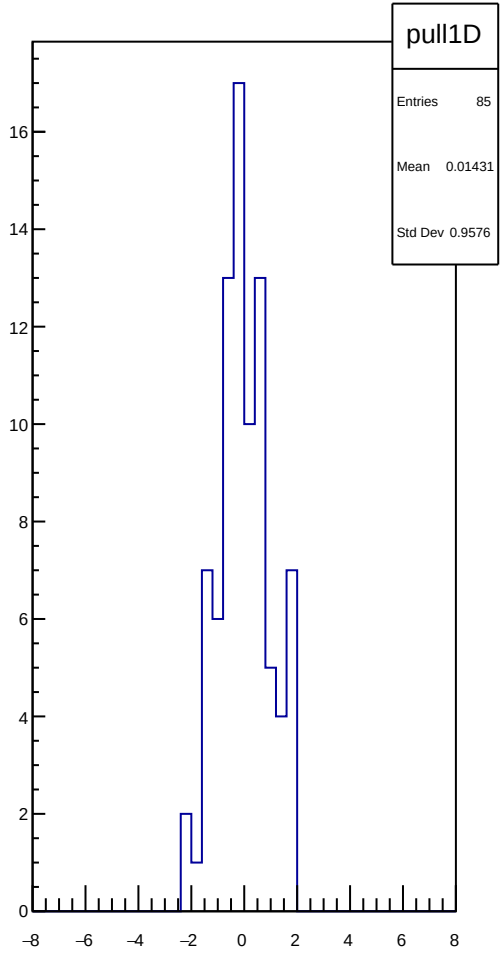

pull1D
Entries 85
Mean 0.01431
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

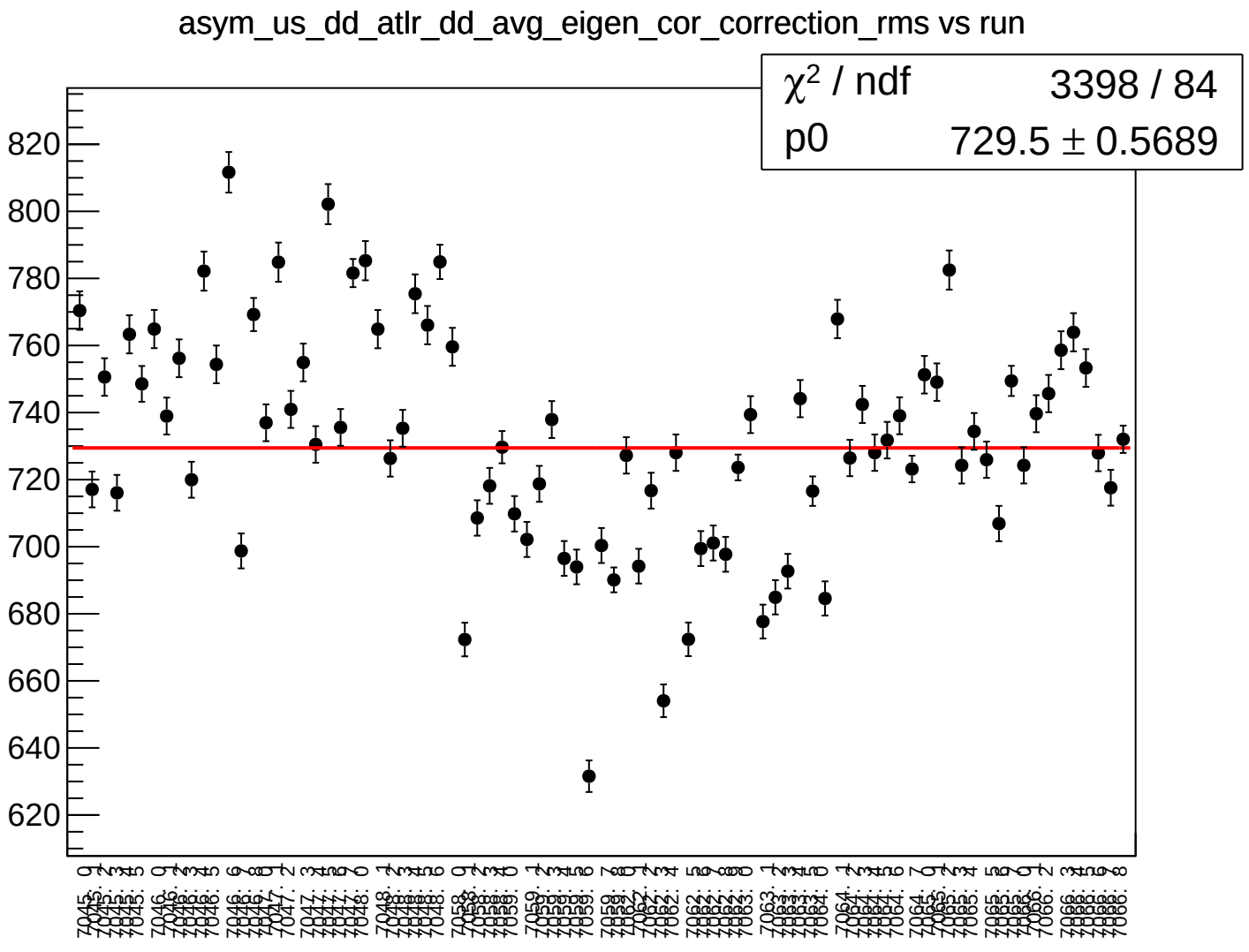

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3398 / 84
p0 729.5 ± 0.5689
820
800
780
760
740
720
700
680
660
640
620

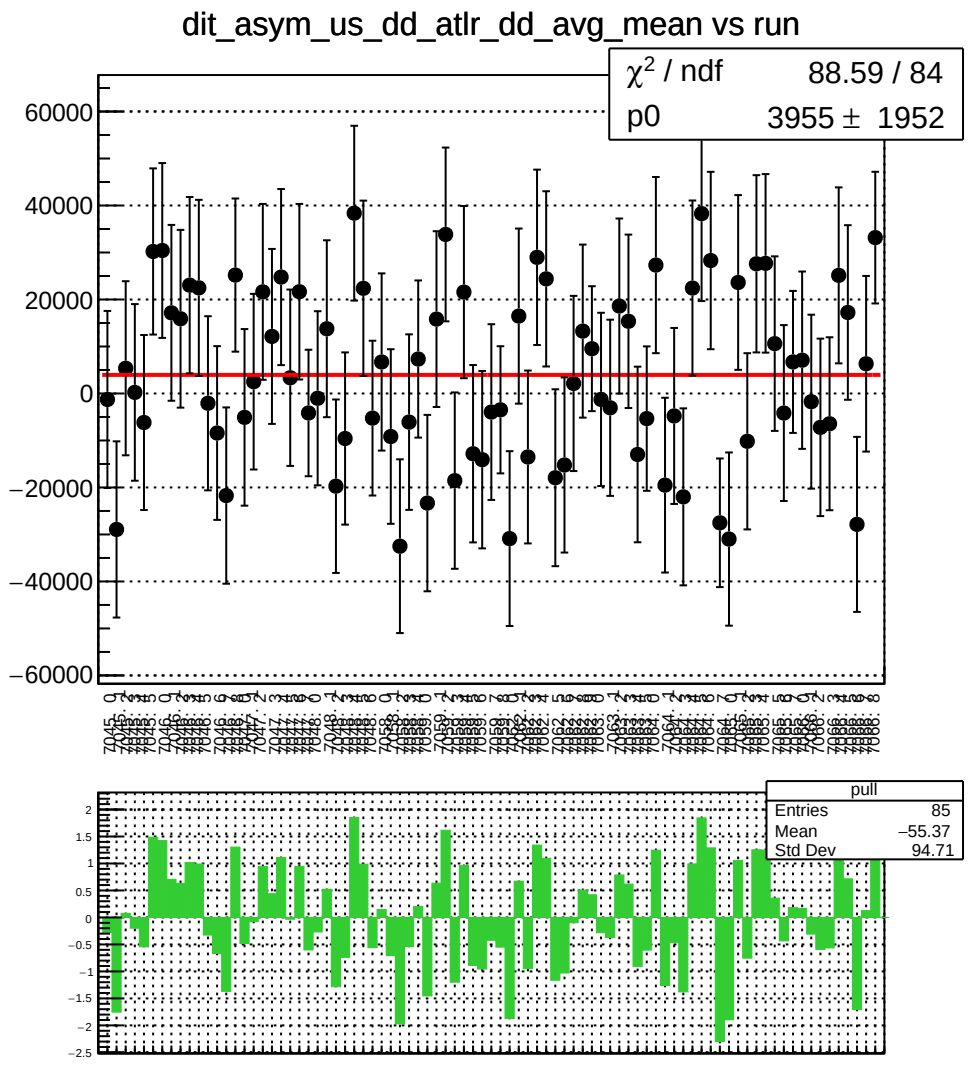

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.38 / 84
p0 3948 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −28.45
Std Dev 114.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.004241
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

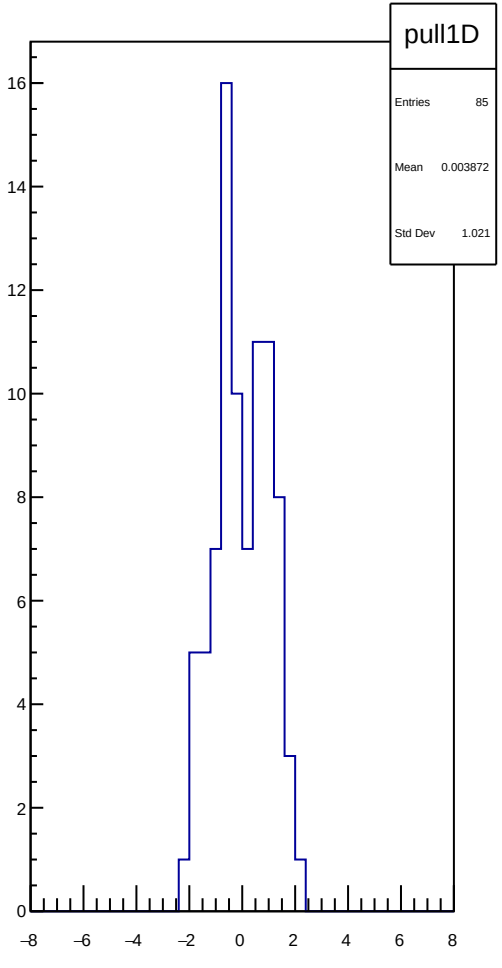

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 97.07 / 84
p0 1770 ± 1.379
1820
1800
1780
1760
1740
1720

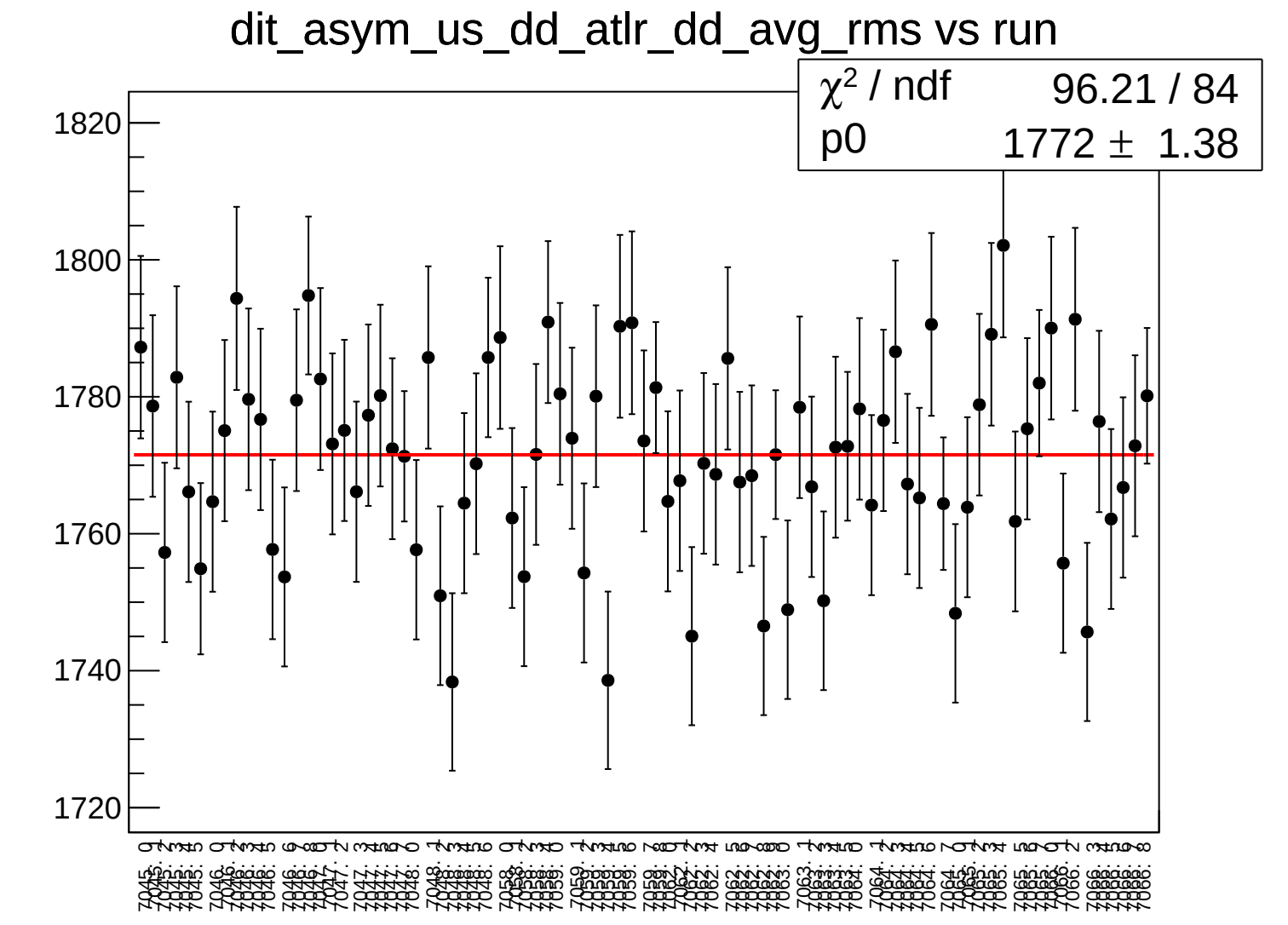

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.96 / 84
p0 −1345 ± 804.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −442.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

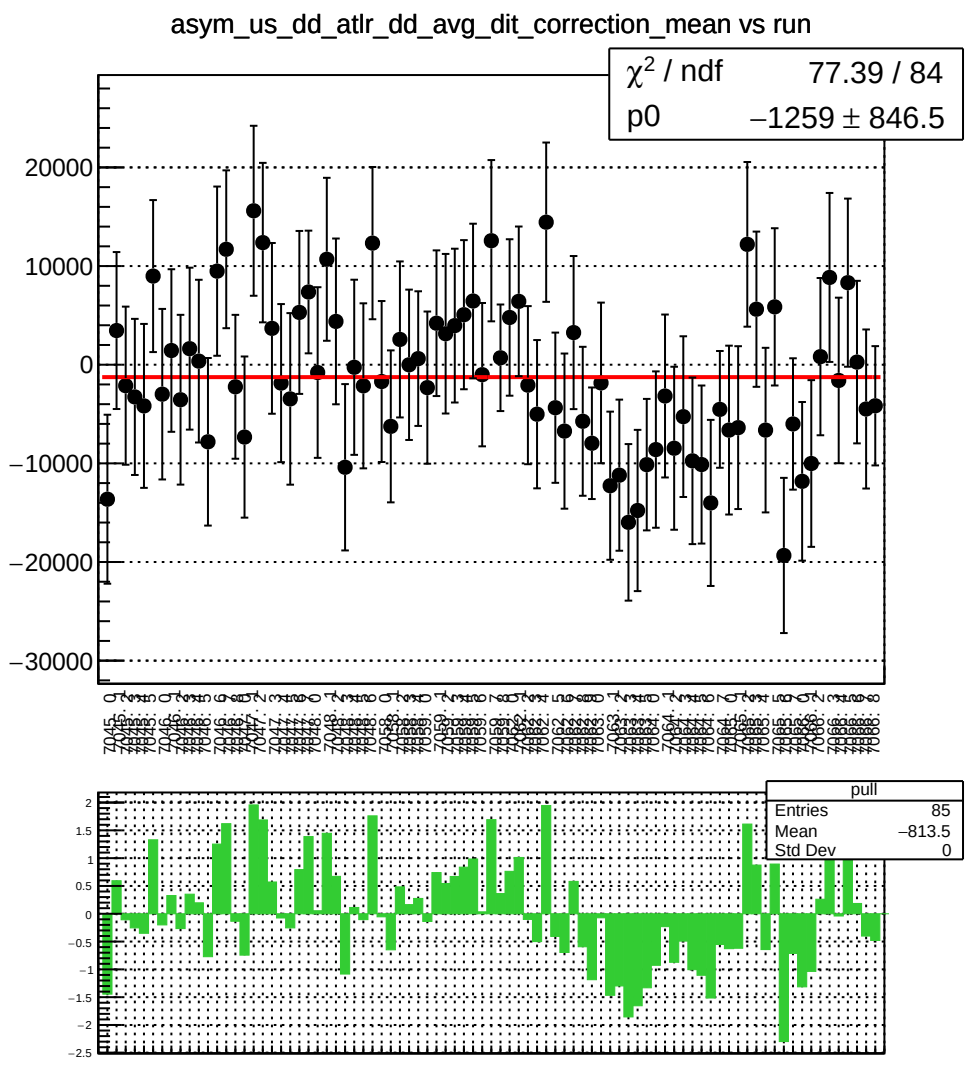

pull1D
Entries 85
Mean 0.01431
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

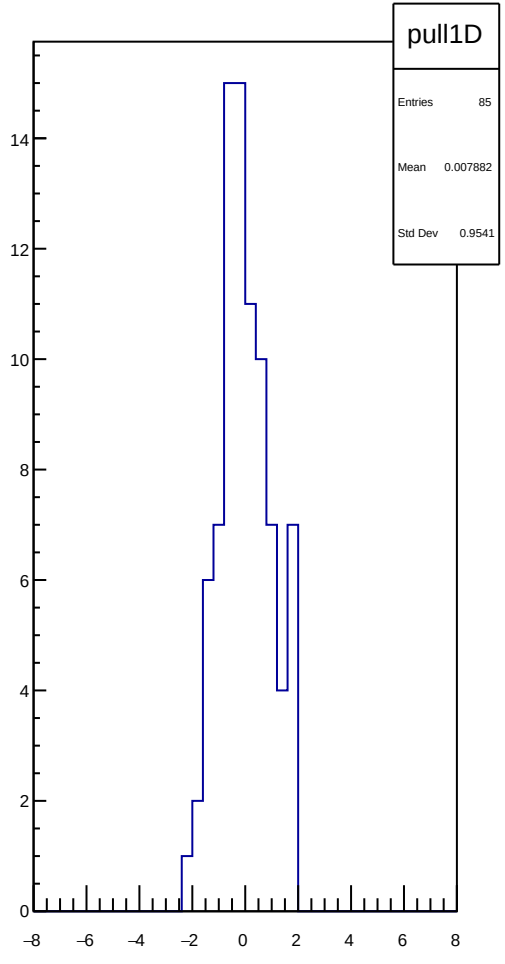

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3398 / 84
p0 729.5 ± 0.5689
820
800
780
760
740
720
700
680
660
640
620

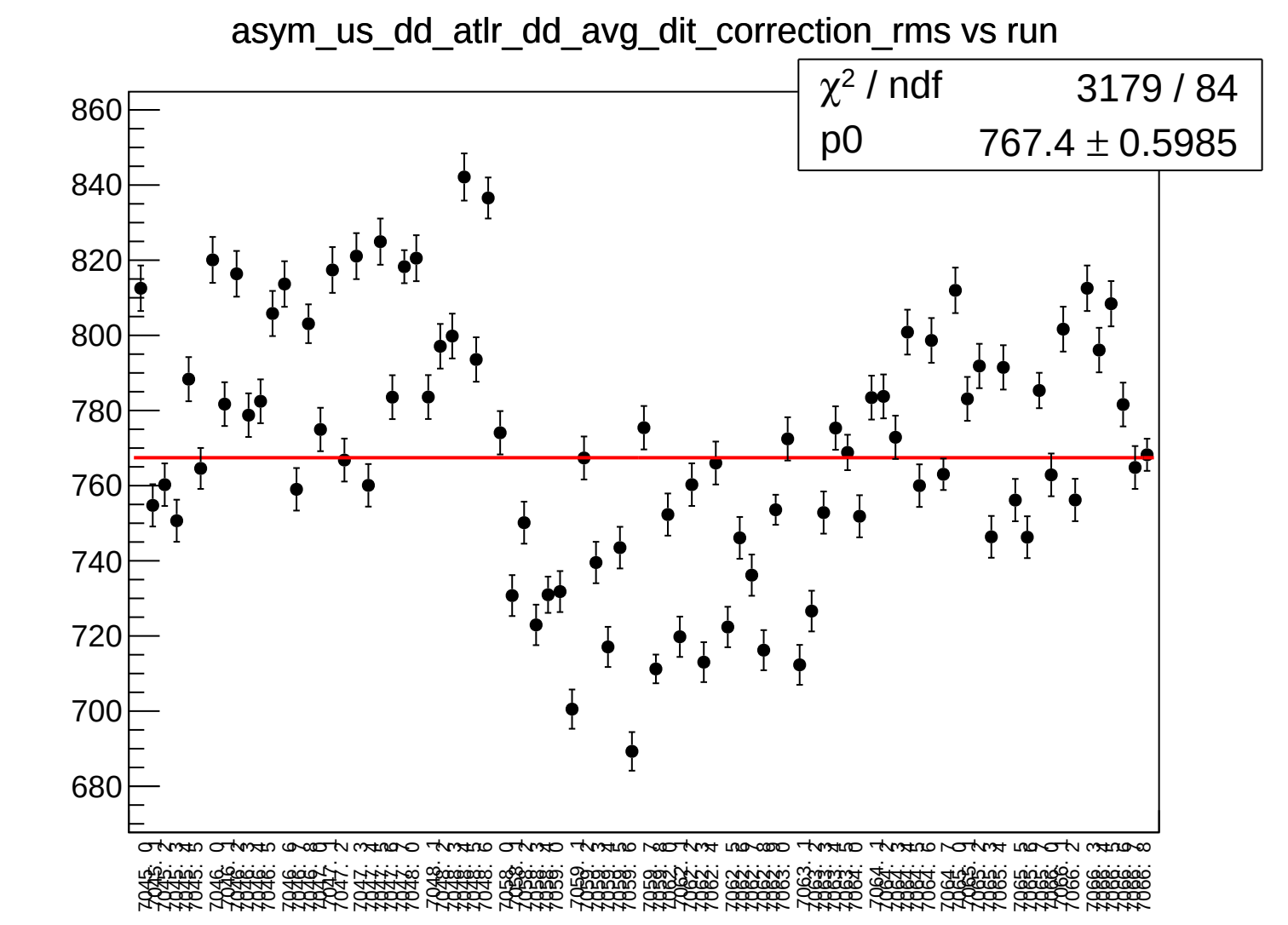

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.59 / 84
p0 3955 ± 1952
pull
Entries 85
Mean −55.37
Std Dev 94.71

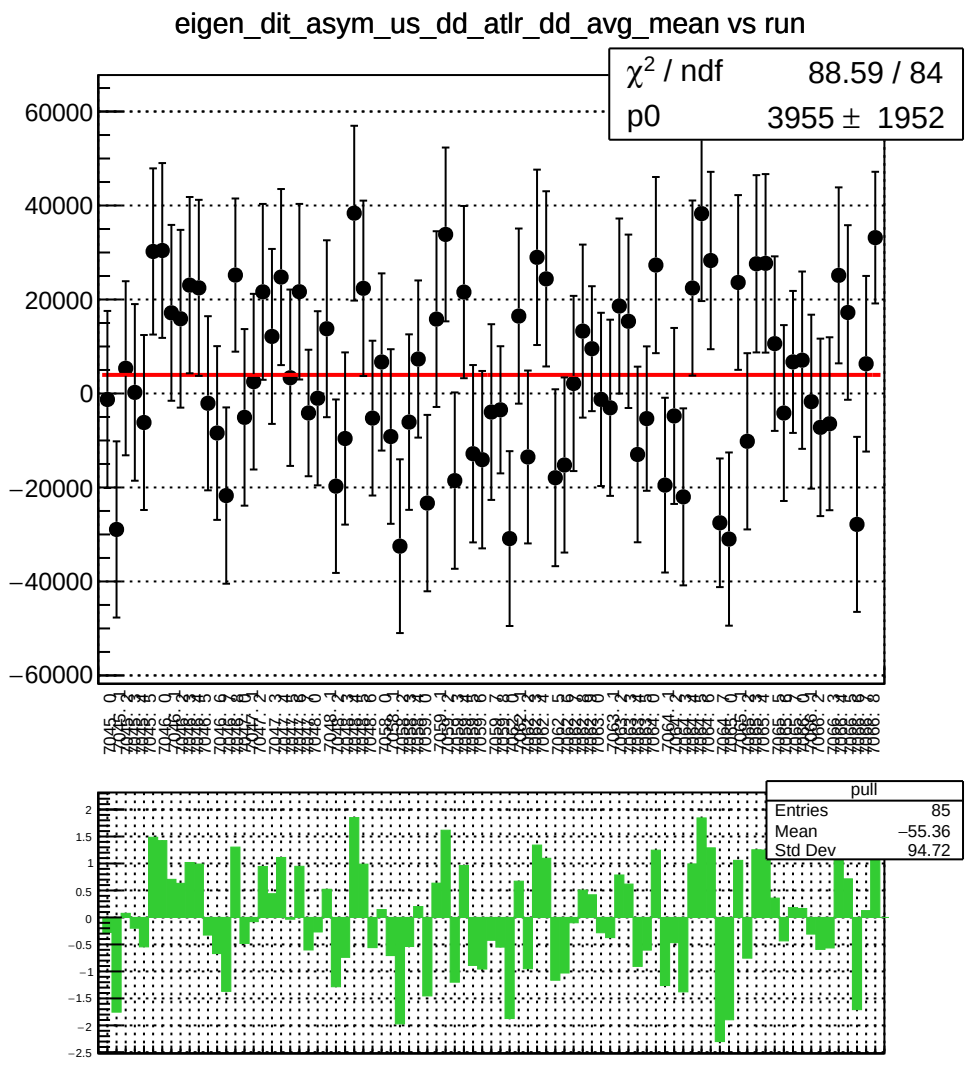

pull1D
Entries 85
Mean 0.003872
Std Dev 1.021

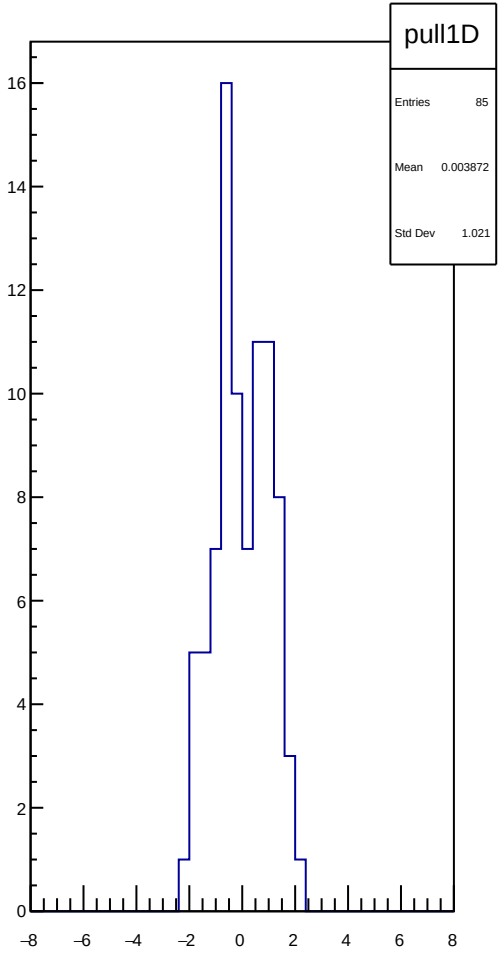

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 96.21 / 84
p0 1772 ± 1.38
1820
1800
1780
1760
1740
1720

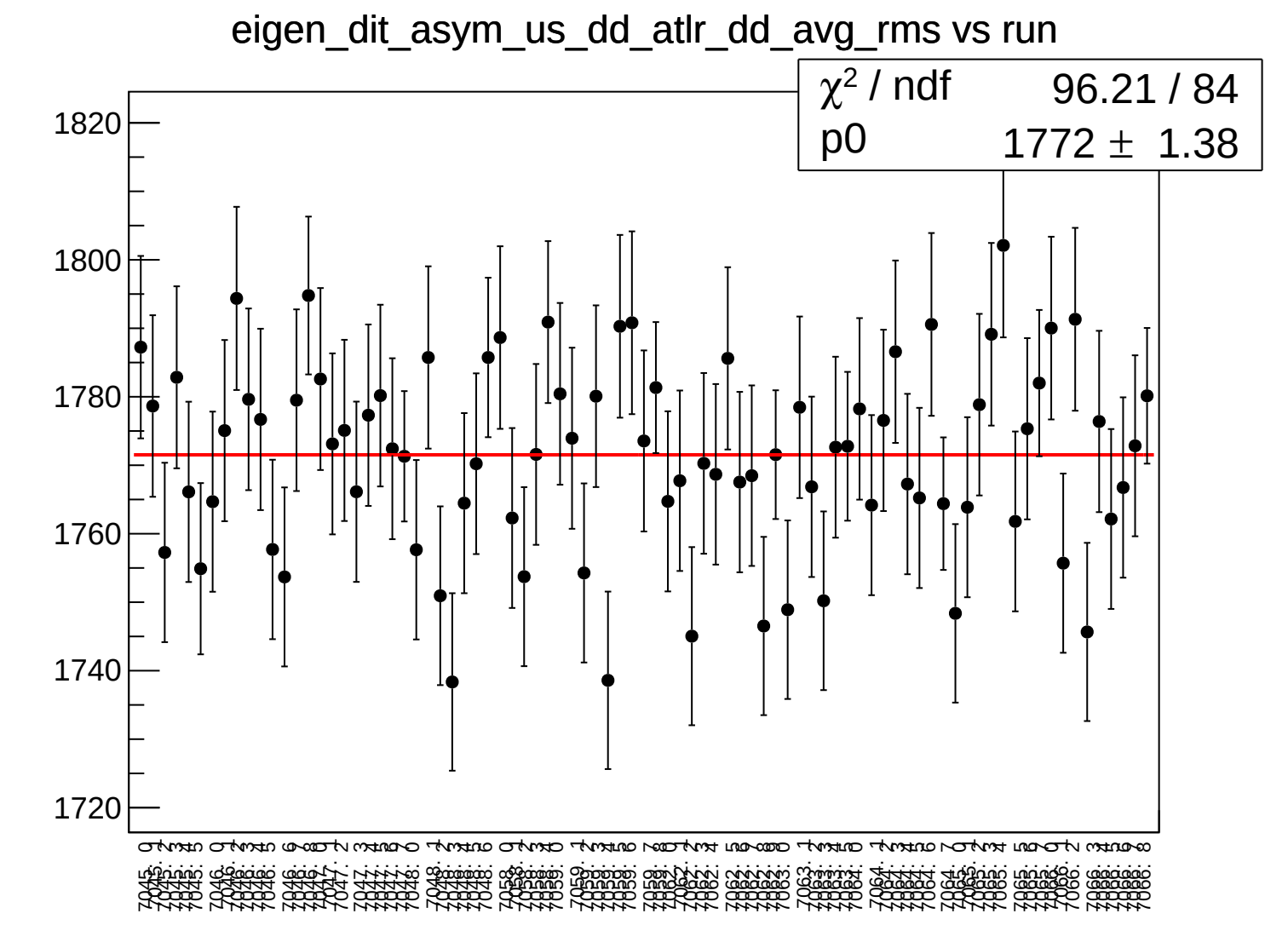

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 77.39 / 84
p0 −1259 ± 846.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −813.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

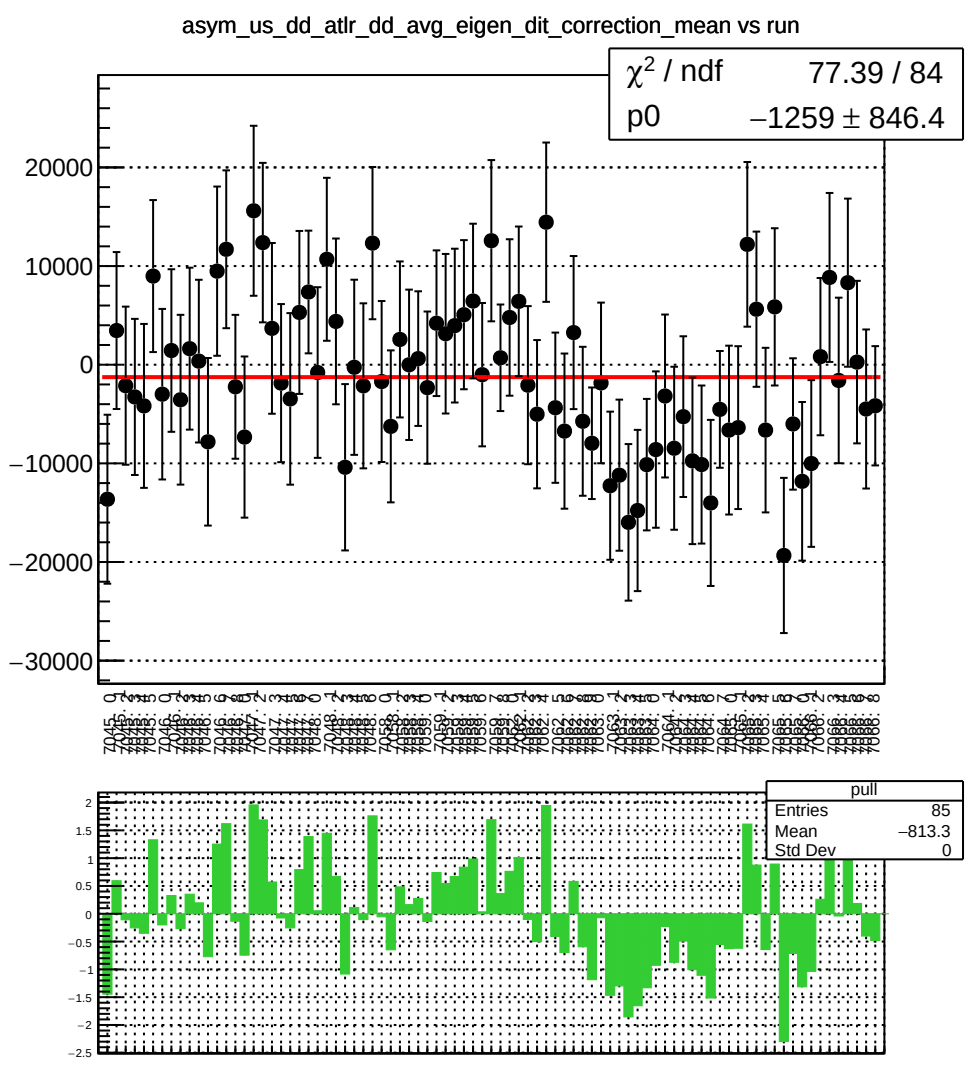

pull1D
Entries 85
Mean 0.007882
Std Dev 0.9541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

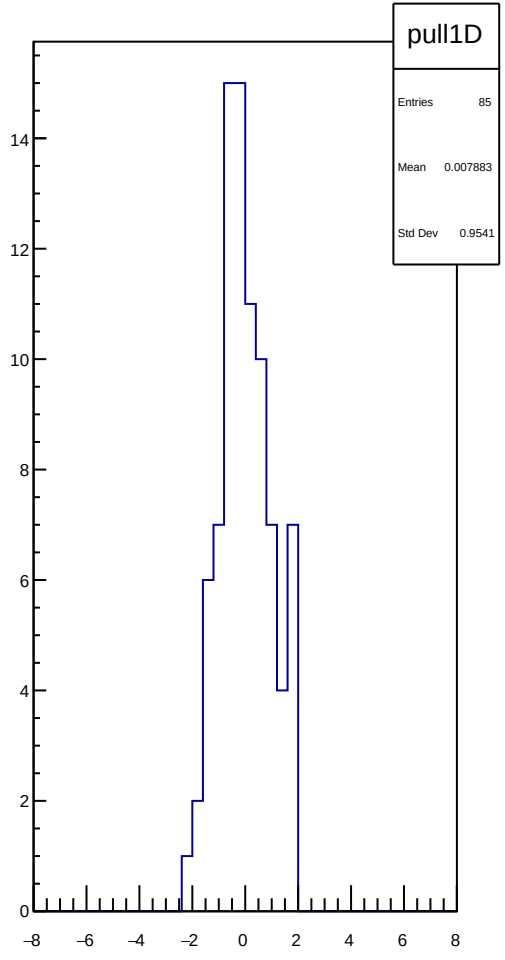

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3179 / 84
p0 767.4 ± 0.5985
860
840
820
800
780
760
740
720
700
680

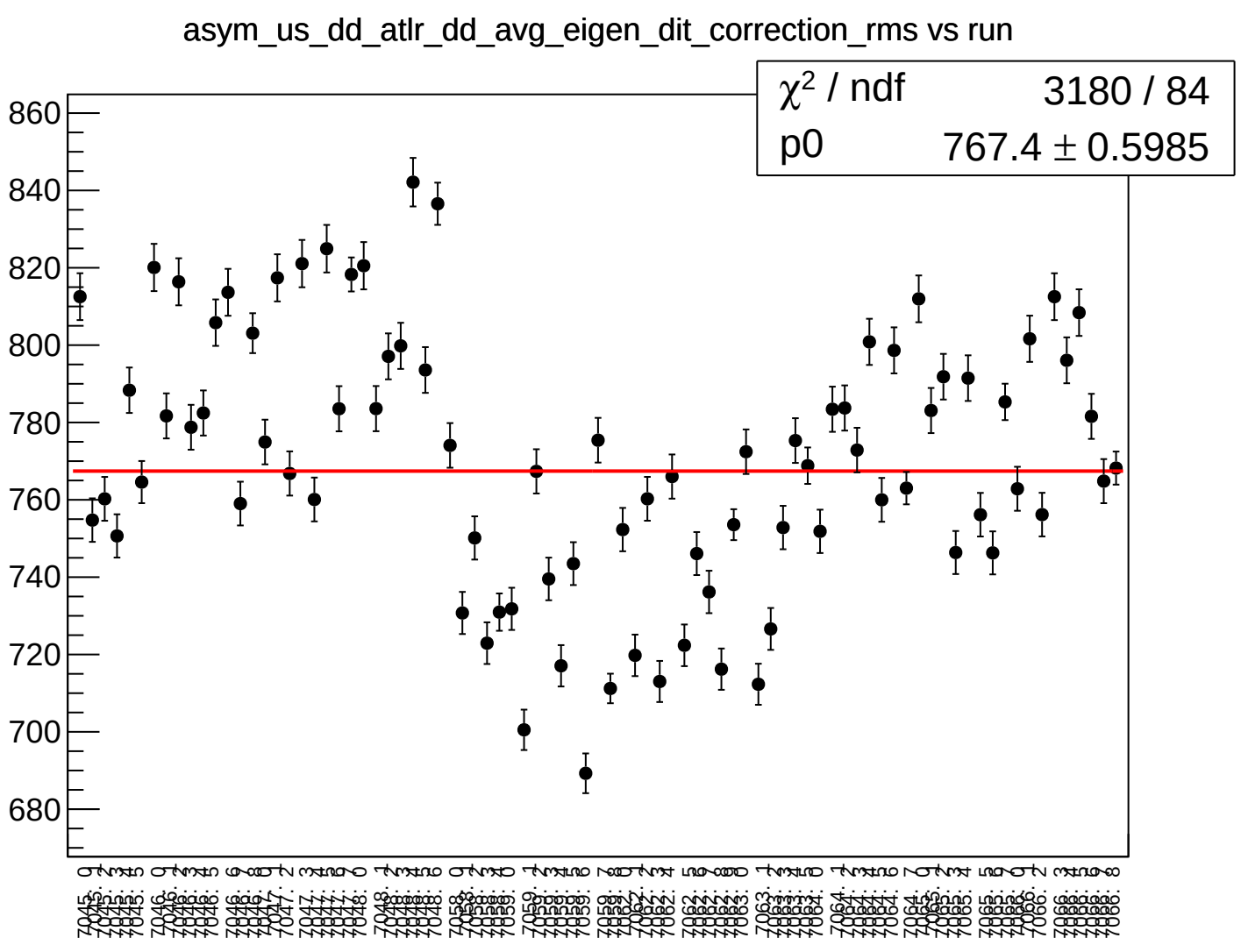

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.59 / 84
p0 3955 ± 1952
pull
Entries 85
Mean −55.36
Std Dev 94.72

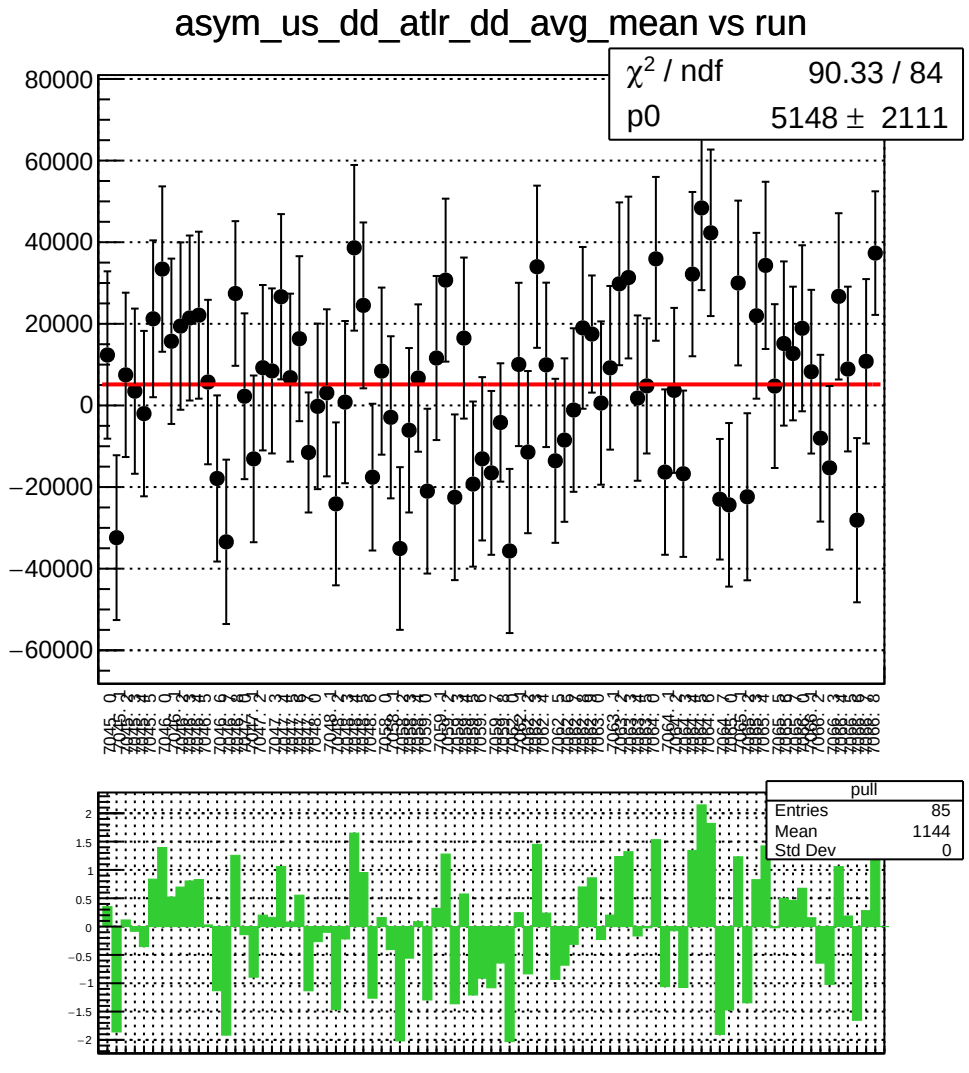

pull1D
Entries 85
Mean 0.003872
Std Dev 1.021

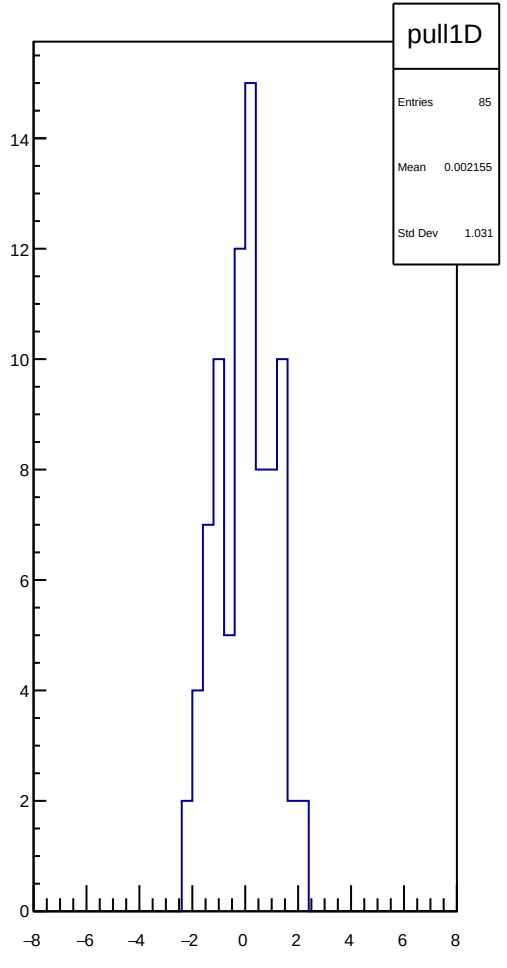

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 96.21 / 84
p0 1772 ± 1.38
1820
1800
1780
1760
1740
1720

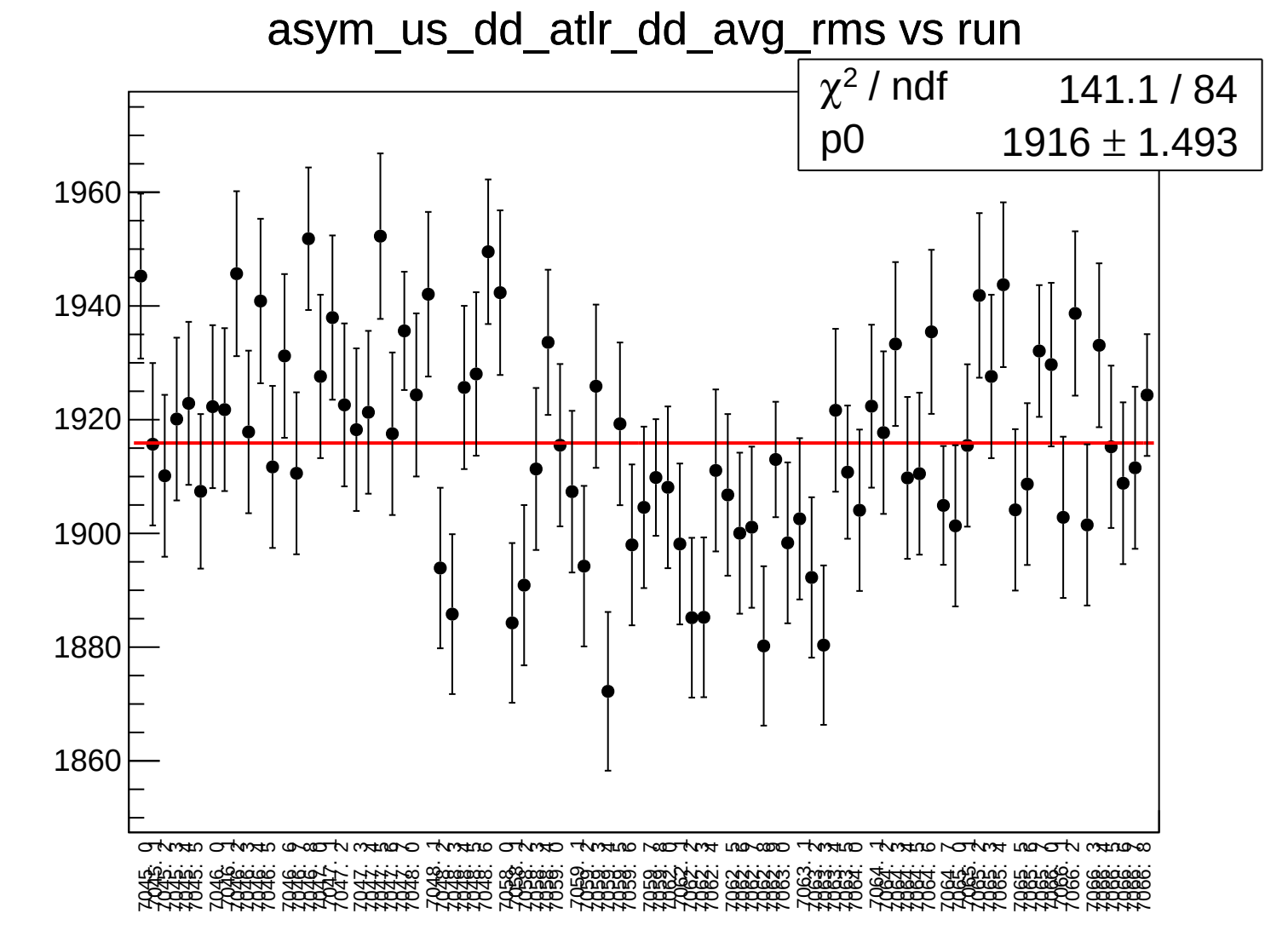

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.39 / 84
p0 −1259 ± 846.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −813.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

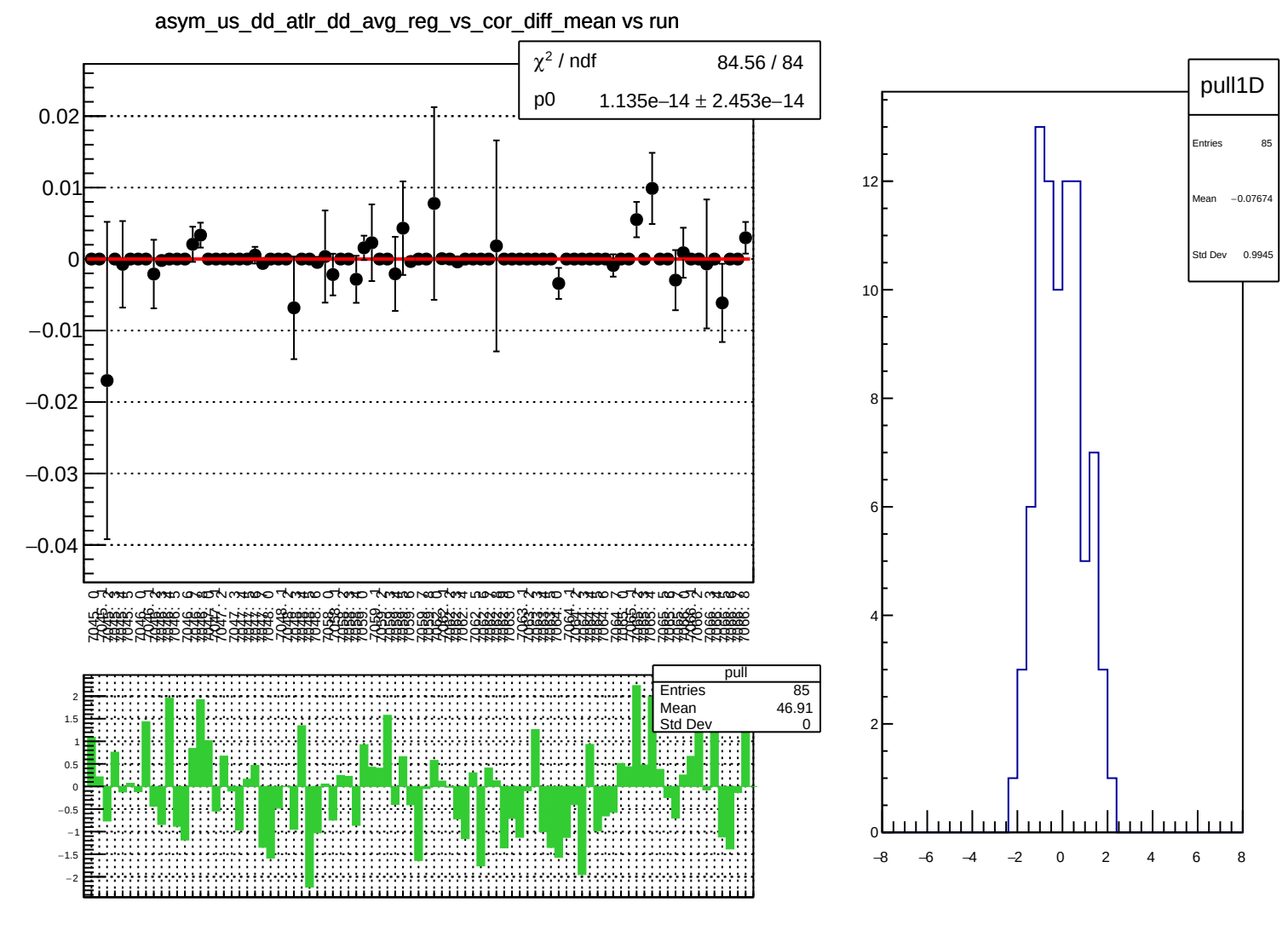

pull1D
Entries 85
Mean 0.007883
Std Dev 0.9541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

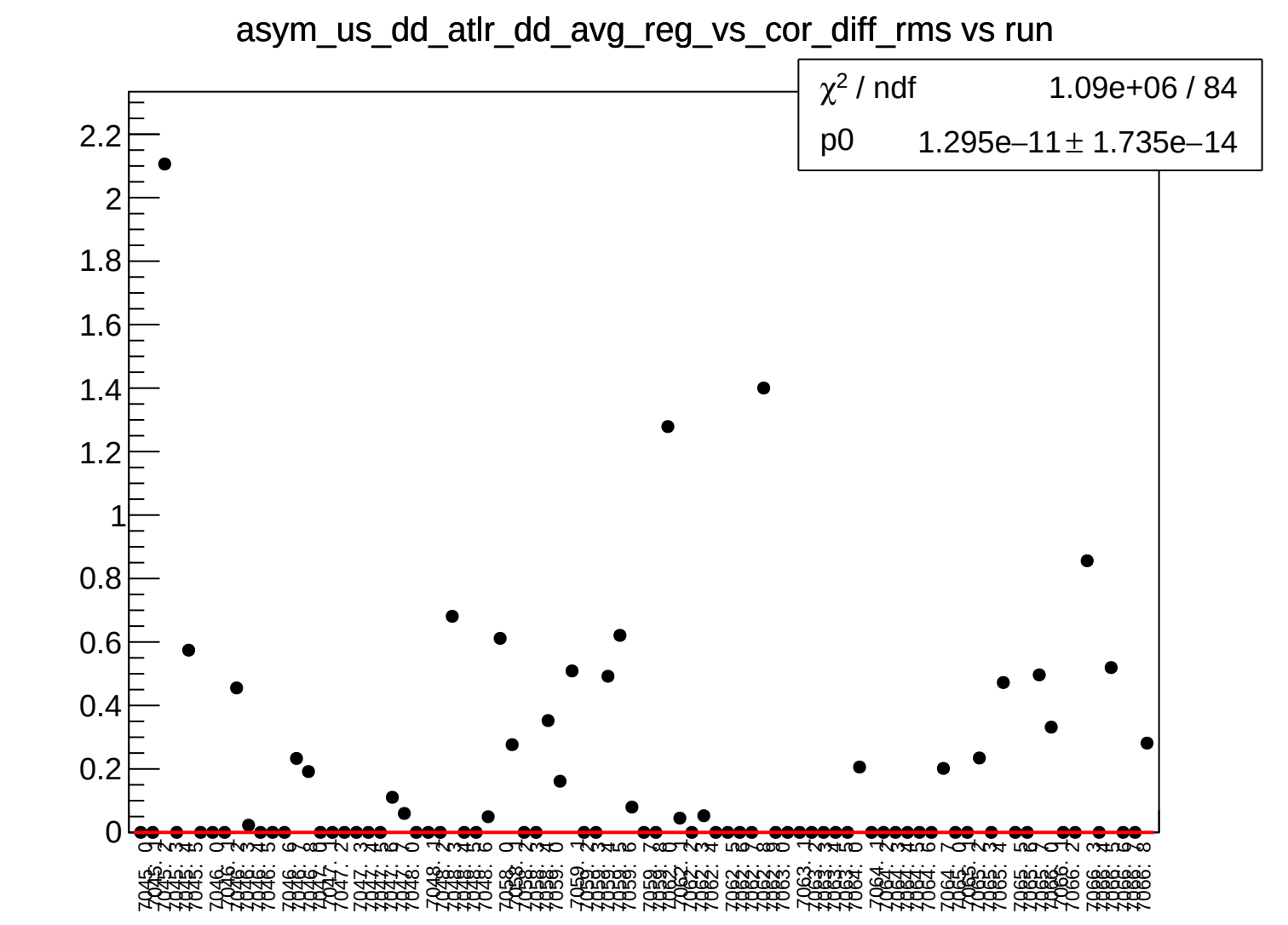

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3180 / 84
p0 767.4 ± 0.5985
860
840
820
800
780
760
740
720
700
680

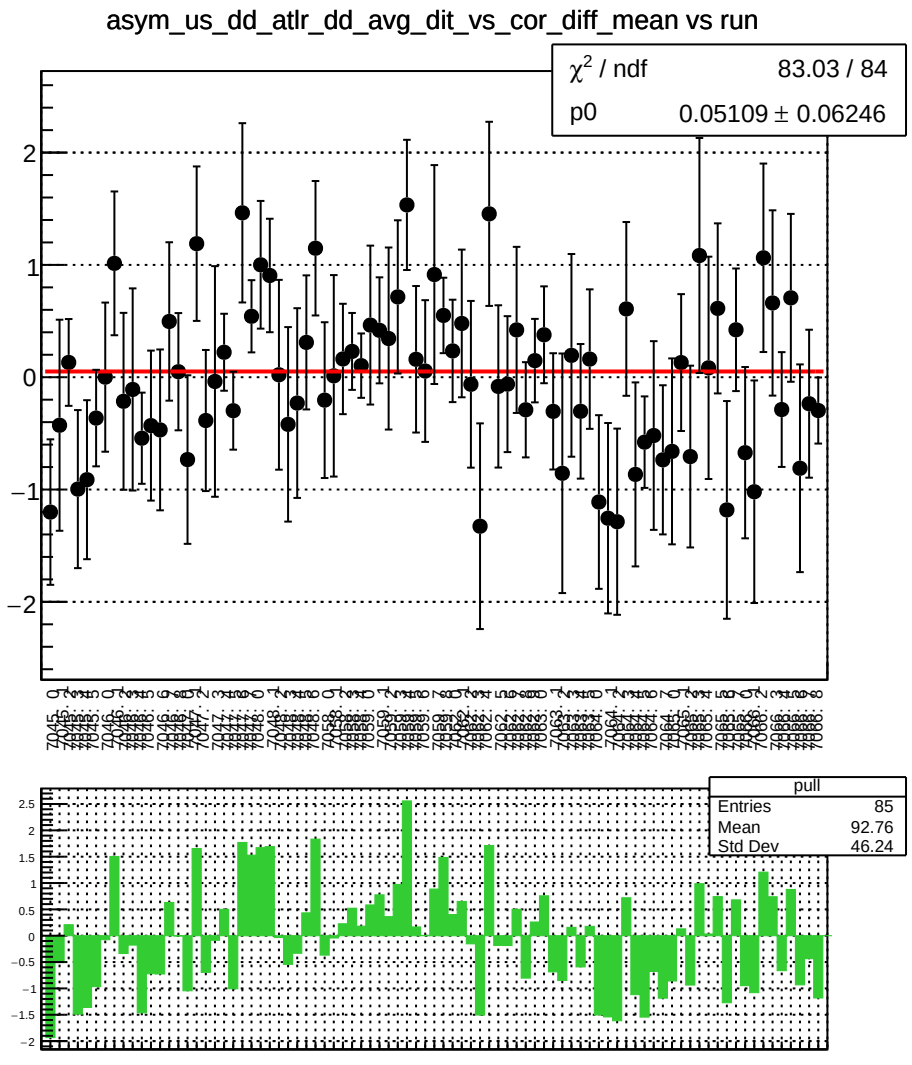

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 90.33 / 84
p0 5148 ± 2111
pull
Entries 85
Mean 1144
Std Dev 0

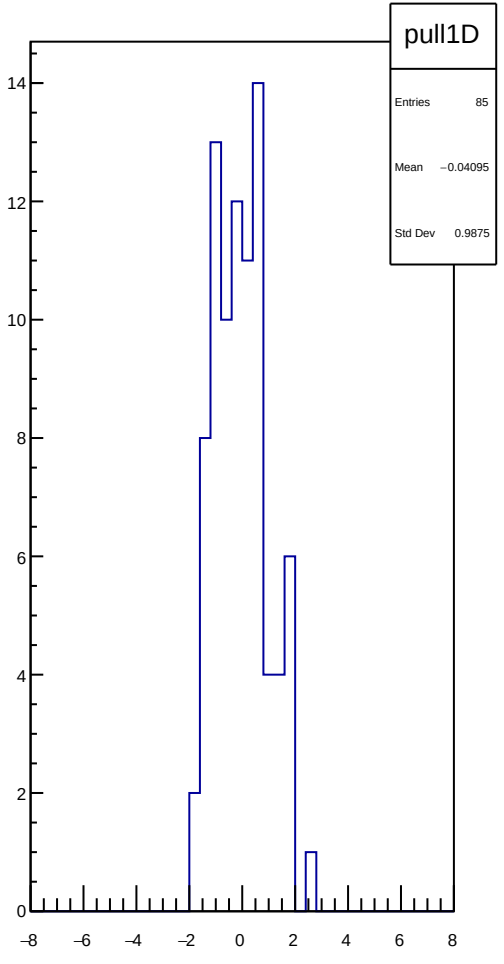

pull1D
Entries 85
Mean 0.002155
Std Dev 1.031

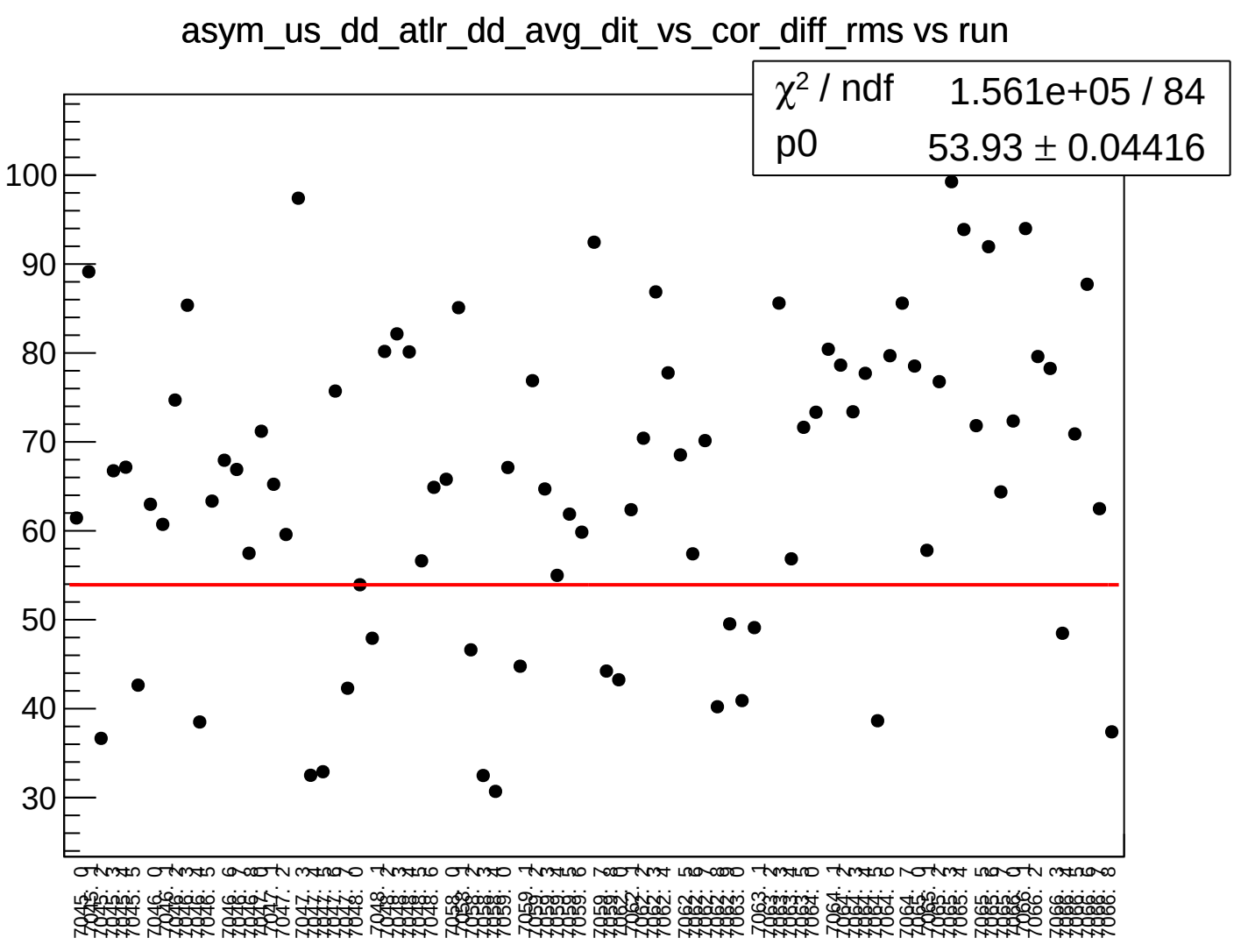

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 141.1 / 84
p0 1916 ± 1.493
1960
1940
1920
1900
1880
1860

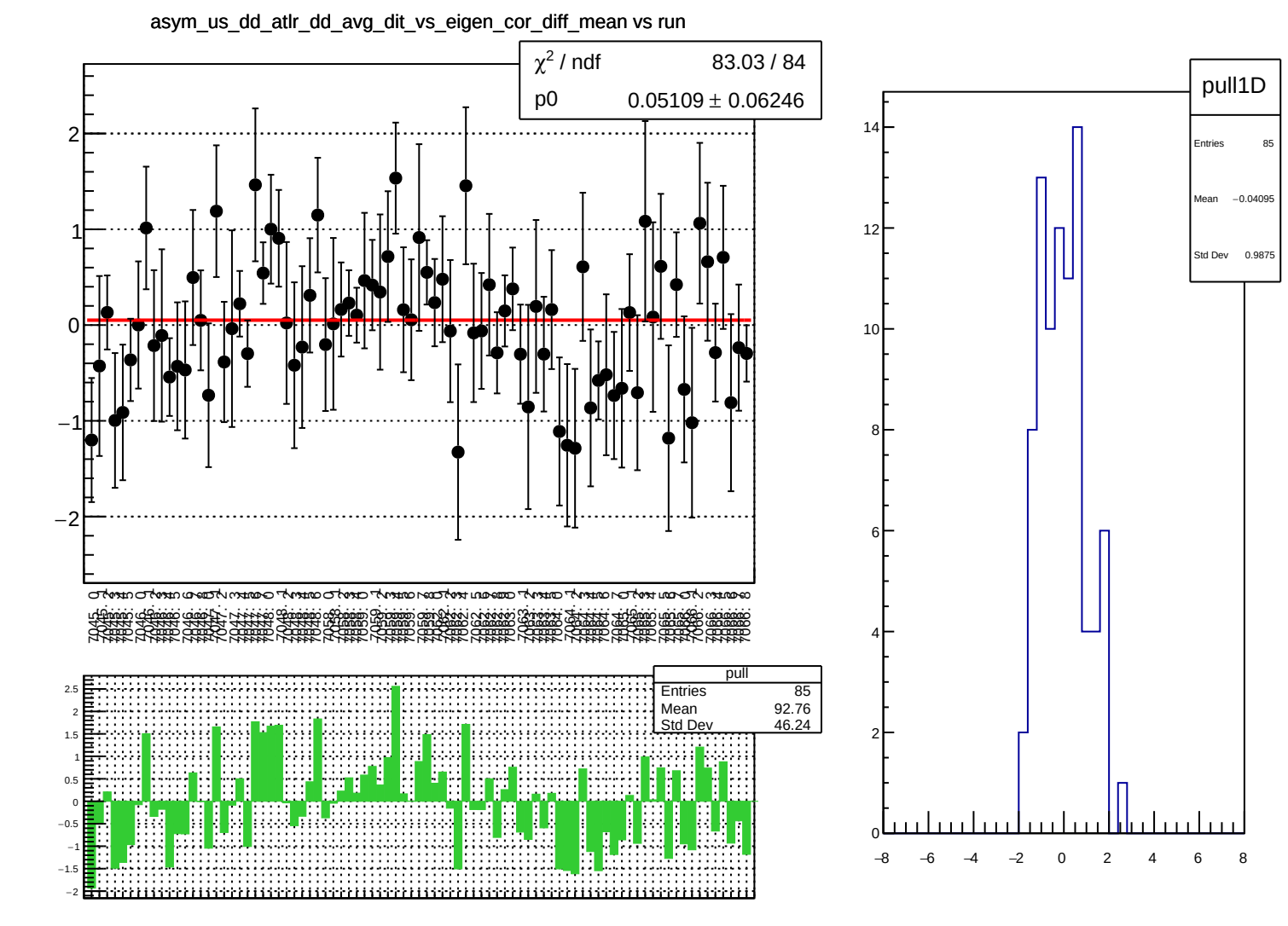

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.56 / 84
p0 1.135e−14 ± 2.453e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean 46.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.07674
Std Dev 0.9945
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

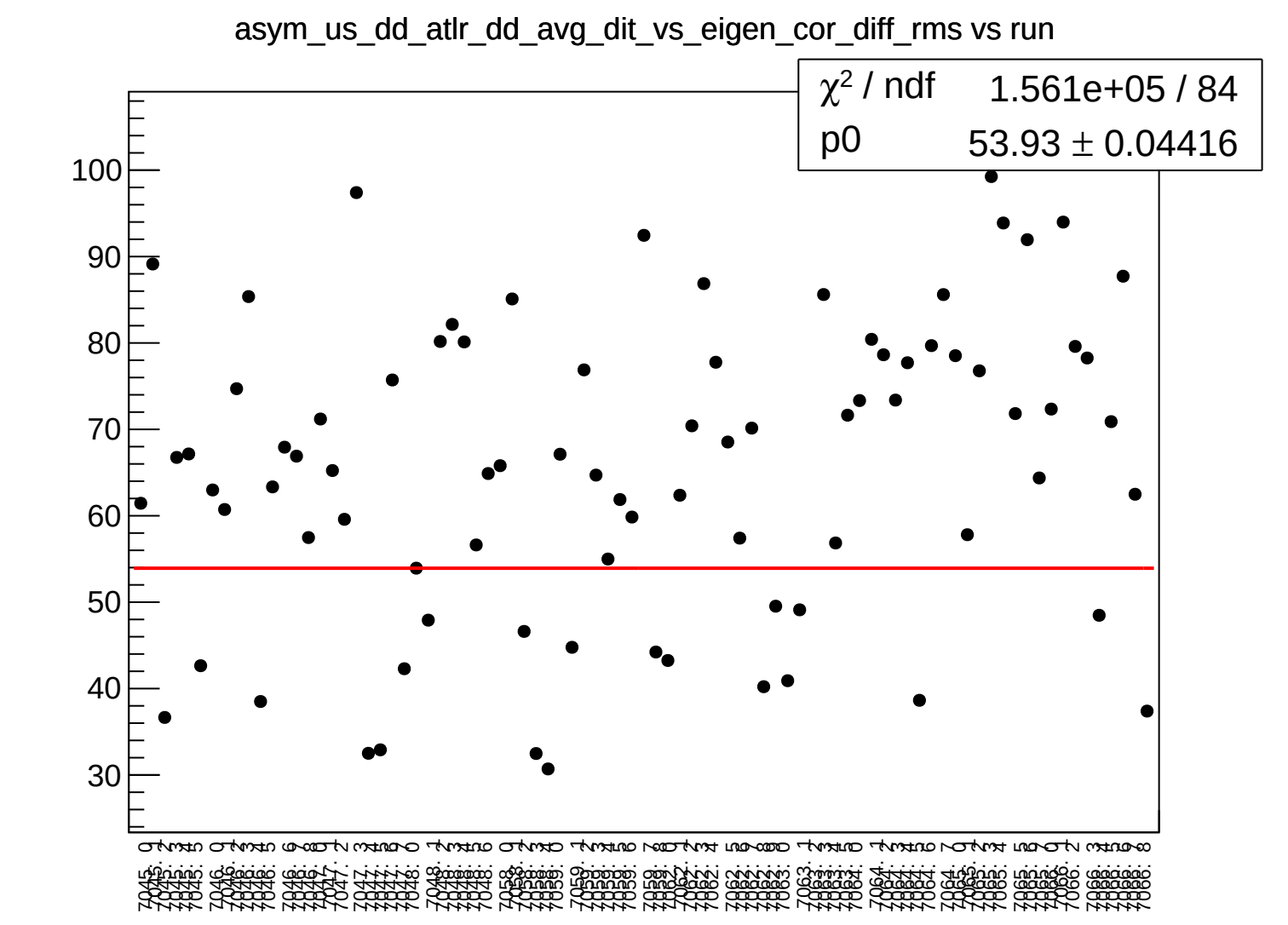

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 84
p0 1.295e−11 ± 1.735e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

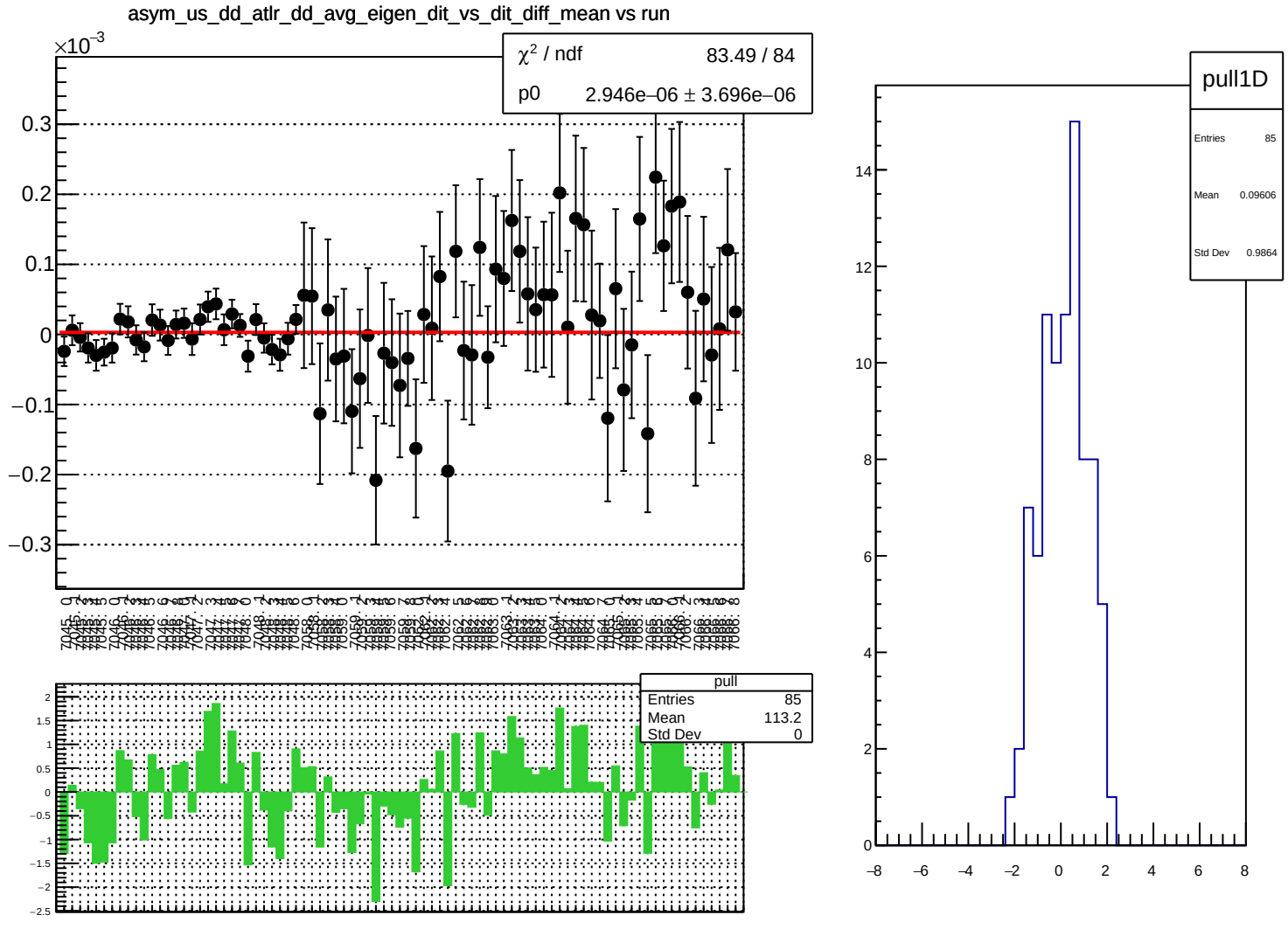

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 0.05109 ± 0.06246
pull
Entries 85
Mean 92.76
Std Dev 46.24

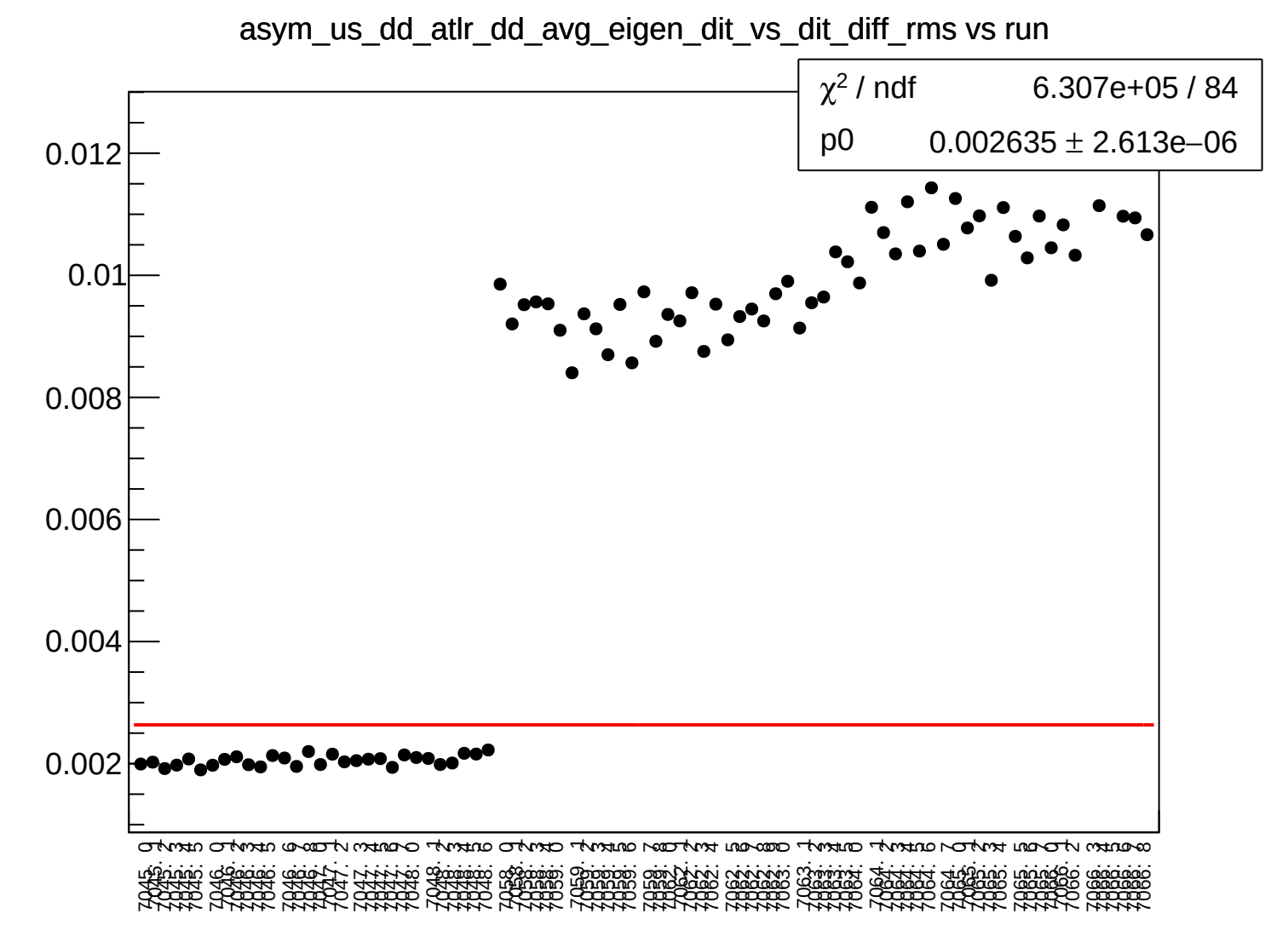

pull1D
Entries 85
Mean −0.04095
Std Dev 0.9875

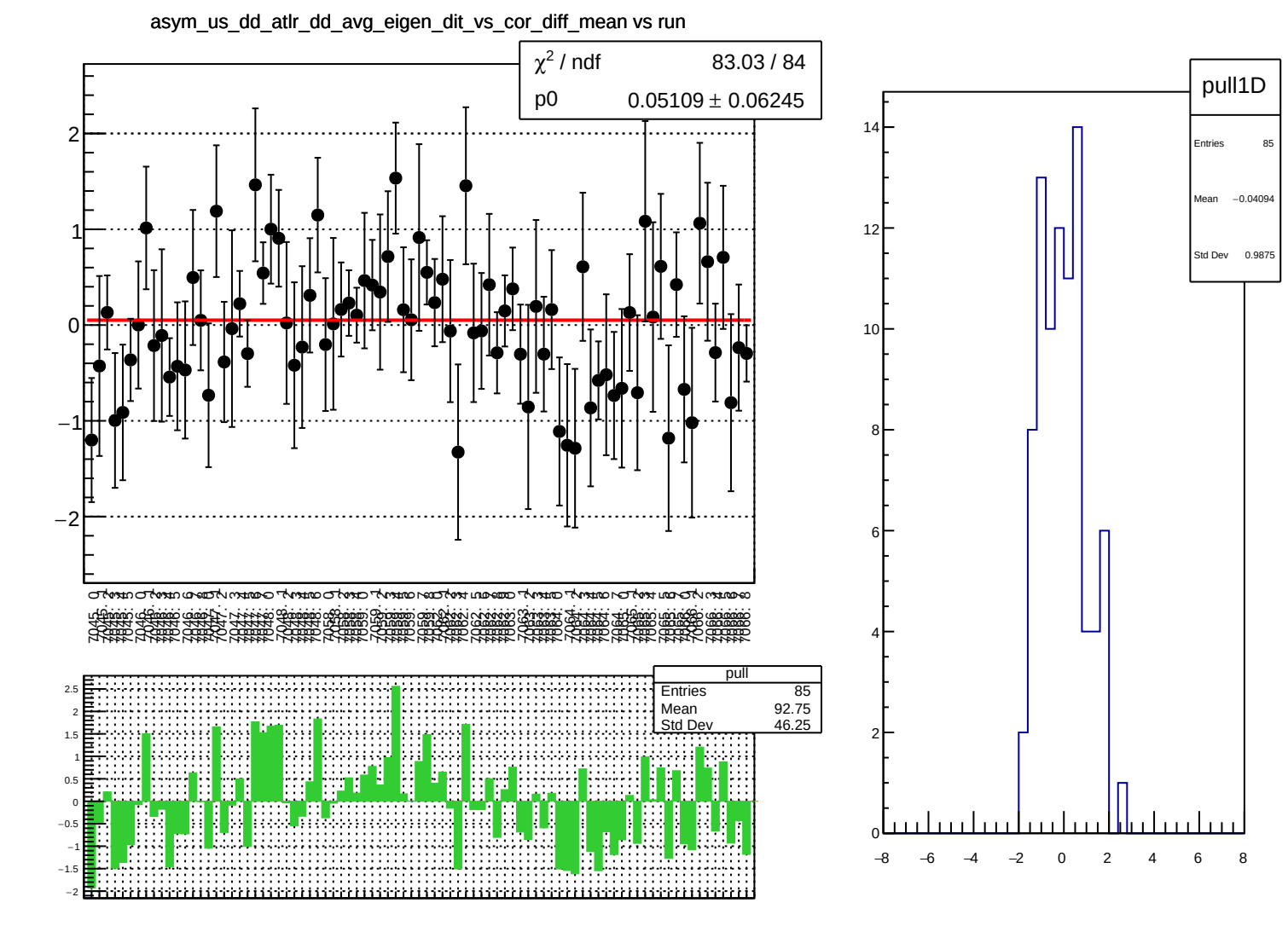

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 84
p0 53.93 ± 0.04416
100
90
80
70
60
50
40
30

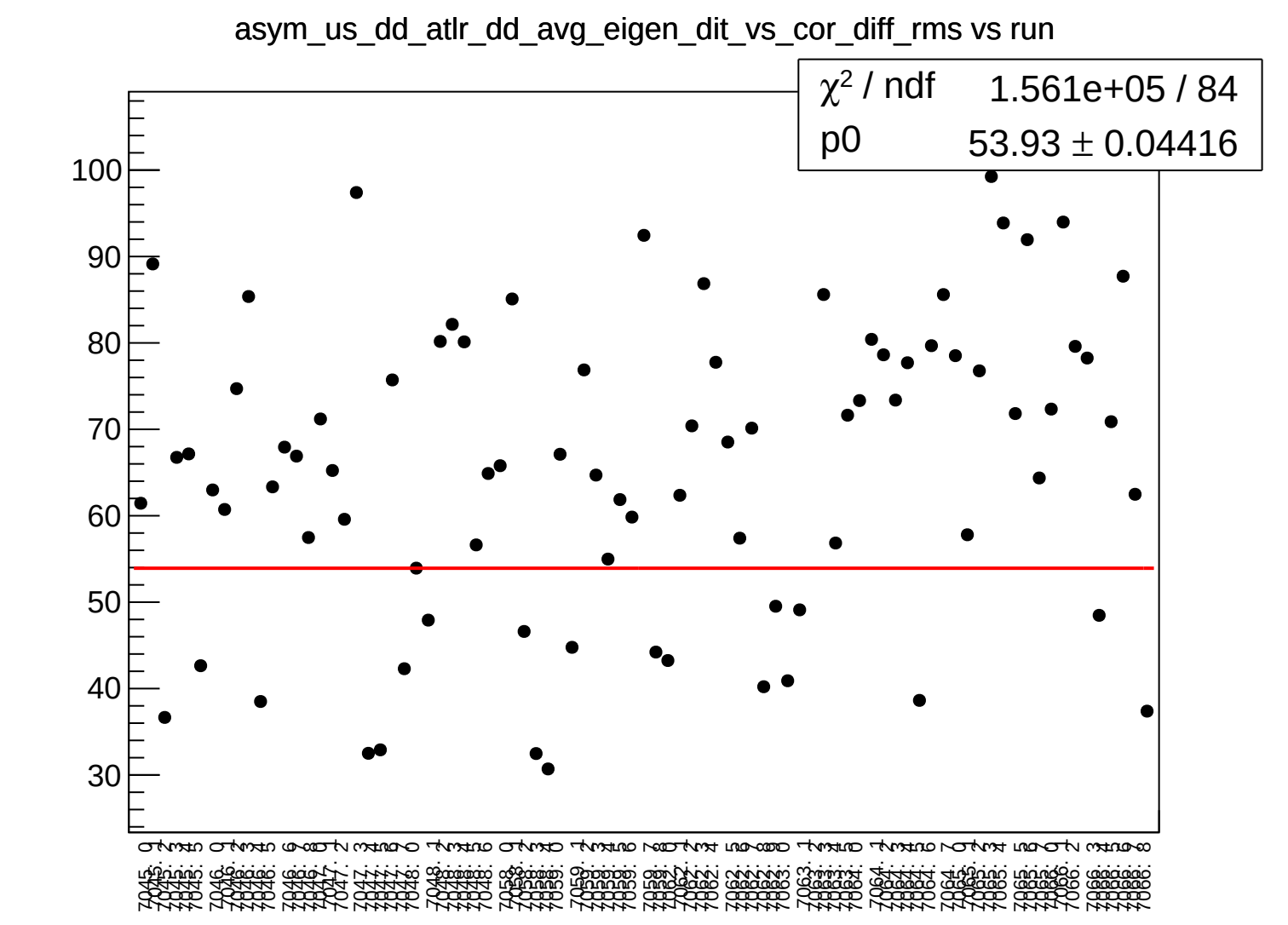

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 0.05109 ± 0.06246
pull
Entries 85
Mean 92.76
Std Dev 46.24
pull1D
Entries 85
Mean −0.04095
Std Dev 0.9875

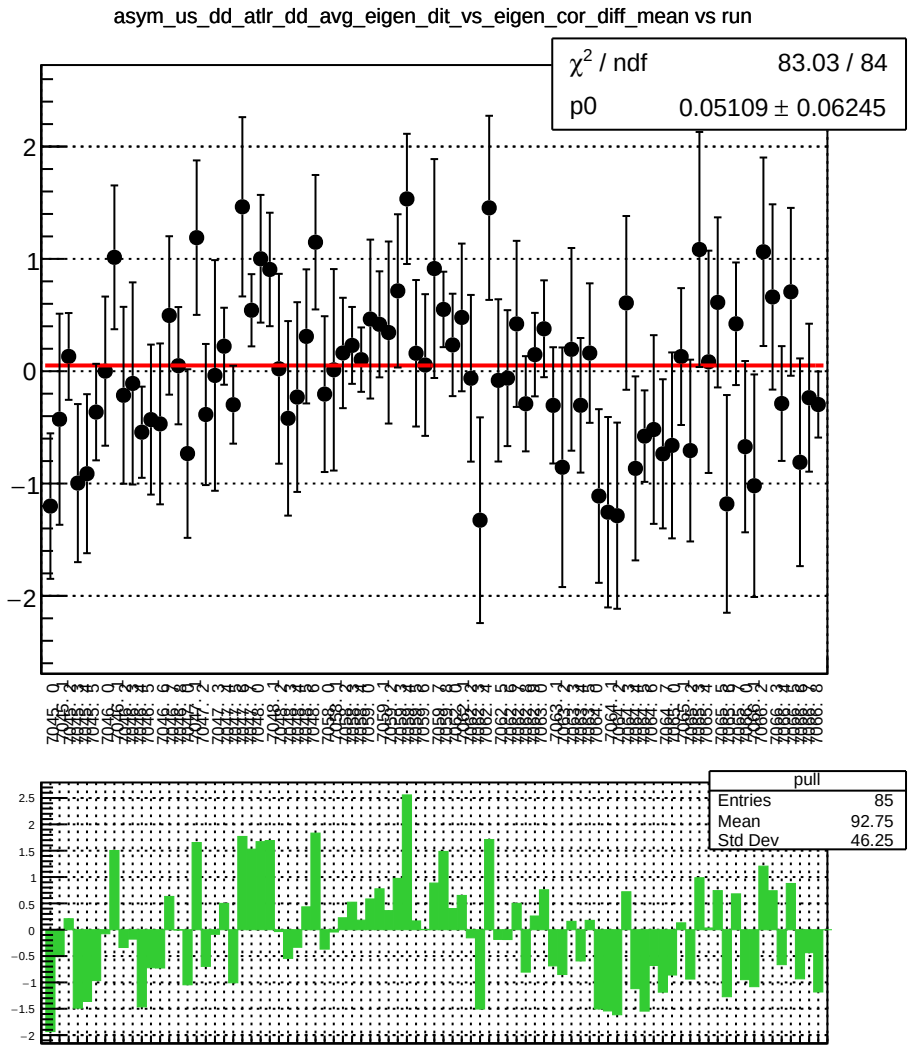

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 84
p0 53.93 ± 0.04416
100
90
80
70
60
50
40
30

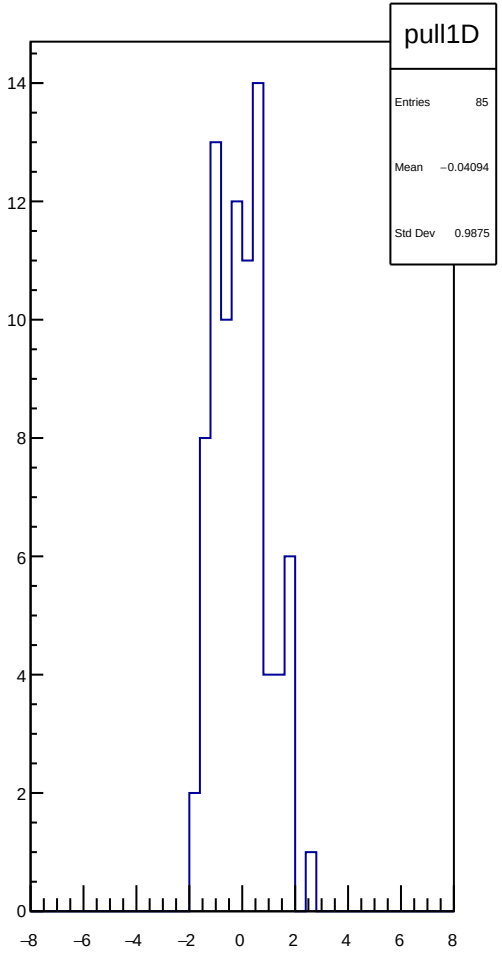

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 83.49 / 84
p0 2.946e−06 ± 3.696e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 85
Mean 113.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.09606
Std Dev 0.9864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

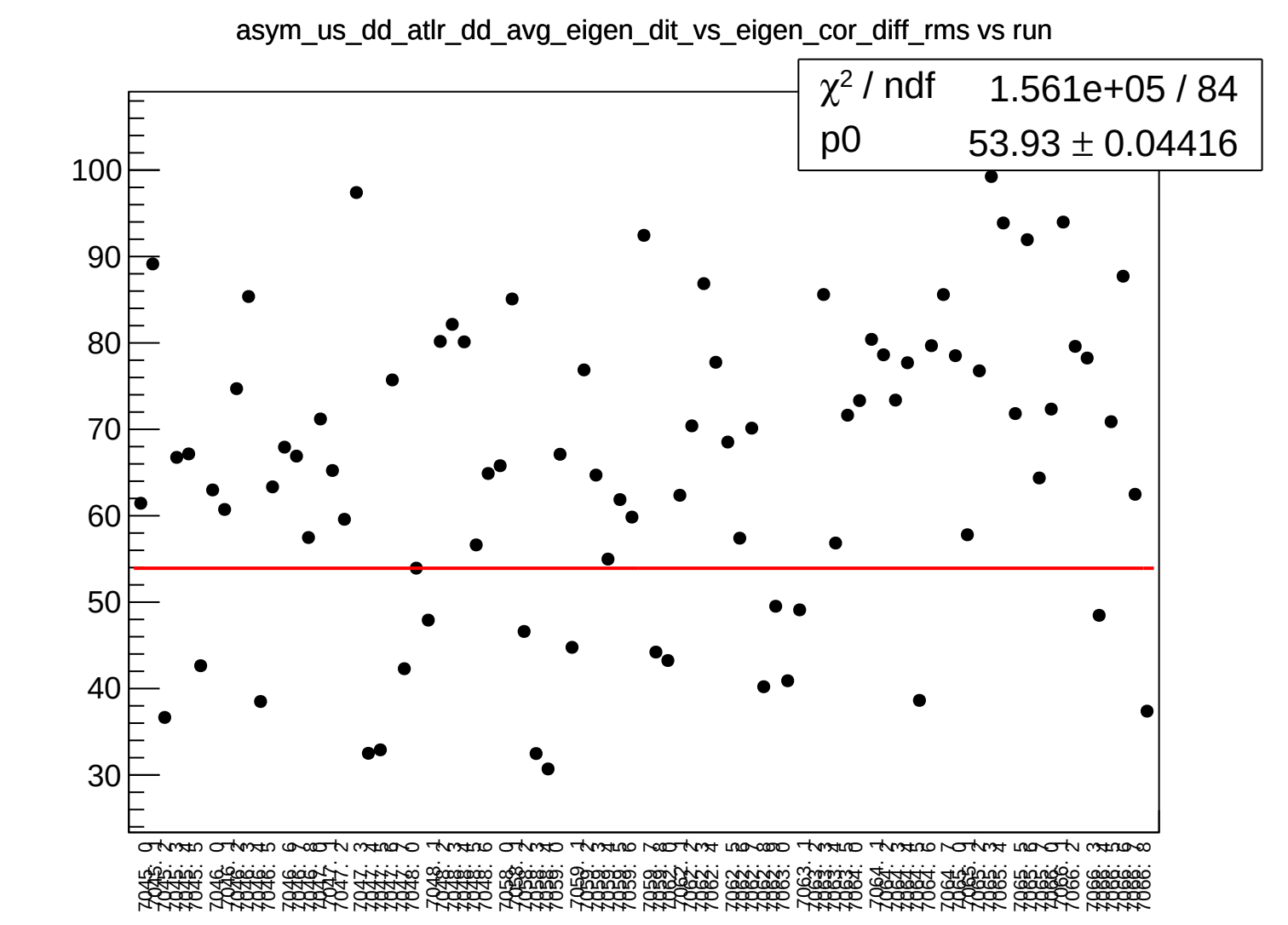

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.307e+05 / 84
p0 0.002635 ± 2.613e−06
0.012
0.01
0.008
0.006
0.004
0.002

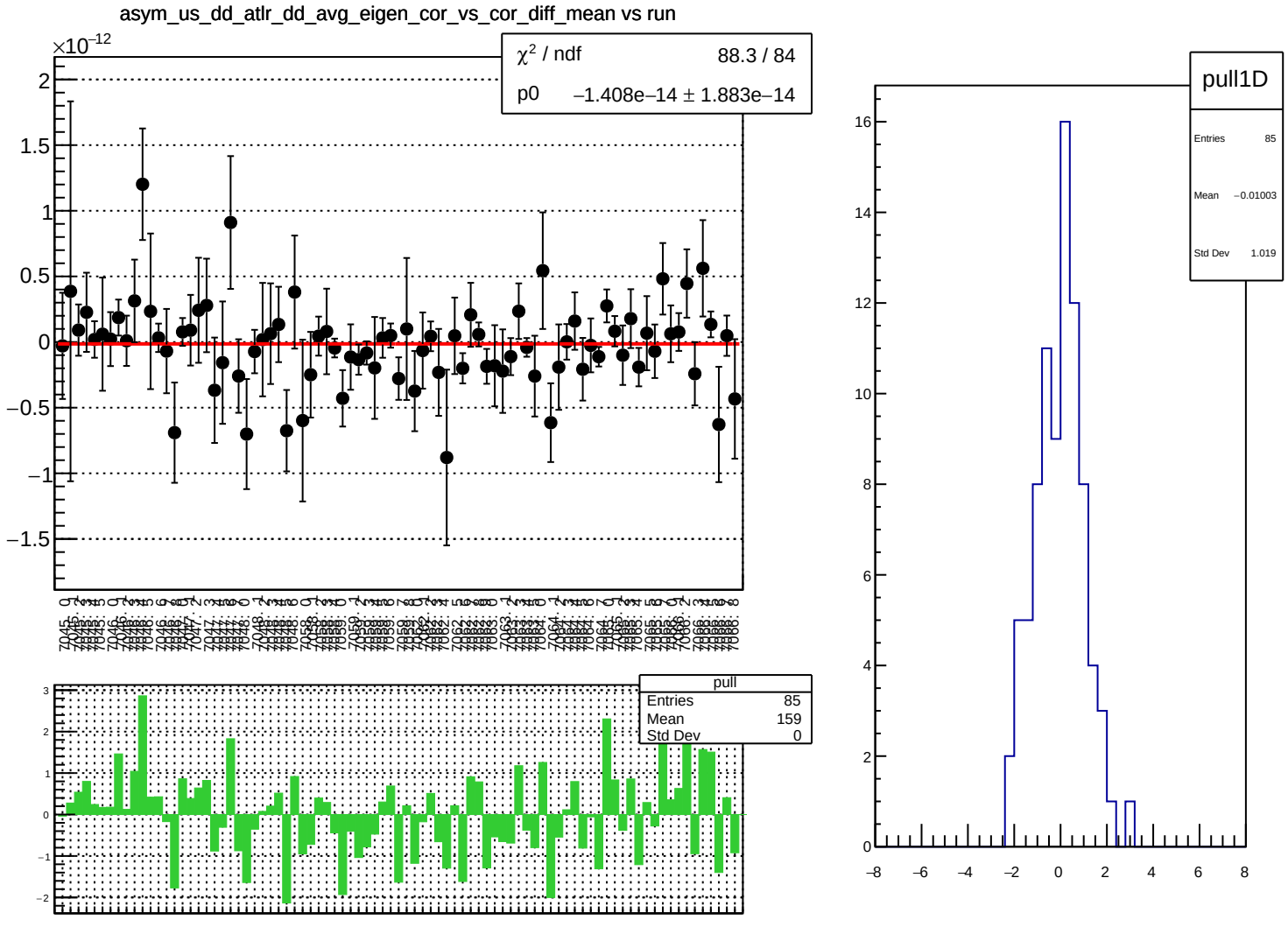

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 84
p0 0.05109 ± 0.06245
pull
Entries 85
Mean 92.75
Std Dev 46.25
pull1D
Entries 85
Mean −0.04094
Std Dev 0.9875

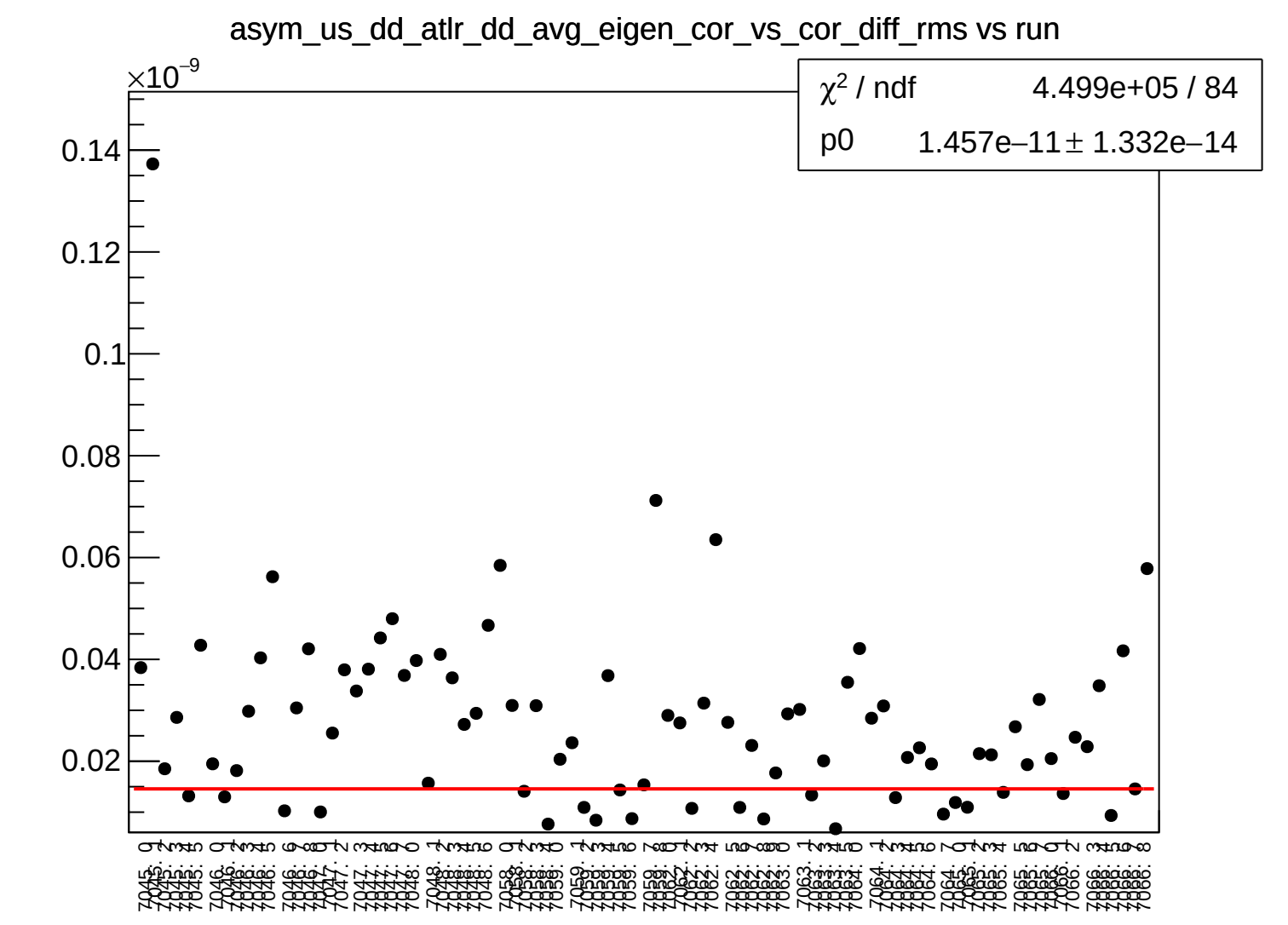

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 84
p0 53.93 ± 0.04416
100
90
80
70
60
50
40
30

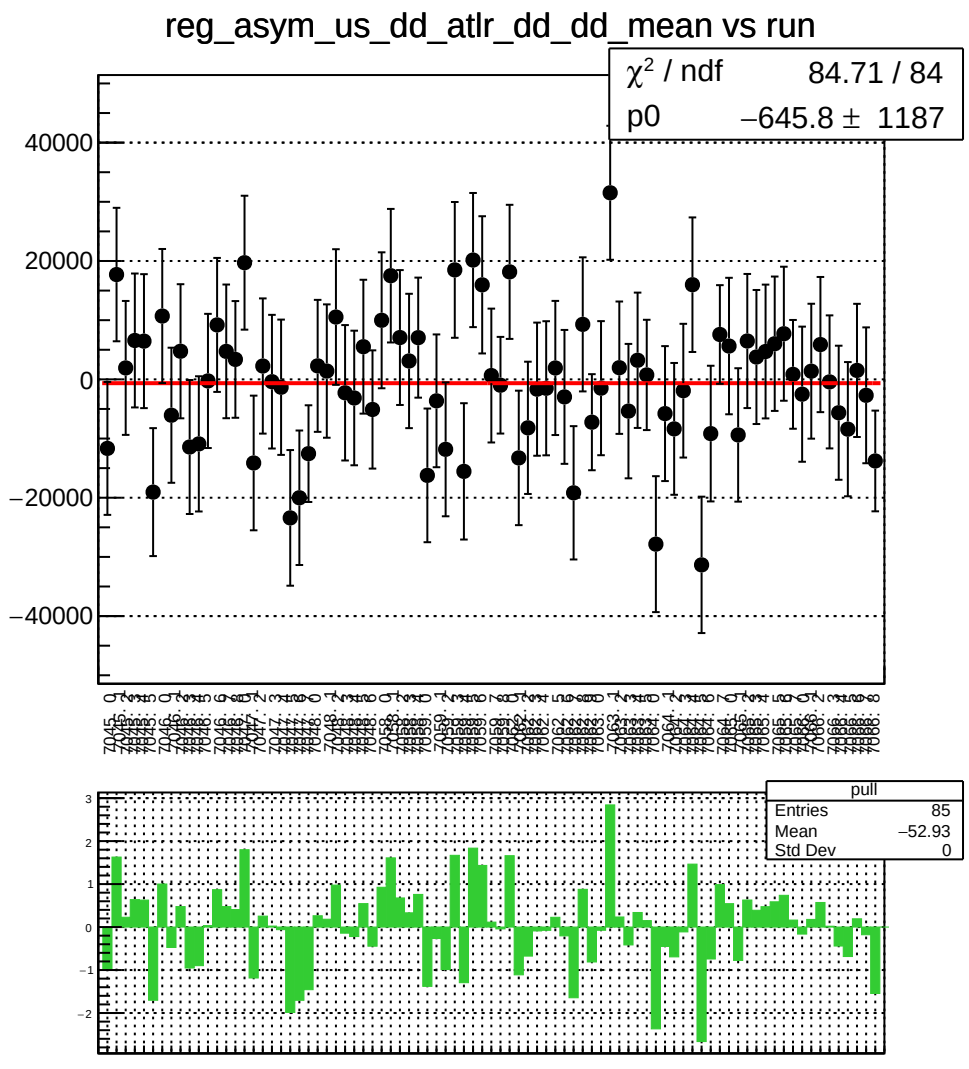

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 83.03 / 84
p0 0.05109 ± 0.06245
pull
Entries 85
Mean 92.75
Std Dev 46.25

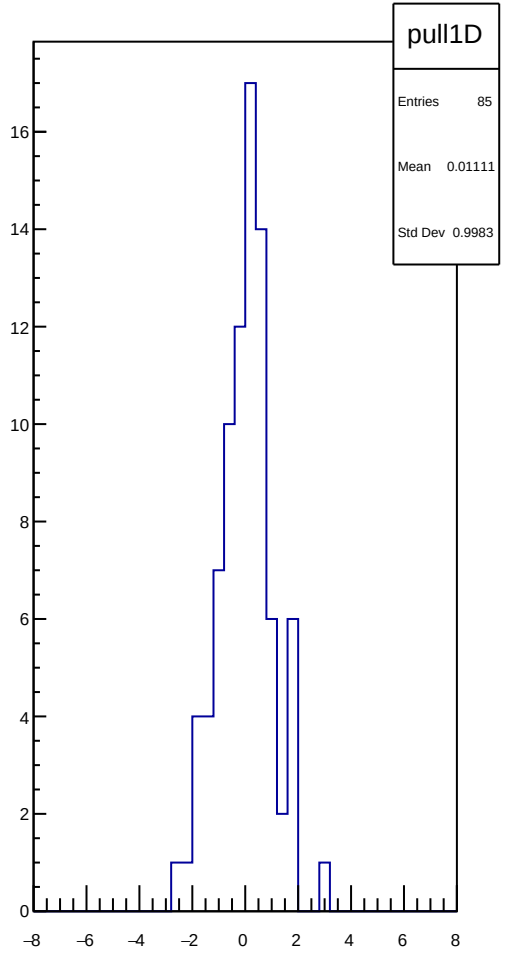

pull1D
Entries 85
Mean −0.04094
Std Dev 0.9875

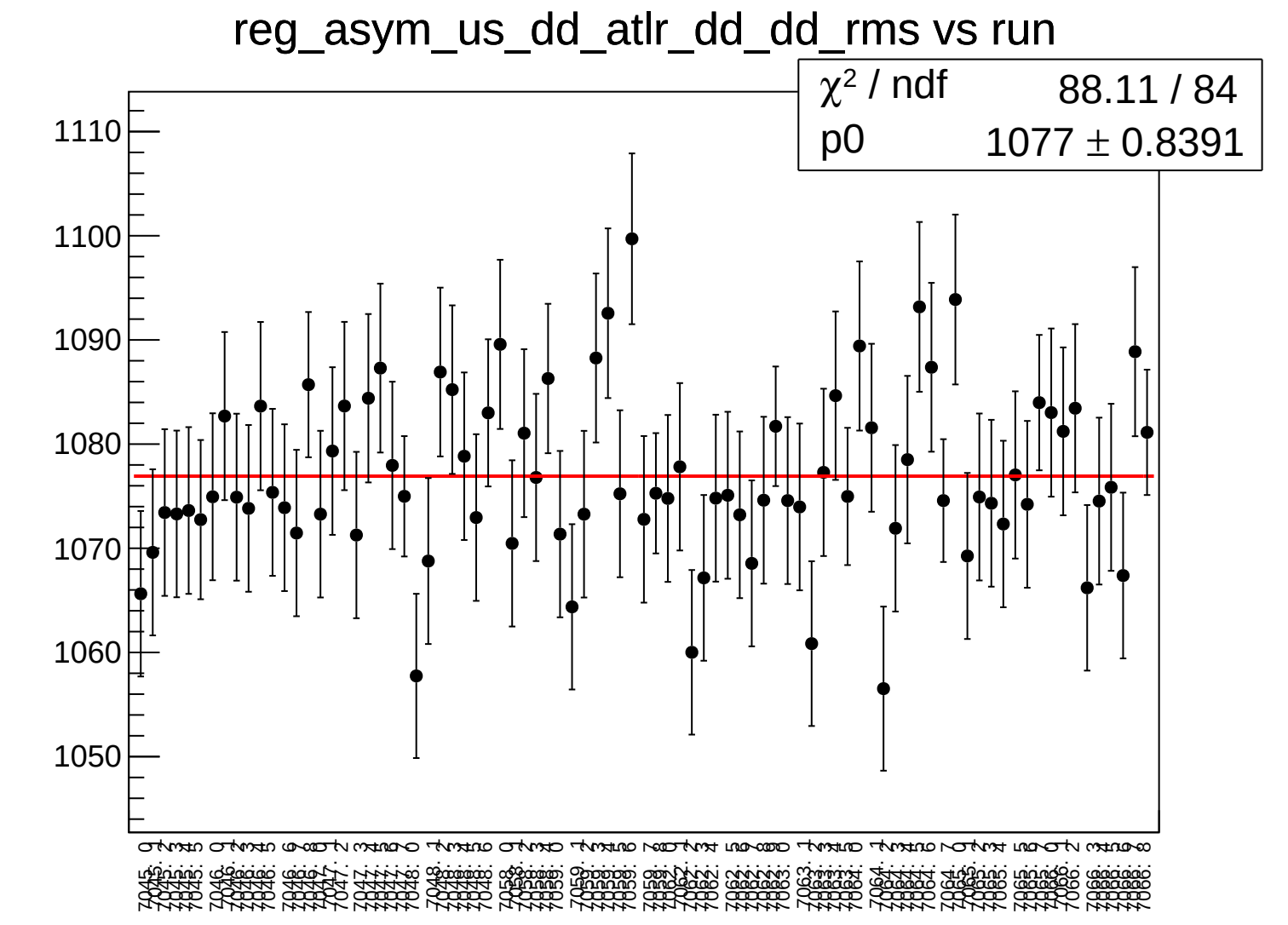

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.561e+05 / 84
p0 53.93 ± 0.04416
100
90
80
70
60
50
40
30

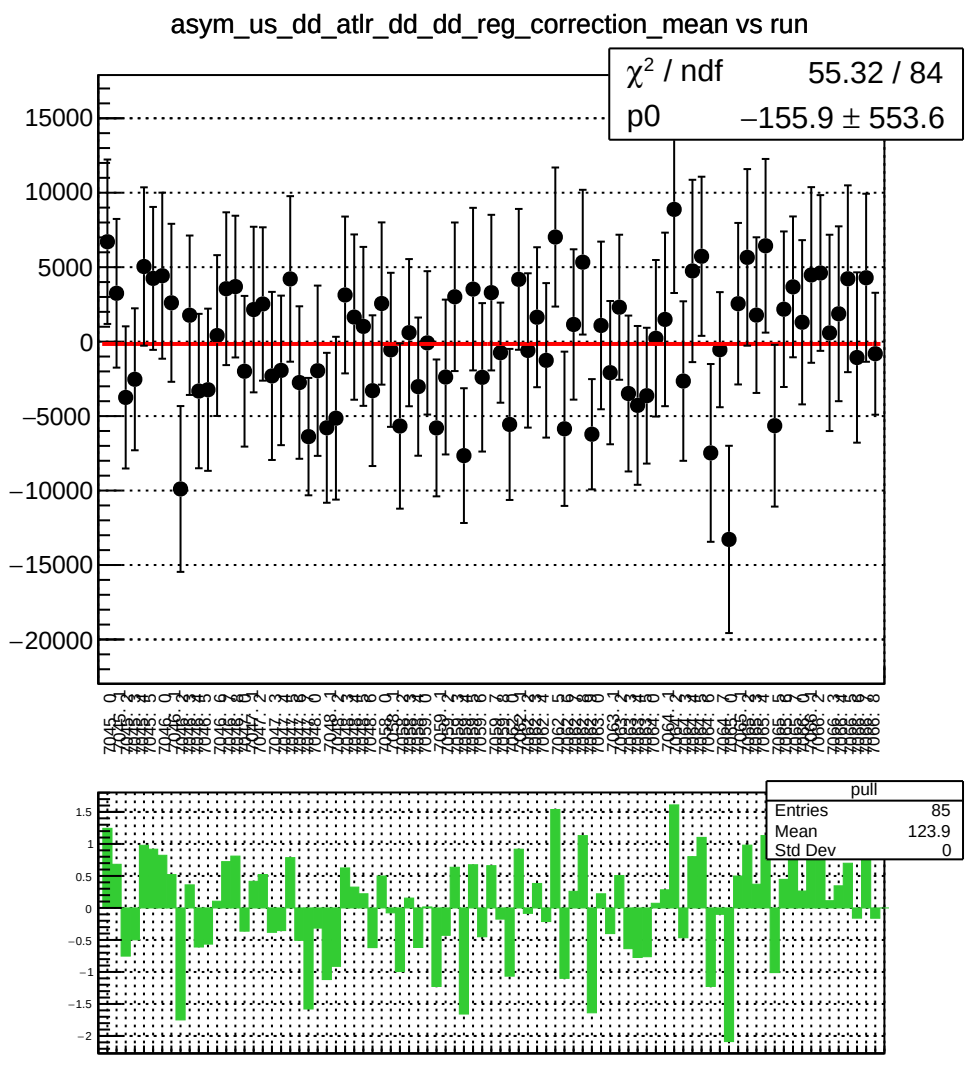

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.3 / 84
p0 −1.408e−14 ± 1.883e−14
pull
Entries 85
Mean 159
Std Dev 0
pull1D
Entries 85
Mean −0.01003
Std Dev 1.019

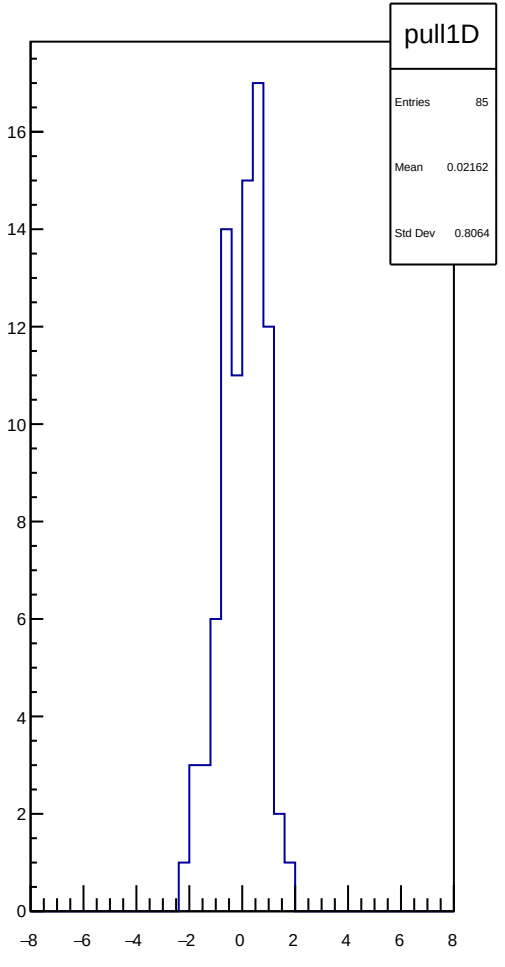

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.499e+05 / 84
p0 1.457e−11 ± 1.332e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

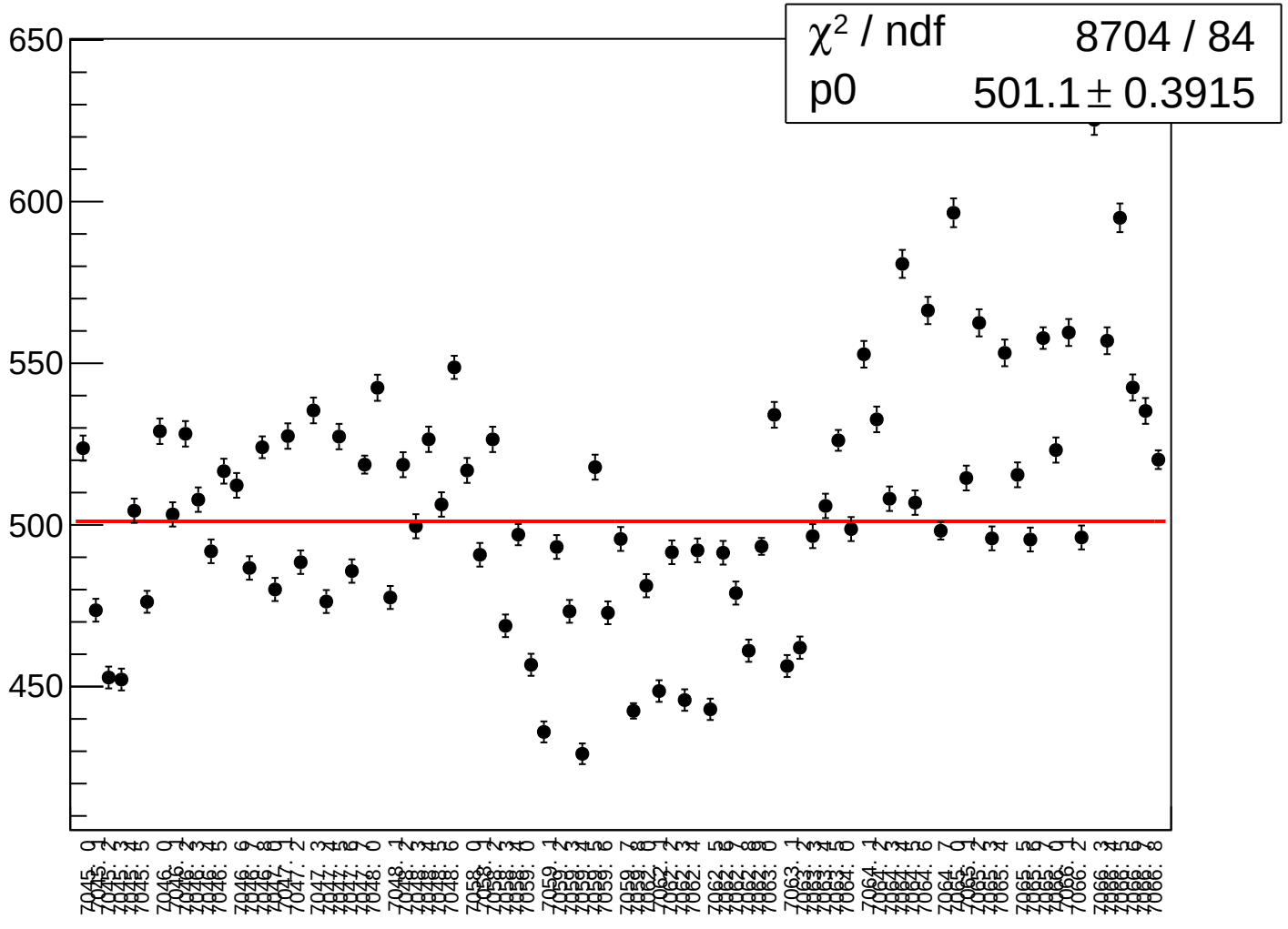

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.71 / 84
p0 −645.8 ± 1187
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −52.93
Std Dev 0
3
2
1
0
−1
−2

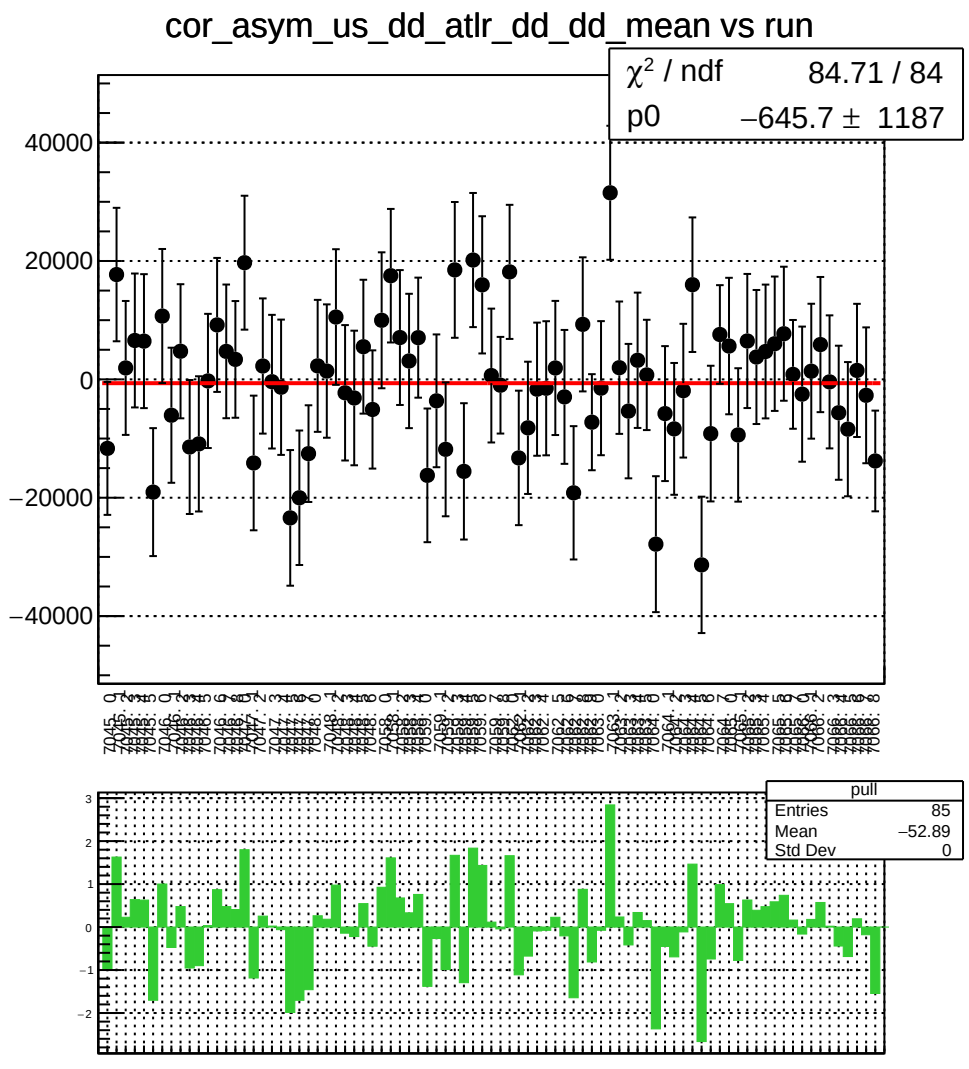

pull1D
Entries 85
Mean 0.01111
Std Dev 0.9983
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

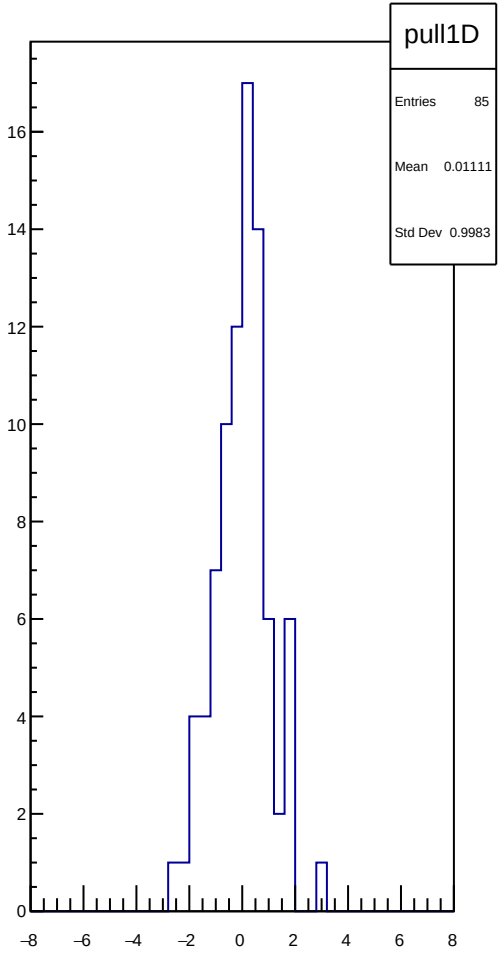

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 88.11 / 84
p0 1077 ± 0.8391
1110
1100
1090
1080
1070
1060
1050

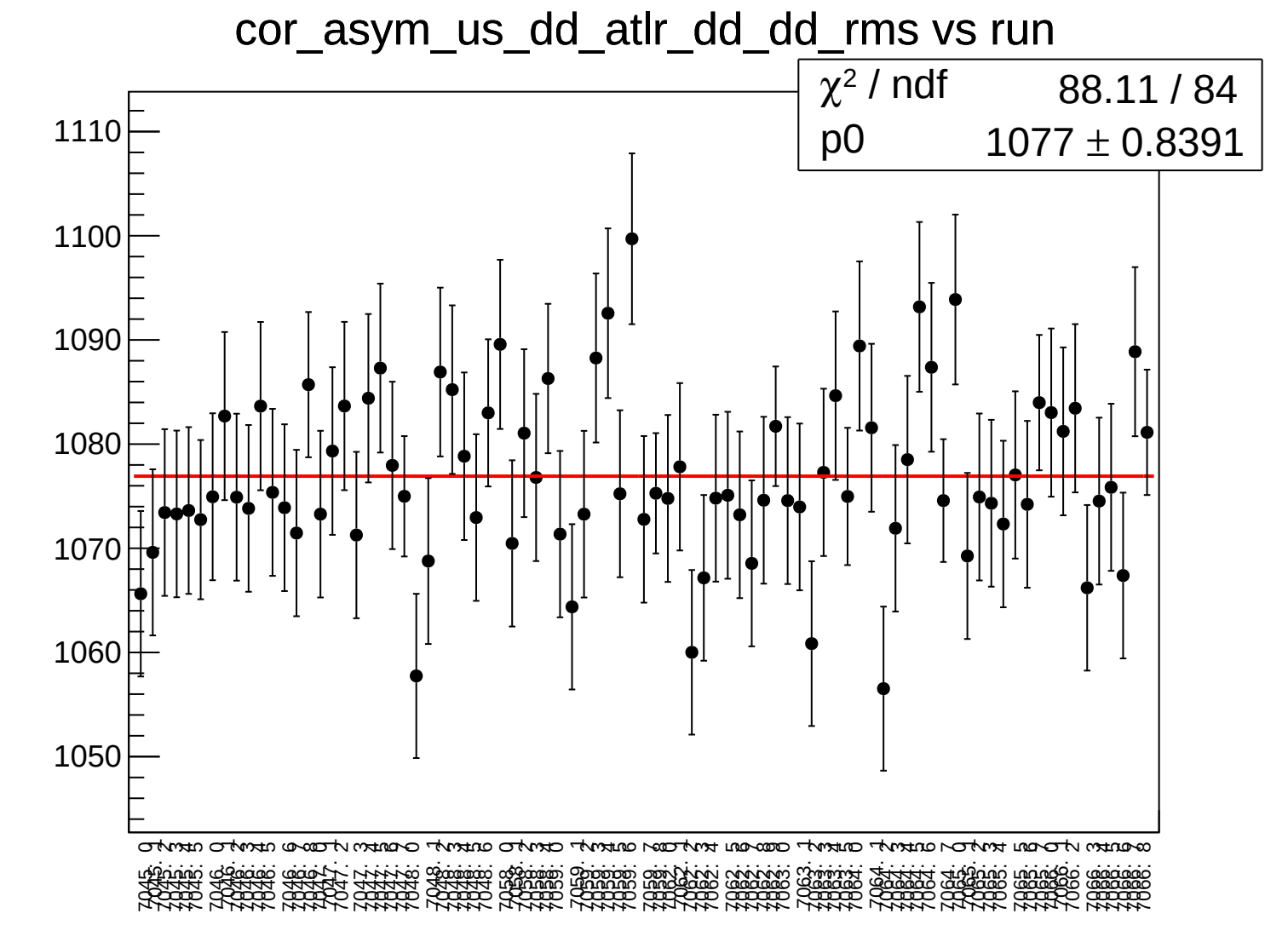

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 55.32 / 84
p0 −155.9 ± 553.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 123.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

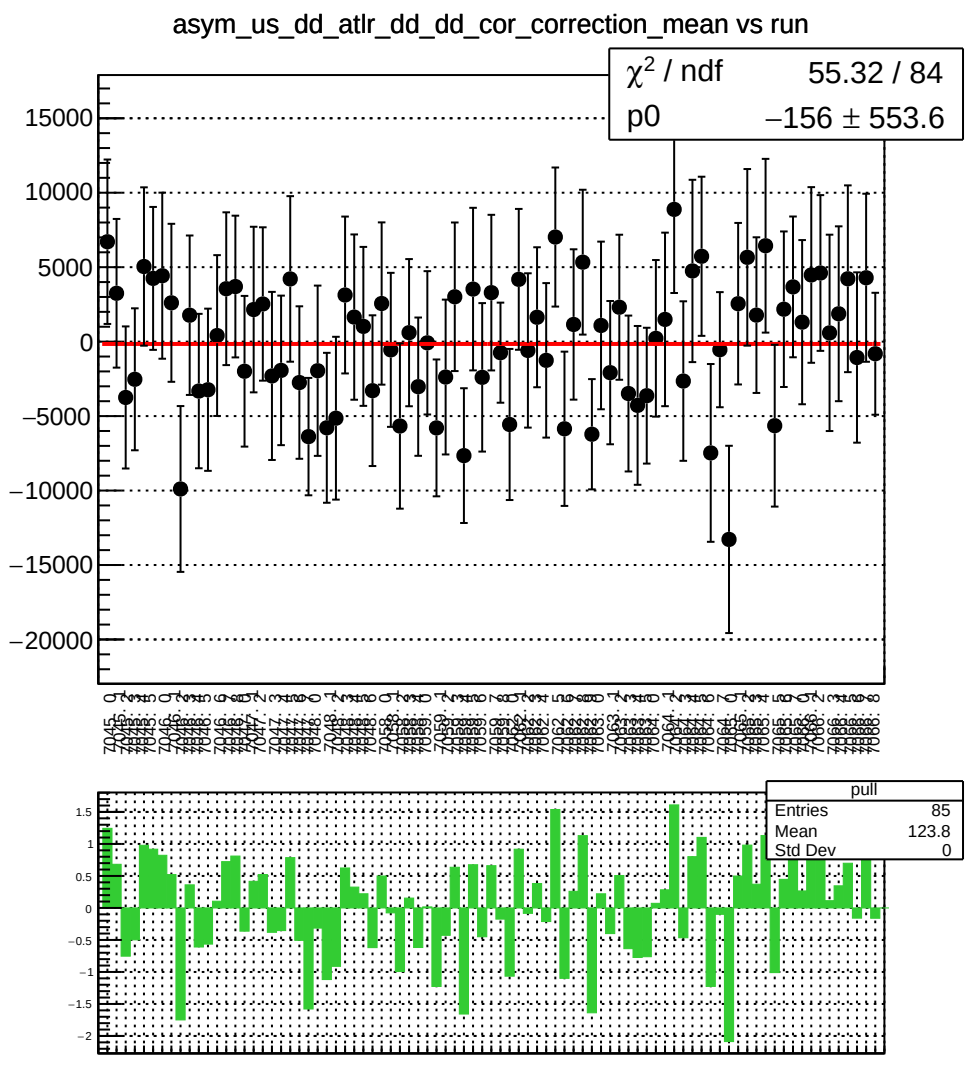

pull1D
Entries 85
Mean 0.02162
Std Dev 0.8064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

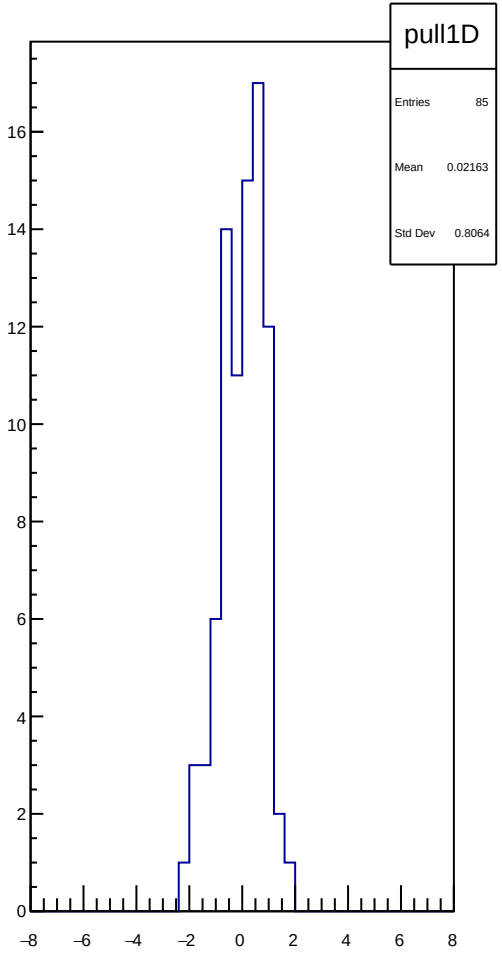

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 8704 / 84
p0 501.1 ± 0.3915
650
600
550
500
450

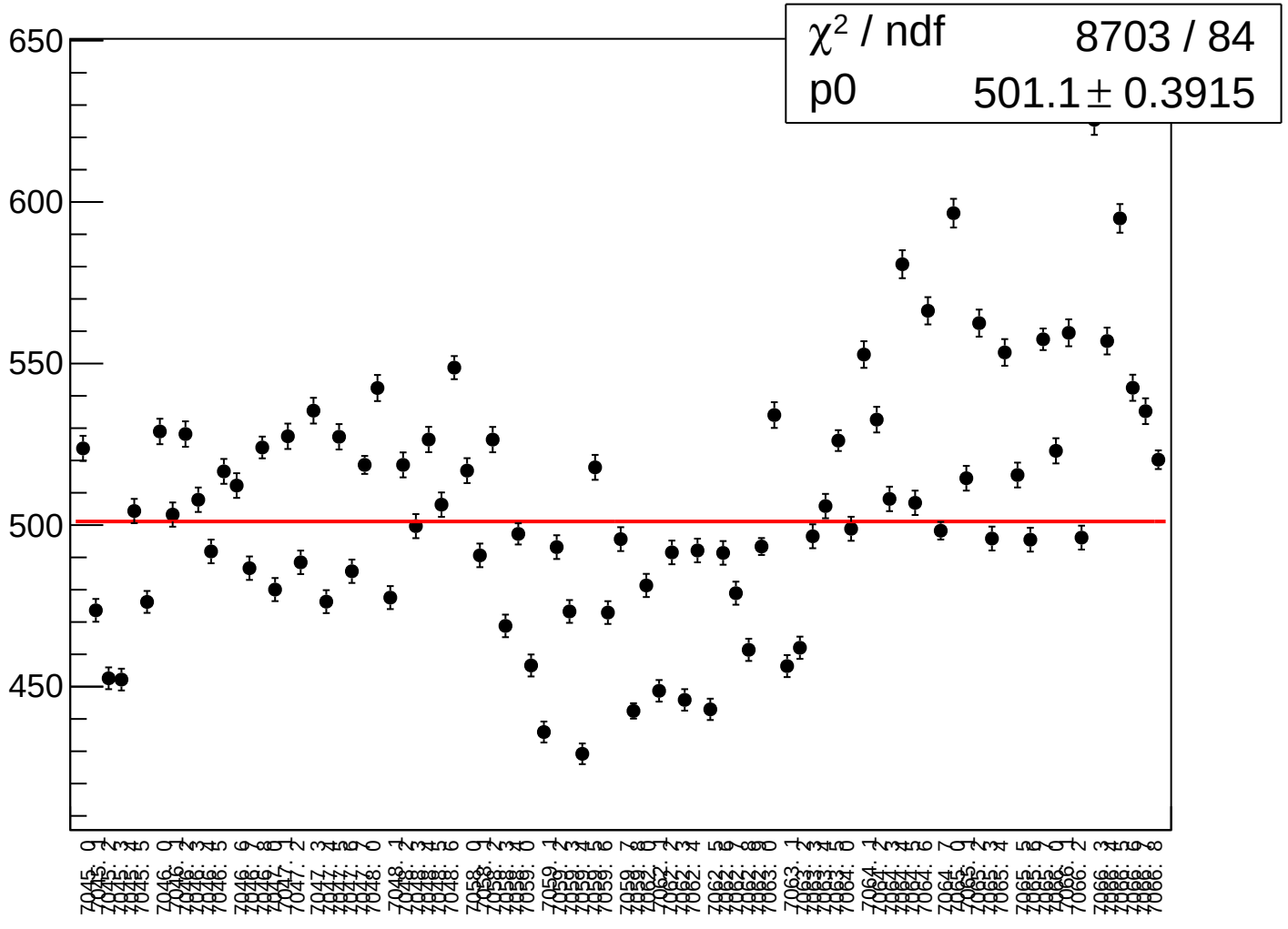

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.71 / 84
p0 −645.7 ± 1187
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −52.89
Std Dev 0
3
2
1
0
−1
−2

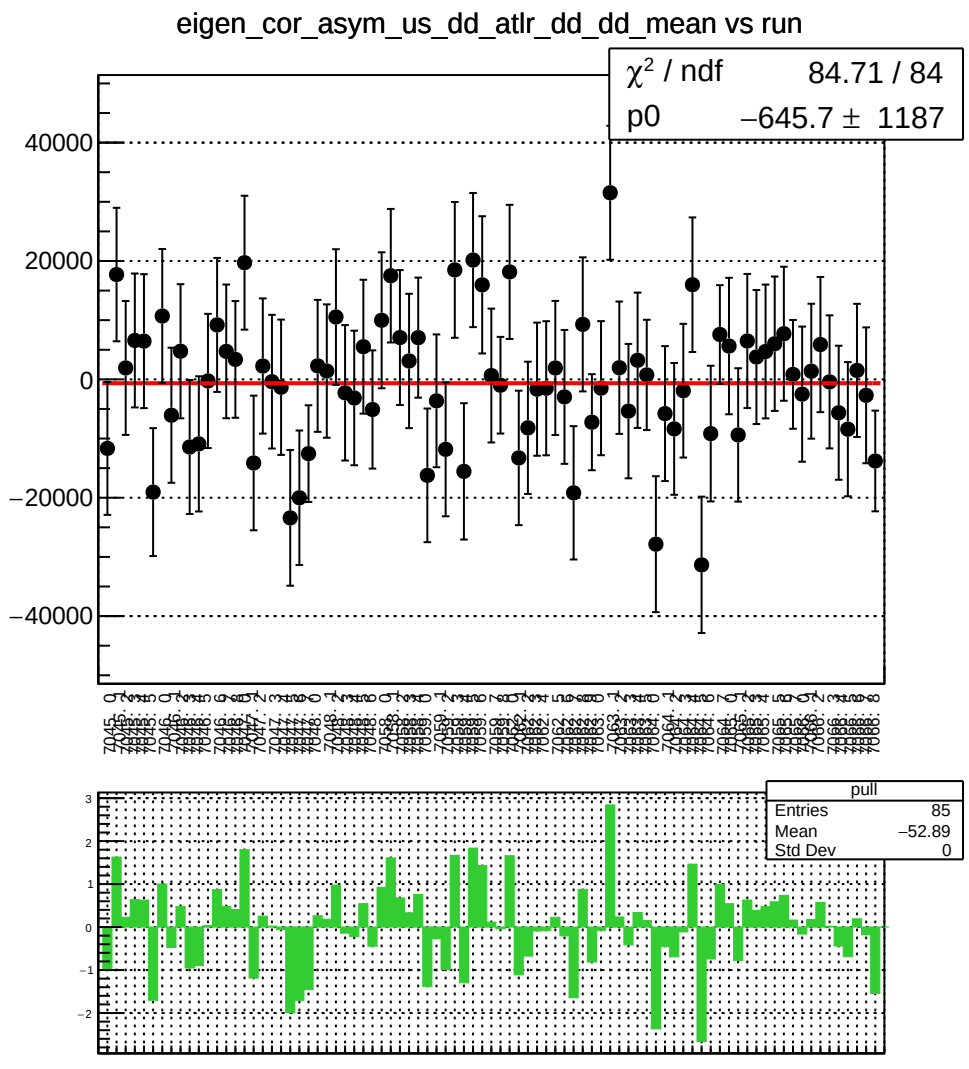

pull1D
Entries 85
Mean 0.01111
Std Dev 0.9983
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

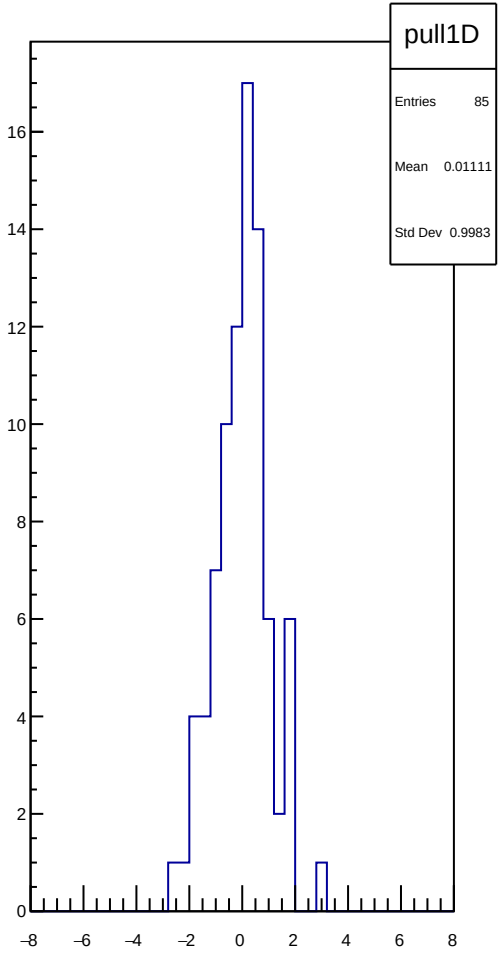

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 88.11 / 84
p0 1077 ± 0.8391
1110
1100
1090
1080
1070
1060
1050

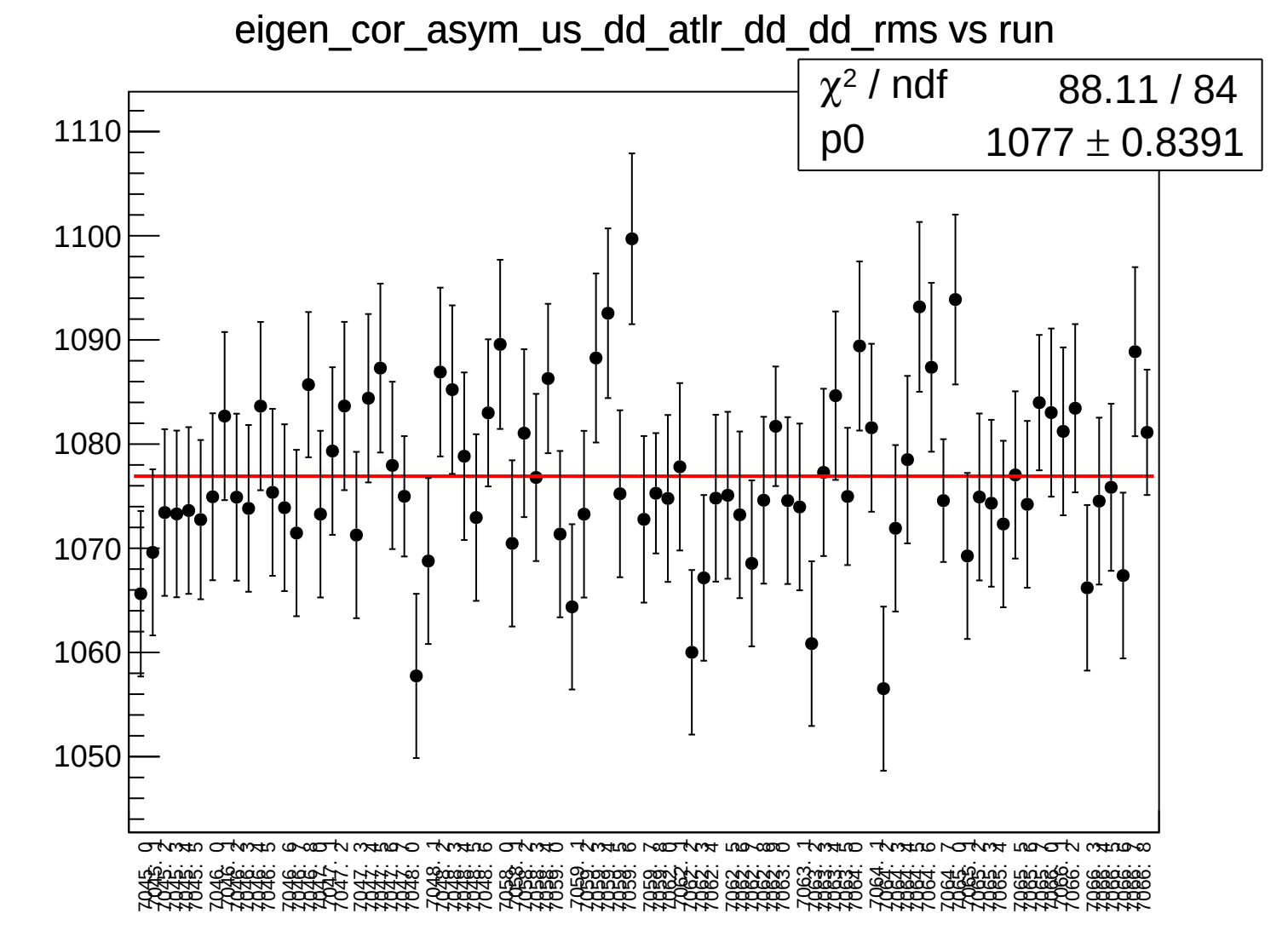

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 55.32 / 84
p0 −156 ± 553.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 123.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

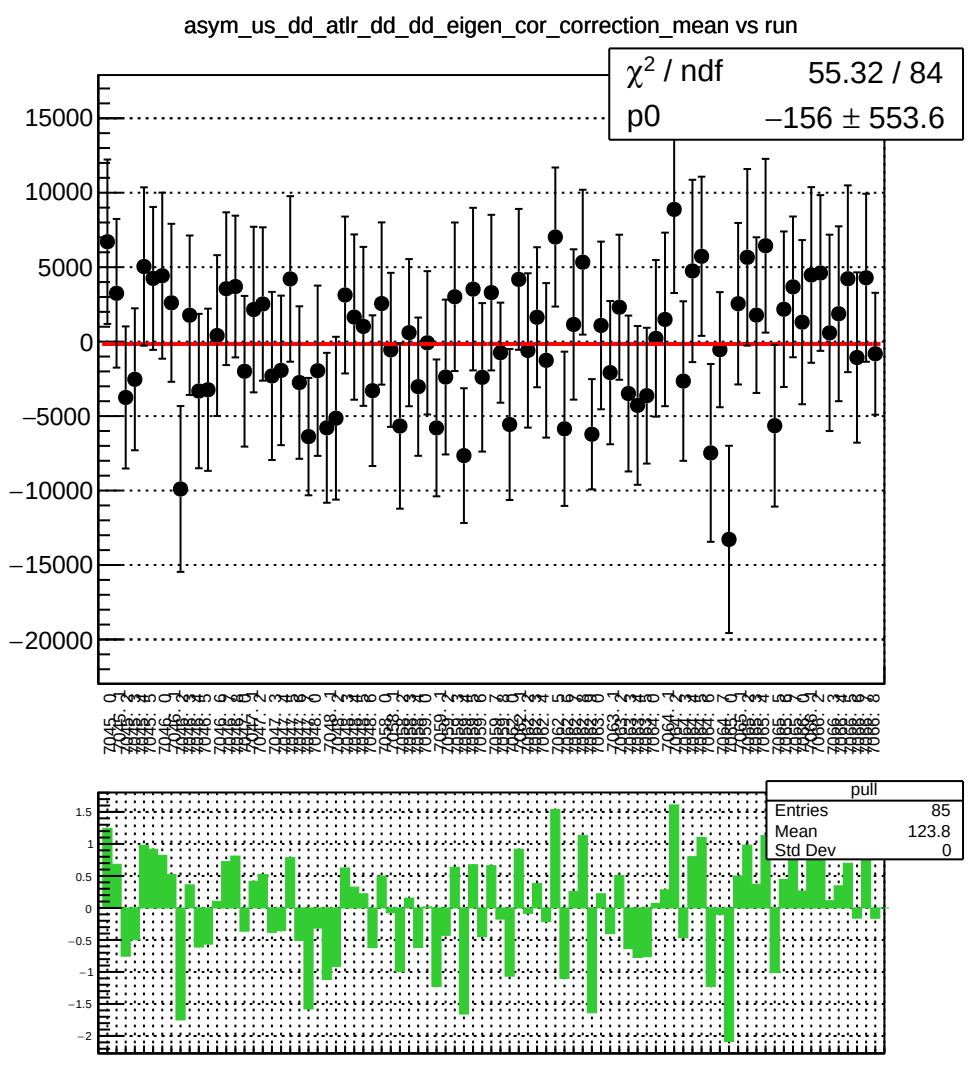

pull1D
Entries 85
Mean 0.02163
Std Dev 0.8064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

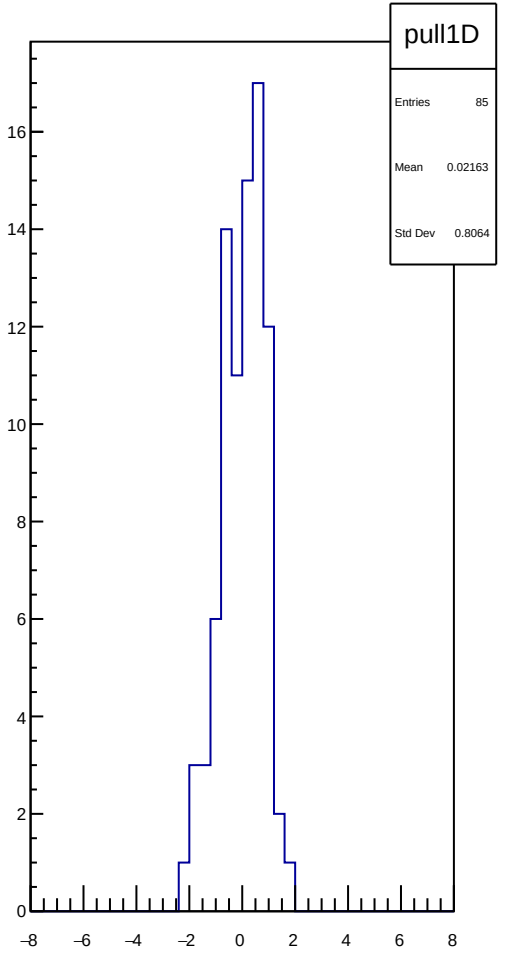

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 8703 / 84
p0 501.1 ± 0.3915
650
600
550
500
450

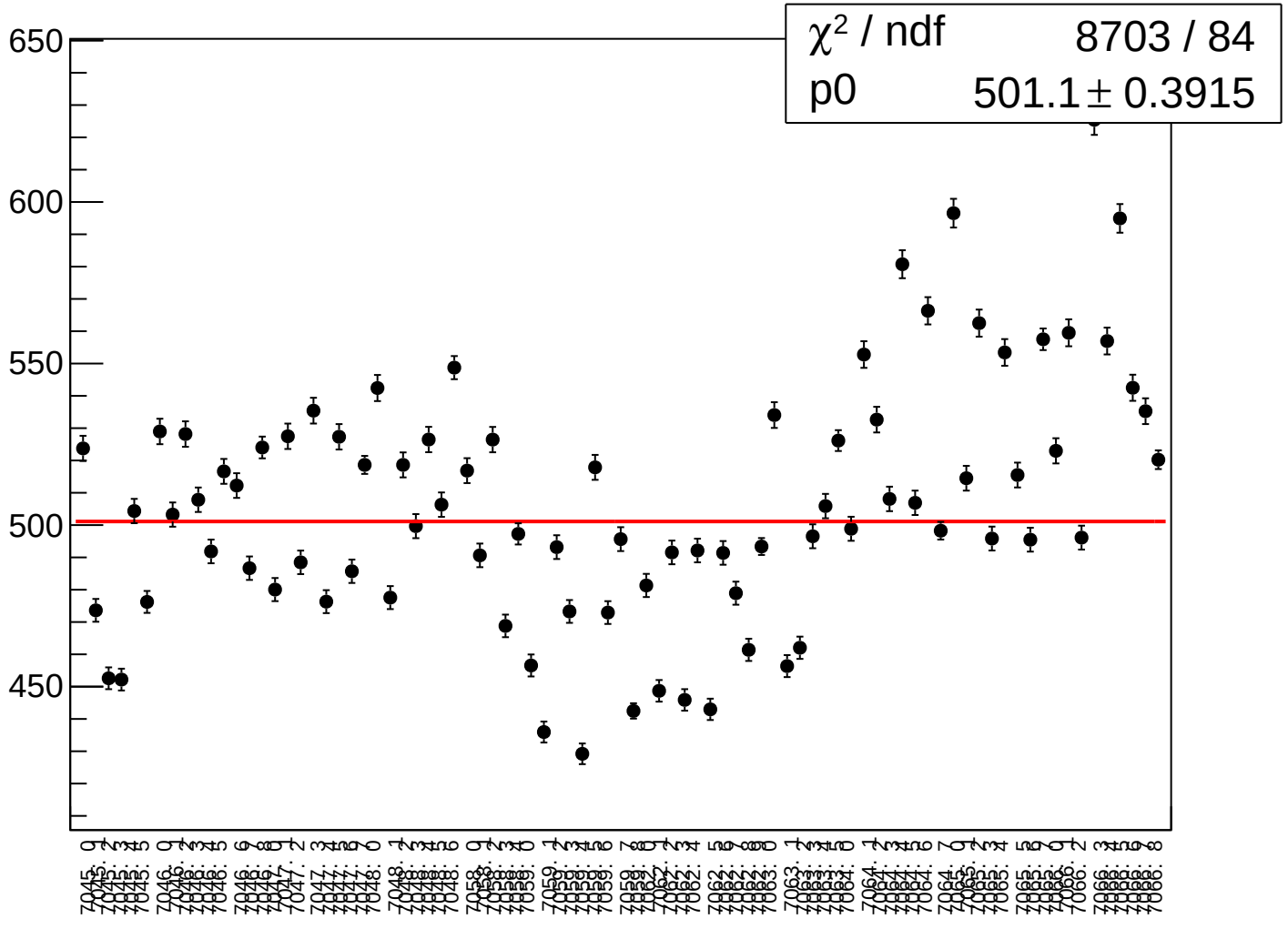

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.71 / 84
p0 −645.7 ± 1187
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −52.89
Std Dev 0
3
2
1
0
−1
−2

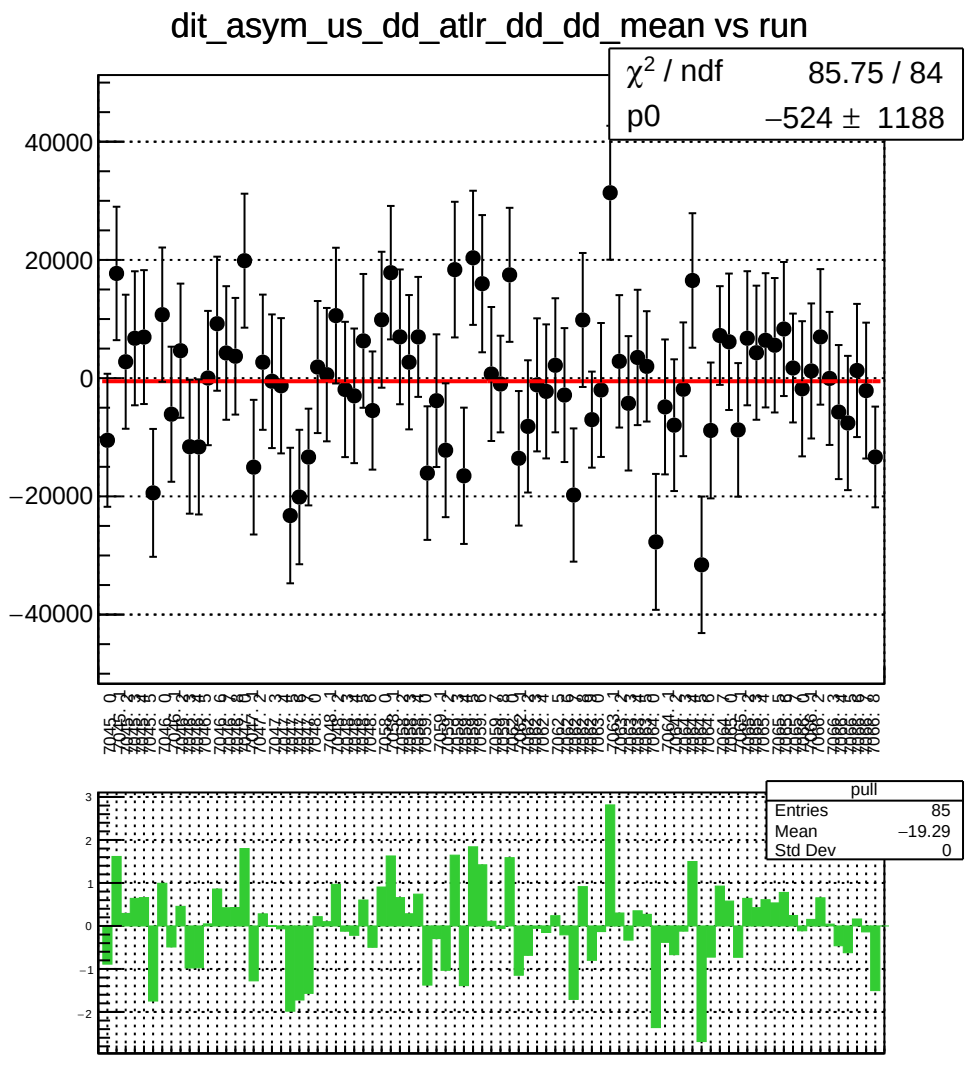

pull1D
Entries 85
Mean 0.01111
Std Dev 0.9983
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

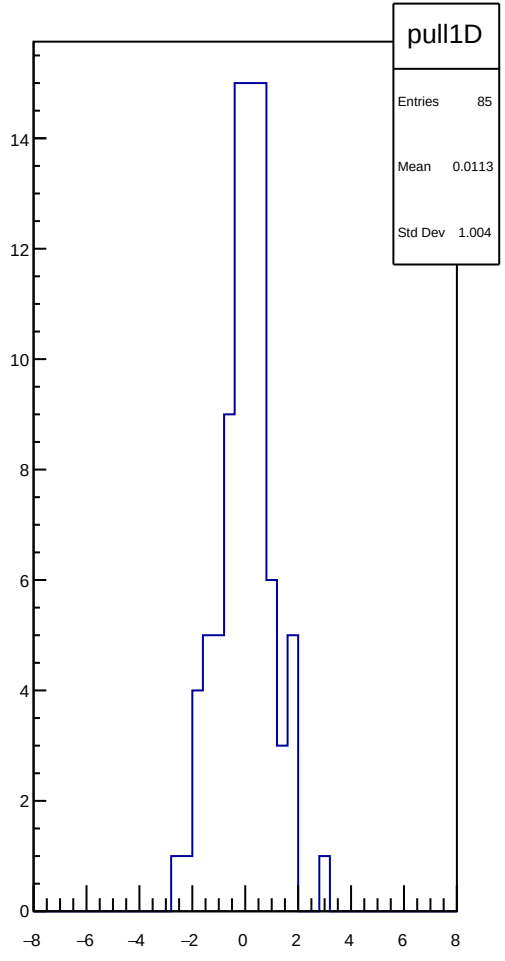

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 88.11 / 84
p0 1077 ± 0.8391
1110
1100
1090
1080
1070
1060
1050


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 55.32 / 84
p0 −156 ± 553.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 123.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean 0.02163
Std Dev 0.8064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8703 / 84
p0 501.1 ± 0.3915
650
600
550
500
450


dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.75 / 84
p0 −524 ± 1188
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −19.29
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.0113
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
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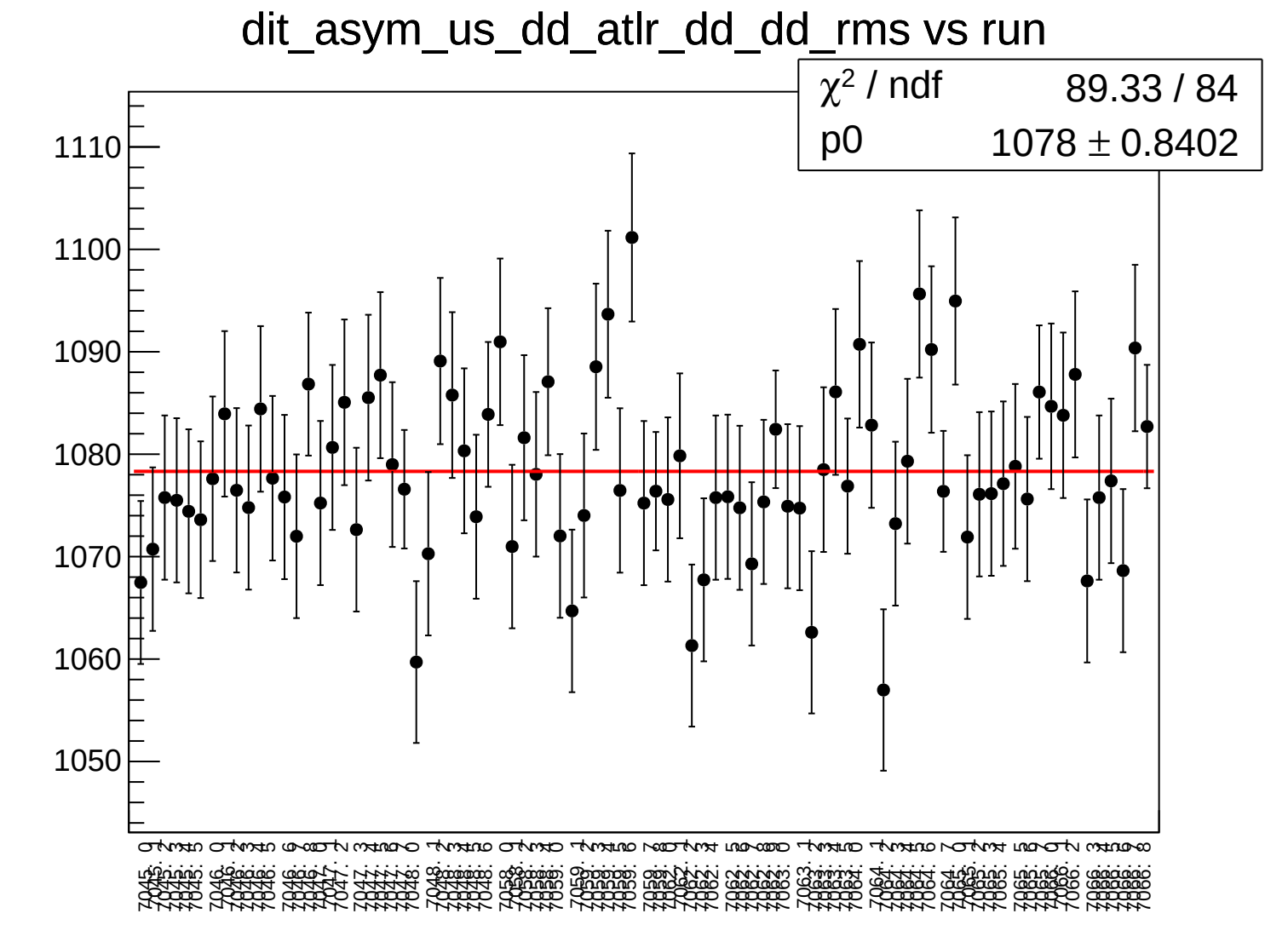
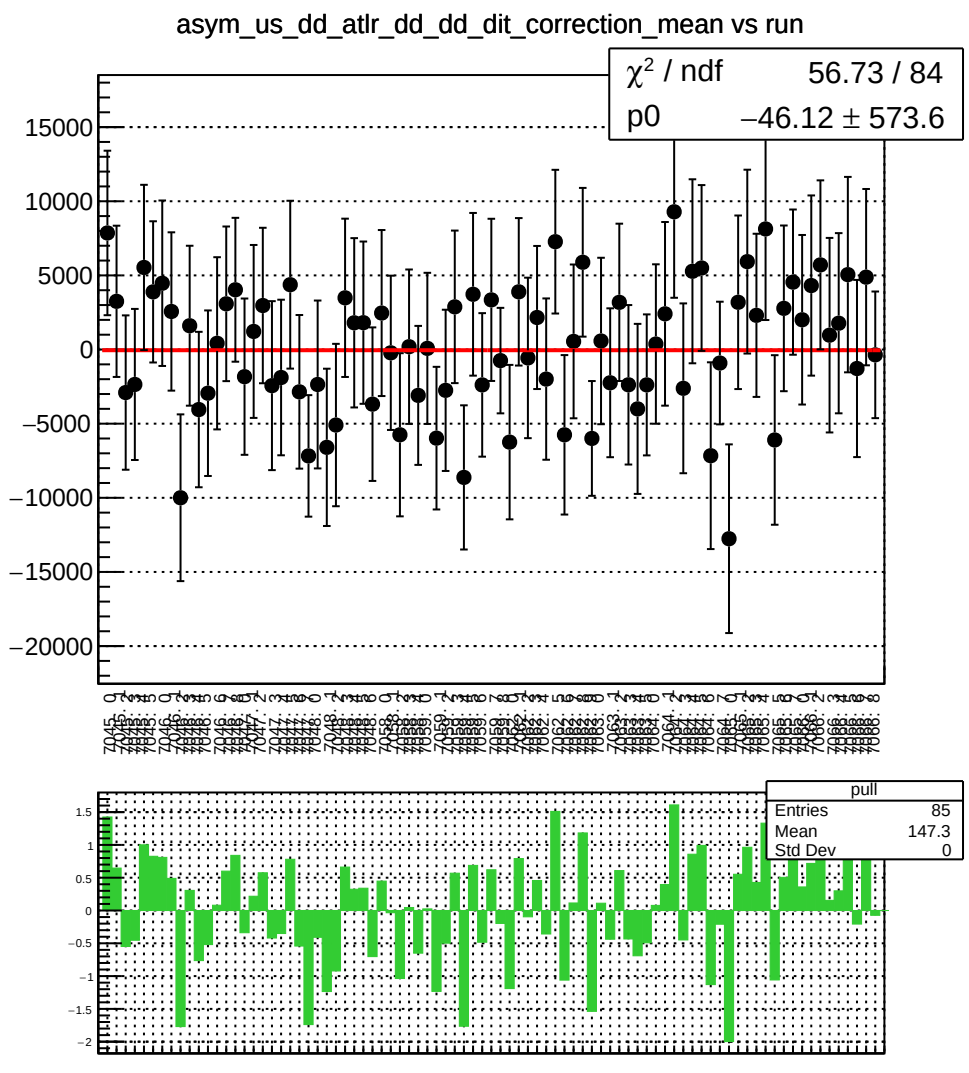
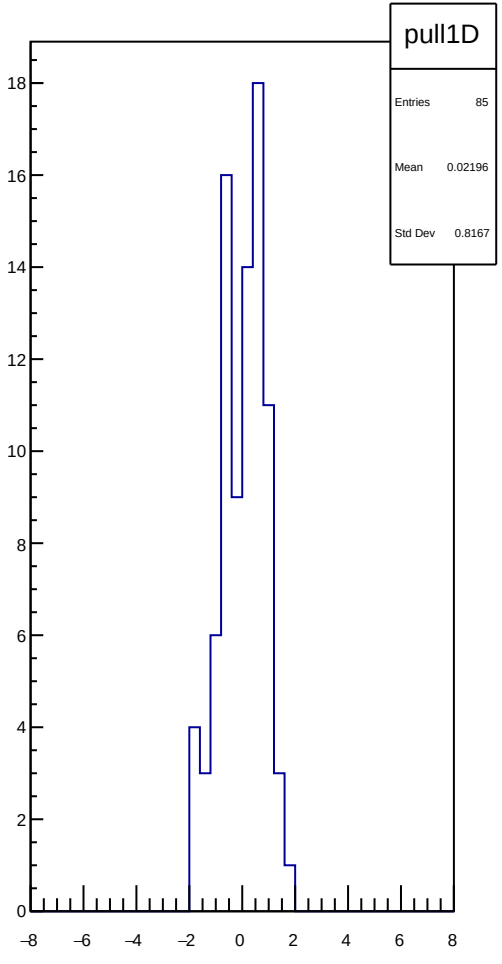
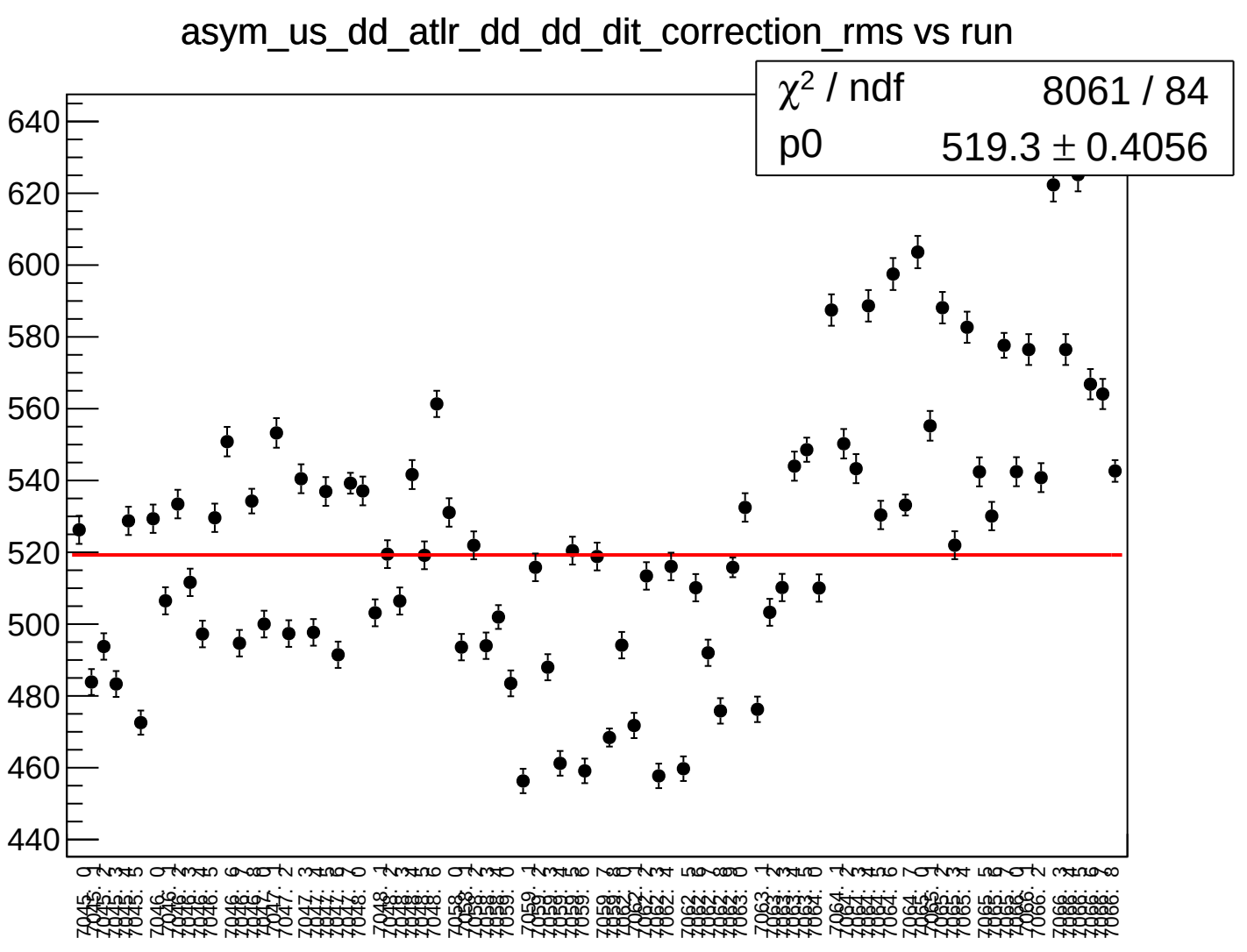
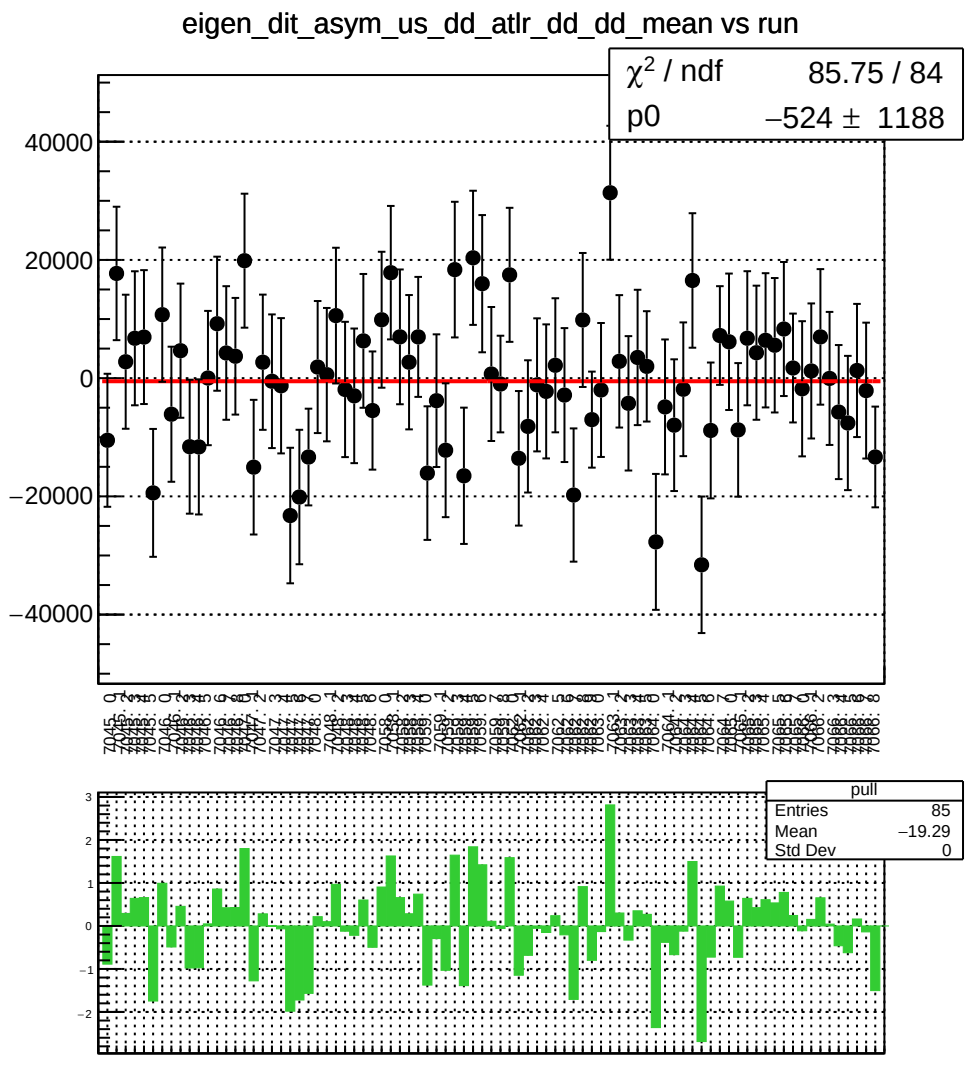
0
2
4
6
8

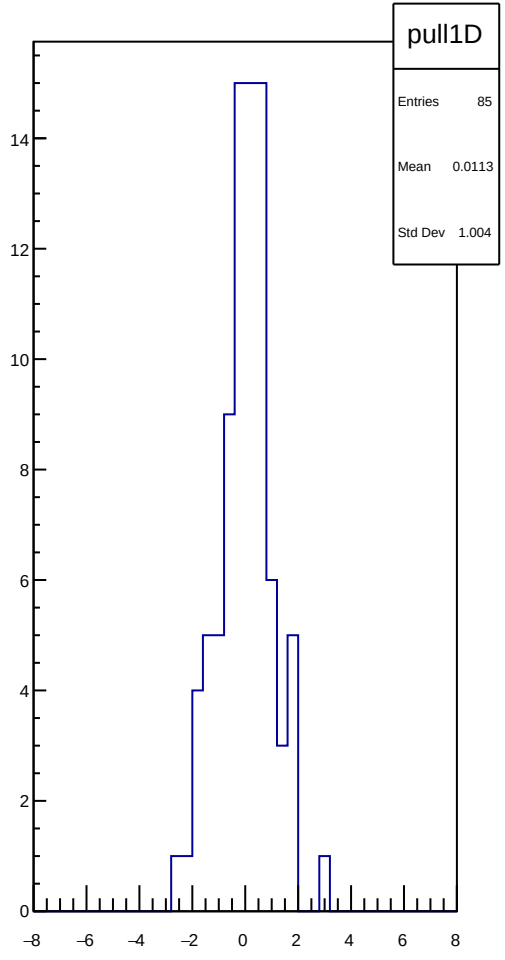

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 89.33 / 84
p0 1078 ± 0.8402
1110
1100
1090
1080
1070
1060
1050

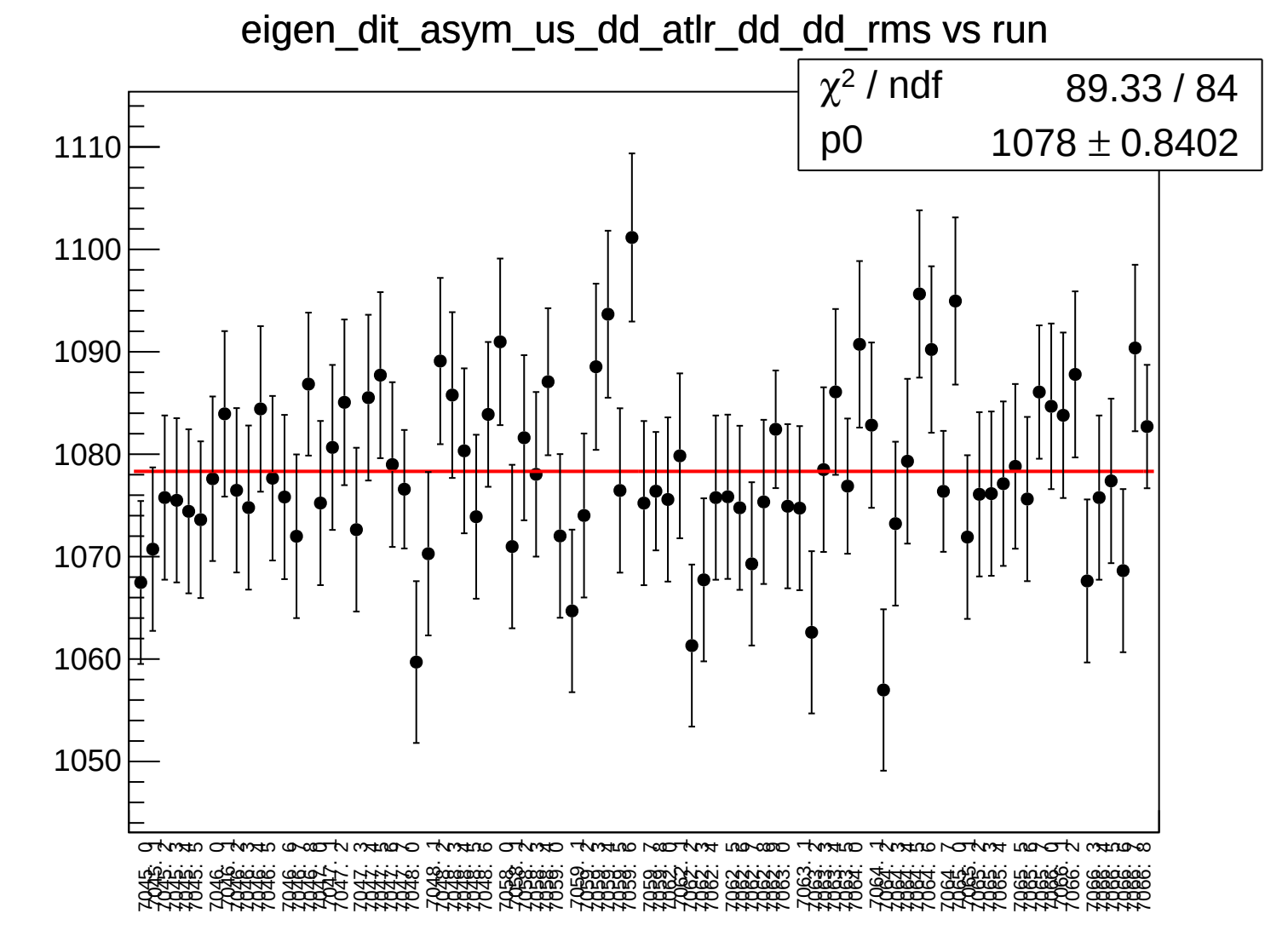

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 56.73 / 84
p0 −46.12 ± 573.6
pull
Entries 85
Mean 147.3
Std Dev 0

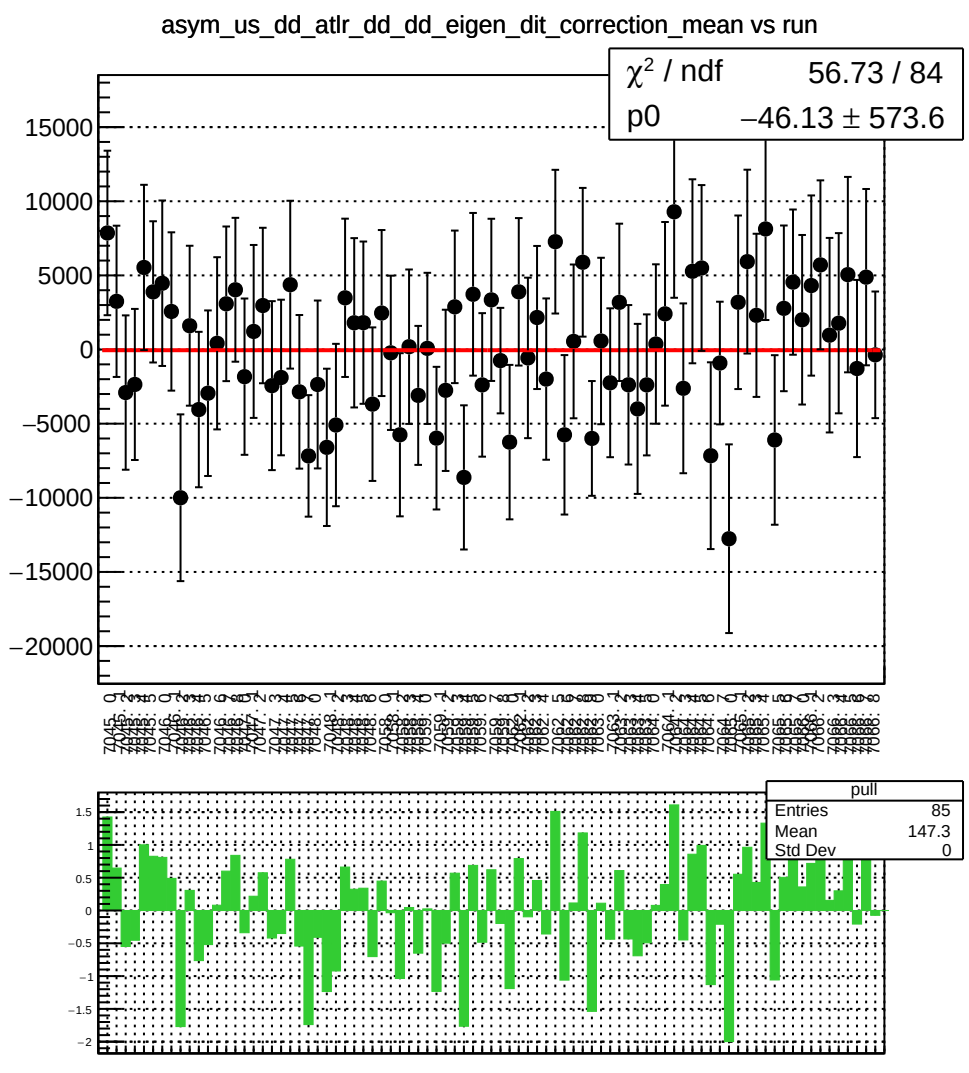

pull1D
Entries 85
Mean 0.02196
Std Dev 0.8167

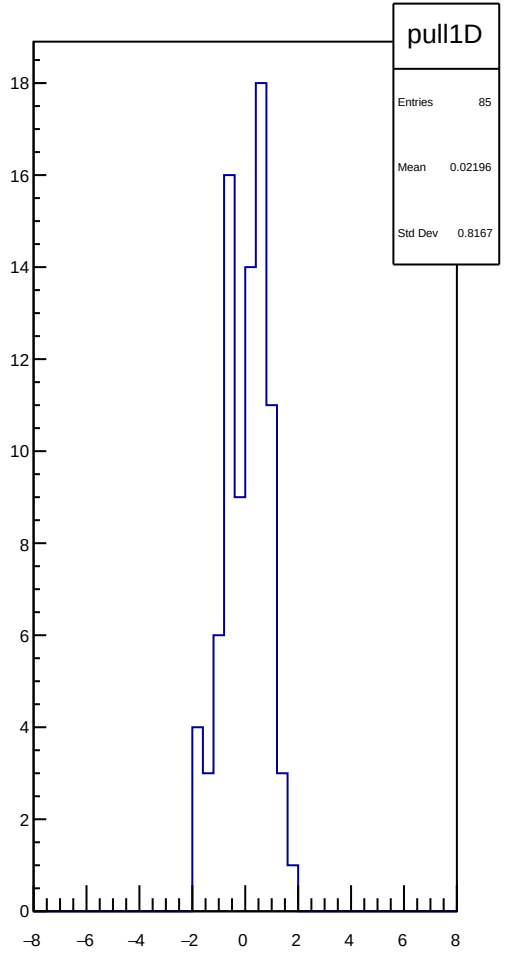

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 8061 / 84
p0 519.3 ± 0.4056
640
620
600
580
560
540
520
500
480
460
440

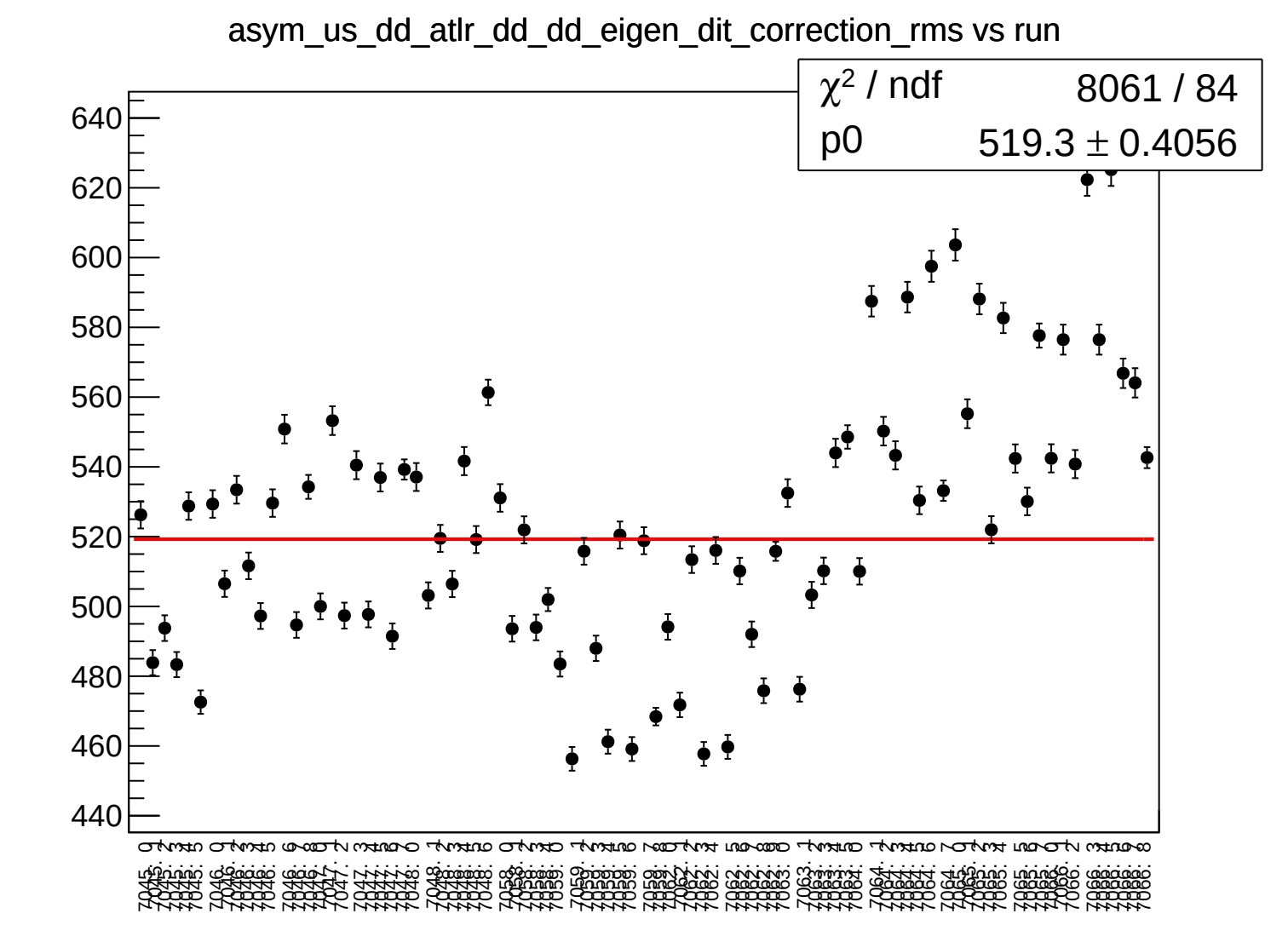

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.75 / 84
p0 −524 ± 1188
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −19.29
Std Dev 0
3
2
1
0
−1
−2

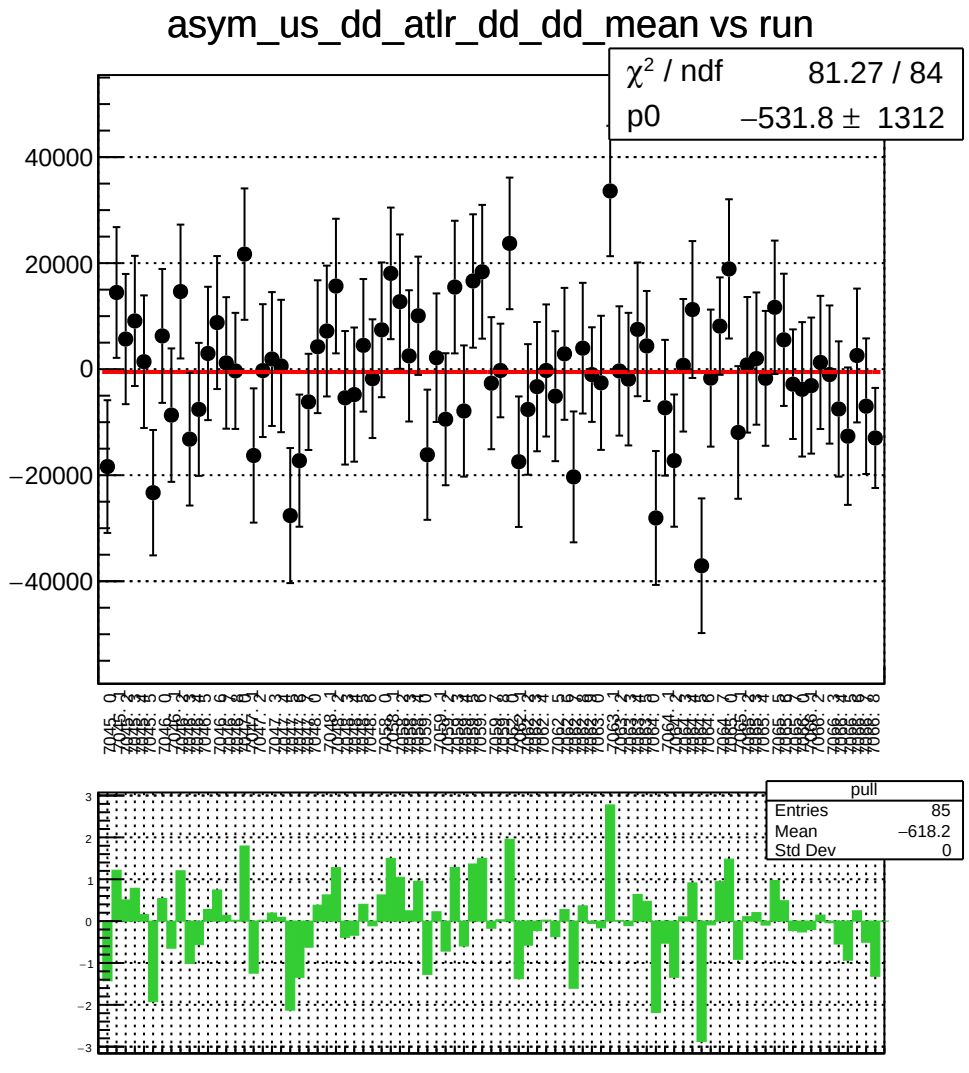

pull1D
Entries 85
Mean 0.0113
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

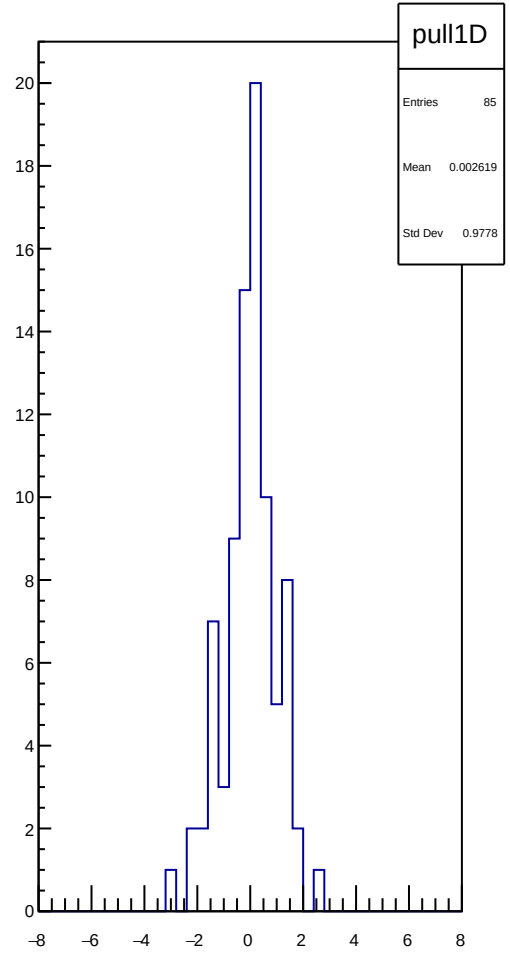

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 89.33 / 84
p0 1078 ± 0.8402
1110
1100
1090
1080
1070
1060
1050

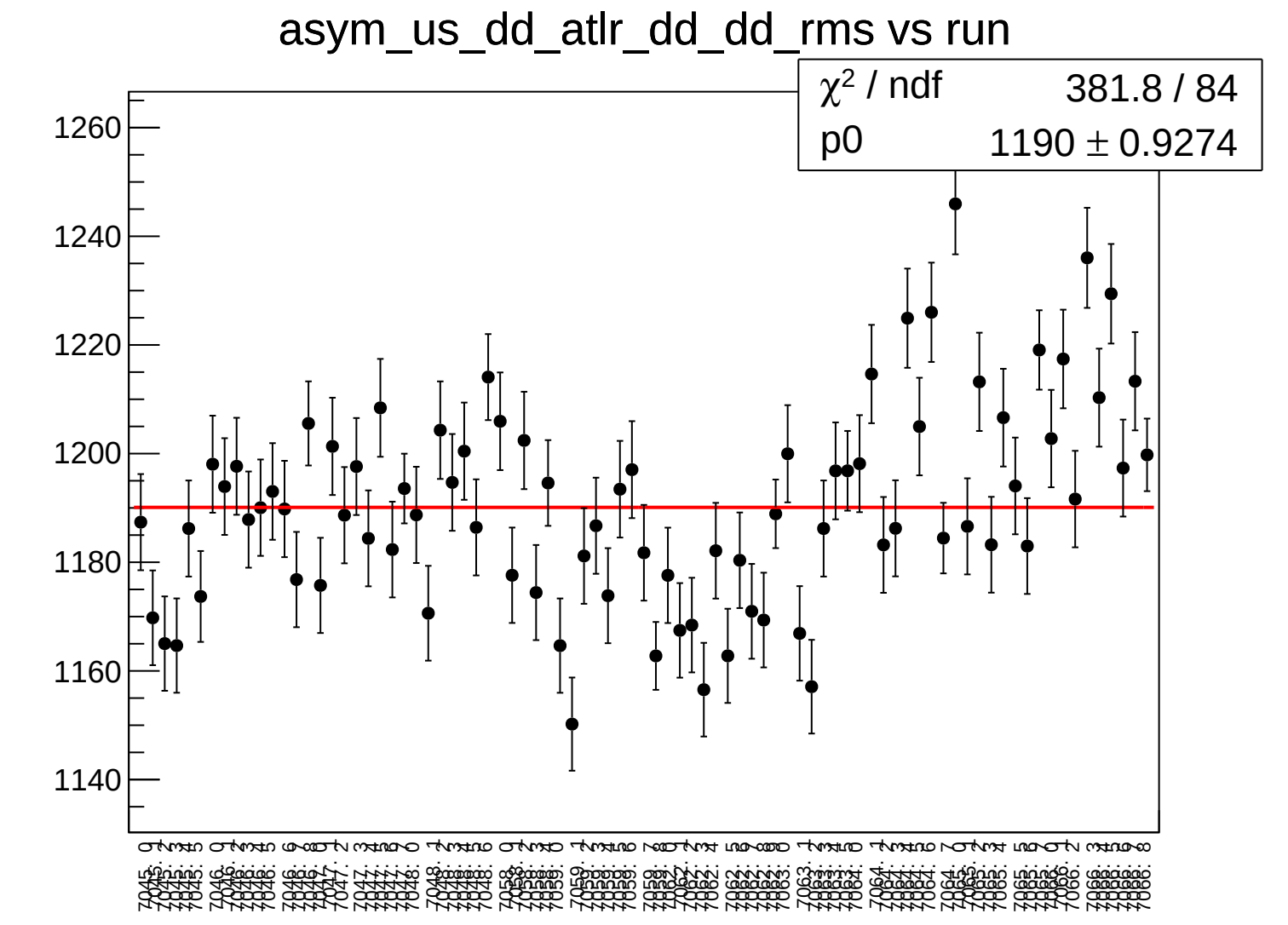

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.73 / 84
p0 −46.13 ± 573.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 147.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

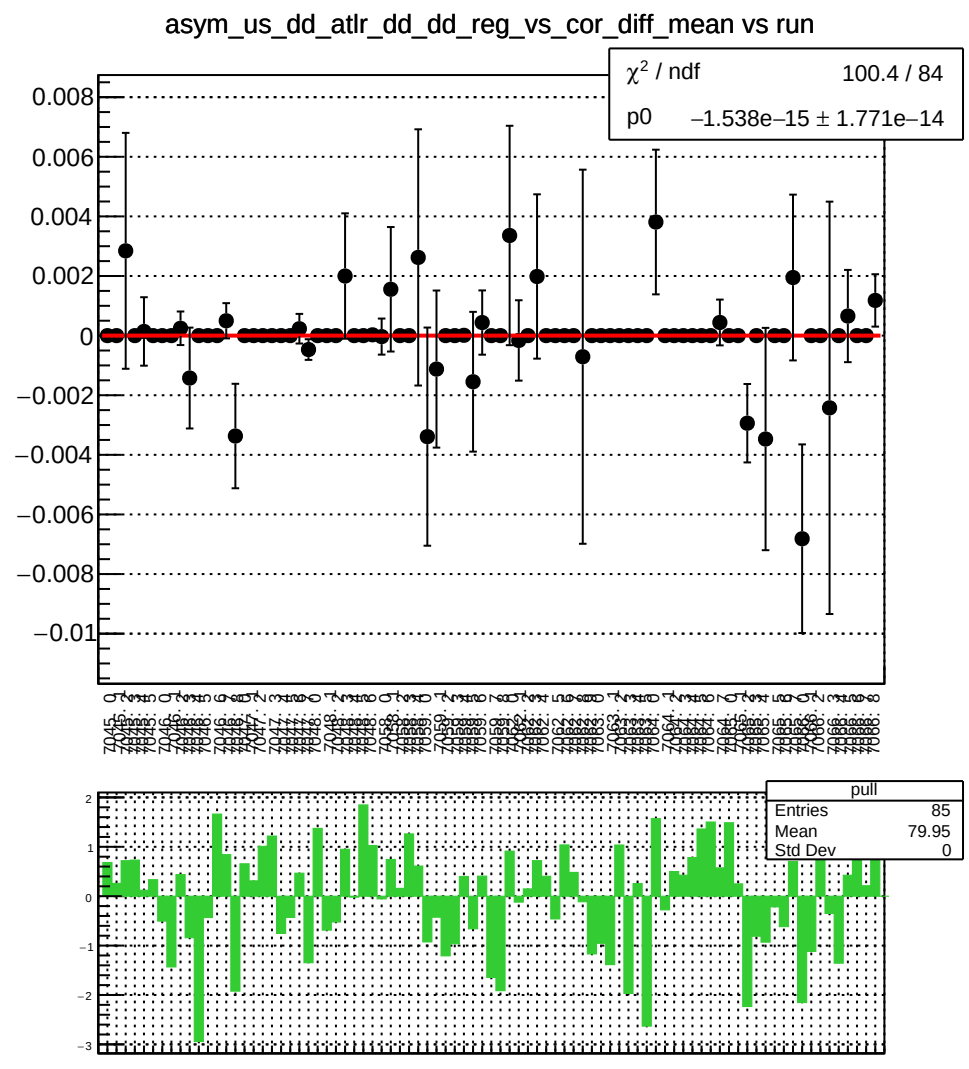

pull1D
Entries 85
Mean 0.02196
Std Dev 0.8167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

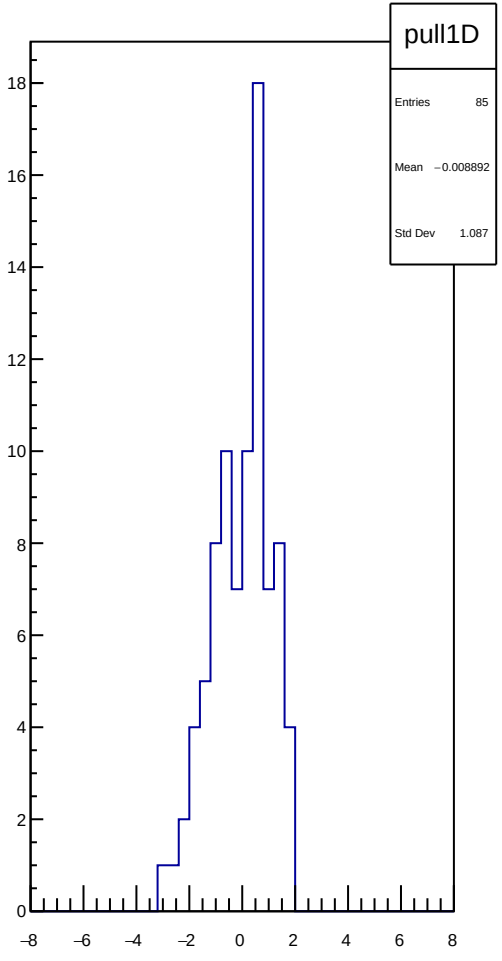

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8061 / 84
p0 519.3 ± 0.4056
640
620
600
580
560
540
520
500
480
460
440

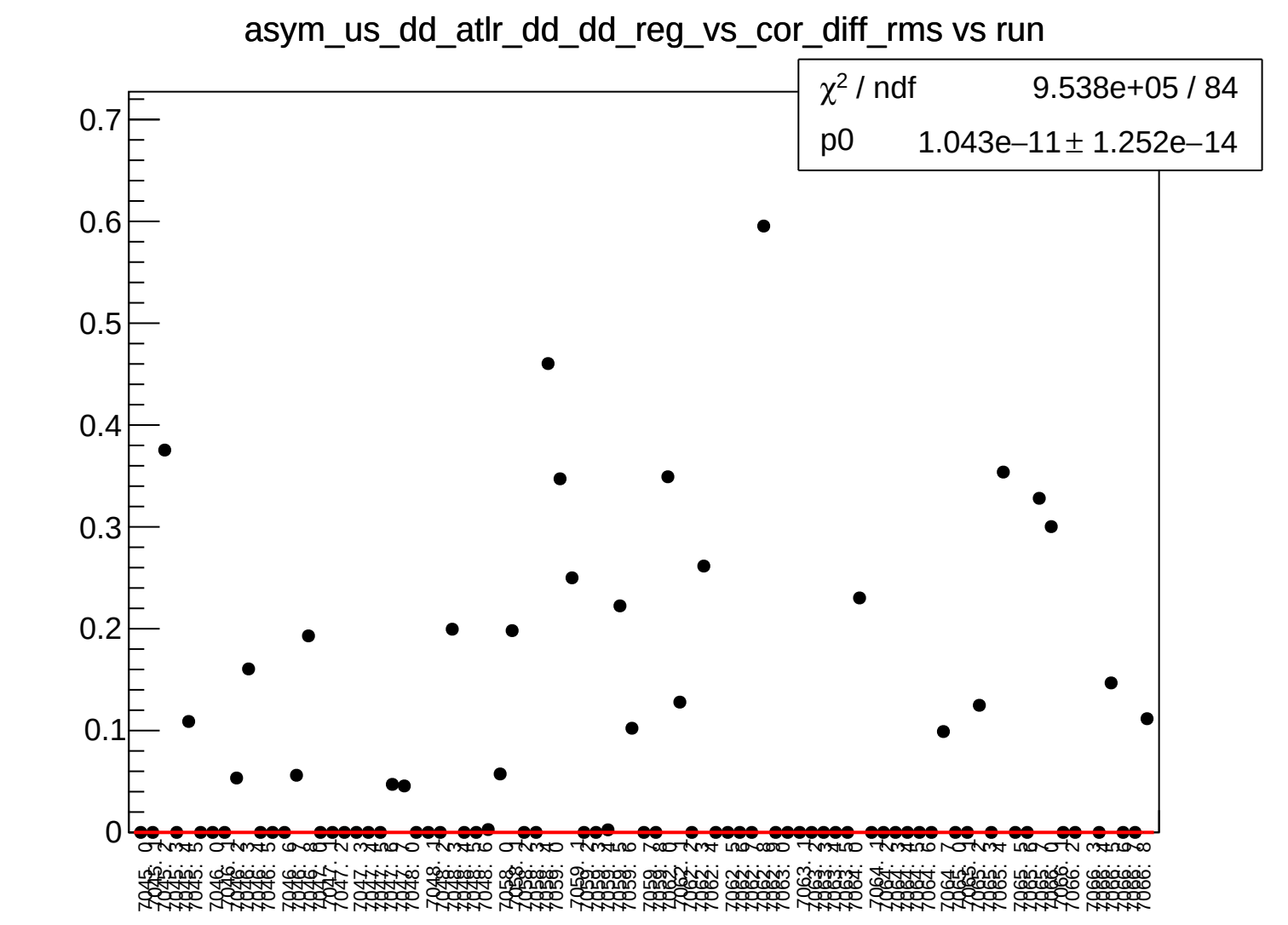

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.27 / 84
p0 −531.8 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −618.2
Std Dev 0
3
2
1
0
−1
−2
−3

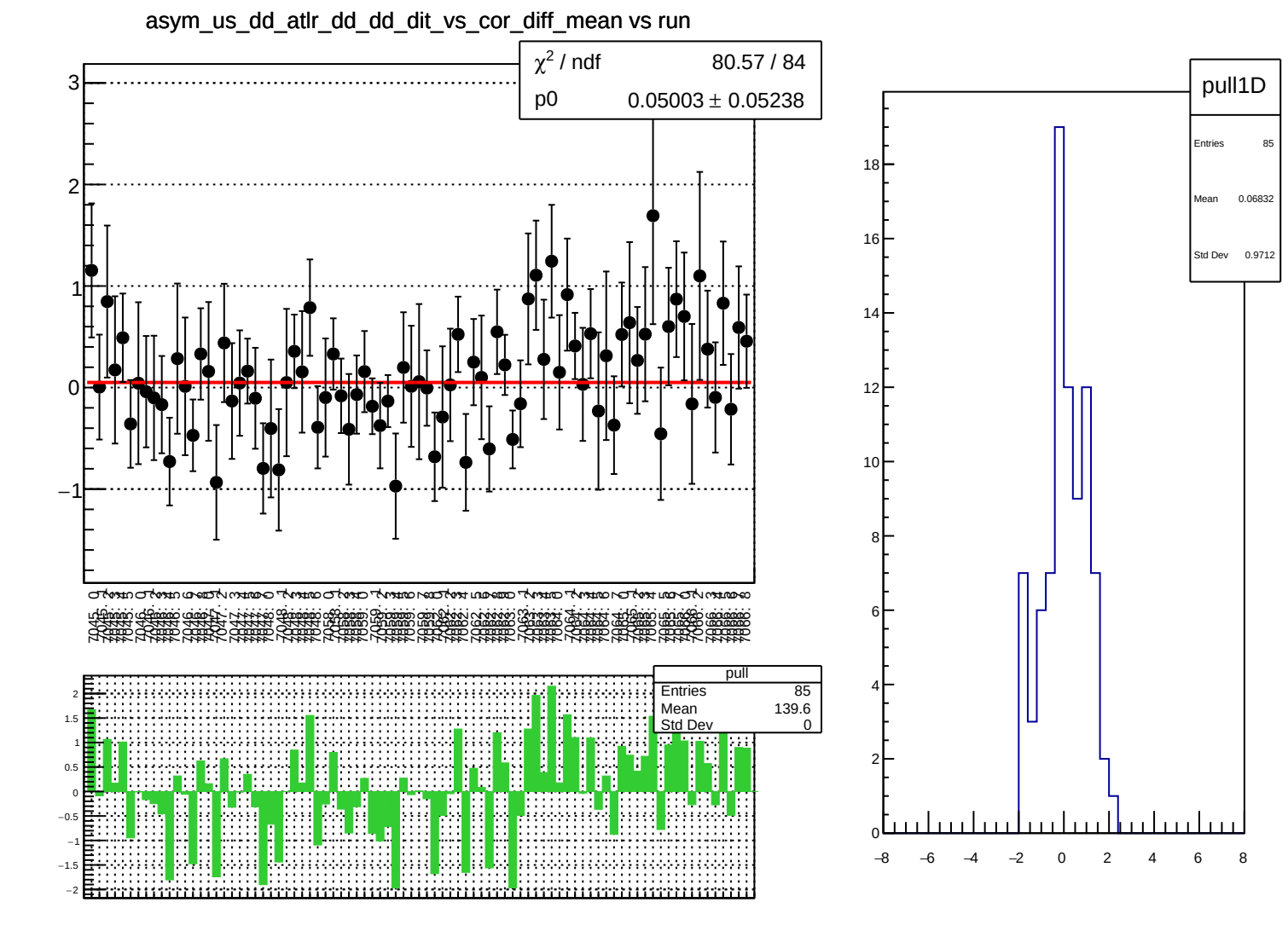

pull1D
Entries 85
Mean 0.002619
Std Dev 0.9778
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

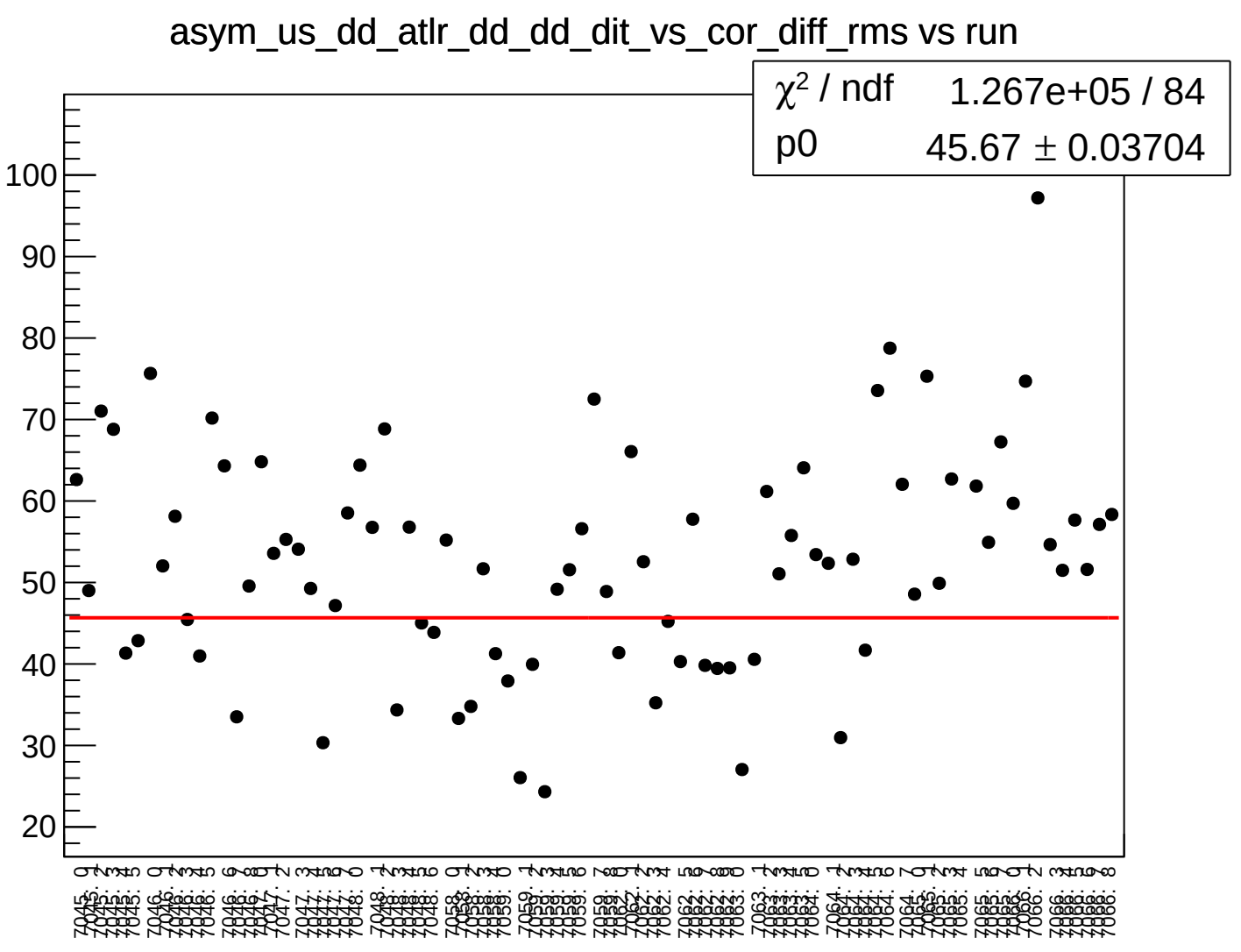

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 381.8 / 84
p0 1190 ± 0.9274
1260
1240
1220
1200
1180
1160
1140

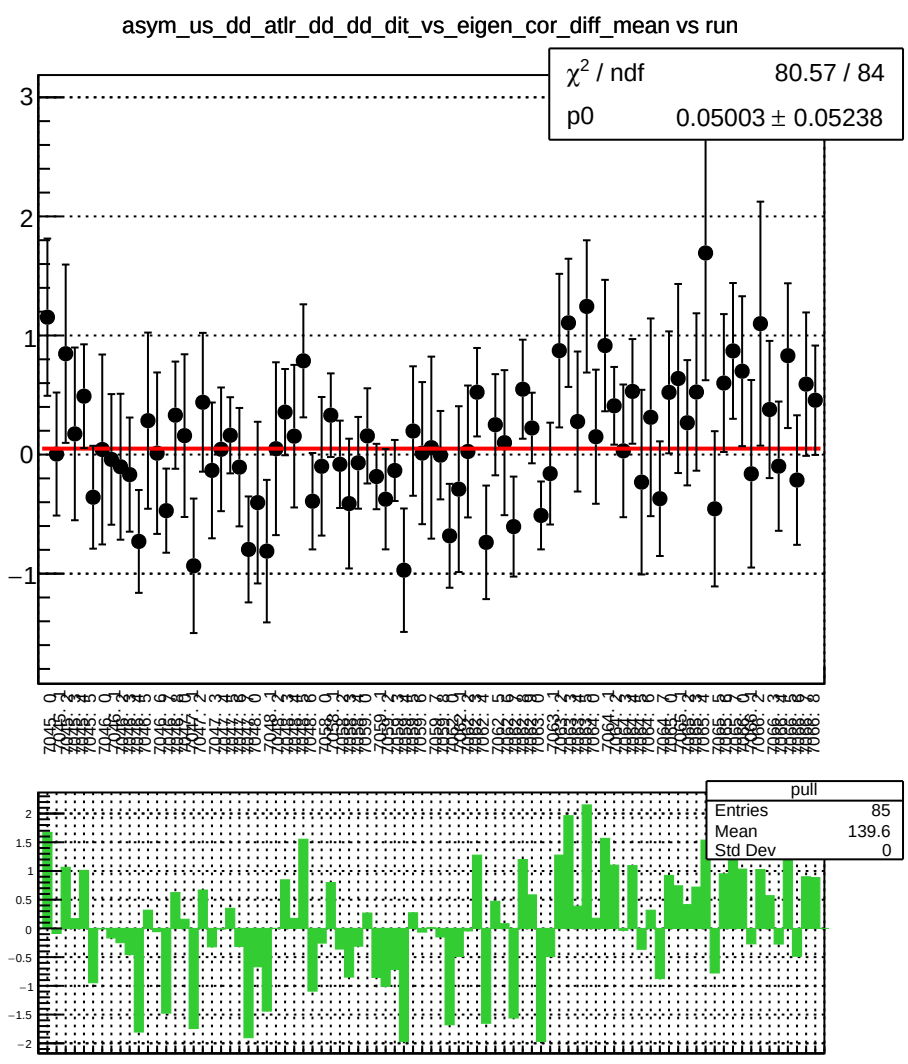

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 84
p0 −1.538e−15 ± 1.771e−14
pull
Entries 85
Mean 79.95
Std Dev 0

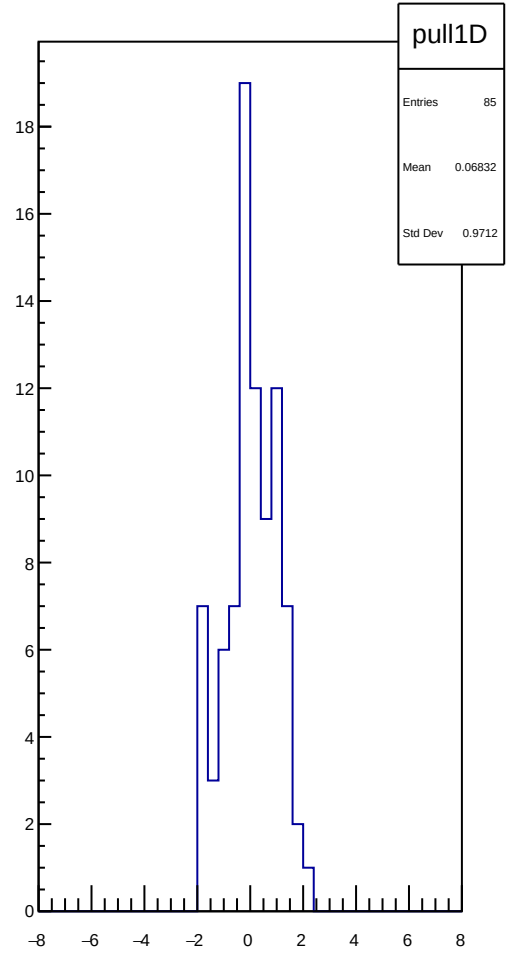

pull1D
Entries 85
Mean −0.008892
Std Dev 1.087

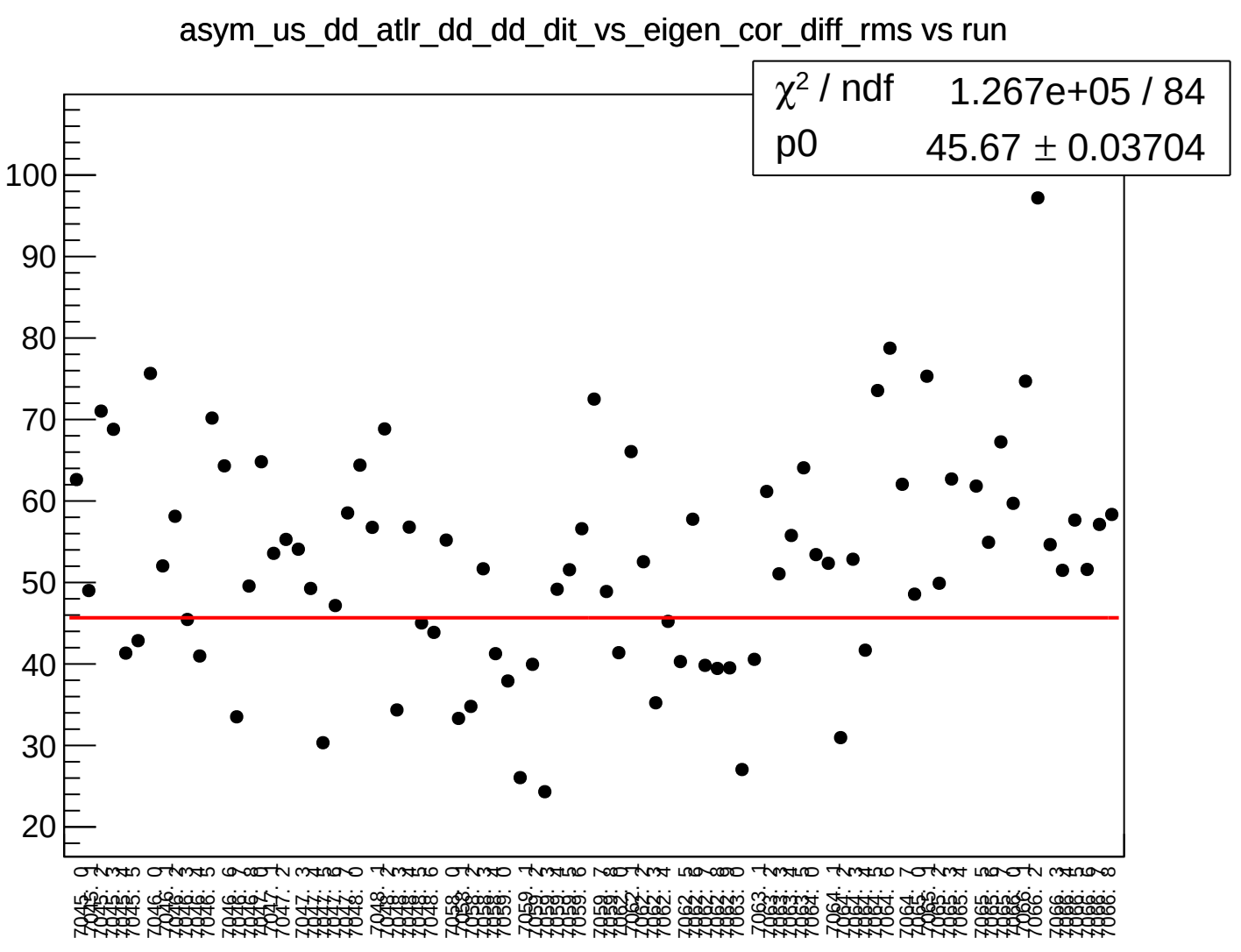

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.538e+05 / 84
p0 1.043e−11 ± 1.252e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

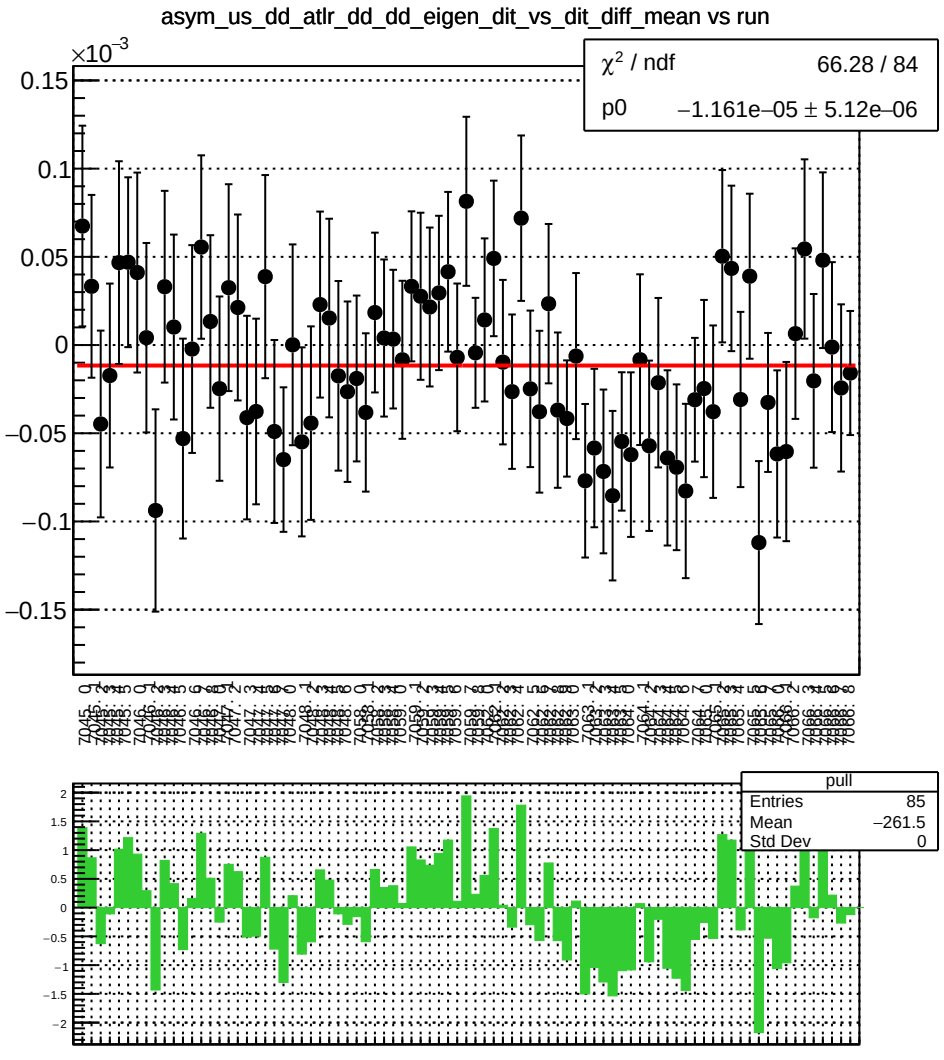

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.57 / 84
p0 0.05003 ± 0.05238
pull
Entries 85
Mean 139.6
Std Dev 0
pull1D
Entries 85
Mean 0.06832
Std Dev 0.9712

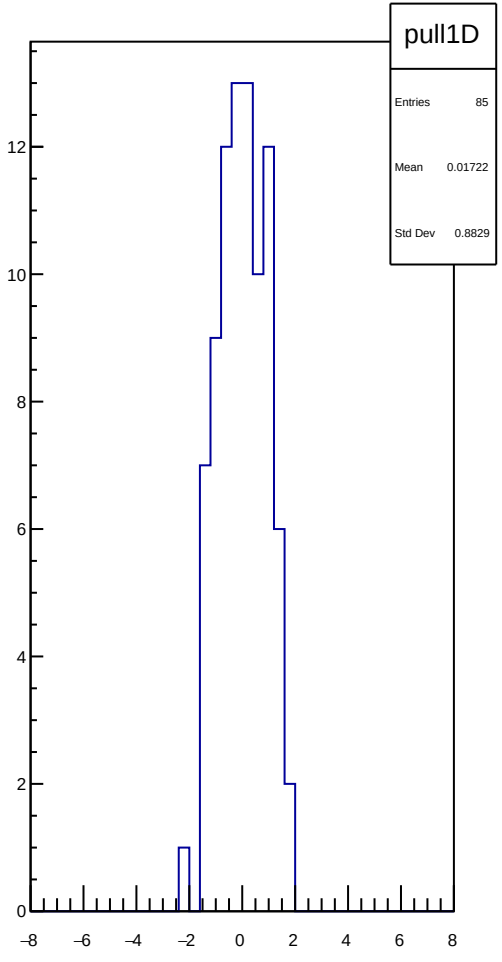

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 84
p0 45.67 ± 0.03704
100
90
80
70
60
50
40
30
20

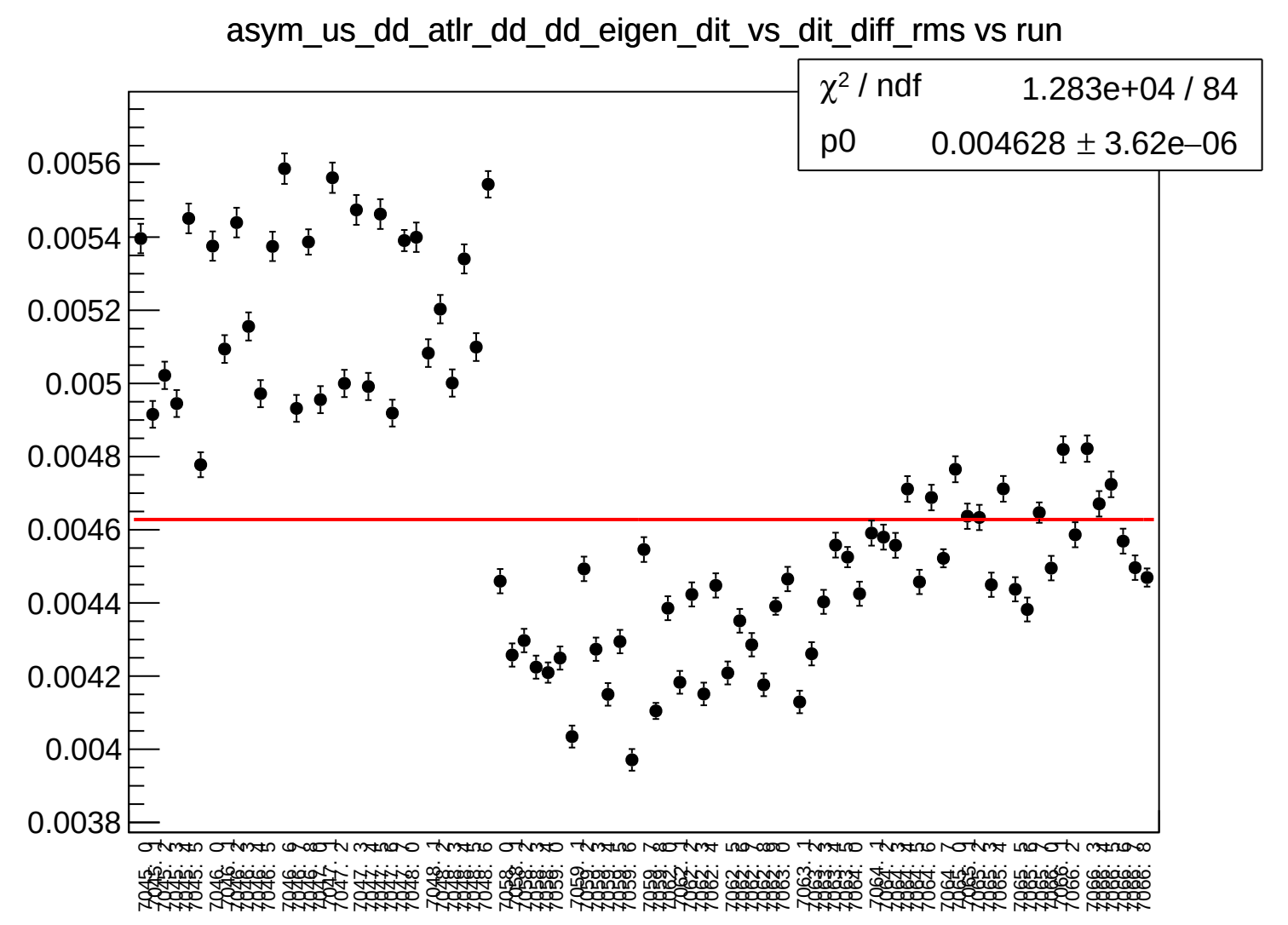

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.57 / 84
p0 0.05003 ± 0.05238
pull
Entries 85
Mean 139.6
Std Dev 0

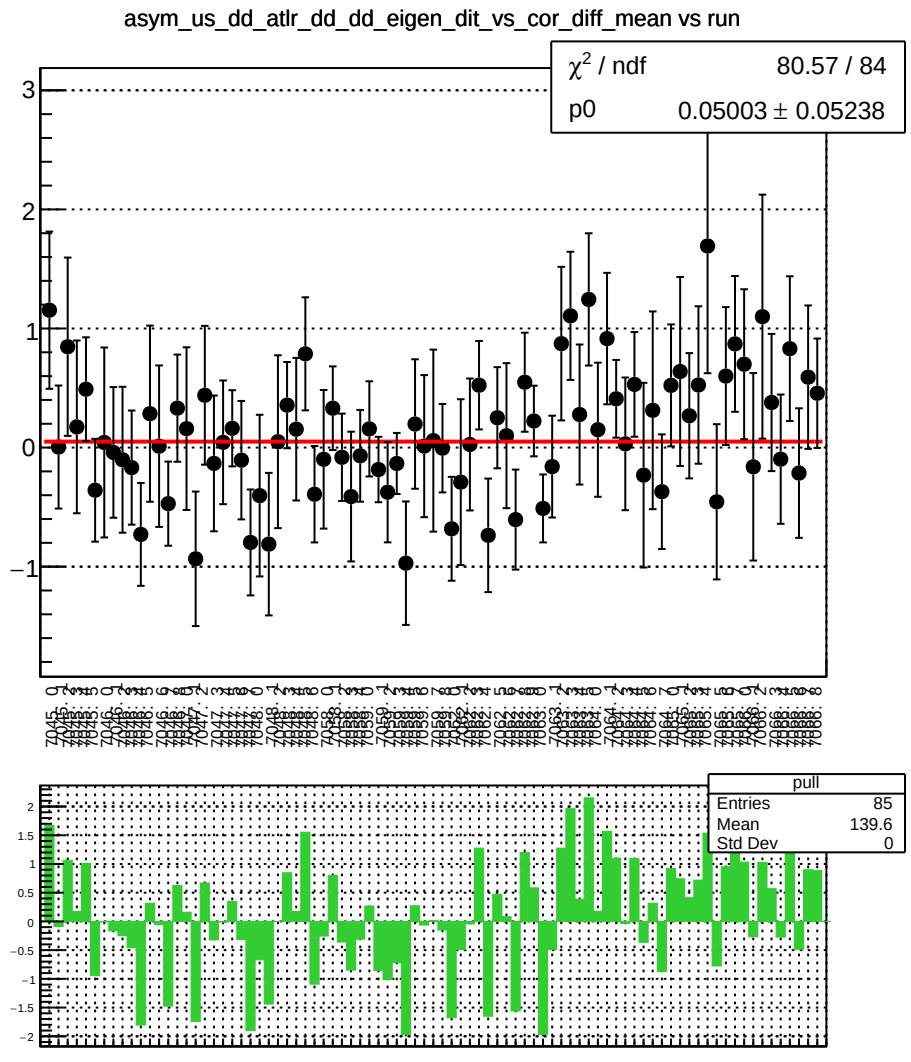

pull1D
Entries 85
Mean 0.06832
Std Dev 0.9712

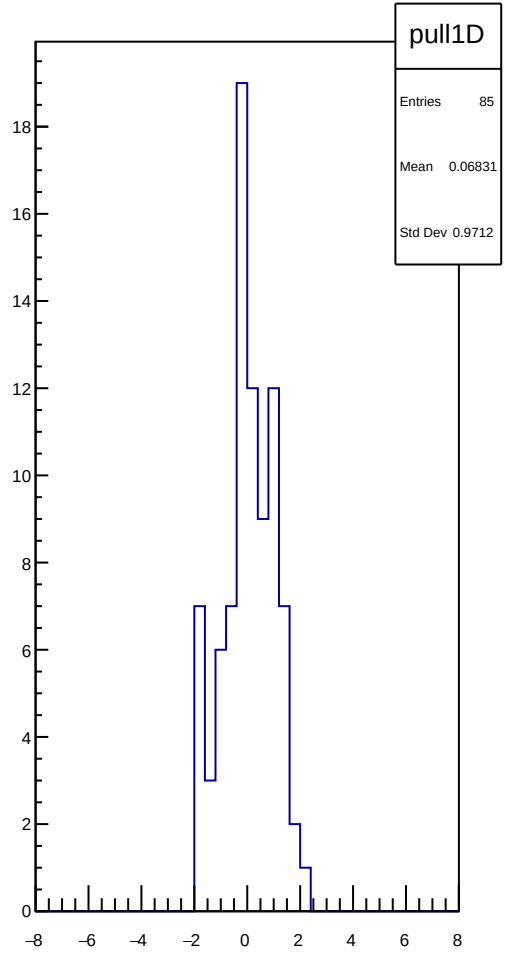

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 84
p0 45.67 ± 0.03704
100
90
80
70
60
50
40
30
20

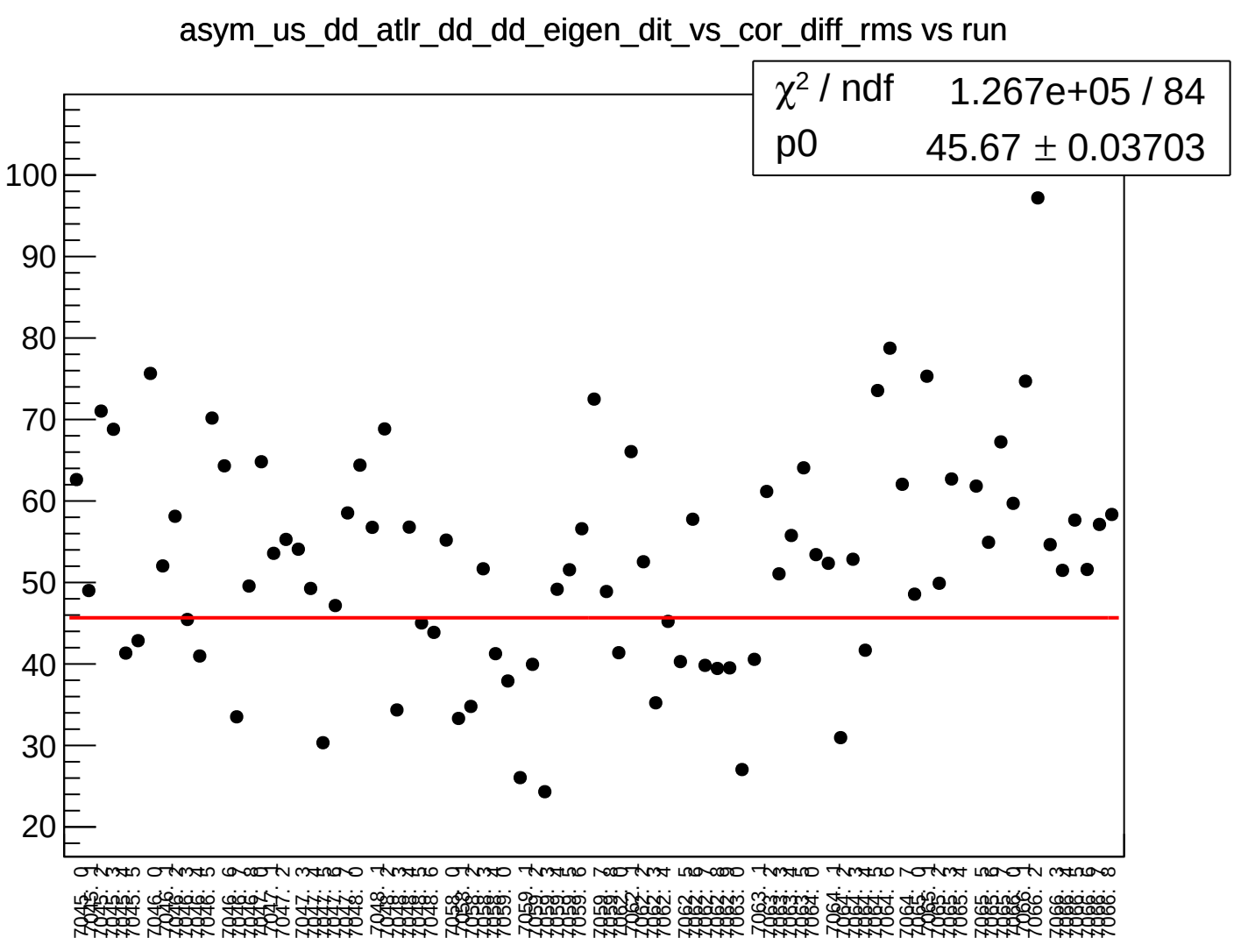

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.28 / 84
p0 −1.161e−05 ± 5.12e−06
pull
Entries 85
Mean −261.5
Std Dev 0

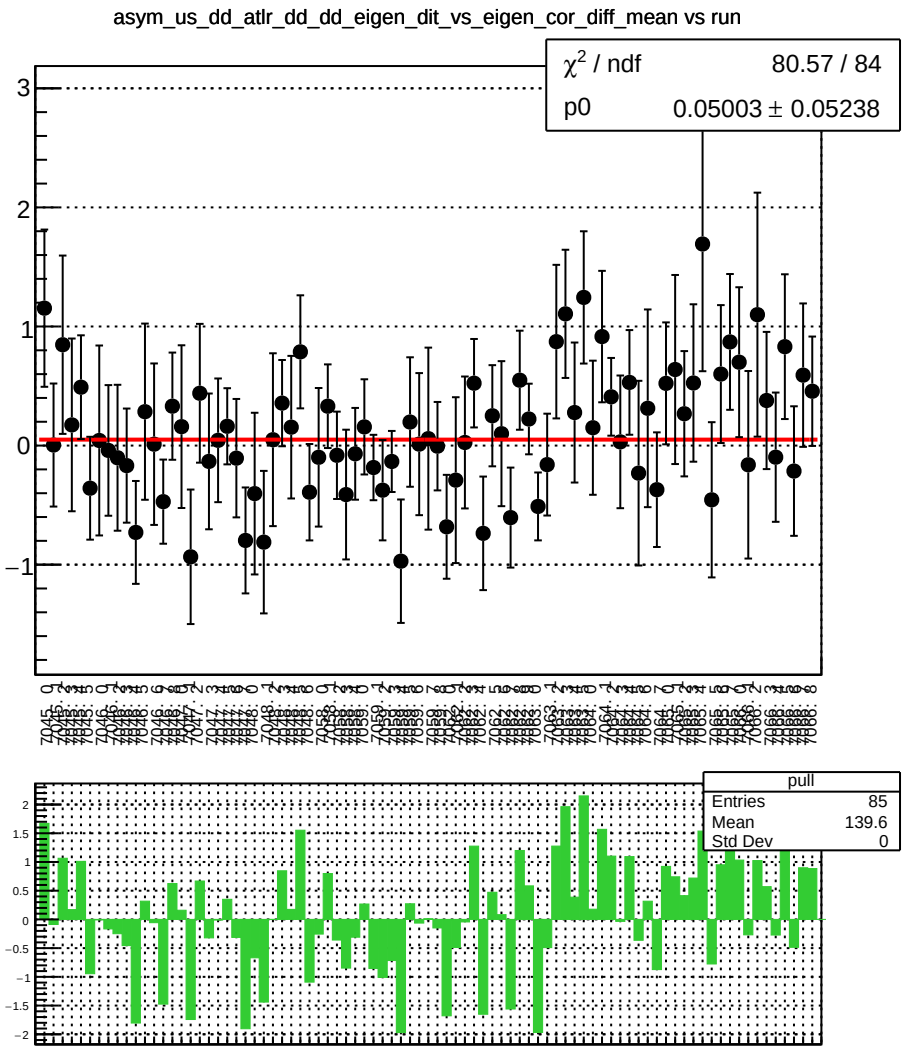

pull1D
Entries 85
Mean 0.01722
Std Dev 0.8829

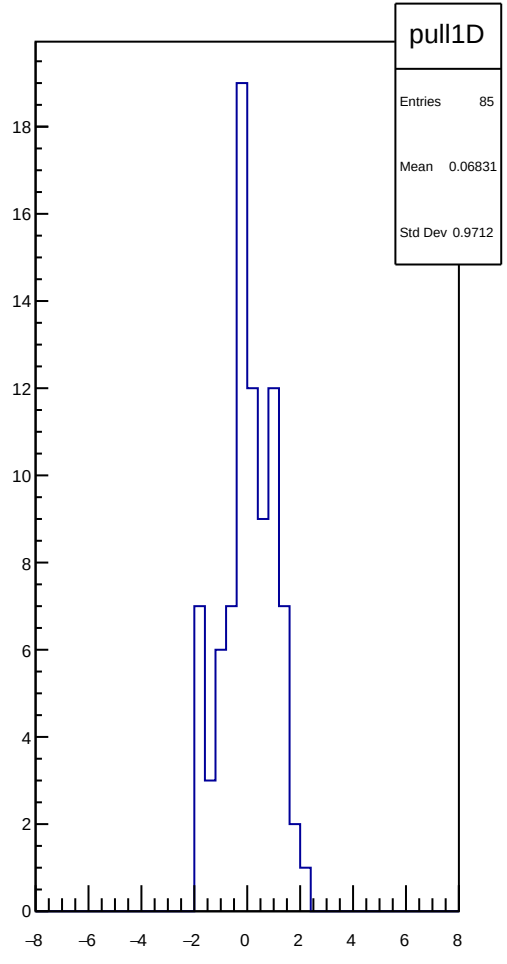

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.283e+04 / 84
p0 0.004628 ± 3.62e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

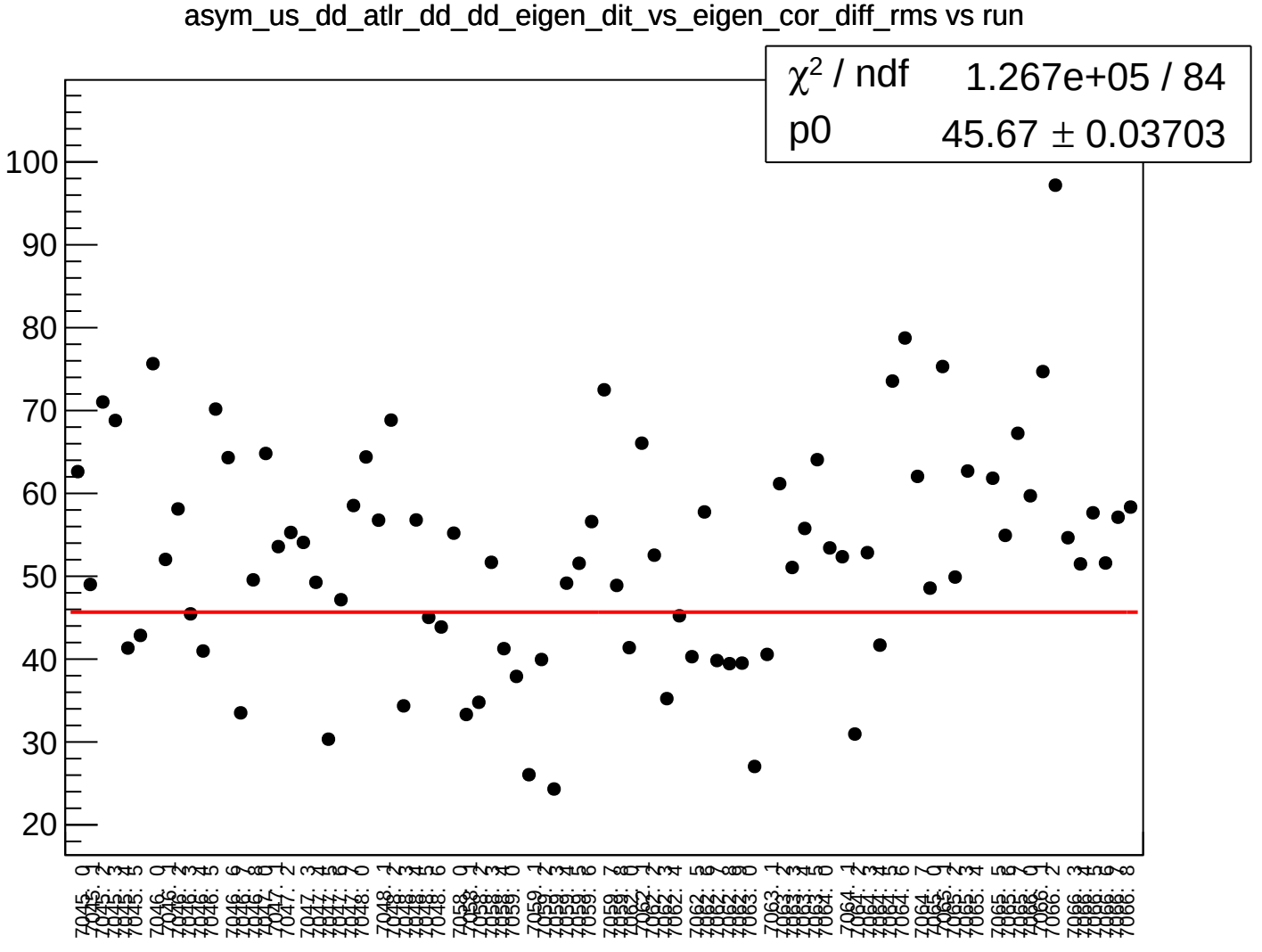

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.57 / 84
p0 0.05003 ± 0.05238
pull
Entries 85
Mean 139.6
Std Dev 0

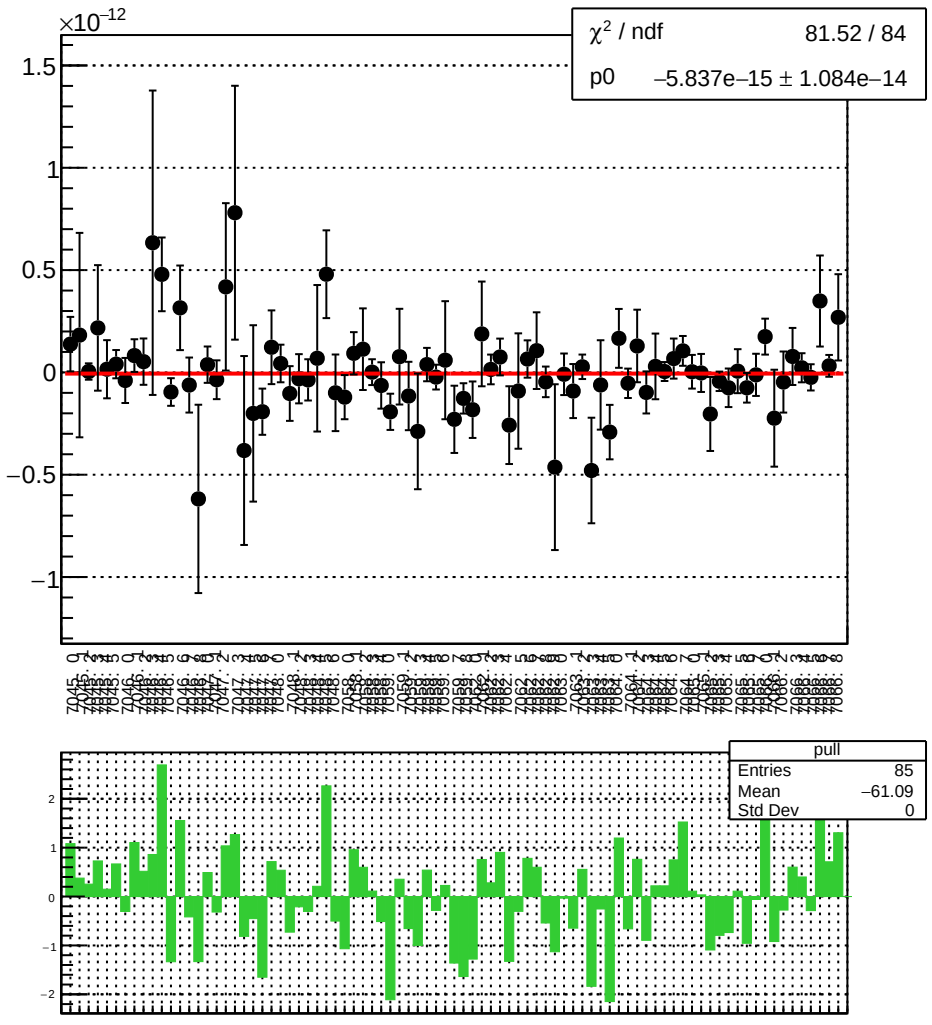

pull1D
Entries 85
Mean 0.06831
Std Dev 0.9712

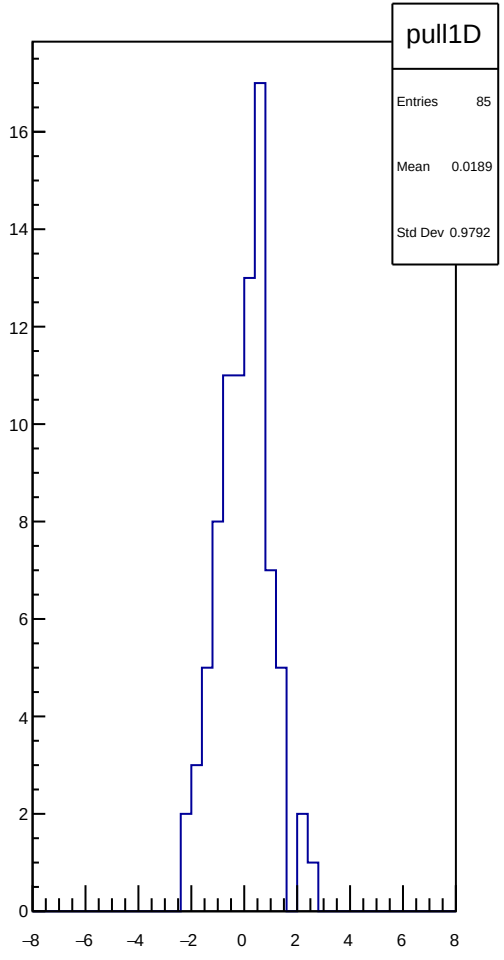

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 84
p0 45.67 ± 0.03703
100
90
80
70
60
50
40
30
20

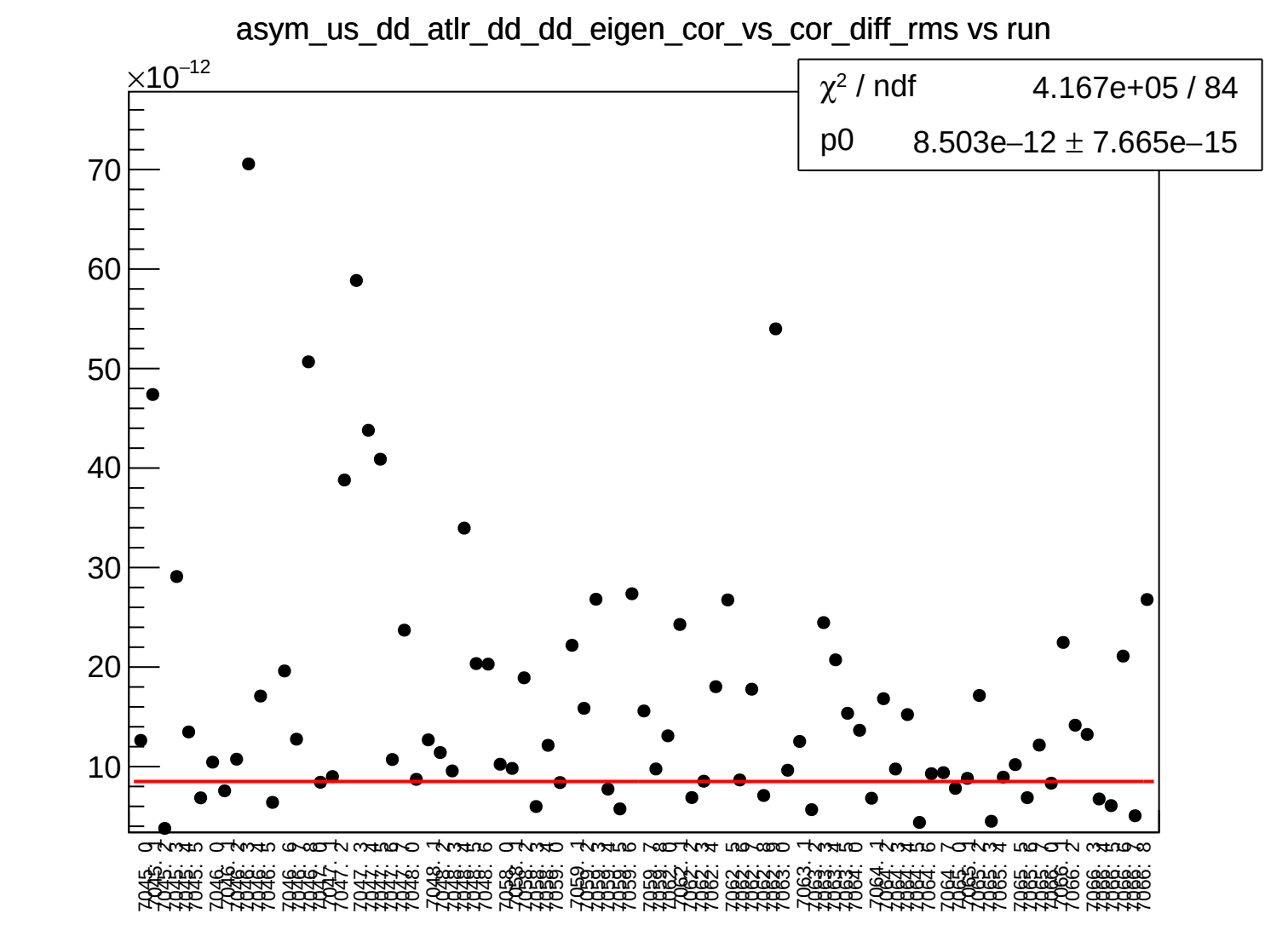

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.57 / 84
p0 0.05003 ± 0.05238
pull
Entries 85
Mean 139.6
Std Dev 0

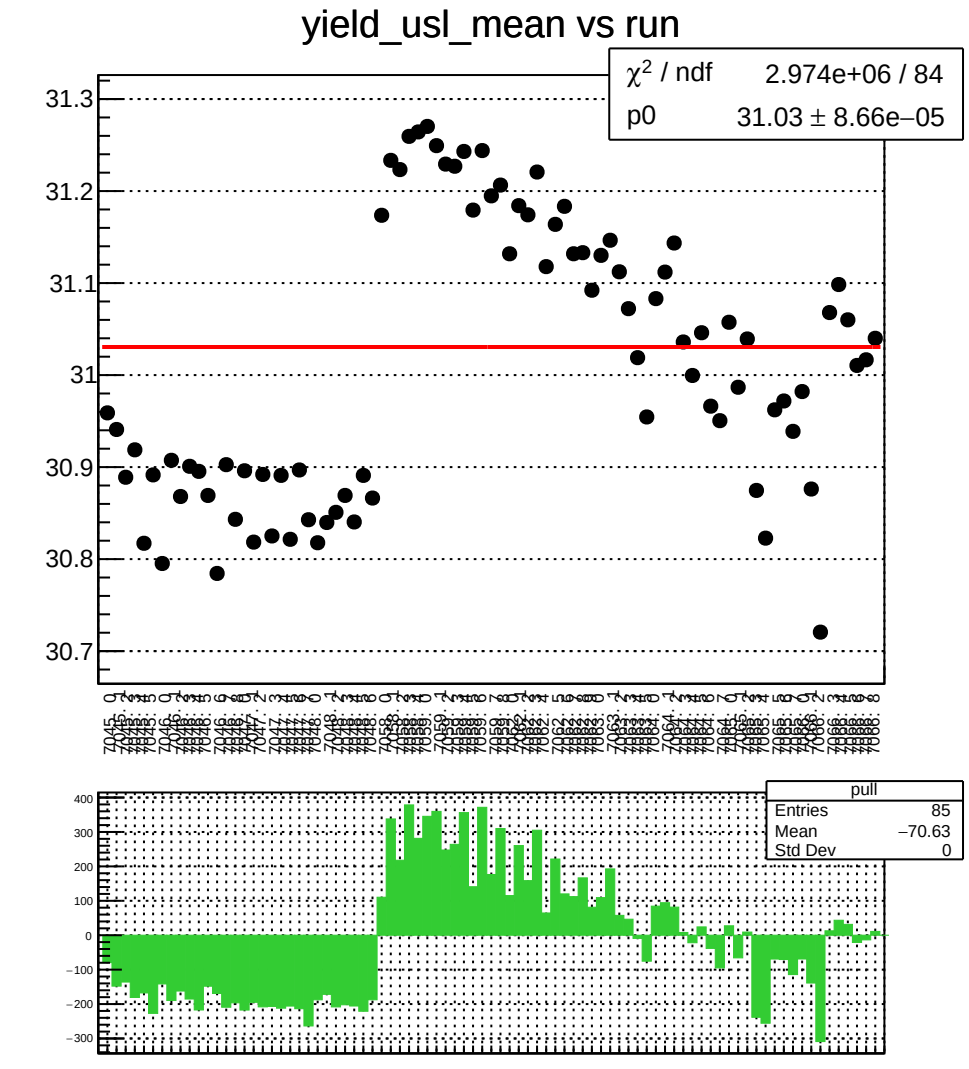

pull1D
Entries 85
Mean 0.06831
Std Dev 0.9712

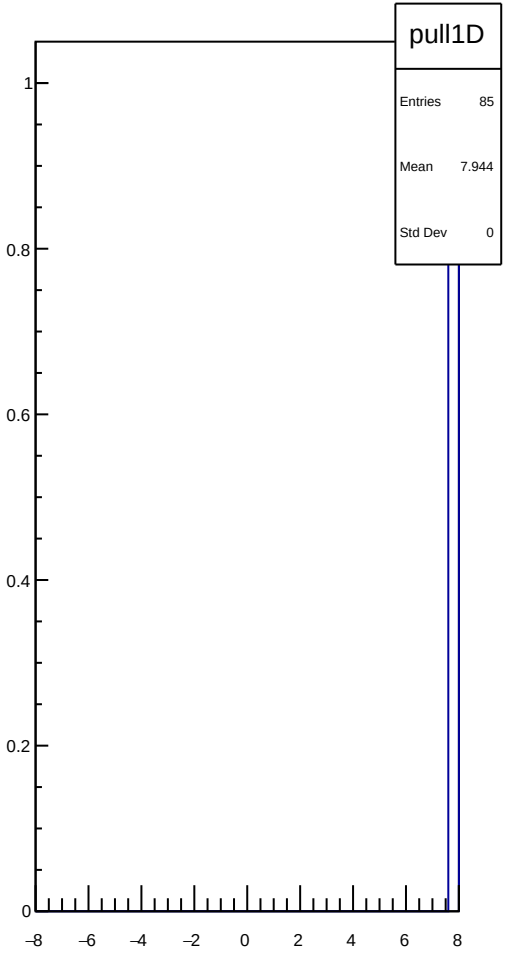

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 84
p0 45.67 ± 0.03703
100
90
80
70
60
50
40
30
20

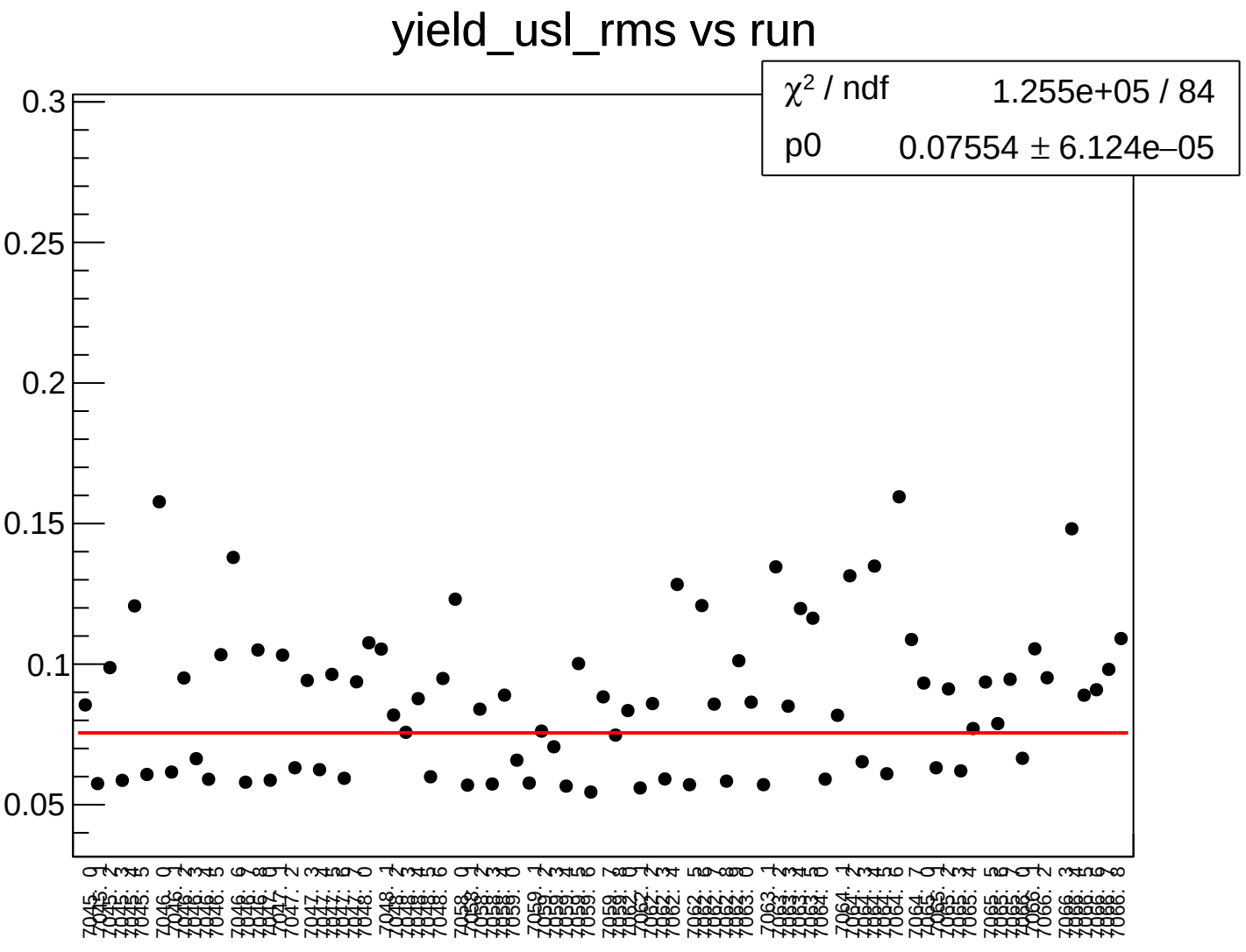

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.52 / 84
p0 −5.837e−15 ± 1.084e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 85
Mean −61.09
Std Dev 0
2
1
0
−1
−2

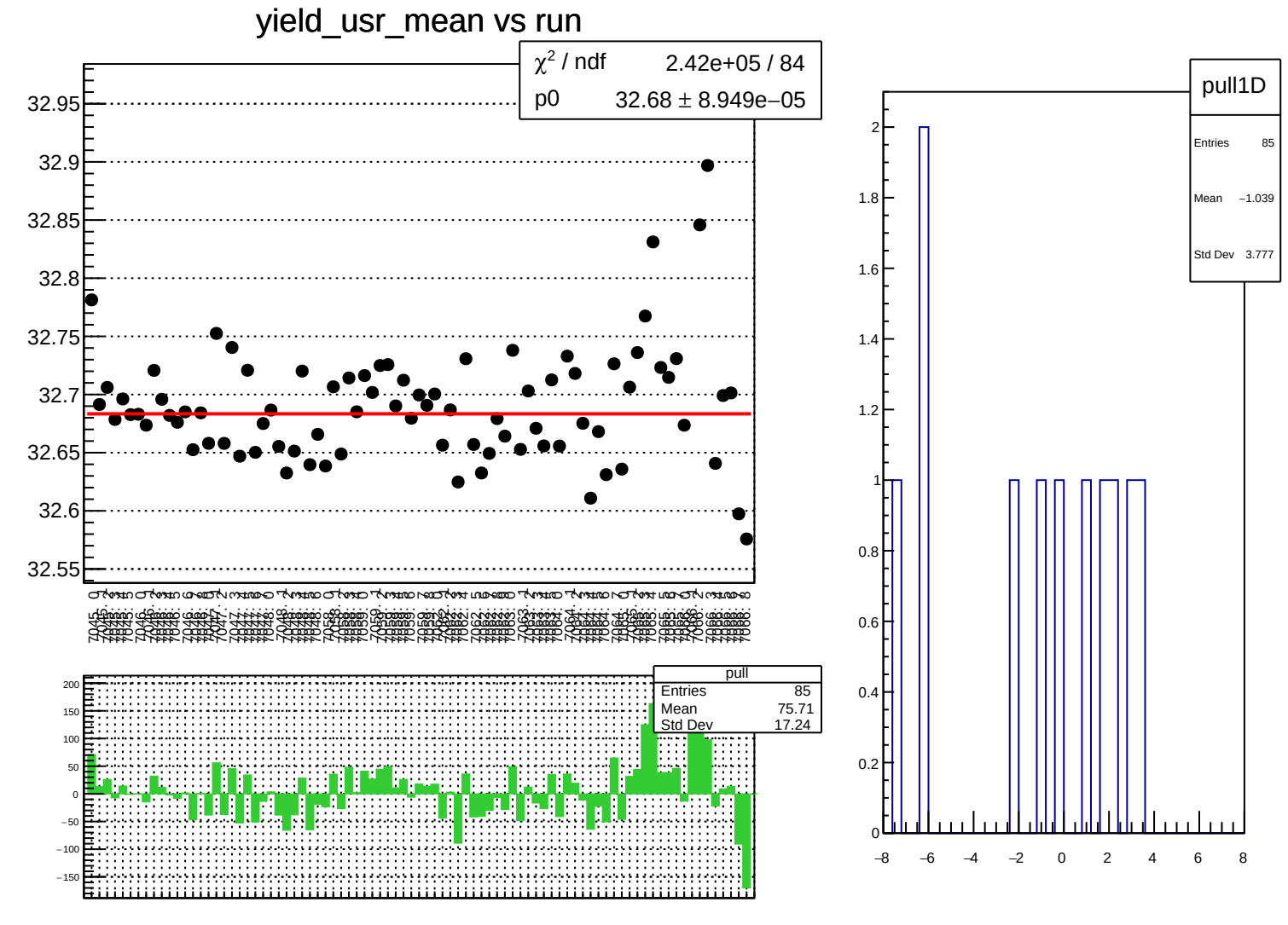

pull1D
Entries 85
Mean 0.0189
Std Dev 0.9792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

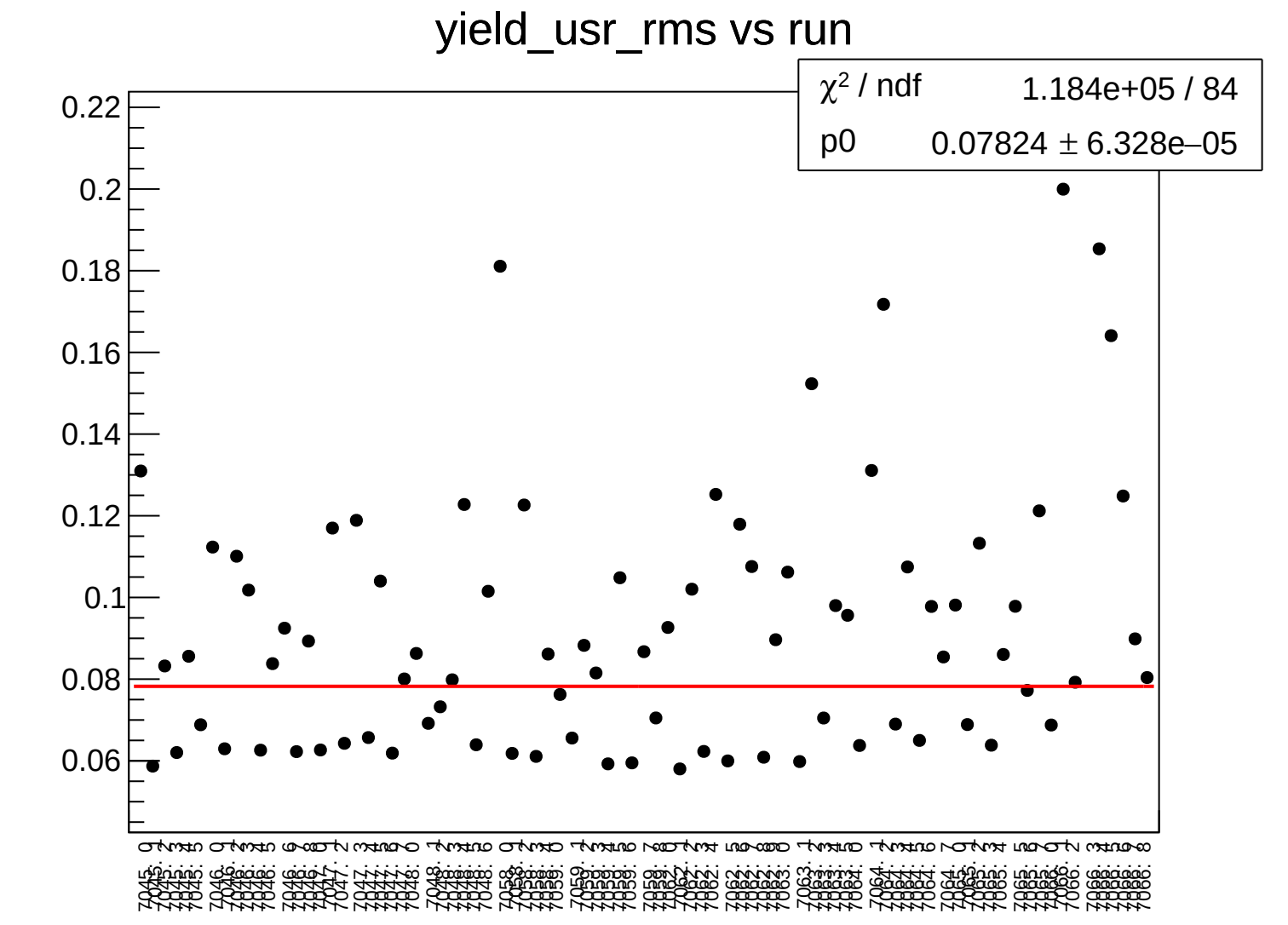

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.167e+05 / 84
p0 8.503e−12 ± 7.665e−15
70
60
50
40
30
20
10

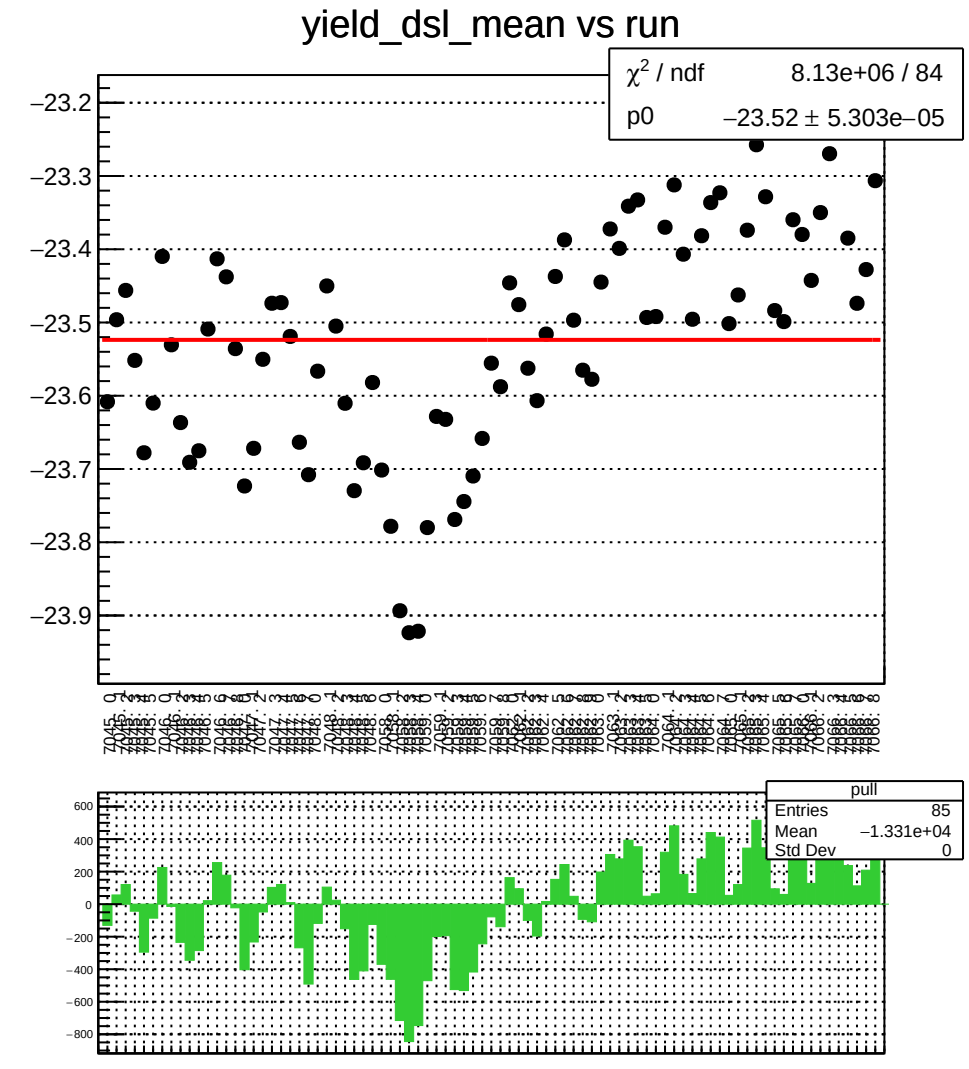

yield_usl_mean vs run
χ² / ndf 2.974e+06 / 84
p0 31.03 ± 8.66e−05
31.3
31.2
31.1
31
30.9
30.8
30.7
pull
Entries 85
Mean −70.63
Std Dev 0
400
300
200
100
0
−100
−200
−300

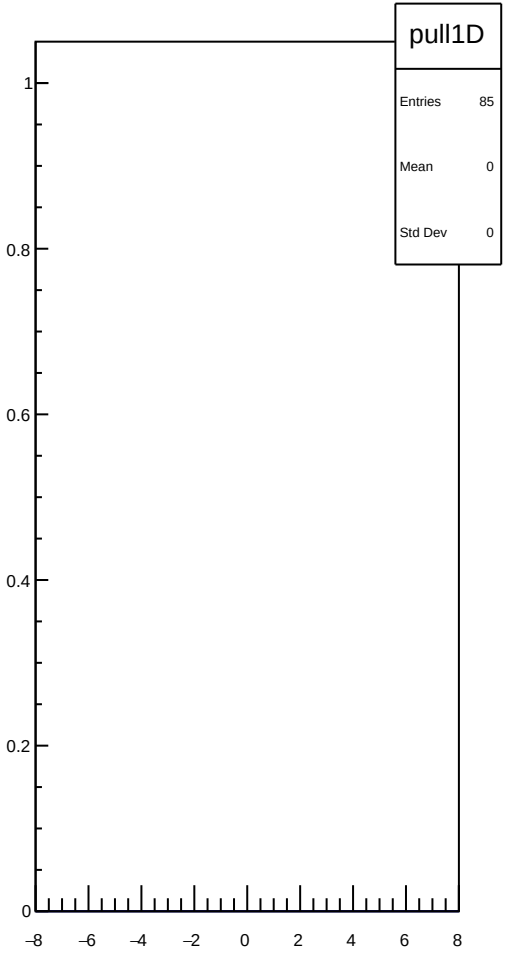

pull1D
Entries 85
Mean 7.944
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

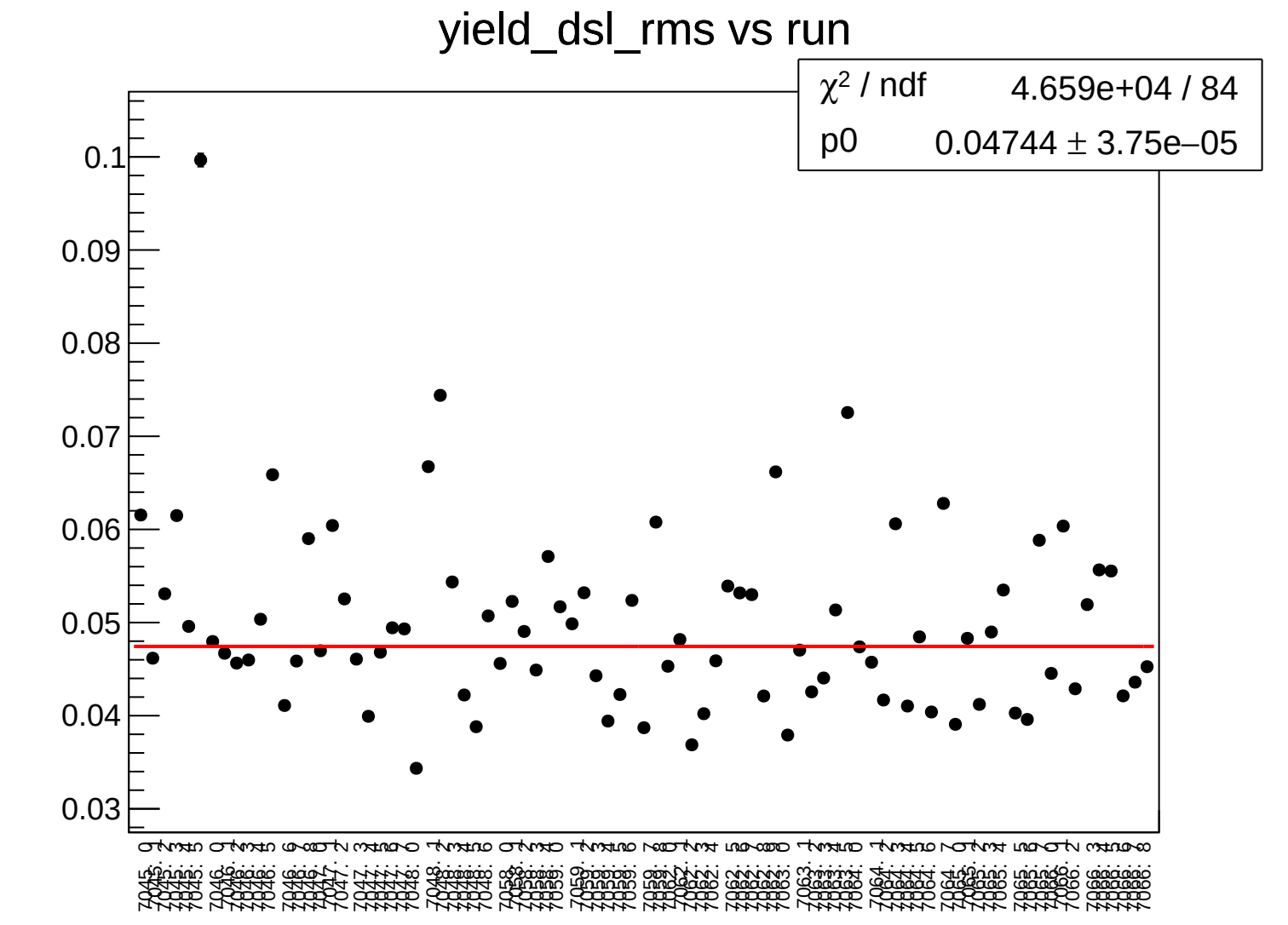

yield_usl_rms vs run
χ² / ndf 1.255e+05 / 84
p0 0.07554 ± 6.124e−05
0.3
0.25
0.2
0.15
0.1
0.05

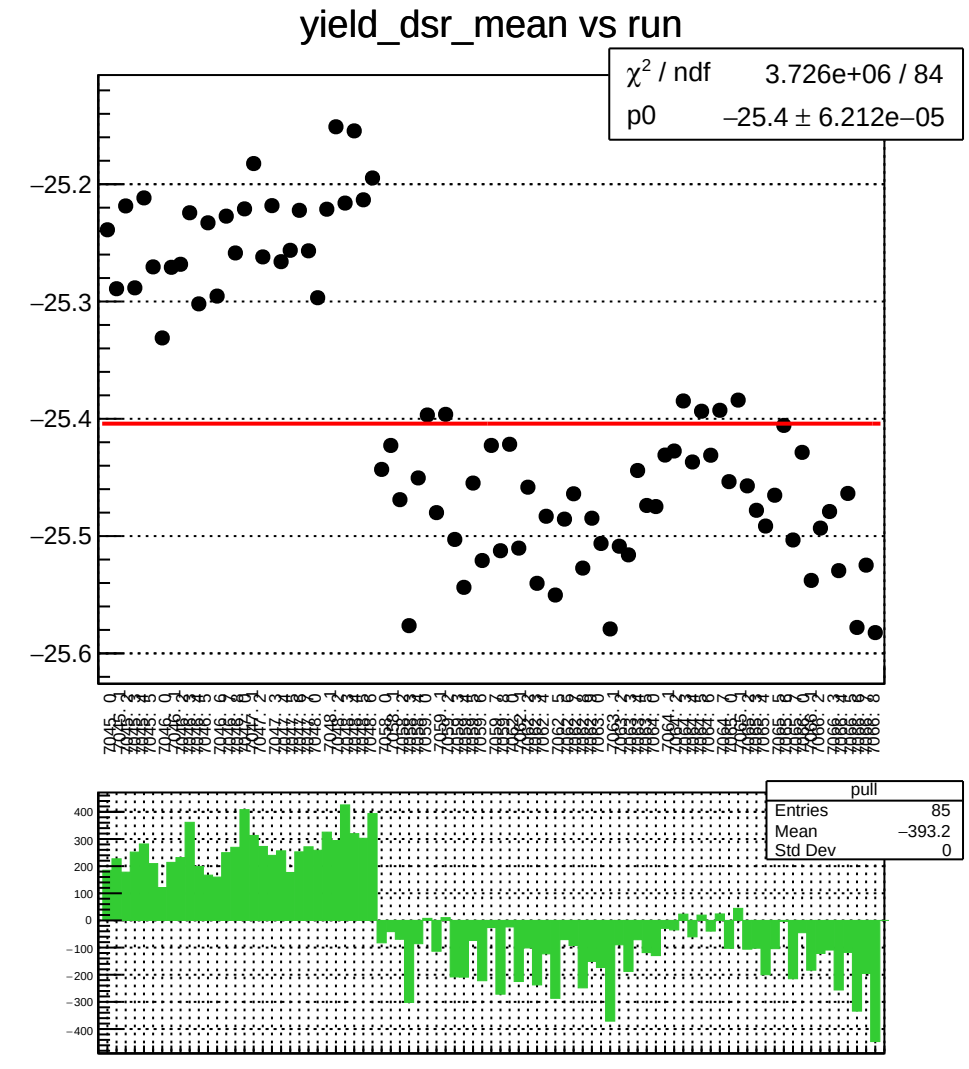

yield_usr_mean vs run
χ² / ndf 2.42e+05 / 84
p0 32.68 ± 8.949e−05
32.95
32.9
32.85
32.8
32.75
32.7
32.65
32.6
32.55
pull
Entries 85
Mean 75.71
Std Dev 17.24
200
150
100
50
0
−50
−100
−150
pull1D
Entries 85
Mean −1.039
Std Dev 3.777
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

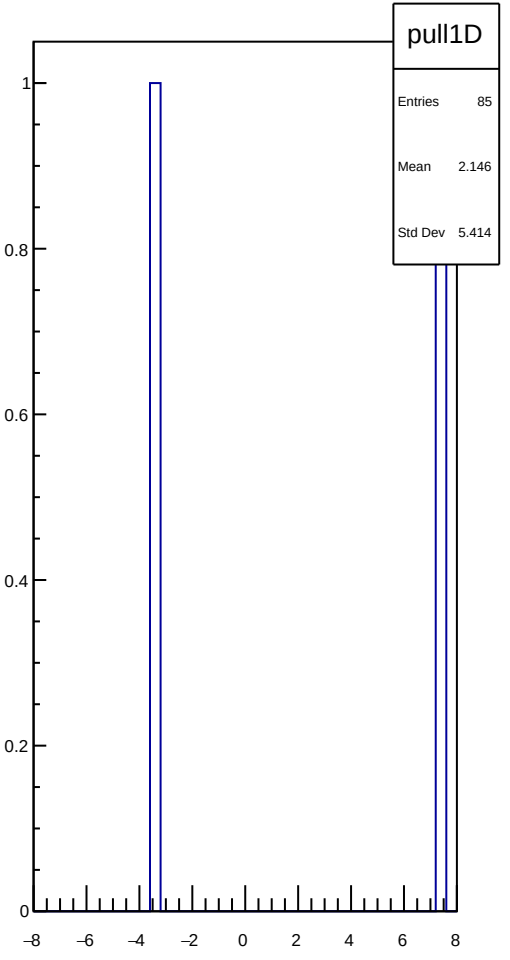

yield_usr_rms vs run
χ² / ndf 1.184e+05 / 84
p0 0.07824 ± 6.328e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

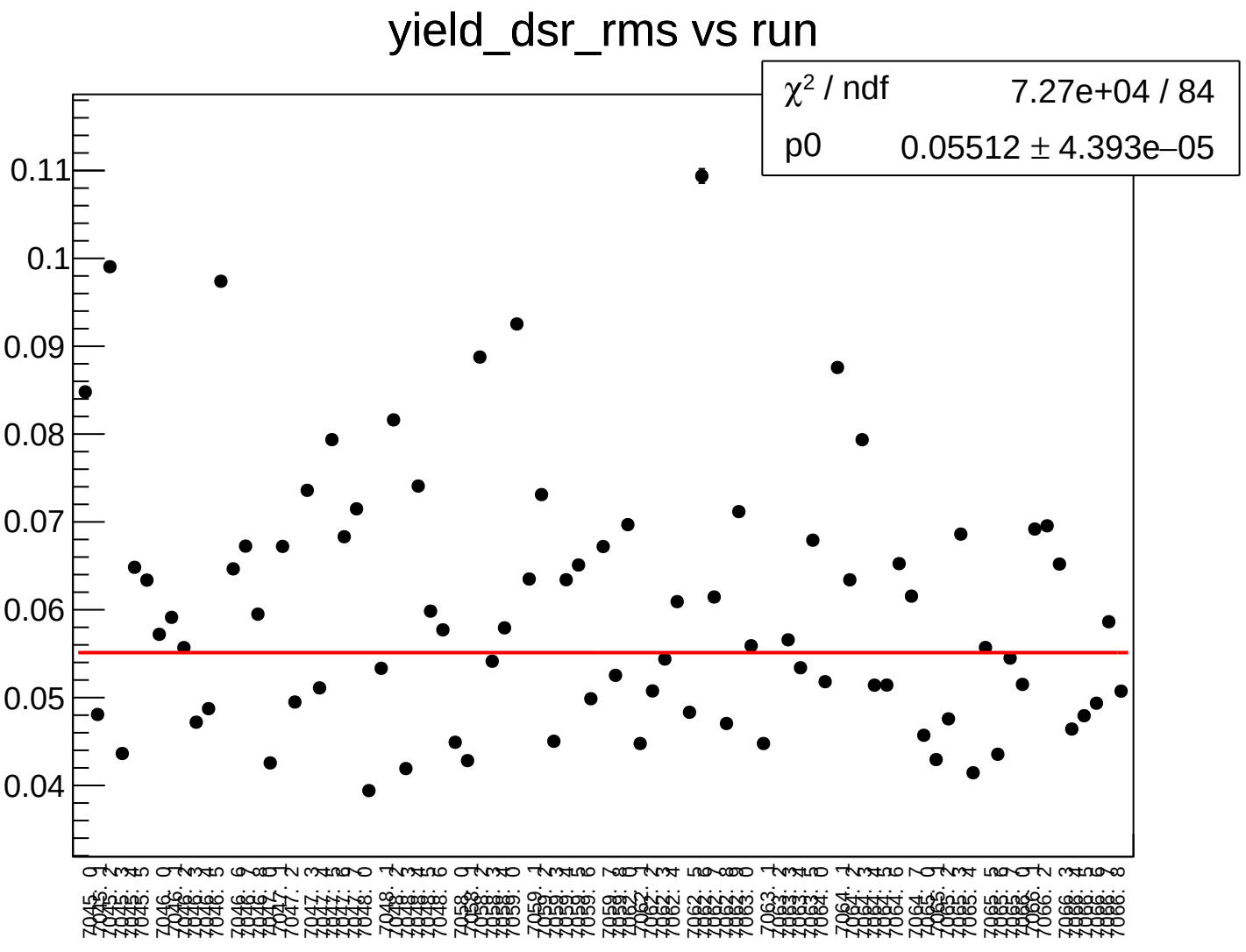

yield_dsl_mean vs run
χ² / ndf 8.13e+06 / 84
p0 −23.52 ± 5.303e−05
−23.2
−23.3
−23.4
−23.5
−23.6
−23.7
−23.8
−23.9
pull
Entries 85
Mean −1.331e+04
Std Dev 0
600
400
200
0
−200
−400
−600
−800

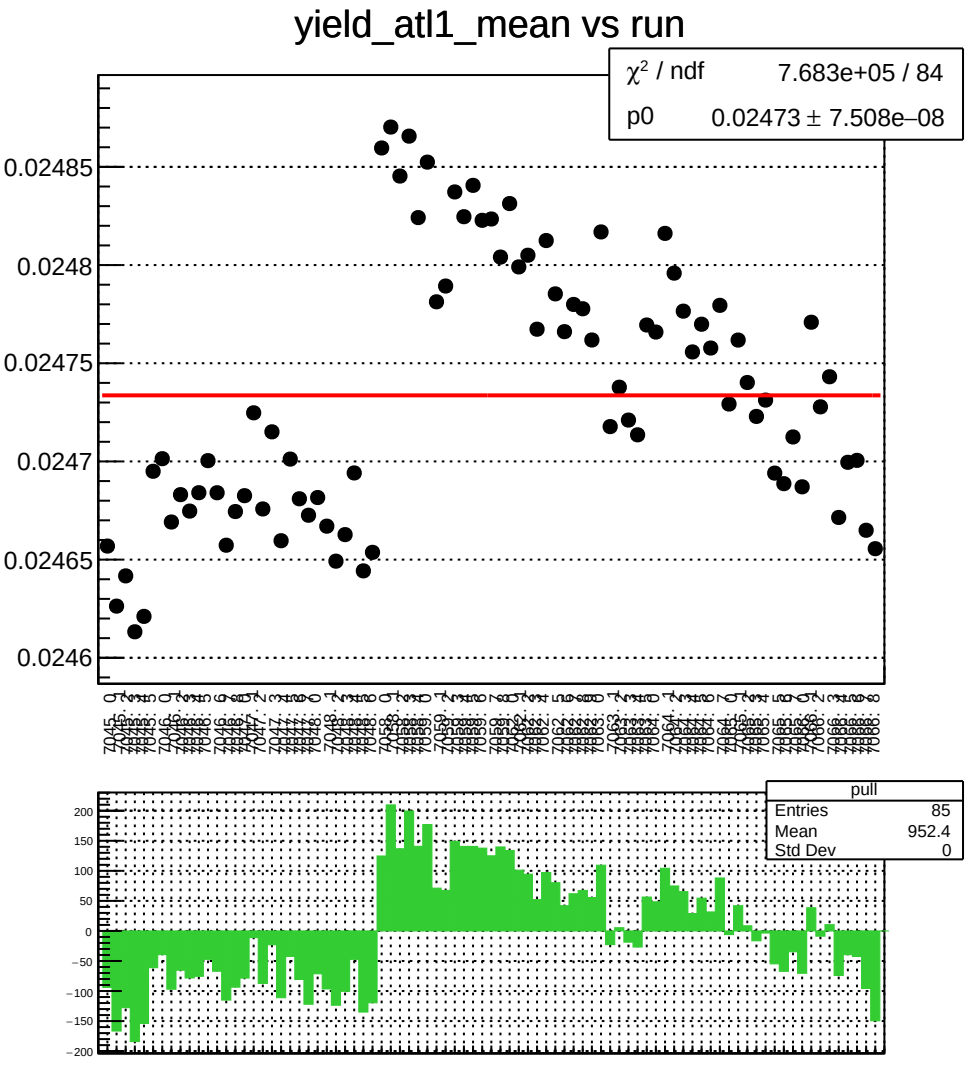

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

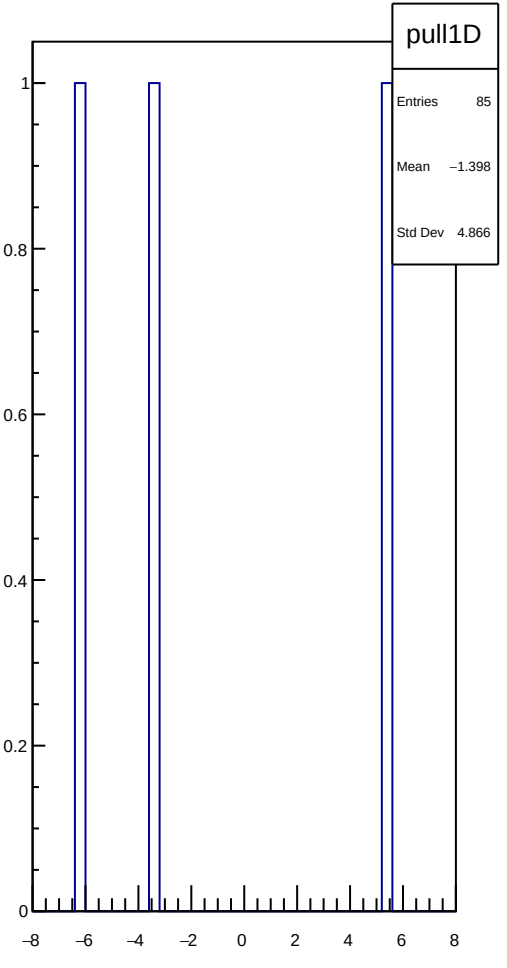

yield_dsl_rms vs run
χ^2 / ndf 4.659e+04 / 84
p0 0.04744 ± 3.75e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

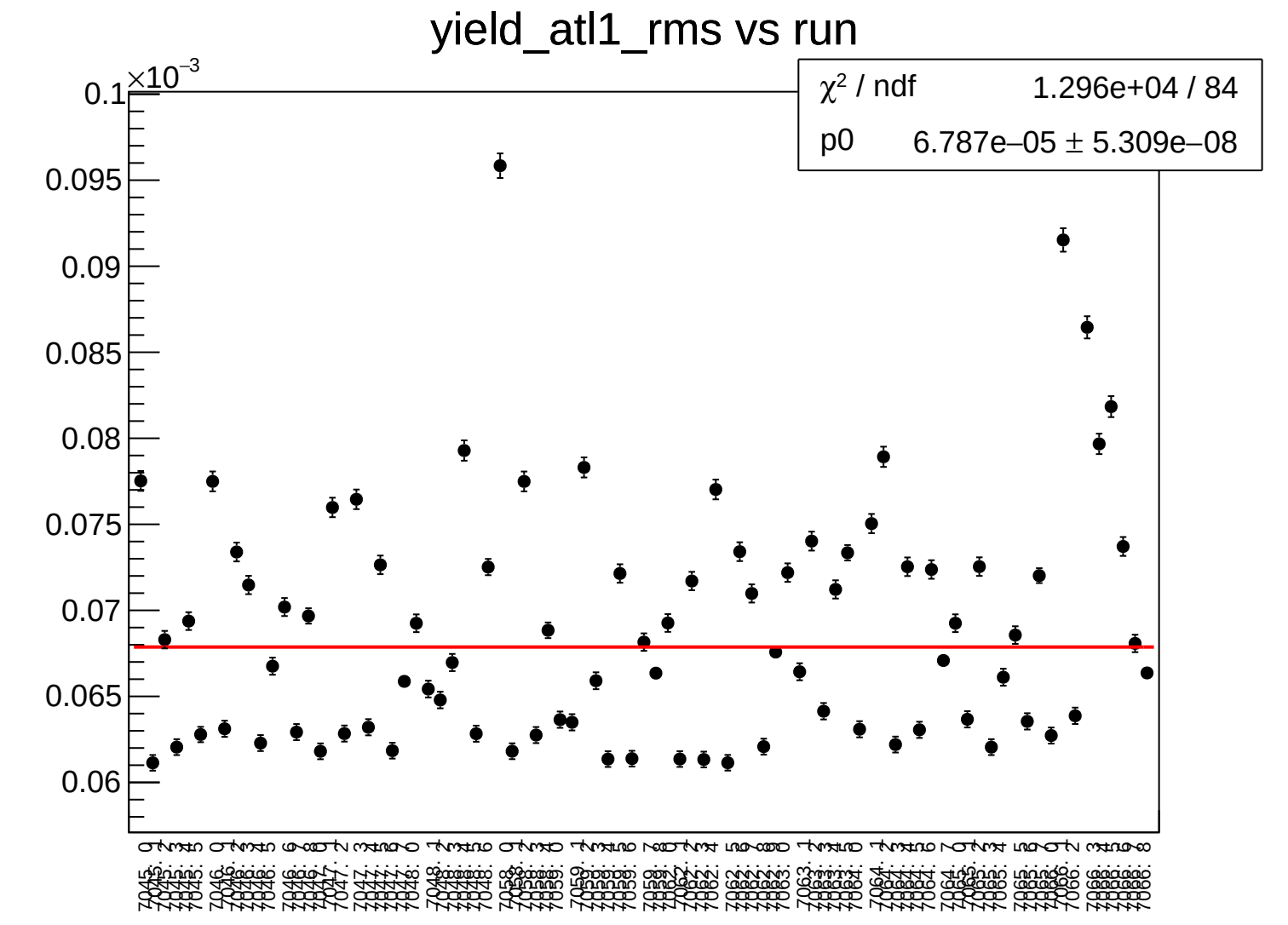

yield_dsr_mean vs run
χ² / ndf 3.726e+06 / 84
p0 −25.4 ± 6.212e−05
−25.2
−25.3
−25.4
−25.5
−25.6
pull
Entries 85
Mean −393.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

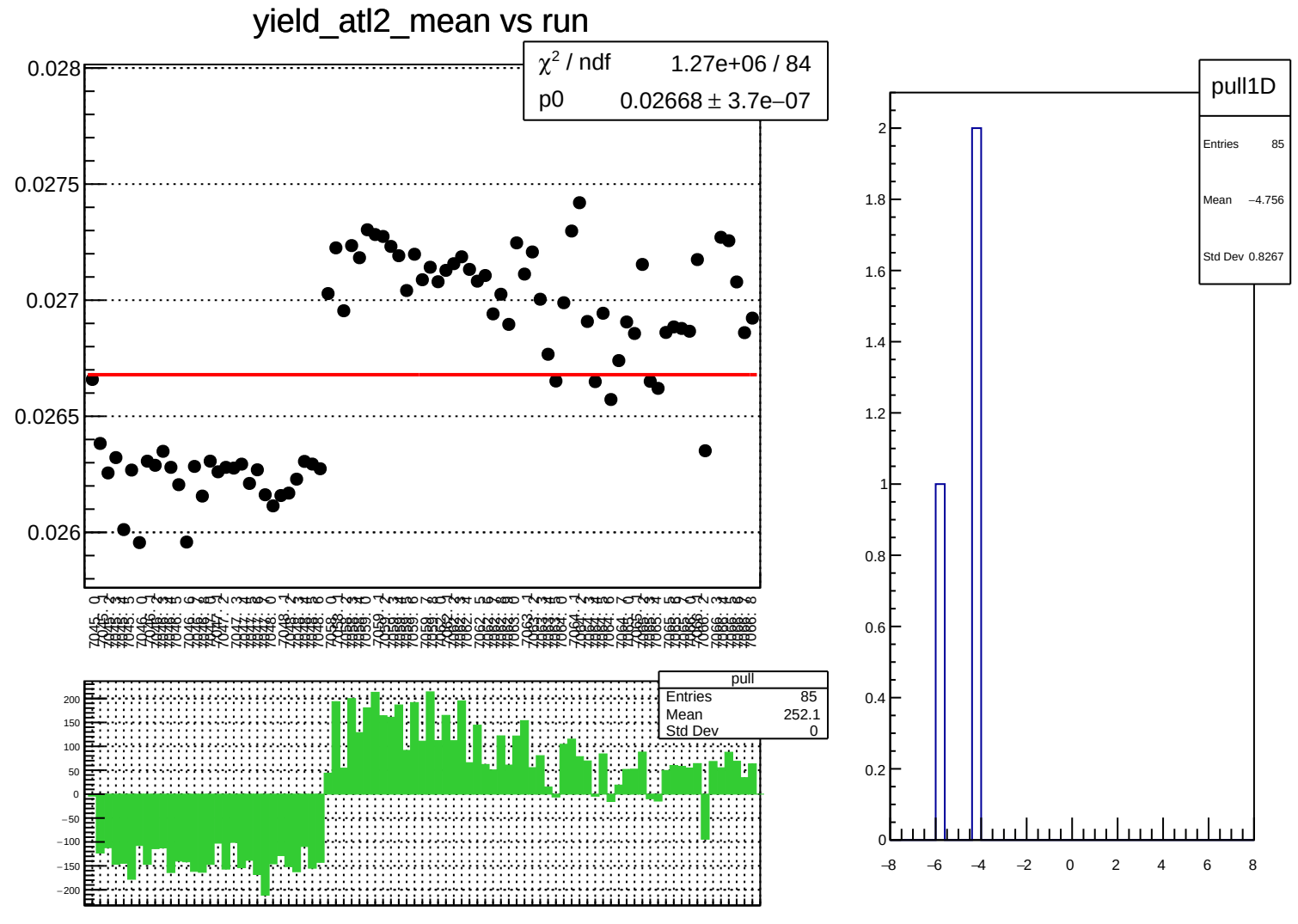

pull1D
Entries 85
Mean 2.146
Std Dev 5.414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

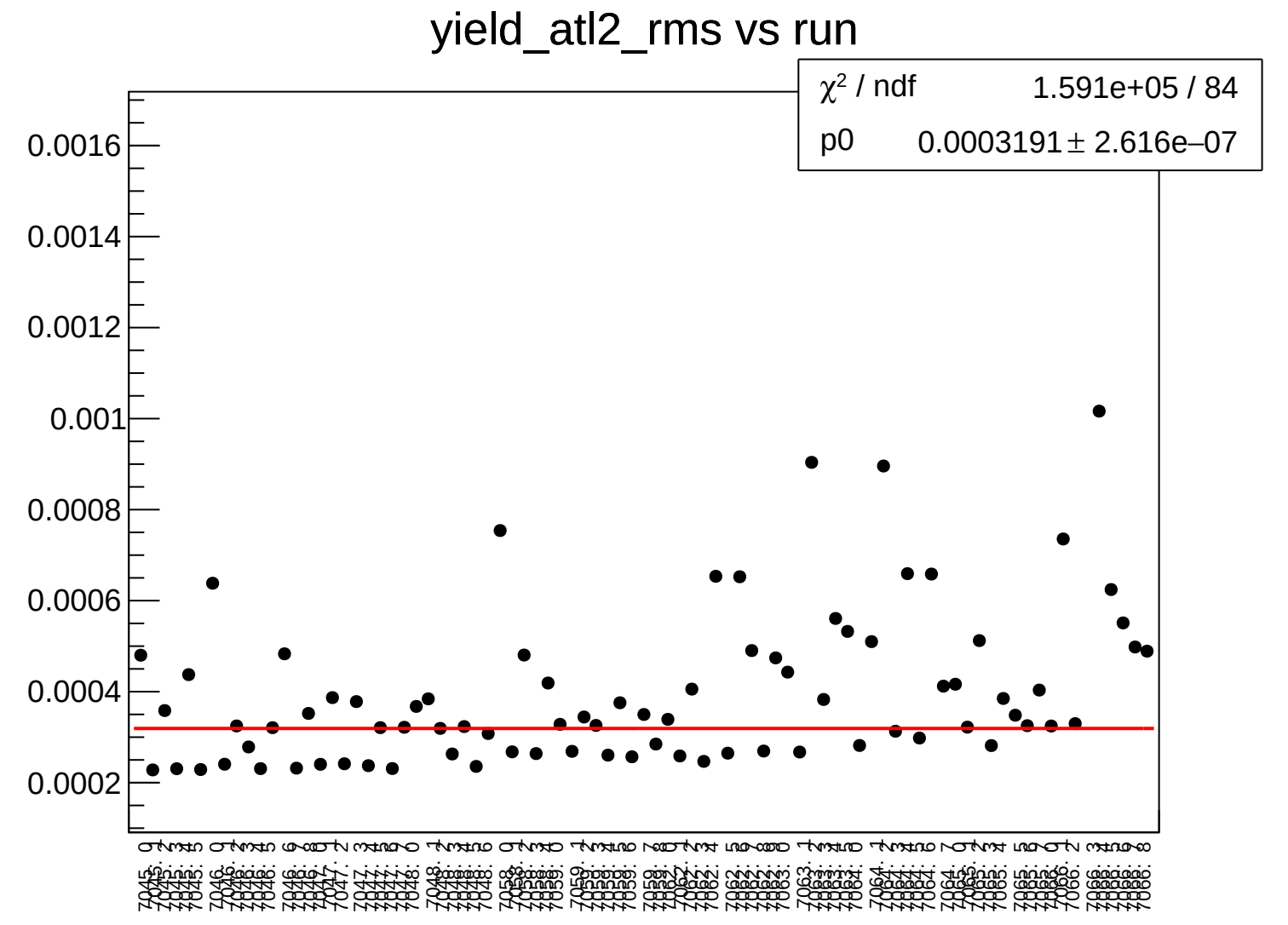

yield_dsr_rms vs run
χ² / ndf 7.27e+04 / 84
p0 0.05512 ± 4.393e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

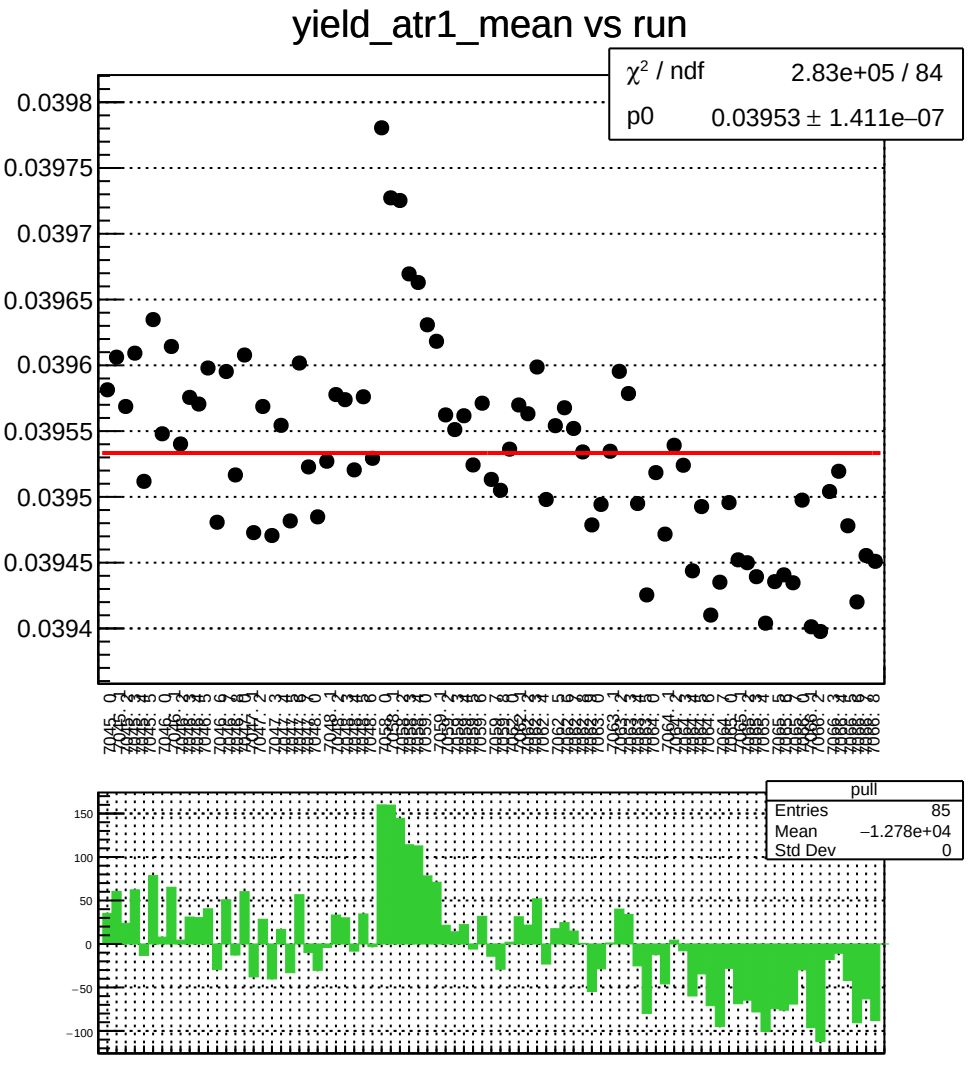

yield_atl1_mean vs run
χ² / ndf 7.683e+05 / 84
p0 0.02473 ± 7.508e−08
0.02485
0.0248
0.02475
0.0247
0.02465
0.0246
pull
Entries 85
Mean 952.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

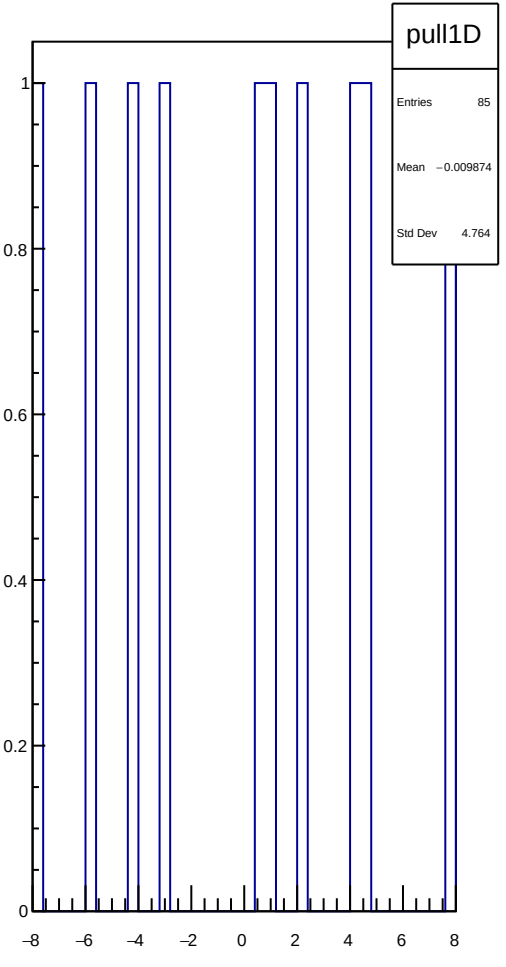

pull1D
Entries 85
Mean −1.398
Std Dev 4.866
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

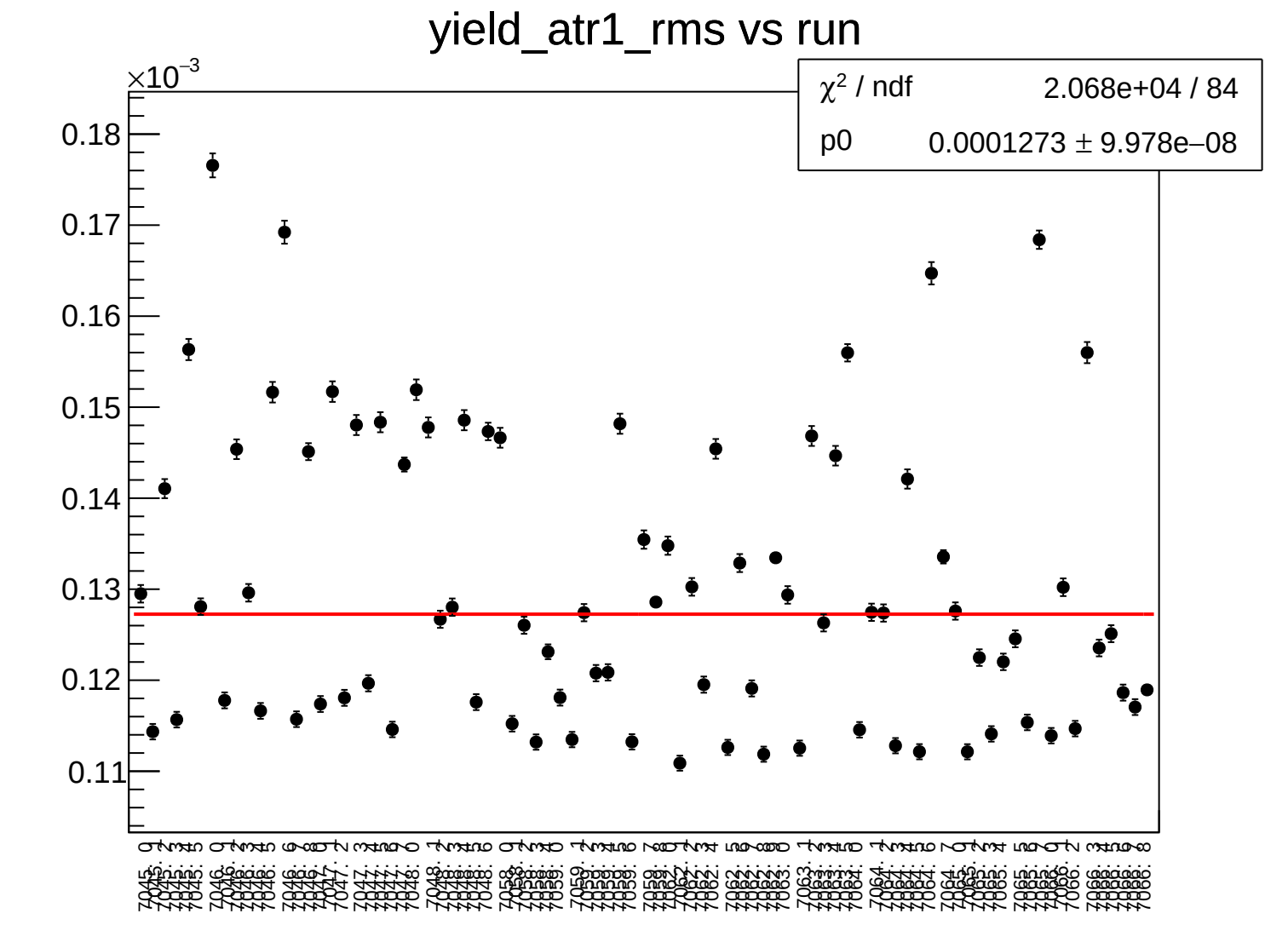

yield_atl1_rms vs run
χ^2 / ndf 1.296e+04 / 84
p0 6.787e−05 ± 5.309e−08
$\times 10^{-3}$
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

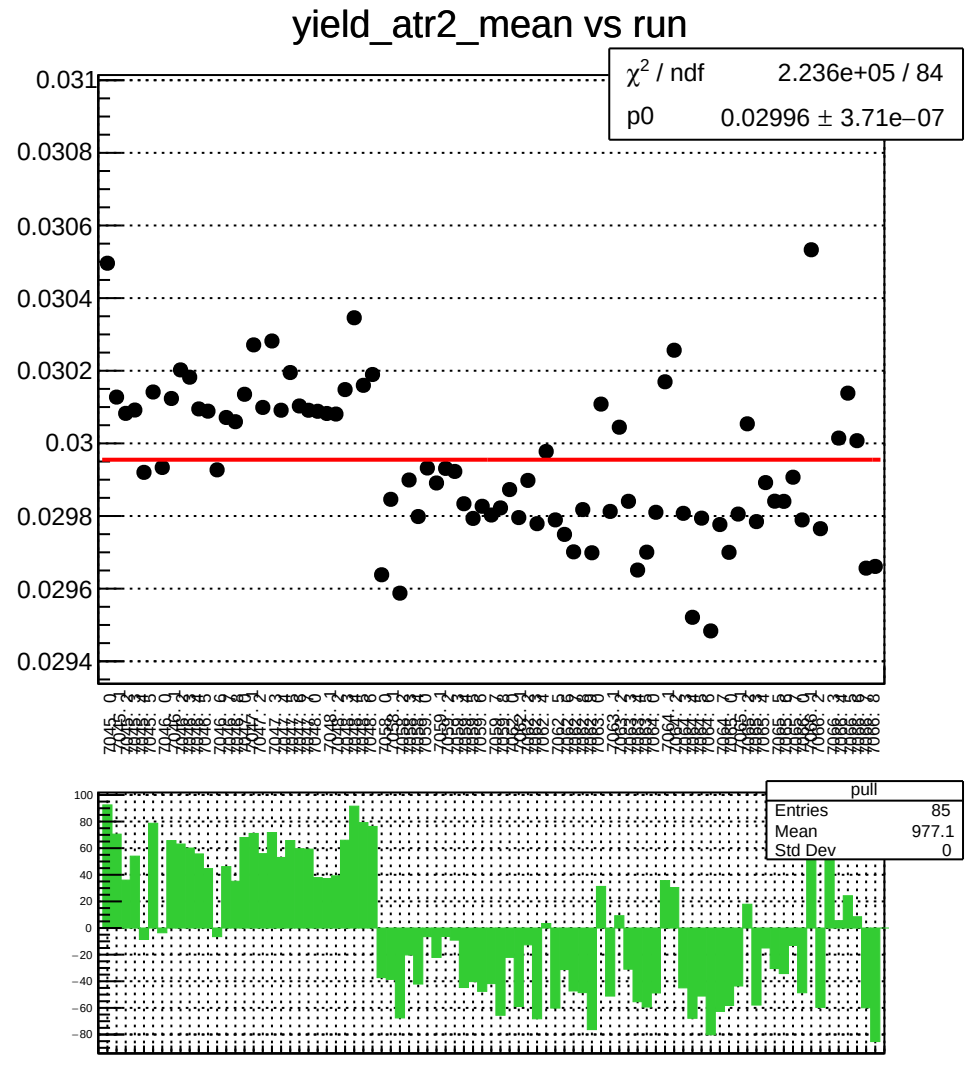

yield_atl2_mean vs run
χ² / ndf 1.27e+06 / 84
p0 0.02668 ± 3.7e−07
0.028
0.0275
0.027
0.0265
0.026
pull
Entries 85
Mean 252.1
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 85
Mean −4.756
Std Dev 0.8267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

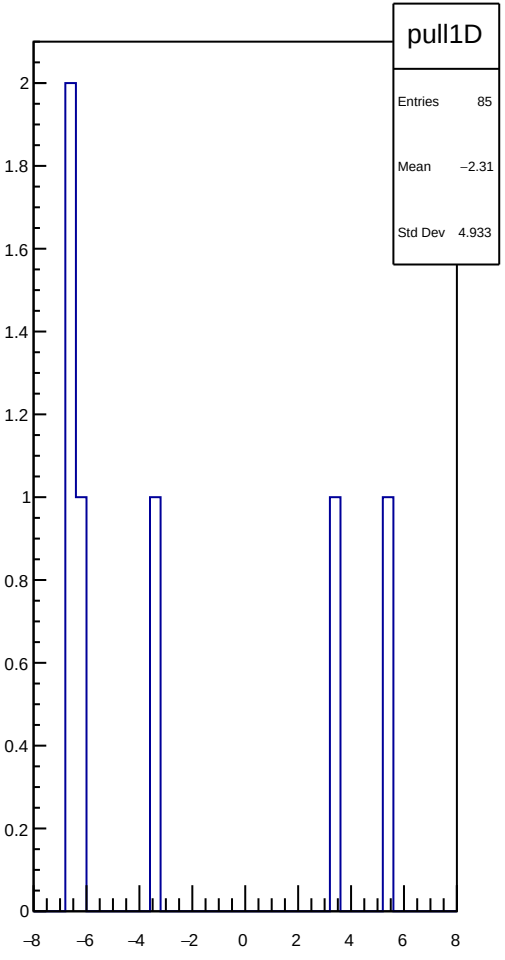

yield_atl2_rms vs run
χ² / ndf 1.591e+05 / 84
p0 0.0003191 ± 2.616e–07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

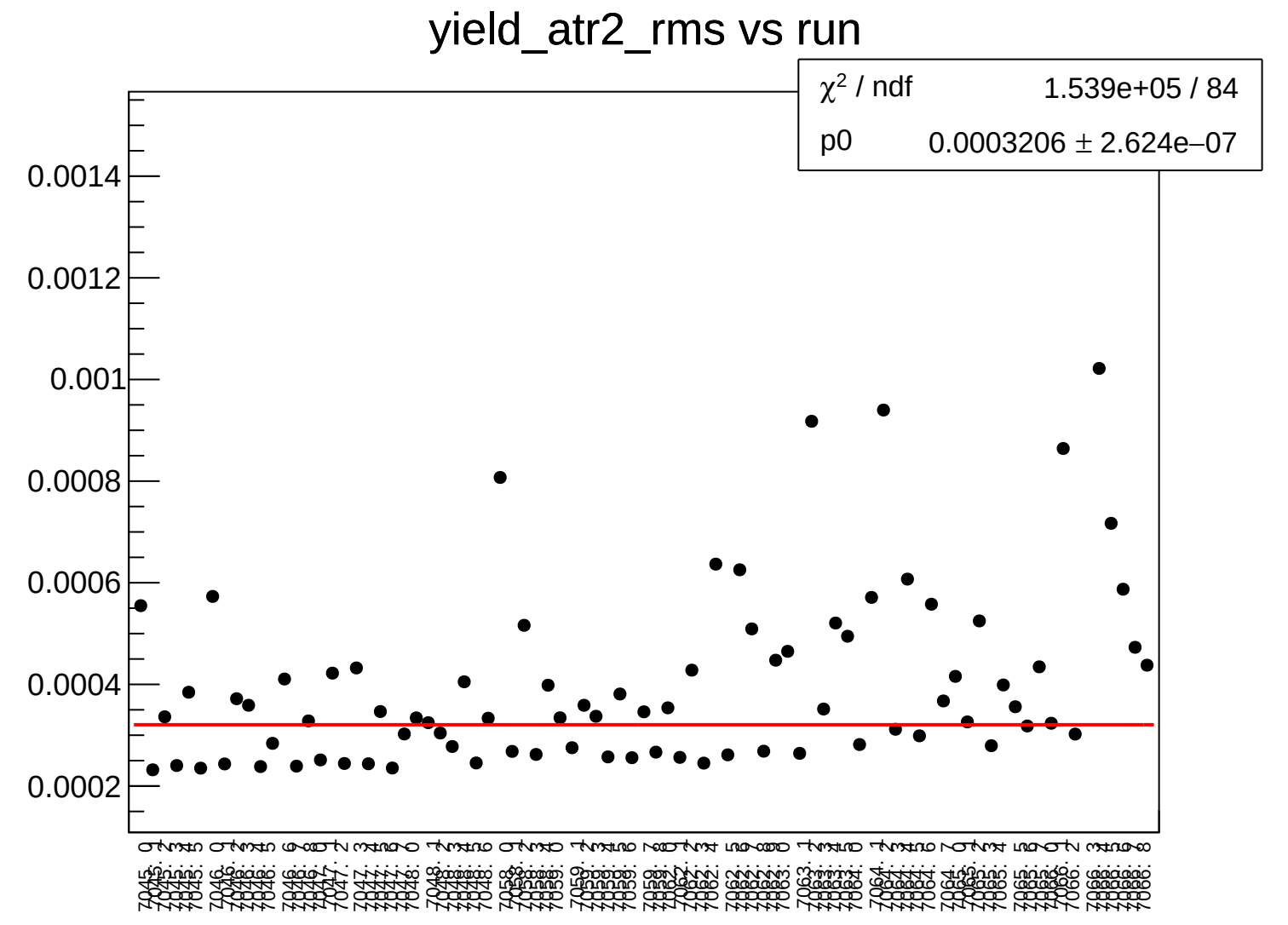

yield_atr1_mean vs run
χ² / ndf 2.83e+05 / 84
p0 0.03953 ± 1.411e−07
0.0398
0.03975
0.0397
0.03965
0.0396
0.03955
0.0395
0.03945
0.0394
pull
Entries 85
Mean −1.278e+04
Std Dev 0
150
100
50
0
−50
−100

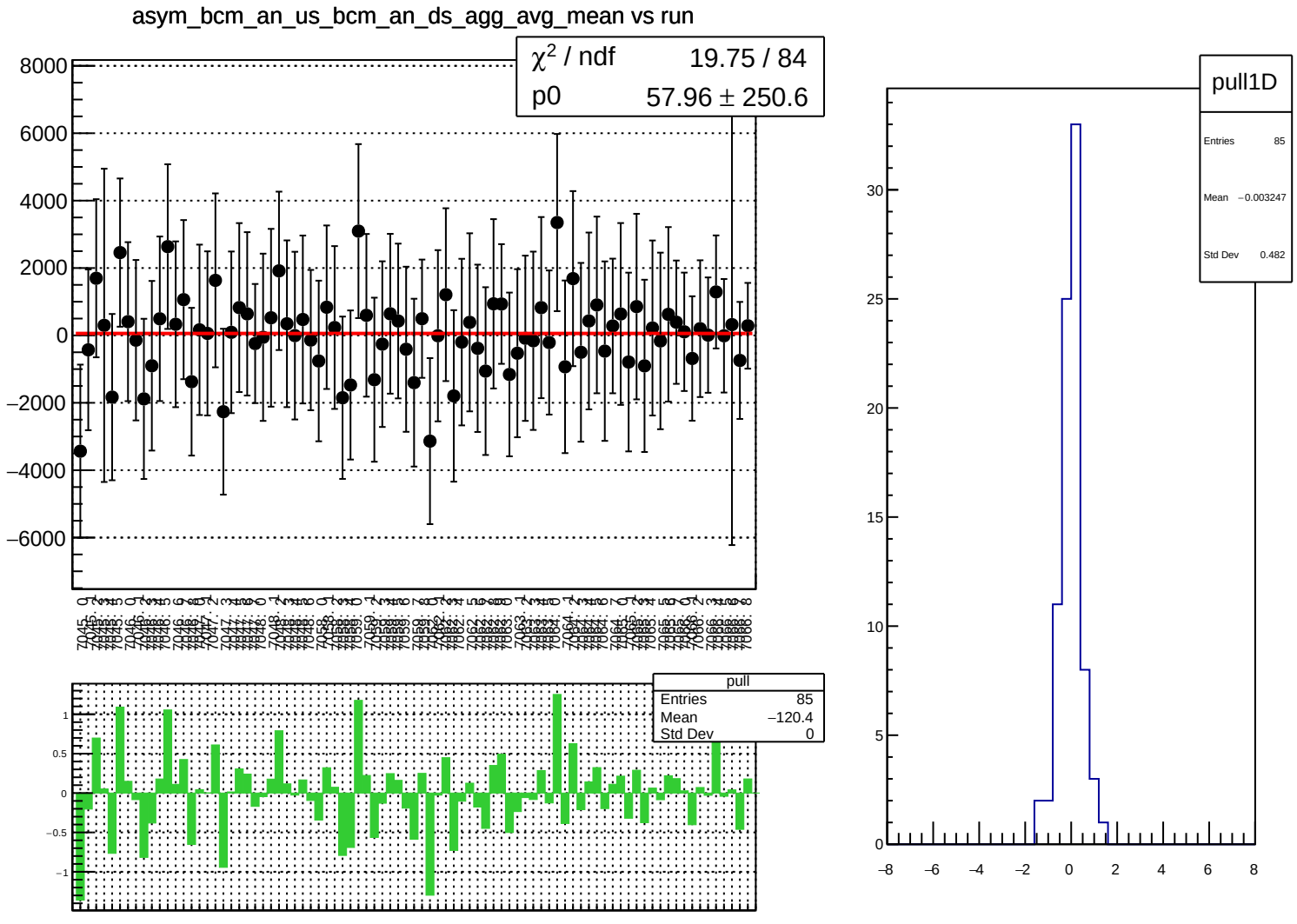

pull1D
Entries 85
Mean −0.009874
Std Dev 4.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

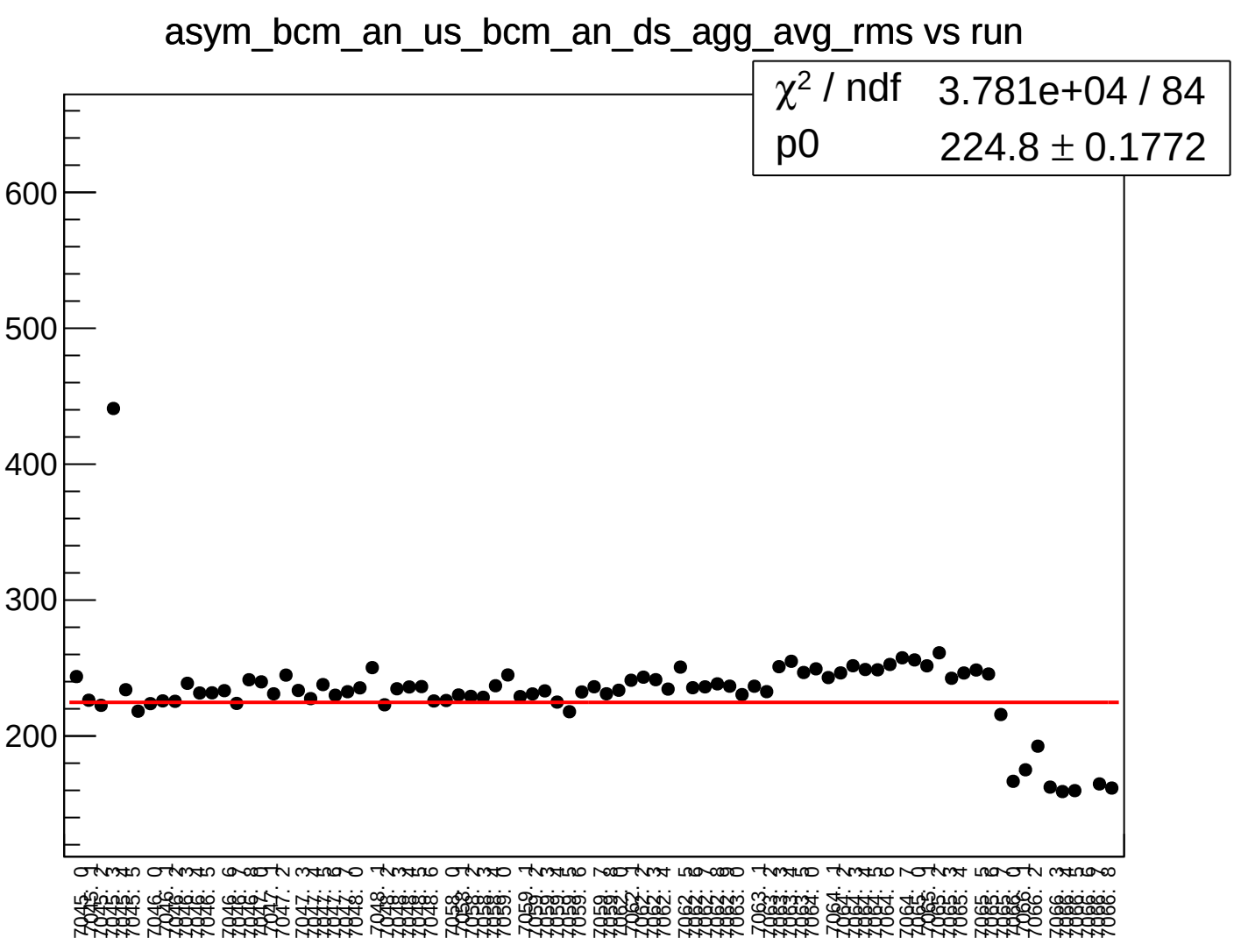

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.068e+04 / 84
p0 0.0001273 ± 9.978e−08
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11

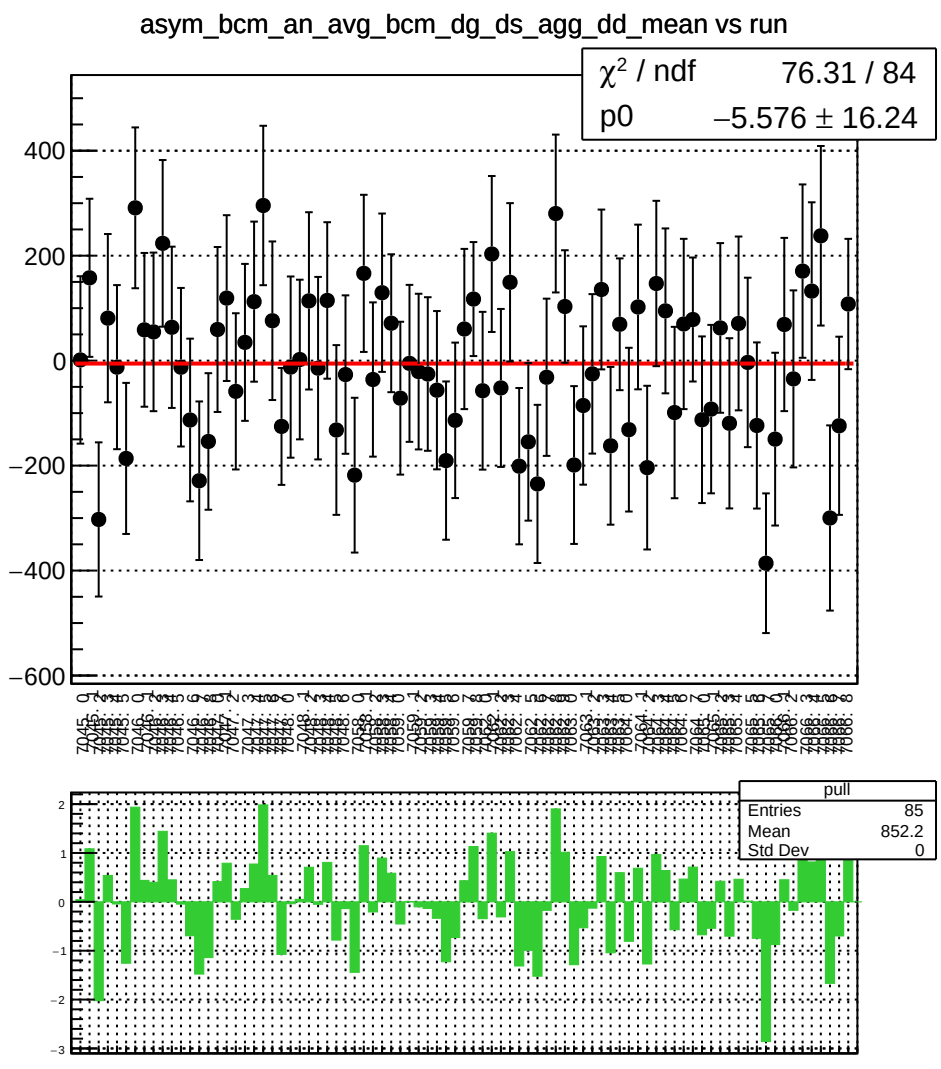

yield_atr2_mean vs run
χ² / ndf 2.236e+05 / 84
p0 0.02996 ± 3.71e−07
0.031
0.0308
0.0306
0.0304
0.0302
0.03
0.0298
0.0296
0.0294
pull
Entries 85
Mean 977.1
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

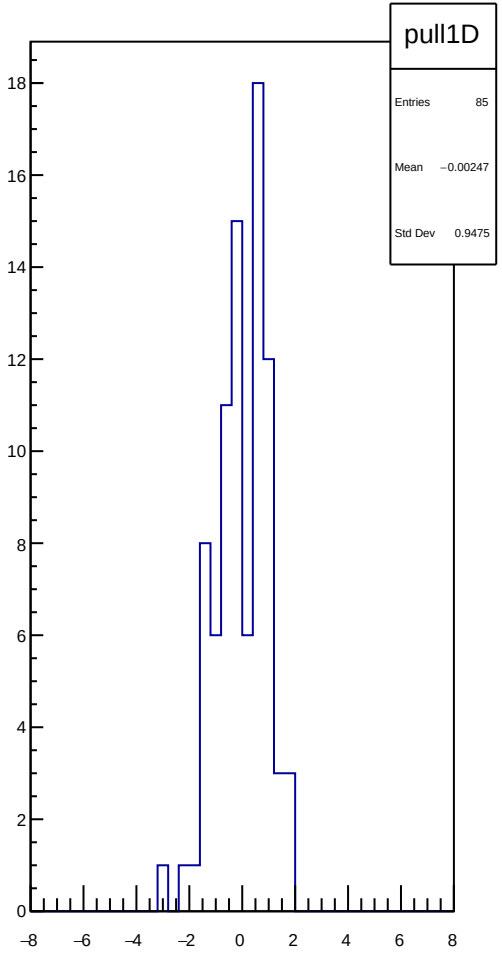

pull1D
Entries 85
Mean −2.31
Std Dev 4.933
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

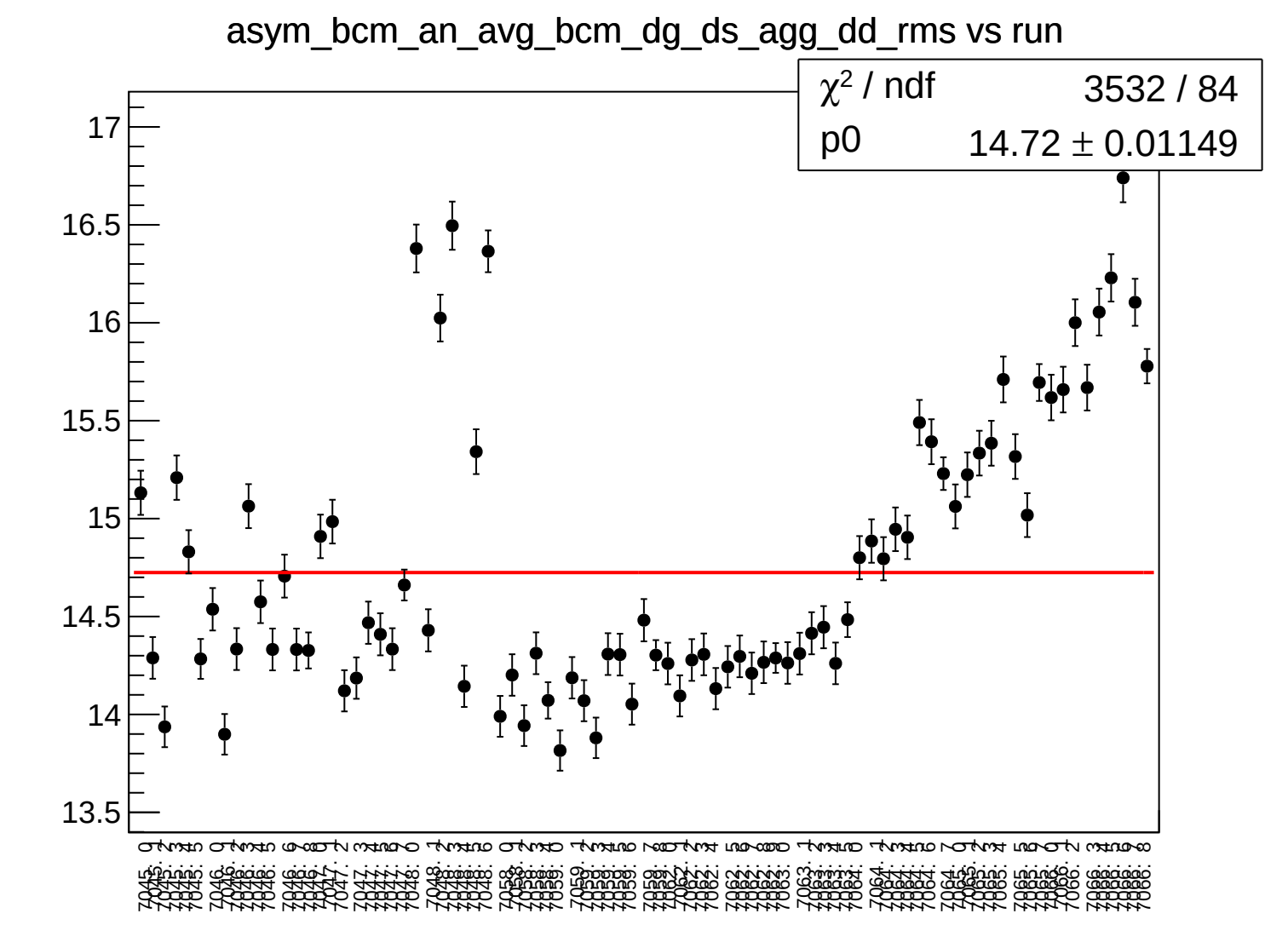

yield_atr2_rms vs run
χ² / ndf 1.539e+05 / 84
p0 0.0003206 ± 2.624e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

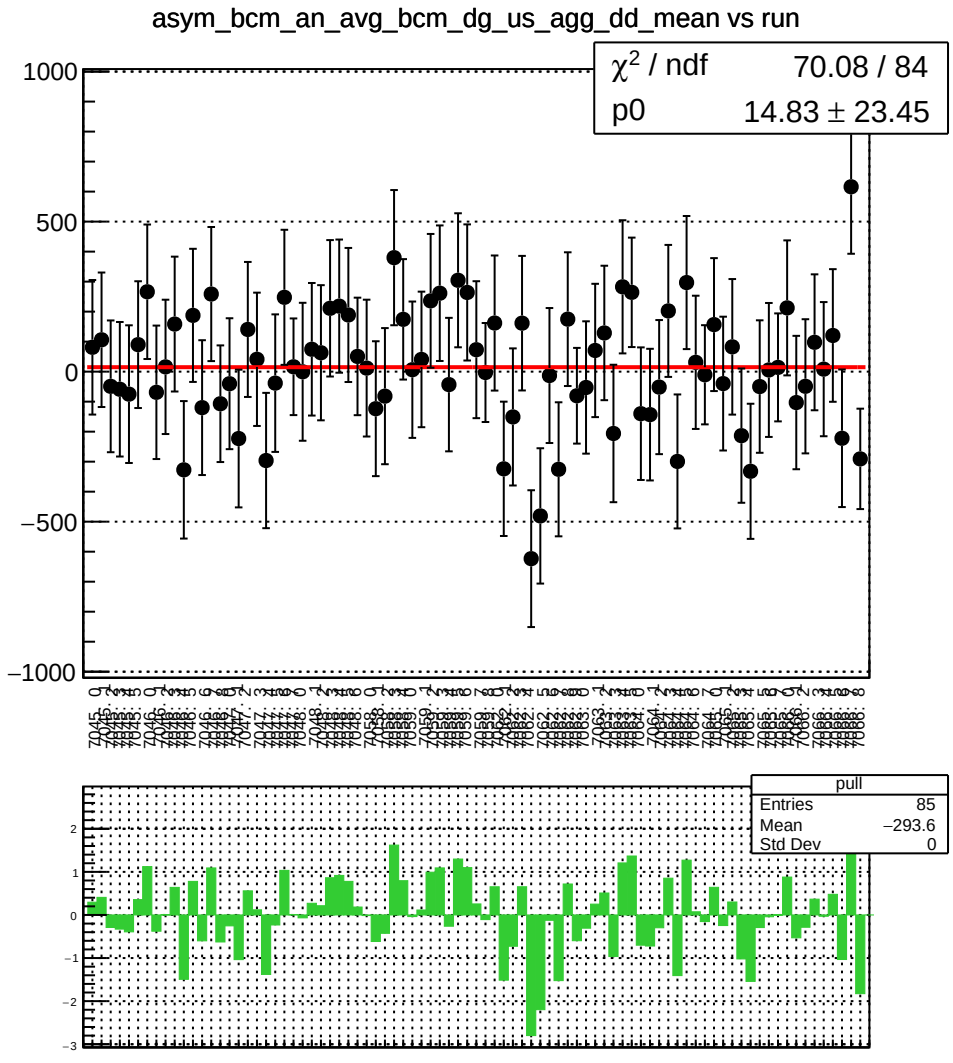

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.75 / 84
p0 57.96 ± 250.6
pull
Entries 85
Mean −120.4
Std Dev 0
pull1D
Entries 85
Mean −0.003247
Std Dev 0.482

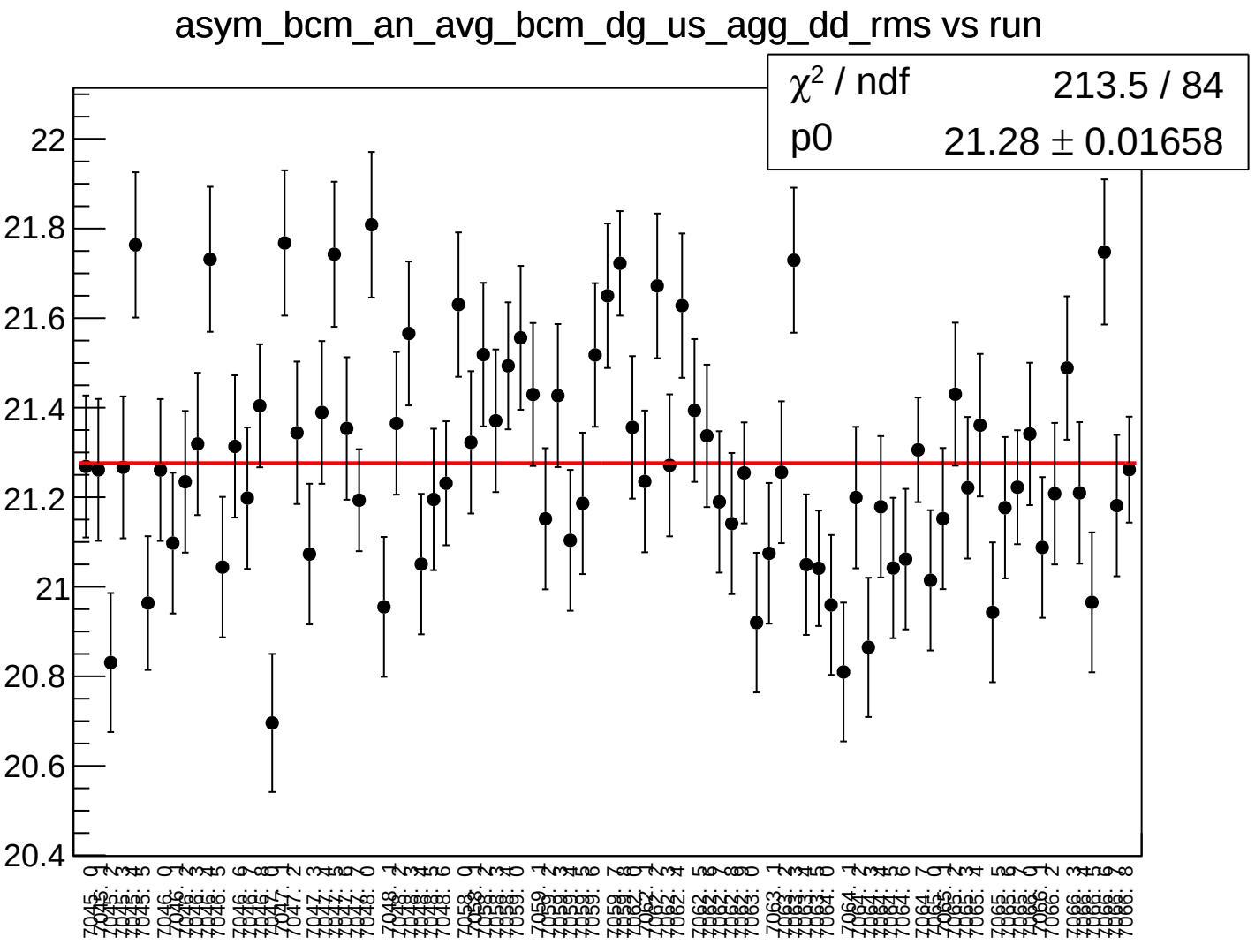

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.781e+04 / 84
p0 224.8 ± 0.1772
600
500
400
300
200

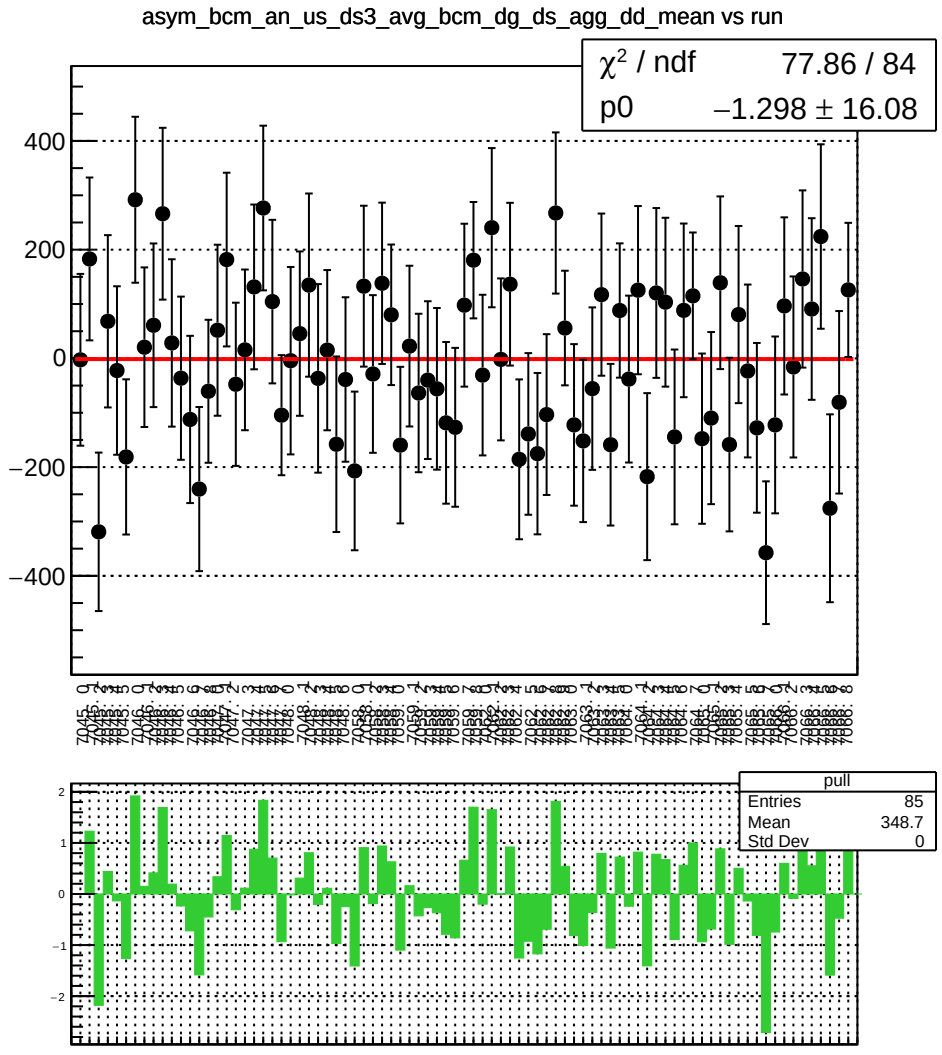

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.31 / 84
p0 −5.576 ± 16.24
pull
Entries 85
Mean 852.2
Std Dev 0

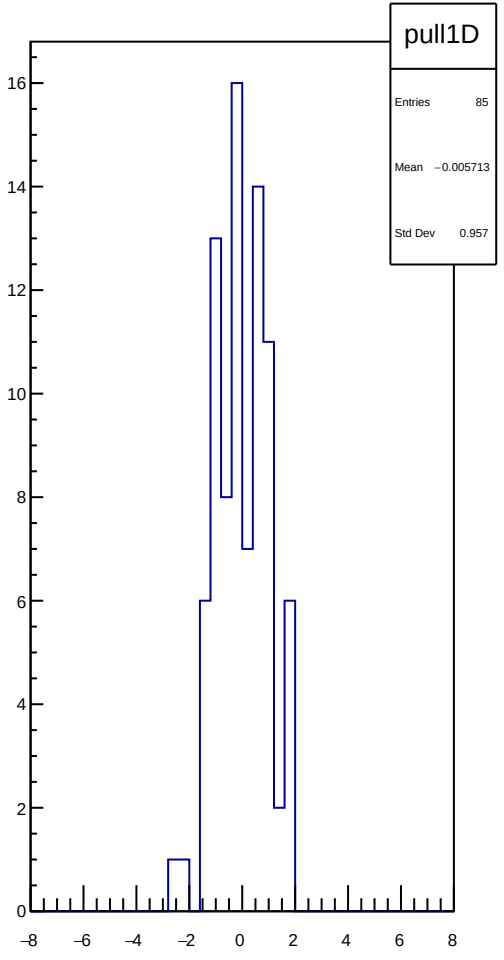

pull1D
Entries 85
Mean −0.00247
Std Dev 0.9475

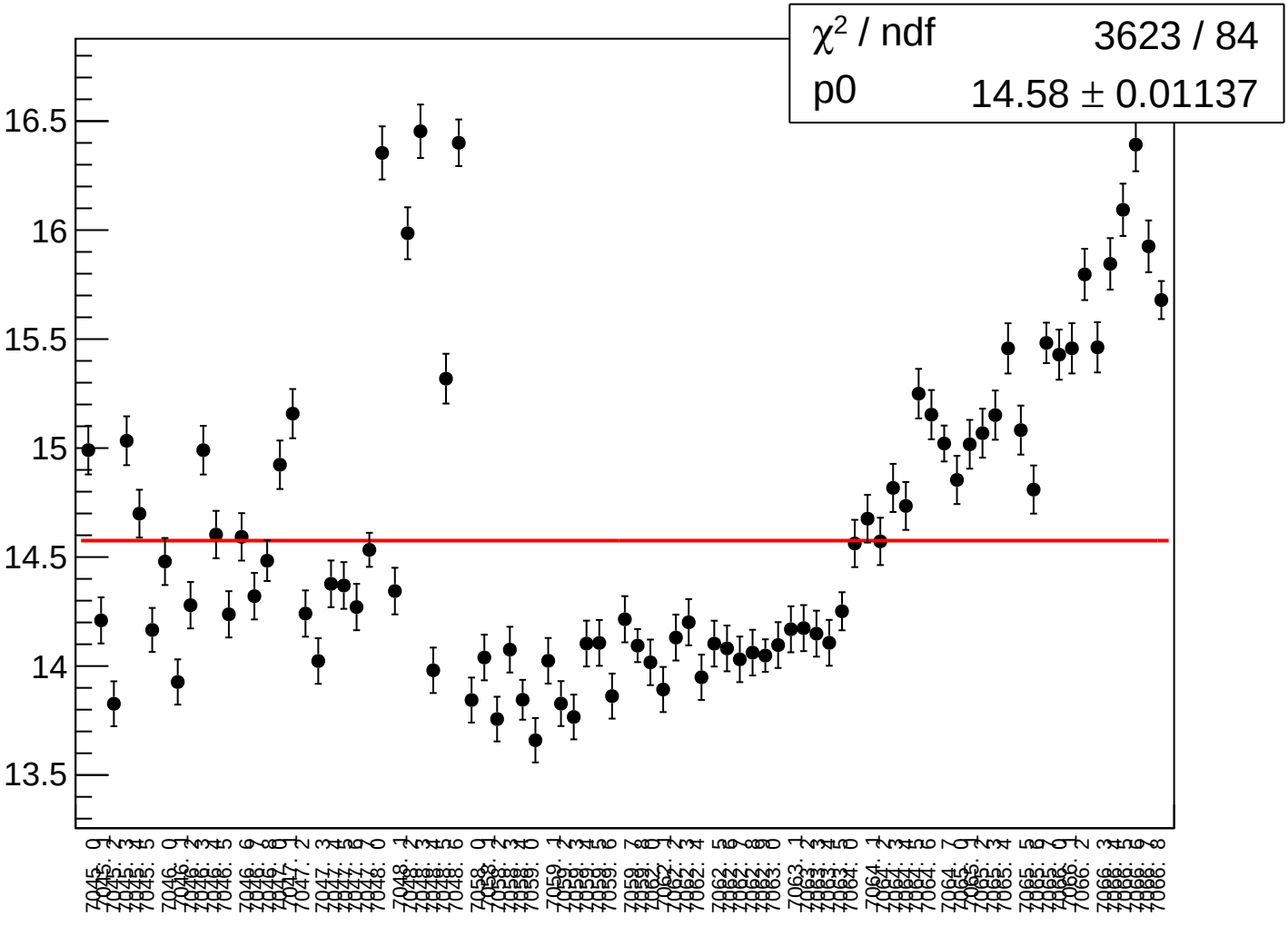

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3532 / 84
p0 14.72 ± 0.01149
17
16.5
16
15.5
15
14.5
14
13.5

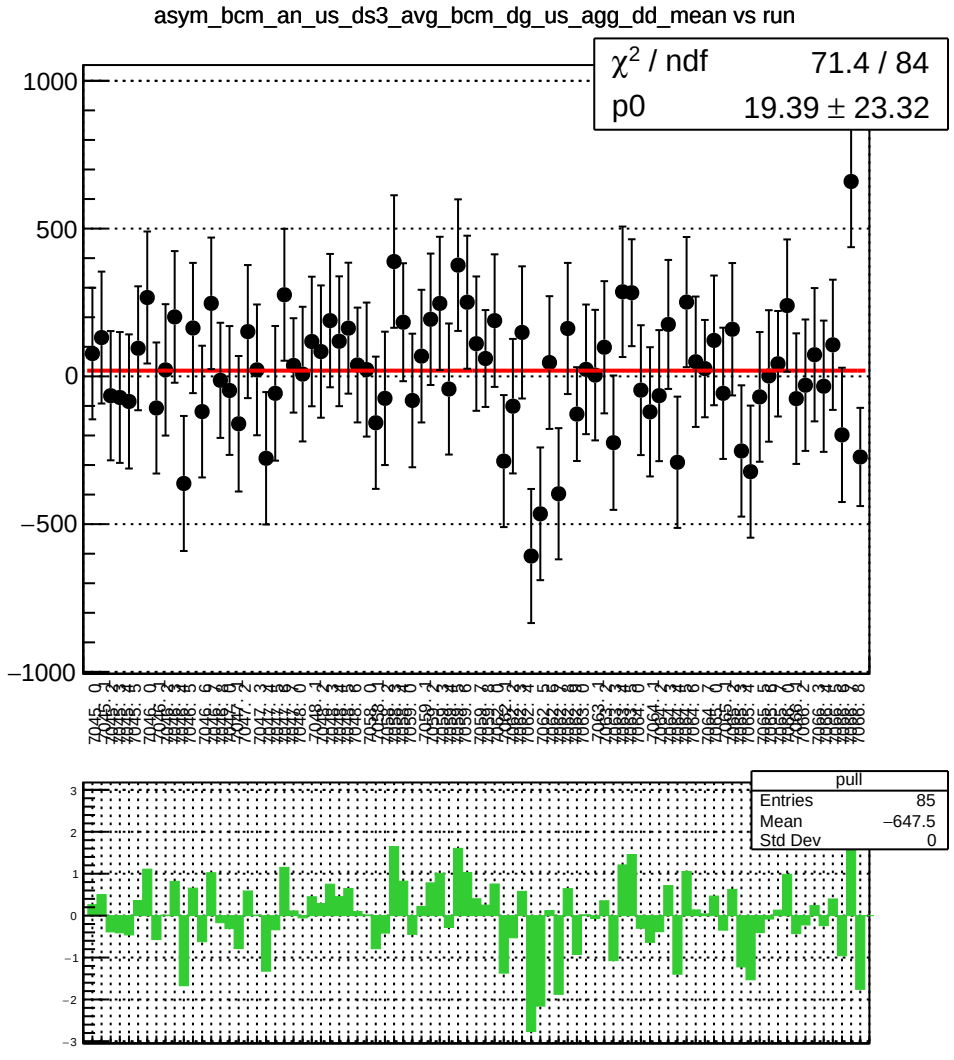

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.08 / 84
p0 14.83 ± 23.45
pull
Entries 85
Mean −293.6
Std Dev 0
pull1D
Entries 85
Mean 0.004846
Std Dev 0.908

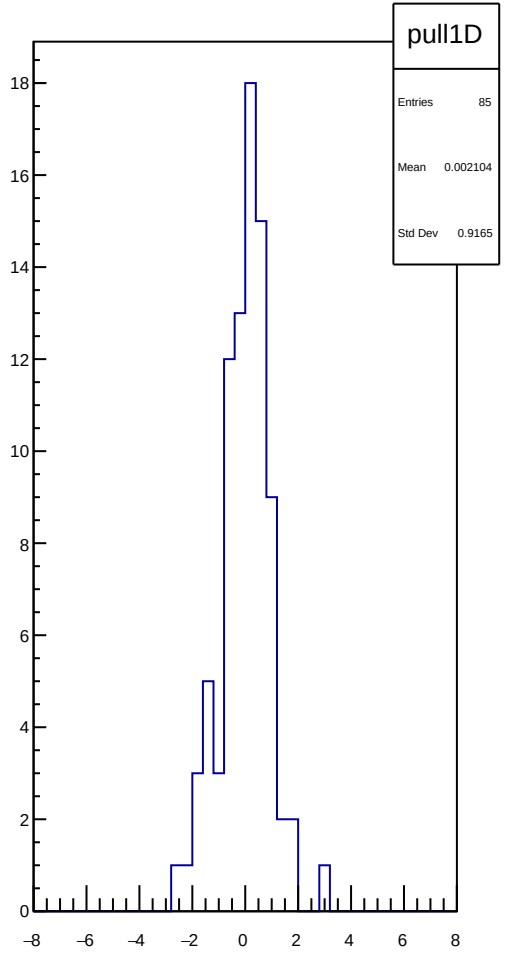

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 213.5 / 84
p0 21.28 ± 0.01658
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

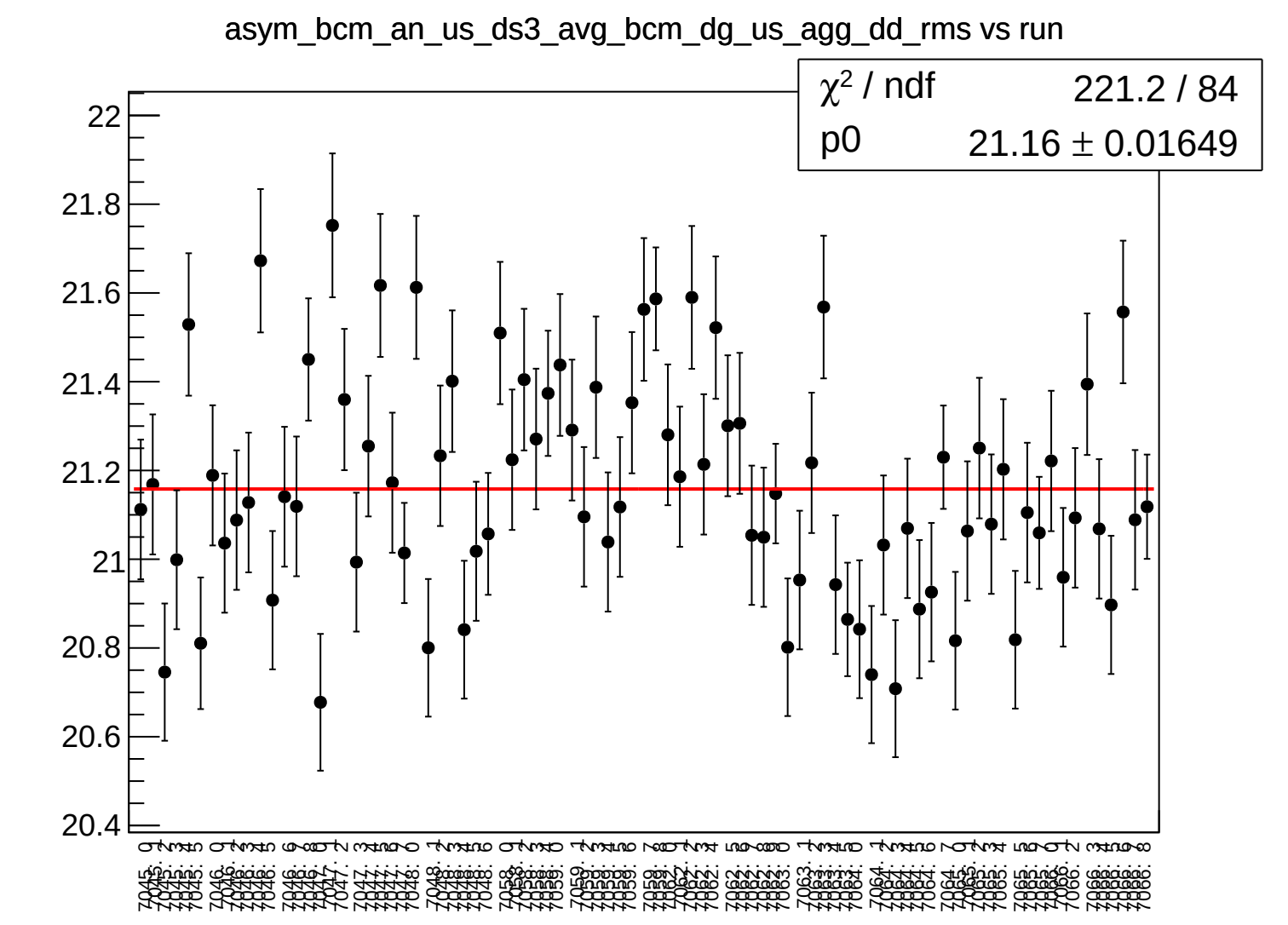

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.86 / 84
p0 −1.298 ± 16.08
400
200
0
−200
−400
pull
Entries 85
Mean 348.7
Std Dev 0
2
1
0
−1
−2

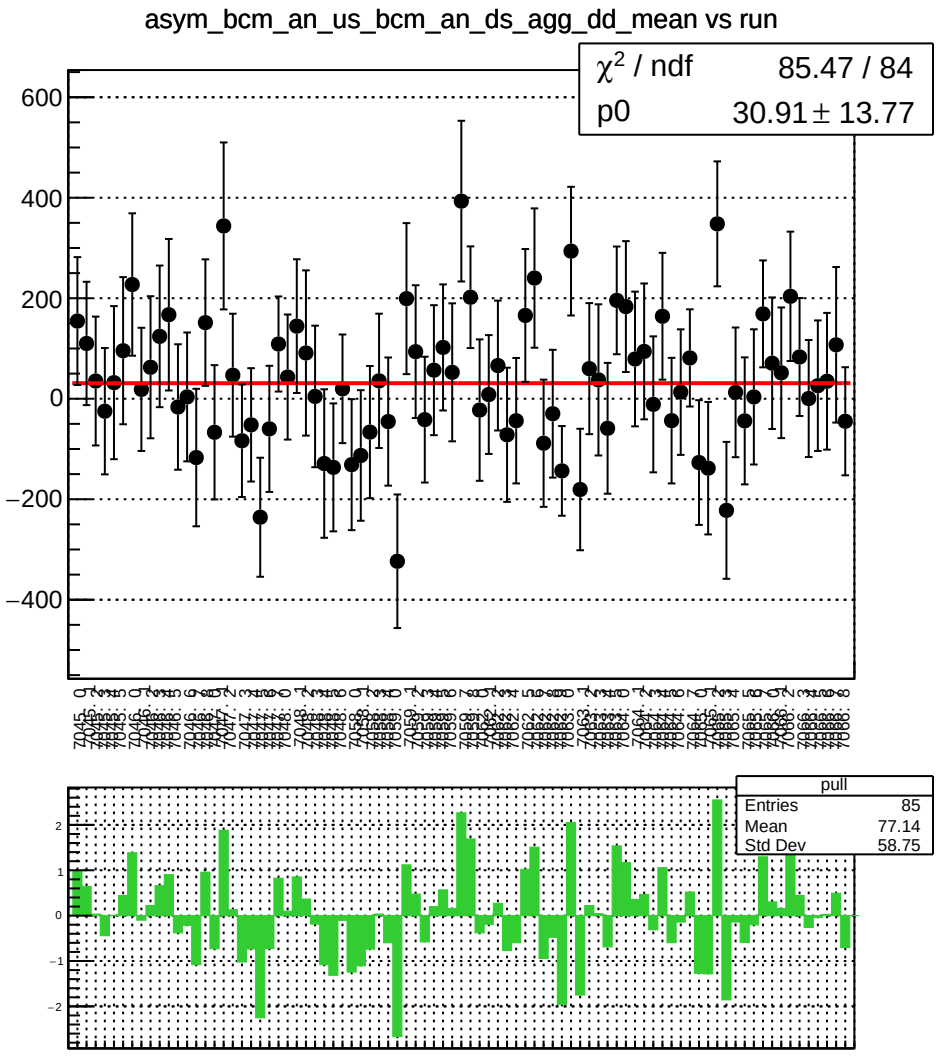

pull1D
Entries 85
Mean −0.005713
Std Dev 0.957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

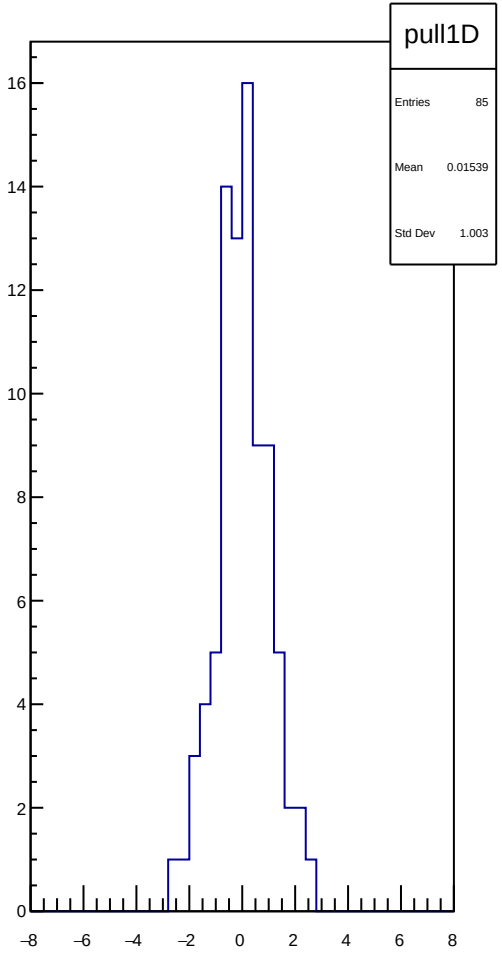

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3623 / 84
p0 14.58 ± 0.01137
16.5
16
15.5
15
14.5
14
13.5

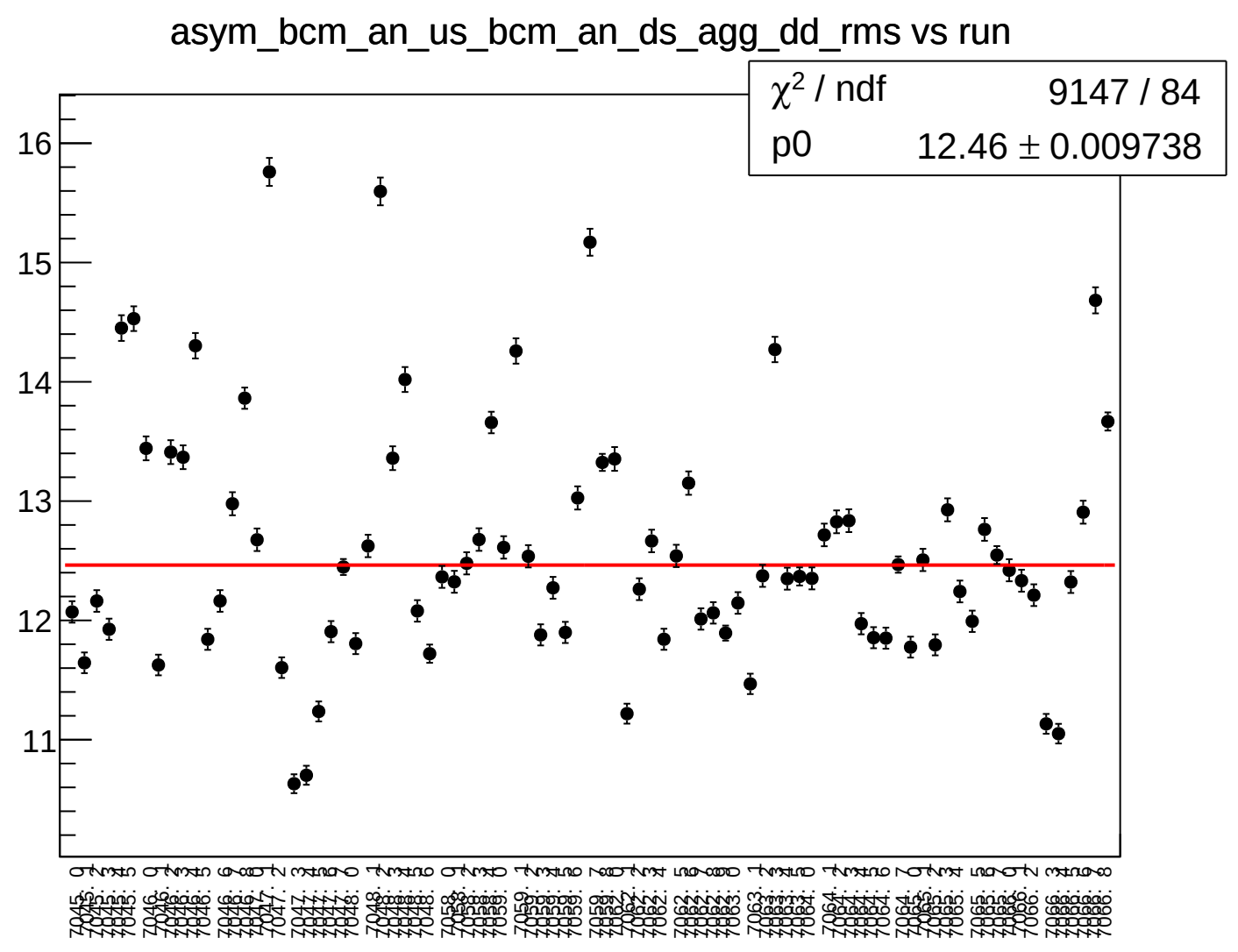

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 71.4 / 84
p0 19.39 ± 23.32
1000
500
0
−500
−1000
pull
Entries 85
Mean −647.5
Std Dev 0
3
2
1
0
−1
−2
−3

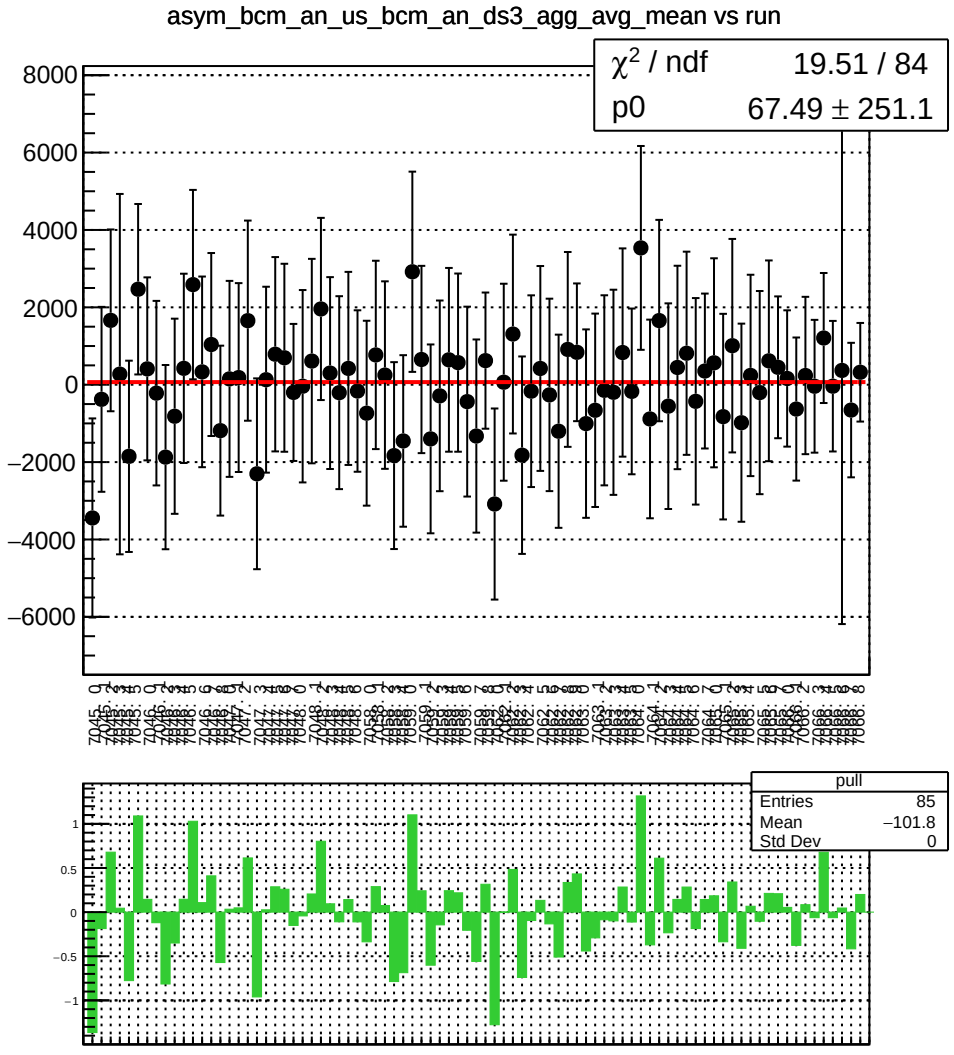

pull1D
Entries 85
Mean 0.002104
Std Dev 0.9165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

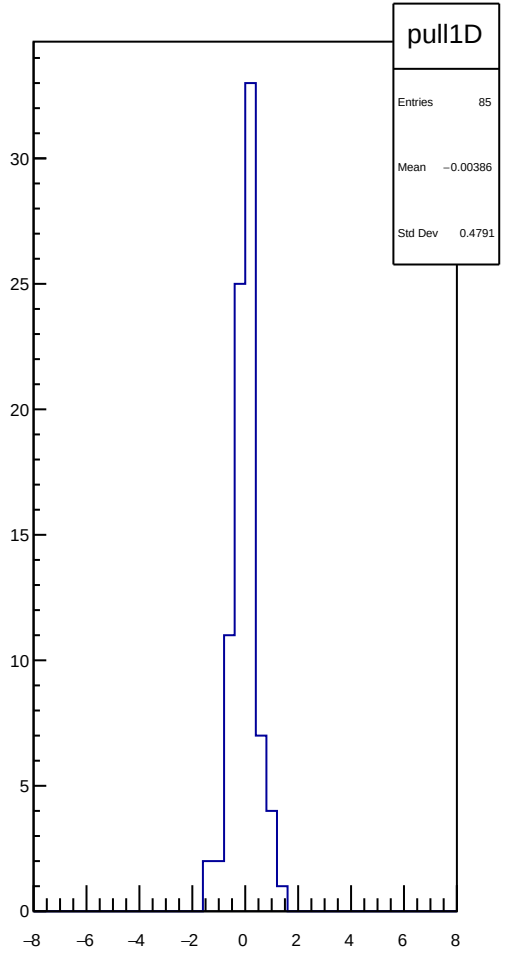

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 221.2 / 84
p0 21.16 ± 0.01649
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

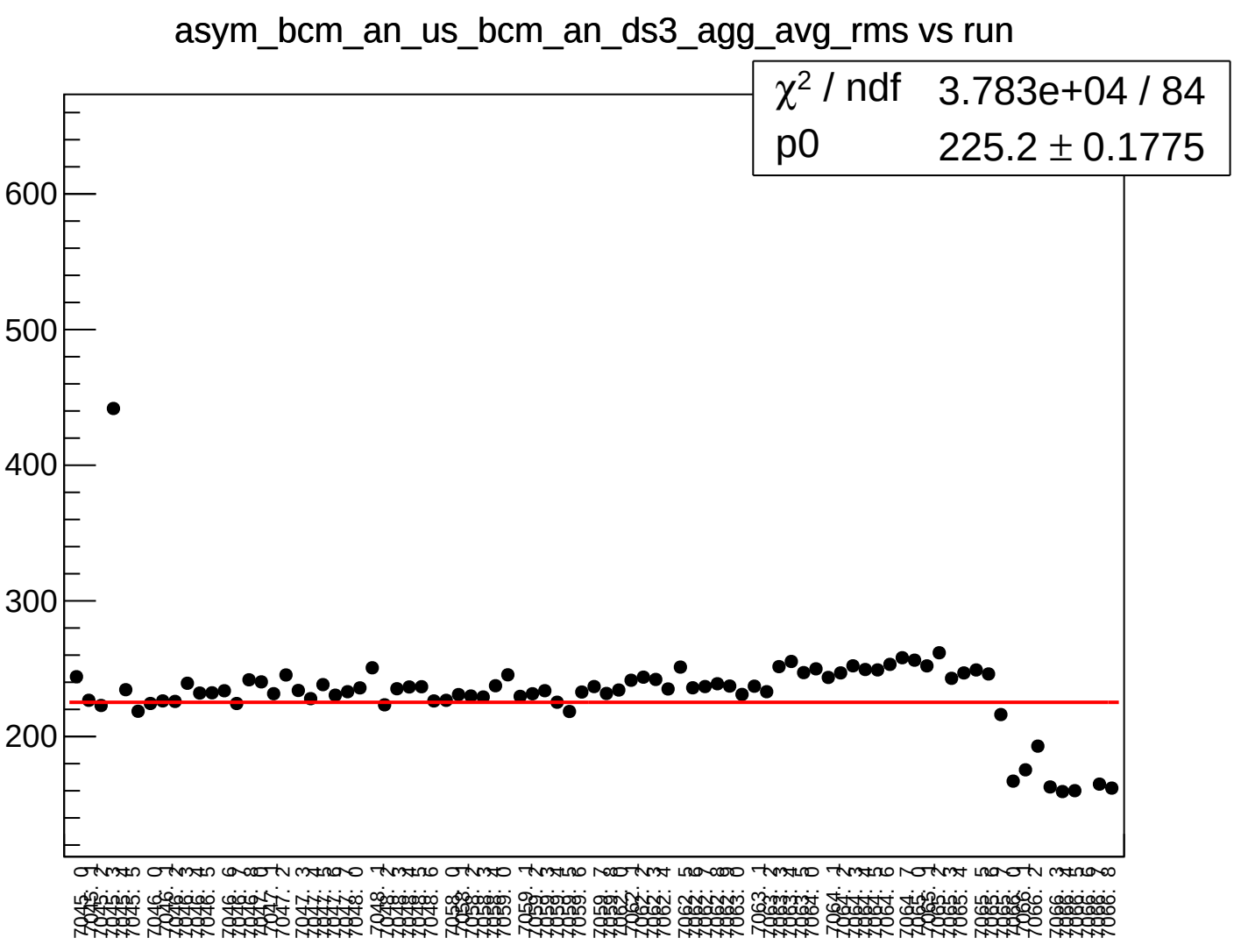

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.47 / 84
p0 30.91 ± 13.77
pull
Entries 85
Mean 77.14
Std Dev 58.75

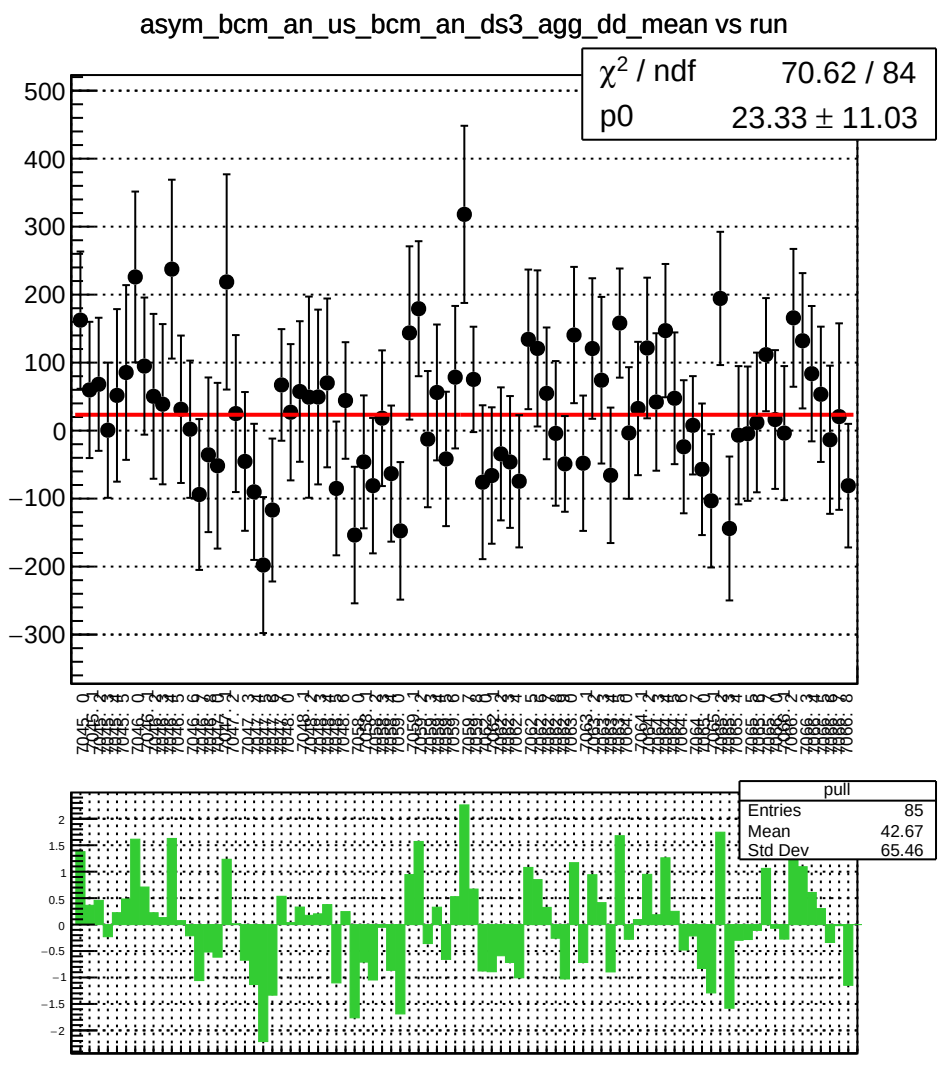

pull1D
Entries 85
Mean 0.01539
Std Dev 1.003

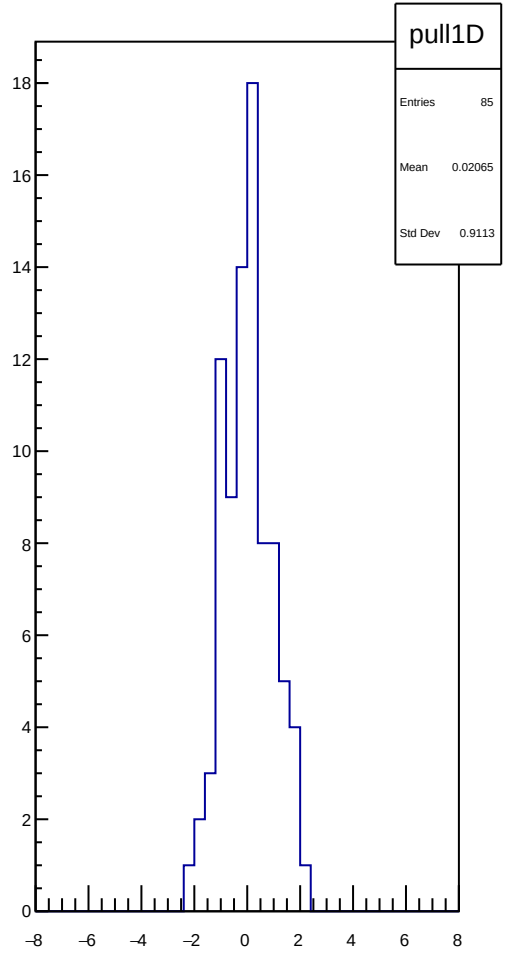

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9147 / 84
p0 12.46 ± 0.009738
16
15
14
13
12
11

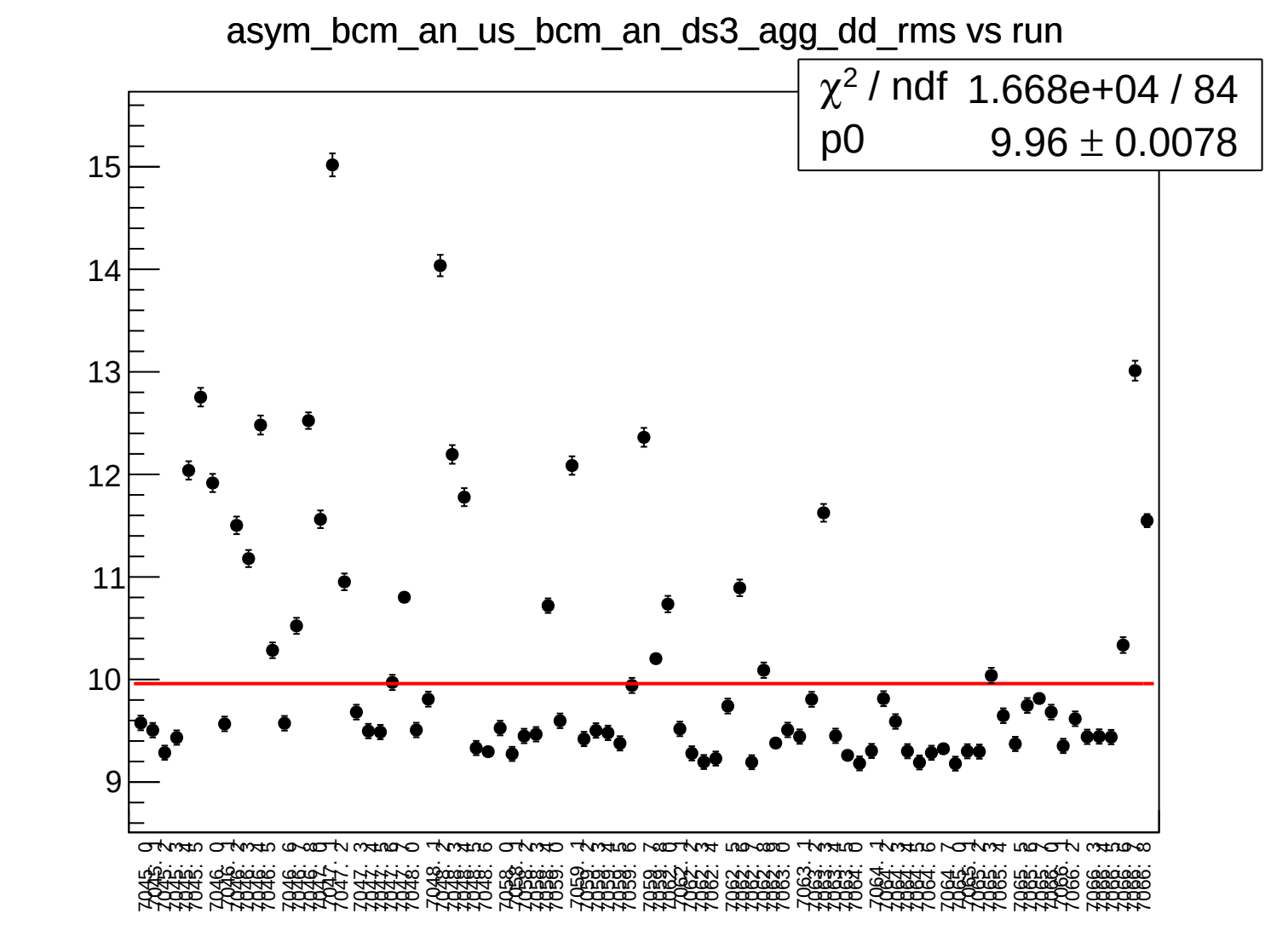

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 19.51 / 84
p0 67.49 ± 251.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −101.8
Std Dev 0
1
0.5
0
−0.5
−1

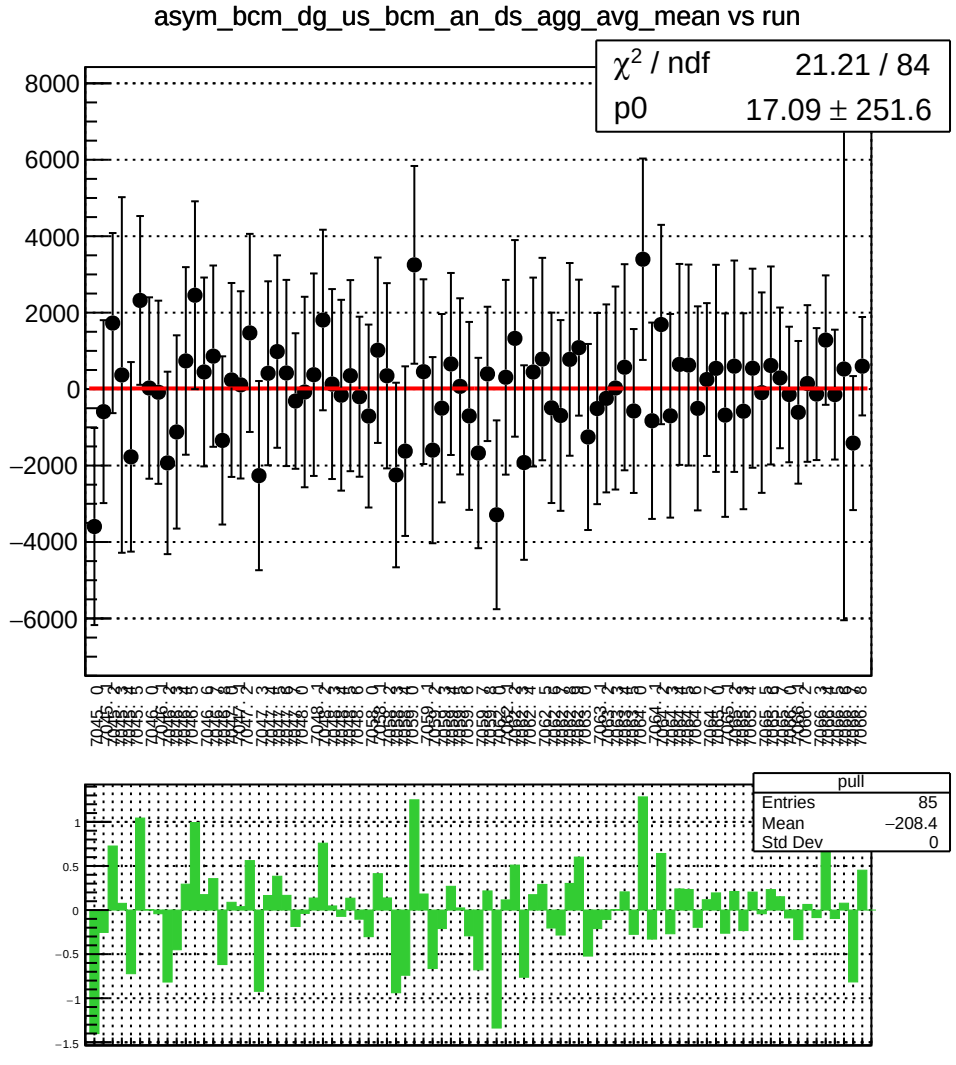

pull1D
Entries 85
Mean −0.00386
Std Dev 0.4791
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

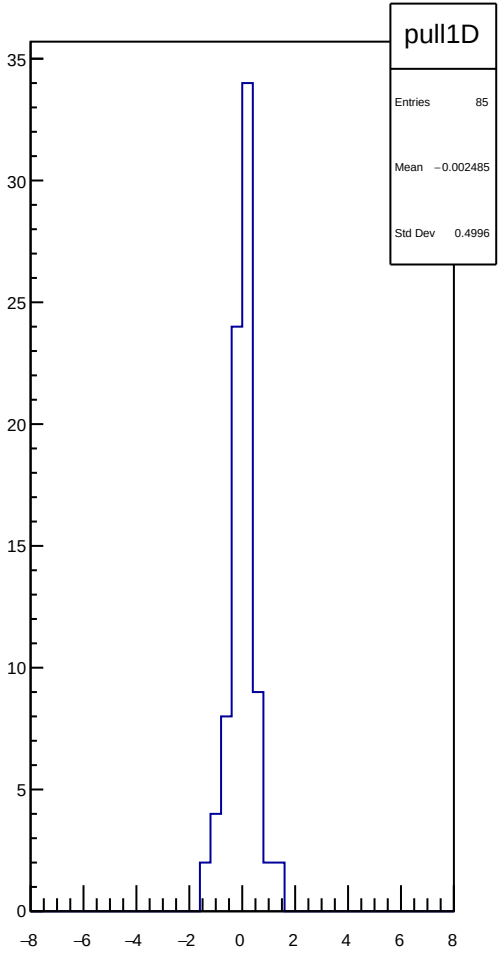

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.783e+04 / 84
p0 225.2 ± 0.1775
600
500
400
300
200

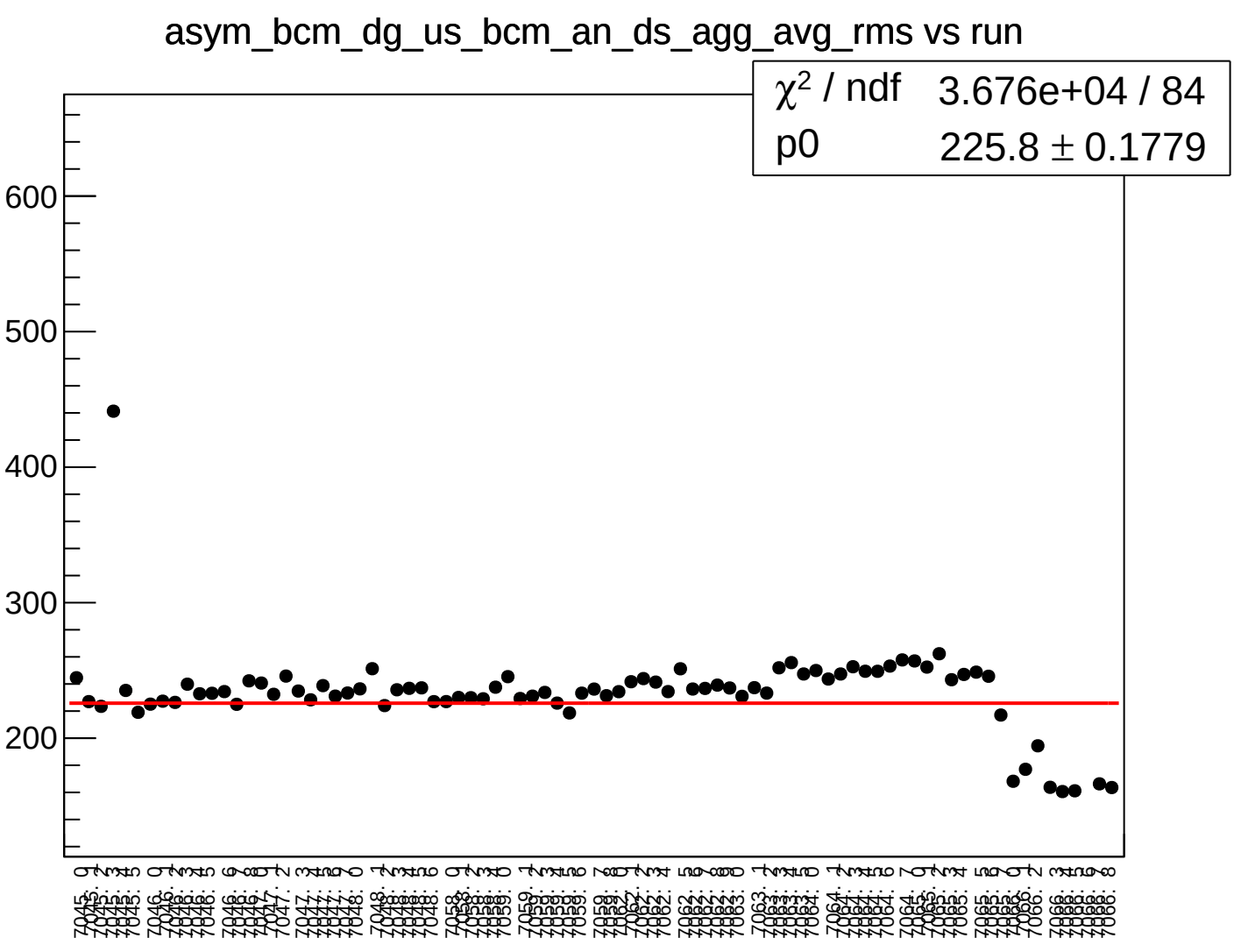

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 70.62 / 84
p0 23.33 ± 11.03
pull
Entries 85
Mean 42.67
Std Dev 65.46

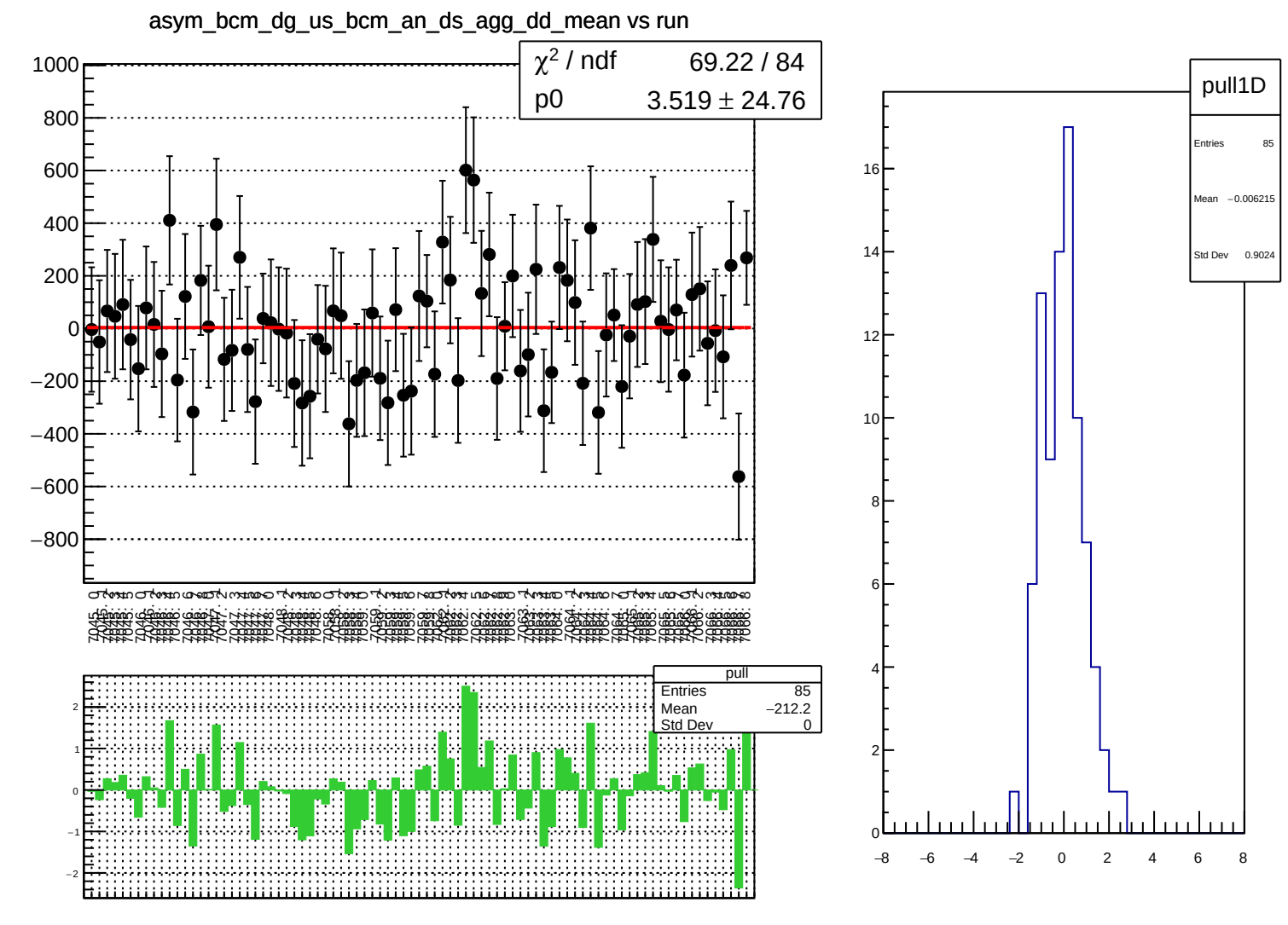

pull1D
Entries 85
Mean 0.02065
Std Dev 0.9113

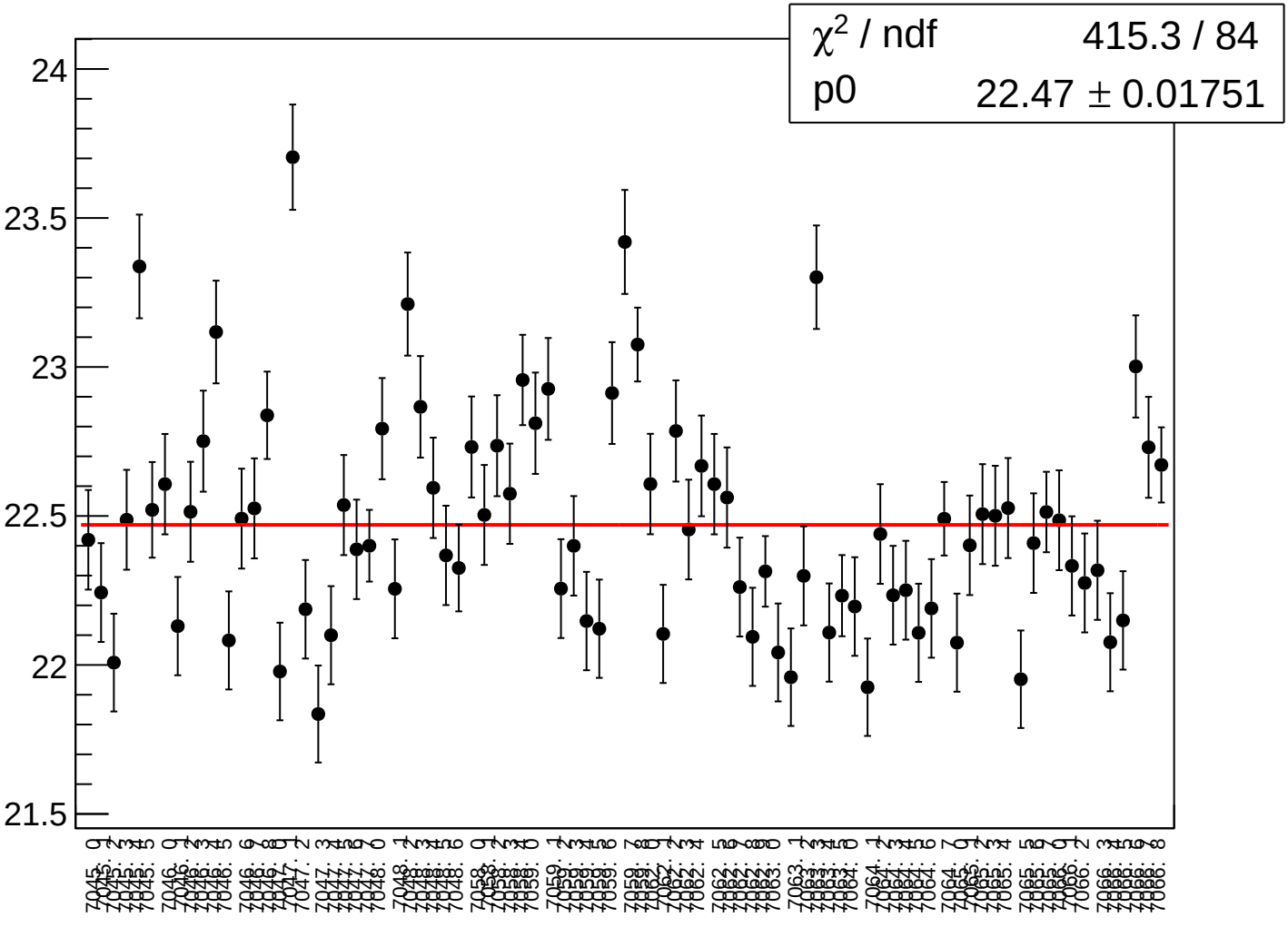

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.668e+04 / 84
p0 9.96 ± 0.0078
15
14
13
12
11
10
9

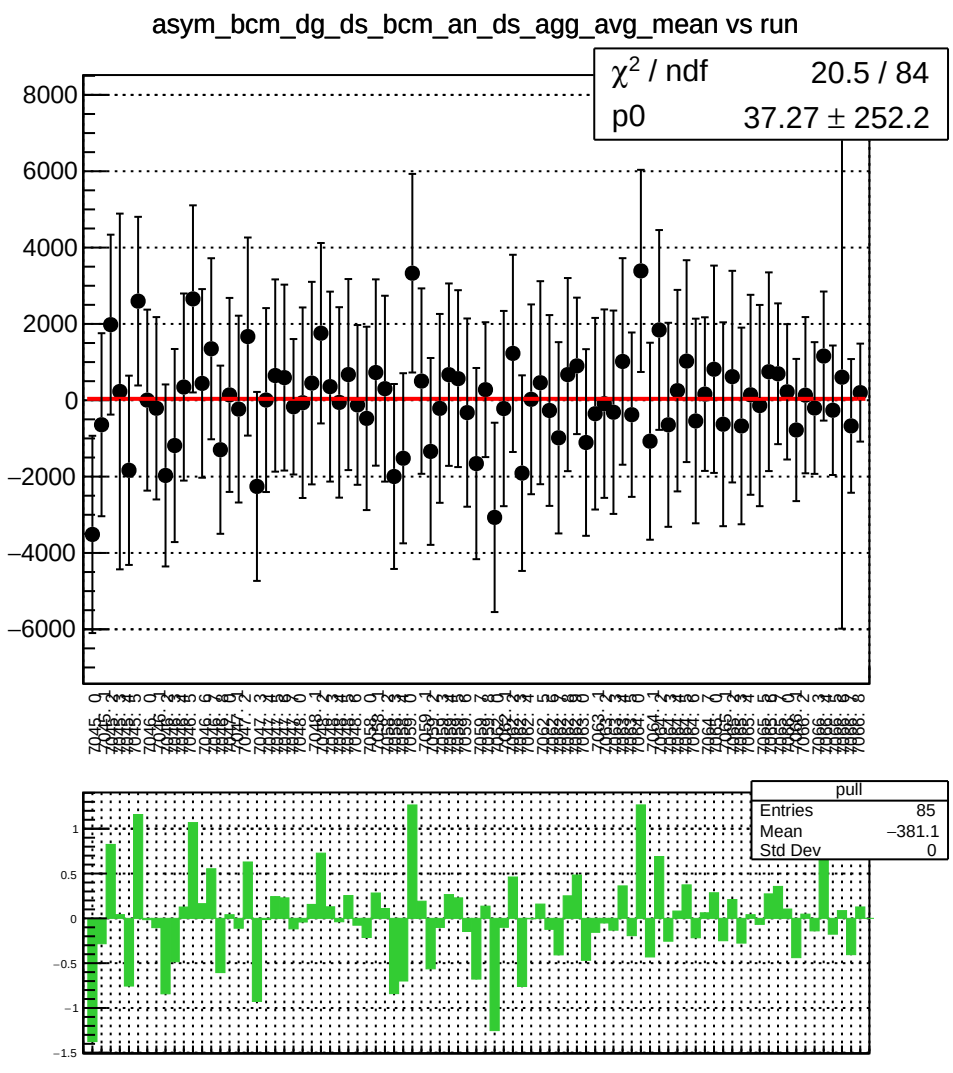

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.21 / 84
p0 17.09 ± 251.6
pull
Entries 85
Mean −208.4
Std Dev 0

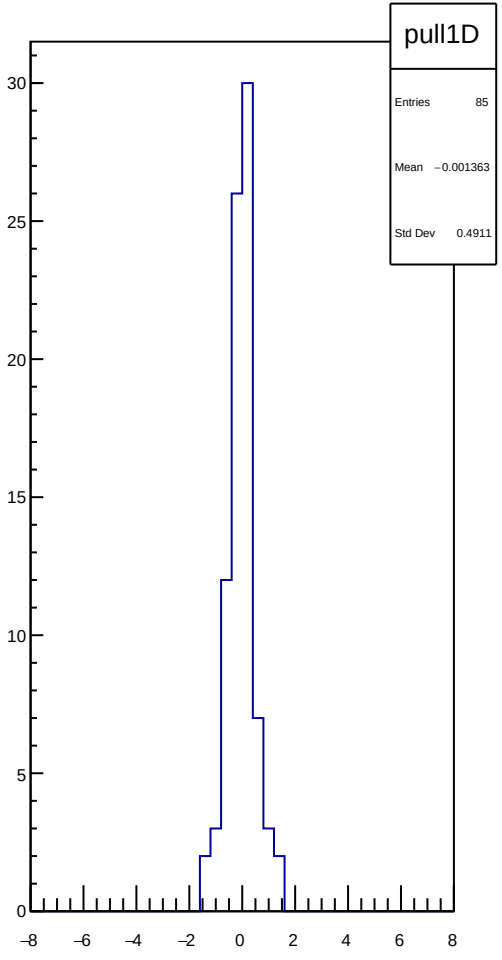

pull1D
Entries 85
Mean −0.002485
Std Dev 0.4996

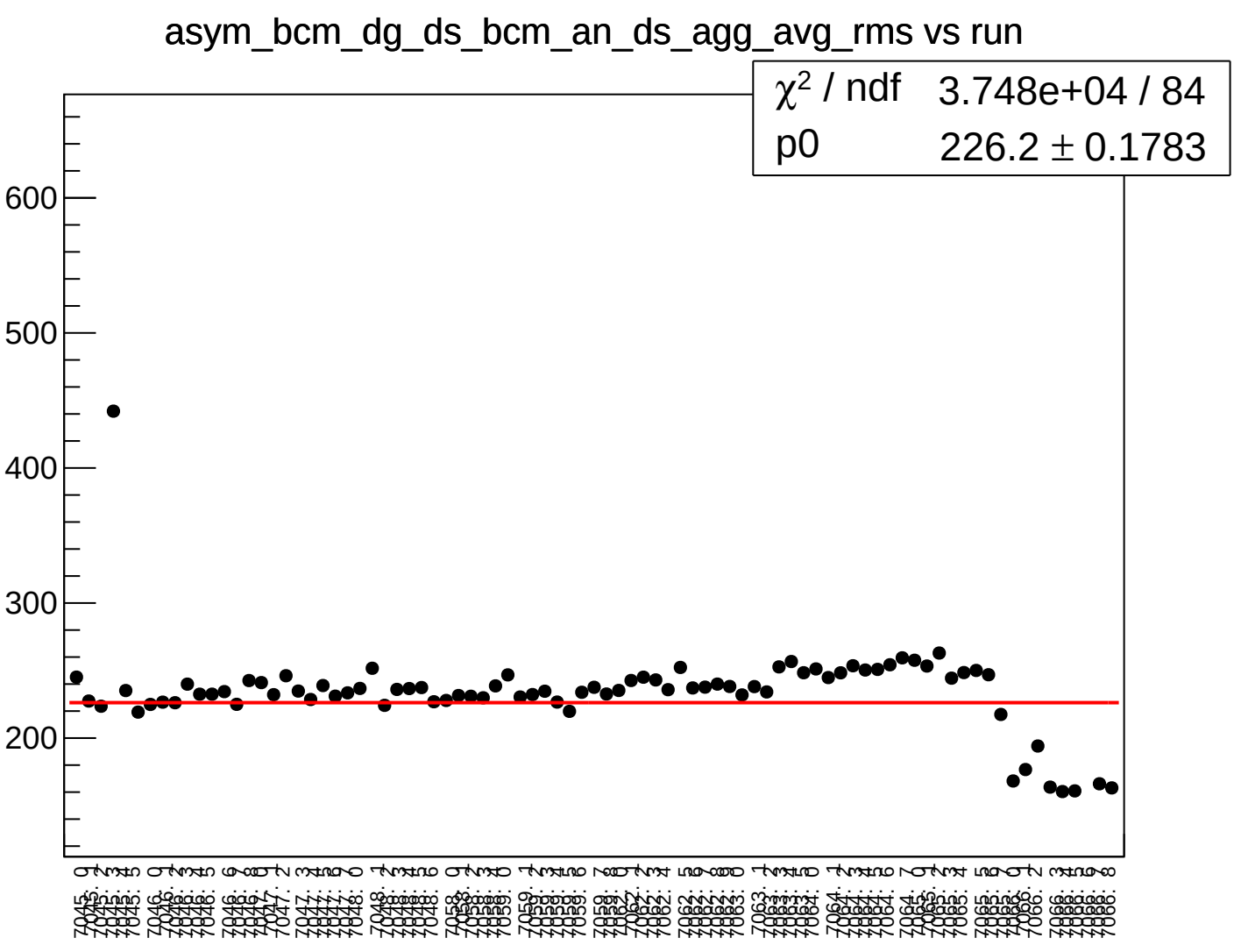

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.676e+04 / 84
p0 225.8 ± 0.1779
600
500
400
300
200

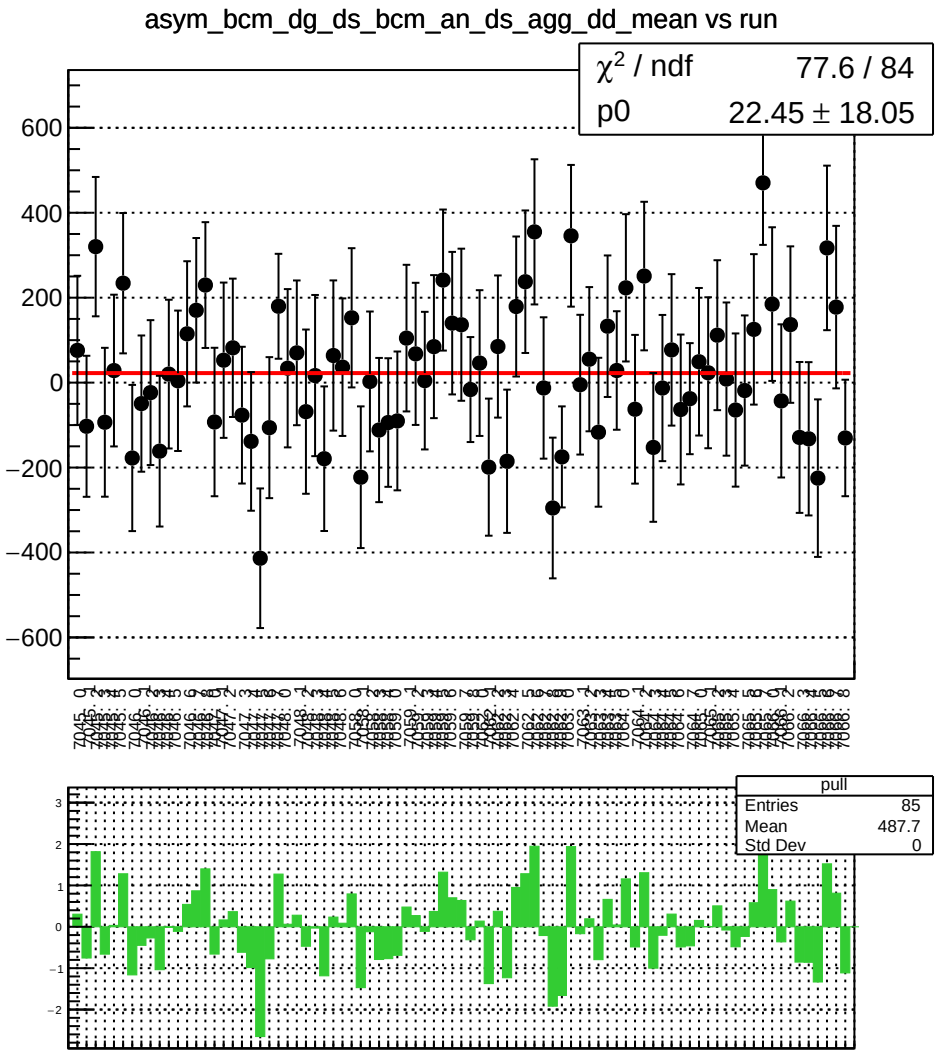

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.22 / 84
p0 3.519 ± 24.76
pull
Entries 85
Mean −212.2
Std Dev 0
pull1D
Entries 85
Mean −0.006215
Std Dev 0.9024

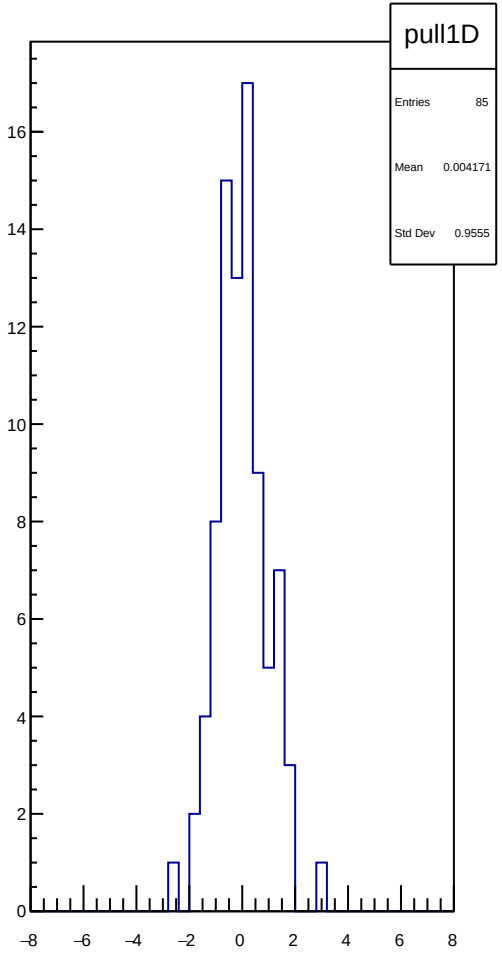

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 415.3 / 84
p0 22.47 ± 0.01751
24
23.5
23
22.5
22
21.5

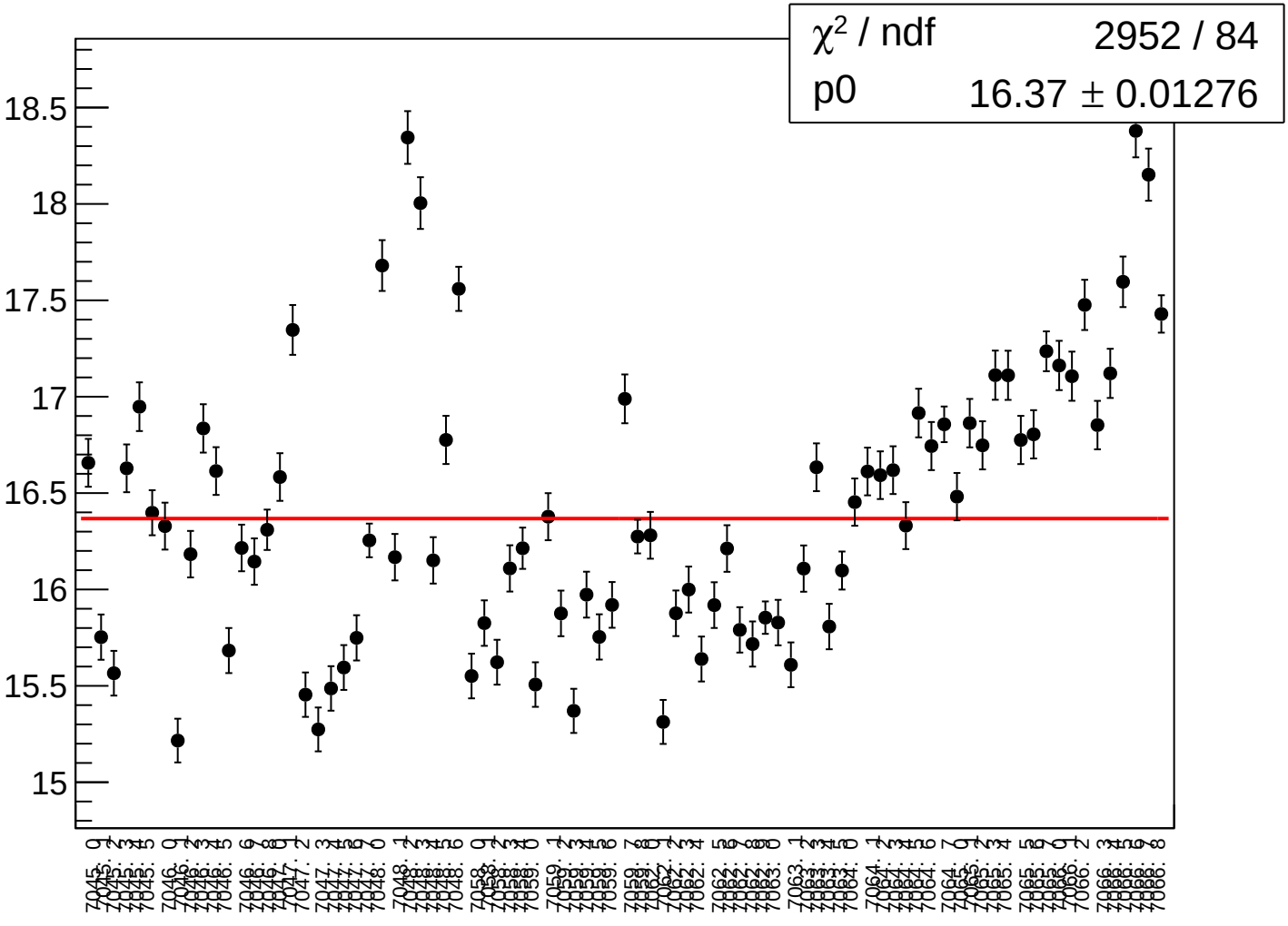

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.5 / 84
p0 37.27 ± 252.2
pull
Entries 85
Mean −381.1
Std Dev 0

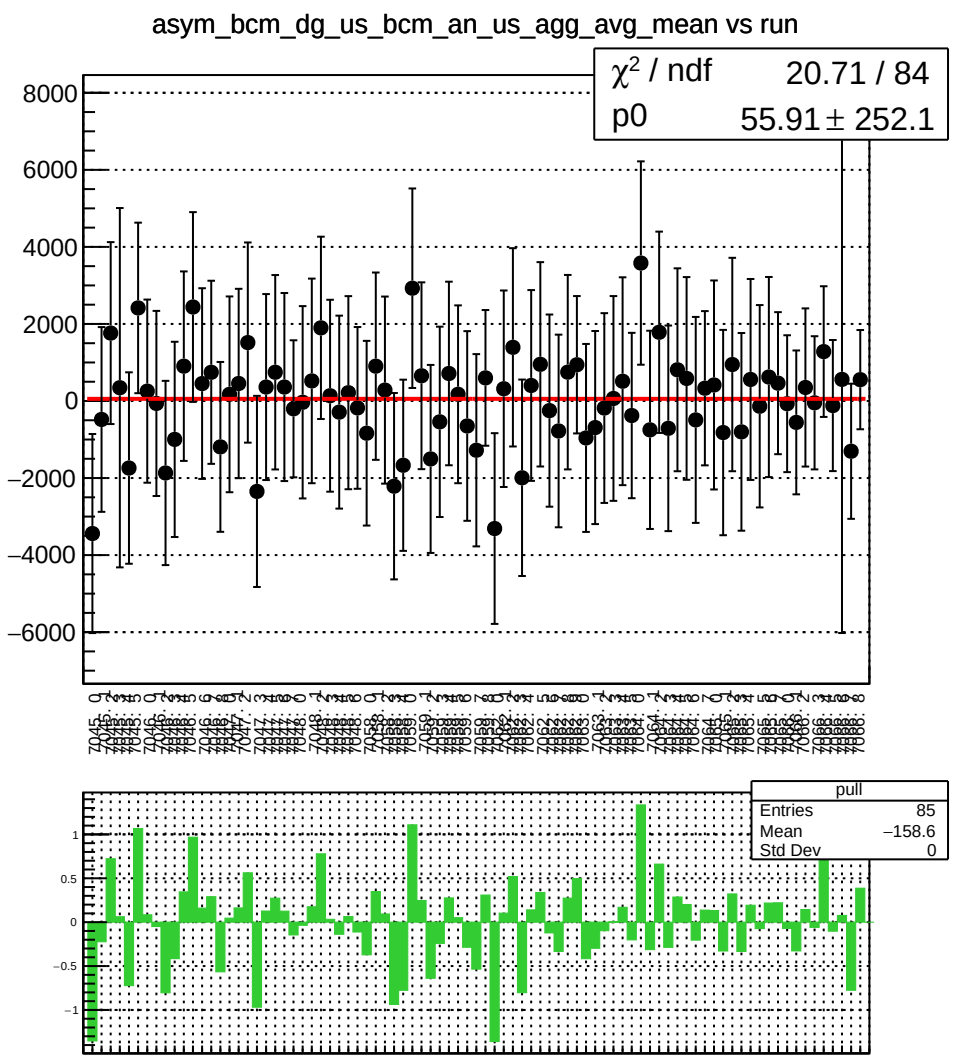

pull1D
Entries 85
Mean −0.001363
Std Dev 0.4911

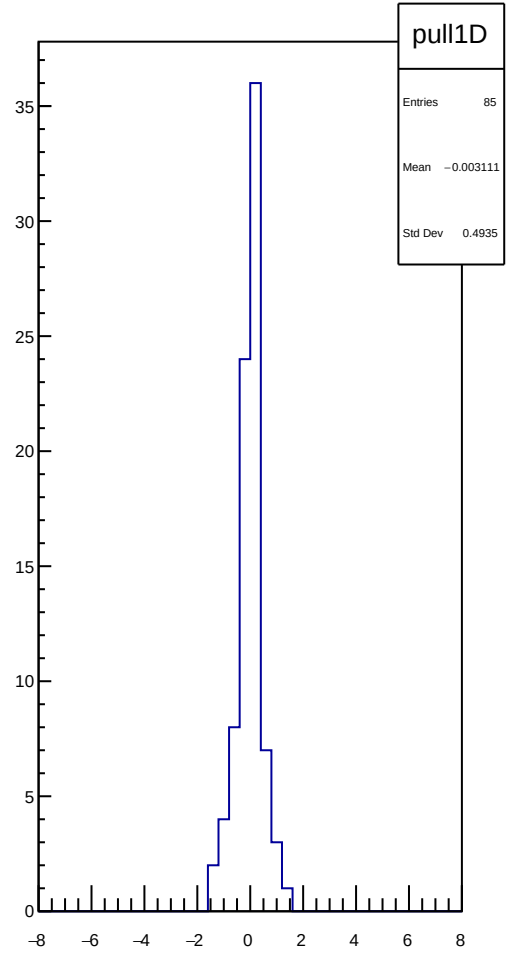

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.748e+04 / 84
p0 226.2 ± 0.1783
600
500
400
300
200

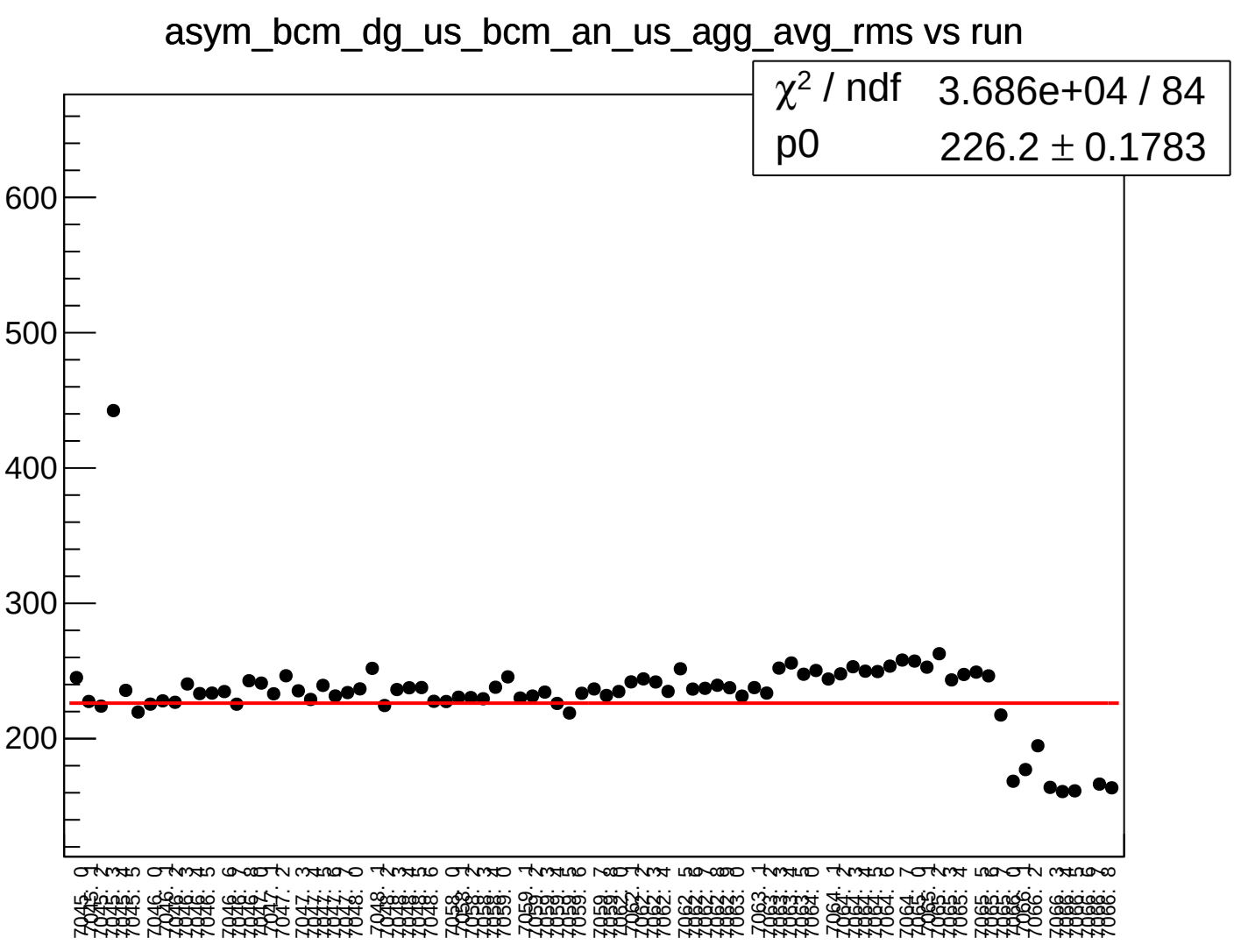

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.6 / 84
p0 22.45 ± 18.05
pull
Entries 85
Mean 487.7
Std Dev 0

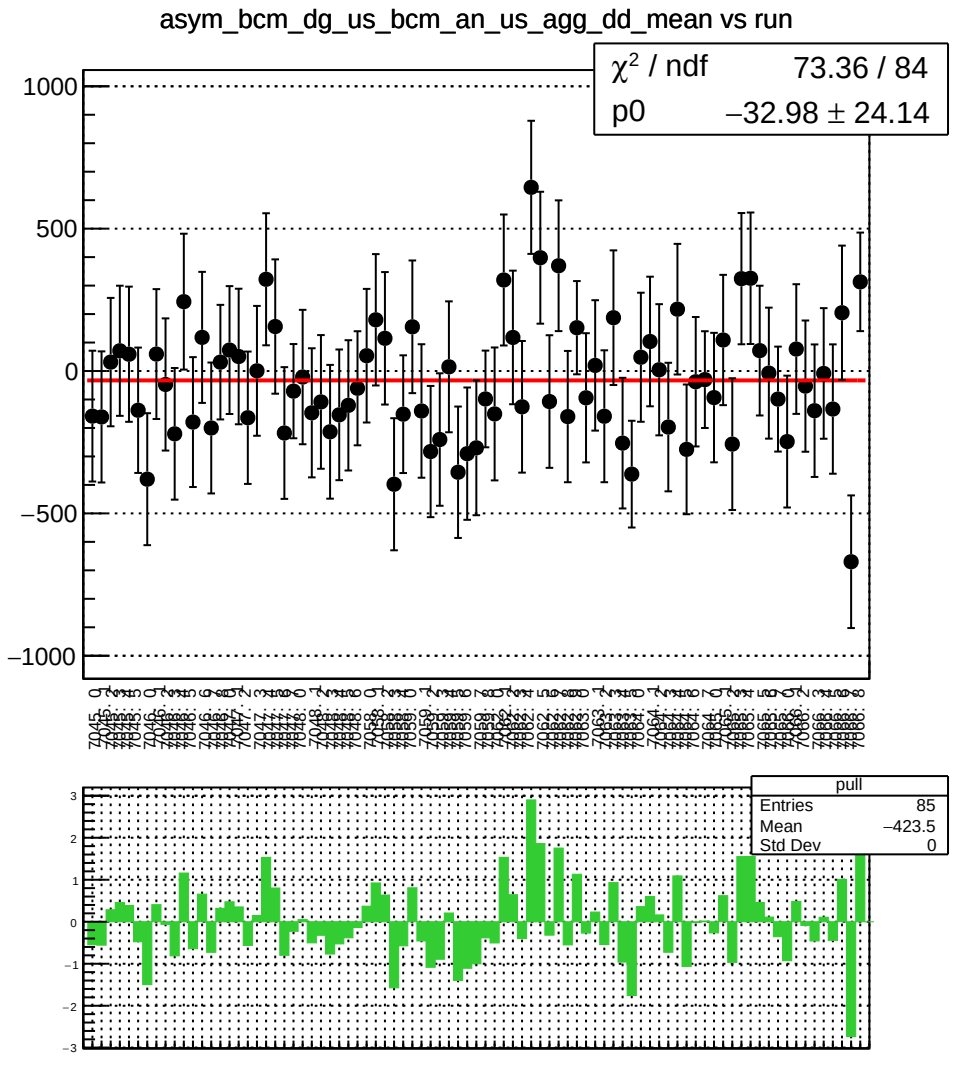

pull1D
Entries 85
Mean 0.004171
Std Dev 0.9555

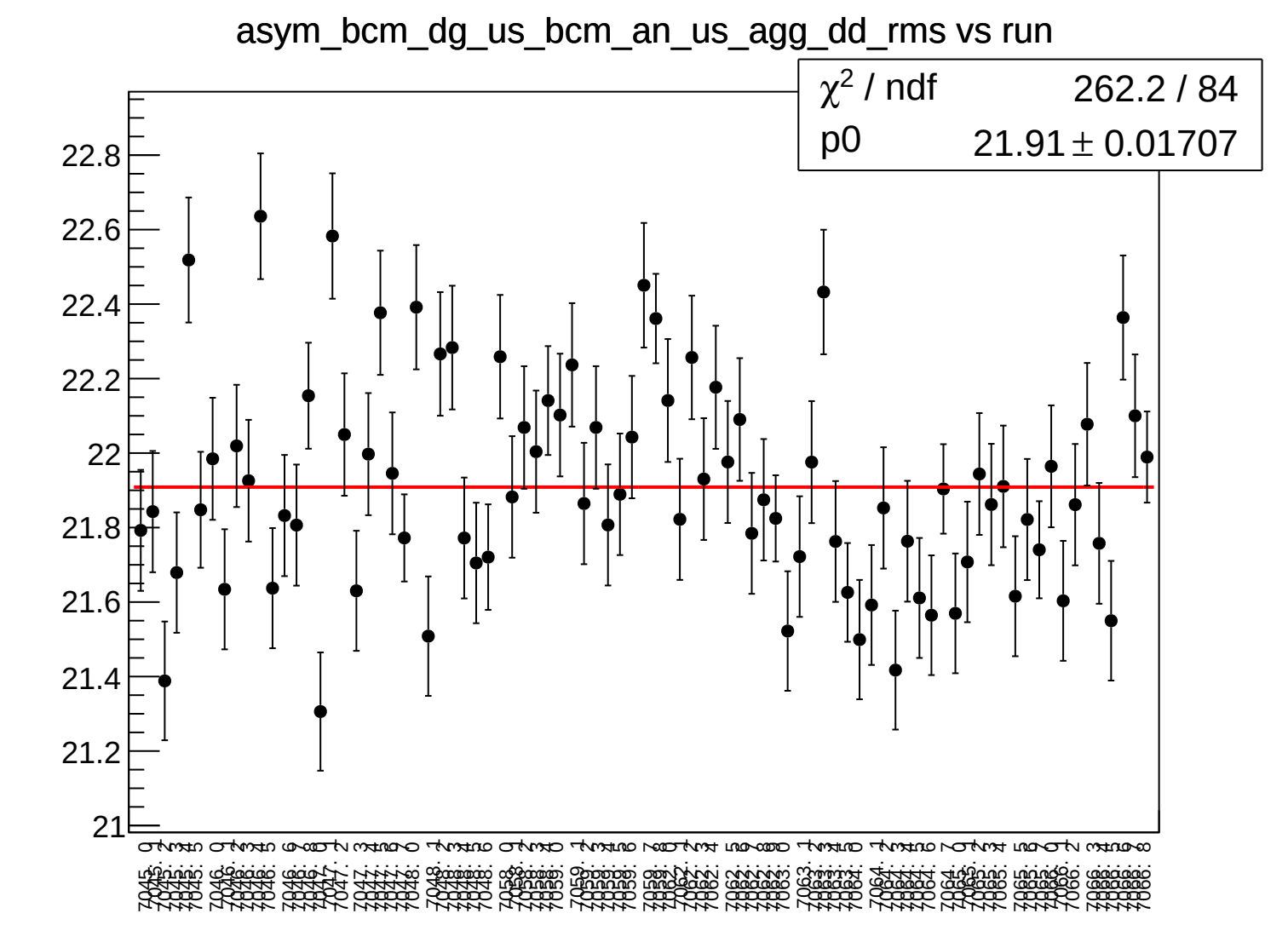

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2952 / 84
p0 16.37 ± 0.01276
18.5
18
17.5
17
16.5
16
15.5
15

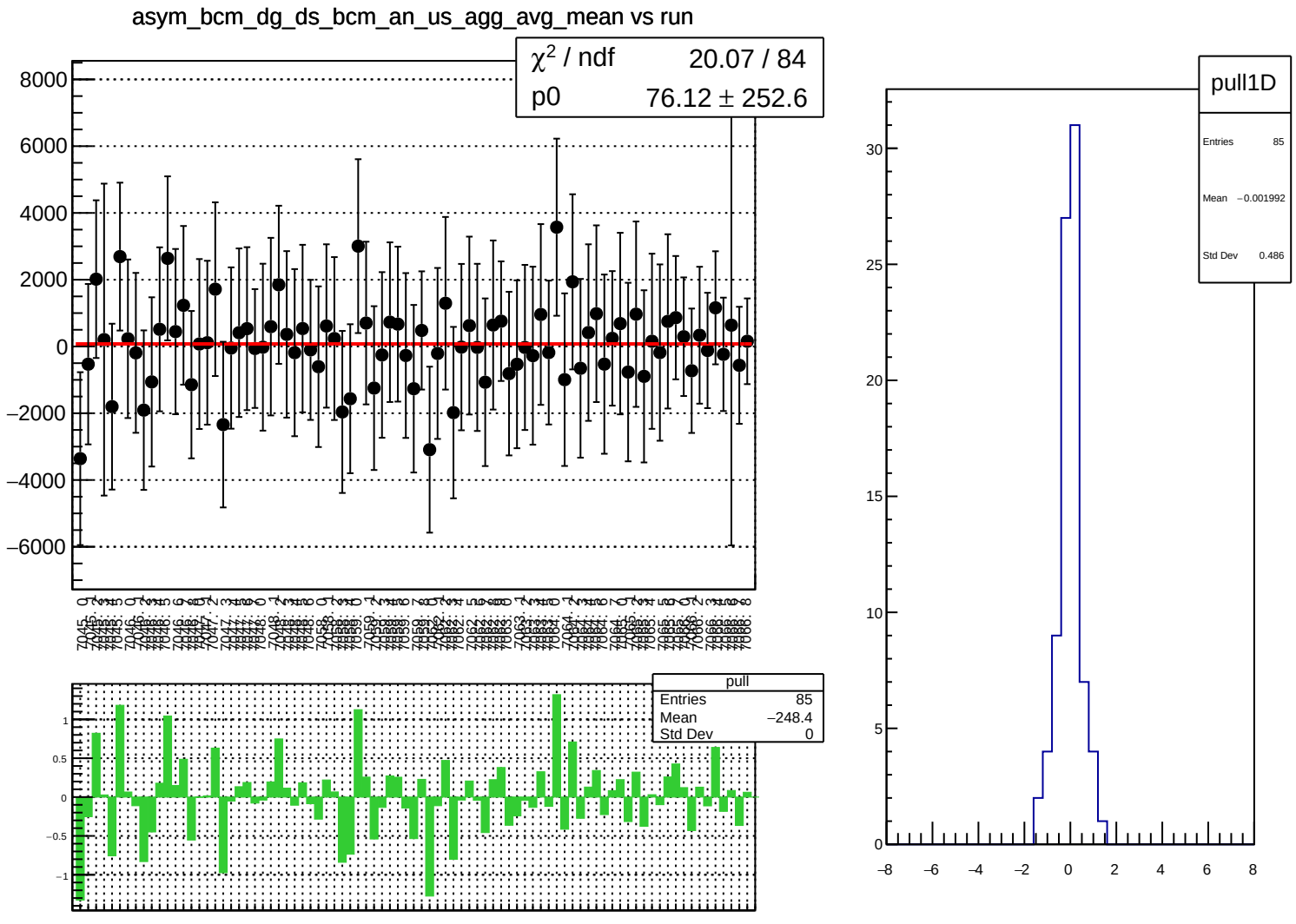

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.71 / 84
p0 55.91 ± 252.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −158.6
Std Dev 0
1
0.5
0
−0.5
−1

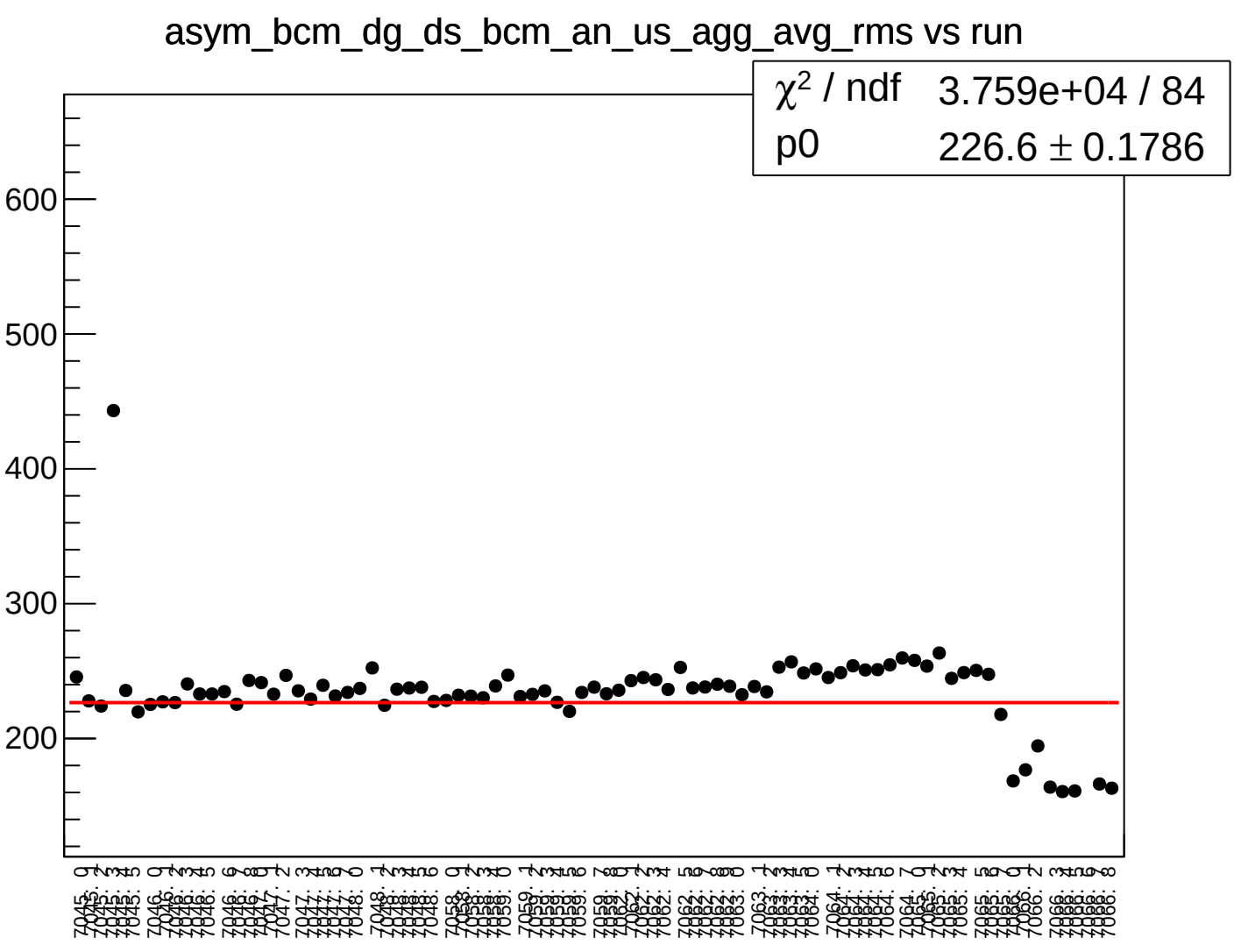

pull1D
Entries 85
Mean −0.003111
Std Dev 0.4935
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

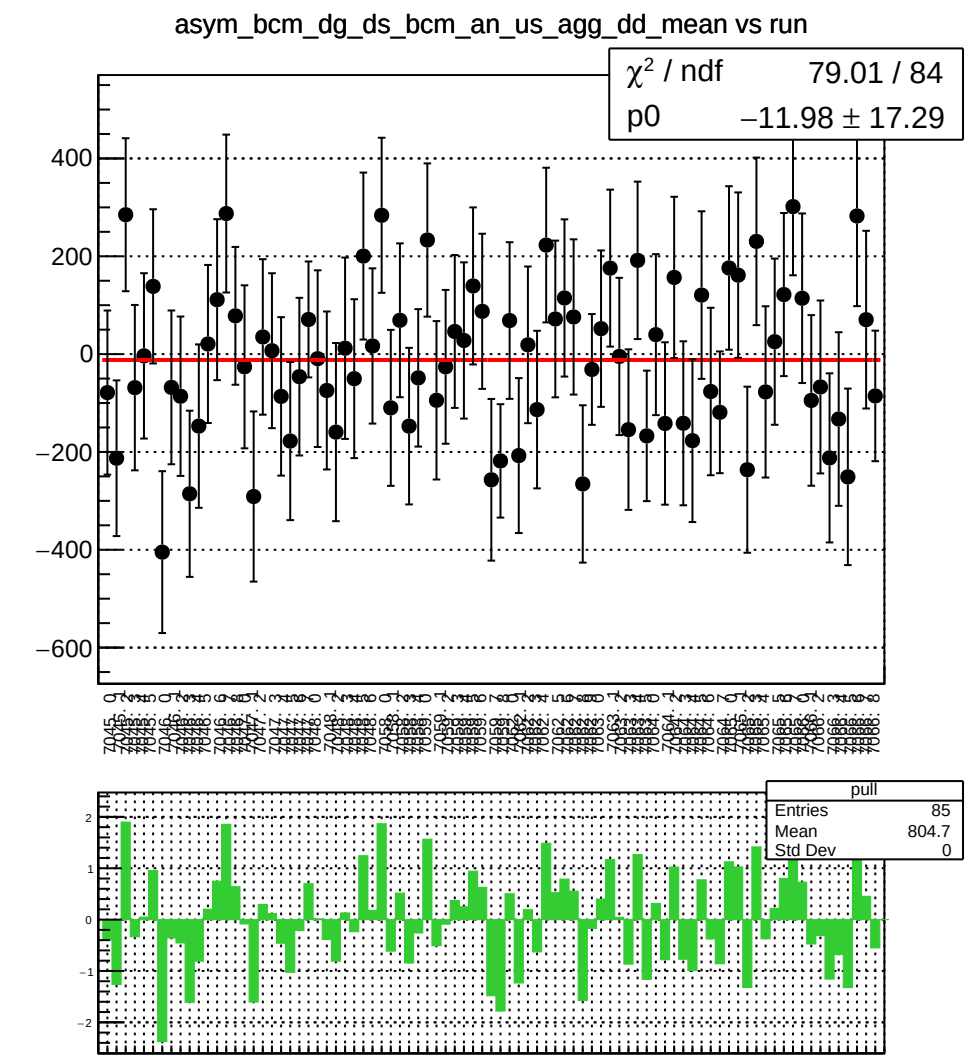

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.686e+04 / 84
p0 226.2 ± 0.1783
600
500
400
300
200

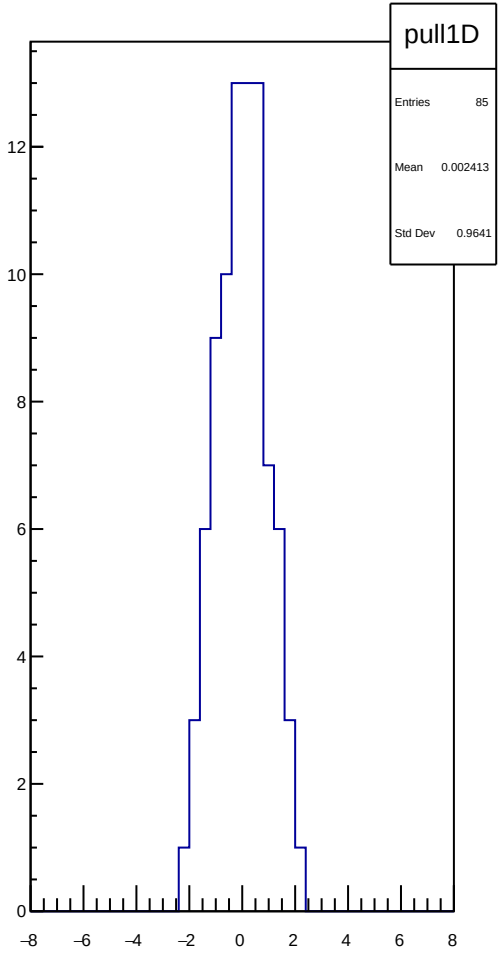

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.36 / 84
p0 −32.98 ± 24.14
1000
500
0
−500
−1000
pull
Entries 85
Mean −423.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.003377
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

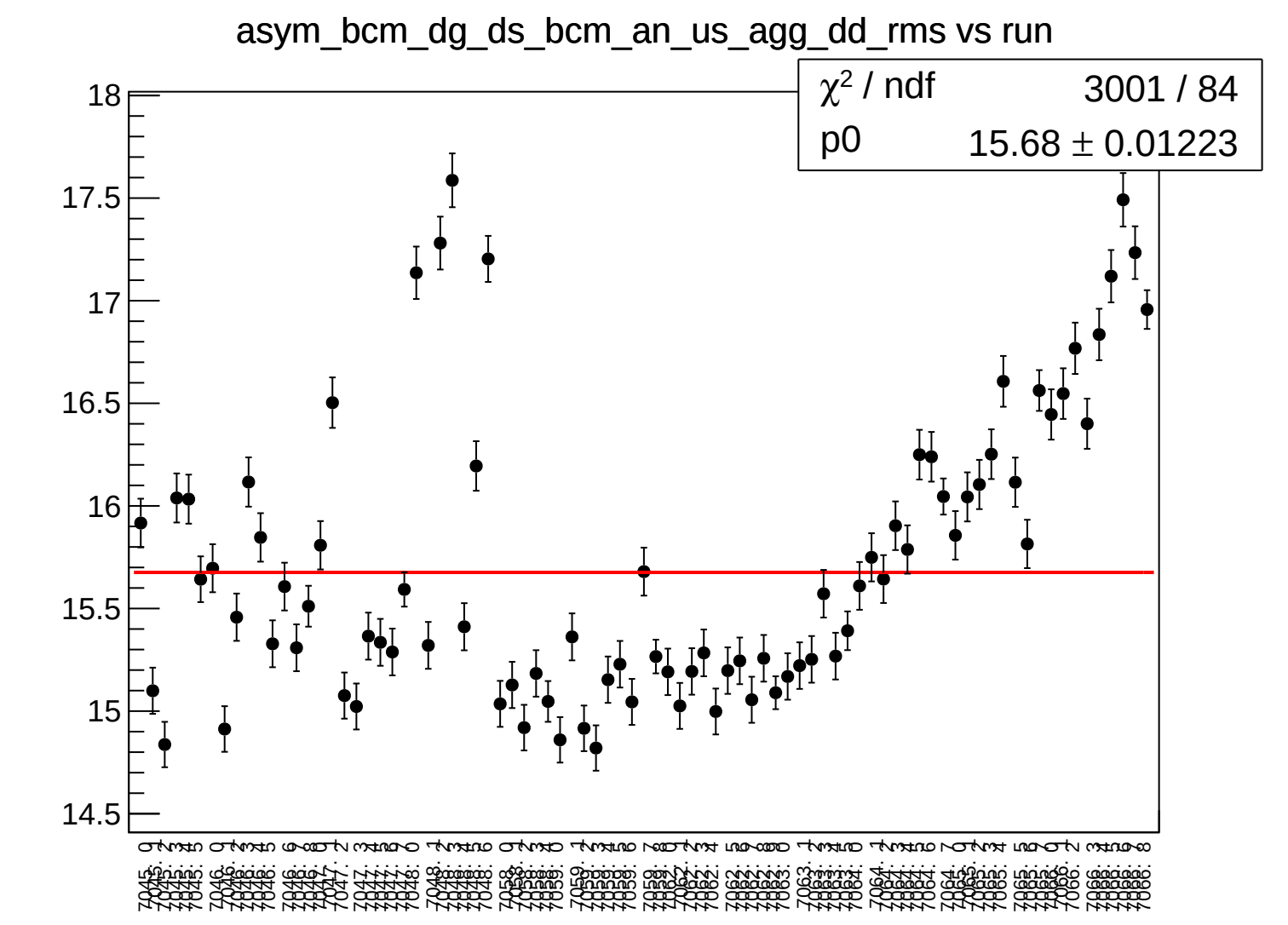

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 262.2 / 84
p0 21.91 ± 0.01707
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21

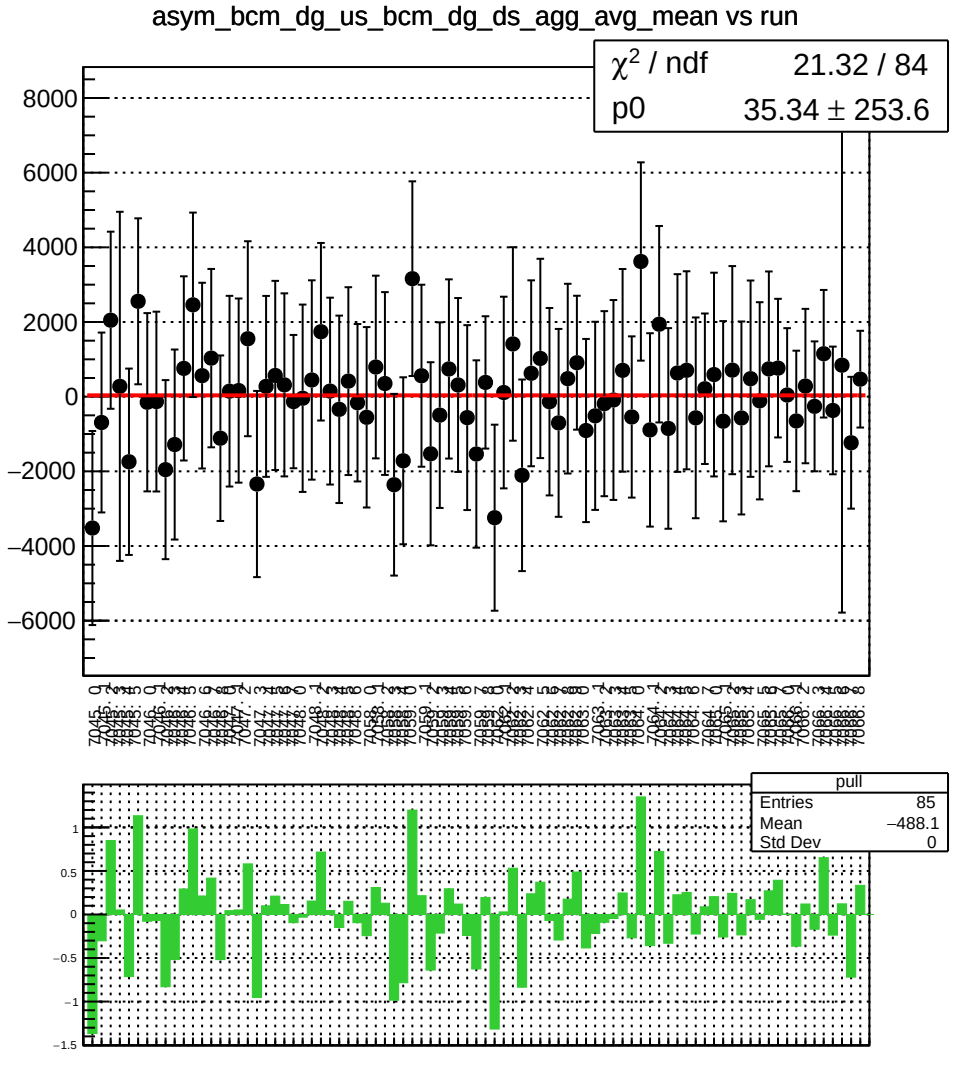

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.07 / 84
p0 76.12 ± 252.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −248.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.001992
Std Dev 0.486
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

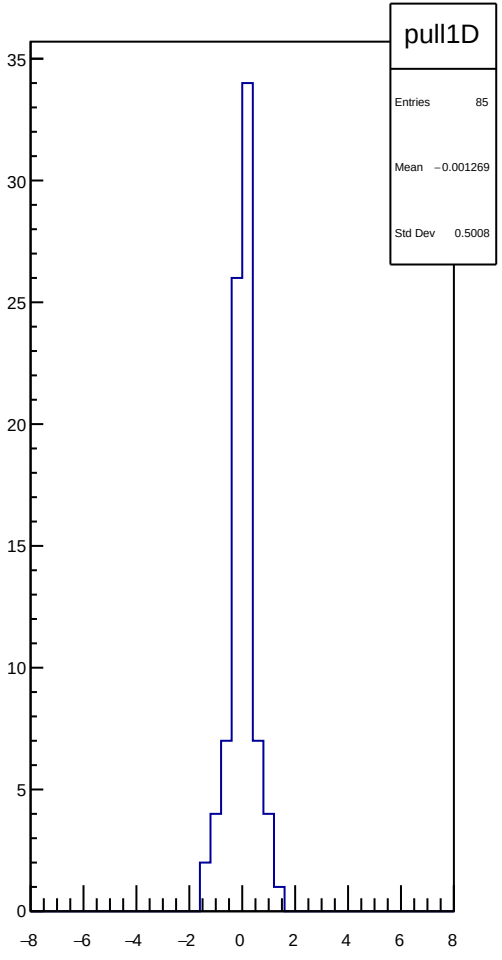

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.759e+04 / 84
p0 226.6 ± 0.1786
600
500
400
300
200

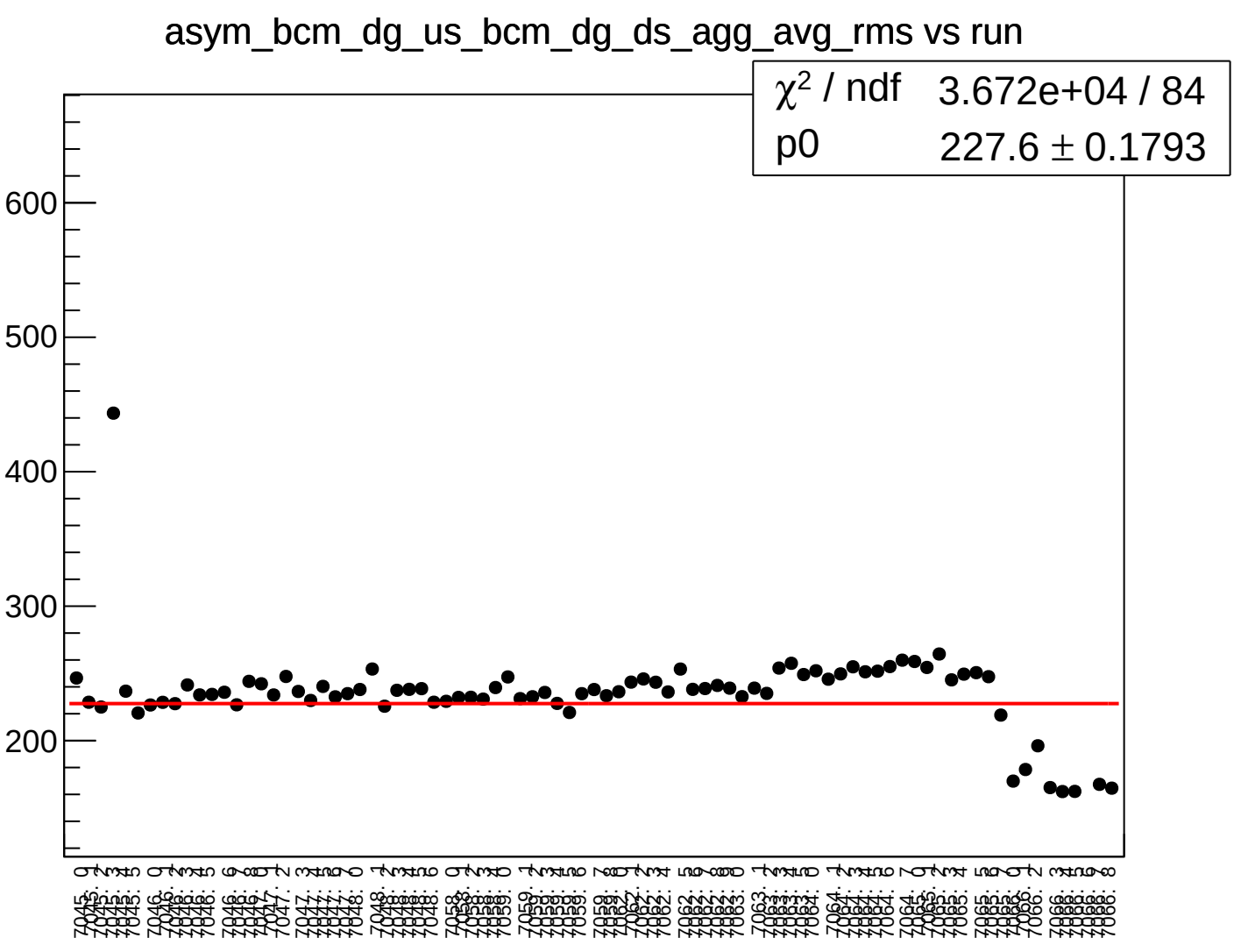

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.01 / 84
p0 −11.98 ± 17.29
400
200
0
−200
−400
−600
pull
Entries 85
Mean 804.7
Std Dev 0
2
1
0
−1
−2

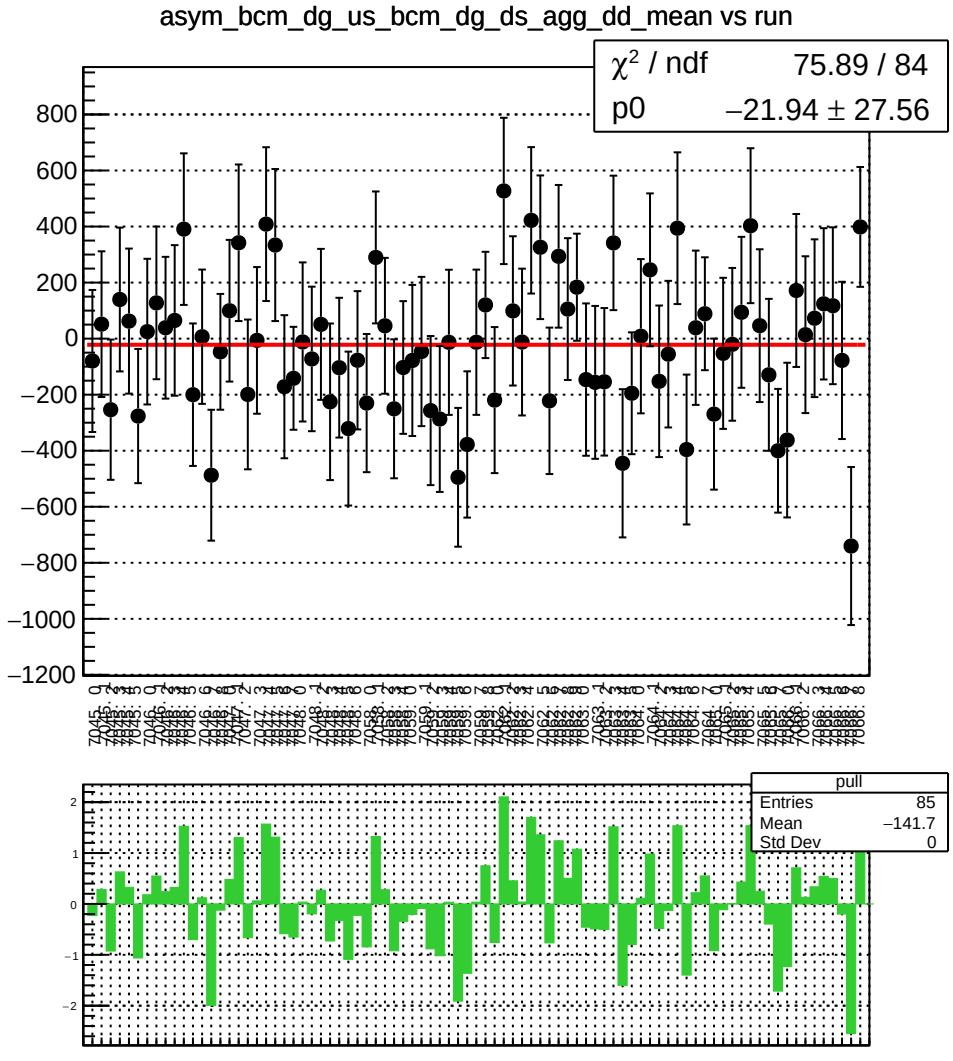

pull1D
Entries 85
Mean 0.002413
Std Dev 0.9641
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

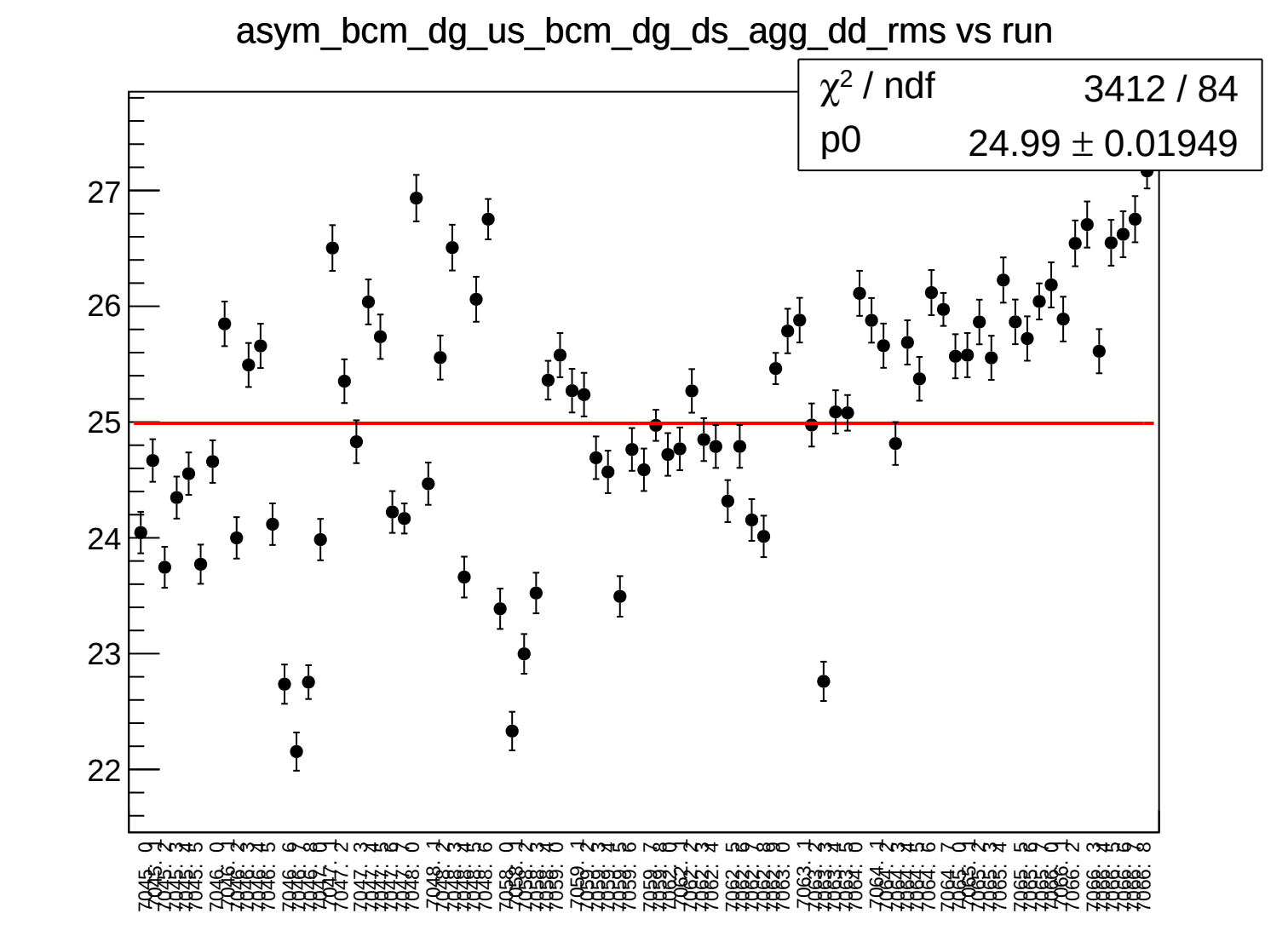

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3001 / 84
p0 15.68 ± 0.01223
18
17.5
17
16.5
16
15.5
15
14.5

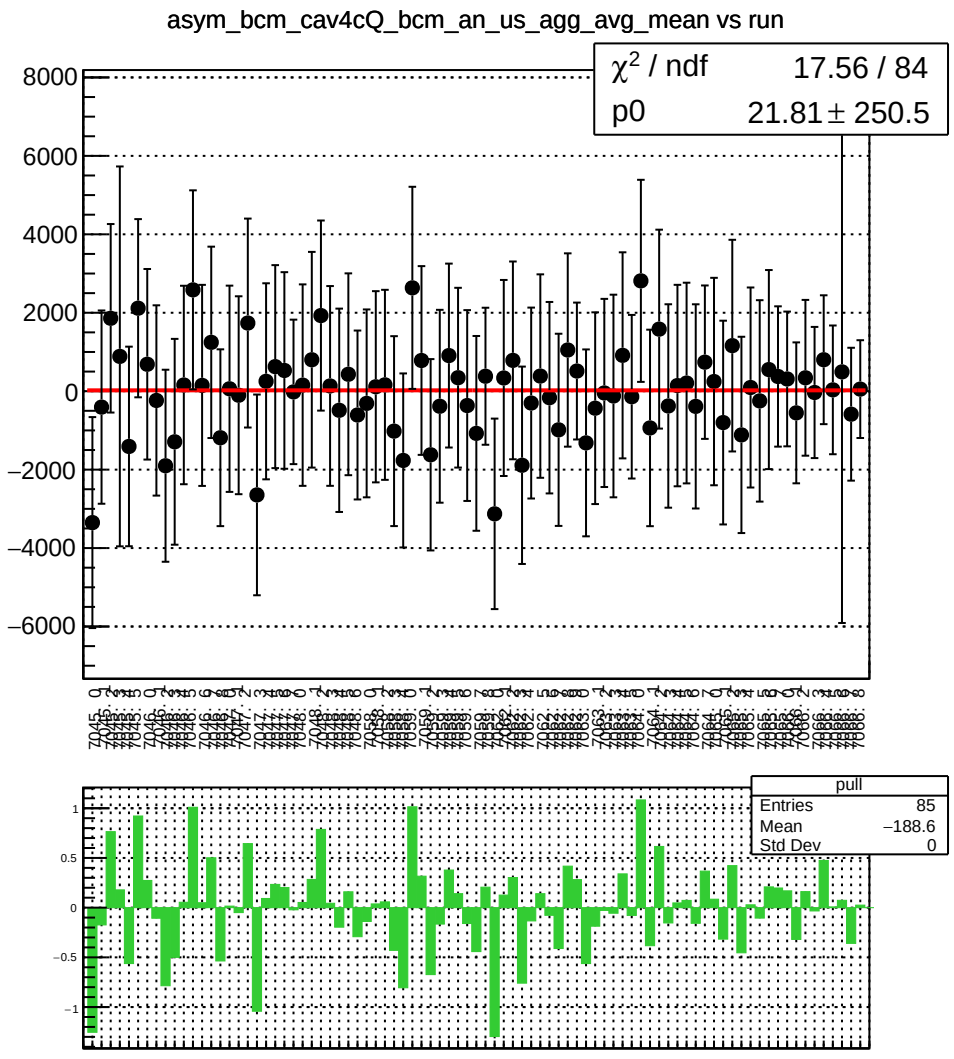

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.32 / 84
p0 35.34 ± 253.6
pull
Entries 85
Mean −488.1
Std Dev 0

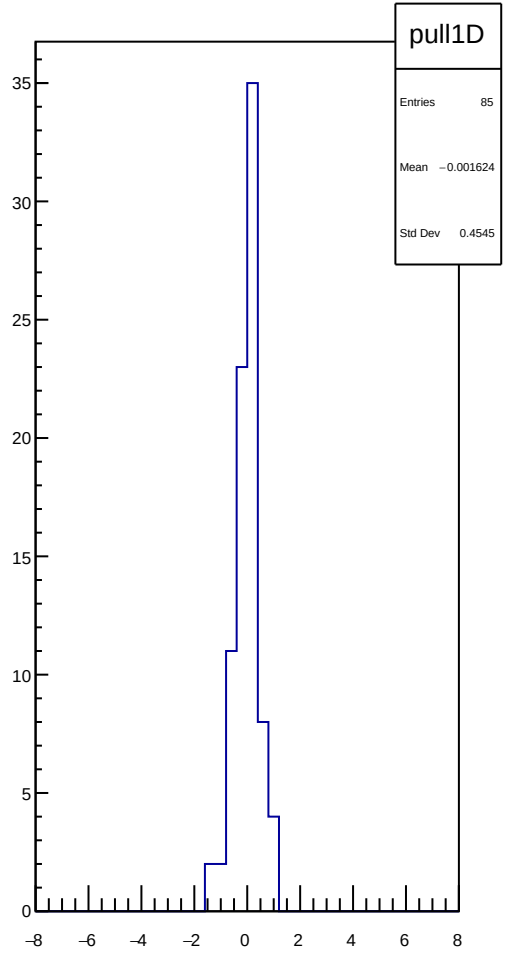

pull1D
Entries 85
Mean −0.001269
Std Dev 0.5008

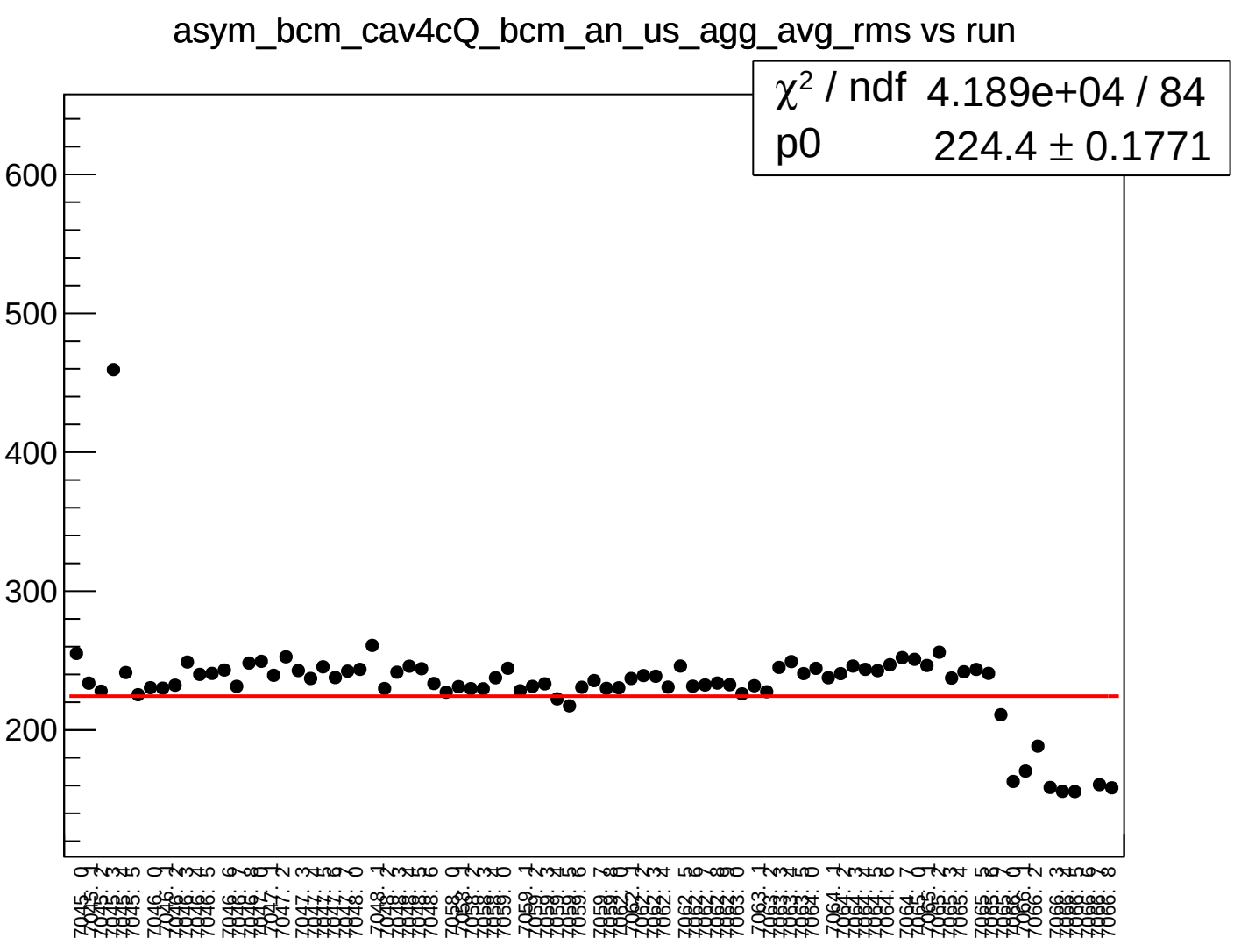

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.672e+04 / 84
p0 227.6 ± 0.1793
600
500
400
300
200

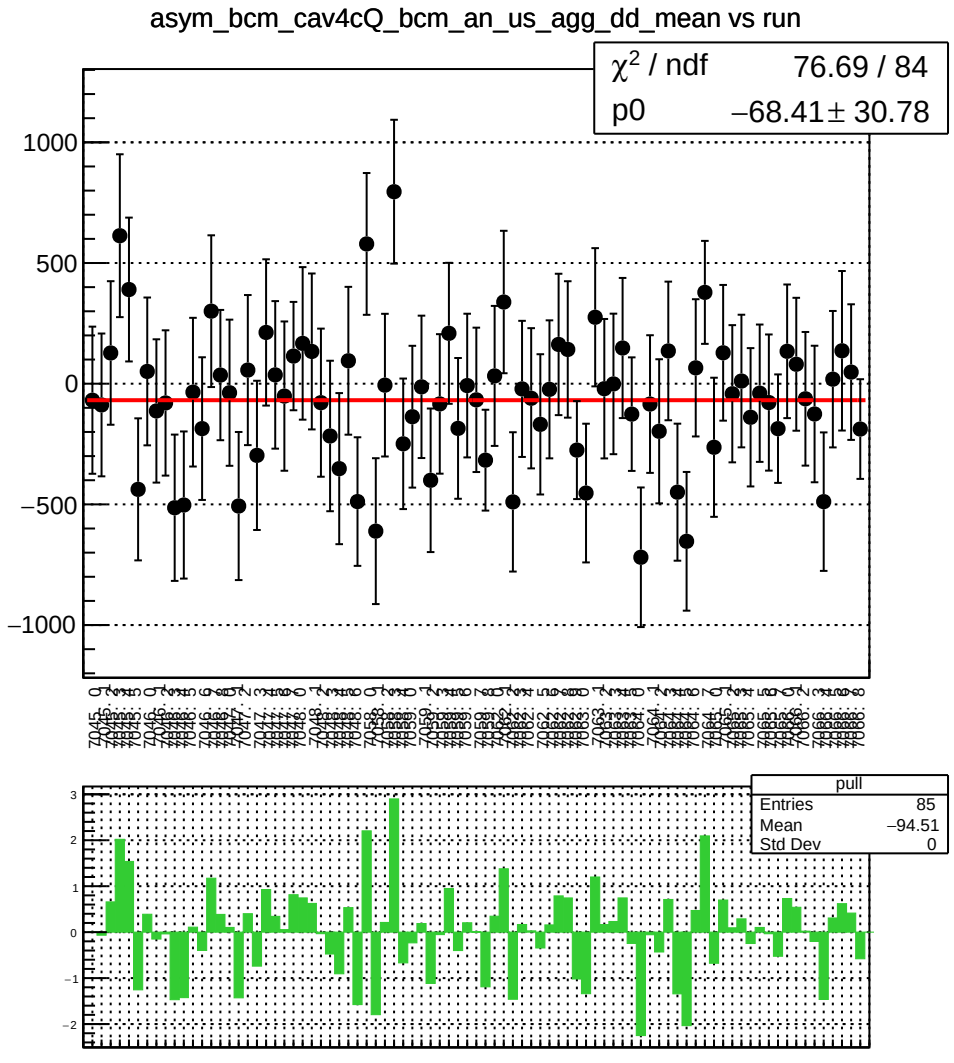

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.89 / 84
p0 −21.94 ± 27.56
pull
Entries 85
Mean −141.7
Std Dev 0
pull1D
Entries 85
Mean −0.001774
Std Dev 0.9449

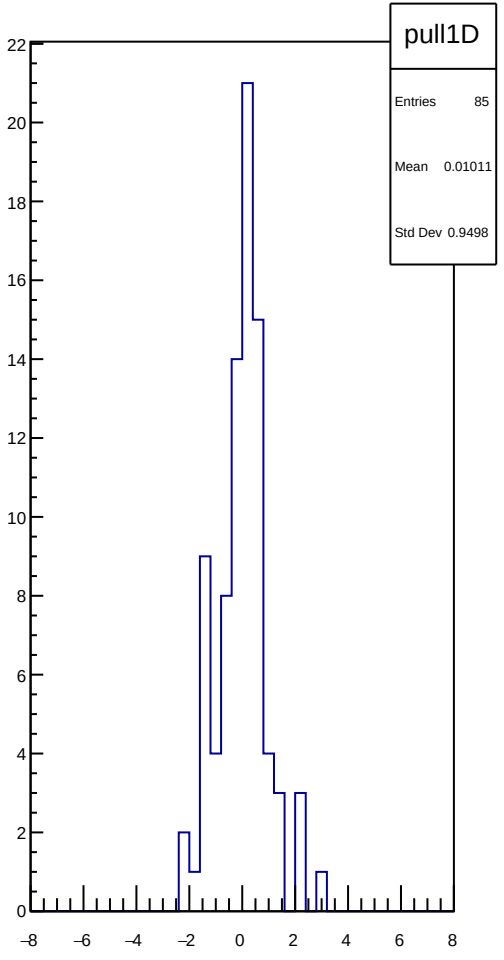

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3412 / 84
p0 24.99 ± 0.01949
27
26
25
24
23
22

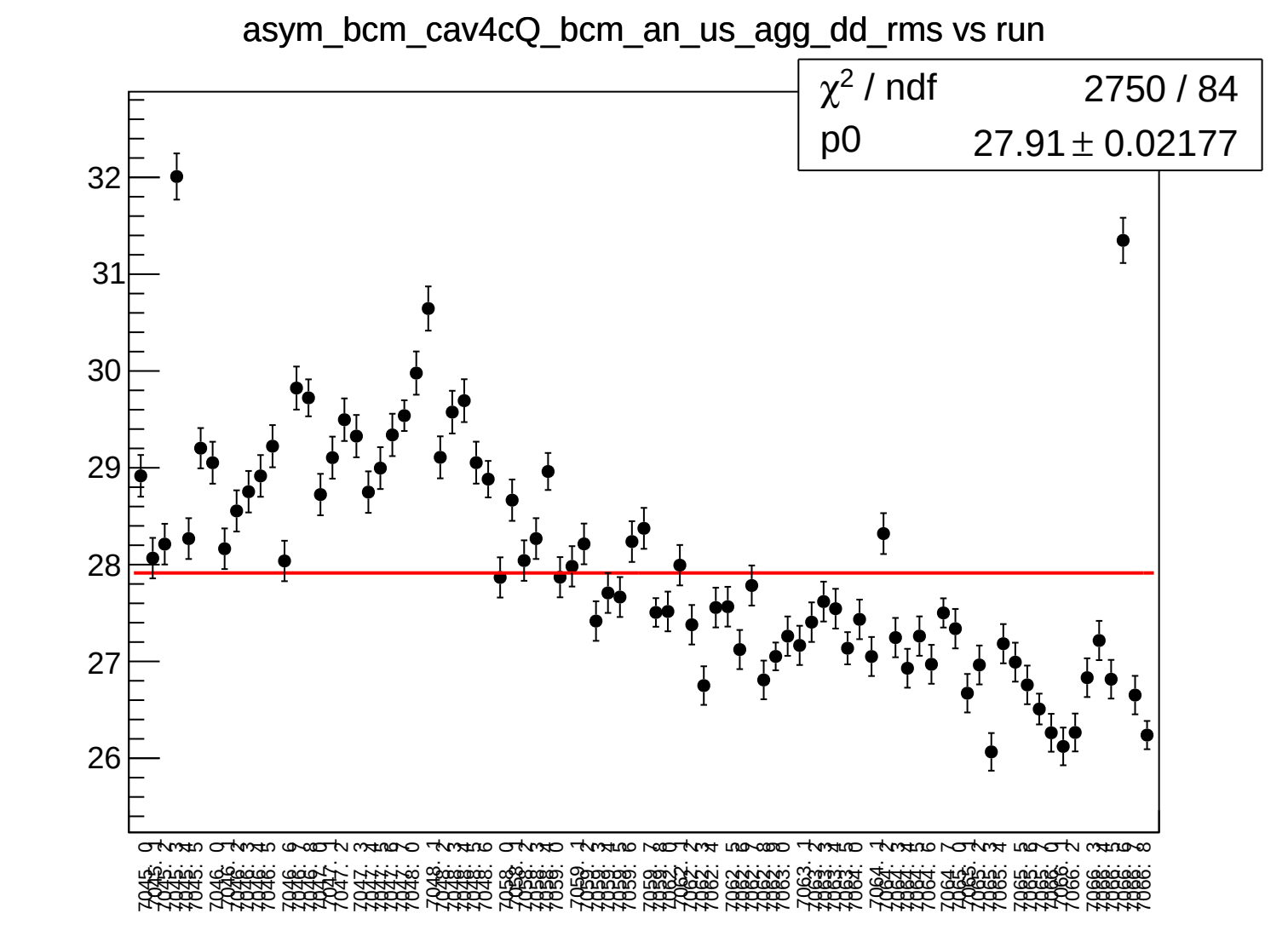

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.56 / 84
p0 21.81 ± 250.5
pull
Entries 85
Mean −188.6
Std Dev 0

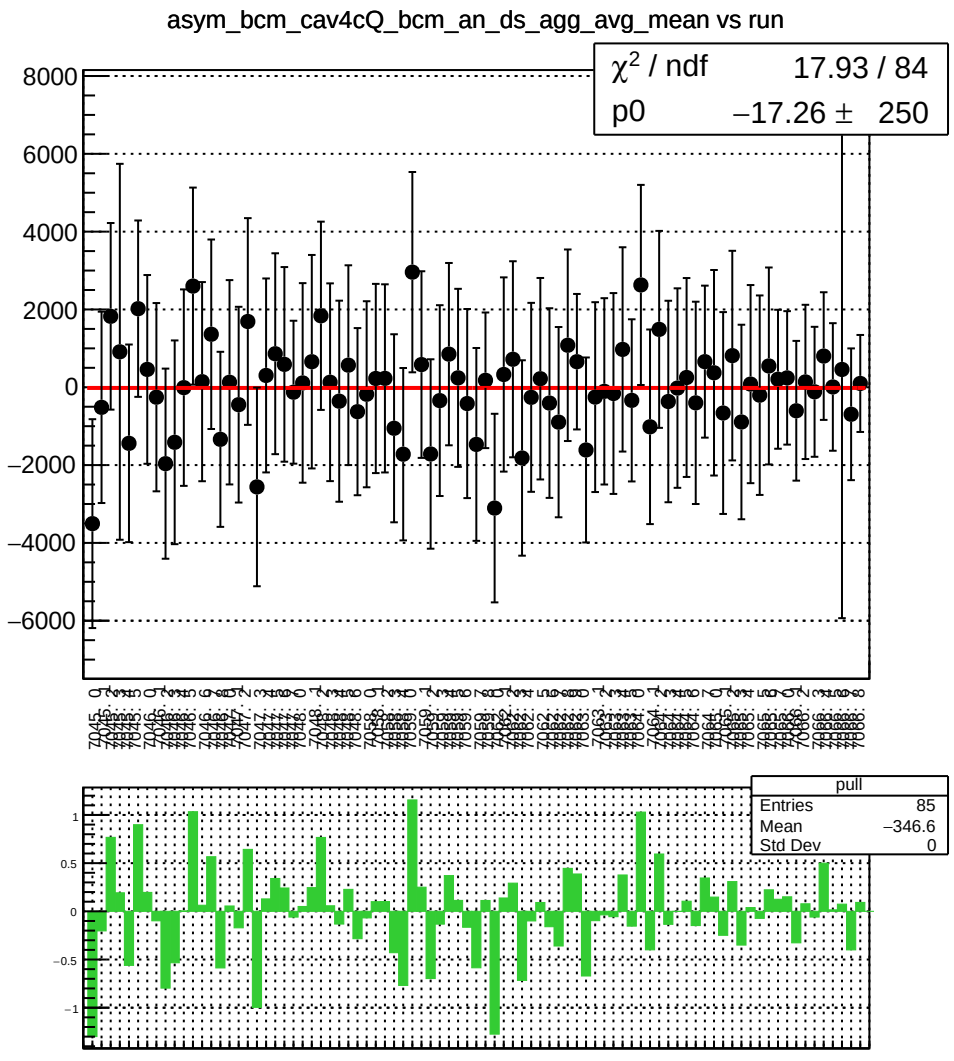

pull1D
Entries 85
Mean −0.001624
Std Dev 0.4545

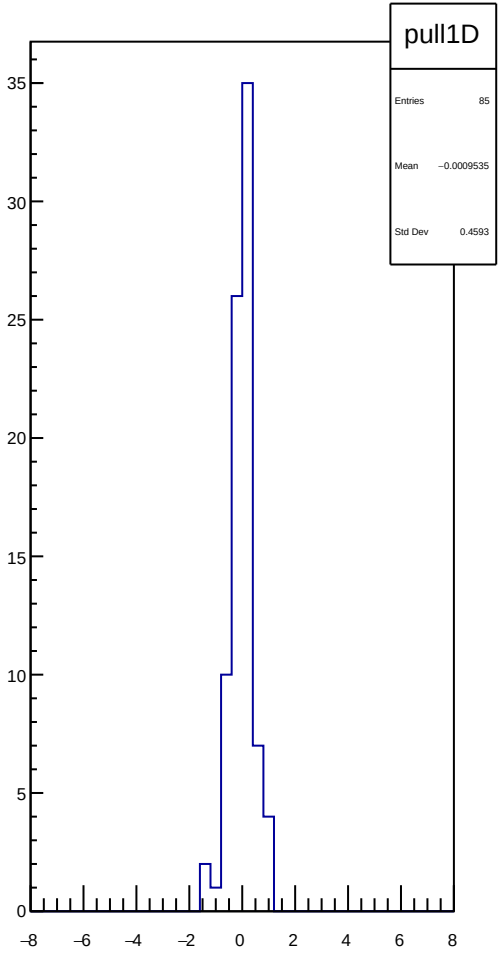

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.189e+04 / 84
p0 224.4 ± 0.1771
600
500
400
300
200

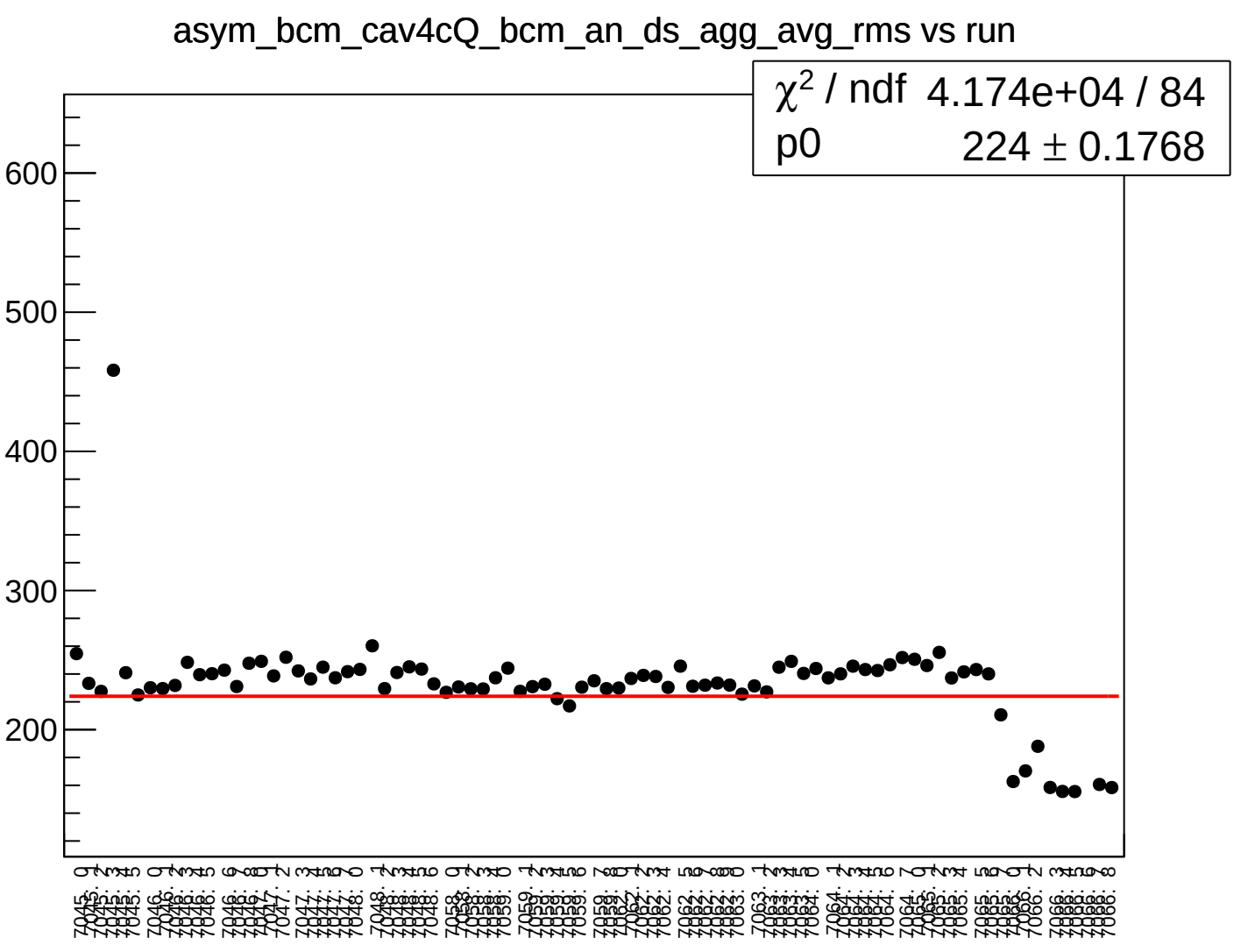

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.69 / 84
p0 −68.41 ± 30.78
1000
500
0
−500
−1000
pull
Entries 85
Mean −94.51
Std Dev 0
3
2
1
0
−1
−2

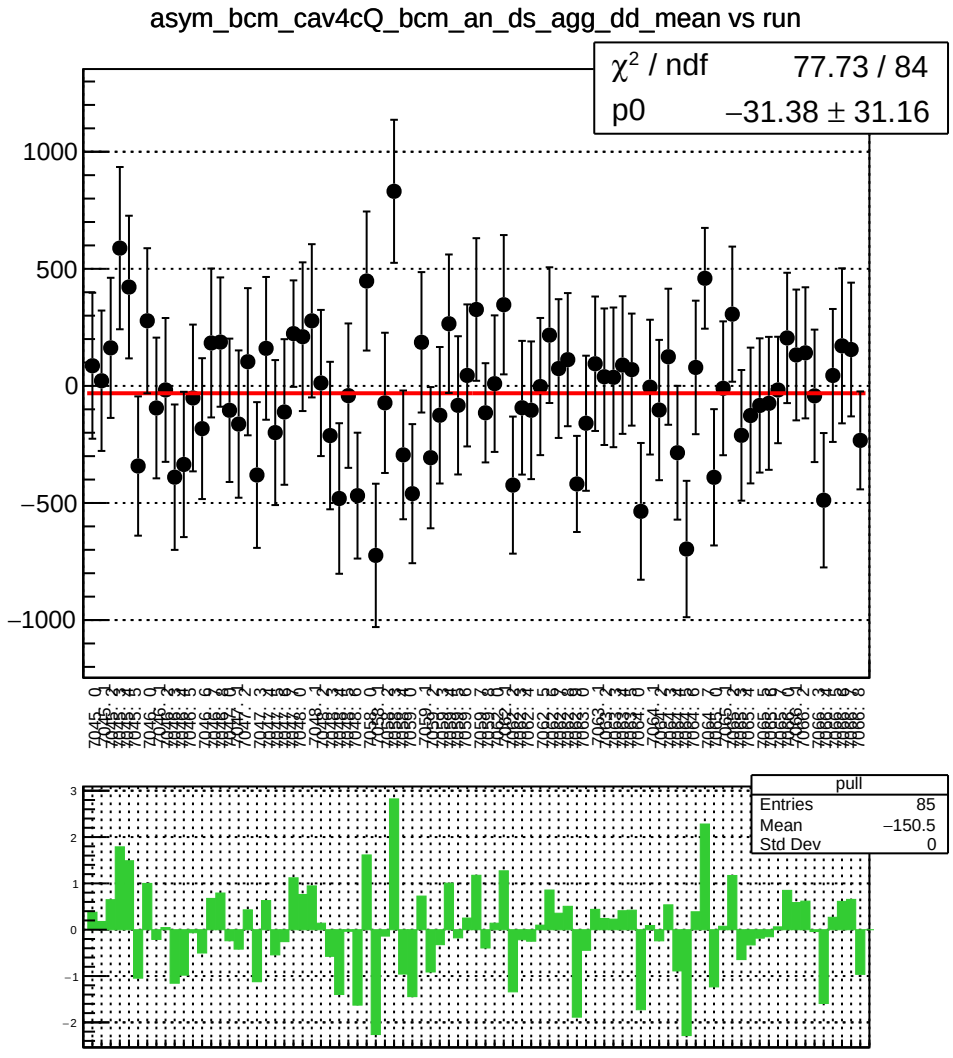

pull1D
Entries 85
Mean 0.01011
Std Dev 0.9498
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

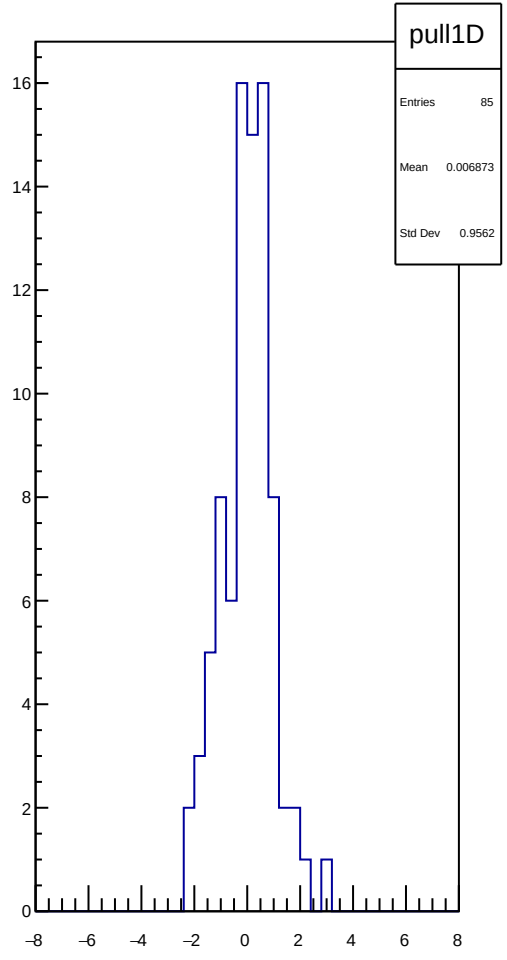

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2750 / 84
p0 27.91 ± 0.02177
32
31
30
29
28
27
26

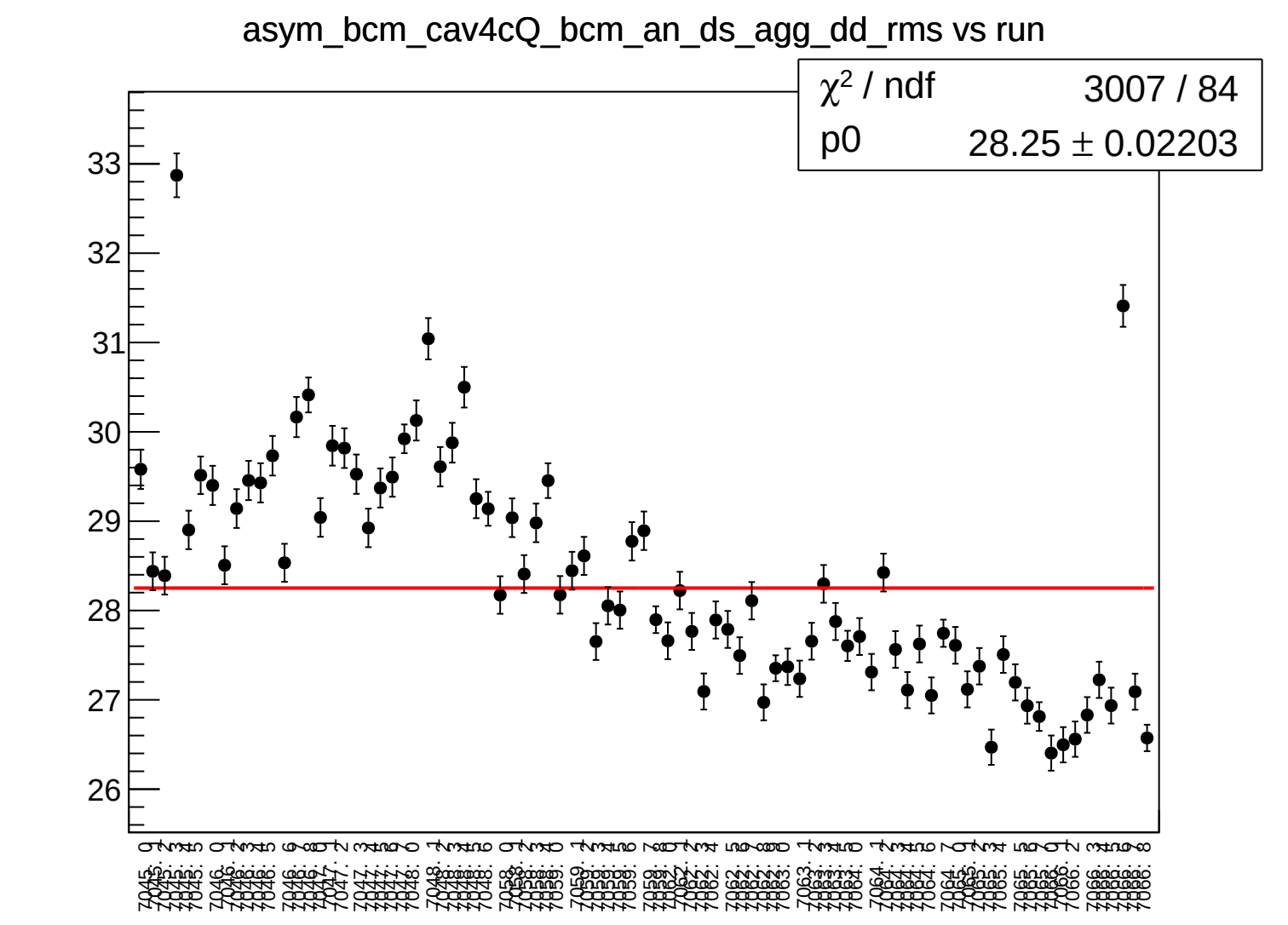

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.93 / 84
p0 −17.26 ± 250
pull
Entries 85
Mean −346.6
Std Dev 0

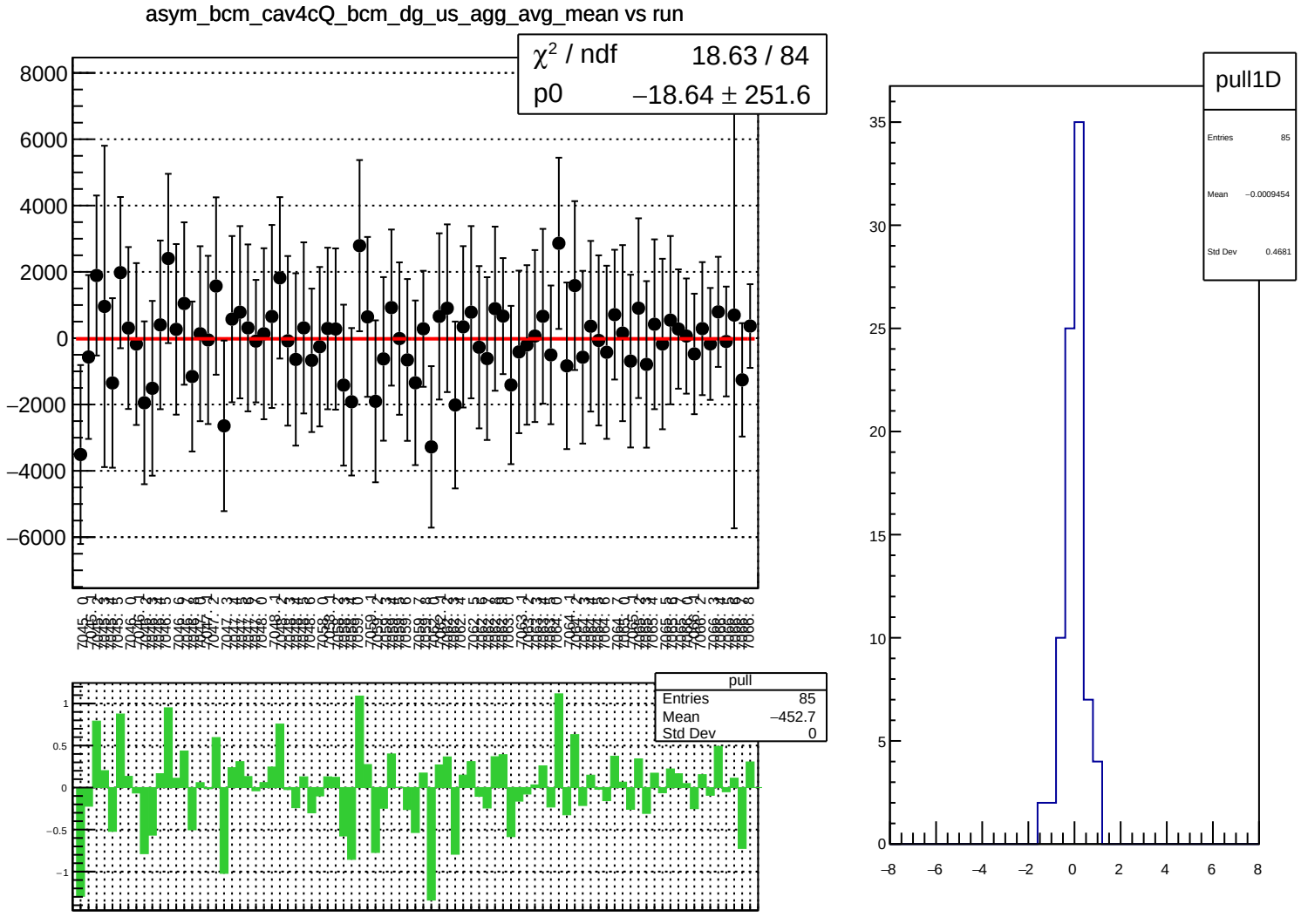

pull1D
Entries 85
Mean −0.0009535
Std Dev 0.4593

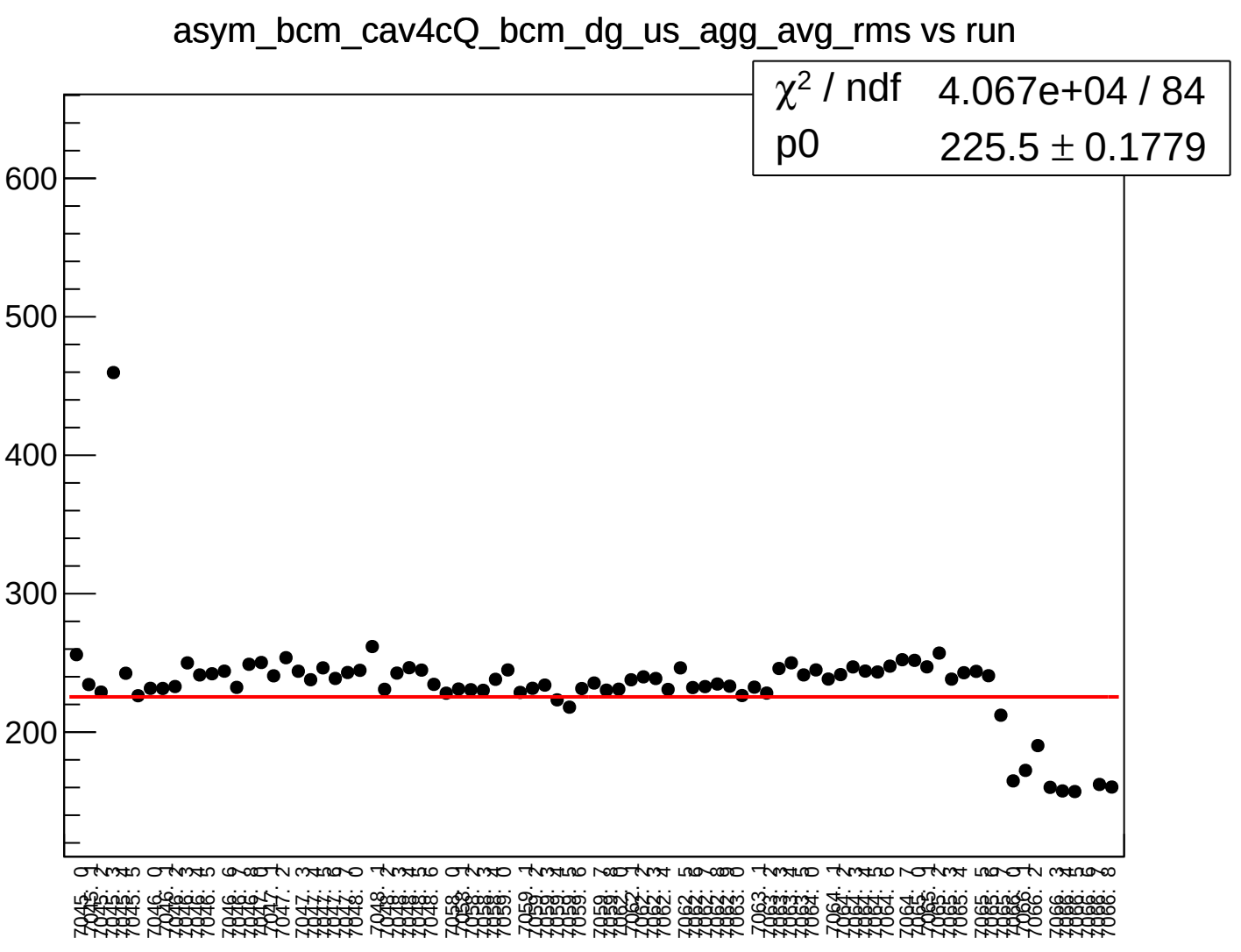

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.174e+04 / 84
p0 224 ± 0.1768
600
500
400
300
200

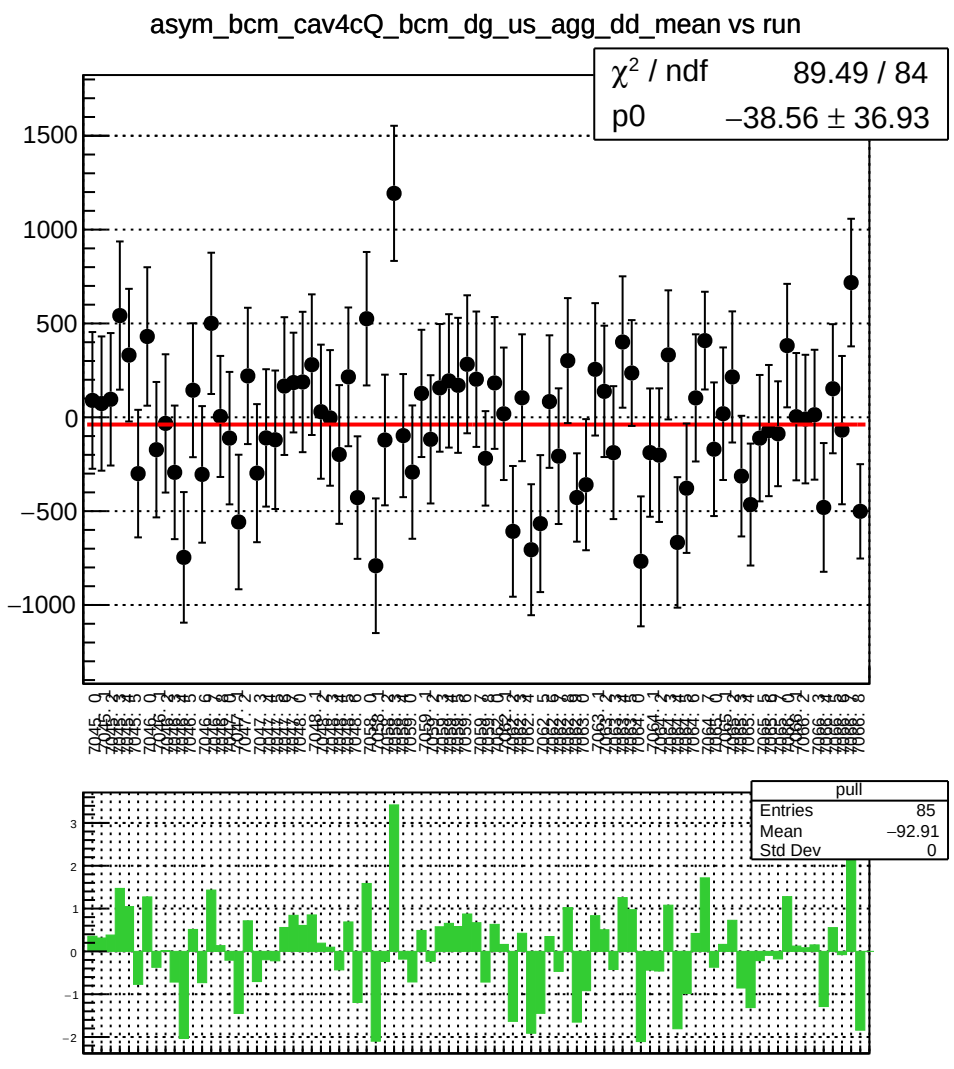

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.73 / 84
p0 −31.38 ± 31.16
1000
500
0
−500
−1000
pull
Entries 85
Mean −150.5
Std Dev 0
3
2
1
0
−1
−2

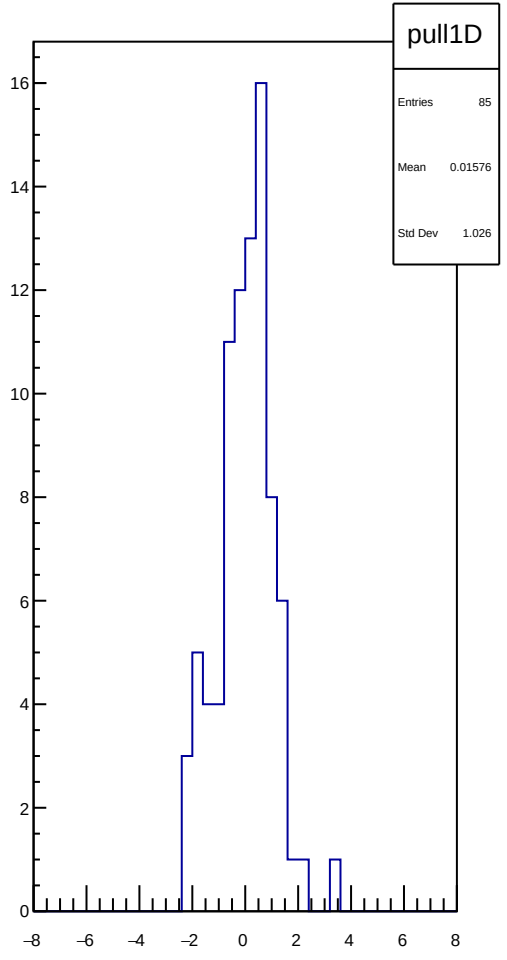

pull1D
Entries 85
Mean 0.006873
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

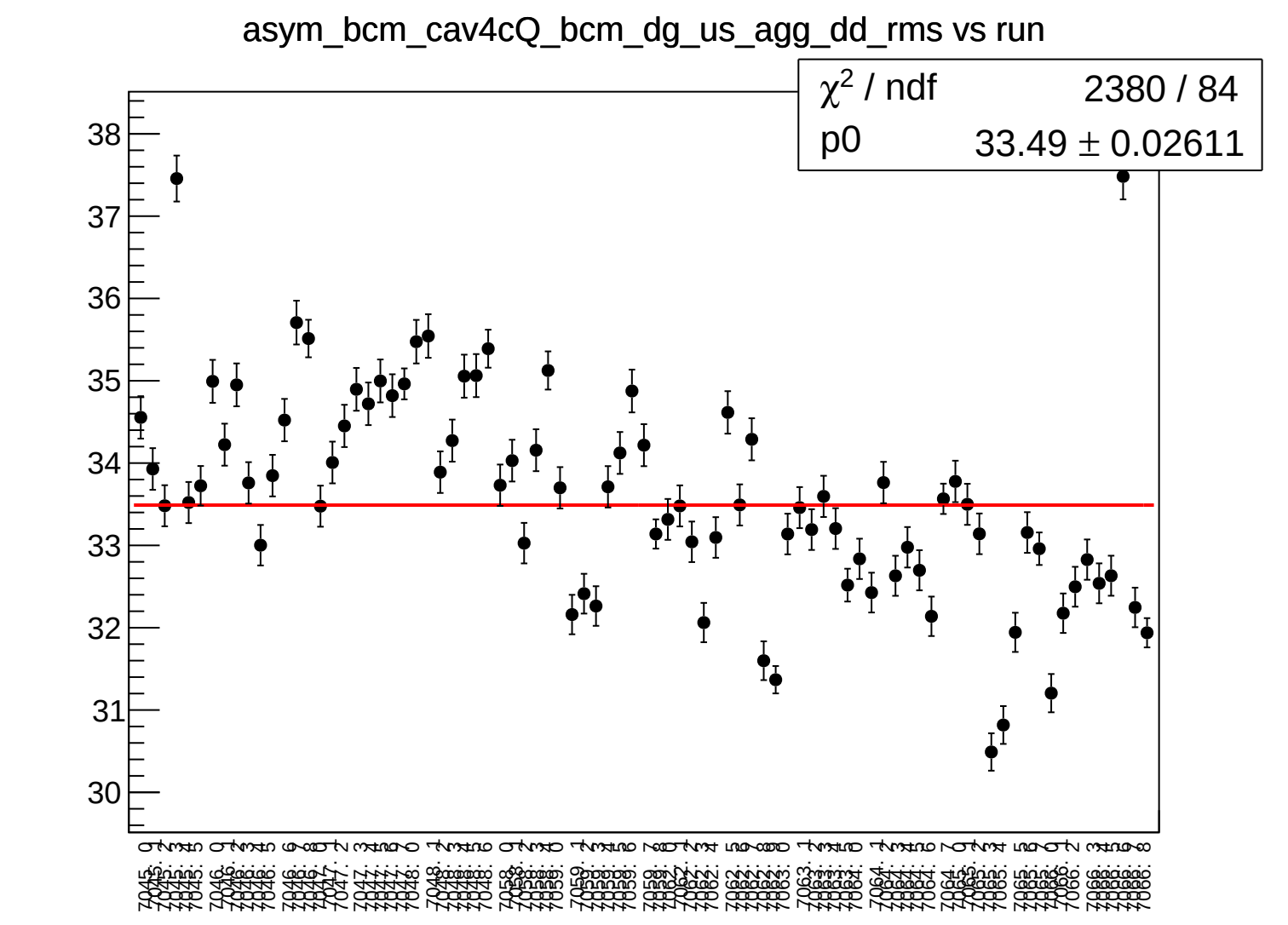

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3007 / 84
p0 28.25 ± 0.02203
33
32
31
30
29
28
27
26

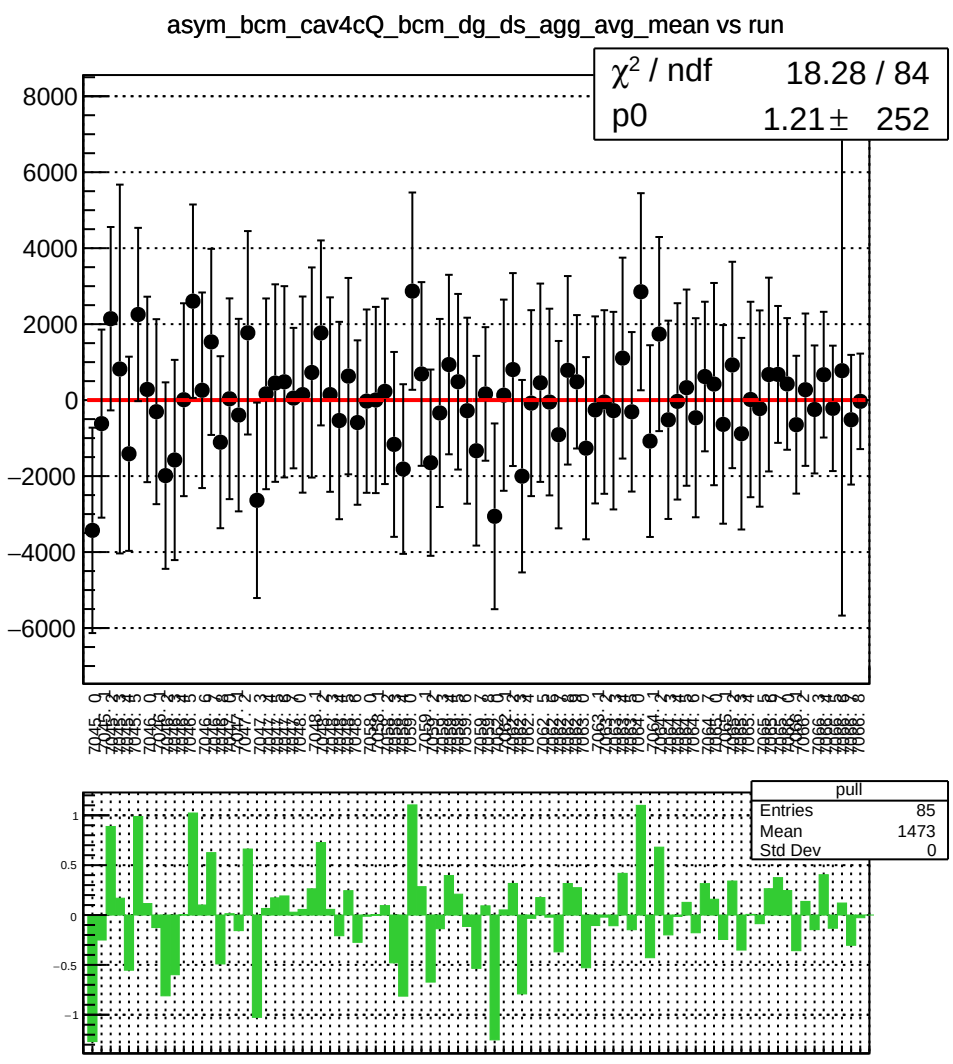

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.63 / 84
p0 −18.64 ± 251.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −452.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.0009454
Std Dev 0.4681
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

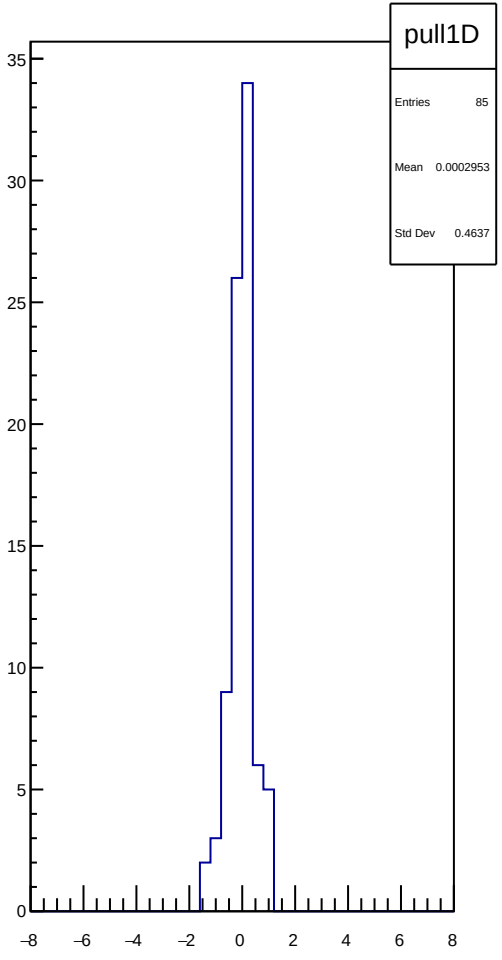

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4.067e+04 / 84
p0 225.5 ± 0.1779
600
500
400
300
200

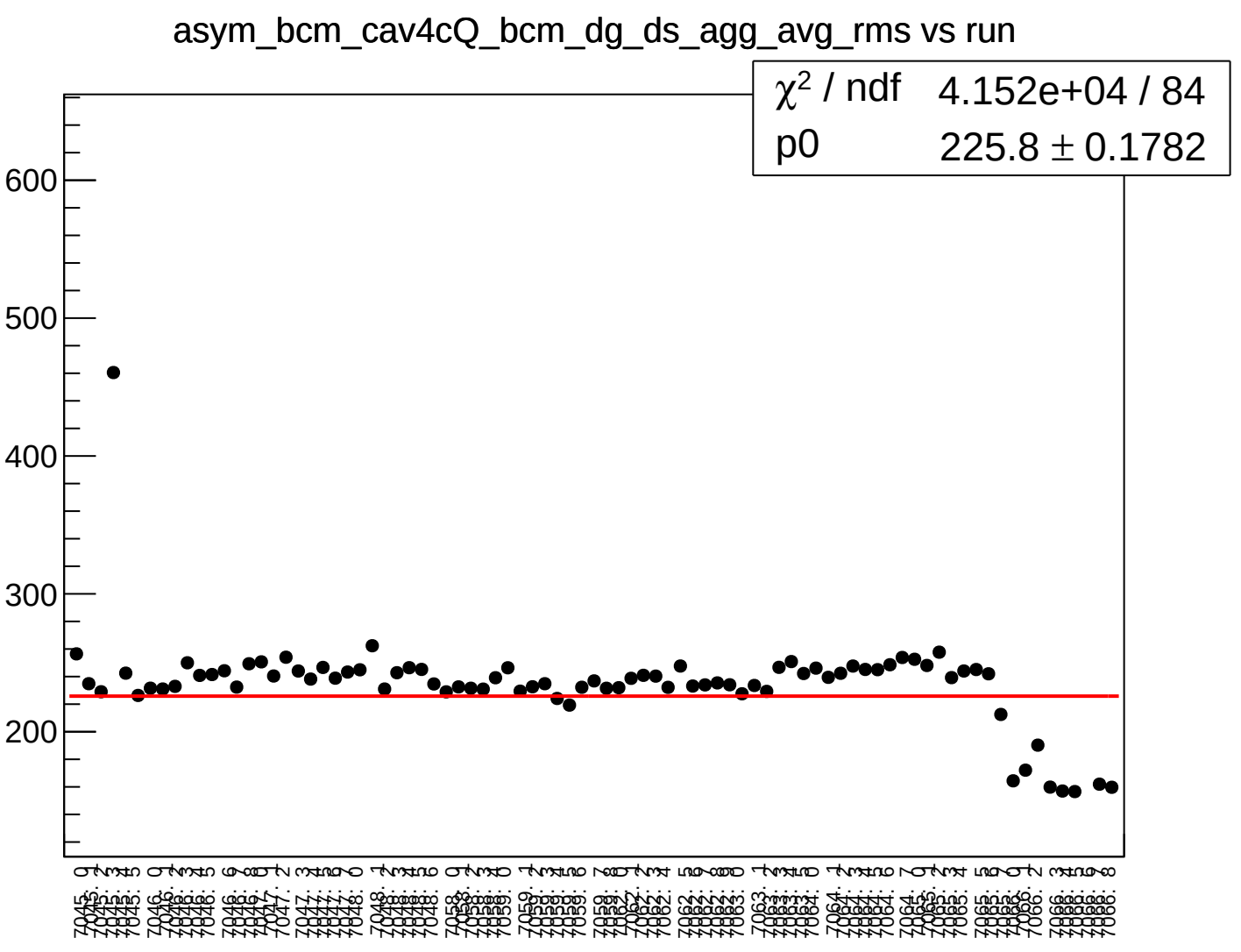

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 89.49 / 84
p0 −38.56 ± 36.93
1500
1000
500
0
−500
−1000
pull
Entries 85
Mean −92.91
Std Dev 0
3
2
1
0
−1
−2

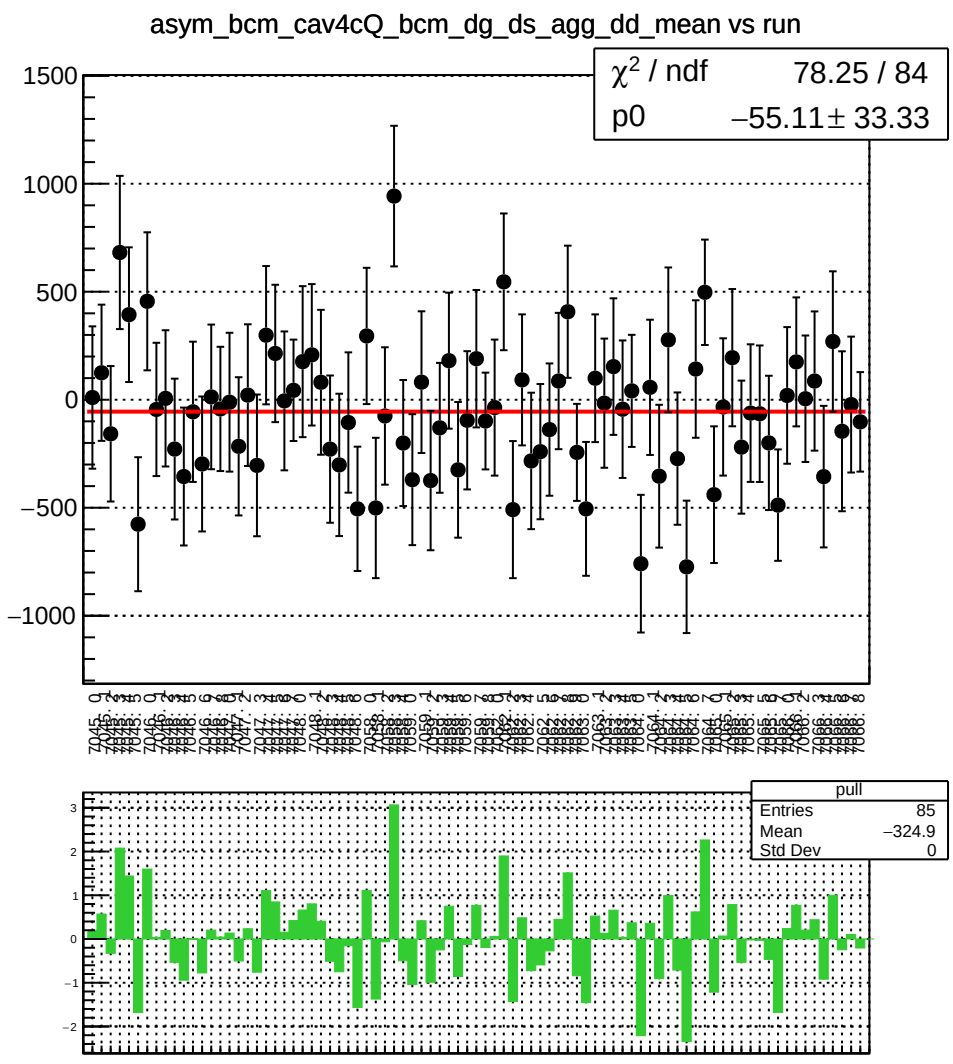

pull1D
Entries 85
Mean 0.01576
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

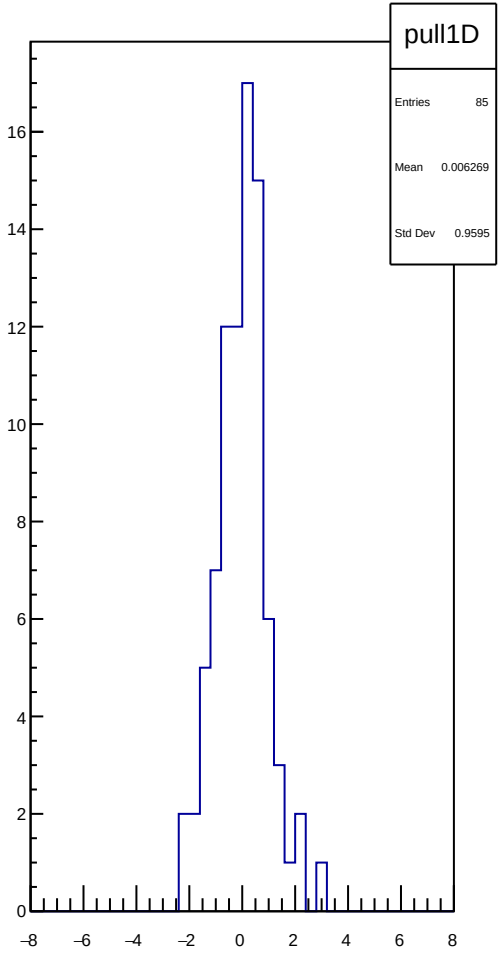

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2380 / 84
p0 33.49 ± 0.02611
38
37
36
35
34
33
32
31
30

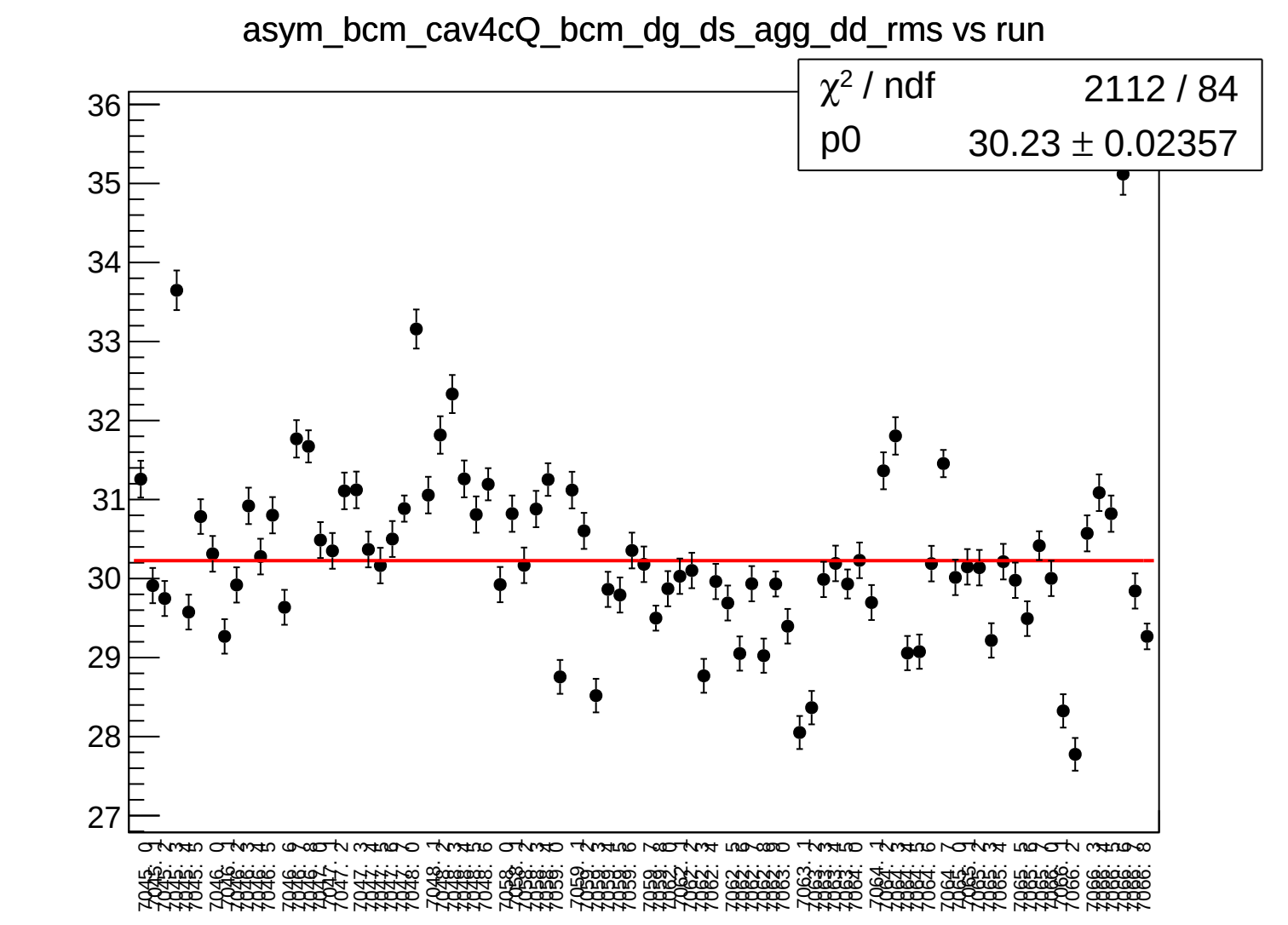

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.28 / 84
p0 1.21± 252
pull
Entries 85
Mean 1473
Std Dev 0

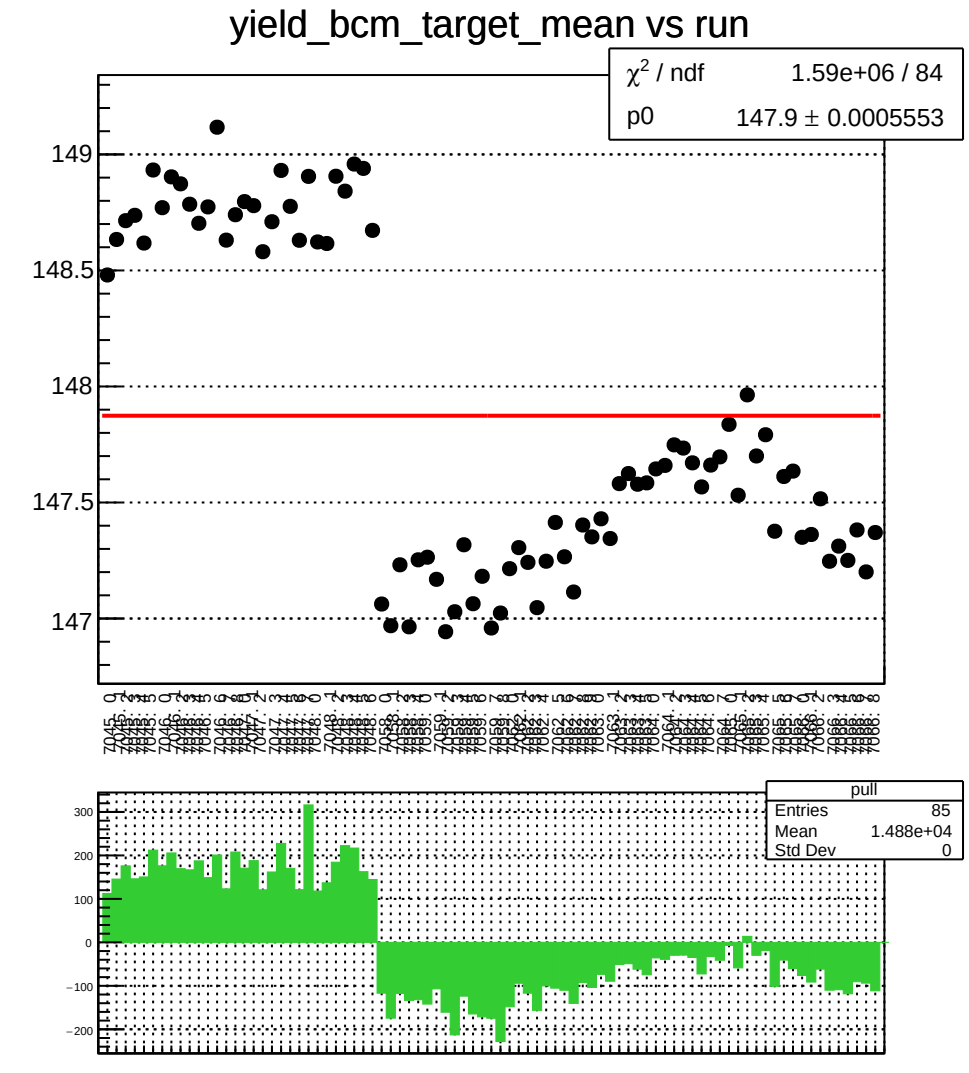

pull1D
Entries 85
Mean 0.0002953
Std Dev 0.4637

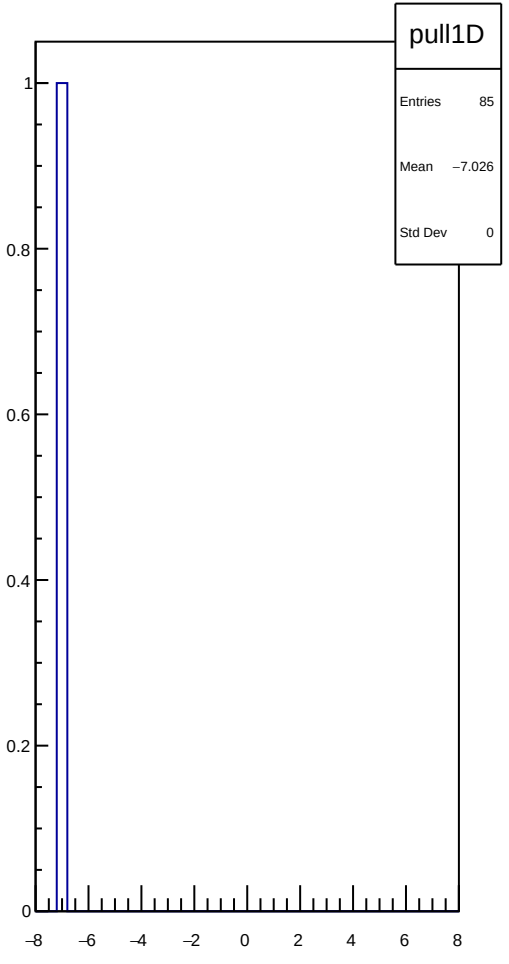

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.152e+04 / 84
p0 225.8 ± 0.1782
600
500
400
300
200

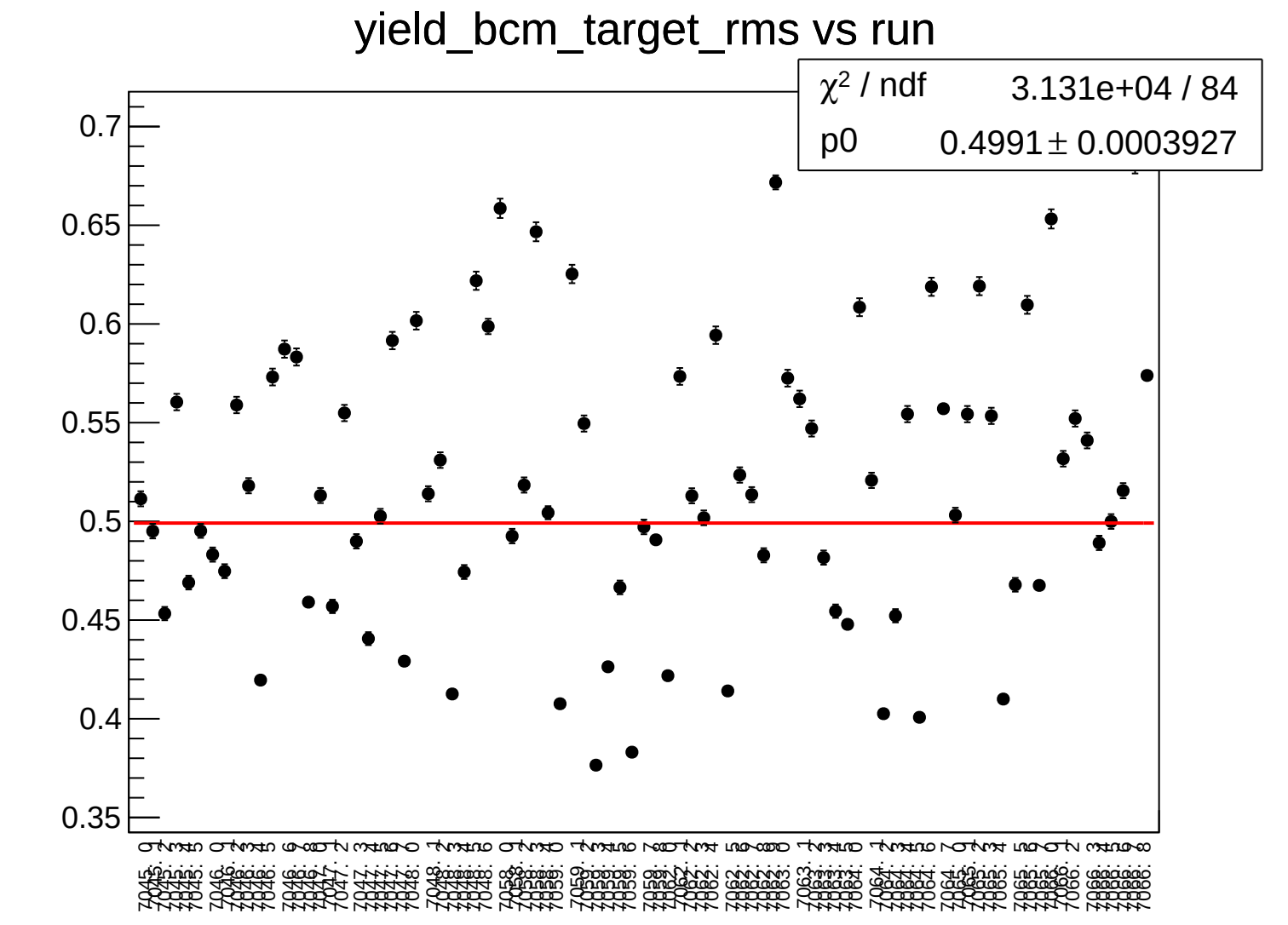

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.25 / 84
p0 −55.11 ± 33.33
pull
Entries 85
Mean −324.9
Std Dev 0

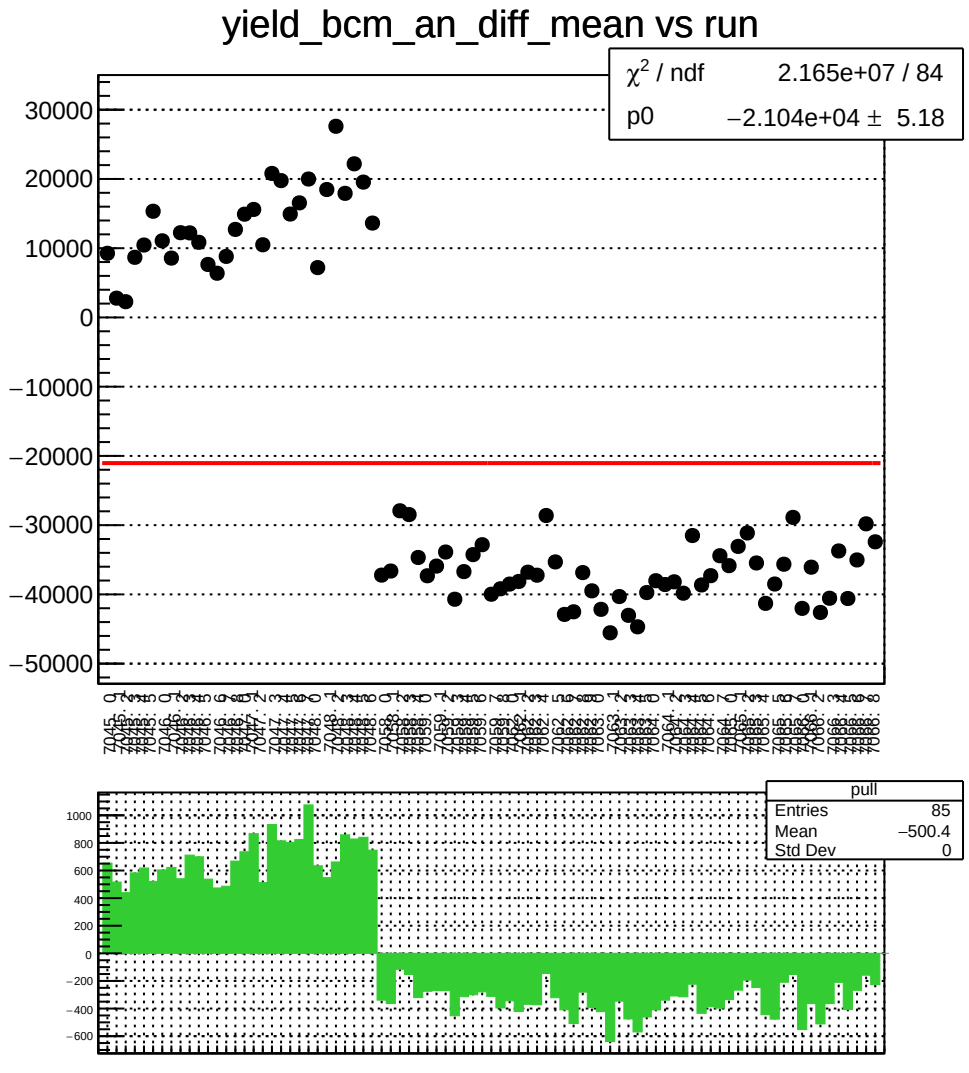

pull1D
Entries 85
Mean 0.006269
Std Dev 0.9595

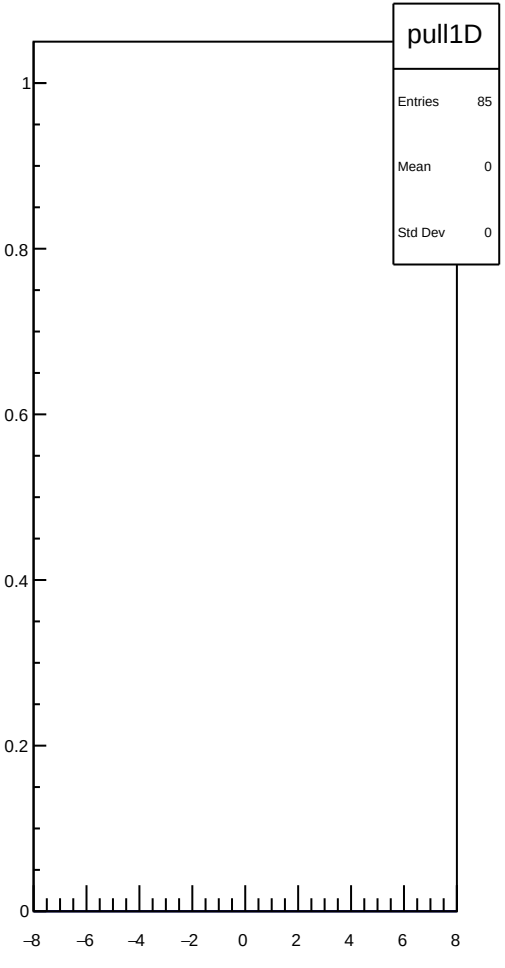

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2112 / 84
p0 30.23 ± 0.02357
36
35
34
33
32
31
30
29
28
27

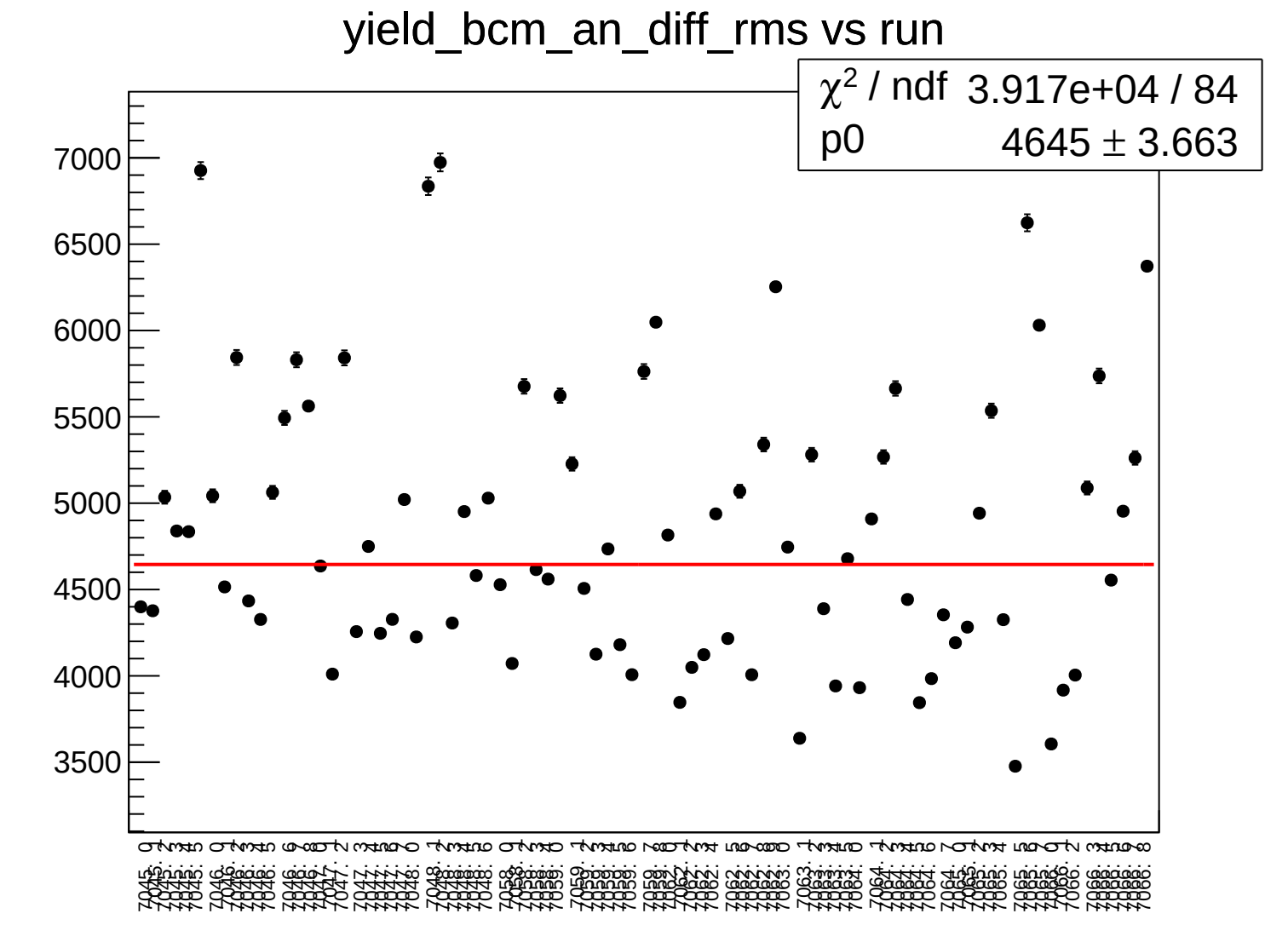

yield_bcm_target_mean vs run
χ² / ndf 1.59e+06 / 84
p0 147.9 ± 0.0005553
149
148.5
148
147.5
147
pull
Entries 85
Mean 1.488e+04
Std Dev 0
300
200
100
0
−100
−200

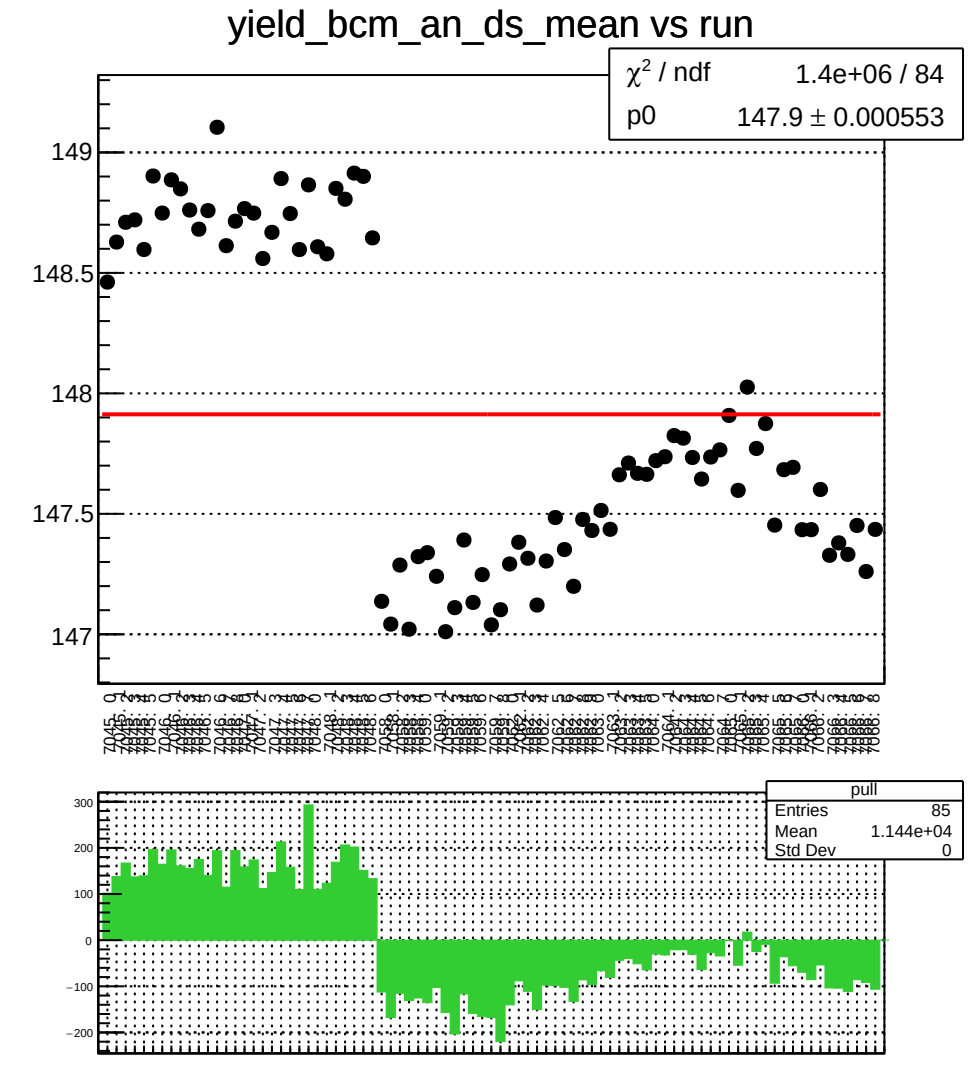

pull1D
Entries 85
Mean −7.026
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

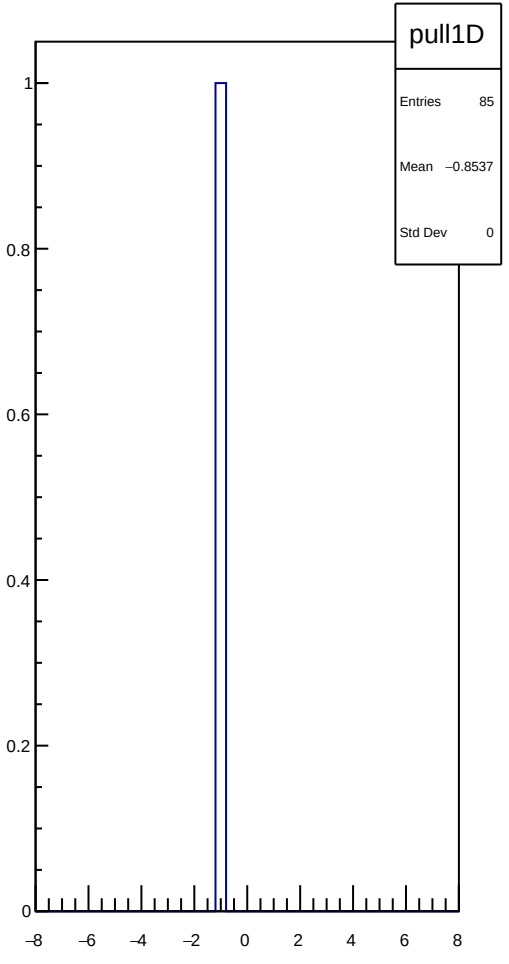

yield_bcm_target_rms vs run
χ² / ndf 3.131e+04 / 84
p0 0.4991 ± 0.0003927
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

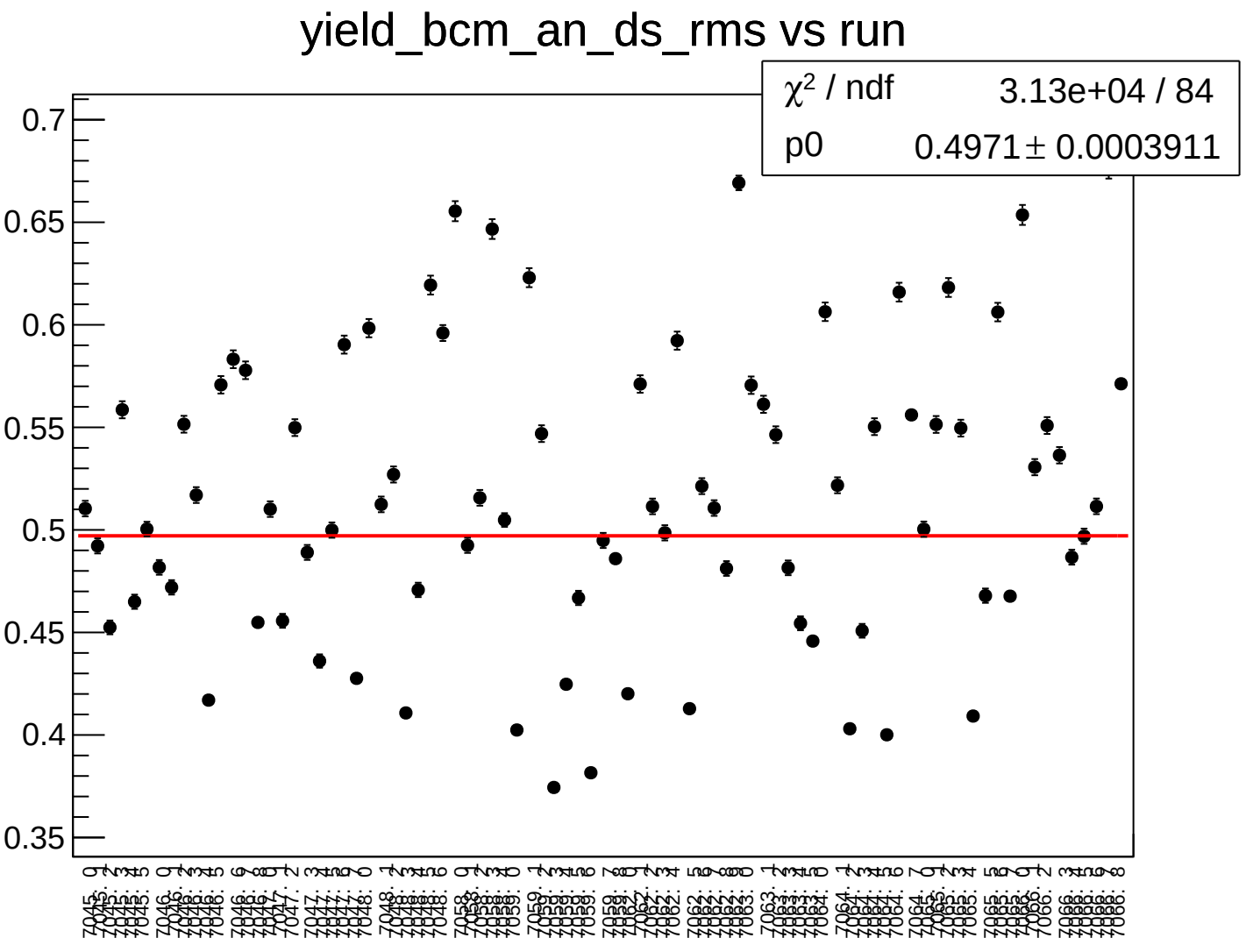

yield_bcm_an_diff_mean vs run
χ² / ndf 2.165e+07 / 84
p0 −2.104e+04 ± 5.18
pull
Entries 85
Mean −500.4
Std Dev 0

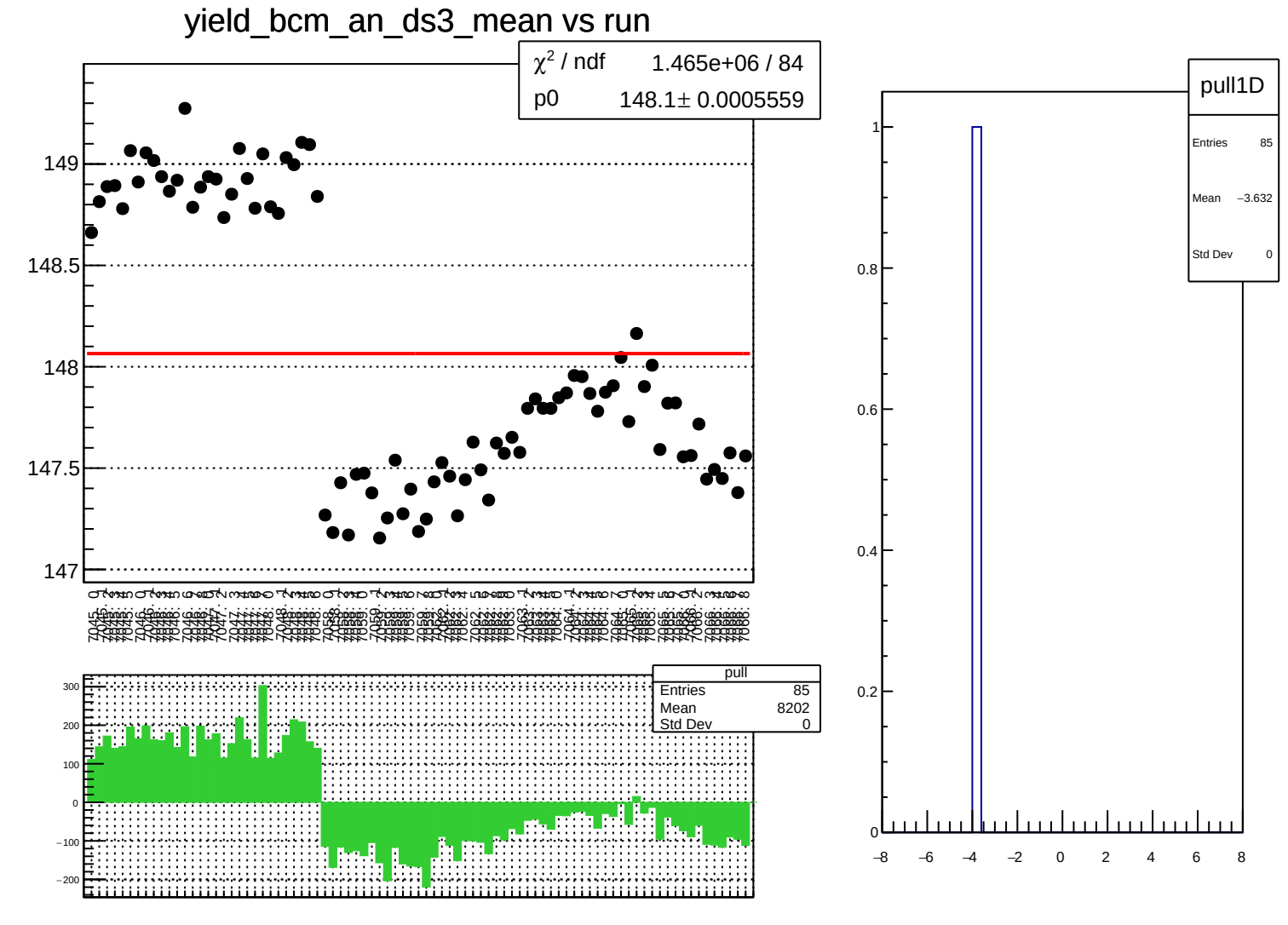

pull1D
Entries 85
Mean 0
Std Dev 0

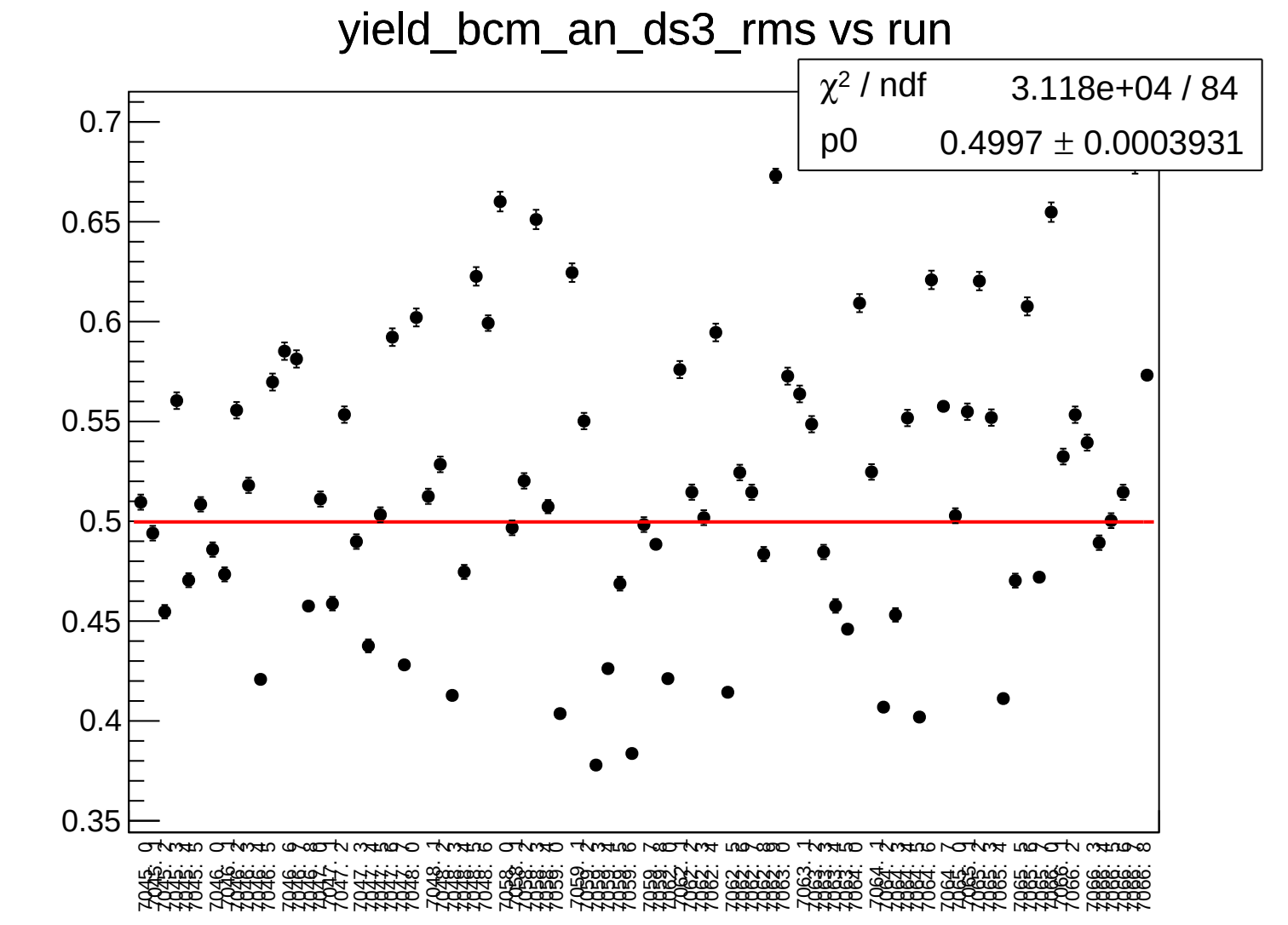

yield_bcm_an_diff_rms vs run
χ^2 / ndf 3.917e+04 / 84
p0 4645 ± 3.663
7000
6500
6000
5500
5000
4500
4000
3500

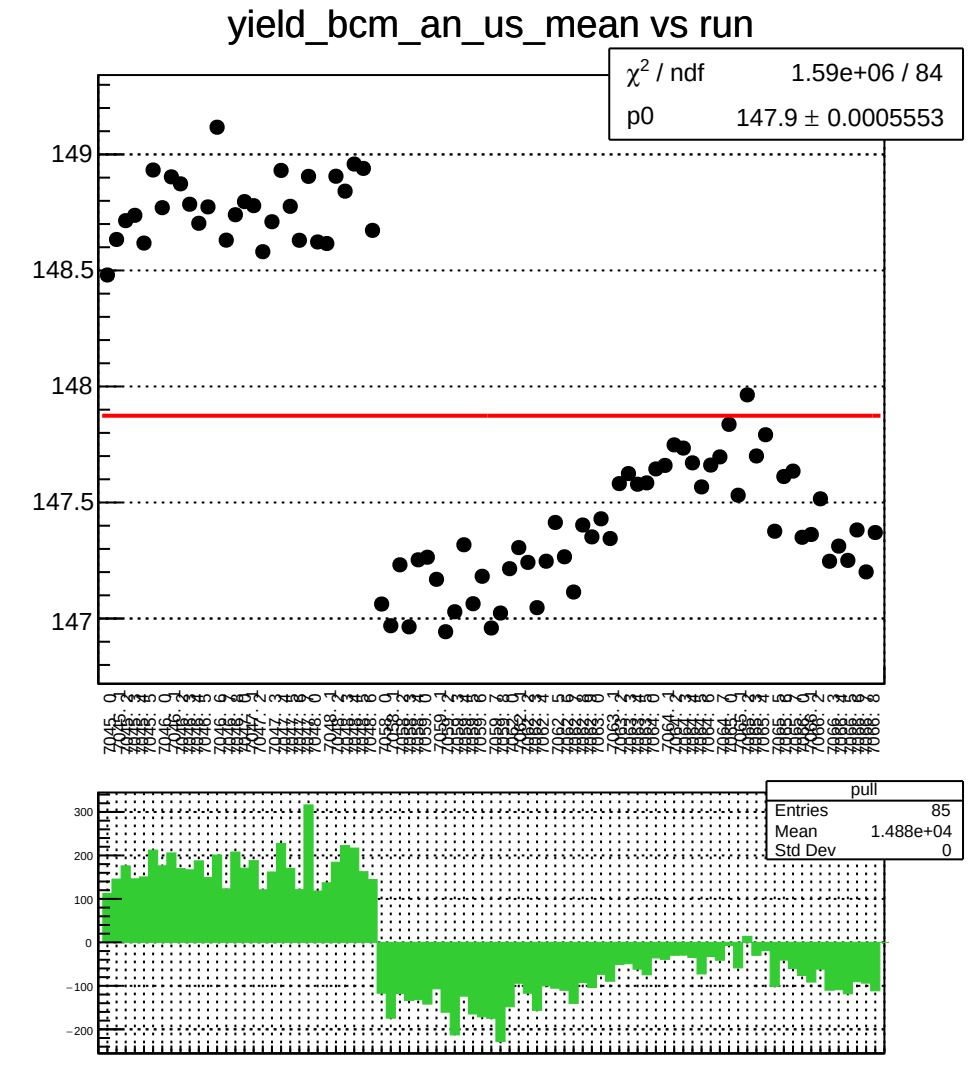

yield_bcm_an_ds_mean vs run
χ² / ndf 1.4e+06 / 84
p0 147.9 ± 0.000553
149
148.5
148
147.5
147
pull
Entries 85
Mean 1.144e+04
Std Dev 0
300
200
100
0
−100
−200

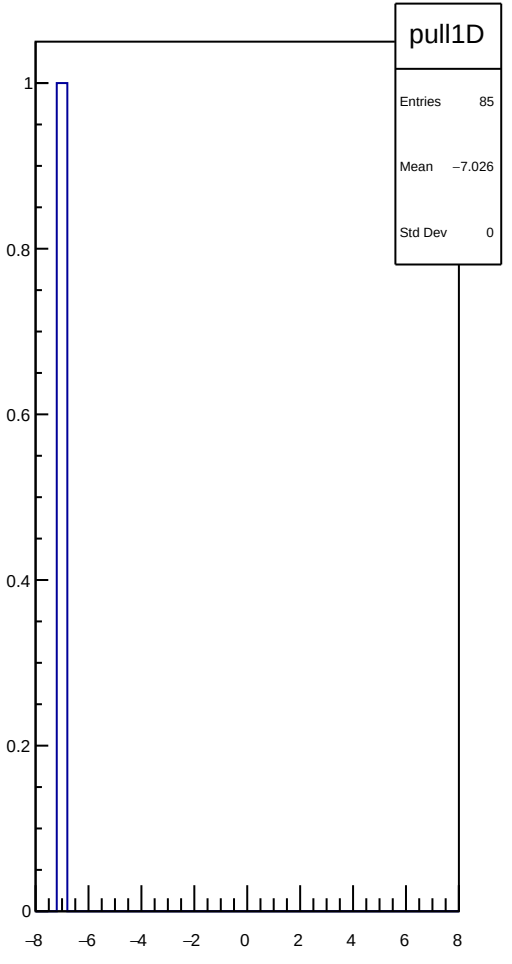

pull1D
Entries 85
Mean −0.8537
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

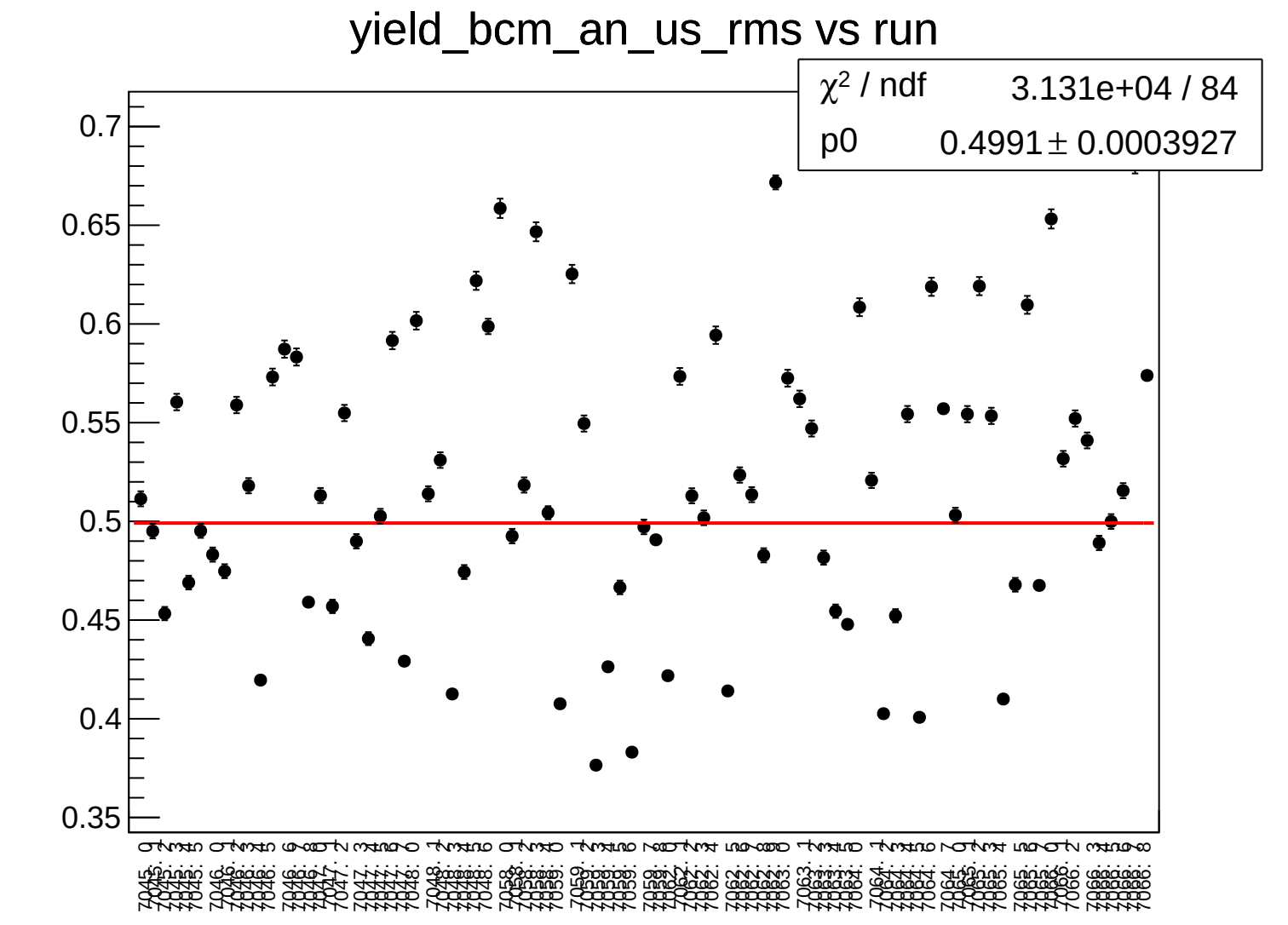

yield_bcm_an_ds_rms vs run
χ² / ndf 3.13e+04 / 84
p0 0.4971 ± 0.0003911
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

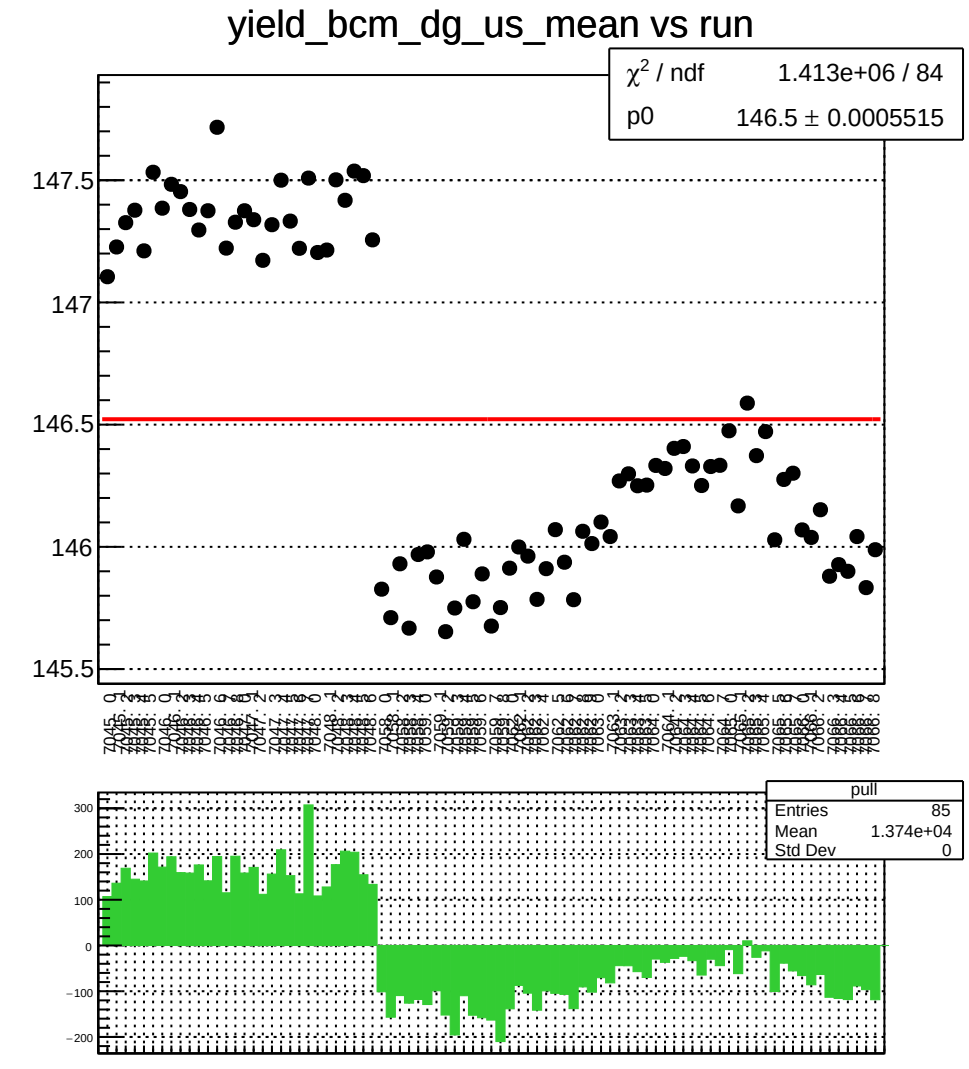

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.465e+06 / 84
p0 148.1± 0.0005559
149
148.5
148
147.5
147
pull
Entries 85
Mean 8202
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 85
Mean −3.632
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

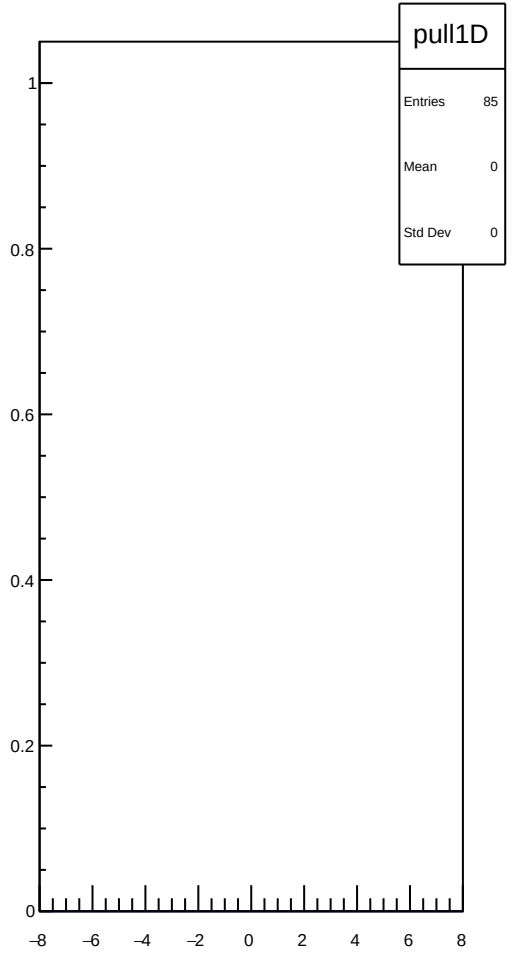

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.118e+04 / 84
p0 0.4997 ± 0.0003931
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

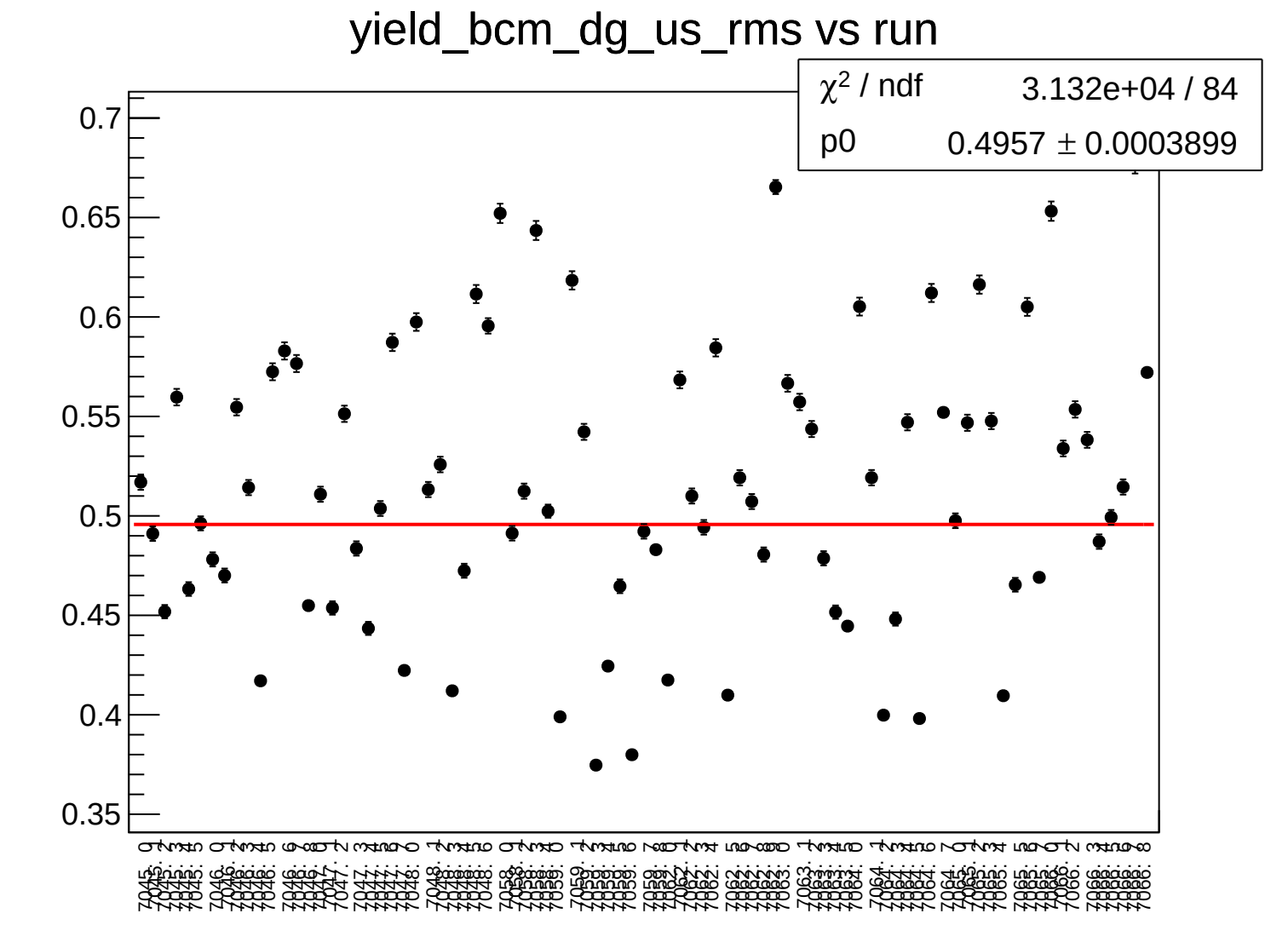

yield_bcm_an_us_mean vs run
χ² / ndf 1.59e+06 / 84
p0 147.9 ± 0.0005553
149
148.5
148
147.5
147
pull
Entries 85
Mean 1.488e+04
Std Dev 0
300
200
100
0
−100
−200

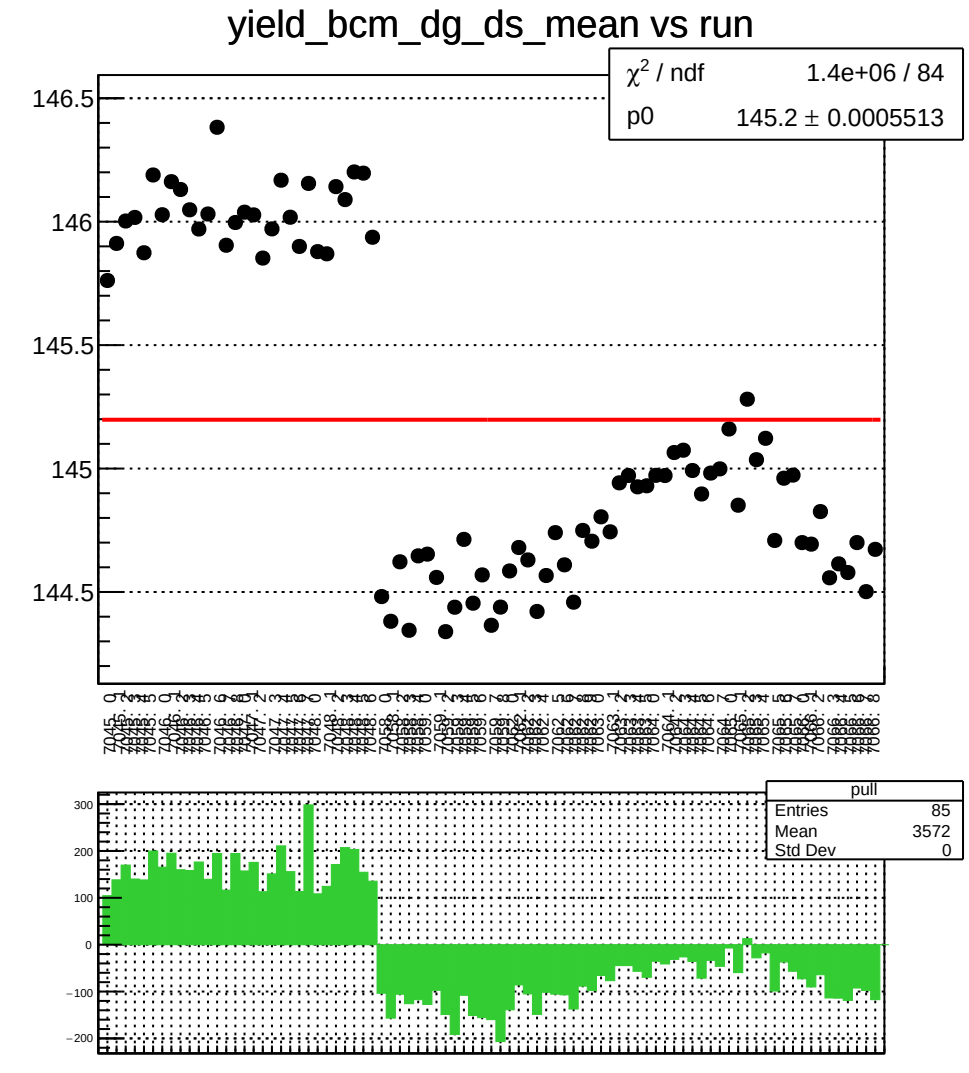

pull1D
Entries 85
Mean −7.026
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

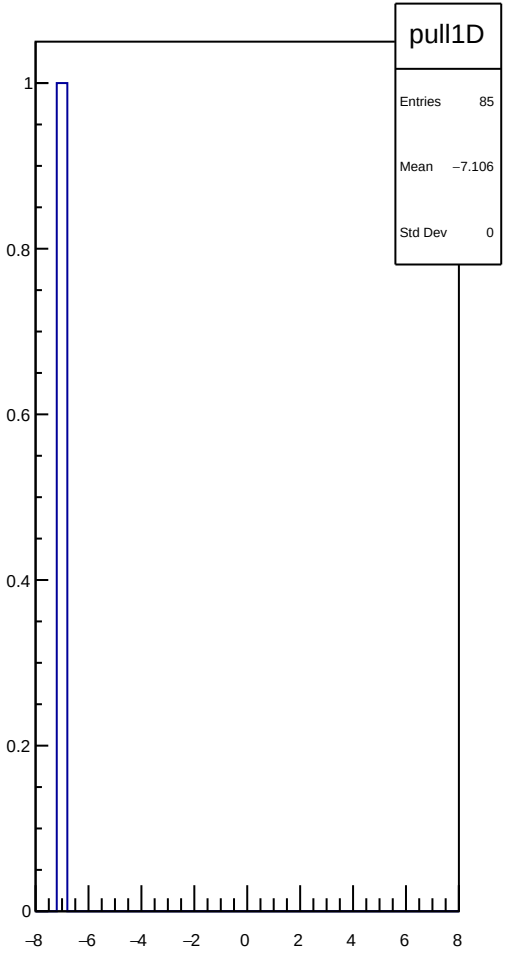

yield_bcm_an_us_rms vs run
χ² / ndf 3.131e+04 / 84
p0 0.4991 ± 0.0003927
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

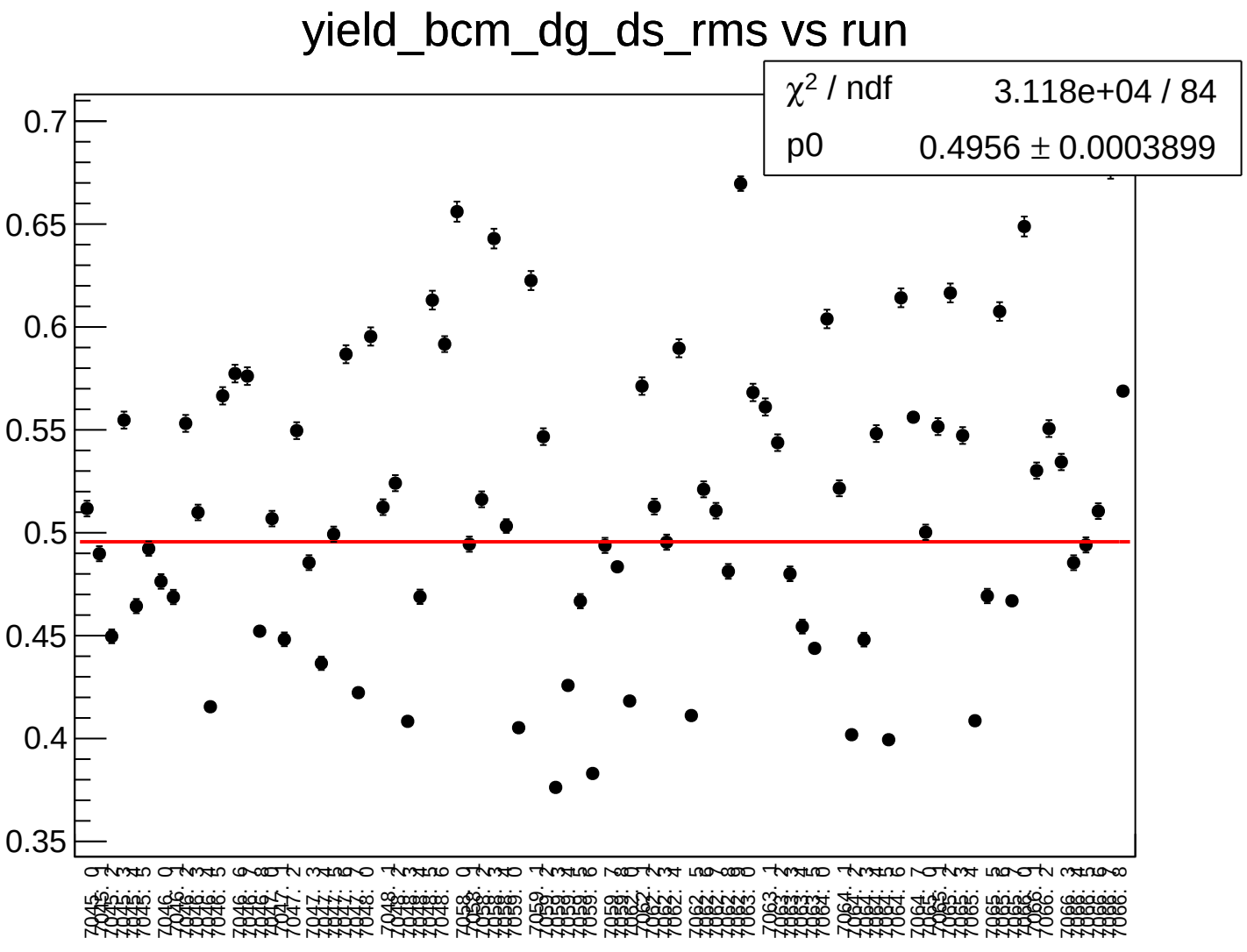

yield_bcm_dg_us_mean vs run
χ² / ndf 1.413e+06 / 84
p0 146.5 ± 0.0005515
147.5
147
146.5
146
145.5
pull
Entries 85
Mean 1.374e+04
Std Dev 0
300
200
100
0
−100
−200

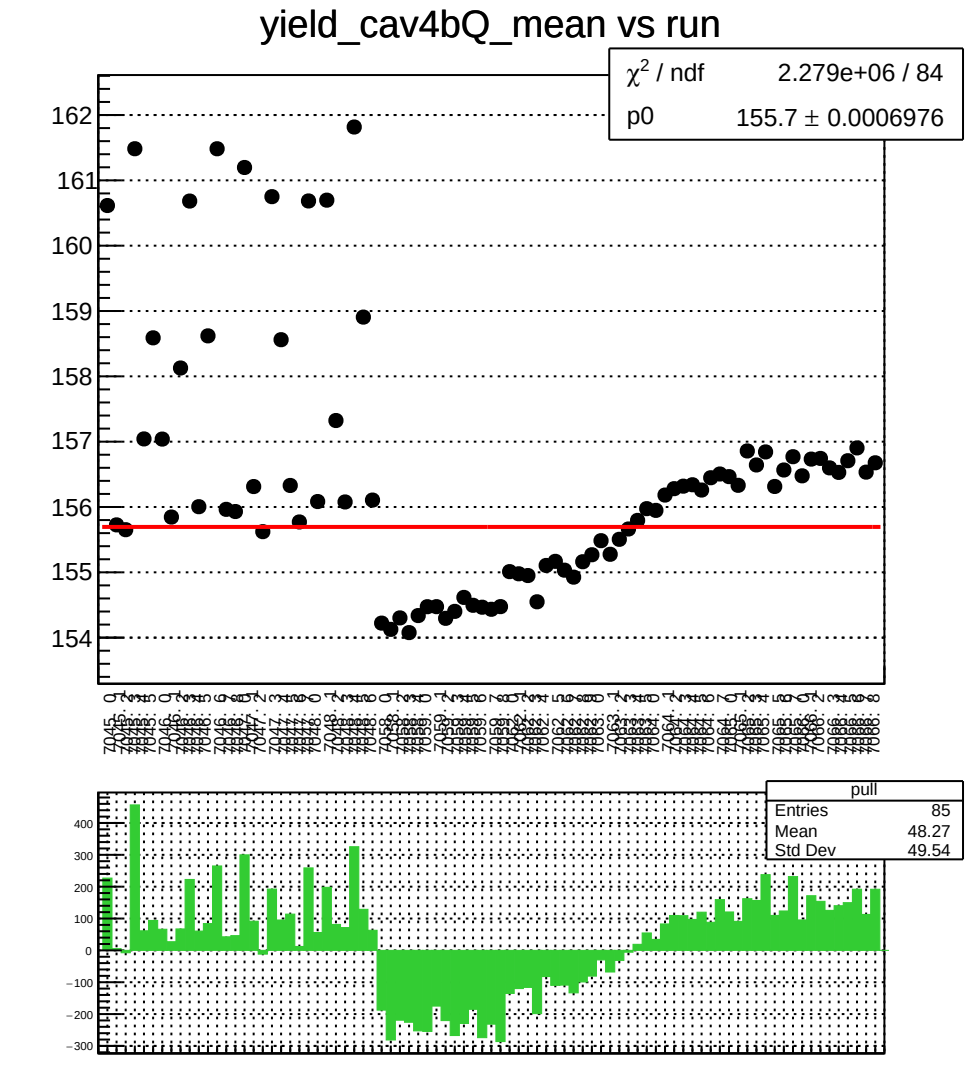

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

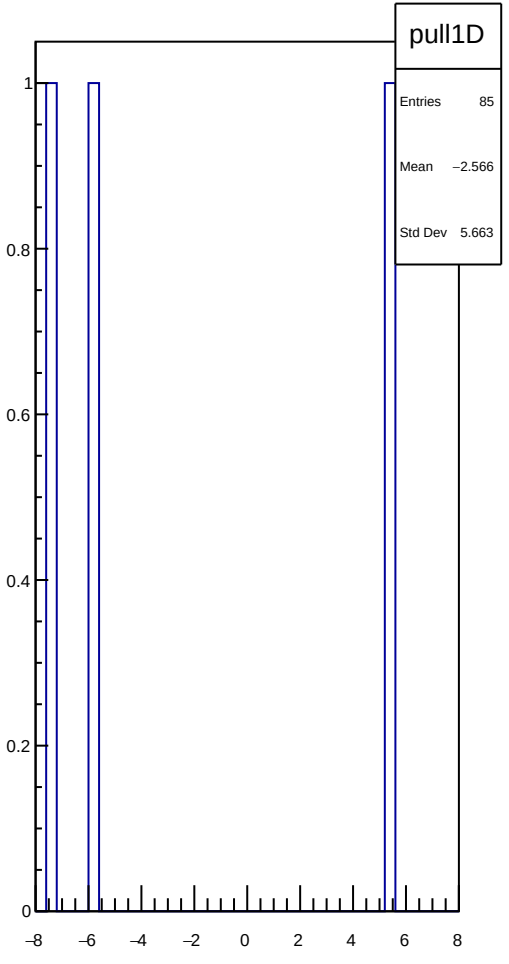

yield_bcm_dg_us_rms vs run
χ² / ndf 3.132e+04 / 84
p0 0.4957 ± 0.0003899
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

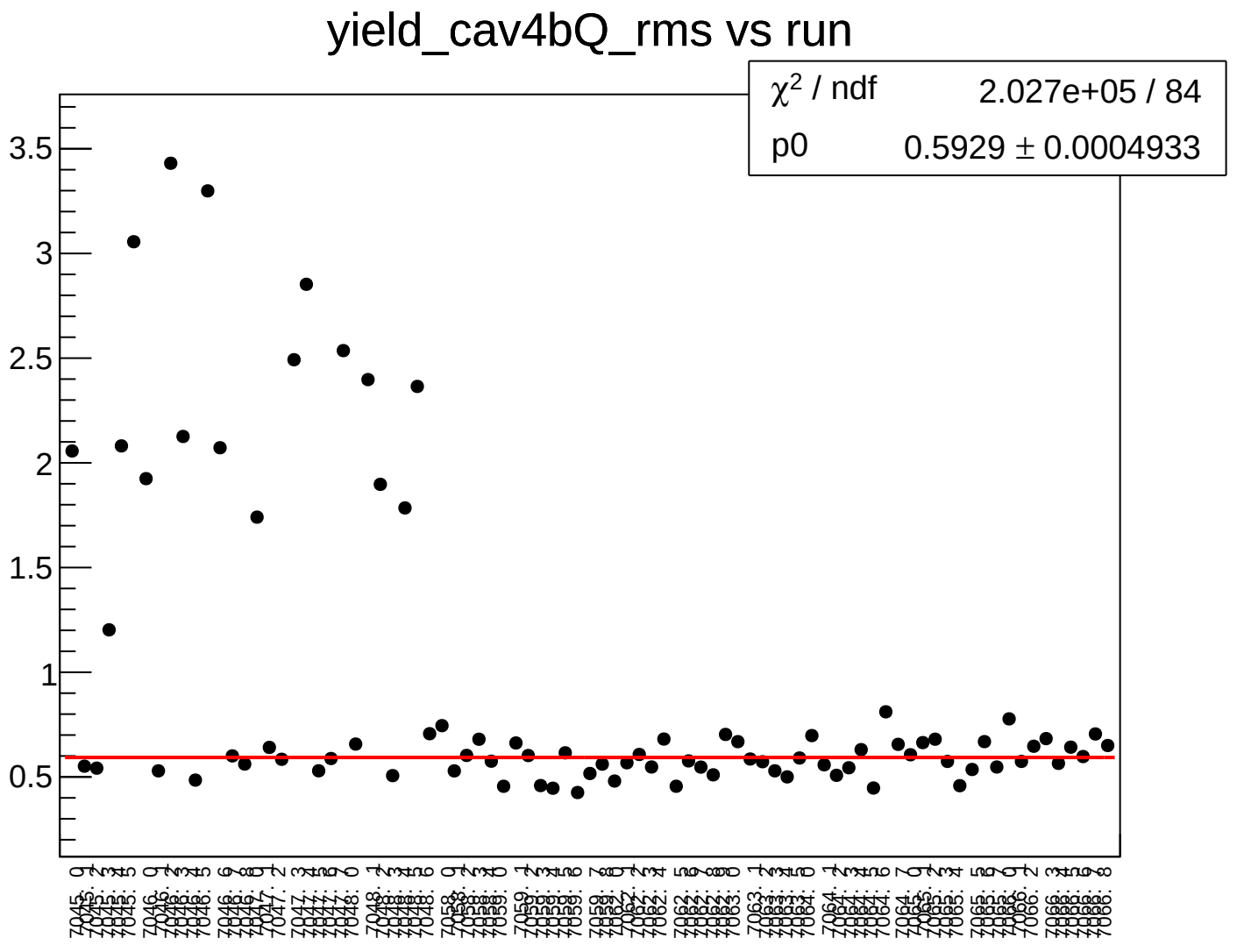

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.4e+06 / 84
p0 145.2 ± 0.0005513
146.5
146
145.5
145
144.5
pull
Entries 85
Mean 3572
Std Dev 0
300
200
100
0
−100
−200

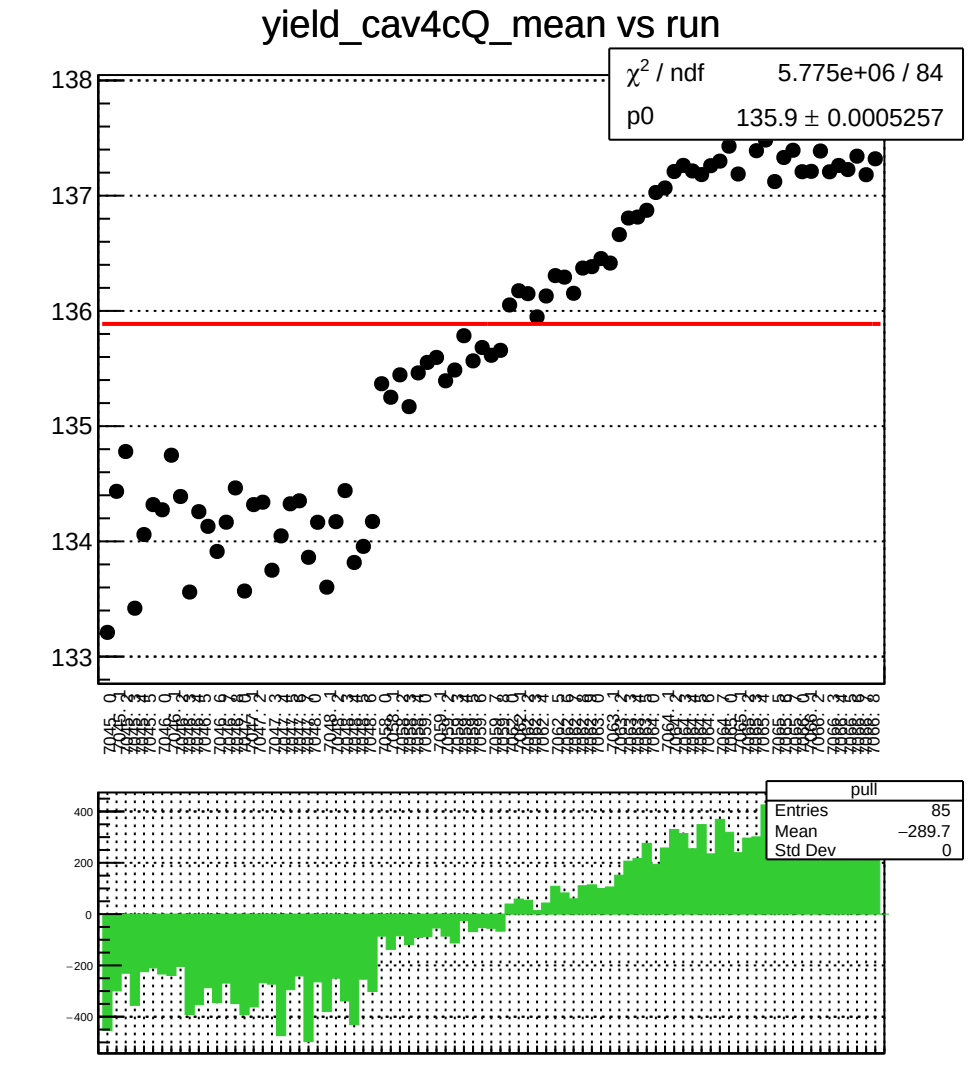

pull1D
Entries 85
Mean −7.106
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

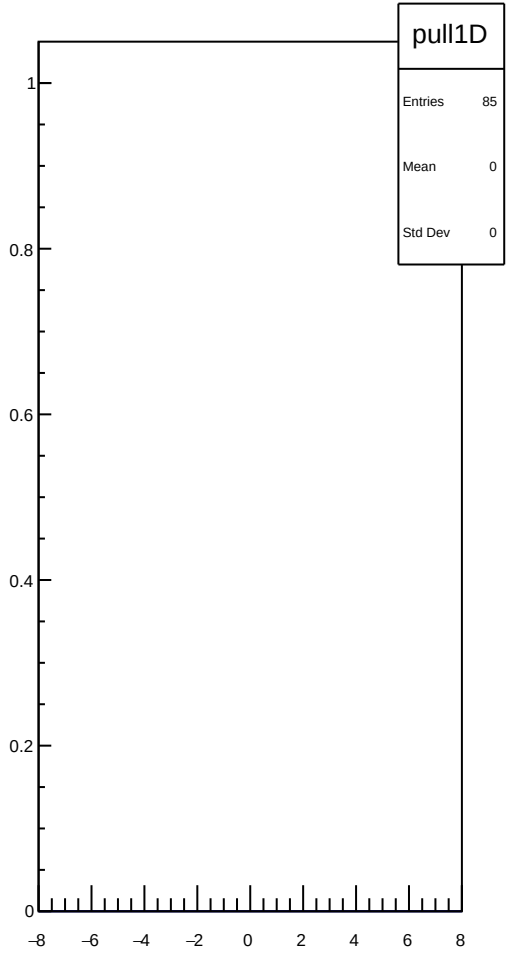

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.118e+04 / 84
p0 0.4956 ± 0.0003899
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

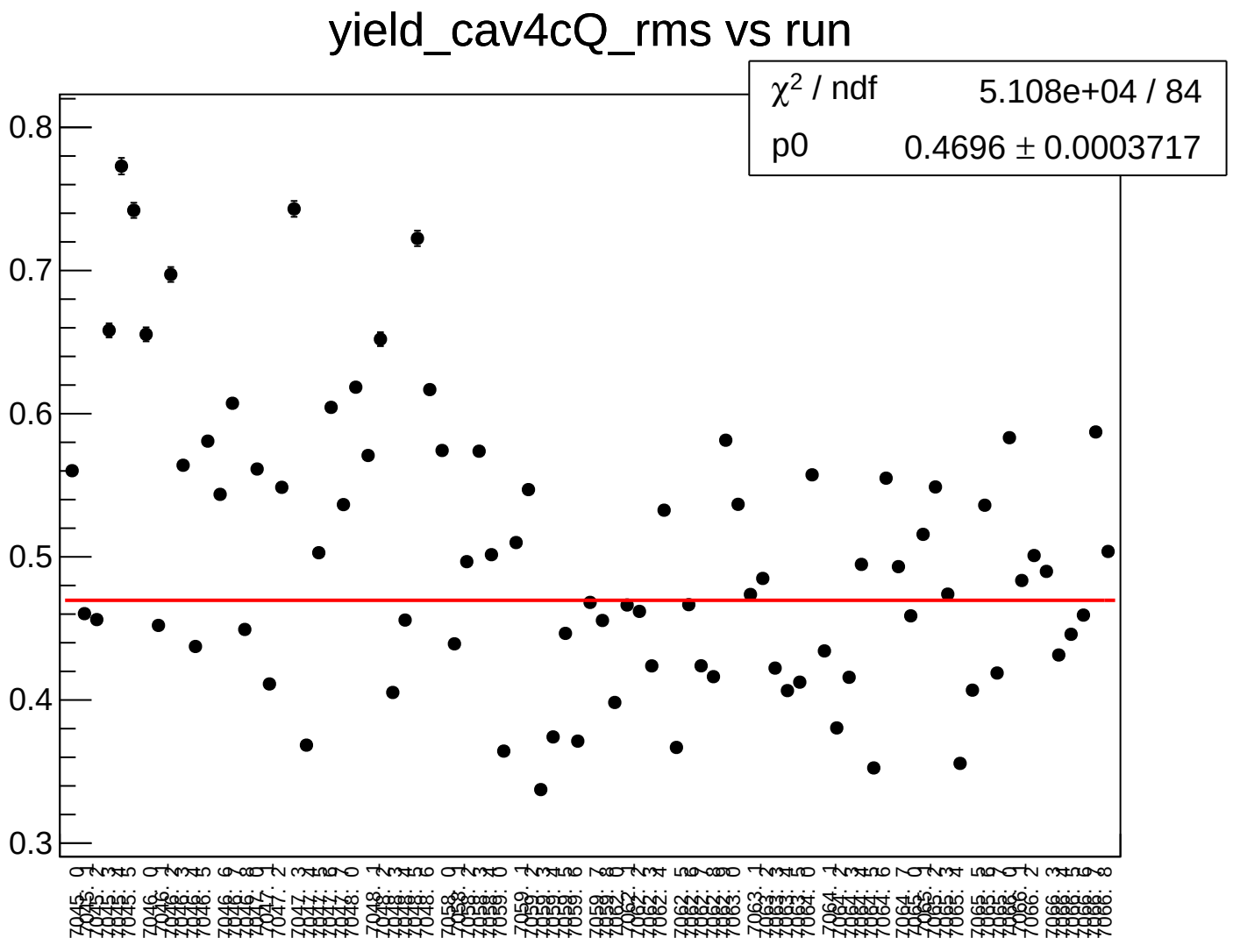

yield_cav4bQ_mean vs run
χ² / ndf 2.279e+06 / 84
p0 155.7 ± 0.0006976
pull
Entries 85
Mean 48.27
Std Dev 49.54

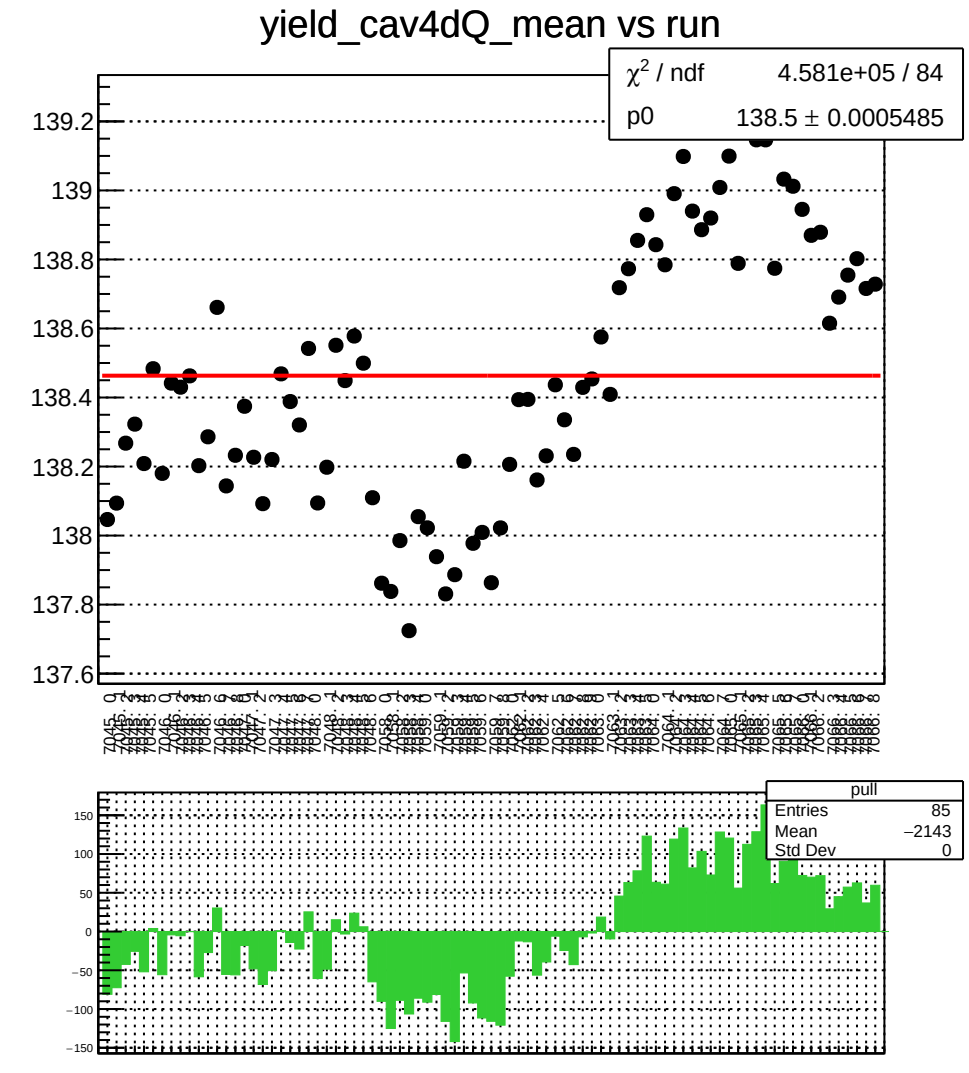

pull1D
Entries 85
Mean −2.566
Std Dev 5.663

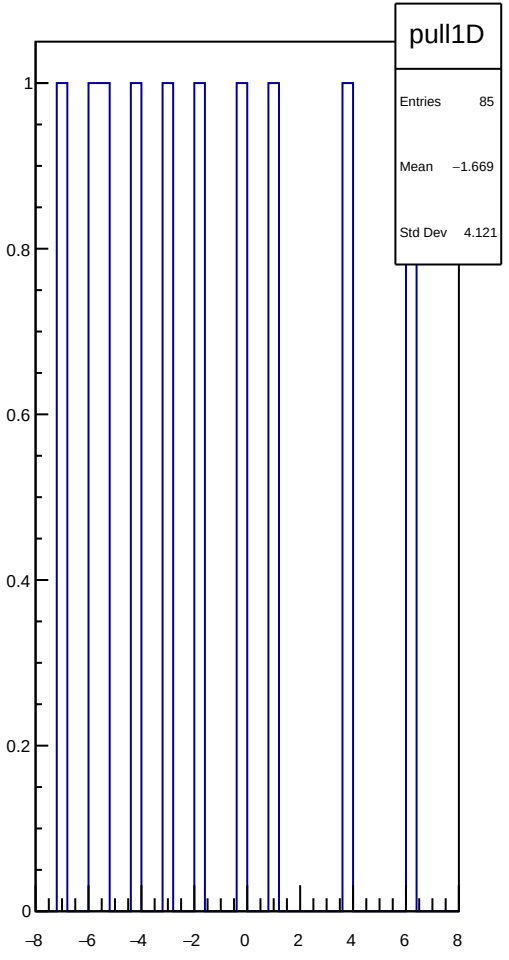

yield_cav4bQ_rms vs run
χ² / ndf 2.027e+05 / 84
p0 0.5929 ± 0.0004933
3.5
3
2.5
2
1.5
1
0.5

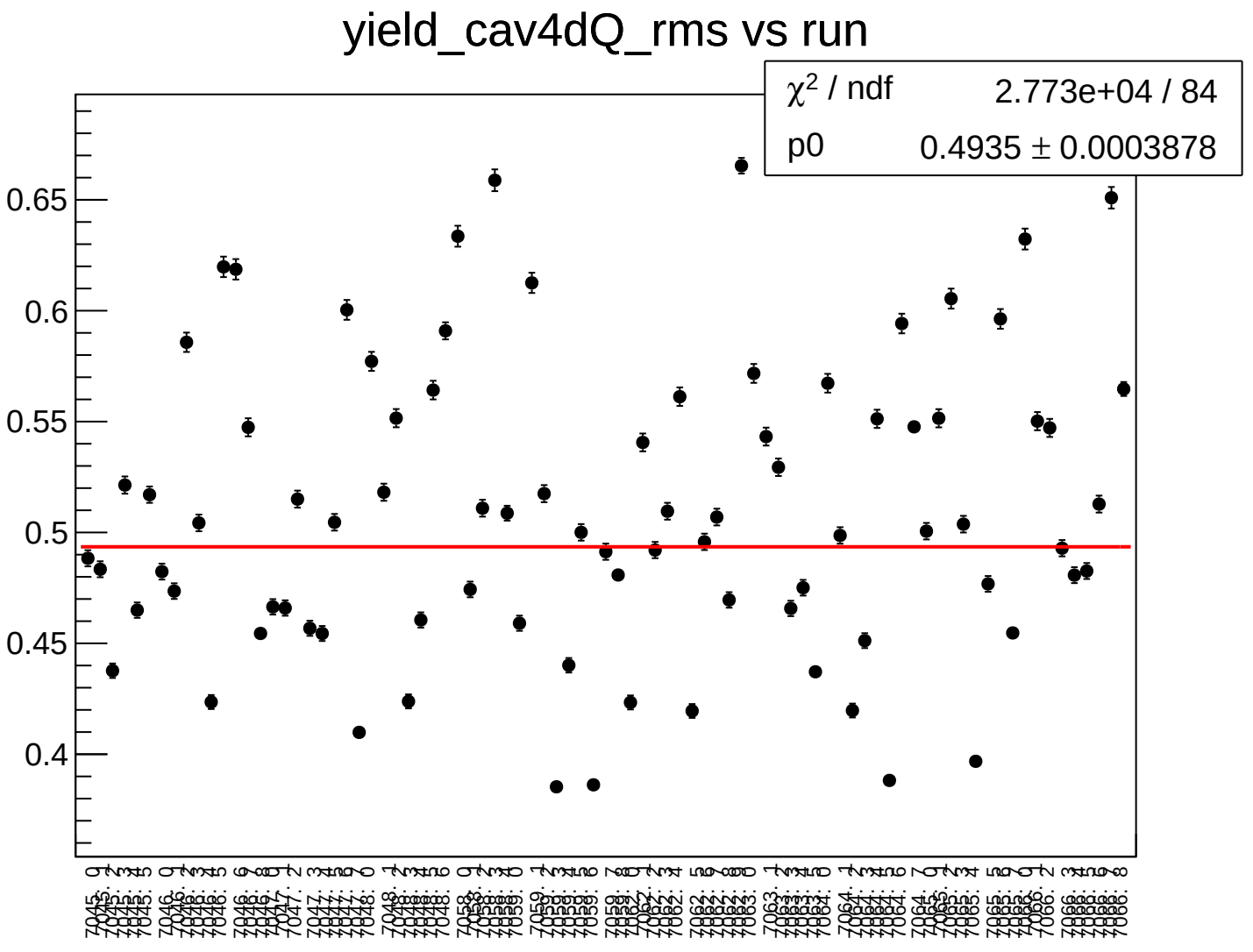

yield_cav4cQ_mean vs run
χ² / ndf 5.775e+06 / 84
p0 135.9 ± 0.0005257
138
137
136
135
134
133
pull
Entries 85
Mean −289.7
Std Dev 0
400
200
0
−200
−400

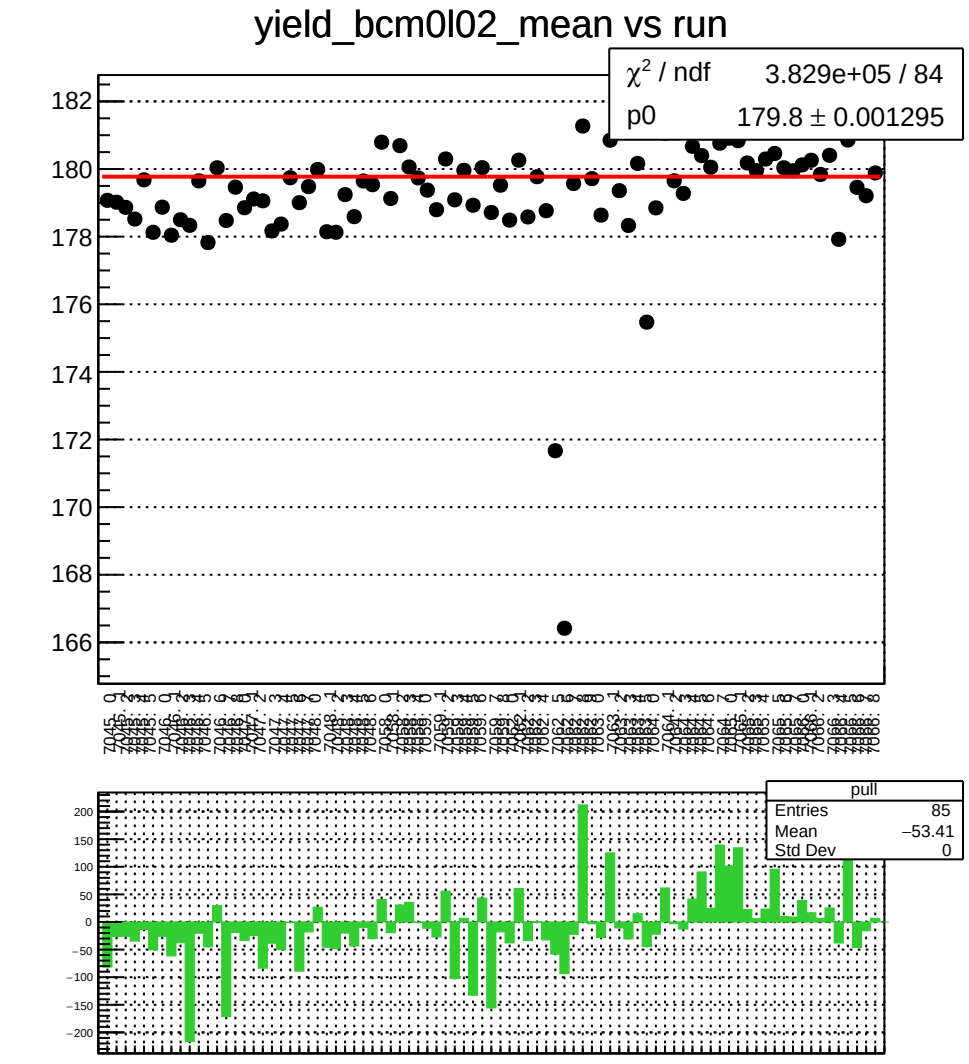

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

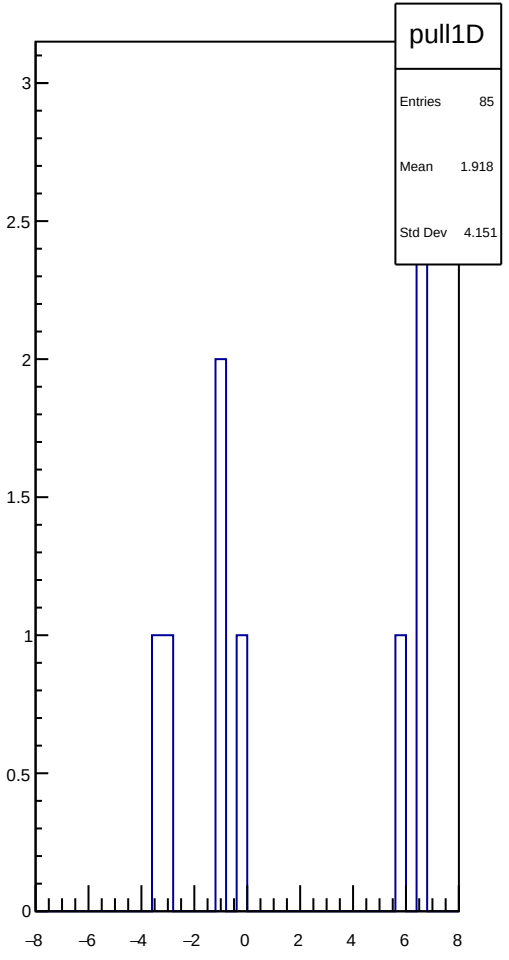

yield_cav4cQ_rms vs run
χ² / ndf 5.108e+04 / 84
p0 0.4696 ± 0.0003717
0.8
0.7
0.6
0.5
0.4
0.3

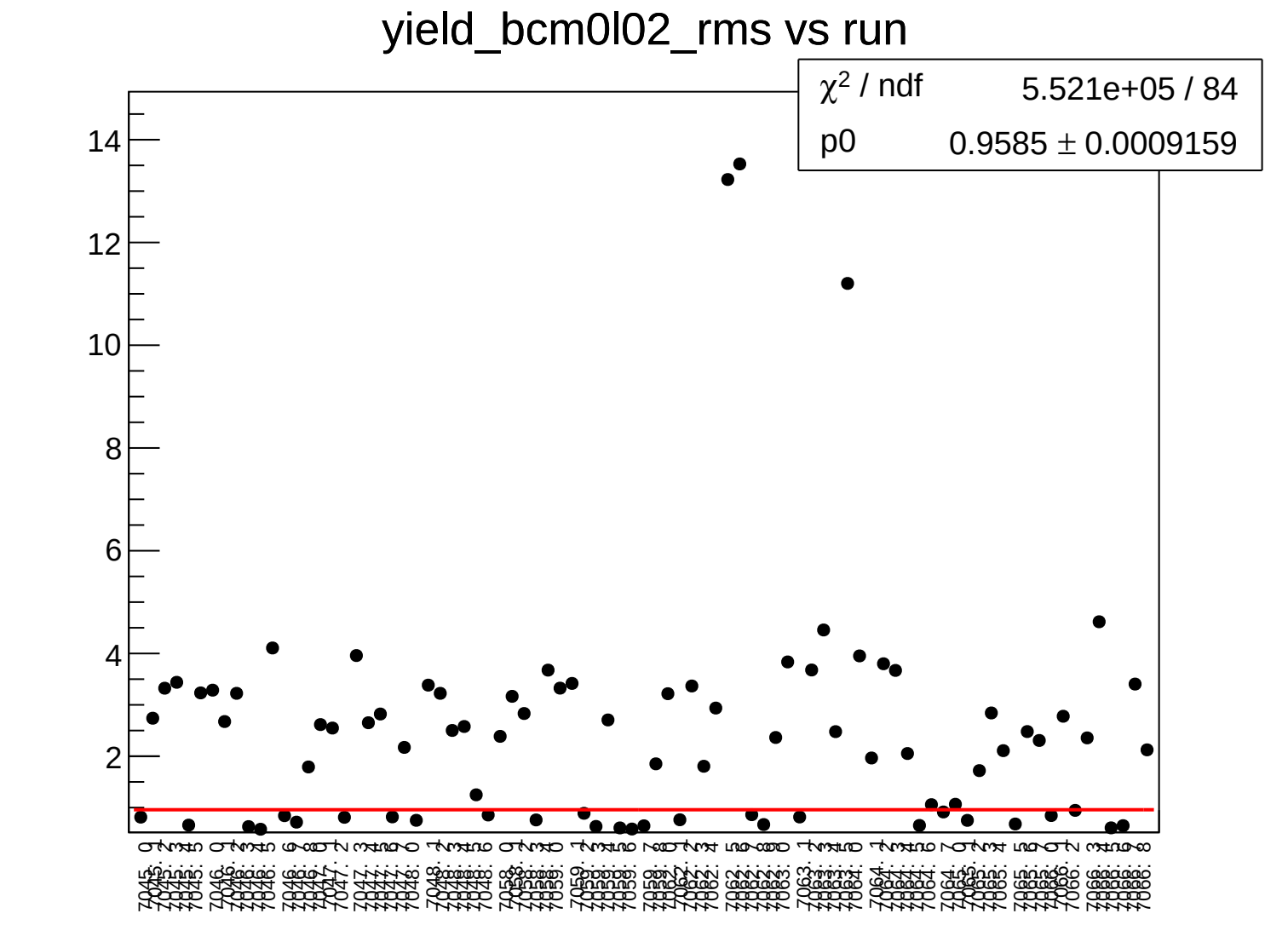

yield_cav4dQ_mean vs run
χ² / ndf 4.581e+05 / 84
p0 138.5 ± 0.0005485
pull
Entries 85
Mean −2143
Std Dev 0

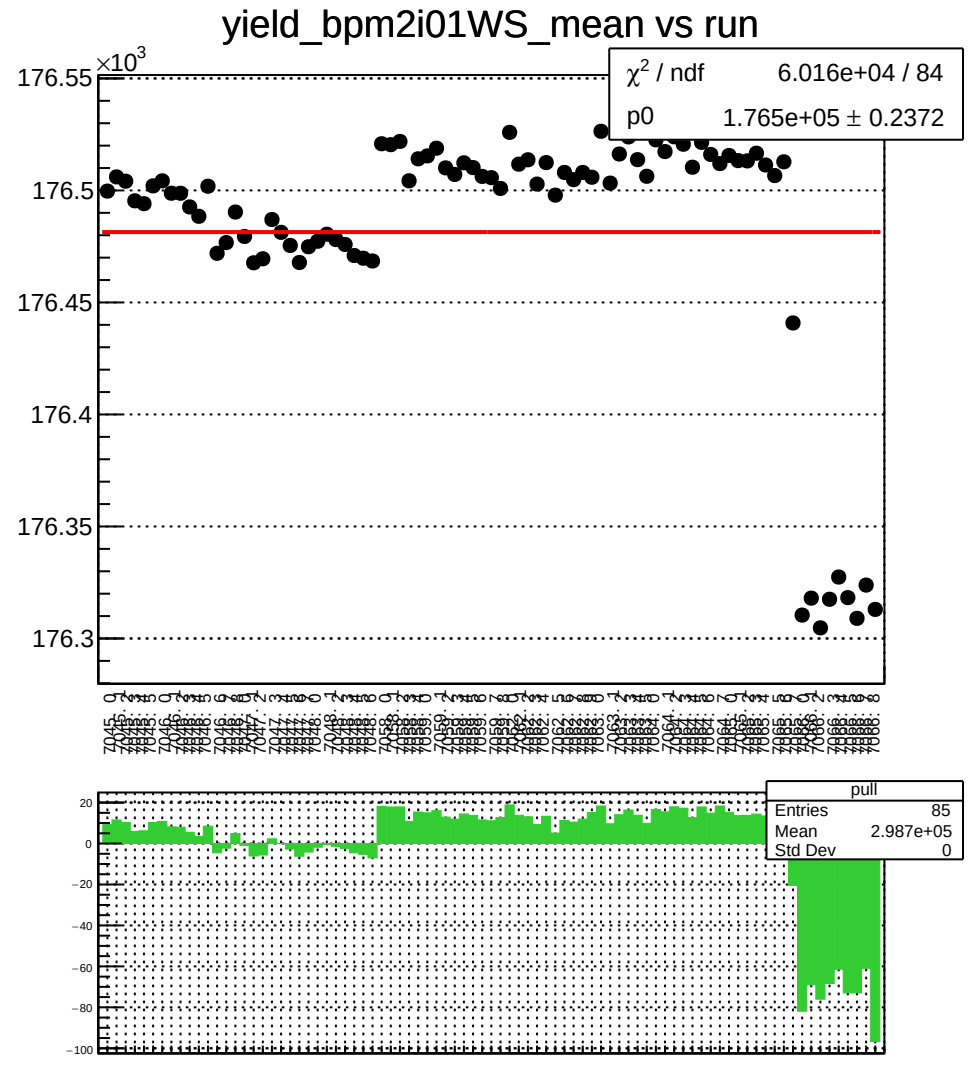

pull1D
Entries 85
Mean −1.669
Std Dev 4.121

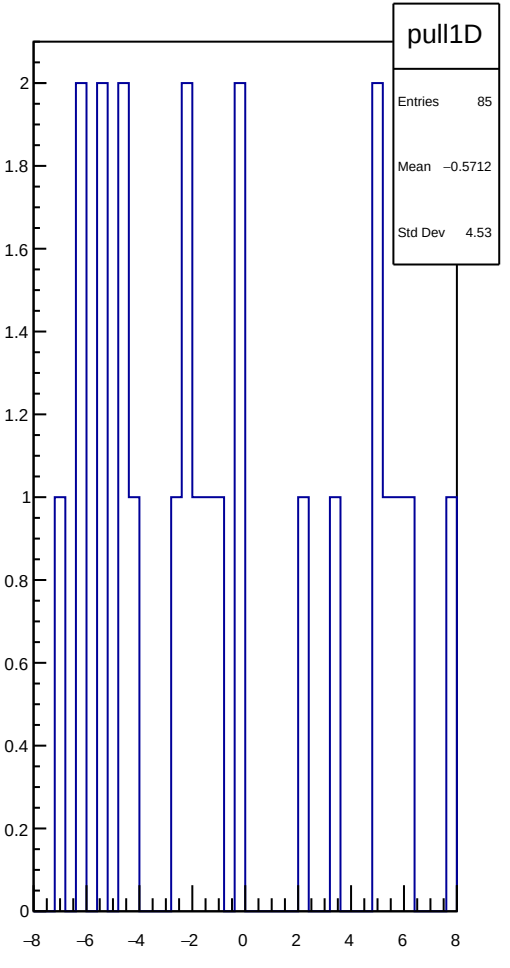

yield_cav4dQ_rms vs run
χ² / ndf 2.773e+04 / 84
p0 0.4935 ± 0.0003878
0.65
0.6
0.55
0.5
0.45
0.4

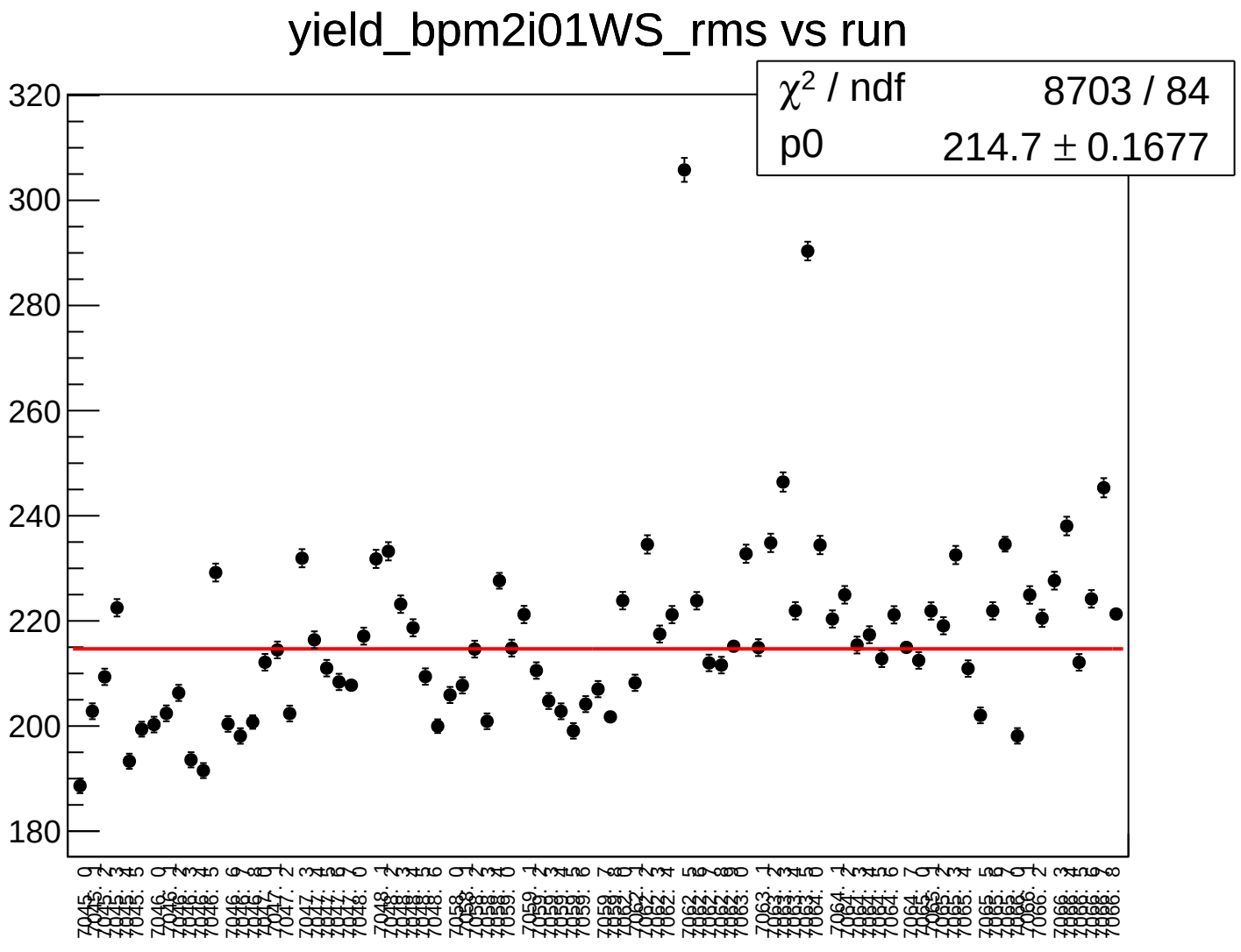

yield_bcm0l02_mean vs run
χ² / ndf 3.829e+05 / 84
p0 179.8 ± 0.001295
182
180
178
176
174
172
170
168
166
pull
Entries 85
Mean −53.41
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

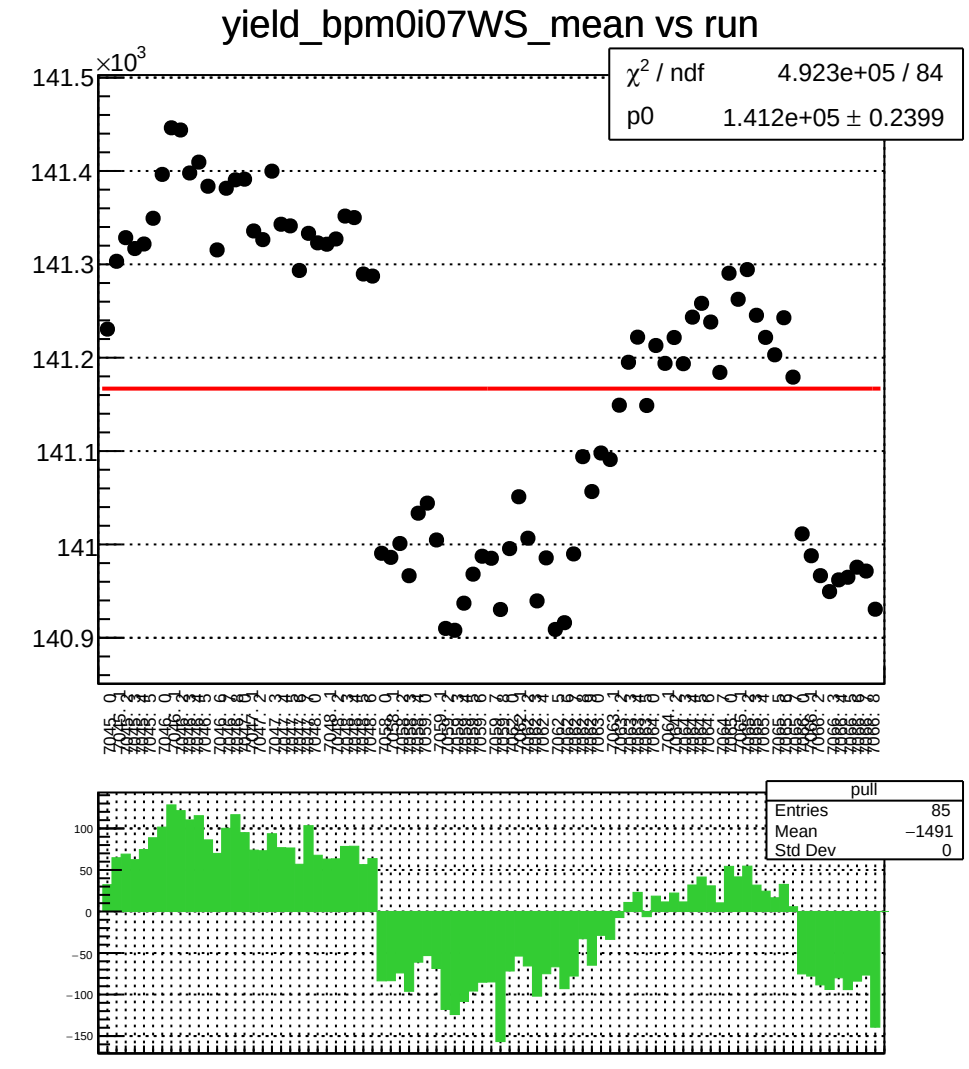

pull1D
Entries 85
Mean 1.918
Std Dev 4.151
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

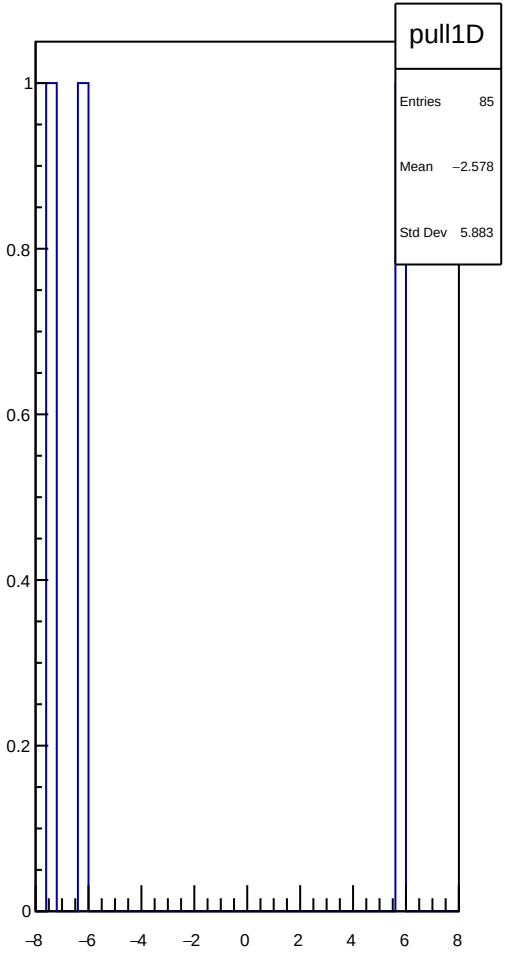

yield_bcm0l02_rms vs run
χ² / ndf 5.521e+05 / 84
p0 0.9585 ± 0.0009159
14
12
10
8
6
4
2

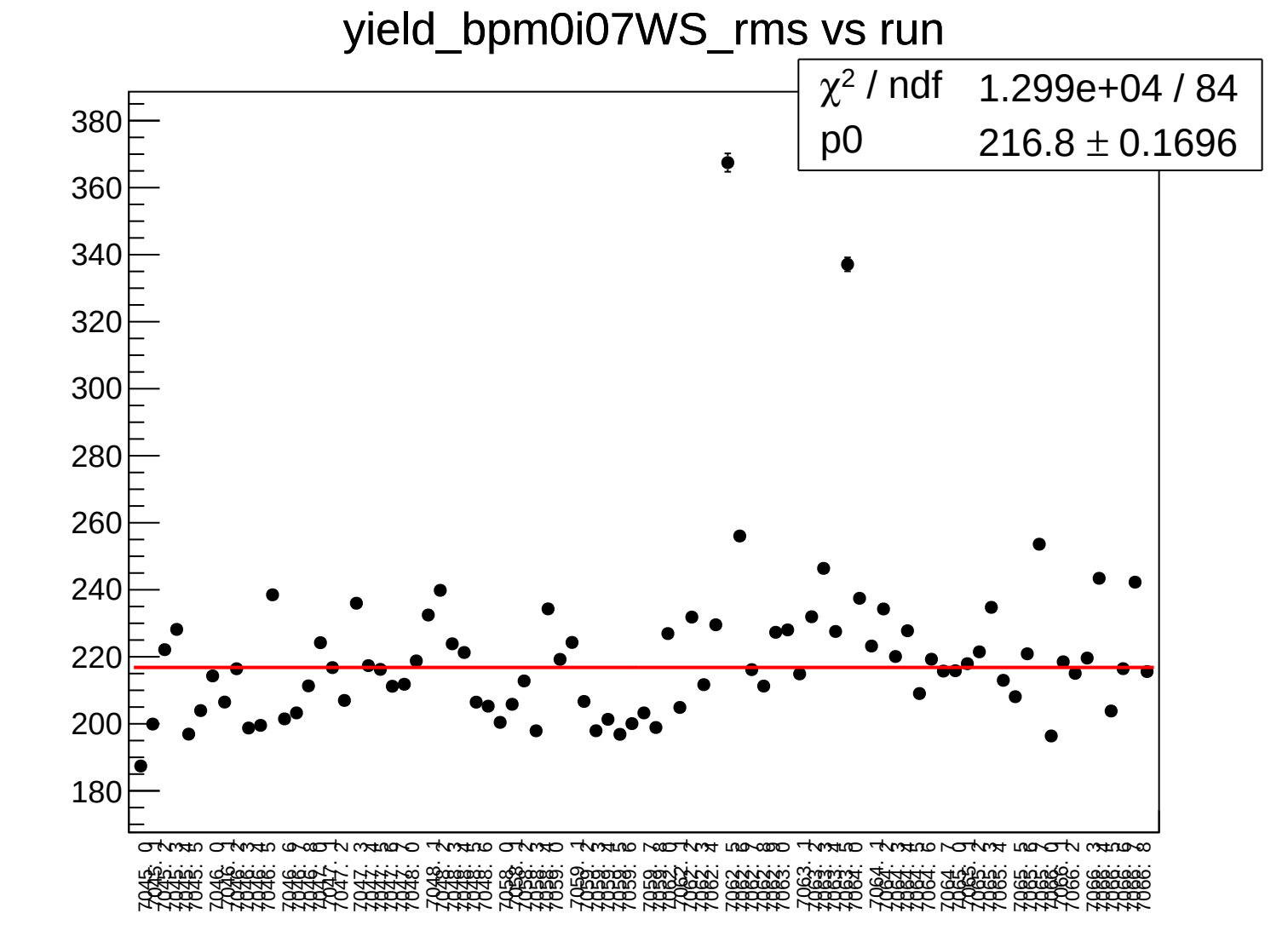

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 6.016e+04 / 84
p0 1.765e+05 ± 0.2372
176.55
176.5
176.45
176.4
176.35
176.3
pull
Entries 85
Mean 2.987e+05
Std Dev 0
20
0
−20
−40
−60
−80
−100

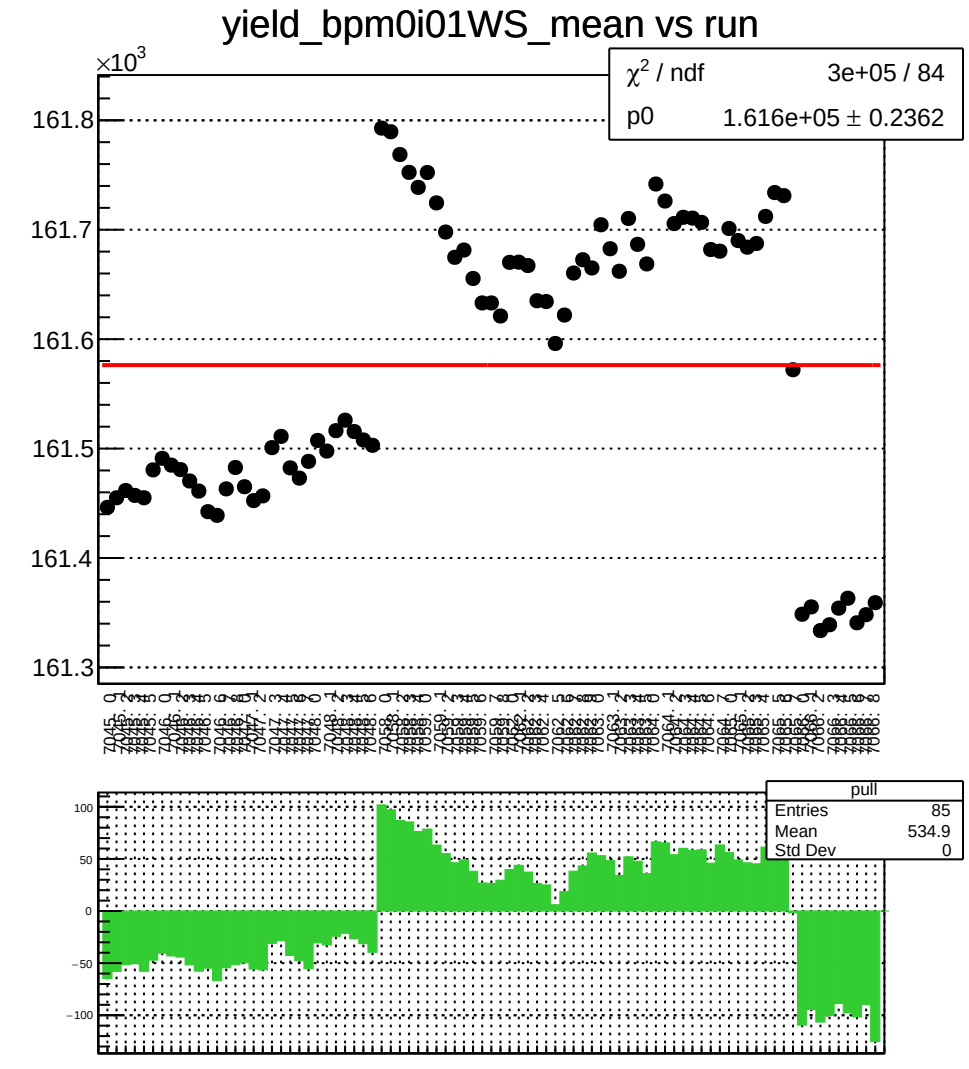

pull1D
Entries 85
Mean −0.5712
Std Dev 4.53
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

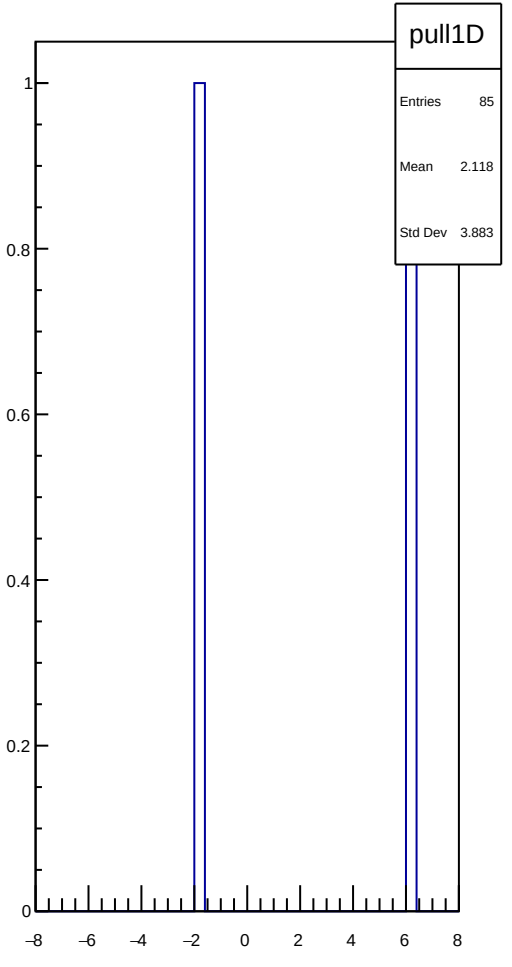

yield_bpm2i01WS_rms vs run
χ² / ndf 8703 / 84
p0 214.7 ± 0.1677
320
300
280
260
240
220
200
180

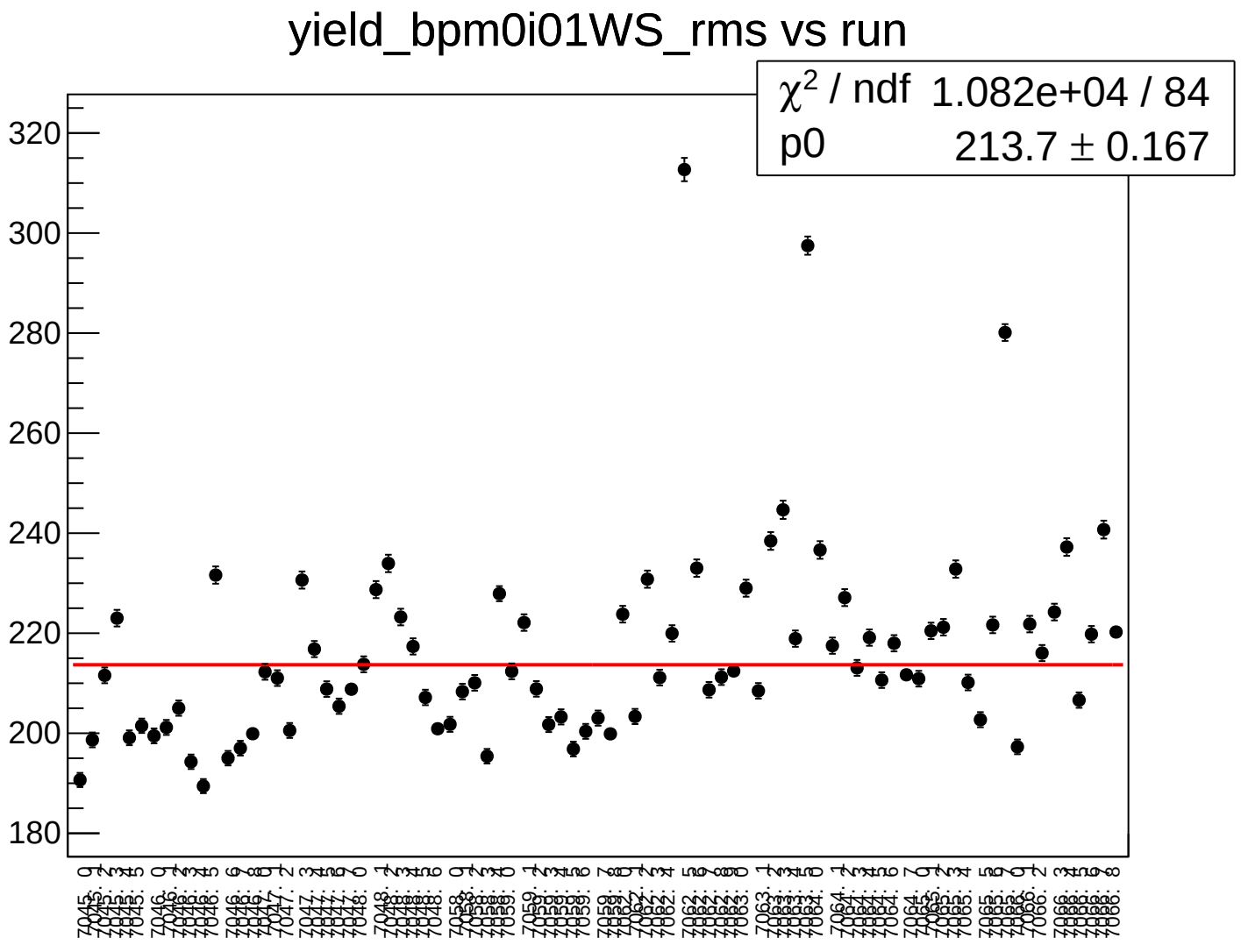

yield_bpm0i07WS_mean vs run
χ² / ndf 4.923e+05 / 84
p0 1.412e+05 ± 0.2399
×10³
141.5
141.4
141.3
141.2
141.1
141
140.9
pull
Entries 85
Mean −1491
Std Dev 0
100
50
0
−50
−100
−150

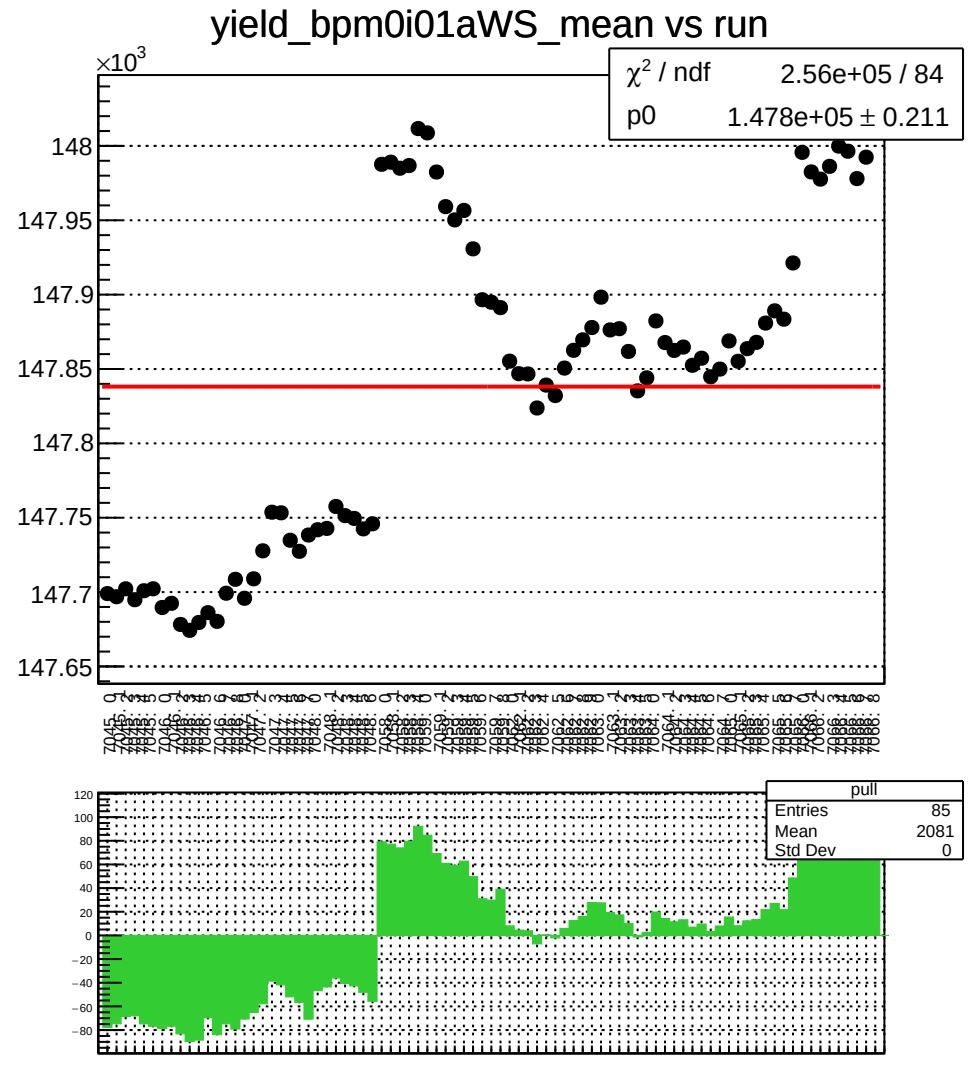

pull1D
Entries 85
Mean −2.578
Std Dev 5.883
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

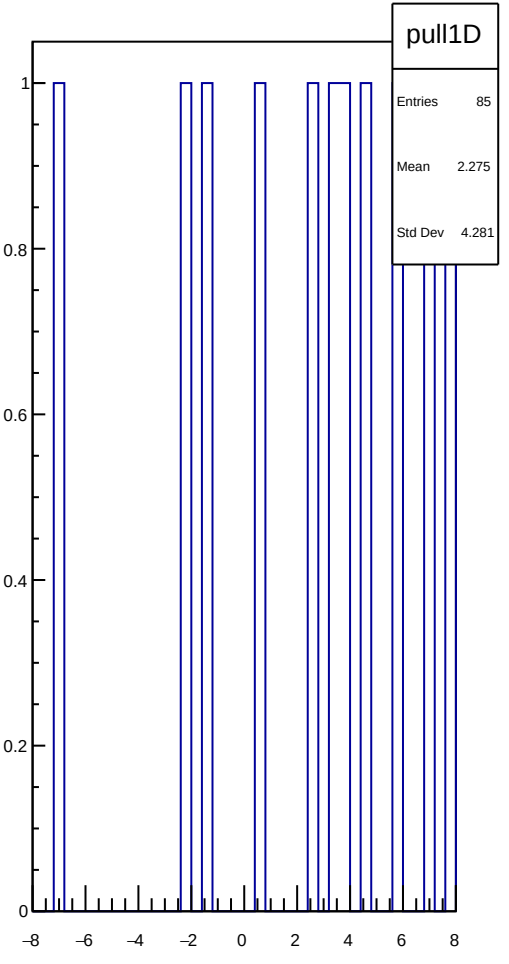

yield_bpm0i07WS_rms vs run
χ² / ndf 1.299e+04 / 84
p0 216.8 ± 0.1696
380
360
340
320
300
280
260
240
220
200
180

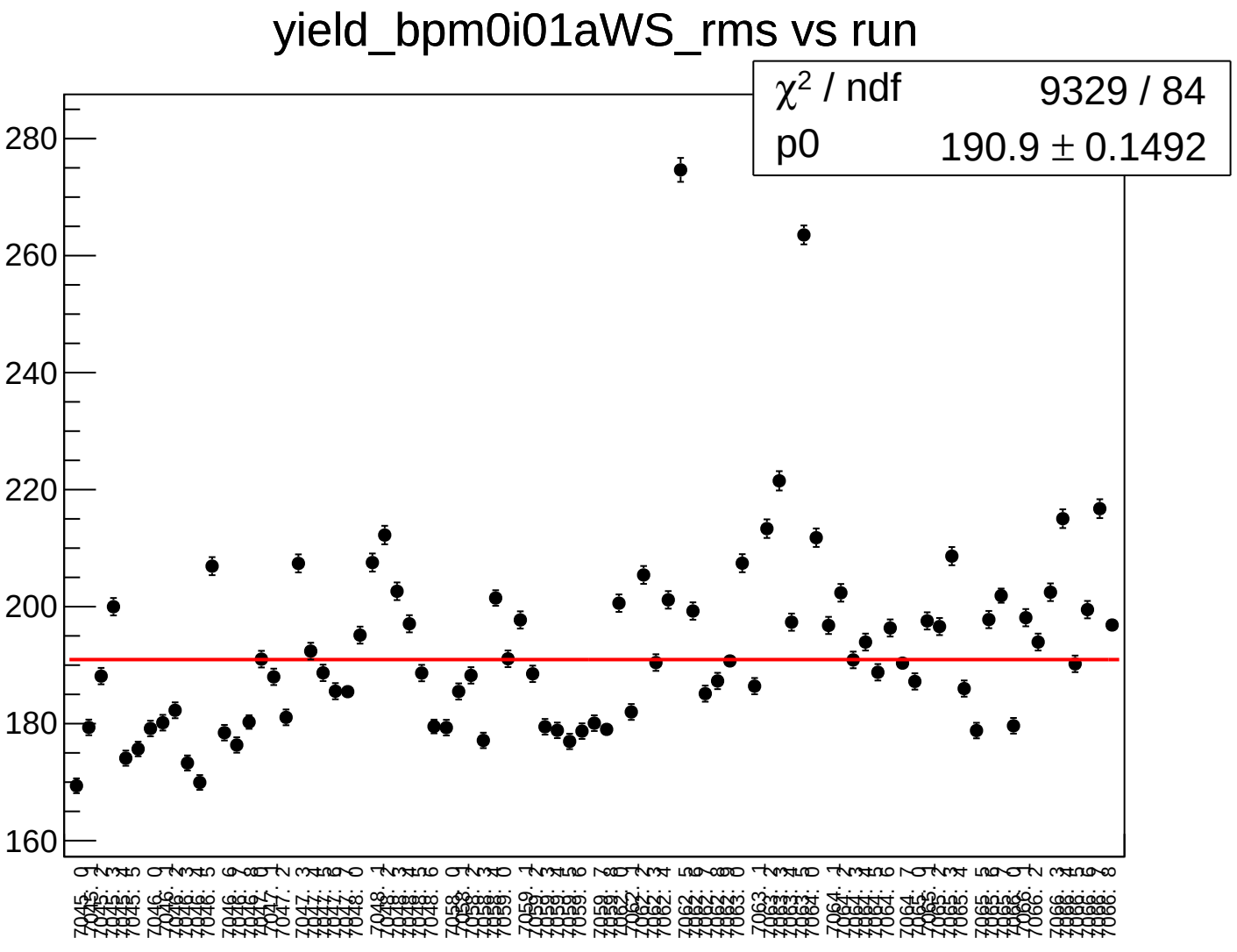

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 3e+05 / 84
p0 1.616e+05 ± 0.2362
161.8
161.7
161.6
161.5
161.4
161.3
pull
Entries 85
Mean 534.9
Std Dev 0
100
50
0
−50
−100

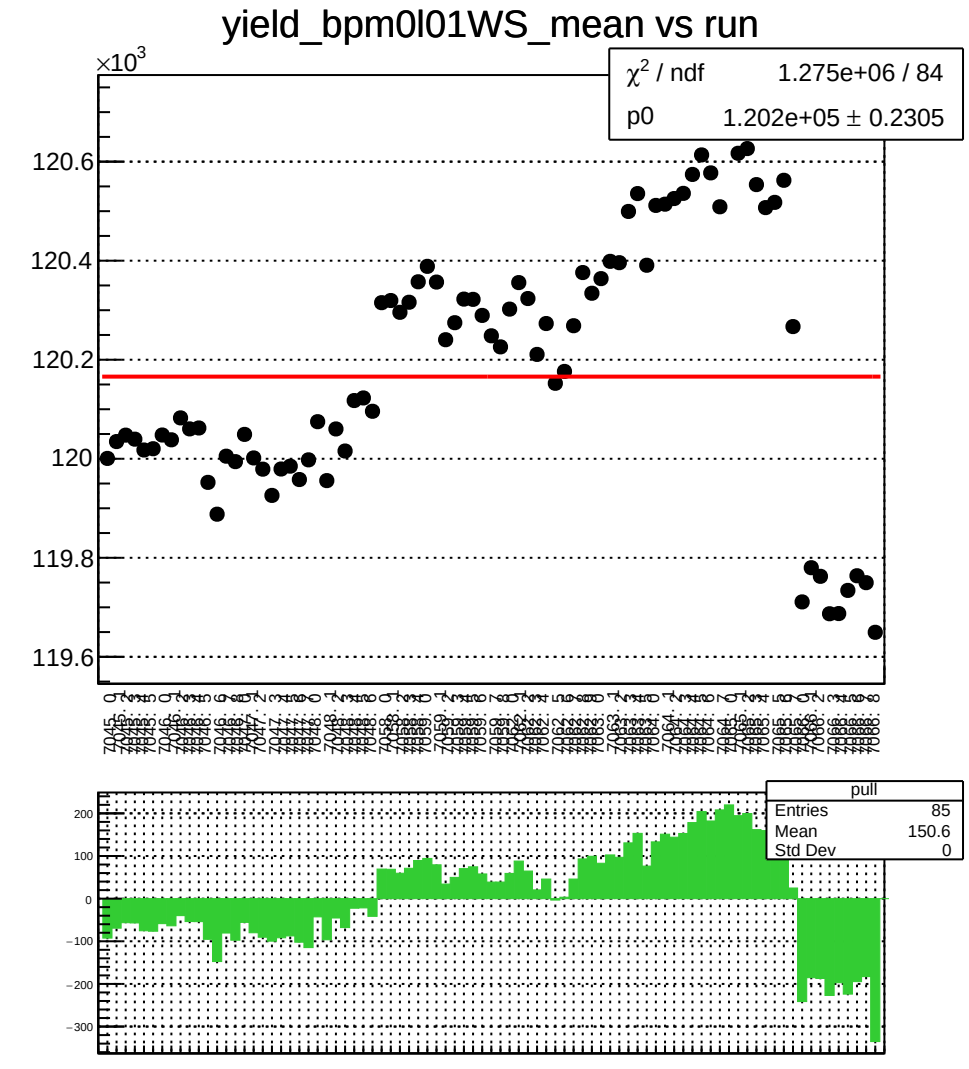

pull1D
Entries 85
Mean 2.118
Std Dev 3.883
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

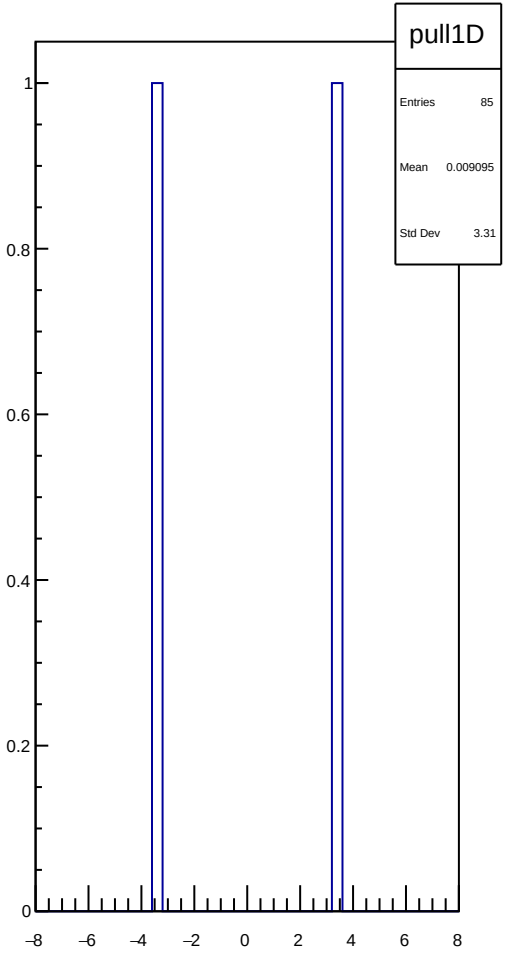

yield_bpm0i01WS_rms vs run
χ² / ndf 1.082e+04 / 84
p0 213.7 ± 0.167
320
300
280
260
240
220
200
180

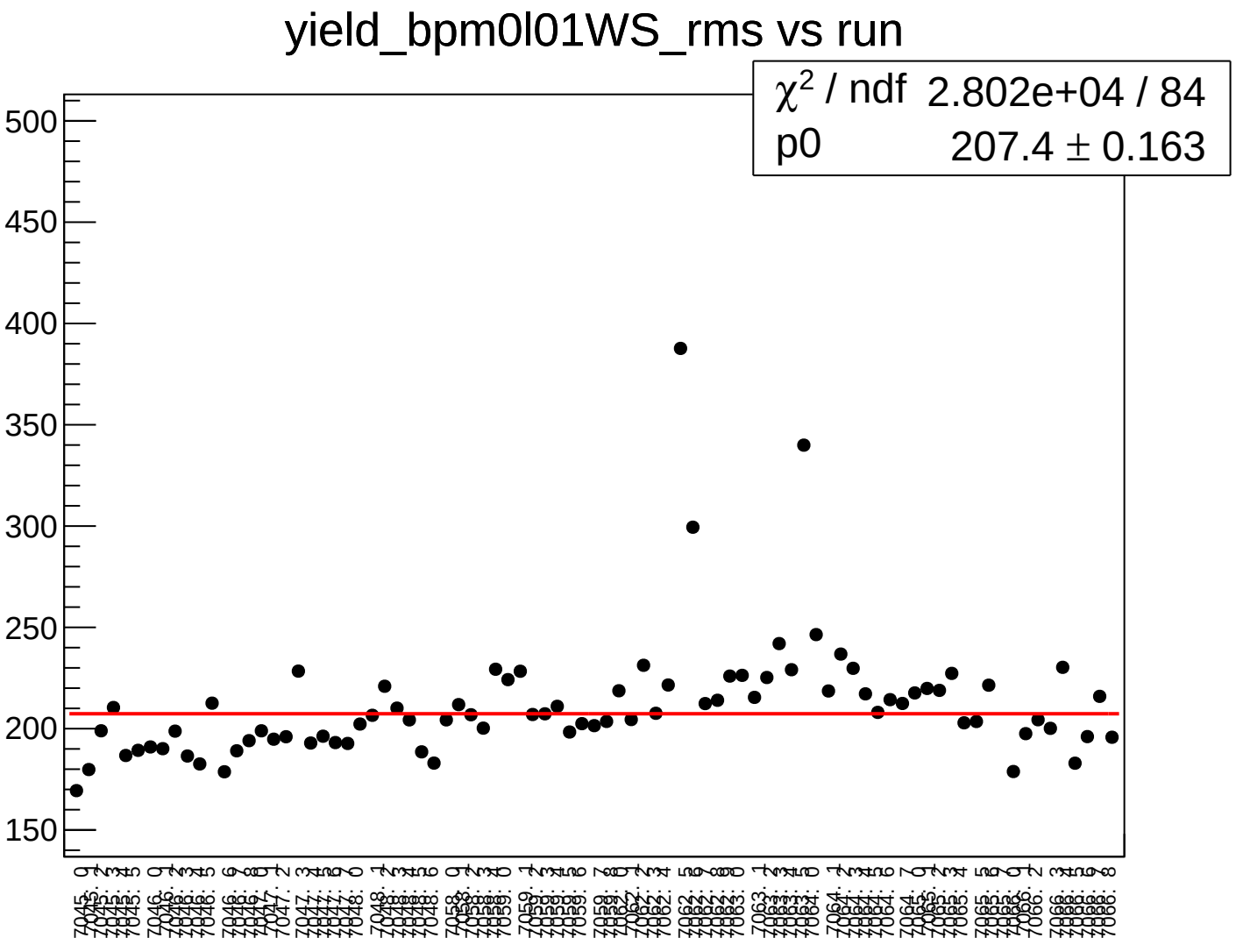

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.56e+05 / 84
p0 1.478e+05 ± 0.211
148
147.95
147.9
147.85
147.8
147.75
147.7
147.65
pull
Entries 85
Mean 2081
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

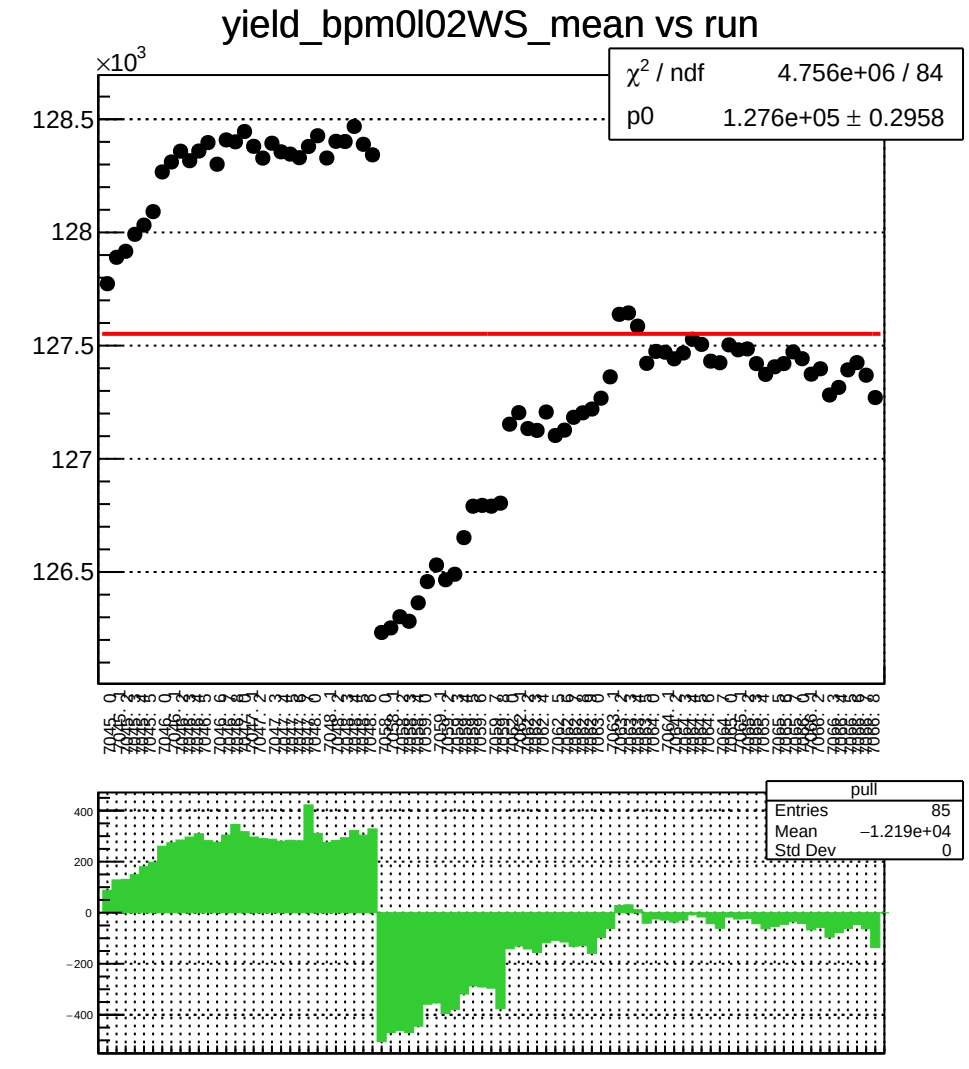

pull1D
Entries 85
Mean 2.275
Std Dev 4.281
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

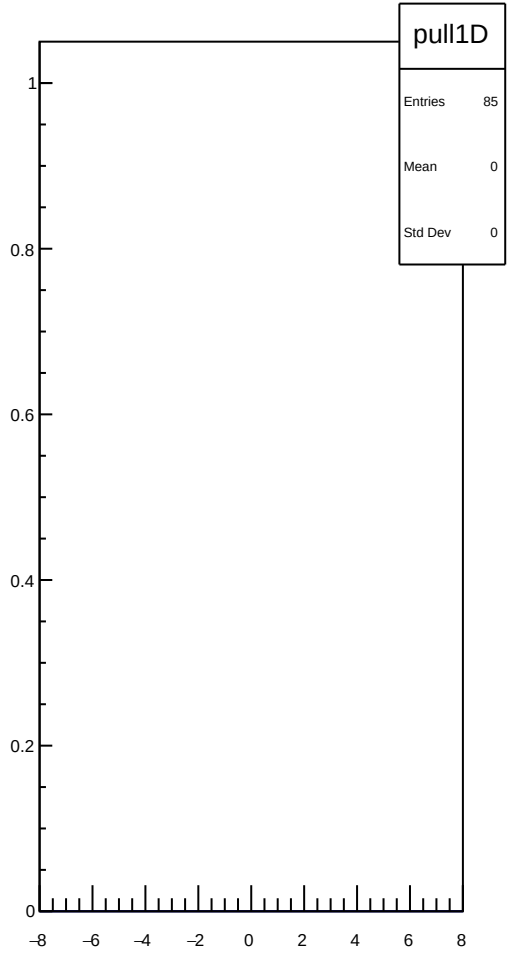

yield_bpm0i01aWS_rms vs run
χ² / ndf 9329 / 84
p0 190.9 ± 0.1492
280
260
240
220
200
180
160

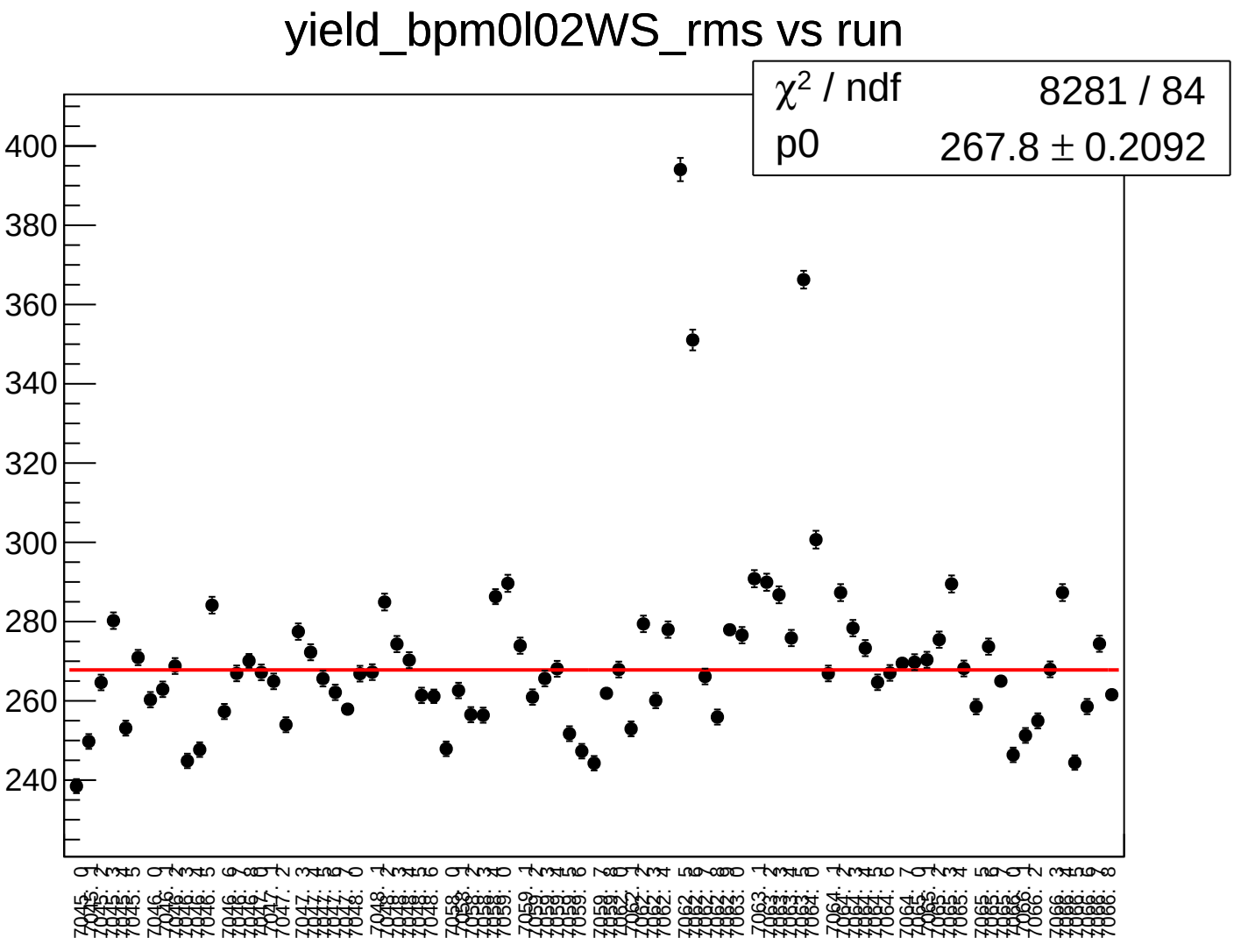

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.275e+06 / 84
p0 1.202e+05 ± 0.2305
120.6
120.4
120.2
120
119.8
119.6
pull
Entries 85
Mean 150.6
Std Dev 0
200
100
0
−100
−200
−300

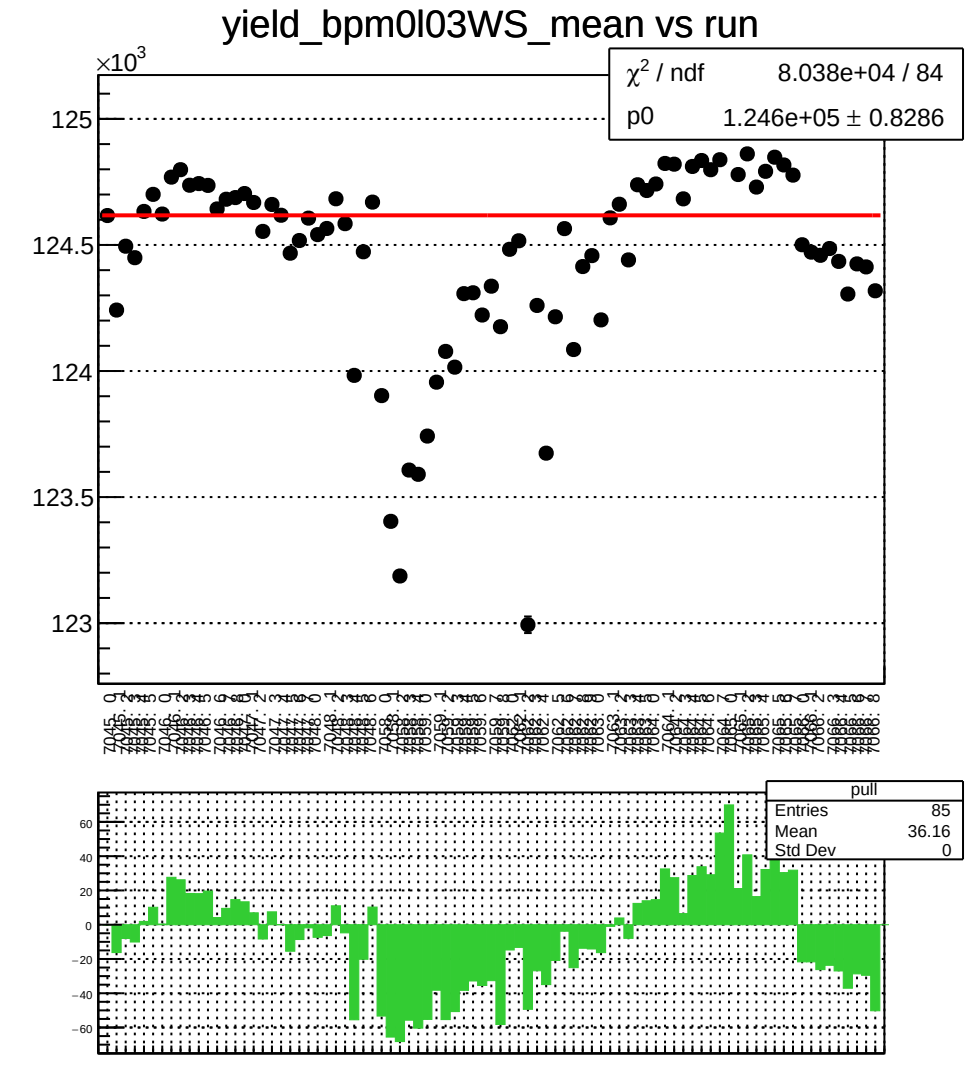

pull1D
Entries 85
Mean 0.009095
Std Dev 3.31
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

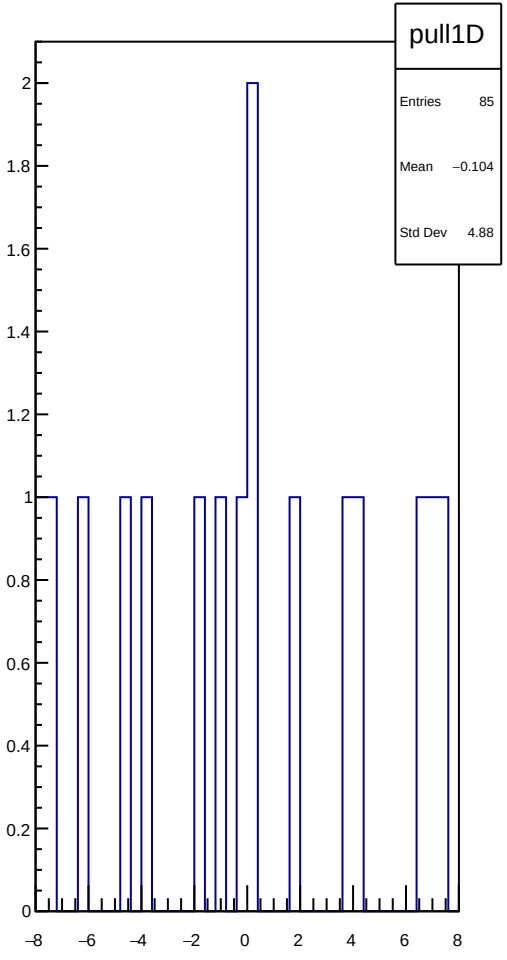

yield_bpm0l01WS_rms vs run
χ² / ndf 2.802e+04 / 84
p0 207.4 ± 0.163
500
450
400
350
300
250
200
150

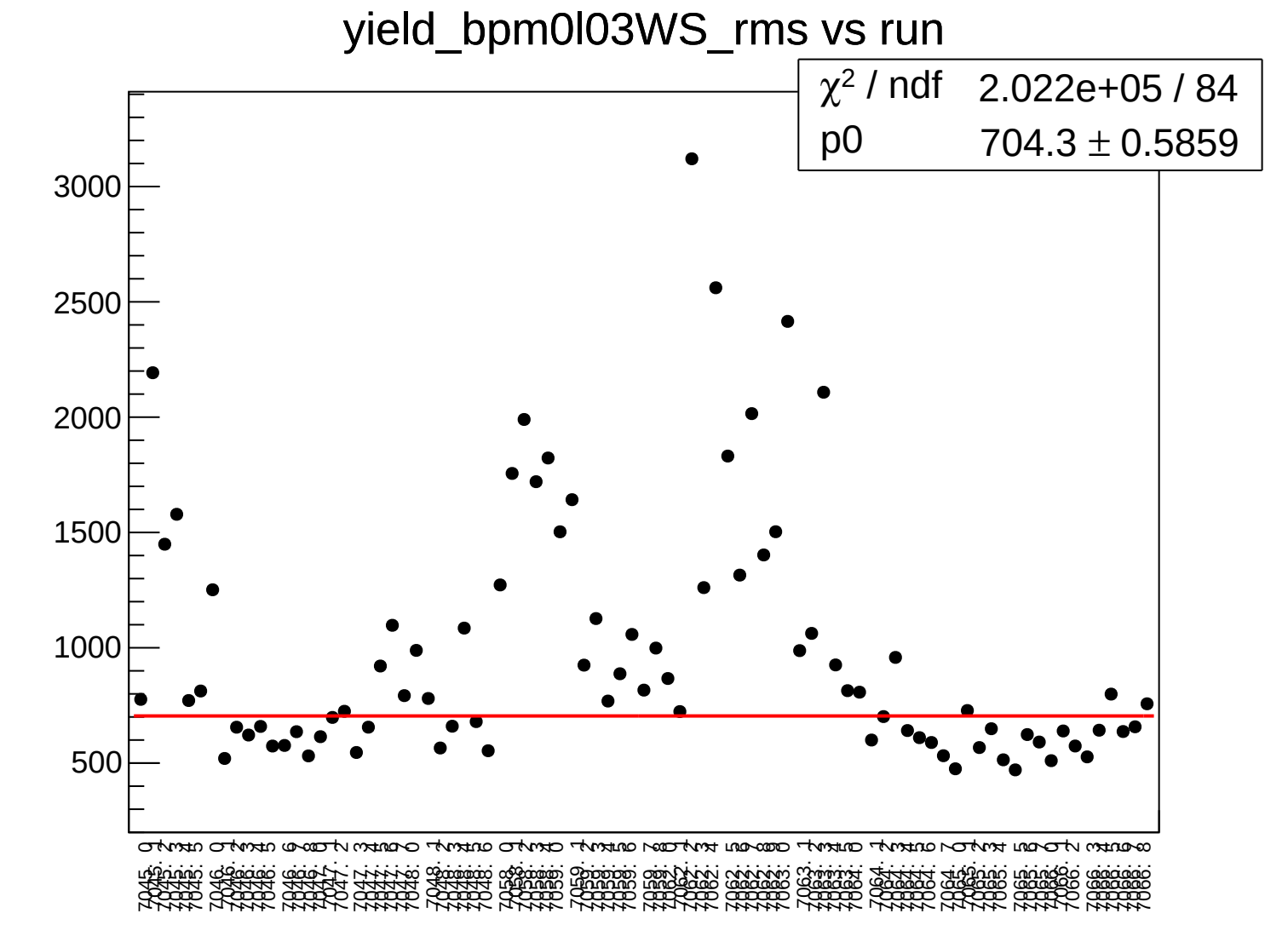

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.756e+06 / 84
p0 1.276e+05 ± 0.2958
128.5
128
127.5
127
126.5
pull
Entries 85
Mean −1.219e+04
Std Dev 0
400
200
0
−200
−400

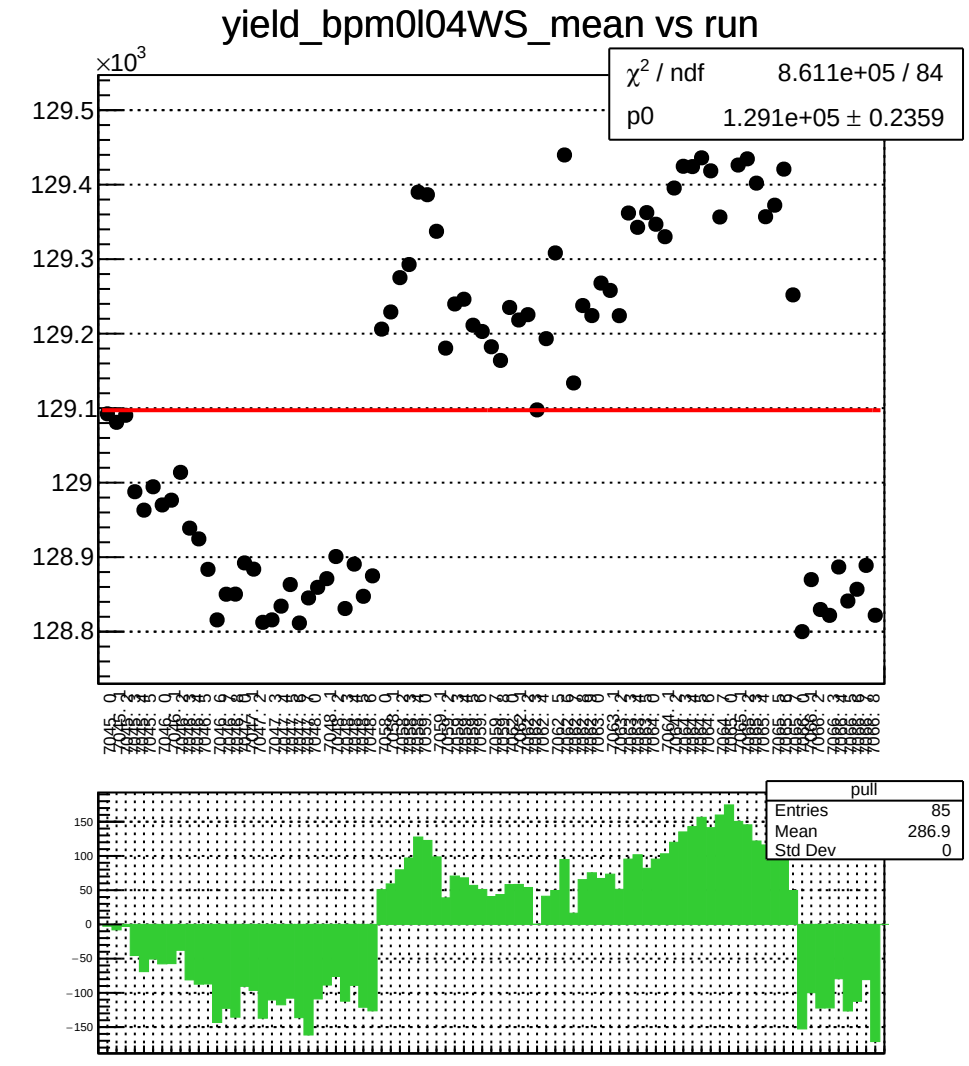

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

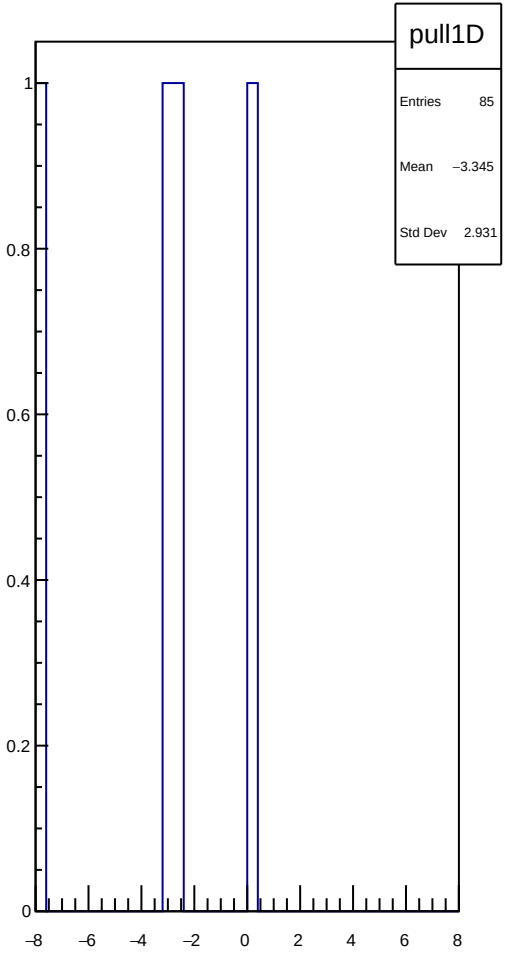

yield_bpm0l02WS_rms vs run
χ² / ndf 8281 / 84
p0 267.8 ± 0.2092
400
380
360
340
320
300
280
260
240

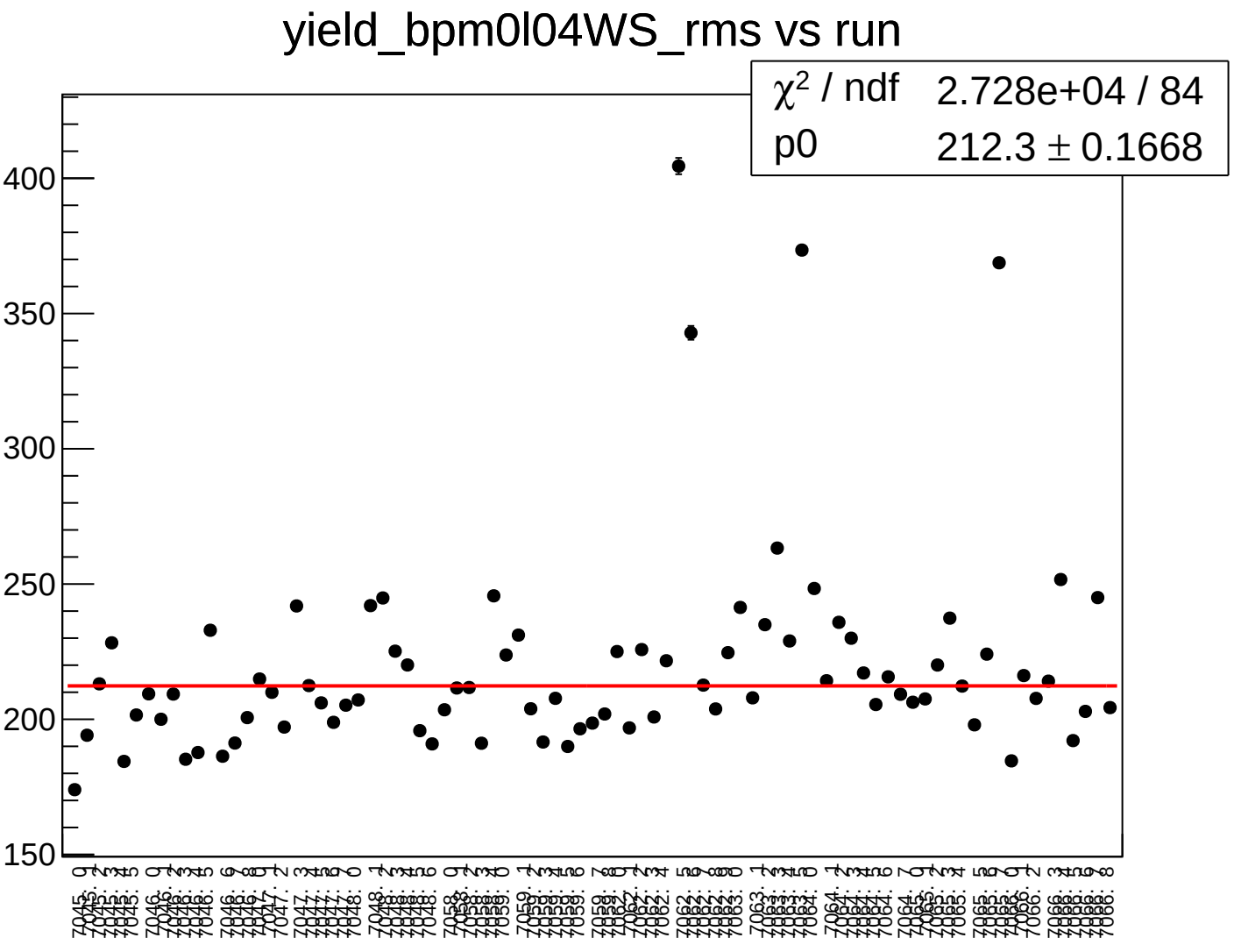

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 8.038e+04 / 84
p0 1.246e+05 ± 0.8286
125
124.5
124
123.5
123
pull
Entries 85
Mean 36.16
Std Dev 0
60
40
20
0
−20
−40
−60

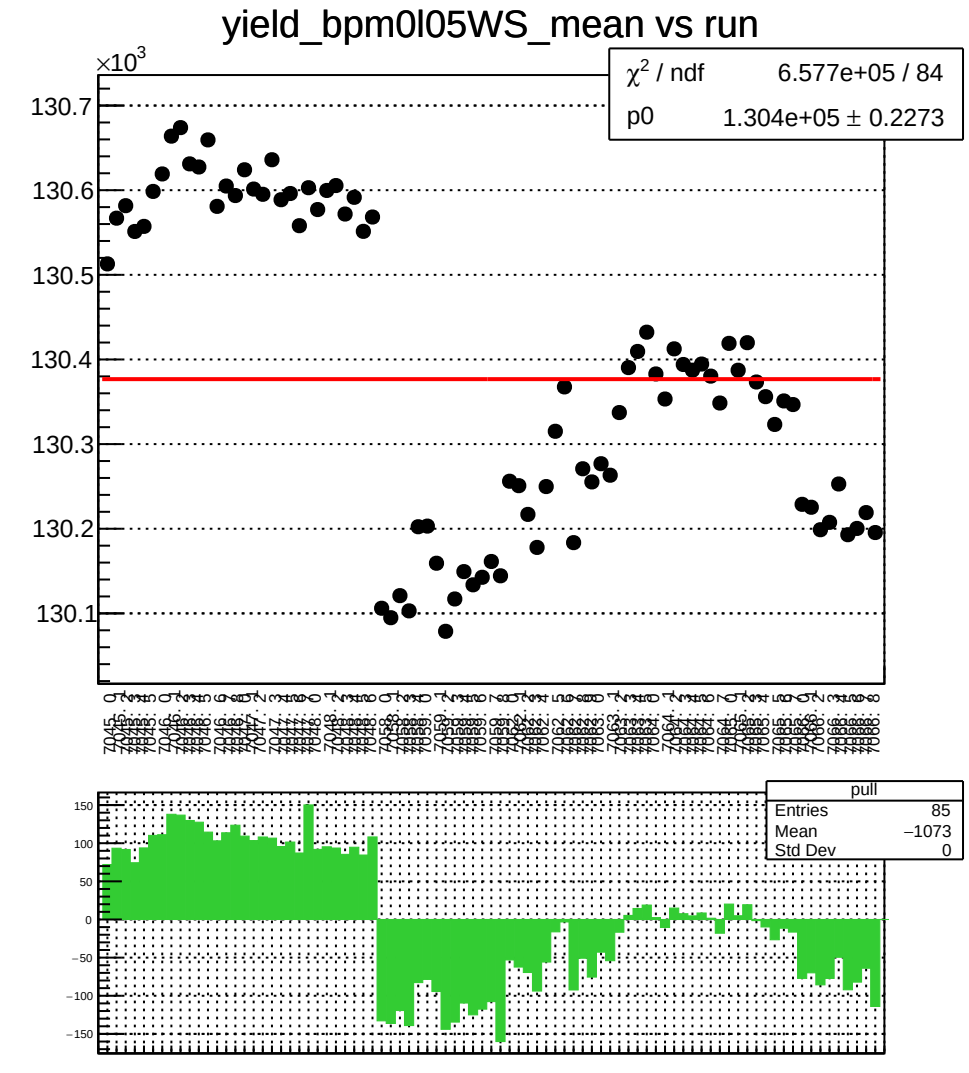

pull1D
Entries 85
Mean −0.104
Std Dev 4.88
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

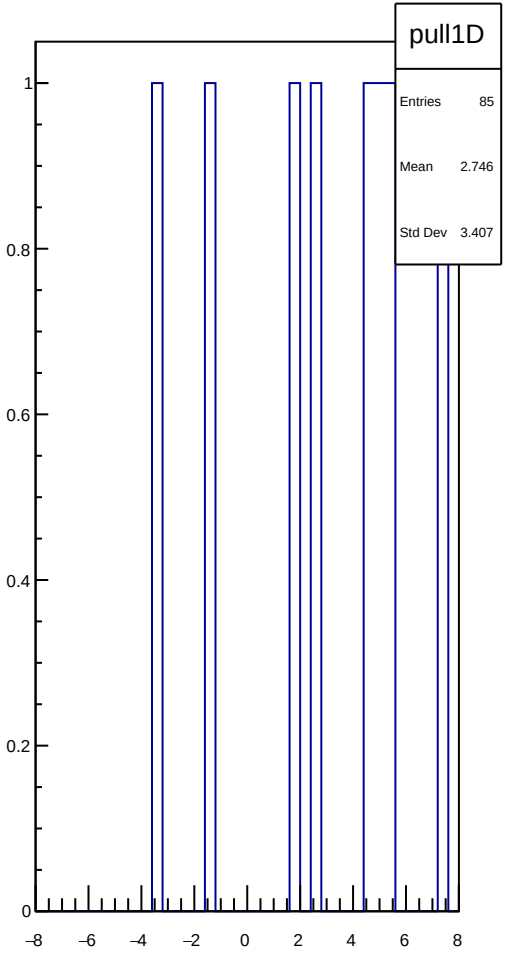

yield_bpm0l03WS_rms vs run
χ² / ndf 2.022e+05 / 84
p0 704.3 ± 0.5859
3000
2500
2000
1500
1000
500

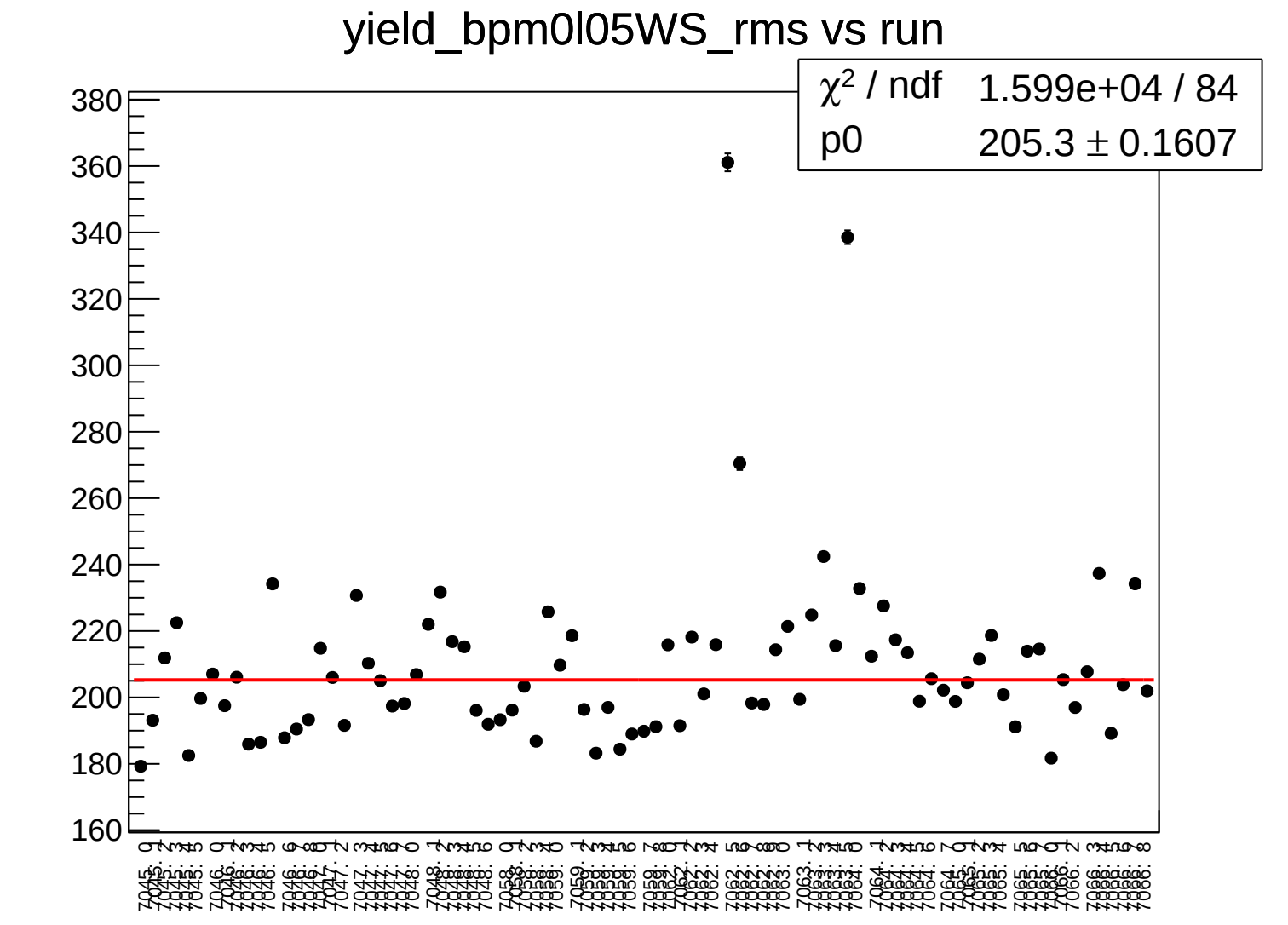

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 8.611e+05 / 84
p0 1.291e+05 ± 0.2359
129.5
129.4
129.3
129.2
129.1
129
128.9
128.8
pull
Entries 85
Mean 286.9
Std Dev 0
150
100
50
0
−50
−100
−150

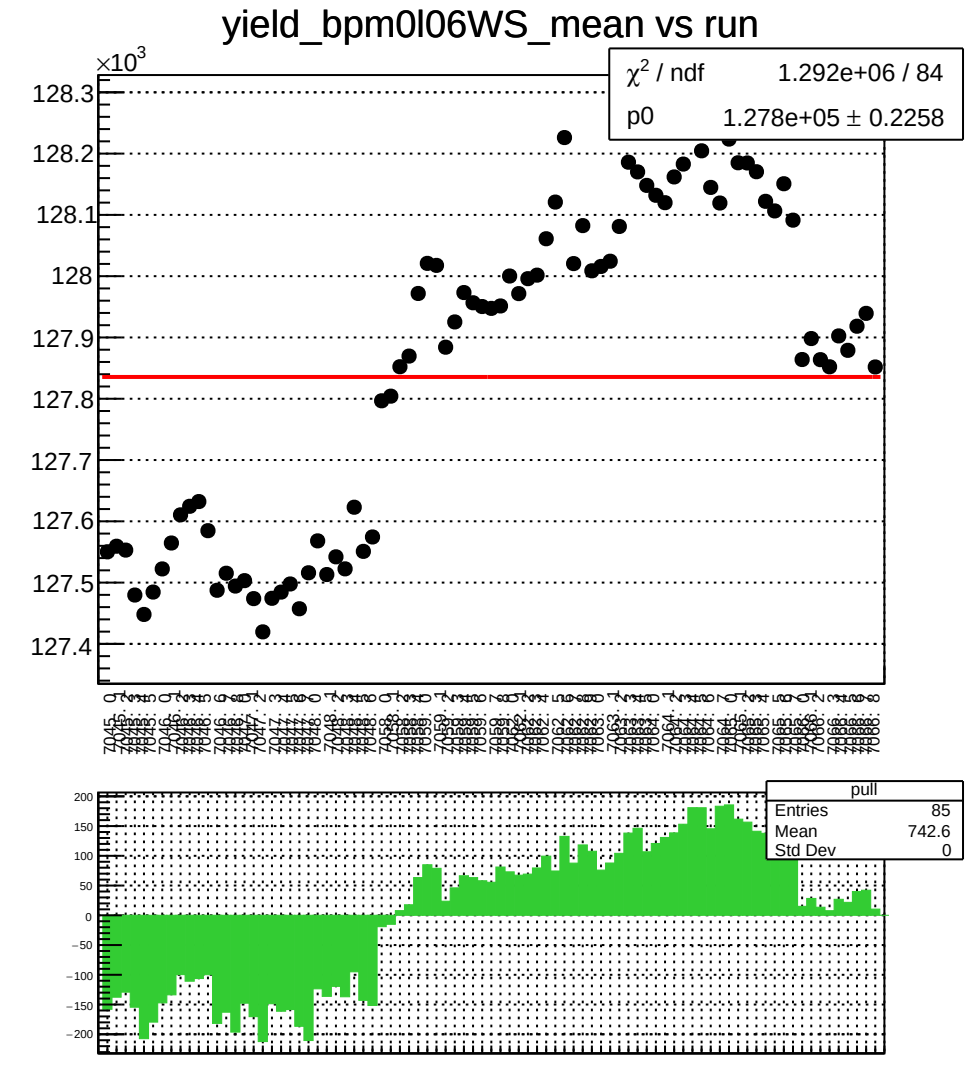

pull1D
Entries 85
Mean −3.345
Std Dev 2.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

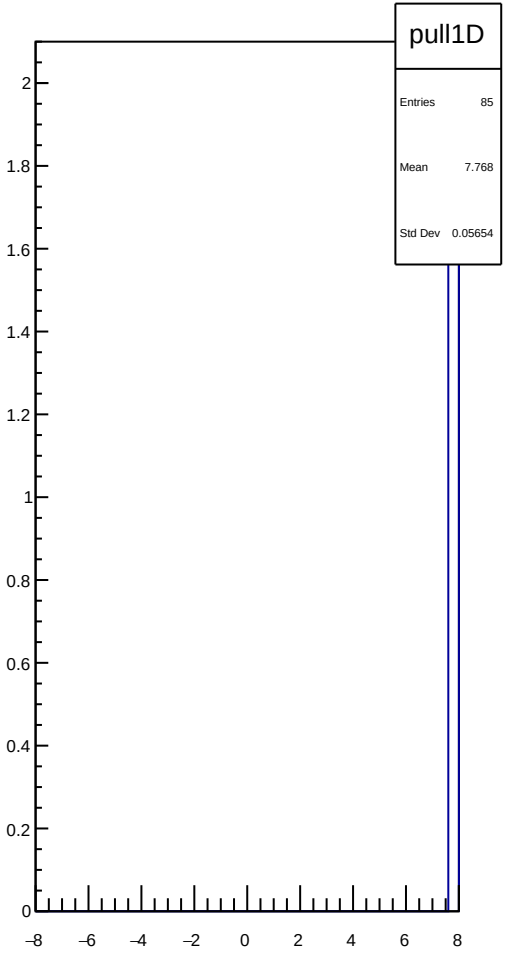

yield_bpm0l04WS_rms vs run
χ² / ndf 2.728e+04 / 84
p0 212.3 ± 0.1668
400
350
300
250
200
150

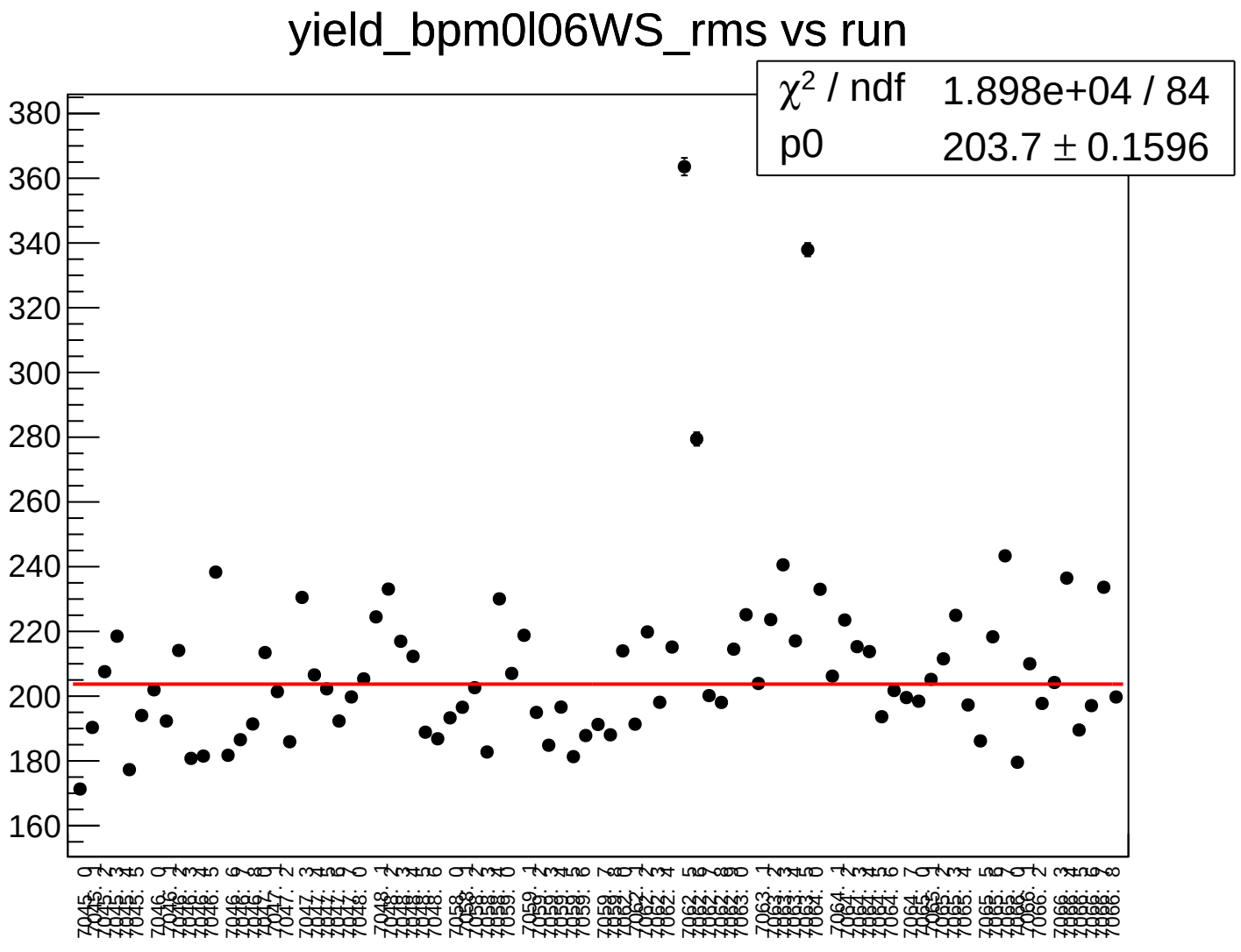

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.577e+05 / 84
p0 1.304e+05 ± 0.2273
130.7
130.6
130.5
130.4
130.3
130.2
130.1
pull
Entries 85
Mean −1073
Std Dev 0
150
100
50
0
−50
−100
−150

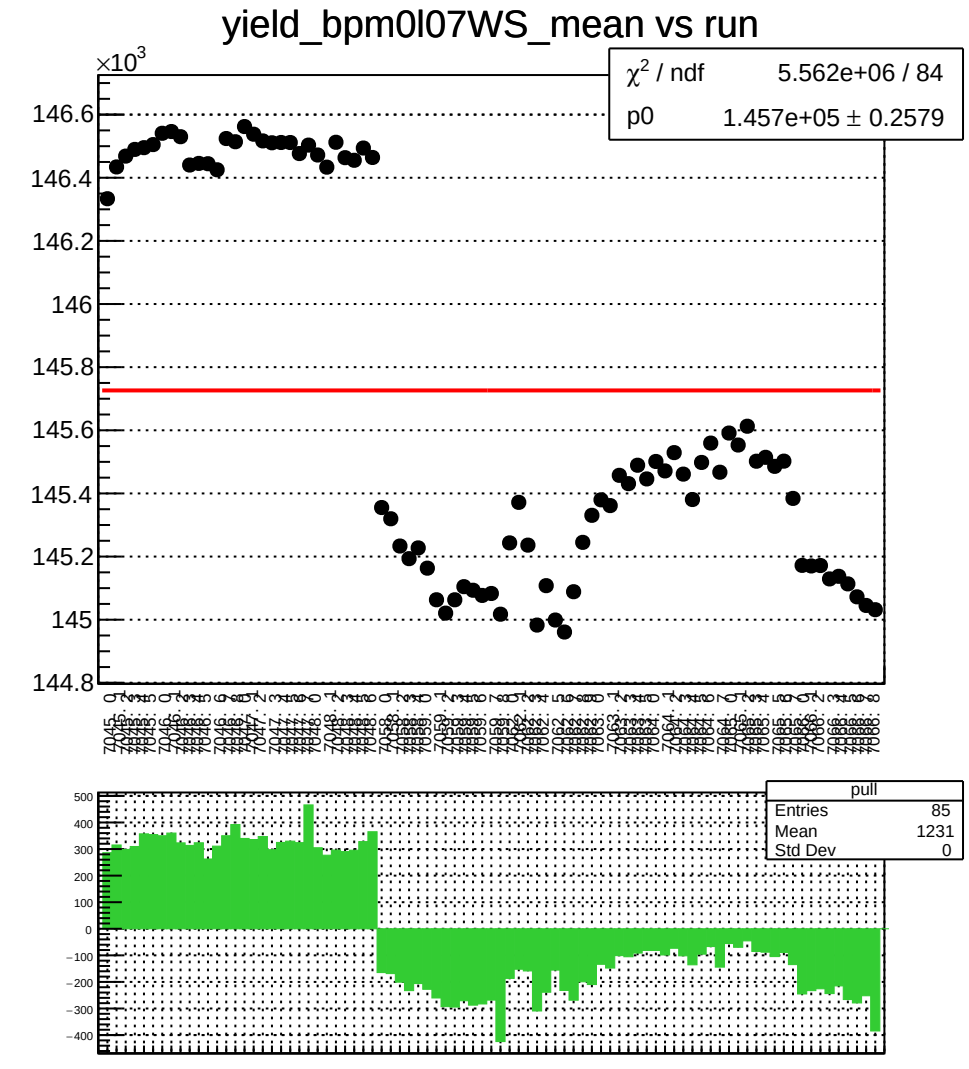

pull1D
Entries 85
Mean 2.746
Std Dev 3.407
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

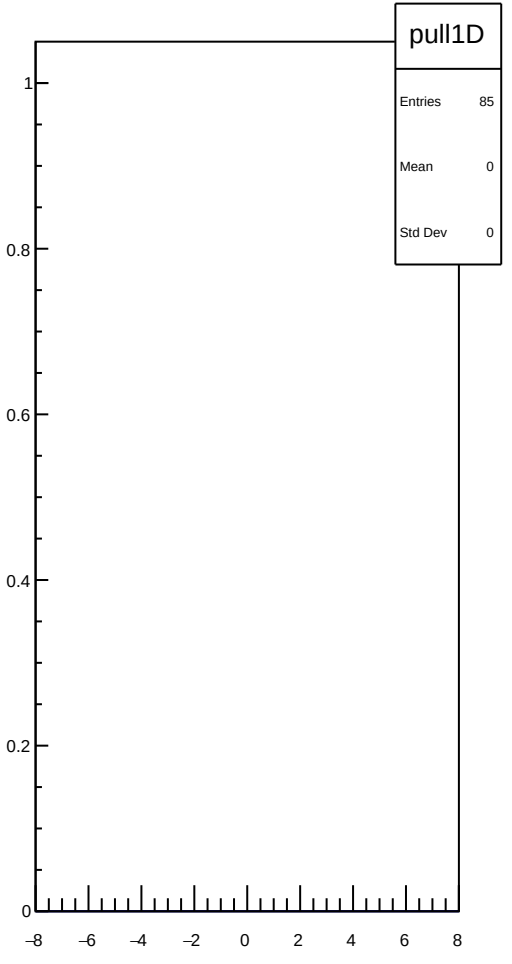

yield_bpm0l05WS_rms vs run
χ² / ndf 1.599e+04 / 84
p0 205.3 ± 0.1607
380
360
340
320
300
280
260
240
220
200
180
160

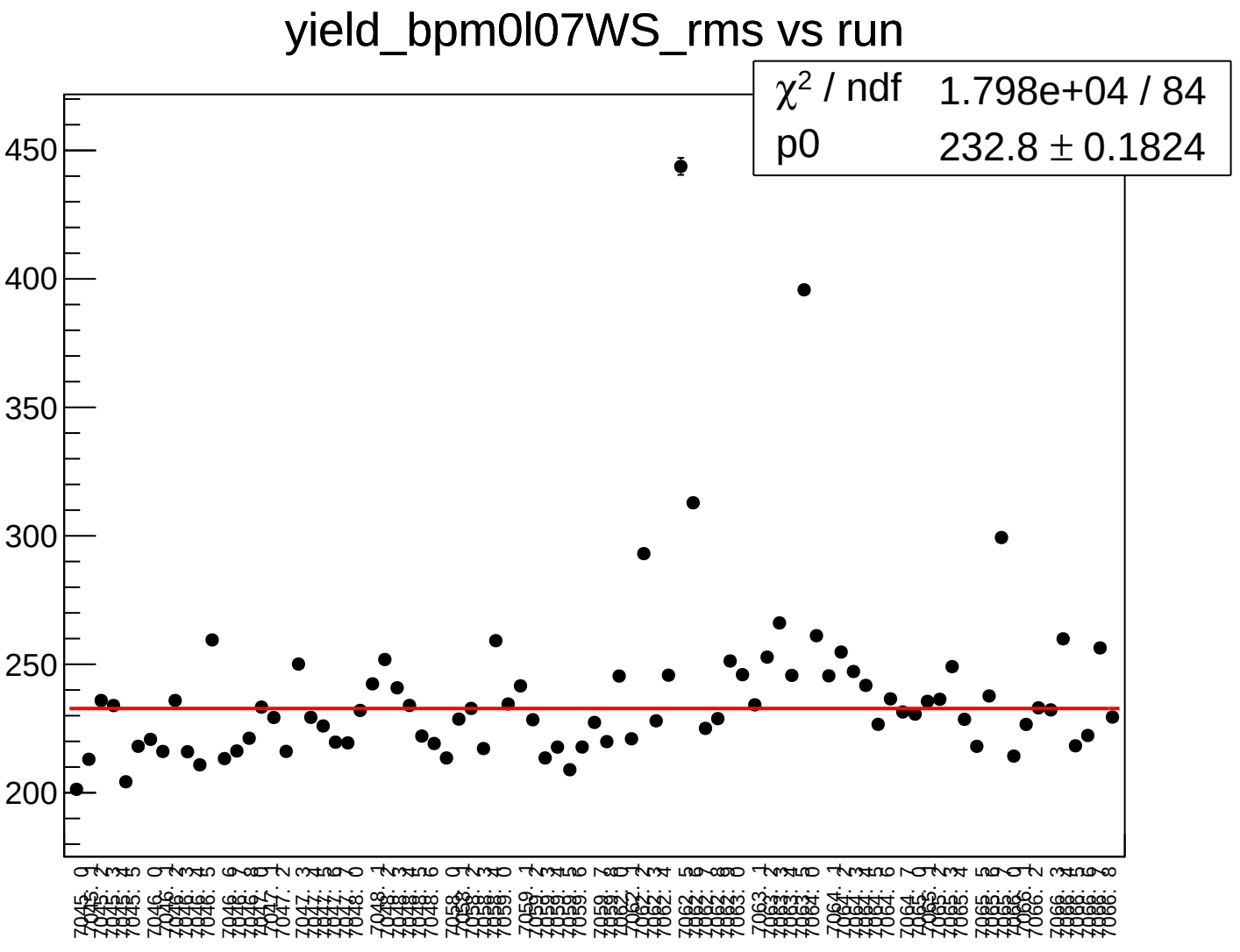

yield_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 1.292e+06 / 84
p0 1.278e+05 ± 0.2258
128.3
128.2
128.1
128
127.9
127.8
127.7
127.6
127.5
127.4
pull
Entries 85
Mean 742.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

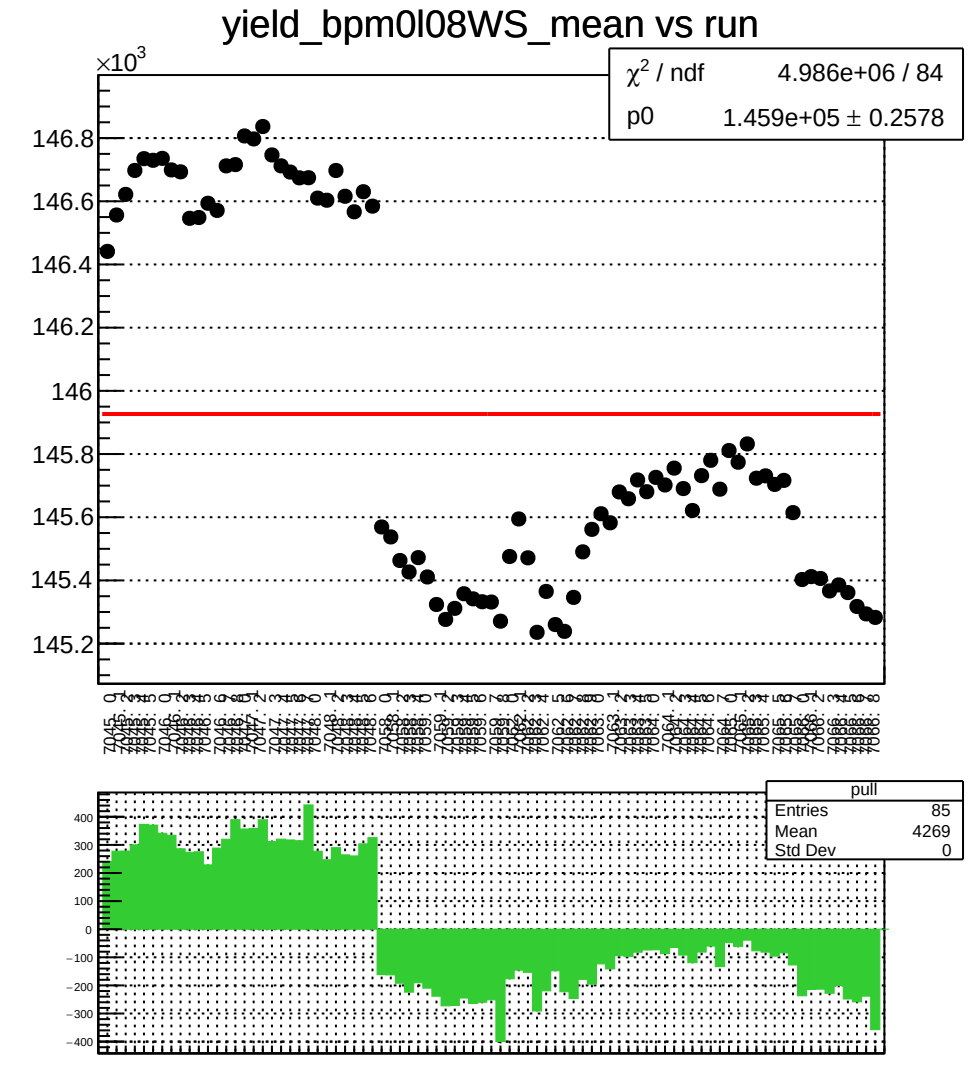

pull1D
Entries 85
Mean 7.768
Std Dev 0.05654
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

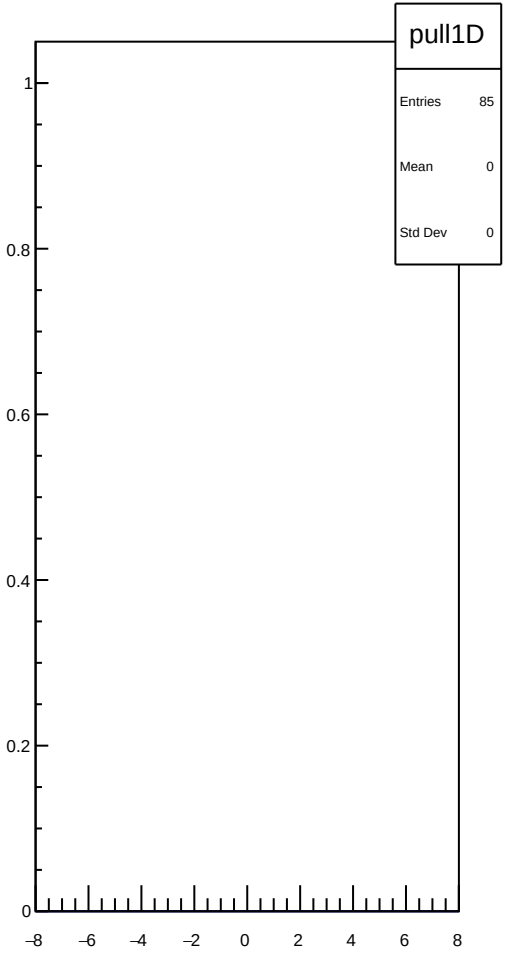

yield_bpm0l06WS_rms vs run
χ² / ndf 1.898e+04 / 84
p0 203.7 ± 0.1596
380
360
340
320
300
280
260
240
220
200
180
160

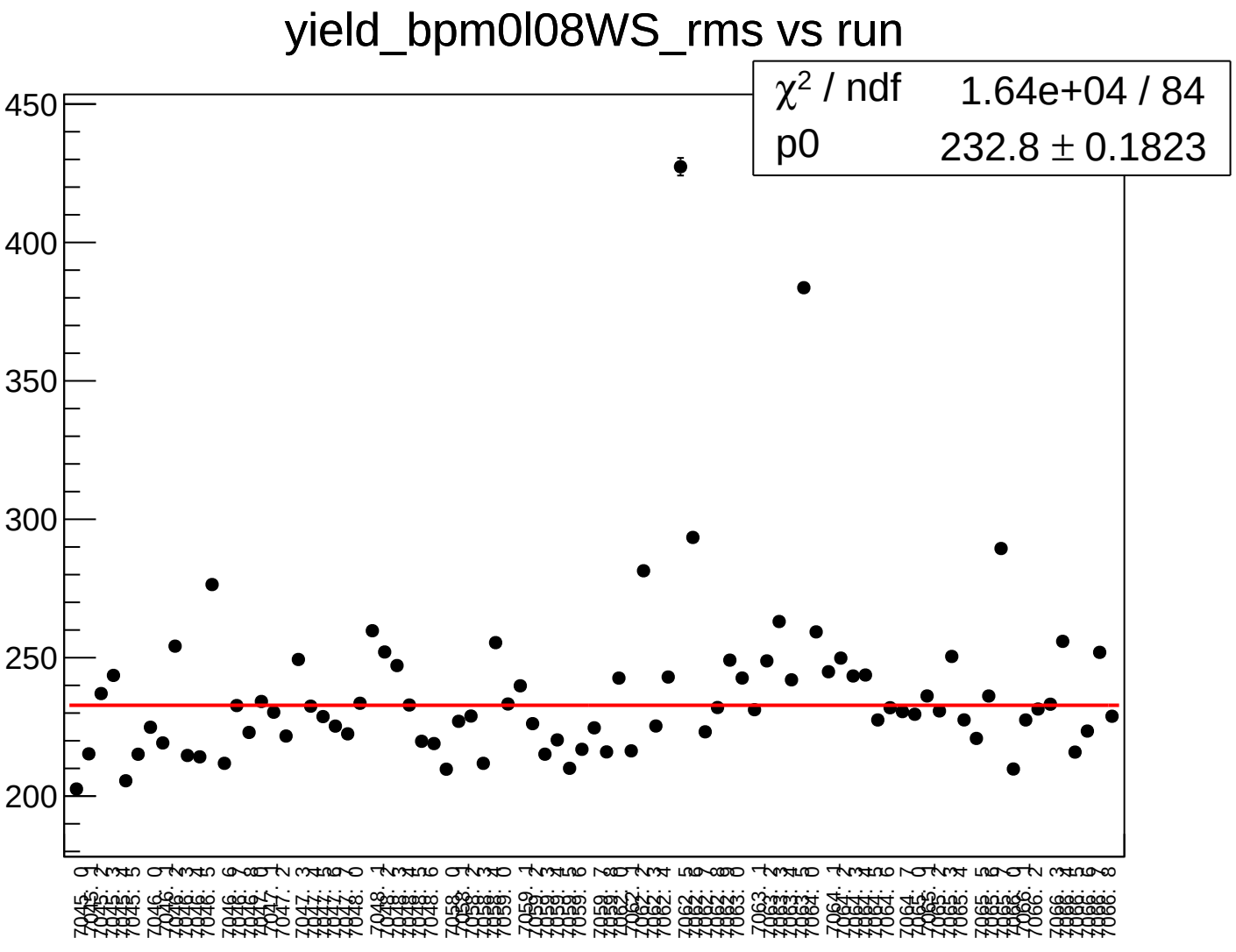

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.562e+06 / 84
p0 1.457e+05 ± 0.2579
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
pull
Entries 85
Mean 1231
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

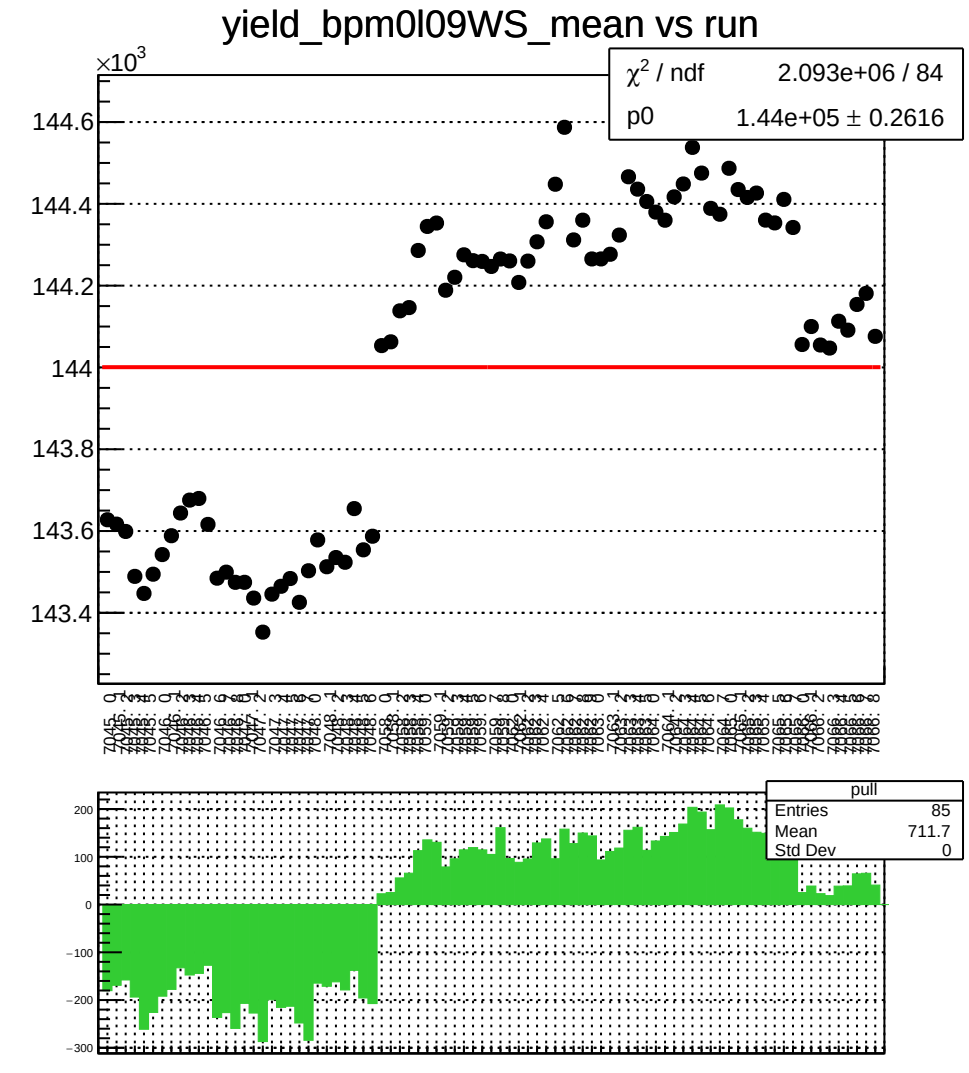

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

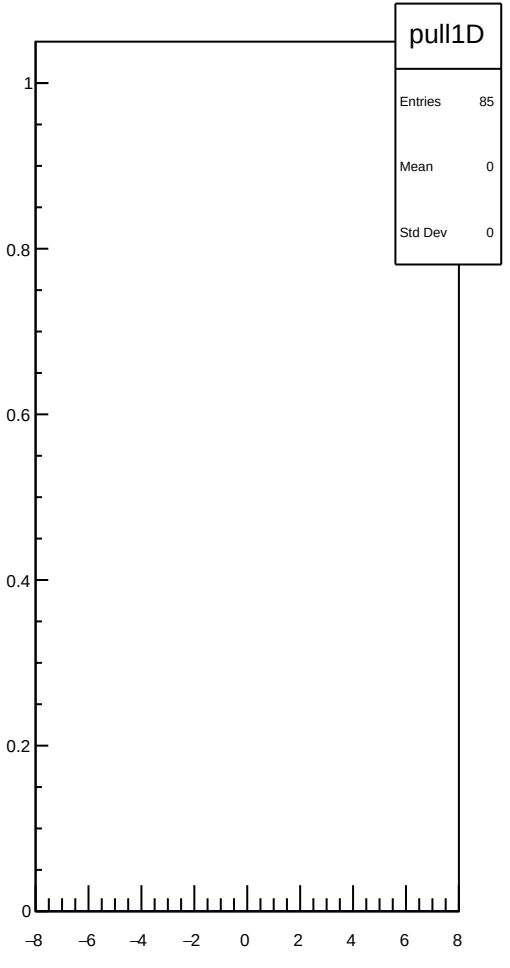

yield_bpm0l07WS_rms vs run
χ² / ndf 1.798e+04 / 84
p0 232.8 ± 0.1824
450
400
350
300
250
200

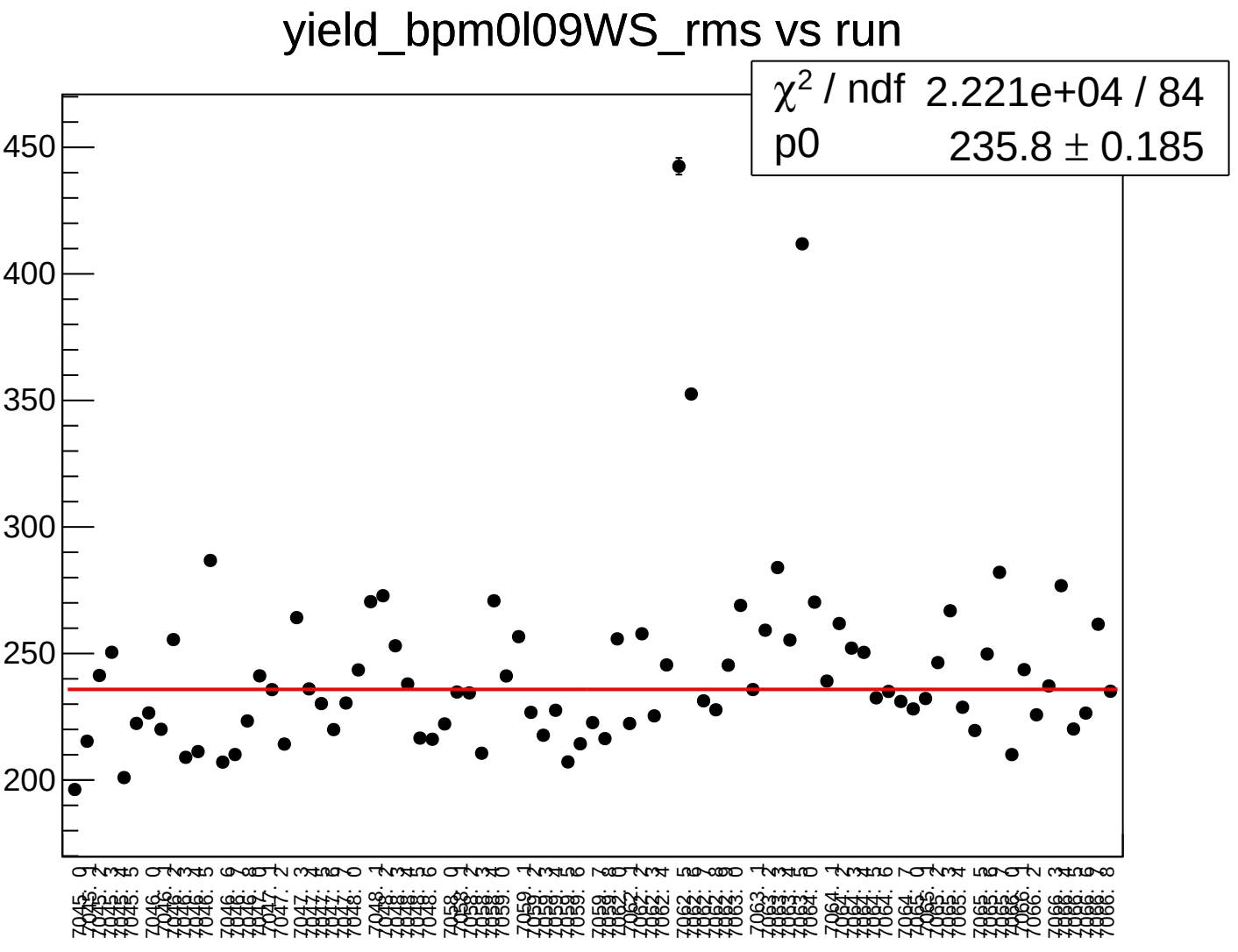

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.986e+06 / 84
p0 1.459e+05 ± 0.2578
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 85
Mean 4269
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

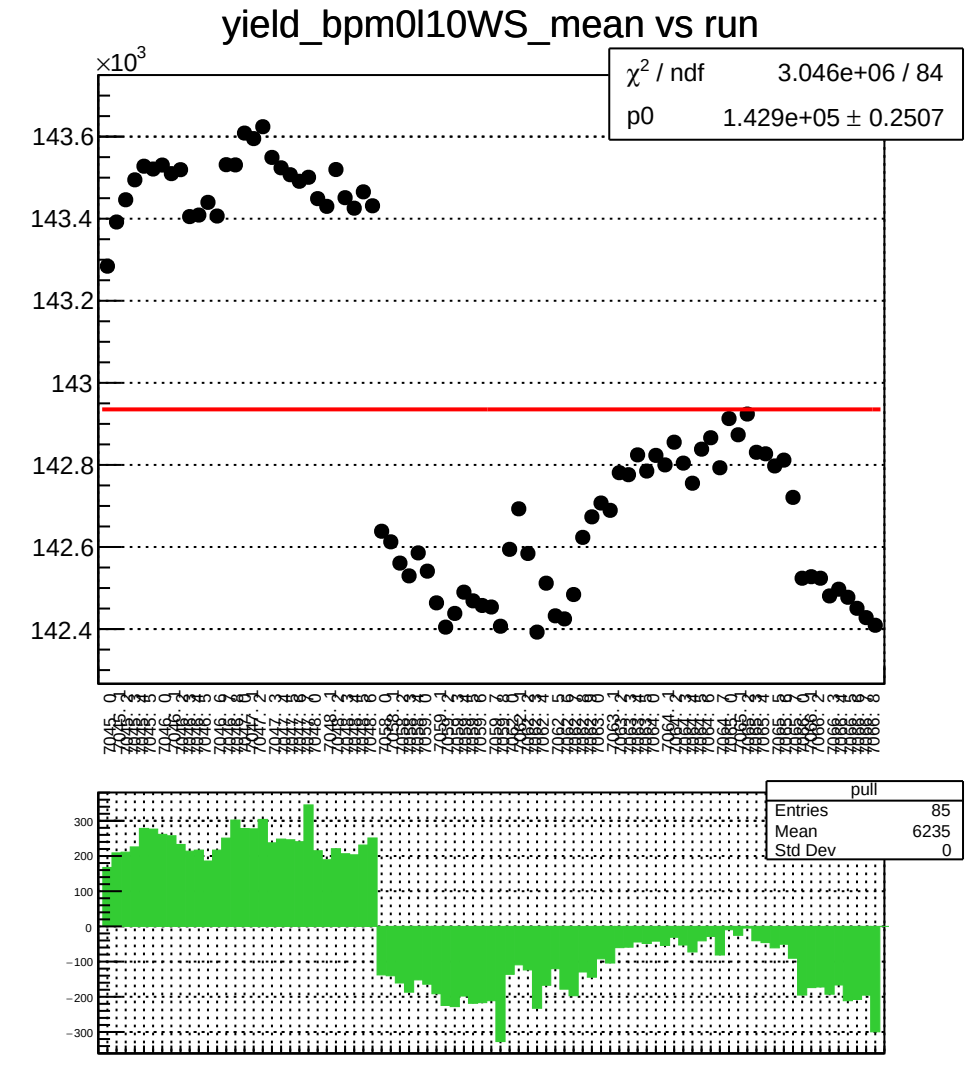

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

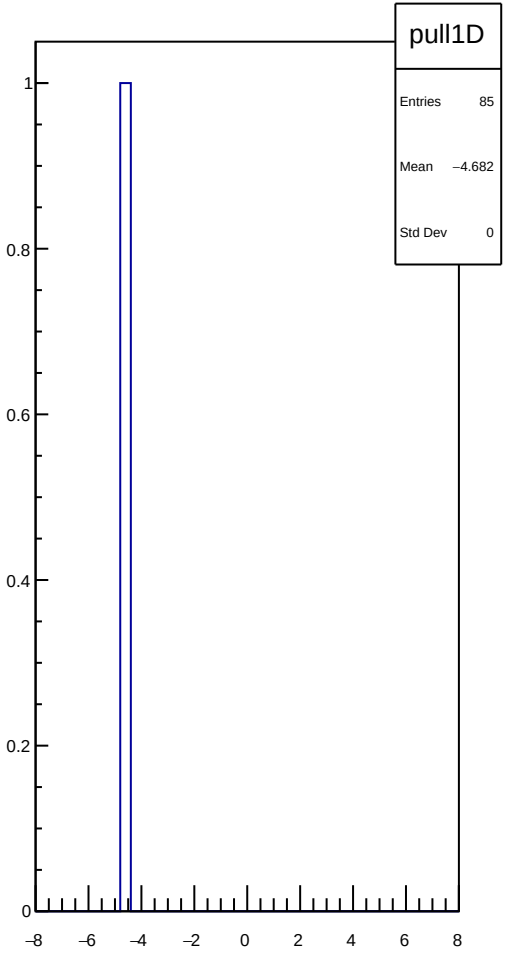

yield_bpm0l08WS_rms vs run
χ² / ndf 1.64e+04 / 84
p0 232.8 ± 0.1823
450
400
350
300
250
200

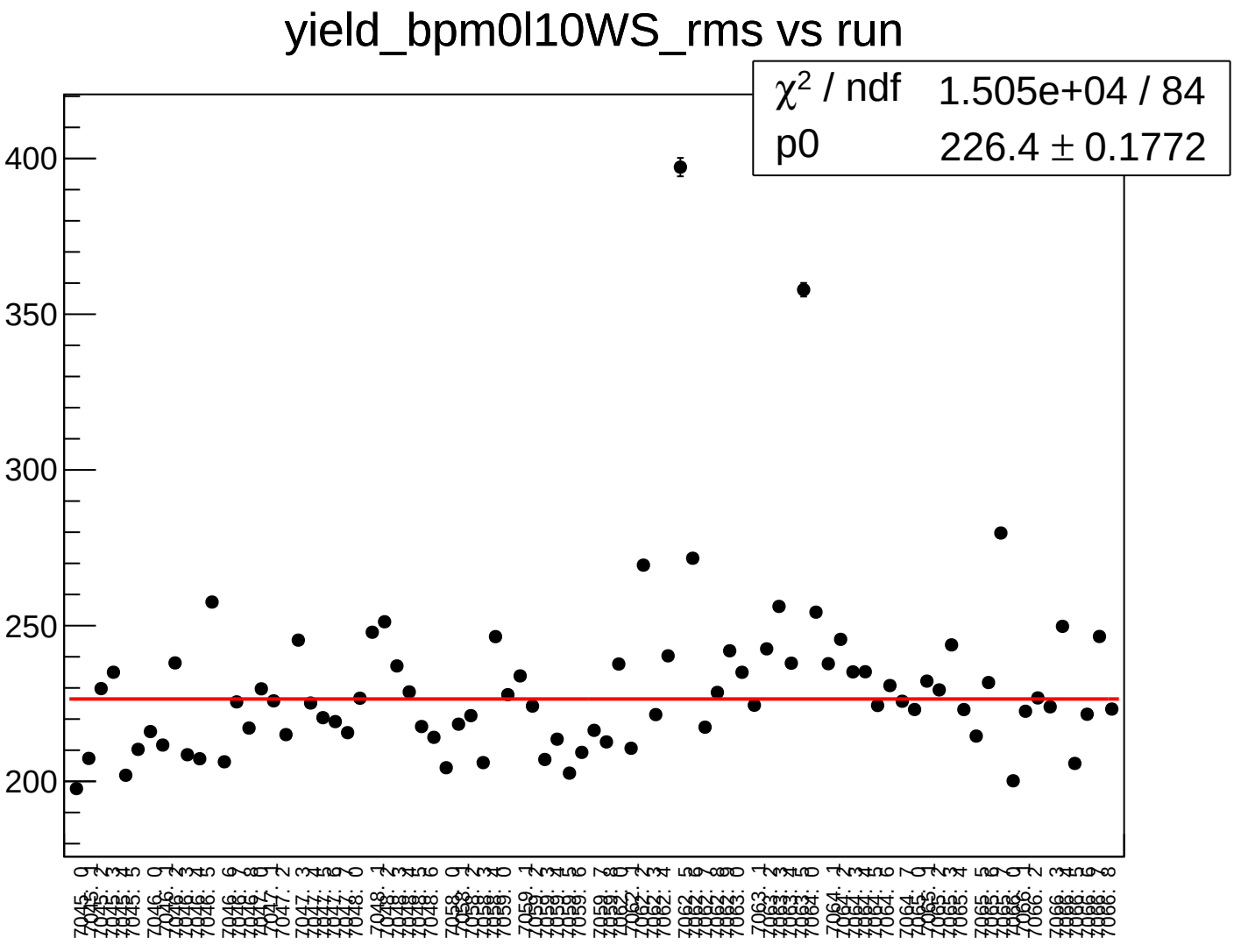

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.093e+06 / 84
p0 1.44e+05 ± 0.2616
144.6
144.4
144.2
144
143.8
143.6
143.4
pull
Entries 85
Mean 711.7
Std Dev 0
200
100
0
−100
−200
−300

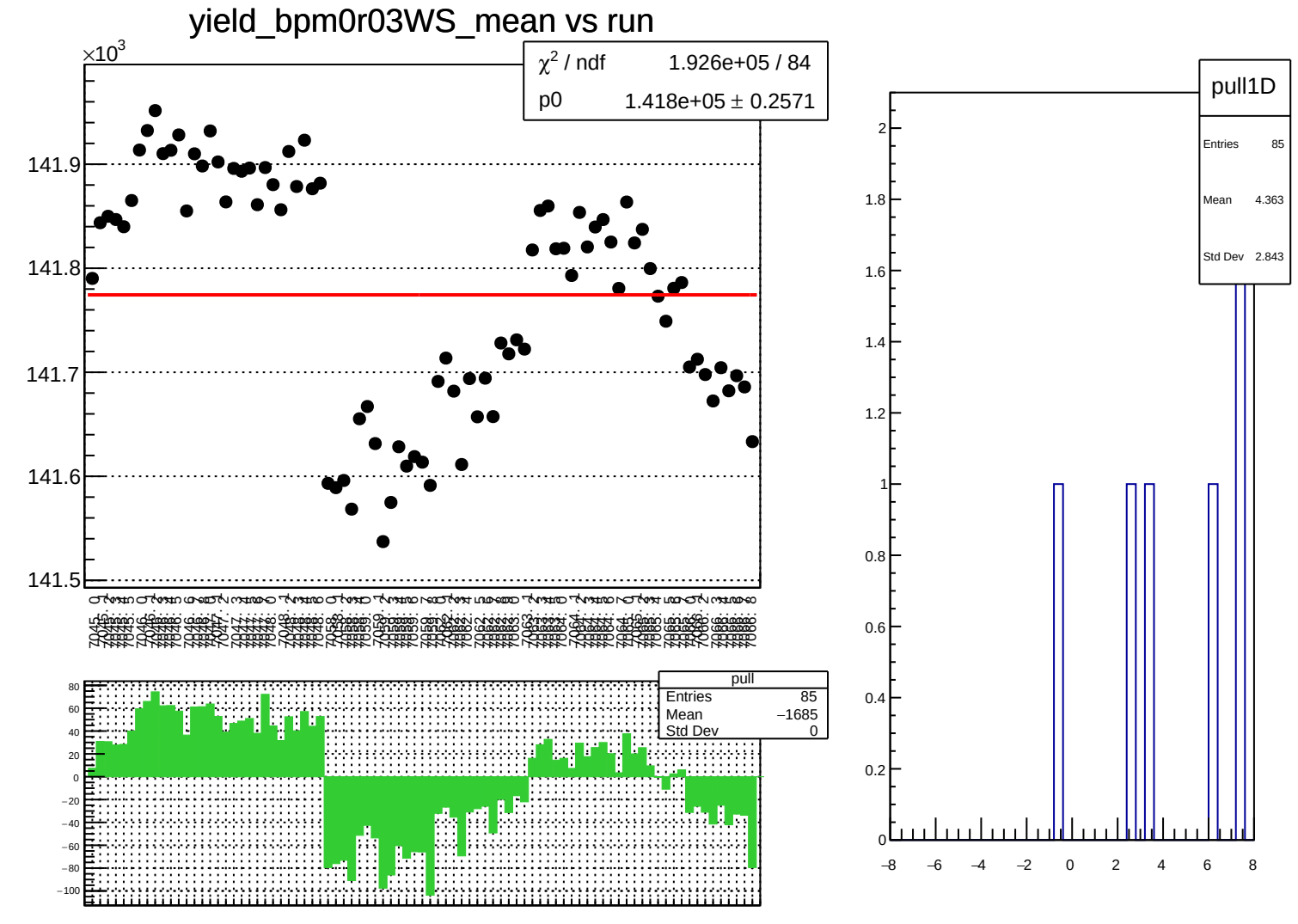

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

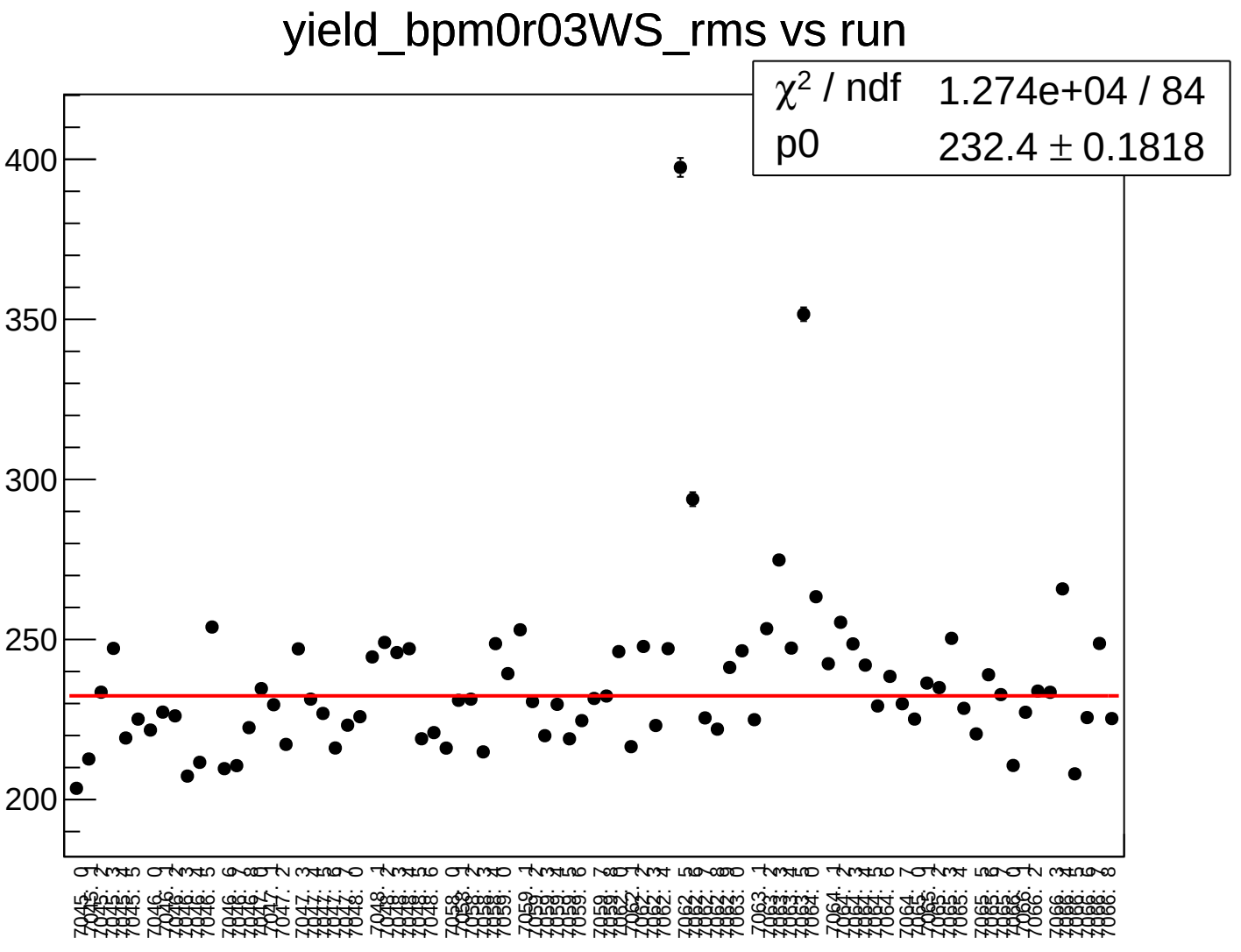

yield_bpm0l09WS_rms vs run
χ² / ndf 2.221e+04 / 84
p0 235.8 ± 0.185
450
400
350
300
250
200

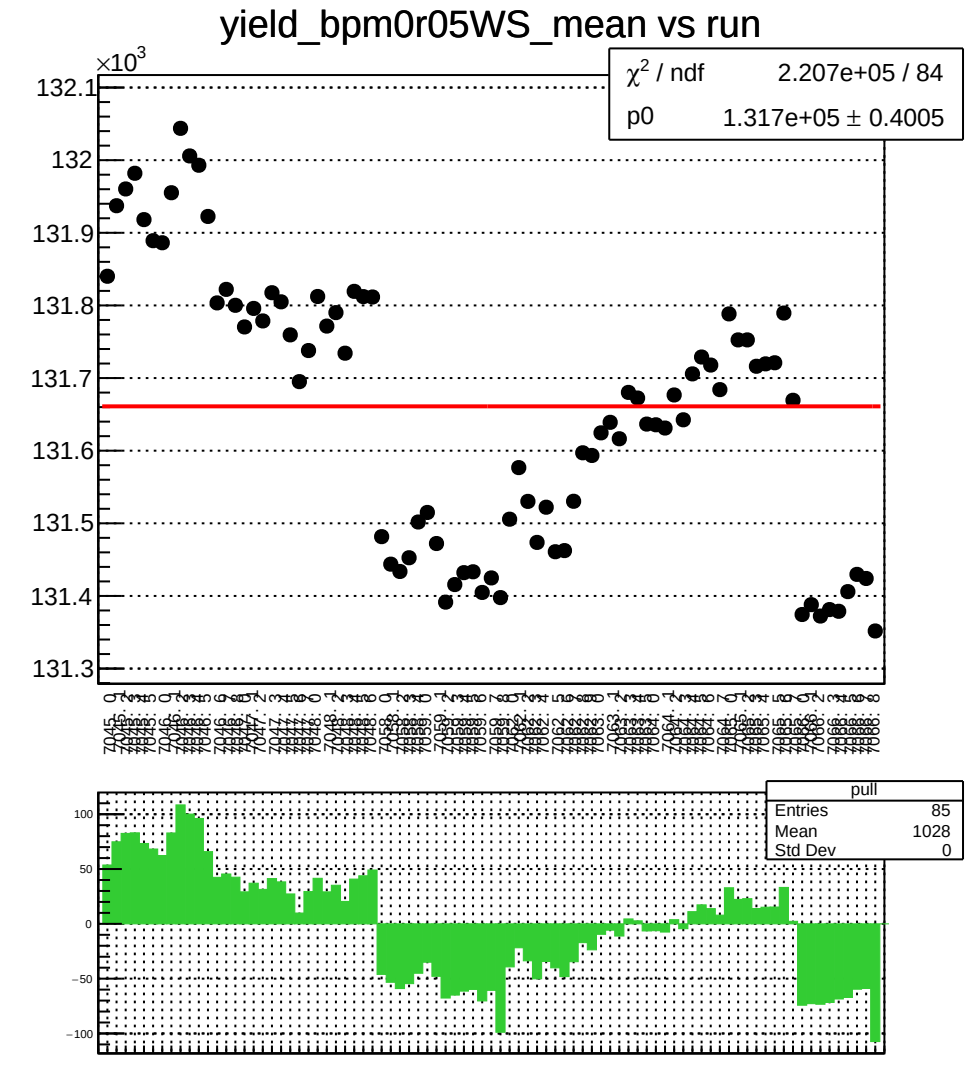

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.046e+06 / 84
p0 1.429e+05 ± 0.2507
143.6
143.4
143.2
143
142.8
142.6
142.4
pull
Entries 85
Mean 6235
Std Dev 0
300
200
100
0
−100
−200
−300

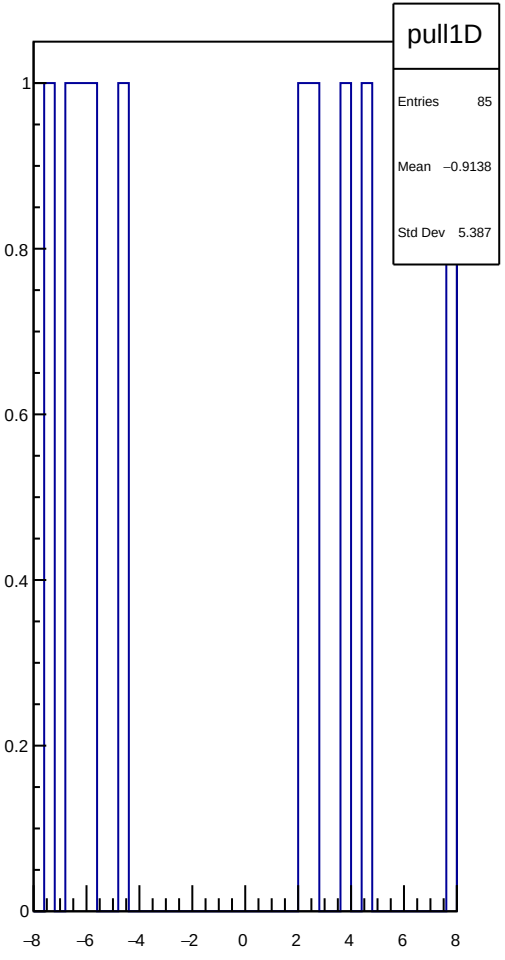

pull1D
Entries 85
Mean −4.682
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

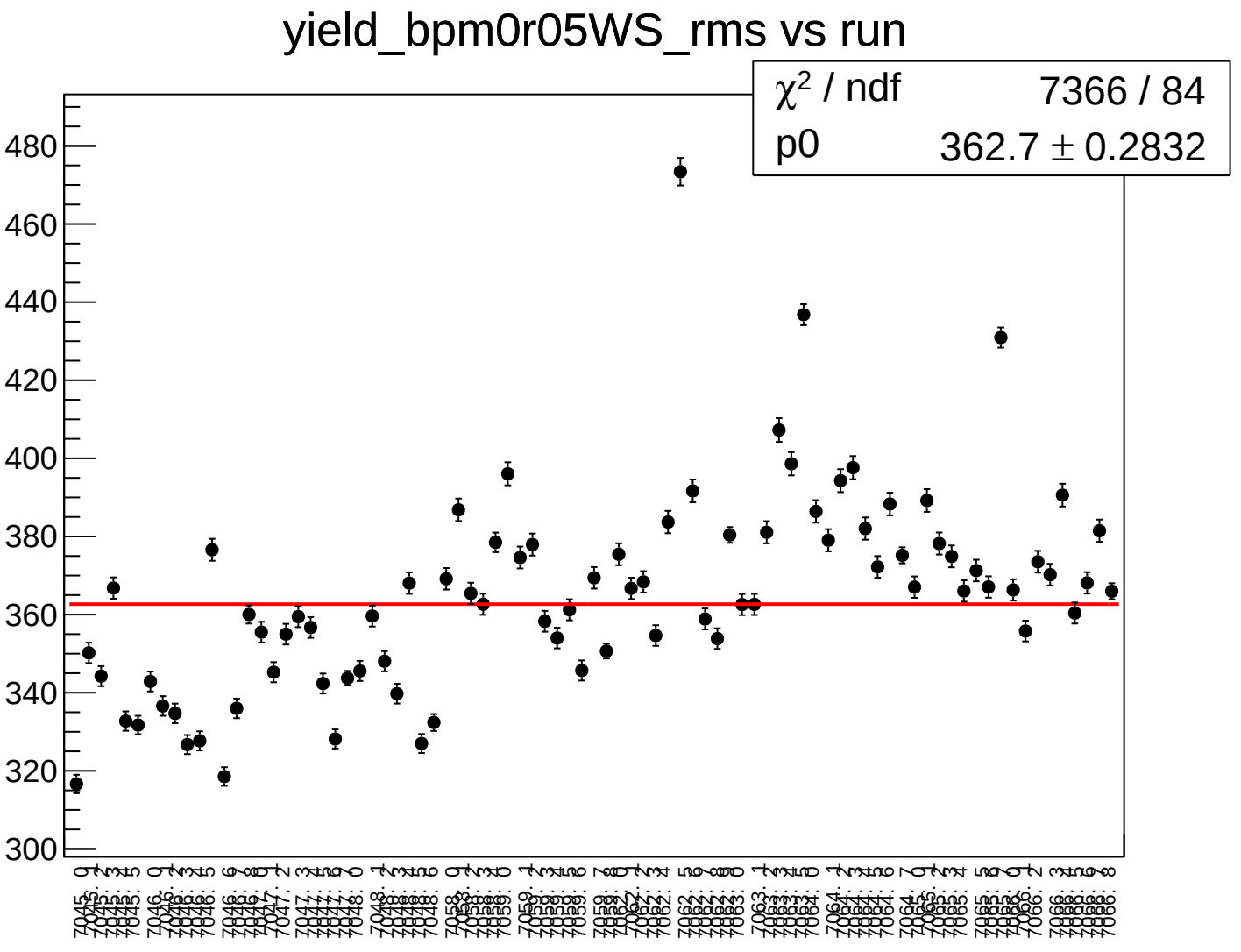

yield_bpm0l10WS_rms vs run
χ² / ndf 1.505e+04 / 84
p0 226.4 ± 0.1772
400
350
300
250
200

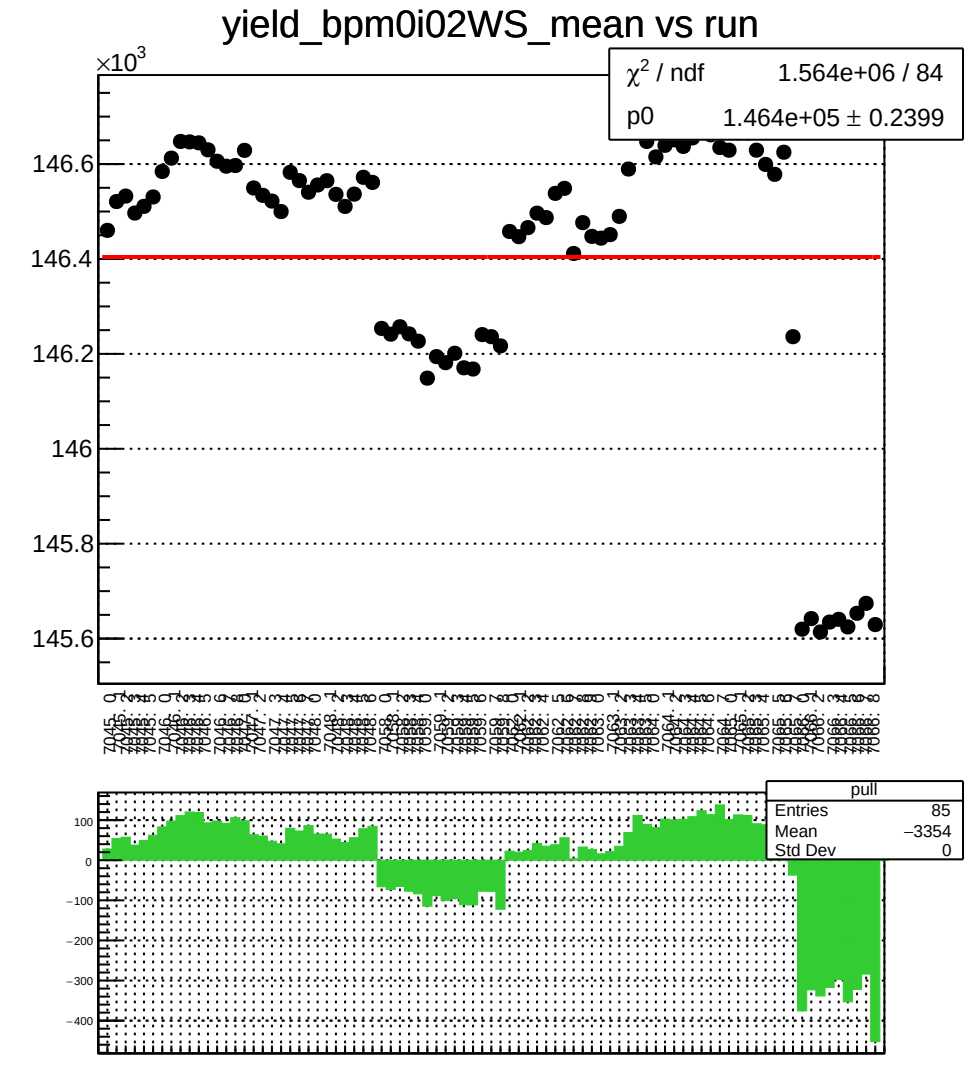

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.926e+05 / 84
p0 1.418e+05 ± 0.2571
141.9
141.8
141.7
141.6
141.5
pull
Entries 85
Mean −1685
Std Dev 0
pull1D
Entries 85
Mean 4.363
Std Dev 2.843

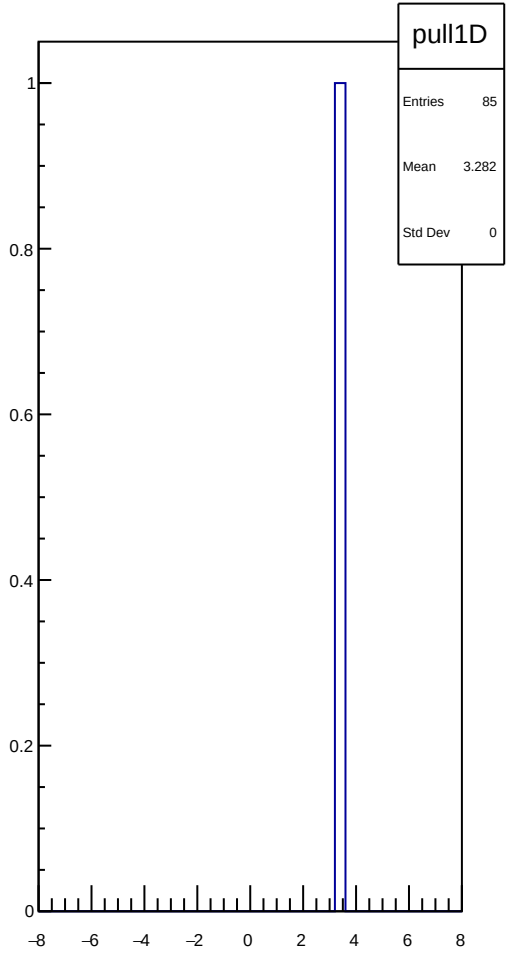

yield_bpm0r03WS_rms vs run
χ² / ndf 1.274e+04 / 84
p0 232.4 ± 0.1818
400
350
300
250
200

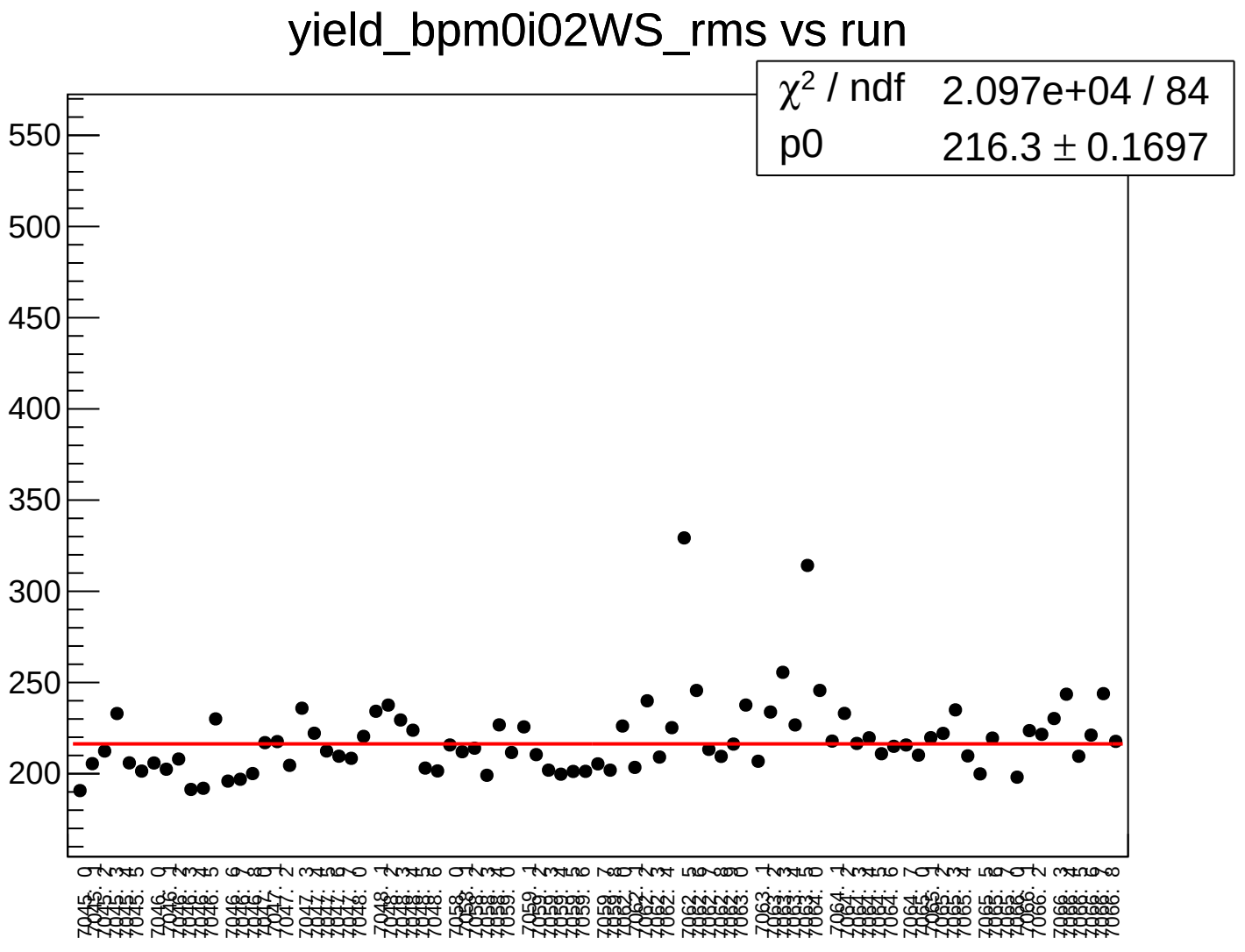

yield_bpm0r05WS_mean vs run
×10^3
132.1
132
131.9
131.8
131.7
131.6
131.5
131.4
131.3
χ² / ndf 2.207e+05 / 84
p0 1.317e+05 ± 0.4005
pull
Entries 85
Mean 1028
Std Dev 0
100
50
0
−50
−100

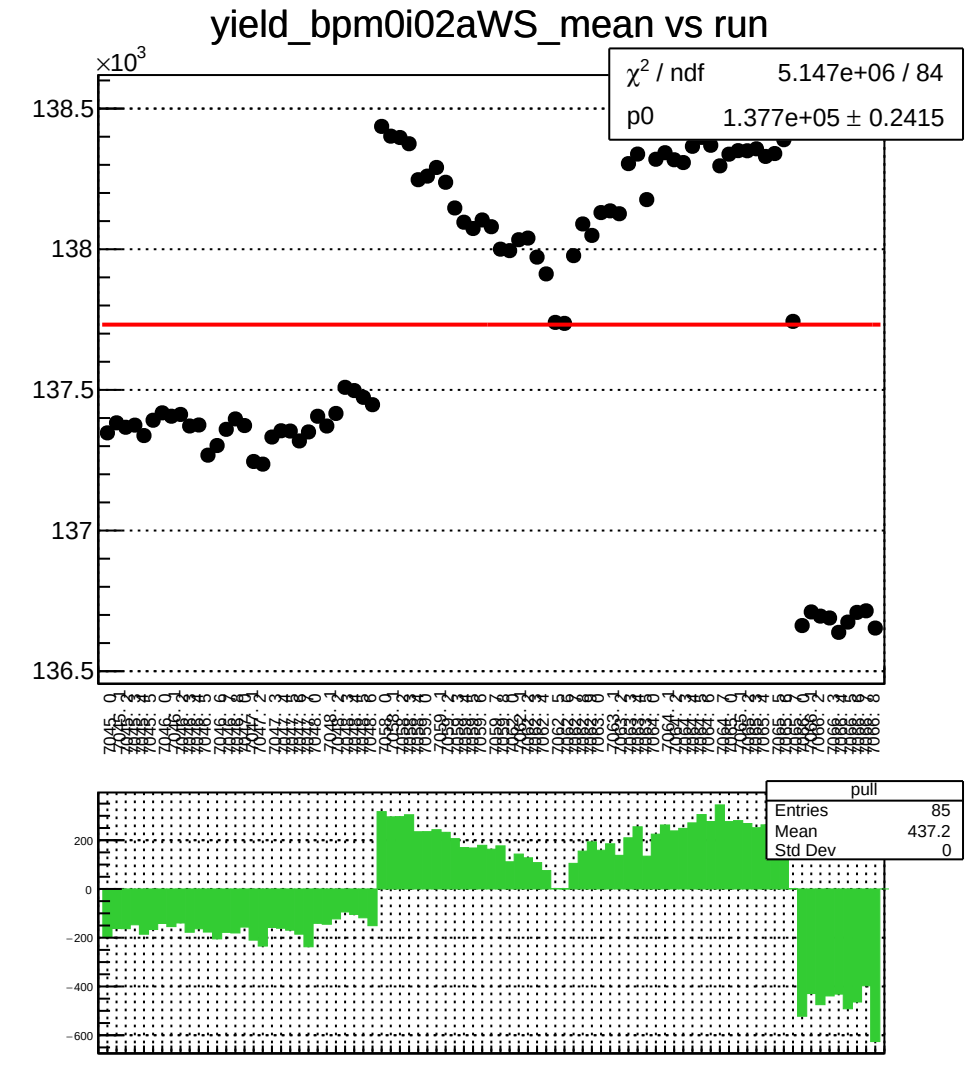

pull1D
Entries 85
Mean −0.9138
Std Dev 5.387
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

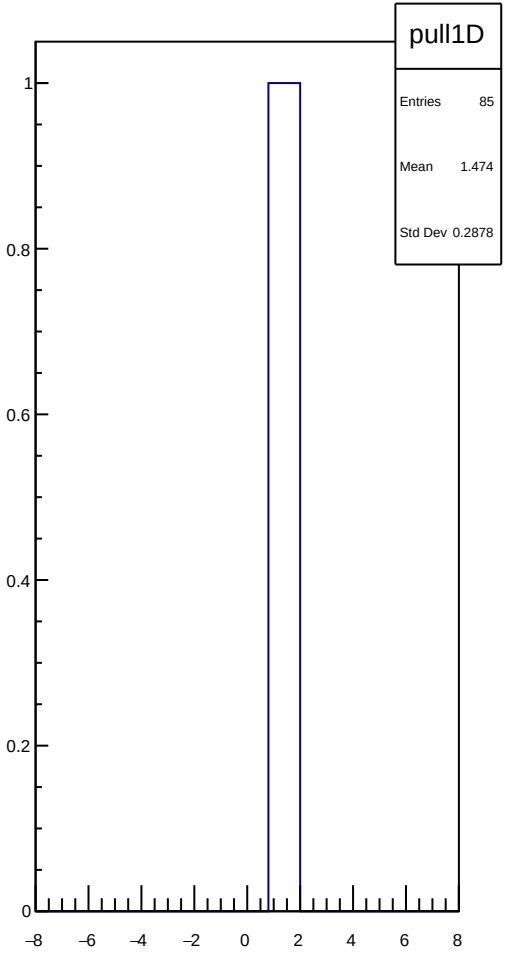

yield_bpm0r05WS_rms vs run
χ² / ndf 7366 / 84
p0 362.7 ± 0.2832
480
460
440
420
400
380
360
340
320
300

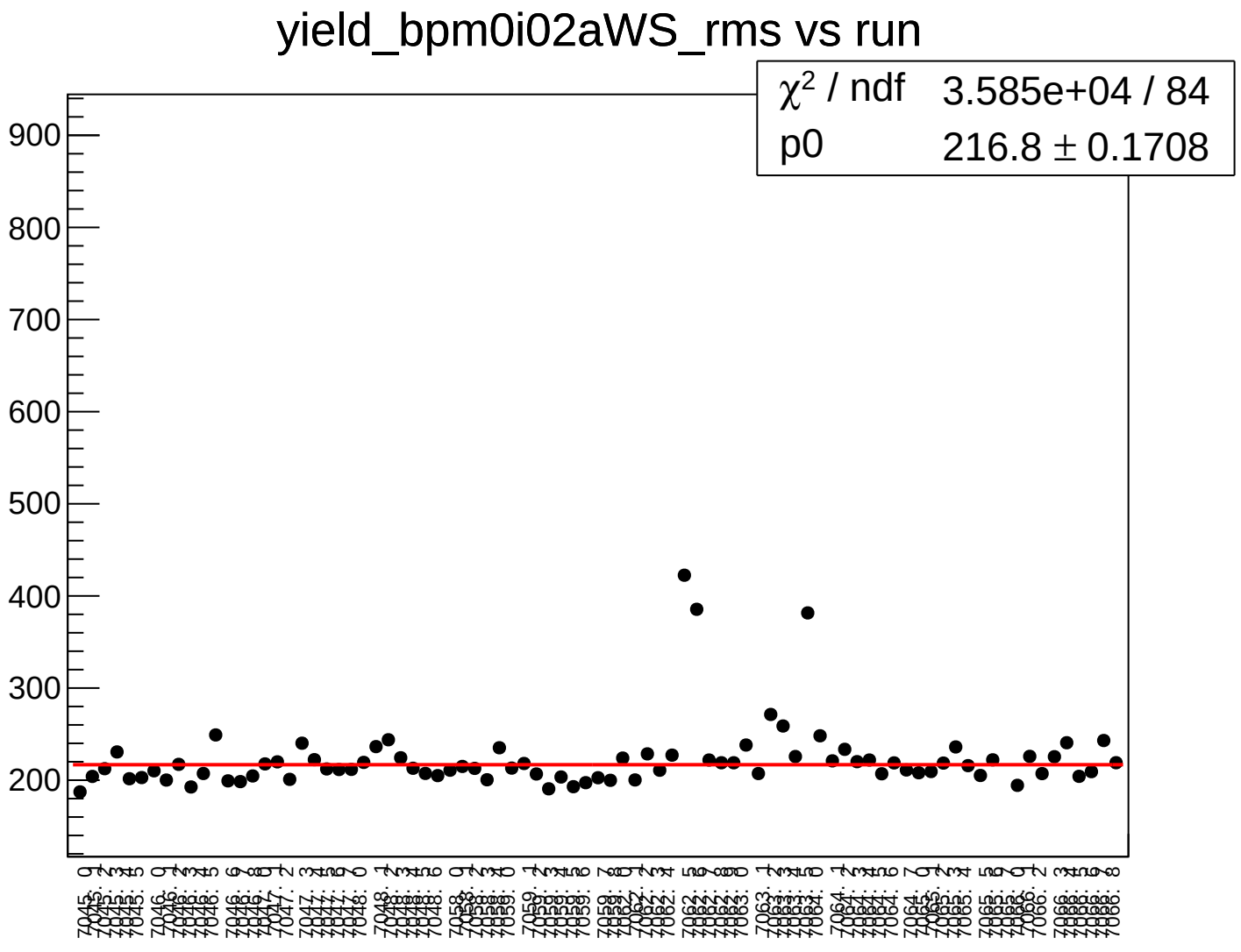

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.564e+06 / 84
p0 1.464e+05 ± 0.2399
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 85
Mean −3354
Std Dev 0
100
0
−100
−200
−300
−400

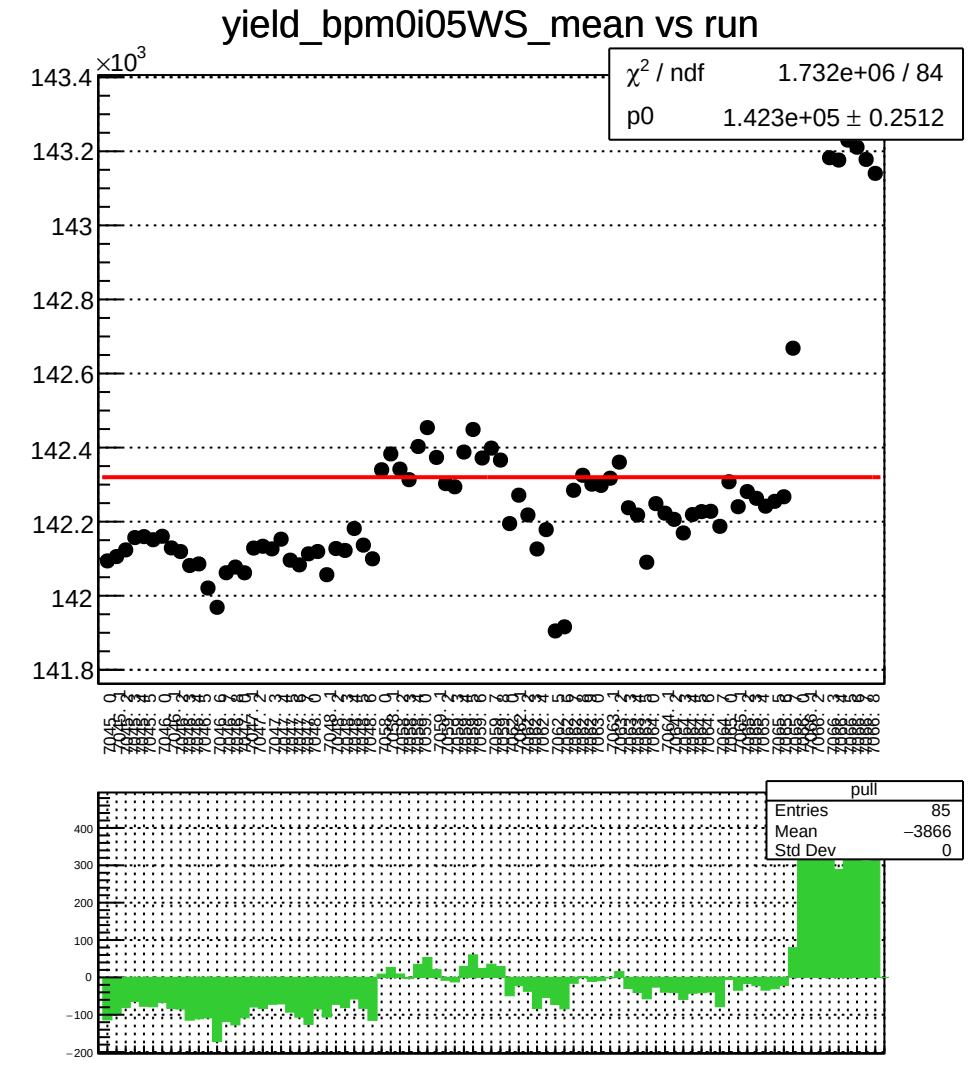

pull1D
Entries 85
Mean 3.282
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

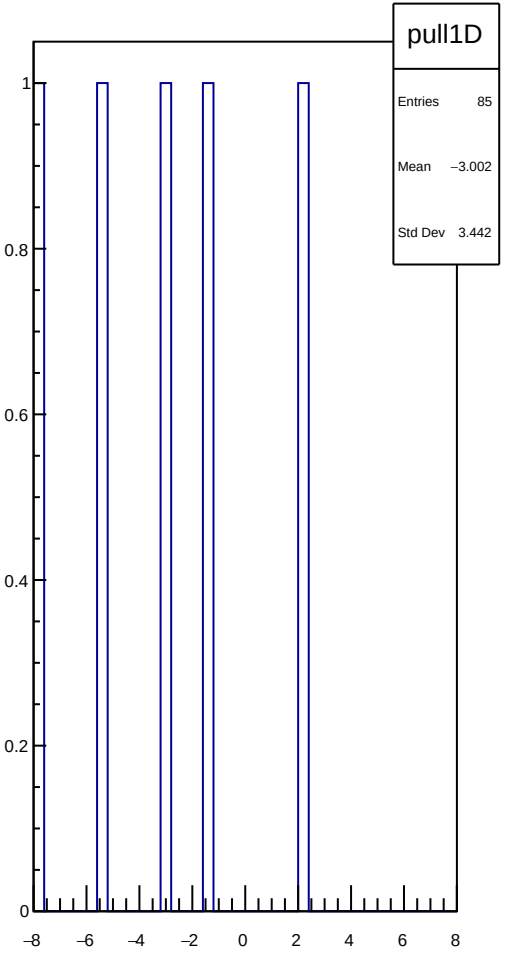

yield_bpm0i02WS_rms vs run
χ² / ndf 2.097e+04 / 84
p0 216.3 ± 0.1697
550
500
450
400
350
300
250
200

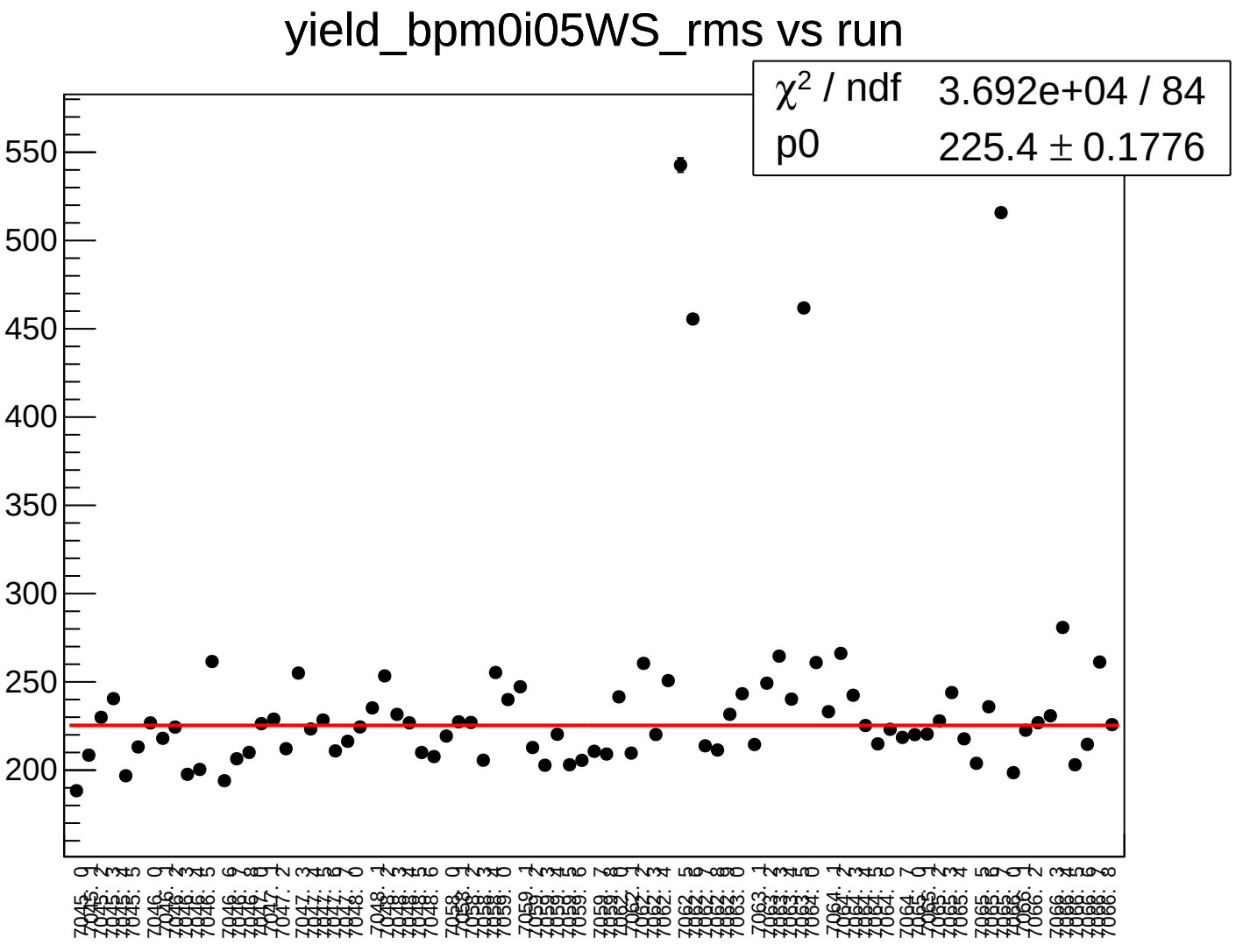

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 5.147e+06 / 84
p0 1.377e+05 ± 0.2415
138.5
138
137.5
137
136.5
pull
Entries 85
Mean 437.2
Std Dev 0
200
0
−200
−400
−600

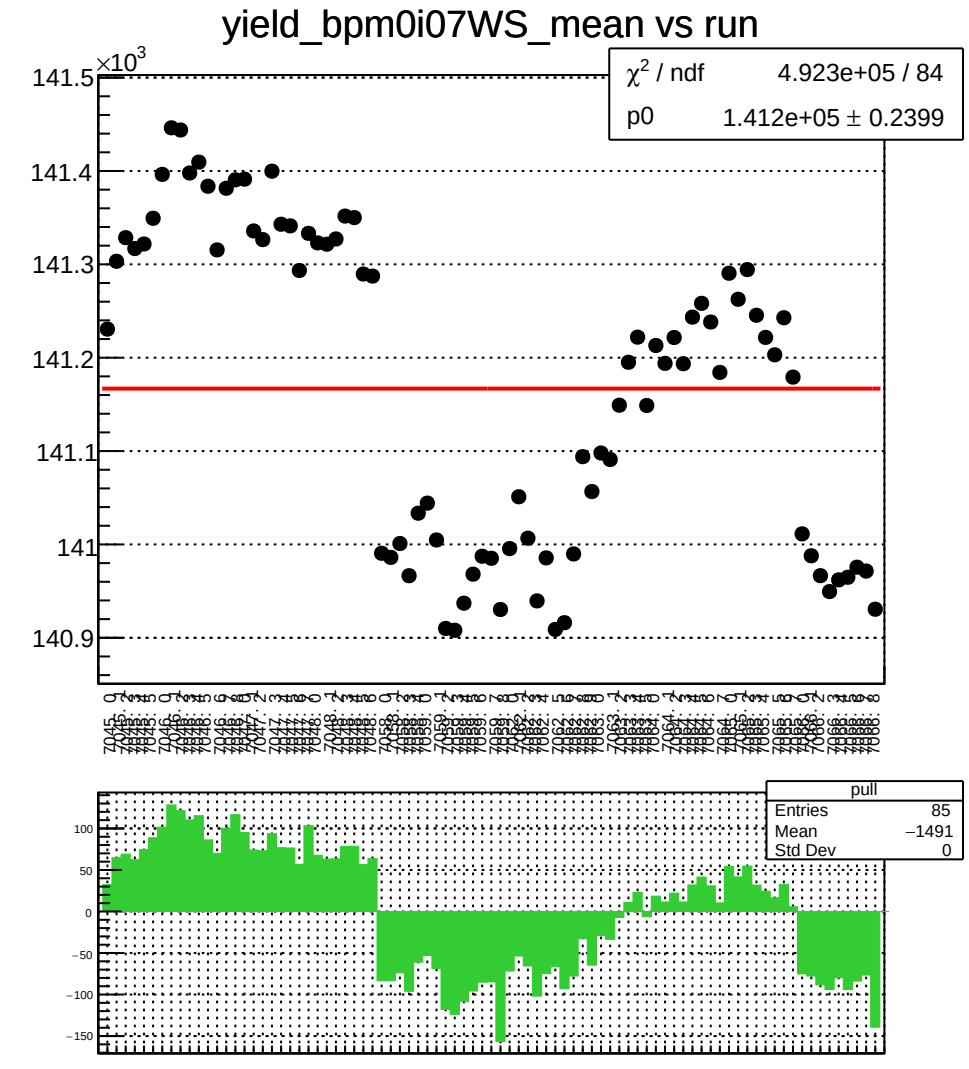

pull1D
Entries 85
Mean 1.474
Std Dev 0.2878
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

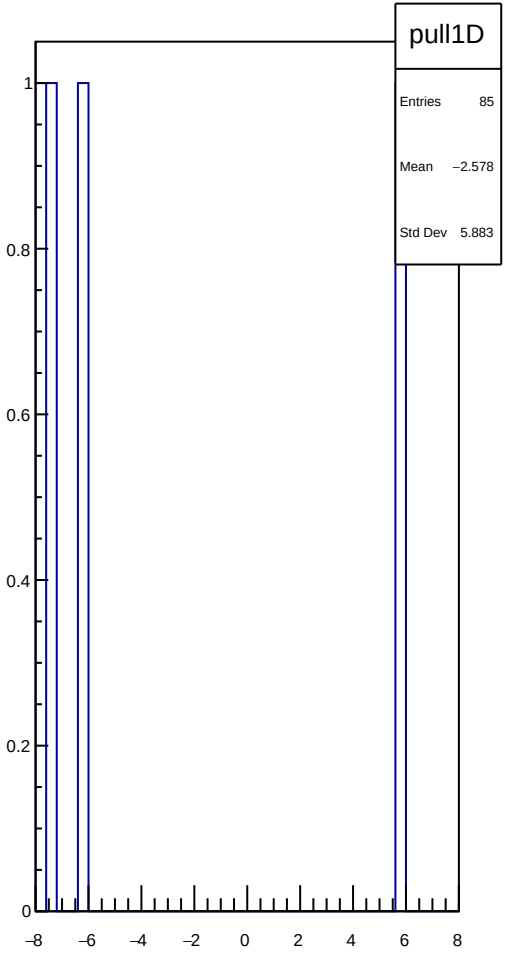

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.585e+04 / 84
p0 216.8 ± 0.1708
900
800
700
600
500
400
300
200

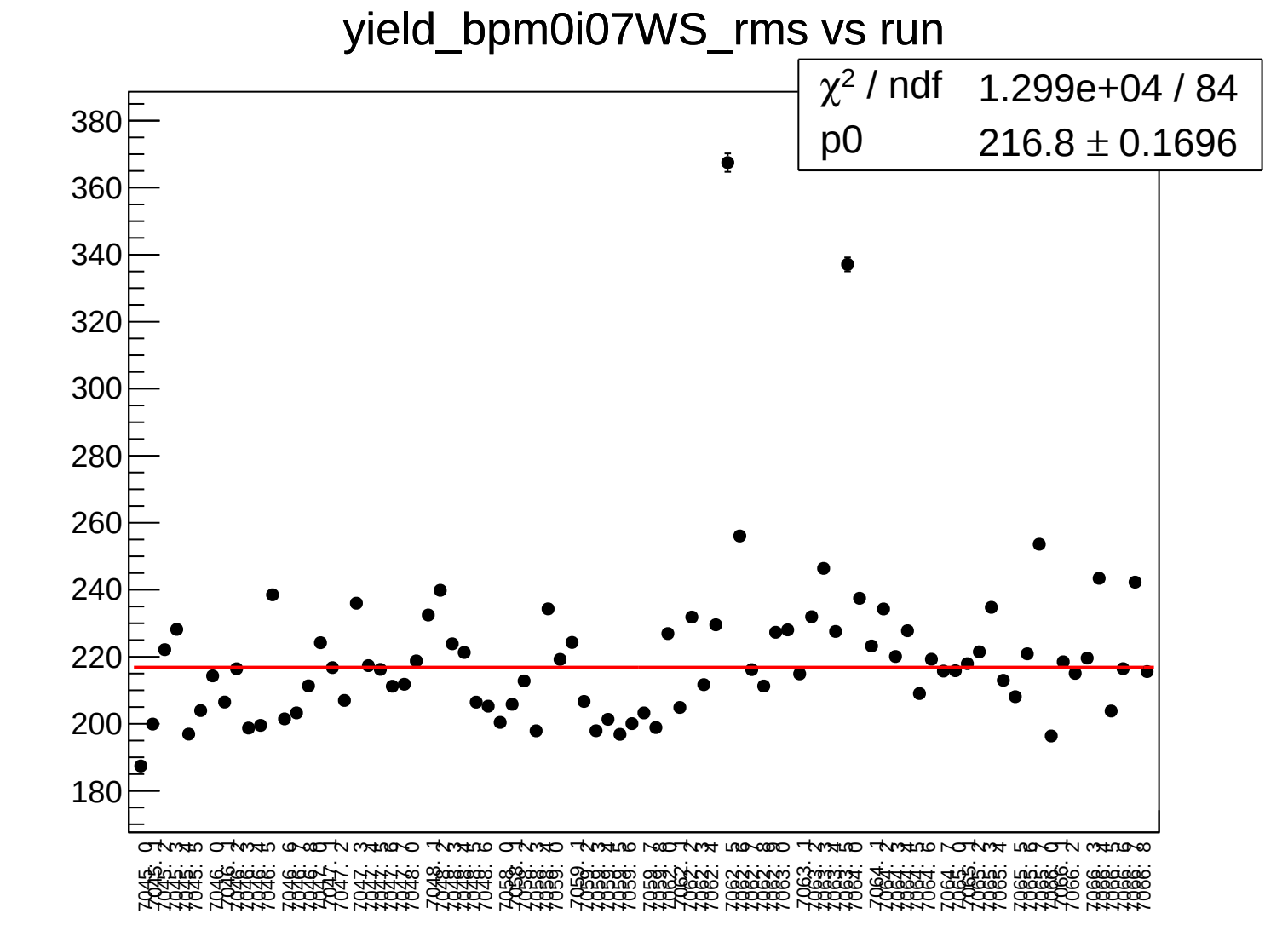

yield_bpm0i05WS_mean vs run
χ² / ndf 1.732e+06 / 84
p0 1.423e+05 ± 0.2512
×10³
143.4
143.2
143
142.8
142.6
142.4
142.2
142
141.8
pull
Entries 85
Mean −3866
Std Dev 0
400
300
200
100
0
−100
−200

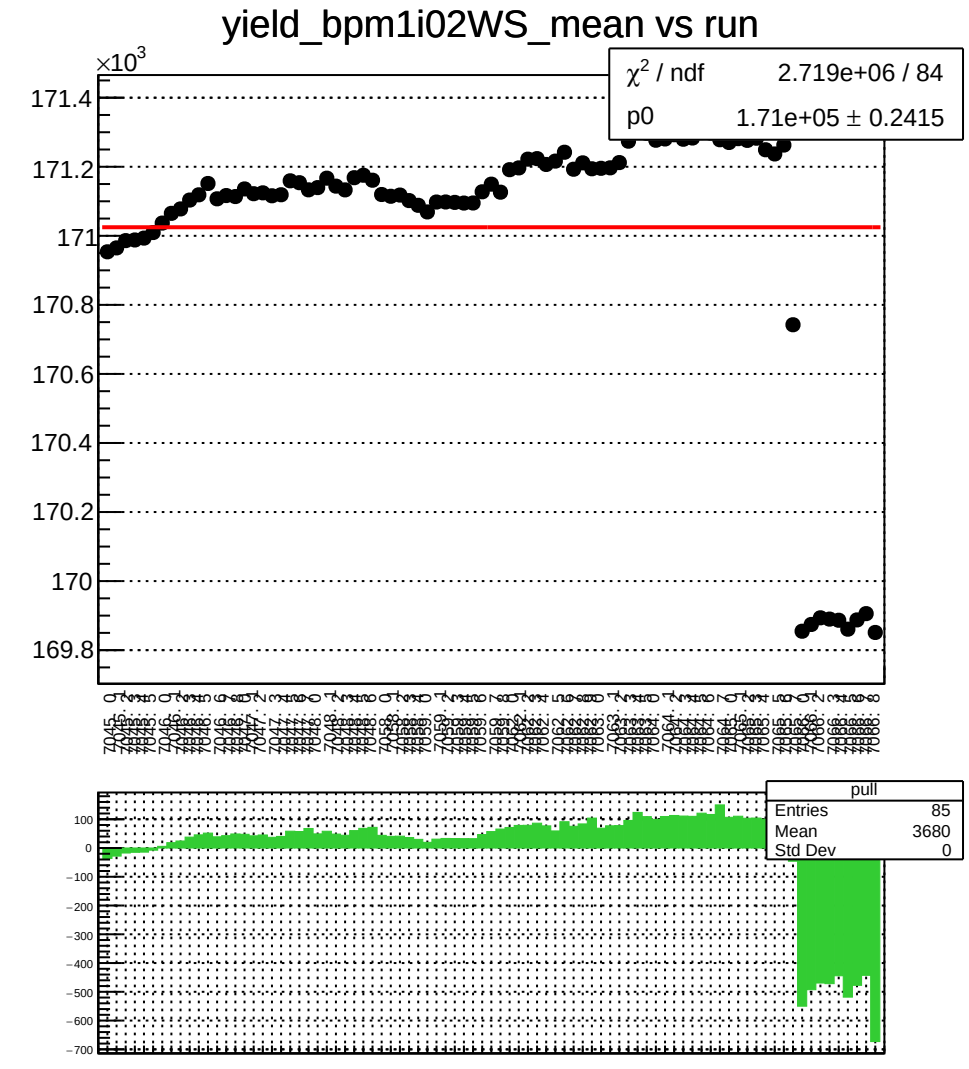

pull1D
Entries 85
Mean −3.002
Std Dev 3.442
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

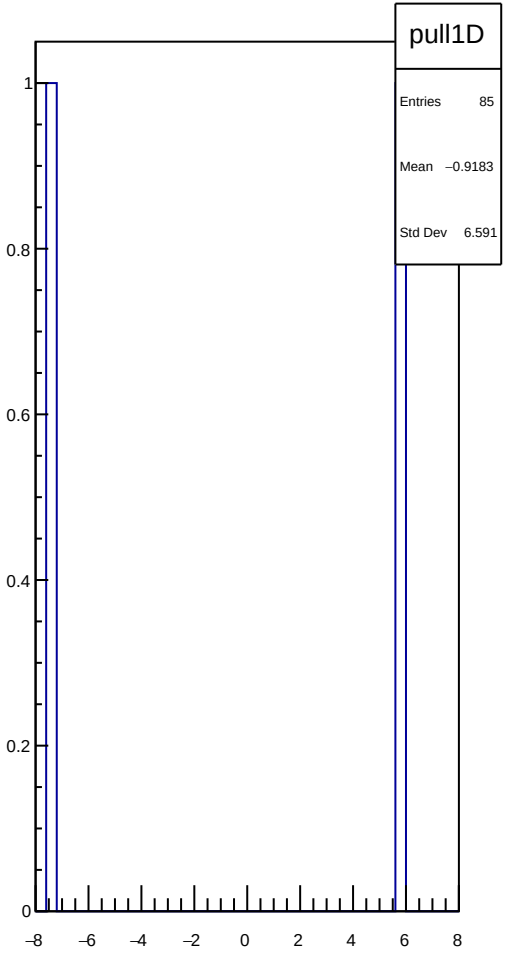

yield_bpm0i05WS_rms vs run
χ² / ndf 3.692e+04 / 84
p0 225.4 ± 0.1776
550
500
450
400
350
300
250
200

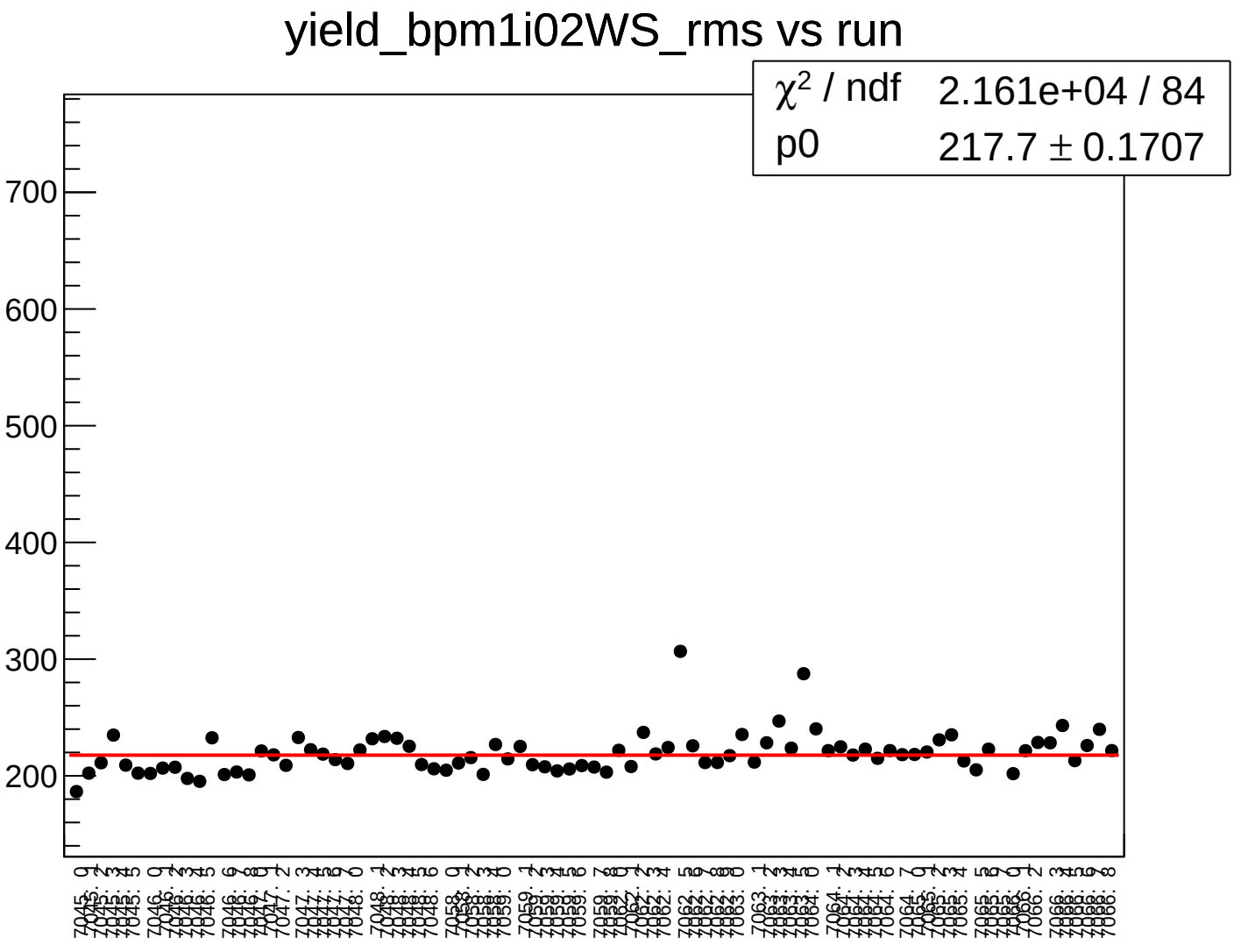

yield_bpm0i07WS_mean vs run
χ² / ndf 4.923e+05 / 84
p0 1.412e+05 ± 0.2399
×10³
141.5
141.4
141.3
141.2
141.1
141
140.9
pull
Entries 85
Mean −1491
Std Dev 0
100
50
0
−50
−100
−150

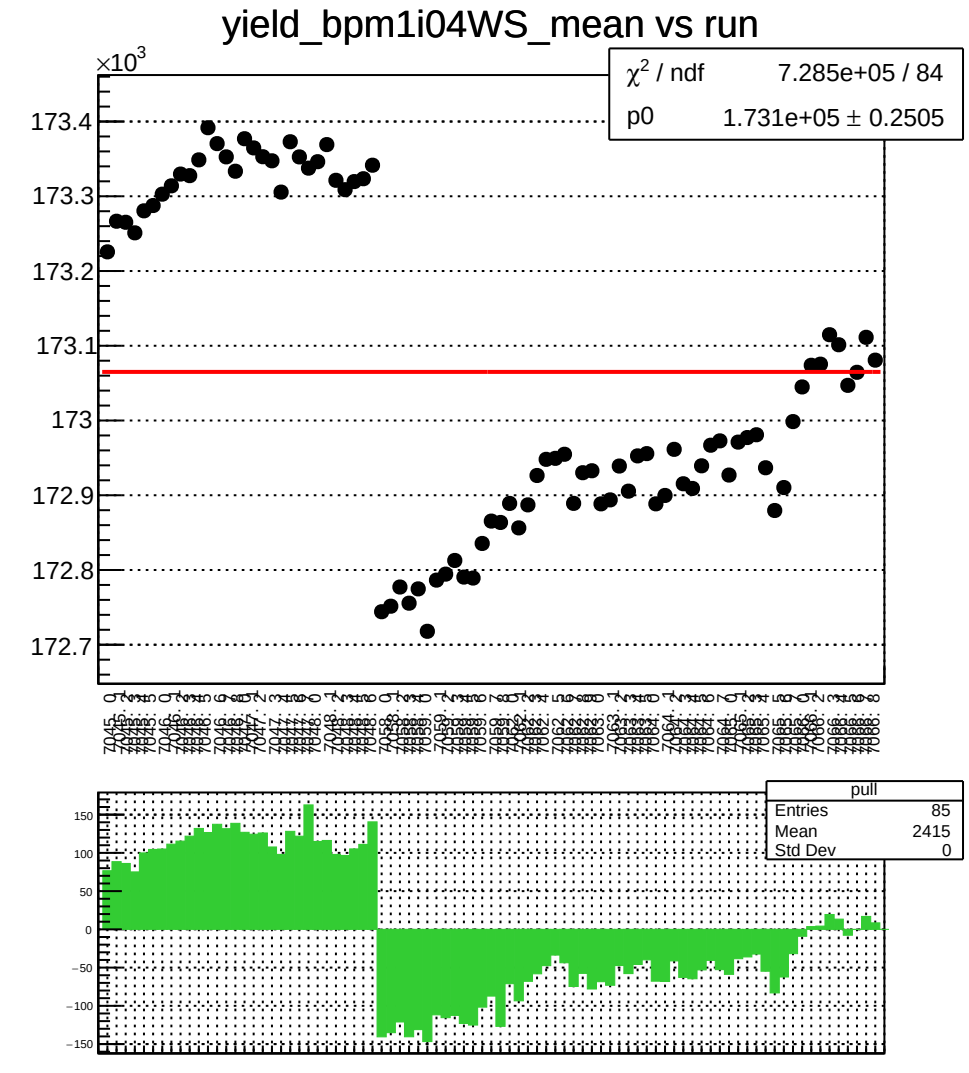

pull1D
Entries 85
Mean −2.578
Std Dev 5.883
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

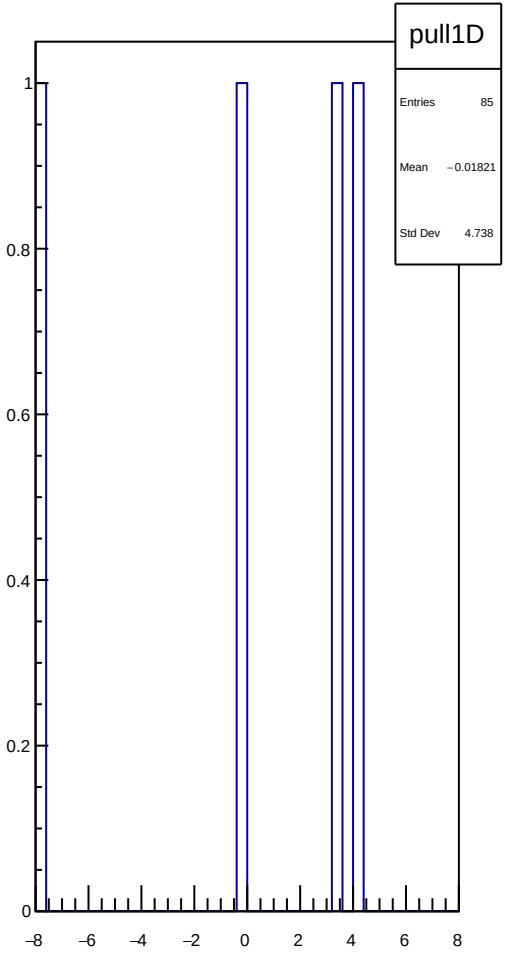

yield_bpm0i07WS_rms vs run
χ² / ndf 1.299e+04 / 84
p0 216.8 ± 0.1696
380
360
340
320
300
280
260
240
220
200
180

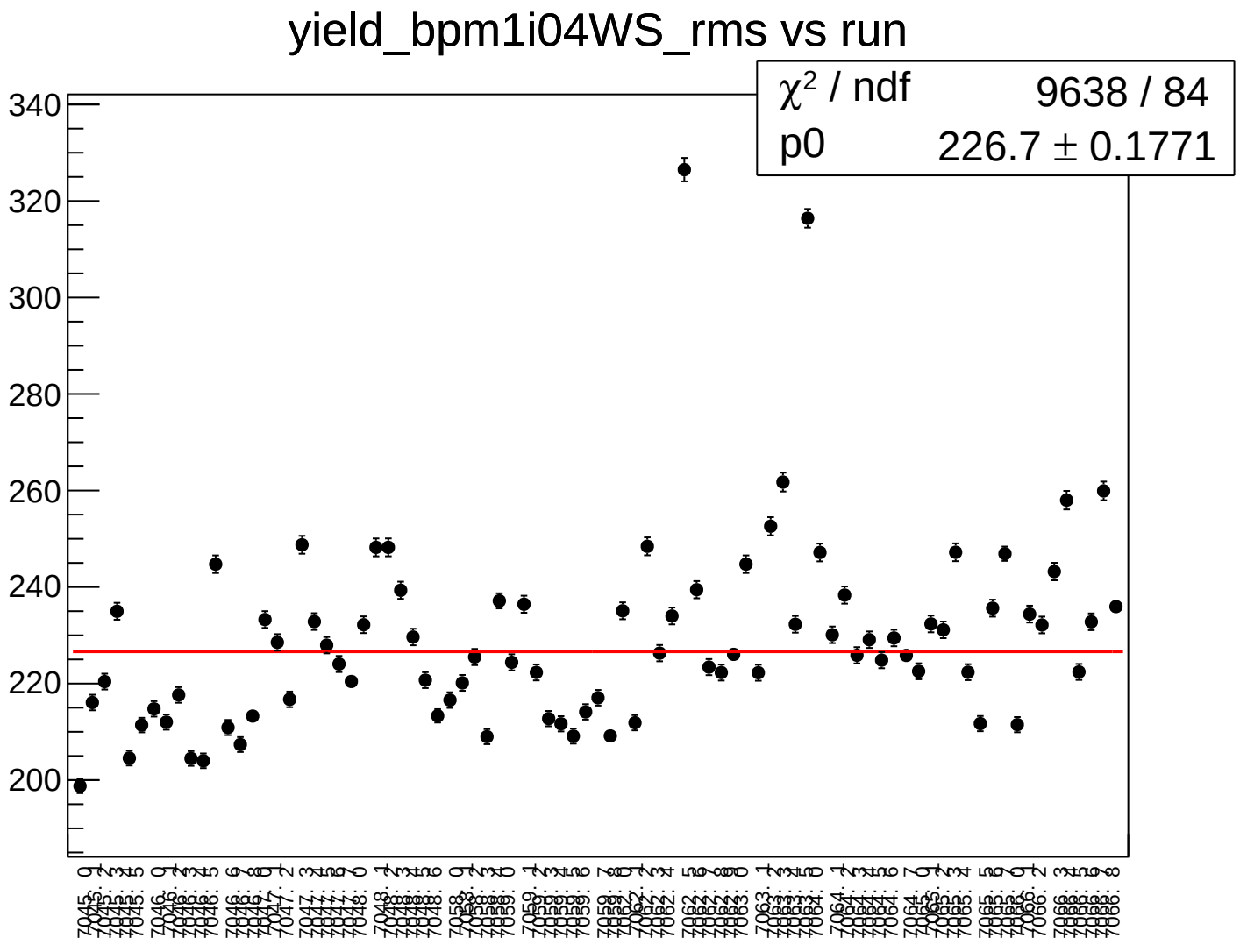

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.719e+06 / 84
p0 1.71e+05 ± 0.2415
171.4
171.2
171
170.8
170.6
170.4
170.2
170
169.8
pull
Entries 85
Mean 3680
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

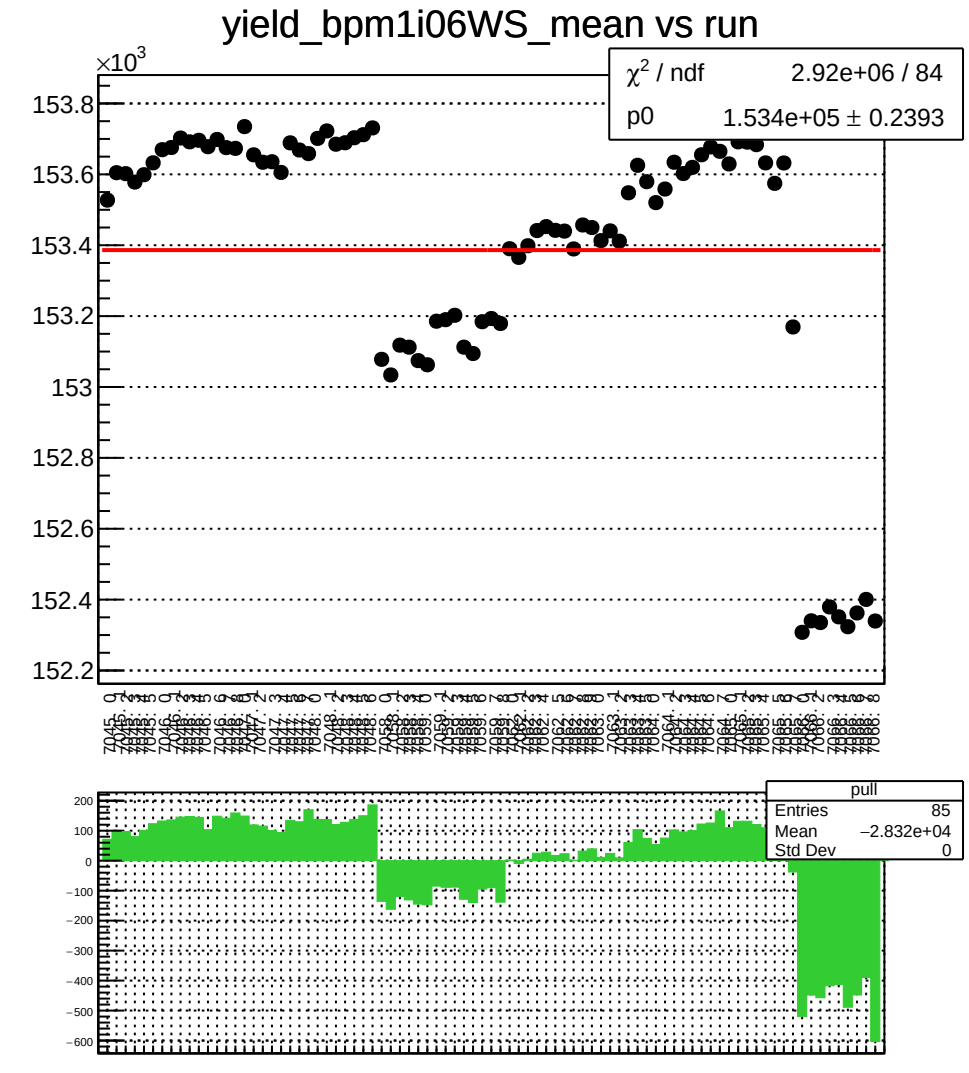

pull1D
Entries 85
Mean −0.9183
Std Dev 6.591
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

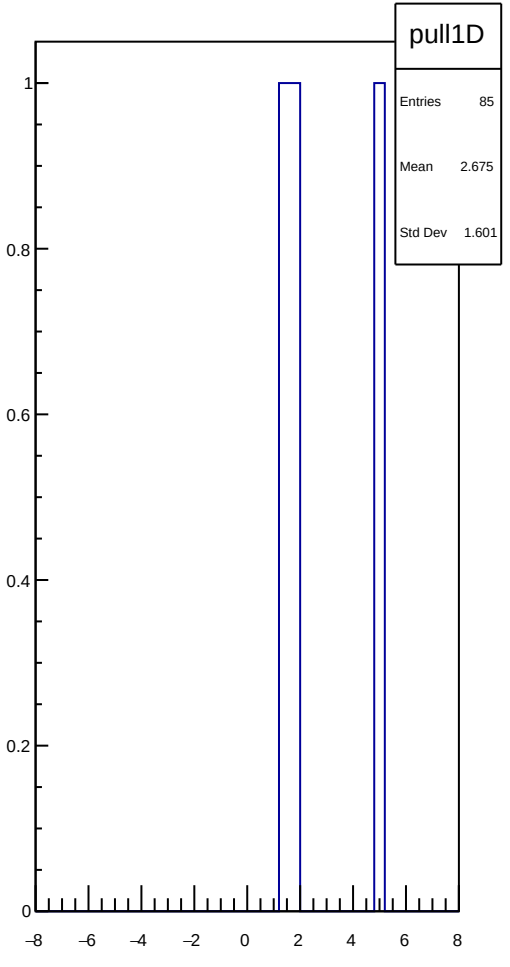

yield_bpm1i02WS_rms vs run
χ² / ndf 2.161e+04 / 84
p0 217.7 ± 0.1707
700
600
500
400
300
200

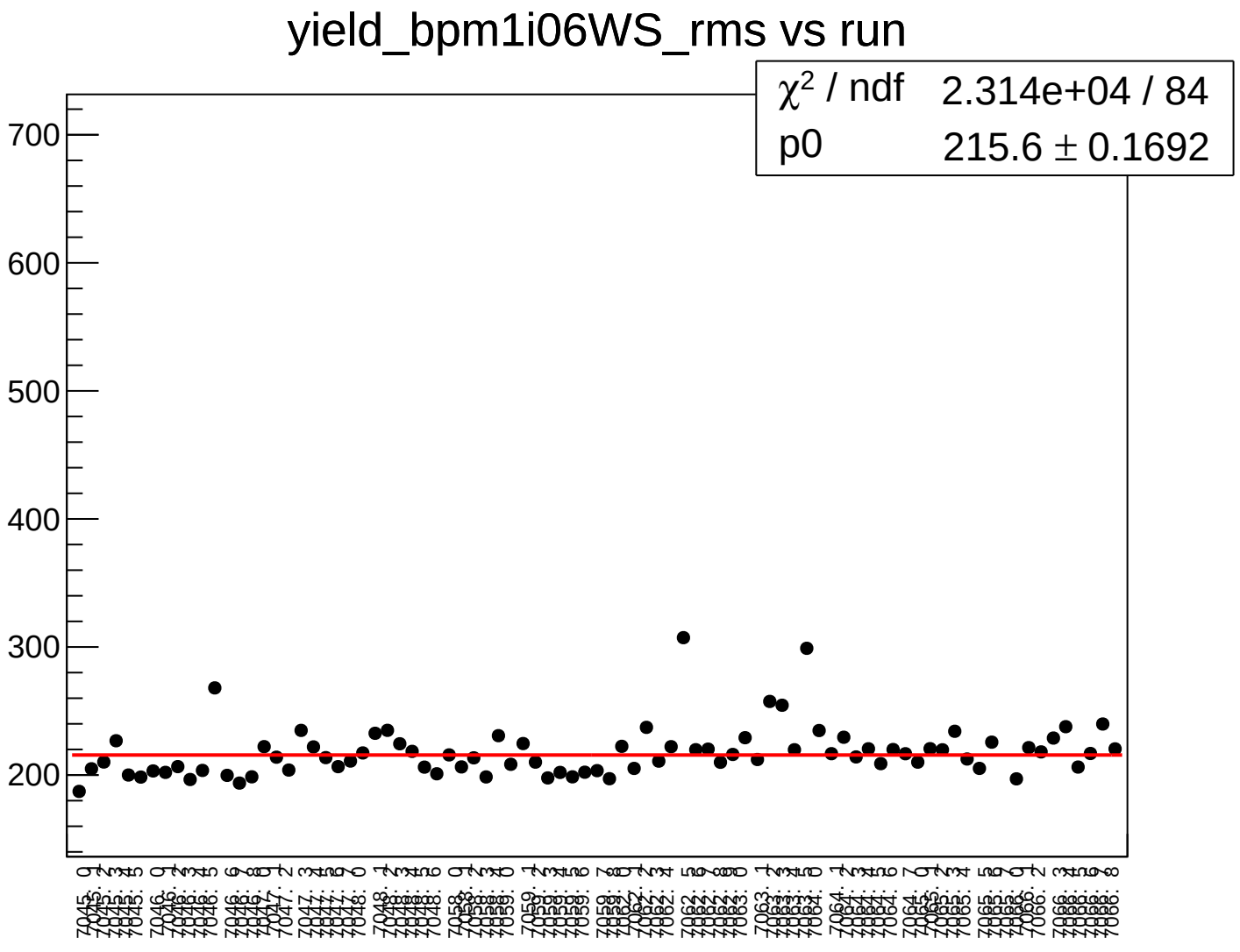

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 7.285e+05 / 84
p0 1.731e+05 ± 0.2505
173.4
173.3
173.2
173.1
173
172.9
172.8
172.7
pull
Entries 85
Mean 2415
Std Dev 0
150
100
50
0
−50
−100
−150

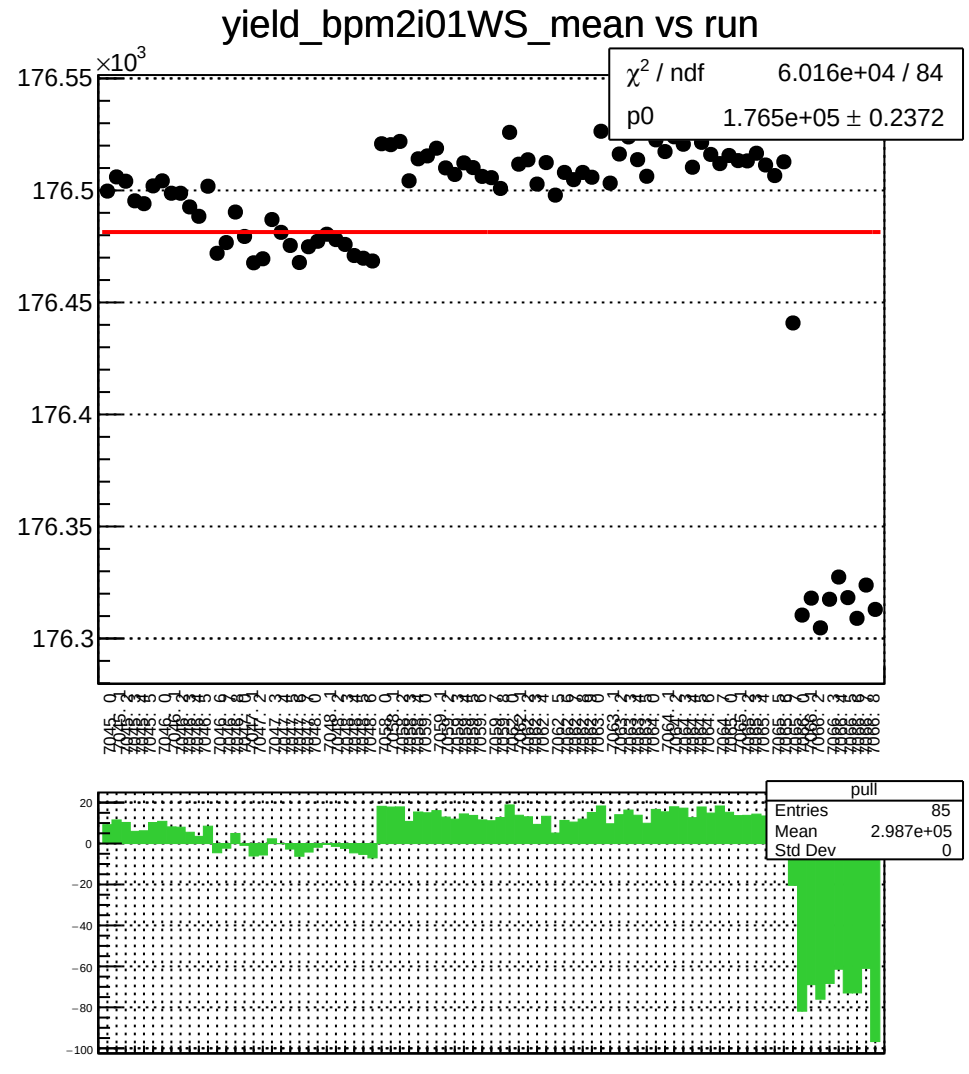

pull1D
Entries 85
Mean −0.01821
Std Dev 4.738
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

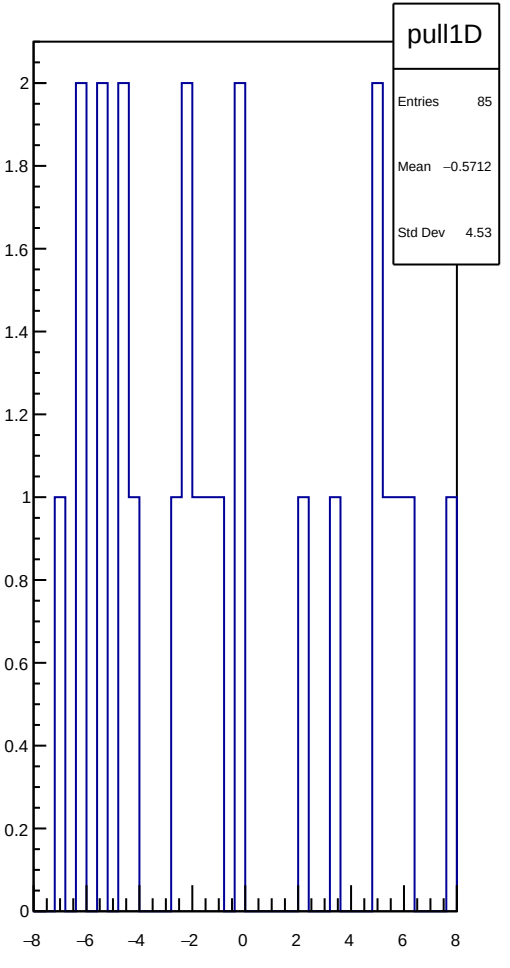

yield_bpm1i04WS_rms vs run
χ² / ndf 9638 / 84
p0 226.7 ± 0.1771
340
320
300
280
260
240
220
200

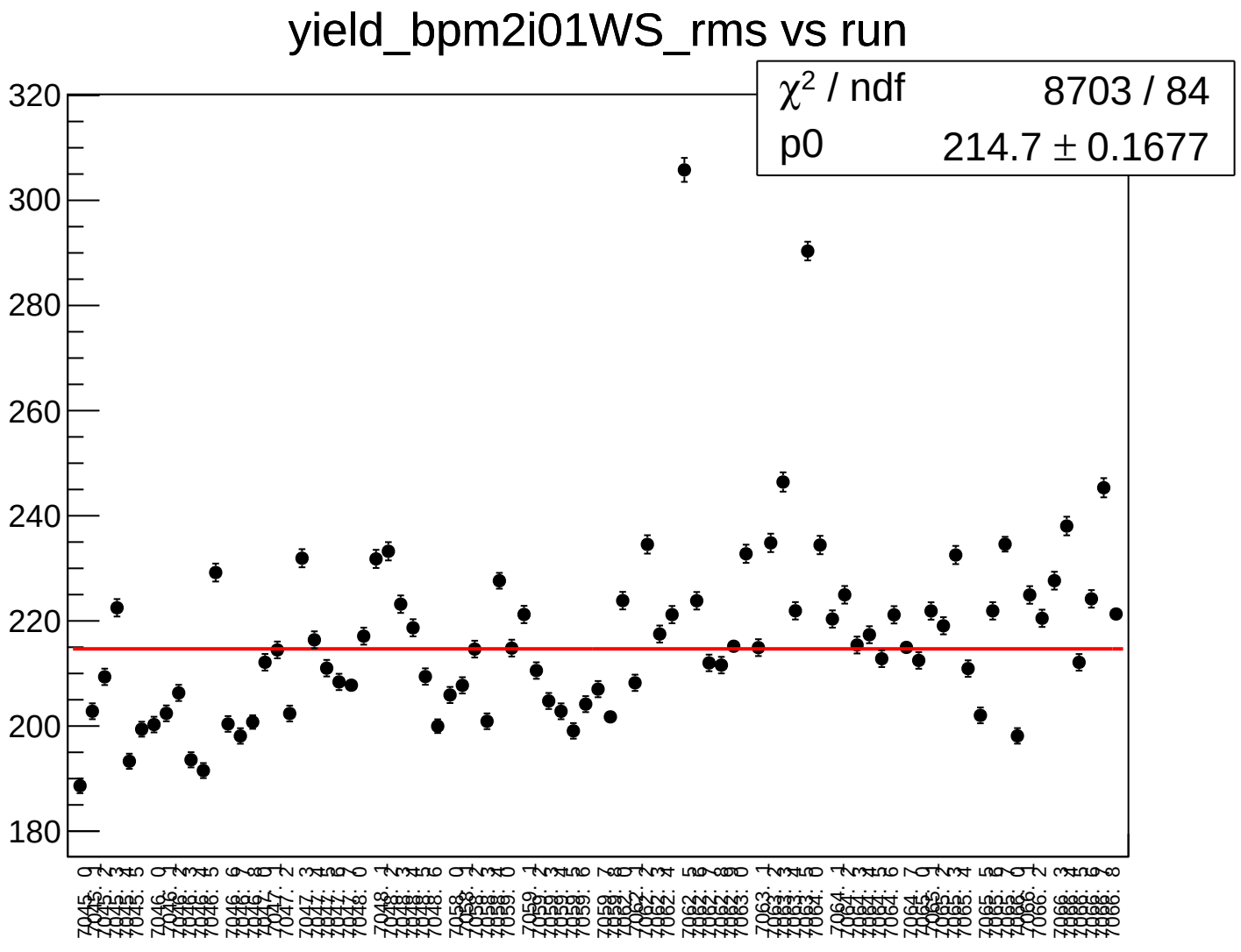

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.92e+06 / 84
p0 1.534e+05 ± 0.2393
153.8
153.6
153.4
153.2
153
152.8
152.6
152.4
152.2
pull
Entries 85
Mean −2.832e+04
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

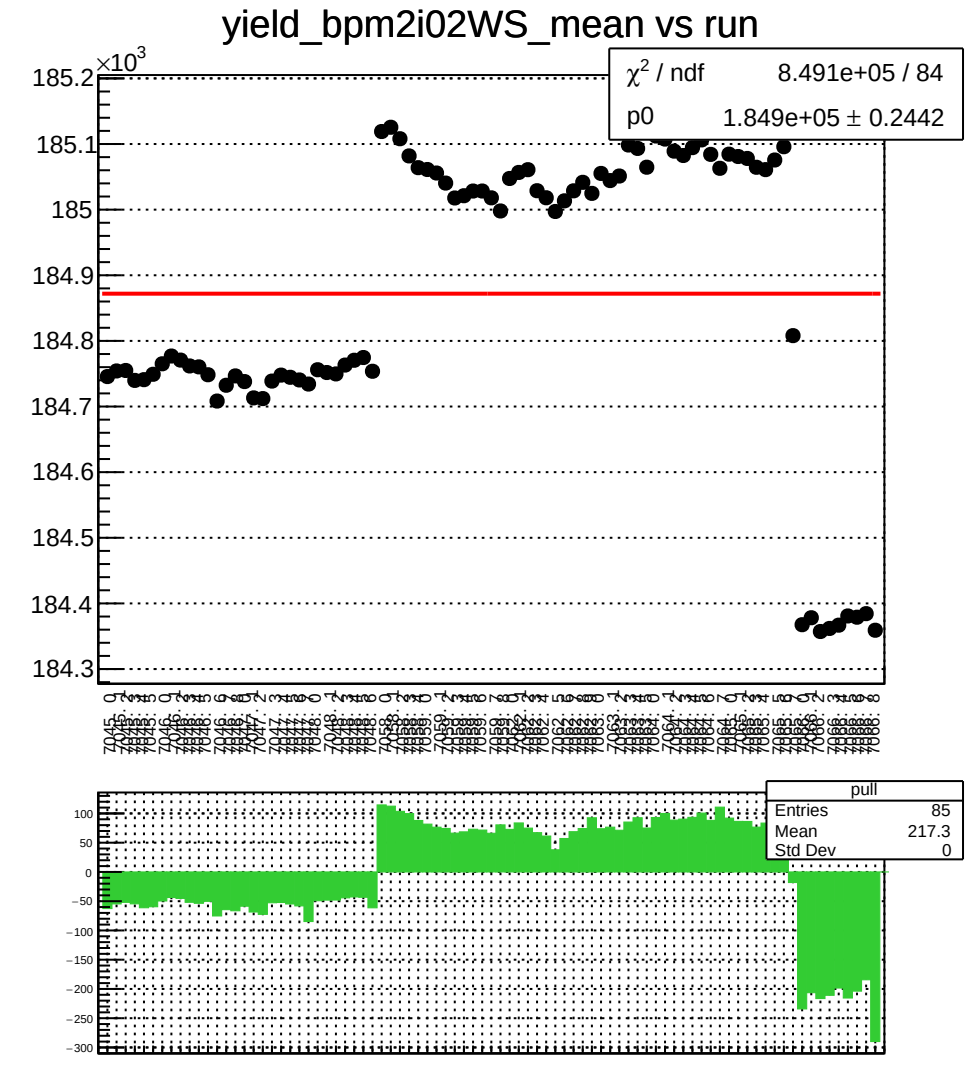

pull1D
Entries 85
Mean 2.675
Std Dev 1.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

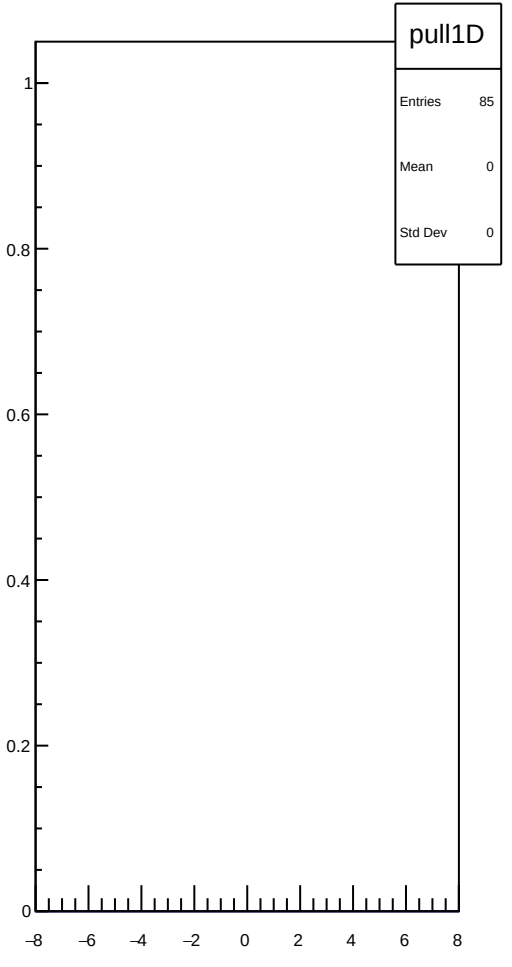

yield_bpm1i06WS_rms vs run
χ² / ndf 2.314e+04 / 84
p0 215.6 ± 0.1692
700
600
500
400
300
200

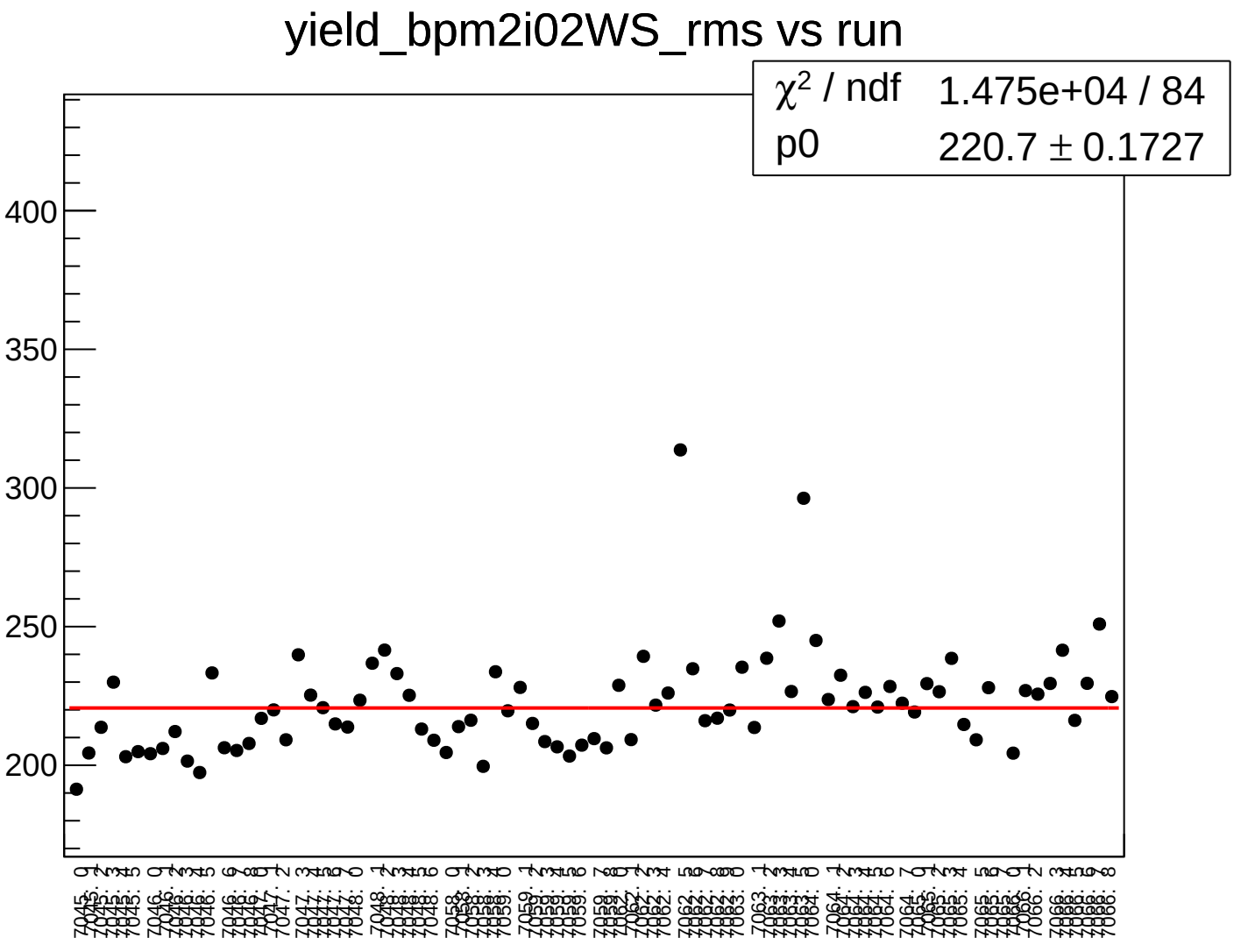

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 6.016e+04 / 84
p0 1.765e+05 ± 0.2372
176.55
176.5
176.45
176.4
176.35
176.3
pull
Entries 85
Mean 2.987e+05
Std Dev 0
20
0
−20
−40
−60
−80
−100

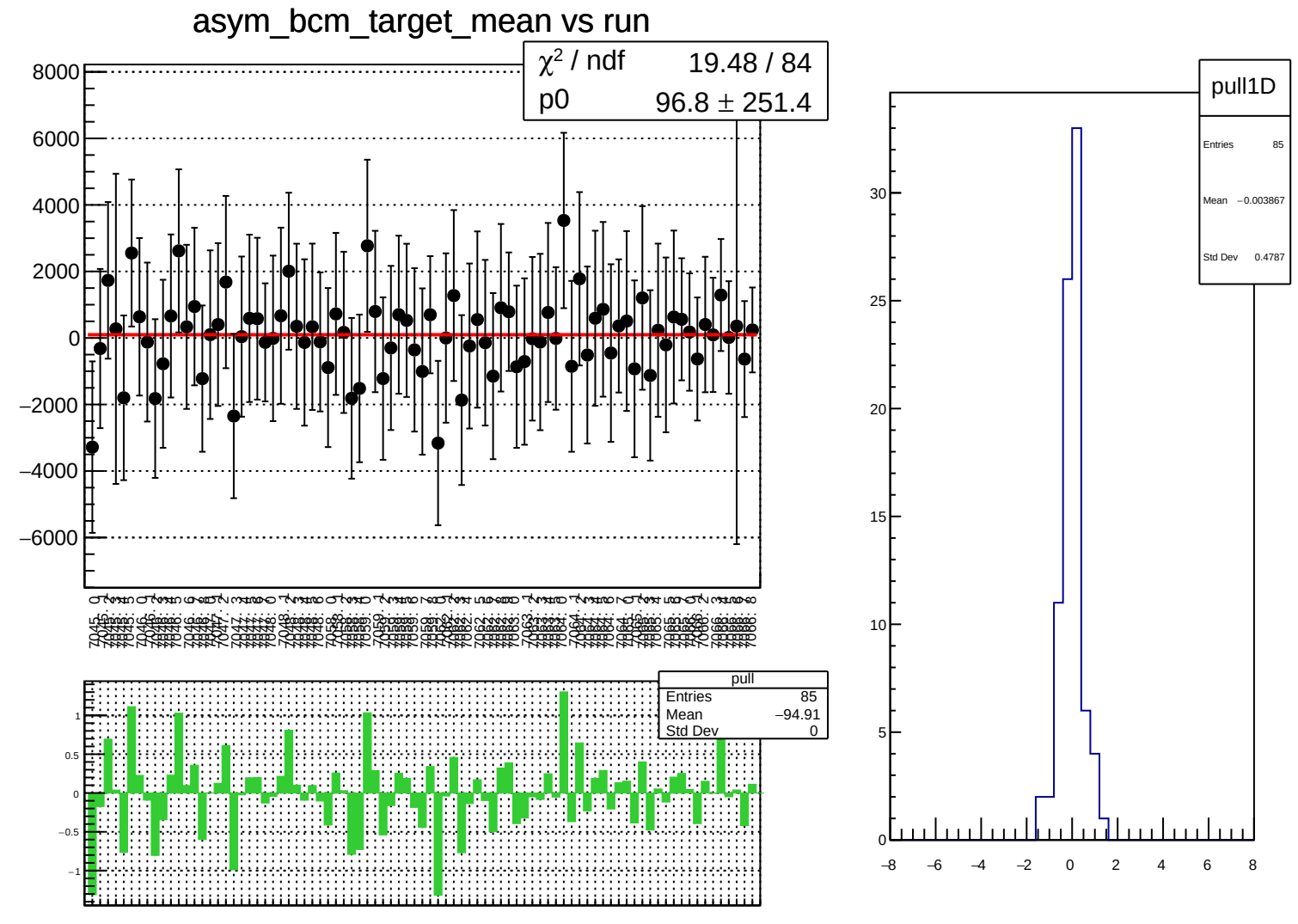

pull1D
Entries 85
Mean −0.5712
Std Dev 4.53
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

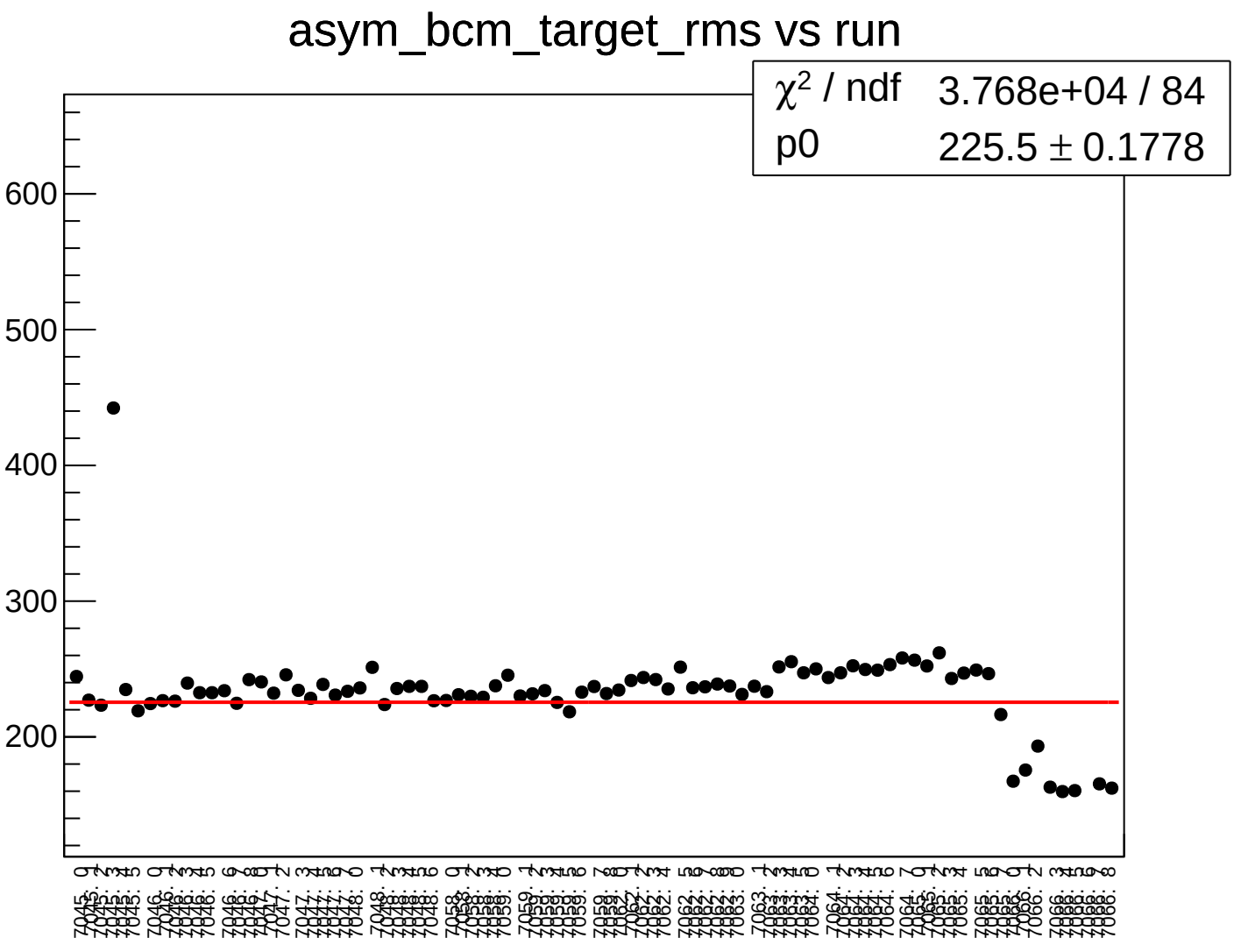

yield_bpm2i01WS_rms vs run
χ² / ndf 8703 / 84
p0 214.7 ± 0.1677
320
300
280
260
240
220
200
180

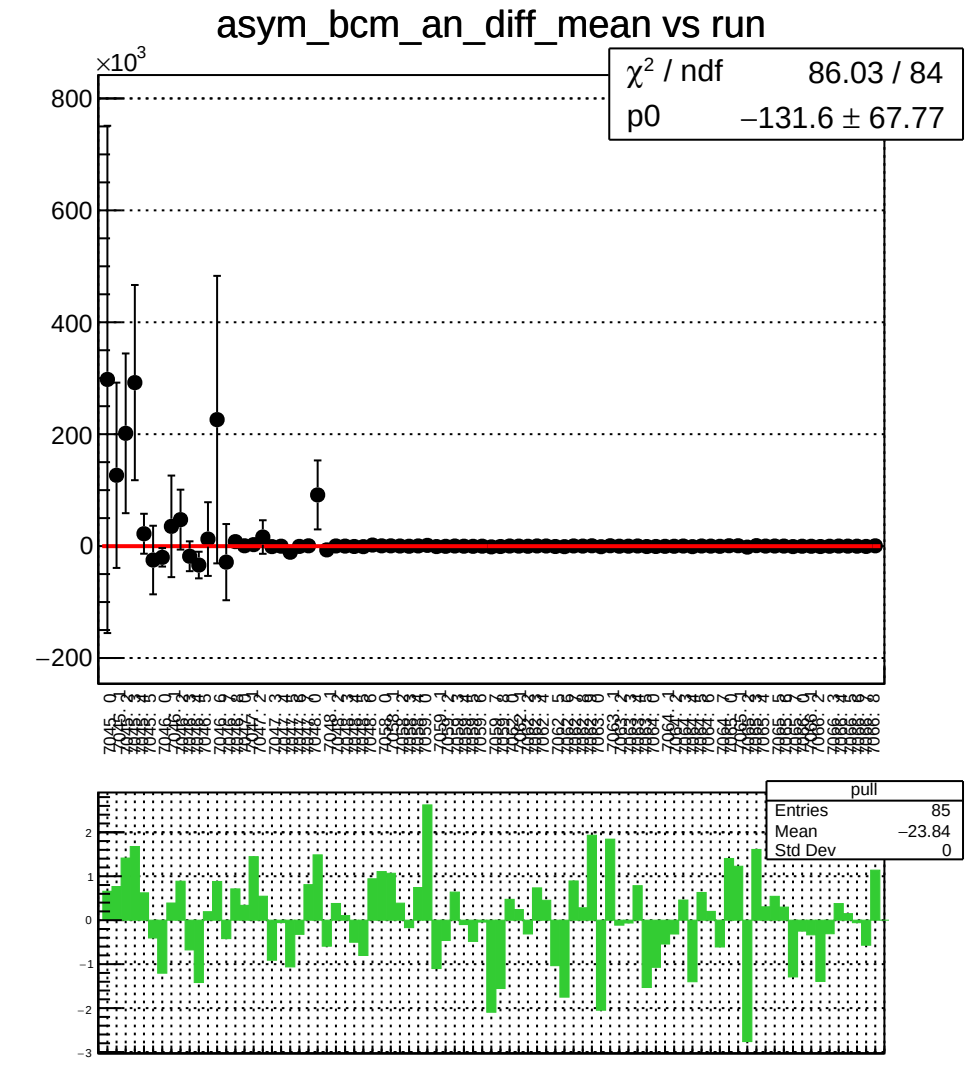

yield_bpm2i02WS_mean vs run
×10^3
185.2
185.1
185
184.9
184.8
184.7
184.6
184.5
184.4
184.3
χ² / ndf 8.491e+05 / 84
p0 1.849e+05 ± 0.2442
pull
Entries 85
Mean 217.3
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

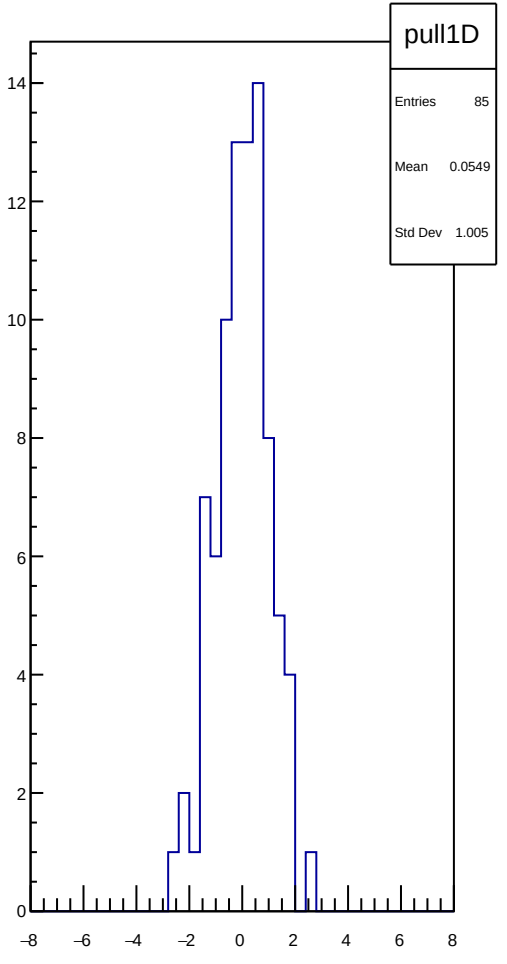

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

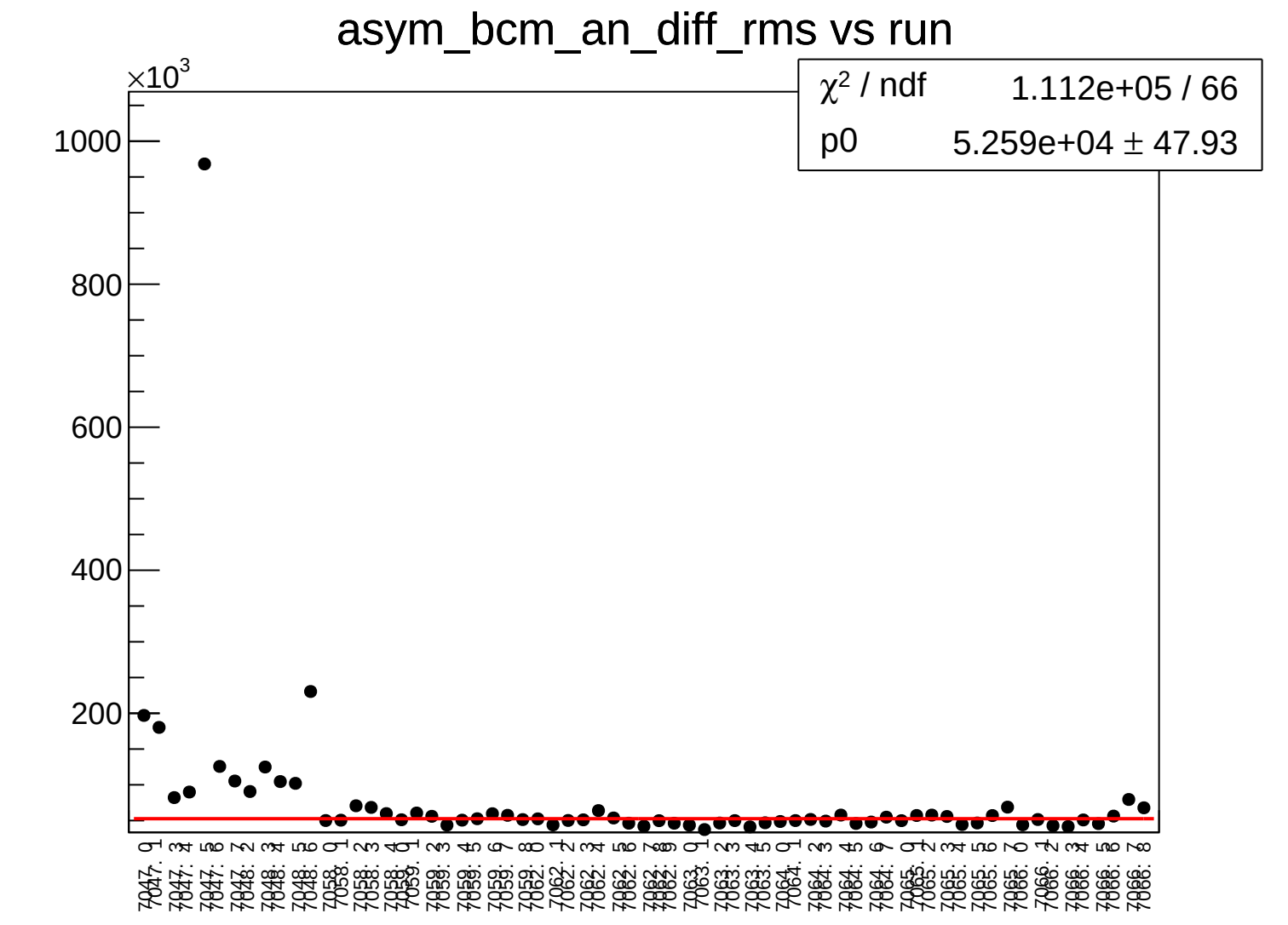

yield_bpm2i02WS_rms vs run
χ² / ndf 1.475e+04 / 84
p0 220.7 ± 0.1727
400
350
300
250
200

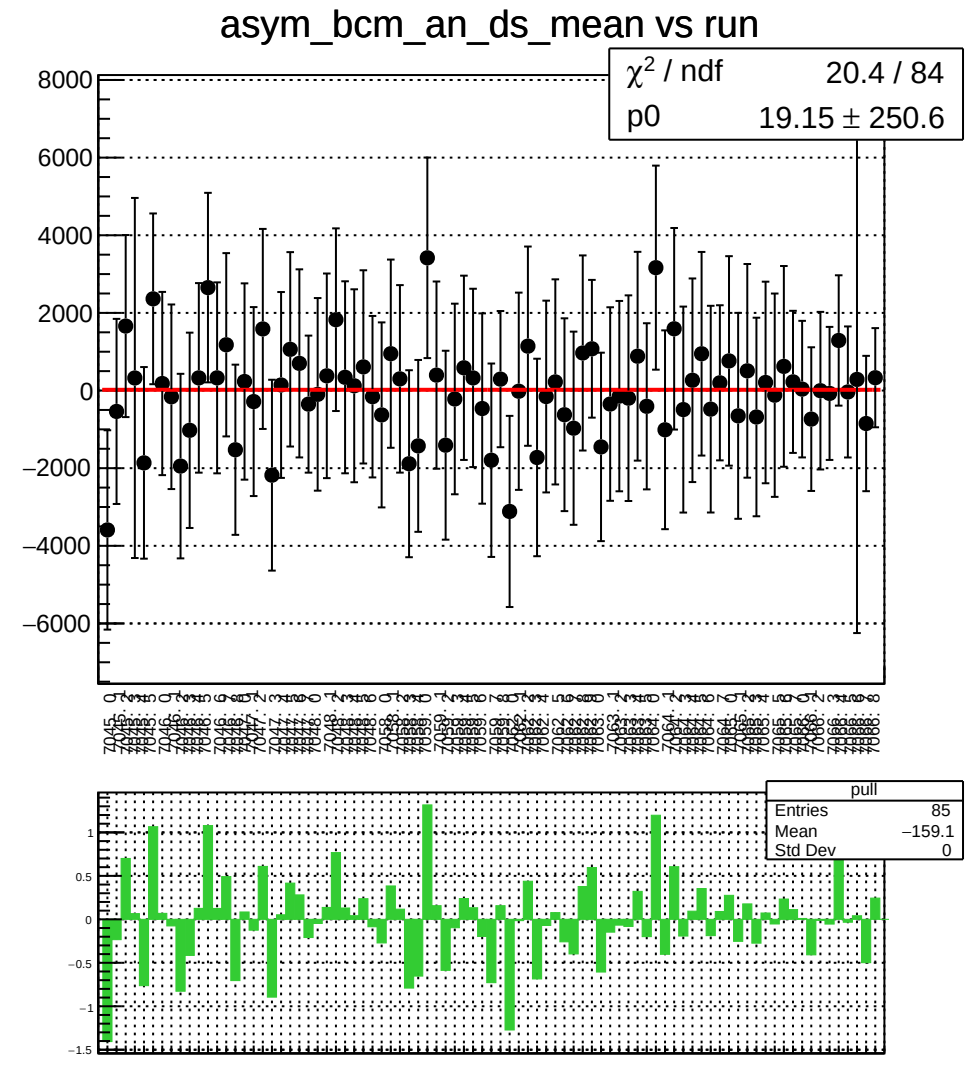

asym_bcm_target_mean vs run
χ² / ndf 19.48 / 84
p0 96.8 ± 251.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −94.91
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.003867
Std Dev 0.4787
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

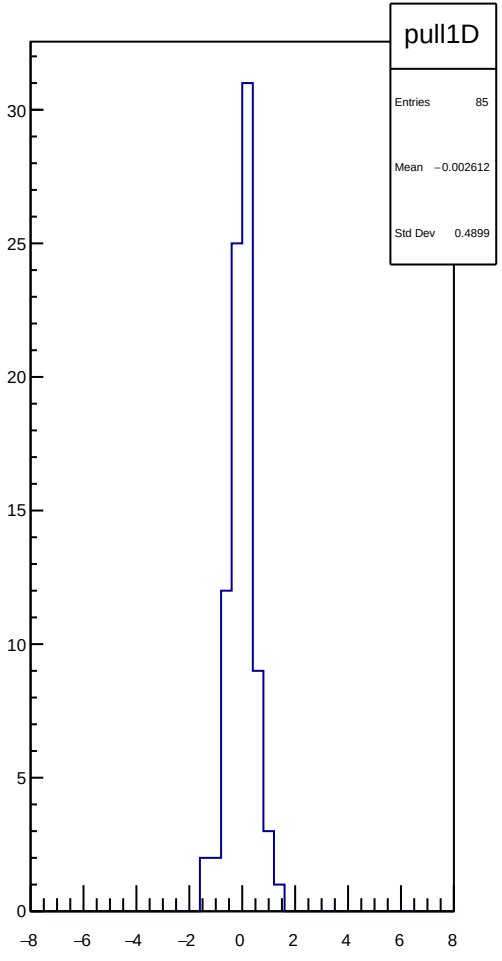

asym_bcm_target_rms vs run
χ^2 / ndf 3.768e+04 / 84
p0 225.5 ± 0.1778
600
500
400
300
200

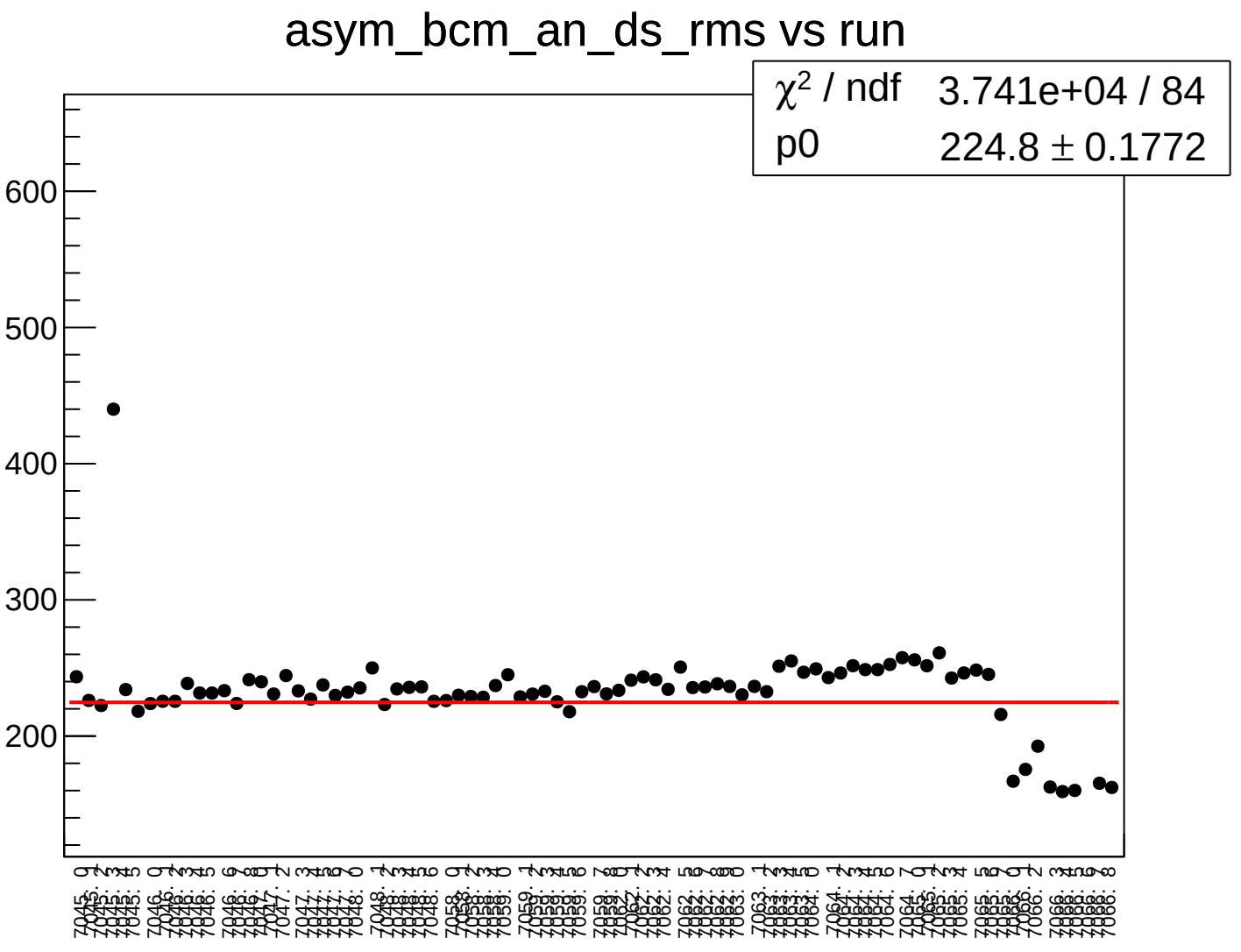

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 86.03 / 84
p0 −131.6 ± 67.77
800
600
400
200
0
−200
pull
Entries 85
Mean −23.84
Std Dev 0
2
1
0
−1
−2
−3

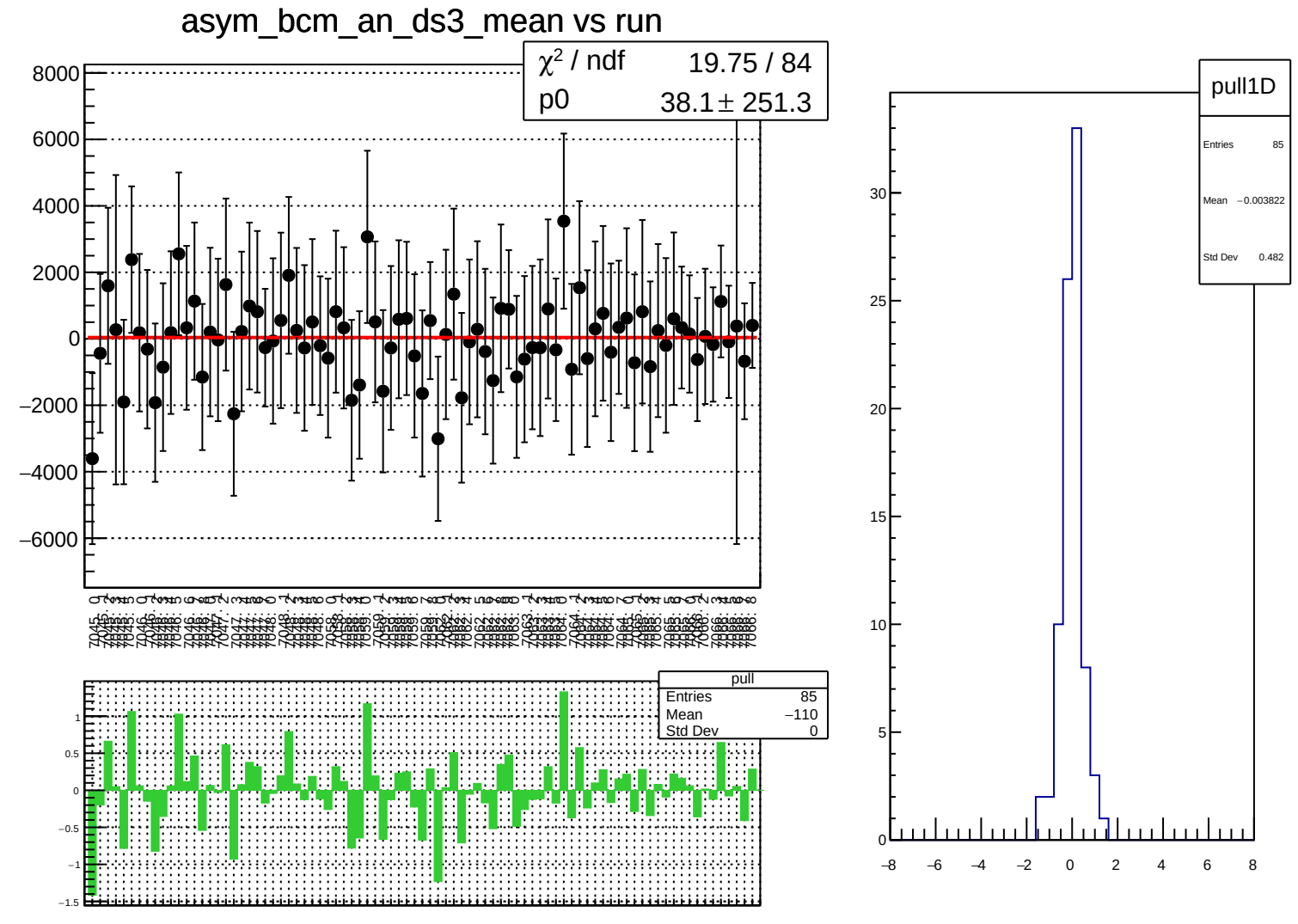

pull1D
Entries 85
Mean 0.0549
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

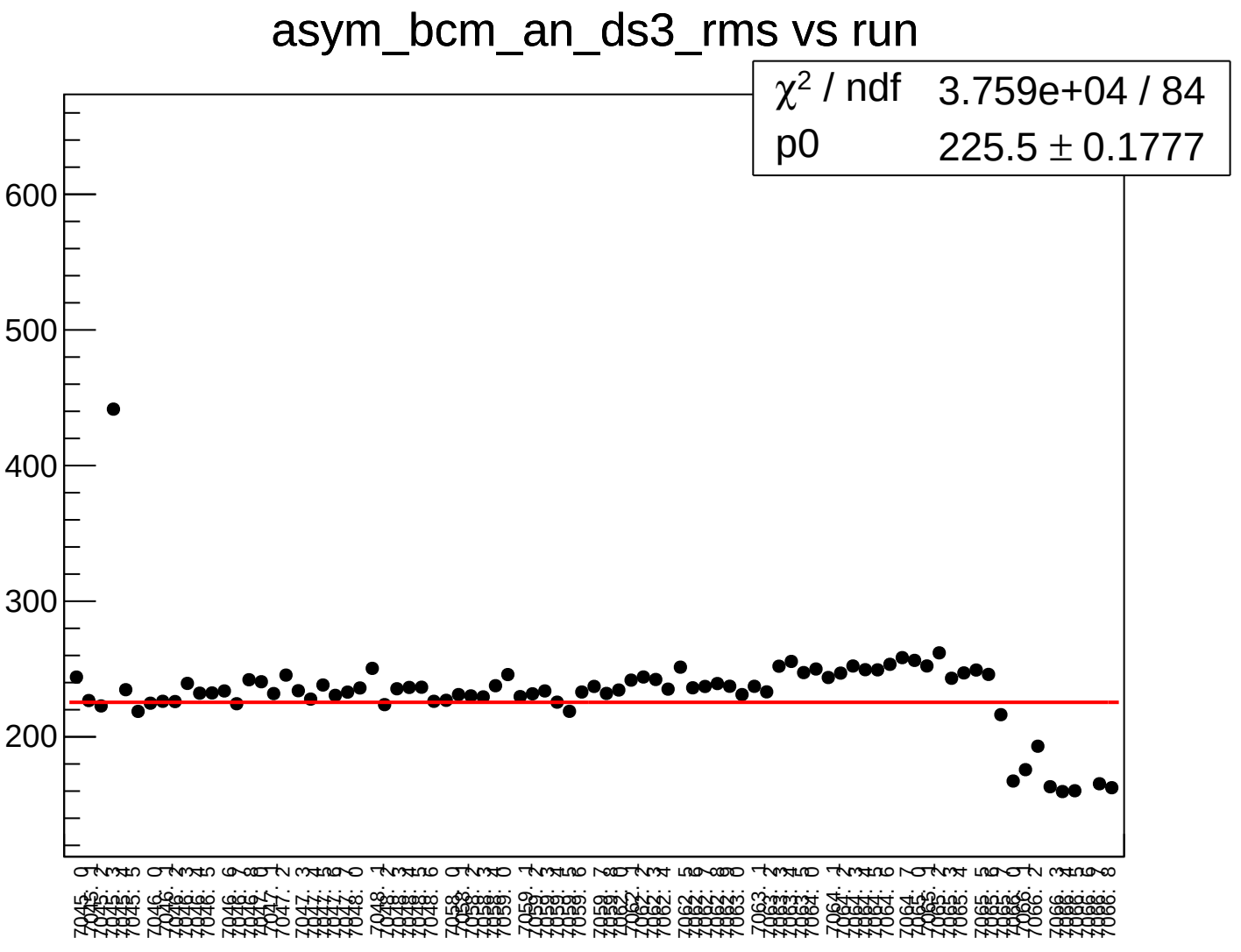

asym_bcm_an_diff_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.112e+05 / 66
p0 5.259e+04 ± 47.93

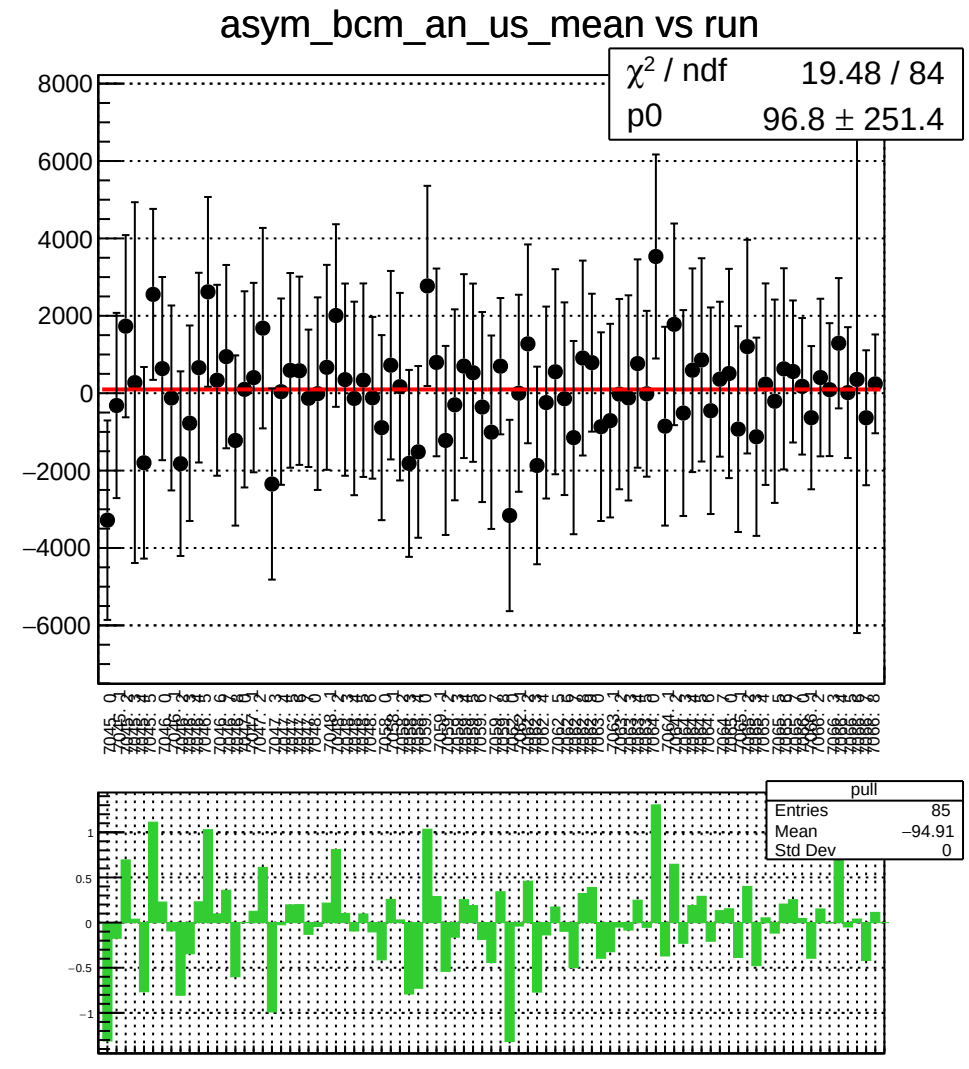

asym_bcm_an_ds_mean vs run
χ² / ndf 20.4 / 84
p0 19.15 ± 250.6
pull
Entries 85
Mean −159.1
Std Dev 0

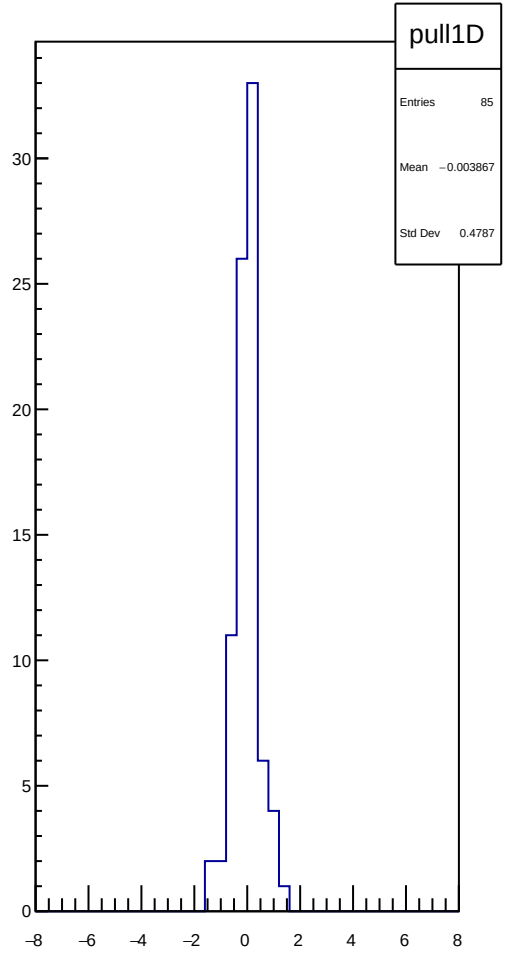

pull1D
Entries 85
Mean −0.002612
Std Dev 0.4899

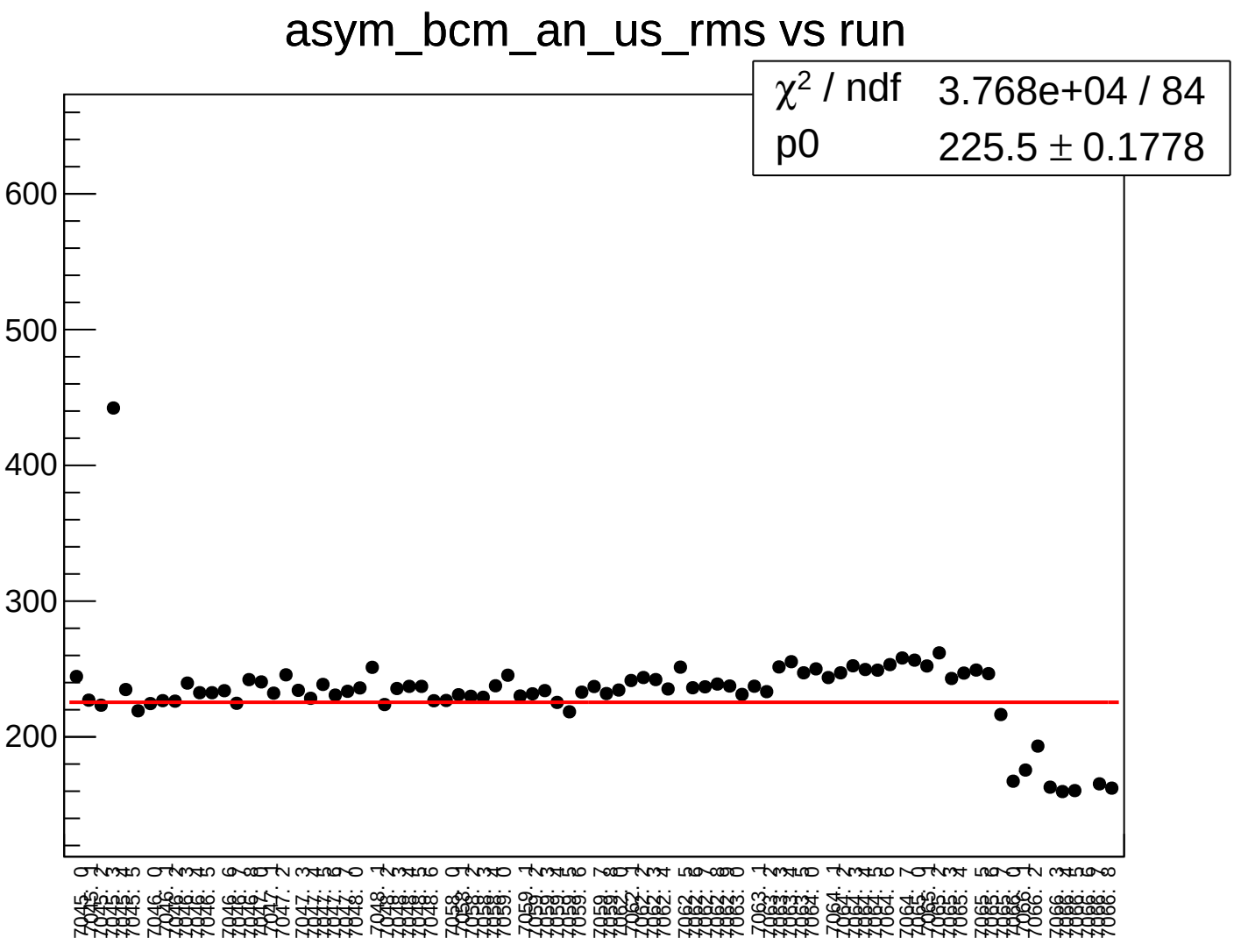

asym_bcm_an_ds_rms vs run
χ² / ndf 3.741e+04 / 84
p0 224.8 ± 0.1772
600
500
400
300
200

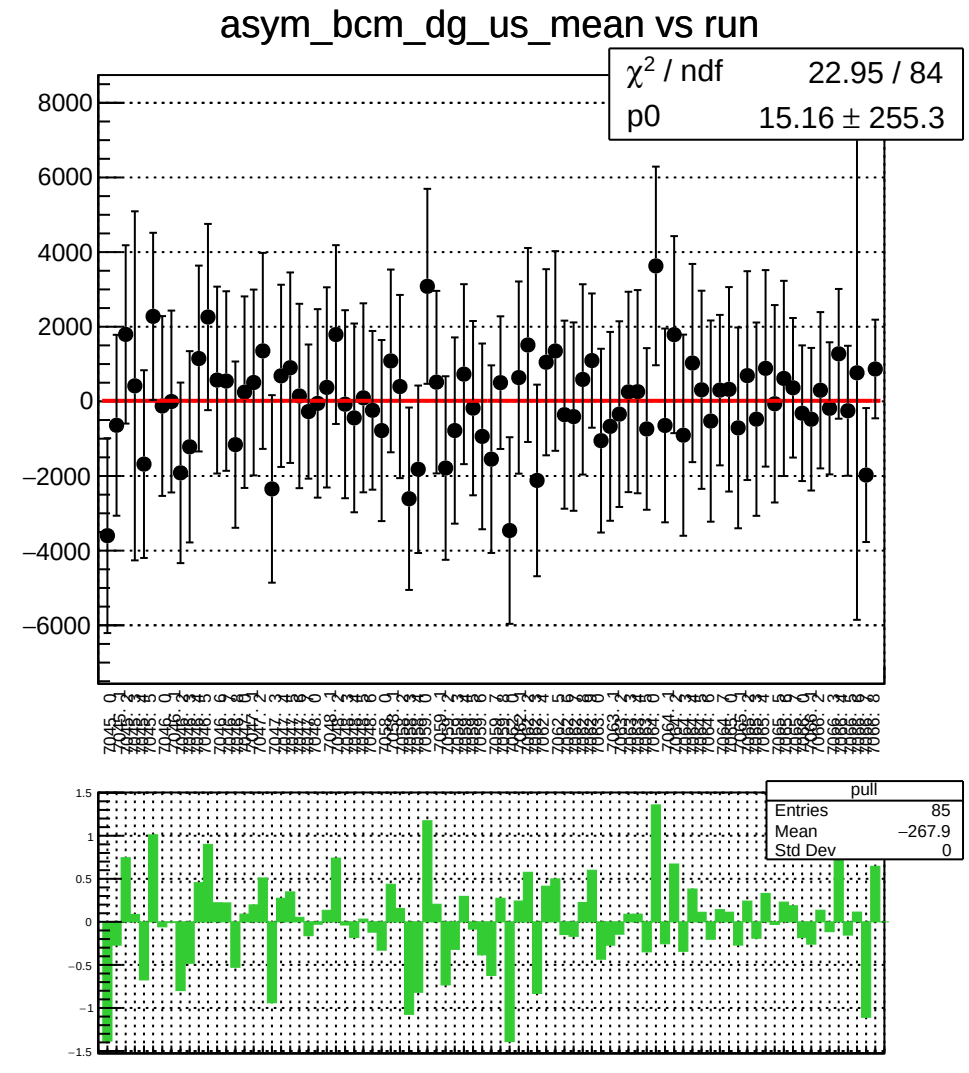

asym_bcm_an_ds3_mean vs run
χ² / ndf 19.75 / 84
p0 38.1 ± 251.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −110
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.003822
Std Dev 0.482
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

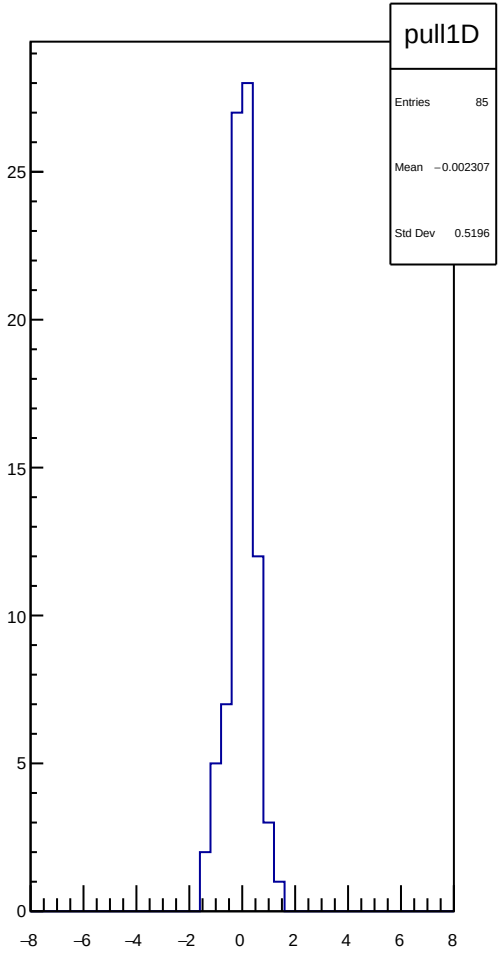

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.759e+04 / 84
p0 225.5 ± 0.1777
600
500
400
300
200

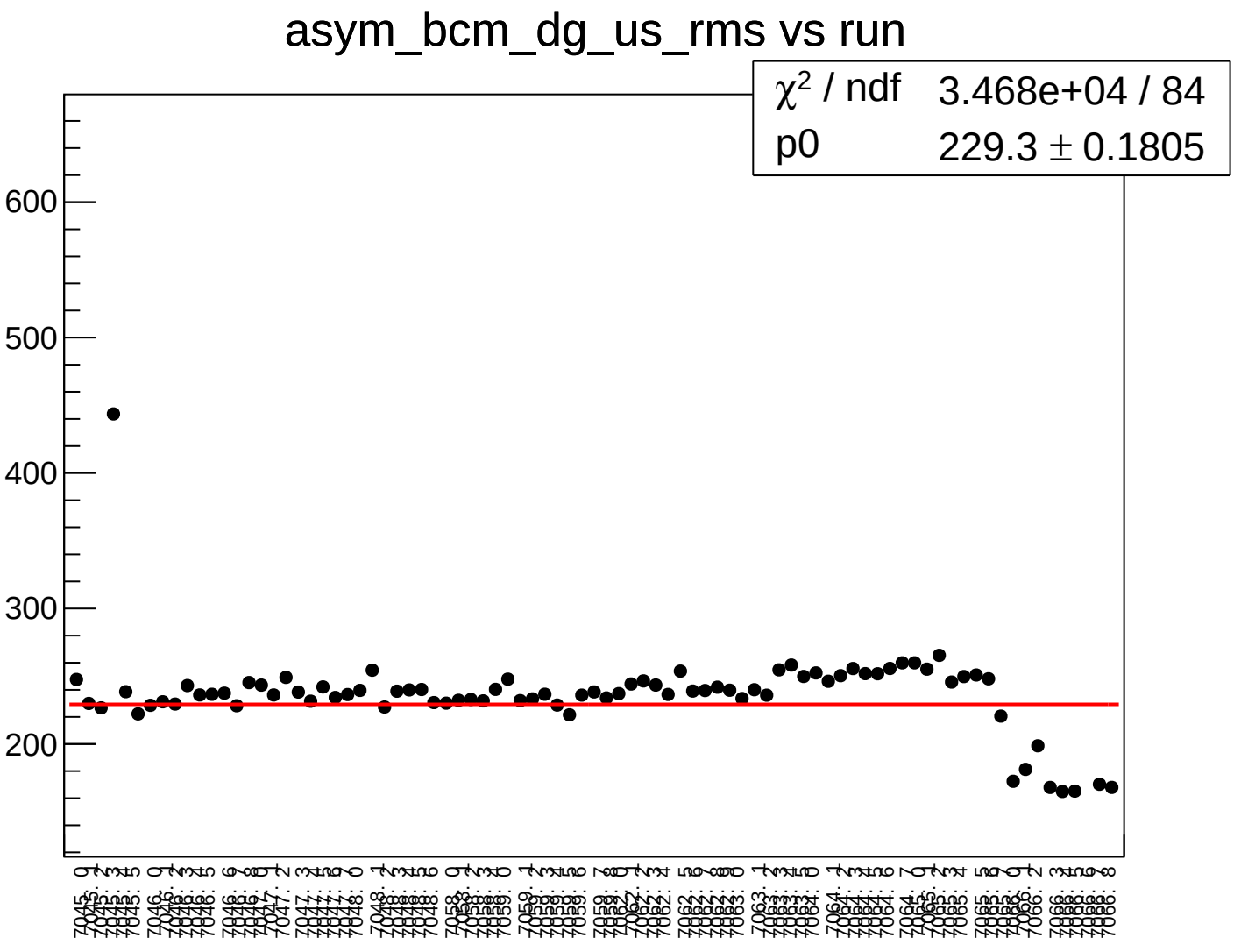

asym_bcm_an_us_mean vs run
χ² / ndf 19.48 / 84
p0 96.8 ± 251.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −94.91
Std Dev 0
1
0.5
0
−0.5
−1

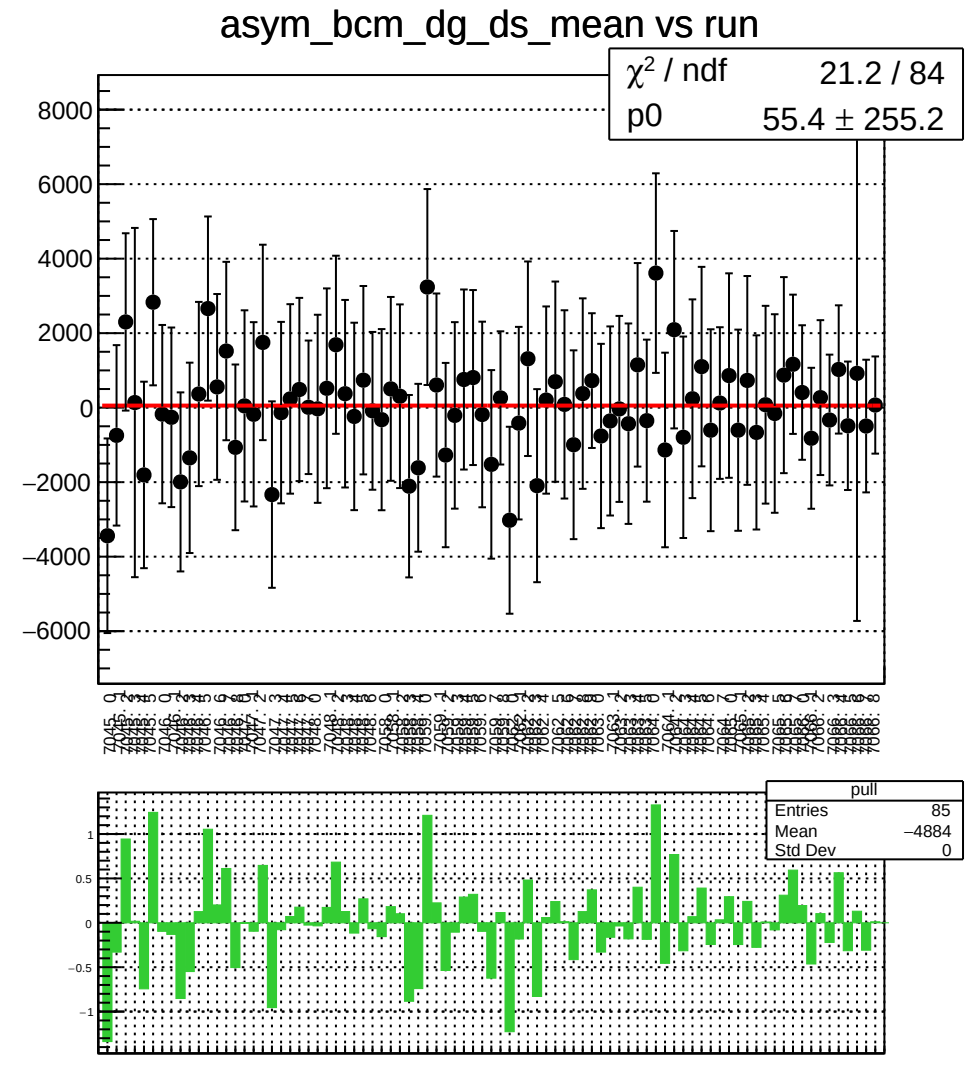

pull1D
Entries 85
Mean −0.003867
Std Dev 0.4787
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

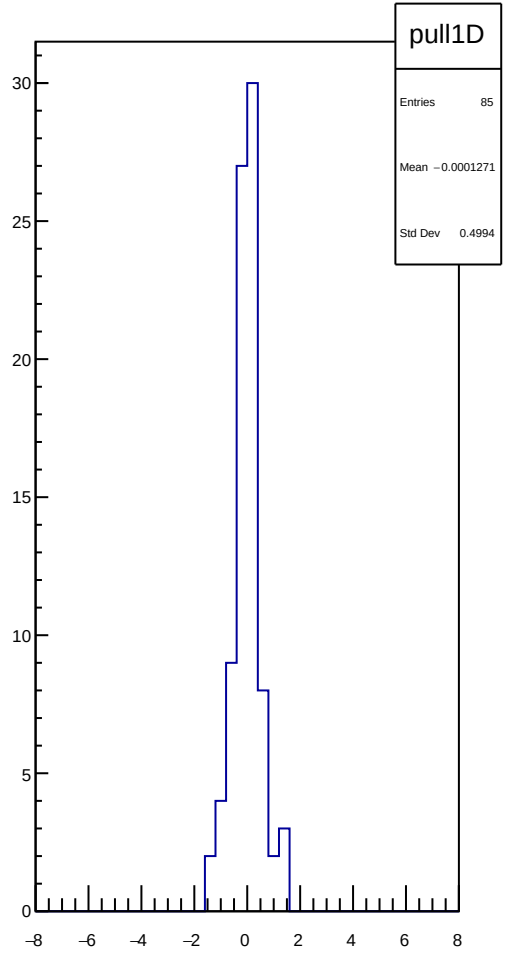

asym_bcm_an_us_rms vs run
χ² / ndf 3.768e+04 / 84
p0 225.5 ± 0.1778
600
500
400
300
200

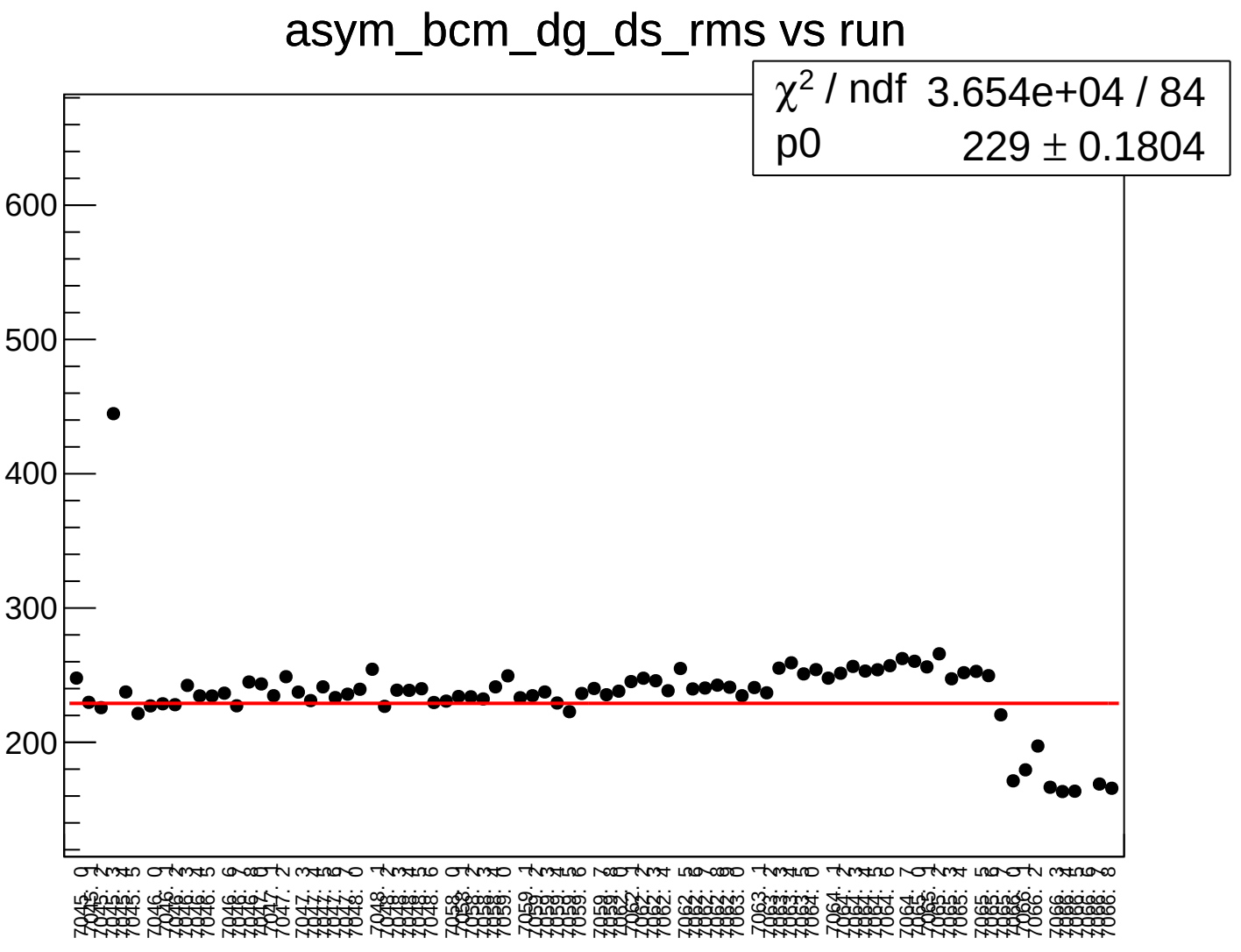

asym_bcm_dg_us_mean vs run
χ² / ndf 22.95 / 84
p0 15.16 ± 255.3
pull
Entries 85
Mean −267.9
Std Dev 0

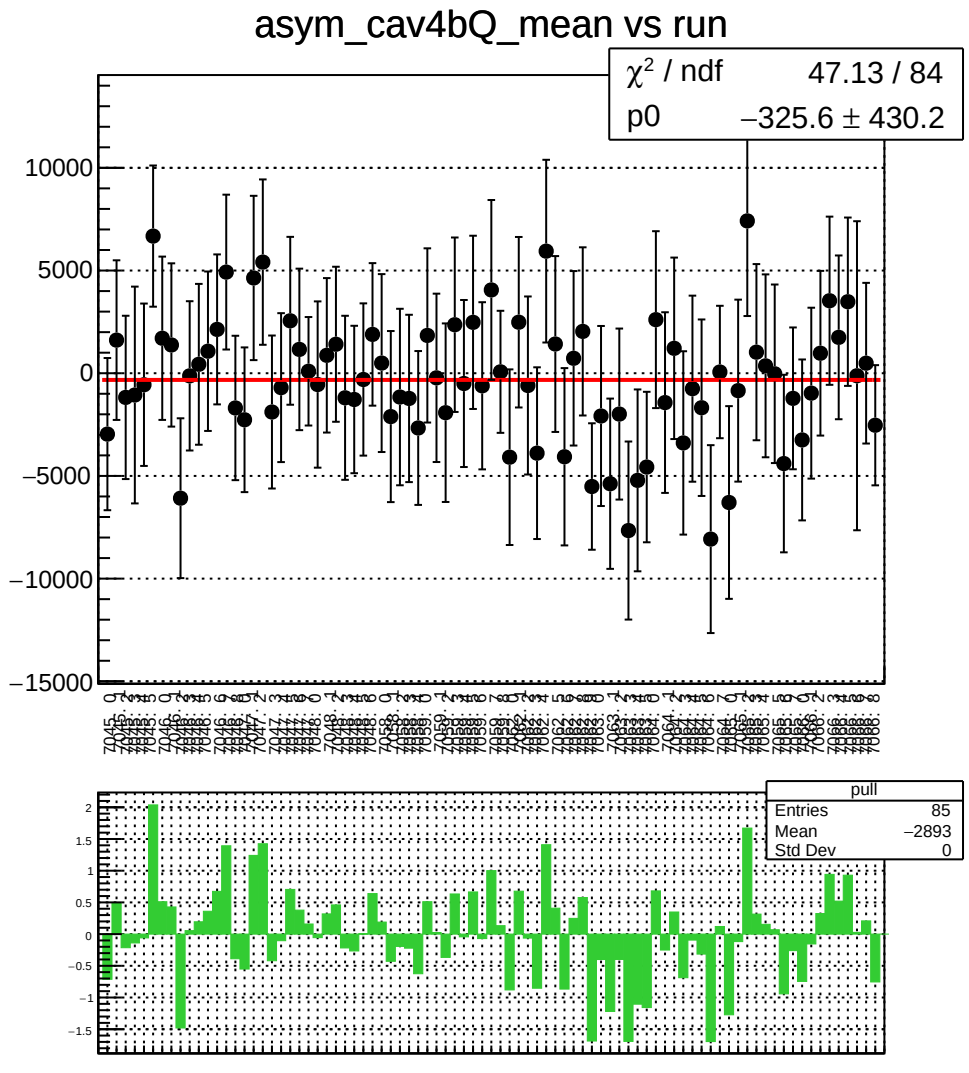

pull1D
Entries 85
Mean −0.002307
Std Dev 0.5196

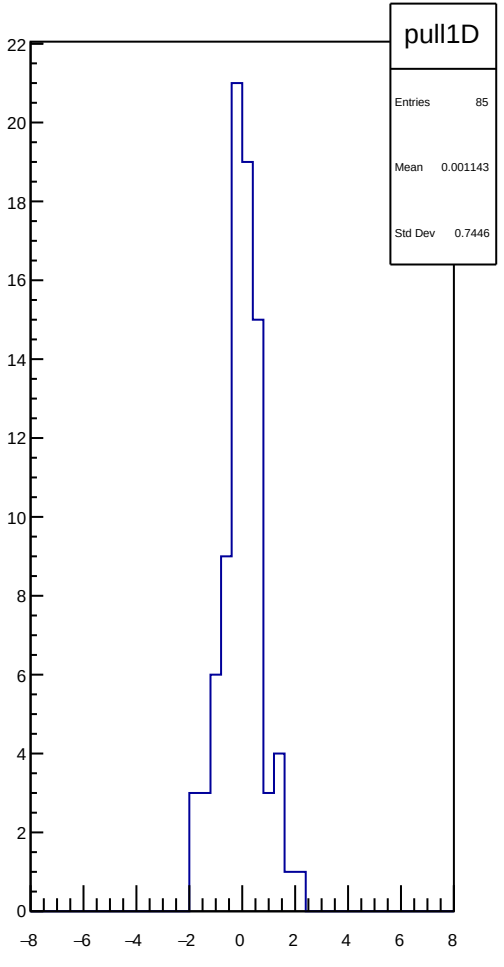

asym_bcm_dg_us_rms vs run
χ² / ndf 3.468e+04 / 84
p0 229.3 ± 0.1805
600
500
400
300
200

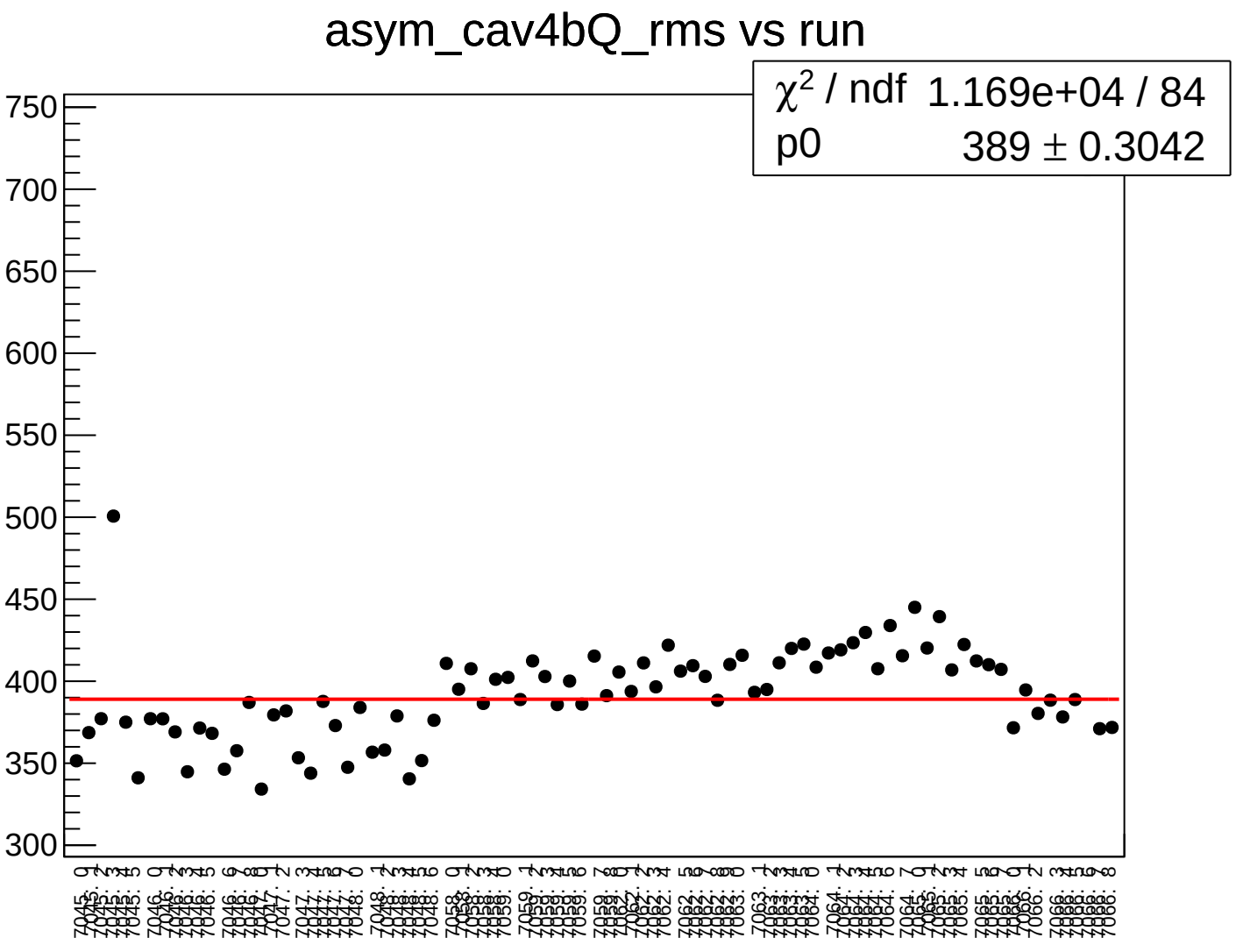

asym_bcm_dg_ds_mean vs run
χ² / ndf 21.2 / 84
p0 55.4 ± 255.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −4884
Std Dev 0
1
0.5
0
−0.5
−1

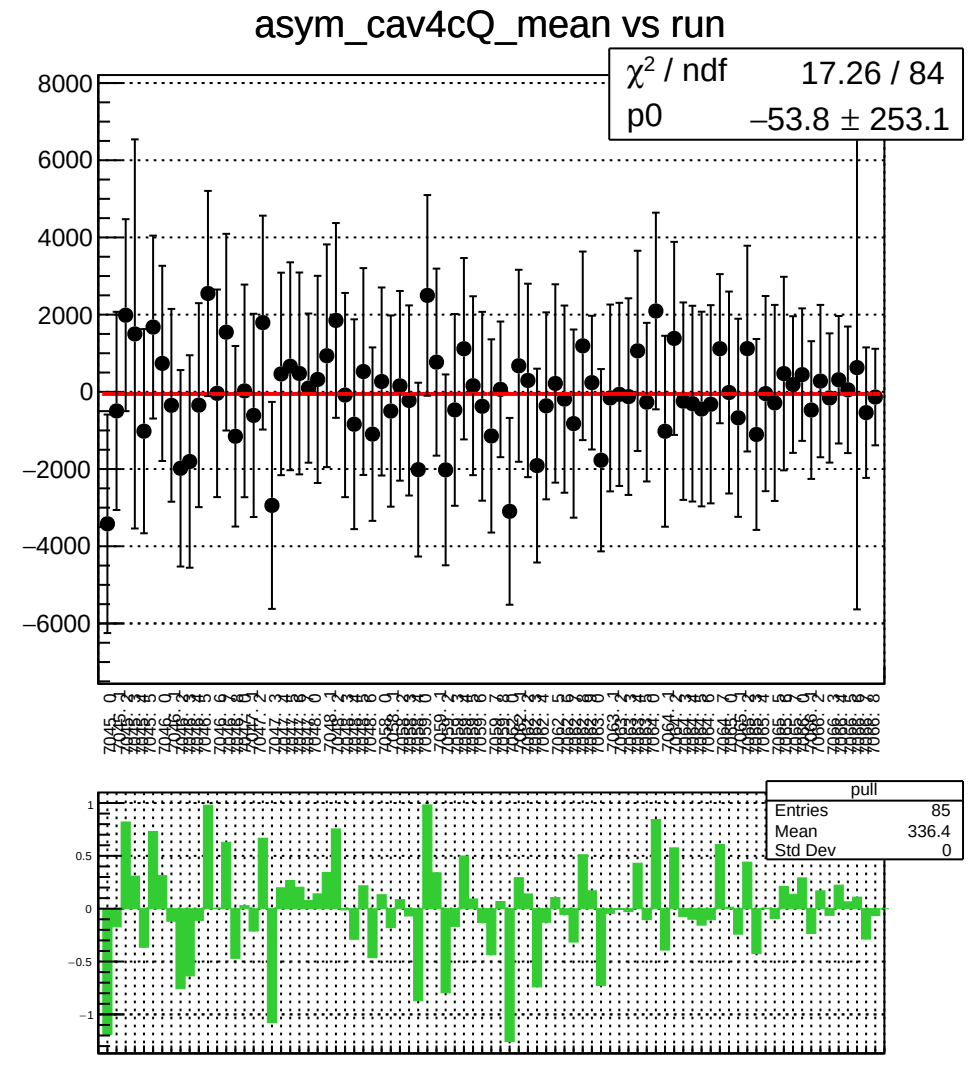

pull1D
Entries 85
Mean −0.0001271
Std Dev 0.4994
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

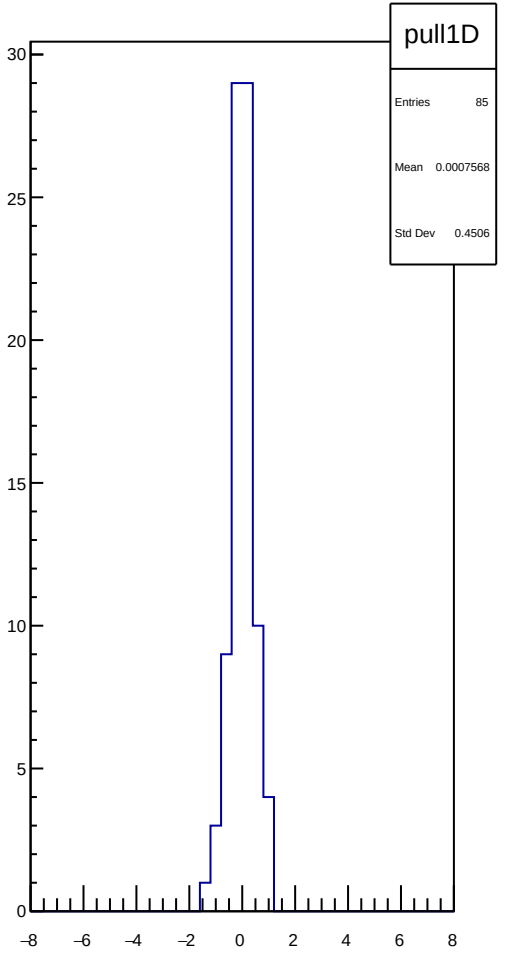

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3.654e+04 / 84
p0 229 ± 0.1804
600
500
400
300
200

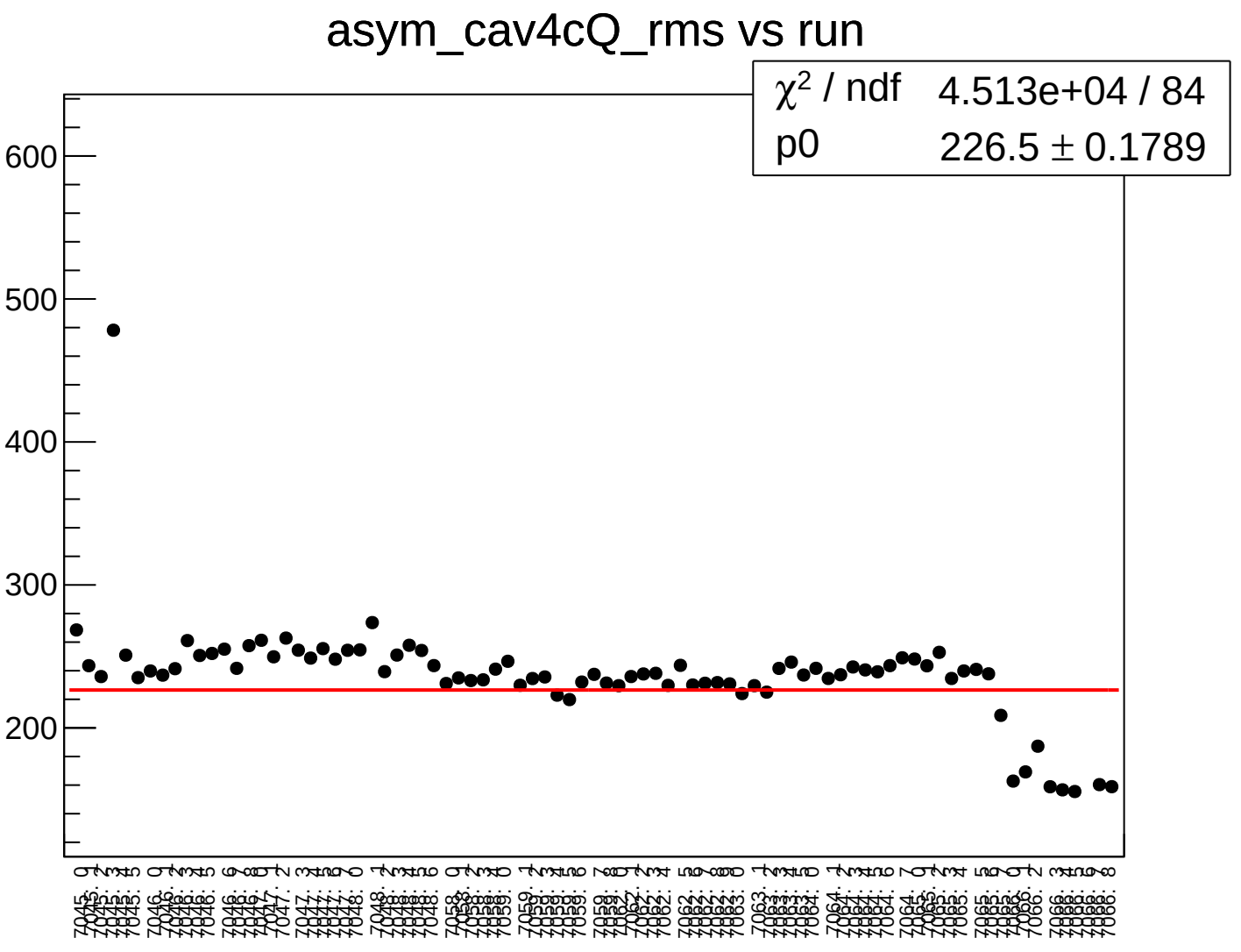

asym_cav4bQ_mean vs run
χ² / ndf 47.13 / 84
p0 −325.6 ± 430.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −2893
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

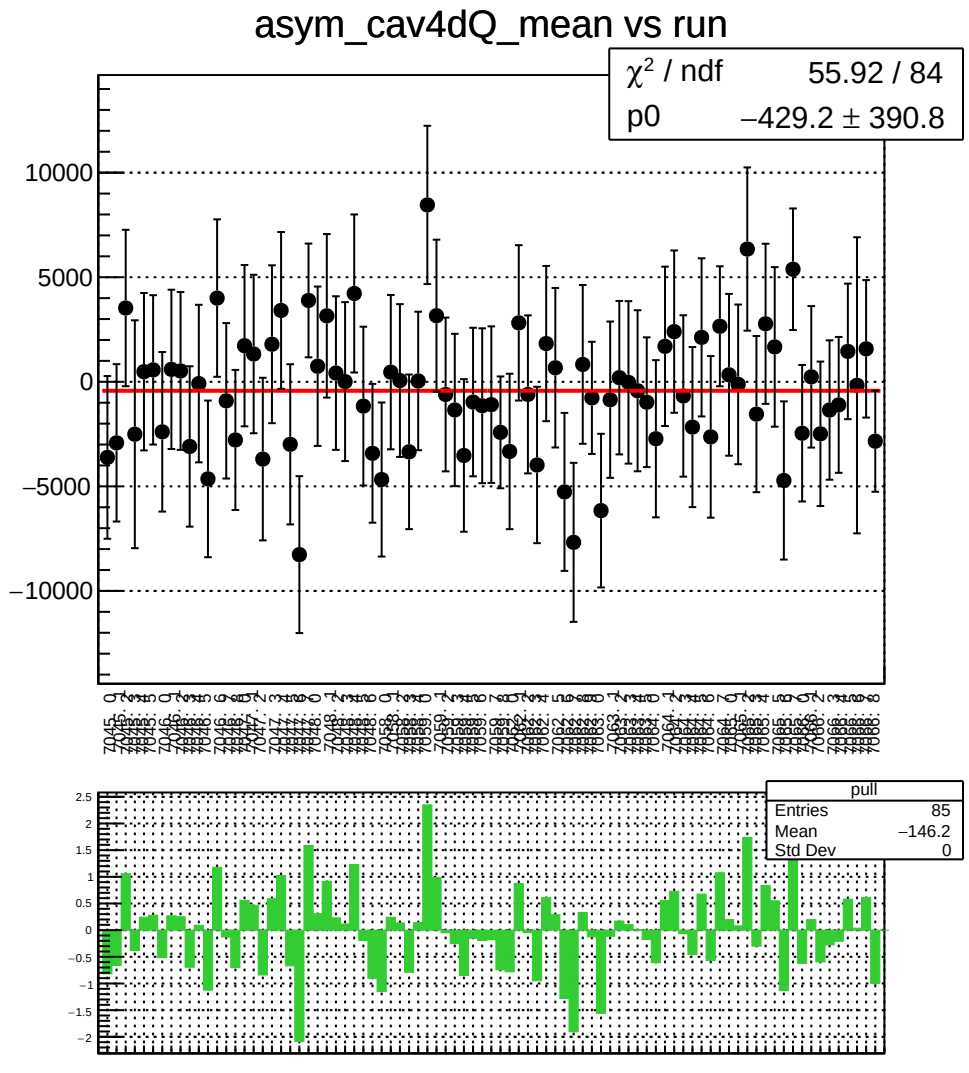

pull1D
Entries 85
Mean 0.001143
Std Dev 0.7446
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

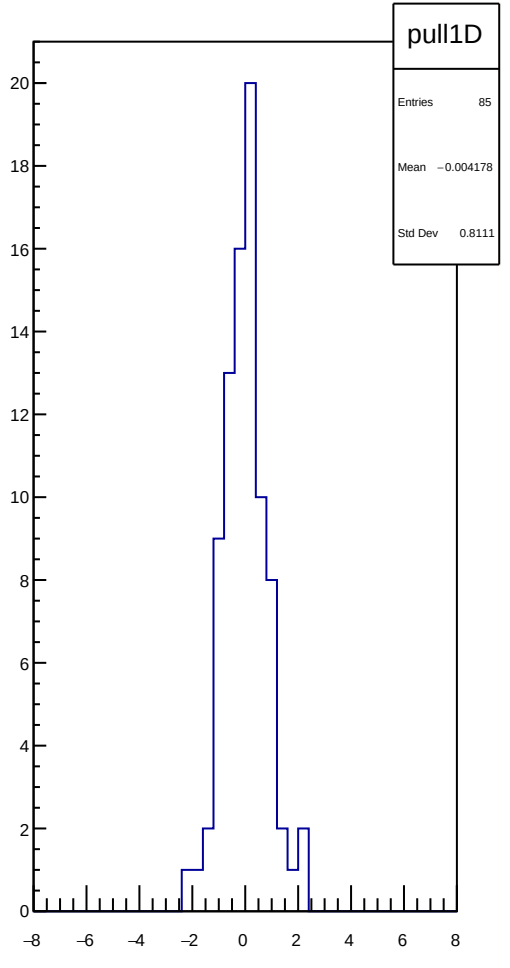

asym_cav4bQ_rms vs run
χ² / ndf 1.169e+04 / 84
p0 389 ± 0.3042
750
700
650
600
550
500
450
400
350
300

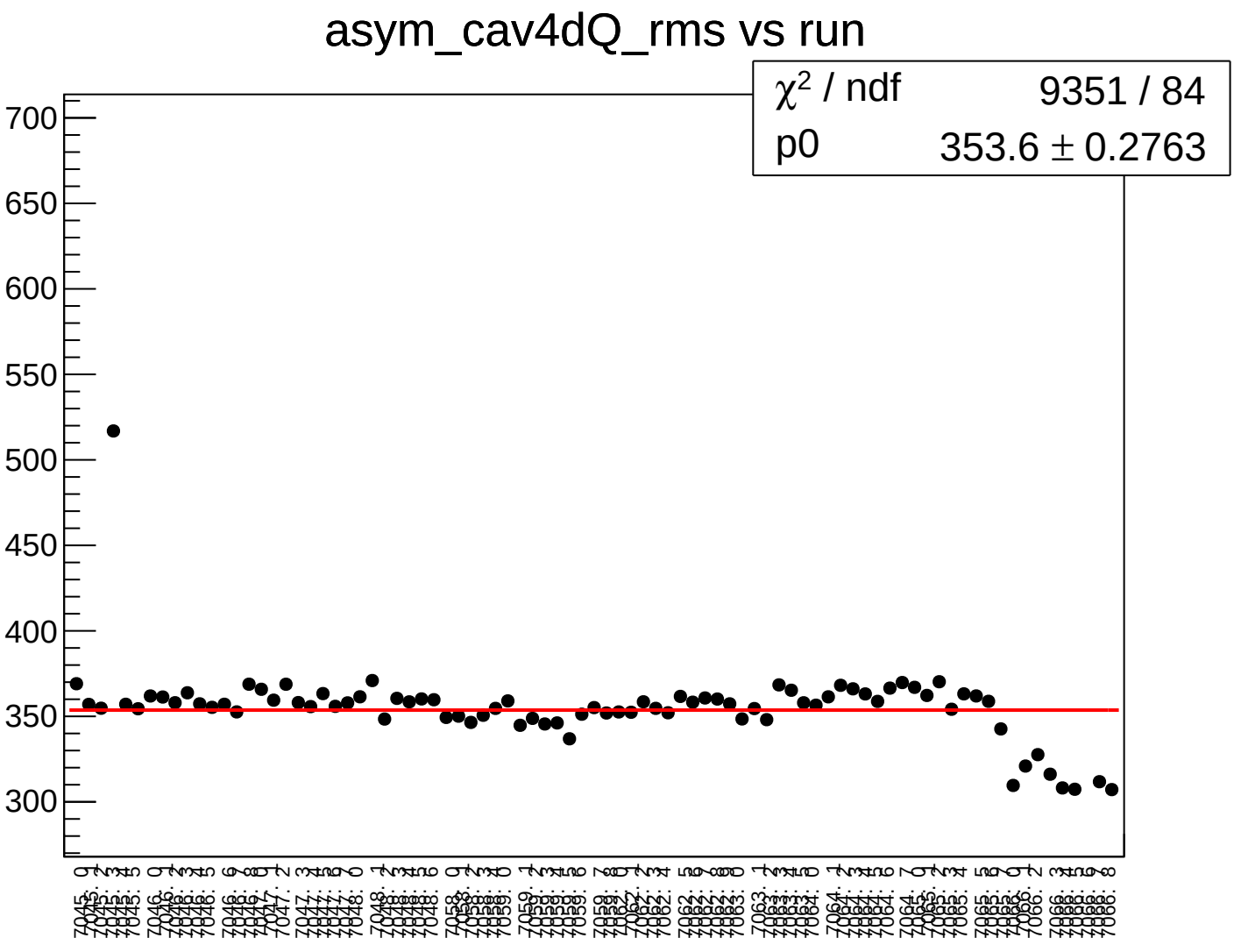

asym_cav4cQ_mean vs run
χ² / ndf 17.26 / 84
p0 −53.8 ± 253.1
pull
Entries 85
Mean 336.4
Std Dev 0

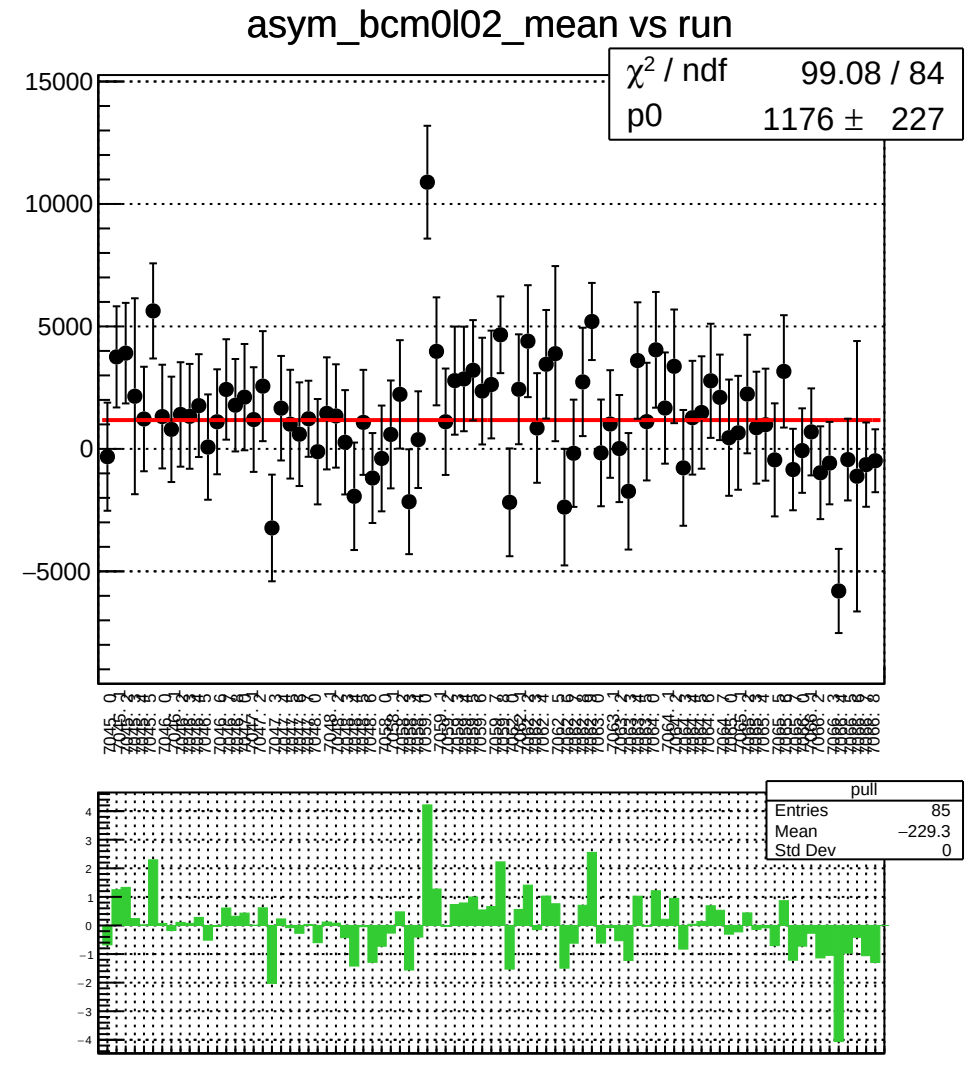

pull1D
Entries 85
Mean 0.0007568
Std Dev 0.4506

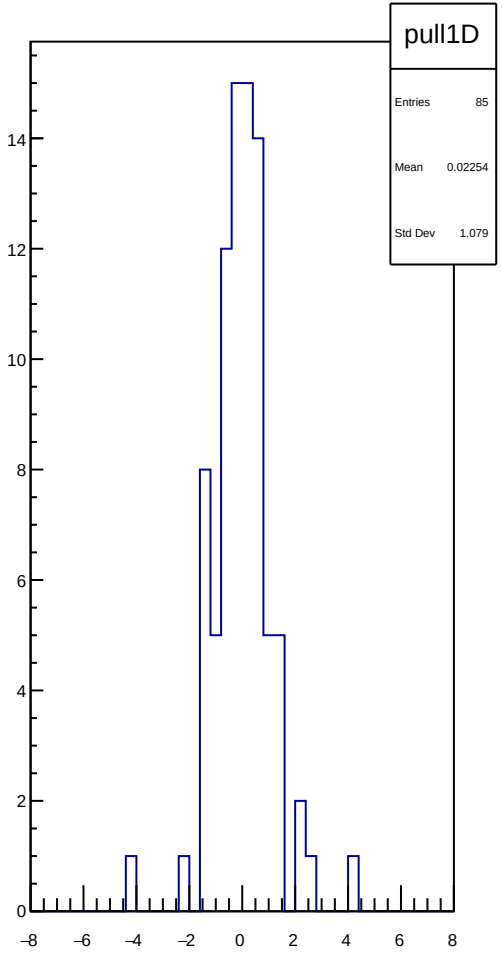

asym_cav4cQ_rms vs run
χ² / ndf 4.513e+04 / 84
p0 226.5 ± 0.1789
600
500
400
300
200

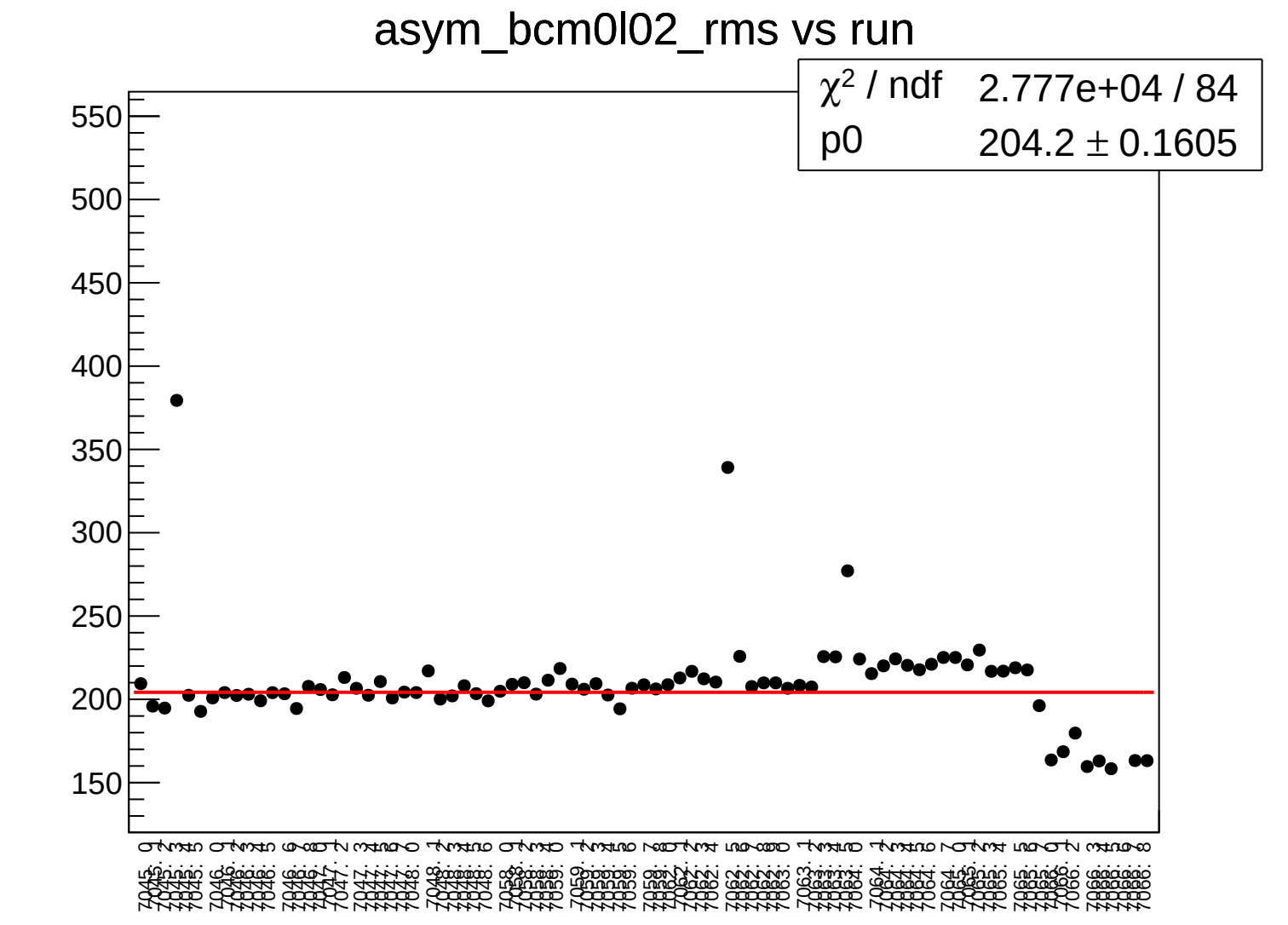

asym_cav4dQ_mean vs run
χ² / ndf 55.92 / 84
p0 −429.2 ± 390.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −146.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

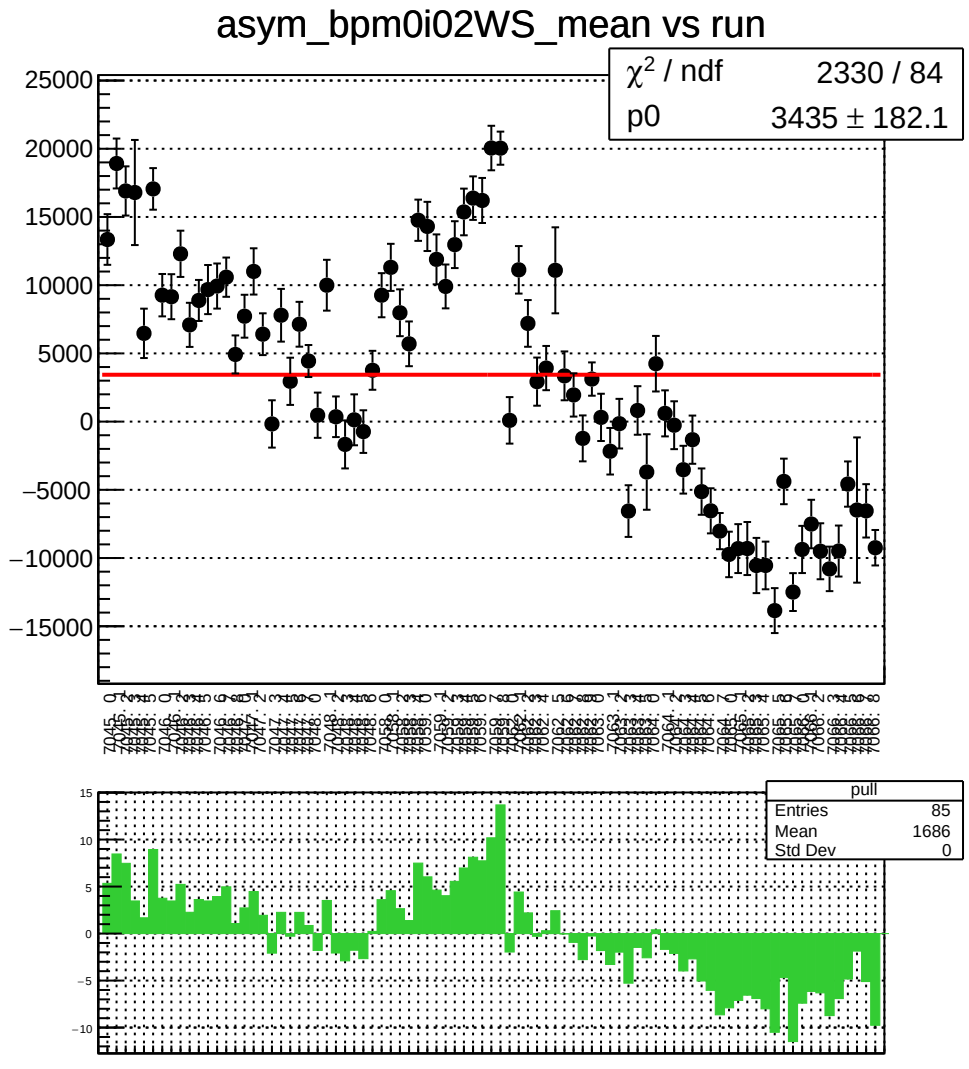

pull1D
Entries 85
Mean −0.004178
Std Dev 0.8111
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

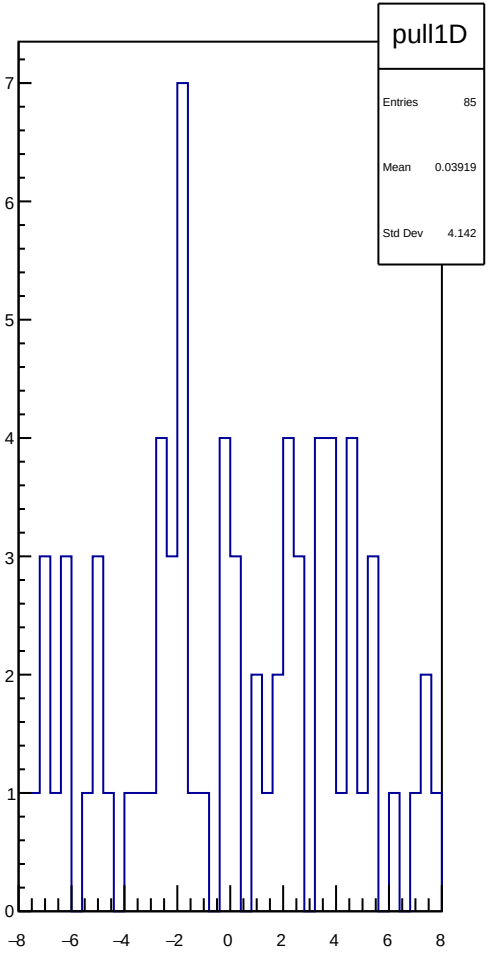

asym_cav4dQ_rms vs run
χ² / ndf 9351 / 84
p0 353.6 ± 0.2763
700
650
600
550
500
450
400
350
300

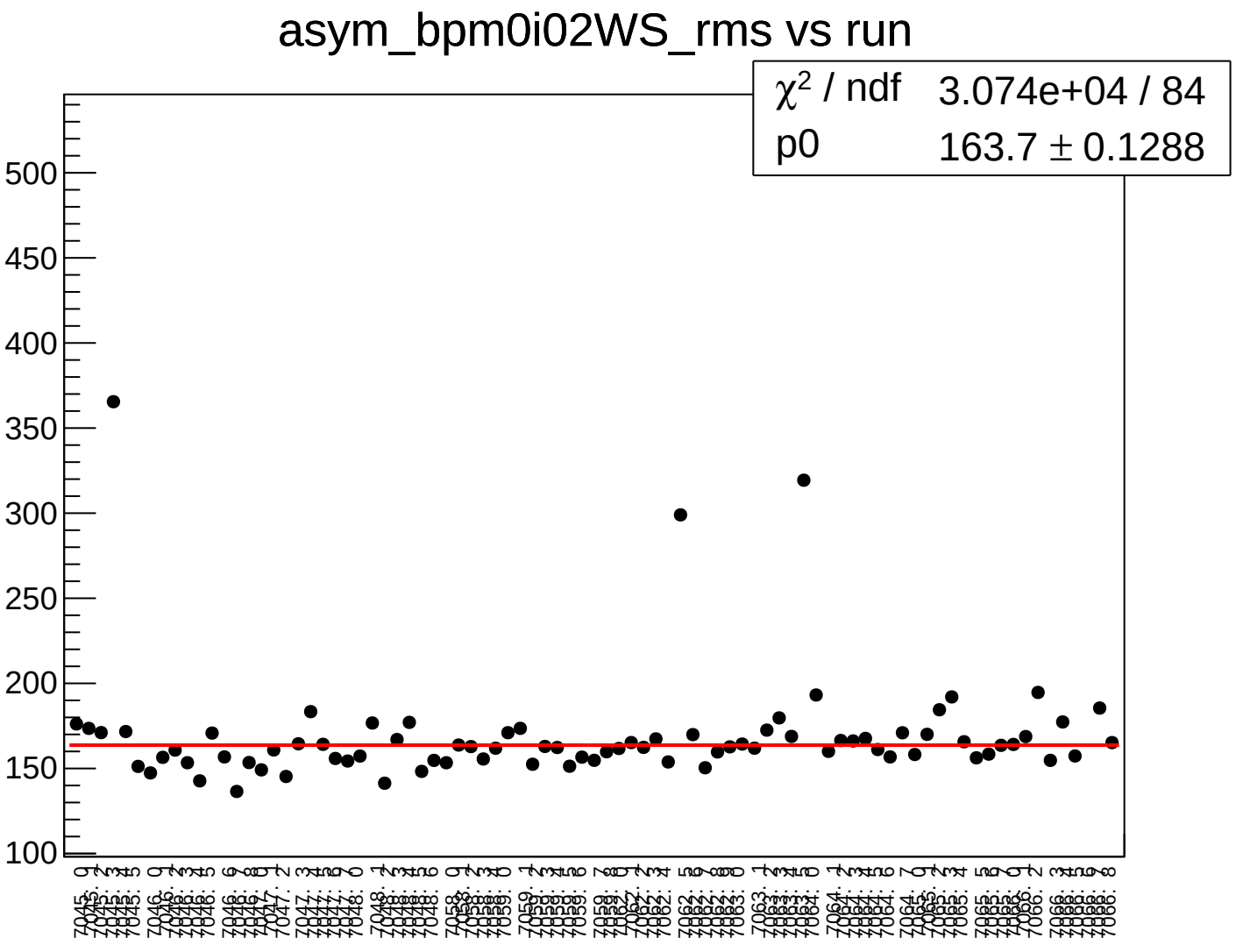

asym_bcm0l02_mean vs run
χ² / ndf 99.08 / 84
p0 1176 ± 227
15000
10000
5000
0
−5000
pull
Entries 85
Mean −229.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

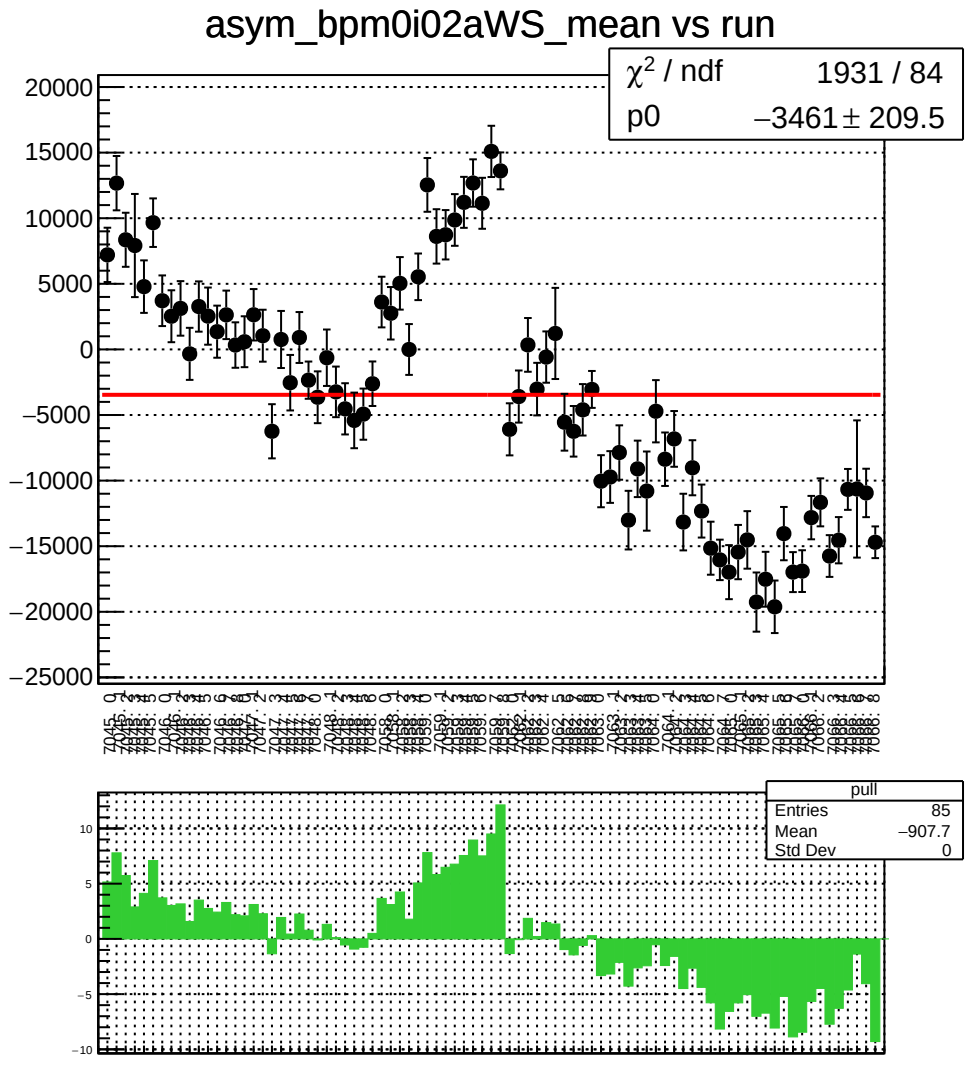

pull1D
Entries 85
Mean 0.02254
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

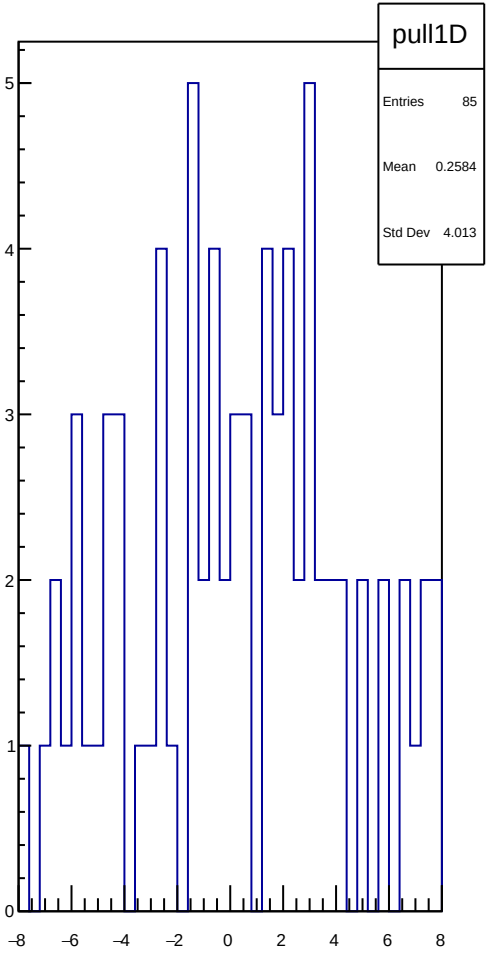

asym_bcm0l02_rms vs run
χ² / ndf 2.777e+04 / 84
p0 204.2 ± 0.1605
550
500
450
400
350
300
250
200
150

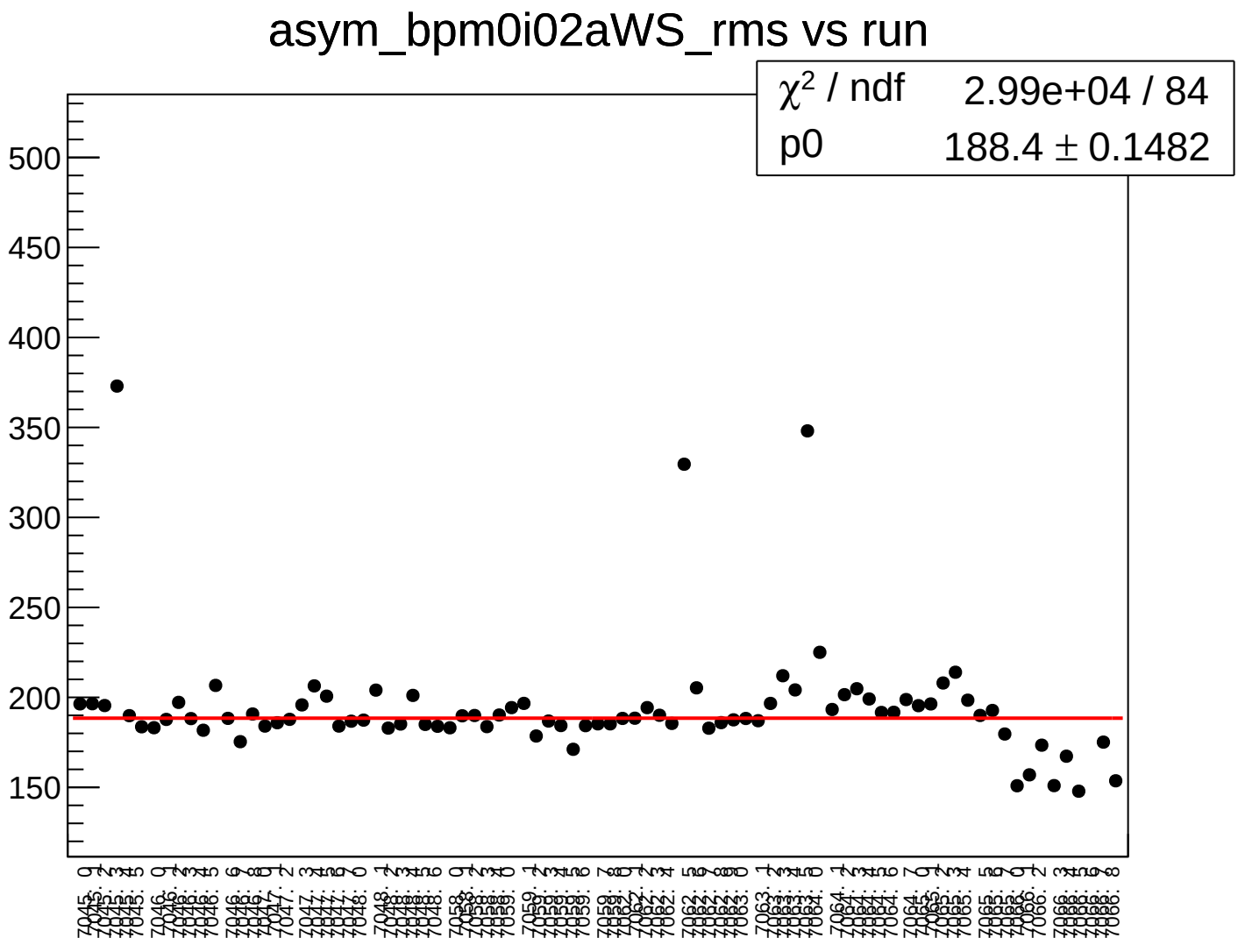

asym_bpm0i02WS_mean vs run
χ² / ndf 2330 / 84
p0 3435 ± 182.1
pull
Entries 85
Mean 1686
Std Dev 0

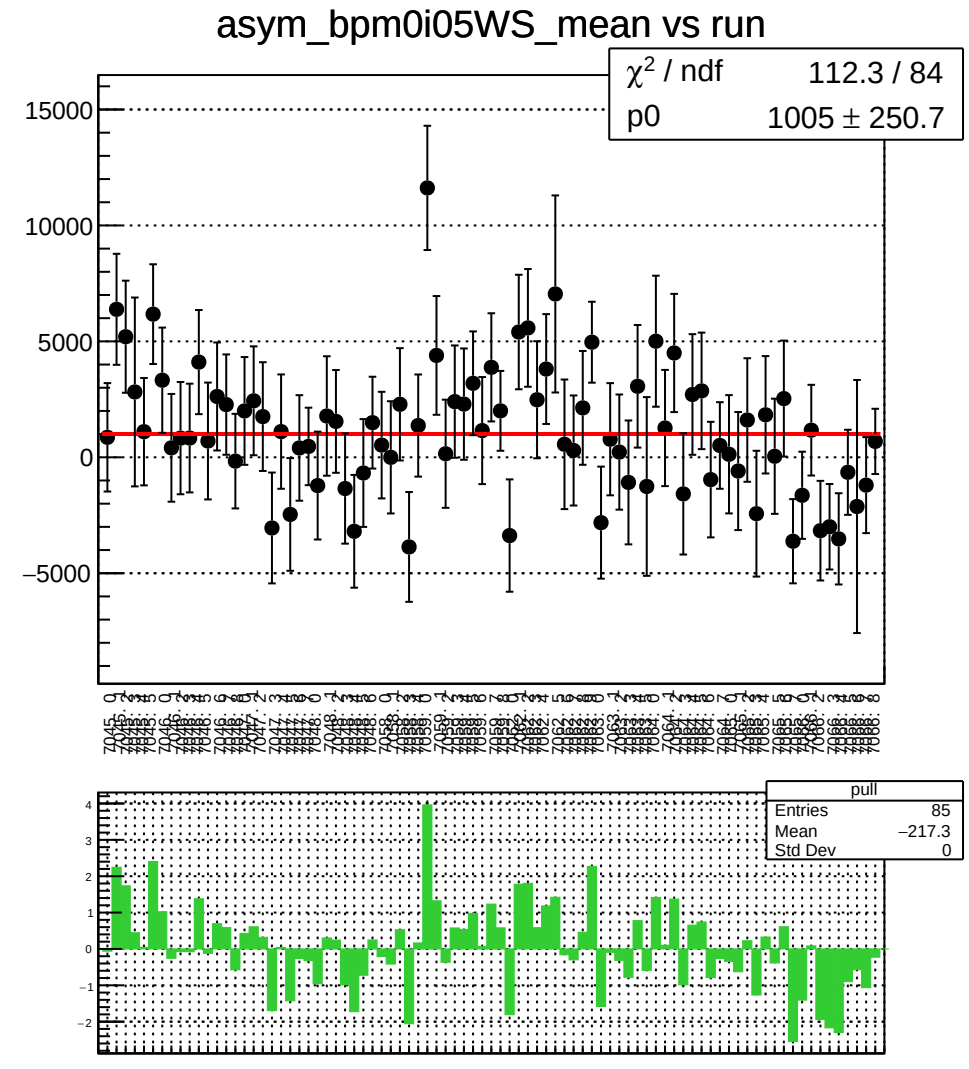

pull1D
Entries 85
Mean 0.03919
Std Dev 4.142

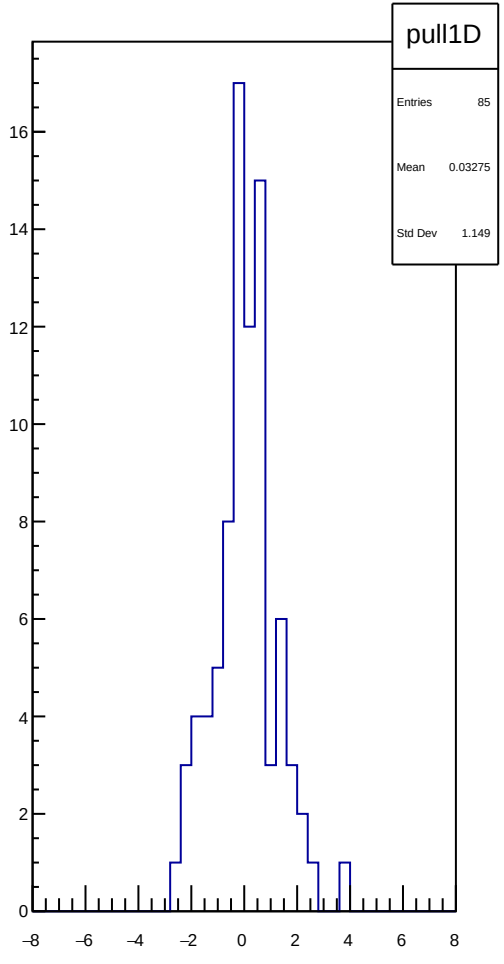

asym_bpm0i02WS_rms vs run
χ² / ndf 3.074e+04 / 84
p0 163.7 ± 0.1288
500
450
400
350
300
250
200
150
100


asym_bpm0i02aWS_mean vs run
χ² / ndf 1931 / 84
p0 −3461 ± 209.5
pull
Entries 85
Mean −907.7
Std Dev 0


pull1D
Entries 85
Mean 0.2584
Std Dev 4.013


asym_bpm0i02aWS_rms vs run
χ² / ndf 2.99e+04 / 84
p0 188.4 ± 0.1482
500
450
400
350
300
250
200
150


asym_bpm0i05WS_mean vs run
χ² / ndf 112.3 / 84
p0 1005 ± 250.7
15000
10000
5000
0
−5000
pull
Entries 85
Mean −217.3
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.03275
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
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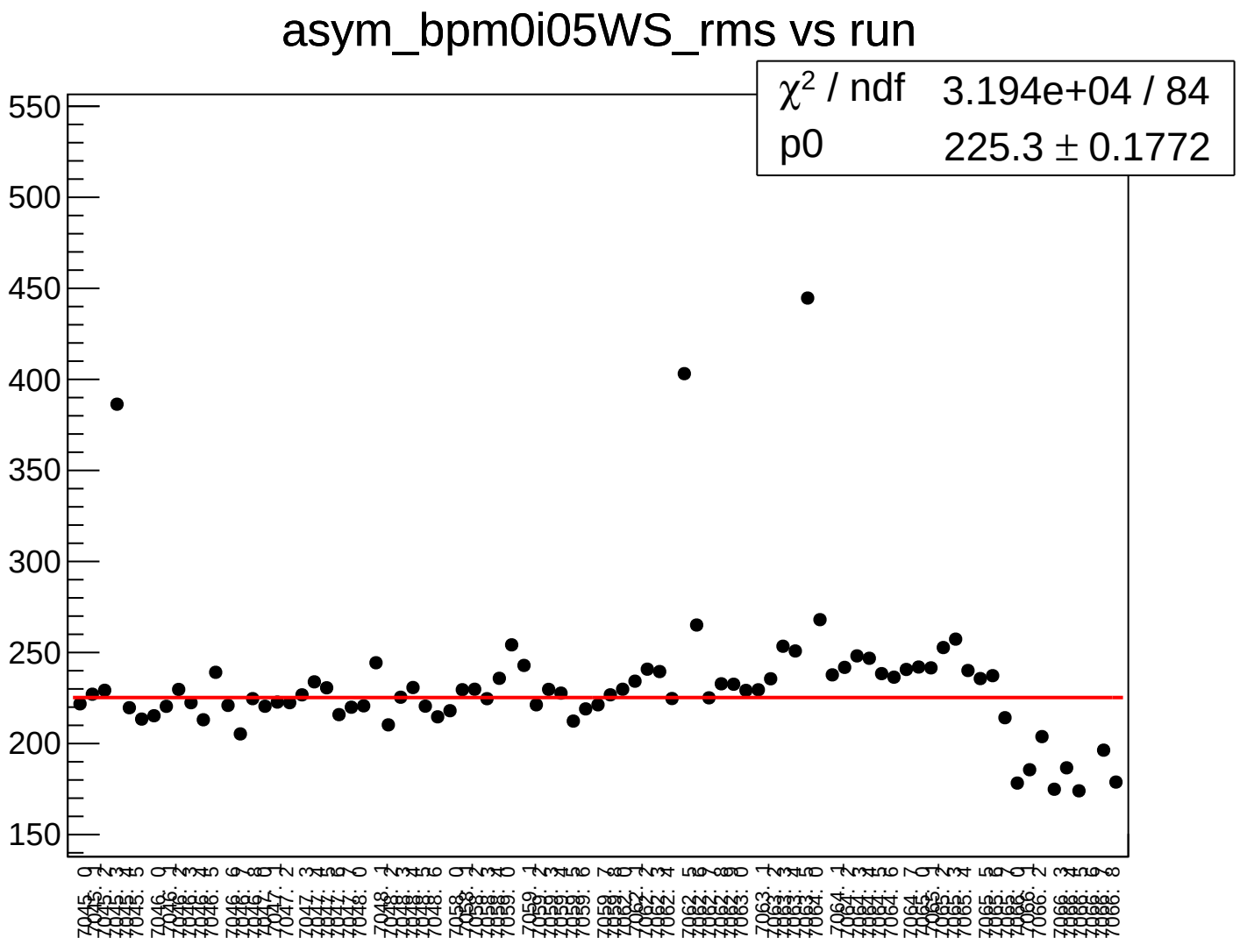
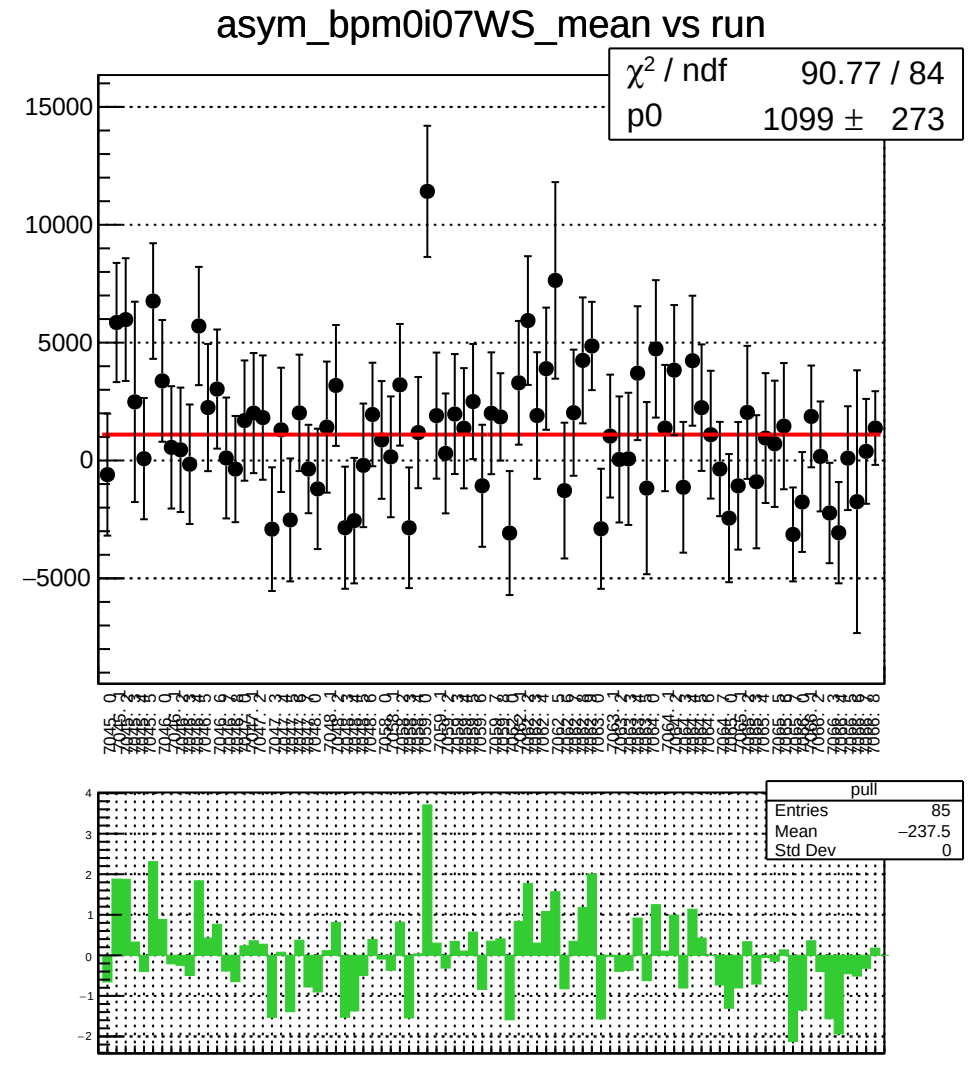
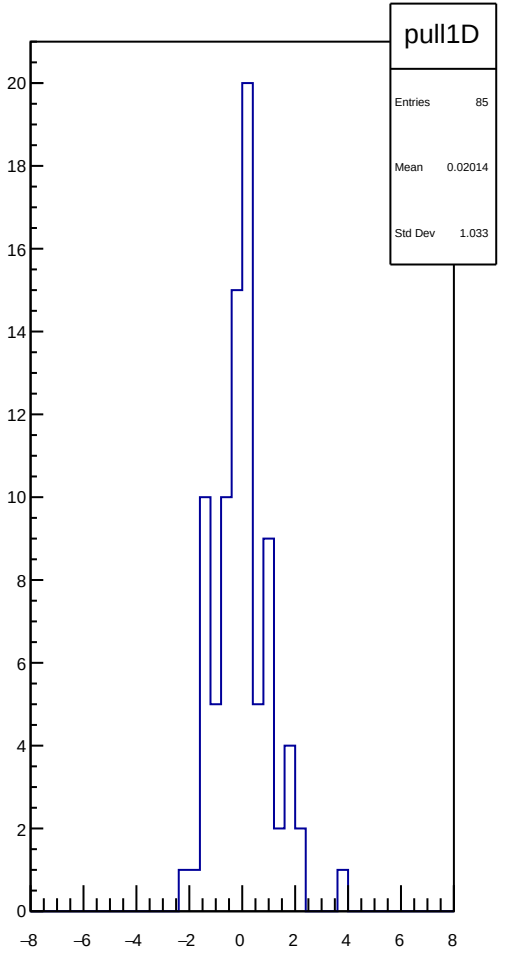
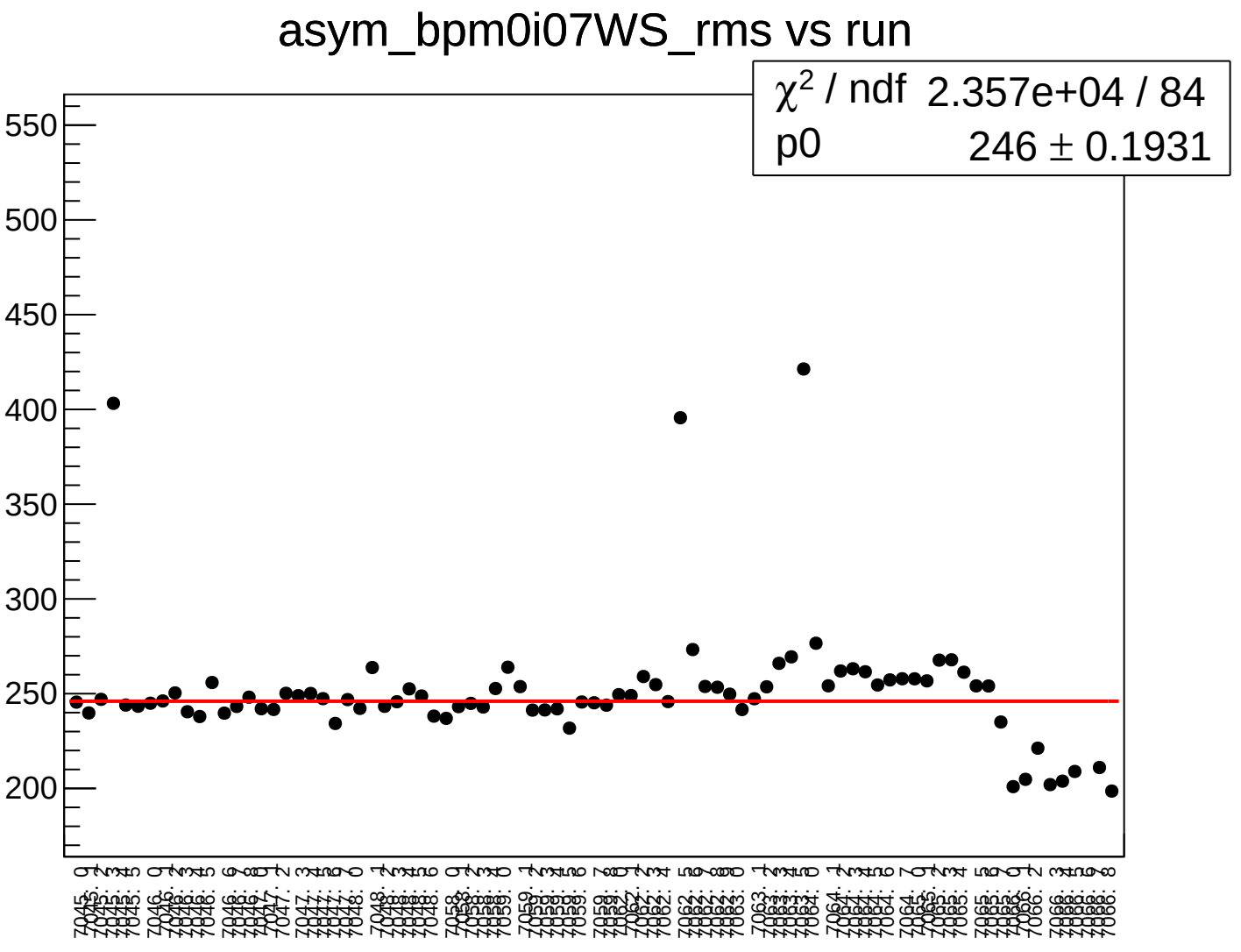
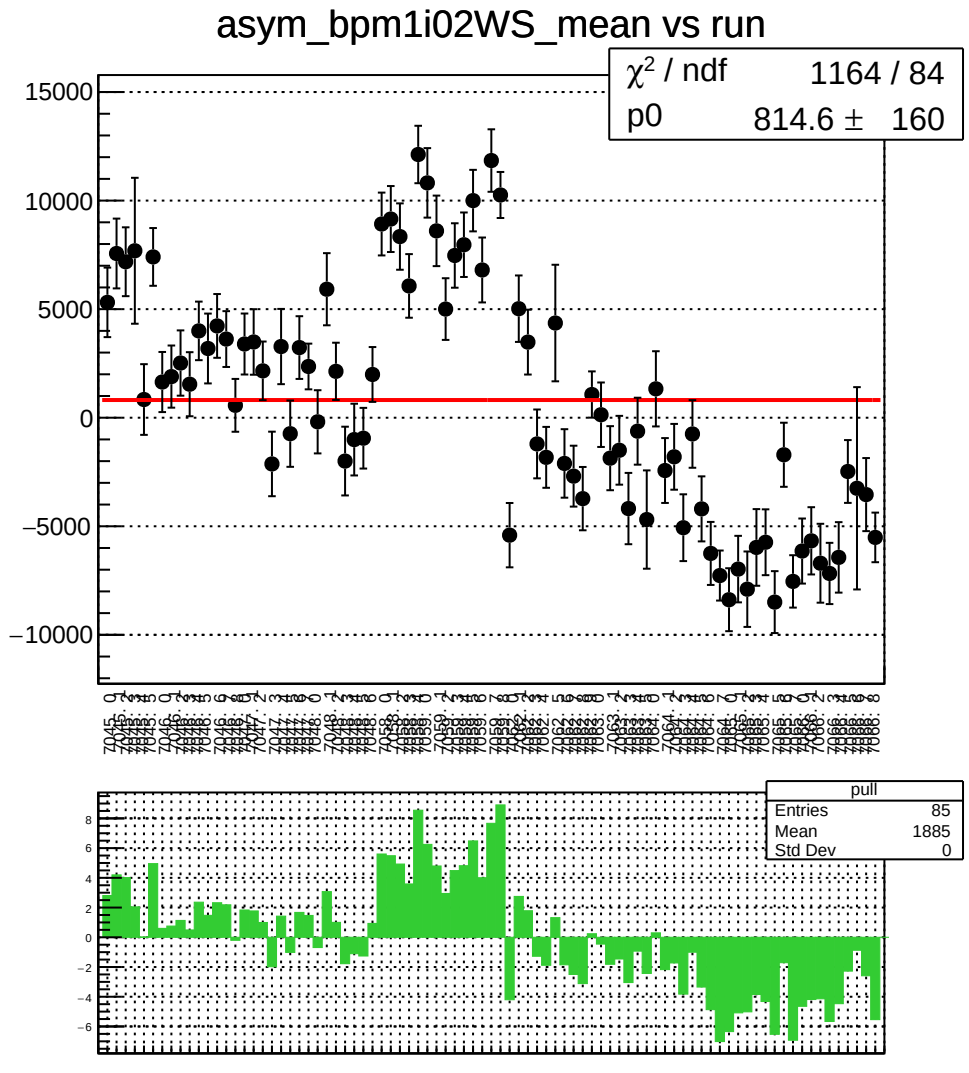
0
2
4
6
8

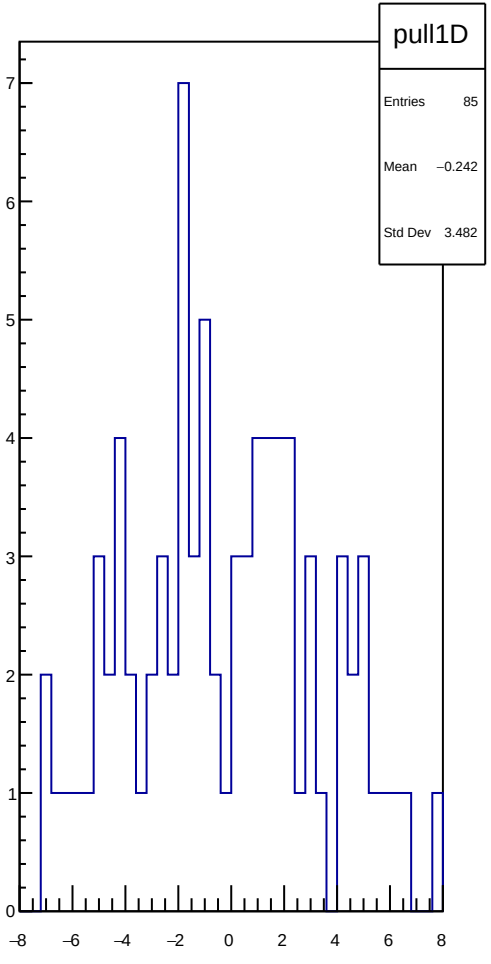

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.194e+04 / 84
p0 225.3 ± 0.1772
550
500
450
400
350
300
250
200
150

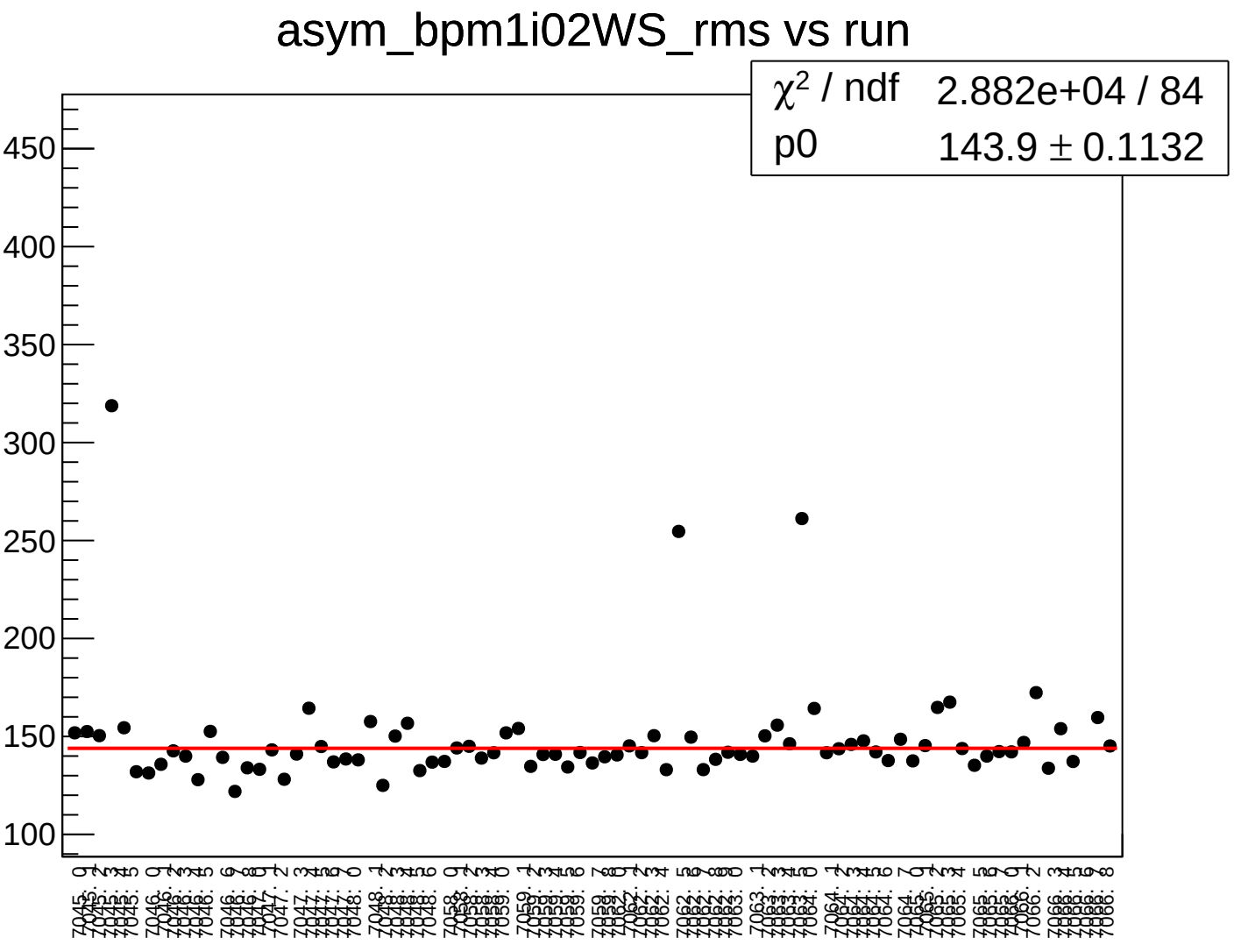

asym_bpm0i07WS_mean vs run
χ² / ndf 90.77 / 84
p0 1099 ± 273
15000
10000
5000
0
−5000
pull
Entries 85
Mean −237.5
Std Dev 0
4
3
2
1
0
−1
−2

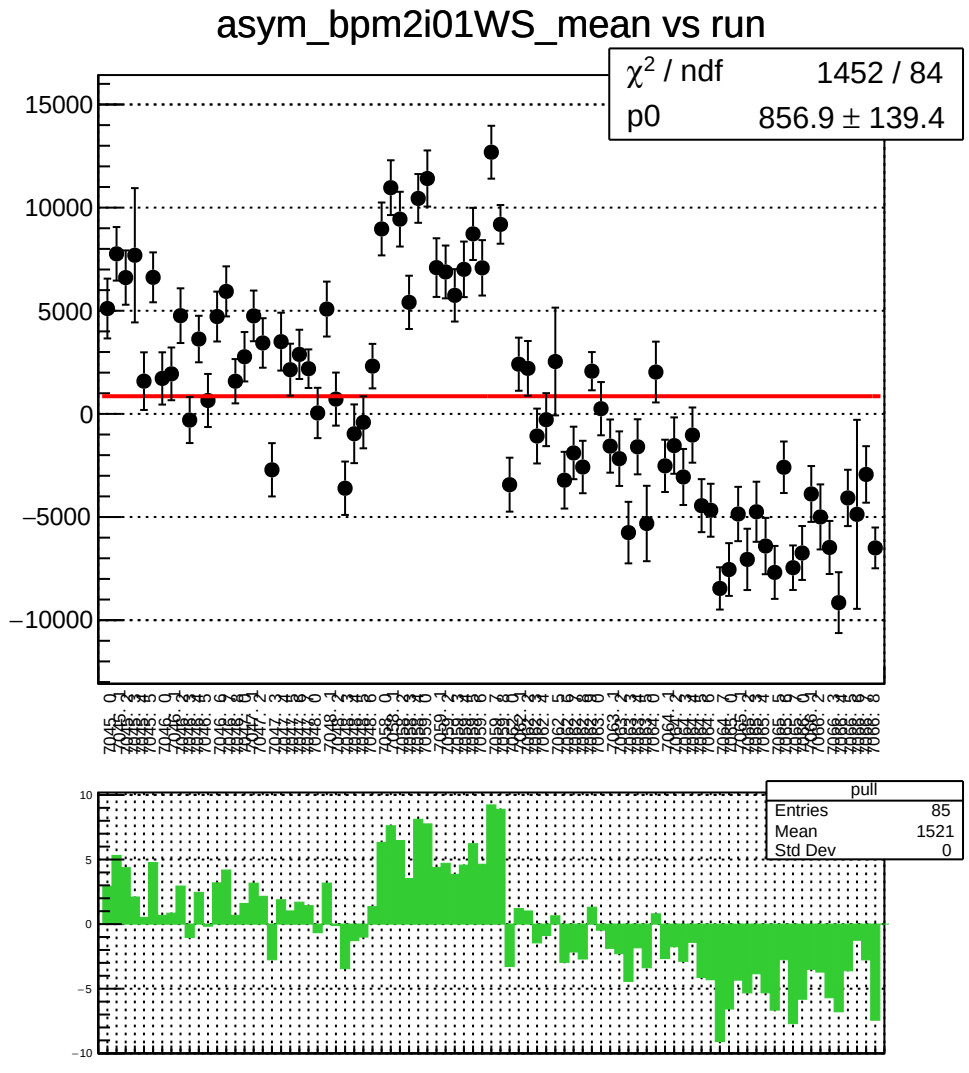

pull1D
Entries 85
Mean 0.02014
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

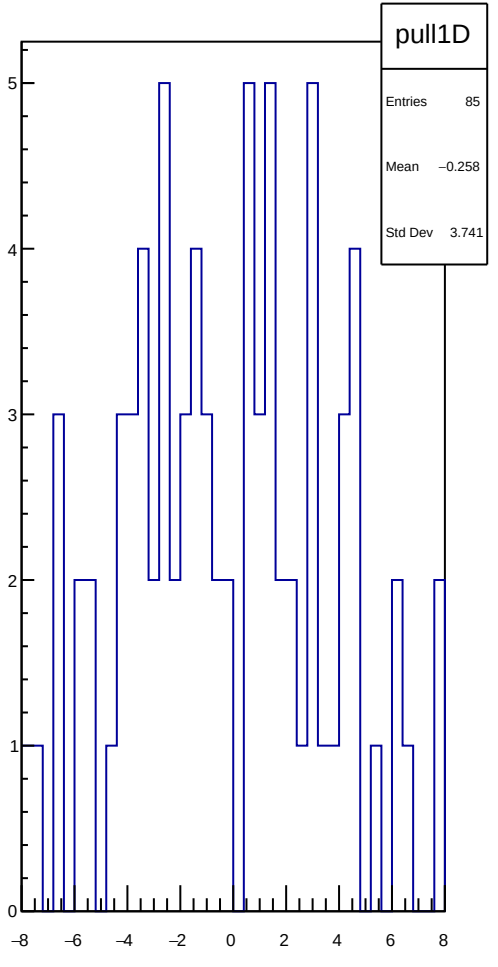

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.357e+04 / 84
p0 246 ± 0.1931
550
500
450
400
350
300
250
200

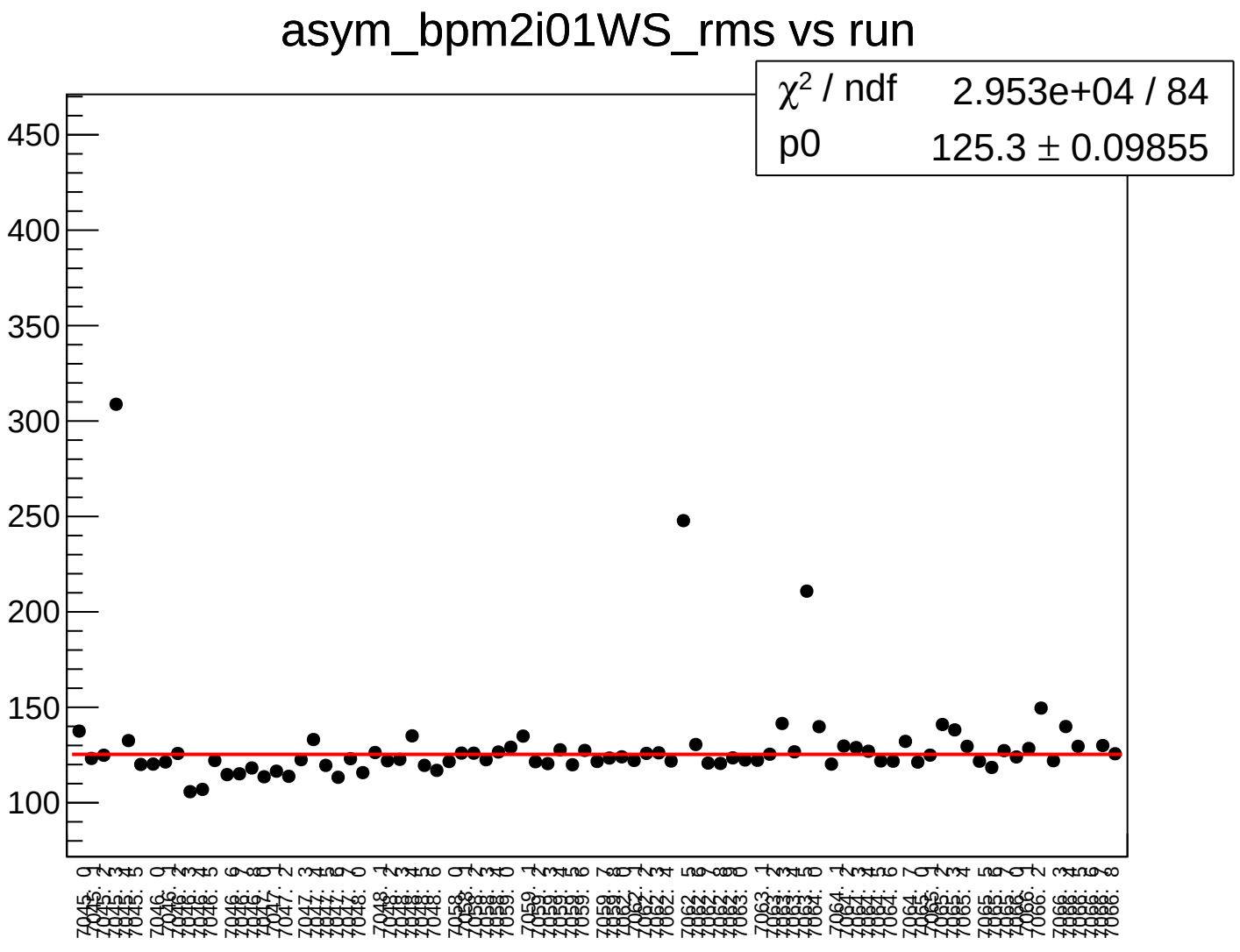

asym_bpm1i02WS_mean vs run
χ² / ndf 1164 / 84
p0 814.6 ± 160
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1885
Std Dev 0
8
6
4
2
0
−2
−4
−6

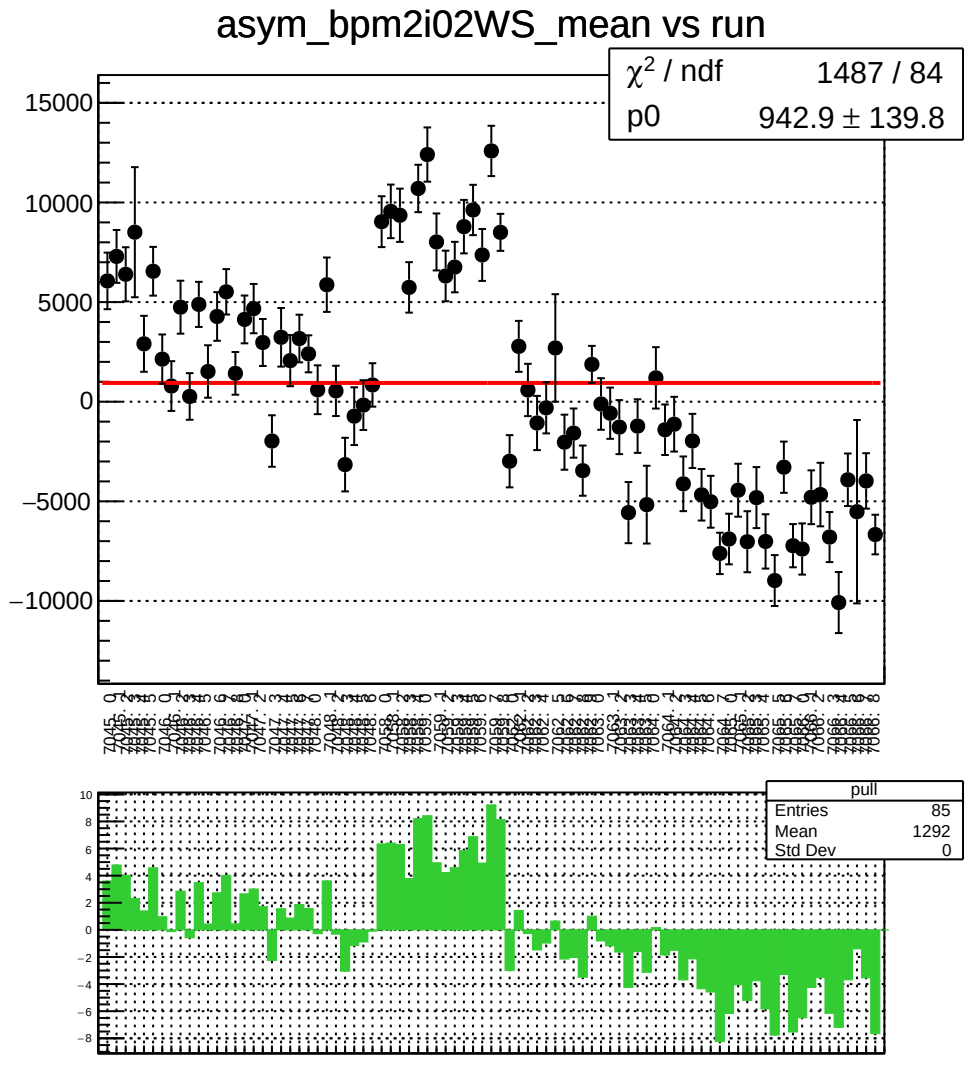

pull1D
Entries 85
Mean −0.242
Std Dev 3.482
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

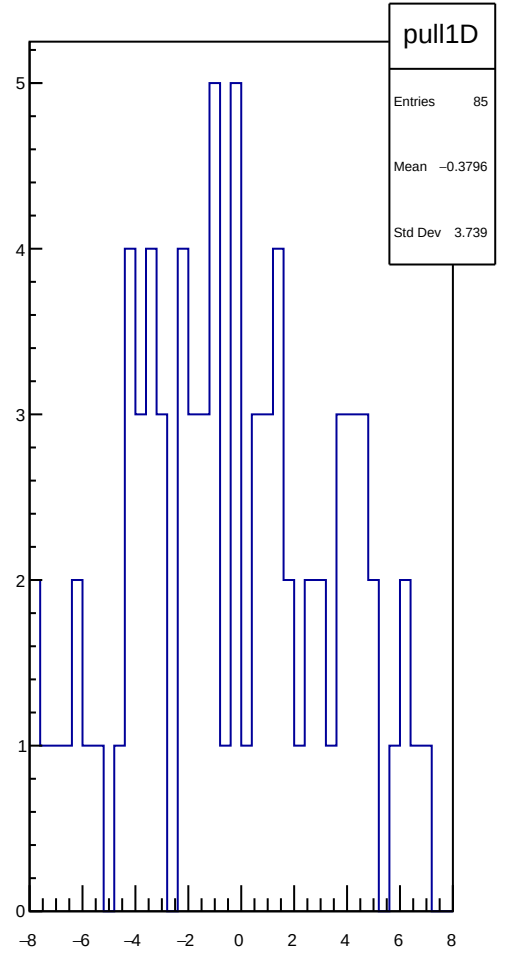

asym_bpm1i02WS_rms vs run
χ² / ndf 2.882e+04 / 84
p0 143.9 ± 0.1132
450
400
350
300
250
200
150
100

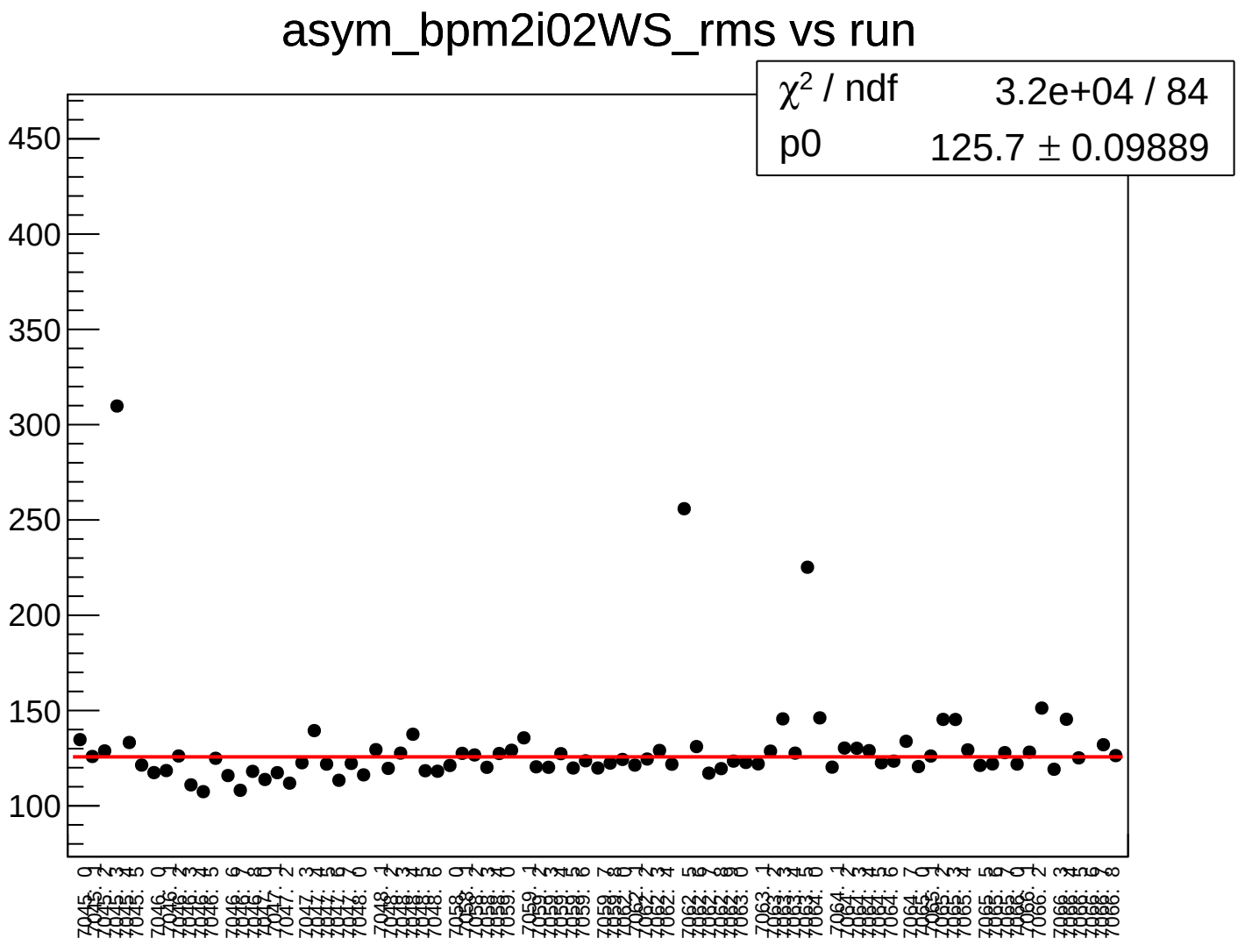

asym_bpm2i01WS_mean vs run
χ² / ndf 1452 / 84
p0 856.9 ± 139.4
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1521
Std Dev 0
10
5
0
−5
−10

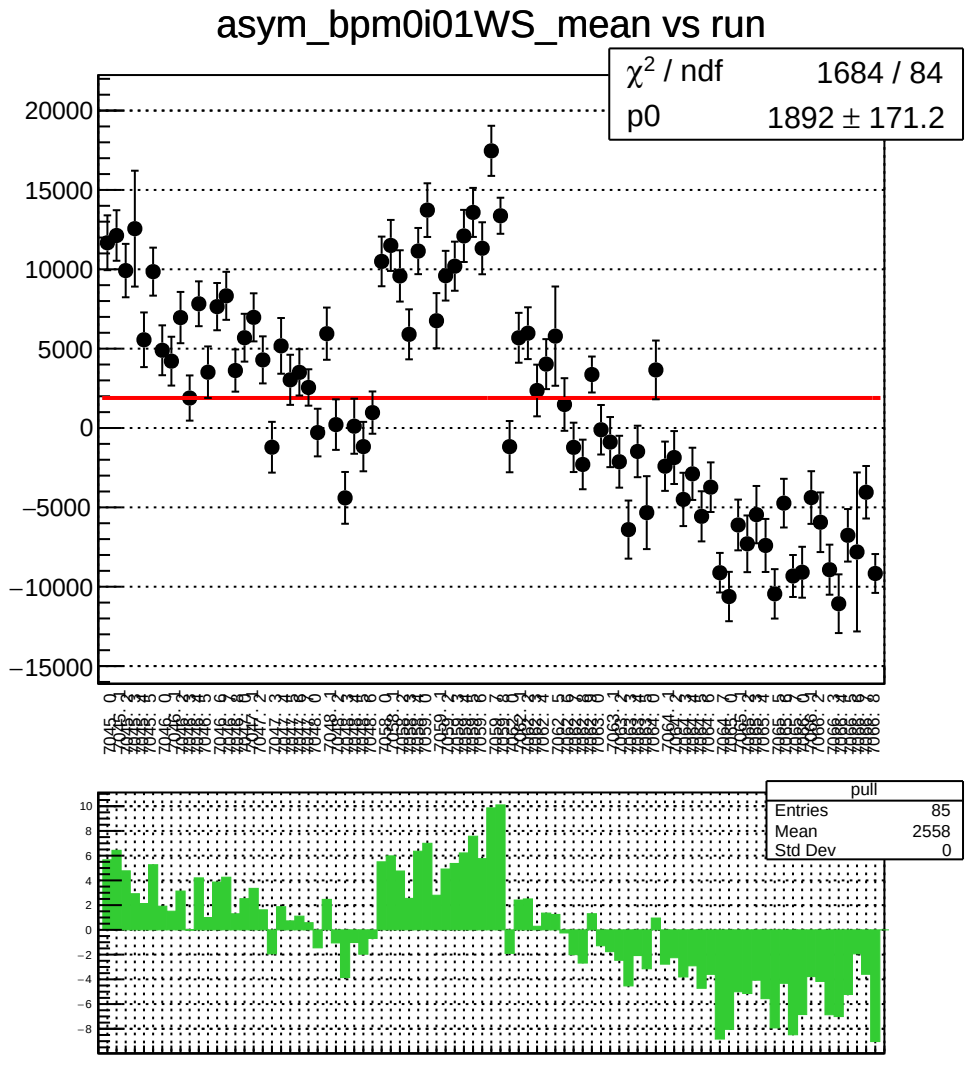

pull1D
Entries 85
Mean −0.258
Std Dev 3.741
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

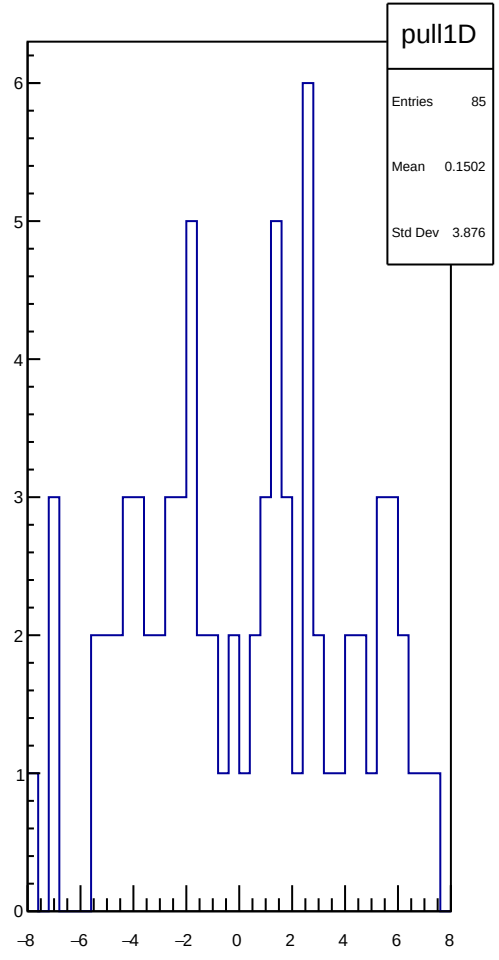

asym_bpm2i01WS_rms vs run
χ^2 / ndf 2.953e+04 / 84
p0 125.3 ± 0.09855
450
400
350
300
250
200
150
100

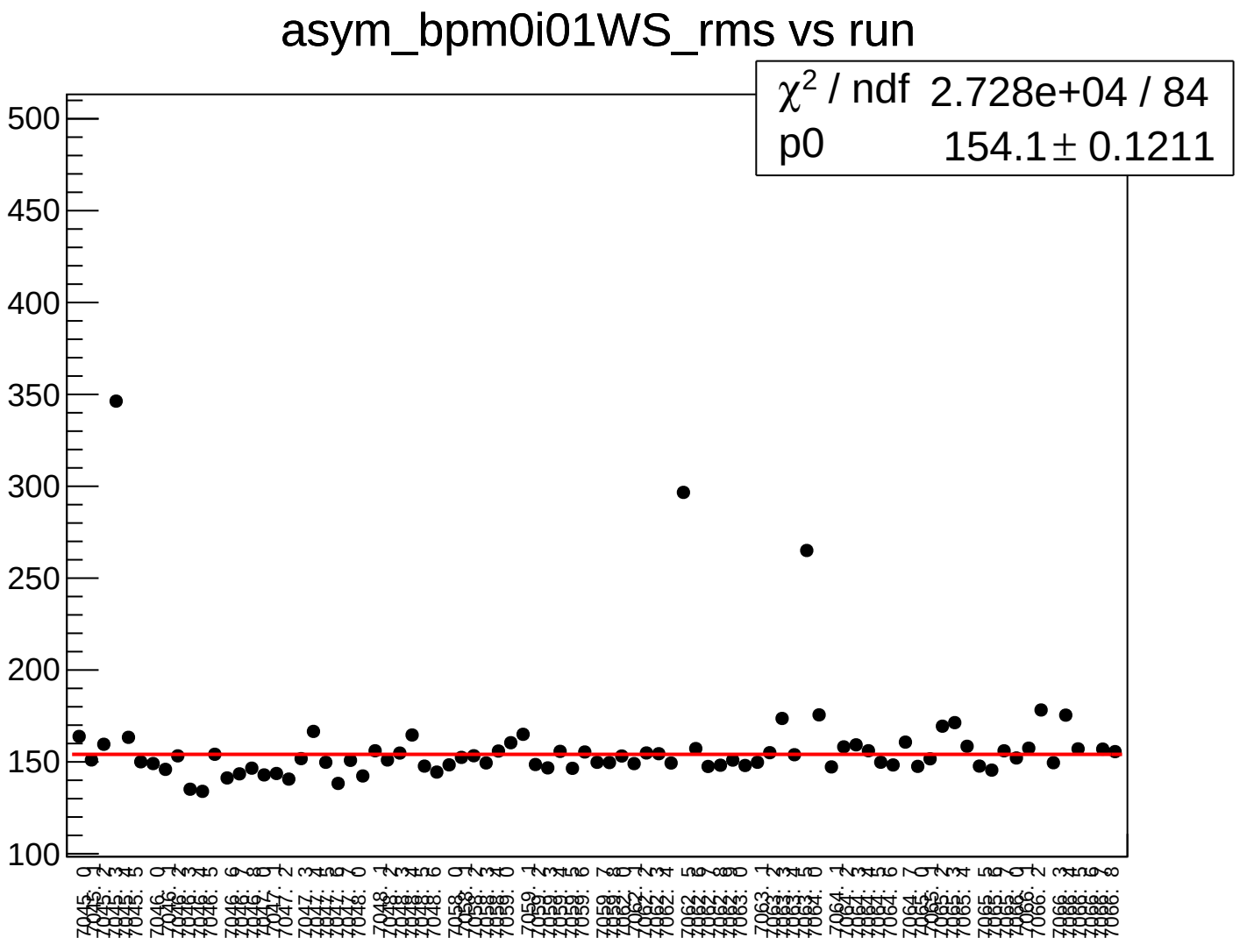

asym_bpm2i02WS_mean vs run
χ² / ndf 1487 / 84
p0 942.9 ± 139.8
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1292
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

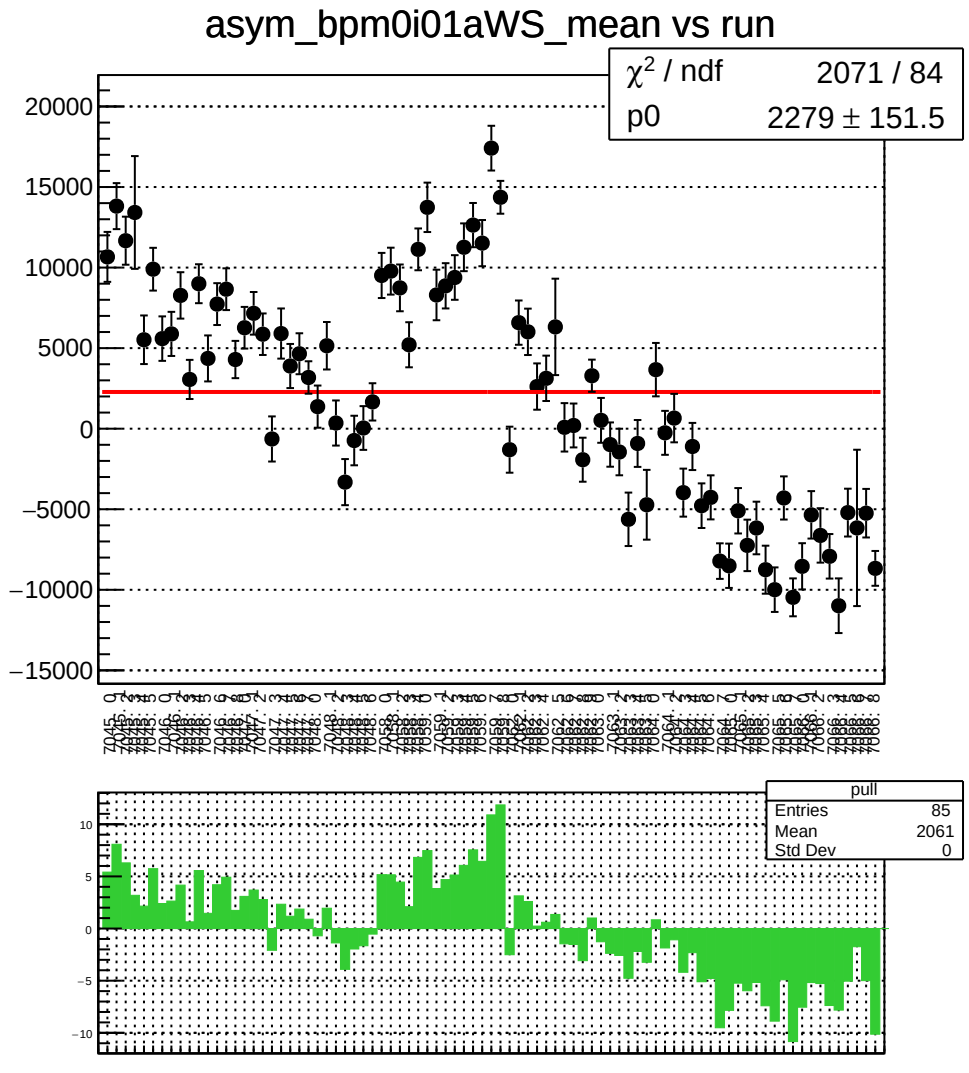

pull1D
Entries 85
Mean −0.3796
Std Dev 3.739
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

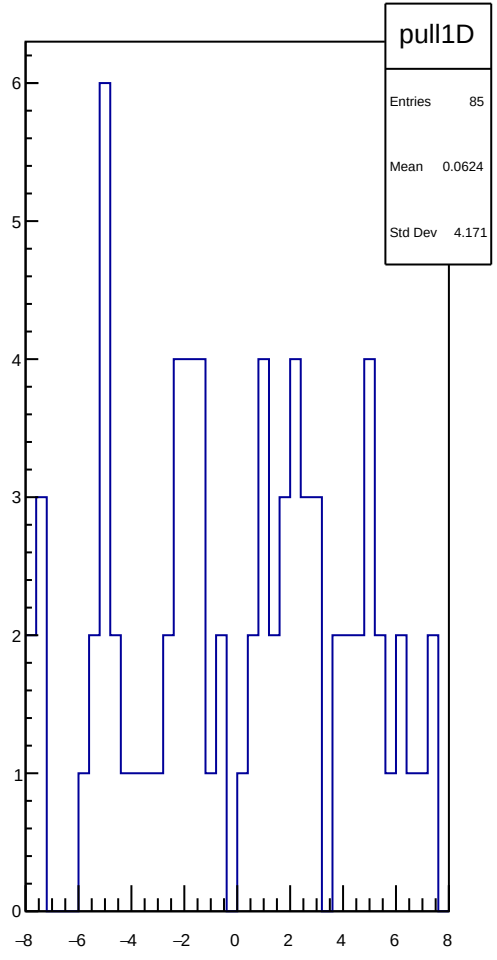

asym_bpm2i02WS_rms vs run
χ² / ndf 3.2e+04 / 84
p0 125.7 ± 0.09889
450
400
350
300
250
200
150
100

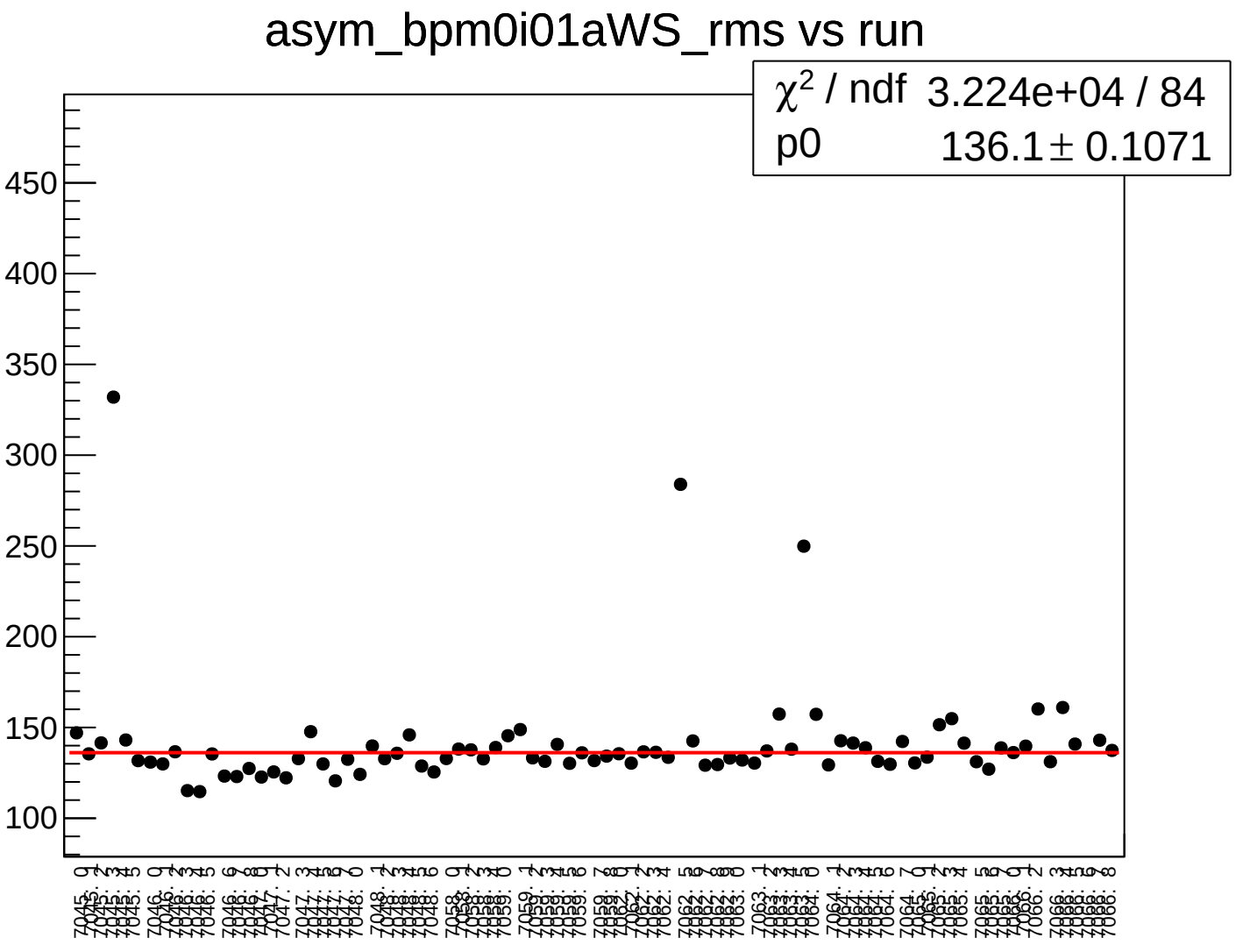

asym_bpm0i01WS_mean vs run
χ² / ndf 1684 / 84
p0 1892 ± 171.2
pull
Entries 85
Mean 2558
Std Dev 0

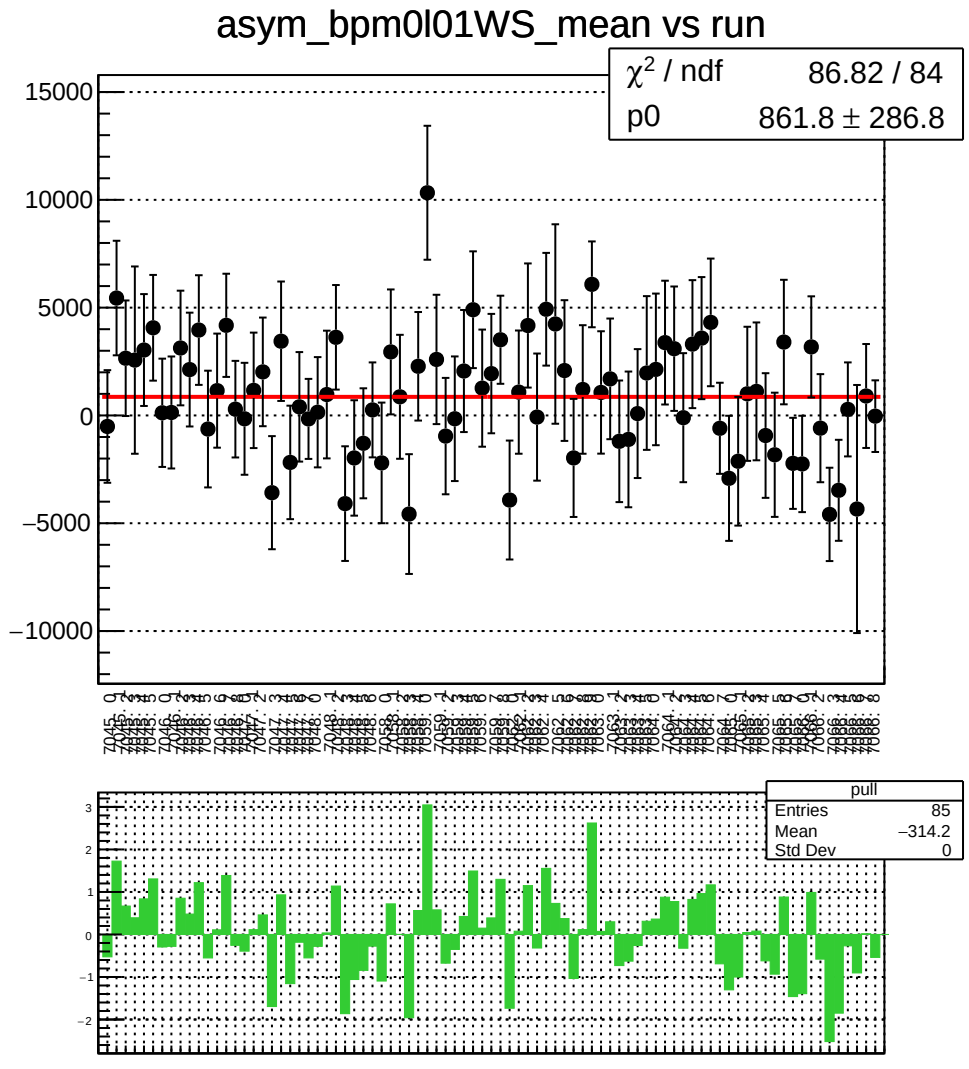

pull1D
Entries 85
Mean 0.1502
Std Dev 3.876

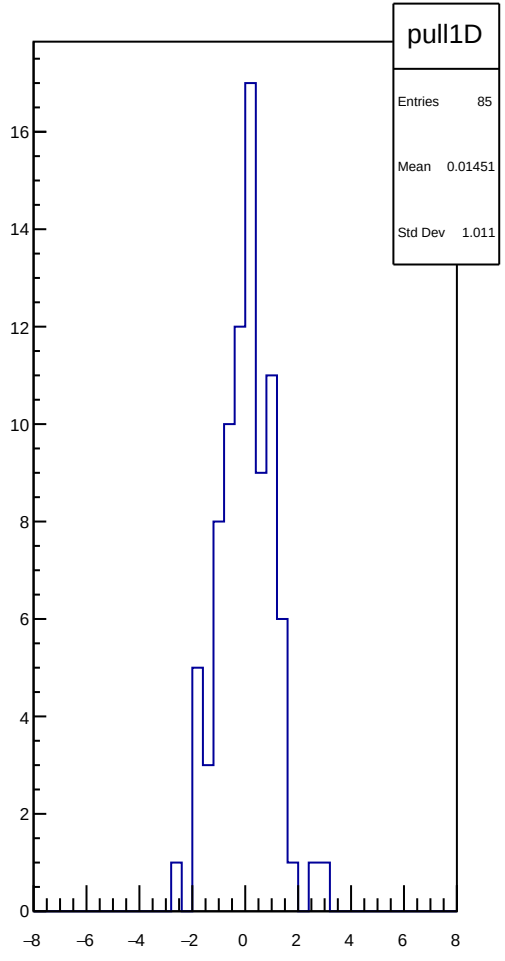

asym_bpm0i01WS_rms vs run
χ² / ndf 2.728e+04 / 84
p0 154.1 ± 0.1211
500
450
400
350
300
250
200
150
100

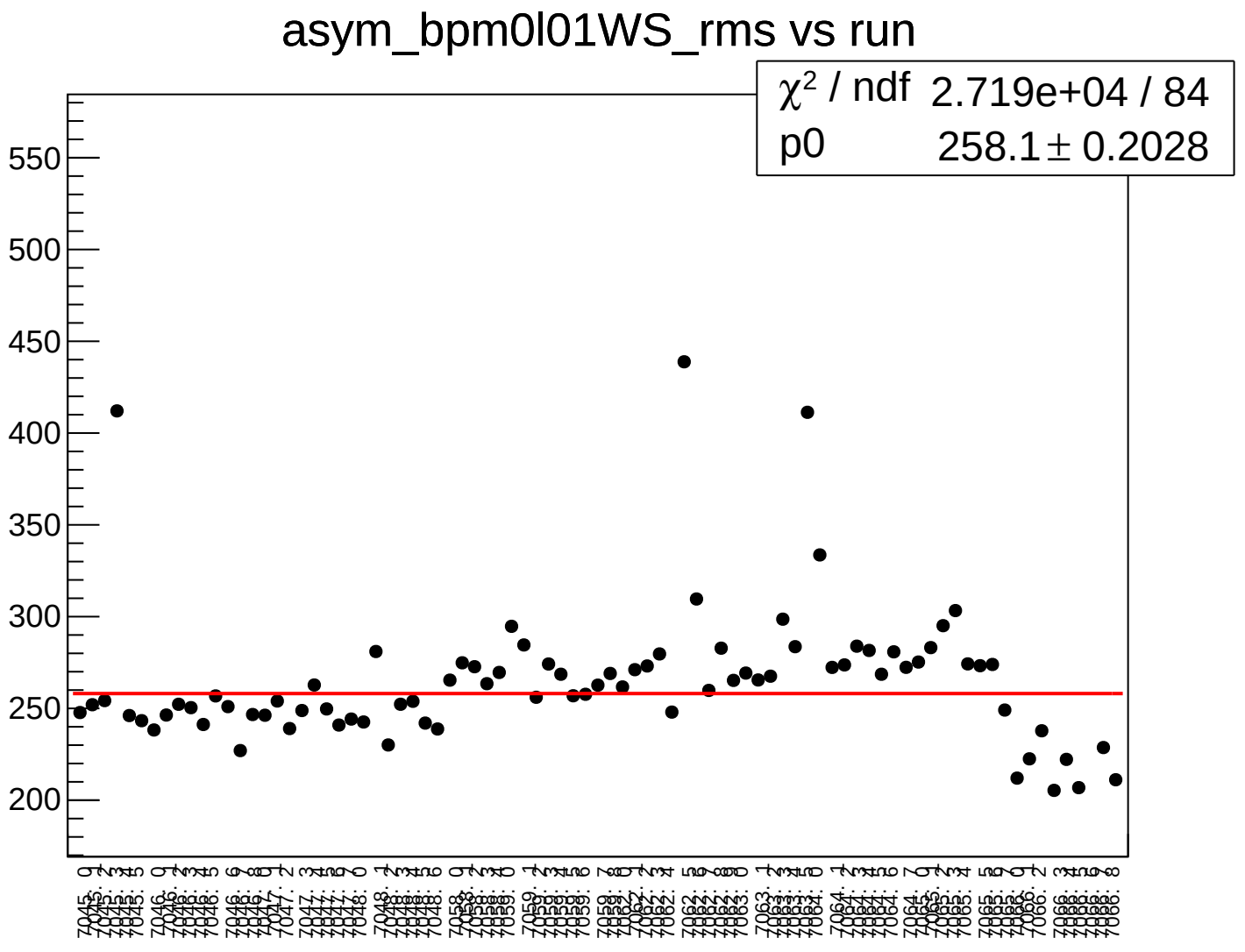

asym_bpm0i01aWS_mean vs run
χ² / ndf 2071 / 84
p0 2279 ± 151.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 2061
Std Dev 0
10
5
0
−5
−10

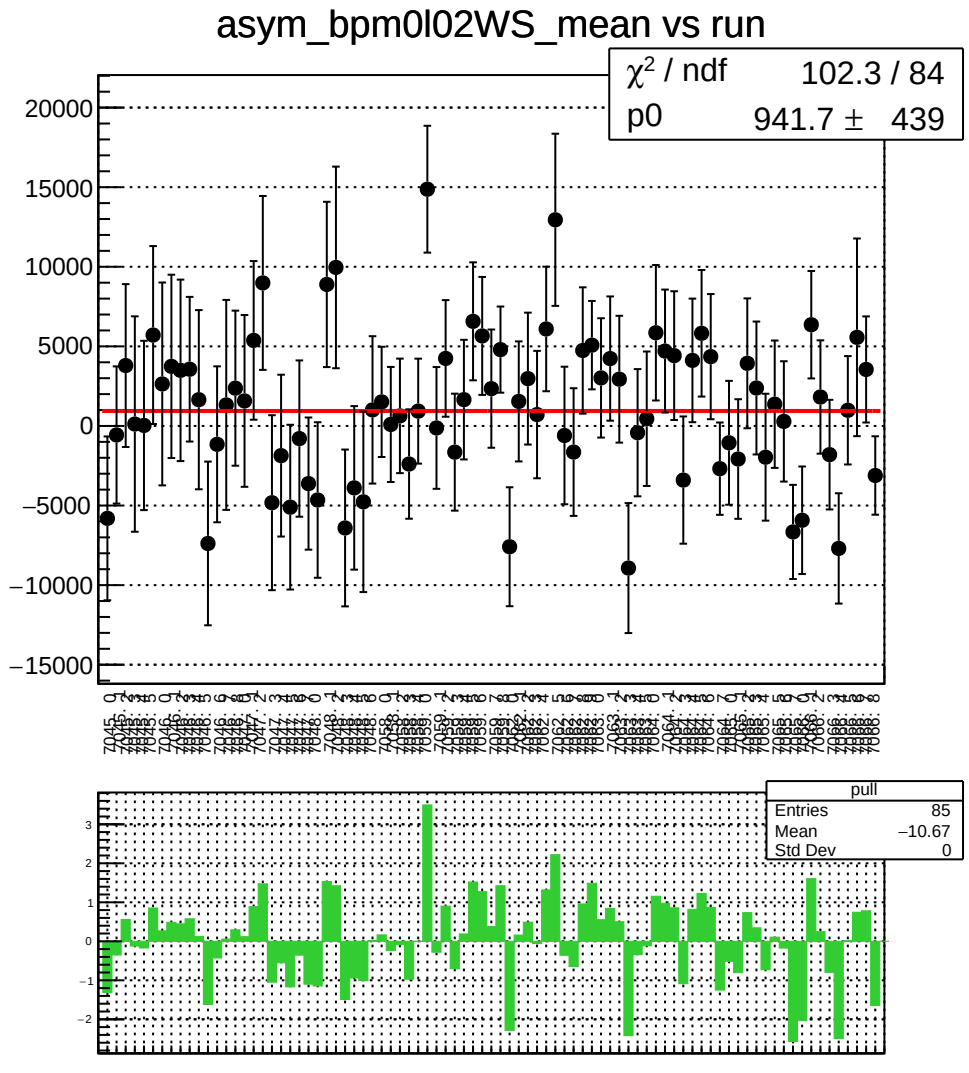

pull1D
Entries 85
Mean 0.0624
Std Dev 4.171
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

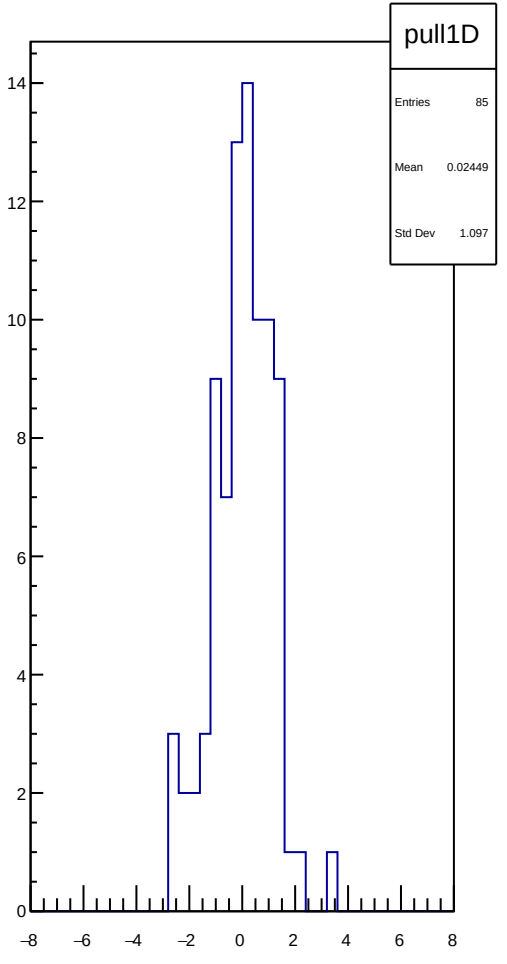

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 3.224e+04 / 84
p0 136.1 ± 0.1071
450
400
350
300
250
200
150
100

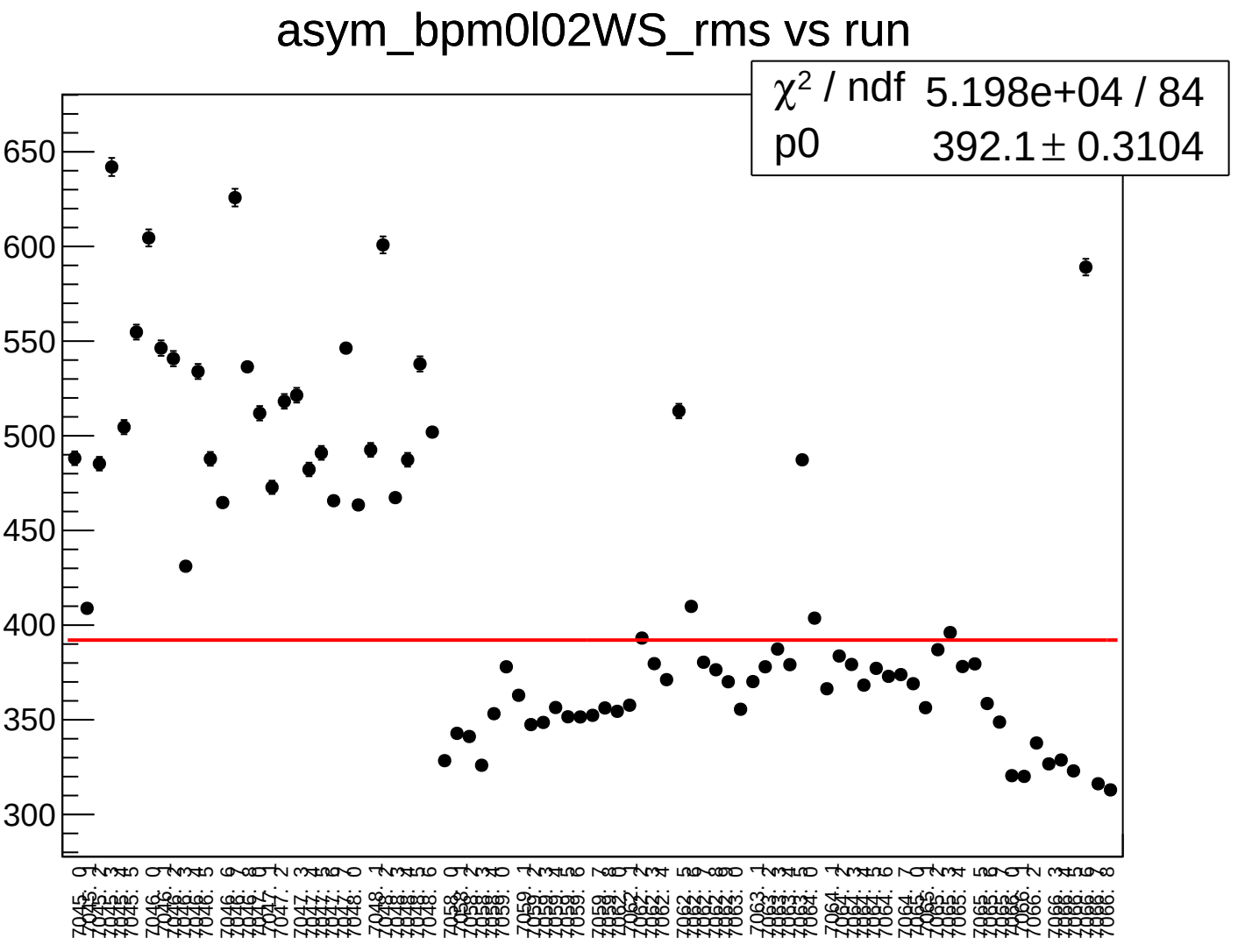

asym_bpm0l01WS_mean vs run
χ² / ndf 86.82 / 84
p0 861.8 ± 286.8
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −314.2
Std Dev 0
3
2
1
0
−1
−2

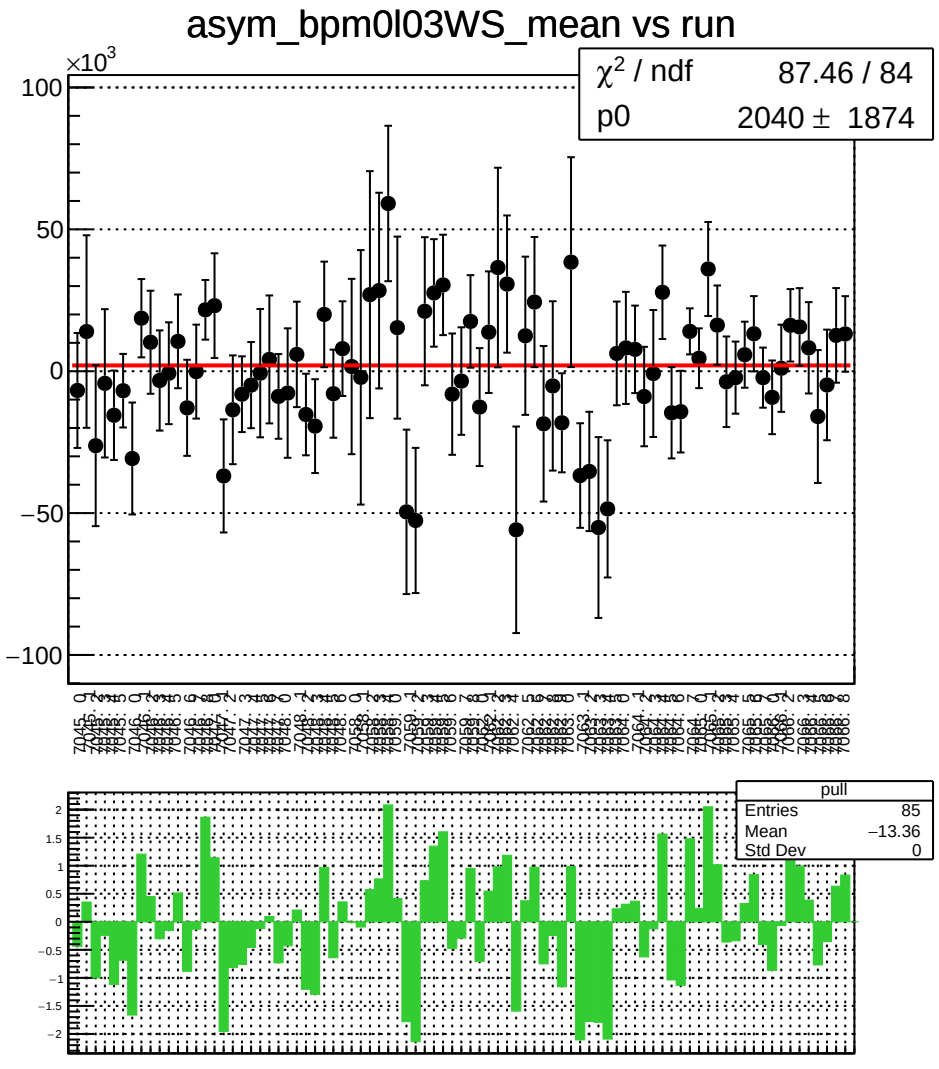

pull1D
Entries 85
Mean 0.01451
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

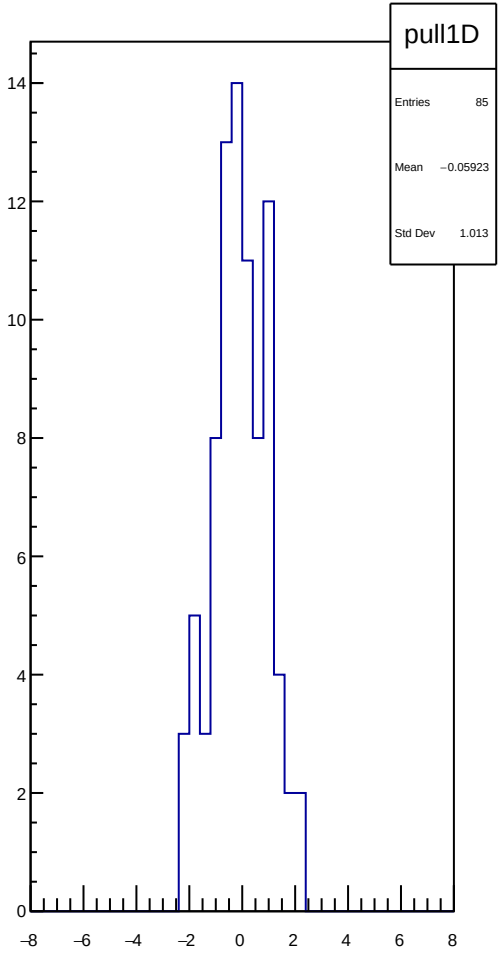

asym_bpm0l01WS_rms vs run
χ² / ndf 2.719e+04 / 84
p0 258.1 ± 0.2028
550
500
450
400
350
300
250
200

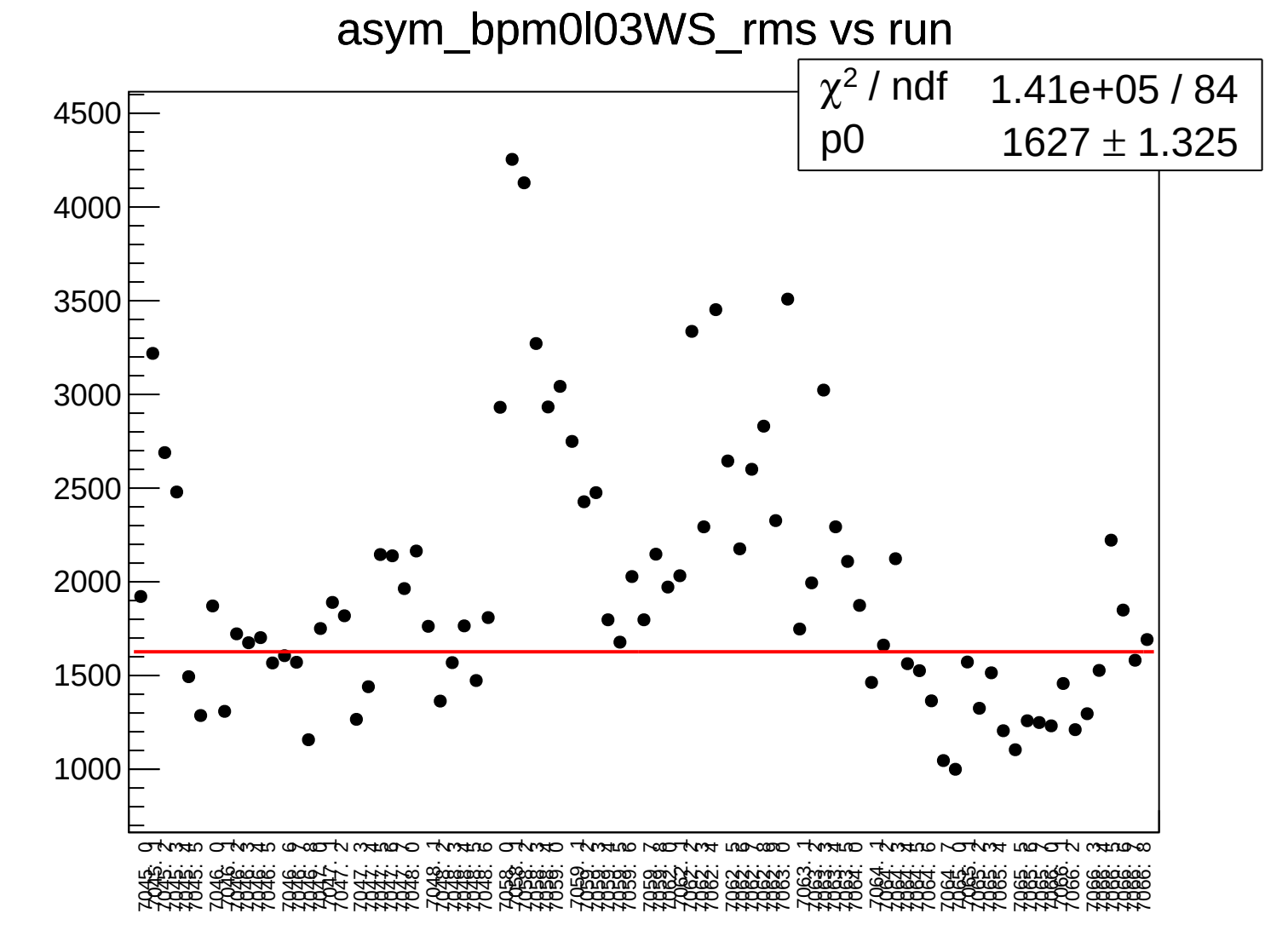

asym_bpm0l02WS_mean vs run
χ² / ndf 102.3 / 84
p0 941.7 ± 439
pull
Entries 85
Mean −10.67
Std Dev 0

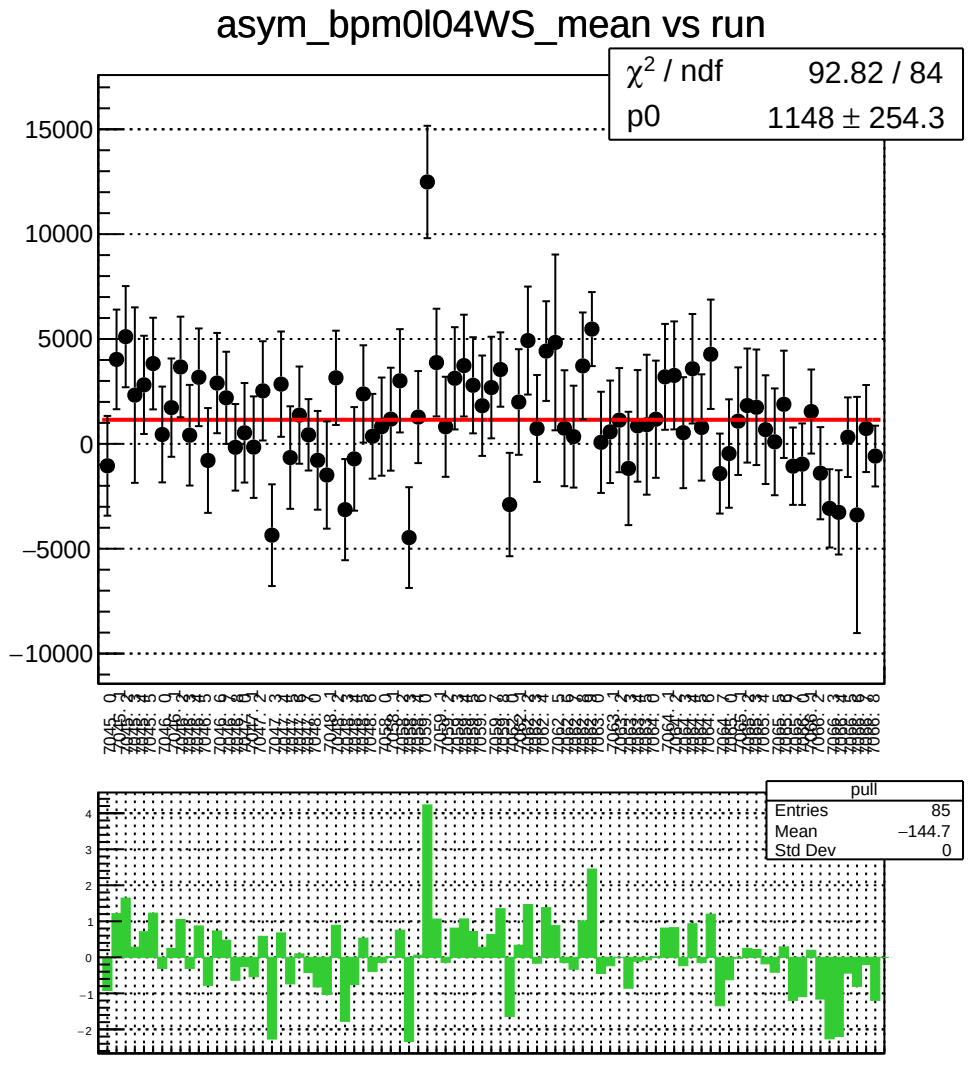

pull1D
Entries 85
Mean 0.02449
Std Dev 1.097

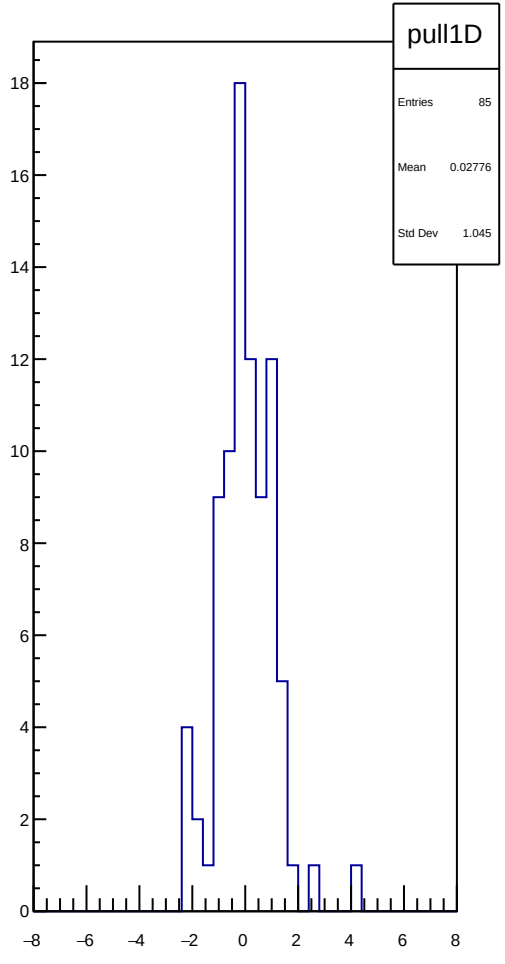

asym_bpm0l02WS_rms vs run
χ² / ndf 5.198e+04 / 84
p0 392.1 ± 0.3104
650
600
550
500
450
400
350
300

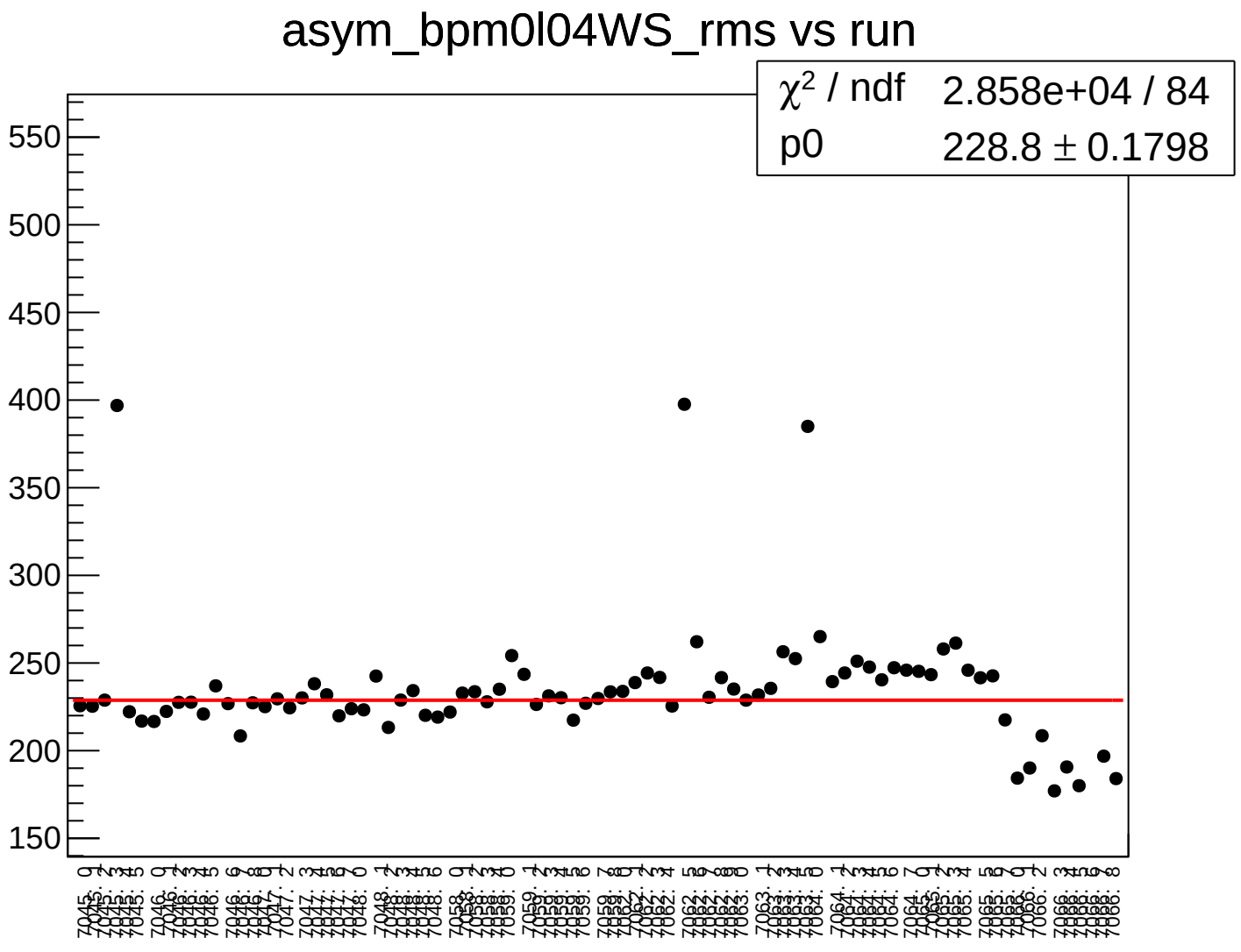

asym_bpm0l03WS_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.46 / 84
p0 2040 ± 1874
pull
Entries 85
Mean −13.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

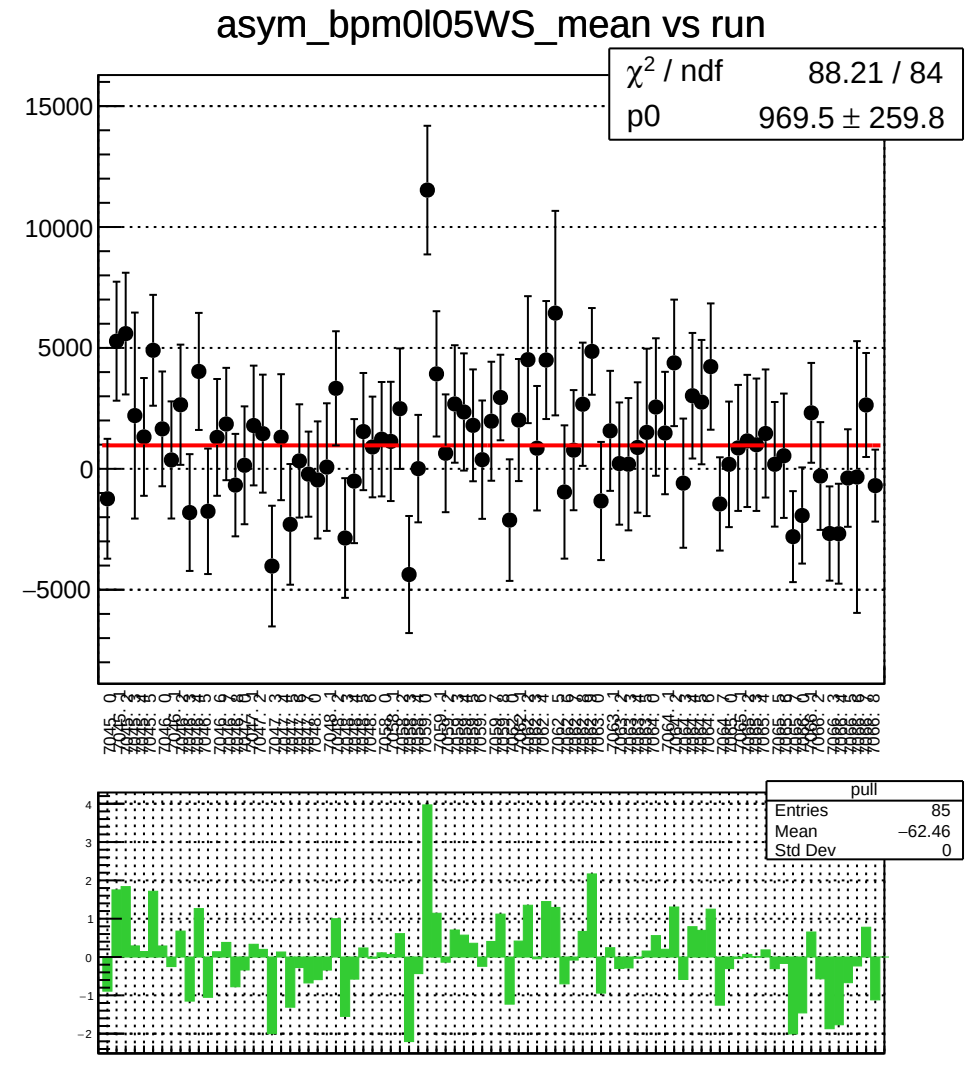

pull1D
Entries 85
Mean −0.05923
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

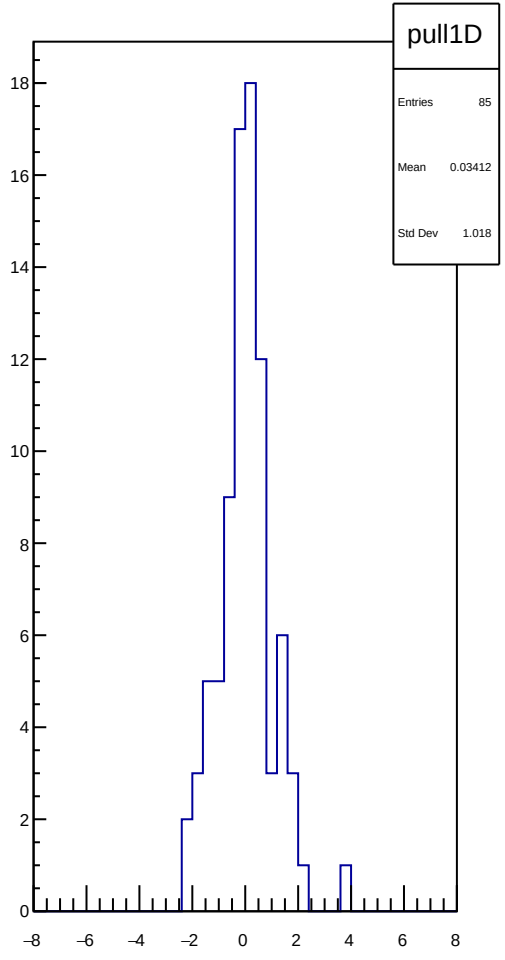

asym_bpm0l03WS_rms vs run
χ² / ndf 1.41e+05 / 84
p0 1627 ± 1.325
4500
4000
3500
3000
2500
2000
1500
1000

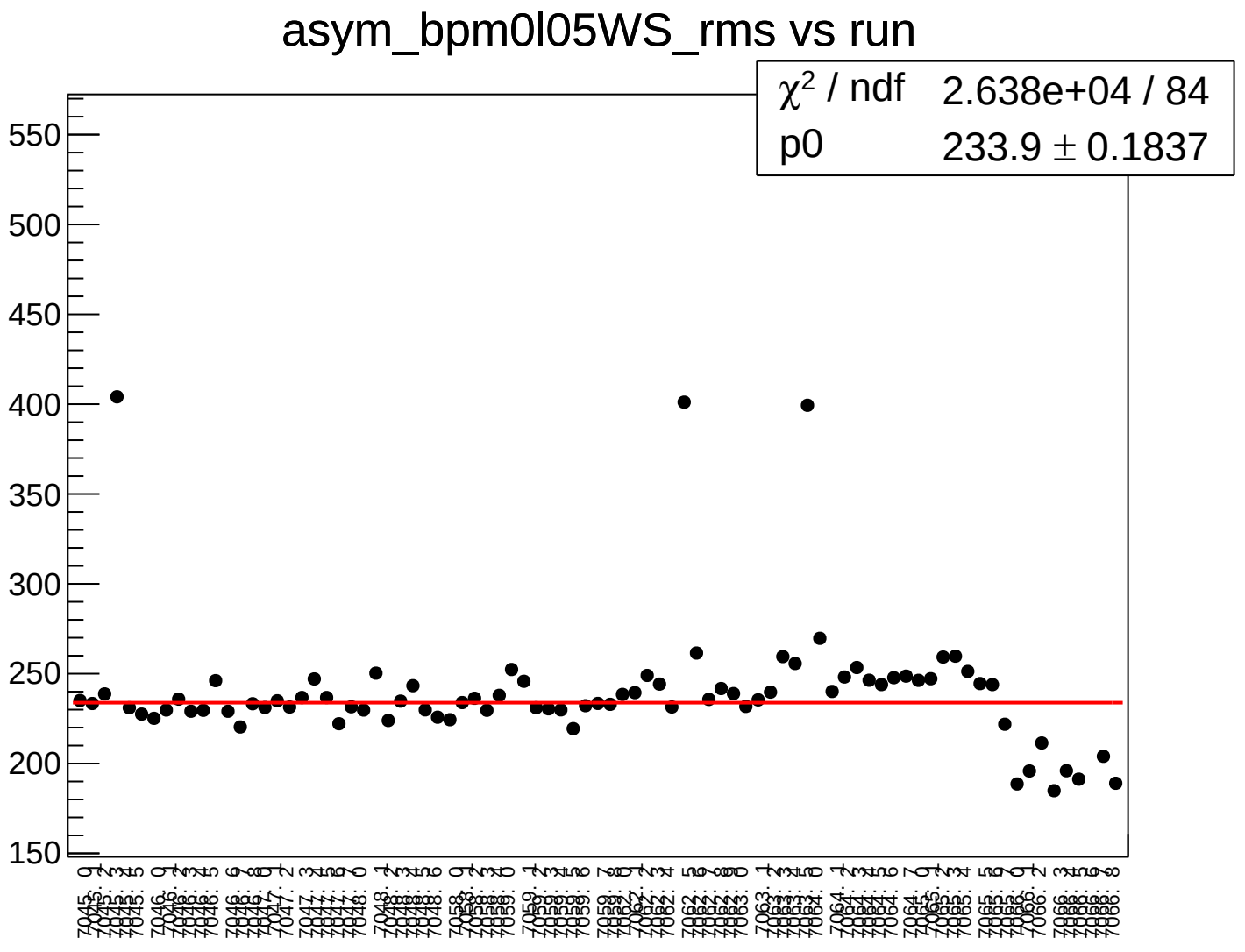

asym_bpm0l04WS_mean vs run
χ² / ndf 92.82 / 84
p0 1148 ± 254.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −144.7
Std Dev 0
4
3
2
1
0
−1
−2

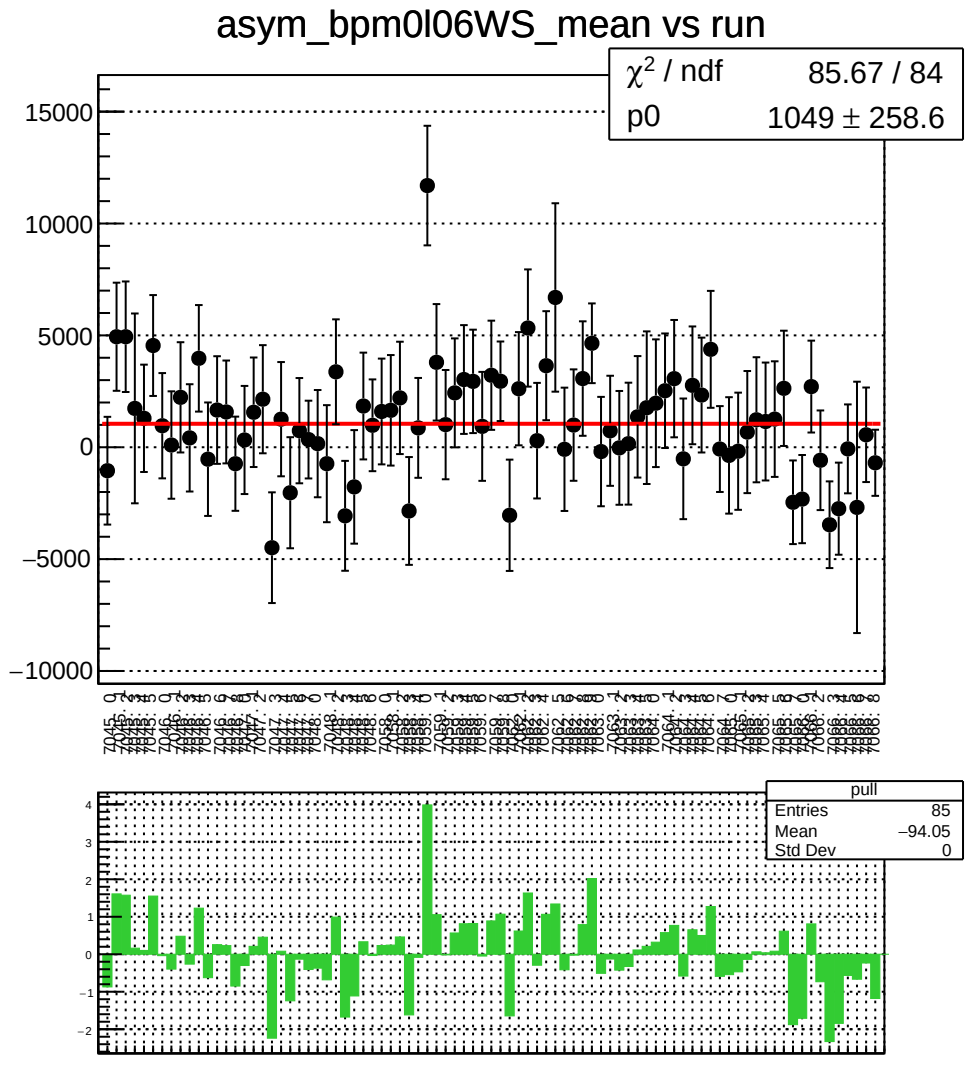

pull1D
Entries 85
Mean 0.02776
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

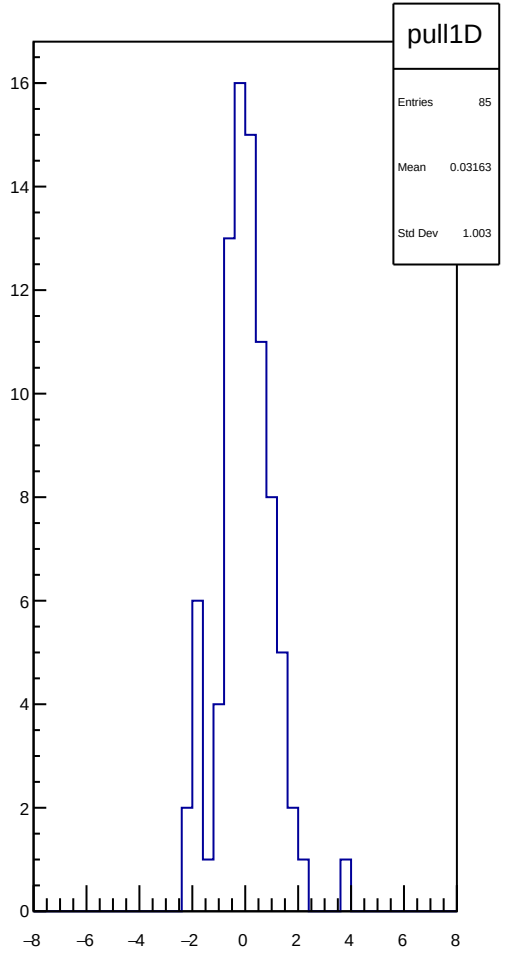

asym_bpm0l04WS_rms vs run
χ^2 / ndf 2.858e+04 / 84
p0 228.8 ± 0.1798
550
500
450
400
350
300
250
200
150


asym_bpm0l05WS_mean vs run
χ² / ndf 88.21 / 84
p0 969.5 ± 259.8
15000
10000
5000
0
−5000
pull
Entries 85
Mean −62.46
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.03412
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l05WS_rms vs run
χ² / ndf 2.638e+04 / 84
p0 233.9 ± 0.1837
550
500
450
400
350
300
250
200
150


asym_bpm0l06WS_mean vs run
χ² / ndf 85.67 / 84
p0 1049 ± 258.6
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −94.05
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.03163
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
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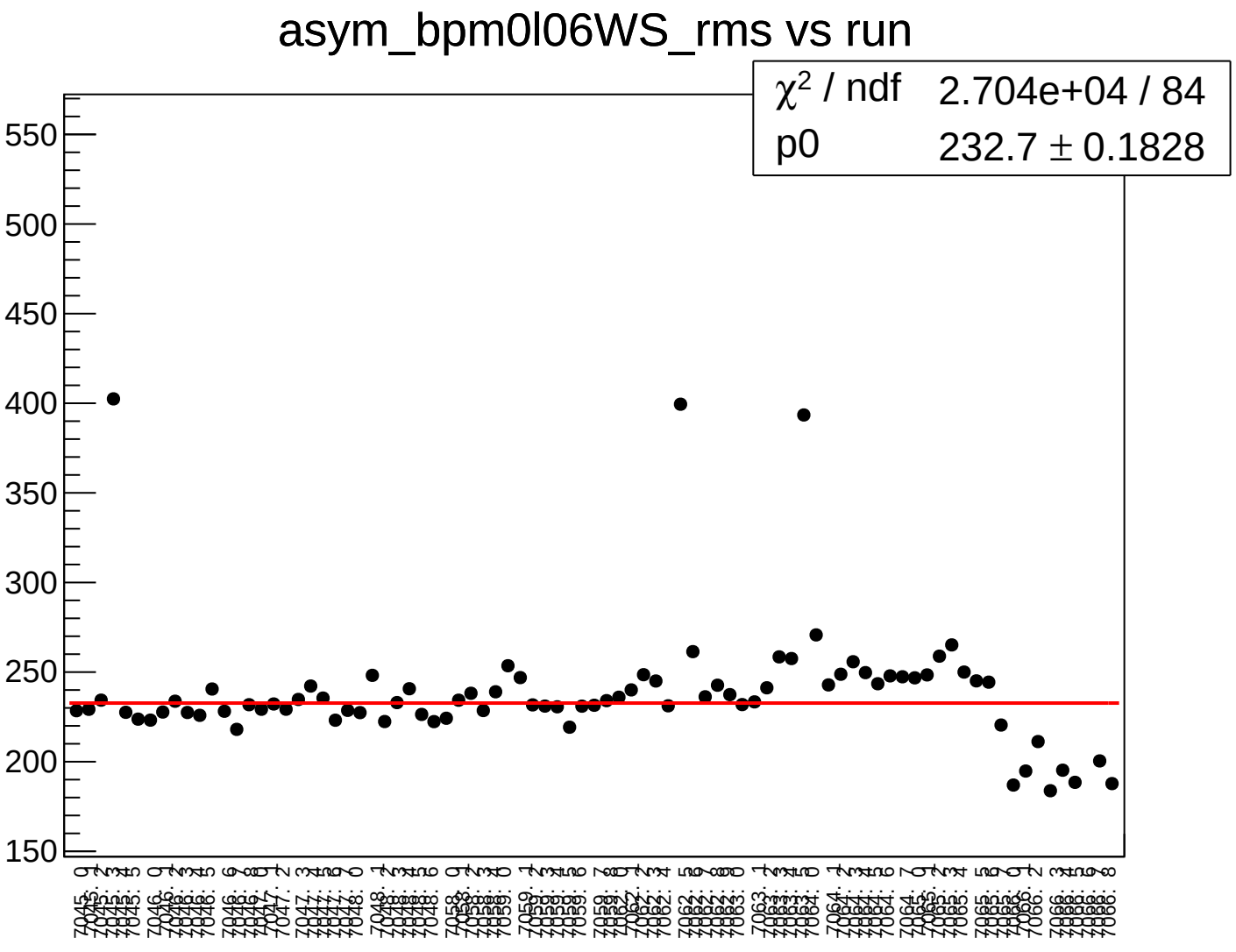
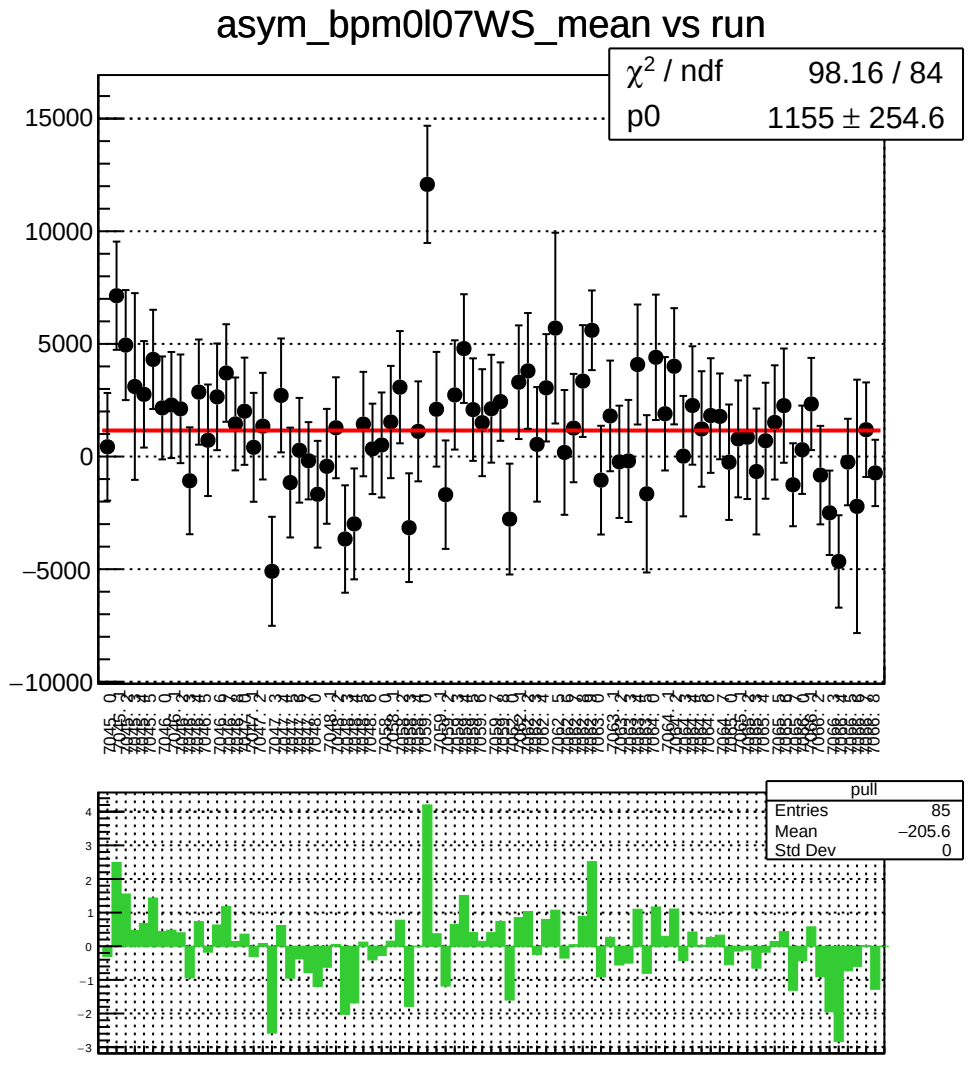
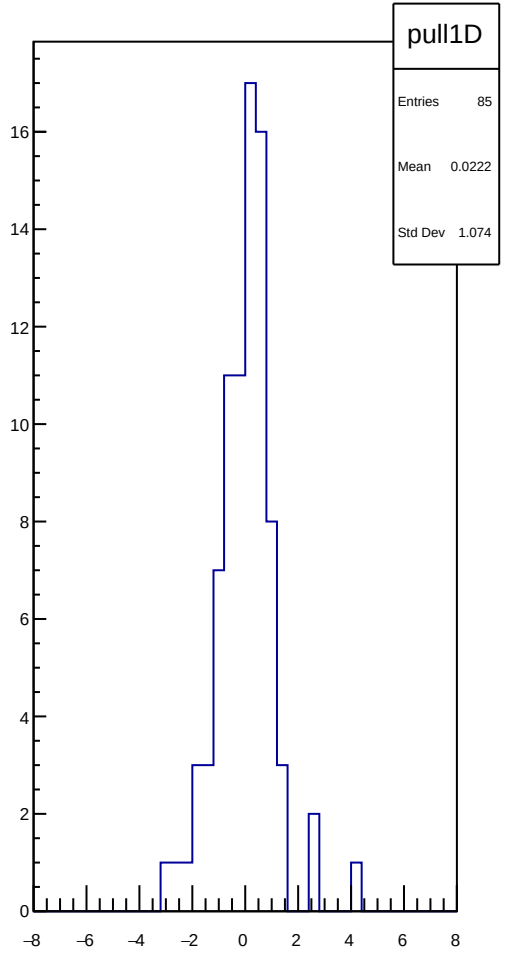
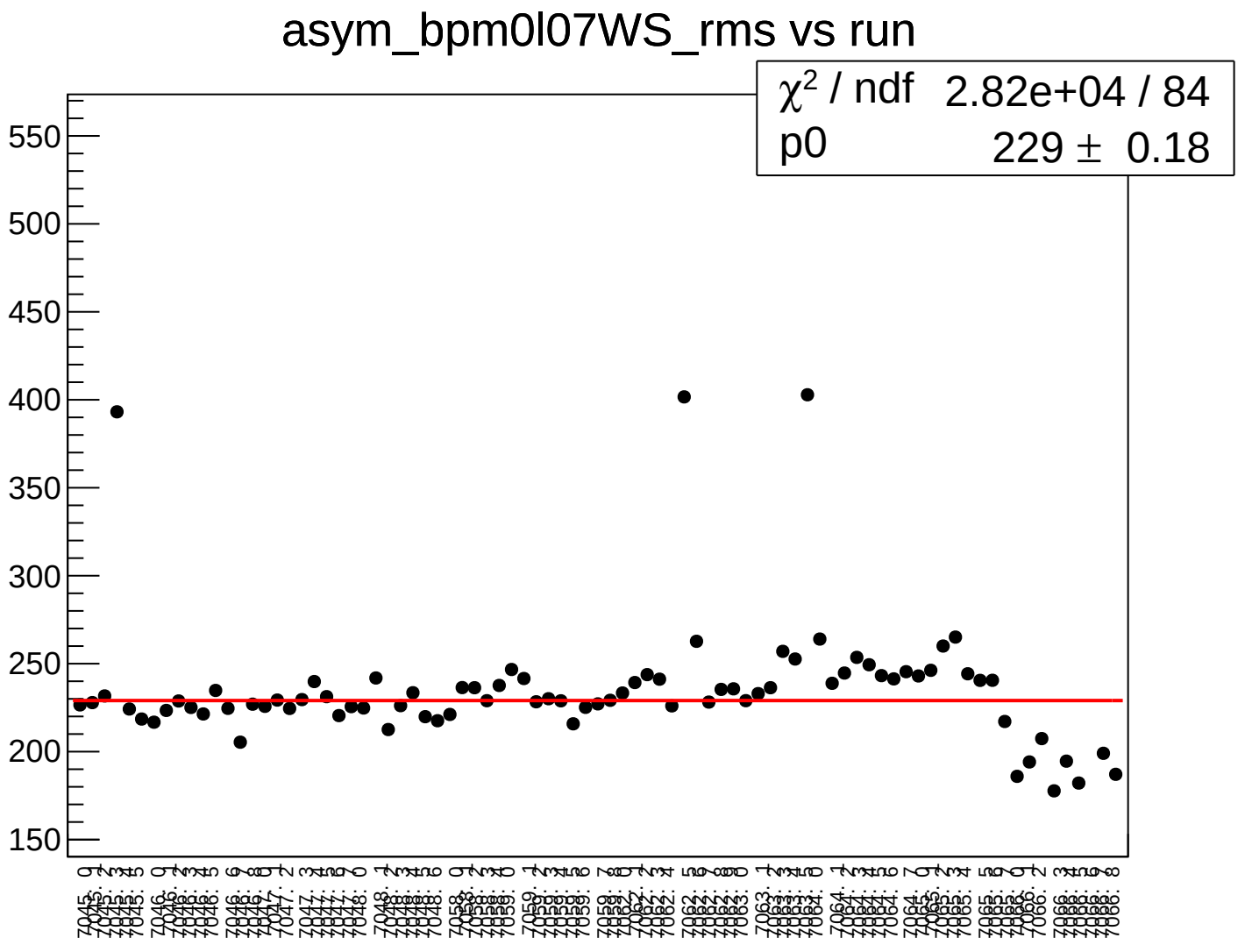
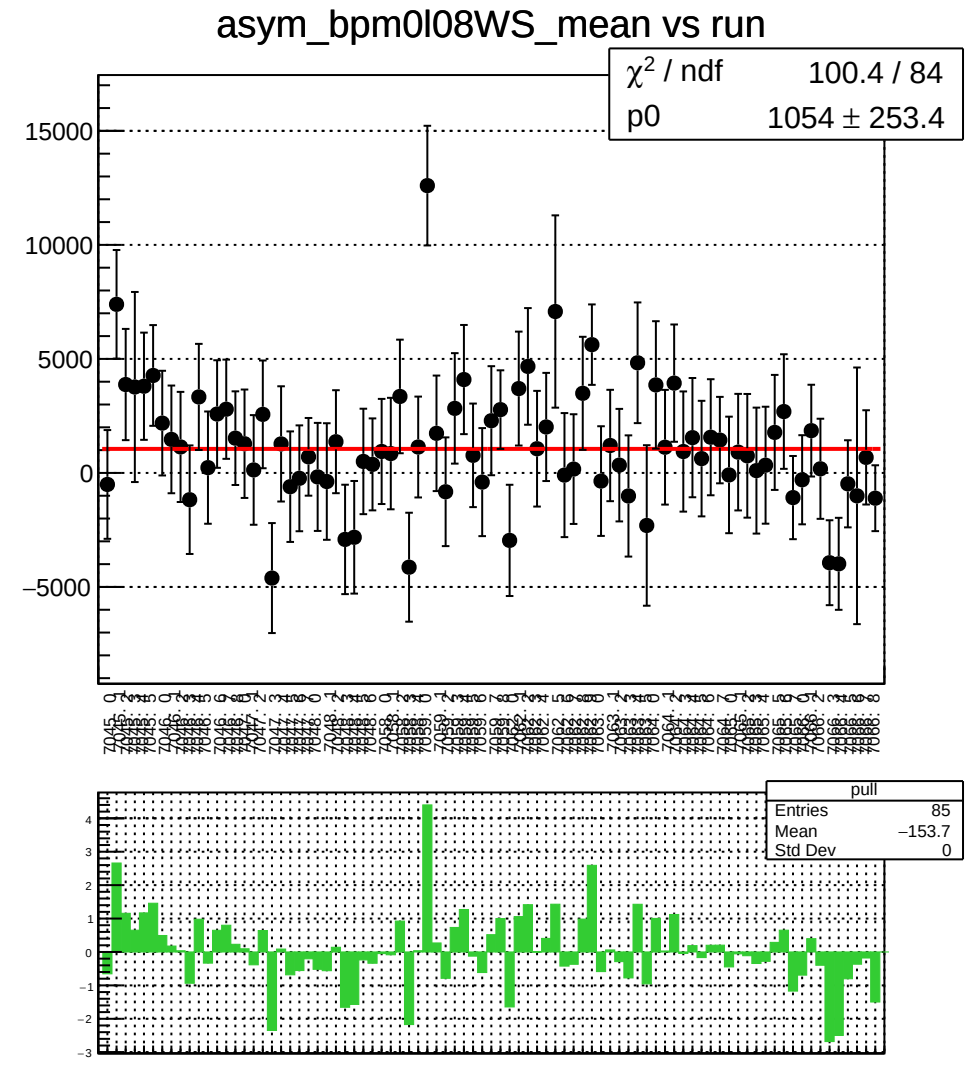
0
2
4
6
8

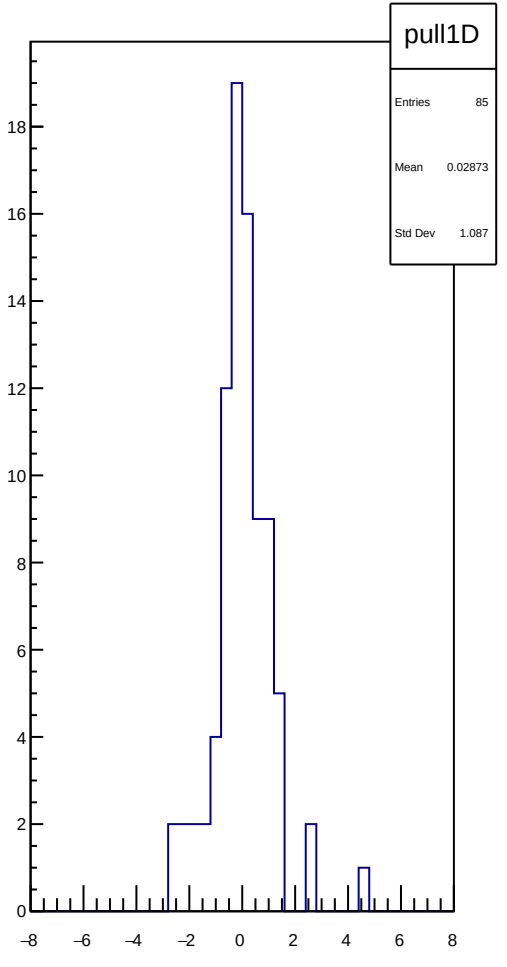

asym_bpm0l06WS_rms vs run
χ² / ndf 2.704e+04 / 84
p0 232.7 ± 0.1828
550
500
450
400
350
300
250
200
150

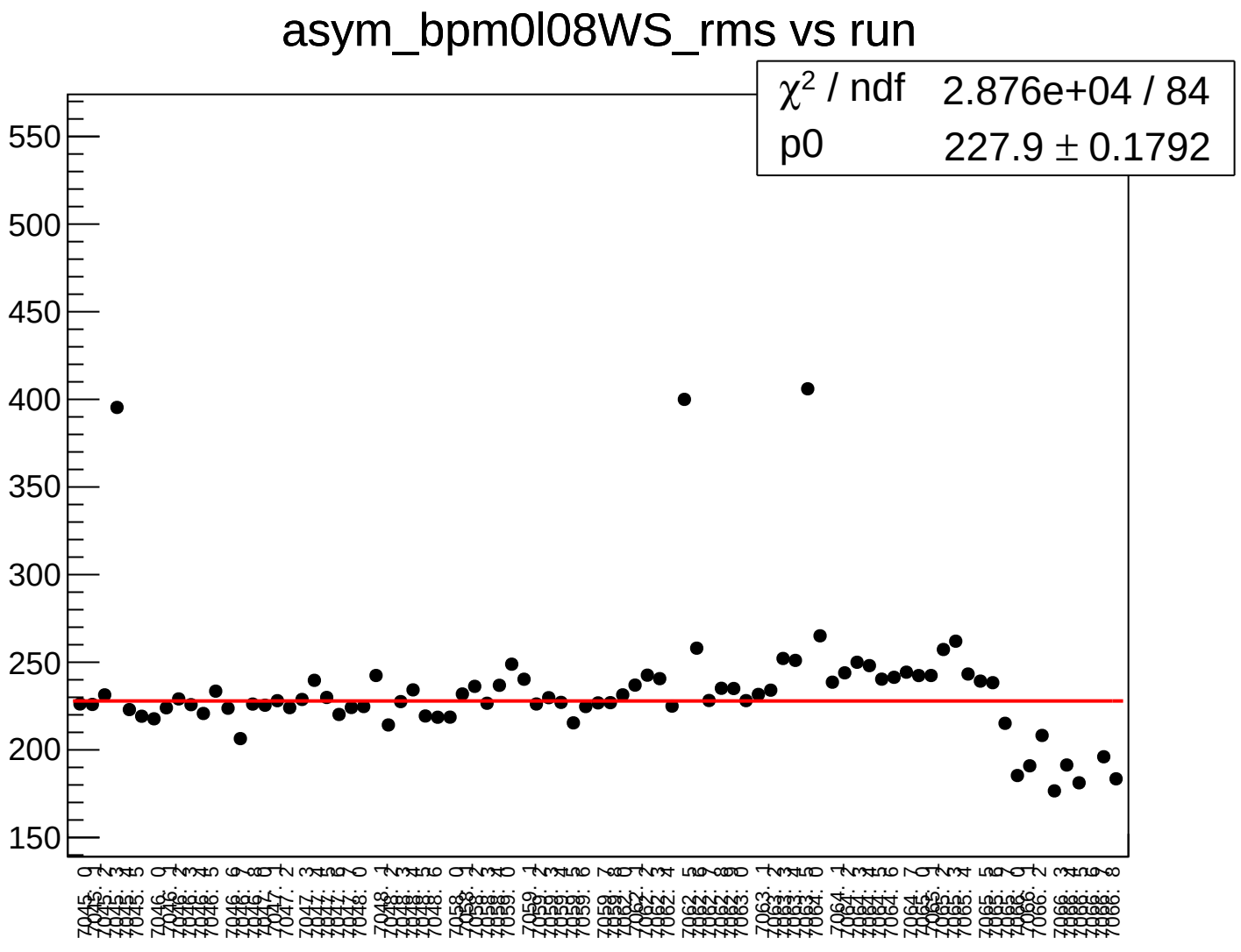

asym_bpm0l07WS_mean vs run
χ² / ndf 98.16 / 84
p0 1155 ± 254.6
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −205.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

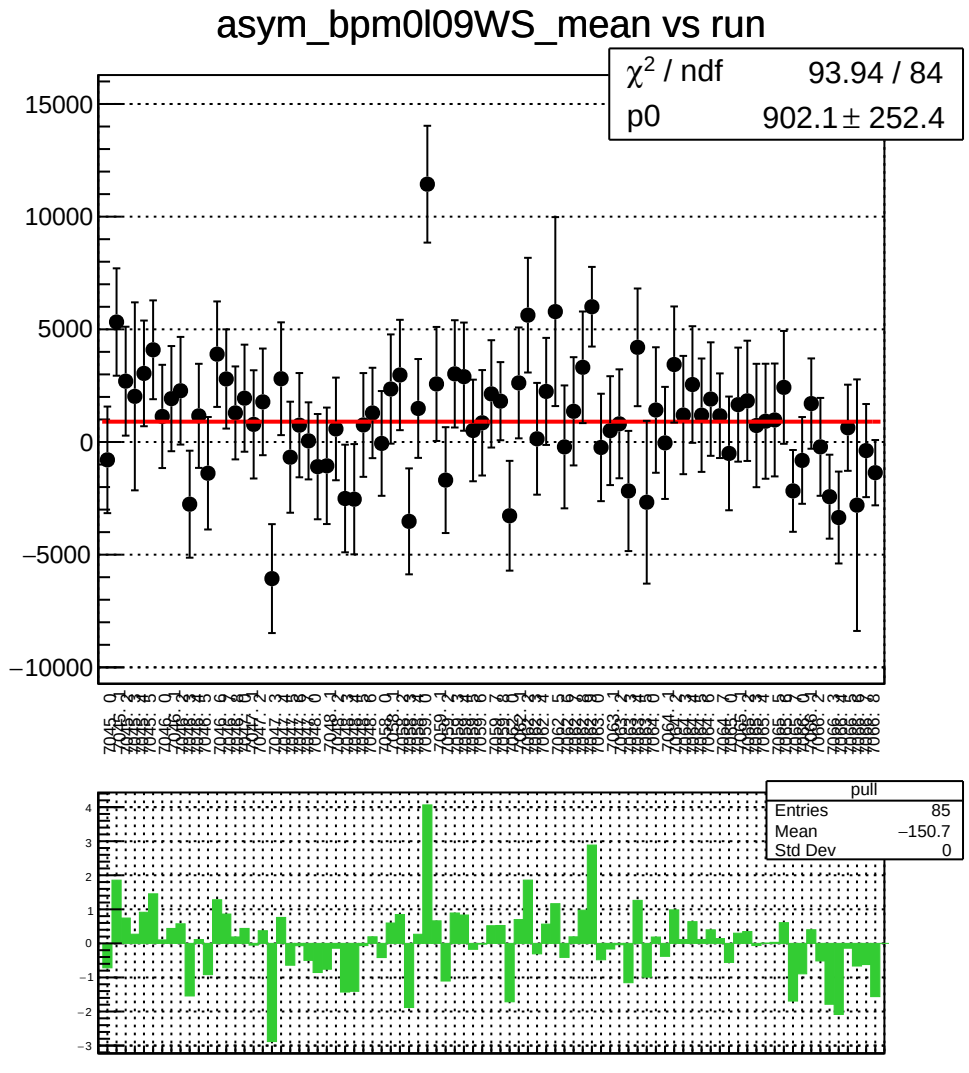

pull1D
Entries 85
Mean 0.0222
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

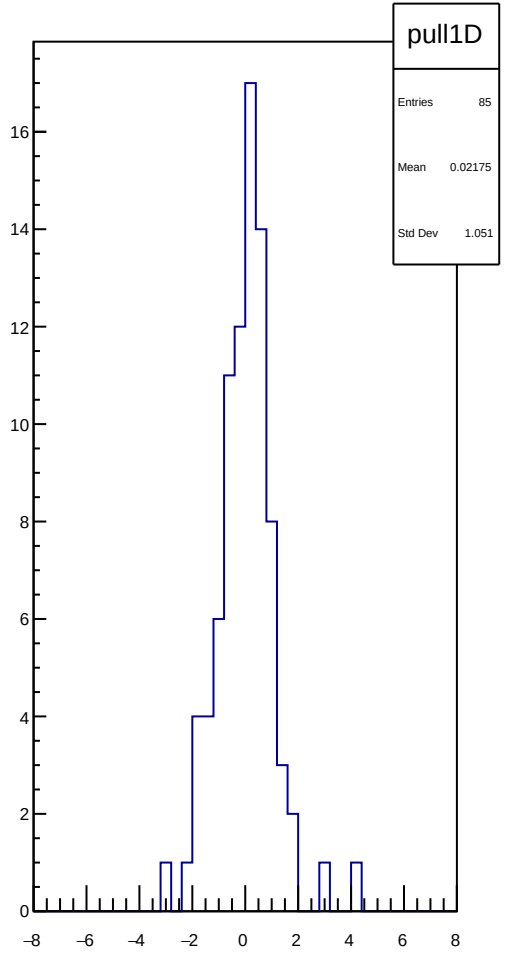

asym_bpm0l07WS_rms vs run
χ² / ndf 2.82e+04 / 84
p0 229 ± 0.18
550
500
450
400
350
300
250
200
150

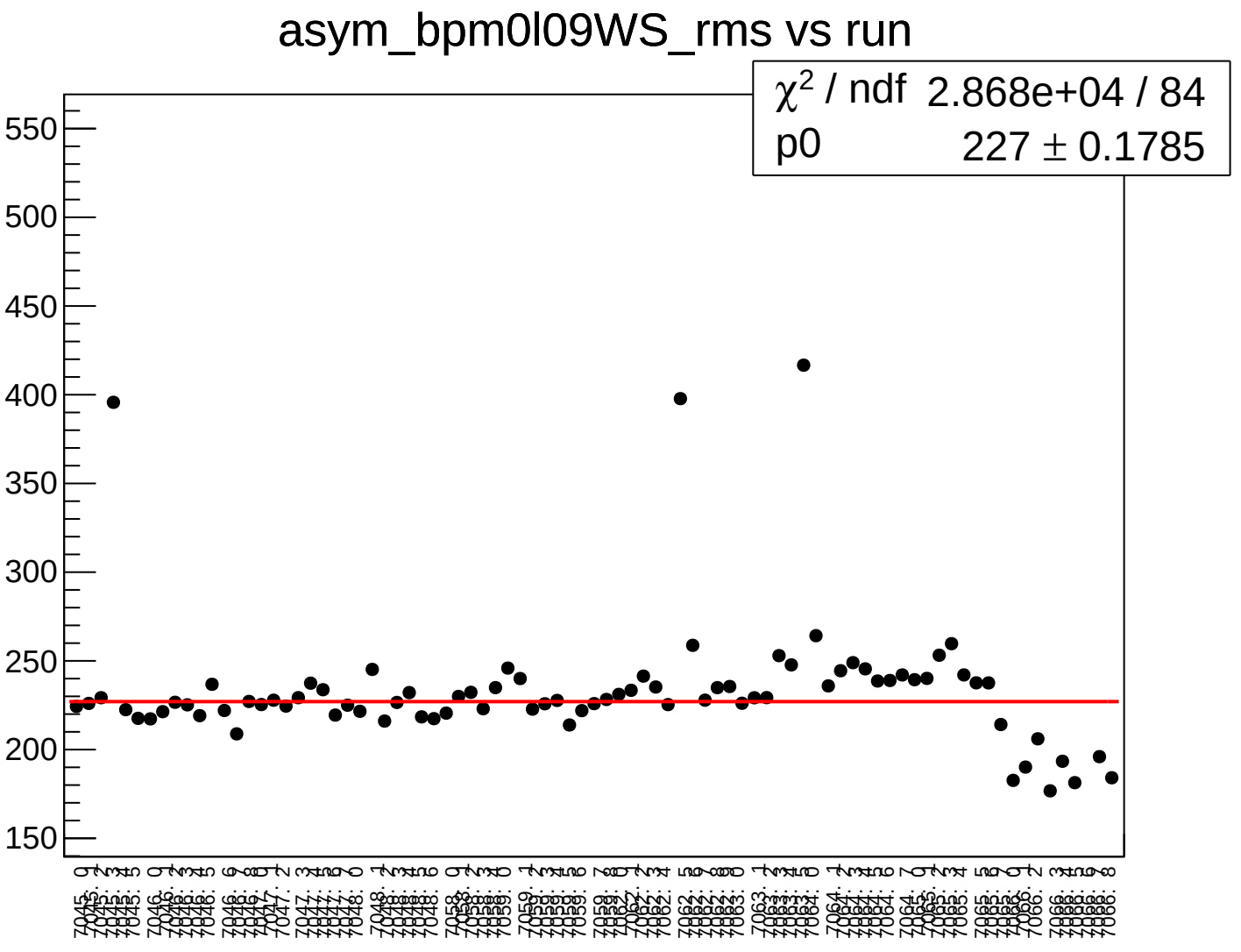

asym_bpm0l08WS_mean vs run
χ² / ndf 100.4 / 84
p0 1054 ± 253.4
15000
10000
5000
0
−5000
pull
Entries 85
Mean −153.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

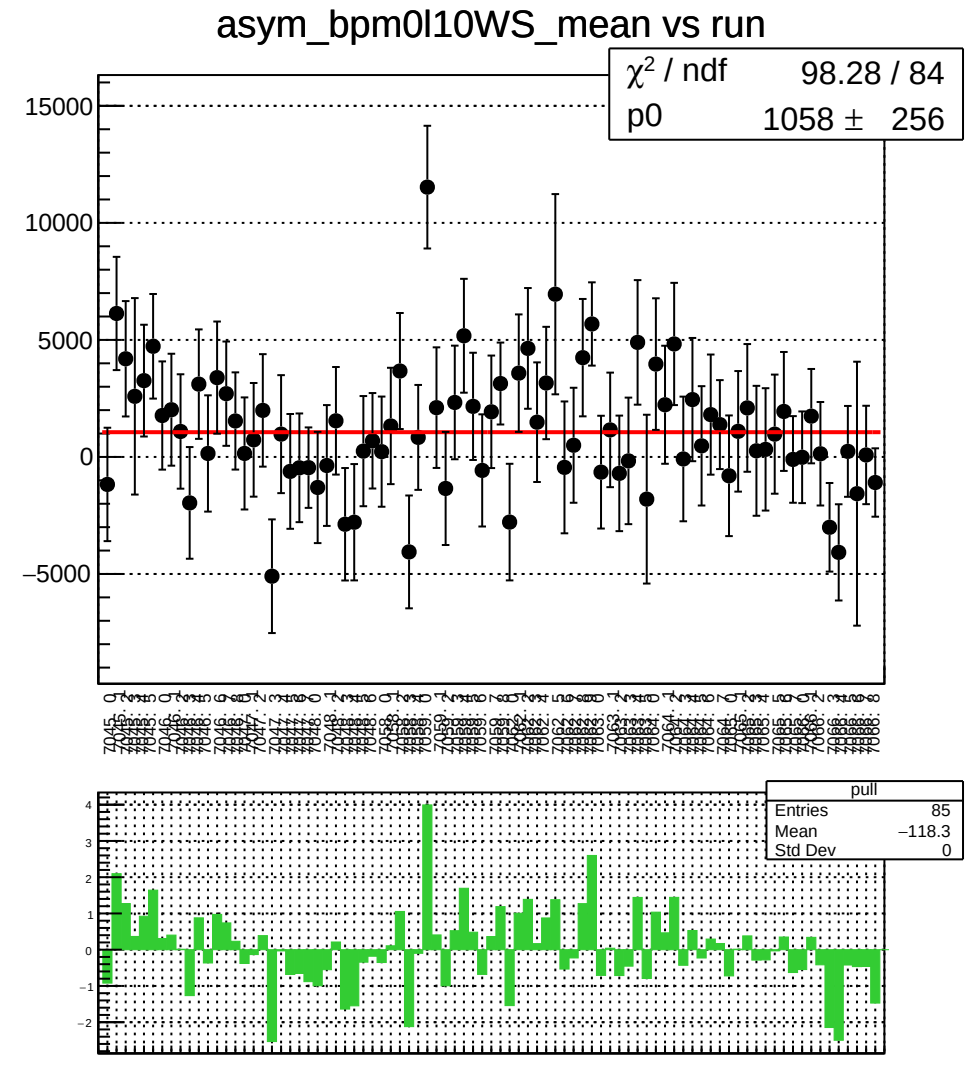

pull1D
Entries 85
Mean 0.02873
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

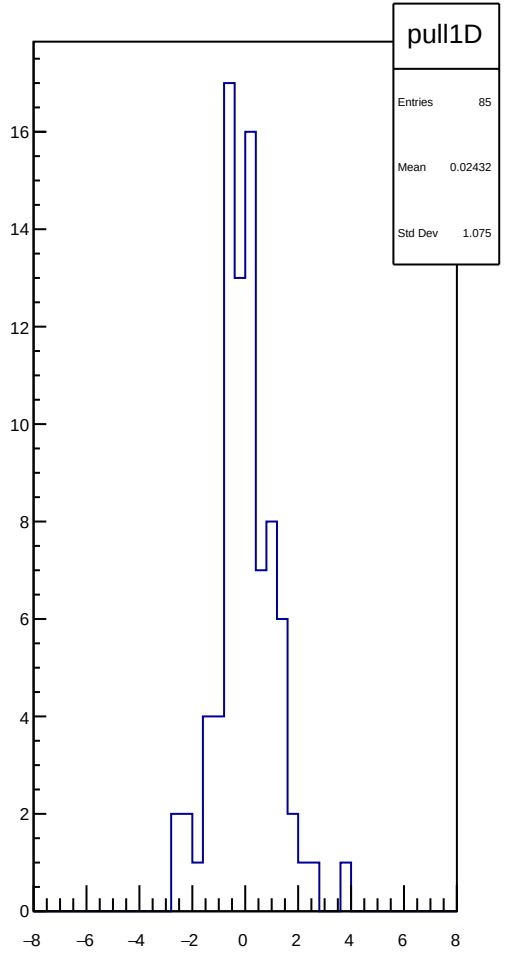

asym_bpm0l08WS_rms vs run
χ² / ndf 2.876e+04 / 84
p0 227.9 ± 0.1792
550
500
450
400
350
300
250
200
150

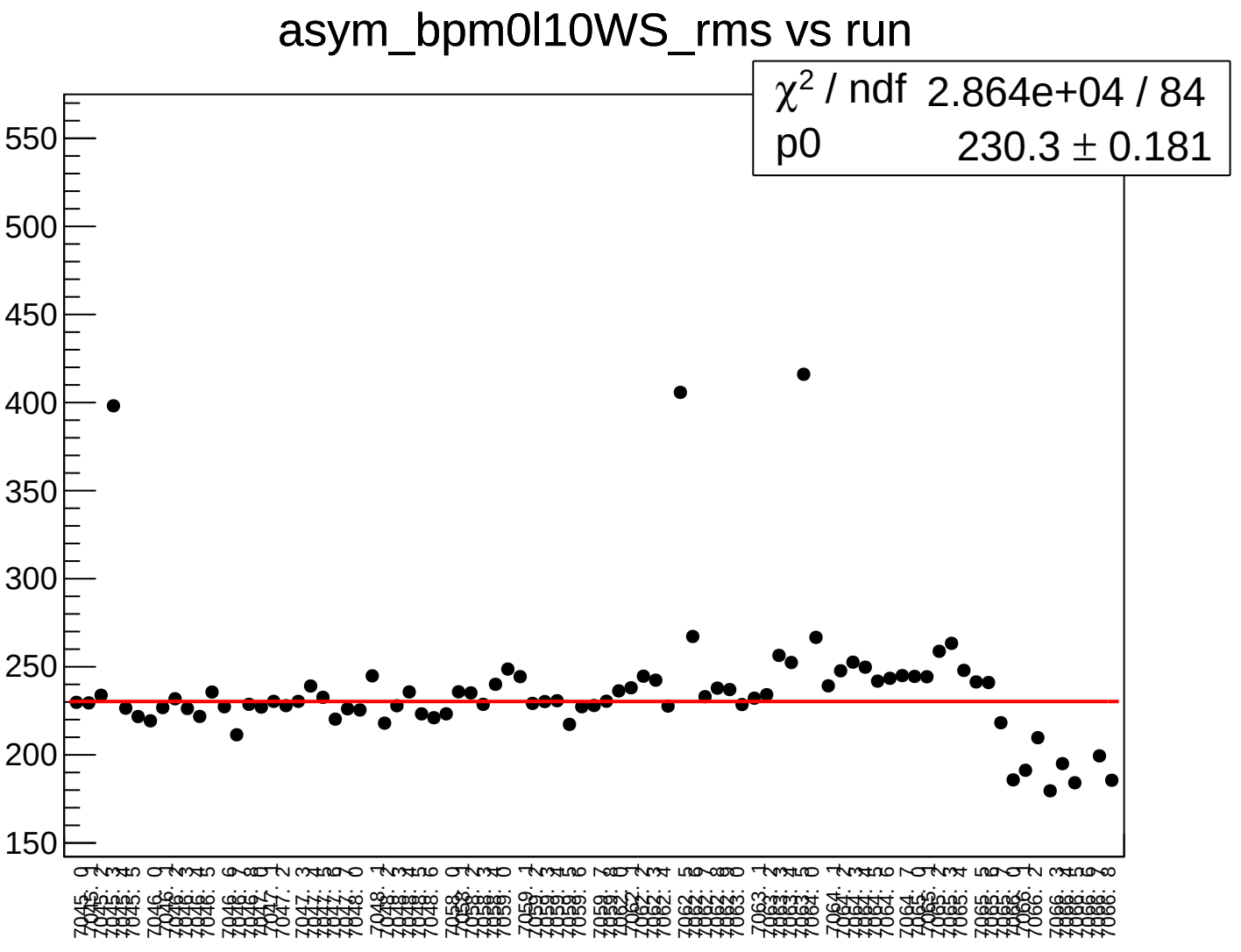

asym_bpm0l09WS_mean vs run
χ² / ndf 93.94 / 84
p0 902.1 ± 252.4
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −150.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

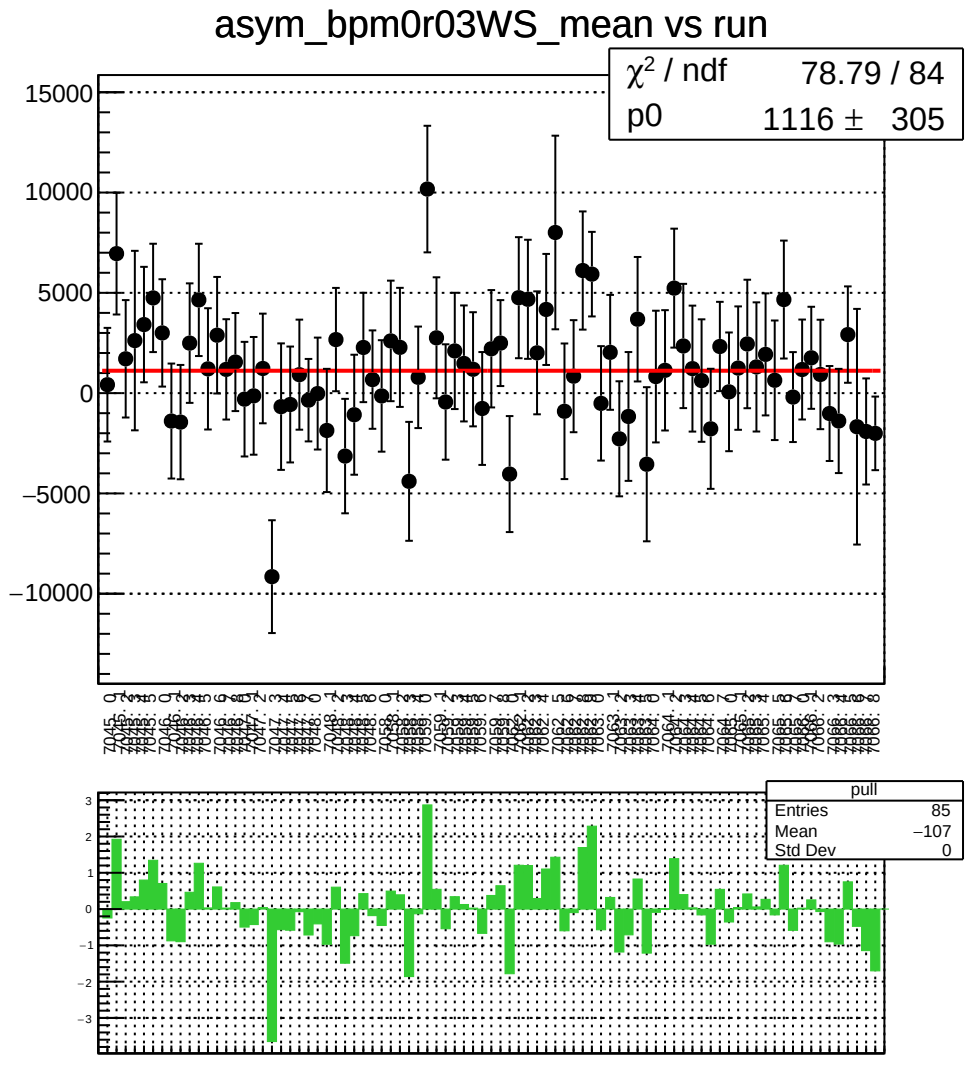

pull1D
Entries 85
Mean 0.02175
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

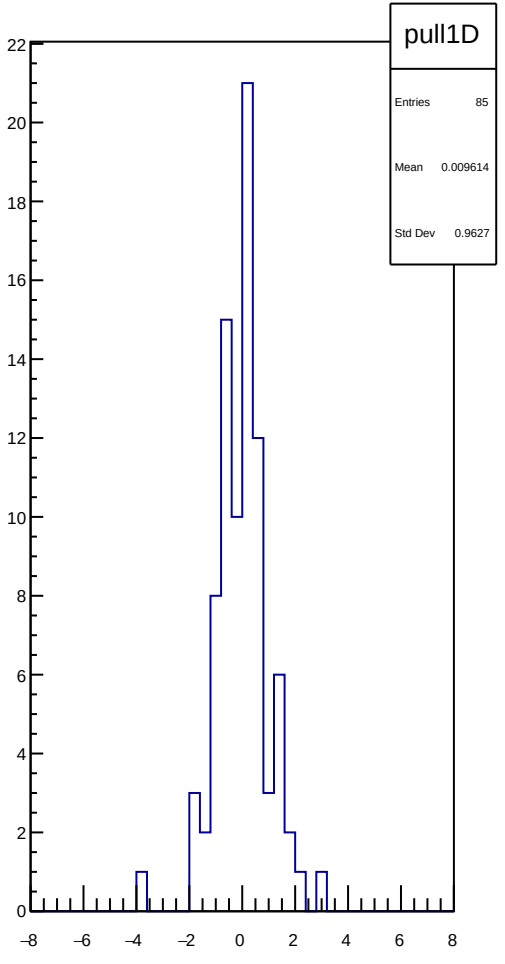

asym_bpm0l09WS_rms vs run
χ^2 / ndf 2.868e+04 / 84
p0 227 ± 0.1785
550
500
450
400
350
300
250
200
150

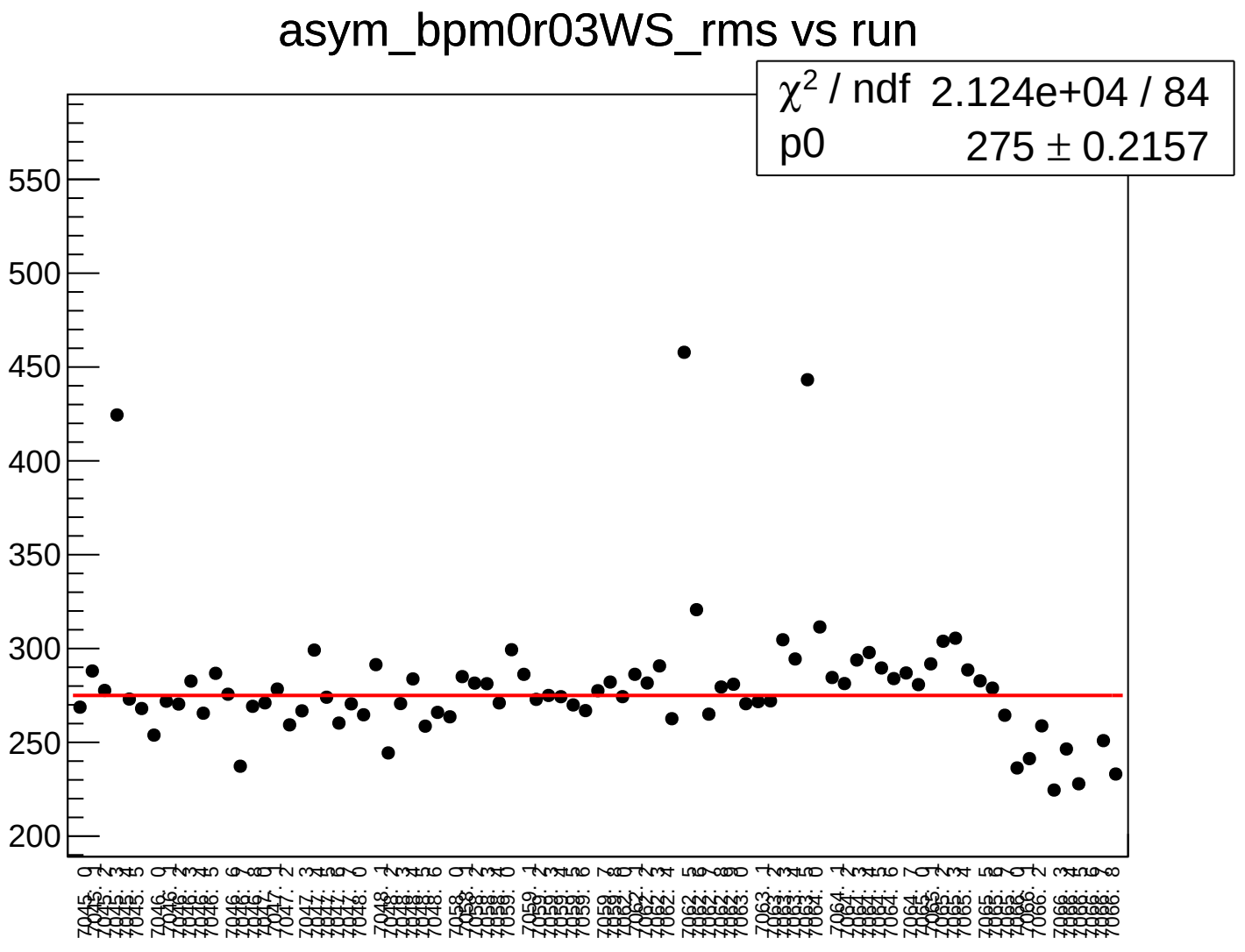

asym_bpm0l10WS_mean vs run
χ² / ndf 98.28 / 84
p0 1058 ± 256
15000
10000
5000
0
−5000
pull
Entries 85
Mean −118.3
Std Dev 0
4
3
2
1
0
−1
−2

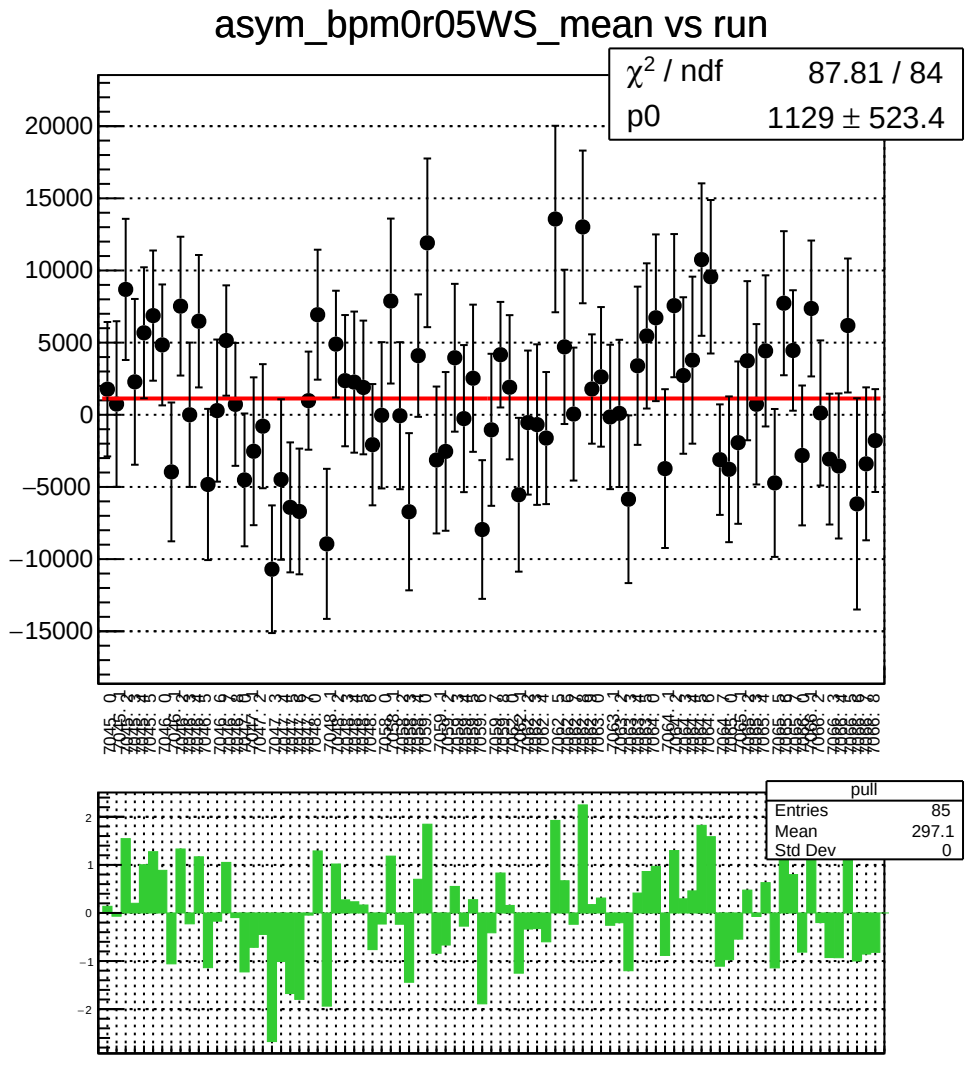

pull1D
Entries 85
Mean 0.02432
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

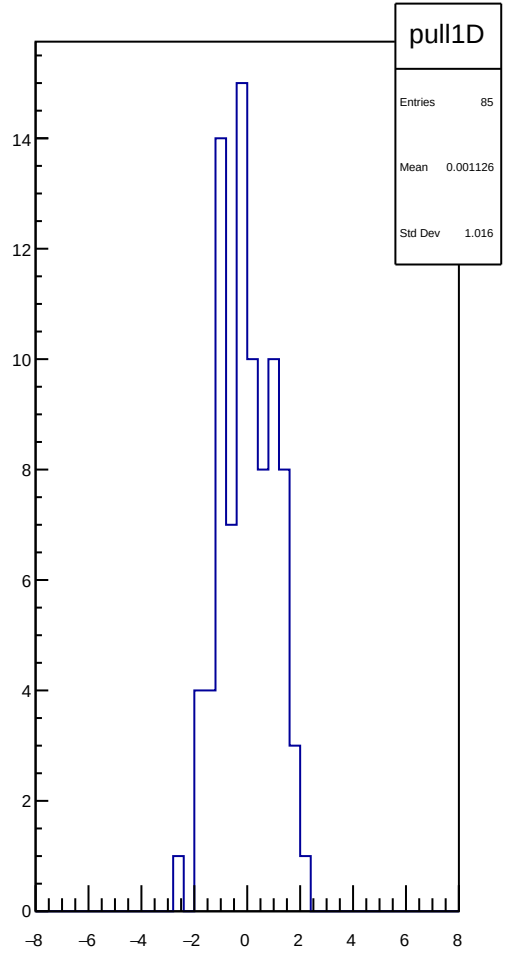

asym_bpm0l10WS_rms vs run
χ^2 / ndf 2.864e+04 / 84
p0 230.3 ± 0.181
550
500
450
400
350
300
250
200
150

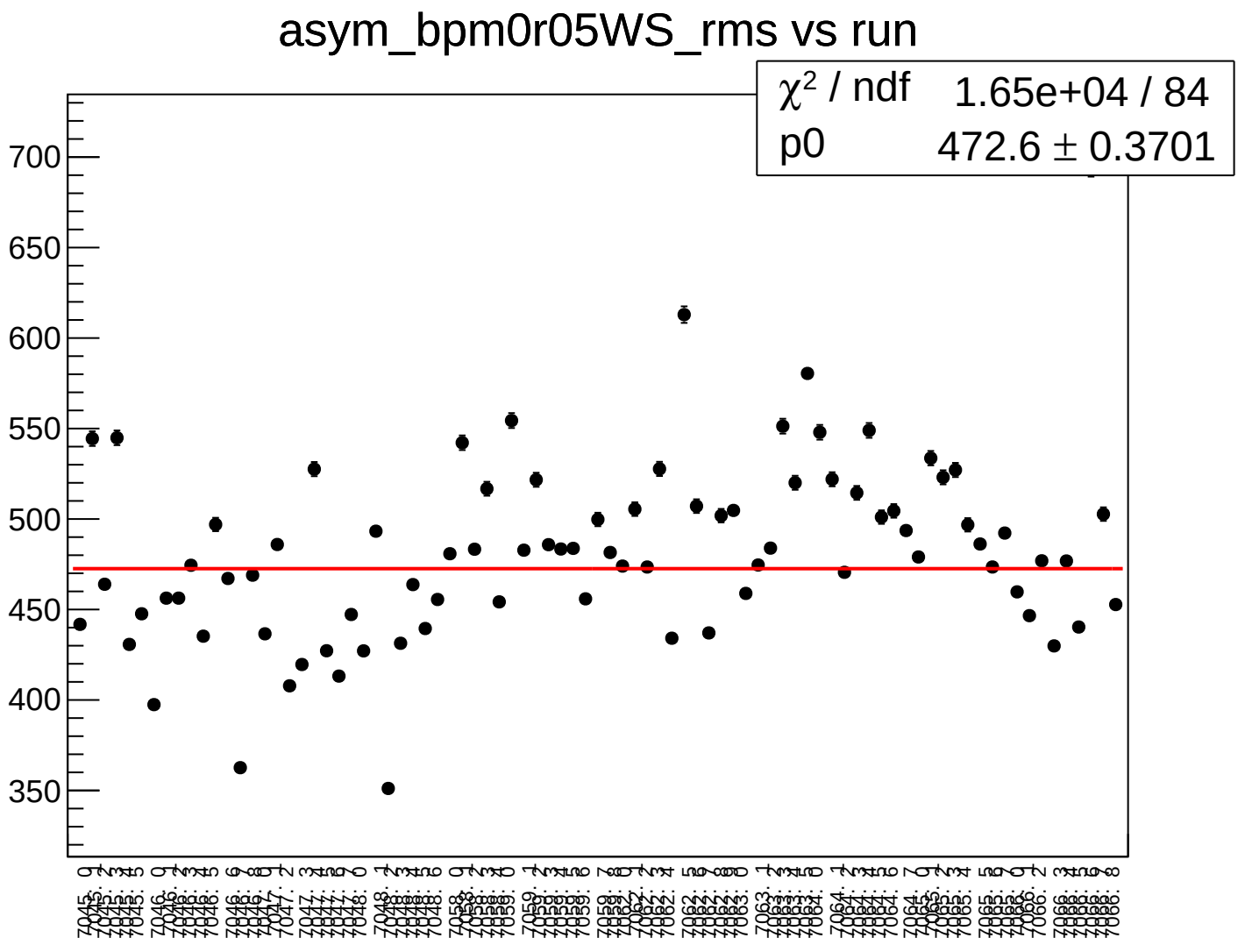

asym_bpm0r03WS_mean vs run
χ² / ndf 78.79 / 84
p0 1116 ± 305
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −107
Std Dev 0
3
2
1
0
−1
−2
−3

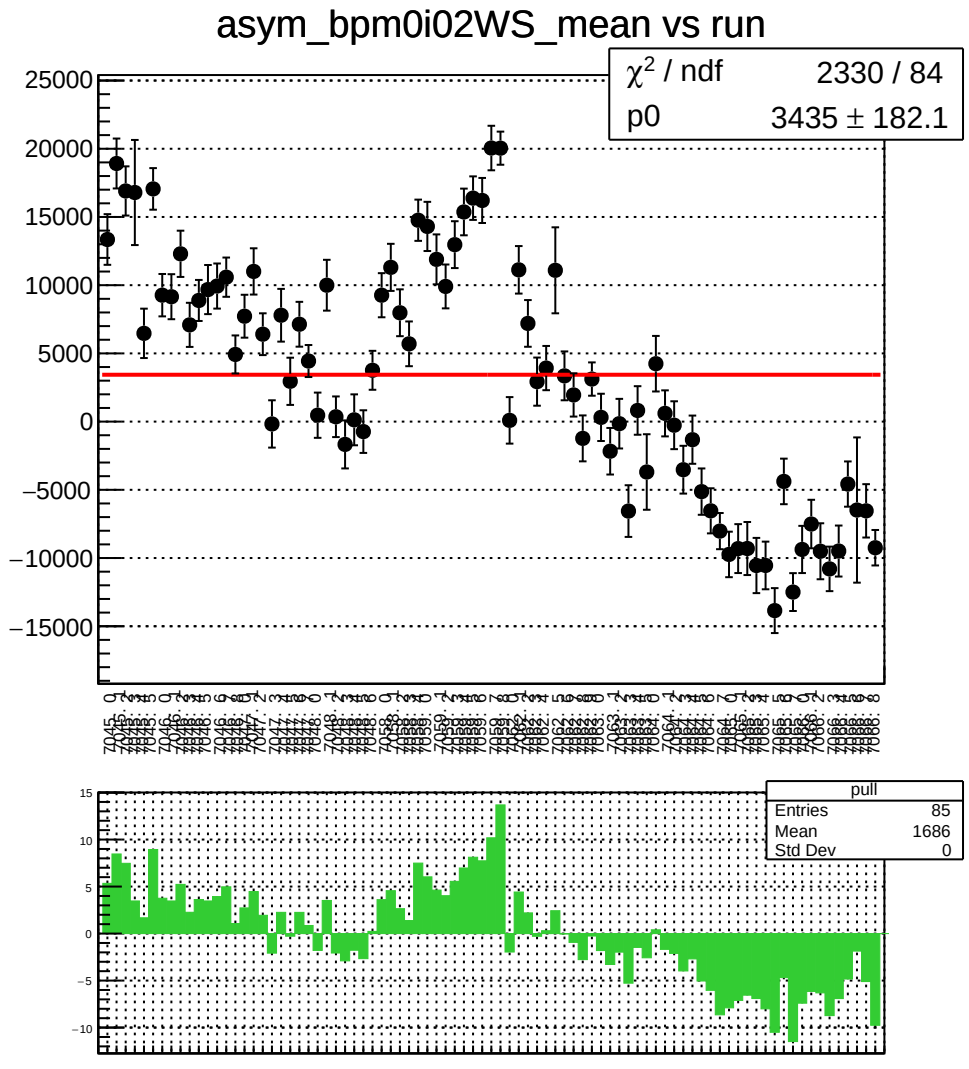

pull1D
Entries 85
Mean 0.009614
Std Dev 0.9627
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

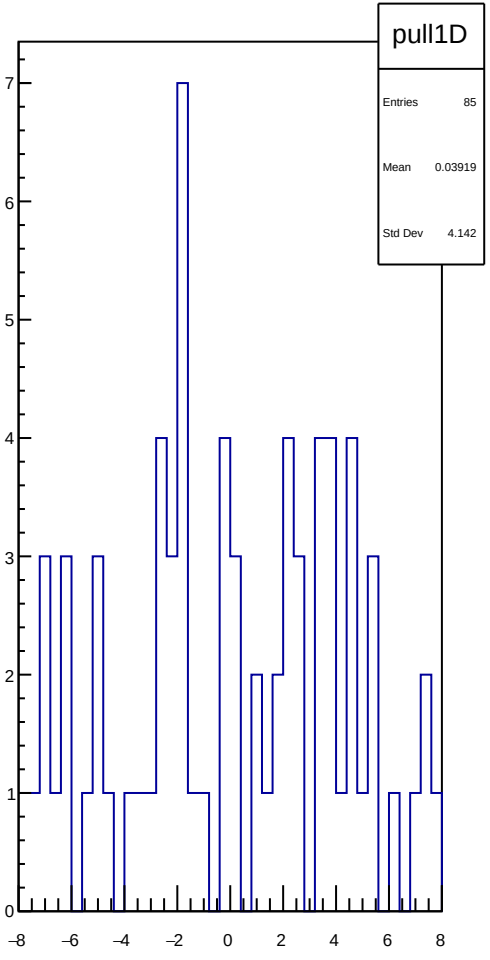

asym_bpm0r03WS_rms vs run
χ^2 / ndf 2.124e+04 / 84
p0 275 ± 0.2157
550
500
450
400
350
300
250
200

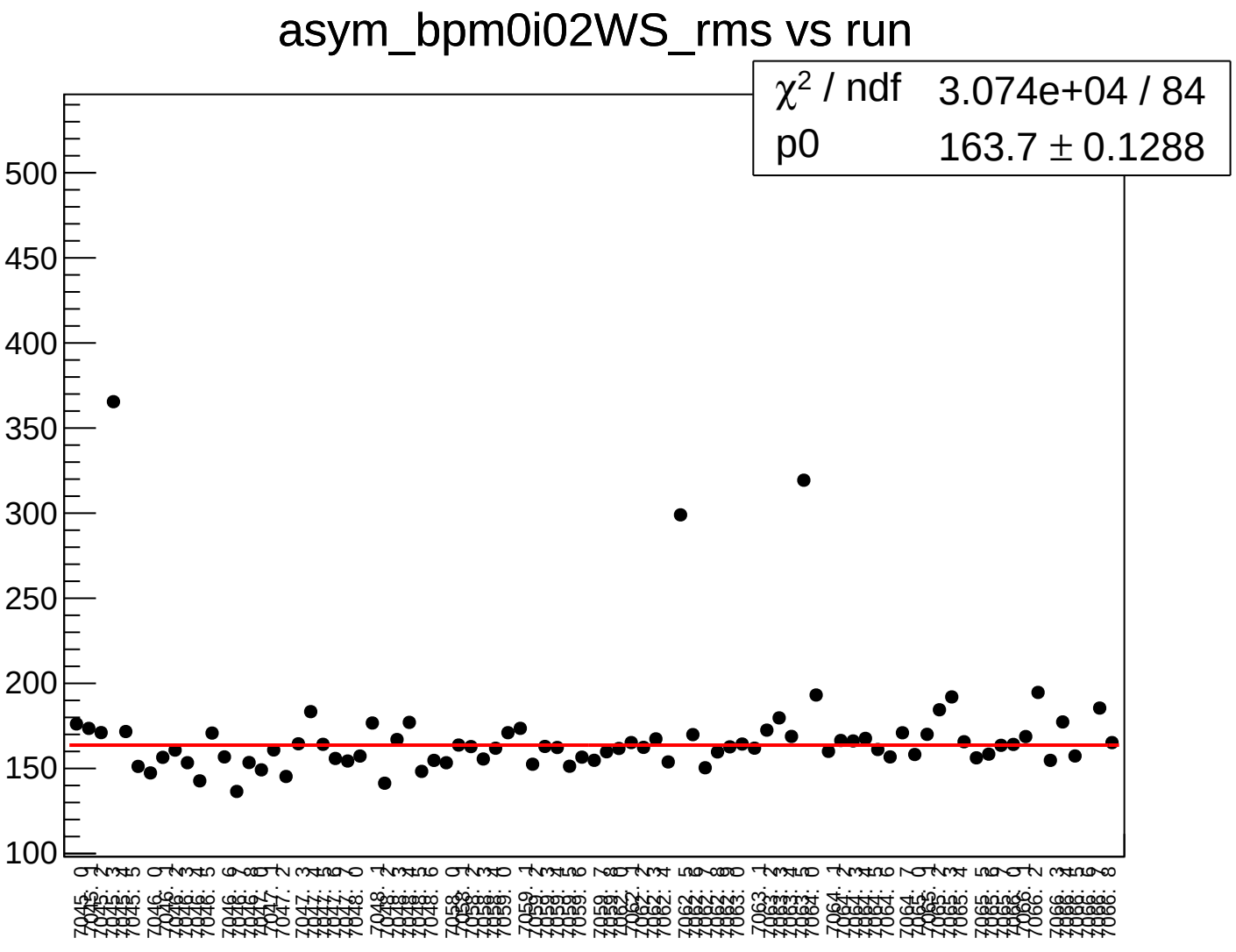

asym_bpm0r05WS_mean vs run
χ² / ndf 87.81 / 84
p0 1129 ± 523.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 297.1
Std Dev 0
2
1
0
−1
−2

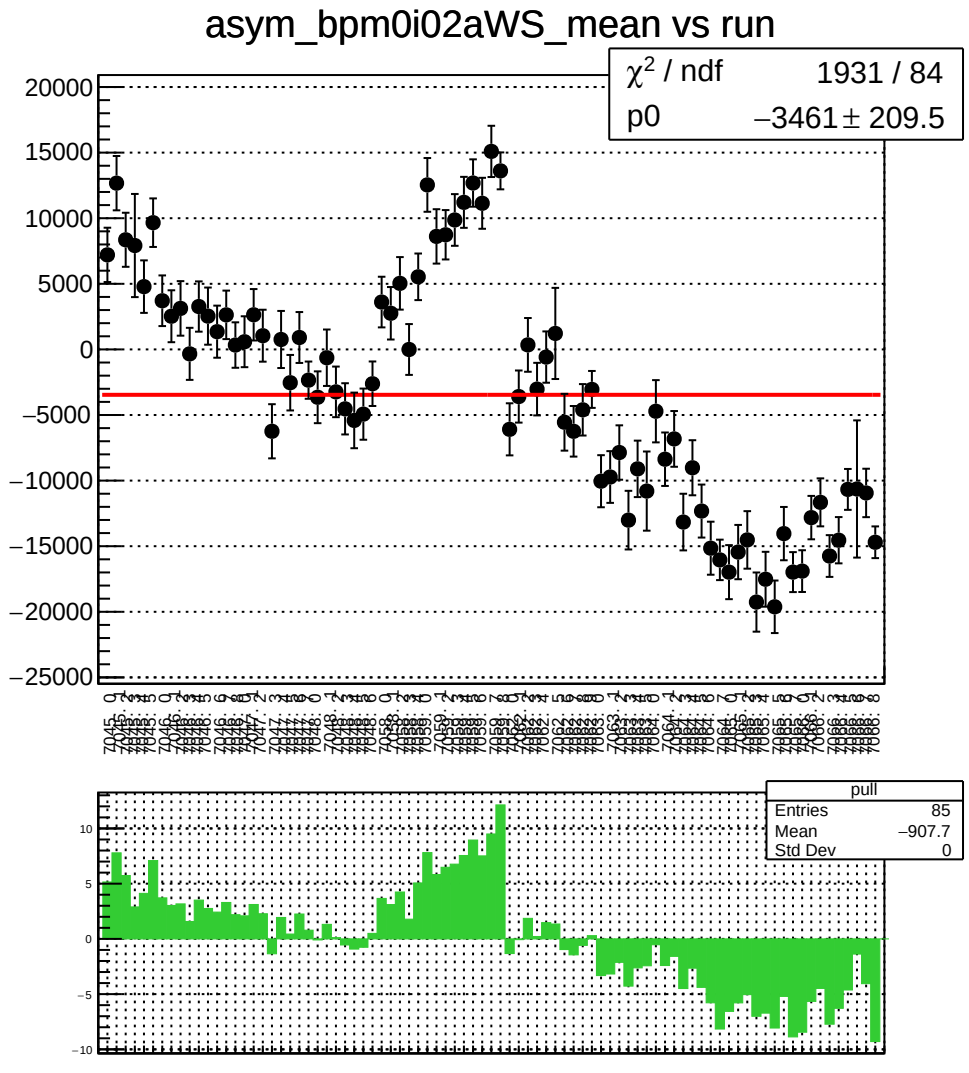

pull1D
Entries 85
Mean 0.001126
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

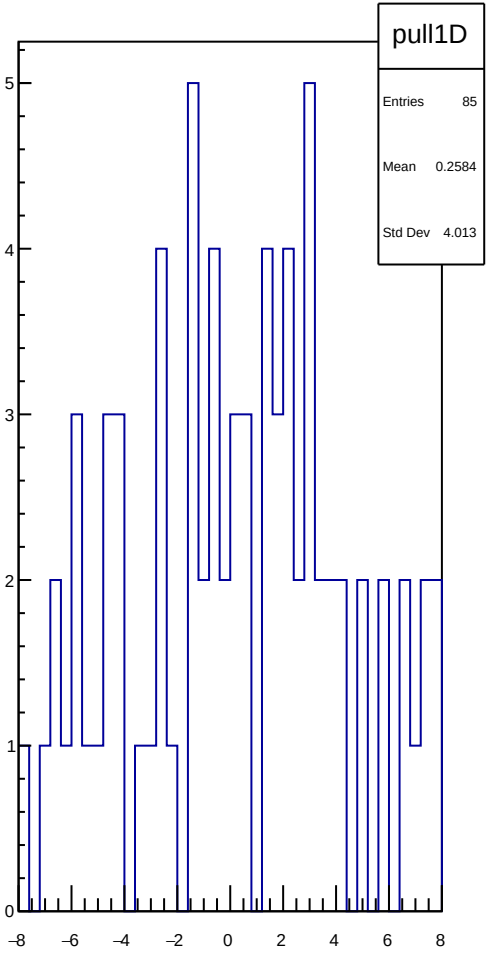

asym_bpm0r05WS_rms vs run
χ² / ndf 1.65e+04 / 84
p0 472.6 ± 0.3701
700
650
600
550
500
450
400
350

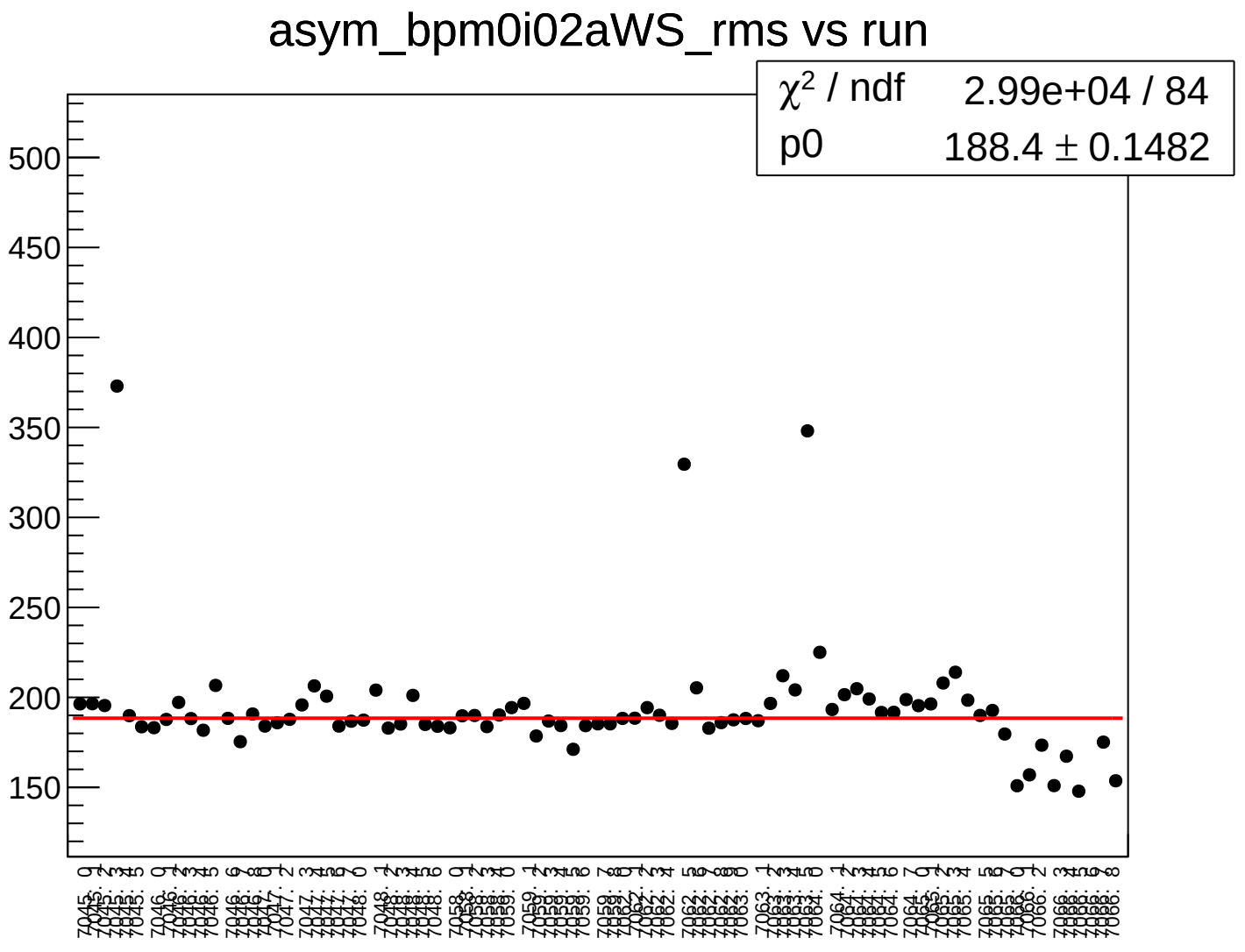

asym_bpm0i02WS_mean vs run
χ² / ndf 2330 / 84
p0 3435 ± 182.1
pull
Entries 85
Mean 1686
Std Dev 0

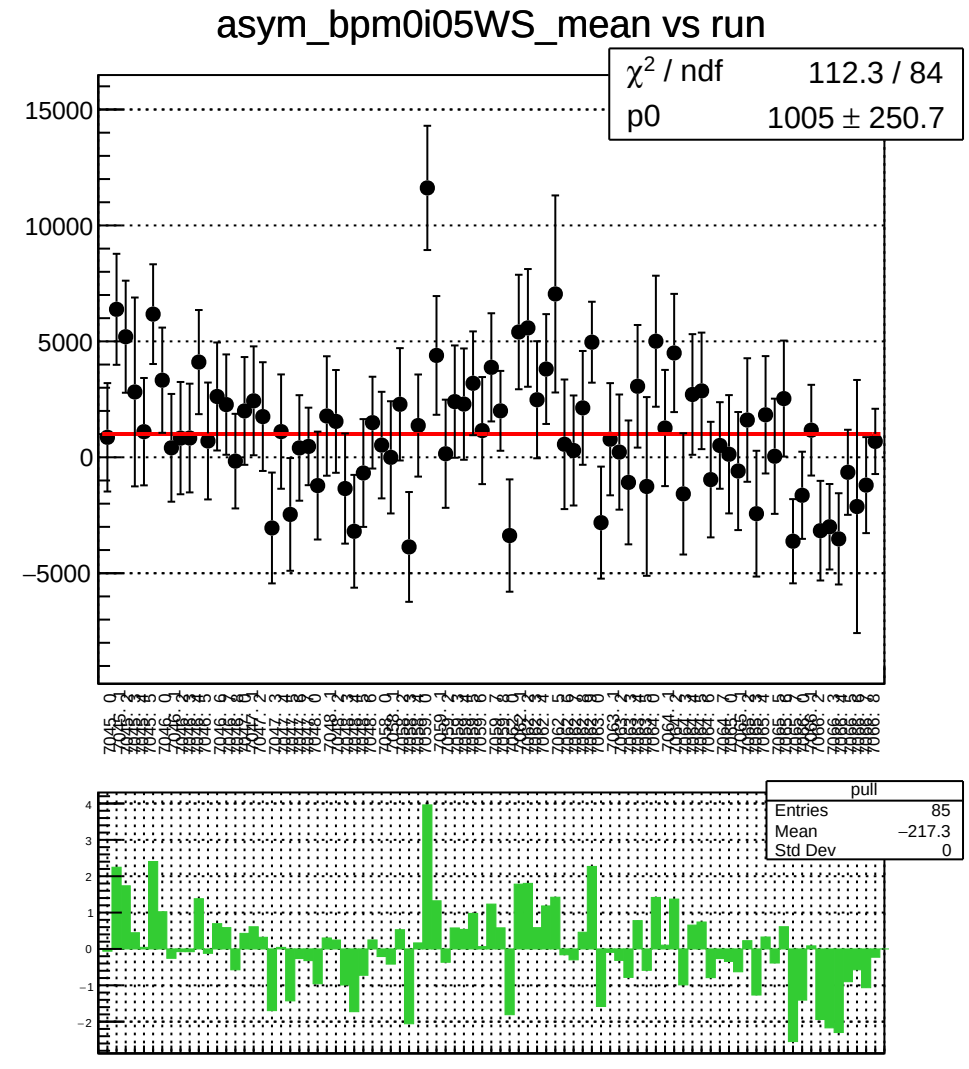

pull1D
Entries 85
Mean 0.03919
Std Dev 4.142

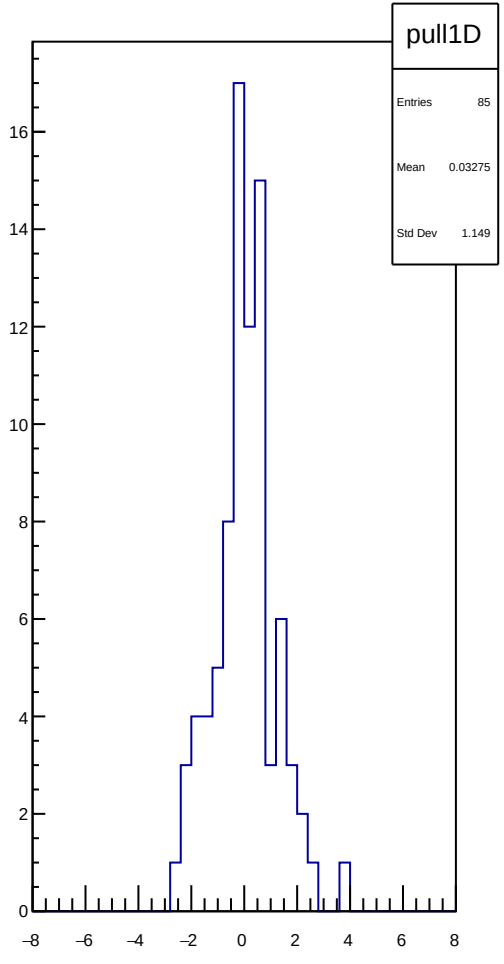

asym_bpm0i02WS_rms vs run
χ² / ndf 3.074e+04 / 84
p0 163.7 ± 0.1288
500
450
400
350
300
250
200
150
100

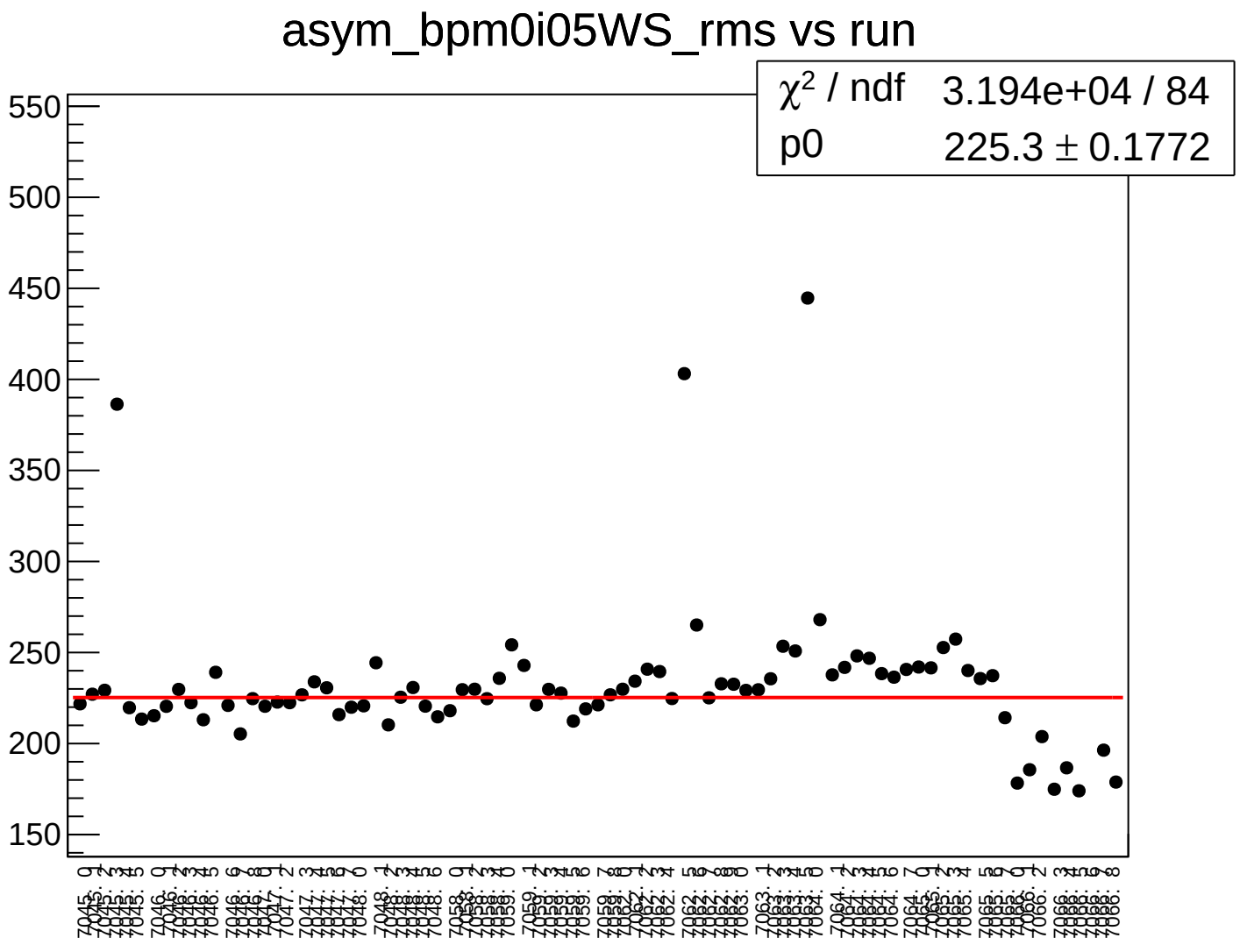

asym_bpm0i02aWS_mean vs run
χ² / ndf 1931 / 84
p0 −3461 ± 209.5
pull
Entries 85
Mean −907.7
Std Dev 0

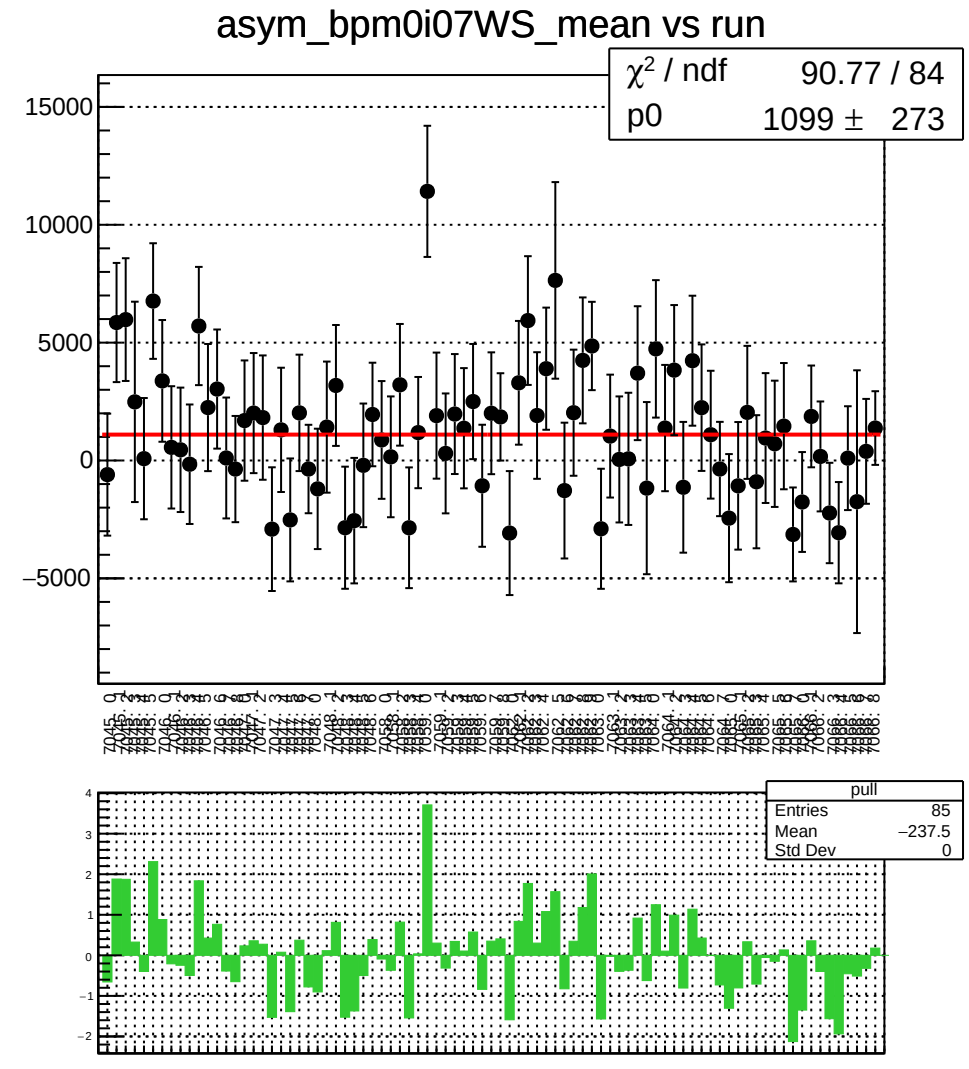

pull1D
Entries 85
Mean 0.2584
Std Dev 4.013

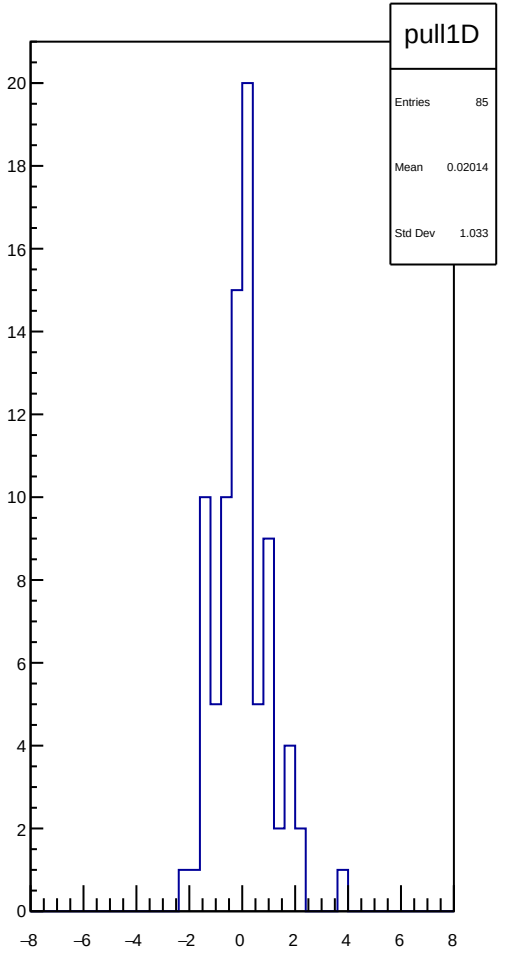

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.99e+04 / 84
p0 188.4 ± 0.1482
500
450
400
350
300
250
200
150

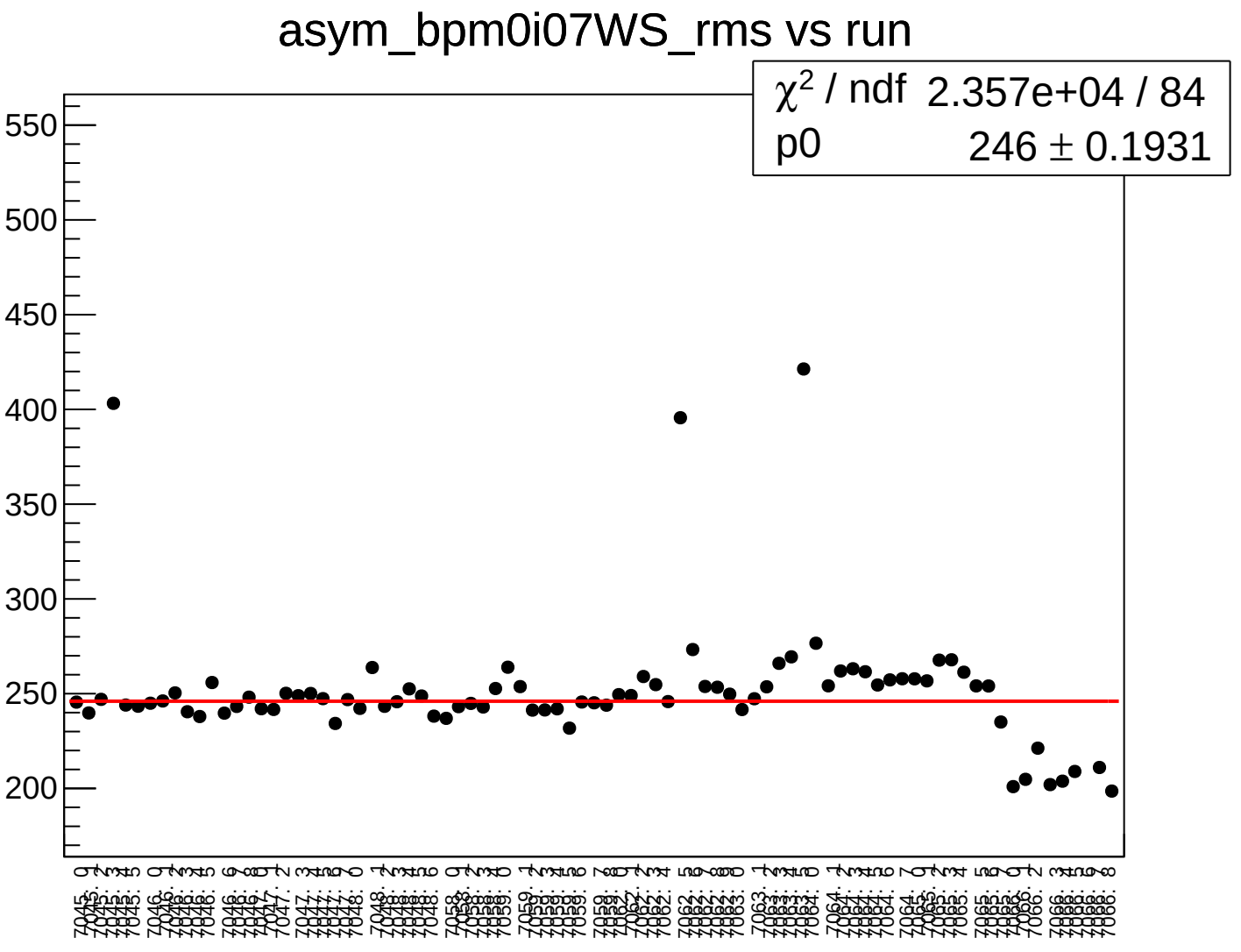

asym_bpm0i05WS_mean vs run
χ² / ndf 112.3 / 84
p0 1005 ± 250.7
15000
10000
5000
0
−5000
pull
Entries 85
Mean −217.3
Std Dev 0
4
3
2
1
0
−1
−2

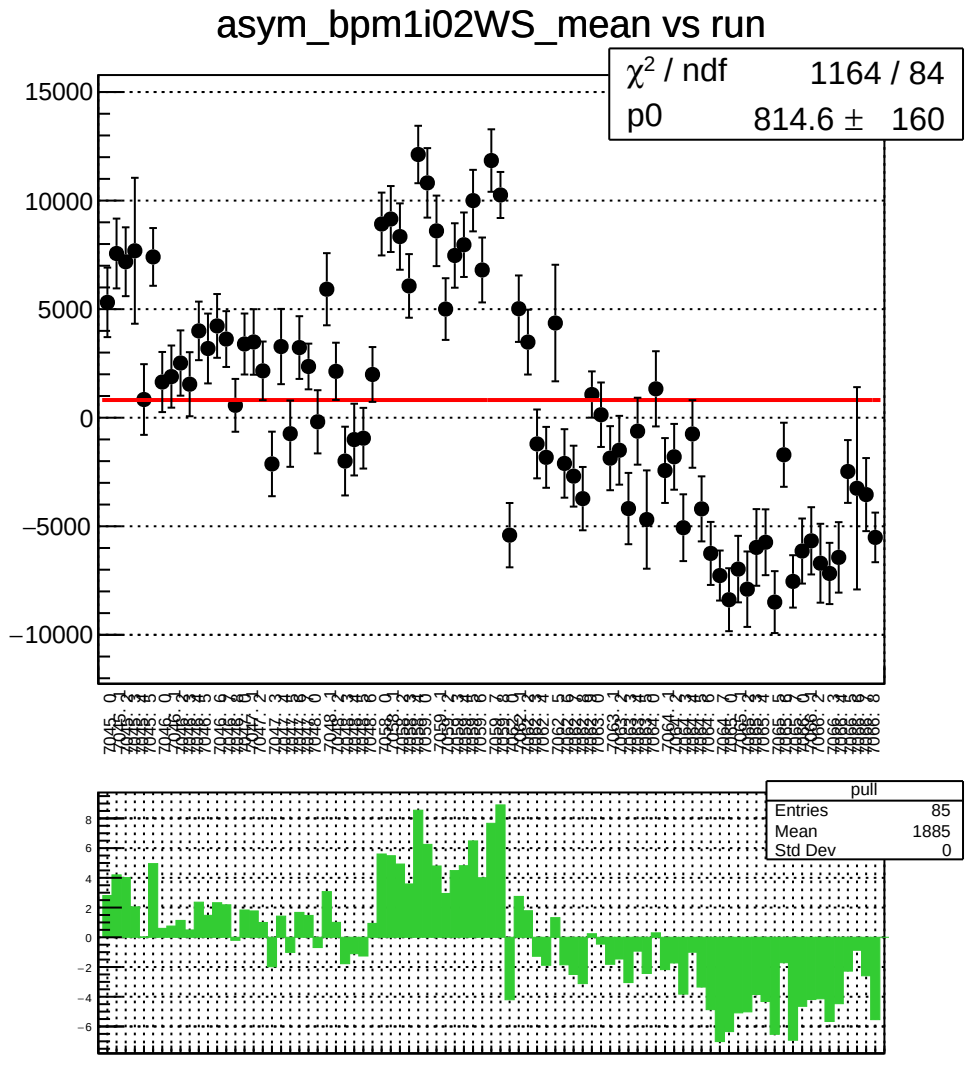

pull1D
Entries 85
Mean 0.03275
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

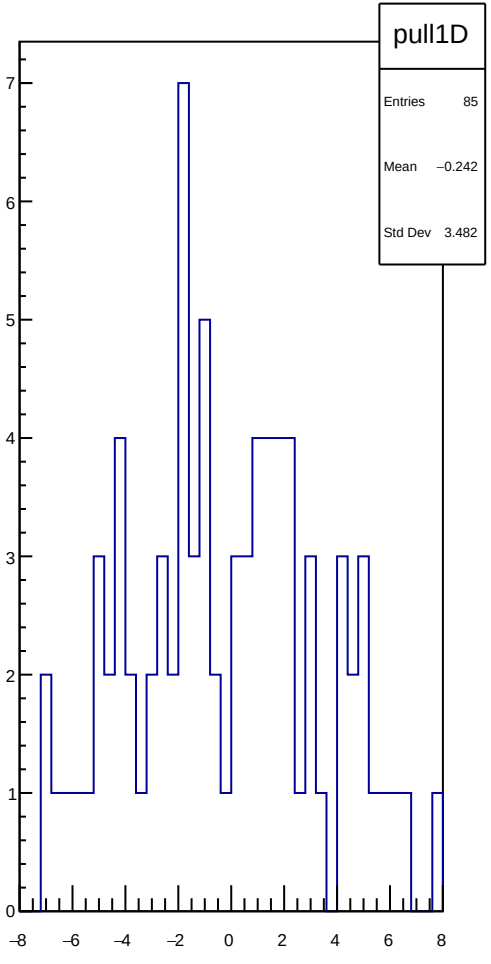

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.194e+04 / 84
p0 225.3 ± 0.1772
550
500
450
400
350
300
250
200
150

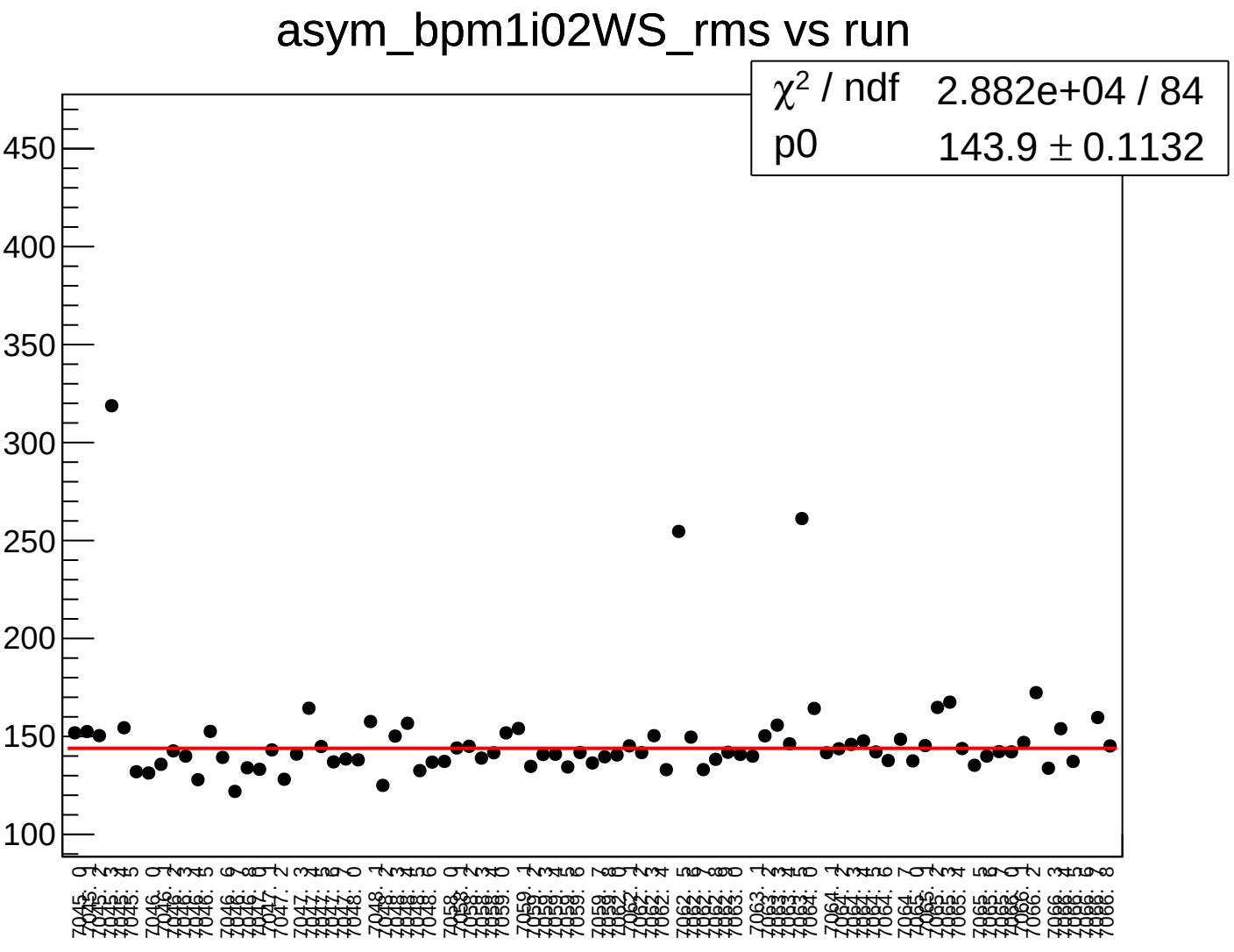

asym_bpm0i07WS_mean vs run
χ² / ndf 90.77 / 84
p0 1099 ± 273
15000
10000
5000
0
−5000
pull
Entries 85
Mean −237.5
Std Dev 0
4
3
2
1
0
−1
−2

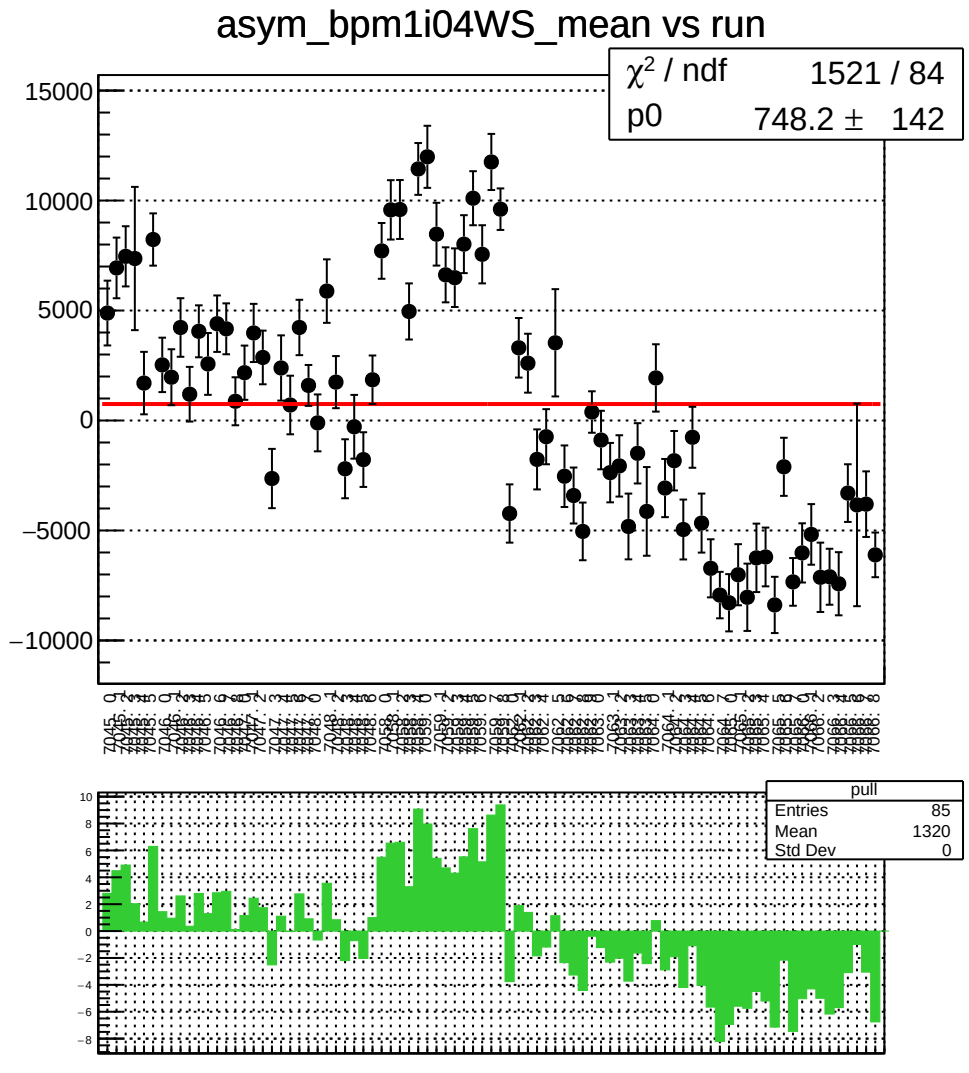

pull1D
Entries 85
Mean 0.02014
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

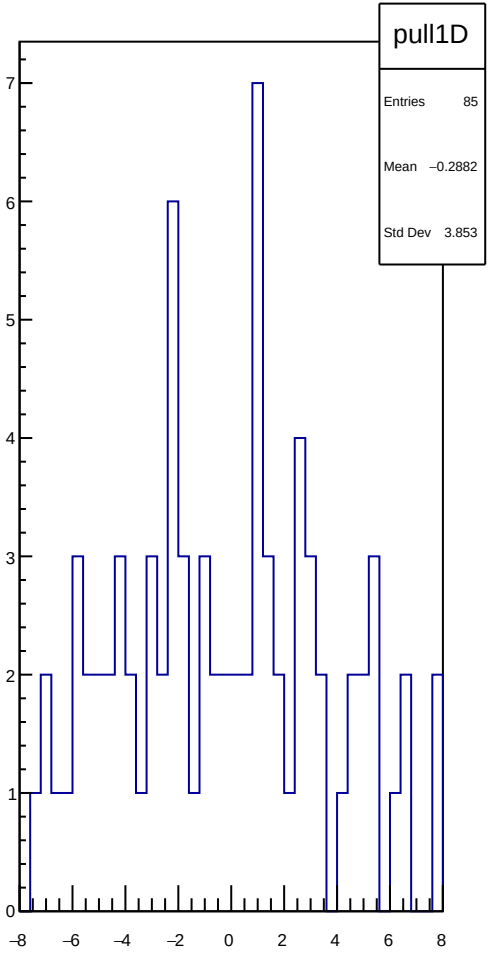

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.357e+04 / 84
p0 246 ± 0.1931
550
500
450
400
350
300
250
200

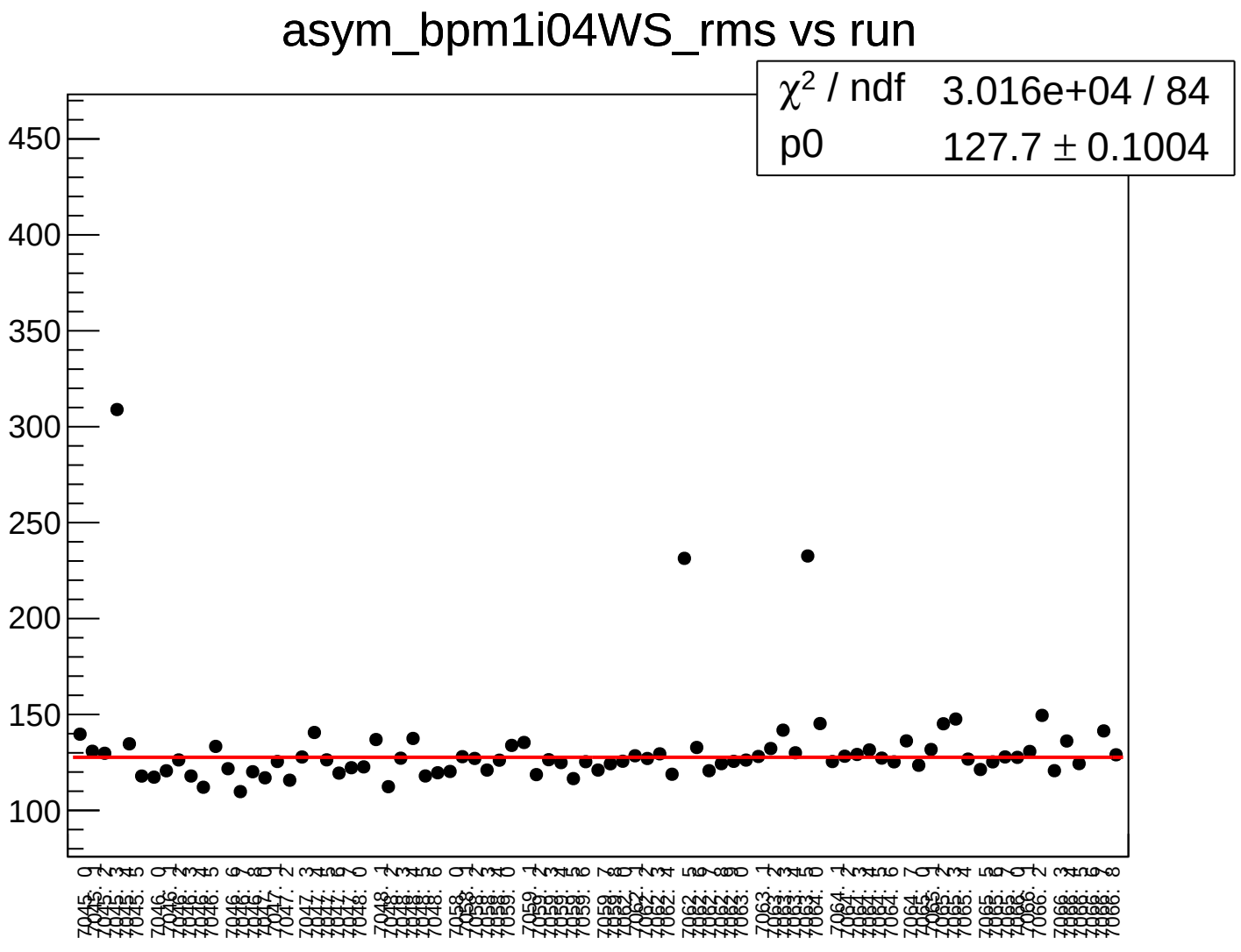

asym_bpm1i02WS_mean vs run
χ² / ndf 1164 / 84
p0 814.6 ± 160
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1885
Std Dev 0
8
6
4
2
0
−2
−4
−6

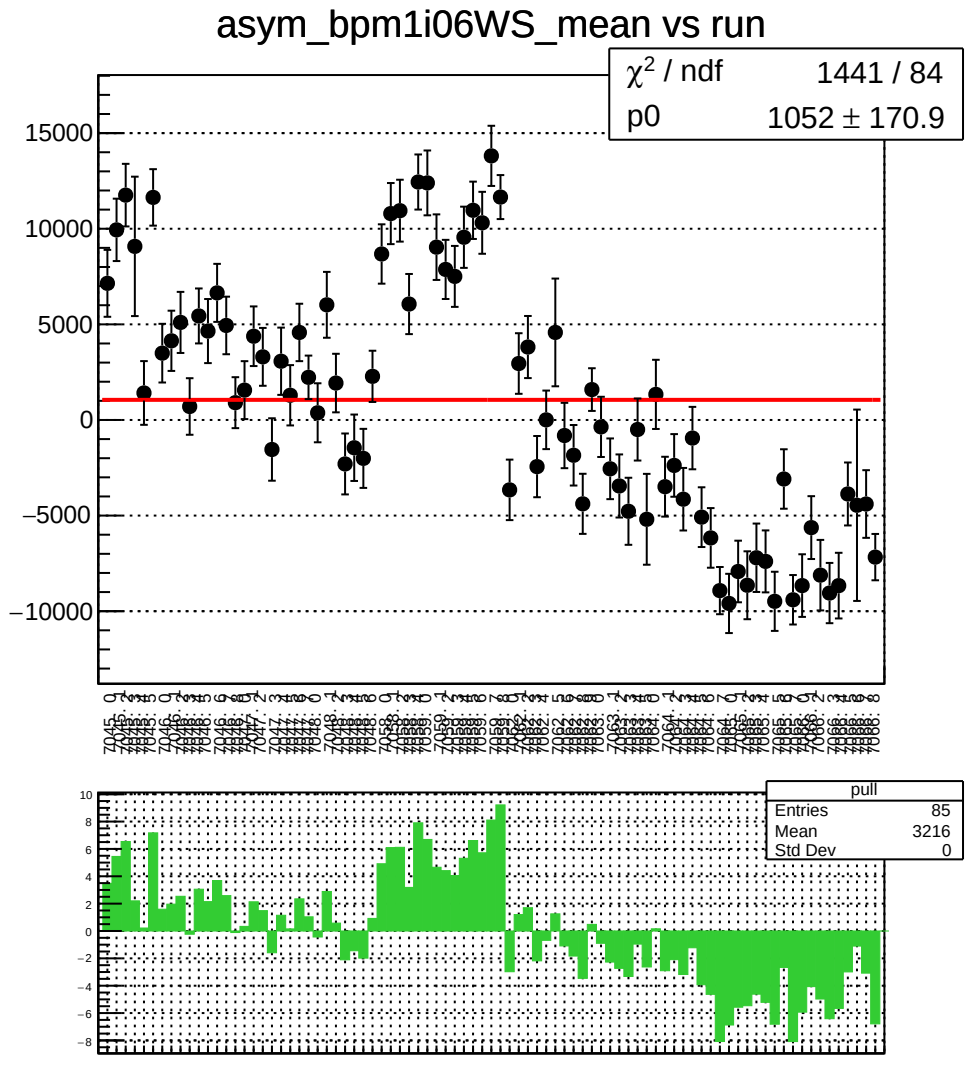

pull1D
Entries 85
Mean −0.242
Std Dev 3.482
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

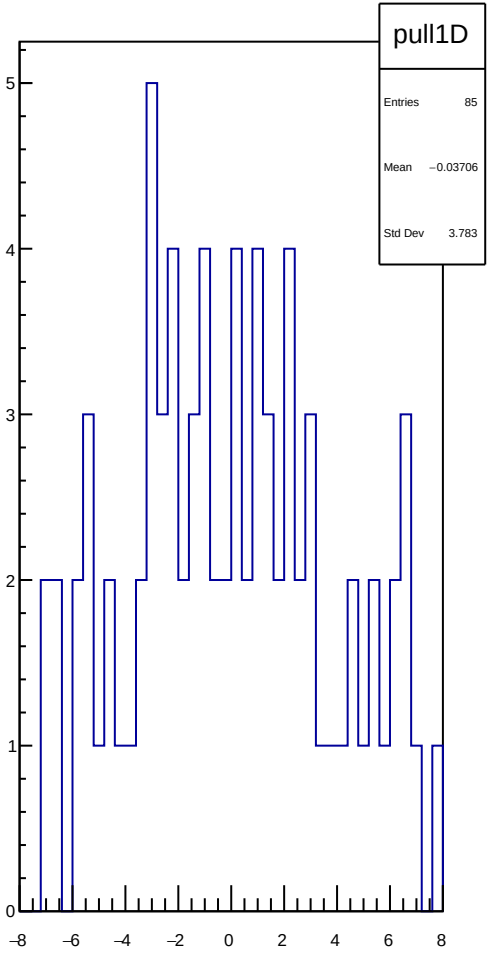

asym_bpm1i02WS_rms vs run
χ² / ndf 2.882e+04 / 84
p0 143.9 ± 0.1132
450
400
350
300
250
200
150
100

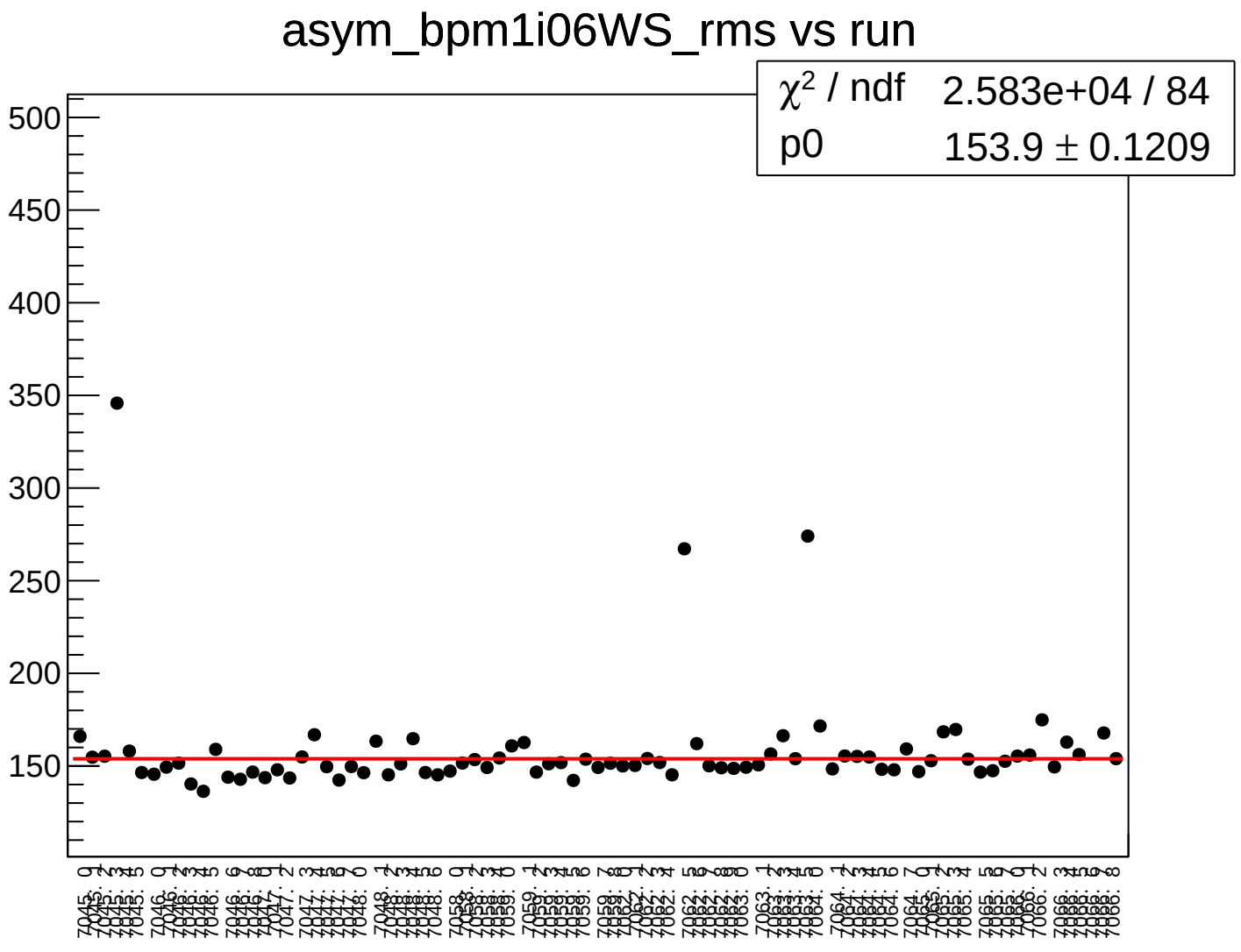

asym_bpm1i04WS_mean vs run
χ² / ndf 1521 / 84
p0 748.2 ± 142
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1320
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

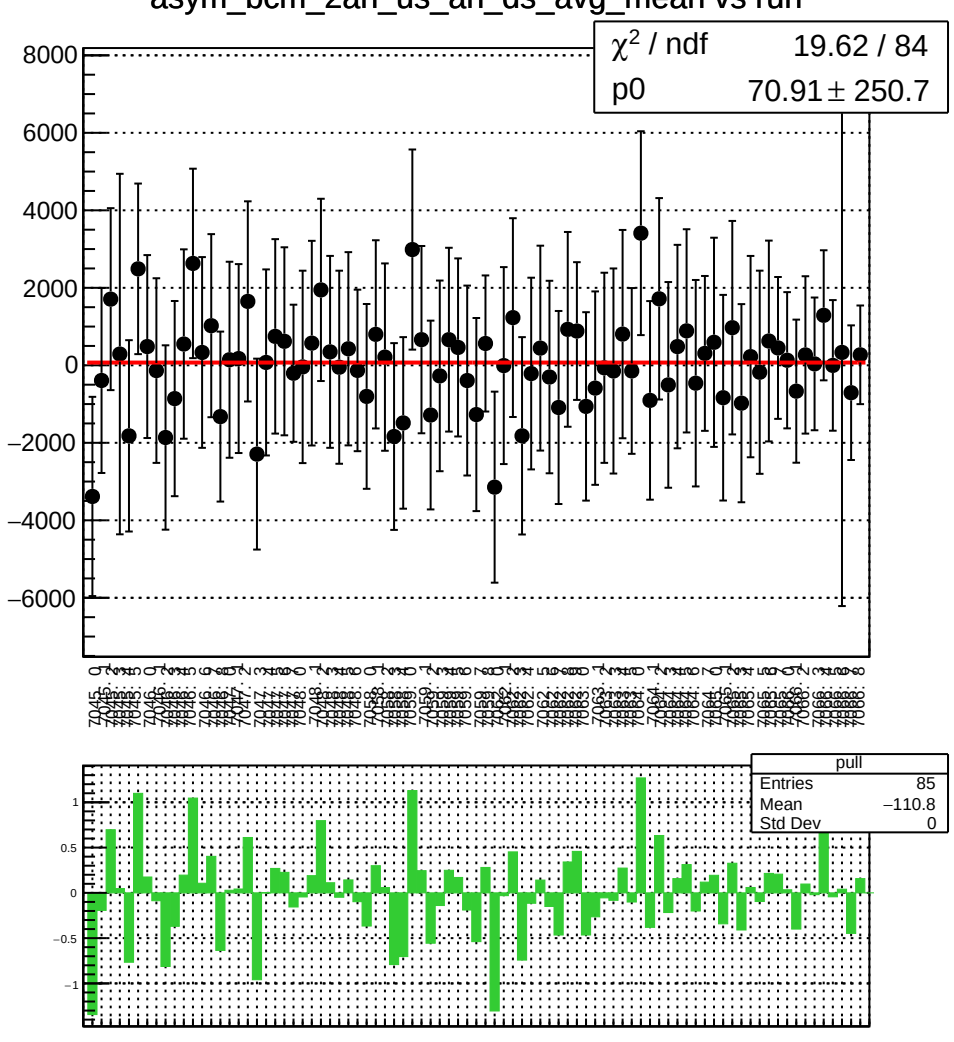

pull1D
Entries 85
Mean −0.2882
Std Dev 3.853
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

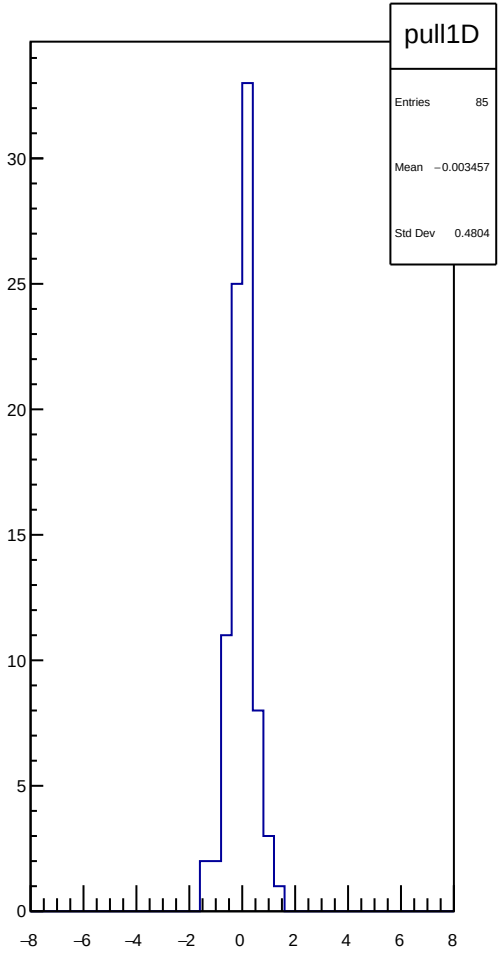

asym_bpm1i04WS_rms vs run
χ^2 / ndf 3.016e+04 / 84
p0 127.7 ± 0.1004
450
400
350
300
250
200
150
100

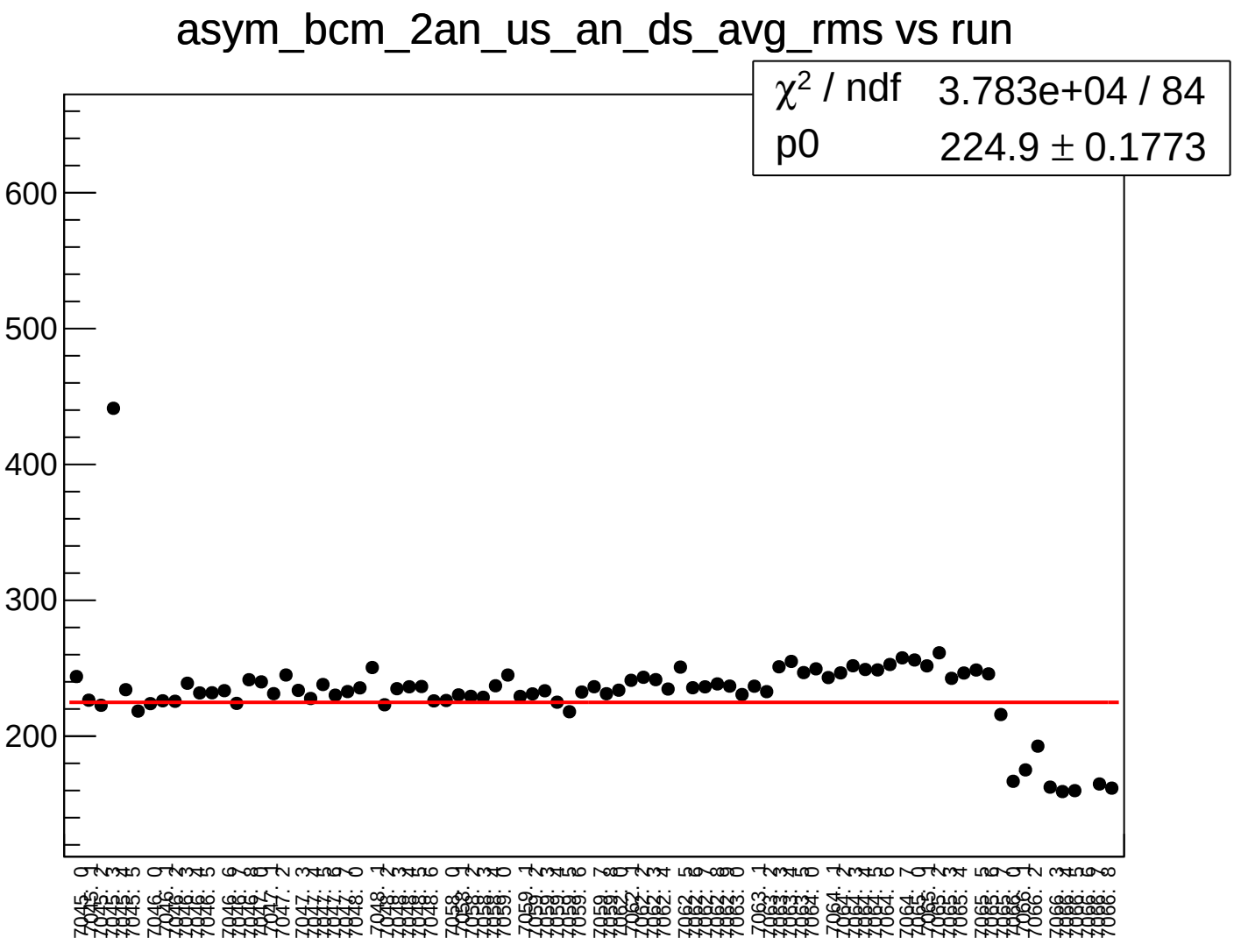

asym_bpm1i06WS_mean vs run
χ² / ndf 1441 / 84
p0 1052 ± 170.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 3216
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

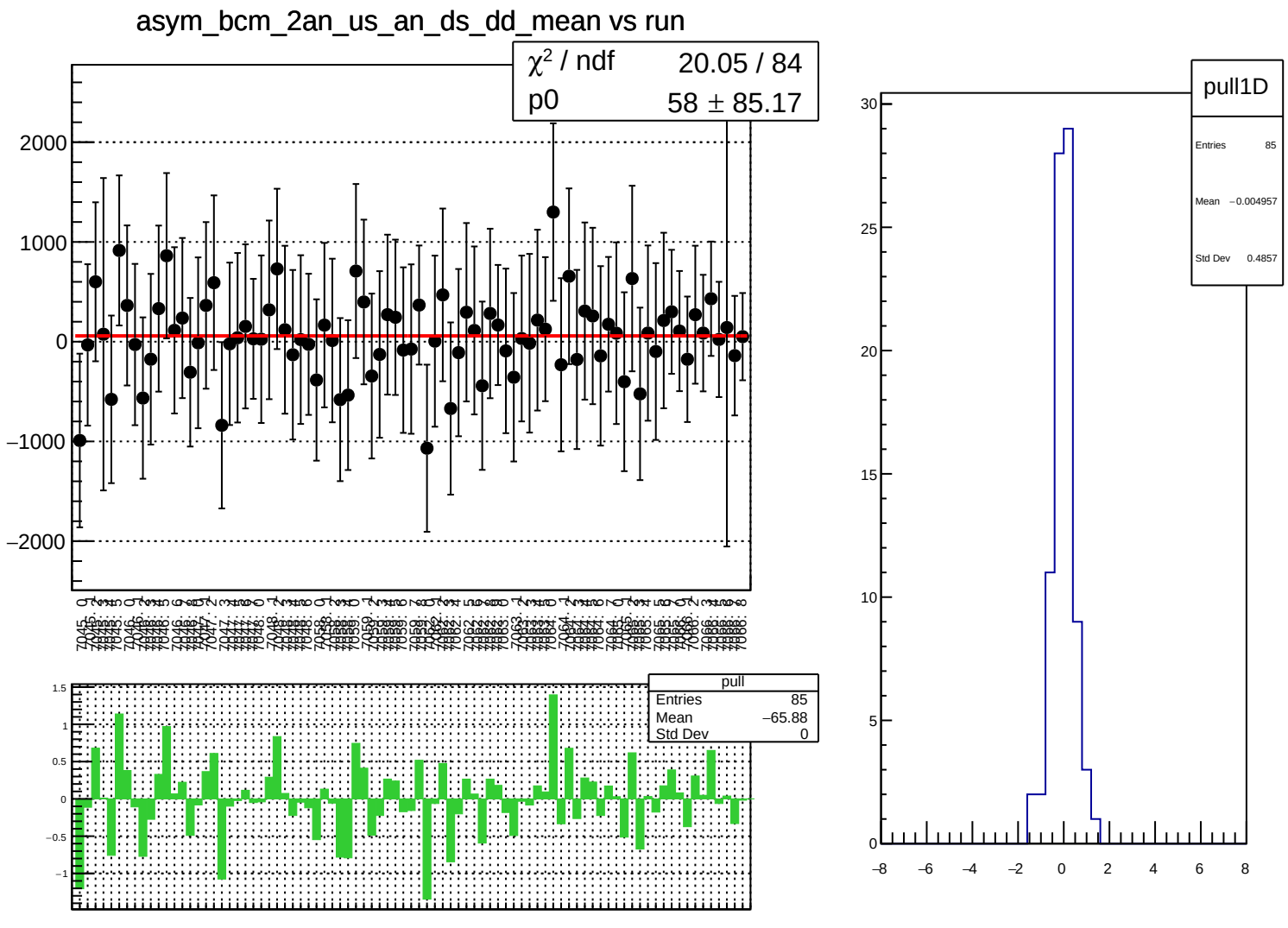

pull1D
Entries 85
Mean −0.03706
Std Dev 3.783
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

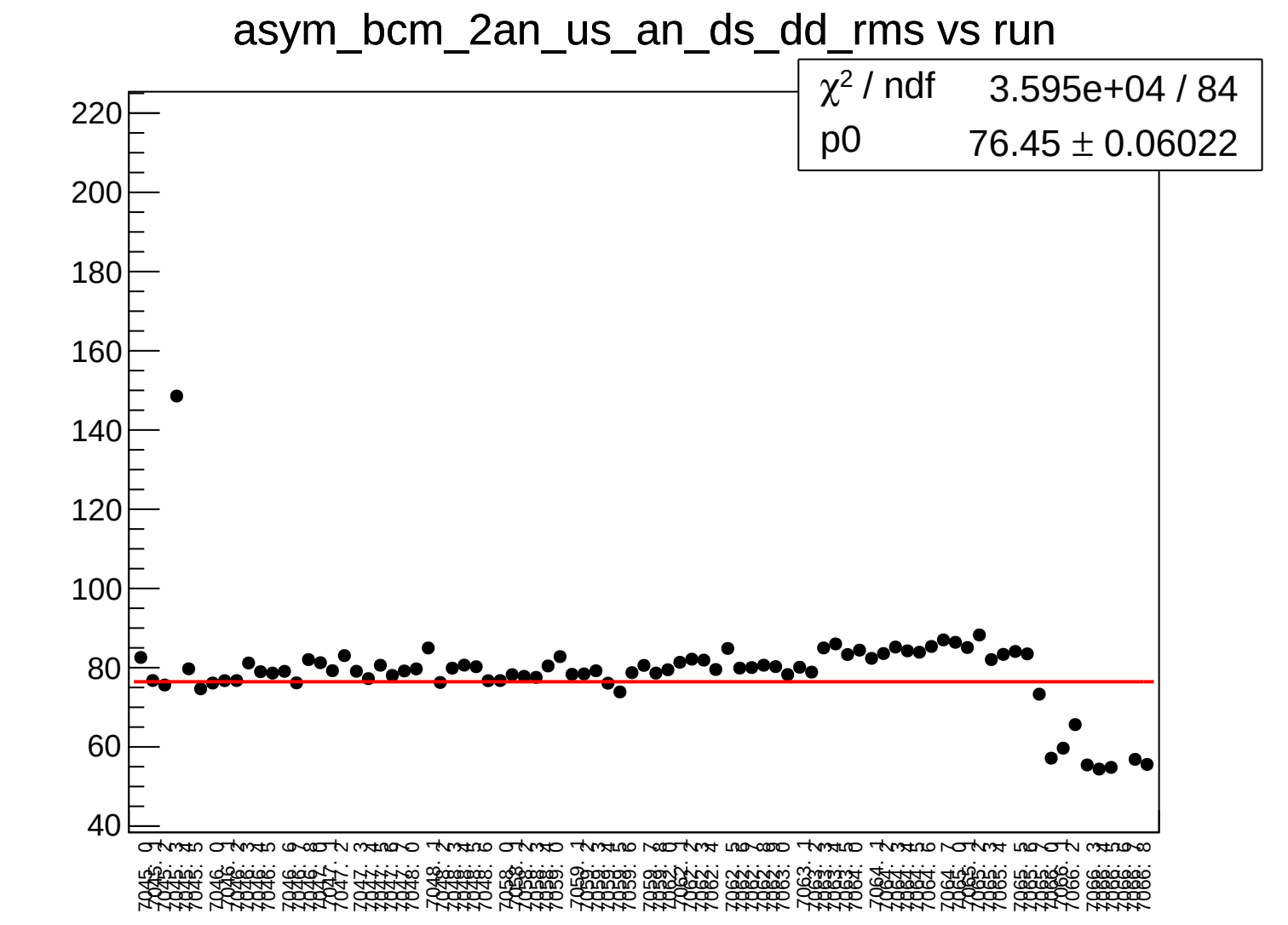

asym_bpm1i06WS_rms vs run
χ² / ndf 2.583e+04 / 84
p0 153.9 ± 0.1209
500
450
400
350
300
250
200
150

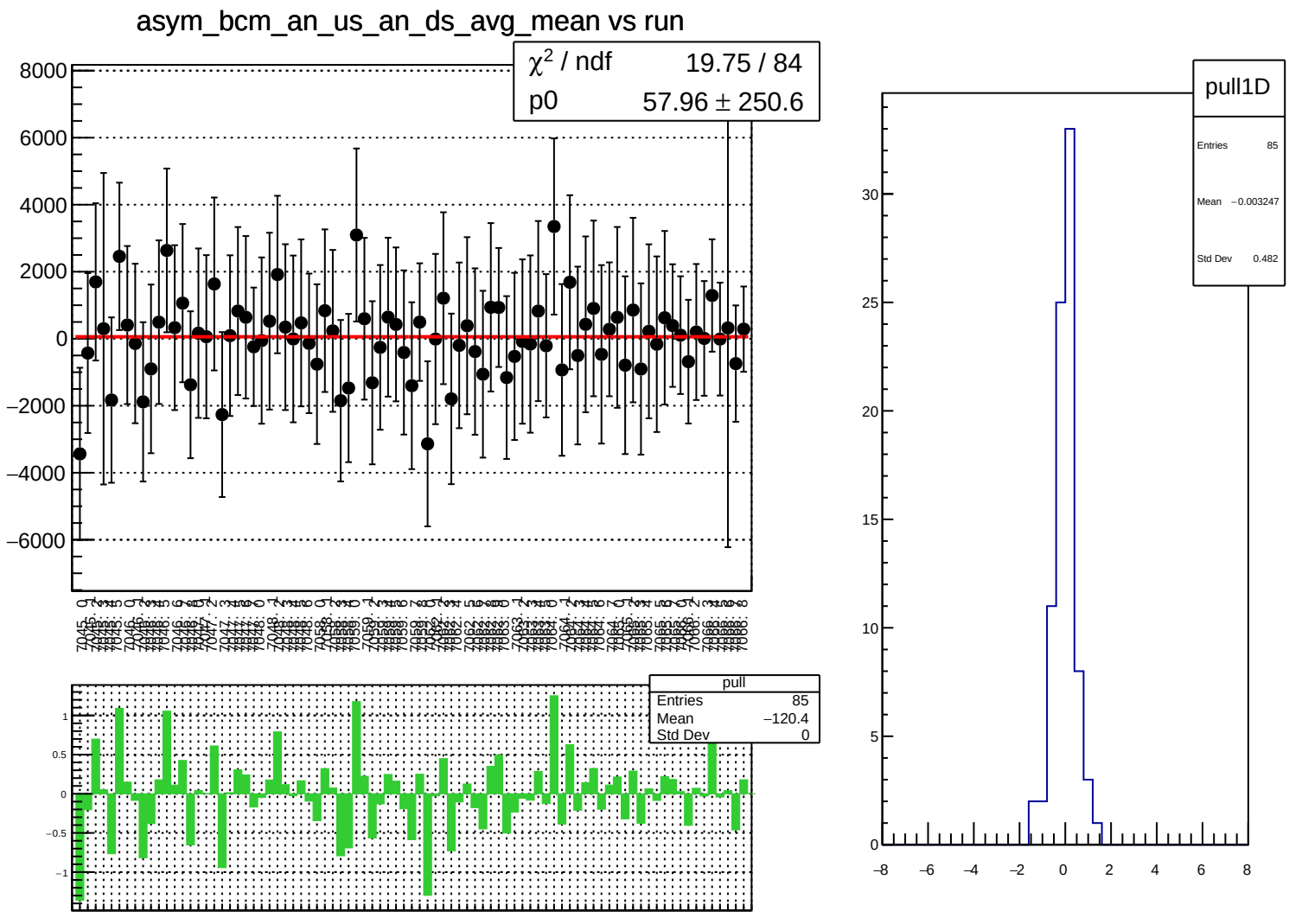

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 19.62 / 84
p0 70.91 ± 250.7
pull
Entries 85
Mean −110.8
Std Dev 0

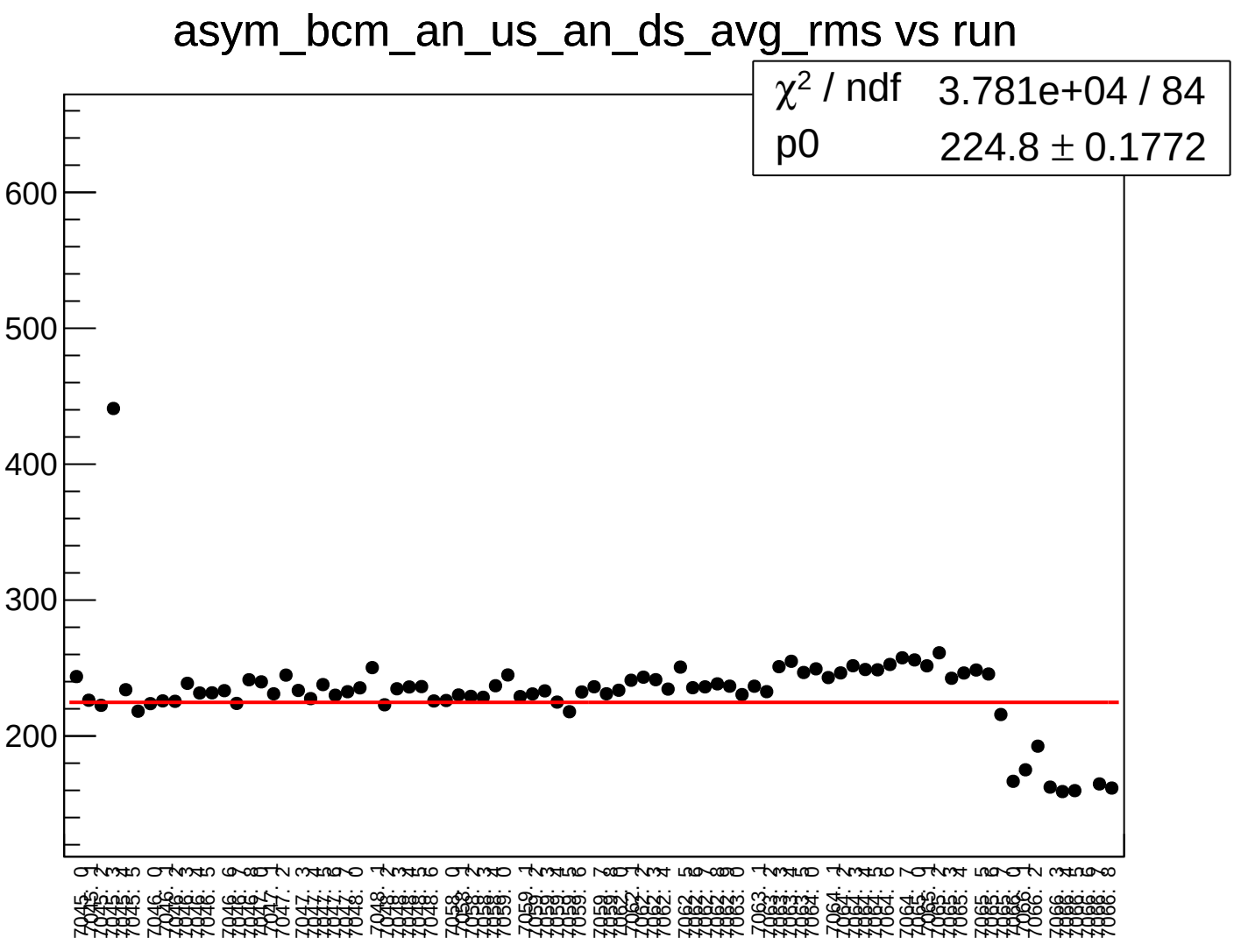

pull1D
Entries 85
Mean −0.003457
Std Dev 0.4804

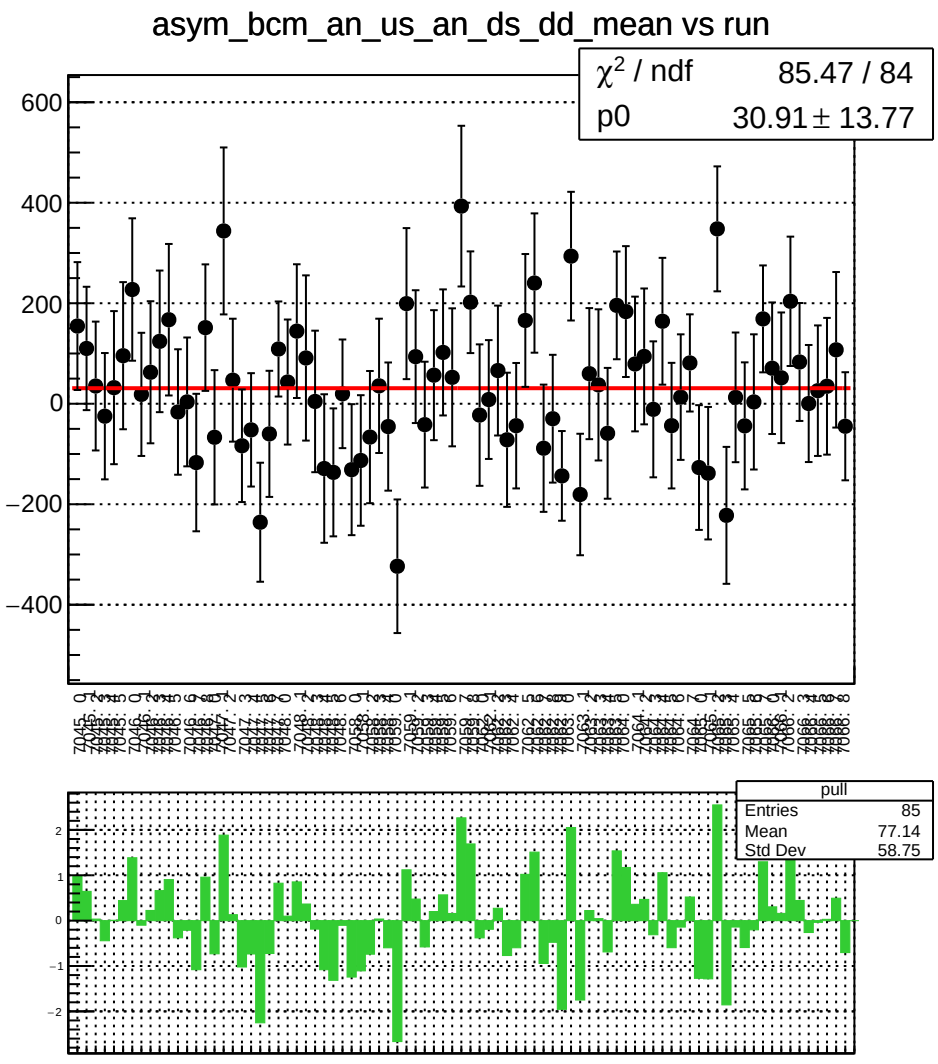

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.783e+04 / 84
p0 224.9 ± 0.1773
600
500
400
300
200

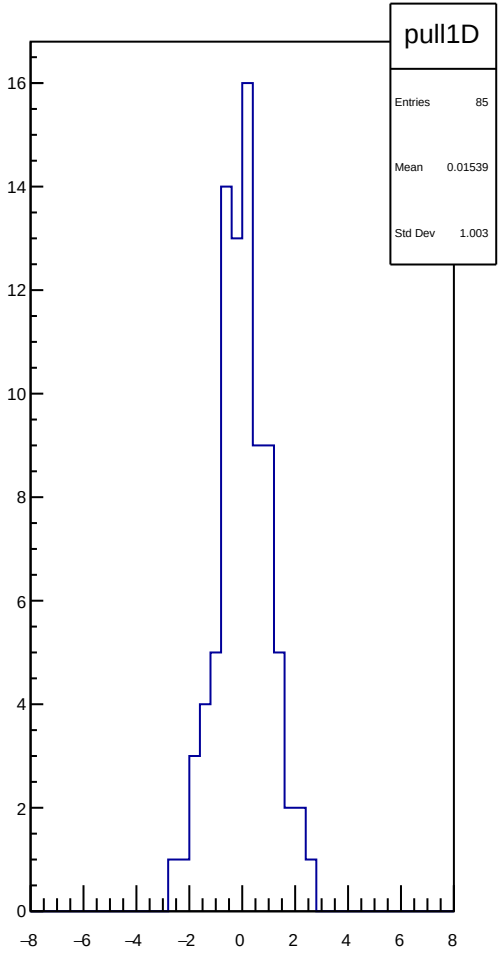

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 20.05 / 84
p0 58 ± 85.17
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −65.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.004957
Std Dev 0.4857
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

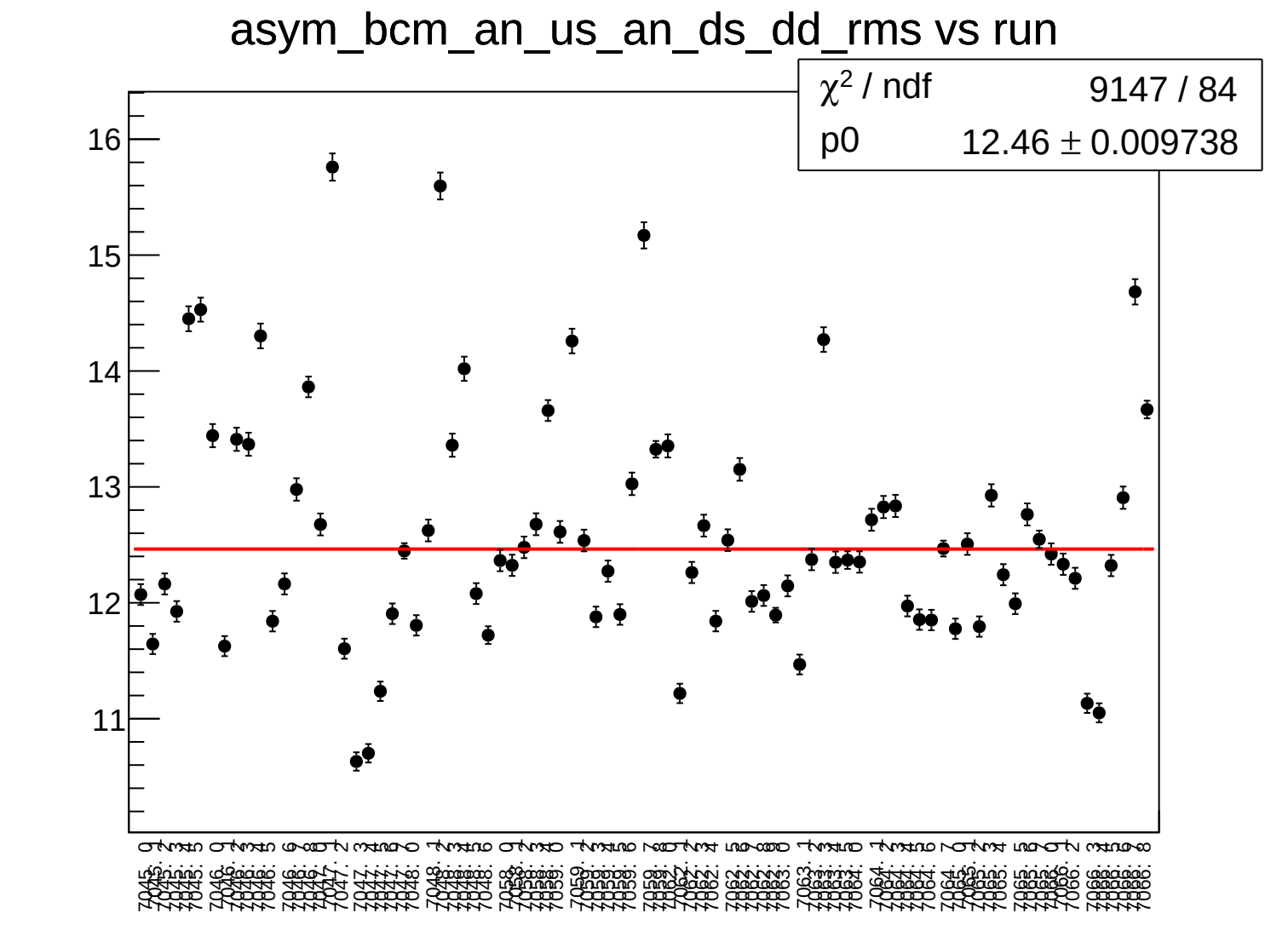

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.595e+04 / 84
p0 76.45 ± 0.06022
220
200
180
160
140
120
100
80
60
40

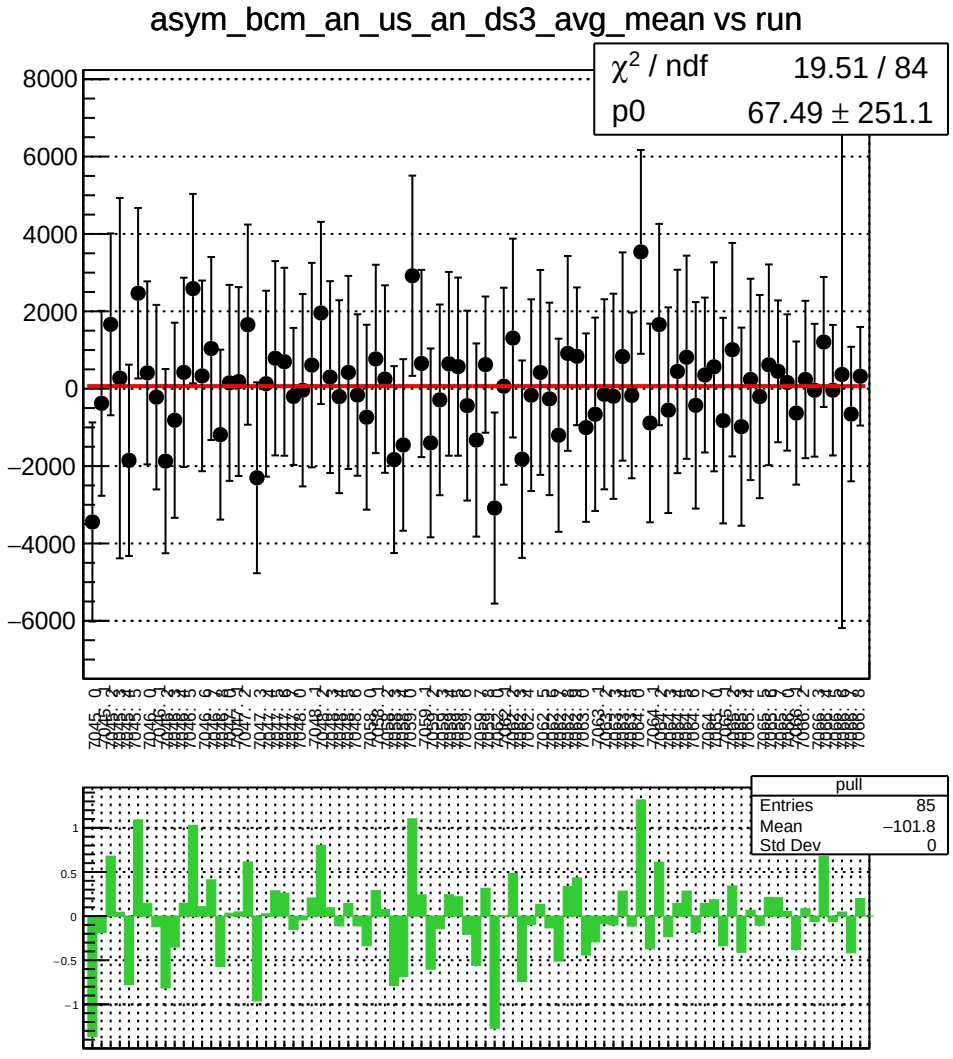

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 19.75 / 84
p0 57.96 ± 250.6
pull
Entries 85
Mean −120.4
Std Dev 0
pull1D
Entries 85
Mean −0.003247
Std Dev 0.482

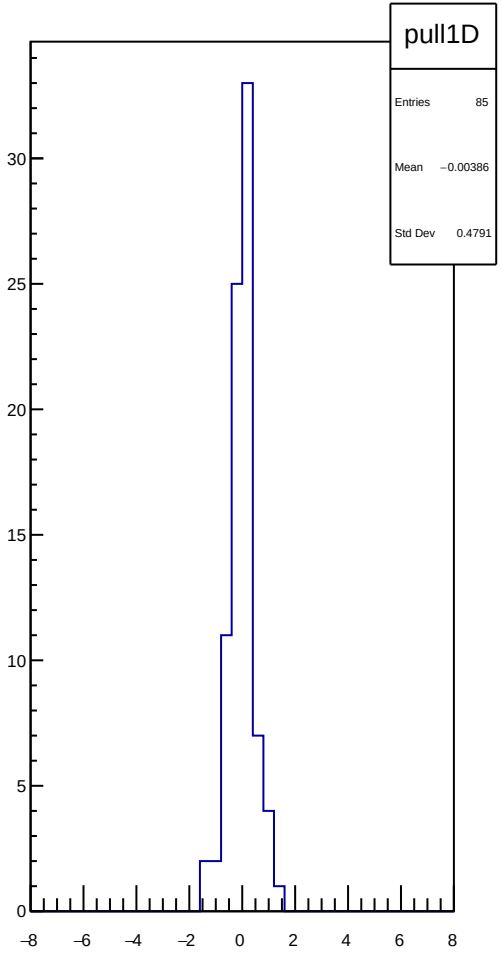

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.781e+04 / 84
p0 224.8 ± 0.1772
600
500
400
300
200

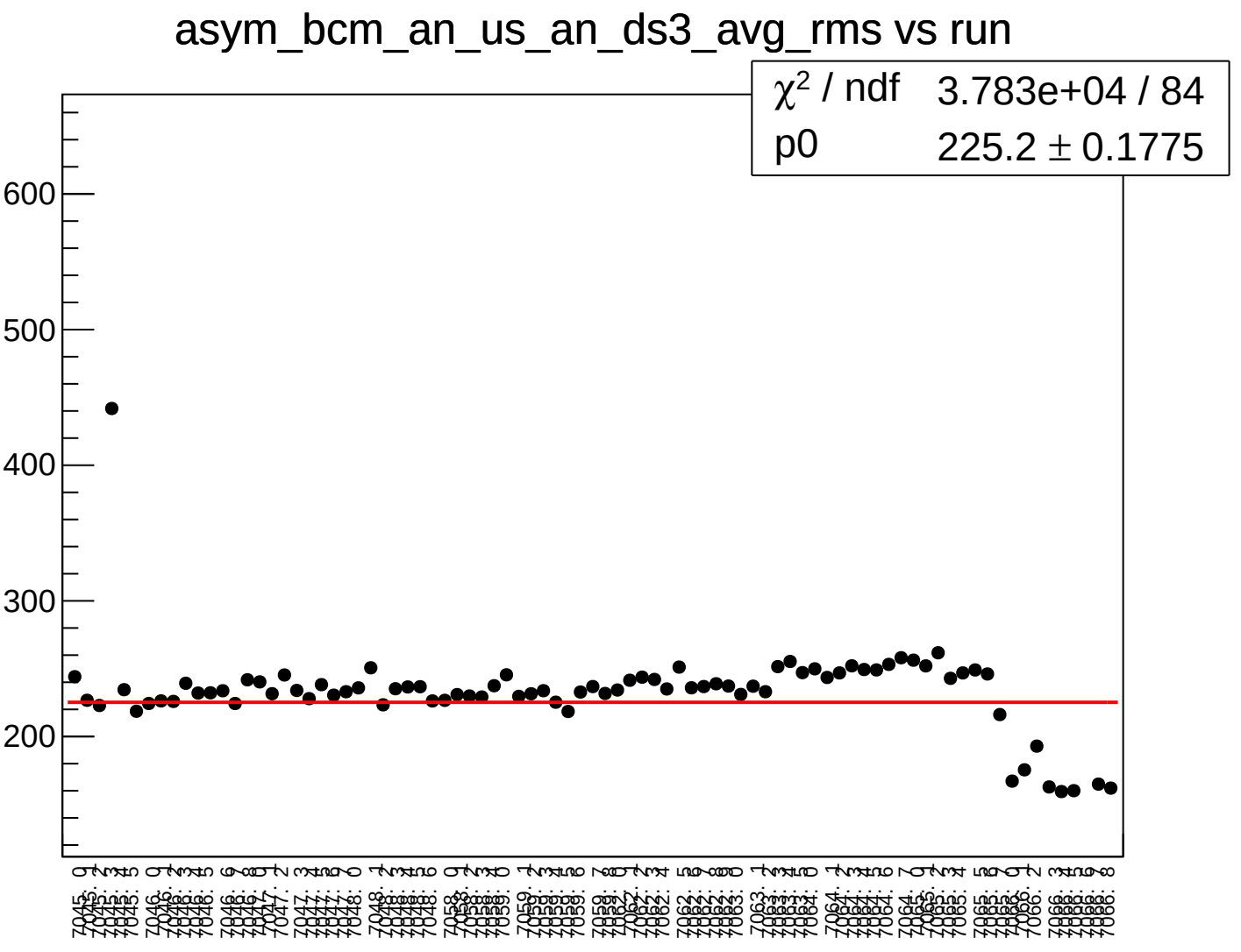

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 85.47 / 84
p0 30.91 ± 13.77
pull
Entries 85
Mean 77.14
Std Dev 58.75

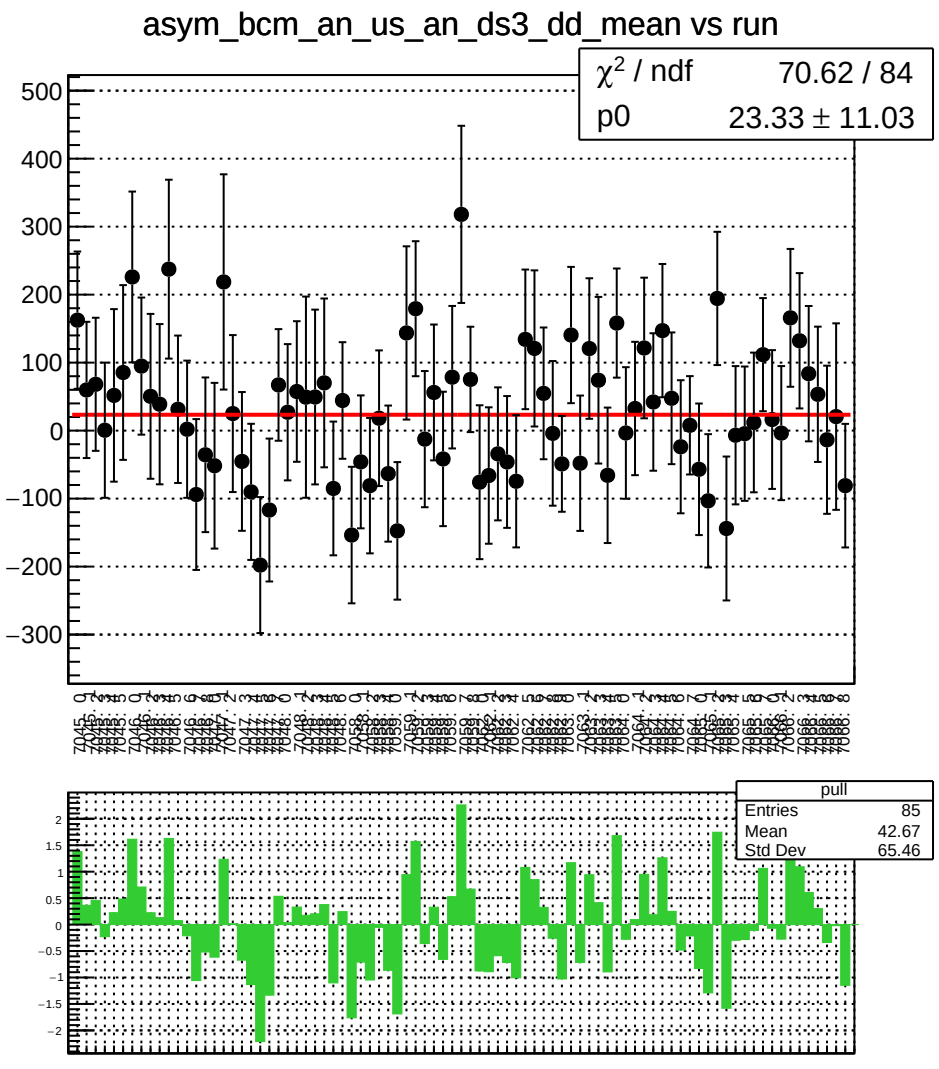

pull1D
Entries 85
Mean 0.01539
Std Dev 1.003

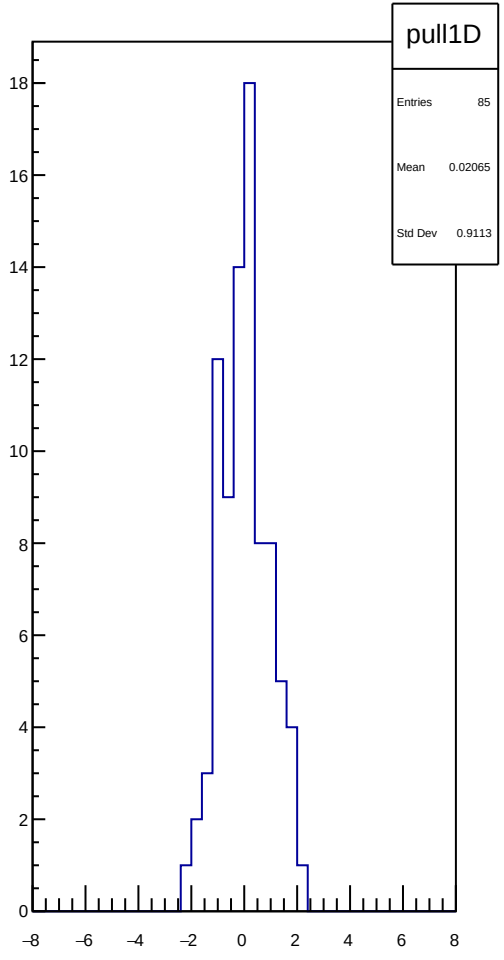

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 9147 / 84
p0 12.46 ± 0.009738
16
15
14
13
12
11

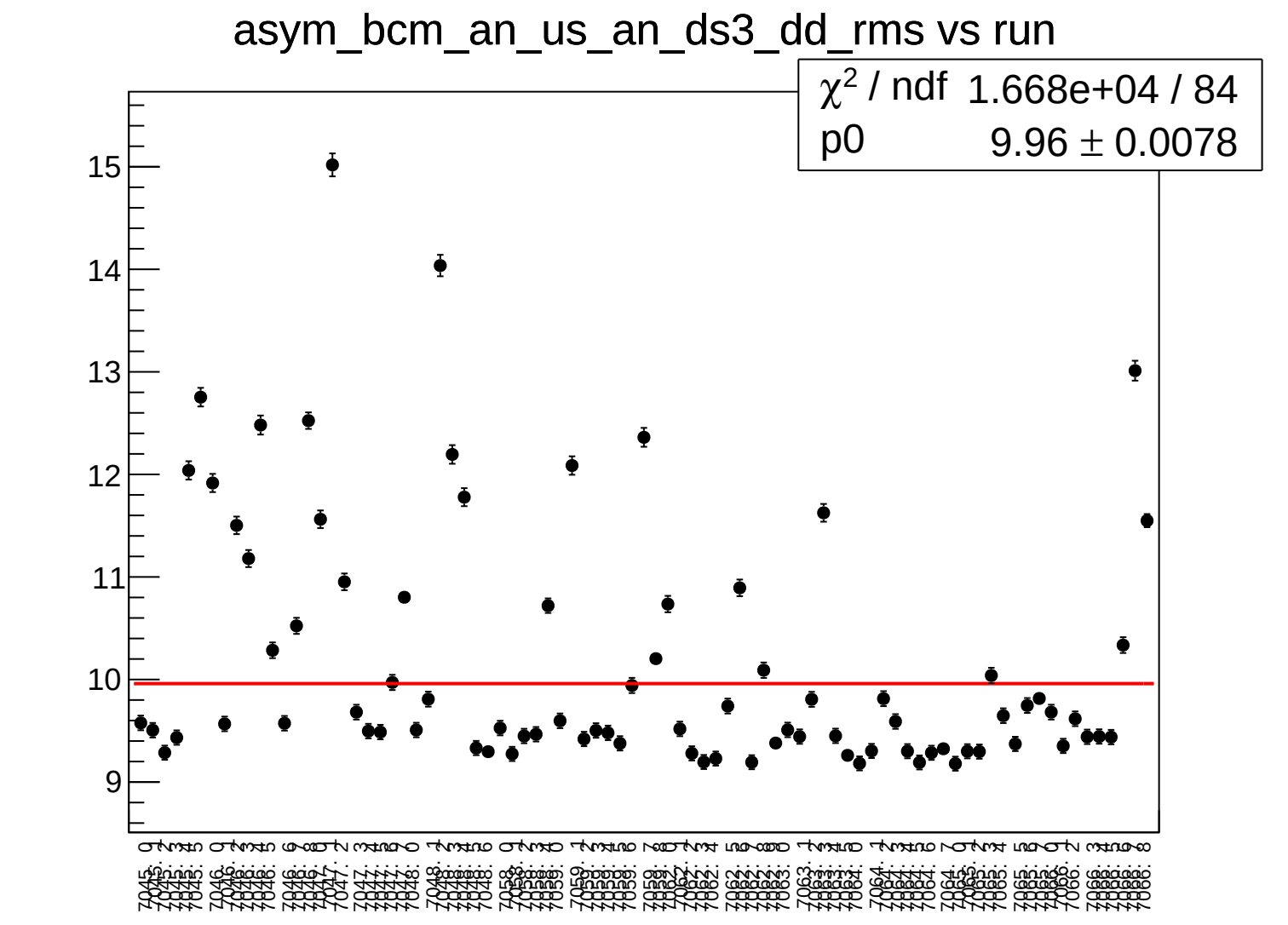

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 19.51 / 84
p0 67.49 ± 251.1
pull
Entries 85
Mean −101.8
Std Dev 0

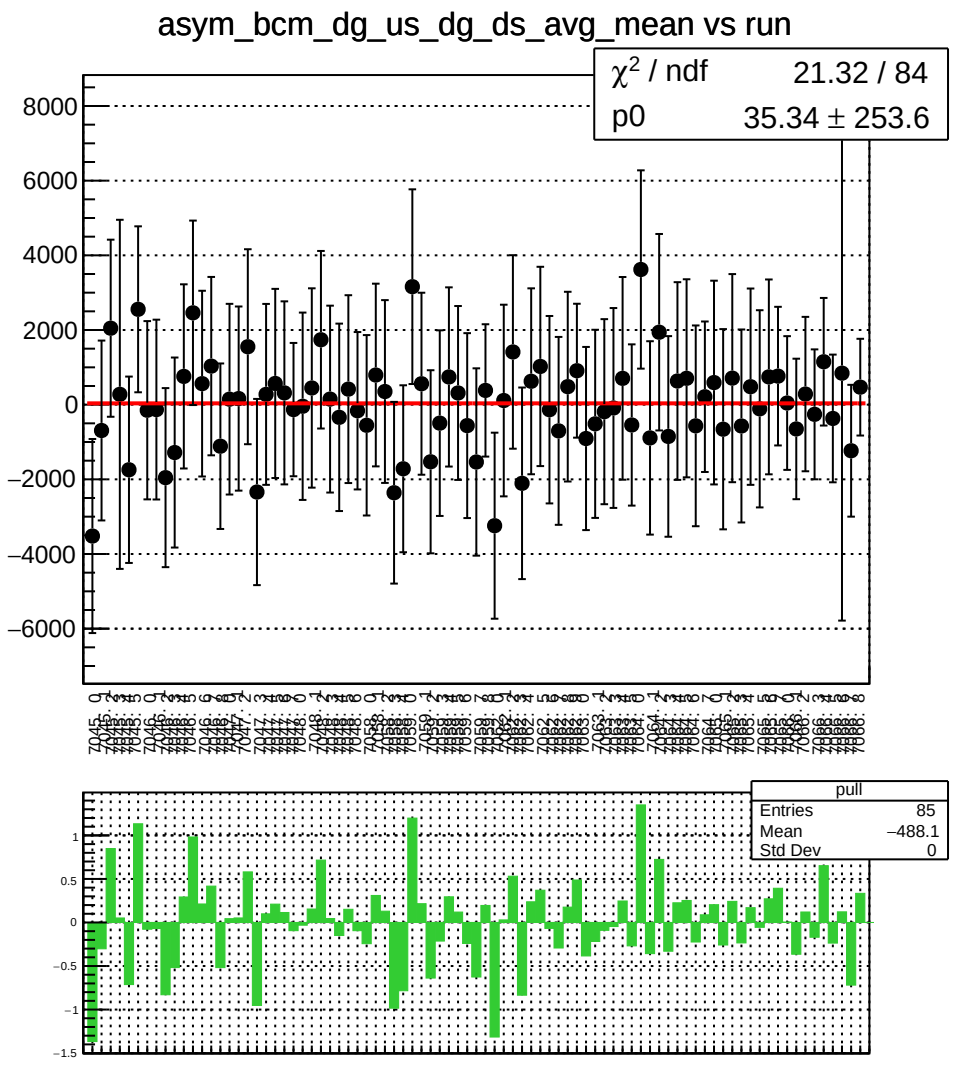

pull1D
Entries 85
Mean −0.00386
Std Dev 0.4791

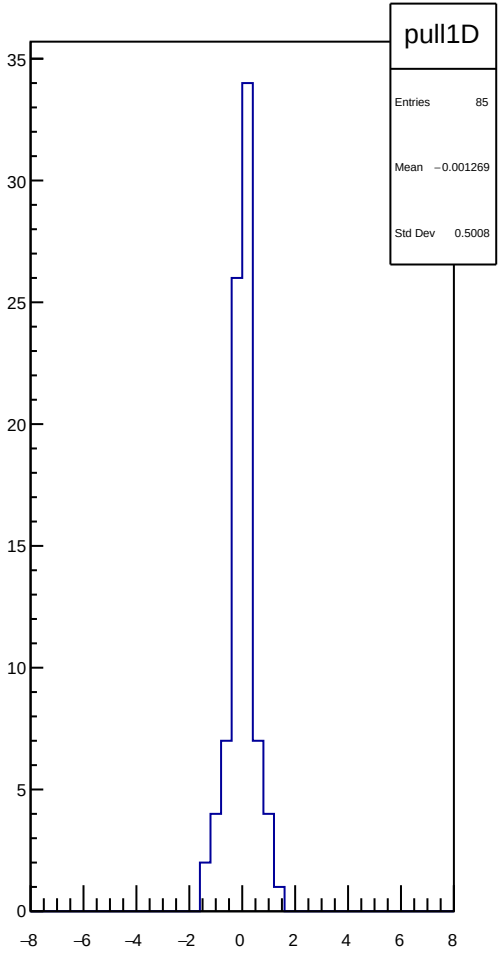

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.783e+04 / 84
p0 225.2 ± 0.1775
600
500
400
300
200

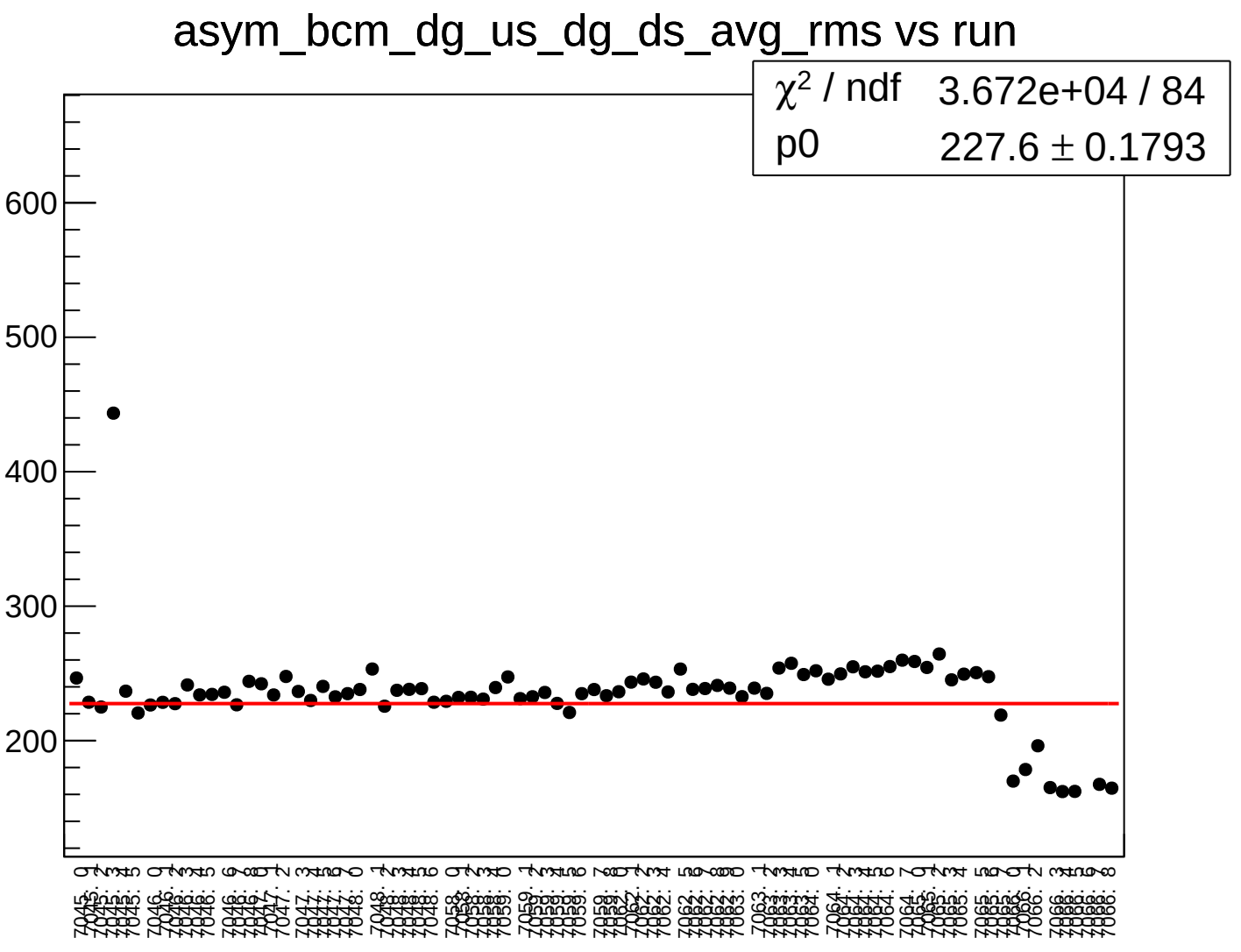

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 70.62 / 84
p0 23.33 ± 11.03
pull
Entries 85
Mean 42.67
Std Dev 65.46

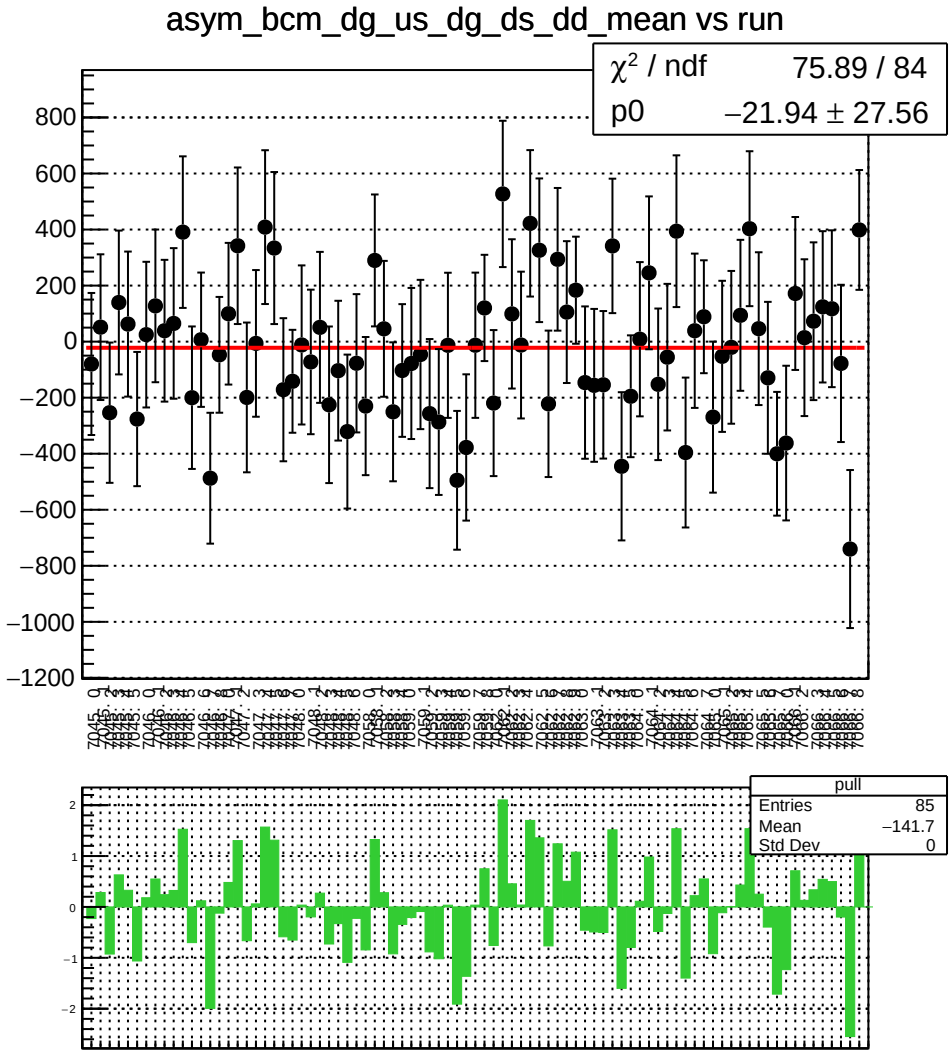

pull1D
Entries 85
Mean 0.02065
Std Dev 0.9113

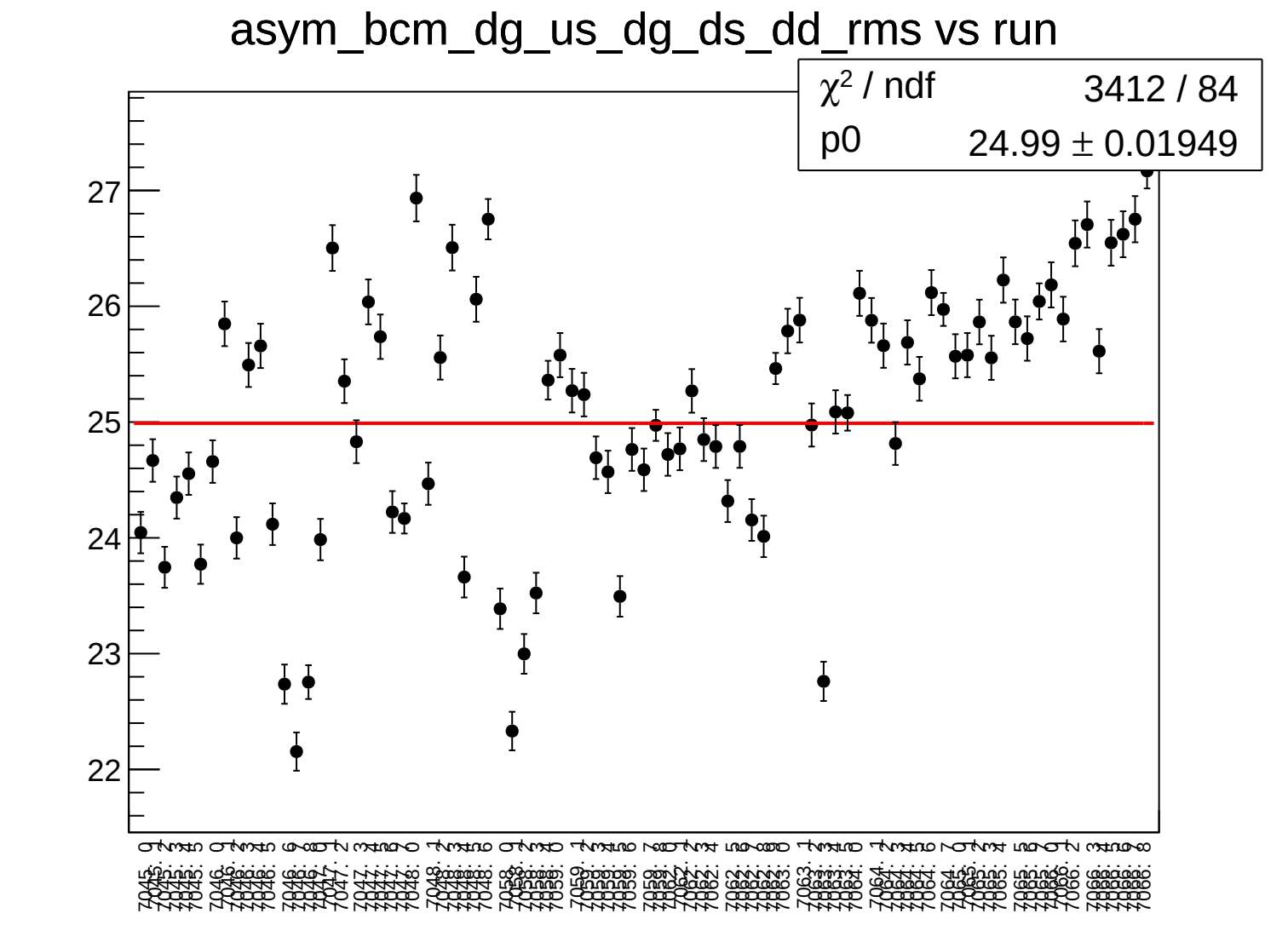

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.668e+04 / 84
p0 9.96 ± 0.0078
15
14
13
12
11
10
9

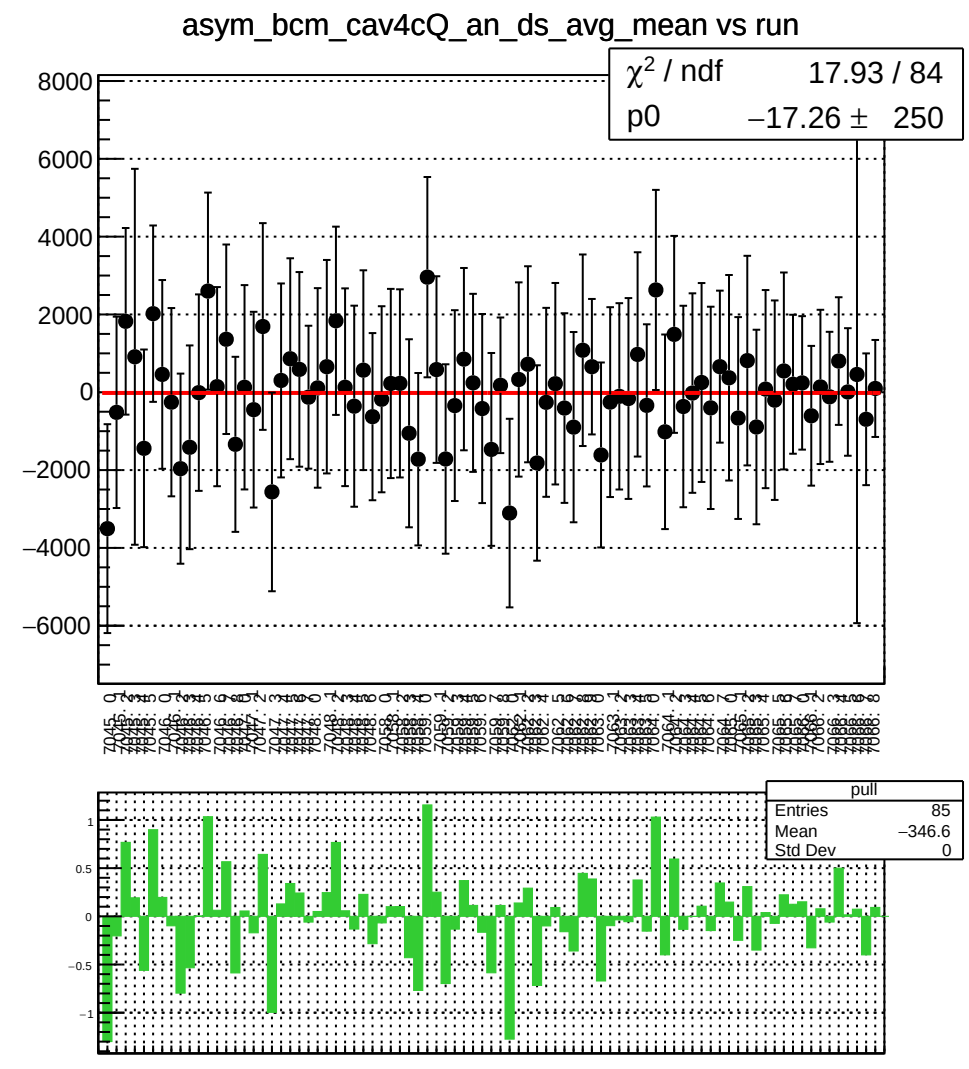

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 21.32 / 84
p0 35.34 ± 253.6
pull
Entries 85
Mean −488.1
Std Dev 0

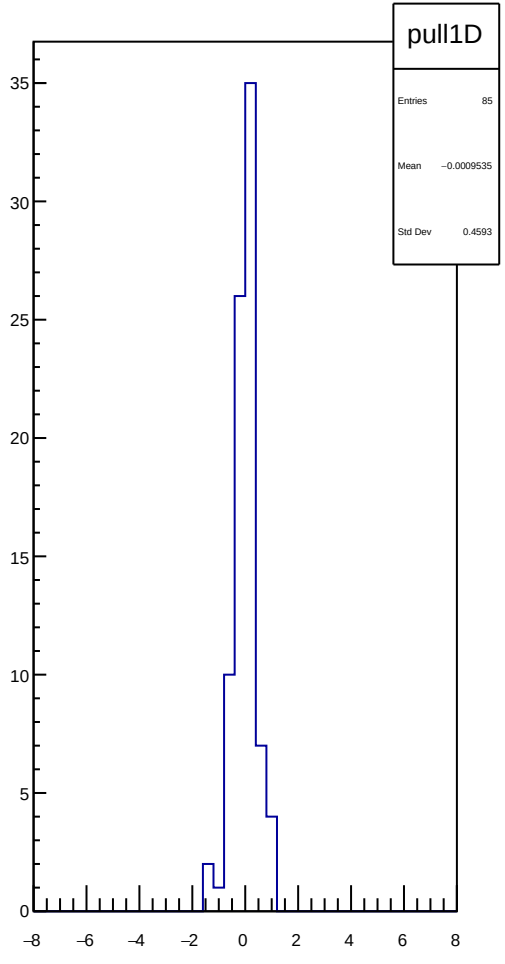

pull1D
Entries 85
Mean −0.001269
Std Dev 0.5008

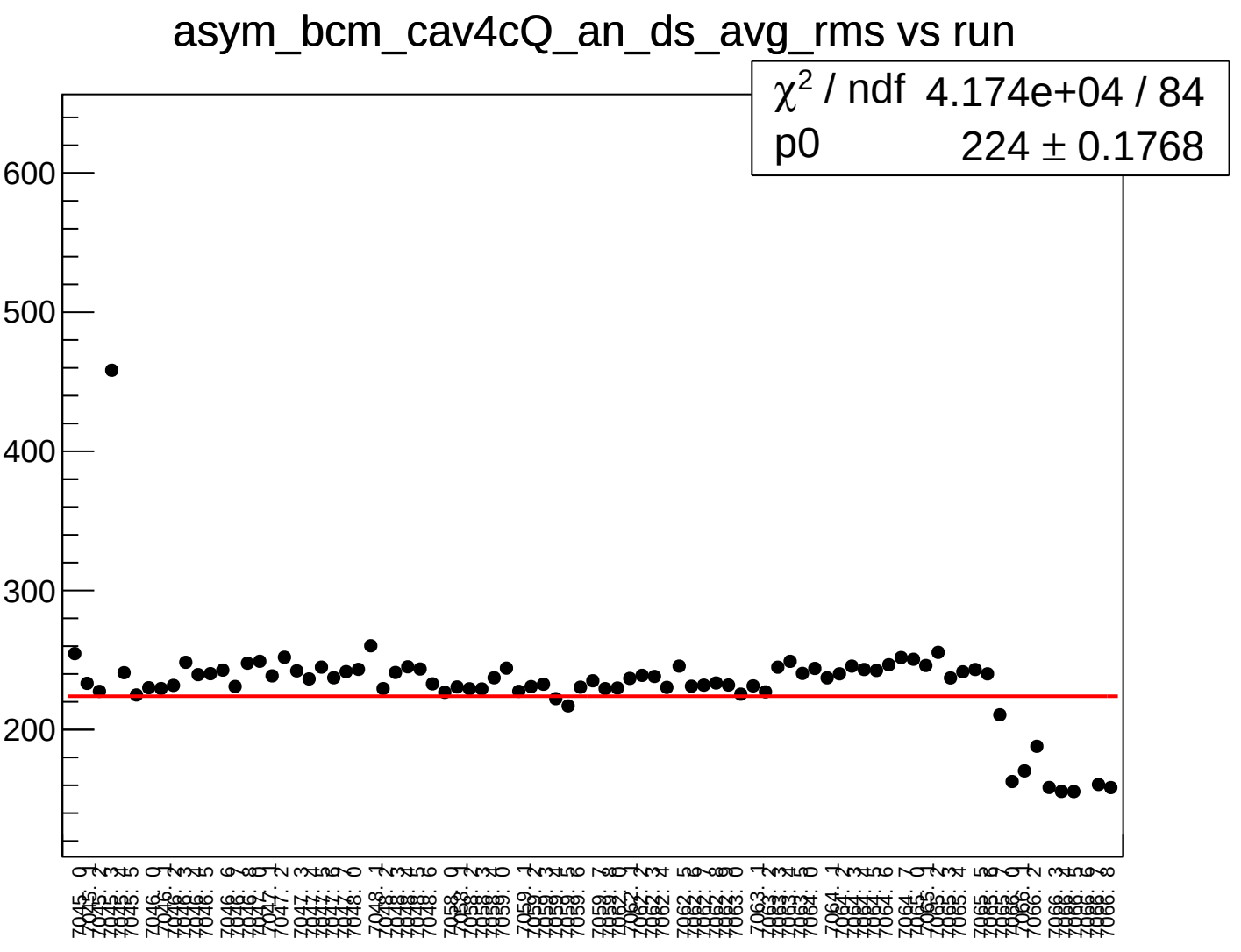

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.672e+04 / 84
p0 227.6 ± 0.1793
600
500
400
300
200

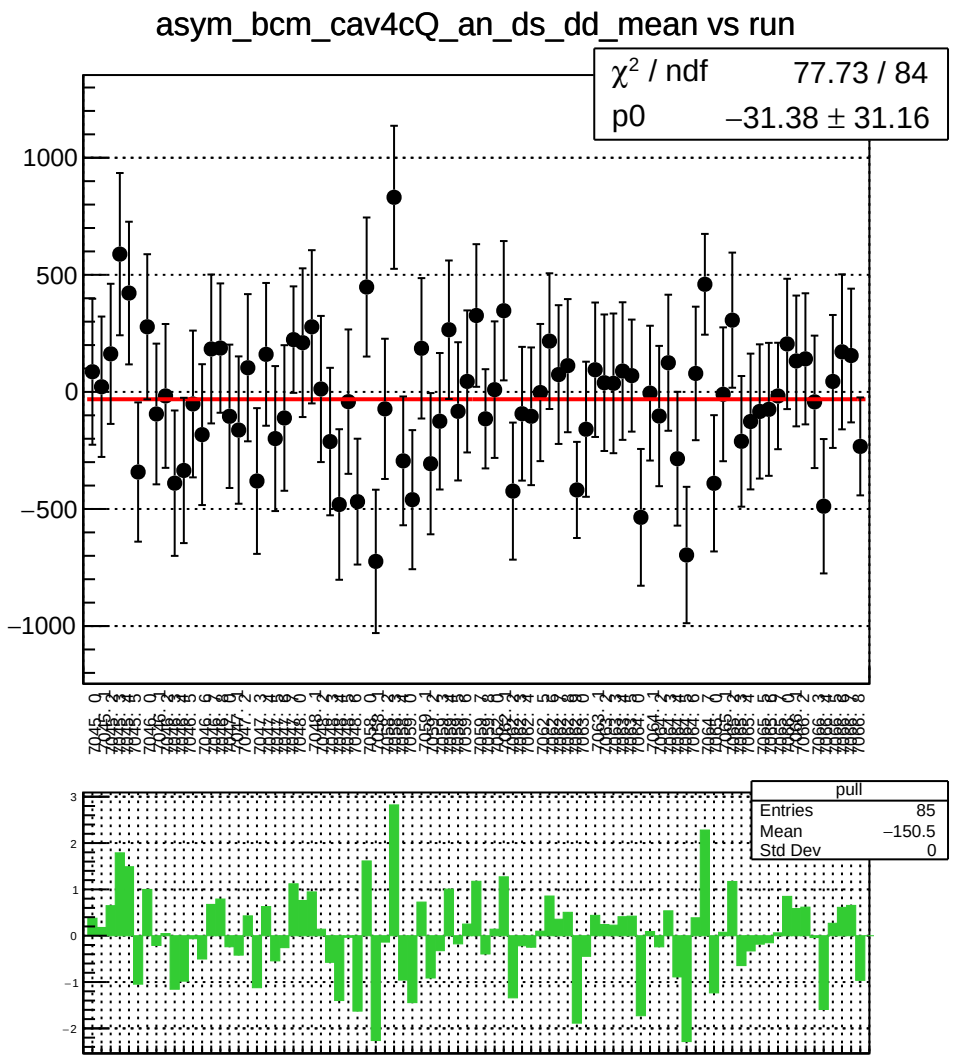

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 75.89 / 84
p0 −21.94 ± 27.56
pull
Entries 85
Mean −141.7
Std Dev 0
pull1D
Entries 85
Mean −0.001774
Std Dev 0.9449

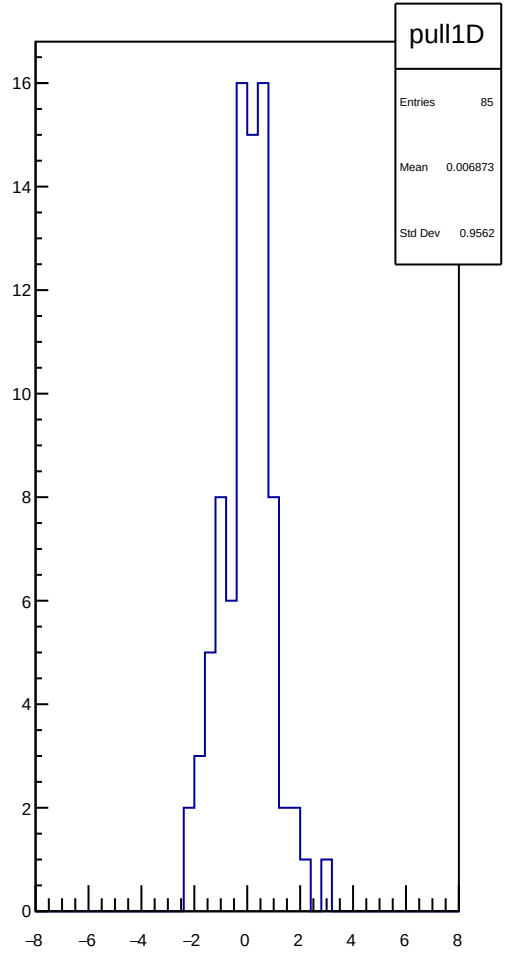

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3412 / 84
p0 24.99 ± 0.01949
27
26
25
24
23
22

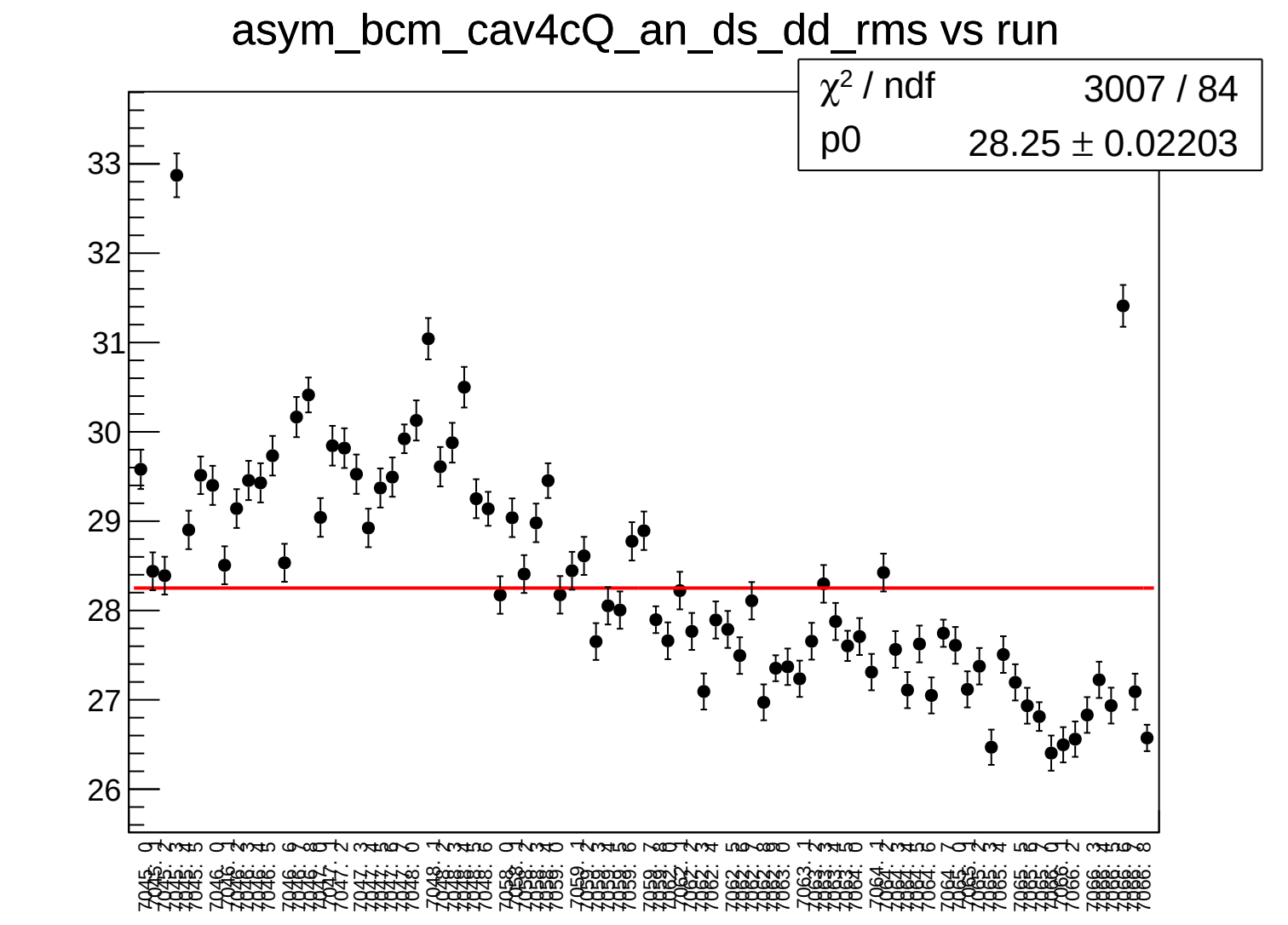

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 17.93 / 84
p0 −17.26 ± 250
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −346.6
Std Dev 0
1
0.5
0
−0.5
−1

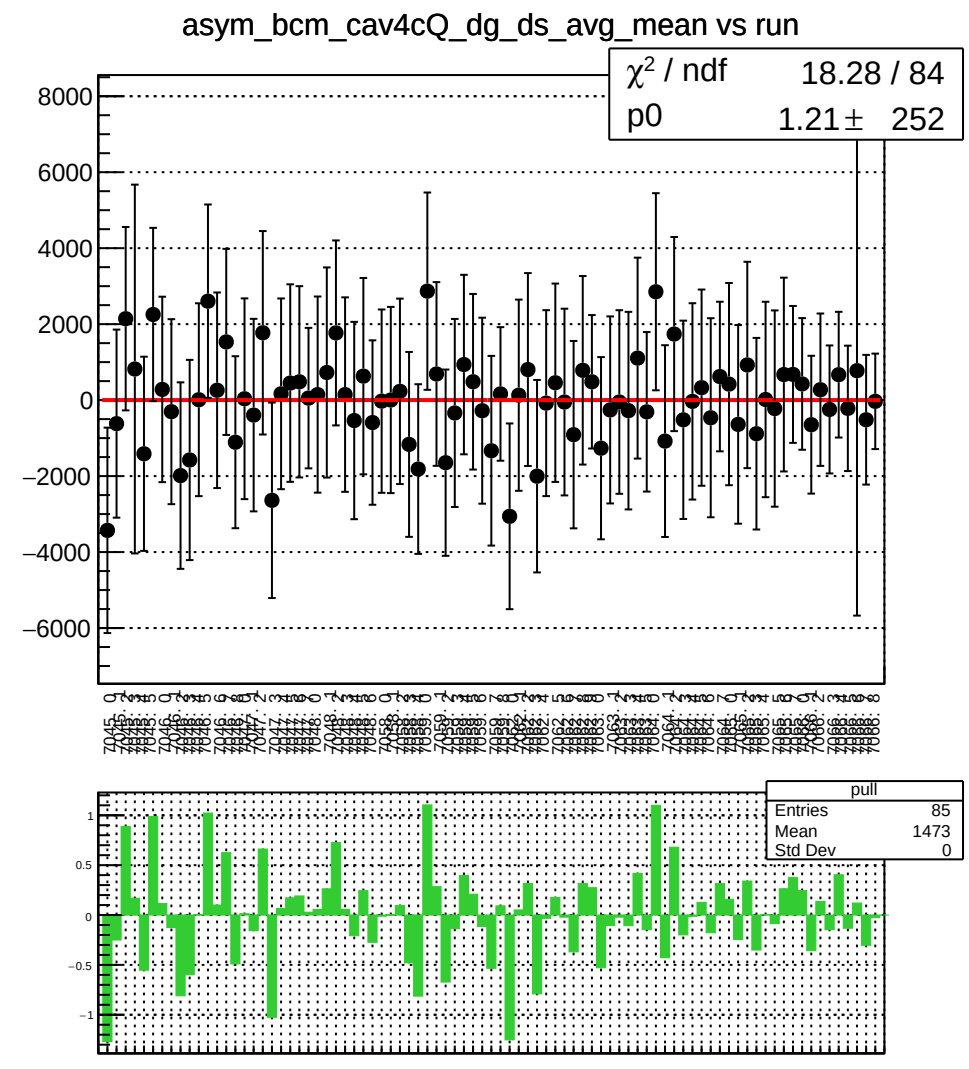

pull1D
Entries 85
Mean −0.0009535
Std Dev 0.4593
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

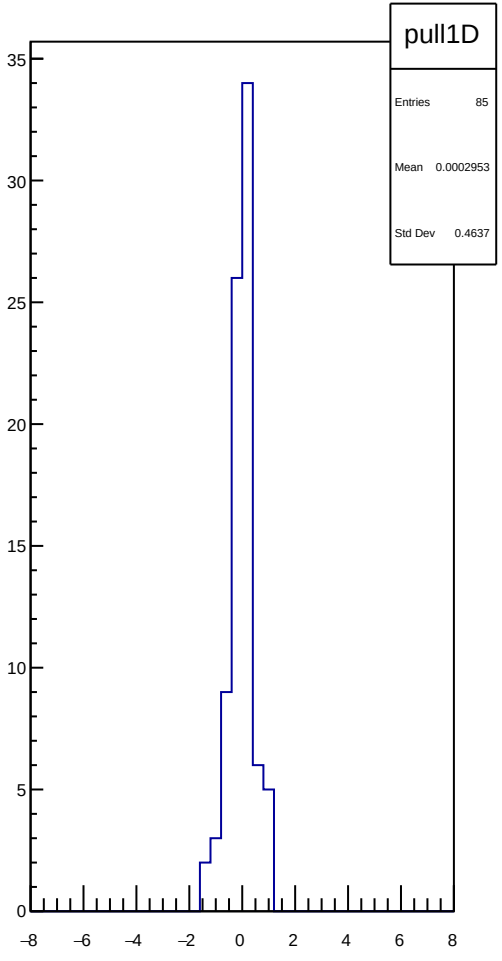

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ^2 / ndf 4.174e+04 / 84
p0 224 ± 0.1768
600
500
400
300
200

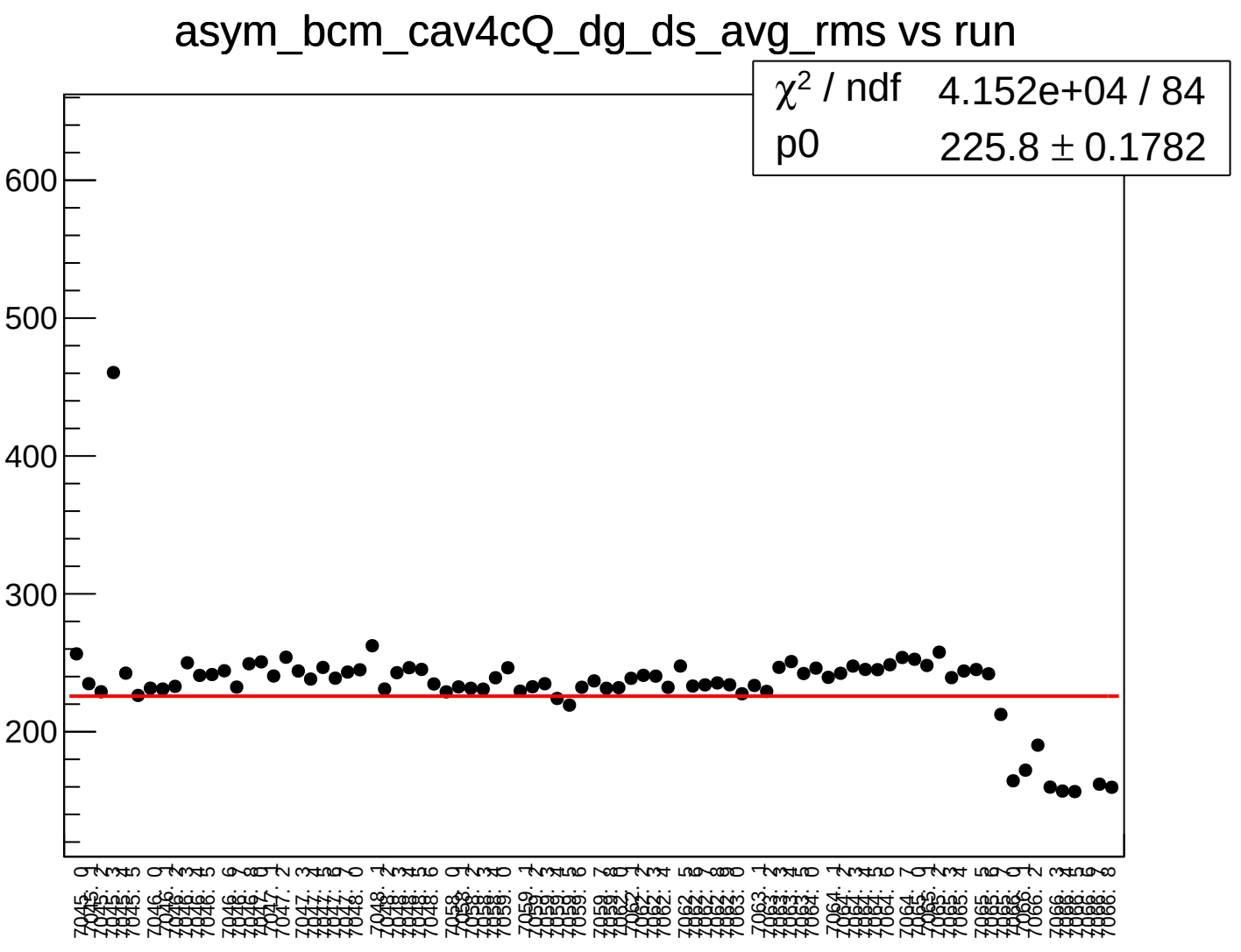

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 77.73 / 84
p0 −31.38 ± 31.16
1000
500
0
−500
−1000
pull
Entries 85
Mean −150.5
Std Dev 0
3
2
1
0
−1
−2

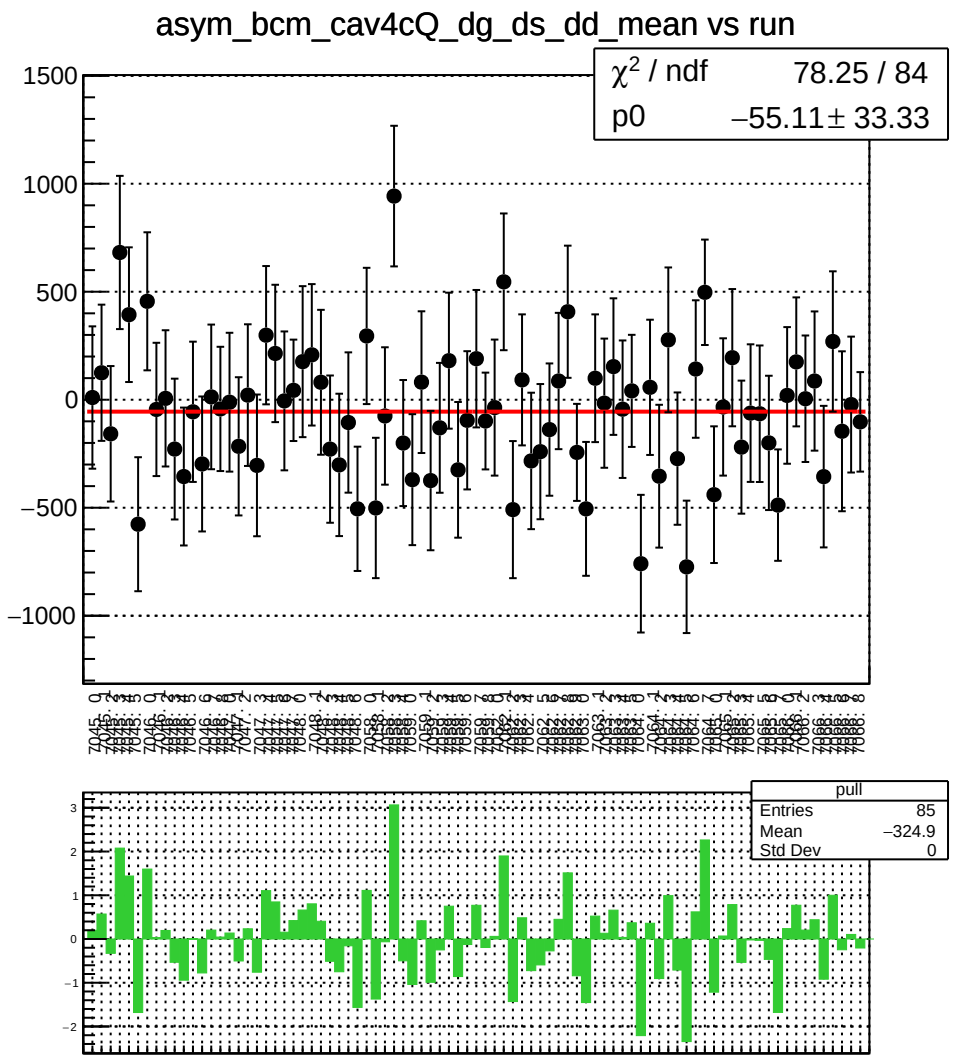

pull1D
Entries 85
Mean 0.006873
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

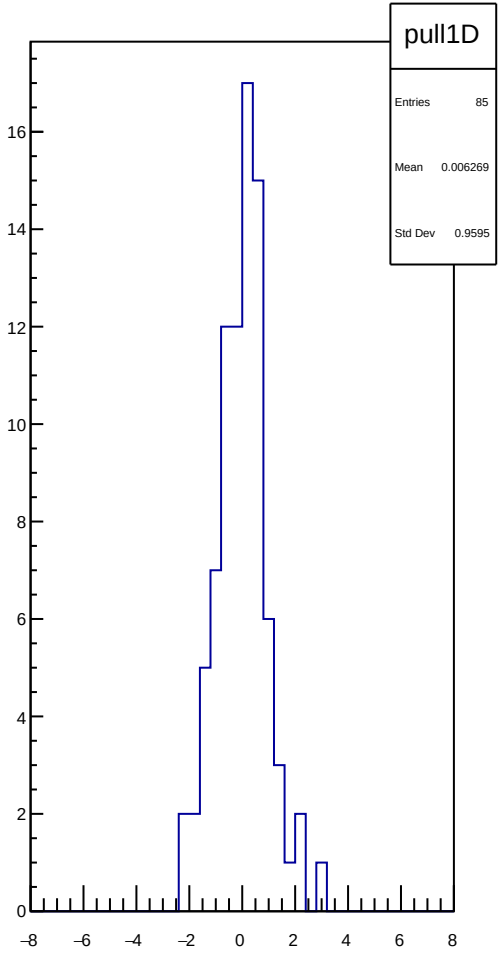

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3007 / 84
p0 28.25 ± 0.02203
33
32
31
30
29
28
27
26

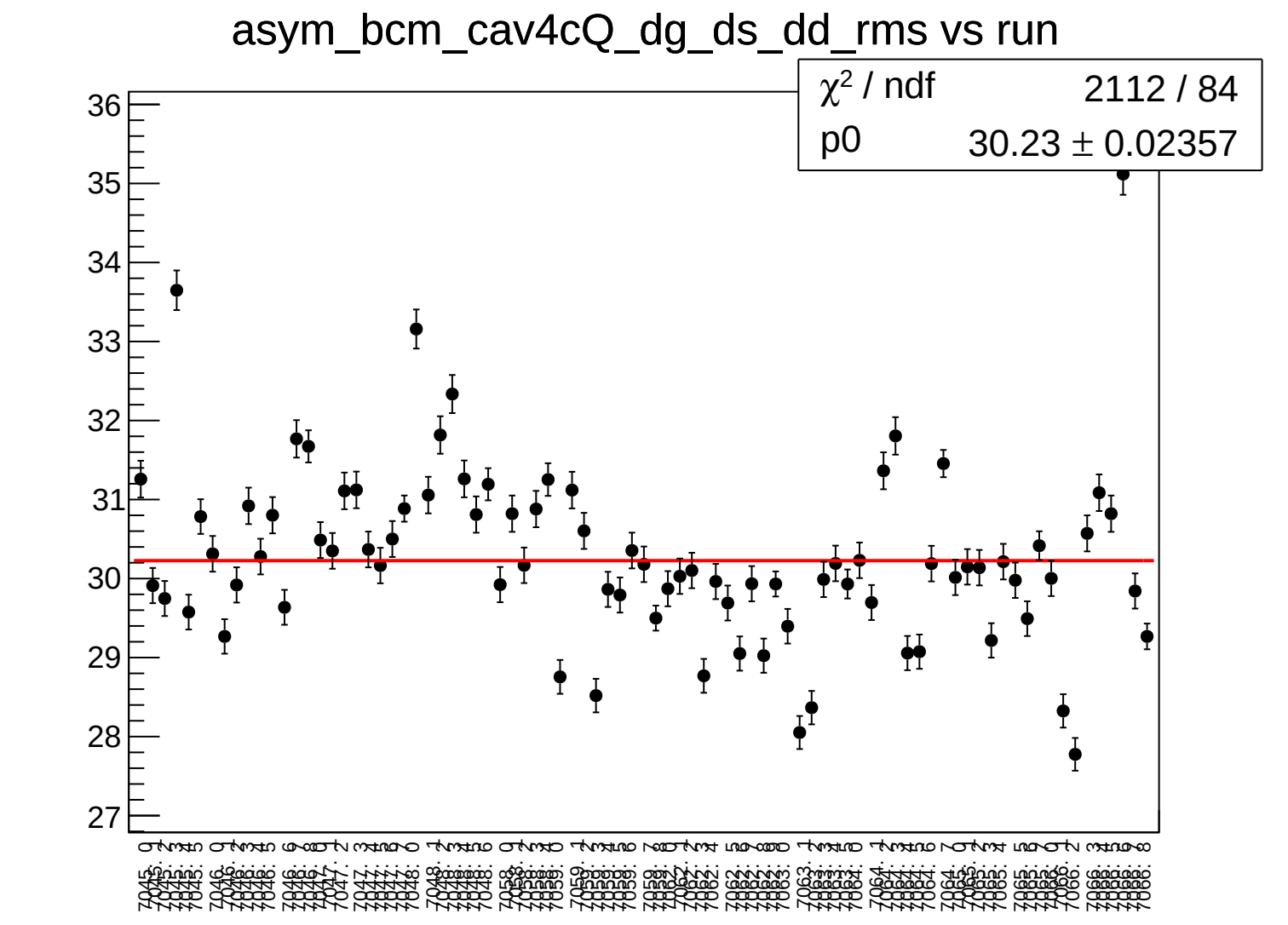

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 18.28 / 84
p0 1.21± 252
pull
Entries 85
Mean 1473
Std Dev 0

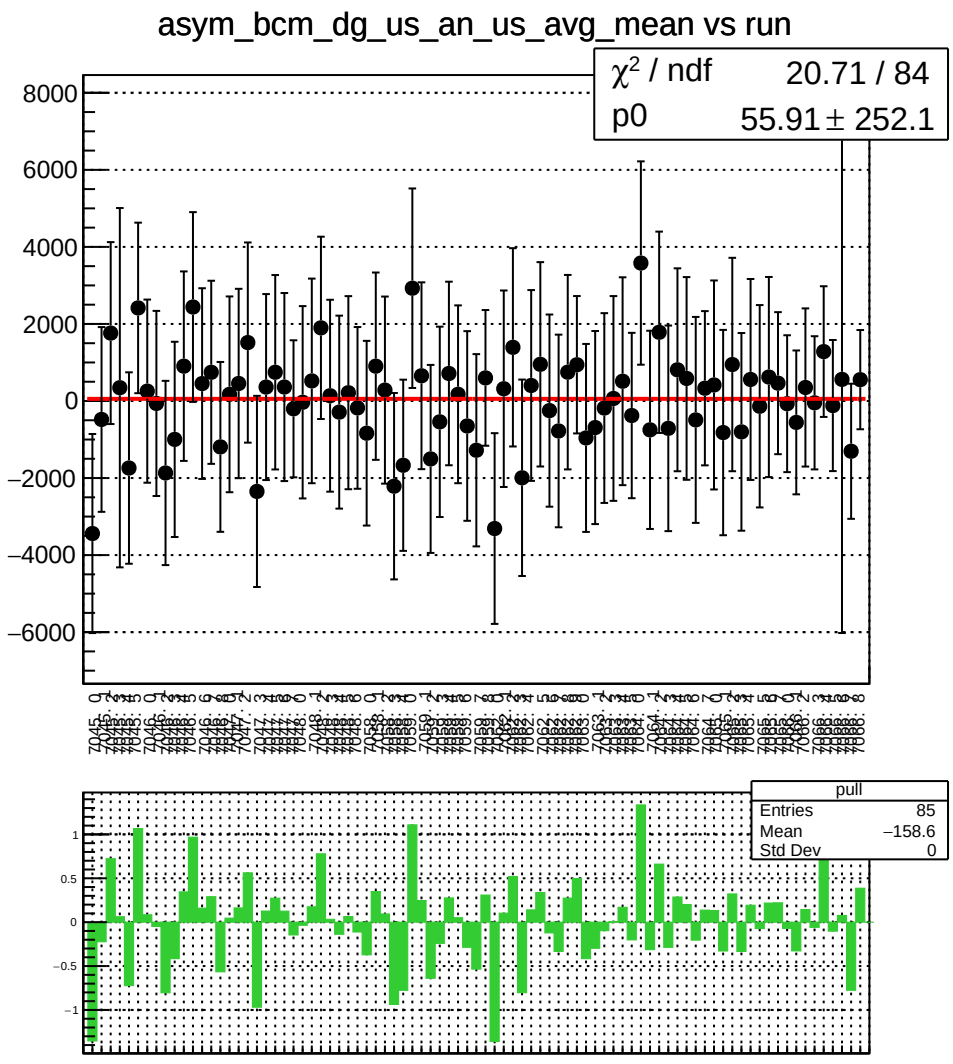

pull1D
Entries 85
Mean 0.0002953
Std Dev 0.4637

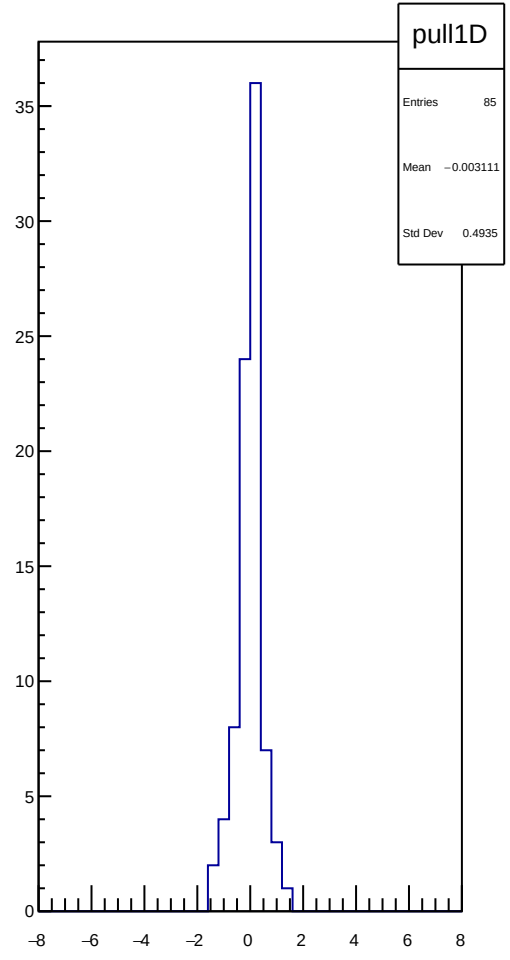

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 4.152e+04 / 84
p0 225.8 ± 0.1782
600
500
400
300
200

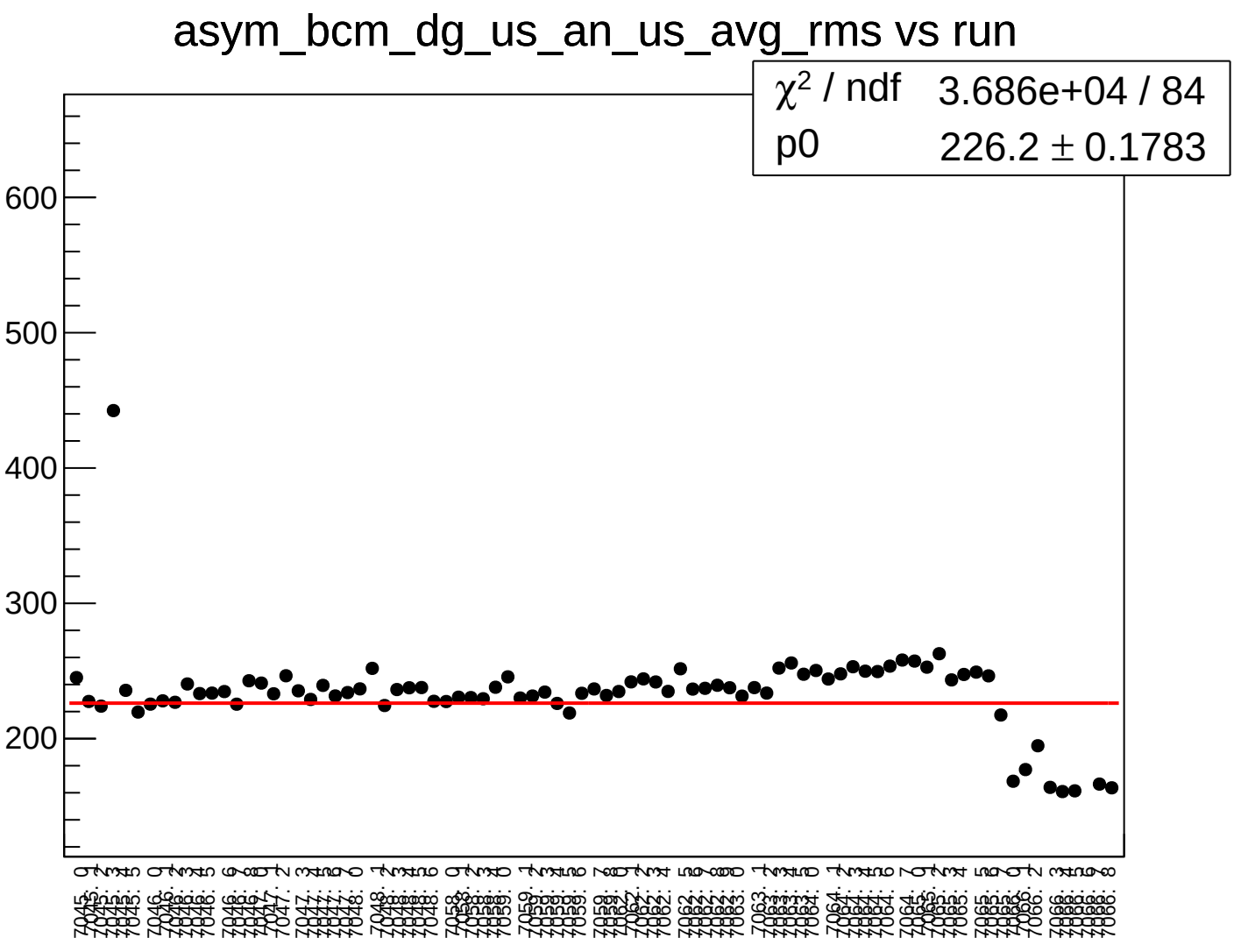

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 78.25 / 84
p0 −55.11 ± 33.33
pull
Entries 85
Mean −324.9
Std Dev 0

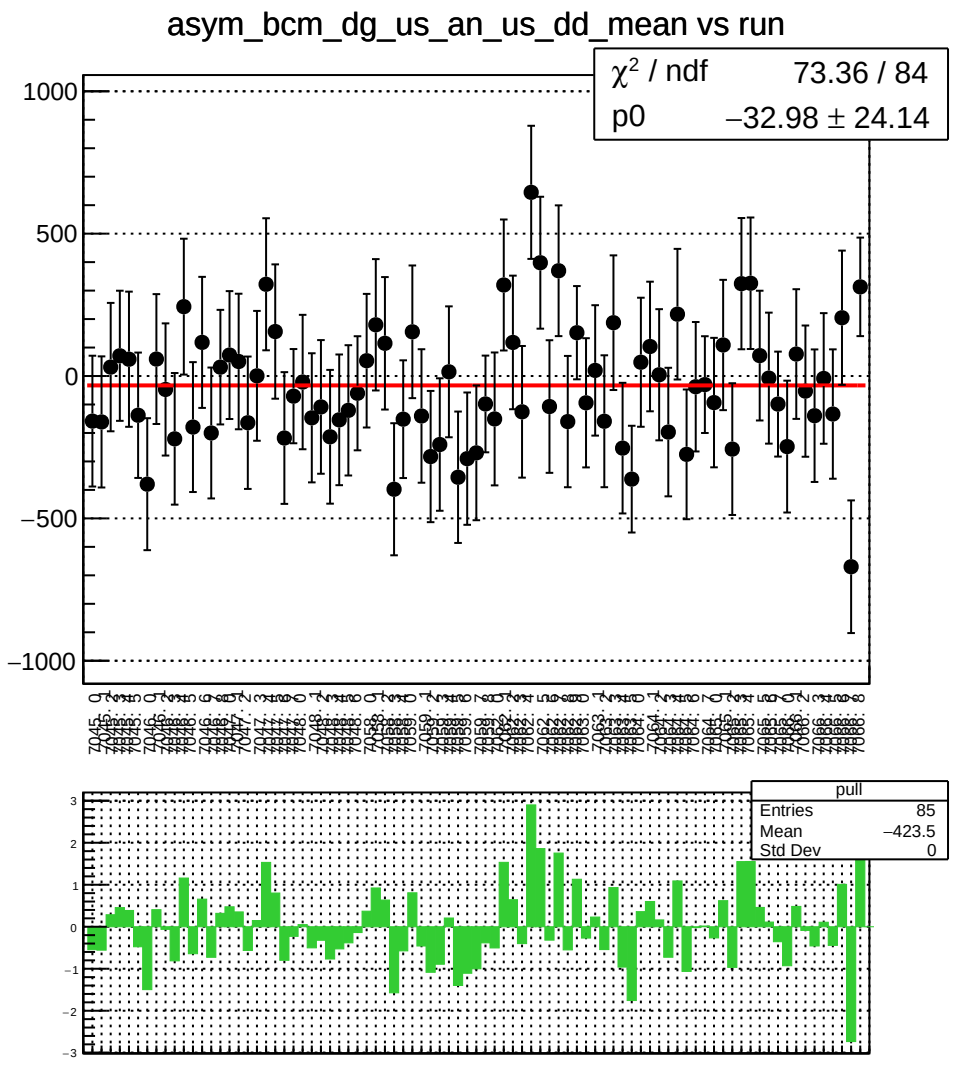

pull1D
Entries 85
Mean 0.006269
Std Dev 0.9595

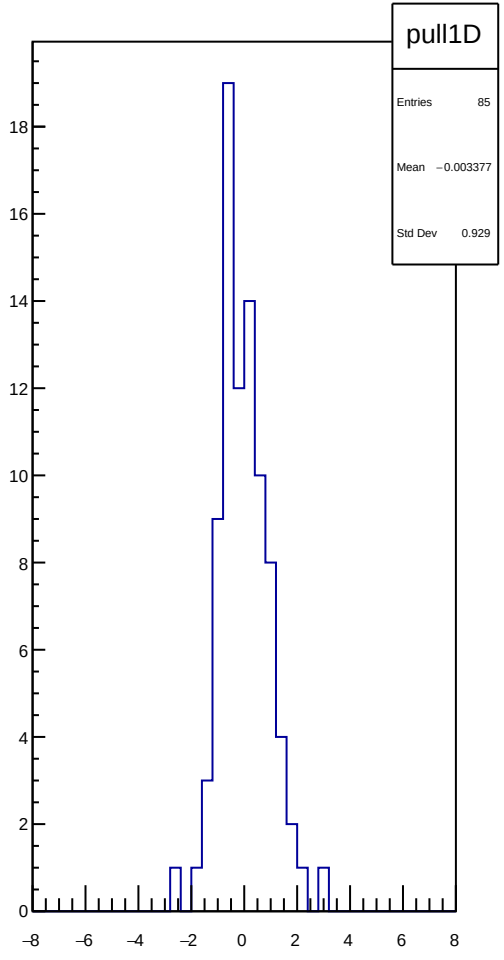

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2112 / 84
p0 30.23 ± 0.02357
36
35
34
33
32
31
30
29
28
27

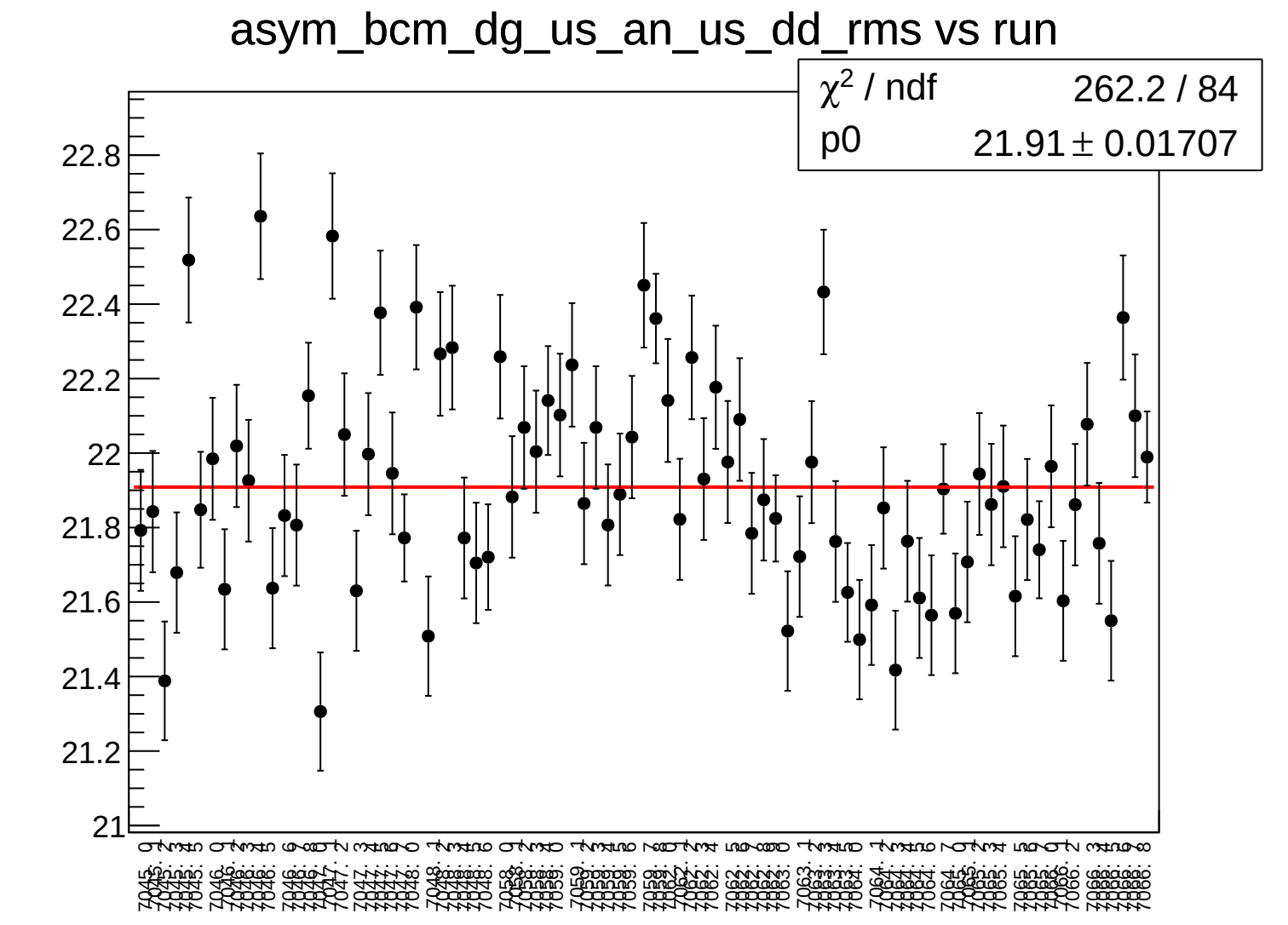

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 20.71 / 84
p0 55.91 ± 252.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −158.6
Std Dev 0
1
0.5
0
−0.5
−1

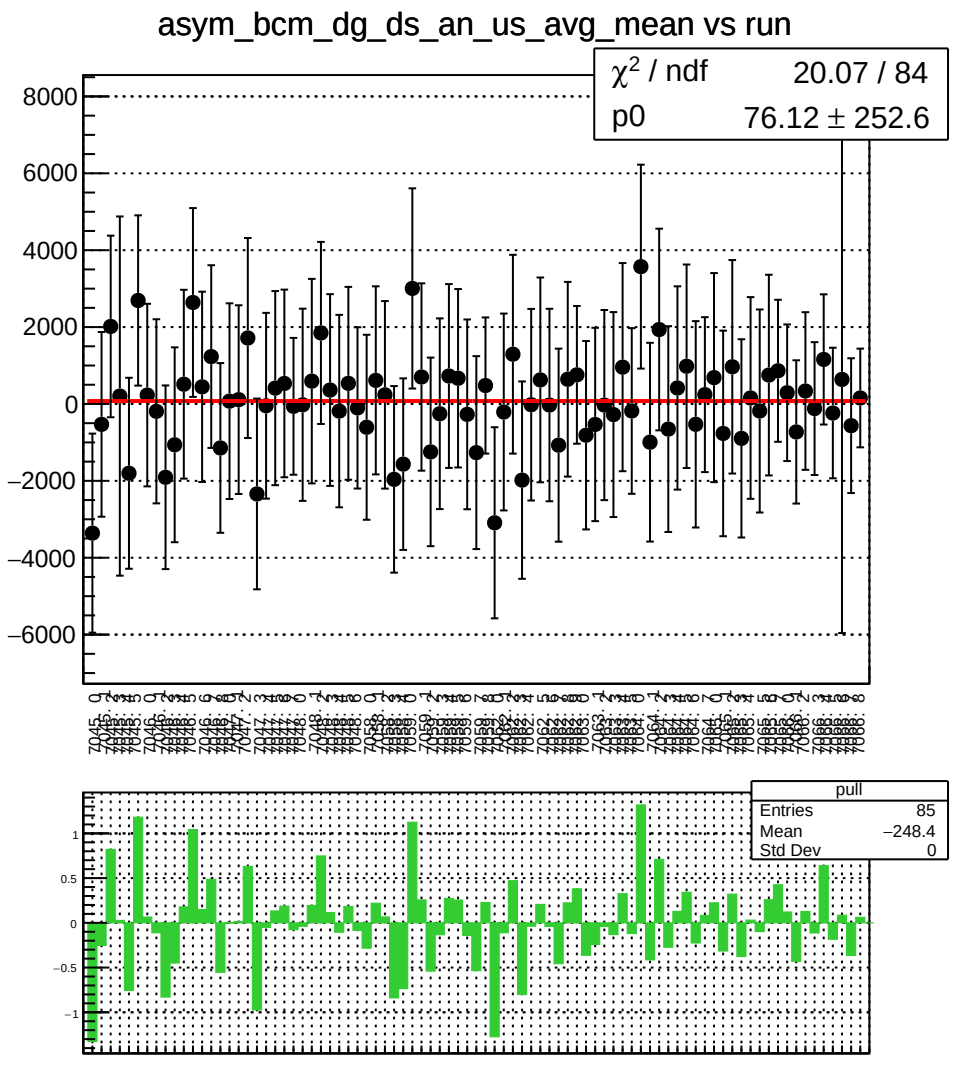

pull1D
Entries 85
Mean −0.003111
Std Dev 0.4935
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

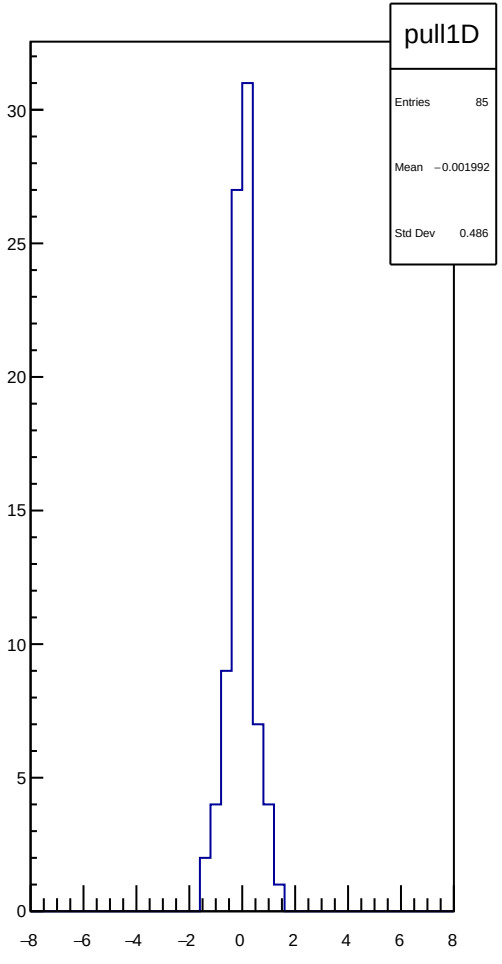

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.686e+04 / 84
p0 226.2 ± 0.1783
600
500
400
300
200

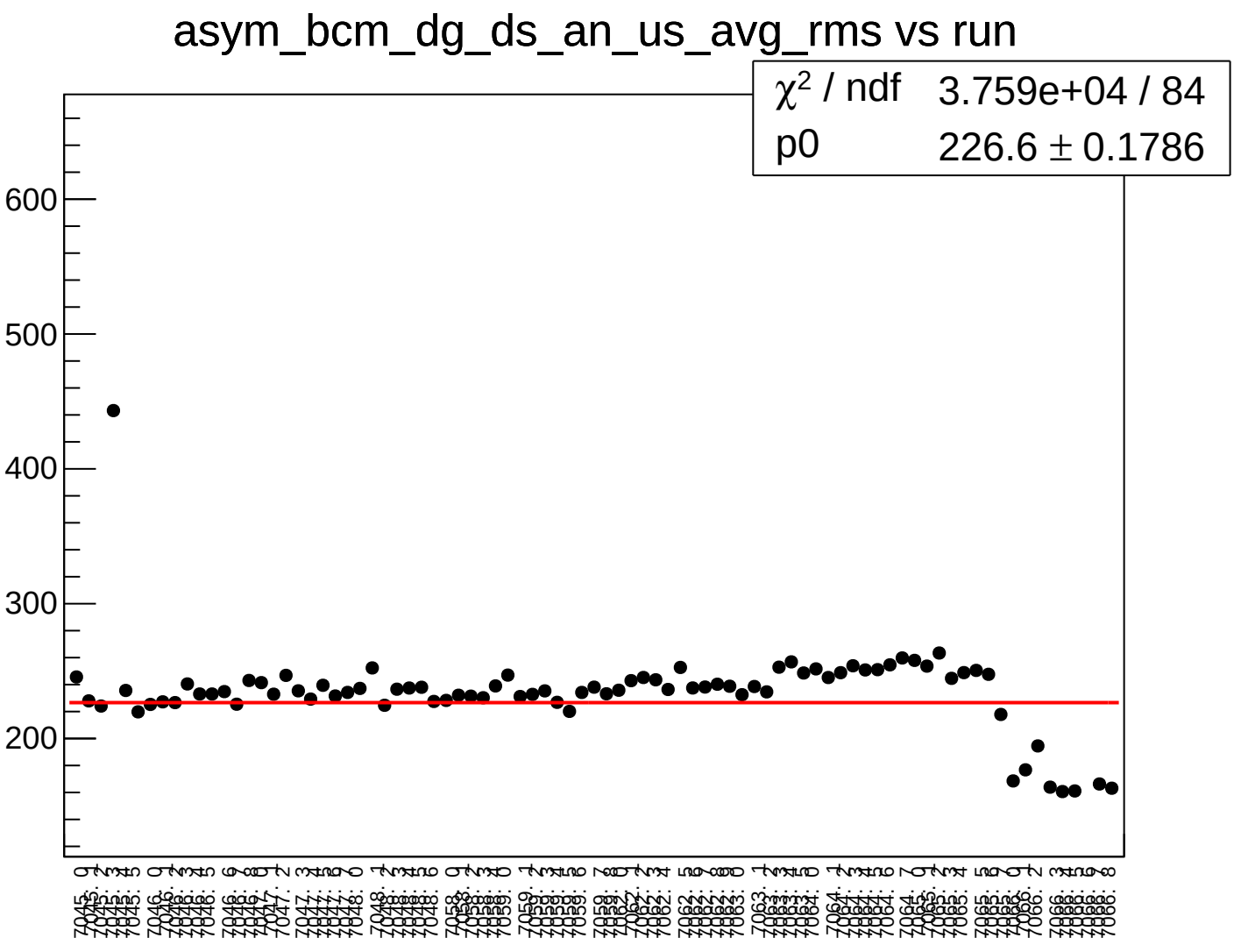

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 73.36 / 84
p0 −32.98 ± 24.14
1000
500
0
−500
−1000
pull
Entries 85
Mean −423.5
Std Dev 0
3
2
1
0
−1
−2
−3

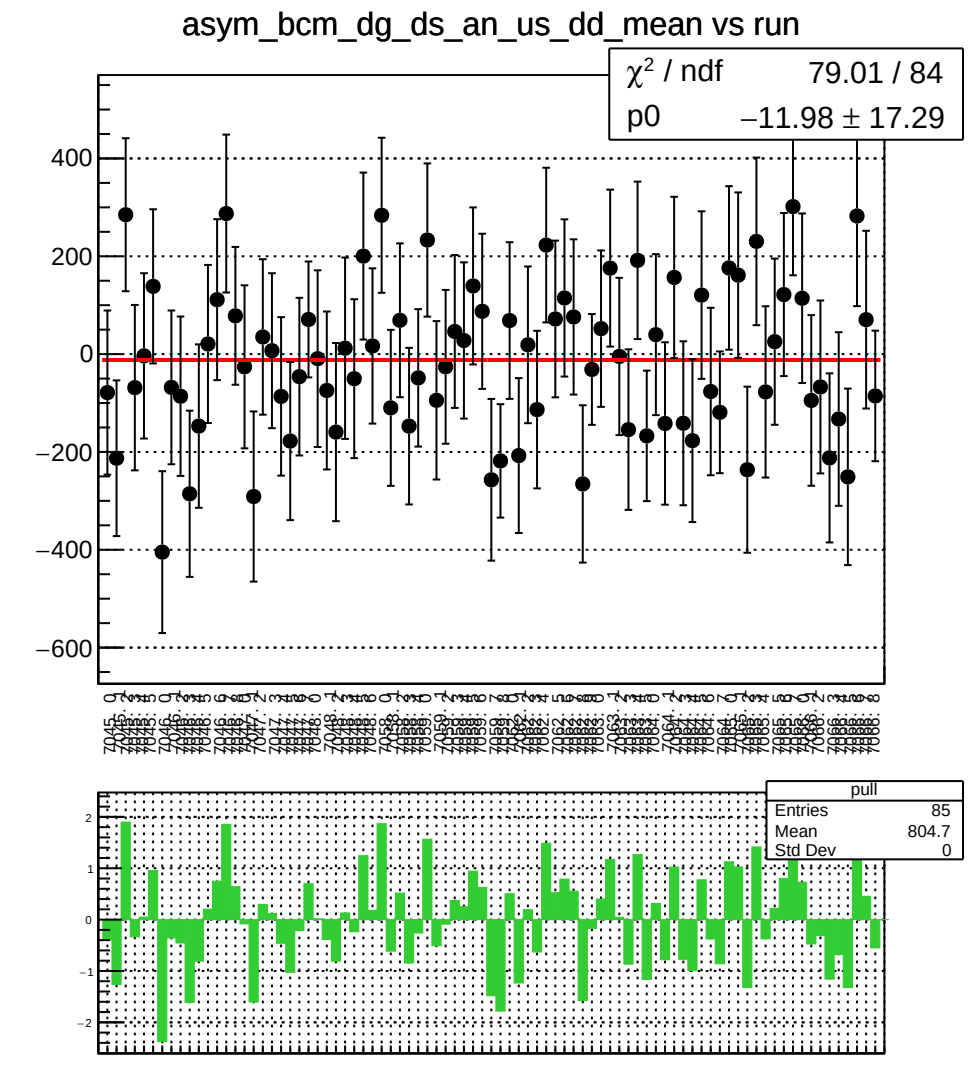

pull1D
Entries 85
Mean −0.003377
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

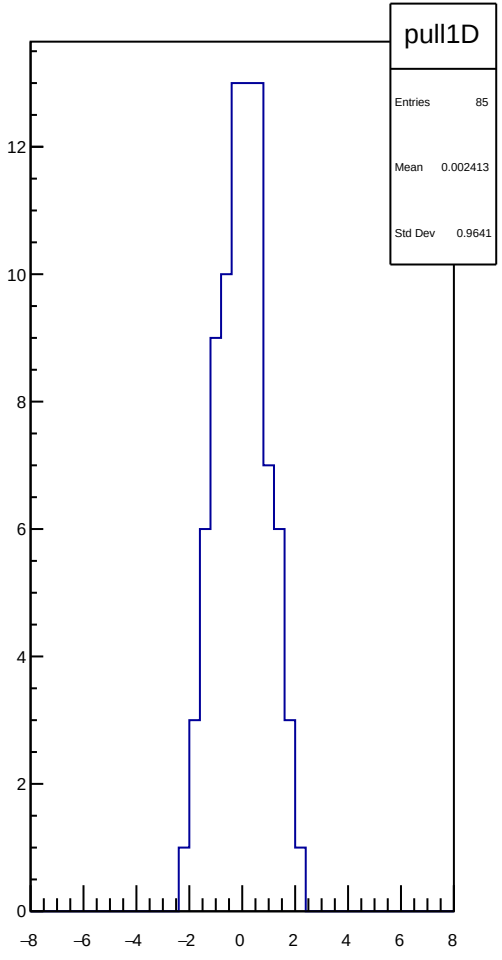

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 262.2 / 84
p0 21.91 ± 0.01707
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21

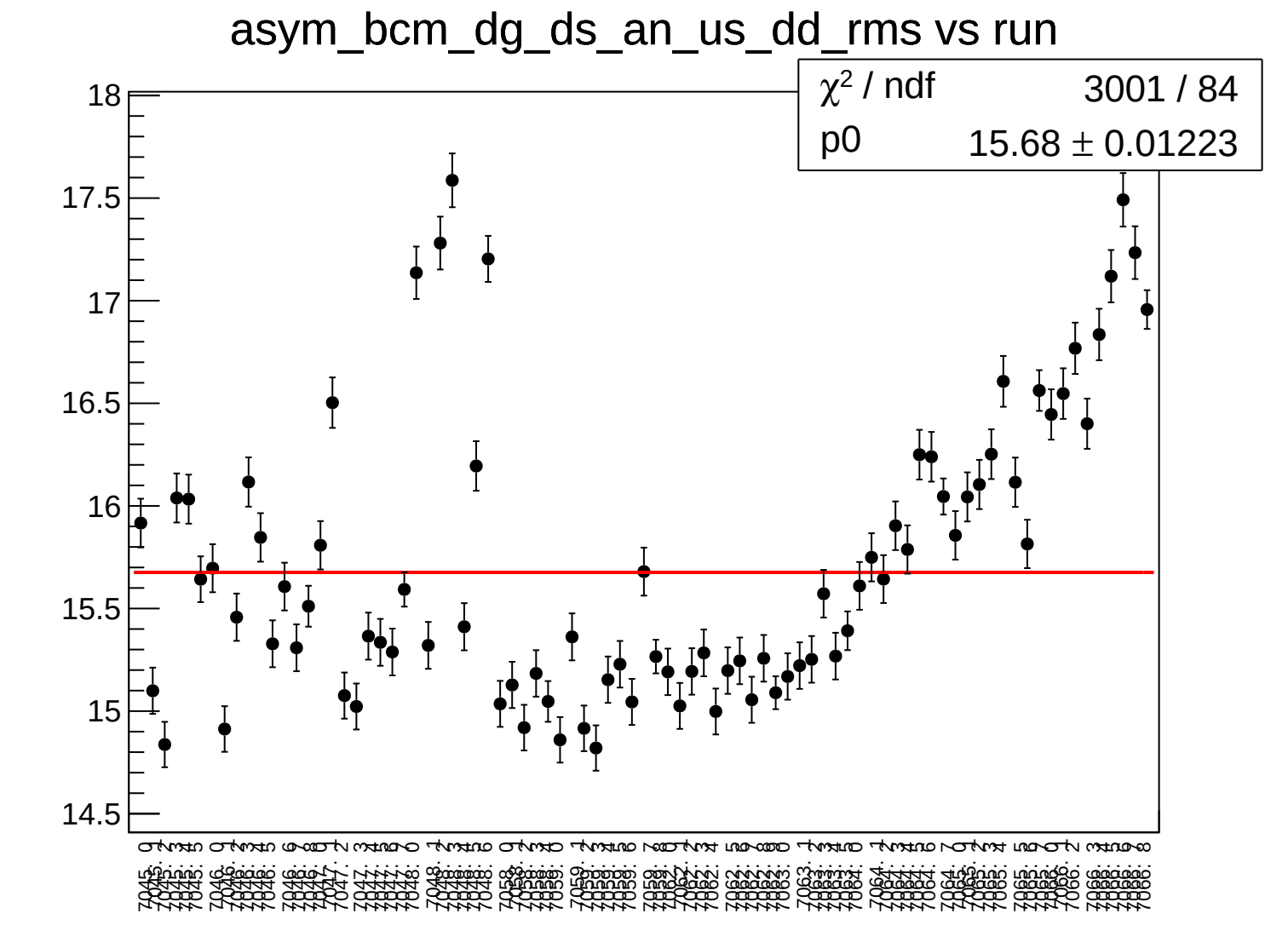

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 20.07 / 84
p0 76.12 ± 252.6
pull
Entries 85
Mean −248.4
Std Dev 0

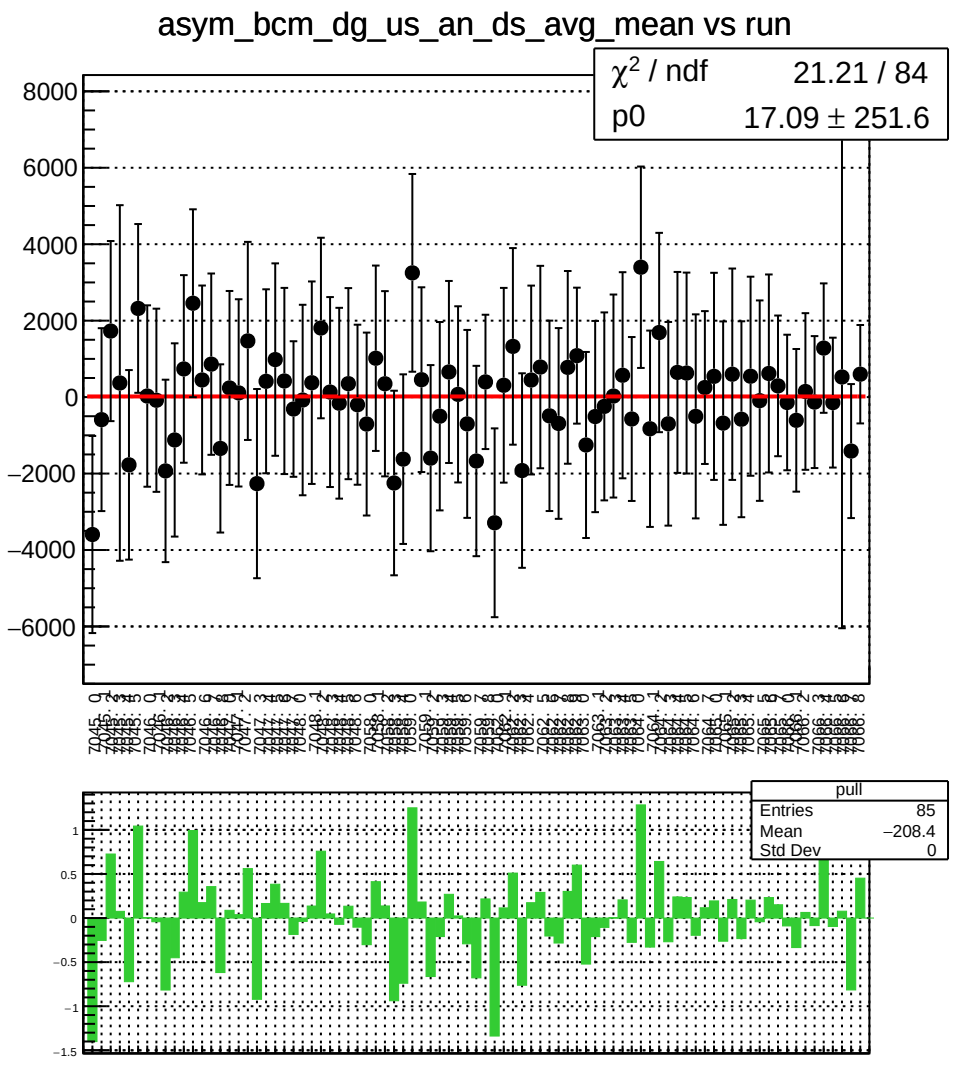

pull1D
Entries 85
Mean −0.001992
Std Dev 0.486

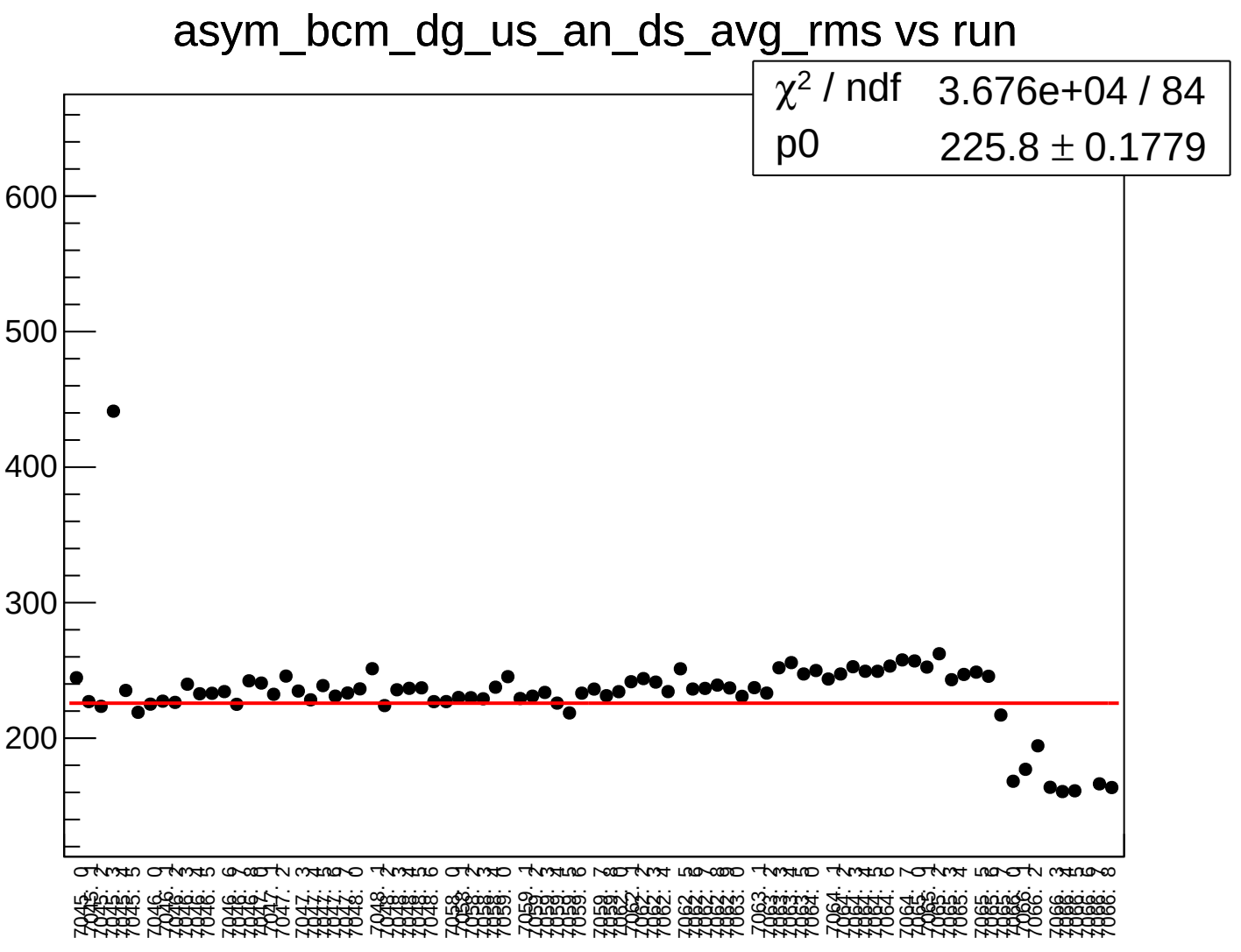

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.759e+04 / 84
p0 226.6 ± 0.1786
600
500
400
300
200

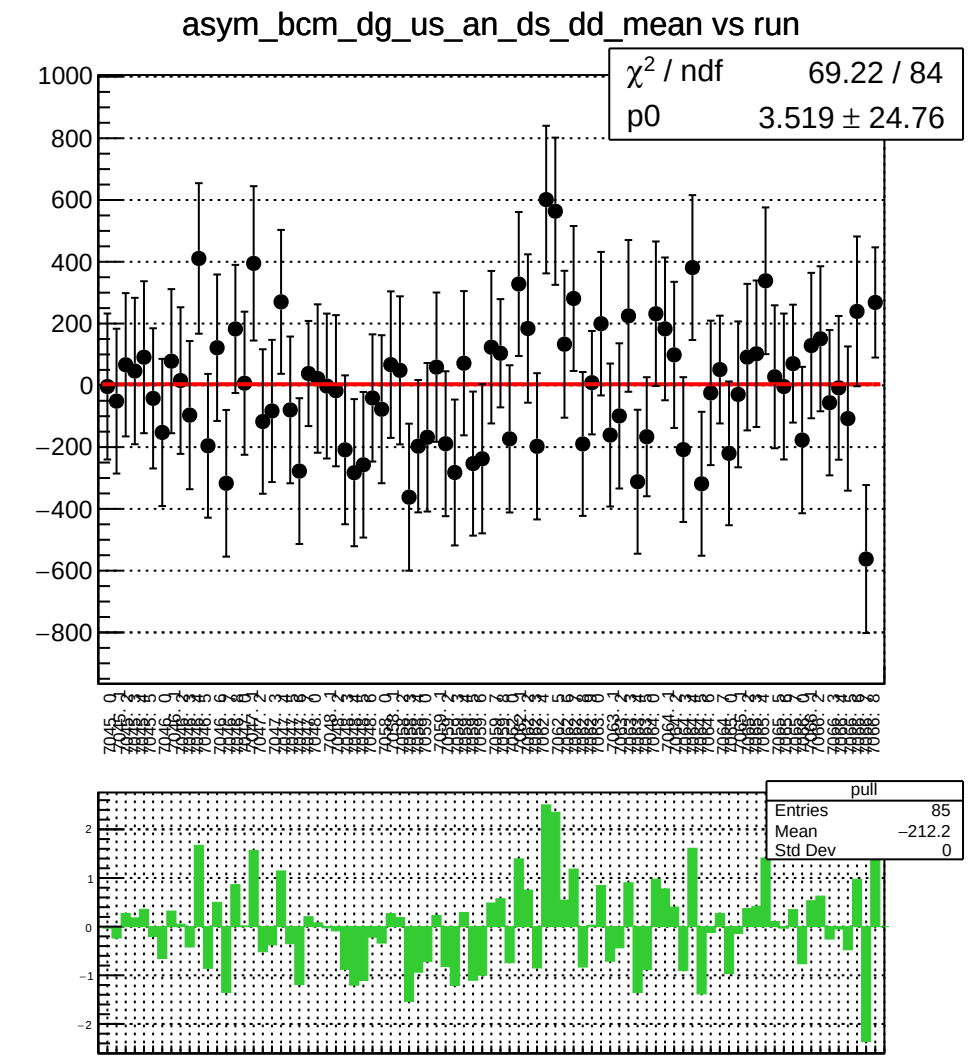

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 79.01 / 84
p0 −11.98 ± 17.29
400
200
0
−200
−400
−600
pull
Entries 85
Mean 804.7
Std Dev 0
2
1
0
−1
−2

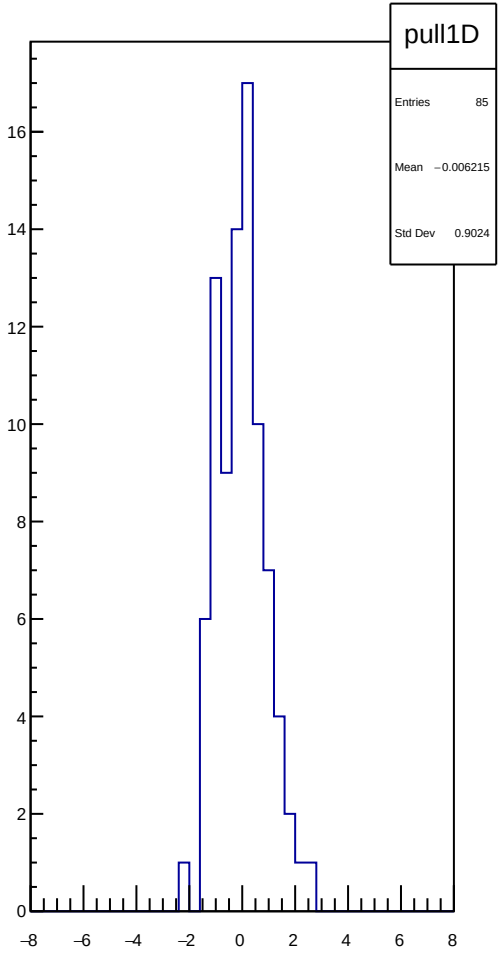

pull1D
Entries 85
Mean 0.002413
Std Dev 0.9641
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

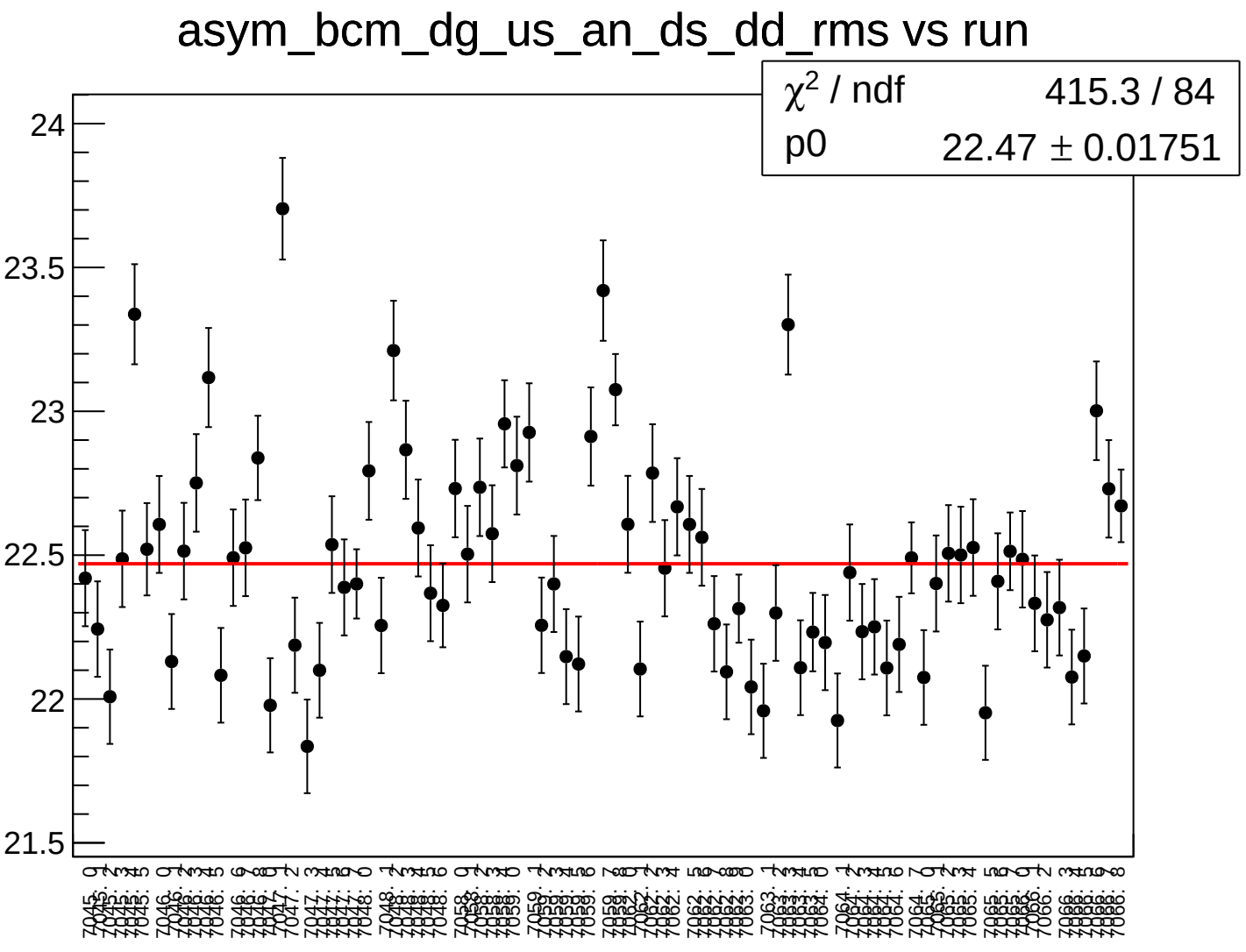

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3001 / 84
p0 15.68 ± 0.01223
18
17.5
17
16.5
16
15.5
15
14.5

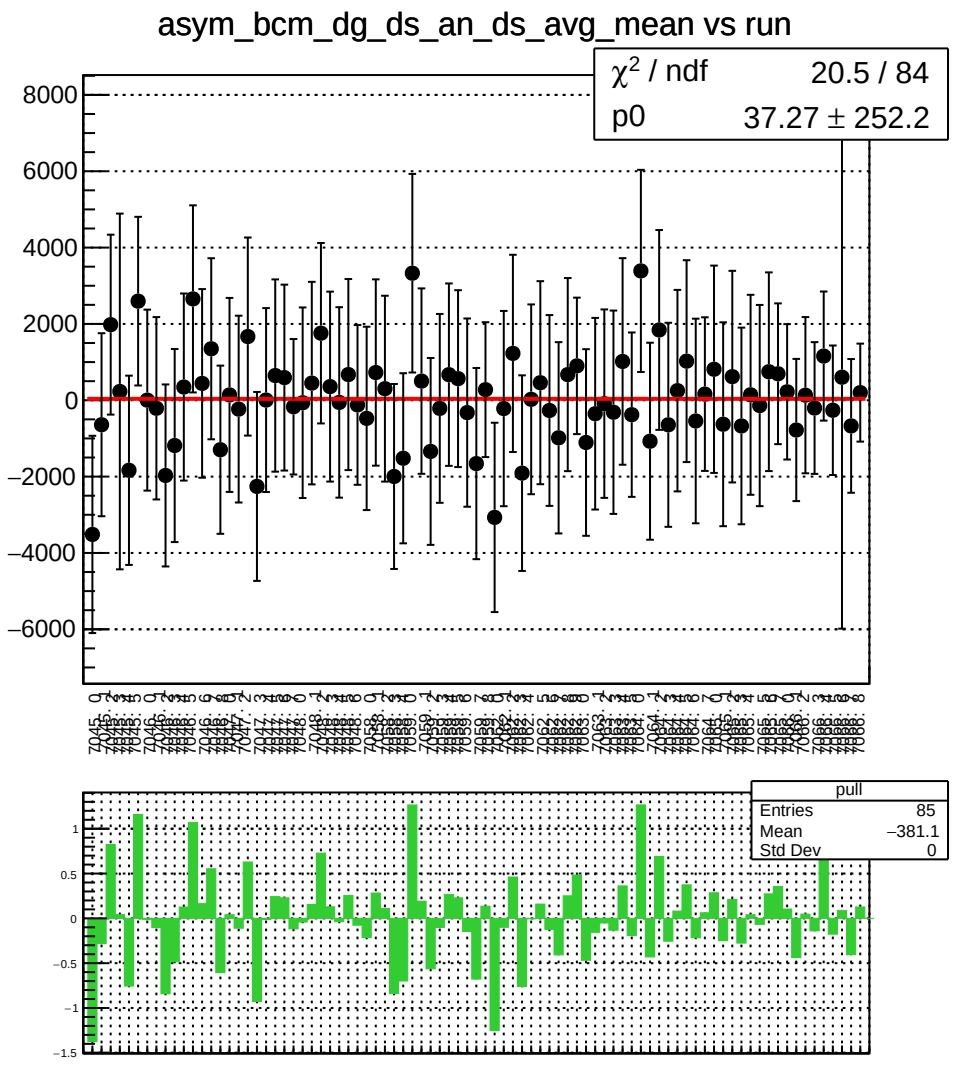

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 21.21 / 84
p0 17.09 ± 251.6
pull
Entries 85
Mean −208.4
Std Dev 0
pull1D
Entries 85
Mean −0.002485
Std Dev 0.4996

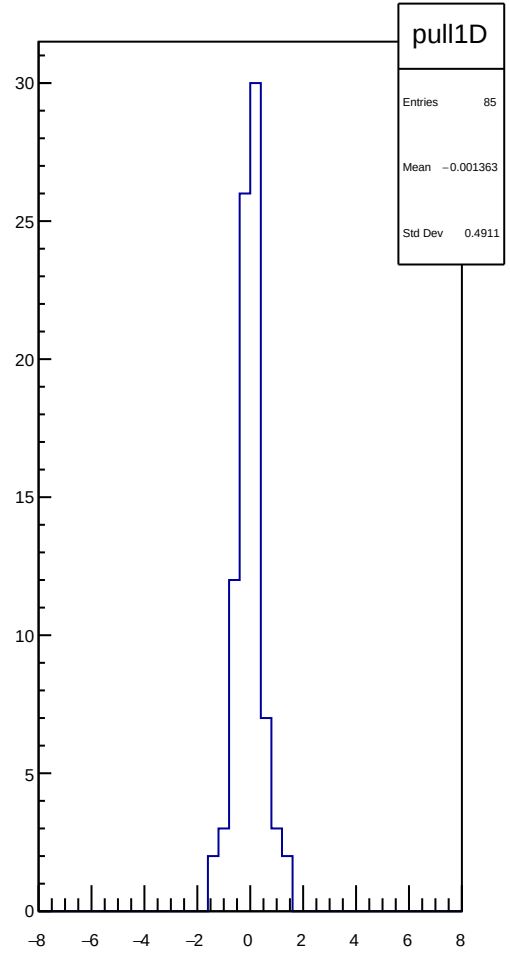

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.676e+04 / 84
p0 225.8 ± 0.1779
600
500
400
300
200

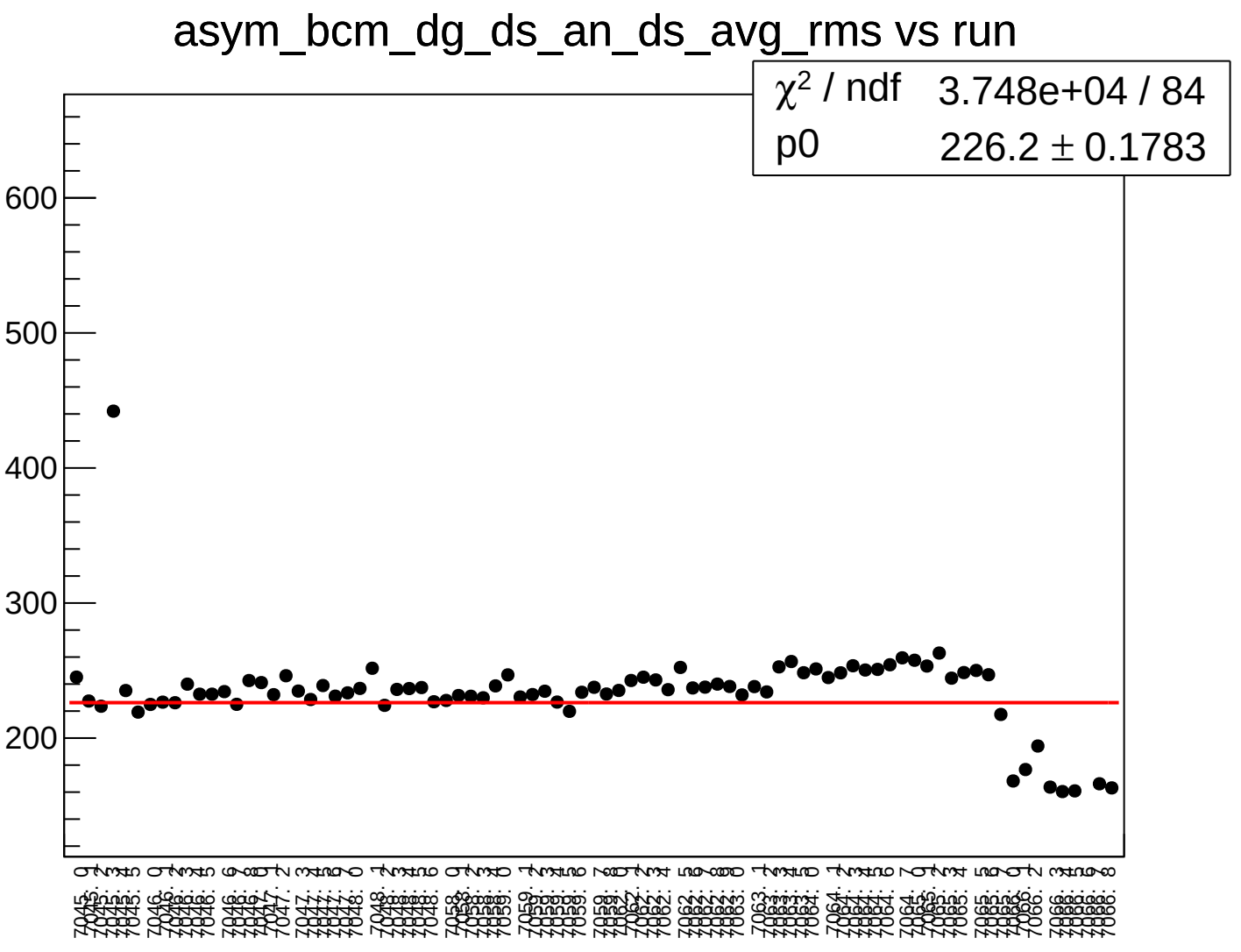

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 69.22 / 84
p0 3.519 ± 24.76
pull
Entries 85
Mean −212.2
Std Dev 0

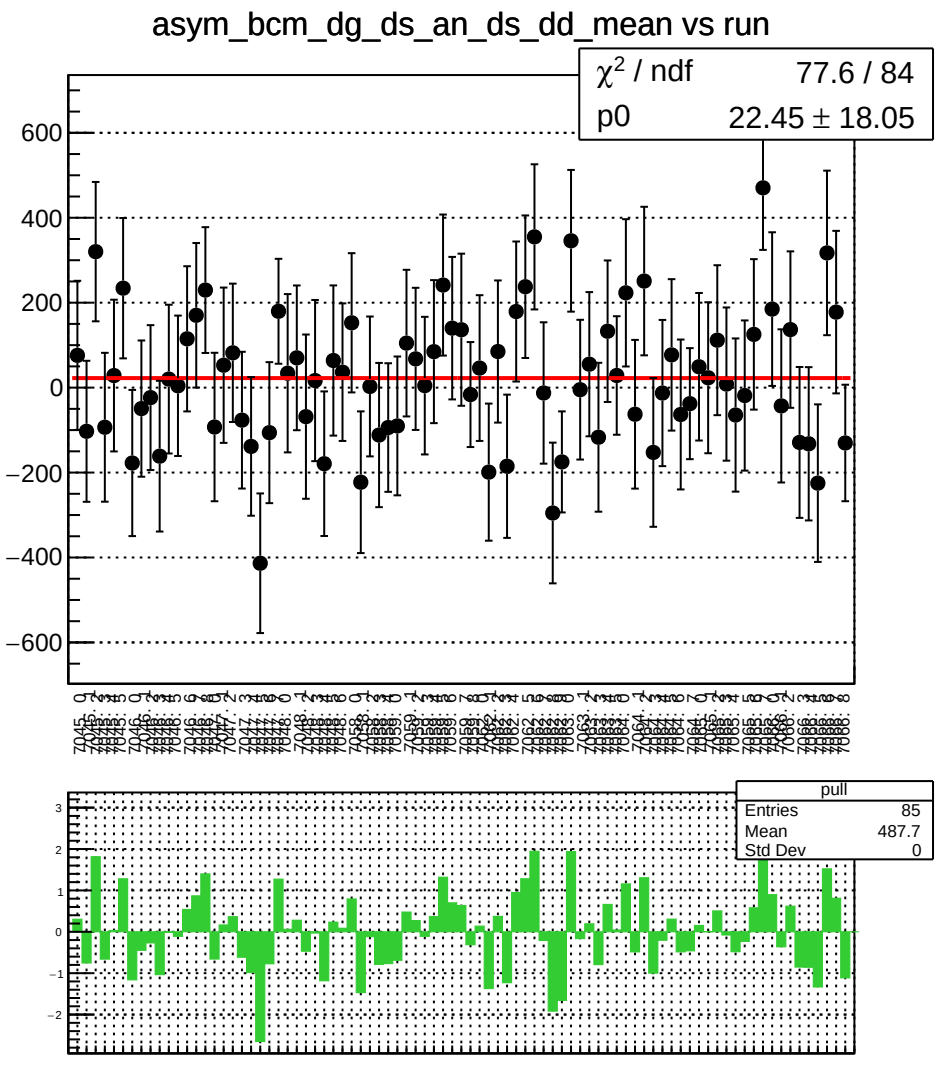

pull1D
Entries 85
Mean −0.006215
Std Dev 0.9024

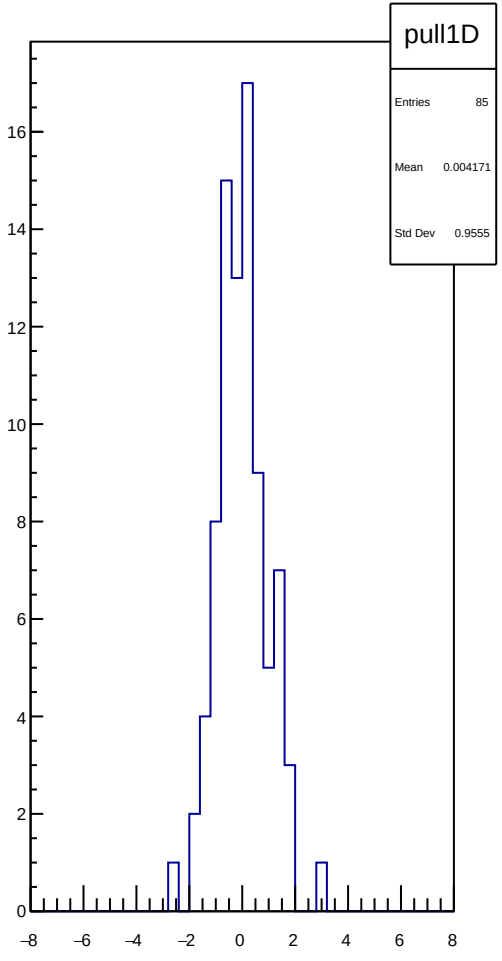

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 415.3 / 84
p0 22.47 ± 0.01751
24
23.5
23
22.5
22
21.5

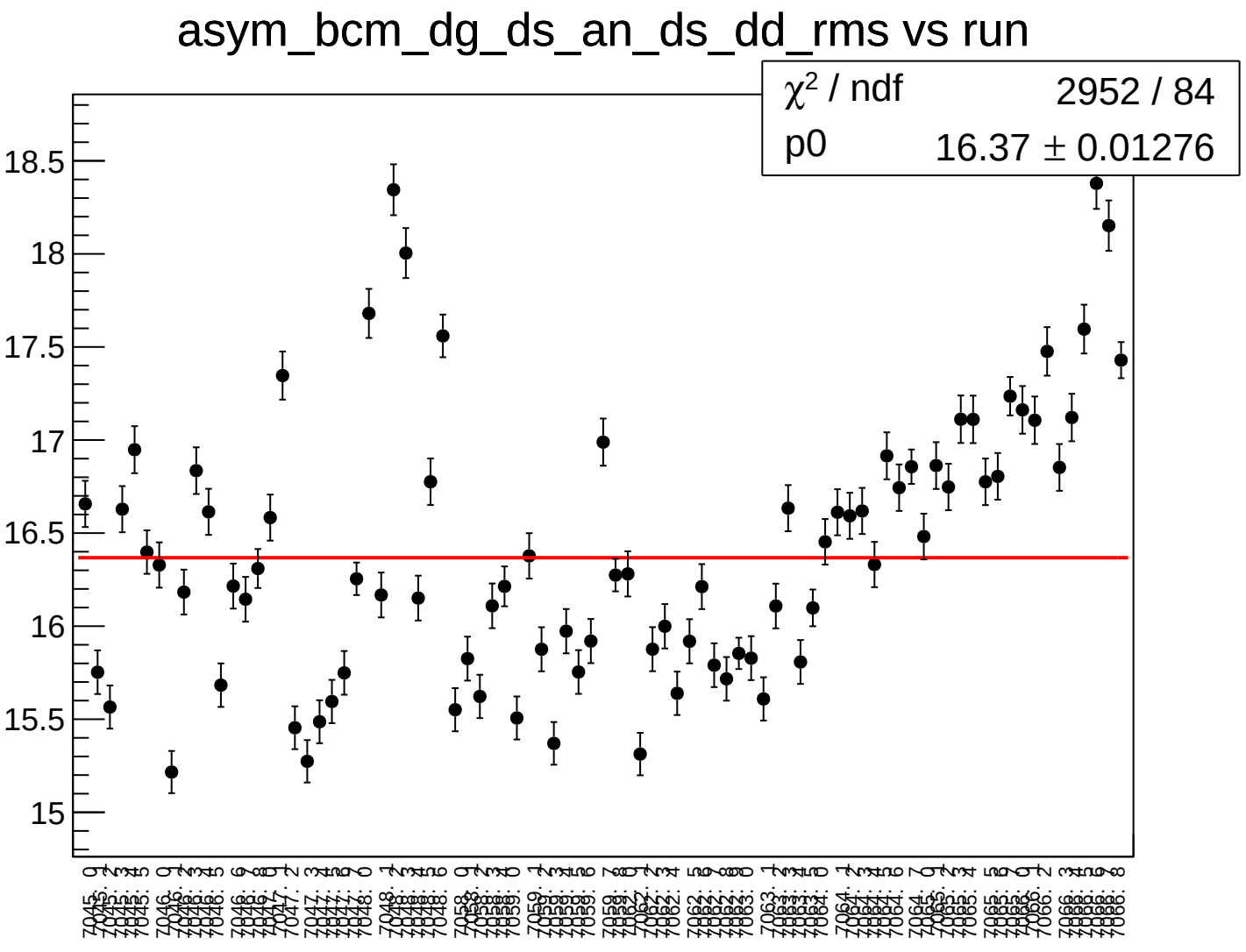

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 20.5 / 84
p0 37.27 ± 252.2
pull
Entries 85
Mean −381.1
Std Dev 0

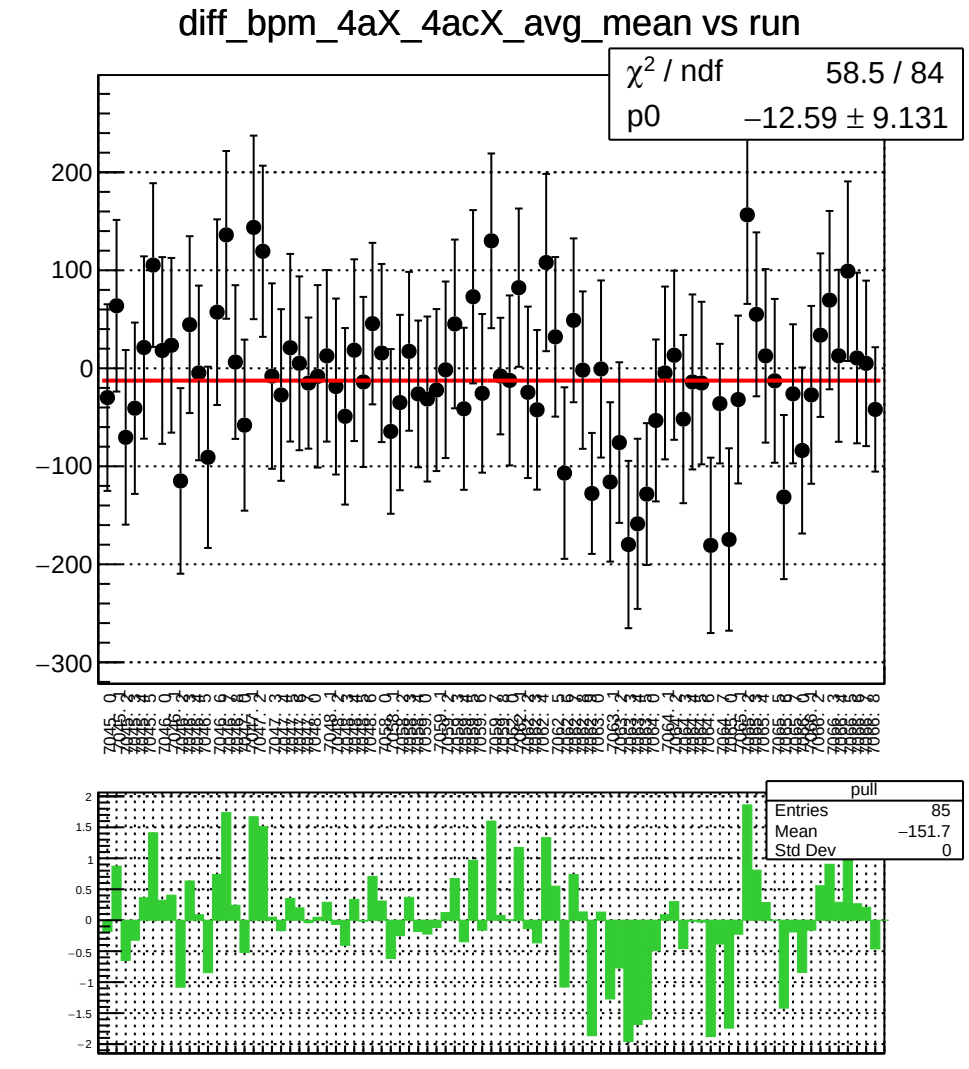

pull1D
Entries 85
Mean −0.001363
Std Dev 0.4911

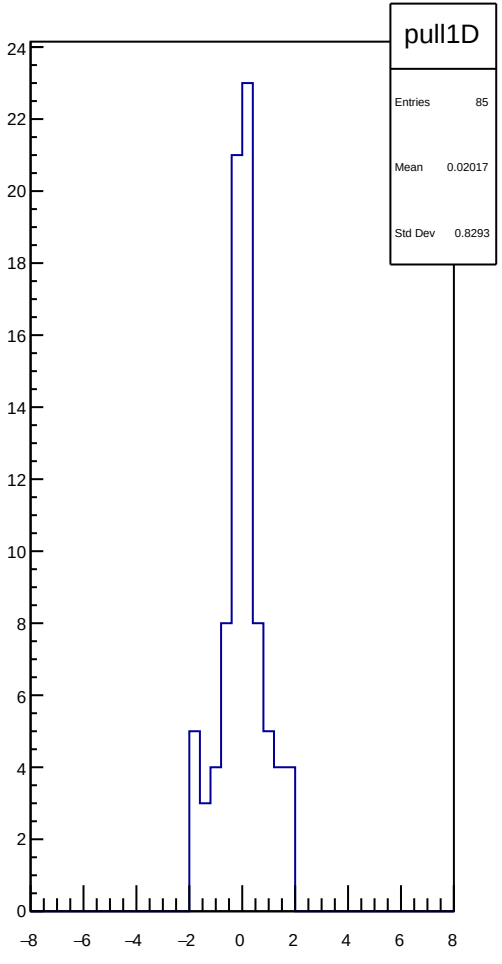

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.748e+04 / 84
p0 226.2 ± 0.1783
600
500
400
300
200

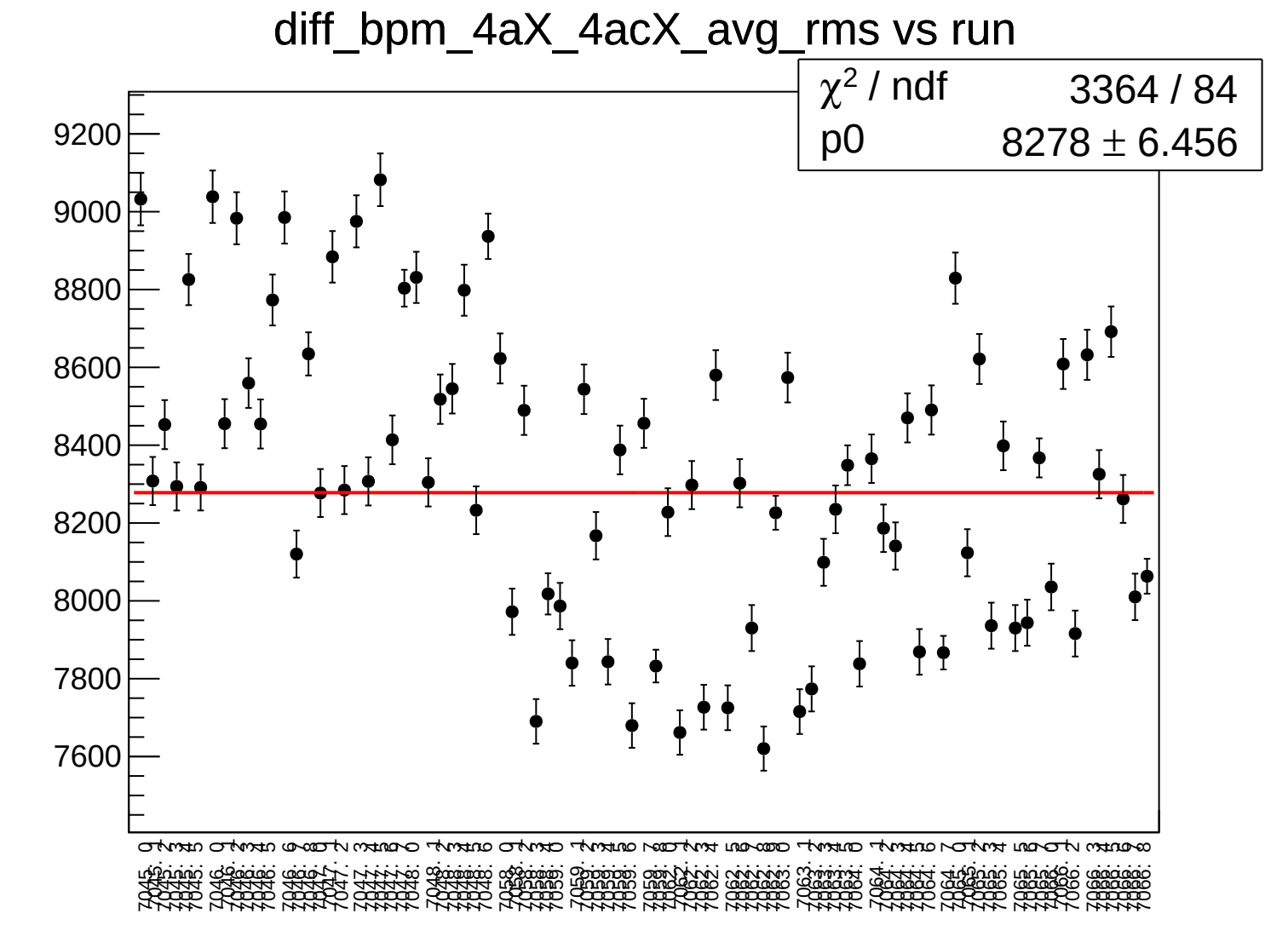

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 77.6 / 84
p0 22.45 ± 18.05
pull
Entries 85
Mean 487.7
Std Dev 0

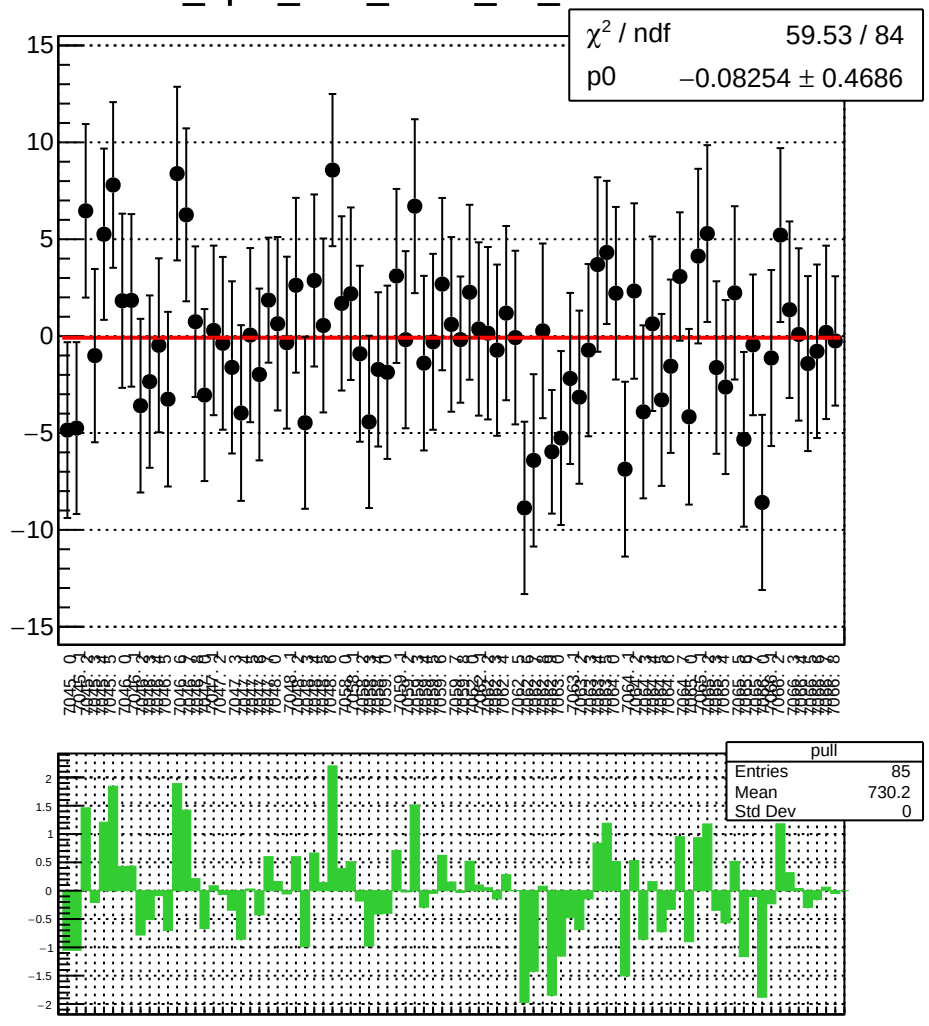

pull1D
Entries 85
Mean 0.004171
Std Dev 0.9555

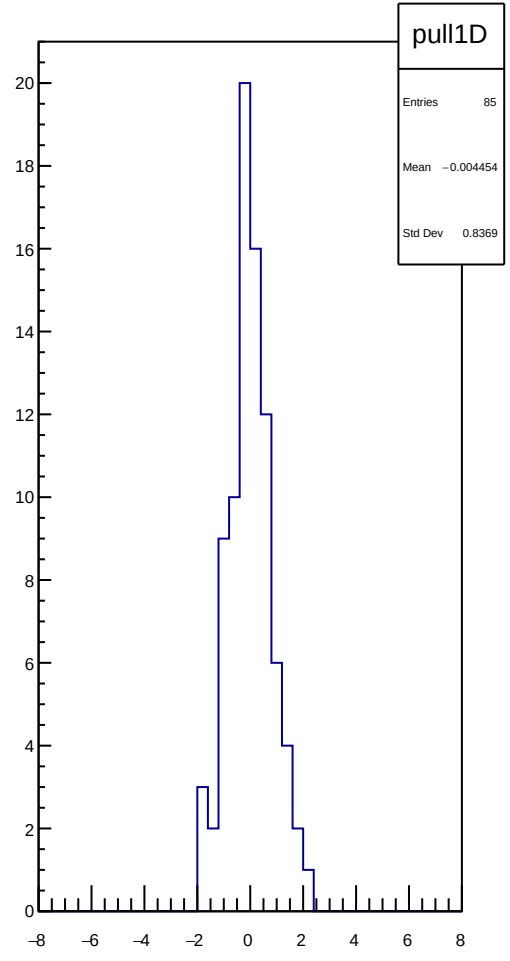

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2952 / 84
p0 16.37 ± 0.01276
18.5
18
17.5
17
16.5
16
15.5
15

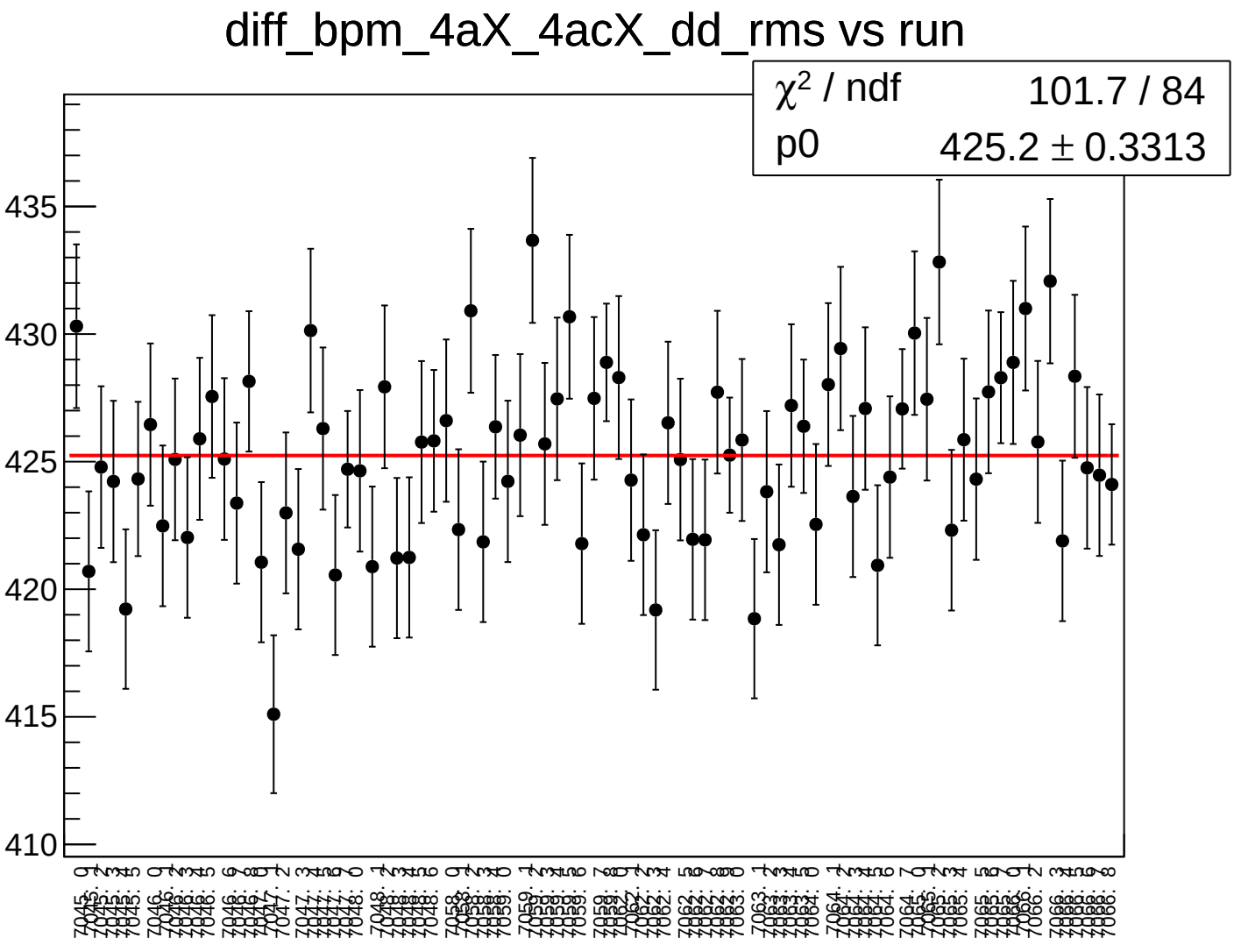

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 58.5 / 84
p0 −12.59 ± 9.131
pull
Entries 85
Mean −151.7
Std Dev 0

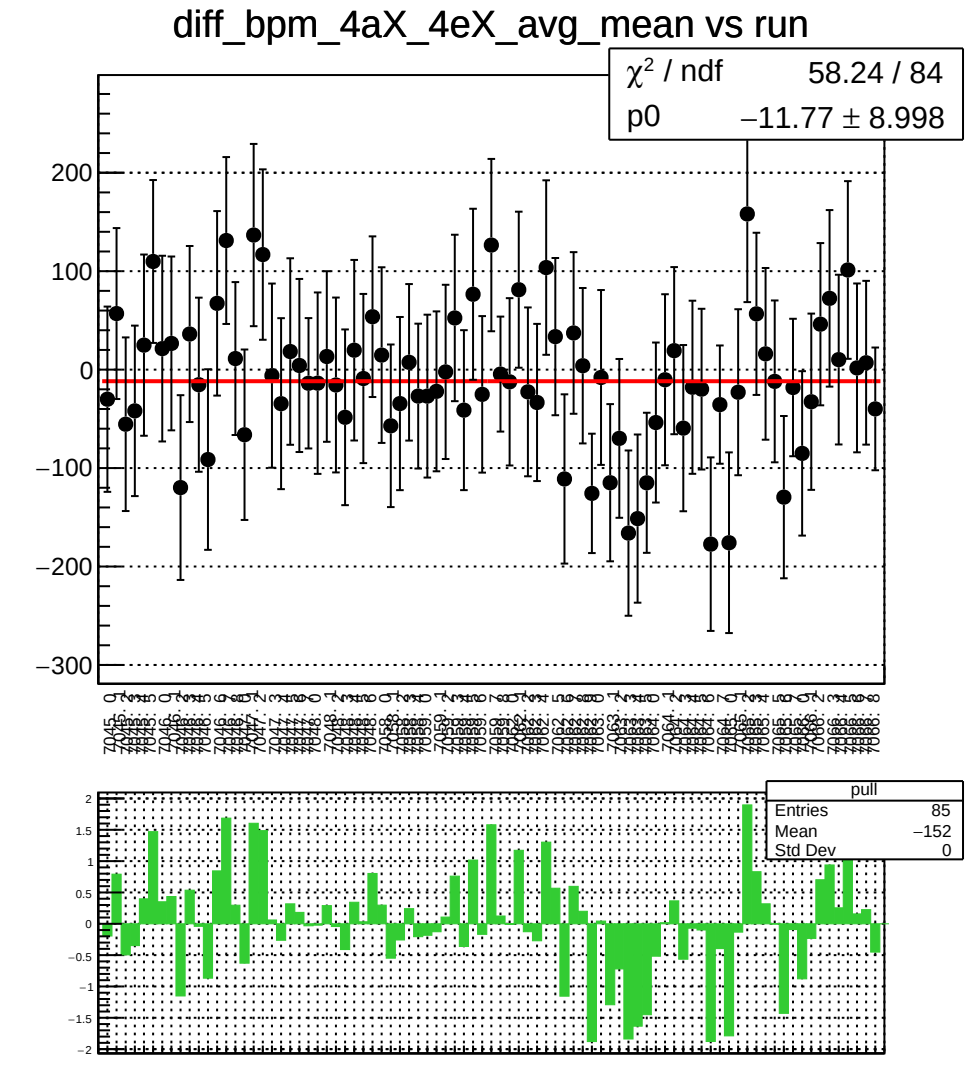

pull1D
Entries 85
Mean 0.02017
Std Dev 0.8293

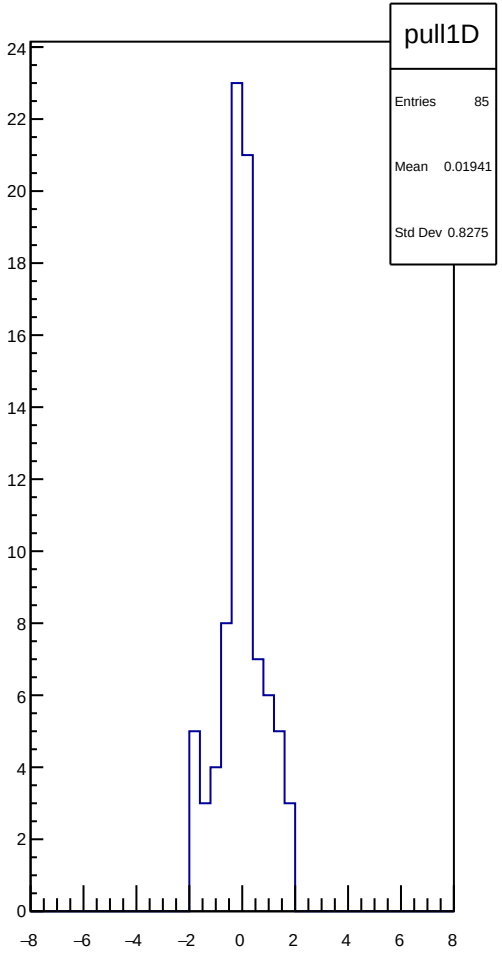

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3364 / 84
p0 8278 ± 6.456
9200
9000
8800
8600
8400
8200
8000
7800
7600

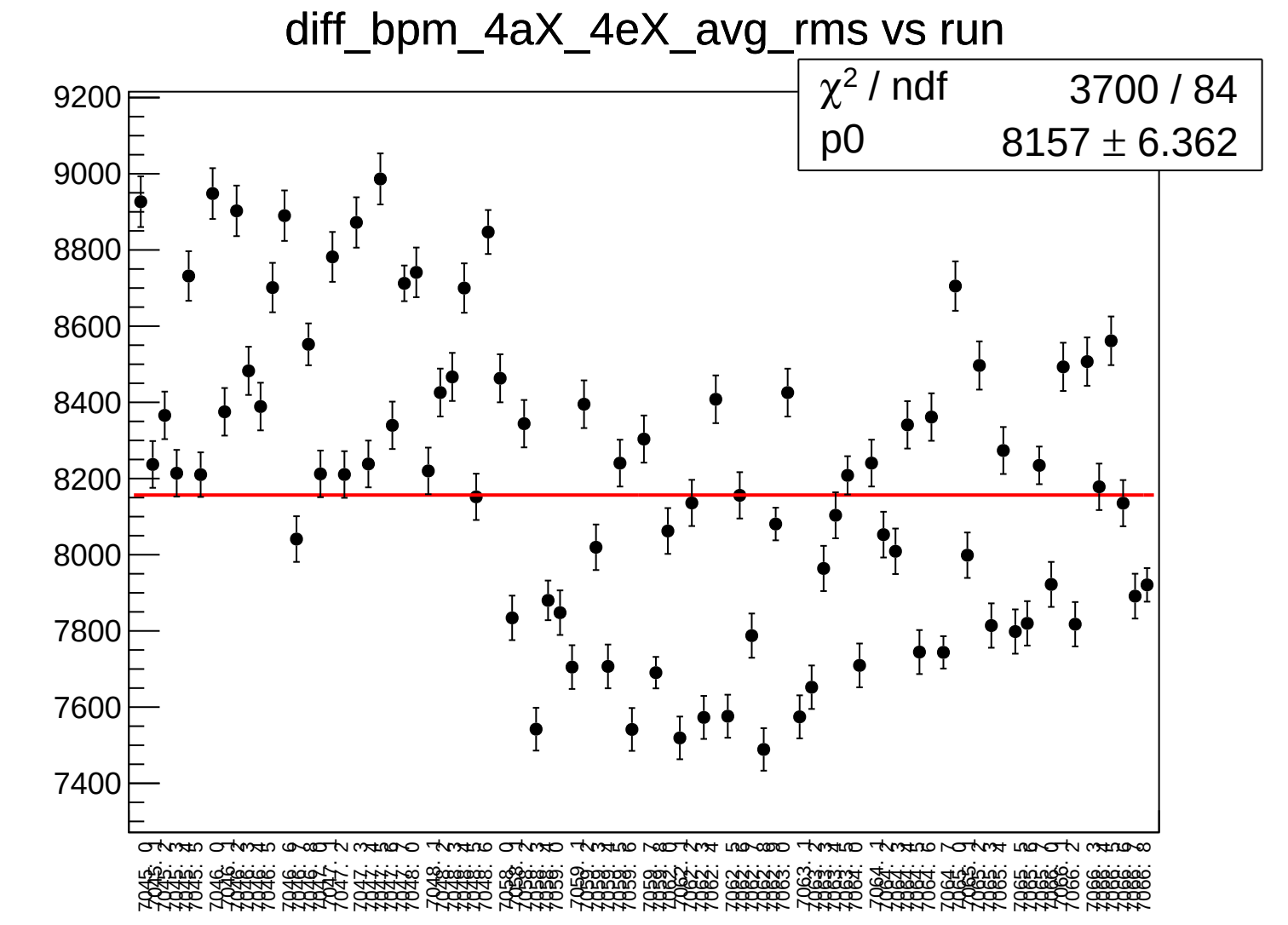

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 59.53 / 84
p0 −0.08254 ± 0.4686
pull
Entries 85
Mean 730.2
Std Dev 0

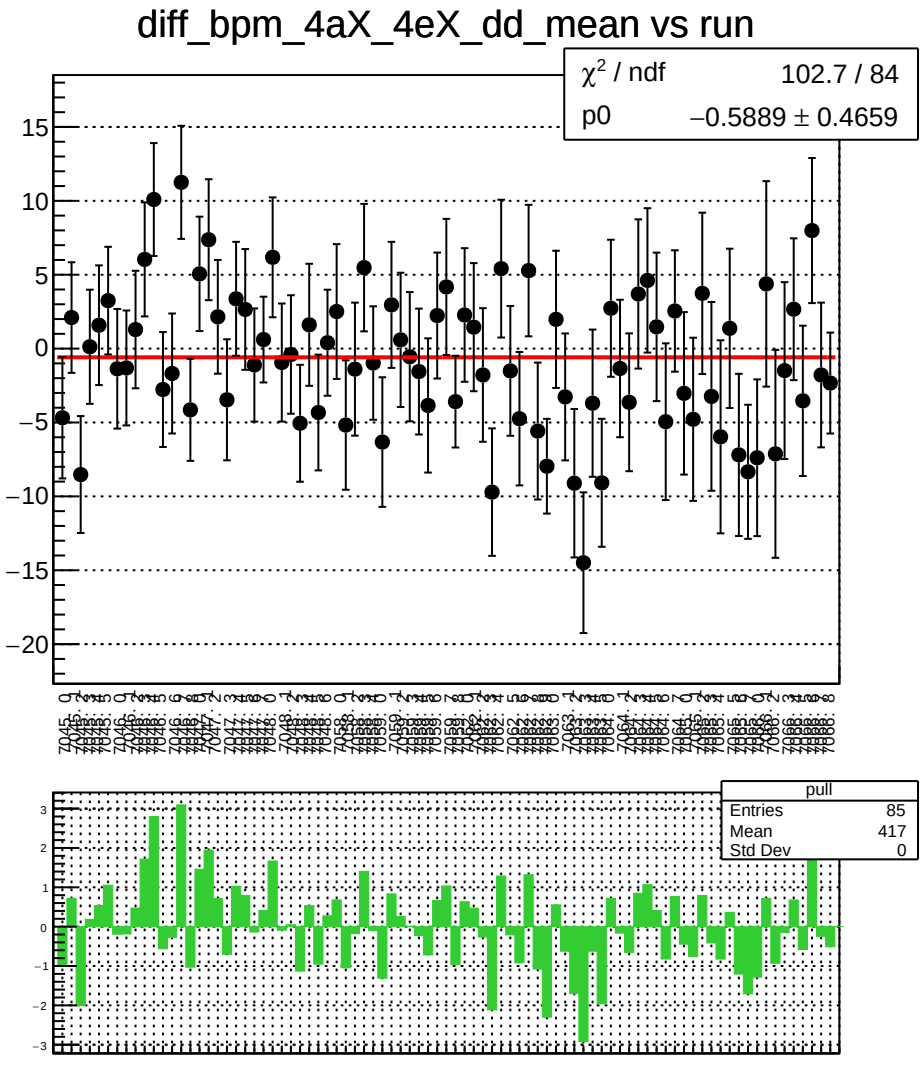

pull1D
Entries 85
Mean −0.004454
Std Dev 0.8369

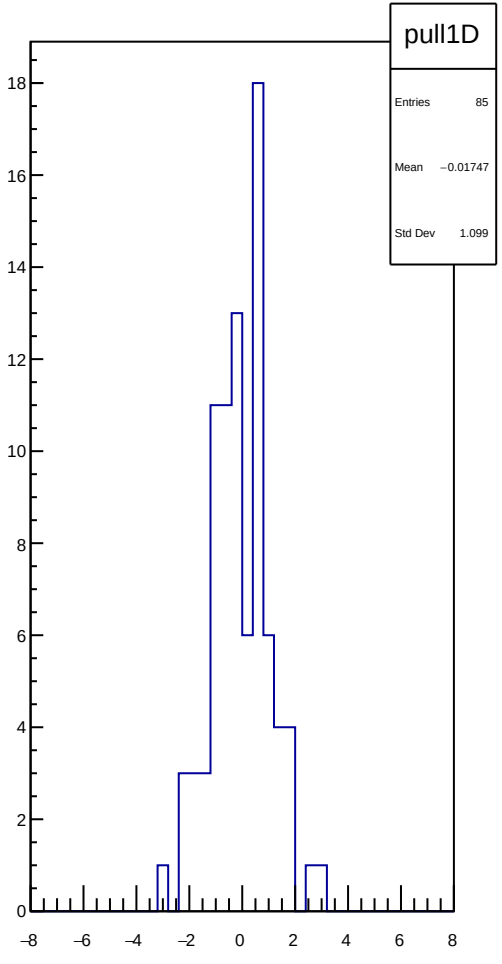

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 101.7 / 84
p0 425.2 ± 0.3313
435
430
425
420
415
410

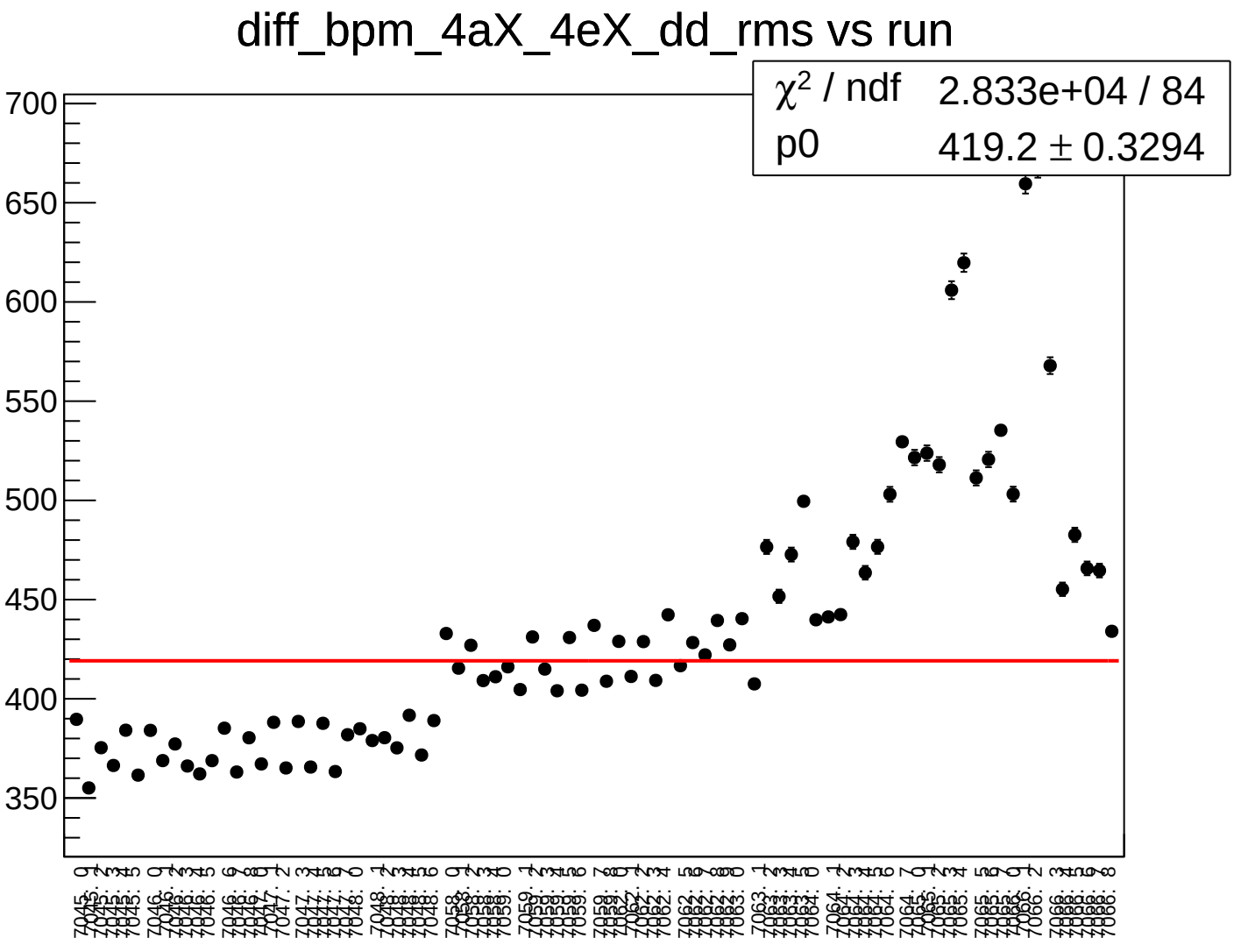

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 58.24 / 84
p0 −11.77 ± 8.998
pull
Entries 85
Mean −152
Std Dev 0

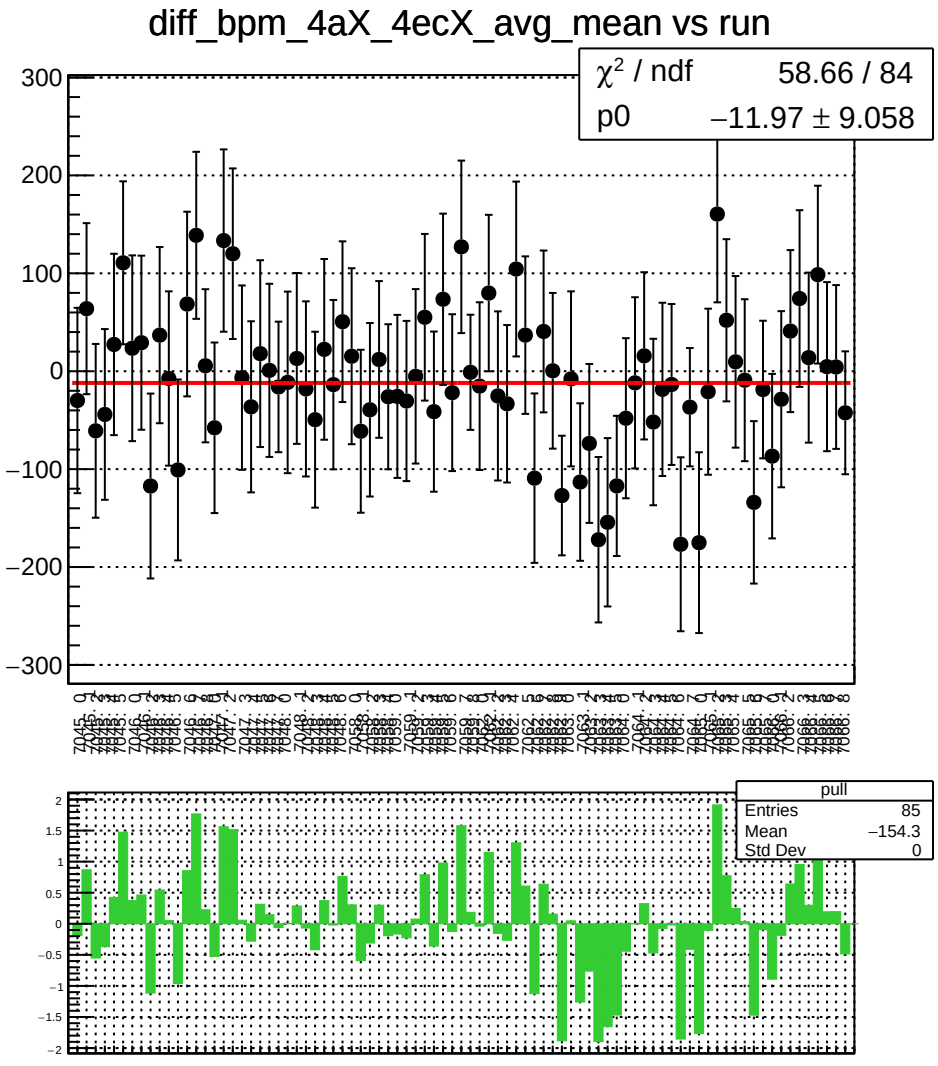

pull1D
Entries 85
Mean 0.01941
Std Dev 0.8275

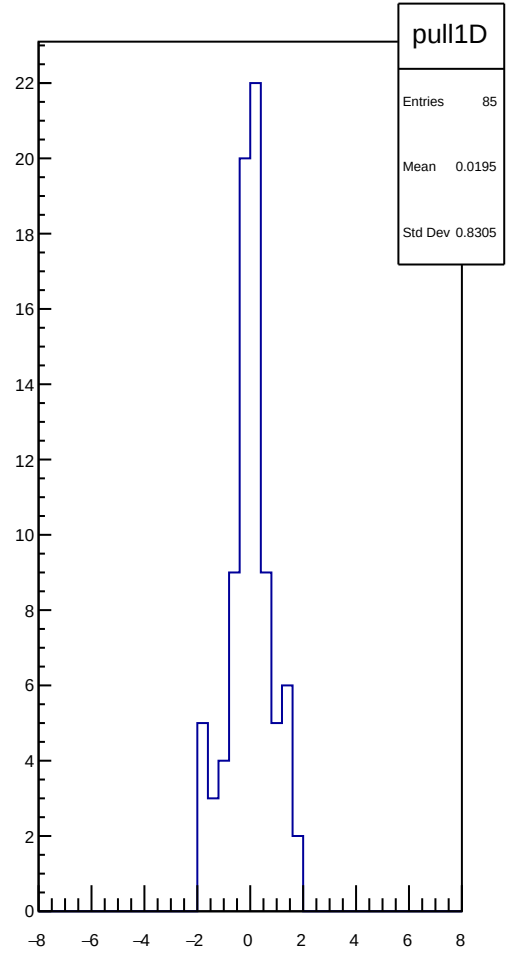

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 3700 / 84
p0 8157 ± 6.362
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

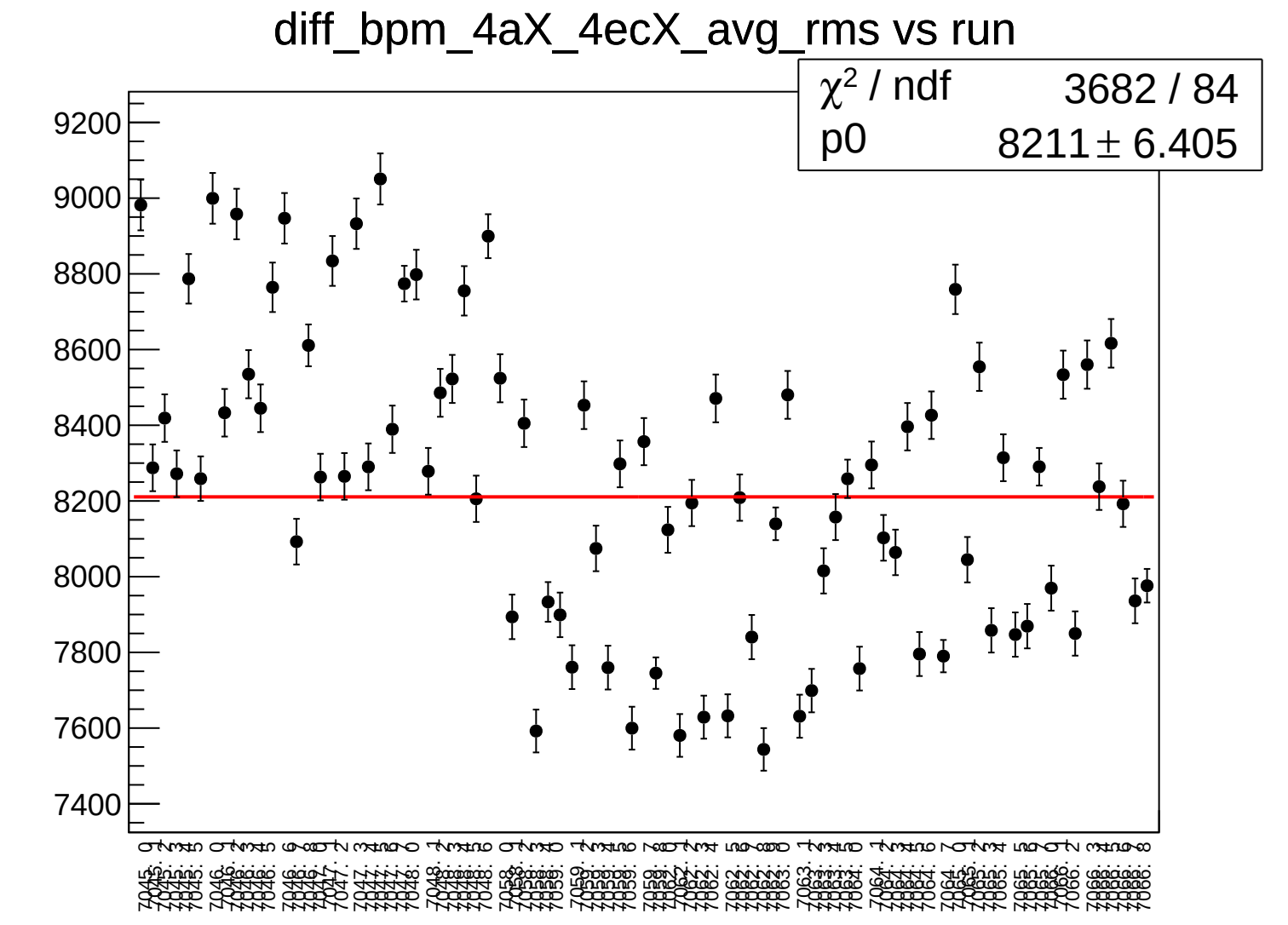

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 102.7 / 84
p0 −0.5889 ± 0.4659
pull
Entries 85
Mean 417
Std Dev 0

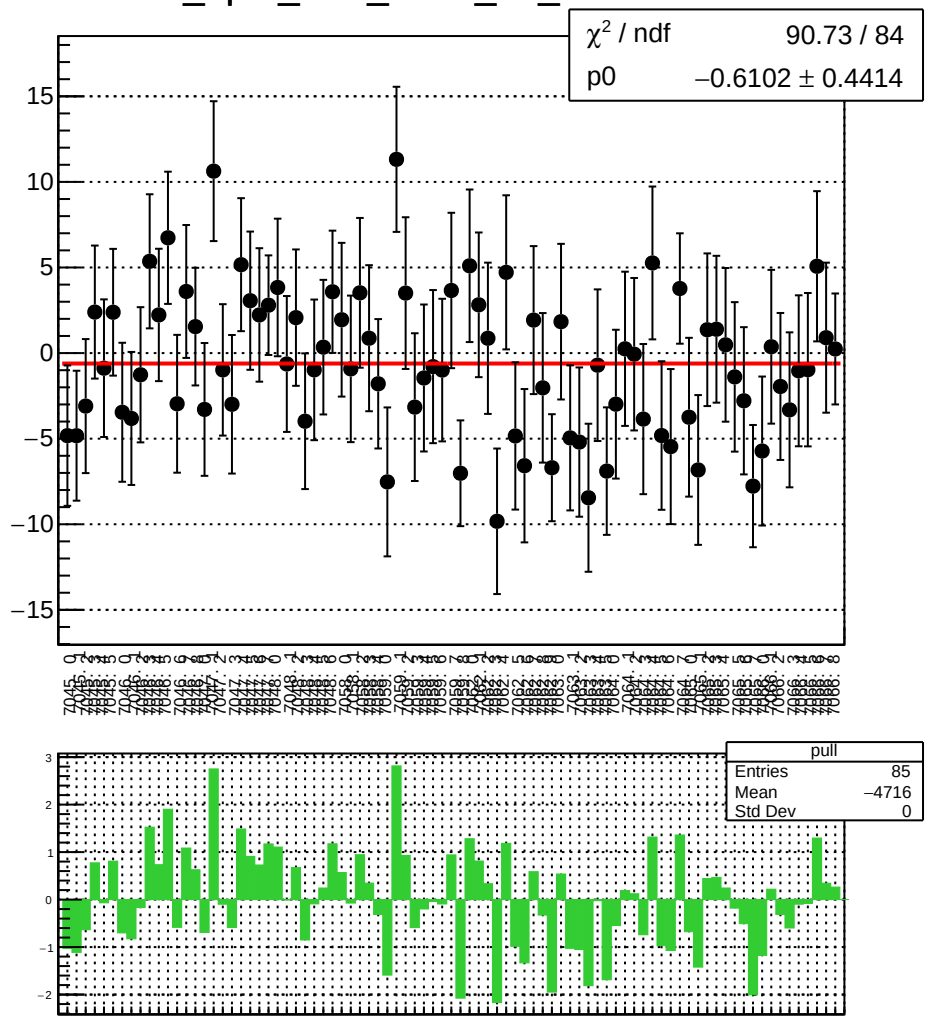

pull1D
Entries 85
Mean −0.01747
Std Dev 1.099

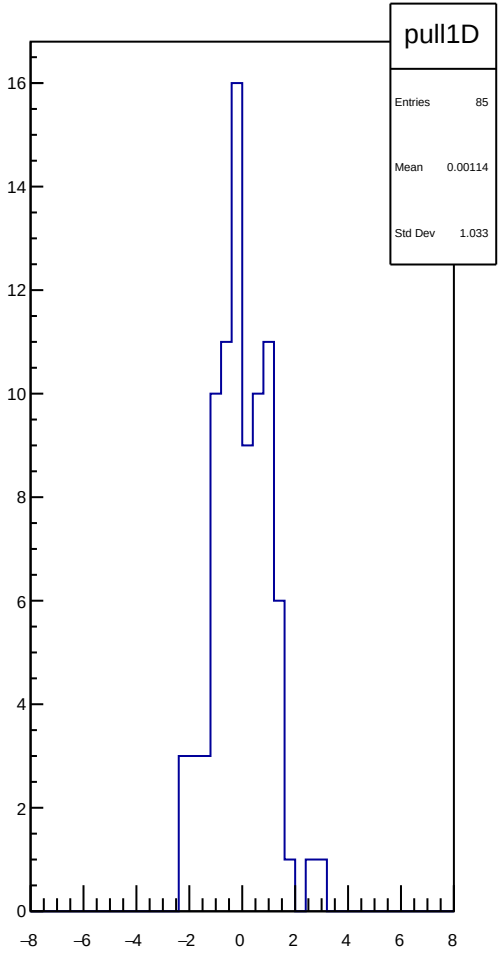

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2.833e+04 / 84
p0 419.2 ± 0.3294
700
650
600
550
500
450
400
350

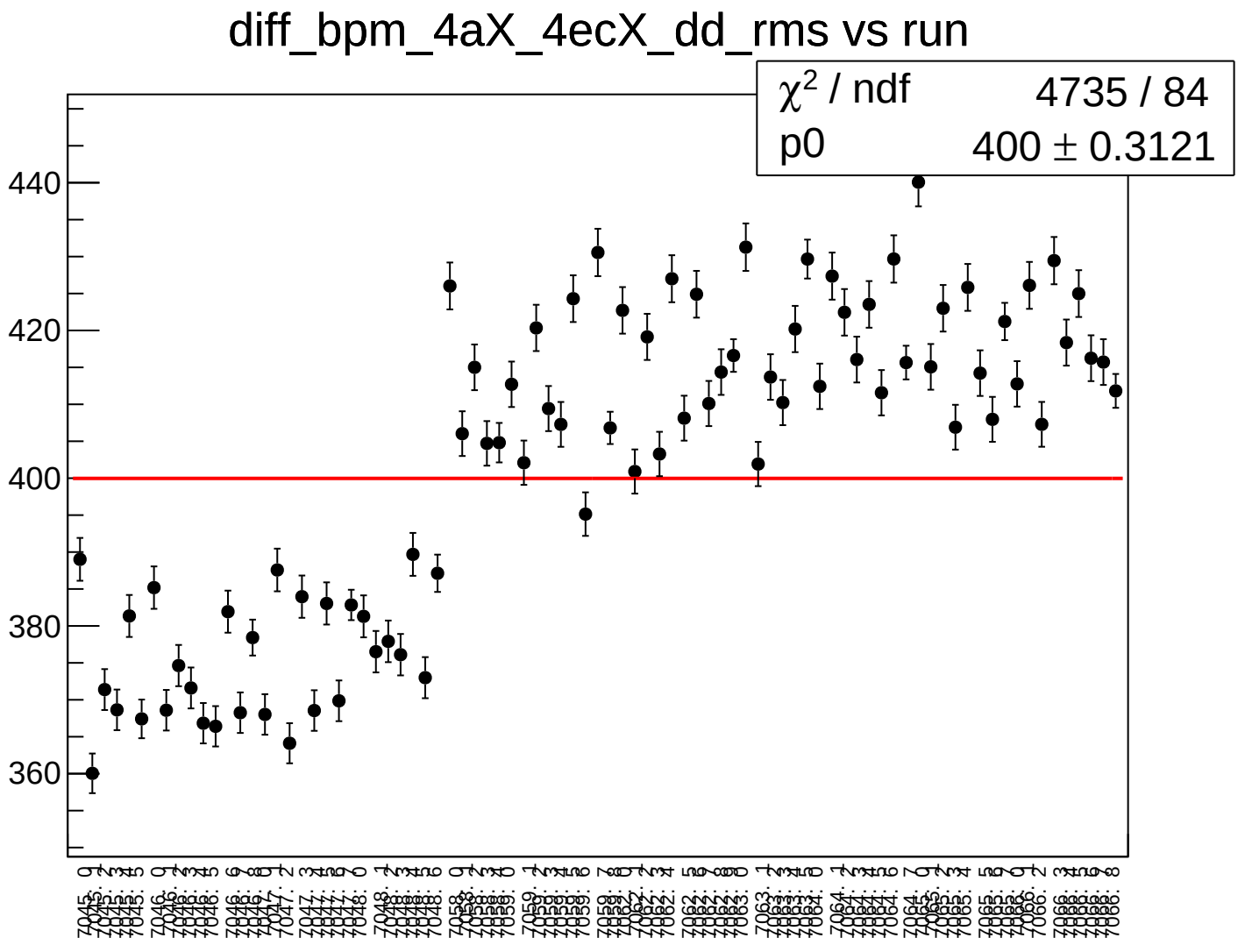

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 58.66 / 84
p0 −11.97 ± 9.058
pull
Entries 85
Mean −154.3
Std Dev 0

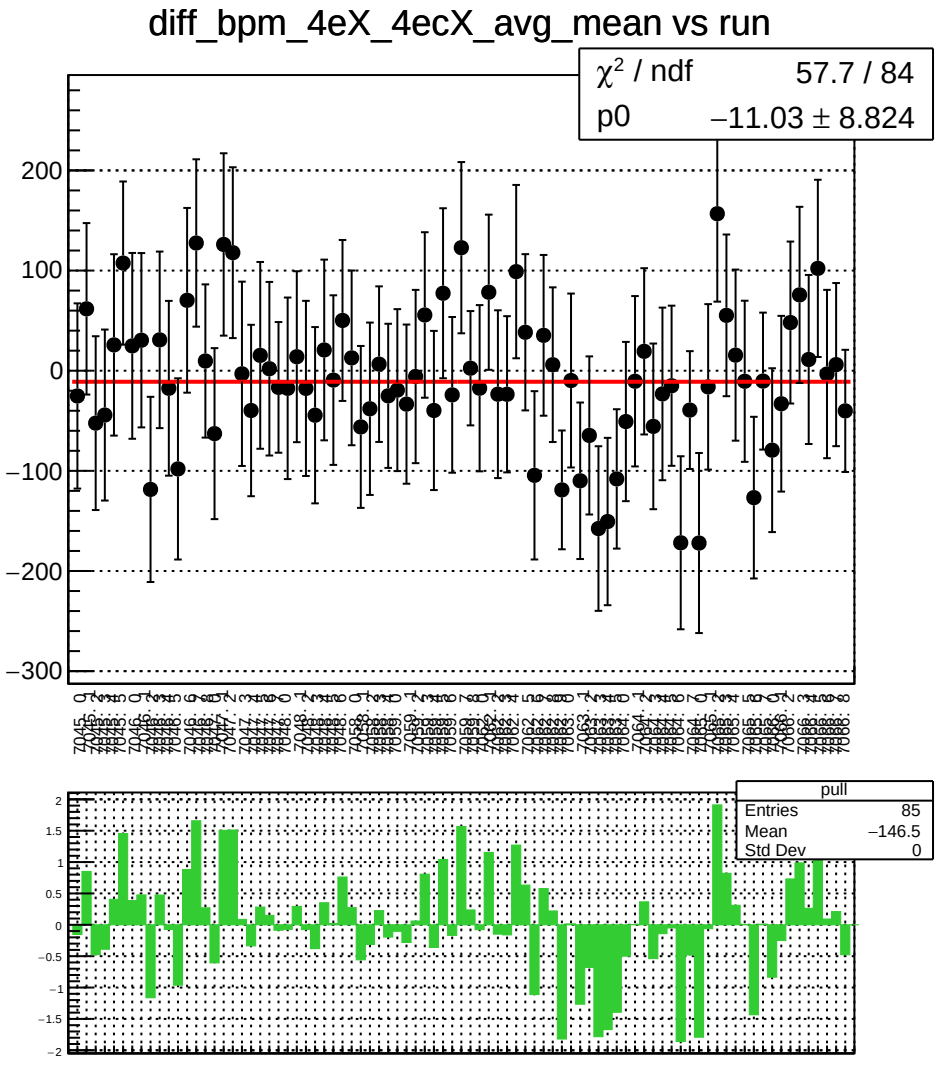

pull1D
Entries 85
Mean 0.0195
Std Dev 0.8305

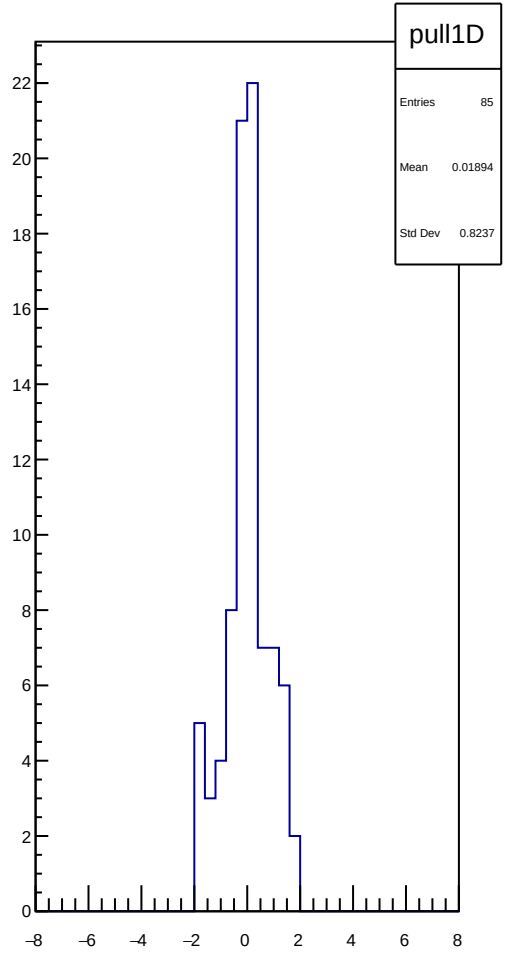

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3682 / 84
p0 8211 ± 6.405
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

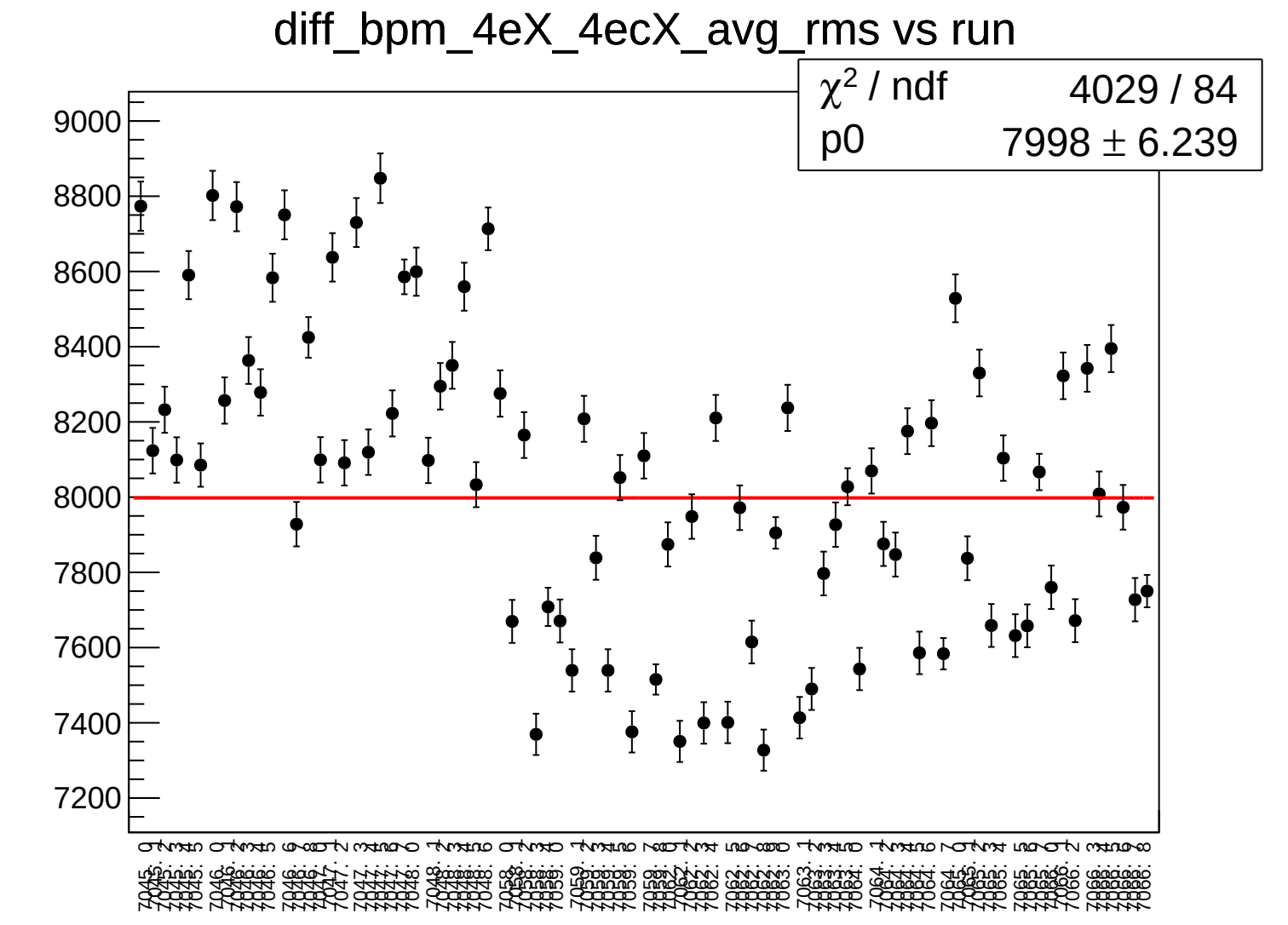

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 90.73 / 84
p0 −0.6102 ± 0.4414
pull
Entries 85
Mean −4716
Std Dev 0

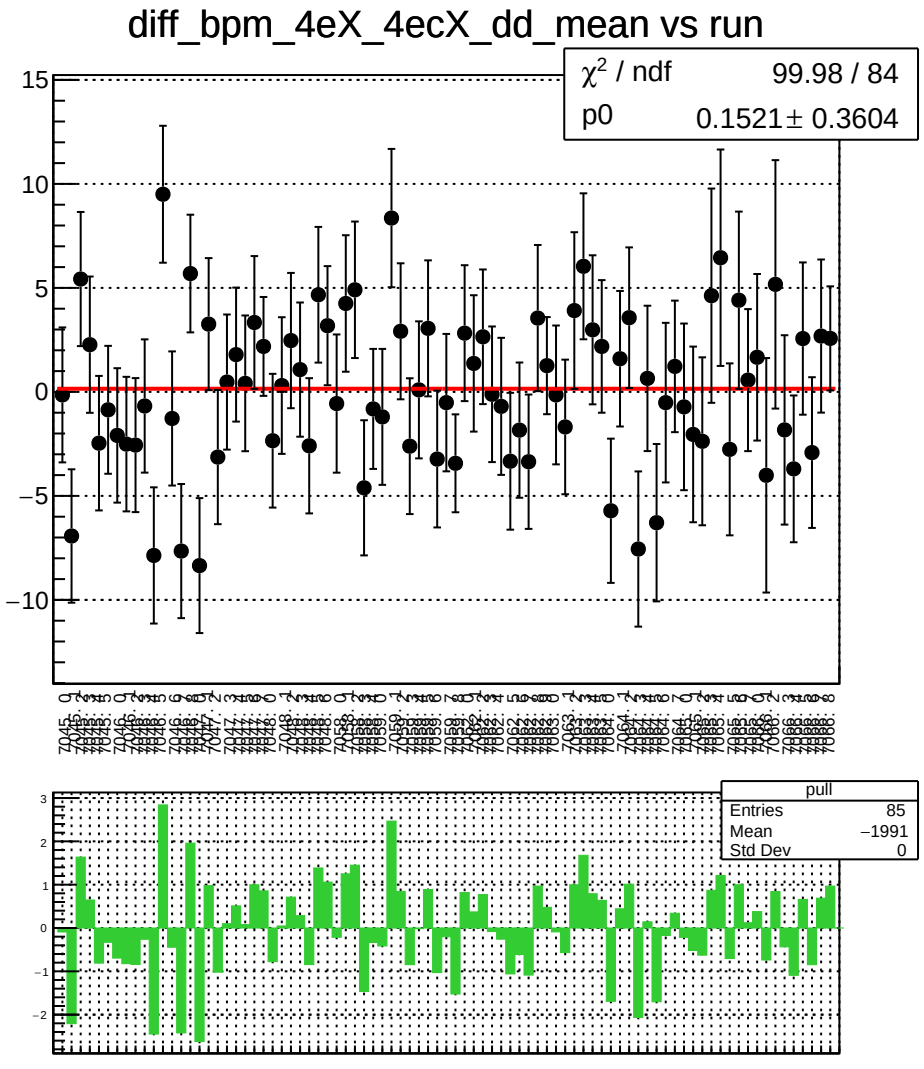

pull1D
Entries 85
Mean 0.00114
Std Dev 1.033

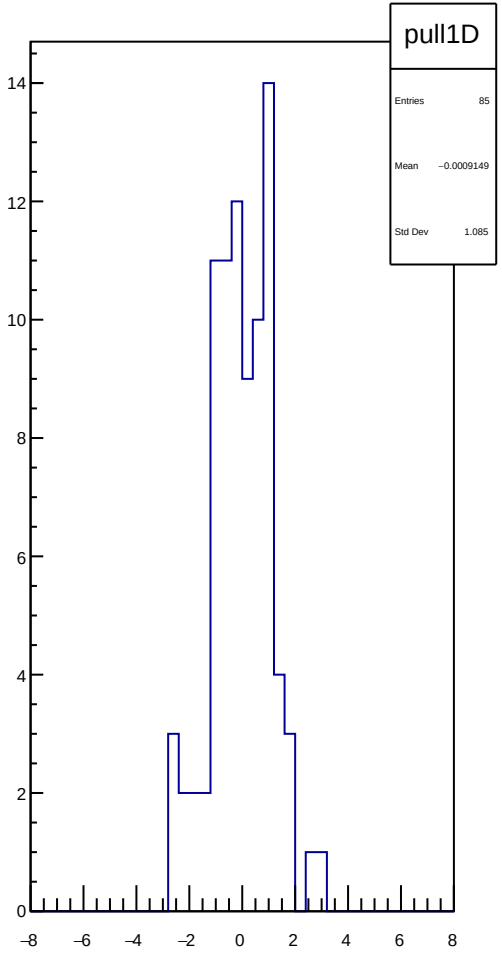

diff_bpm_4aX_4ecX_dd_rms vs run
χ^2 / ndf 4735 / 84
p0 400 ± 0.3121
440
420
400
380
360

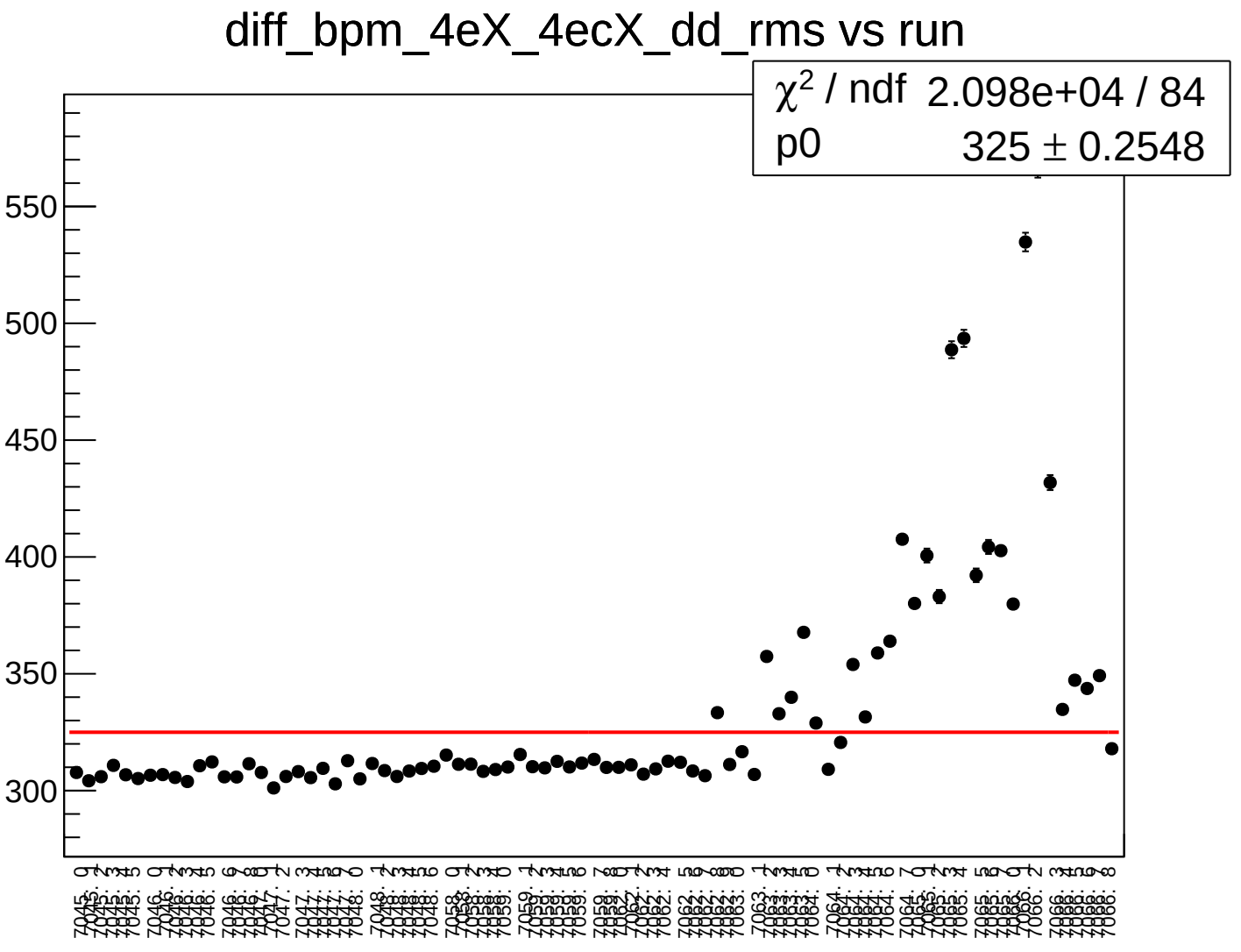

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 57.7 / 84
p0 −11.03 ± 8.824
200
100
0
−100
−200
−300
pull
Entries 85
Mean −146.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

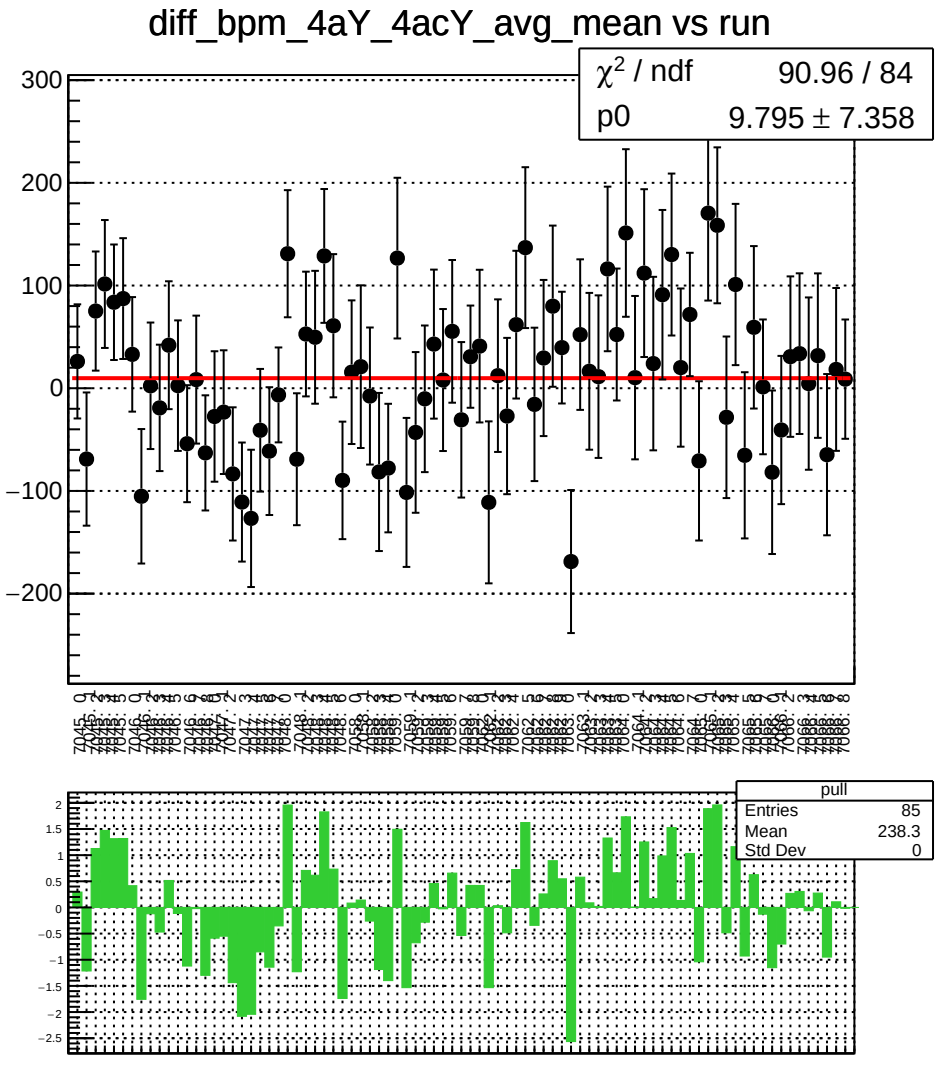

pull1D
Entries 85
Mean 0.01894
Std Dev 0.8237
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

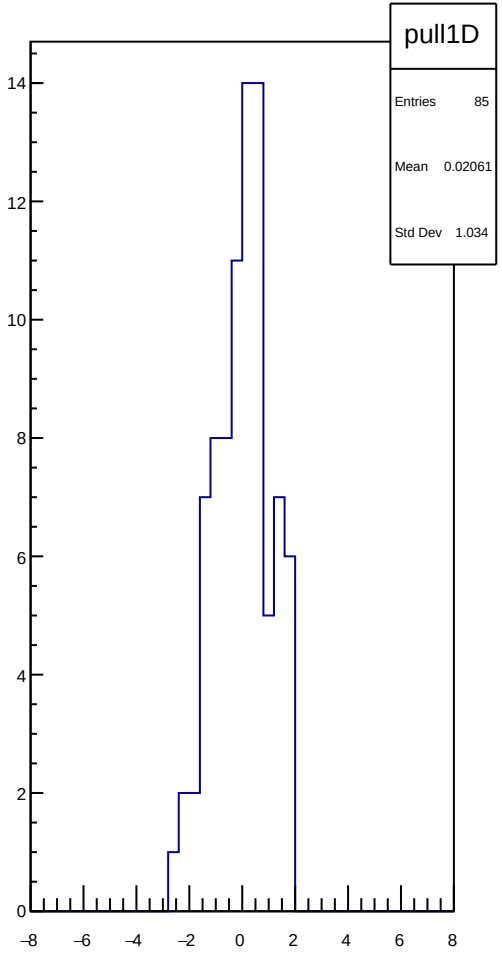

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4029 / 84
p0 7998 ± 6.239
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

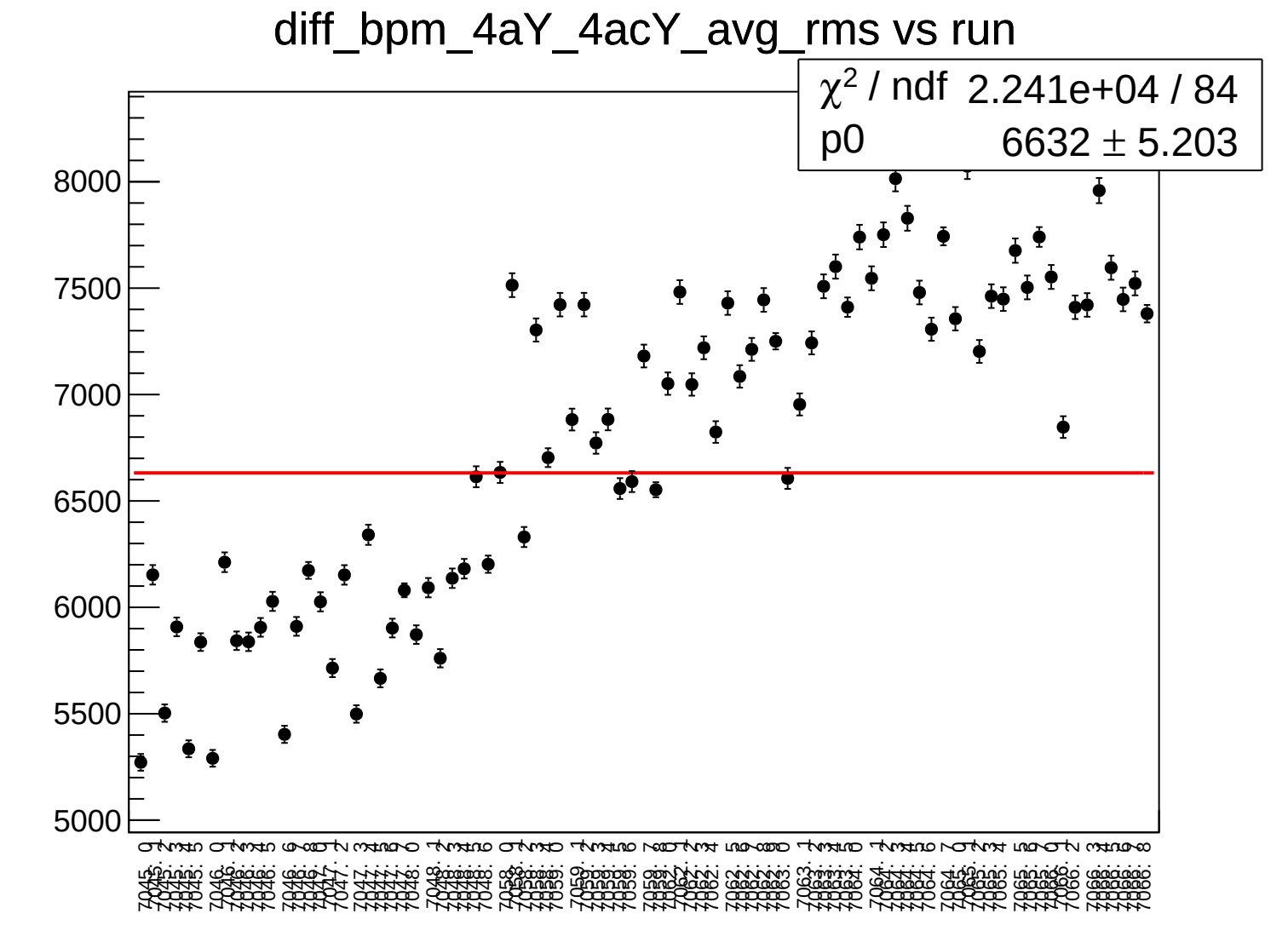

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 99.98 / 84
p0 0.1521 ± 0.3604
pull
Entries 85
Mean −1991
Std Dev 0

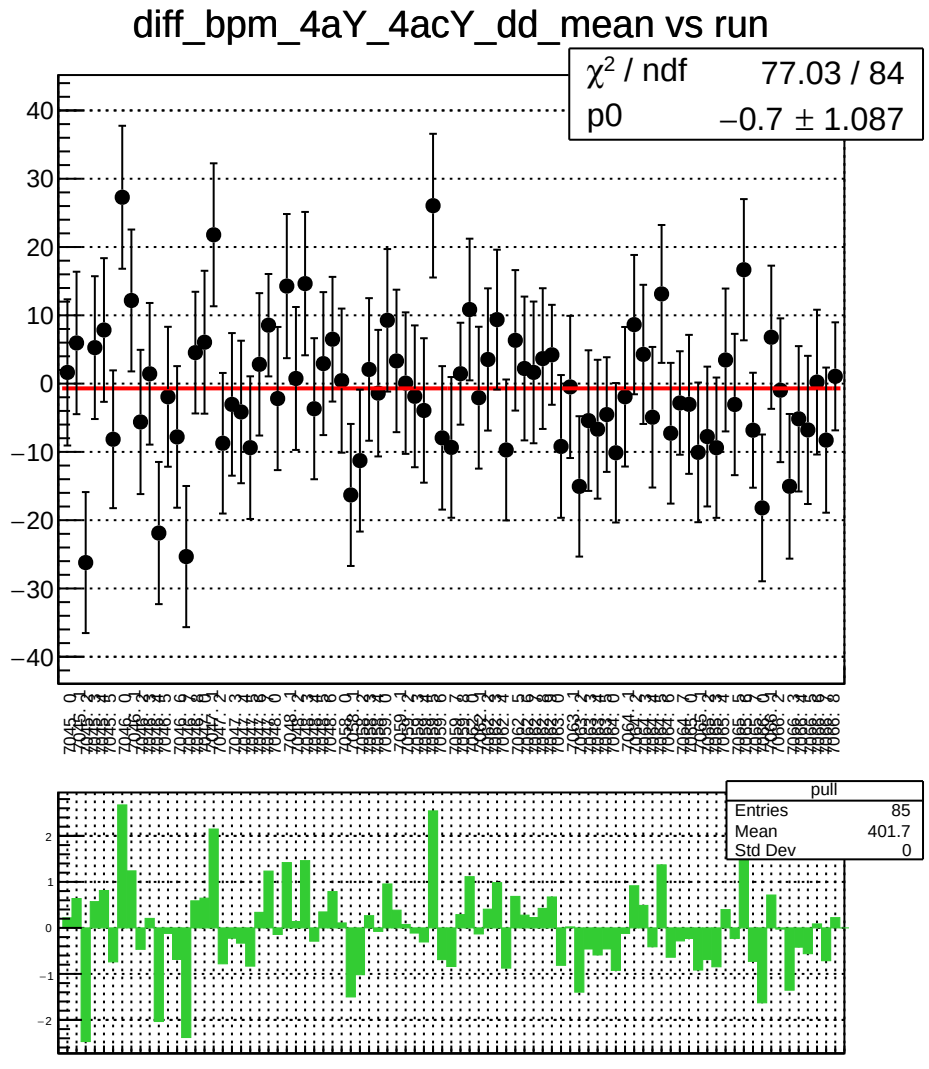

pull1D
Entries 85
Mean −0.0009149
Std Dev 1.085

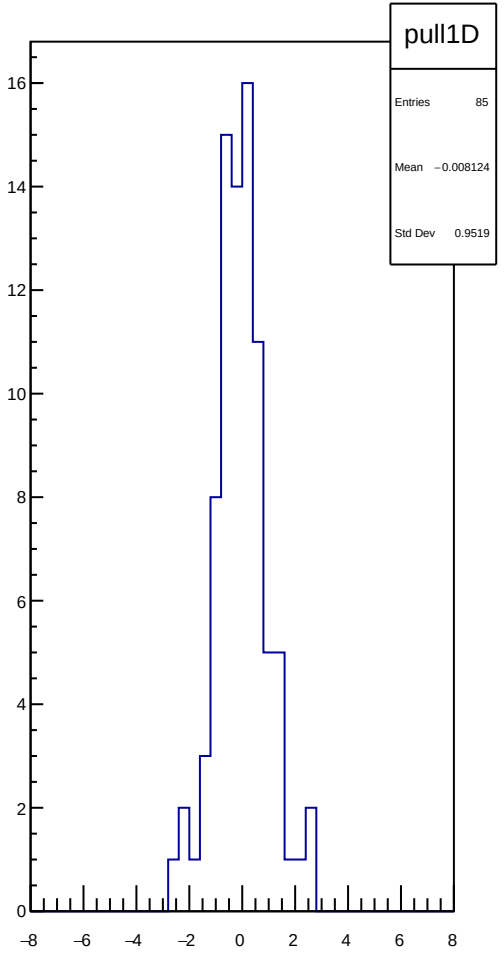

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 2.098e+04 / 84
p0 325 ± 0.2548
550
500
450
400
350
300

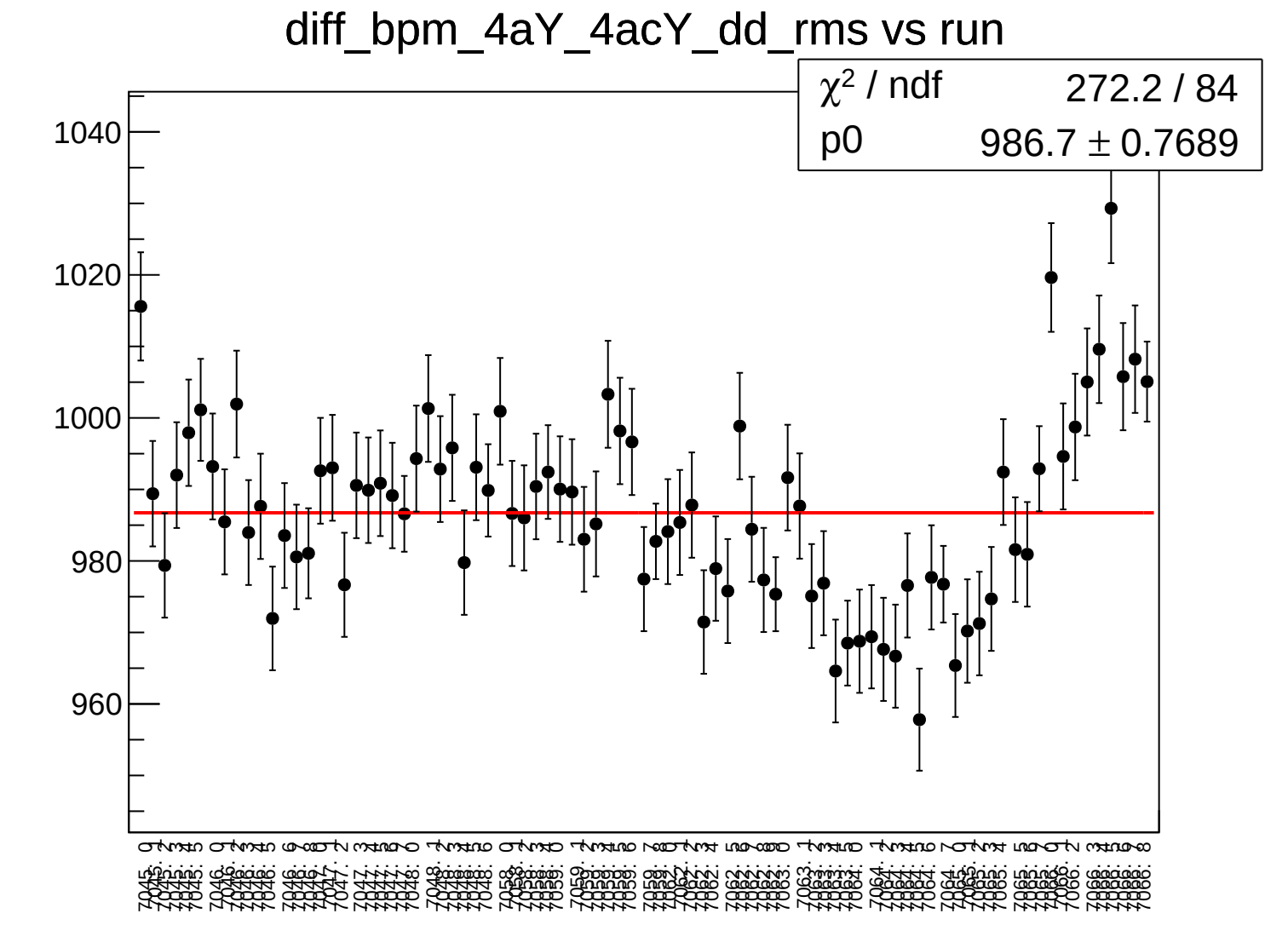

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 90.96 / 84
p0 9.795 ± 7.358
pull
Entries 85
Mean 238.3
Std Dev 0

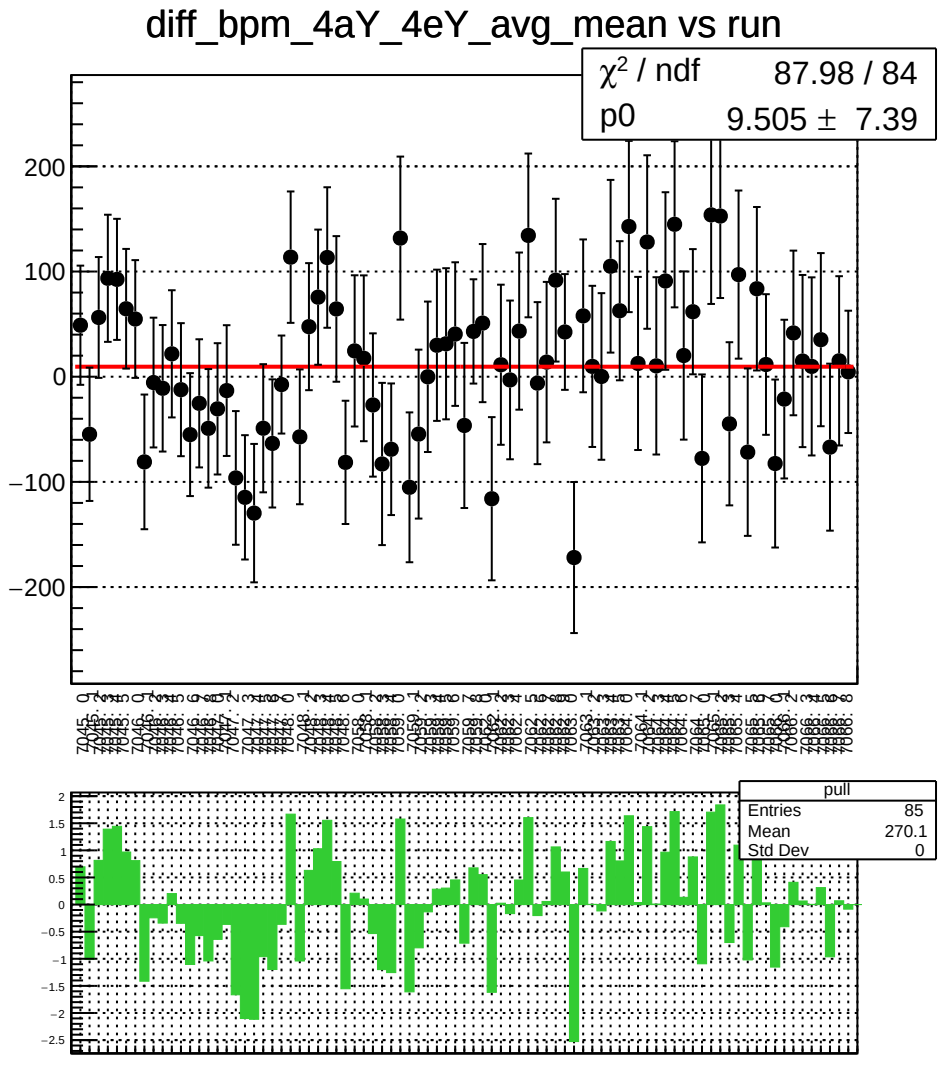

pull1D
Entries 85
Mean 0.02061
Std Dev 1.034

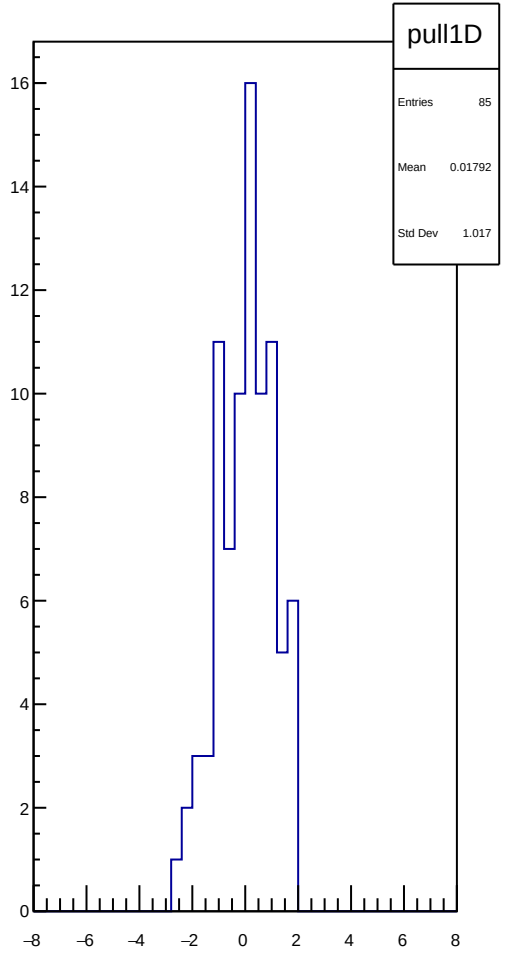

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 2.241e+04 / 84
p0 6632 ± 5.203
8000
7500
7000
6500
6000
5500
5000

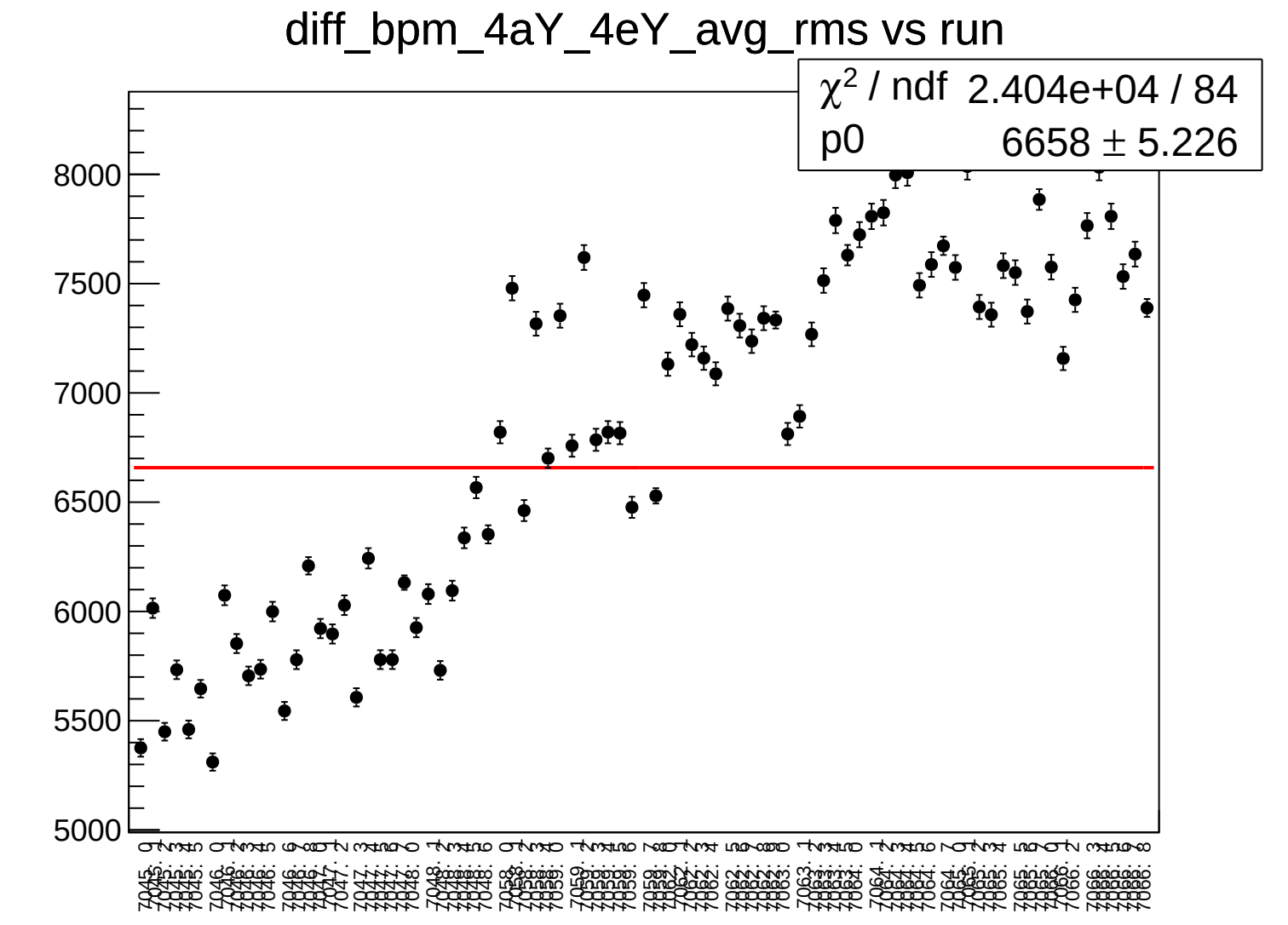

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 77.03 / 84
p0 −0.7 ± 1.087
pull
Entries 85
Mean 401.7
Std Dev 0

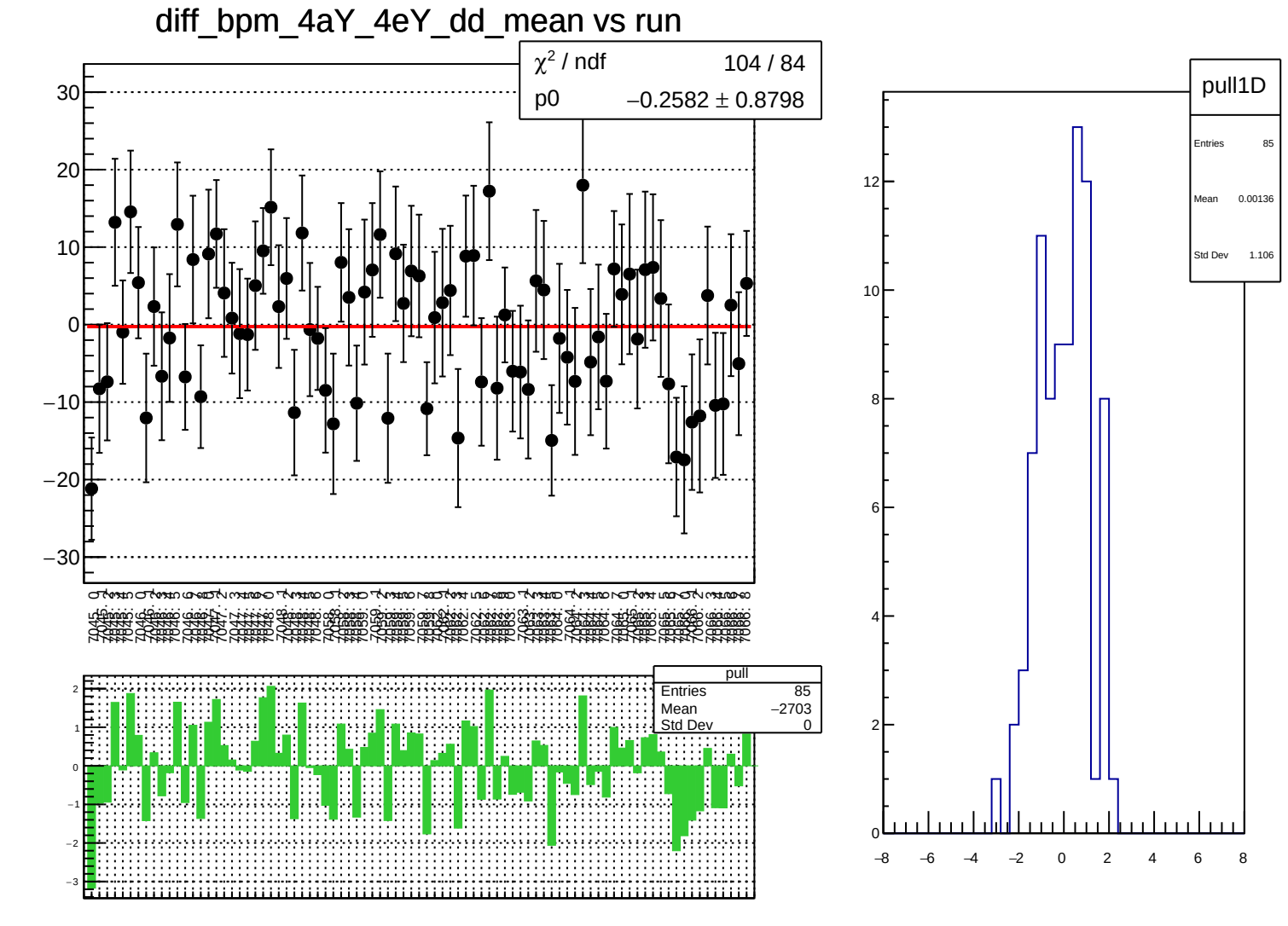

pull1D
Entries 85
Mean −0.008124
Std Dev 0.9519

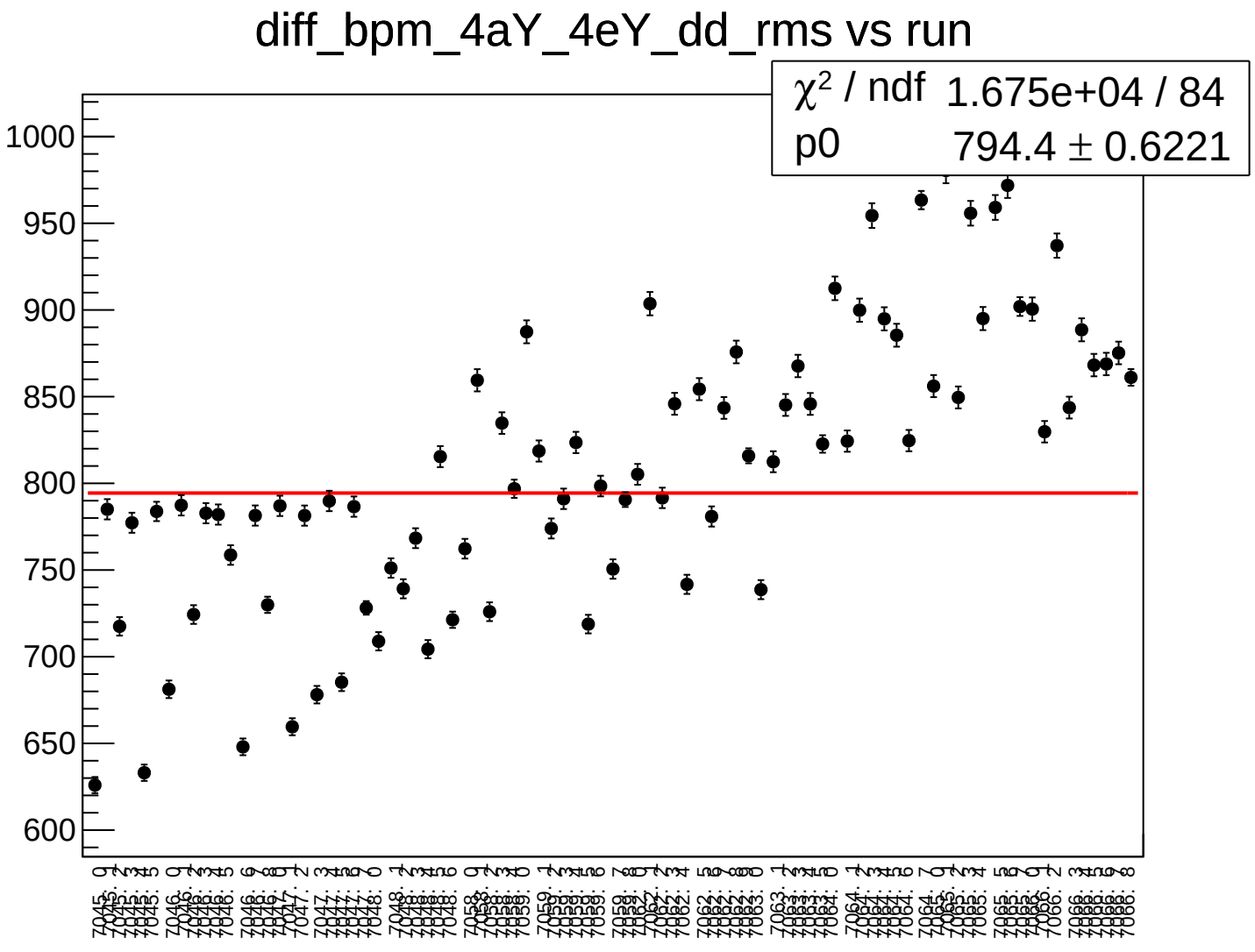

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 272.2 / 84
p0 986.7 ± 0.7689
1040
1020
1000
980
960

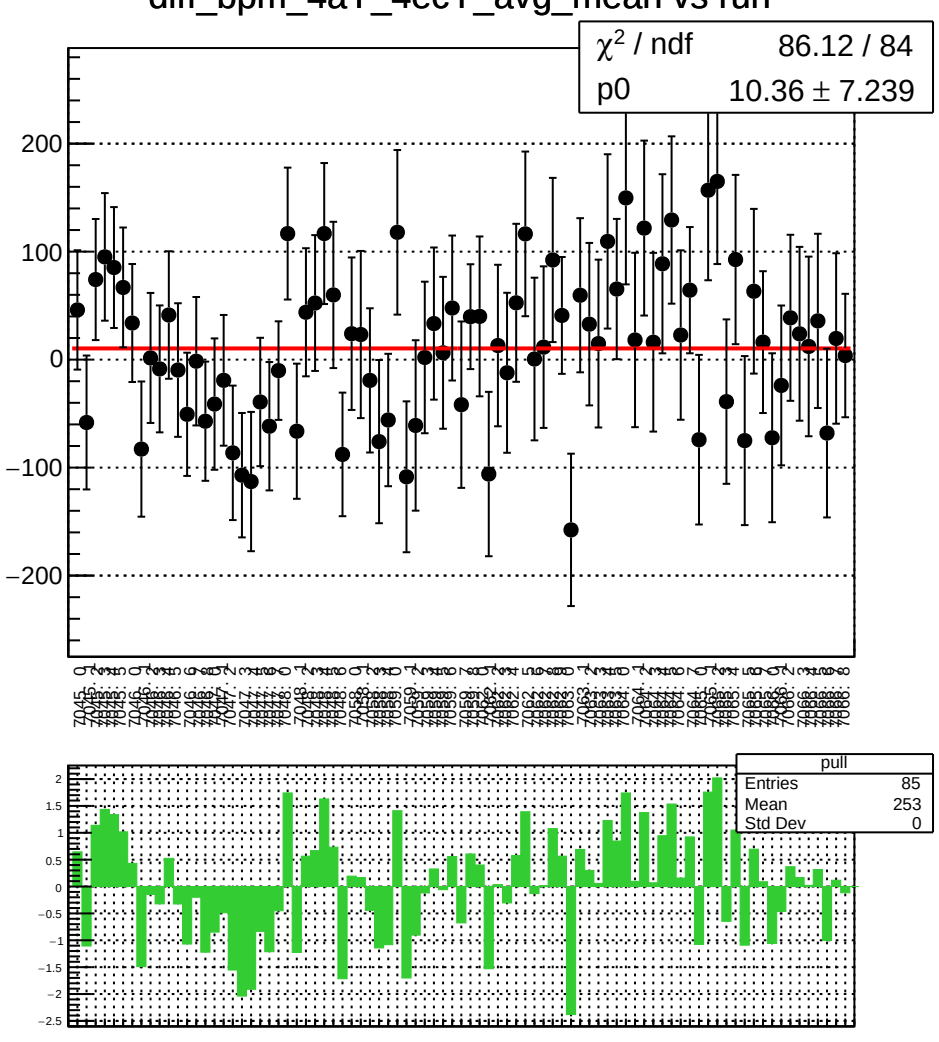

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 87.98 / 84
p0 9.505 ± 7.39
200
100
0
−100
−200
pull
Entries 85
Mean 270.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

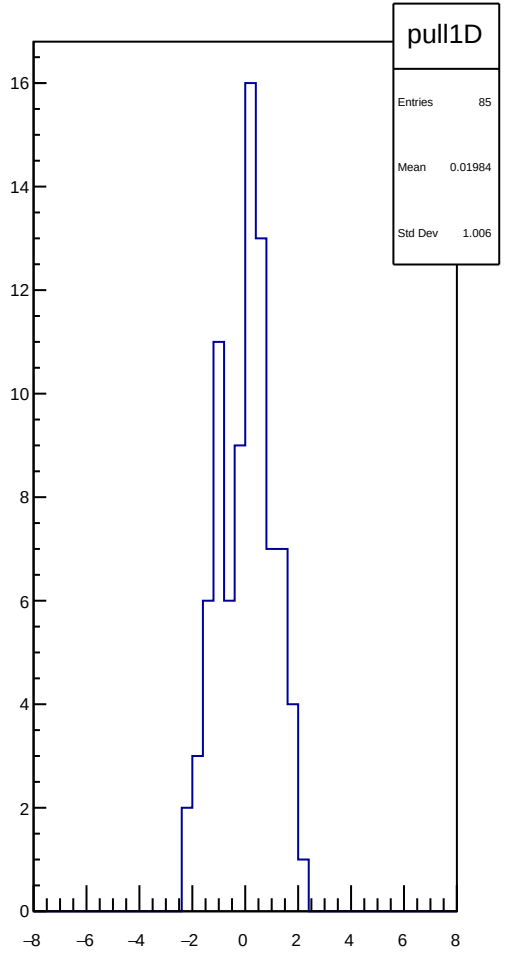

pull1D
Entries 85
Mean 0.01792
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

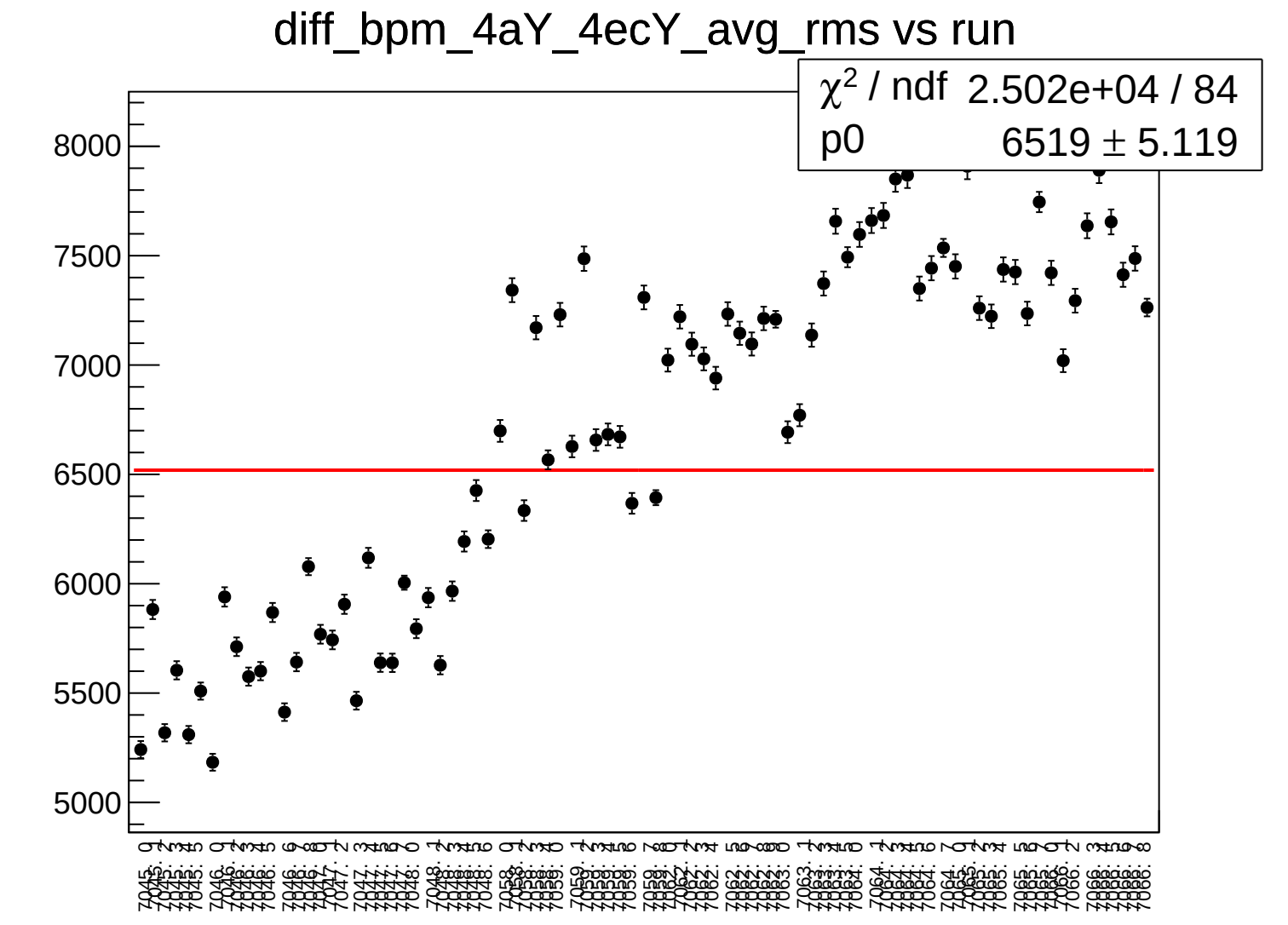

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 2.404e+04 / 84
p0 6658 ± 5.226
8000
7500
7000
6500
6000
5500
5000

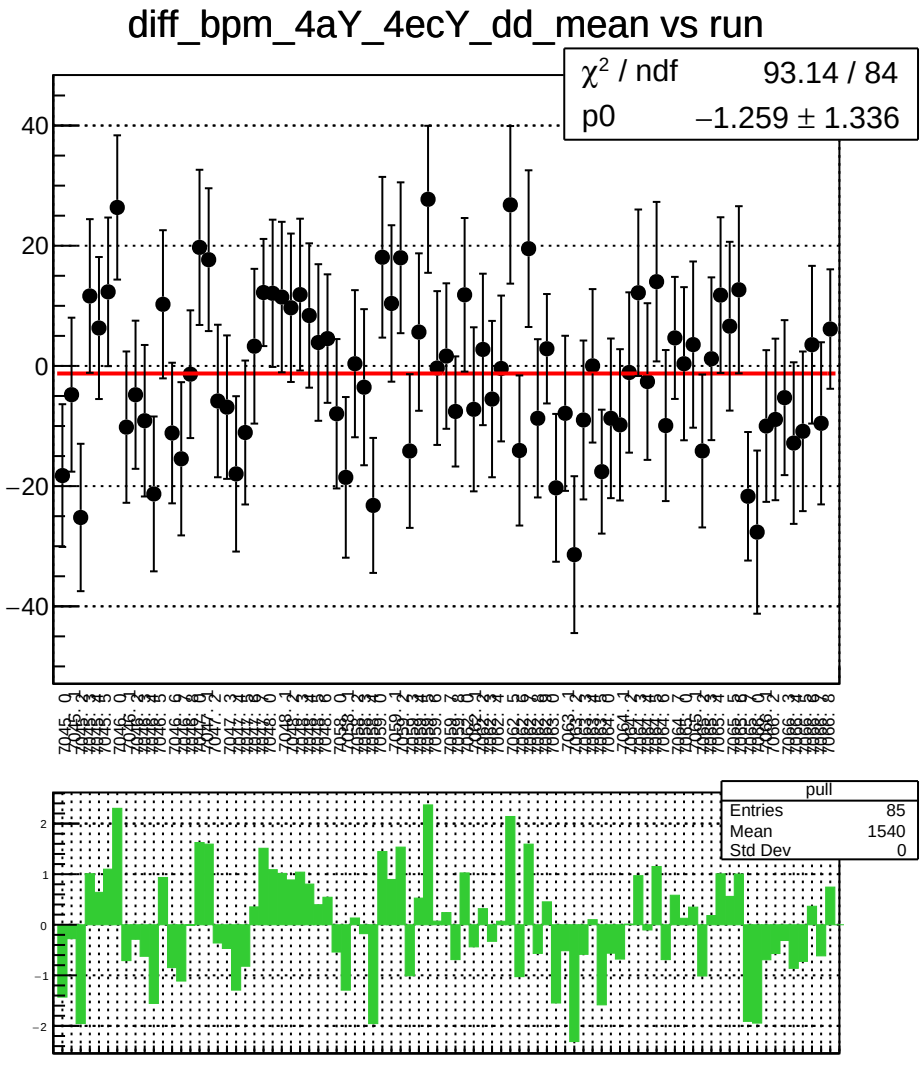

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 104 / 84
p0 −0.2582 ± 0.8798
pull
Entries 85
Mean −2703
Std Dev 0
pull1D
Entries 85
Mean 0.00136
Std Dev 1.106

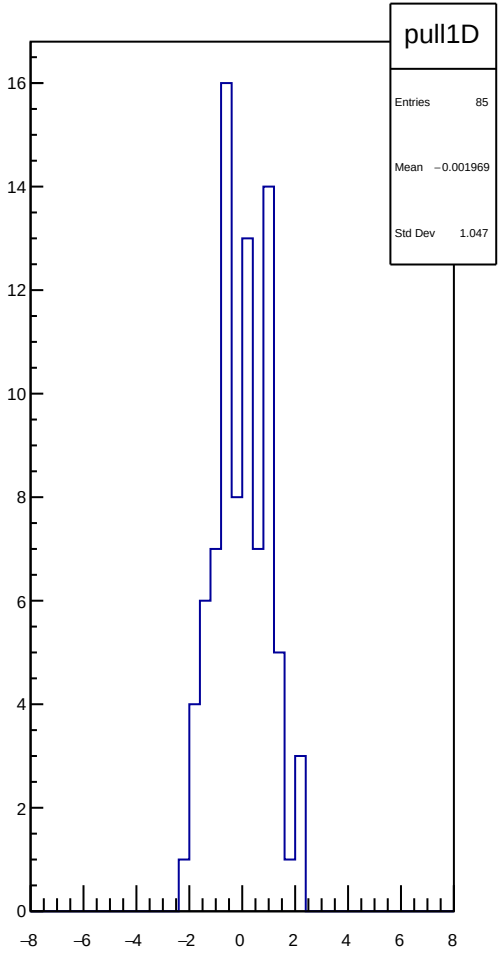

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.675e+04 / 84
p0 794.4 ± 0.6221
1000
950
900
850
800
750
700
650
600

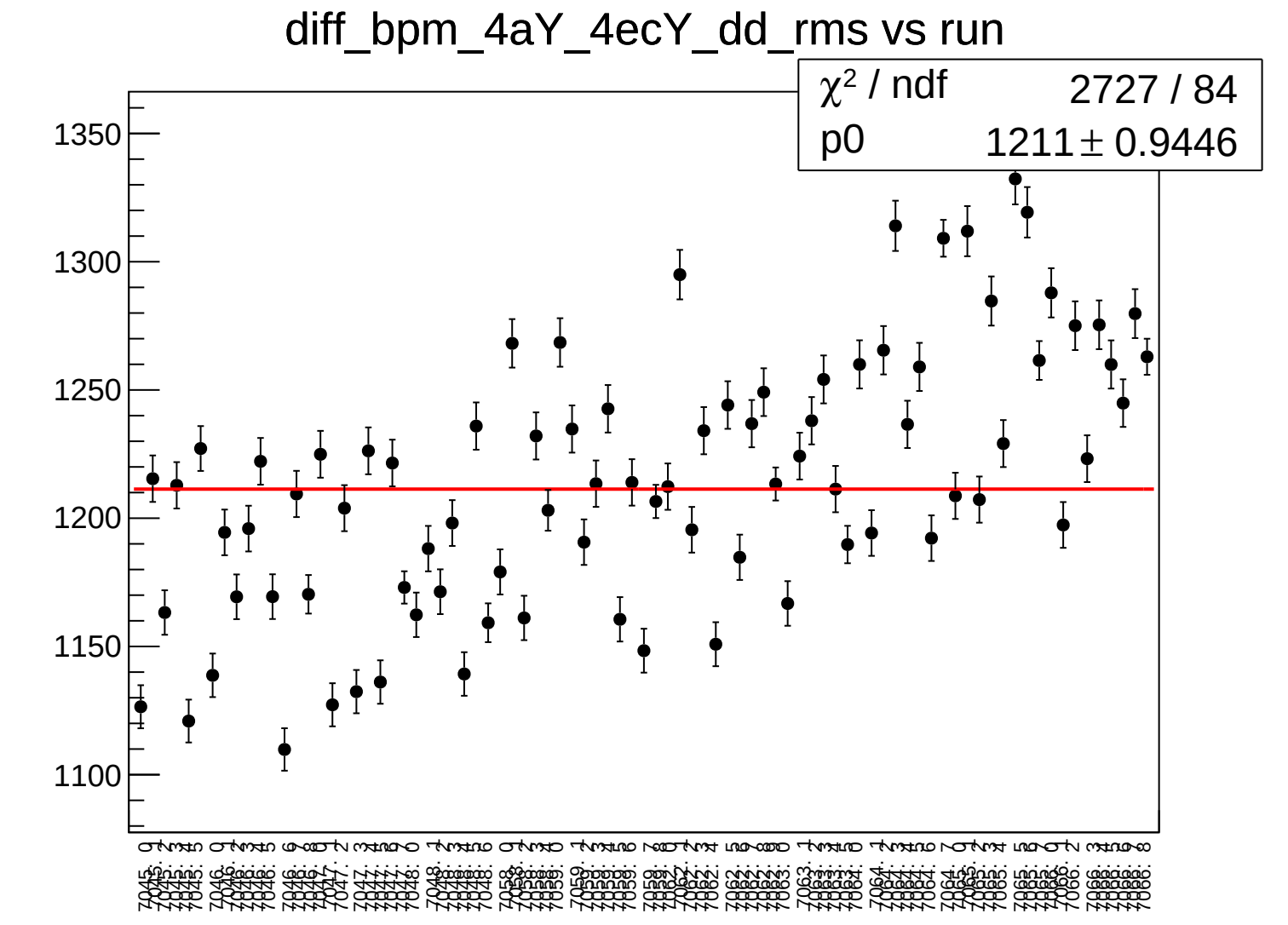

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 86.12 / 84
p0 10.36 ± 7.239
200
100
0
−100
−200
pull
Entries 85
Mean 253
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

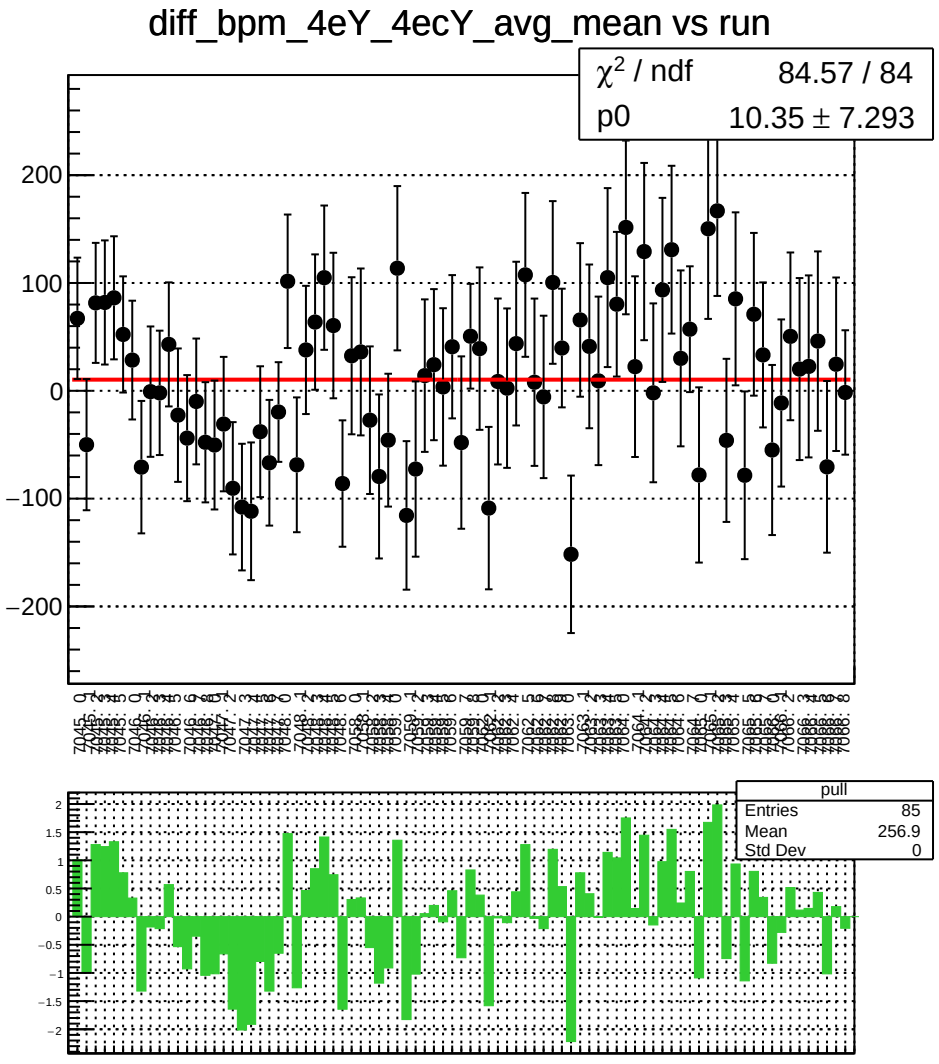

pull1D
Entries 85
Mean 0.01984
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

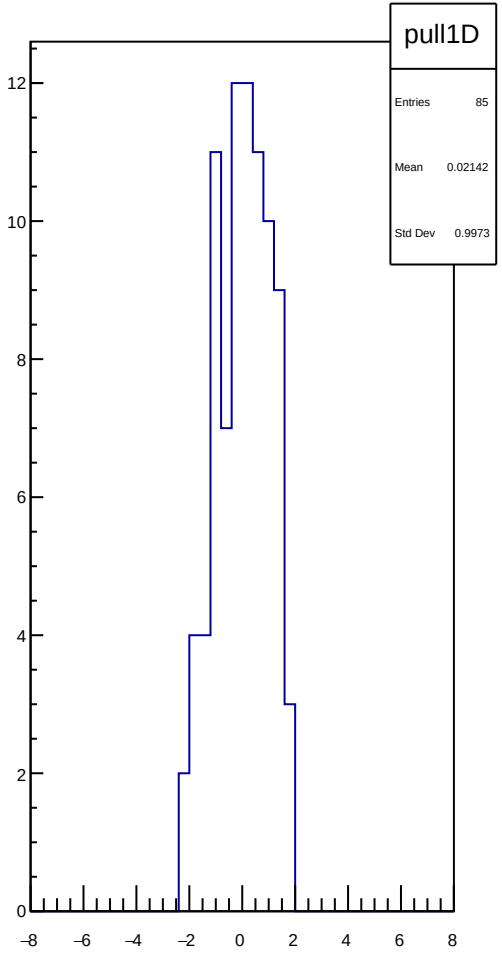

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2.502e+04 / 84
p0 6519 ± 5.119
8000
7500
7000
6500
6000
5500
5000

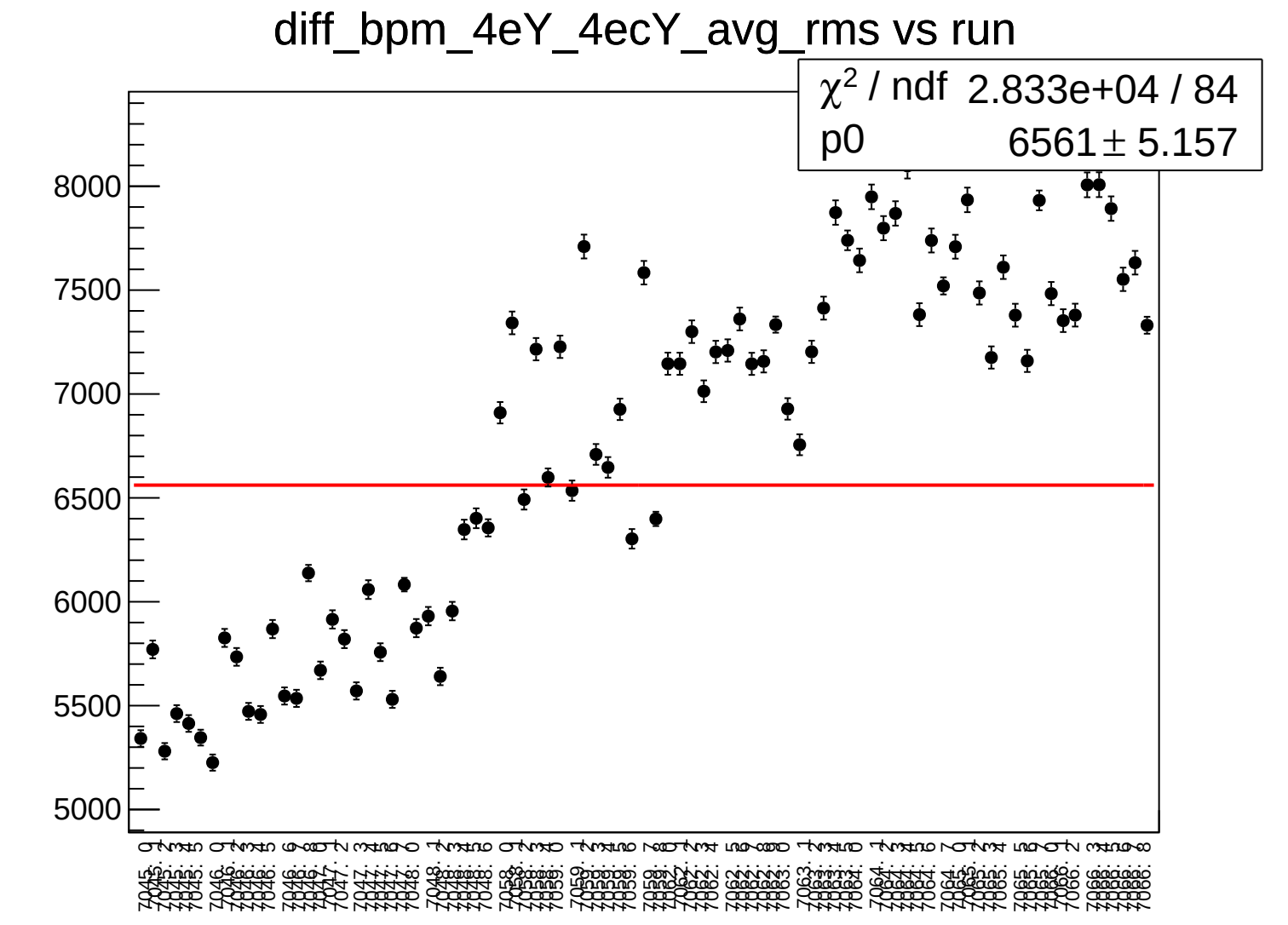

diff_bpm_4aY_4ecY_dd_mean vs run
χ^2 / ndf 93.14 / 84
p0 −1.259 ± 1.336
pull
Entries 85
Mean 1540
Std Dev 0

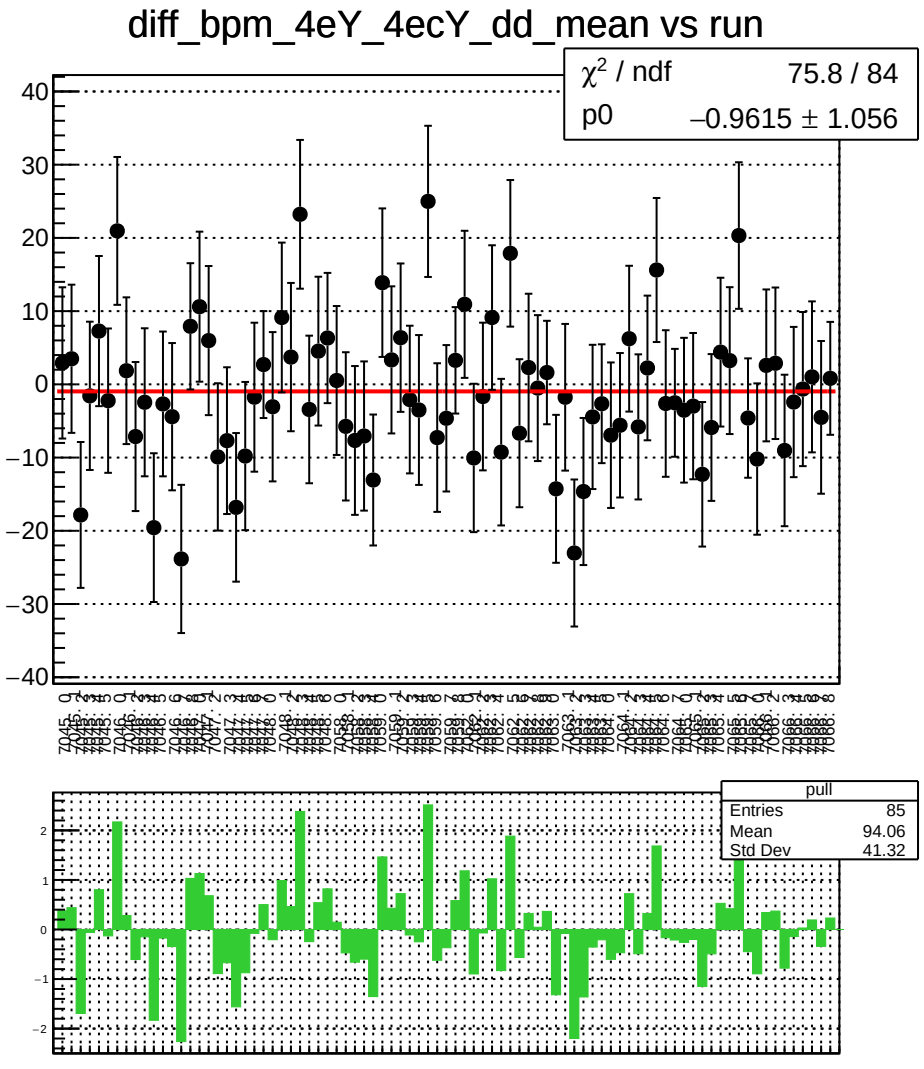

pull1D
Entries 85
Mean −0.001969
Std Dev 1.047

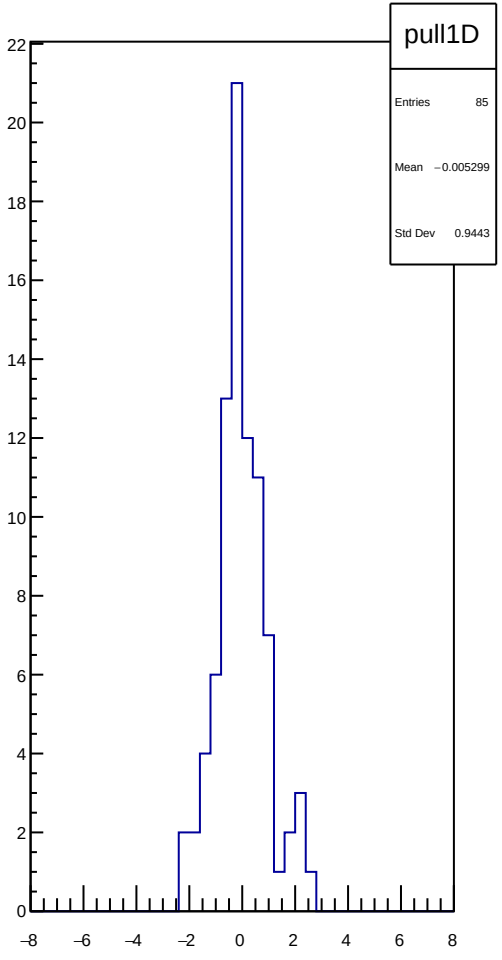

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2727 / 84
p0 1211 ± 0.9446
1350
1300
1250
1200
1150
1100

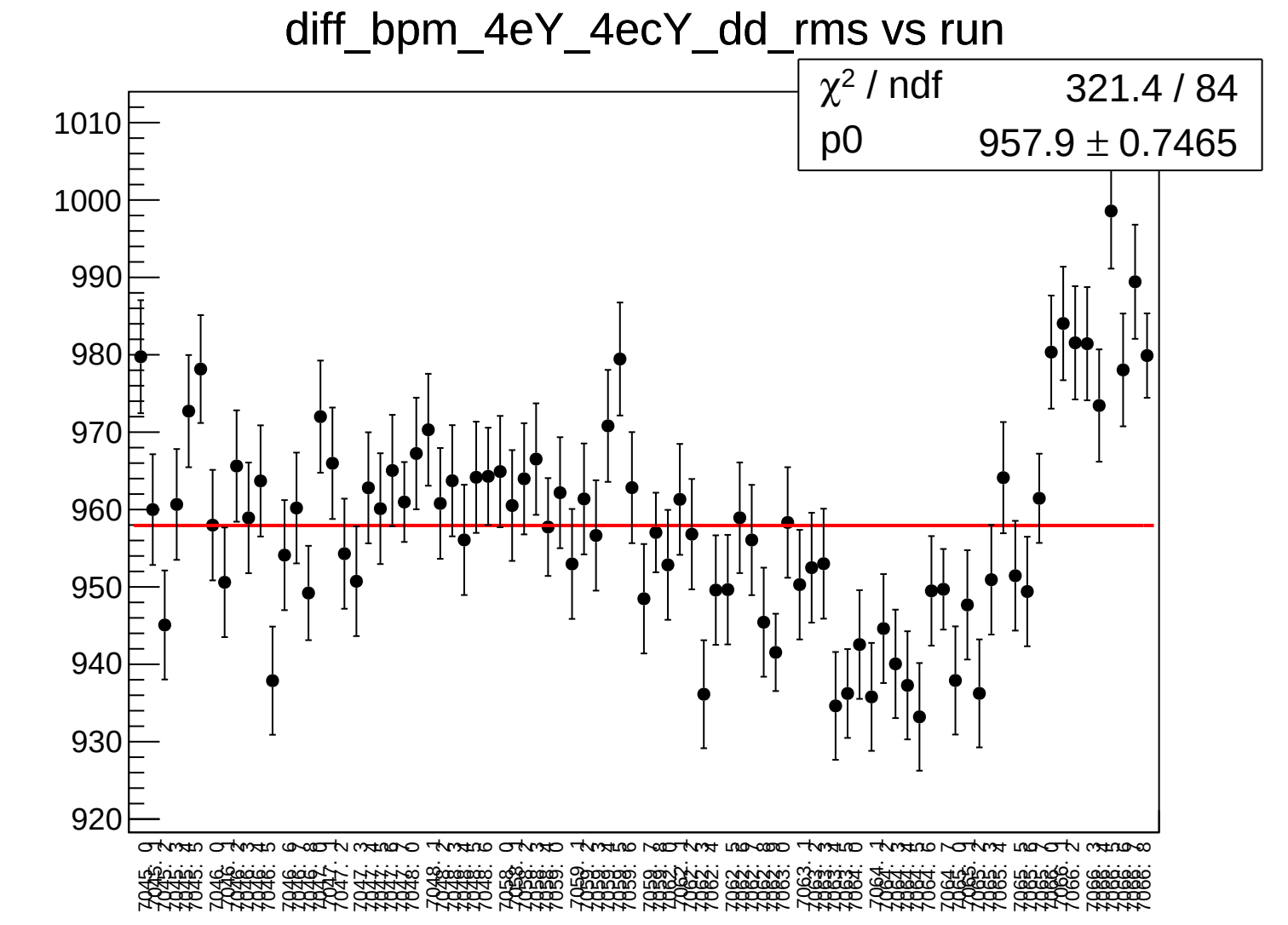

diff_bpm_4eY_4ecY_avg_mean vs run
χ^2 / ndf 84.57 / 84
p0 10.35 ± 7.293
200
100
0
−100
−200
pull
Entries 85
Mean 256.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

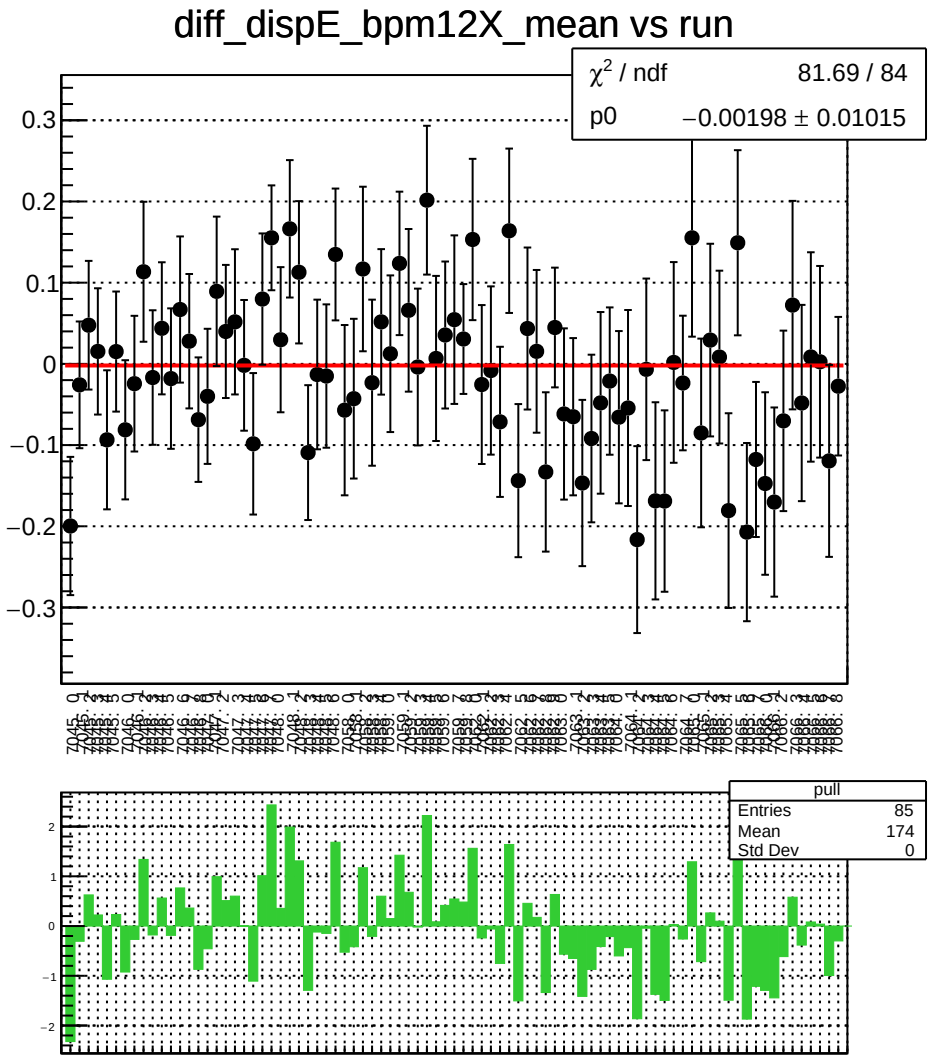

pull1D
Entries 85
Mean 0.02142
Std Dev 0.9973
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

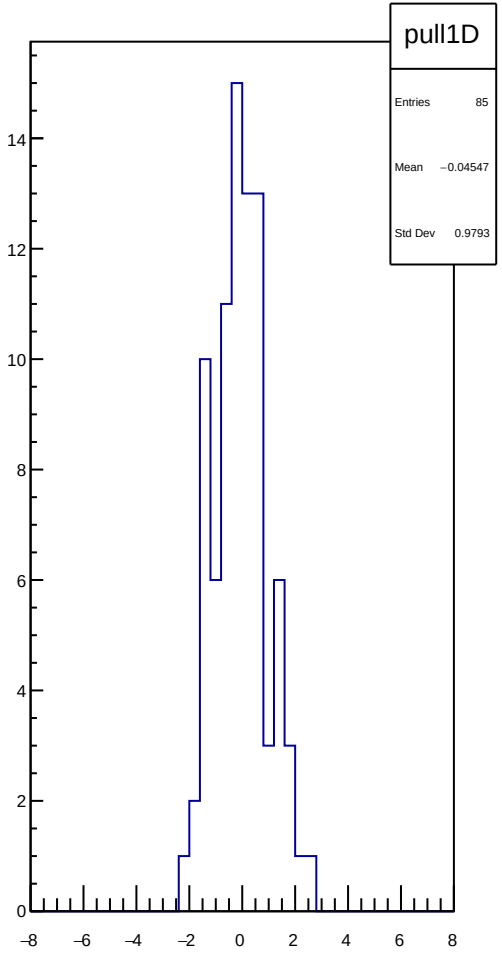

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 2.833e+04 / 84
p0 6561 ± 5.157
8000
7500
7000
6500
6000
5500
5000

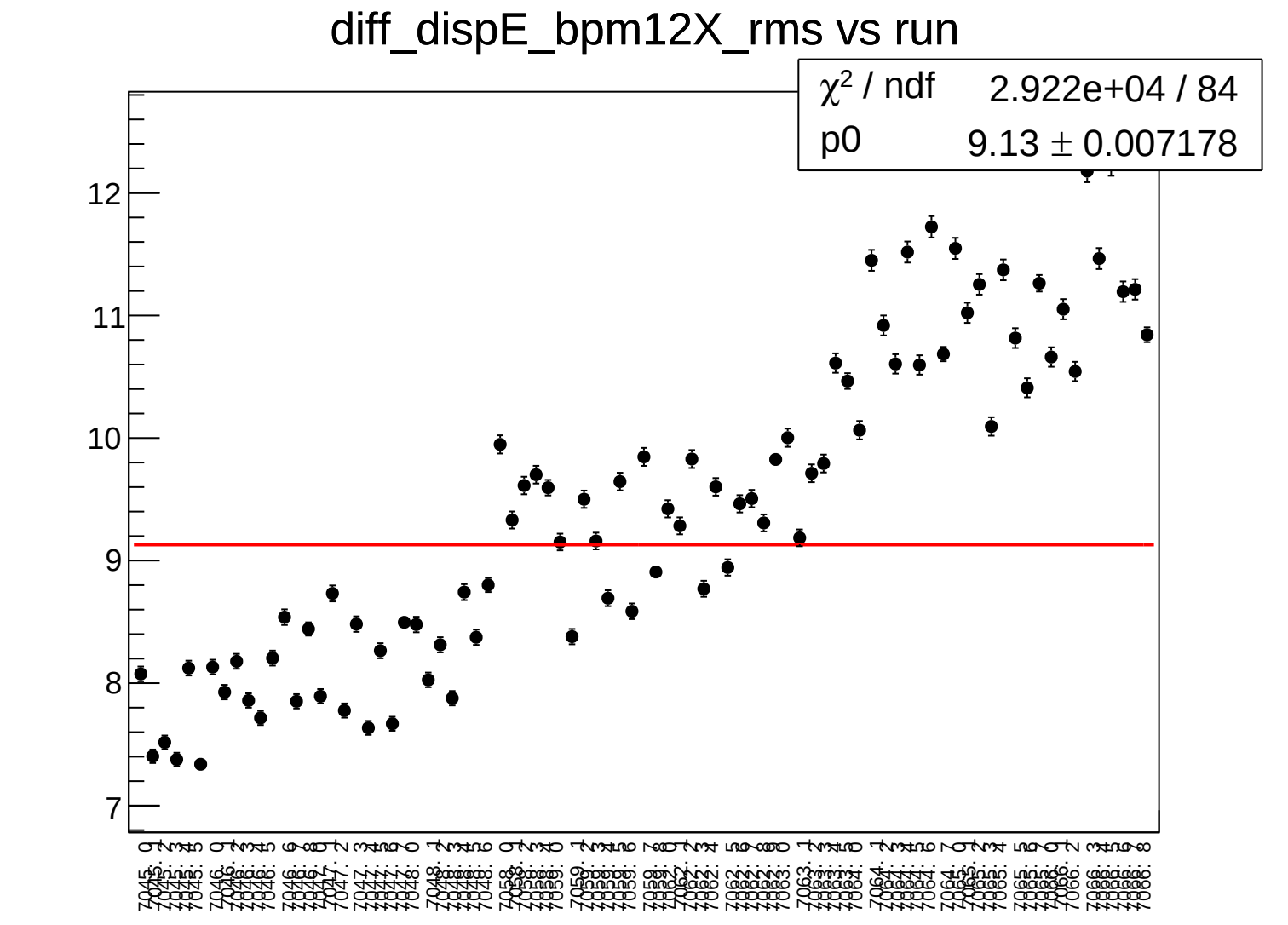

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 75.8 / 84
p0 −0.9615 ± 1.056
pull
Entries 85
Mean 94.06
Std Dev 41.32

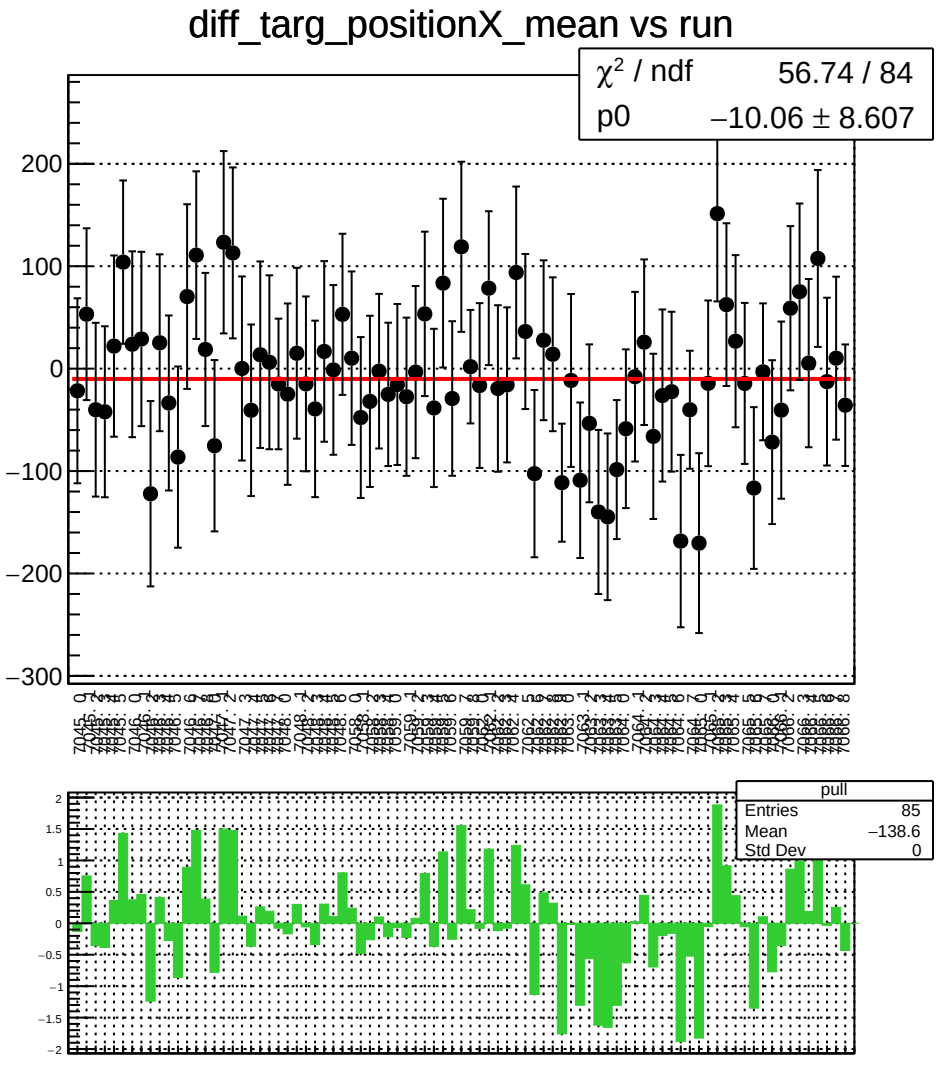

pull1D
Entries 85
Mean −0.005299
Std Dev 0.9443

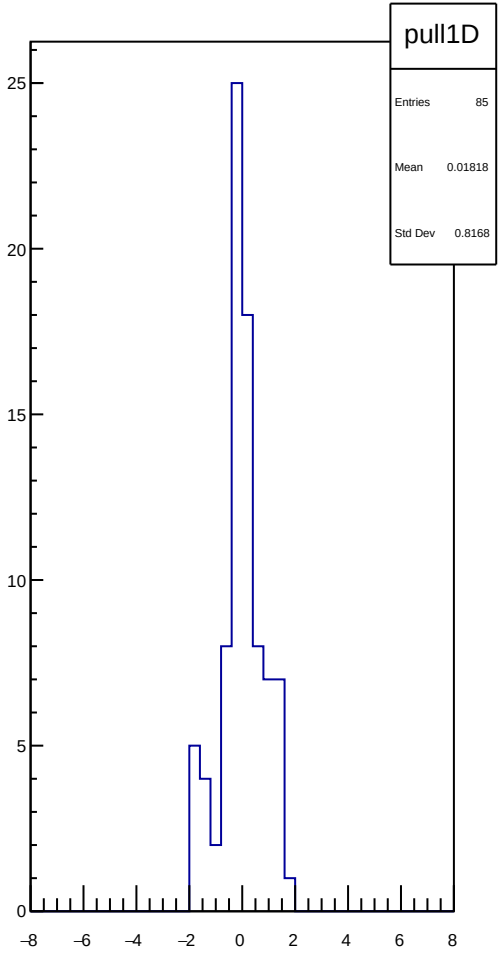

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 321.4 / 84
p0 957.9 ± 0.7465
1010
1000
990
980
970
960
950
940
930
920

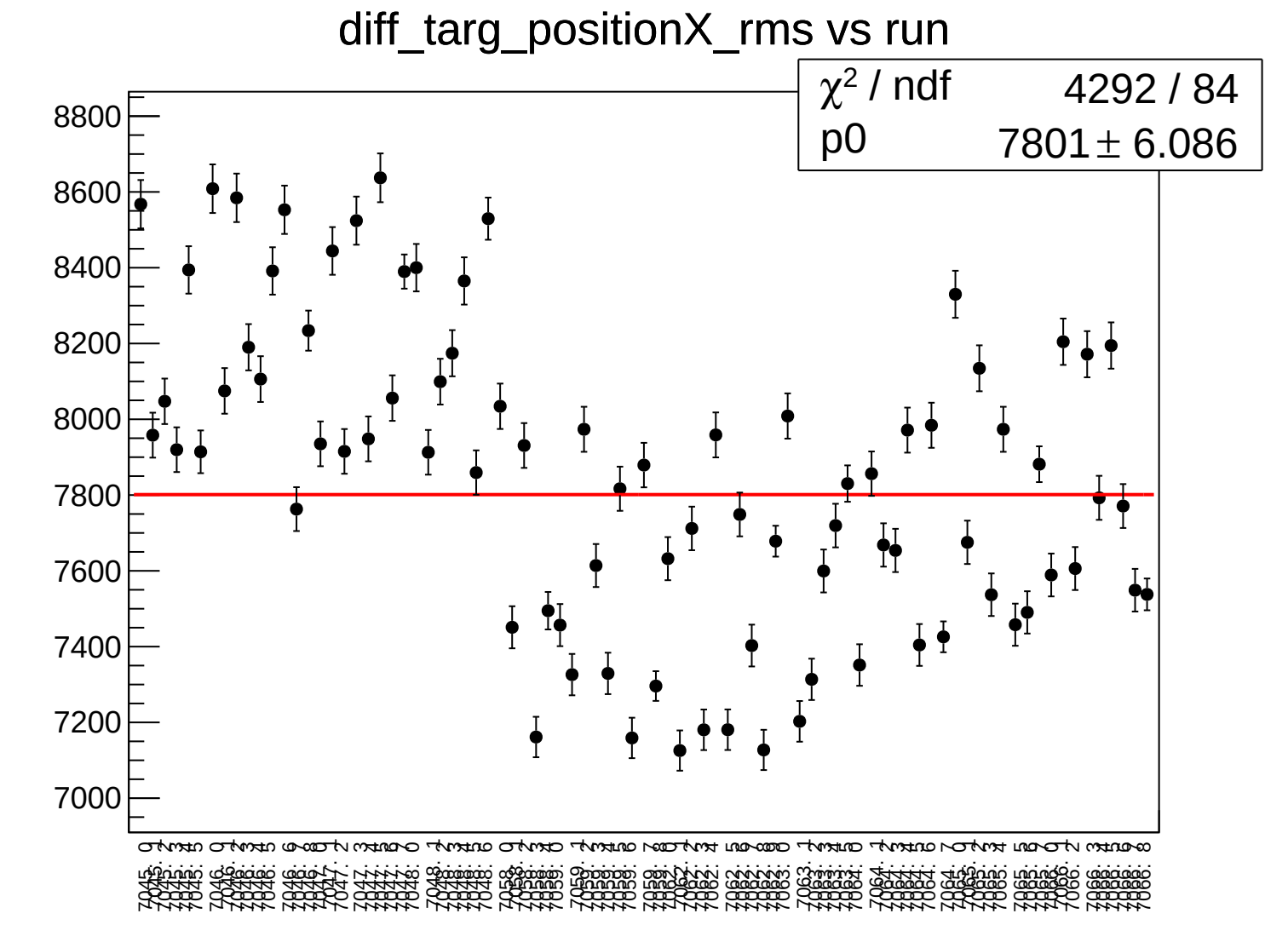

diff_dispE_bpm12X_mean vs run
χ² / ndf 81.69 / 84
p0 −0.00198 ± 0.01015
pull
Entries 85
Mean 174
Std Dev 0

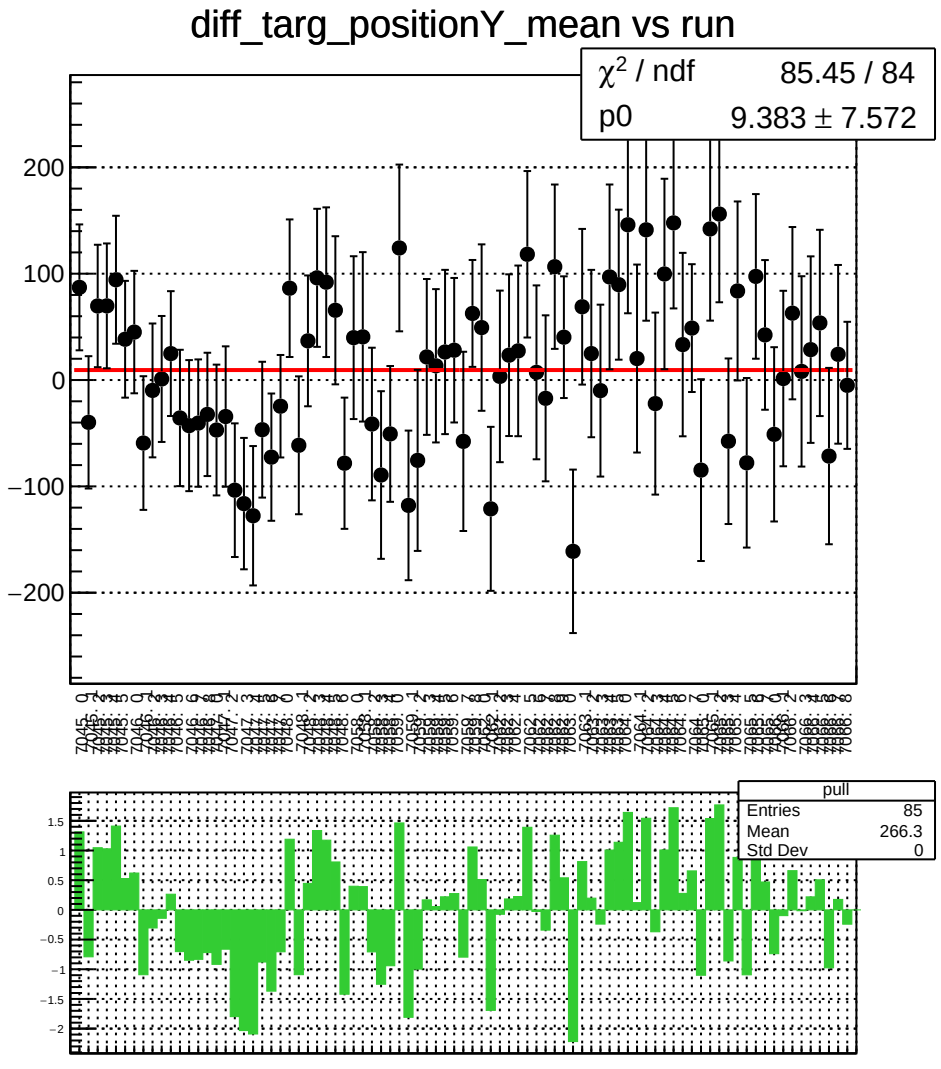

pull1D
Entries 85
Mean −0.04547
Std Dev 0.9793

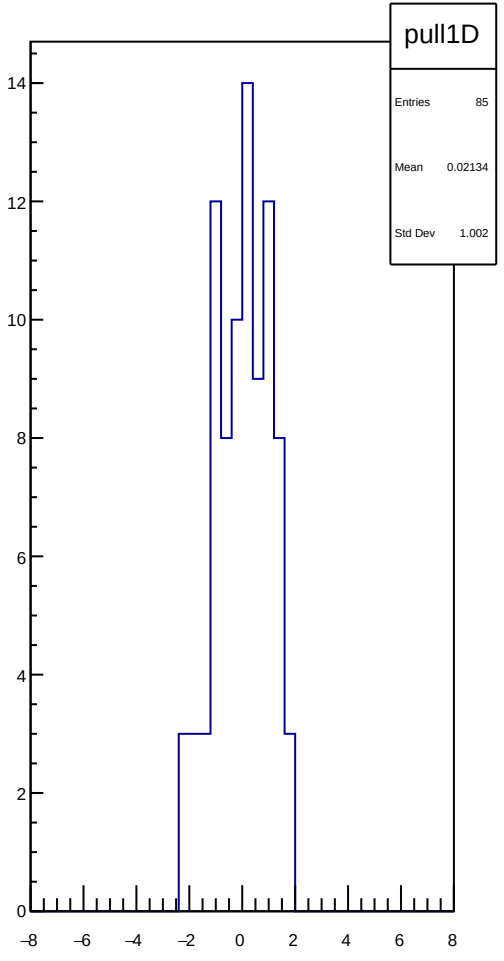

diff_dispE_bpm12X_rms vs run
χ² / ndf 2.922e+04 / 84
p0 9.13 ± 0.007178
12
11
10
9
8
7

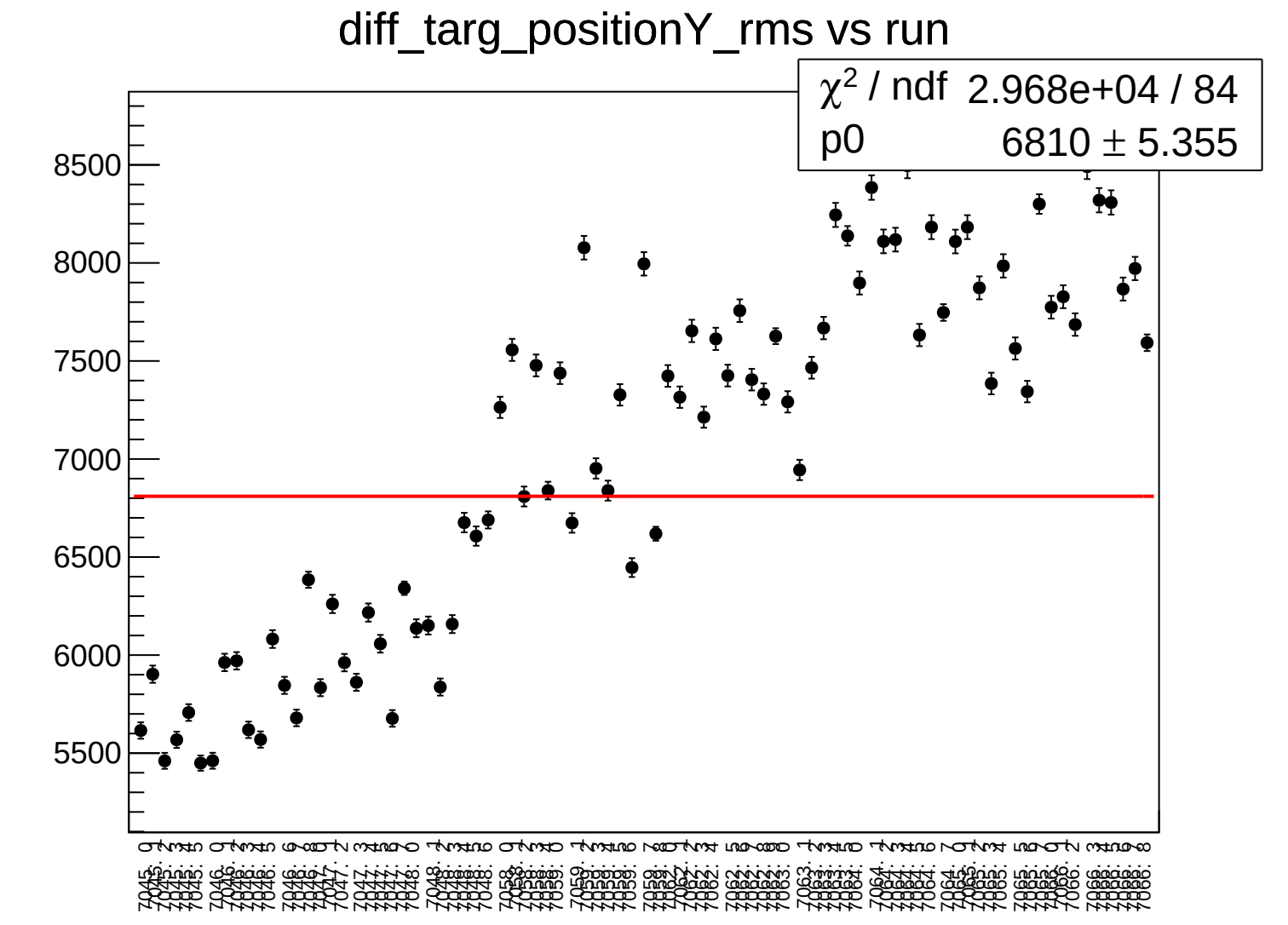

diff_targ_positionX_mean vs run
χ² / ndf 56.74 / 84
p0 −10.06 ± 8.607
pull
Entries 85
Mean −138.6
Std Dev 0

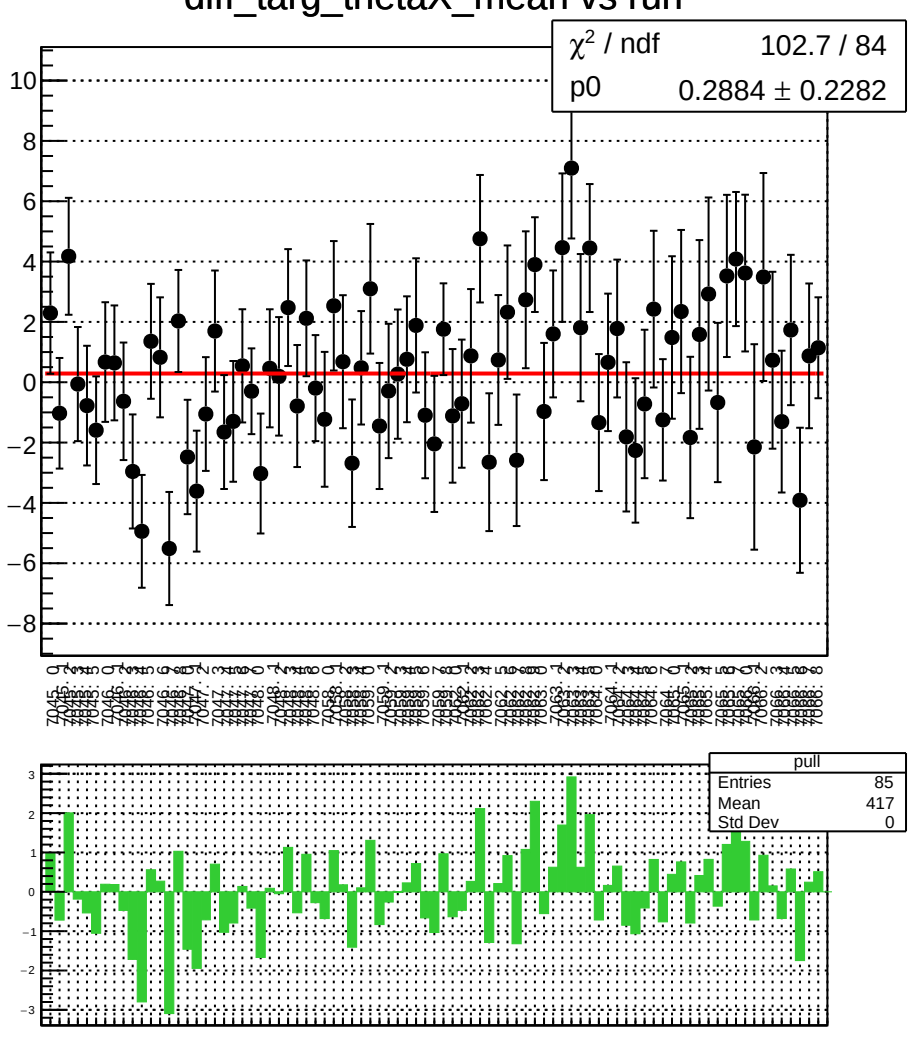

pull1D
Entries 85
Mean 0.01818
Std Dev 0.8168

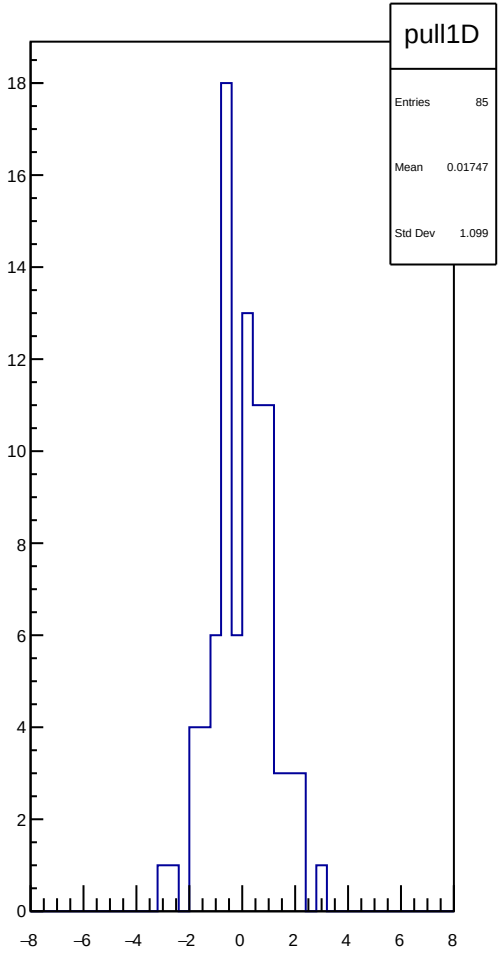

diff_targ_positionX_rms vs run
χ² / ndf 4292 / 84
p0 7801 ± 6.086
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

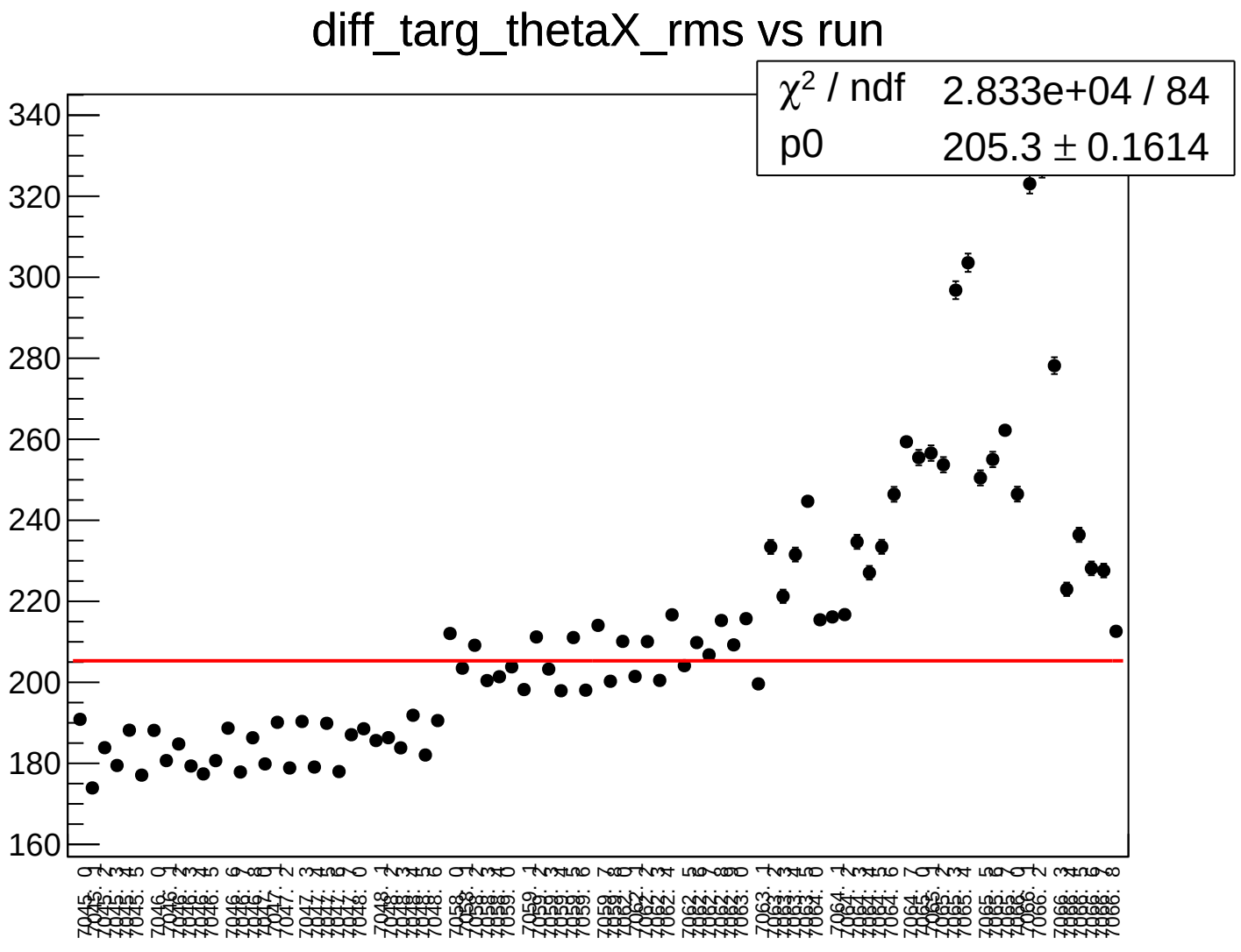

diff_targ_positionY_mean vs run
χ² / ndf 85.45 / 84
p0 9.383 ± 7.572
200
100
0
−100
−200
pull
Entries 85
Mean 266.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

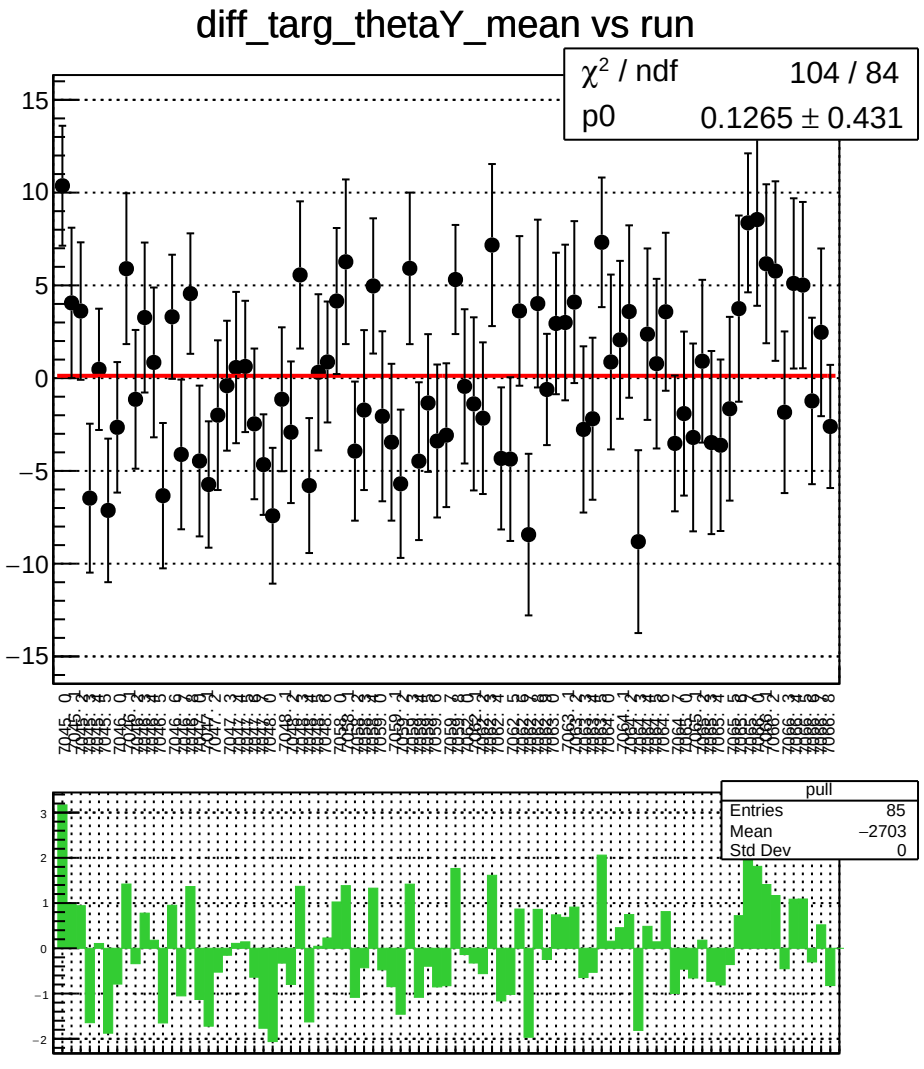

pull1D
Entries 85
Mean 0.02134
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

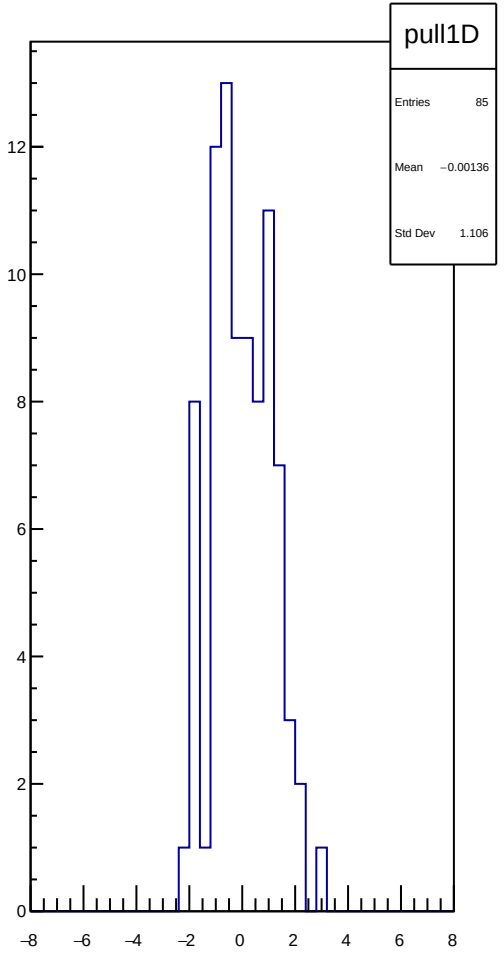

diff_targ_positionY_rms vs run
χ^2 / ndf 2.968e+04 / 84
p0 6810 ± 5.355
8500
8000
7500
7000
6500
6000
5500

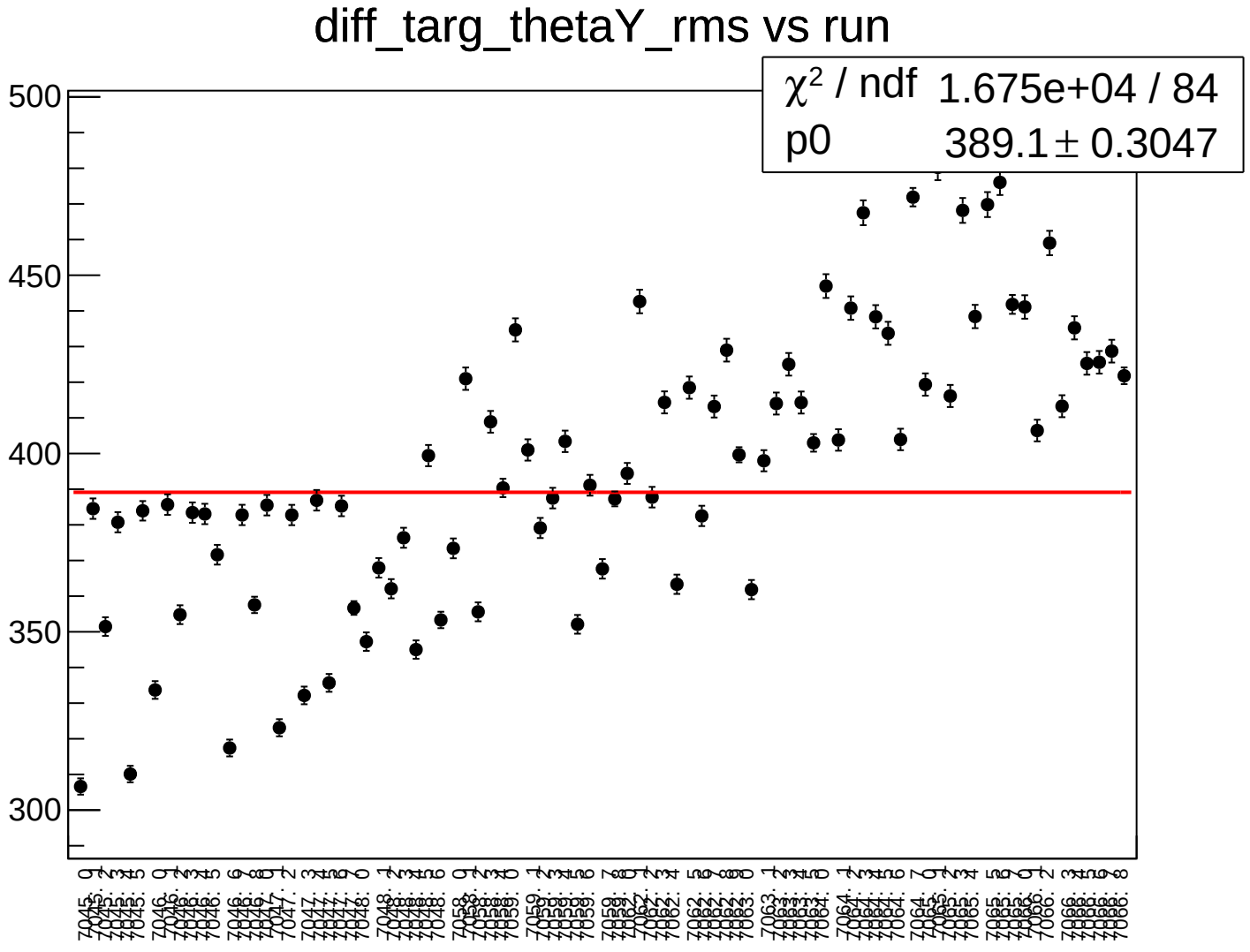

diff_targ_thetaX_mean vs run
χ² / ndf 102.7 / 84
p0 0.2884 ± 0.2282
pull
Entries 85
Mean 417
Std Dev 0

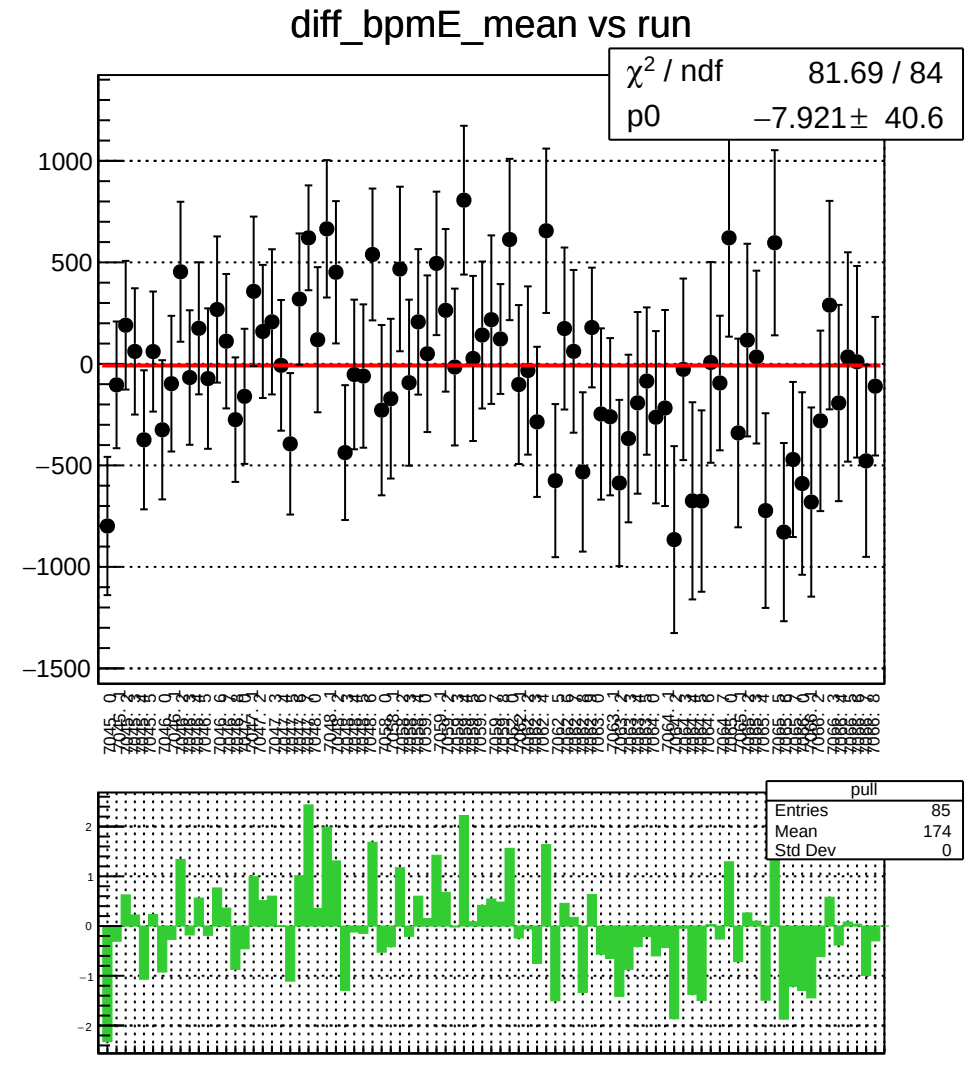

pull1D
Entries 85
Mean 0.01747
Std Dev 1.099

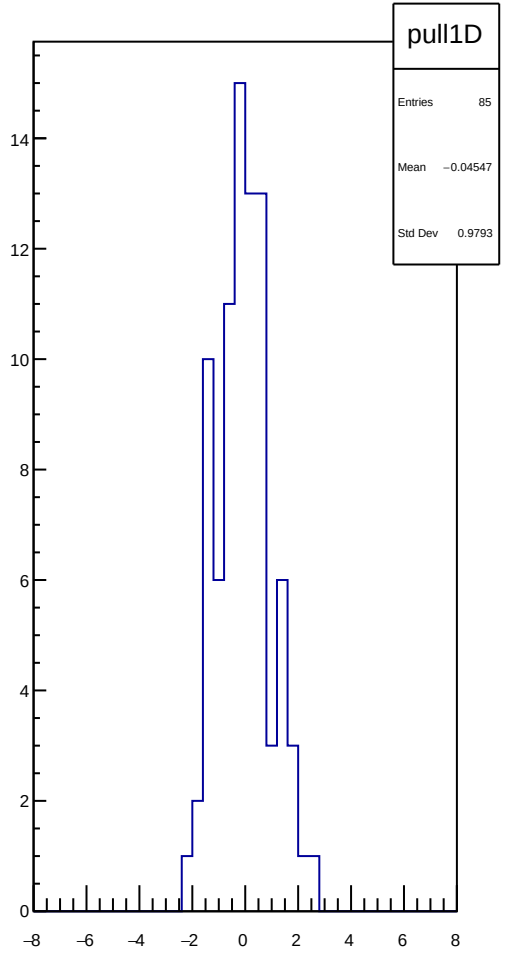

diff_targ_thetaX_rms vs run
χ² / ndf 2.833e+04 / 84
p0 205.3 ± 0.1614
340
320
300
280
260
240
220
200
180
160

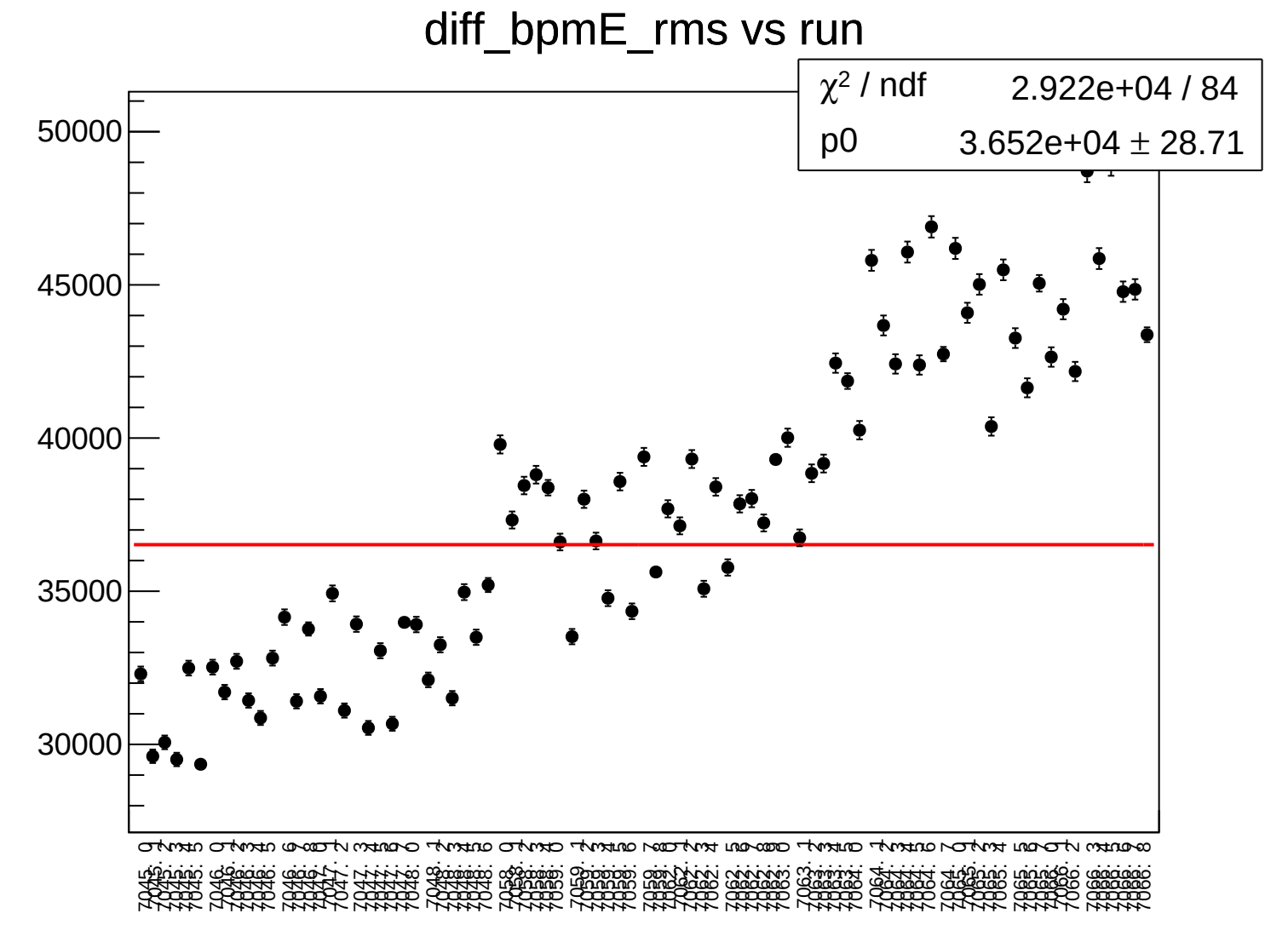

diff_targ_thetaY_mean vs run
χ² / ndf 104 / 84
p0 0.1265 ± 0.431
pull
Entries 85
Mean −2703
Std Dev 0

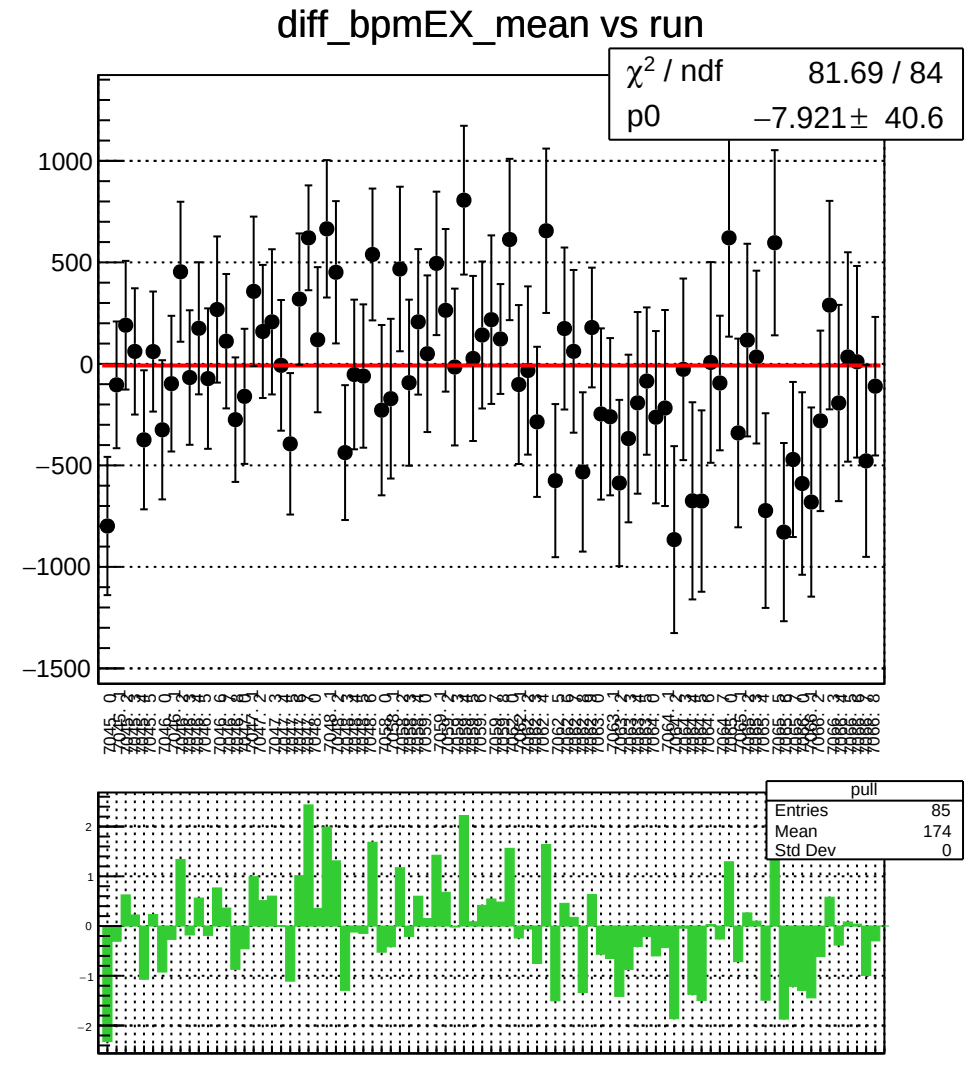

pull1D
Entries 85
Mean −0.00136
Std Dev 1.106

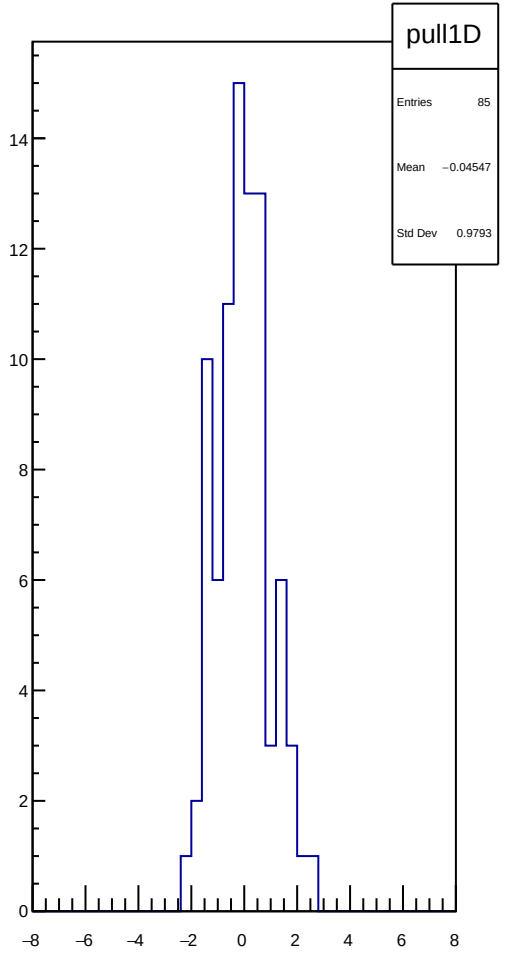

diff_targ_thetaY_rms vs run
χ² / ndf 1.675e+04 / 84
p0 389.1 ± 0.3047
500
450
400
350
300

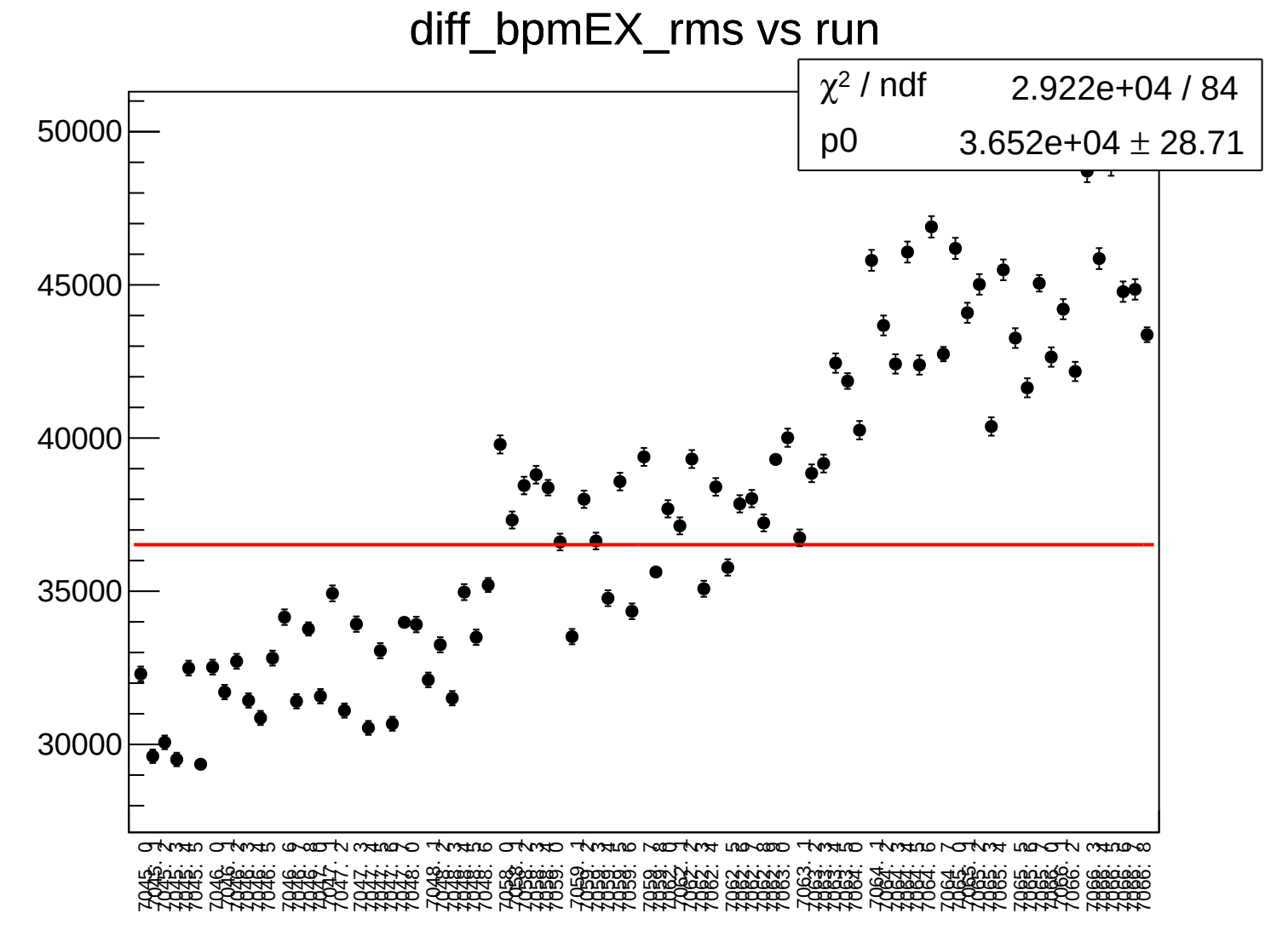

diff_bpmE_mean vs run
χ² / ndf 81.69 / 84
p0 −7.921± 40.6
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 174
Std Dev 0
2
1
0
−1
−2

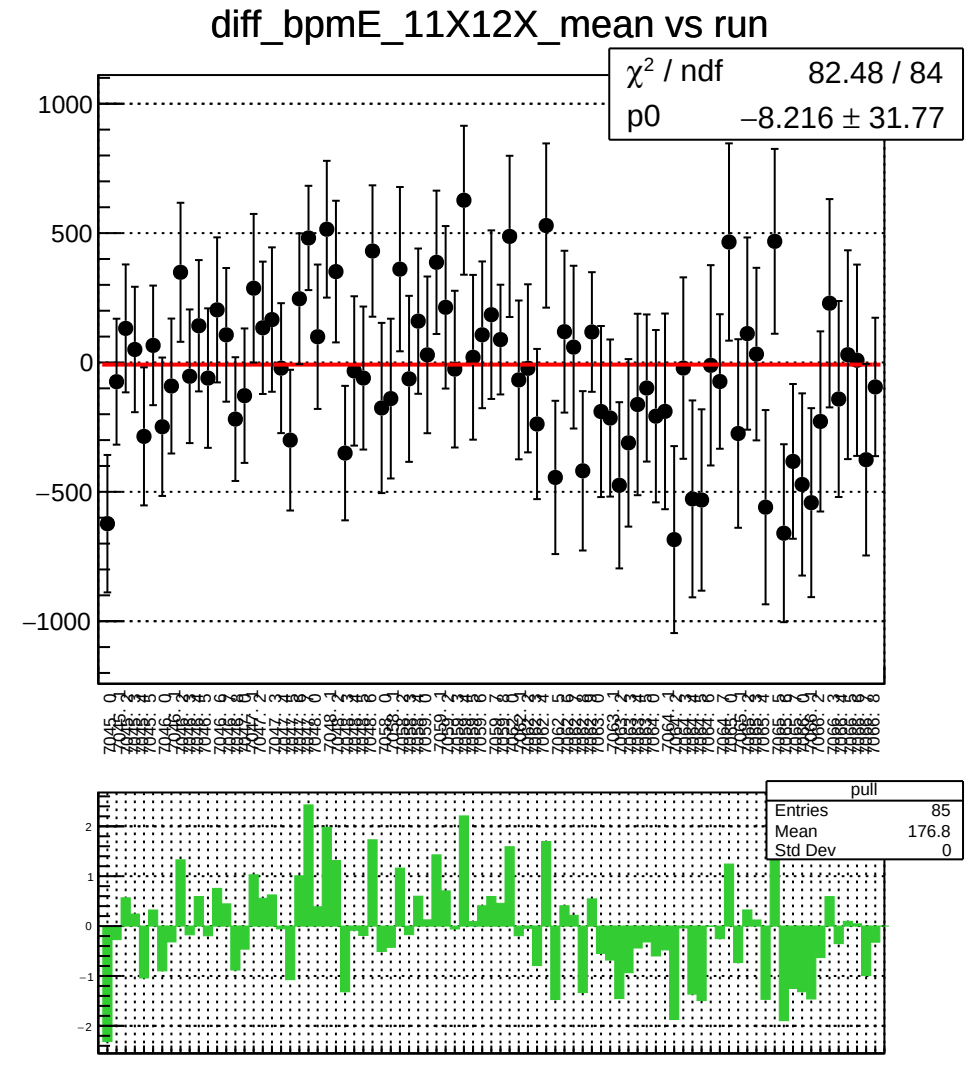

pull1D
Entries 85
Mean −0.04547
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

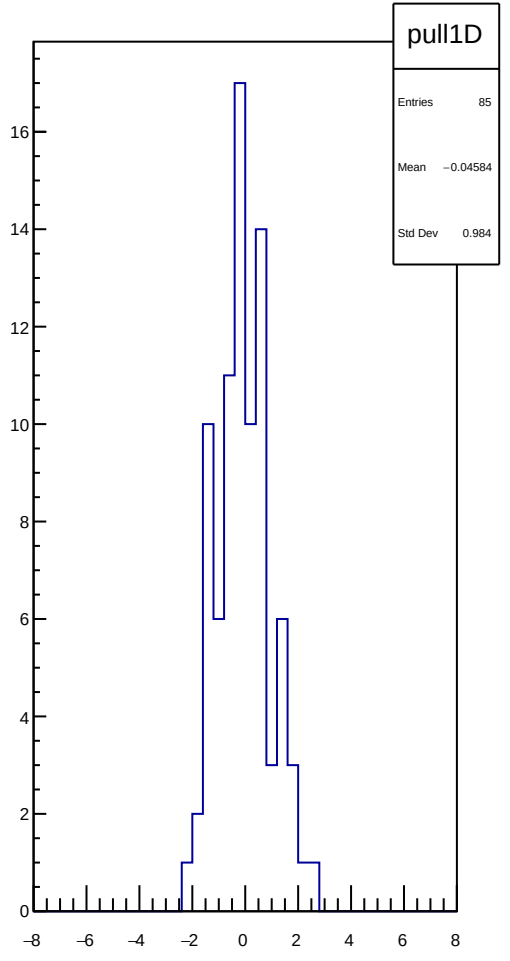

diff_bpmE_rms vs run
χ² / ndf 2.922e+04 / 84
p0 3.652e+04 ± 28.71
50000
45000
40000
35000
30000

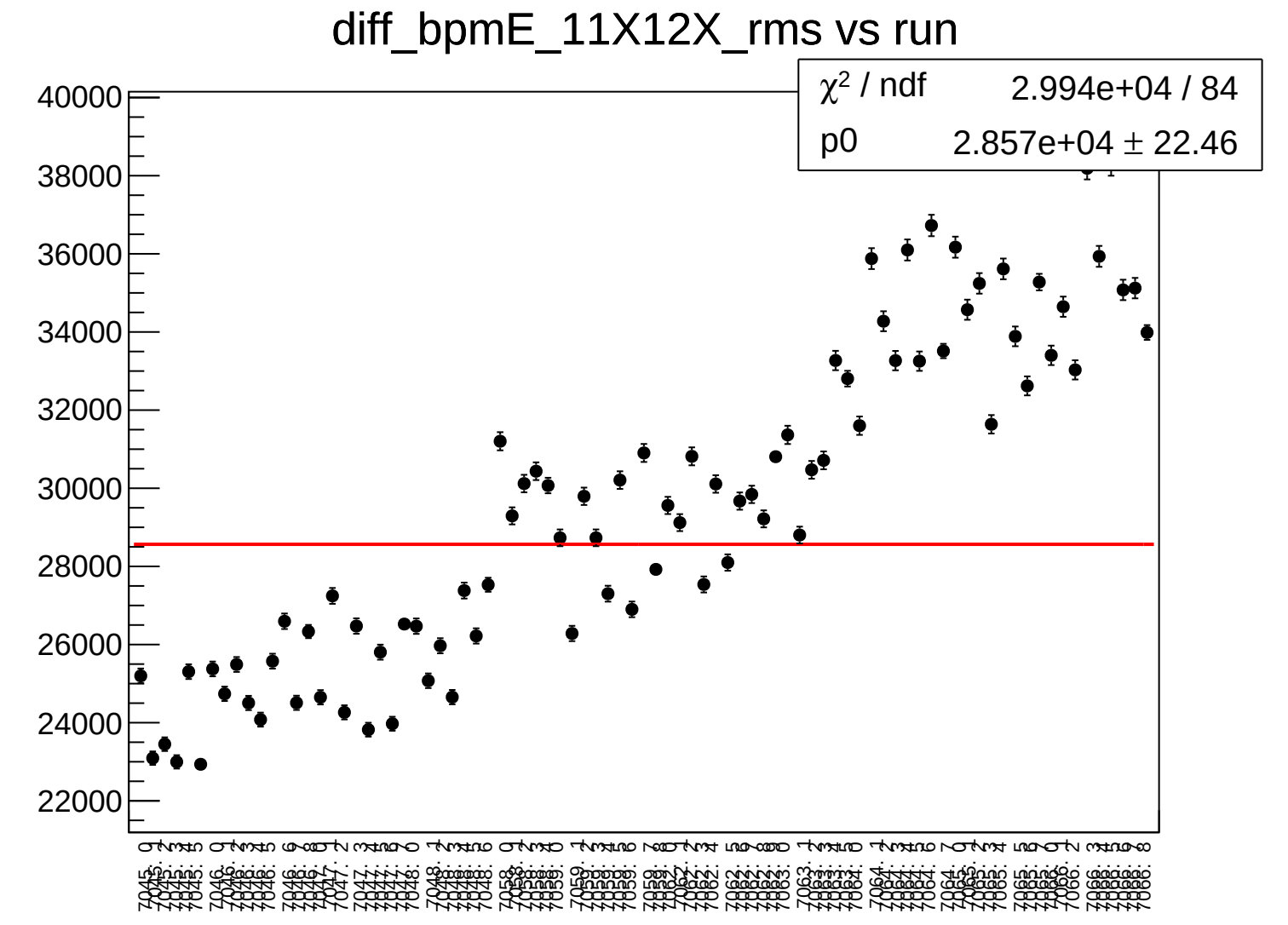

diff_bpmEX_mean vs run
χ² / ndf 81.69 / 84
p0 −7.921± 40.6
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 174
Std Dev 0
2
1
0
−1
−2

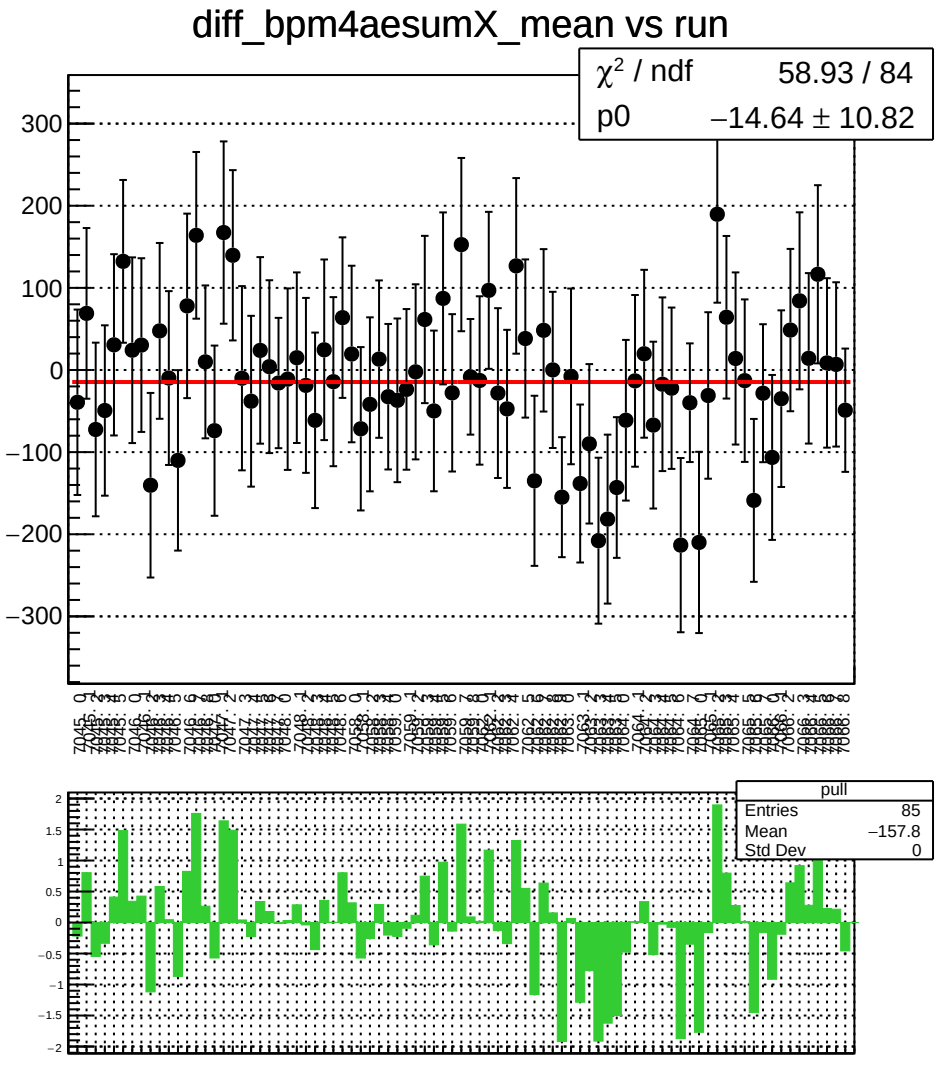

pull1D
Entries 85
Mean −0.04547
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

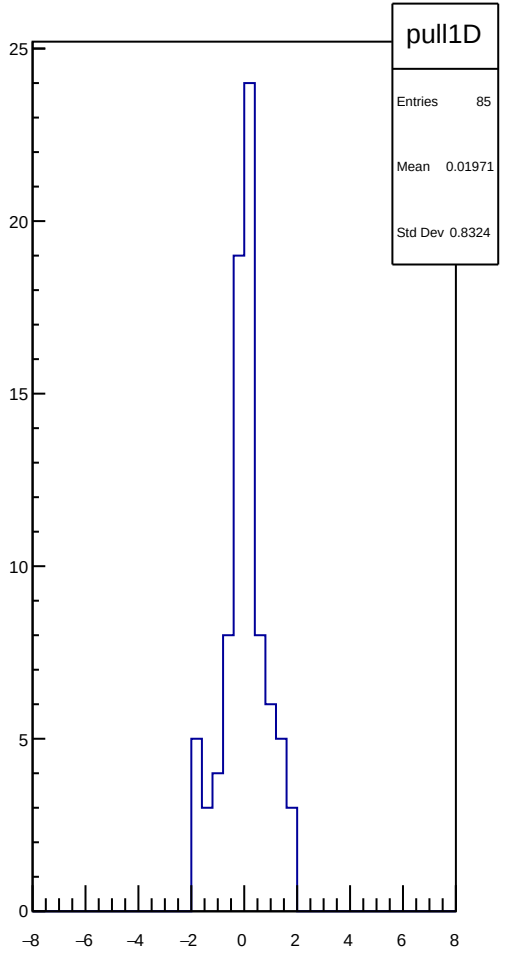

diff_bpmEX_rms vs run
χ² / ndf 2.922e+04 / 84
p0 3.652e+04 ± 28.71
50000
45000
40000
35000
30000

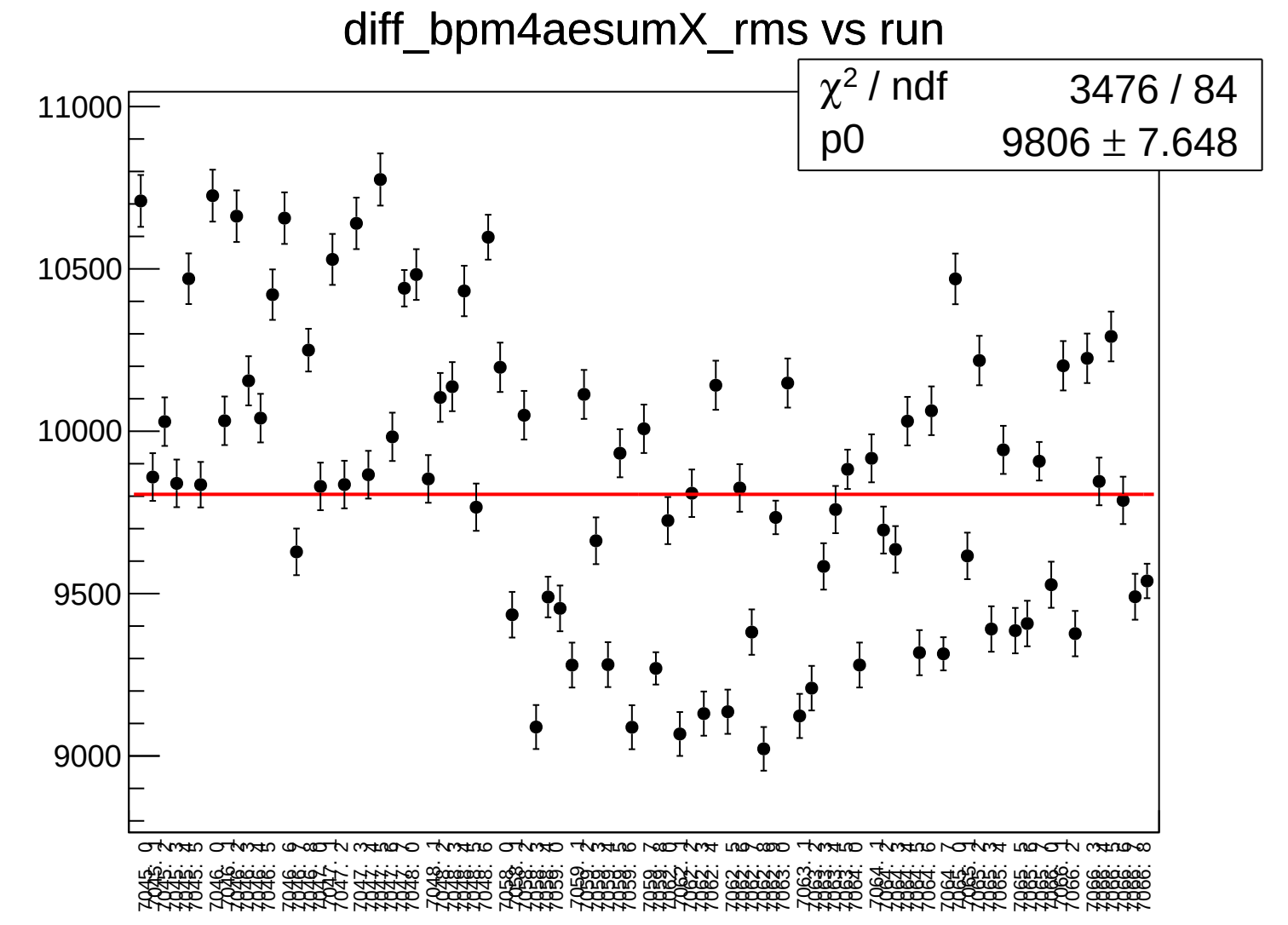

diff_bpmE_11X12X_mean vs run
χ² / ndf 82.48 / 84
p0 −8.216 ± 31.77
1000
500
0
−500
−1000
pull
Entries 85
Mean 176.8
Std Dev 0
2
1
0
−1
−2

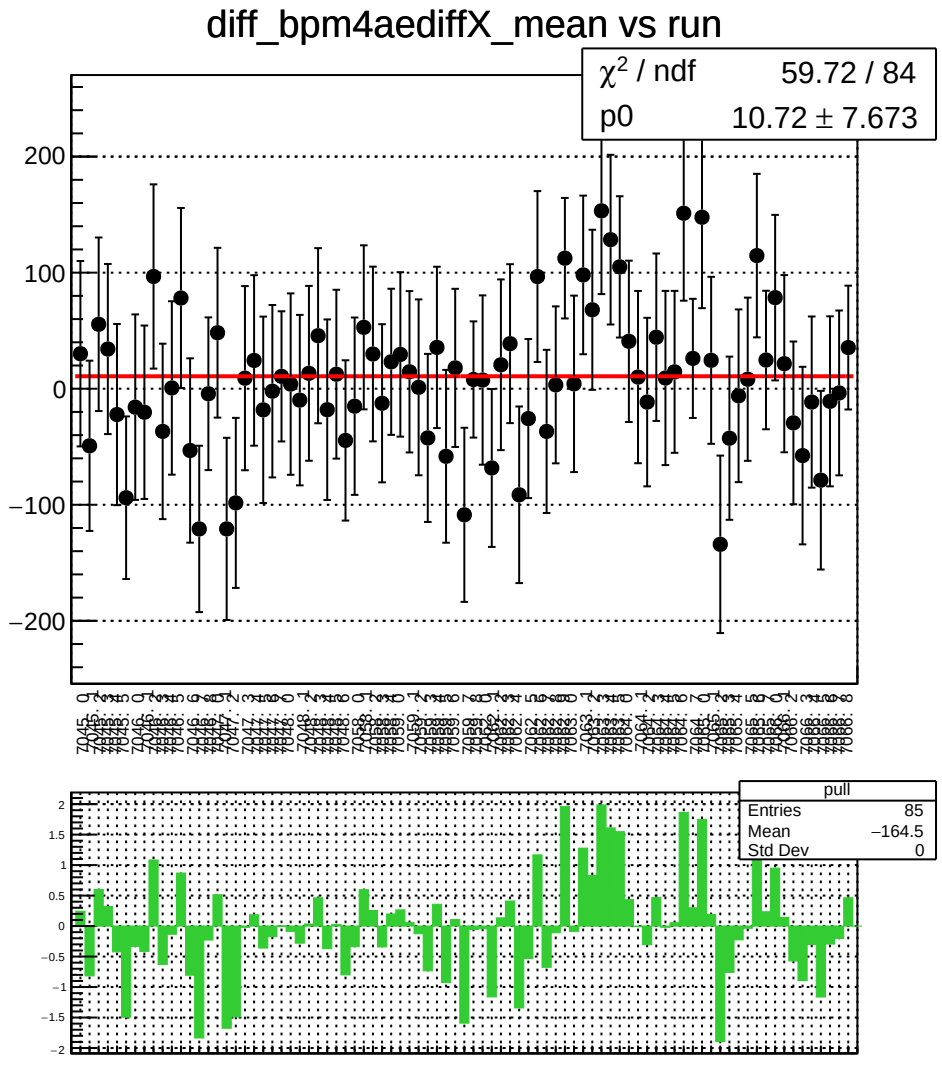

pull1D
Entries 85
Mean −0.04584
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

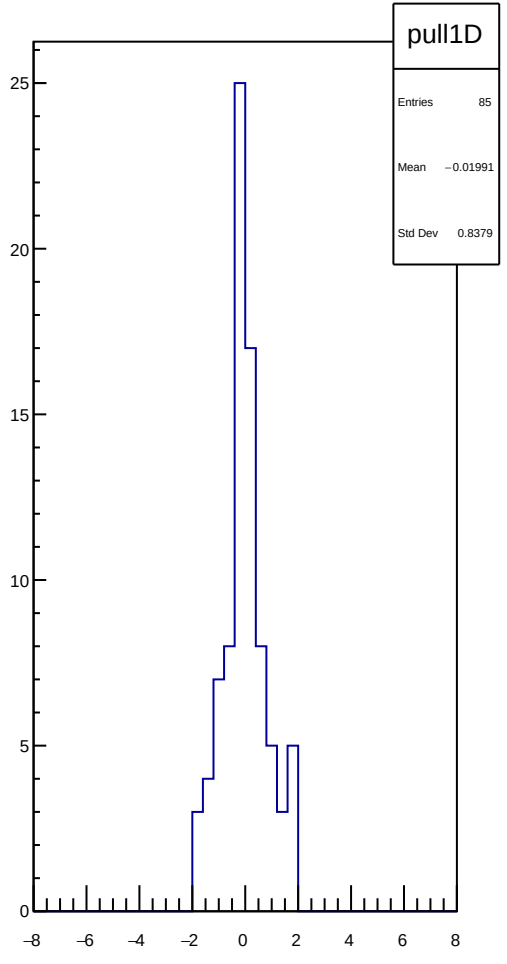

diff_bpmE_11X12X_rms vs run
χ² / ndf 2.994e+04 / 84
p0 2.857e+04 ± 22.46
40000
38000
36000
34000
32000
30000
28000
26000
24000
22000

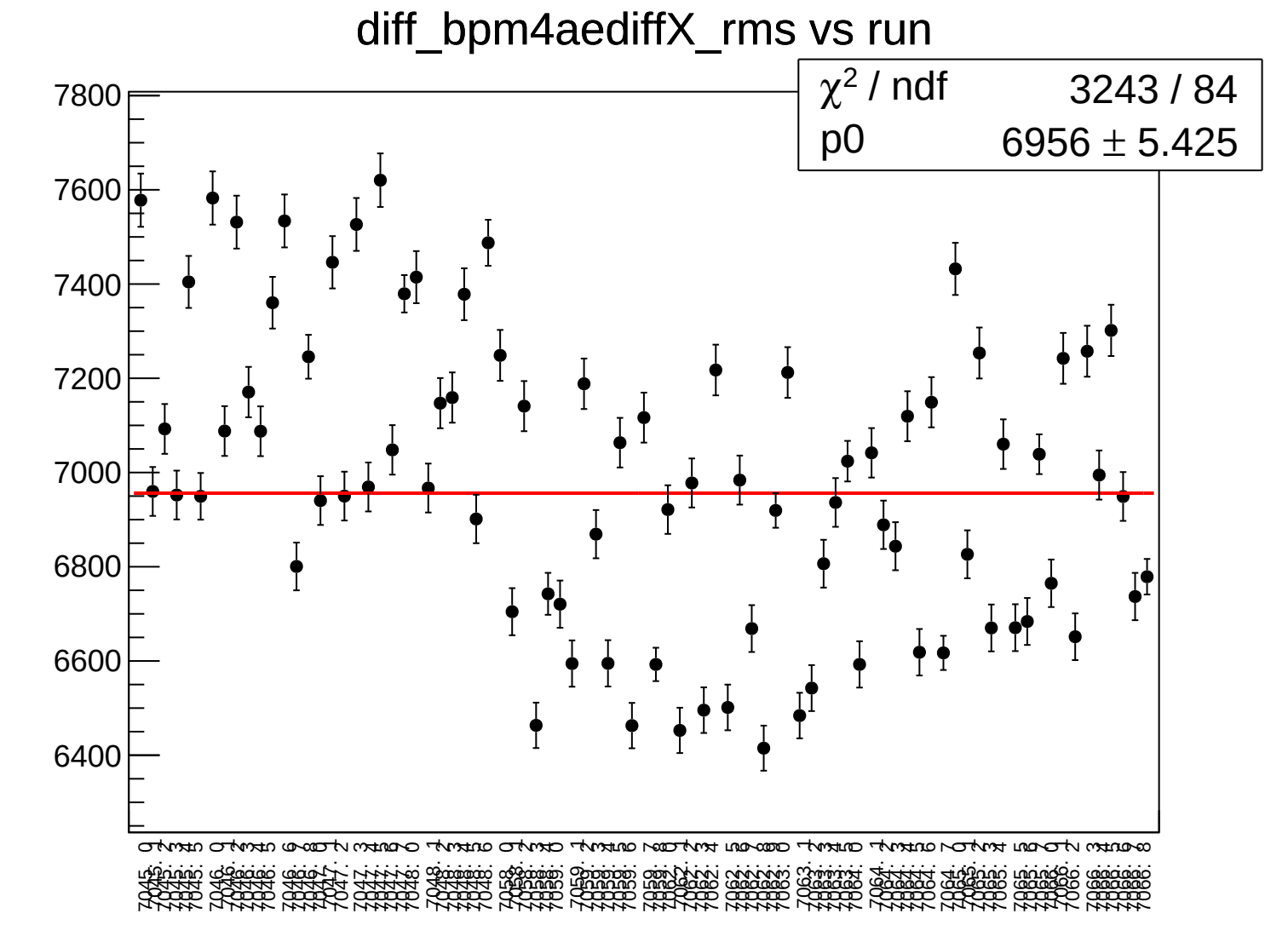

diff_bpm4aesumX_mean vs run
χ² / ndf 58.93 / 84
p0 −14.64 ± 10.82
pull
Entries 85
Mean −157.8
Std Dev 0

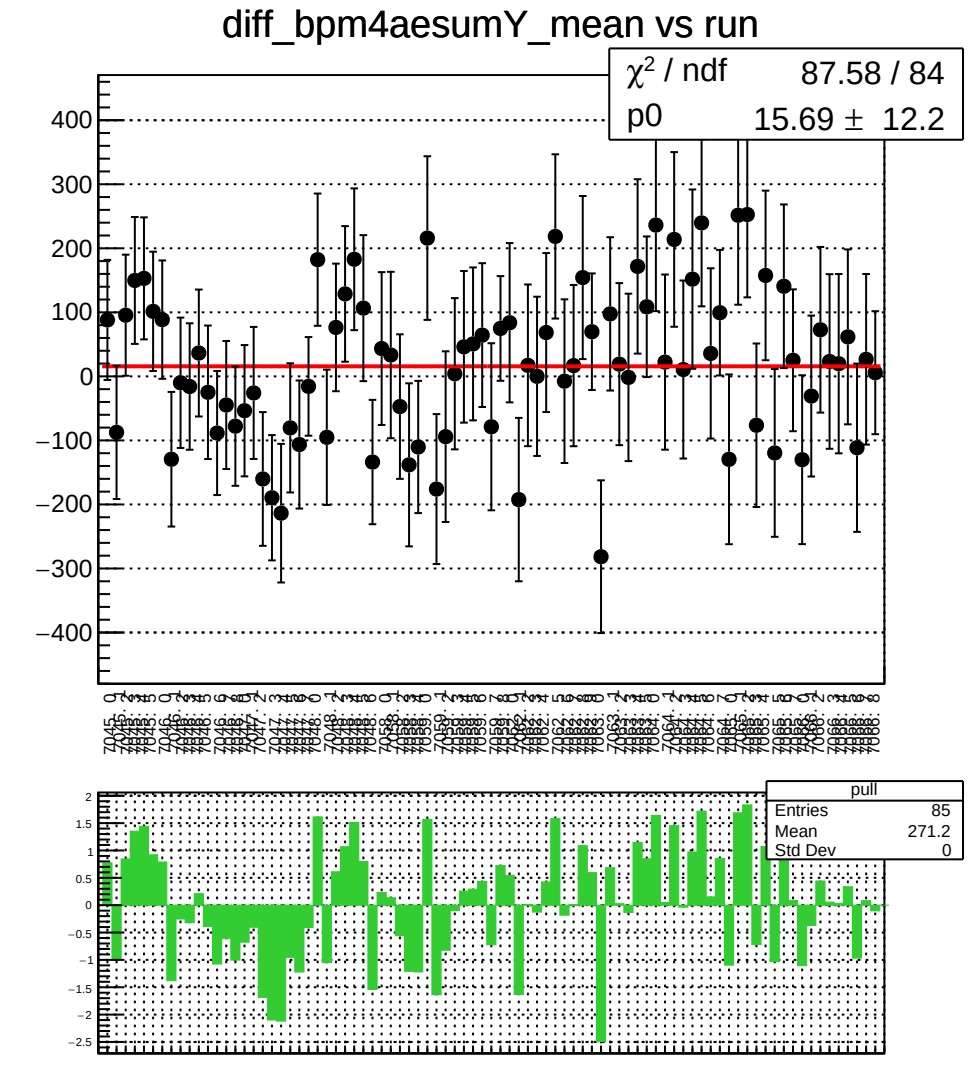

pull1D
Entries 85
Mean 0.01971
Std Dev 0.8324

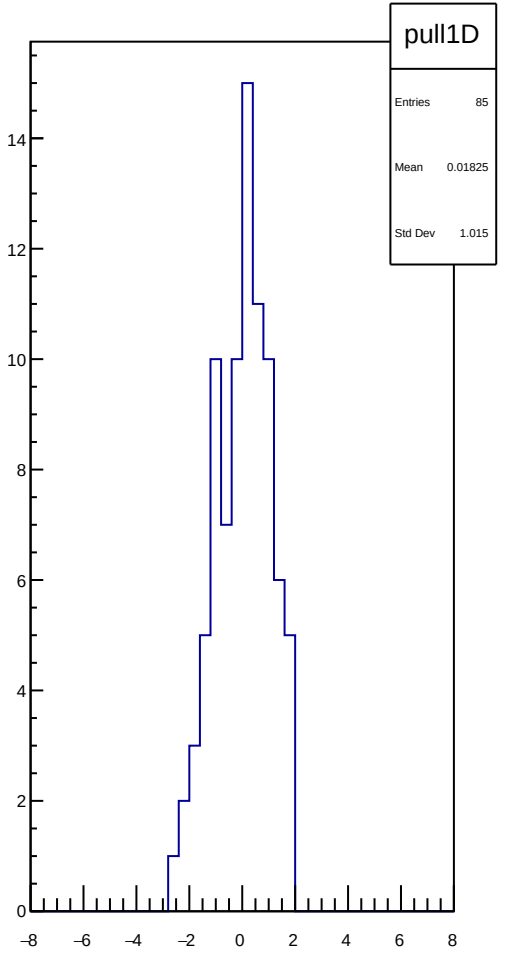

diff_bpm4aesumX_rms vs run
χ² / ndf 3476 / 84
p0 9806 ± 7.648
11000
10500
10000
9500
9000

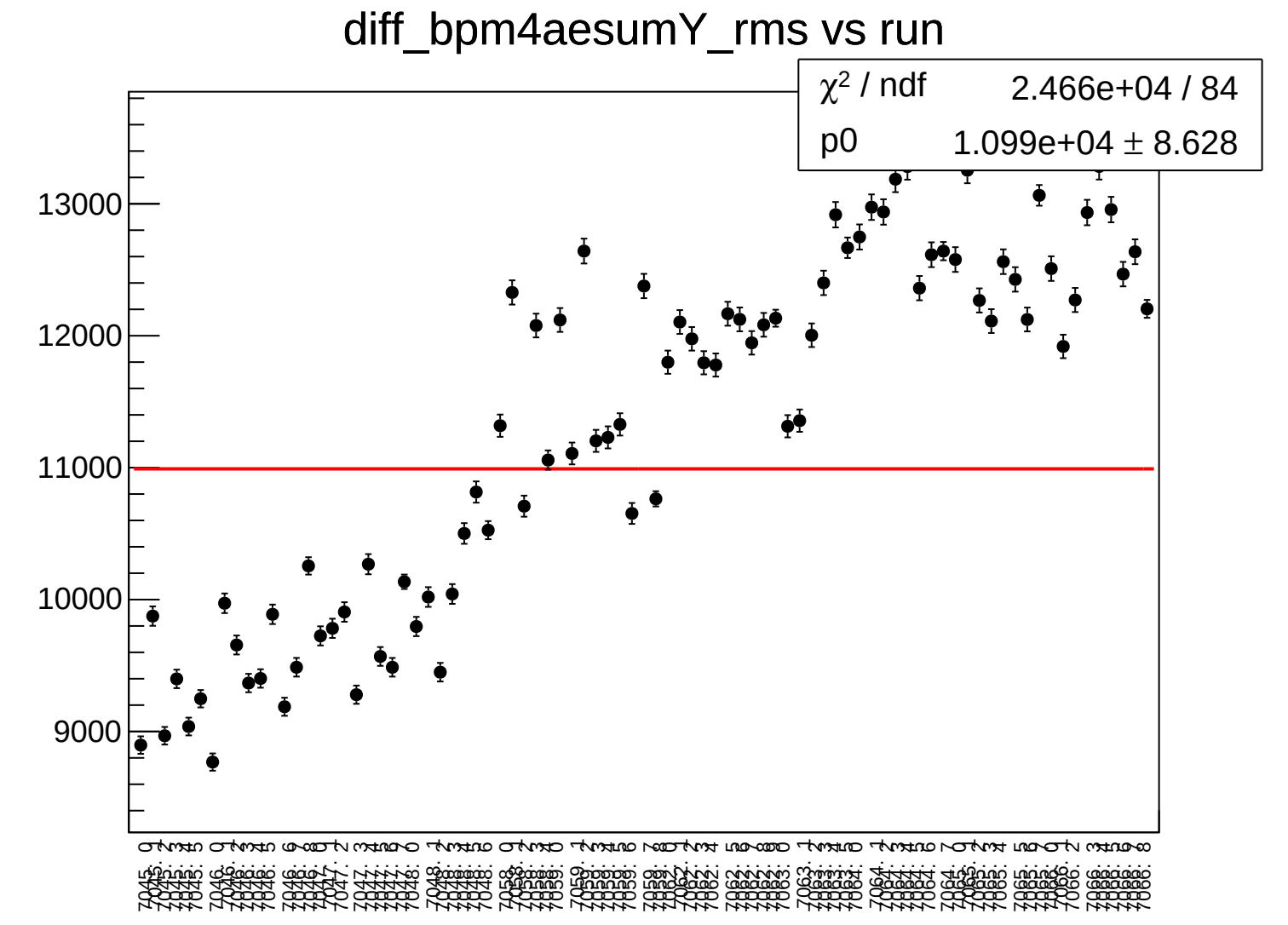

diff_bpm4aediffX_mean vs run
χ^2 / ndf 59.72 / 84
p0 10.72 ± 7.673
200
100
0
−100
−200
pull
Entries 85
Mean −164.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

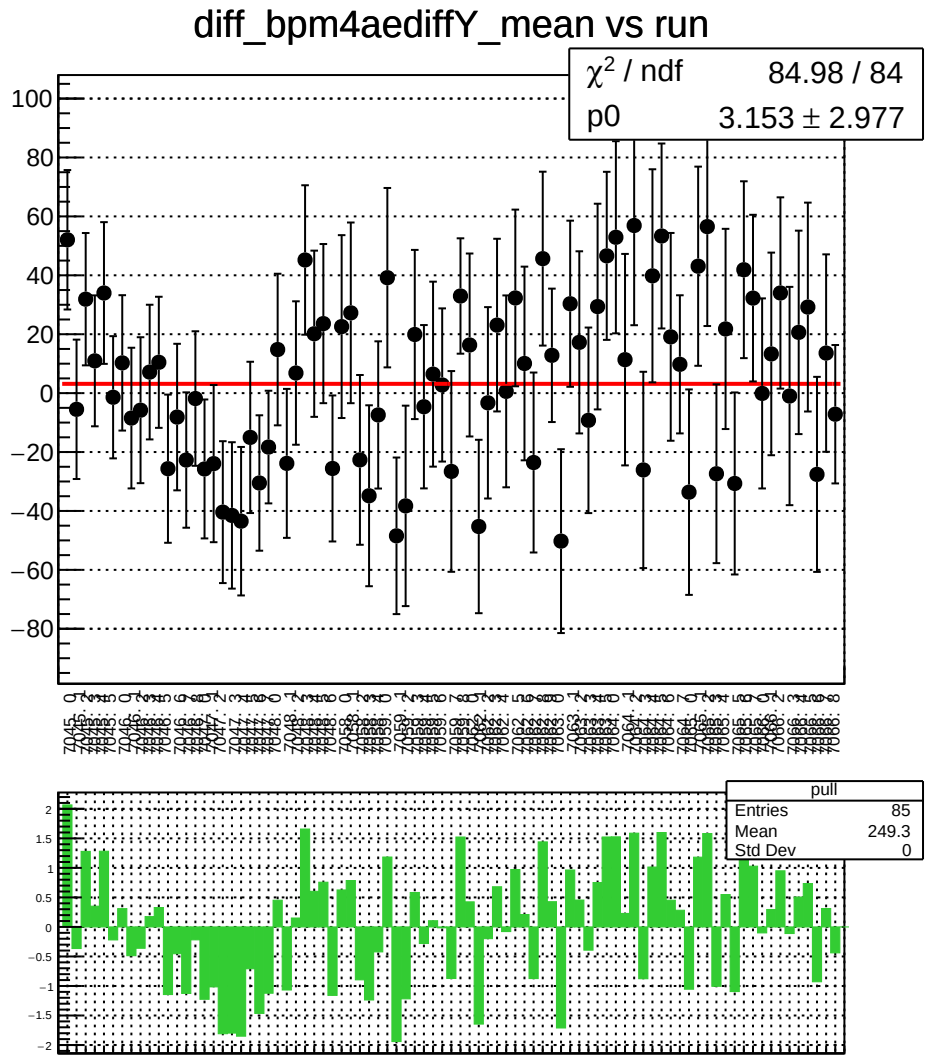

pull1D
Entries 85
Mean −0.01991
Std Dev 0.8379
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

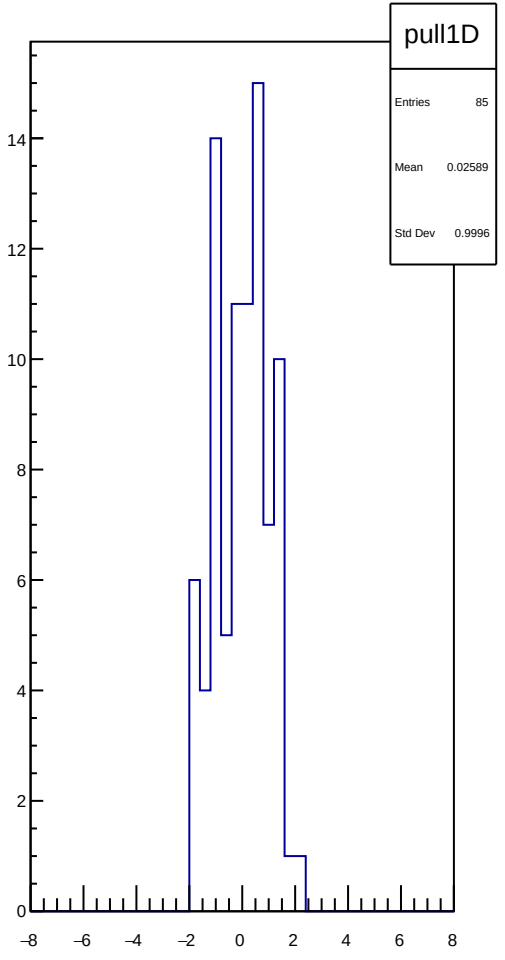

diff_bpm4aediffX_rms vs run
χ^2 / ndf 3243 / 84
p0 6956 ± 5.425
7800
7600
7400
7200
7000
6800
6600
6400

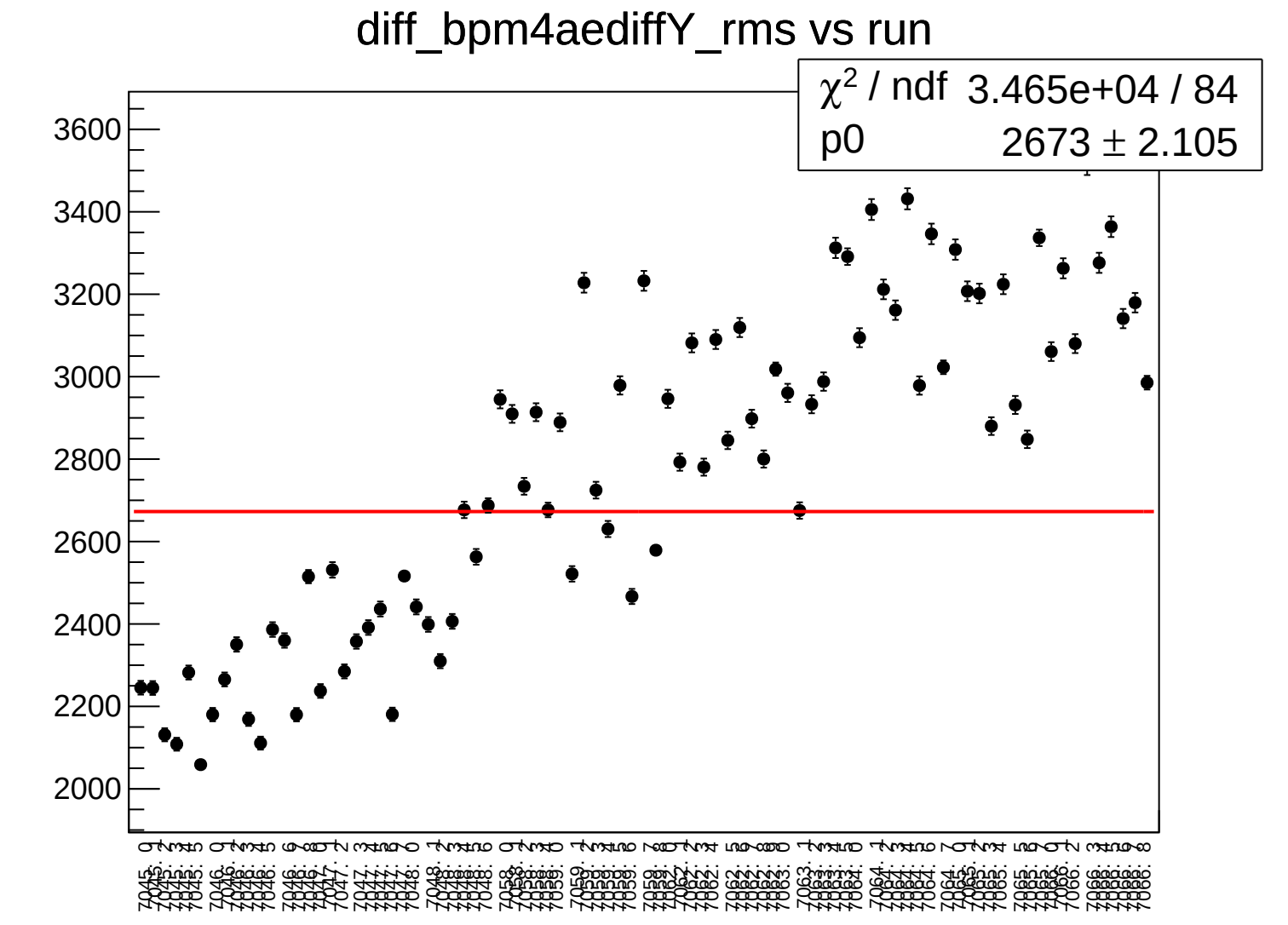

diff_bpm4aesumY_mean vs run
χ² / ndf 87.58 / 84
p0 15.69 ± 12.2
pull
Entries 85
Mean 271.2
Std Dev 0

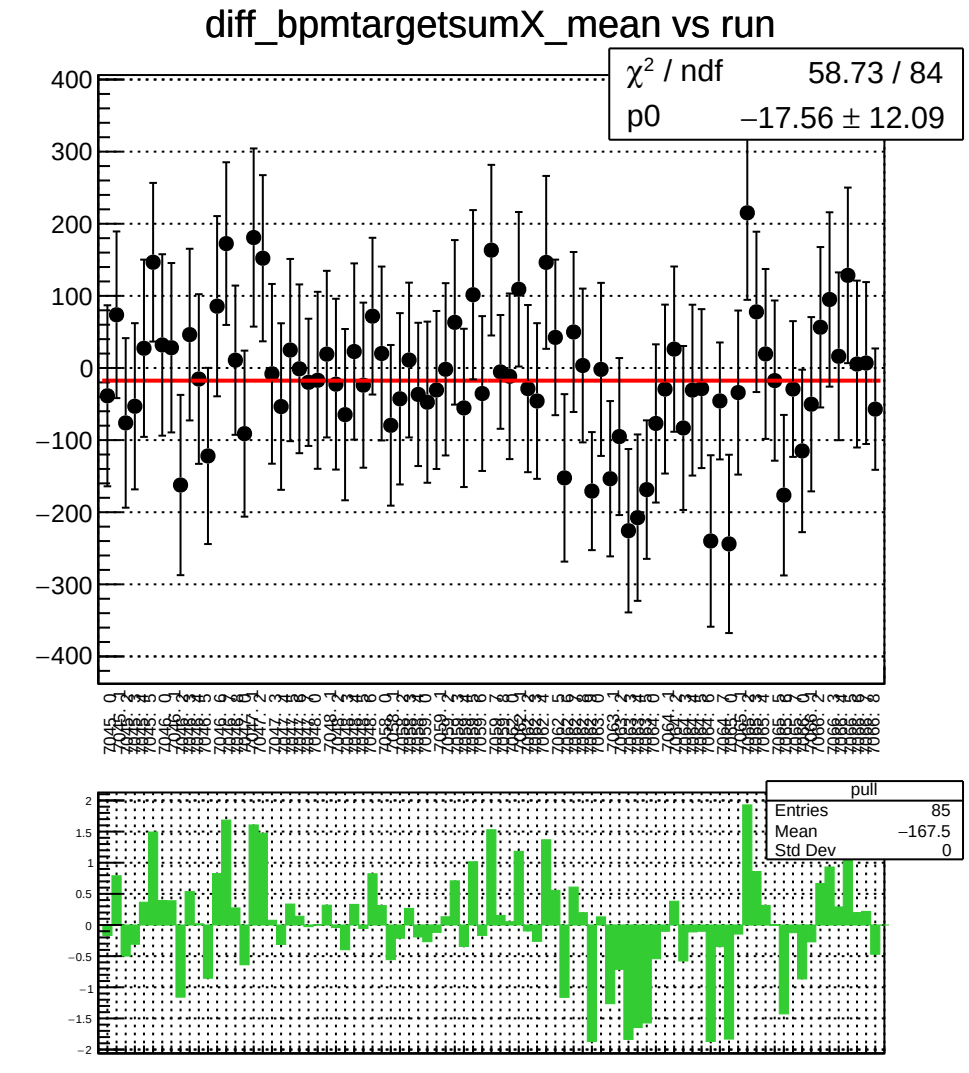

pull1D
Entries 85
Mean 0.01825
Std Dev 1.015

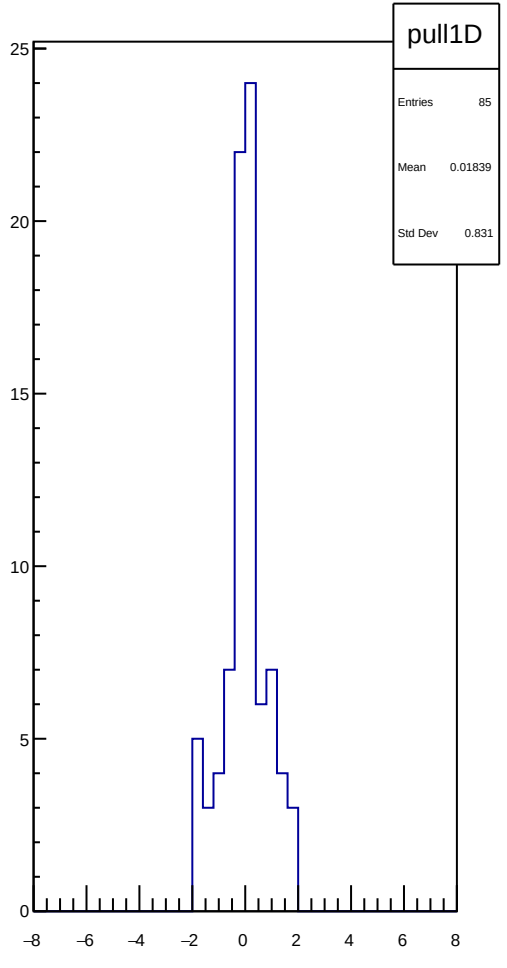

diff_bpm4aesumY_rms vs run
χ² / ndf 2.466e+04 / 84
p0 1.099e+04 ± 8.628
13000
12000
11000
10000
9000

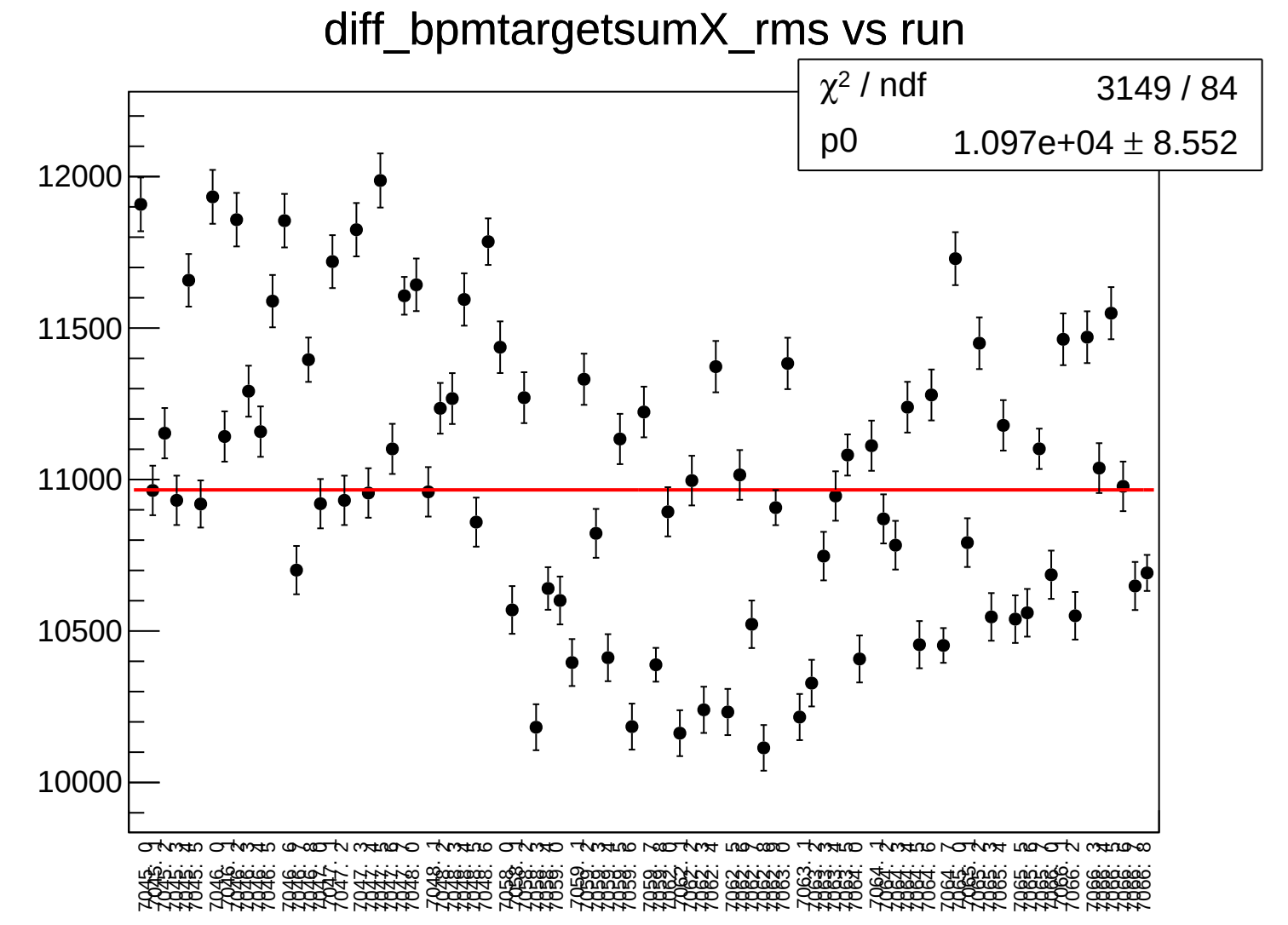

diff_bpm4aediffY_mean vs run
χ² / ndf 84.98 / 84
p0 3.153 ± 2.977
pull
Entries 85
Mean 249.3
Std Dev 0

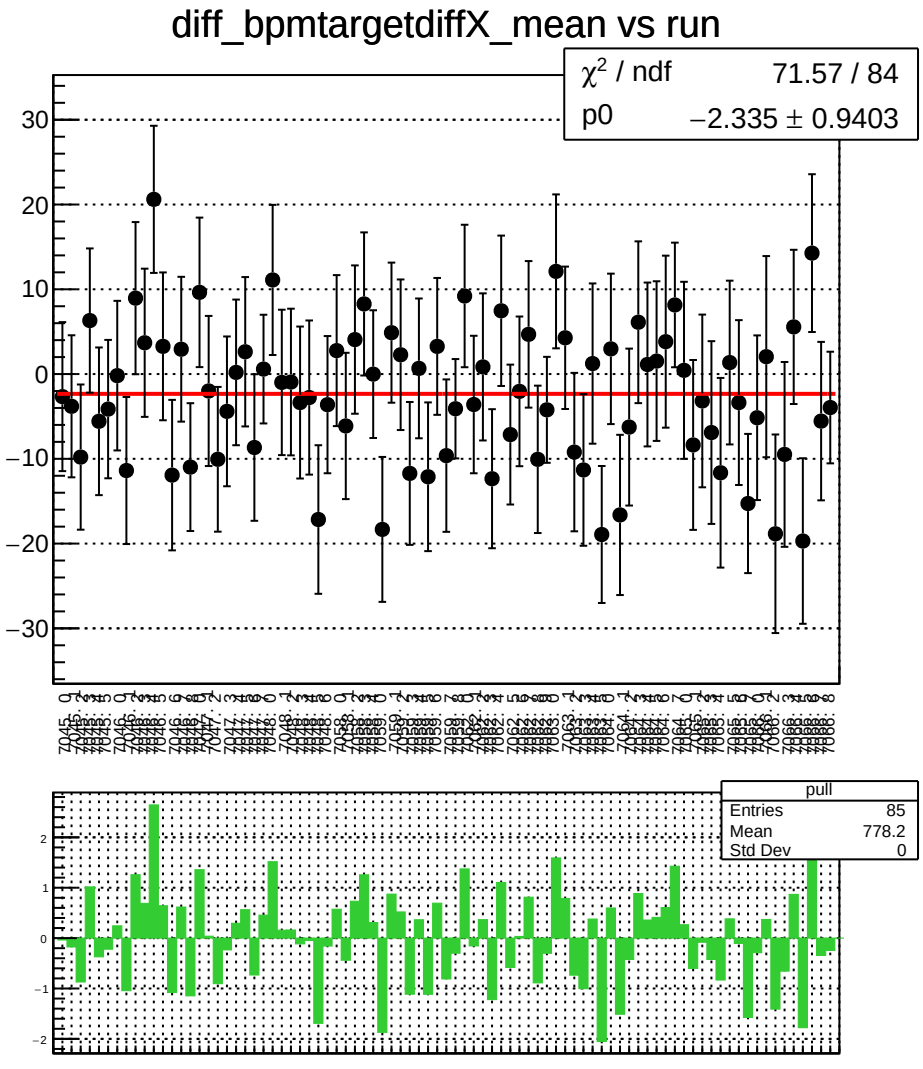

pull1D
Entries 85
Mean 0.02589
Std Dev 0.9996

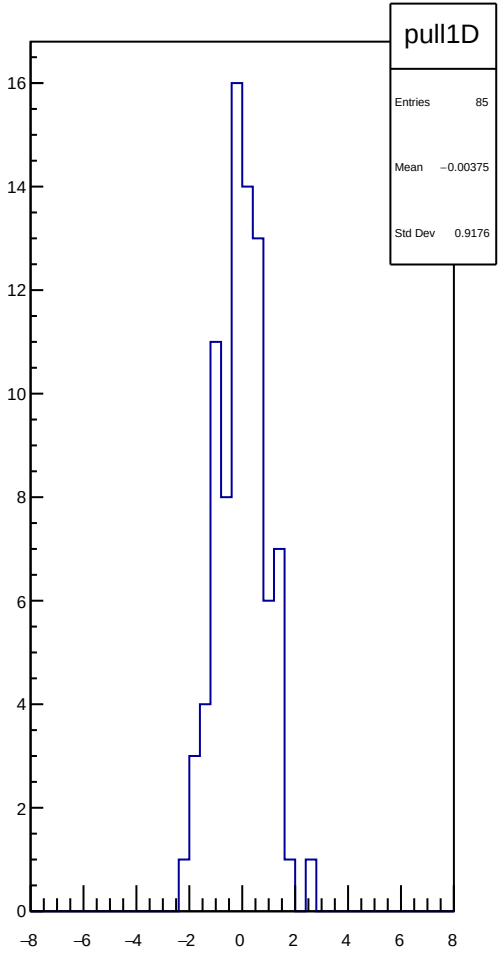

diff_bpm4aediffY_rms vs run
χ^2 / ndf 3.465e+04 / 84
p0 2673 ± 2.105
3600
3400
3200
3000
2800
2600
2400
2200
2000

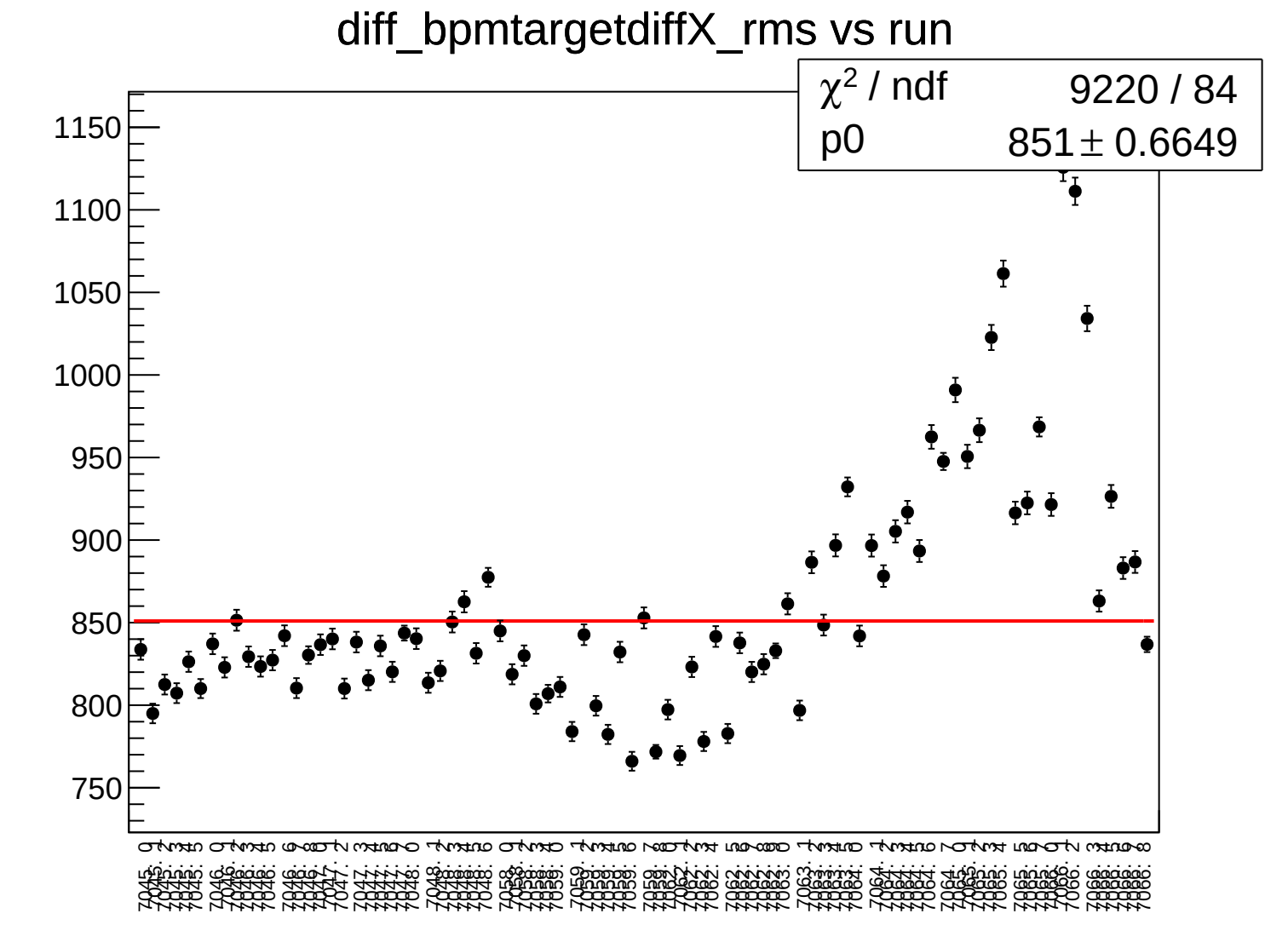

diff_bpmtargetsumX_mean vs run
χ² / ndf 58.73 / 84
p0 −17.56 ± 12.09
pull
Entries 85
Mean −167.5
Std Dev 0

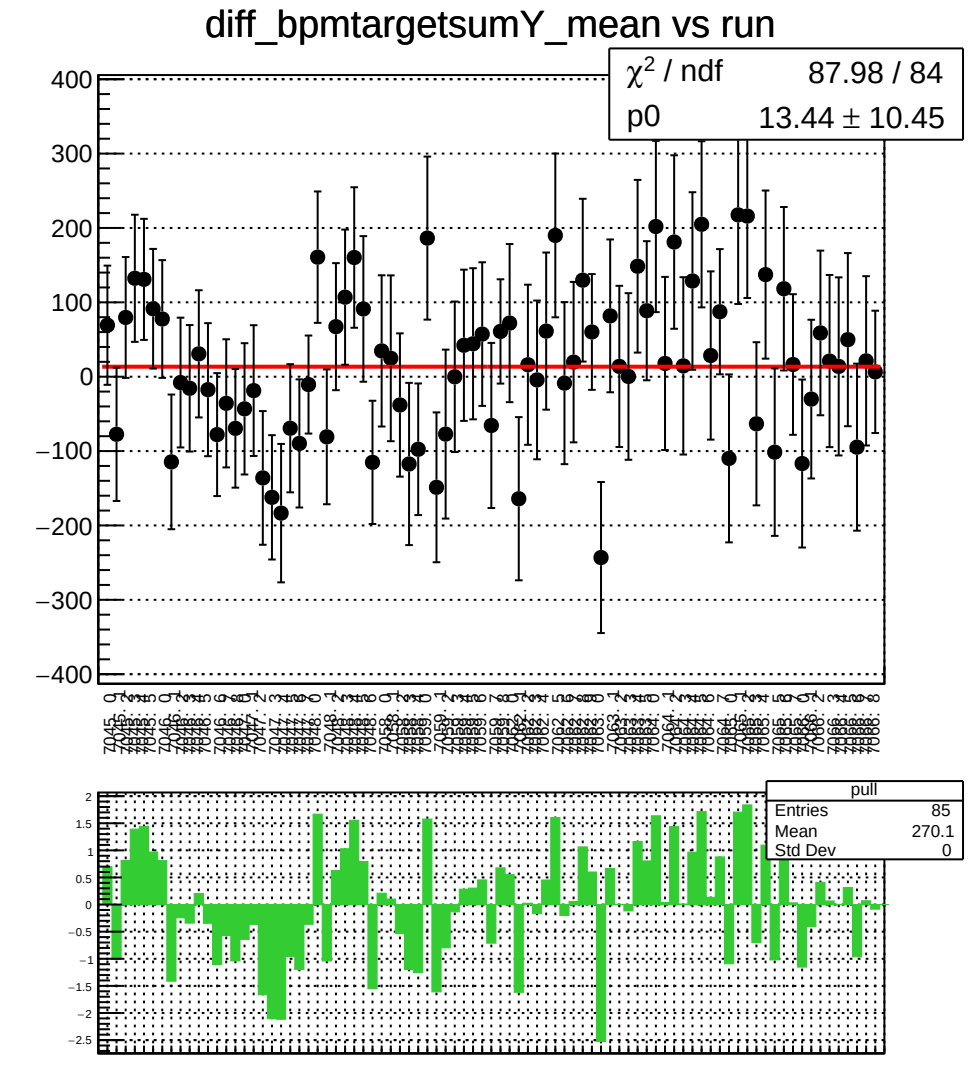

pull1D
Entries 85
Mean 0.01839
Std Dev 0.831

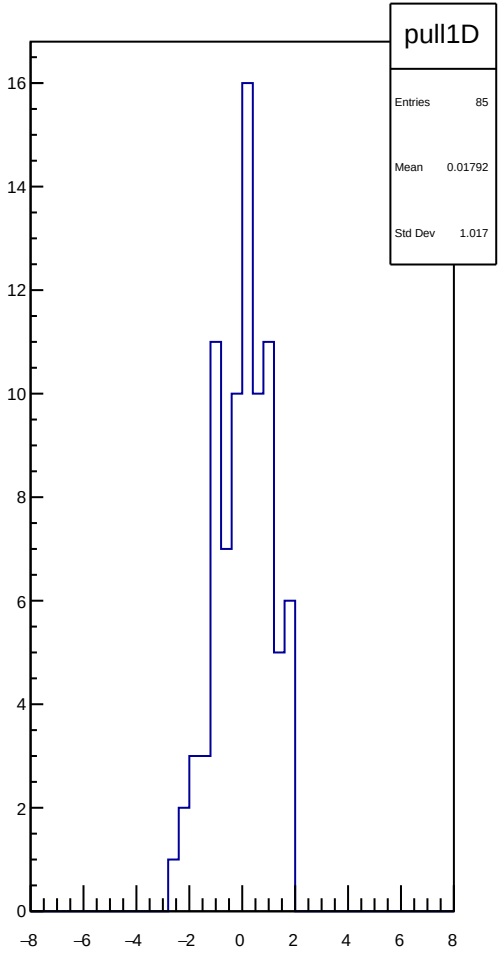

diff_bpmtargetsumX_rms vs run
χ² / ndf 3149 / 84
p0 1.097e+04 ± 8.552
12000
11500
11000
10500
10000

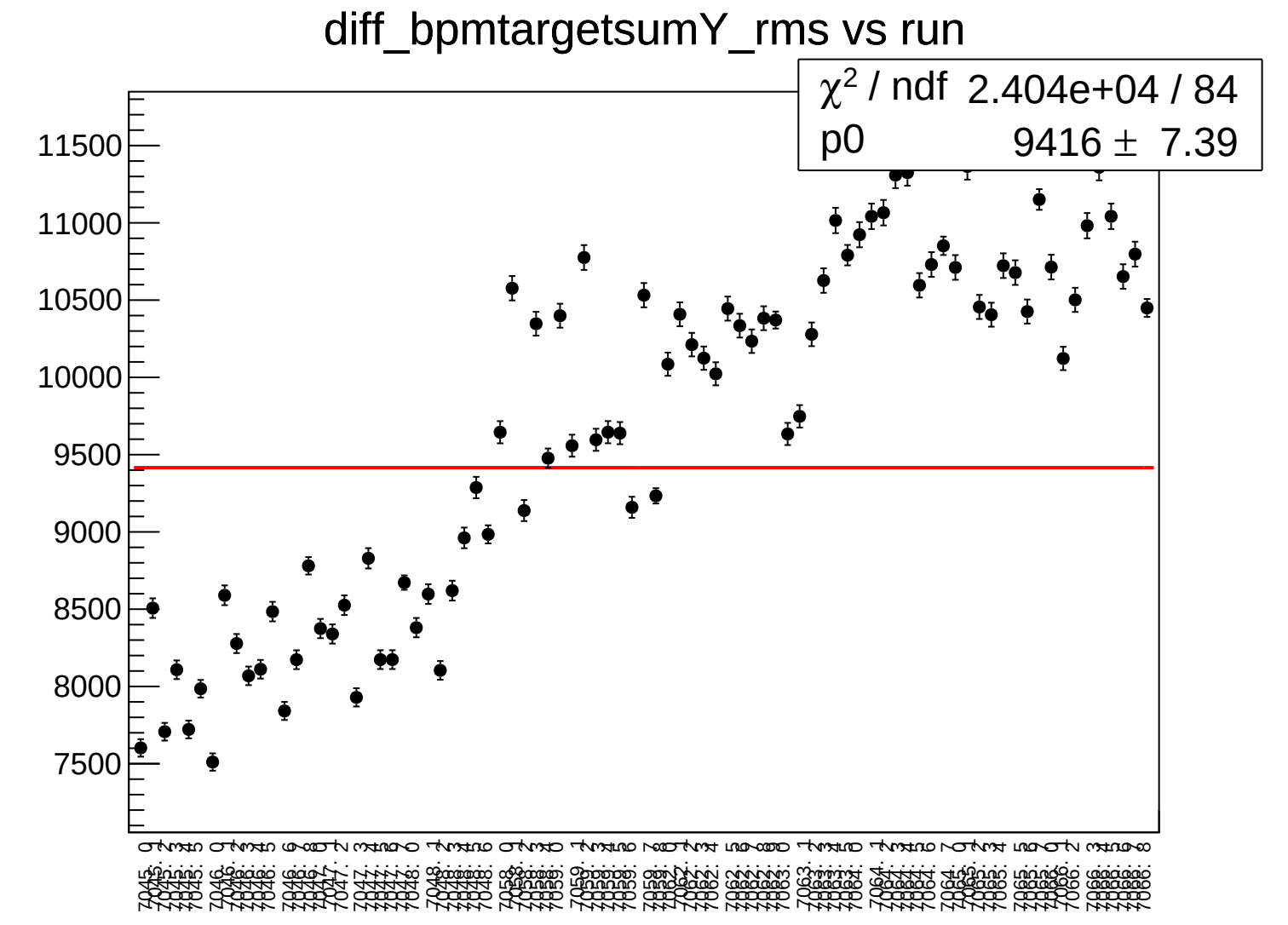

diff_bpmtargetdiffX_mean vs run
χ² / ndf 71.57 / 84
p0 −2.335 ± 0.9403
pull
Entries 85
Mean 778.2
Std Dev 0

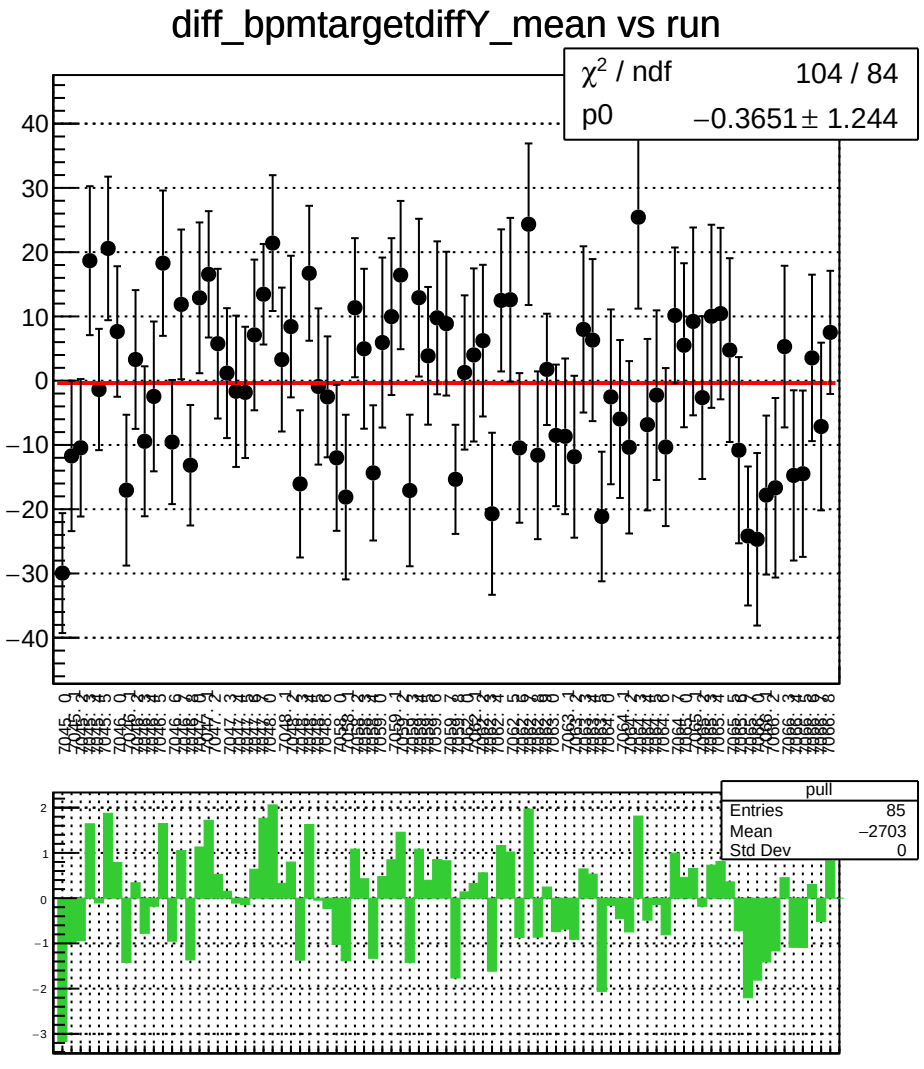

pull1D
Entries 85
Mean −0.00375
Std Dev 0.9176

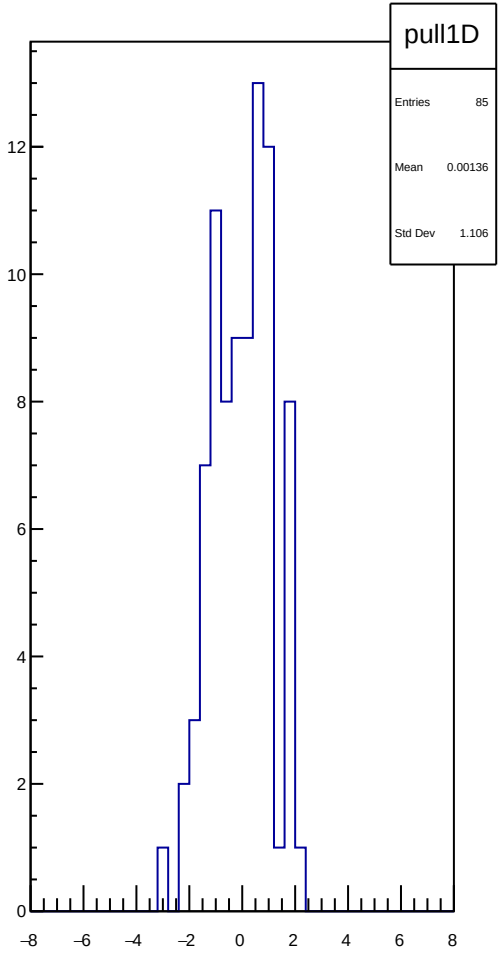

diff_bpmtargetdiffX_rms vs run
χ² / ndf 9220 / 84
p0 851 ± 0.6649
1150
1100
1050
1000
950
900
850
800
750

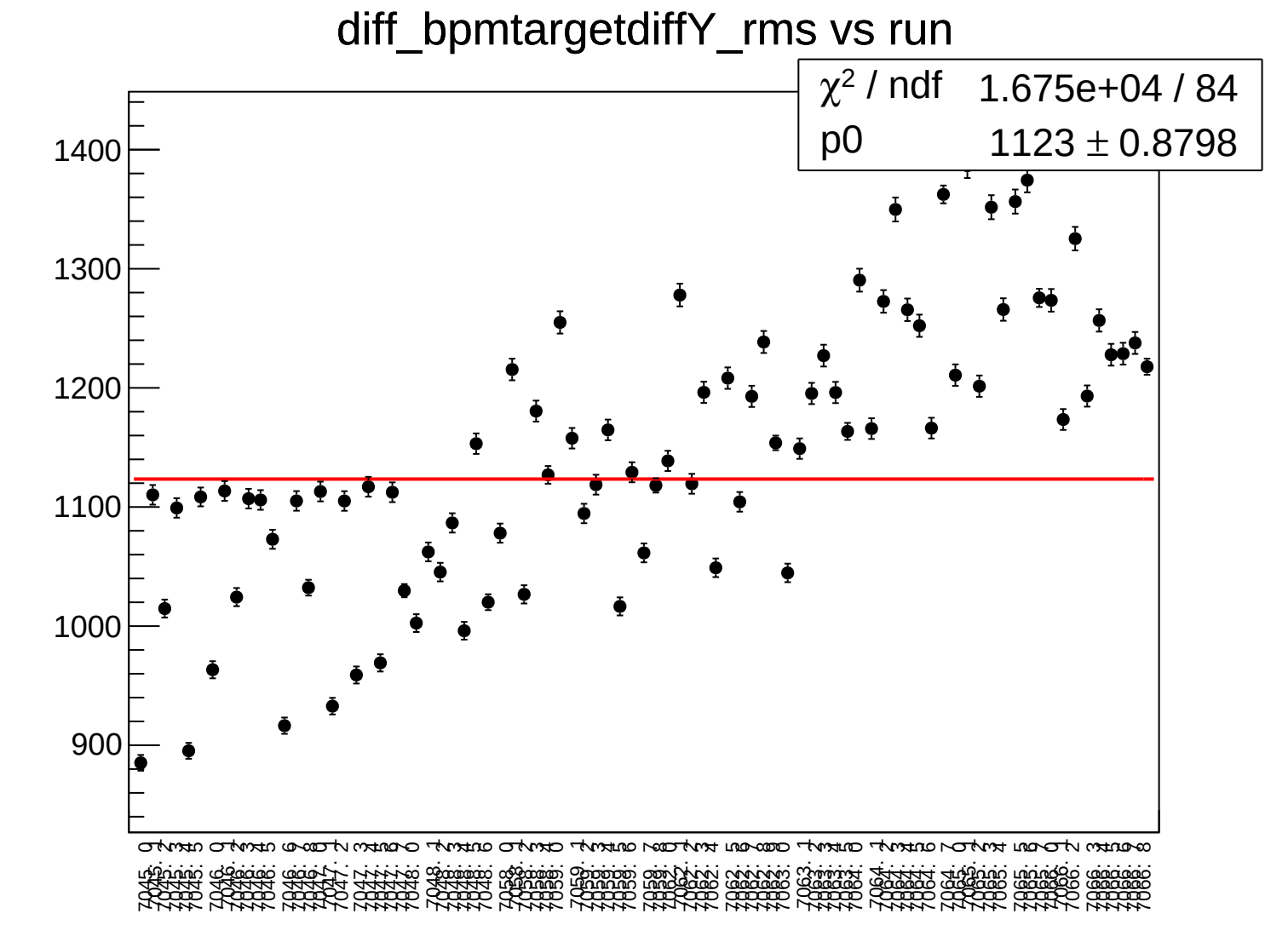

diff_bpmtargetsumY_mean vs run
χ² / ndf 87.98 / 84
p0 13.44 ± 10.45
pull
Entries 85
Mean 270.1
Std Dev 0

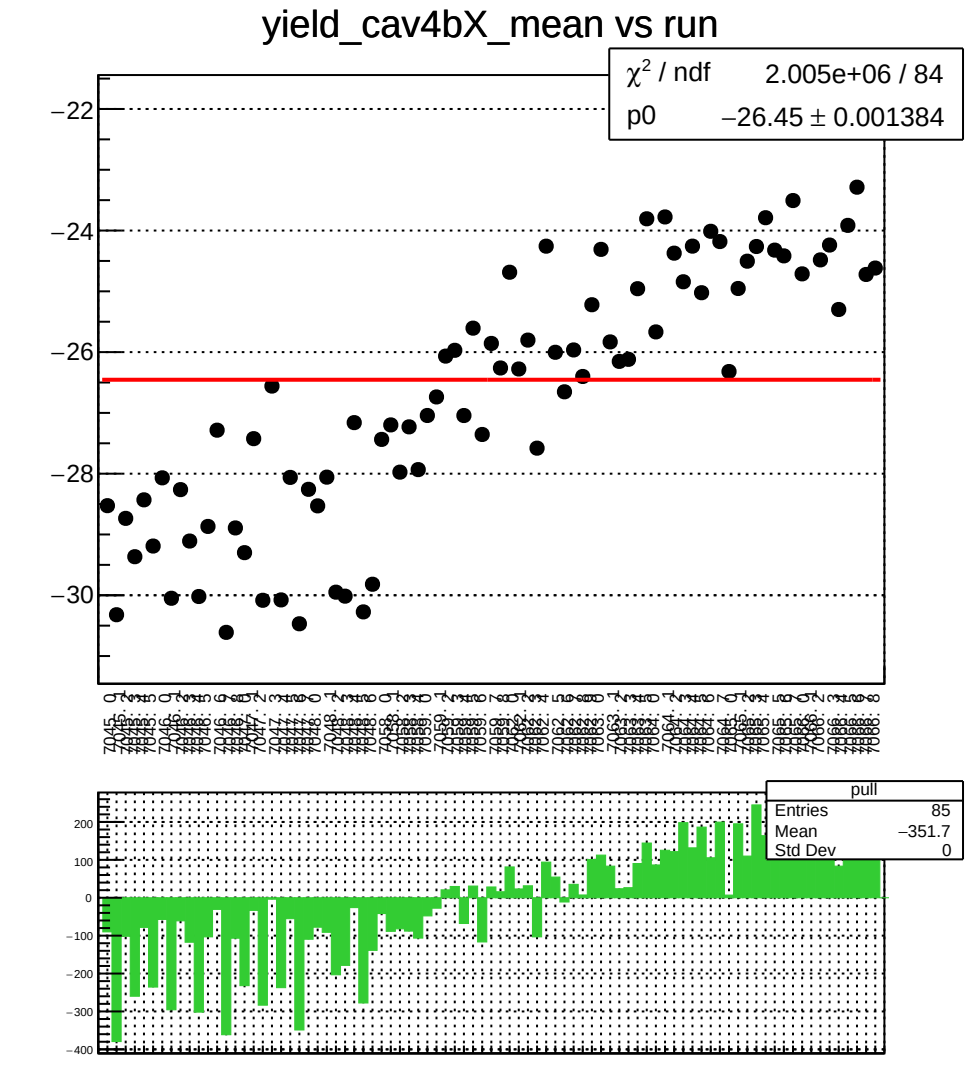

pull1D
Entries 85
Mean 0.01792
Std Dev 1.017

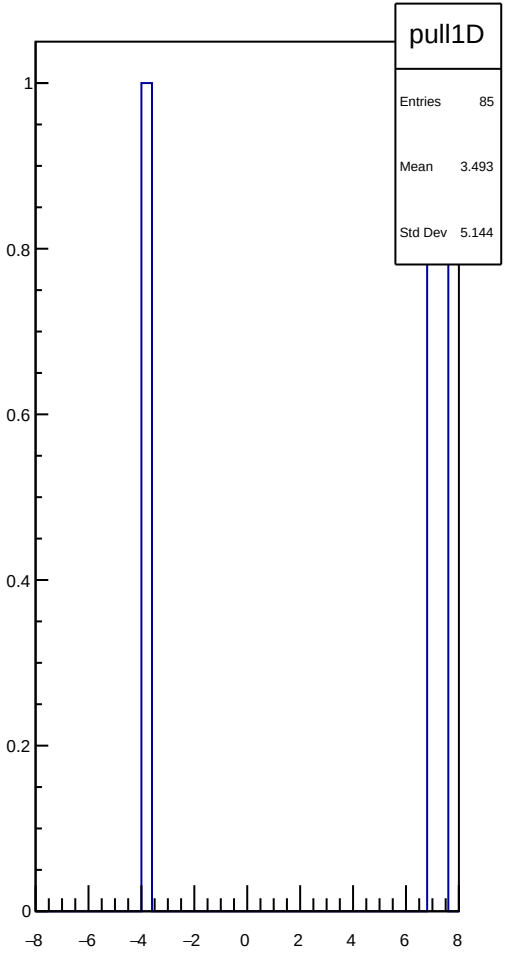

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.404e+04 / 84
p0 9416 ± 7.39
11500
11000
10500
10000
9500
9000
8500
8000
7500

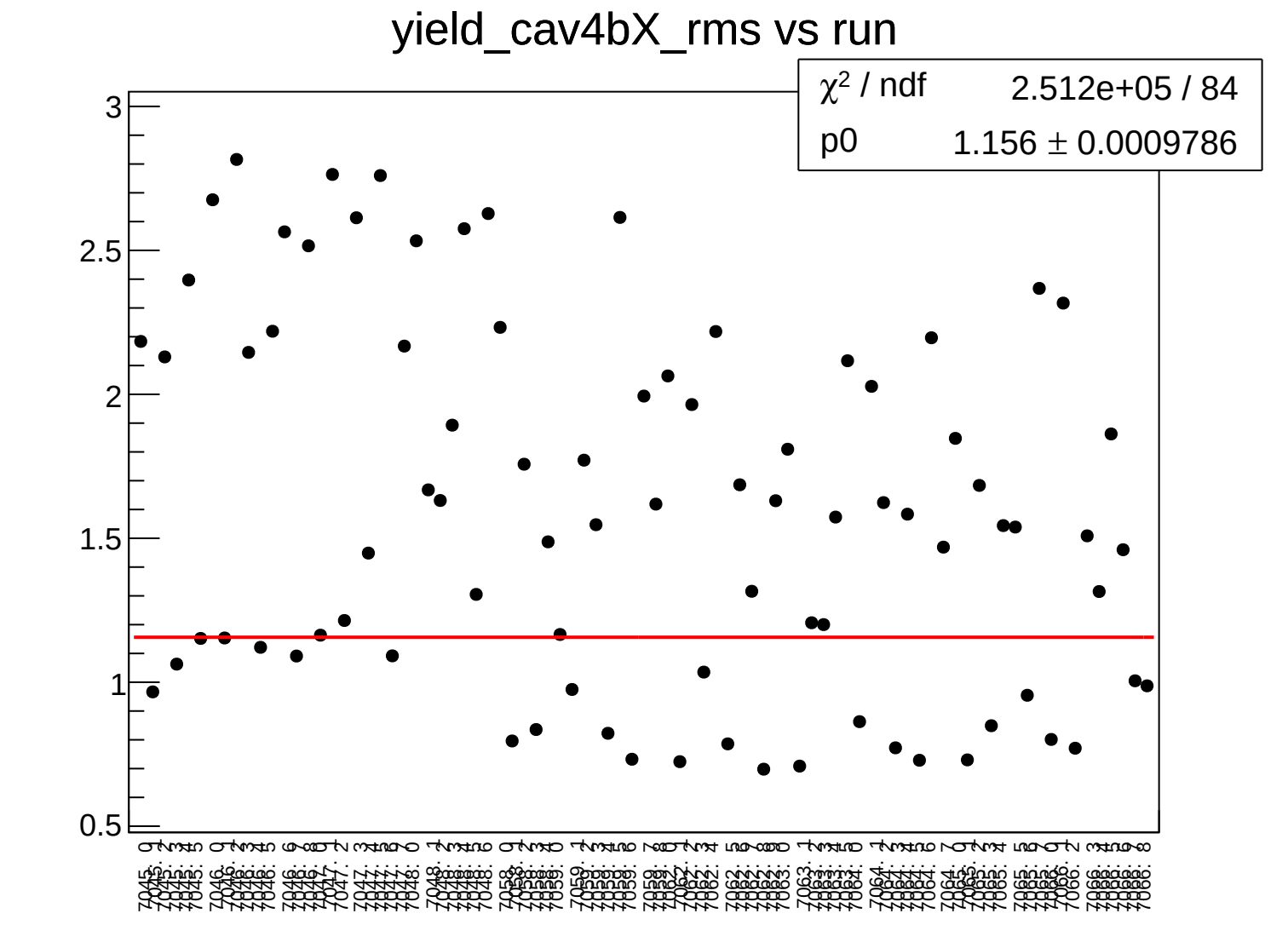

diff_bpmtargetdiffY_mean vs run
χ² / ndf 104 / 84
p0 −0.3651 ± 1.244
pull
Entries 85
Mean −2703
Std Dev 0

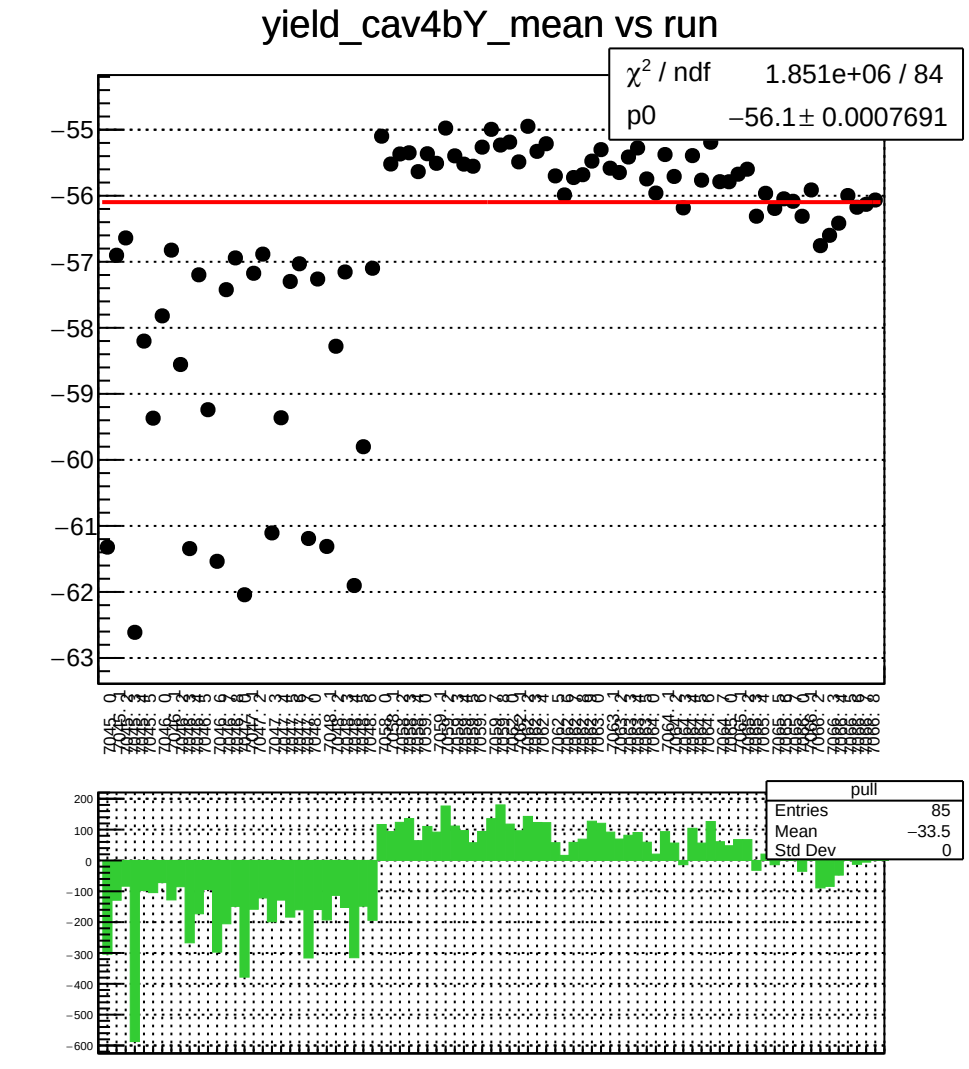

pull1D
Entries 85
Mean 0.00136
Std Dev 1.106

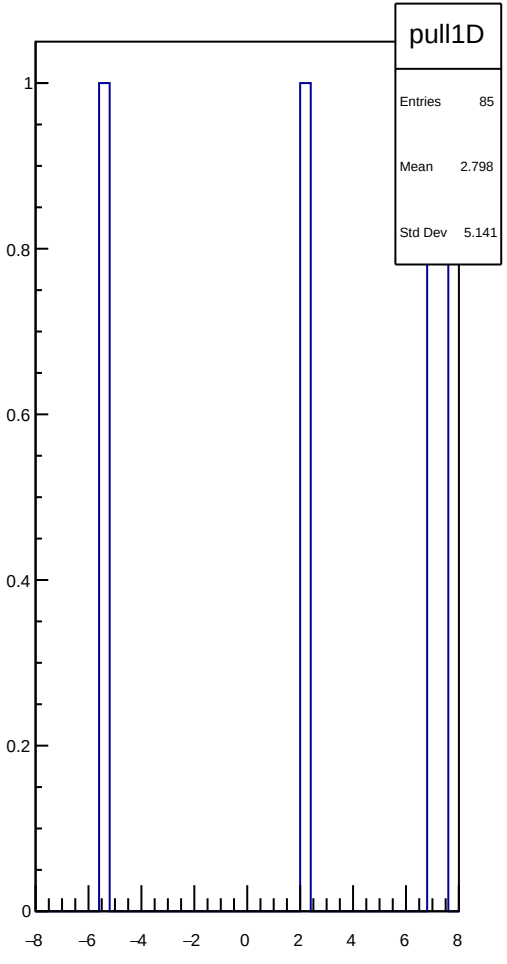

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.675e+04 / 84
p0 1123 ± 0.8798
1400
1300
1200
1100
1000
900

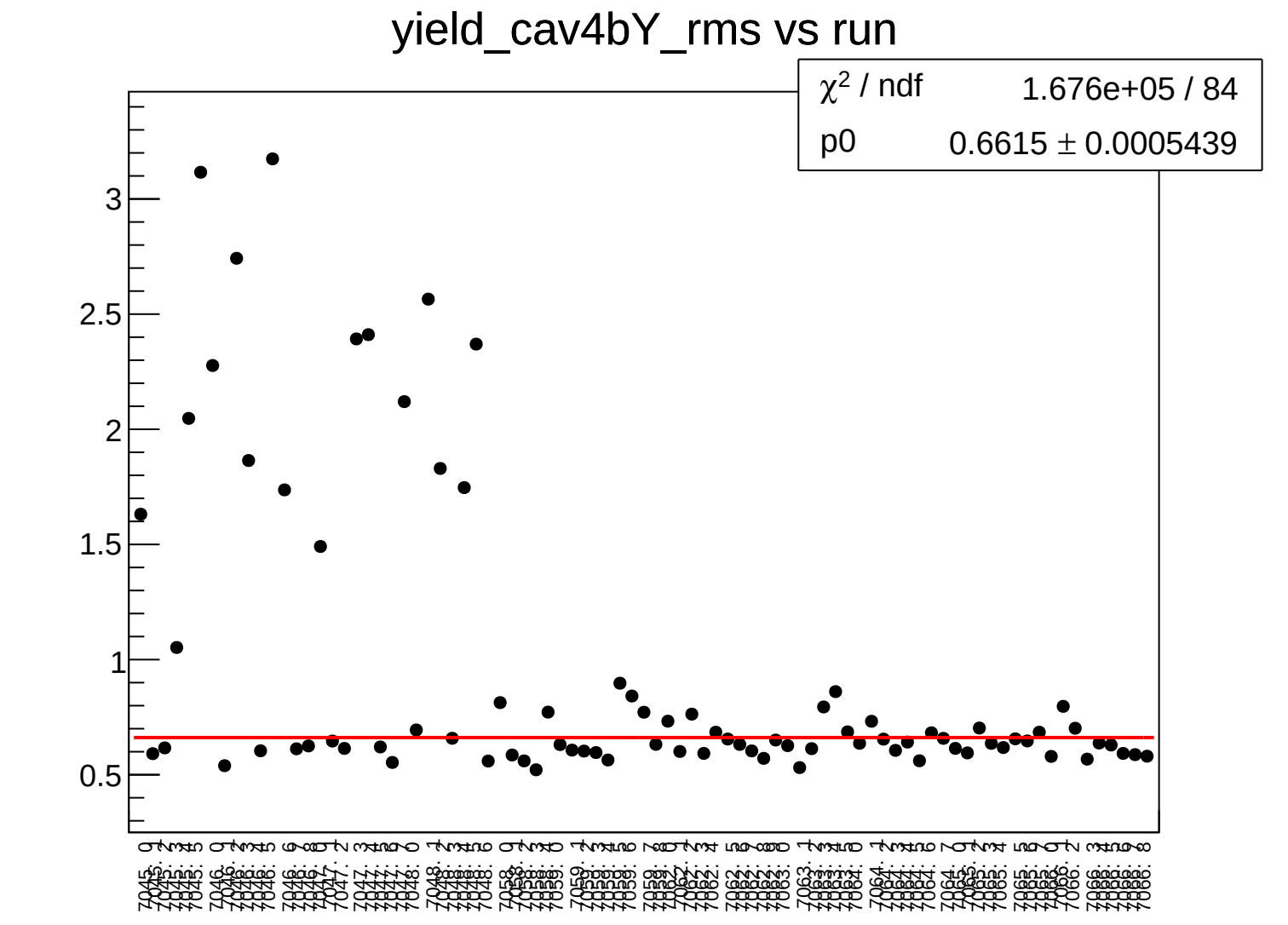

yield_cav4bX_mean vs run
χ² / ndf 2.005e+06 / 84
p0 −26.45 ± 0.001384
−22
−24
−26
−28
−30
pull
Entries 85
Mean −351.7
Std Dev 0
200
100
0
−100
−200
−300
−400

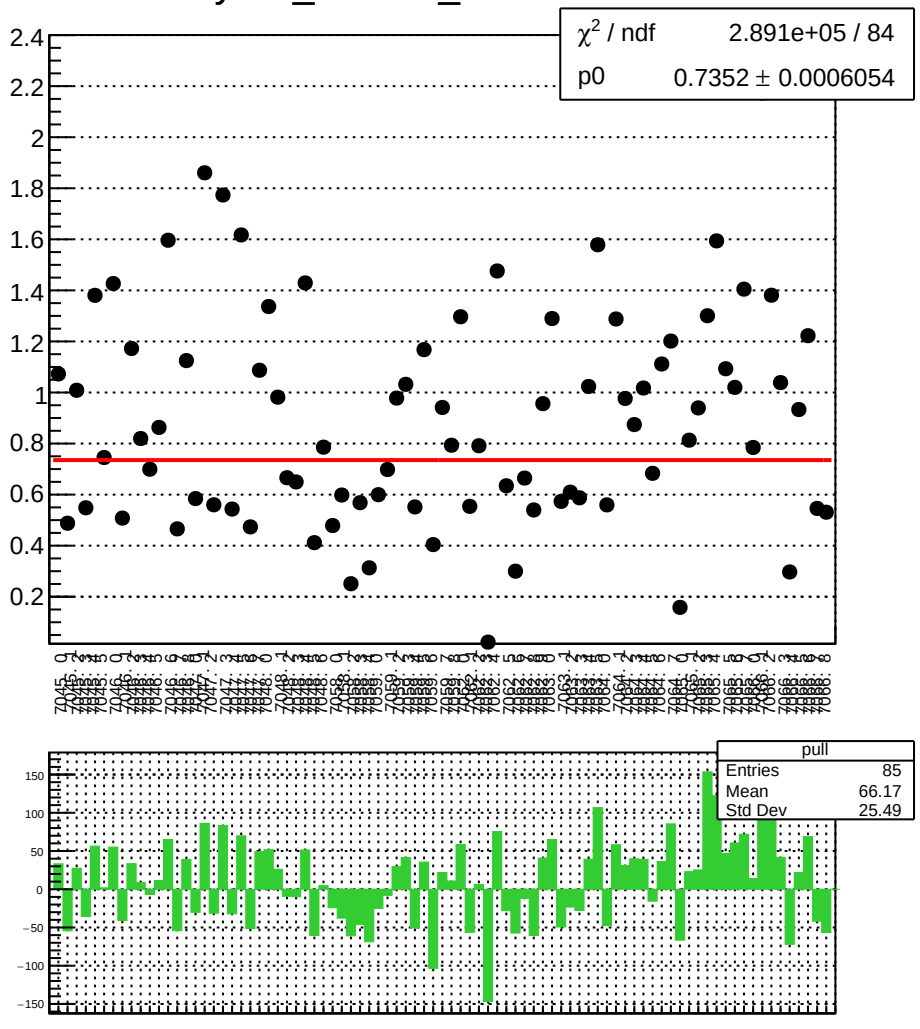

pull1D
Entries 85
Mean 3.493
Std Dev 5.144
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

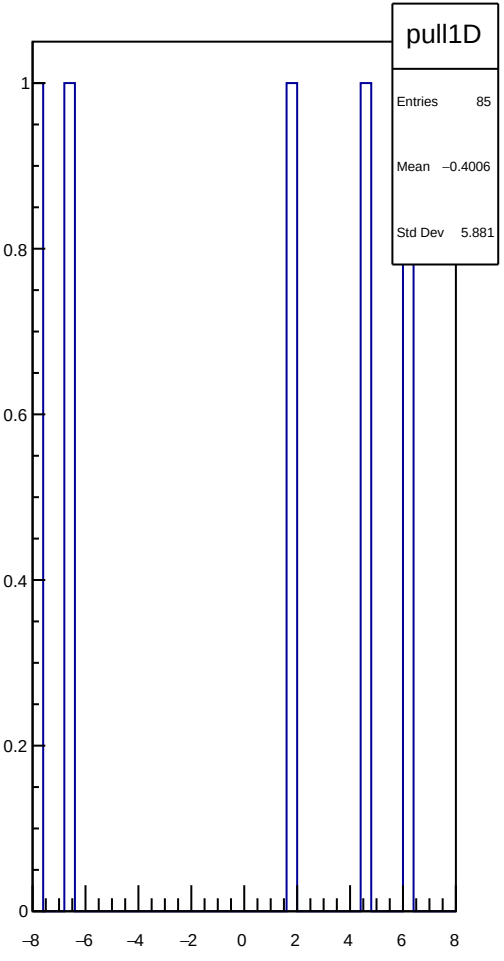

yield_cav4bX_rms vs run
χ² / ndf 2.512e+05 / 84
p0 1.156 ± 0.0009786
3
2.5
2
1.5
1
0.5

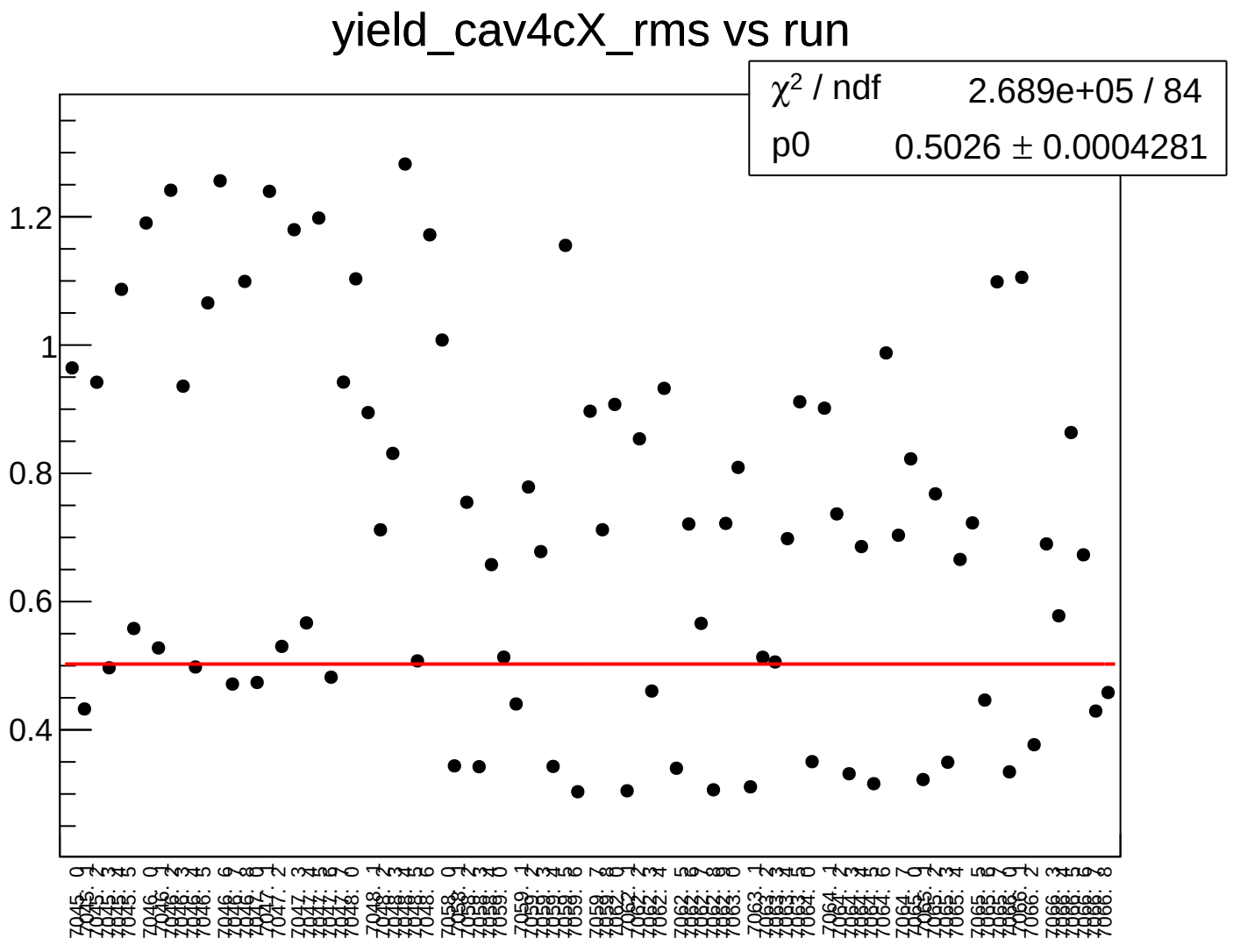

yield_cav4bY_mean vs run
χ² / ndf 1.851e+06 / 84
p0 −56.1 ± 0.0007691
pull
Entries 85
Mean −33.5
Std Dev 0

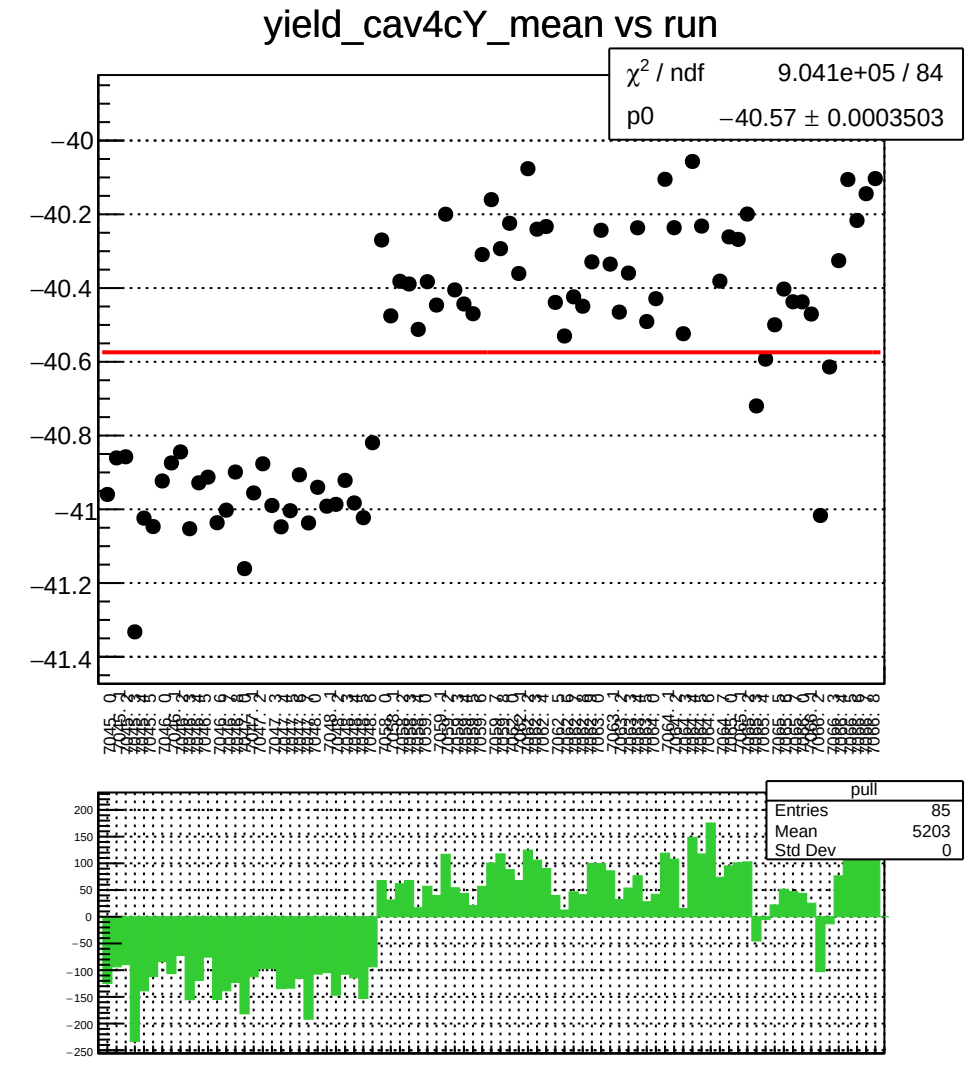

pull1D
Entries 85
Mean 2.798
Std Dev 5.141

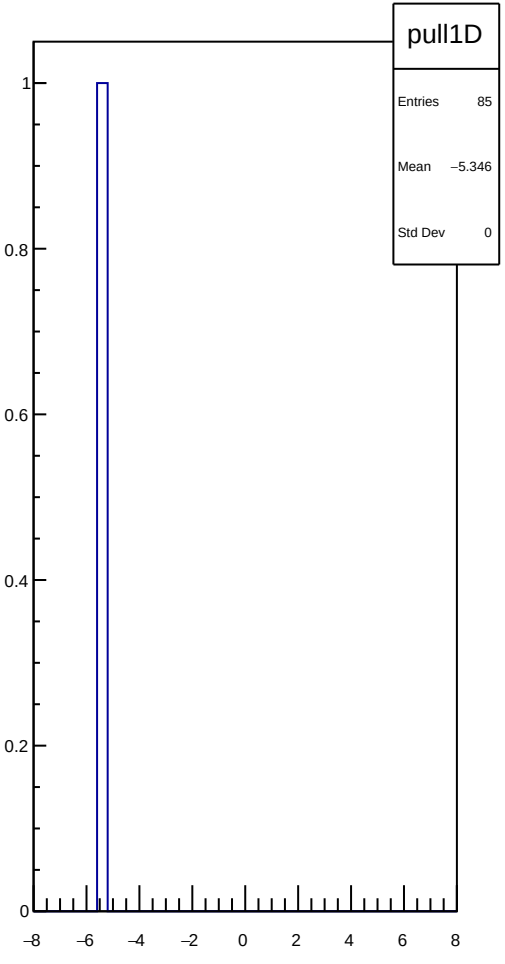

yield_cav4bY_rms vs run
χ² / ndf 1.676e+05 / 84
p0 0.6615 ± 0.0005439
3
2.5
2
1.5
1
0.5

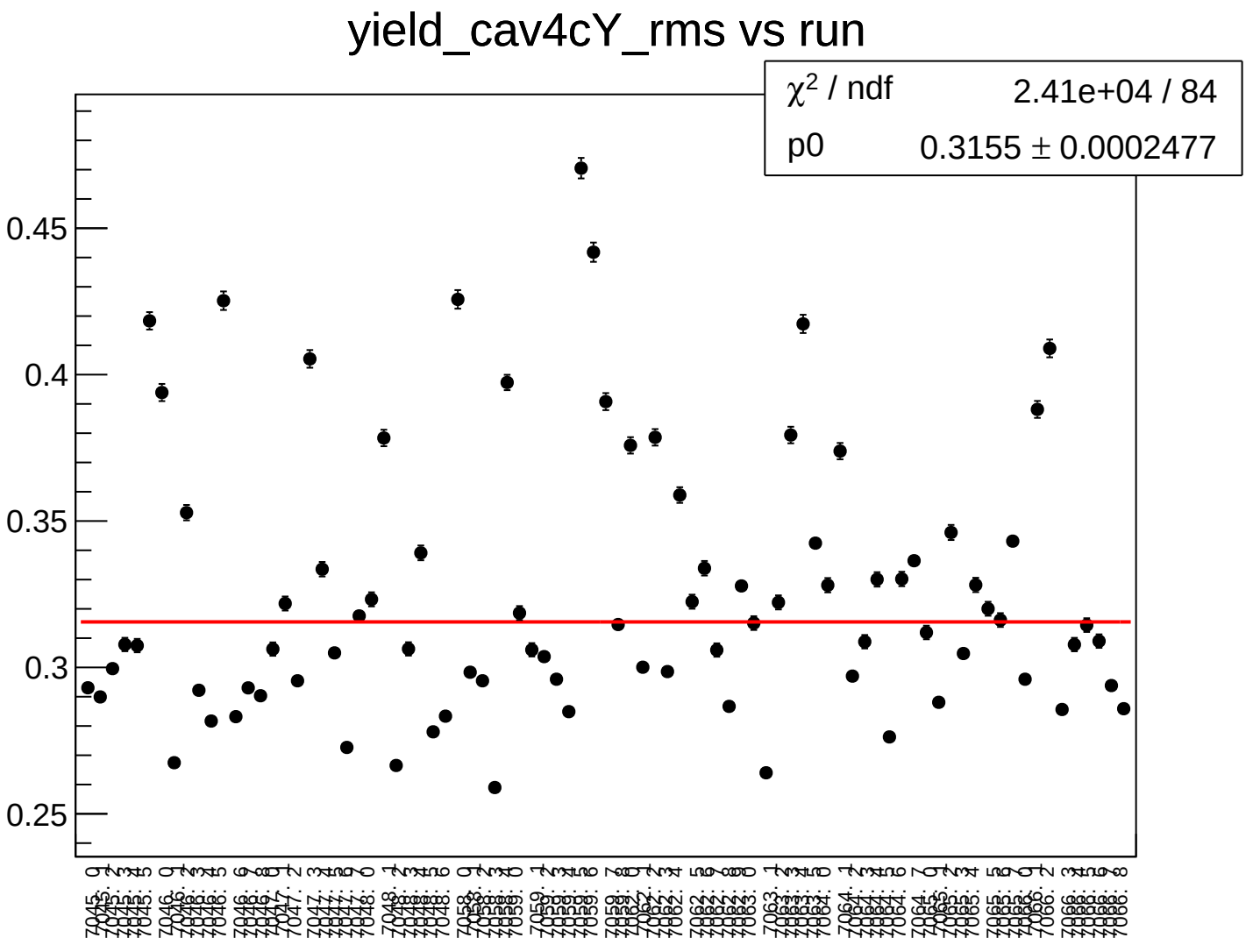

yield_cav4cX_mean vs run
χ² / ndf 2.891e+05 / 84
p0 0.7352 ± 0.0006054
pull
Entries 85
Mean 66.17
Std Dev 25.49

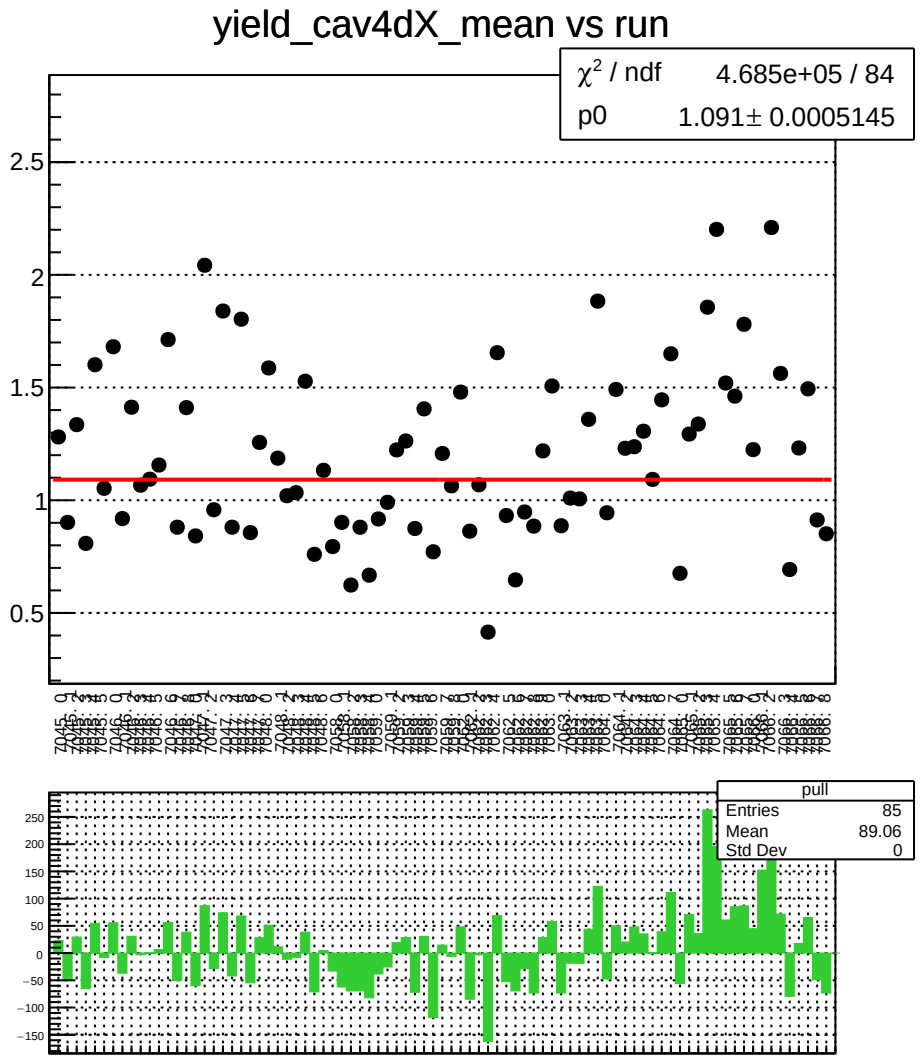

pull1D
Entries 85
Mean −0.4006
Std Dev 5.881

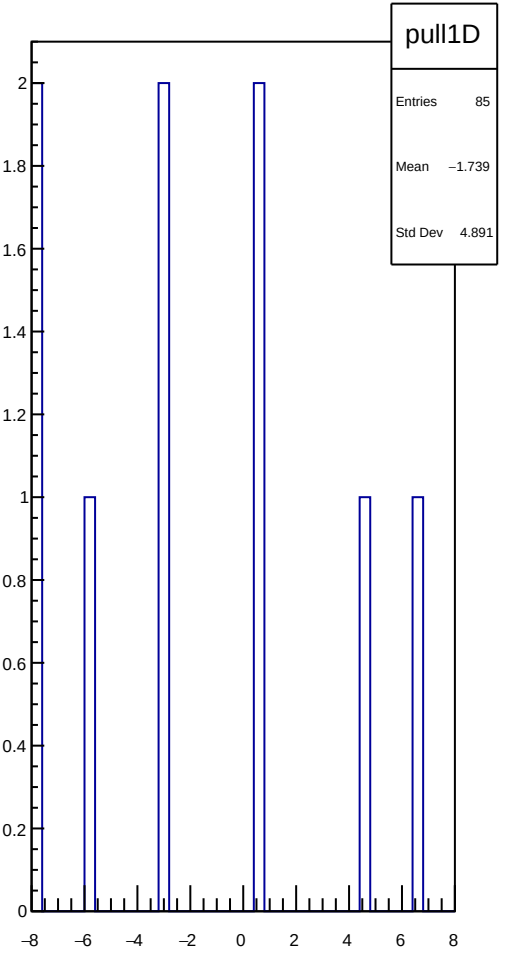

yield_cav4cX_rms vs run
χ² / ndf 2.689e+05 / 84
p0 0.5026 ± 0.0004281
1.2
1
0.8
0.6
0.4

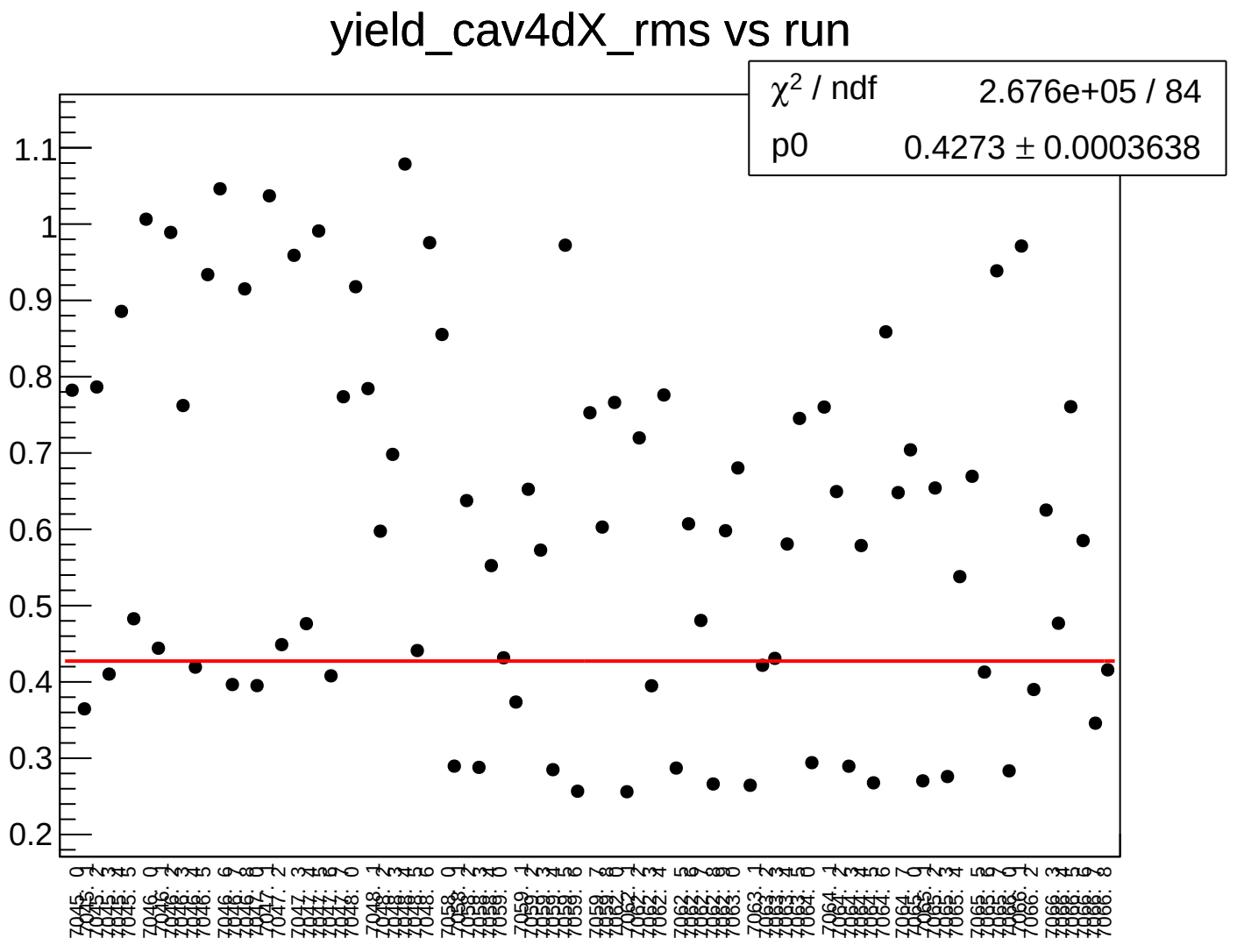

yield_cav4cY_mean vs run
χ² / ndf 9.041e+05 / 84
p0 −40.57 ± 0.0003503
pull
Entries 85
Mean 5203
Std Dev 0

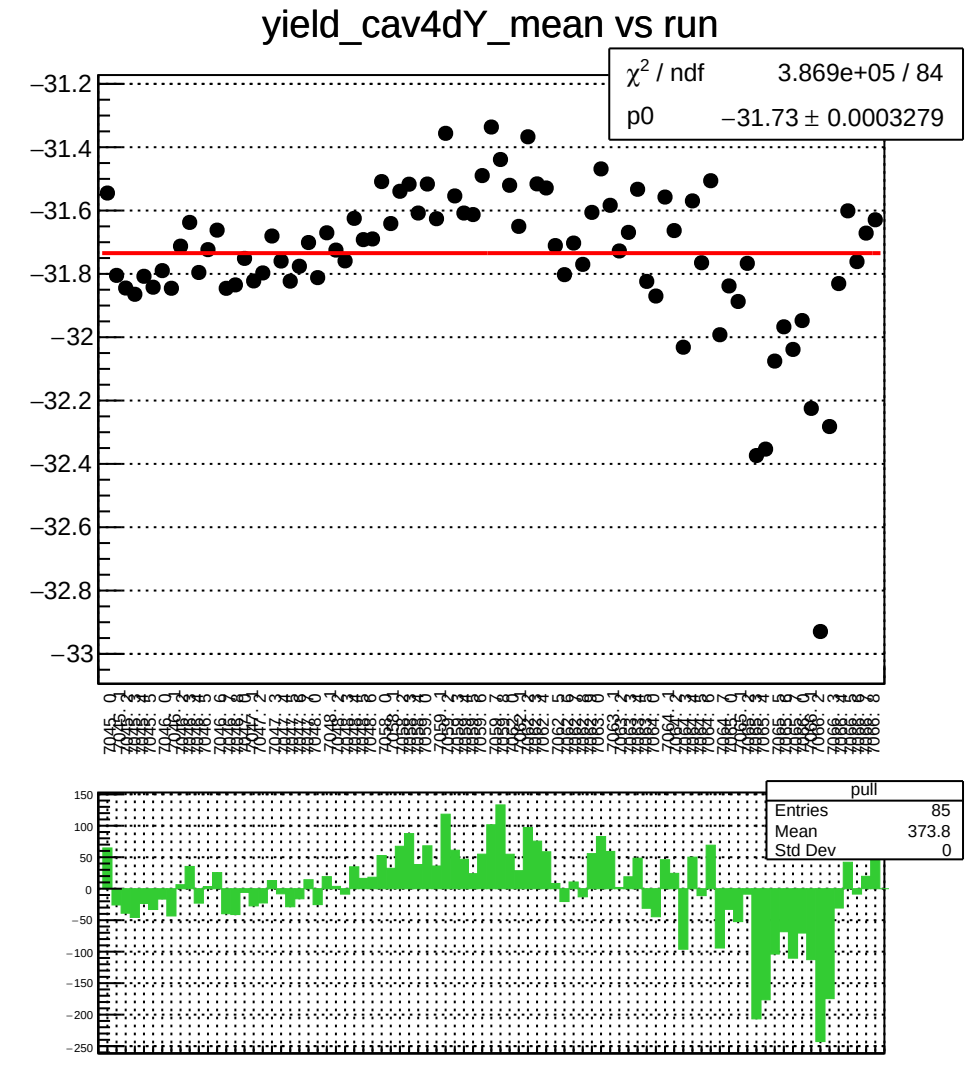

pull1D
Entries 85
Mean −5.346
Std Dev 0

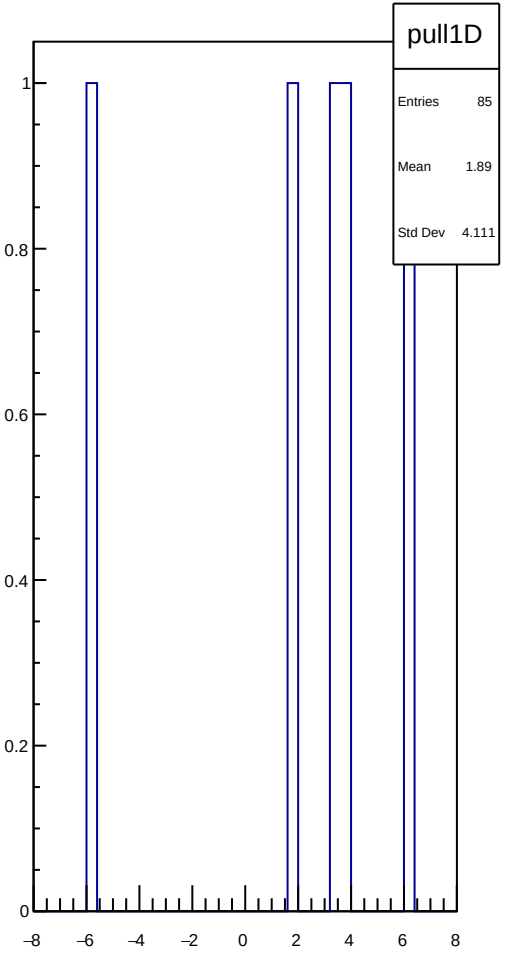

yield_cav4cY_rms vs run
χ² / ndf 2.41e+04 / 84
p0 0.3155 ± 0.0002477
0.45
0.4
0.35
0.3
0.25

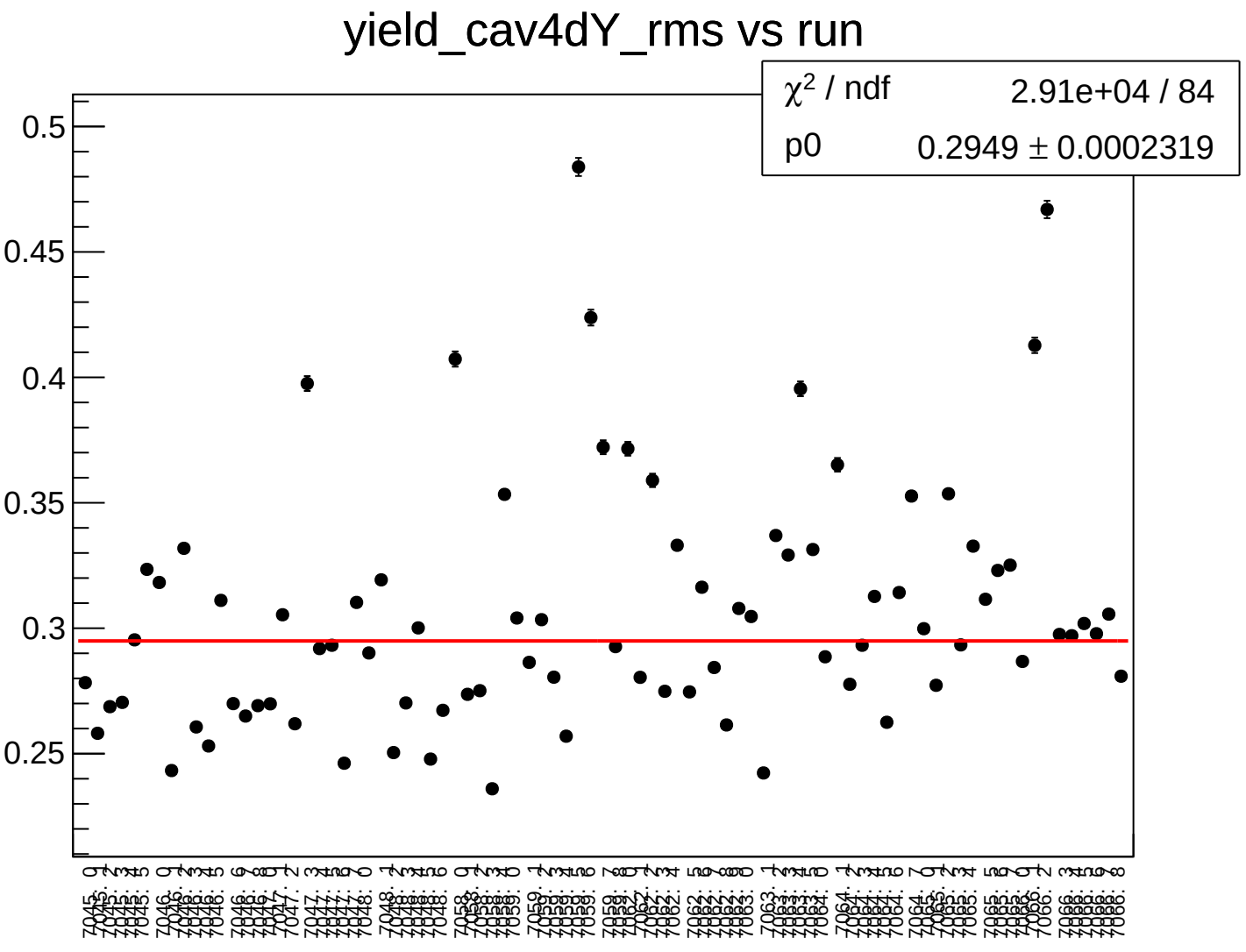

yield_cav4dX_mean vs run
χ² / ndf 4.685e+05 / 84
p0 1.091± 0.0005145
pull
Entries 85
Mean 89.06
Std Dev 0

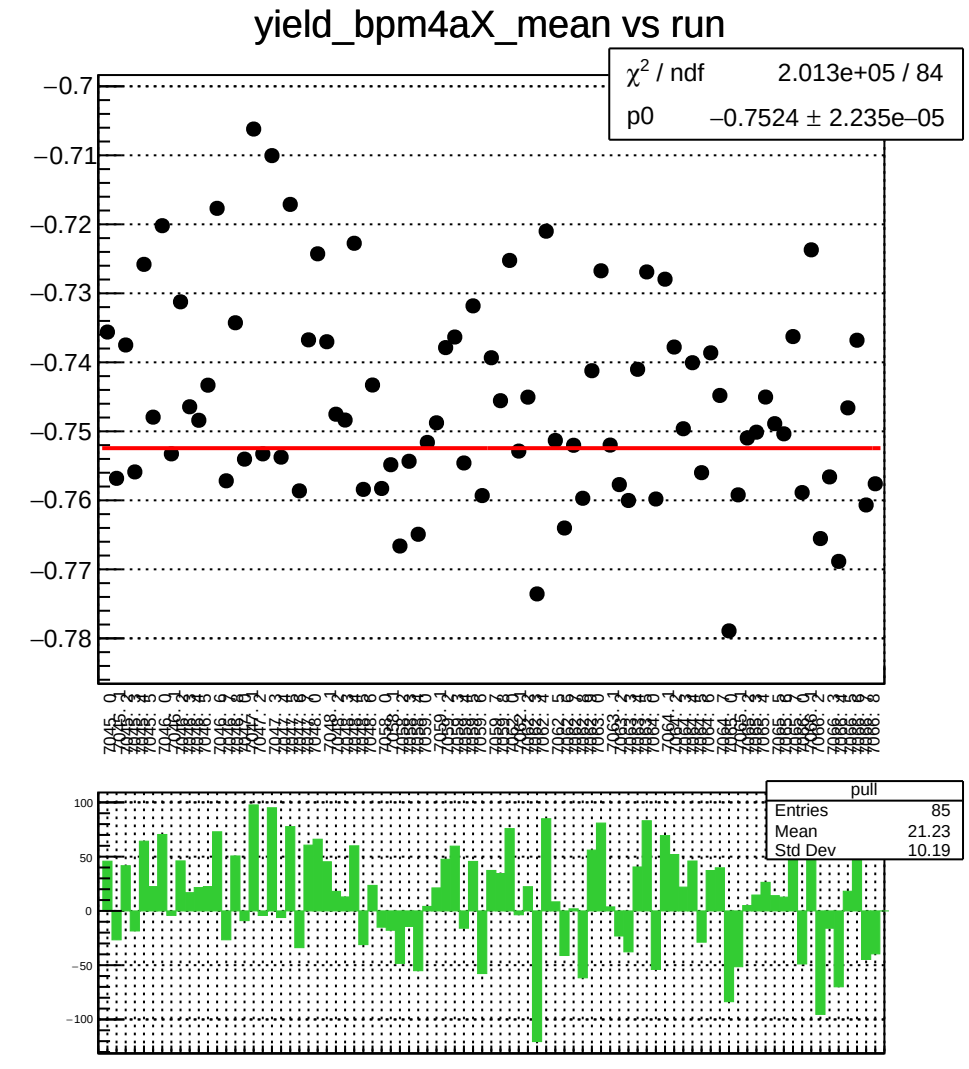

pull1D
Entries 85
Mean −1.739
Std Dev 4.891

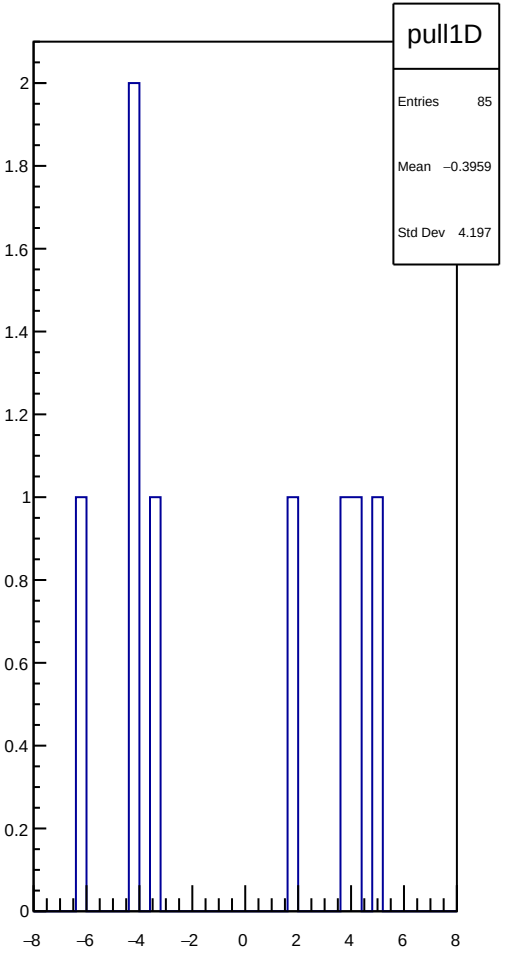

yield_cav4dX_rms vs run
χ² / ndf 2.676e+05 / 84
p0 0.4273 ± 0.0003638
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

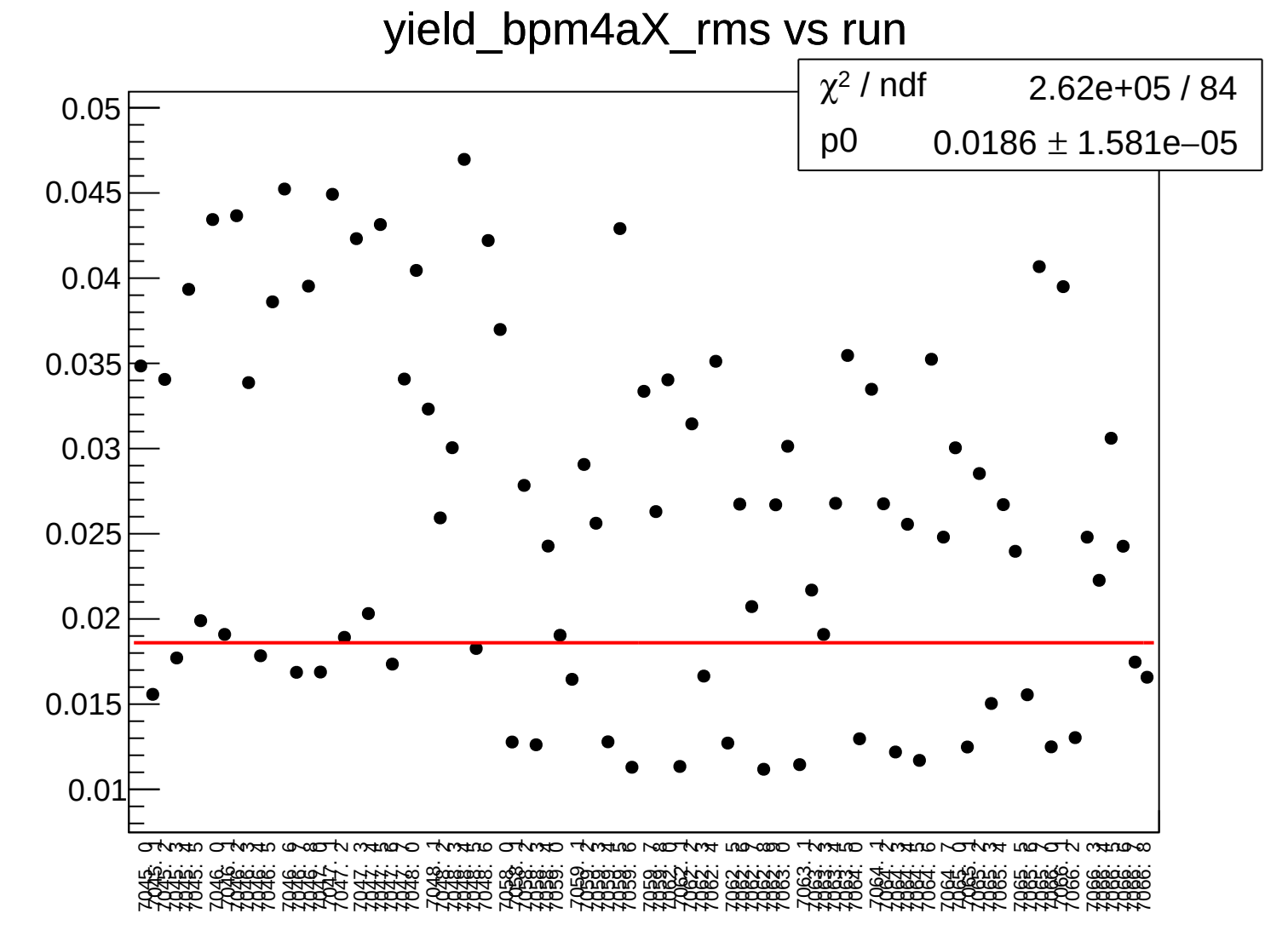

yield_cav4dY_mean vs run
χ² / ndf 3.869e+05 / 84
p0 −31.73 ± 0.0003279
−31.2
−31.4
−31.6
−31.8
−32
−32.2
−32.4
−32.6
−32.8
−33
pull
Entries 85
Mean 373.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

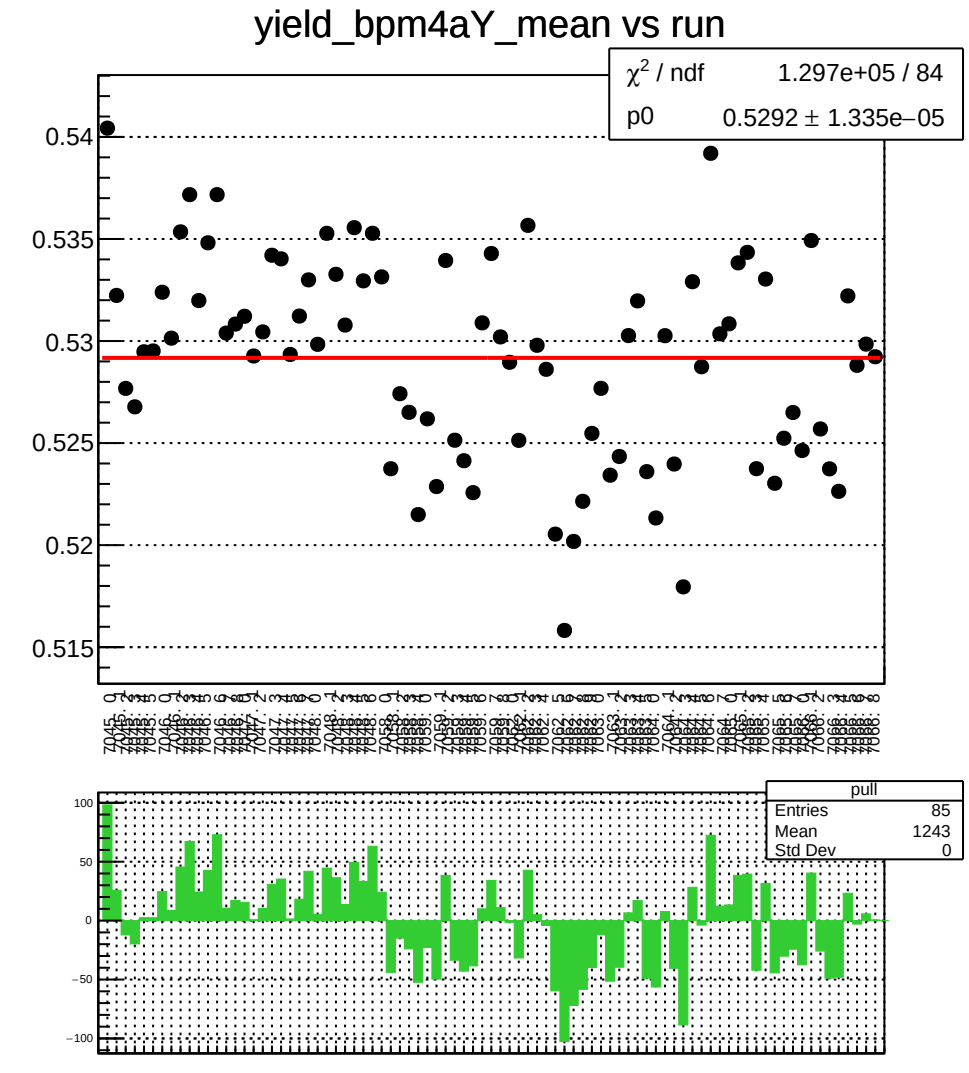

pull1D
Entries 85
Mean 1.89
Std Dev 4.111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

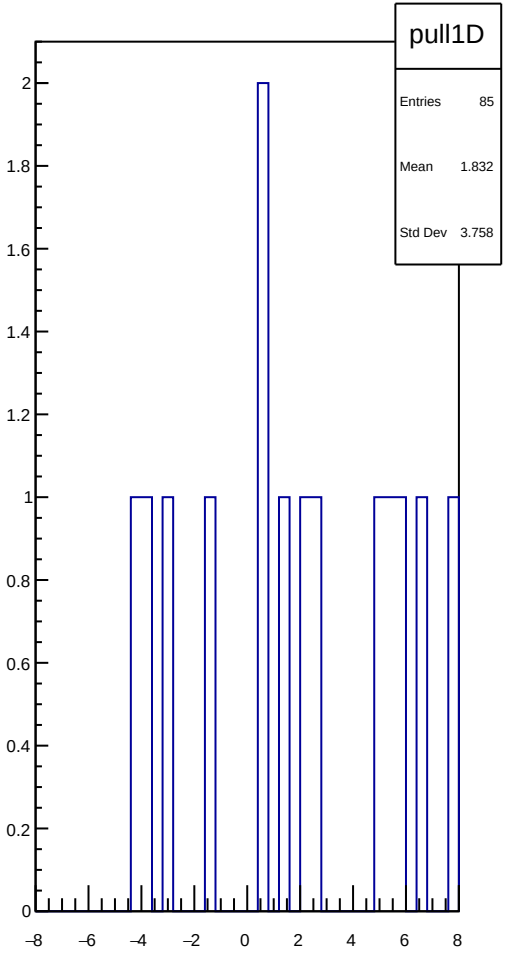

yield_cav4dY_rms vs run
χ² / ndf 2.91e+04 / 84
p0 0.2949 ± 0.0002319
0.5
0.45
0.4
0.35
0.3
0.25

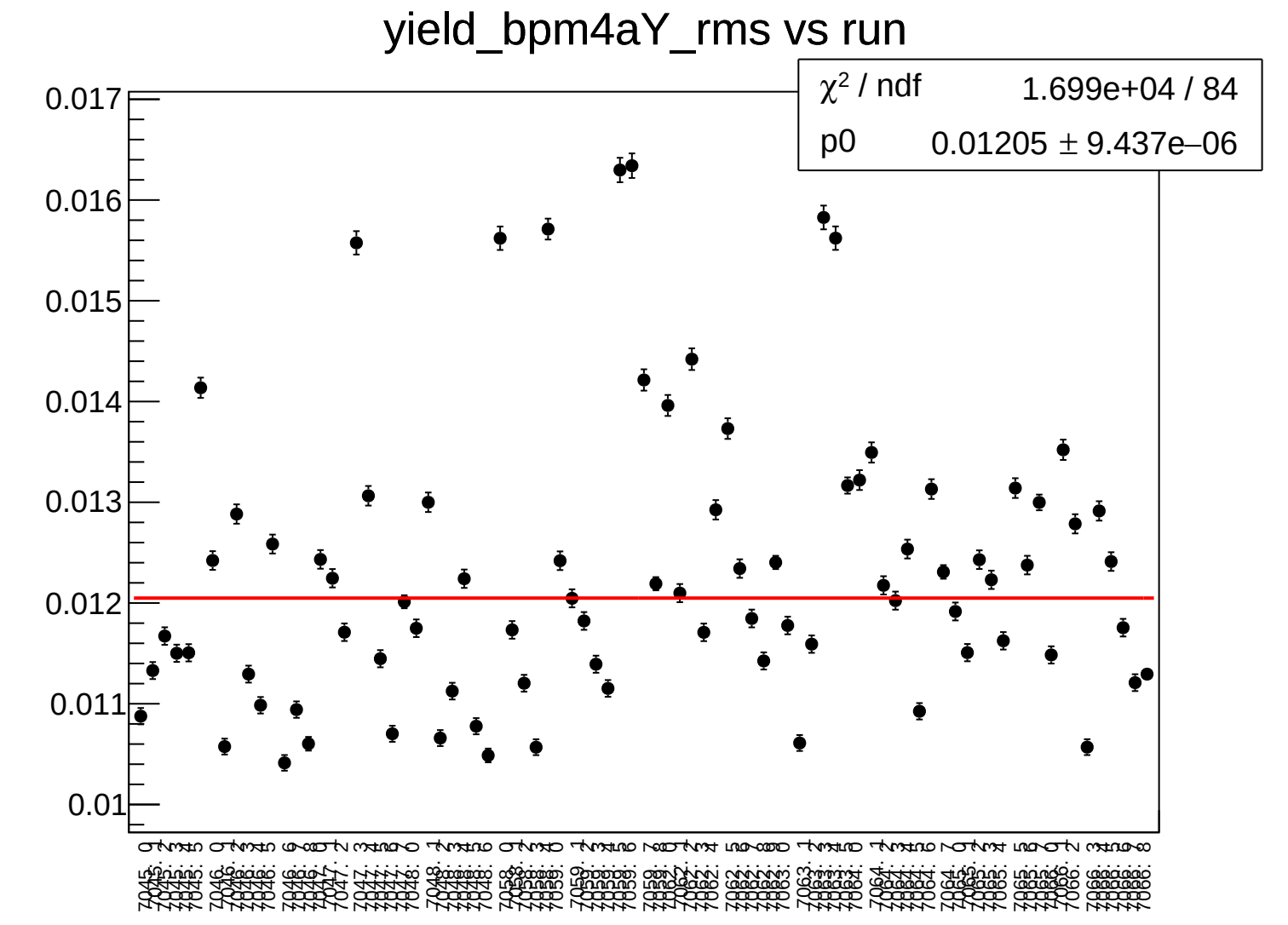

yield_bpm4aX_mean vs run
χ² / ndf 2.013e+05 / 84
p0 −0.7524 ± 2.235e−05
pull
Entries 85
Mean 21.23
Std Dev 10.19

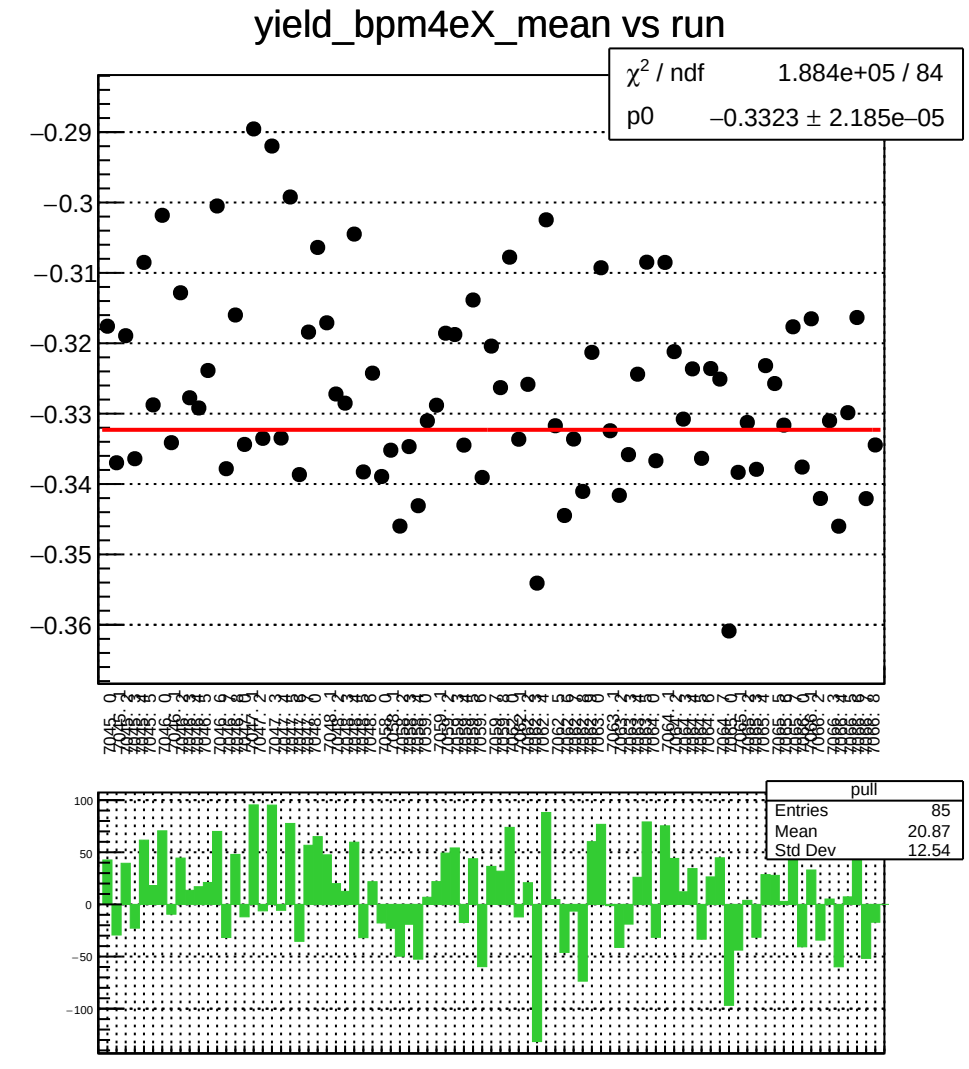

pull1D
Entries 85
Mean −0.3959
Std Dev 4.197

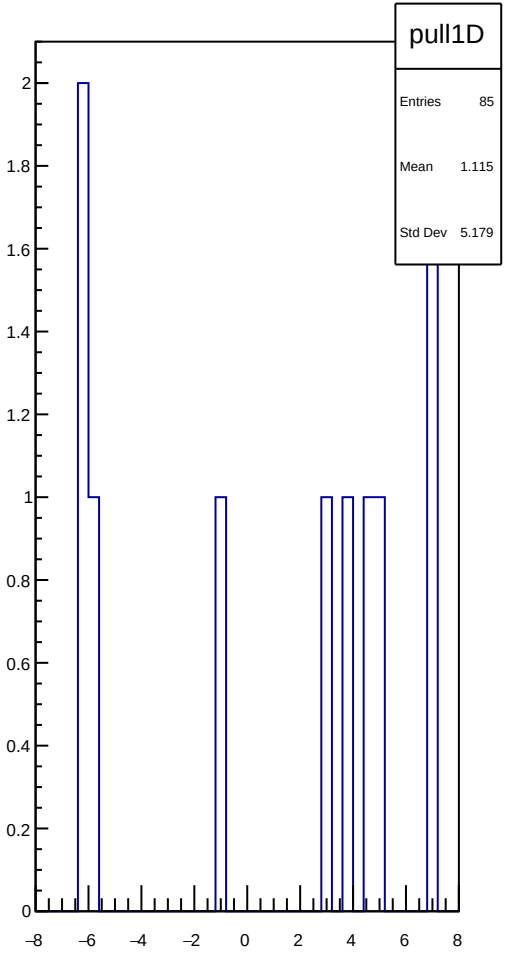

yield_bpm4aX_rms vs run
χ² / ndf 2.62e+05 / 84
p0 0.0186 ± 1.581e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

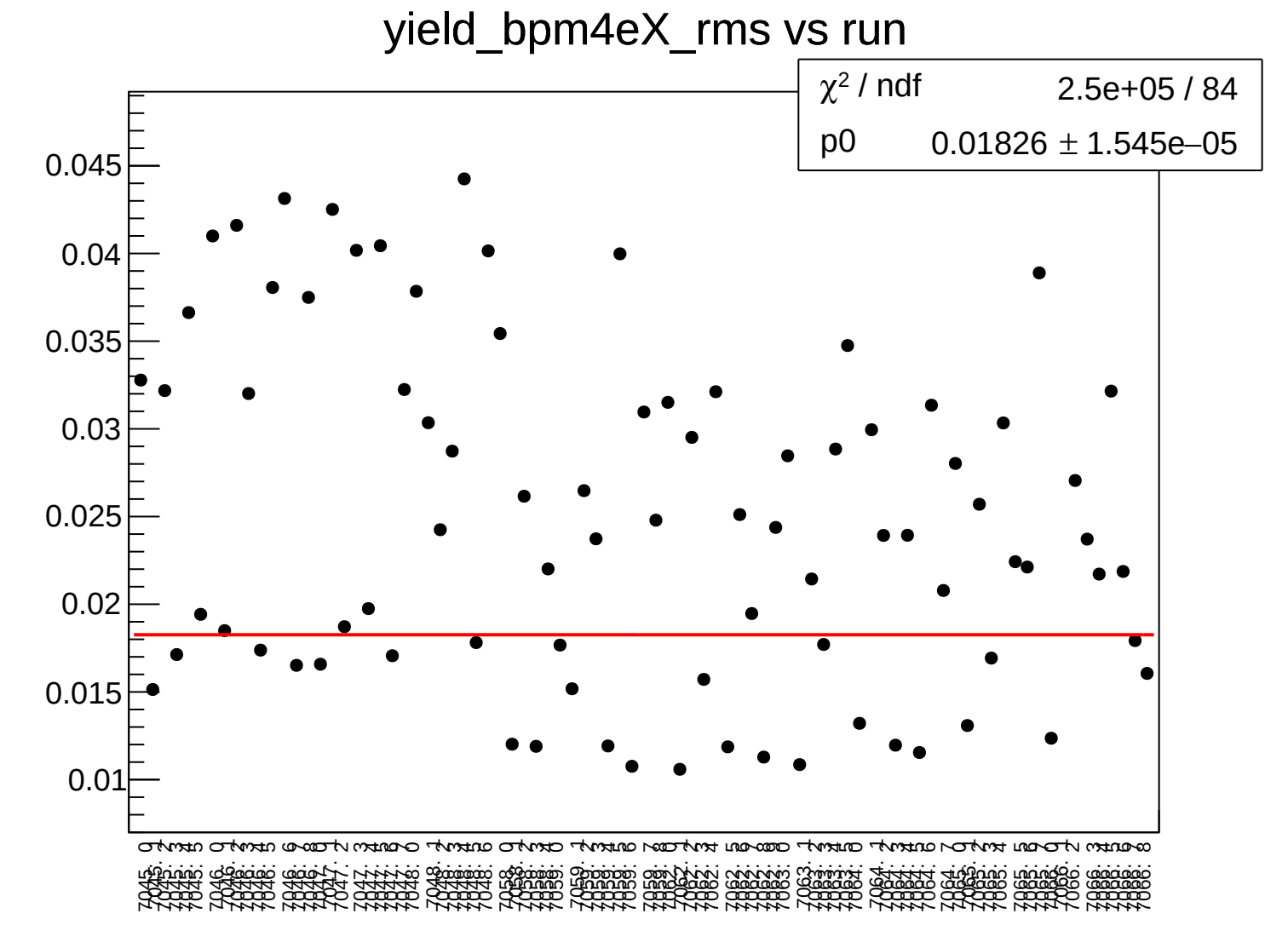

yield_bpm4aY_mean vs run
χ² / ndf 1.297e+05 / 84
p0 0.5292 ± 1.335e−05
0.54
0.535
0.53
0.525
0.52
0.515
pull
Entries 85
Mean 1243
Std Dev 0
100
50
0
−50
−100

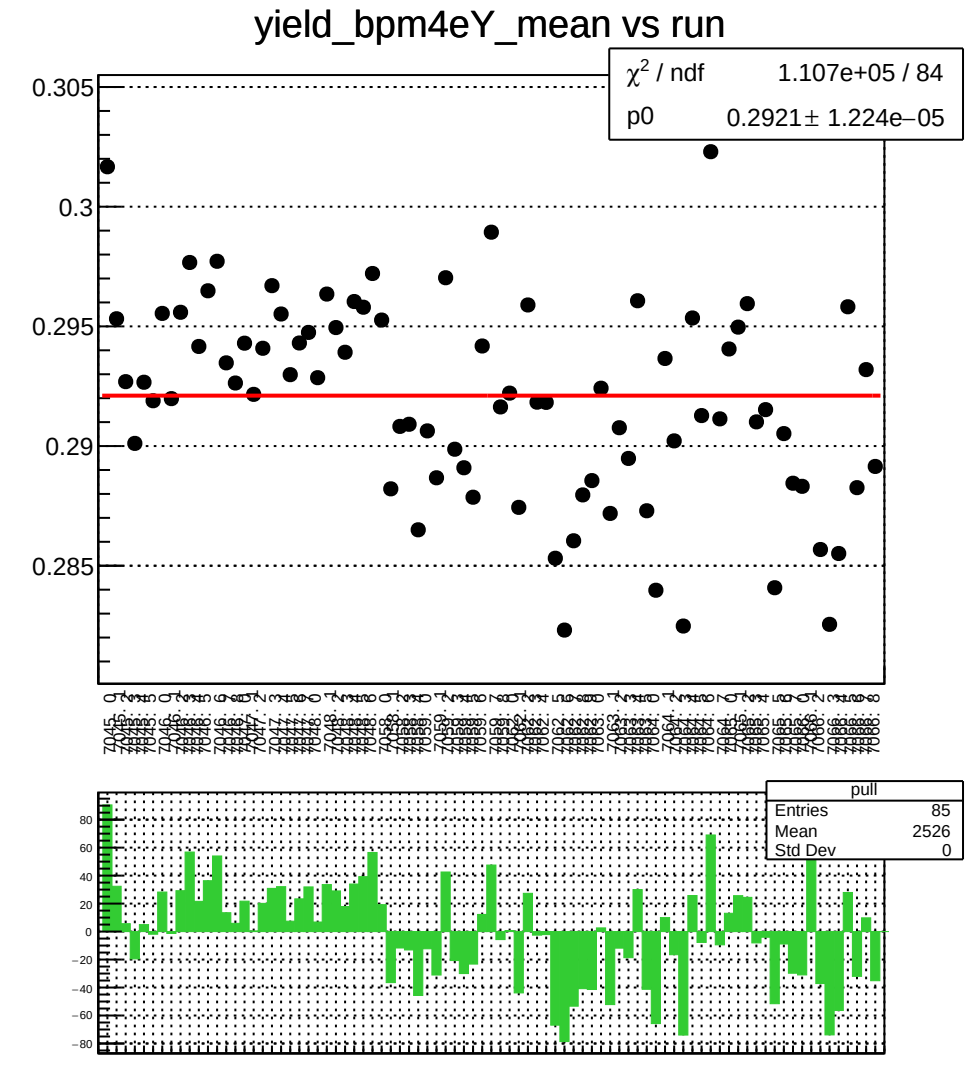

pull1D
Entries 85
Mean 1.832
Std Dev 3.758
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

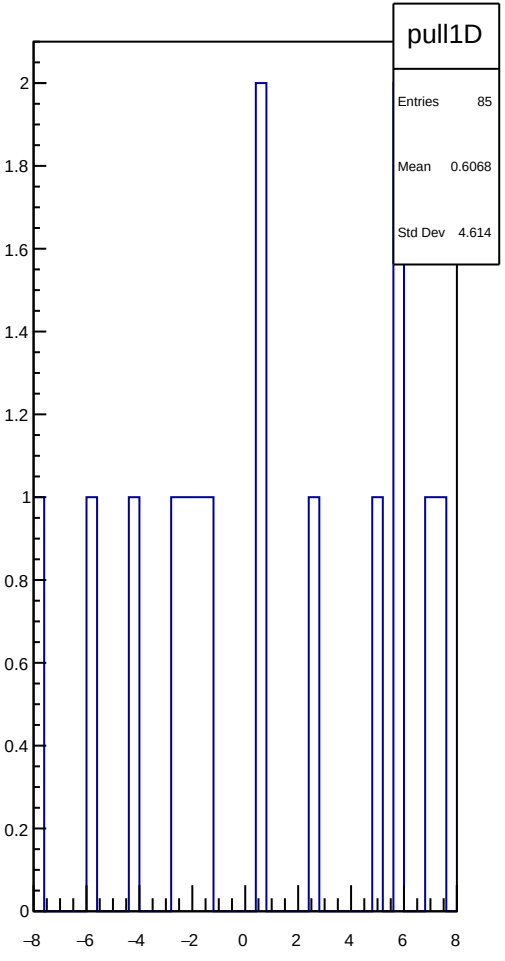

yield_bpm4aY_rms vs run
χ² / ndf 1.699e+04 / 84
p0 0.01205 ± 9.437e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

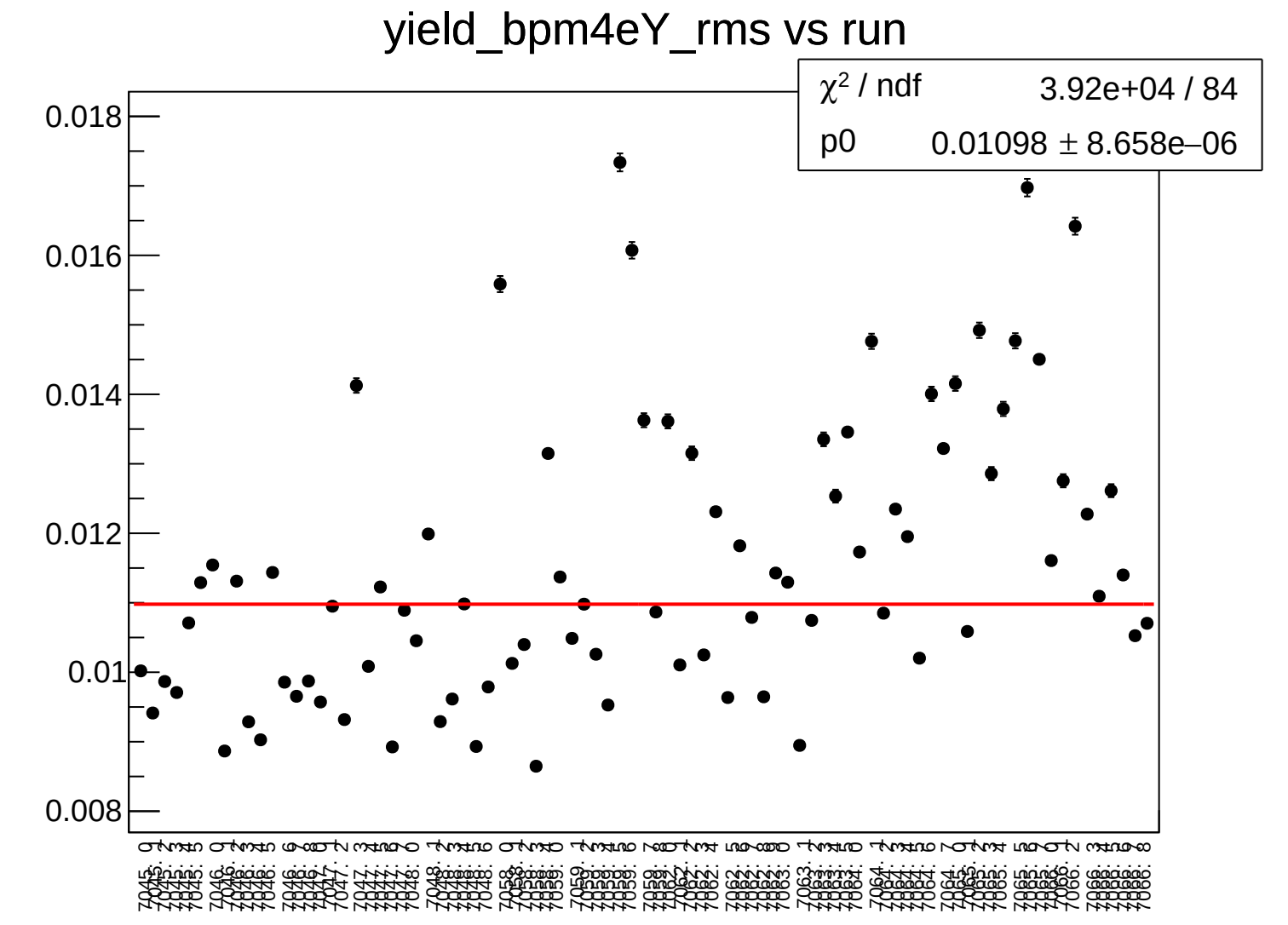

yield_bpm4eX_mean vs run
χ² / ndf 1.884e+05 / 84
p0 −0.3323 ± 2.185e−05
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
pull
Entries 85
Mean 20.87
Std Dev 12.54
100
50
0
−50
−100

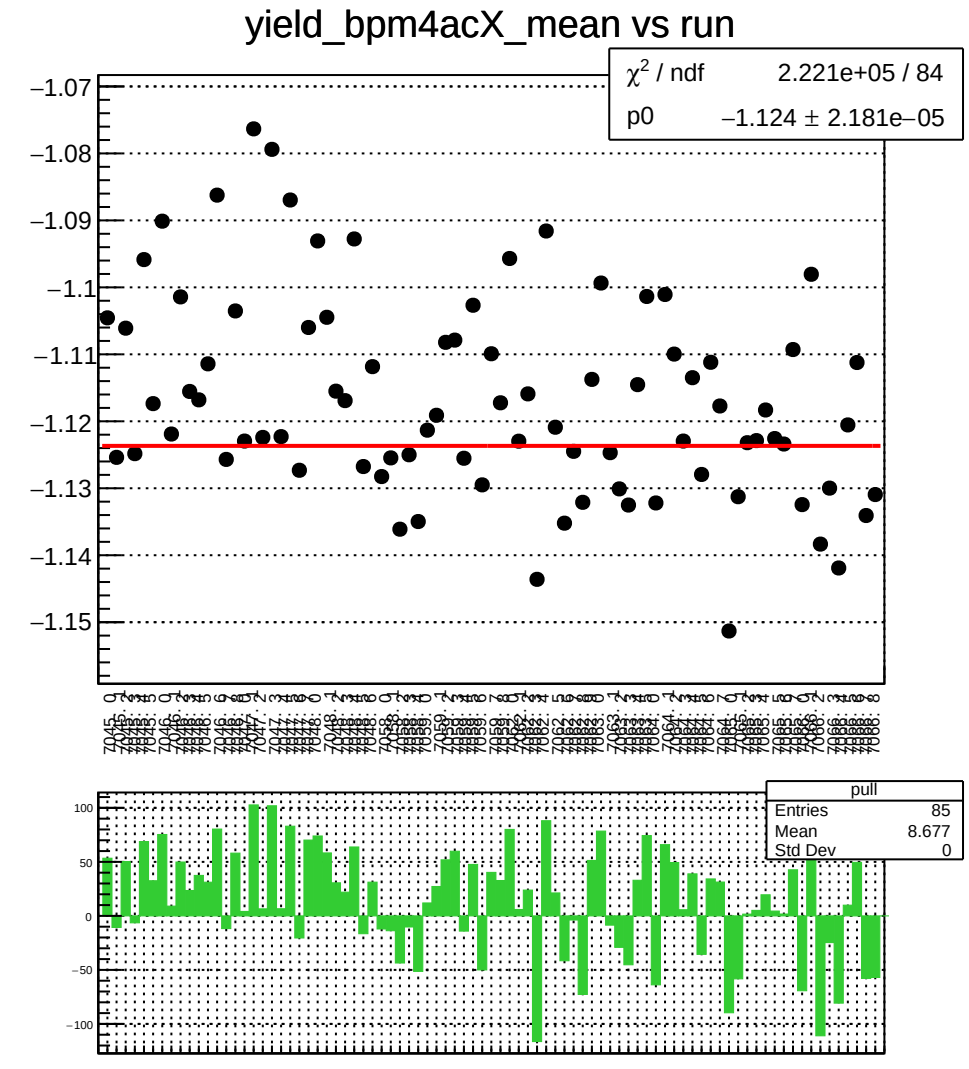

pull1D
Entries 85
Mean 1.115
Std Dev 5.179
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

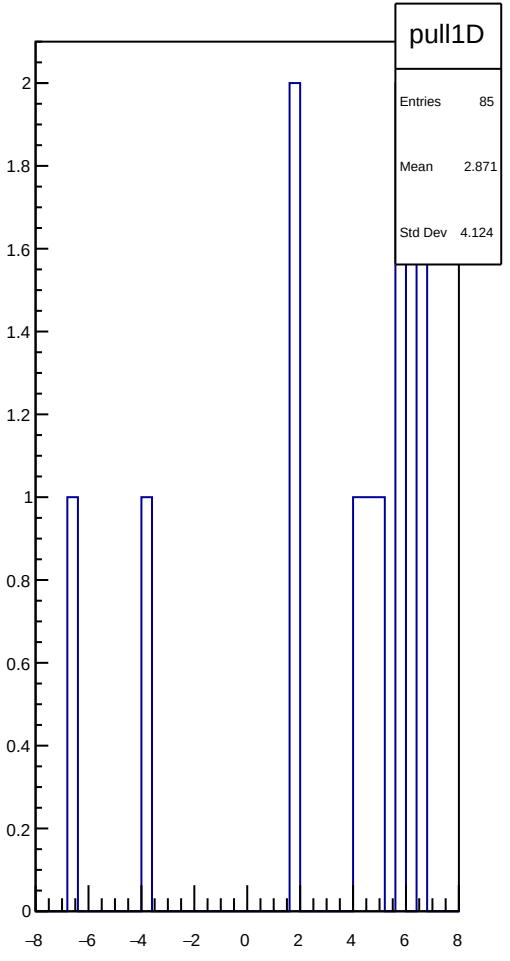

yield_bpm4eX_rms vs run
χ² / ndf 2.5e+05 / 84
p0 0.01826 ± 1.545e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

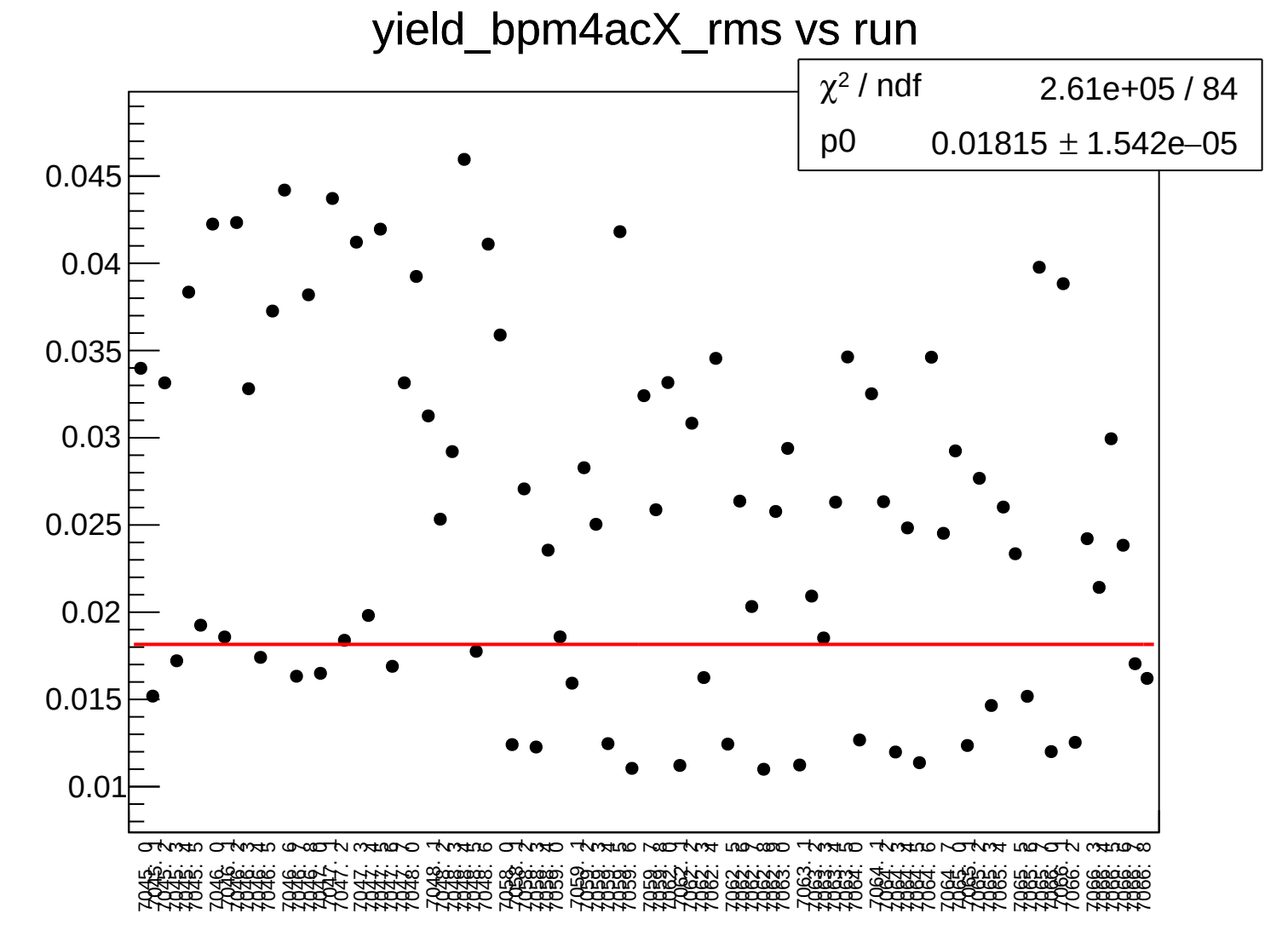

yield_bpm4eY_mean vs run
χ² / ndf 1.107e+05 / 84
p0 0.2921 ± 1.224e−05
0.305
0.3
0.295
0.29
0.285
pull
Entries 85
Mean 2526
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

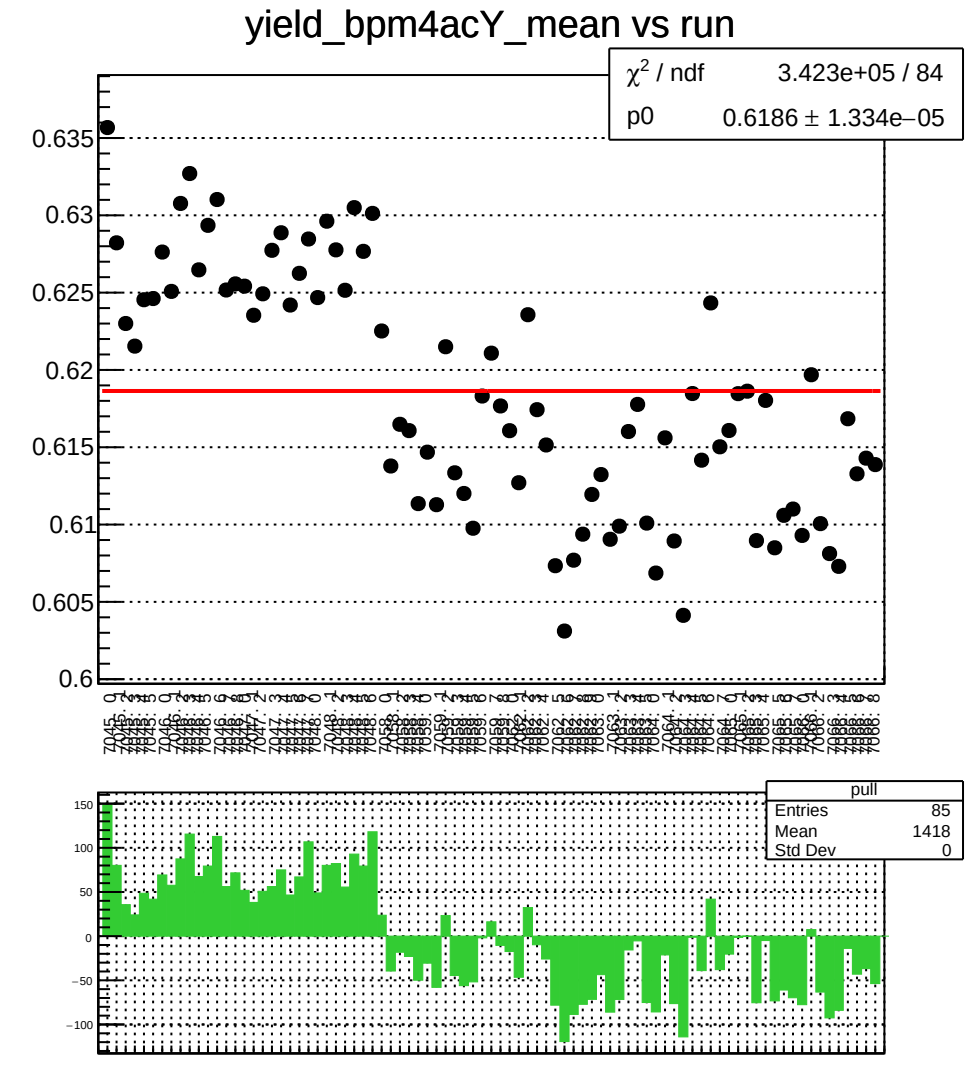

pull1D
Entries 85
Mean 0.6068
Std Dev 4.614
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

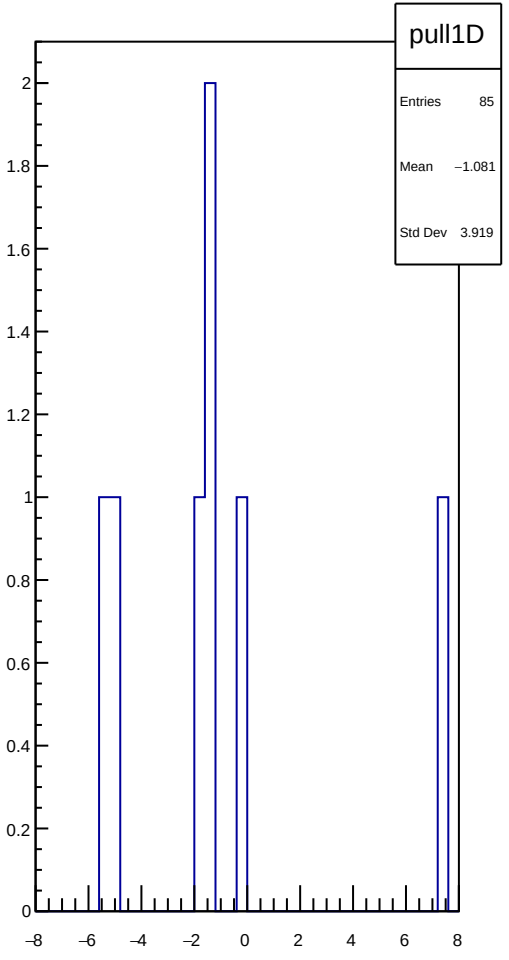

yield_bpm4eY_rms vs run
χ² / ndf 3.92e+04 / 84
p0 0.01098 ± 8.658e−06
0.018
0.016
0.014
0.012
0.01
0.008

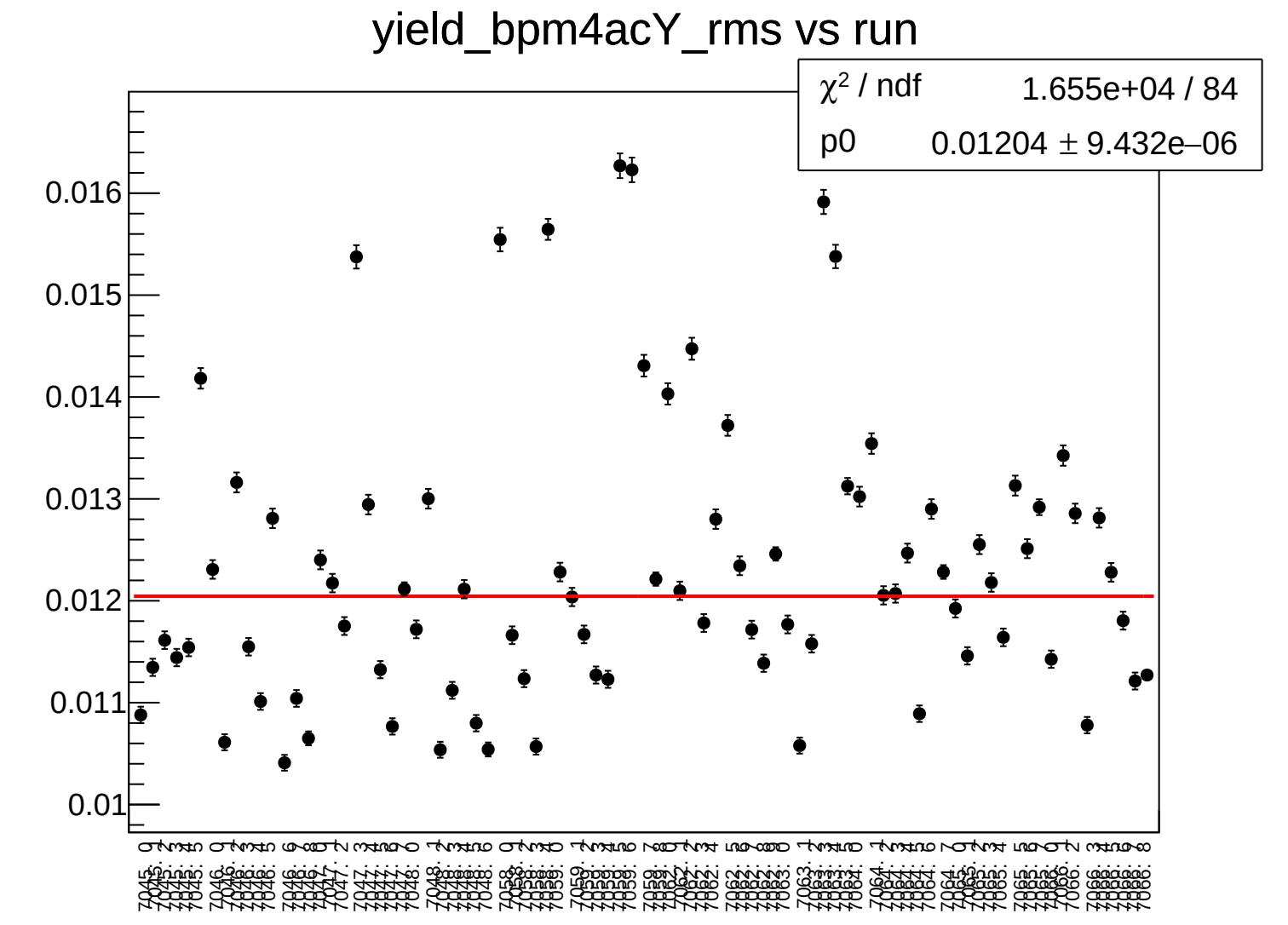

yield_bpm4acX_mean vs run
χ² / ndf 2.221e+05 / 84
p0 −1.124 ± 2.181e−05
−1.07
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
−1.14
−1.15
pull
Entries 85
Mean 8.677
Std Dev 0
100
50
0
−50
−100

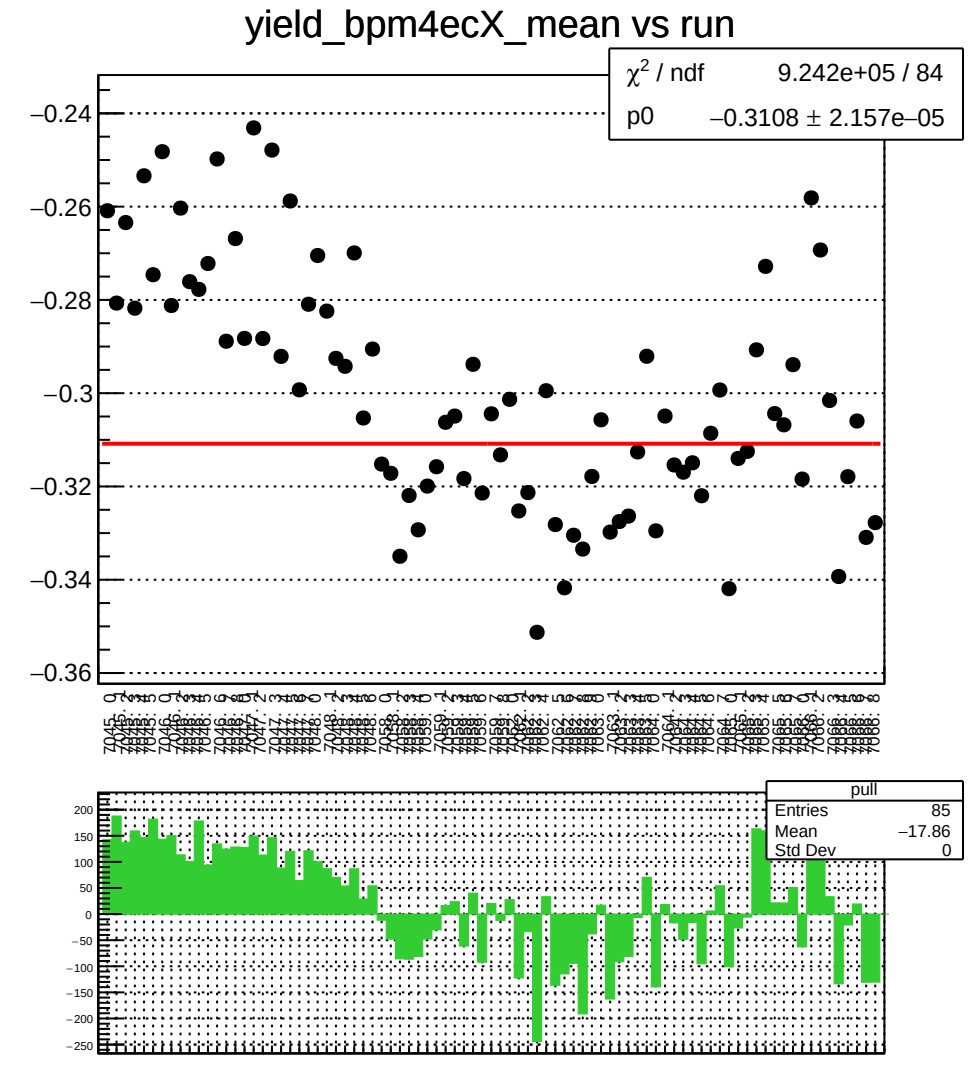

pull1D
Entries 85
Mean 2.871
Std Dev 4.124
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

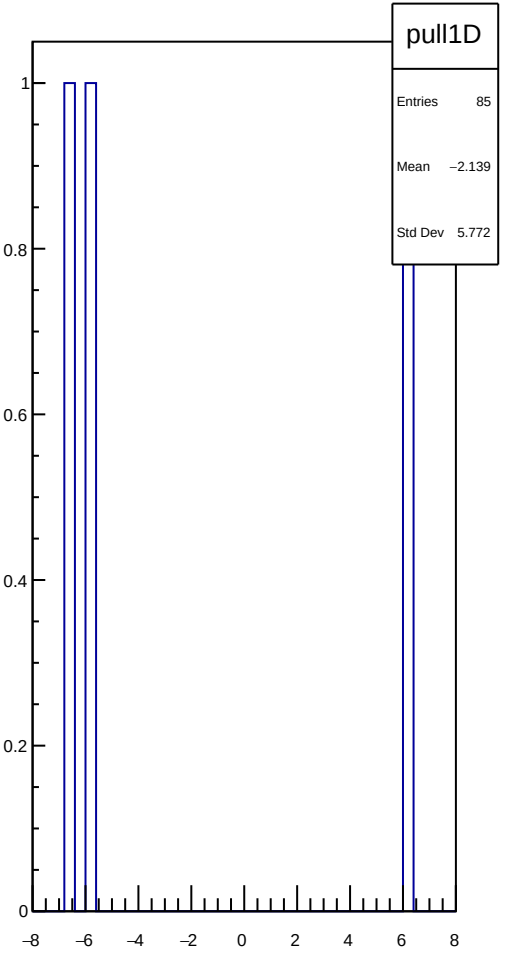

yield_bpm4acX_rms vs run
χ² / ndf 2.61e+05 / 84
p0 0.01815 ± 1.542e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

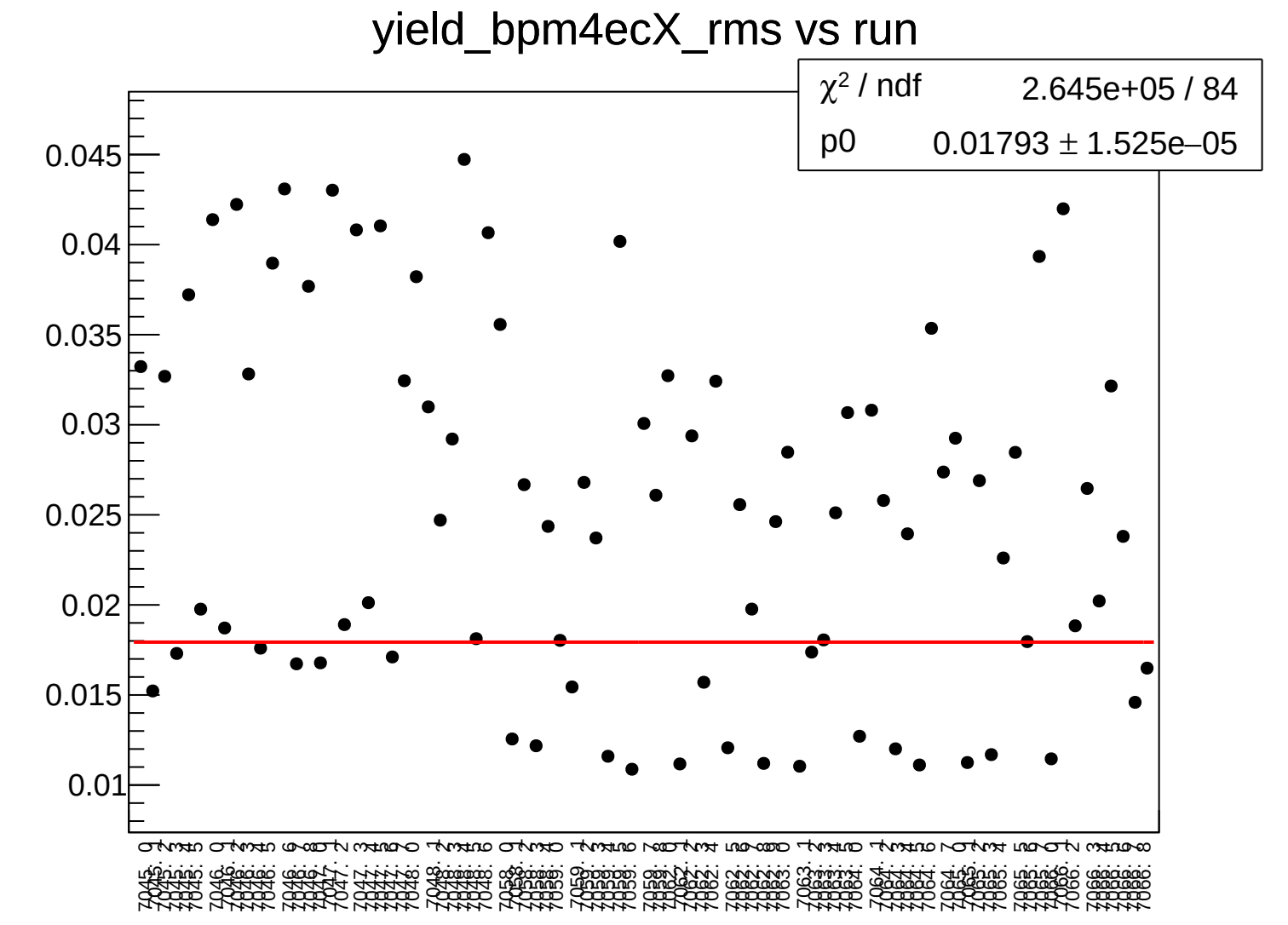

yield_bpm4acY_mean vs run
χ² / ndf 3.423e+05 / 84
p0 0.6186 ± 1.334e−05
0.635
0.63
0.625
0.62
0.615
0.61
0.605
0.6
pull
Entries 85
Mean 1418
Std Dev 0
150
100
50
0
−50
−100

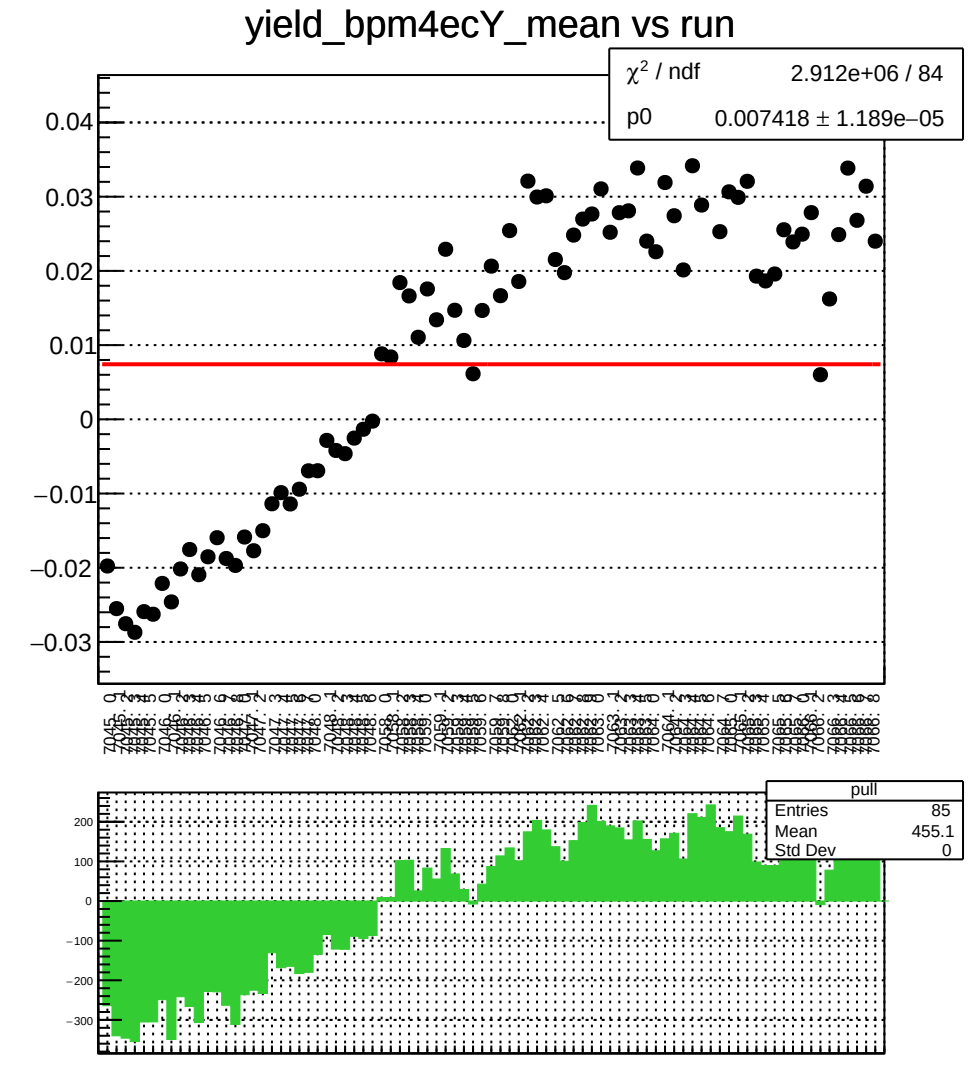

pull1D
Entries 85
Mean −1.081
Std Dev 3.919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

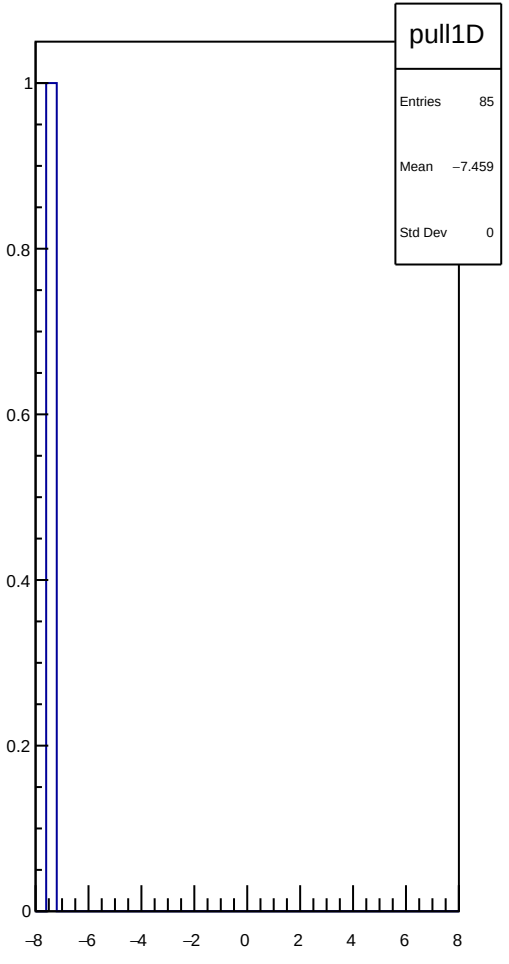

yield_bpm4acY_rms vs run
χ² / ndf 1.655e+04 / 84
p0 0.01204 ± 9.432e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

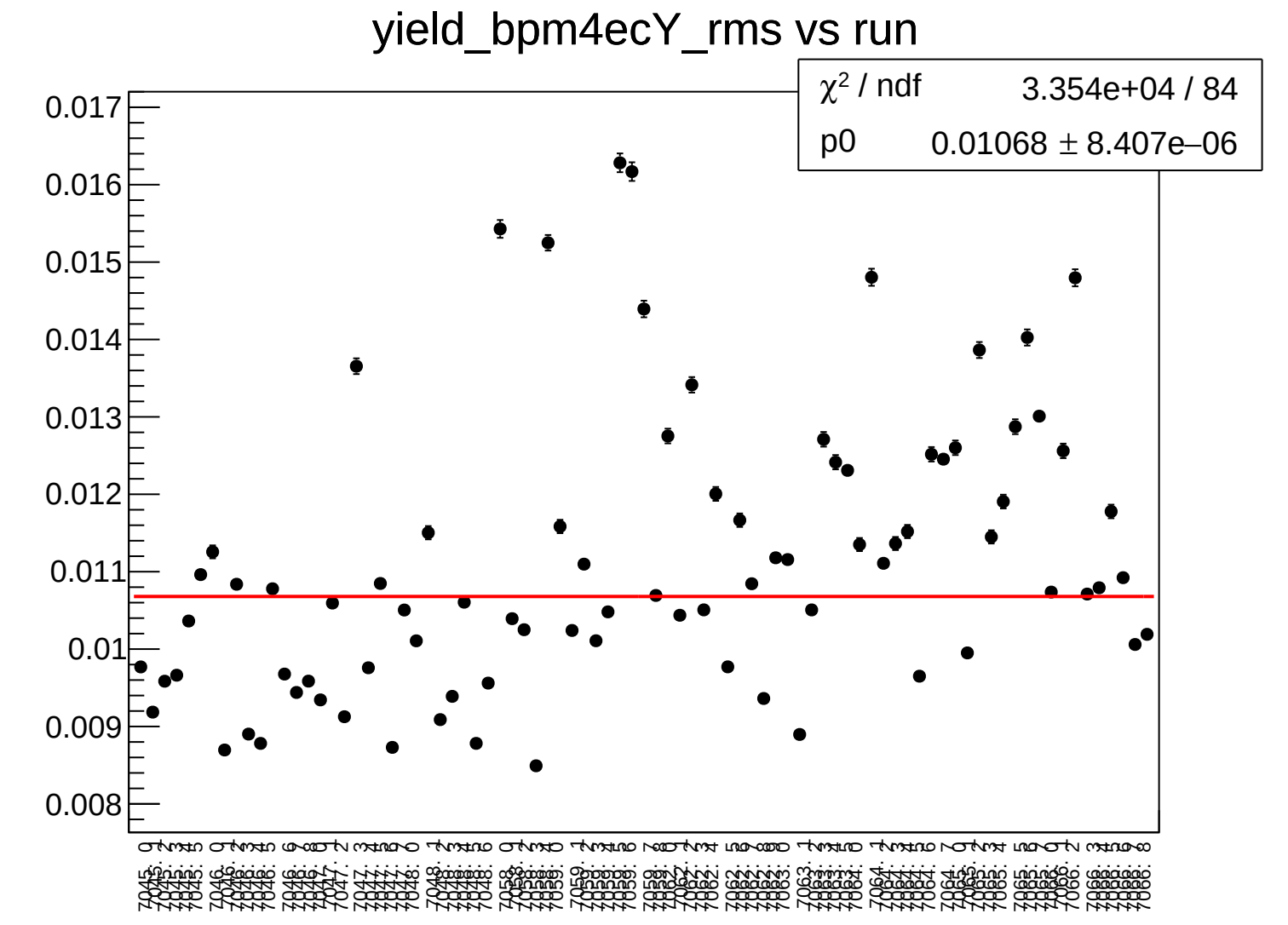

yield_bpm4ecX_mean vs run
χ² / ndf 9.242e+05 / 84
p0 −0.3108 ± 2.157e−05
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 85
Mean −17.86
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

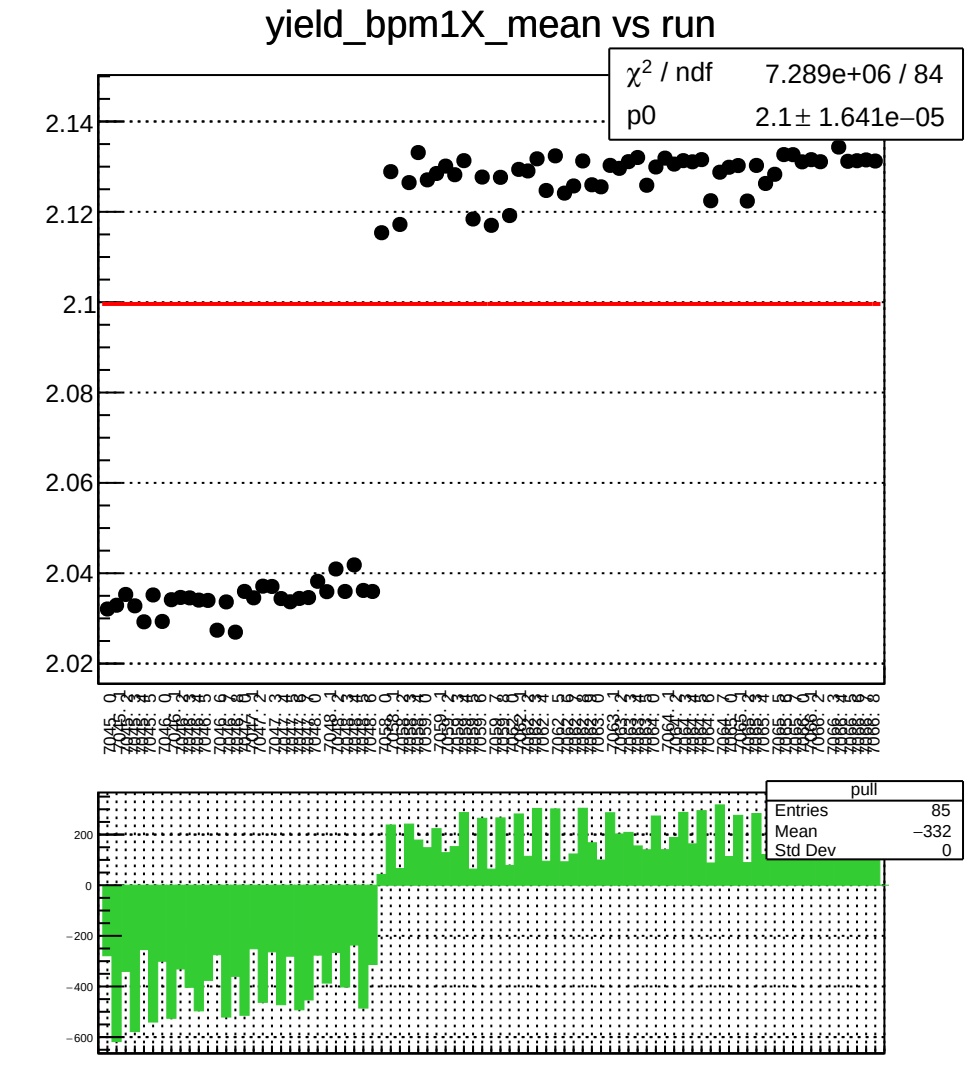

pull1D
Entries 85
Mean −2.139
Std Dev 5.772
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

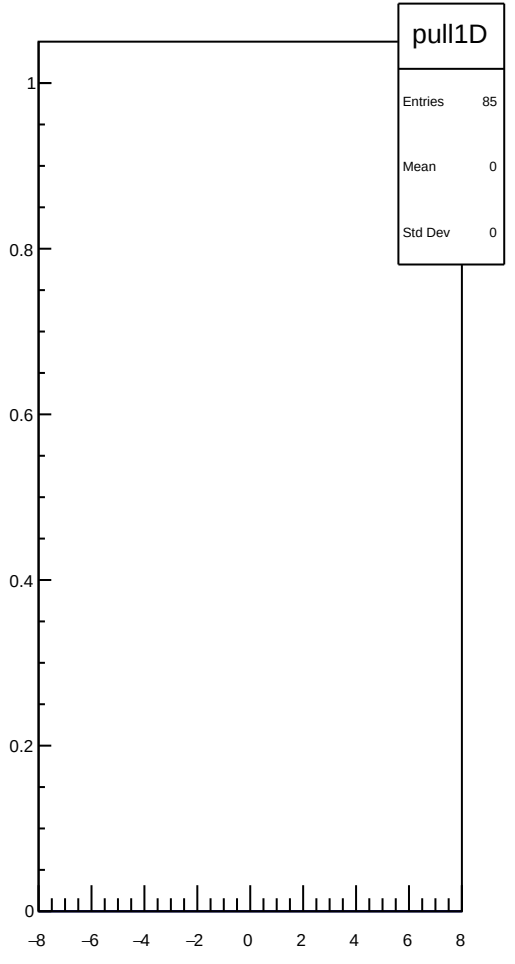

yield_bpm4ecX_rms vs run
χ² / ndf 2.645e+05 / 84
p0 0.01793 ± 1.525e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

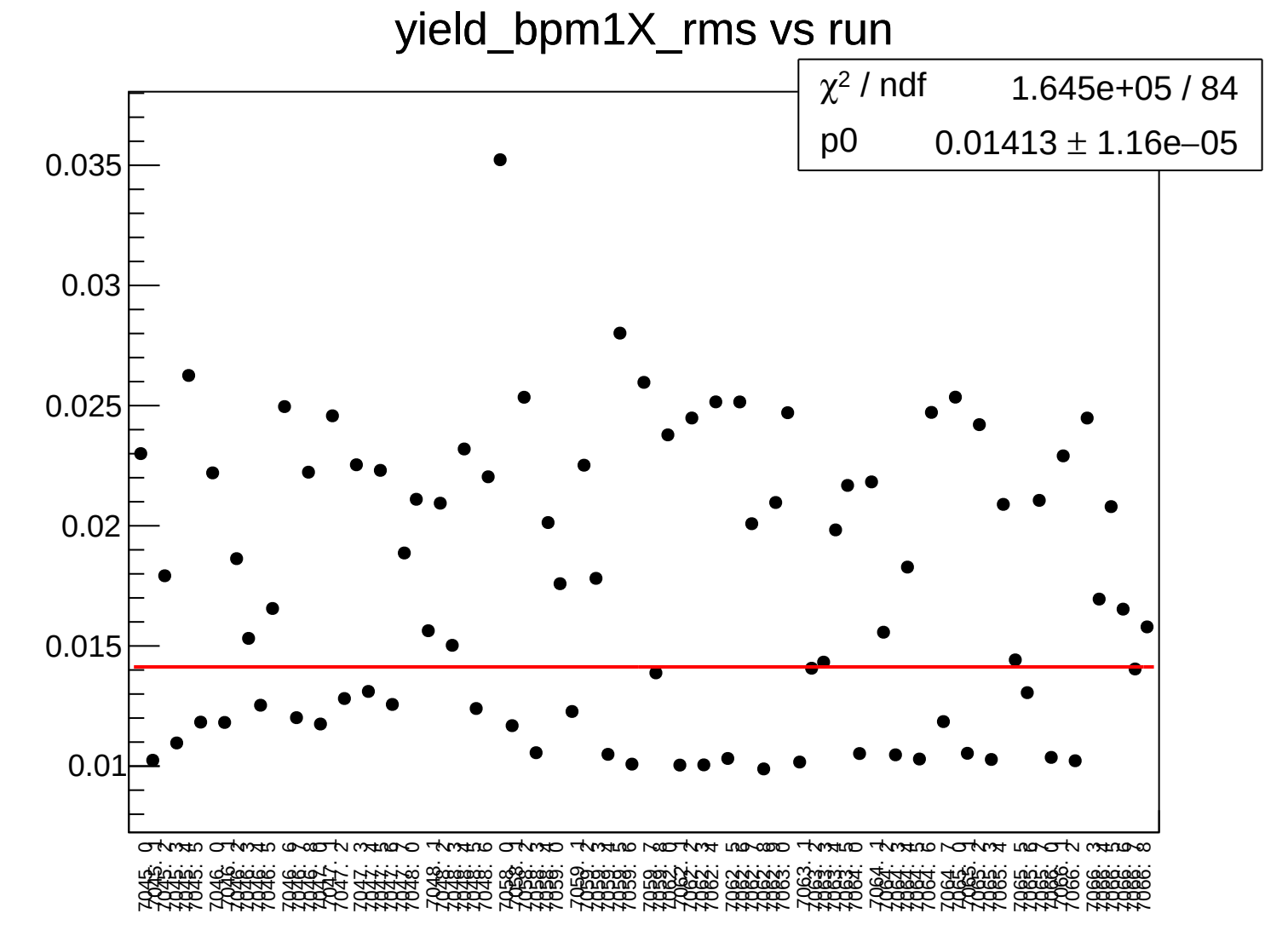

yield_bpm4ecY_mean vs run
χ² / ndf 2.912e+06 / 84
p0 0.007418 ± 1.189e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 455.1
Std Dev 0
200
100
0
−100
−200
−300

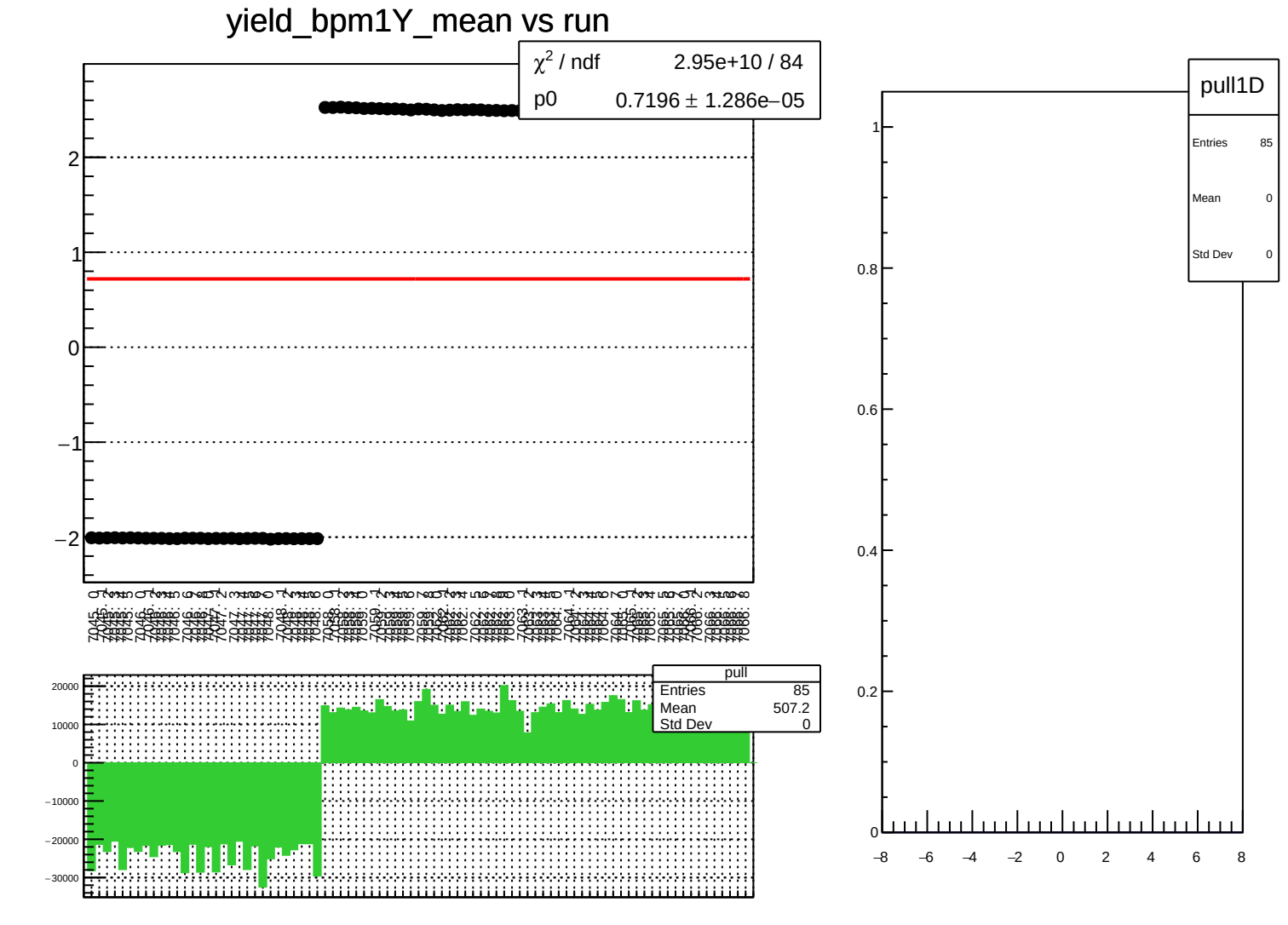

pull1D
Entries 85
Mean −7.459
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

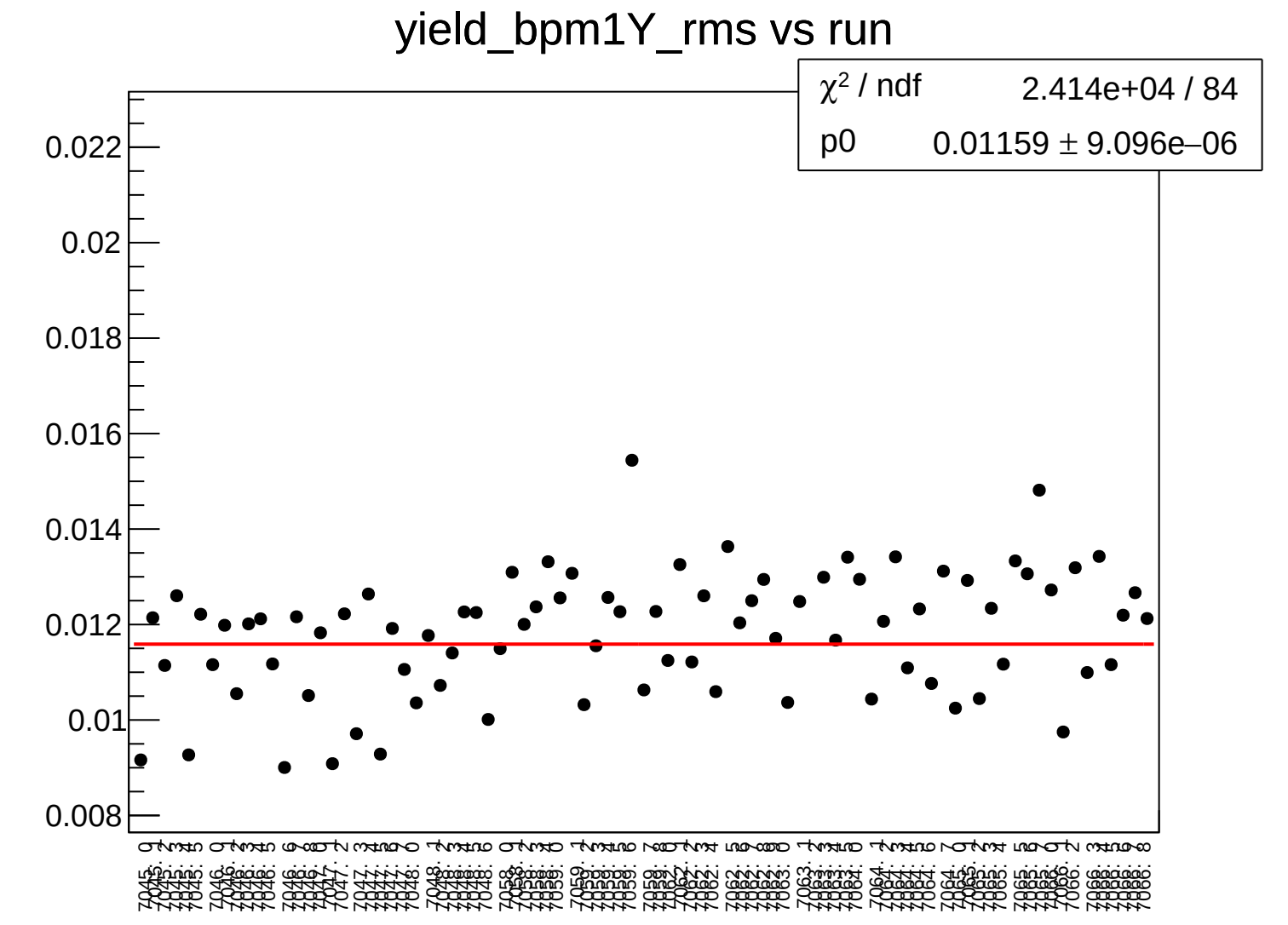

yield_bpm4ecY_rms vs run
χ² / ndf 3.354e+04 / 84
p0 0.01068 ± 8.407e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

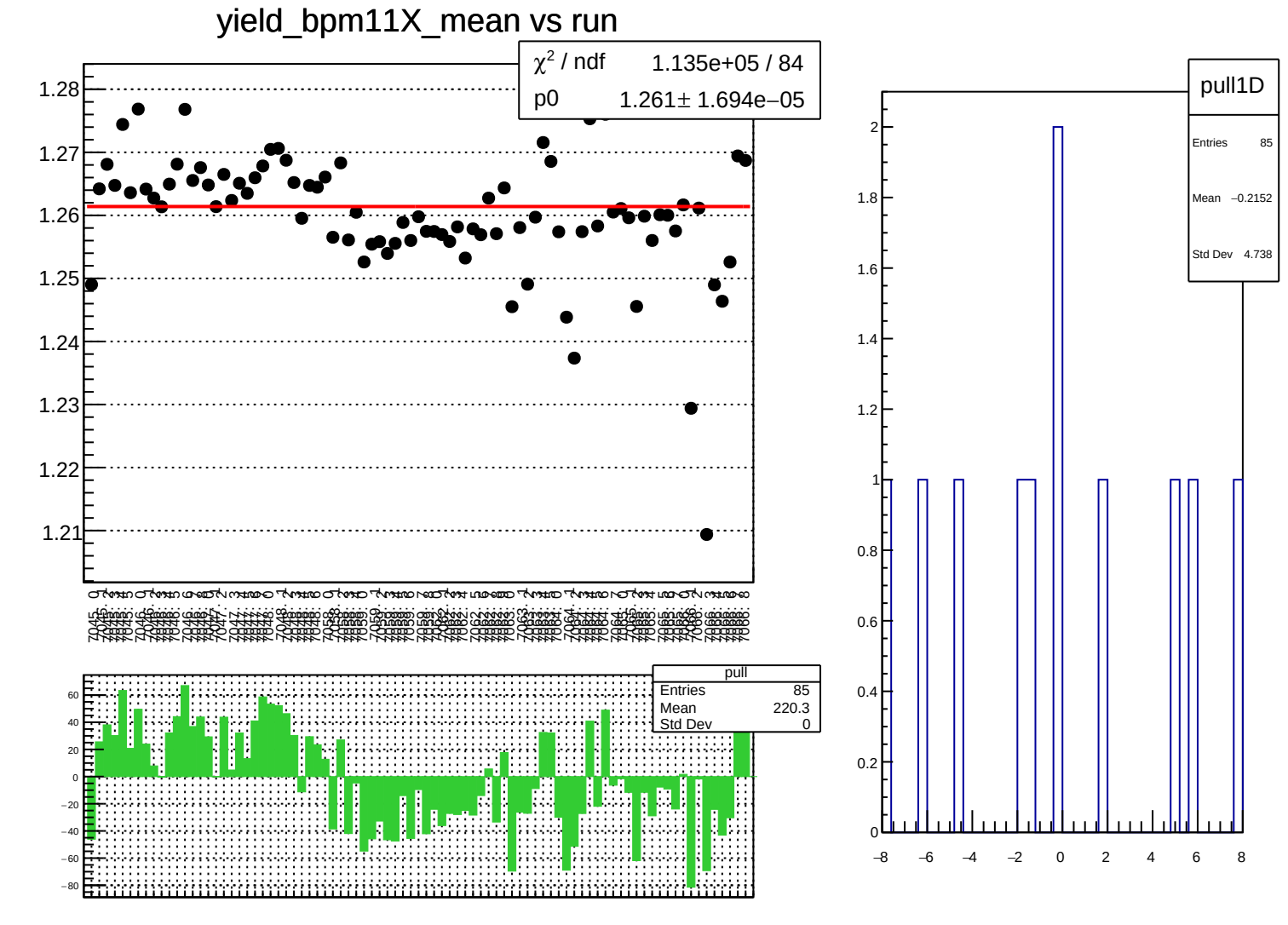

yield_bpm1X_mean vs run
χ² / ndf 7.289e+06 / 84
p0 2.1 ± 1.641e−05
2.14
2.12
2.1
2.08
2.06
2.04
2.02
pull
Entries 85
Mean −332
Std Dev 0
200
0
−200
−400
−600

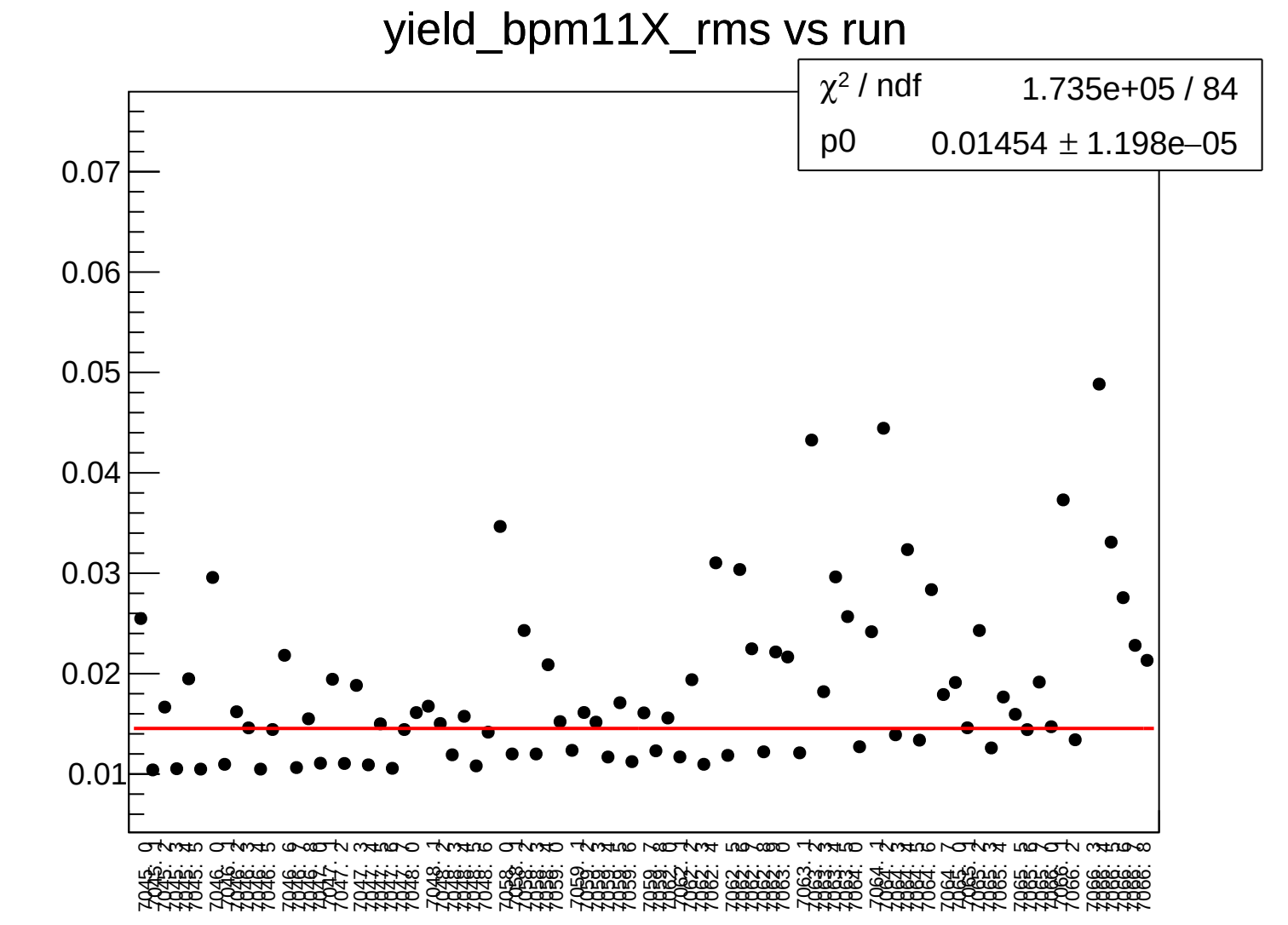

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

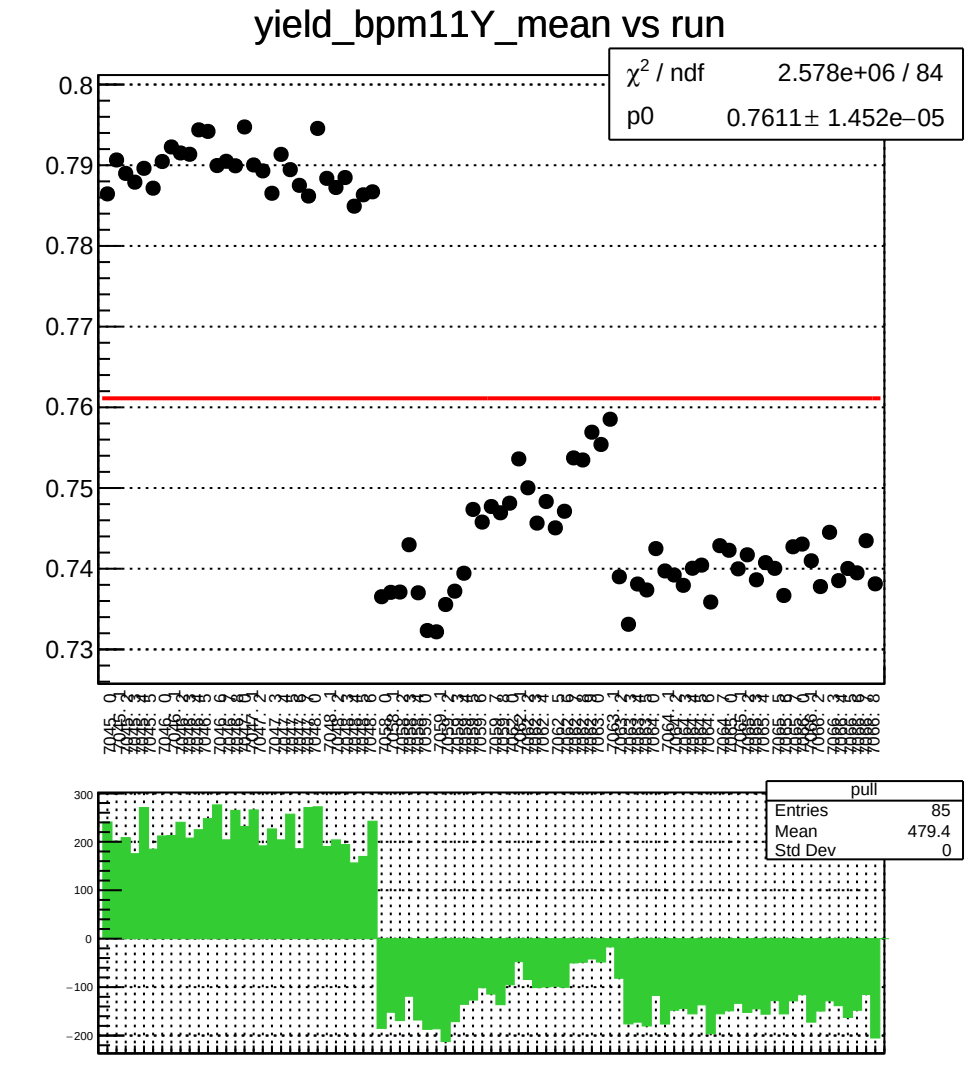

yield_bpm1X_rms vs run
χ² / ndf 1.645e+05 / 84
p0 0.01413 ± 1.16e−05
0.035
0.03
0.025
0.02
0.015
0.01

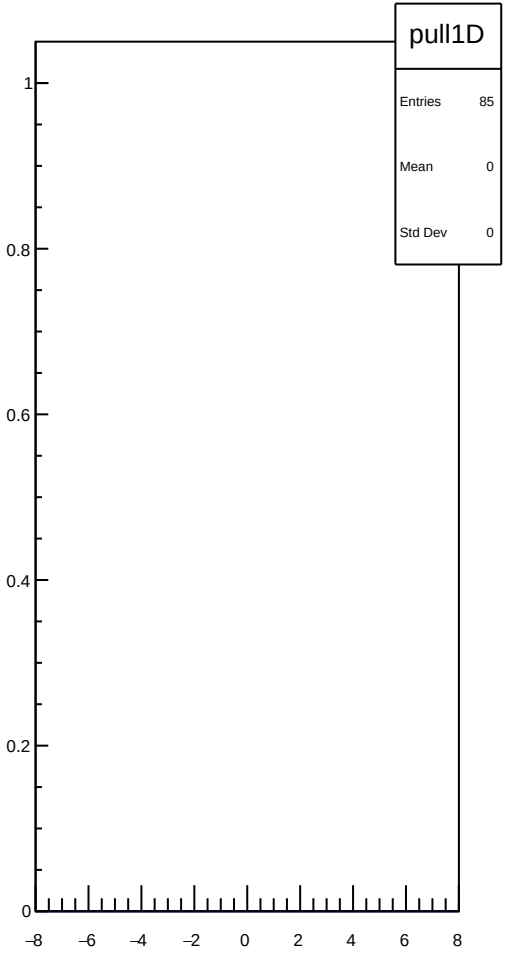

yield_bpm1Y_mean vs run
χ² / ndf 2.95e+10 / 84
p0 0.7196 ± 1.286e−05
pull
Entries 85
Mean 507.2
Std Dev 0
pull1D
Entries 85
Mean 0
Std Dev 0

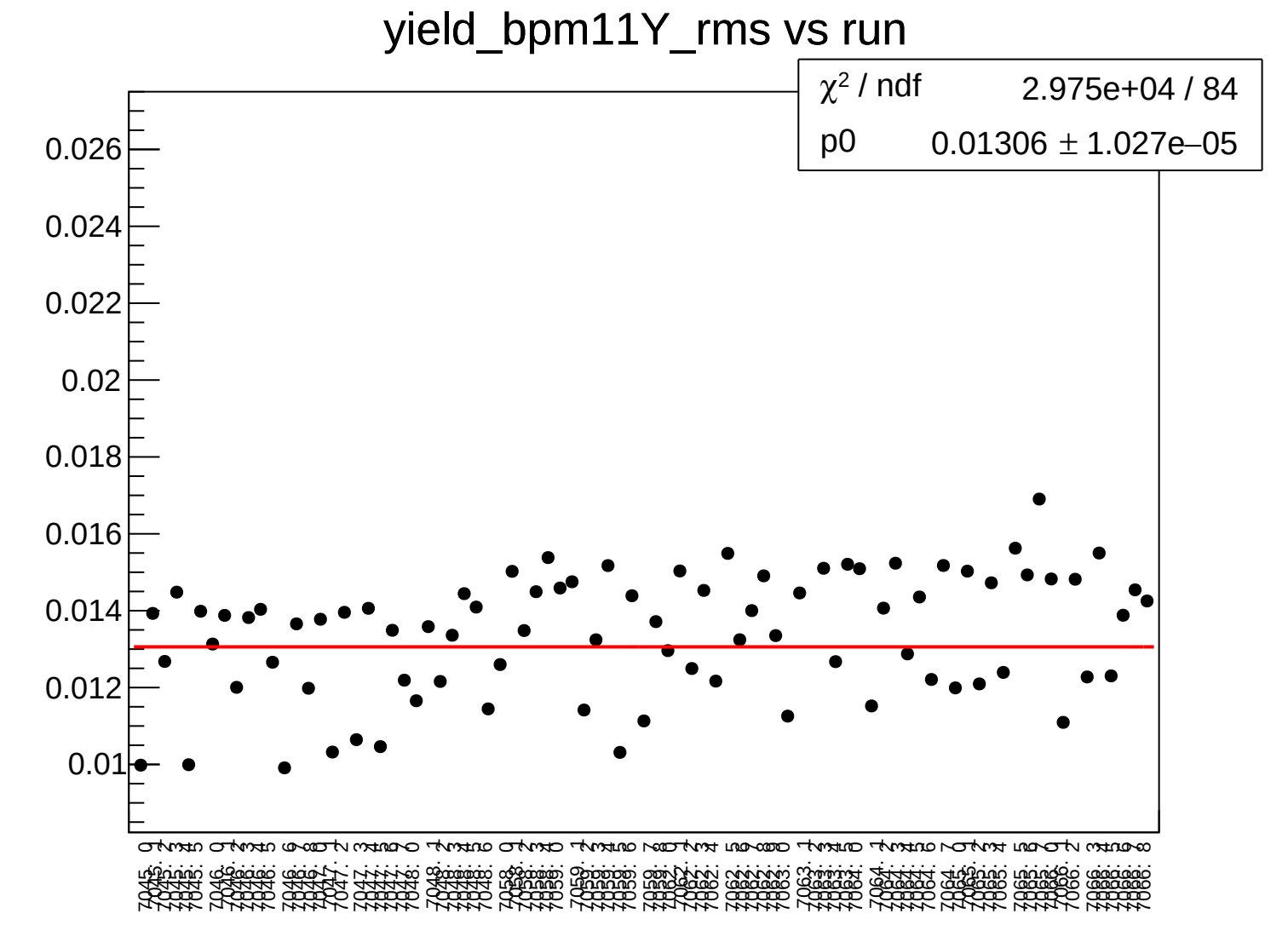

yield_bpm1Y_rms vs run
χ² / ndf 2.414e+04 / 84
p0 0.01159 ± 9.096e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

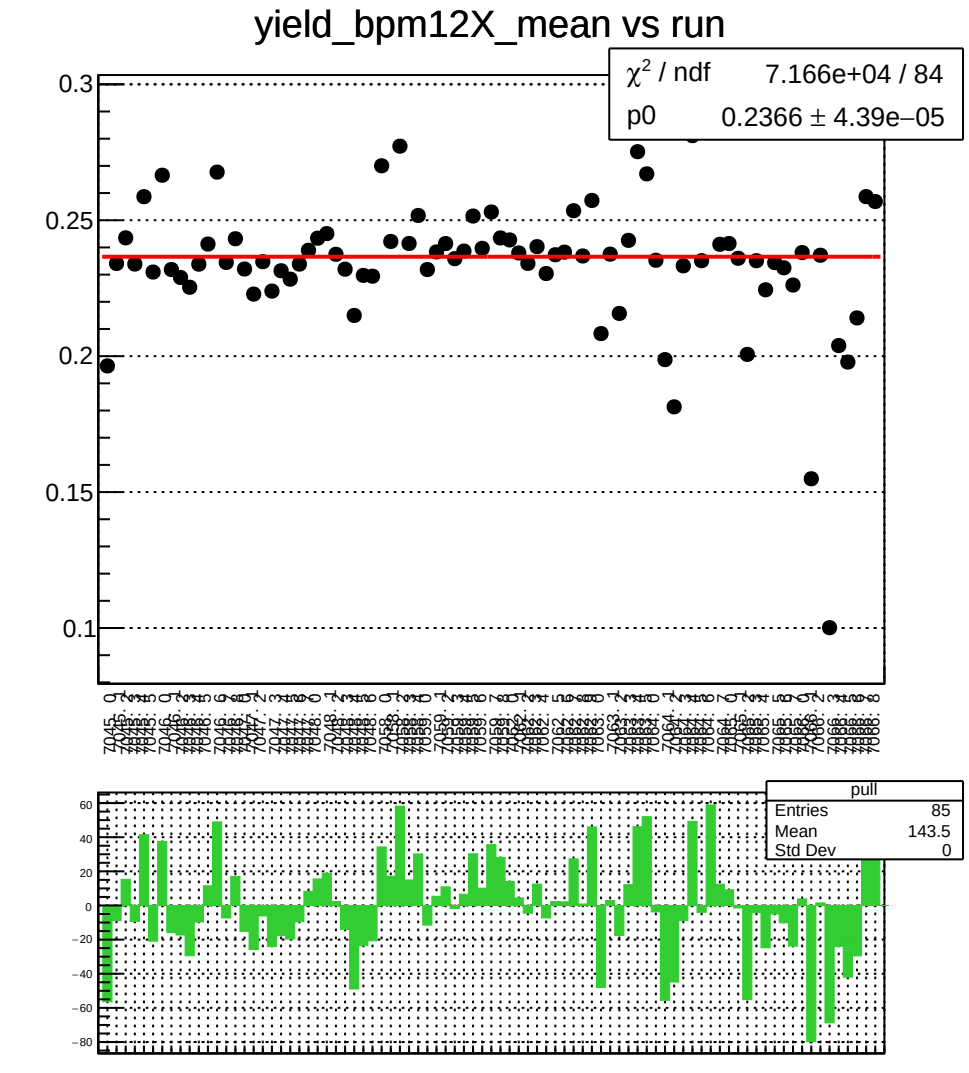

yield_bpm11X_mean vs run
χ² / ndf 1.135e+05 / 84
p0 1.261± 1.694e−05
1.28
1.27
1.26
1.25
1.24
1.23
1.22
1.21
pull
Entries 85
Mean 220.3
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 85
Mean −0.2152
Std Dev 4.738
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

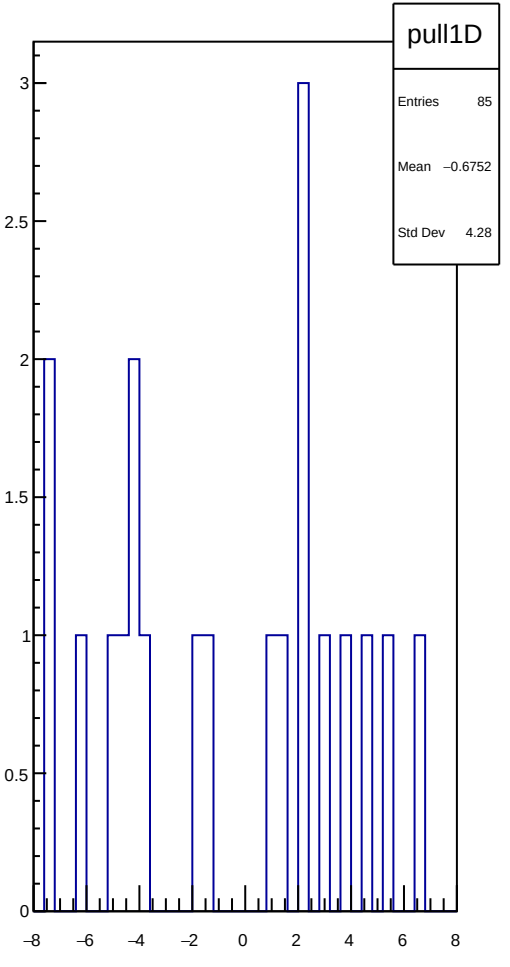

yield_bpm11X_rms vs run
χ² / ndf 1.735e+05 / 84
p0 0.01454 ± 1.198e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

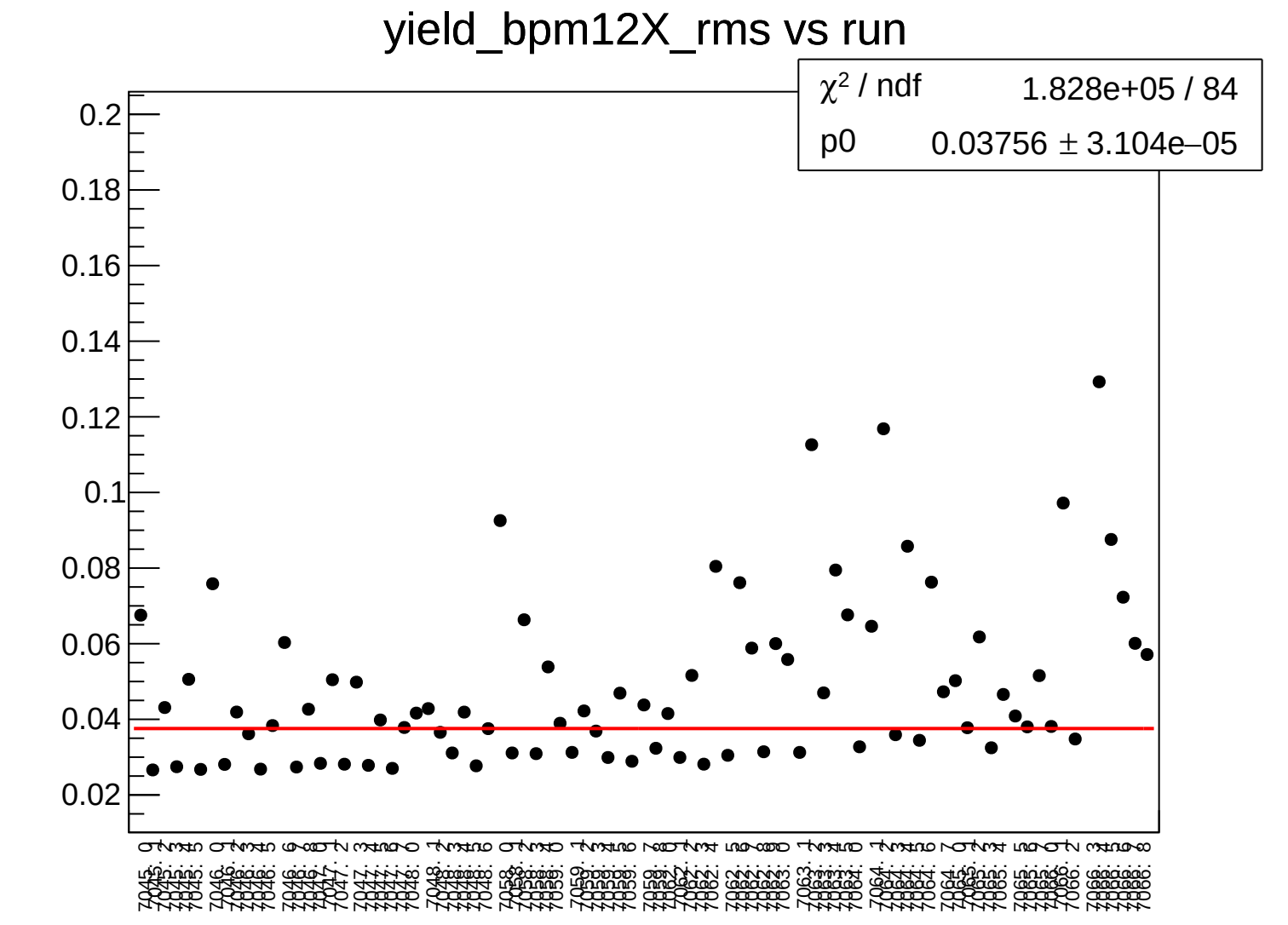

yield_bpm11Y_mean vs run
χ² / ndf 2.578e+06 / 84
p0 0.7611 ± 1.452e−05
0.8
0.79
0.78
0.77
0.76
0.75
0.74
0.73
pull
Entries 85
Mean 479.4
Std Dev 0
300
200
100
0
−100
−200

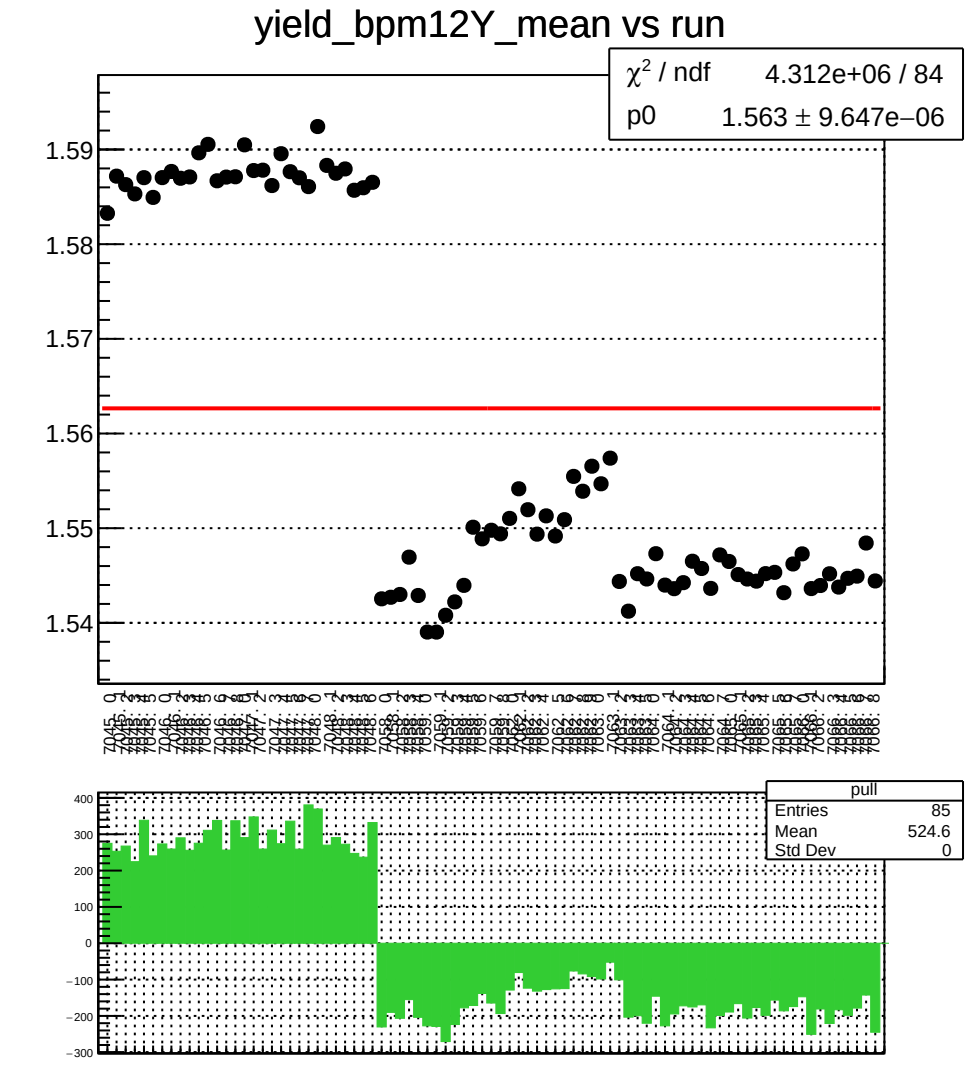

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

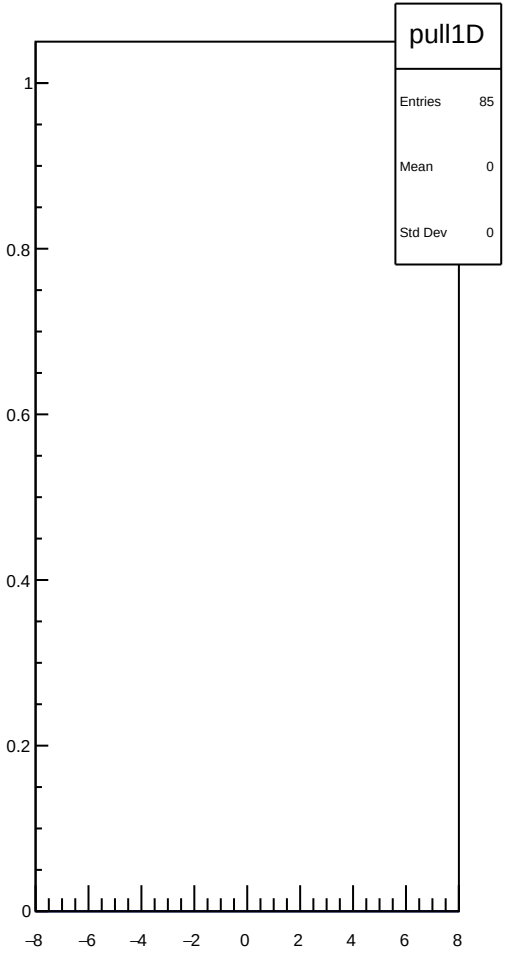

yield_bpm11Y_rms vs run
χ² / ndf 2.975e+04 / 84
p0 0.01306 ± 1.027e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

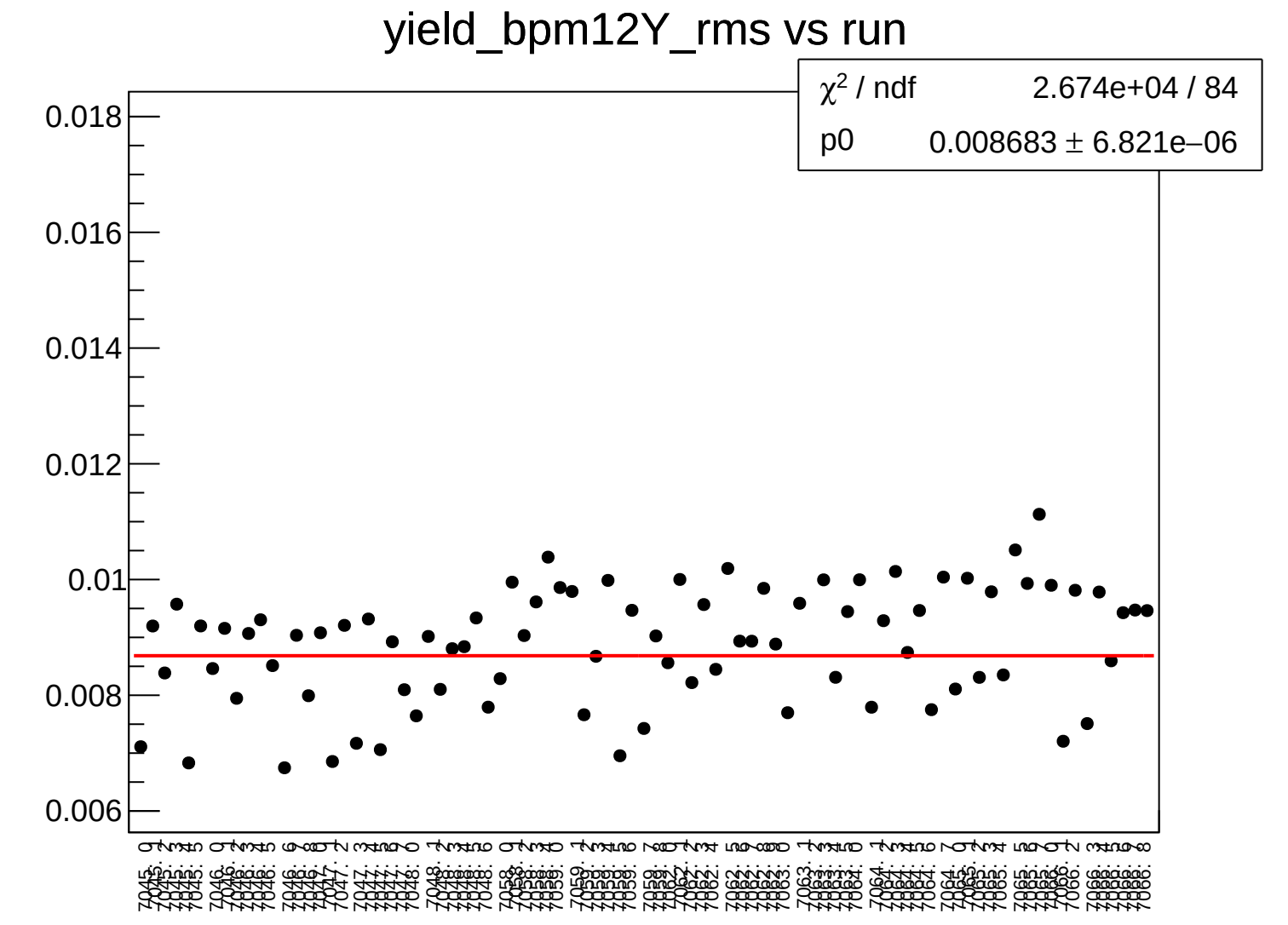

yield_bpm12X_mean vs run
χ² / ndf 7.166e+04 / 84
p0 0.2366 ± 4.39e−05
0.3
0.25
0.2
0.15
0.1
pull
Entries 85
Mean 143.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

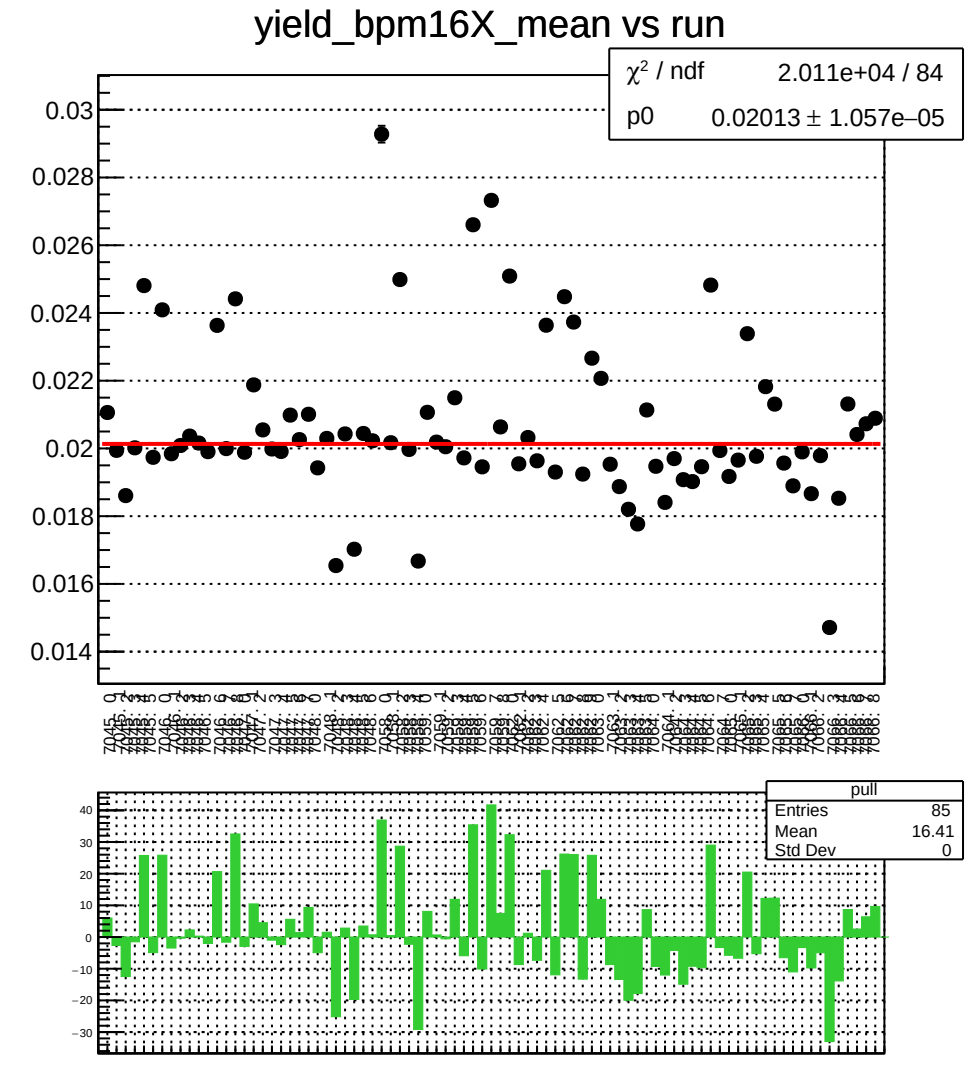

pull1D
Entries 85
Mean −0.6752
Std Dev 4.28
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

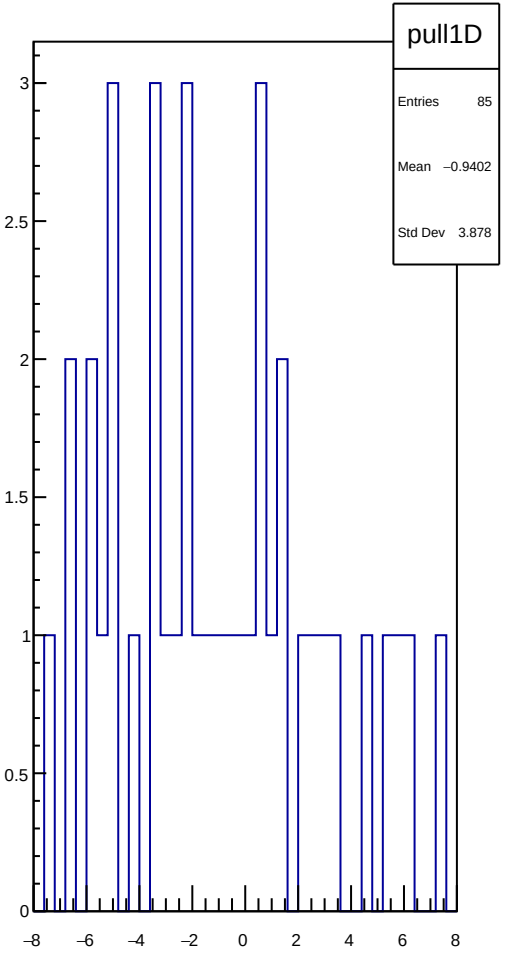

yield_bpm12X_rms vs run
χ² / ndf 1.828e+05 / 84
p0 0.03756 ± 3.104e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

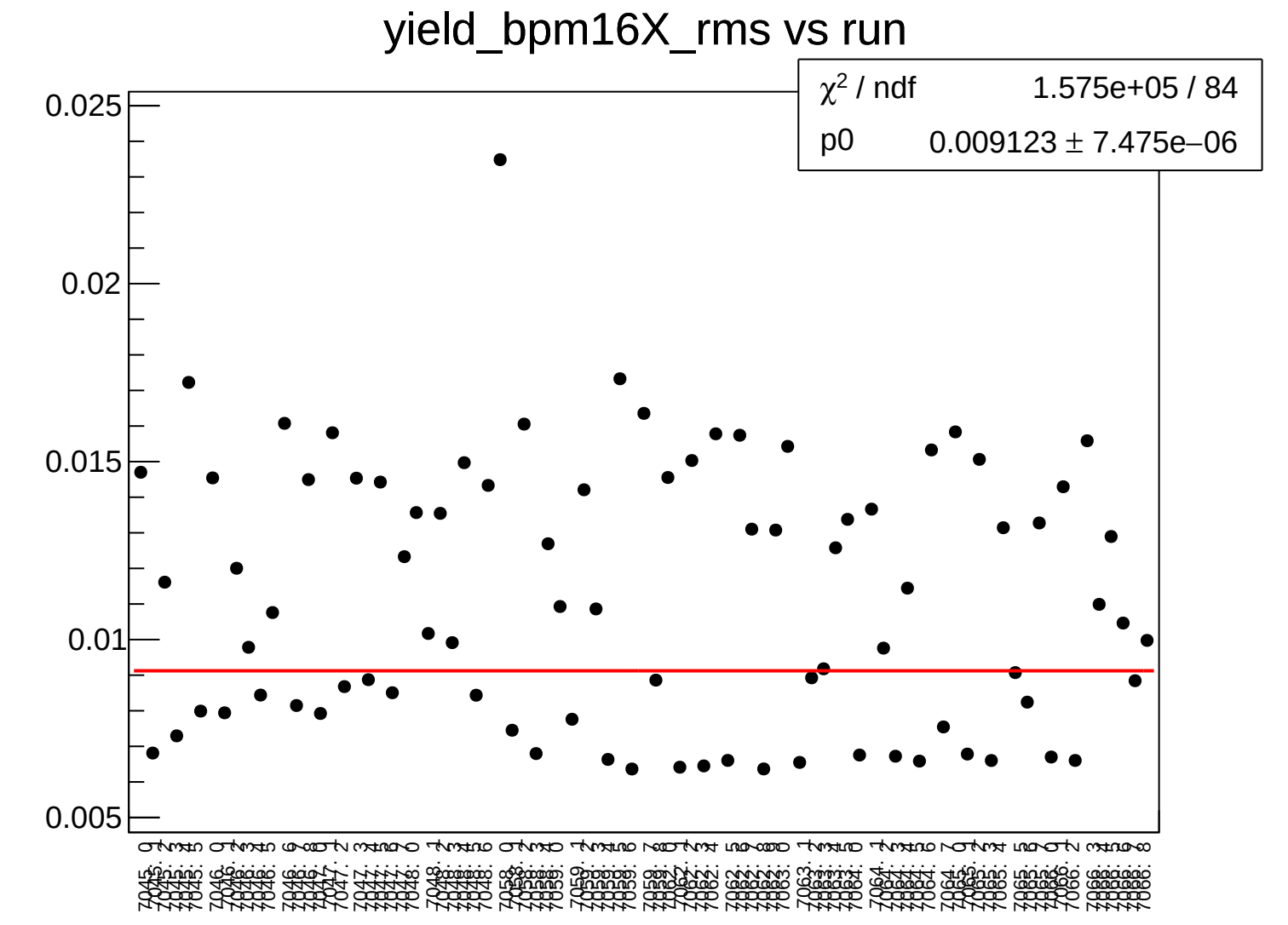

yield_bpm12Y_mean vs run
χ² / ndf 4.312e+06 / 84
p0 1.563 ± 9.647e−06
1.59
1.58
1.57
1.56
1.55
1.54
pull
Entries 85
Mean 524.6
Std Dev 0
400
300
200
100
0
−100
−200
−300

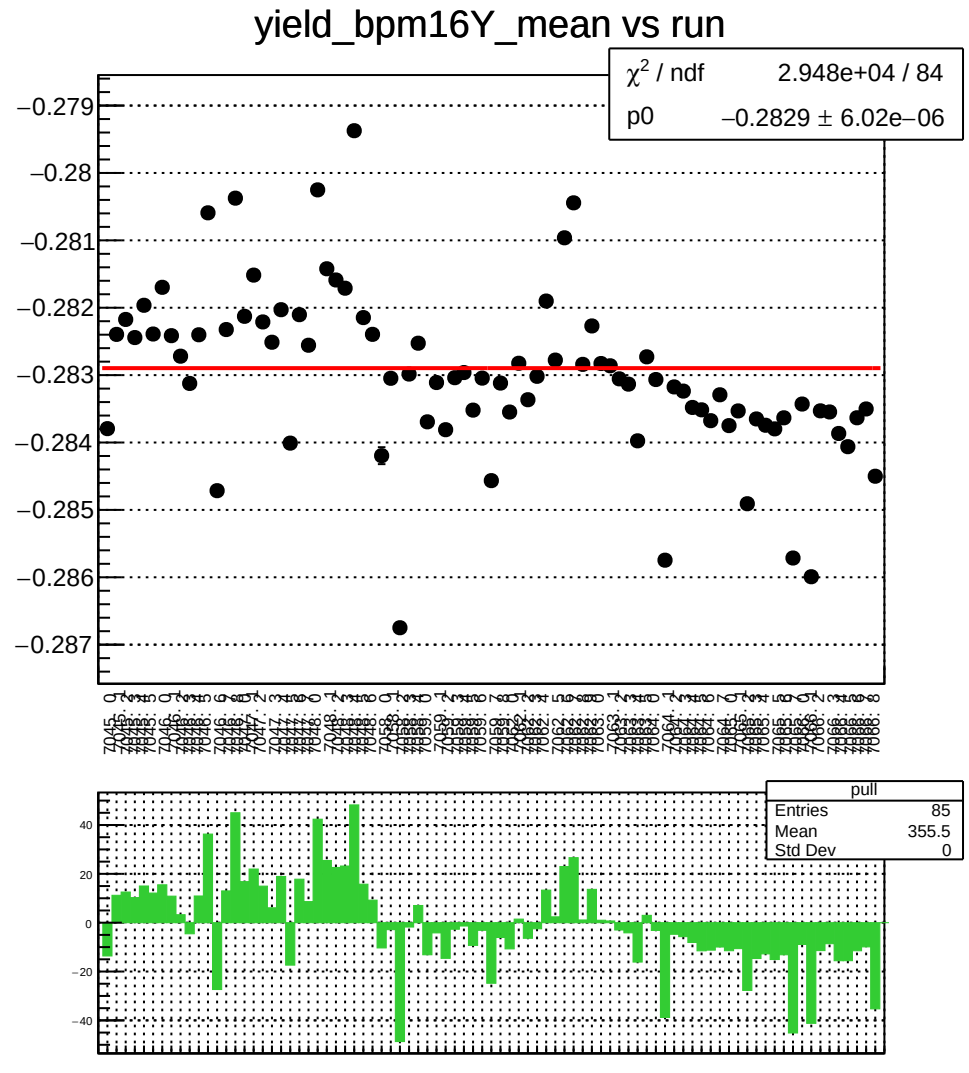

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

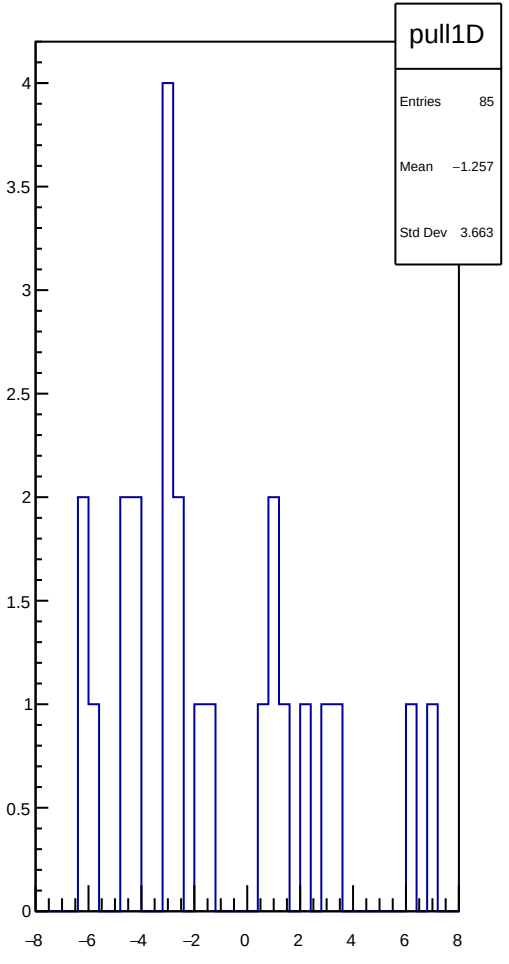

yield_bpm12Y_rms vs run
χ² / ndf 2.674e+04 / 84
p0 0.008683 ± 6.821e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

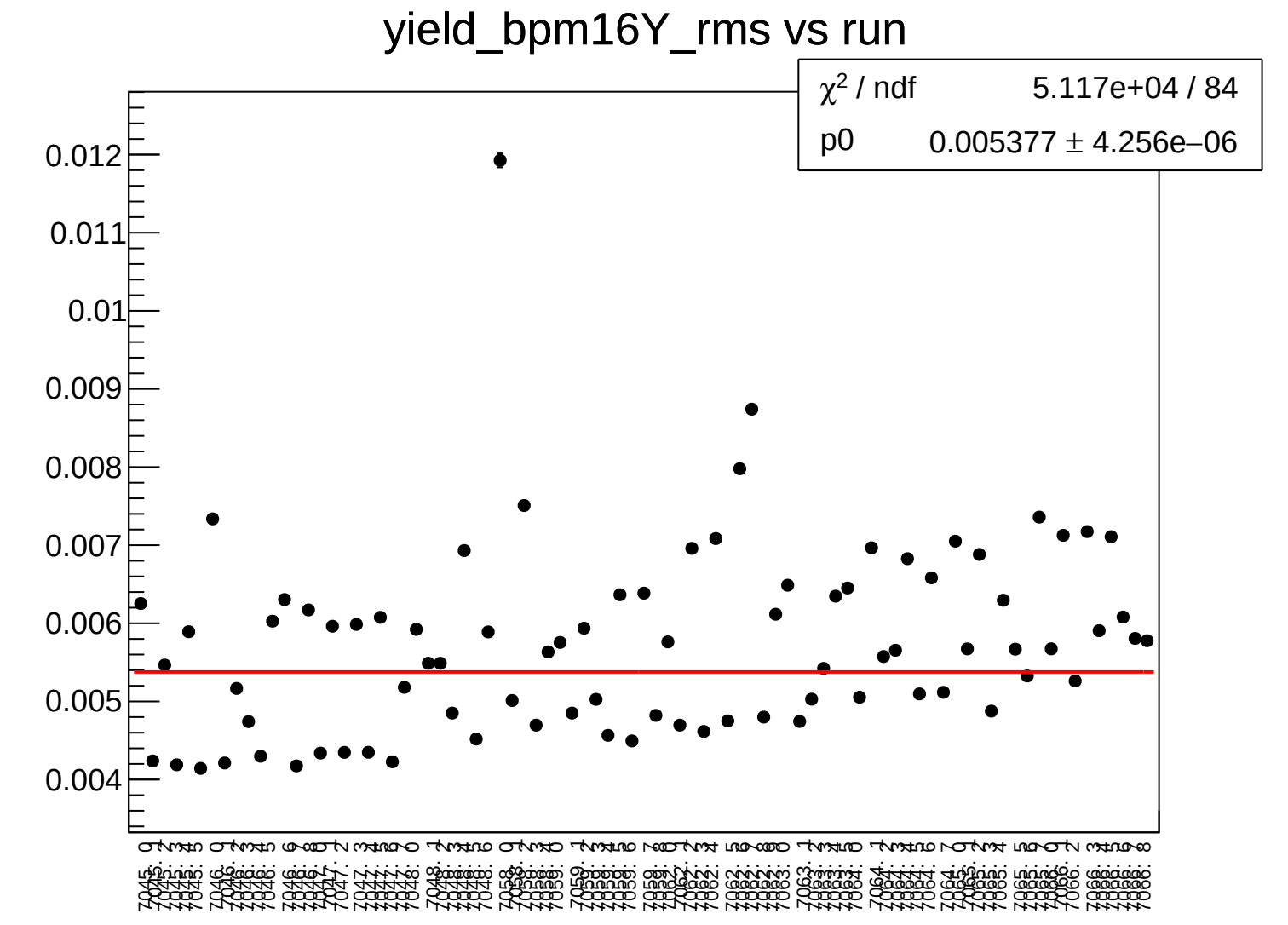

yield_bpm16X_mean vs run
χ² / ndf 2.011e+04 / 84
p0 0.02013 ± 1.057e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
pull
Entries 85
Mean 16.41
Std Dev 0
40
30
20
10
0
−10
−20
−30

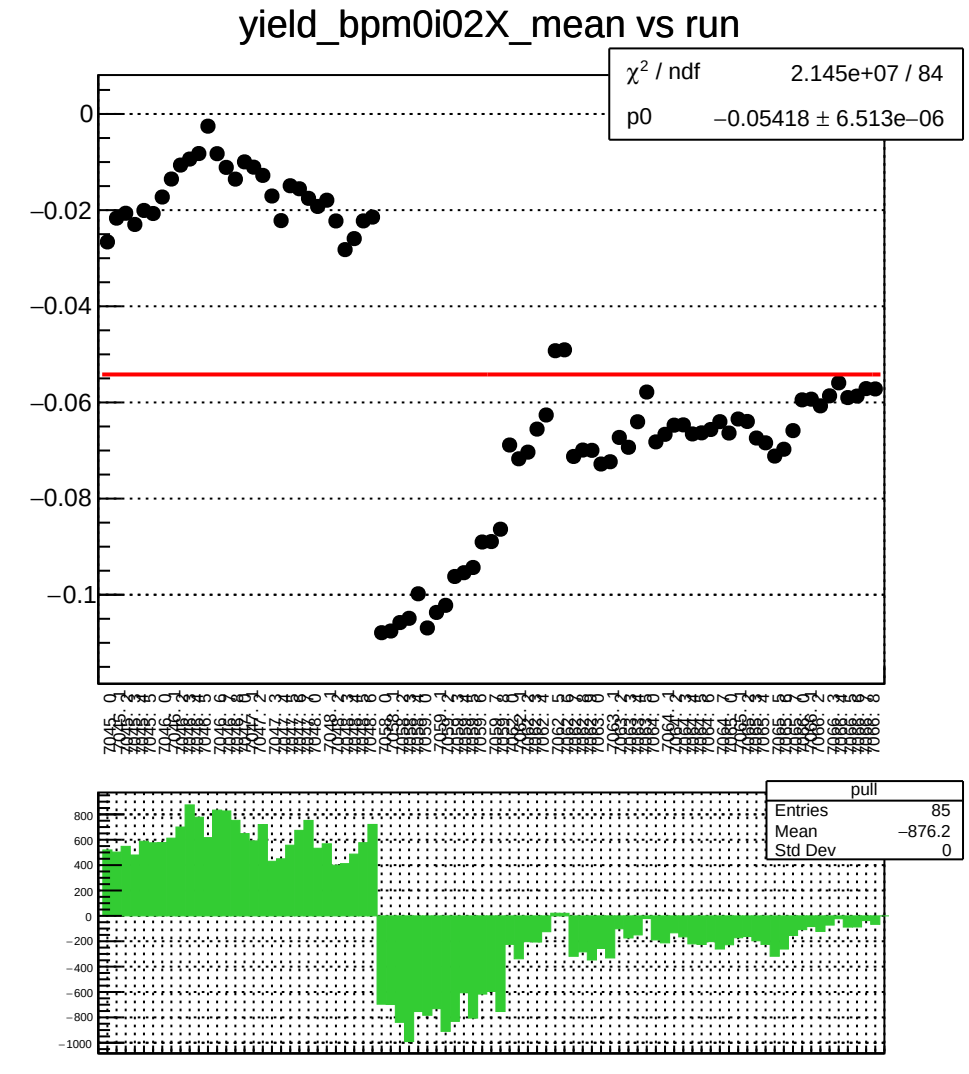

pull1D
Entries 85
Mean −0.9402
Std Dev 3.878
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

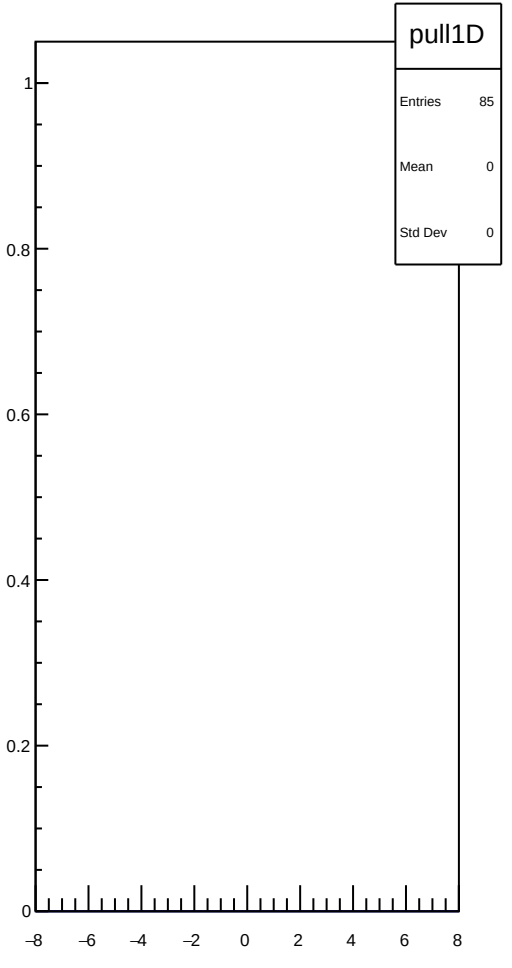

yield_bpm16X_rms vs run
χ² / ndf 1.575e+05 / 84
p0 0.009123 ± 7.475e−06
0.025
0.02
0.015
0.01
0.005

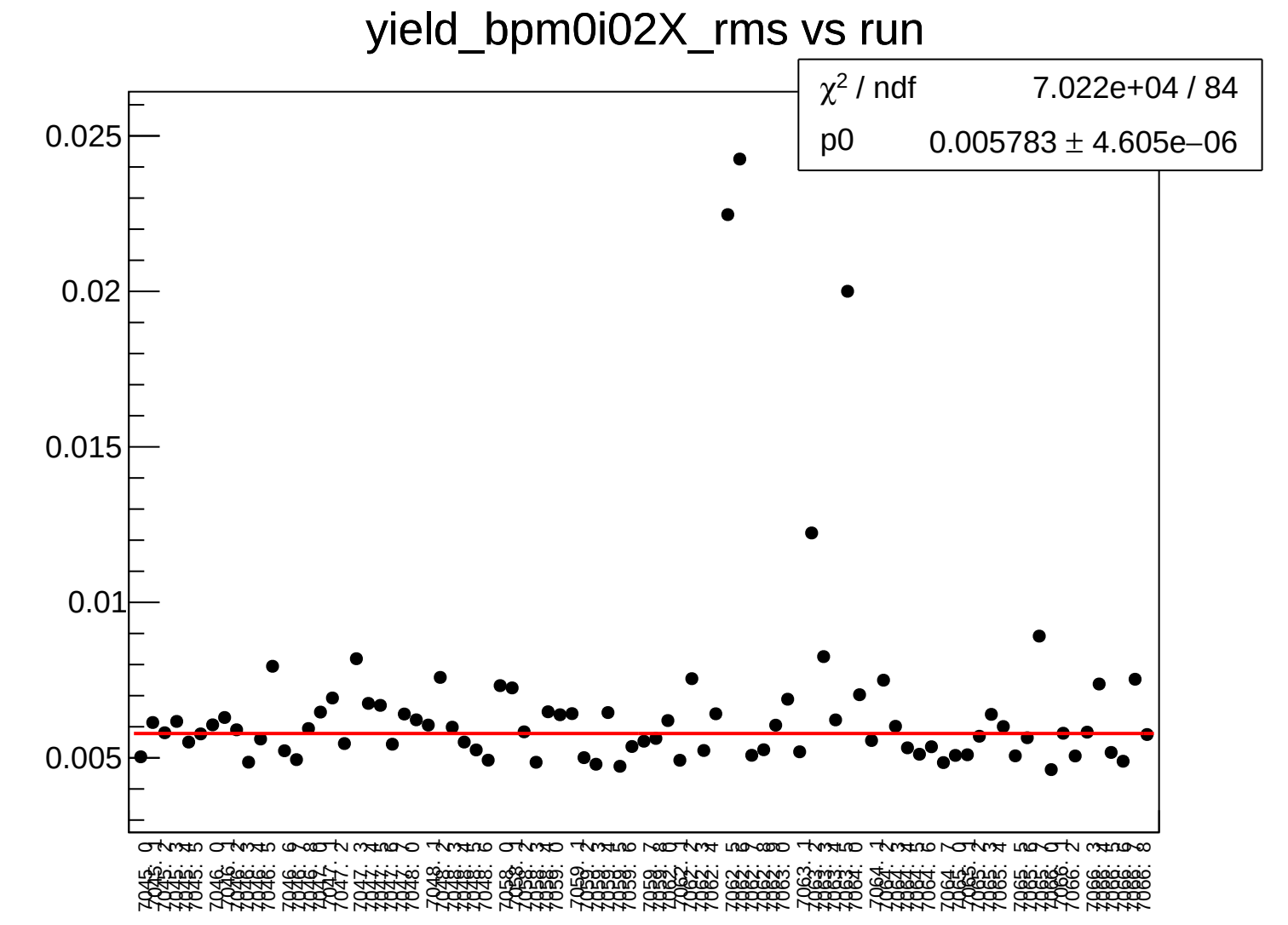

yield_bpm16Y_mean vs run
χ² / ndf 2.948e+04 / 84
p0 −0.2829 ± 6.02e−06
−0.279
−0.28
−0.281
−0.282
−0.283
−0.284
−0.285
−0.286
−0.287
pull
Entries 85
Mean 355.5
Std Dev 0
40
20
0
−20
−40

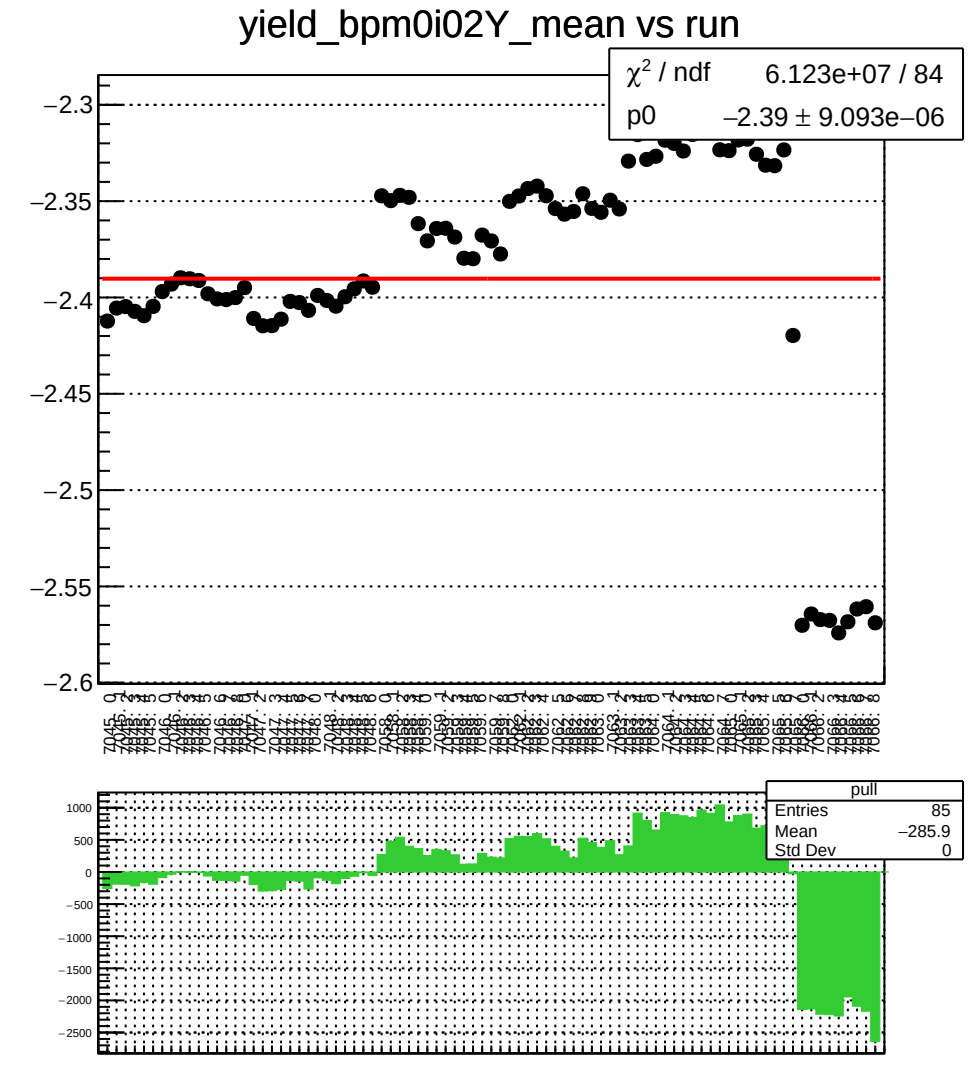

pull1D
Entries 85
Mean −1.257
Std Dev 3.663
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

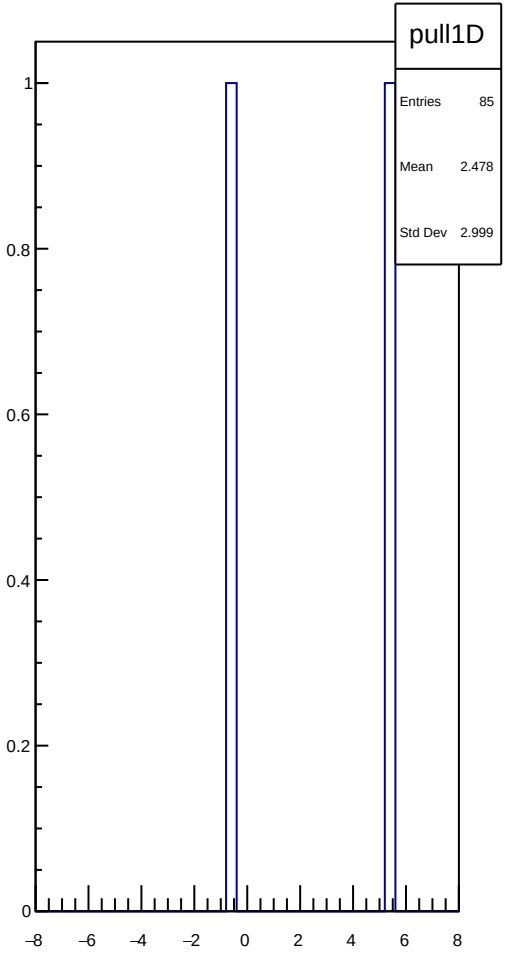

yield_bpm16Y_rms vs run
χ² / ndf 5.117e+04 / 84
p0 0.005377 ± 4.256e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

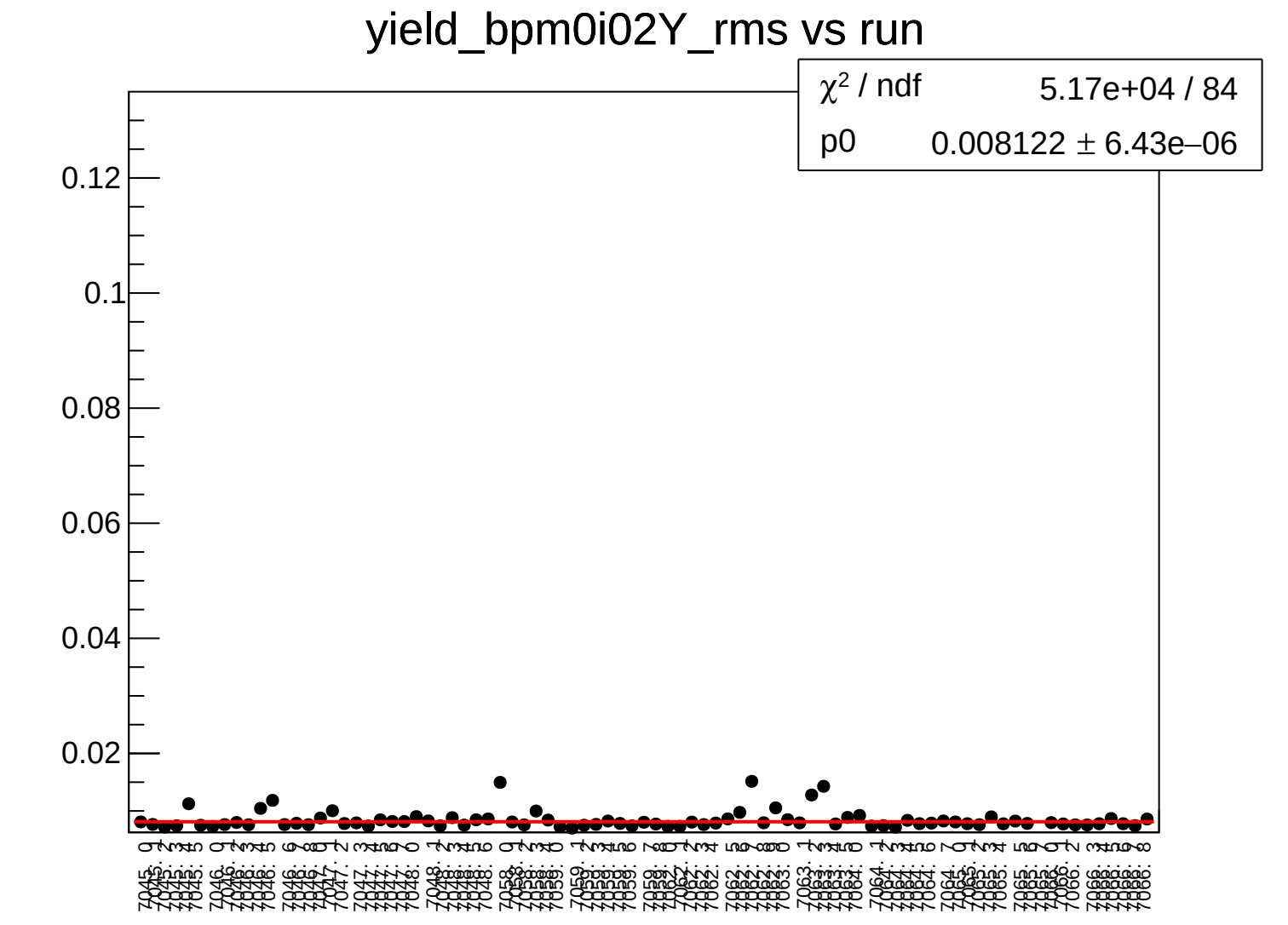

yield_bpm0i02X_mean vs run
χ² / ndf 2.145e+07 / 84
p0 −0.05418 ± 6.513e−06
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 85
Mean −876.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

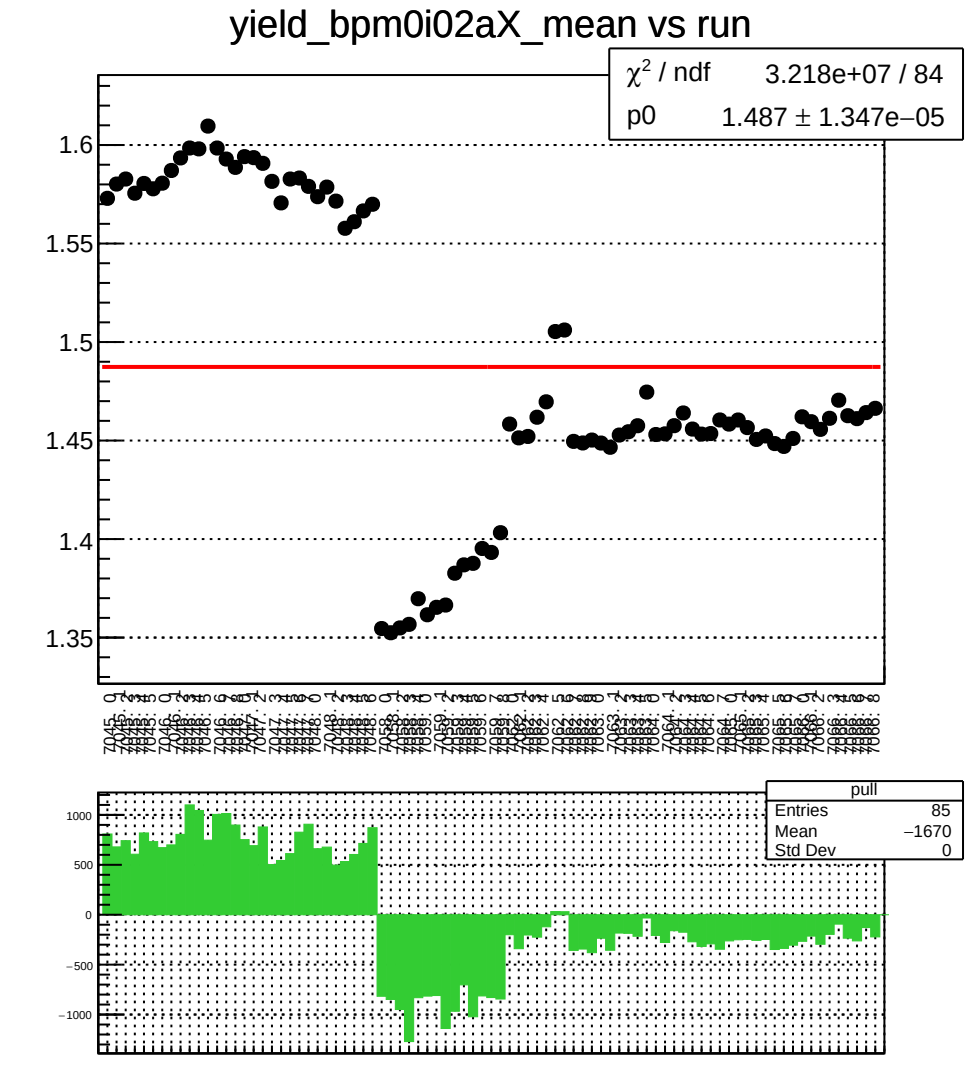

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

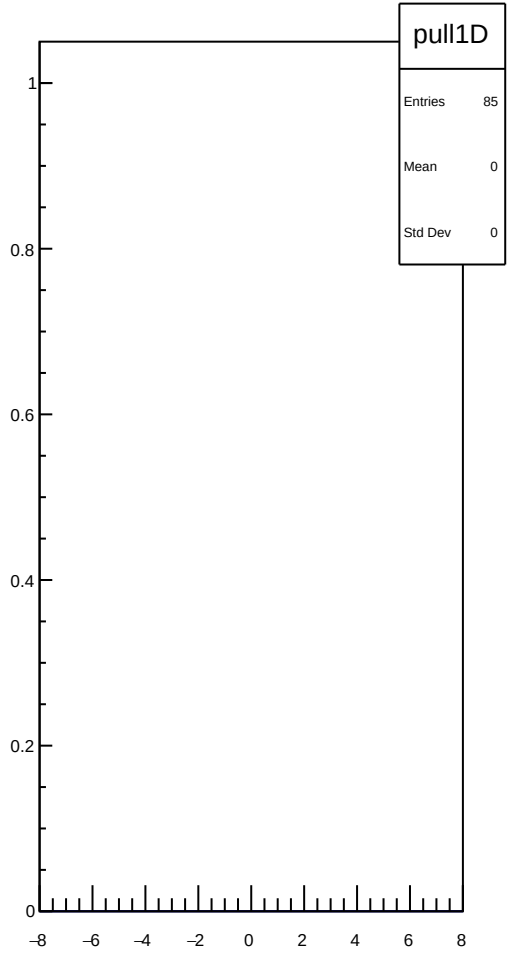

yield_bpm0i02X_rms vs run
χ^2 / ndf 7.022e+04 / 84
p0 0.005783 ± 4.605e−06
0.025
0.02
0.015
0.01
0.005

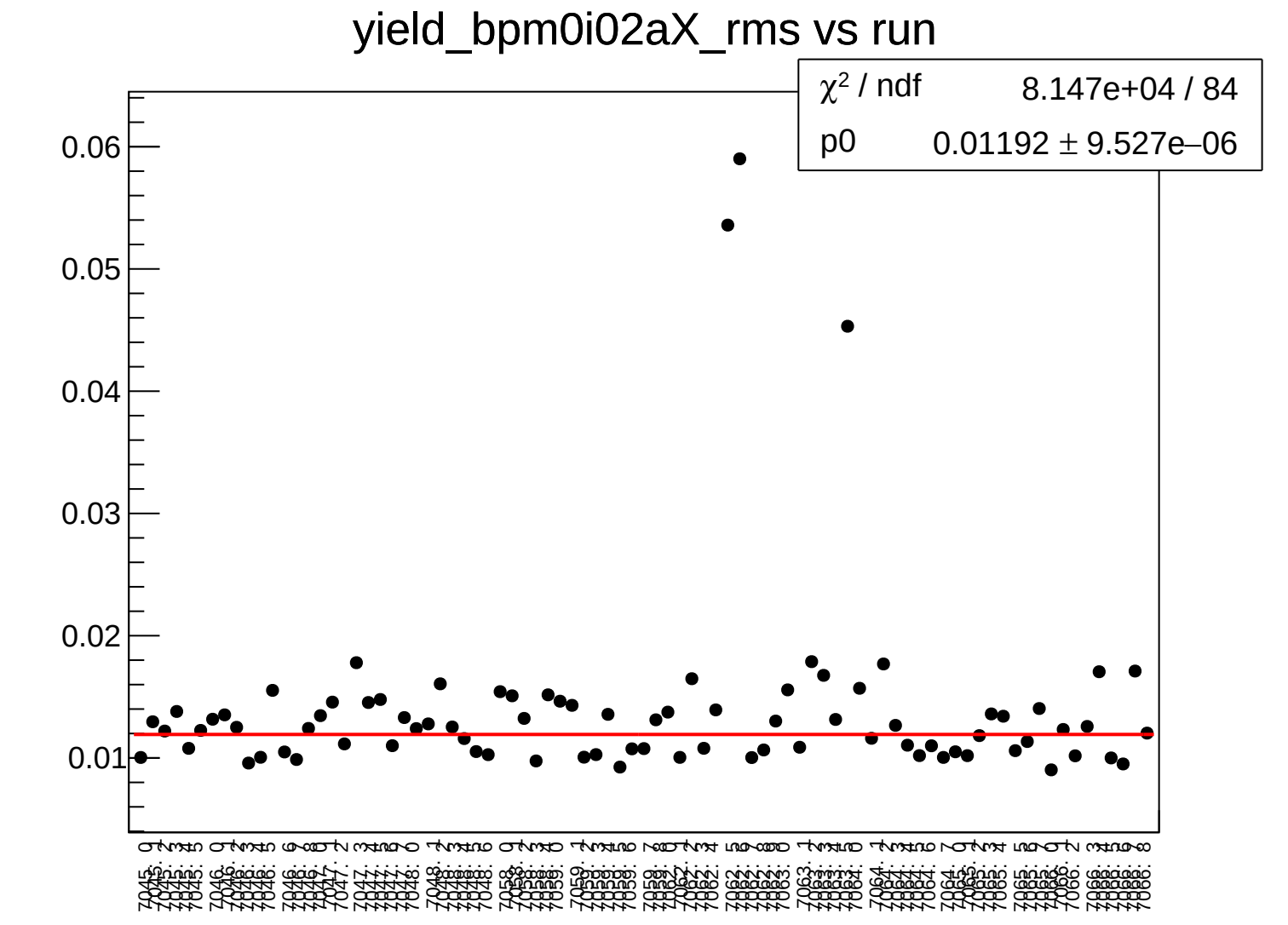

yield_bpm0i02Y_mean vs run
χ² / ndf 6.123e+07 / 84
p0 −2.39 ± 9.093e−06
−2.3
−2.35
−2.4
−2.45
−2.5
−2.55
−2.6
pull
Entries 85
Mean −285.9
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

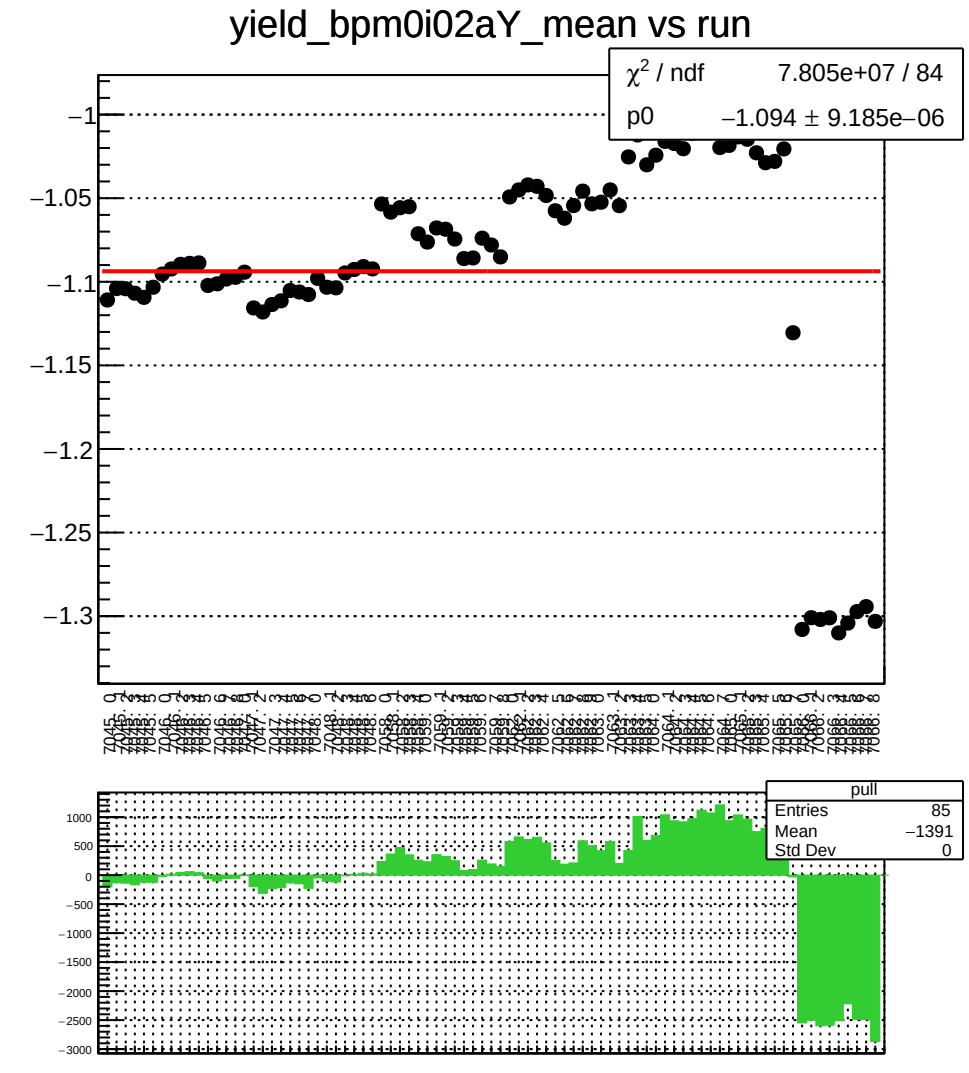

pull1D
Entries 85
Mean 2.478
Std Dev 2.999
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

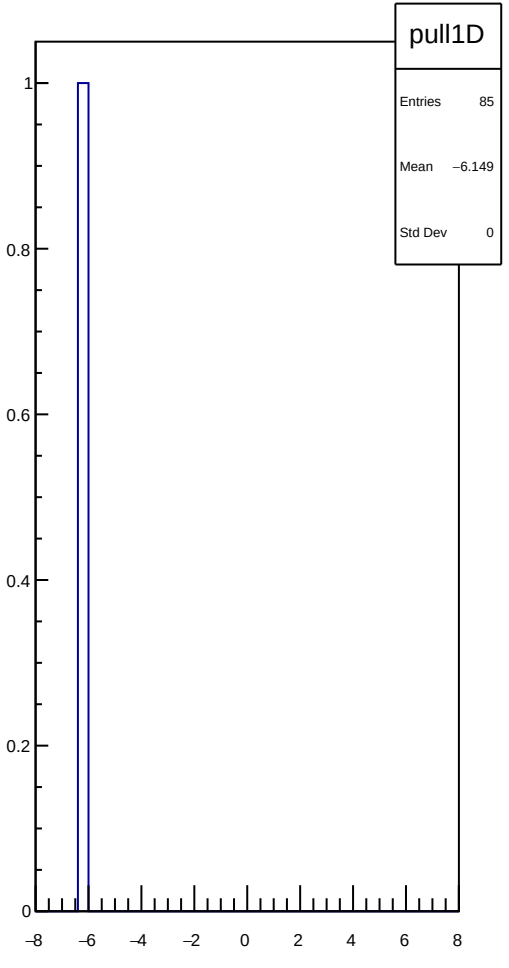

yield_bpm0i02Y_rms vs run
χ² / ndf 5.17e+04 / 84
p0 0.008122 ± 6.43e−06
0.12
0.1
0.08
0.06
0.04
0.02

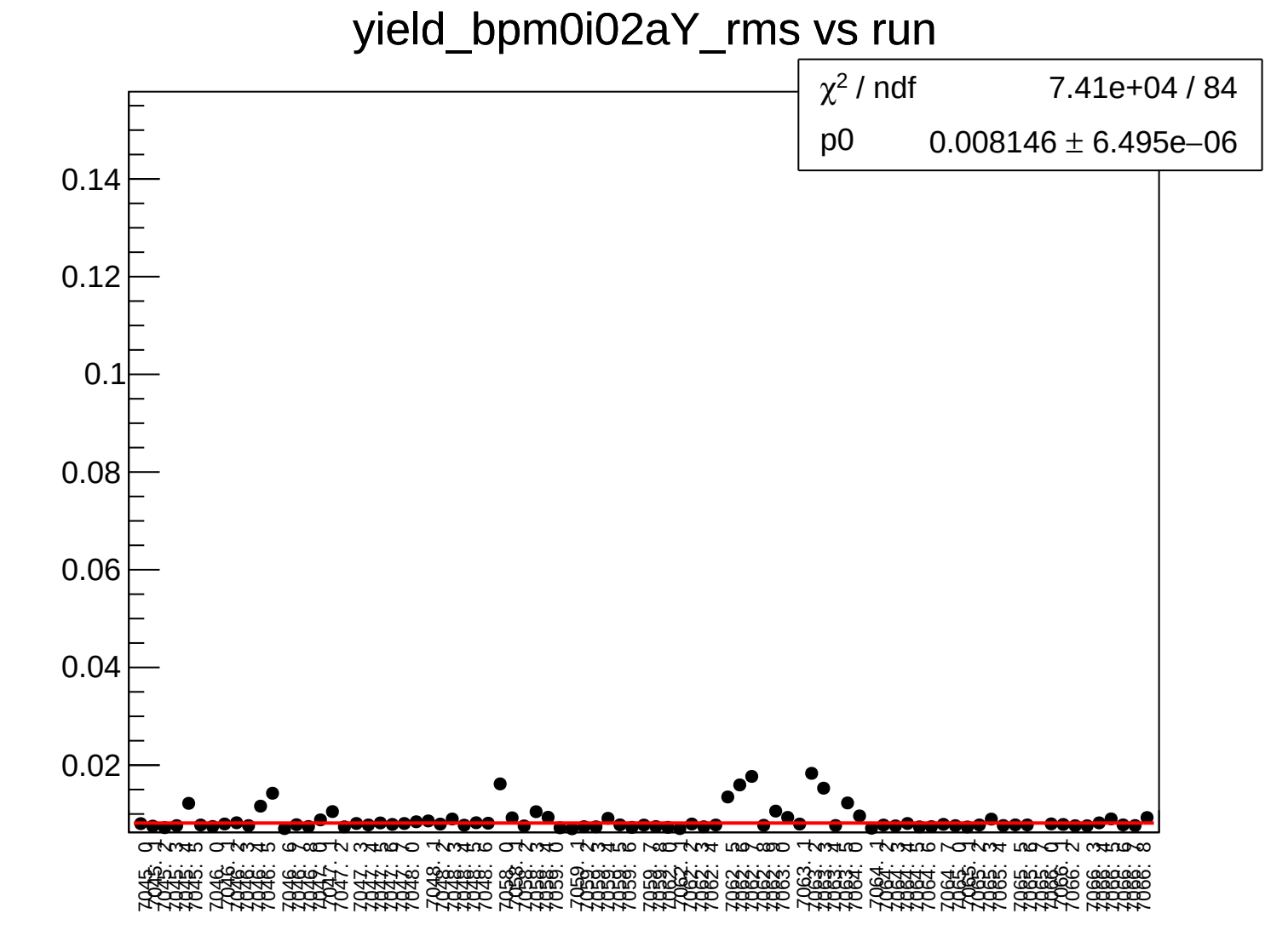

yield_bpm0i02aX_mean vs run
χ² / ndf 3.218e+07 / 84
p0 1.487 ± 1.347e−05
1.6
1.55
1.5
1.45
1.4
1.35
pull
Entries 85
Mean −1670
Std Dev 0
1000
500
0
−500
−1000

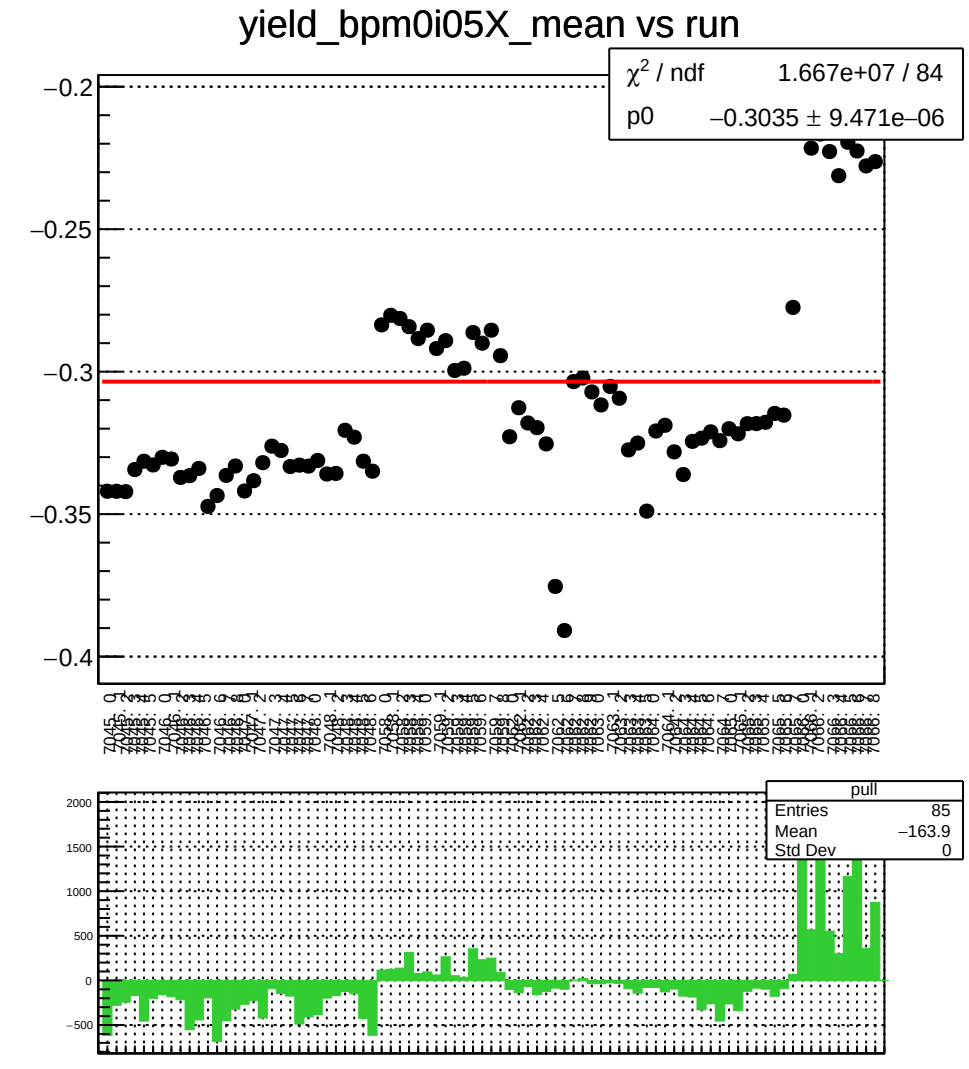

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

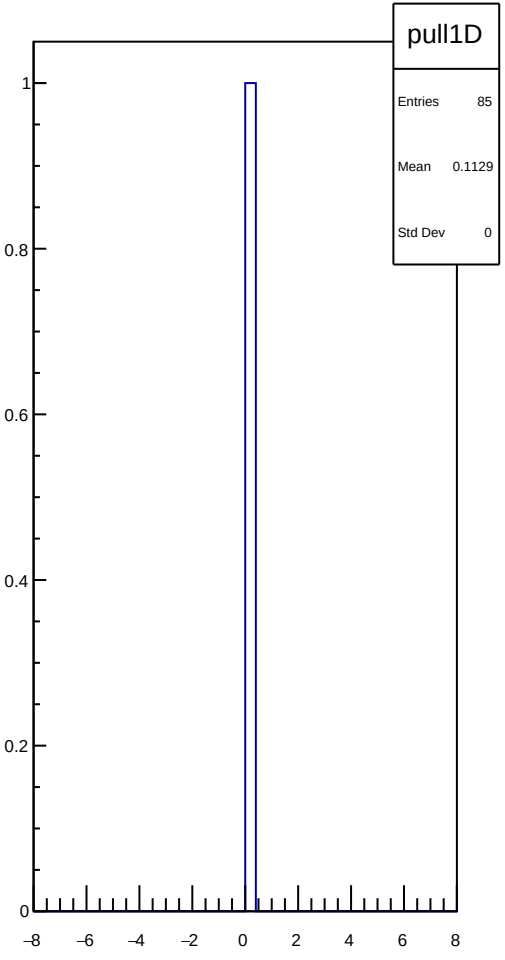

yield_bpm0i02aX_rms vs run
χ² / ndf 8.147e+04 / 84
p0 0.01192 ± 9.527e–06
0.06
0.05
0.04
0.03
0.02
0.01

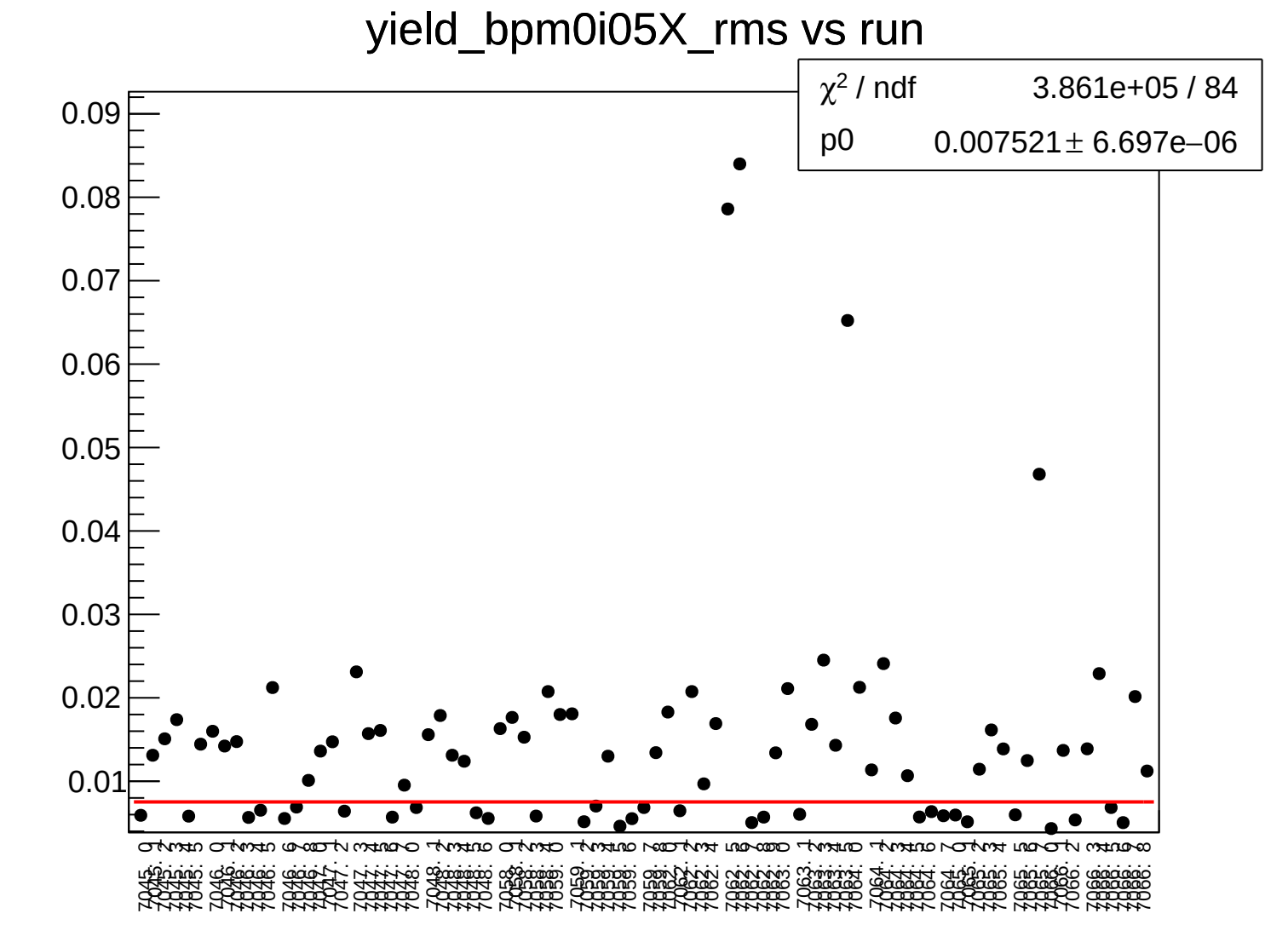

yield_bpm0i02aY_mean vs run
χ² / ndf 7.805e+07 / 84
p0 −1.094 ± 9.185e−06
−1
−1.05
−1.1
−1.15
−1.2
−1.25
−1.3
pull
Entries 85
Mean −1391
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

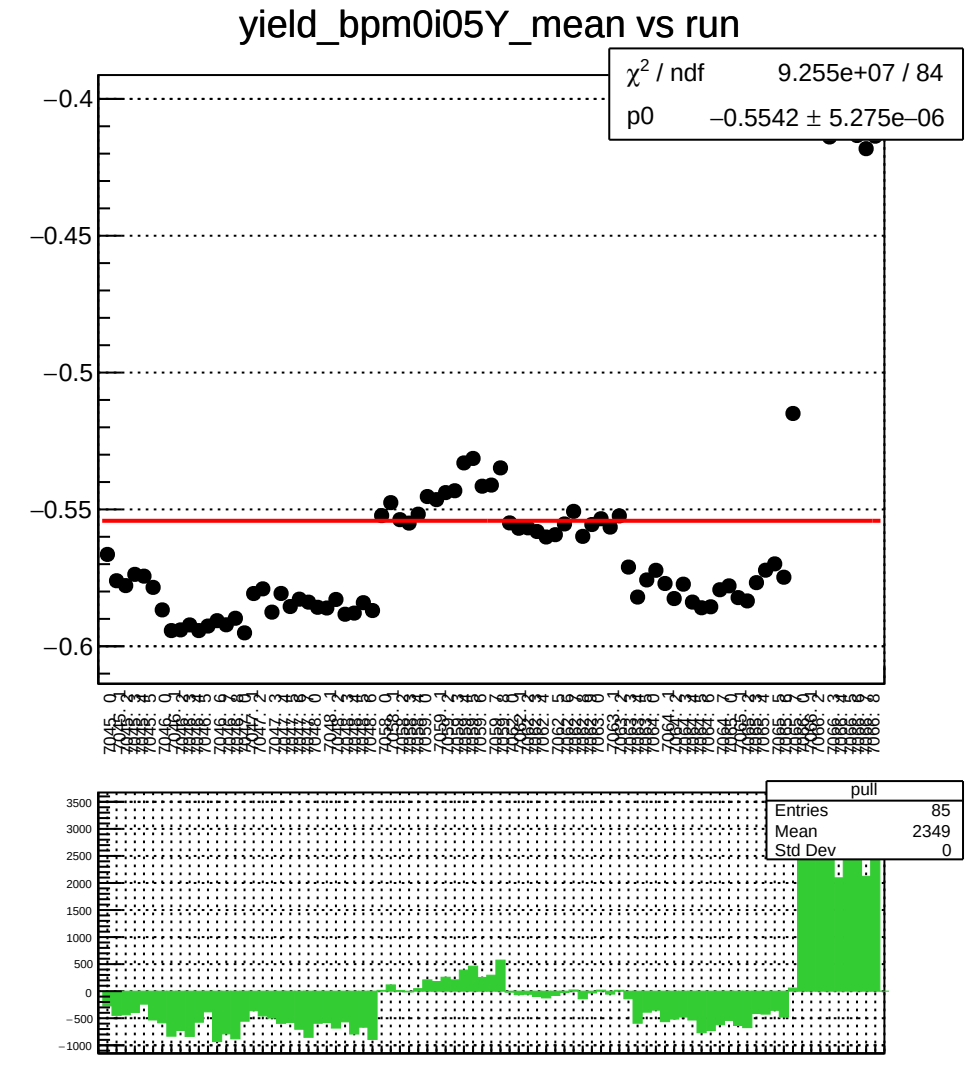

pull1D
Entries 85
Mean −6.149
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

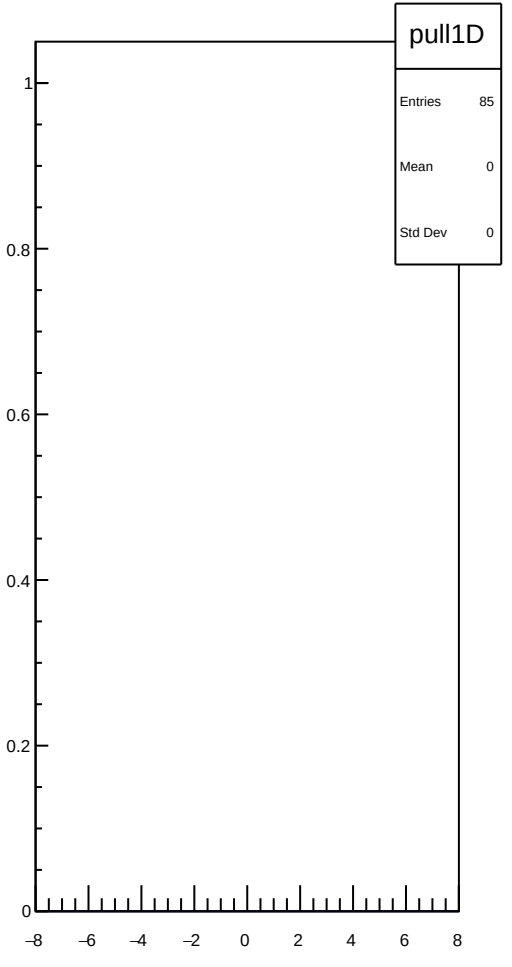

yield_bpm0i02aY_rms vs run
χ^2 / ndf 7.41e+04 / 84
p0 0.008146 ± 6.495e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

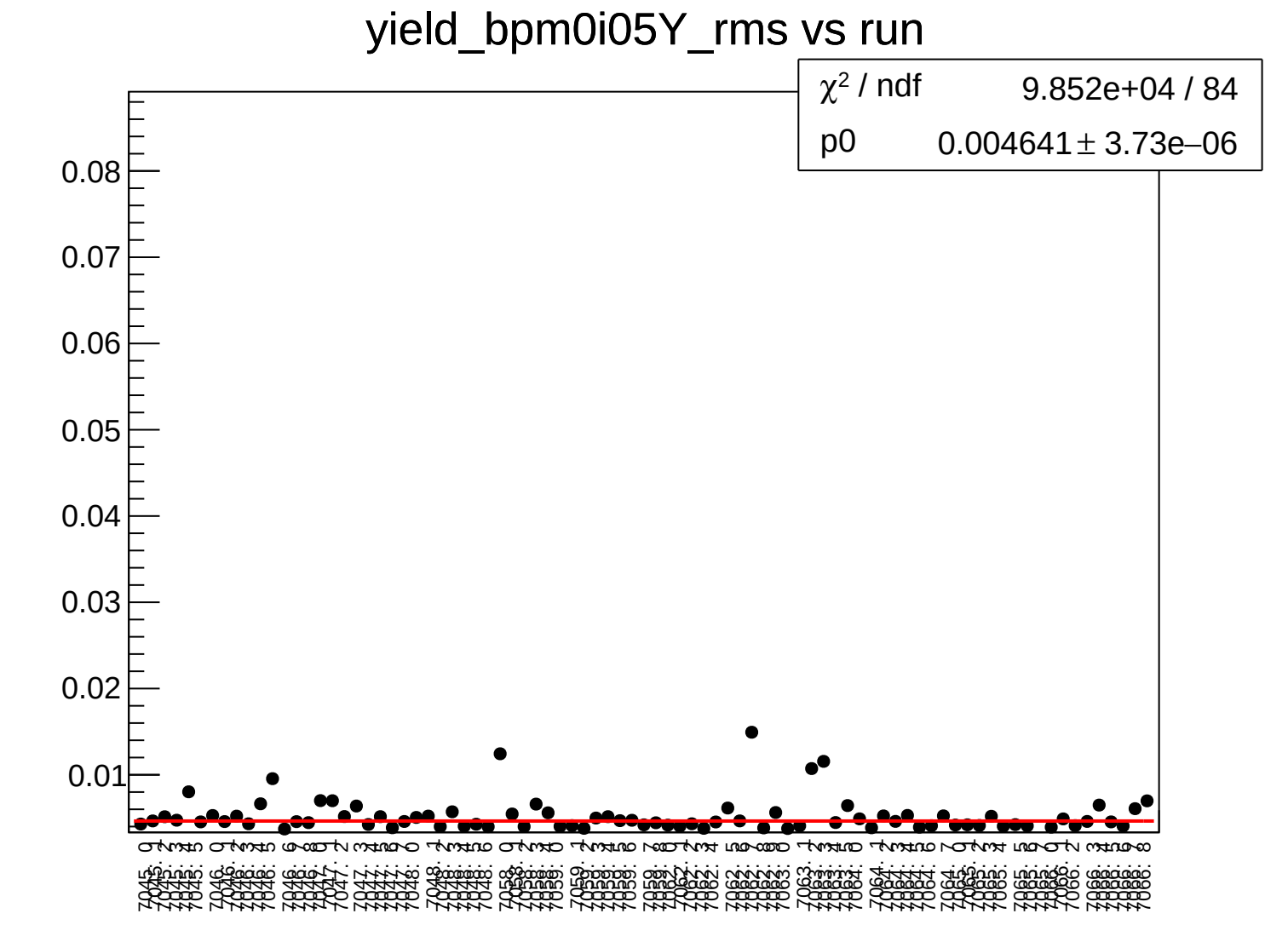

yield_bpm0i05X_mean vs run
χ² / ndf 1.667e+07 / 84
p0 −0.3035 ± 9.471e−06
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 85
Mean −163.9
Std Dev 0
2000
1500
1000
500
0
−500

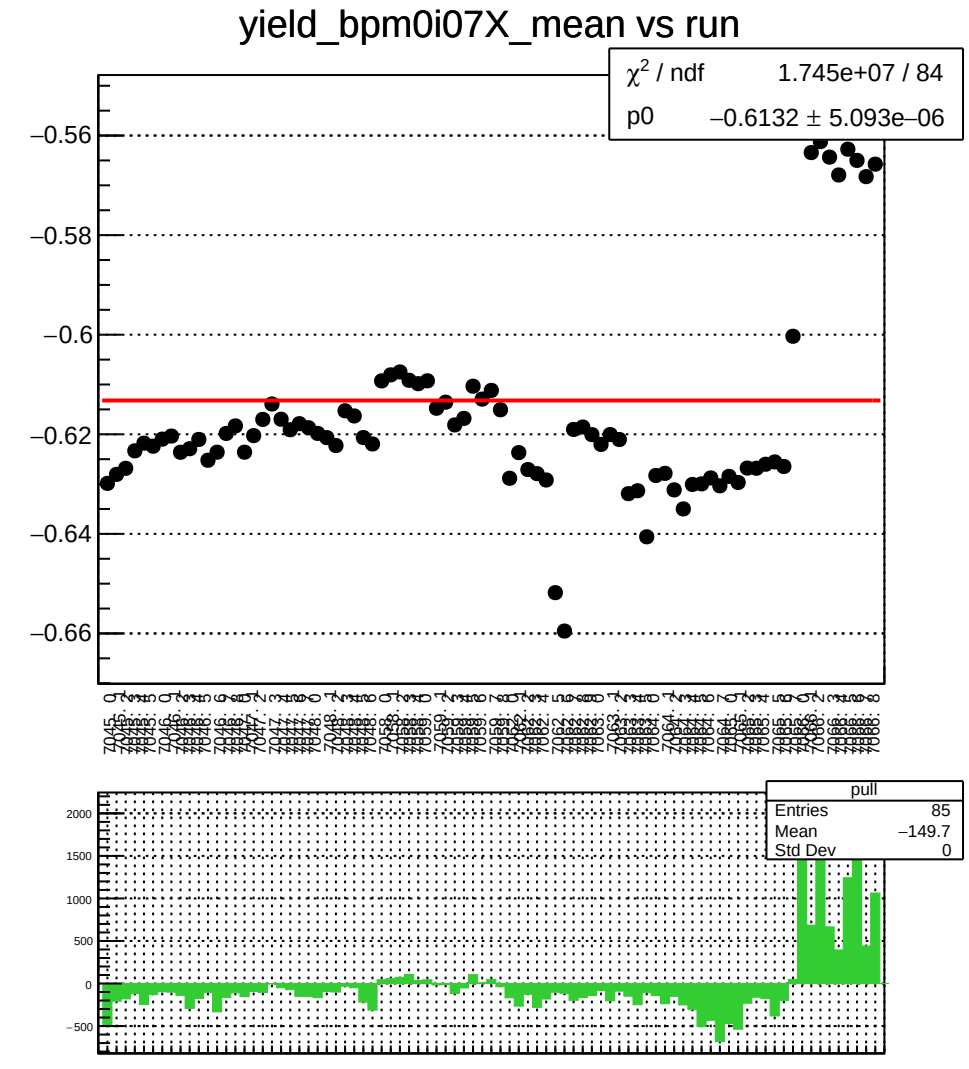

pull1D
Entries 85
Mean 0.1129
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

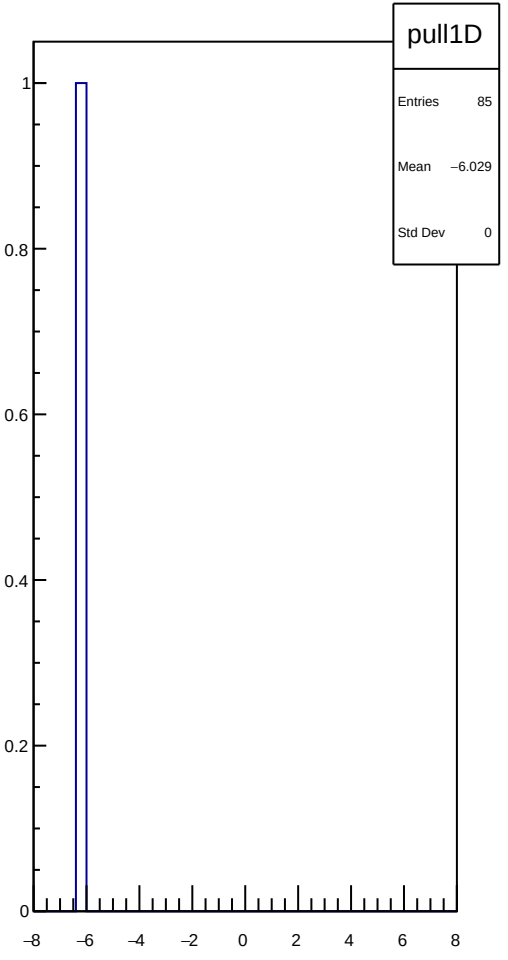

yield_bpm0i05X_rms vs run
χ² / ndf 3.861e+05 / 84
p0 0.007521 ± 6.697e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

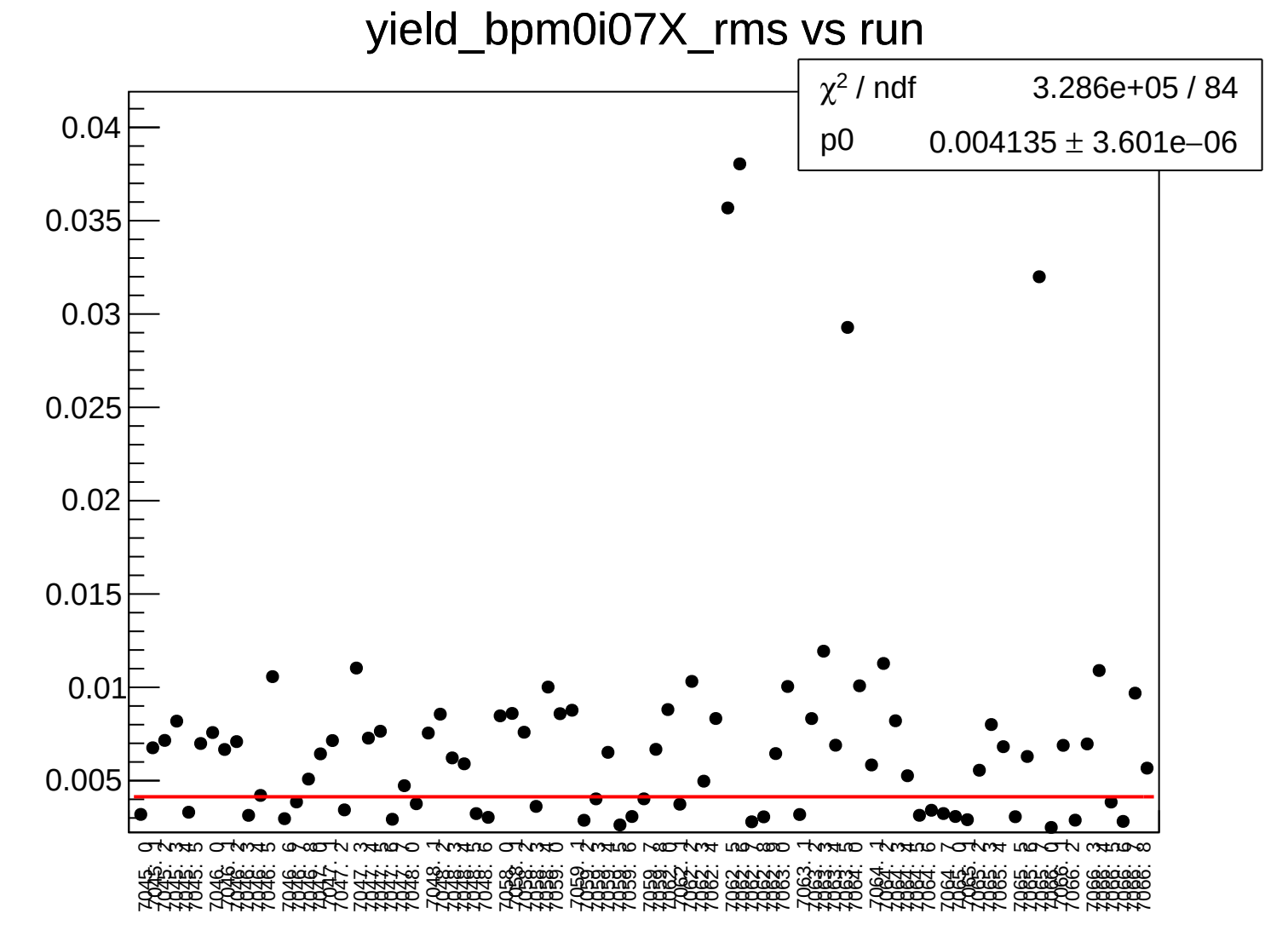

yield_bpm0i05Y_mean vs run
χ² / ndf 9.255e+07 / 84
p0 −0.5542 ± 5.275e−06
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 85
Mean 2349
Std Dev 0
3500
3000
2500
2000
1500
1000
500
0
−500
−1000

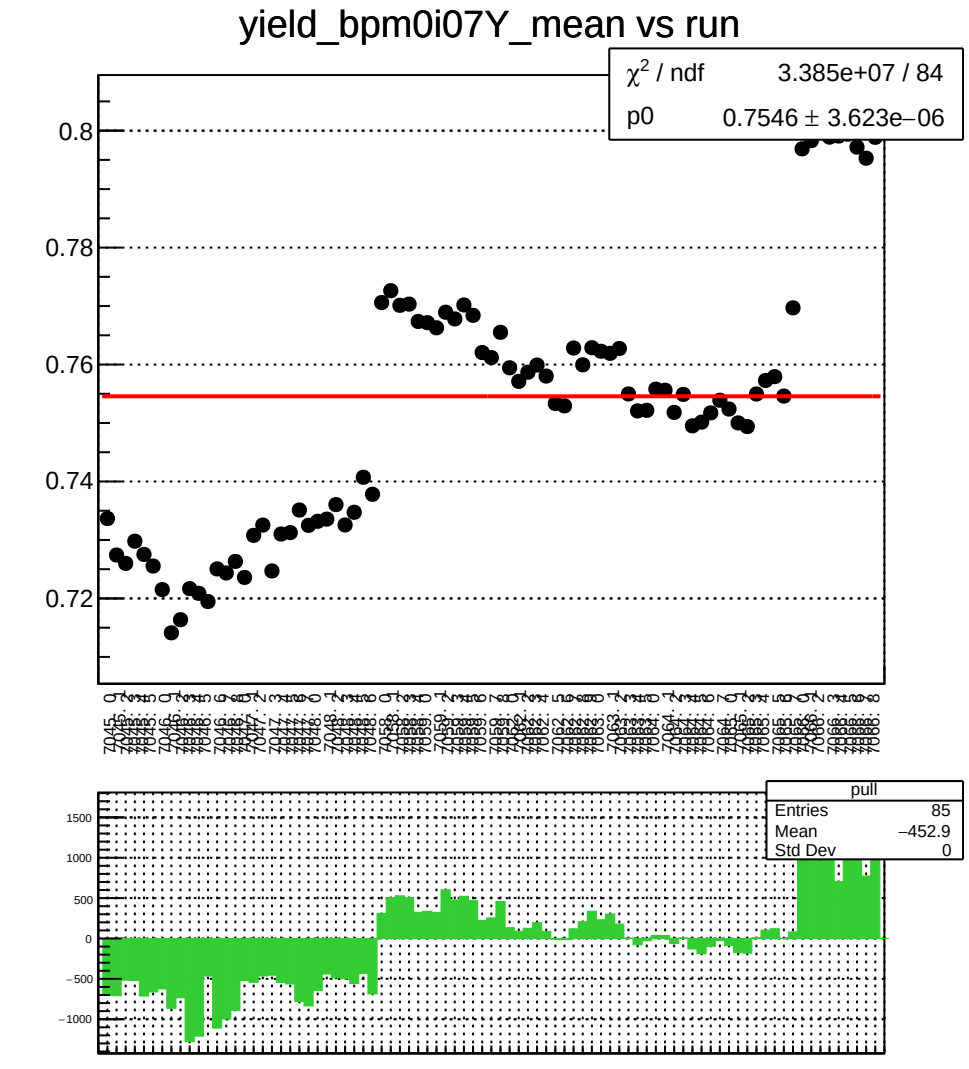

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

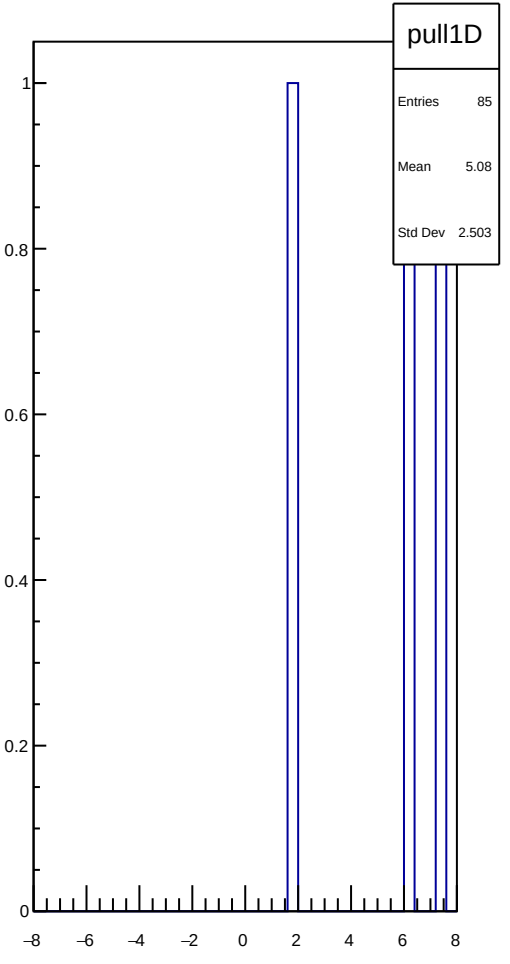

yield_bpm0i05Y_rms vs run
χ² / ndf 9.852e+04 / 84
p0 0.004641 ± 3.73e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

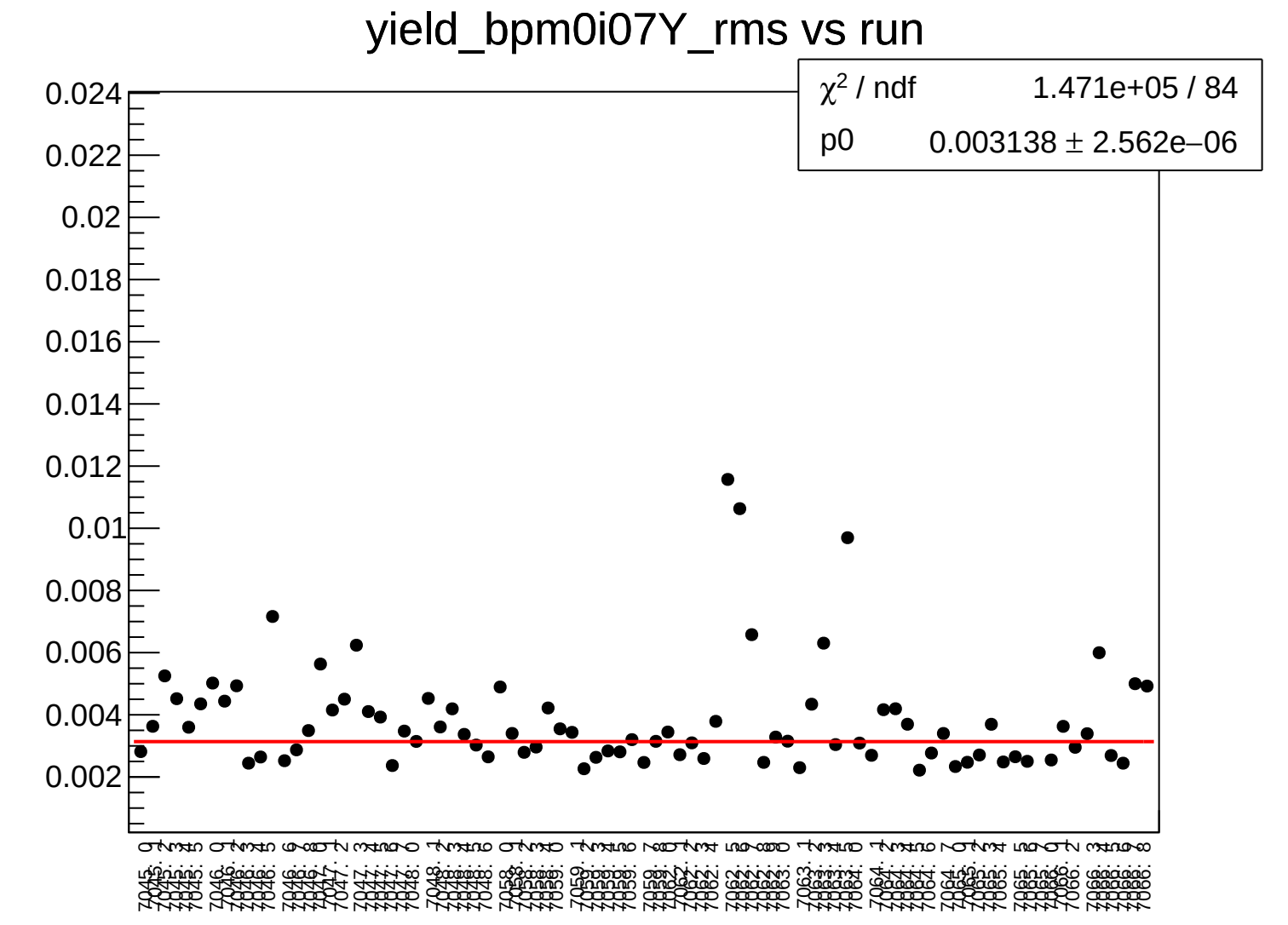

yield_bpm0i07X_mean vs run
χ² / ndf 1.745e+07 / 84
p0 −0.6132 ± 5.093e−06
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
pull
Entries 85
Mean −149.7
Std Dev 0
2000
1500
1000
500
0
−500

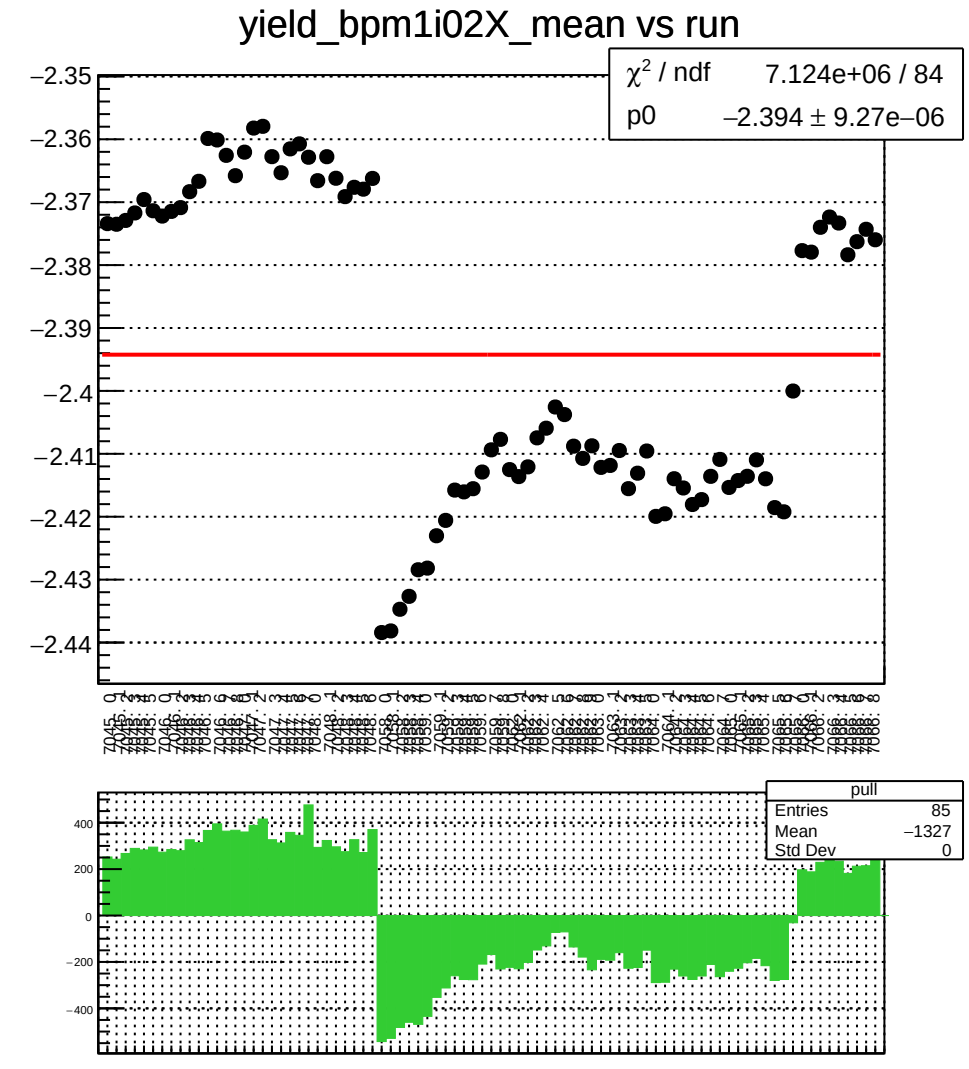

pull1D
Entries 85
Mean −6.029
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

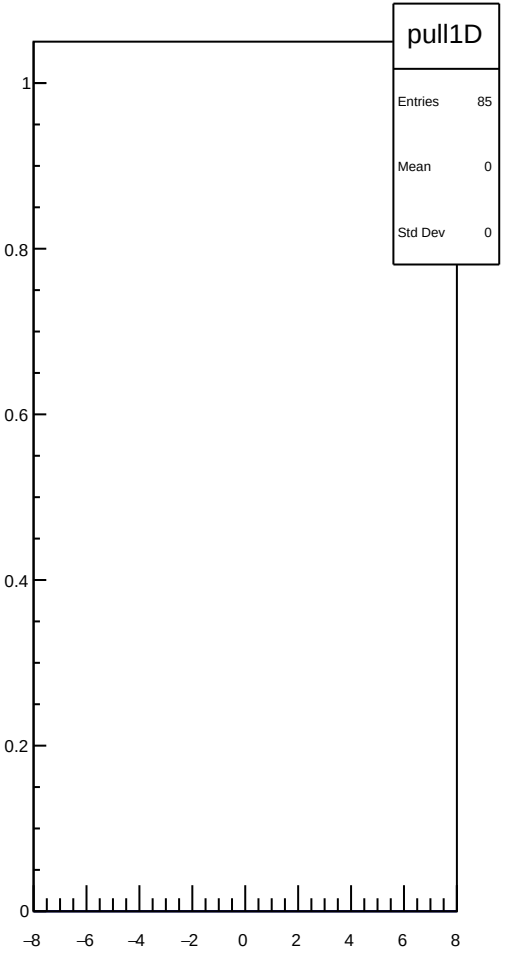

yield_bpm0i07X_rms vs run
χ² / ndf 3.286e+05 / 84
p0 0.004135 ± 3.601e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

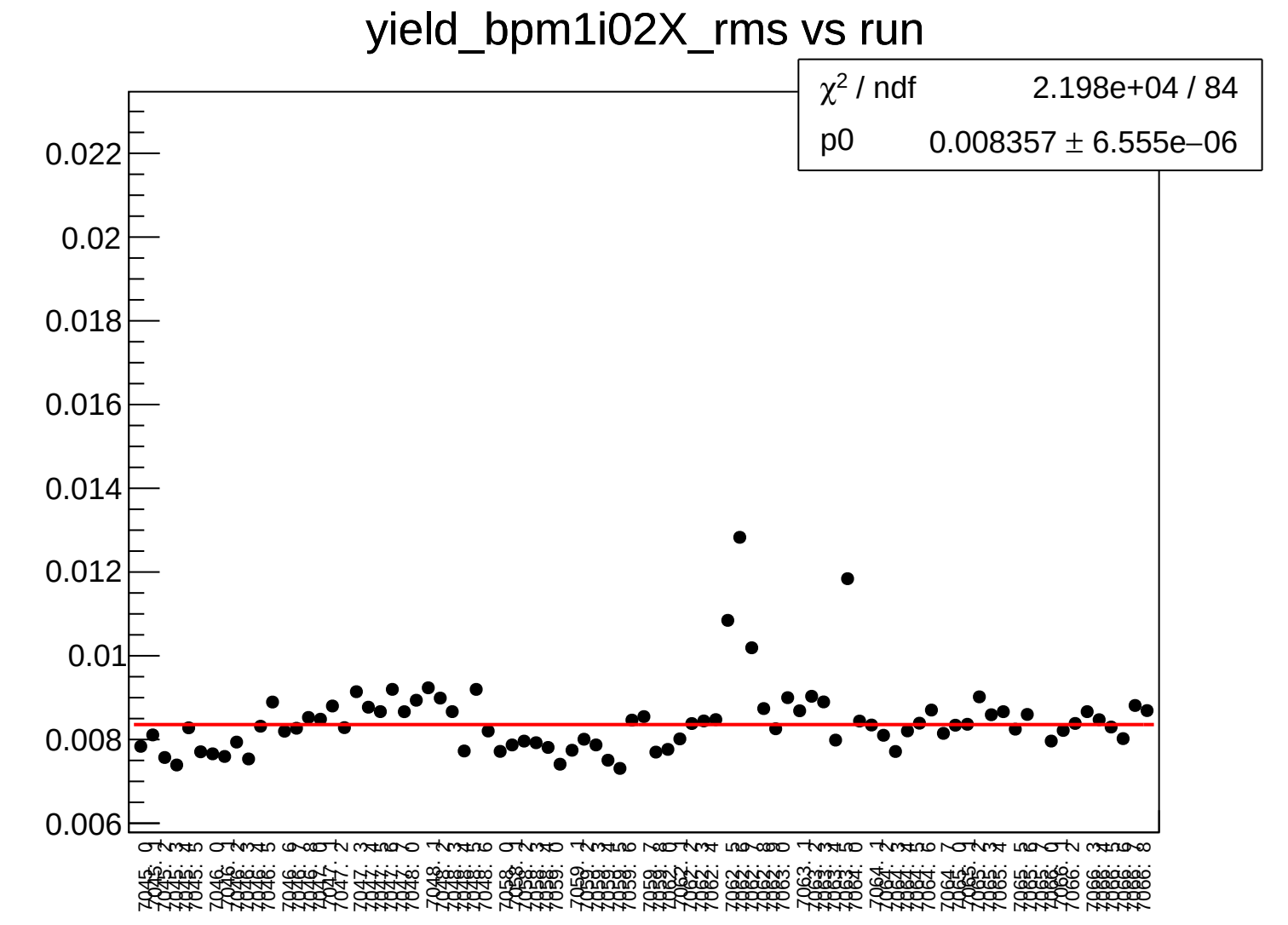

yield_bpm0i07Y_mean vs run
χ² / ndf 3.385e+07 / 84
p0 0.7546 ± 3.623e−06
0.8
0.78
0.76
0.74
0.72
pull
Entries 85
Mean −452.9
Std Dev 0
1500
1000
500
0
−500
−1000

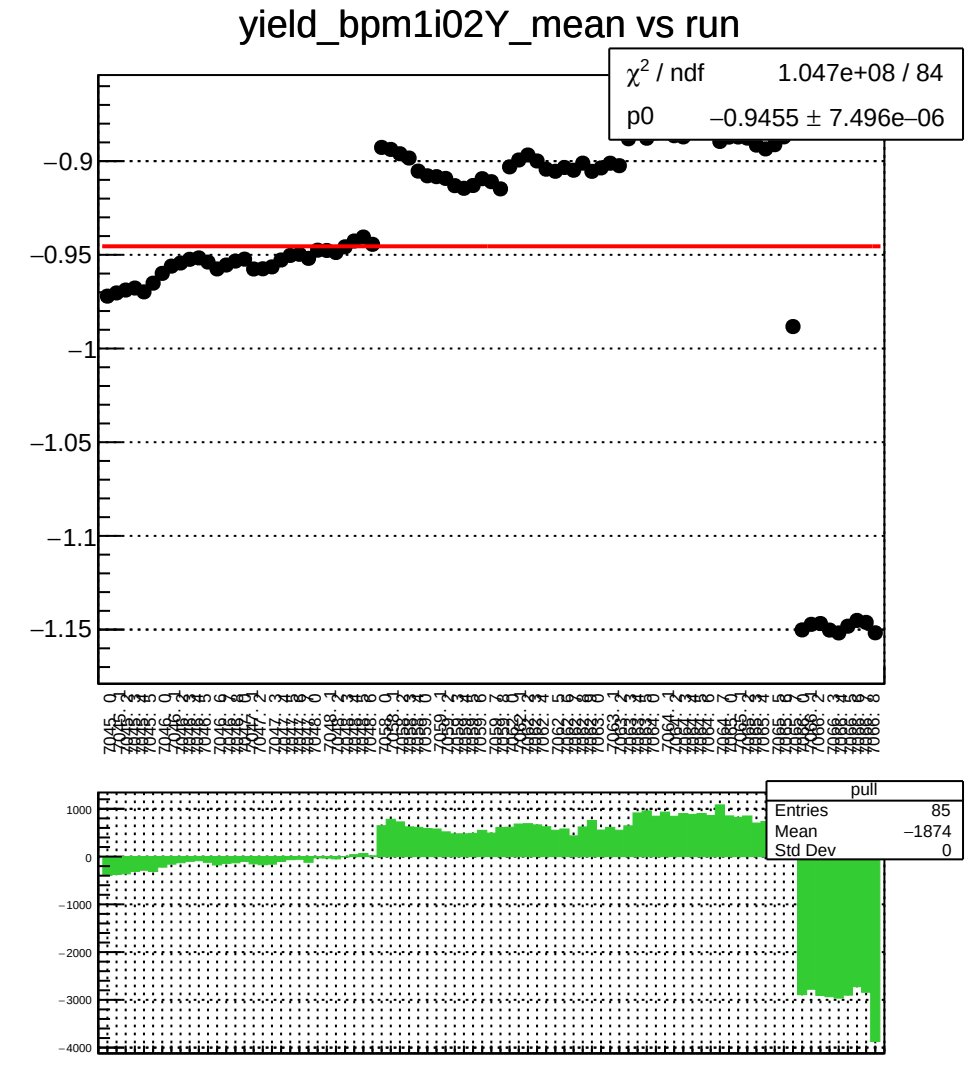

pull1D
Entries 85
Mean 5.08
Std Dev 2.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

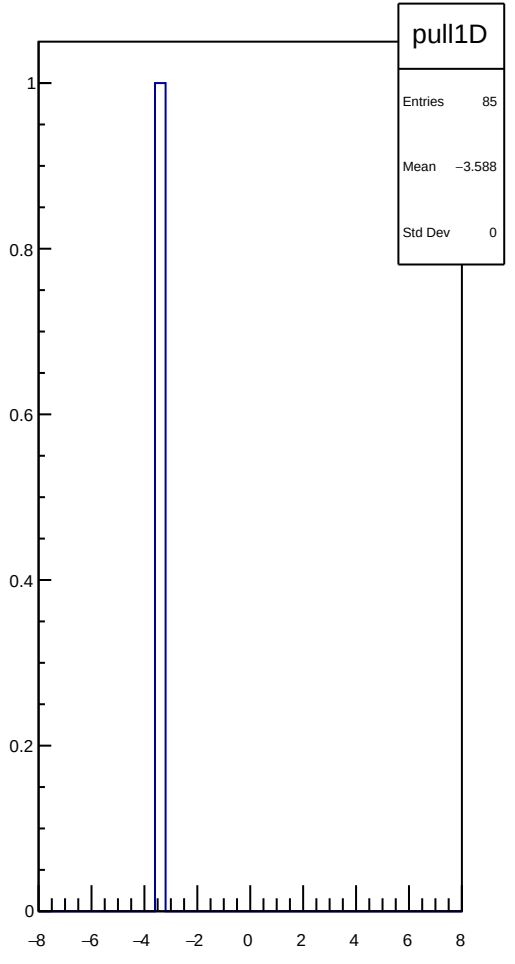

yield_bpm0i07Y_rms vs run
χ² / ndf 1.471e+05 / 84
p0 0.003138 ± 2.562e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

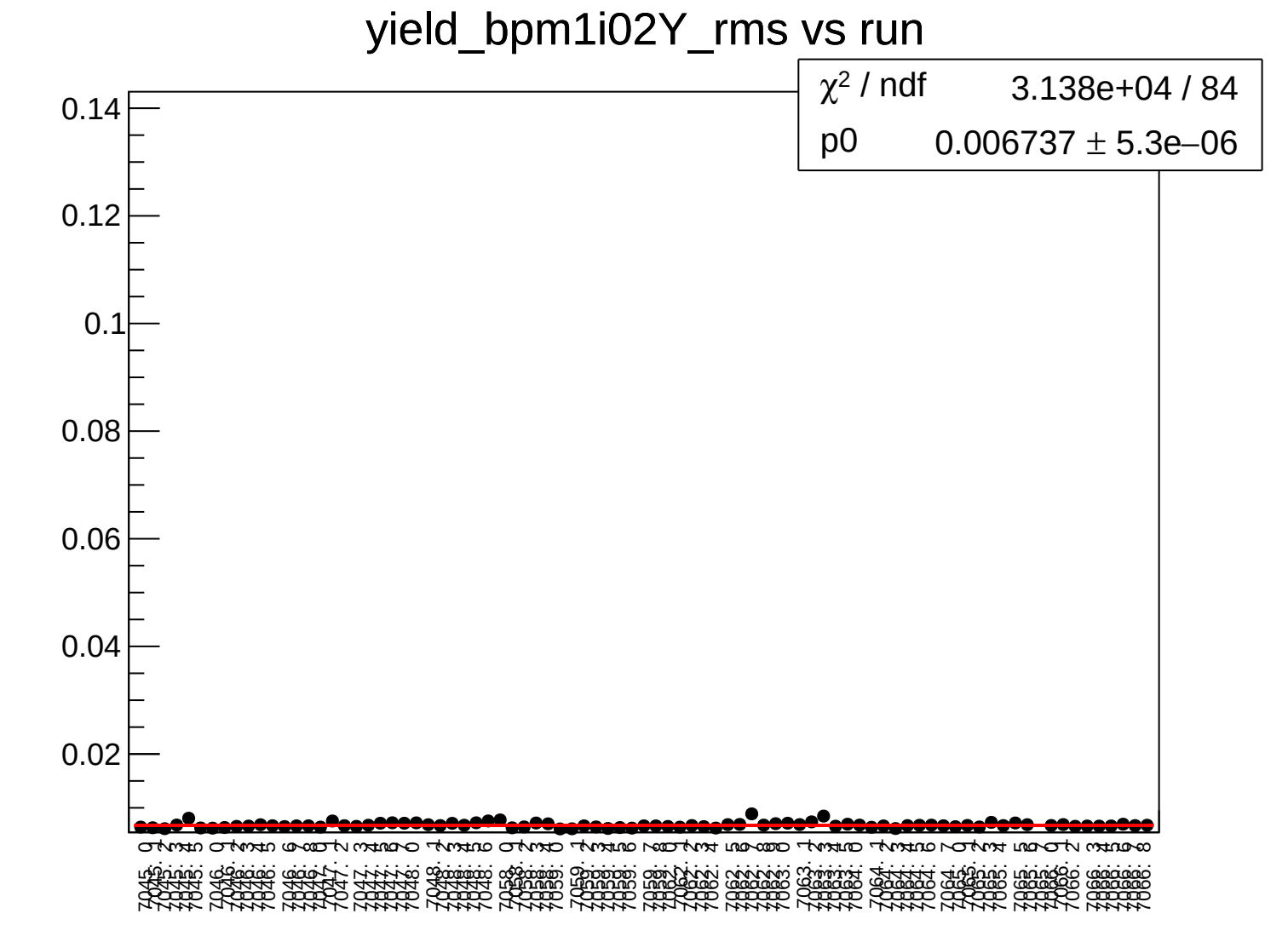

yield_bpm1i02X_mean vs run
χ² / ndf 7.124e+06 / 84
p0 –2.394 ± 9.27e–06
–2.35
–2.36
–2.37
–2.38
–2.39
–2.4
–2.41
–2.42
–2.43
–2.44
pull
Entries 85
Mean –1327
Std Dev 0
400
200
0
–200
–400

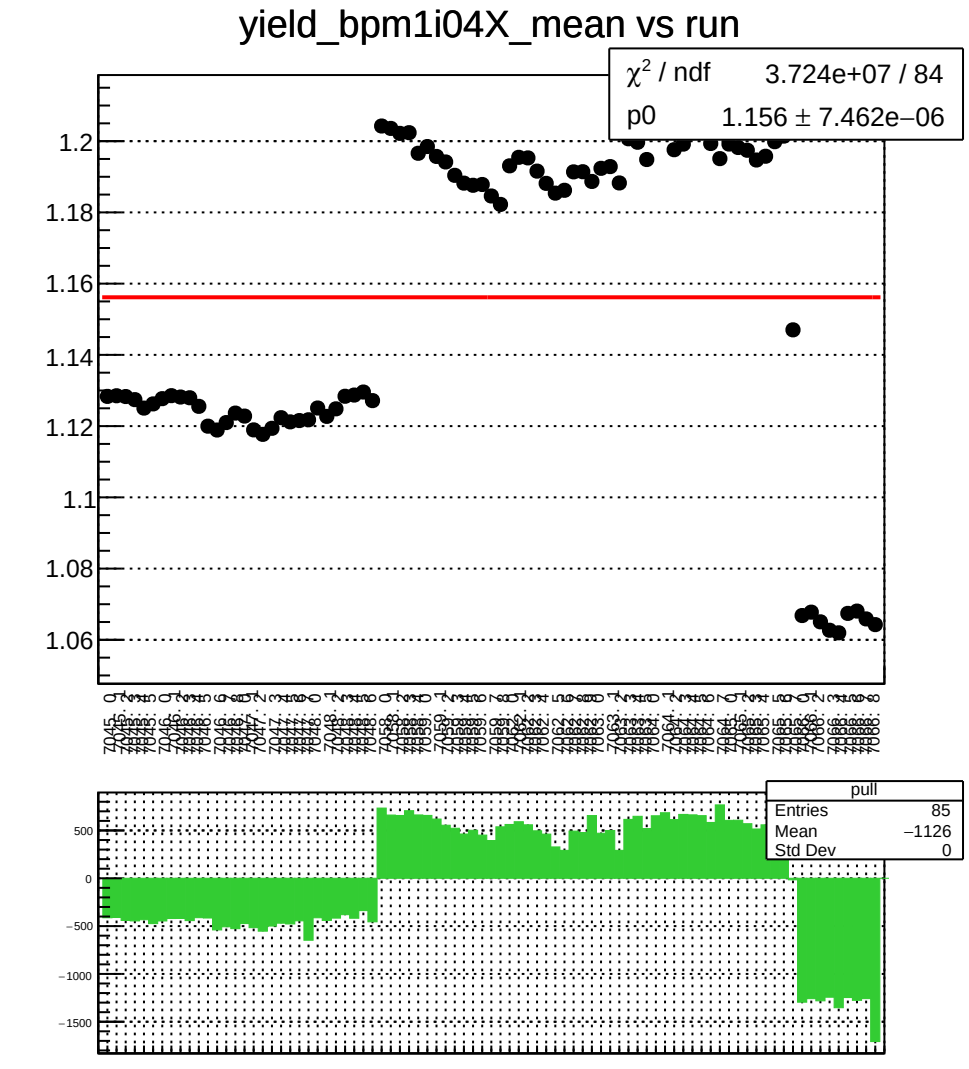

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

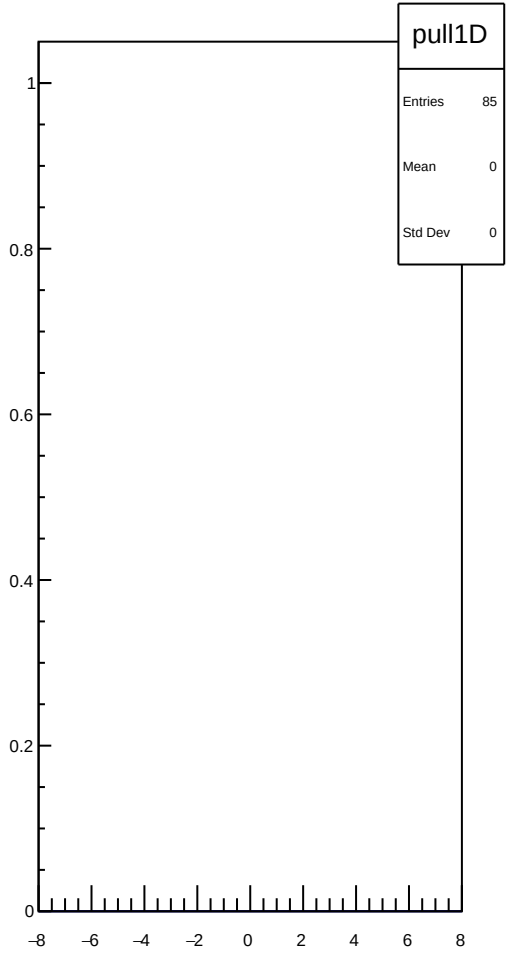

yield_bpm1i02X_rms vs run
χ² / ndf 2.198e+04 / 84
p0 0.008357 ± 6.555e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

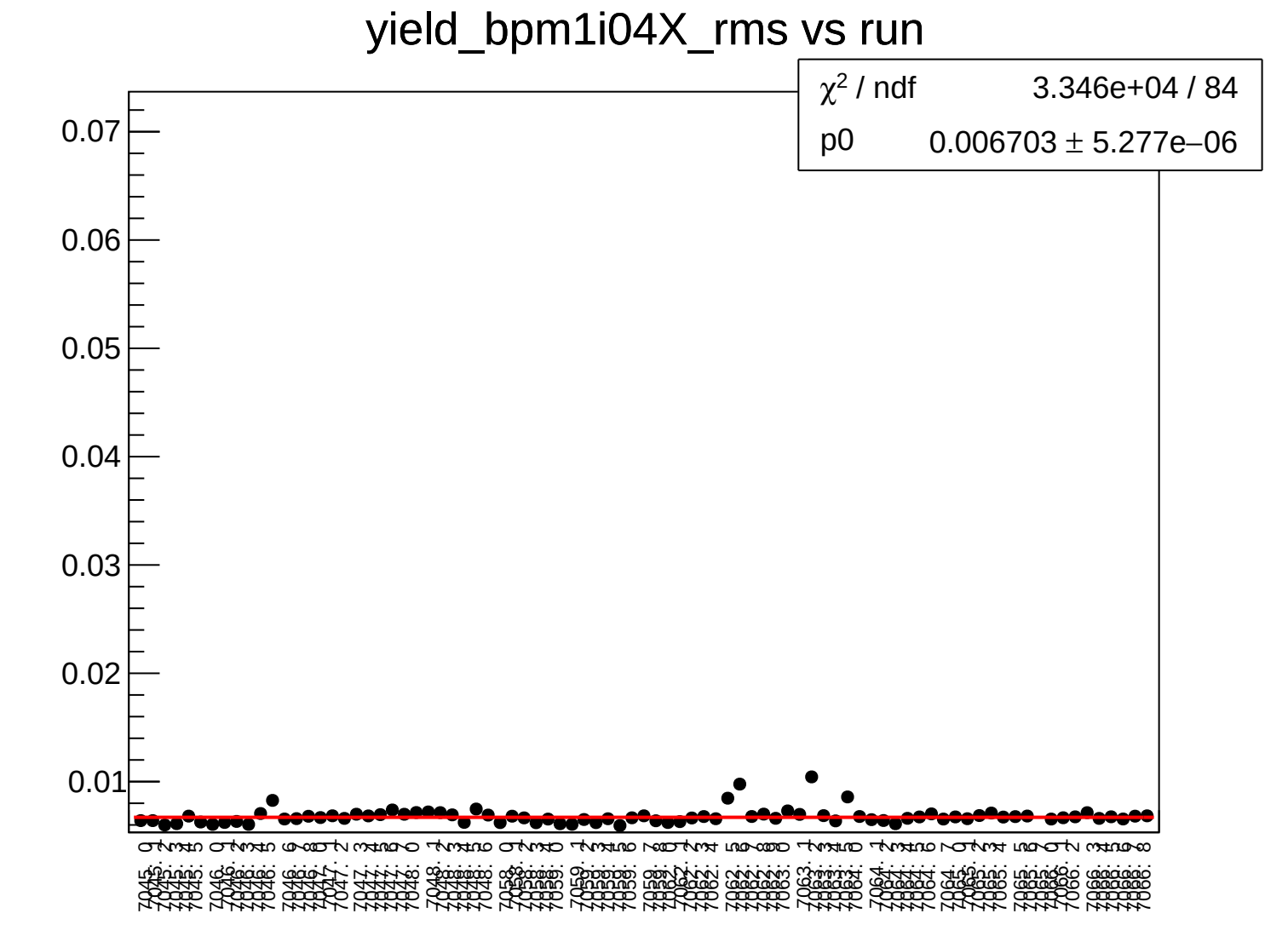

yield_bpm1i02Y_mean vs run
χ² / ndf 1.047e+08 / 84
p0 −0.9455 ± 7.496e−06
−0.9
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 85
Mean −1874
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

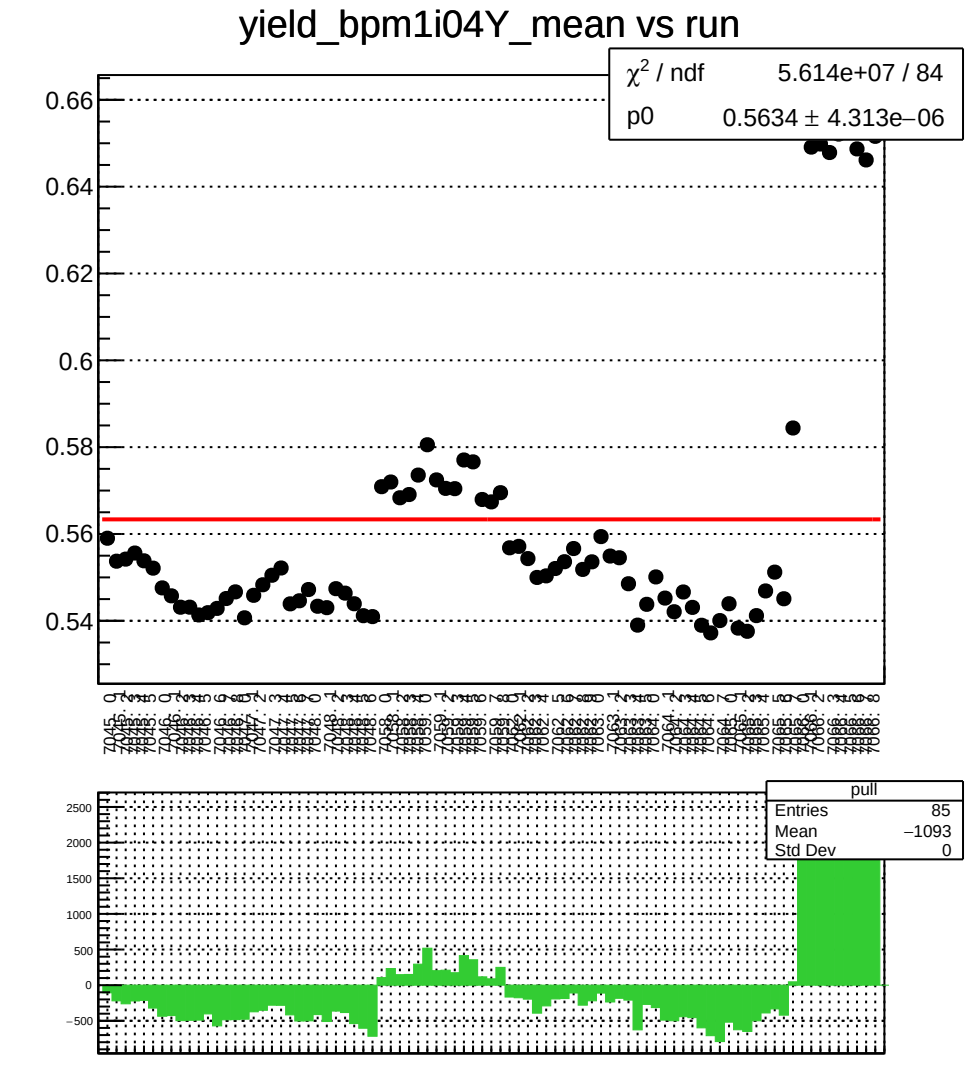

pull1D
Entries 85
Mean −3.588
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

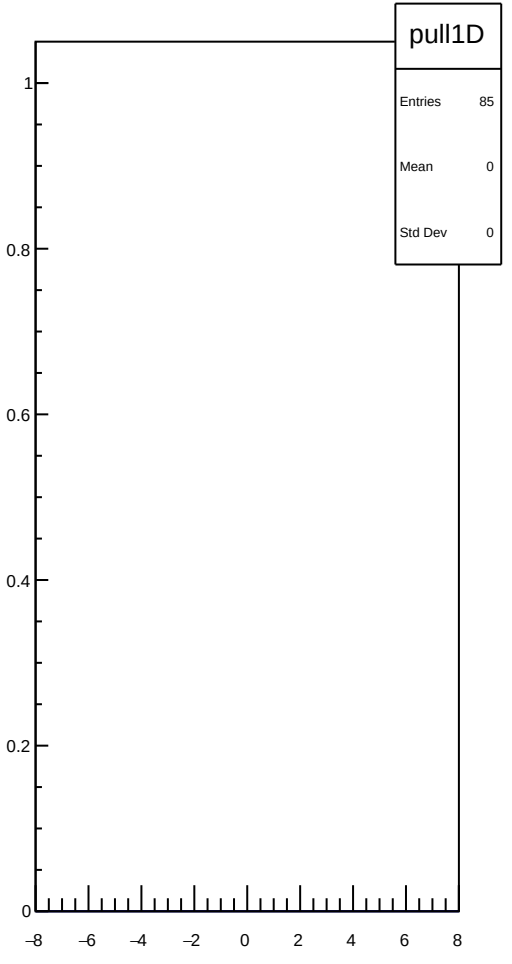

yield_bpm1i02Y_rms vs run
χ² / ndf 3.138e+04 / 84
p0 0.006737 ± 5.3e–06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

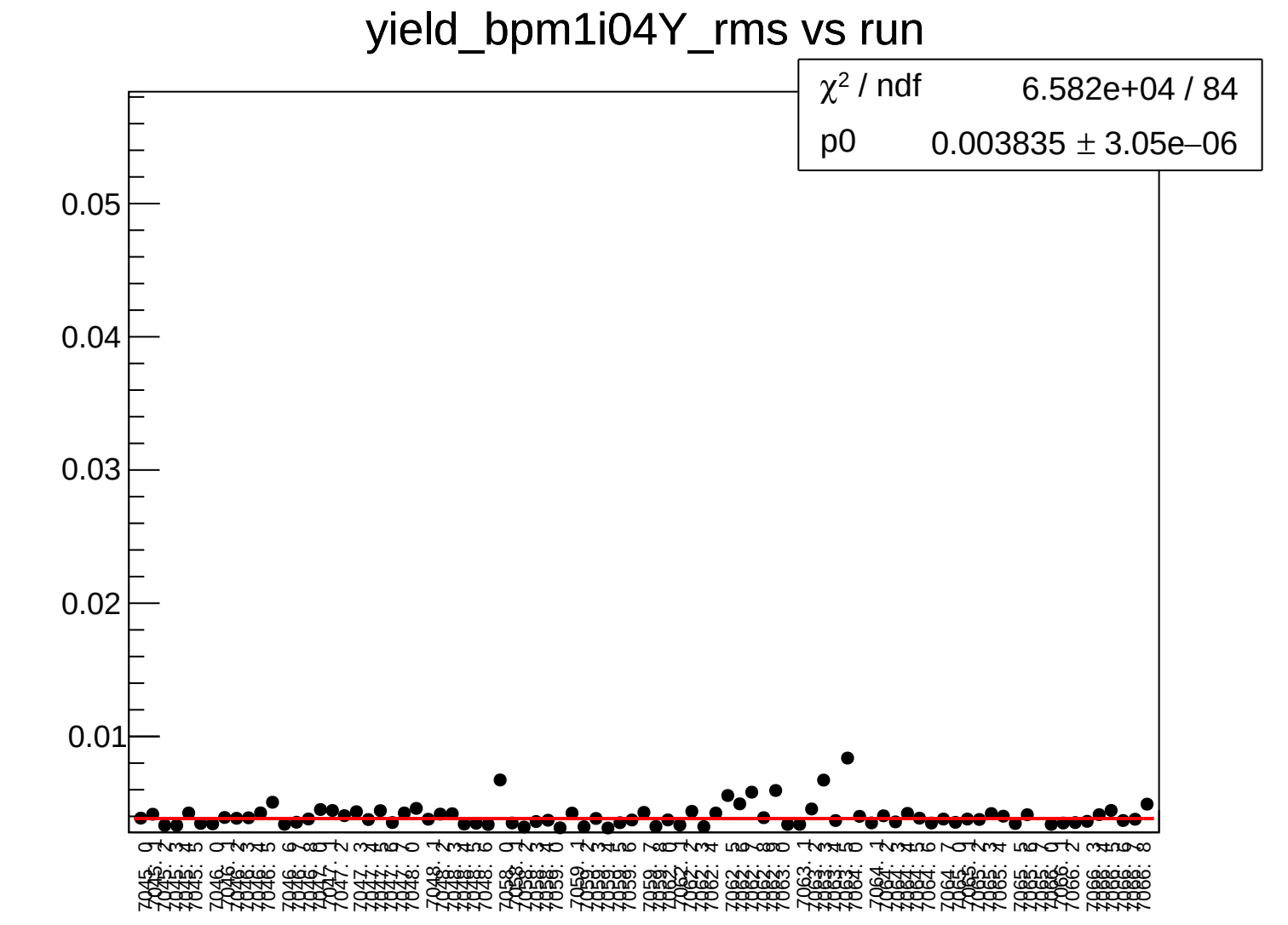

yield_bpm1i04X_mean vs run
χ² / ndf 3.724e+07 / 84
p0 1.156 ± 7.462e−06
1.2
1.18
1.16
1.14
1.12
1.1
1.08
1.06
pull
Entries 85
Mean −1126
Std Dev 0
500
0
−500
−1000
−1500

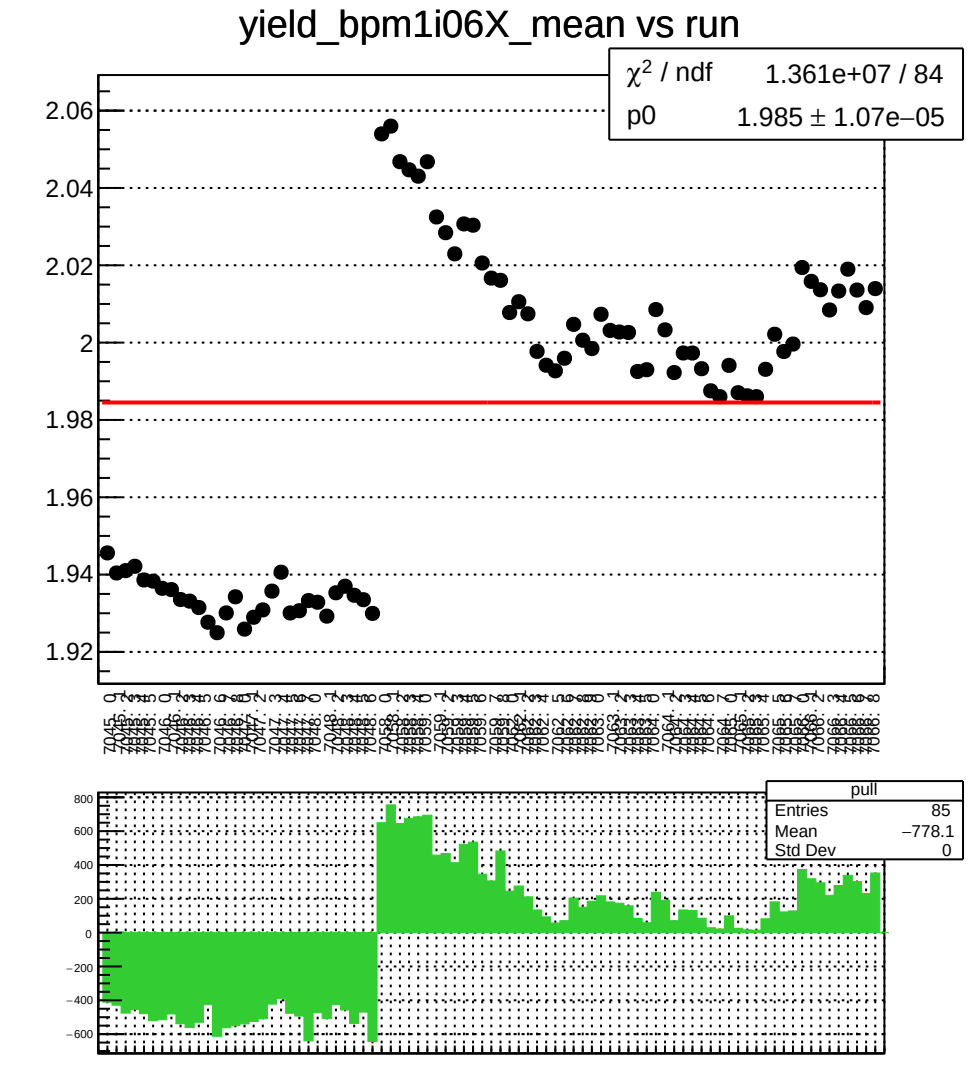

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

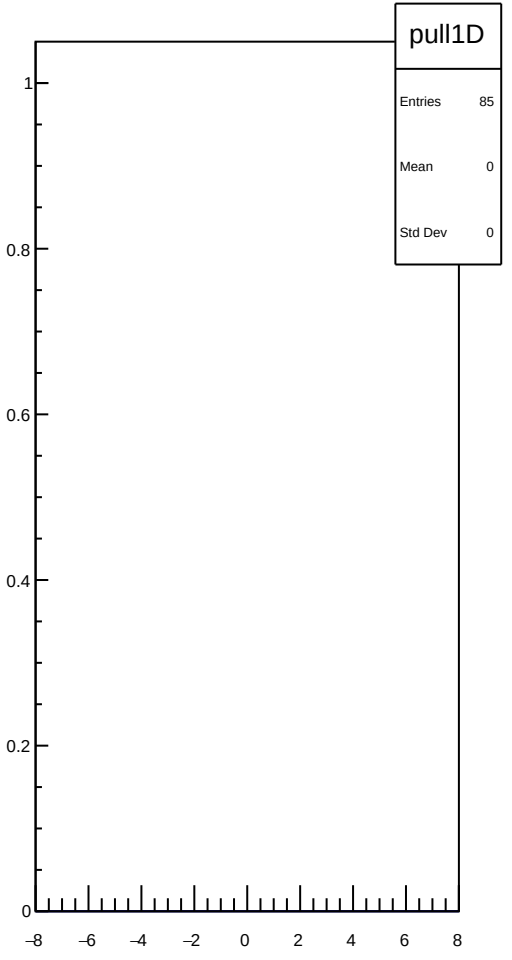

yield_bpm1i04X_rms vs run
χ² / ndf 3.346e+04 / 84
p0 0.006703 ± 5.277e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

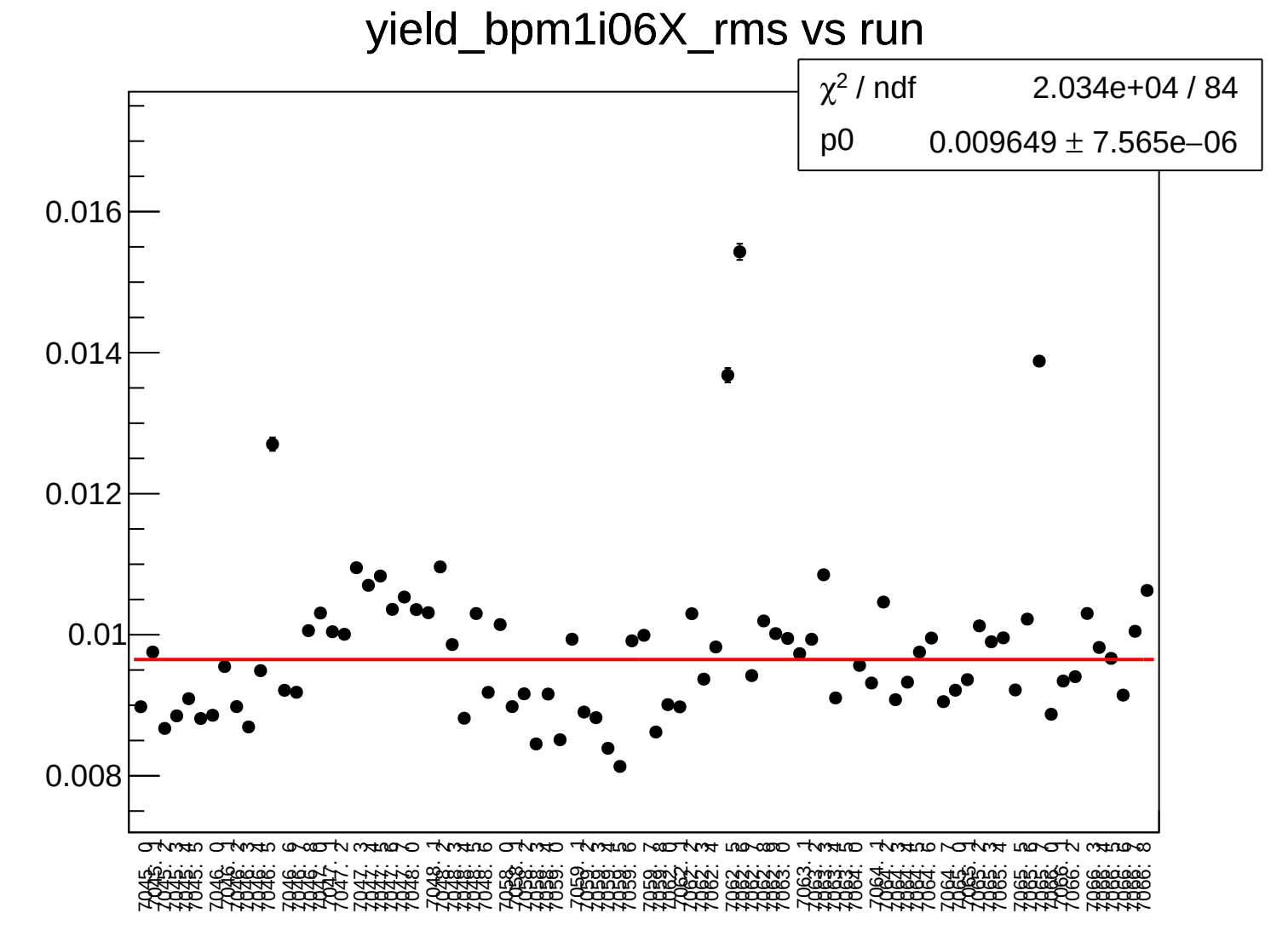

yield_bpm1i04Y_mean vs run
χ² / ndf 5.614e+07 / 84
p0 0.5634 ± 4.313e−06
0.66
0.64
0.62
0.6
0.58
0.56
0.54
pull
Entries 85
Mean −1093
Std Dev 0
2500
2000
1500
1000
500
0
−500

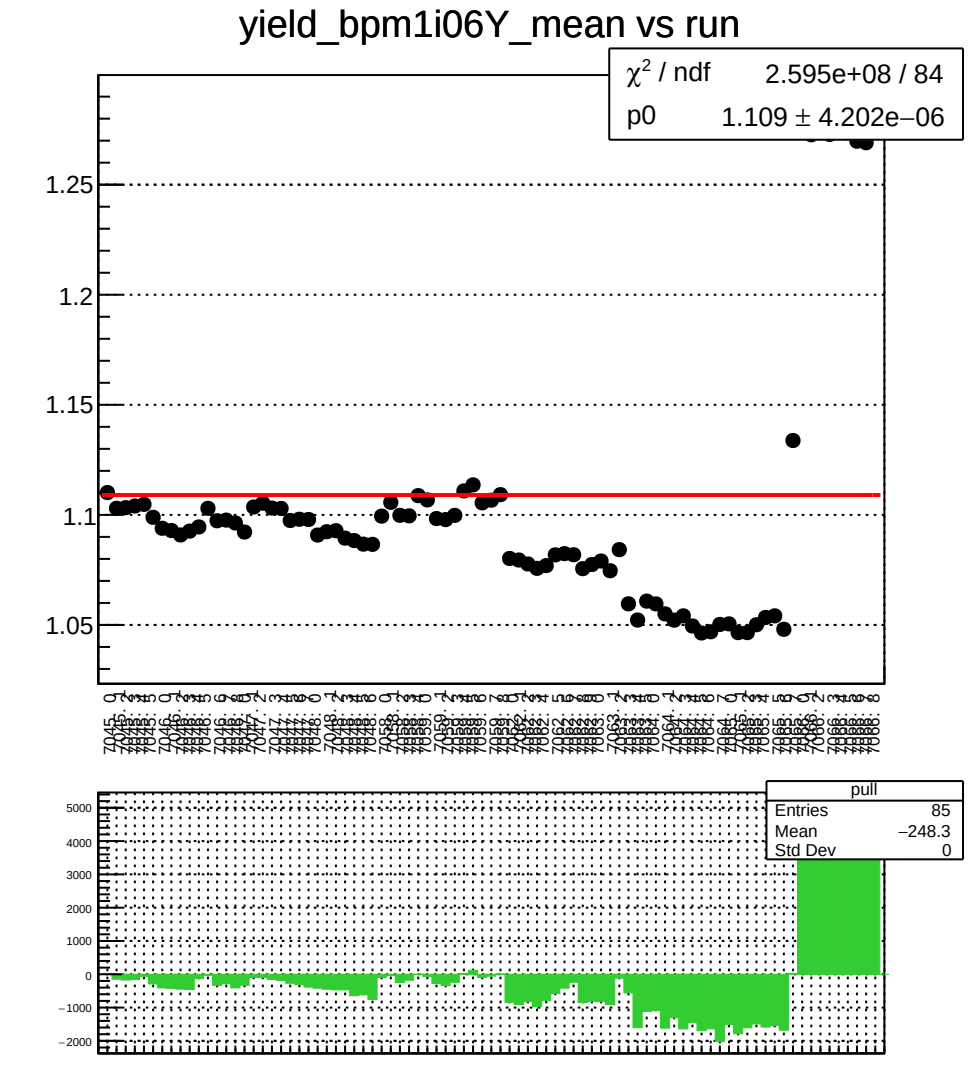

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

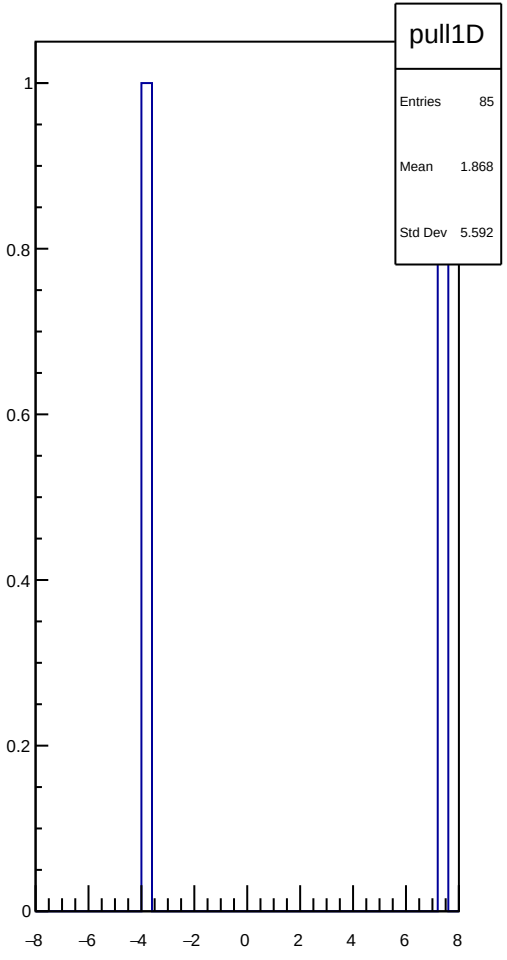

yield_bpm1i04Y_rms vs run
χ² / ndf 6.582e+04 / 84
p0 0.003835 ± 3.05e−06
0.05
0.04
0.03
0.02
0.01

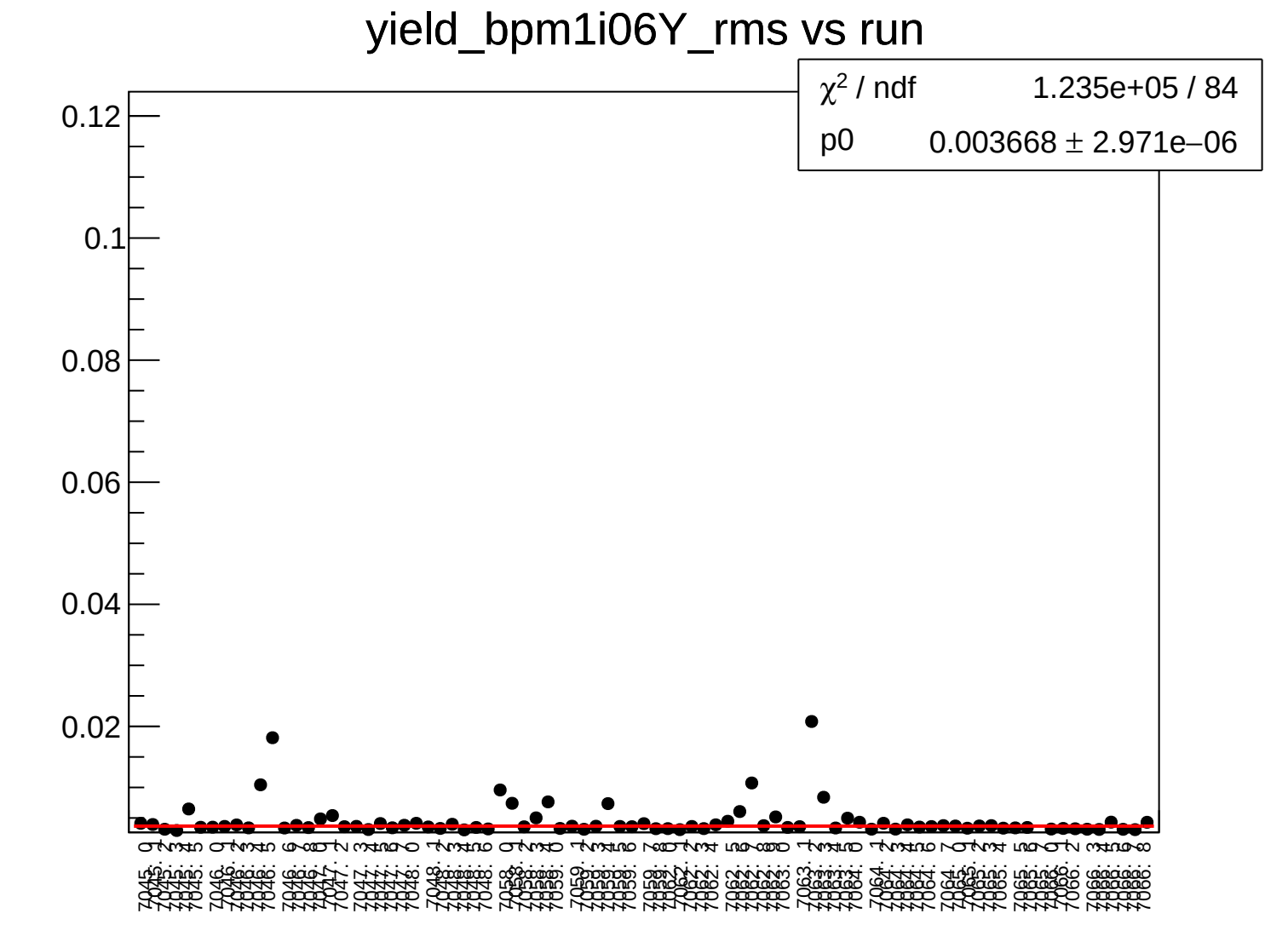

yield_bpm1i06X_mean vs run
χ² / ndf 1.361e+07 / 84
p0 1.985 ± 1.07e−05
2.06
2.04
2.02
2
1.98
1.96
1.94
1.92
pull
Entries 85
Mean −778.1
Std Dev 0
800
600
400
200
0
−200
−400
−600

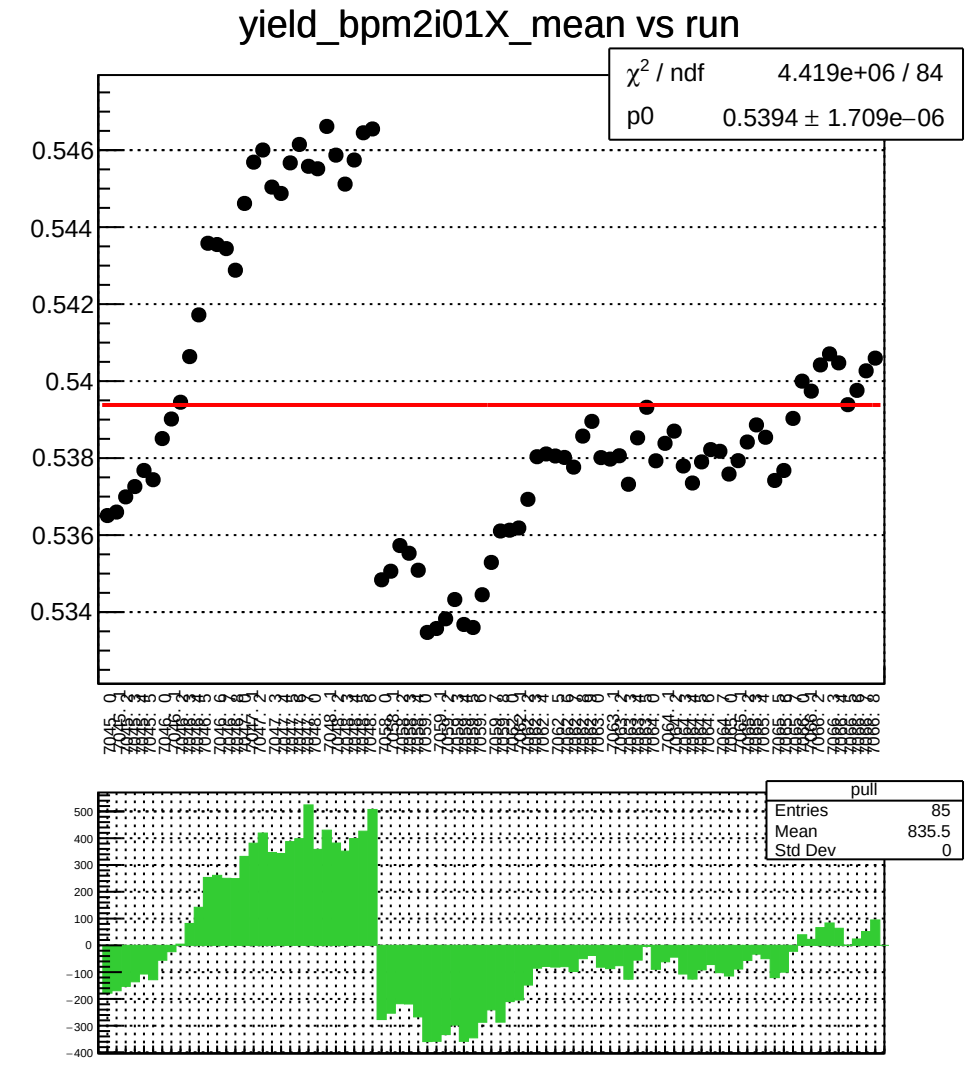

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

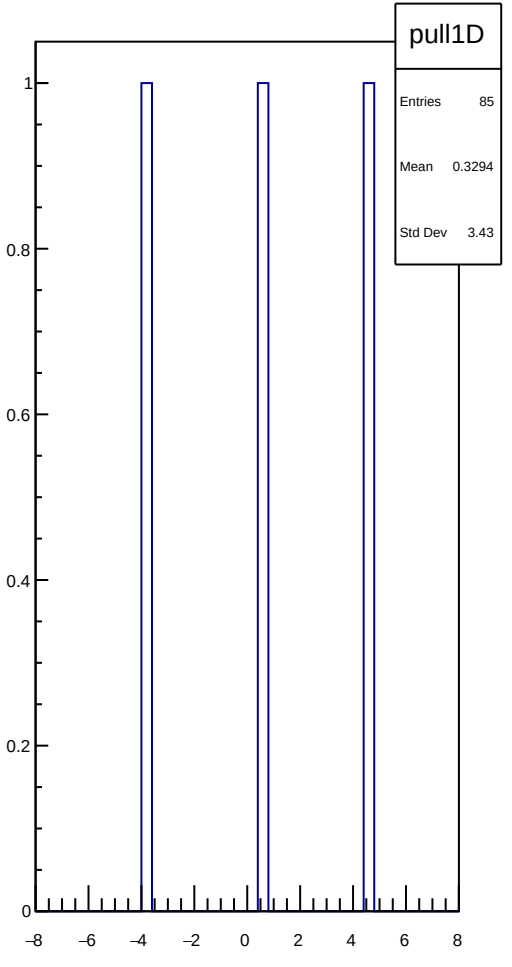

yield_bpm1i06X_rms vs run
χ² / ndf 2.034e+04 / 84
p0 0.009649 ± 7.565e−06
0.016
0.014
0.012
0.01
0.008

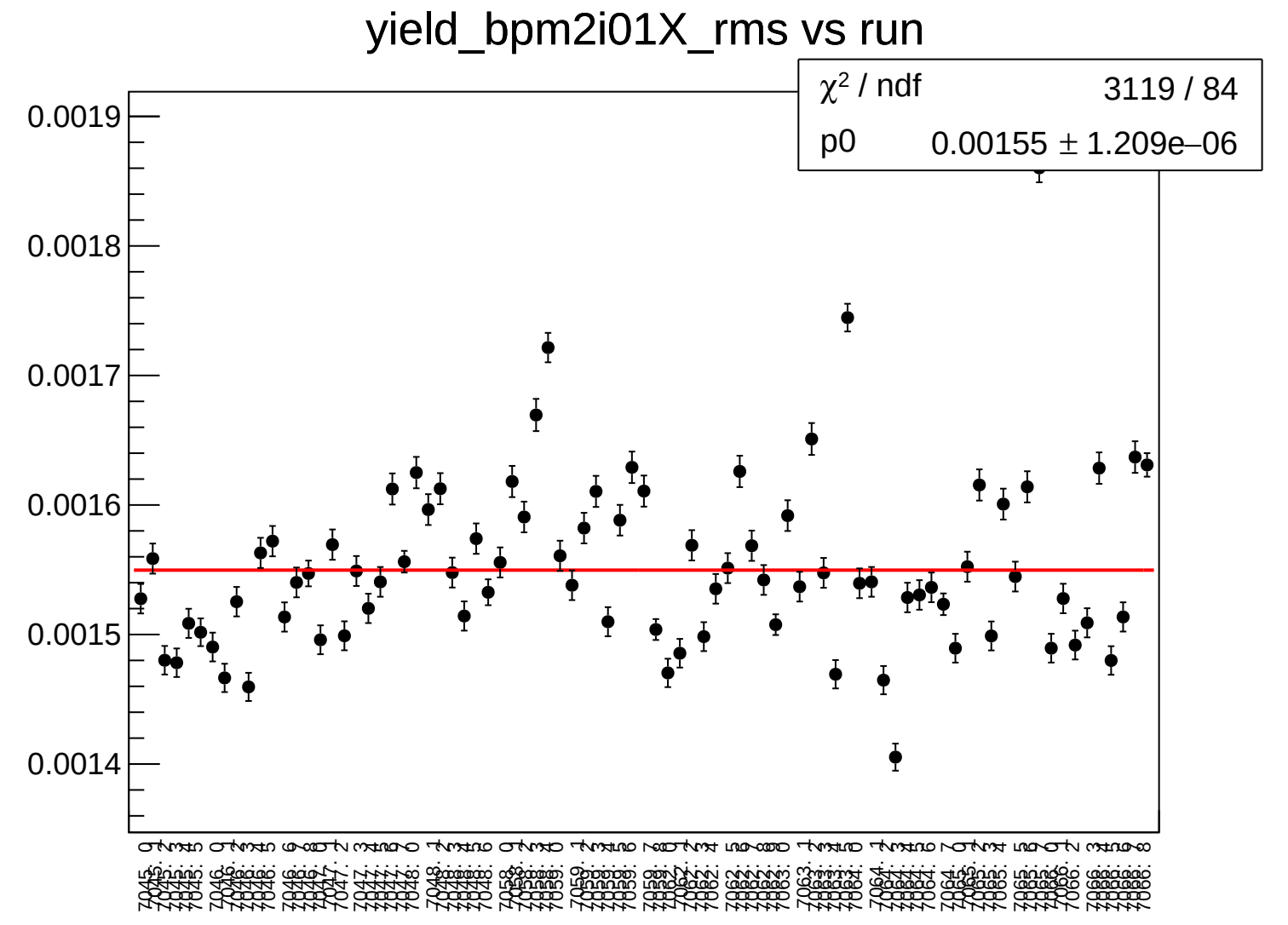

yield_bpm1i06Y_mean vs run
χ² / ndf 2.595e+08 / 84
p0 1.109 ± 4.202e−06
1.25
1.2
1.15
1.1
1.05
pull
Entries 85
Mean −248.3
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000

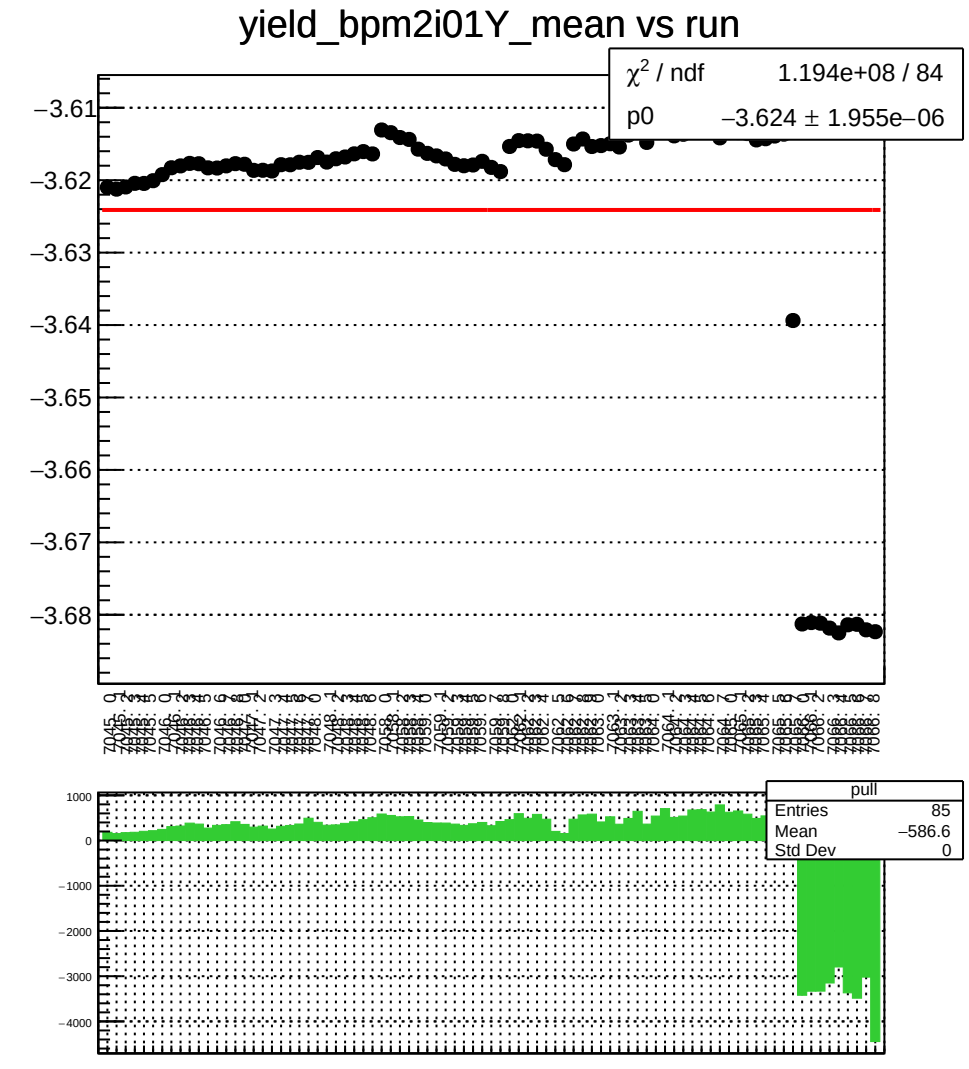

pull1D
Entries 85
Mean 1.868
Std Dev 5.592
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

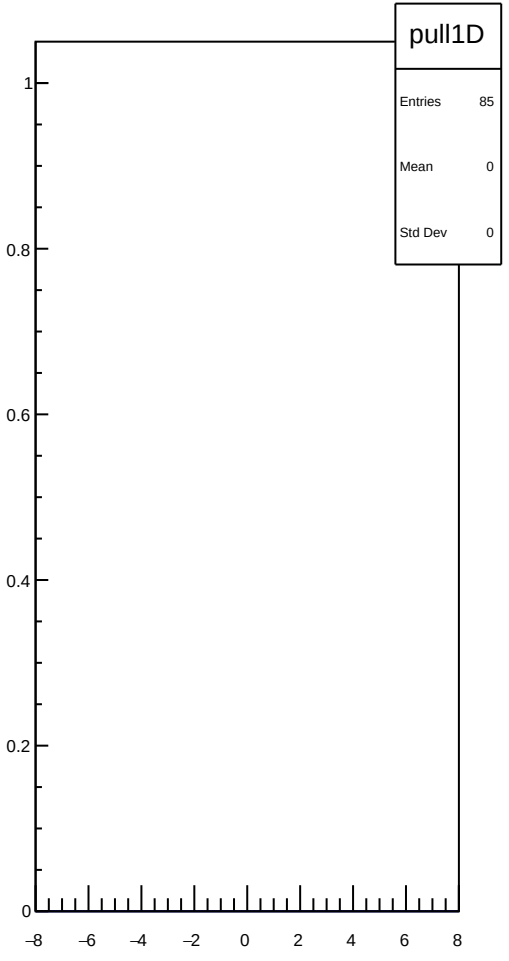

yield_bpm1i06Y_rms vs run
χ² / ndf 1.235e+05 / 84
p0 0.003668 ± 2.971e−06
0.12
0.1
0.08
0.06
0.04
0.02

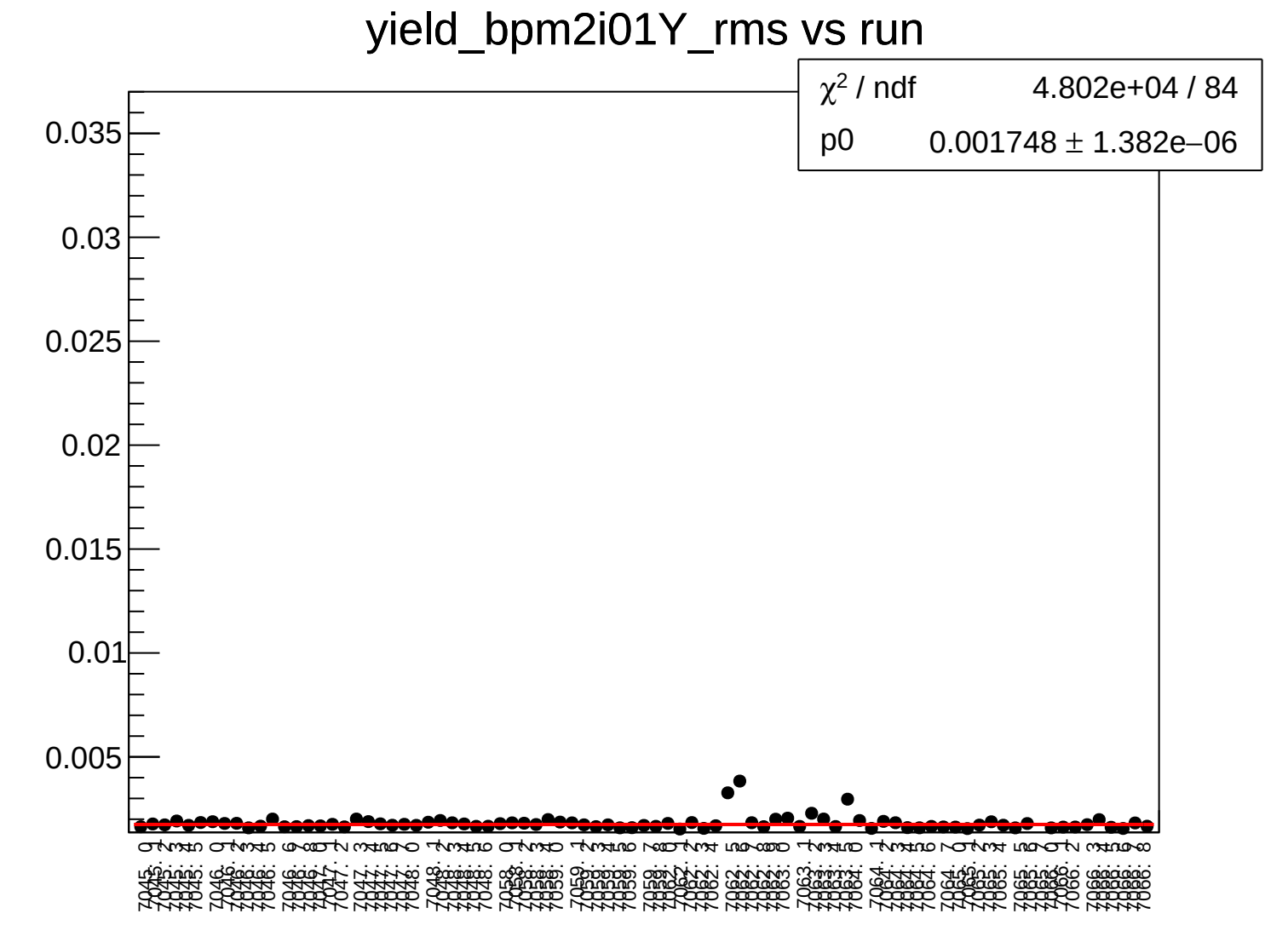

yield_bpm2i01X_mean vs run
χ² / ndf 4.419e+06 / 84
p0 0.5394 ± 1.709e−06
0.546
0.544
0.542
0.54
0.538
0.536
0.534
pull
Entries 85
Mean 835.5
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

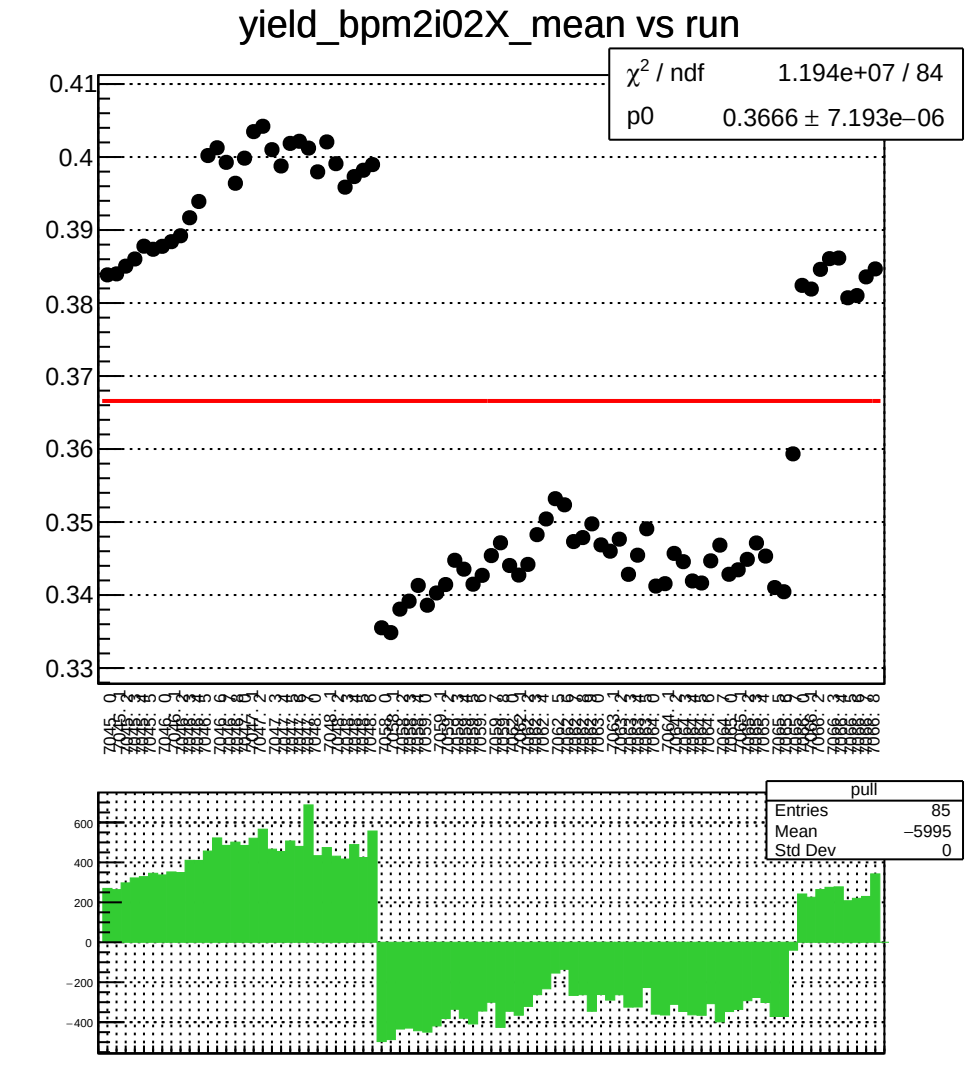

pull1D
Entries 85
Mean 0.3294
Std Dev 3.43
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

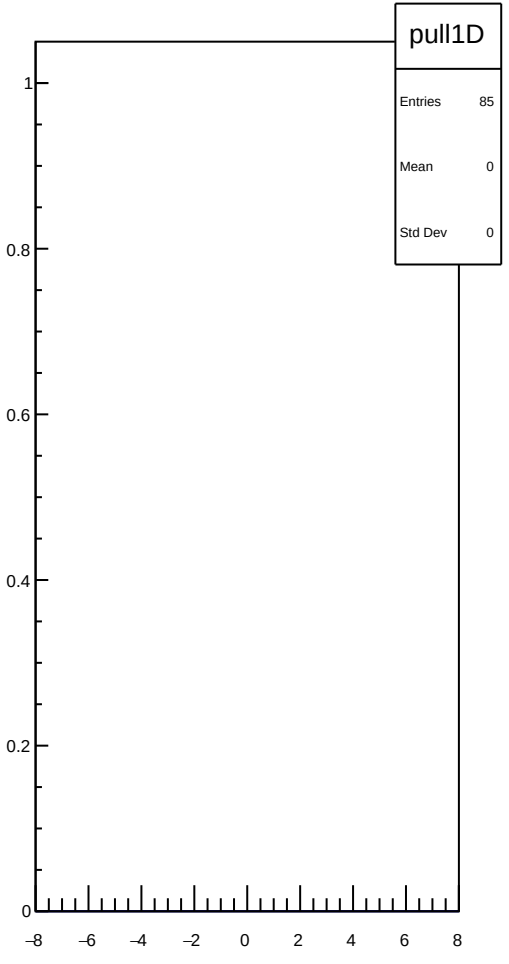

yield_bpm2i01X_rms vs run
χ² / ndf 3119 / 84
p0 0.00155 ± 1.209e–06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

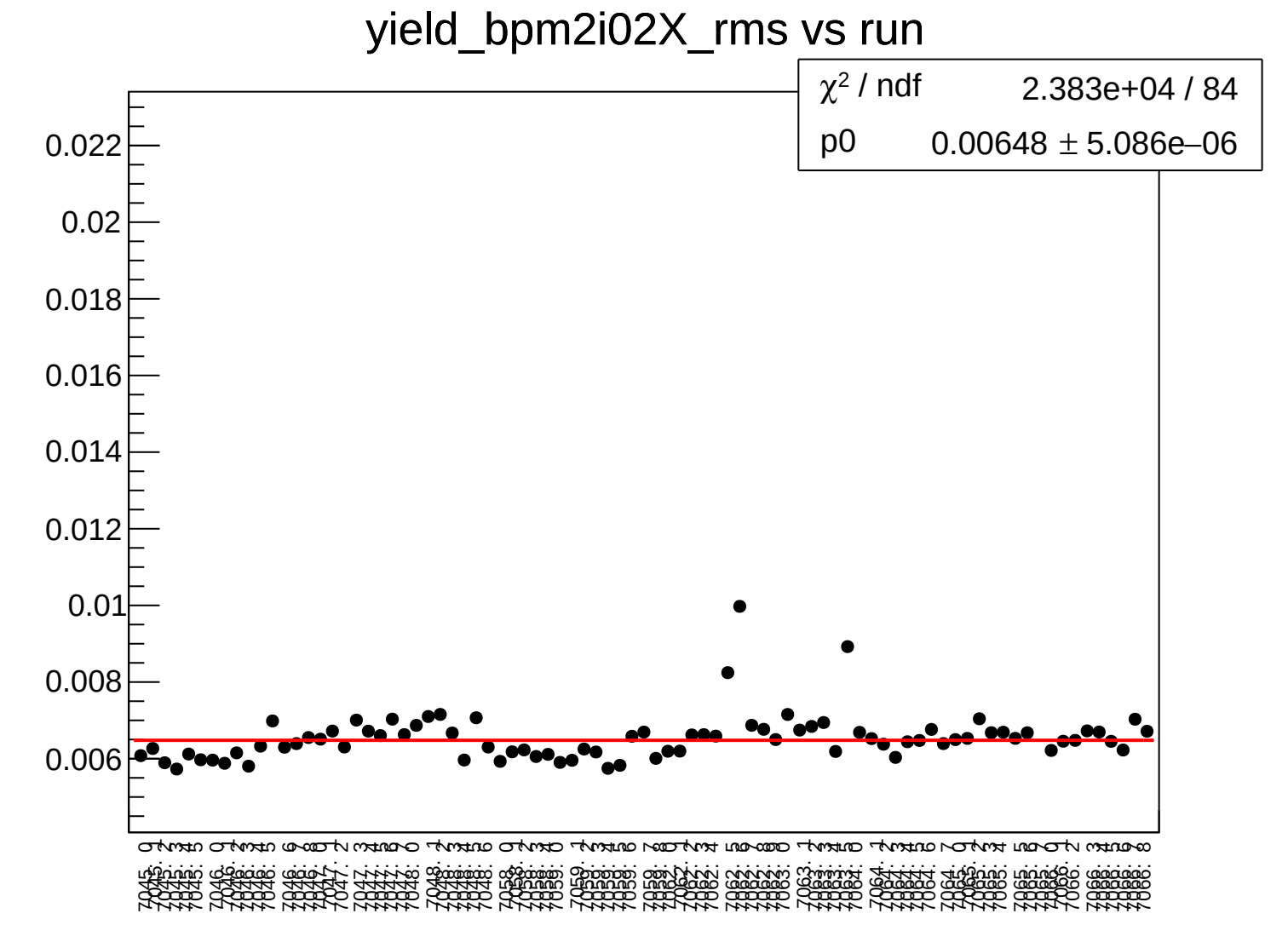

yield_bpm2i01Y_mean vs run
χ² / ndf 1.194e+08 / 84
p0 −3.624 ± 1.955e−06
−3.61
−3.62
−3.63
−3.64
−3.65
−3.66
−3.67
−3.68
pull
Entries 85
Mean −586.6
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

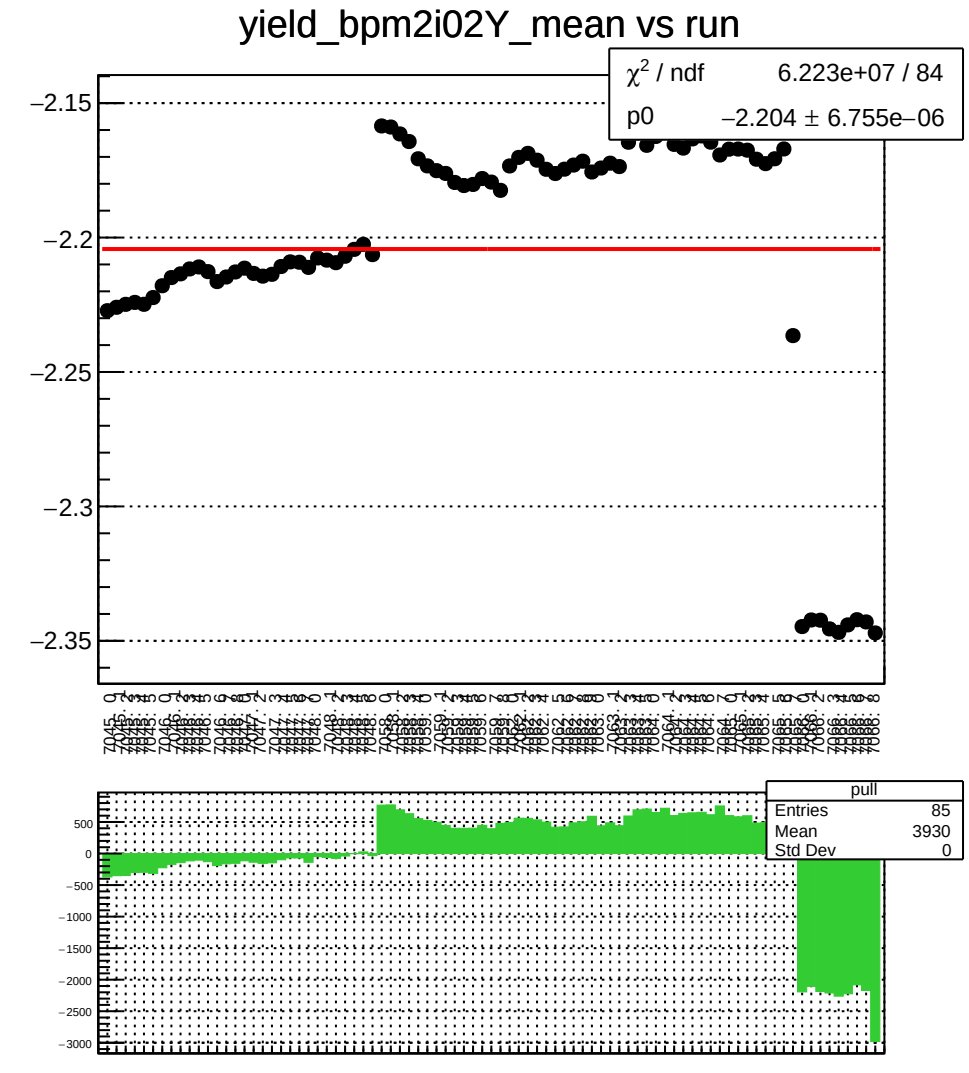

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

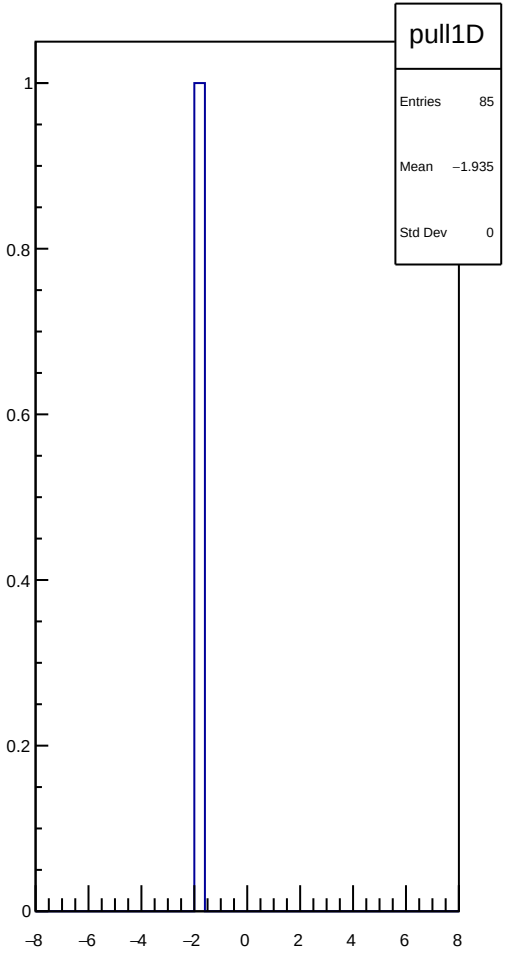

yield_bpm2i01Y_rms vs run
χ² / ndf 4.802e+04 / 84
p0 0.001748 ± 1.382e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

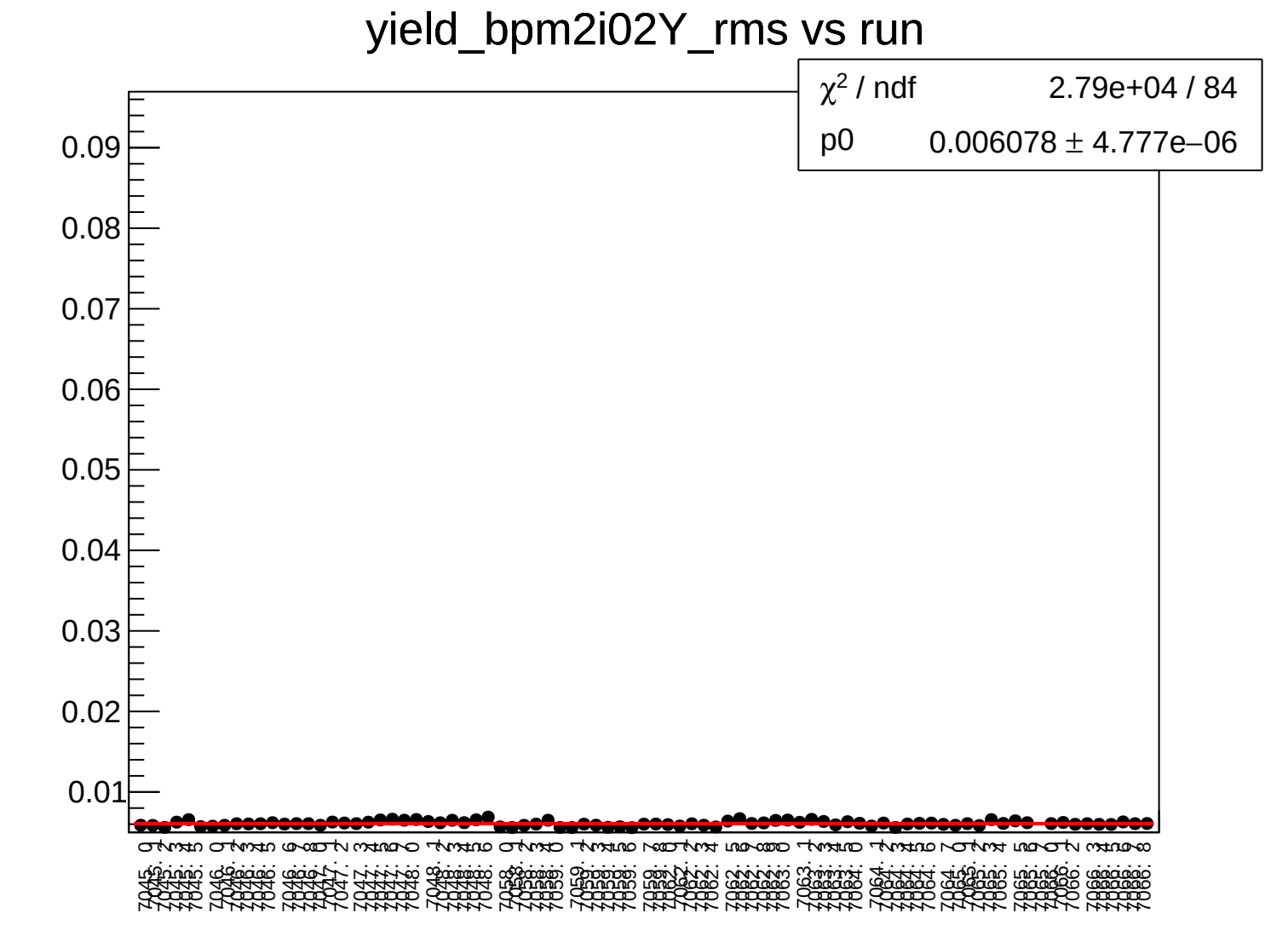

yield_bpm2i02X_mean vs run
χ² / ndf 1.194e+07 / 84
p0 0.3666 ± 7.193e−06
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
pull
Entries 85
Mean −5995
Std Dev 0
600
400
200
0
−200
−400

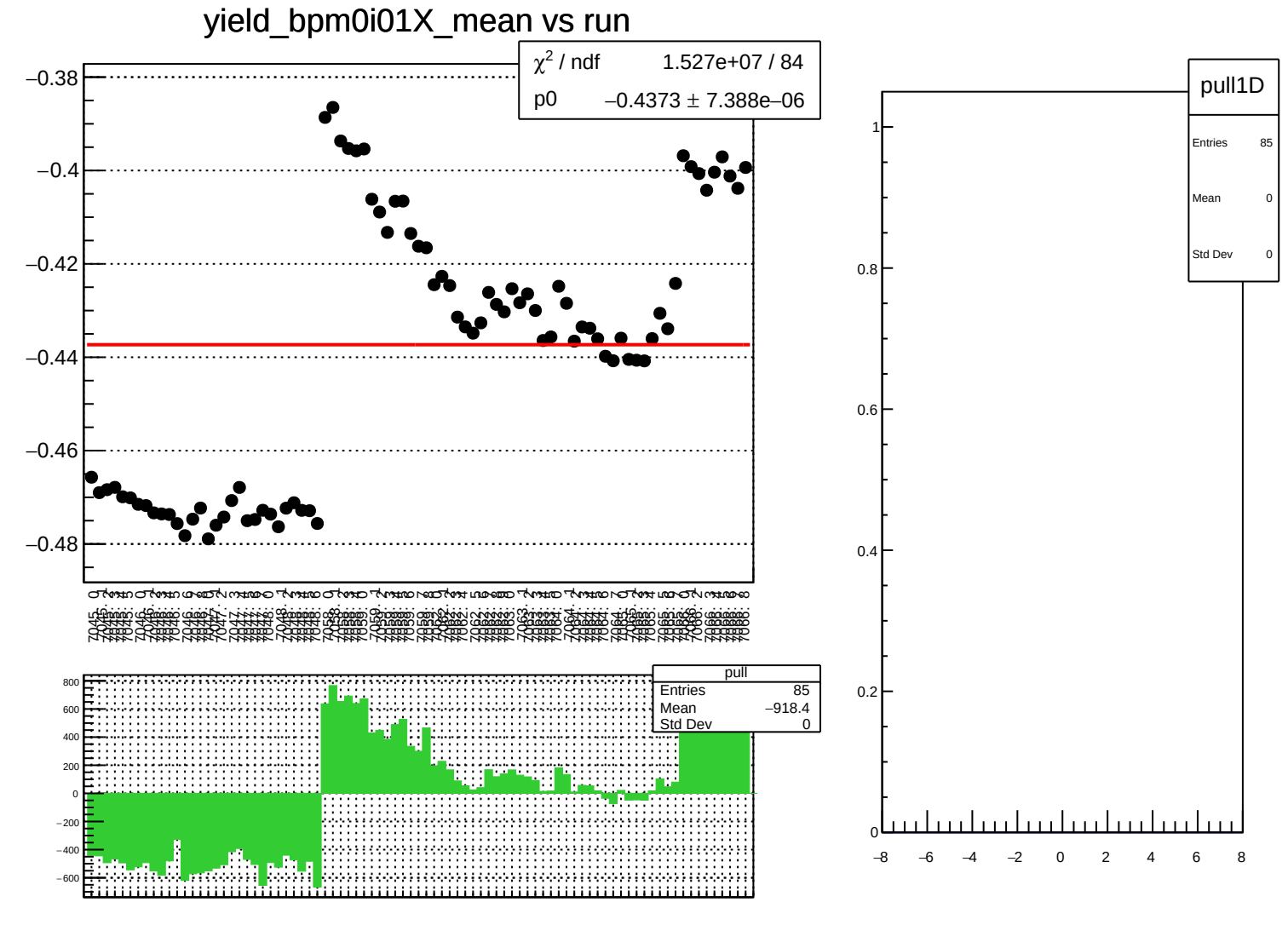

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

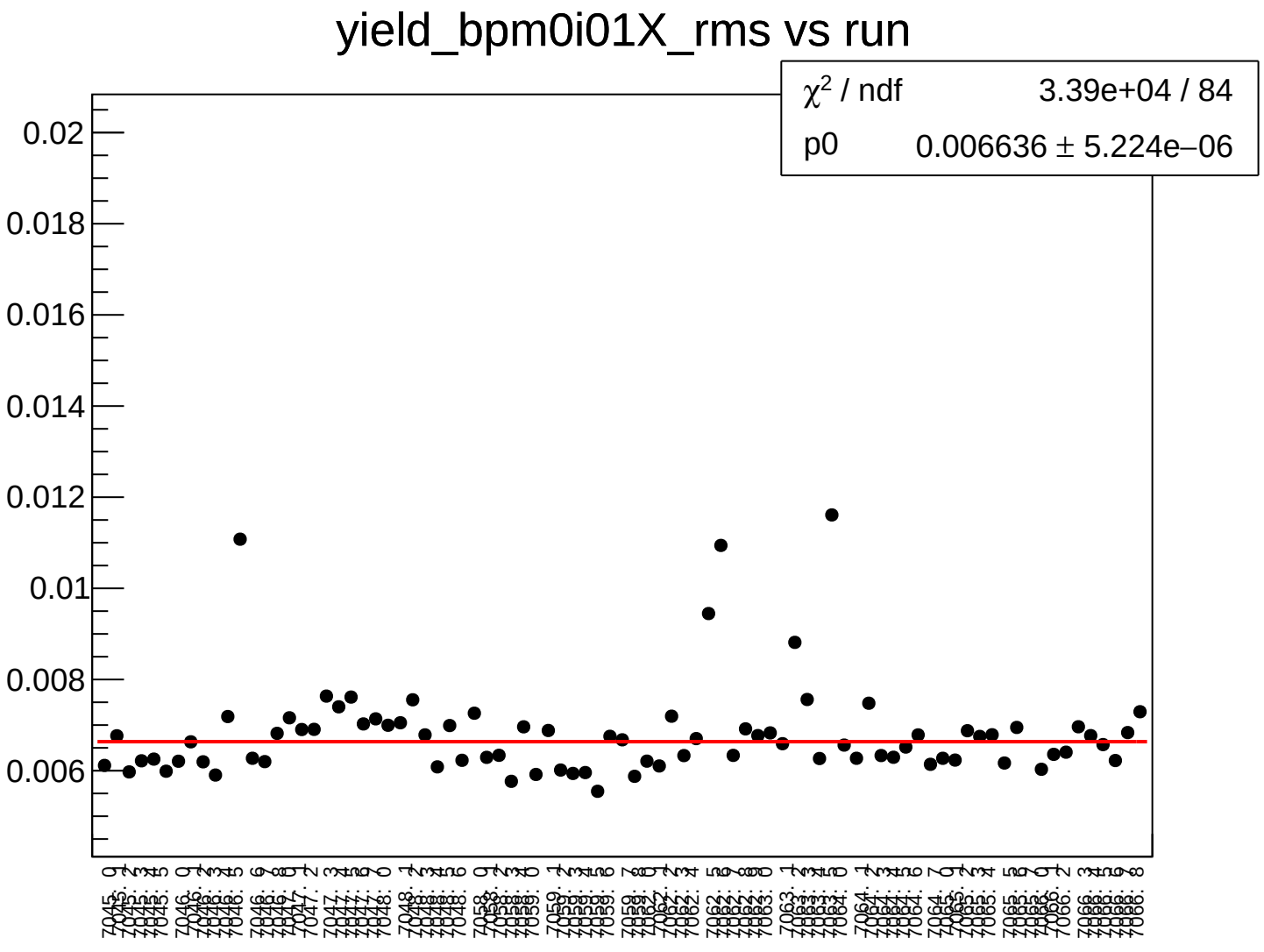

yield_bpm2i02X_rms vs run
χ² / ndf 2.383e+04 / 84
p0 0.00648 ± 5.086e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

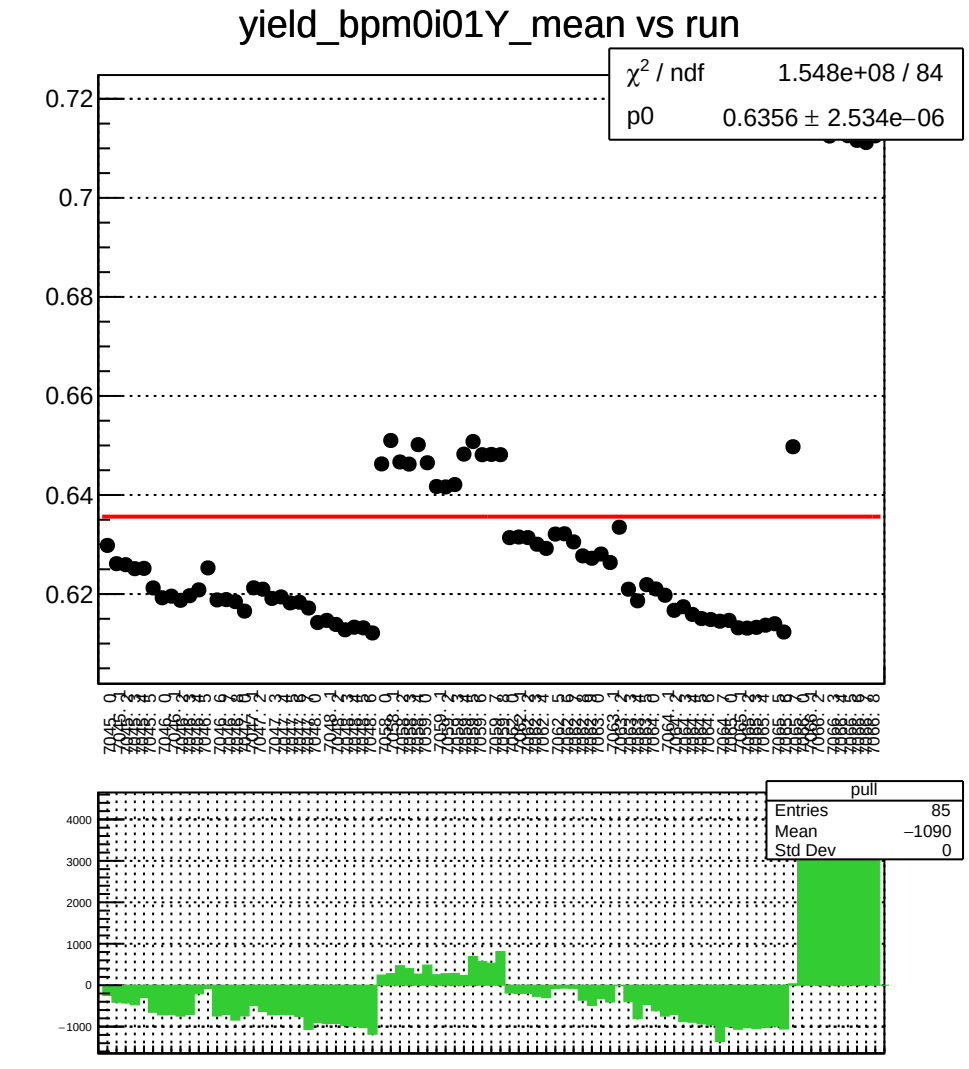

yield_bpm2i02Y_mean vs run
χ² / ndf 6.223e+07 / 84
p0 −2.204 ± 6.755e−06
−2.15
−2.2
−2.25
−2.3
−2.35
pull
Entries 85
Mean 3930
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

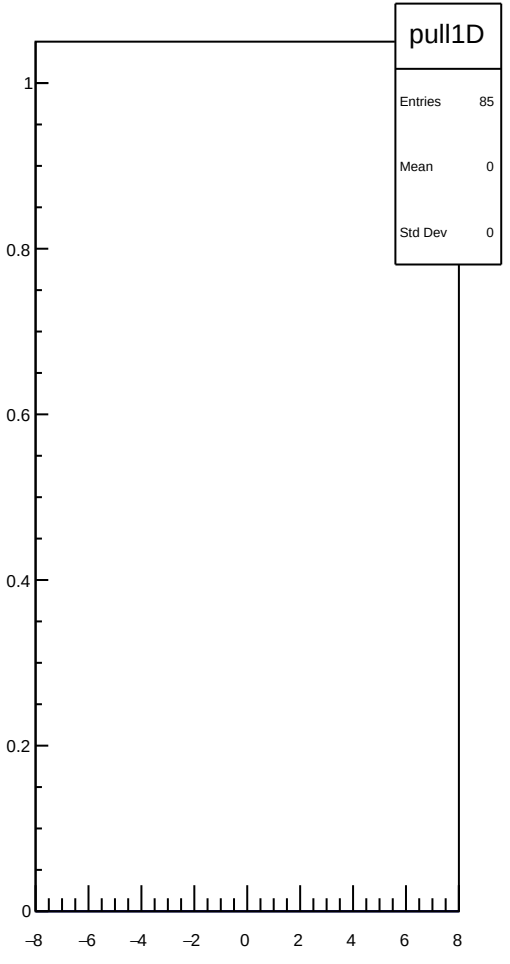

pull1D
Entries 85
Mean −1.935
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

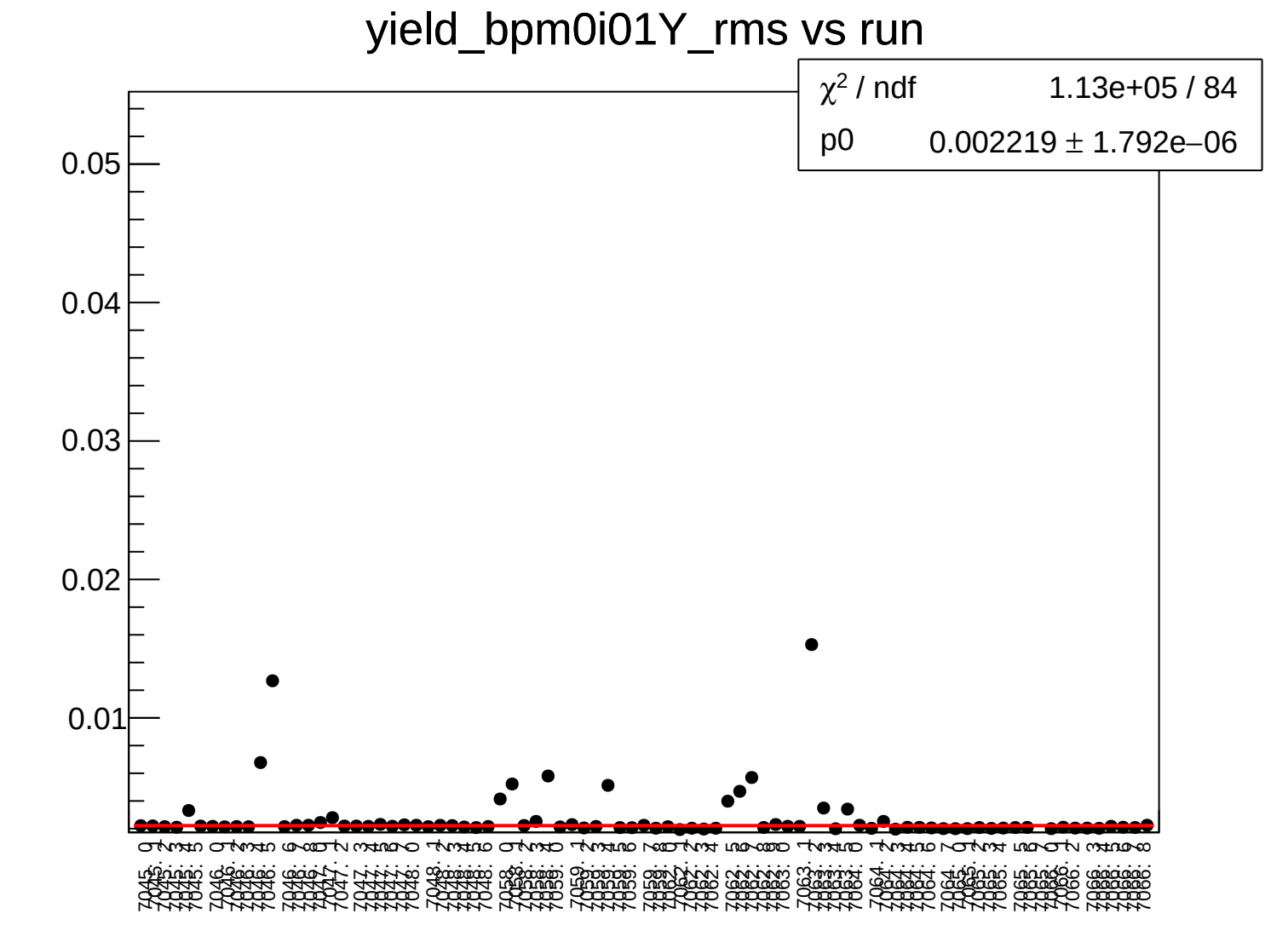

yield_bpm2i02Y_rms vs run
χ² / ndf 2.79e+04 / 84
p0 0.006078 ± 4.777e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

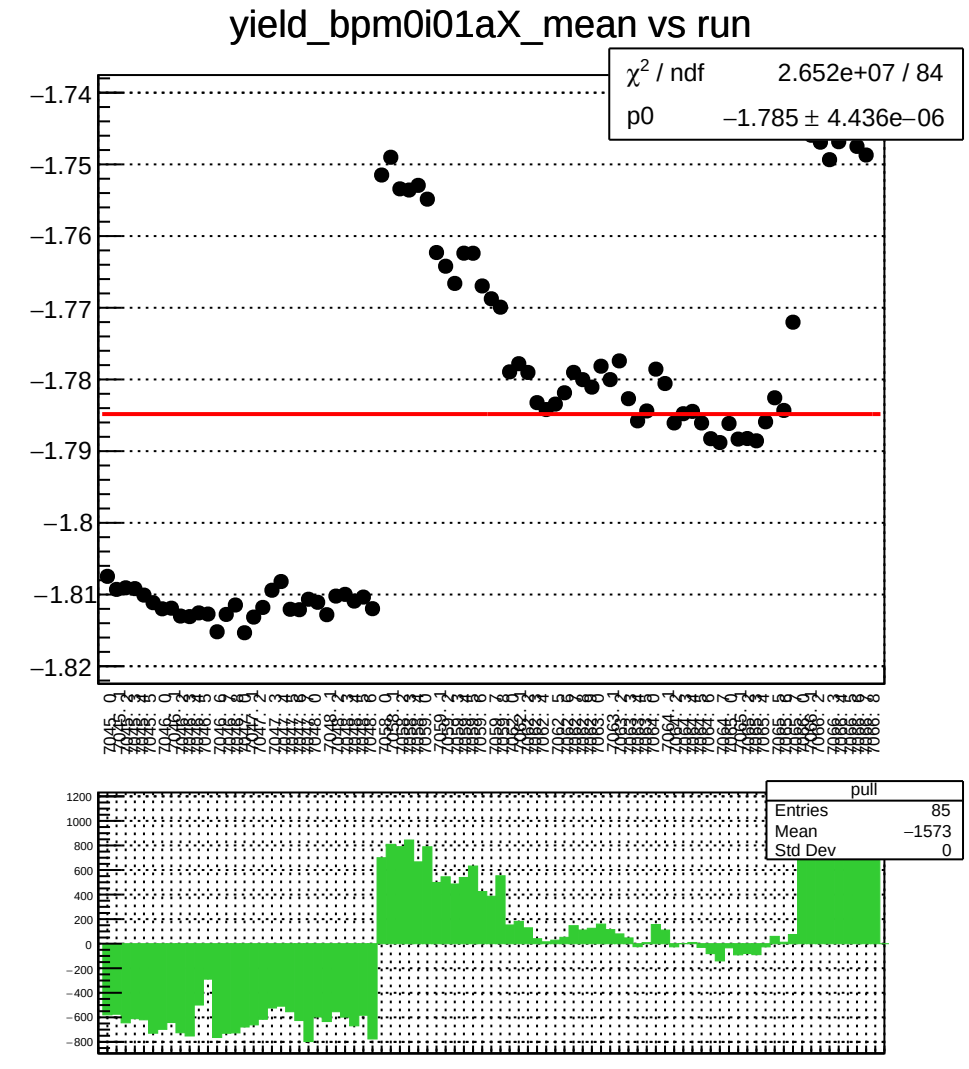

yield_bpm0i01X_mean vs run
χ² / ndf 1.527e+07 / 84
p0 −0.4373 ± 7.388e−06
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 85
Mean −918.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

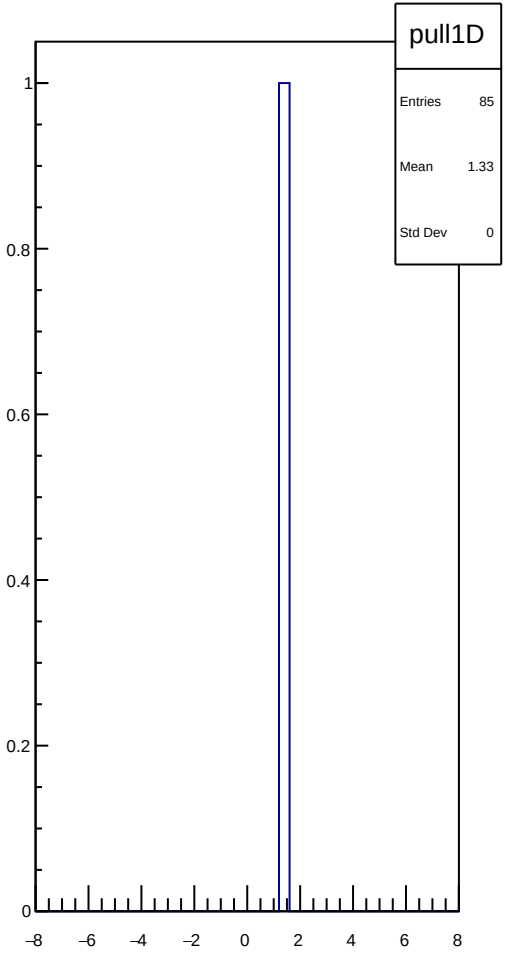

yield_bpm0i01X_rms vs run
χ² / ndf 3.39e+04 / 84
p0 0.006636 ± 5.224e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

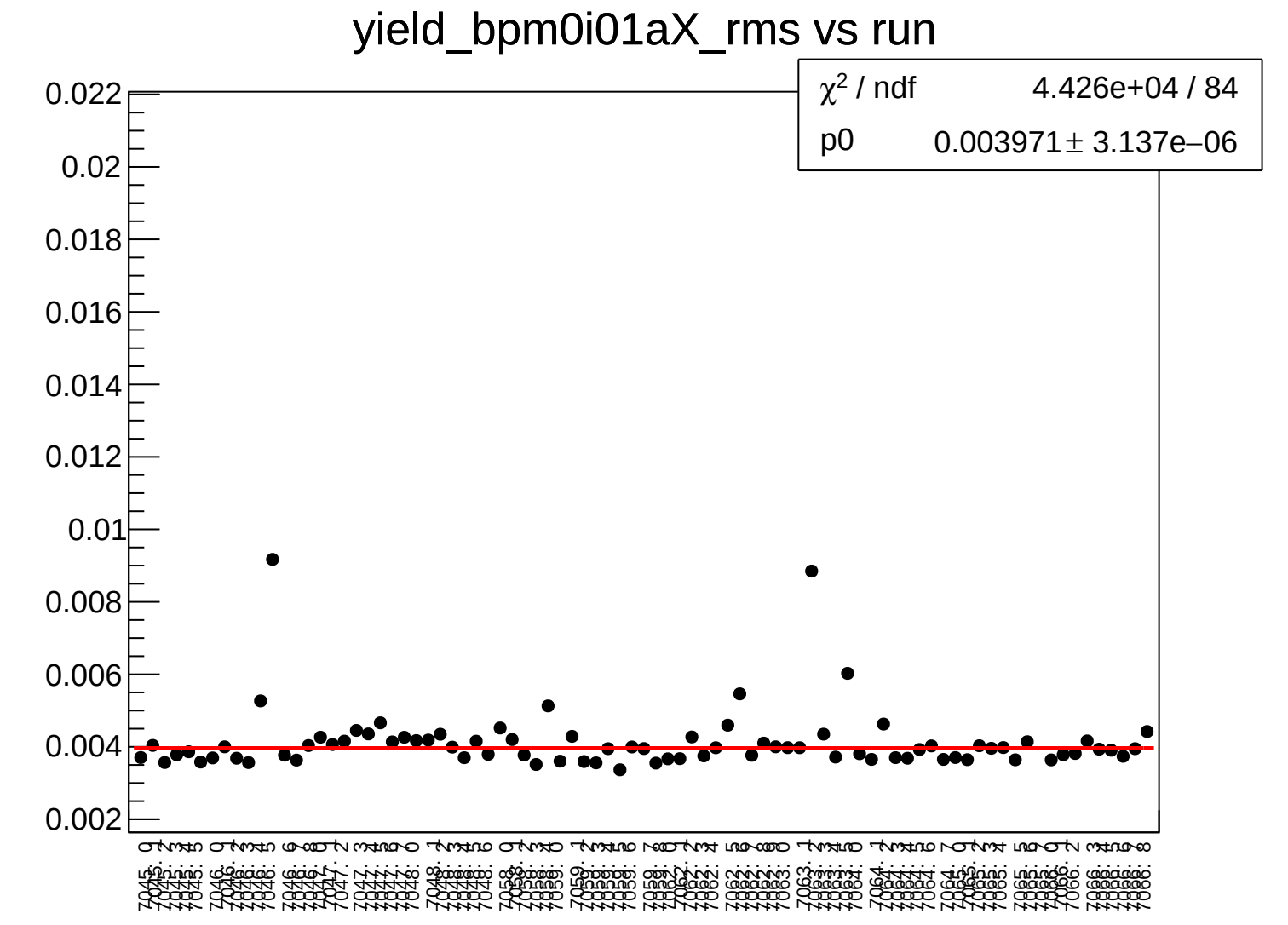

yield_bpm0i01Y_mean vs run
χ² / ndf 1.548e+08 / 84
p0 0.6356 ± 2.534e−06
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 85
Mean −1090
Std Dev 0
4000
3000
2000
1000
0
−1000

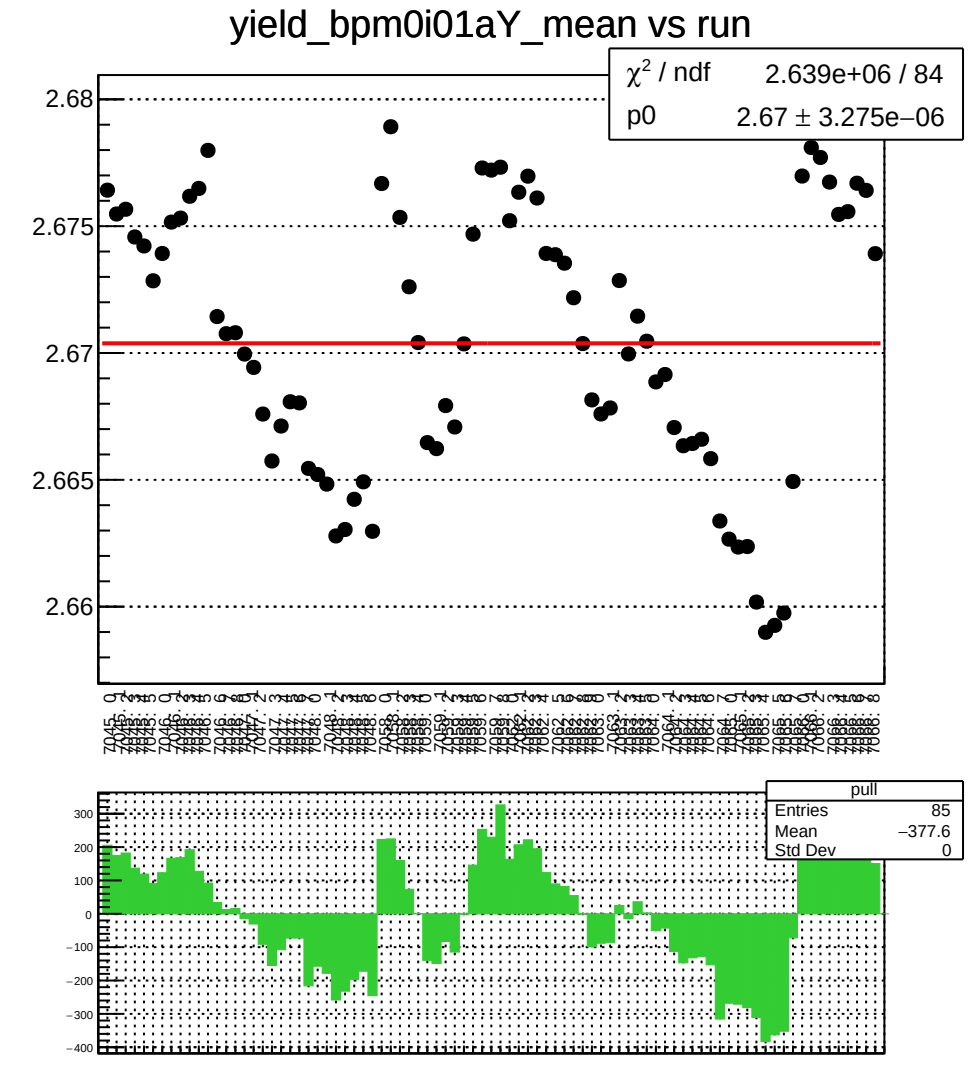

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

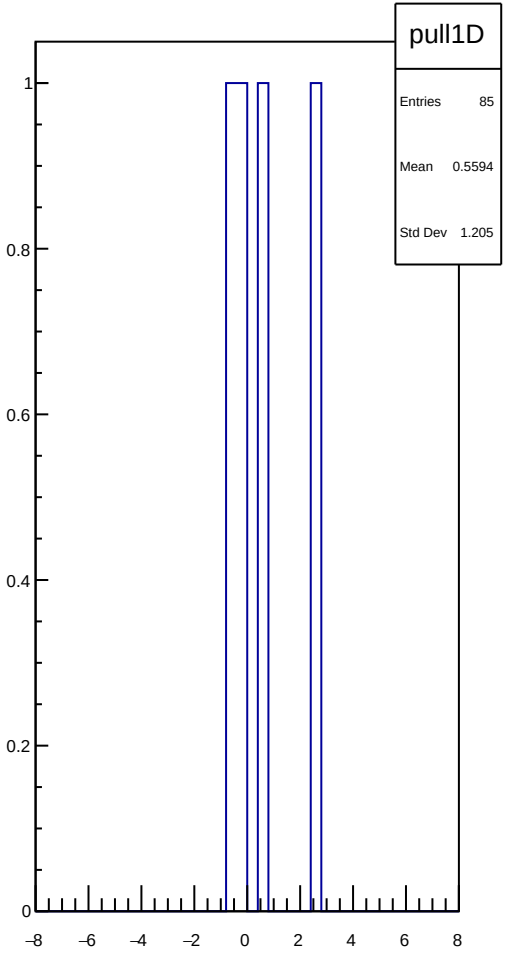

yield_bpm0i01Y_rms vs run
χ² / ndf 1.13e+05 / 84
p0 0.002219 ± 1.792e−06
0.05
0.04
0.03
0.02
0.01

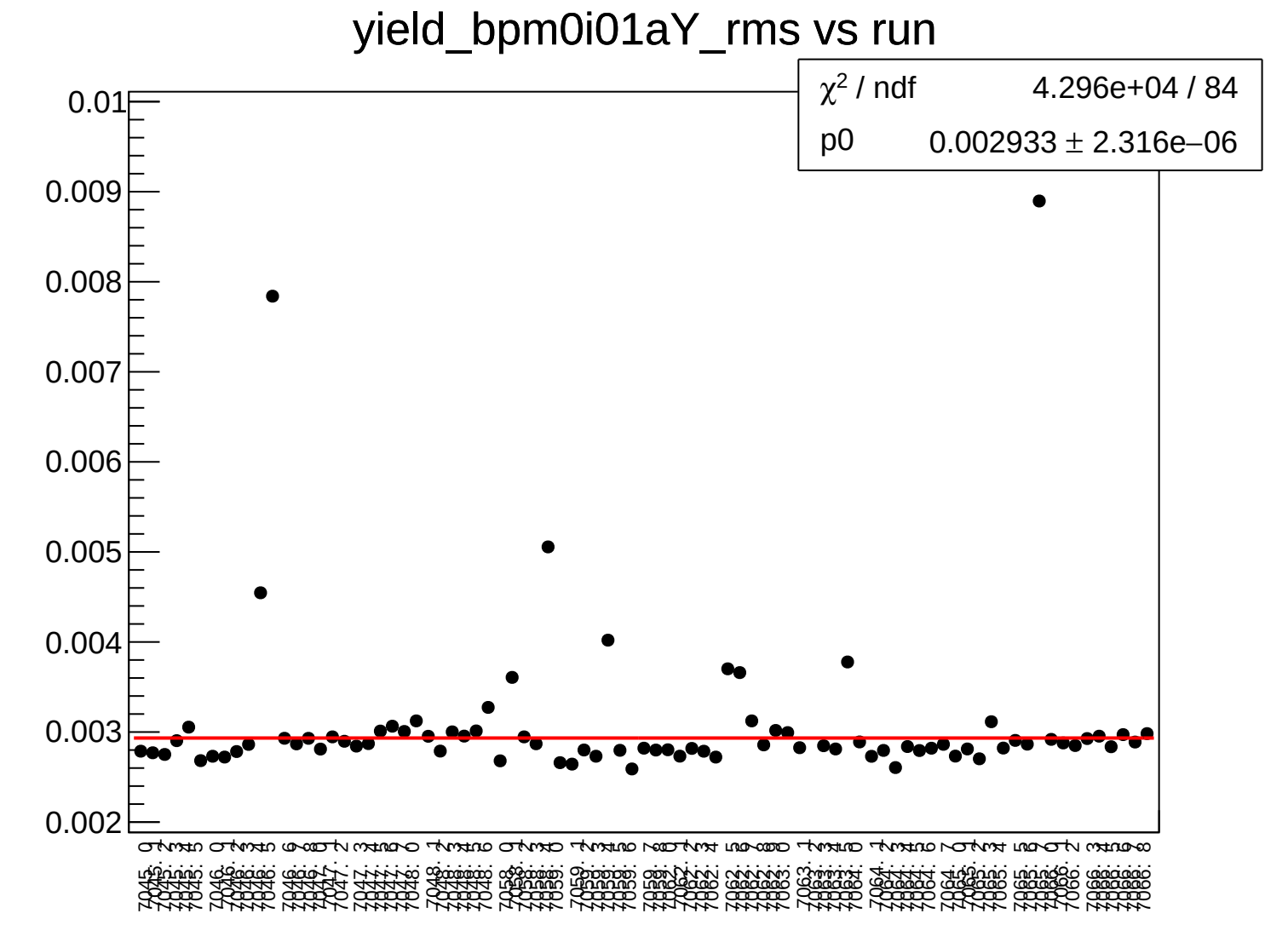

yield_bpm0i01aX_mean vs run
χ² / ndf 2.652e+07 / 84
p0 −1.785 ± 4.436e−06
−1.74
−1.75
−1.76
−1.77
−1.78
−1.79
−1.8
−1.81
−1.82
pull
Entries 85
Mean −1573
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

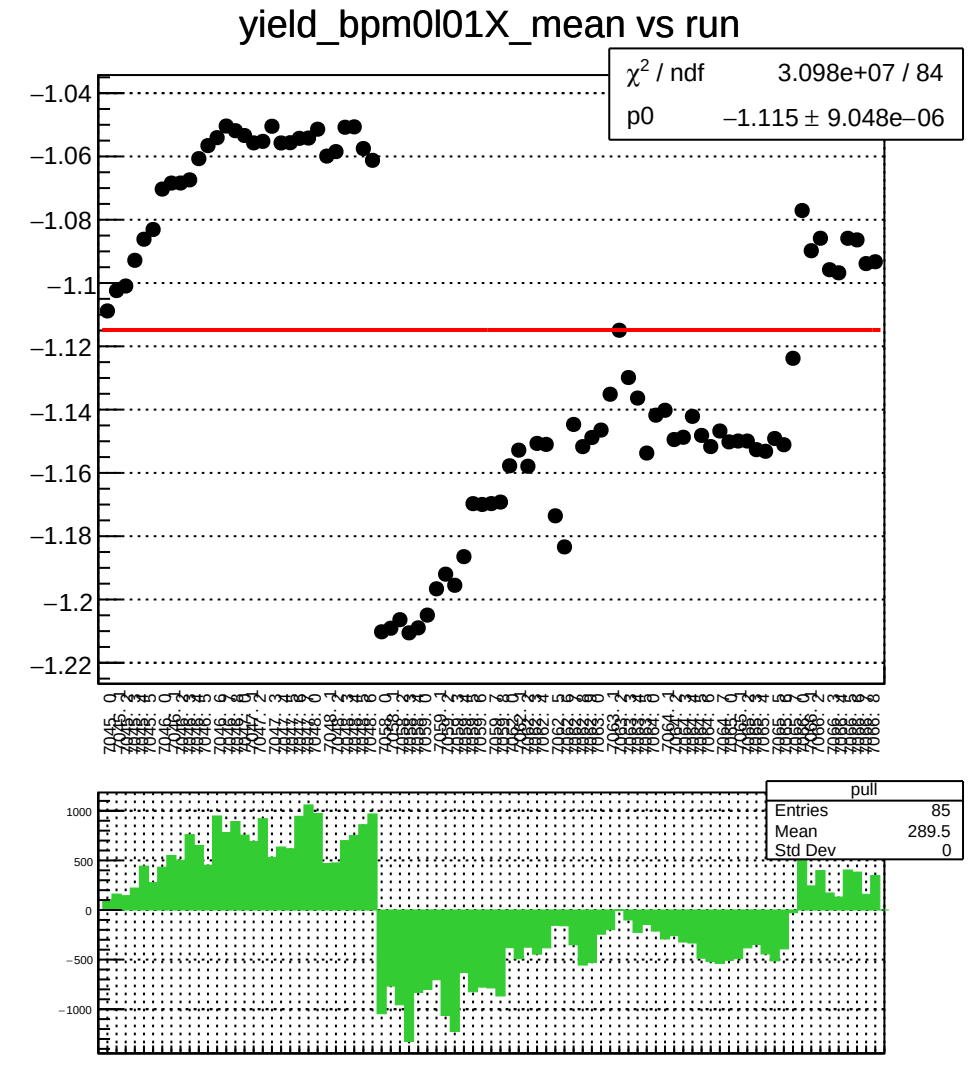

pull1D
Entries 85
Mean 1.33
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

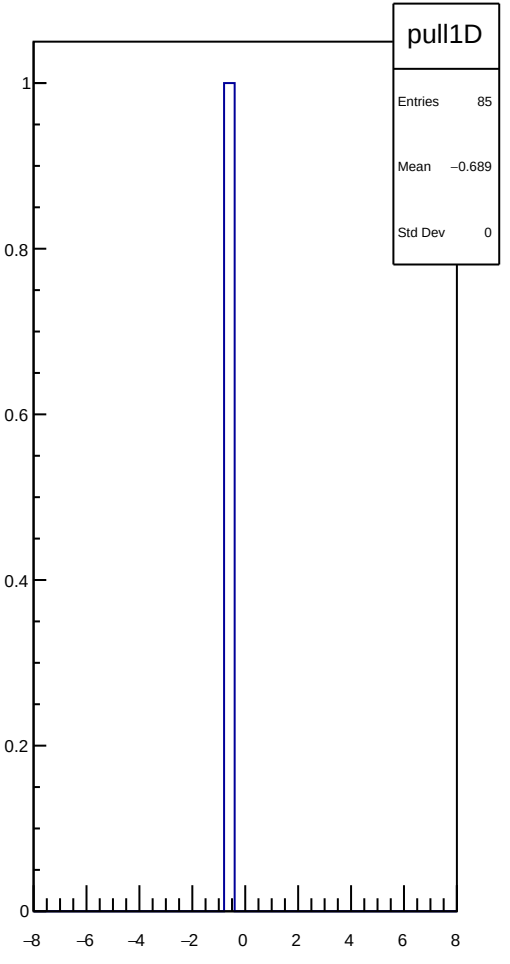

yield_bpm0i01aX_rms vs run
χ² / ndf 4.426e+04 / 84
p0 0.003971 ± 3.137e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

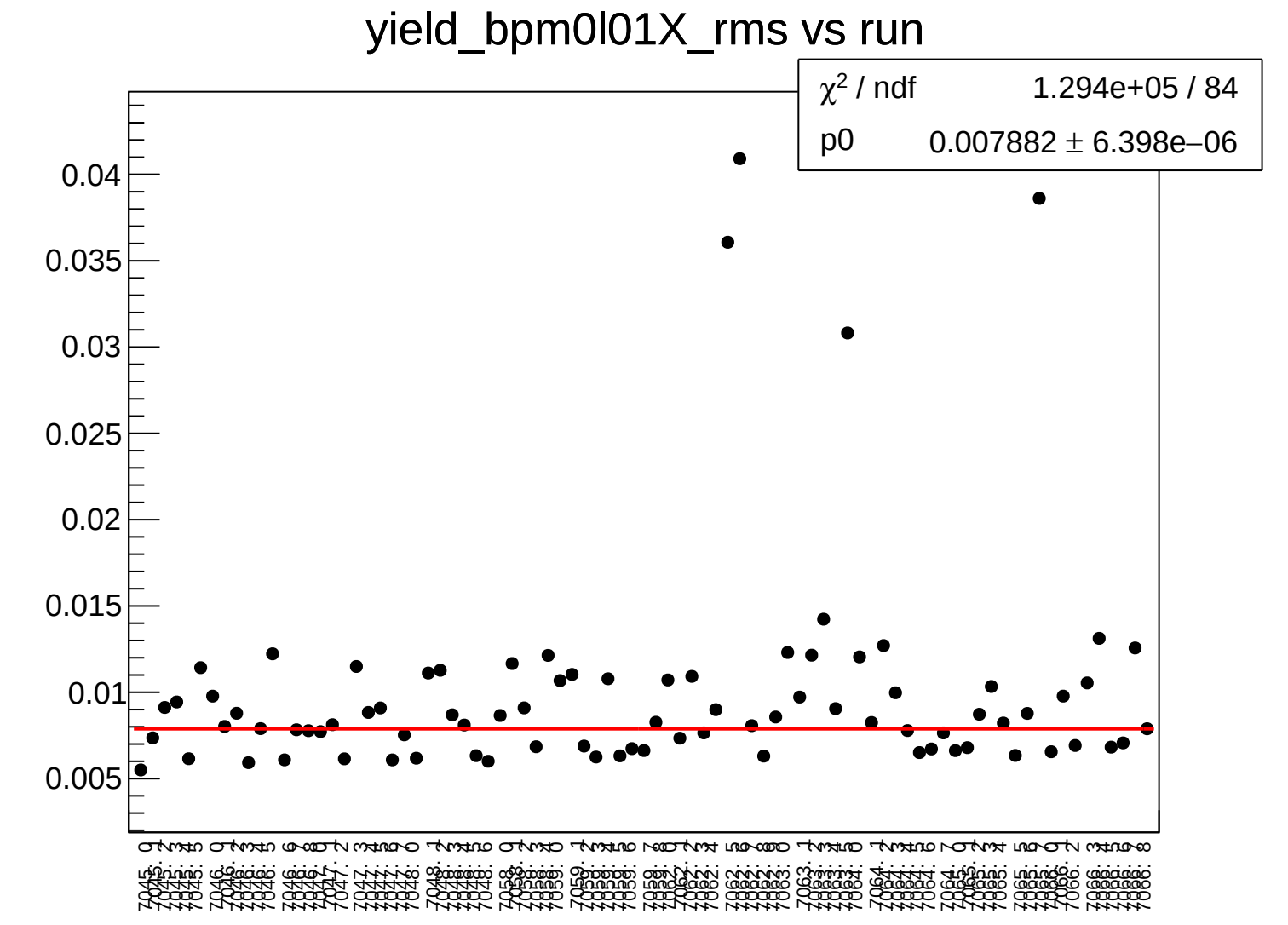

yield_bpm0i01aY_mean vs run
χ² / ndf 2.639e+06 / 84
p0 2.67 ± 3.275e−06
2.68
2.675
2.67
2.665
2.66
pull
Entries 85
Mean −377.6
Std Dev 0
300
200
100
0
−100
−200
−300
−400

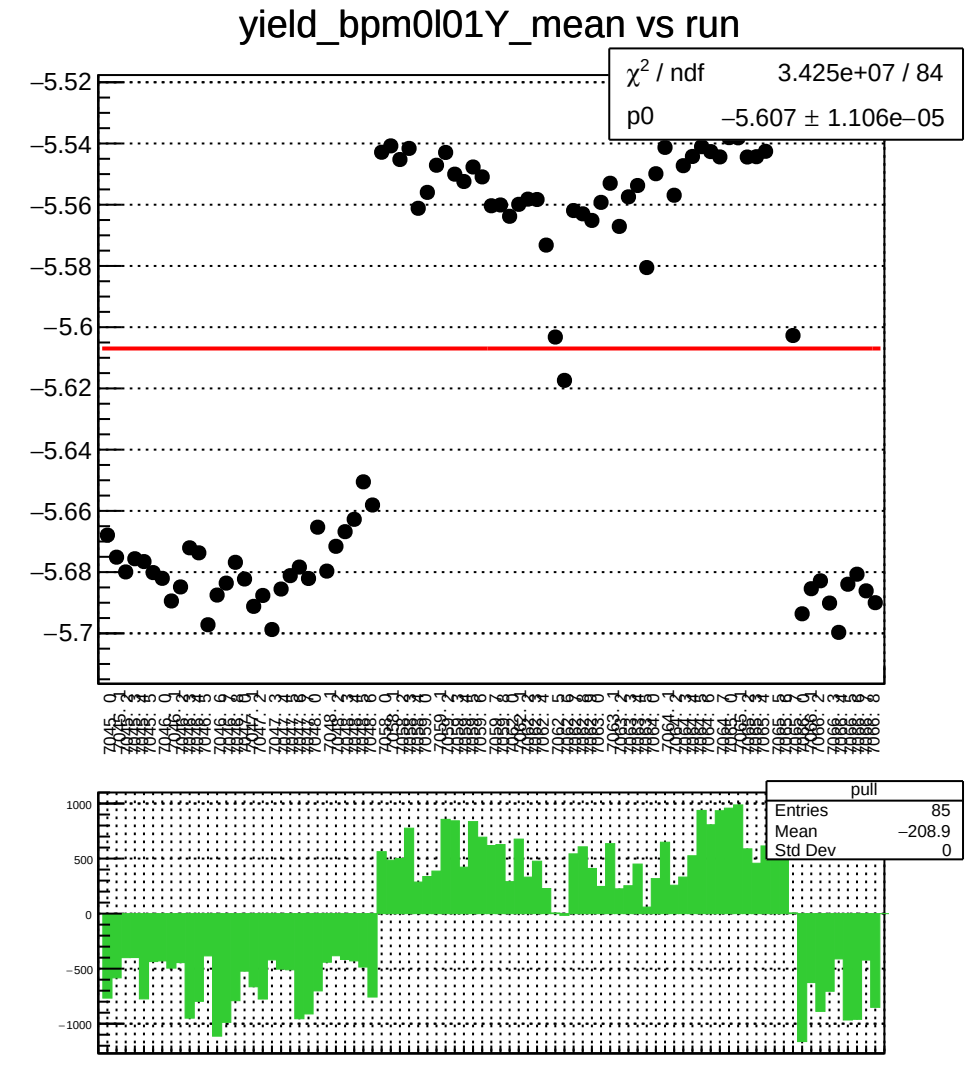

pull1D
Entries 85
Mean 0.5594
Std Dev 1.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

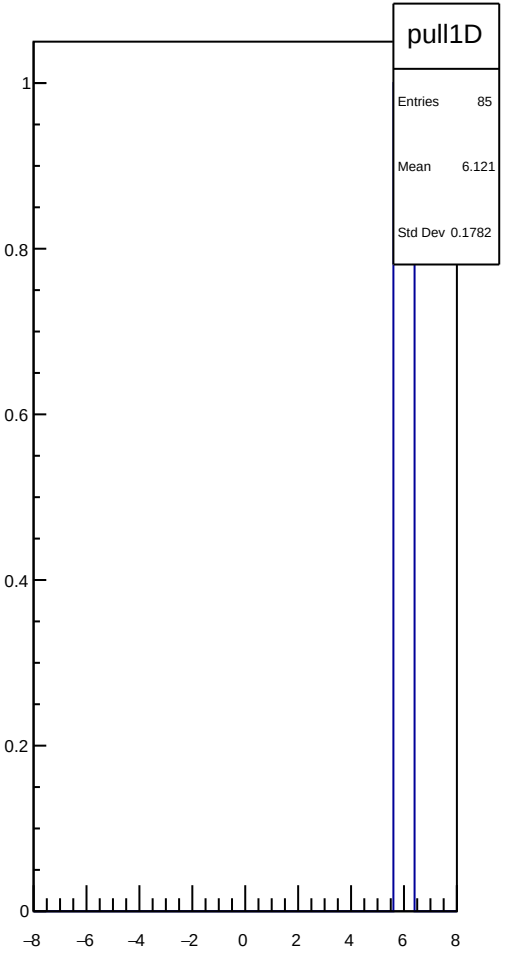

yield_bpm0i01aY_rms vs run
χ² / ndf 4.296e+04 / 84
p0 0.002933 ± 2.316e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

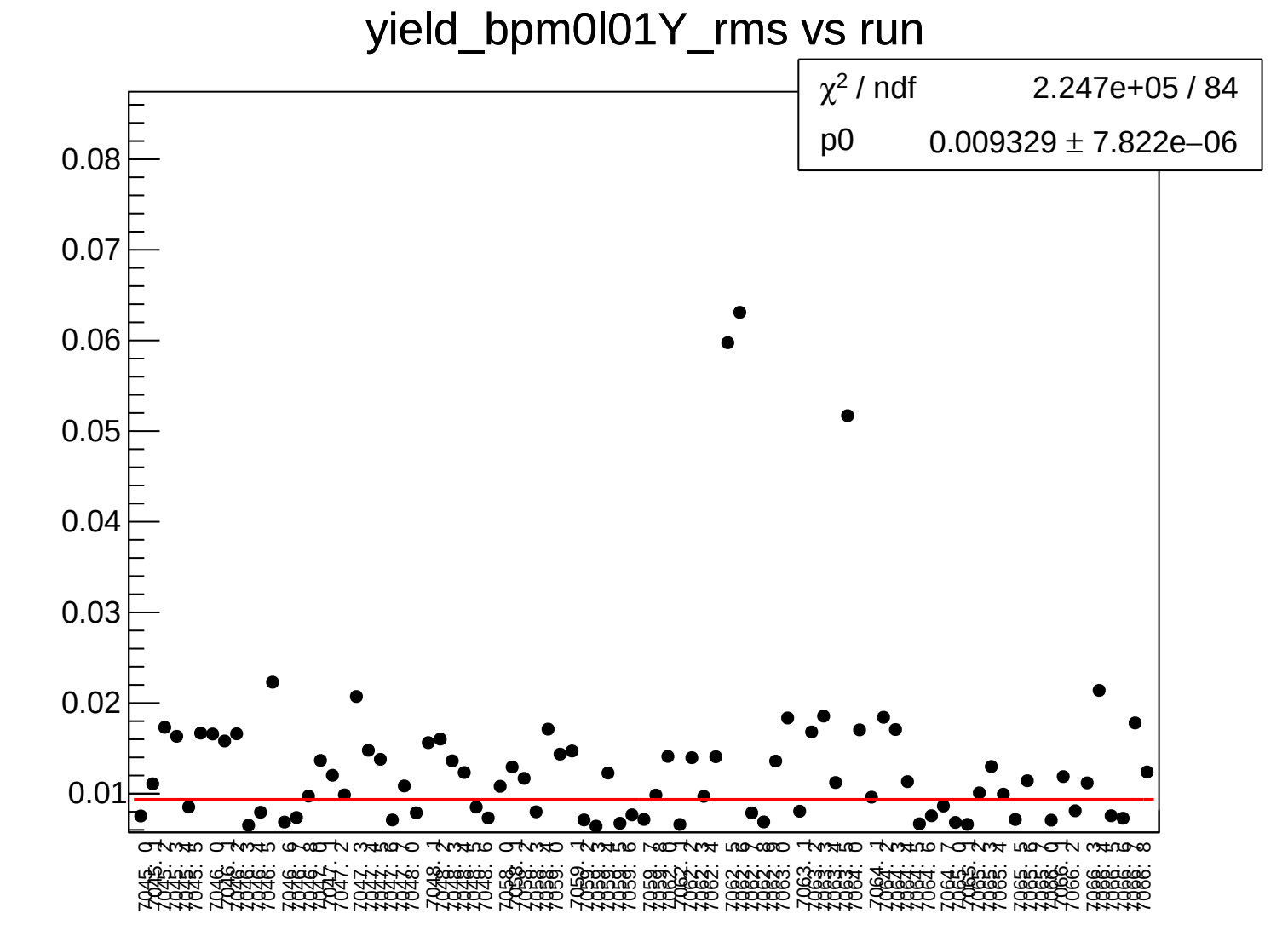

yield_bpm0l01X_mean vs run
χ² / ndf 3.098e+07 / 84
p0 −1.115 ± 9.048e−06
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 85
Mean 289.5
Std Dev 0
1000
500
0
−500
−1000

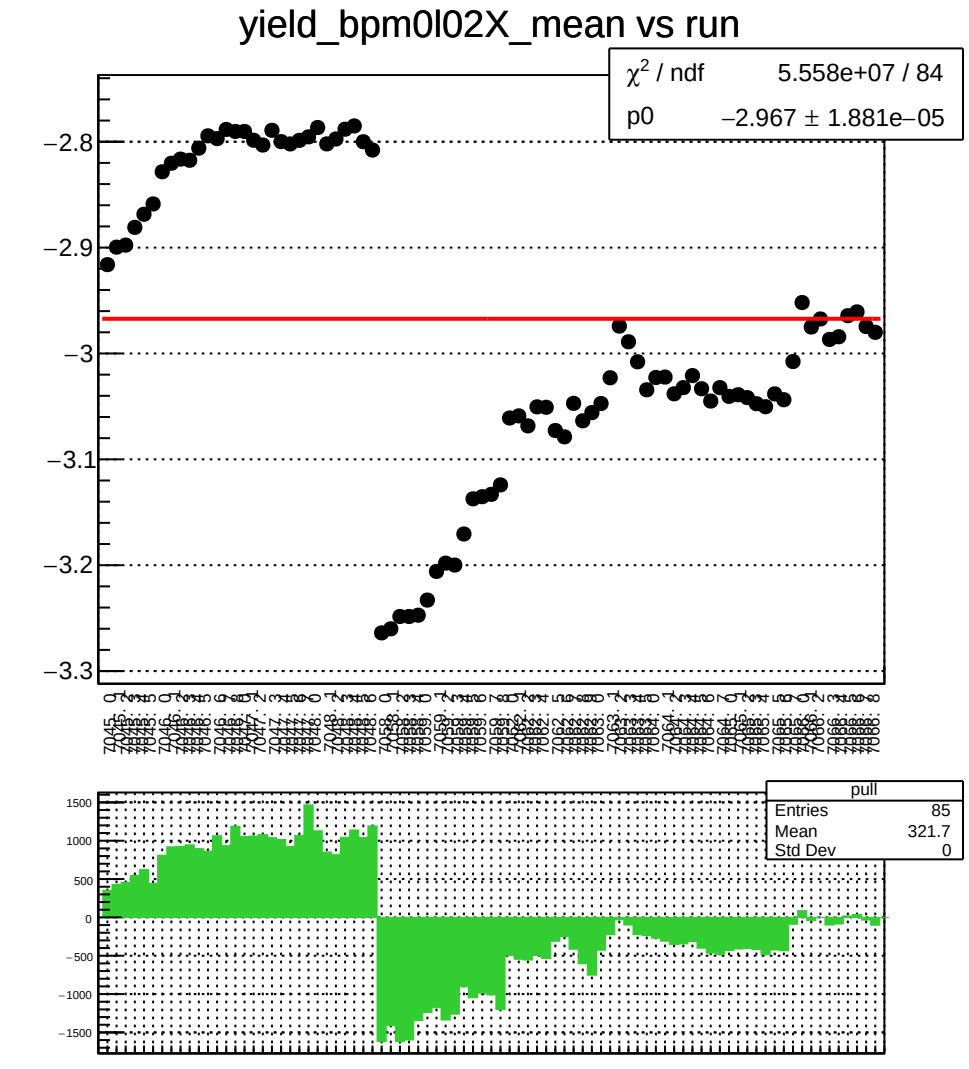

pull1D
Entries 85
Mean −0.689
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

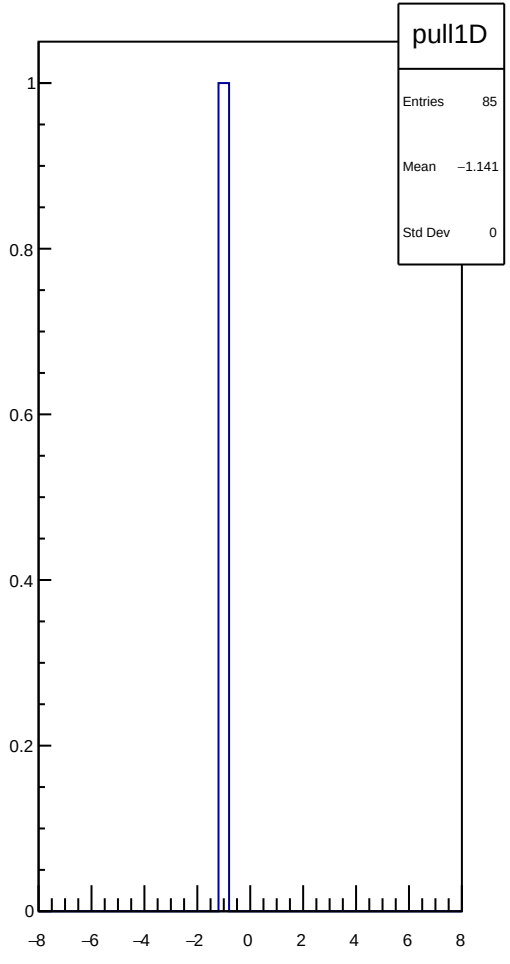

yield_bpm0l01X_rms vs run
χ² / ndf 1.294e+05 / 84
p0 0.007882 ± 6.398e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

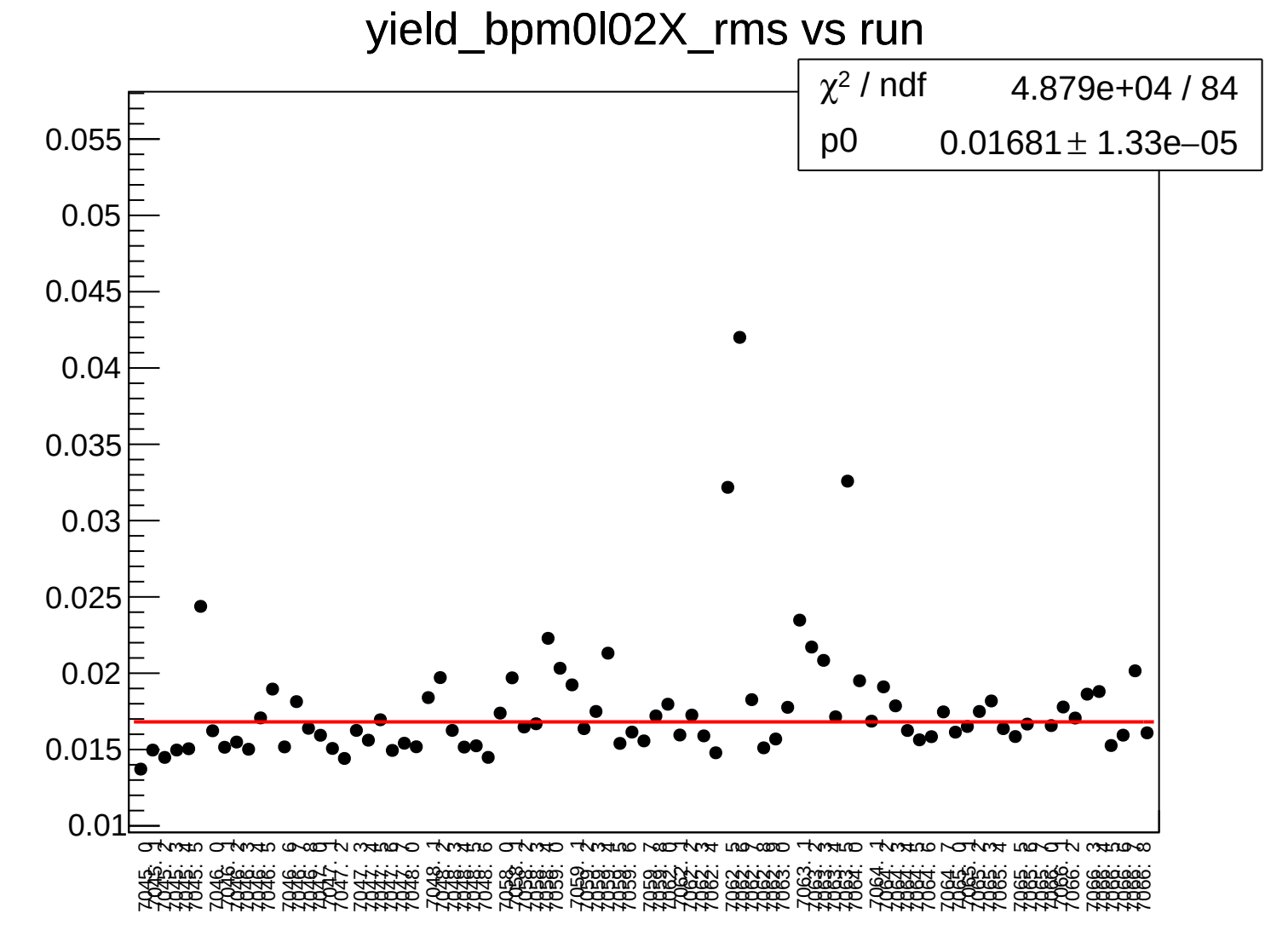

yield_bpm0l01Y_mean vs run
χ² / ndf 3.425e+07 / 84
p0 −5.607 ± 1.106e−05
−5.52
−5.54
−5.56
−5.58
−5.6
−5.62
−5.64
−5.66
−5.68
−5.7
pull
Entries 85
Mean −208.9
Std Dev 0
1000
500
0
−500
−1000

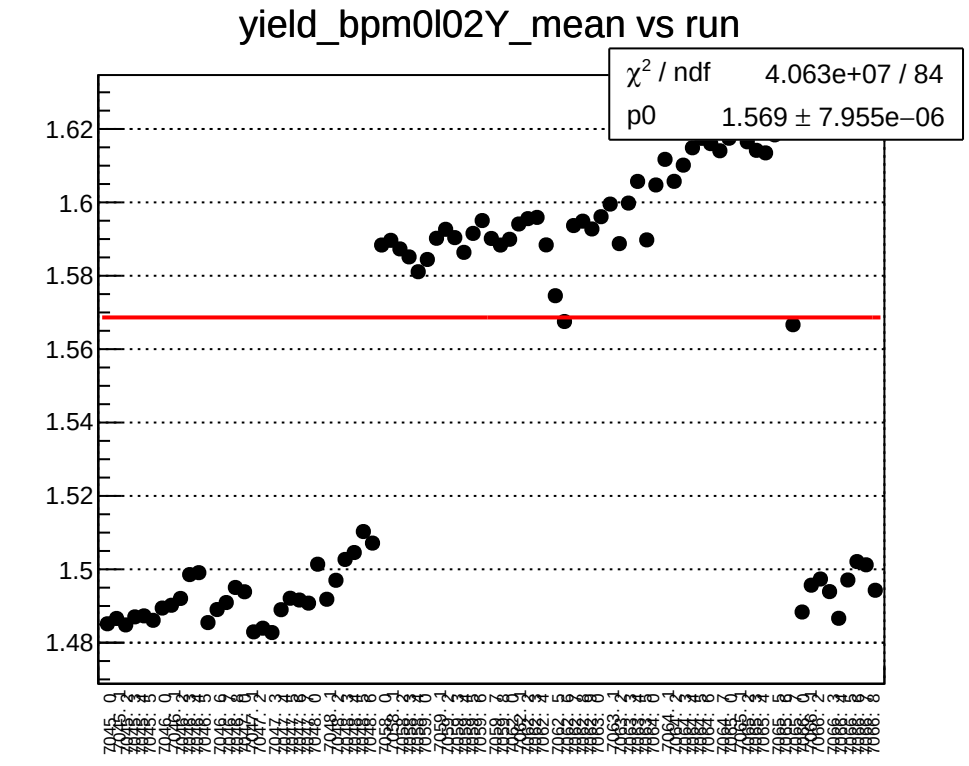

pull1D
Entries 85
Mean 6.121
Std Dev 0.1782
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

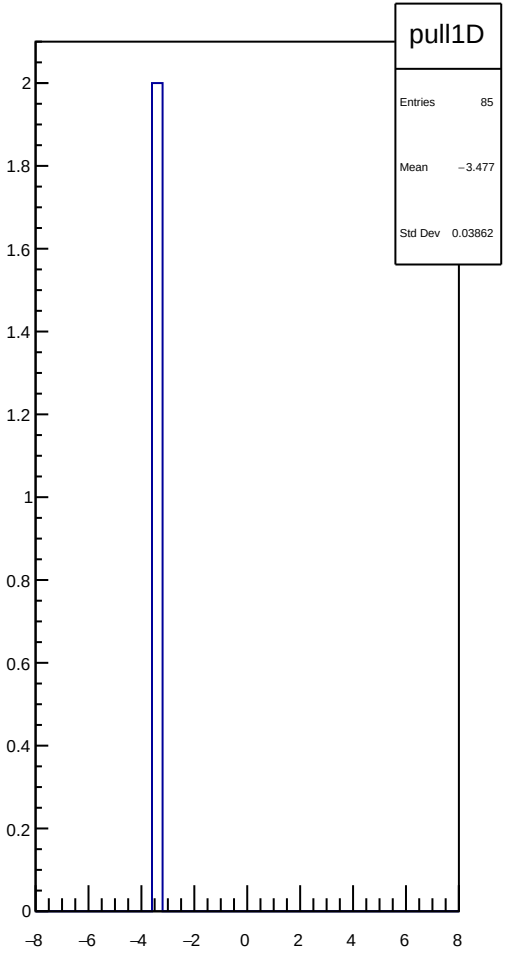

yield_bpm0l01Y_rms vs run
χ² / ndf 2.247e+05 / 84
p0 0.009329 ± 7.822e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

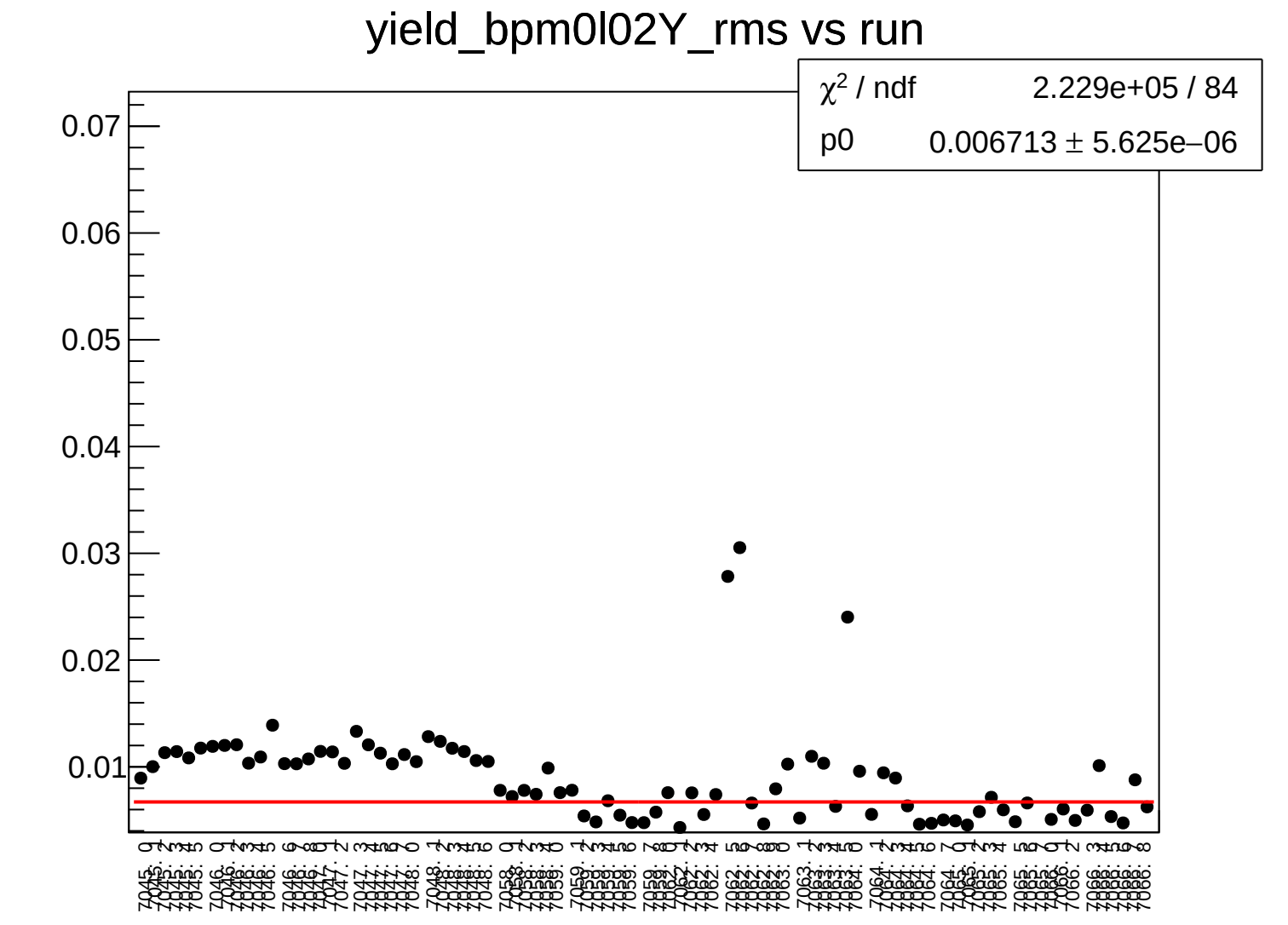

yield_bpm0l02X_mean vs run
χ² / ndf 5.558e+07 / 84
p0 −2.967 ± 1.881e−05
−2.8
−2.9
−3
−3.1
−3.2
−3.3
pull
Entries 85
Mean 321.7
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

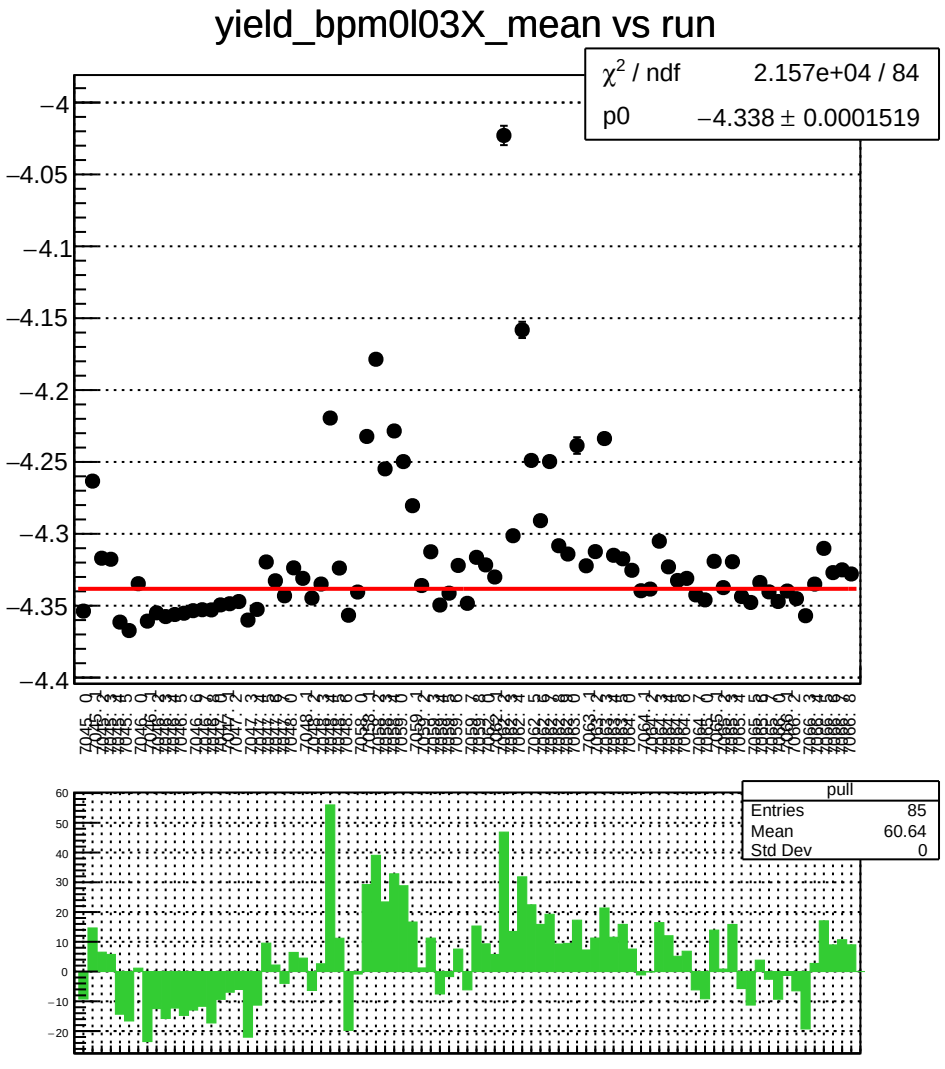

pull1D
Entries 85
Mean −1.141
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

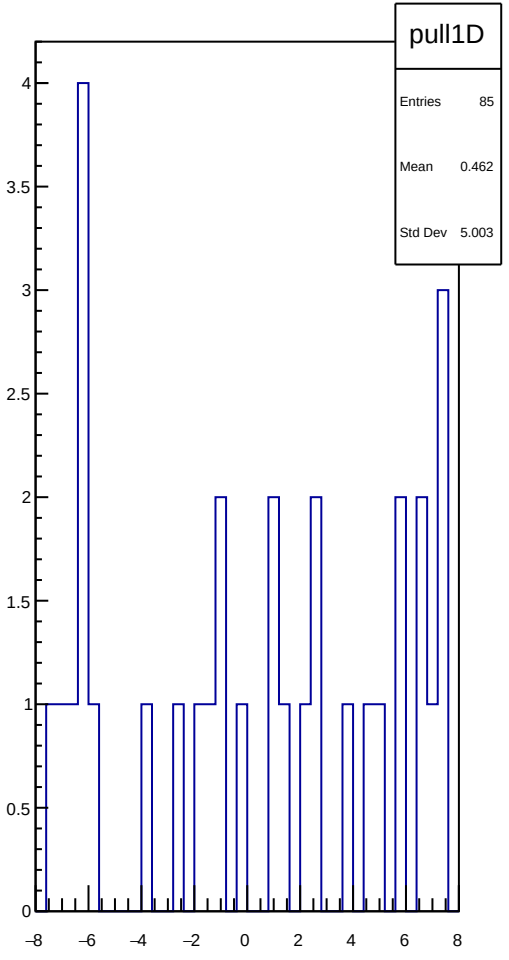

yield_bpm0l02X_rms vs run
χ² / ndf 4.879e+04 / 84
p0 0.01681 ± 1.33e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

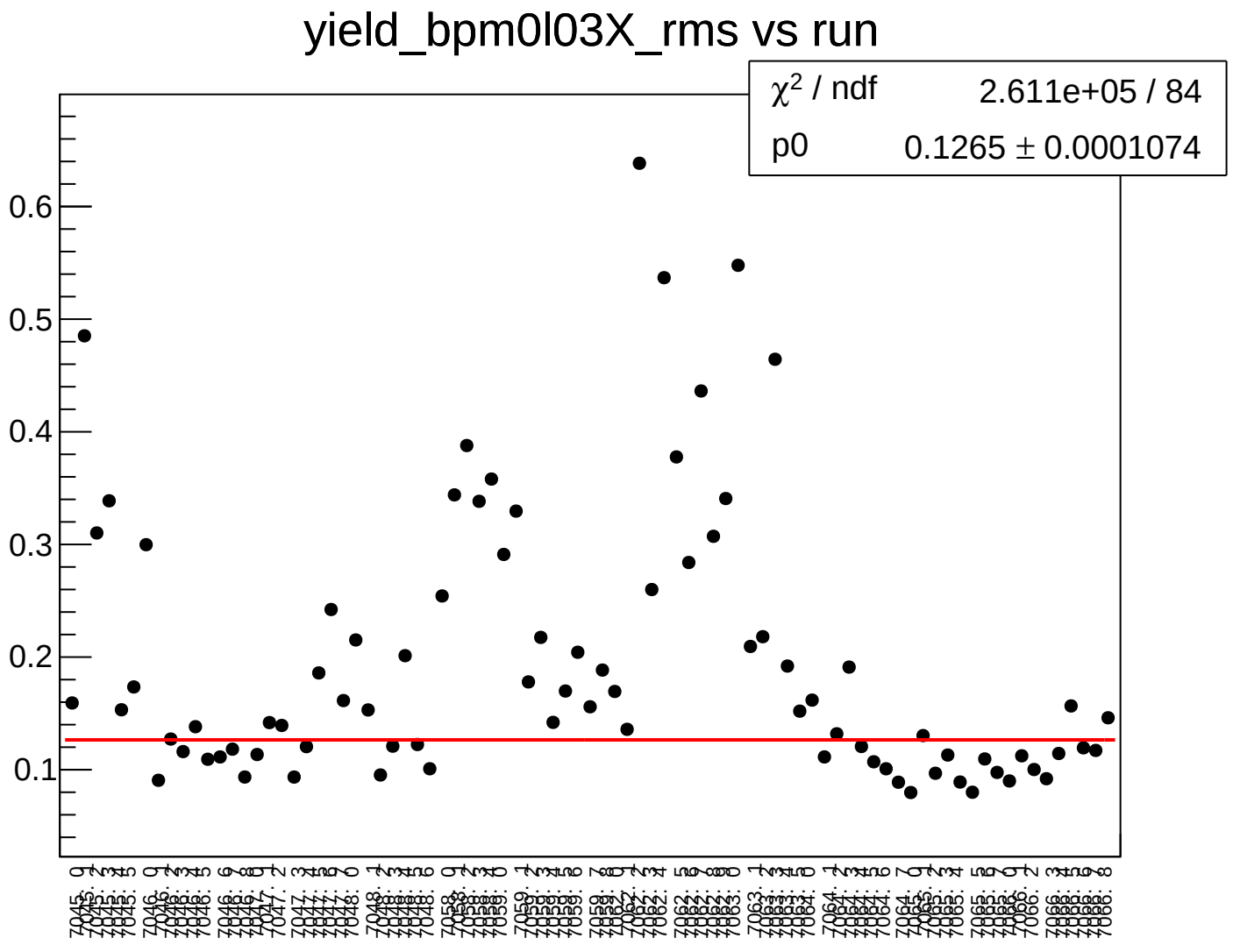

yield_bpm0l02Y_mean vs run
χ² / ndf 4.063e+07 / 84
p0 1.569 ± 7.955e−06
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
pull
Entries 85
Mean −7.008
Std Dev 9.217
1000
500
0
−500
−1000
−1500

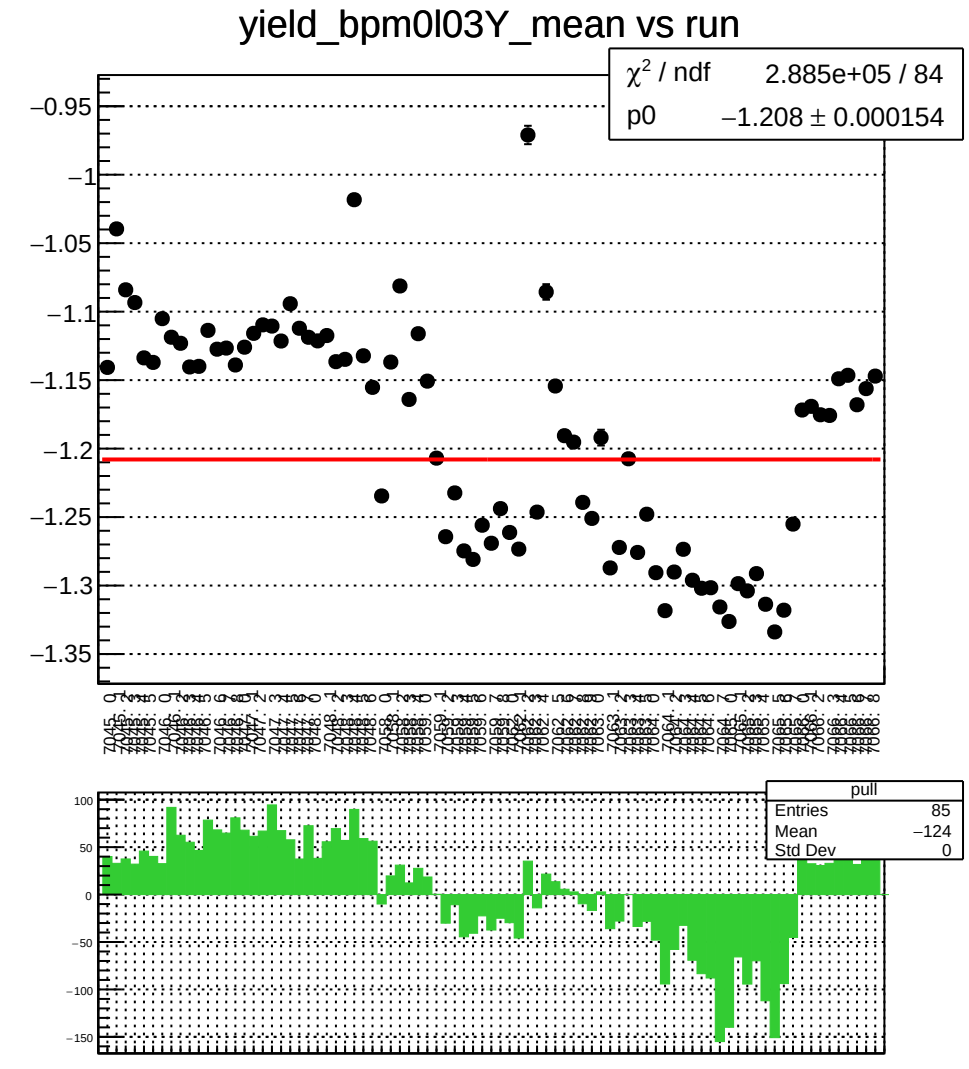

pull1D
Entries 85
Mean −3.477
Std Dev 0.03862
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

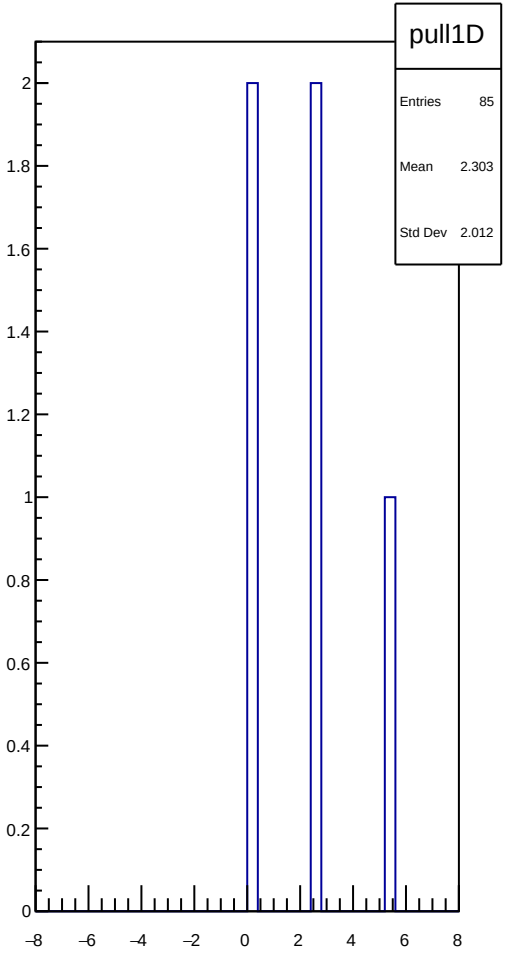

yield_bpm0l02Y_rms vs run
χ² / ndf 2.229e+05 / 84
p0 0.006713 ± 5.625e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

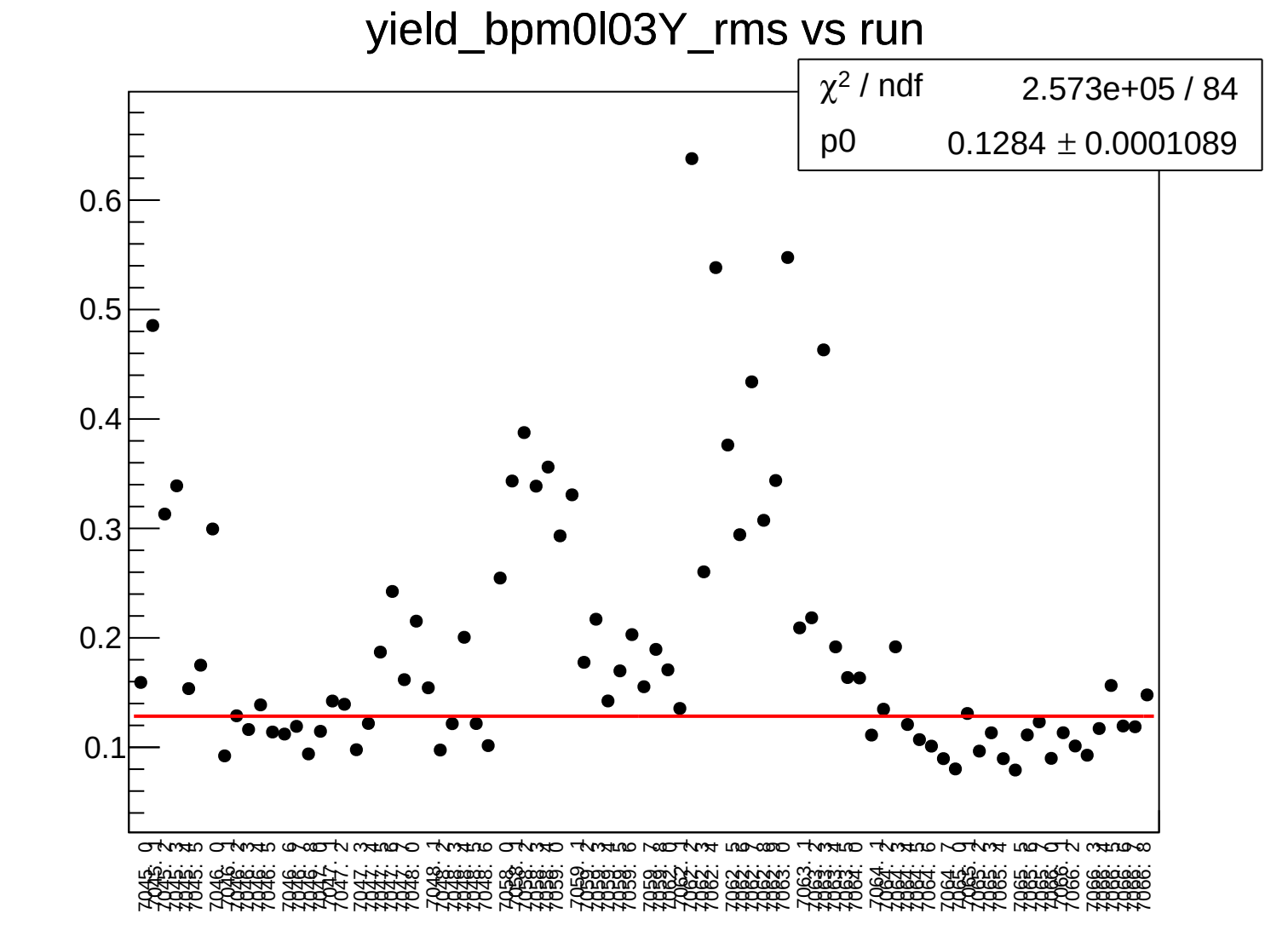

yield_bpm0l03X_mean vs run
χ² / ndf 2.157e+04 / 84
p0 −4.338 ± 0.0001519
−4
−4.05
−4.1
−4.15
−4.2
−4.25
−4.3
−4.35
−4.4
pull
Entries 85
Mean 60.64
Std Dev 0
60
50
40
30
20
10
0
−10
−20

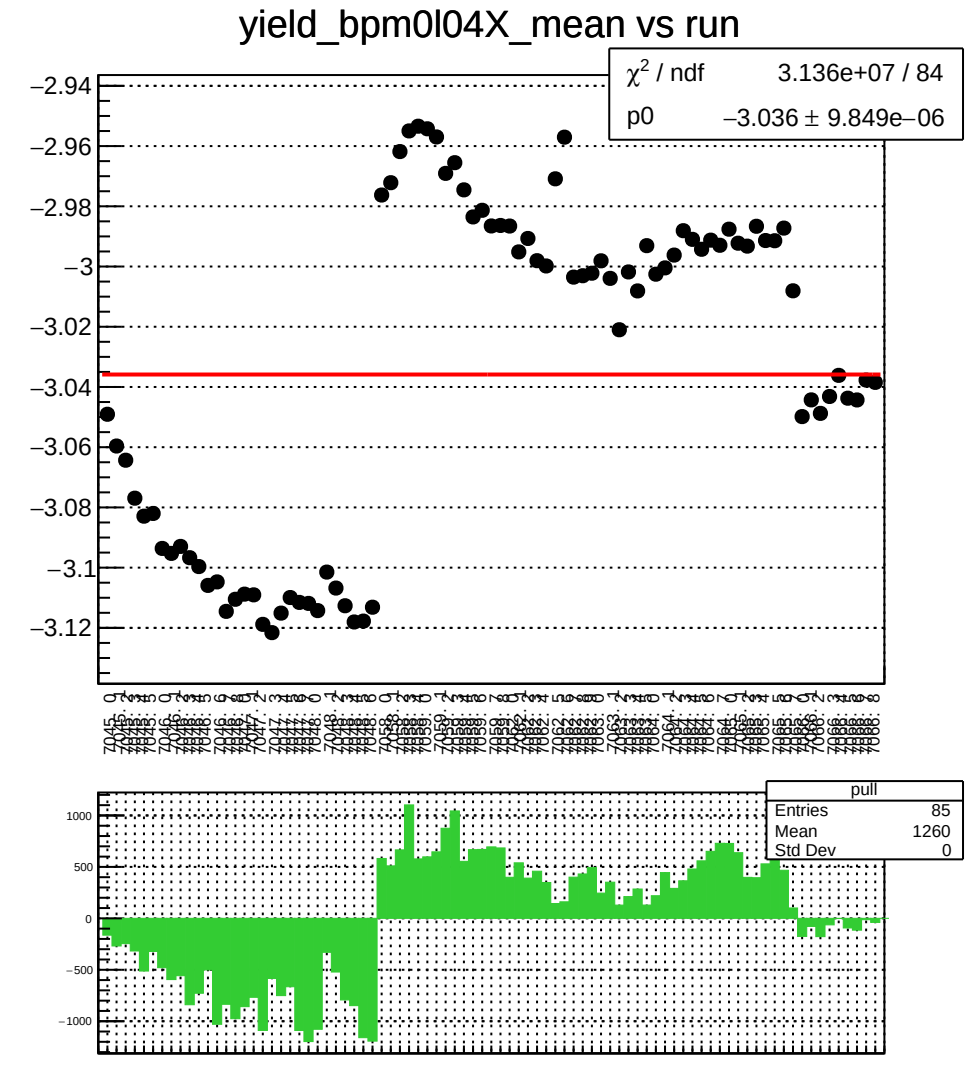

pull1D
Entries 85
Mean 0.462
Std Dev 5.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

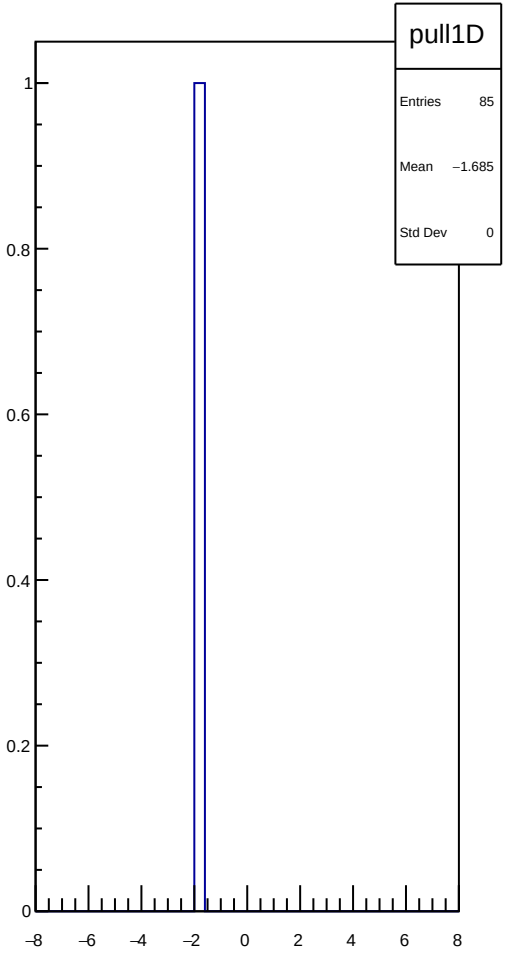

yield_bpm0l03X_rms vs run
χ² / ndf 2.611e+05 / 84
p0 0.1265 ± 0.0001074
0.6
0.5
0.4
0.3
0.2
0.1

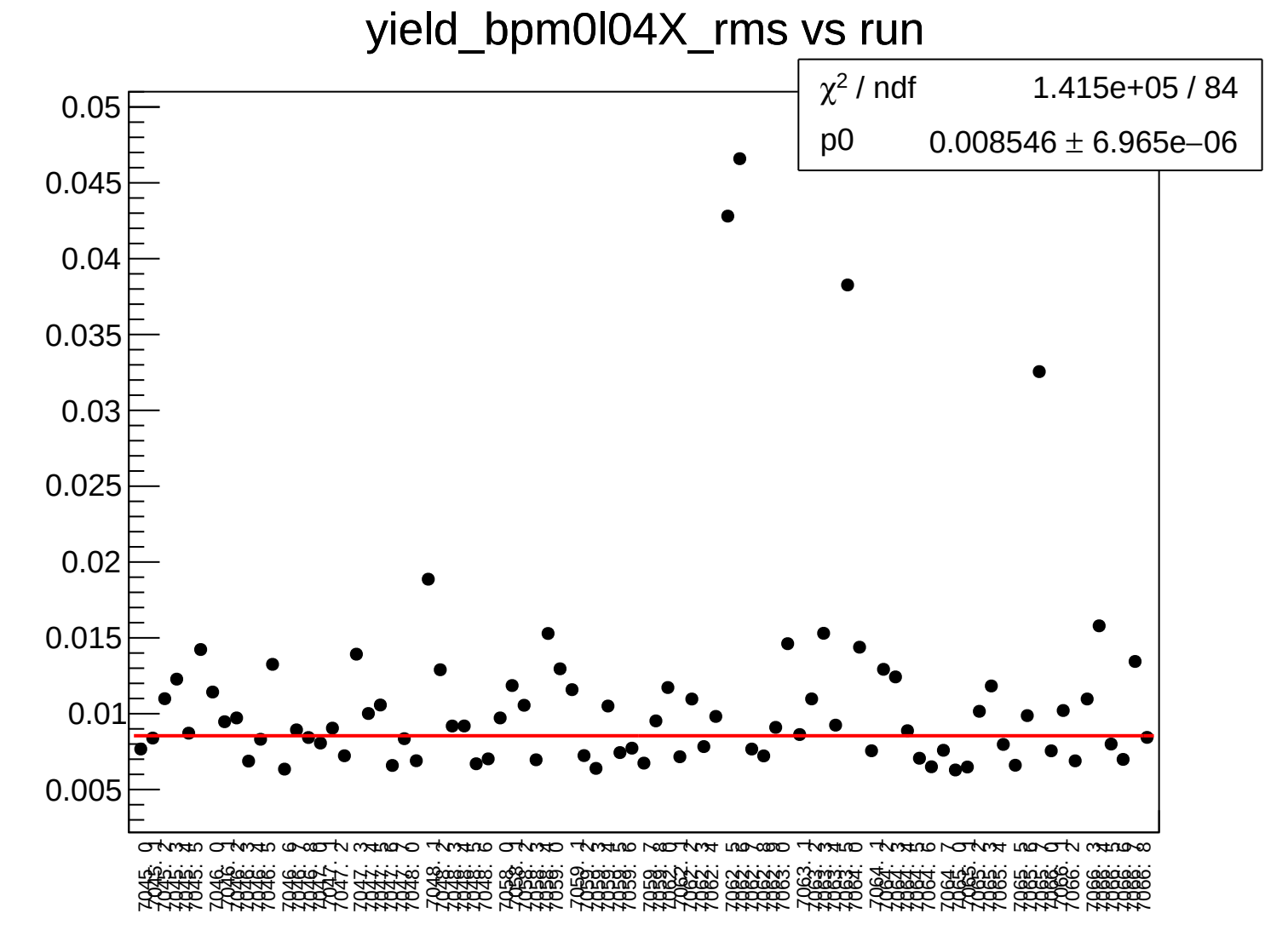

yield_bpm0l03Y_mean vs run
χ² / ndf 2.885e+05 / 84
p0 −1.208 ± 0.000154
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 85
Mean −124
Std Dev 0
100
50
0
−50
−100
−150

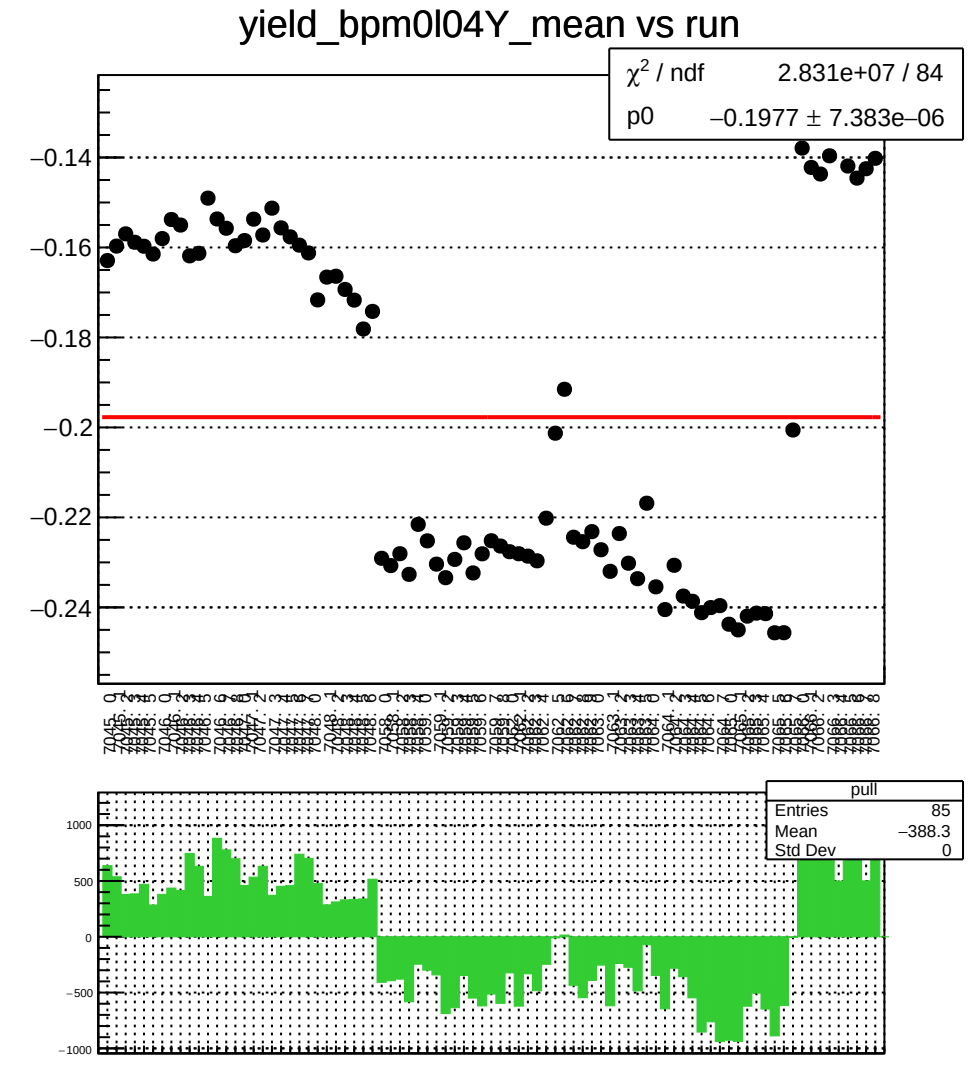

pull1D
Entries 85
Mean 2.303
Std Dev 2.012
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

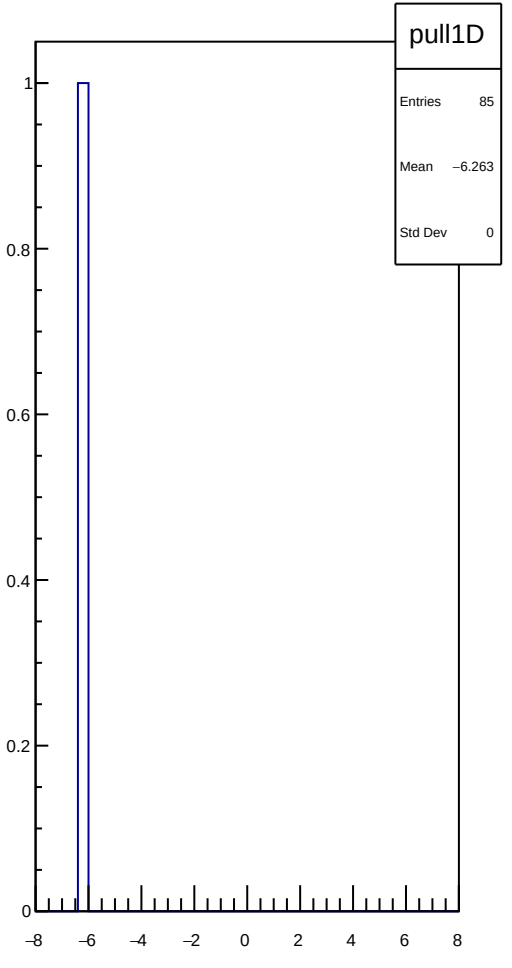

yield_bpm0l03Y_rms vs run
χ² / ndf 2.573e+05 / 84
p0 0.1284 ± 0.0001089
0.6
0.5
0.4
0.3
0.2
0.1

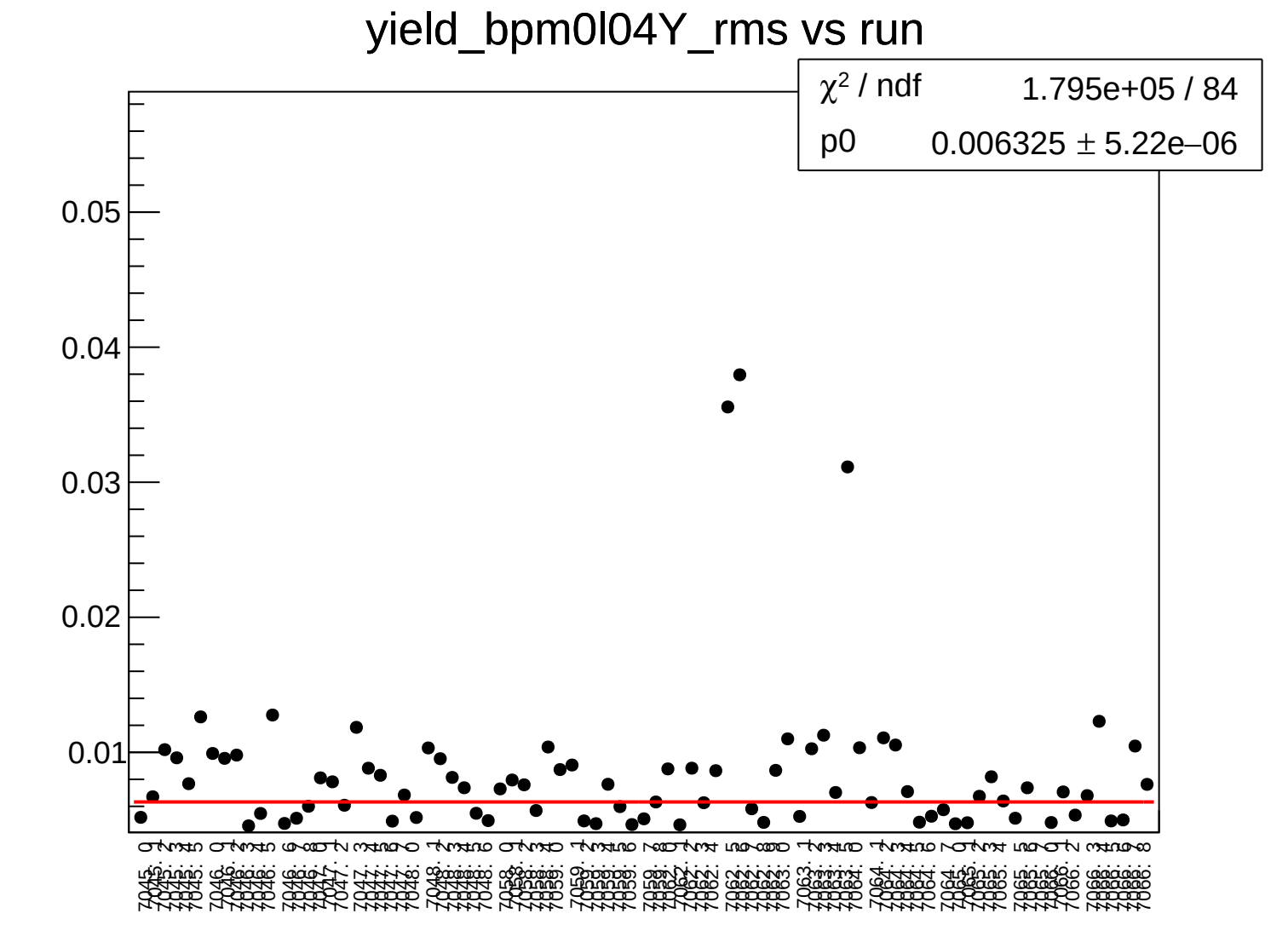

yield_bpm0l04X_mean vs run
χ² / ndf 3.136e+07 / 84
p0 −3.036 ± 9.849e−06
−2.94
−2.96
−2.98
−3
−3.02
−3.04
−3.06
−3.08
−3.1
−3.12
pull
Entries 85
Mean 1260
Std Dev 0
1000
500
0
−500
−1000

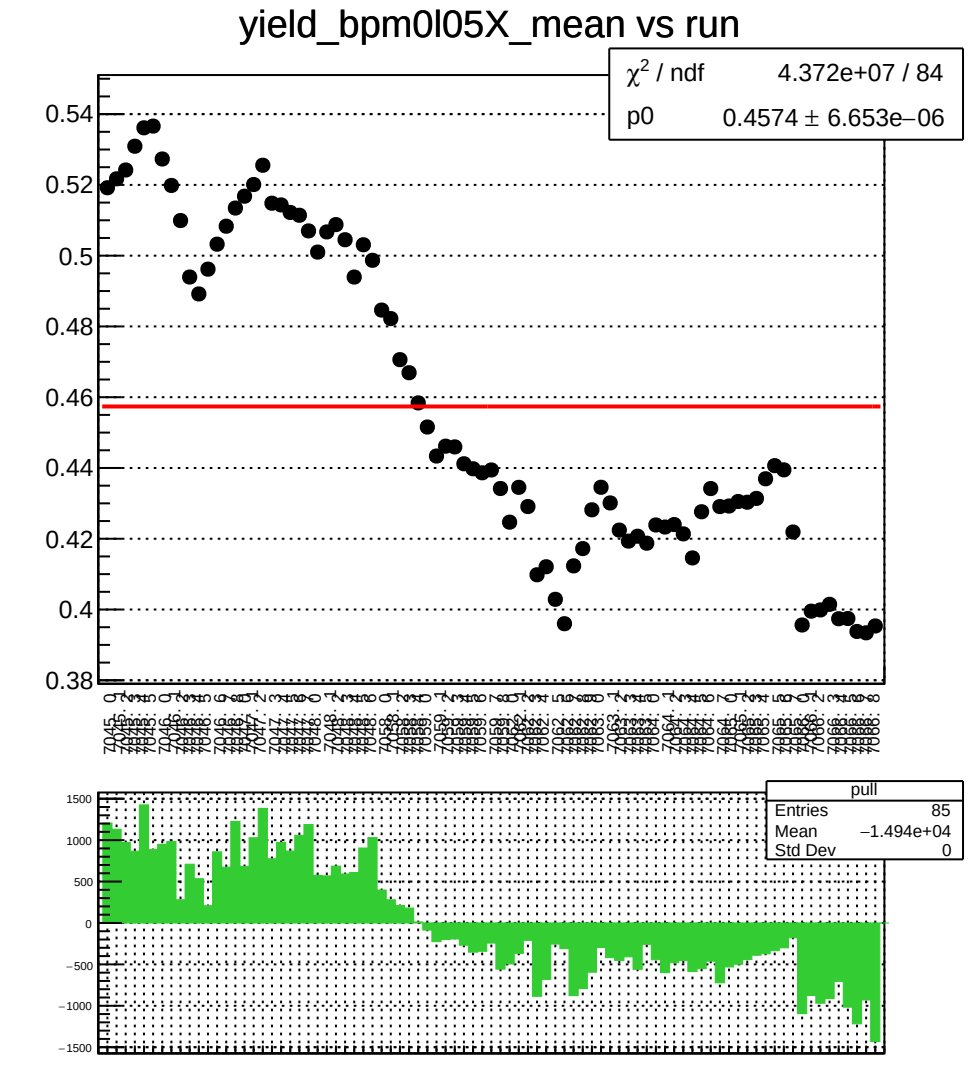

pull1D
Entries 85
Mean −1.685
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

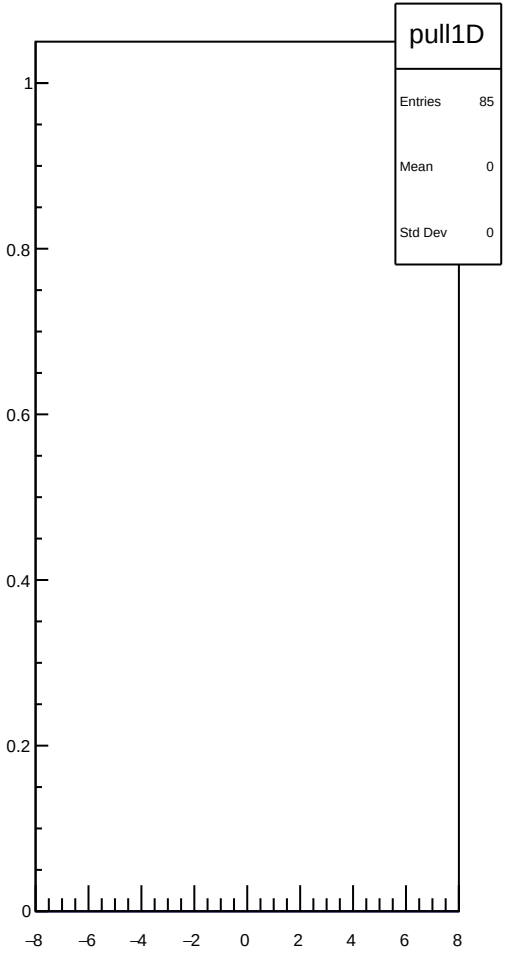

yield_bpm0l04X_rms vs run
χ^2 / ndf 1.415e+05 / 84
p0 0.008546 ± 6.965e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

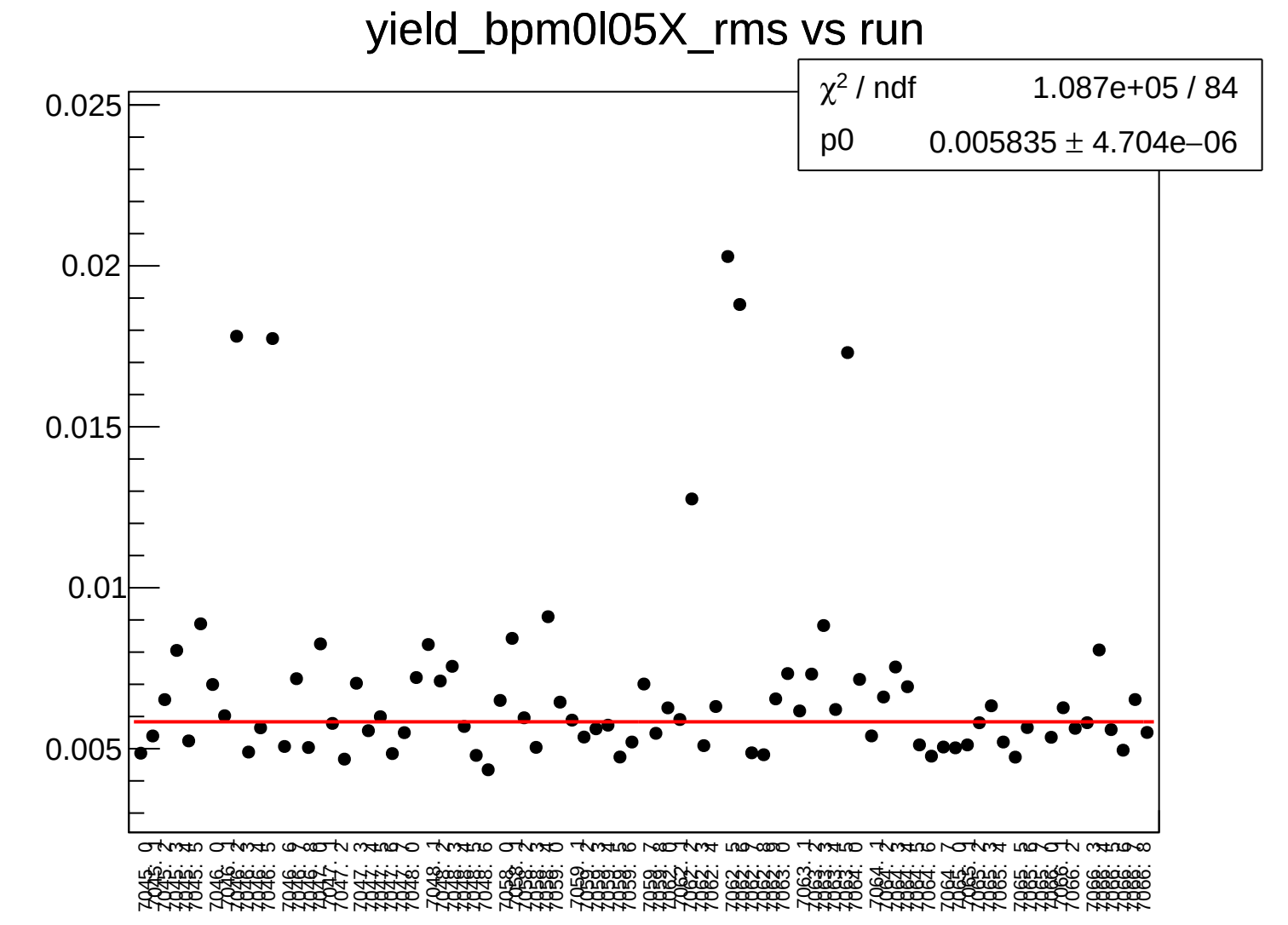

yield_bpm0l04Y_mean vs run
χ² / ndf 2.831e+07 / 84
p0 −0.1977 ± 7.383e−06
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
pull
Entries 85
Mean −388.3
Std Dev 0
1000
500
0
−500
−1000

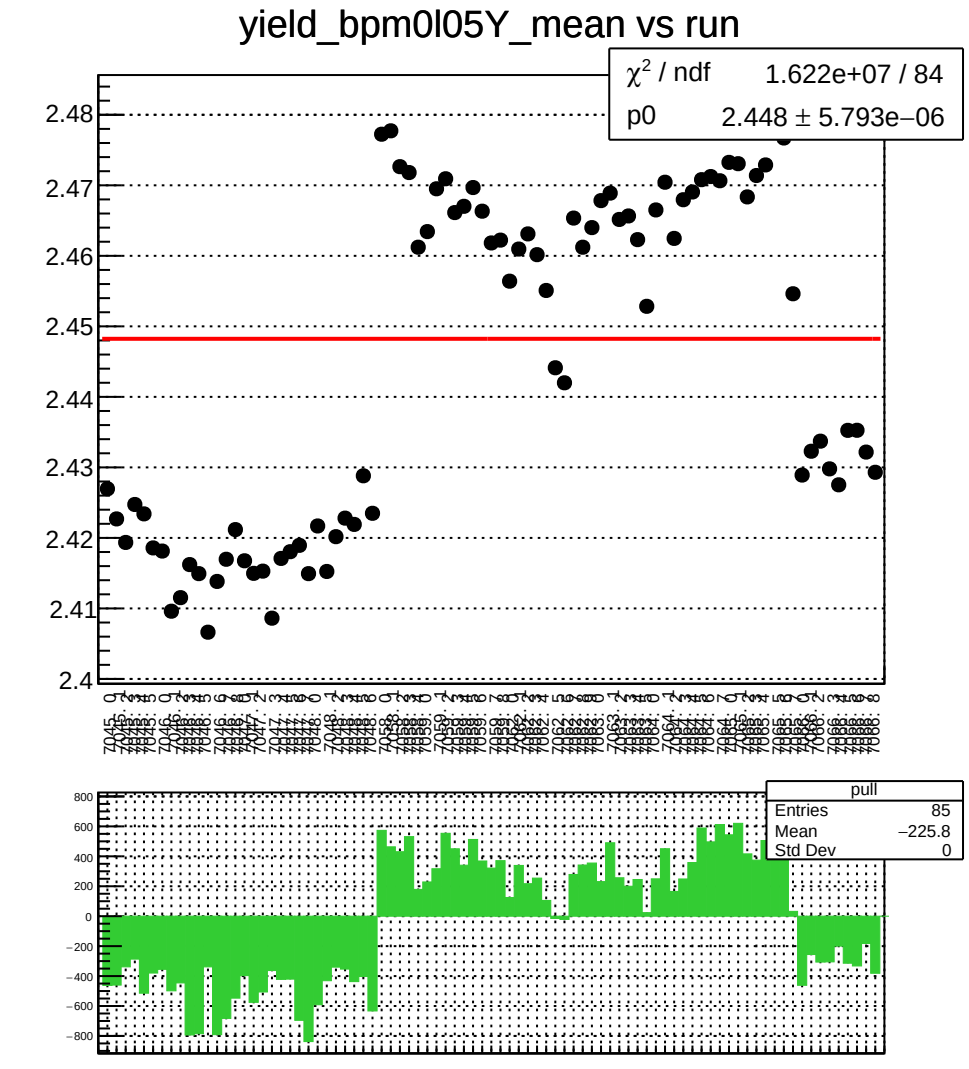

pull1D
Entries 85
Mean −6.263
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

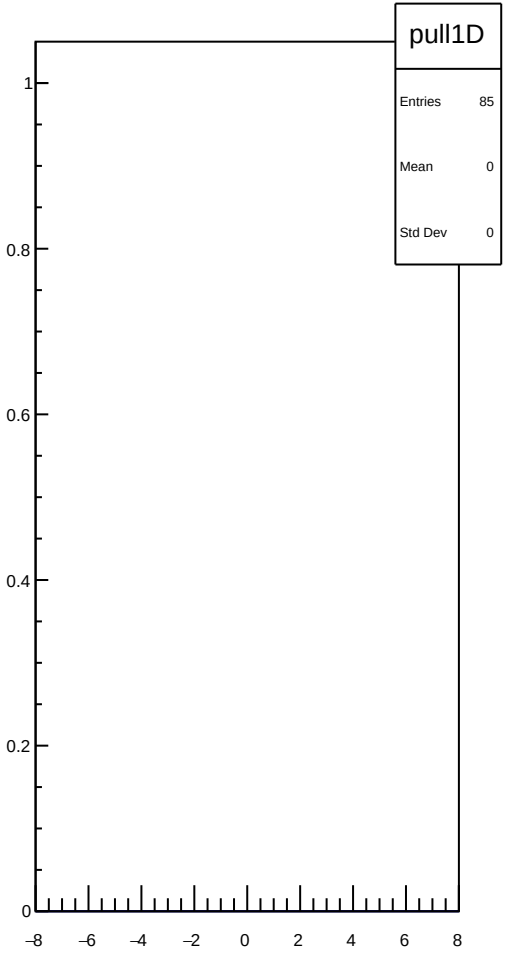

yield_bpm0l04Y_rms vs run
χ² / ndf 1.795e+05 / 84
p0 0.006325 ± 5.22e–06
0.05
0.04
0.03
0.02
0.01

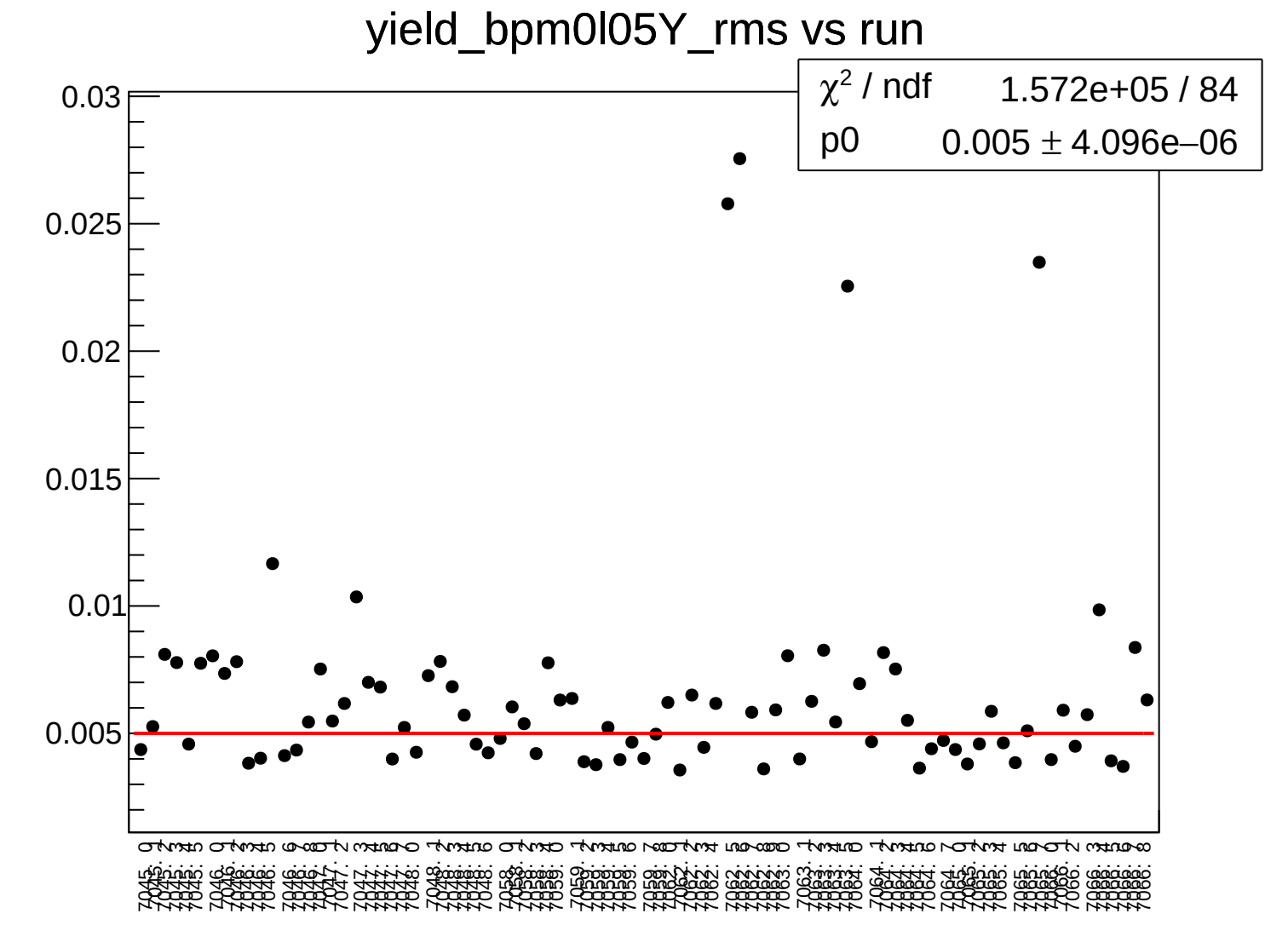

yield_bpm0l05X_mean vs run
χ² / ndf 4.372e+07 / 84
p0 0.4574 ± 6.653e−06
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 85
Mean −1.494e+04
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

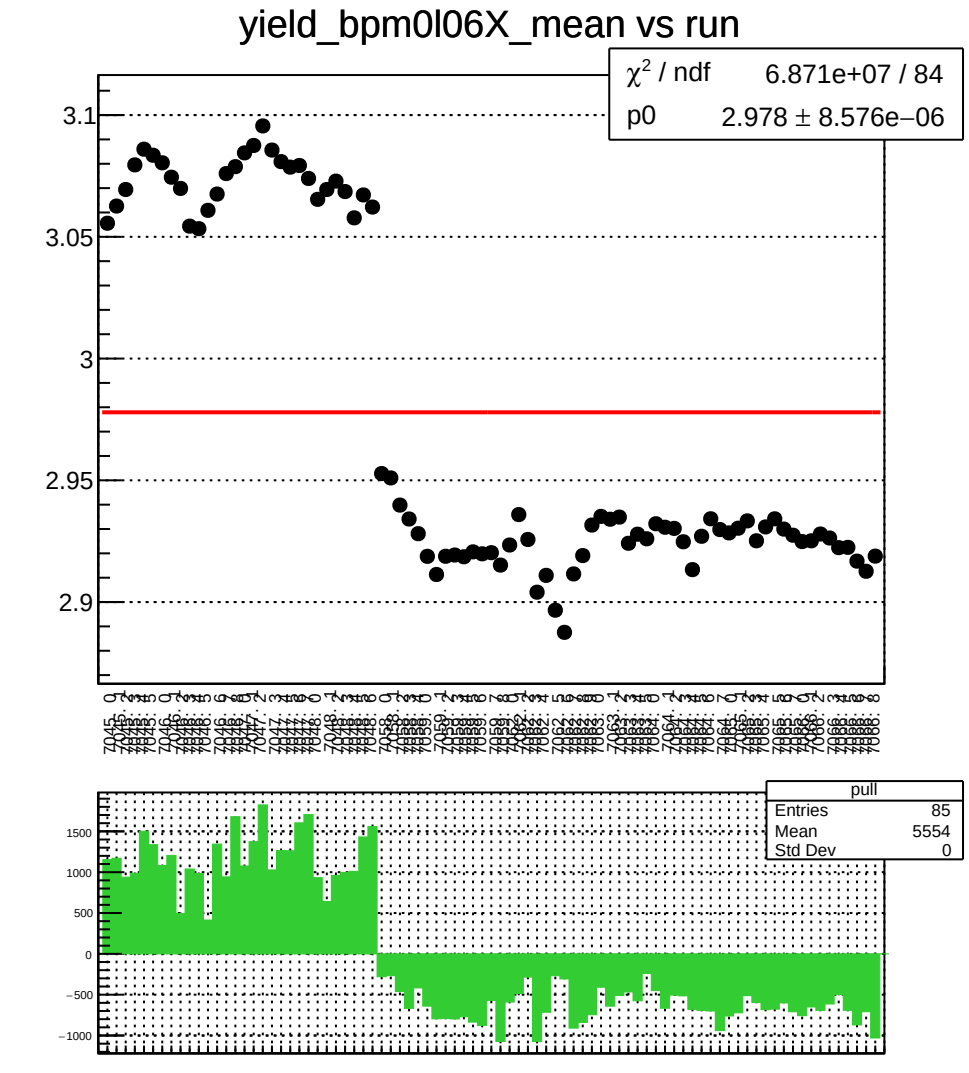

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

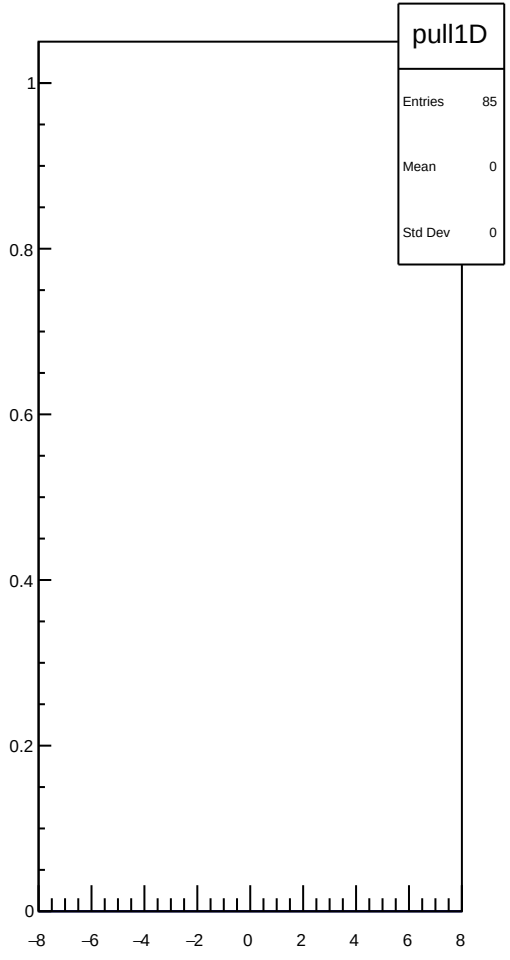

yield_bpm0l05X_rms vs run
χ² / ndf 1.087e+05 / 84
p0 0.005835 ± 4.704e−06
0.025
0.02
0.015
0.01
0.005

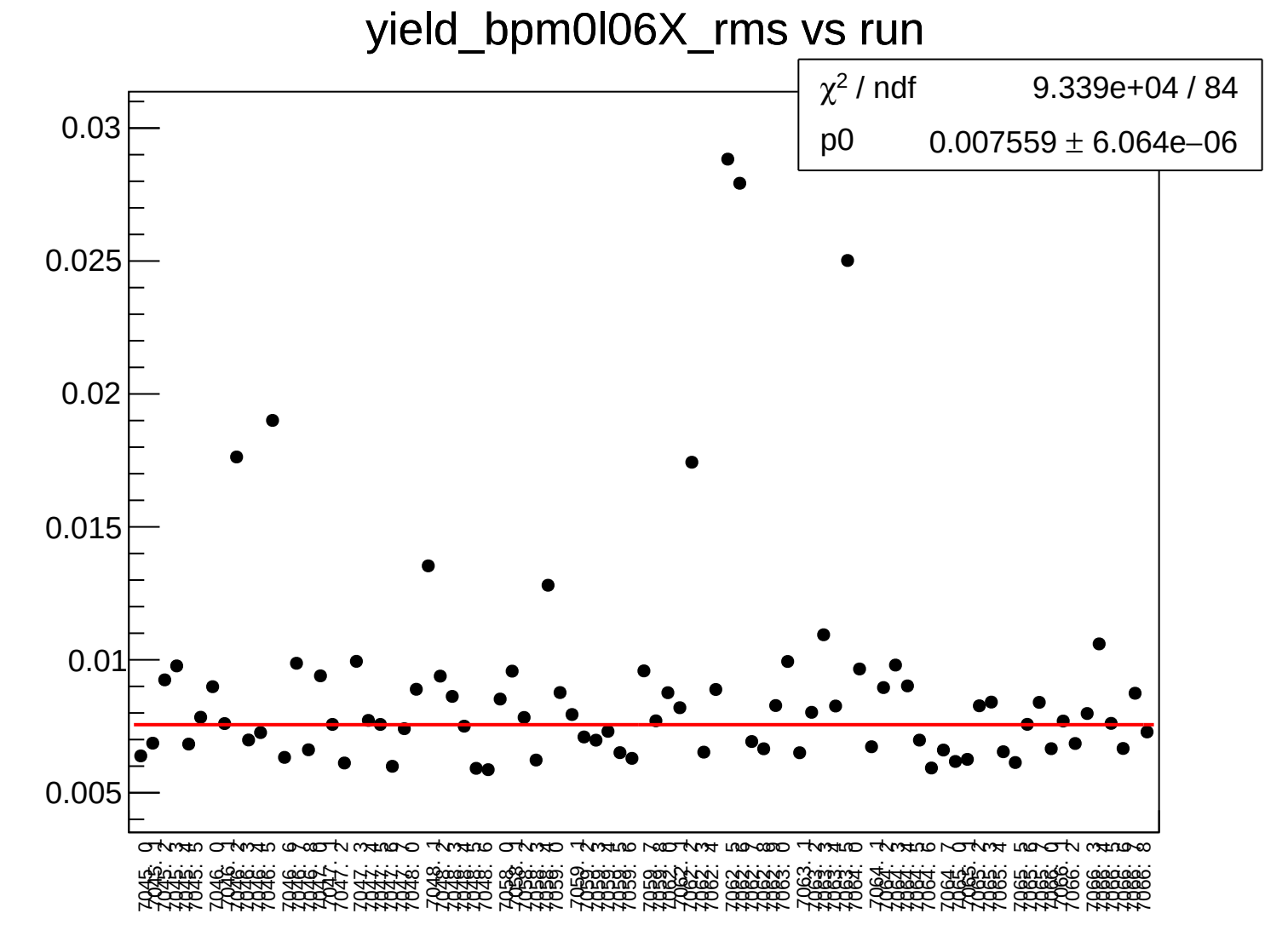

yield_bpm0l05Y_mean vs run
χ² / ndf 1.622e+07 / 84
p0 2.448 ± 5.793e−06
2.48
2.47
2.46
2.45
2.44
2.43
2.42
2.41
2.4
pull
Entries 85
Mean −225.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

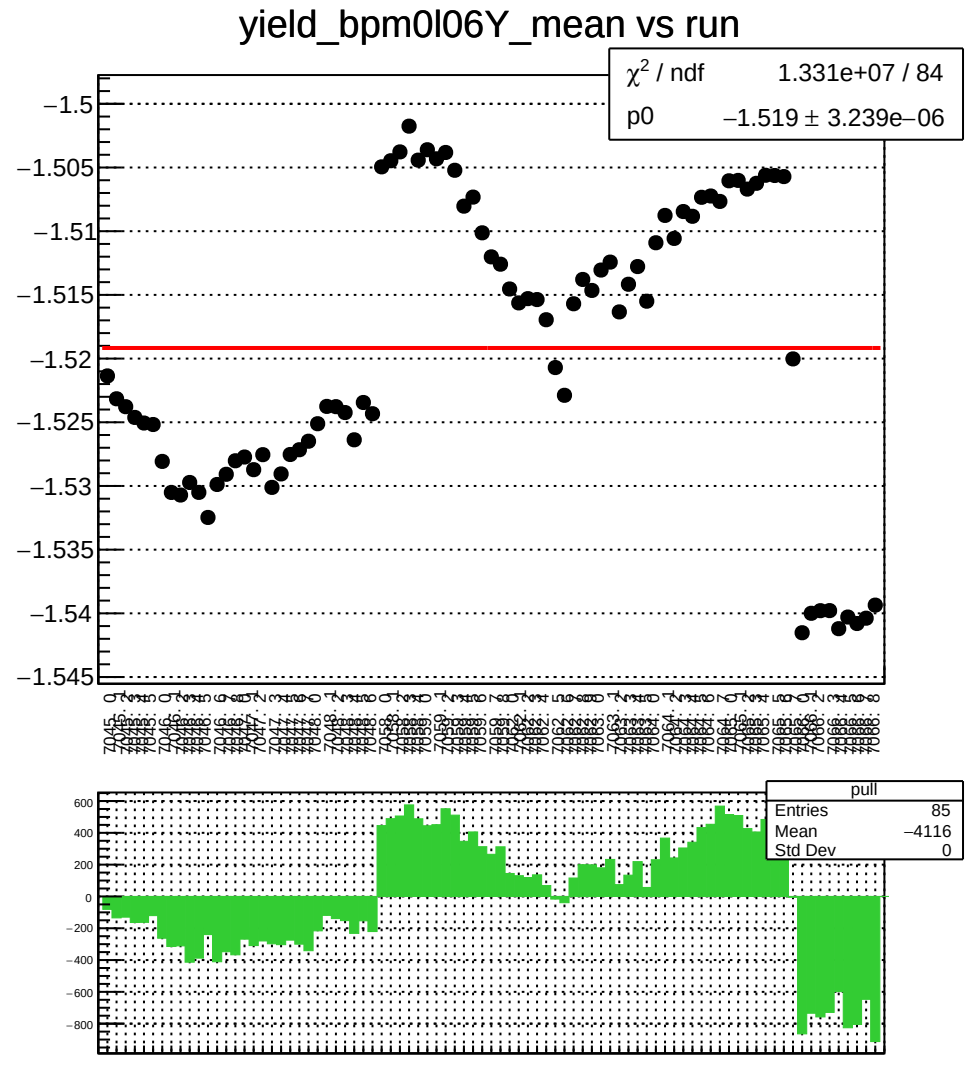

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

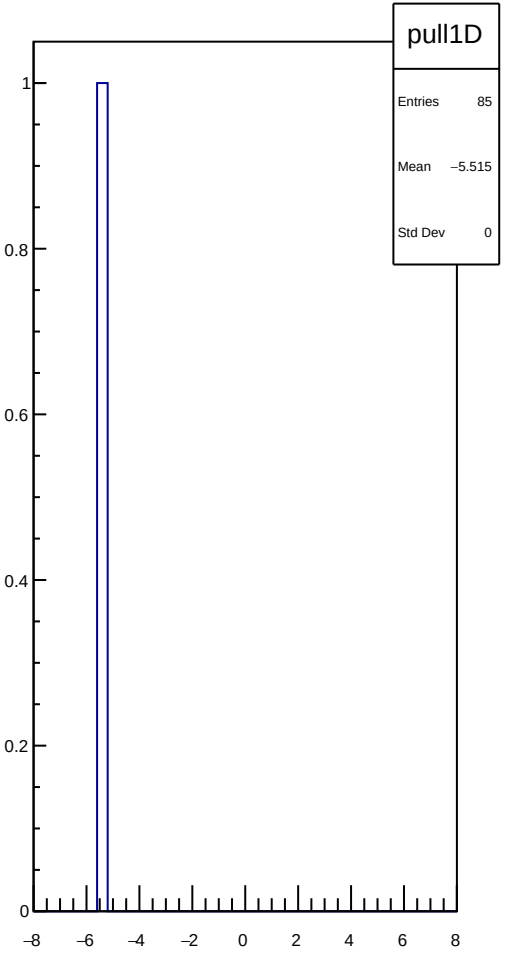

yield_bpm0l05Y_rms vs run
χ^2 / ndf 1.572e+05 / 84
p0 0.005 ± 4.096e−06
0.03
0.025
0.02
0.015
0.01
0.005

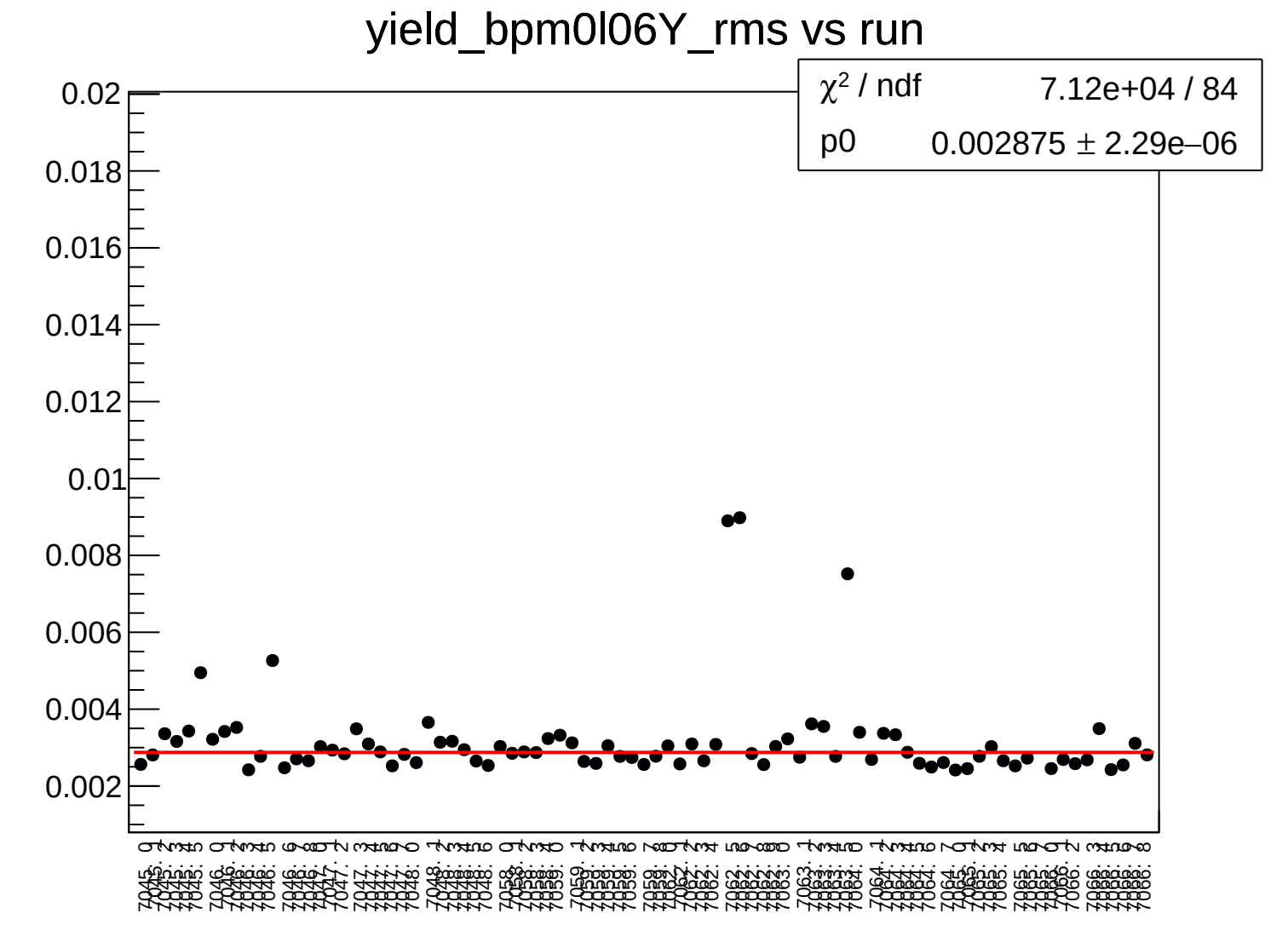

yield_bpm0l06X_mean vs run
χ² / ndf 6.871e+07 / 84
p0 2.978 ± 8.576e−06
3.1
3.05
3
2.95
2.9
pull
Entries 85
Mean 5554
Std Dev 0
1500
1000
500
0
−500
−1000

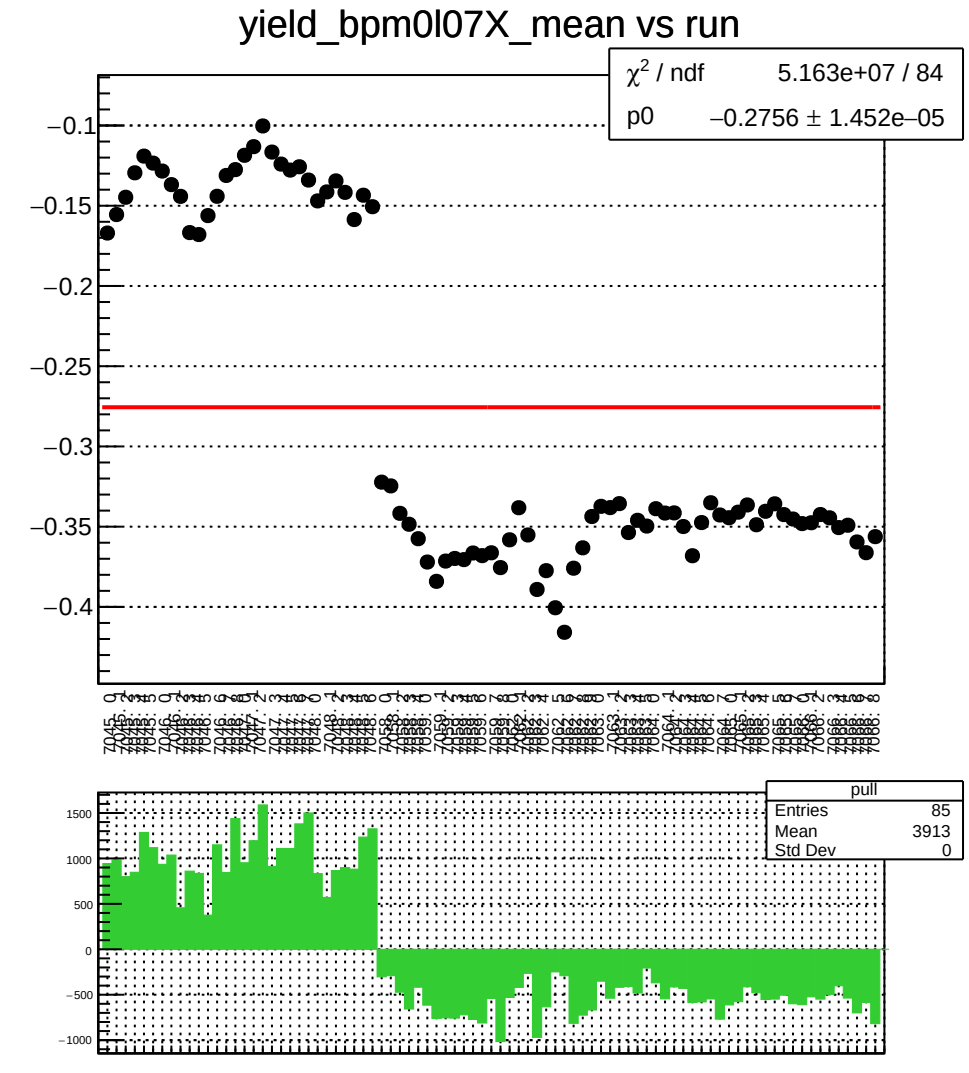

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

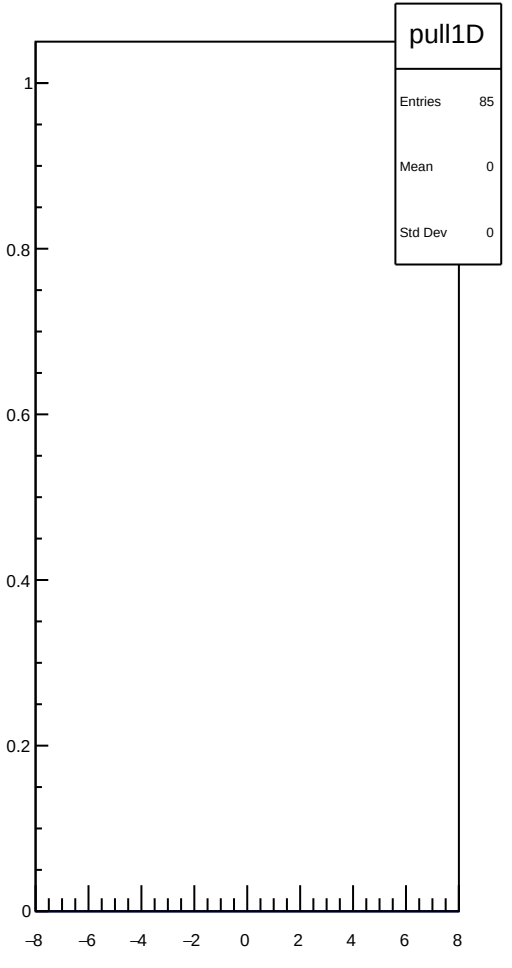

yield_bpm0l06X_rms vs run
χ^2 / ndf 9.339e+04 / 84
p0 0.007559 ± 6.064e−06
0.03
0.025
0.02
0.015
0.01
0.005

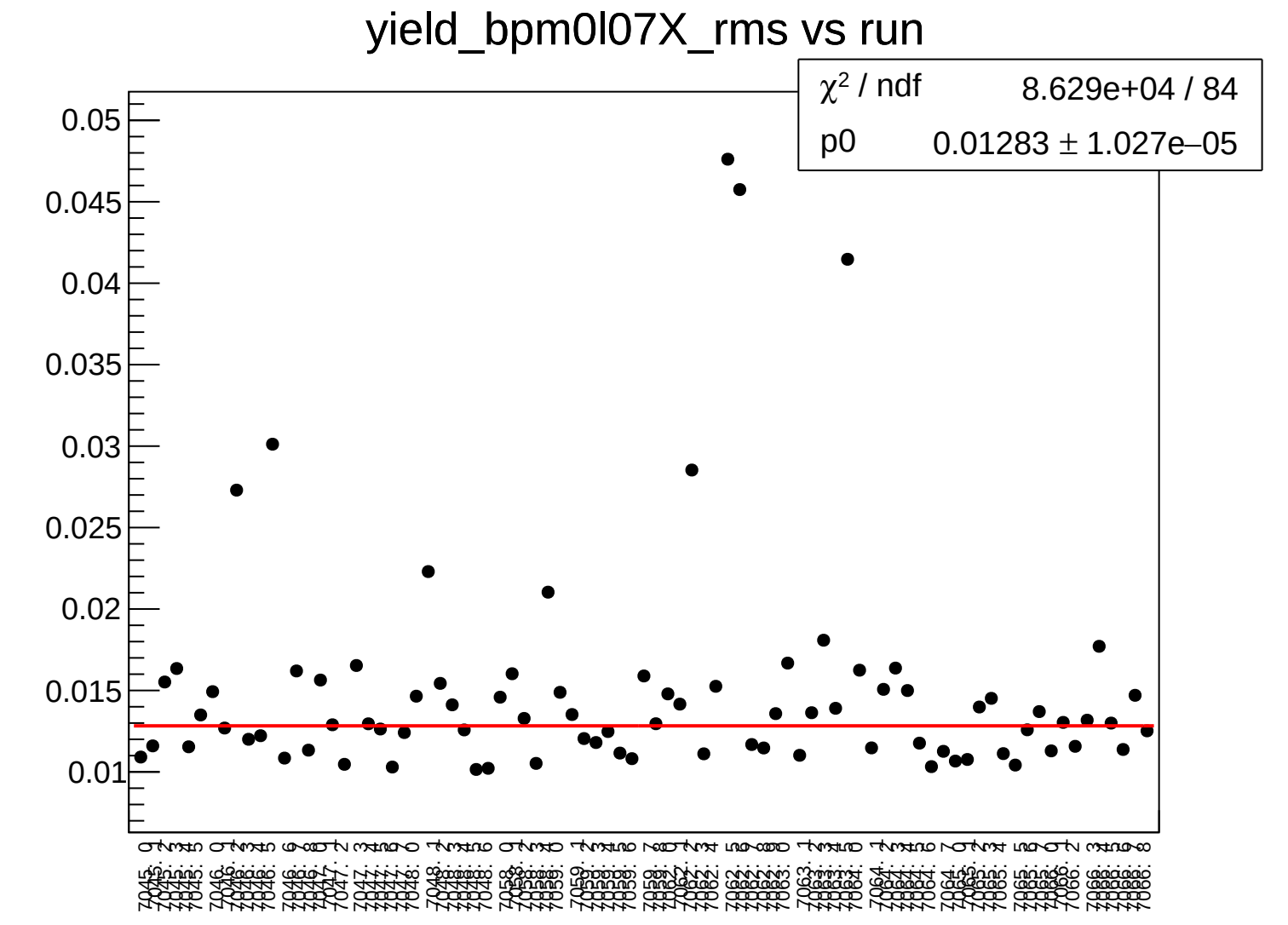

yield_bpm0l06Y_mean vs run
χ² / ndf 1.331e+07 / 84
p0 −1.519 ± 3.239e−06
−1.5
−1.505
−1.51
−1.515
−1.52
−1.525
−1.53
−1.535
−1.54
−1.545
pull
Entries 85
Mean −4116
Std Dev 0
600
400
200
0
−200
−400
−600
−800

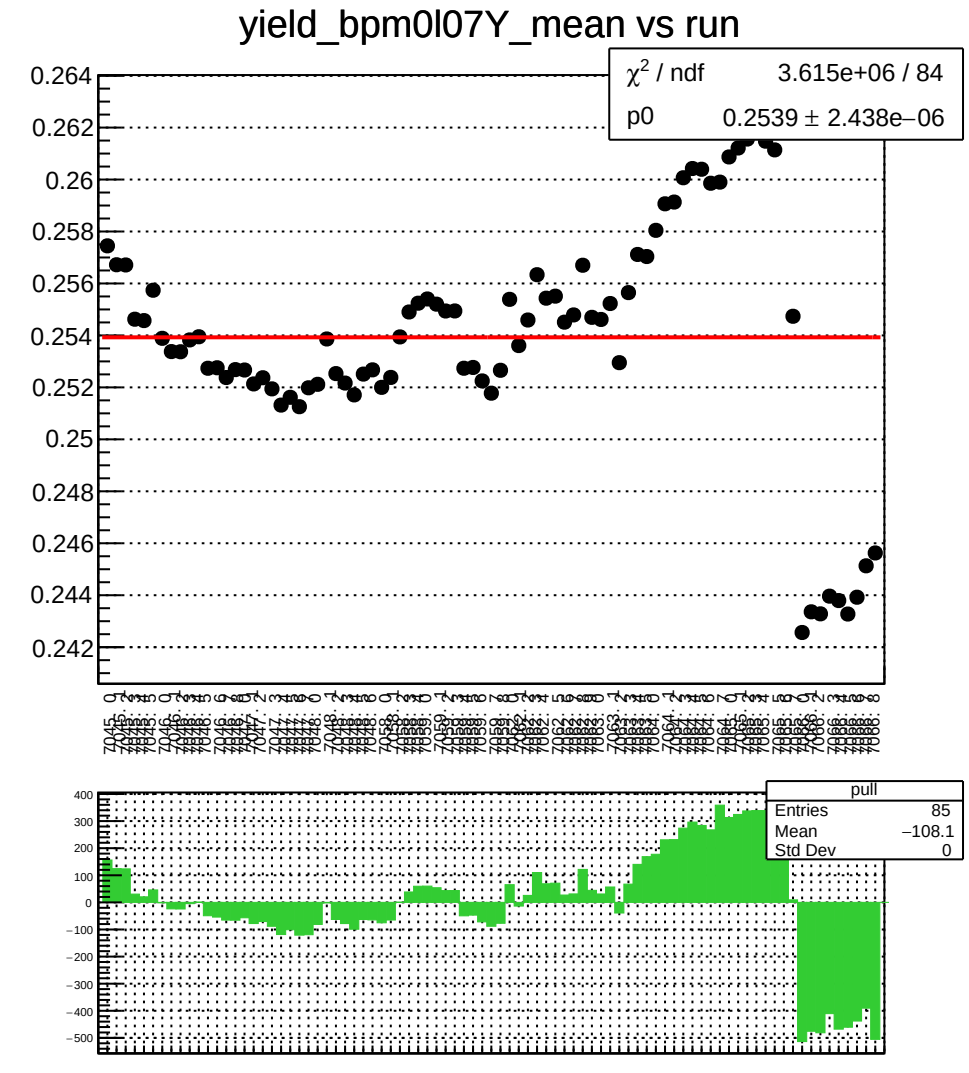

pull1D
Entries 85
Mean −5.515
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

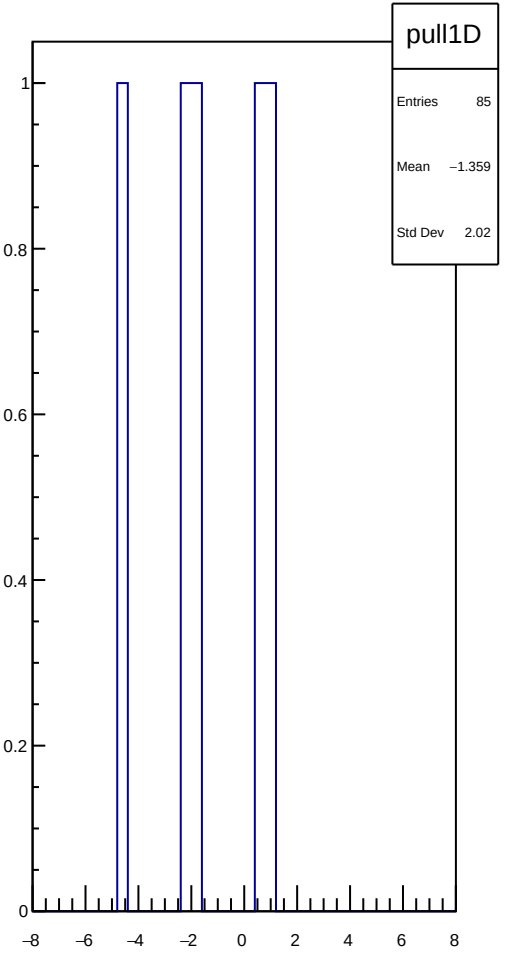

yield_bpm0l06Y_rms vs run
χ² / ndf 7.12e+04 / 84
p0 0.002875 ± 2.29e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

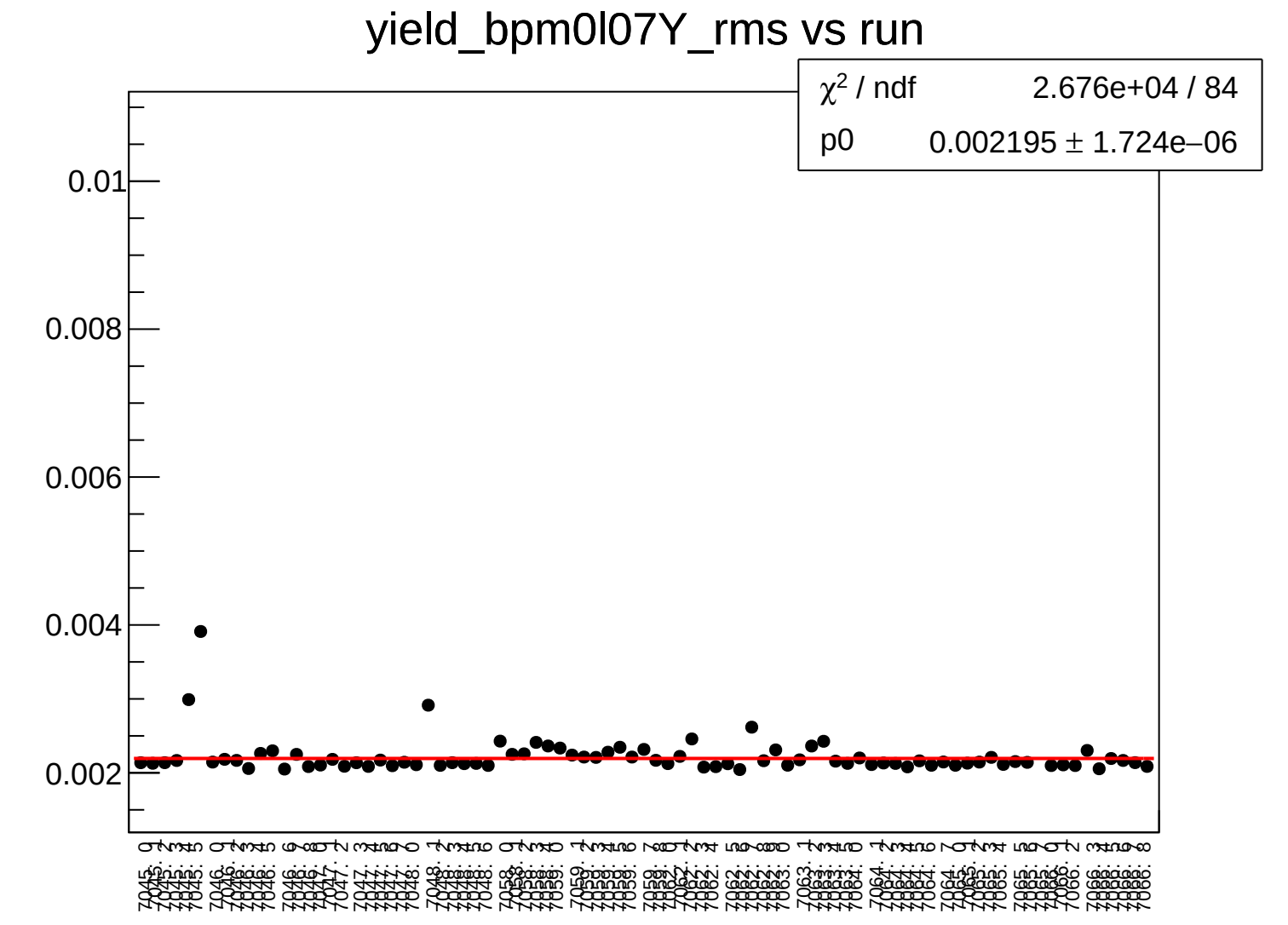

yield_bpm0l07X_mean vs run
χ² / ndf 5.163e+07 / 84
p0 −0.2756 ± 1.452e−05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 85
Mean 3913
Std Dev 0
1500
1000
500
0
−500
−1000

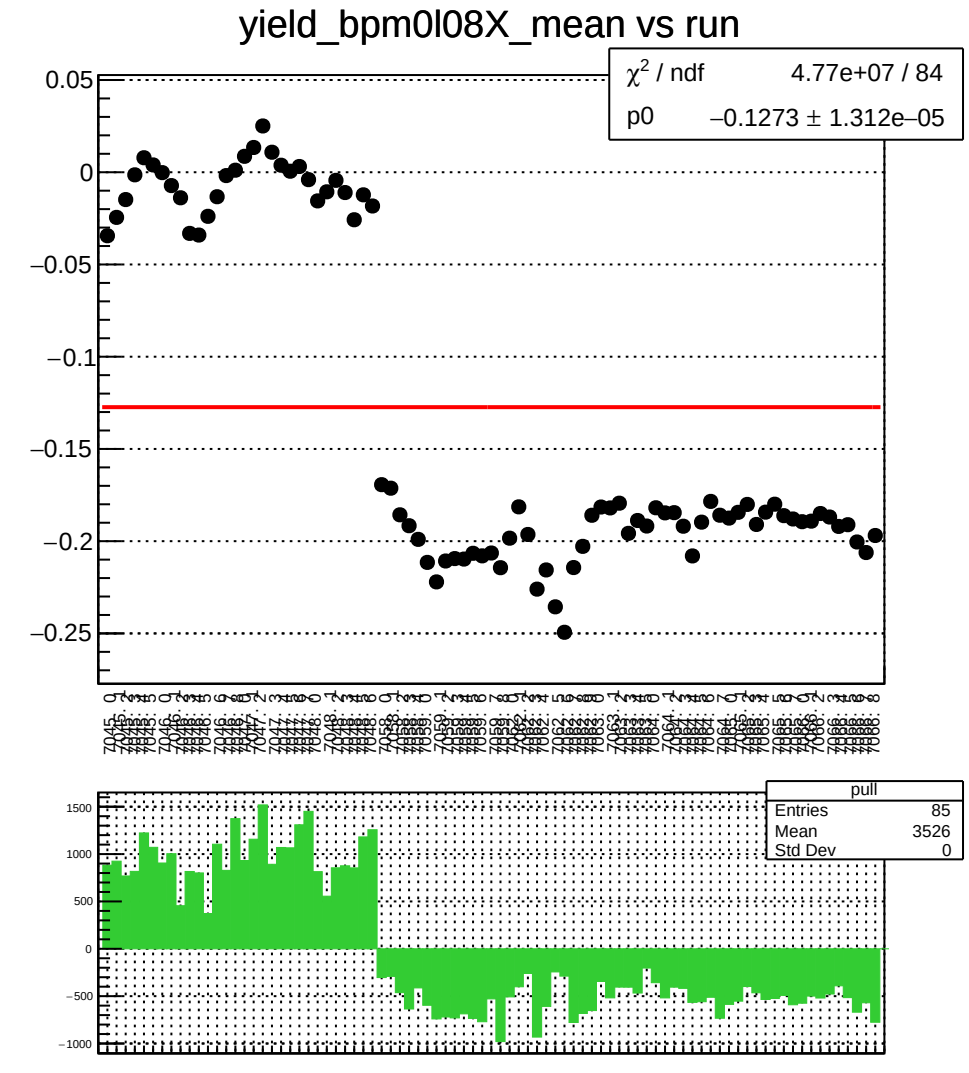

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

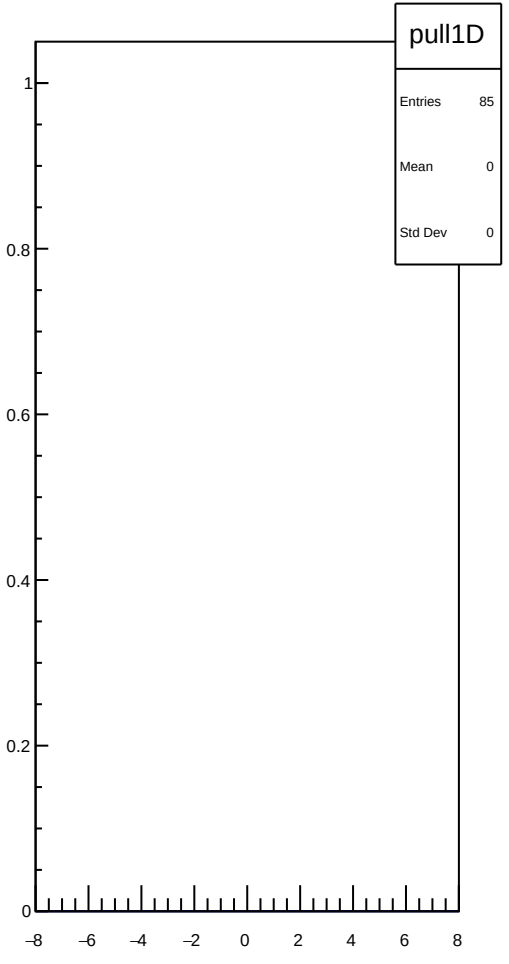

yield_bpm0l07X_rms vs run
χ² / ndf 8.629e+04 / 84
p0 0.01283 ± 1.027e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

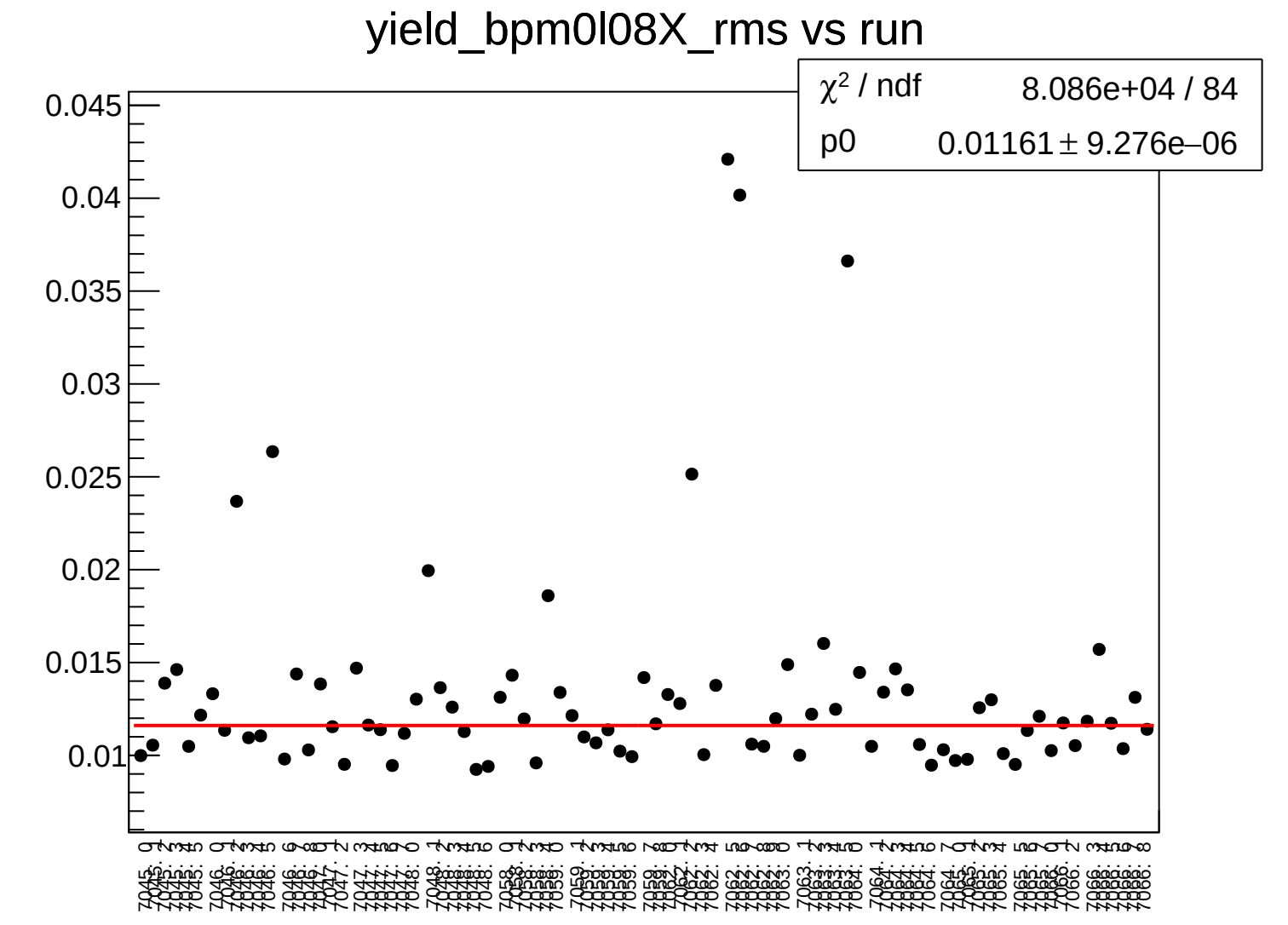

yield_bpm0l07Y_mean vs run
χ² / ndf 3.615e+06 / 84
p0 0.2539 ± 2.438e−06
0.264
0.262
0.26
0.258
0.256
0.254
0.252
0.25
0.248
0.246
0.244
0.242
pull
Entries 85
Mean −108.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

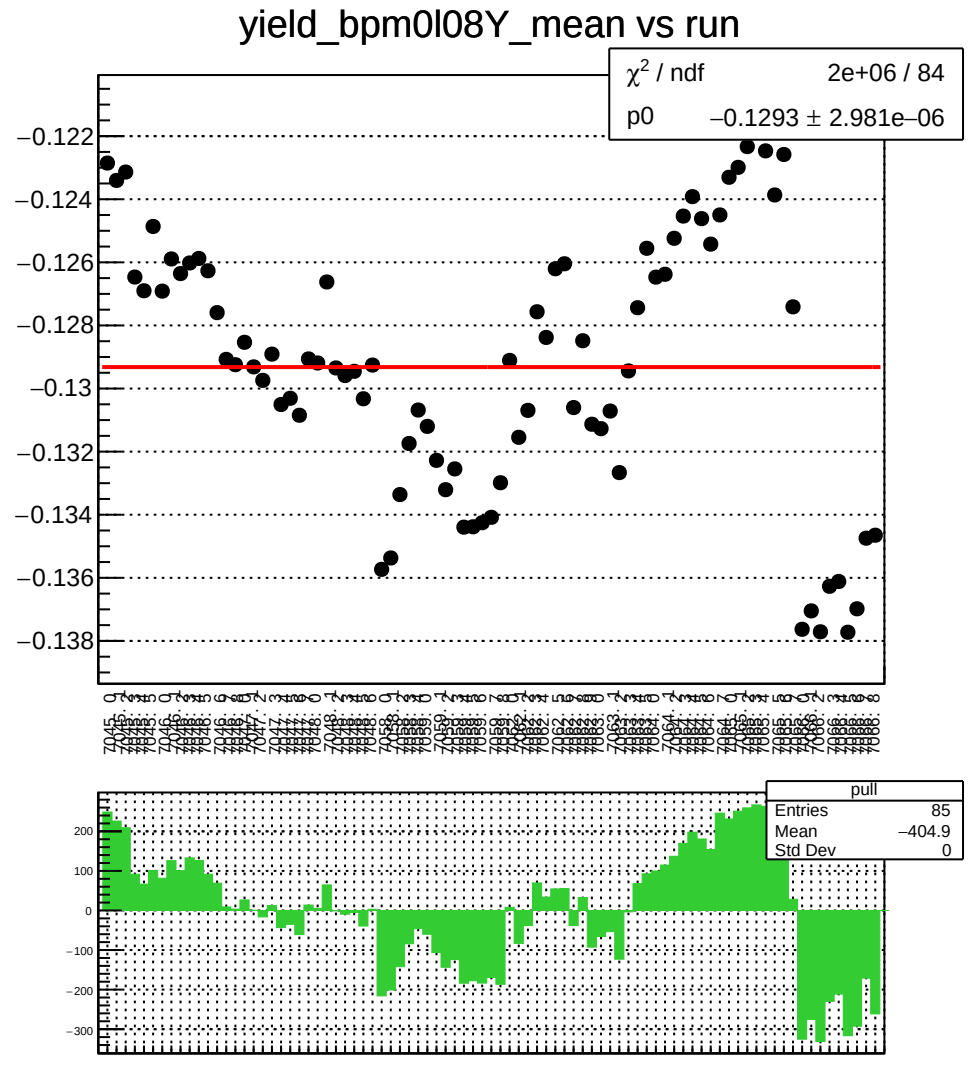

pull1D
Entries 85
Mean −1.359
Std Dev 2.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

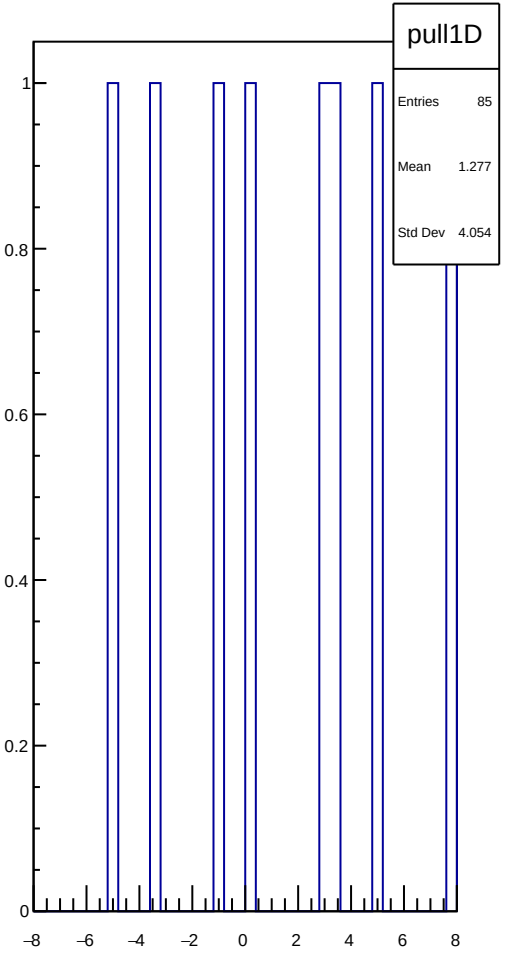

yield_bpm0l07Y_rms vs run
χ² / ndf 2.676e+04 / 84
p0 0.002195 ± 1.724e−06
0.01
0.008
0.006
0.004
0.002

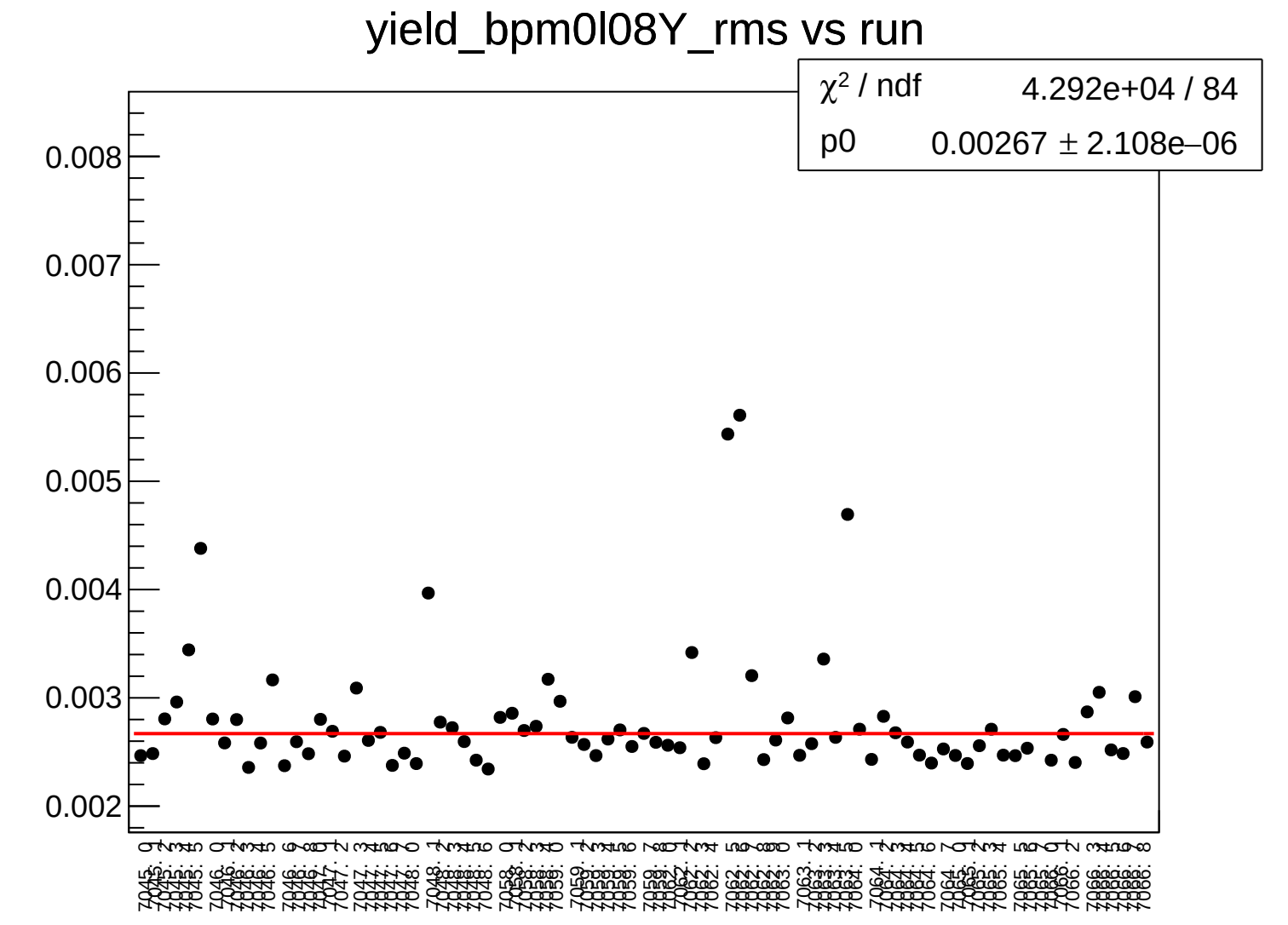

yield_bpm0l08X_mean vs run
χ² / ndf 4.77e+07 / 84
p0 −0.1273 ± 1.312e−05
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 85
Mean 3526
Std Dev 0
1500
1000
500
0
−500
−1000

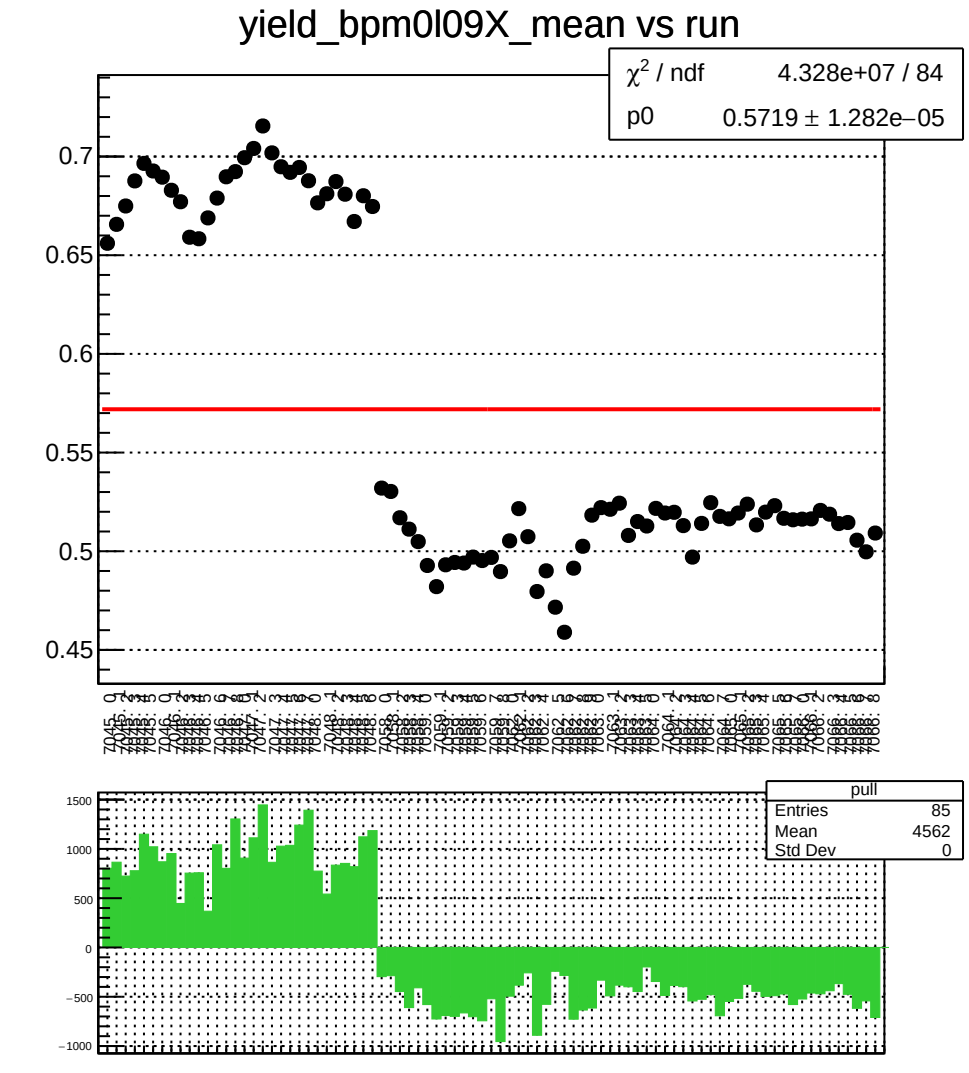

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

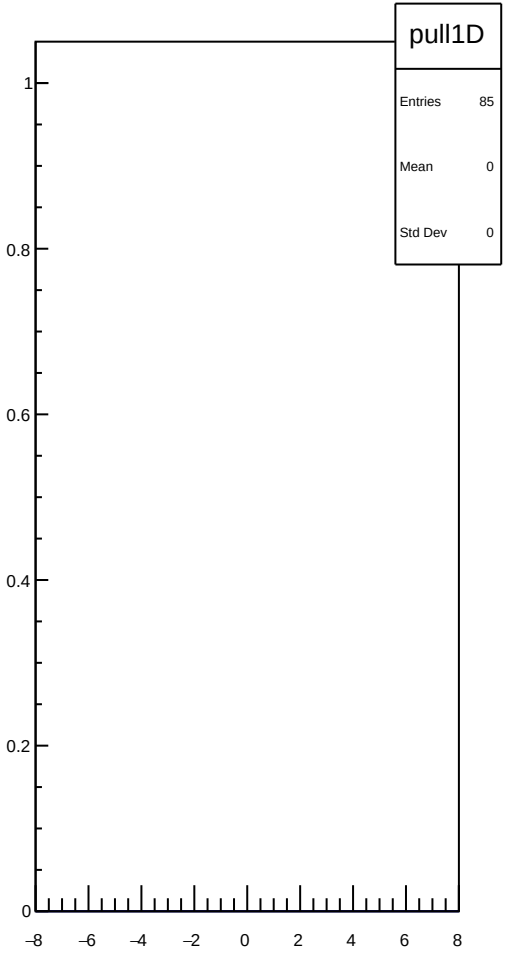

yield_bpm0l08X_rms vs run
χ² / ndf 8.086e+04 / 84
p0 0.01161 ± 9.276e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

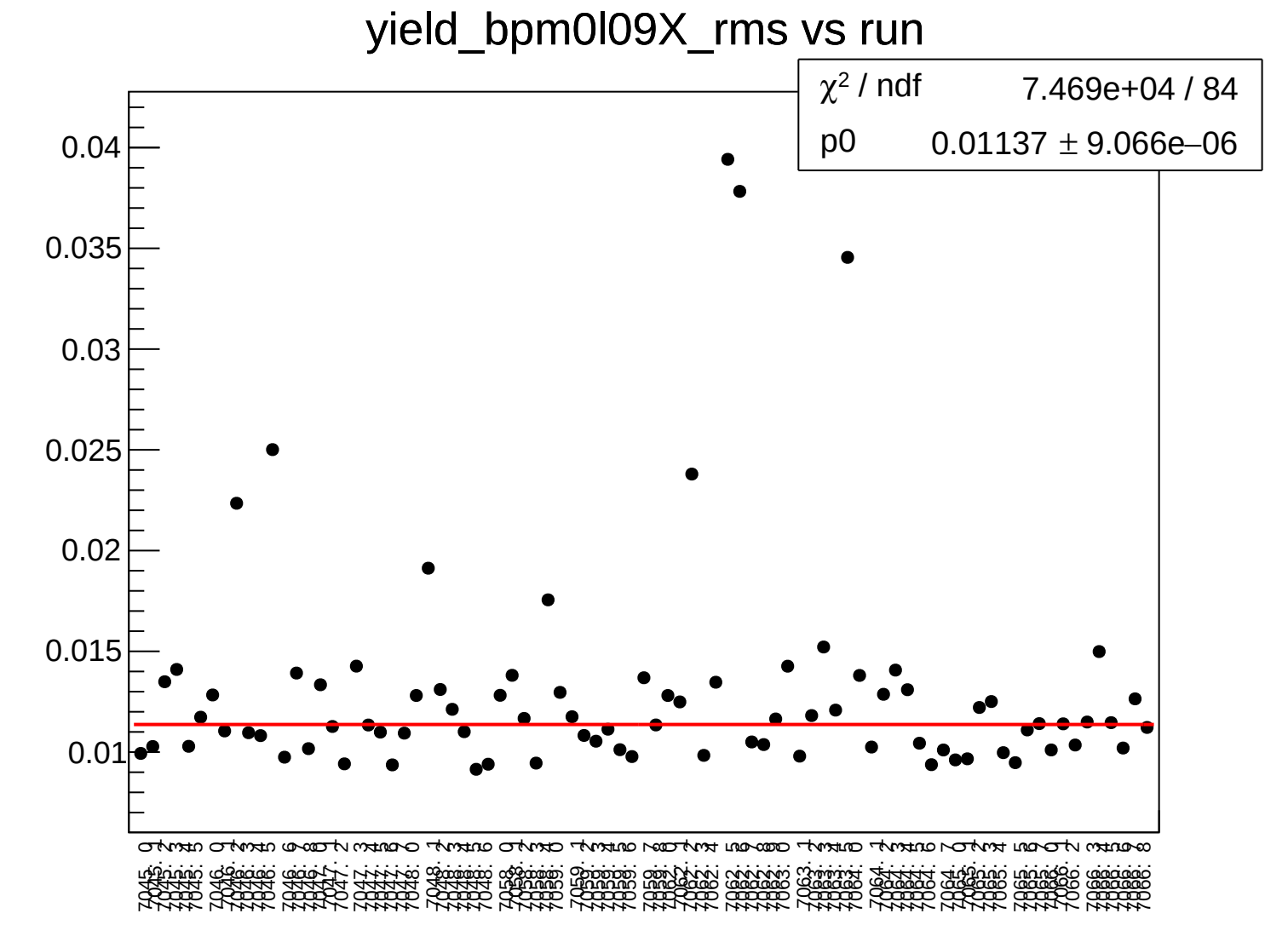

yield_bpm0l08Y_mean vs run
χ² / ndf 2e+06 / 84
p0 −0.1293 ± 2.981e−06
−0.122
−0.124
−0.126
−0.128
−0.13
−0.132
−0.134
−0.136
−0.138
pull
Entries 85
Mean −404.9
Std Dev 0
200
100
0
−100
−200
−300

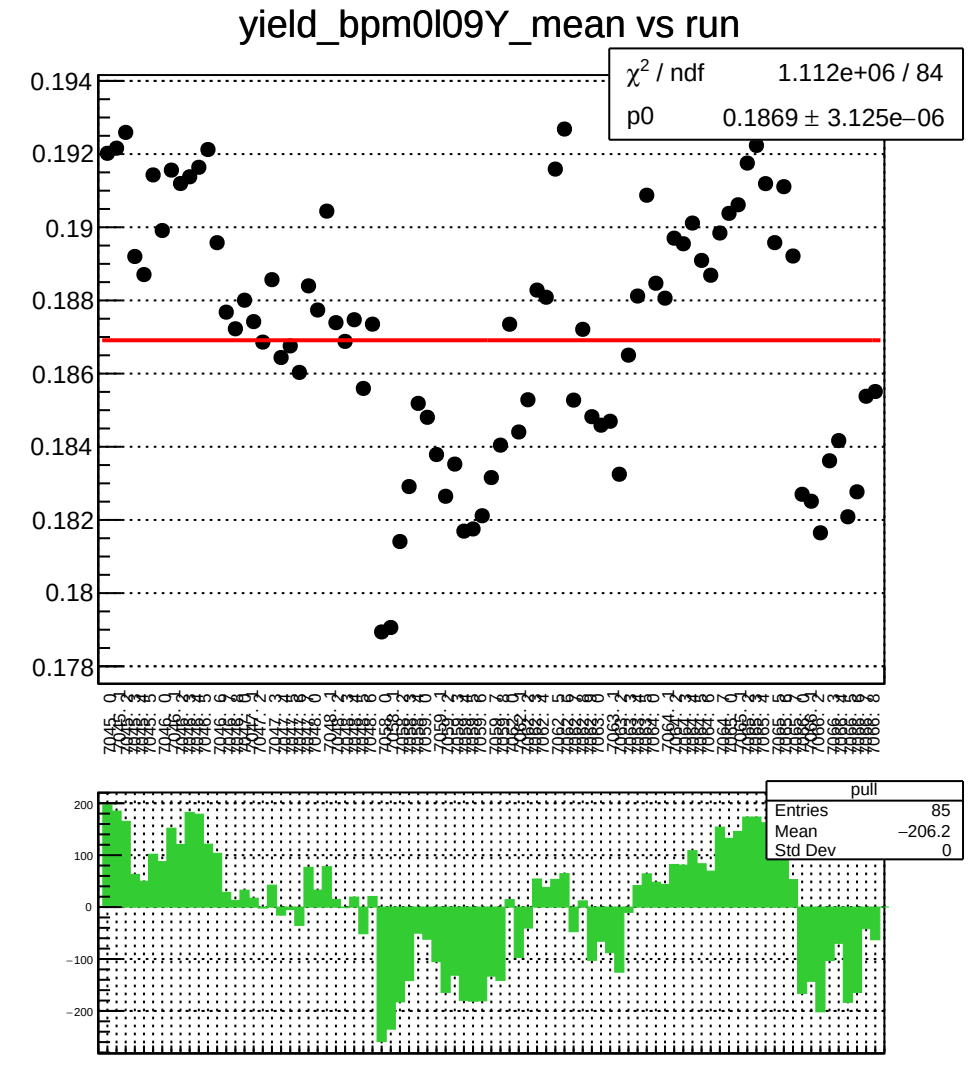

pull1D
Entries 85
Mean 1.277
Std Dev 4.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

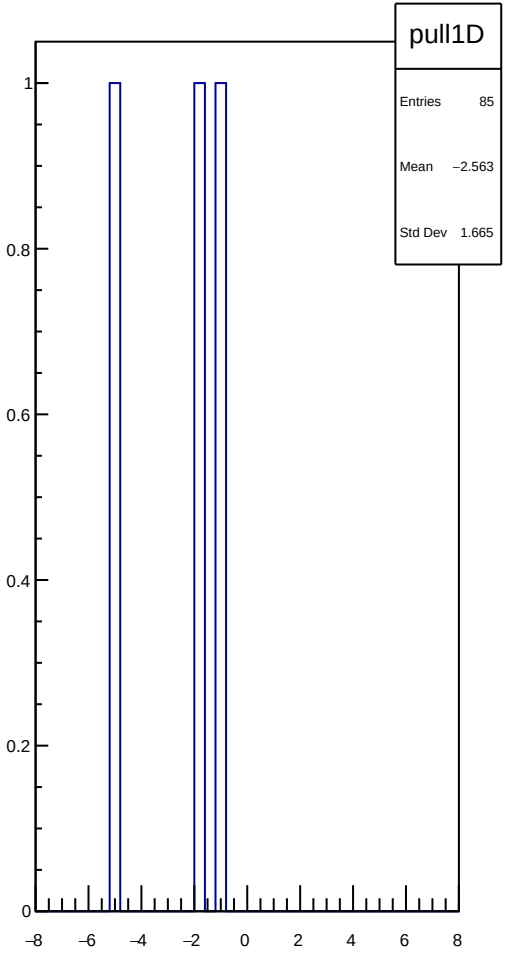

yield_bpm0l08Y_rms vs run
χ² / ndf 4.292e+04 / 84
p0 0.00267 ± 2.108e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

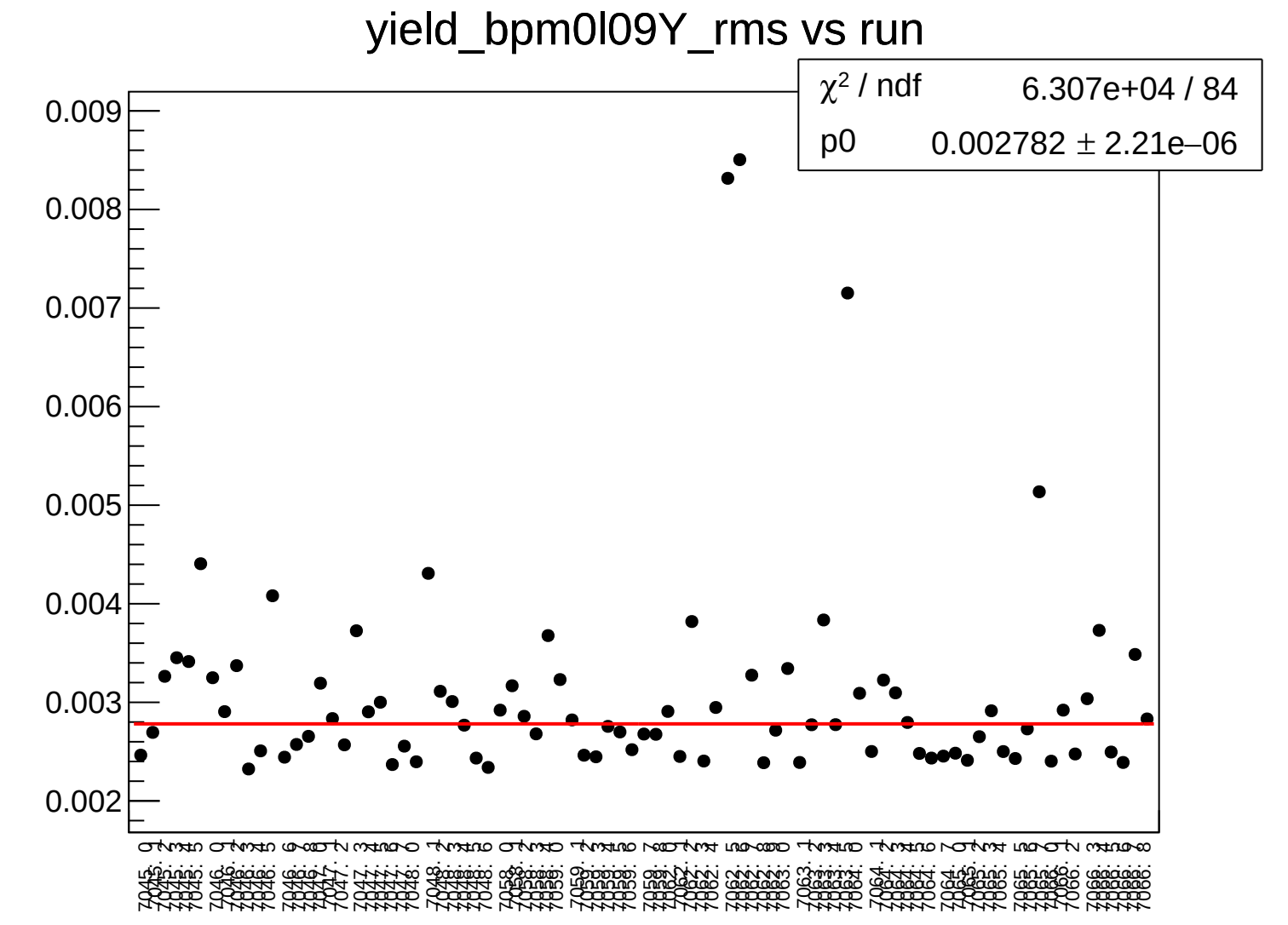

yield_bpm0l09X_mean vs run
χ² / ndf 4.328e+07 / 84
p0 0.5719 ± 1.282e−05
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 85
Mean 4562
Std Dev 0
1500
1000
500
0
−500
−1000

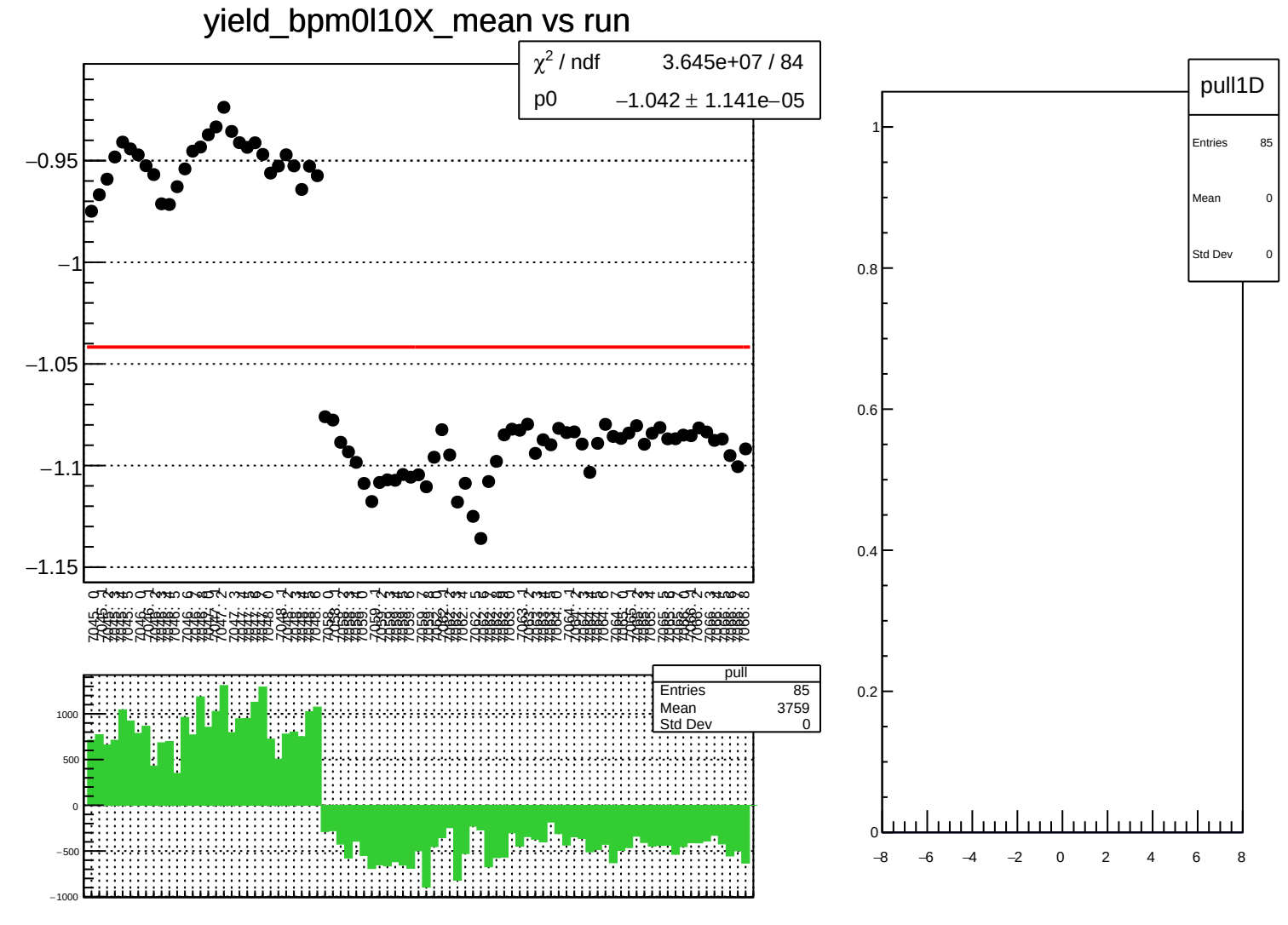

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

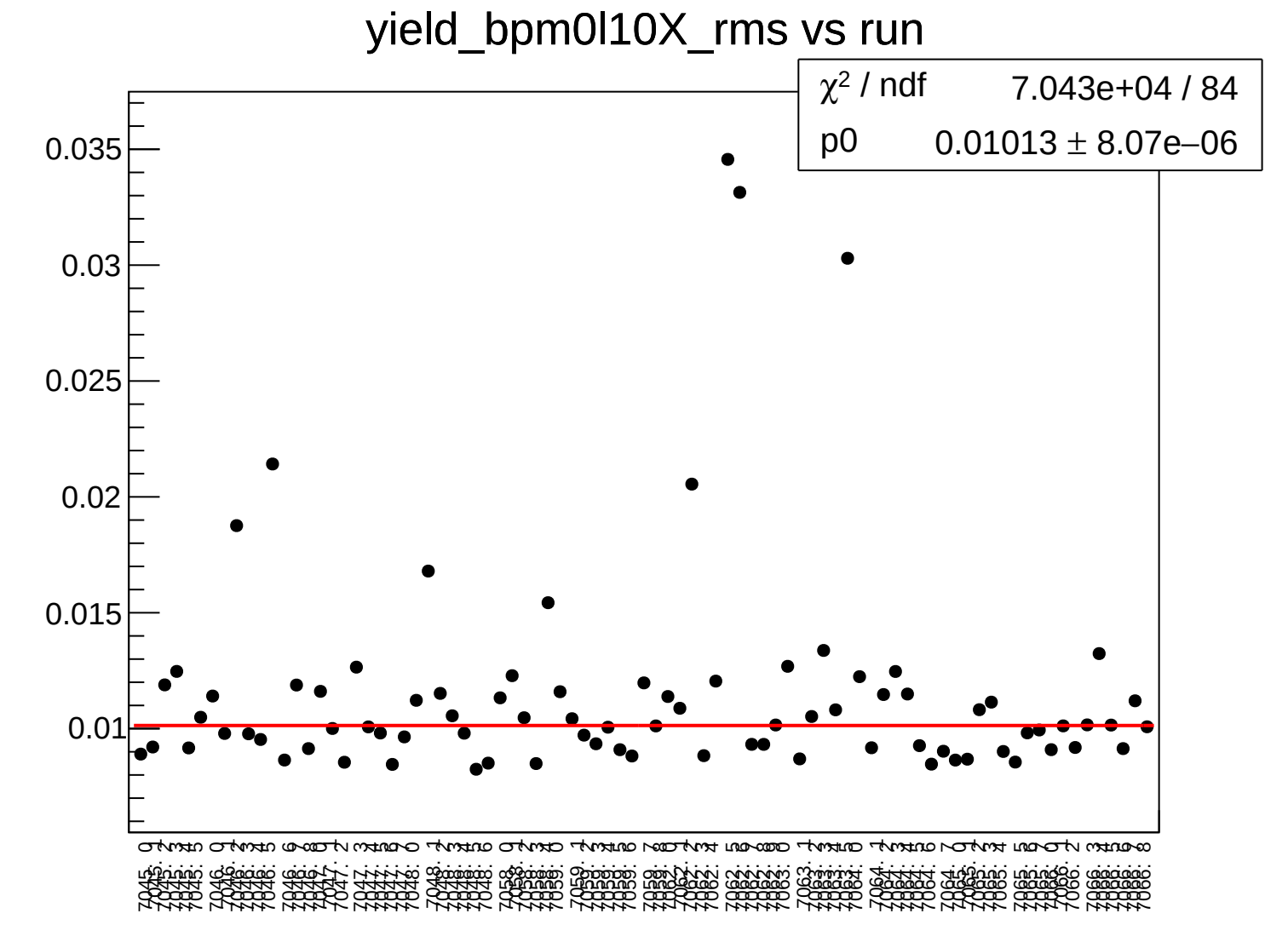

yield_bpm0l09X_rms vs run
χ² / ndf 7.469e+04 / 84
p0 0.01137 ± 9.066e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

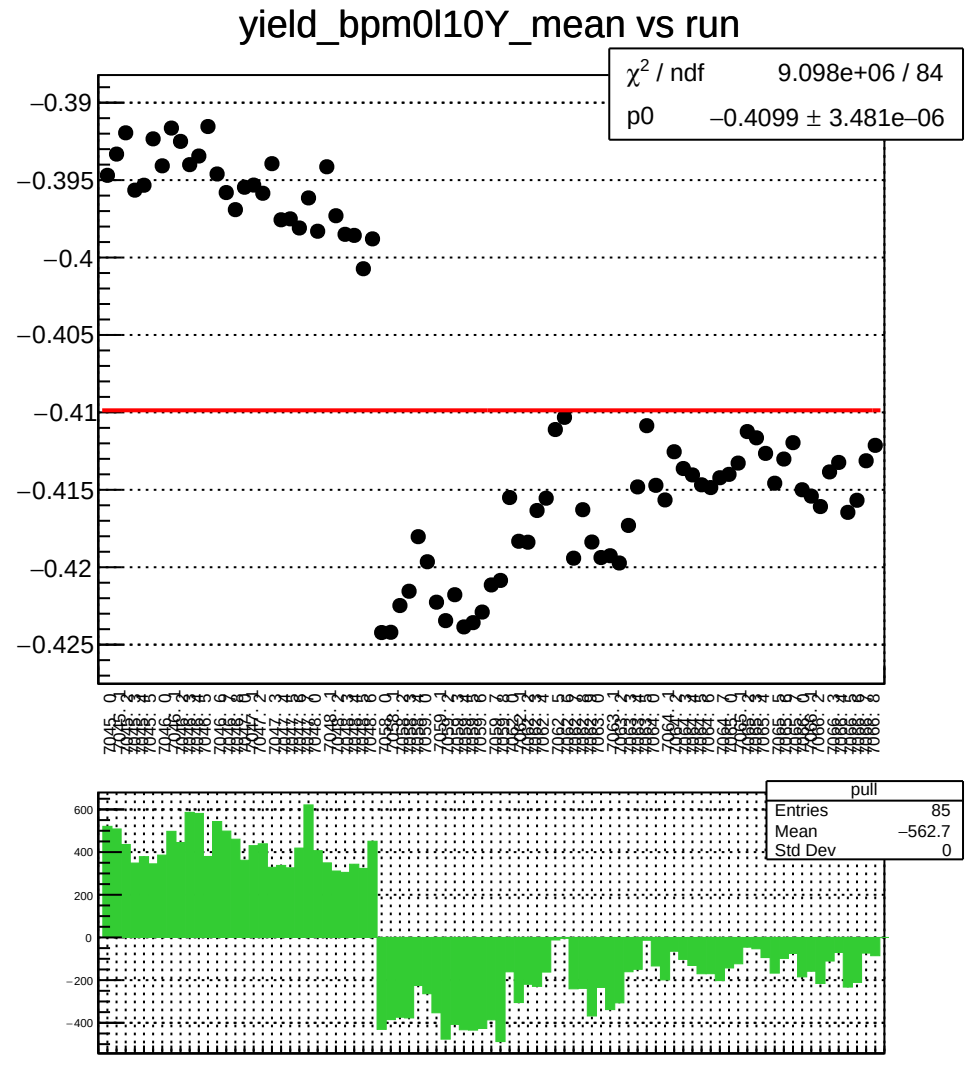

yield_bpm0l09Y_mean vs run
χ² / ndf 1.112e+06 / 84
p0 0.1869 ± 3.125e−06
0.194
0.192
0.19
0.188
0.186
0.184
0.182
0.18
0.178
pull
Entries 85
Mean −206.2
Std Dev 0
200
100
0
−100
−200

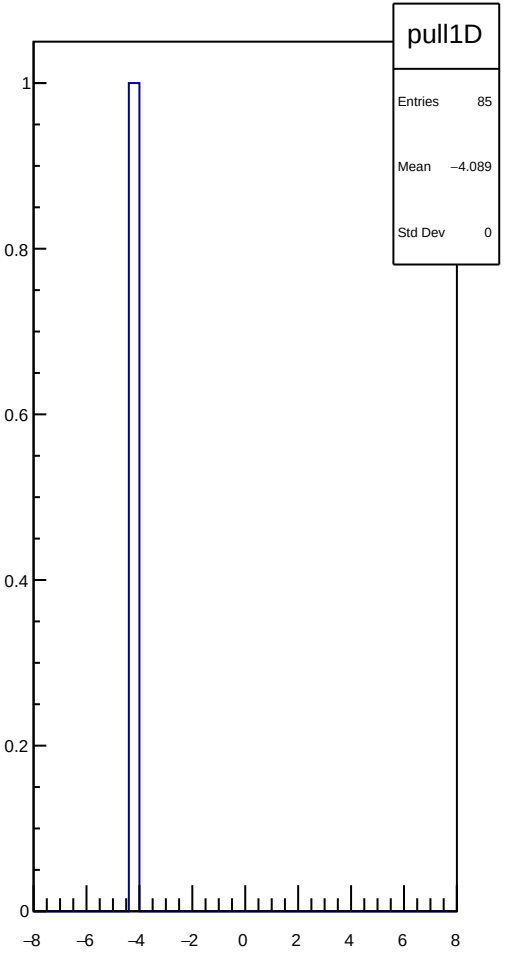

pull1D
Entries 85
Mean −2.563
Std Dev 1.665
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

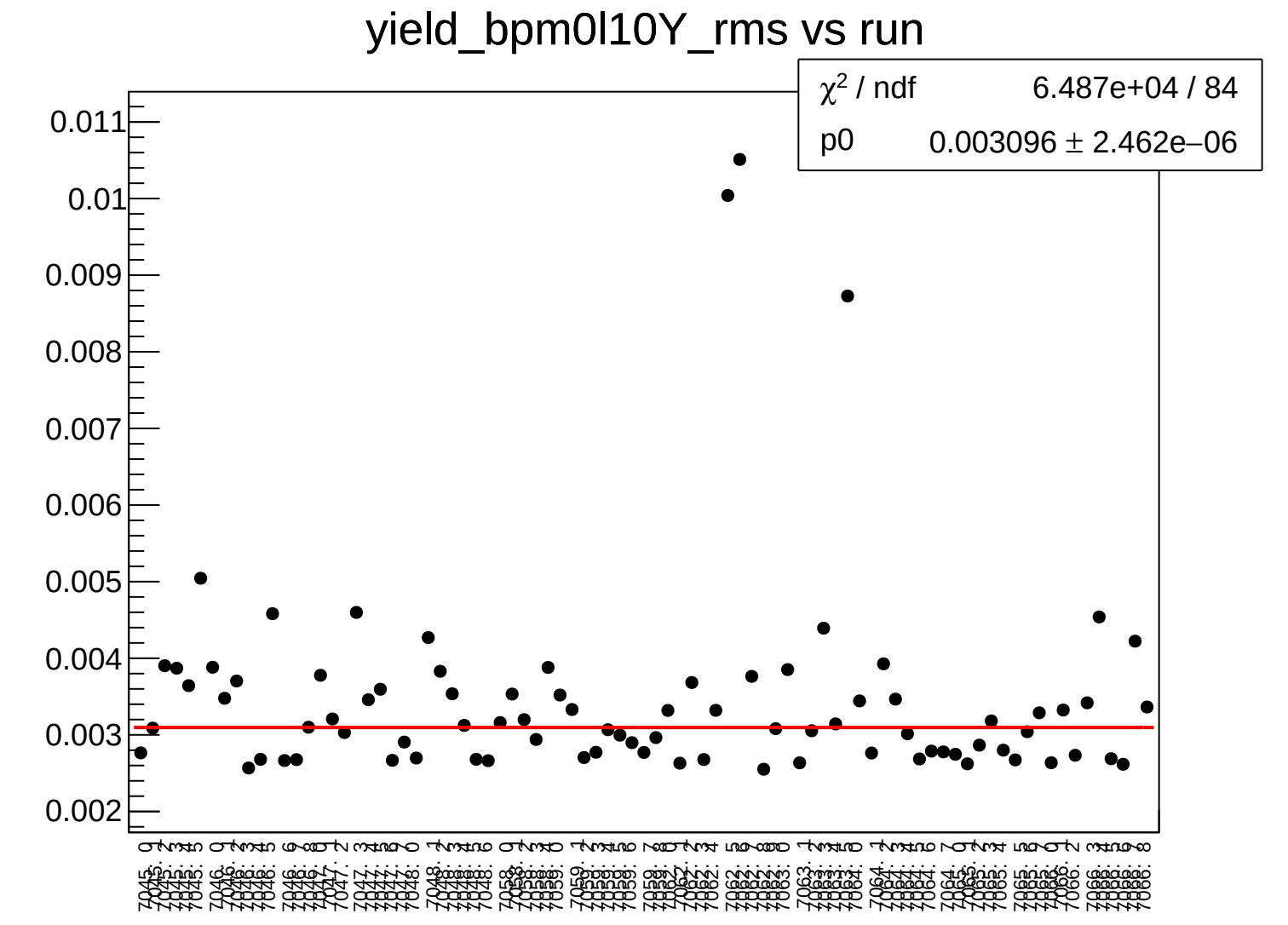

yield_bpm0l09Y_rms vs run
χ² / ndf 6.307e+04 / 84
p0 0.002782 ± 2.21e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

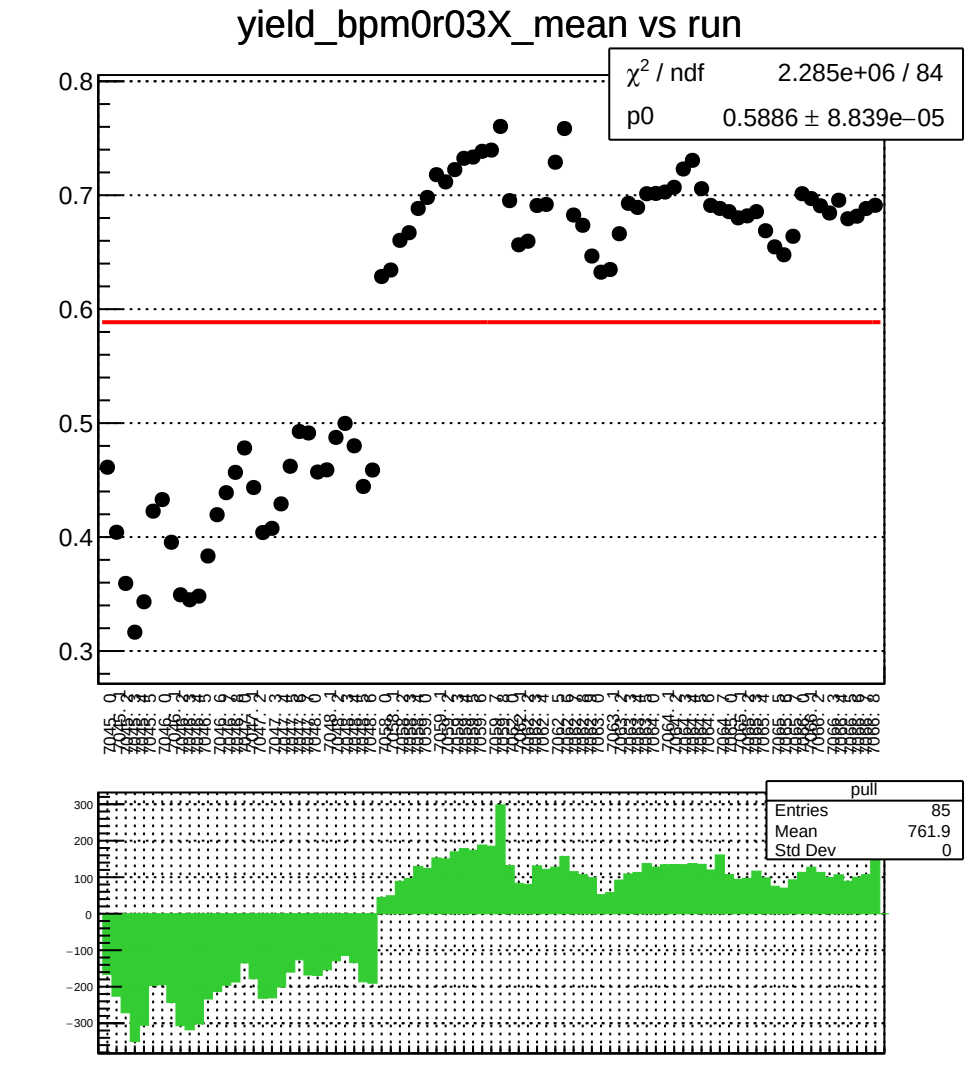

yield_bpm0l10X_mean vs run
χ² / ndf 3.645e+07 / 84
p0 −1.042 ± 1.141e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 85
Mean 3759
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

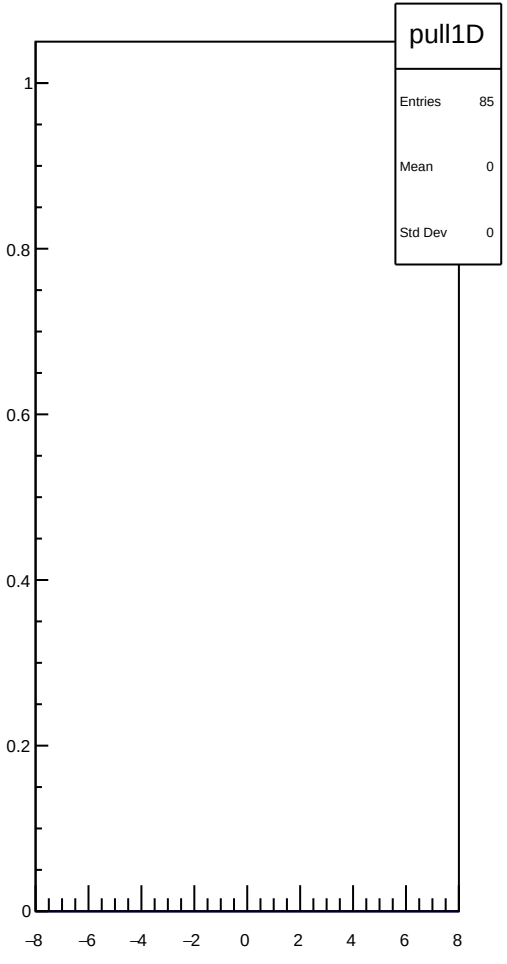

yield_bpm0l10X_rms vs run
χ² / ndf 7.043e+04 / 84
p0 0.01013 ± 8.07e−06
0.035
0.03
0.025
0.02
0.015
0.01

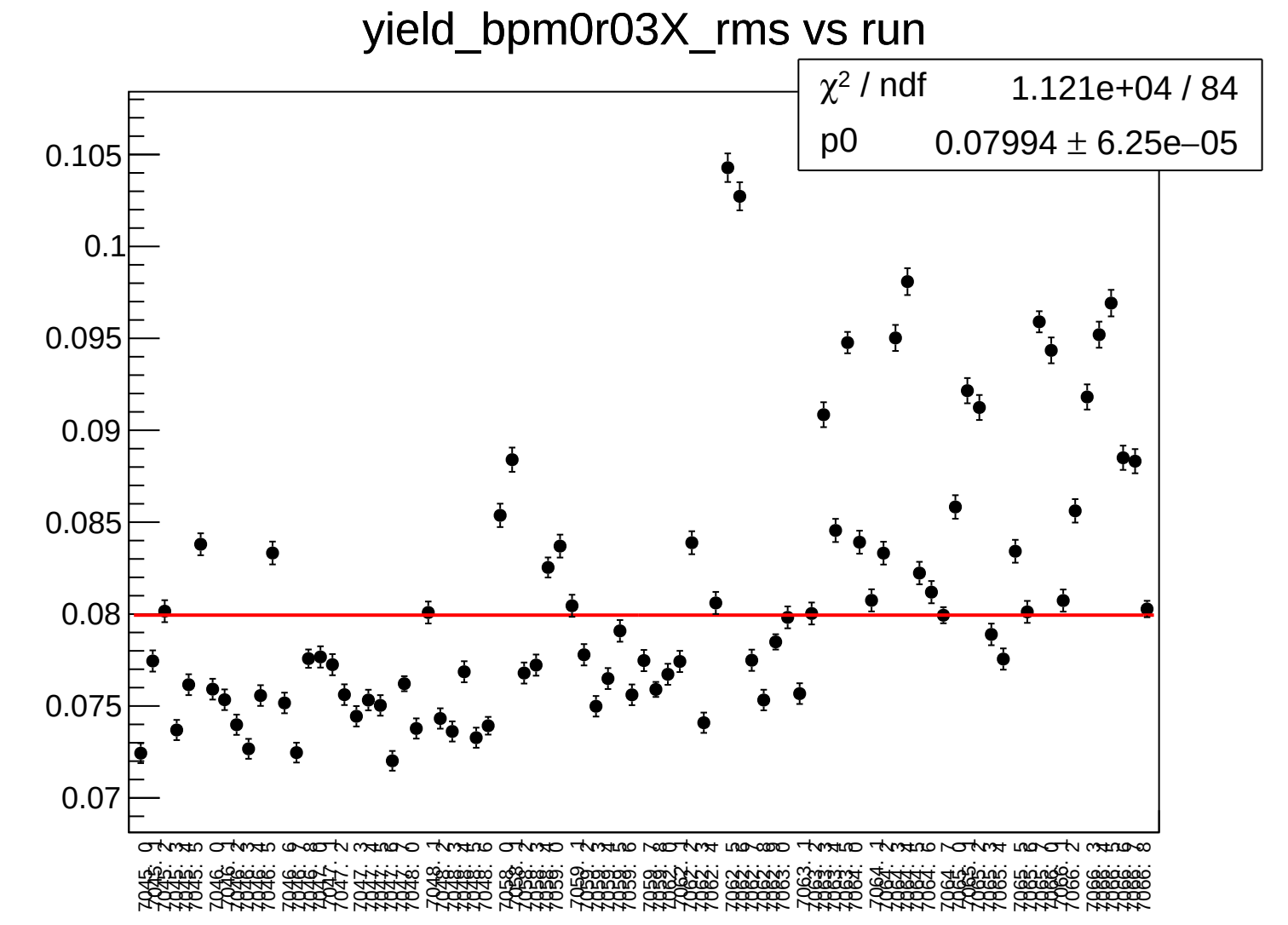

yield_bpm0l10Y_mean vs run
χ² / ndf 9.098e+06 / 84
p0 −0.4099 ± 3.481e−06
−0.39
−0.395
−0.4
−0.405
−0.41
−0.415
−0.42
−0.425
pull
Entries 85
Mean −562.7
Std Dev 0
600
400
200
0
−200
−400

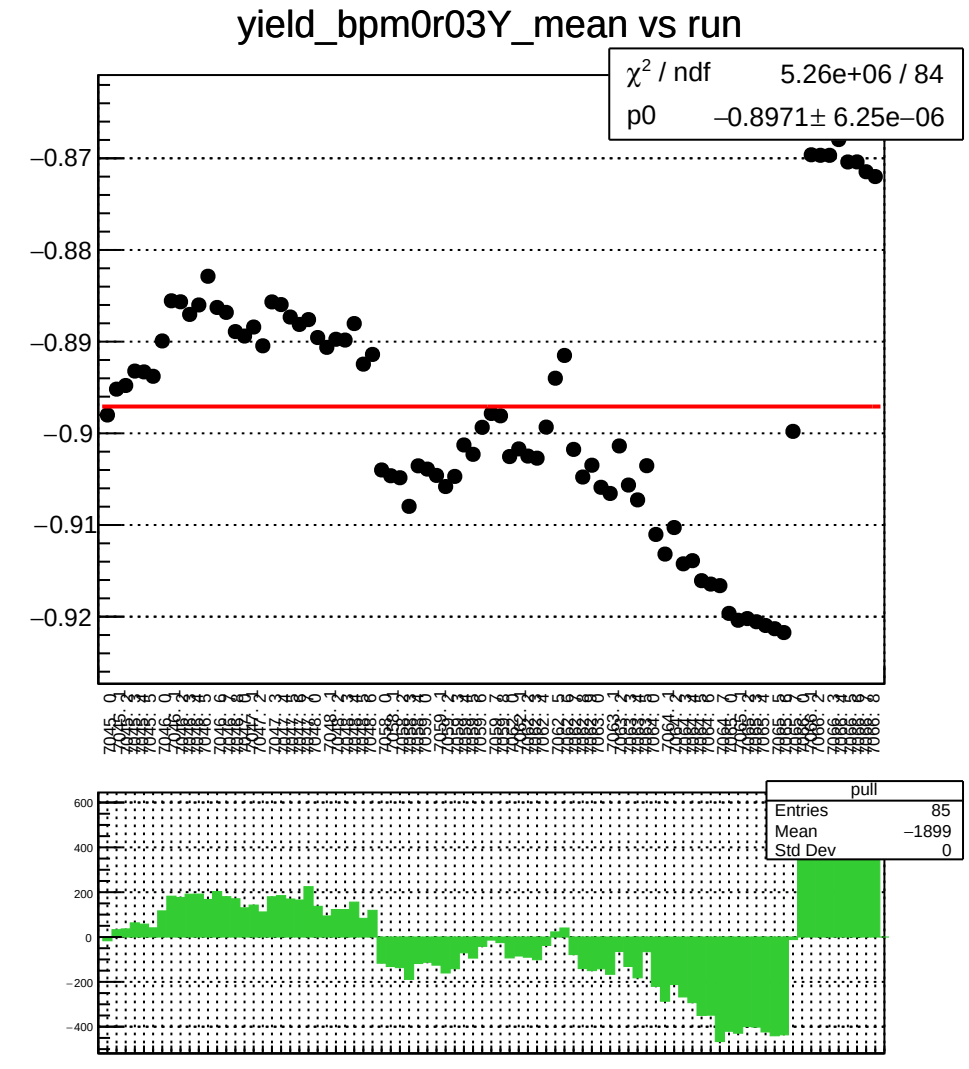

pull1D
Entries 85
Mean −4.089
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

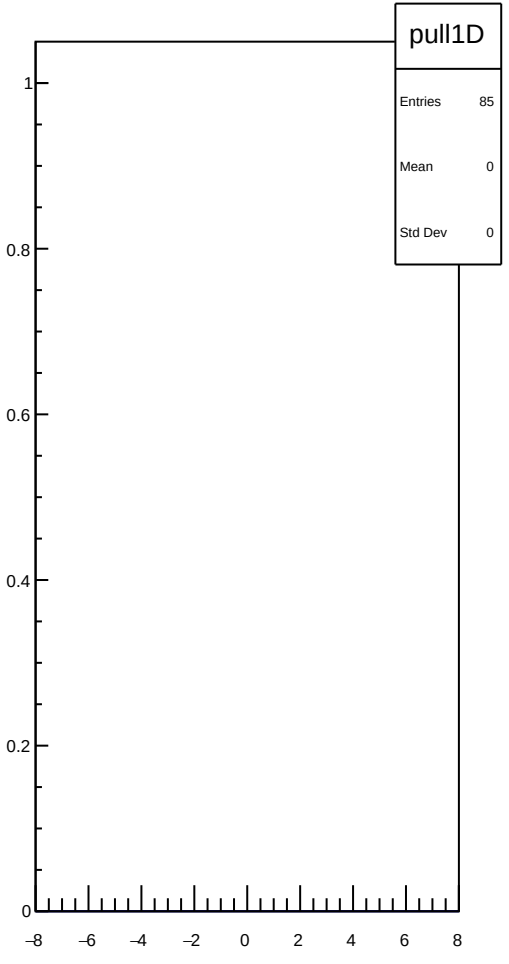

yield_bpm0l10Y_rms vs run
χ² / ndf 6.487e+04 / 84
p0 0.003096 ± 2.462e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

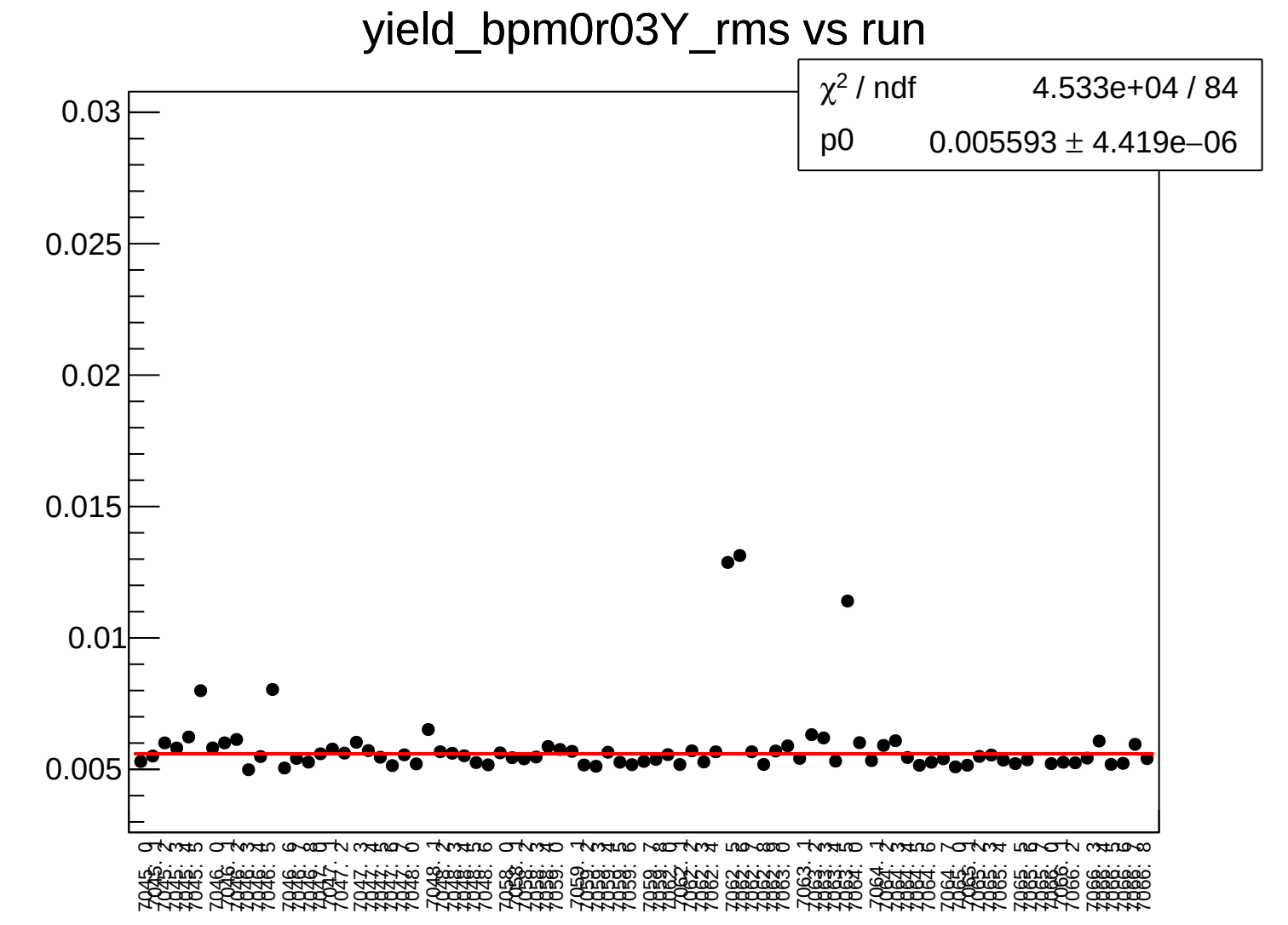

yield_bpm0r03X_mean vs run
χ² / ndf 2.285e+06 / 84
p0 0.5886 ± 8.839e−05
pull
Entries 85
Mean 761.9
Std Dev 0

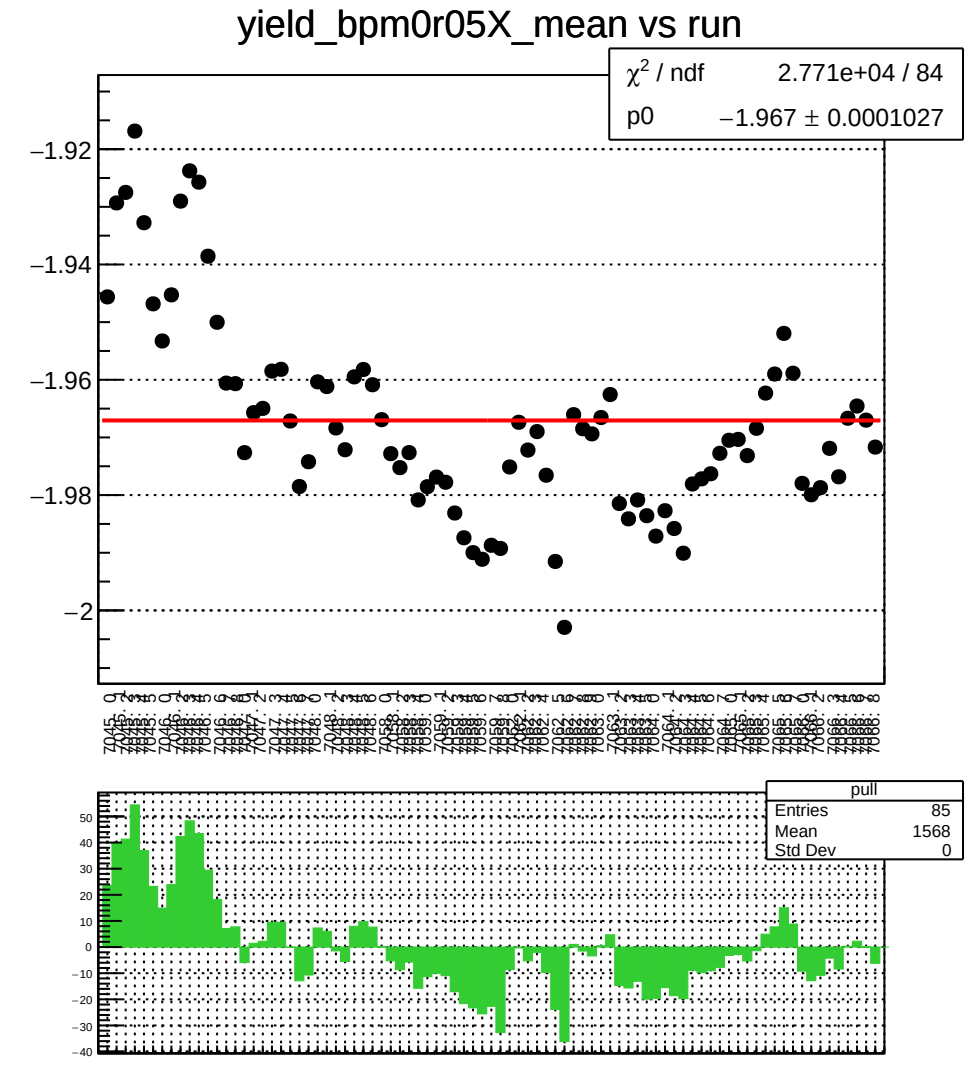

pull1D
Entries 85
Mean 0
Std Dev 0

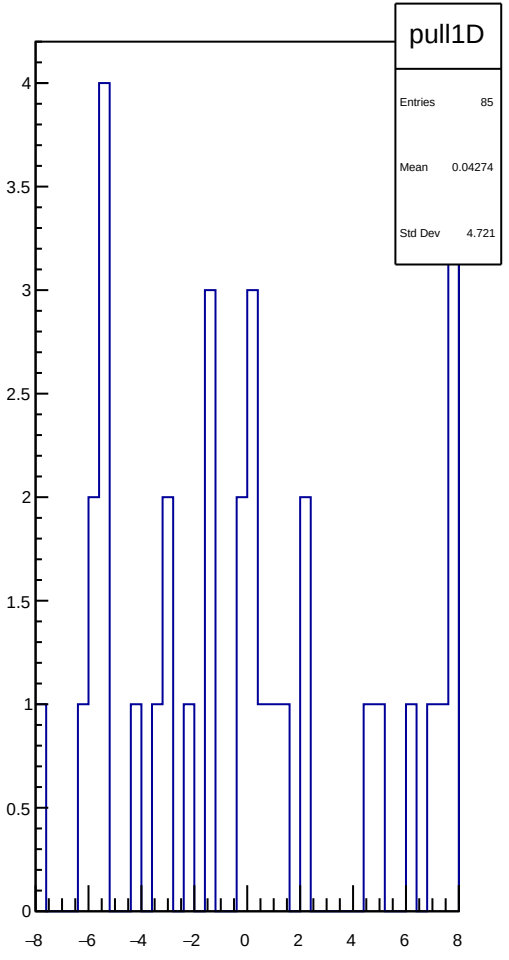

yield_bpm0r03X_rms vs run
χ² / ndf 1.121e+04 / 84
p0 0.07994 ± 6.25e−05
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

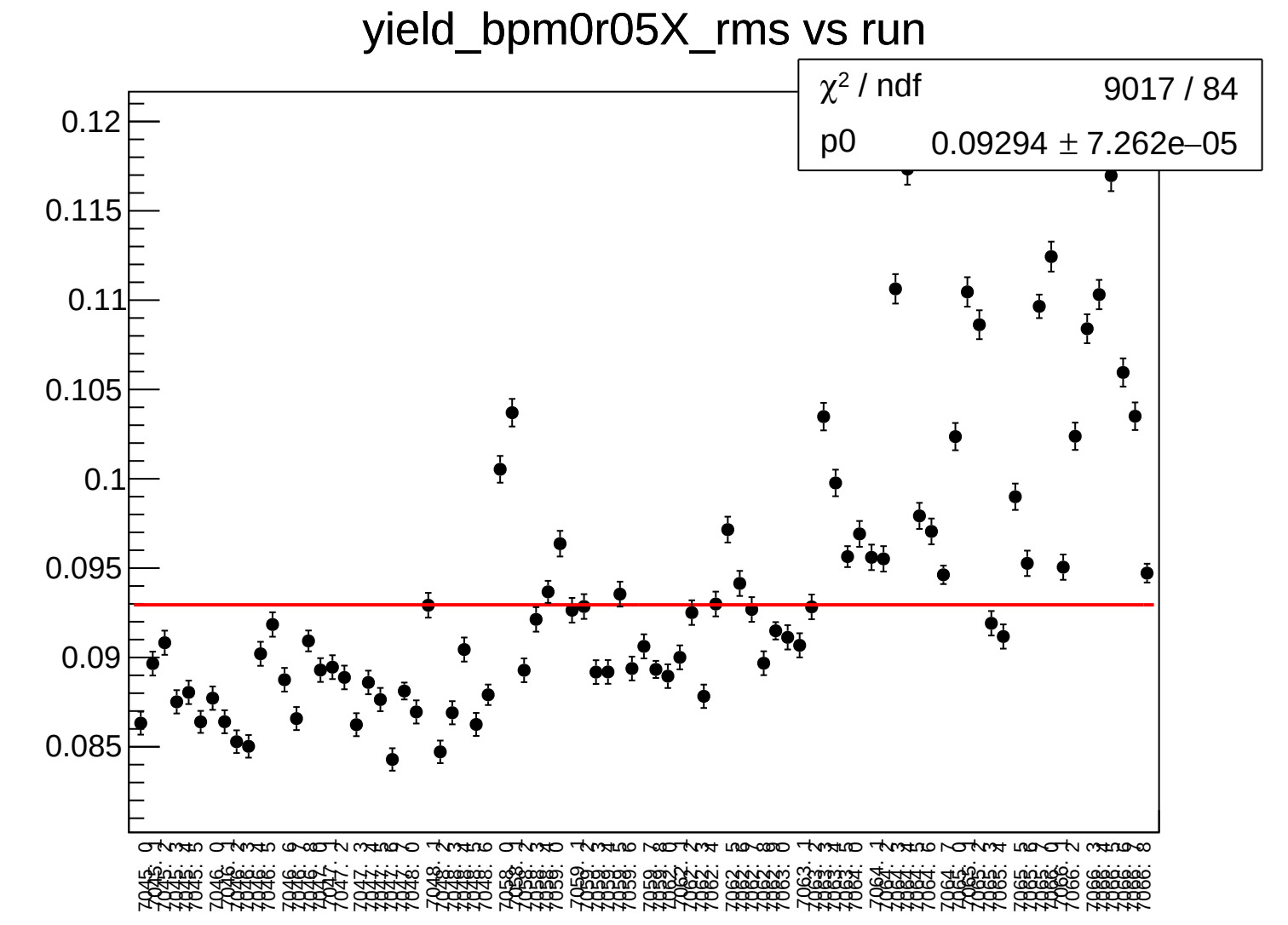

yield_bpm0r03Y_mean vs run
χ² / ndf 5.26e+06 / 84
p0 −0.8971± 6.25e−06
−0.87
−0.88
−0.89
−0.9
−0.91
−0.92
pull
Entries 85
Mean −1899
Std Dev 0
600
400
200
0
−200
−400

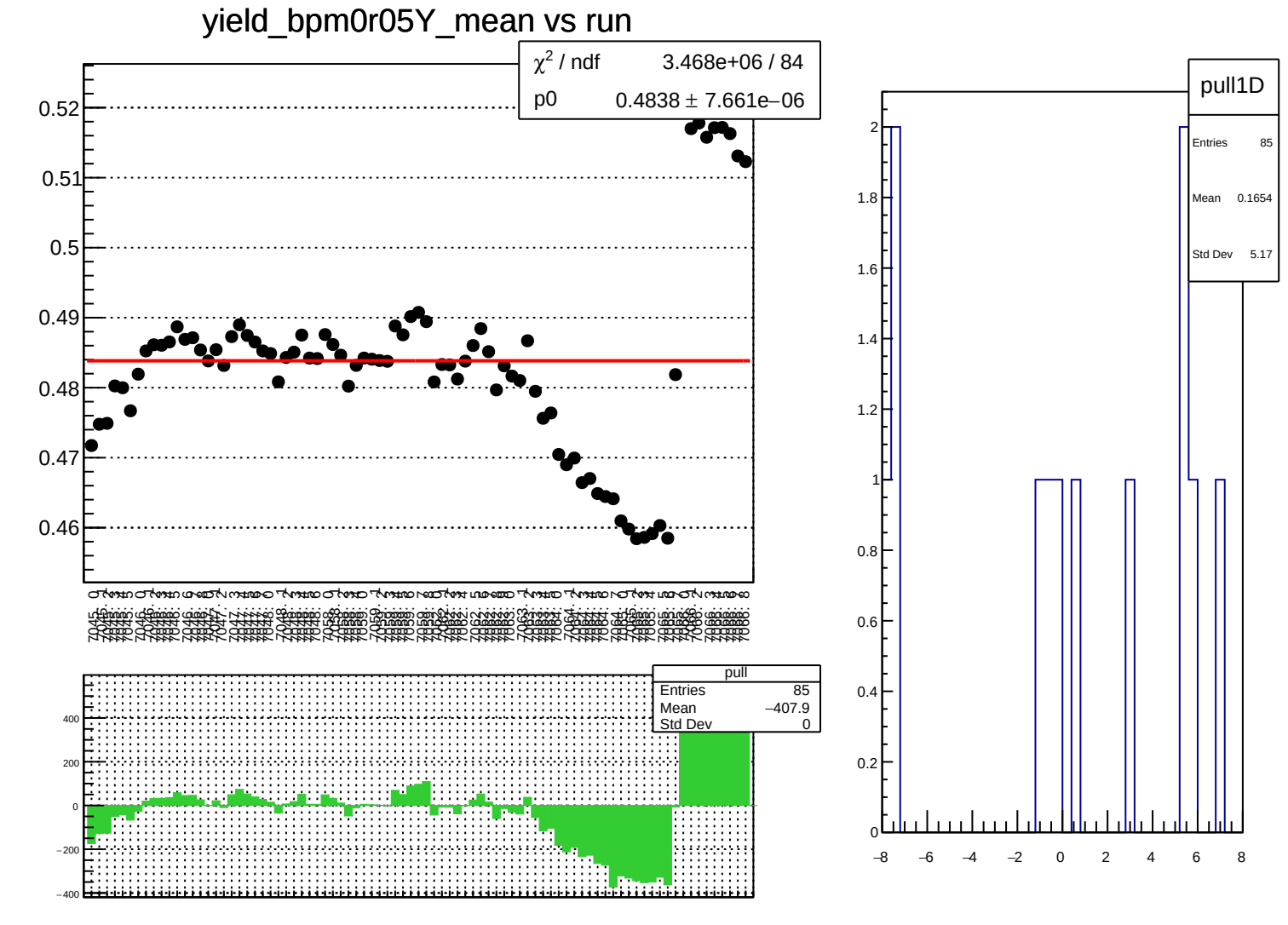

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

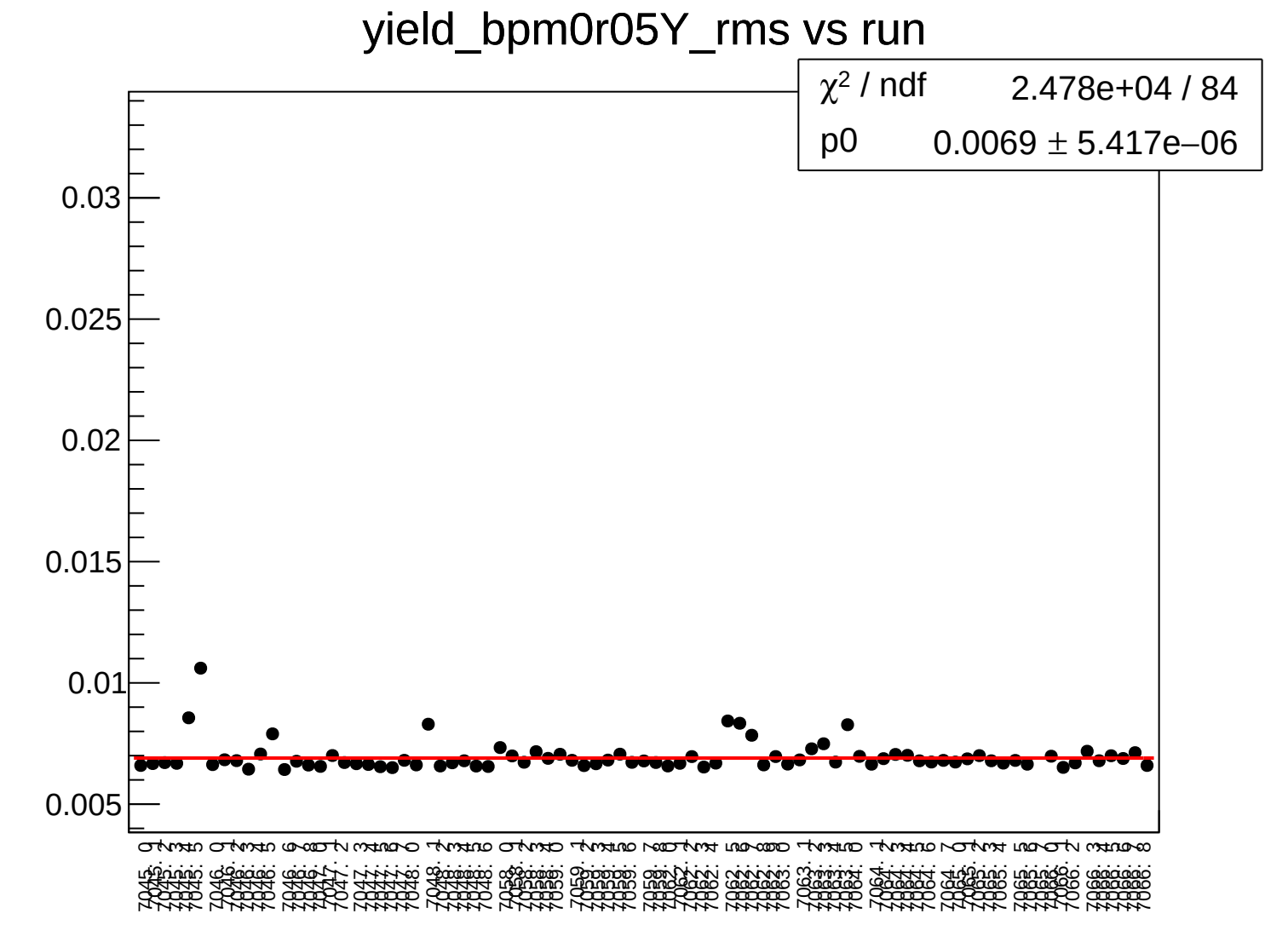

yield_bpm0r03Y_rms vs run
χ² / ndf 4.533e+04 / 84
p0 0.005593 ± 4.419e−06
0.03
0.025
0.02
0.015
0.01
0.005

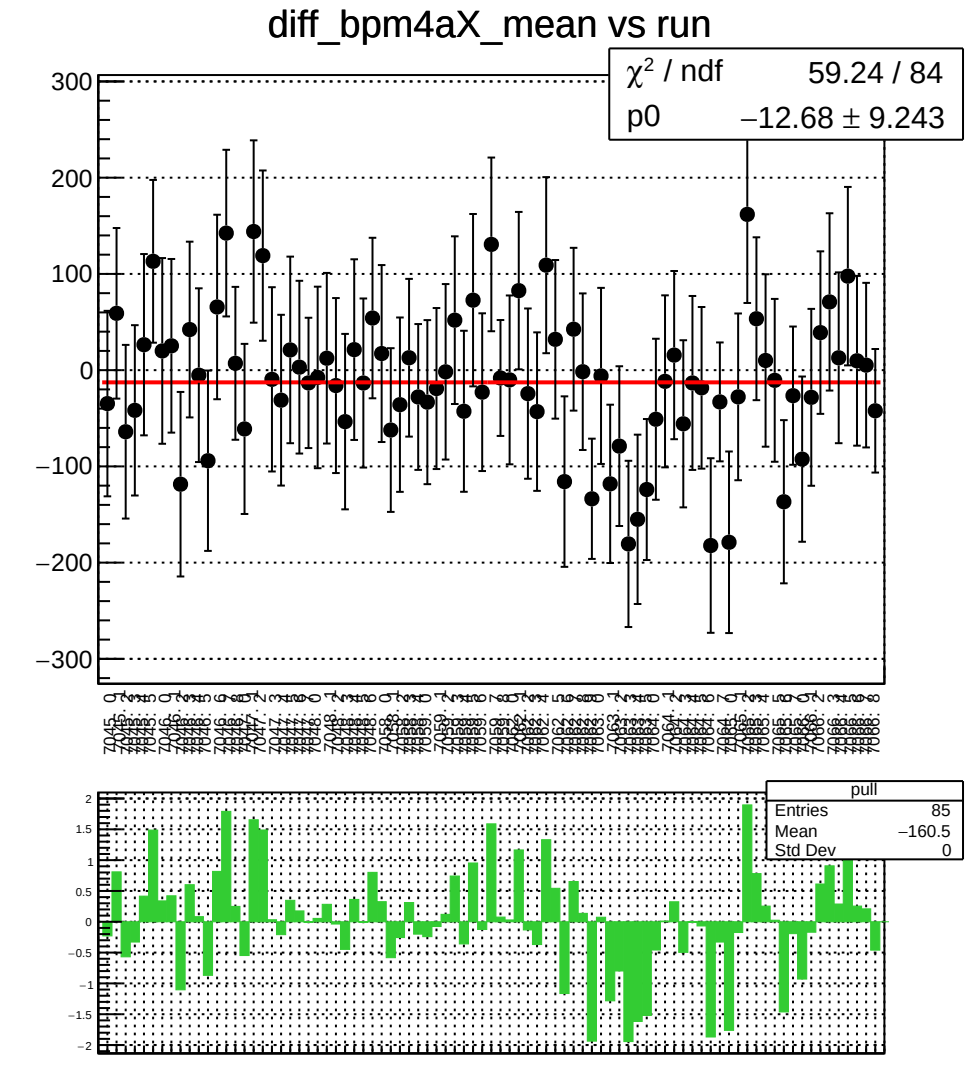

yield_bpm0r05X_mean vs run
χ² / ndf 2.771e+04 / 84
p0 −1.967 ± 0.0001027
−1.92
−1.94
−1.96
−1.98
−2
pull
Entries 85
Mean 1568
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
−40

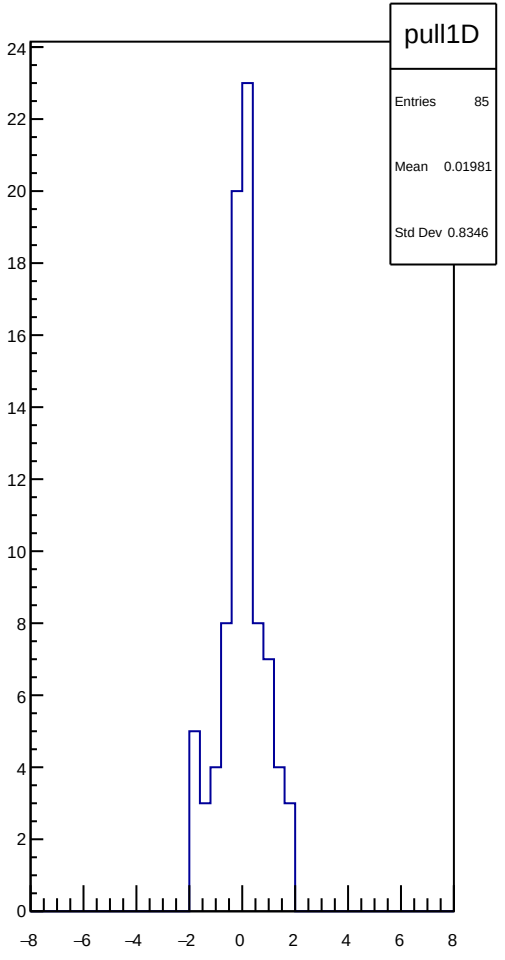

pull1D
Entries 85
Mean 0.04274
Std Dev 4.721
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

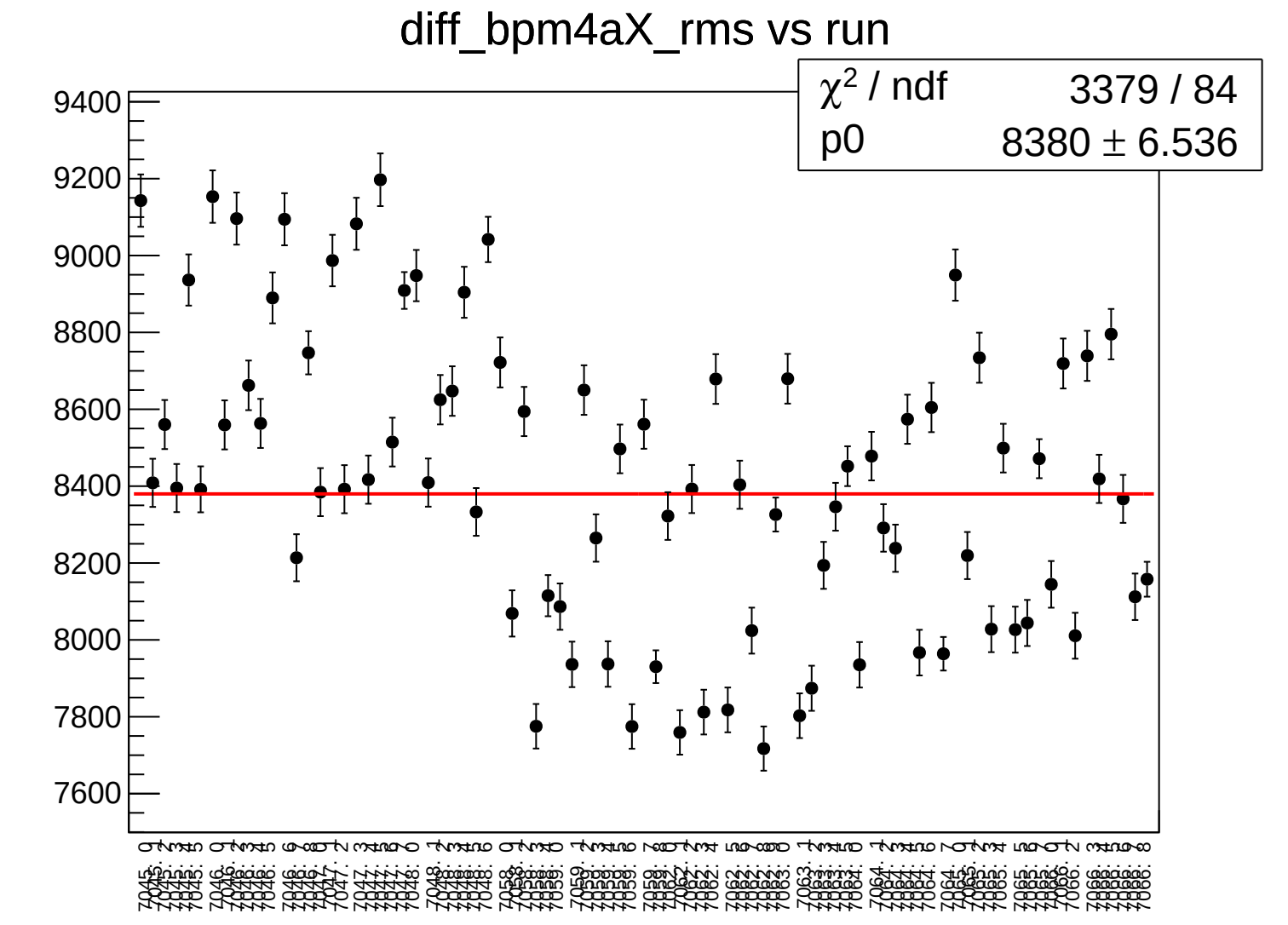

yield_bpm0r05X_rms vs run
χ² / ndf 9017 / 84
p0 0.09294 ± 7.262e−05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085

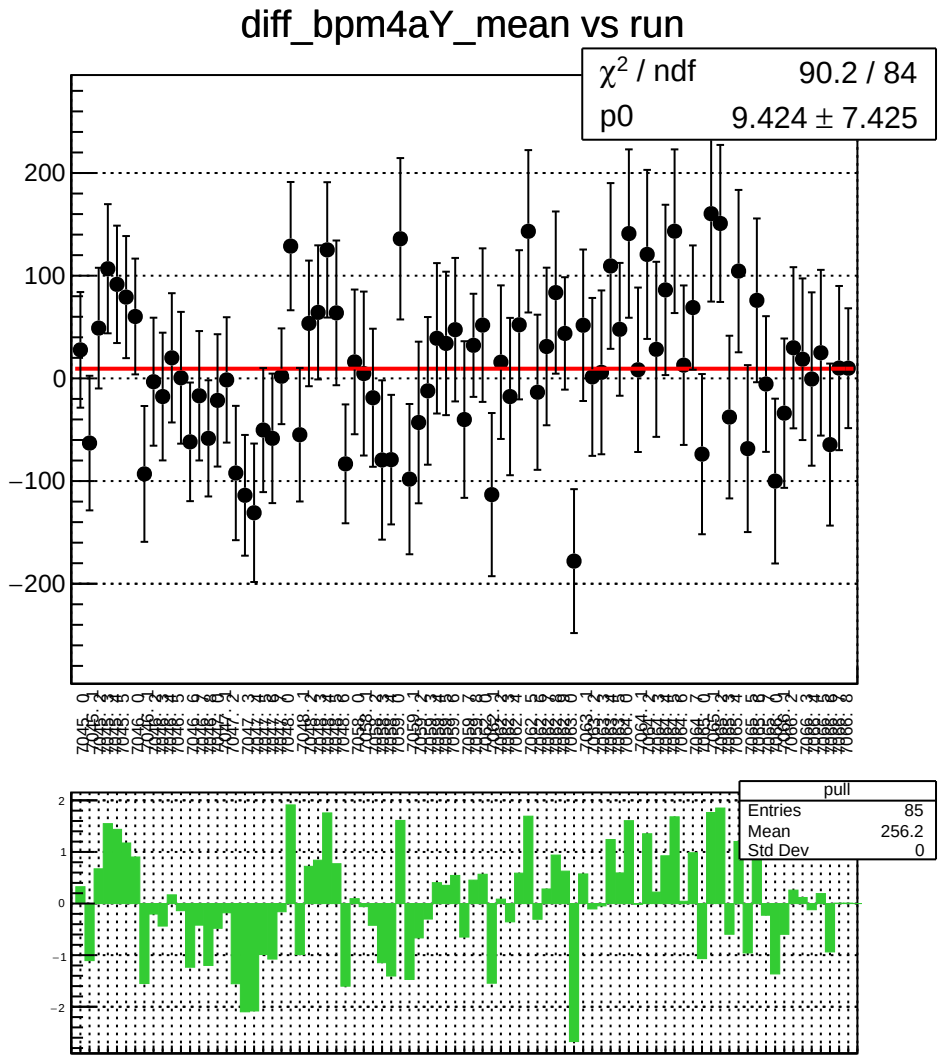

yield_bpm0r05Y_mean vs run
χ² / ndf 3.468e+06 / 84
p0 0.4838 ± 7.661e−06
0.52
0.51
0.5
0.49
0.48
0.47
0.46
pull
Entries 85
Mean −407.9
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 85
Mean 0.1654
Std Dev 5.17
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

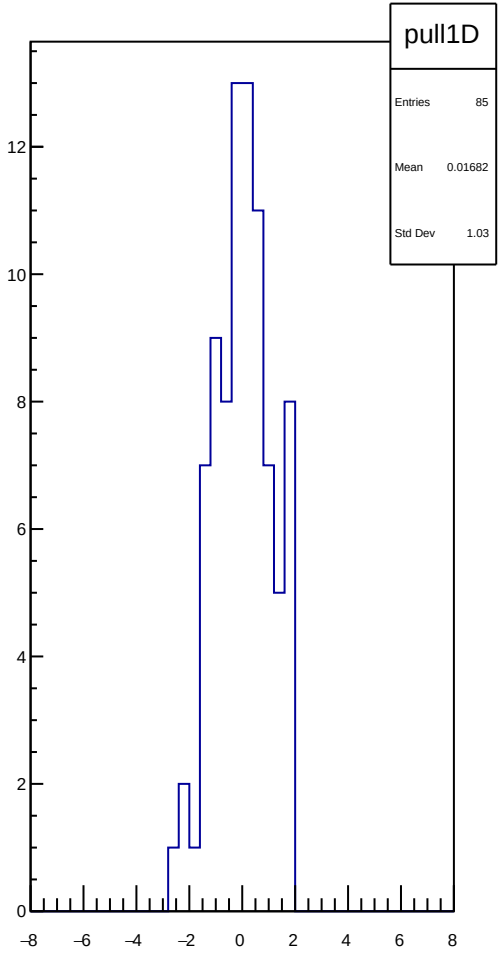

yield_bpm0r05Y_rms vs run
χ² / ndf 2.478e+04 / 84
p0 0.0069 ± 5.417e−06
0.03
0.025
0.02
0.015
0.01
0.005

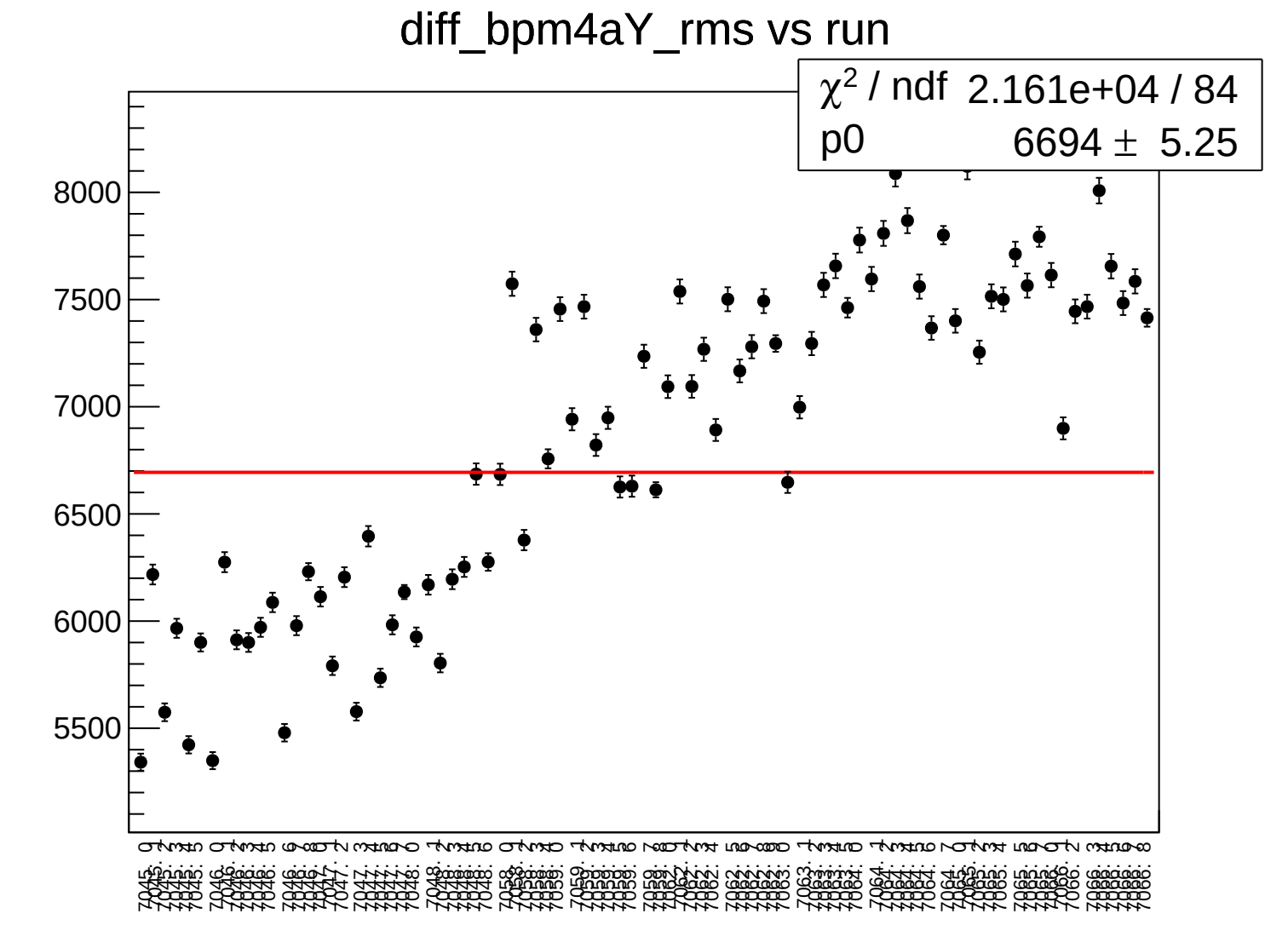

diff_bpm4aX_mean vs run
χ² / ndf 59.24 / 84
p0 −12.68 ± 9.243
pull
Entries 85
Mean −160.5
Std Dev 0

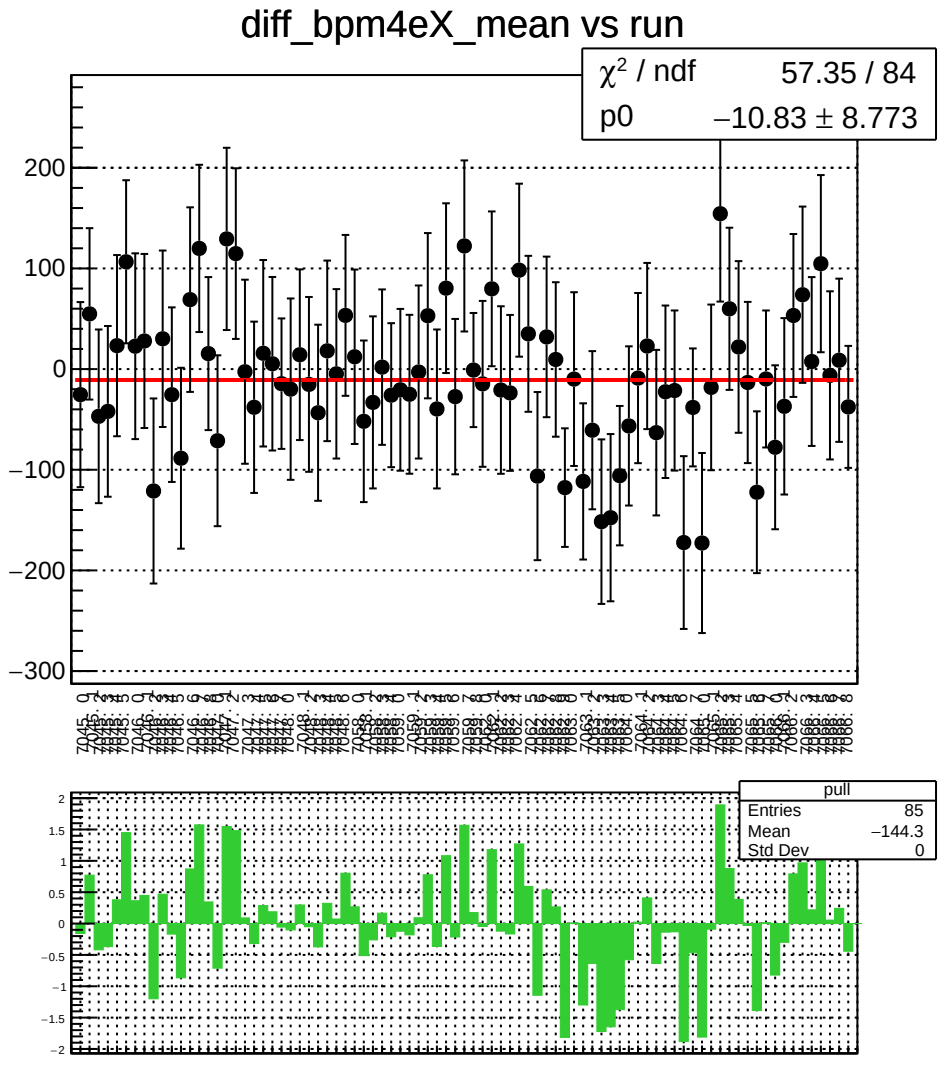

pull1D
Entries 85
Mean 0.01981
Std Dev 0.8346

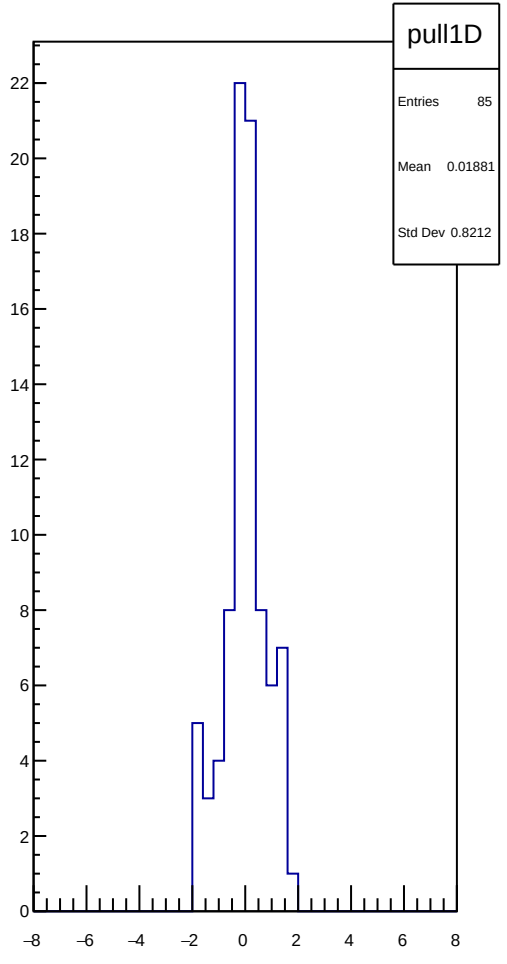

diff_bpm4aX_rms vs run
χ² / ndf 3379 / 84
p0 8380 ± 6.536
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

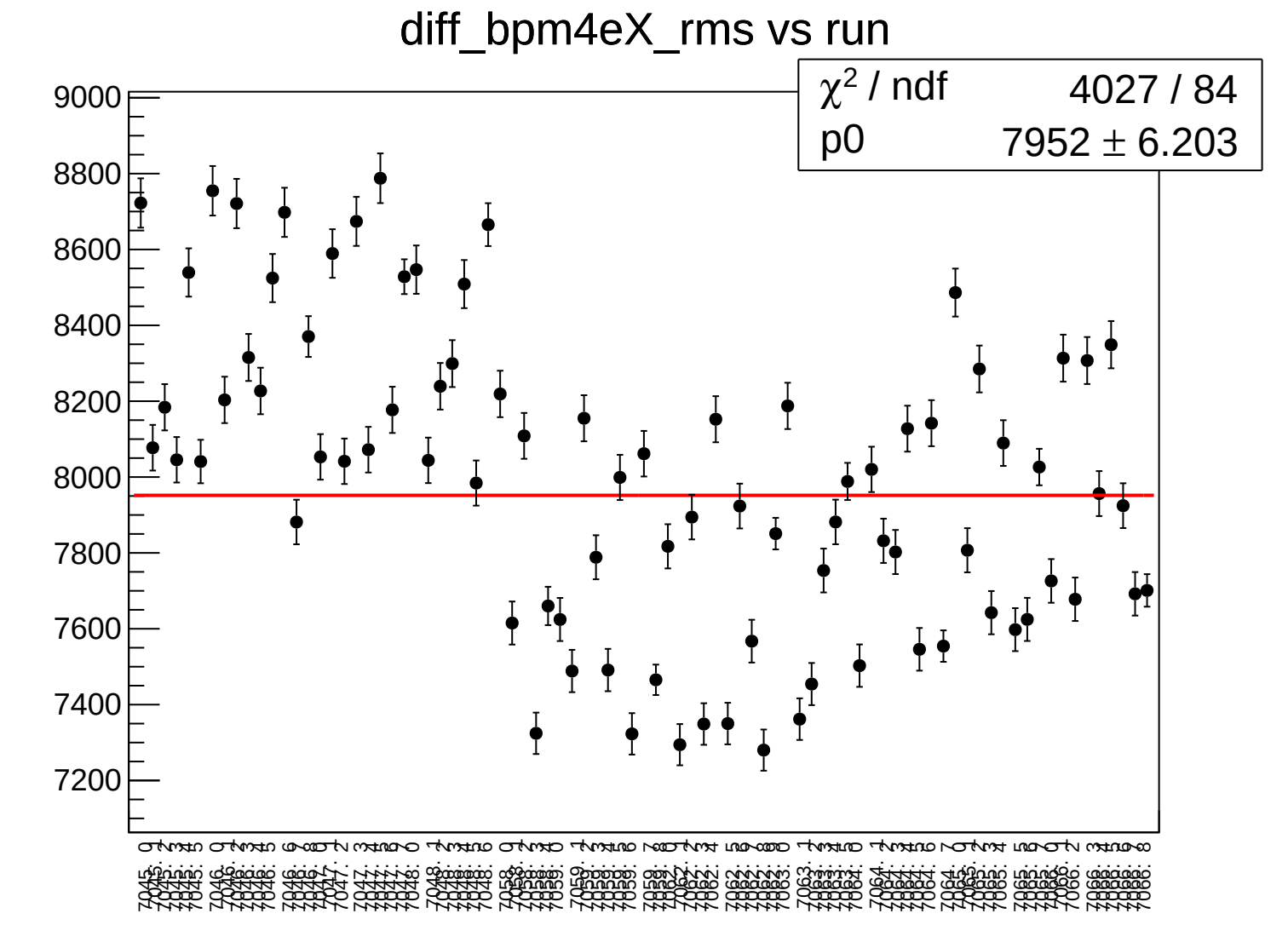

diff_bpm4aY_mean vs run
χ^2 / ndf 90.2 / 84
p0 9.424 ± 7.425
200
100
0
−100
−200
pull
Entries 85
Mean 256.2
Std Dev 0
2
1
0
−1
−2

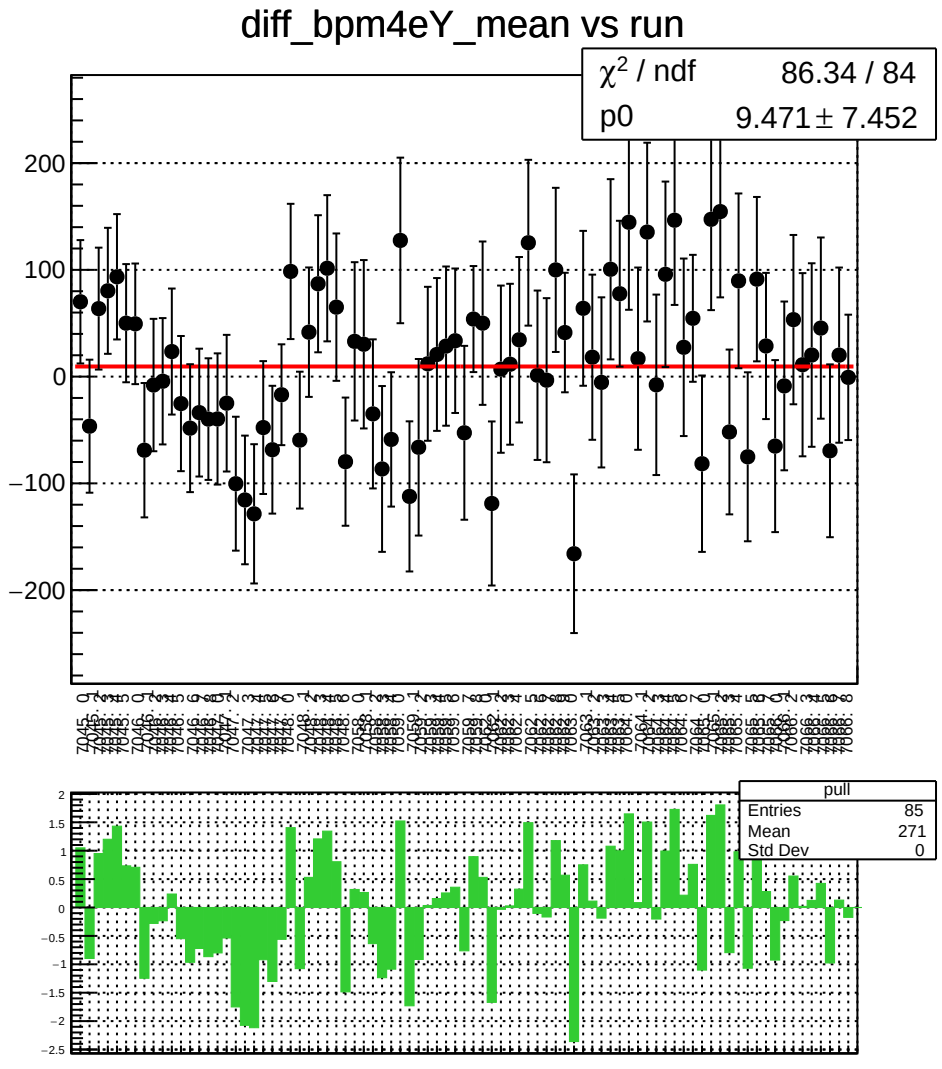

pull1D
Entries 85
Mean 0.01682
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

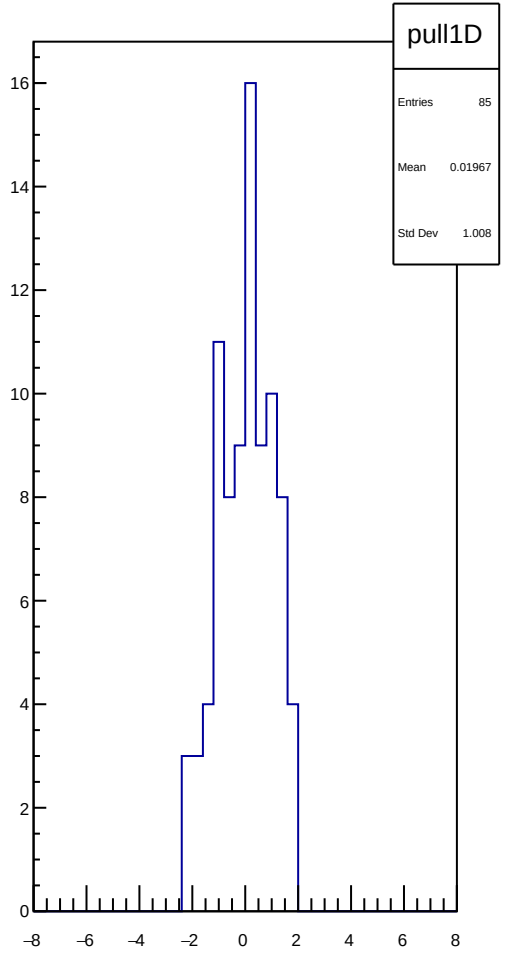

diff_bpm4aY_rms vs run
χ² / ndf 2.161e+04 / 84
p0 6694 ± 5.25
8000
7500
7000
6500
6000
5500

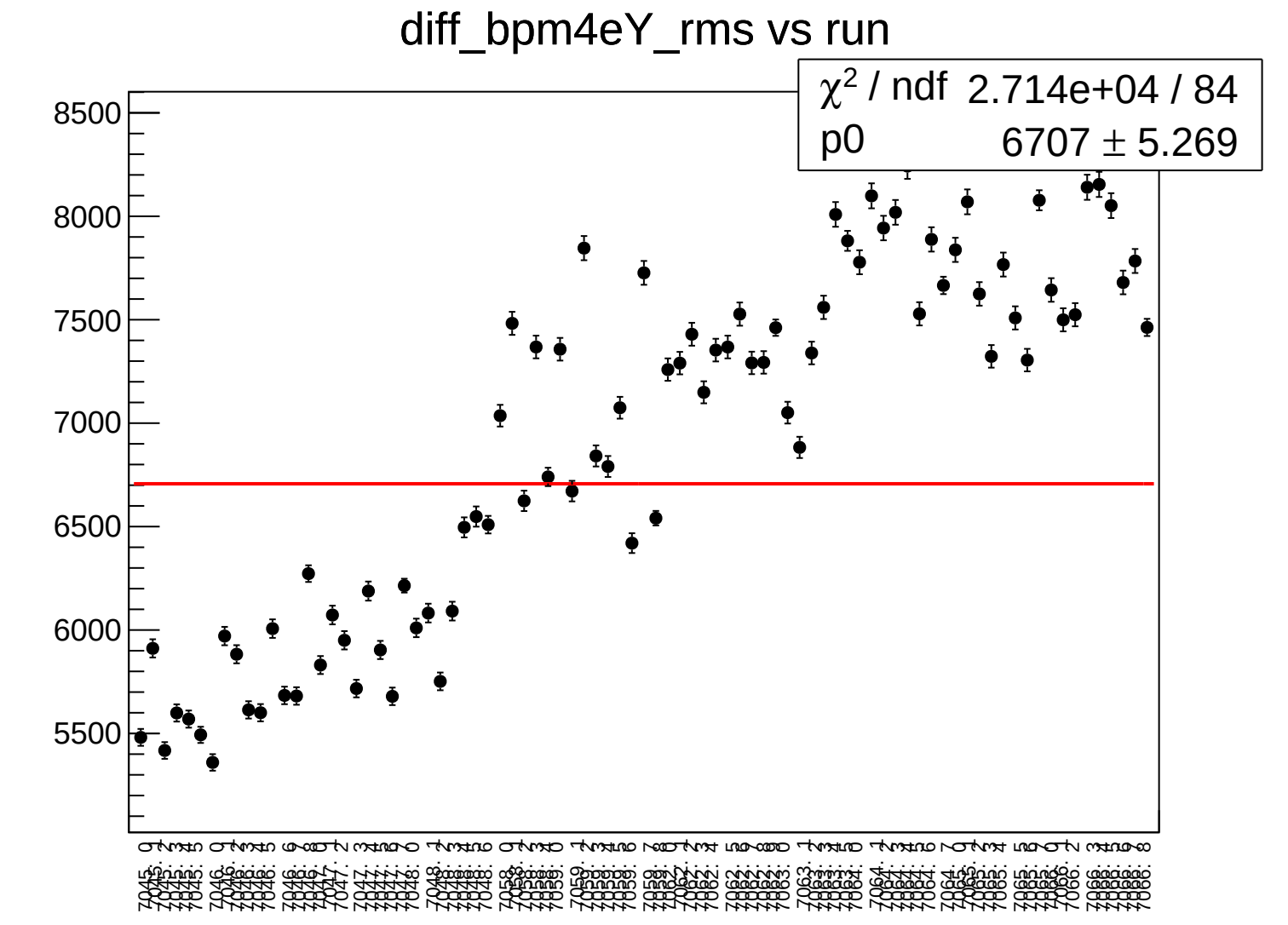

diff_bpm4eX_mean vs run
χ² / ndf 57.35 / 84
p0 −10.83 ± 8.773
200
100
0
−100
−200
−300
pull
Entries 85
Mean −144.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

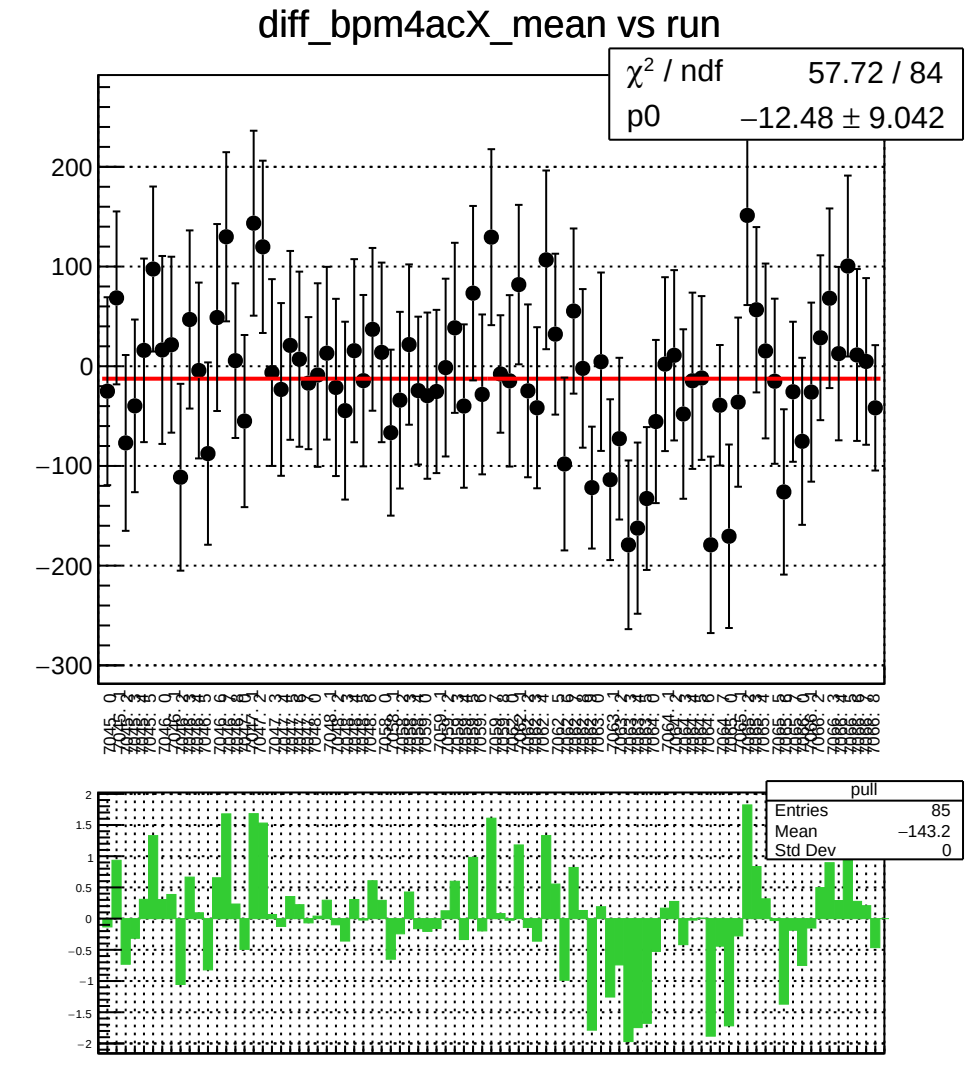

pull1D
Entries 85
Mean 0.01881
Std Dev 0.8212
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

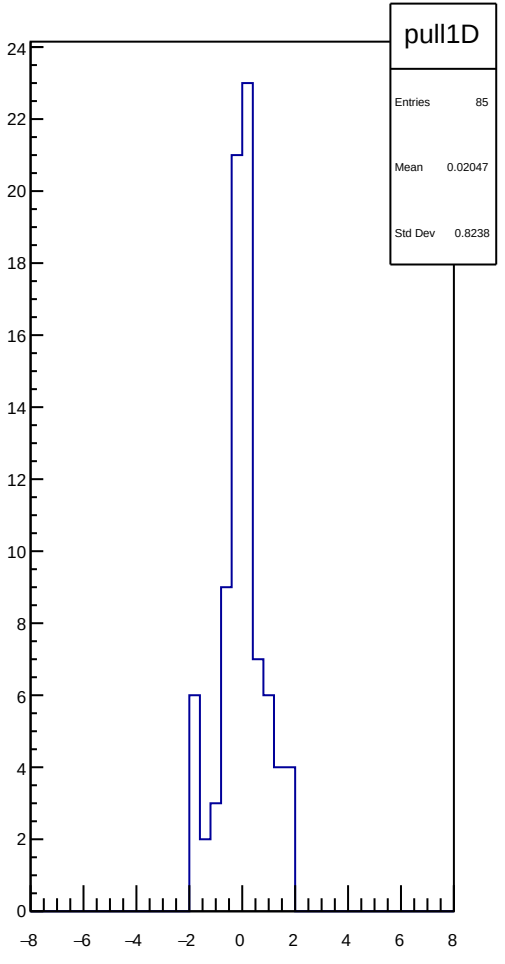

diff_bpm4eX_rms vs run
χ² / ndf 4027 / 84
p0 7952 ± 6.203
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

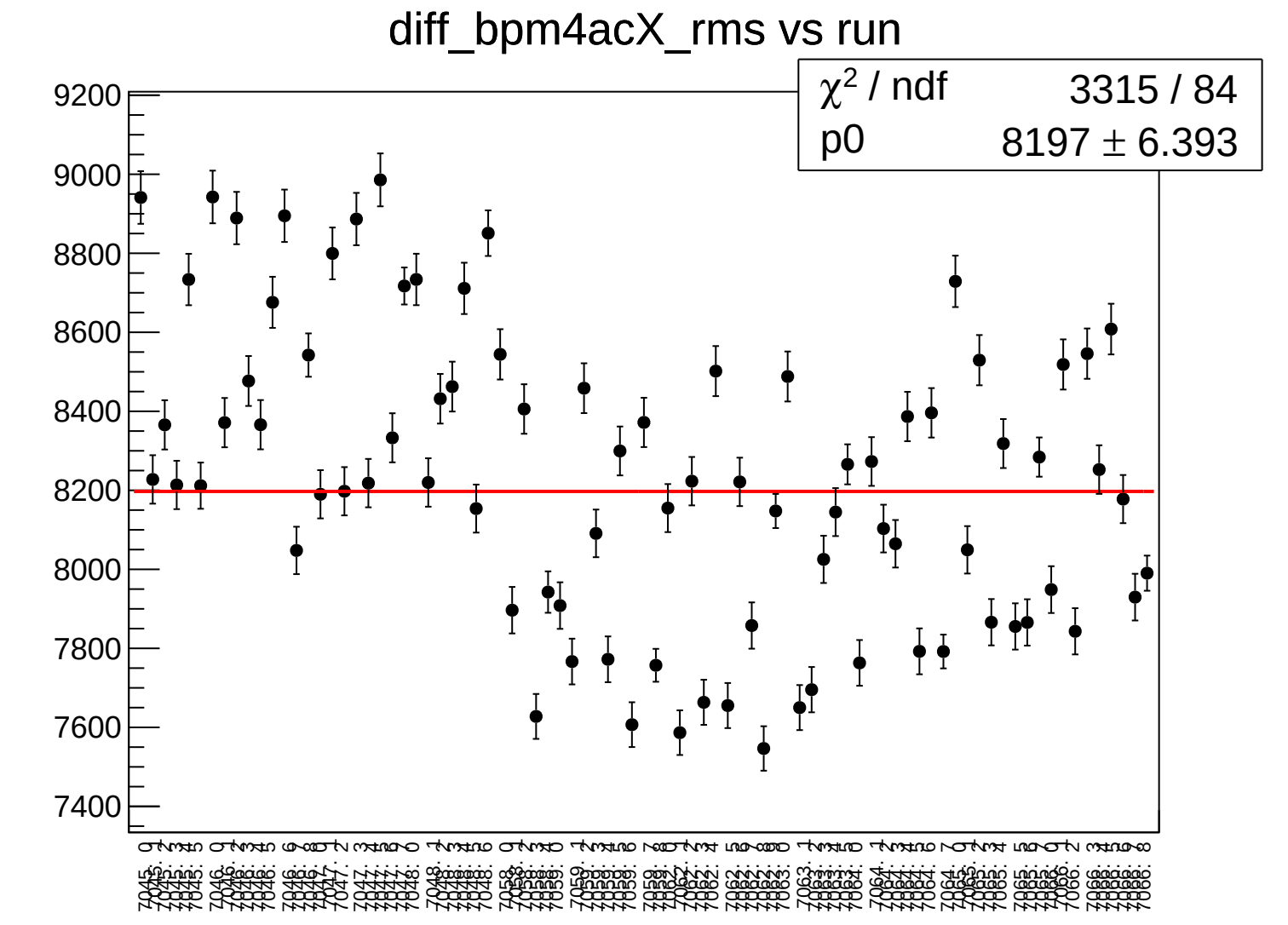

diff_bpm4eY_mean vs run
χ² / ndf 86.34 / 84
p0 9.471 ± 7.452
200
100
0
−100
−200
pull
Entries 85
Mean 271
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

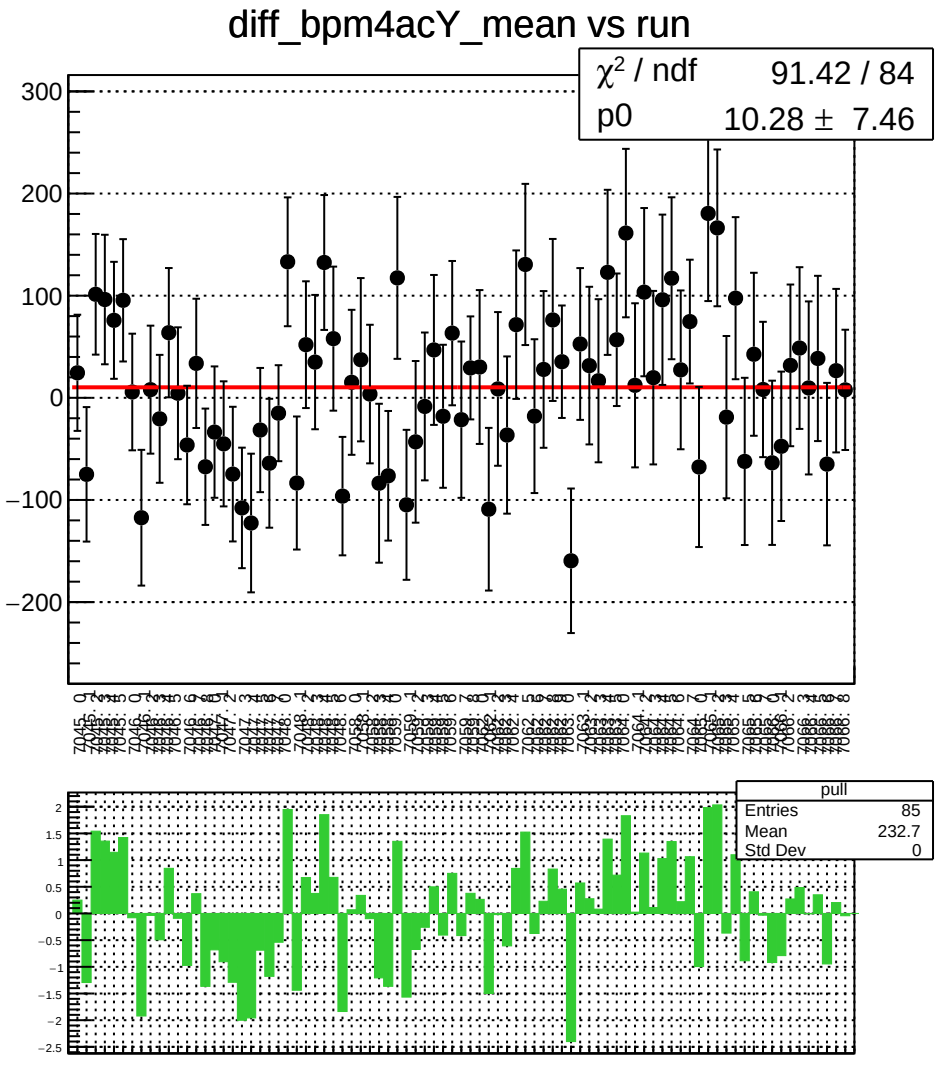

pull1D
Entries 85
Mean 0.01967
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

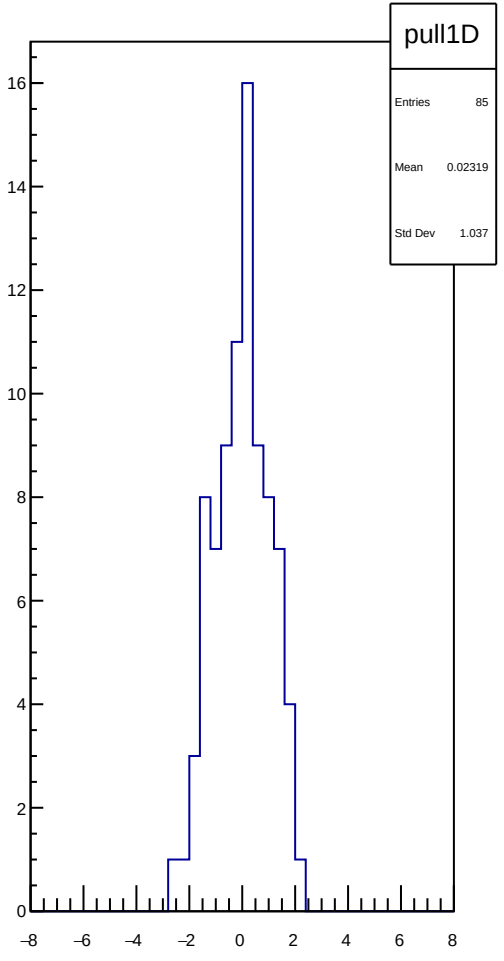

diff_bpm4eY_rms vs run
χ^2 / ndf 2.714e+04 / 84
p0 6707 ± 5.269
8500
8000
7500
7000
6500
6000
5500

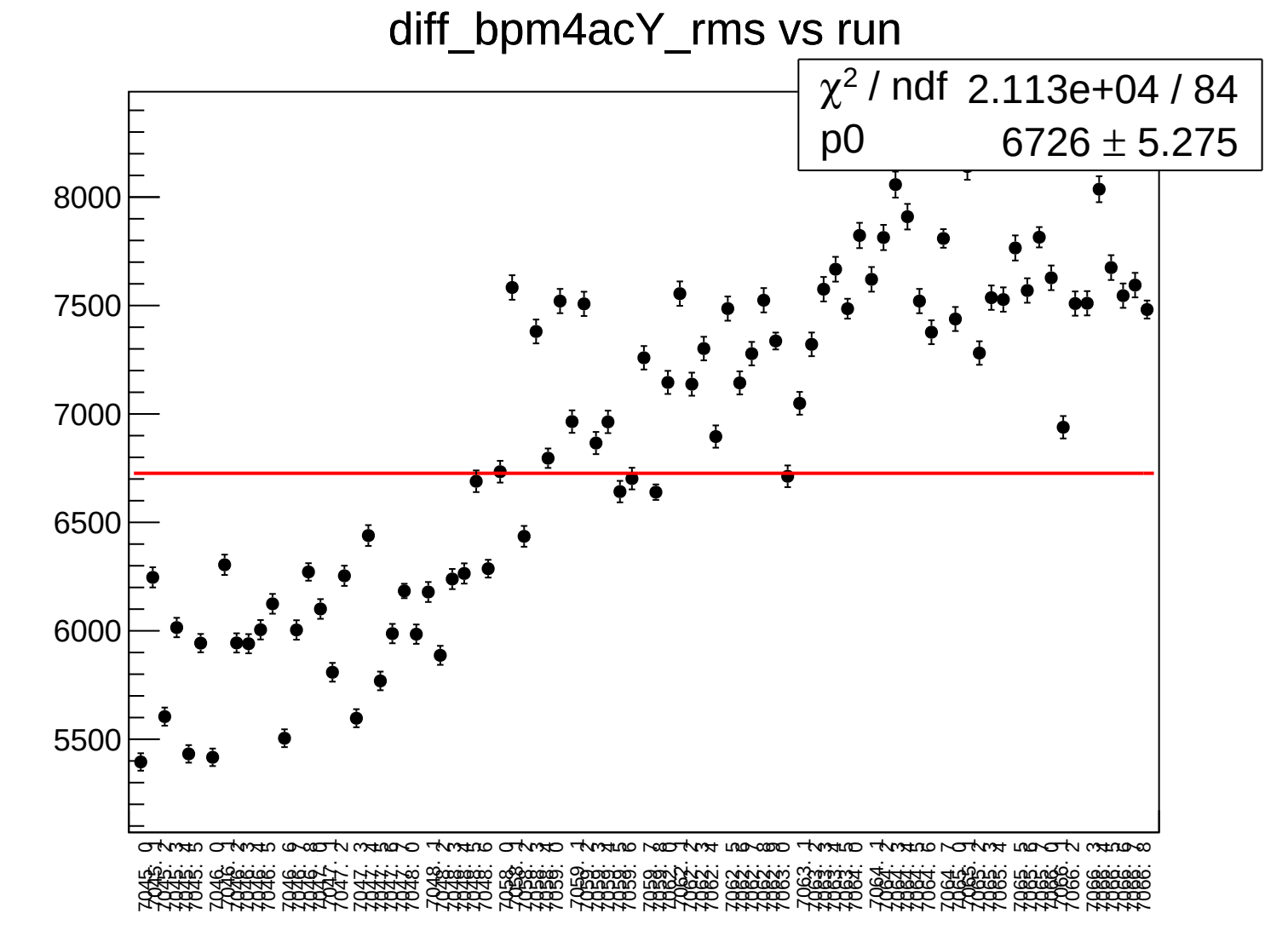

diff_bpm4acX_mean vs run
χ² / ndf 57.72 / 84
p0 −12.48 ± 9.042
200
100
0
−100
−200
−300
pull
Entries 85
Mean −143.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

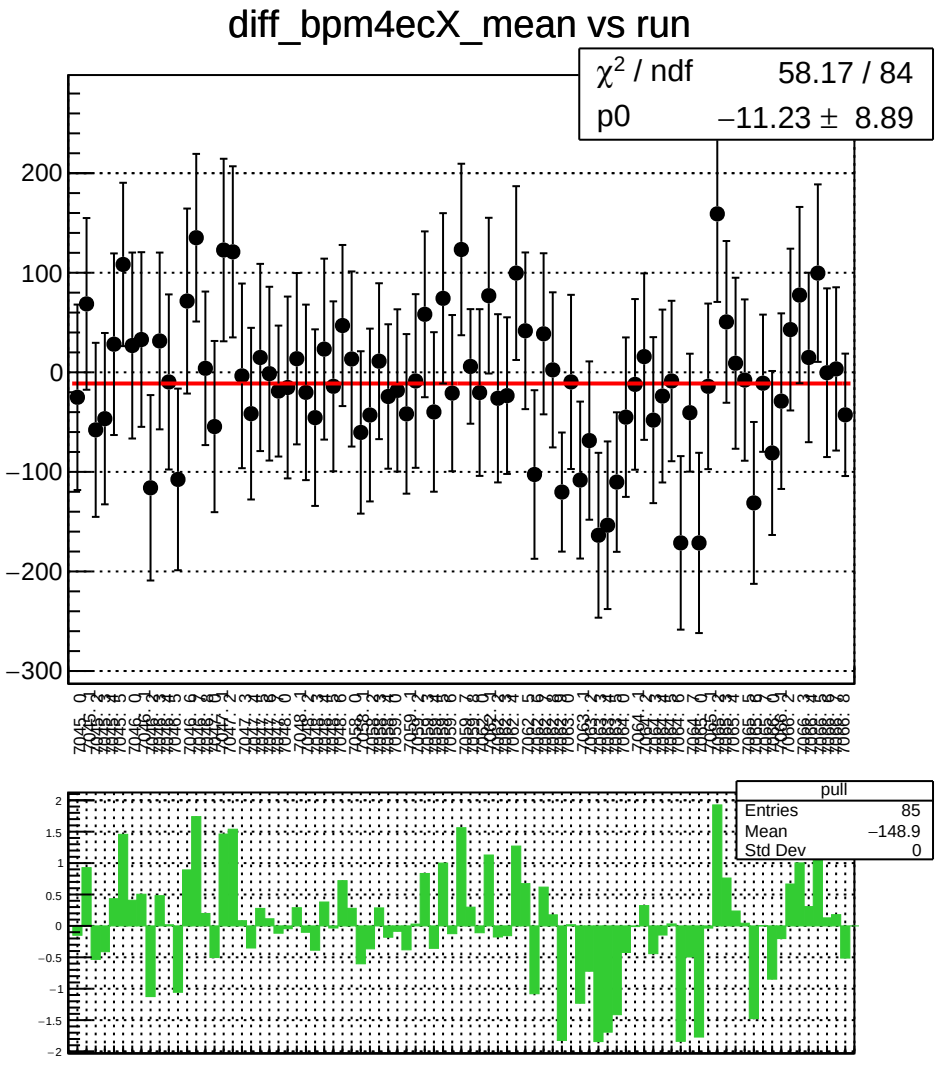

pull1D
Entries 85
Mean 0.02047
Std Dev 0.8238
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

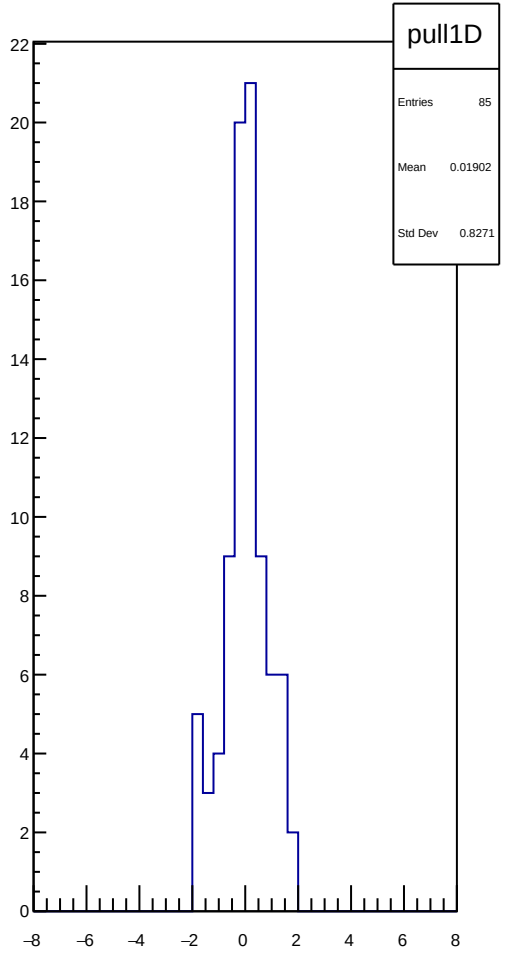

diff_bpm4acX_rms vs run
χ^2 / ndf 3315 / 84
p0 8197 ± 6.393
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

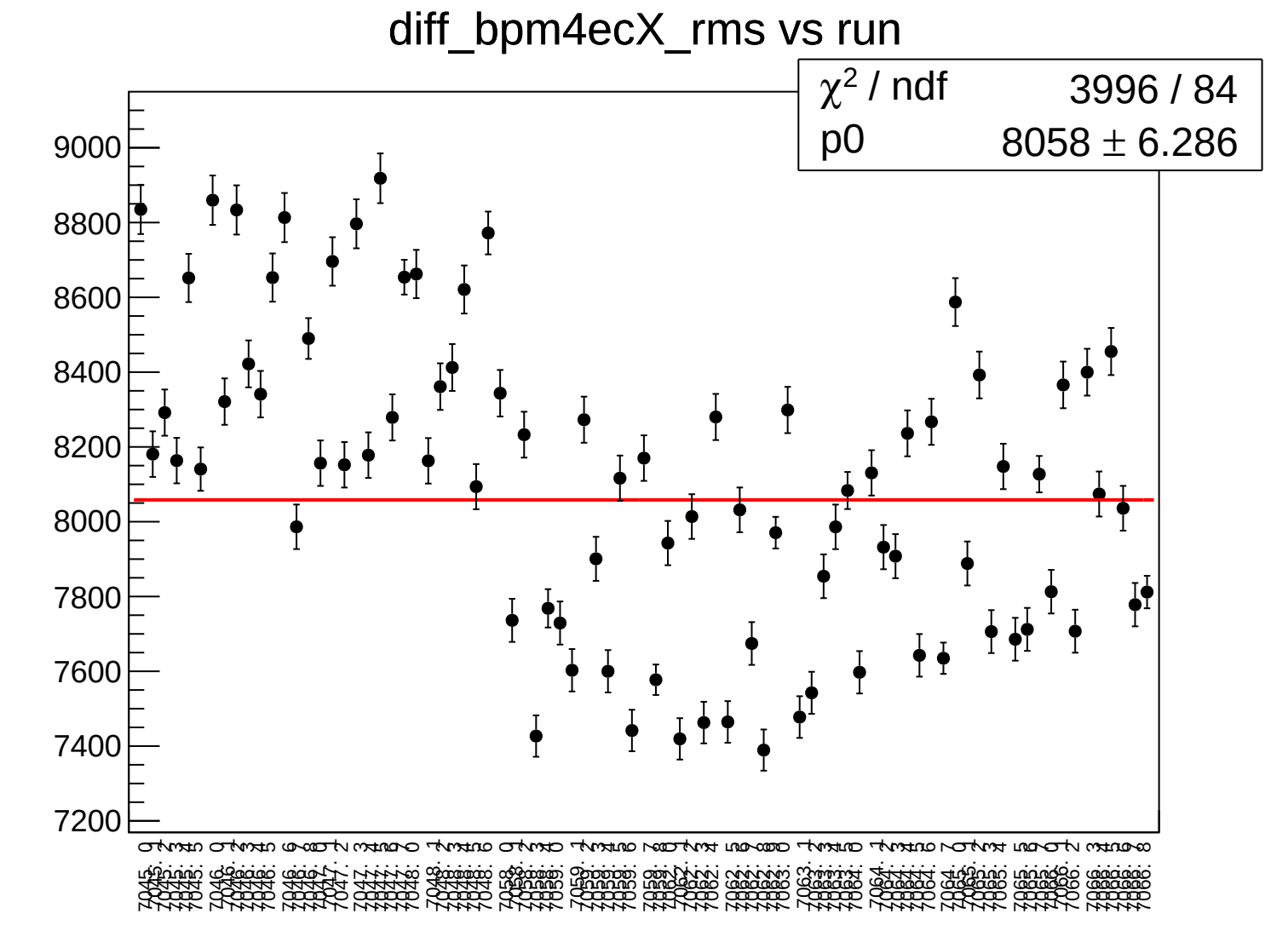

diff_bpm4acY_mean vs run
χ² / ndf 91.42 / 84
p0 10.28 ± 7.46
pull
Entries 85
Mean 232.7
Std Dev 0

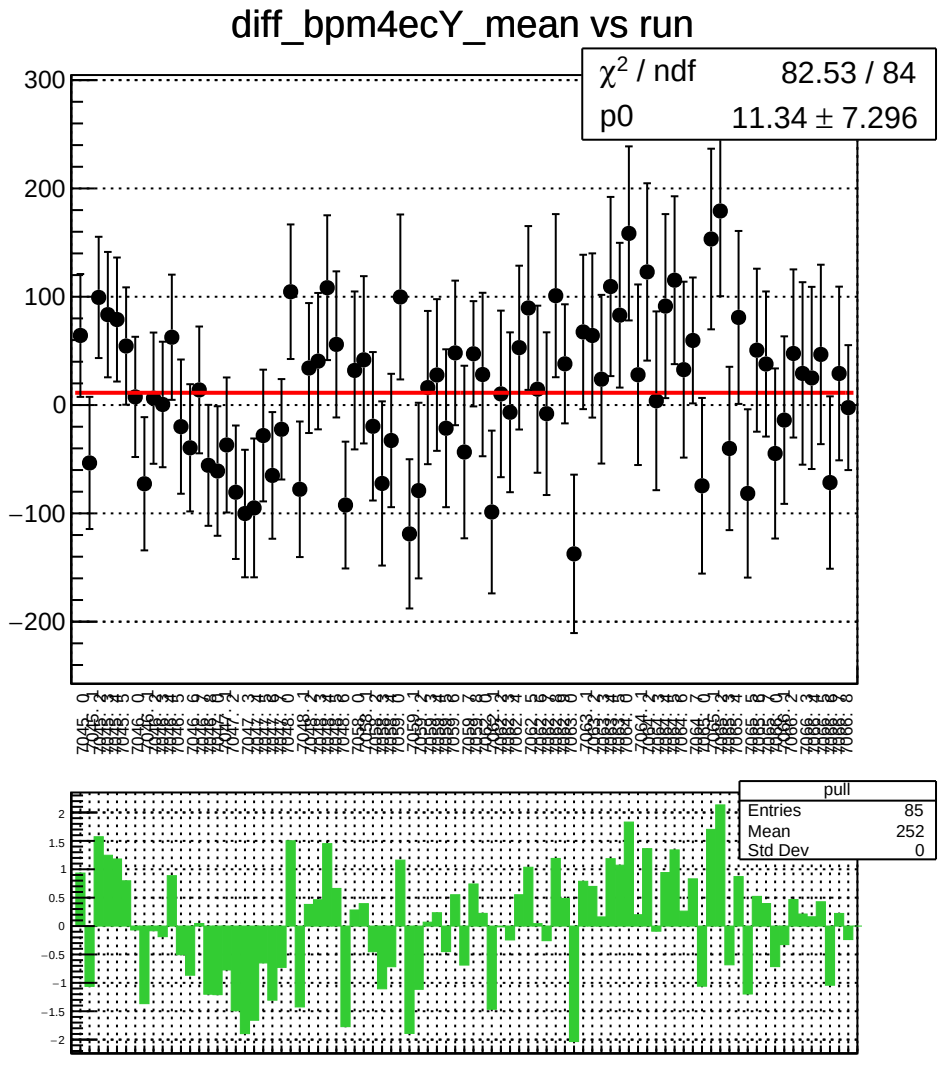

pull1D
Entries 85
Mean 0.02319
Std Dev 1.037

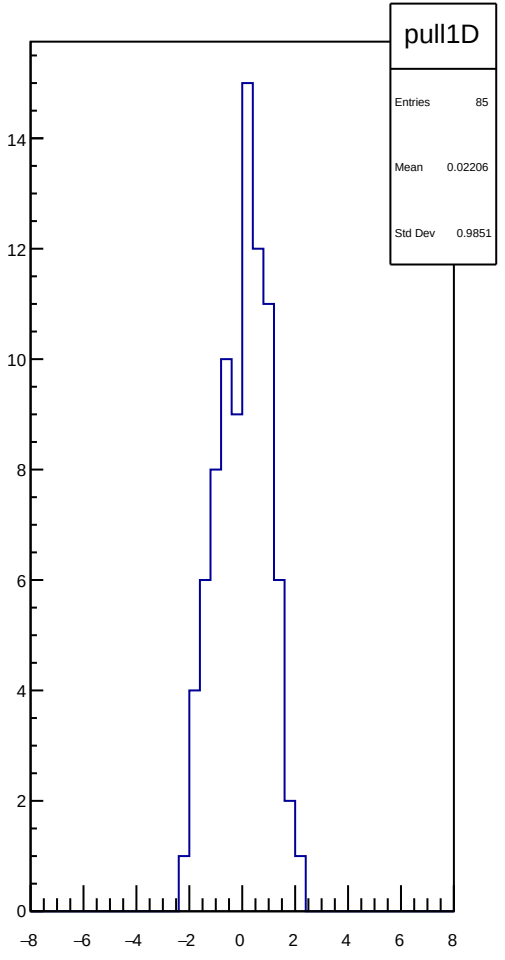

diff_bpm4acY_rms vs run
χ² / ndf 2.113e+04 / 84
p0 6726 ± 5.275
8000
7500
7000
6500
6000
5500

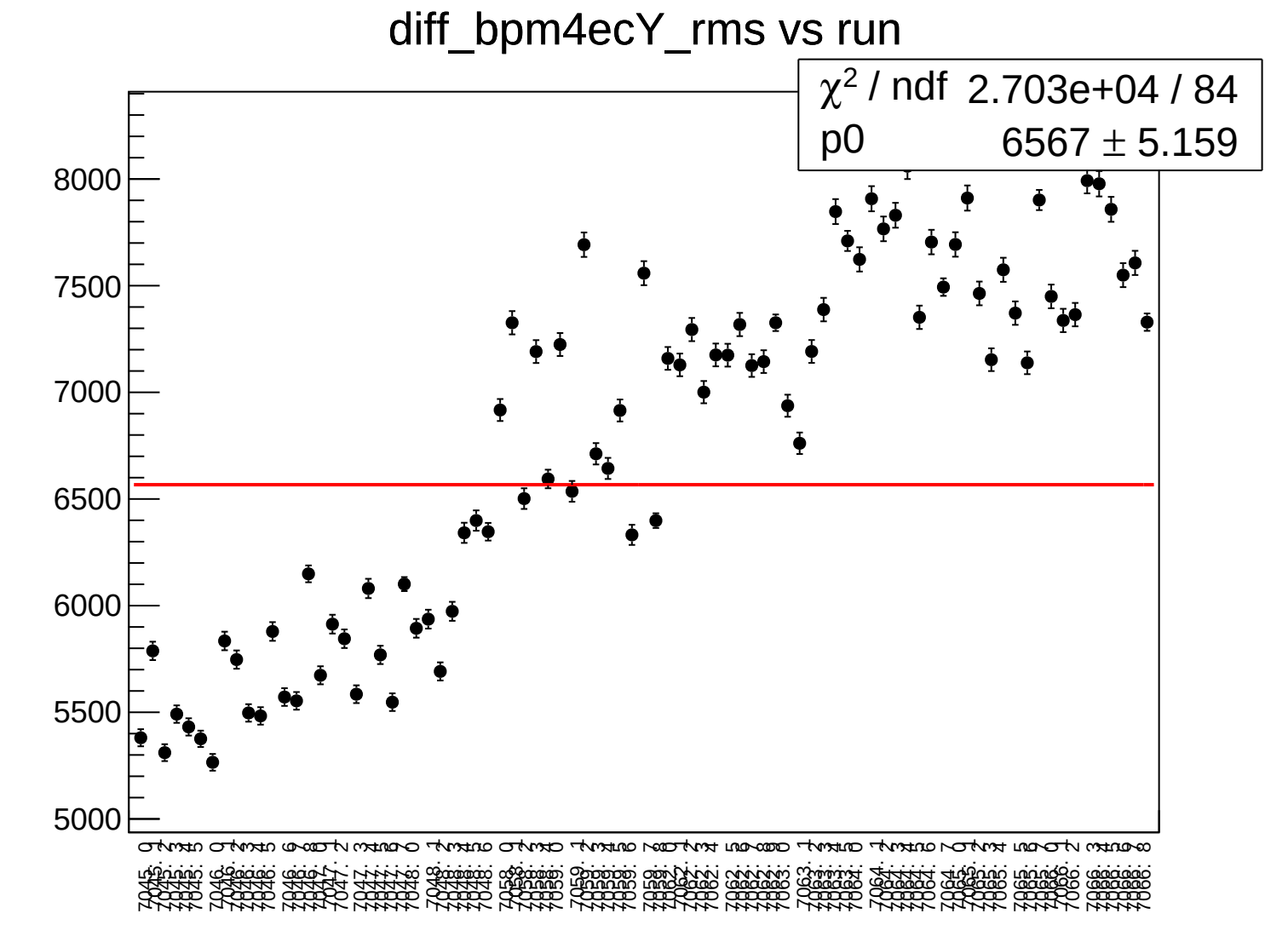

diff_bpm4ecX_mean vs run
χ² / ndf 58.17 / 84
p0 −11.23 ± 8.89
200
100
0
−100
−200
−300
pull
Entries 85
Mean −148.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

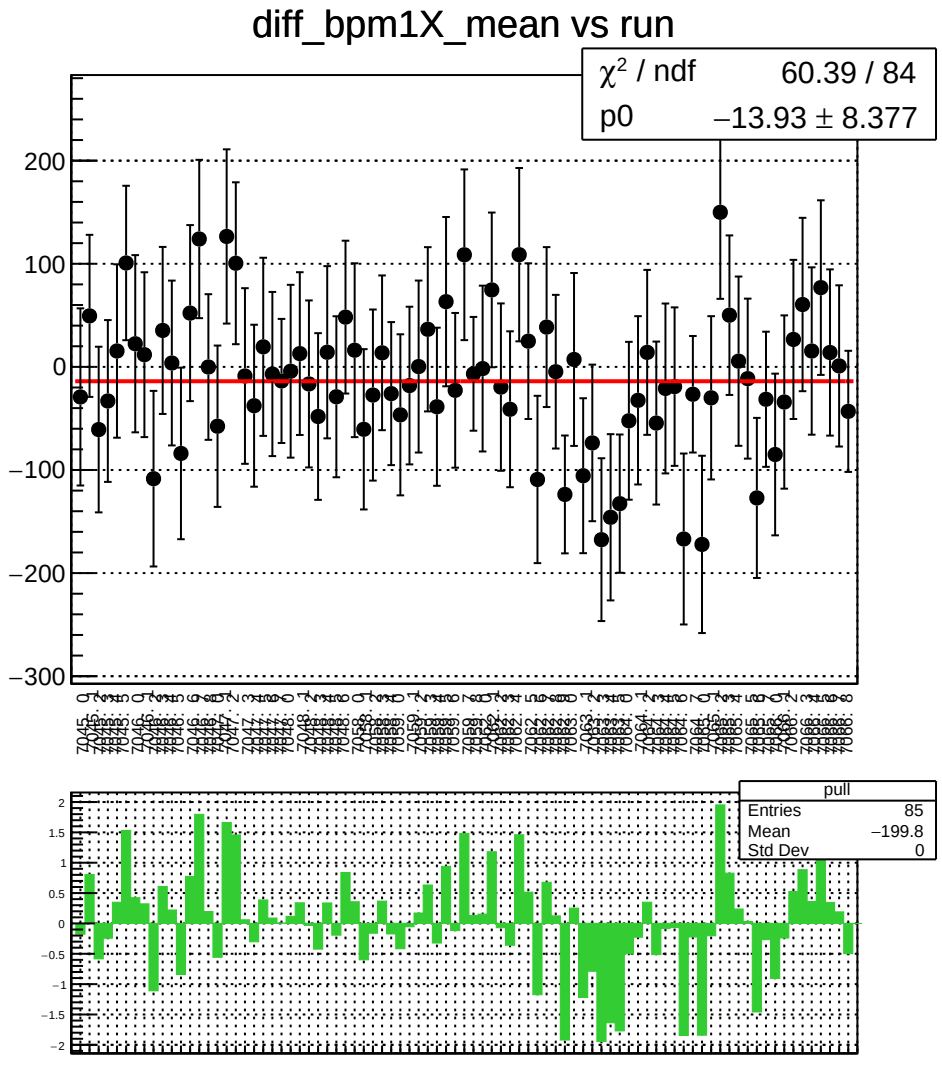

pull1D
Entries 85
Mean 0.01902
Std Dev 0.8271
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

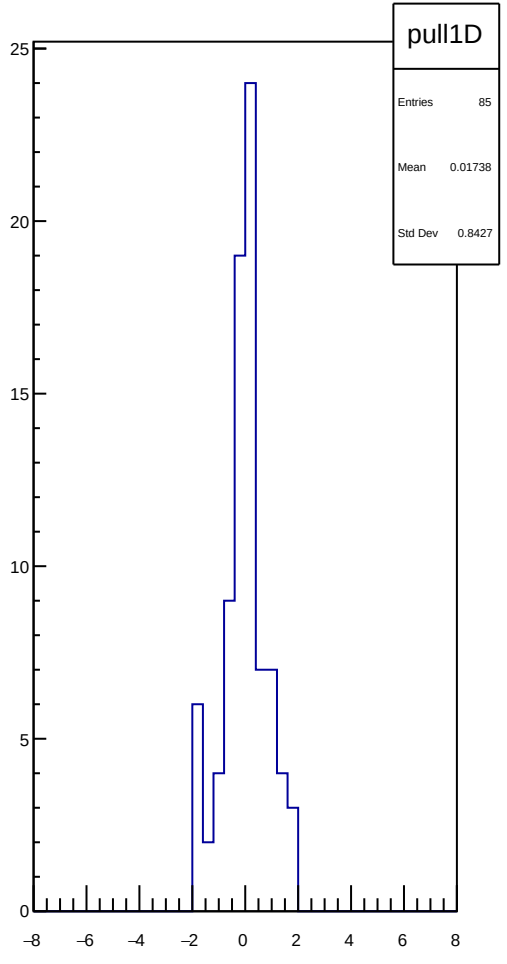

diff_bpm4ecX_rms vs run
χ² / ndf 3996 / 84
p0 8058 ± 6.286
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

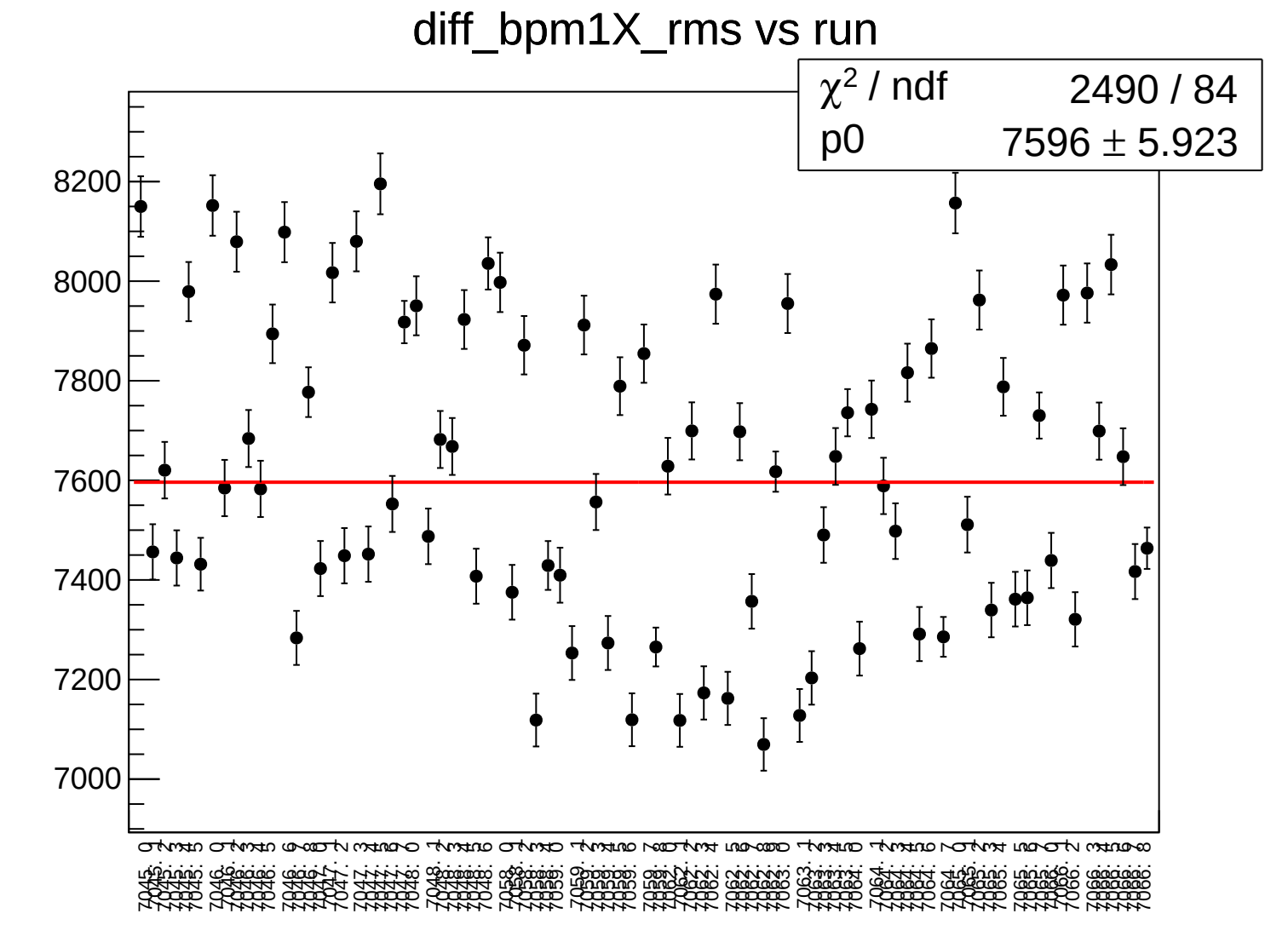

diff_bpm4ecY_mean vs run
χ² / ndf 82.53 / 84
p0 11.34 ± 7.296
pull
Entries 85
Mean 252
Std Dev 0

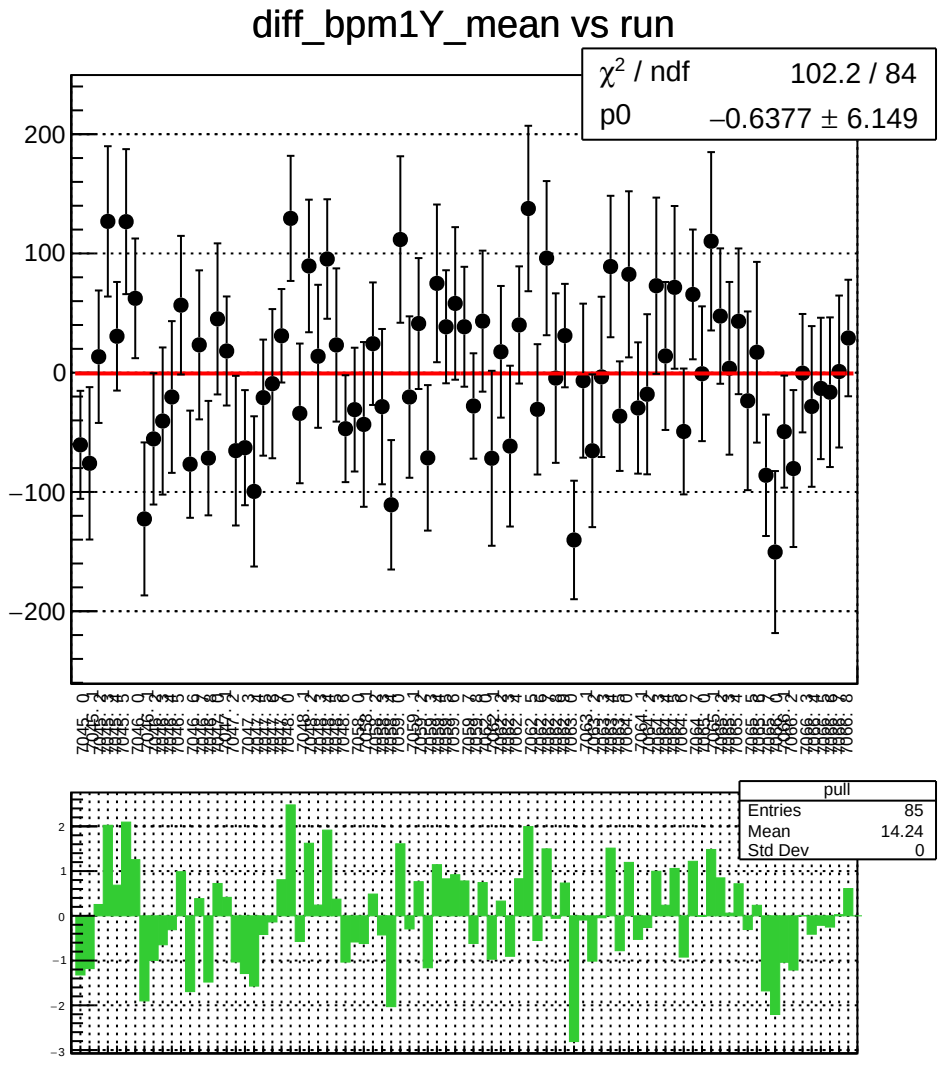

pull1D
Entries 85
Mean 0.02206
Std Dev 0.9851

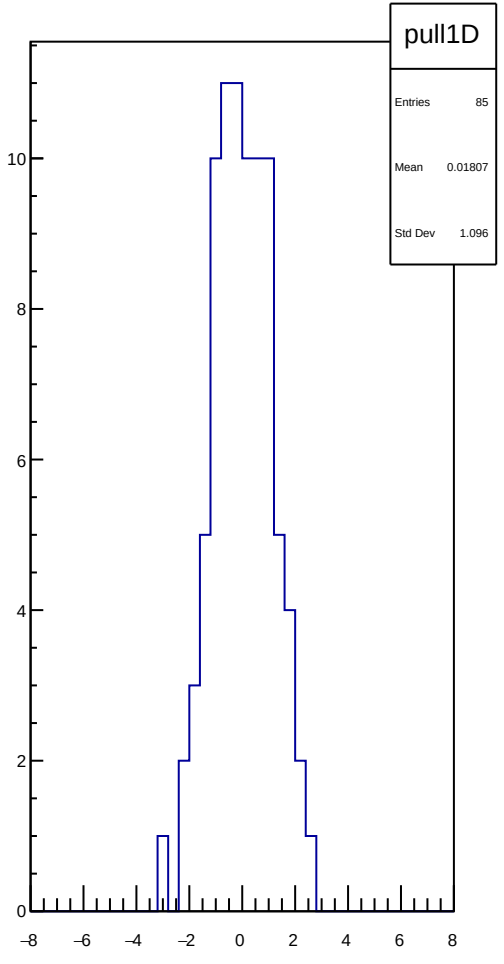

diff_bpm4ecY_rms vs run
χ^2 / ndf 2.703e+04 / 84
p0 6567 ± 5.159
8000
7500
7000
6500
6000
5500
5000

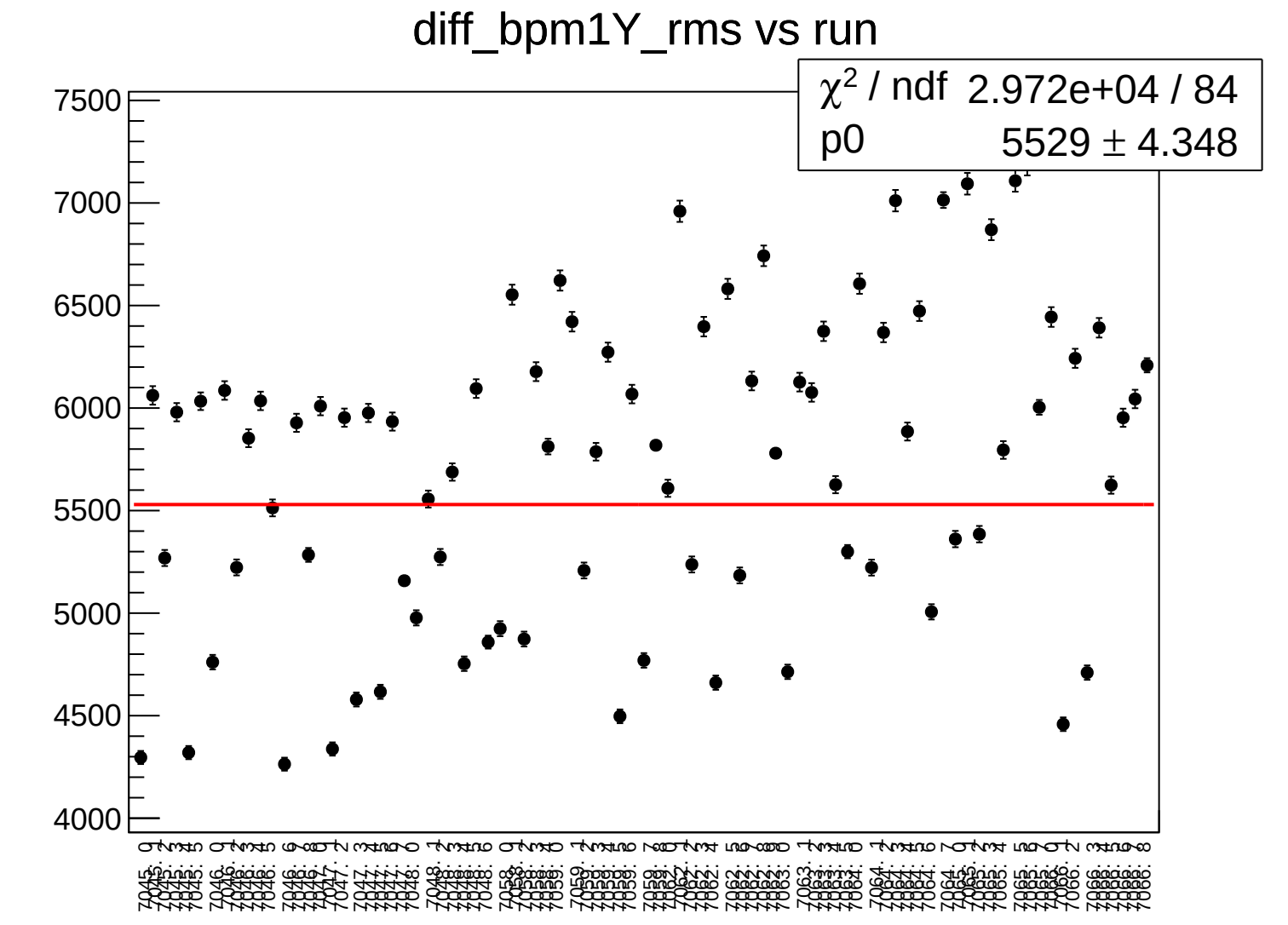

diff_bpm1X_mean vs run
χ² / ndf 60.39 / 84
p0 −13.93 ± 8.377
200
100
0
−100
−200
−300
pull
Entries 85
Mean −199.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

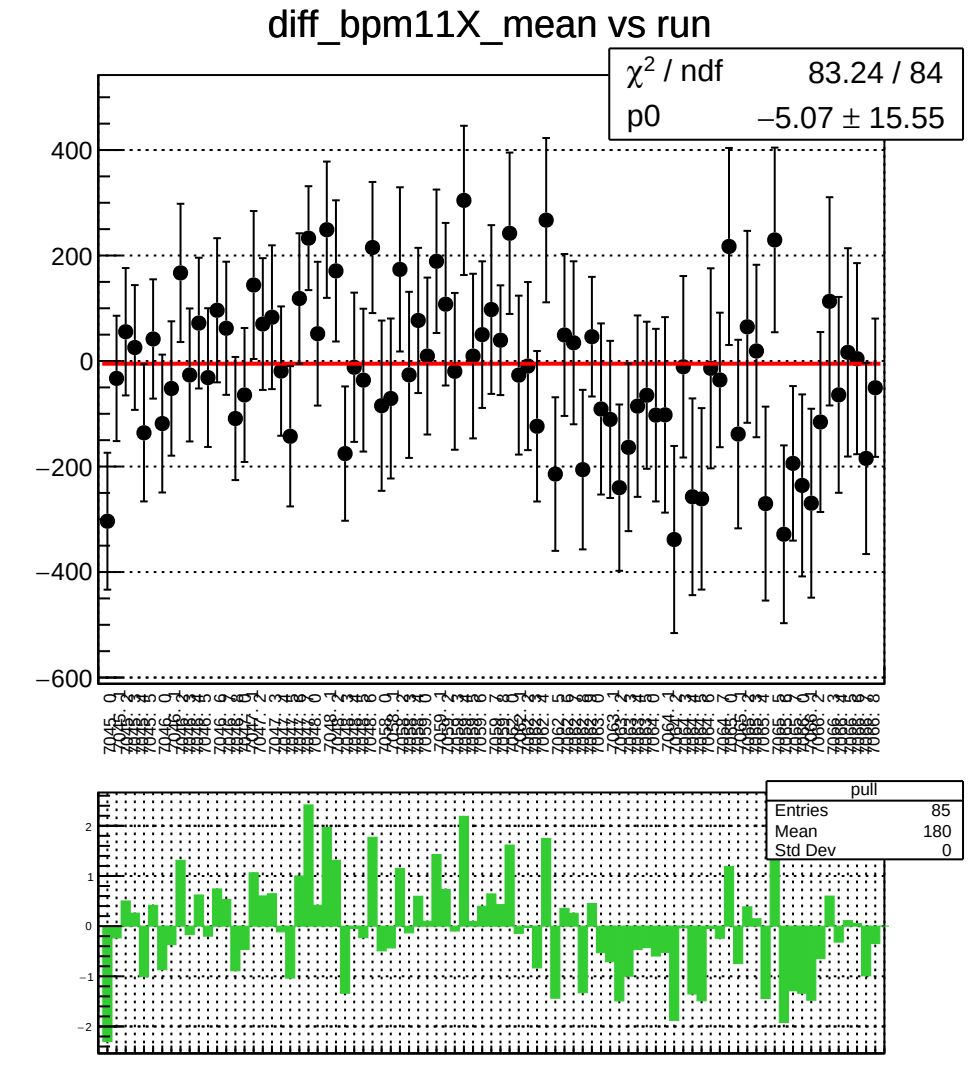

pull1D
Entries 85
Mean 0.01738
Std Dev 0.8427
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

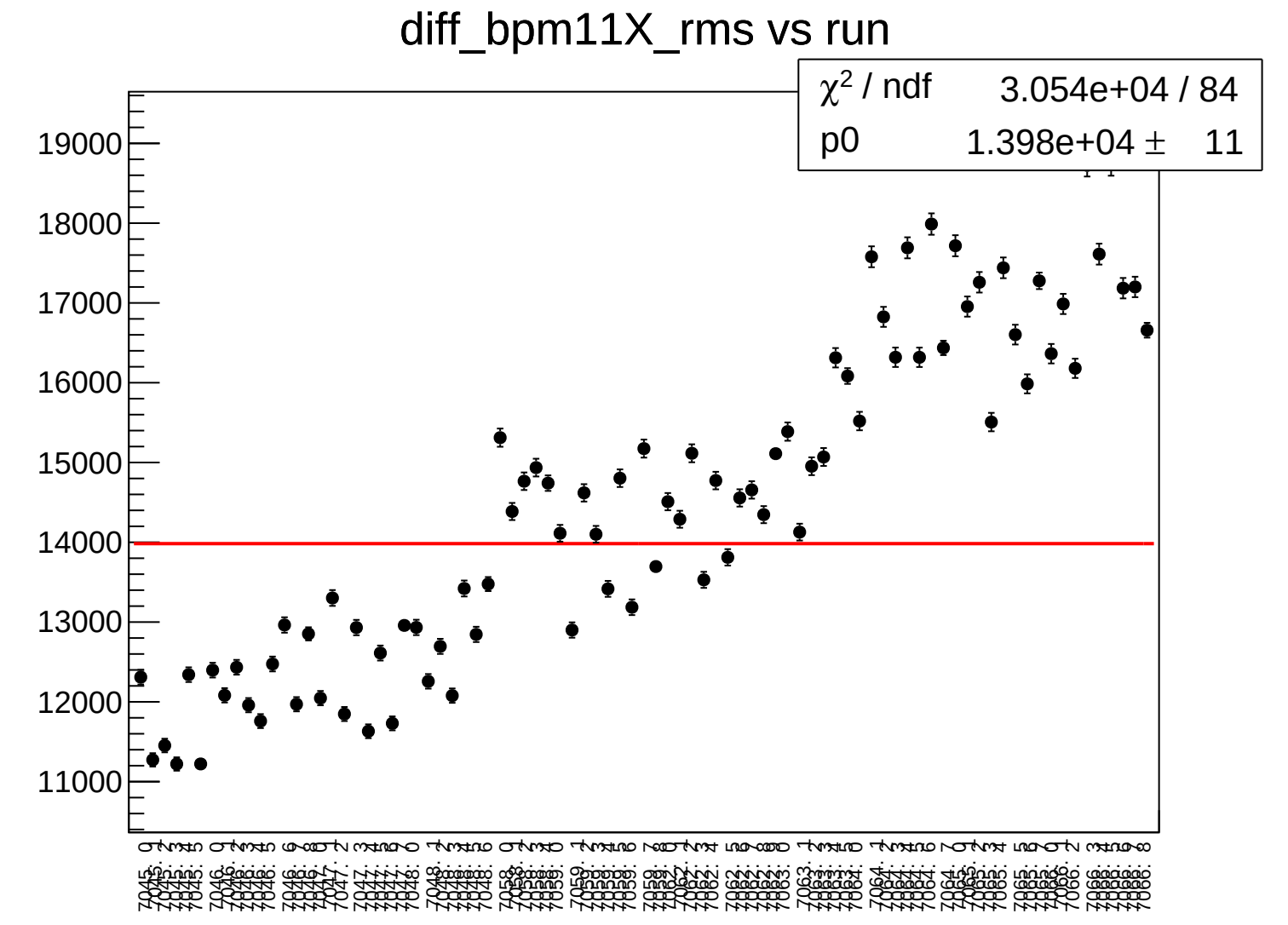

diff_bpm1X_rms vs run
χ² / ndf 2490 / 84
p0 7596 ± 5.923
8200
8000
7800
7600
7400
7200
7000

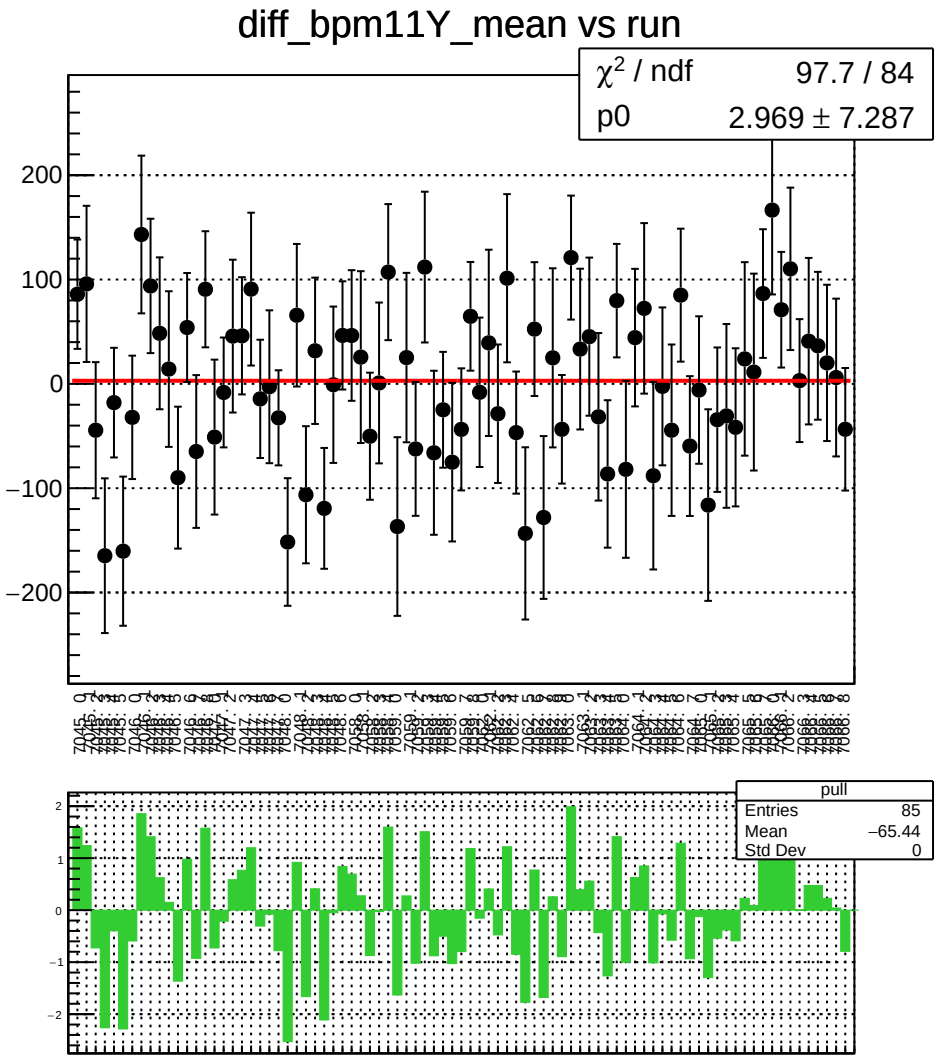

diff_bpm1Y_mean vs run
χ² / ndf 102.2 / 84
p0 −0.6377 ± 6.149
200
100
0
−100
−200
pull
Entries 85
Mean 14.24
Std Dev 0
2
1
0
−1
−2
−3

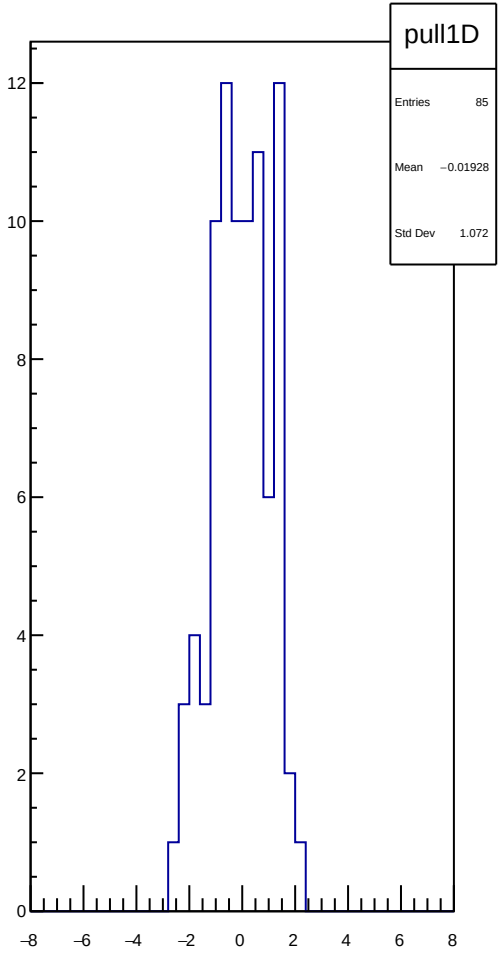

pull1D
Entries 85
Mean 0.01807
Std Dev 1.096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

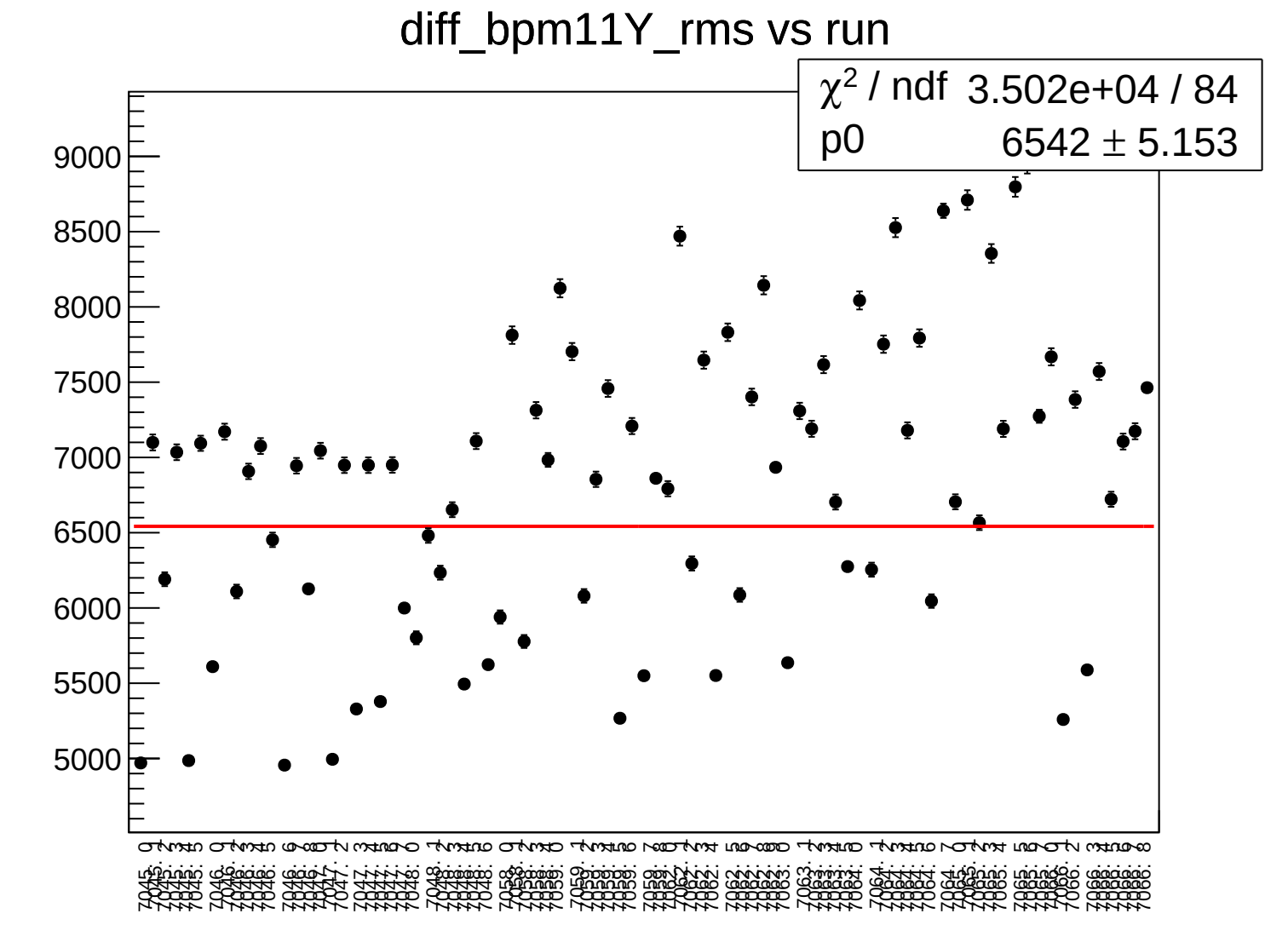

diff_bpm1Y_rms vs run
χ² / ndf 2.972e+04 / 84
p0 5529 ± 4.348
7500
7000
6500
6000
5500
5000
4500
4000

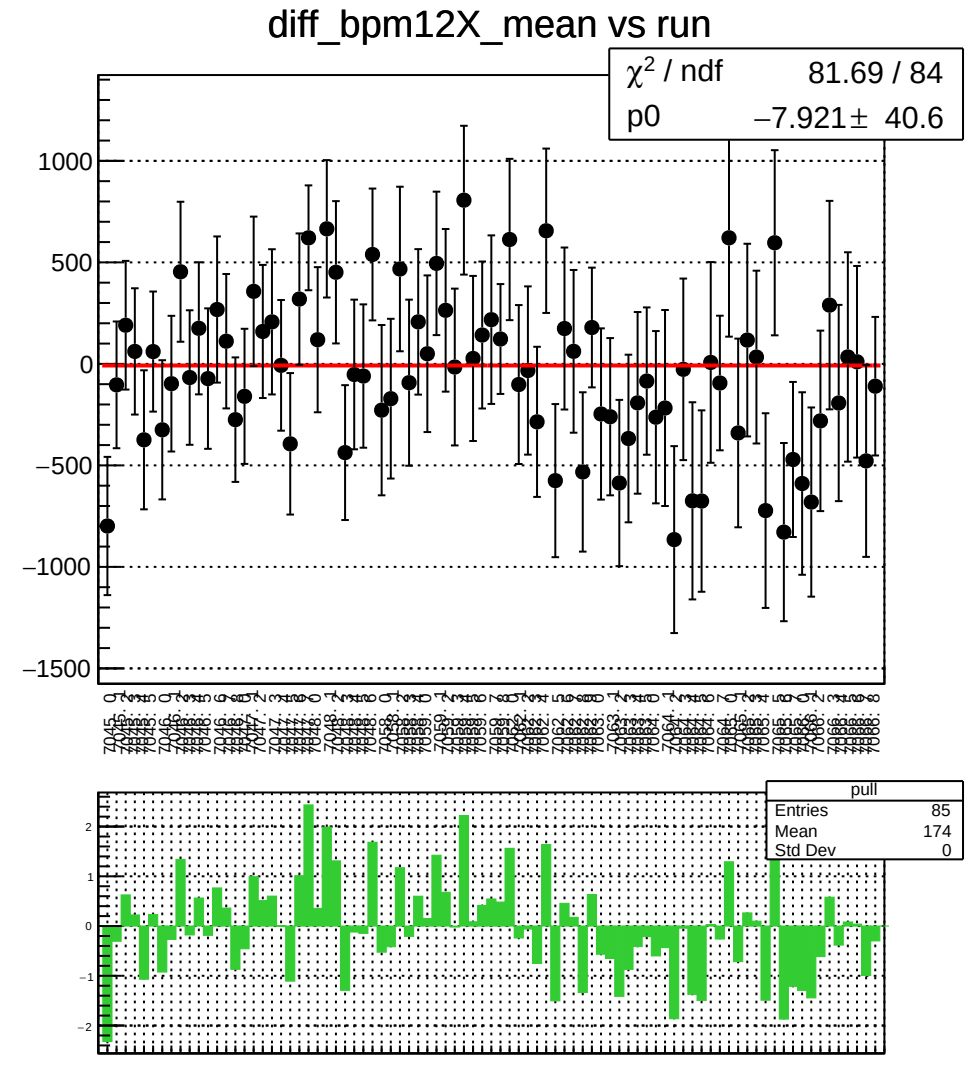

diff_bpm11X_mean vs run
χ² / ndf 83.24 / 84
p0 −5.07 ± 15.55
pull
Entries 85
Mean 180
Std Dev 0
pull1D
Entries 85
Mean −0.04607
Std Dev 0.9885

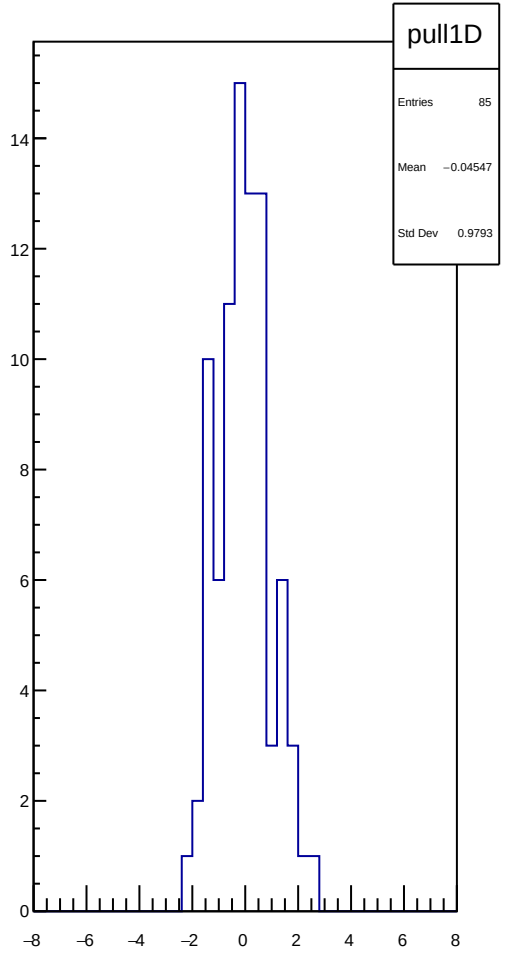

diff_bpm11X_rms vs run
χ^2 / ndf 3.054e+04 / 84
p0 1.398e+04 ± 11
19000
18000
17000
16000
15000
14000
13000
12000
11000

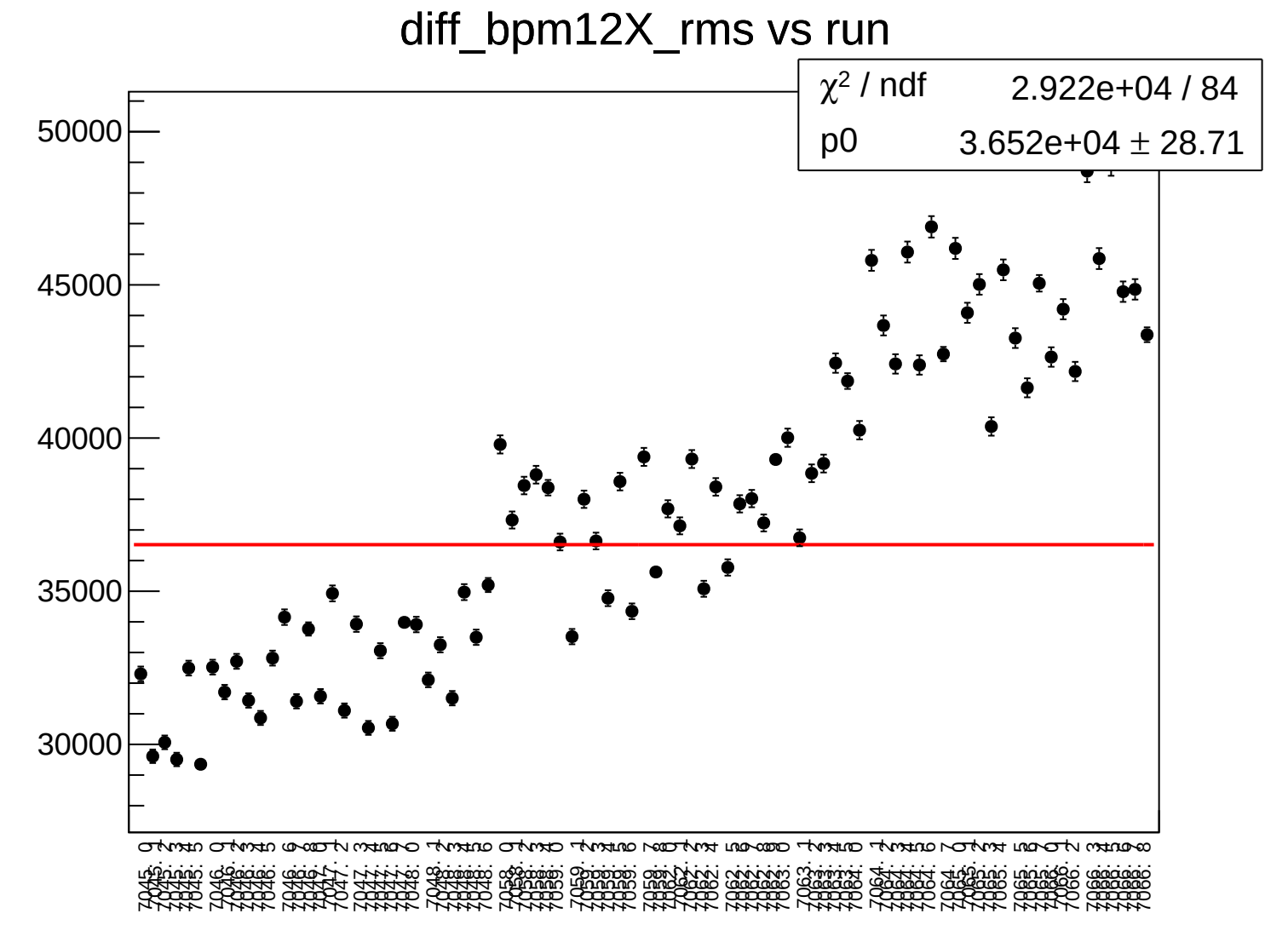

diff_bpm11Y_mean vs run
χ^2 / ndf 97.7 / 84
p0 2.969 ± 7.287
200
100
0
−100
−200
pull
Entries 85
Mean −65.44
Std Dev 0
2
1
0
−1
−2

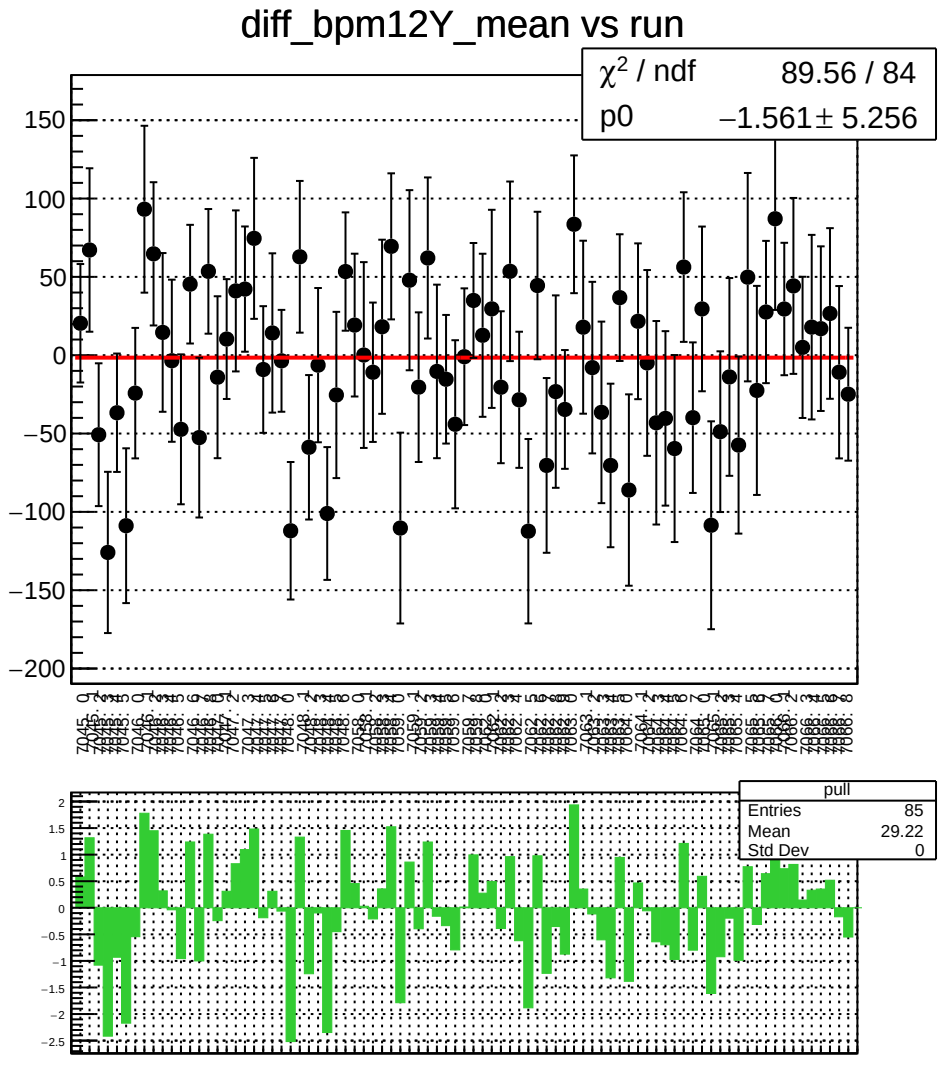

pull1D
Entries 85
Mean −0.01928
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

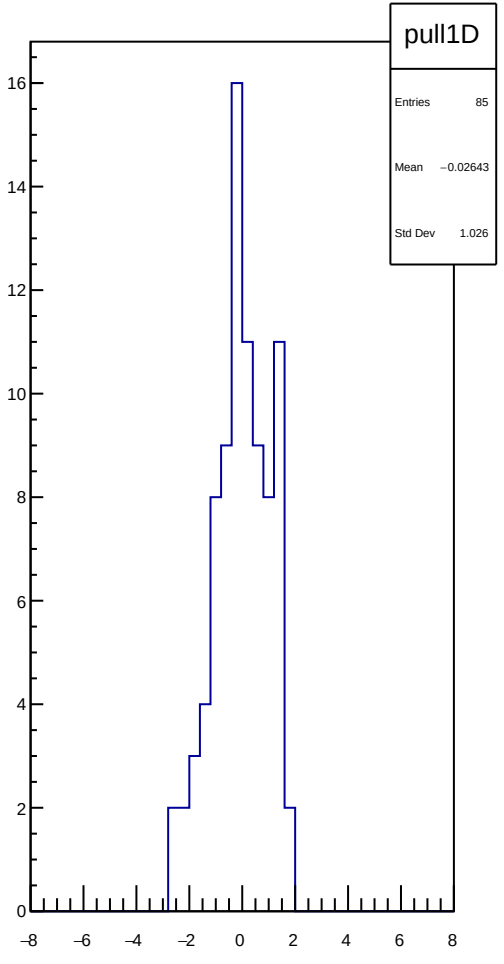

diff_bpm11Y_rms vs run
χ² / ndf 3.502e+04 / 84
p0 6542 ± 5.153
9000
8500
8000
7500
7000
6500
6000
5500
5000

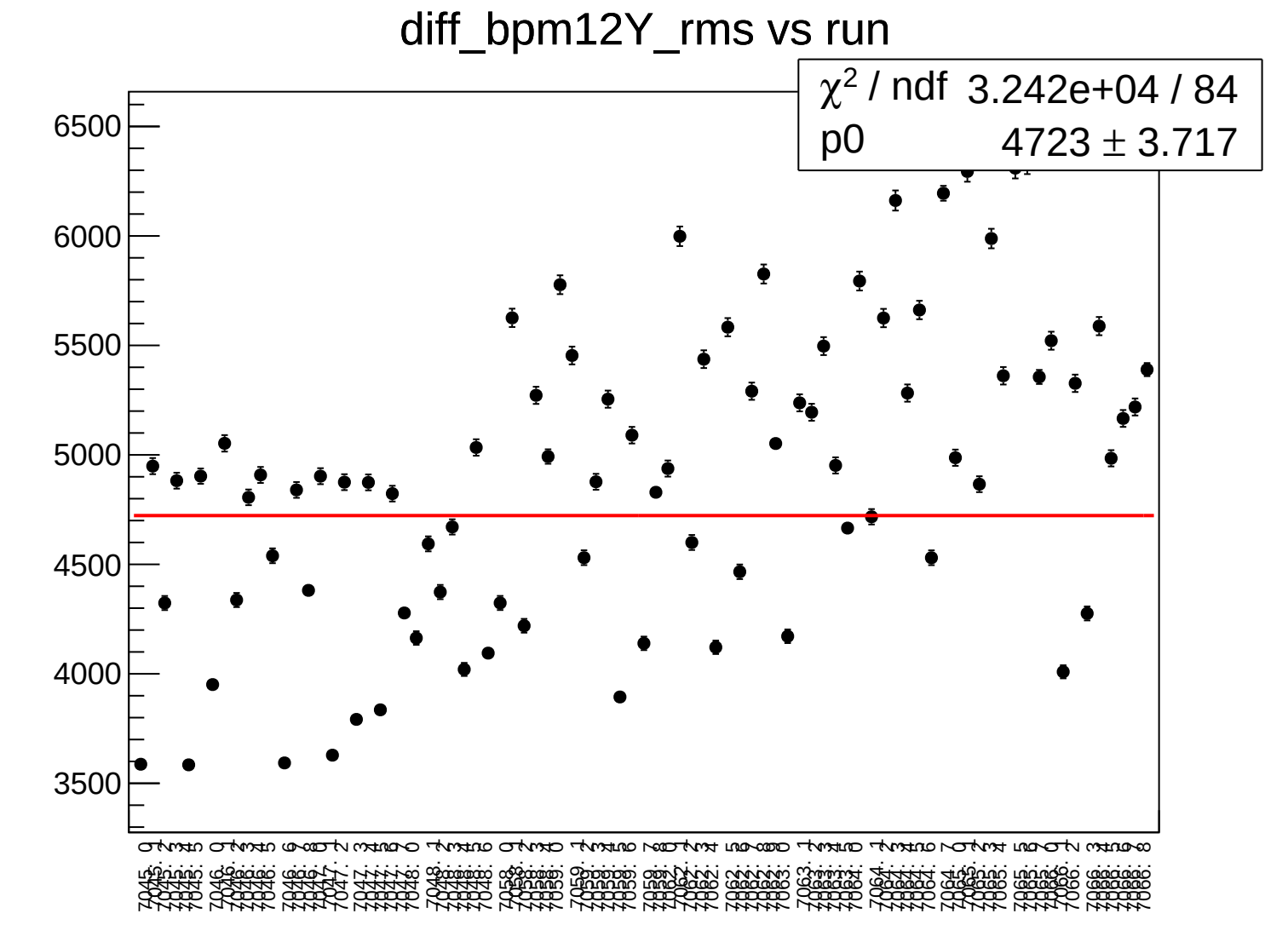

diff_bpm12X_mean vs run
χ² / ndf 81.69 / 84
p0 −7.921± 40.6
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 174
Std Dev 0
2
1
0
−1
−2

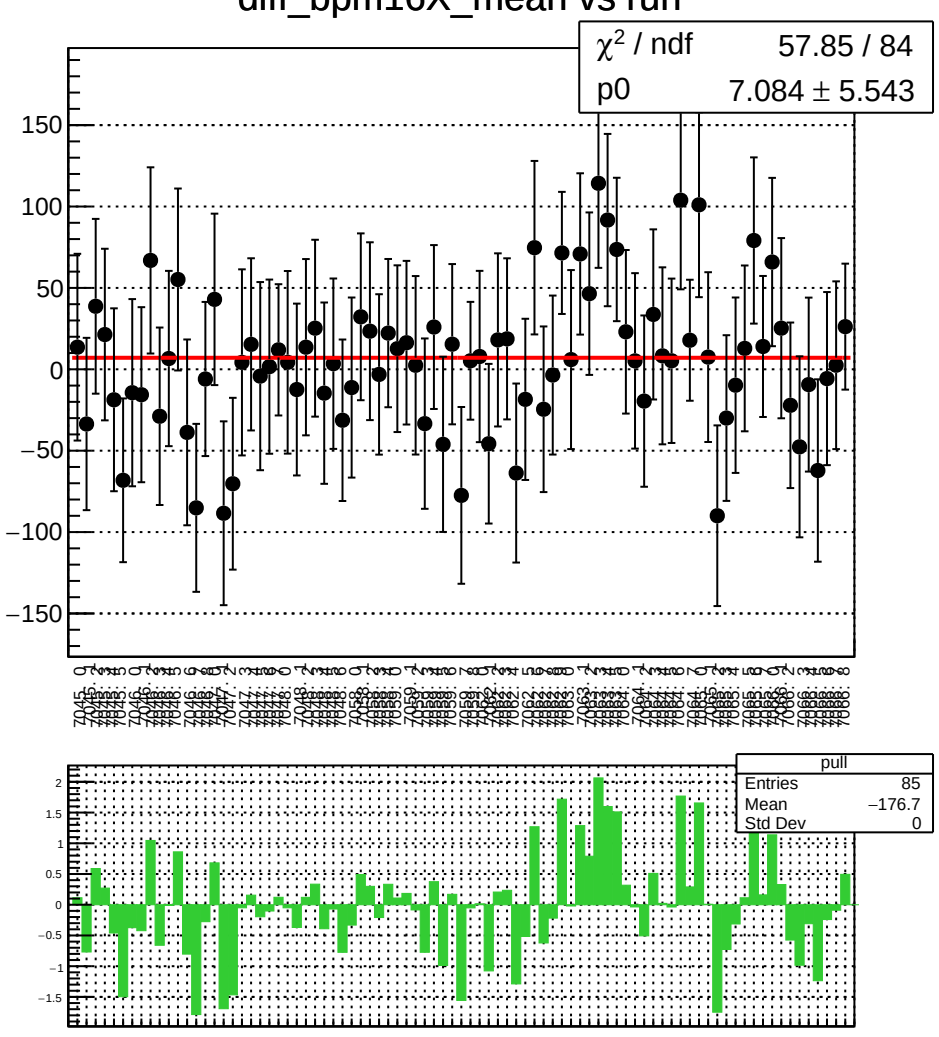

pull1D
Entries 85
Mean −0.04547
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

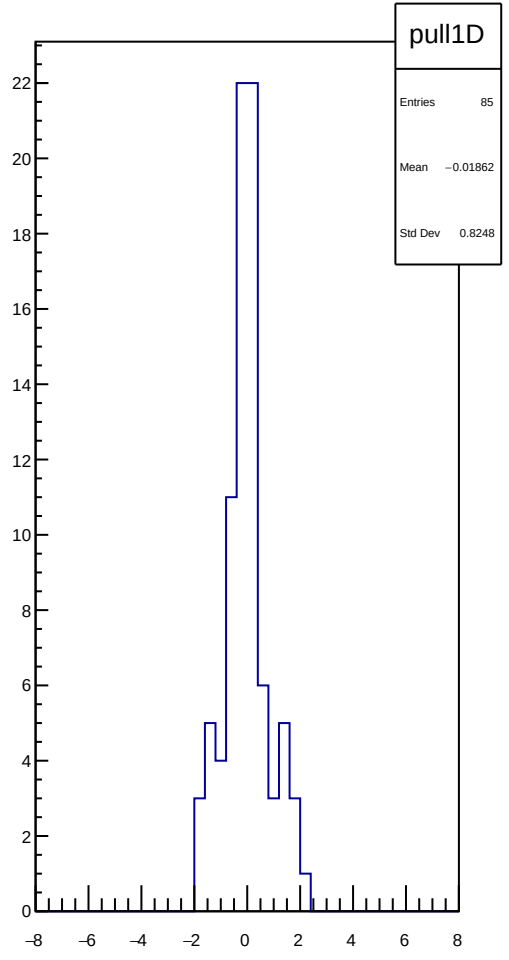

diff_bpm12X_rms vs run
χ² / ndf 2.922e+04 / 84
p0 3.652e+04 ± 28.71
50000
45000
40000
35000
30000

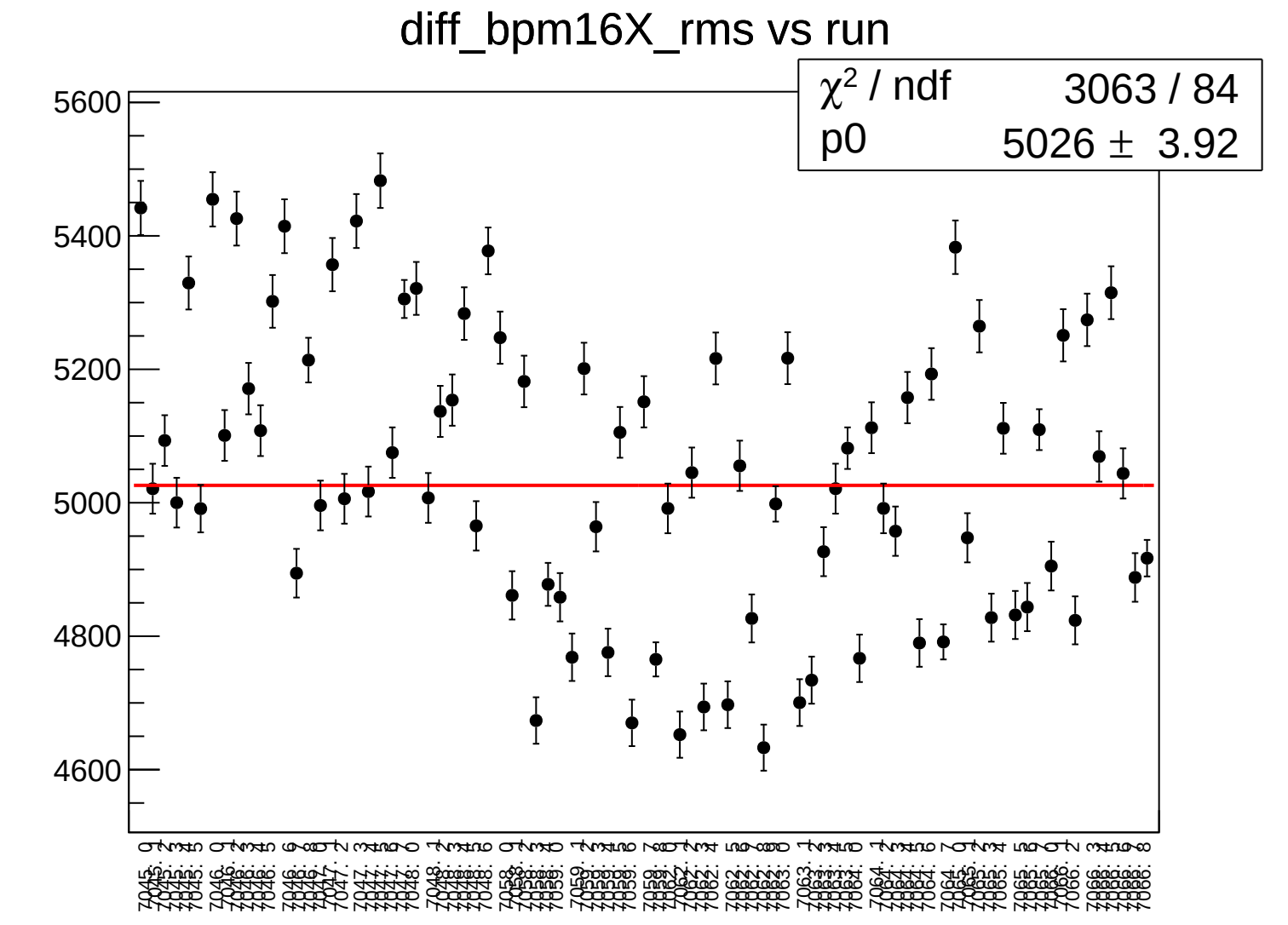

diff_bpm12Y_mean vs run
χ^2 / ndf 89.56 / 84
p0 −1.561 ± 5.256
pull
Entries 85
Mean 29.22
Std Dev 0

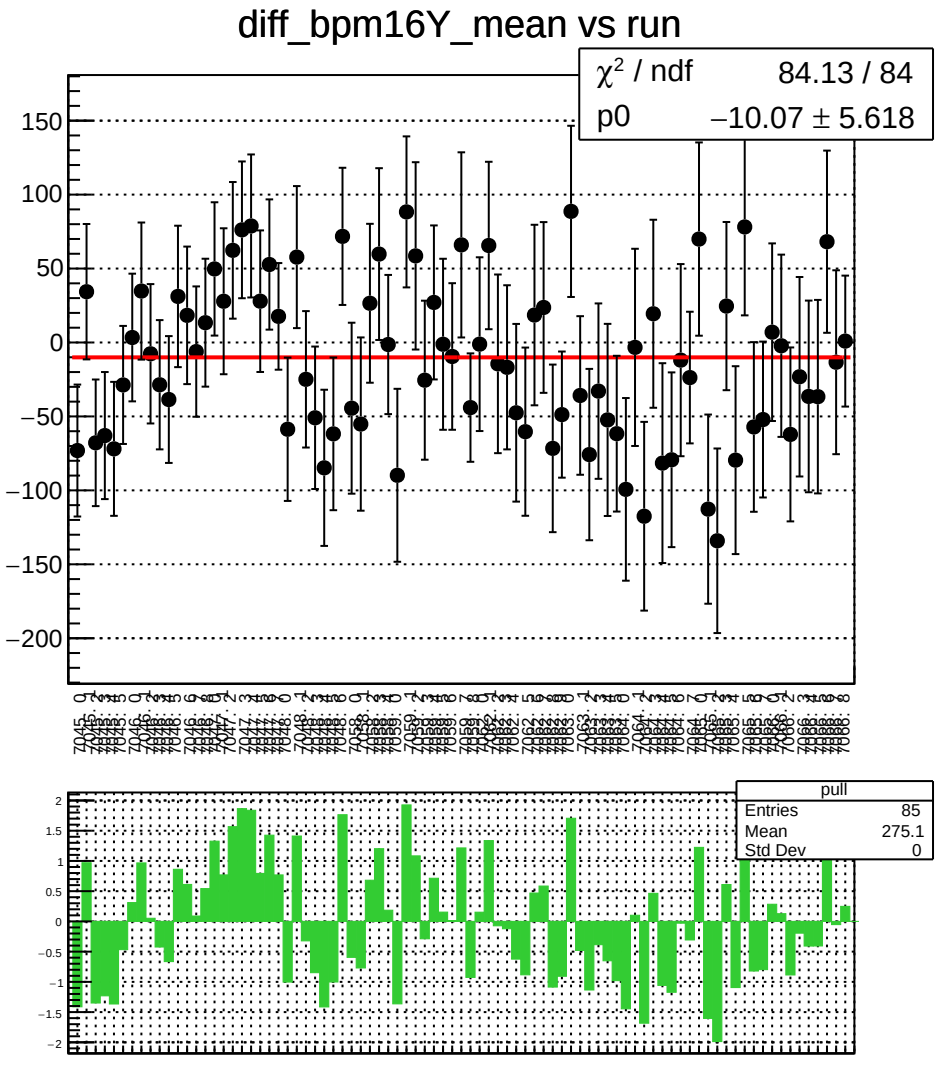

pull1D
Entries 85
Mean −0.02643
Std Dev 1.026

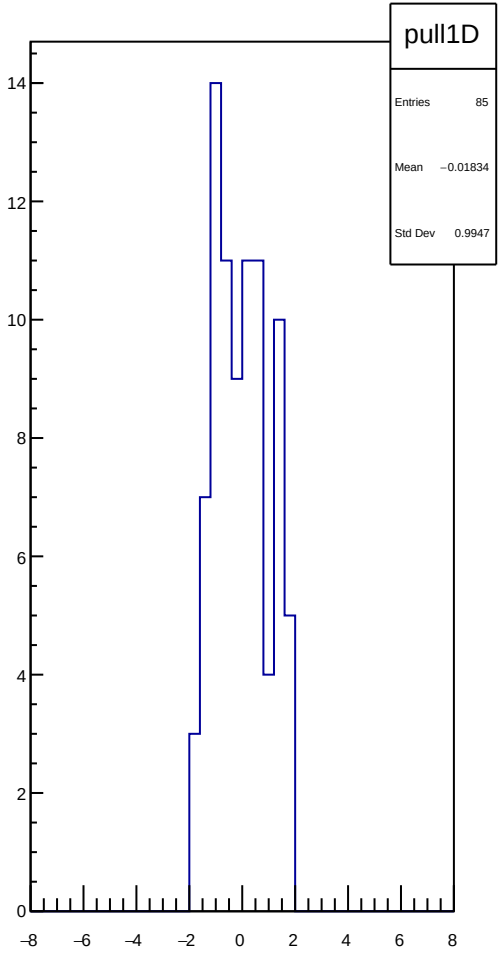

diff_bpm12Y_rms vs run
χ² / ndf 3.242e+04 / 84
p0 4723 ± 3.717
6500
6000
5500
5000
4500
4000
3500

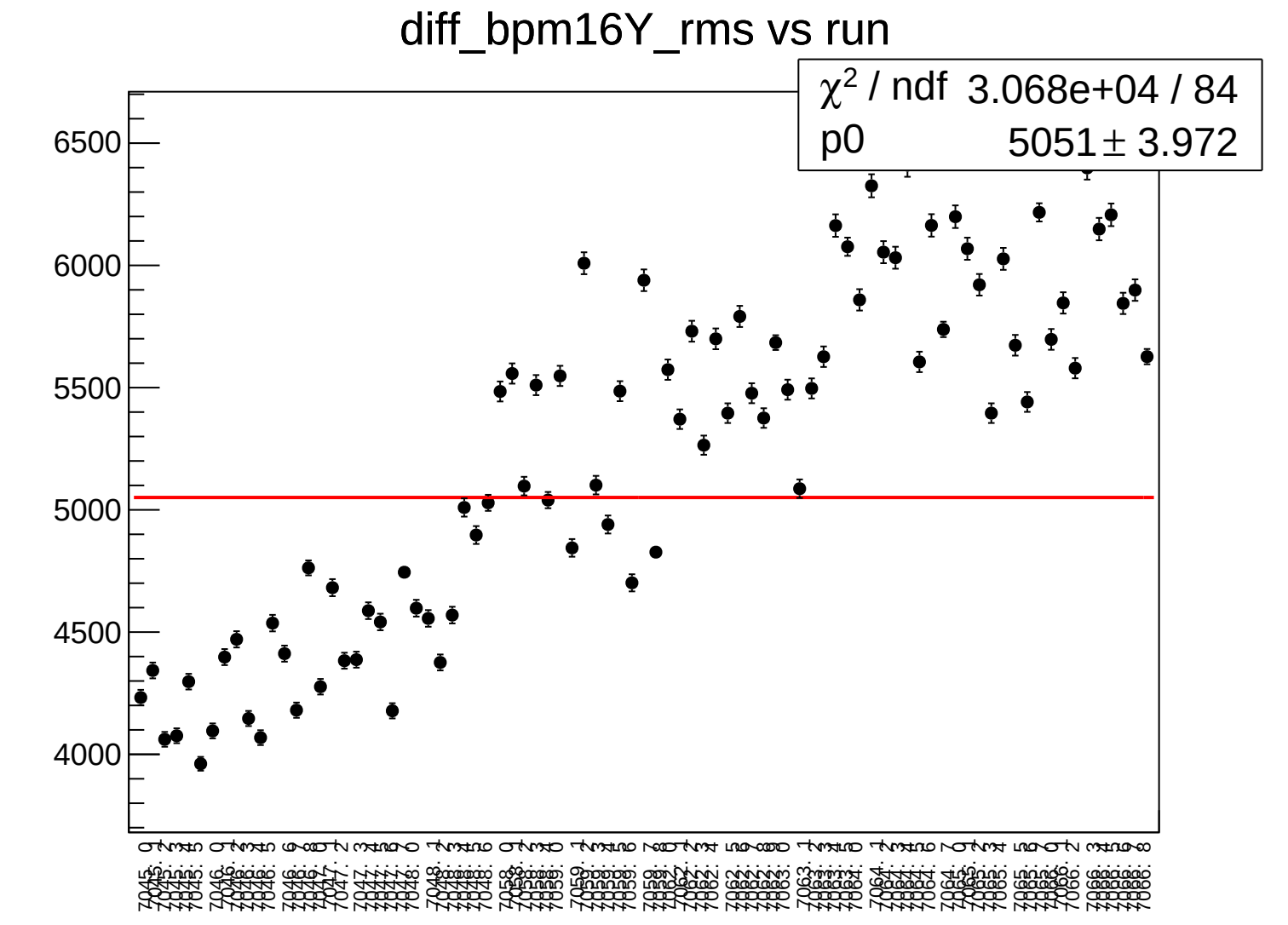

diff_bpm16X_mean vs run
χ^2 / ndf 57.85 / 84
p0 7.084 ± 5.543
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −176.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

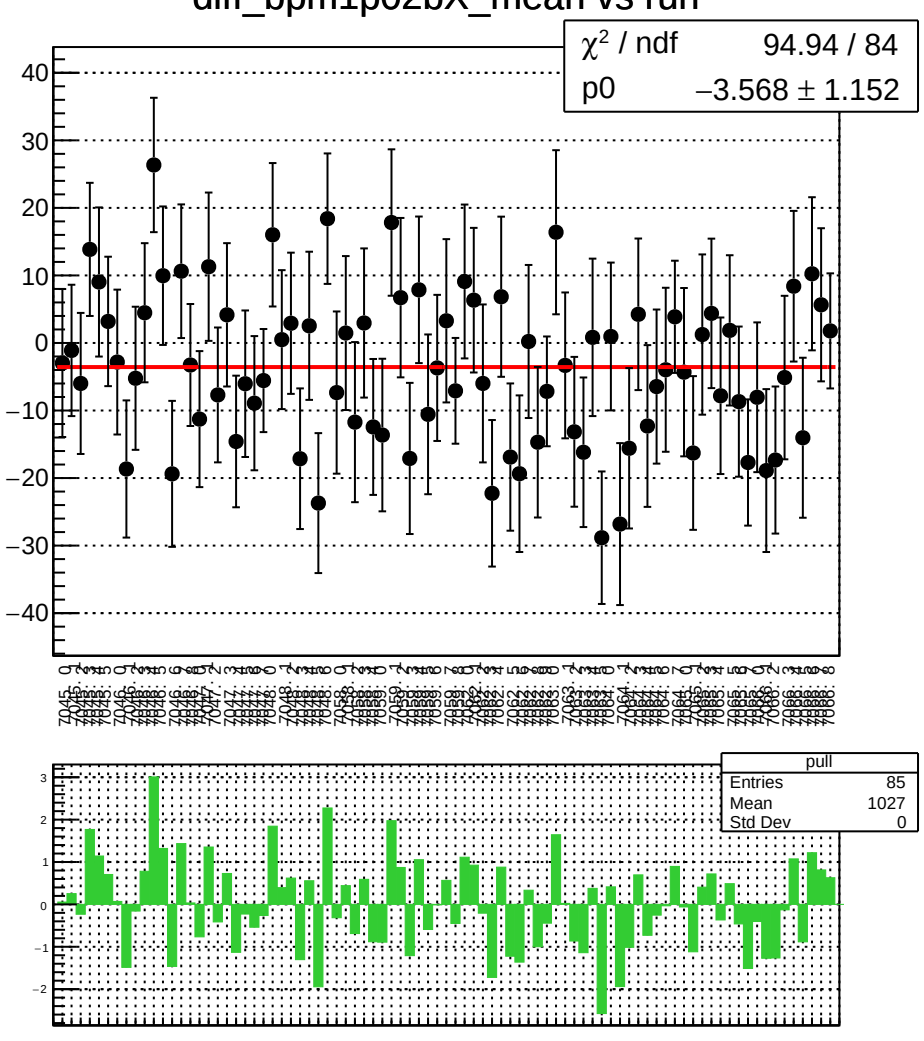

pull1D
Entries 85
Mean −0.01862
Std Dev 0.8248
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

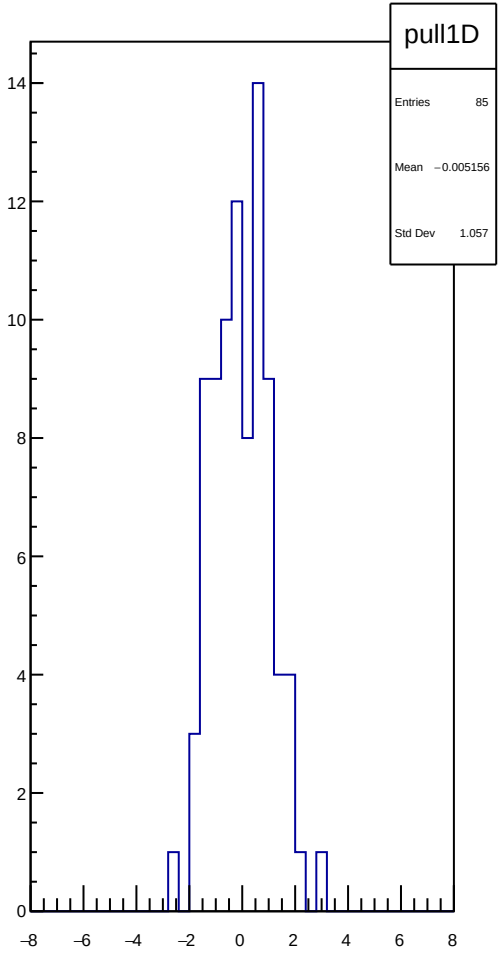

diff_bpm16X_rms vs run
χ² / ndf 3063 / 84
p0 5026 ± 3.92
5600
5400
5200
5000
4800
4600

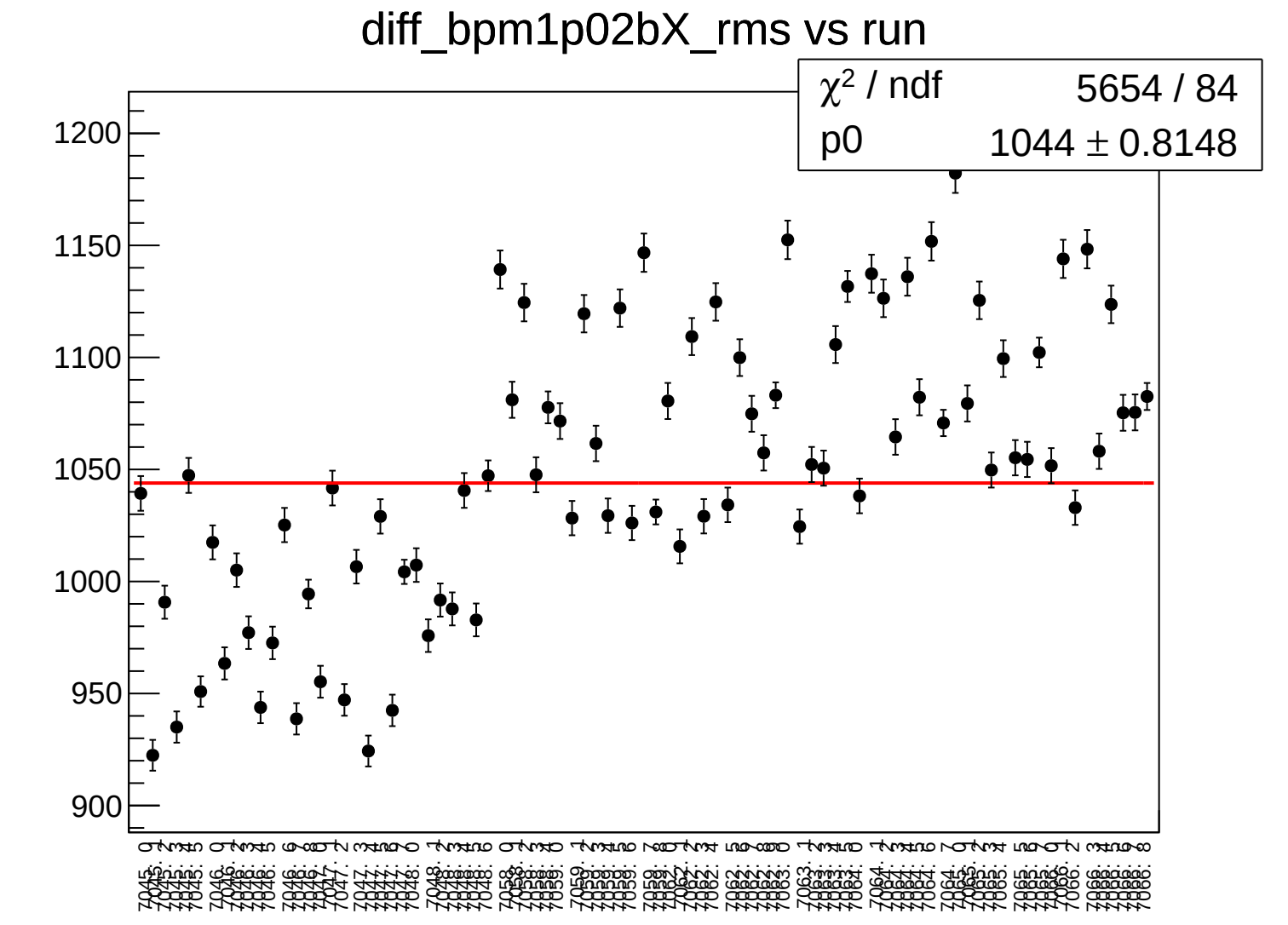

diff_bpm16Y_mean vs run
χ^2 / ndf 84.13 / 84
p0 −10.07 ± 5.618
pull
Entries 85
Mean 275.1
Std Dev 0

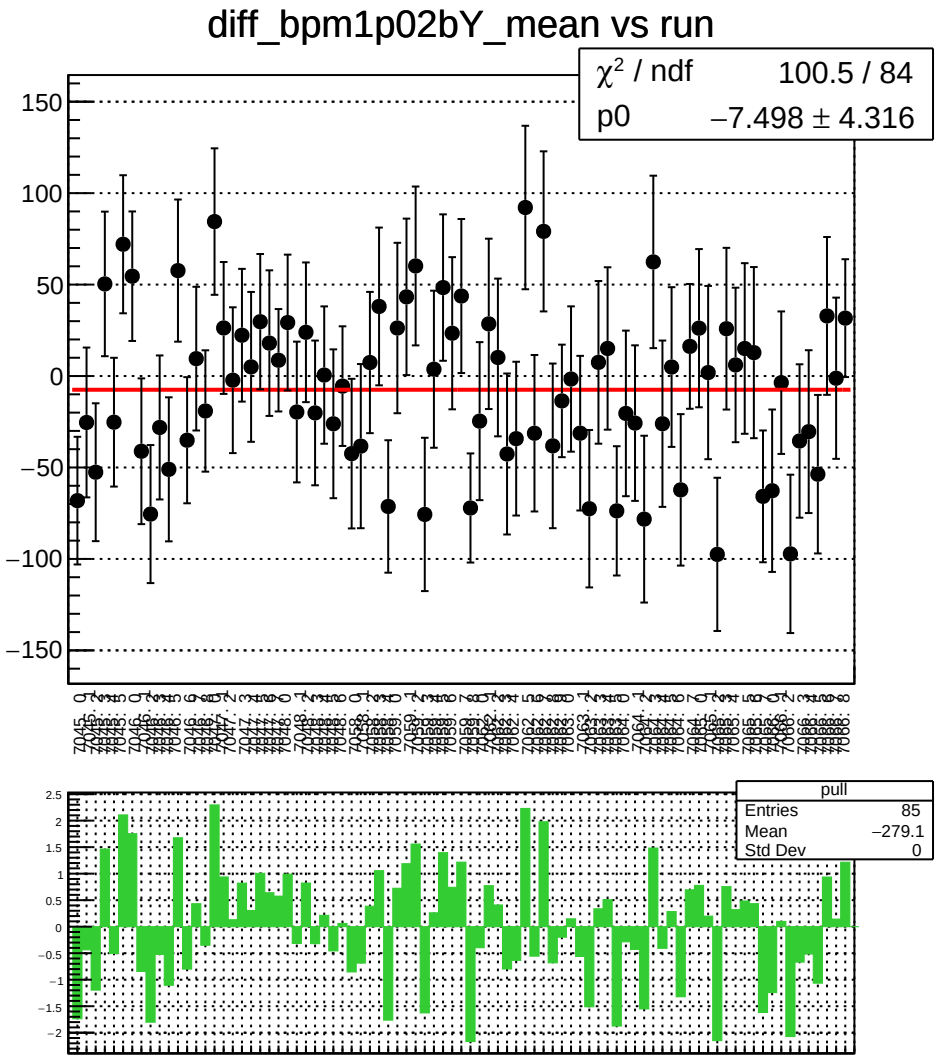

pull1D
Entries 85
Mean −0.01834
Std Dev 0.9947

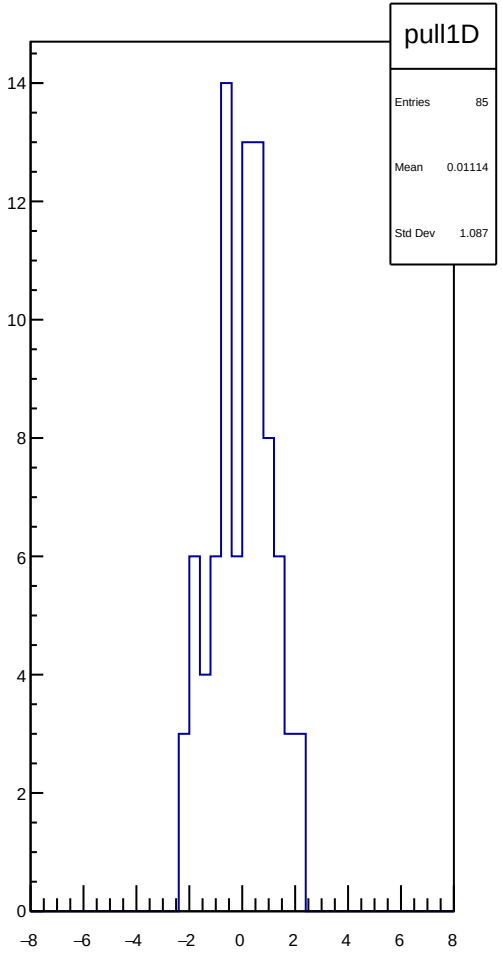

diff_bpm16Y_rms vs run
χ² / ndf 3.068e+04 / 84
p0 5051 ± 3.972
6500
6000
5500
5000
4500
4000

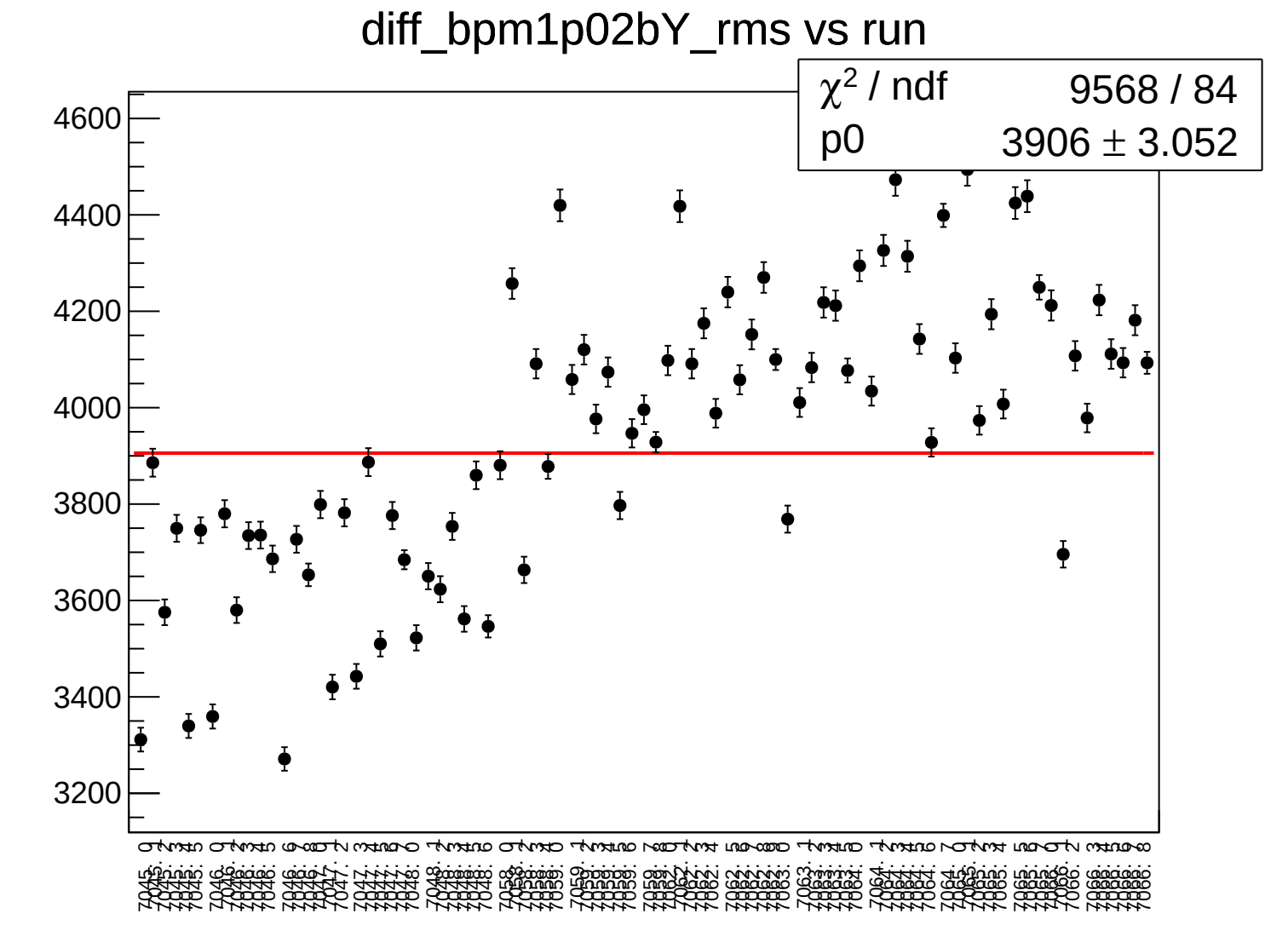

diff_bpm1p02bX_mean vs run
χ² / ndf 94.94 / 84
p0 −3.568 ± 1.152
pull
Entries 85
Mean 1027
Std Dev 0

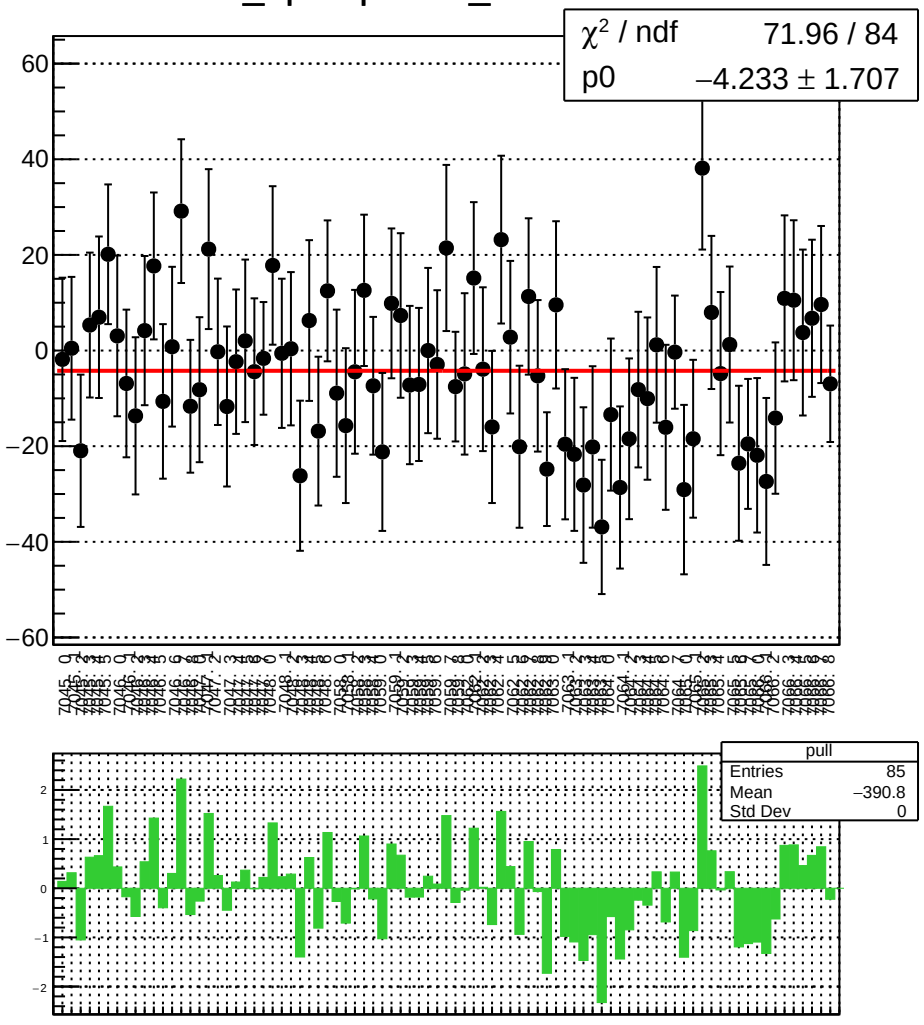

pull1D
Entries 85
Mean −0.005156
Std Dev 1.057

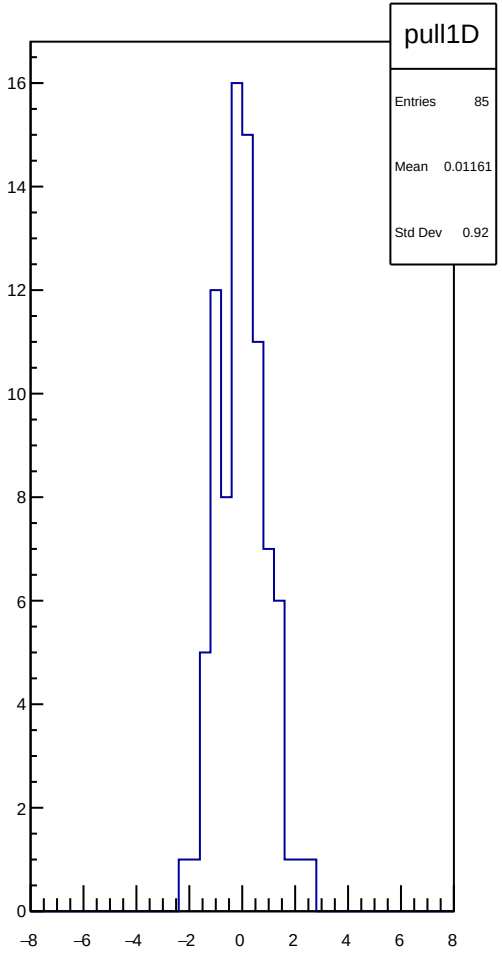

diff_bpm1p02bX_rms vs run
χ² / ndf 5654 / 84
p0 1044 ± 0.8148
1200
1150
1100
1050
1000
950
900

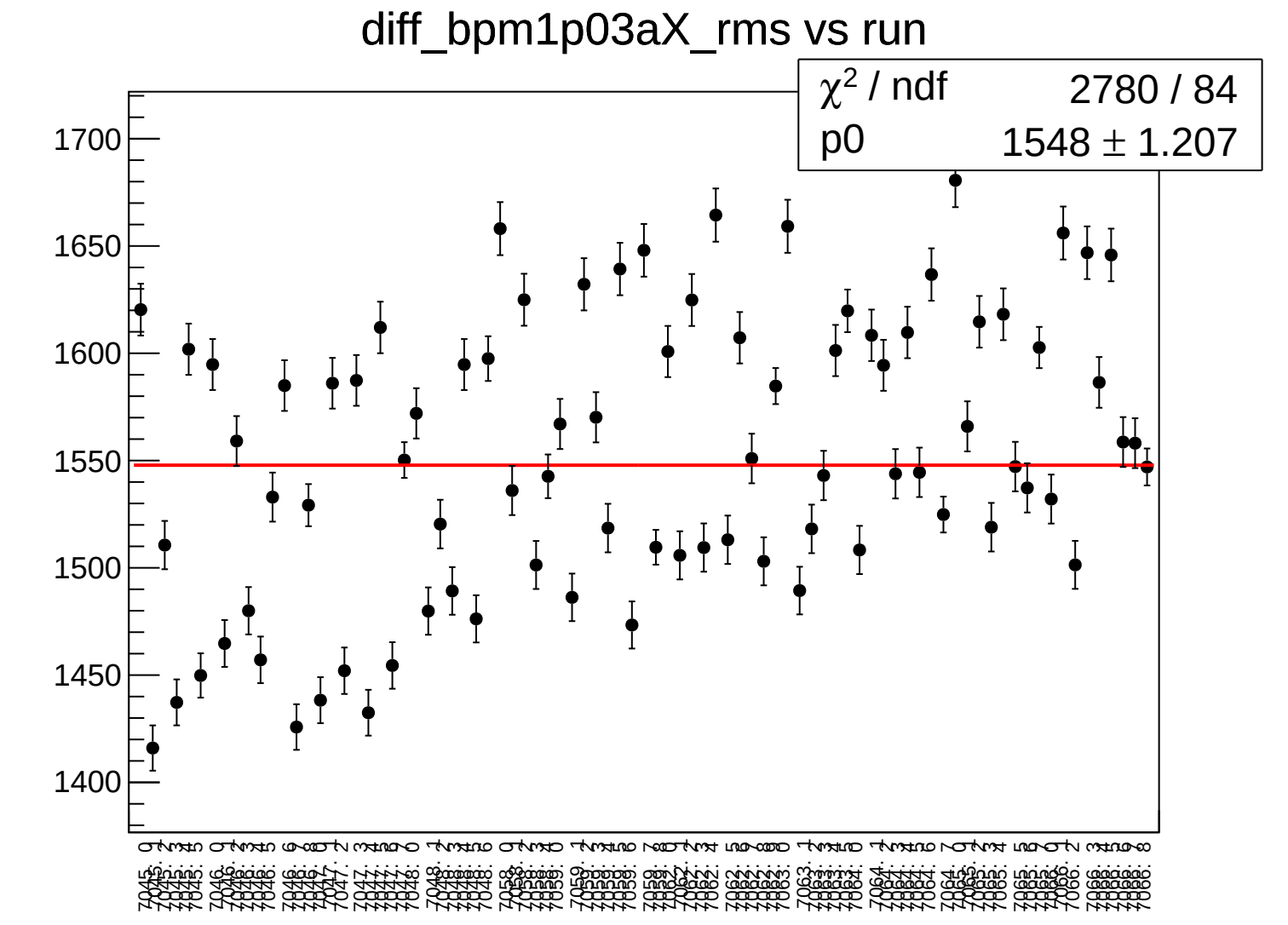

diff_bpm1p02bY_mean vs run
χ² / ndf 100.5 / 84
p0 −7.498 ± 4.316
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −279.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

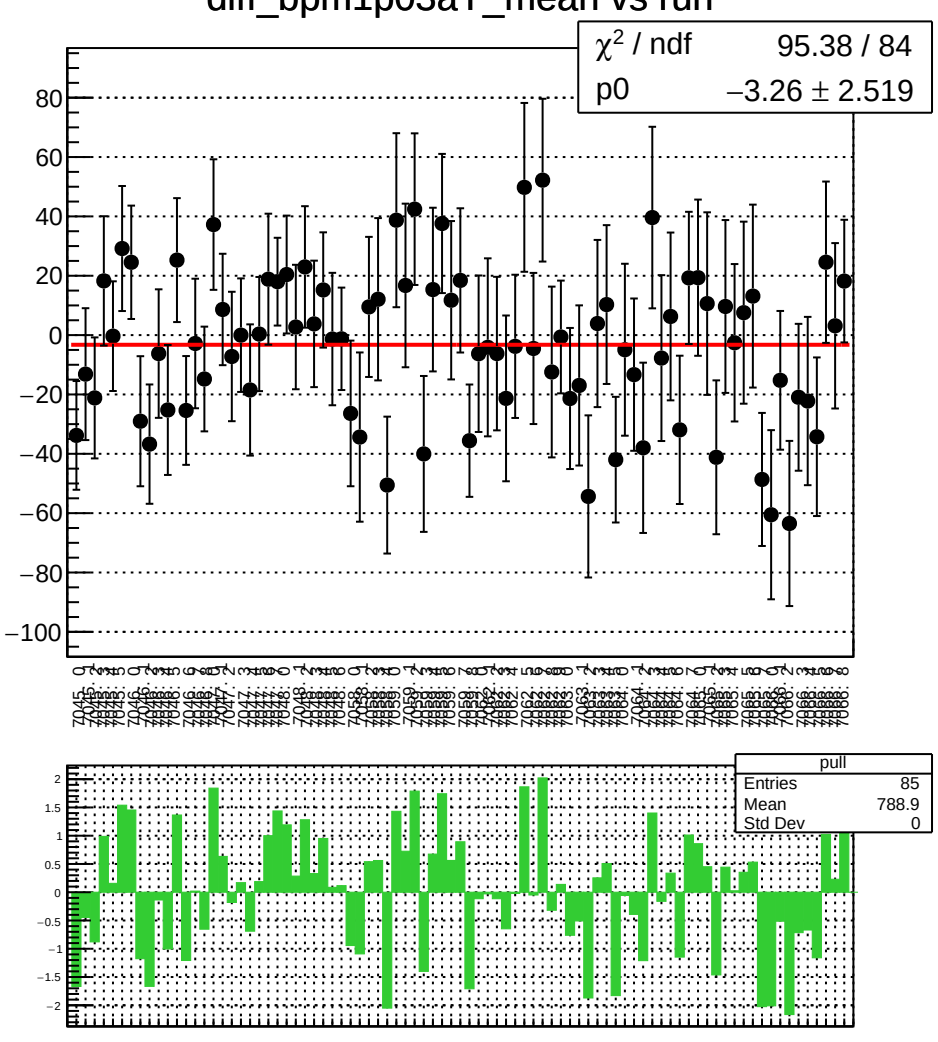

pull1D
Entries 85
Mean 0.01114
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

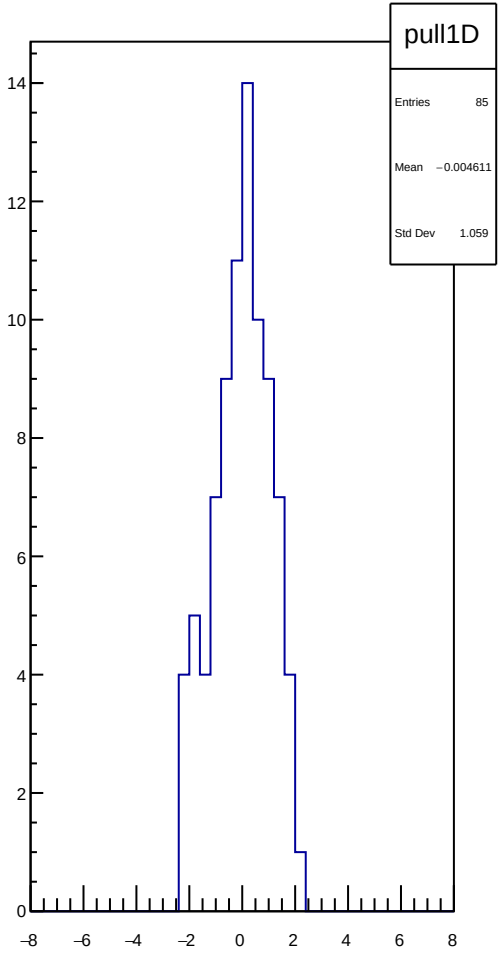

diff_bpm1p02bY_rms vs run
χ² / ndf 9568 / 84
p0 3906 ± 3.052
4600
4400
4200
4000
3800
3600
3400
3200

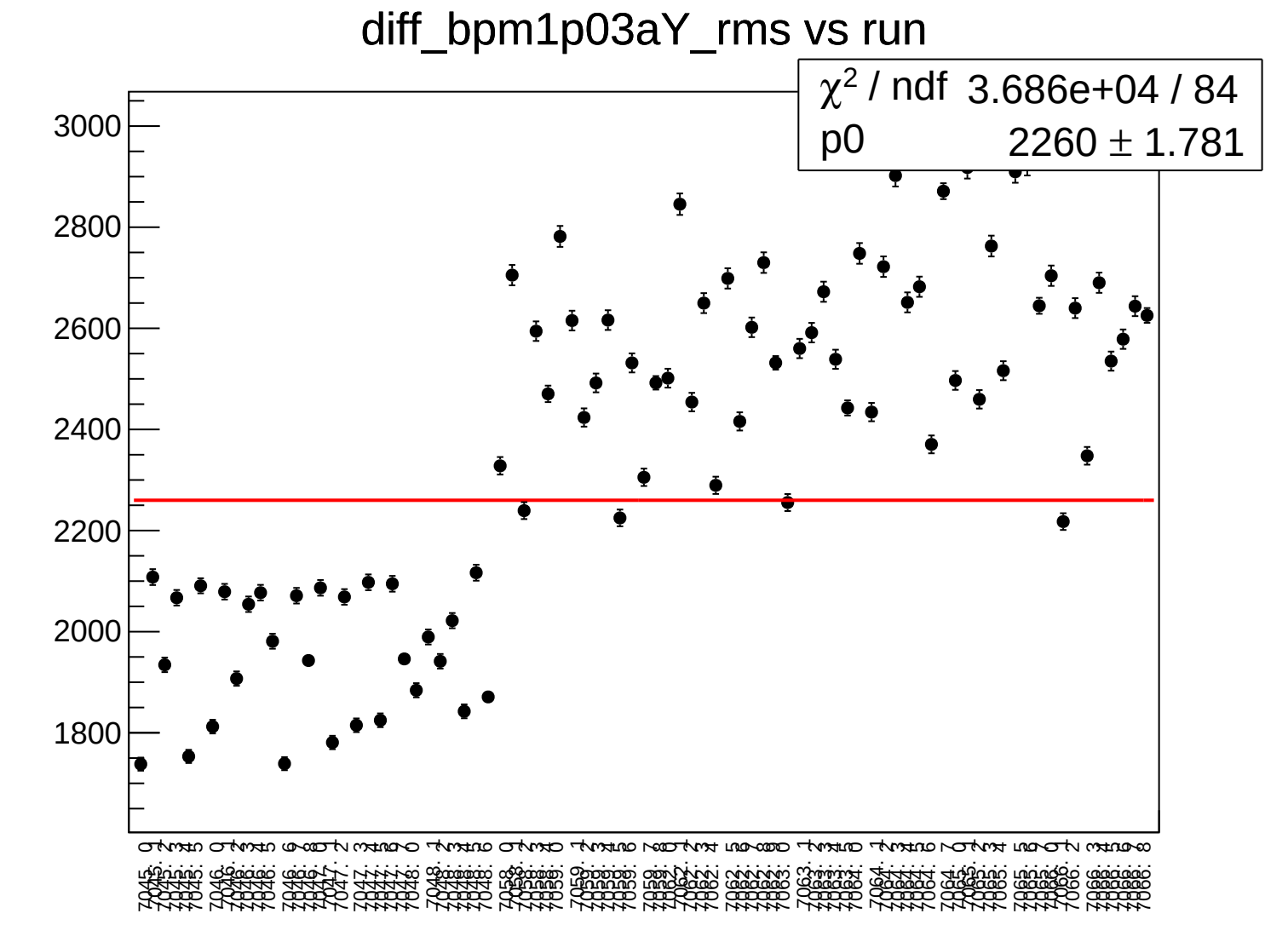

diff_bpm1p03aX_mean vs run
χ² / ndf 71.96 / 84
p0 −4.233 ± 1.707
pull
Entries 85
Mean −390.8
Std Dev 0

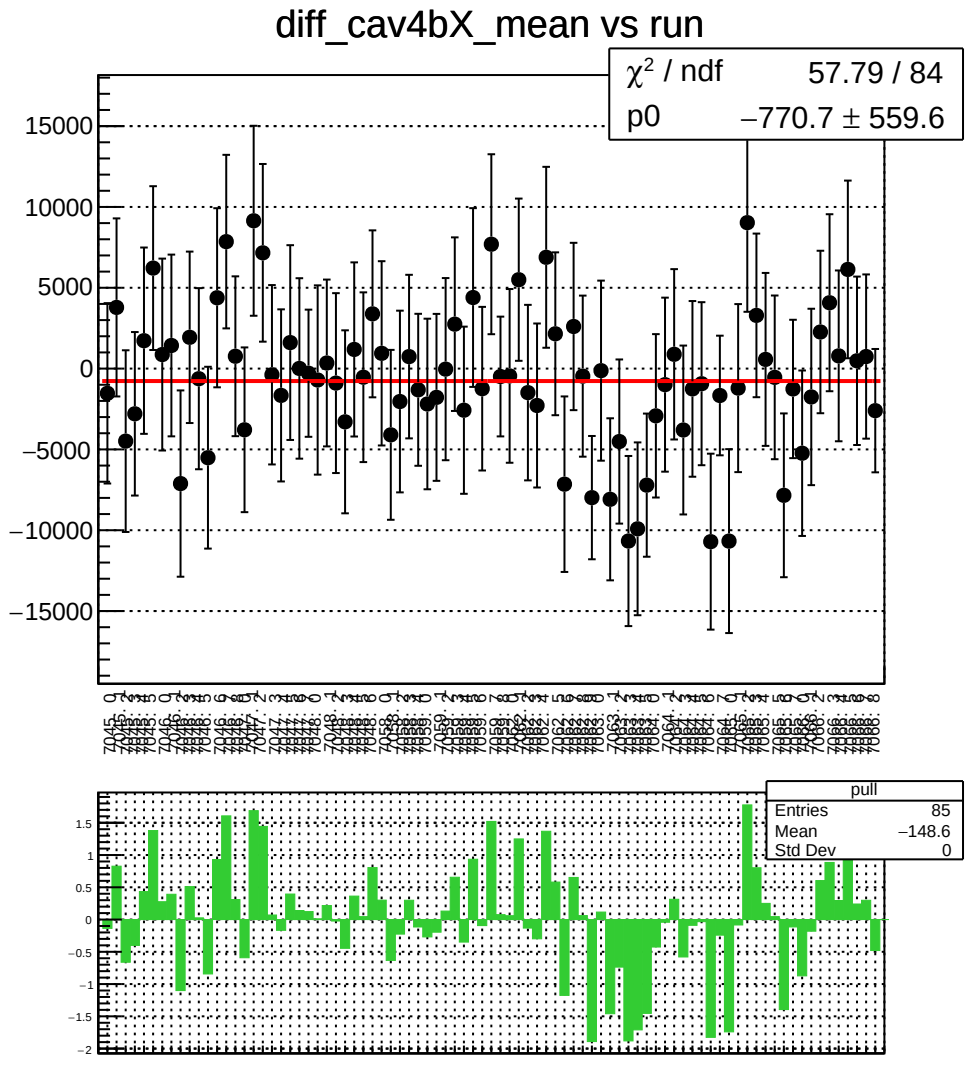

pull1D
Entries 85
Mean 0.01161
Std Dev 0.92

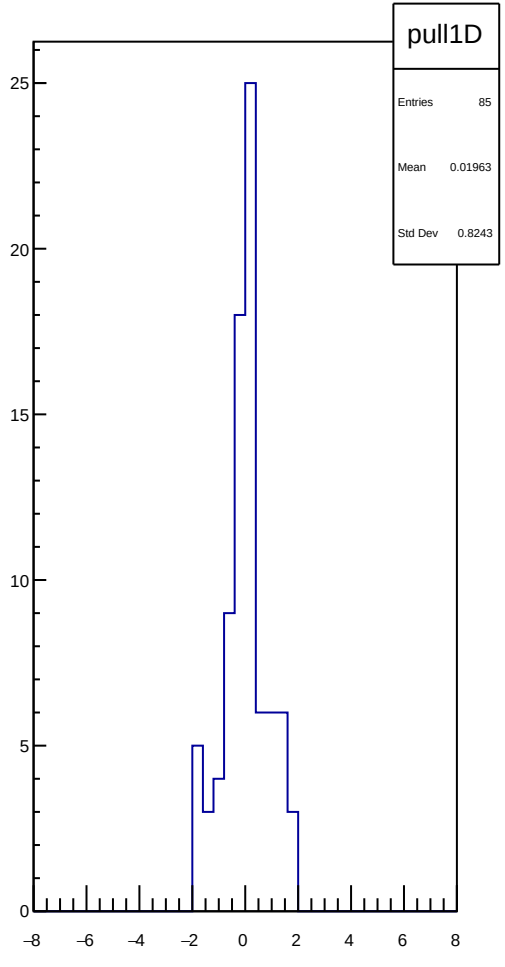

diff_bpm1p03aX_rms vs run
χ² / ndf 2780 / 84
p0 1548 ± 1.207
1700
1650
1600
1550
1500
1450
1400

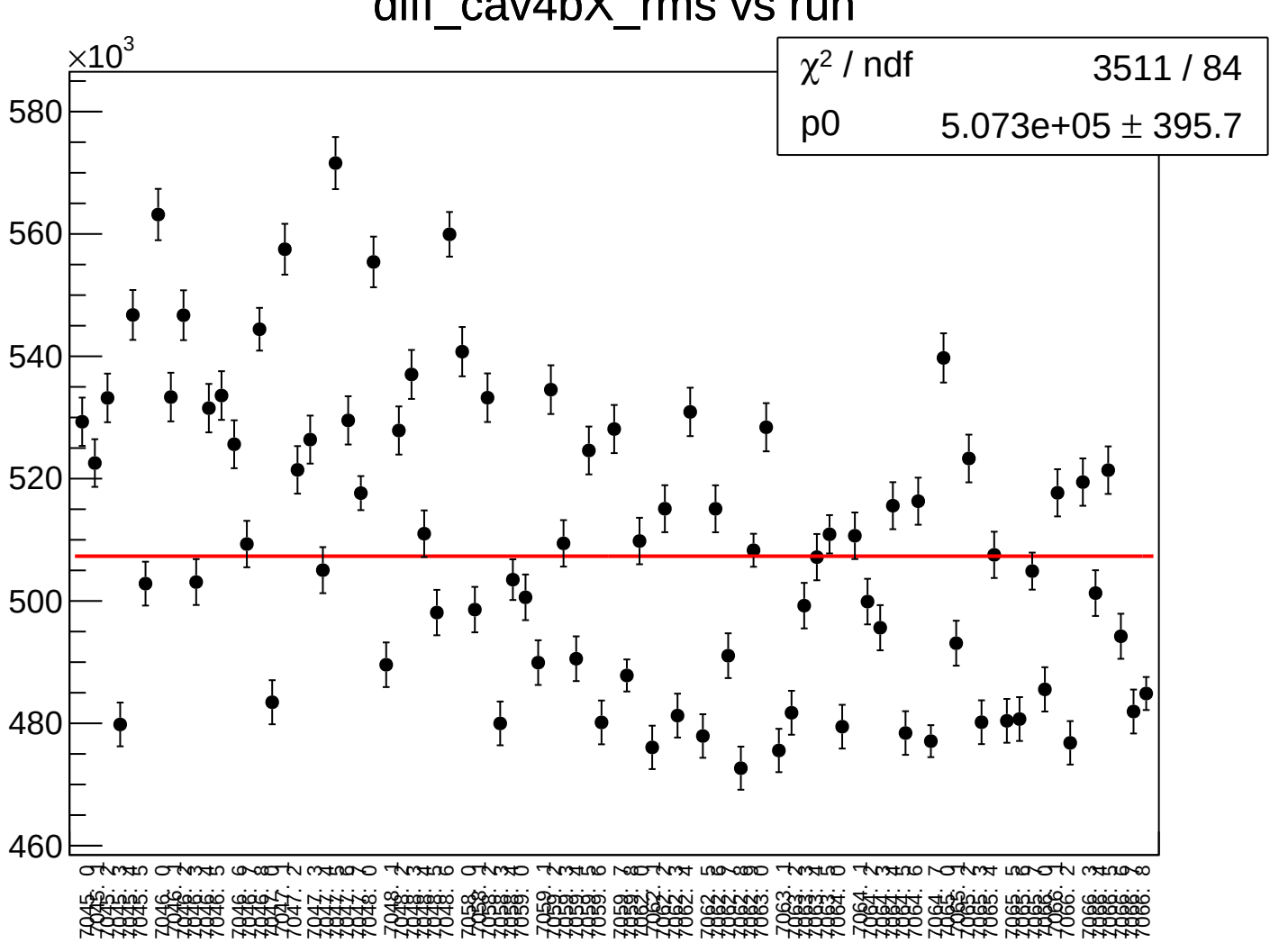

diff_bpm1p03aY_mean vs run
χ^2 / ndf 95.38 / 84
p0 −3.26 ± 2.519
pull
Entries 85
Mean 788.9
Std Dev 0

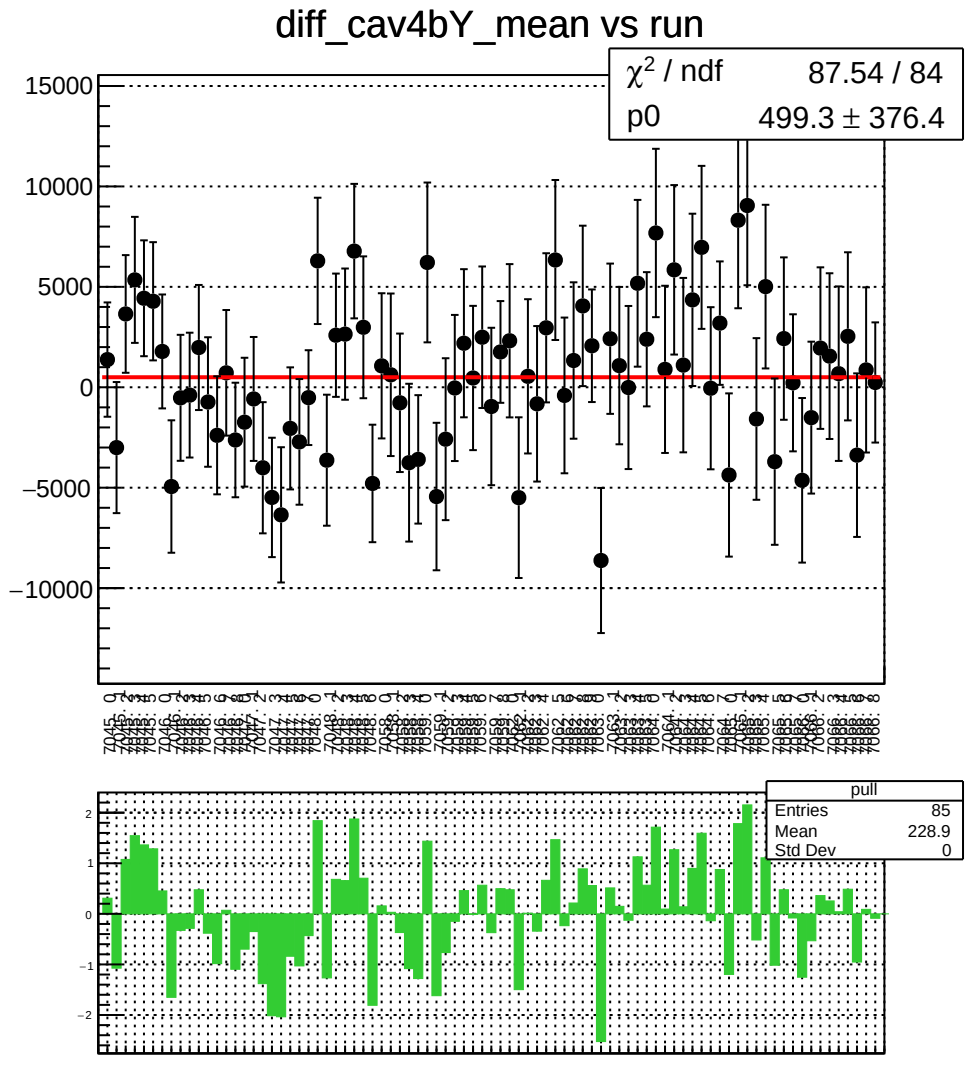

pull1D
Entries 85
Mean −0.004611
Std Dev 1.059

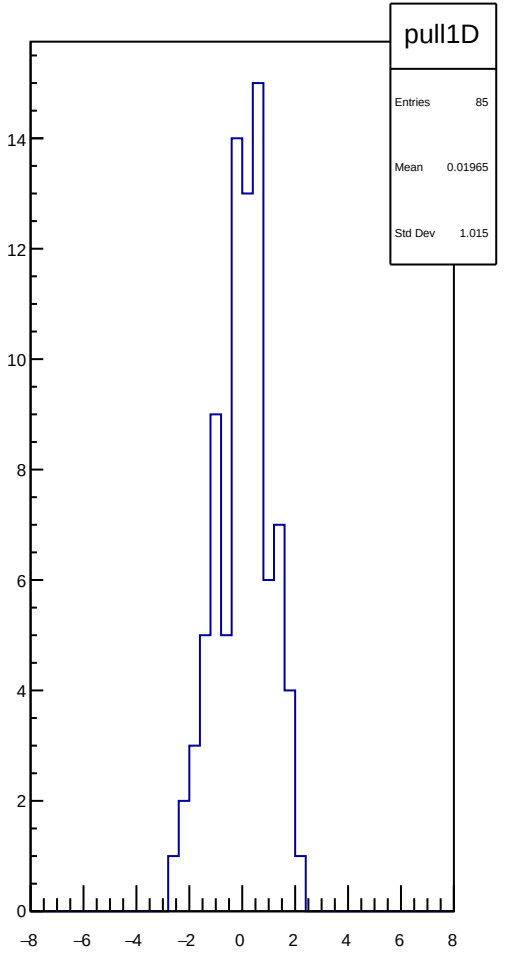

diff_bpm1p03aY_rms vs run
χ² / ndf 3.686e+04 / 84
p0 2260 ± 1.781
3000
2800
2600
2400
2200
2000
1800

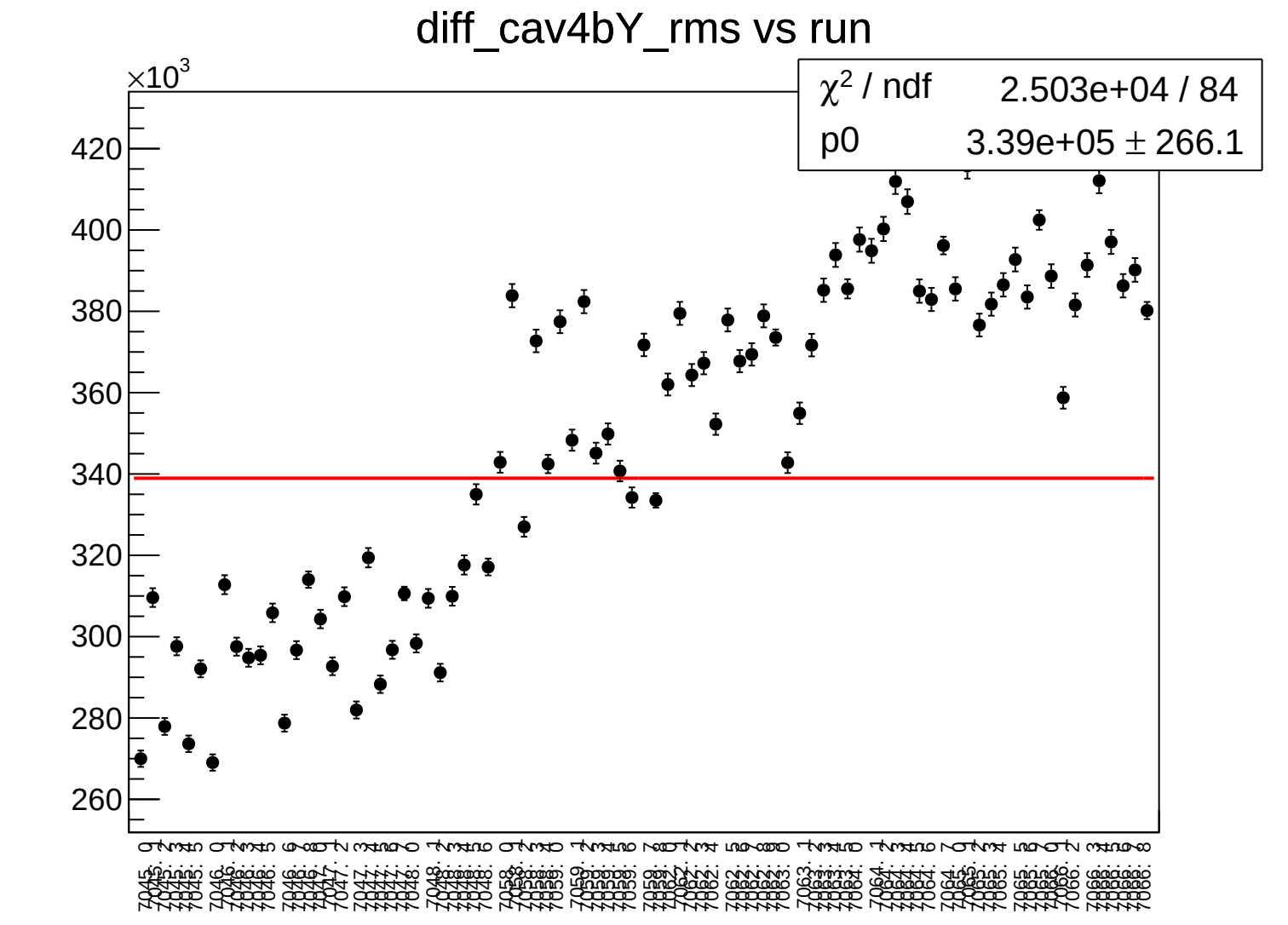

diff_cav4bX_mean vs run
χ² / ndf 57.79 / 84
p0 −770.7 ± 559.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −148.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

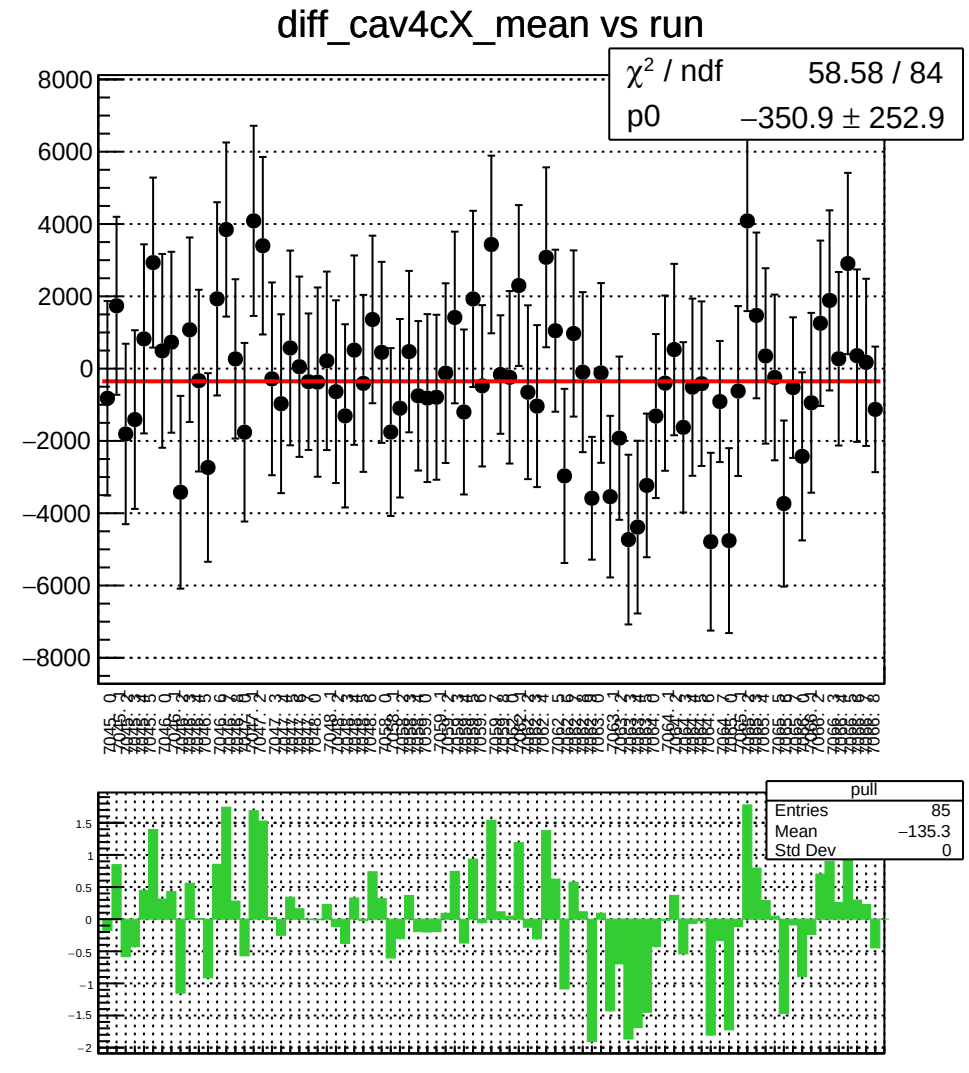

pull1D
Entries 85
Mean 0.01963
Std Dev 0.8243
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

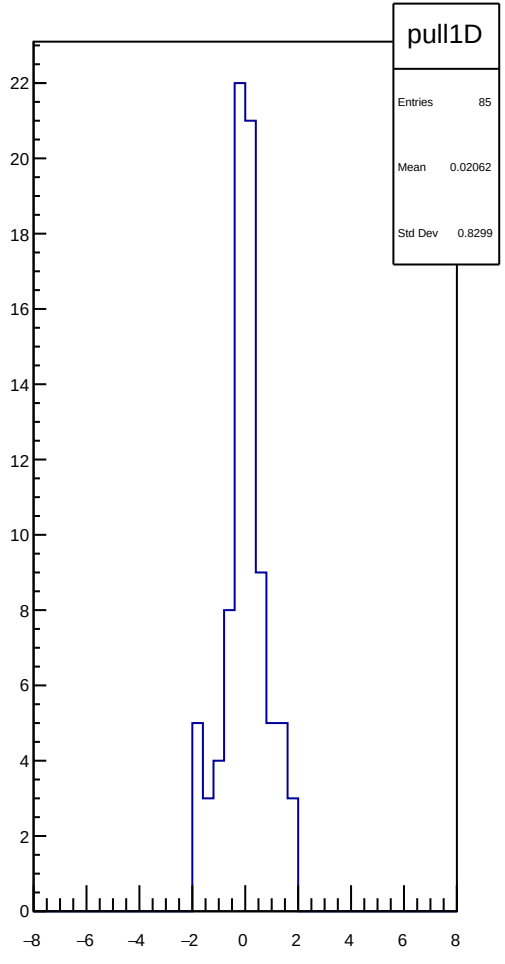

diff_cav4bX_rms vs run
×10^3
580
560
540
520
500
480
460
χ² / ndf 3511 / 84
p0 5.073e+05 ± 395.7

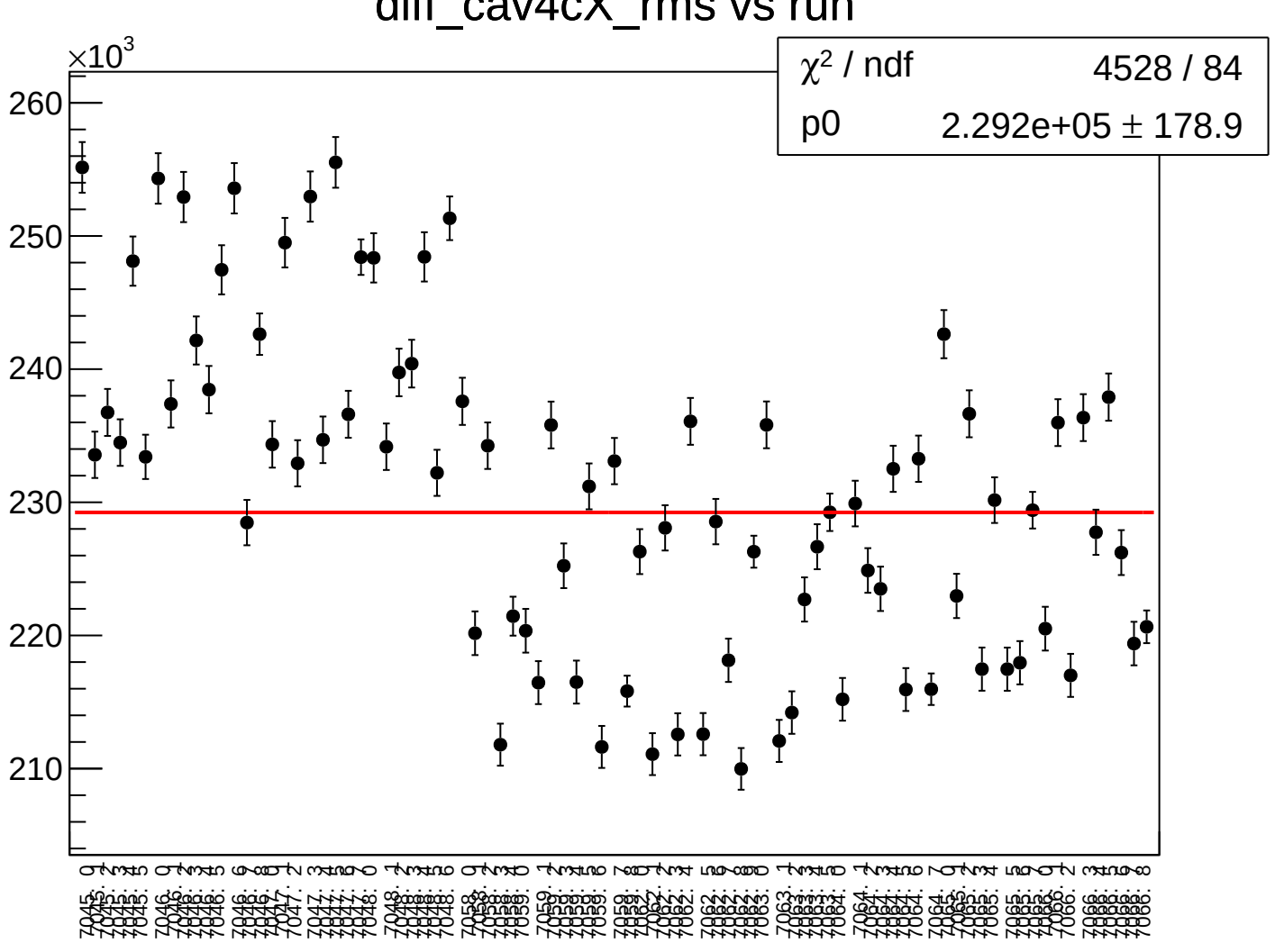

diff_cav4bY_mean vs run
χ² / ndf 87.54 / 84
p0 499.3 ± 376.4
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 228.9
Std Dev 0
2
1
0
−1
−2

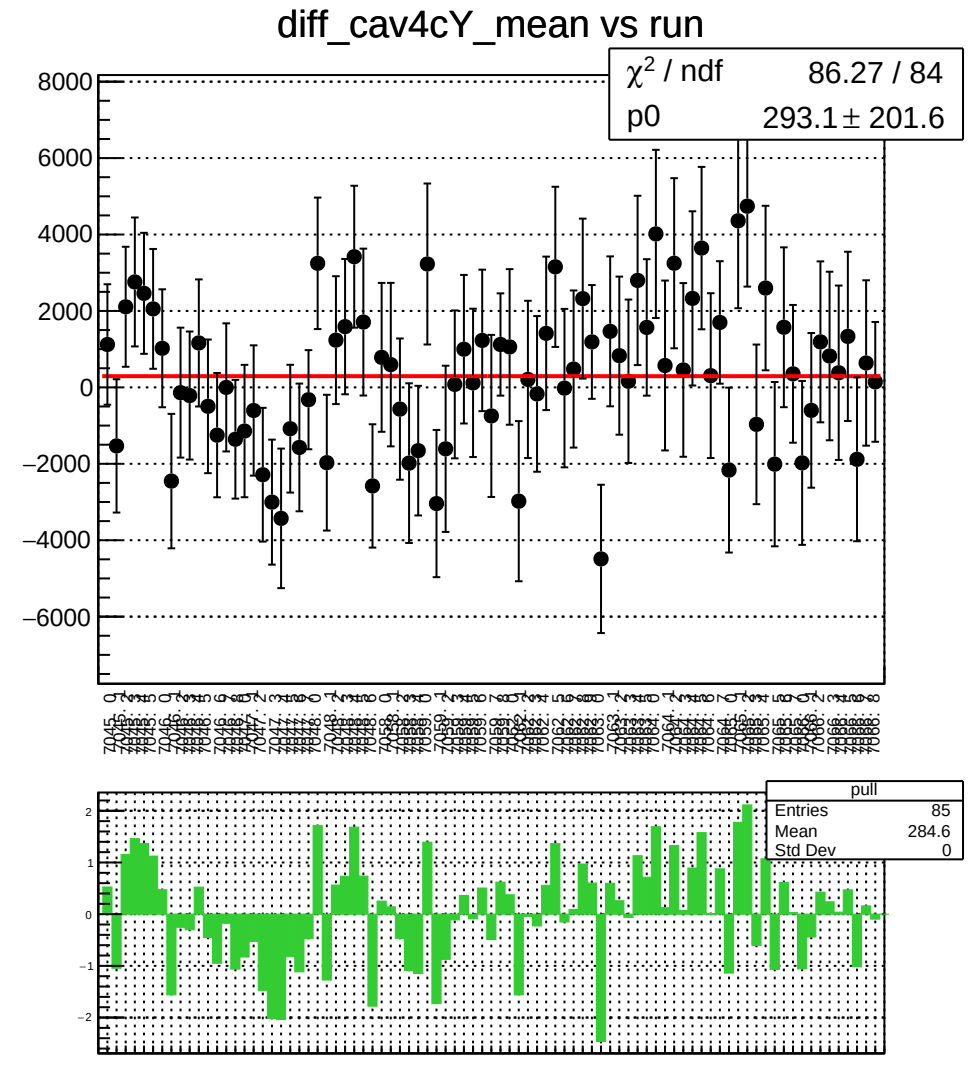

pull1D
Entries 85
Mean 0.01965
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

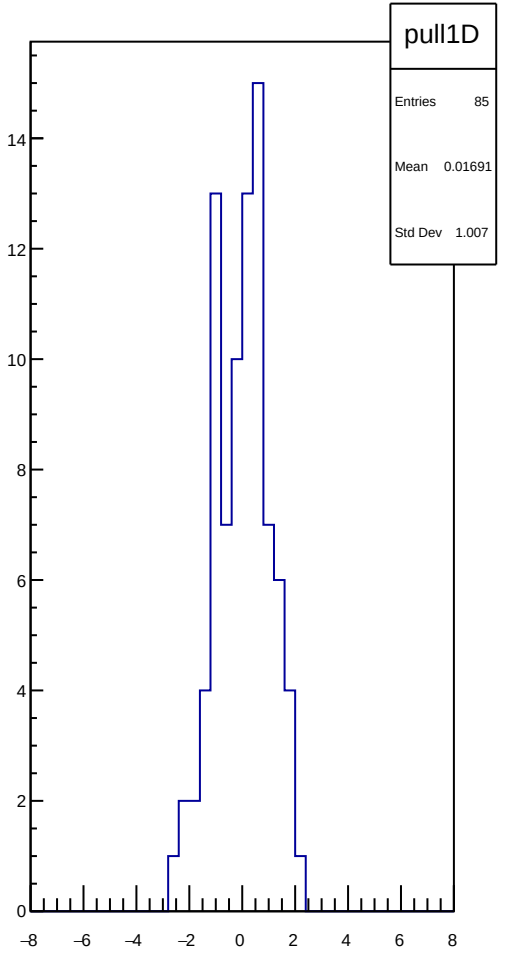

diff_cav4bY_rms vs run
×10^3
420
400
380
360
340
320
300
280
260
χ² / ndf 2.503e+04 / 84
p0 3.39e+05 ± 266.1

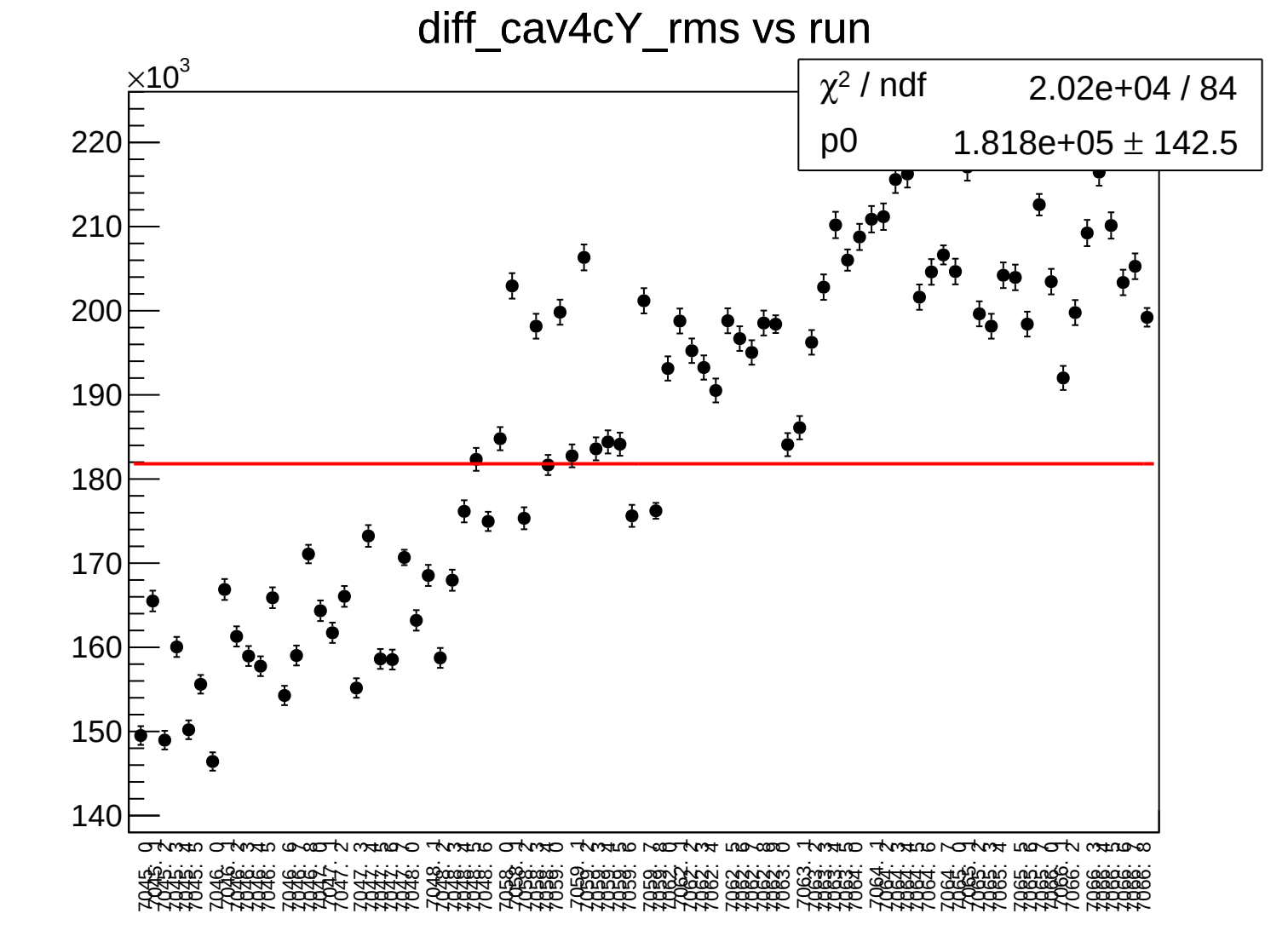

diff_cav4cX_mean vs run
χ² / ndf 58.58 / 84
p0 −350.9 ± 252.9
pull
Entries 85
Mean −135.3
Std Dev 0

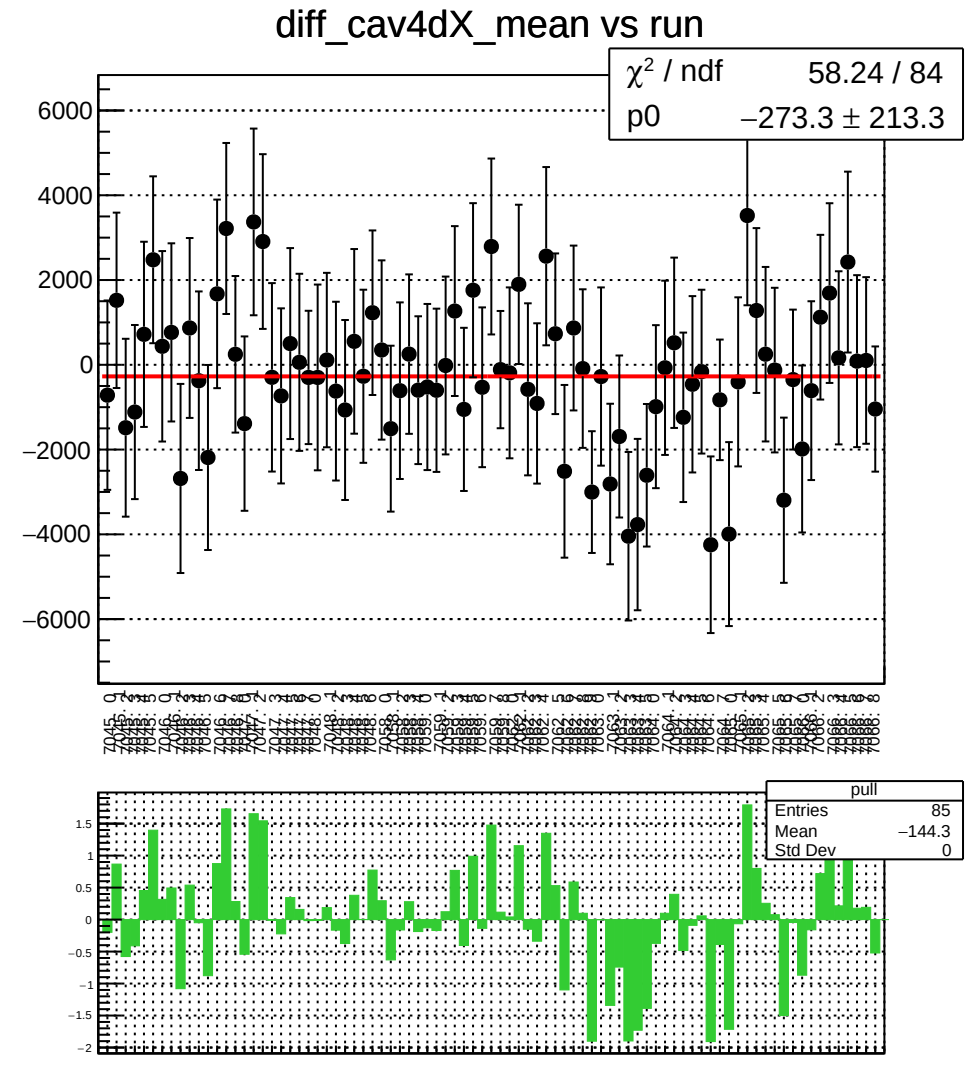

pull1D
Entries 85
Mean 0.02062
Std Dev 0.8299

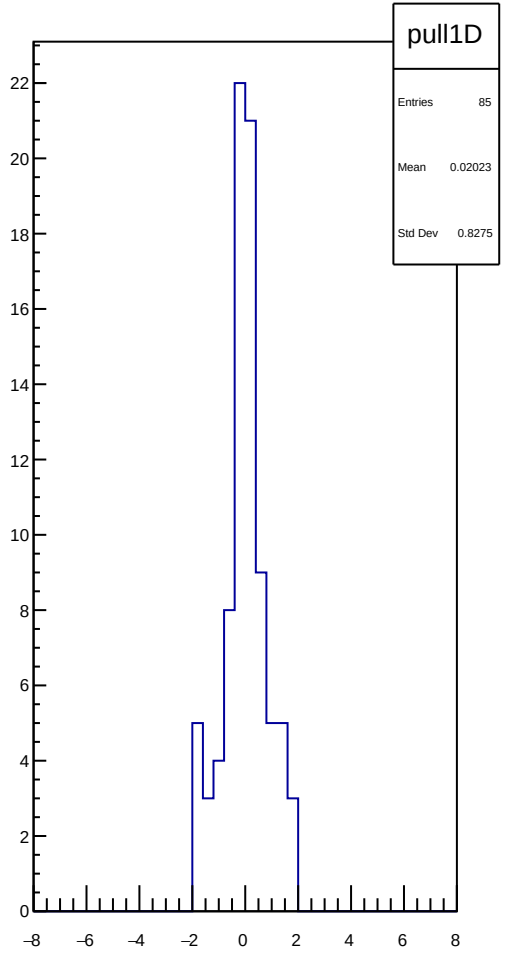

diff_cav4cX_rms vs run
×10^3
260
250
240
230
220
210
χ² / ndf 4528 / 84
p0 2.292e+05 ± 178.9

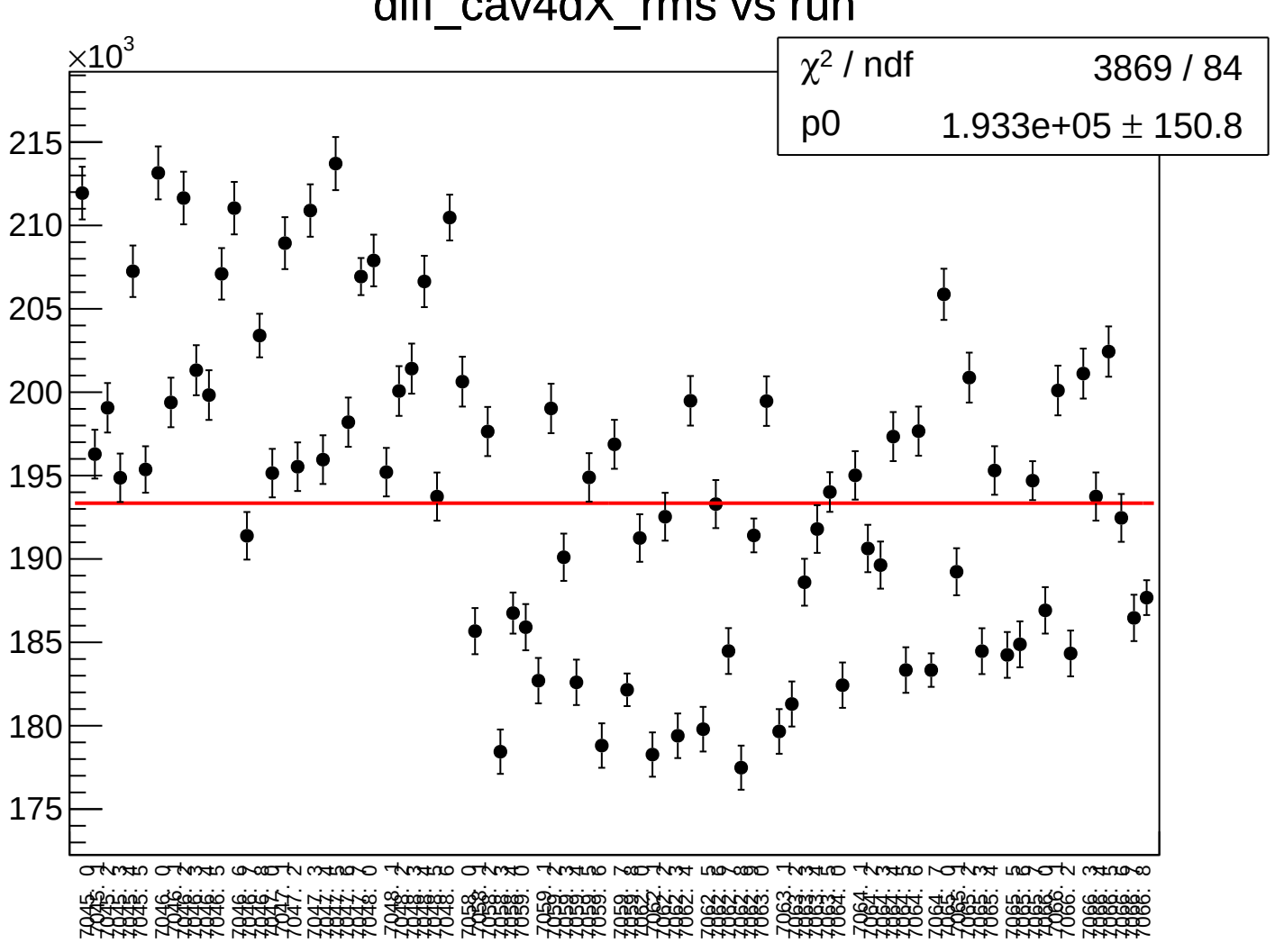

diff_cav4cY_mean vs run
χ² / ndf 86.27 / 84
p0 293.1 ± 201.6
pull
Entries 85
Mean 284.6
Std Dev 0

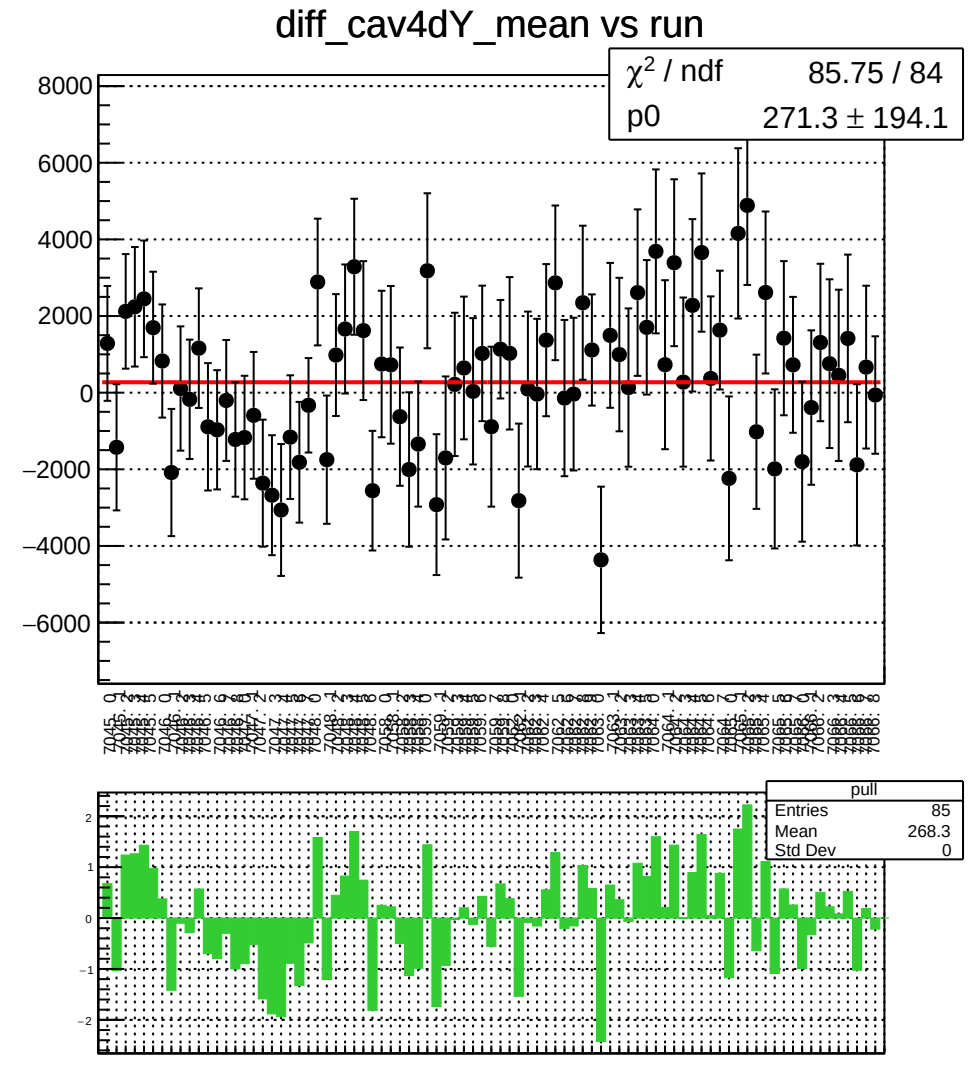

pull1D
Entries 85
Mean 0.01691
Std Dev 1.007

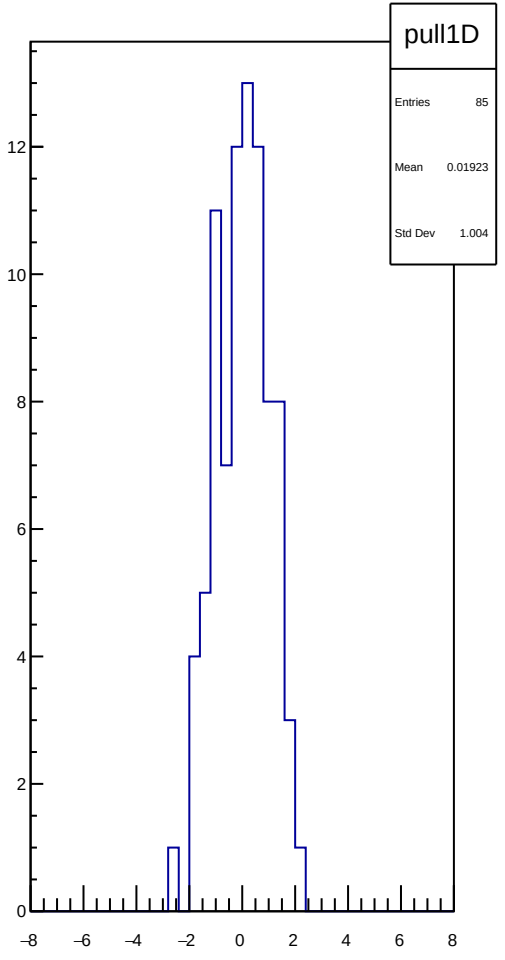

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2.02e+04 / 84
p0 1.818e+05 ± 142.5
220
210
200
190
180
170
160
150
140

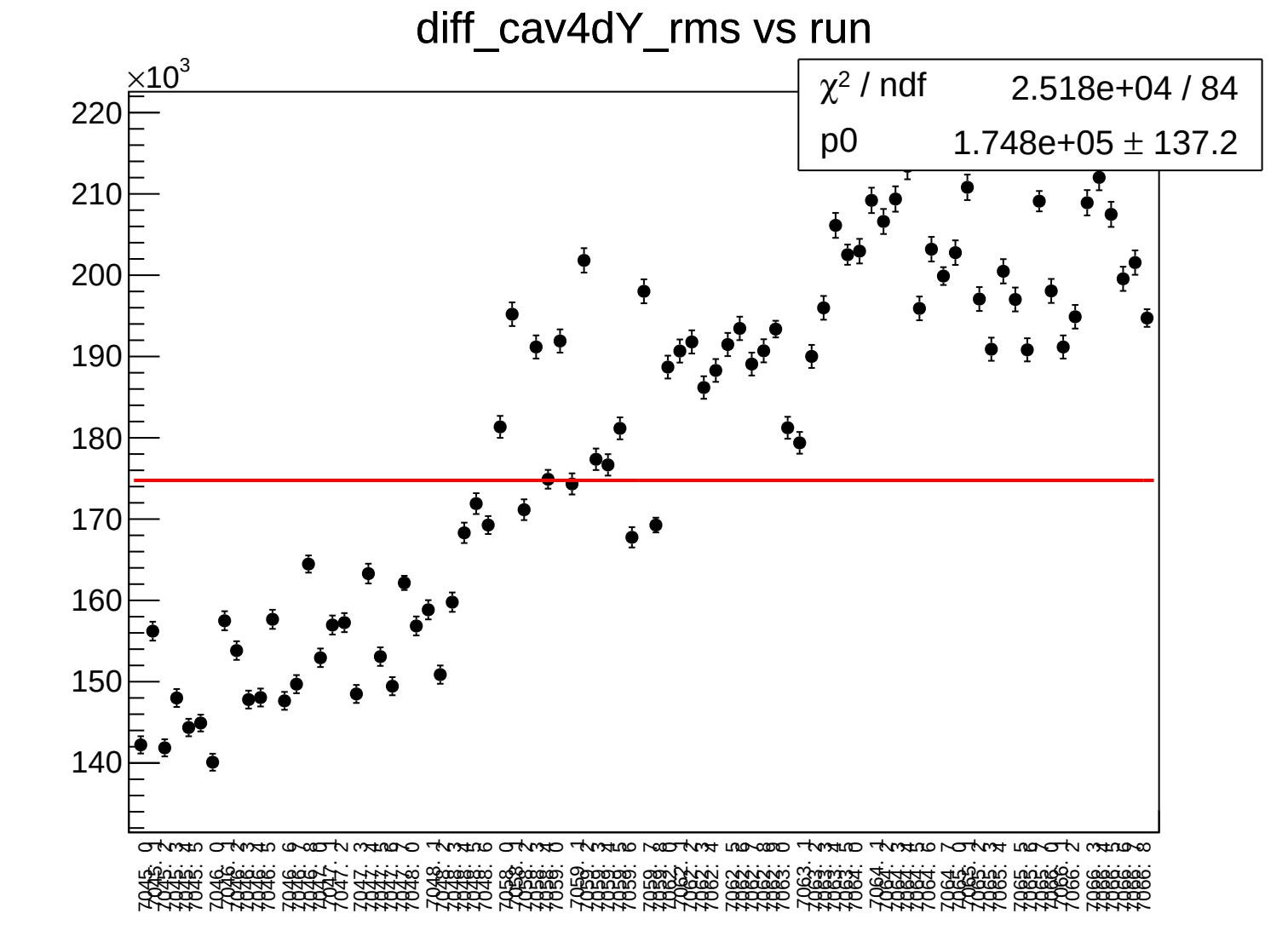

diff_cav4dX_mean vs run
χ² / ndf 58.24 / 84
p0 −273.3 ± 213.3
pull
Entries 85
Mean −144.3
Std Dev 0

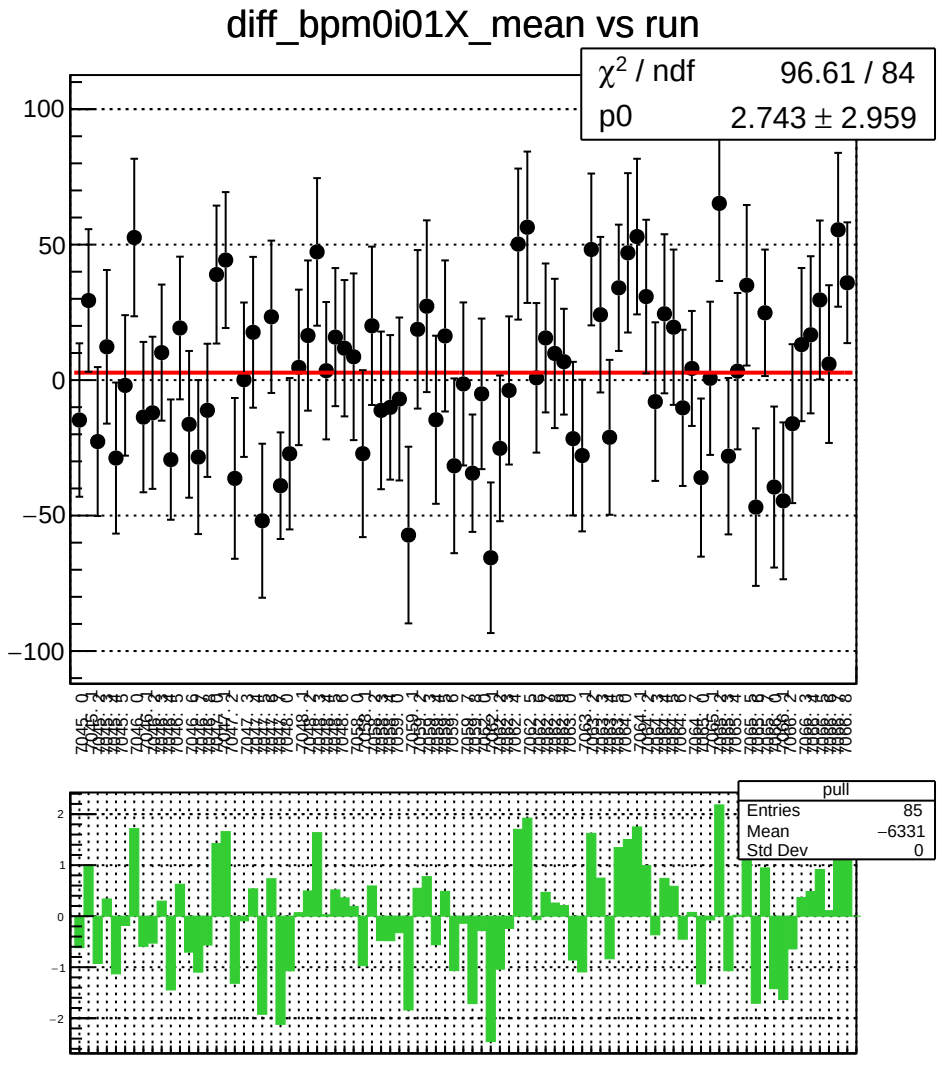

pull1D
Entries 85
Mean 0.02023
Std Dev 0.8275

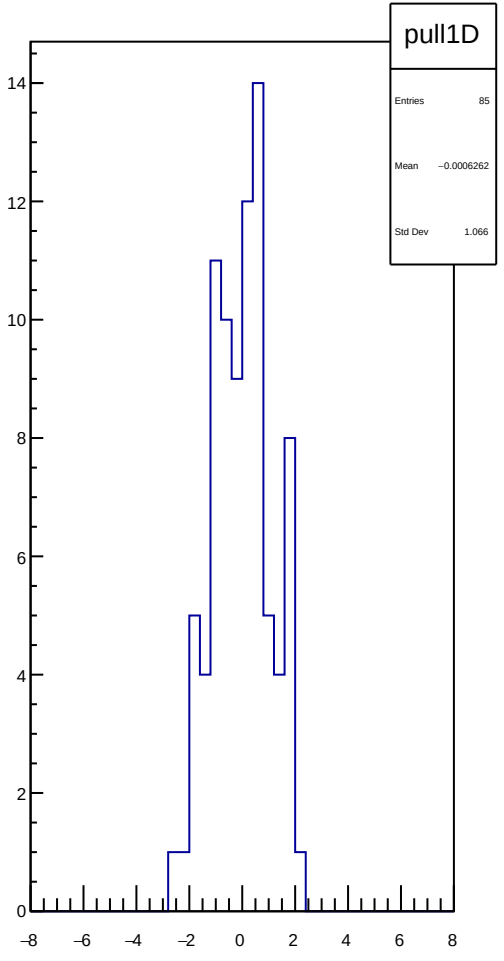

diff_cav4dX_rms vs run
×10^3
215
210
205
200
195
190
185
180
175
χ² / ndf 3869 / 84
p0 1.933e+05 ± 150.8

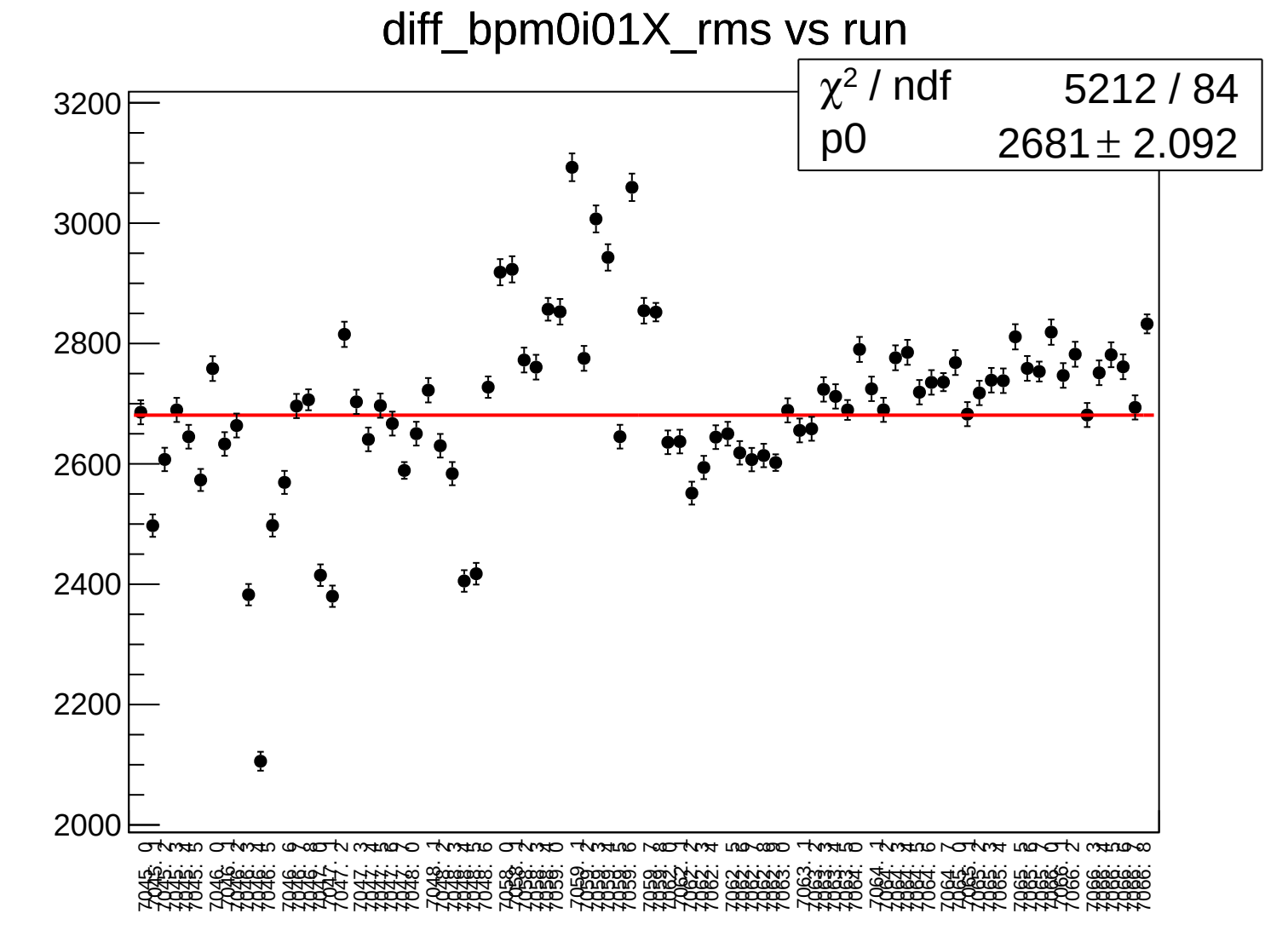

diff_cav4dY_mean vs run
χ² / ndf 85.75 / 84
p0 271.3 ± 194.1
pull
Entries 85
Mean 268.3
Std Dev 0

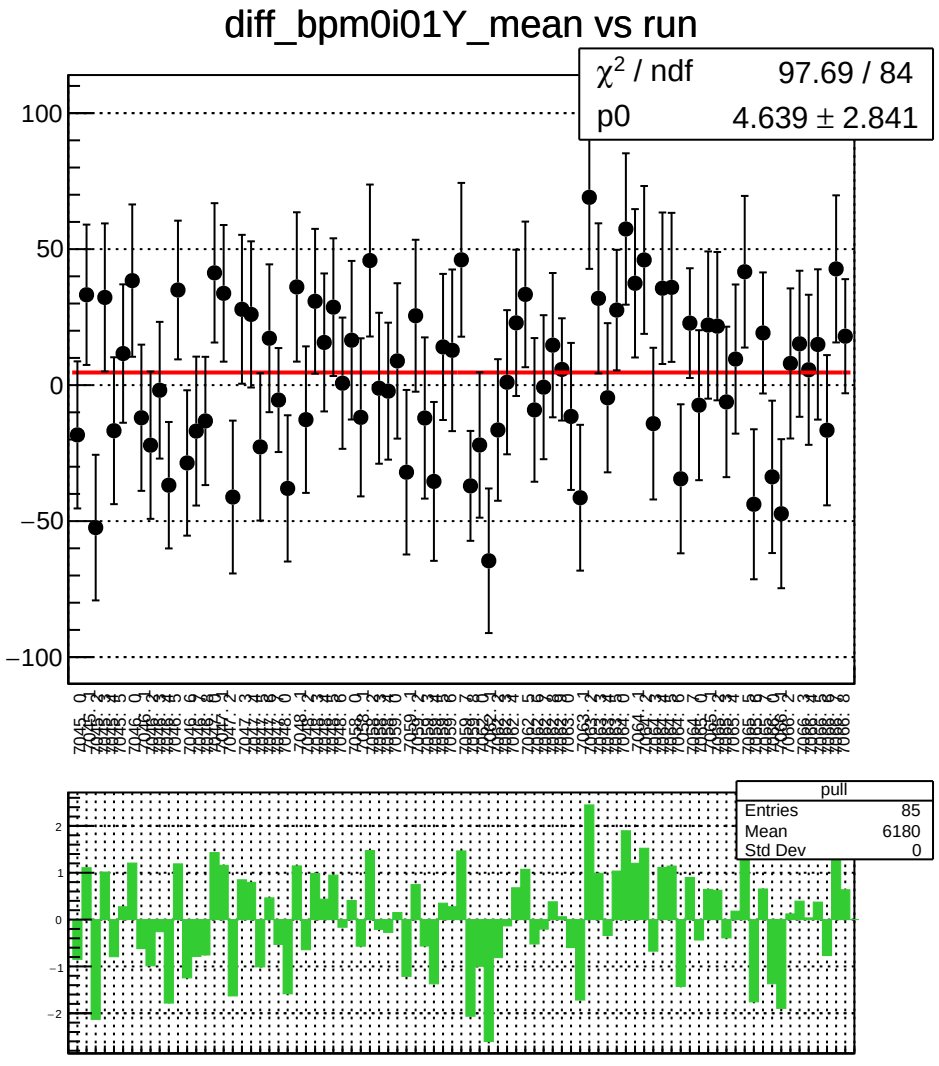

pull1D
Entries 85
Mean 0.01923
Std Dev 1.004

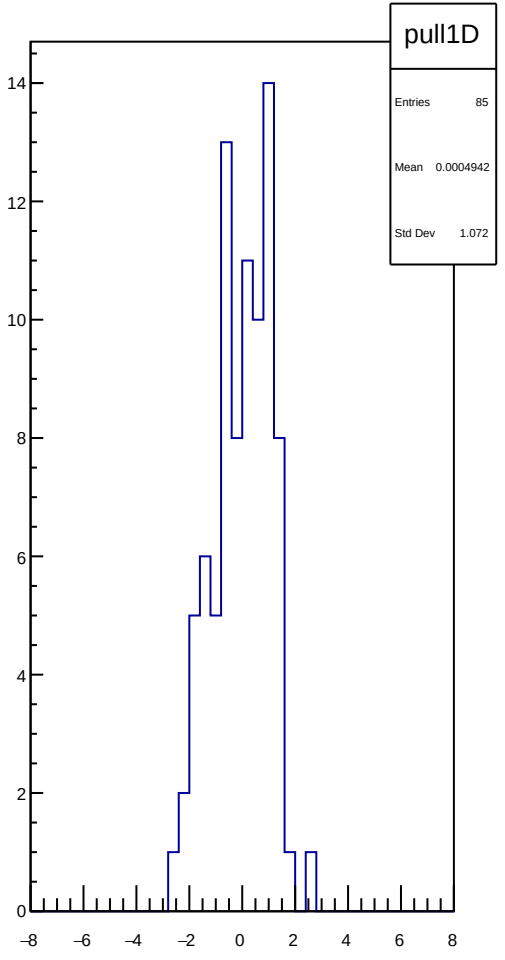

diff_cav4dY_rms vs run
×10^3
220
210
200
190
180
170
160
150
140
χ² / ndf 2.518e+04 / 84
p0 1.748e+05 ± 137.2

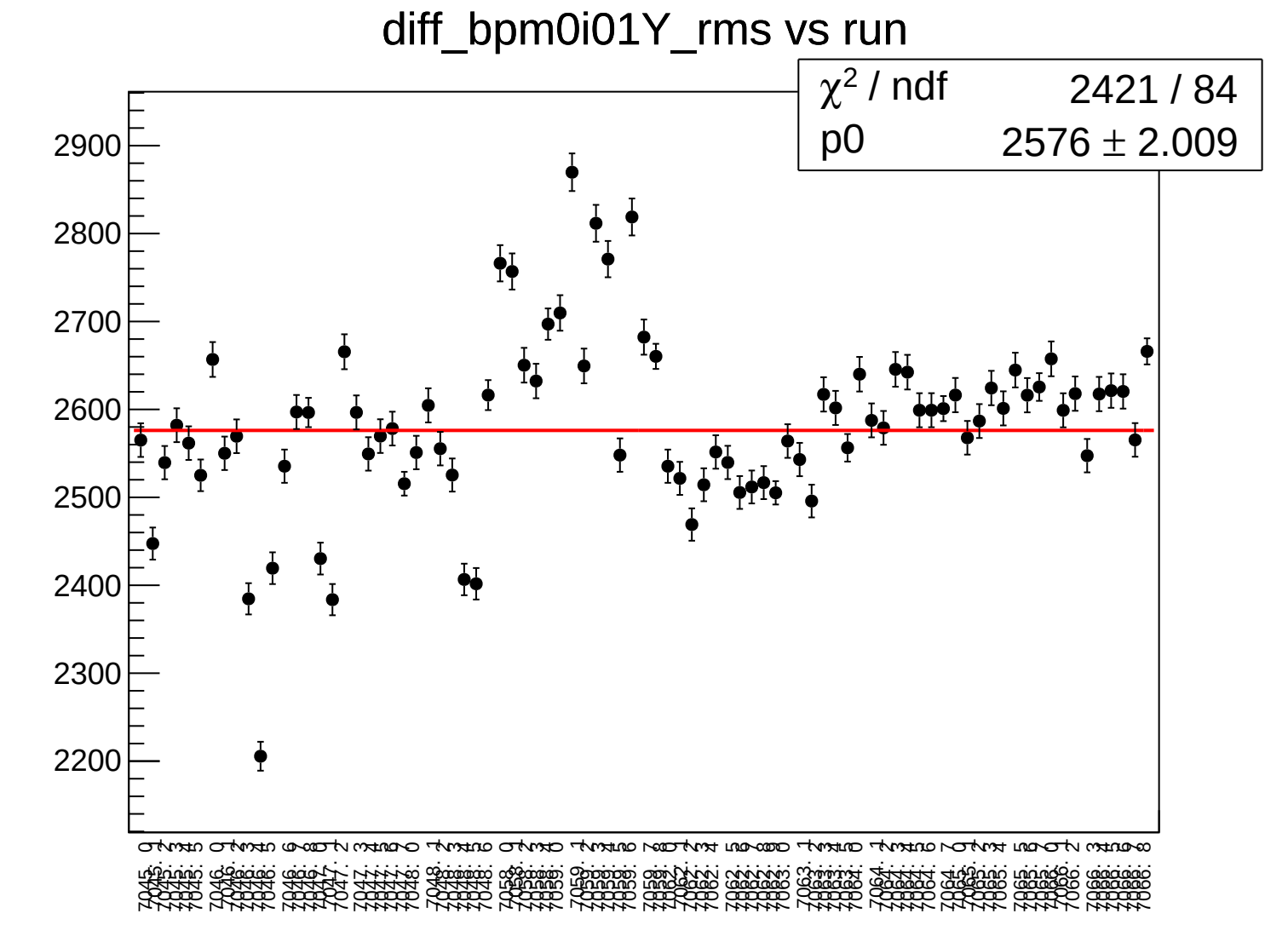

diff_bpm0i01X_mean vs run
χ^2 / ndf 96.61 / 84
p0 2.743 ± 2.959
100
50
0
−50
−100
pull
Entries 85
Mean −6331
Std Dev 0
2
1
0
−1
−2

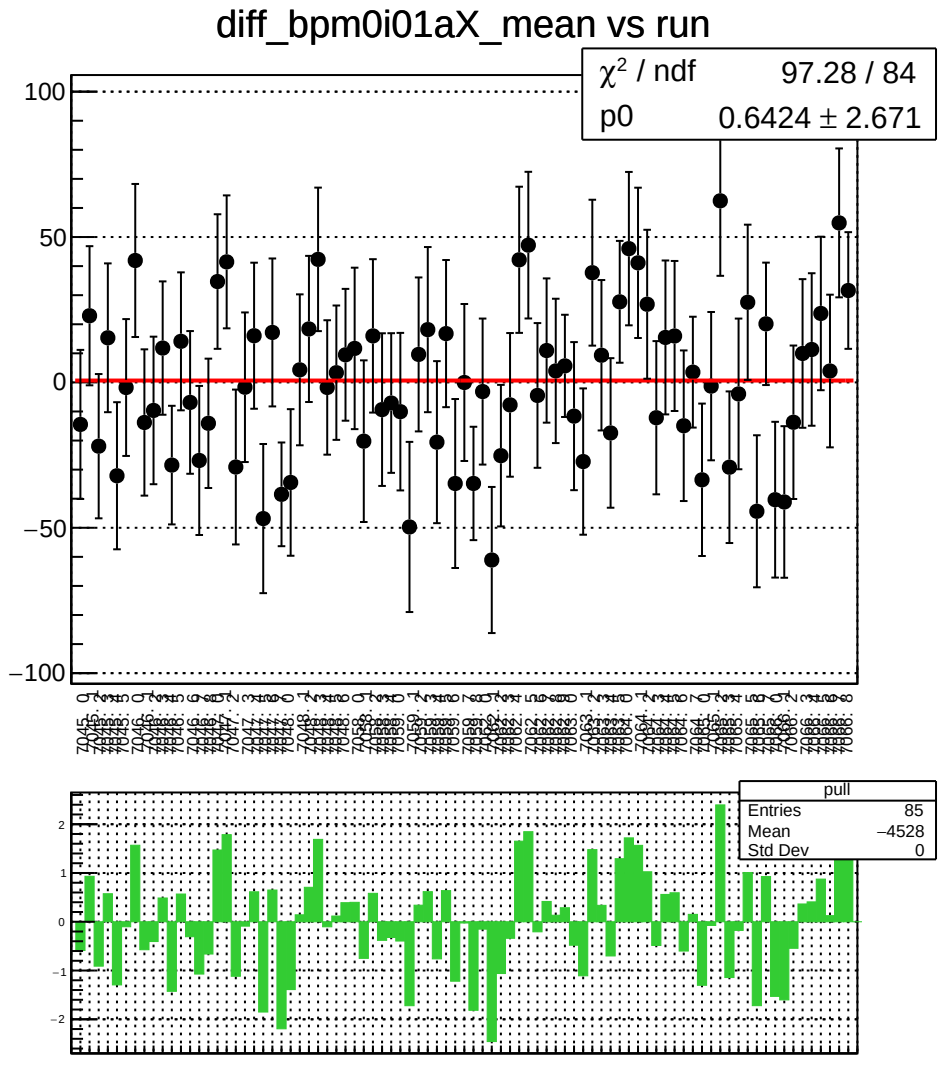

pull1D
Entries 85
Mean −0.0006262
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

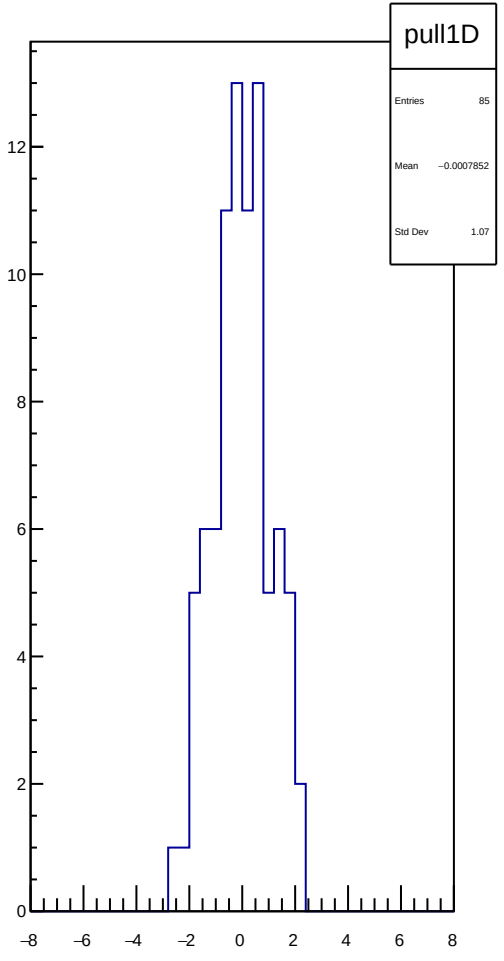

diff_bpm0i01X_rms vs run
χ² / ndf 5212 / 84
p0 2681 ± 2.092
3200
3000
2800
2600
2400
2200
2000

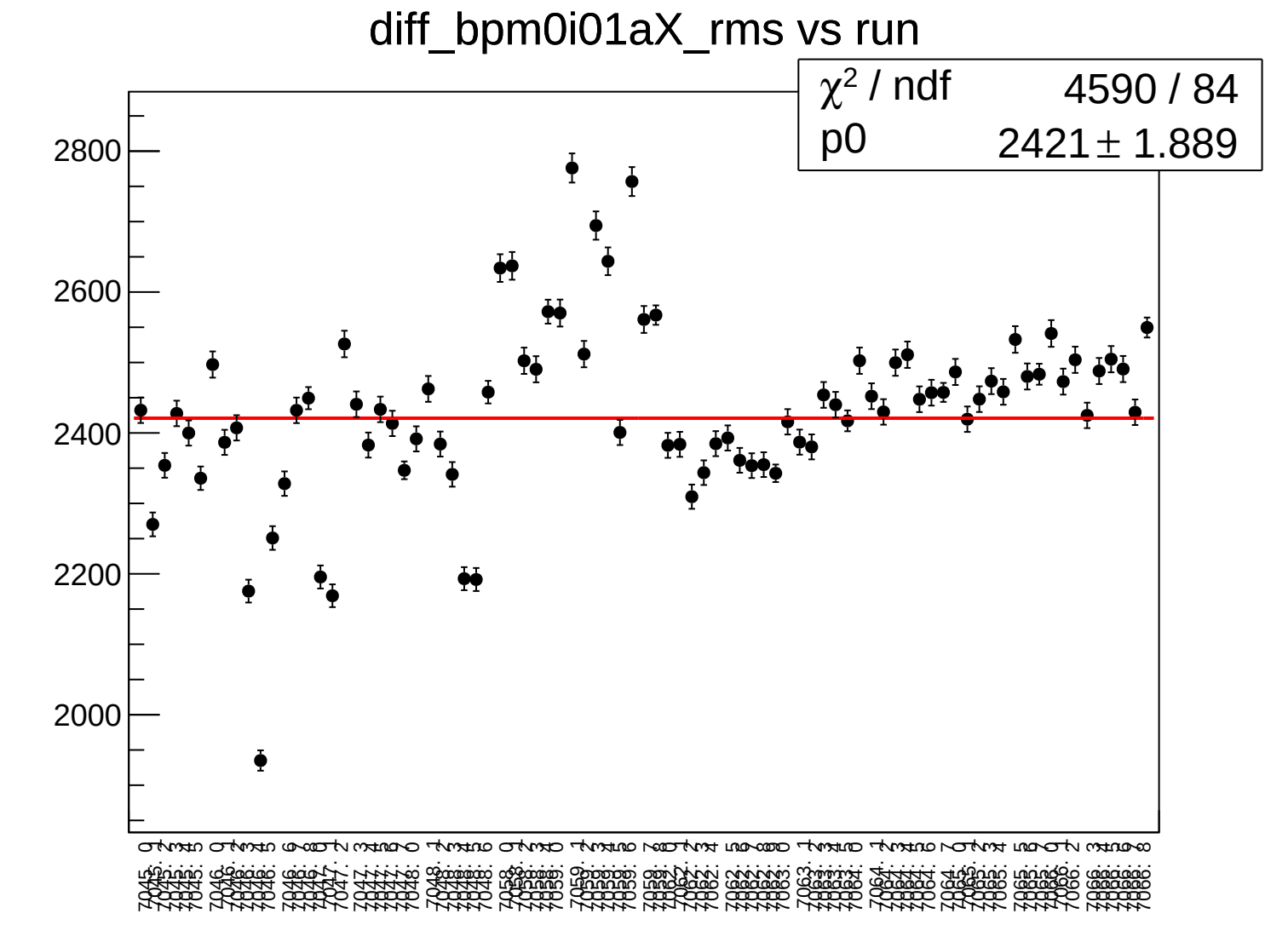

diff_bpm0i01Y_mean vs run
χ^2 / ndf 97.69 / 84
p0 4.639 ± 2.841
pull
Entries 85
Mean 6180
Std Dev 0

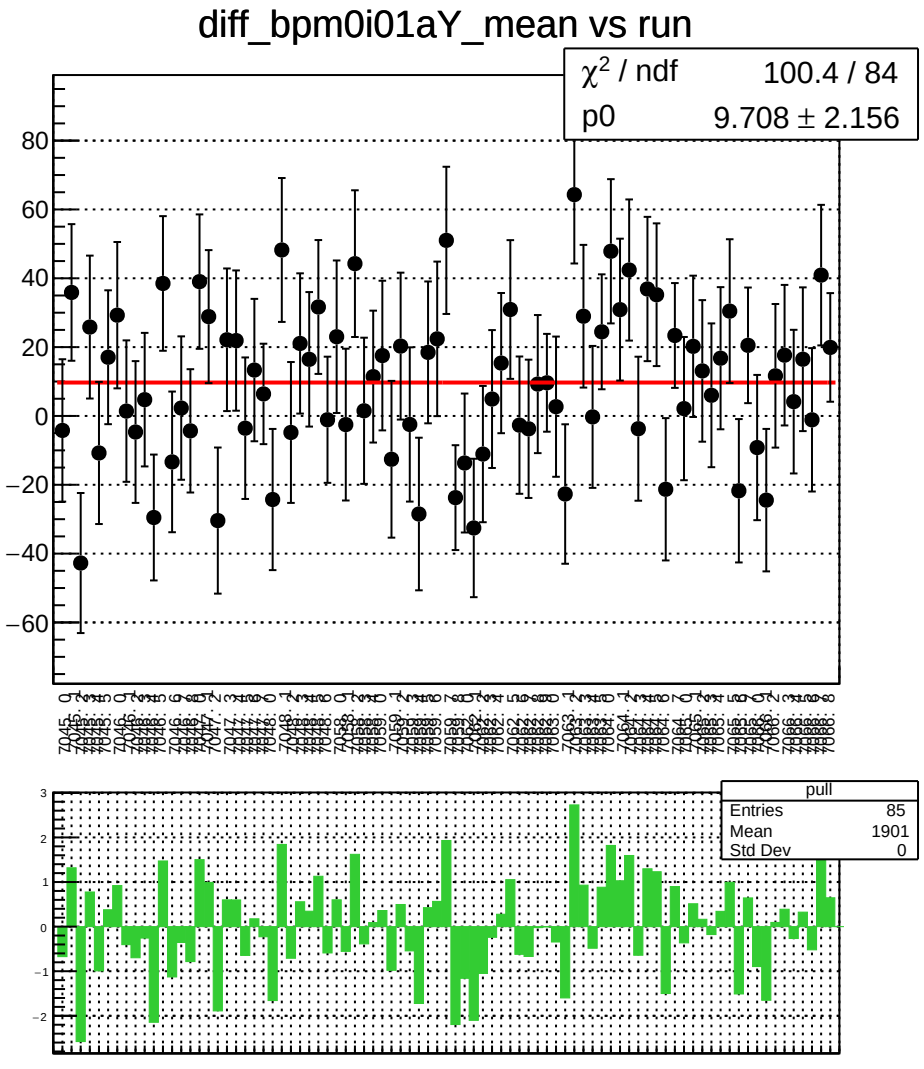

pull1D
Entries 85
Mean 0.0004942
Std Dev 1.072

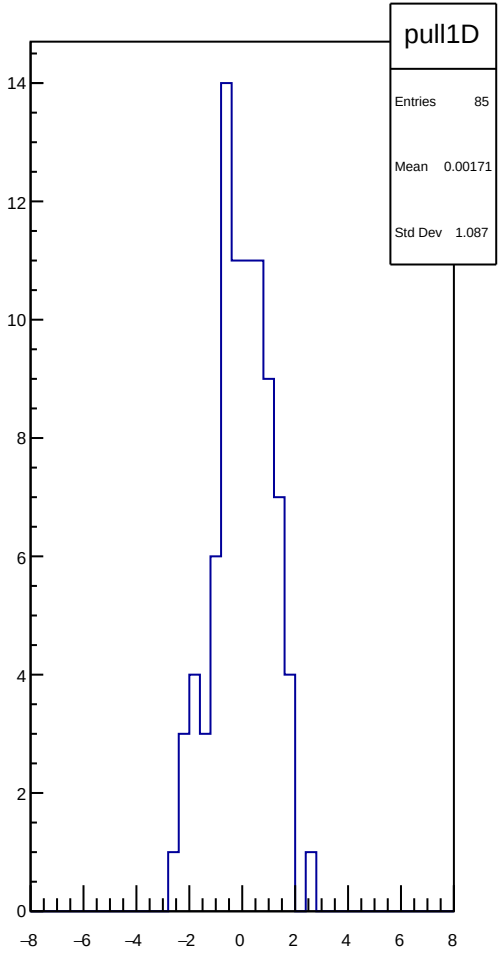

diff_bpm0i01Y_rms vs run
χ^2 / ndf 2421 / 84
p0 2576 ± 2.009
2900
2800
2700
2600
2500
2400
2300
2200

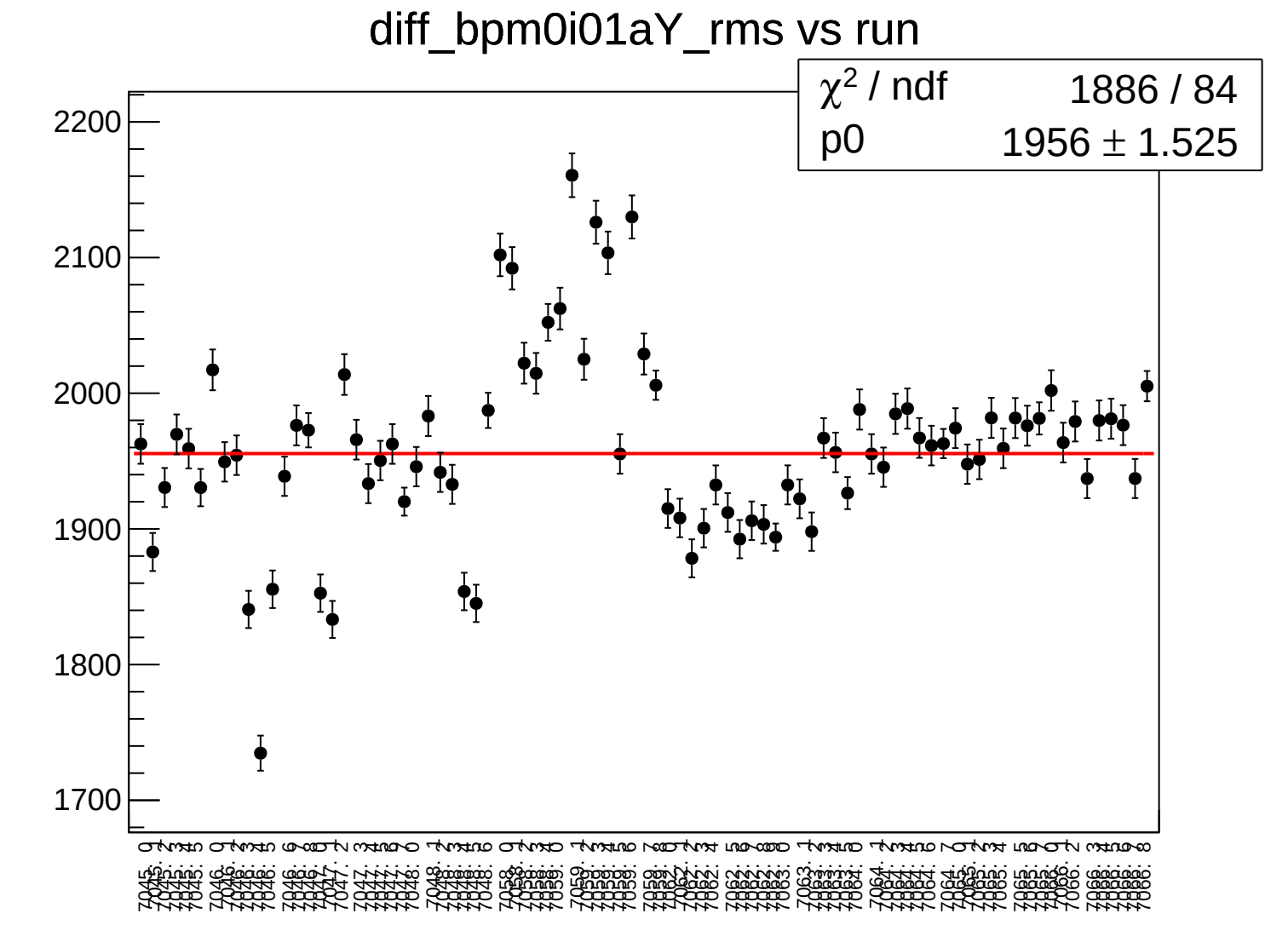

diff_bpm0i01aX_mean vs run
χ^2 / ndf 97.28 / 84
p0 0.6424 ± 2.671
100
50
0
−50
−100
pull
Entries 85
Mean −4528
Std Dev 0
2
1
0
−1
−2

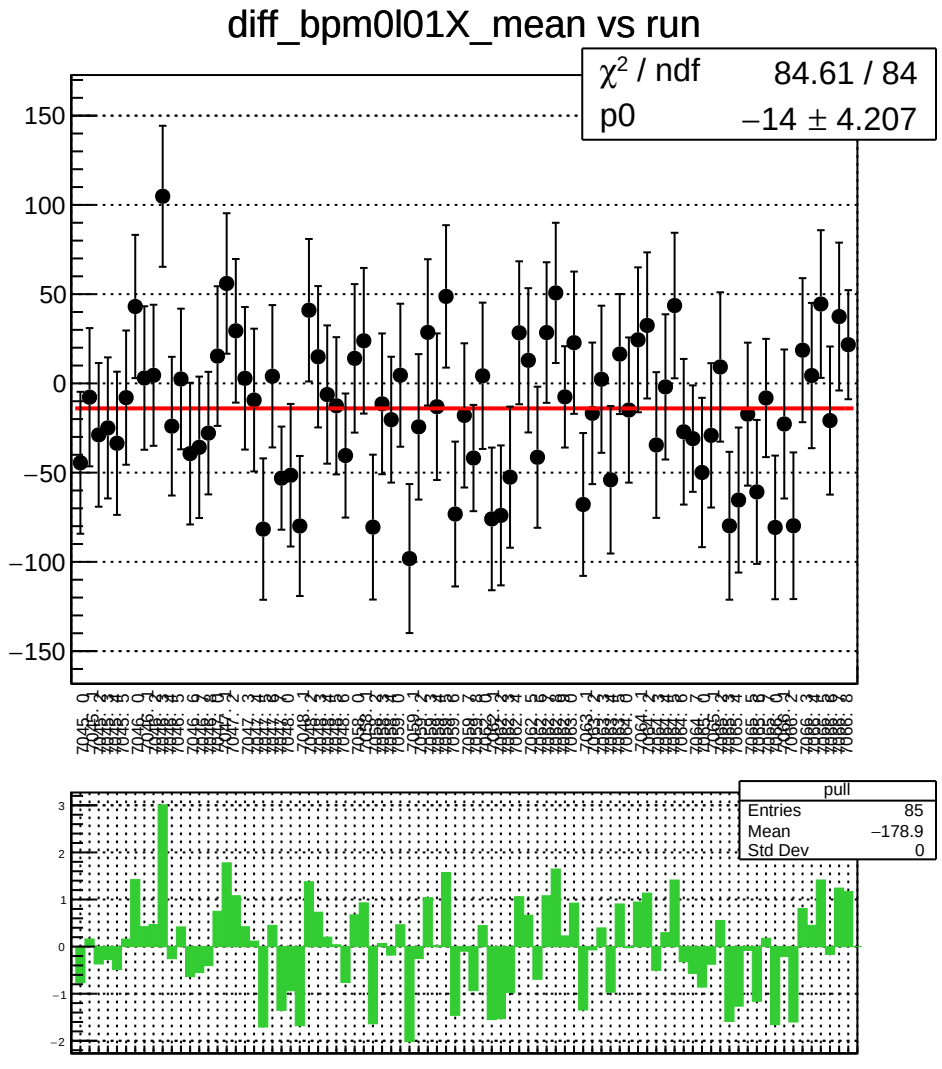

pull1D
Entries 85
Mean −0.0007852
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

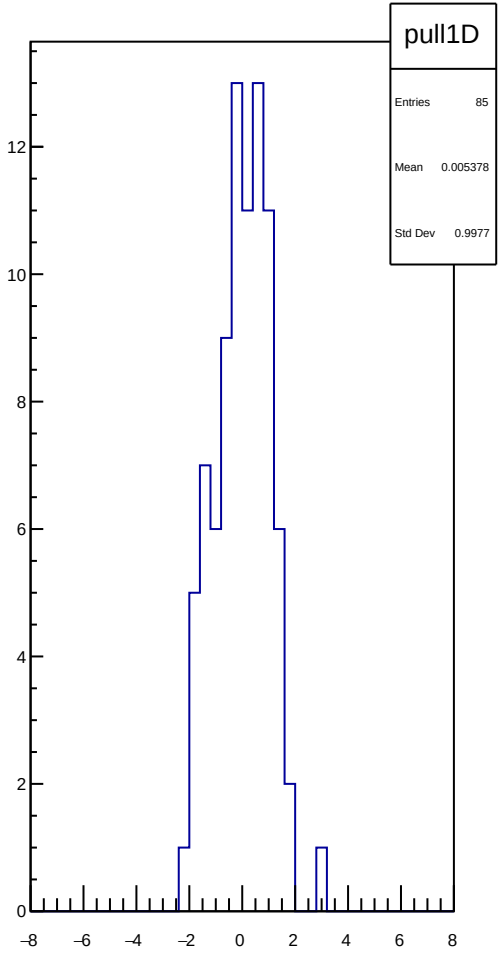

diff_bpm0i01aX_rms vs run
χ² / ndf 4590 / 84
p0 2421 ± 1.889
2800
2600
2400
2200
2000

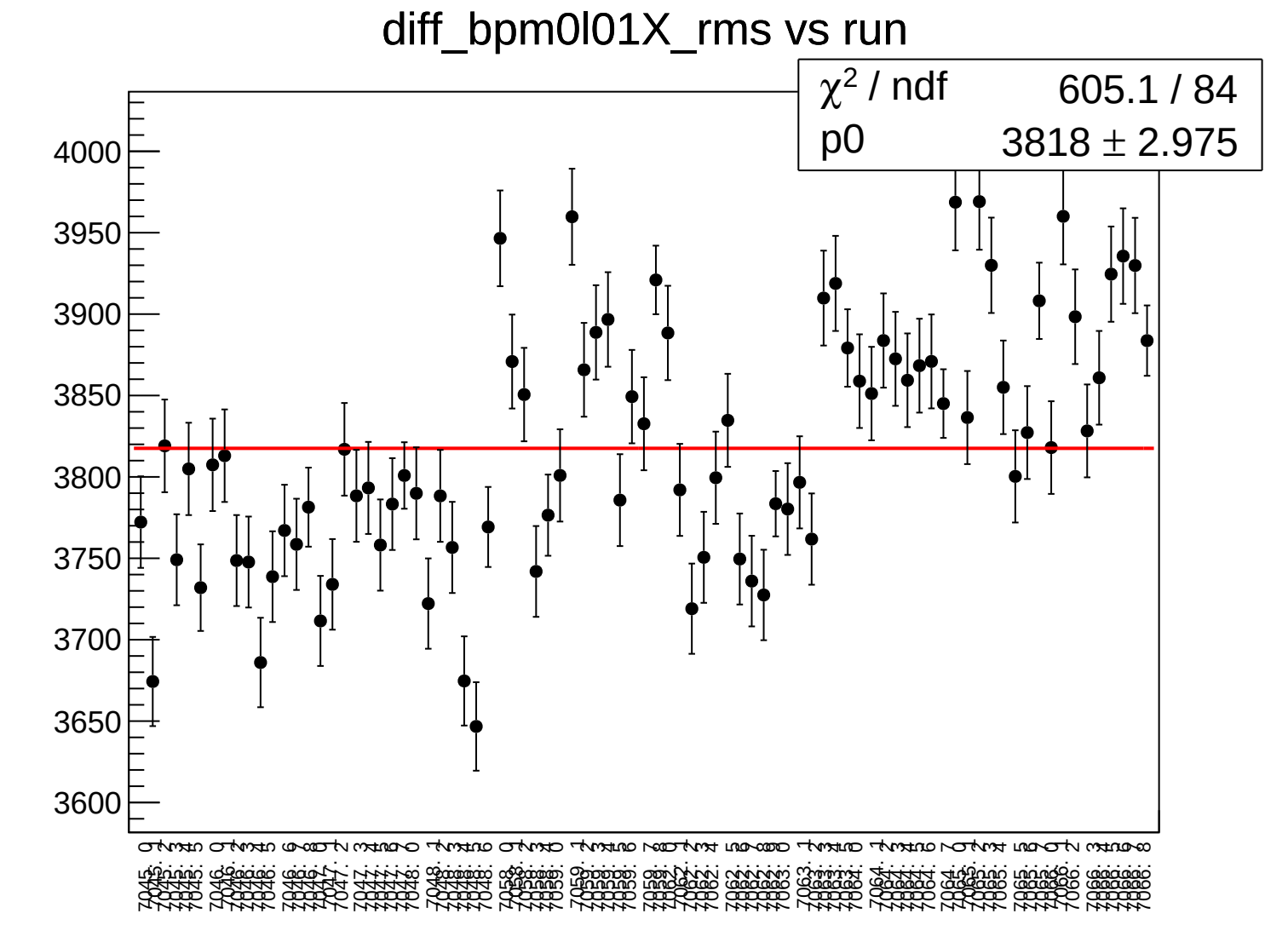

diff_bpm0i01aY_mean vs run
χ² / ndf 100.4 / 84
p0 9.708 ± 2.156
pull
Entries 85
Mean 1901
Std Dev 0

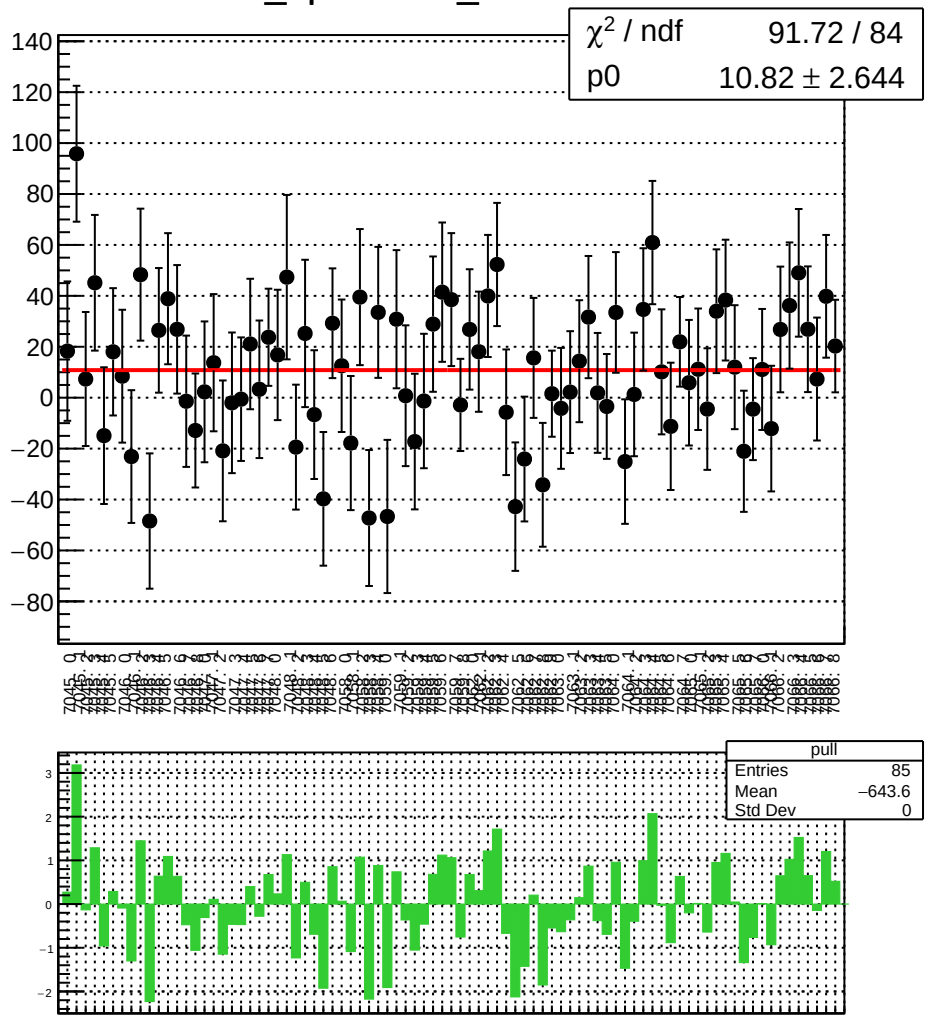

pull1D
Entries 85
Mean 0.00171
Std Dev 1.087

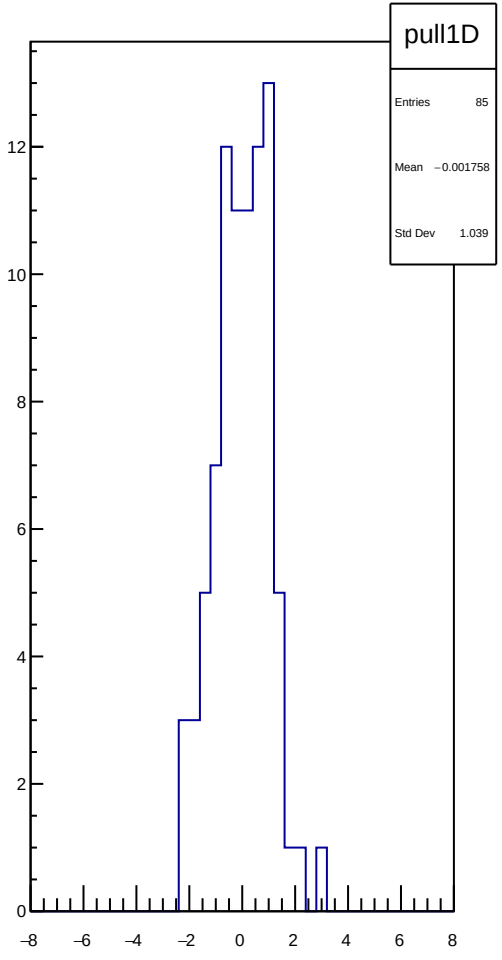

diff_bpm0i01aY_rms vs run
χ^2 / ndf 1886 / 84
p0 1956 ± 1.525
2200
2100
2000
1900
1800
1700

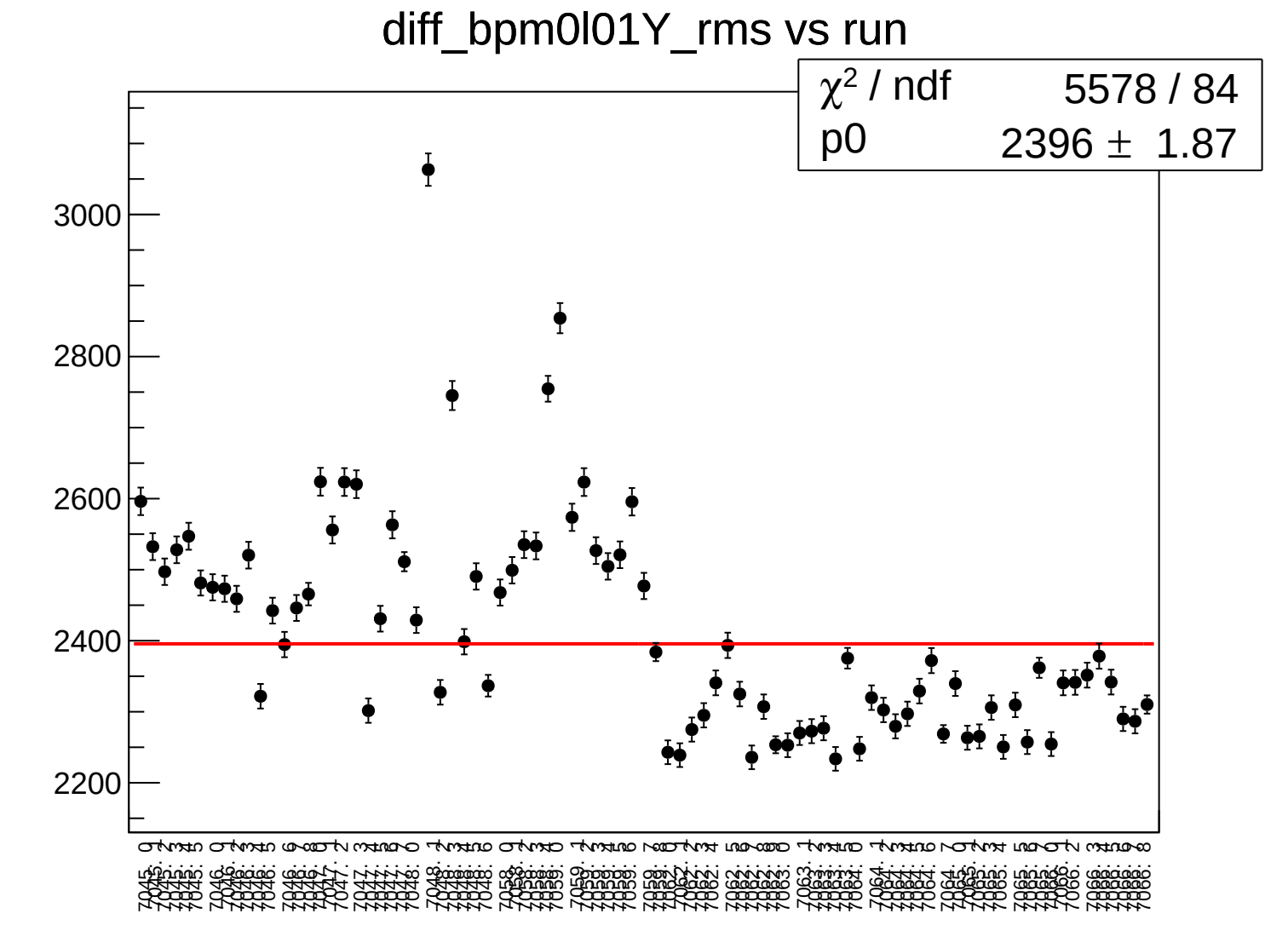

diff_bpm0l01X_mean vs run
χ² / ndf 84.61 / 84
p0 −14 ± 4.207
pull
Entries 85
Mean −178.9
Std Dev 0

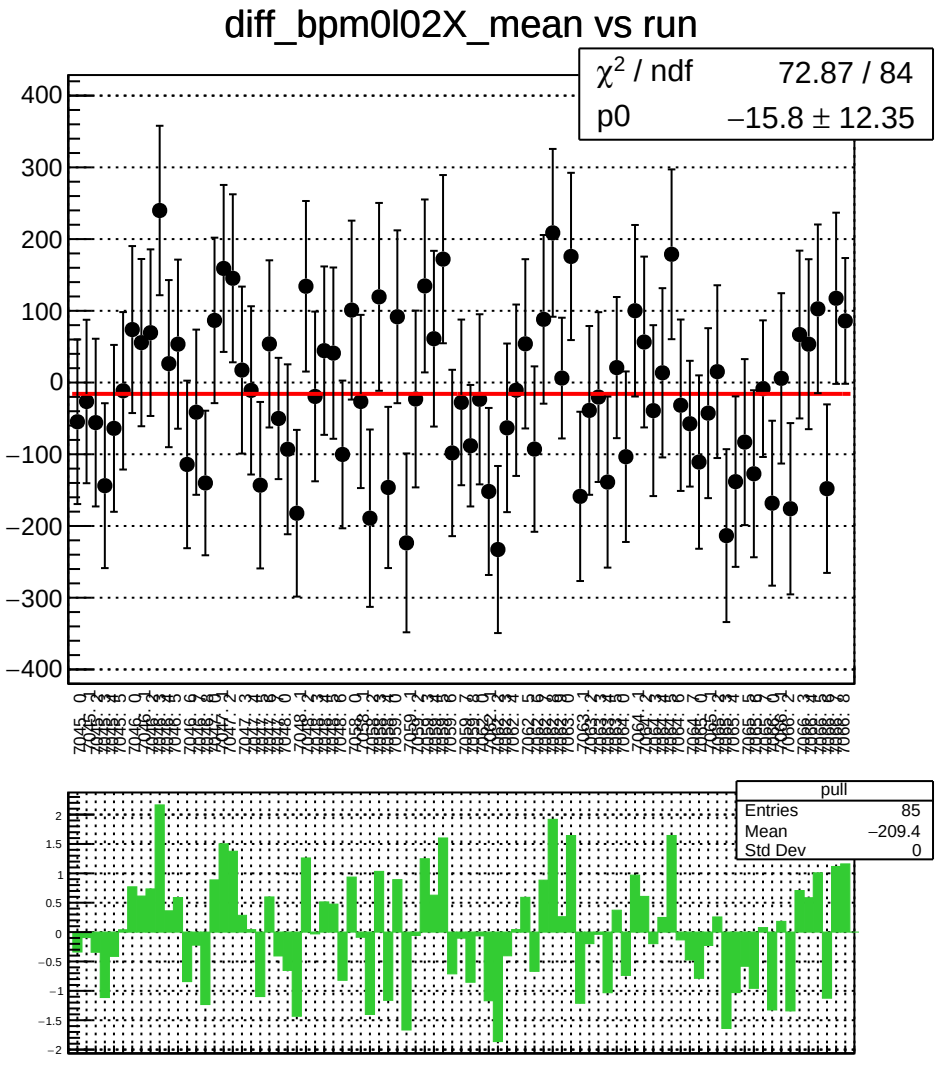

pull1D
Entries 85
Mean 0.005378
Std Dev 0.9977

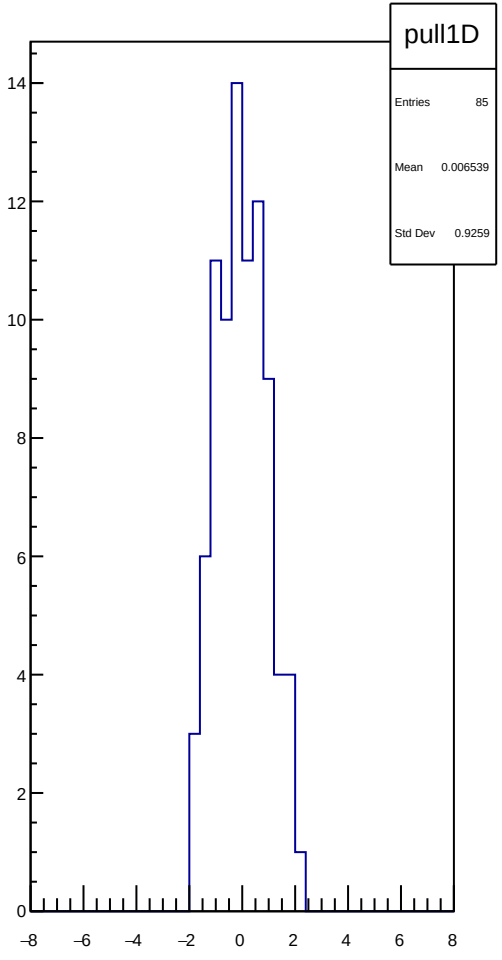

diff_bpm0l01X_rms vs run
χ² / ndf 605.1 / 84
p0 3818 ± 2.975
4000
3950
3900
3850
3800
3750
3700
3650
3600

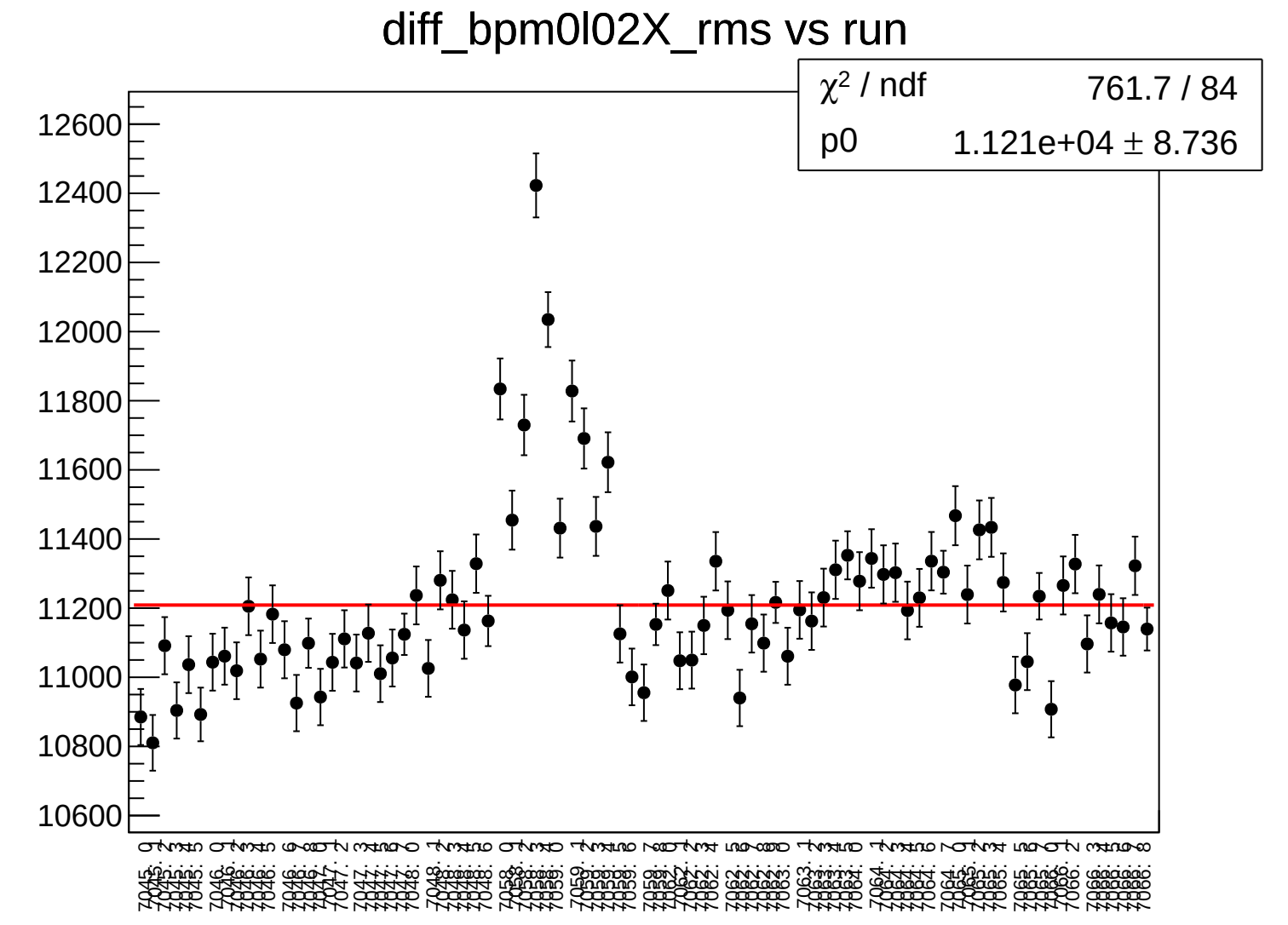

diff_bpm0l01Y_mean vs run
χ^2 / ndf 91.72 / 84
p0 10.82 ± 2.644
pull
Entries 85
Mean −643.6
Std Dev 0

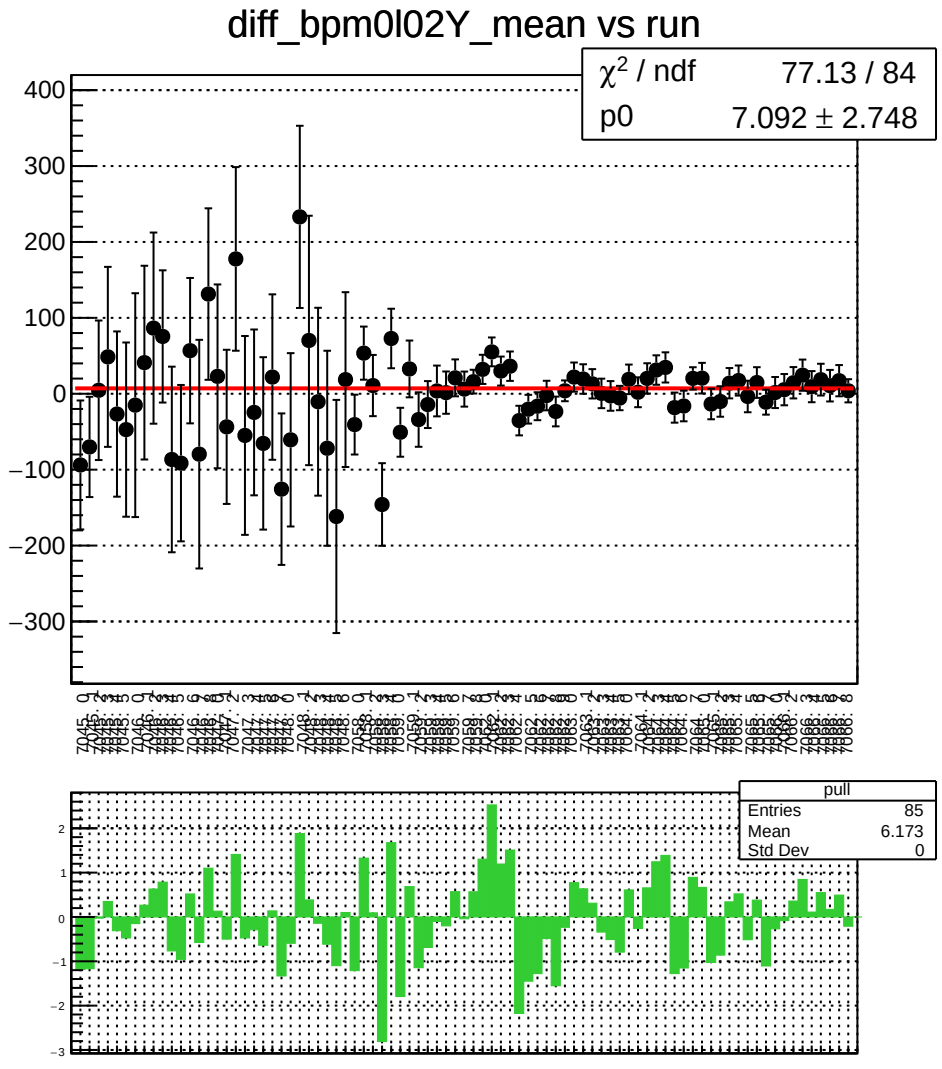

pull1D
Entries 85
Mean −0.001758
Std Dev 1.039

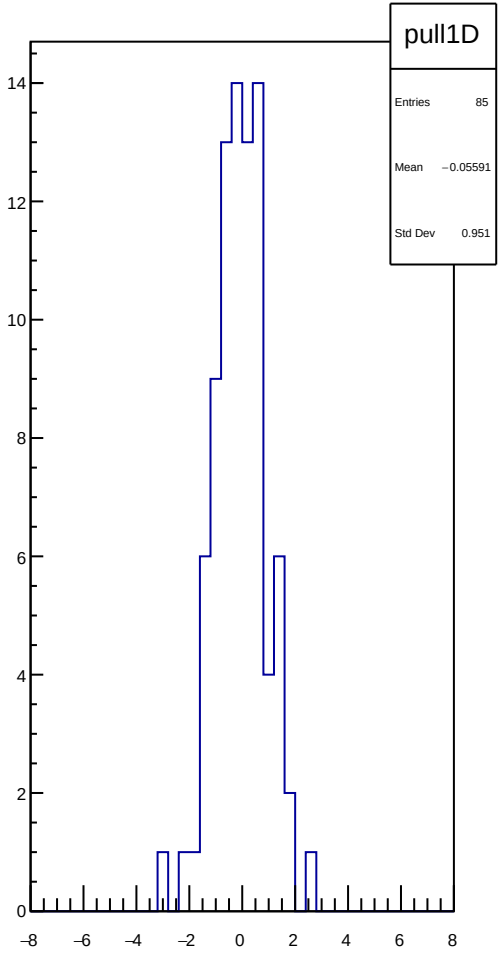

diff_bpm0l01Y_rms vs run
χ² / ndf 5578 / 84
p0 2396 ± 1.87
3000
2800
2600
2400
2200

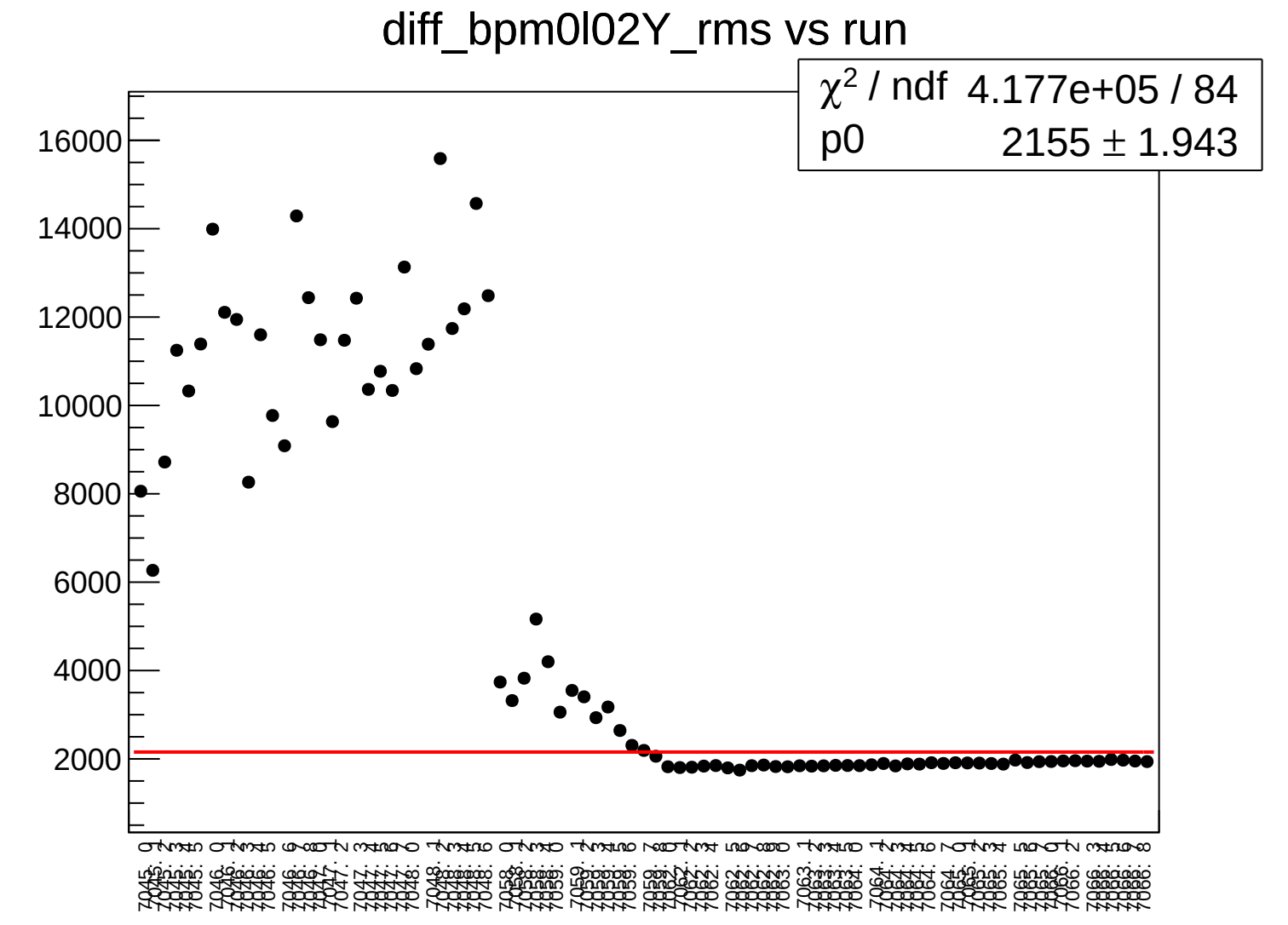

diff_bpm0l02X_mean vs run
χ² / ndf 72.87 / 84
p0 −15.8 ± 12.35
pull
Entries 85
Mean −209.4
Std Dev 0

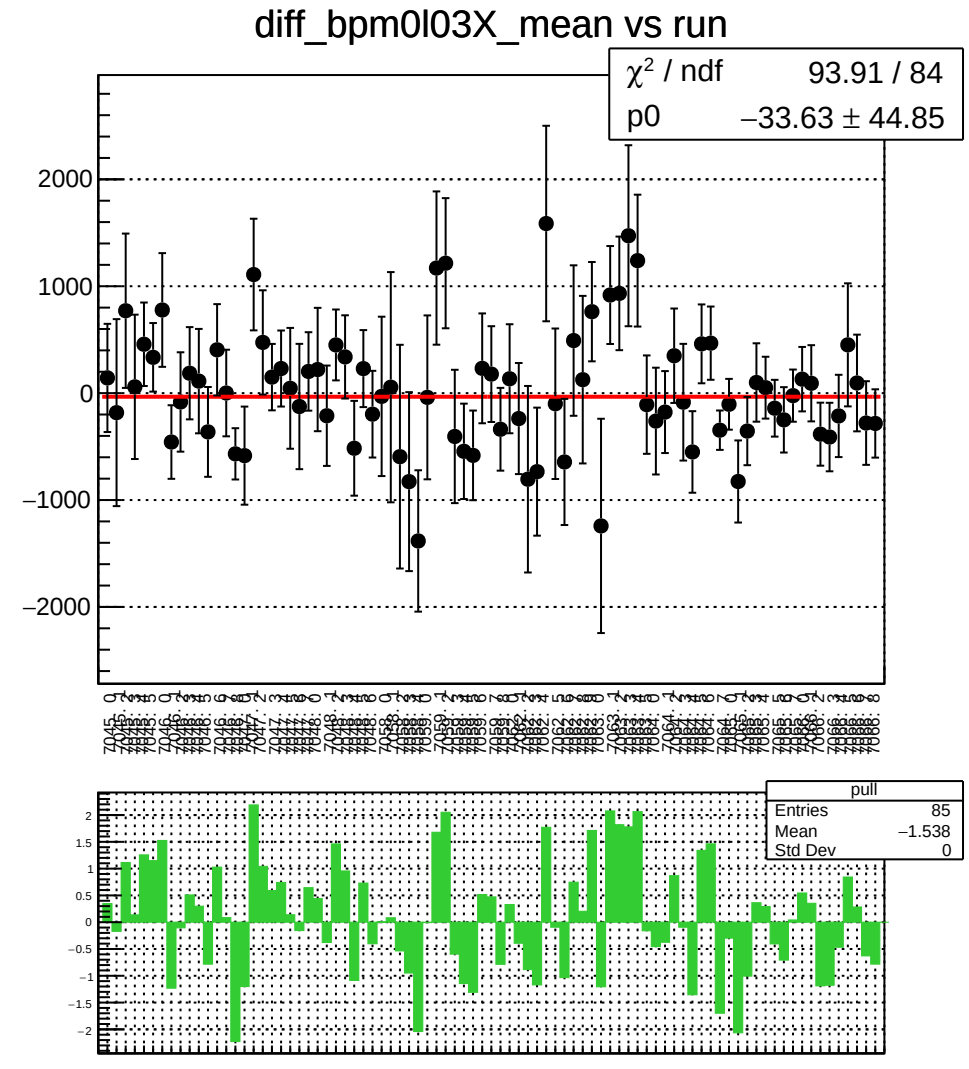

pull1D
Entries 85
Mean 0.006539
Std Dev 0.9259

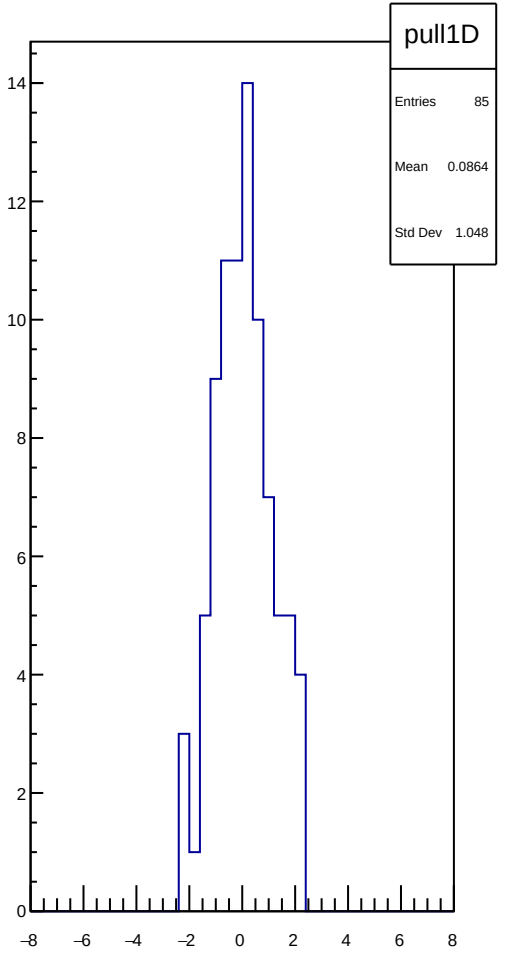

diff_bpm0l02X_rms vs run
χ² / ndf 761.7 / 84
p0 1.121e+04 ± 8.736
12600
12400
12200
12000
11800
11600
11400
11200
11000
10800
10600

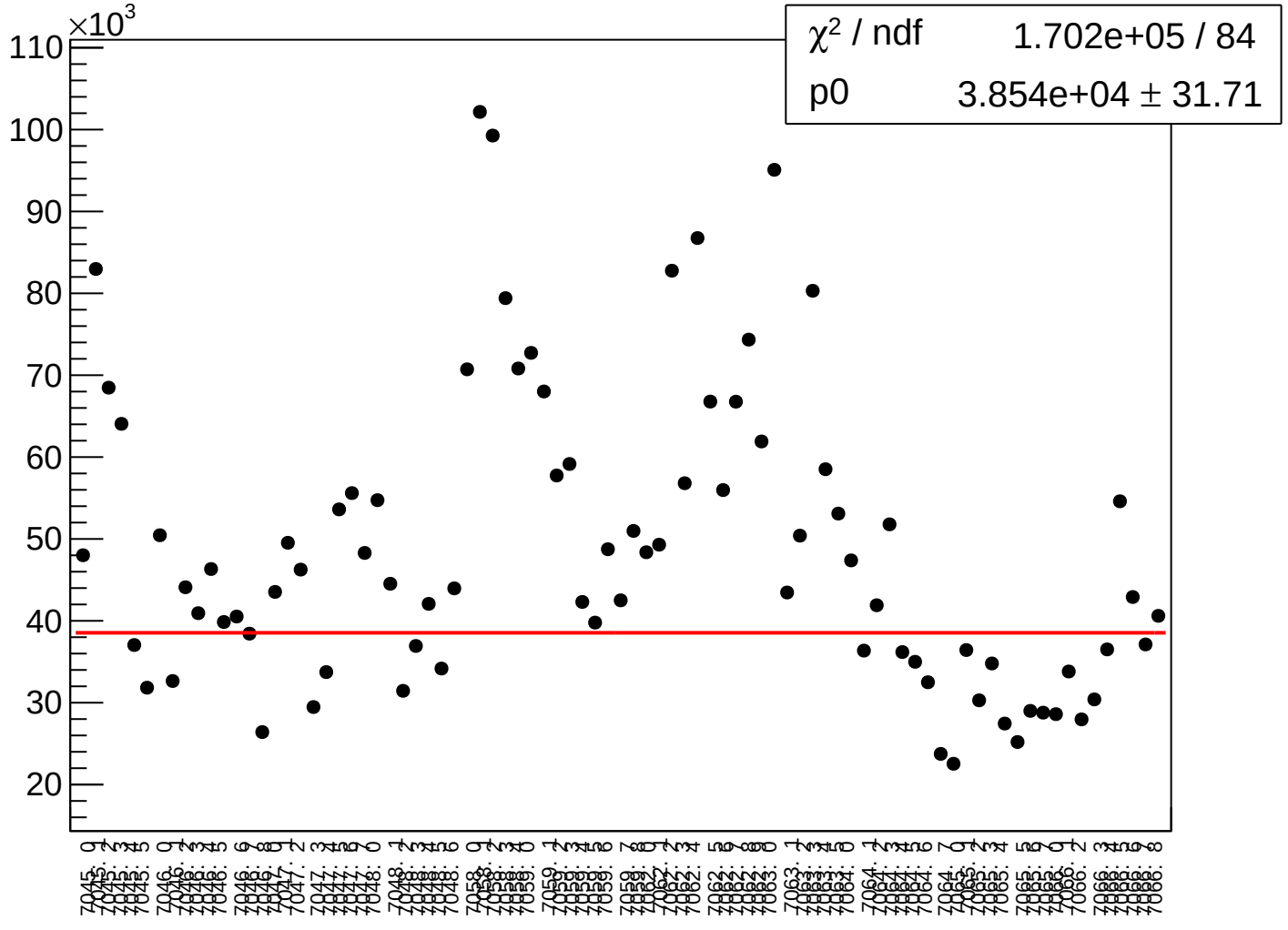

diff_bpm0l02Y_mean vs run
χ² / ndf 77.13 / 84
p0 7.092 ± 2.748
pull
Entries 85
Mean 6.173
Std Dev 0

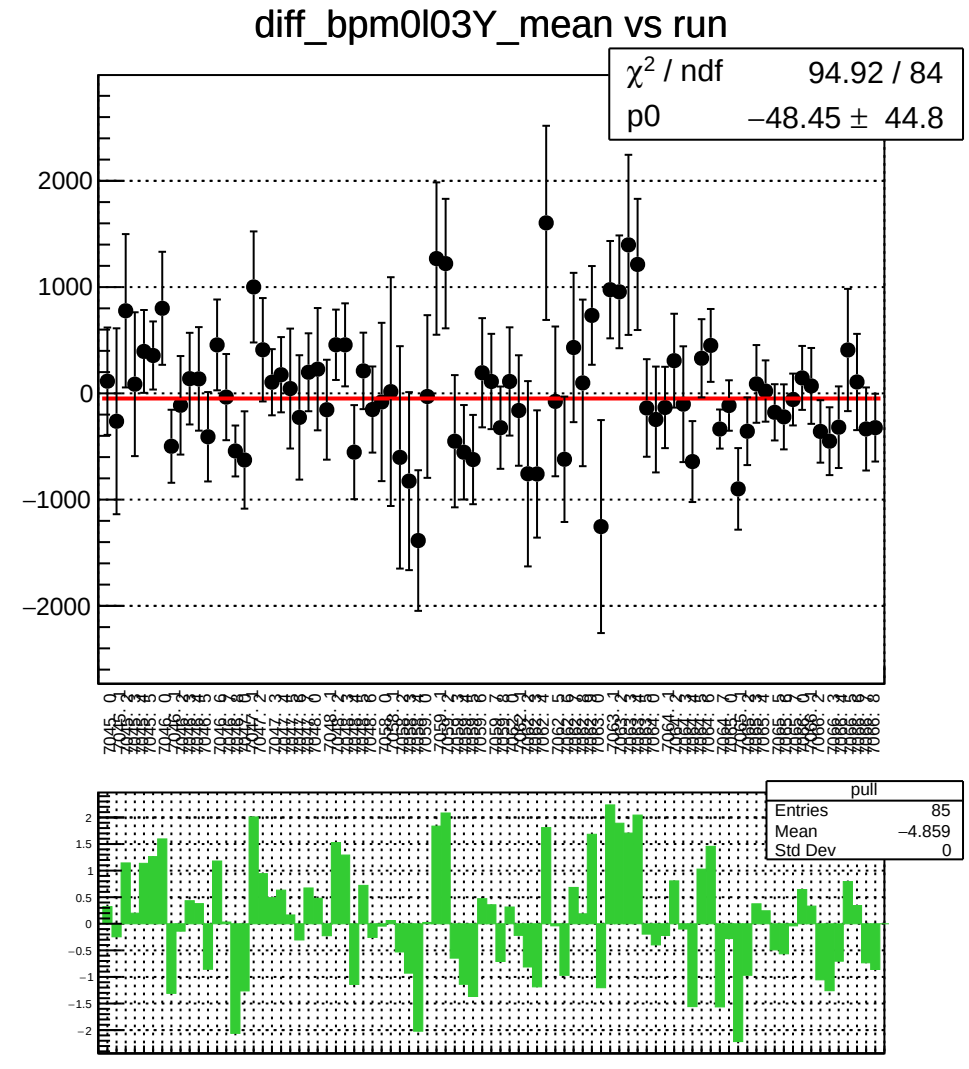

pull1D
Entries 85
Mean −0.05591
Std Dev 0.951

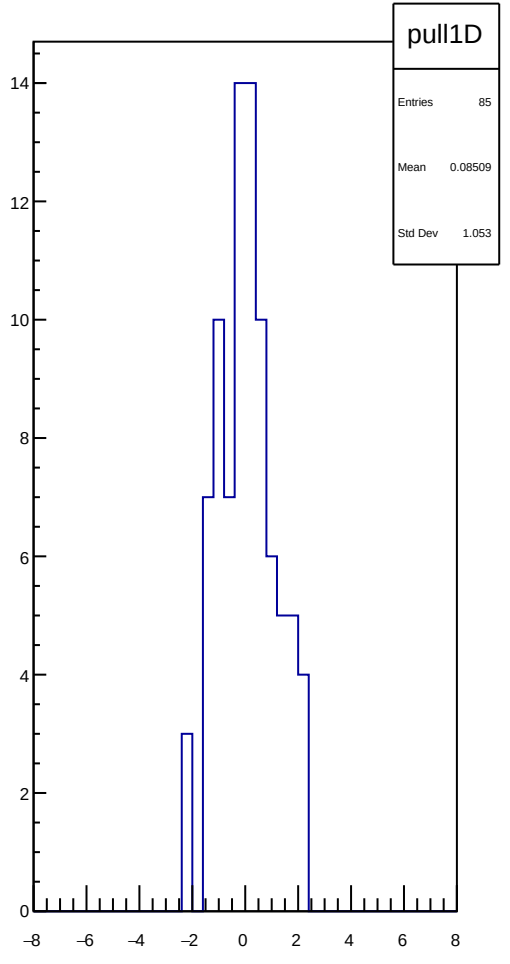

diff_bpm0l02Y_rms vs run
χ² / ndf 4.177e+05 / 84
p0 2155 ± 1.943
16000
14000
12000
10000
8000
6000
4000
2000

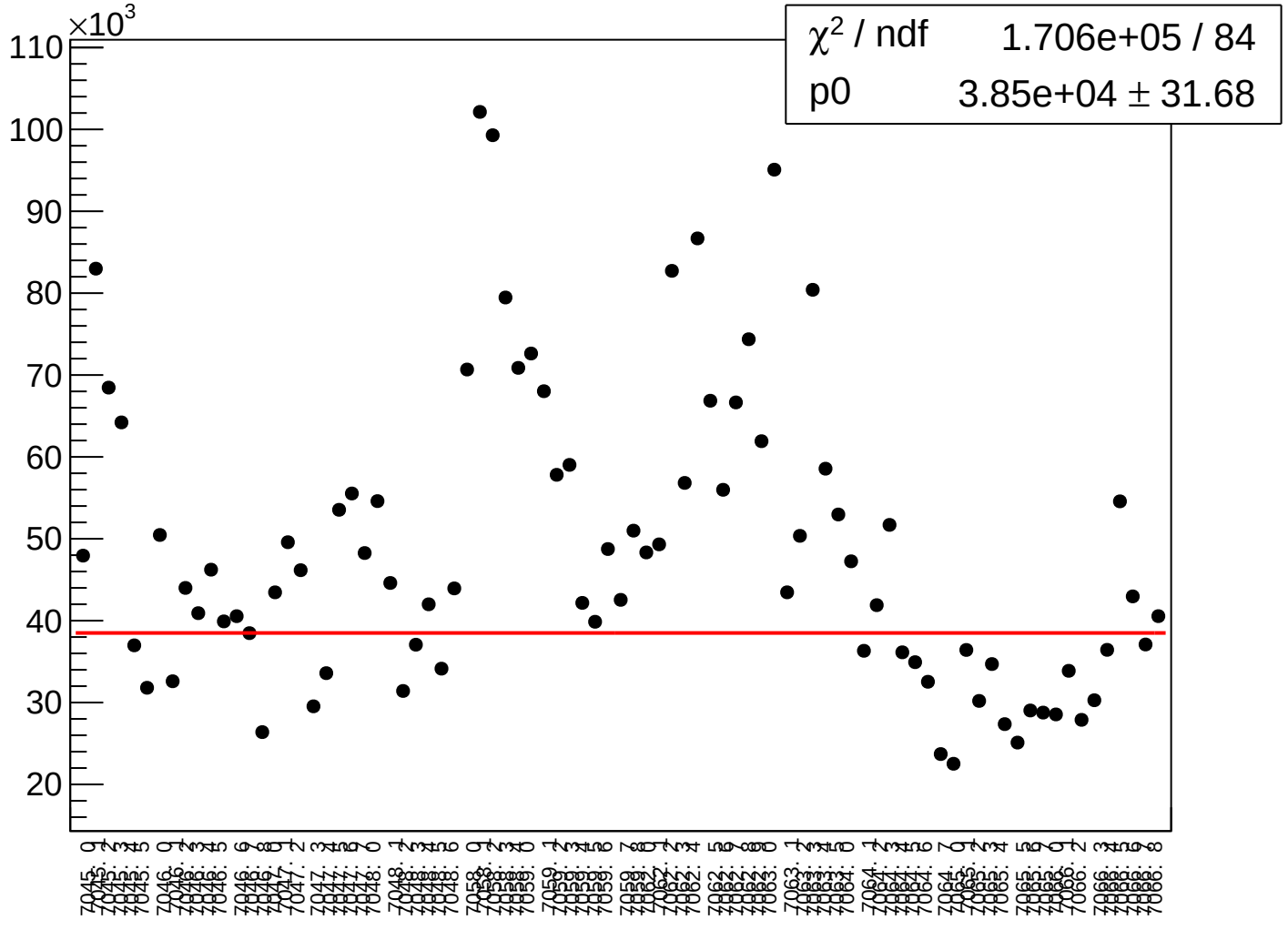

diff_bpm0l03X_mean vs run
χ^2 / ndf 93.91 / 84
p0 −33.63 ± 44.85
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −1.538
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

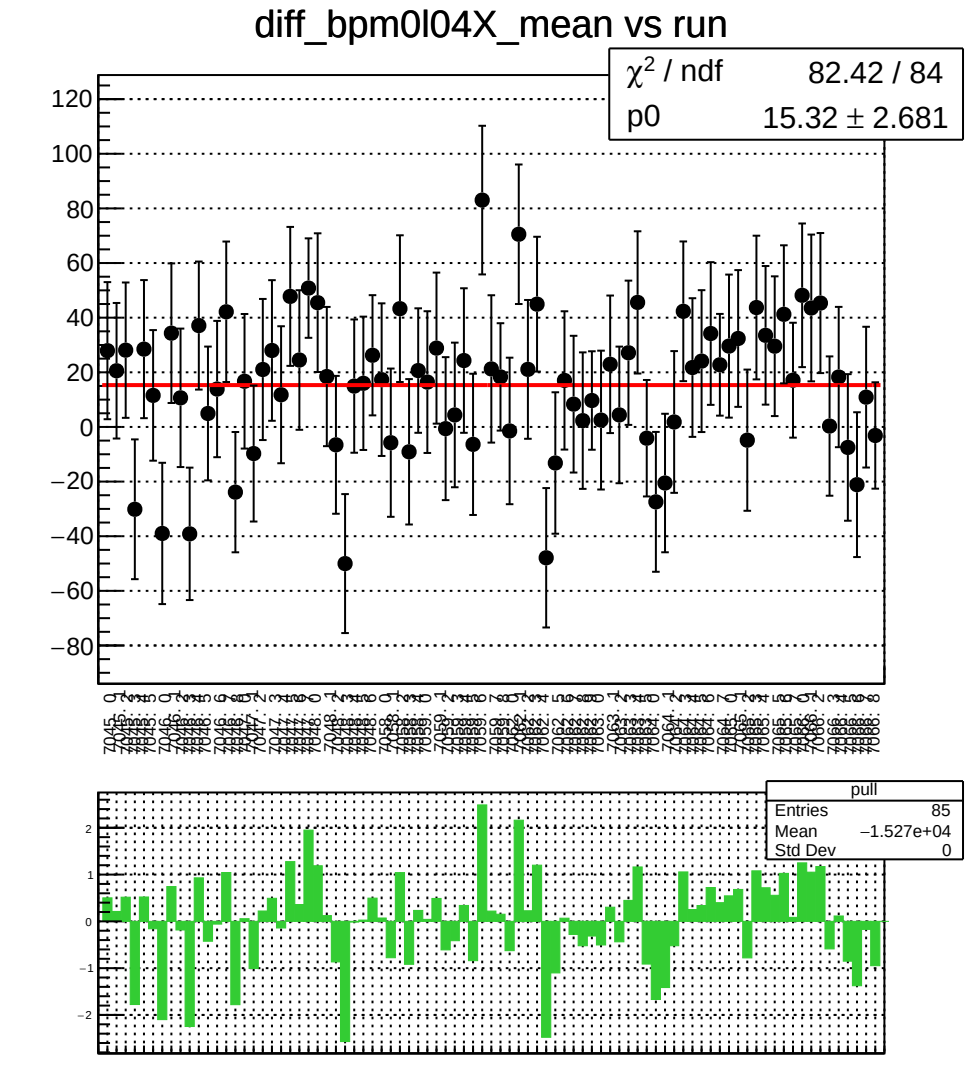

pull1D
Entries 85
Mean 0.0864
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

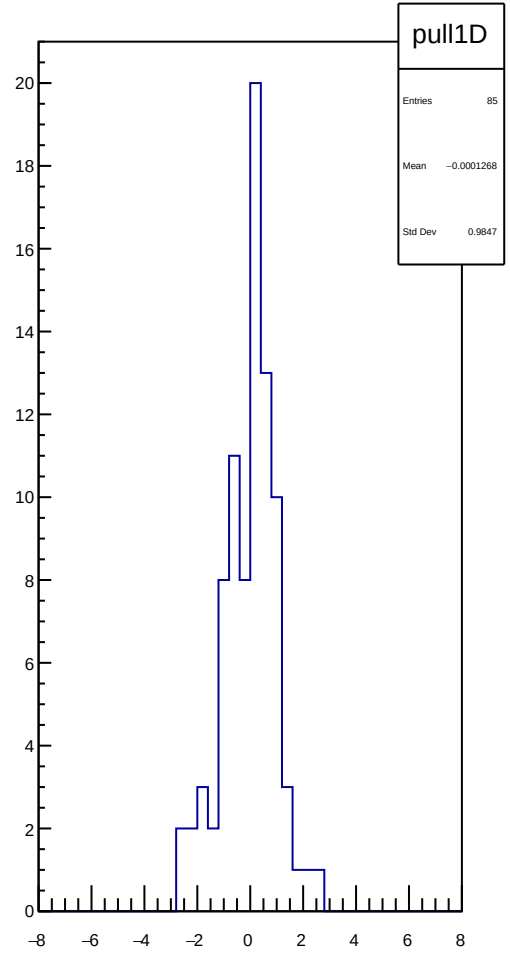

diff_bpm0l03X_rms vs run
×10^3
110
100
90
80
70
60
50
40
30
20
χ² / ndf 1.702e+05 / 84
p0 3.854e+04 ± 31.71

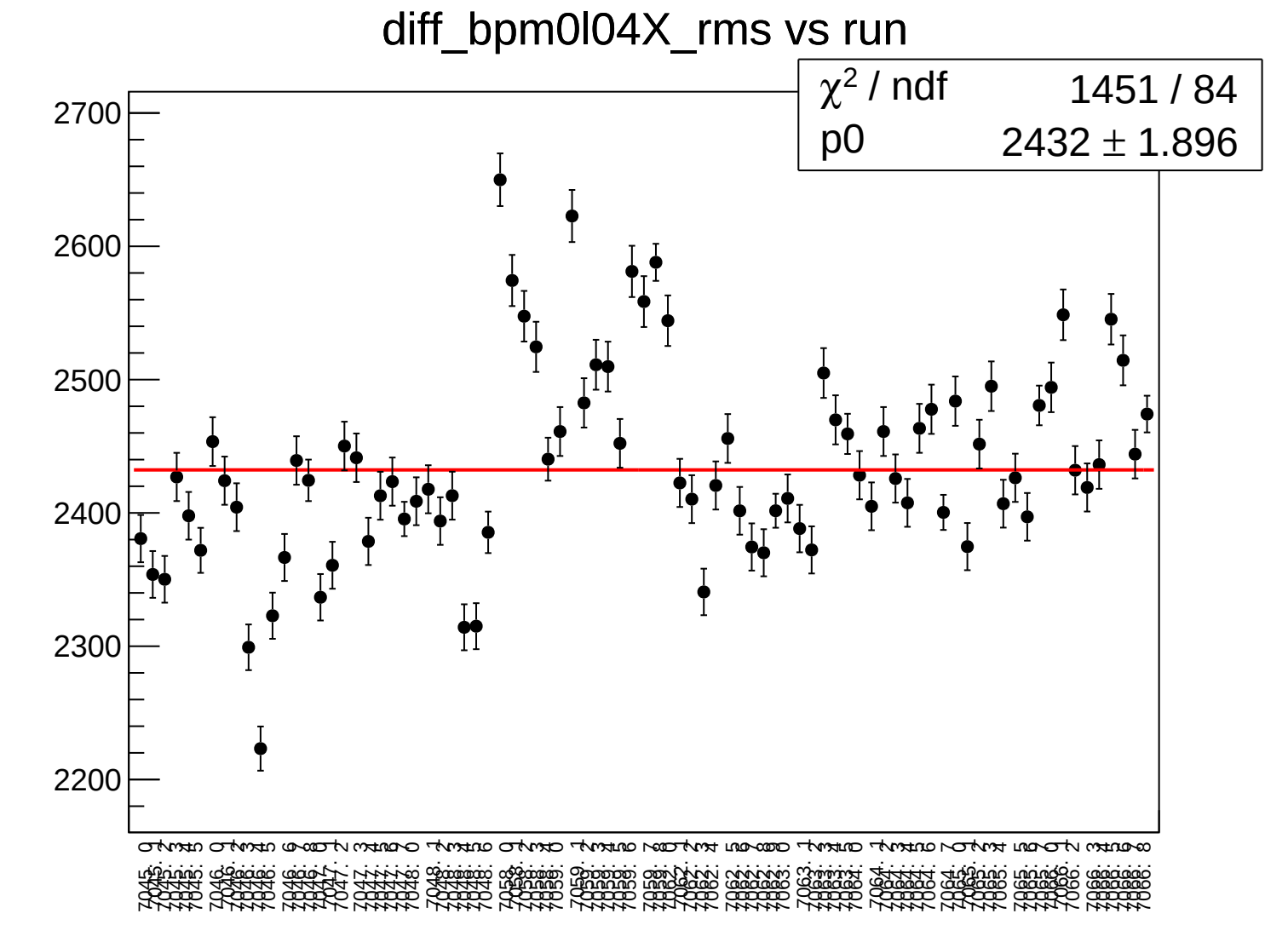

diff_bpm0l03Y_mean vs run
χ² / ndf 94.92 / 84
p0 −48.45 ± 44.8
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −4.859
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

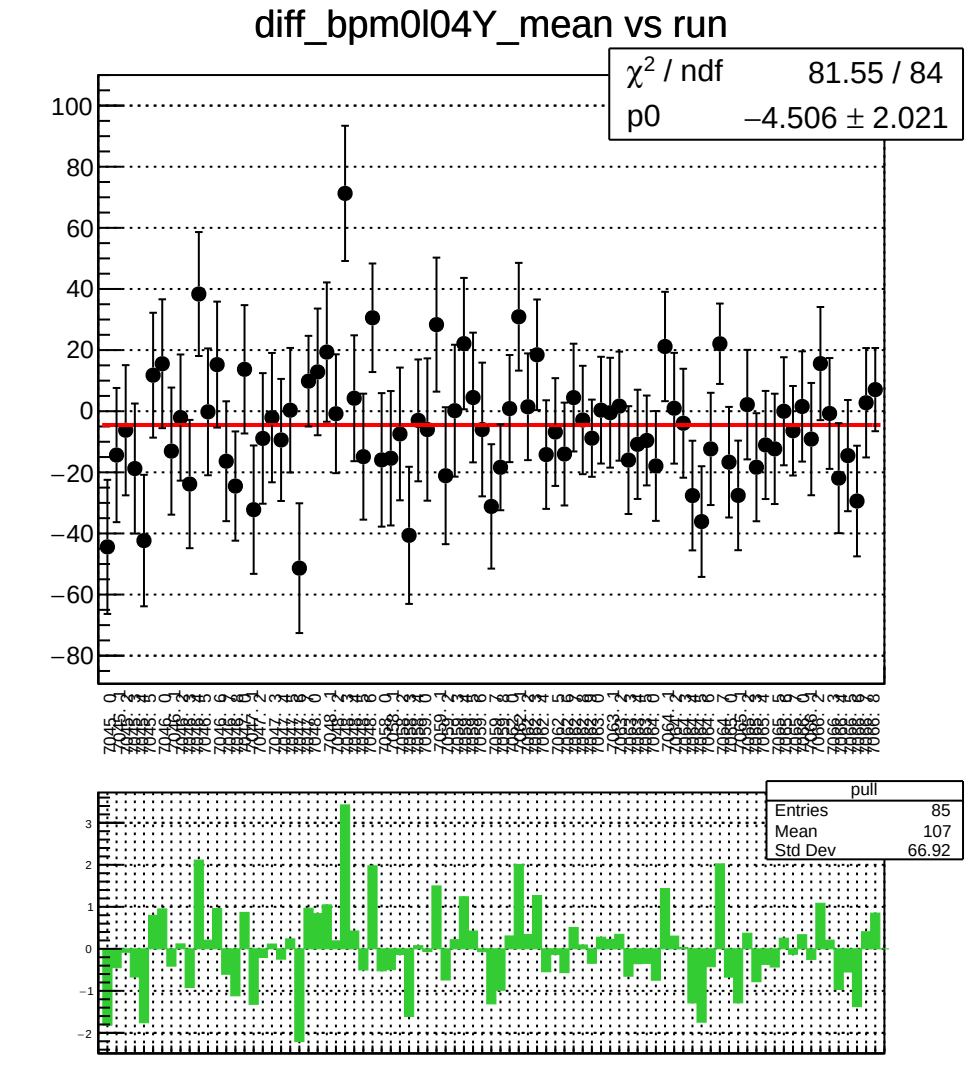

pull1D
Entries 85
Mean 0.08509
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

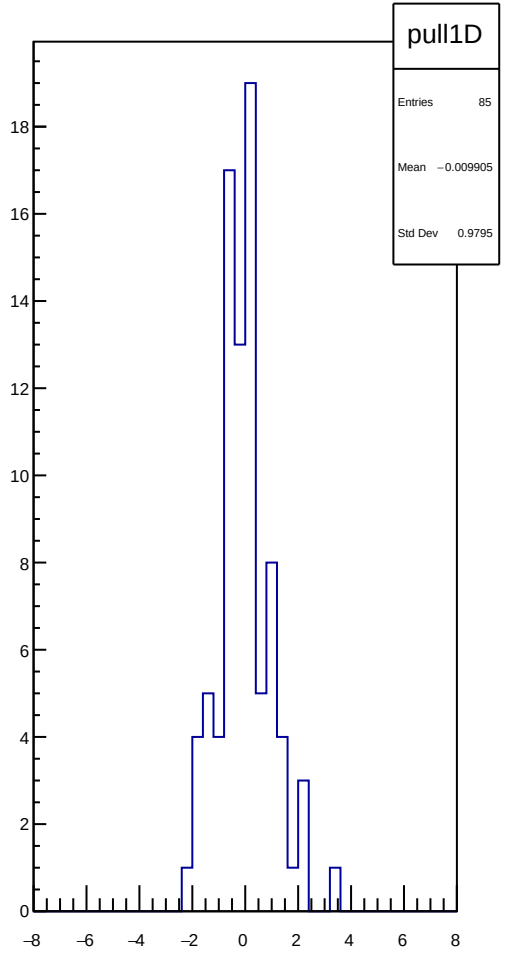

diff_bpm0l03Y_rms vs run
×10^3
110
100
90
80
70
60
50
40
30
20
χ² / ndf 1.706e+05 / 84
p0 3.85e+04 ± 31.68

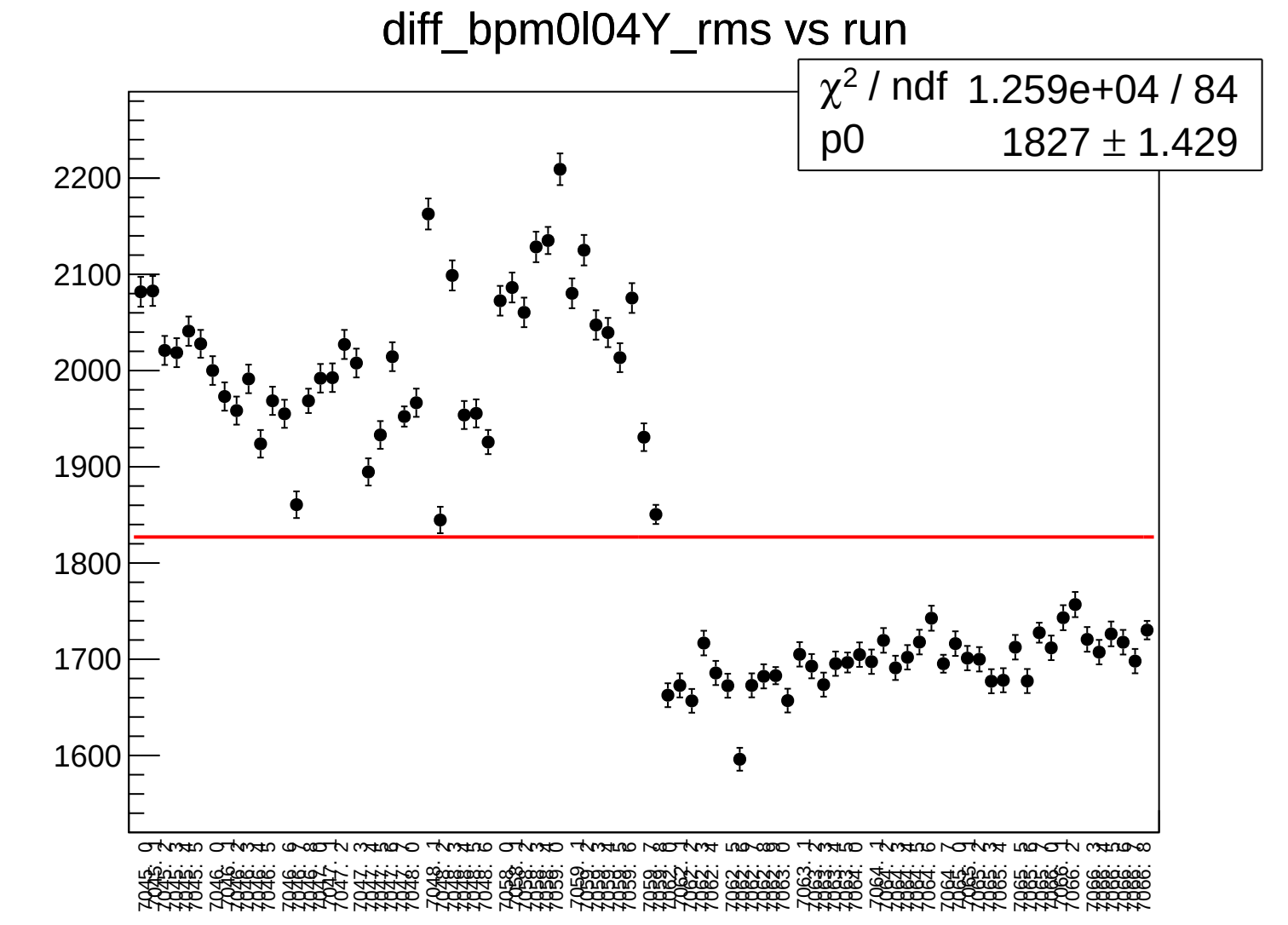

diff_bpm0l04X_mean vs run
χ² / ndf 82.42 / 84
p0 15.32 ± 2.681
pull
Entries 85
Mean −1.527e+04
Std Dev 0

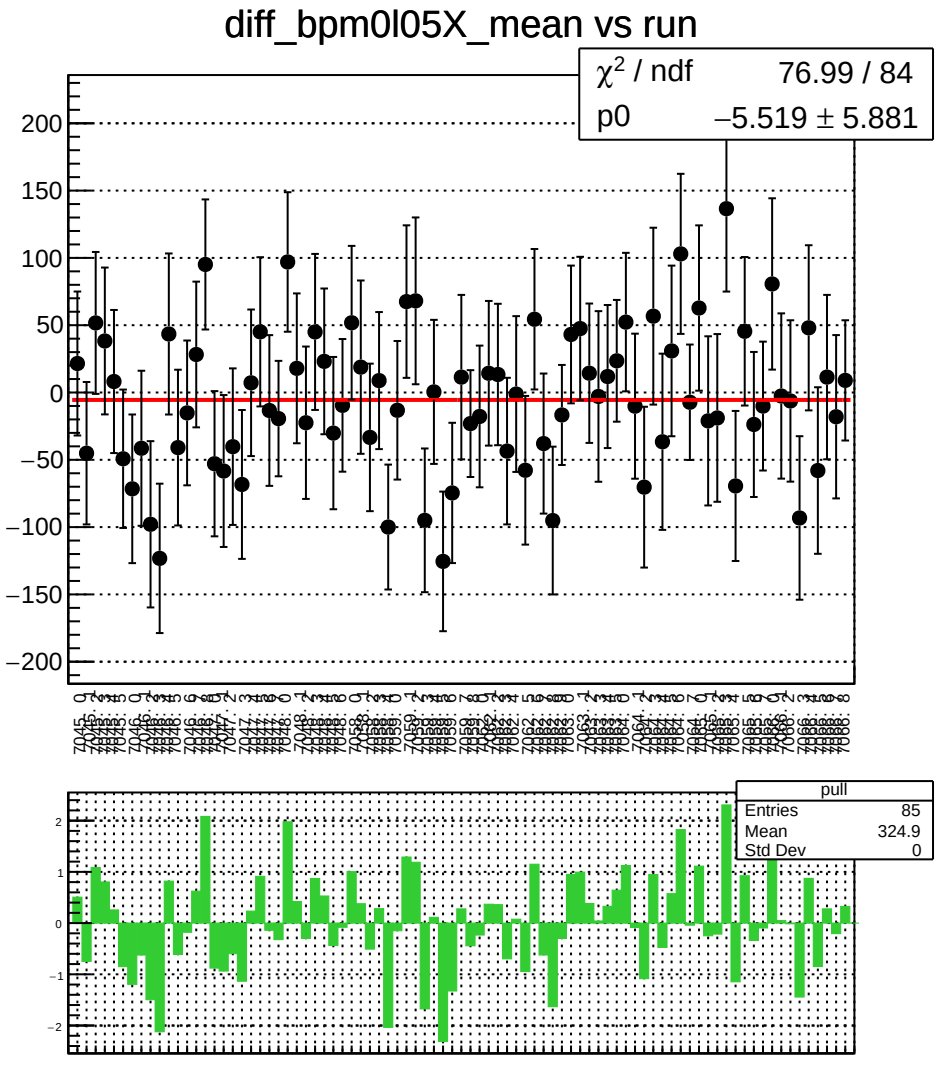

pull1D
Entries 85
Mean −0.0001268
Std Dev 0.9847

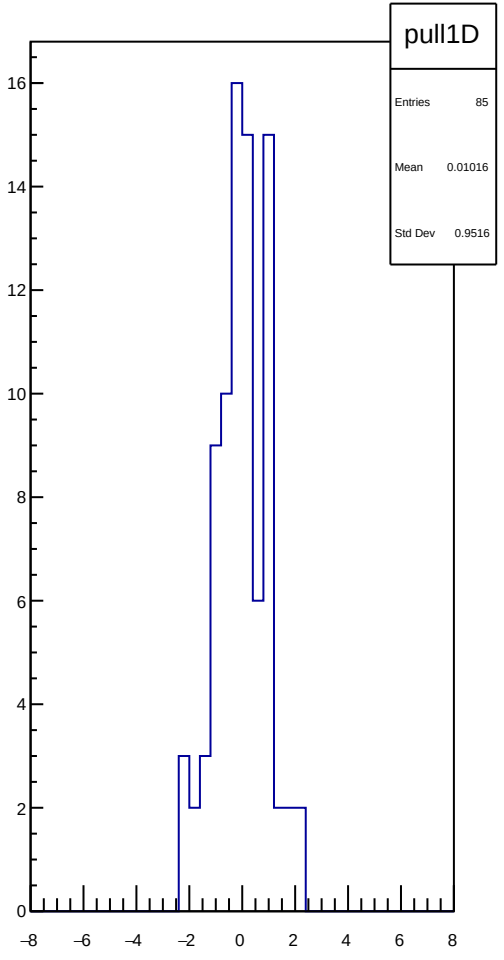

diff_bpm0l04X_rms vs run
χ² / ndf 1451 / 84
p0 2432 ± 1.896
2700
2600
2500
2400
2300
2200

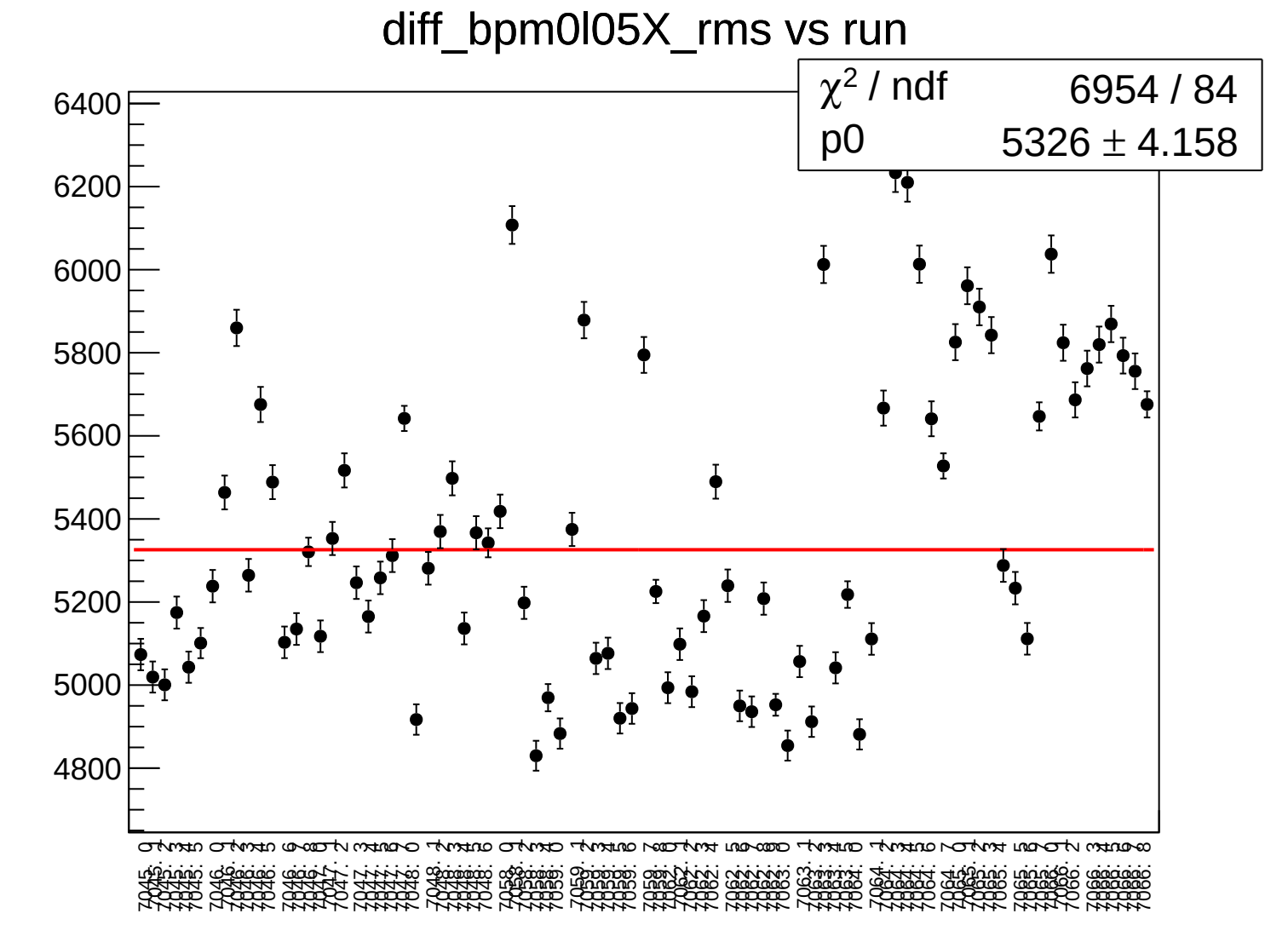

diff_bpm0l04Y_mean vs run
χ^2 / ndf 81.55 / 84
p0 −4.506 ± 2.021
pull
Entries 85
Mean 107
Std Dev 66.92

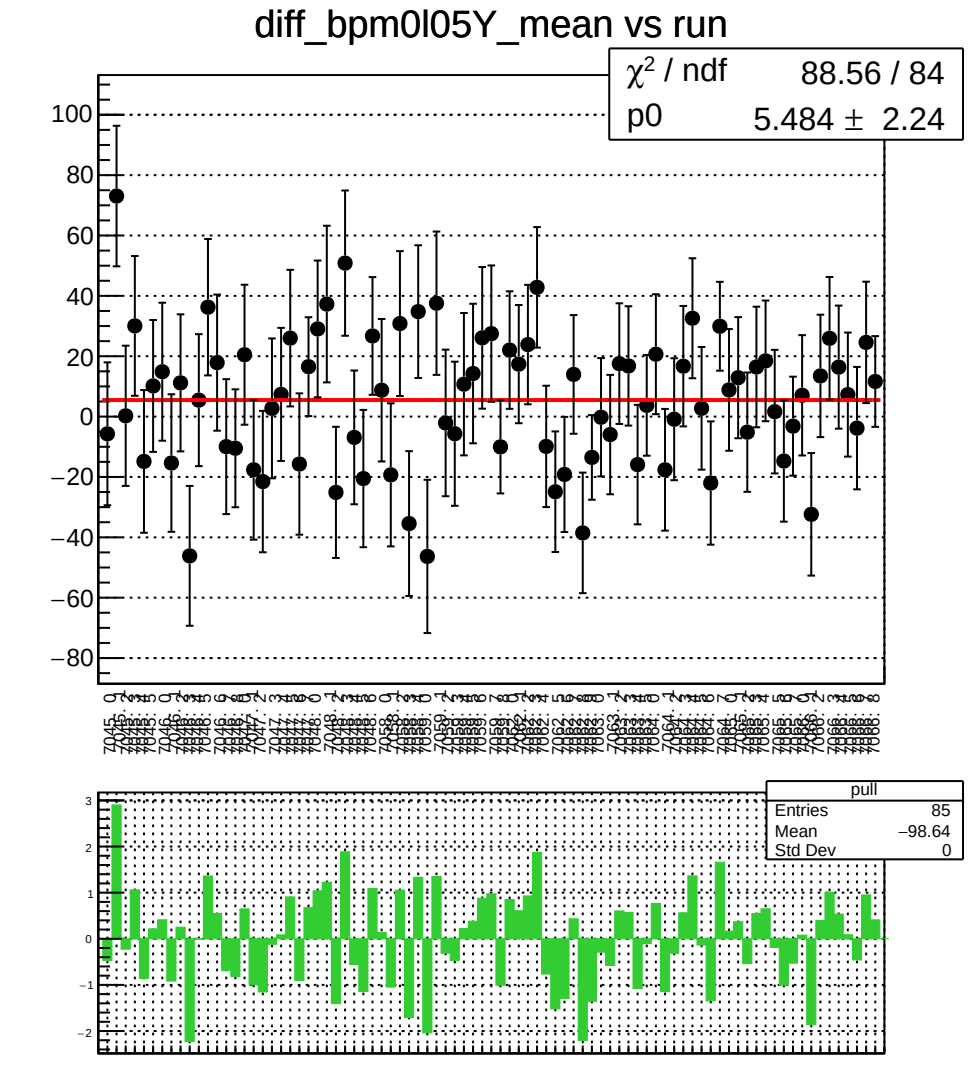

pull1D
Entries 85
Mean −0.009905
Std Dev 0.9795

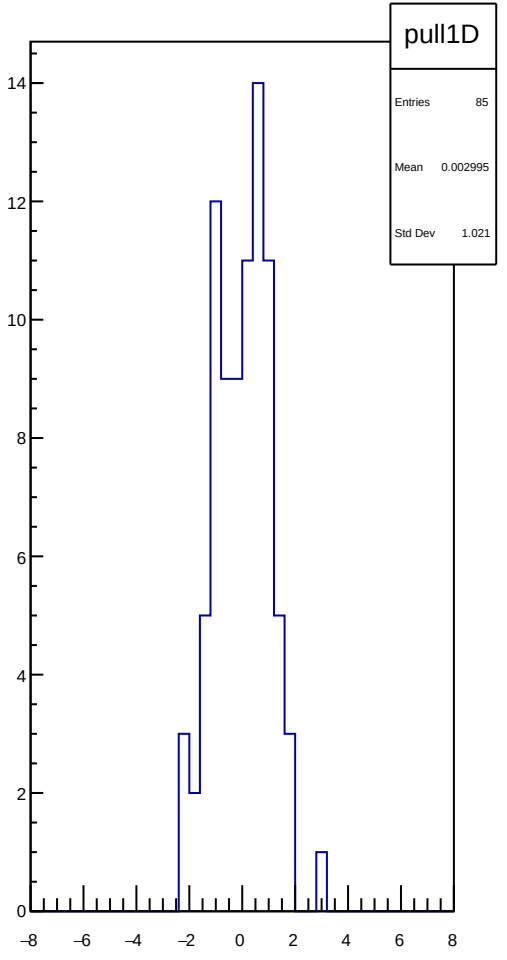

diff_bpm0l04Y_rms vs run
χ² / ndf 1.259e+04 / 84
p0 1827 ± 1.429
2200
2100
2000
1900
1800
1700
1600

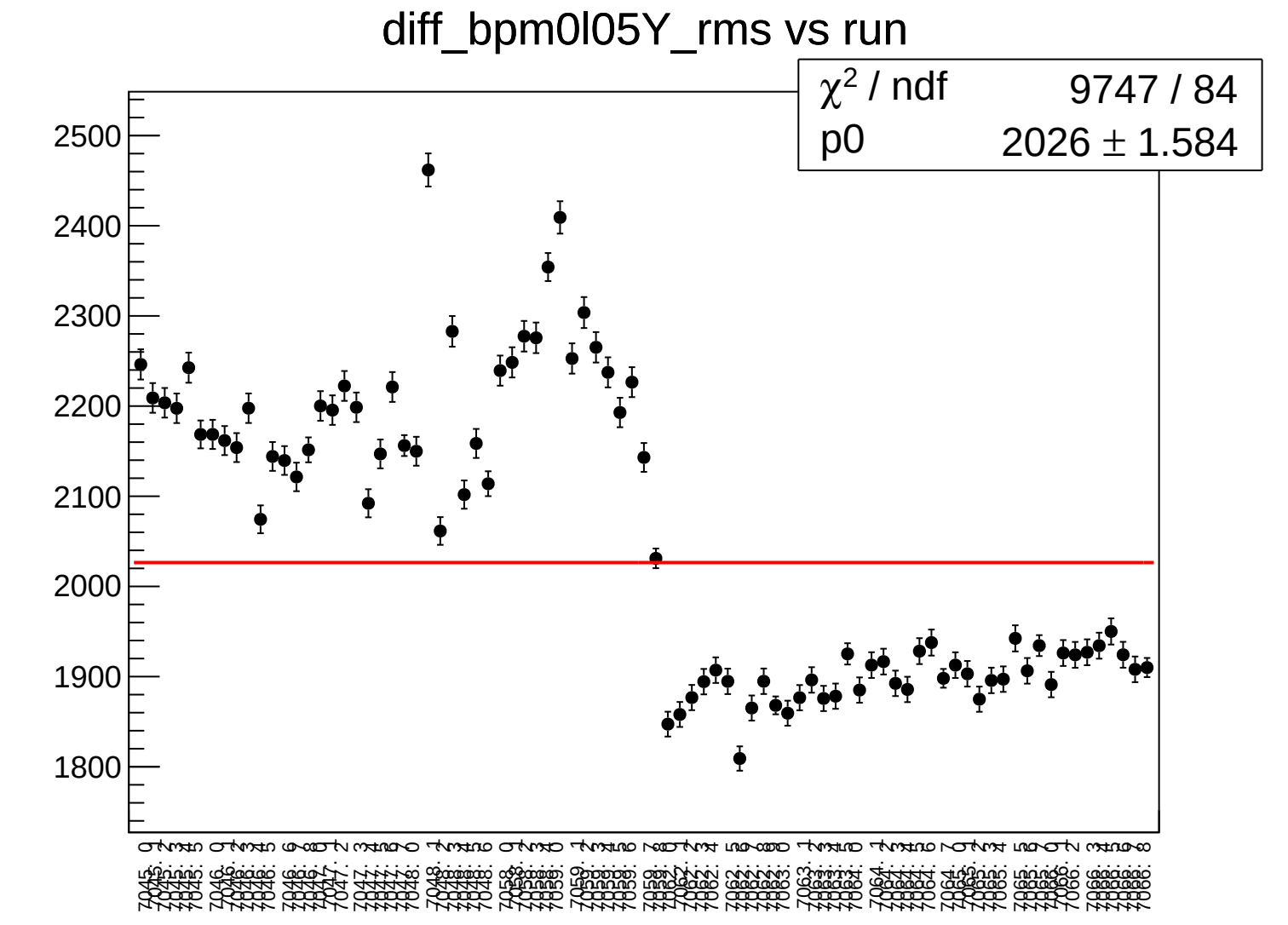

diff_bpm0l05X_mean vs run
χ^2 / ndf 76.99 / 84
p0 −5.519 ± 5.881
pull
Entries 85
Mean 324.9
Std Dev 0

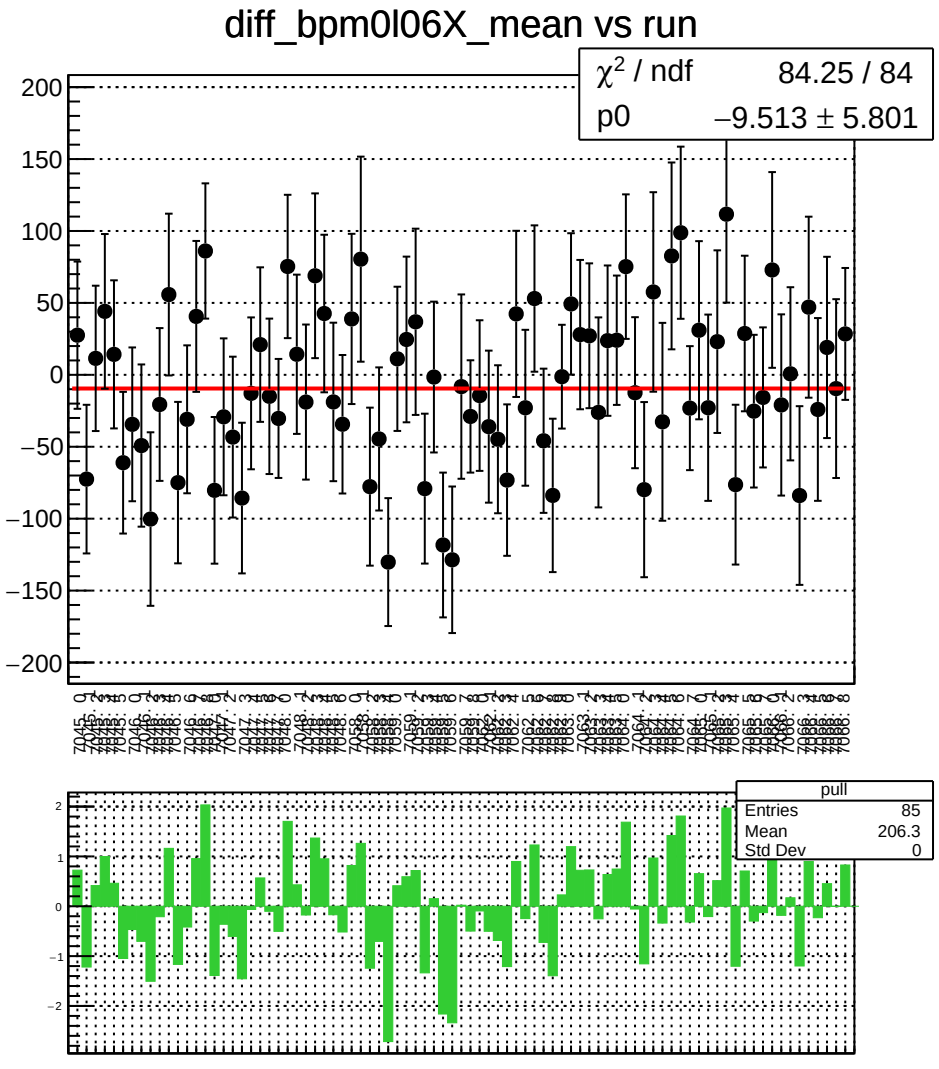

pull1D
Entries 85
Mean 0.01016
Std Dev 0.9516

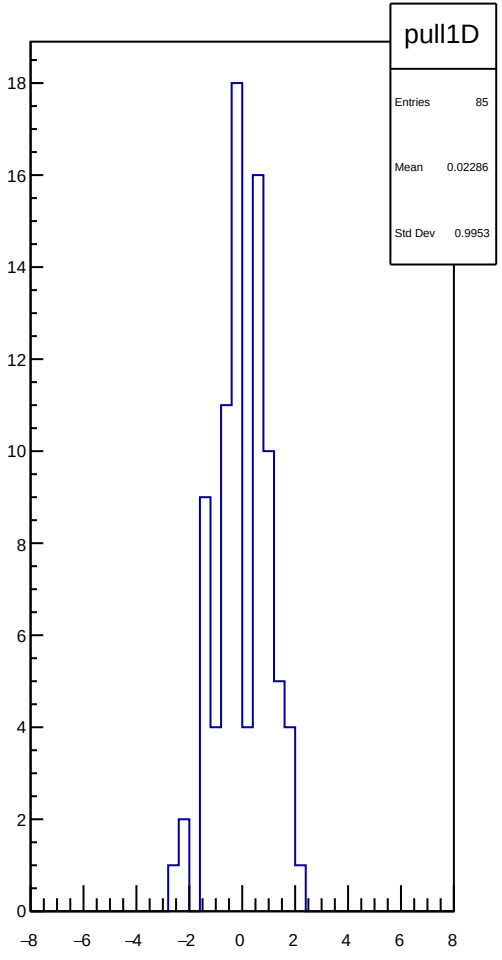

diff_bpm0l05X_rms vs run
χ² / ndf 6954 / 84
p0 5326 ± 4.158
6400
6200
6000
5800
5600
5400
5200
5000
4800

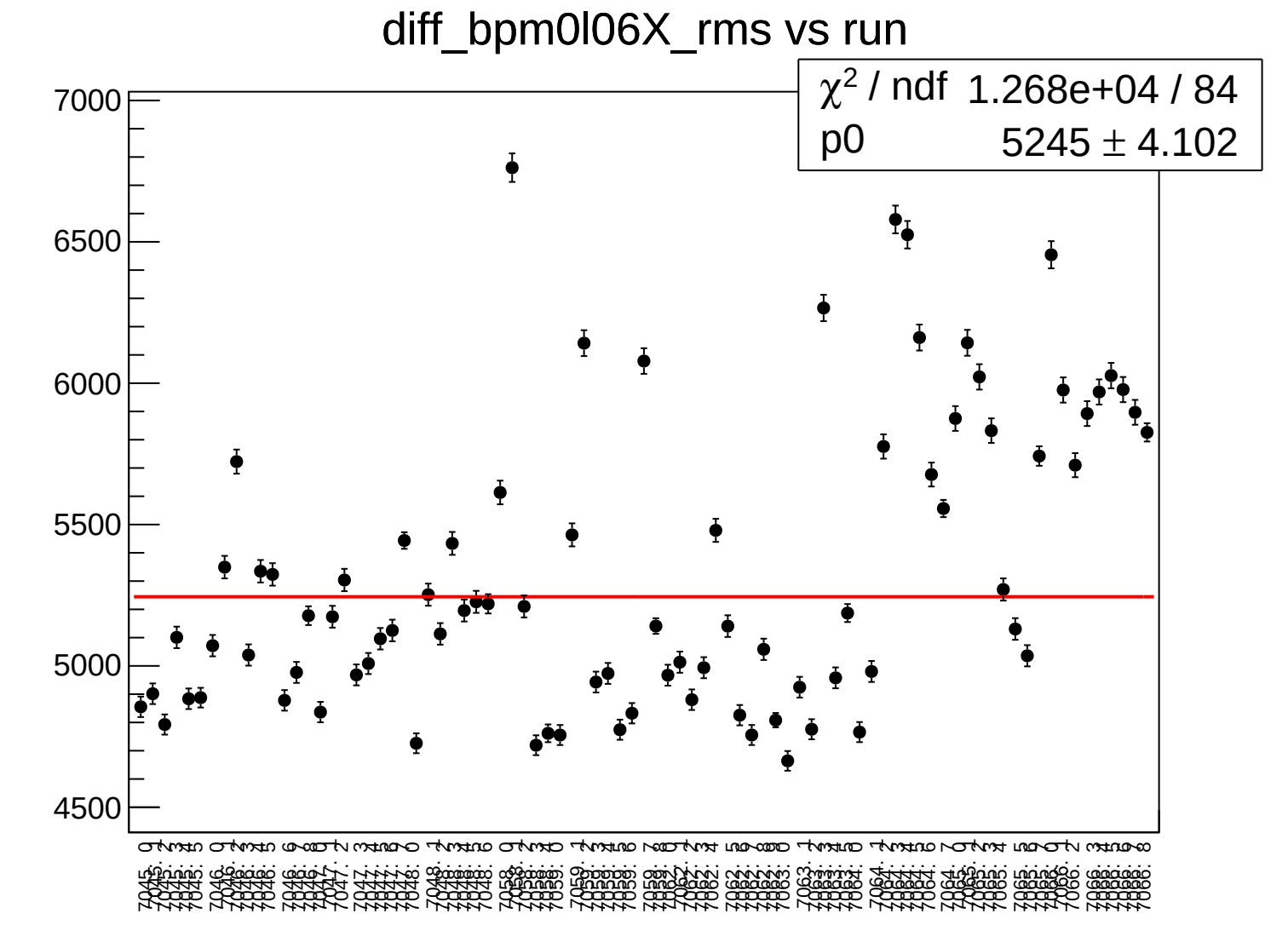

diff_bpm0l05Y_mean vs run
χ² / ndf 88.56 / 84
p0 5.484 ± 2.24
pull
Entries 85
Mean −98.64
Std Dev 0

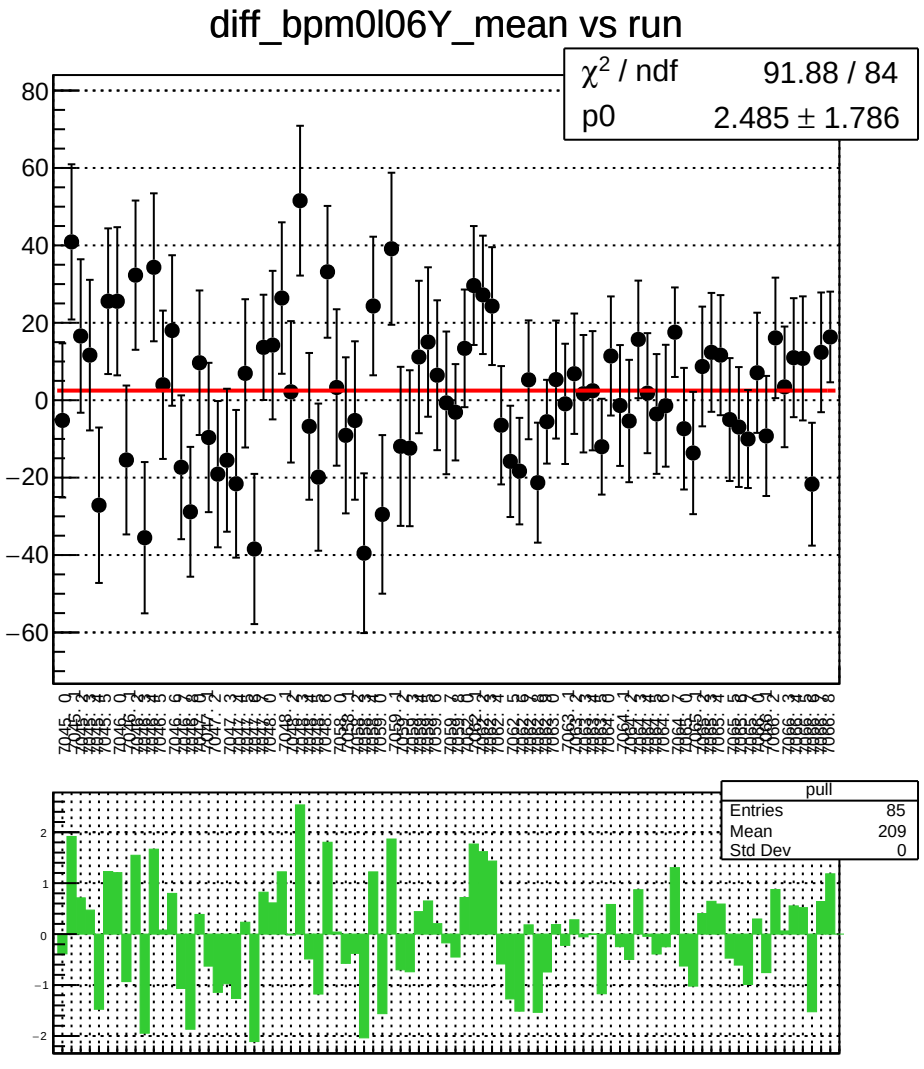

pull1D
Entries 85
Mean 0.002995
Std Dev 1.021

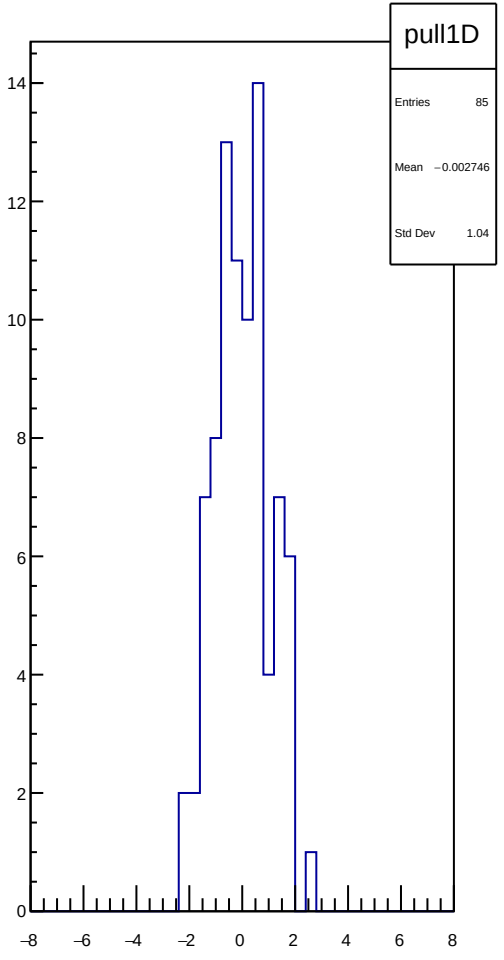

diff_bpm0l05Y_rms vs run
χ² / ndf 9747 / 84
p0 2026 ± 1.584
2500
2400
2300
2200
2100
2000
1900
1800

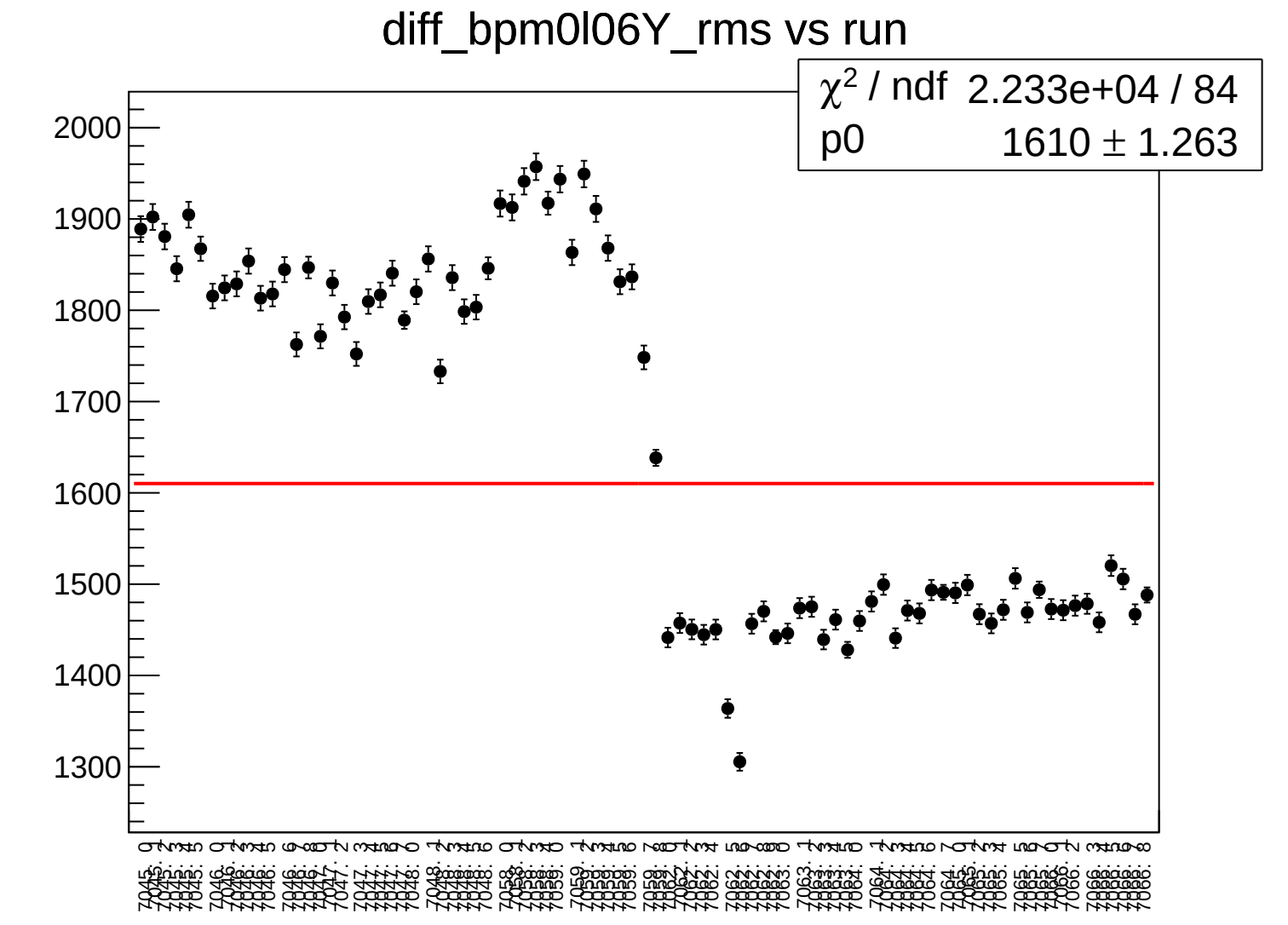

diff_bpm0l06X_mean vs run
χ² / ndf 84.25 / 84
p0 −9.513 ± 5.801
pull
Entries 85
Mean 206.3
Std Dev 0

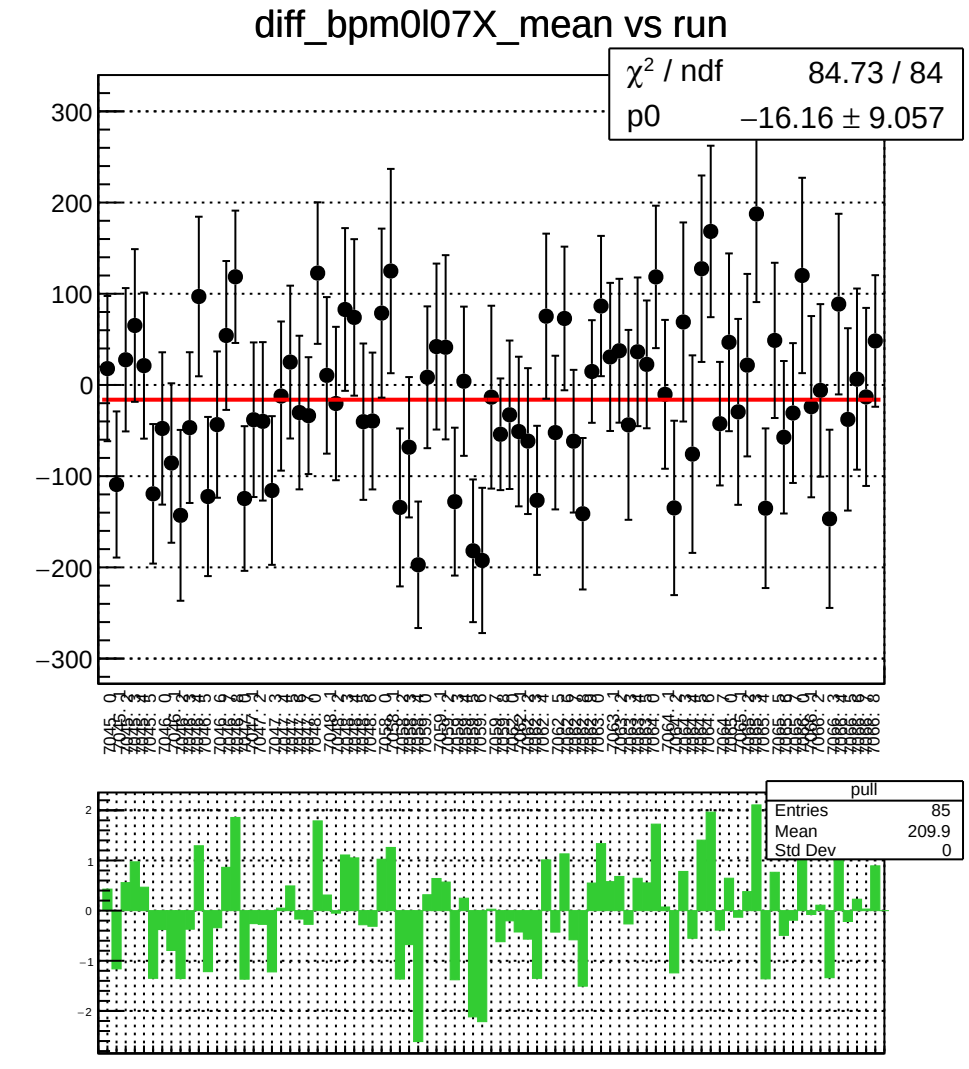

pull1D
Entries 85
Mean 0.02286
Std Dev 0.9953

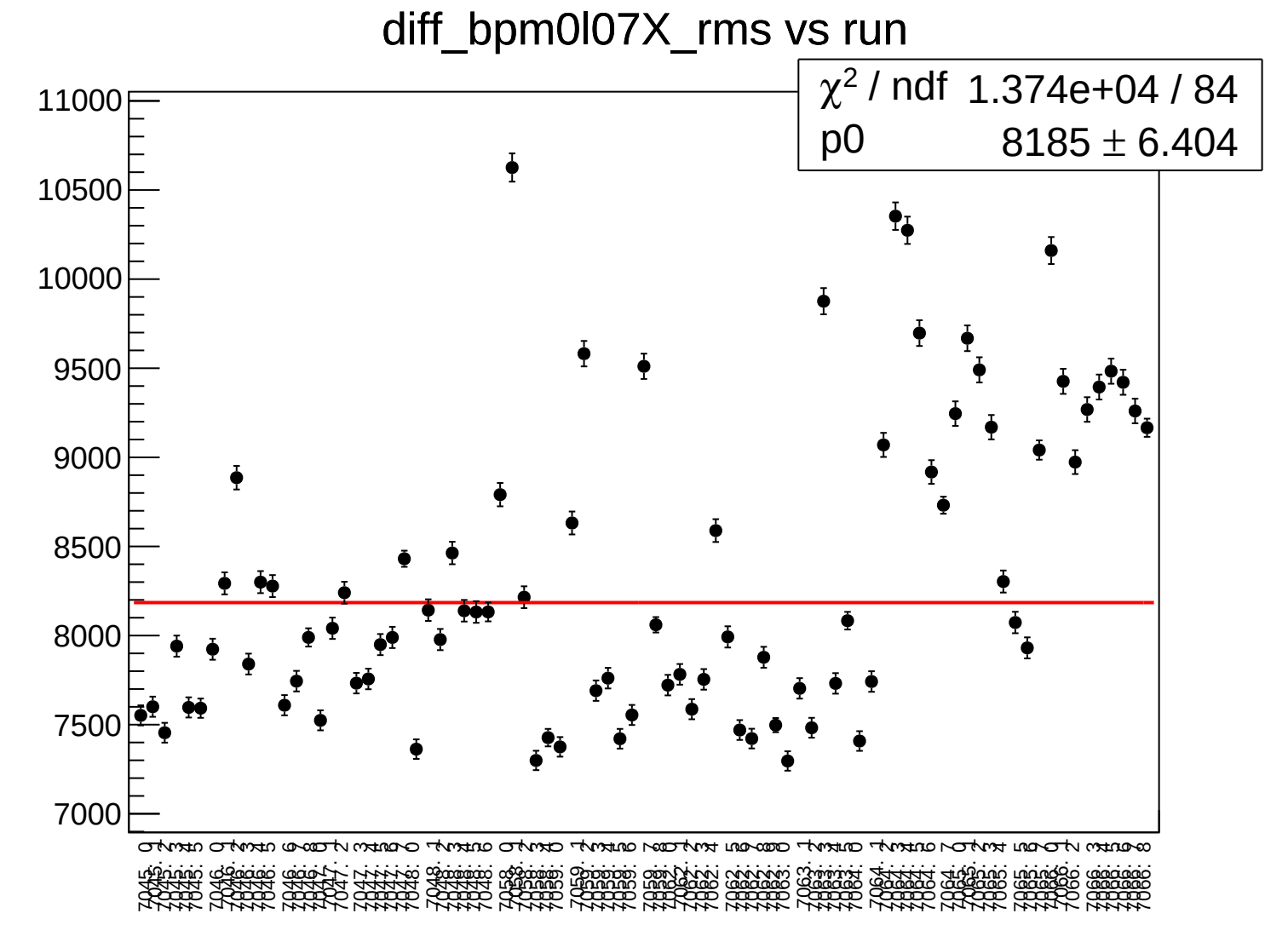

diff_bpm0l06X_rms vs run
χ^2 / ndf 1.268e+04 / 84
p0 5245 ± 4.102
7000
6500
6000
5500
5000
4500

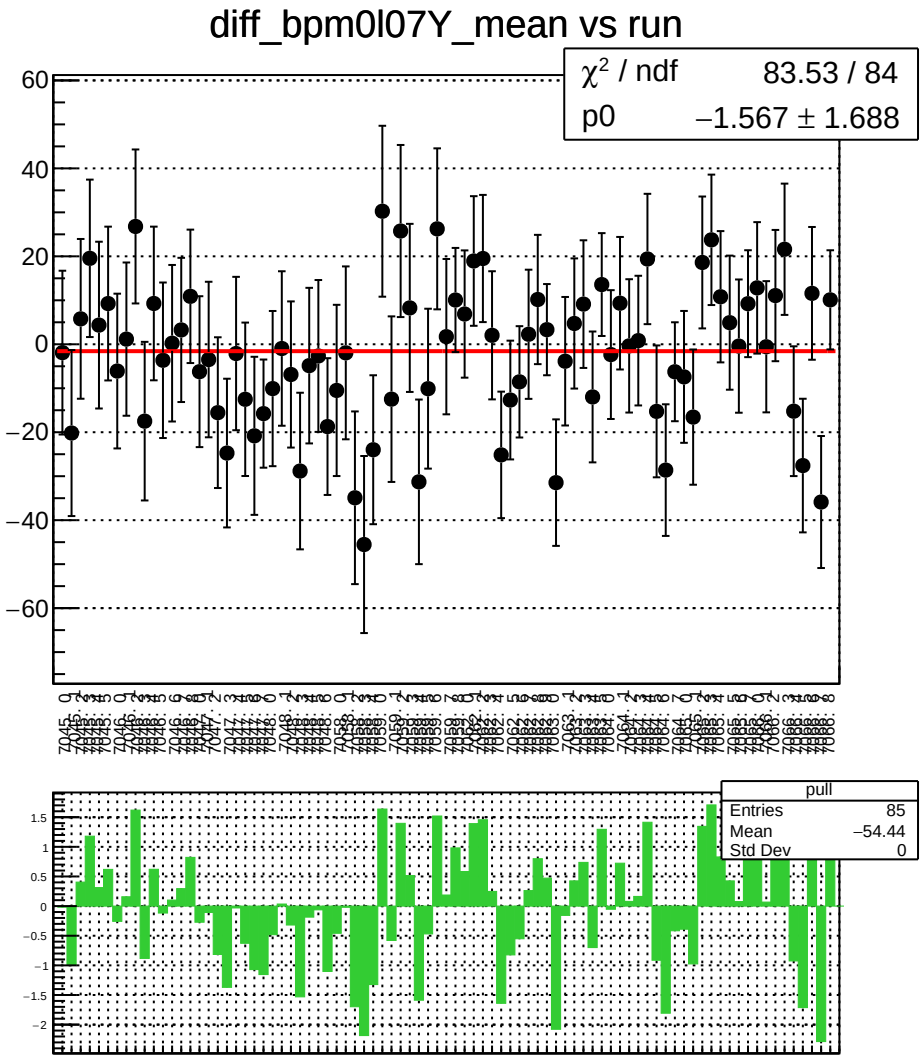

diff_bpm0l06Y_mean vs run
χ² / ndf 91.88 / 84
p0 2.485 ± 1.786
pull
Entries 85
Mean 209
Std Dev 0

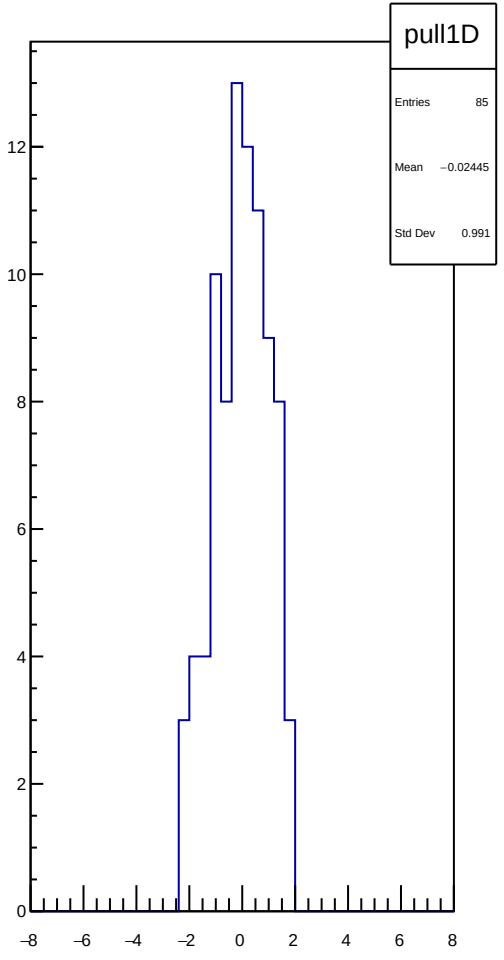

pull1D
Entries 85
Mean −0.002746
Std Dev 1.04

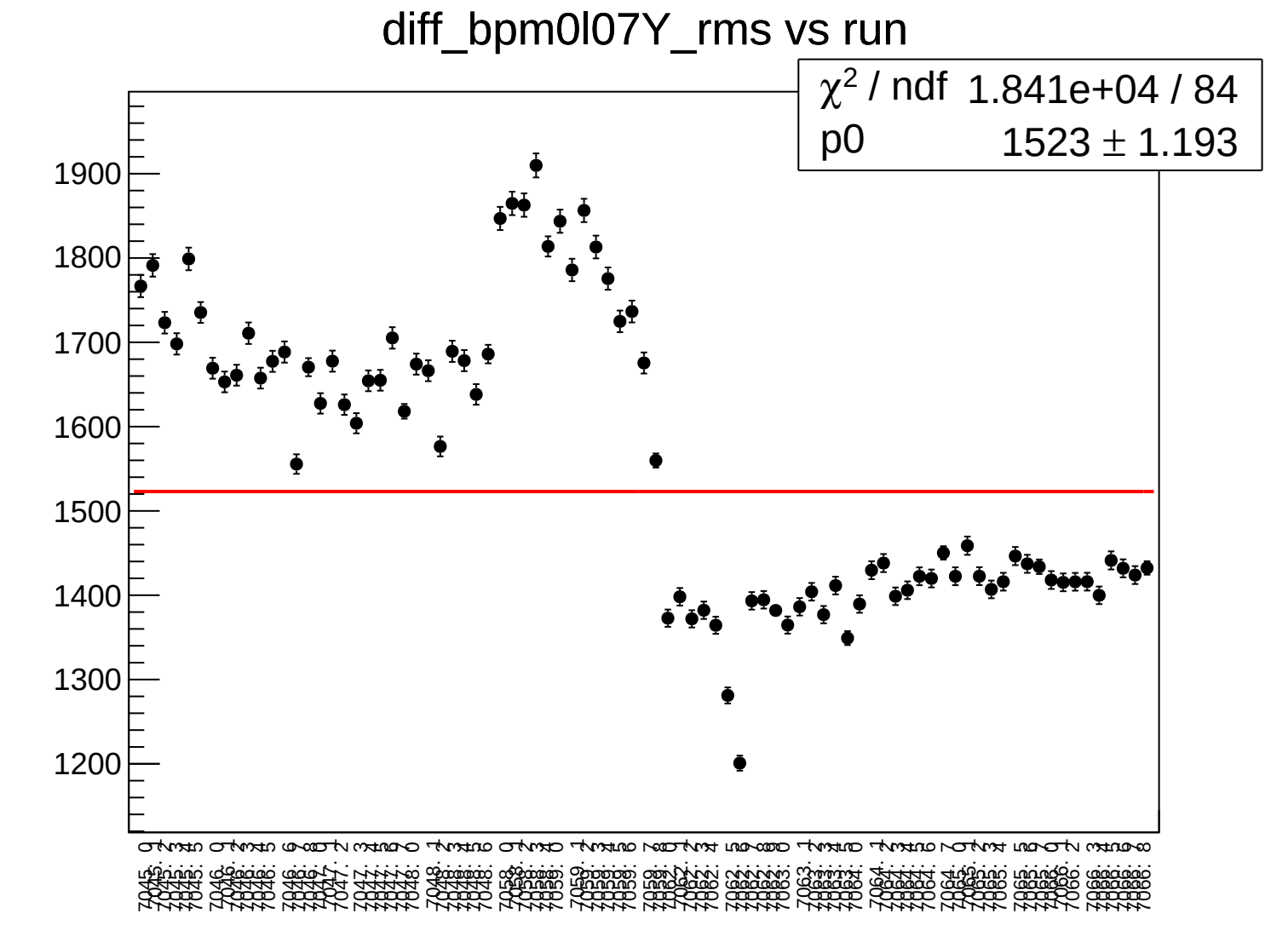

diff_bpm0l06Y_rms vs run
χ^2 / ndf 2.233e+04 / 84
p0 1610 ± 1.263
2000
1900
1800
1700
1600
1500
1400
1300

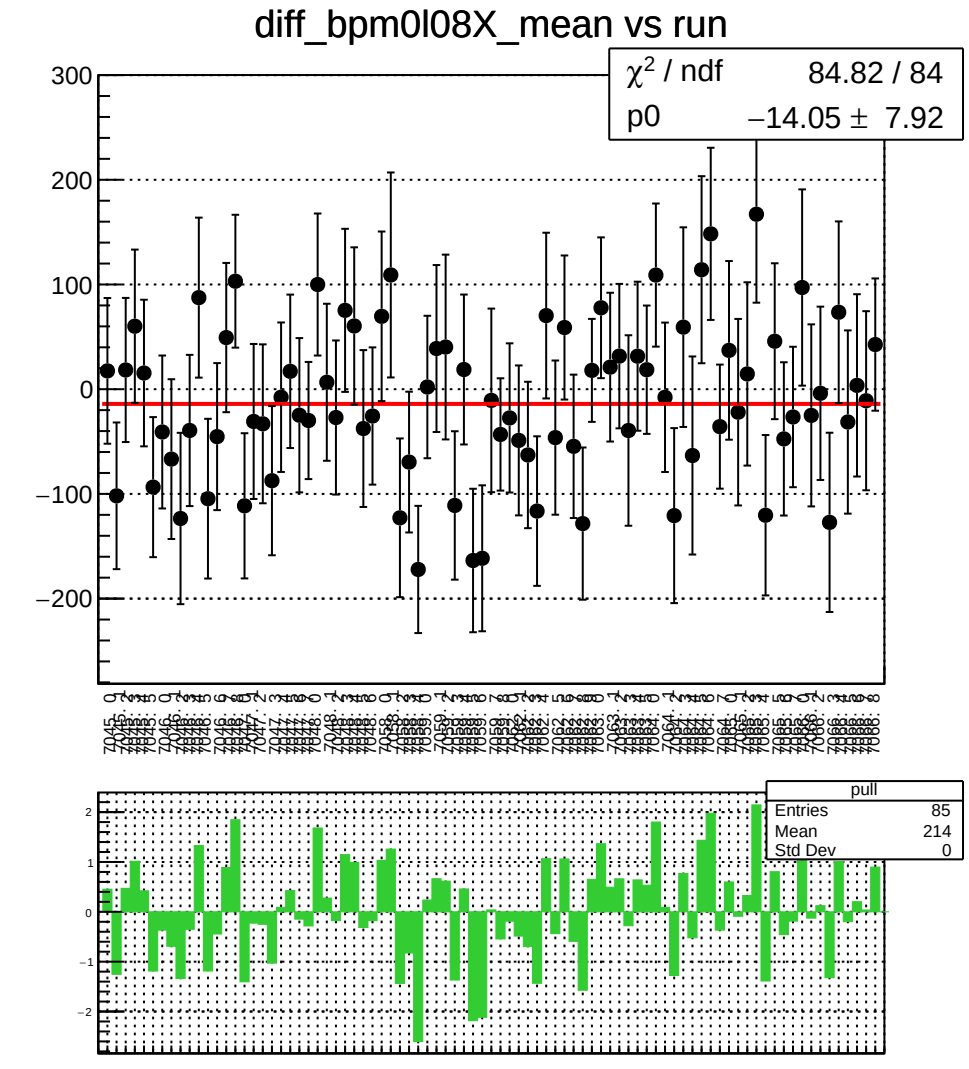

diff_bpm0l07X_mean vs run
χ² / ndf 84.73 / 84
p0 −16.16 ± 9.057
pull
Entries 85
Mean 209.9
Std Dev 0
pull1D
Entries 85
Mean 0.0209
Std Dev 0.9982

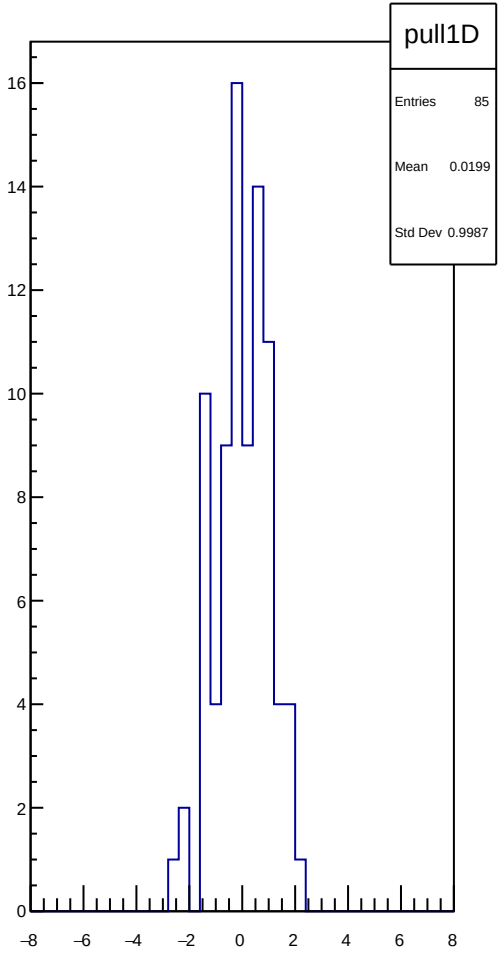

diff_bpm0l07X_rms vs run
χ² / ndf 1.374e+04 / 84
p0 8185 ± 6.404
11000
10500
10000
9500
9000
8500
8000
7500
7000

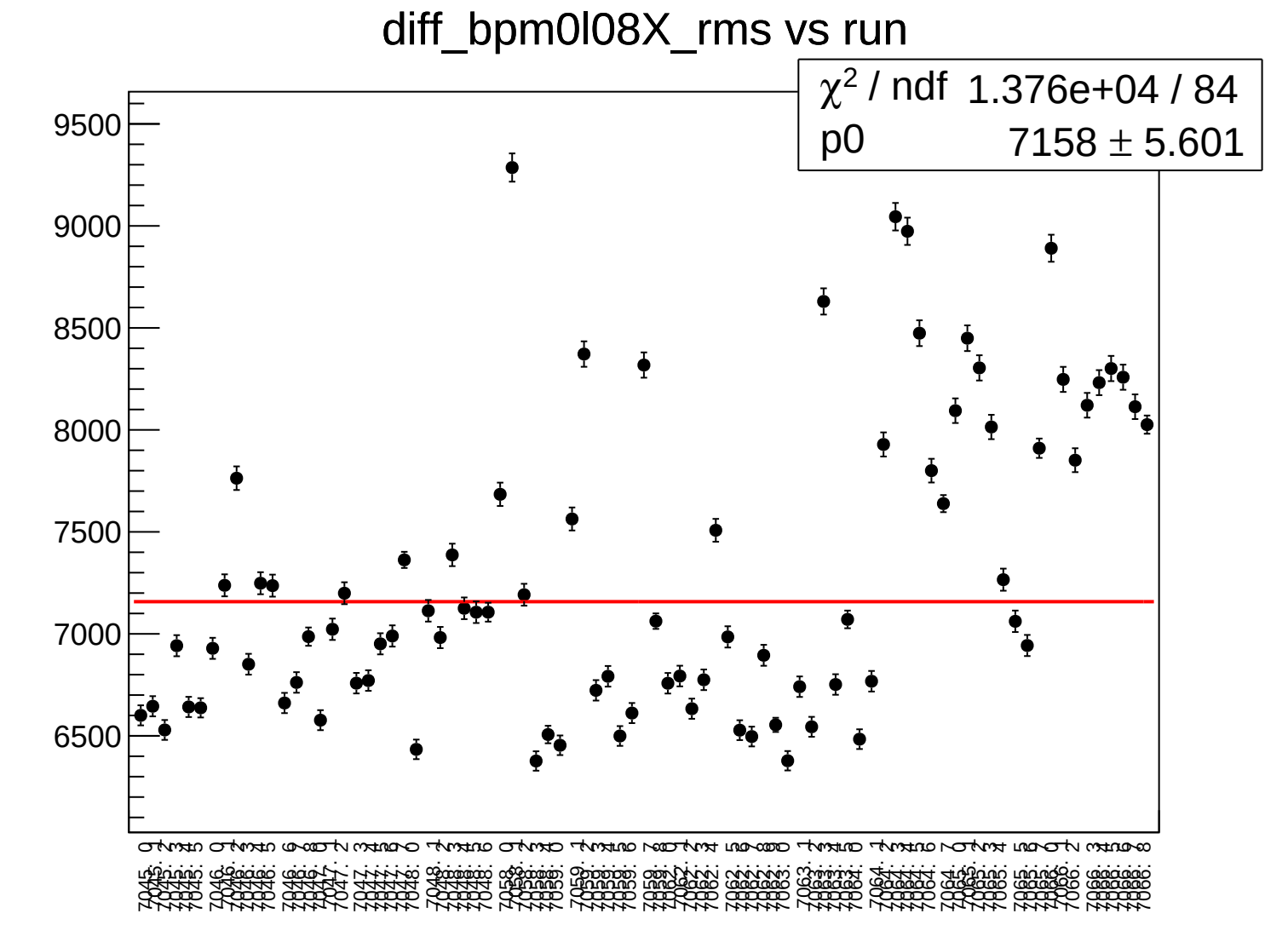

diff_bpm0l07Y_mean vs run
χ² / ndf 83.53 / 84
p0 −1.567 ± 1.688
pull
Entries 85
Mean −54.44
Std Dev 0

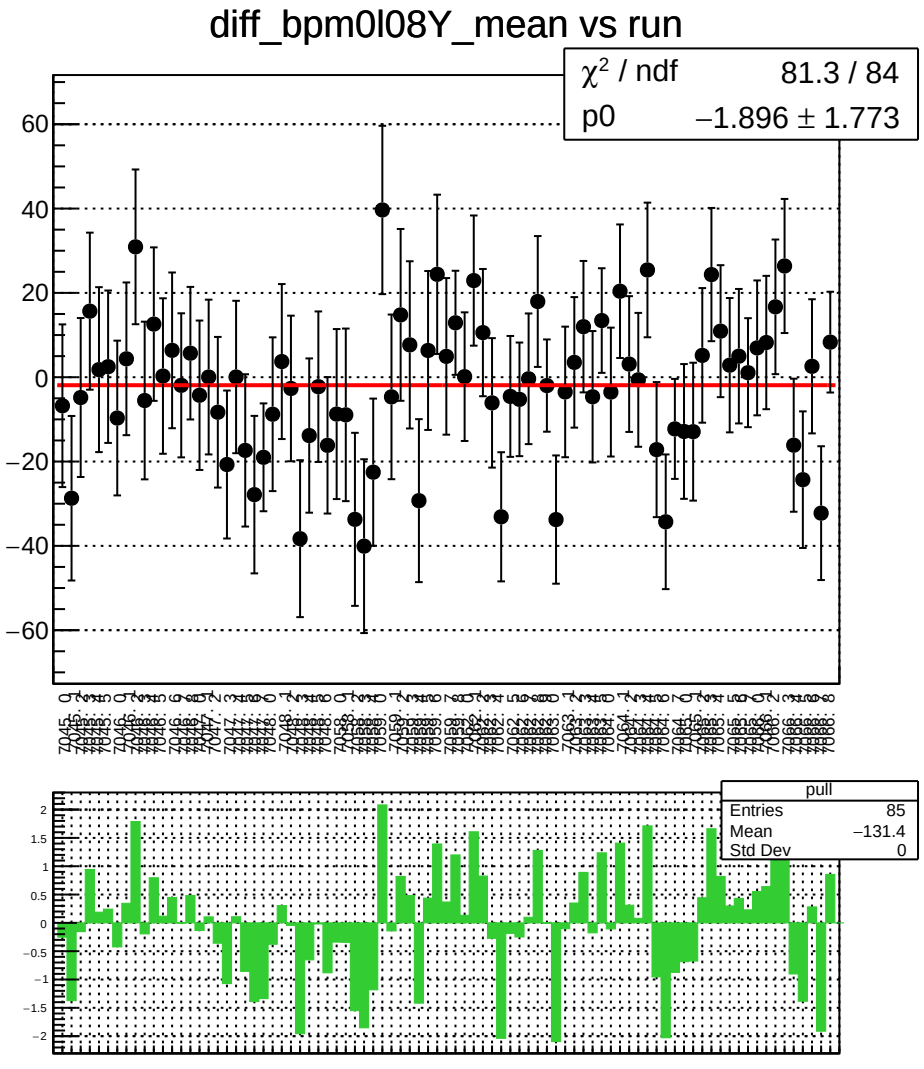

pull1D
Entries 85
Mean −0.02445
Std Dev 0.991

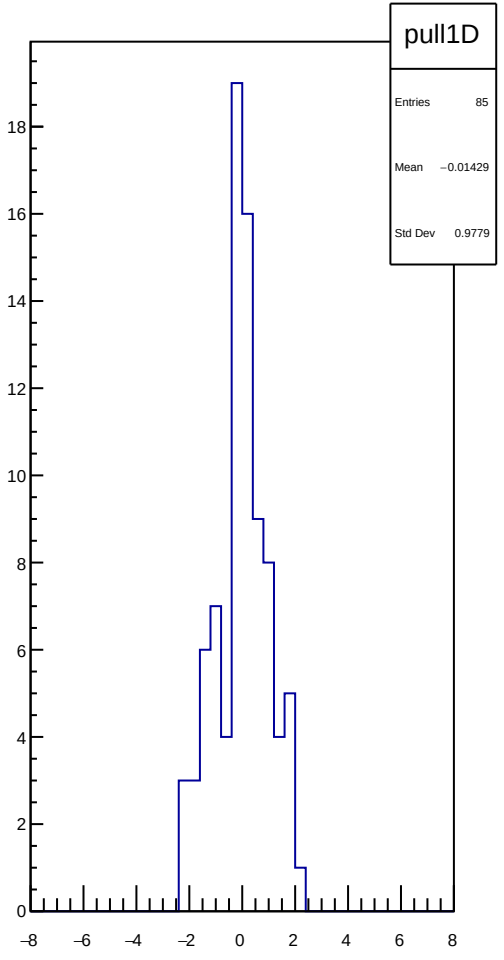

diff_bpm0l07Y_rms vs run
χ² / ndf 1.841e+04 / 84
p0 1523 ± 1.193
1900
1800
1700
1600
1500
1400
1300
1200

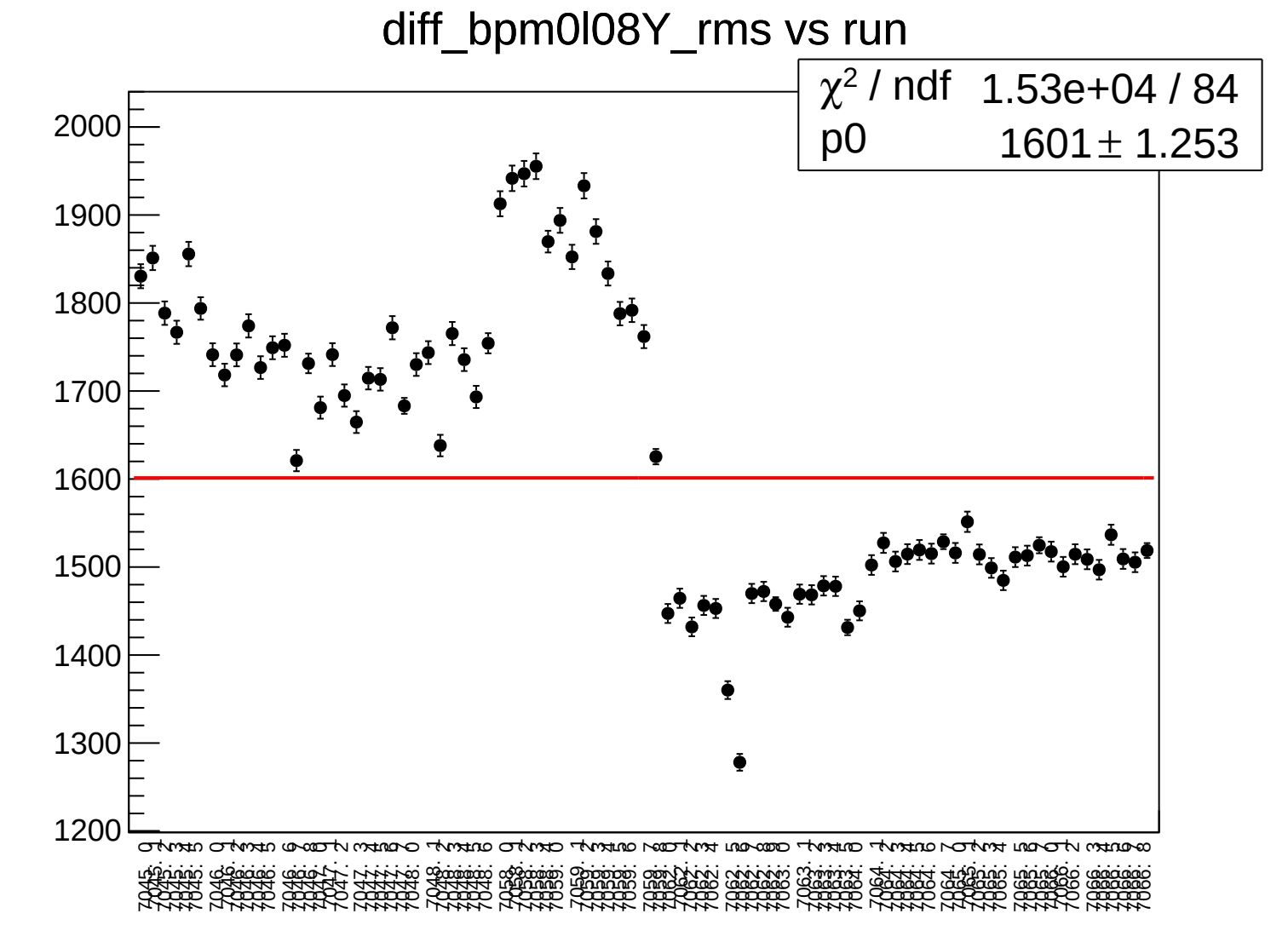

diff_bpm0l08X_mean vs run
χ² / ndf 84.82 / 84
p0 −14.05 ± 7.92
pull
Entries 85
Mean 214
Std Dev 0

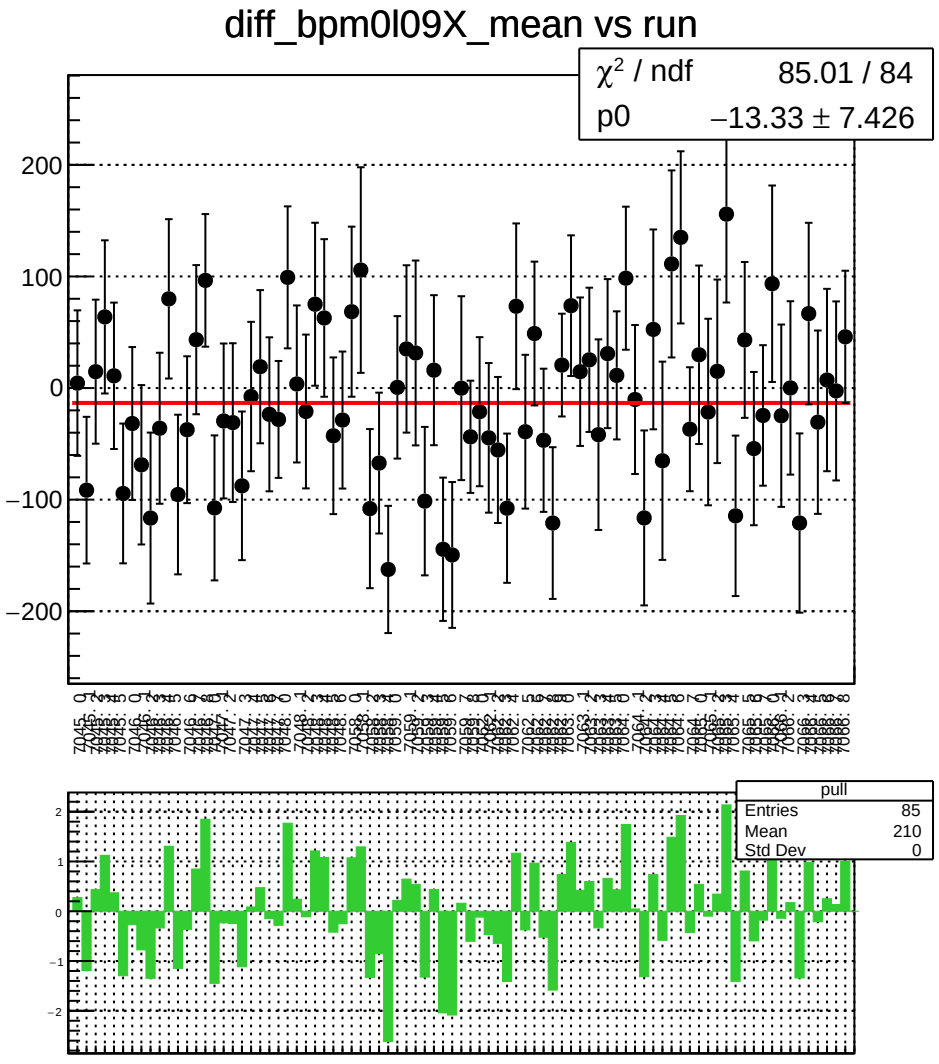

pull1D
Entries 85
Mean 0.0199
Std Dev 0.9987

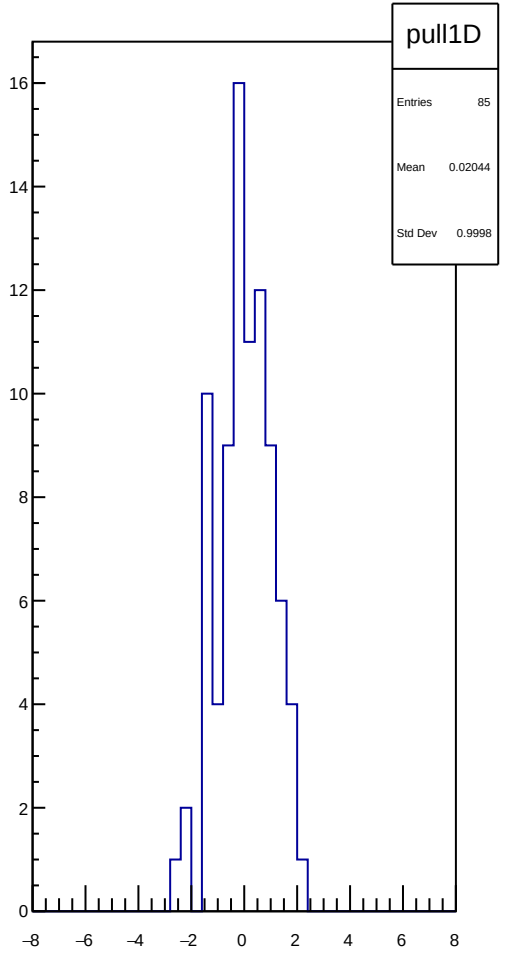

diff_bpm0l08X_rms vs run
χ² / ndf 1.376e+04 / 84
p0 7158 ± 5.601
9500
9000
8500
8000
7500
7000
6500

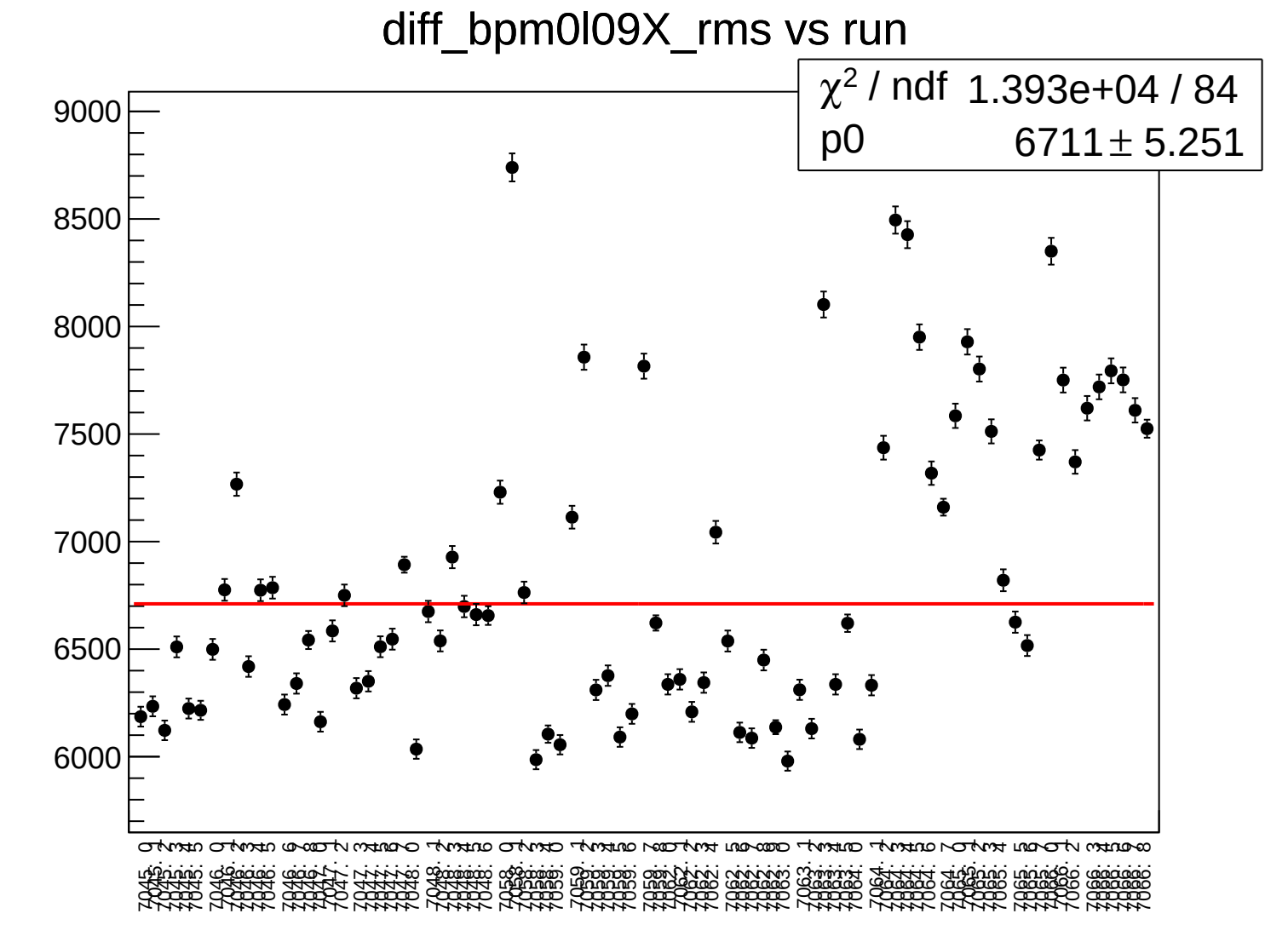

diff_bpm0l08Y_mean vs run
χ² / ndf 81.3 / 84
p0 −1.896 ± 1.773
pull
Entries 85
Mean −131.4
Std Dev 0

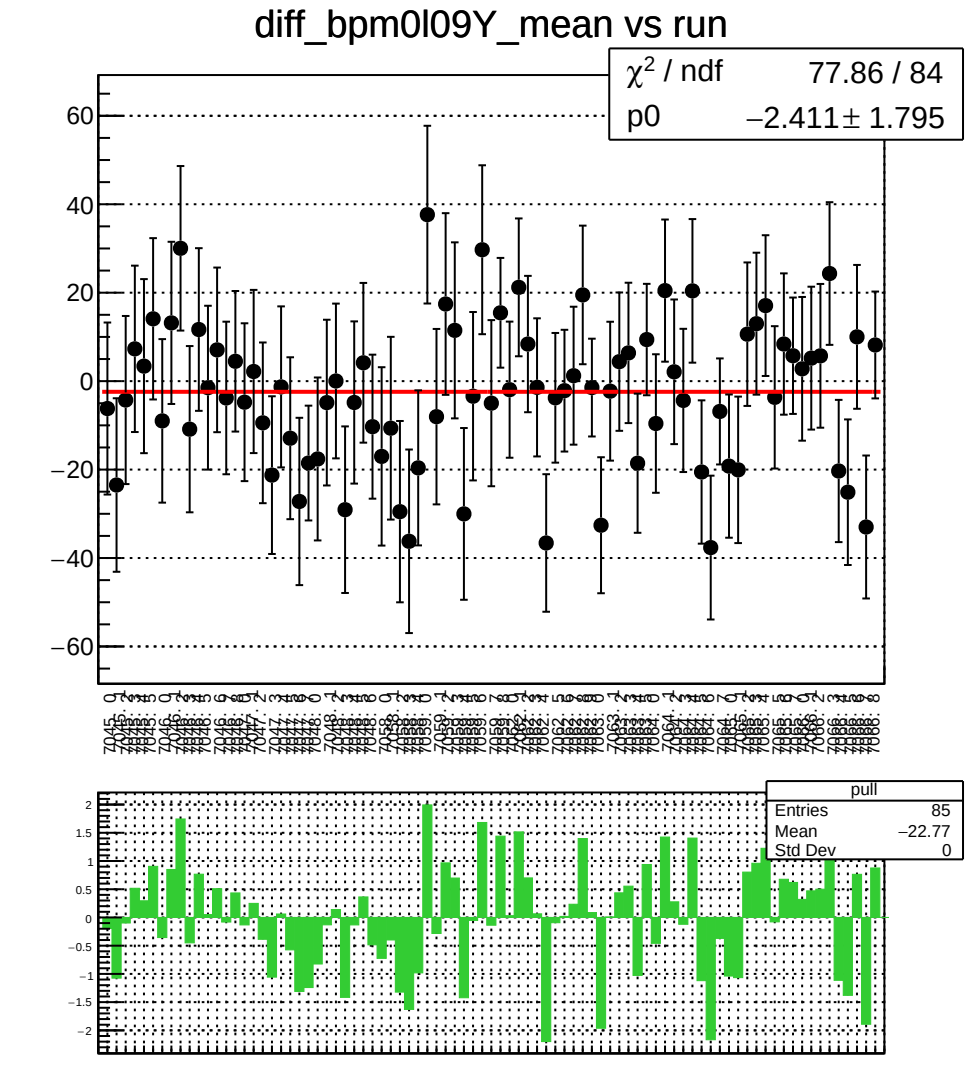

pull1D
Entries 85
Mean −0.01429
Std Dev 0.9779

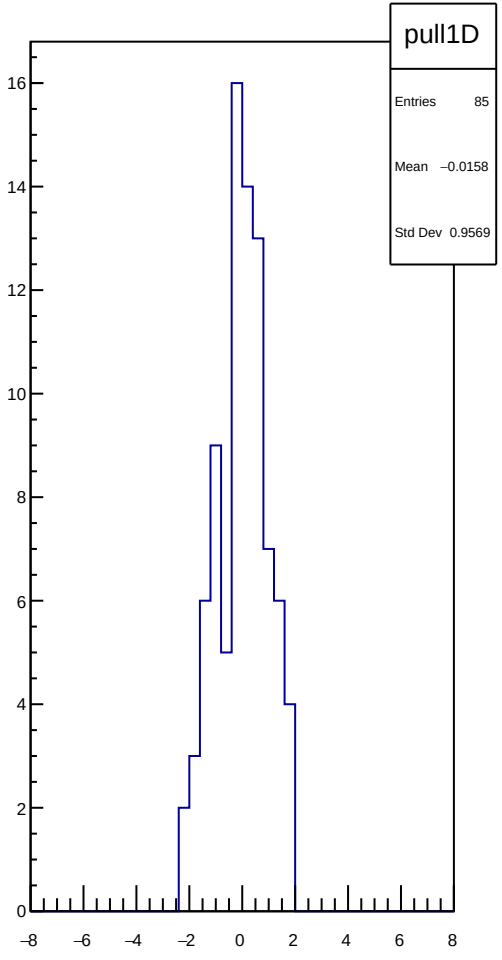

diff_bpm0l08Y_rms vs run
χ² / ndf 1.53e+04 / 84
p0 1601 ± 1.253
2000
1900
1800
1700
1600
1500
1400
1300
1200

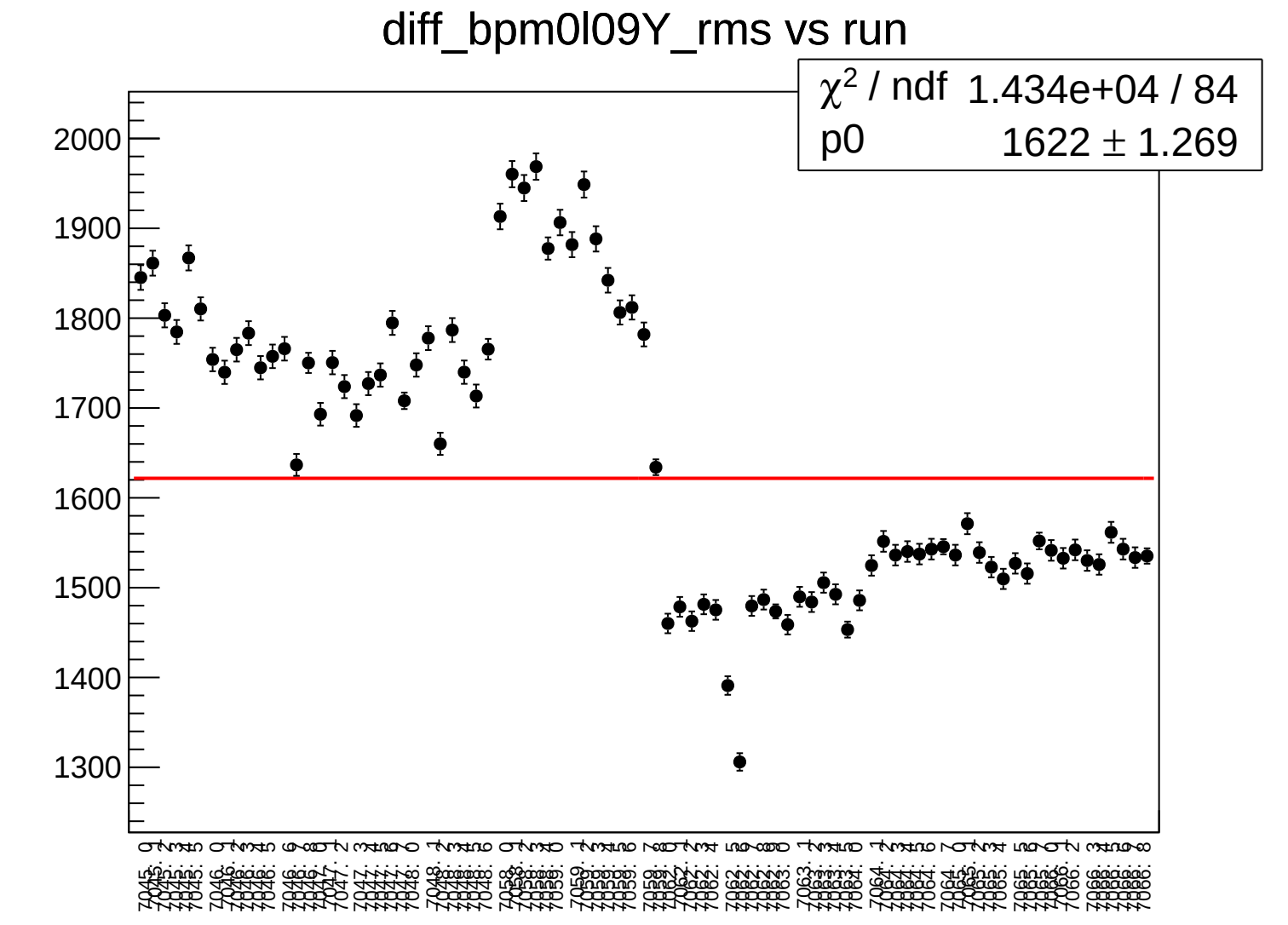

diff_bpm0l09X_mean vs run
χ² / ndf 85.01 / 84
p0 −13.33 ± 7.426
200
100
0
−100
−200
pull
Entries 85
Mean 210
Std Dev 0
2
1
0
−1
−2

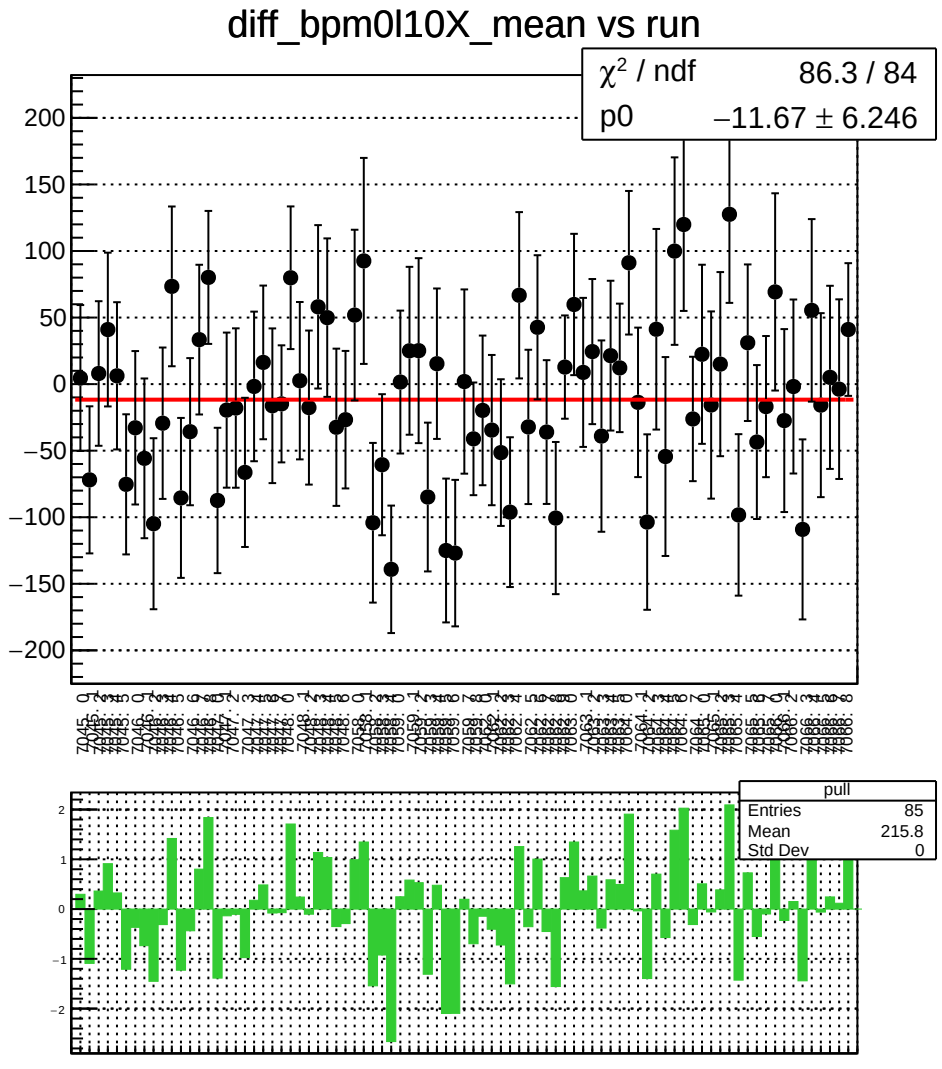

pull1D
Entries 85
Mean 0.02044
Std Dev 0.9998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

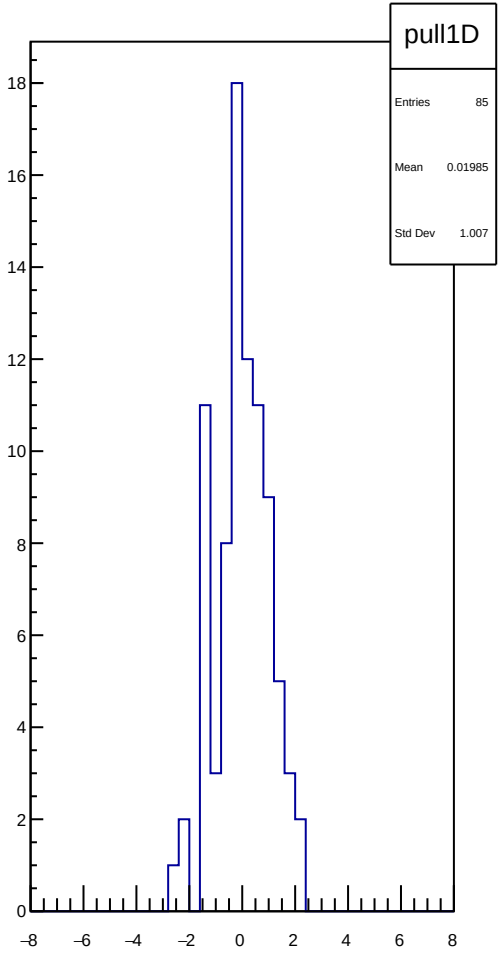

diff_bpm0l09X_rms vs run
χ^2 / ndf 1.393e+04 / 84
p0 6711 ± 5.251
9000
8500
8000
7500
7000
6500
6000

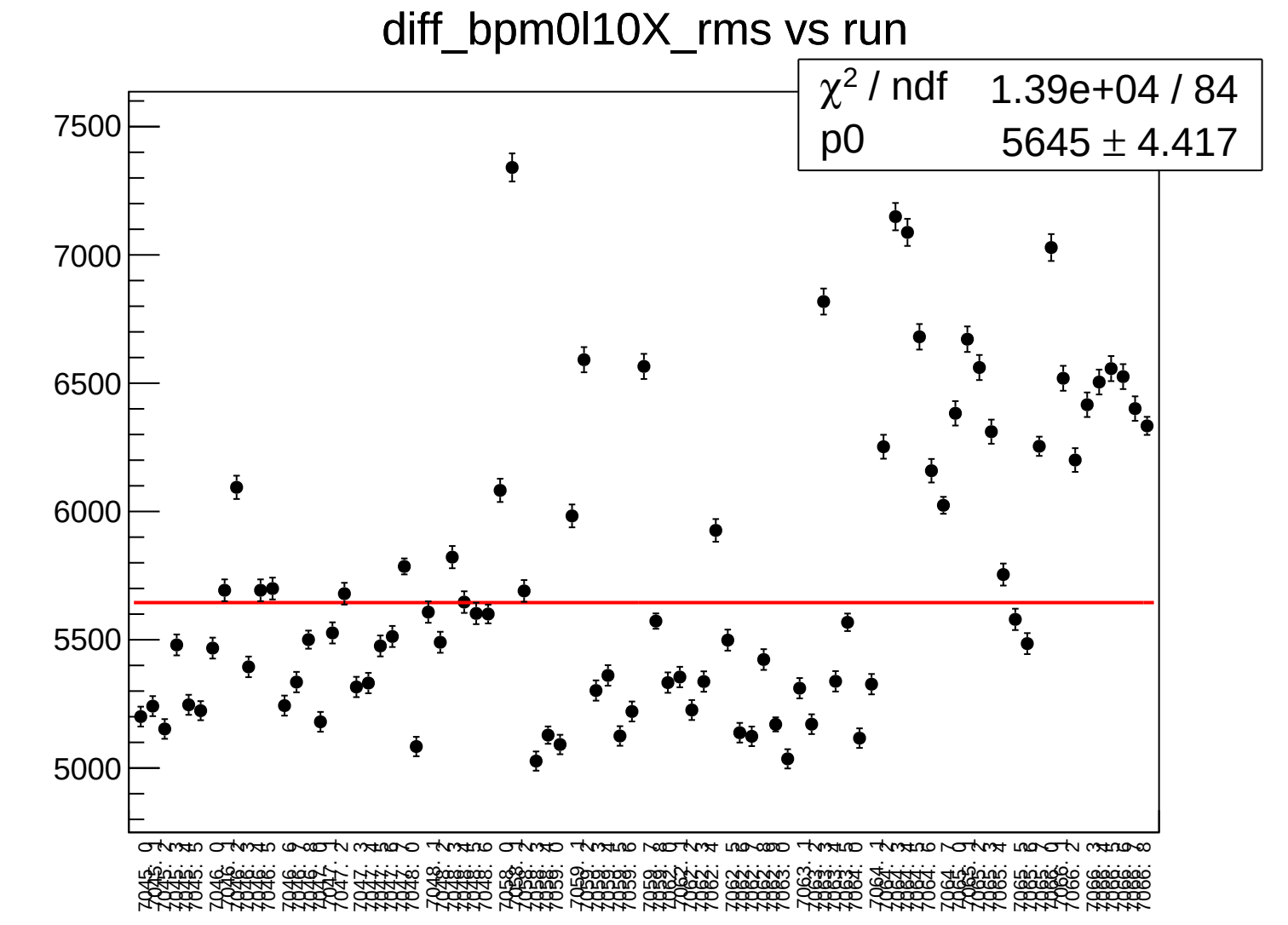

diff_bpm0l09Y_mean vs run
χ² / ndf 77.86 / 84
p0 −2.411 ± 1.795
pull
Entries 85
Mean −22.77
Std Dev 0

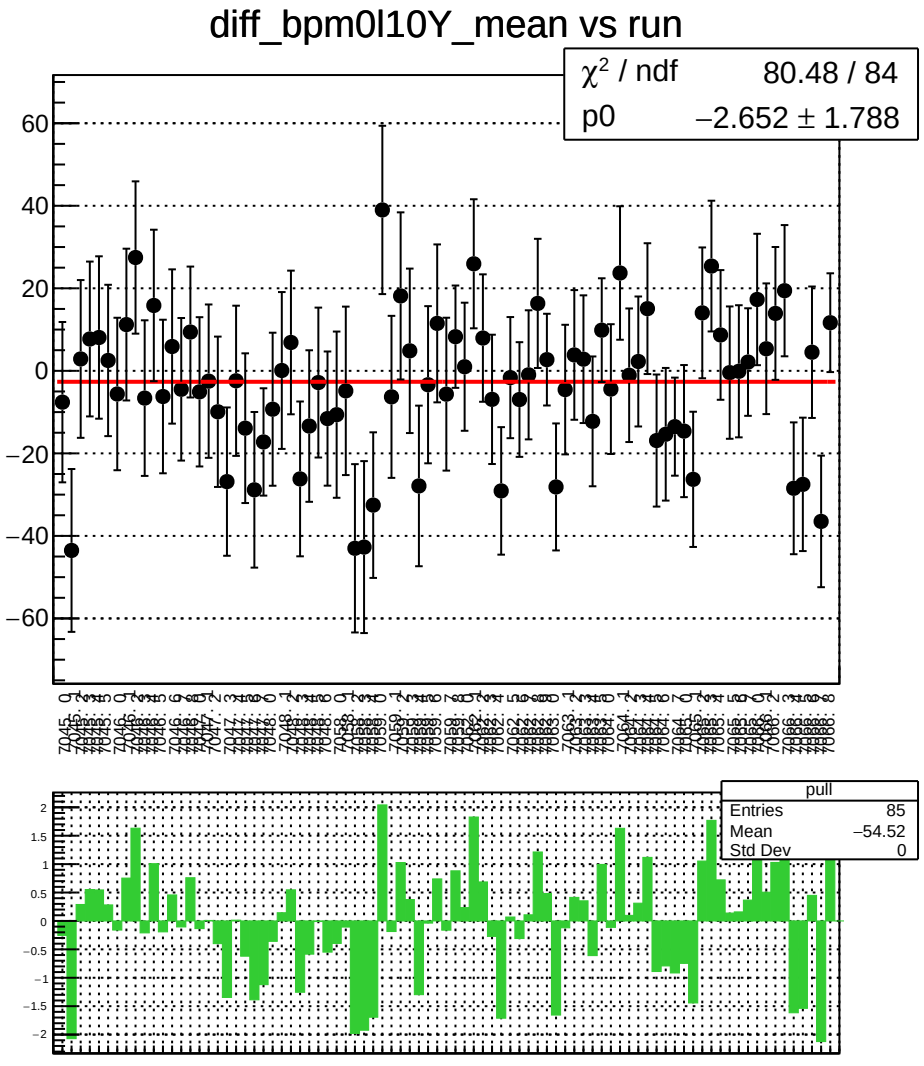

pull1D
Entries 85
Mean −0.0158
Std Dev 0.9569

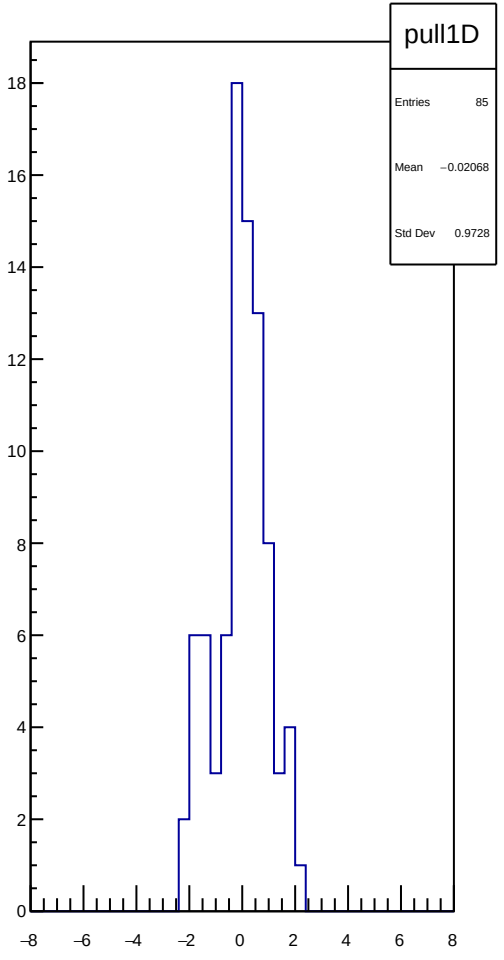

diff_bpm0l09Y_rms vs run
χ² / ndf 1.434e+04 / 84
p0 1622 ± 1.269
2000
1900
1800
1700
1600
1500
1400
1300

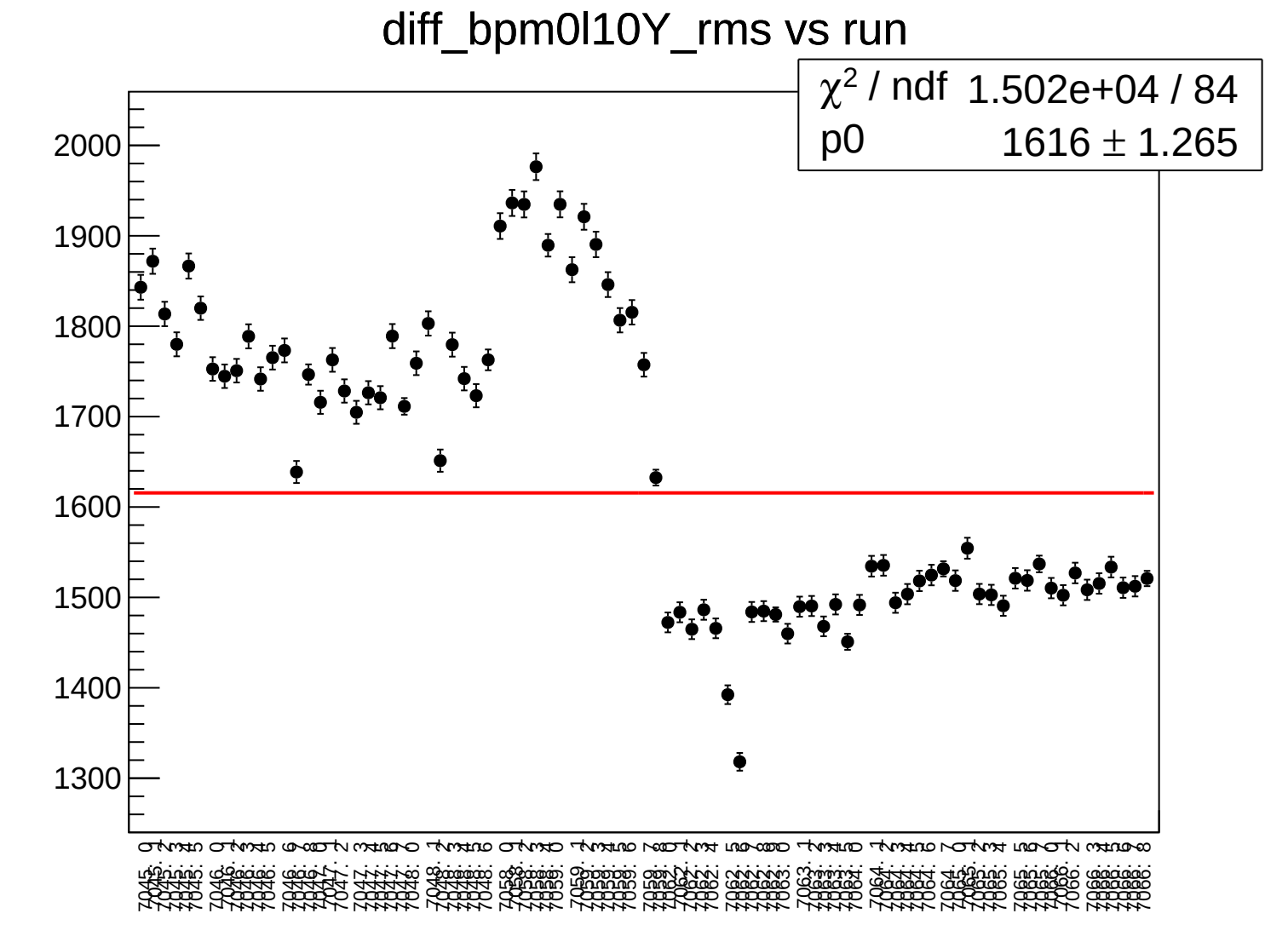

diff_bpm0l10X_mean vs run
χ^2 / ndf 86.3 / 84
p0 −11.67 ± 6.246
pull
Entries 85
Mean 215.8
Std Dev 0

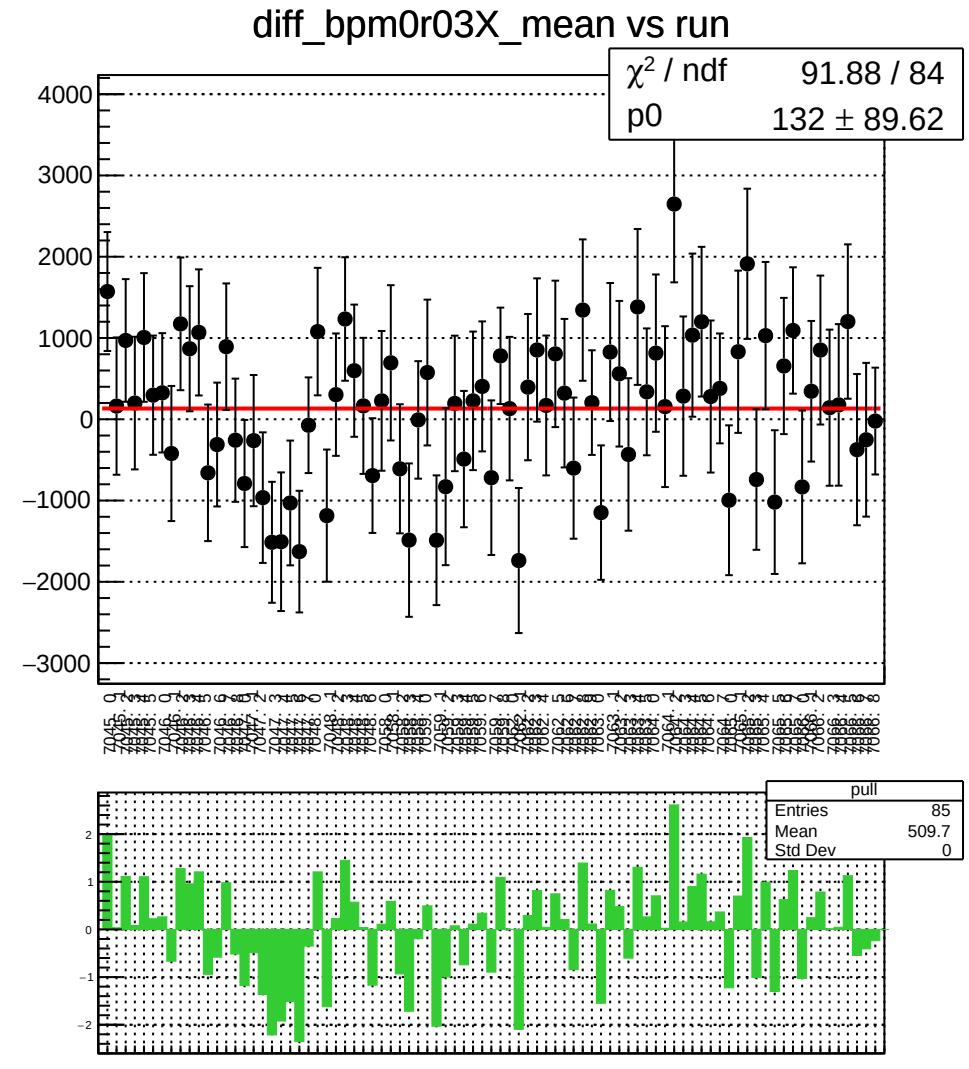

pull1D
Entries 85
Mean 0.01985
Std Dev 1.007

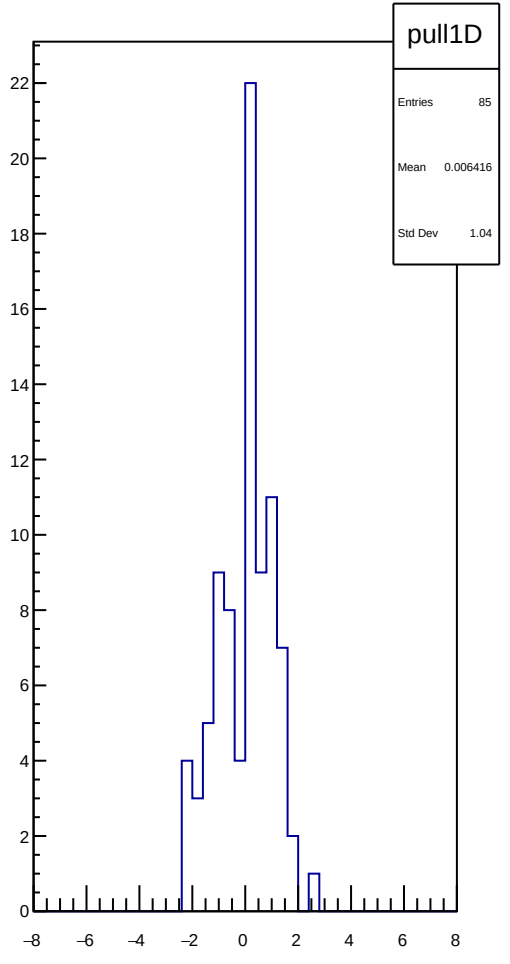

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.39e+04 / 84
p0 5645 ± 4.417
7500
7000
6500
6000
5500
5000

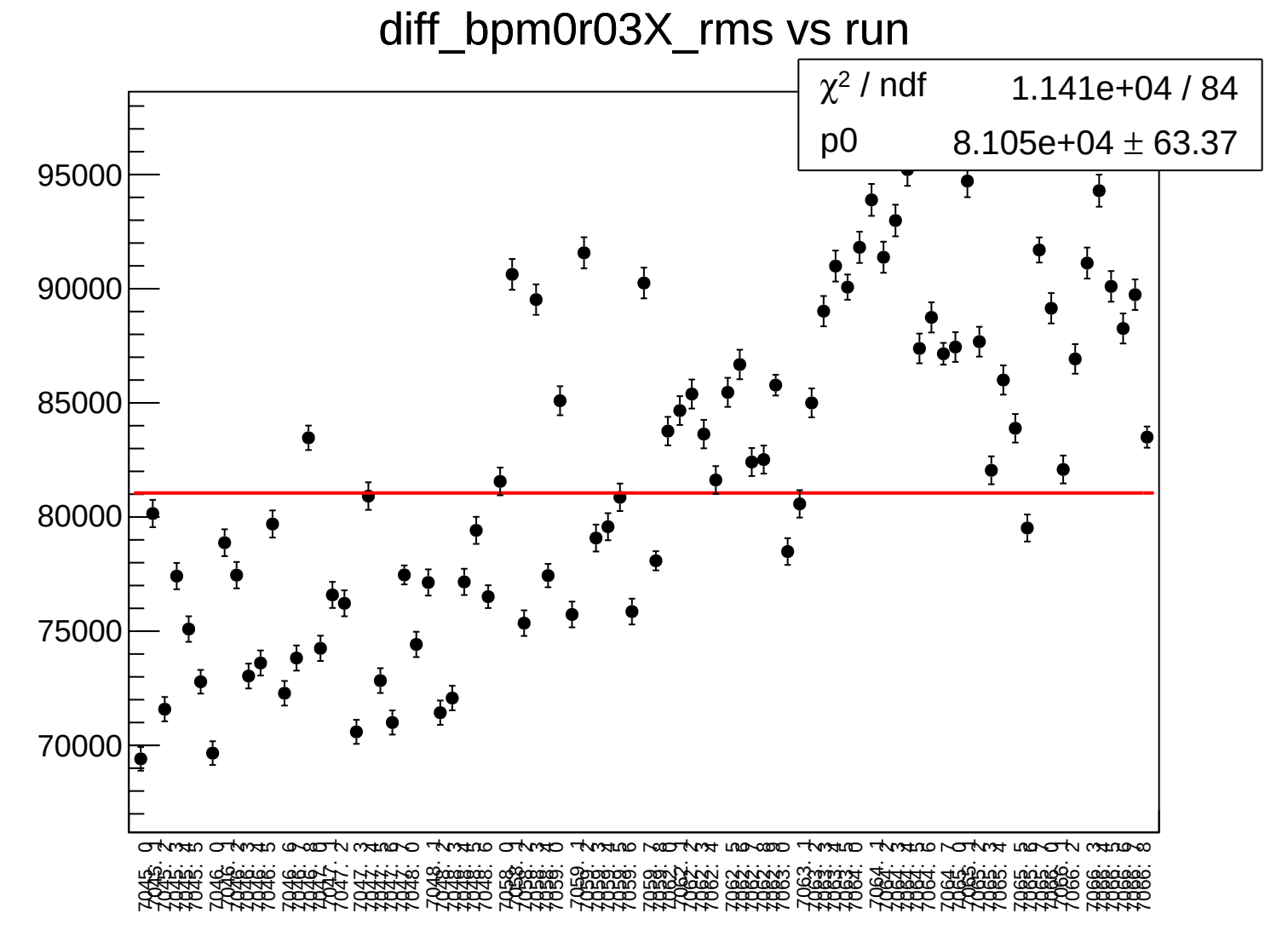

diff_bpm0l10Y_mean vs run
χ² / ndf 80.48 / 84
p0 −2.652 ± 1.788
pull
Entries 85
Mean −54.52
Std Dev 0

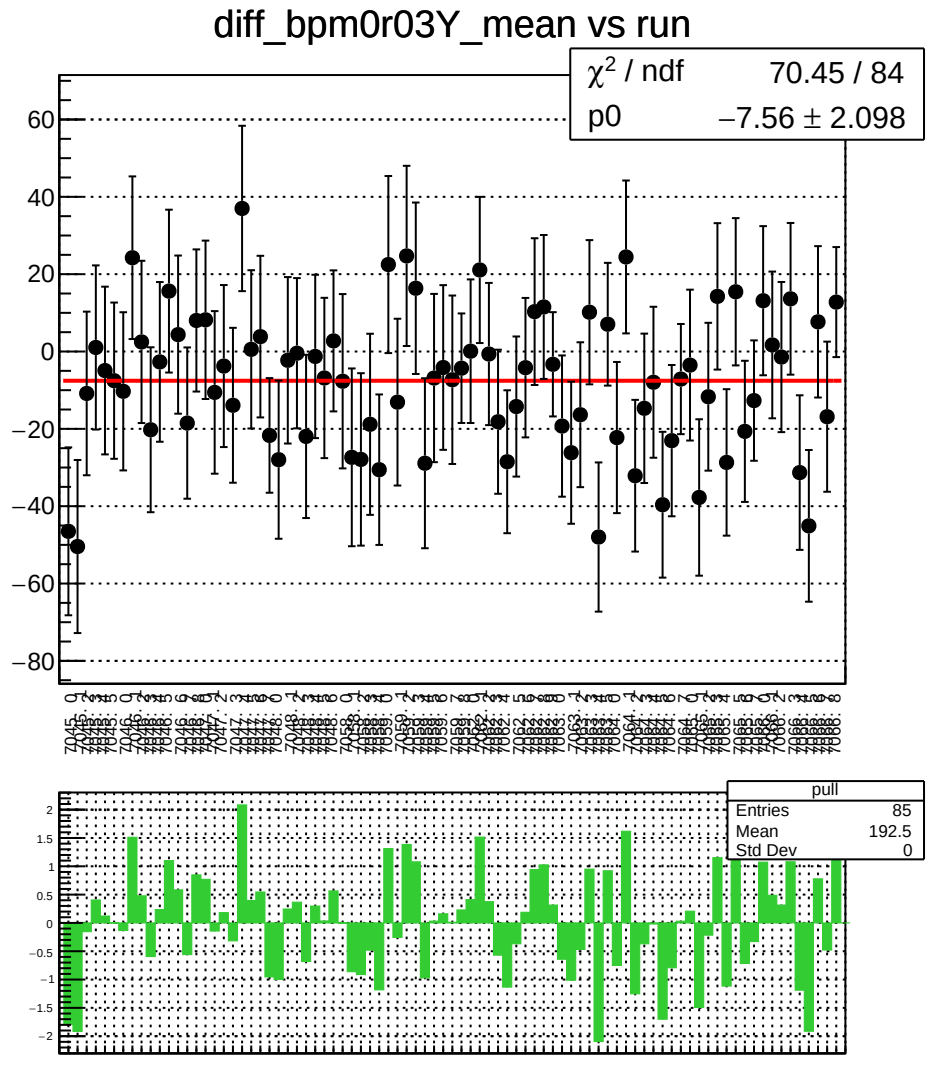

pull1D
Entries 85
Mean −0.02068
Std Dev 0.9728

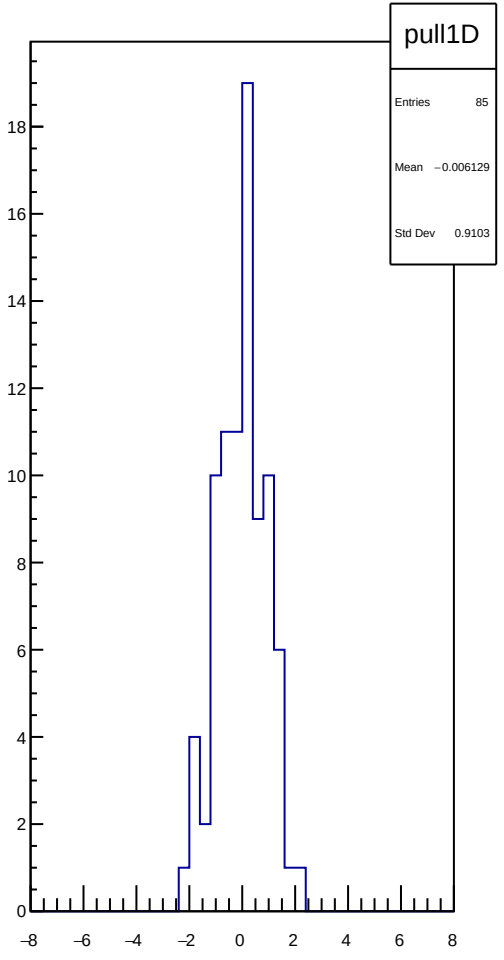

diff_bpm0l10Y_rms vs run
χ² / ndf 1.502e+04 / 84
p0 1616 ± 1.265
2000
1900
1800
1700
1600
1500
1400
1300

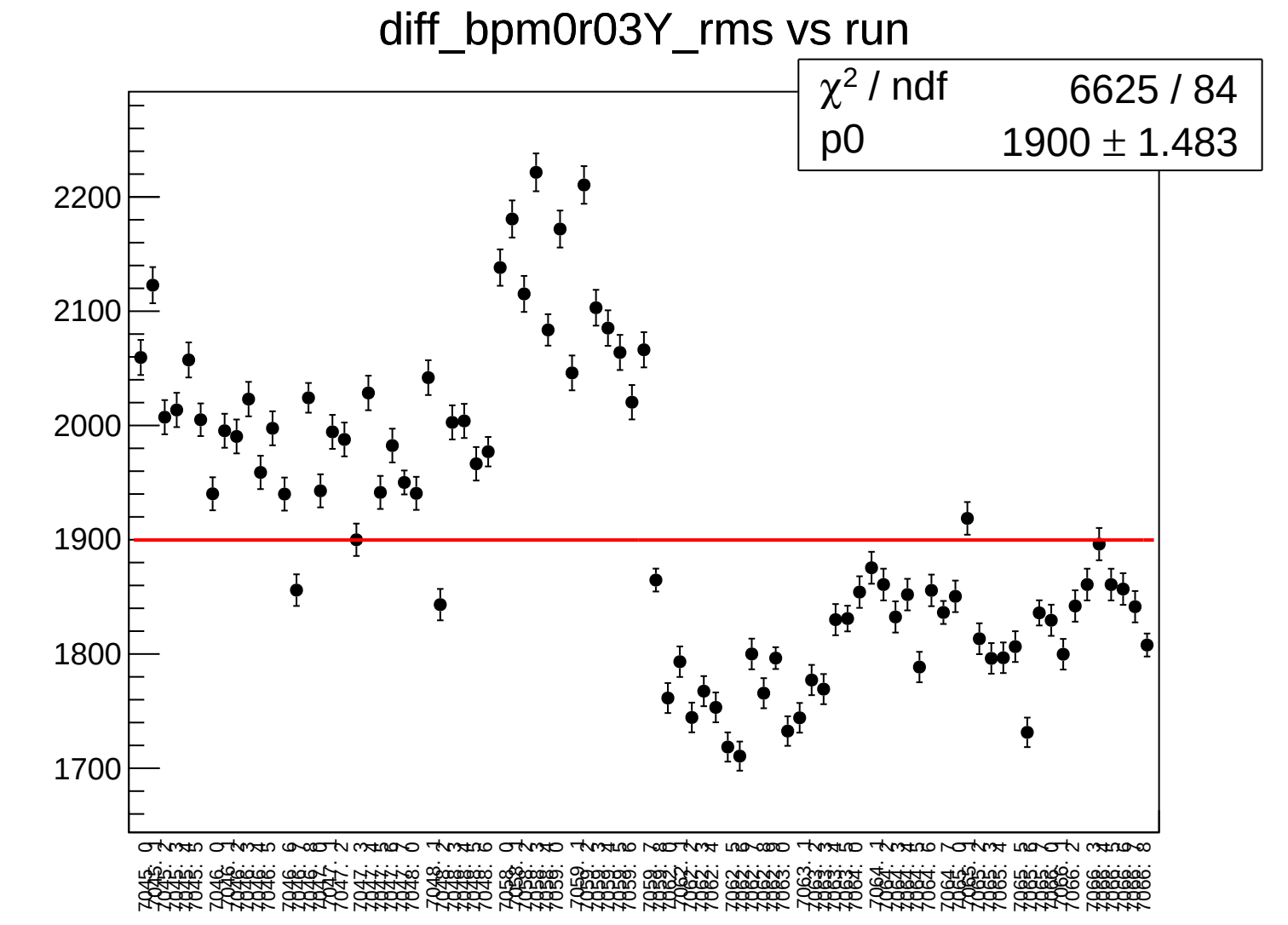

diff_bpm0r03X_mean vs run
χ² / ndf 91.88 / 84
p0 132 ± 89.62
pull
Entries 85
Mean 509.7
Std Dev 0

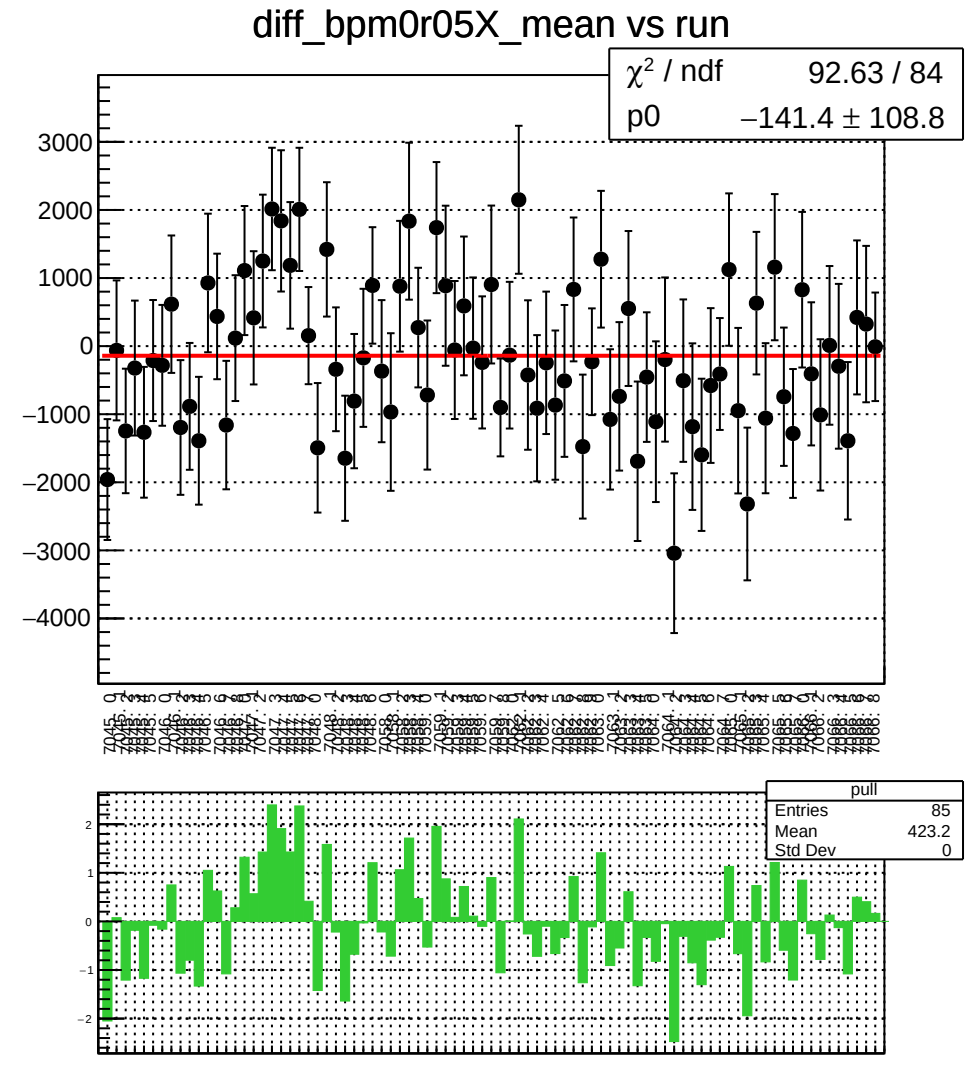

pull1D
Entries 85
Mean 0.006416
Std Dev 1.04

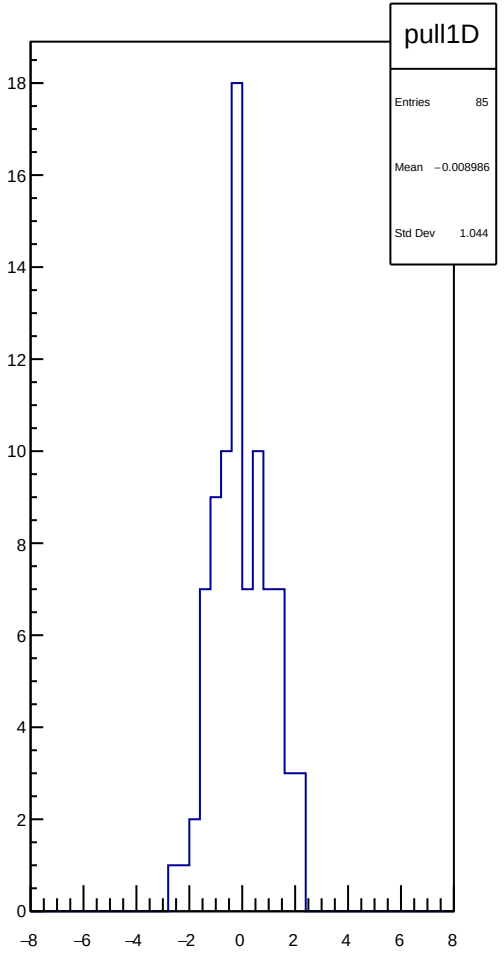

diff_bpm0r03X_rms vs run
χ² / ndf 1.141e+04 / 84
p0 8.105e+04 ± 63.37
95000
90000
85000
80000
75000
70000

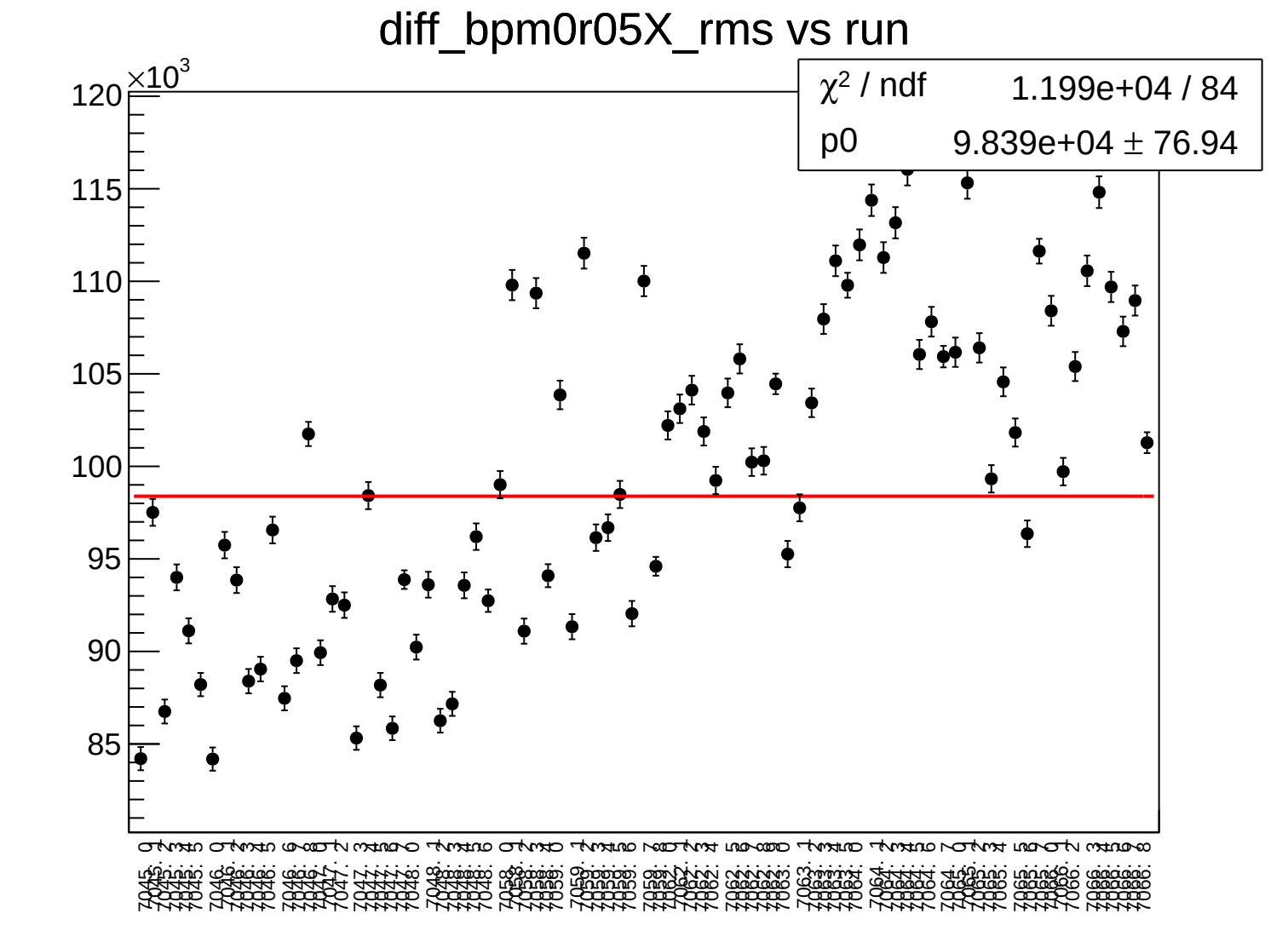

diff_bpm0r03Y_mean vs run
χ^2 / ndf 70.45 / 84
p0 −7.56 ± 2.098
pull
Entries 85
Mean 192.5
Std Dev 0

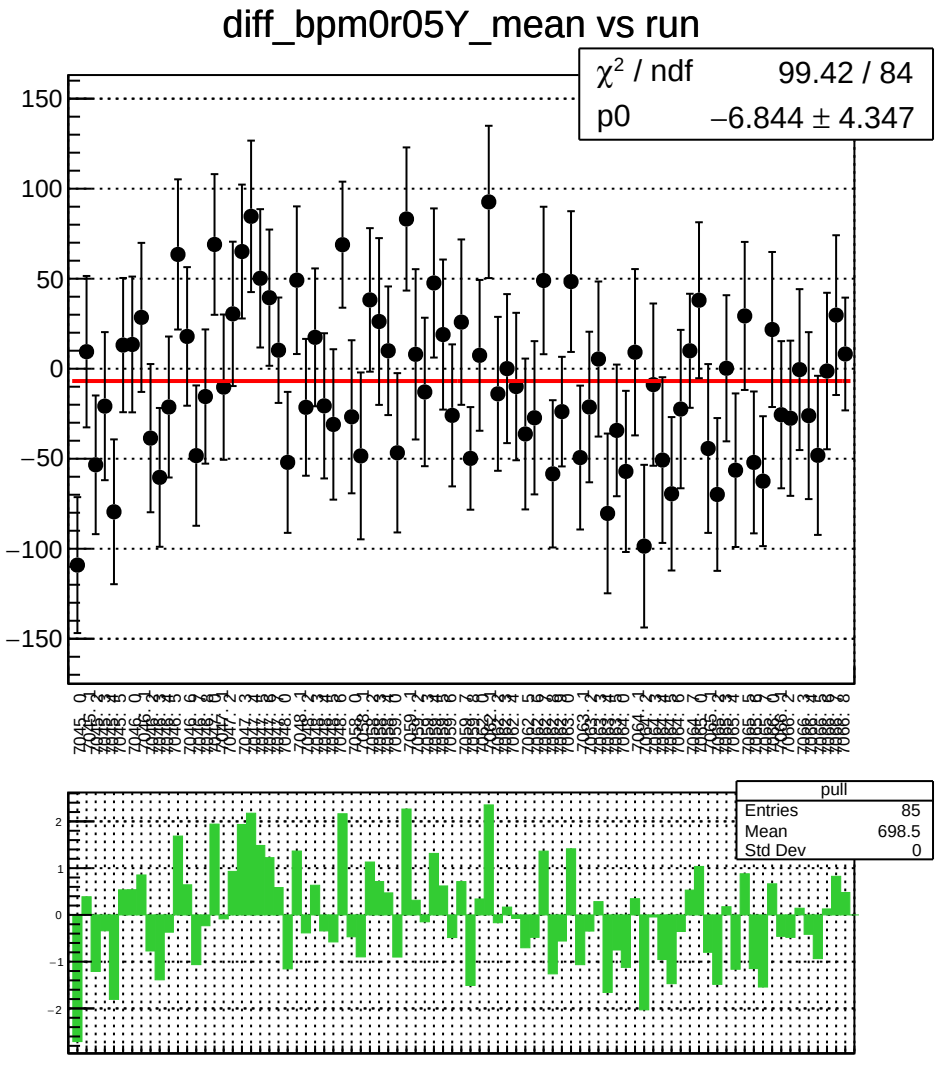

pull1D
Entries 85
Mean −0.006129
Std Dev 0.9103

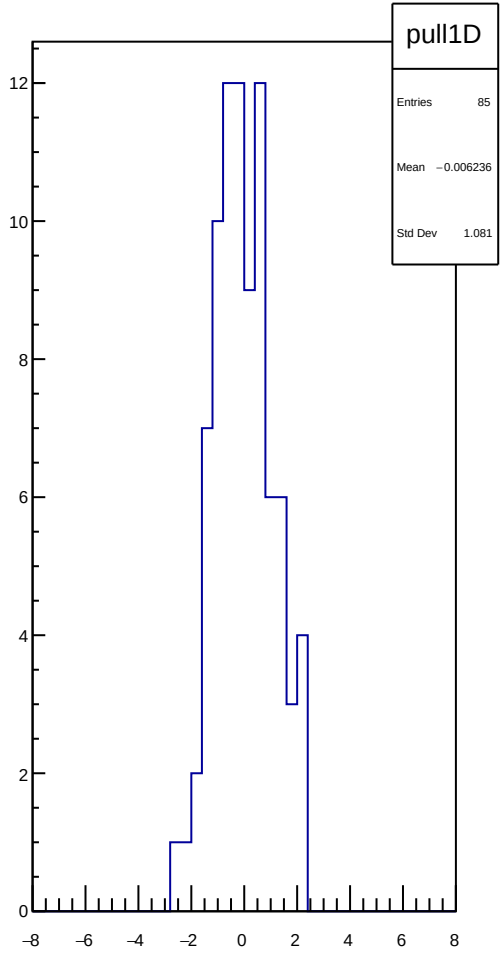

diff_bpm0r03Y_rms vs run
χ^2 / ndf 6625 / 84
p0 1900 ± 1.483
2200
2100
2000
1900
1800
1700

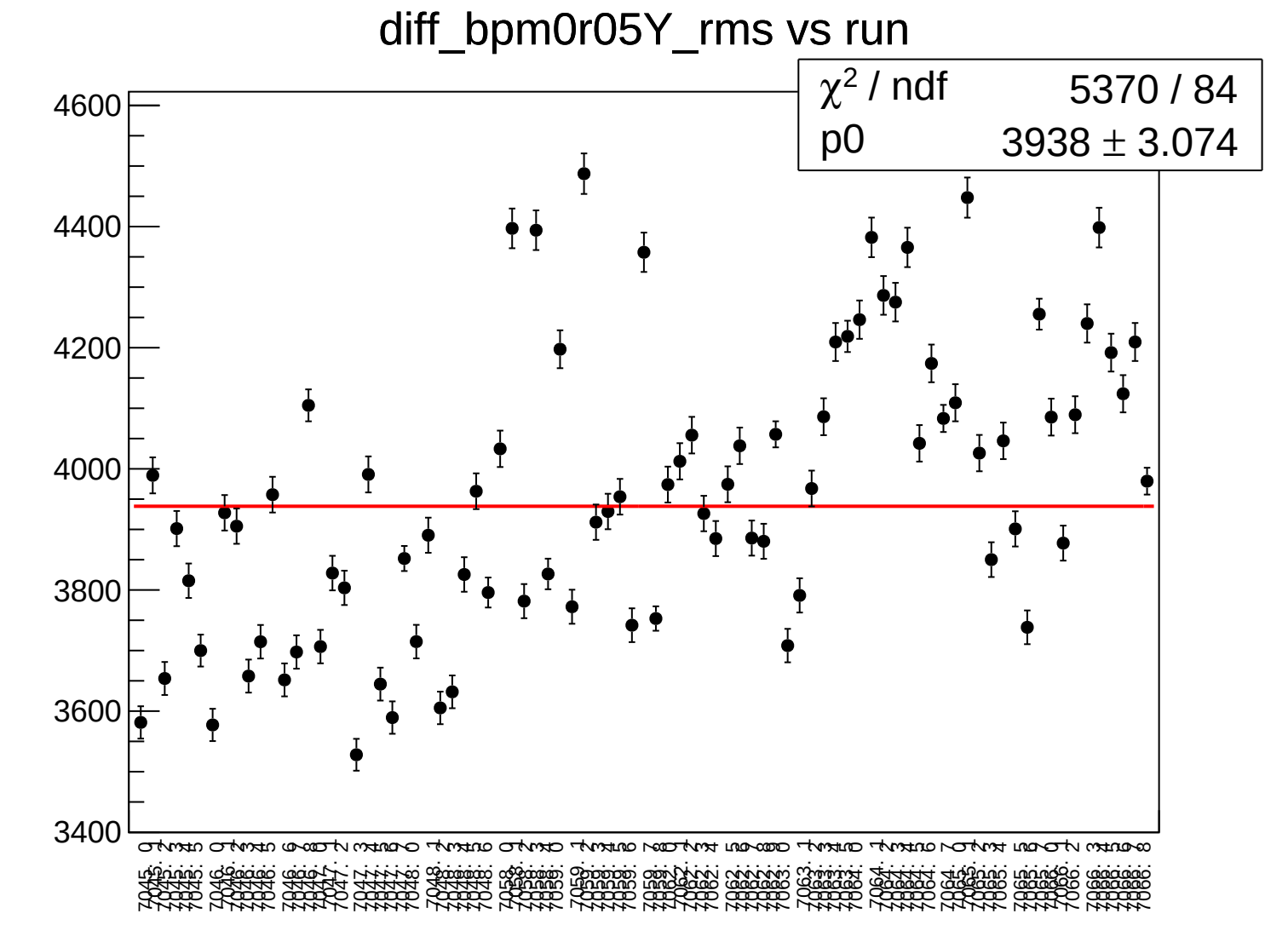

diff_bpm0r05X_mean vs run
χ² / ndf 92.63 / 84
p0 −141.4 ± 108.8
pull
Entries 85
Mean 423.2
Std Dev 0

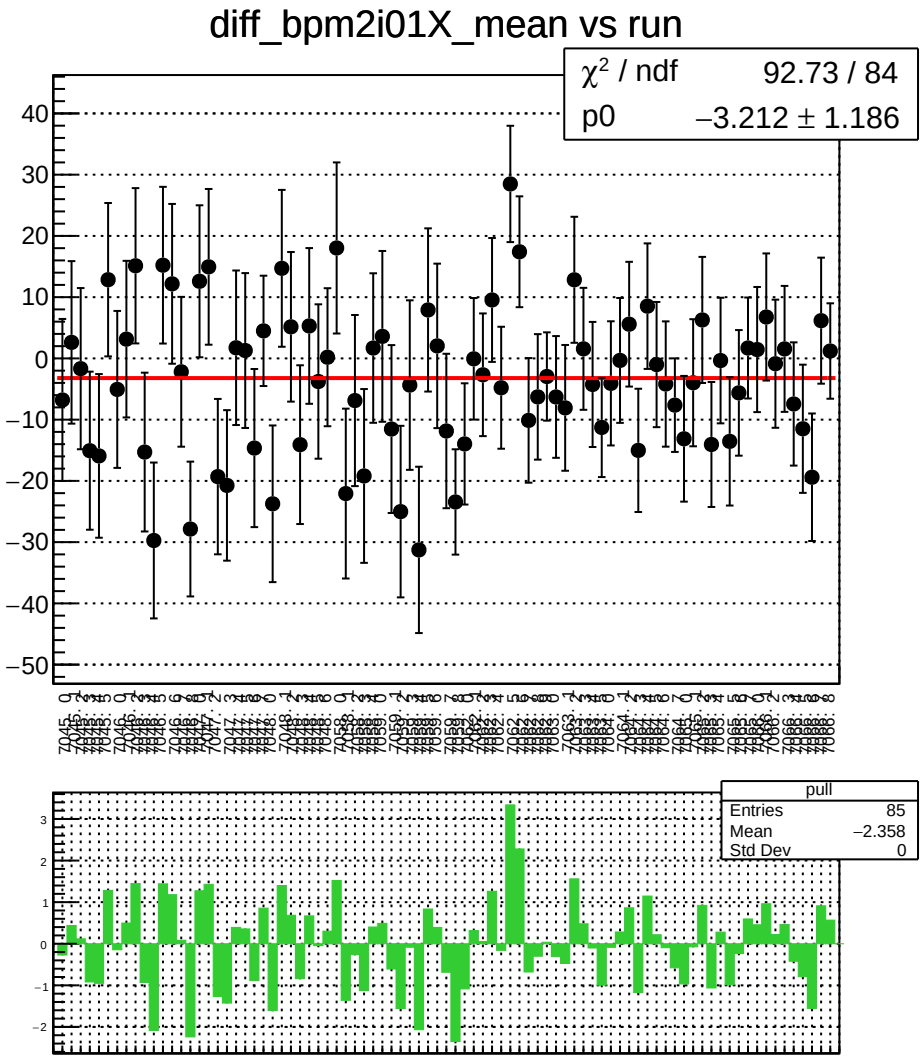

pull1D
Entries 85
Mean −0.008986
Std Dev 1.044

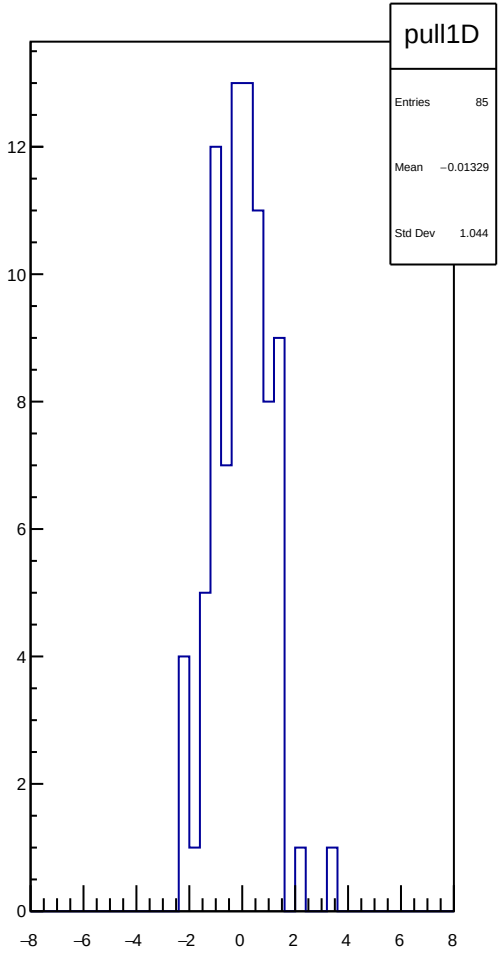

diff_bpm0r05X_rms vs run
×10^3
120
115
110
105
100
95
90
85
χ² / ndf 1.199e+04 / 84
p0 9.839e+04 ± 76.94

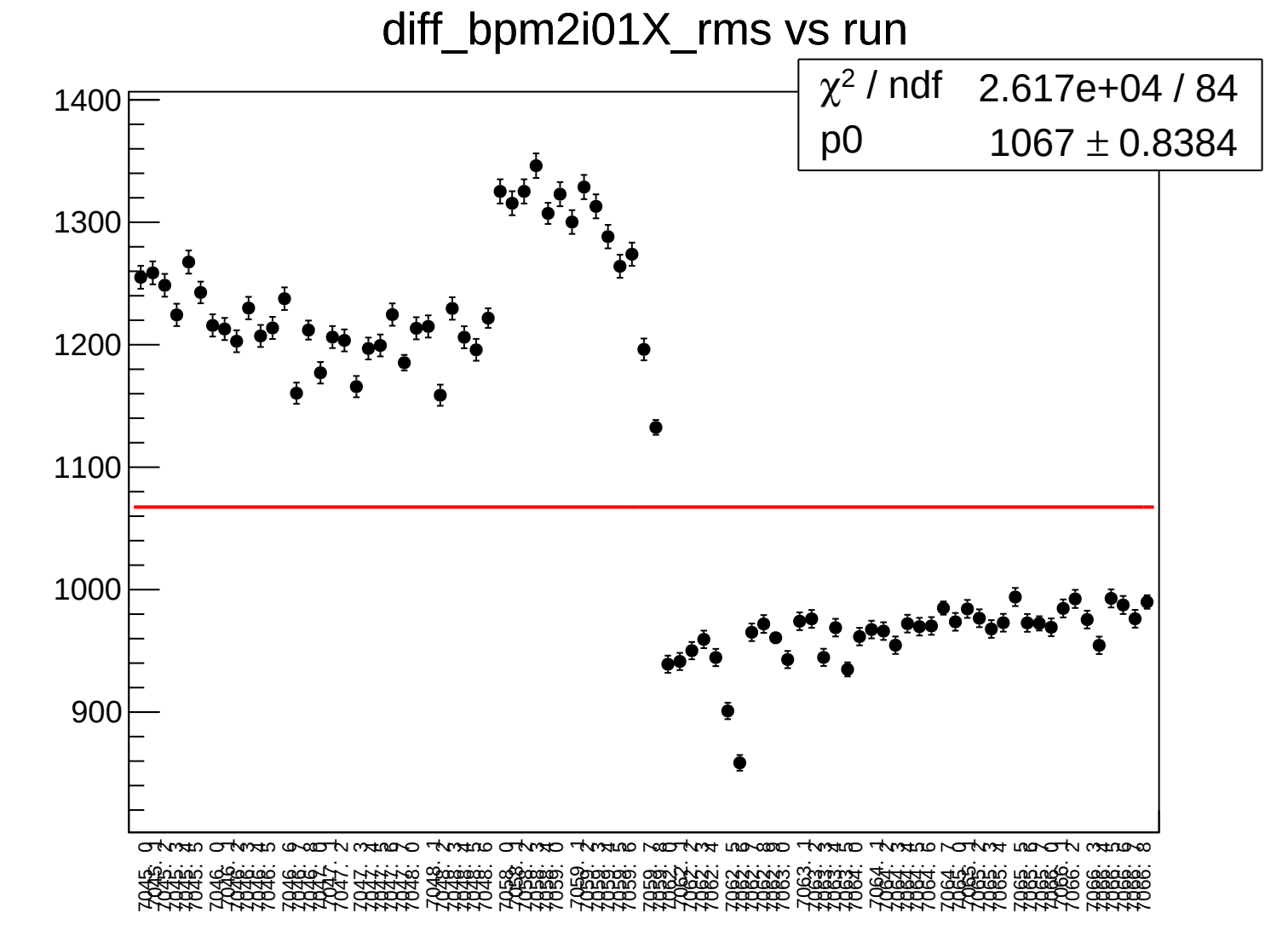

diff_bpm0r05Y_mean vs run
χ² / ndf 99.42 / 84
p0 −6.844 ± 4.347
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 698.5
Std Dev 0
2
1
0
−1
−2

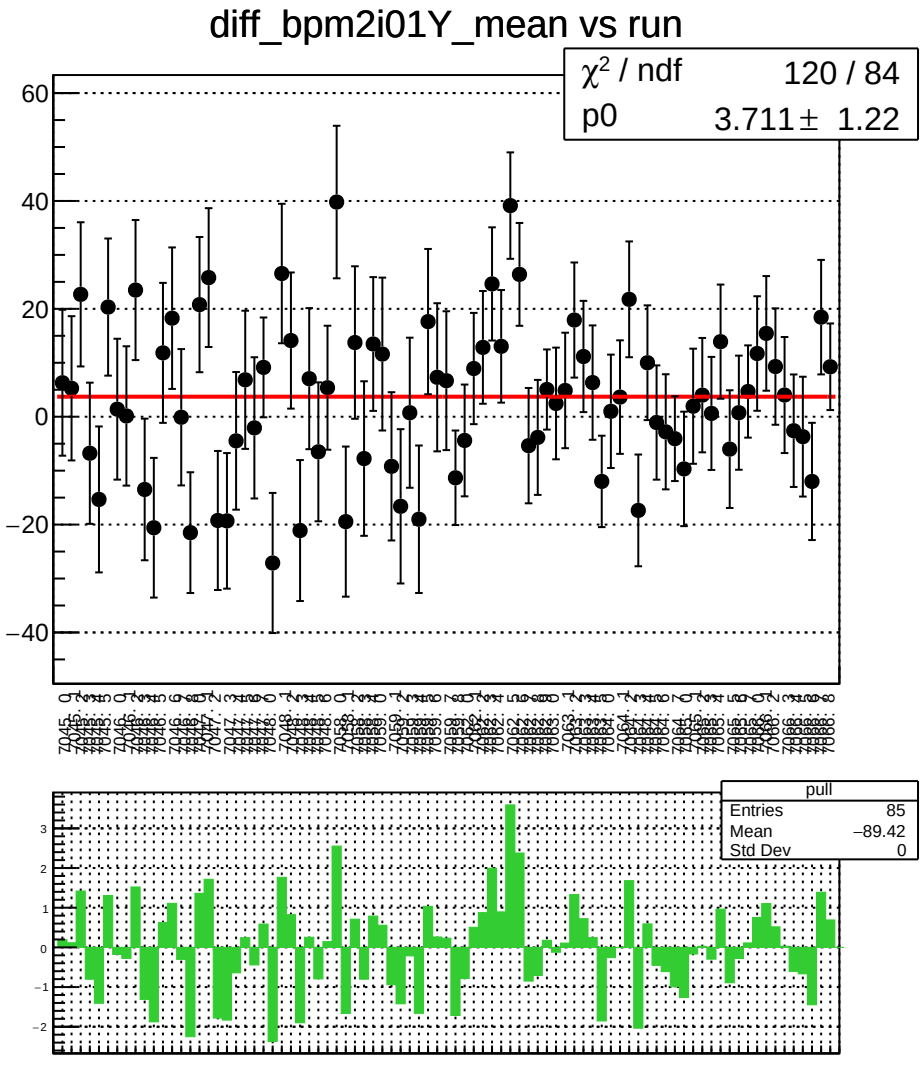

pull1D
Entries 85
Mean −0.006236
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

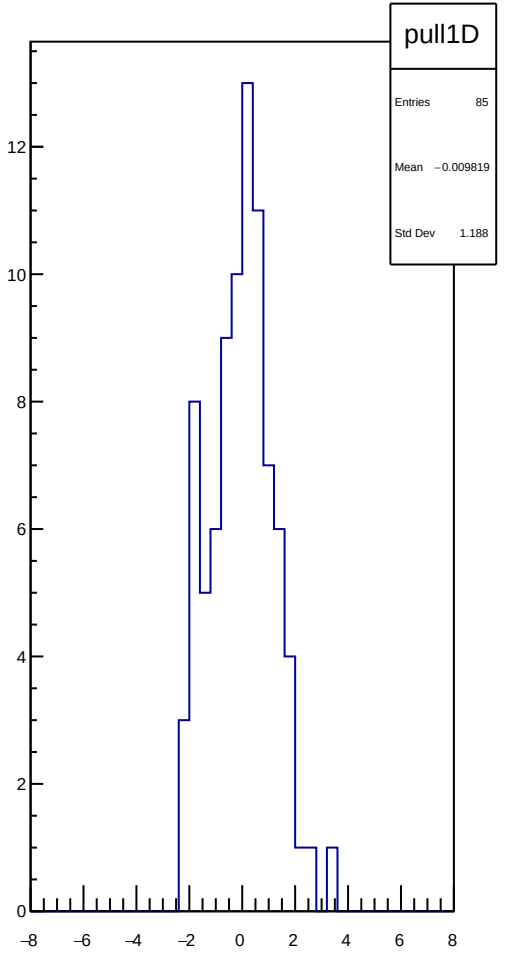

diff_bpm0r05Y_rms vs run
χ² / ndf 5370 / 84
p0 3938 ± 3.074
4600
4400
4200
4000
3800
3600
3400

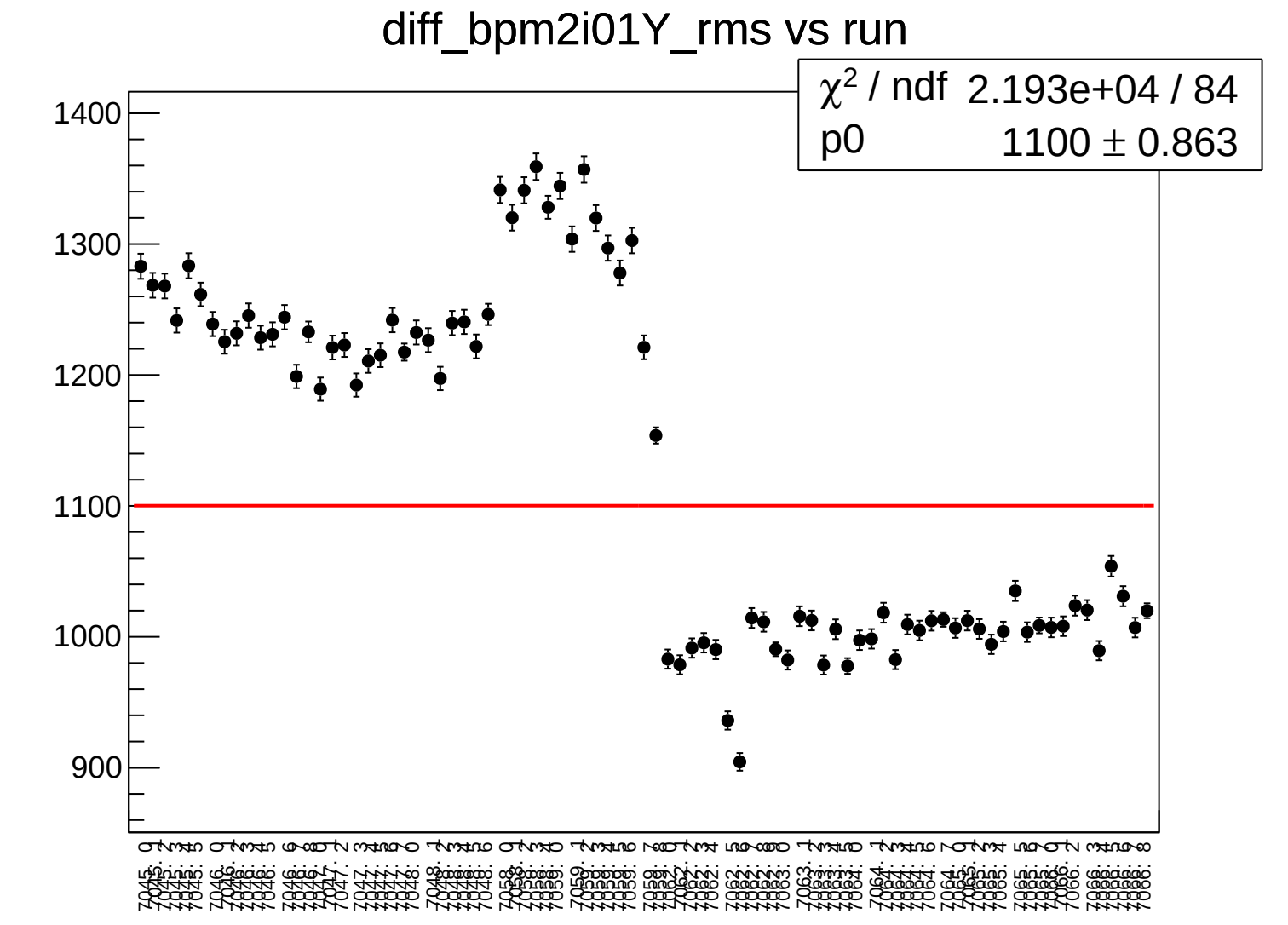

diff_bpm2i01X_mean vs run
χ² / ndf 92.73 / 84
p0 −3.212 ± 1.186
pull
Entries 85
Mean −2.358
Std Dev 0

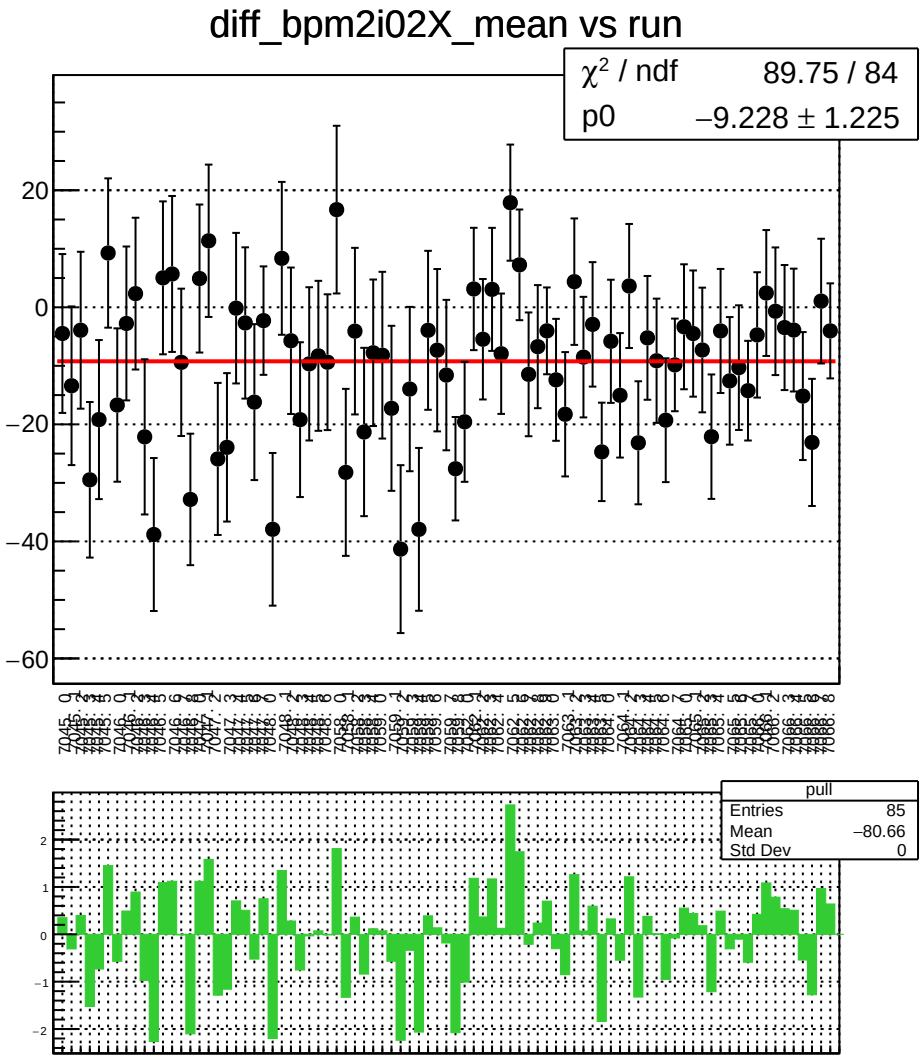

pull1D
Entries 85
Mean −0.01329
Std Dev 1.044

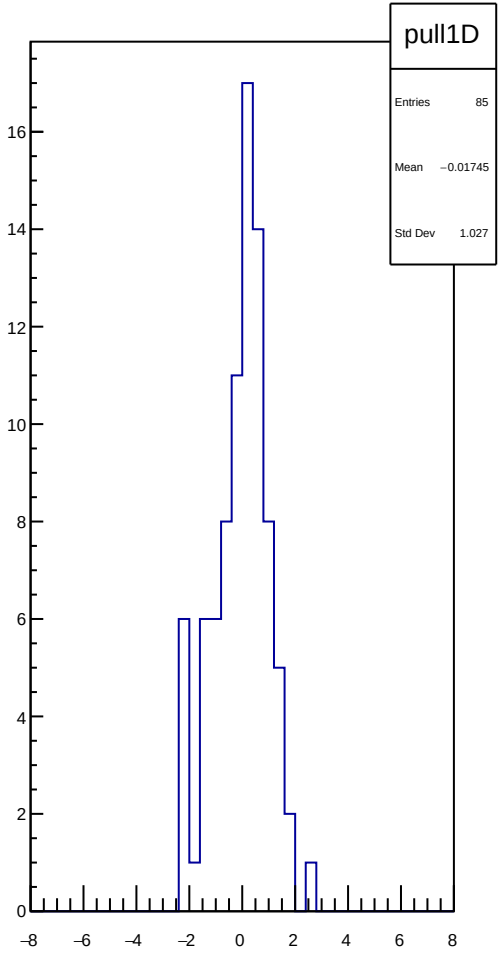

diff_bpm2i01X_rms vs run
χ² / ndf 2.617e+04 / 84
p0 1067 ± 0.8384
1400
1300
1200
1100
1000
900

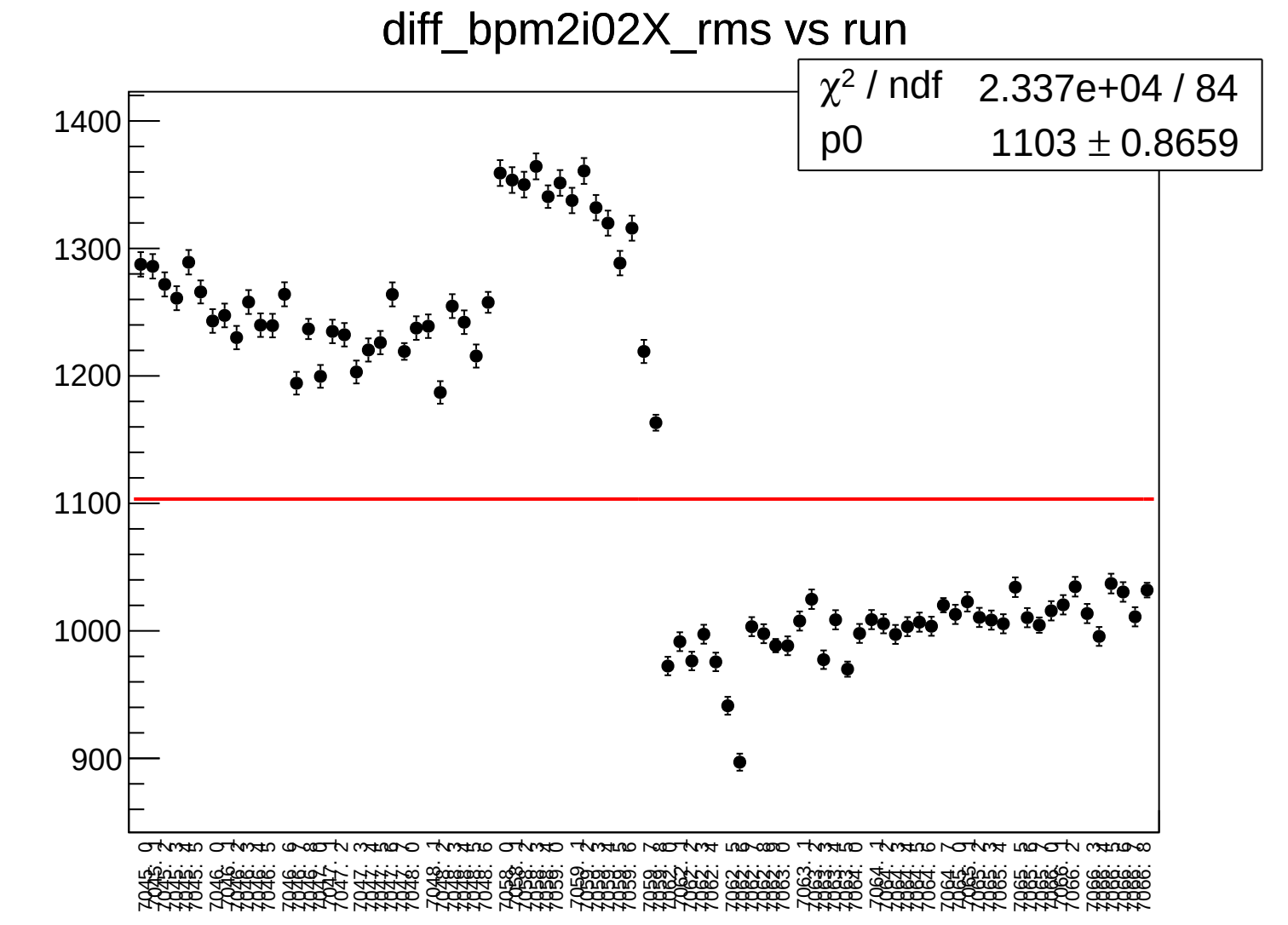

diff_bpm2i01Y_mean vs run
χ² / ndf 120 / 84
p0 3.711 ± 1.22
pull
Entries 85
Mean −89.42
Std Dev 0

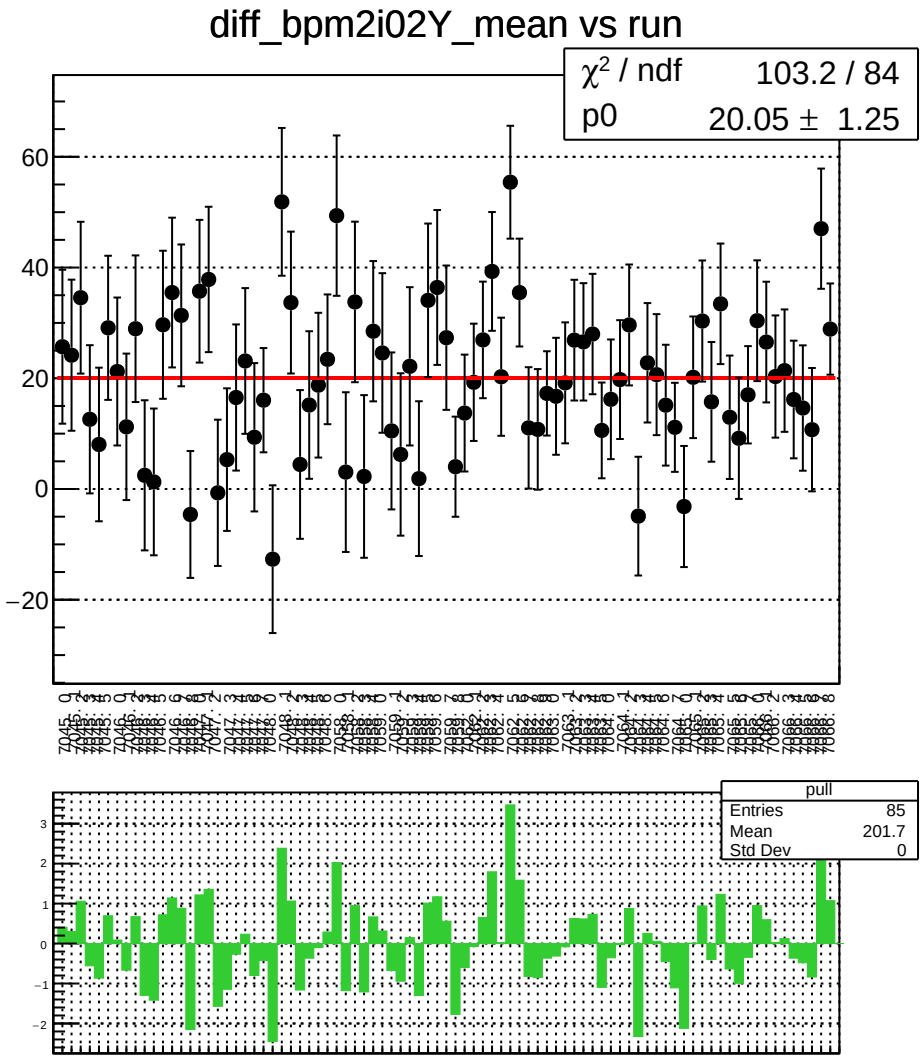

pull1D
Entries 85
Mean −0.009819
Std Dev 1.188

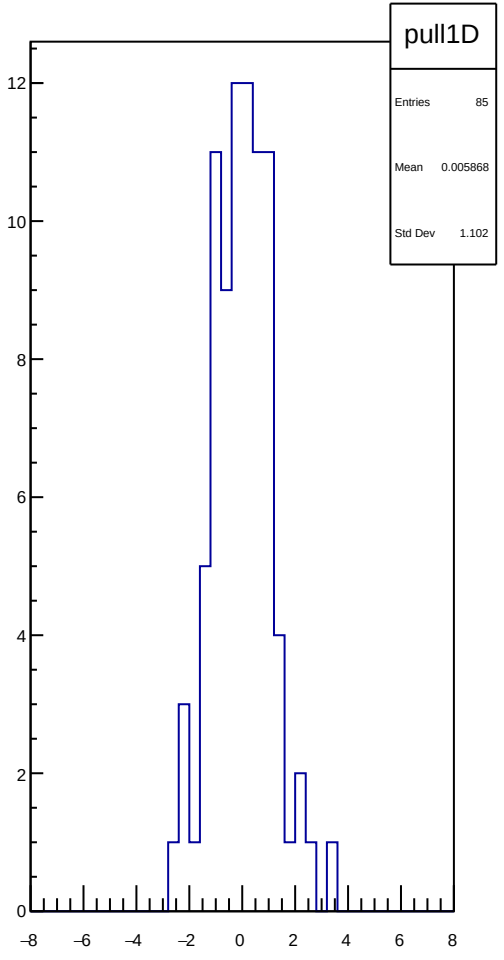

diff_bpm2i01Y_rms vs run
χ² / ndf 2.193e+04 / 84
p0 1100 ± 0.863
1400
1300
1200
1100
1000
900

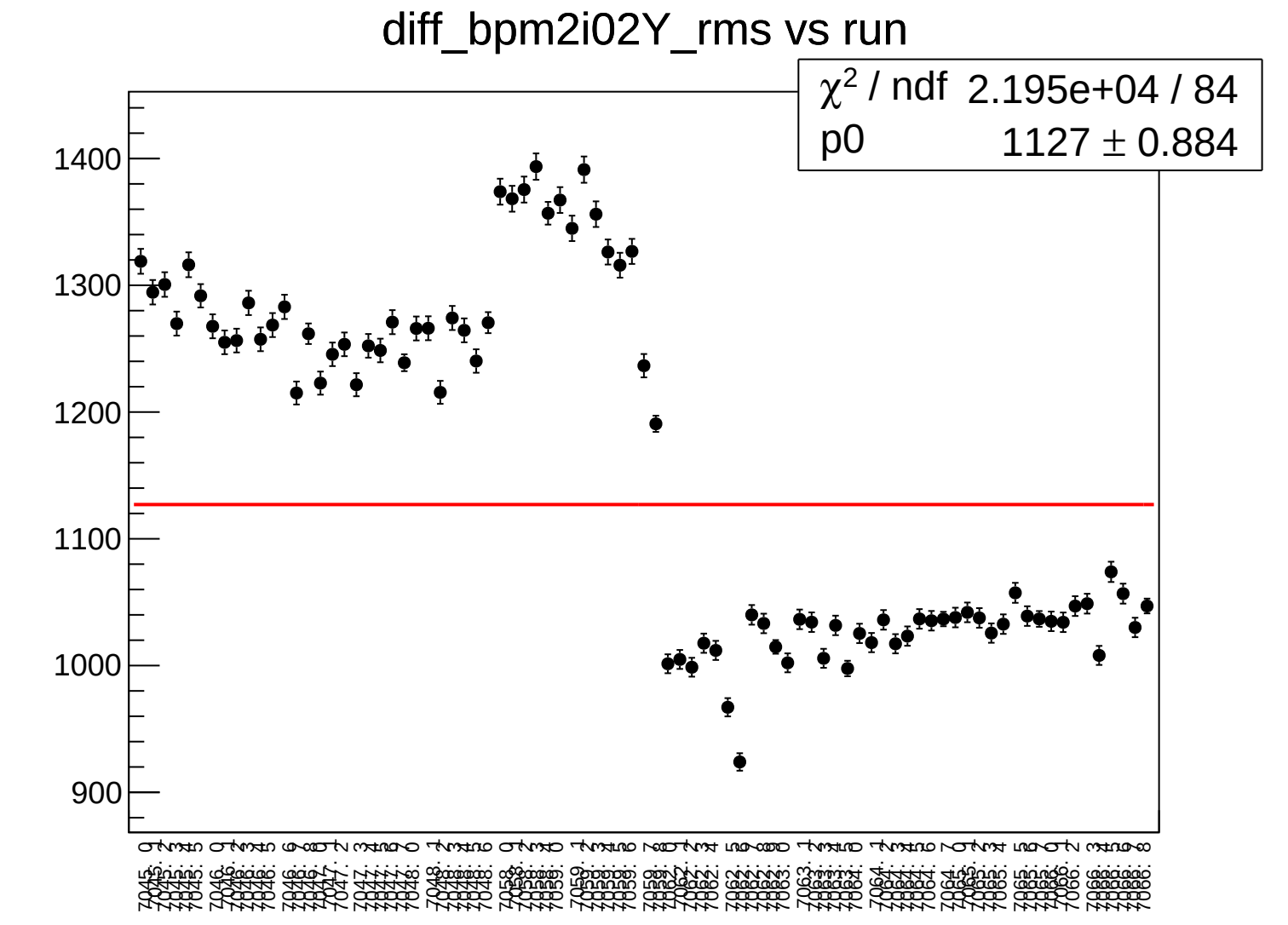

diff_bpm2i02X_mean vs run
χ^2 / ndf 89.75 / 84
p0 −9.228 ± 1.225
pull
Entries 85
Mean −80.66
Std Dev 0

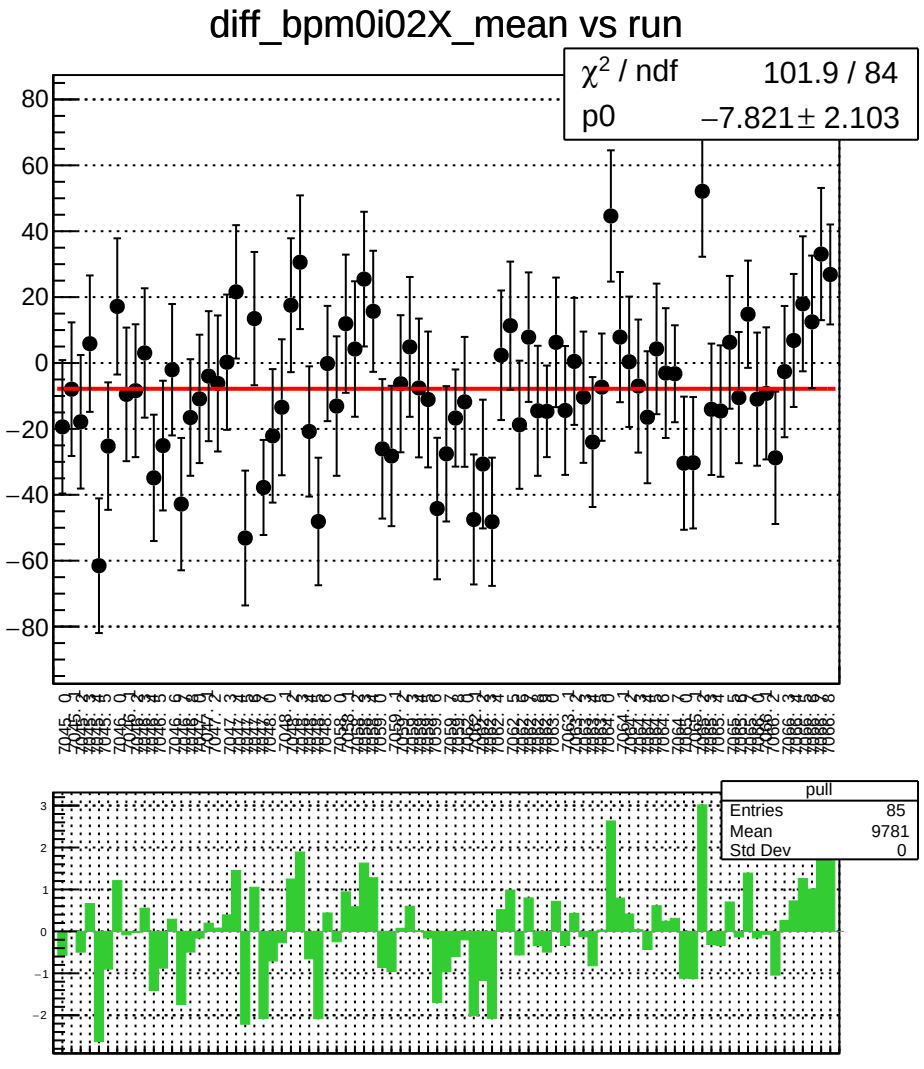

pull1D
Entries 85
Mean −0.01745
Std Dev 1.027

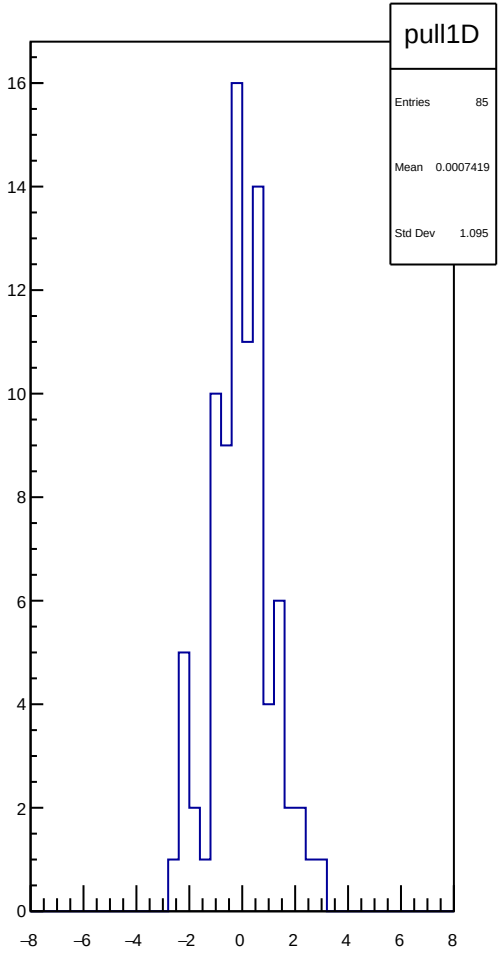

diff_bpm2i02X_rms vs run
χ² / ndf 2.337e+04 / 84
p0 1103 ± 0.8659
1400
1300
1200
1100
1000
900

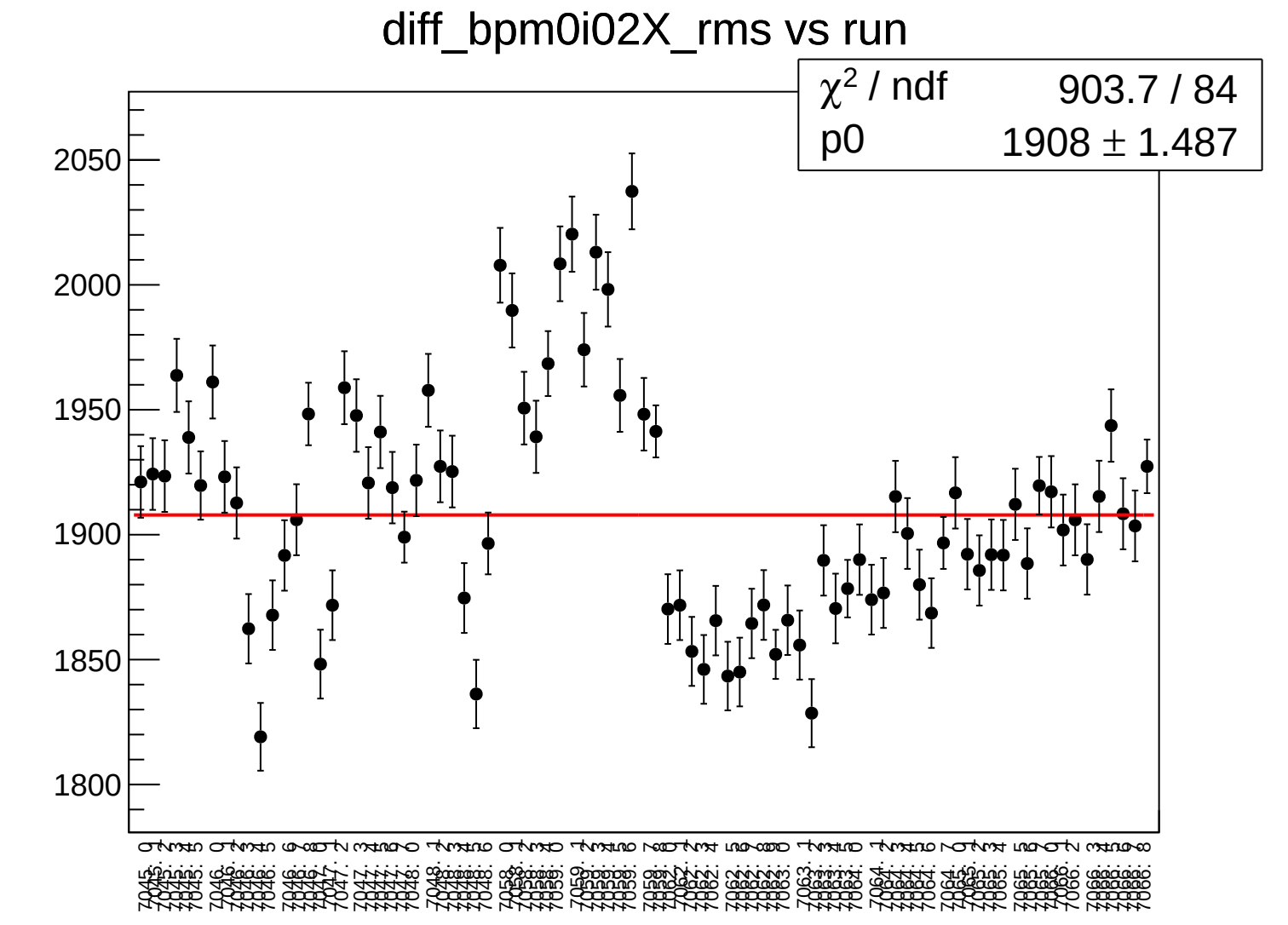

diff_bpm2i02Y_mean vs run
χ² / ndf 103.2 / 84
p0 20.05 ± 1.25
pull
Entries 85
Mean 201.7
Std Dev 0

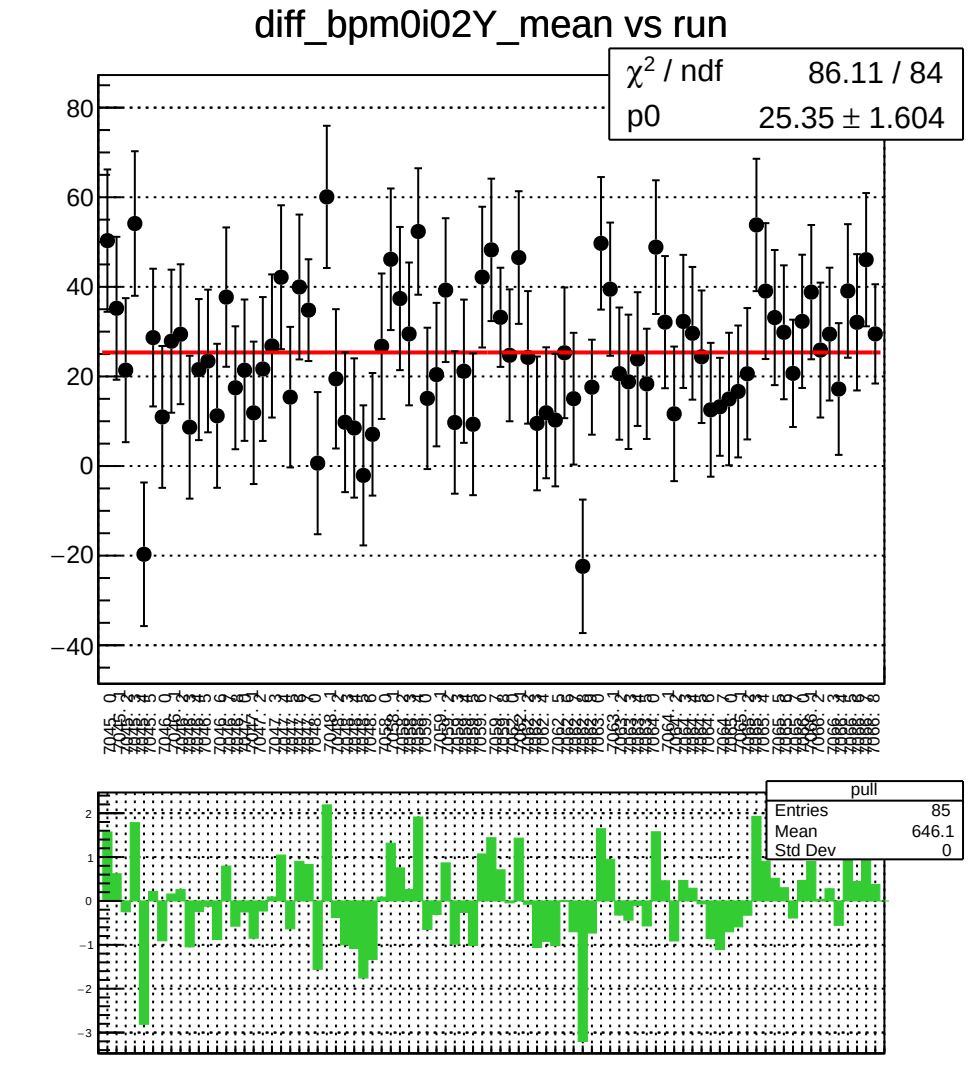

pull1D
Entries 85
Mean 0.005868
Std Dev 1.102

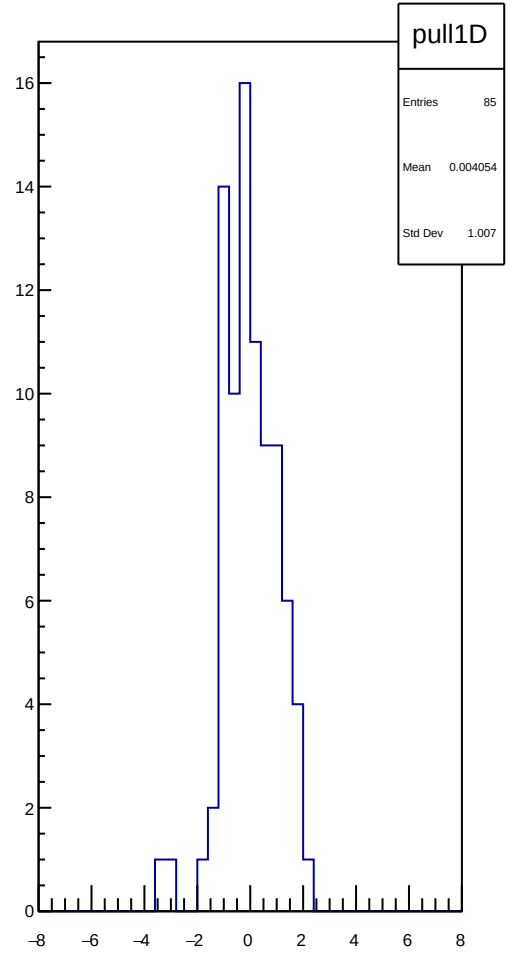

diff_bpm2i02Y_rms vs run
χ² / ndf 2.195e+04 / 84
p0 1127 ± 0.884
1400
1300
1200
1100
1000
900

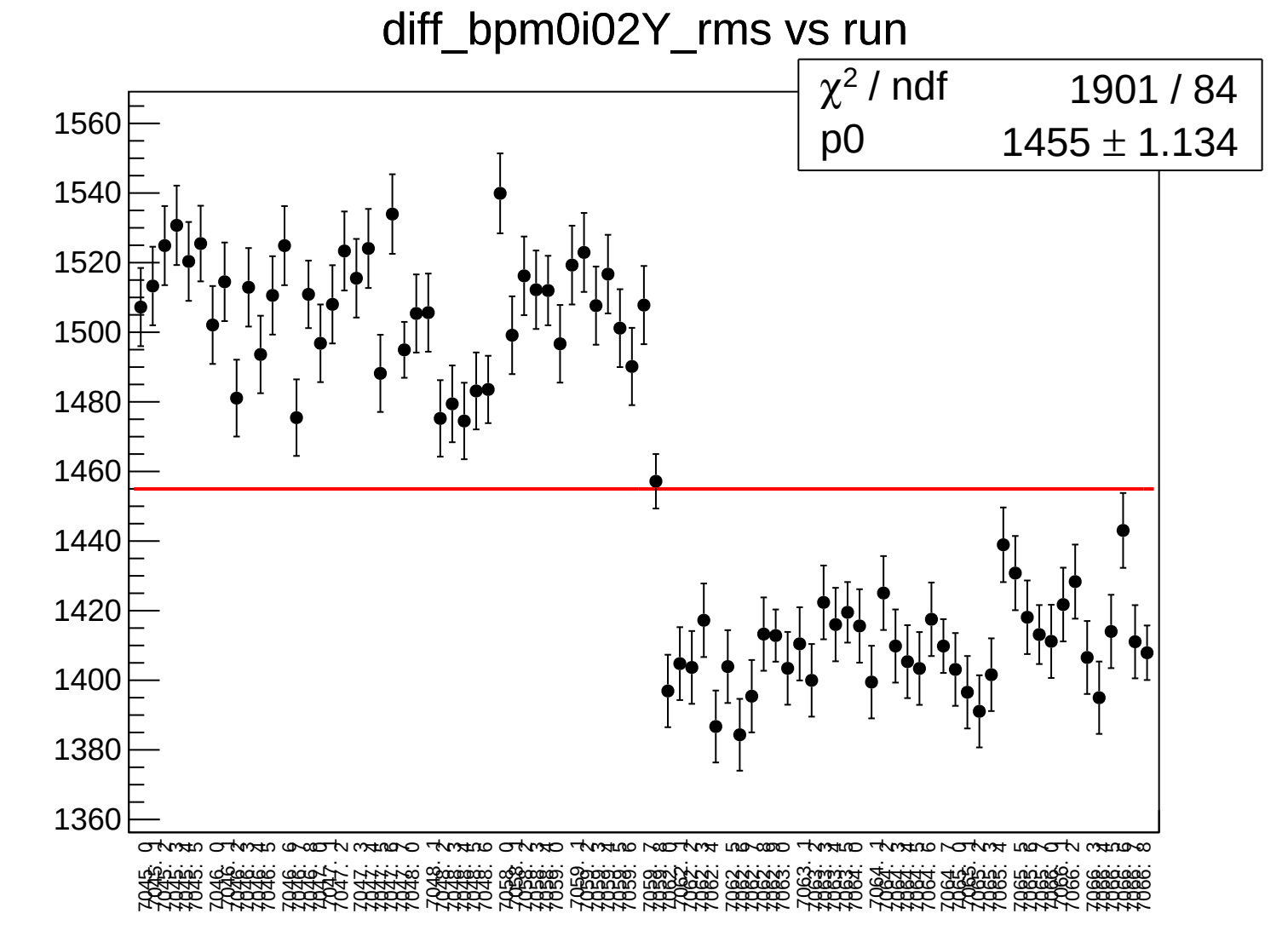

diff_bpm0i02X_mean vs run
χ² / ndf 101.9 / 84
p0 −7.821± 2.103
pull
Entries 85
Mean 9781
Std Dev 0

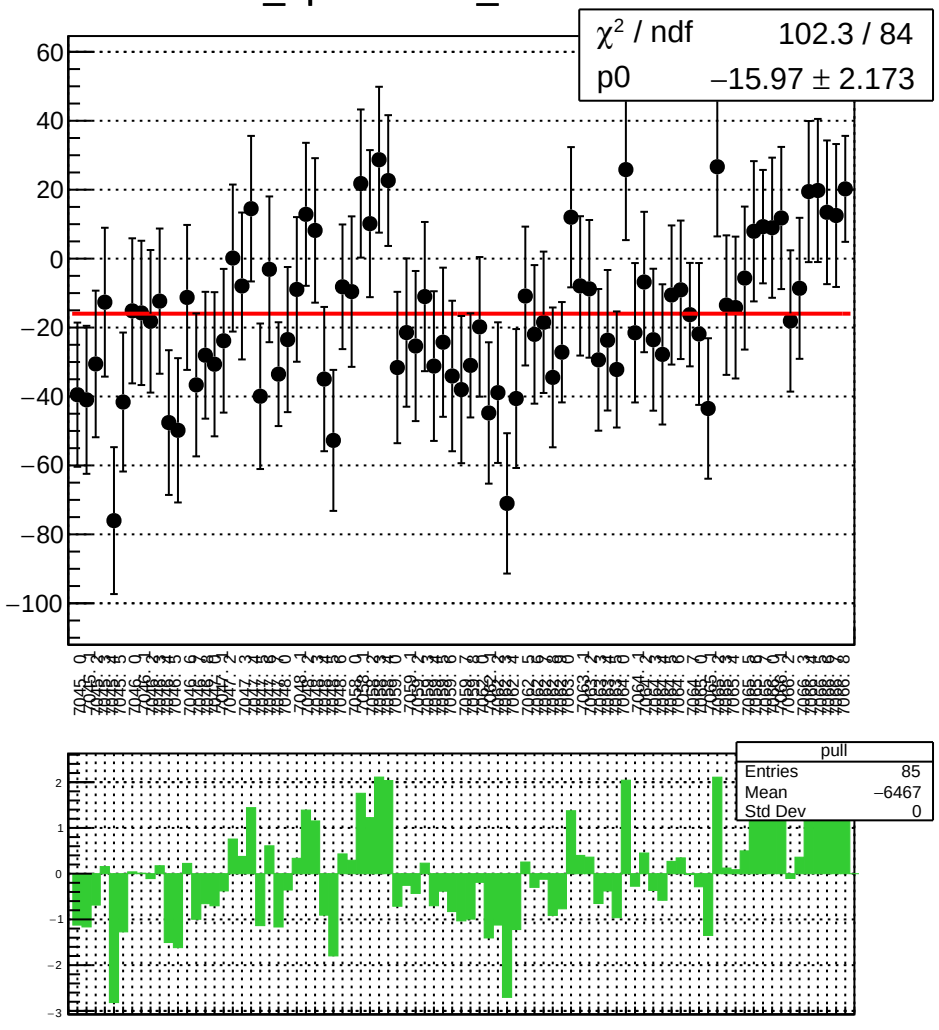

pull1D
Entries 85
Mean 0.0007419
Std Dev 1.095

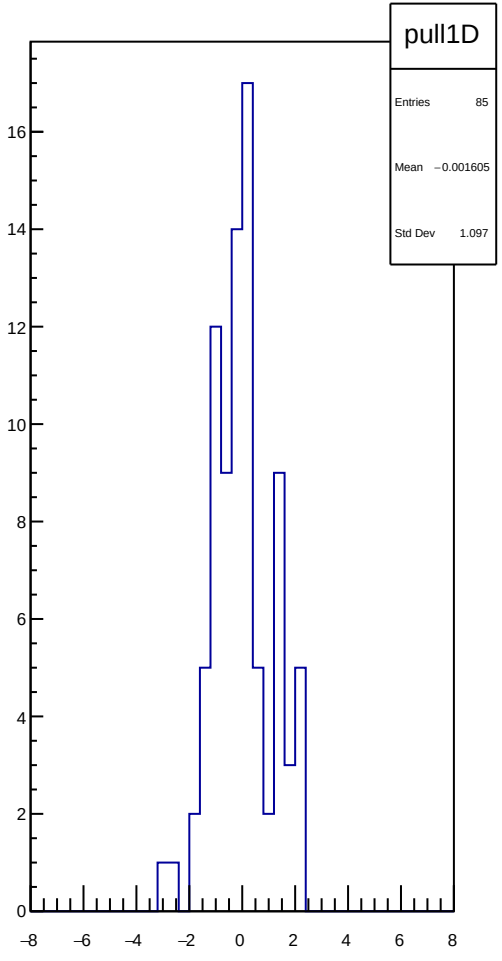

diff_bpm0i02X_rms vs run
χ² / ndf 903.7 / 84
p0 1908 ± 1.487
2050
2000
1950
1900
1850
1800

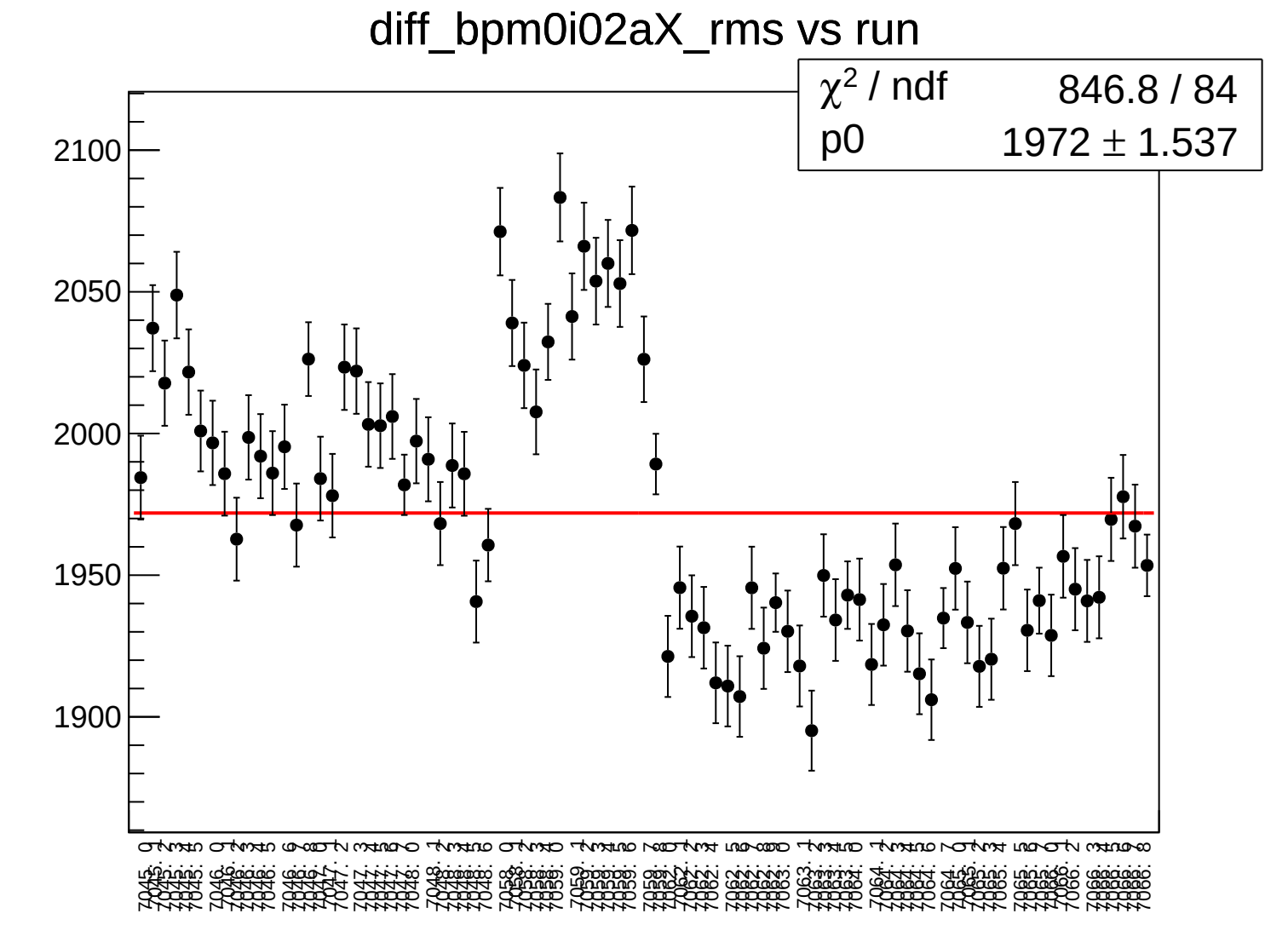

diff_bpm0i02Y_mean vs run
χ^2 / ndf 86.11 / 84
p0 25.35 ± 1.604
pull
Entries 85
Mean 646.1
Std Dev 0

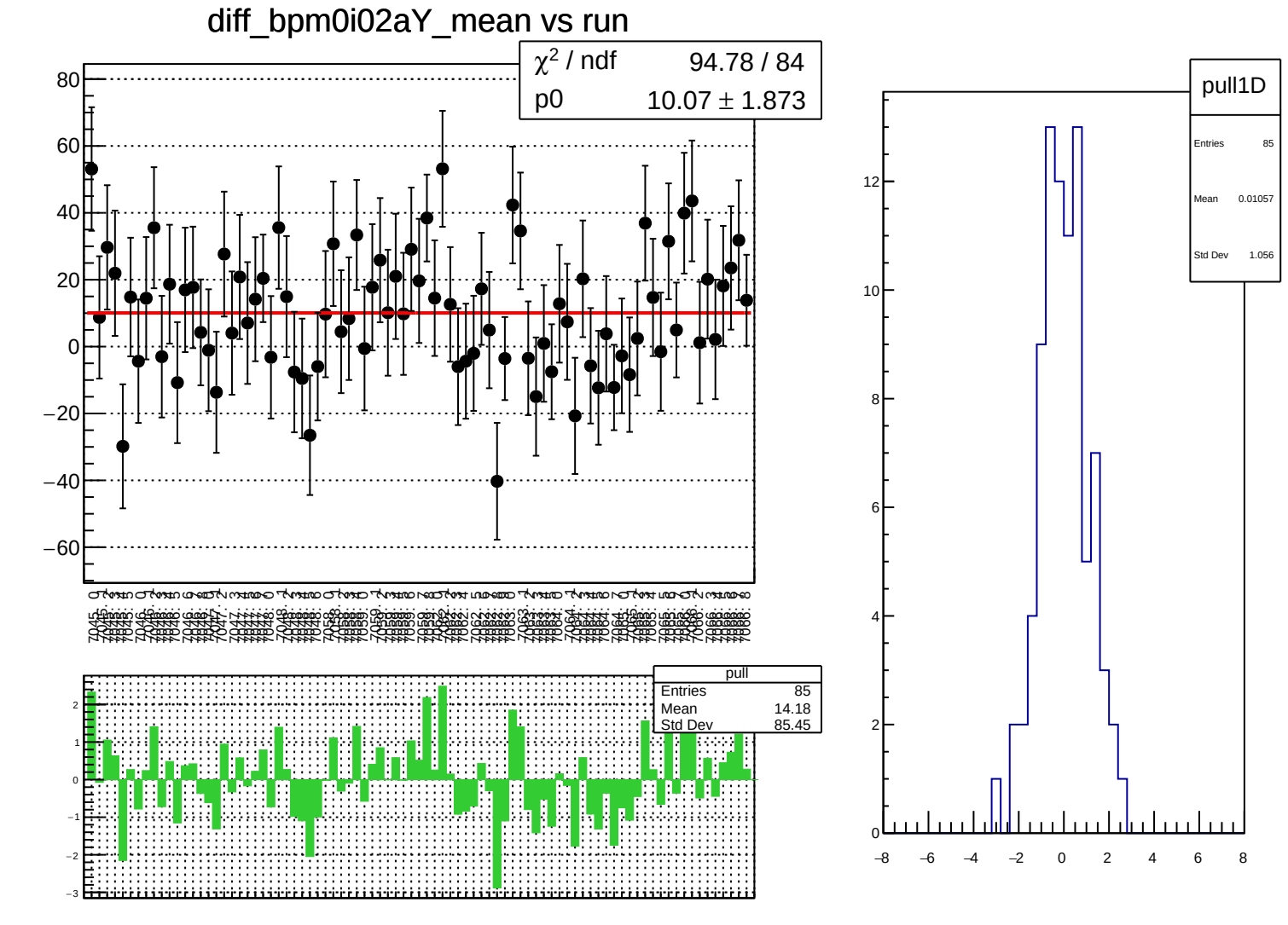

pull1D
Entries 85
Mean 0.004054
Std Dev 1.007

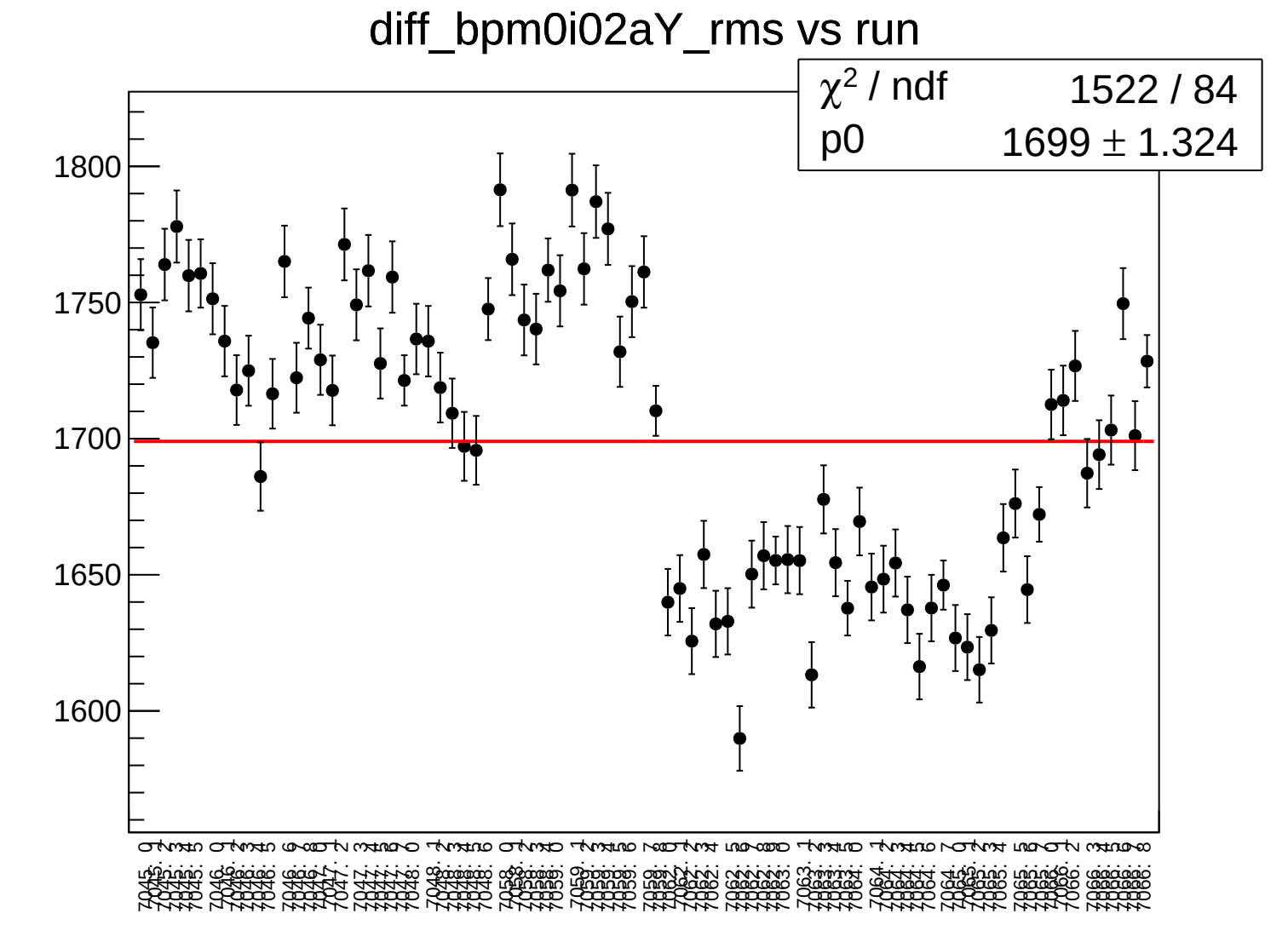

diff_bpm0i02Y_rms vs run
χ² / ndf 1901 / 84
p0 1455 ± 1.134
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360

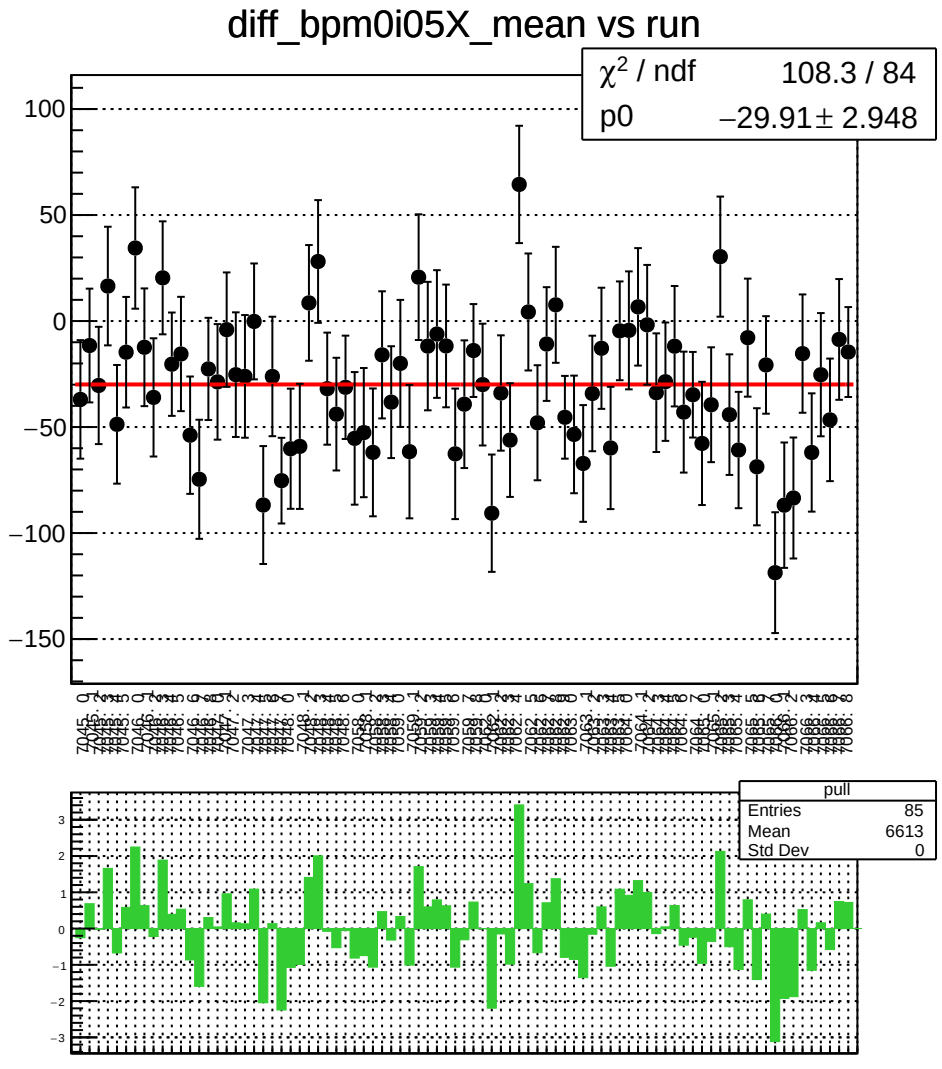

diff_bpm0i02aX_mean vs run
χ² / ndf 102.3 / 84
p0 −15.97 ± 2.173
pull
Entries 85
Mean −6467
Std Dev 0

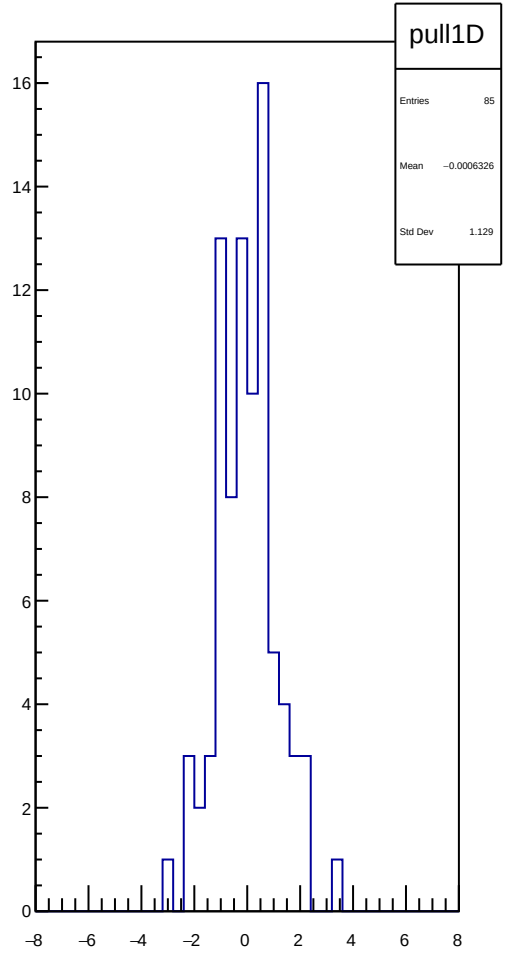

pull1D
Entries 85
Mean −0.001605
Std Dev 1.097

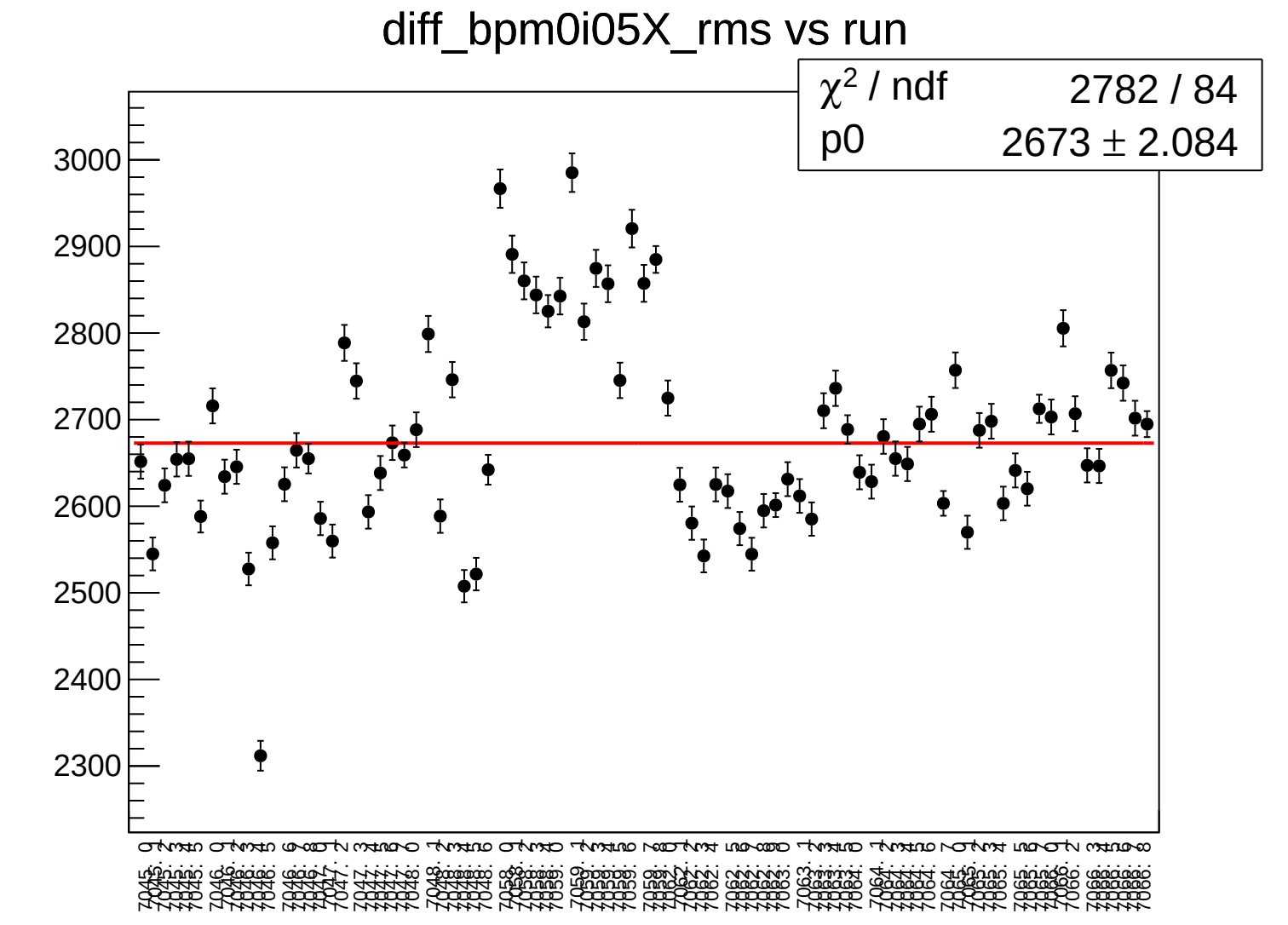

diff_bpm0i02aX_rms vs run
χ² / ndf 846.8 / 84
p0 1972 ± 1.537
2100
2050
2000
1950
1900

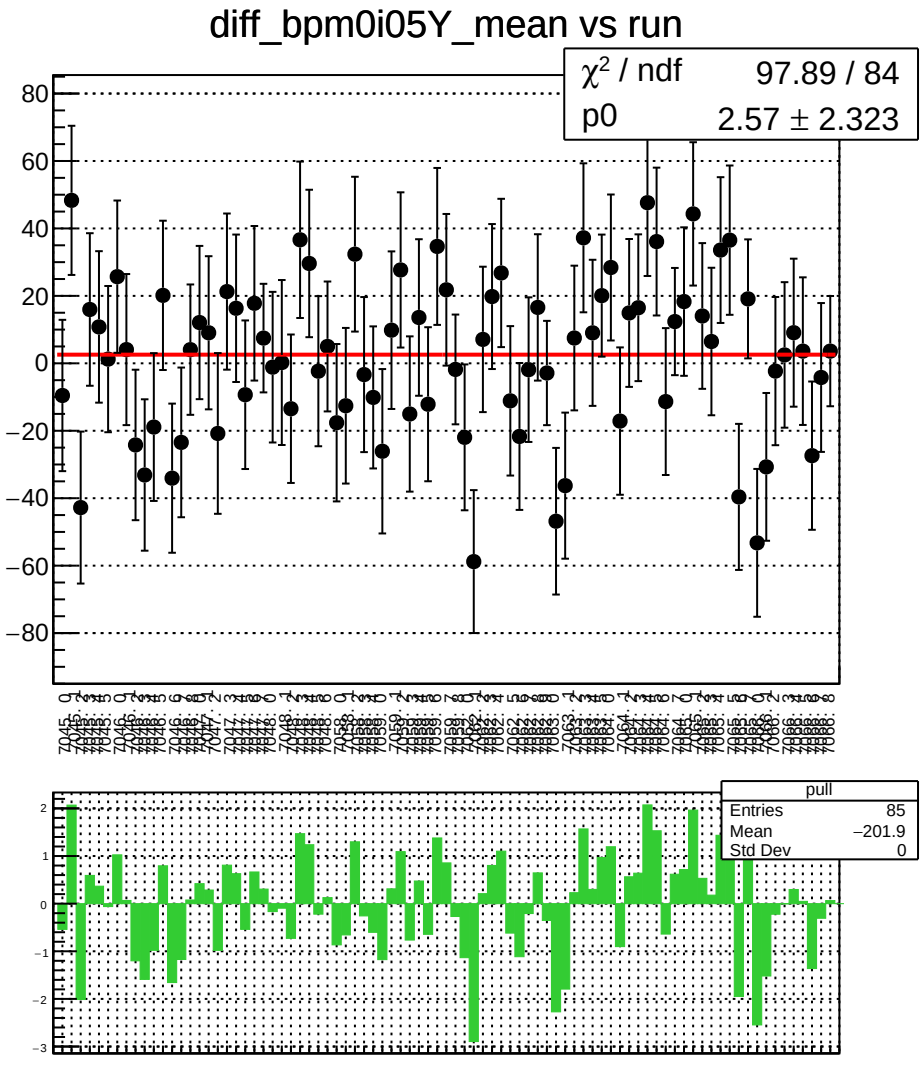

diff_bpm0i02aY_mean vs run
χ² / ndf 94.78 / 84
p0 10.07 ± 1.873
pull
Entries 85
Mean 14.18
Std Dev 85.45
pull1D
Entries 85
Mean 0.01057
Std Dev 1.056

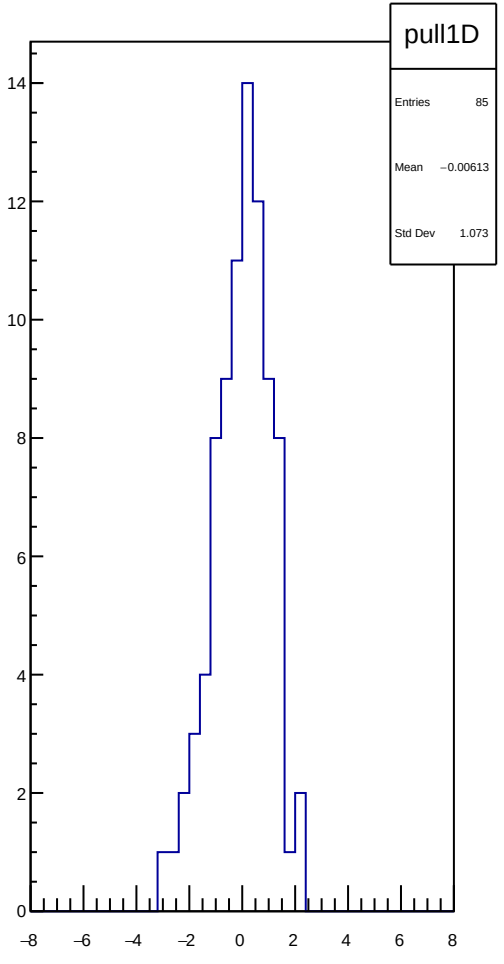

diff_bpm0i02aY_rms vs run
χ² / ndf 1522 / 84
p0 1699 ± 1.324
1800
1750
1700
1650
1600

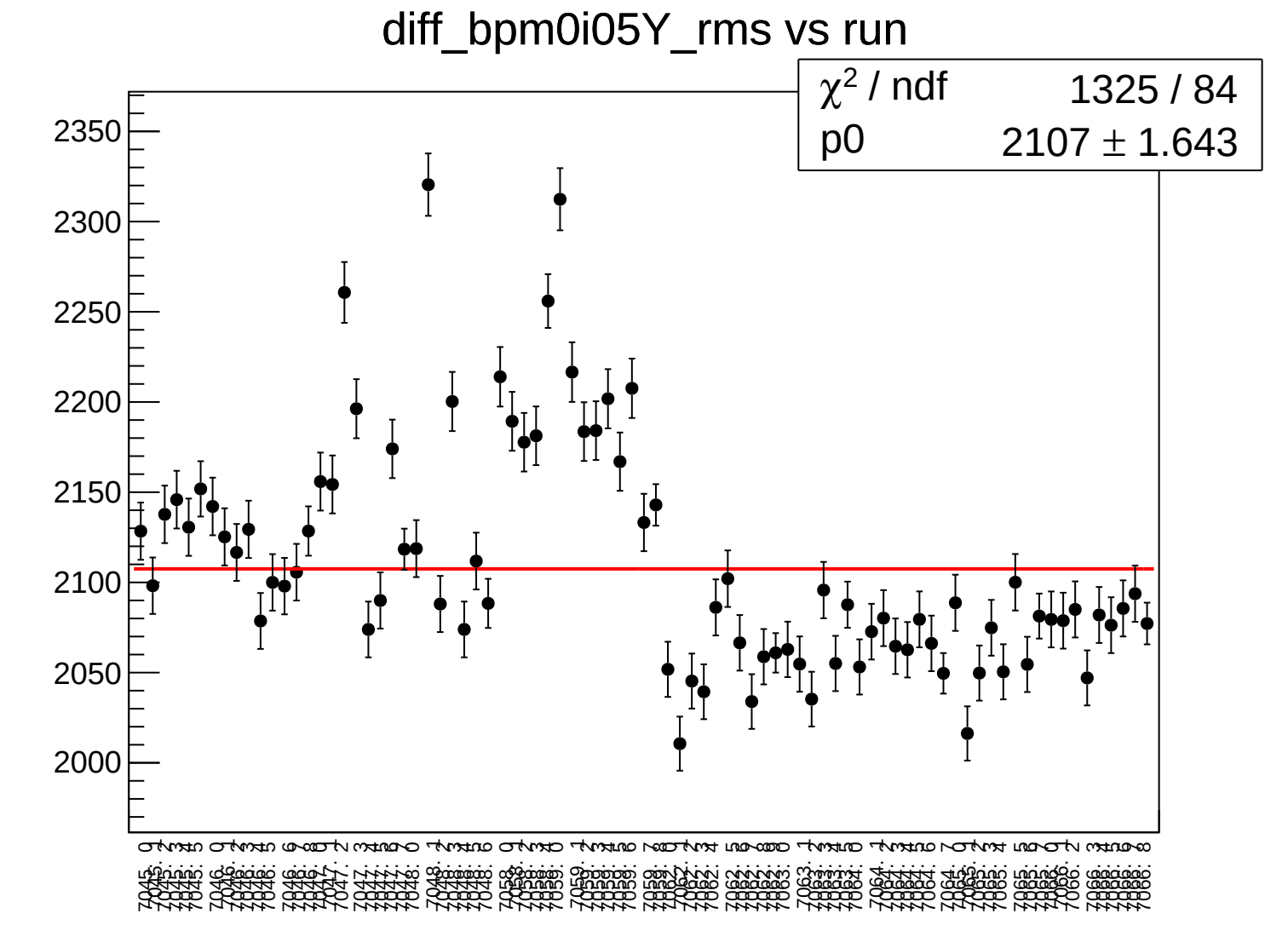

diff_bpm0i05X_mean vs run
χ² / ndf 108.3 / 84
p0 −29.91 ± 2.948
100
50
0
−50
−100
−150
pull
Entries 85
Mean 6613
Std Dev 0
3
2
1
0
−1
−2
−3

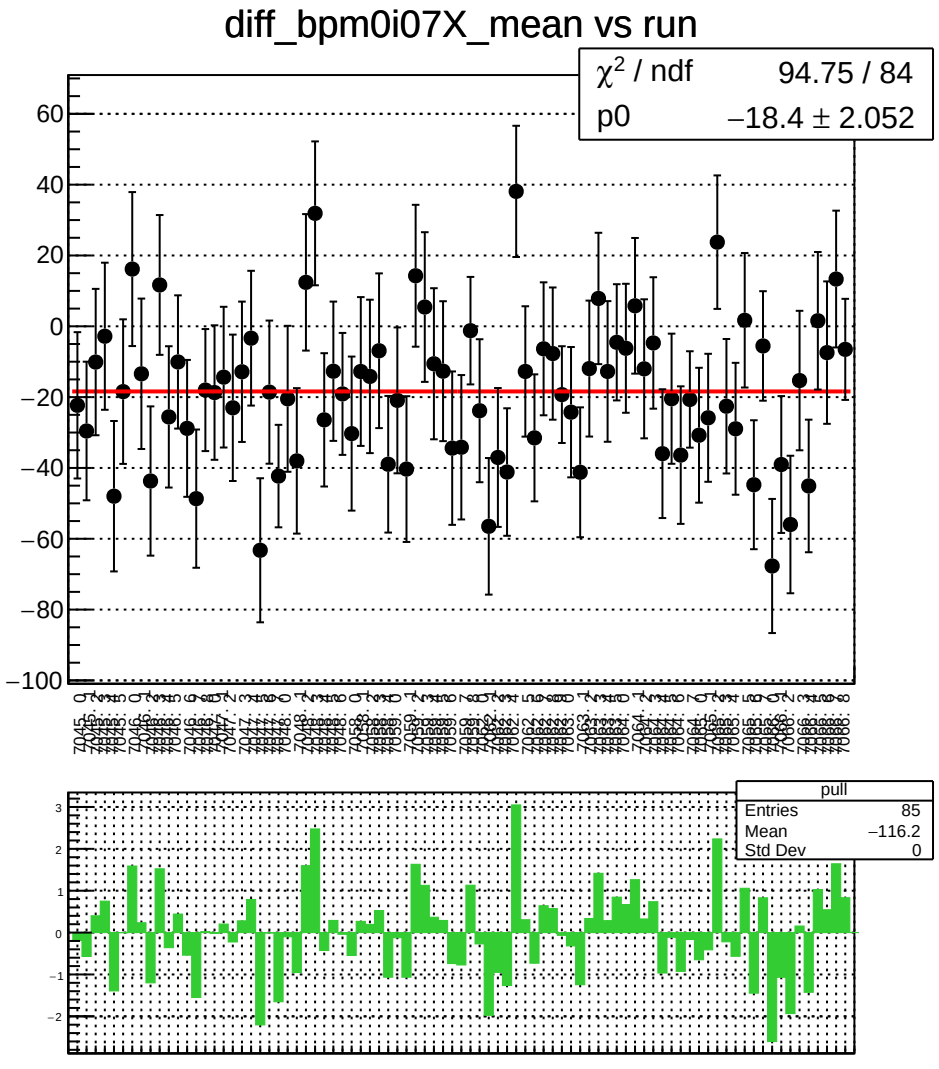

pull1D
Entries 85
Mean −0.0006326
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

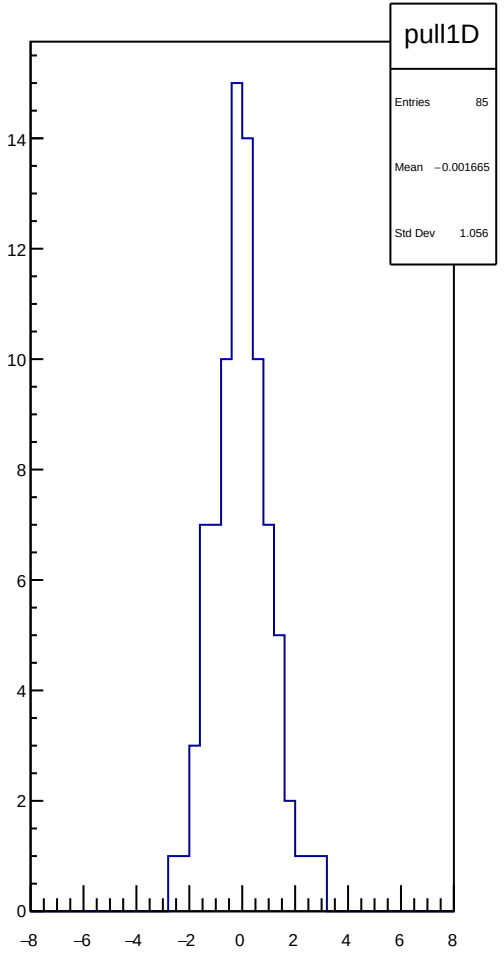

diff_bpm0i05X_rms vs run
χ² / ndf 2782 / 84
p0 2673 ± 2.084
3000
2900
2800
2700
2600
2500
2400
2300

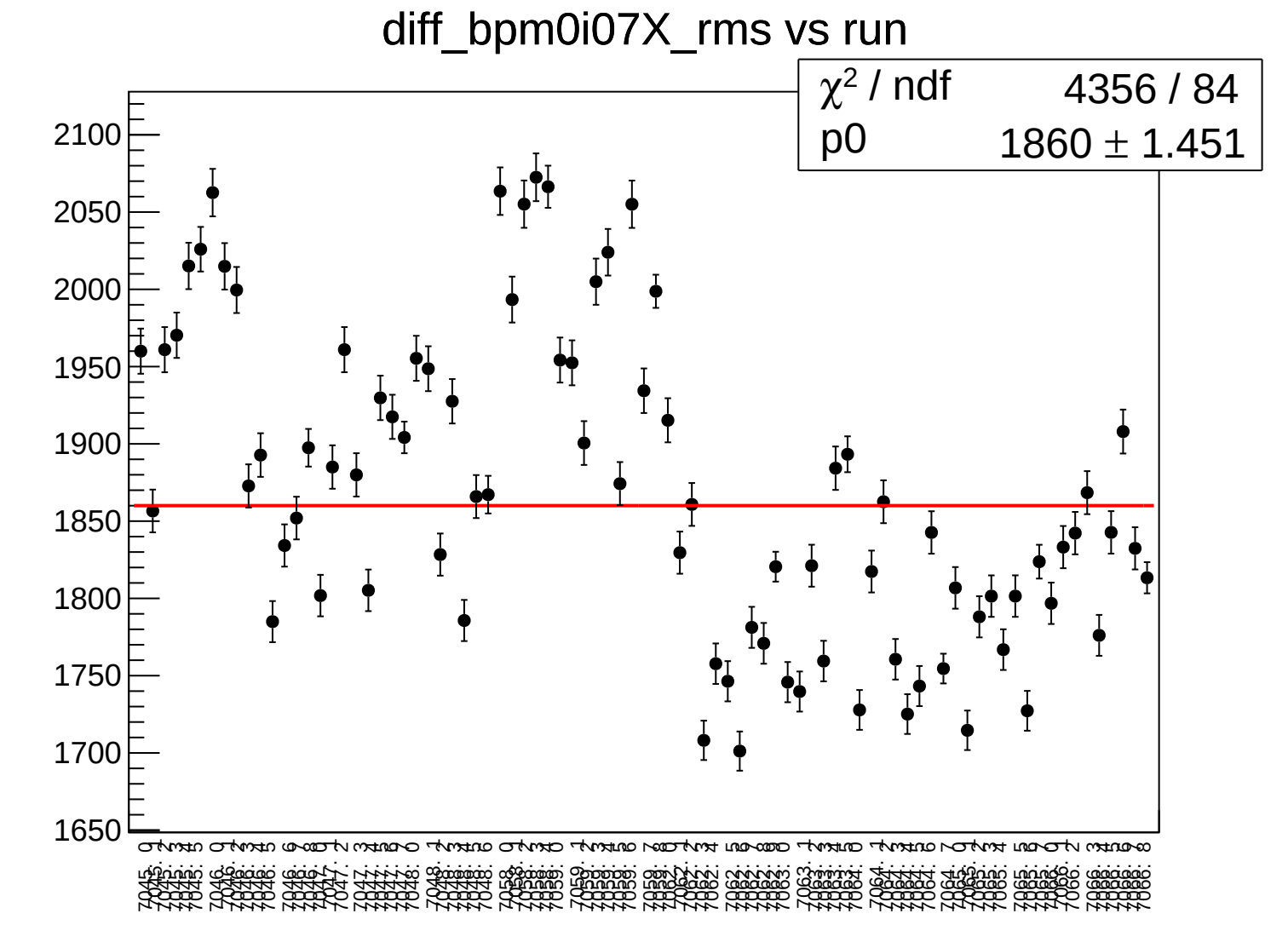

diff_bpm0i05Y_mean vs run
χ² / ndf 97.89 / 84
p0 2.57 ± 2.323
pull
Entries 85
Mean −201.9
Std Dev 0

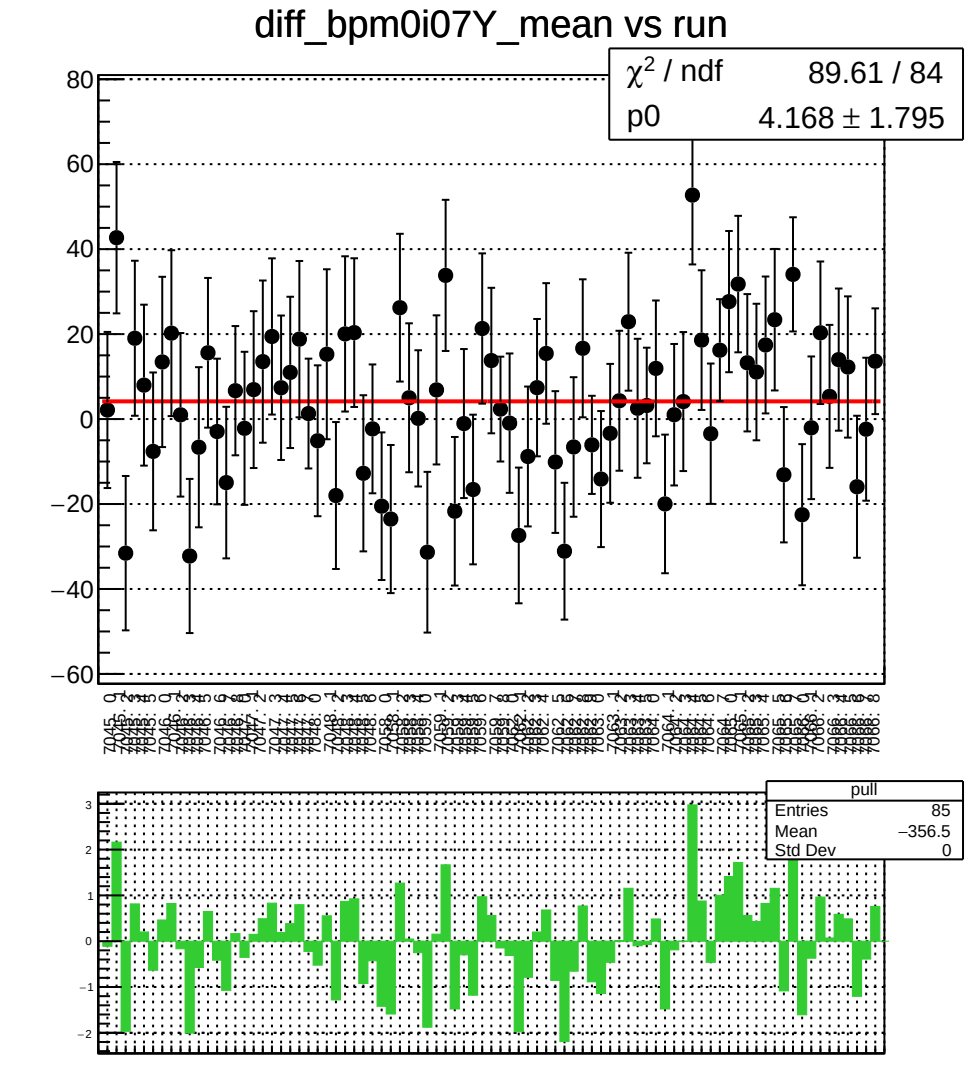

pull1D
Entries 85
Mean −0.00613
Std Dev 1.073

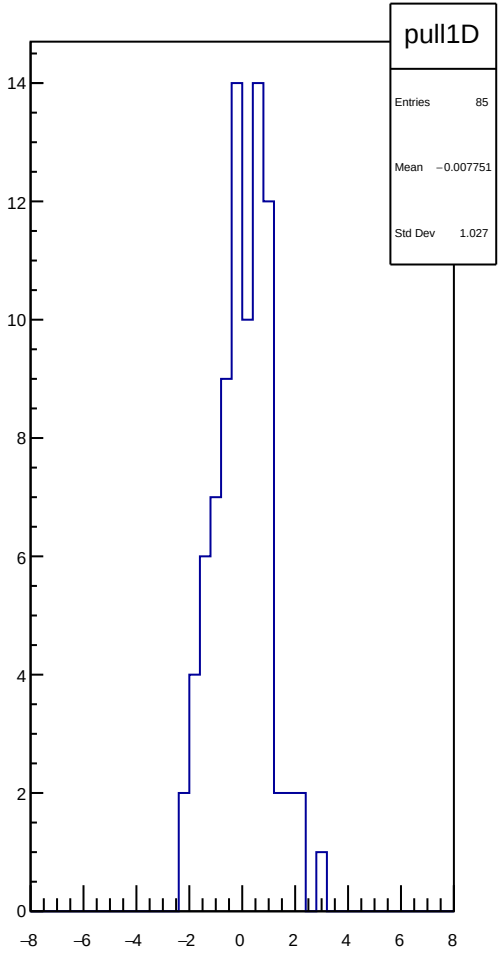

diff_bpm0i05Y_rms vs run
χ^2 / ndf 1325 / 84
p0 2107 ± 1.643
2350
2300
2250
2200
2150
2100
2050
2000

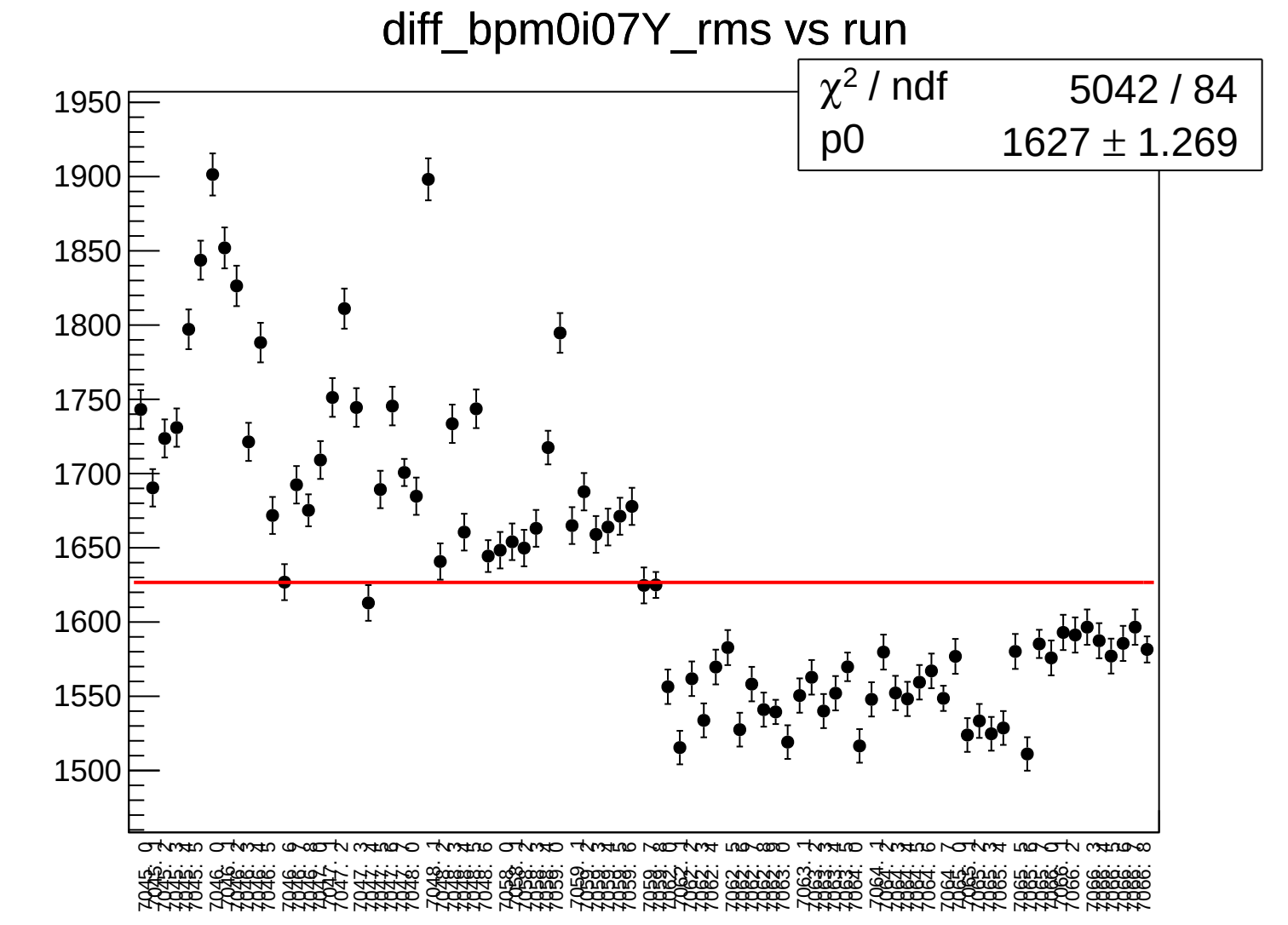

diff_bpm0i07X_mean vs run
χ^2 / ndf 94.75 / 84
p0 −18.4 ± 2.052
pull
Entries 85
Mean −116.2
Std Dev 0

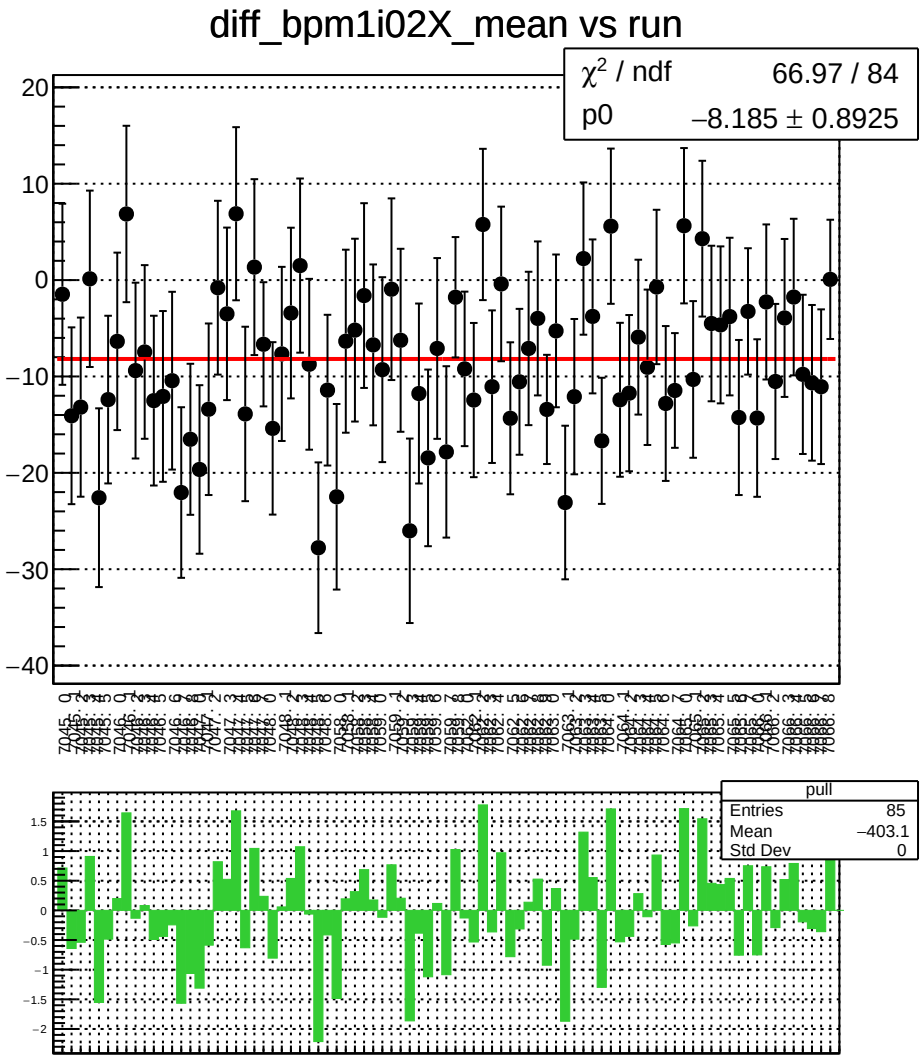

pull1D
Entries 85
Mean −0.001665
Std Dev 1.056

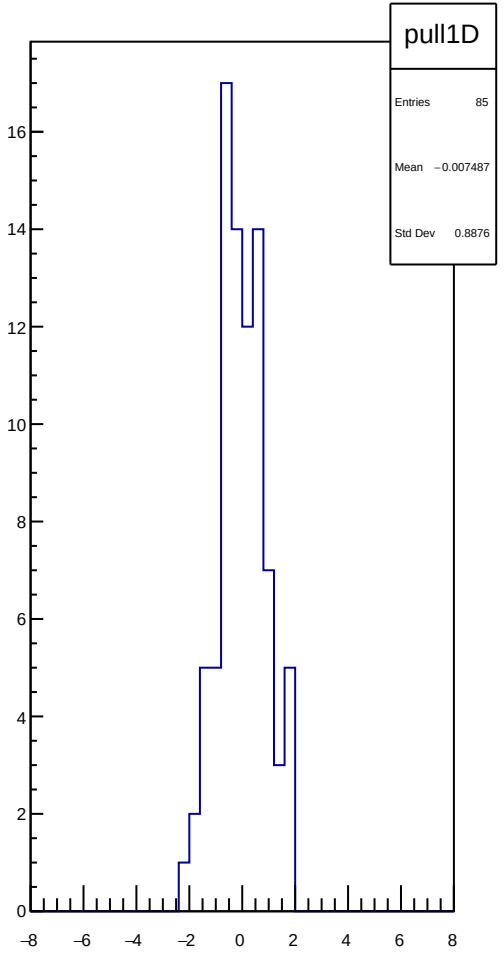

diff_bpm0i07X_rms vs run
χ² / ndf 4356 / 84
p0 1860 ± 1.451
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

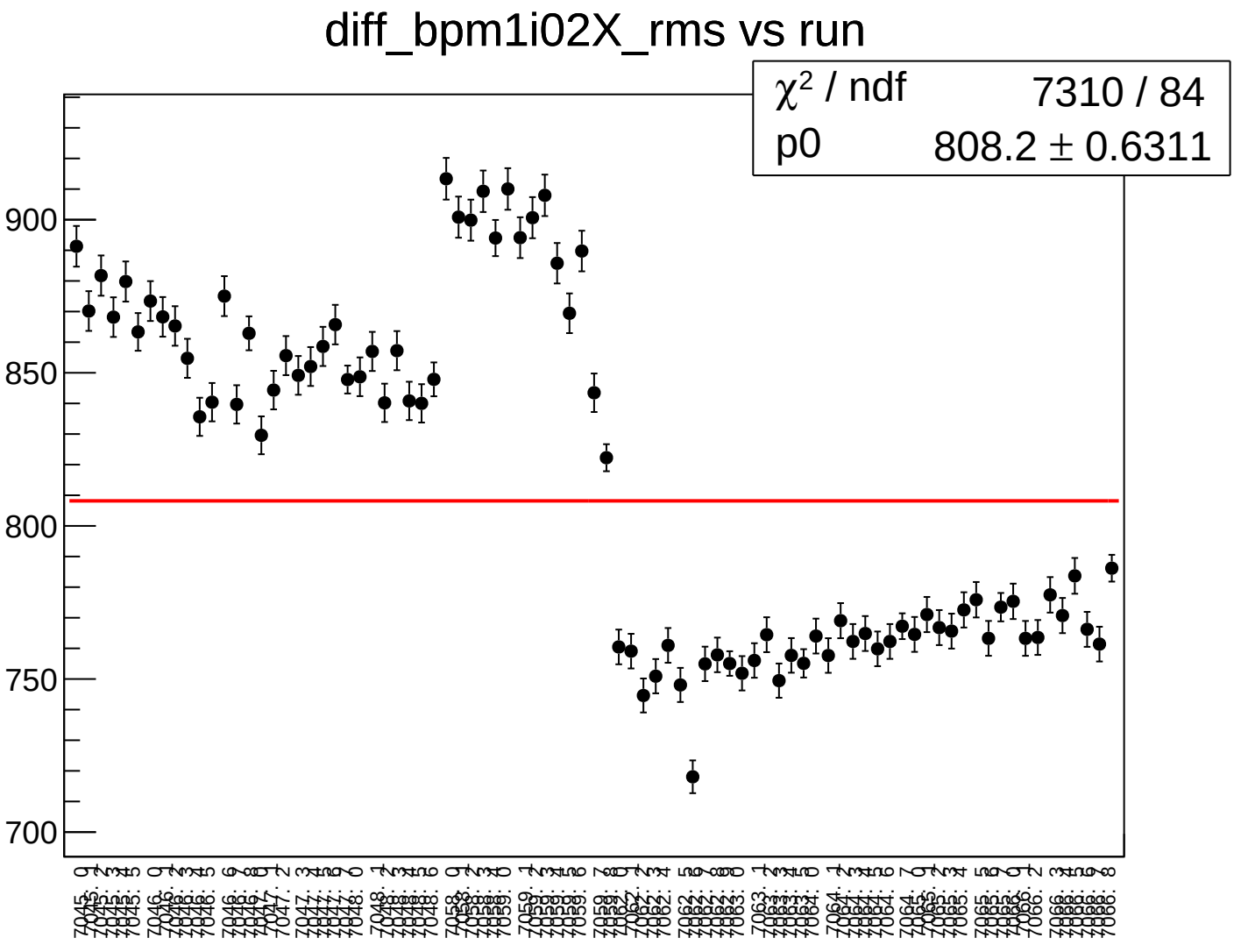

diff_bpm0i07Y_mean vs run
χ² / ndf 89.61 / 84
p0 4.168 ± 1.795
pull
Entries 85
Mean −356.5
Std Dev 0

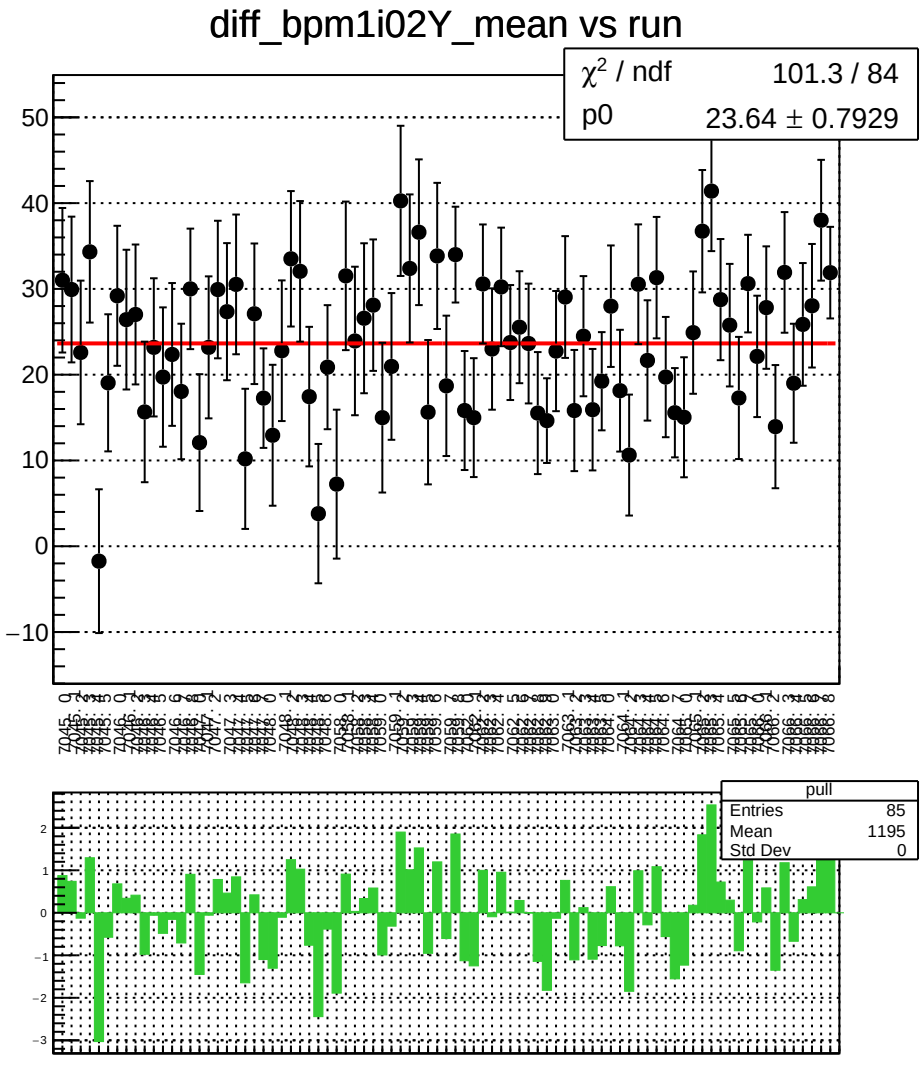

pull1D
Entries 85
Mean −0.007751
Std Dev 1.027

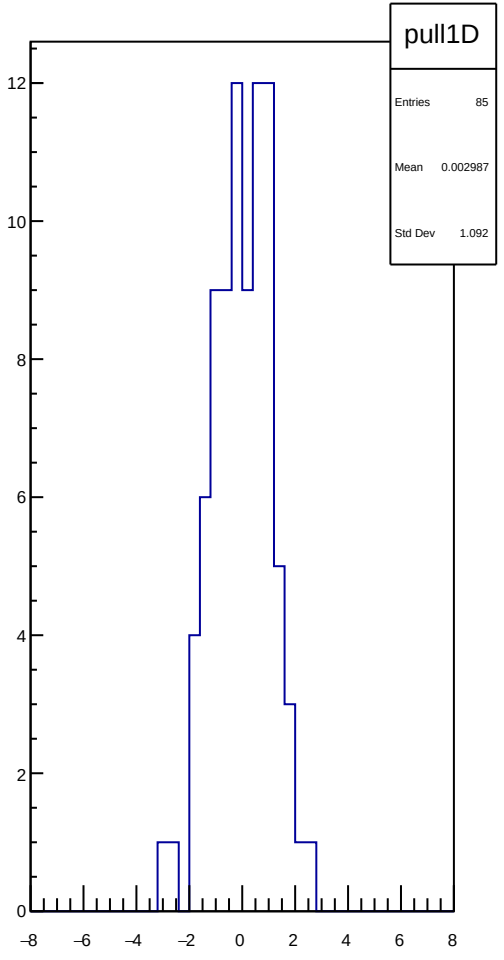

diff_bpm0i07Y_rms vs run
χ² / ndf 5042 / 84
p0 1627 ± 1.269
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

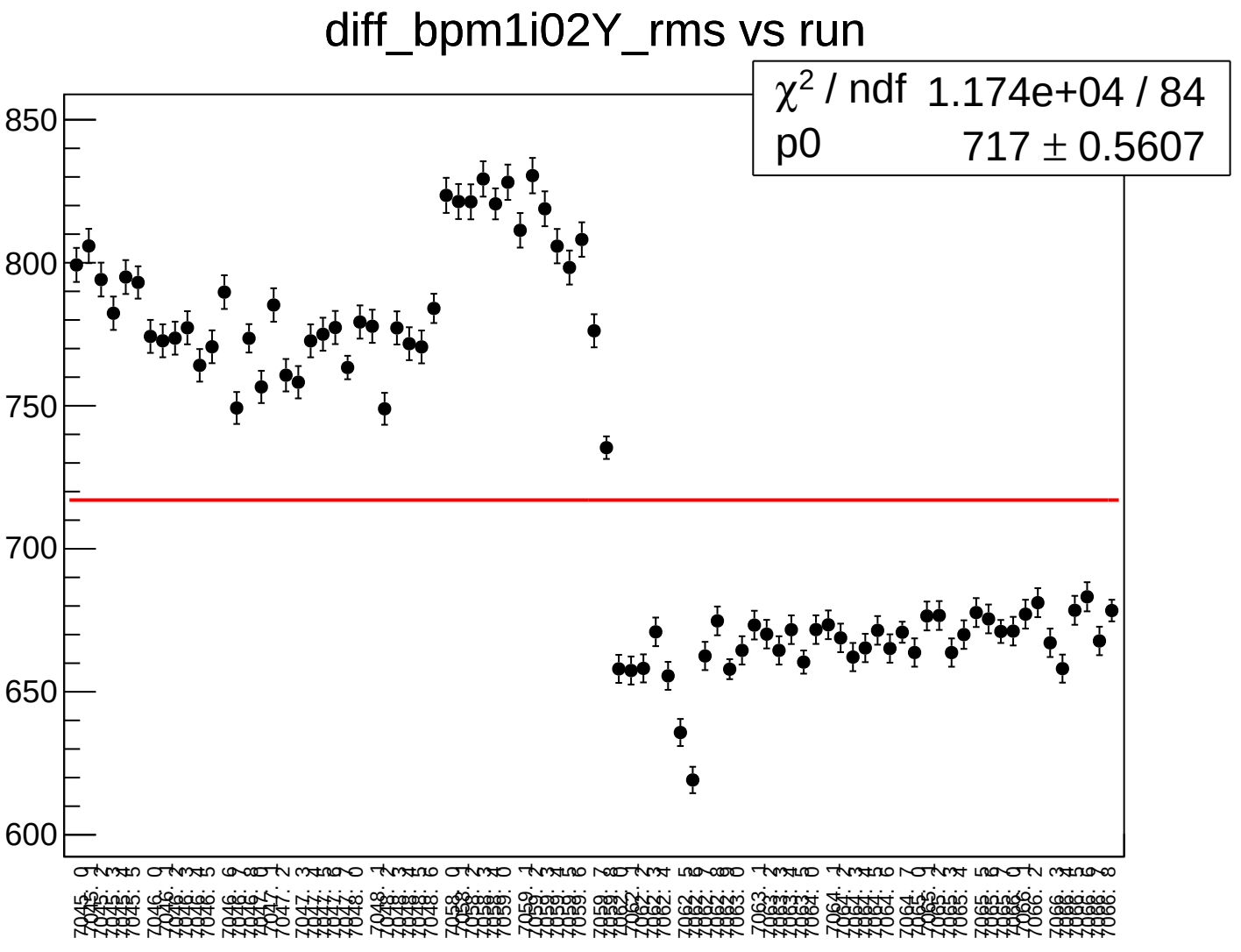

diff_bpm1i02X_mean vs run
χ² / ndf 66.97 / 84
p0 −8.185 ± 0.8925
pull
Entries 85
Mean −403.1
Std Dev 0

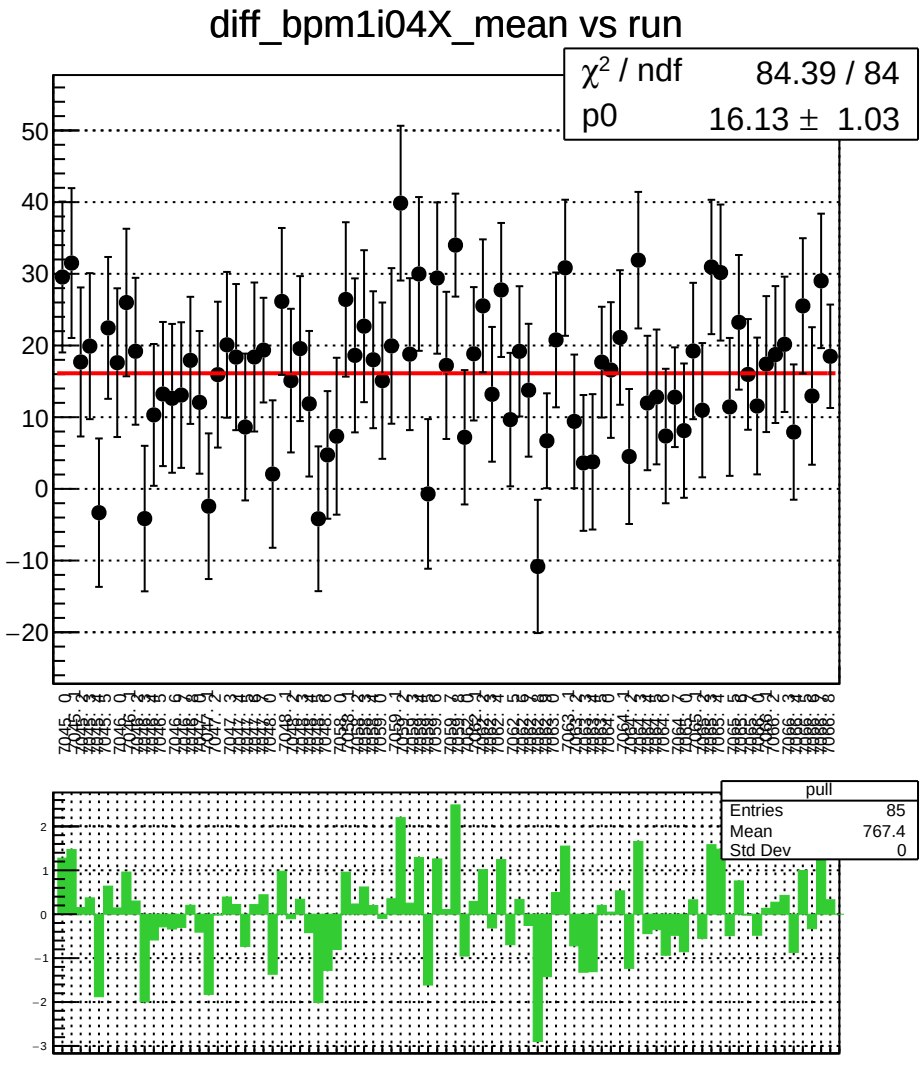

pull1D
Entries 85
Mean −0.007487
Std Dev 0.8876

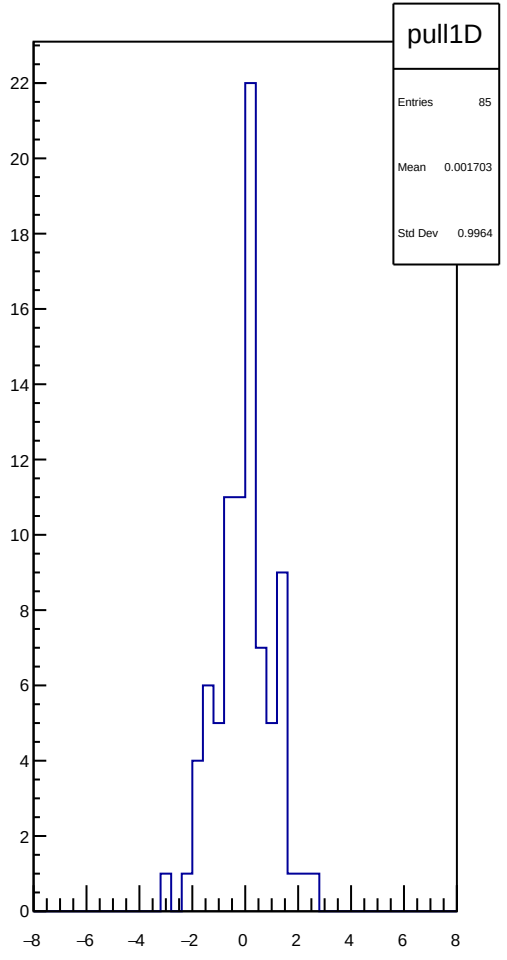

diff_bpm1i02X_rms vs run
χ² / ndf 7310 / 84
p0 808.2 ± 0.6311
900
850
800
750
700

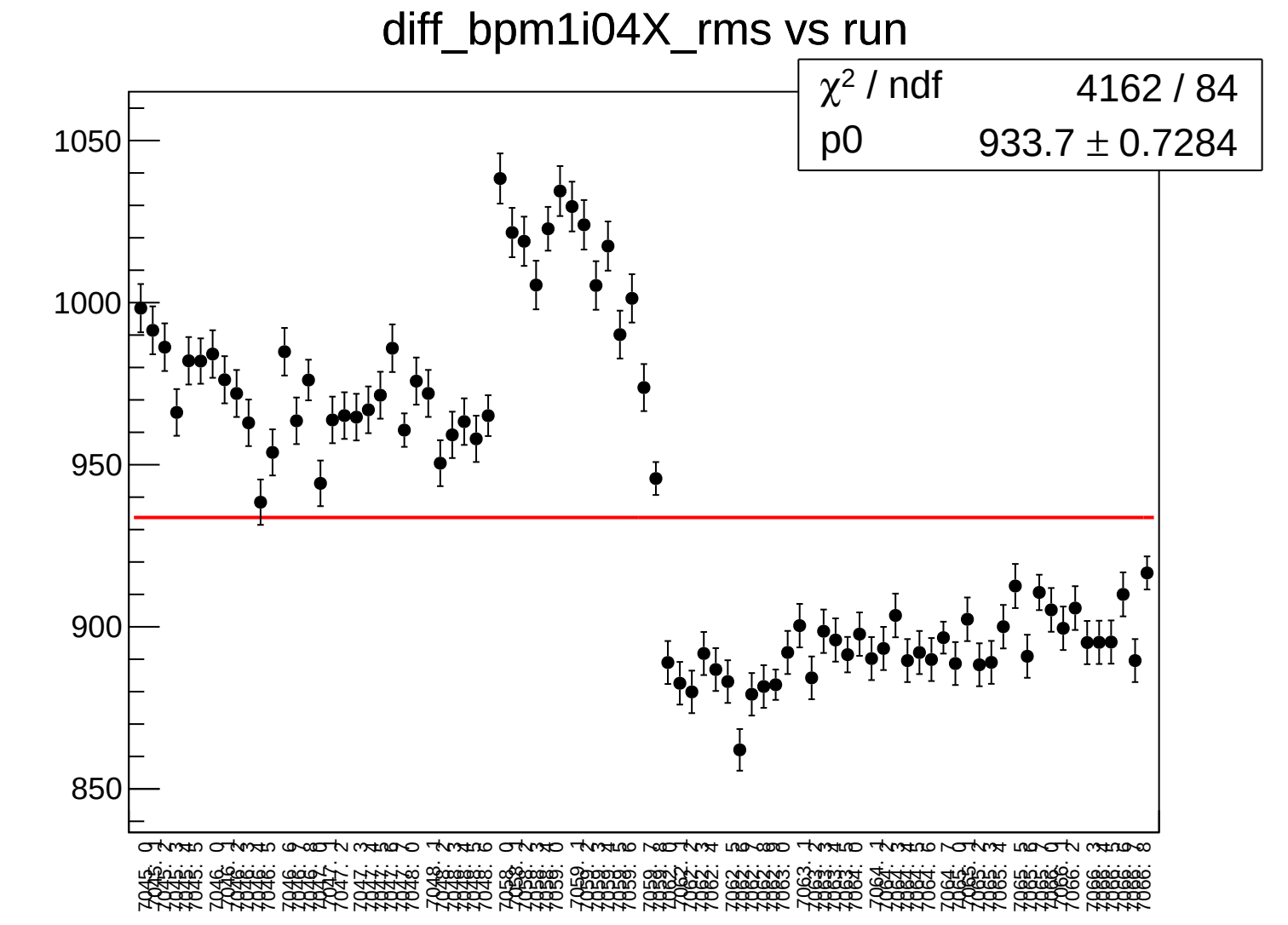

diff_bpm1i02Y_mean vs run
χ² / ndf 101.3 / 84
p0 23.64 ± 0.7929
pull
Entries 85
Mean 1195
Std Dev 0

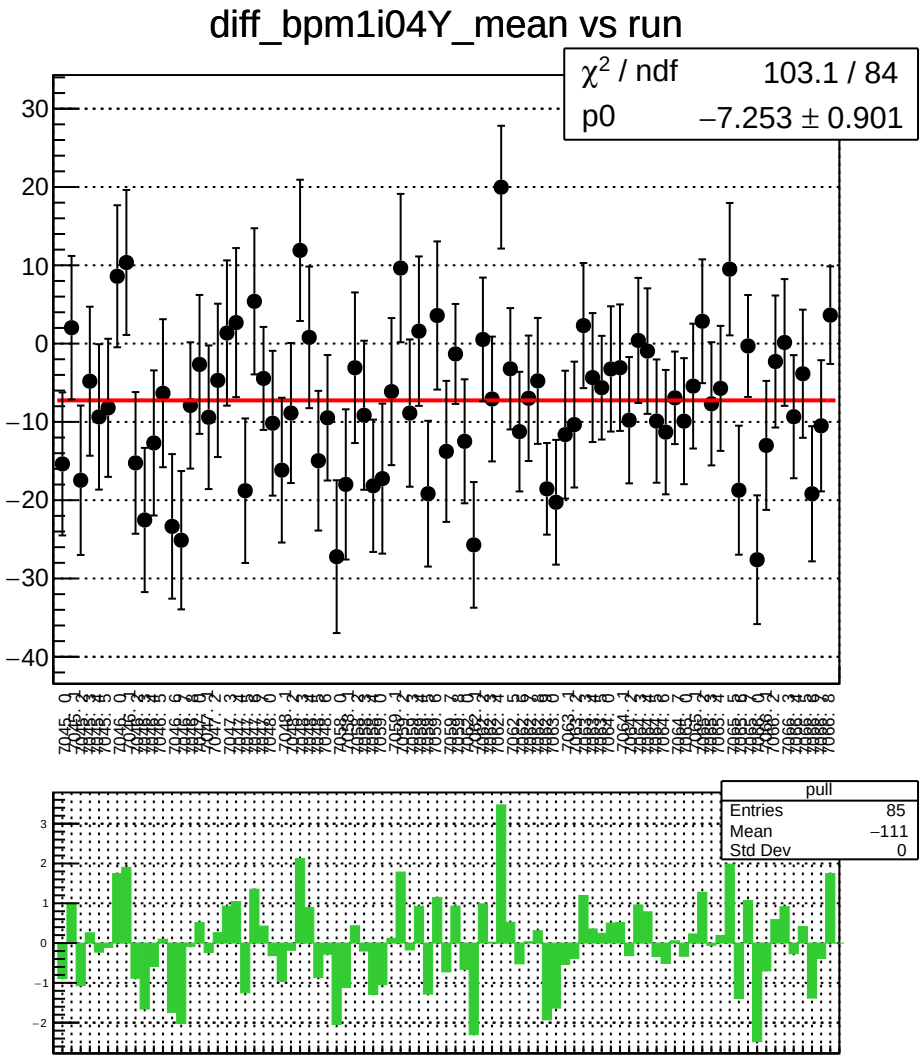

pull1D
Entries 85
Mean 0.002987
Std Dev 1.092

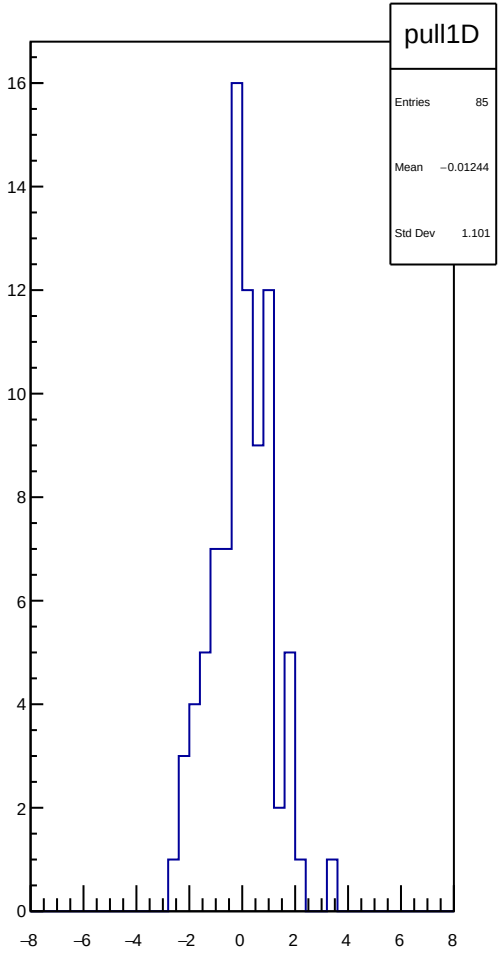

diff_bpm1i02Y_rms vs run
χ² / ndf 1.174e+04 / 84
p0 717 ± 0.5607
850
800
750
700
650
600

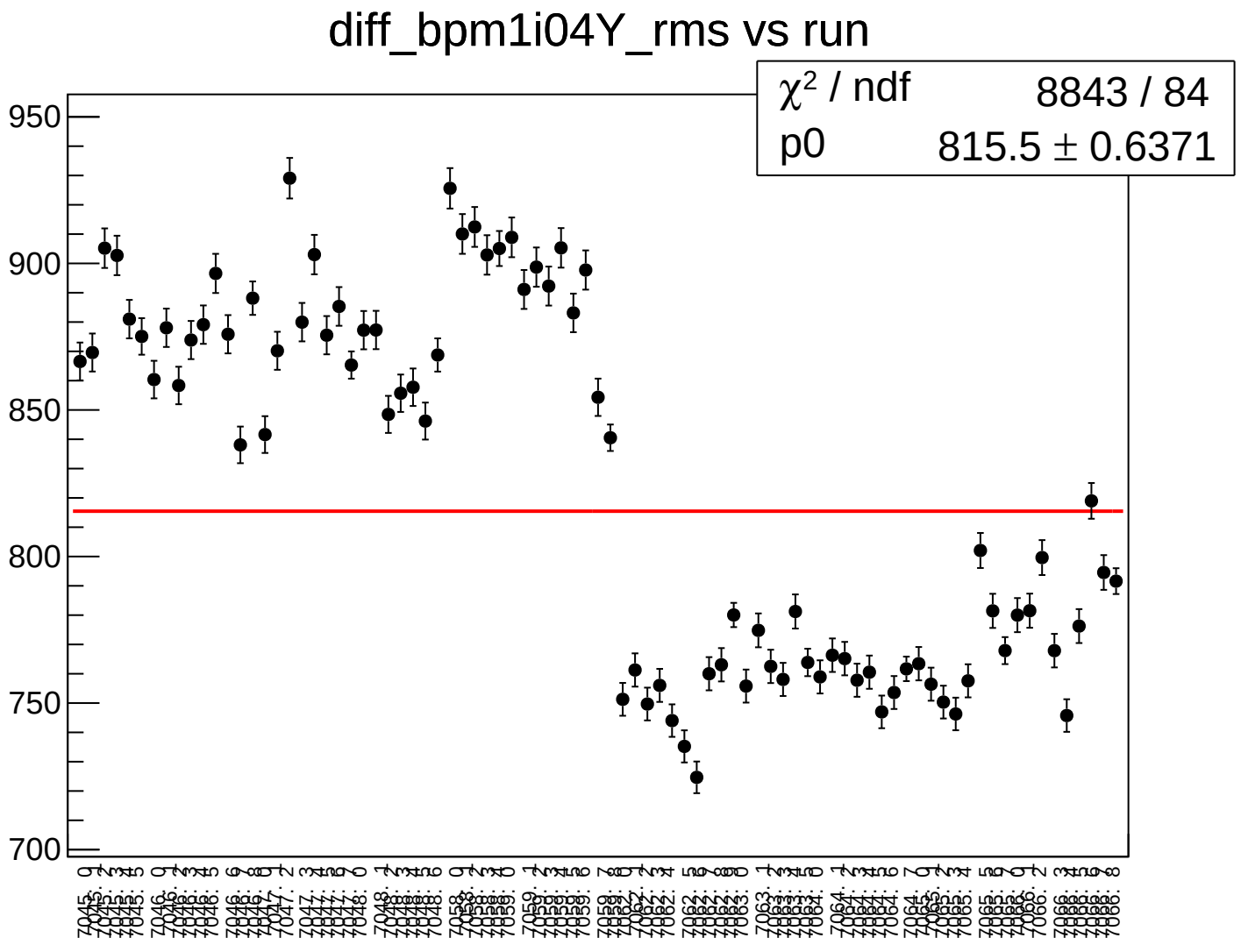

diff_bpm1i04X_mean vs run
χ² / ndf 84.39 / 84
p0 16.13 ± 1.03
pull
Entries 85
Mean 767.4
Std Dev 0

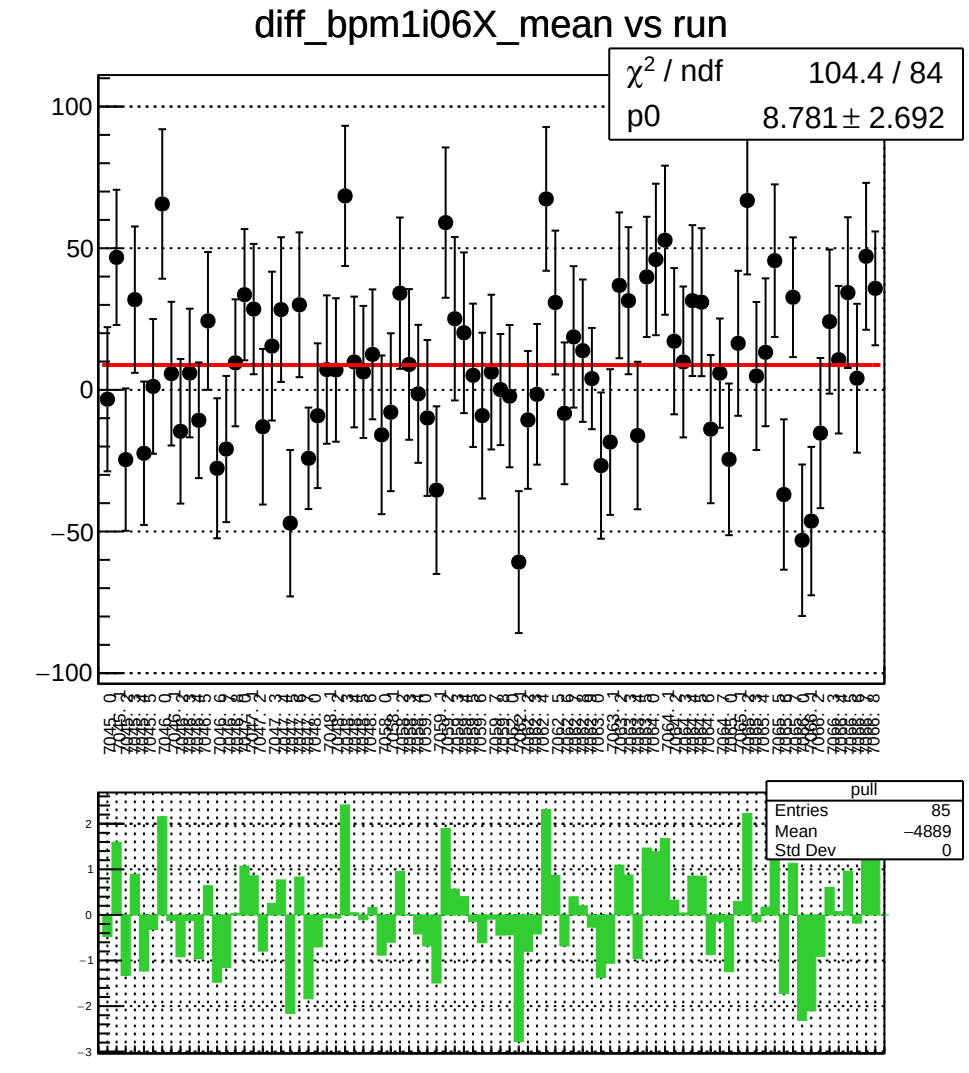

pull1D
Entries 85
Mean 0.001703
Std Dev 0.9964

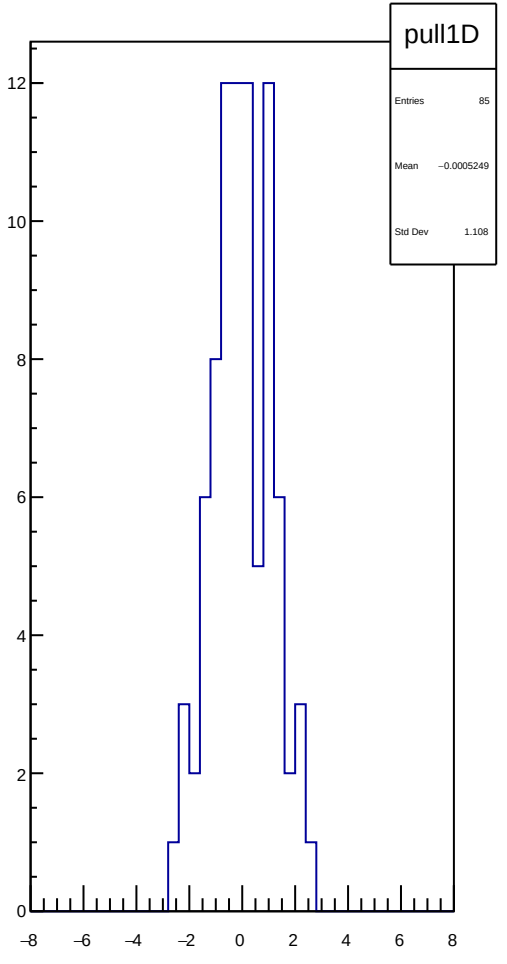

diff_bpm1i04X_rms vs run
χ² / ndf 4162 / 84
p0 933.7 ± 0.7284
1050
1000
950
900
850

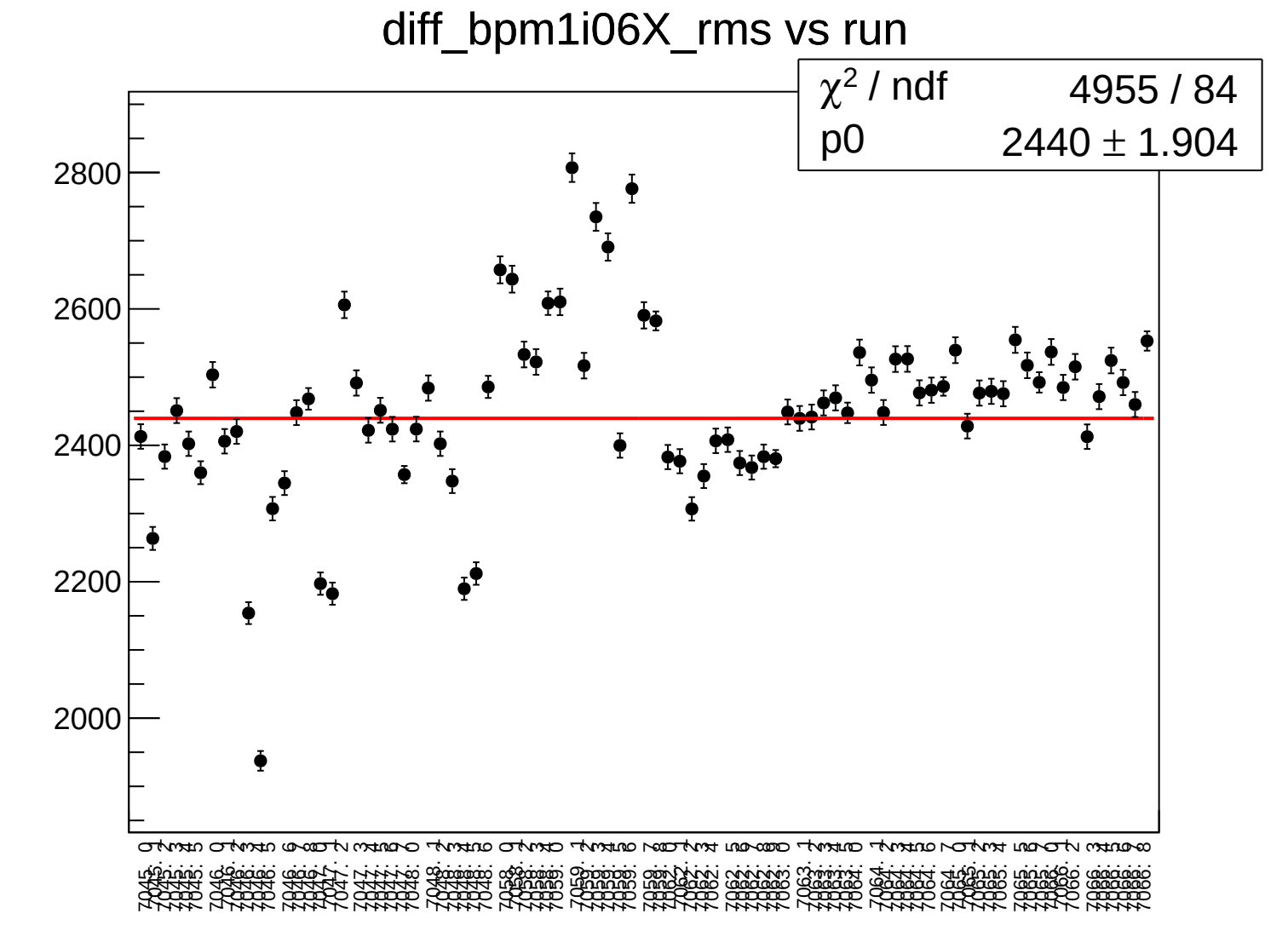

diff_bpm1i04Y_mean vs run
χ² / ndf 103.1 / 84
p0 −7.253 ± 0.901
pull
Entries 85
Mean −111
Std Dev 0

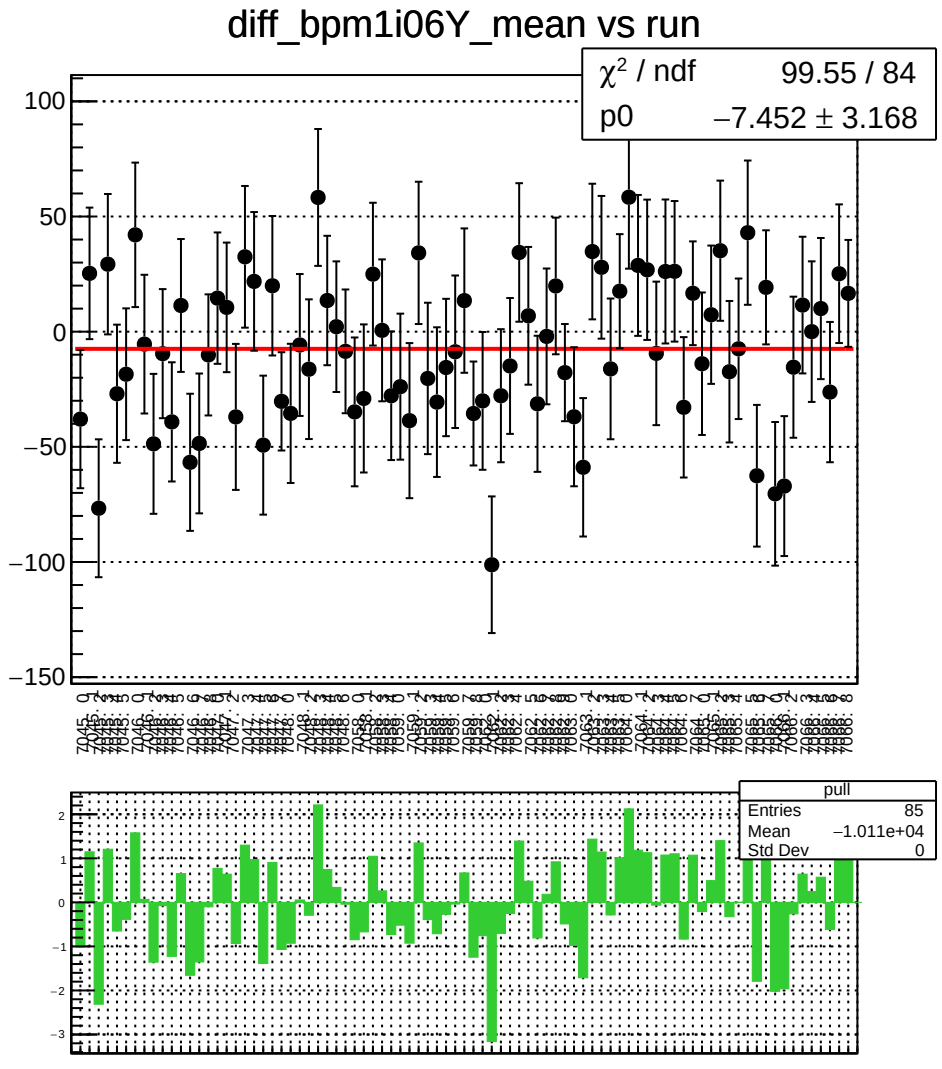

pull1D
Entries 85
Mean −0.01244
Std Dev 1.101

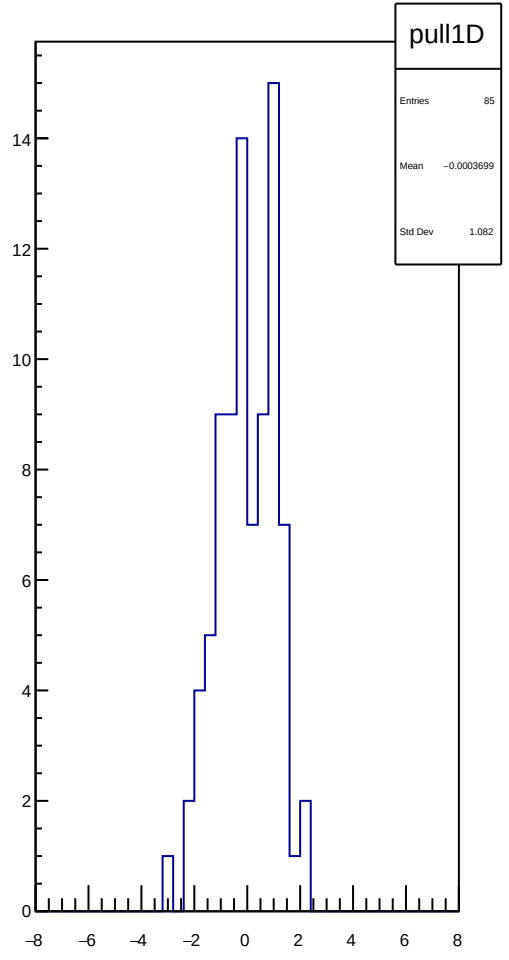

diff_bpm1i04Y_rms vs run
χ² / ndf 8843 / 84
p0 815.5 ± 0.6371
950
900
850
800
750
700

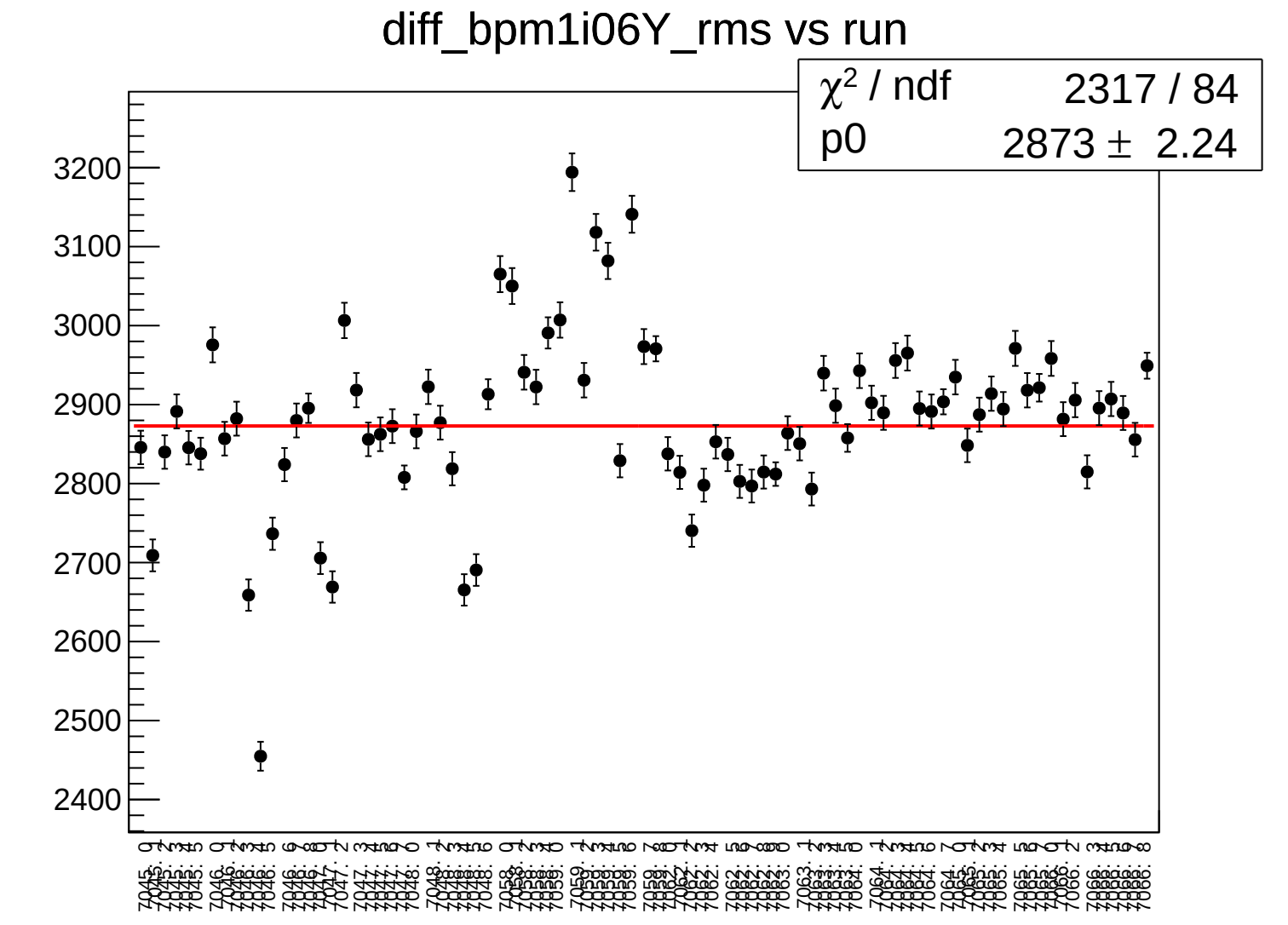

diff_bpm1i06X_mean vs run
χ² / ndf 104.4 / 84
p0 8.781 ± 2.692
100
50
0
−50
−100
pull
Entries 85
Mean −4889
Std Dev 0
2
1
0
−1
−2
−3

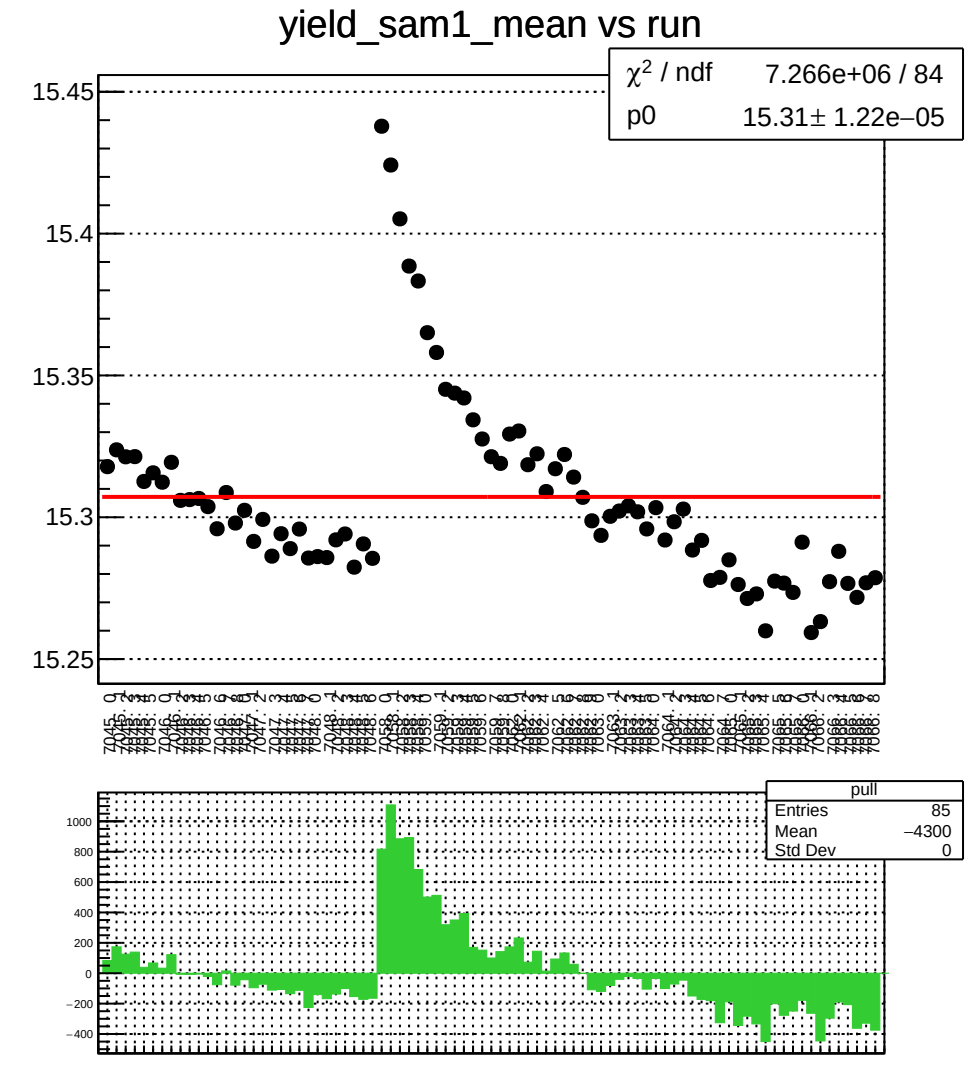

pull1D
Entries 85
Mean −0.0005249
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

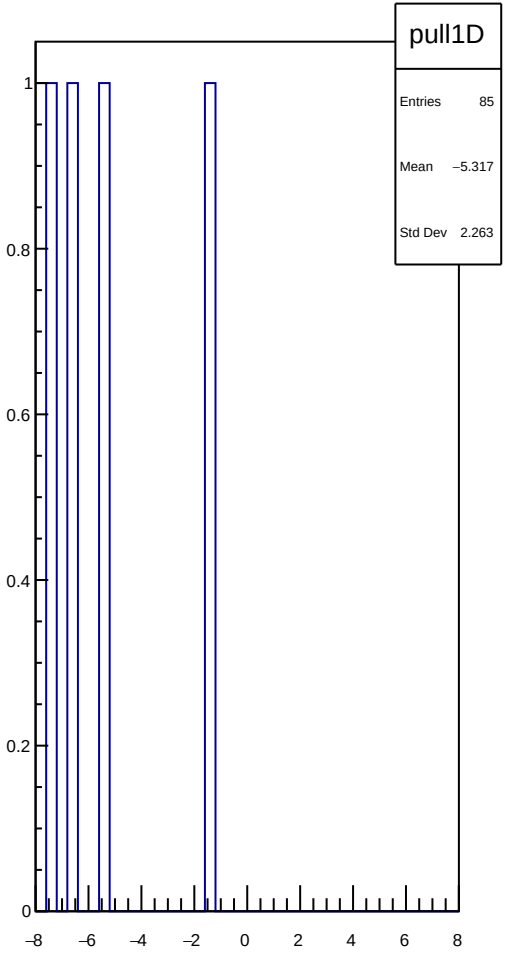

diff_bpm1i06X_rms vs run
χ² / ndf 4955 / 84
p0 2440 ± 1.904
2800
2600
2400
2200
2000

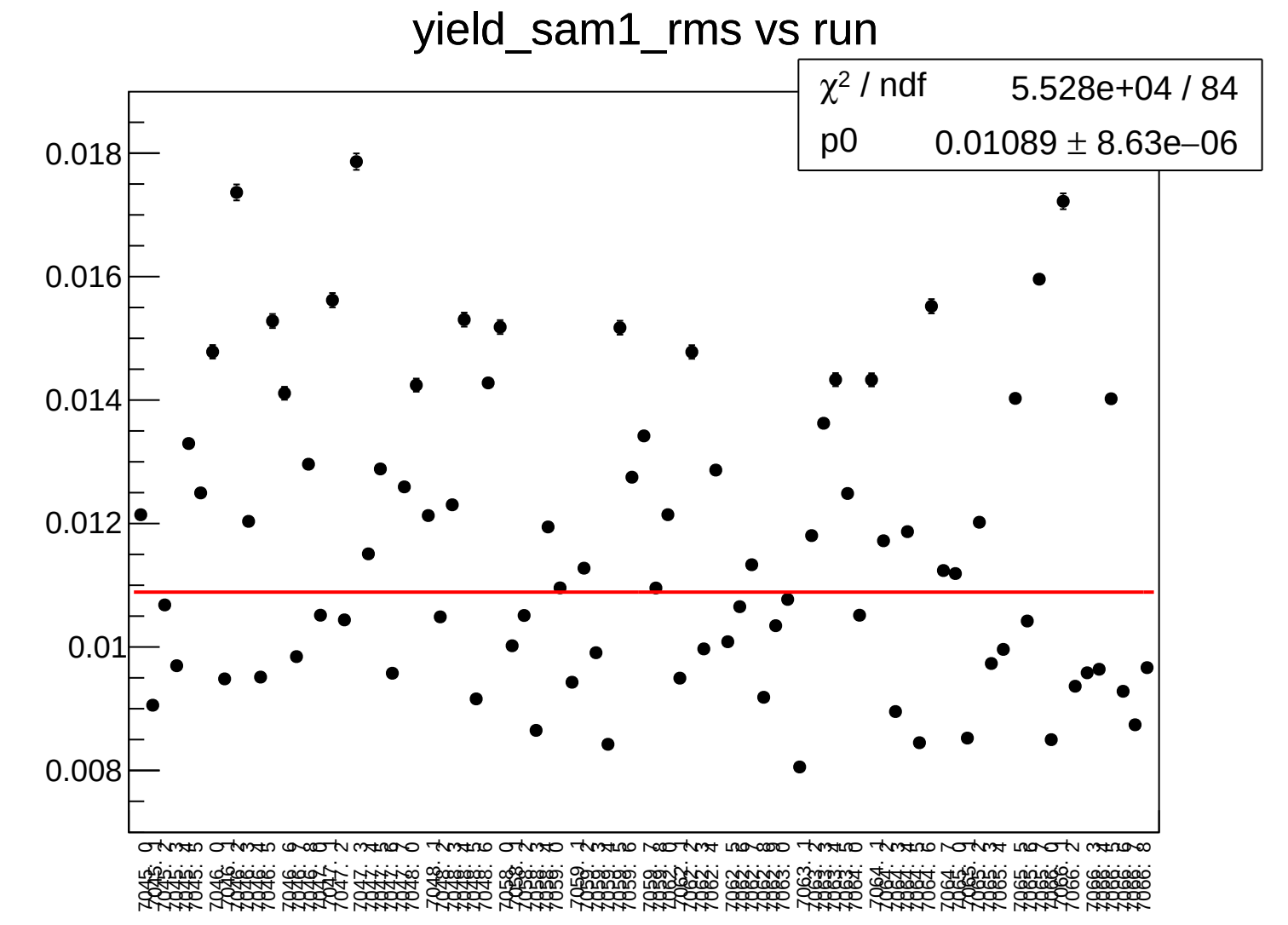

diff_bpm1i06Y_mean vs run
χ² / ndf 99.55 / 84
p0 −7.452 ± 3.168
100
50
0
−50
−100
−150
pull
Entries 85
Mean −1.011e+04
Std Dev 0
2
1
0
−1
−2
−3

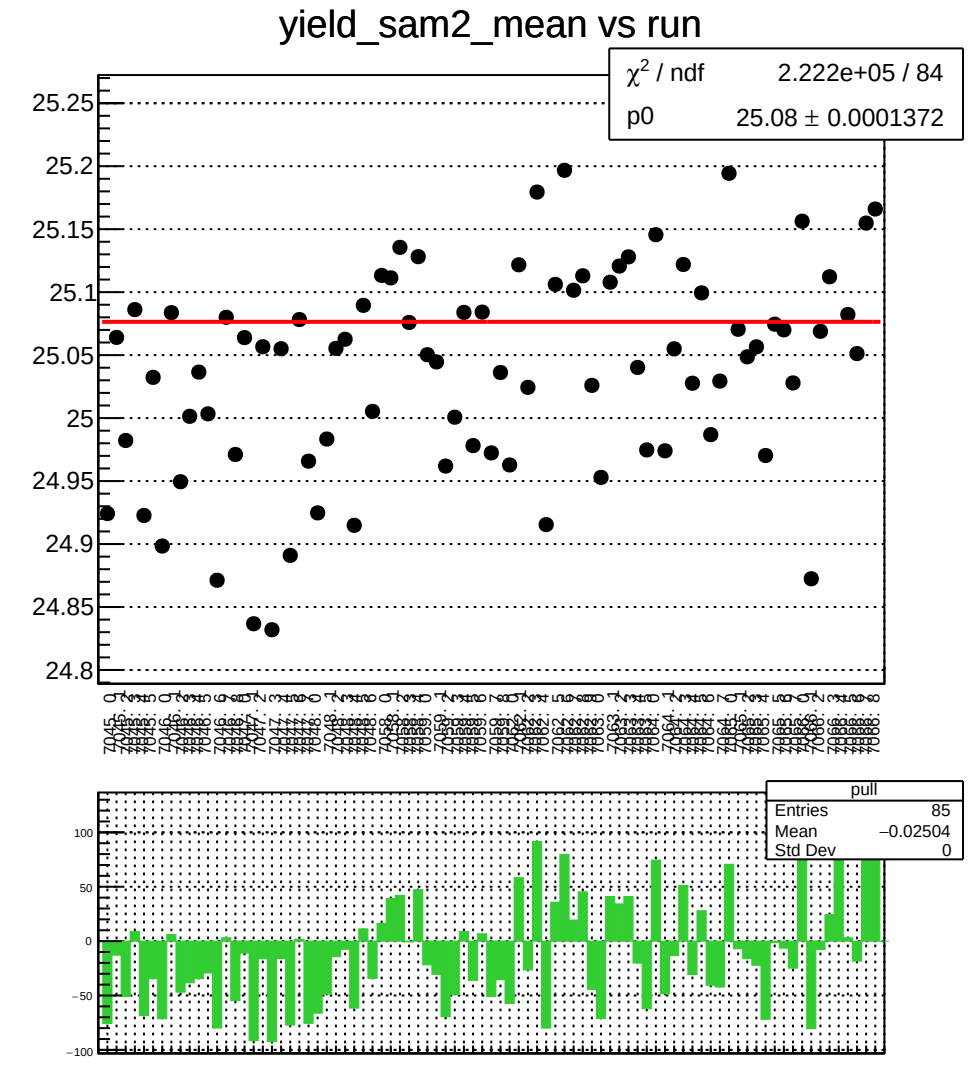

pull1D
Entries 85
Mean −0.0003699
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

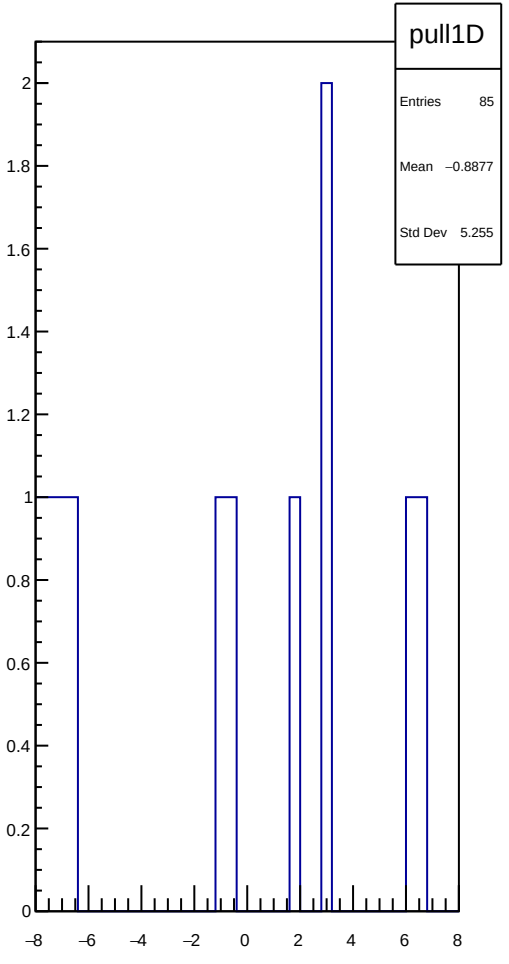

diff_bpm1i06Y_rms vs run
χ² / ndf 2317 / 84
p0 2873 ± 2.24
3200
3100
3000
2900
2800
2700
2600
2500
2400

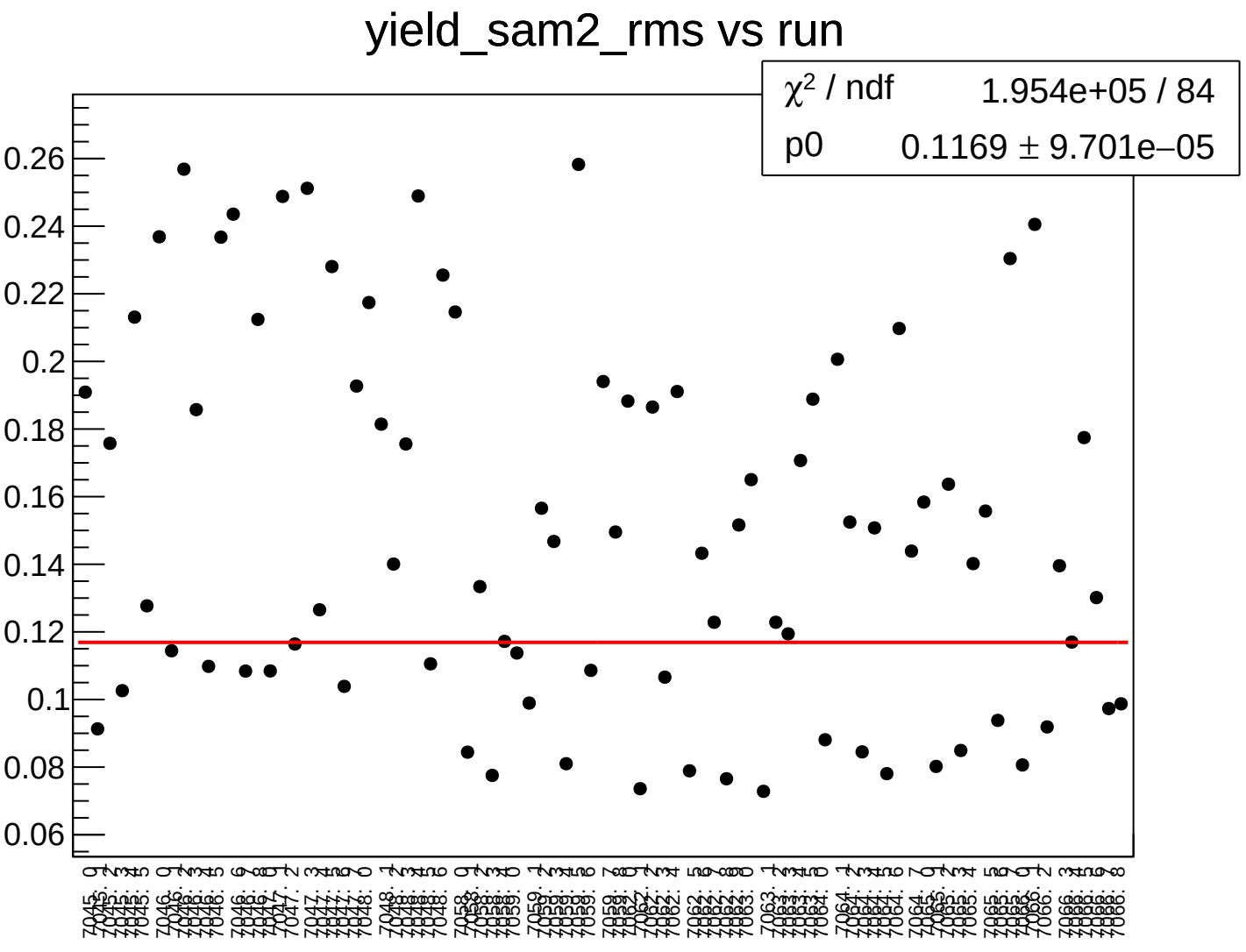

yield_sam1_mean vs run
χ² / ndf 7.266e+06 / 84
p0 15.31± 1.22e−05
15.45
15.4
15.35
15.3
15.25
pull
Entries 85
Mean −4300
Std Dev 0
1000
800
600
400
200
0
−200
−400

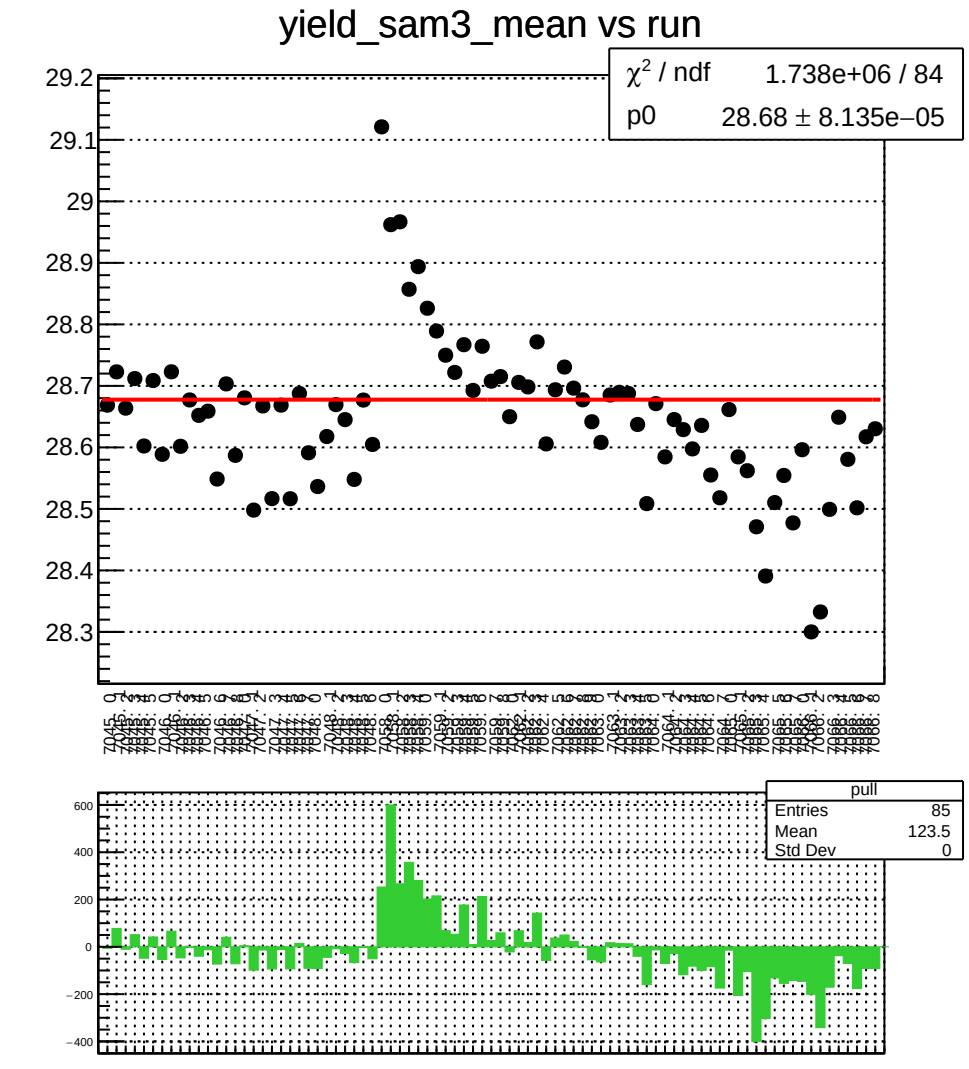

pull1D
Entries 85
Mean −5.317
Std Dev 2.263
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

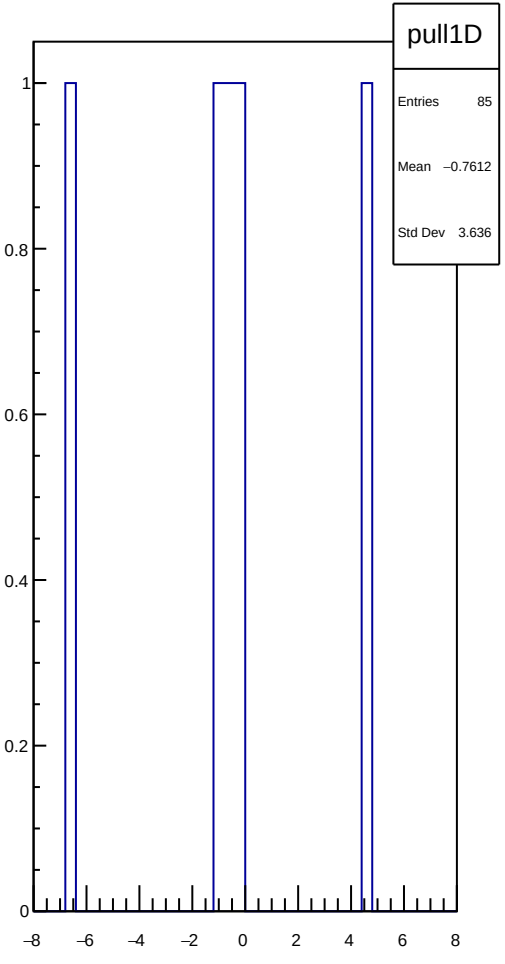

yield_sam1_rms vs run
χ² / ndf 5.528e+04 / 84
p0 0.01089 ± 8.63e−06
0.018
0.016
0.014
0.012
0.01
0.008

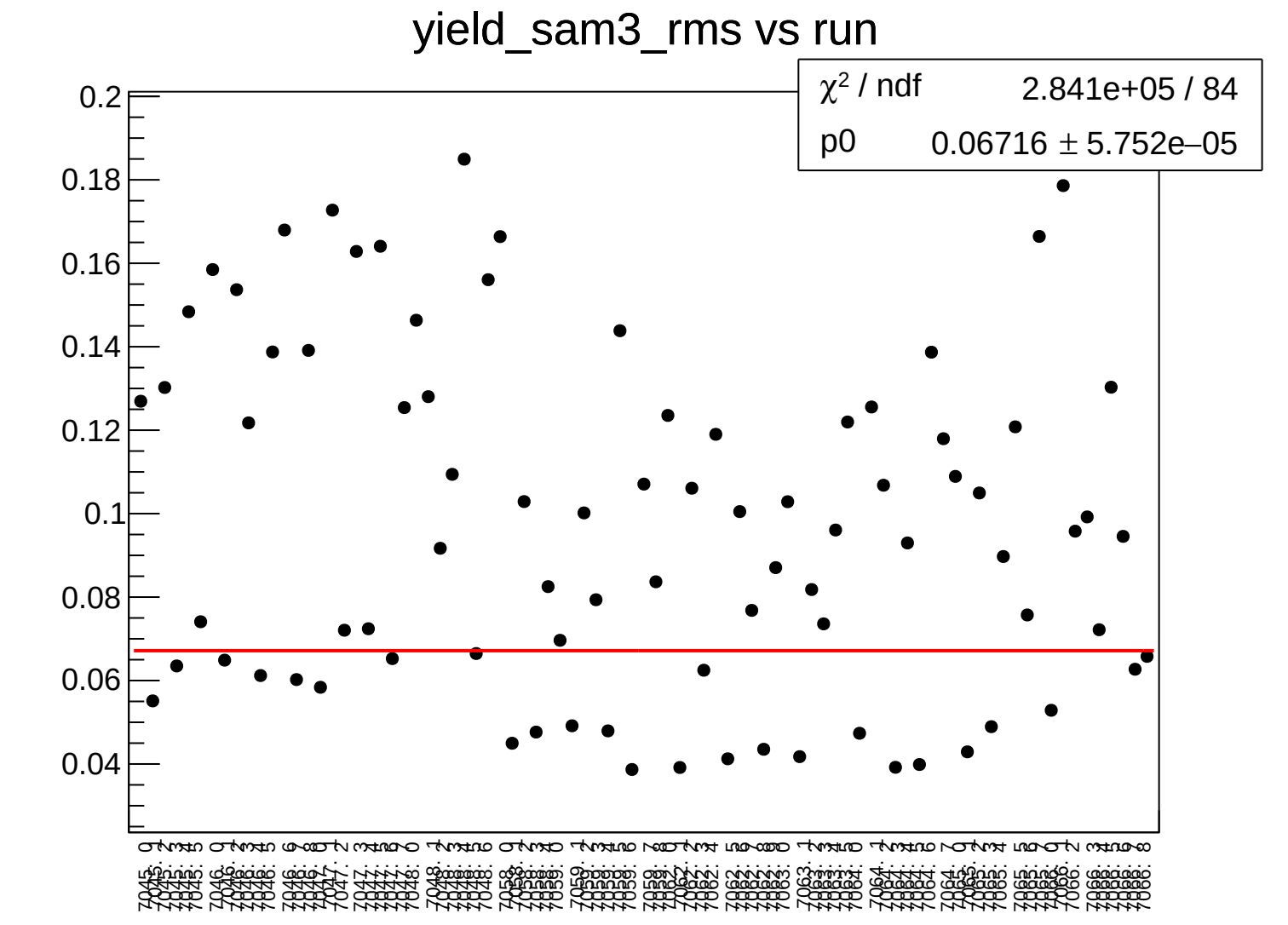

yield_sam2_mean vs run
χ² / ndf 2.222e+05 / 84
p0 25.08 ± 0.0001372
25.25
25.2
25.15
25.1
25.05
25
24.95
24.9
24.85
24.8
pull
Entries 85
Mean −0.02504
Std Dev 0
100
50
0
−50
−100

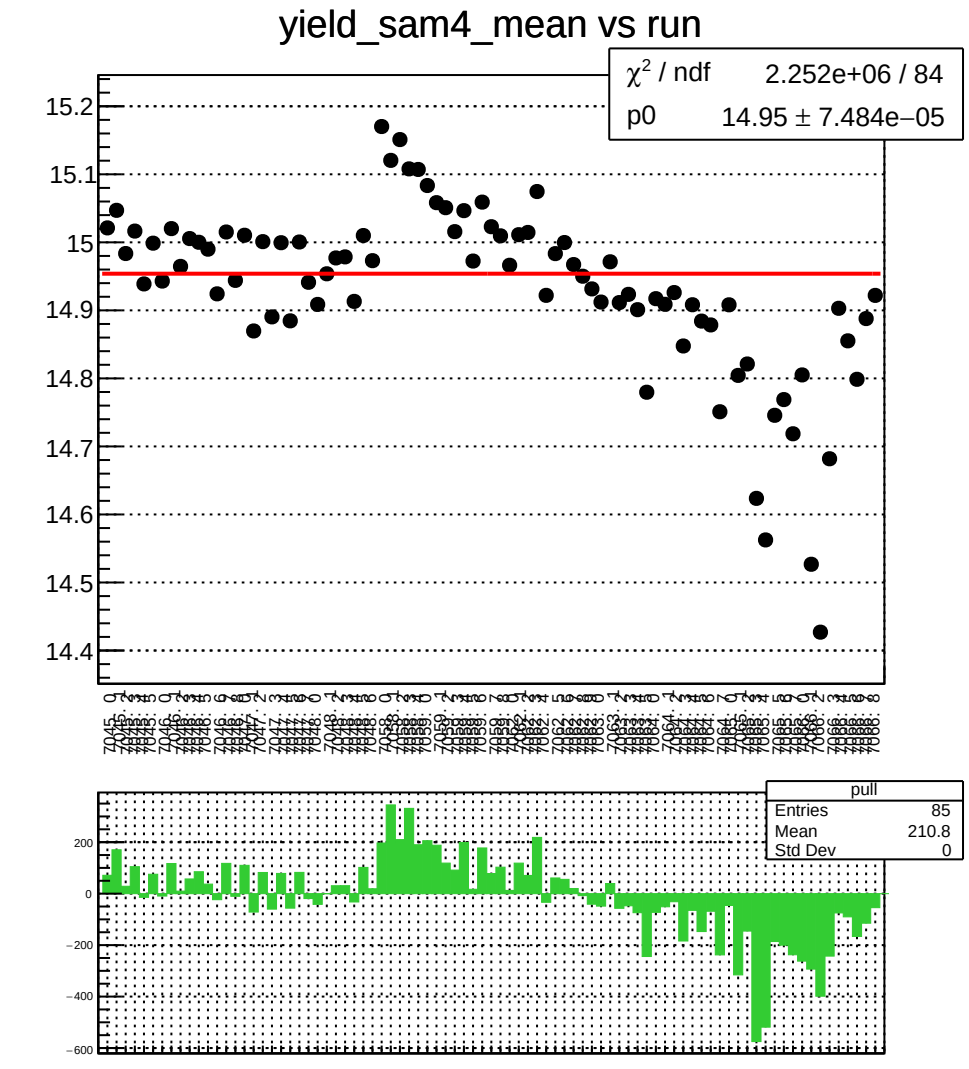

pull1D
Entries 85
Mean −0.8877
Std Dev 5.255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

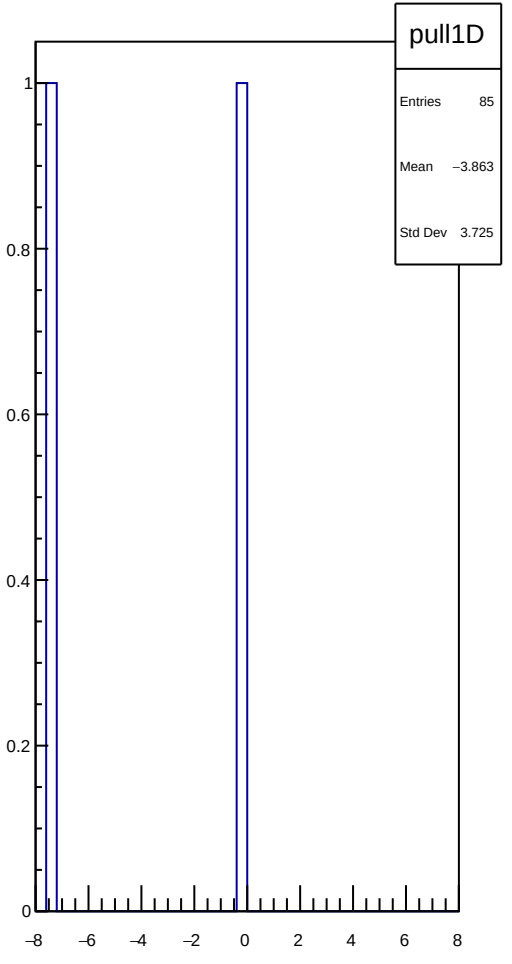

yield_sam2_rms vs run
χ² / ndf 1.954e+05 / 84
p0 0.1169 ± 9.701e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

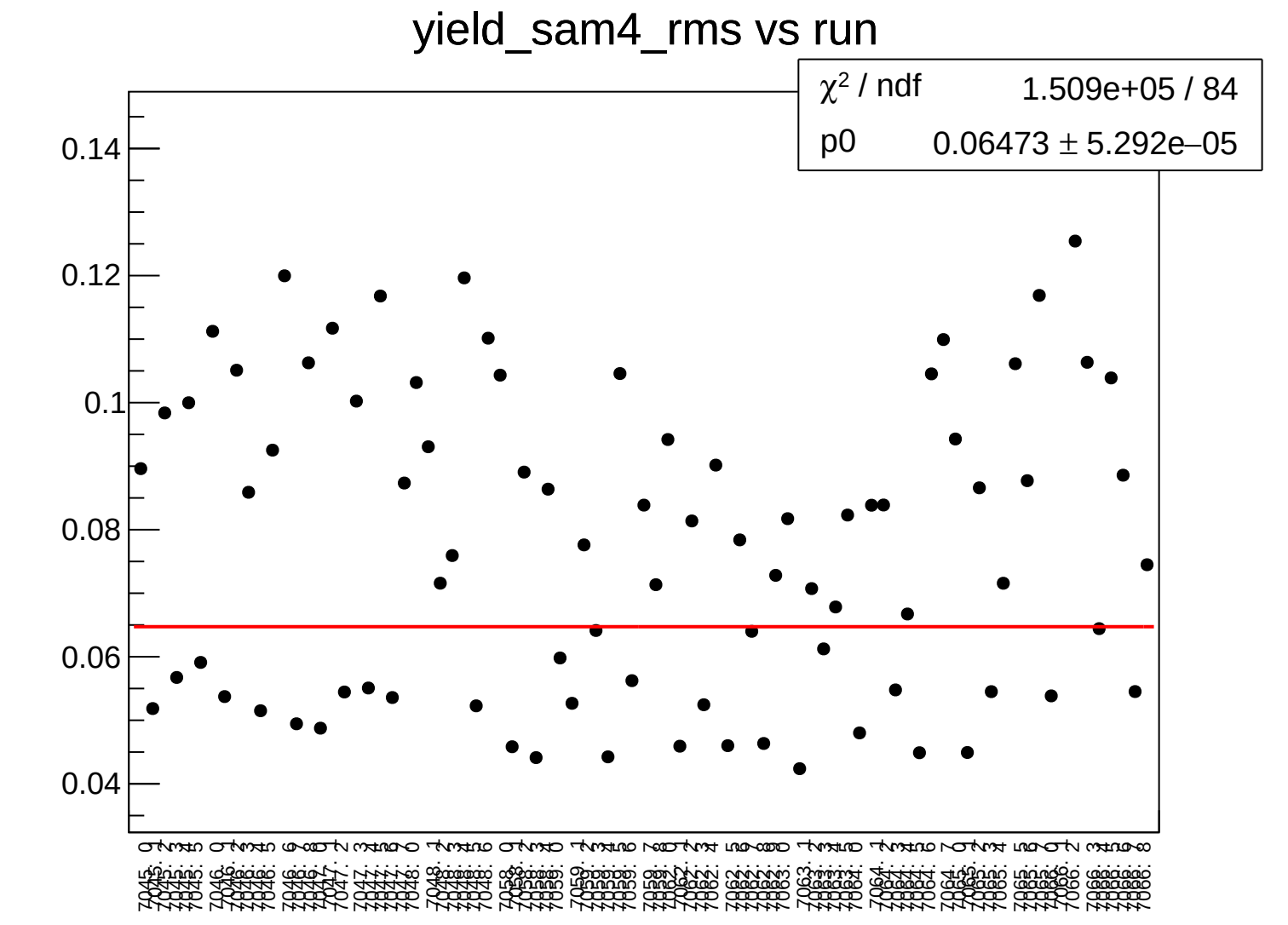

yield_sam3_mean vs run
χ² / ndf 1.738e+06 / 84
p0 28.68 ± 8.135e−05
29.2
29.1
29
28.9
28.8
28.7
28.6
28.5
28.4
28.3
pull
Entries 85
Mean 123.5
Std Dev 0
600
400
200
0
−200
−400

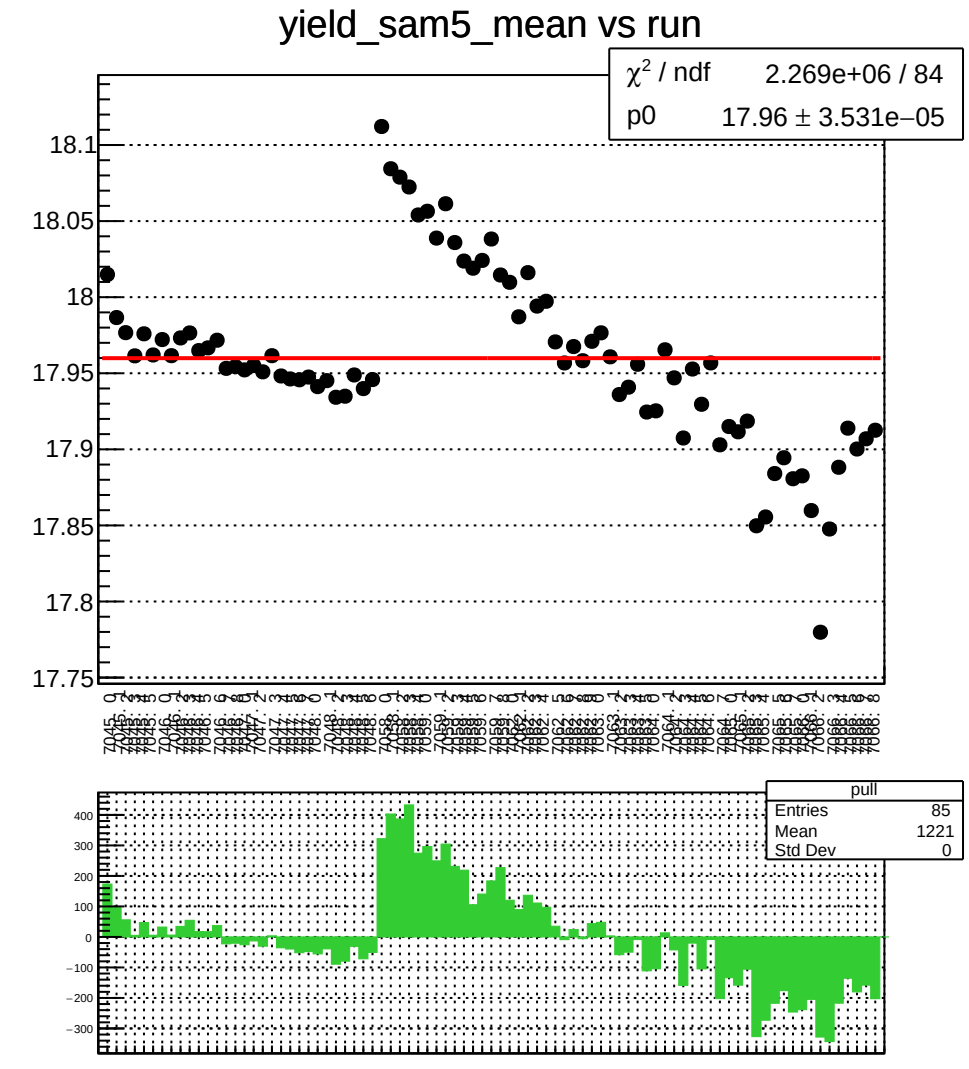

pull1D
Entries 85
Mean −0.7612
Std Dev 3.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

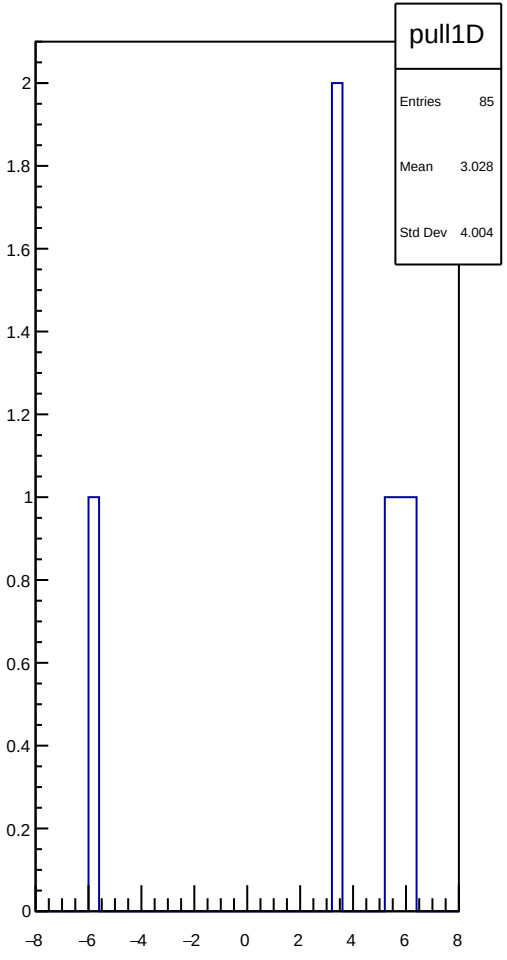

yield_sam3_rms vs run
χ² / ndf 2.841e+05 / 84
p0 0.06716 ± 5.752e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

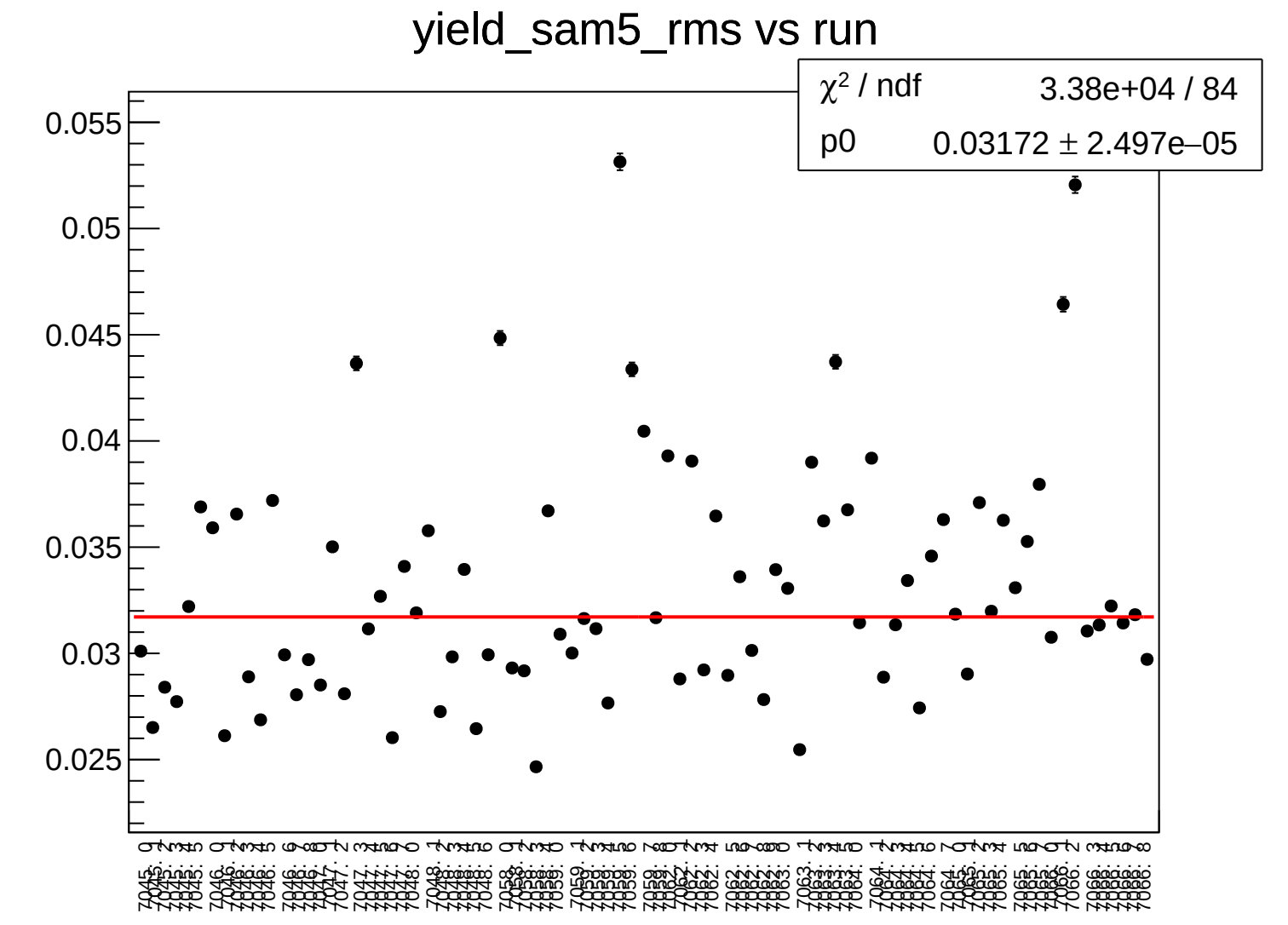

yield_sam4_mean vs run
χ² / ndf 2.252e+06 / 84
p0 14.95 ± 7.484e−05
15.2
15.1
15
14.9
14.8
14.7
14.6
14.5
14.4
pull
Entries 85
Mean 210.8
Std Dev 0
200
0
−200
−400
−600

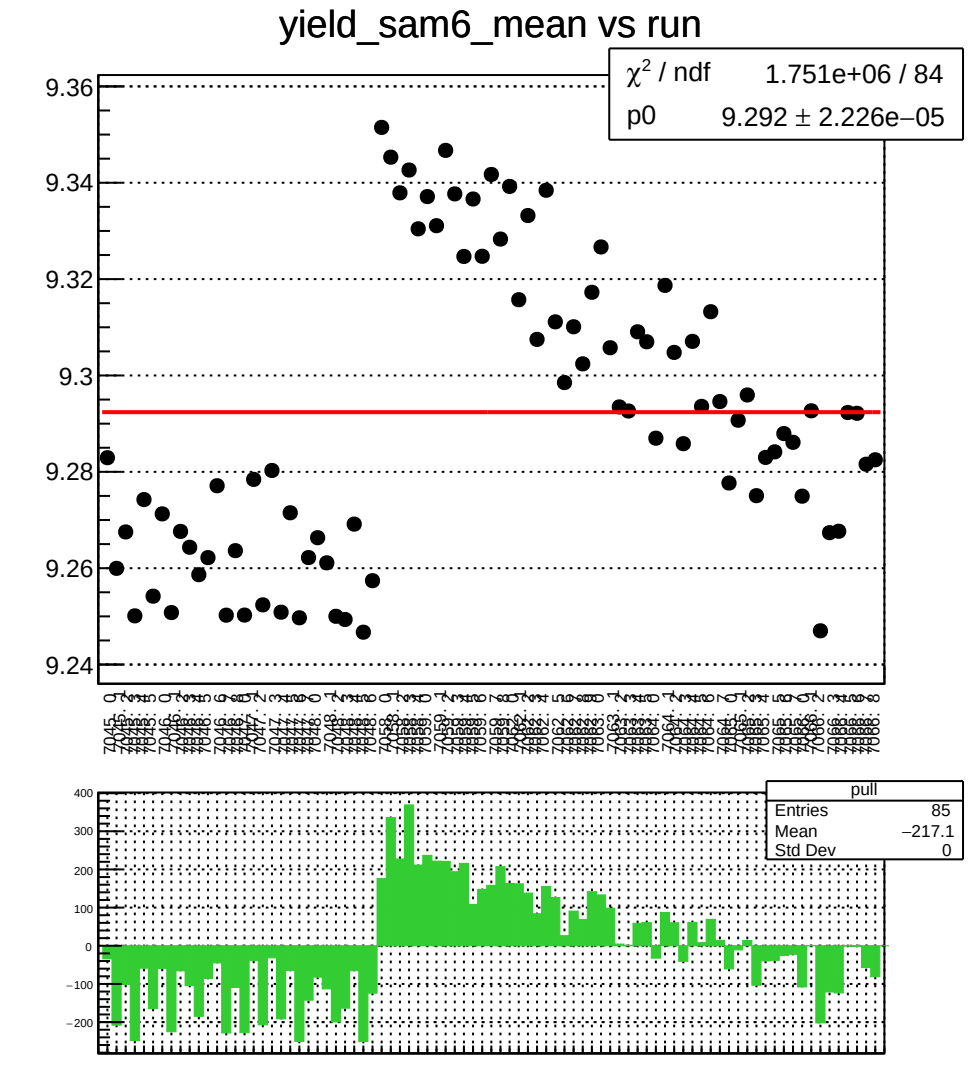

pull1D
Entries 85
Mean −3.863
Std Dev 3.725
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

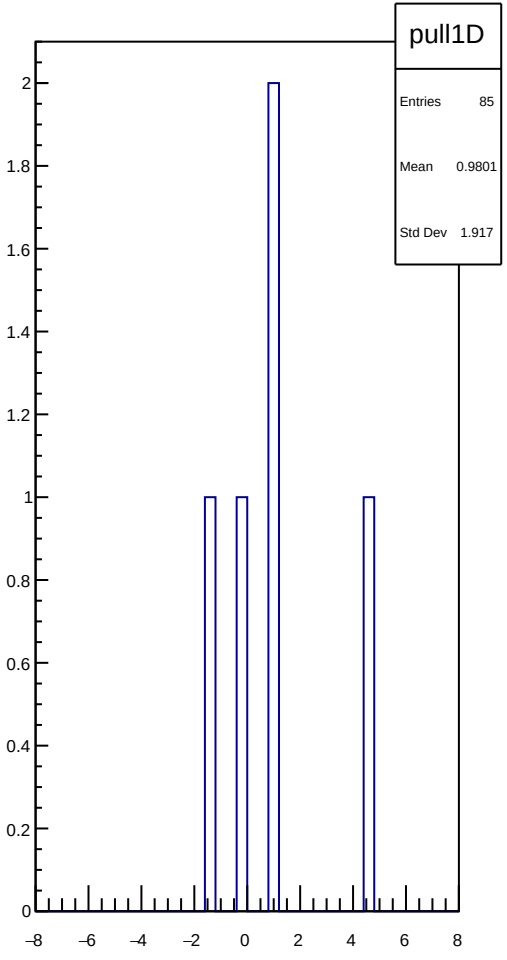

yield_sam4_rms vs run
χ² / ndf 1.509e+05 / 84
p0 0.06473 ± 5.292e−05
0.14
0.12
0.1
0.08
0.06
0.04

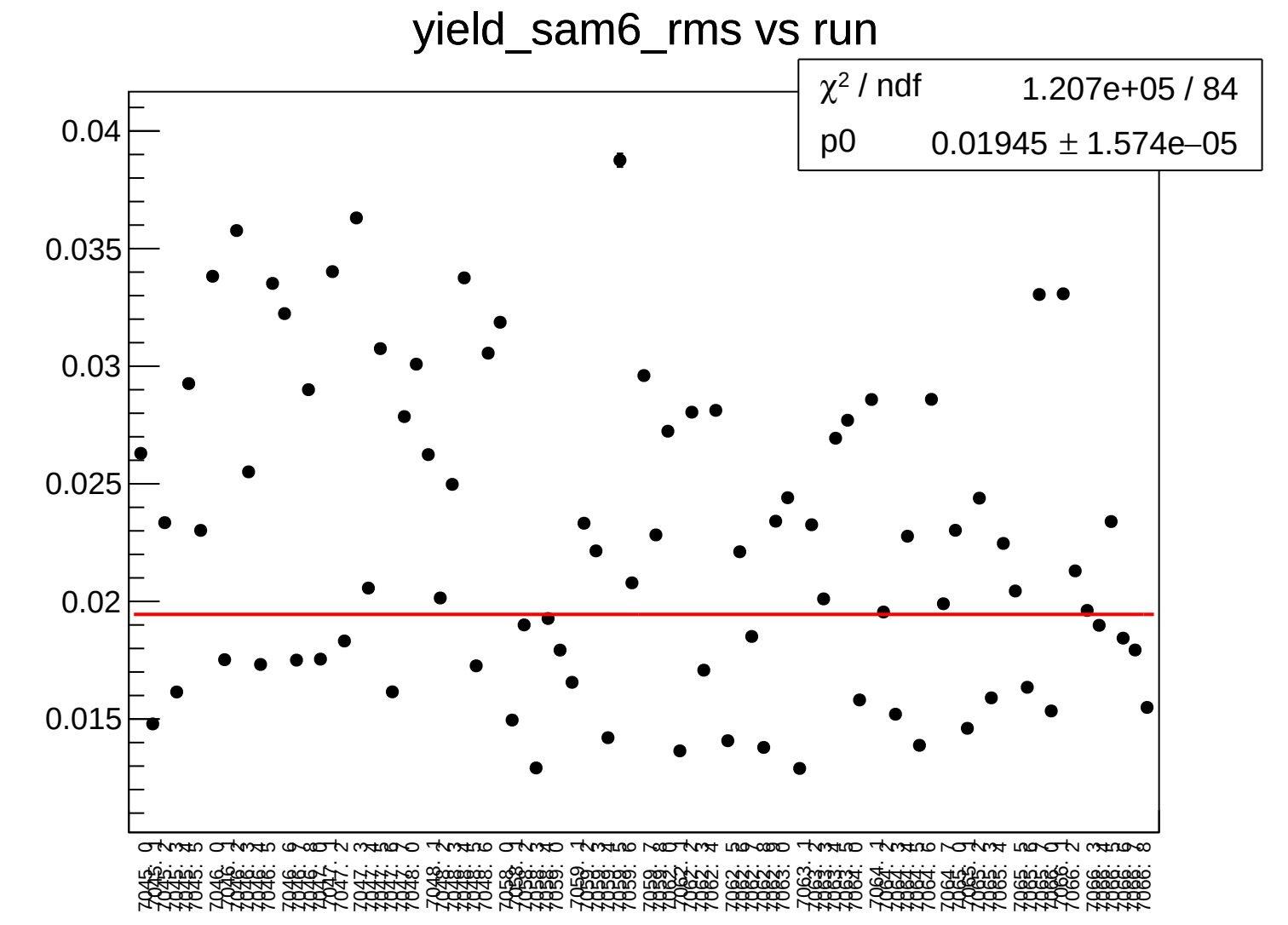

yield_sam5_mean vs run
χ² / ndf 2.269e+06 / 84
p0 17.96 ± 3.531e−05
18.1
18.05
18
17.95
17.9
17.85
17.8
17.75
pull
Entries 85
Mean 1221
Std Dev 0
400
300
200
100
0
−100
−200
−300

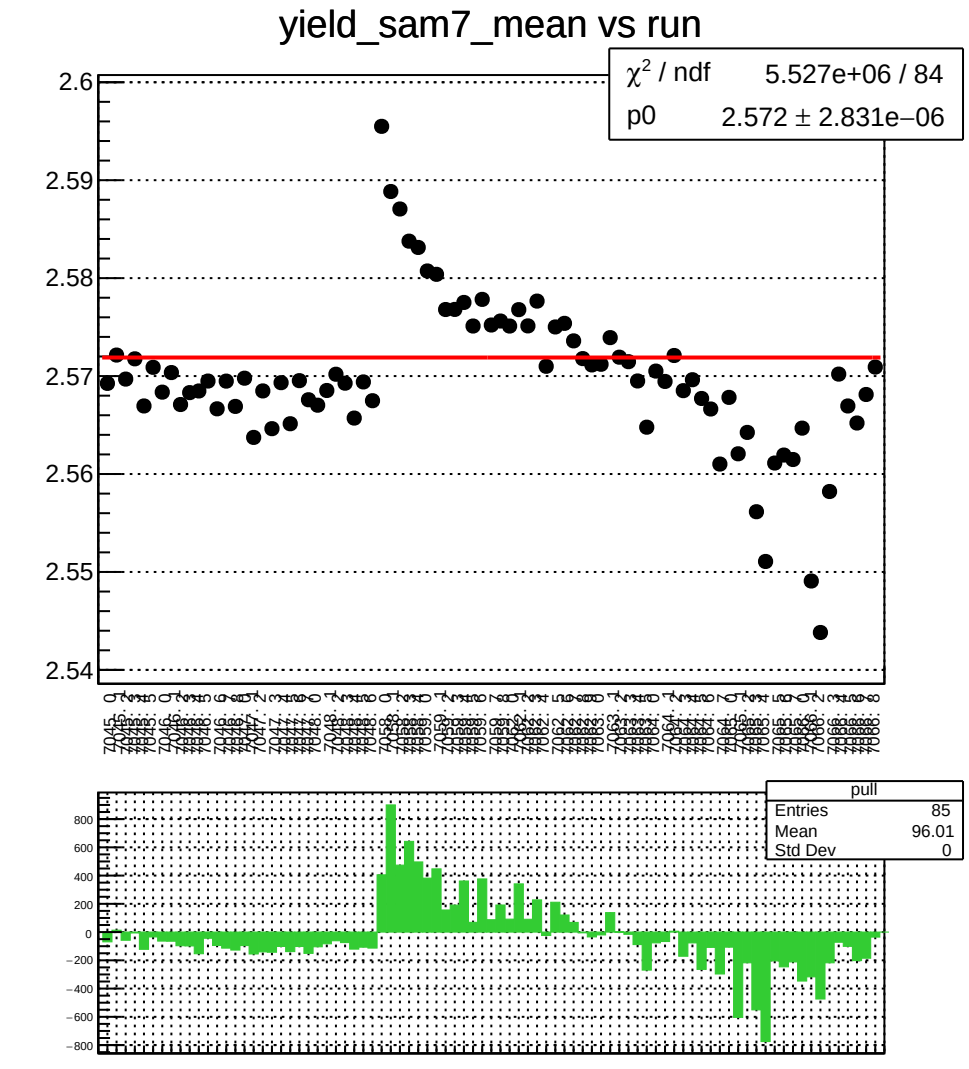

pull1D
Entries 85
Mean 3.028
Std Dev 4.004
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

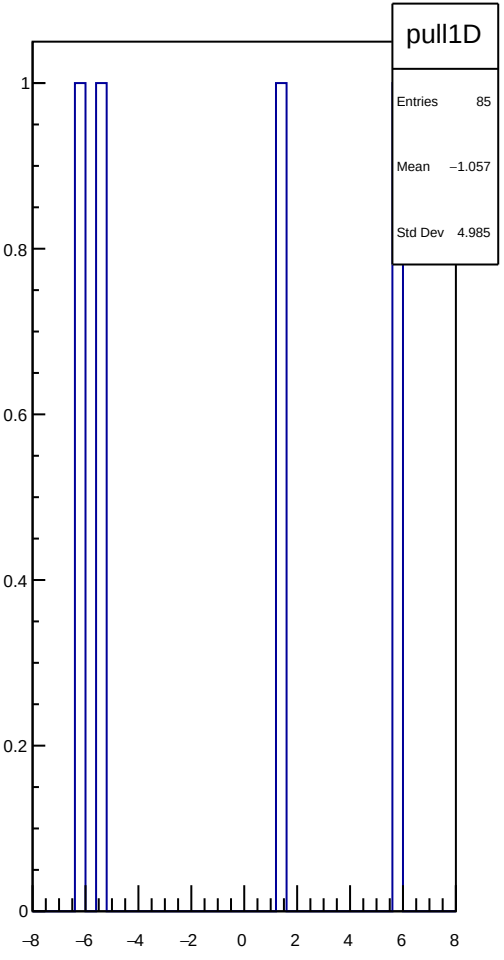

yield_sam5_rms vs run
χ² / ndf 3.38e+04 / 84
p0 0.03172 ± 2.497e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025

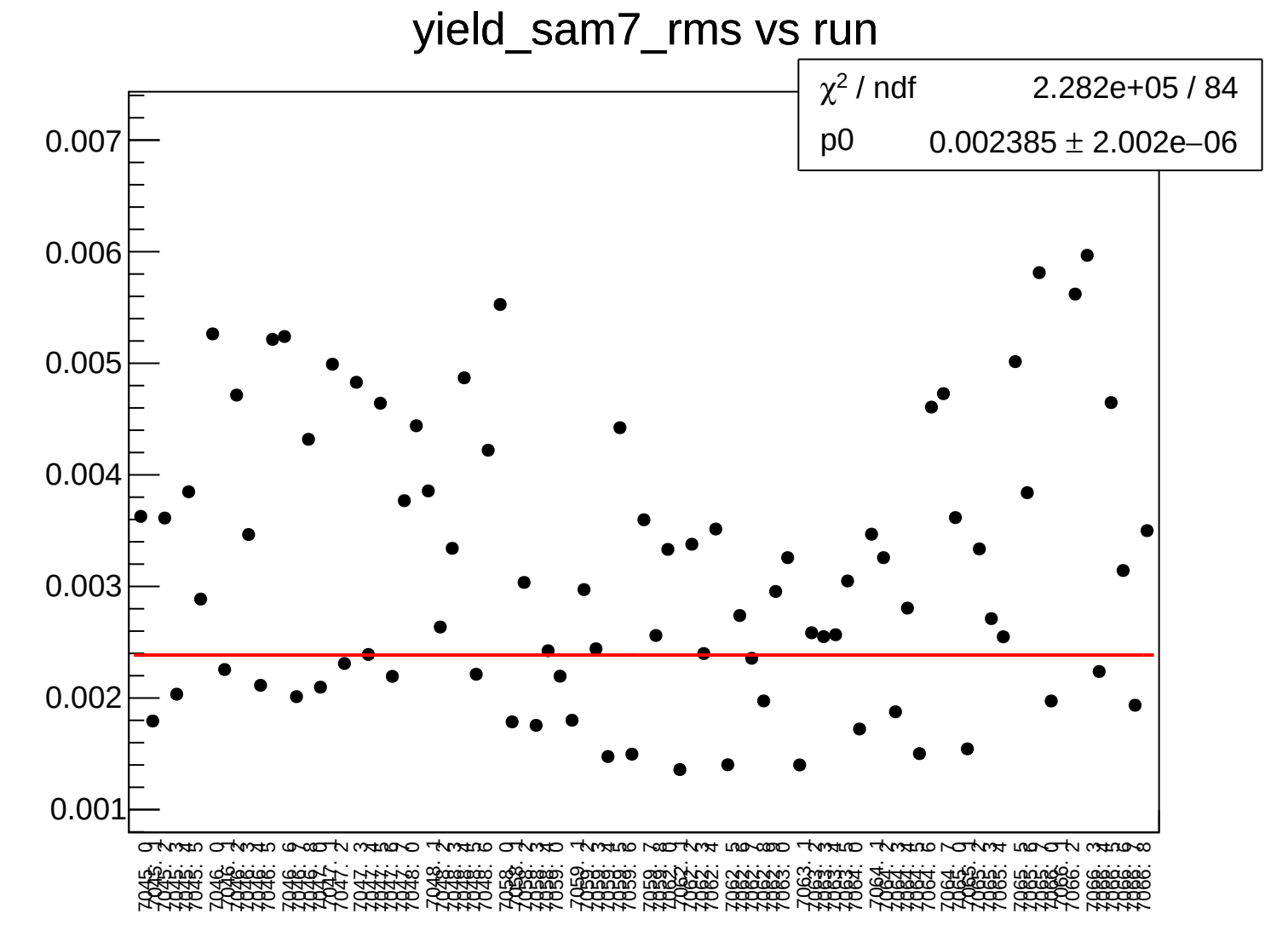

yield_sam6_mean vs run
χ² / ndf 1.751e+06 / 84
p0 9.292 ± 2.226e−05
9.36
9.34
9.32
9.3
9.28
9.26
9.24
pull
Entries 85
Mean −217.1
Std Dev 0
400
300
200
100
0
−100
−200

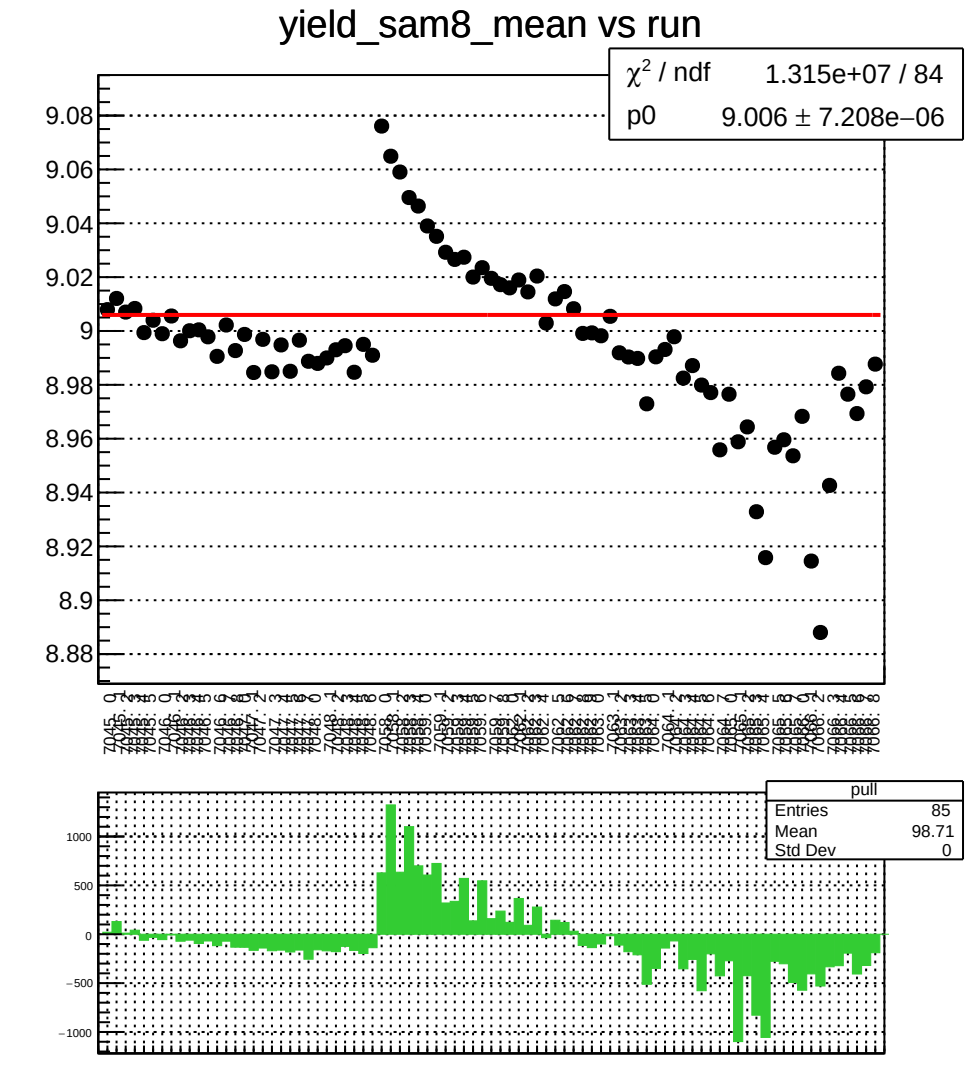

pull1D
Entries 85
Mean 0.9801
Std Dev 1.917
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

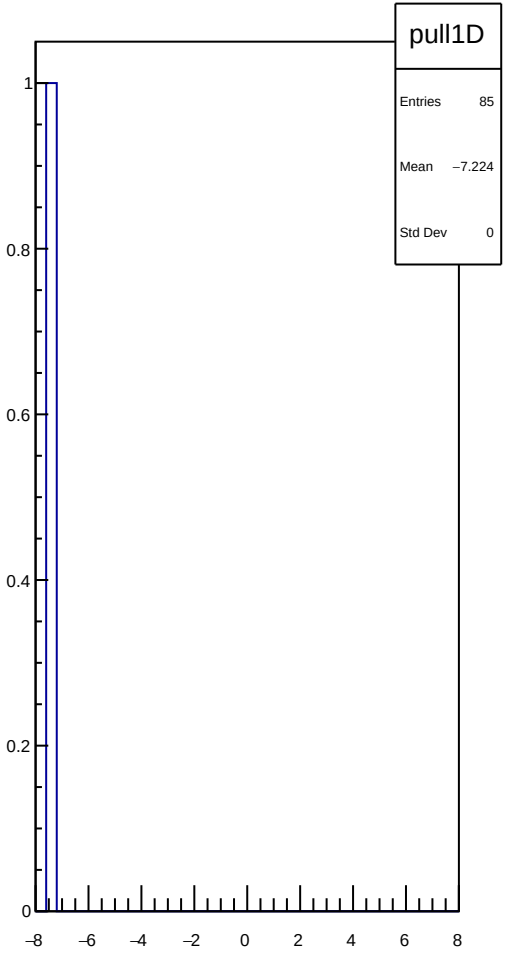

yield_sam6_rms vs run
χ² / ndf 1.207e+05 / 84
p0 0.01945 ± 1.574e−05
0.04
0.035
0.03
0.025
0.02
0.015

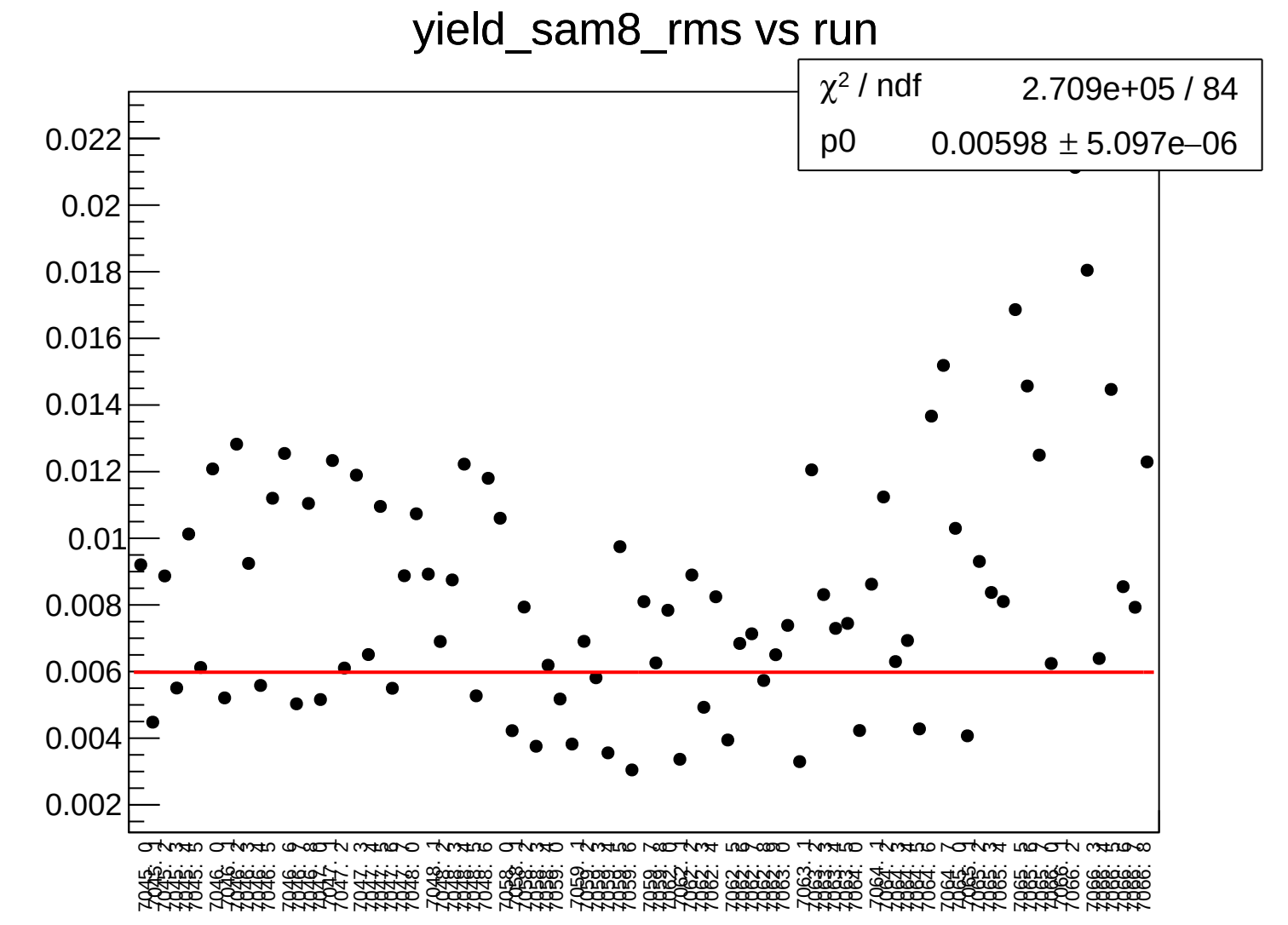

yield_sam7_mean vs run
χ² / ndf 5.527e+06 / 84
p0 2.572 ± 2.831e−06
pull
Entries 85
Mean 96.01
Std Dev 0

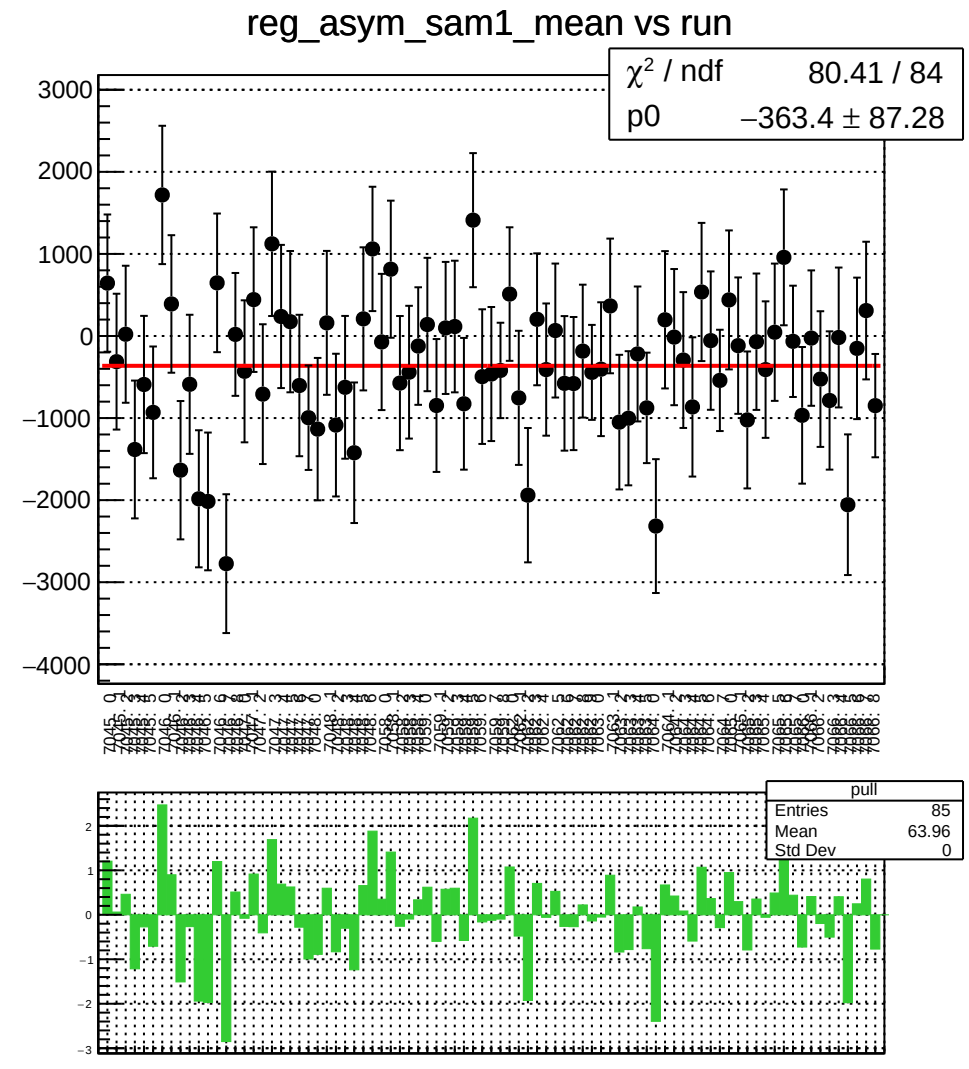

pull1D
Entries 85
Mean −1.057
Std Dev 4.985

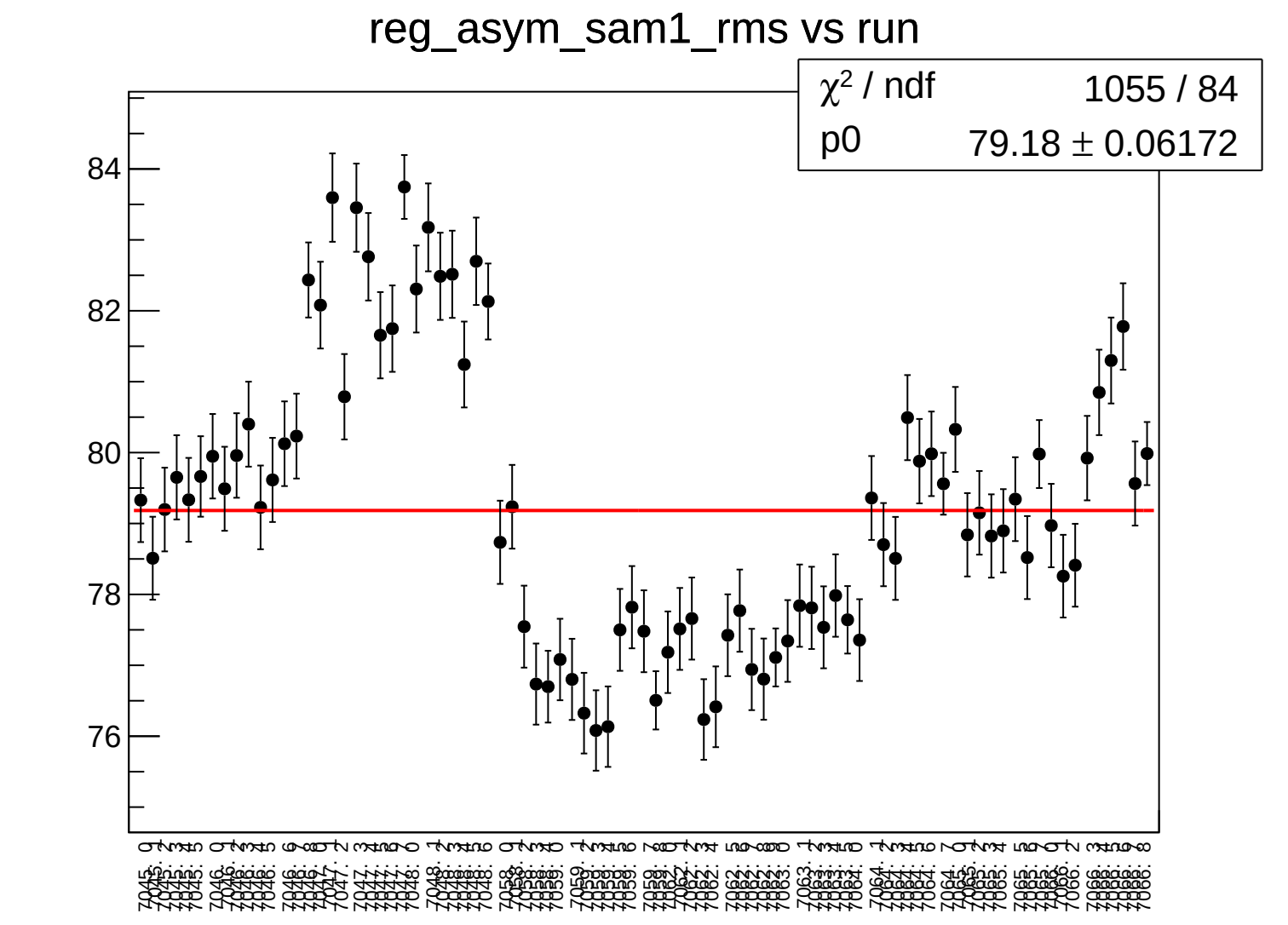

yield_sam7_rms vs run
χ² / ndf 2.282e+05 / 84
p0 0.002385 ± 2.002e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

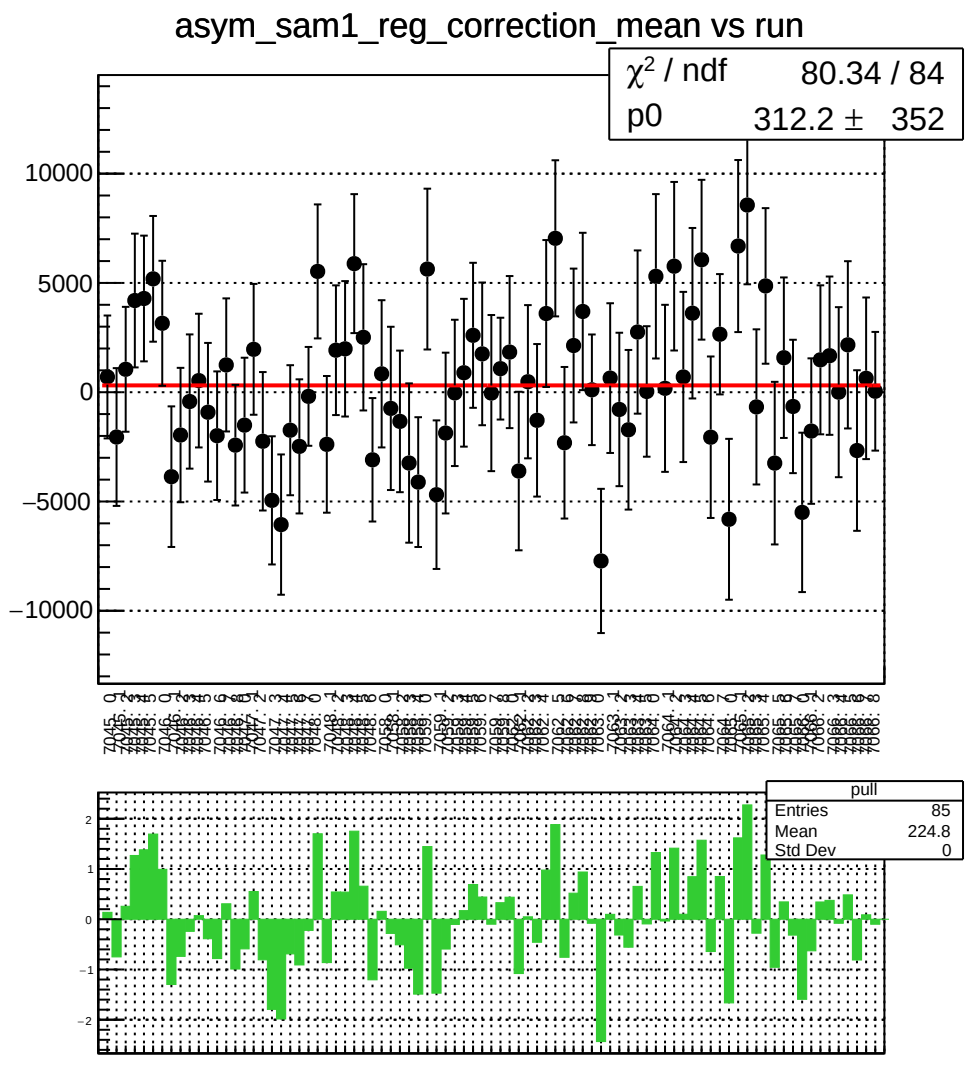

yield_sam8_mean vs run
χ² / ndf 1.315e+07 / 84
p0 9.006 ± 7.208e−06
9.08
9.06
9.04
9.02
9
8.98
8.96
8.94
8.92
8.9
8.88
pull
Entries 85
Mean 98.71
Std Dev 0
1000
500
0
−500
−1000

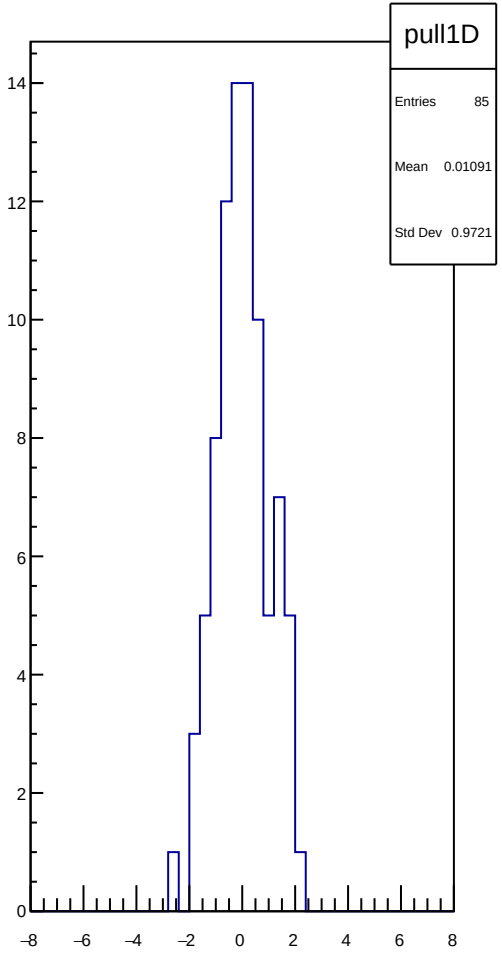

pull1D
Entries 85
Mean −7.224
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

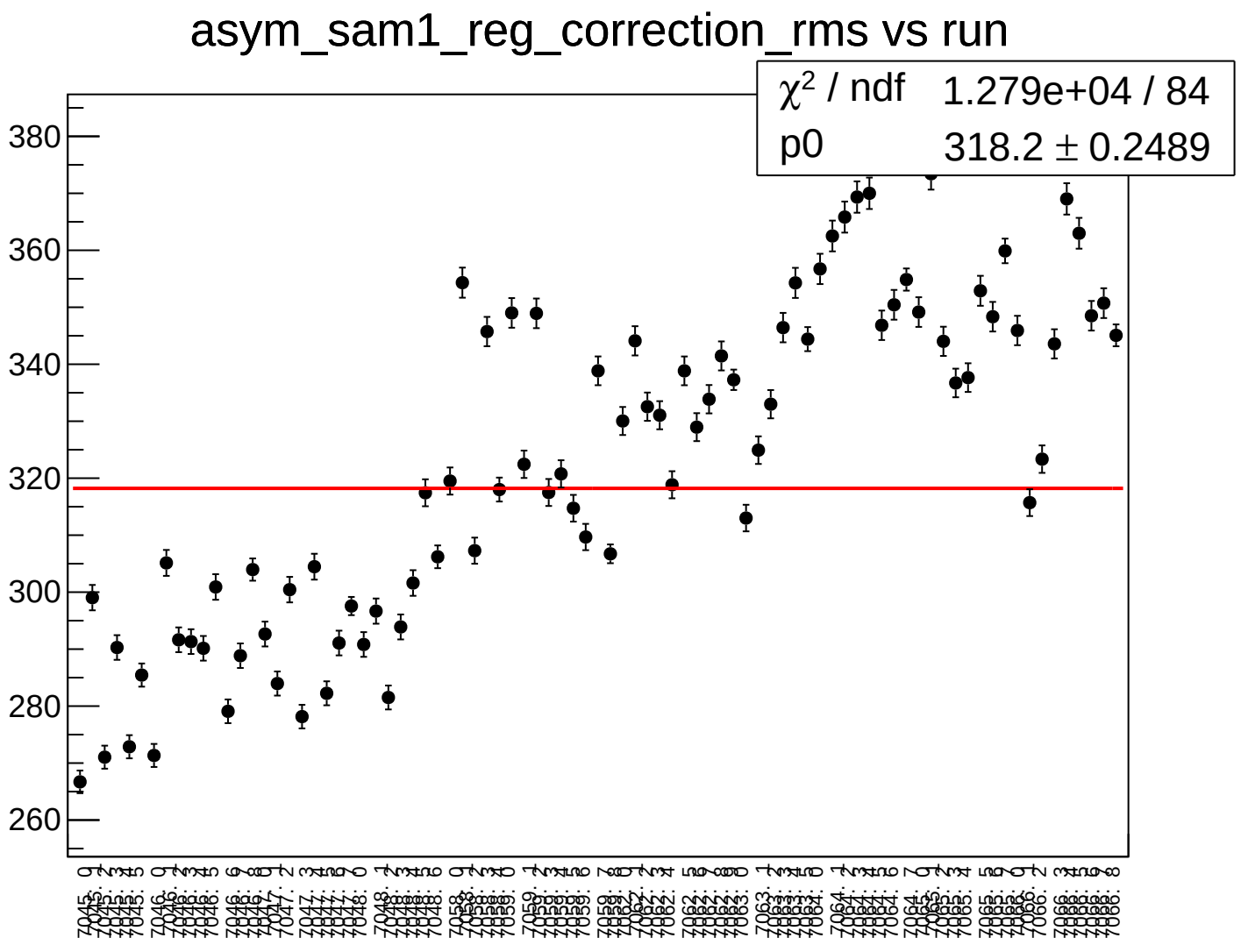

yield_sam8_rms vs run
χ² / ndf 2.709e+05 / 84
p0 0.00598 ± 5.097e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

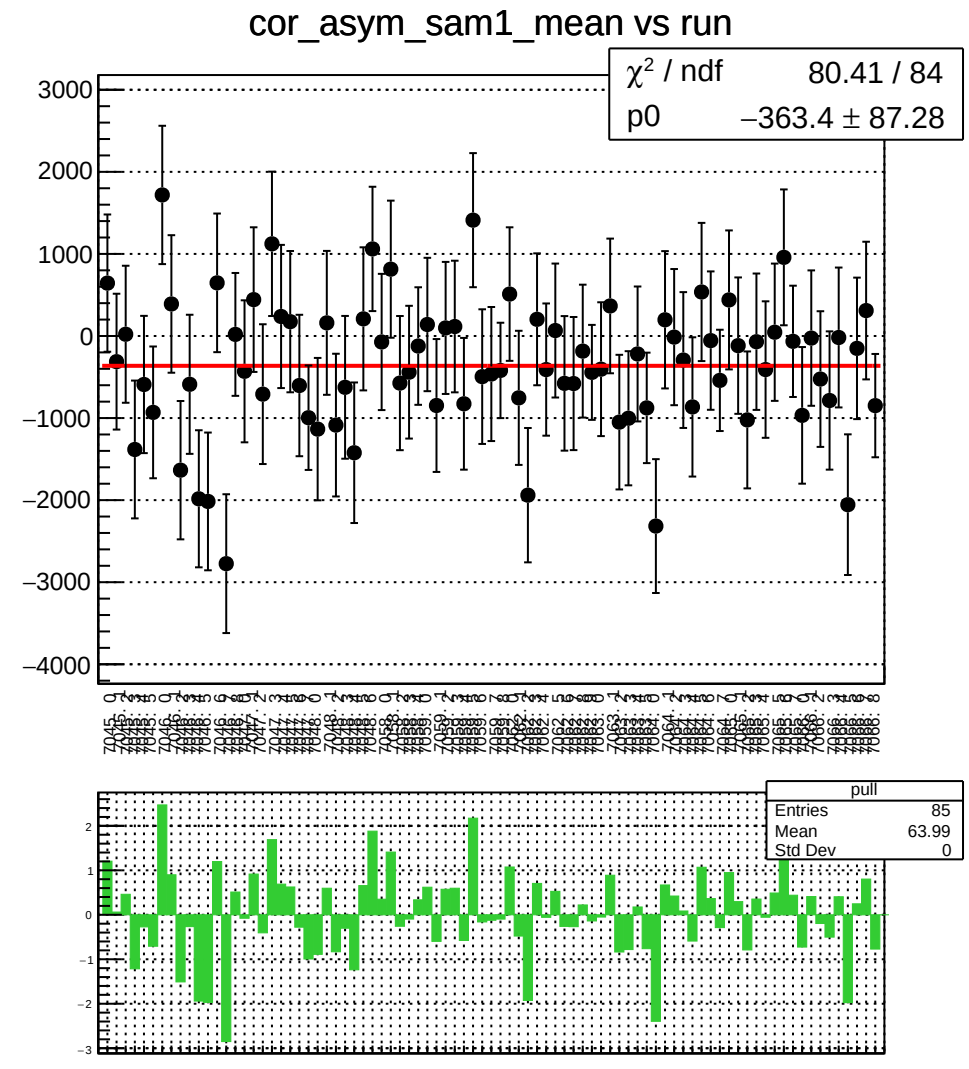

reg_asym_sam1_mean vs run
χ² / ndf 80.41 / 84
p0 −363.4 ± 87.28
pull
Entries 85
Mean 63.96
Std Dev 0
pull1D
Entries 85
Mean 0.007229
Std Dev 0.9726

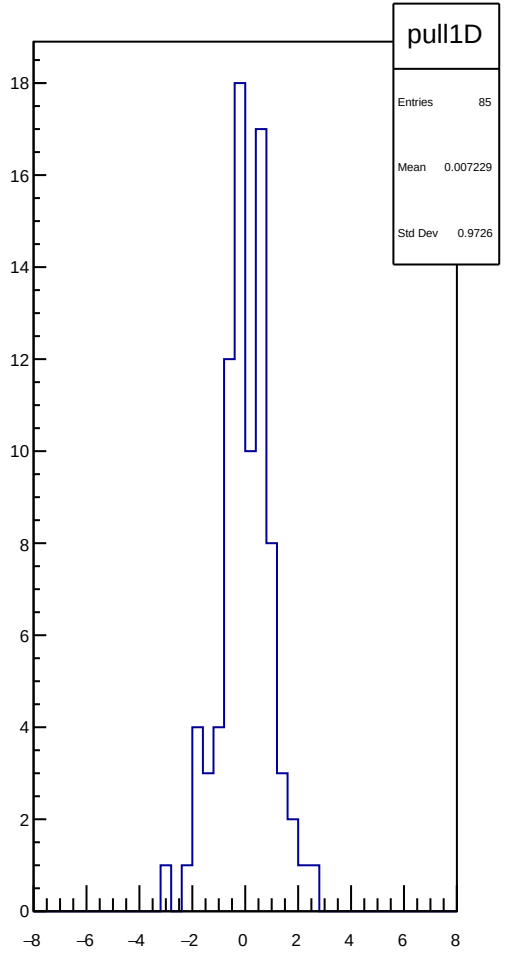

reg_asym_sam1_rms vs run
χ² / ndf 1055 / 84
p0 79.18 ± 0.06172
84
82
80
78
76

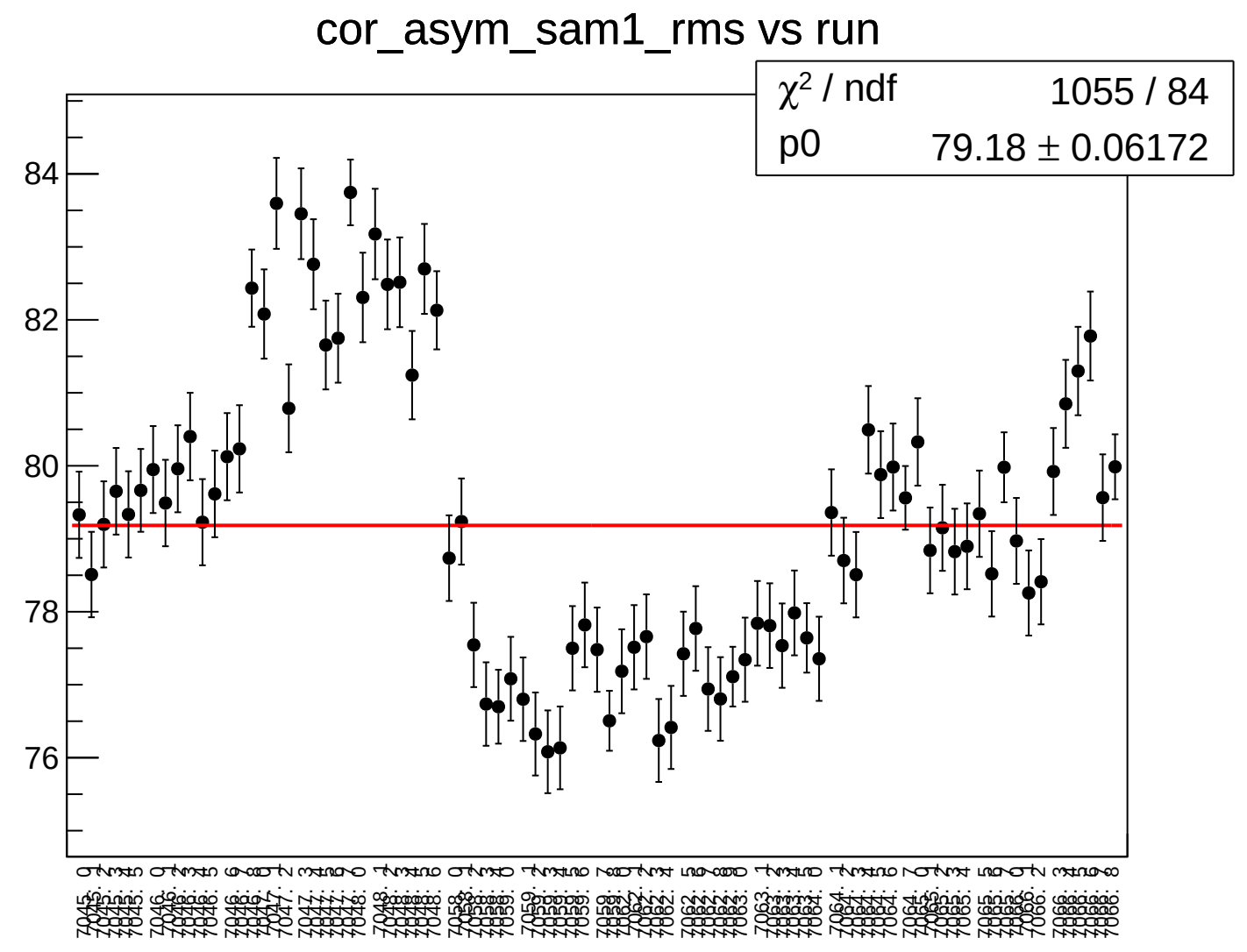

asym_sam1_reg_correction_mean vs run
χ² / ndf 80.34 / 84
p0 312.2 ± 352
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 224.8
Std Dev 0
2
1
0
−1
−2

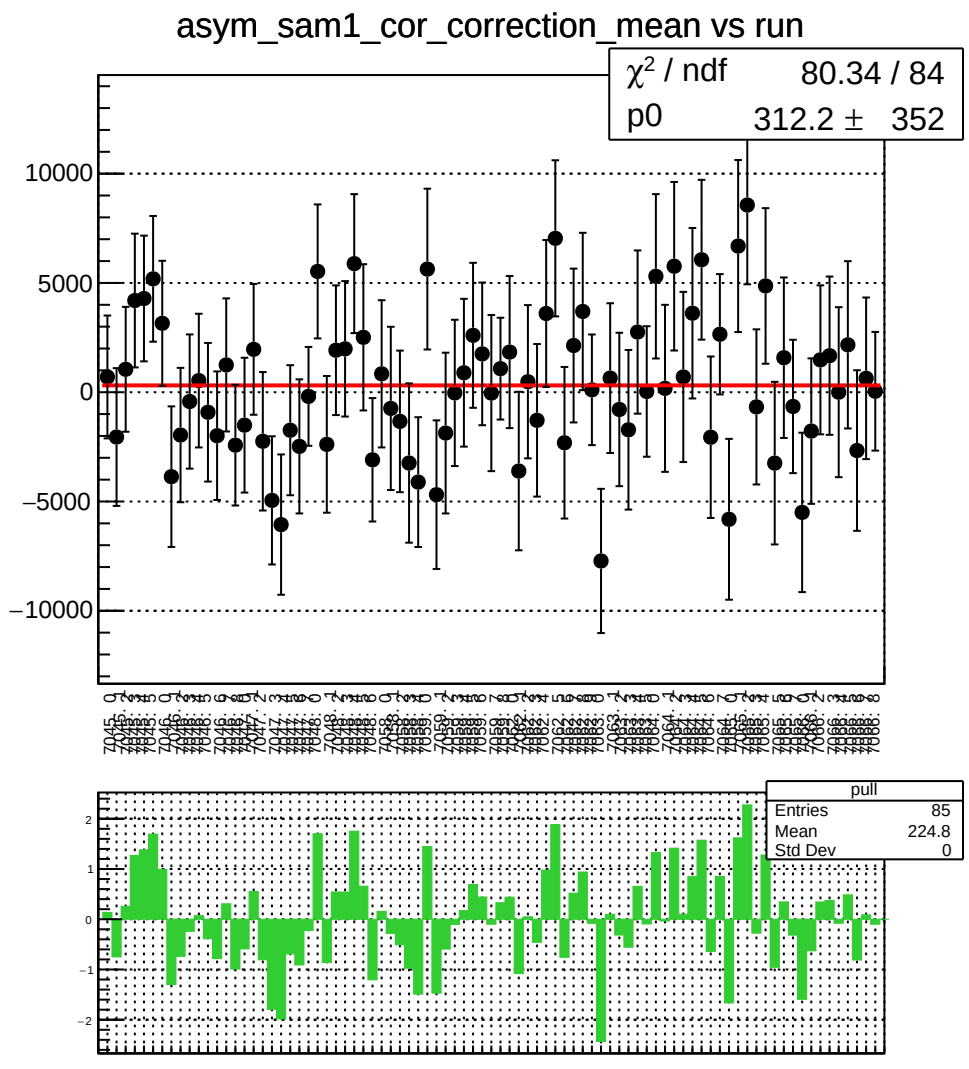

pull1D
Entries 85
Mean 0.01091
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

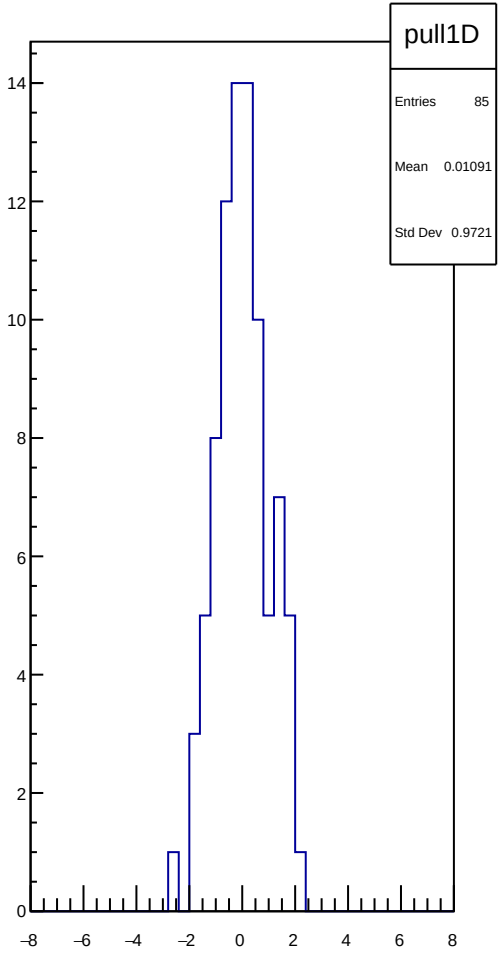

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.279e+04 / 84
p0 318.2 ± 0.2489
380
360
340
320
300
280
260

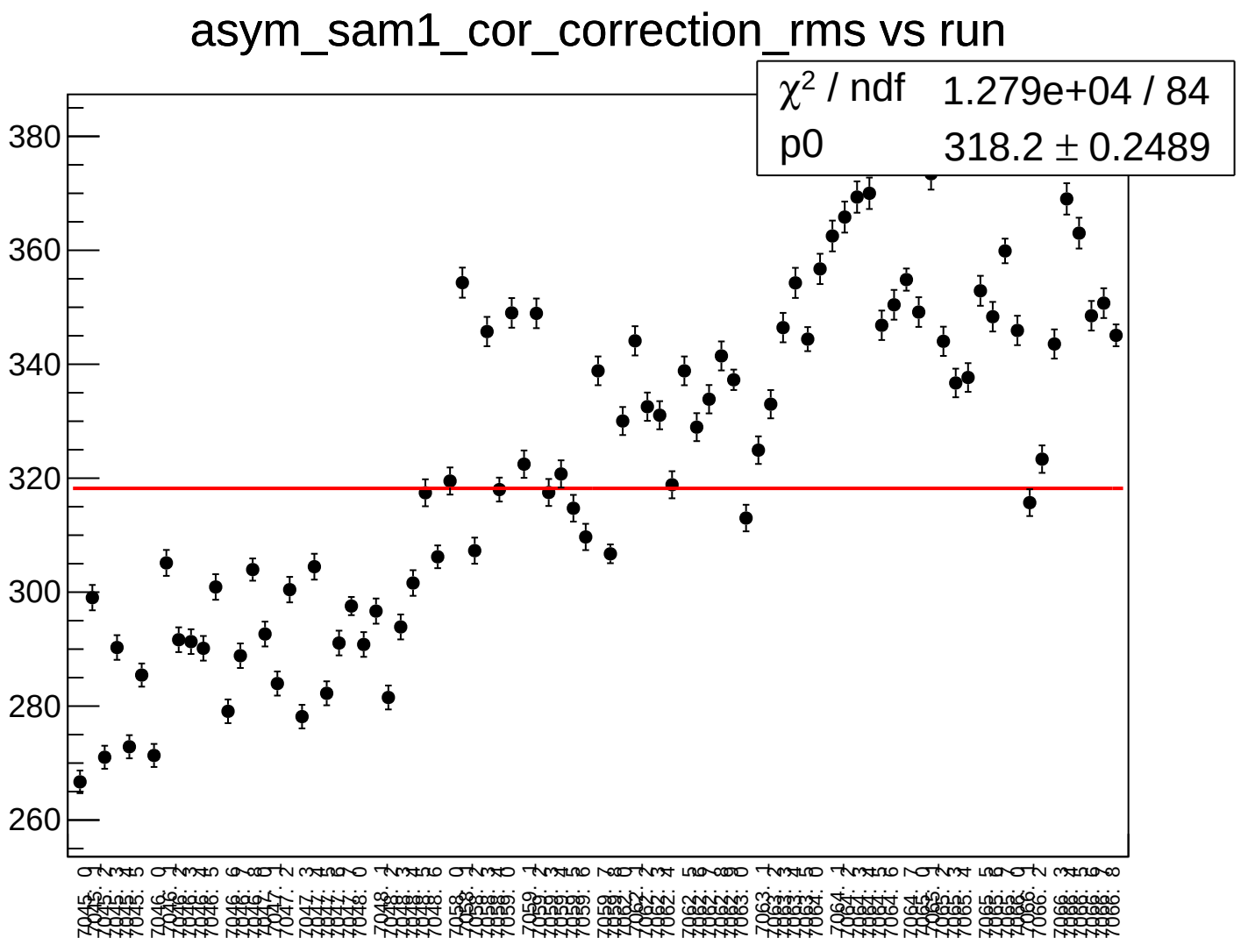

cor_asym_sam1_mean vs run
χ² / ndf 80.41 / 84
p0 −363.4 ± 87.28
pull
Entries 85
Mean 63.99
Std Dev 0

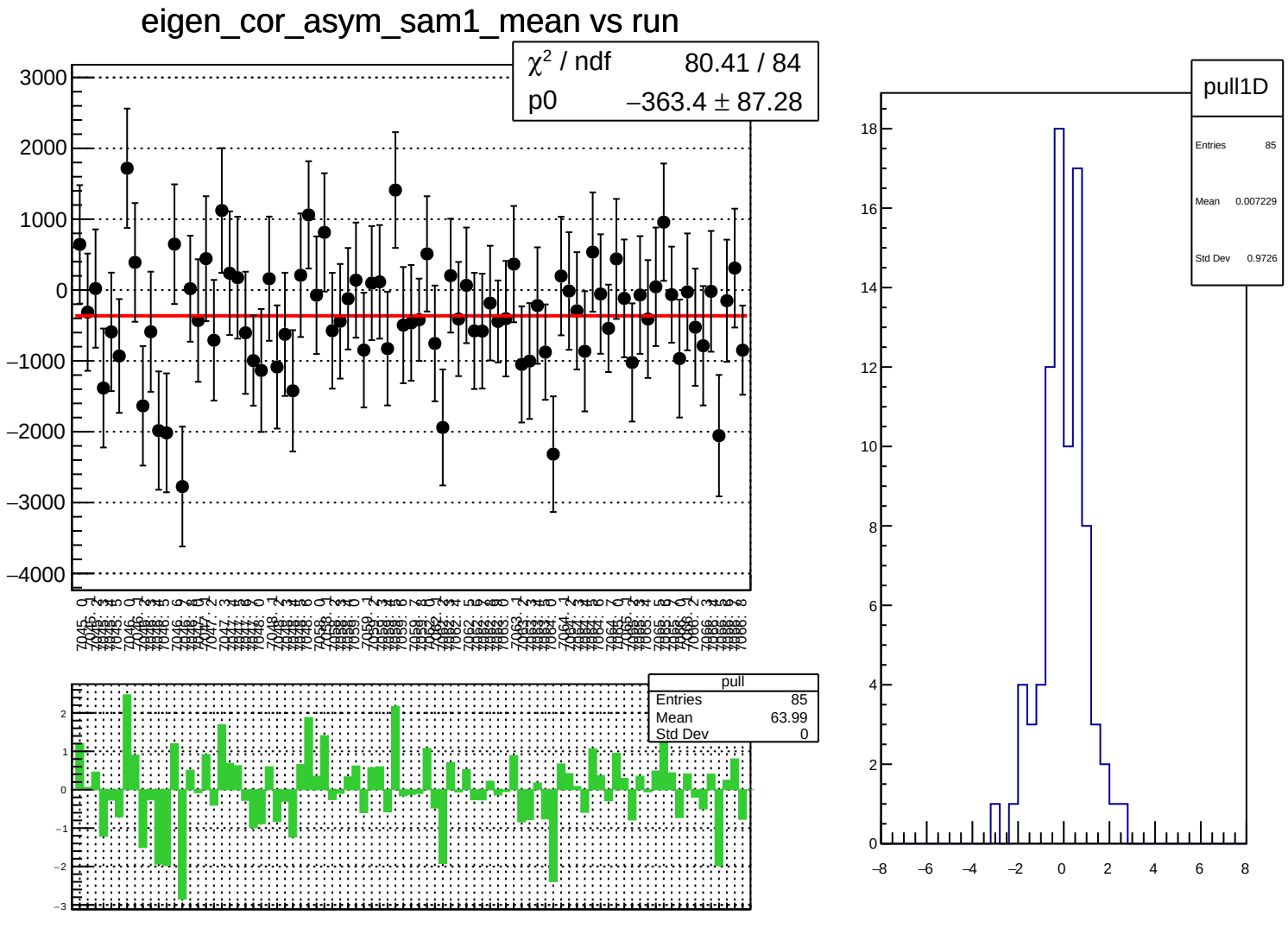

pull1D
Entries 85
Mean 0.007229
Std Dev 0.9726

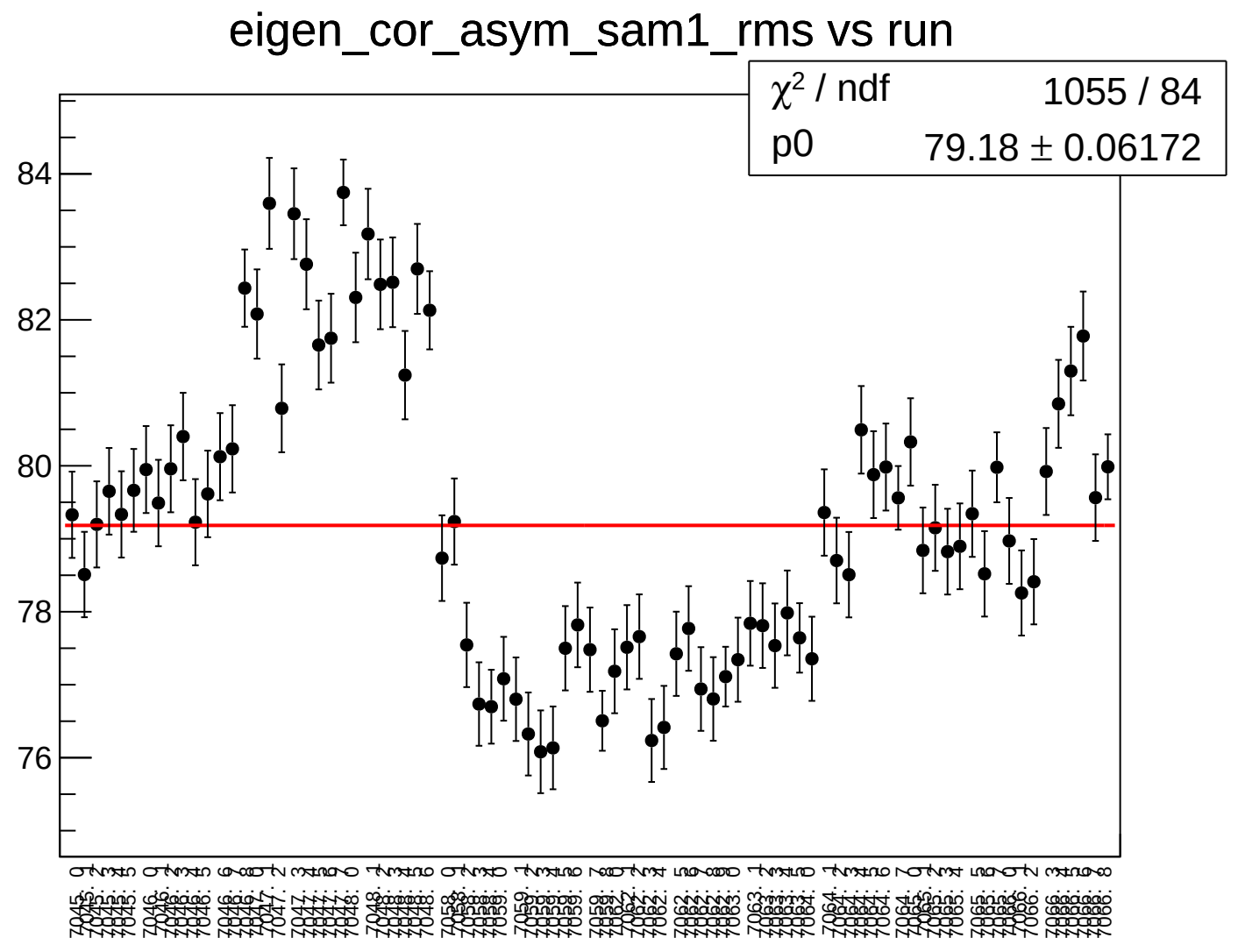

cor_asym_sam1_rms vs run
χ^2 / ndf 1055 / 84
p0 79.18 ± 0.06172
84
82
80
78
76

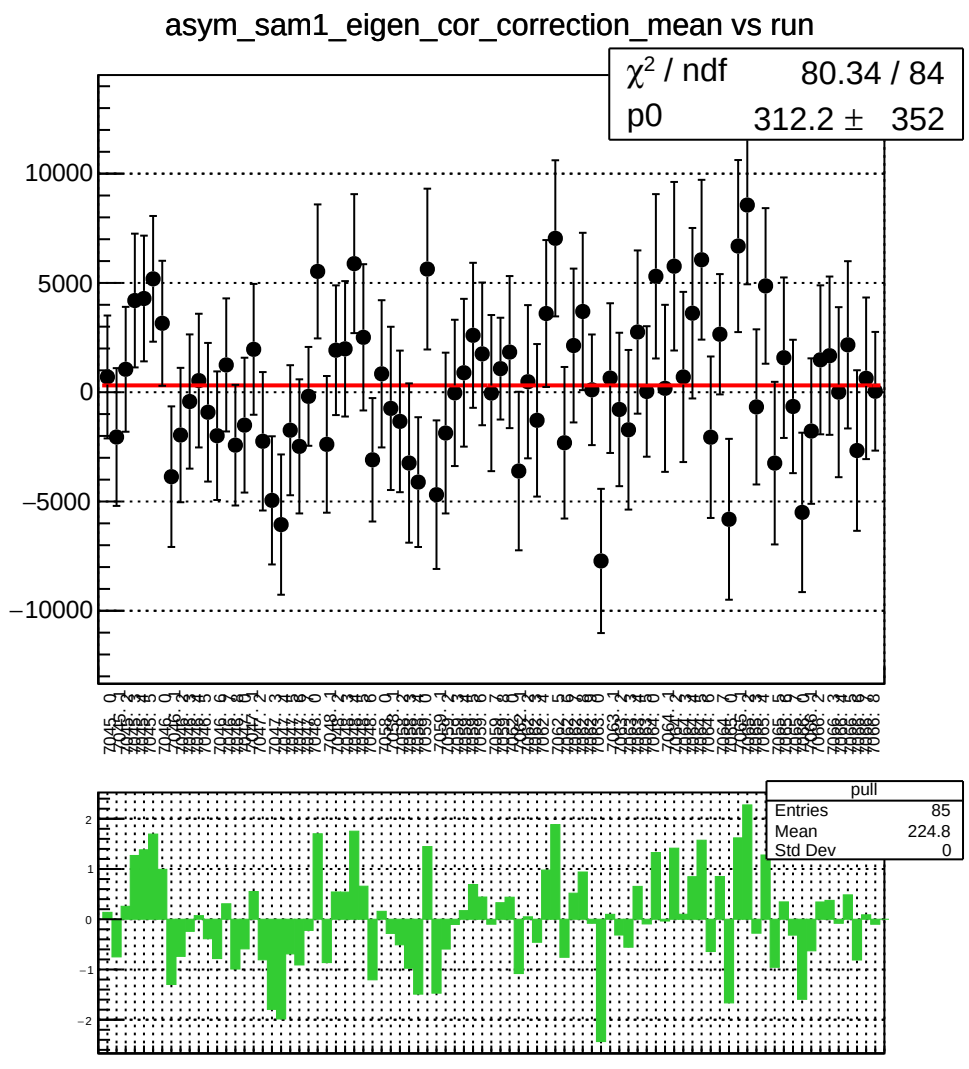

asym_sam1_cor_correction_mean vs run
χ² / ndf 80.34 / 84
p0 312.2 ± 352
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 224.8
Std Dev 0
2
1
0
−1
−2

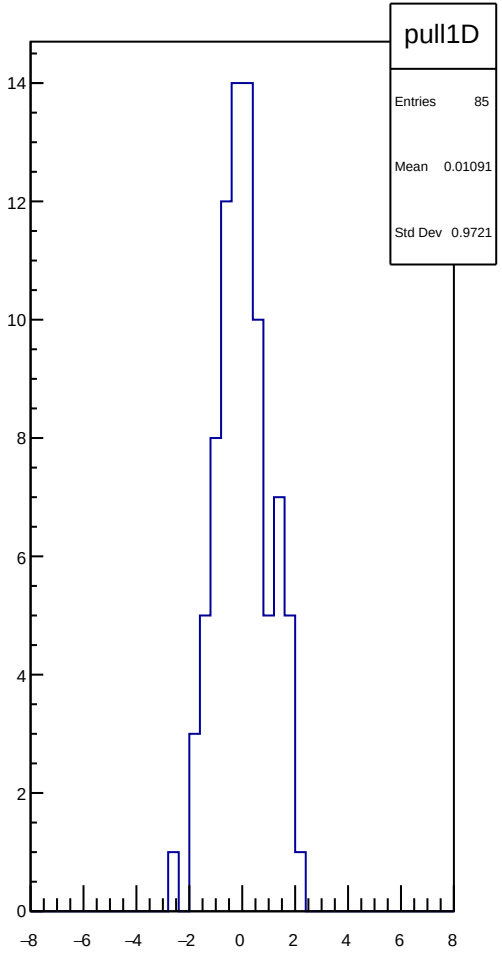

pull1D
Entries 85
Mean 0.01091
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

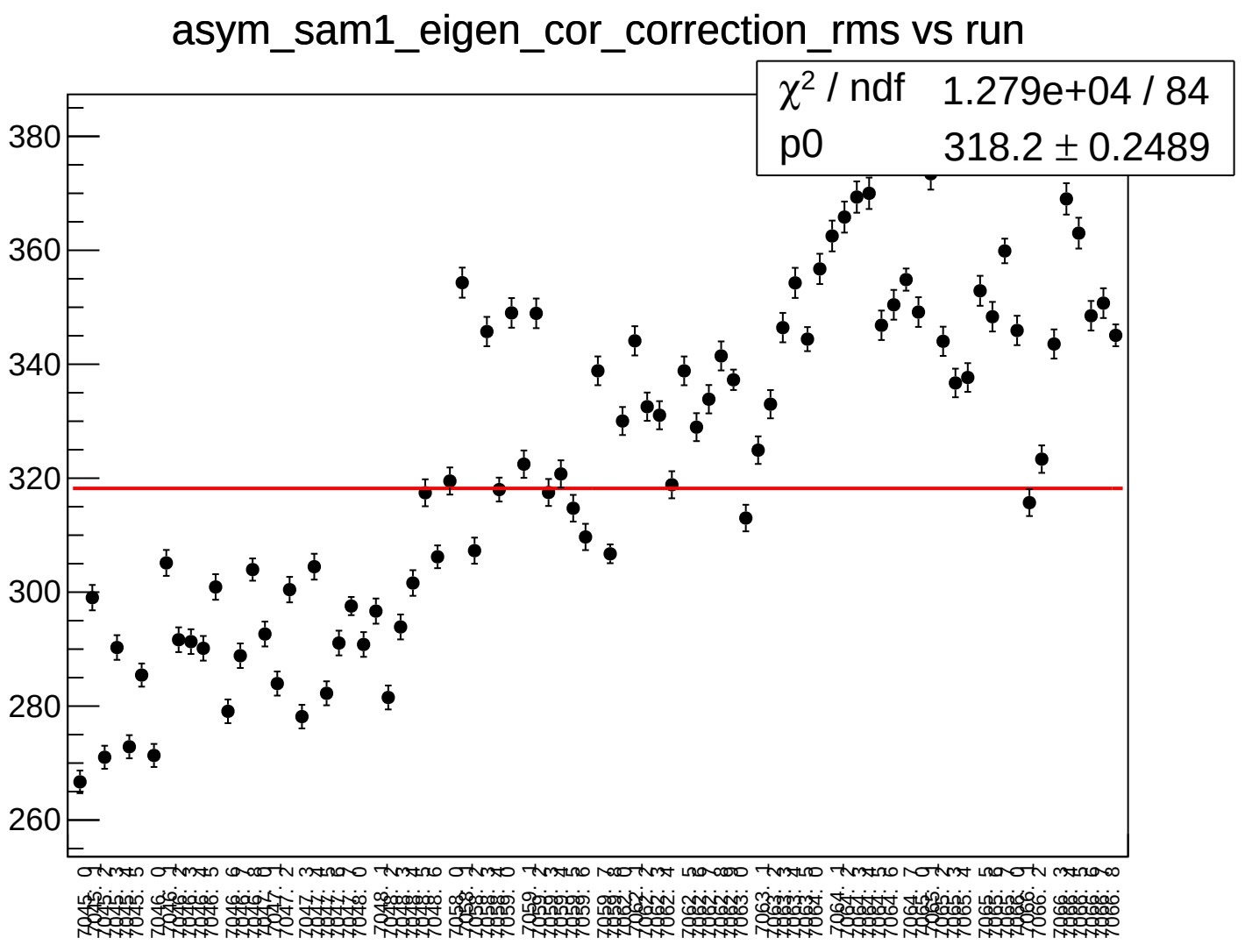

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.279e+04 / 84
p0 318.2 ± 0.2489
380
360
340
320
300
280
260

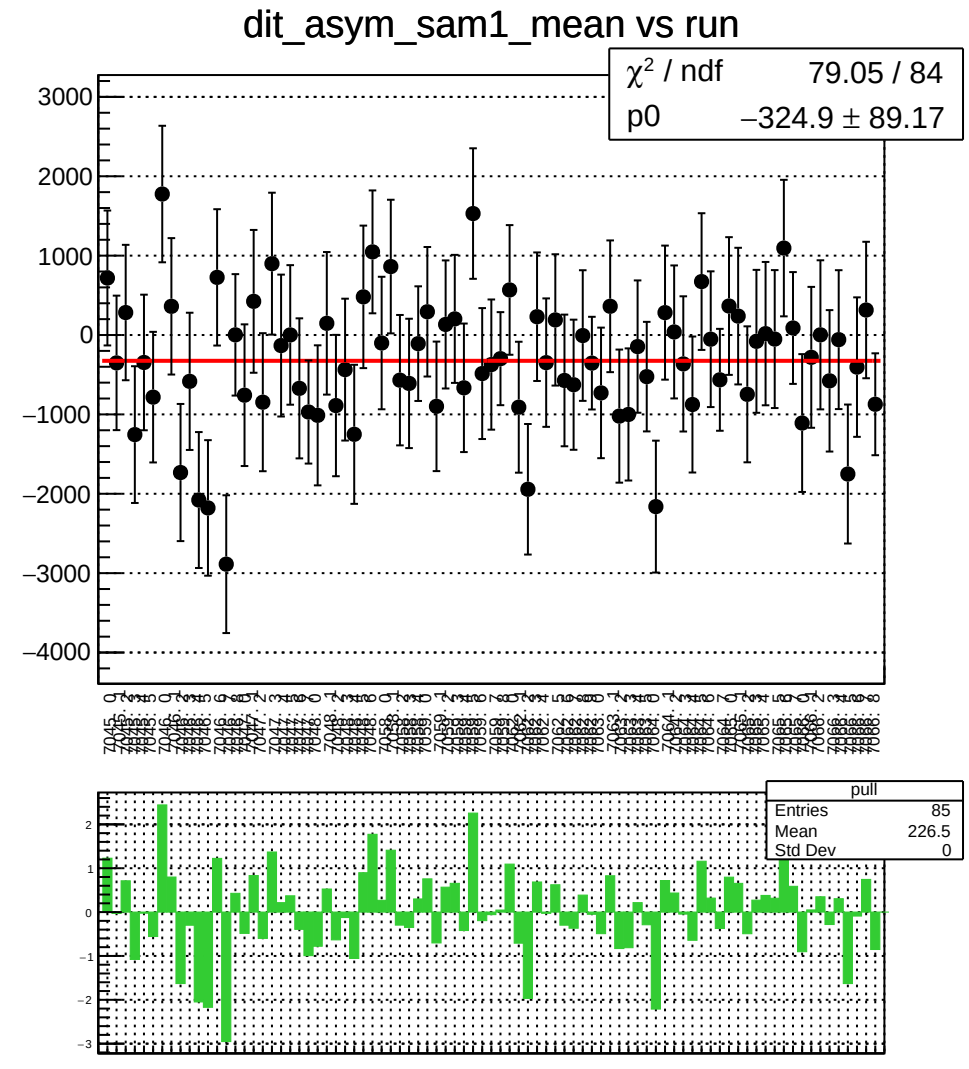

eigen_cor_asym_sam1_mean vs run
χ² / ndf 80.41 / 84
p0 −363.4 ± 87.28
pull
Entries 85
Mean 63.99
Std Dev 0
pull1D
Entries 85
Mean 0.007229
Std Dev 0.9726

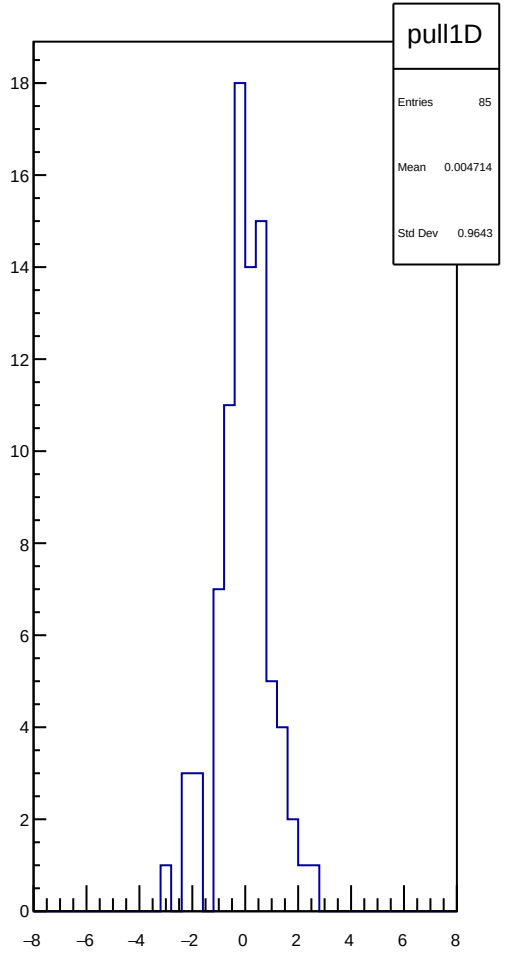

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1055 / 84
p0 79.18 ± 0.06172
84
82
80
78
76

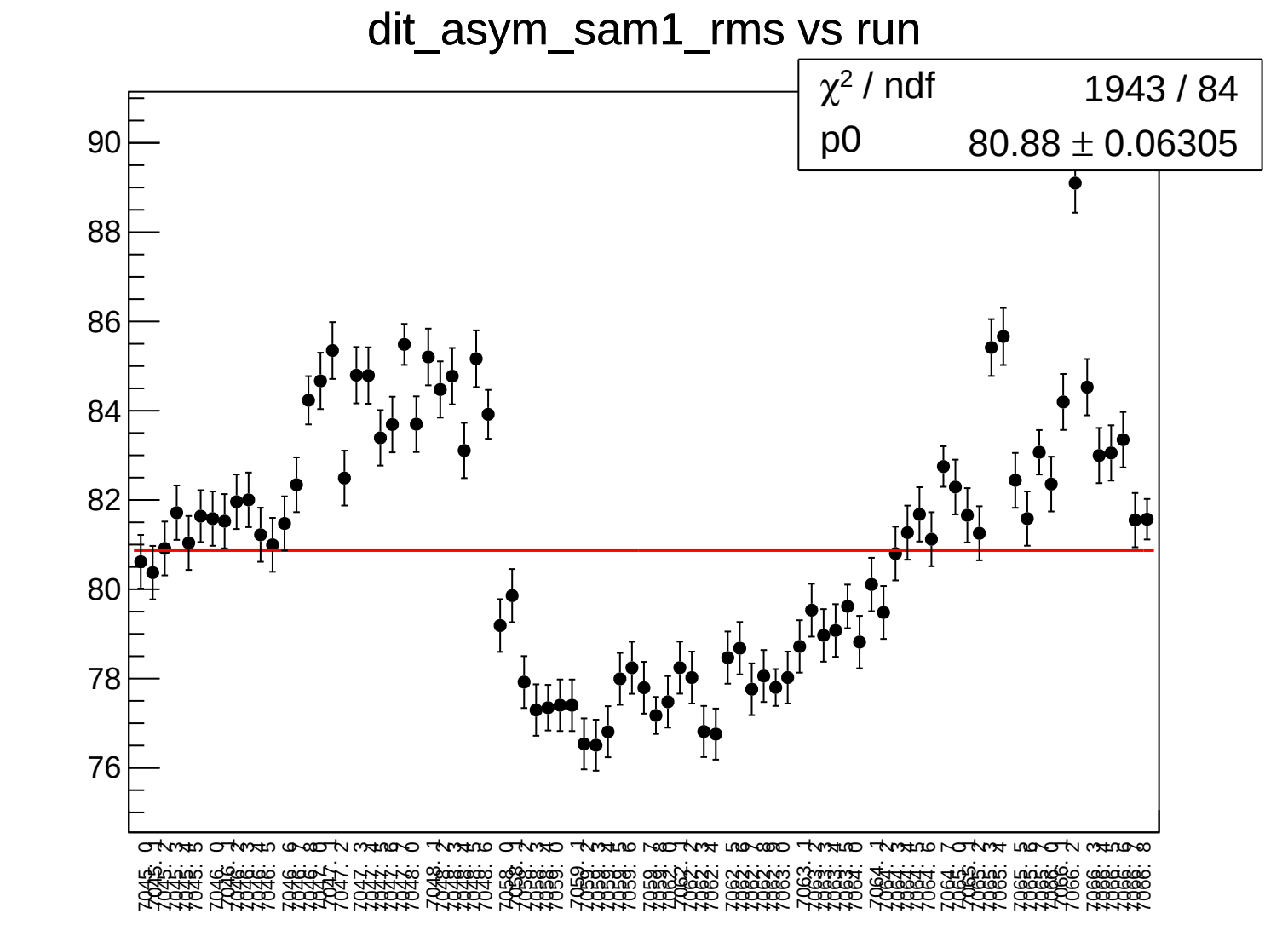

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 80.34 / 84
p0 312.2 ± 352
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 224.8
Std Dev 0
2
1
0
−1
−2

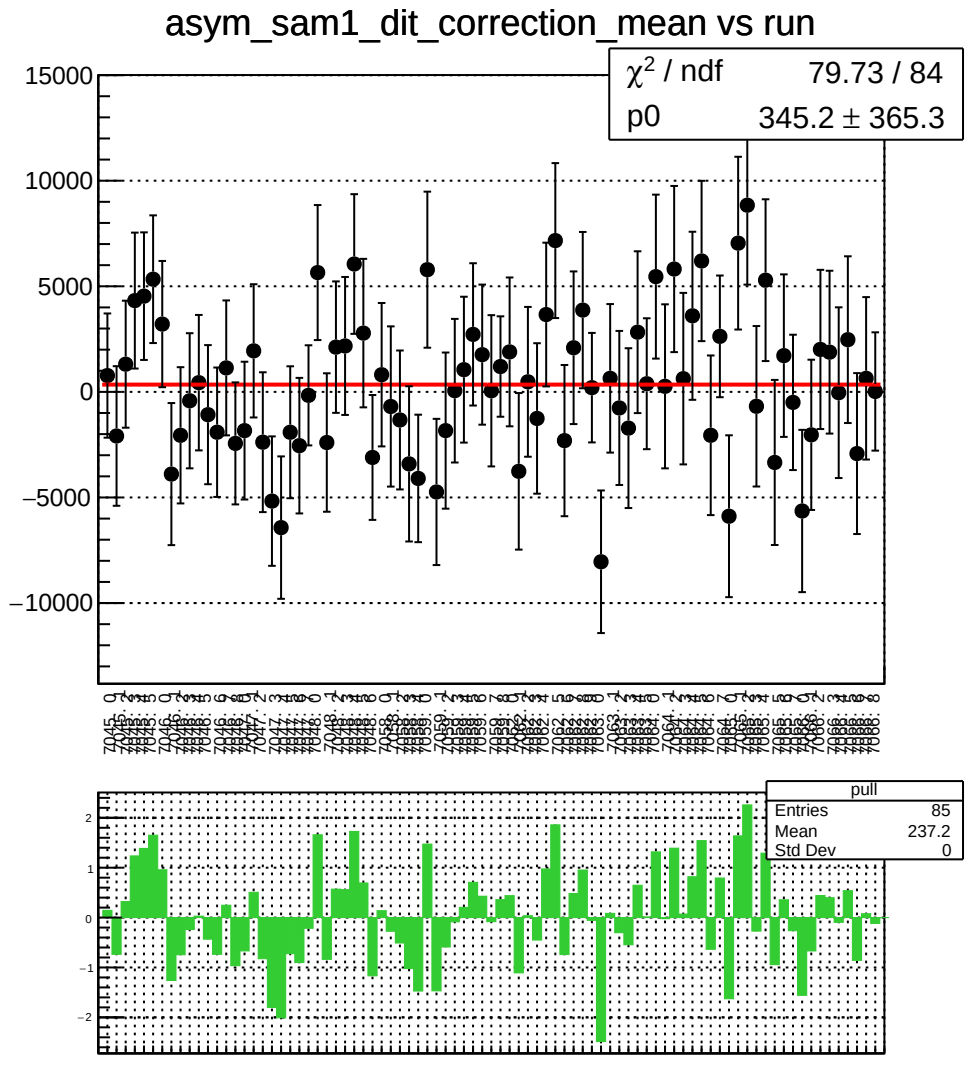

pull1D
Entries 85
Mean 0.01091
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

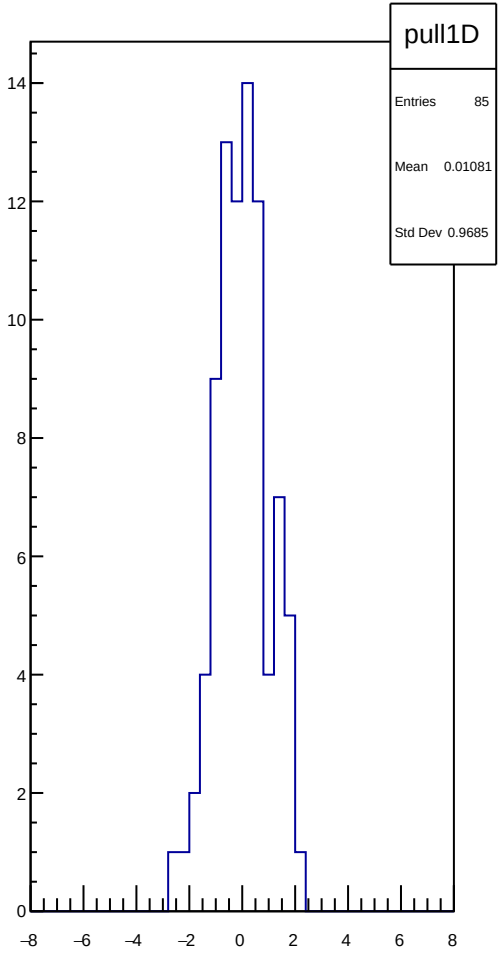

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.279e+04 / 84
p0 318.2 ± 0.2489
380
360
340
320
300
280
260

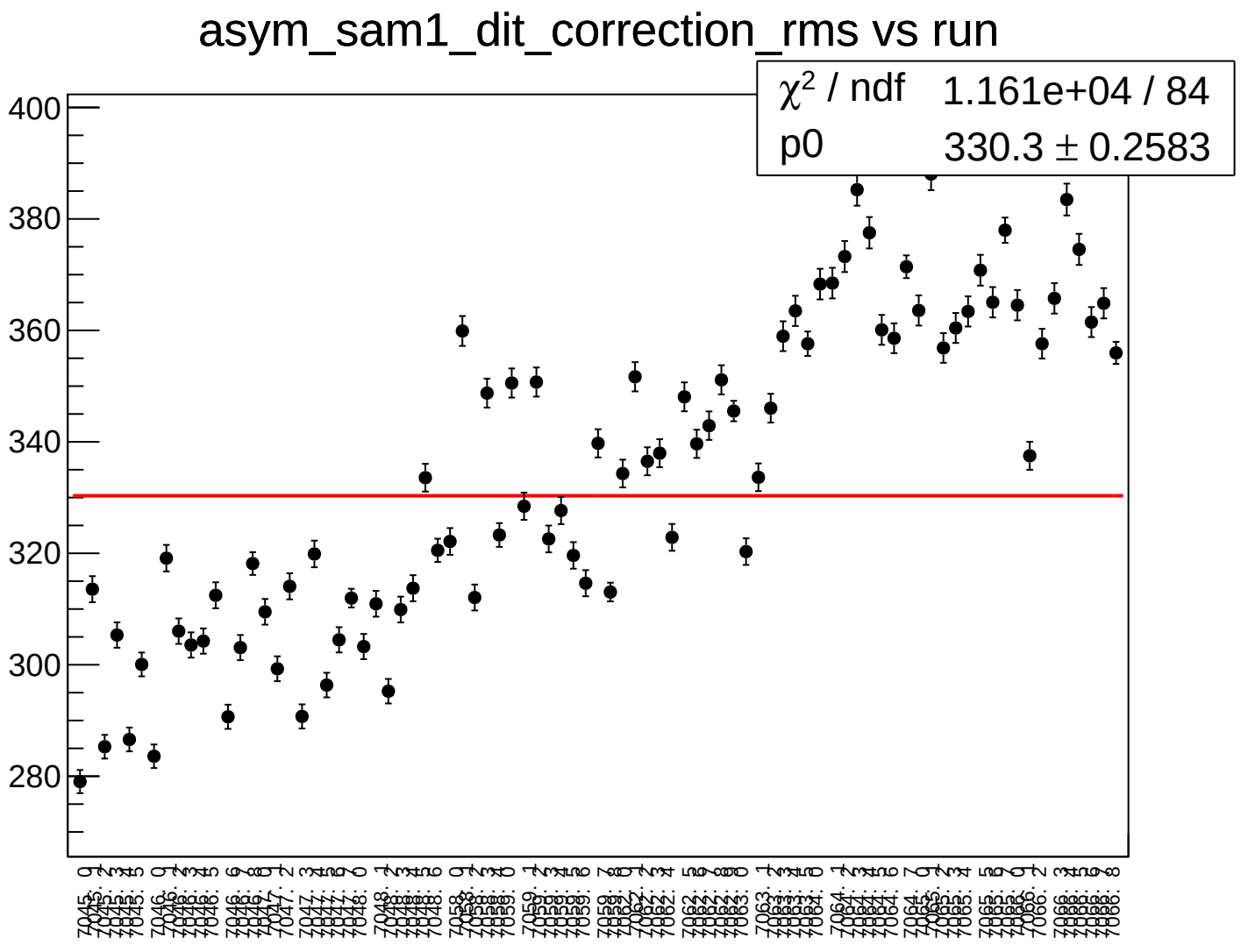

dit_asym_sam1_mean vs run
χ² / ndf 79.05 / 84
p0 −324.9 ± 89.17
pull
Entries 85
Mean 226.5
Std Dev 0

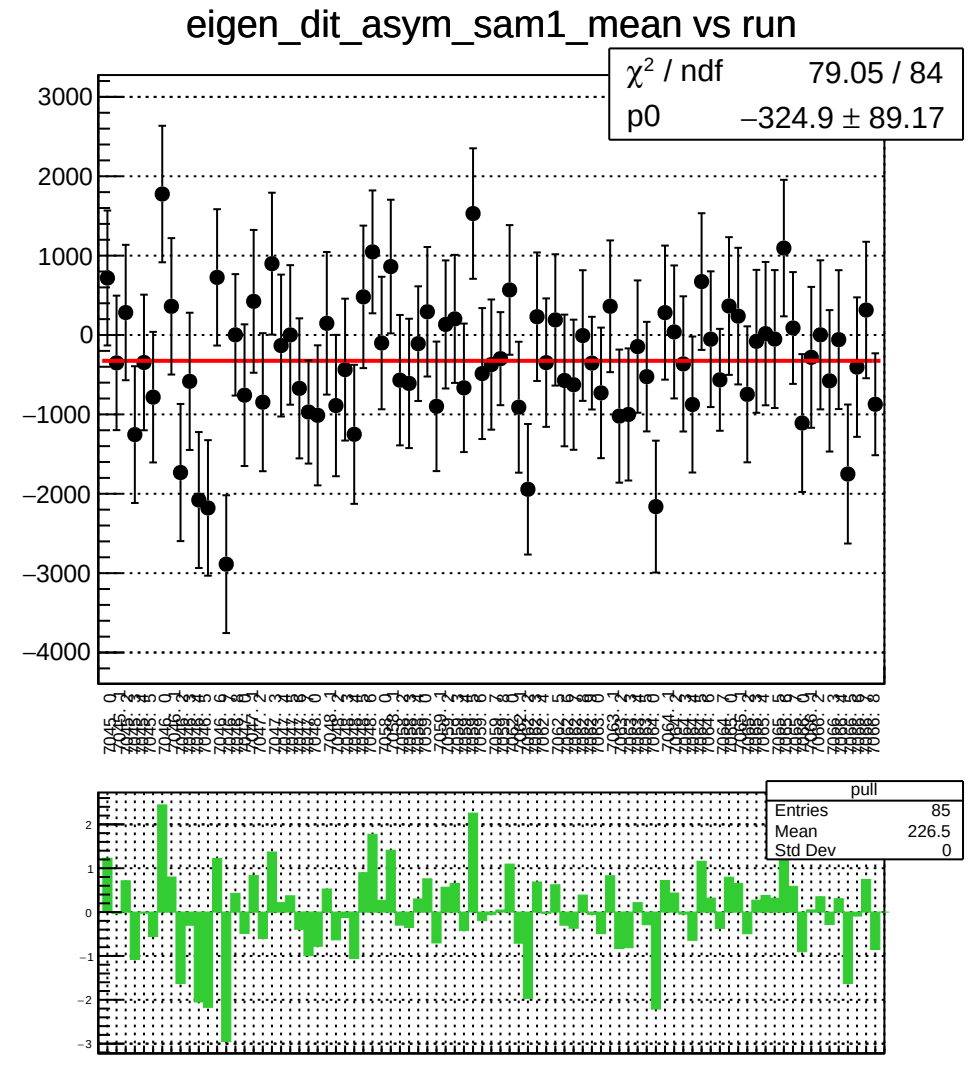

pull1D
Entries 85
Mean 0.004714
Std Dev 0.9643

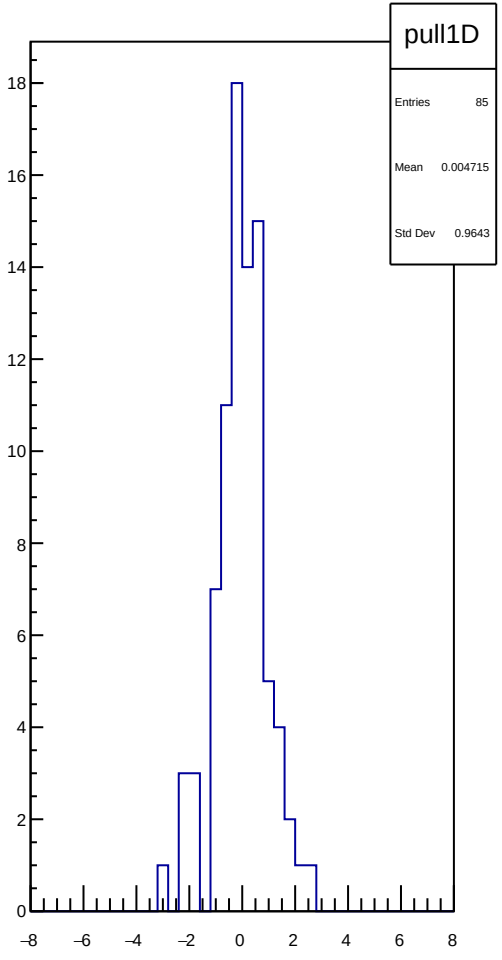

dit_asym_sam1_rms vs run
χ^2 / ndf 1943 / 84
p0 80.88 ± 0.06305
90
88
86
84
82
80
78
76

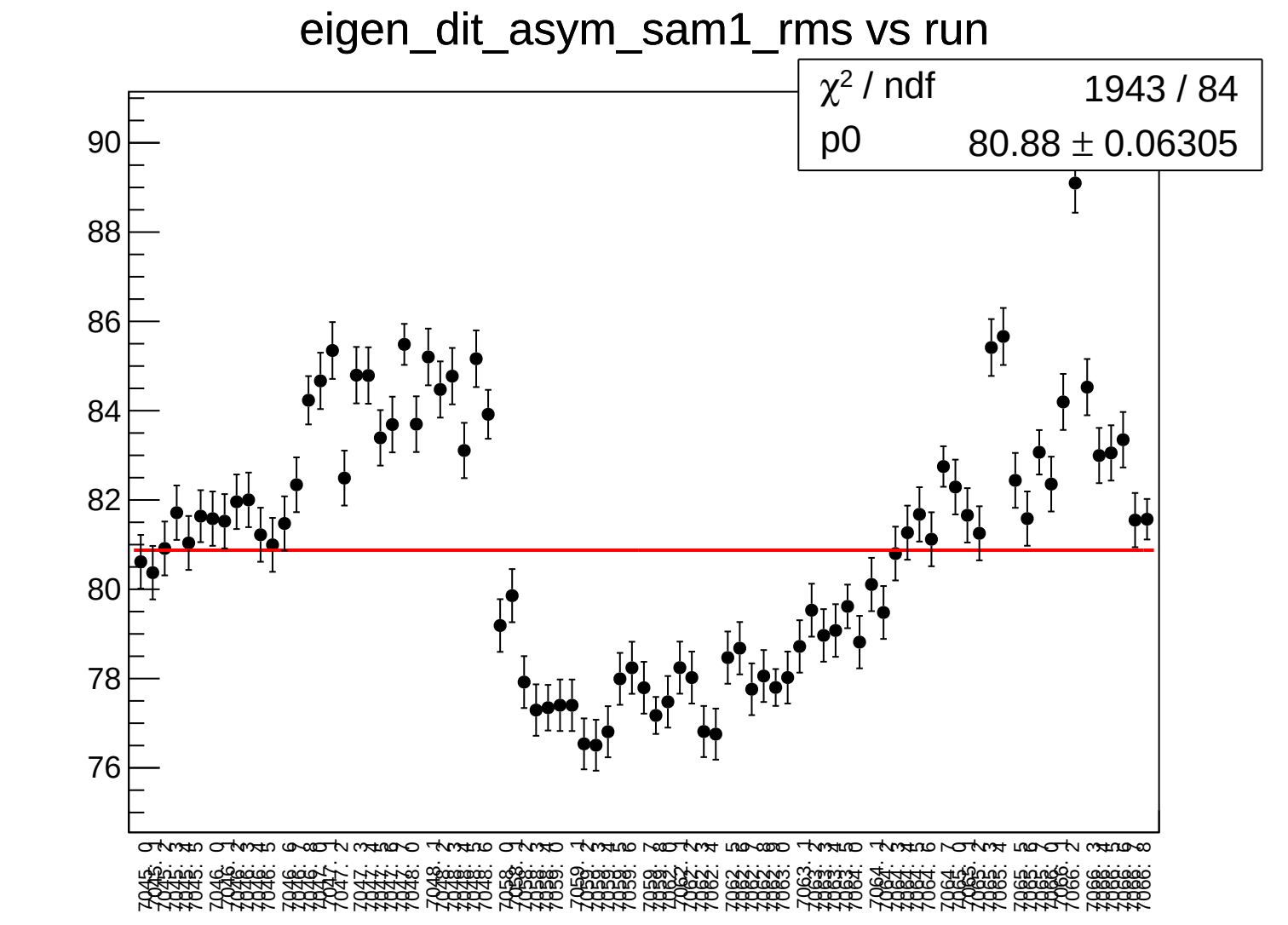

asym_sam1_dit_correction_mean vs run
χ² / ndf 79.73 / 84
p0 345.2 ± 365.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 237.2
Std Dev 0
2
1
0
−1
−2

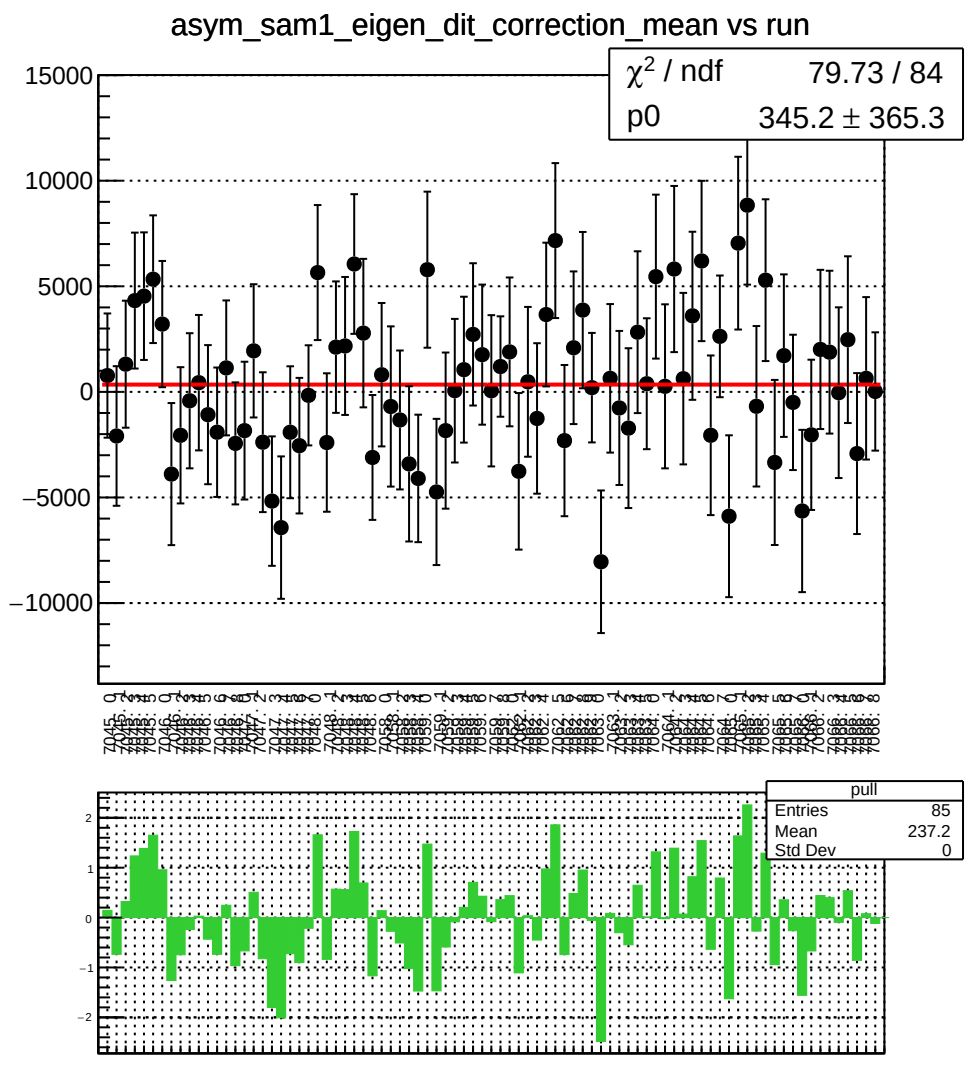

pull1D
Entries 85
Mean 0.01081
Std Dev 0.9685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

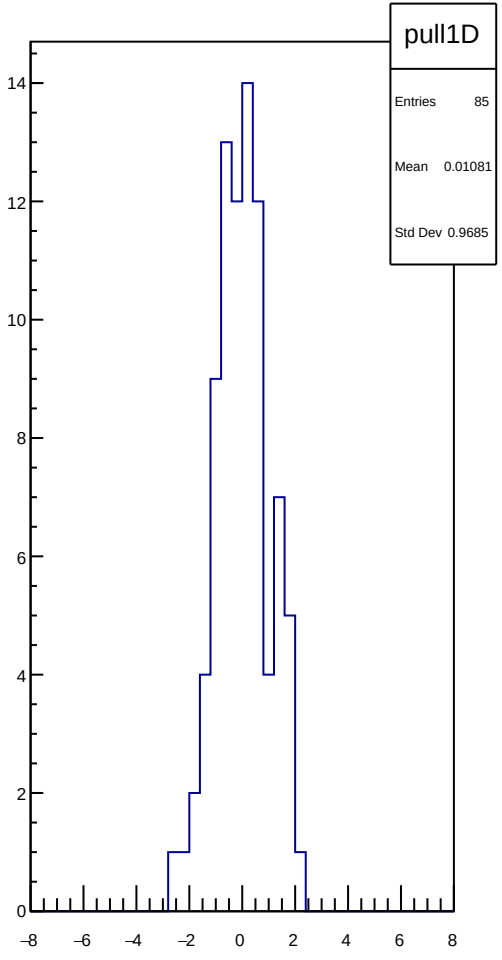

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.161e+04 / 84
p0 330.3 ± 0.2583
400
380
360
340
320
300
280

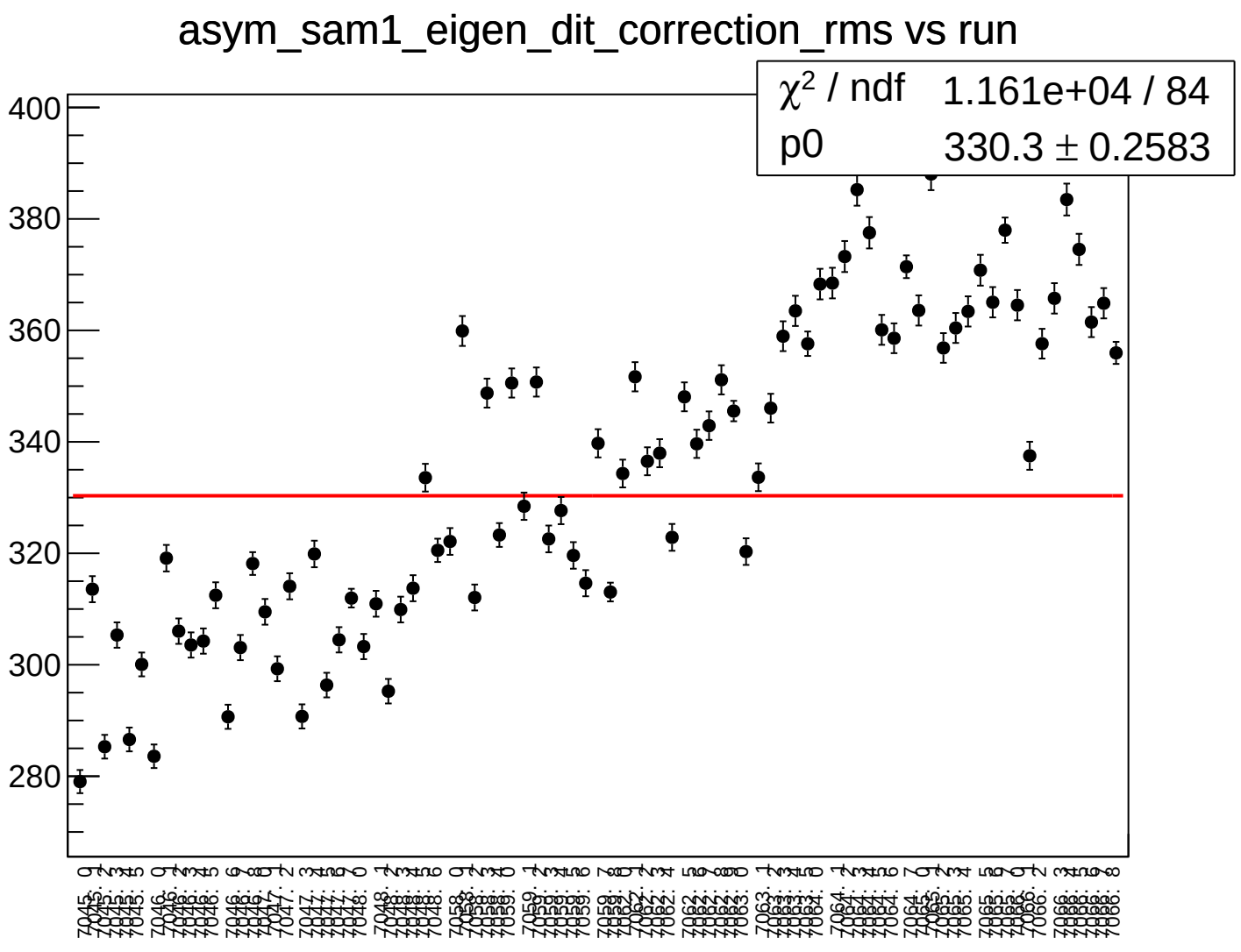

eigen_dit_asym_sam1_mean vs run
χ² / ndf 79.05 / 84
p0 −324.9 ± 89.17
pull
Entries 85
Mean 226.5
Std Dev 0

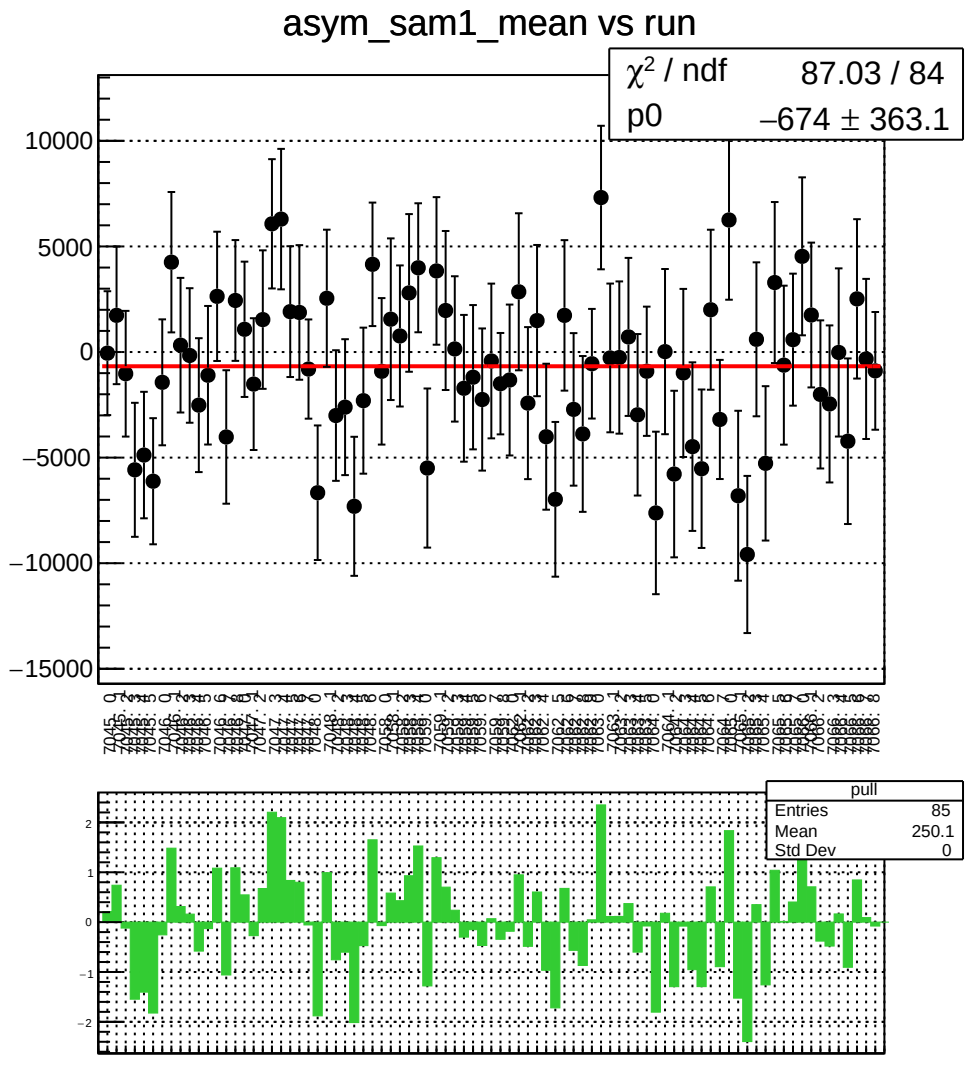

pull1D
Entries 85
Mean 0.004715
Std Dev 0.9643

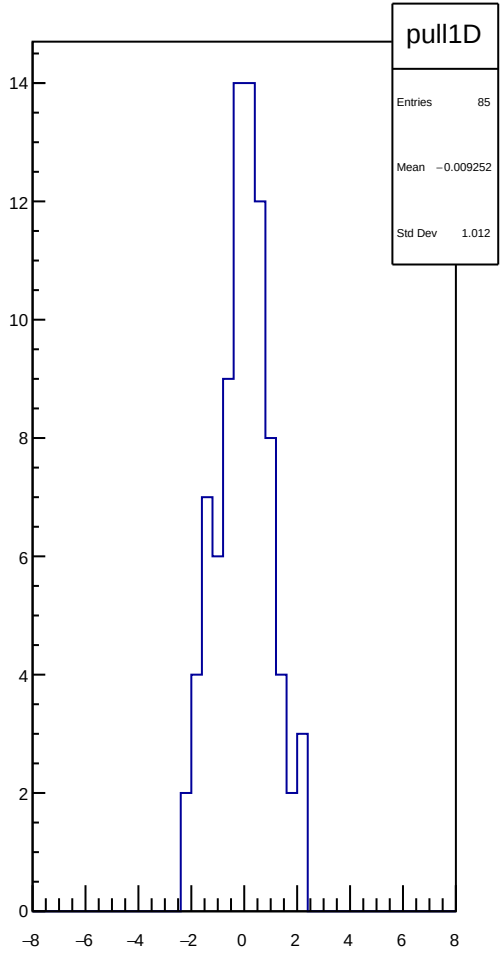

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 1943 / 84
p0 80.88 ± 0.06305
90
88
86
84
82
80
78
76

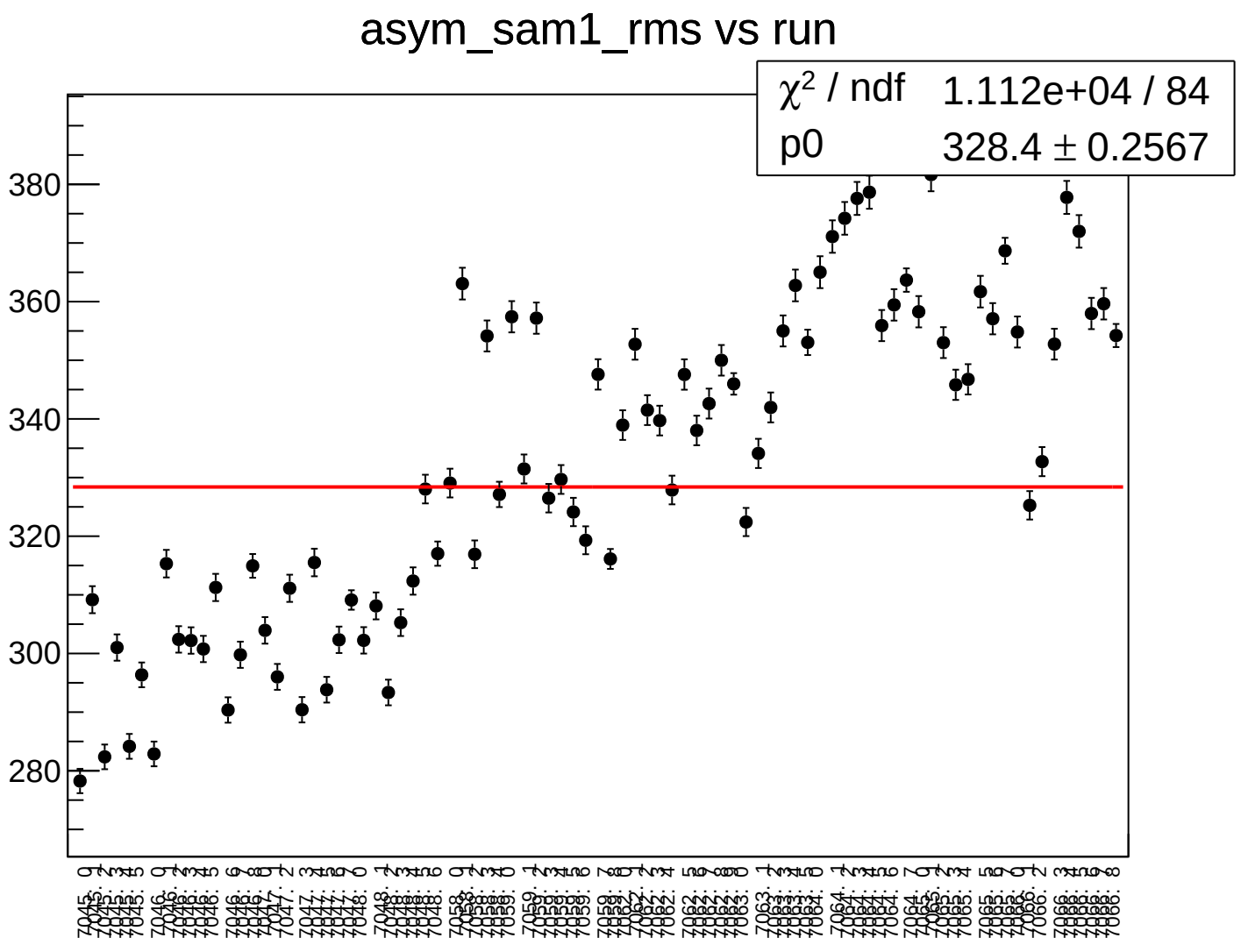

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 79.73 / 84
p0 345.2 ± 365.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 237.2
Std Dev 0
2
1
0
−1
−2

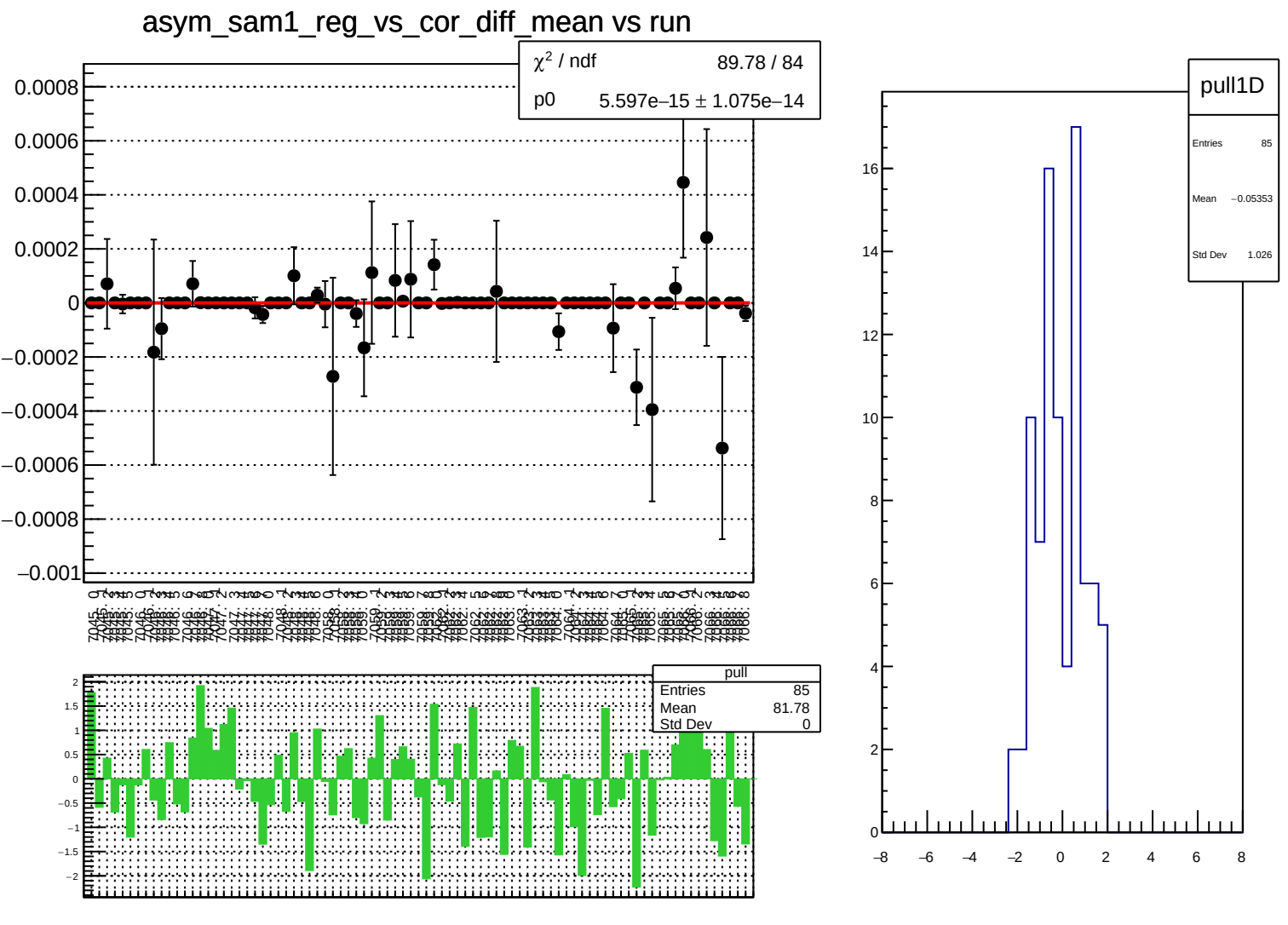

pull1D
Entries 85
Mean 0.01081
Std Dev 0.9685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

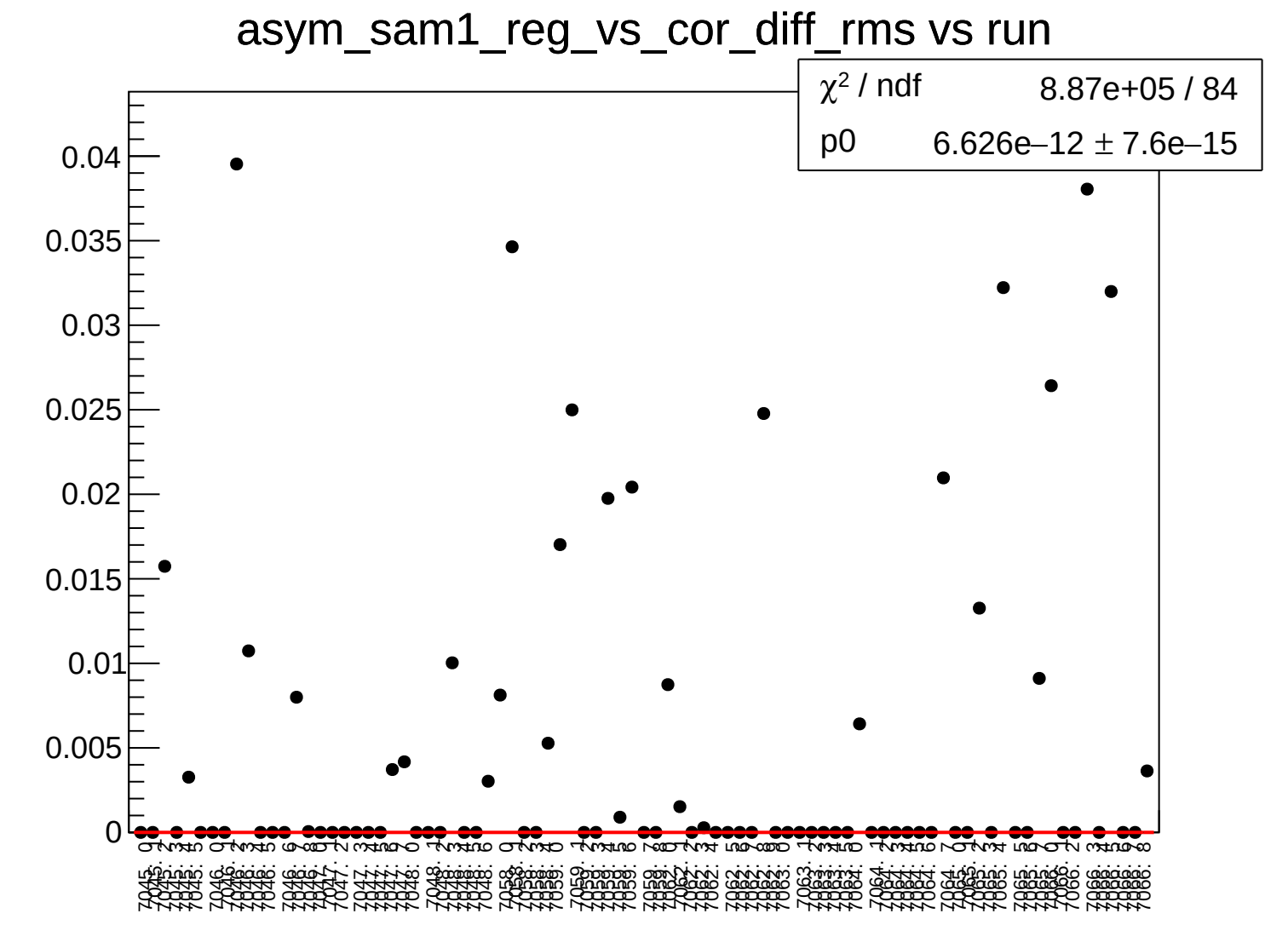

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.161e+04 / 84
p0 330.3 ± 0.2583
400
380
360
340
320
300
280

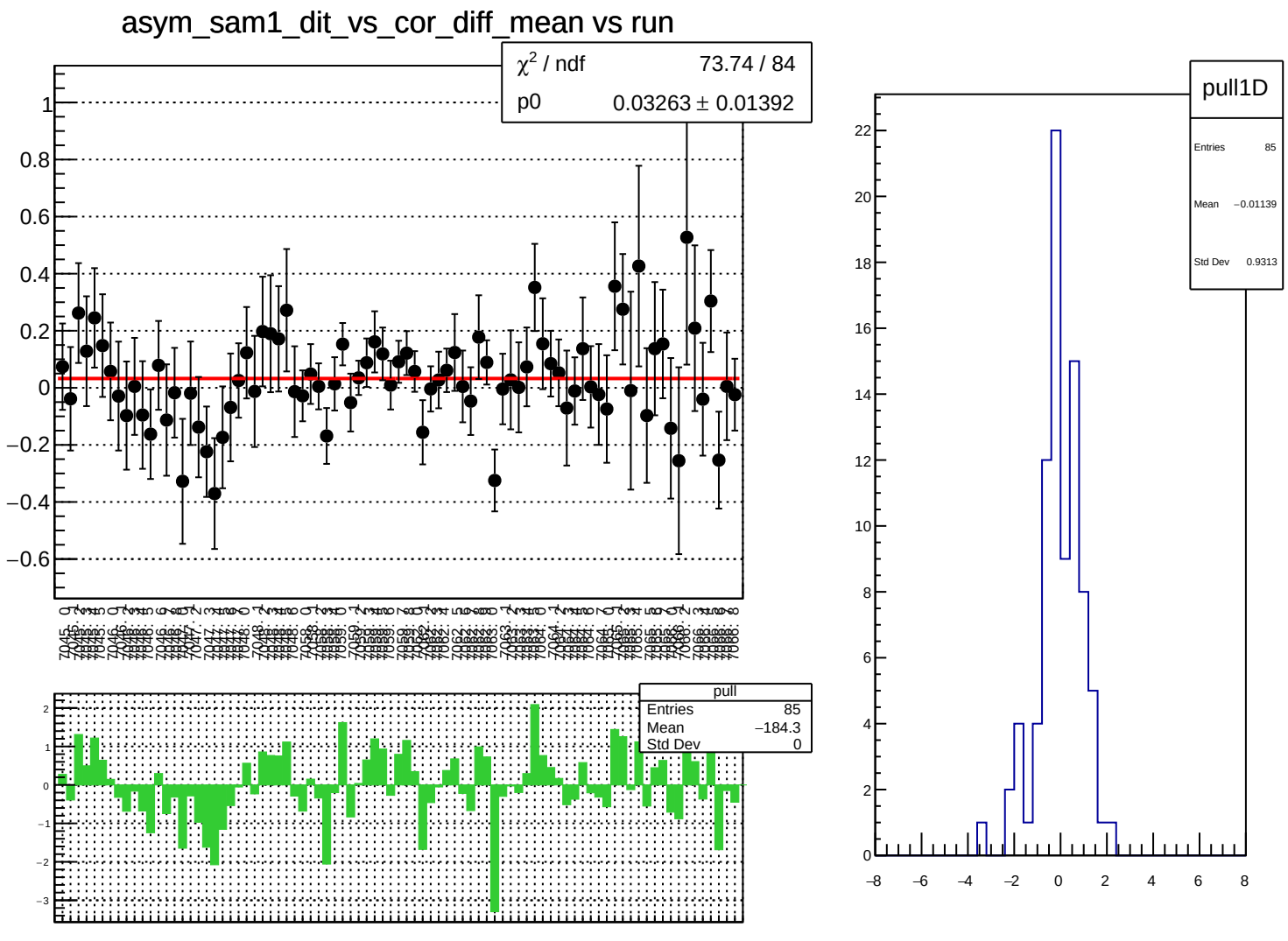

asym_sam1_mean vs run
χ² / ndf 87.03 / 84
p0 −674 ± 363.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 250.1
Std Dev 0
2
1
0
−1
−2

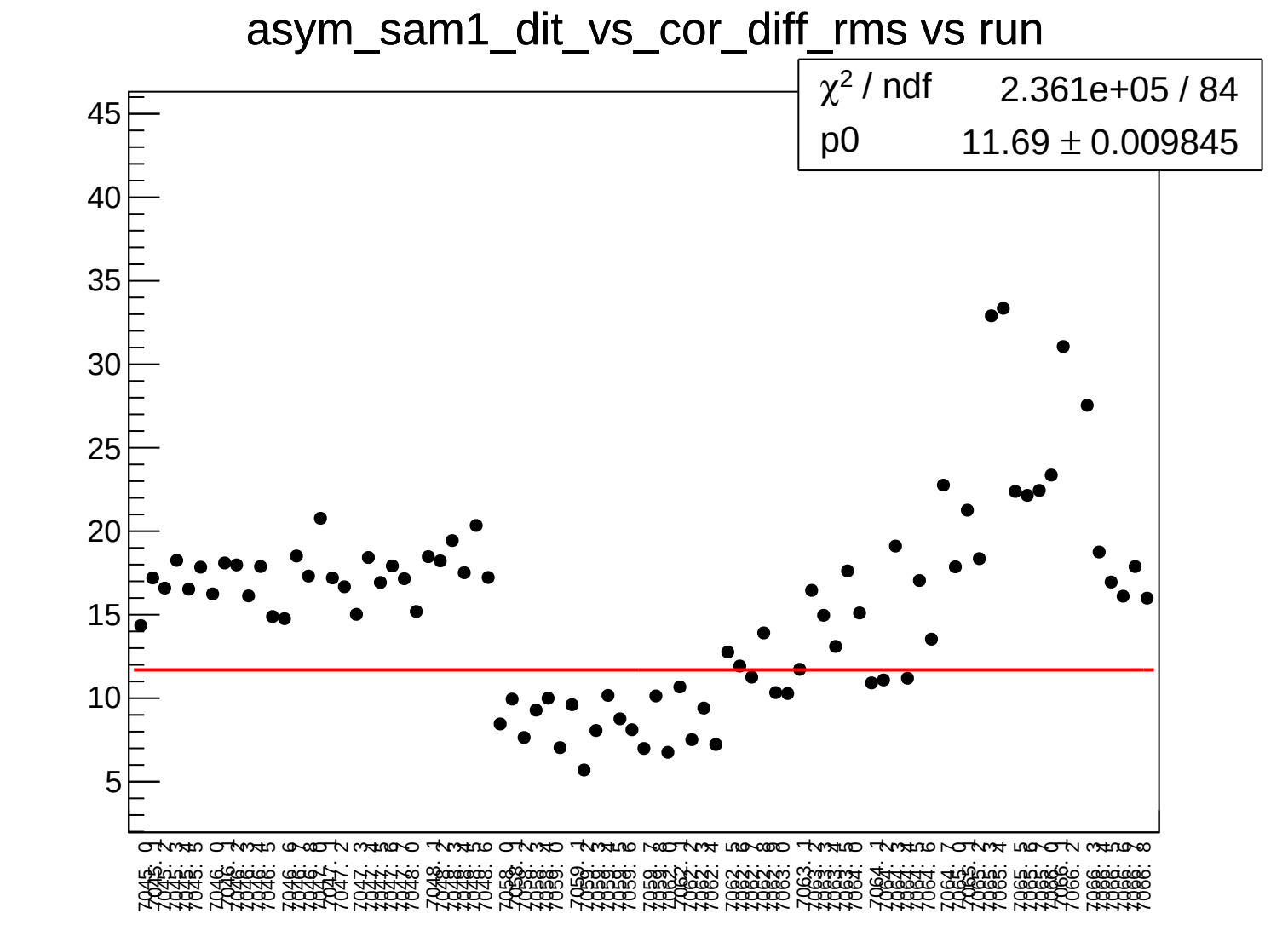

pull1D
Entries 85
Mean −0.009252
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

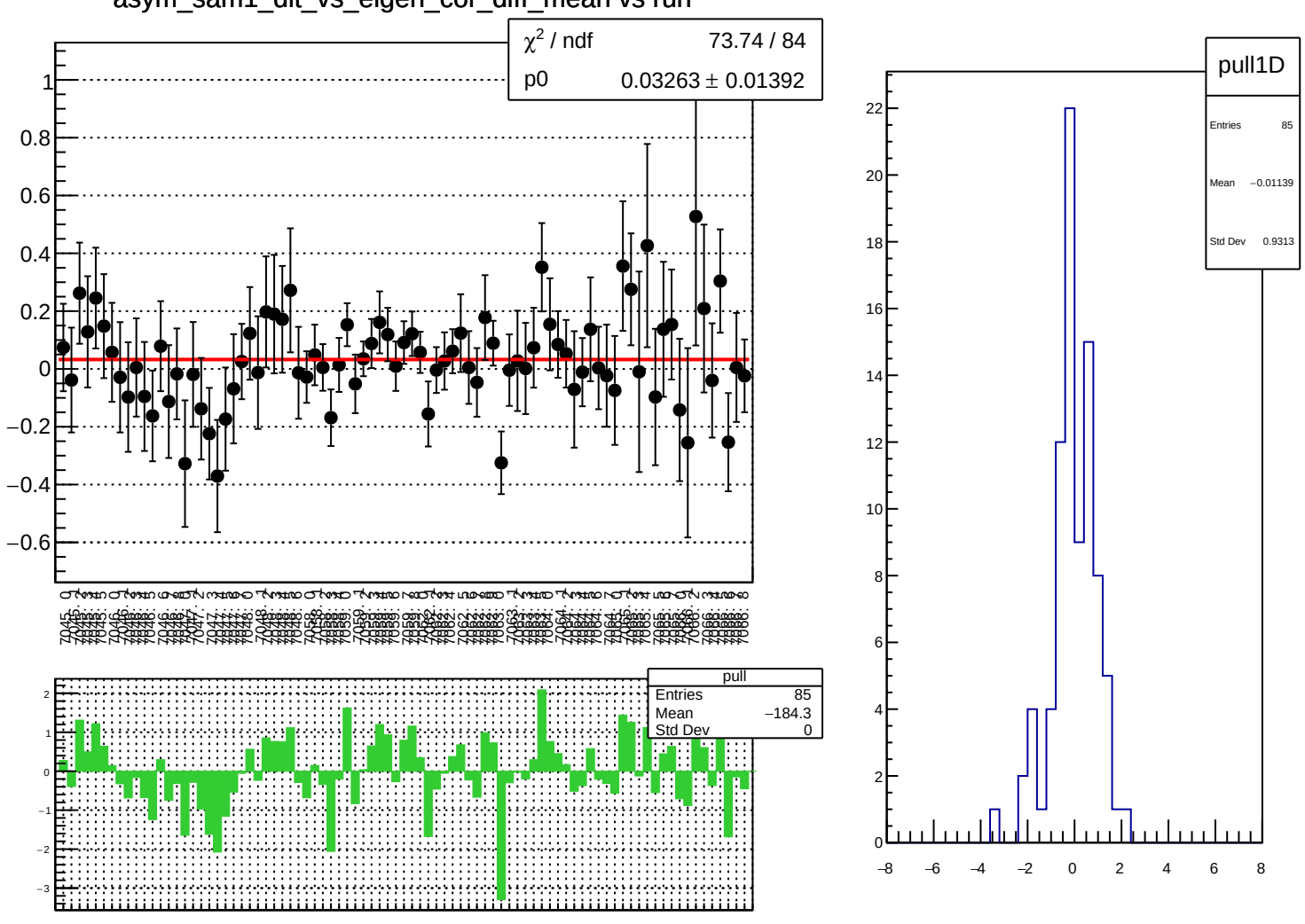

asym_sam1_rms vs run
χ^2 / ndf 1.112e+04 / 84
p0 328.4 ± 0.2567
380
360
340
320
300
280

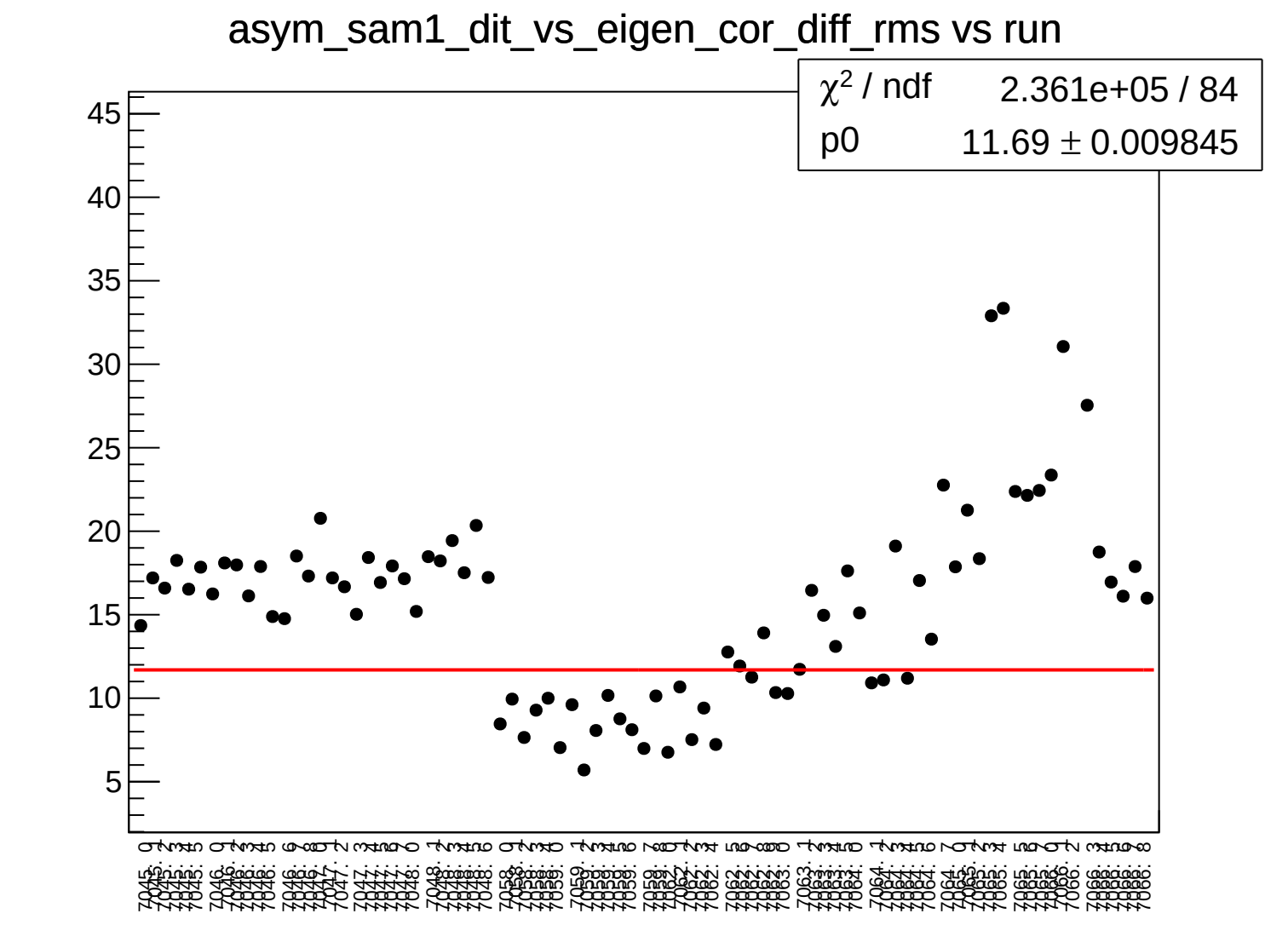

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 89.78 / 84
p0 5.597e−15 ± 1.075e−14
pull
Entries 85
Mean 81.78
Std Dev 0
pull1D
Entries 85
Mean −0.05353
Std Dev 1.026

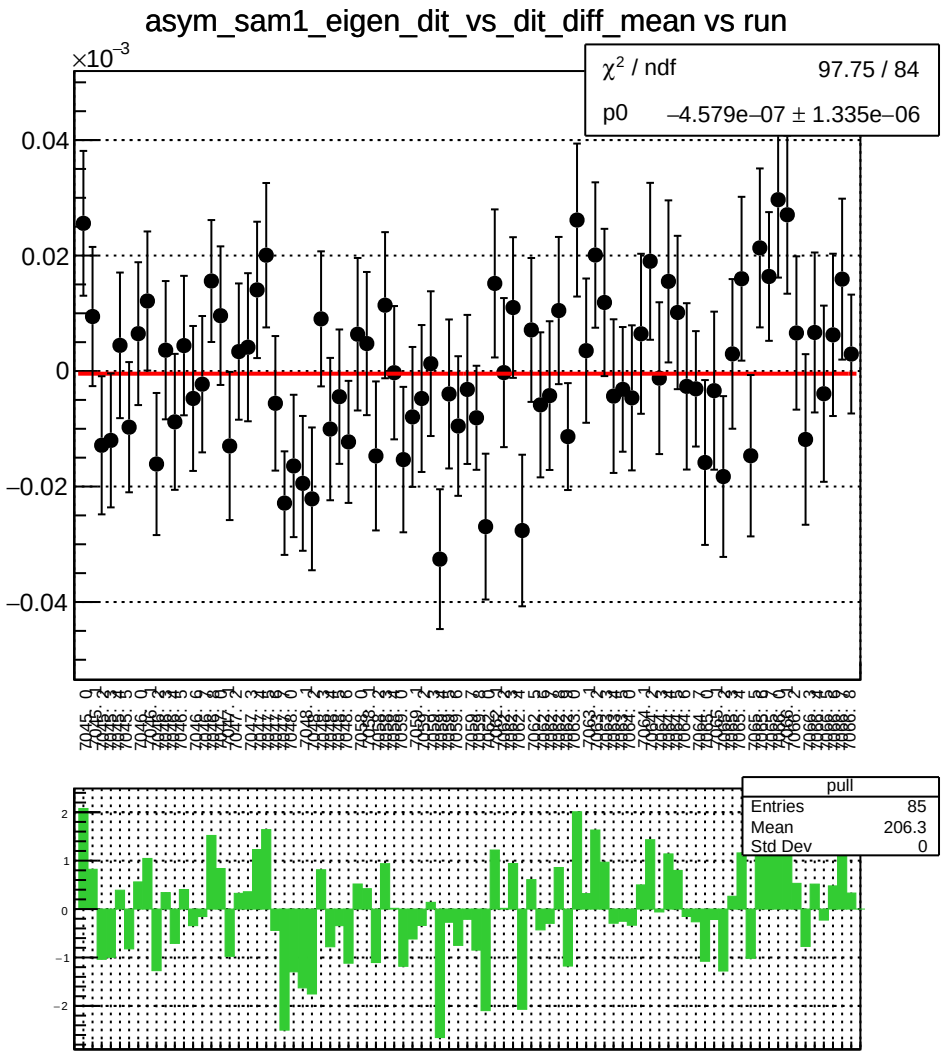

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.87e+05 / 84
p0 6.626e−12 ± 7.6e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

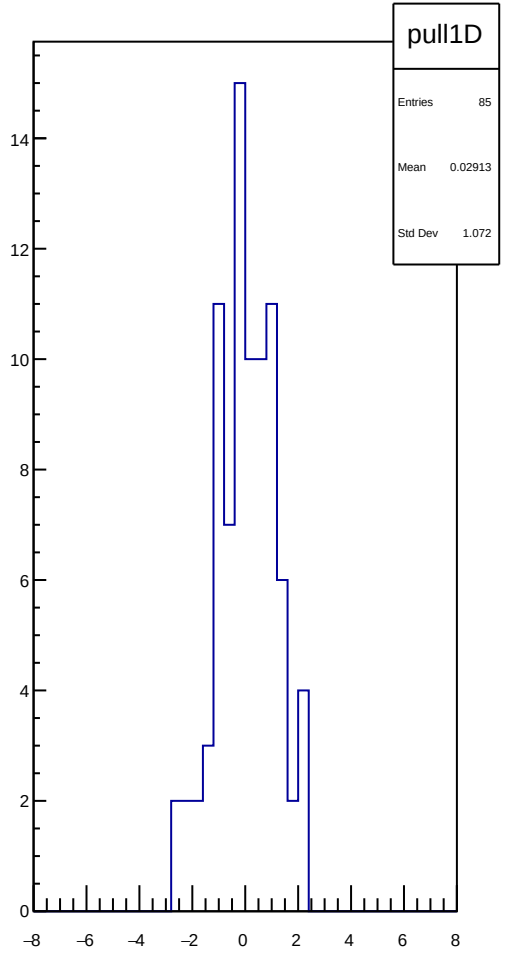

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 73.74 / 84
p0 0.03263 ± 0.01392
pull
Entries 85
Mean −184.3
Std Dev 0
pull1D
Entries 85
Mean −0.01139
Std Dev 0.9313

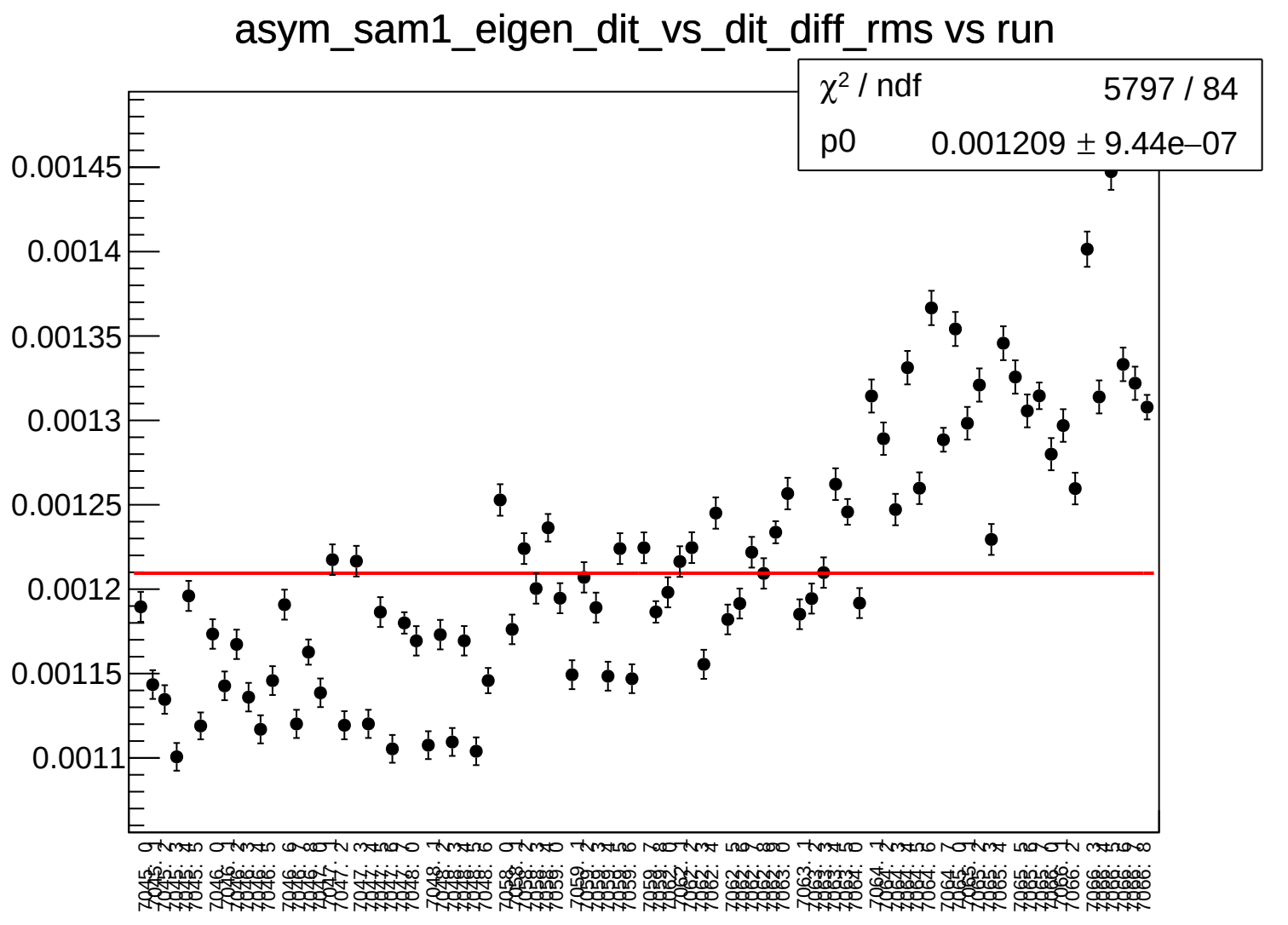

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.361e+05 / 84
p0 11.69 ± 0.009845
45
40
35
30
25
20
15
10
5

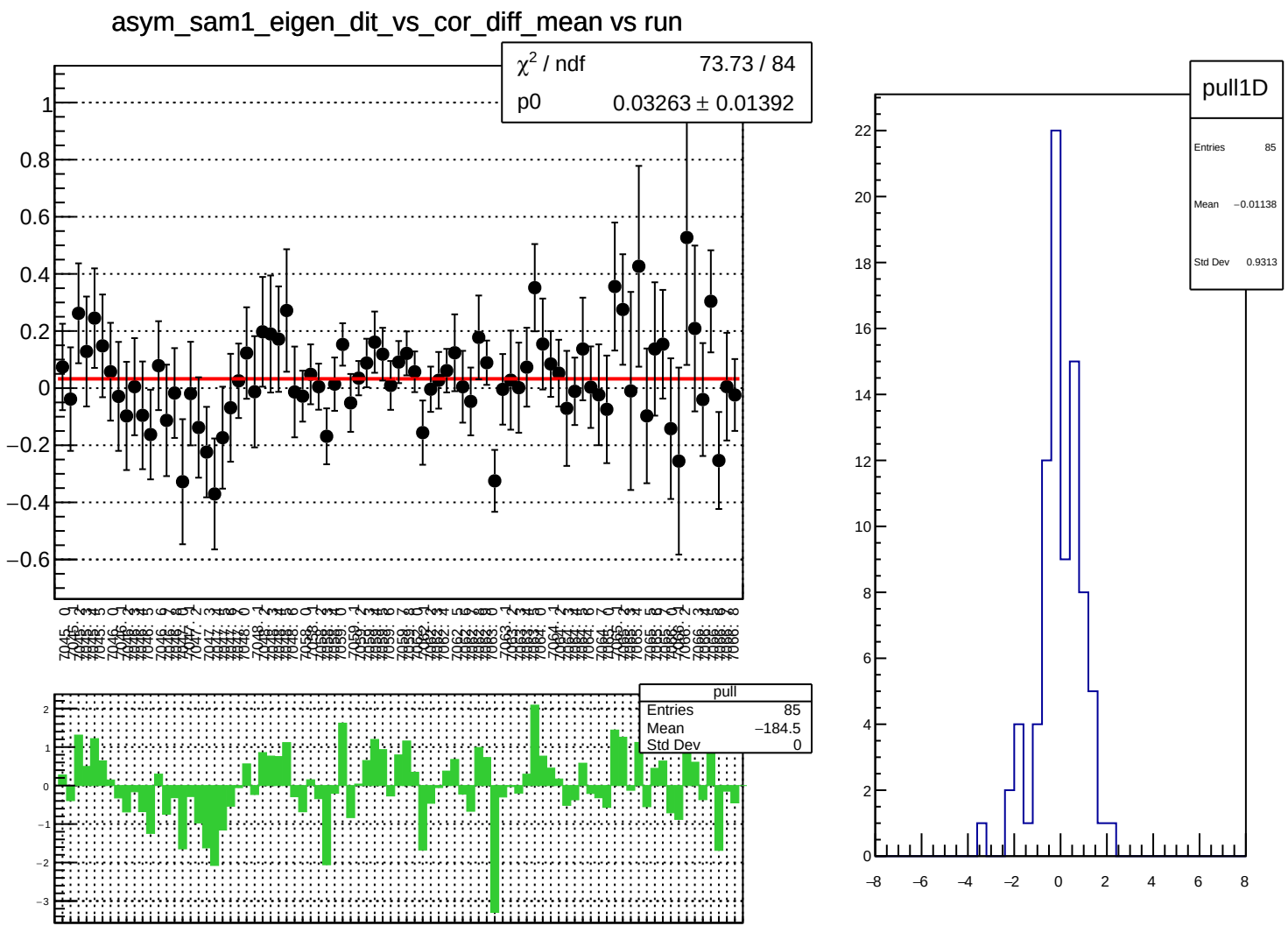

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.74 / 84
p0 0.03263 ± 0.01392
pull
Entries 85
Mean −184.3
Std Dev 0
pull1D
Entries 85
Mean −0.01139
Std Dev 0.9313

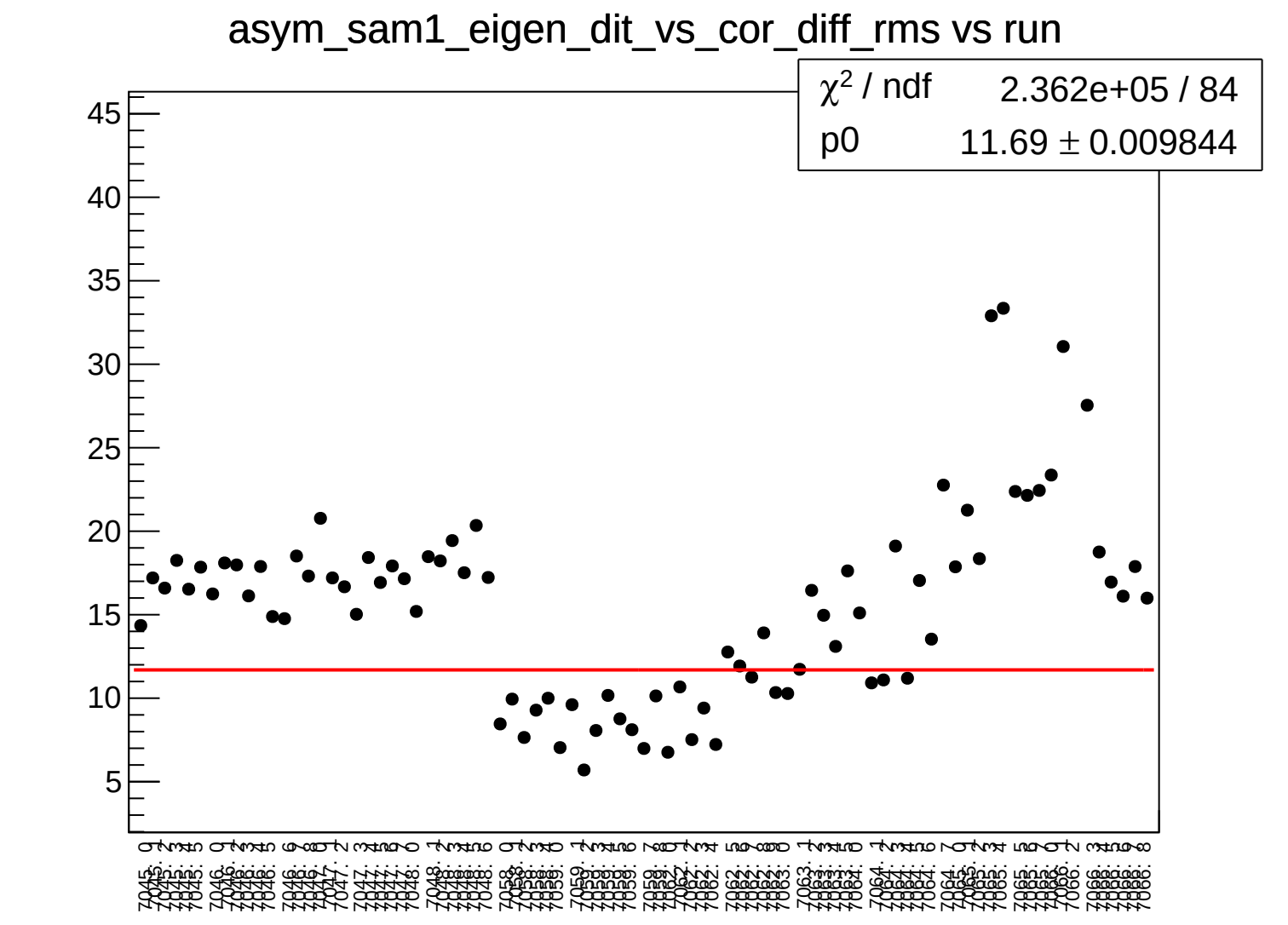

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.361e+05 / 84
p0 11.69 ± 0.009845
45
40
35
30
25
20
15
10
5

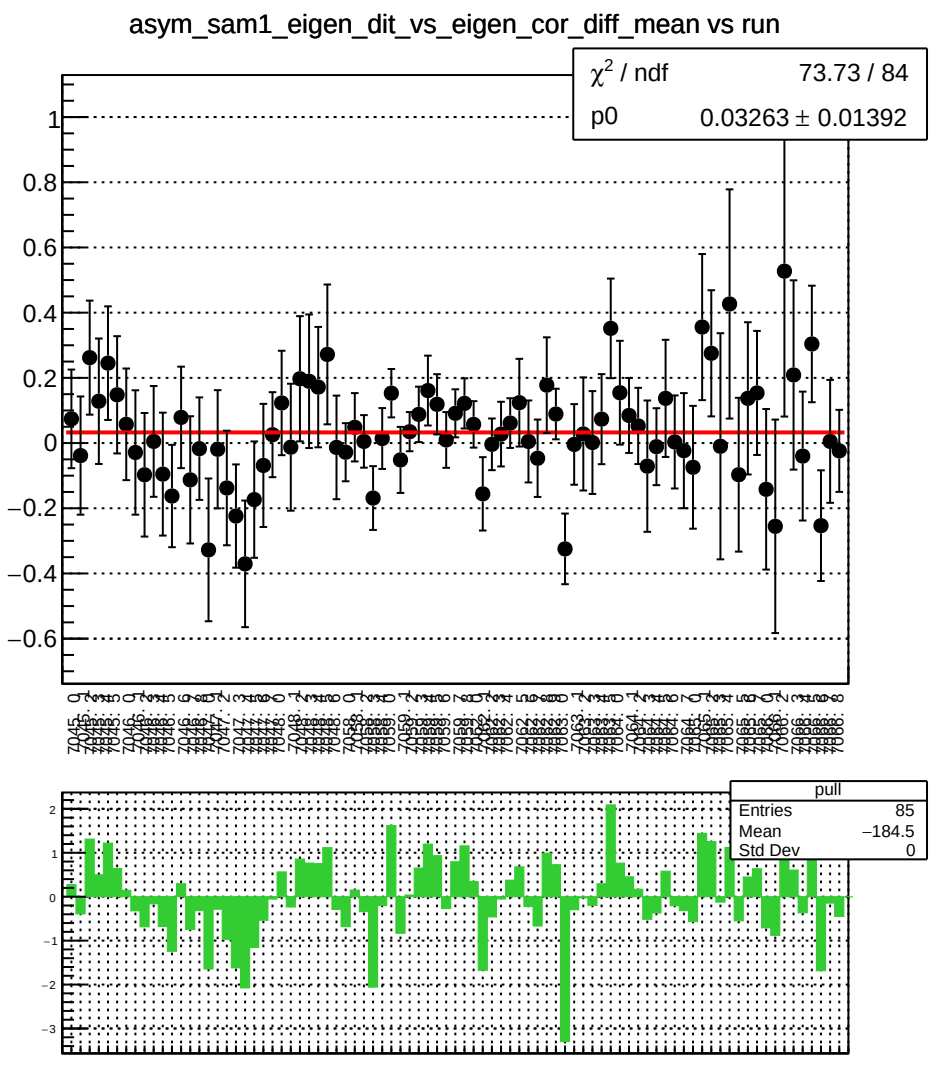

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.75 / 84
p0 −4.579e−07 ± 1.335e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 85
Mean 206.3
Std Dev 0
2
1
0
−1
−2

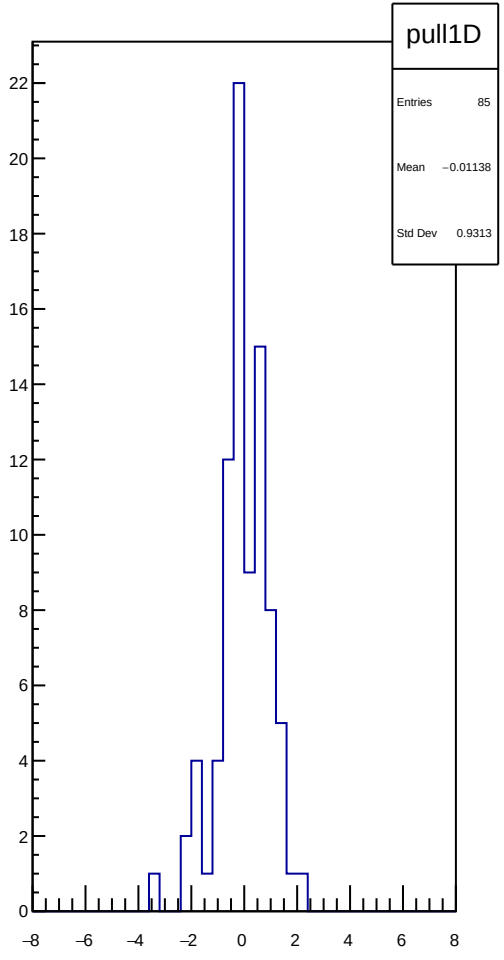

pull1D
Entries 85
Mean 0.02913
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

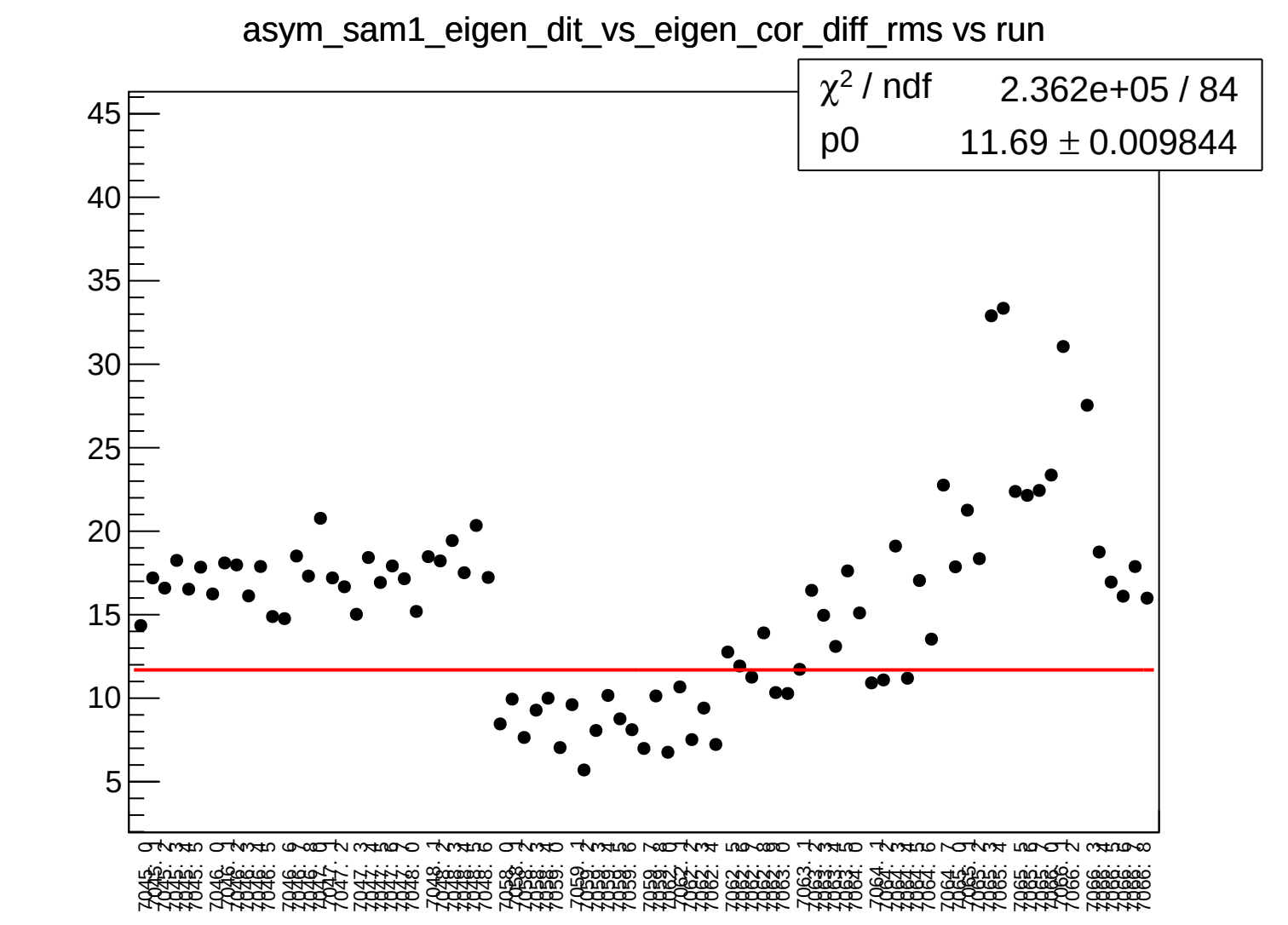

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5797 / 84
p0 0.001209 ± 9.44e–07
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

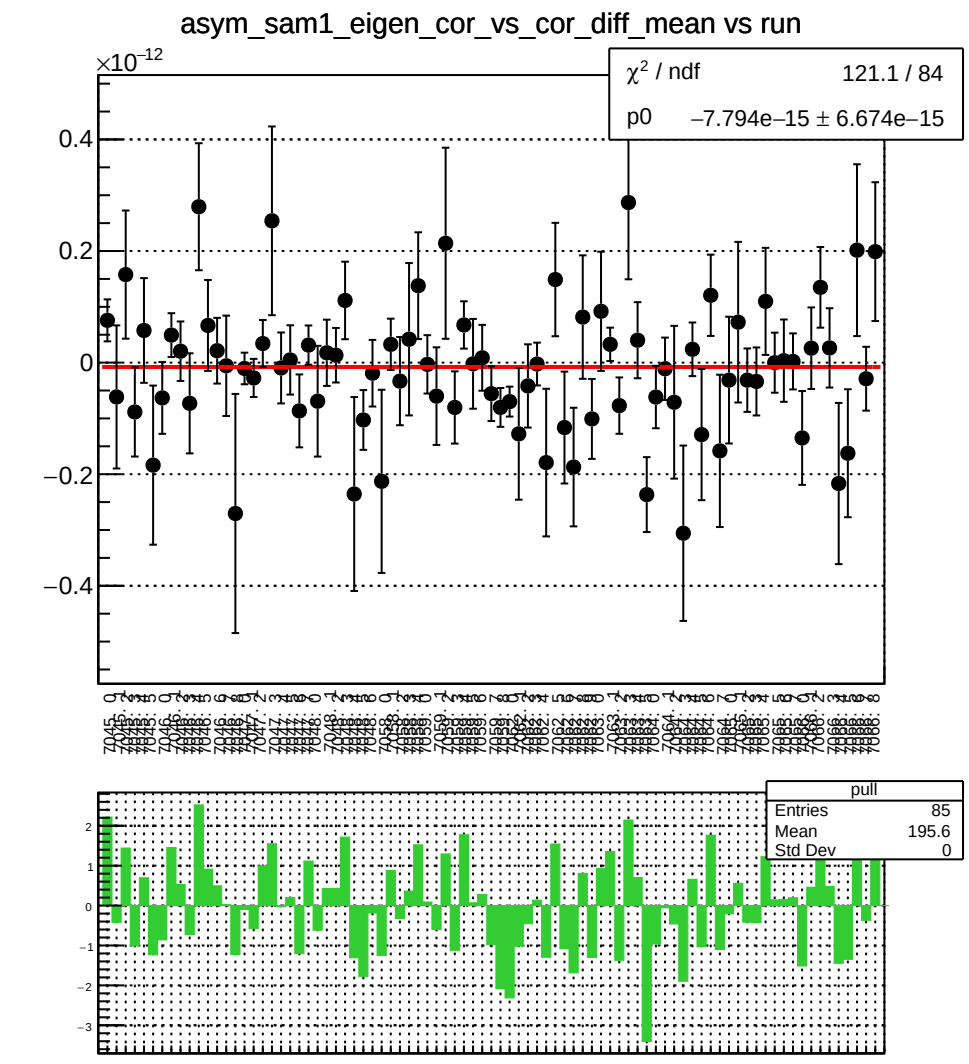

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.73 / 84
p0 0.03263 ± 0.01392
pull
Entries 85
Mean −184.5
Std Dev 0
pull1D
Entries 85
Mean −0.01138
Std Dev 0.9313

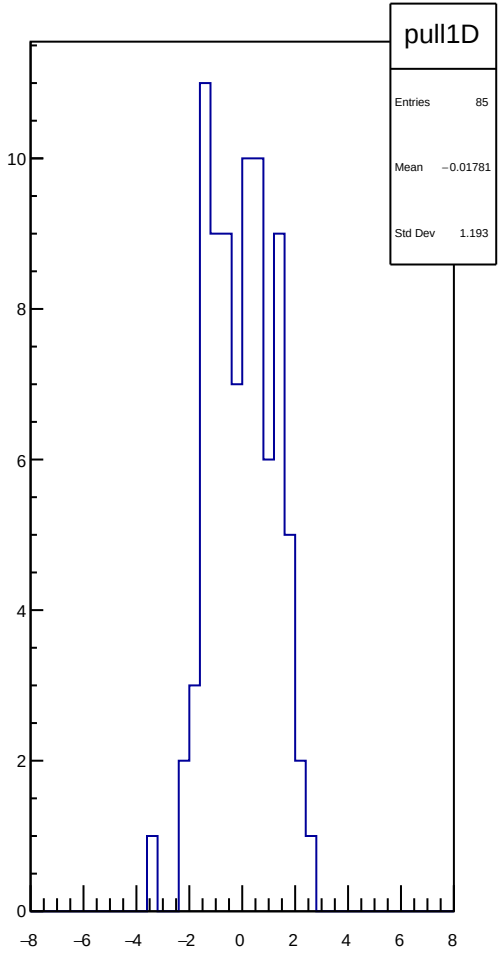

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.362e+05 / 84
p0 11.69 ± 0.009844
45
40
35
30
25
20
15
10
5

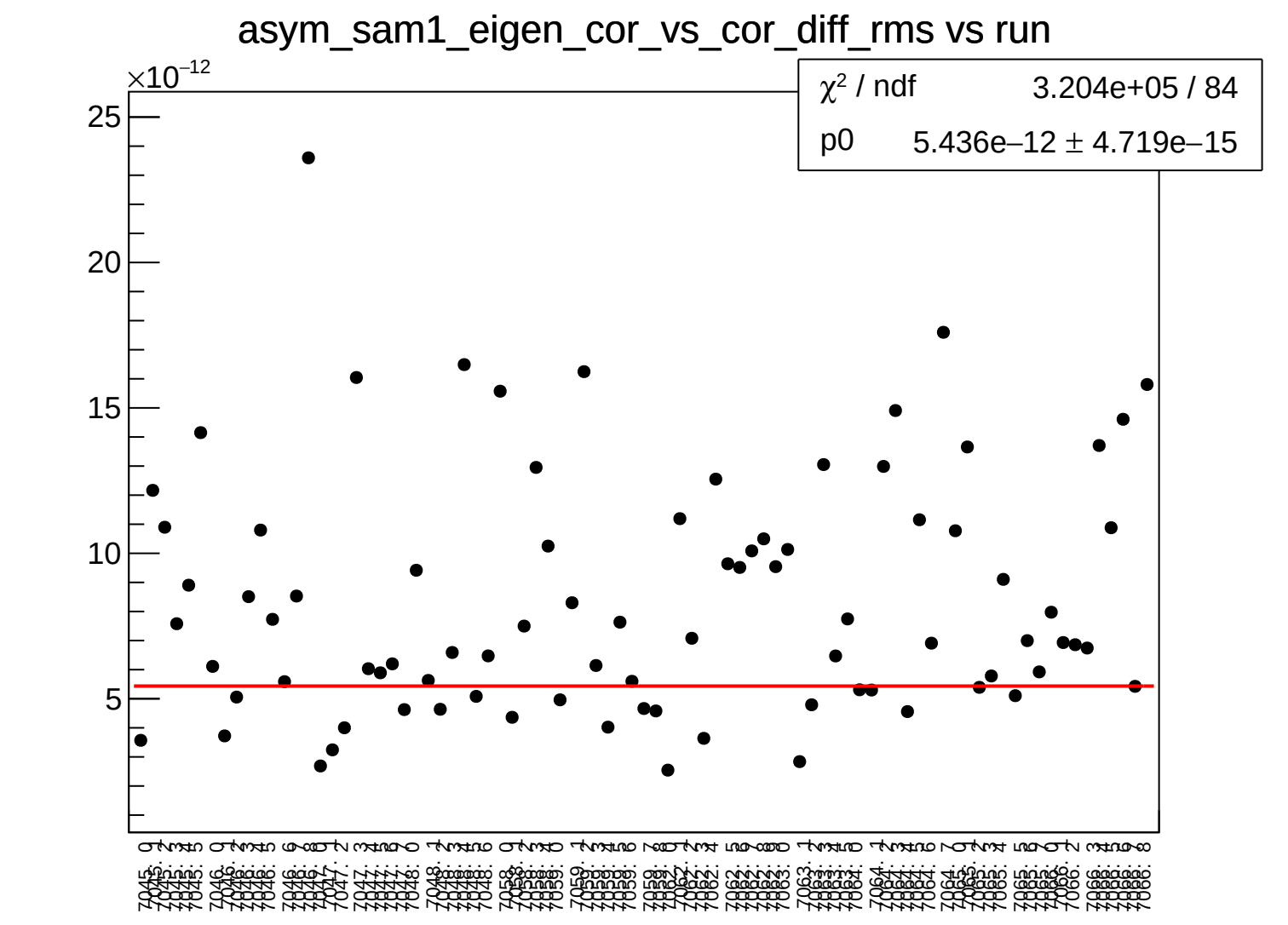

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.73 / 84
p0 0.03263 ± 0.01392
pull
Entries 85
Mean −184.5
Std Dev 0

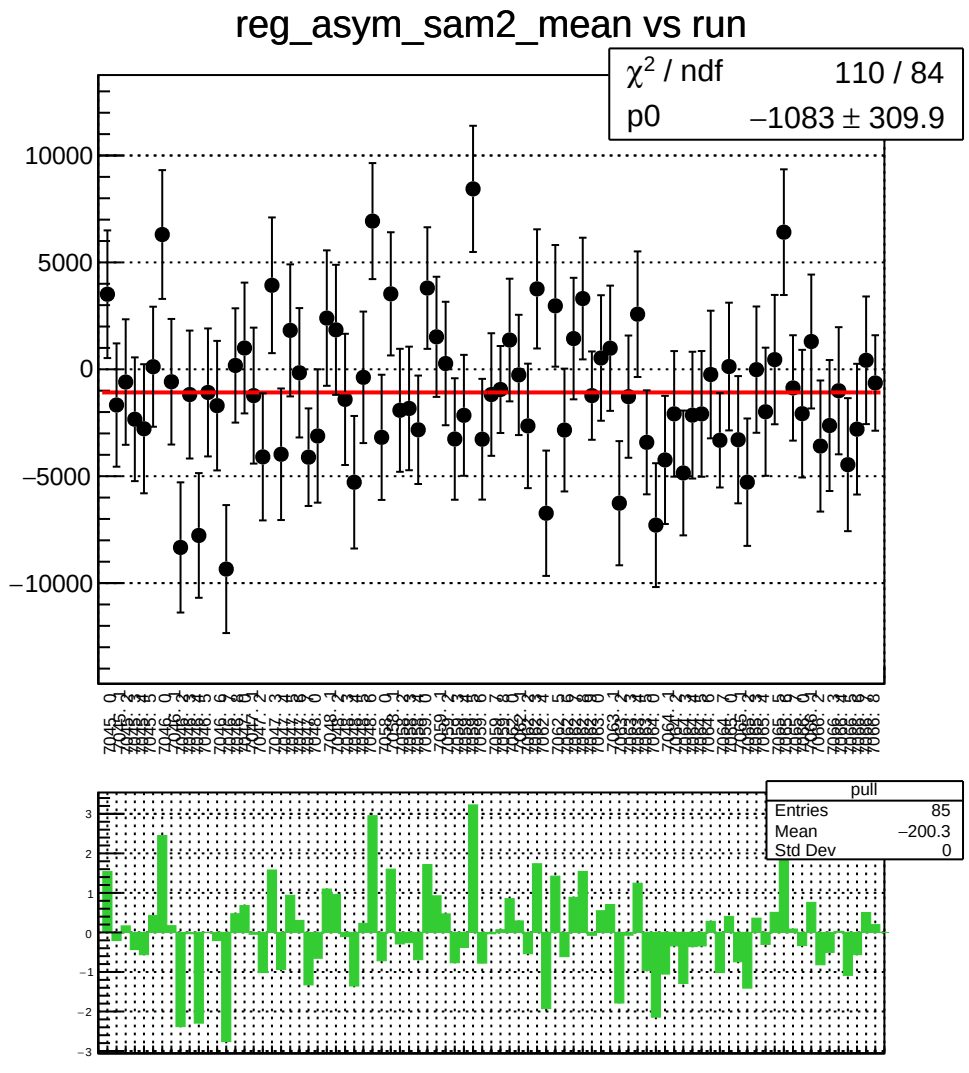

pull1D
Entries 85
Mean −0.01138
Std Dev 0.9313

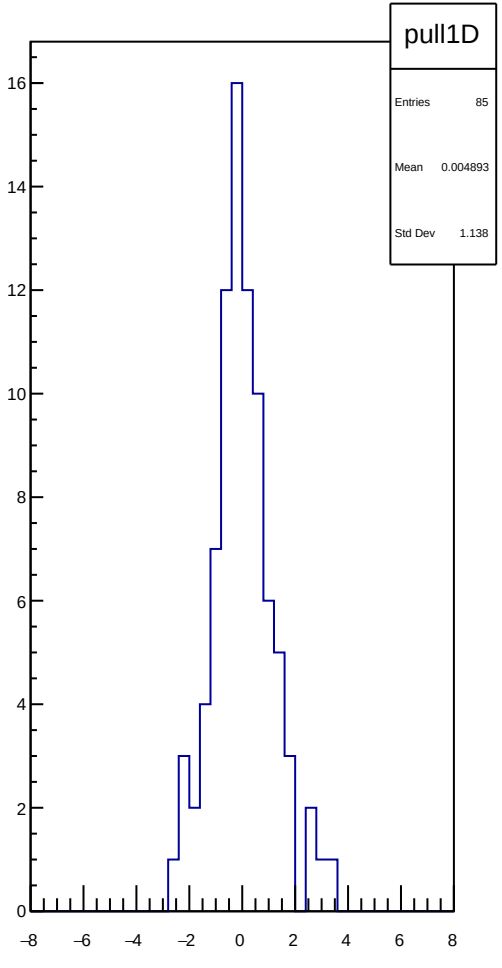

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.362e+05 / 84
p0 11.69 ± 0.009844
45
40
35
30
25
20
15
10
5

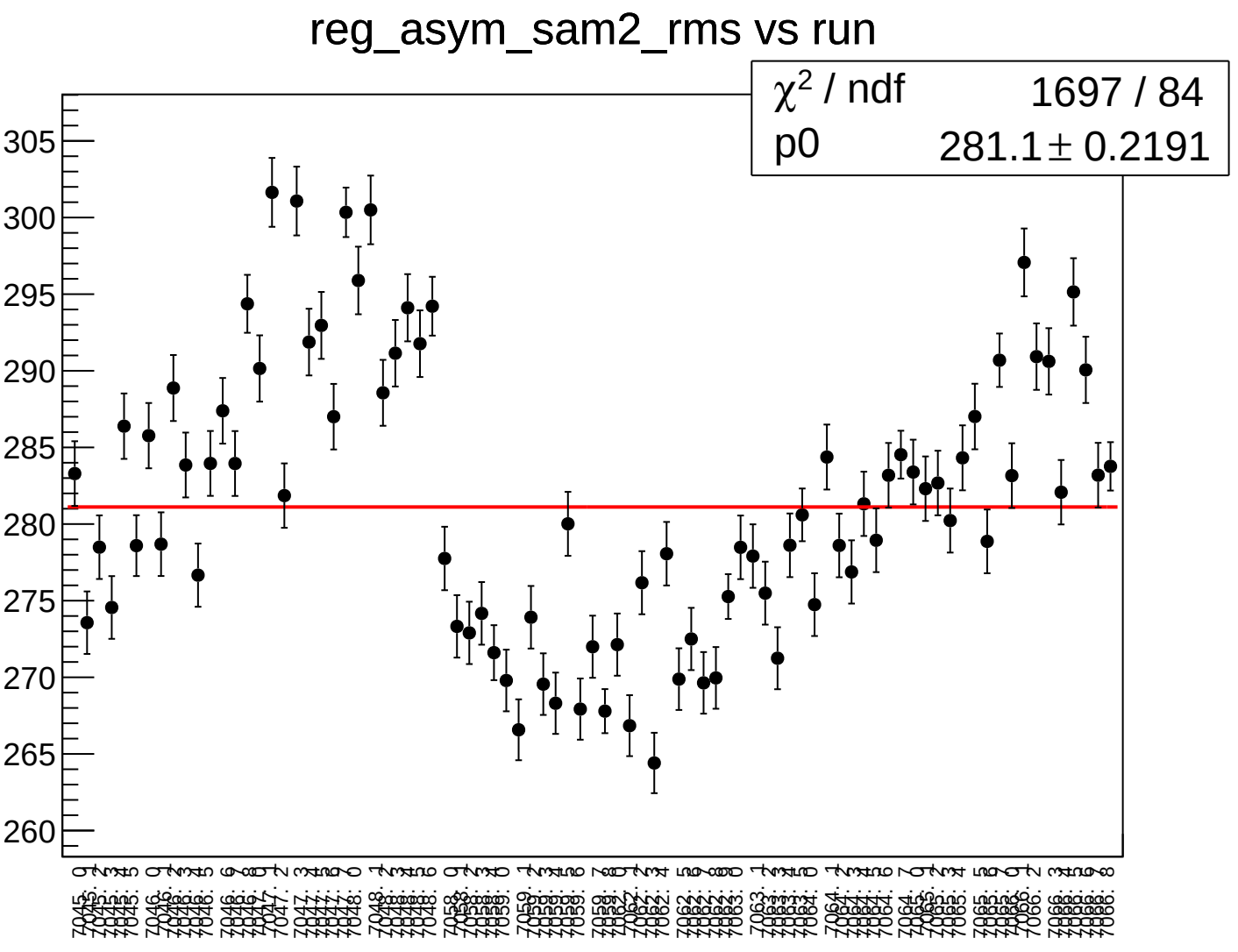

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.1 / 84
p0 −7.794e−15 ± 6.674e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean 195.6
Std Dev 0
2
1
0
−1
−2
−3

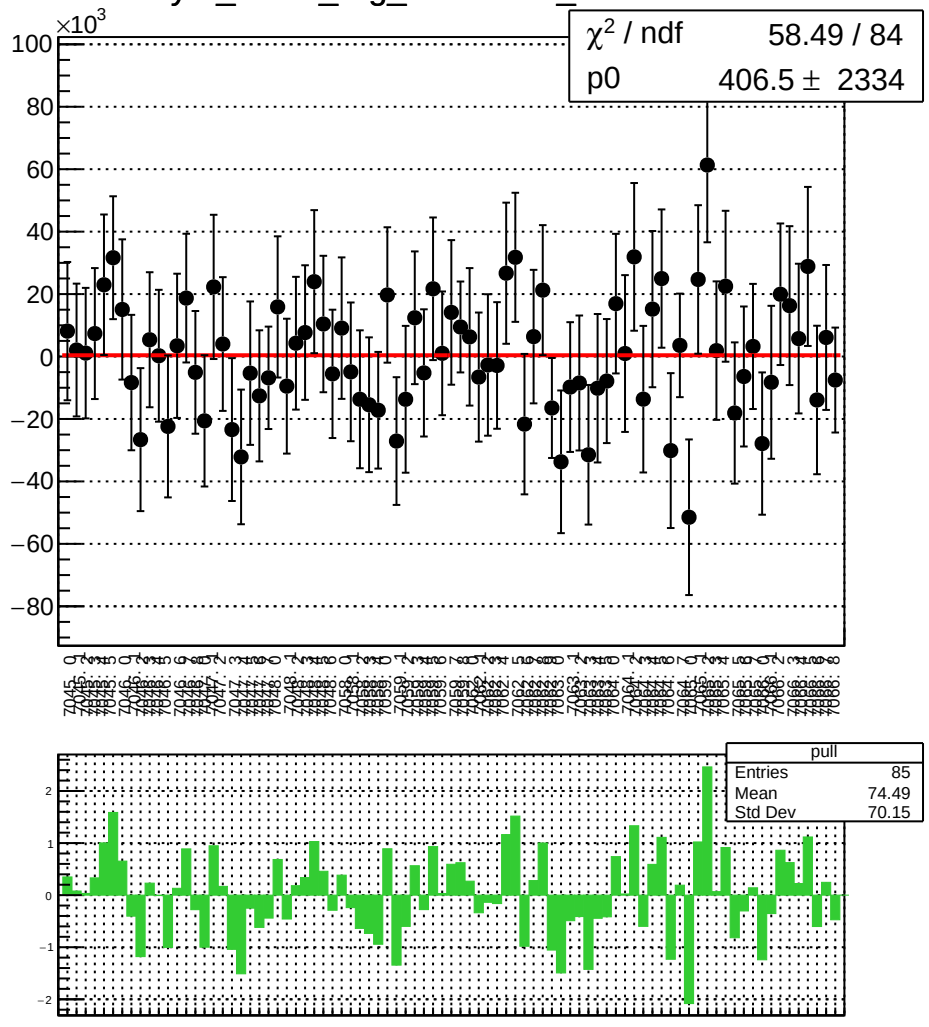

pull1D
Entries 85
Mean −0.01781
Std Dev 1.193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

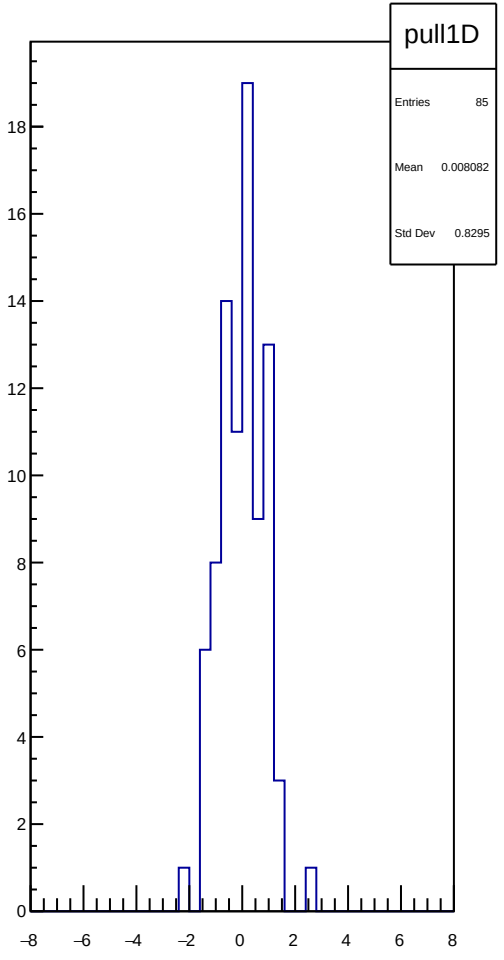

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.204e+05 / 84
p0 5.436e−12 ± 4.719e−15
25
20
15
10
5

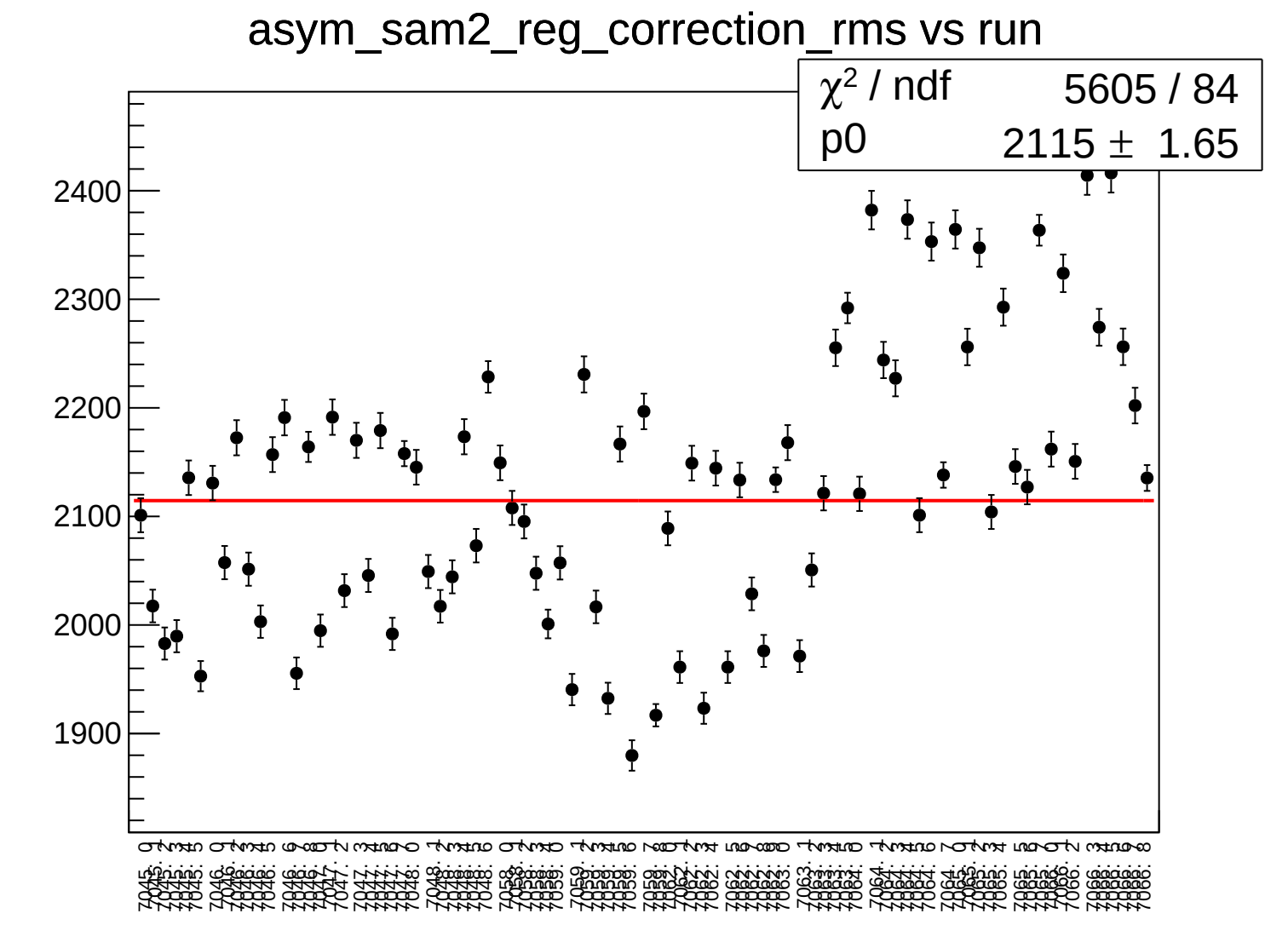

reg_asym_sam2_mean vs run
χ² / ndf 110 / 84
p0 −1083 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −200.3
Std Dev 0
3
2
1
0
−1
−2
−3

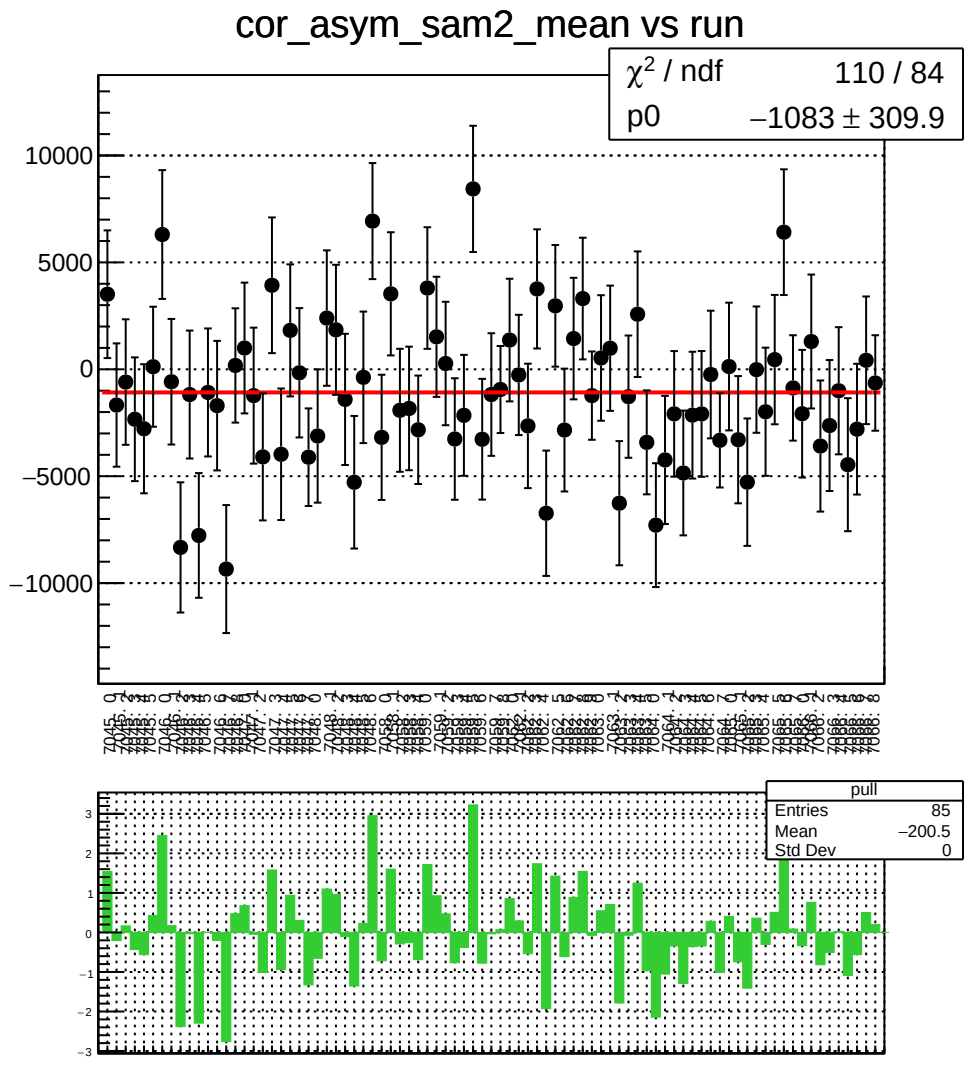

pull1D
Entries 85
Mean 0.004893
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

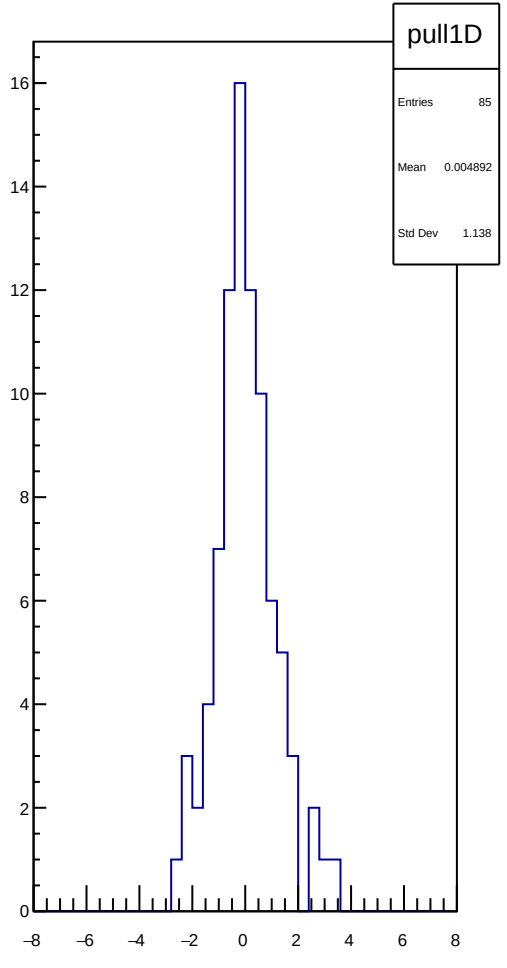

reg_asym_sam2_rms vs run
χ² / ndf 1697 / 84
p0 281.1 ± 0.2191
305
300
295
290
285
280
275
270
265
260

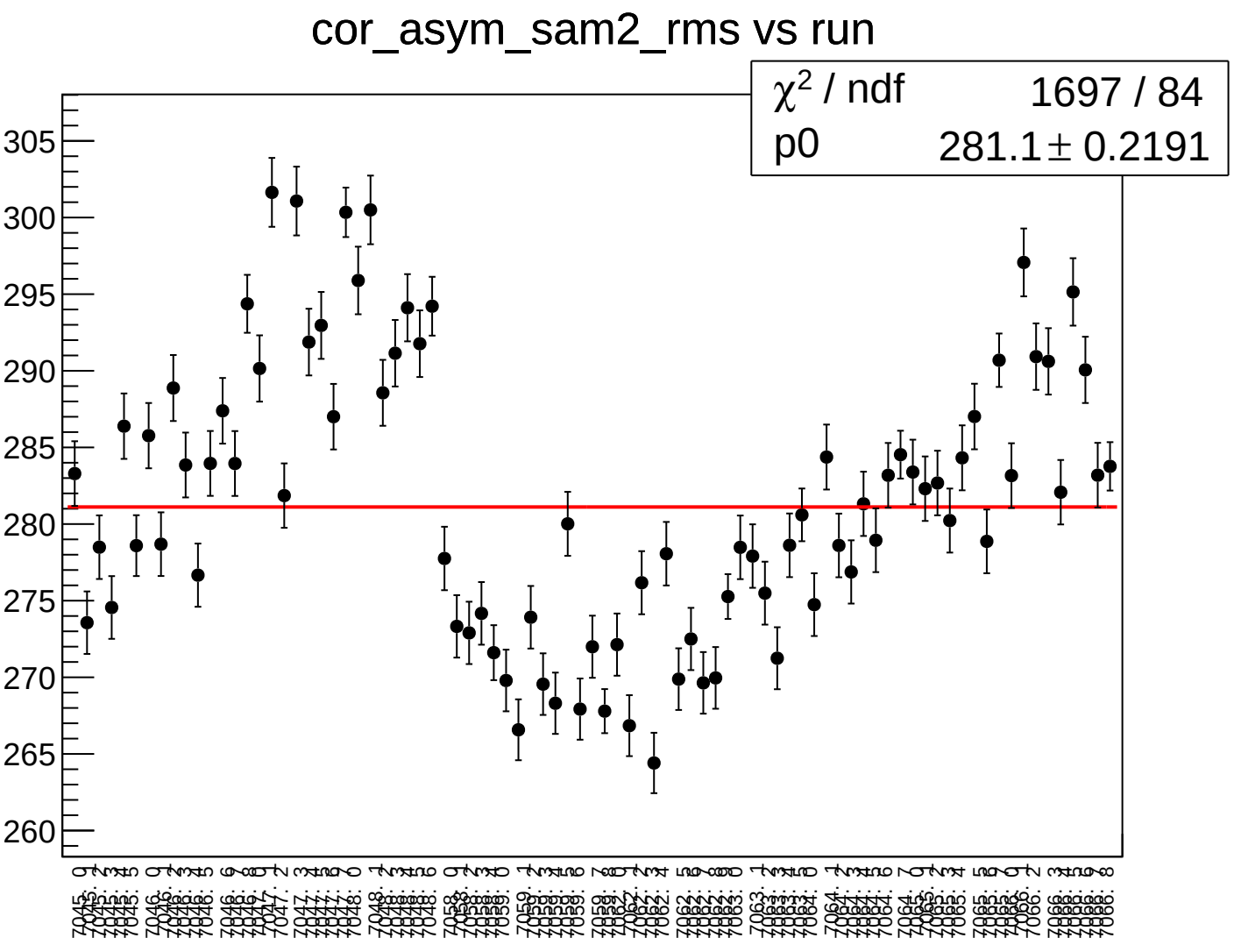

asym_sam2_reg_correction_mean vs run
χ² / ndf 58.49 / 84
p0 406.5 ± 2334
×10³
pull
Entries 85
Mean 74.49
Std Dev 70.15

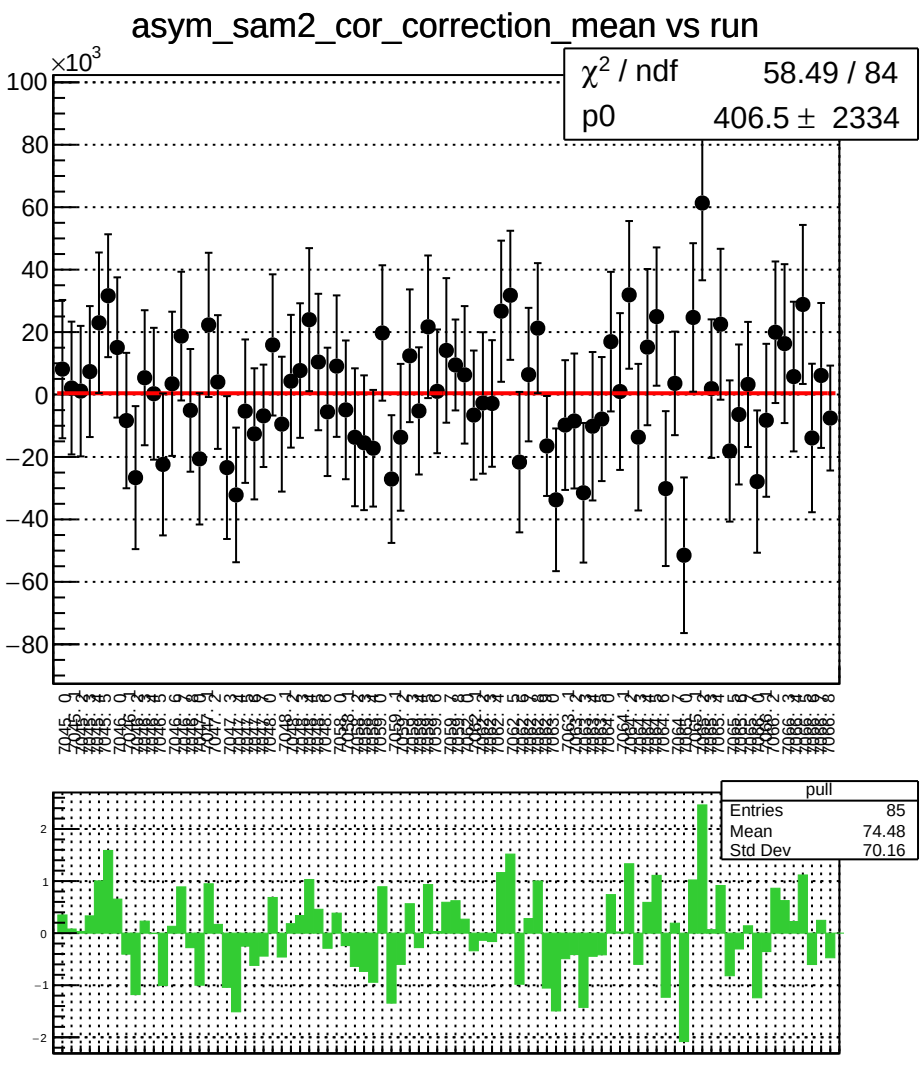

pull1D
Entries 85
Mean 0.008082
Std Dev 0.8295

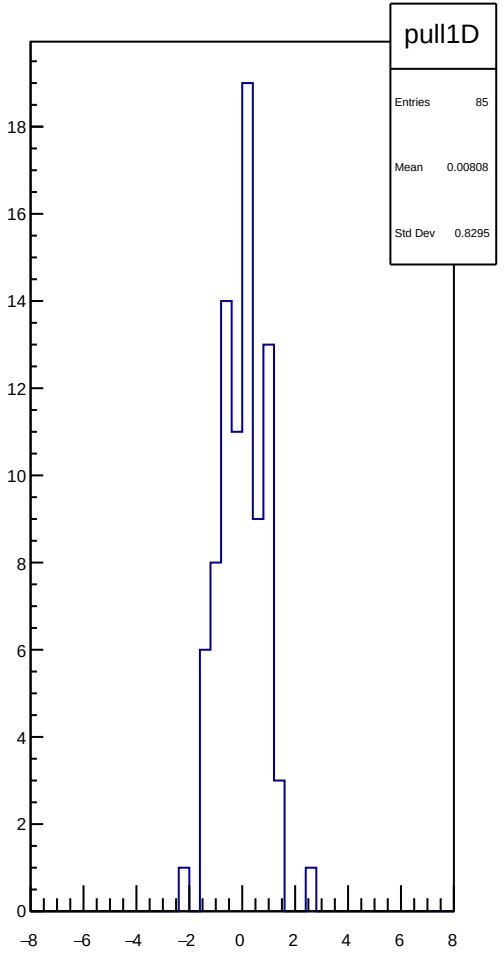

asym_sam2_reg_correction_rms vs run
χ² / ndf 5605 / 84
p0 2115 ± 1.65
2400
2300
2200
2100
2000
1900

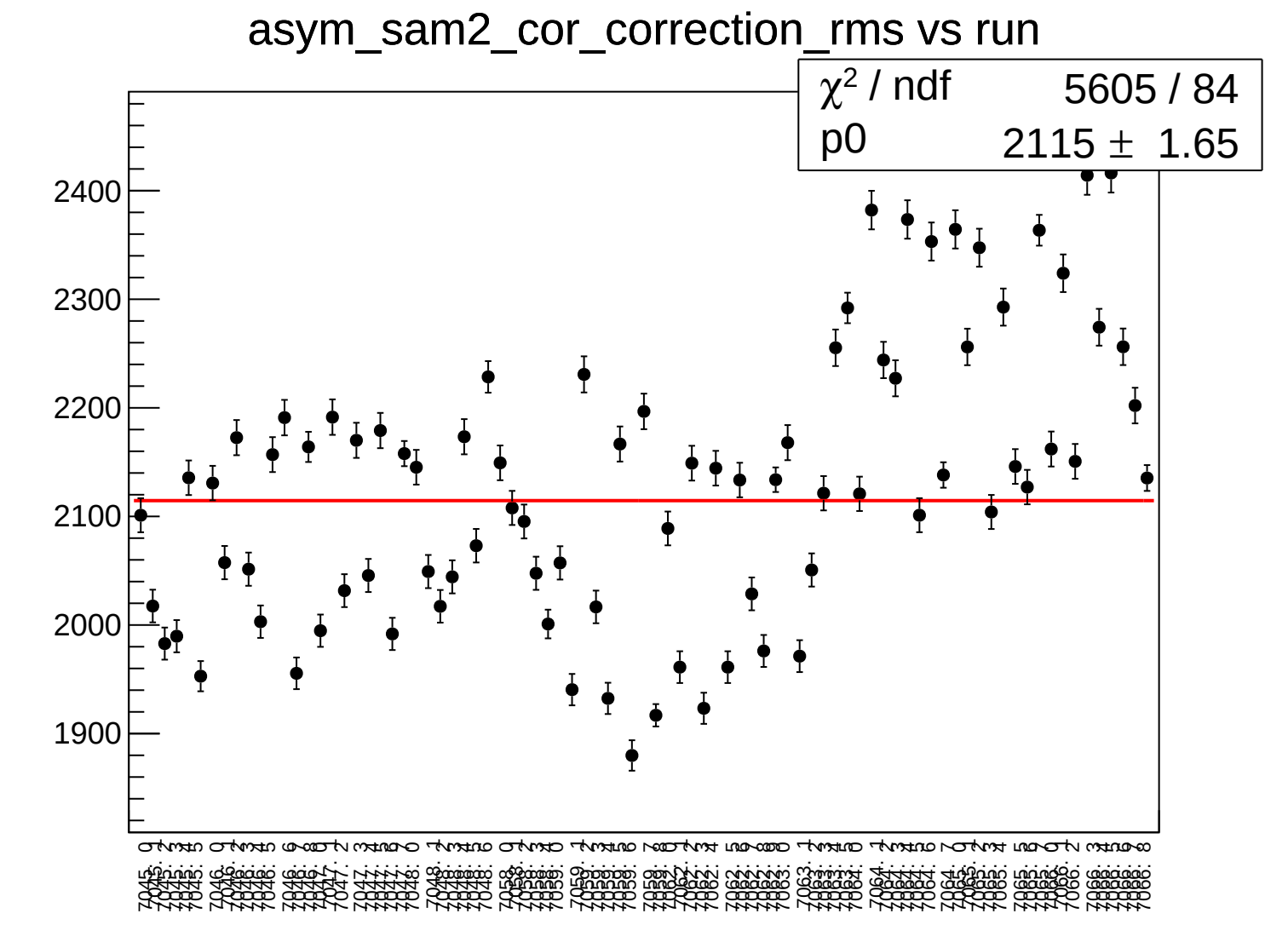

cor_asym_sam2_mean vs run
χ² / ndf 110 / 84
p0 −1083 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −200.5
Std Dev 0
3
2
1
0
−1
−2
−3

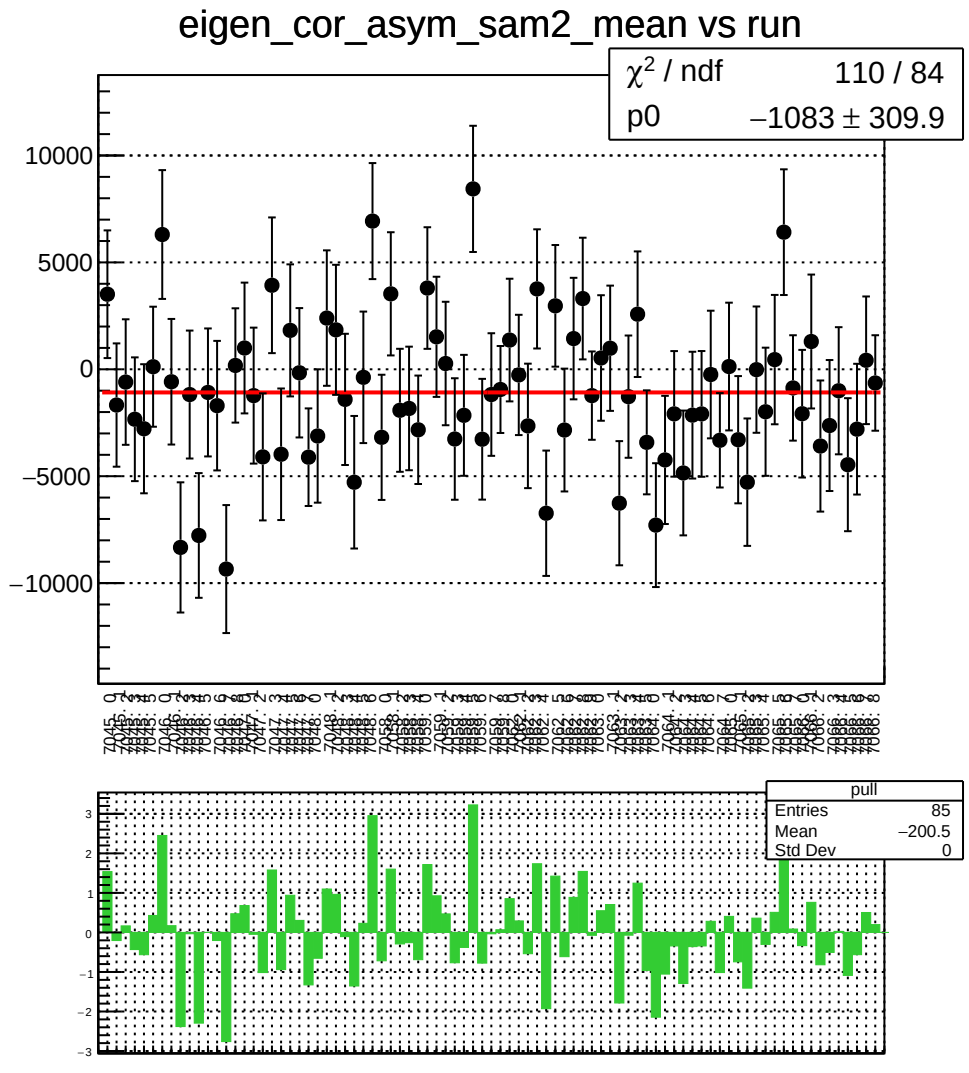

pull1D
Entries 85
Mean 0.004892
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

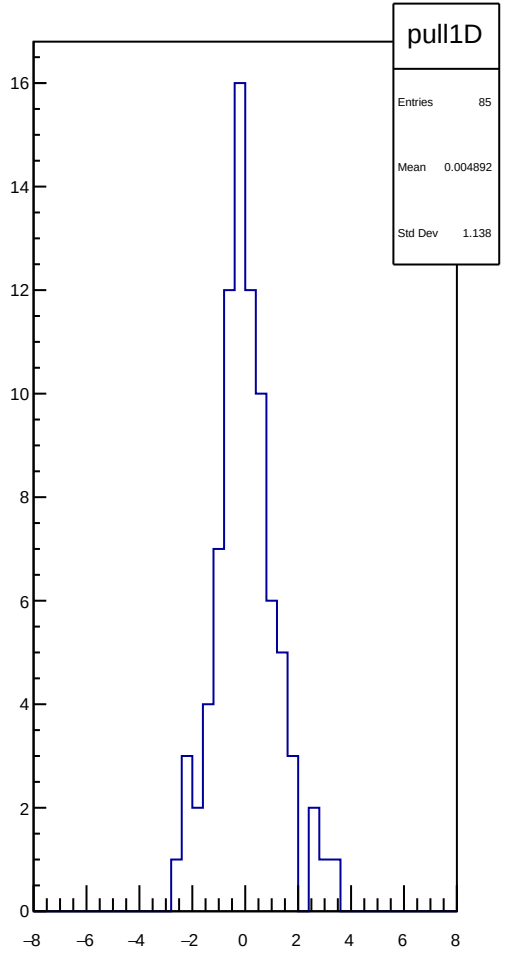

cor_asym_sam2_rms vs run
χ² / ndf 1697 / 84
p0 281.1 ± 0.2191
305
300
295
290
285
280
275
270
265
260


asym_sam2_cor_correction_mean vs run
χ² / ndf 58.49 / 84
p0 406.5 ± 2334
×10³
pull
Entries 85
Mean 74.48
Std Dev 70.16


pull1D
Entries 85
Mean 0.00808
Std Dev 0.8295


asym_sam2_cor_correction_rms vs run
χ² / ndf 5605 / 84
p0 2115 ± 1.65
2400
2300
2200
2100
2000
1900


eigen_cor_asym_sam2_mean vs run
χ² / ndf 110 / 84
p0 −1083 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −200.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 85
Mean 0.004892
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
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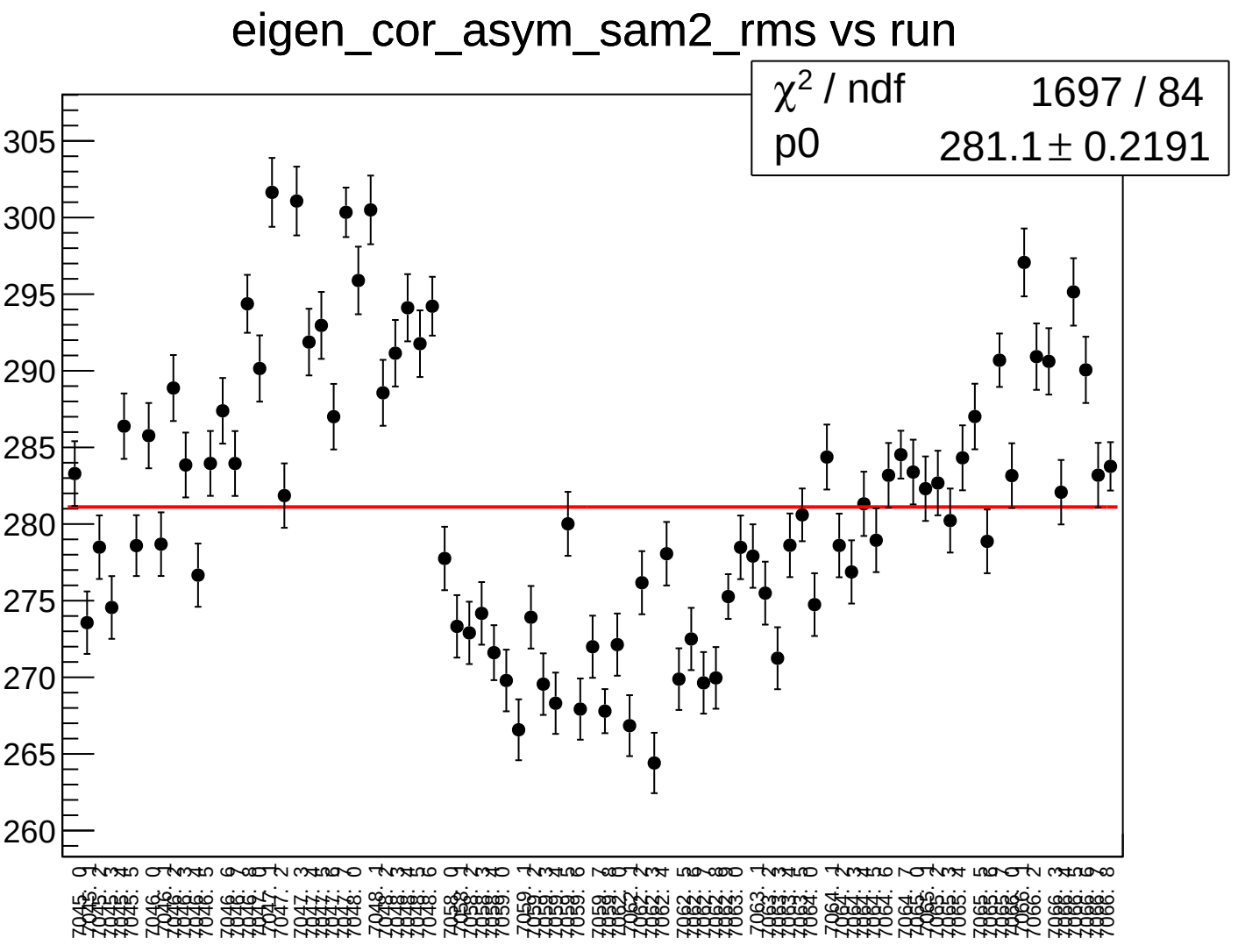
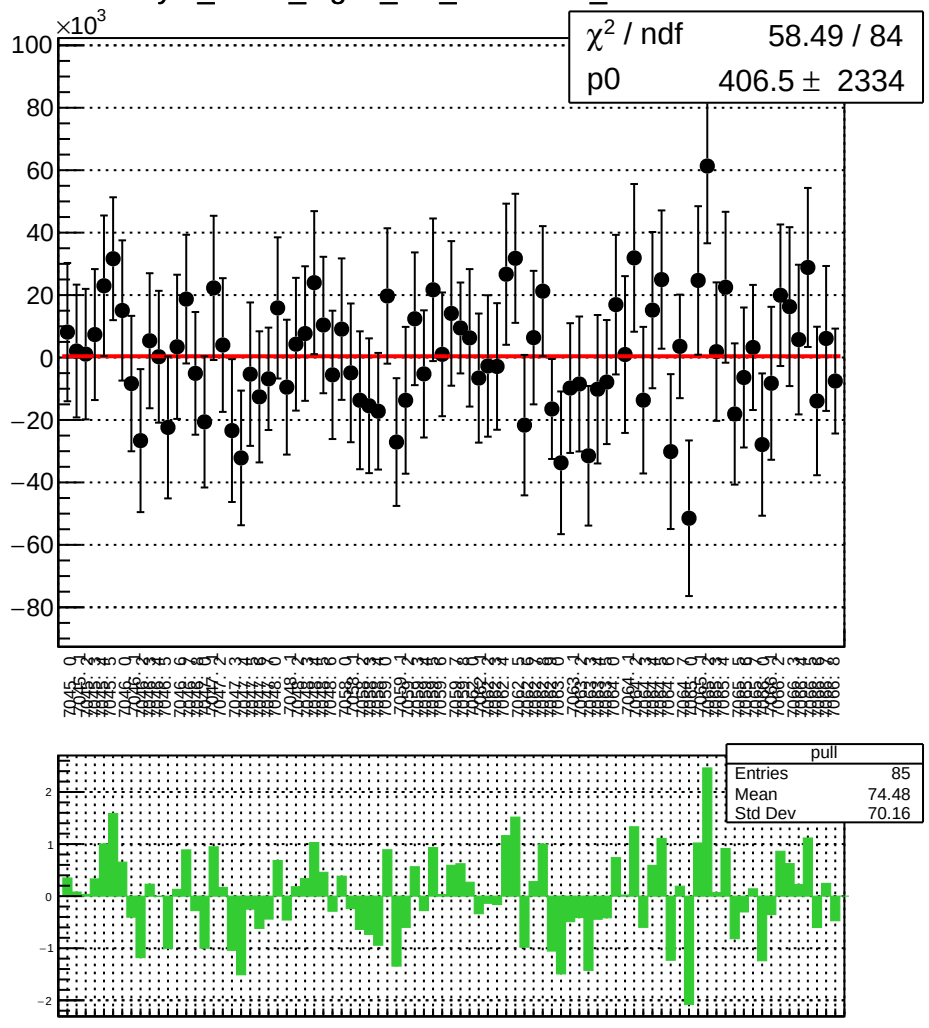
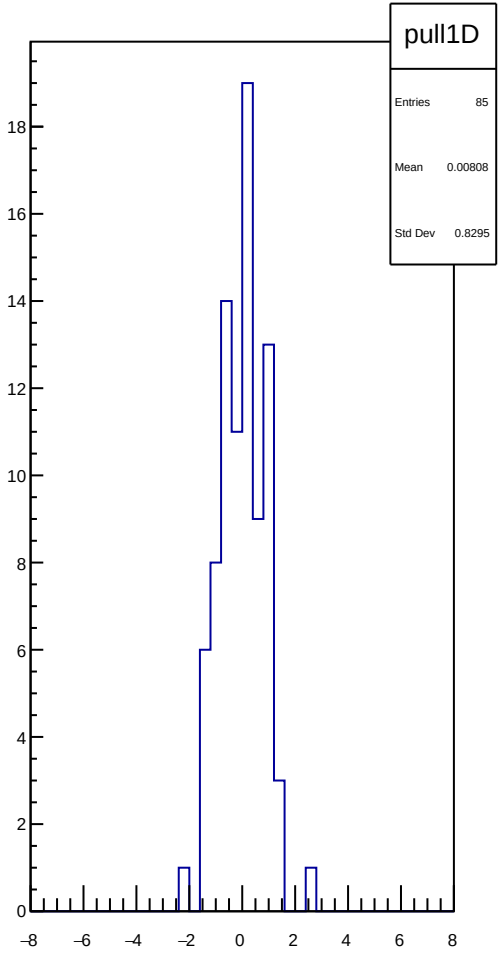
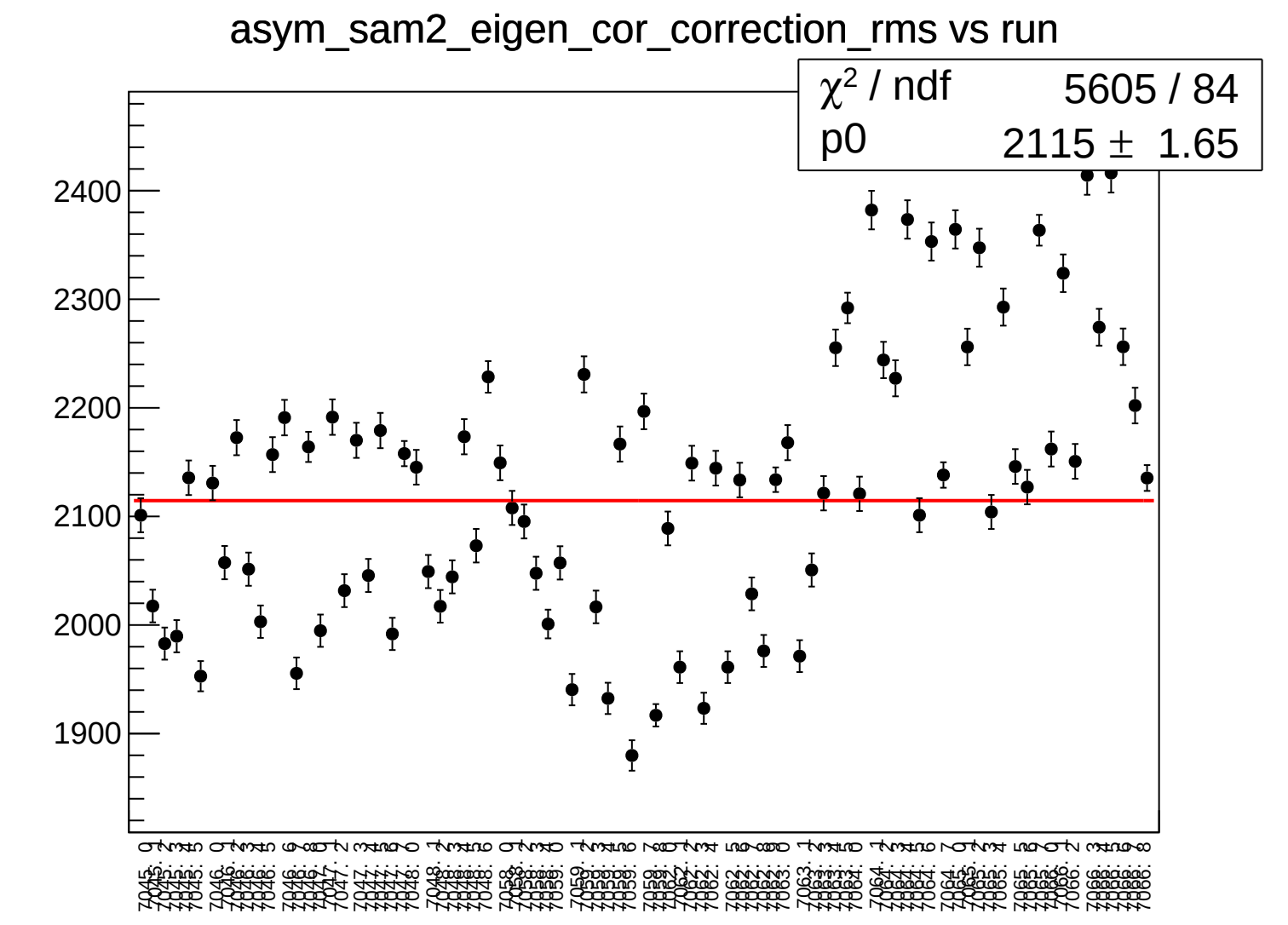
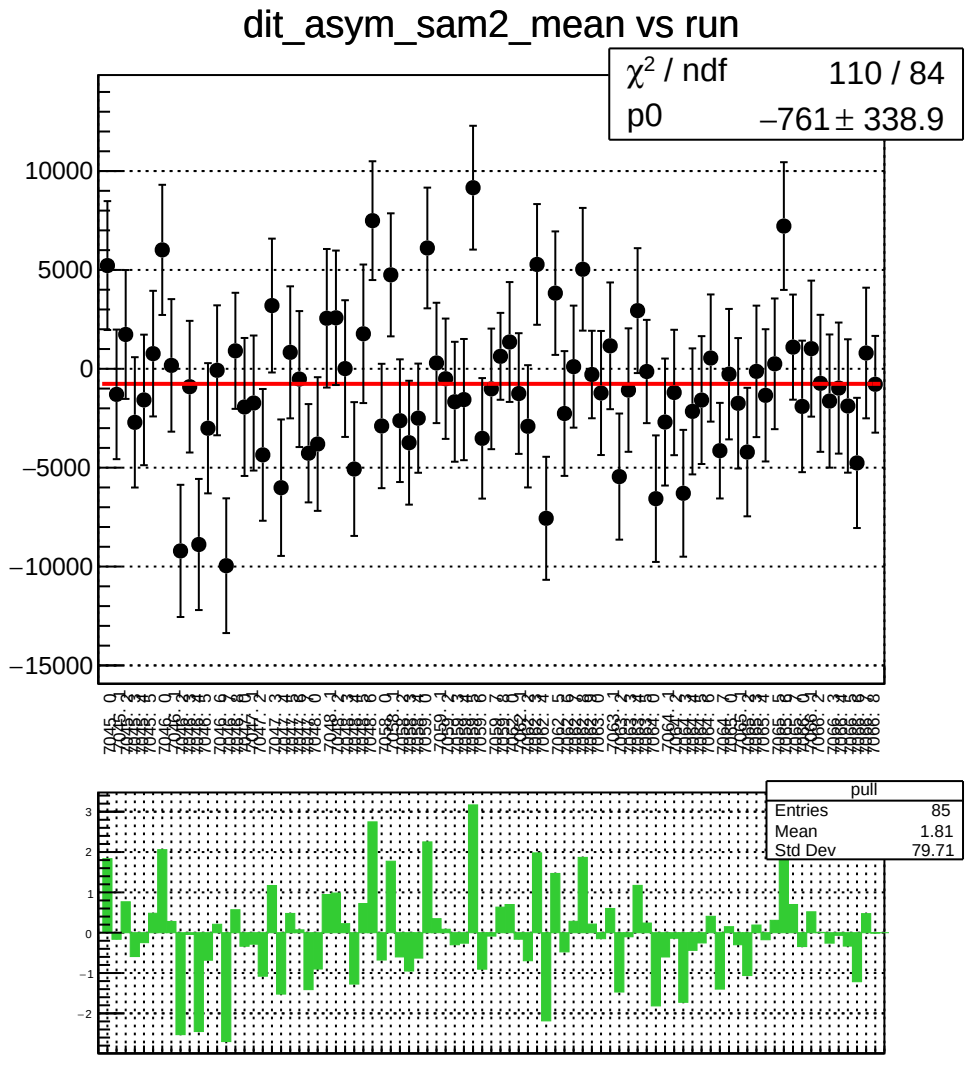
0
2
4
6
8

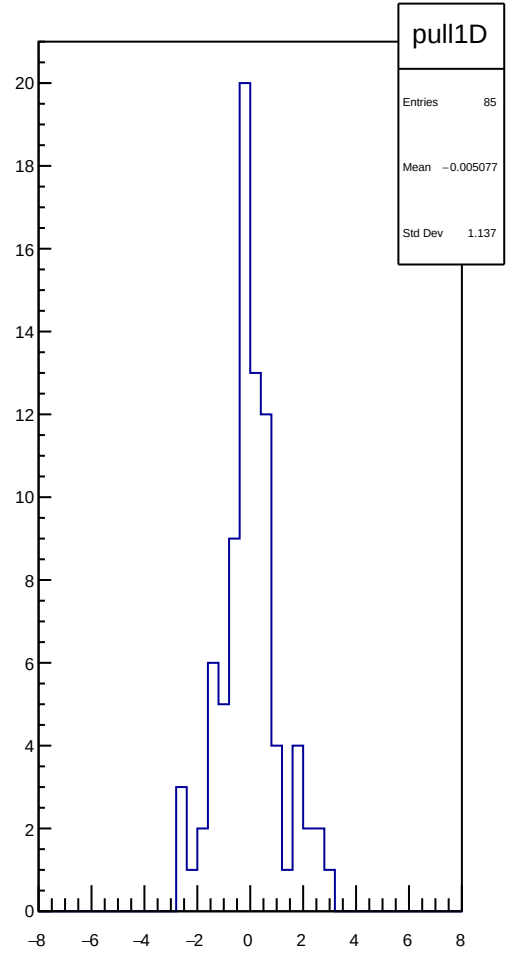

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1697 / 84
p0 281.1 ± 0.2191
305
300
295
290
285
280
275
270
265
260

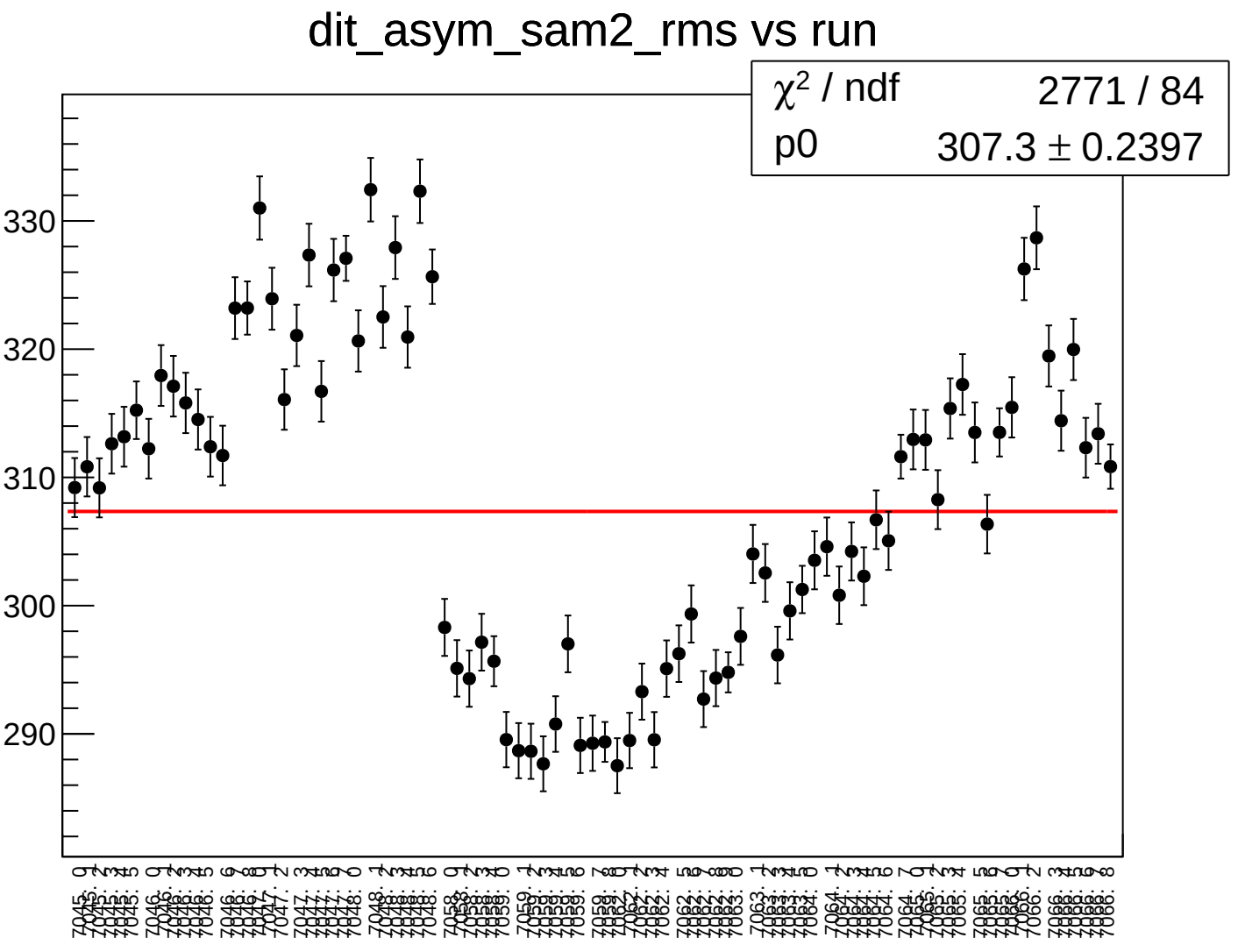

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 58.49 / 84
p0 406.5 ± 2334
×10³
pull
Entries 85
Mean 74.48
Std Dev 70.16

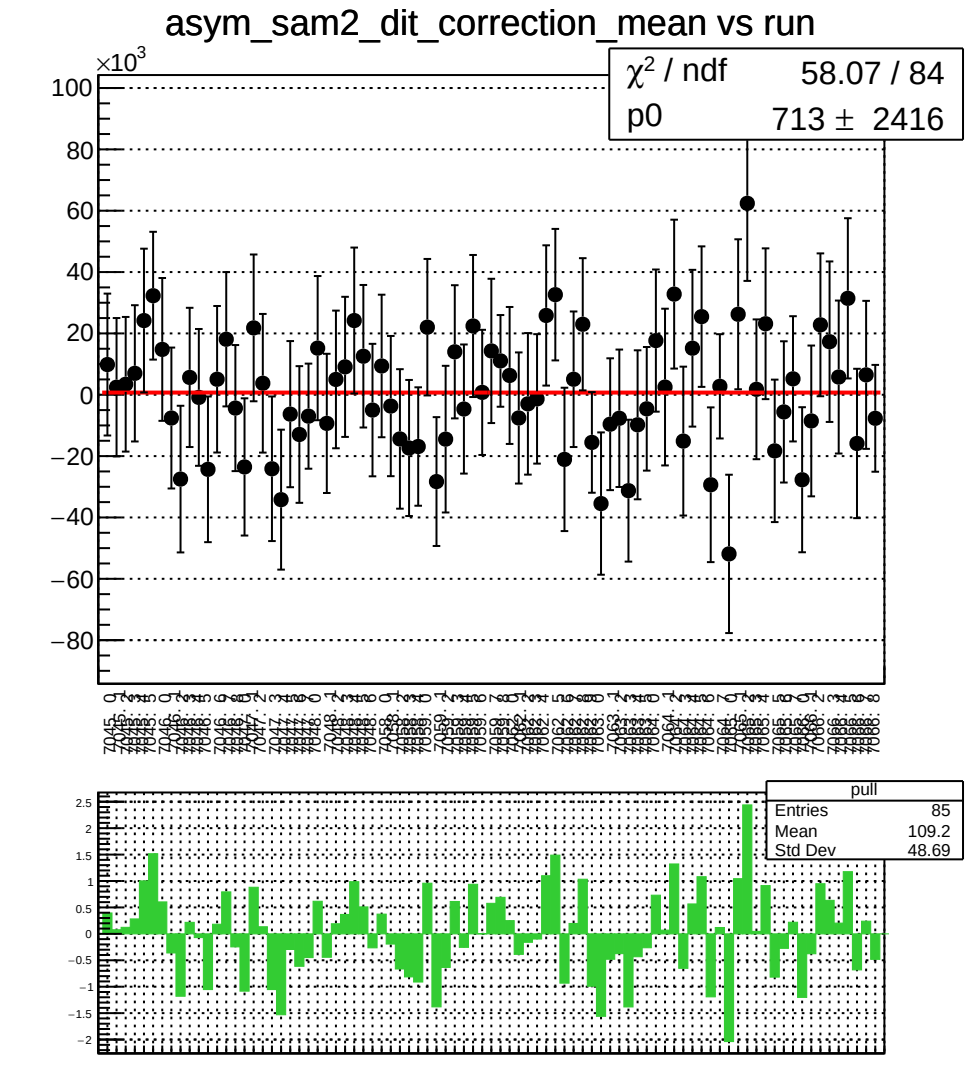

pull1D
Entries 85
Mean 0.00808
Std Dev 0.8295

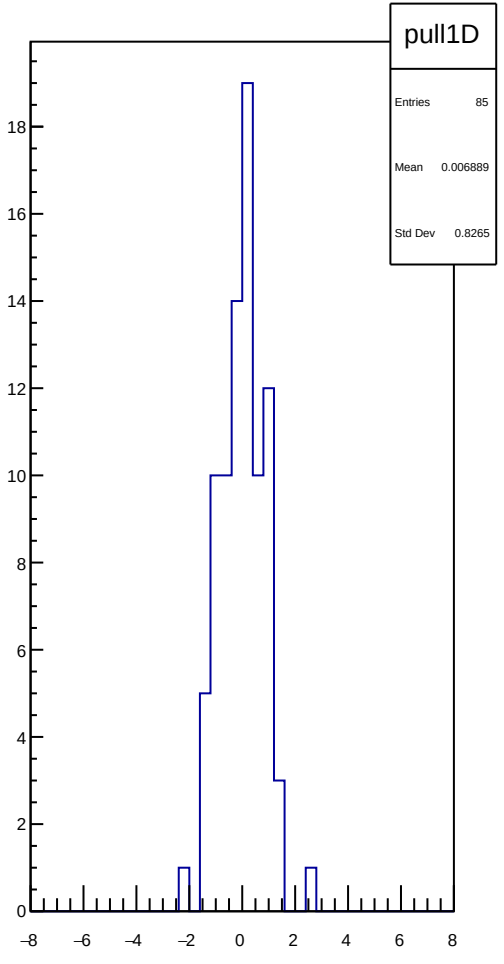

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 5605 / 84
p0 2115 ± 1.65
2400
2300
2200
2100
2000
1900

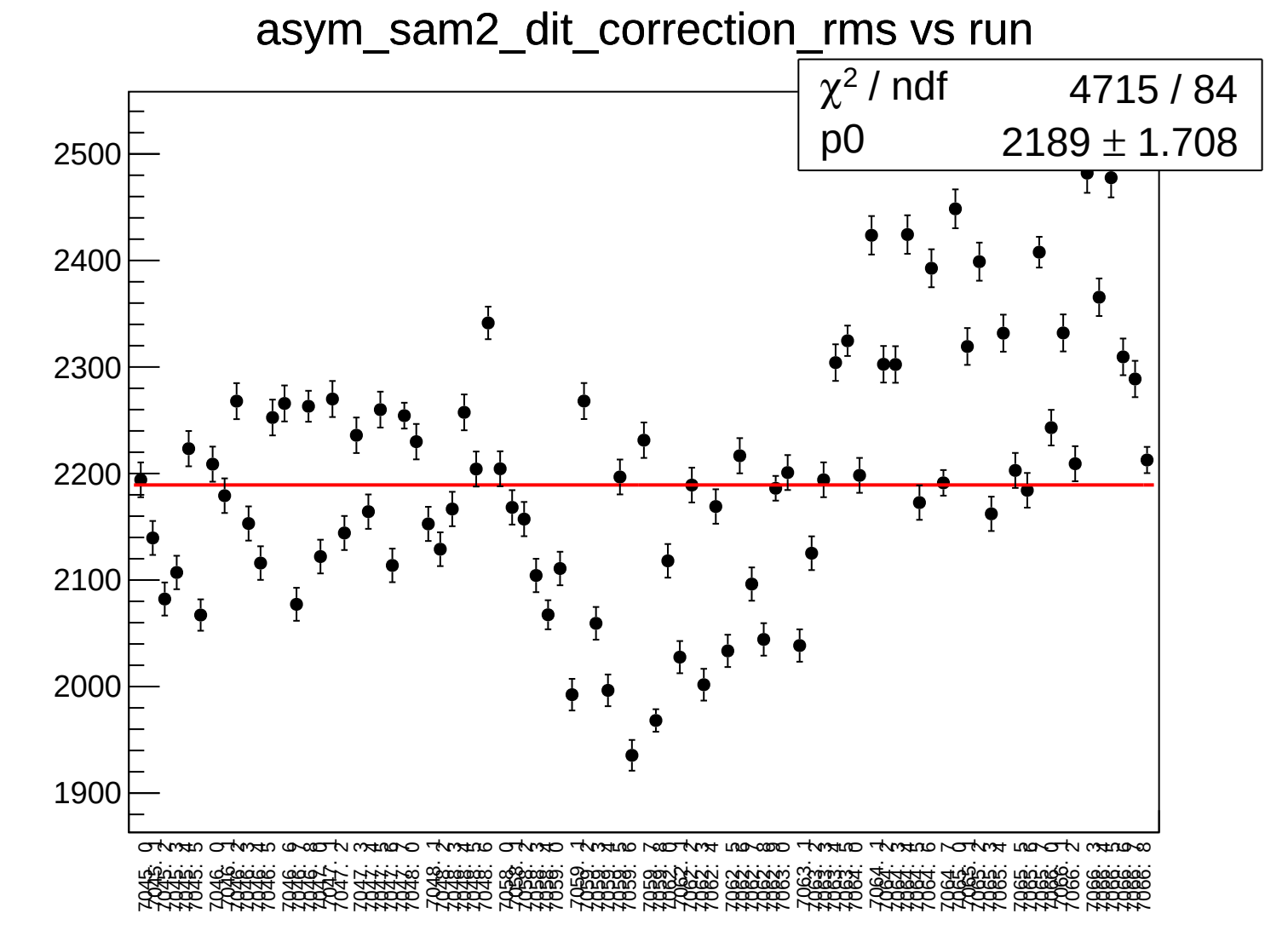

dit_asym_sam2_mean vs run
χ² / ndf 110 / 84
p0 −761 ± 338.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1.81
Std Dev 79.71
3
2
1
0
−1
−2

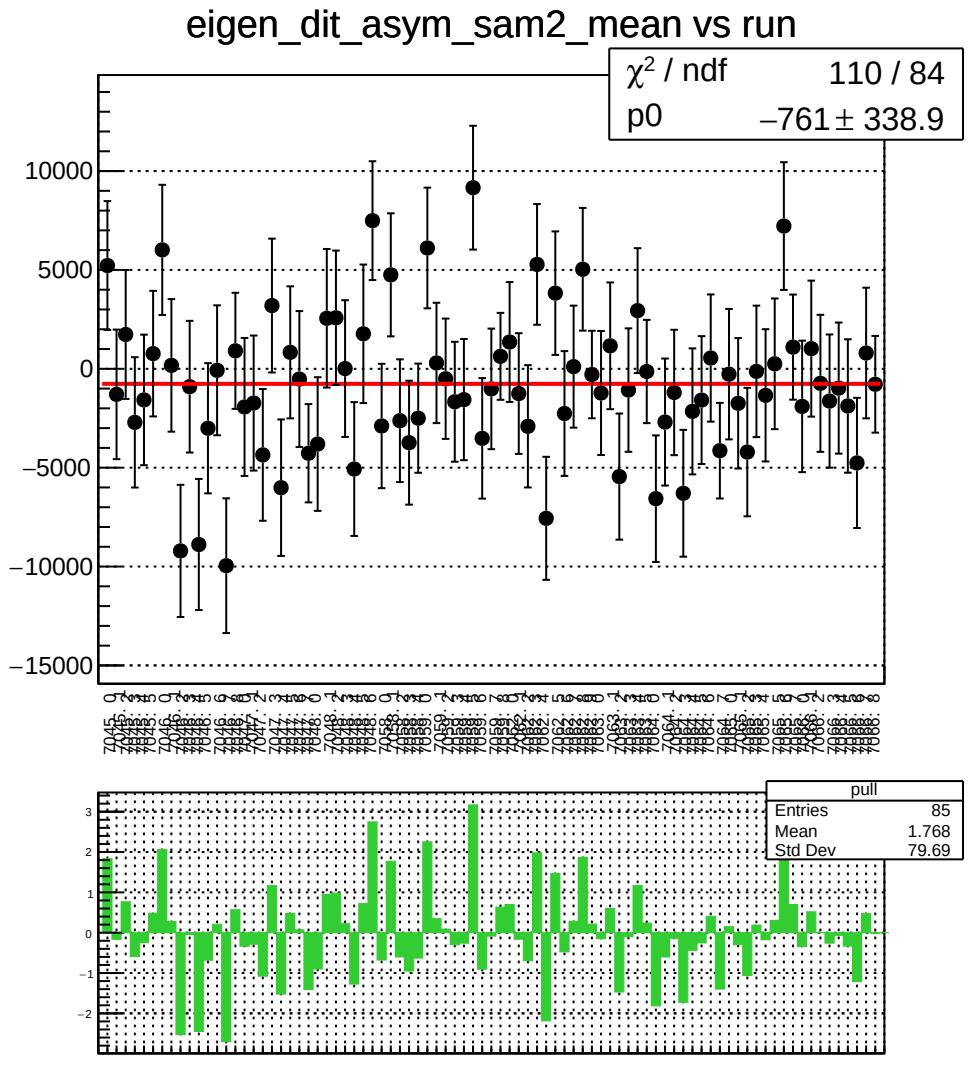

pull1D
Entries 85
Mean −0.005077
Std Dev 1.137
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

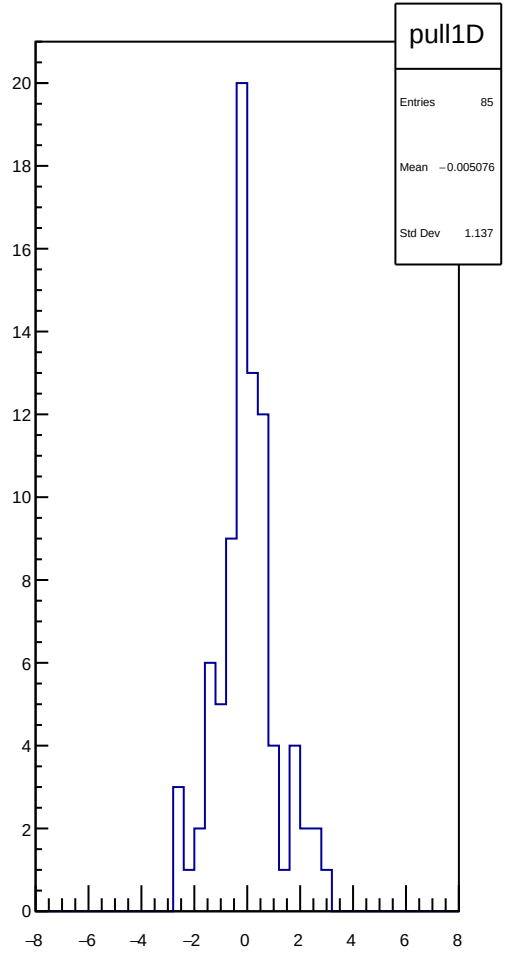

dit_asym_sam2_rms vs run
χ² / ndf 2771 / 84
p0 307.3 ± 0.2397
330
320
310
300
290

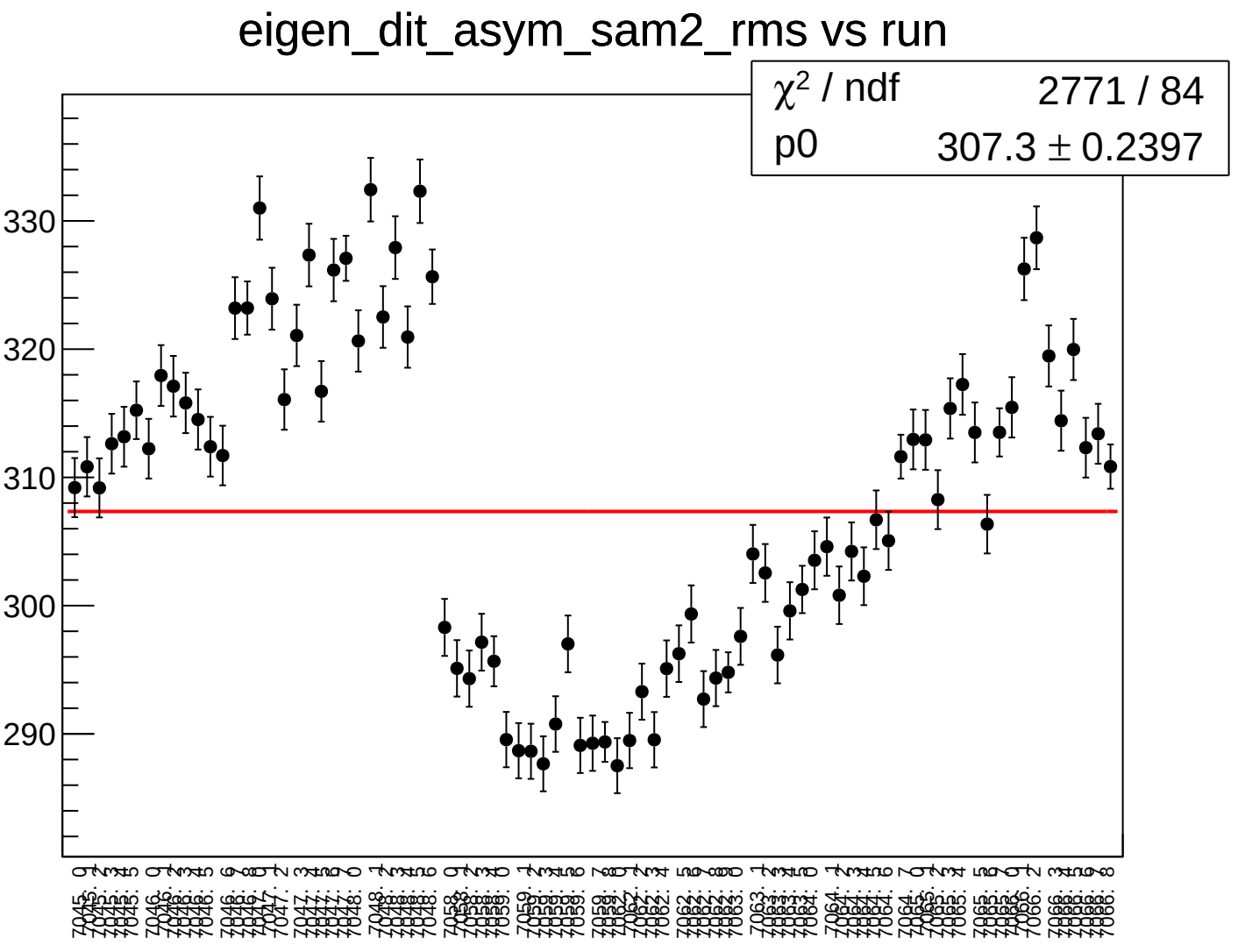

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 58.07 / 84
p0 713 ± 2416
pull
Entries 85
Mean 109.2
Std Dev 48.69

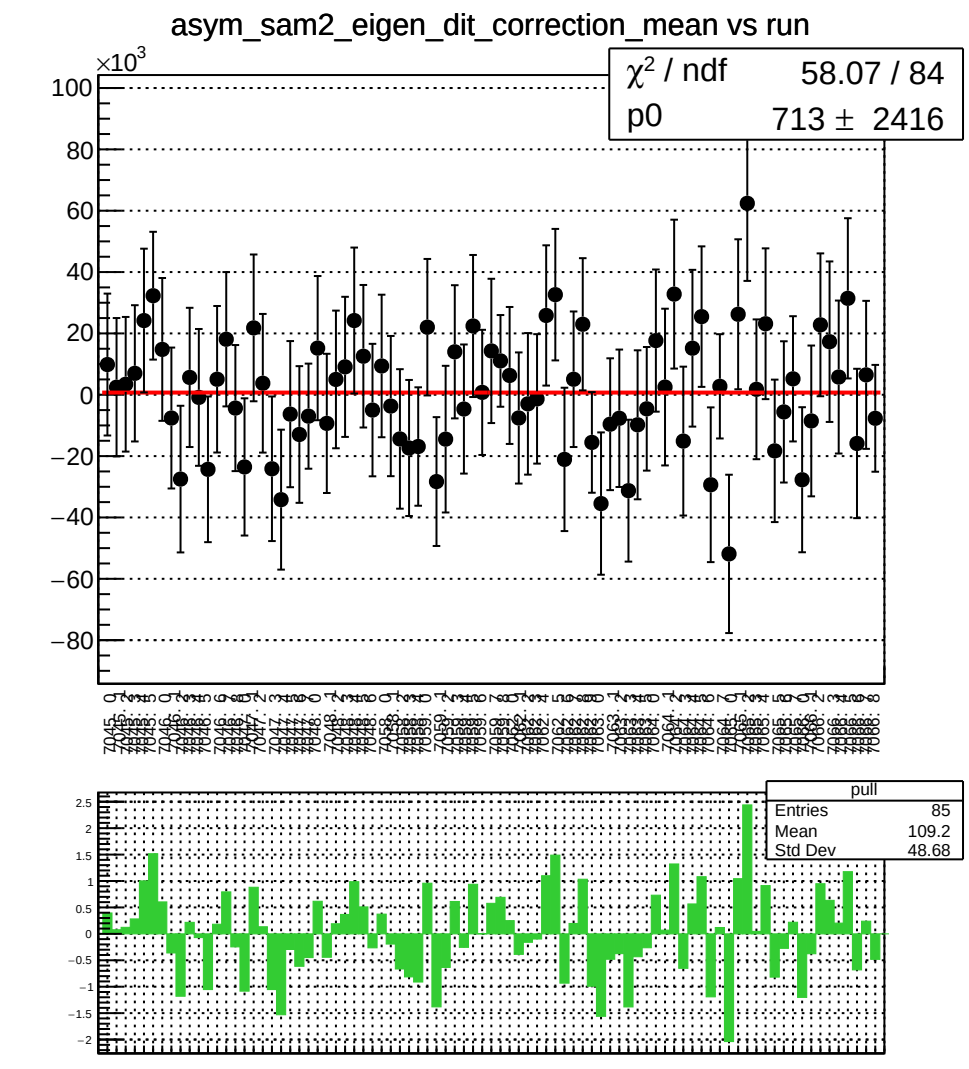

pull1D
Entries 85
Mean 0.006889
Std Dev 0.8265

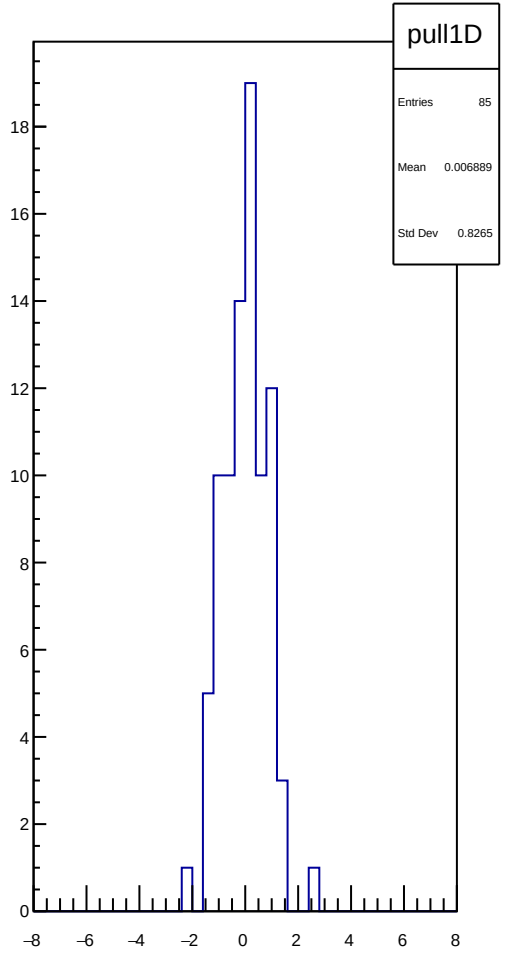

asym_sam2_dit_correction_rms vs run
χ² / ndf 4715 / 84
p0 2189 ± 1.708
2500
2400
2300
2200
2100
2000
1900

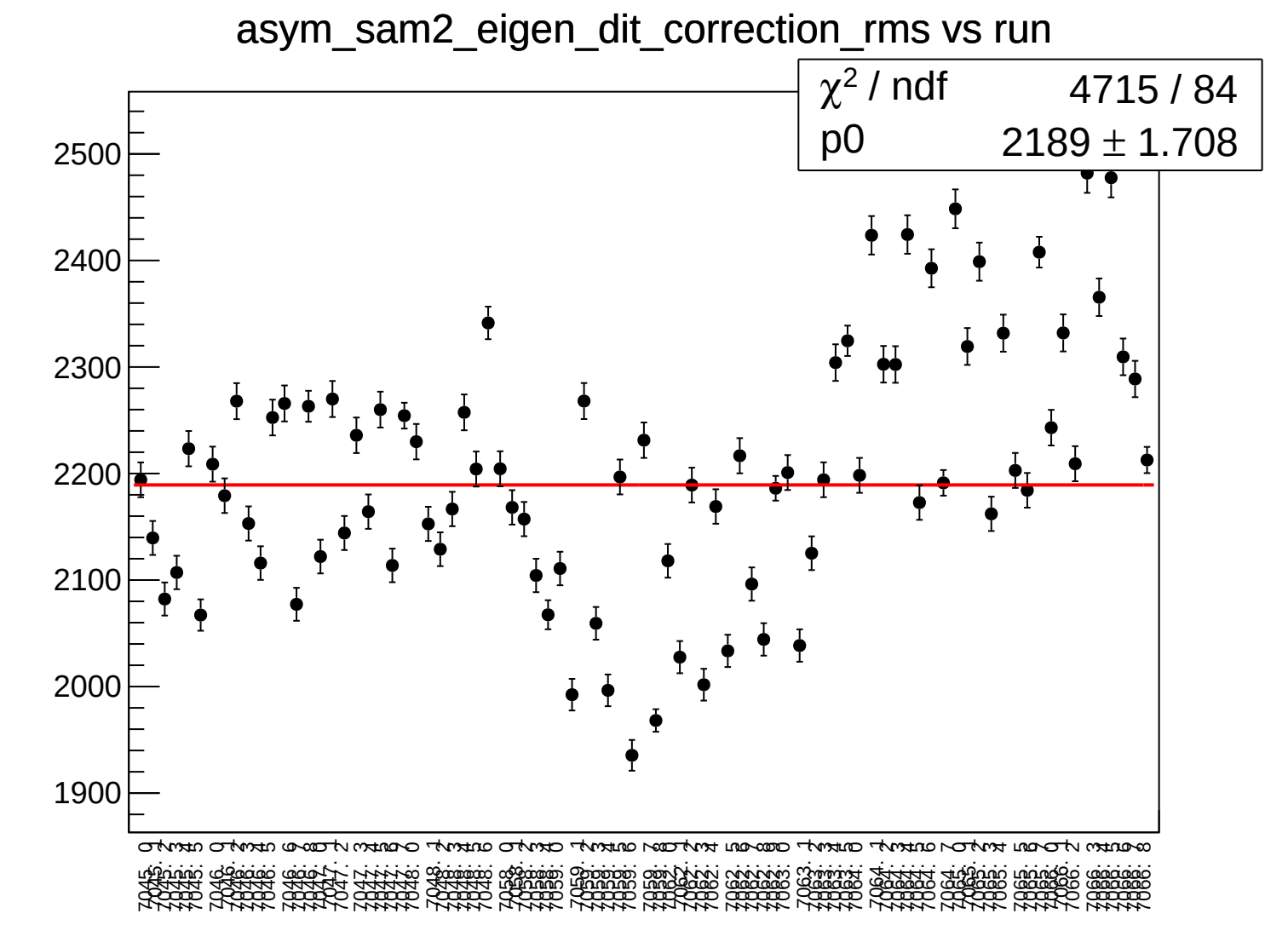

eigen_dit_asym_sam2_mean vs run
χ² / ndf 110 / 84
p0 −761 ± 338.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1.768
Std Dev 79.69
3
2
1
0
−1
−2

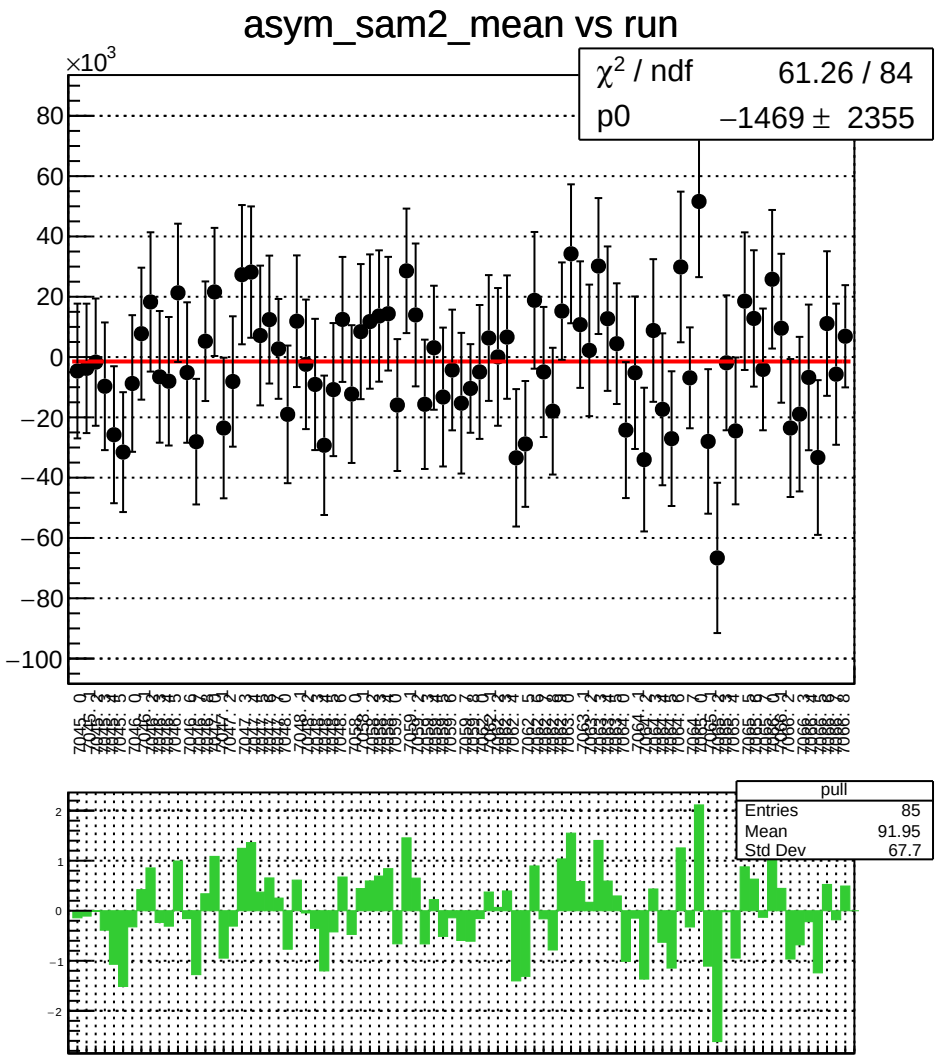

pull1D
Entries 85
Mean −0.005076
Std Dev 1.137
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

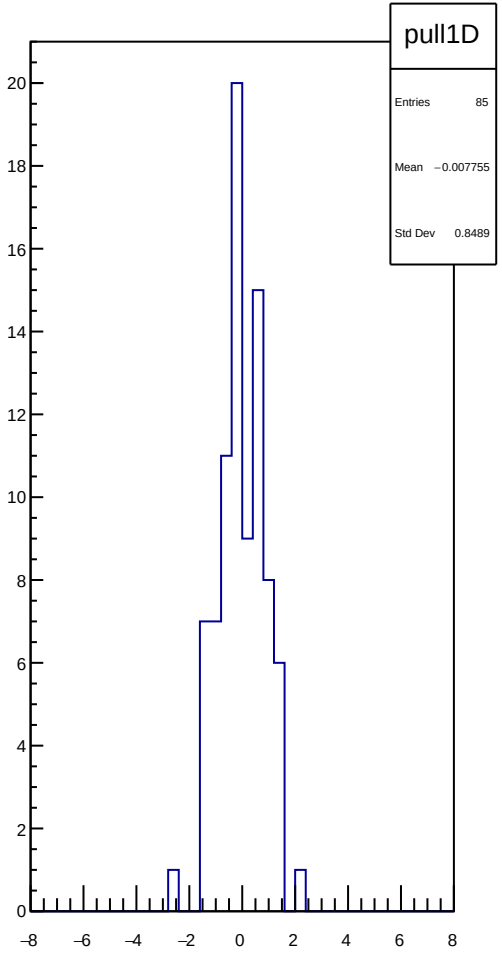

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2771 / 84
p0 307.3 ± 0.2397
330
320
310
300
290

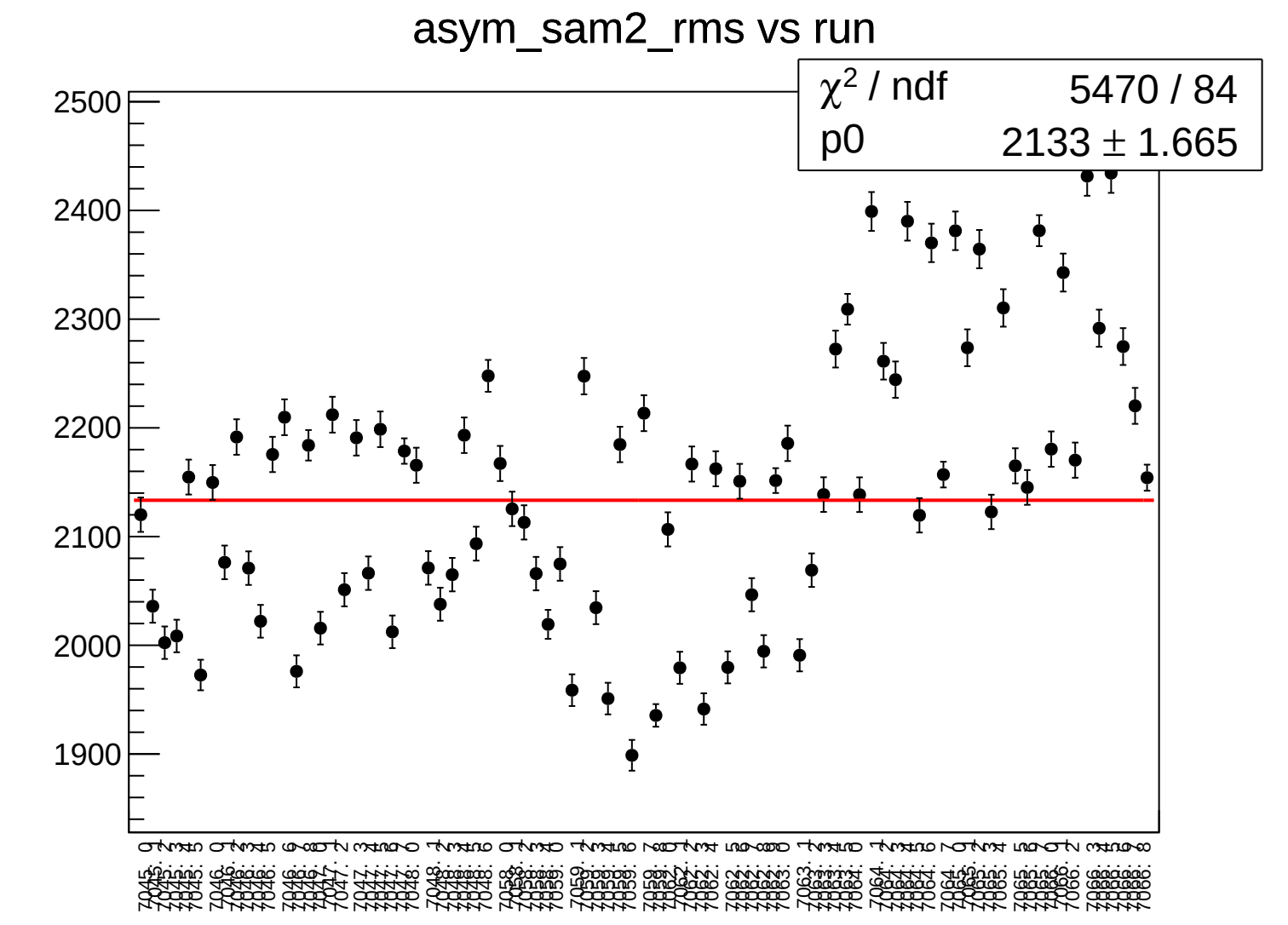

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 58.07 / 84
p0 713 ± 2416
pull
Entries 85
Mean 109.2
Std Dev 48.68

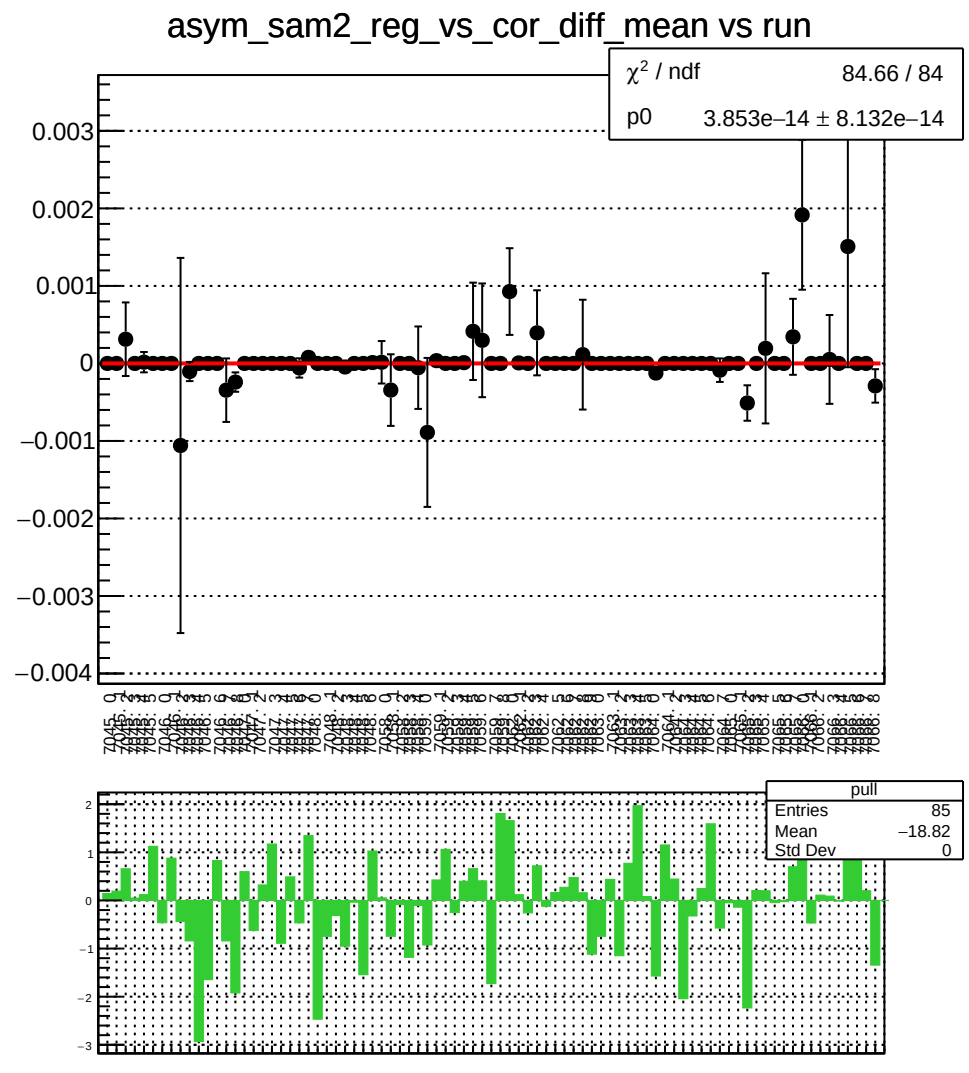

pull1D
Entries 85
Mean 0.006889
Std Dev 0.8265

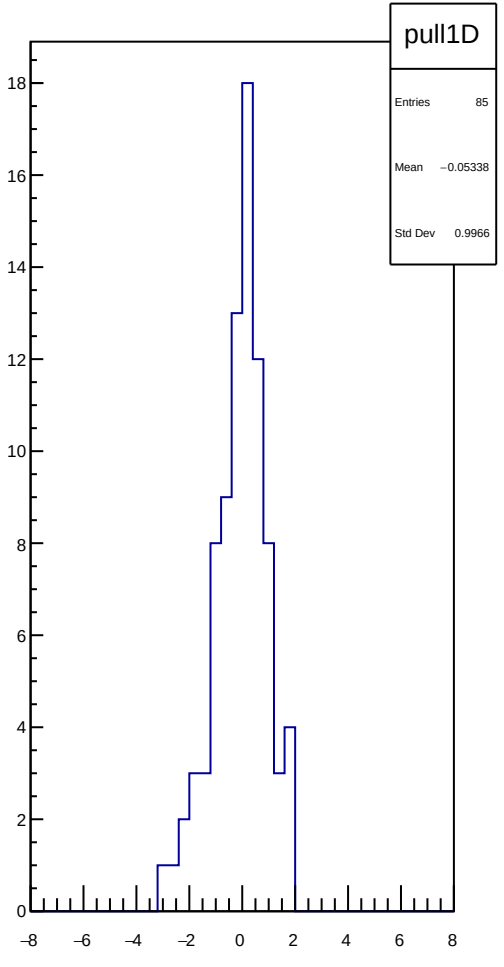

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 4715 / 84
p0 2189 ± 1.708
2500
2400
2300
2200
2100
2000
1900

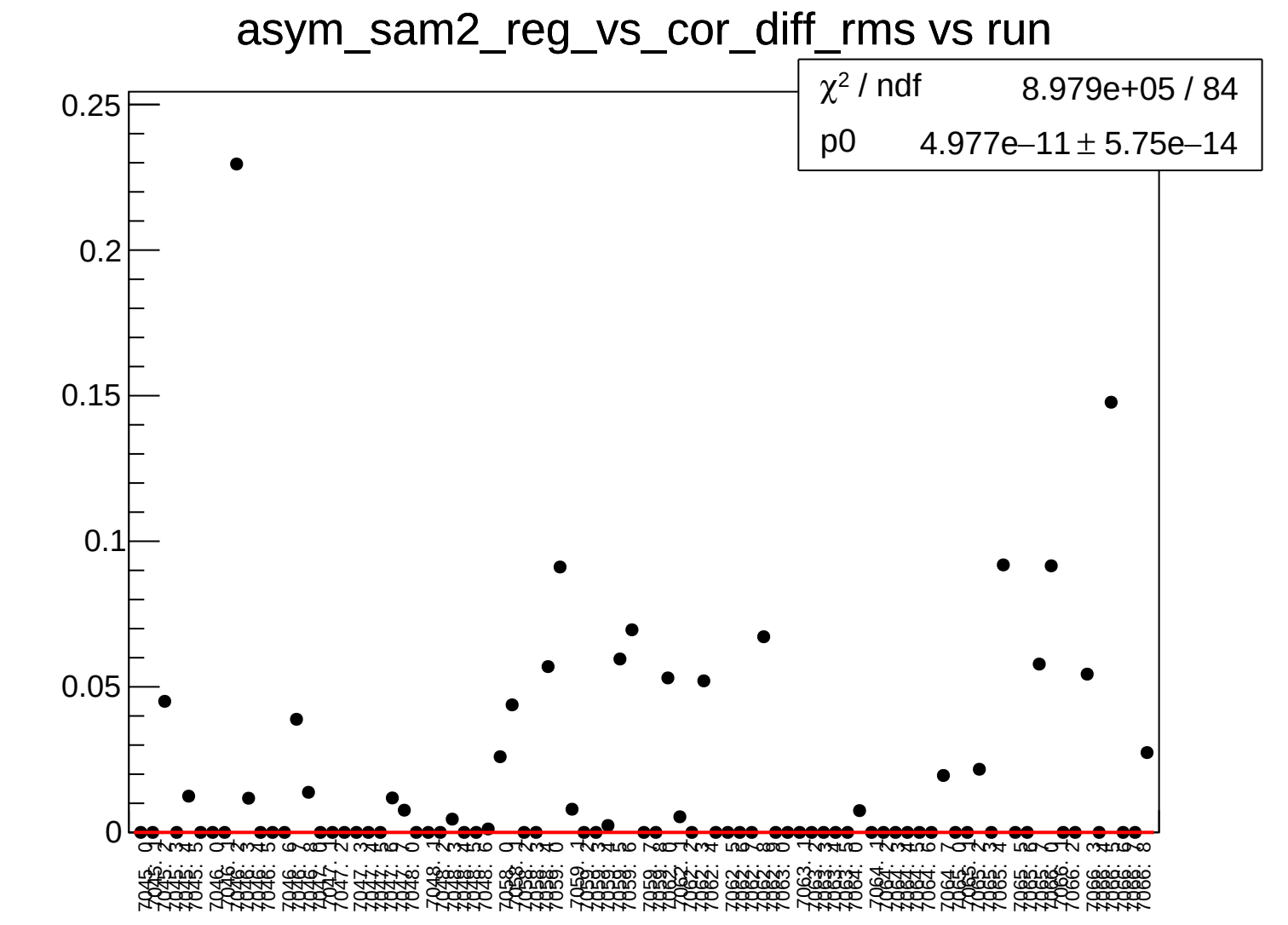

asym_sam2_mean vs run
×10^3
χ² / ndf 61.26 / 84
p0 −1469 ± 2355
pull
Entries 85
Mean 91.95
Std Dev 67.7

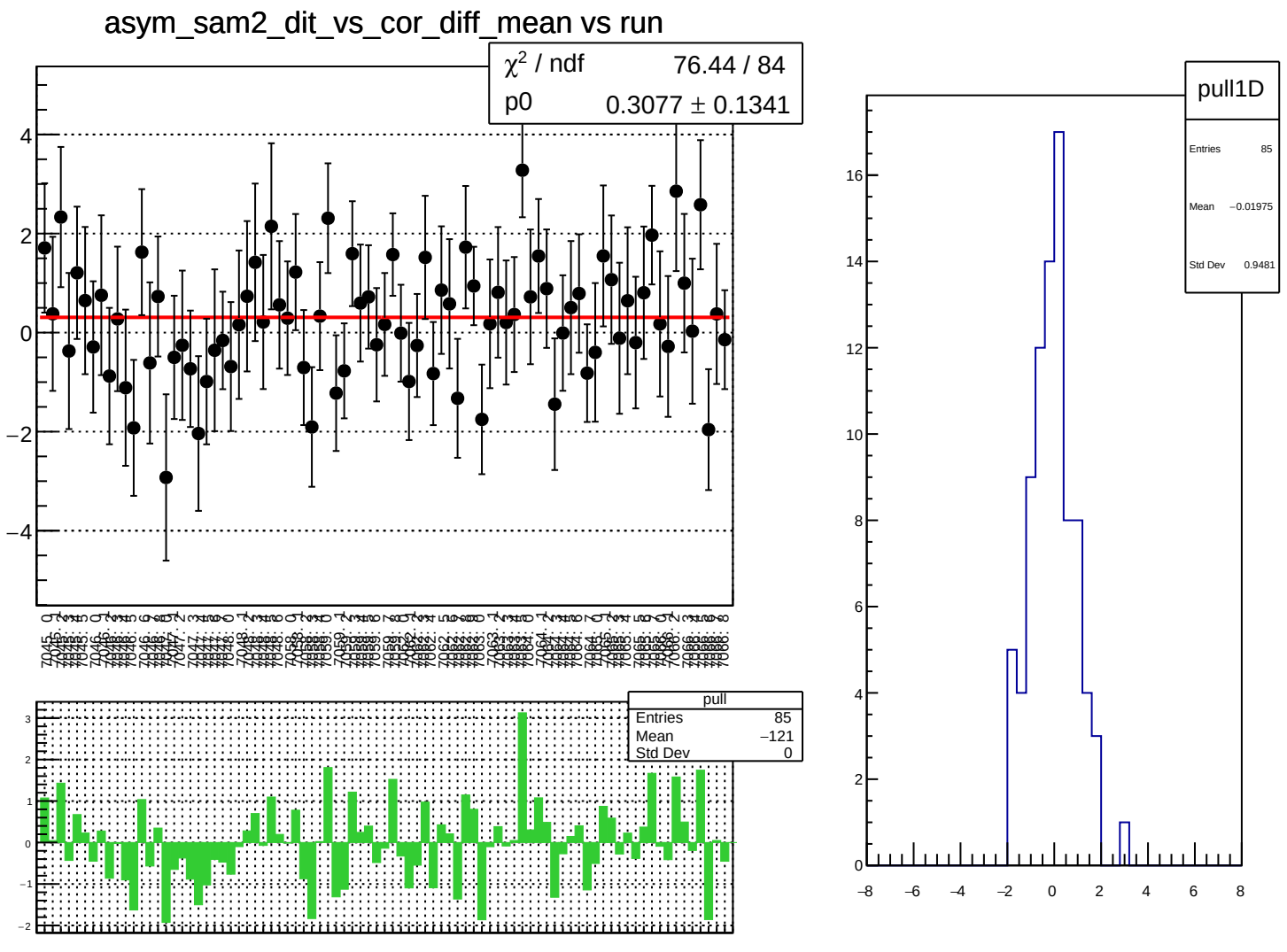

pull1D
Entries 85
Mean −0.007755
Std Dev 0.8489

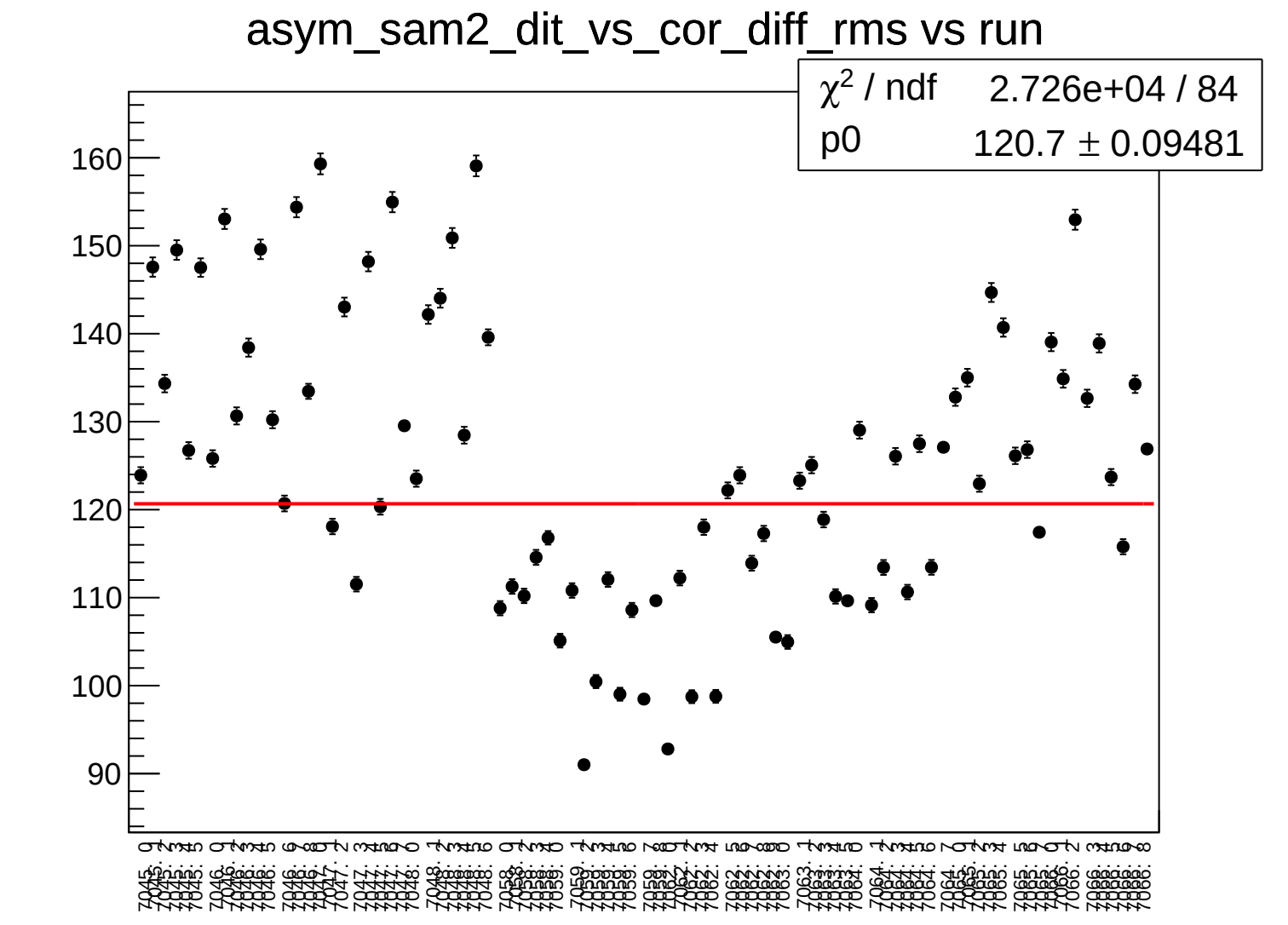

asym_sam2_rms vs run
χ² / ndf 5470 / 84
p0 2133 ± 1.665
2500
2400
2300
2200
2100
2000
1900

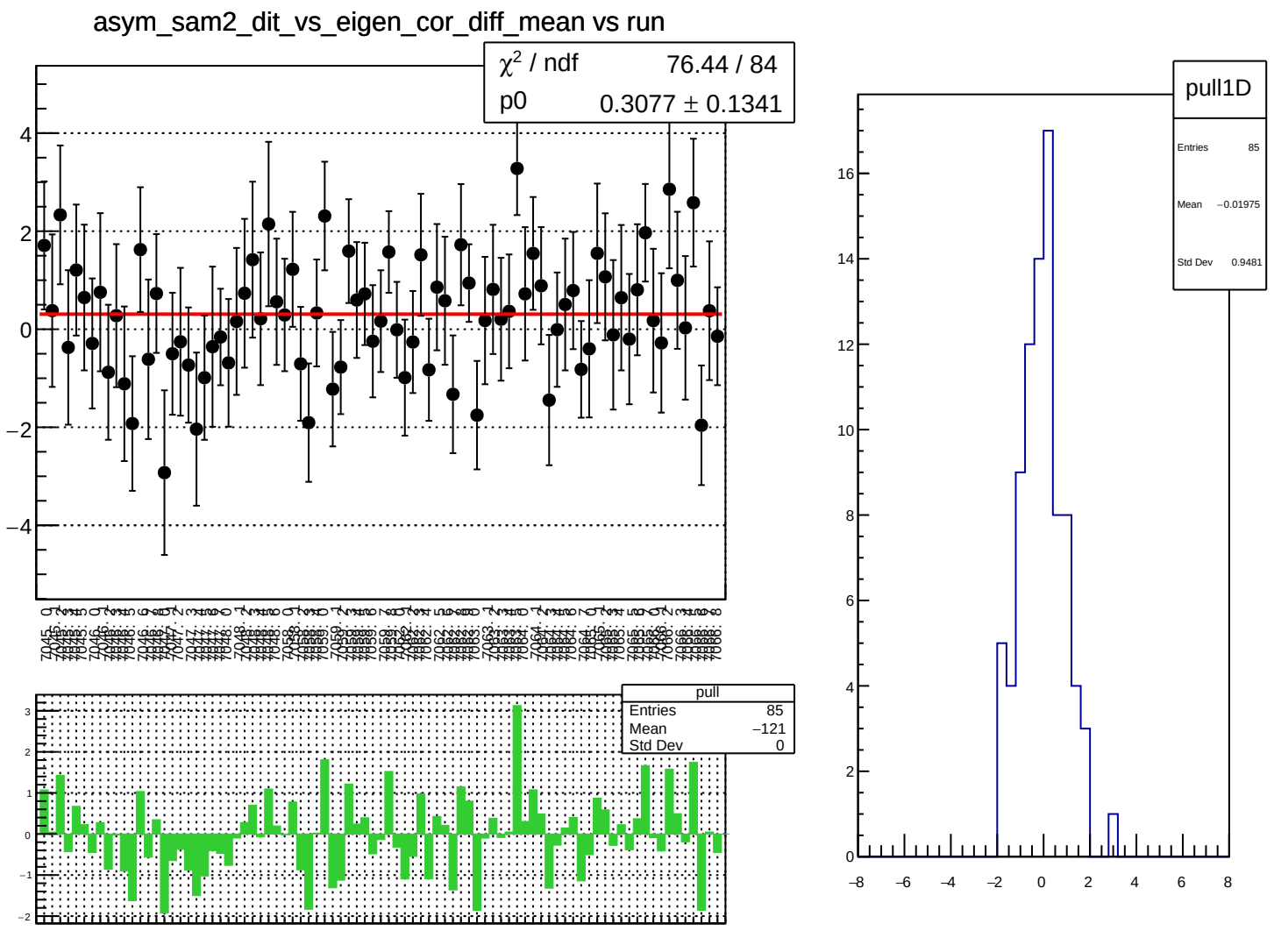

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 84.66 / 84
p0 3.853e−14 ± 8.132e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 85
Mean −18.82
Std Dev 0

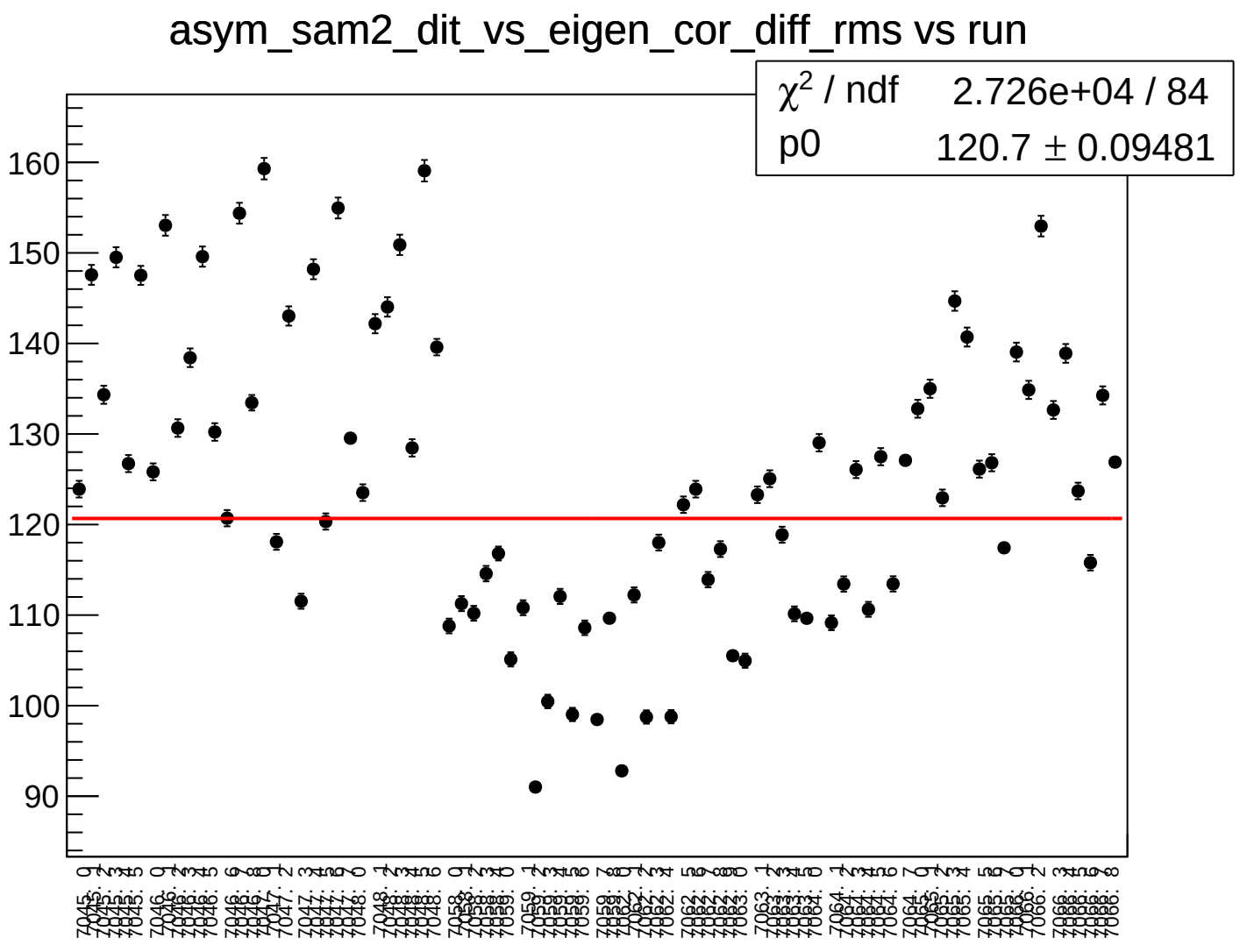

pull1D
Entries 85
Mean −0.05338
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

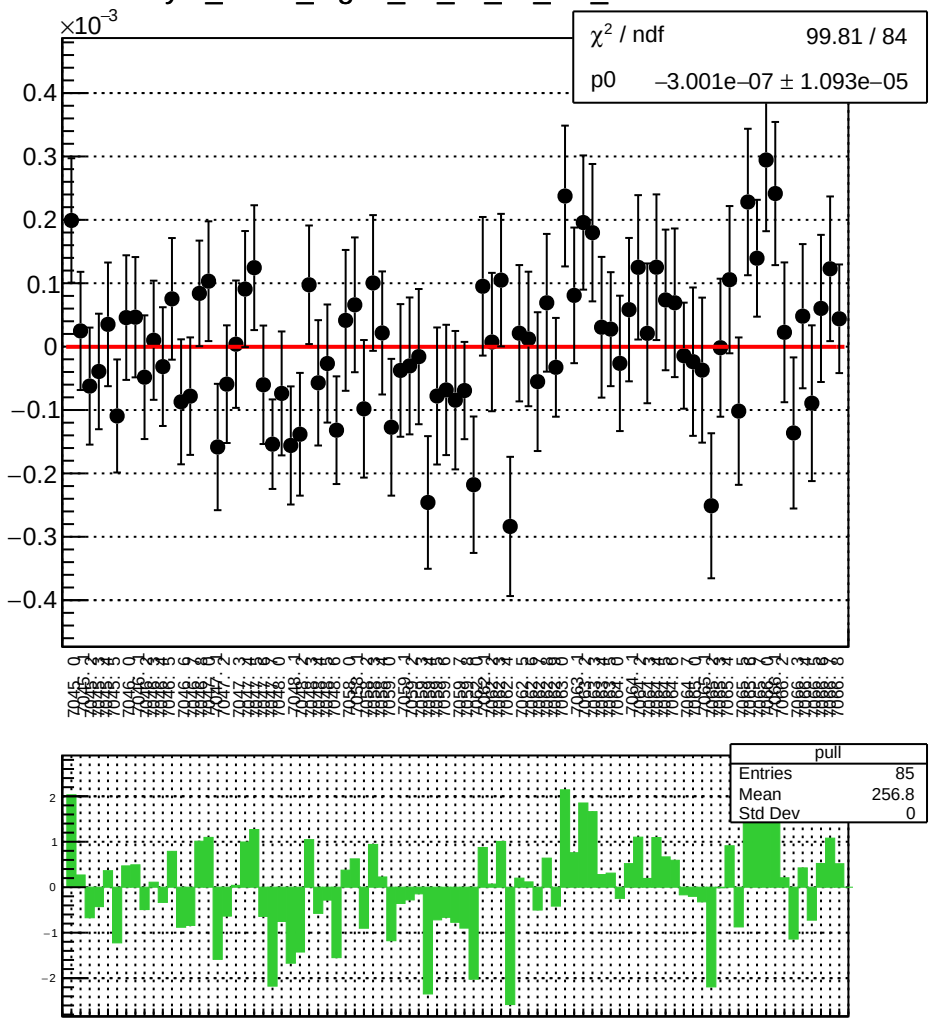

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.979e+05 / 84
p0 4.977e−11 ± 5.75e−14
0.25
0.2
0.15
0.1
0.05
0

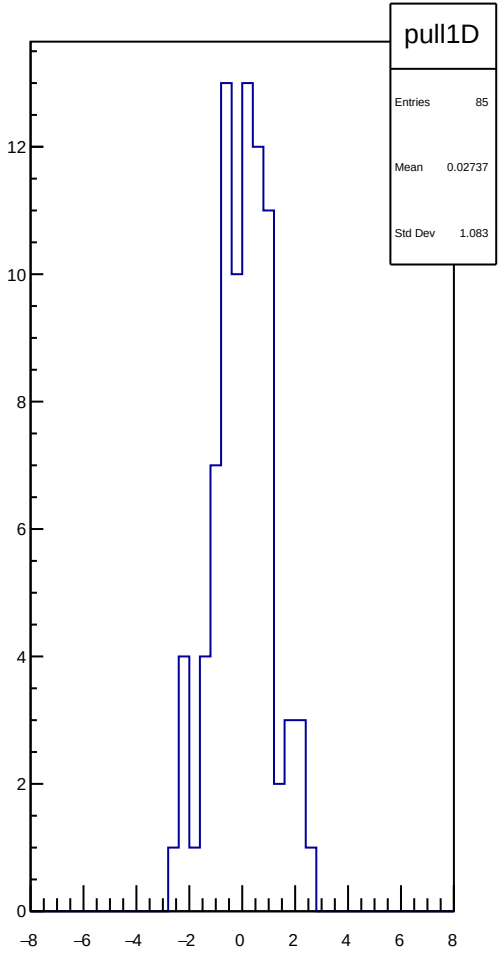

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.44 / 84
p0 0.3077 ± 0.1341
pull
Entries 85
Mean −121
Std Dev 0
pull1D
Entries 85
Mean −0.01975
Std Dev 0.9481

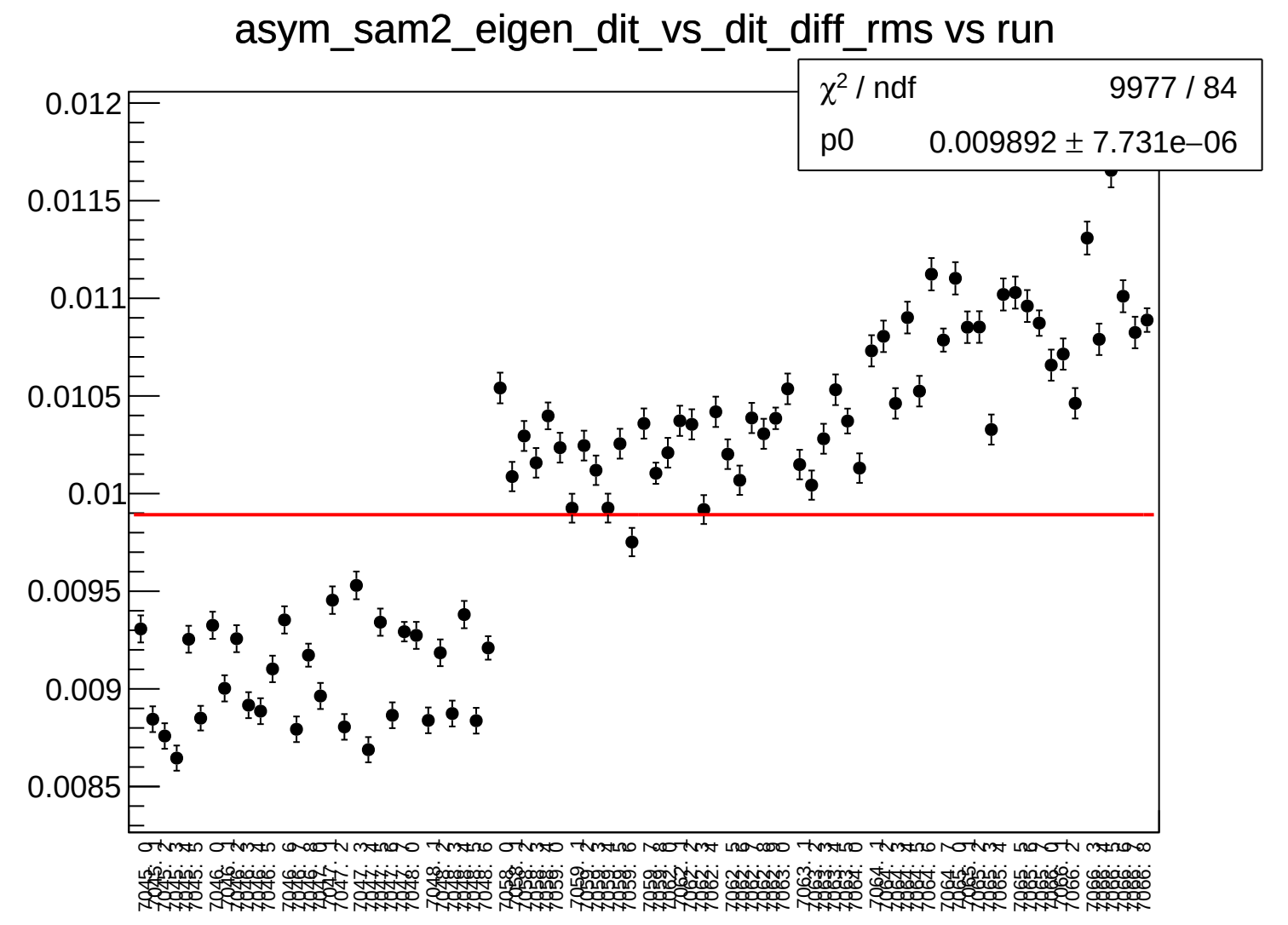

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.726e+04 / 84
p0 120.7 ± 0.09481
160
150
140
130
120
110
100
90

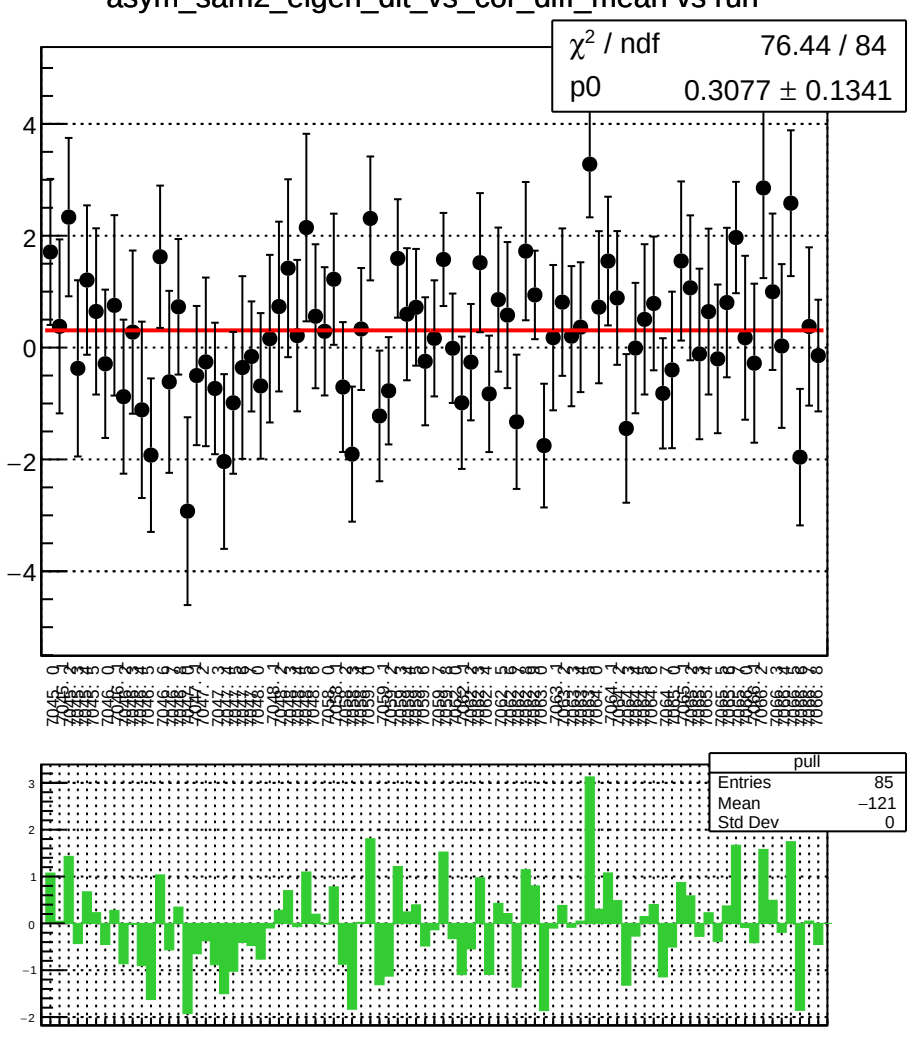

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.44 / 84
p0 0.3077 ± 0.1341
pull
Entries 85
Mean −121
Std Dev 0
pull1D
Entries 85
Mean −0.01975
Std Dev 0.9481

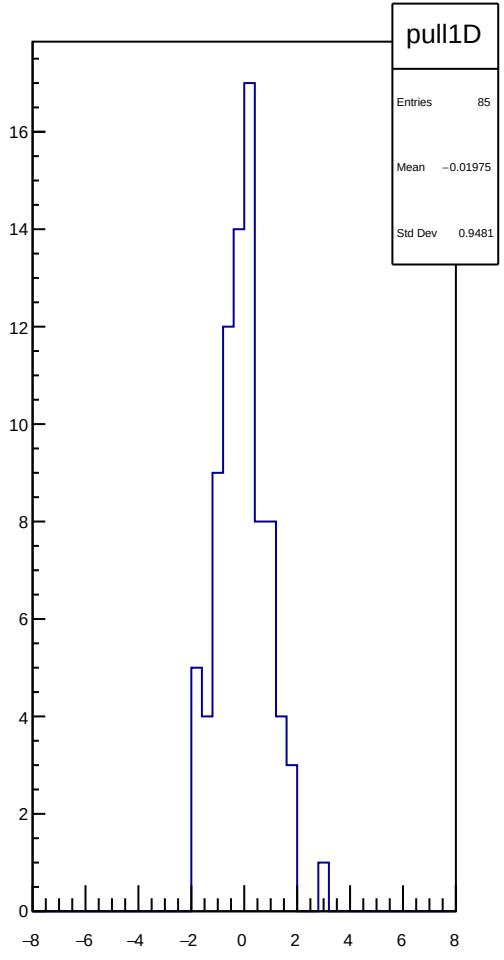

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.726e+04 / 84
p0 120.7 ± 0.09481
160
150
140
130
120
110
100
90

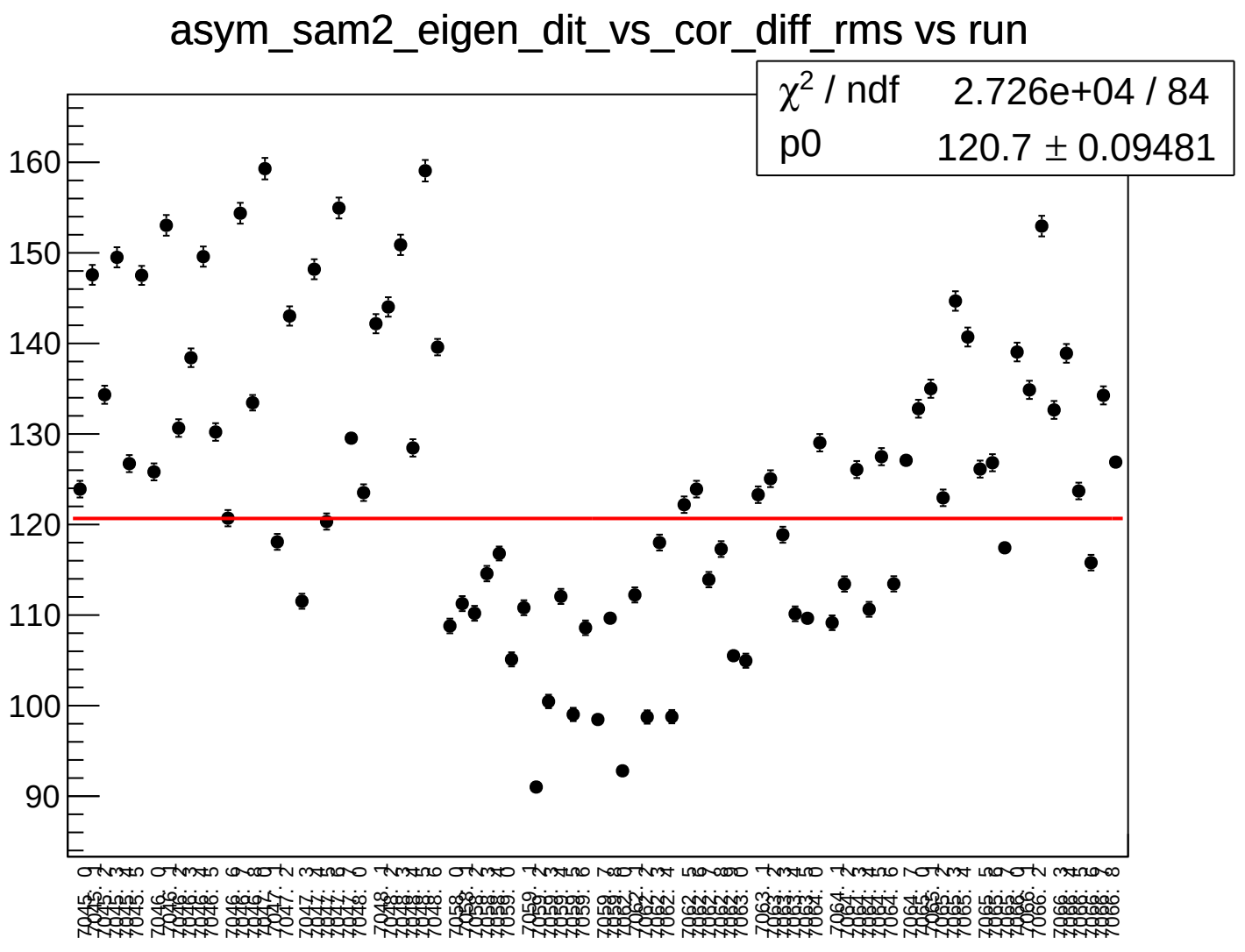

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.81 / 84
p0 −3.001e−07 ± 1.093e−05
pull
Entries 85
Mean 256.8
Std Dev 0

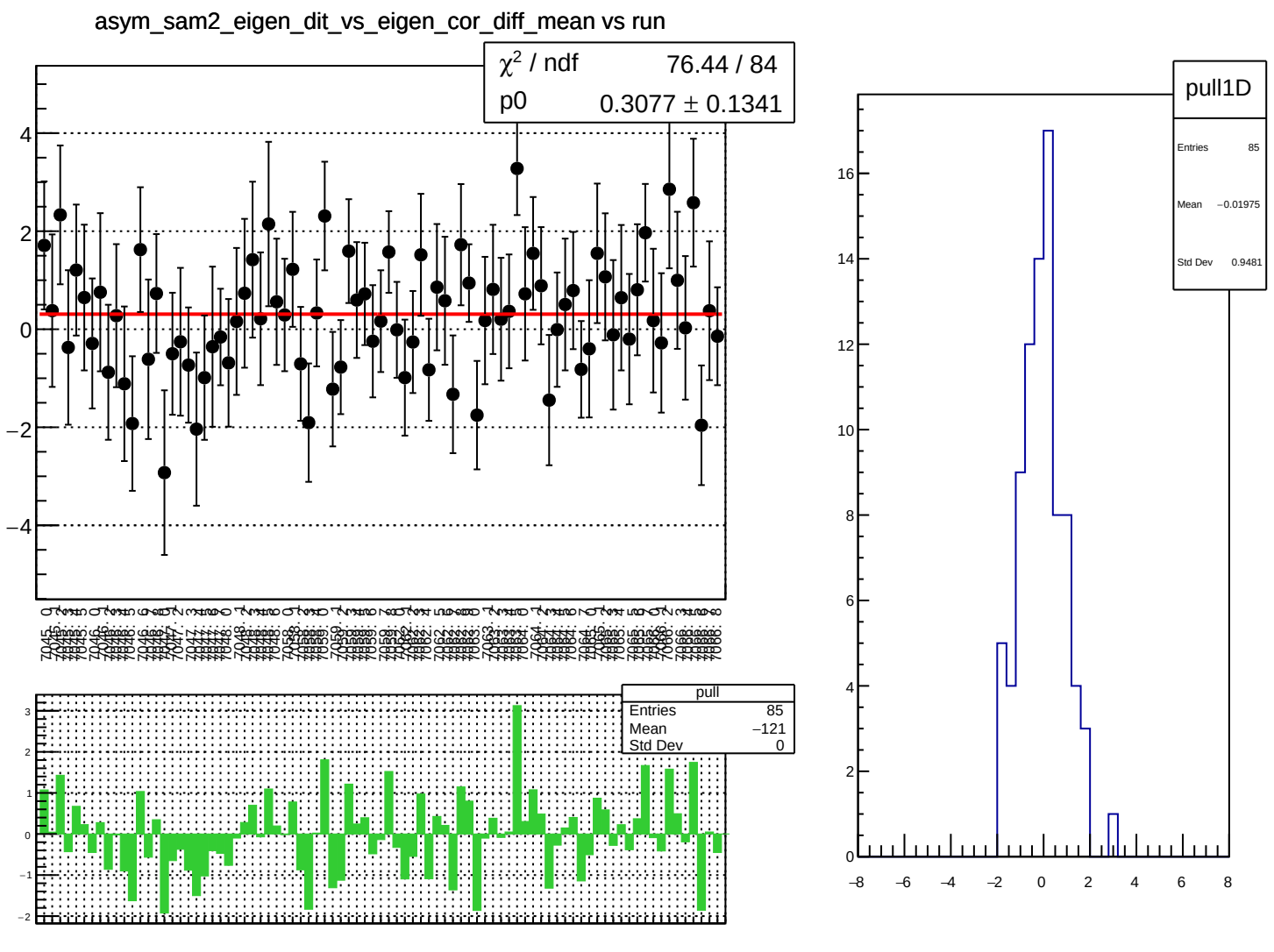

pull1D
Entries 85
Mean 0.02737
Std Dev 1.083

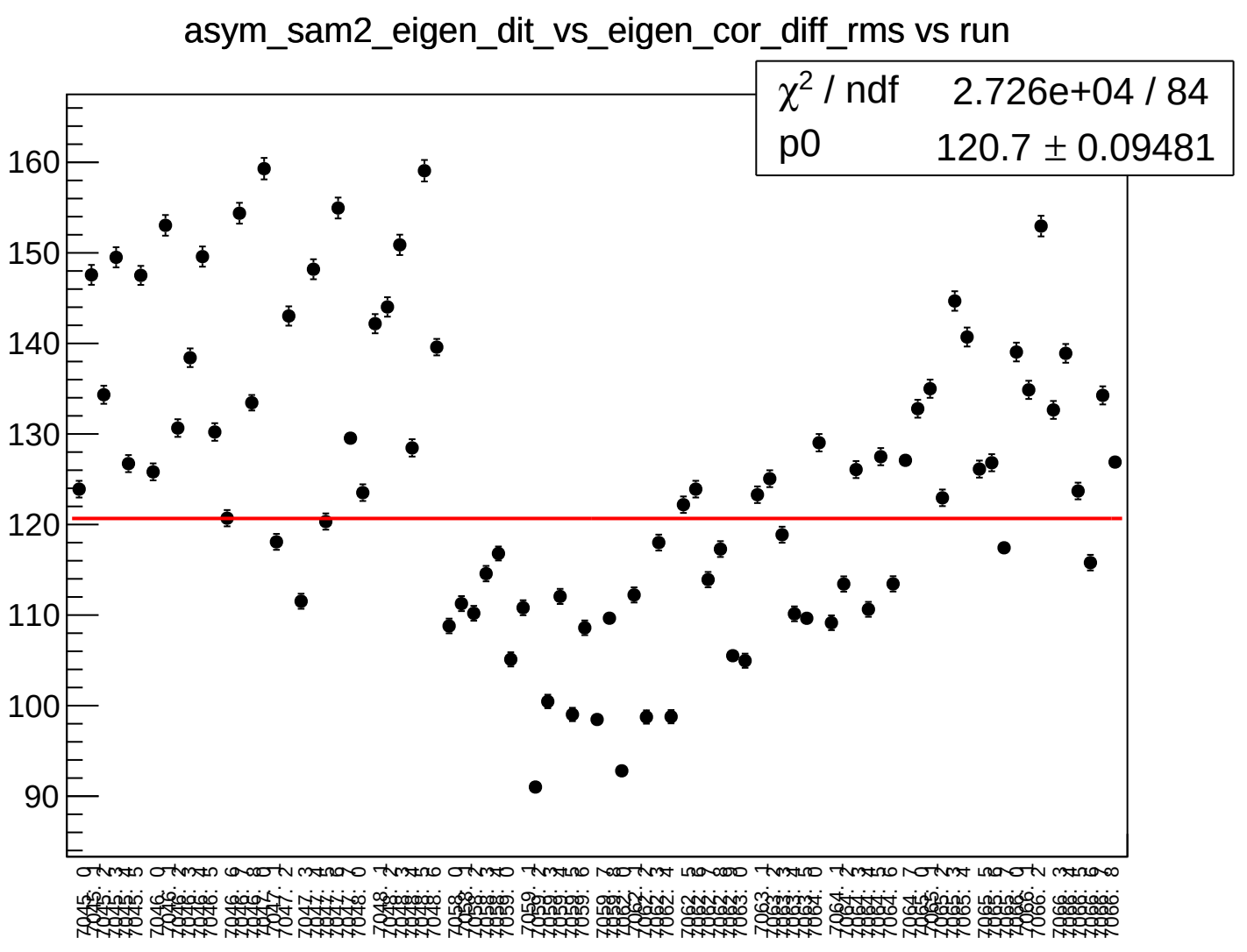

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9977 / 84
p0 0.009892 ± 7.731e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

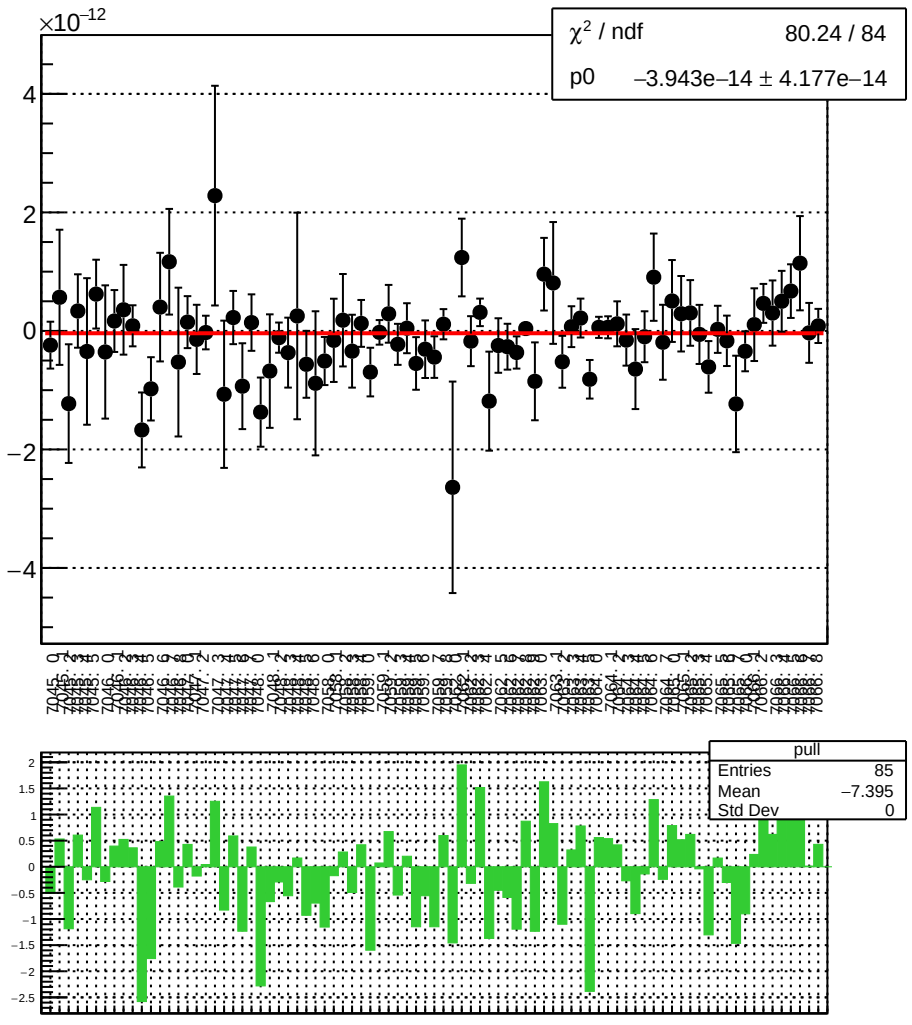

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.44 / 84
p0 0.3077 ± 0.1341
pull
Entries 85
Mean −121
Std Dev 0

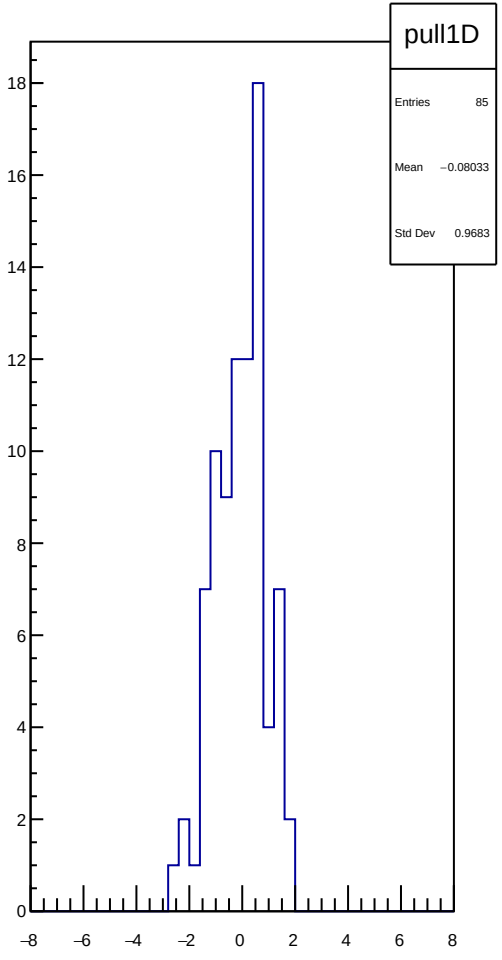

pull1D
Entries 85
Mean −0.01975
Std Dev 0.9481

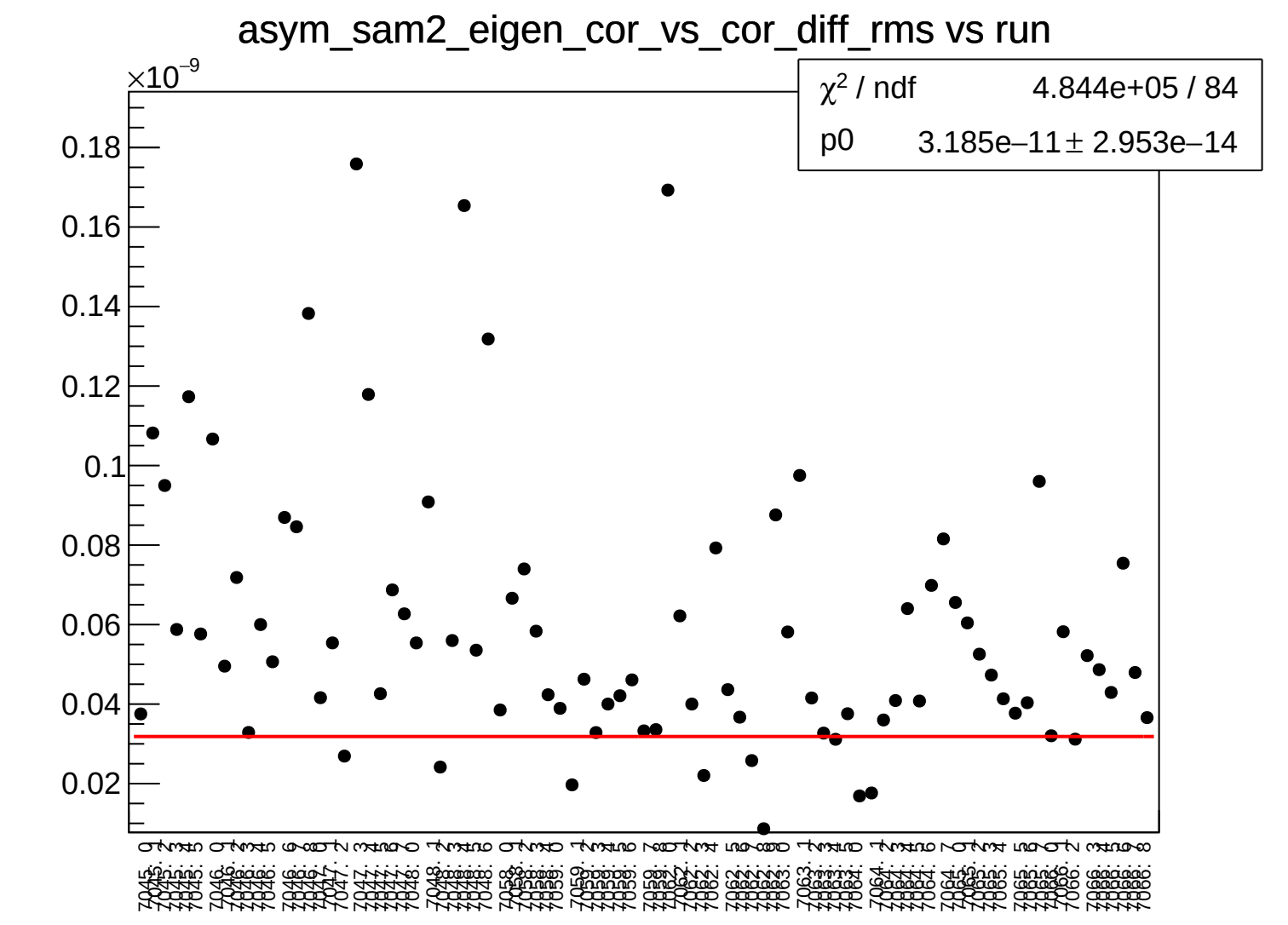

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.726e+04 / 84
p0 120.7 ± 0.09481
160
150
140
130
120
110
100
90

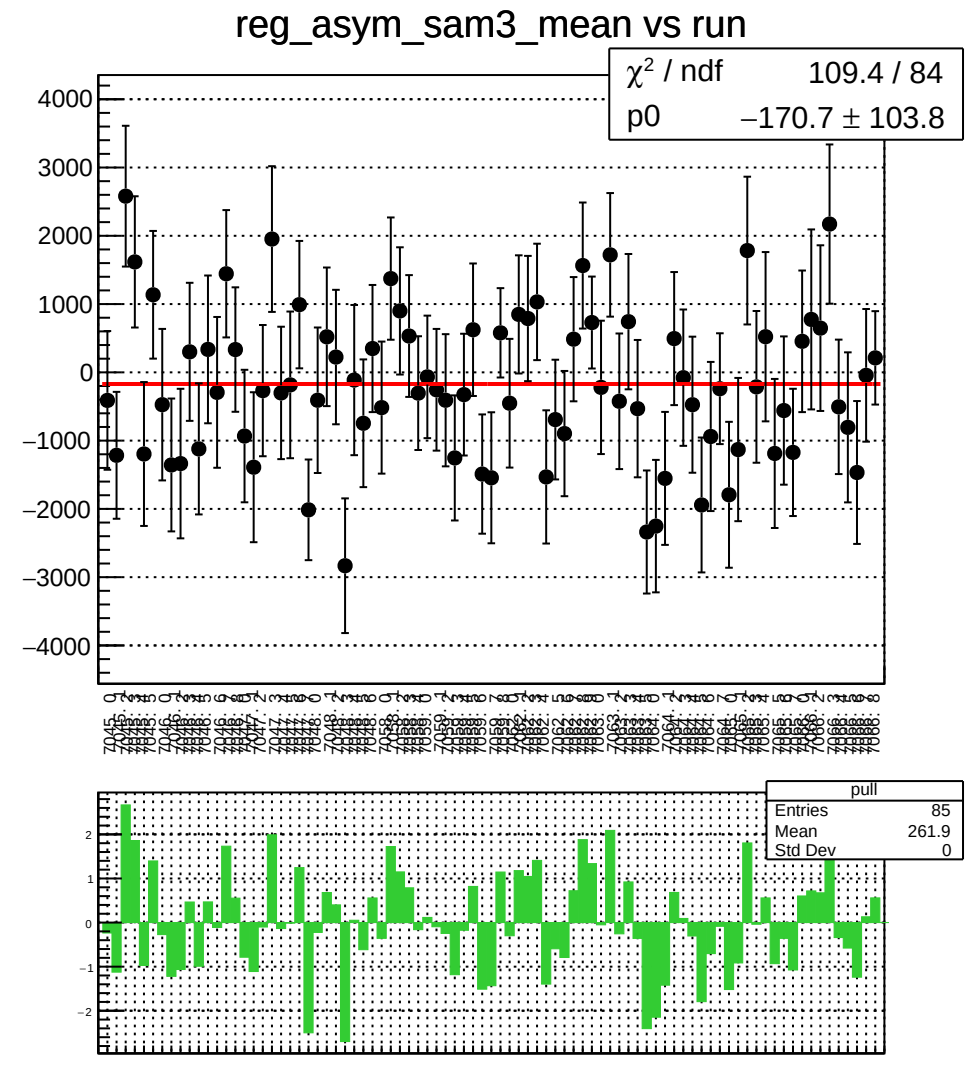

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.44 / 84
p0 0.3077 ± 0.1341
pull
Entries 85
Mean −121
Std Dev 0
pull1D
Entries 85
Mean −0.01975
Std Dev 0.9481

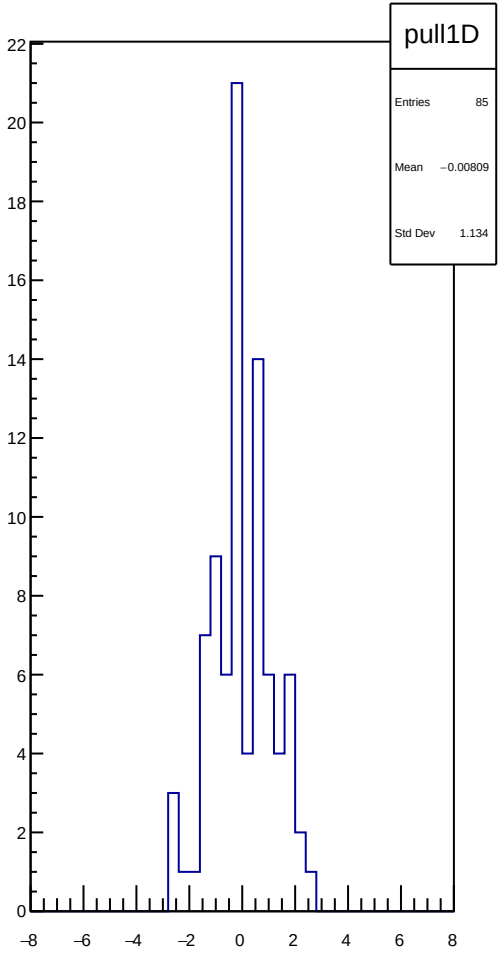

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.726e+04 / 84
p0 120.7 ± 0.09481
160
150
140
130
120
110
100
90

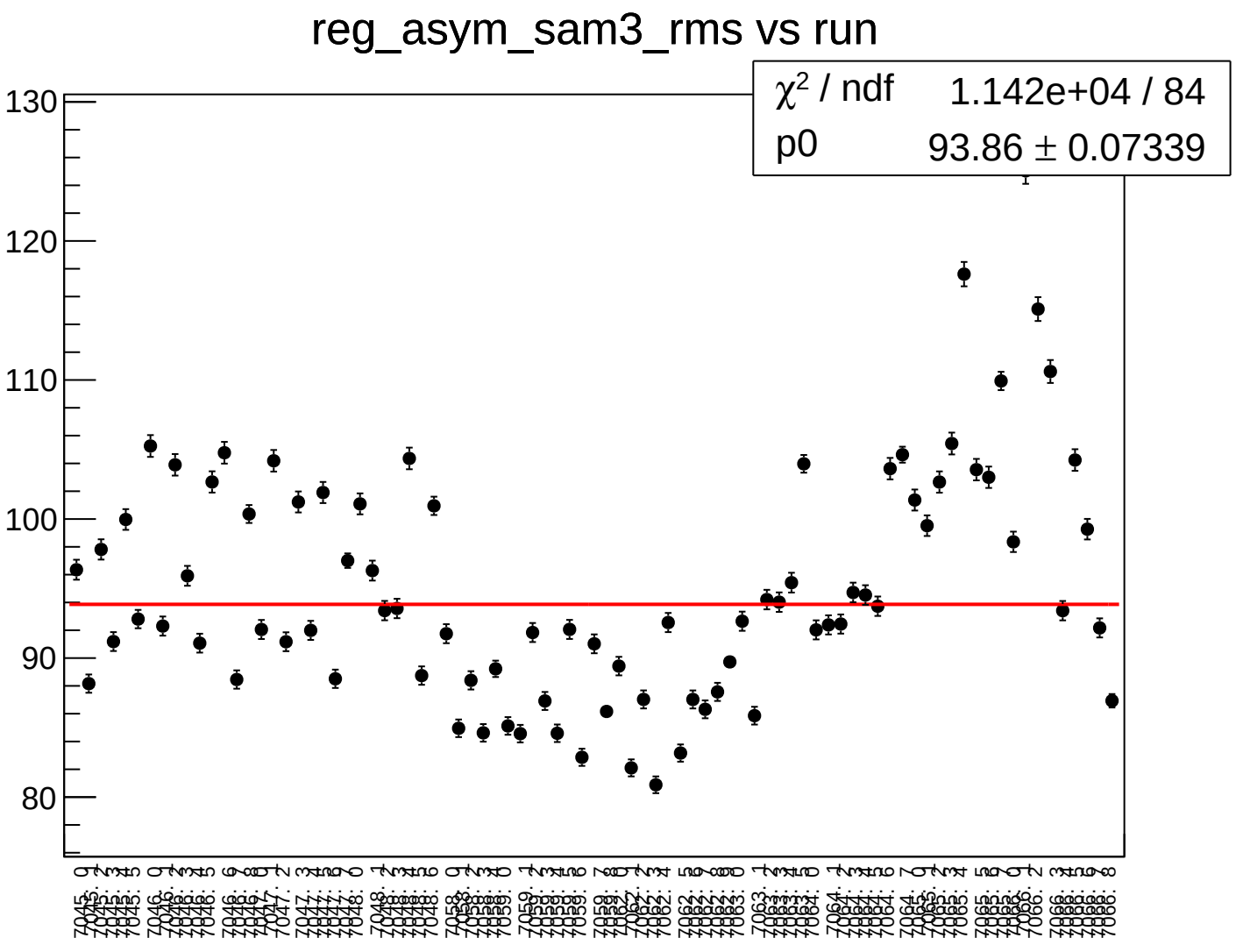

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.24 / 84
p0 −3.943e−14 ± 4.177e−14
pull
Entries 85
Mean −7.395
Std Dev 0

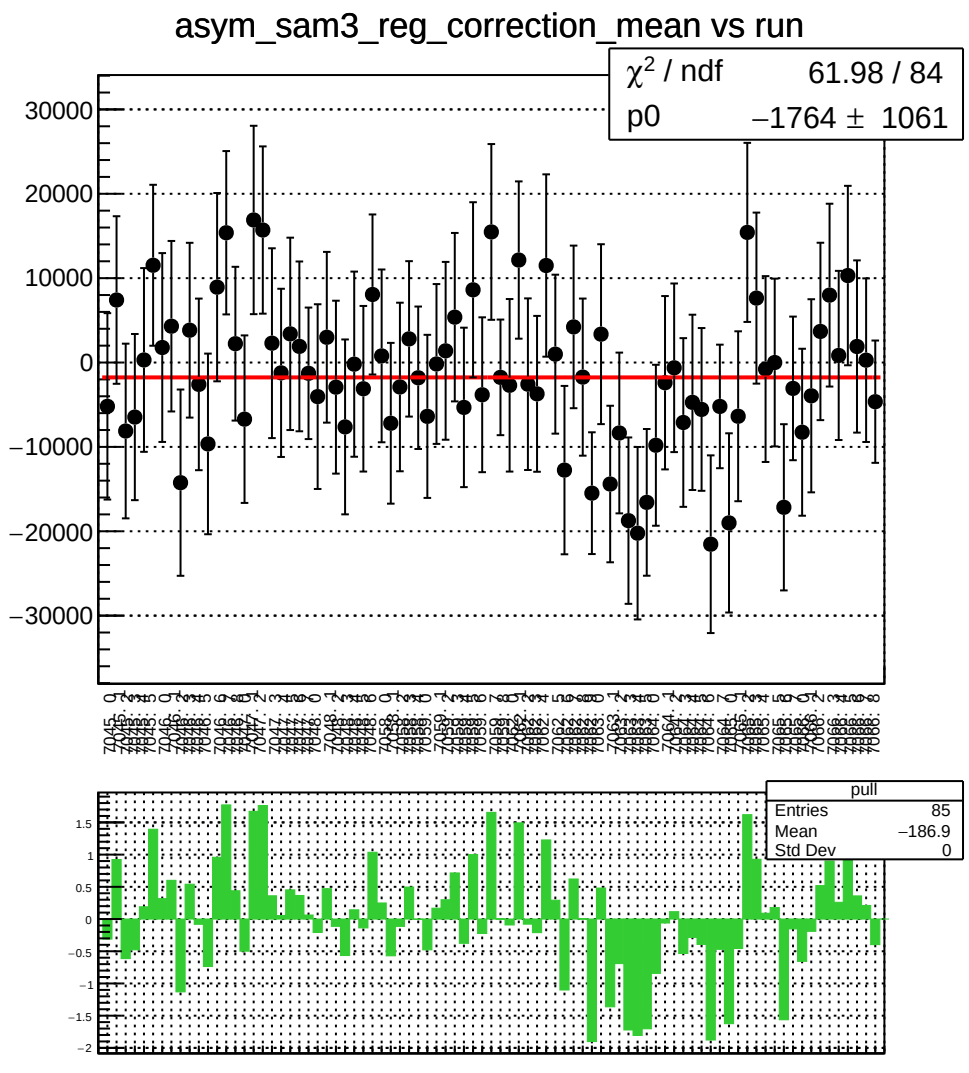

pull1D
Entries 85
Mean −0.08033
Std Dev 0.9683

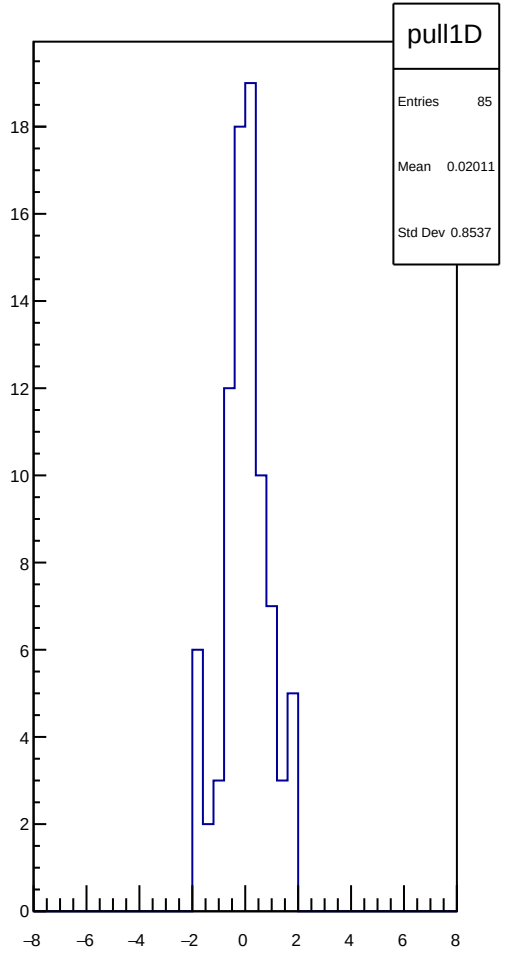

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.844e+05 / 84
p0 3.185e−11 ± 2.953e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

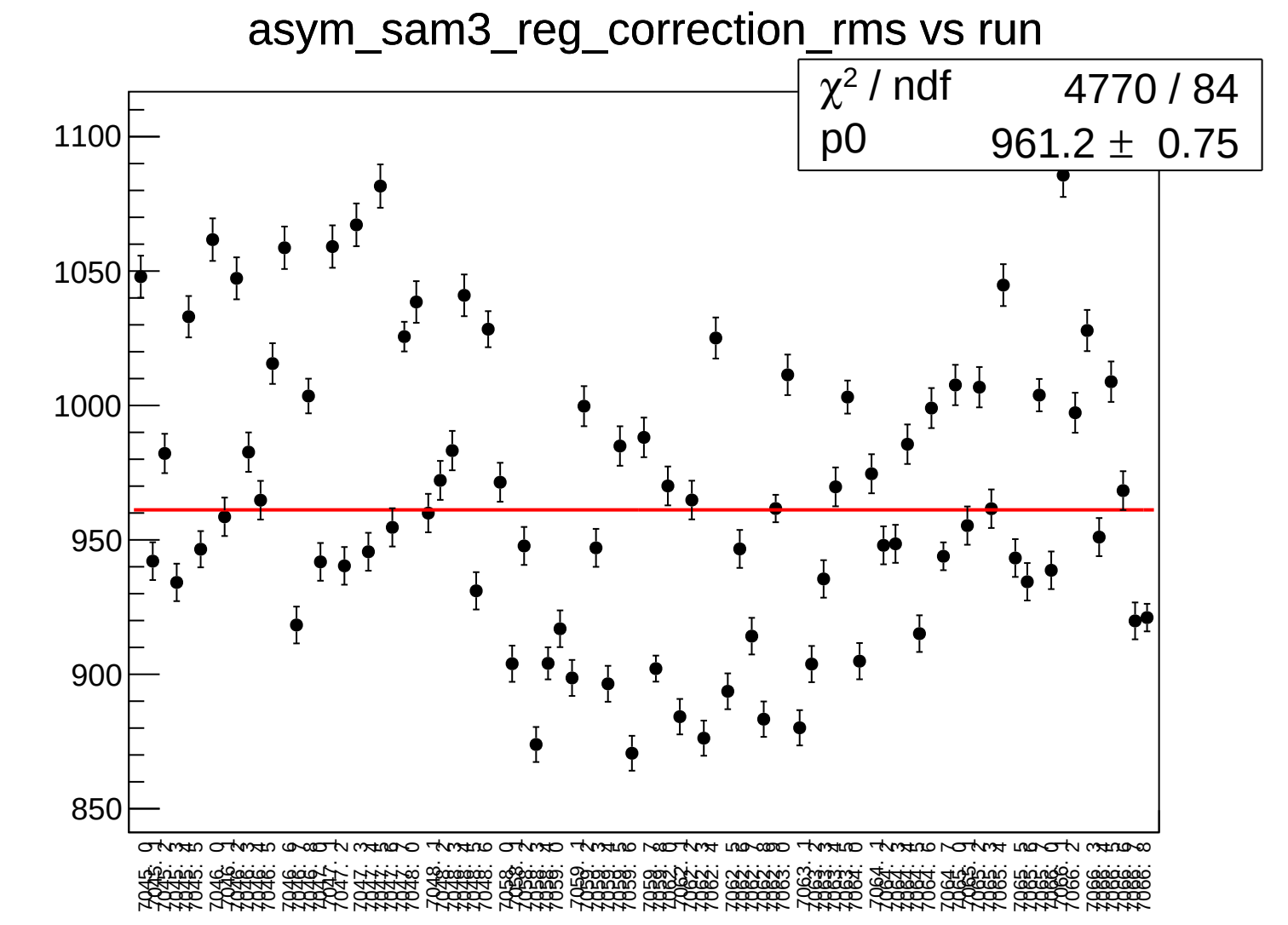

reg_asym_sam3_mean vs run
χ² / ndf 109.4 / 84
p0 −170.7 ± 103.8
pull
Entries 85
Mean 261.9
Std Dev 0

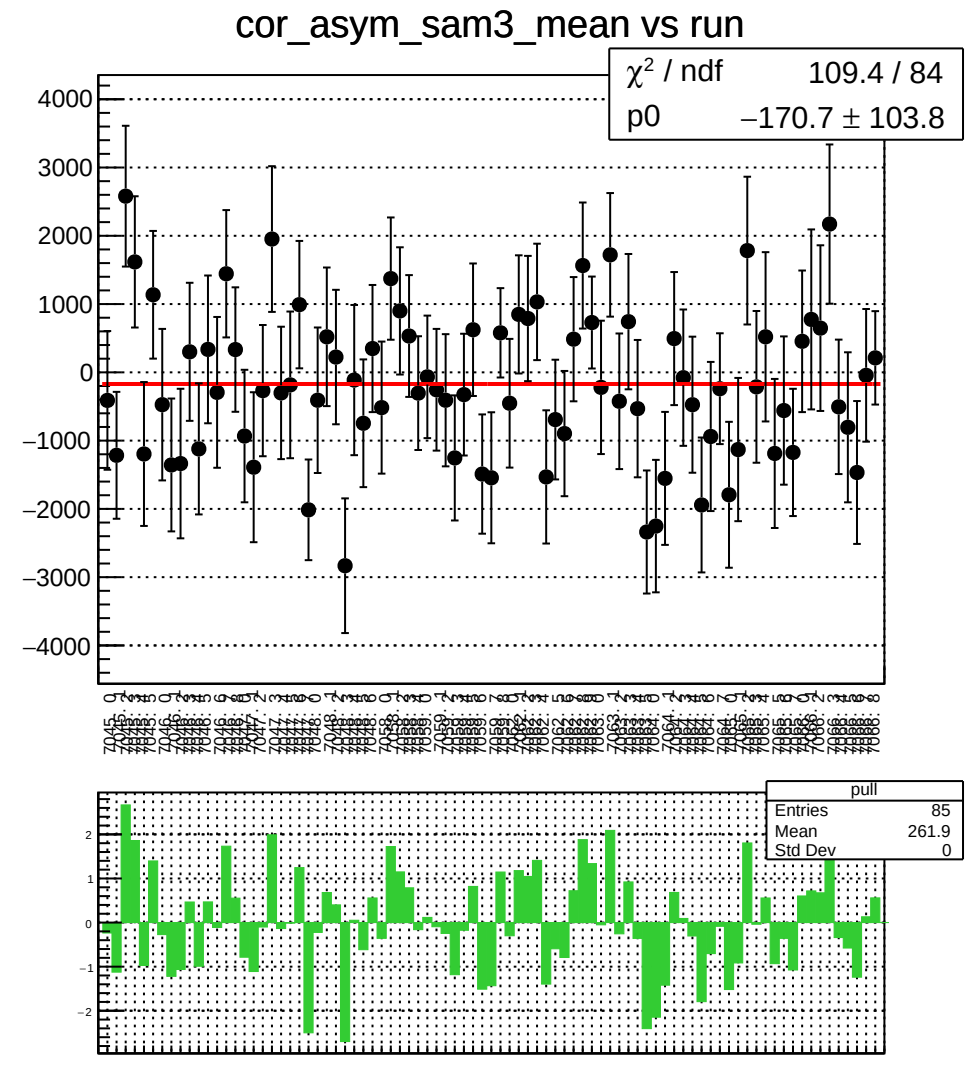

pull1D
Entries 85
Mean −0.00809
Std Dev 1.134

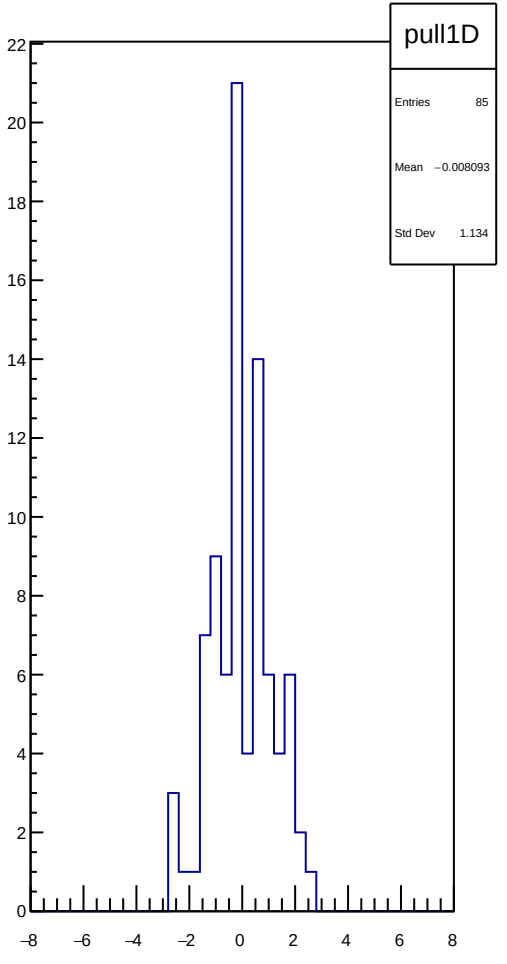

reg_asym_sam3_rms vs run
χ² / ndf 1.142e+04 / 84
p0 93.86 ± 0.07339
130
120
110
100
90
80

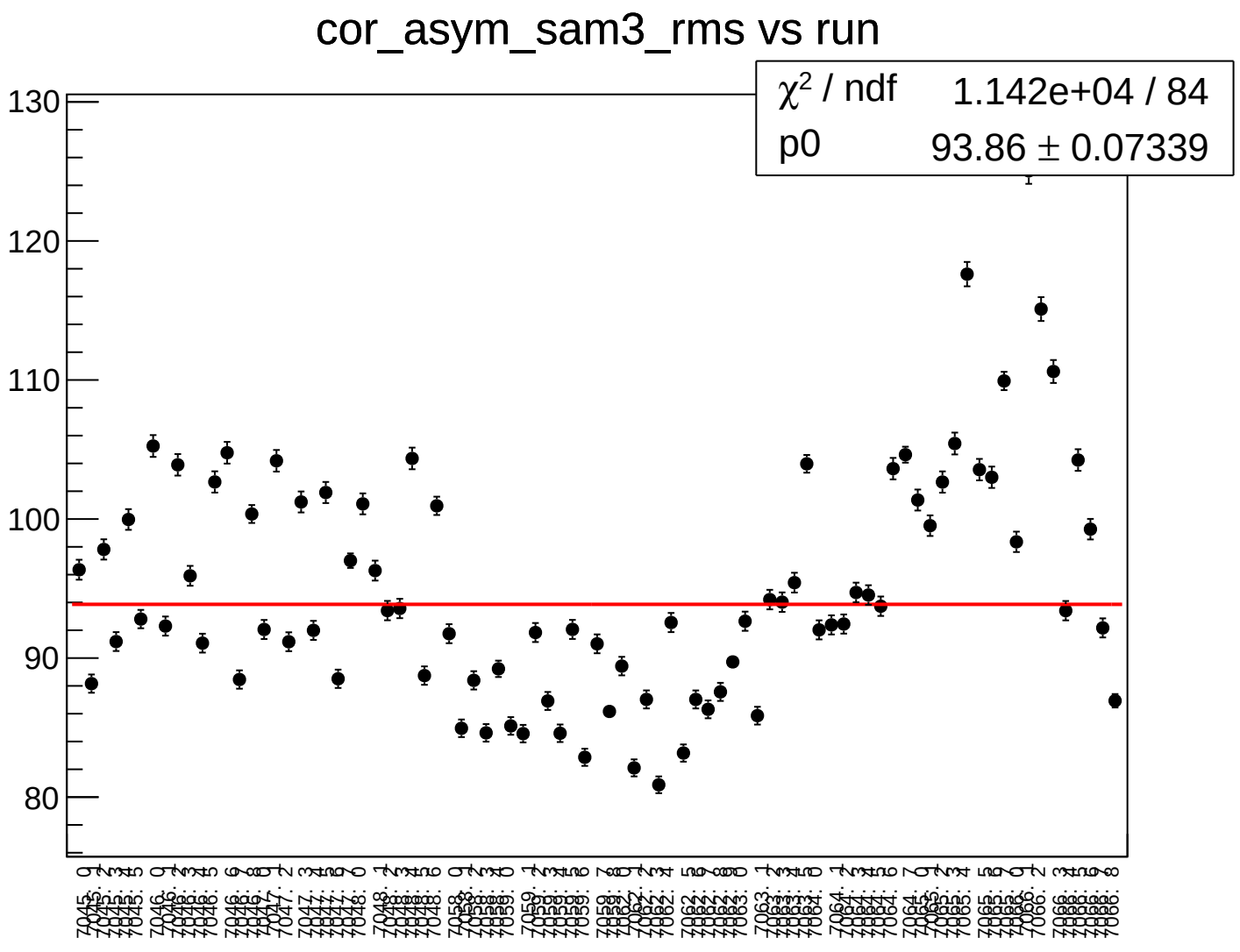

asym_sam3_reg_correction_mean vs run
χ² / ndf 61.98 / 84
p0 −1764 ± 1061
pull
Entries 85
Mean −186.9
Std Dev 0

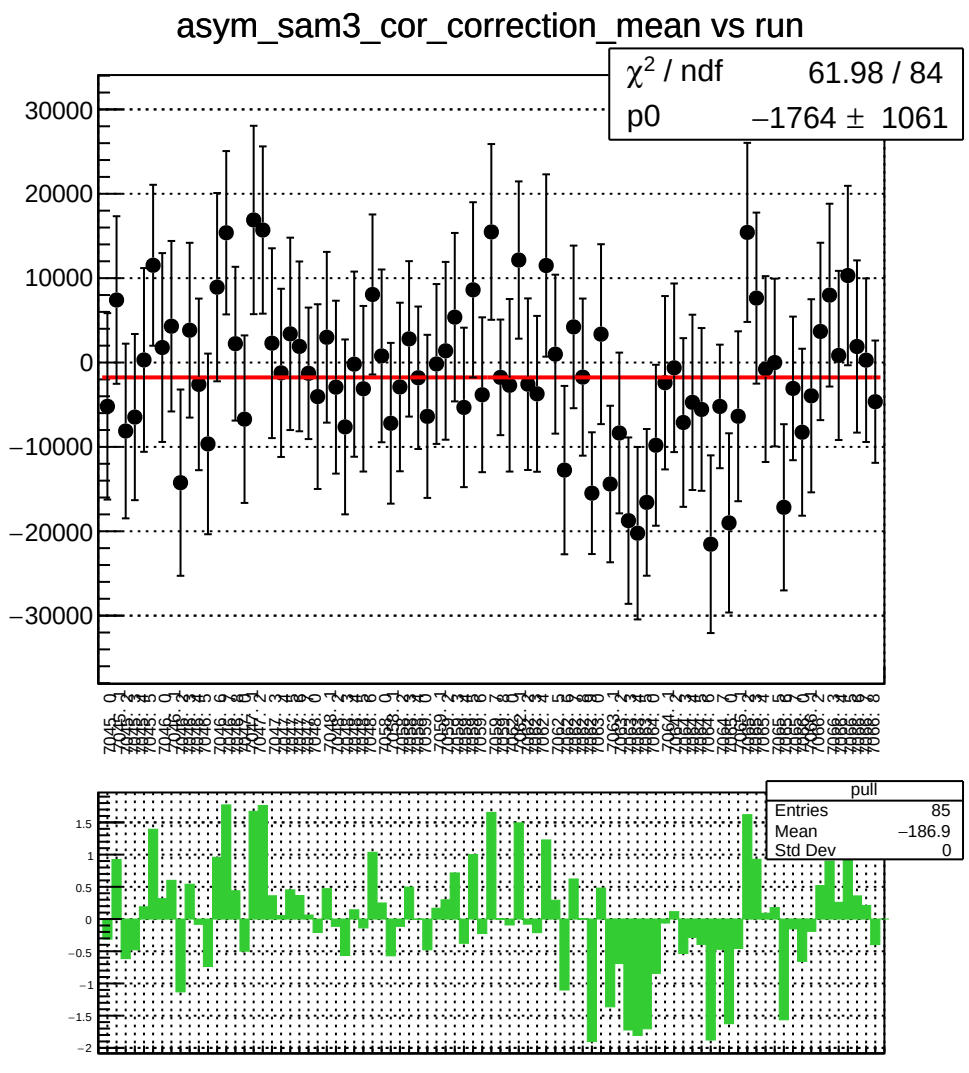

pull1D
Entries 85
Mean 0.02011
Std Dev 0.8537

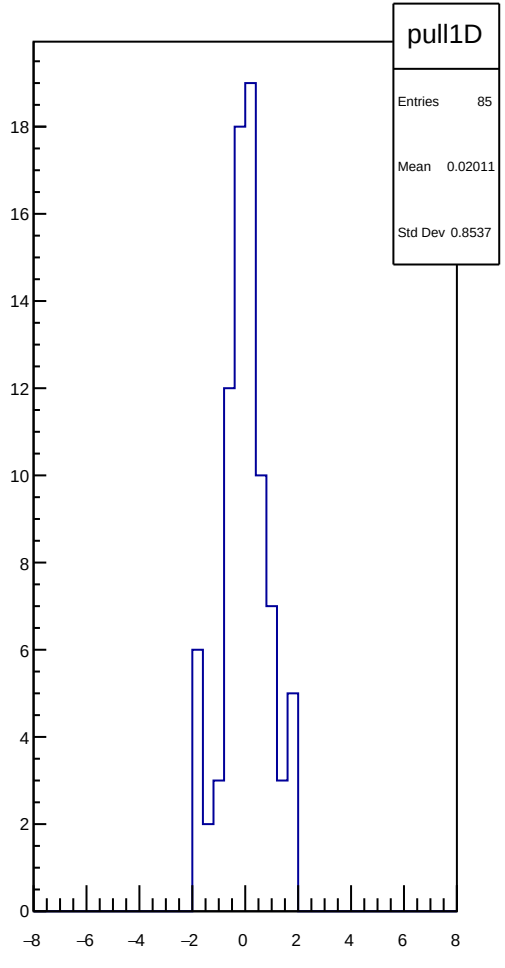

asym_sam3_reg_correction_rms vs run
χ² / ndf 4770 / 84
p0 961.2 ± 0.75
1100
1050
1000
950
900
850

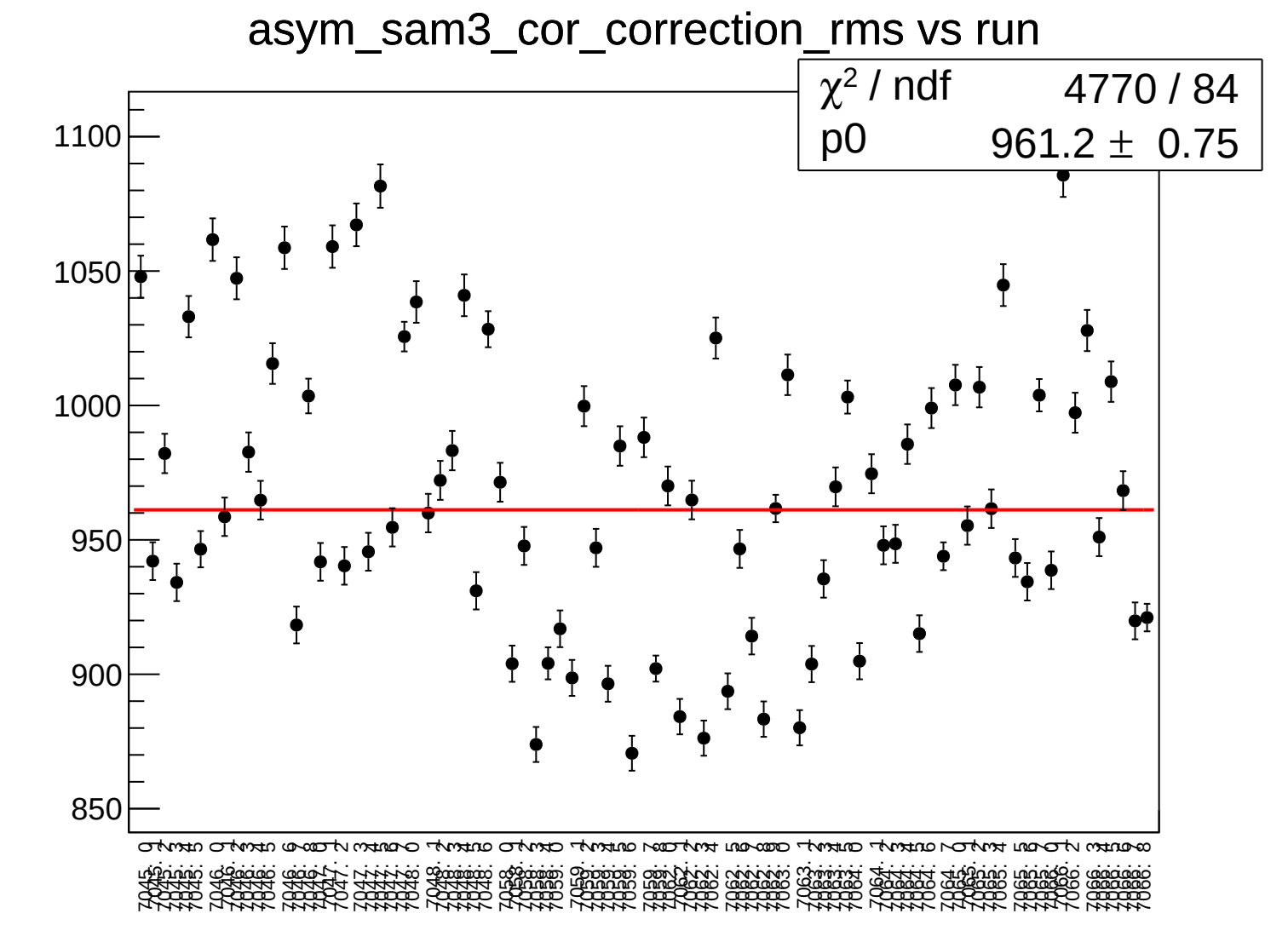

cor_asym_sam3_mean vs run
χ² / ndf 109.4 / 84
p0 −170.7 ± 103.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean 261.9
Std Dev 0
2
1
0
−1
−2

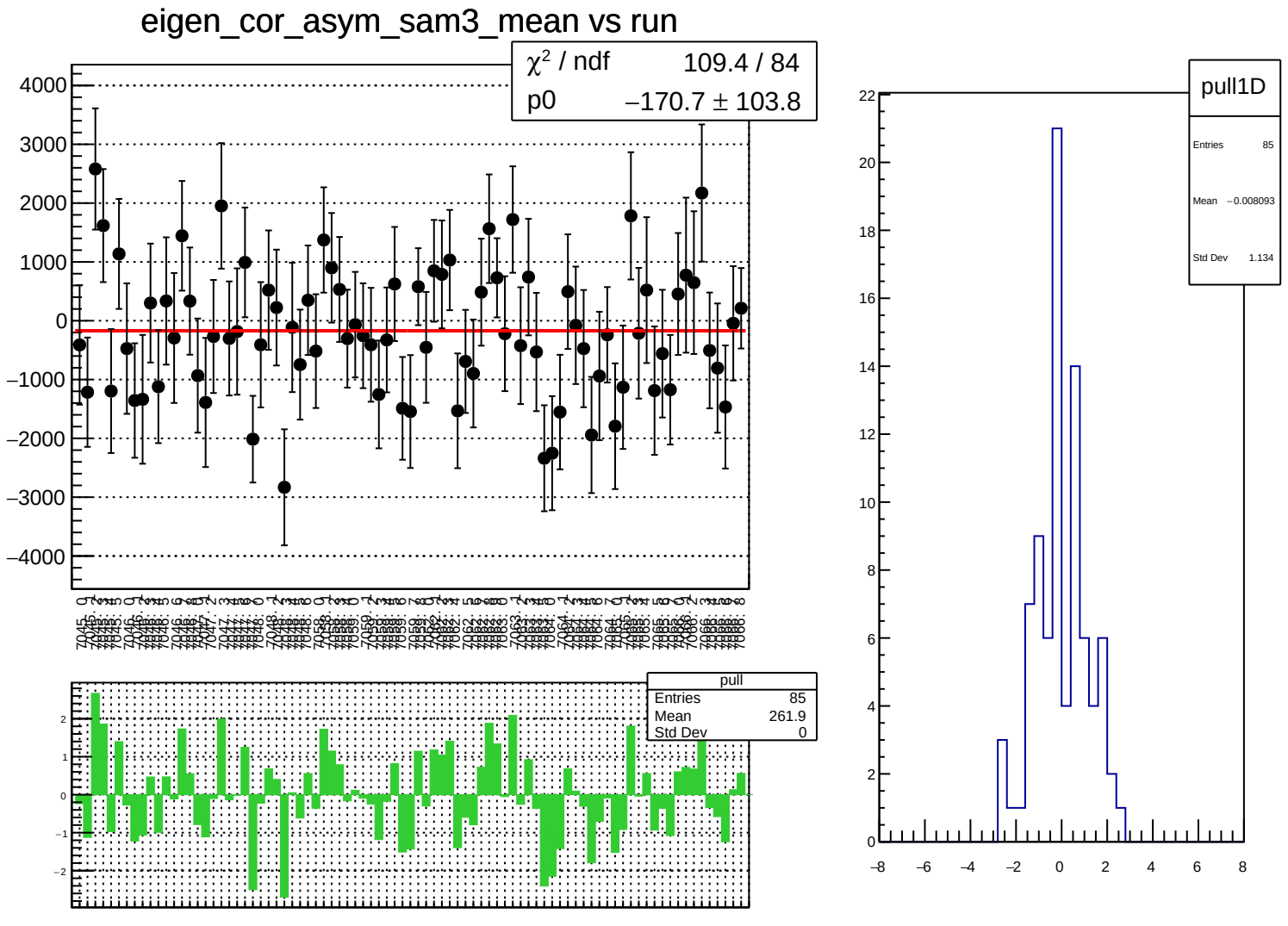

pull1D
Entries 85
Mean −0.008093
Std Dev 1.134
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

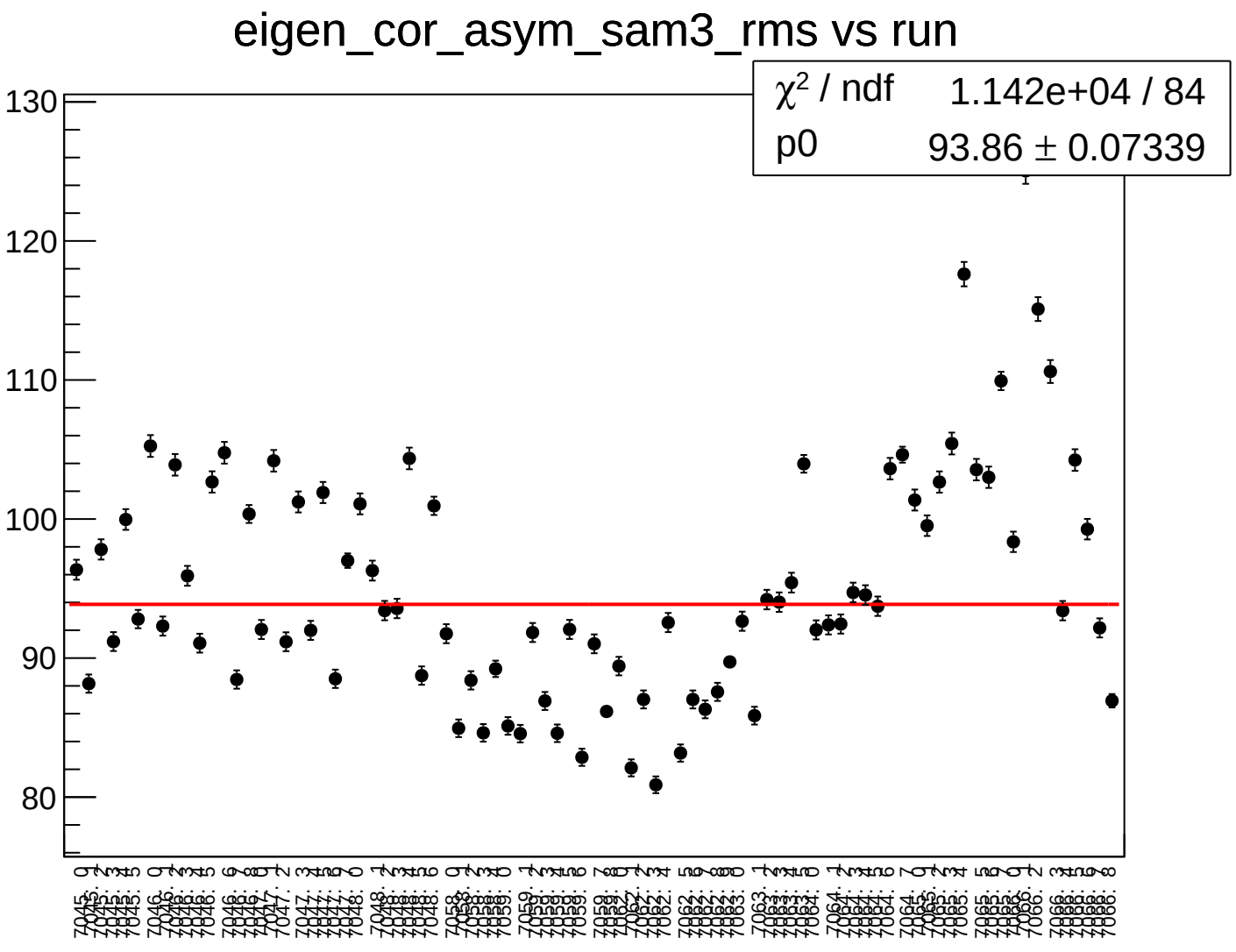

cor_asym_sam3_rms vs run
χ² / ndf 1.142e+04 / 84
p0 93.86 ± 0.07339
130
120
110
100
90
80

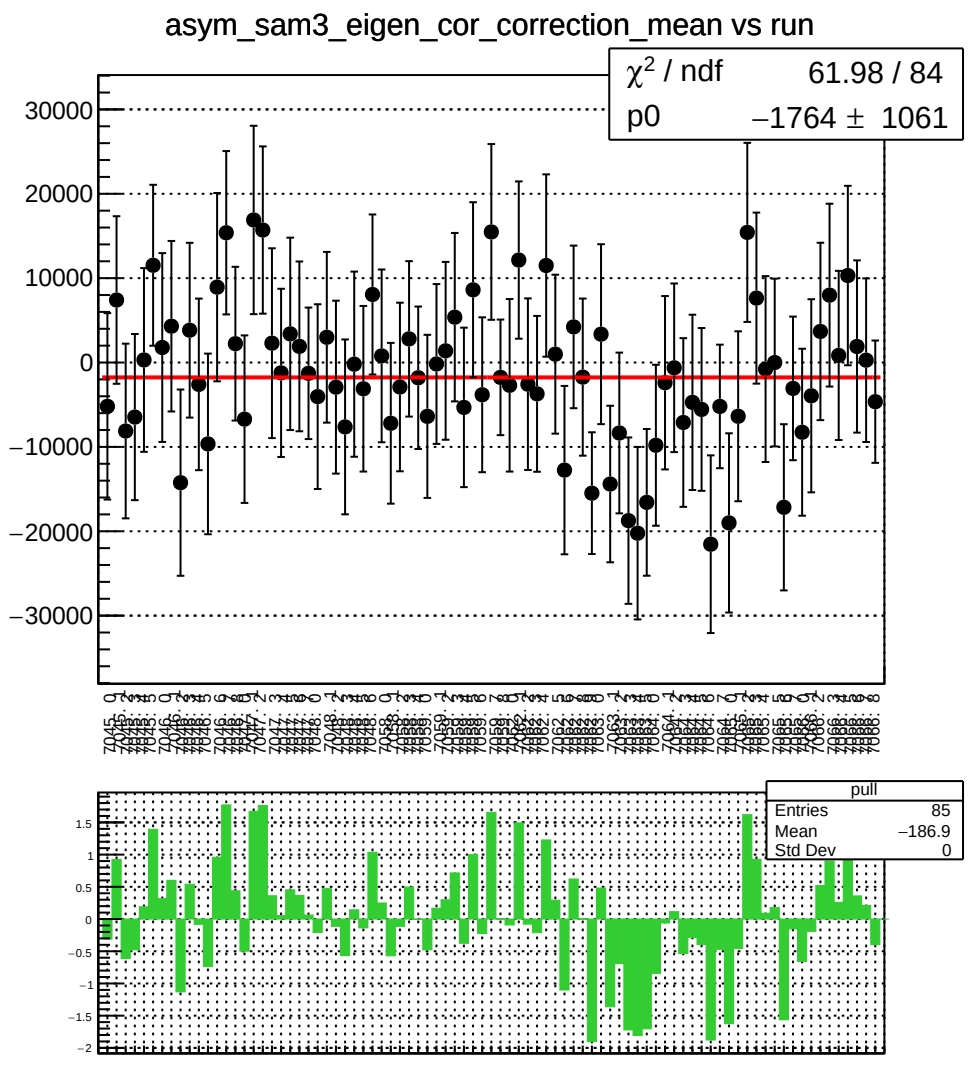

asym_sam3_cor_correction_mean vs run
χ² / ndf 61.98 / 84
p0 −1764 ± 1061
pull
Entries 85
Mean −186.9
Std Dev 0

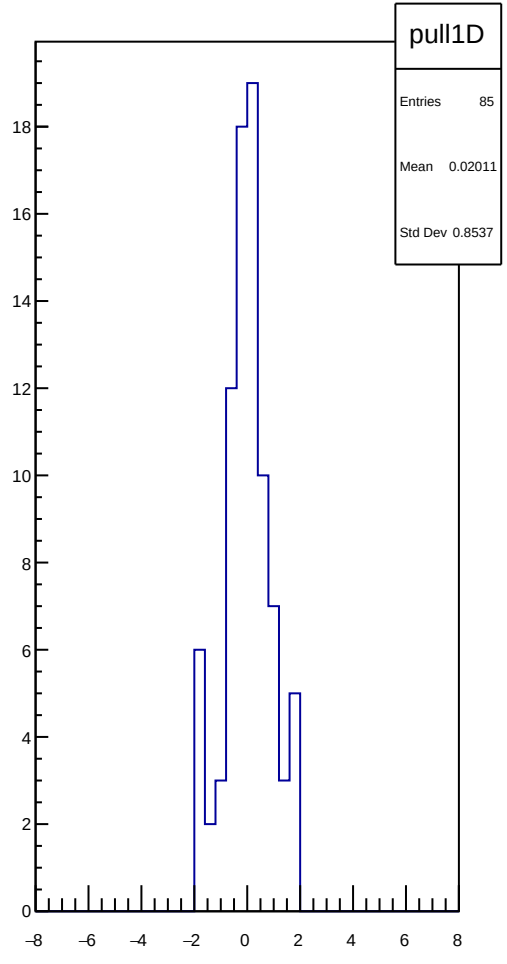

pull1D
Entries 85
Mean 0.02011
Std Dev 0.8537

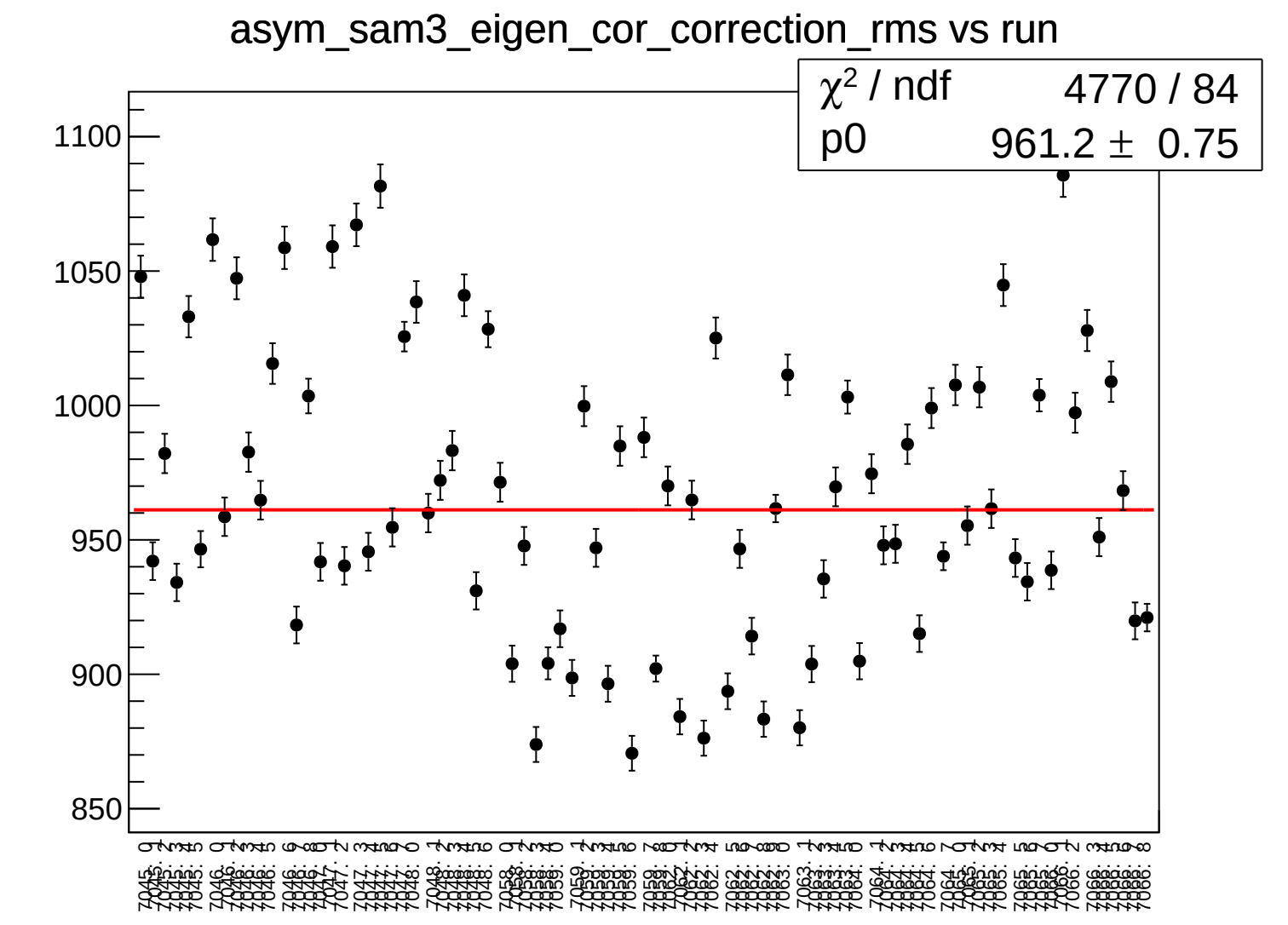

asym_sam3_cor_correction_rms vs run
χ² / ndf 4770 / 84
p0 961.2 ± 0.75
1100
1050
1000
950
900
850

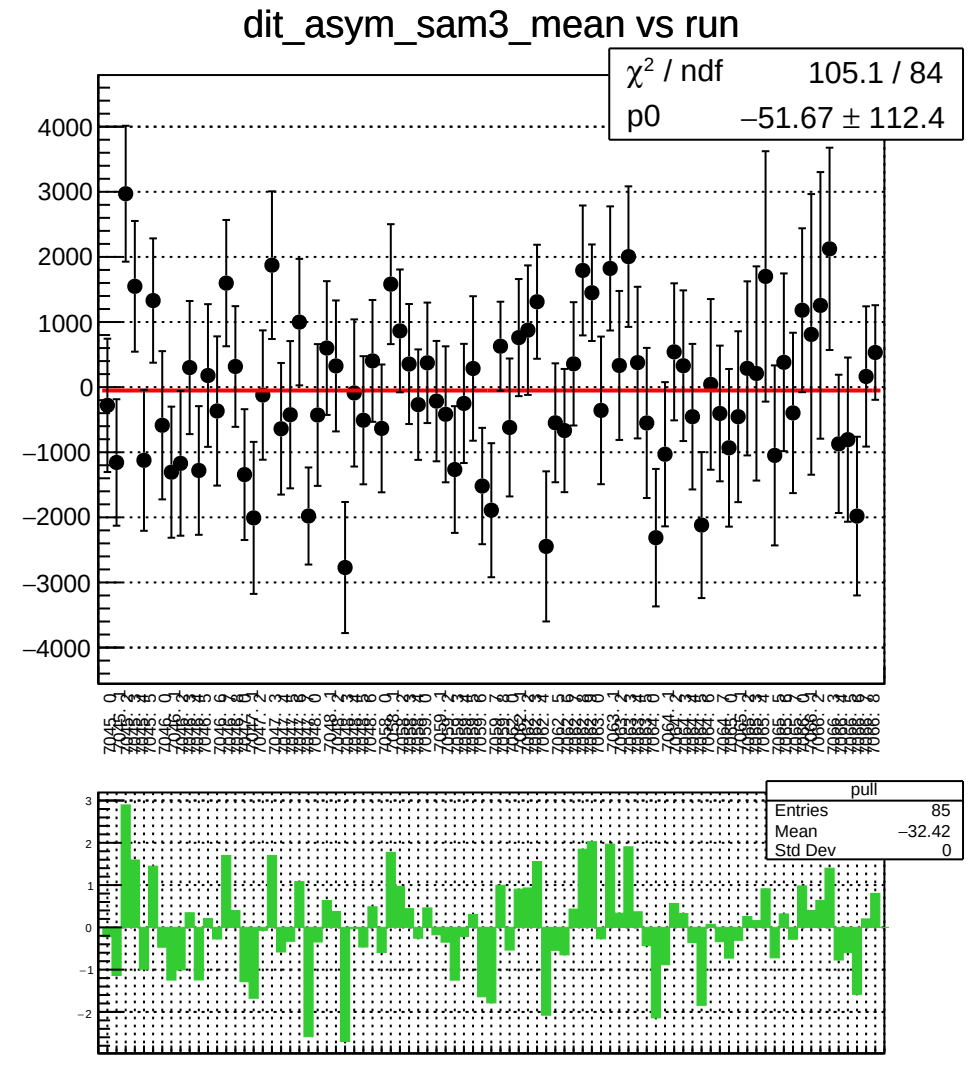

eigen_cor_asym_sam3_mean vs run
χ² / ndf 109.4 / 84
p0 −170.7 ± 103.8
pull
Entries 85
Mean 261.9
Std Dev 0
pull1D
Entries 85
Mean −0.008093
Std Dev 1.134

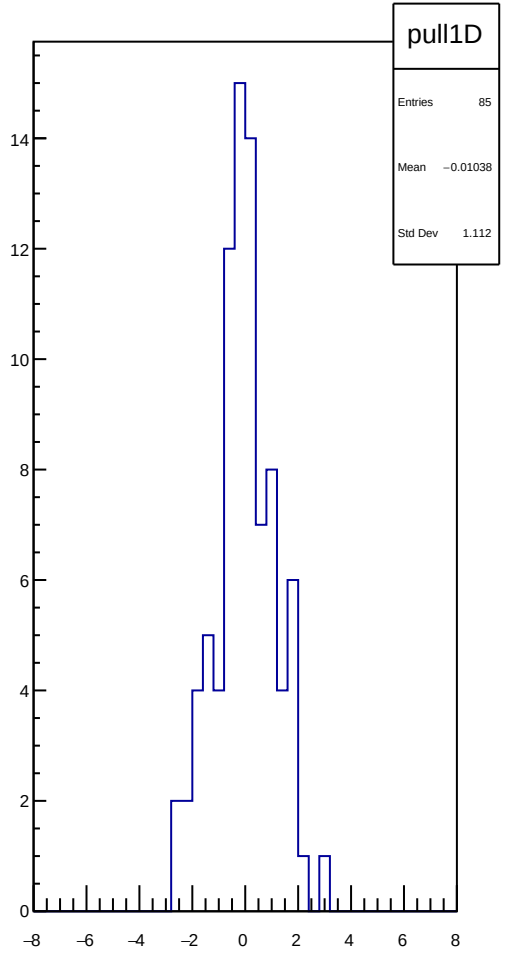

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.142e+04 / 84
p0 93.86 ± 0.07339
130
120
110
100
90
80

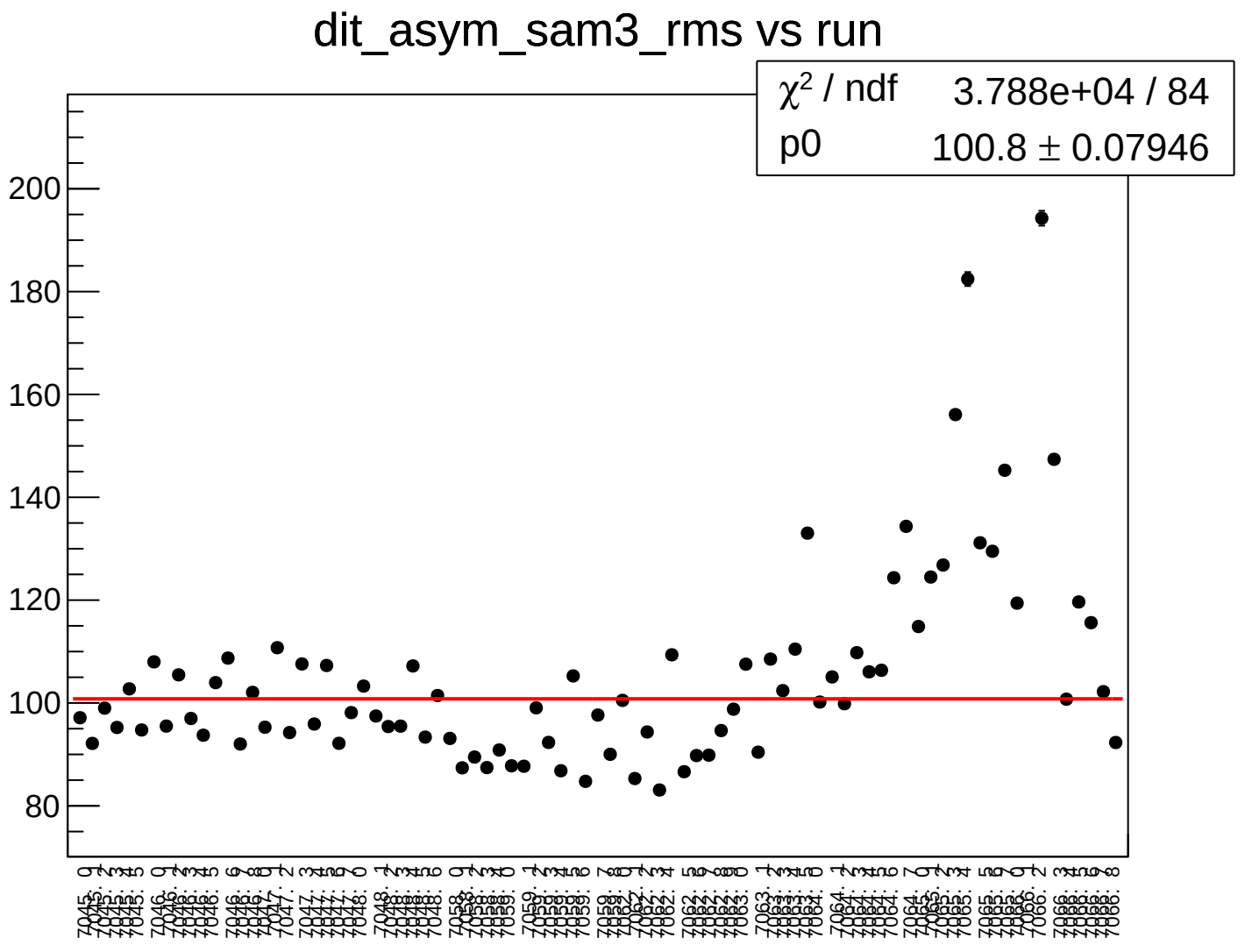

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 61.98 / 84
p0 −1764 ± 1061
pull
Entries 85
Mean −186.9
Std Dev 0

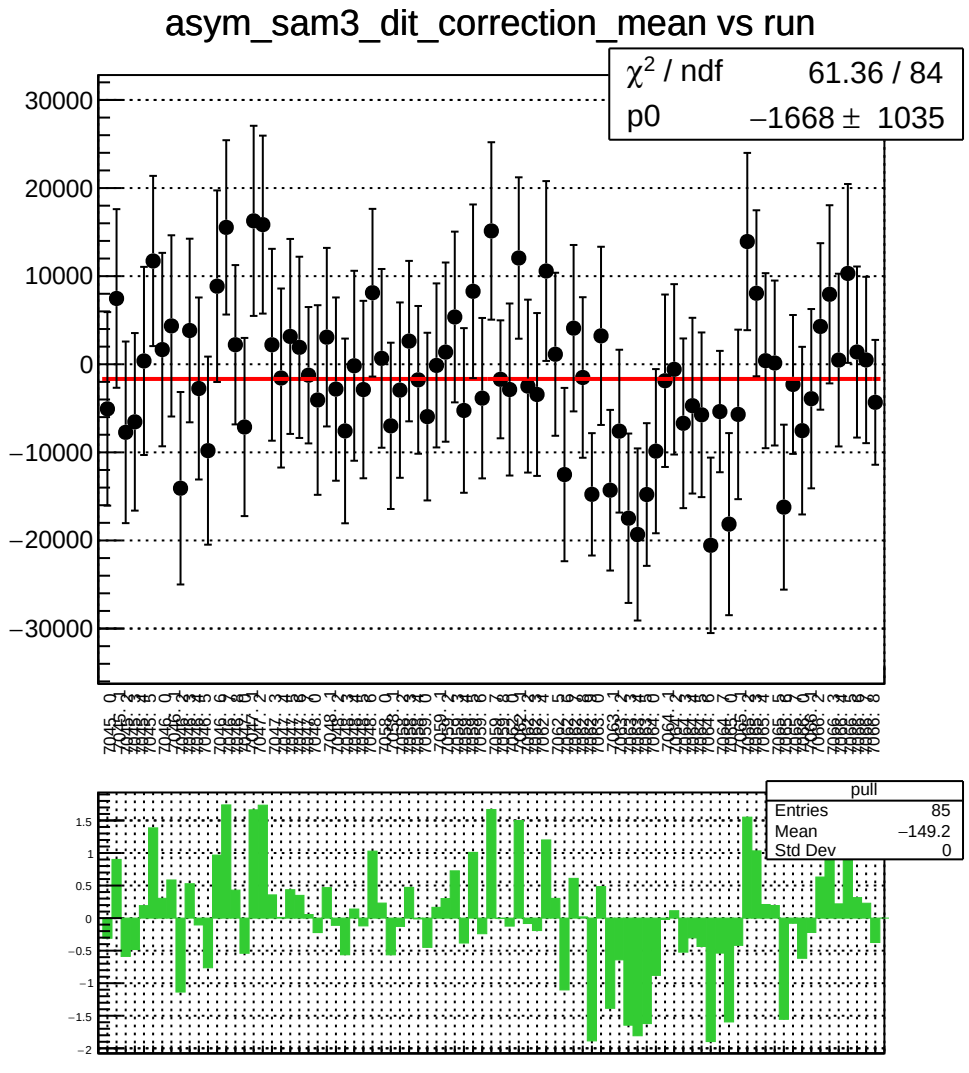

pull1D
Entries 85
Mean 0.02011
Std Dev 0.8537

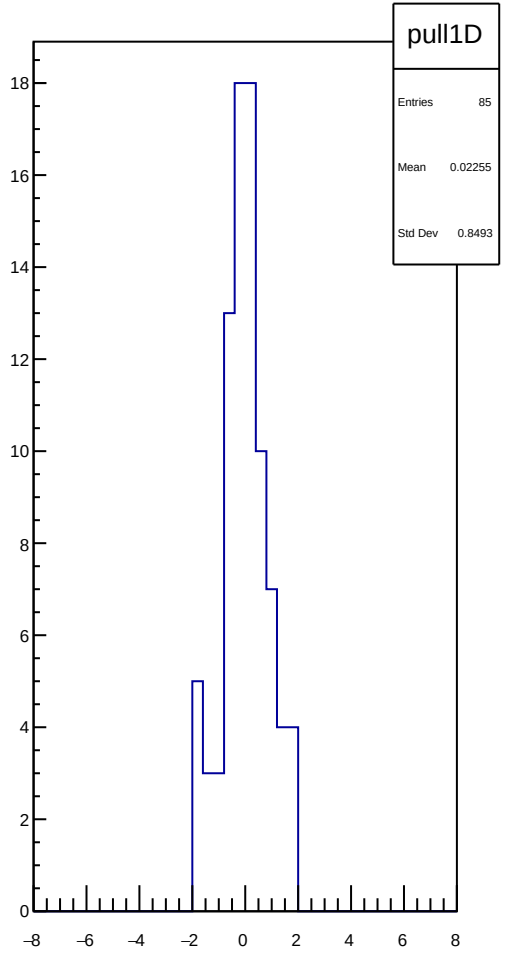

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 4770 / 84
p0 961.2 ± 0.75
1100
1050
1000
950
900
850

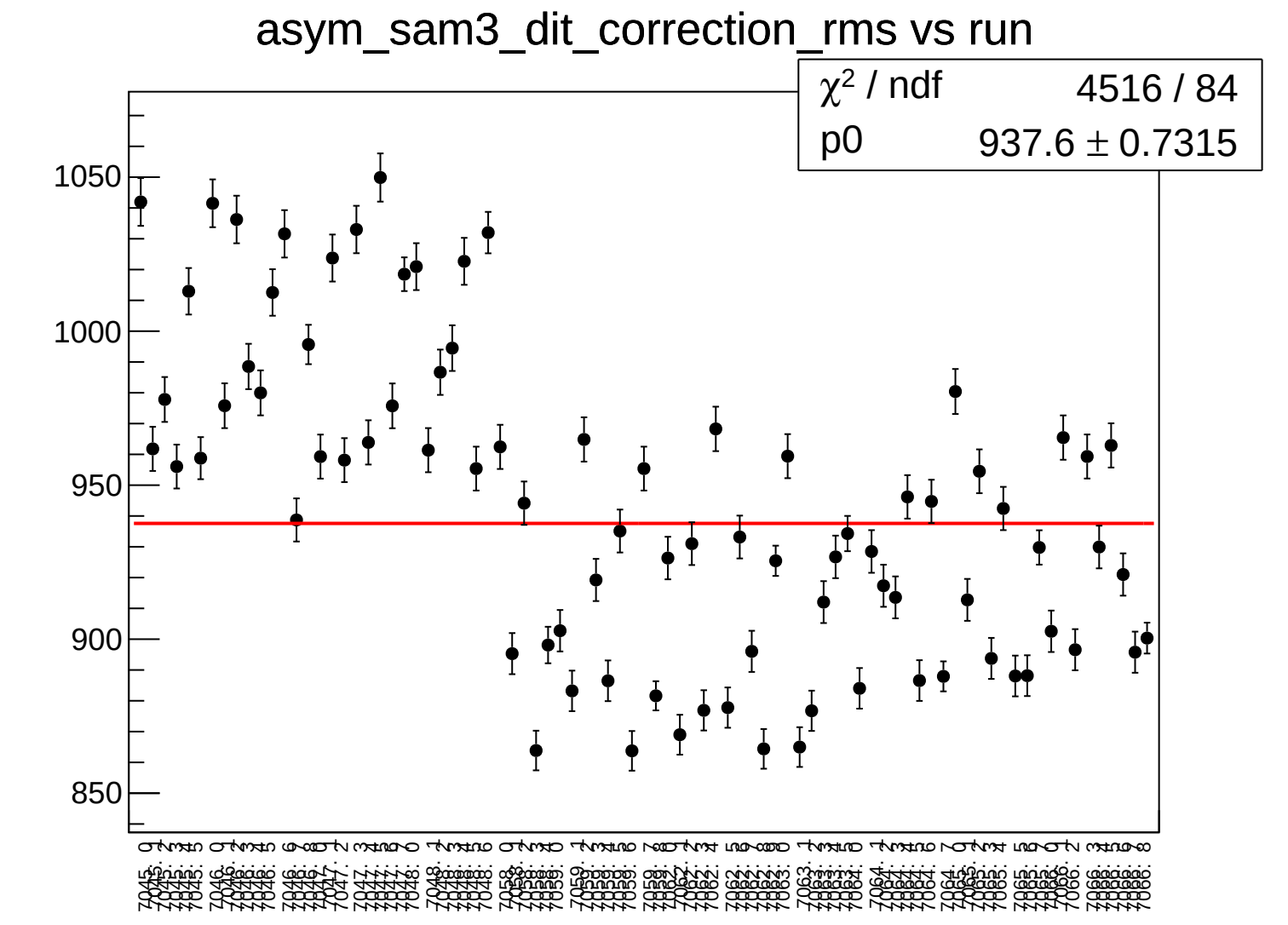

dit_asym_sam3_mean vs run
χ² / ndf 105.1 / 84
p0 −51.67 ± 112.4
pull
Entries 85
Mean −32.42
Std Dev 0

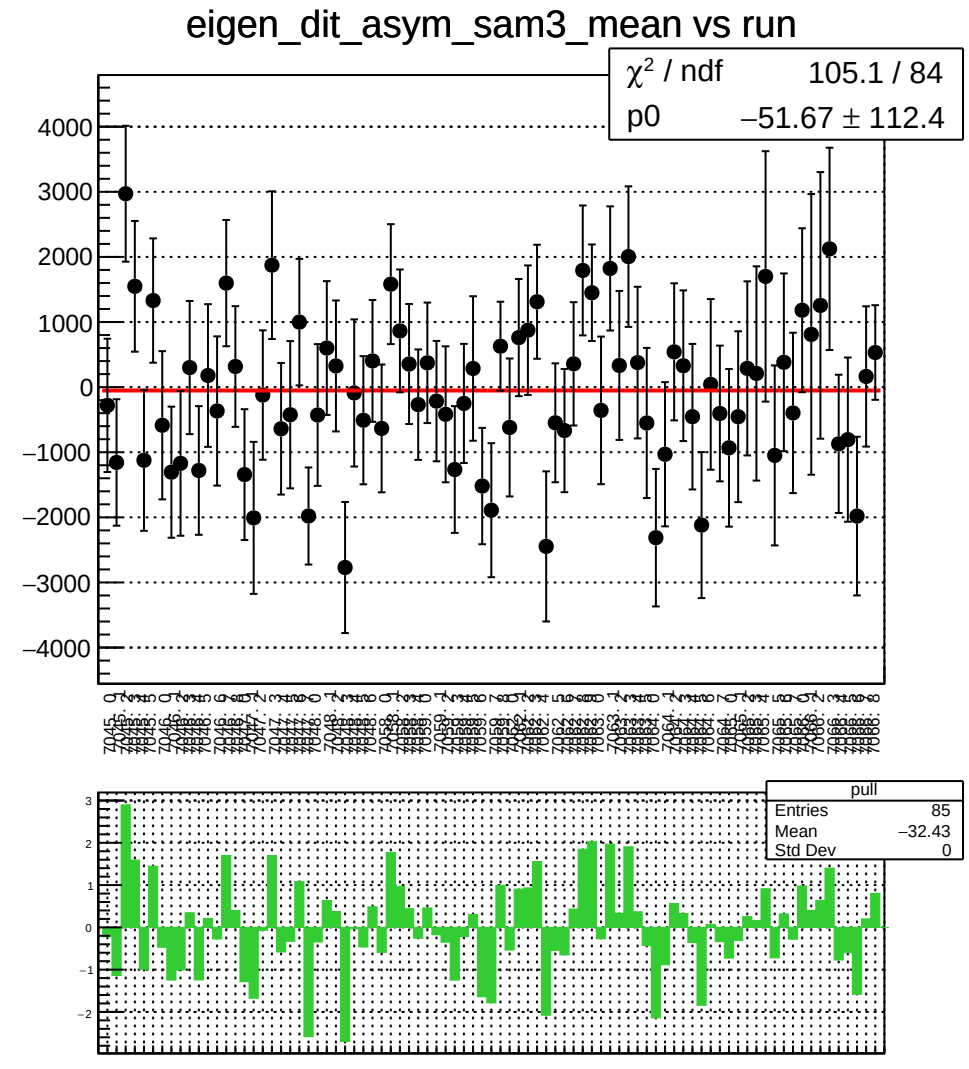

pull1D
Entries 85
Mean −0.01038
Std Dev 1.112

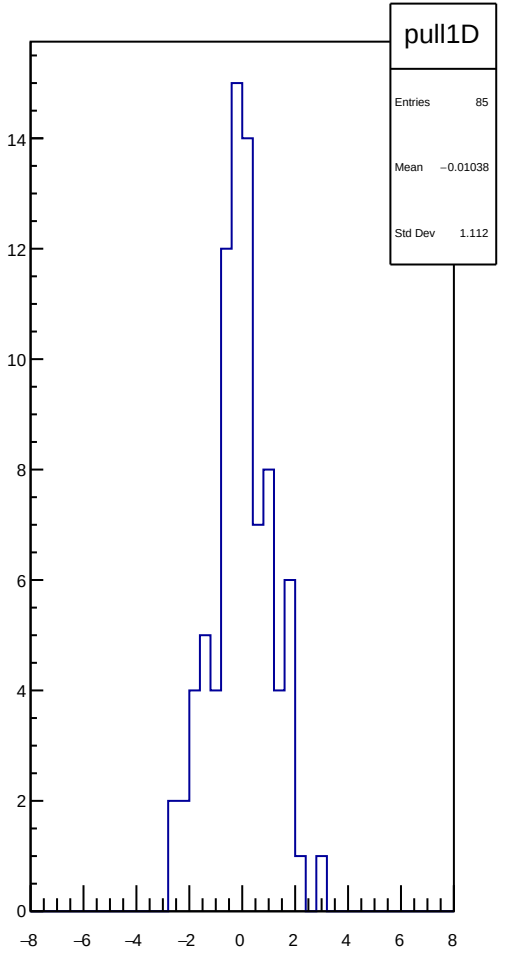

dit_asym_sam3_rms vs run
χ² / ndf 3.788e+04 / 84
p0 100.8 ± 0.07946
200
180
160
140
120
100
80

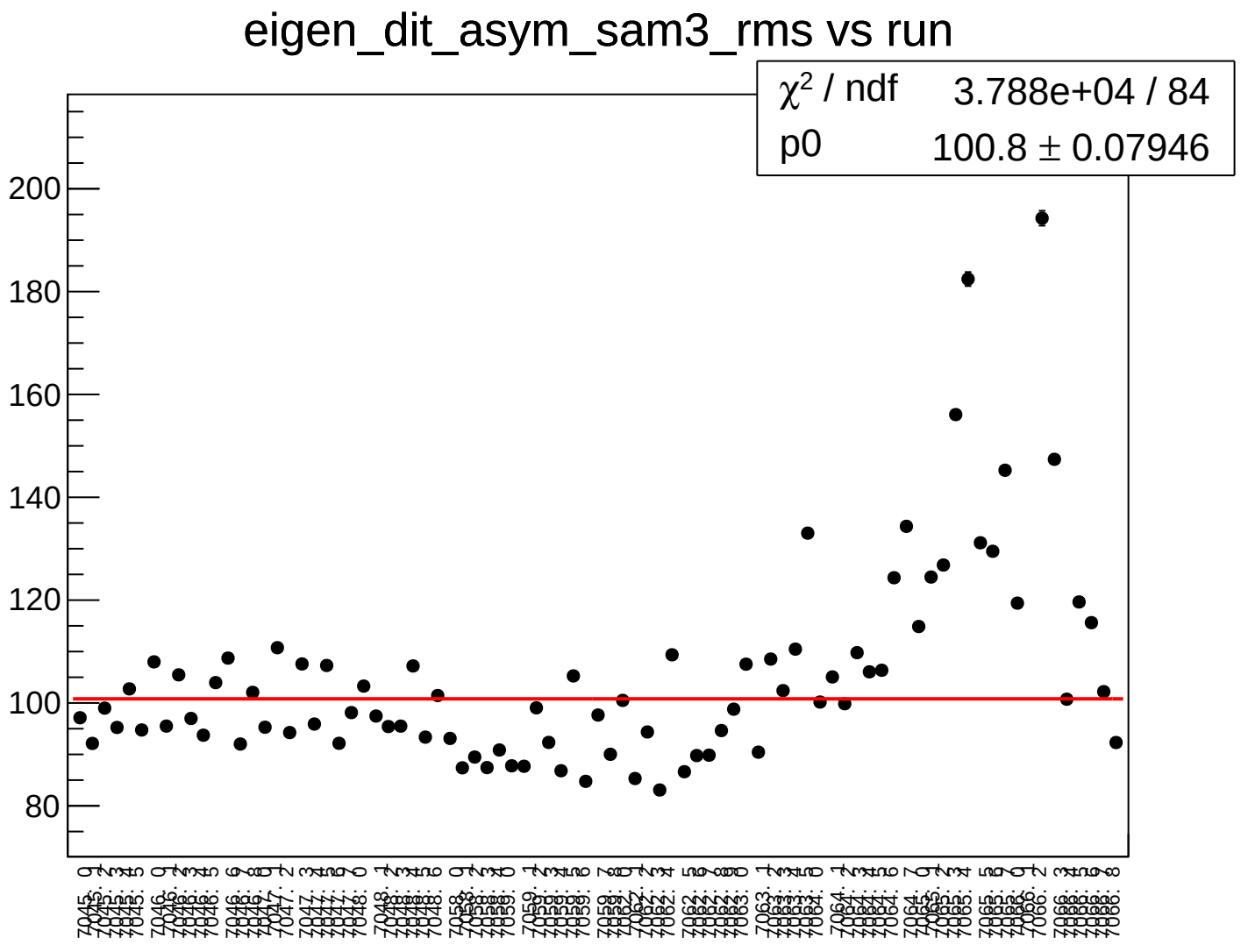

asym_sam3_dit_correction_mean vs run
χ² / ndf 61.36 / 84
p0 −1668 ± 1035
pull
Entries 85
Mean −149.2
Std Dev 0

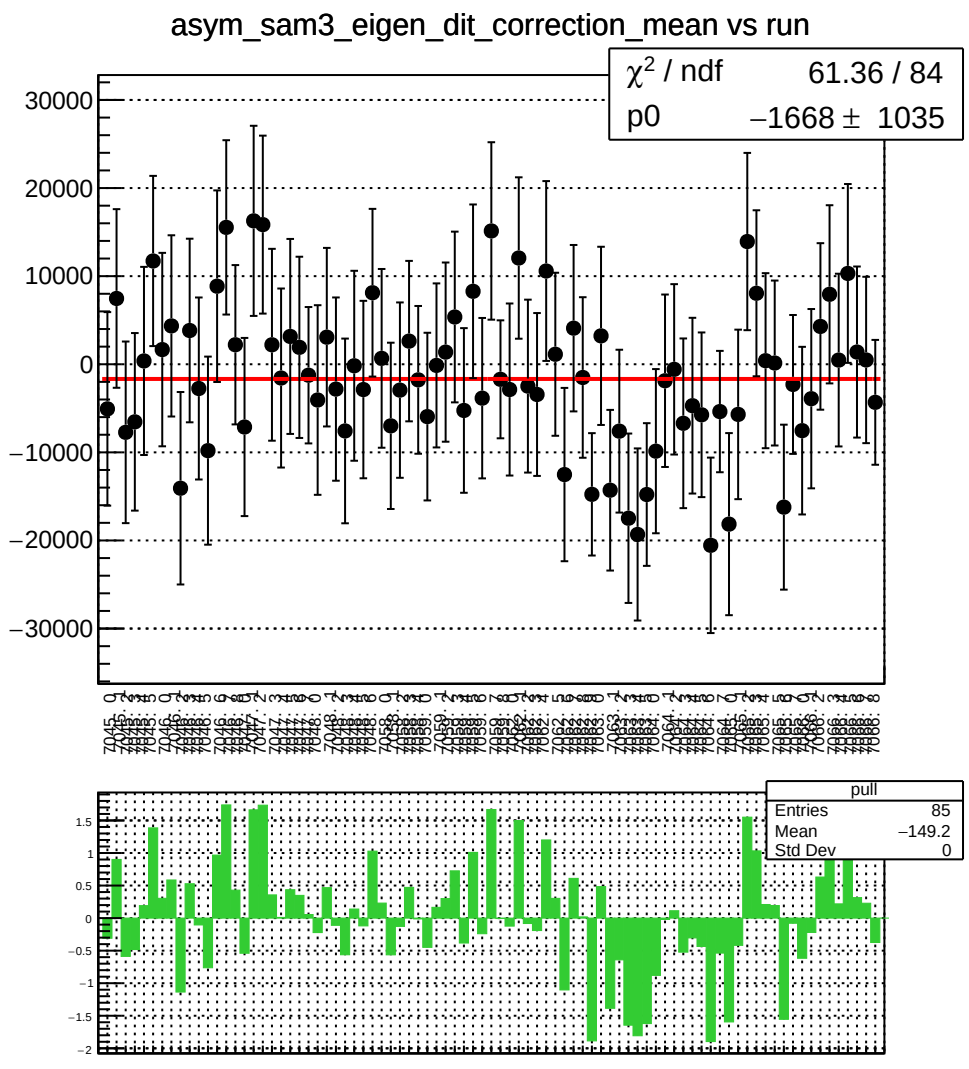

pull1D
Entries 85
Mean 0.02255
Std Dev 0.8493

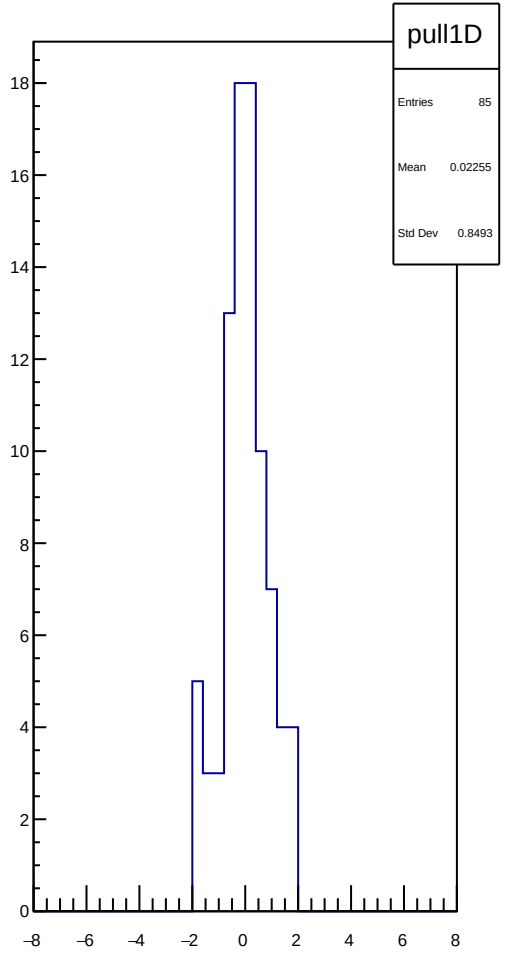

asym_sam3_dit_correction_rms vs run
χ² / ndf 4516 / 84
p0 937.6 ± 0.7315
1050
1000
950
900
850

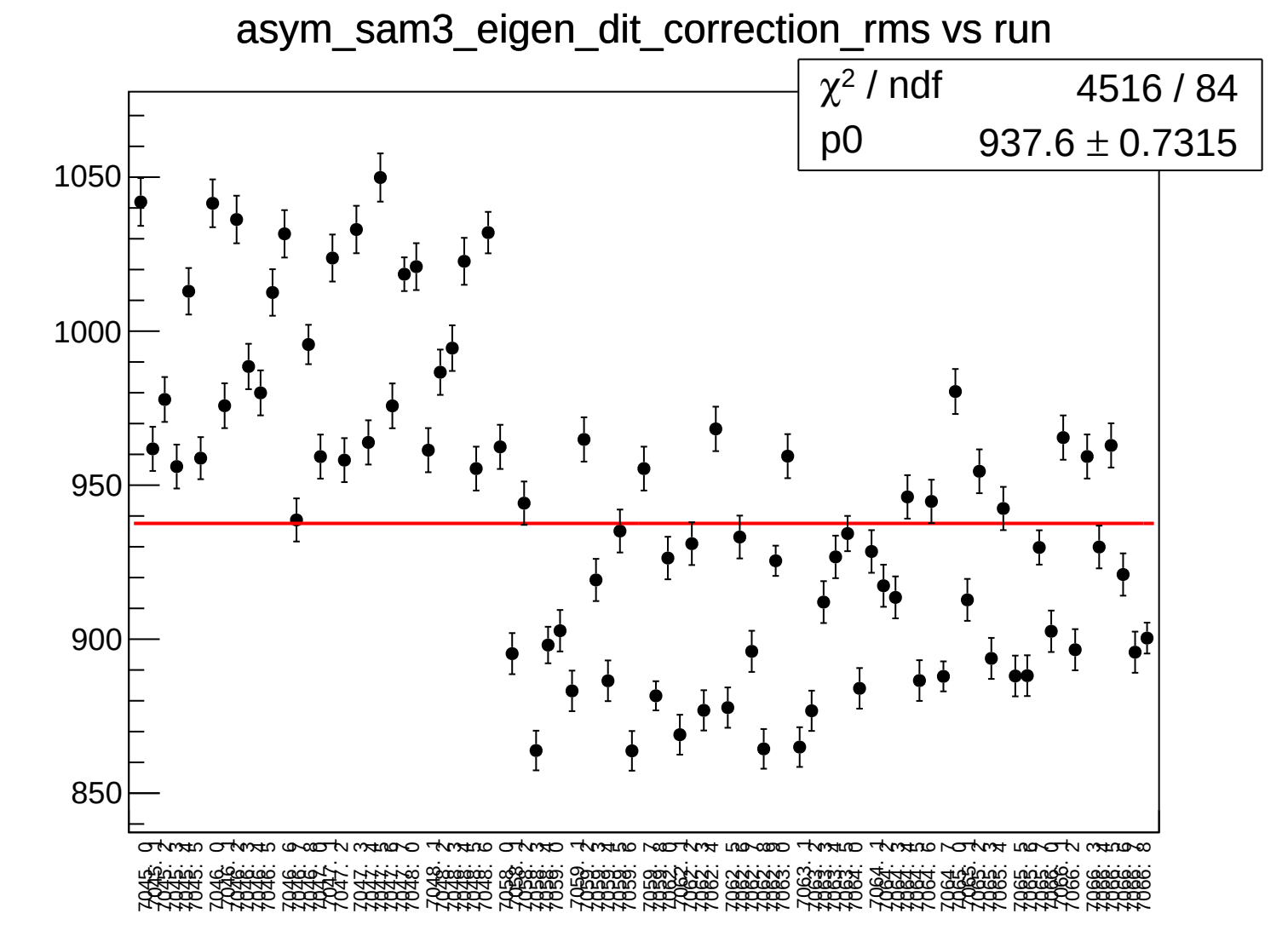

eigen_dit_asym_sam3_mean vs run
χ² / ndf 105.1 / 84
p0 −51.67 ± 112.4
pull
Entries 85
Mean −32.43
Std Dev 0

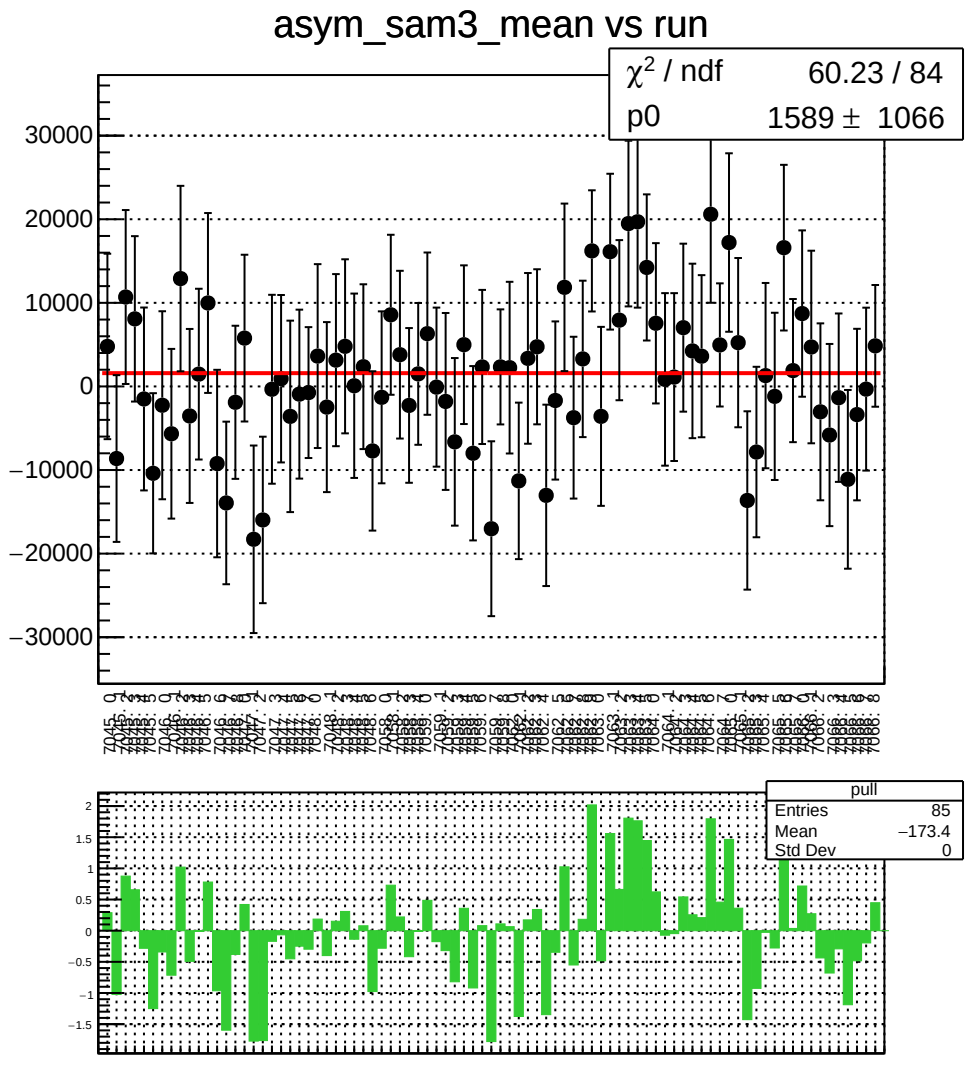

pull1D
Entries 85
Mean −0.01038
Std Dev 1.112

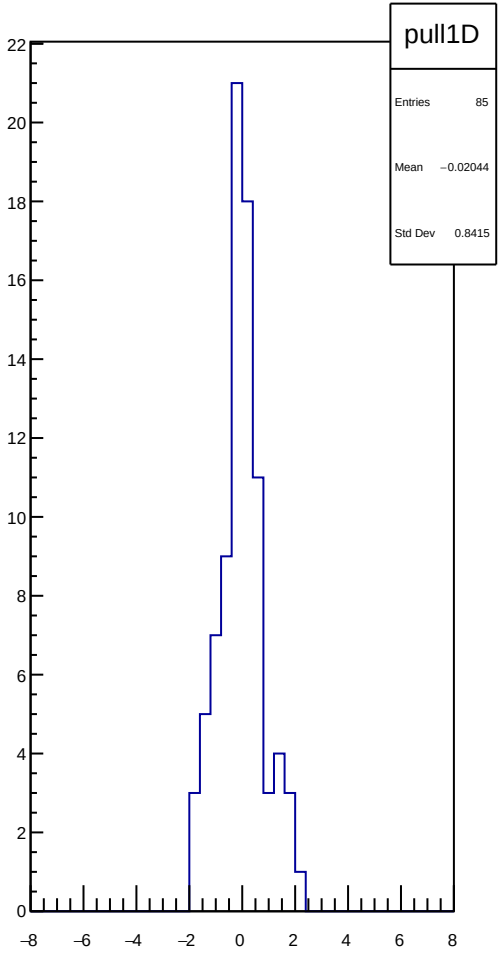

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.788e+04 / 84
p0 100.8 ± 0.07946
200
180
160
140
120
100
80

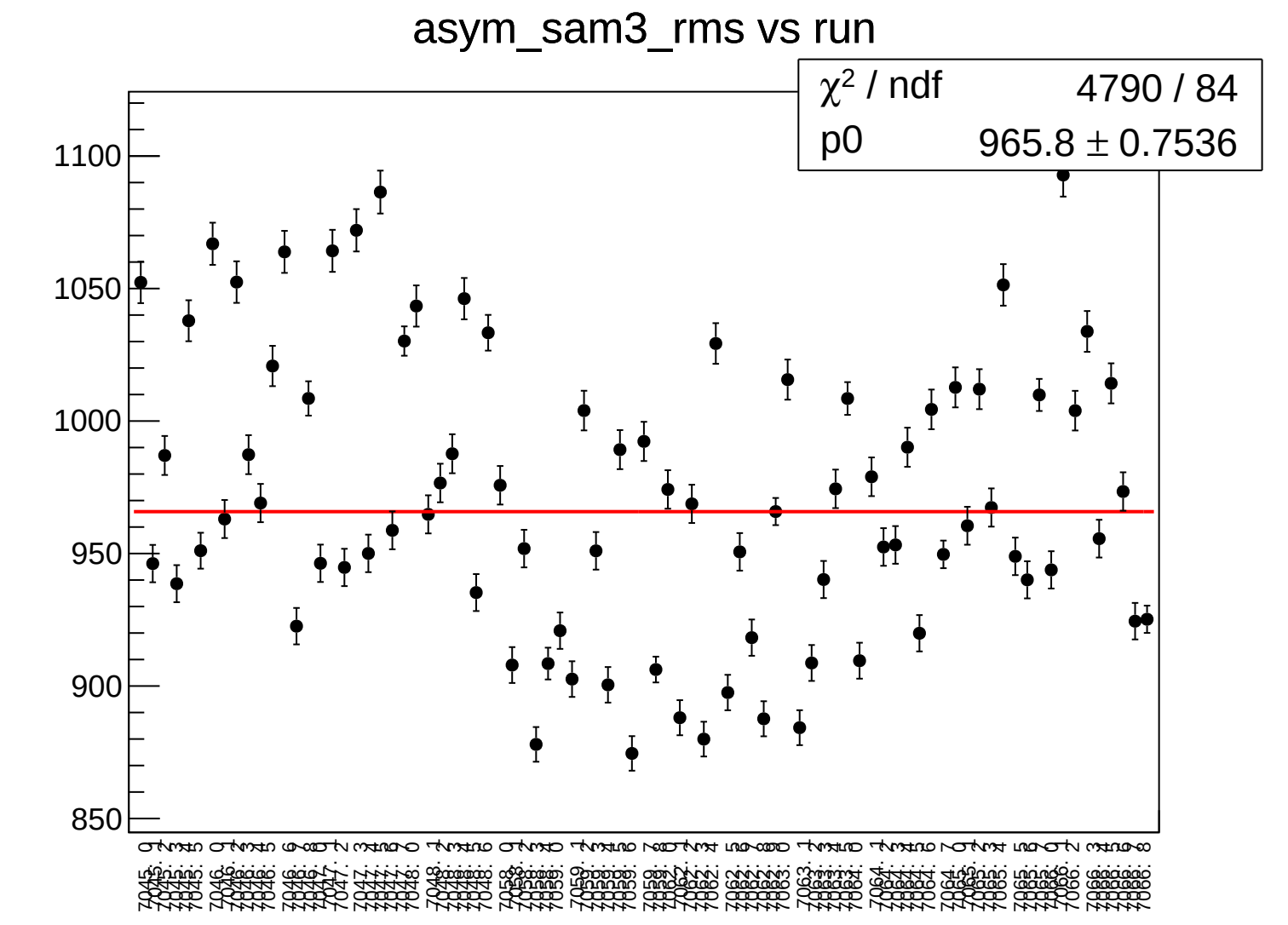

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 61.36 / 84
p0 −1668 ± 1035
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −149.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

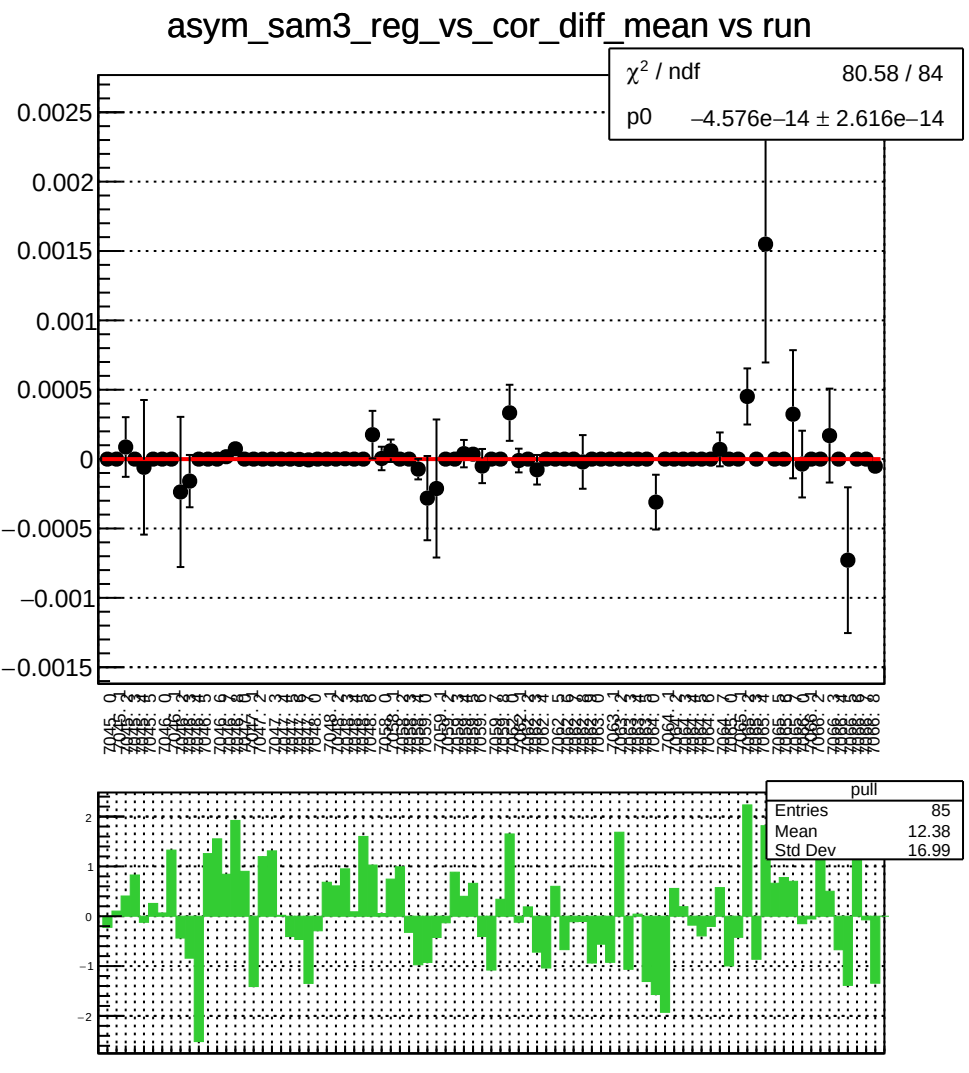

pull1D
Entries 85
Mean 0.02255
Std Dev 0.8493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

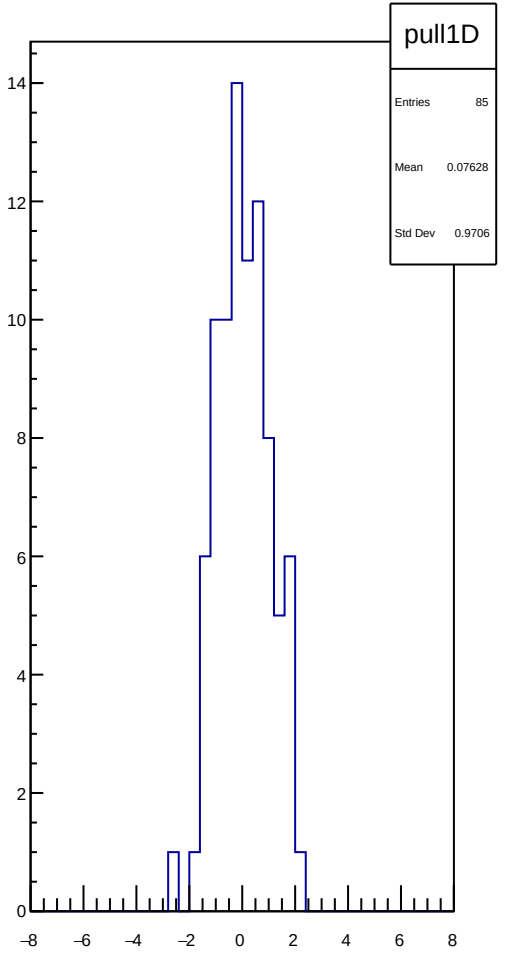

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4516 / 84
p0 937.6 ± 0.7315
1050
1000
950
900
850

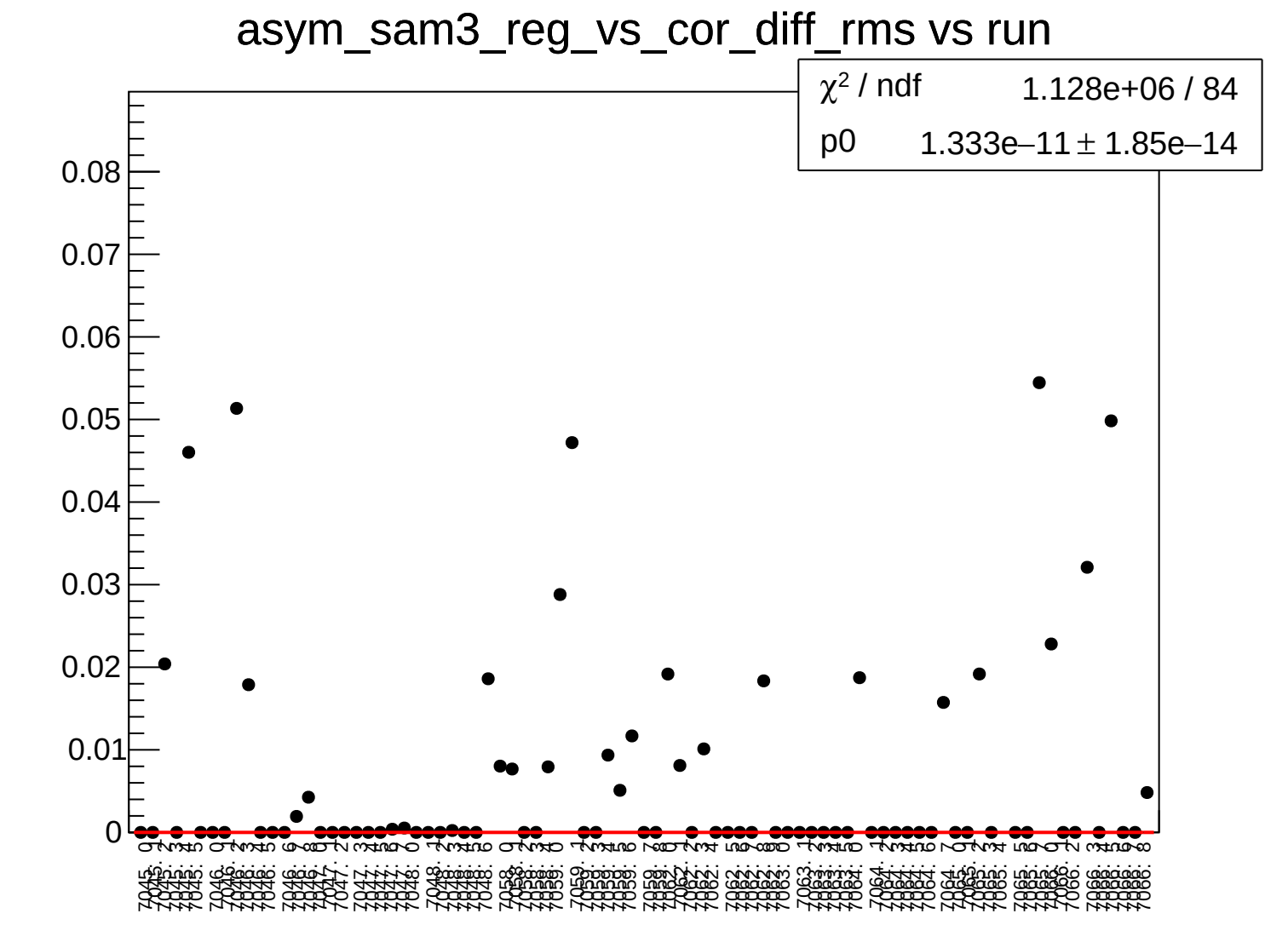

asym_sam3_mean vs run
χ² / ndf 60.23 / 84
p0 1589 ± 1066
pull
Entries 85
Mean −173.4
Std Dev 0

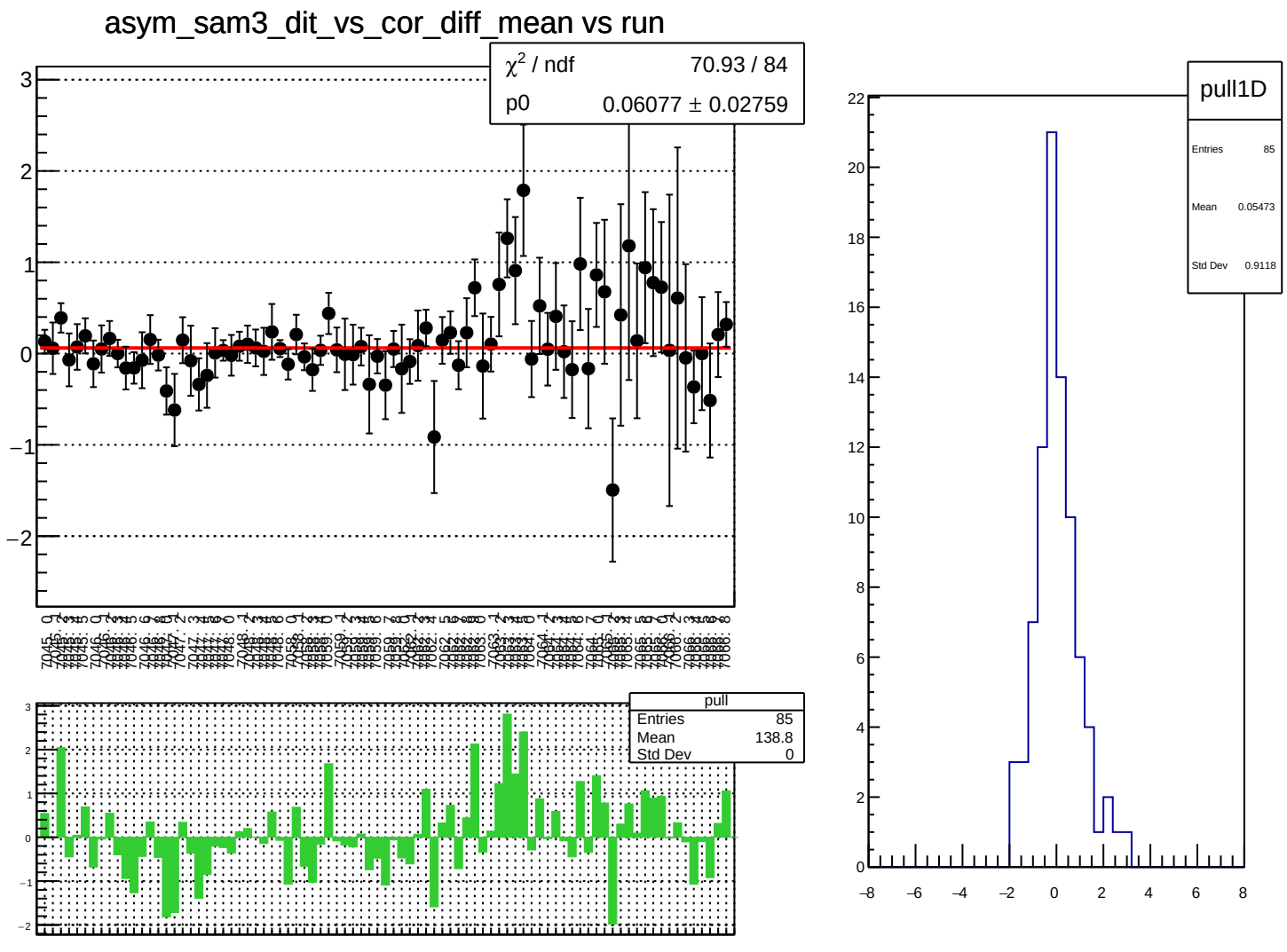

pull1D
Entries 85
Mean −0.02044
Std Dev 0.8415

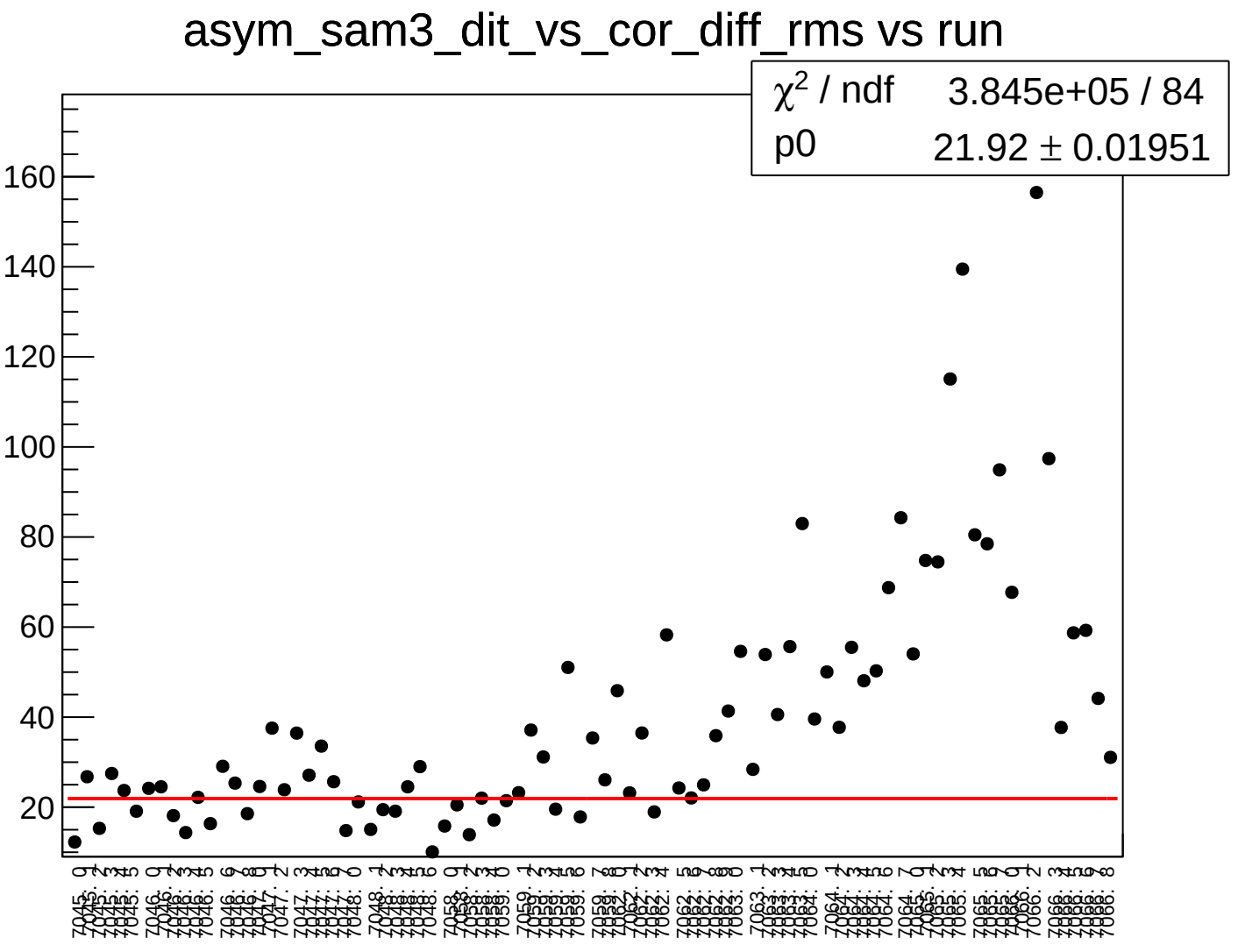

asym_sam3_rms vs run
χ² / ndf 4790 / 84
p0 965.8 ± 0.7536
1100
1050
1000
950
900
850

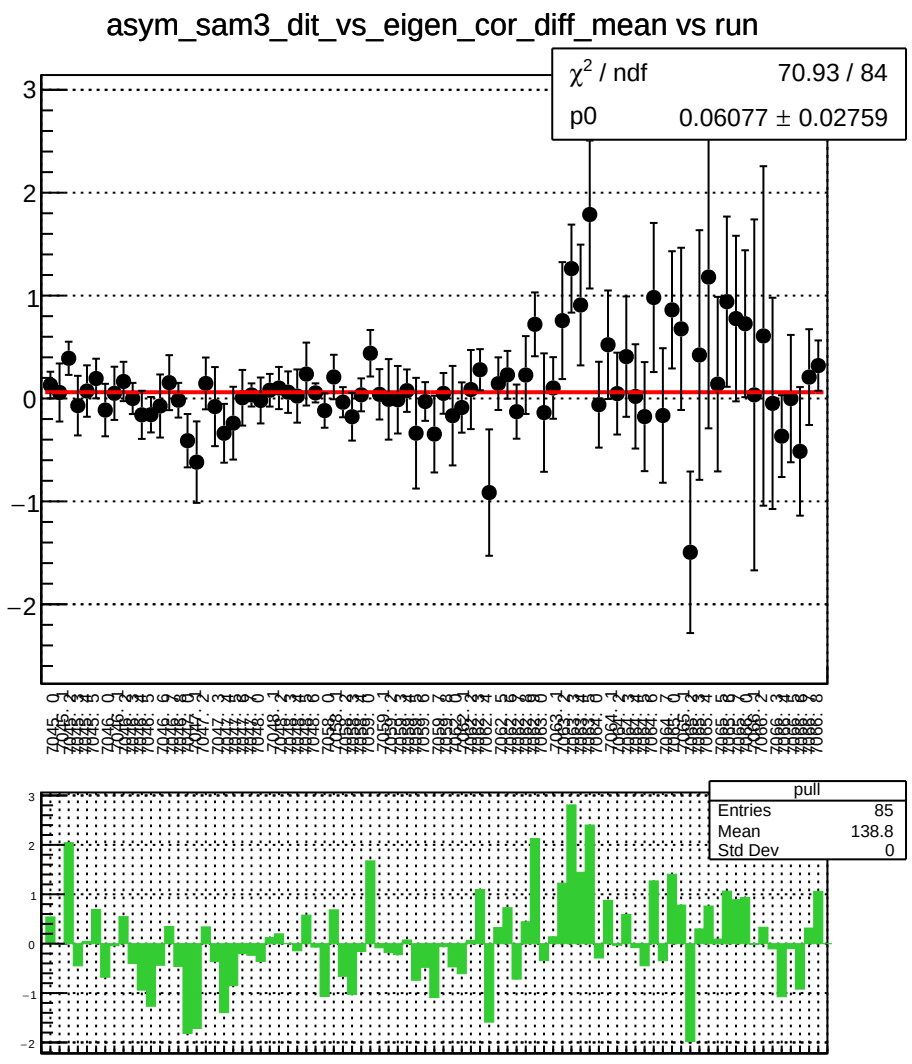

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 80.58 / 84
p0 −4.576e−14 ± 2.616e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 12.38
Std Dev 16.99
2
1
0
−1
−2

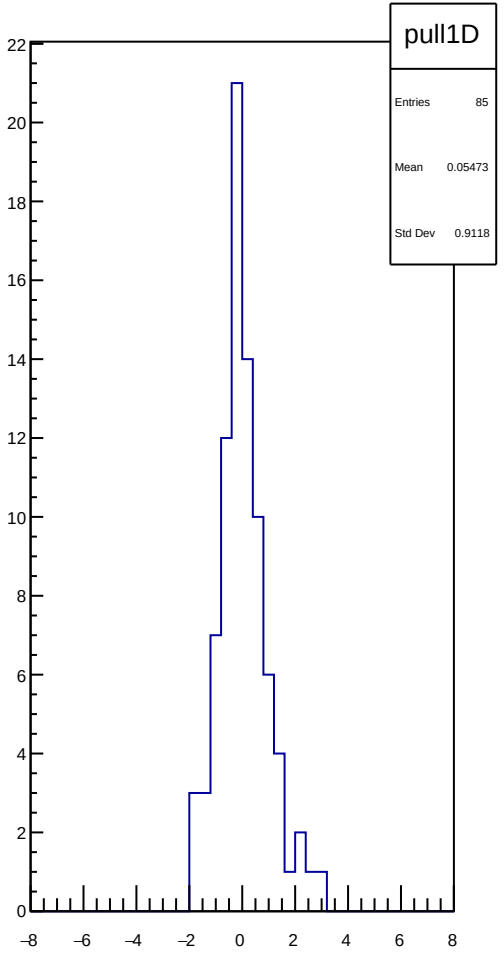

pull1D
Entries 85
Mean 0.07628
Std Dev 0.9706
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

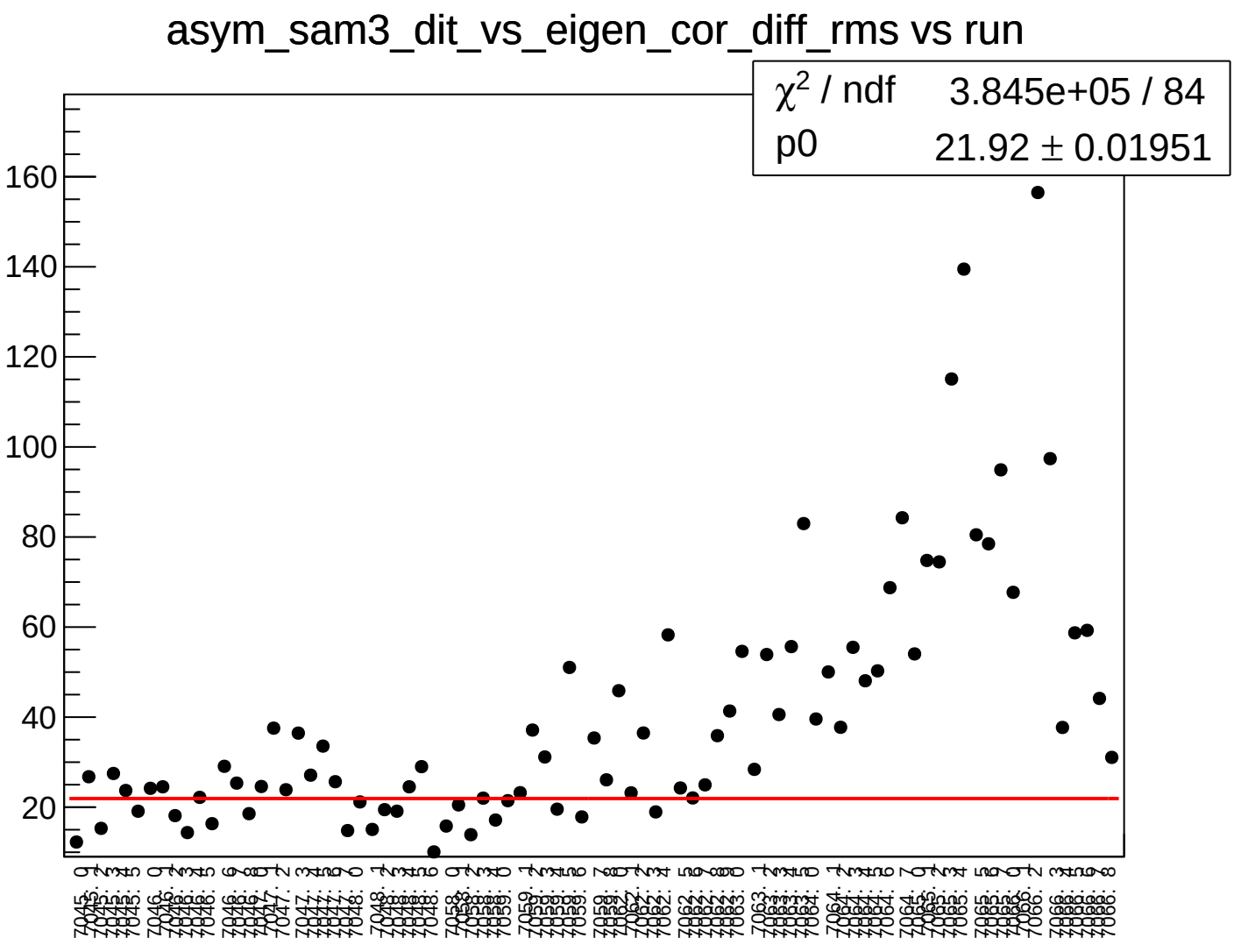

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 84
p0 1.333e−11 ± 1.85e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

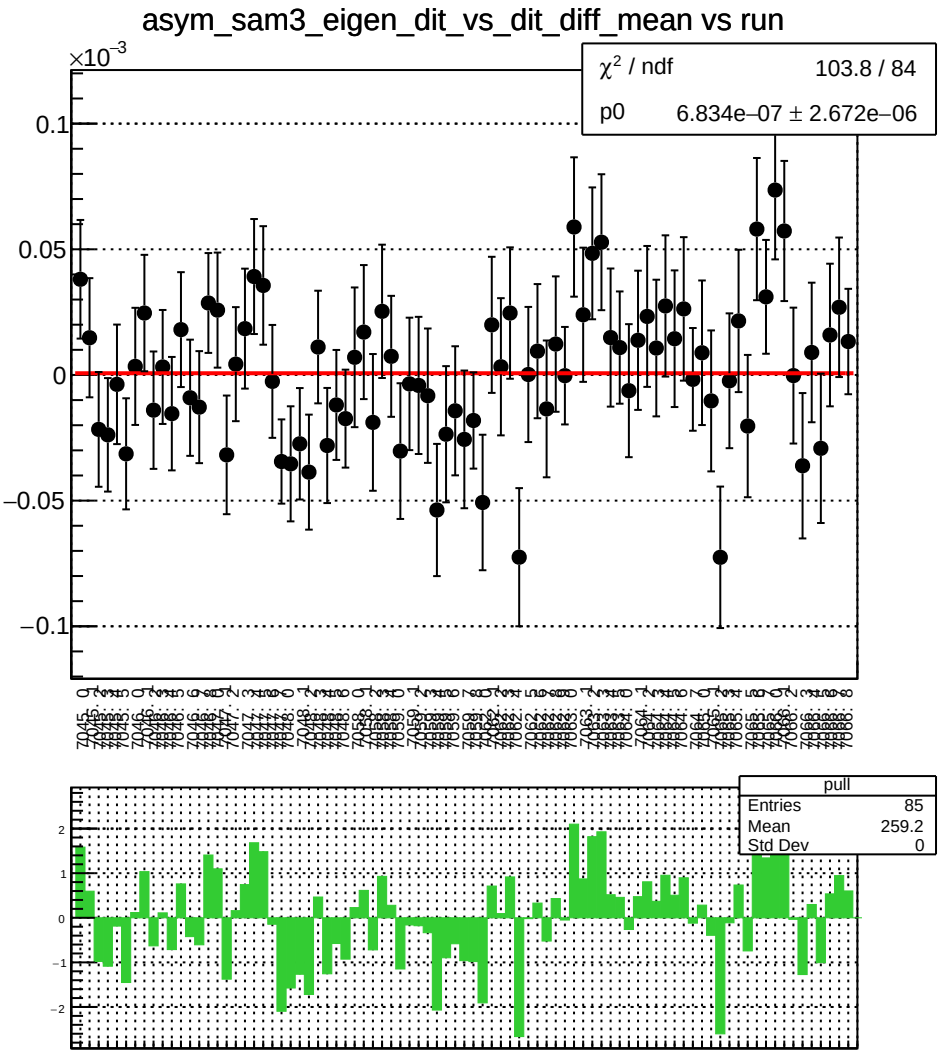

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 70.93 / 84
p0 0.06077 ± 0.02759
pull
Entries 85
Mean 138.8
Std Dev 0
pull1D
Entries 85
Mean 0.05473
Std Dev 0.9118

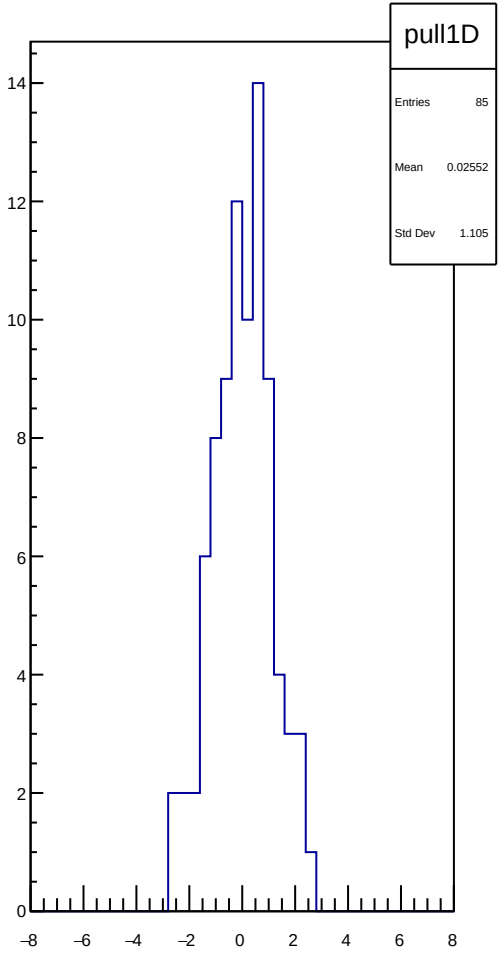

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.845e+05 / 84
p0 21.92 ± 0.01951
160
140
120
100
80
60
40
20

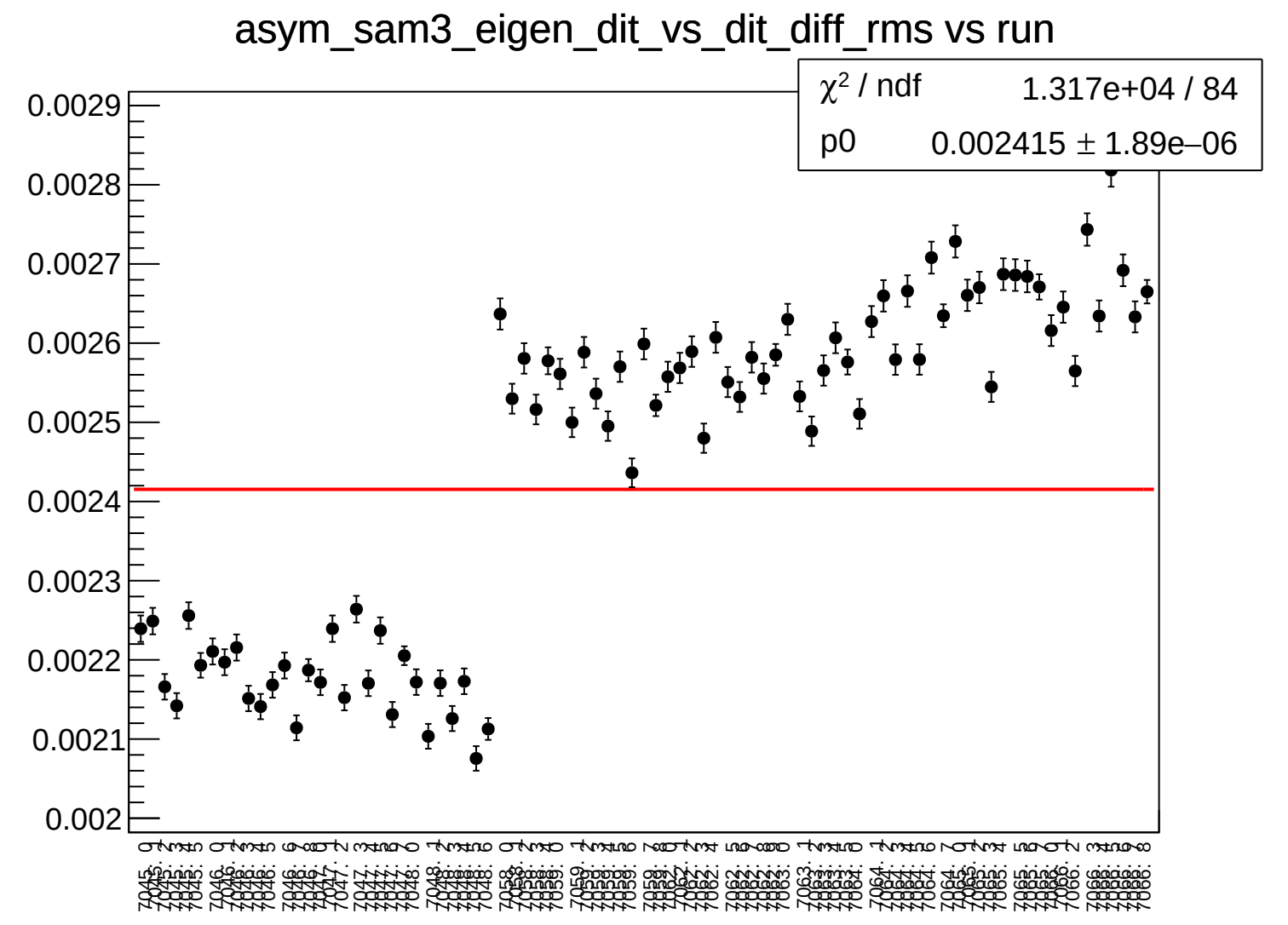

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.93 / 84
p0 0.06077 ± 0.02759
pull
Entries 85
Mean 138.8
Std Dev 0

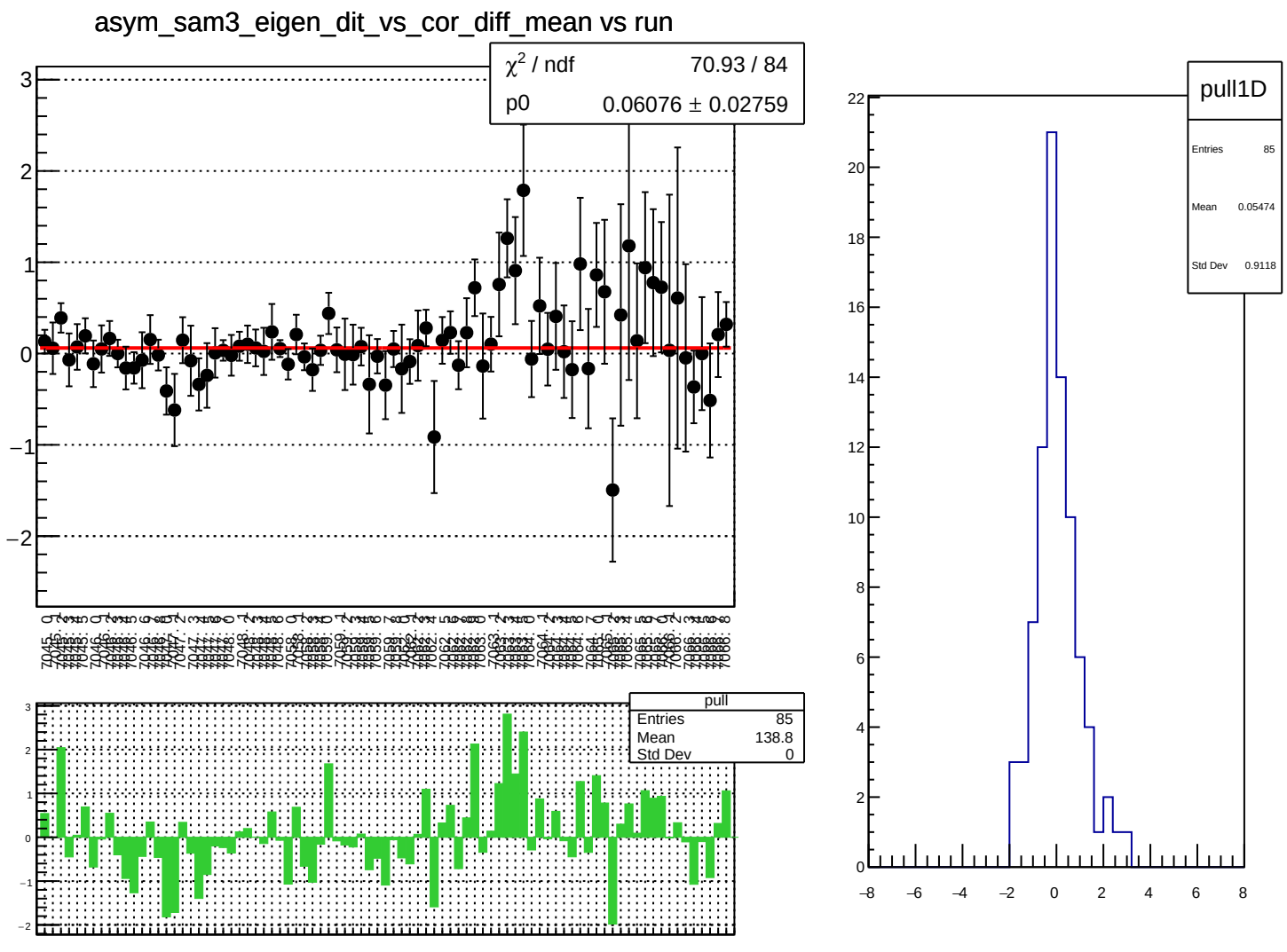

pull1D
Entries 85
Mean 0.05473
Std Dev 0.9118

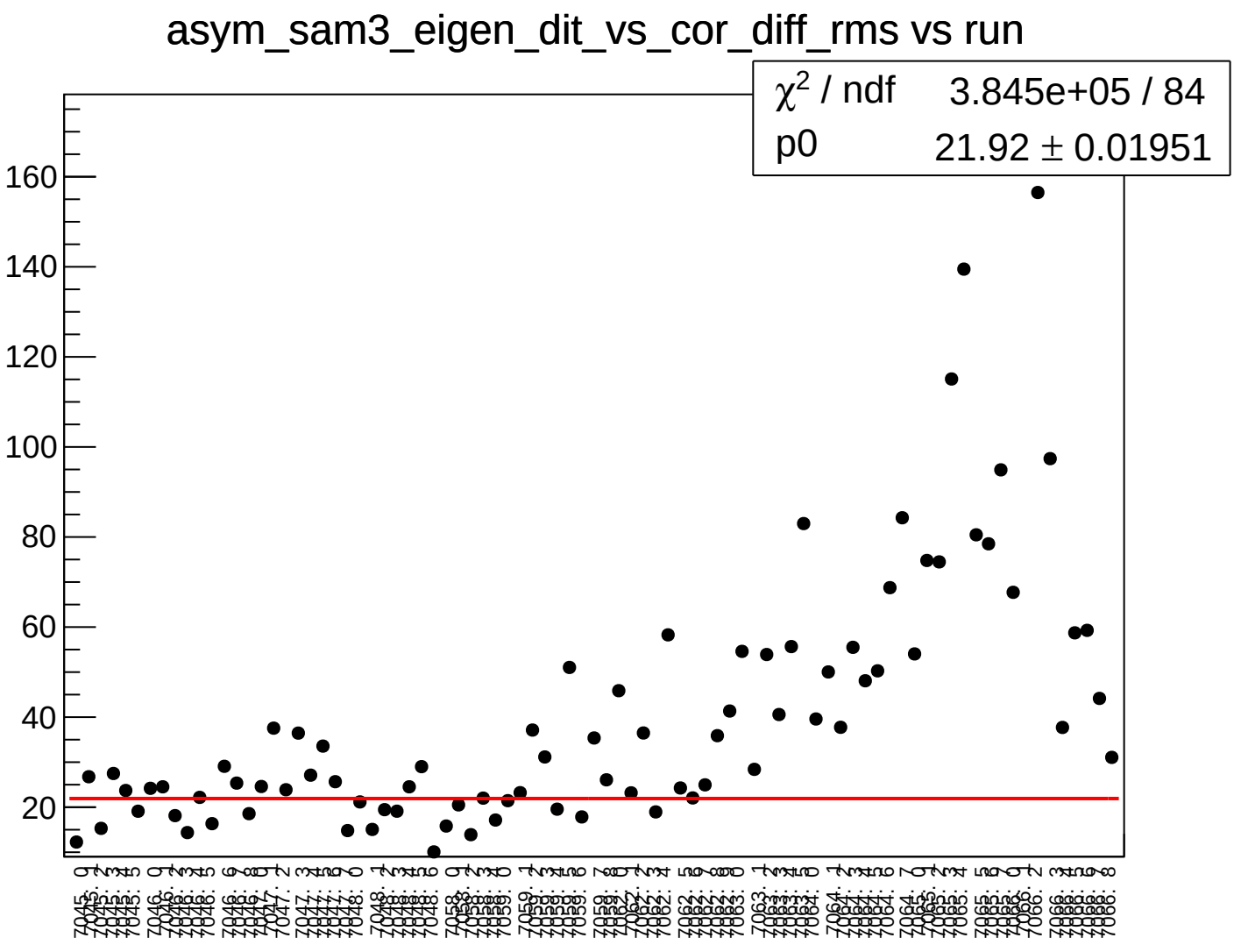

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.845e+05 / 84
p0 21.92 ± 0.01951
160
140
120
100
80
60
40
20

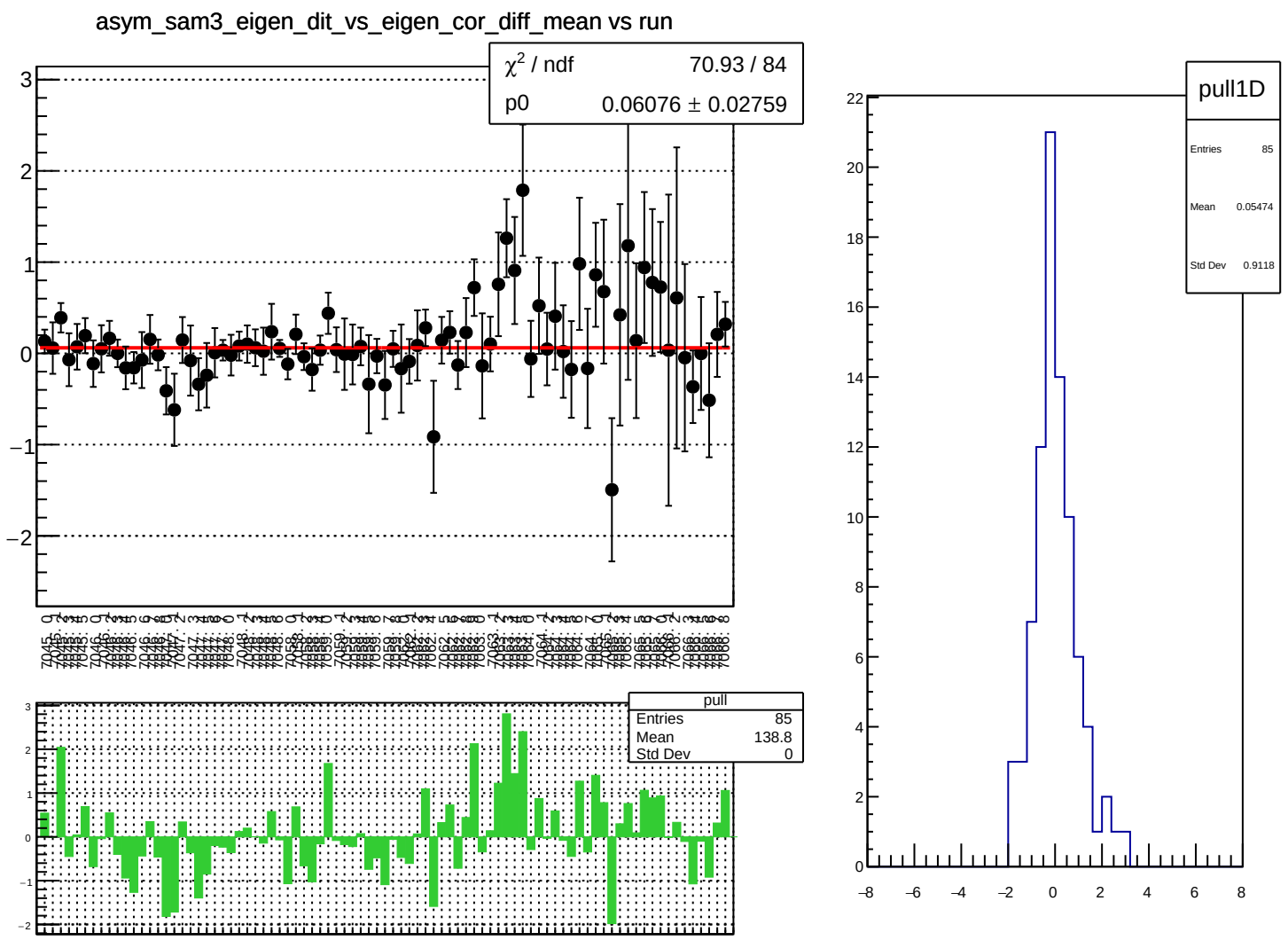

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.8 / 84
p0 6.834e−07 ± 2.672e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 259.2
Std Dev 0
2
1
0
−1
−2

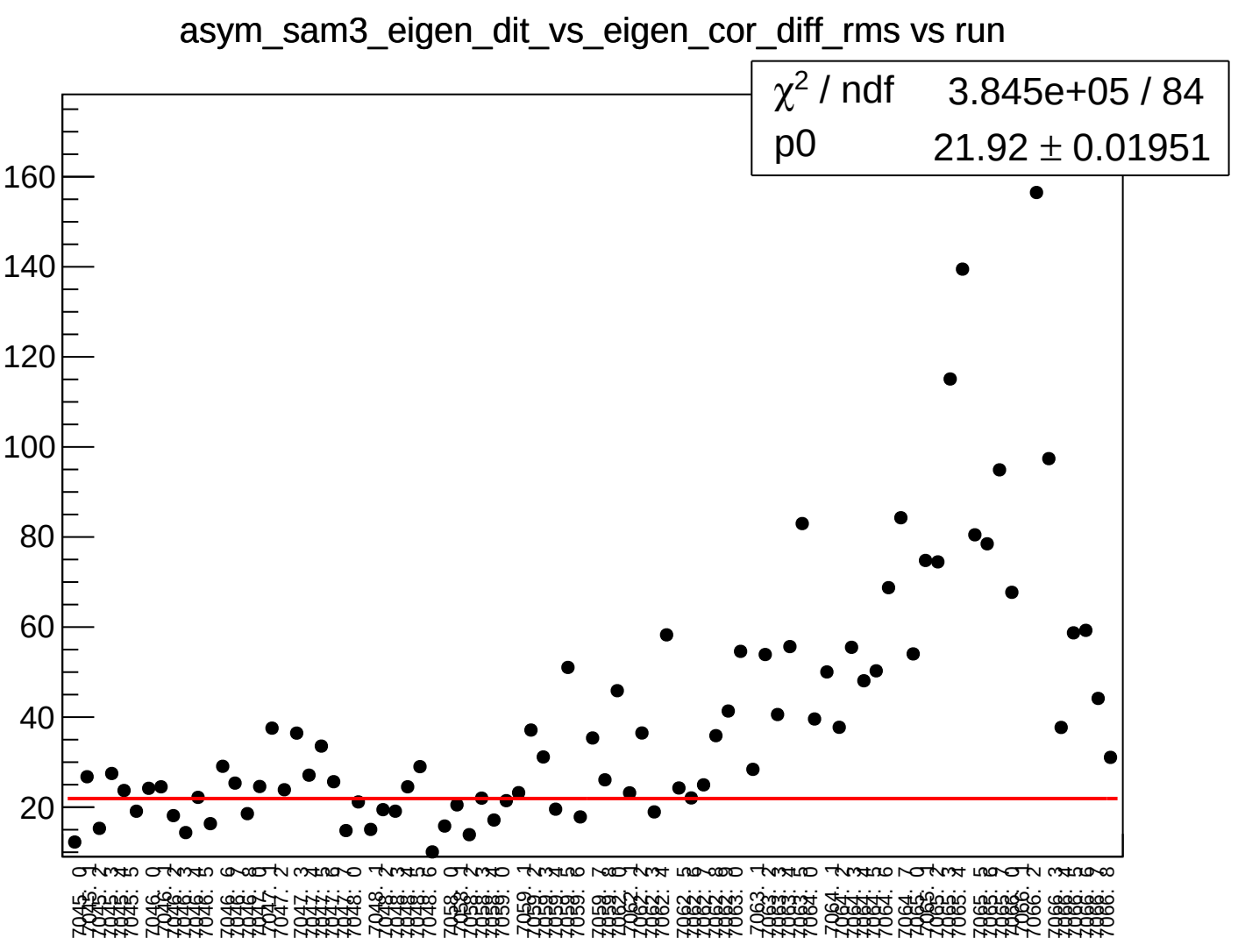

pull1D
Entries 85
Mean 0.02552
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

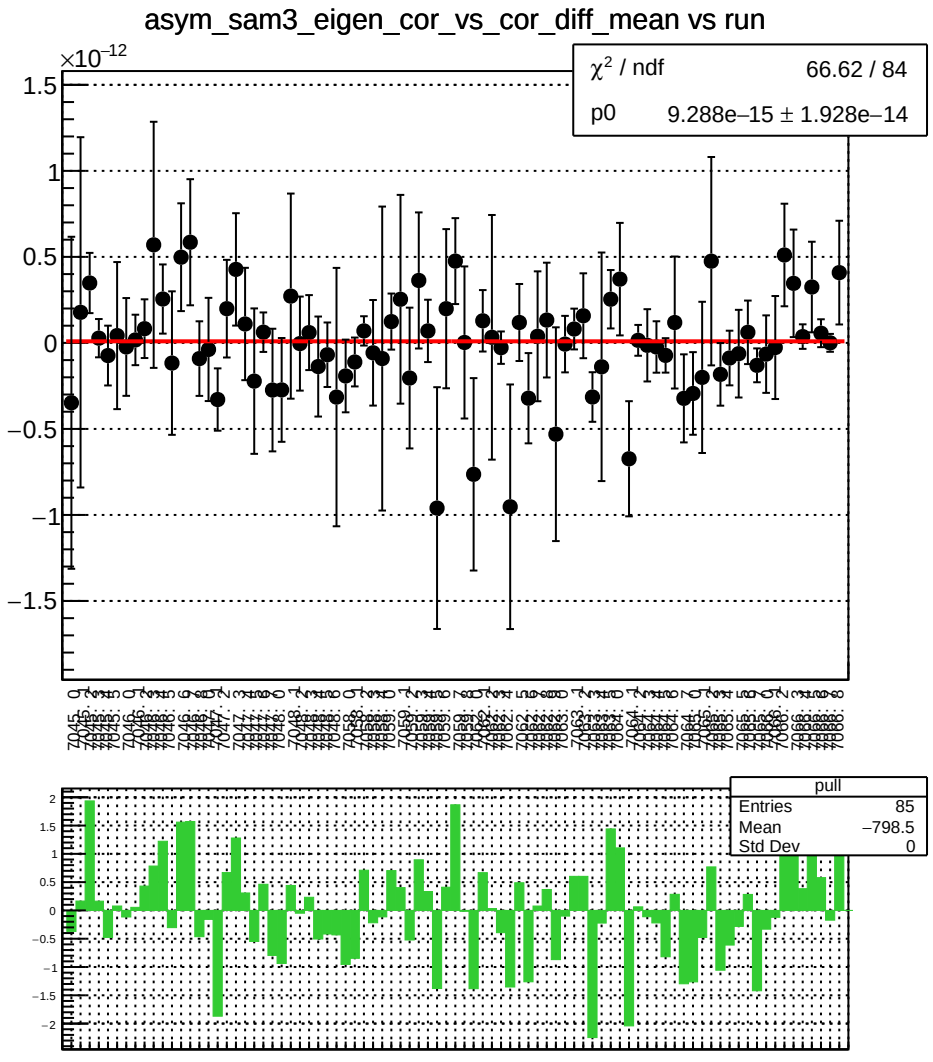

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.317e+04 / 84
p0 0.002415 ± 1.89e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

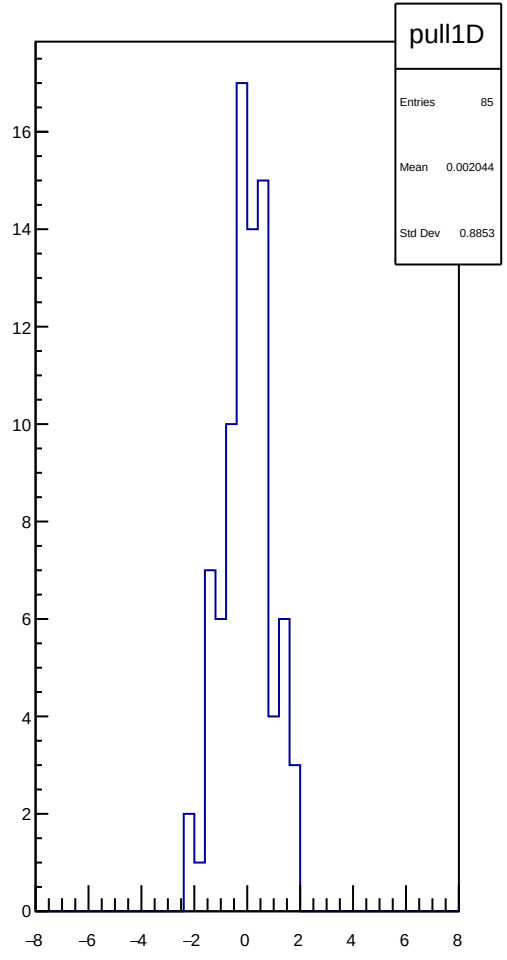

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.93 / 84
p0 0.06076 ± 0.02759
pull
Entries 85
Mean 138.8
Std Dev 0
pull1D
Entries 85
Mean 0.05474
Std Dev 0.9118

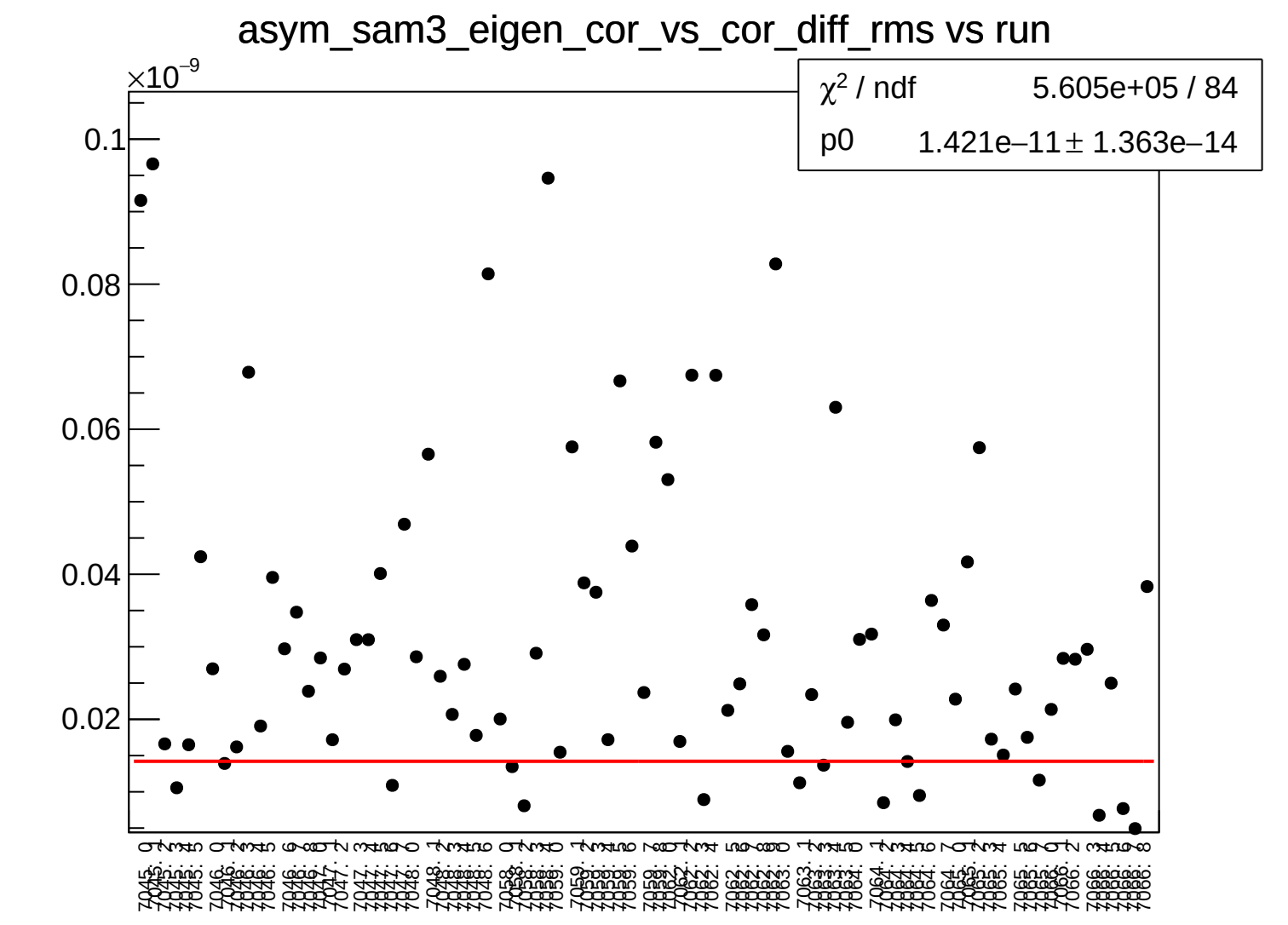

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.845e+05 / 84
p0 21.92 ± 0.01951
160
140
120
100
80
60
40
20

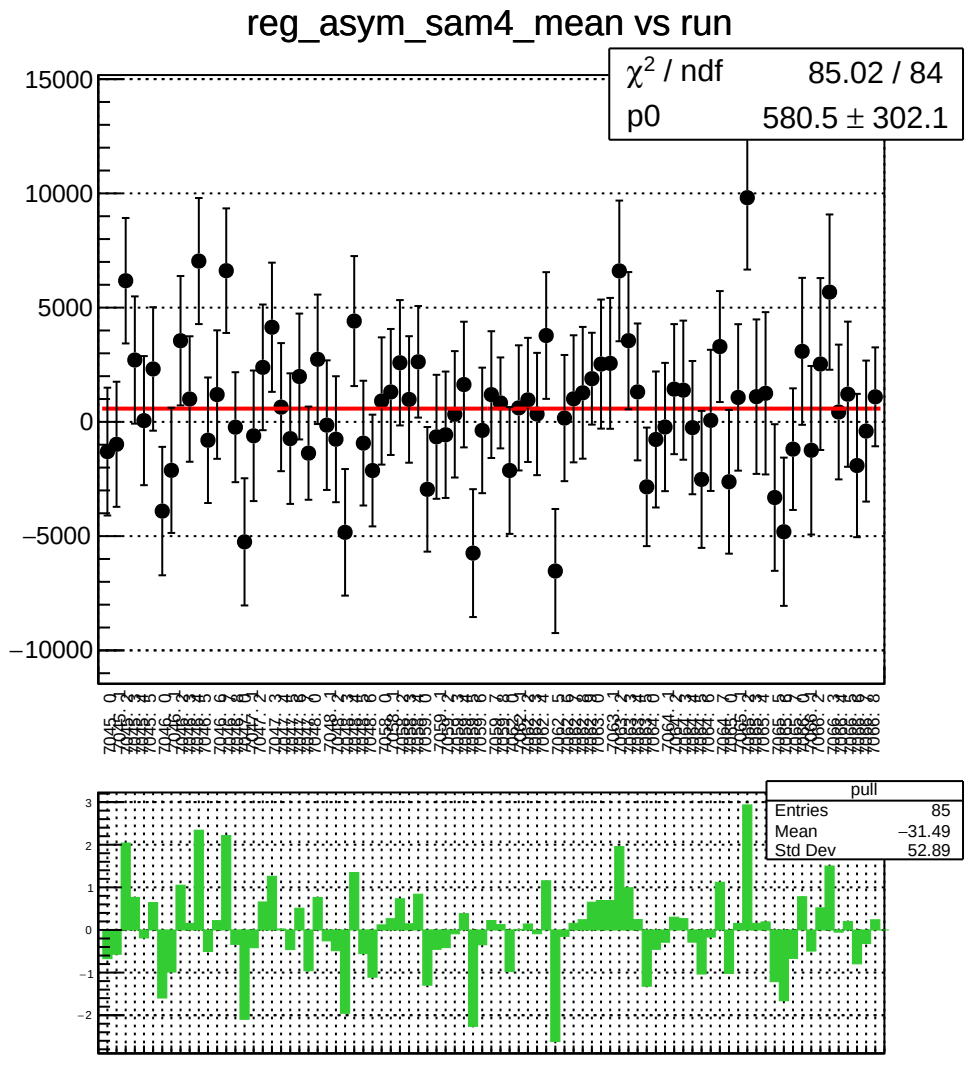

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.93 / 84
p0 0.06076 ± 0.02759
pull
Entries 85
Mean 138.8
Std Dev 0
pull1D
Entries 85
Mean 0.05474
Std Dev 0.9118

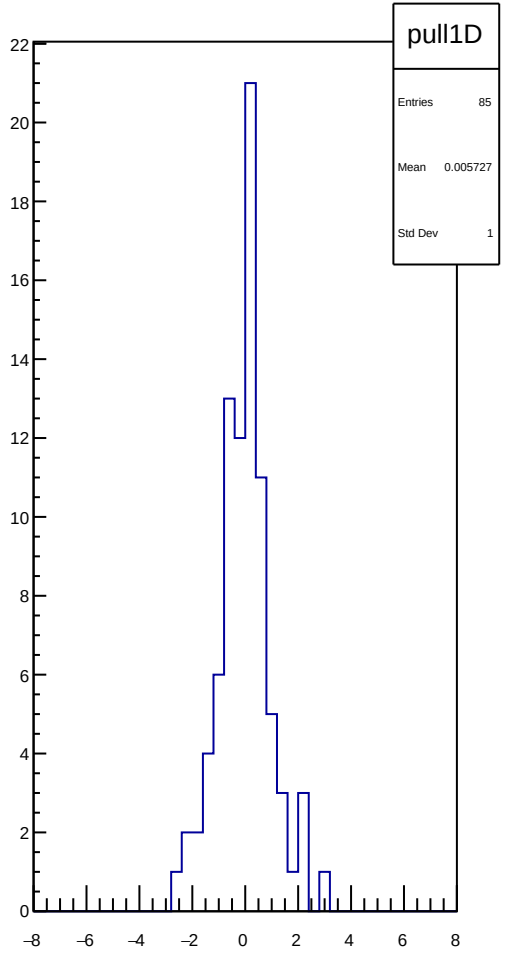

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.845e+05 / 84
p0 21.92 ± 0.01951
160
140
120
100
80
60
40
20

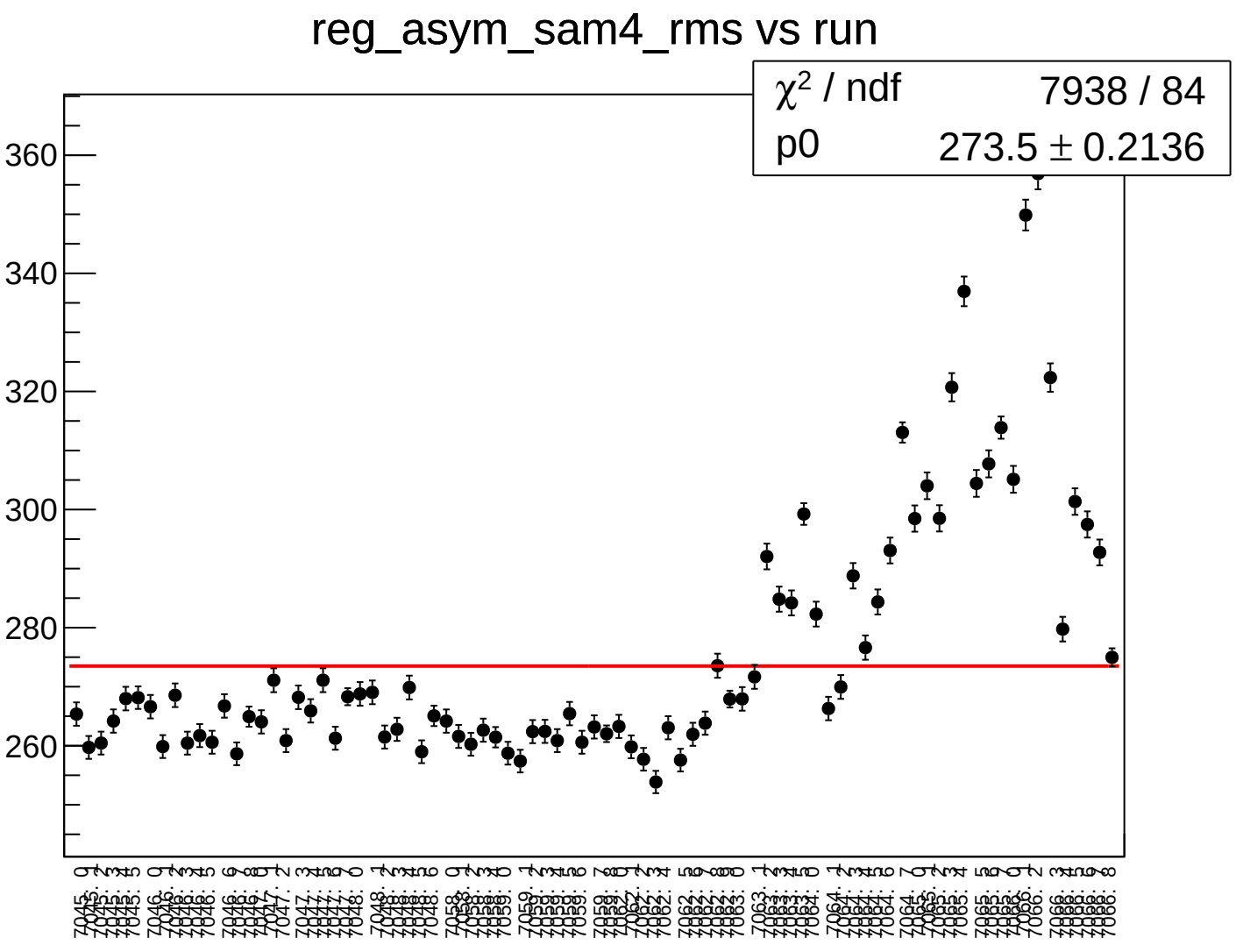

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.62 / 84
p0 9.288e−15 ± 1.928e−14
pull
Entries 85
Mean −798.5
Std Dev 0

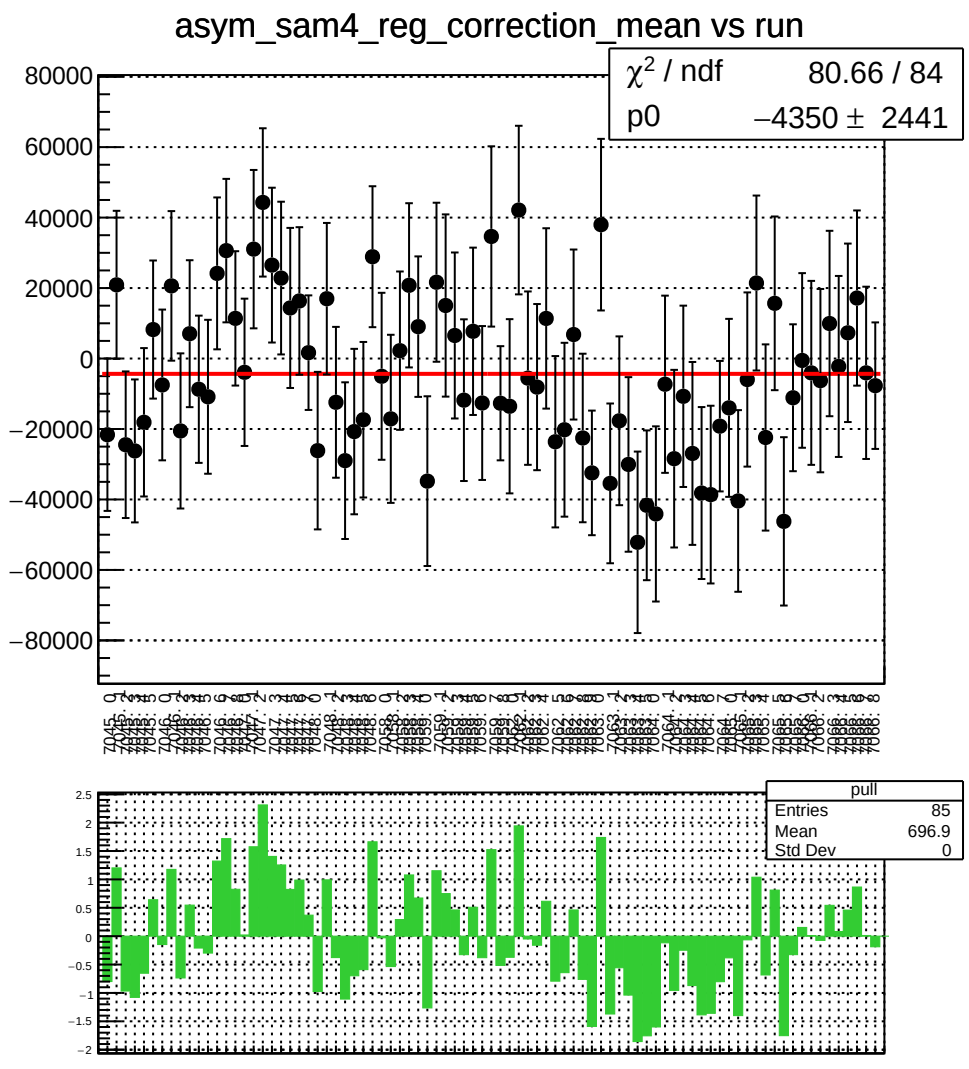

pull1D
Entries 85
Mean 0.002044
Std Dev 0.8853

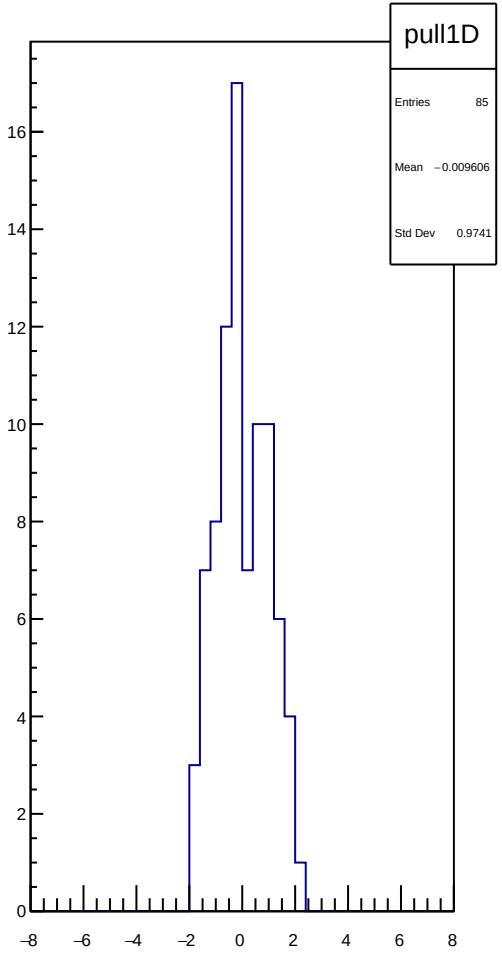

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.605e+05 / 84
p0 1.421e−11 ± 1.363e−14
0.1
0.08
0.06
0.04
0.02

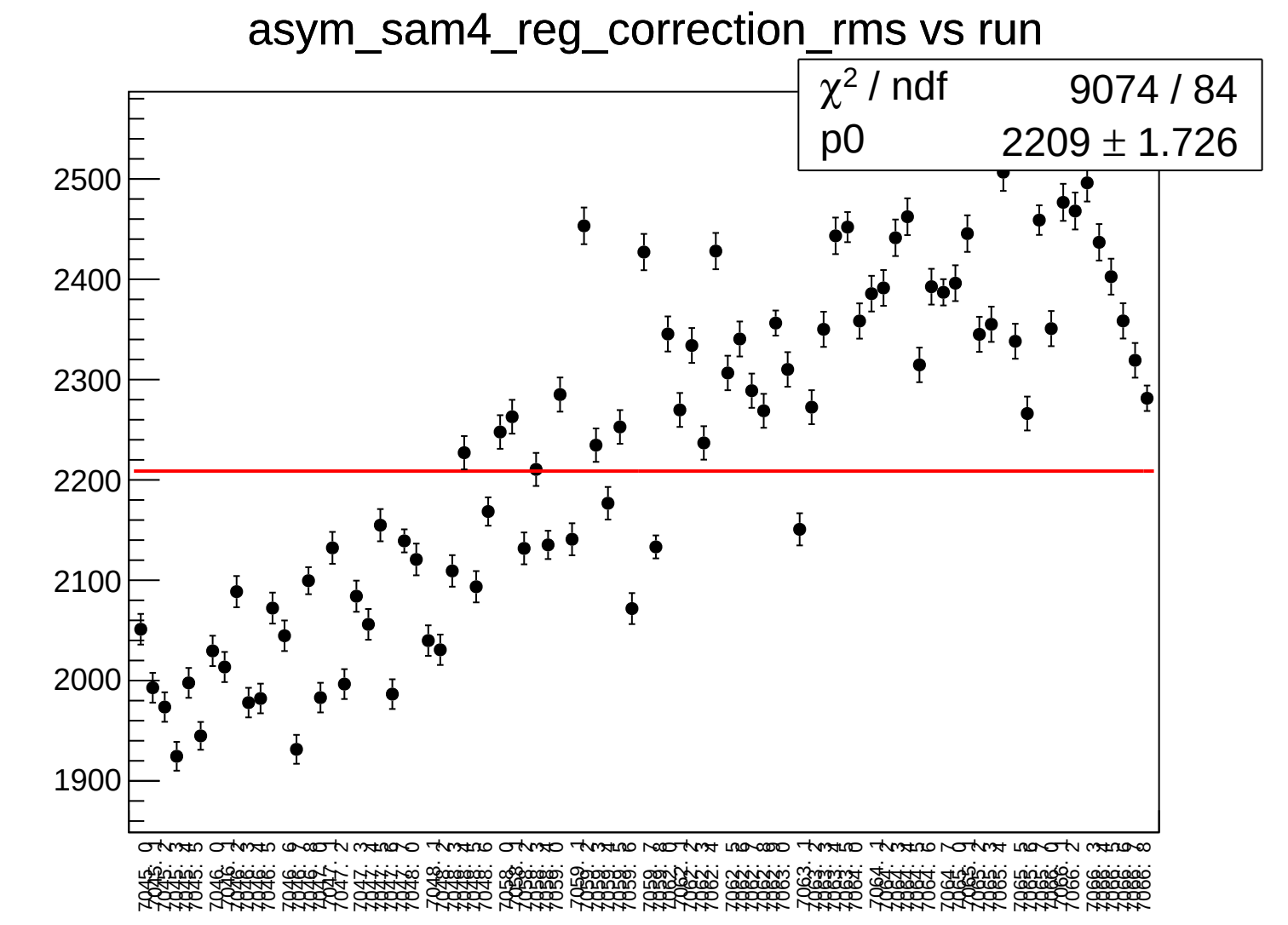

reg_asym_sam4_mean vs run
χ² / ndf 85.02 / 84
p0 580.5 ± 302.1
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −31.49
Std Dev 52.89
3
2
1
0
−1
−2

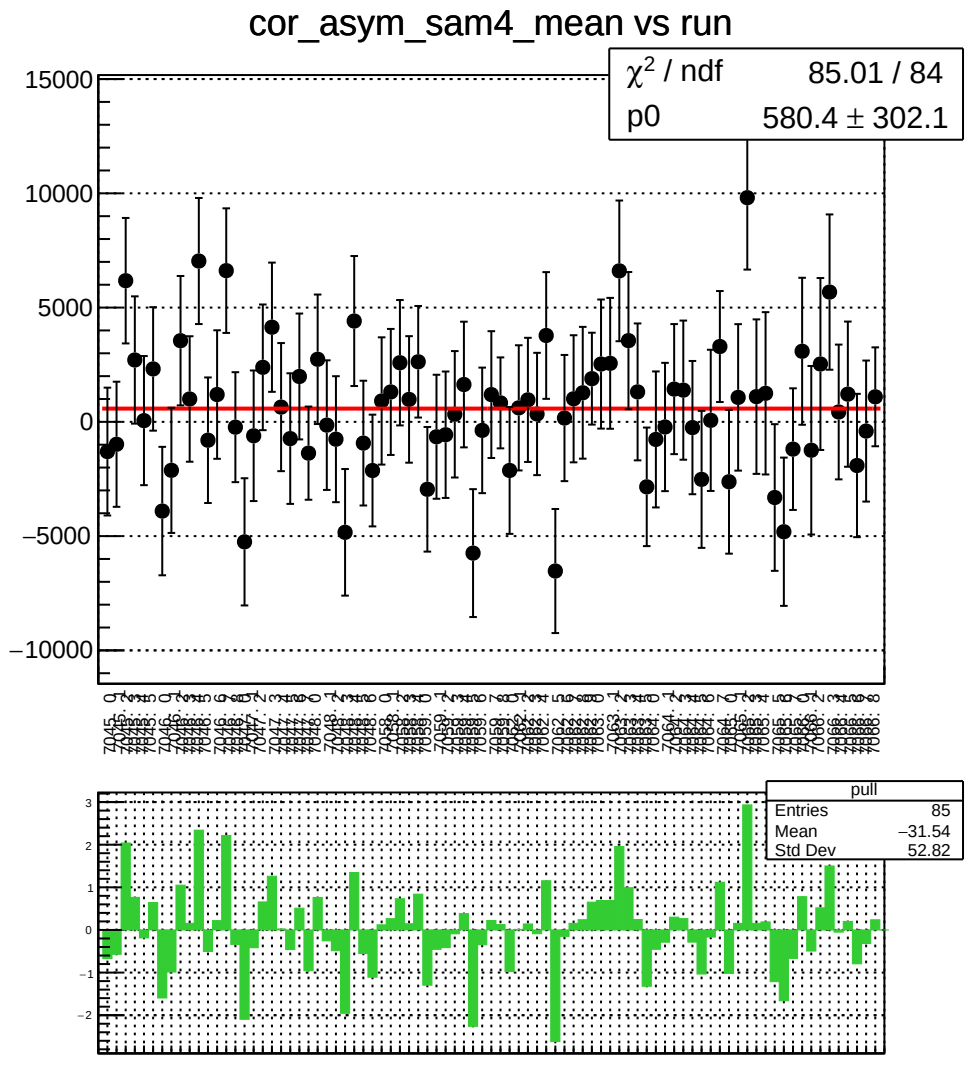

pull1D
Entries 85
Mean 0.005727
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

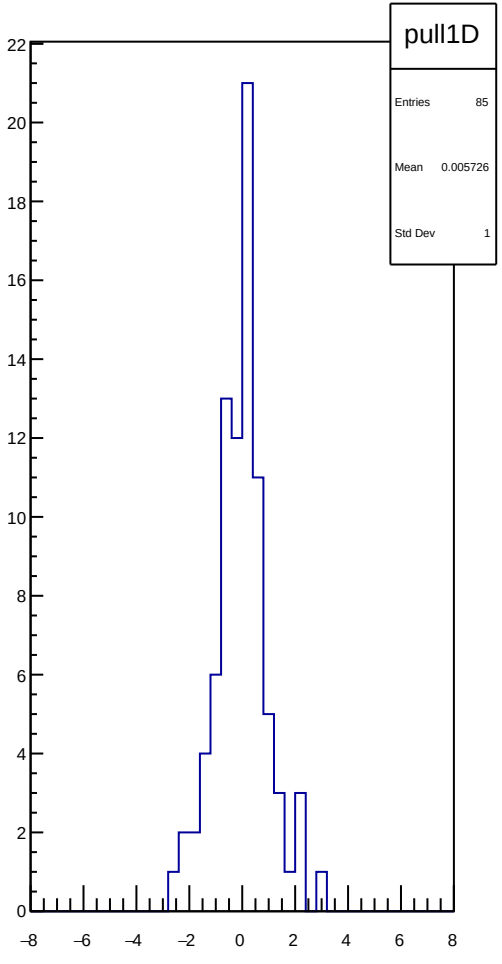

reg_asym_sam4_rms vs run
χ² / ndf 7938 / 84
p0 273.5 ± 0.2136
360
340
320
300
280
260

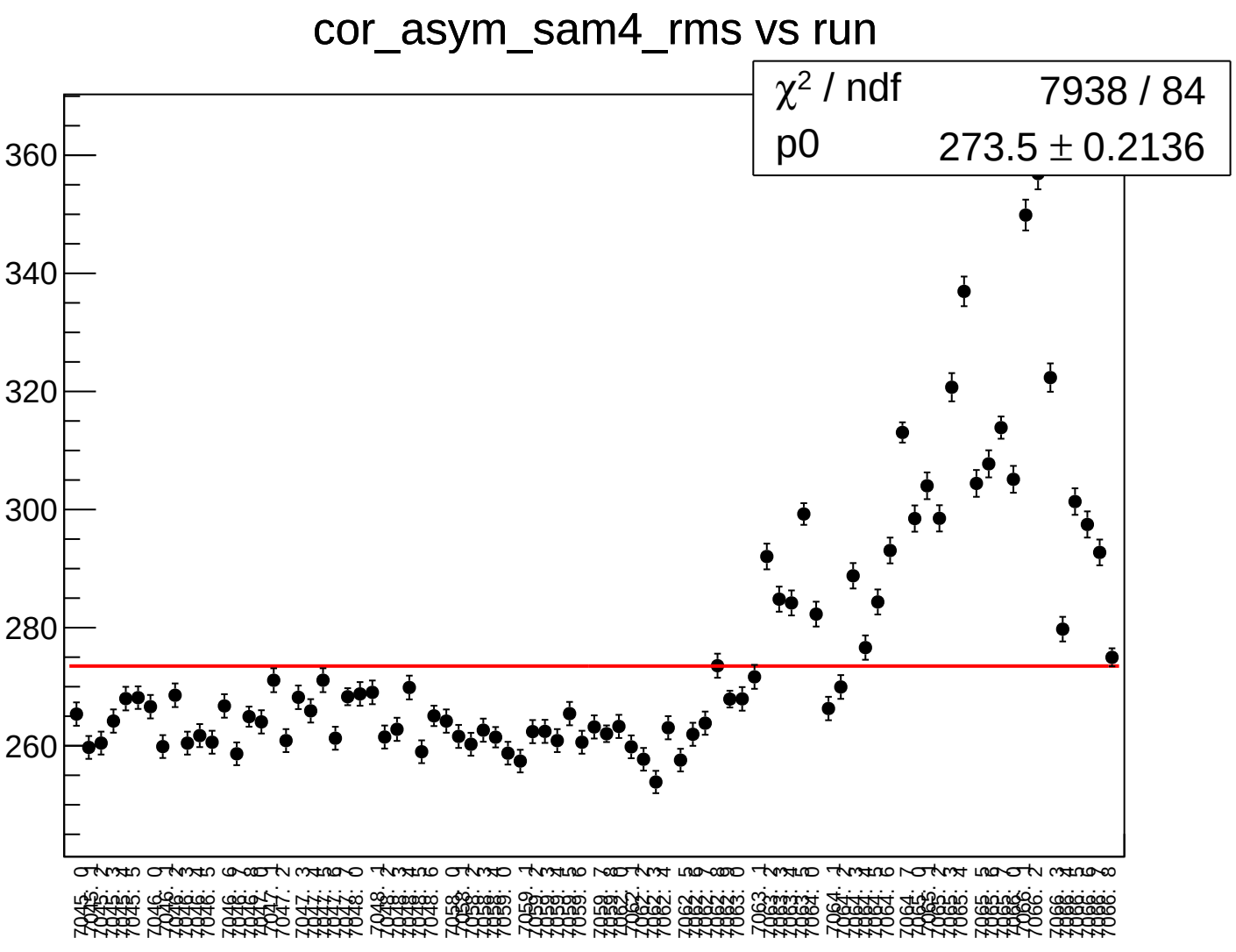

asym_sam4_reg_correction_mean vs run
χ² / ndf 80.66 / 84
p0 −4350 ± 2441
pull
Entries 85
Mean 696.9
Std Dev 0

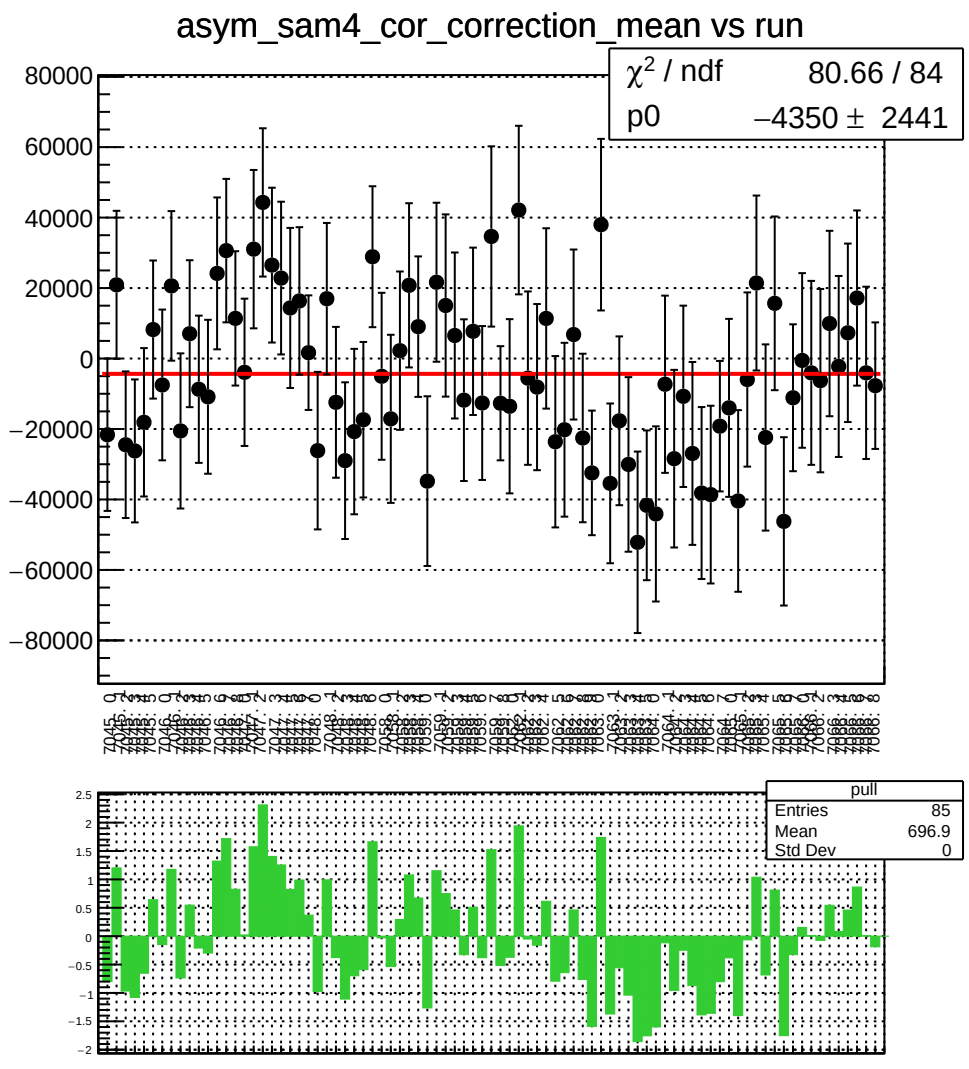

pull1D
Entries 85
Mean −0.009606
Std Dev 0.9741

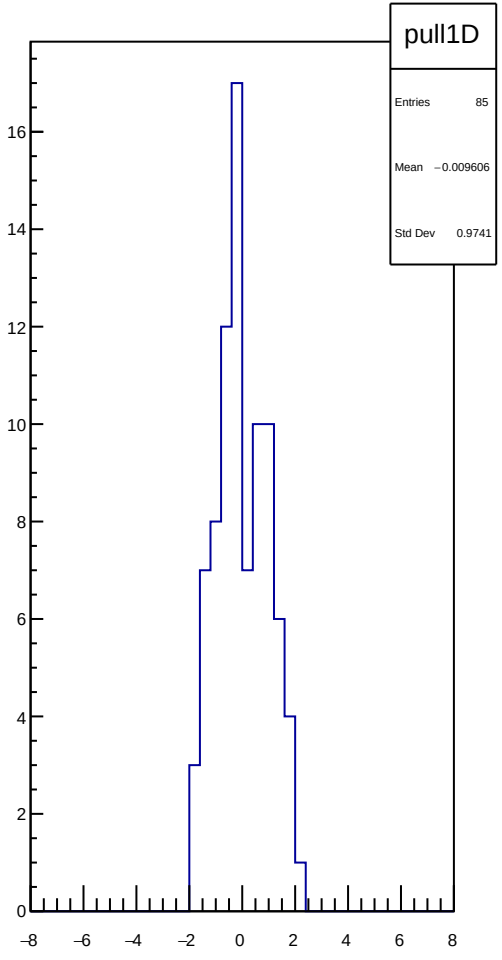

asym_sam4_reg_correction_rms vs run
χ² / ndf 9074 / 84
p0 2209 ± 1.726
2500
2400
2300
2200
2100
2000
1900

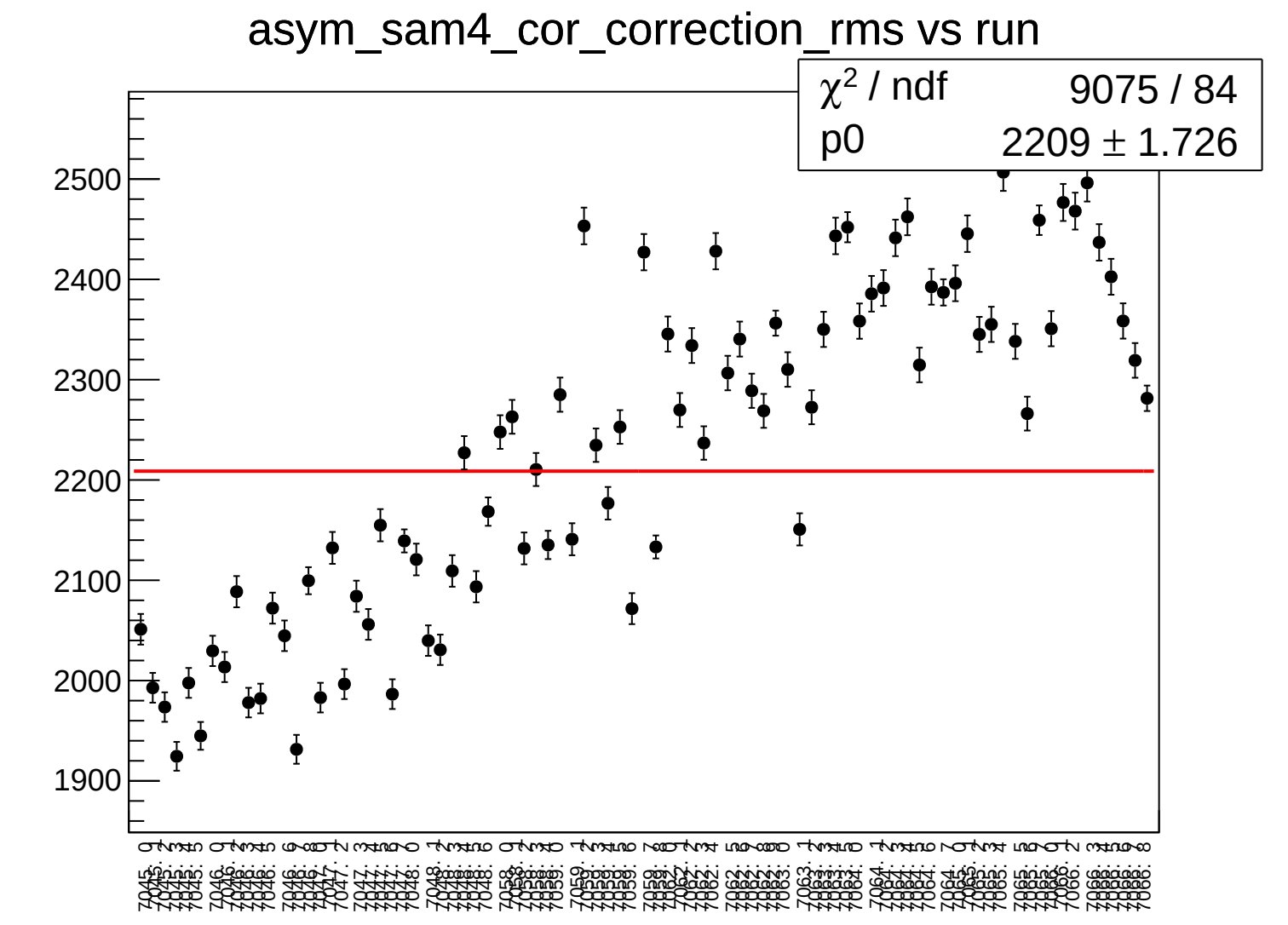

cor_asym_sam4_mean vs run
χ² / ndf 85.01 / 84
p0 580.4 ± 302.1
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −31.54
Std Dev 52.82
3
2
1
0
−1
−2

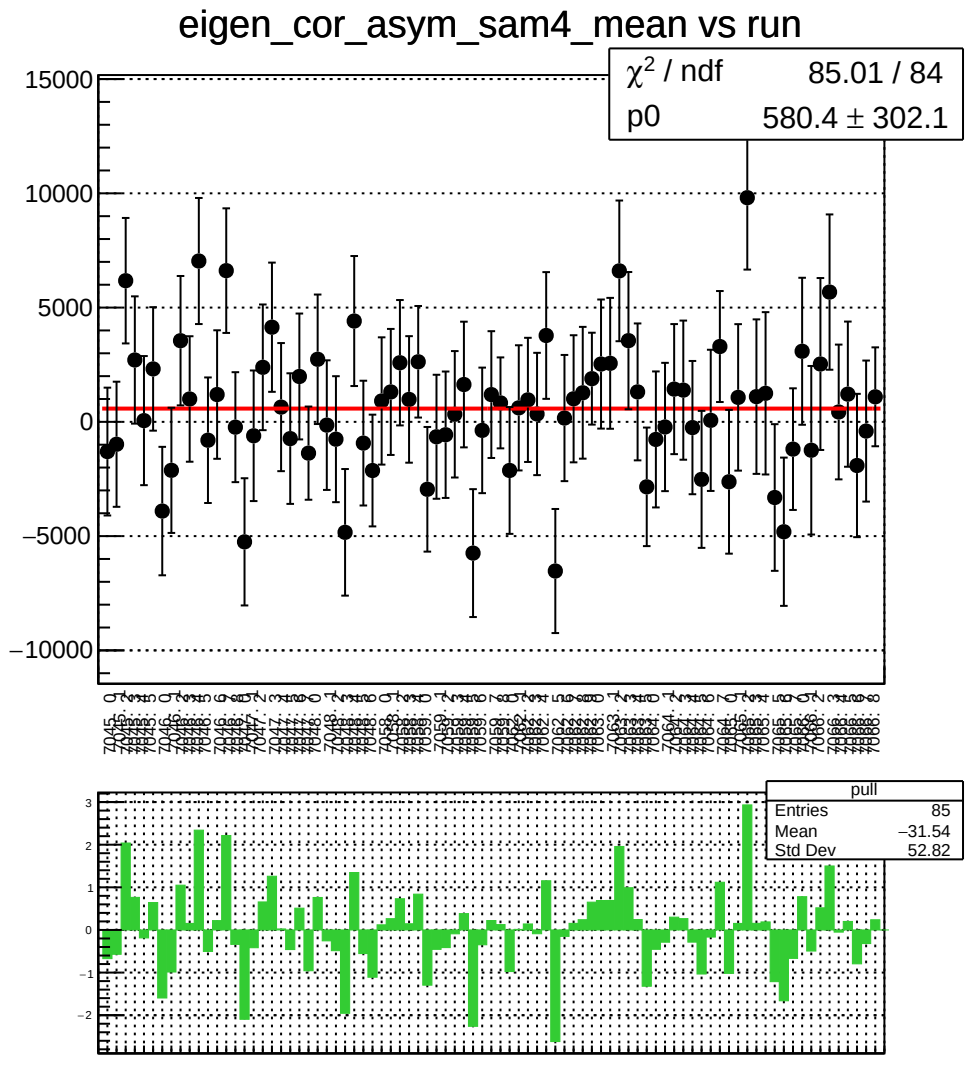

pull1D
Entries 85
Mean 0.005726
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

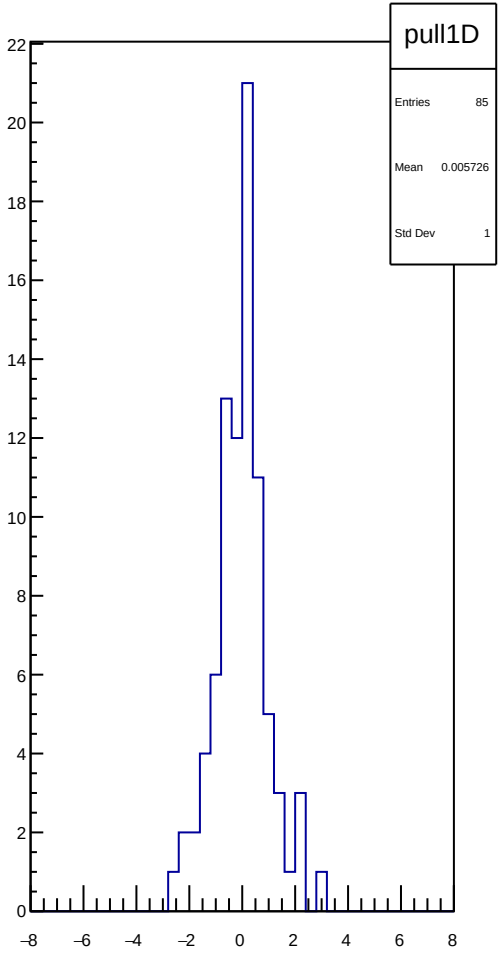

cor_asym_sam4_rms vs run
χ² / ndf 7938 / 84
p0 273.5 ± 0.2136
360
340
320
300
280
260

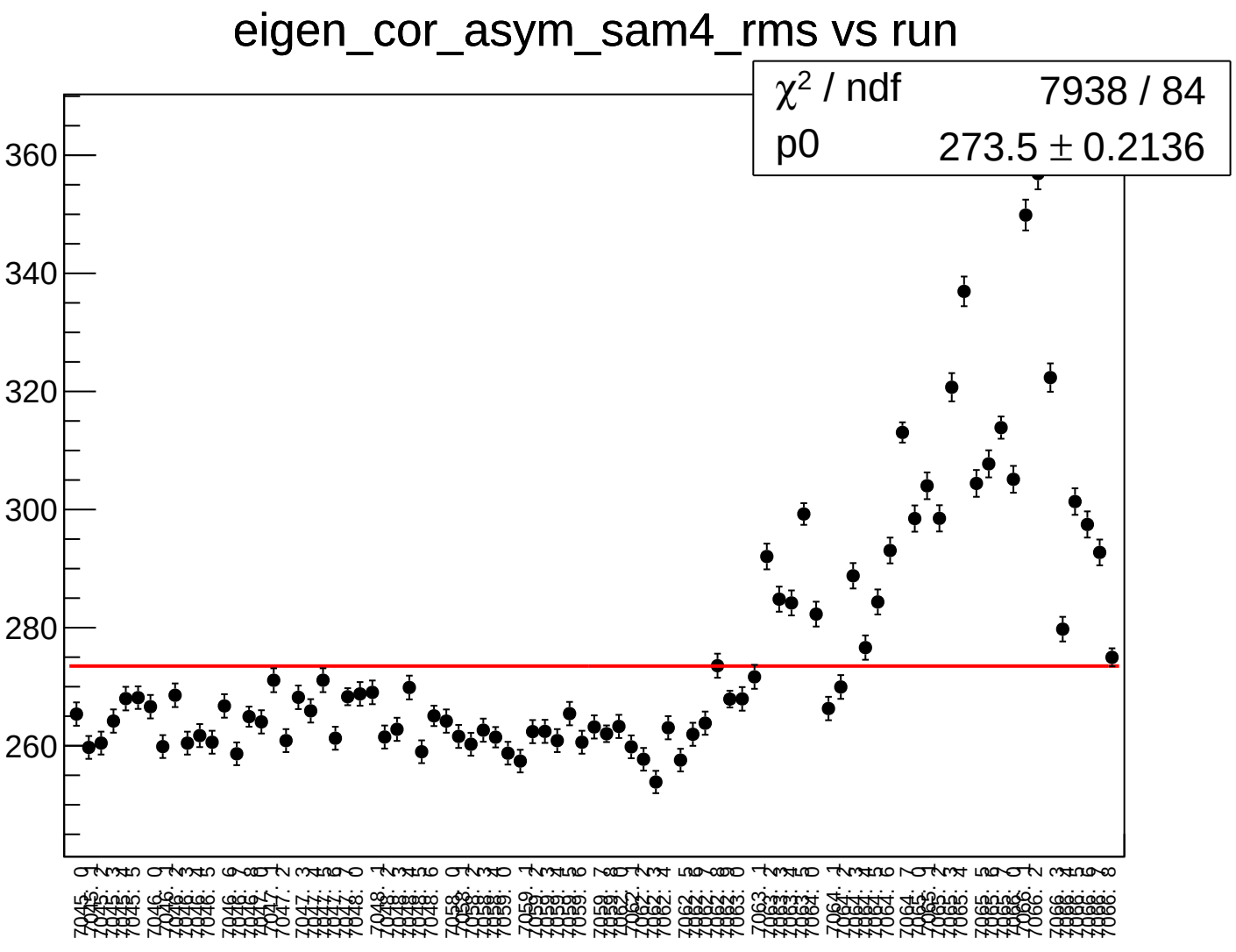

asym_sam4_cor_correction_mean vs run
χ² / ndf 80.66 / 84
p0 −4350 ± 2441
pull
Entries 85
Mean 696.9
Std Dev 0

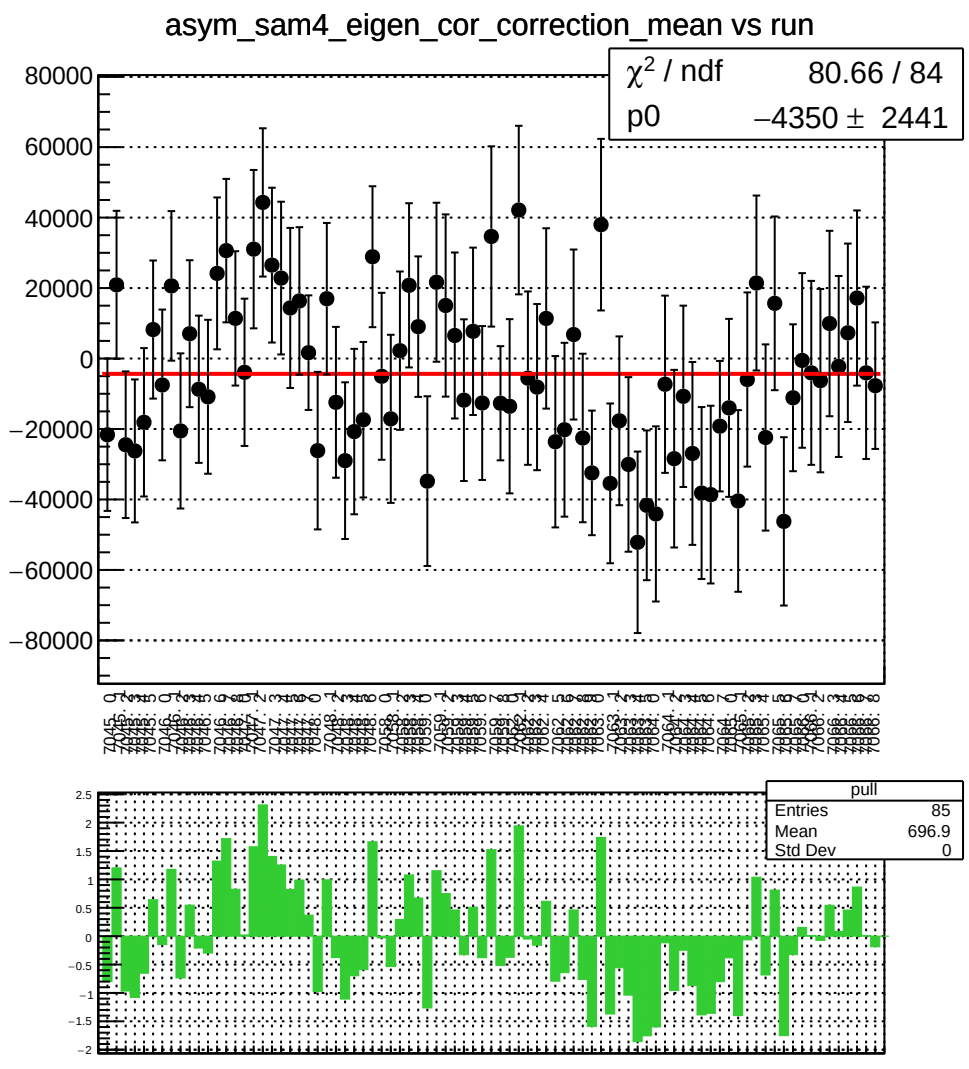

pull1D
Entries 85
Mean −0.009606
Std Dev 0.9741

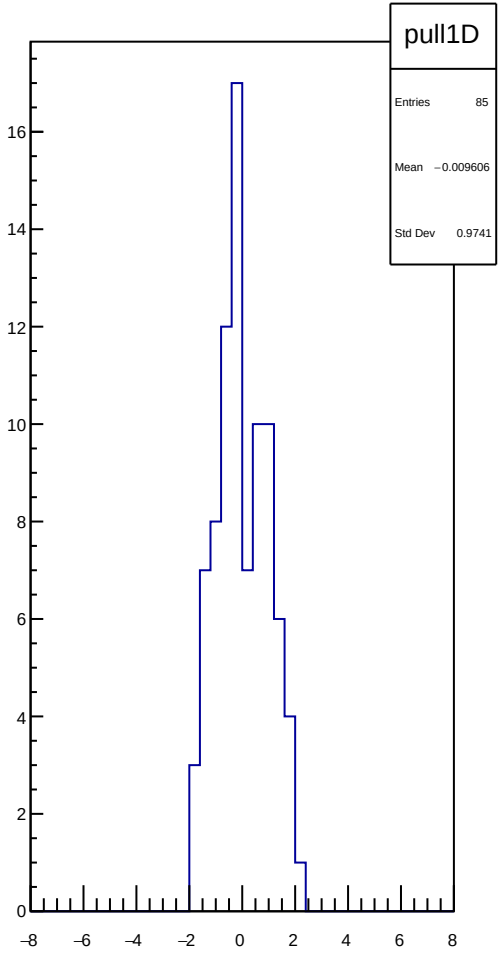

asym_sam4_cor_correction_rms vs run
χ² / ndf 9075 / 84
p0 2209 ± 1.726
2500
2400
2300
2200
2100
2000
1900

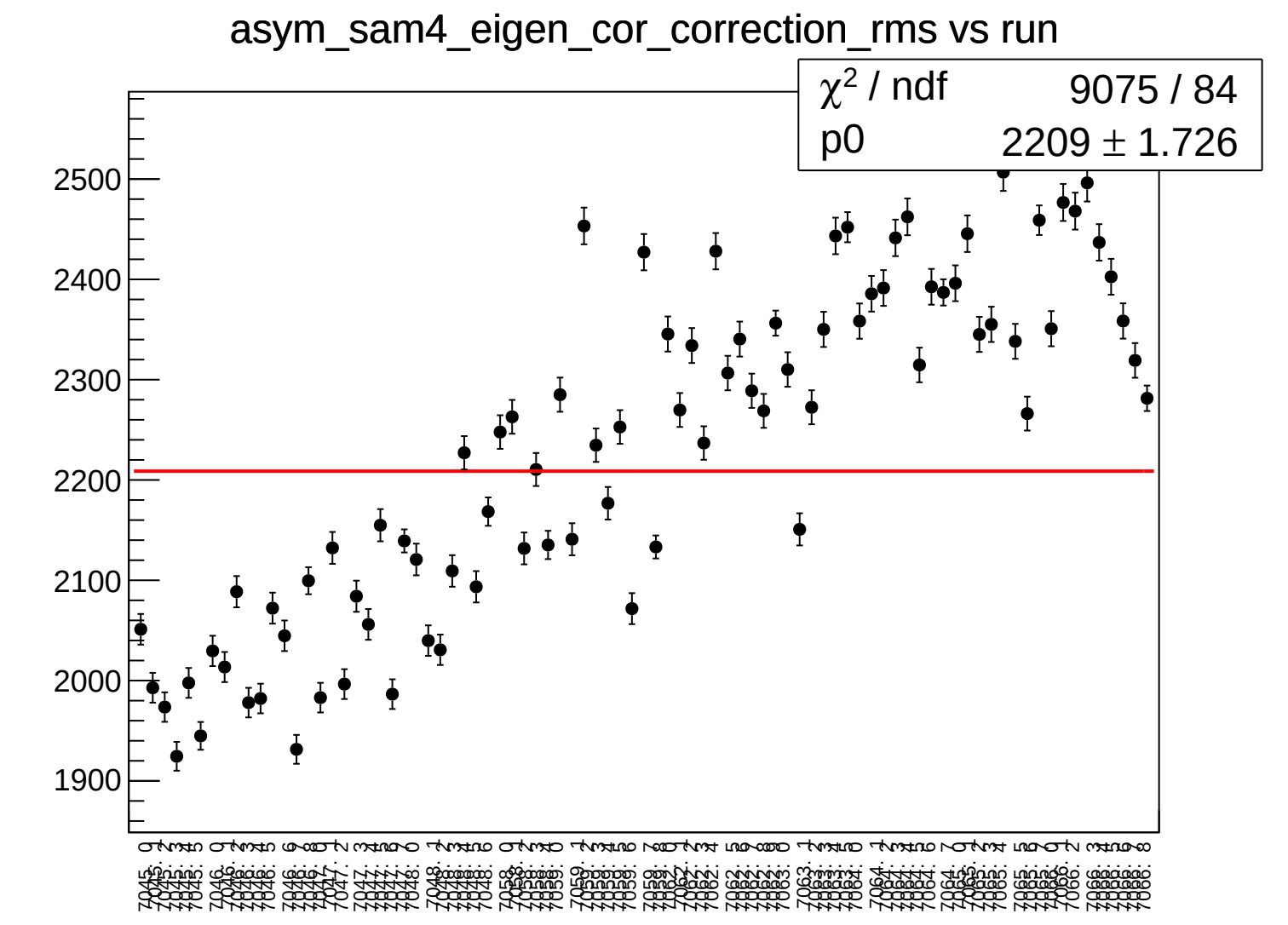

eigen_cor_asym_sam4_mean vs run
χ² / ndf 85.01 / 84
p0 580.4 ± 302.1
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −31.54
Std Dev 52.82
3
2
1
0
−1
−2

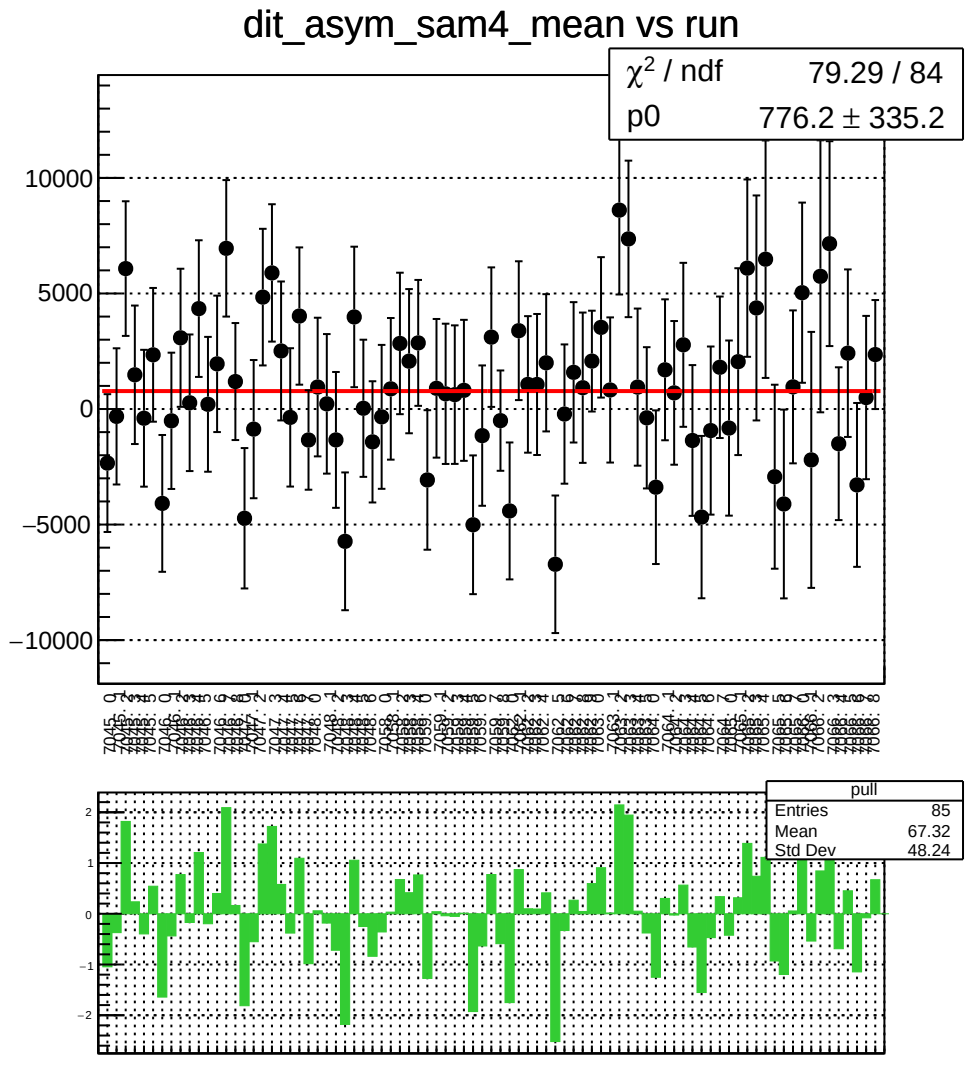

pull1D
Entries 85
Mean 0.005726
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

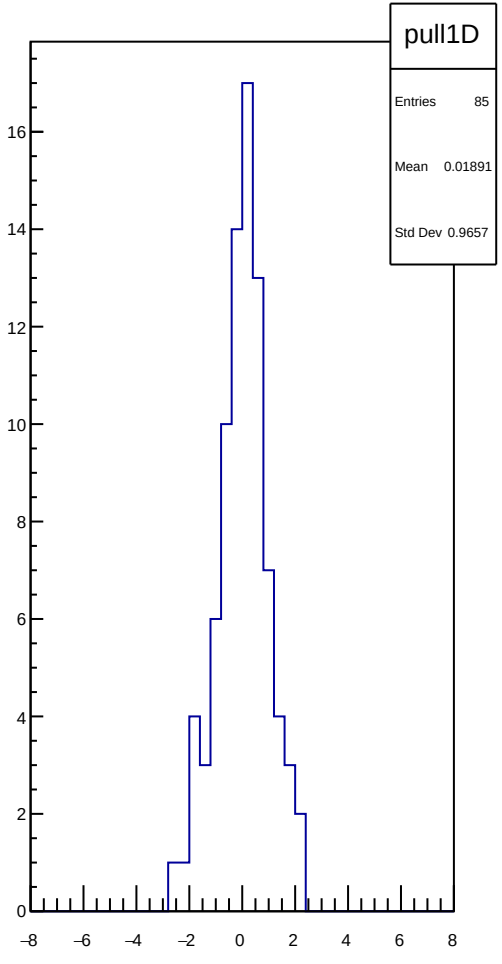

eigen_cor_asym_sam4_rms vs run
χ² / ndf 7938 / 84
p0 273.5 ± 0.2136
360
340
320
300
280
260

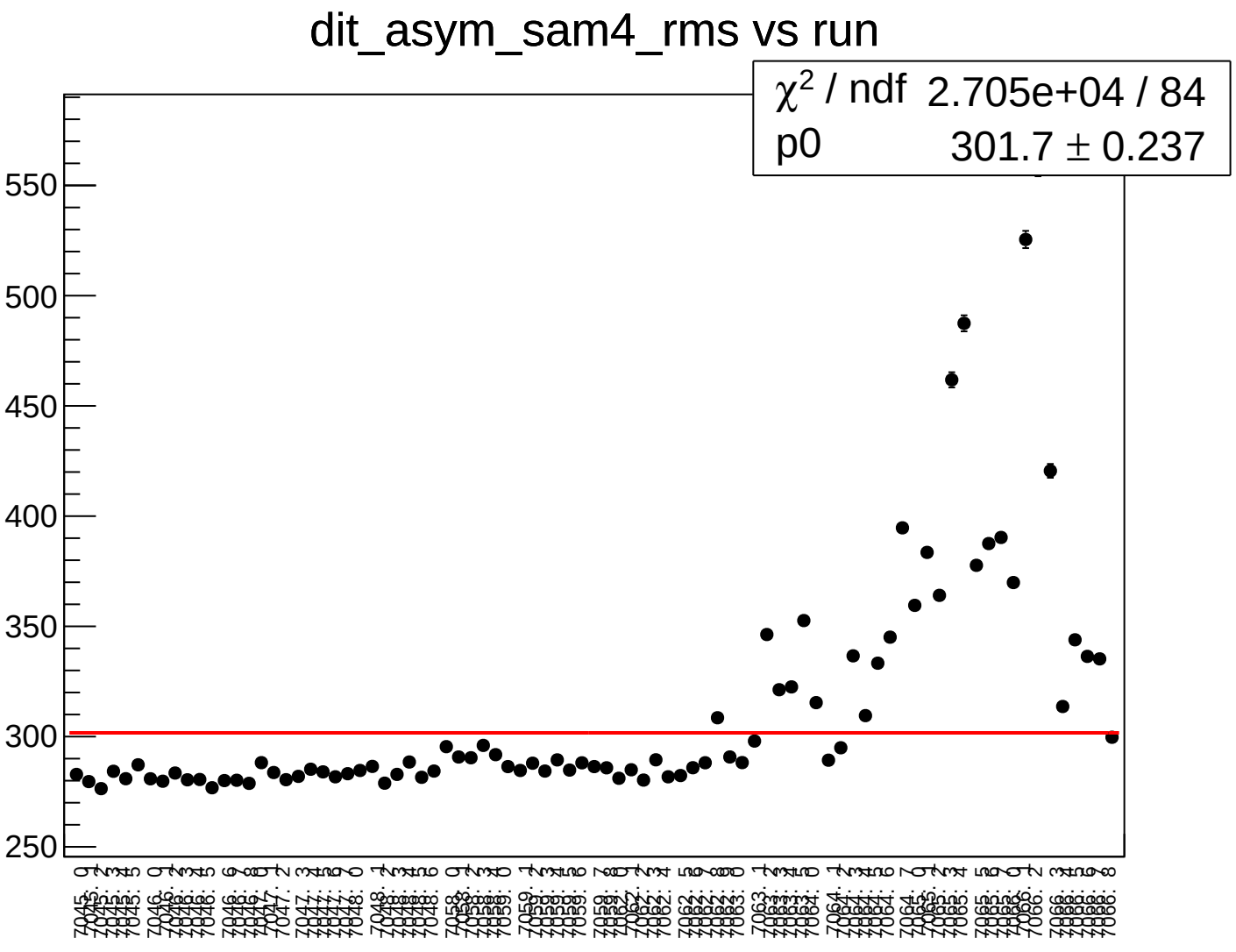

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 80.66 / 84
p0 −4350 ± 2441
pull
Entries 85
Mean 696.9
Std Dev 0

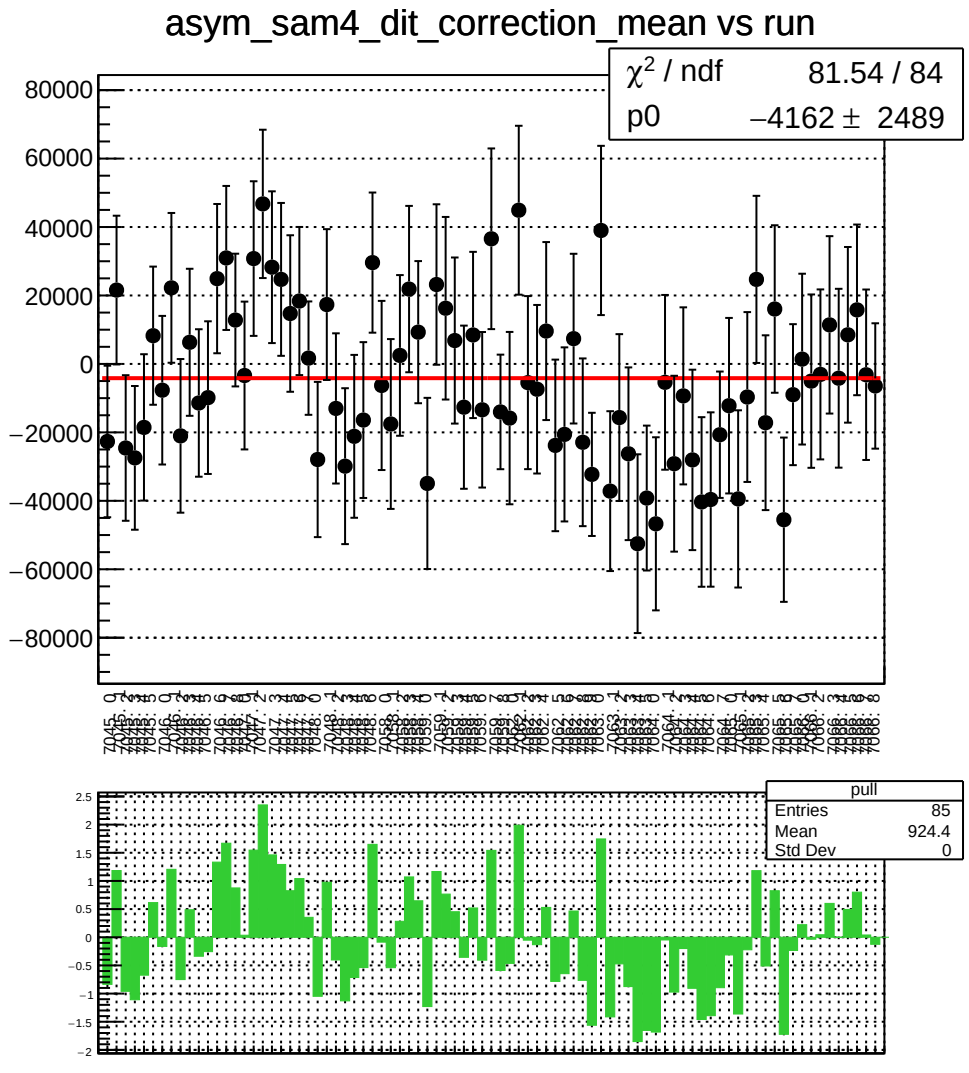

pull1D
Entries 85
Mean −0.009606
Std Dev 0.9741

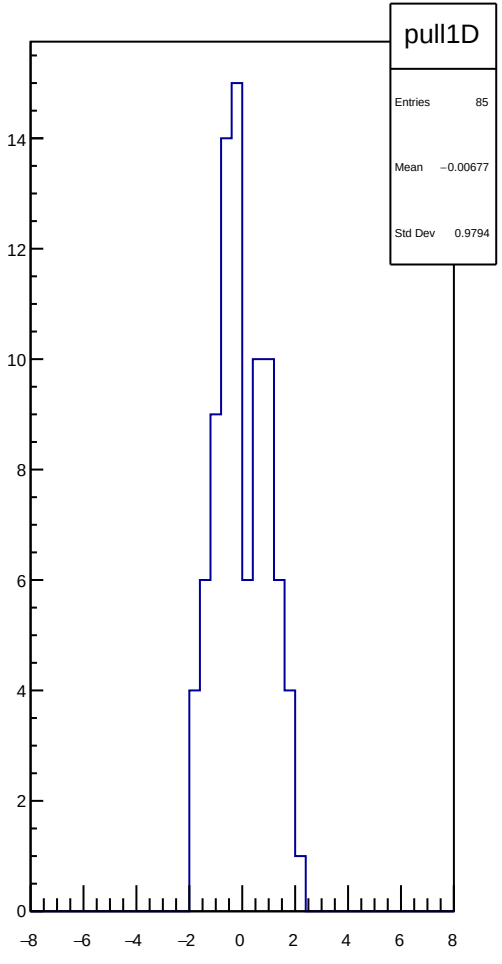

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 9075 / 84
p0 2209 ± 1.726
2500
2400
2300
2200
2100
2000
1900

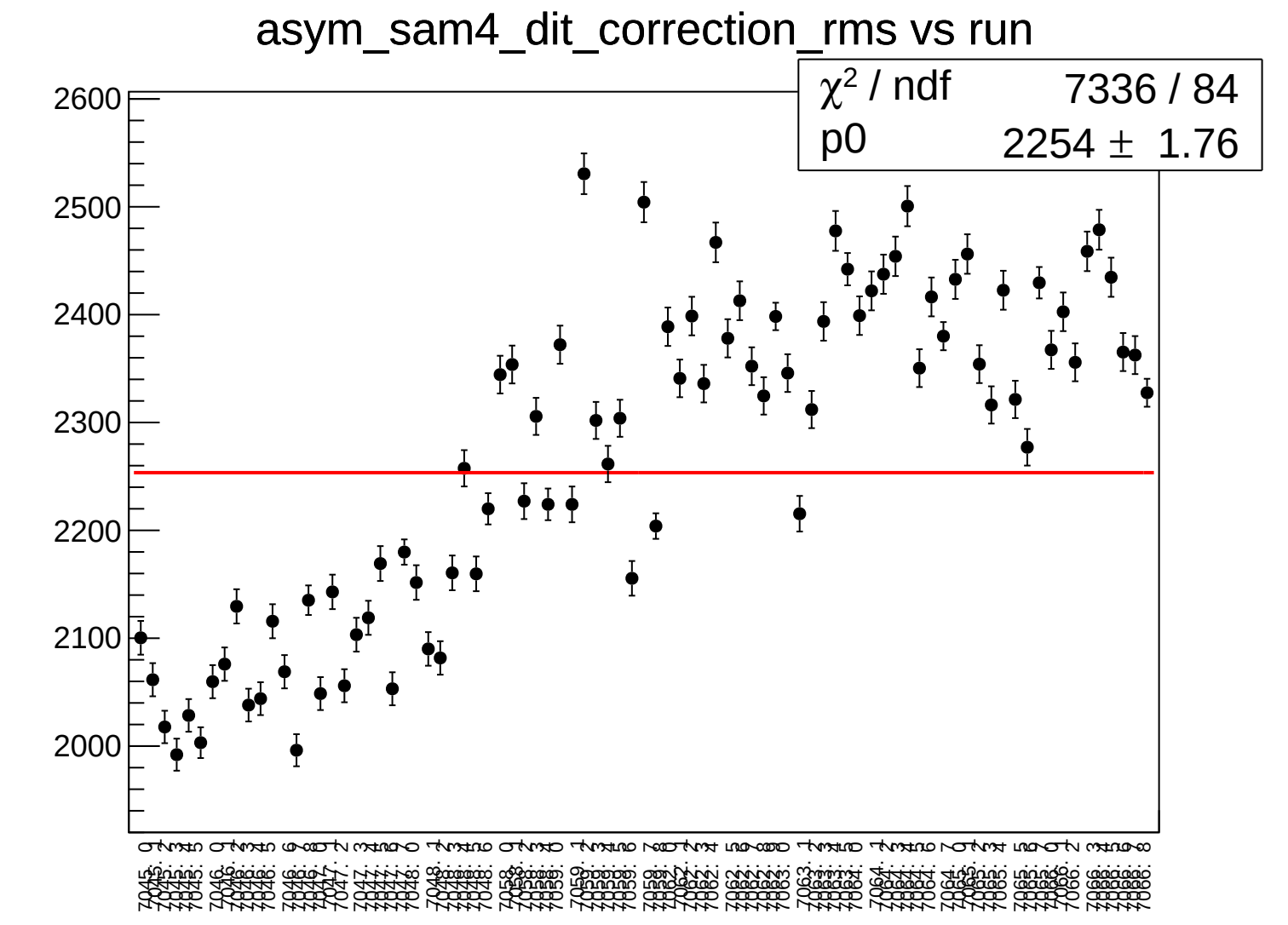

dit_asym_sam4_mean vs run
χ^2 / ndf 79.29 / 84
p0 776.2 ± 335.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 67.32
Std Dev 48.24
2
1
0
−1
−2

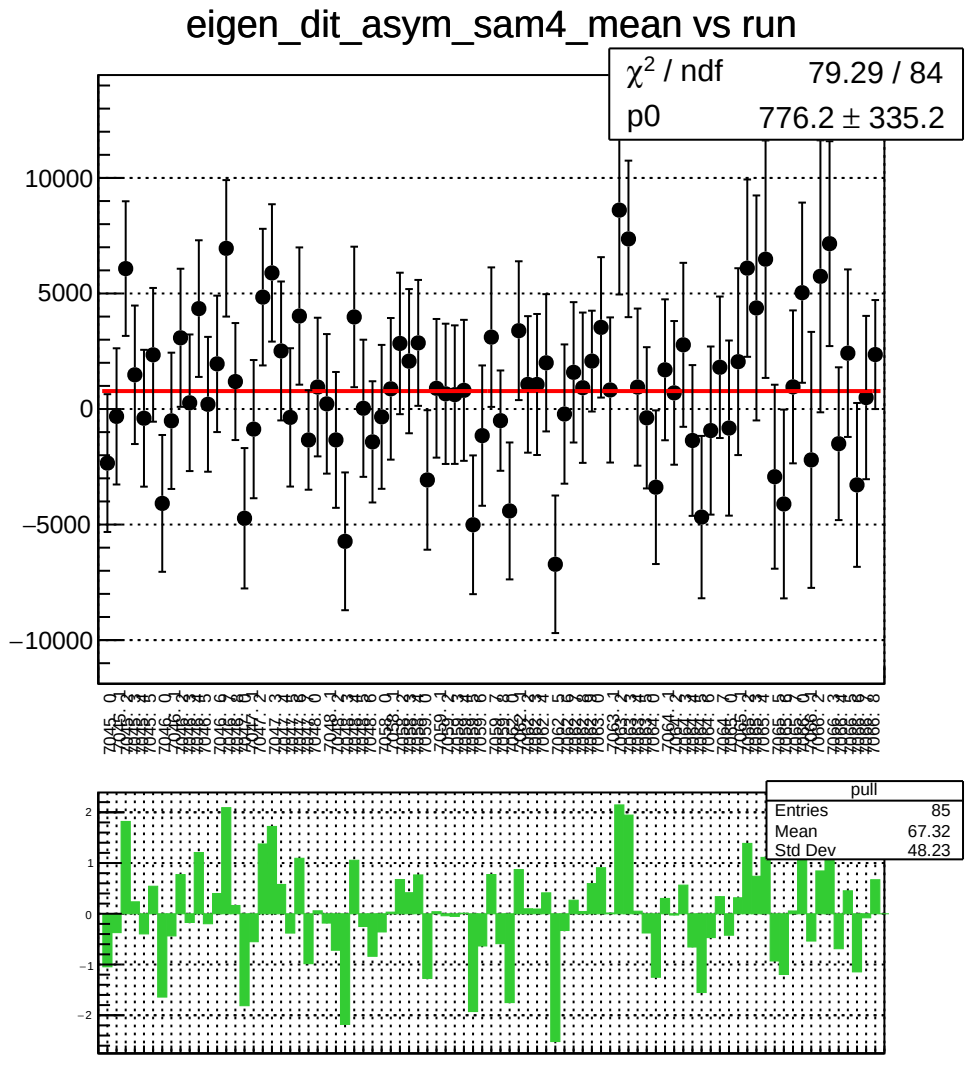

pull1D
Entries 85
Mean 0.01891
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

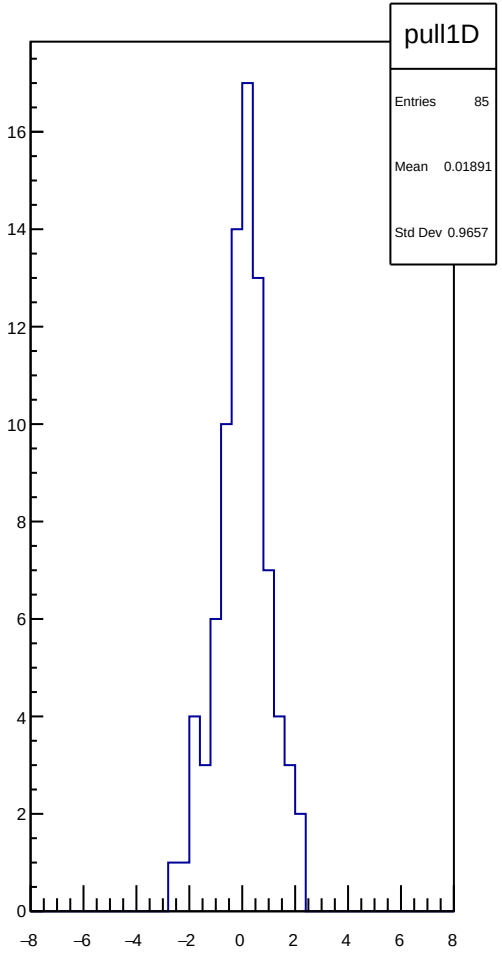

dit_asym_sam4_rms vs run
χ^2 / ndf 2.705e+04 / 84
p0 301.7 ± 0.237
550
500
450
400
350
300
250

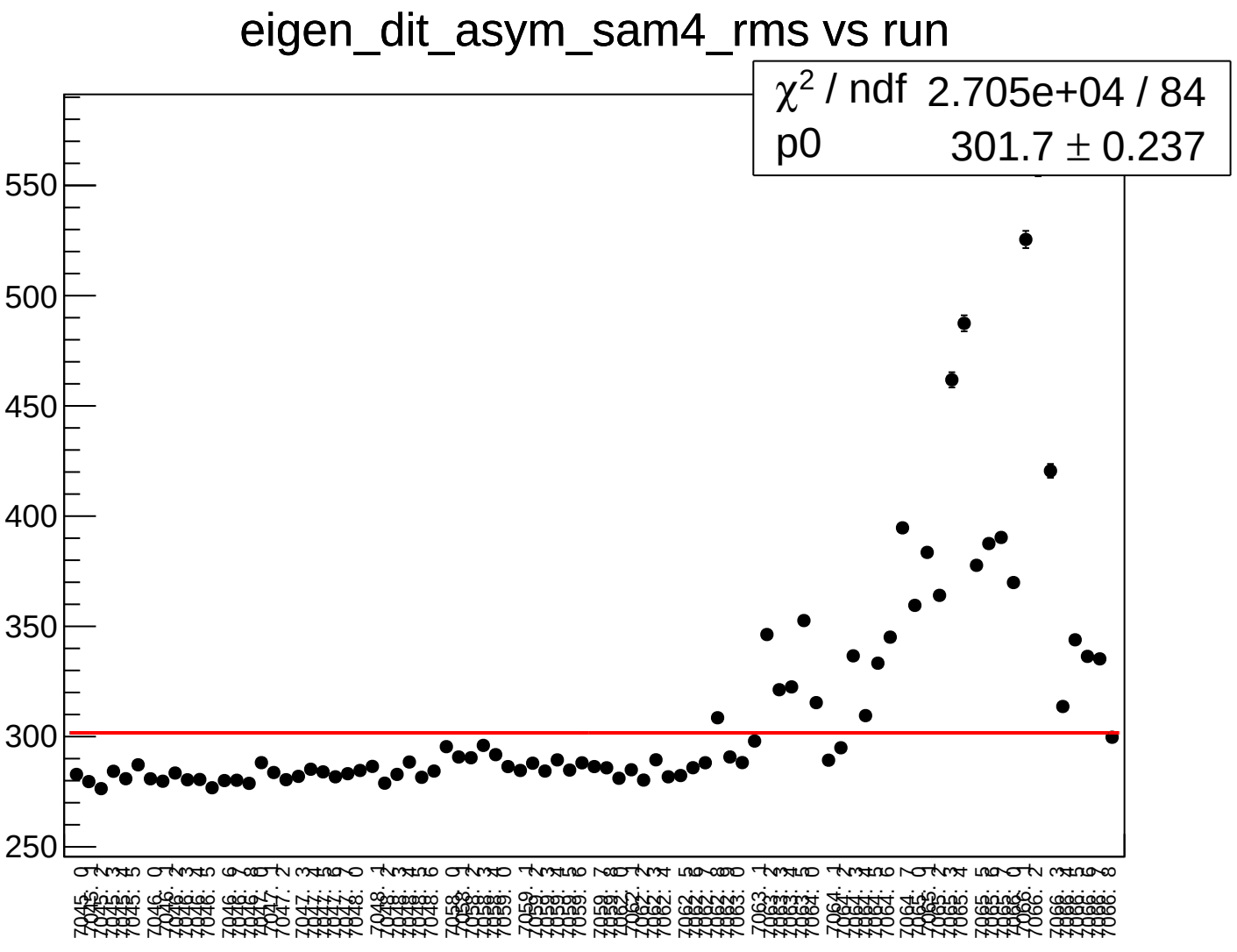

asym_sam4_dit_correction_mean vs run
χ² / ndf 81.54 / 84
p0 −4162 ± 2489
pull
Entries 85
Mean 924.4
Std Dev 0

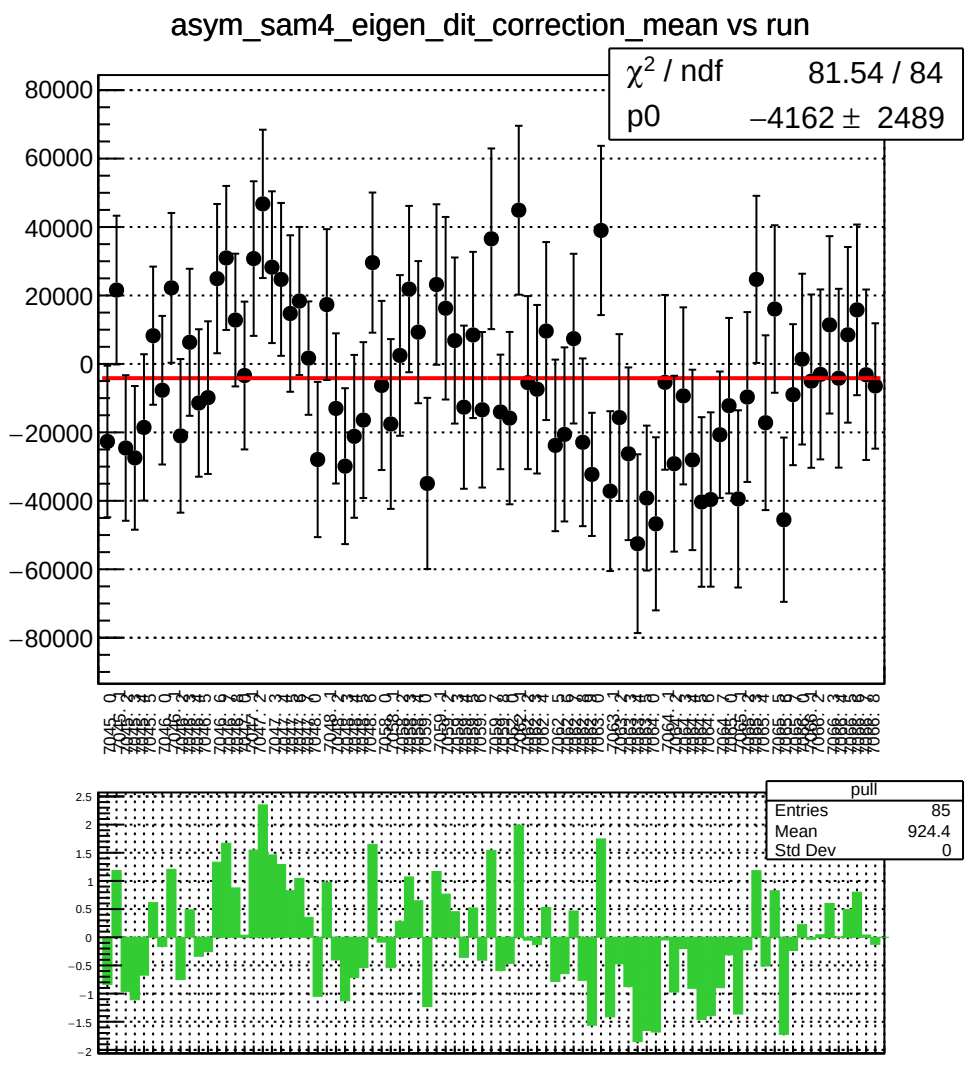

pull1D
Entries 85
Mean −0.00677
Std Dev 0.9794

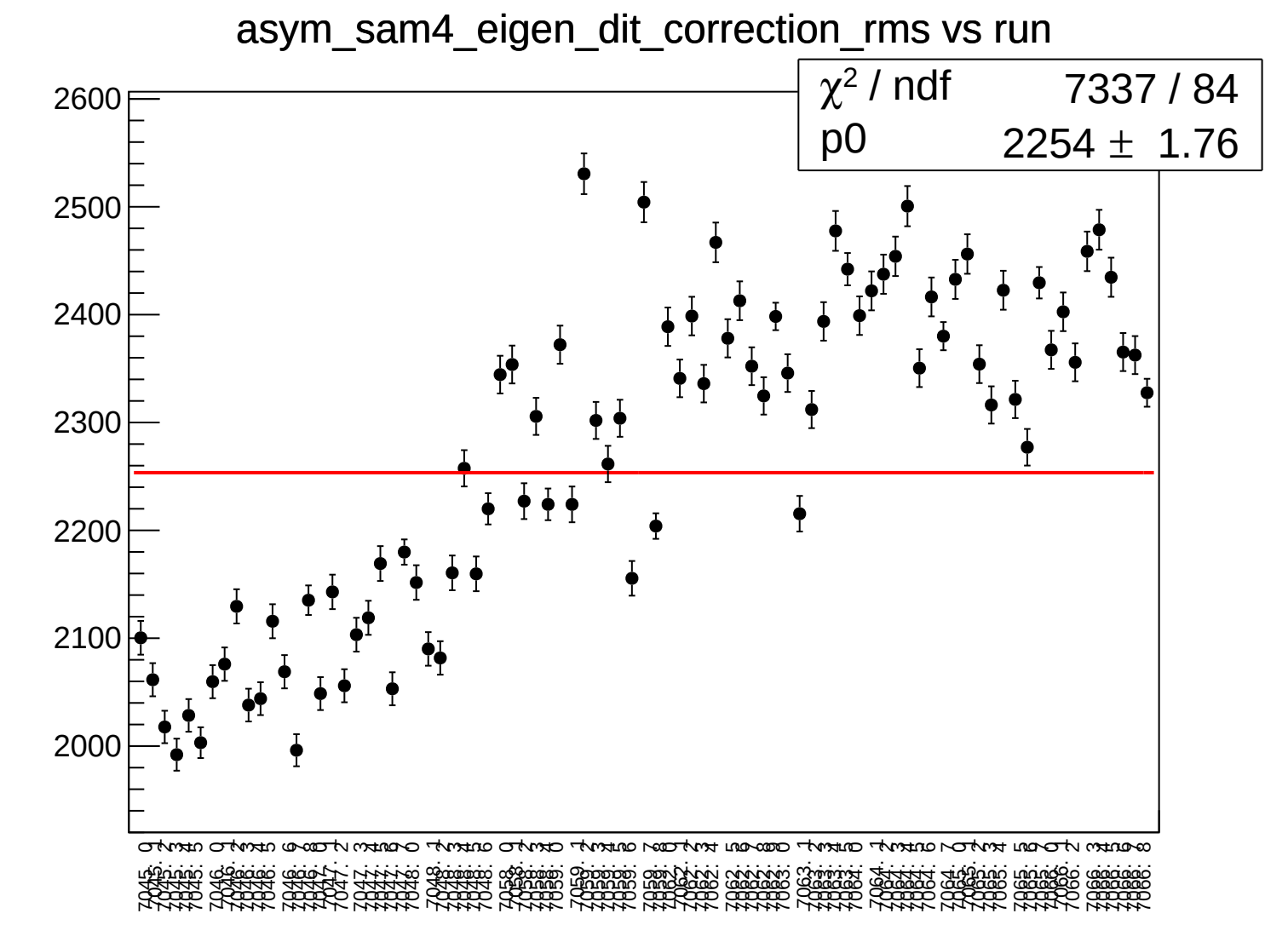

asym_sam4_dit_correction_rms vs run
χ² / ndf 7336 / 84
p0 2254 ± 1.76
2600
2500
2400
2300
2200
2100
2000

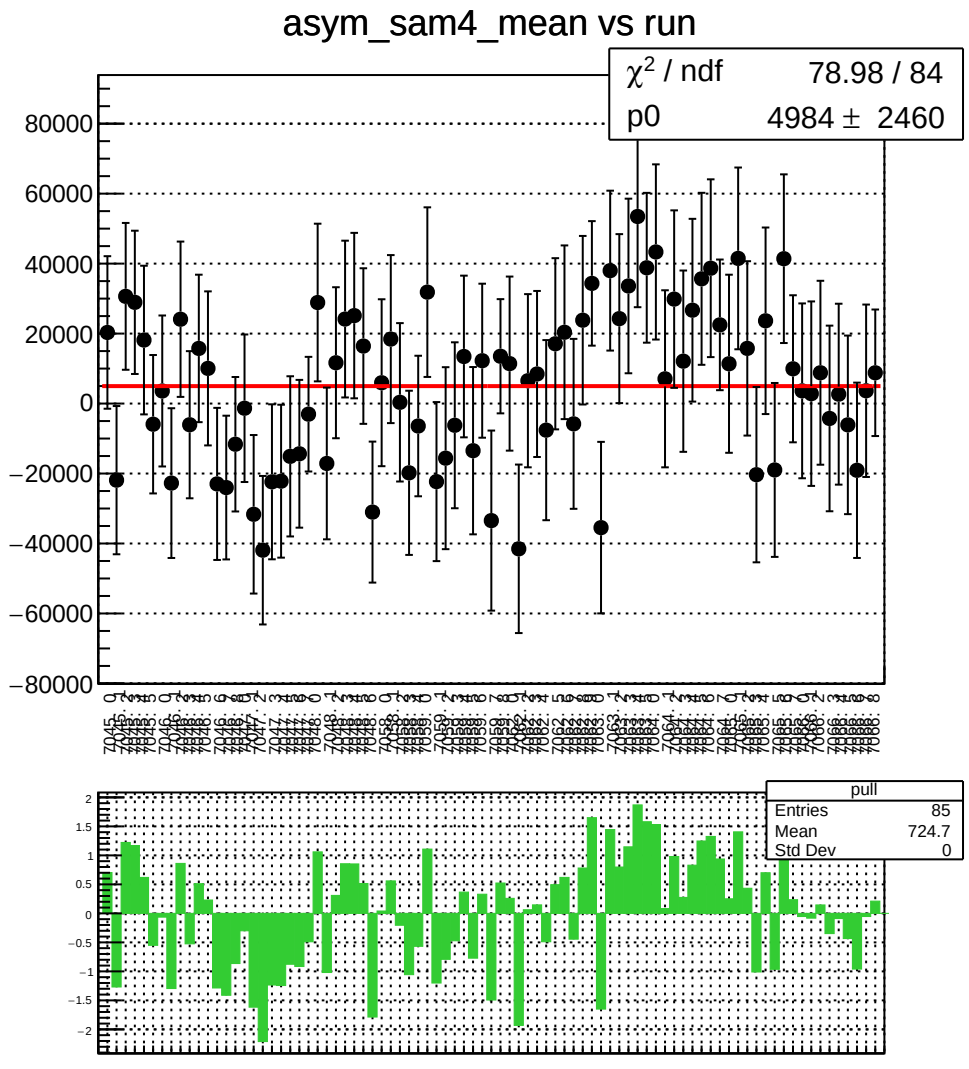

eigen_dit_asym_sam4_mean vs run
χ² / ndf 79.29 / 84
p0 776.2 ± 335.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 67.32
Std Dev 48.23
2
1
0
−1
−2

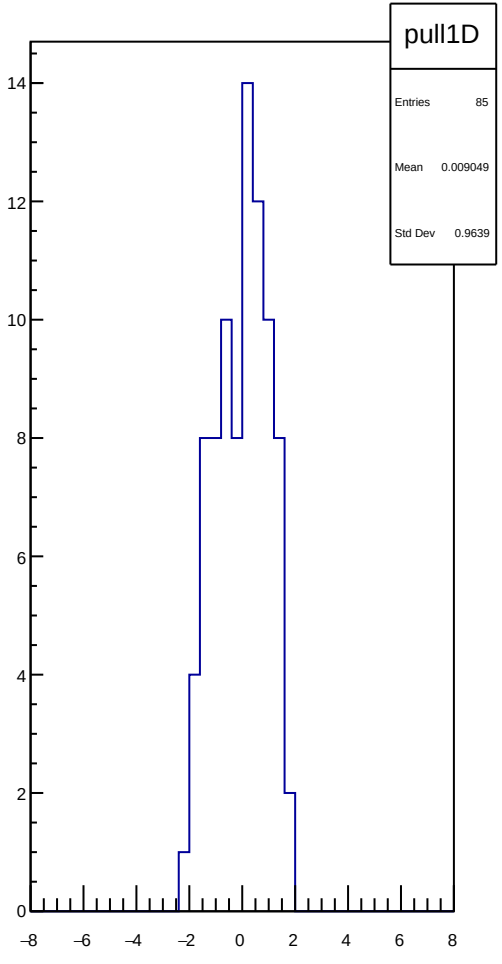

pull1D
Entries 85
Mean 0.01891
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

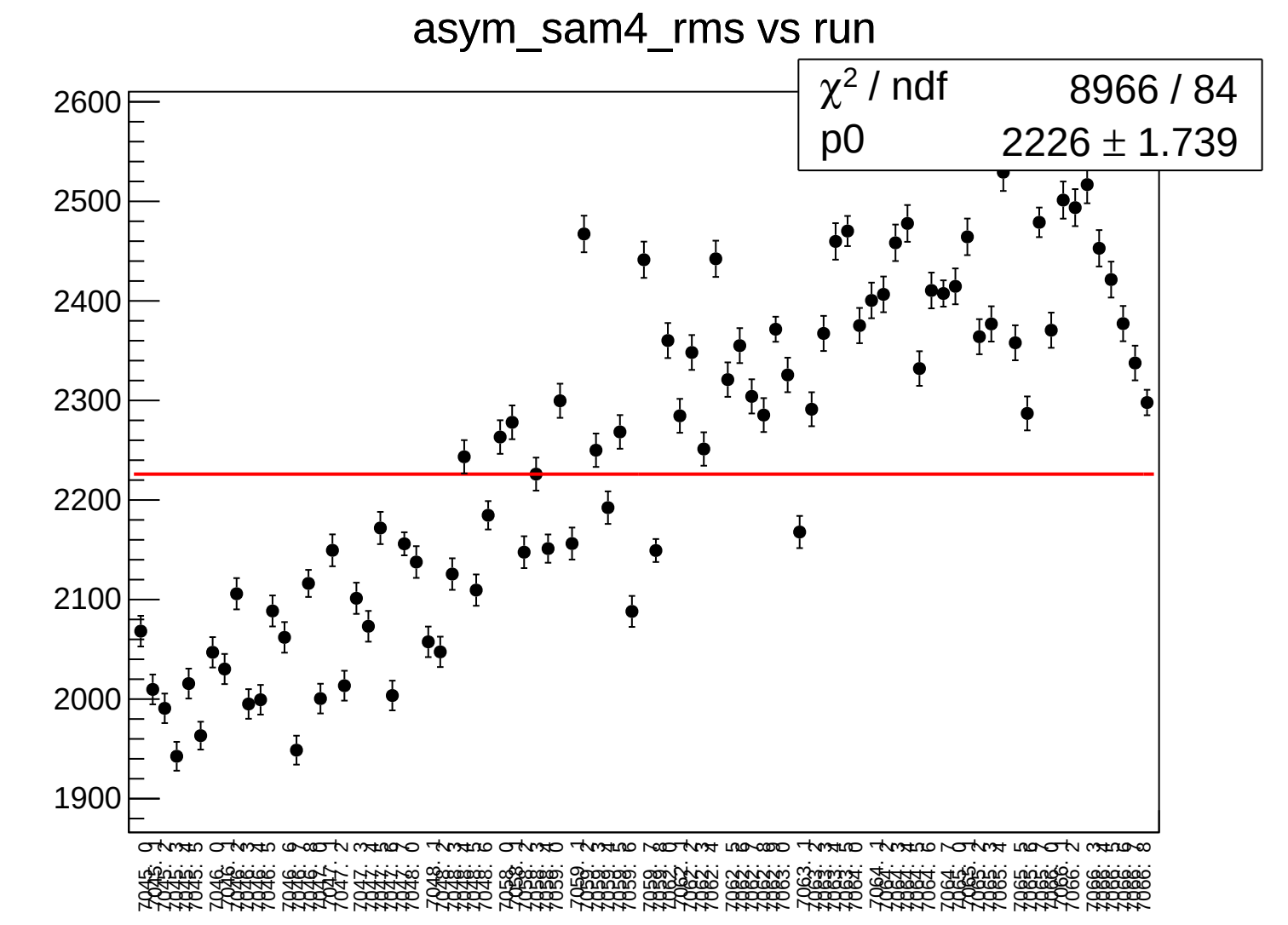

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2.705e+04 / 84
p0 301.7 ± 0.237
550
500
450
400
350
300
250

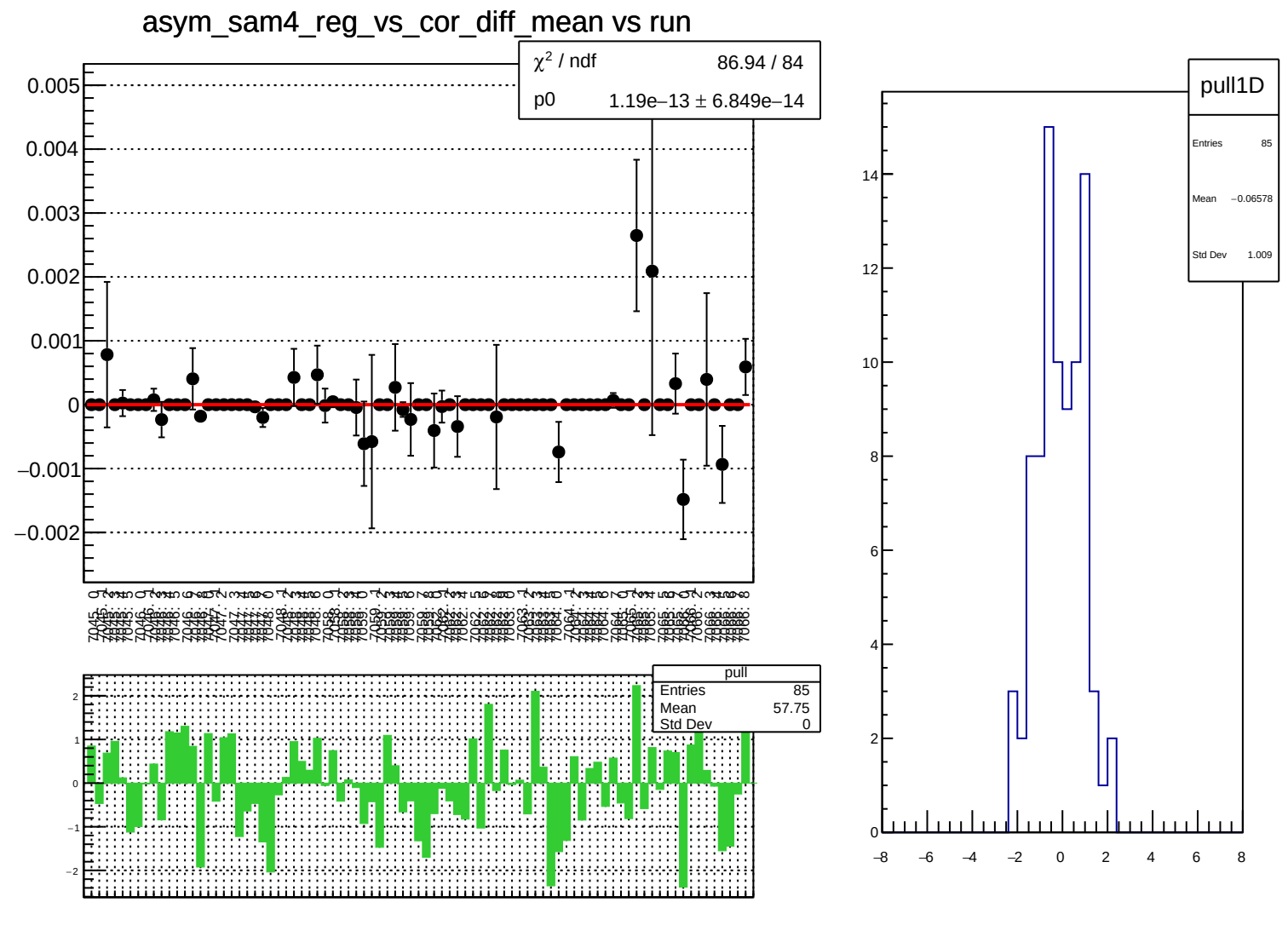

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 81.54 / 84
p0 −4162 ± 2489
pull
Entries 85
Mean 924.4
Std Dev 0
pull1D
Entries 85
Mean −0.00677
Std Dev 0.9794

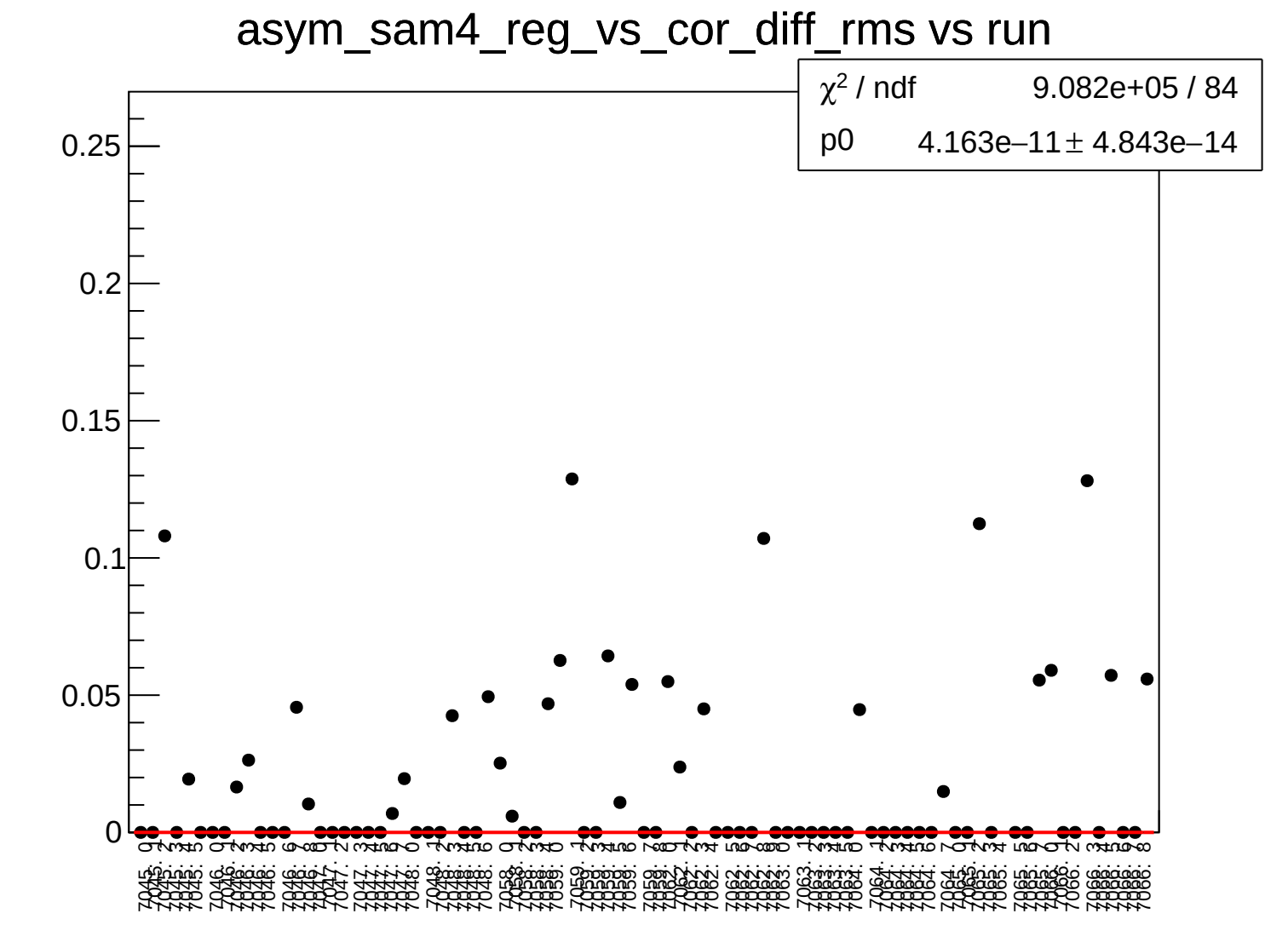

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 7337 / 84
p0 2254 ± 1.76
2600
2500
2400
2300
2200
2100
2000

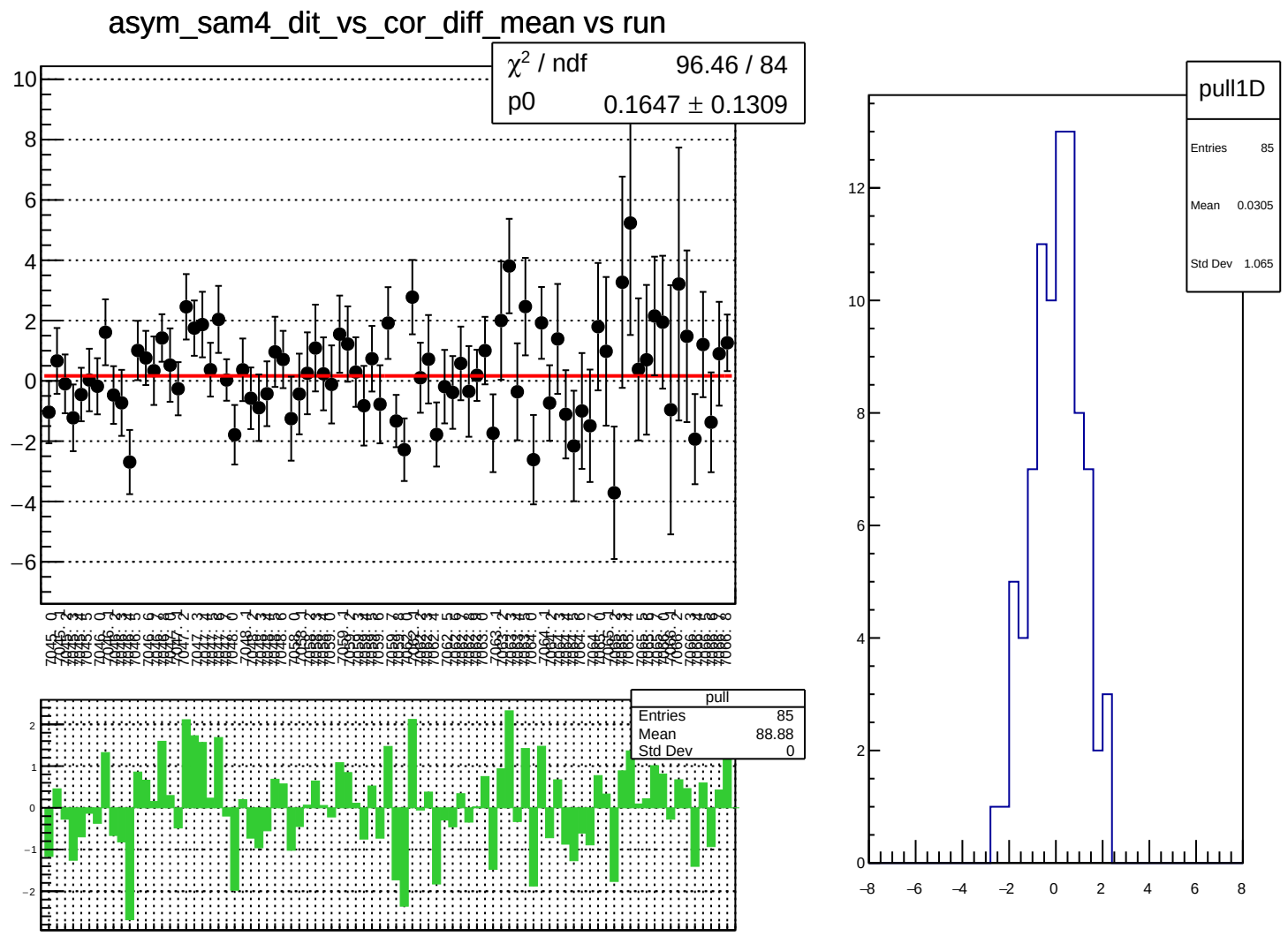

asym_sam4_mean vs run
χ² / ndf 78.98 / 84
p0 4984 ± 2460
pull
Entries 85
Mean 724.7
Std Dev 0

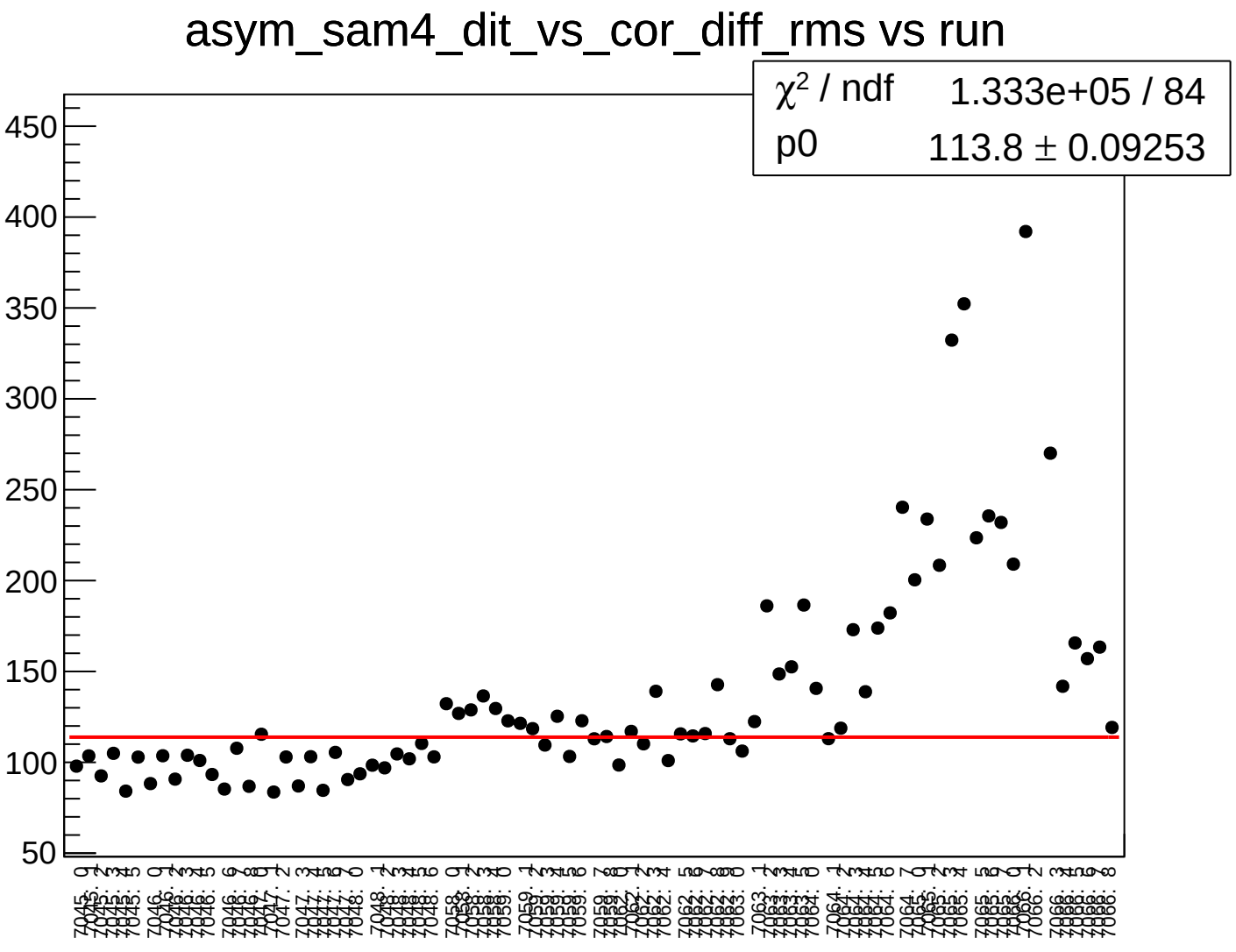

pull1D
Entries 85
Mean 0.009049
Std Dev 0.9639


asym_sam4_rms vs run
χ² / ndf 8966 / 84
p0 2226 ± 1.739
2600
2500
2400
2300
2200
2100
2000
1900

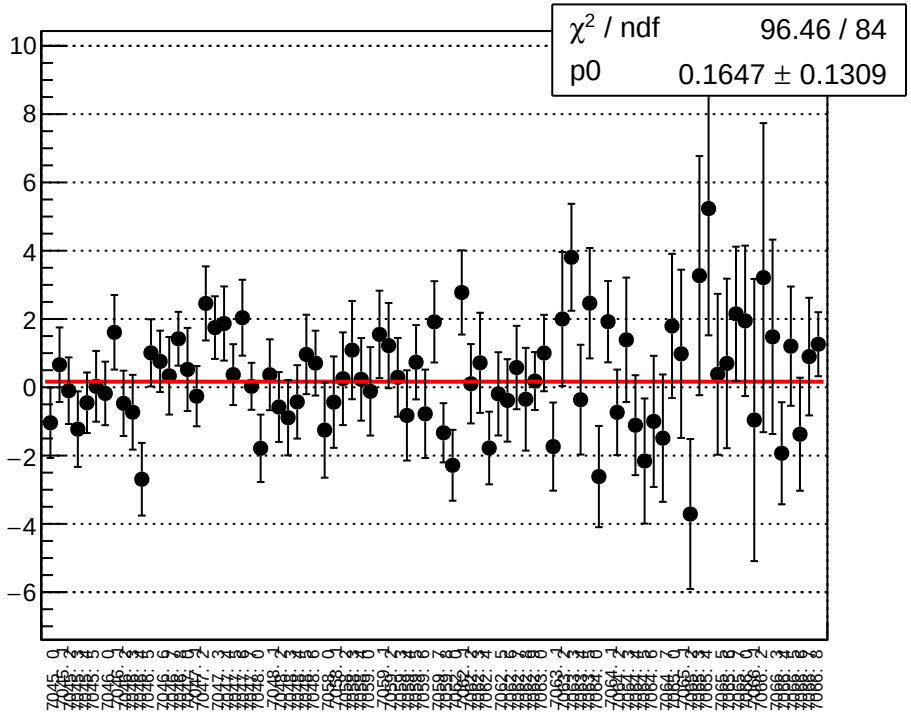

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 86.94 / 84
p0 1.19e−13 ± 6.849e−14
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 85
Mean 57.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.06578
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

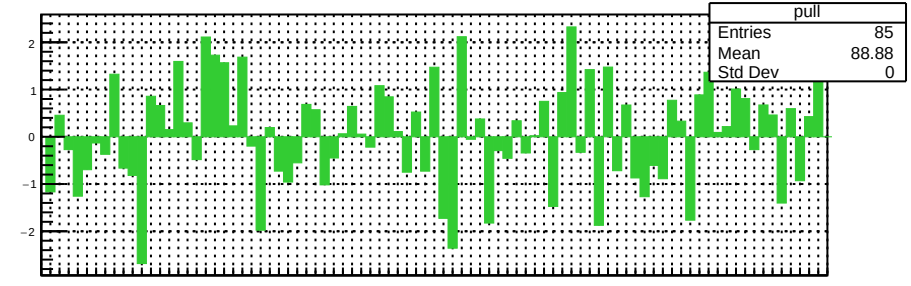

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.082e+05 / 84
p0 4.163e−11 ± 4.843e−14
0.25
0.2
0.15
0.1
0.05
0

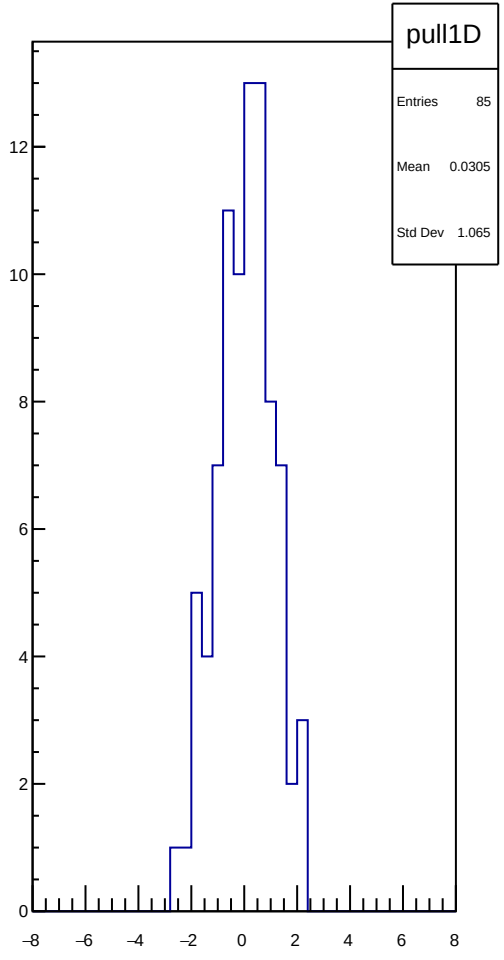

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 96.46 / 84
p0 0.1647 ± 0.1309
pull
Entries 85
Mean 88.88
Std Dev 0
pull1D
Entries 85
Mean 0.0305
Std Dev 1.065

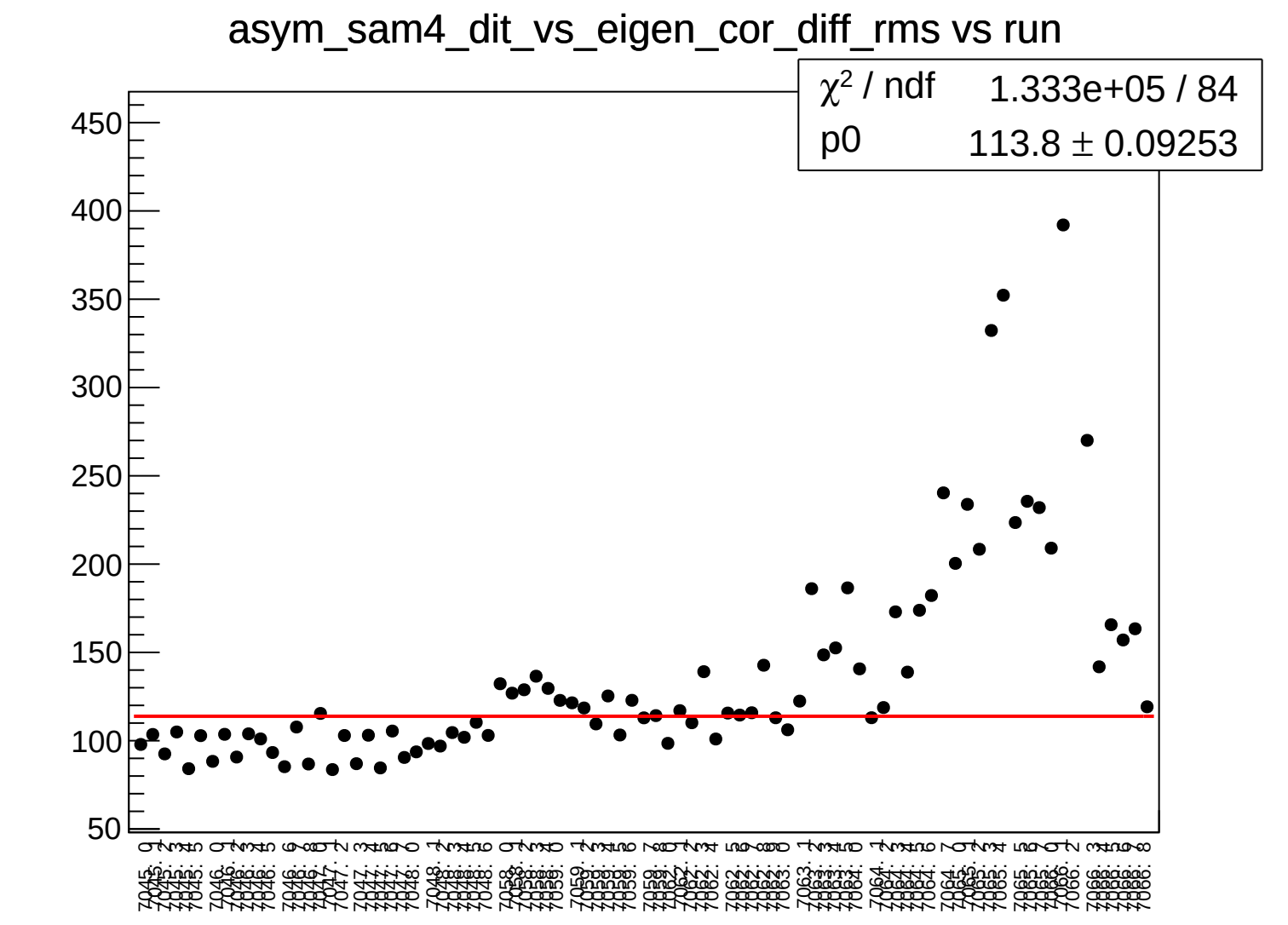

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.333e+05 / 84
p0 113.8 ± 0.09253
450
400
350
300
250
200
150
100
50

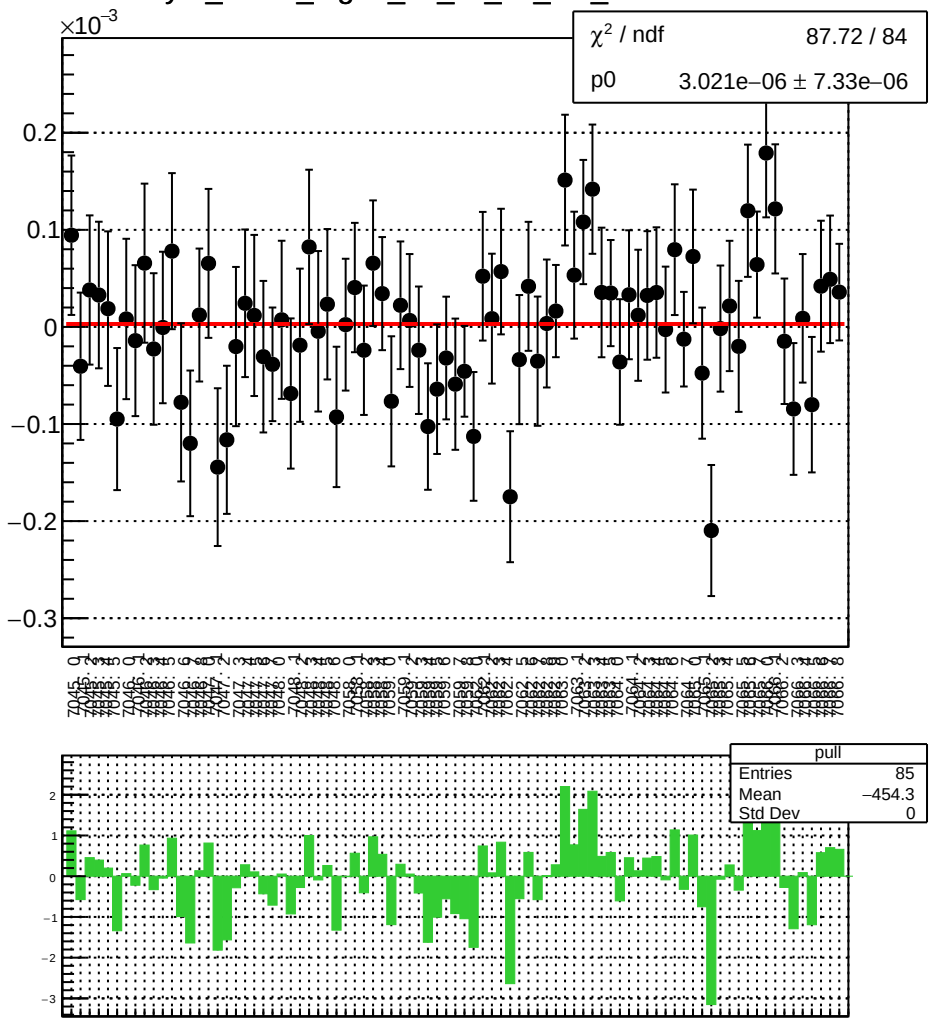
asym_sam4_dit_vs_eigen_cor_diff_mean vs run

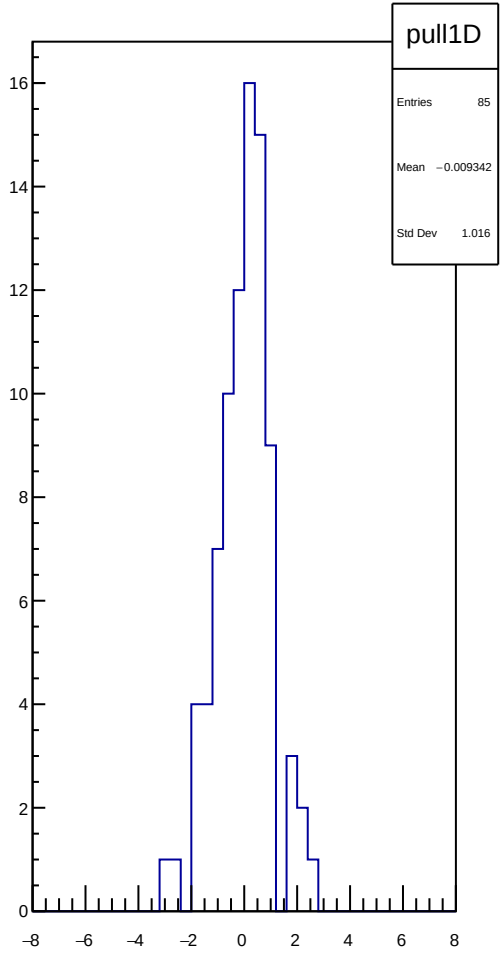


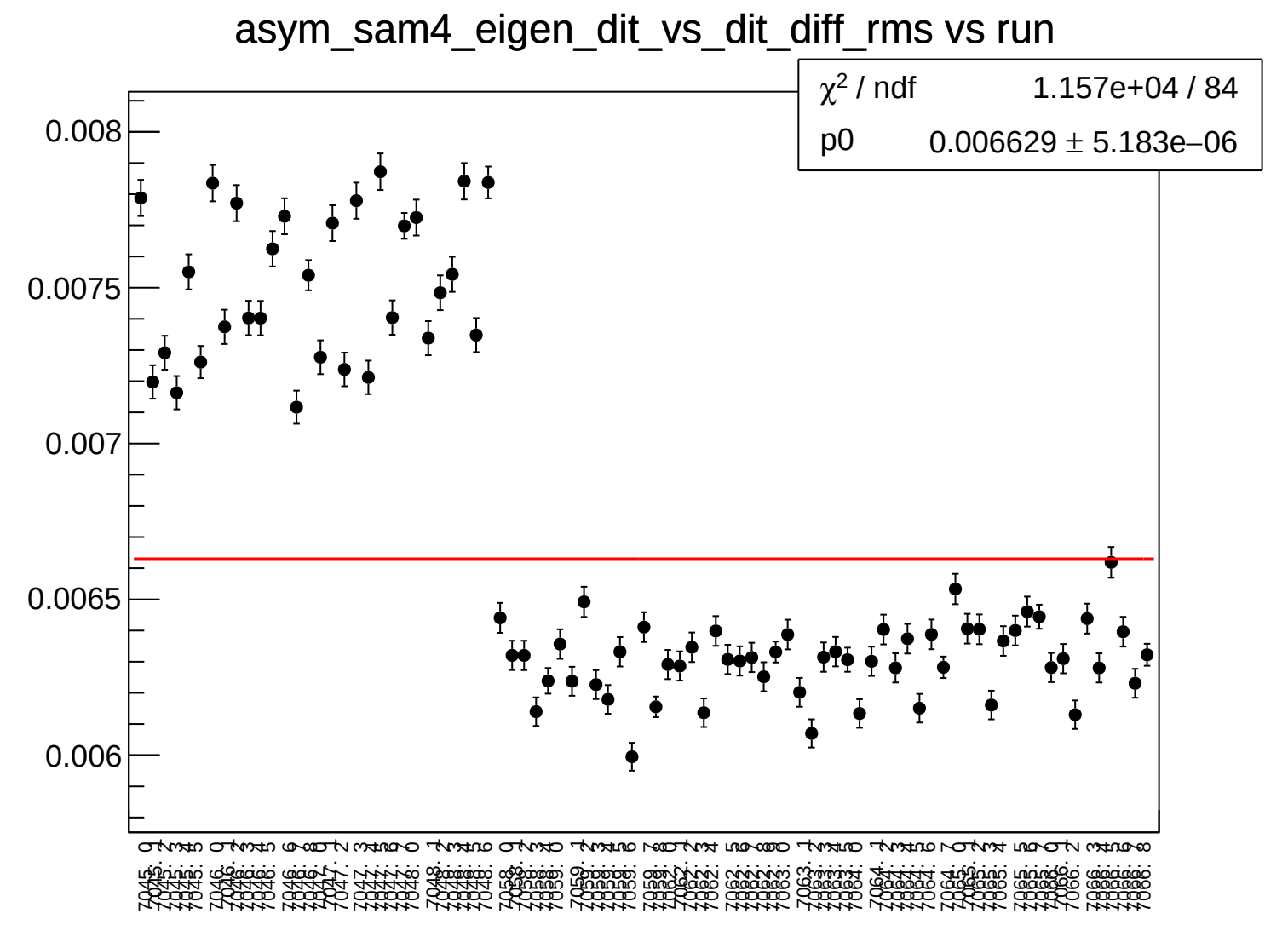


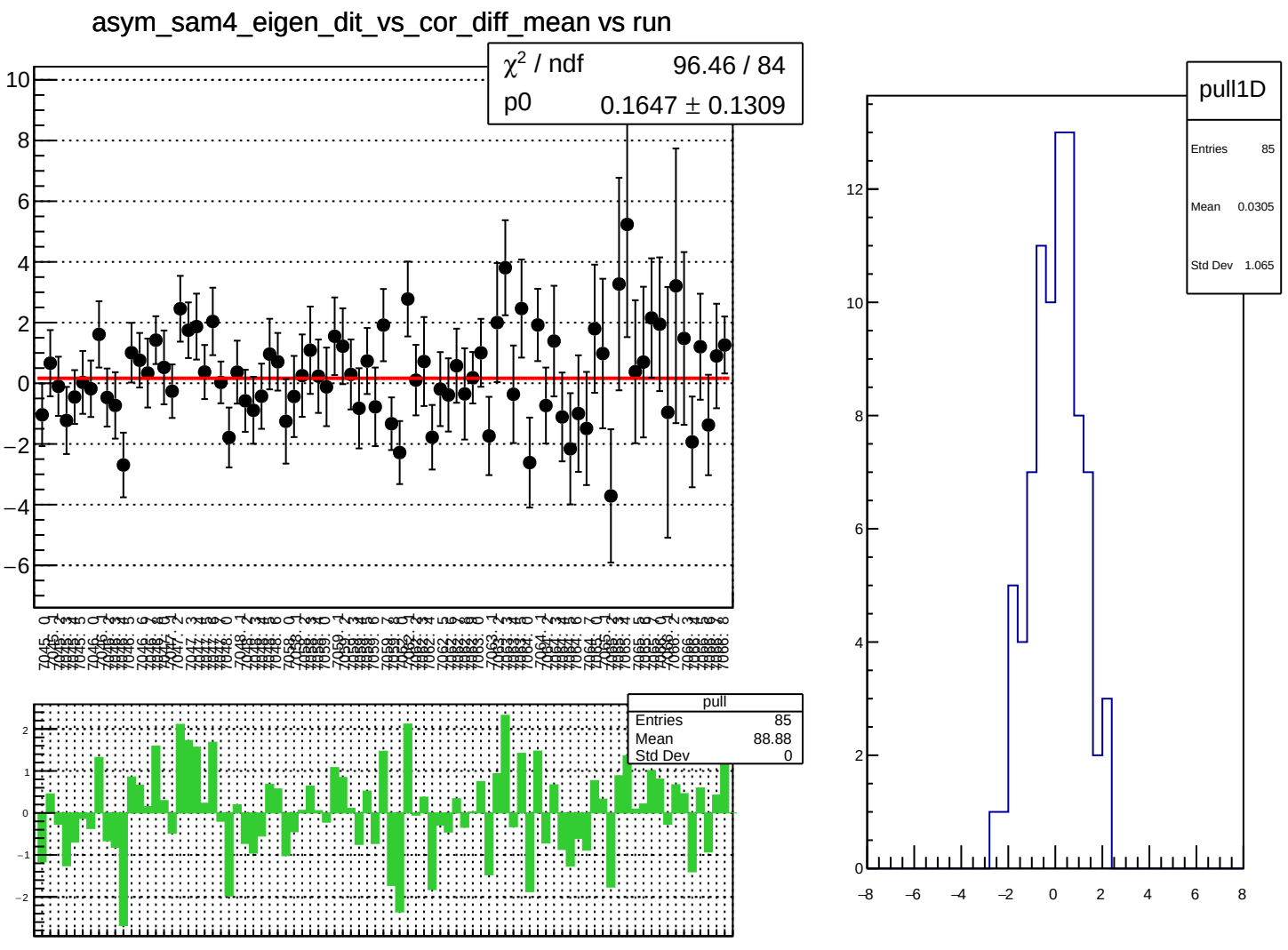


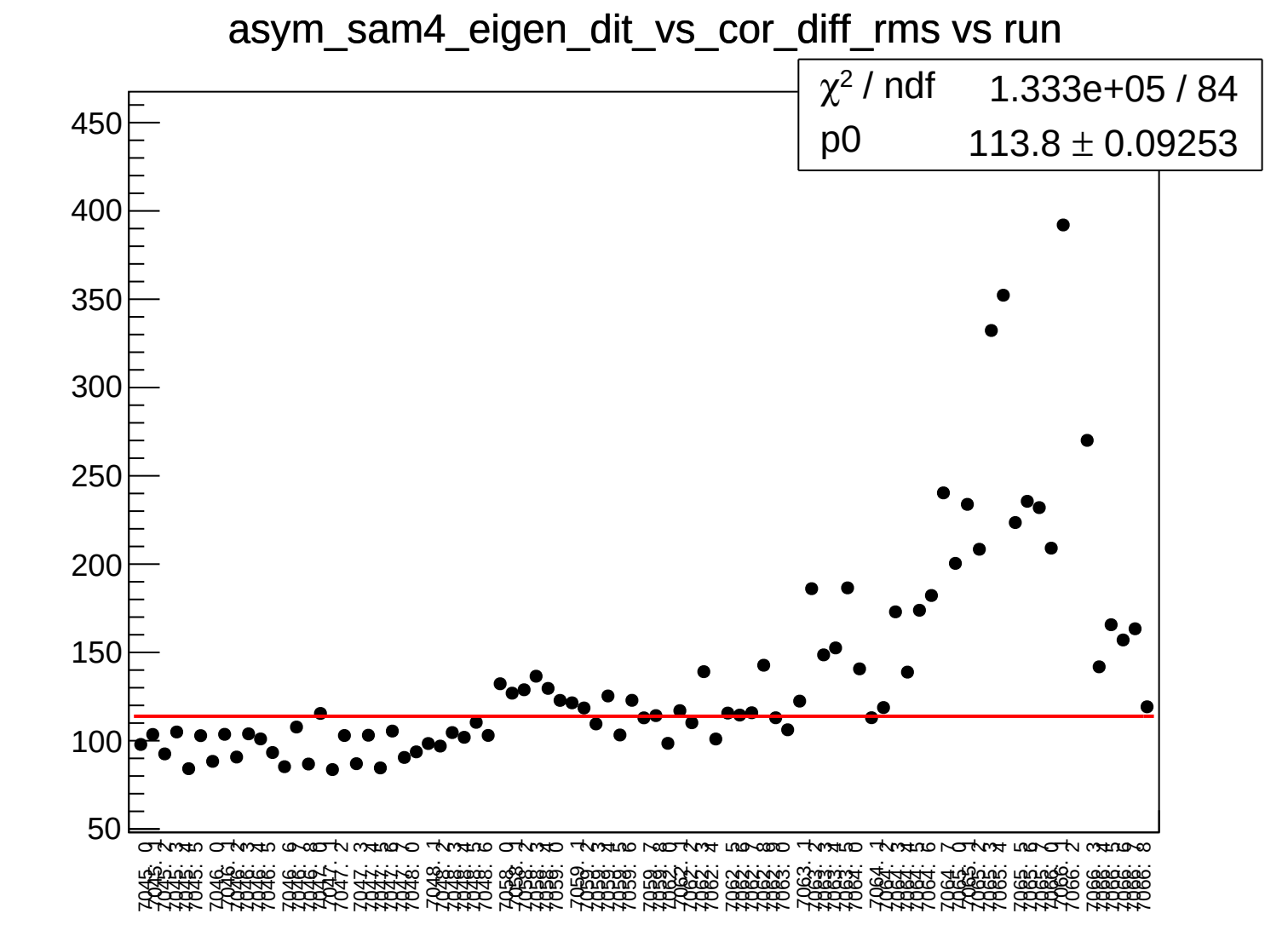

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+05 / 84
p0 113.8 ± 0.09253
450
400
350
300
250
200
150
100
50

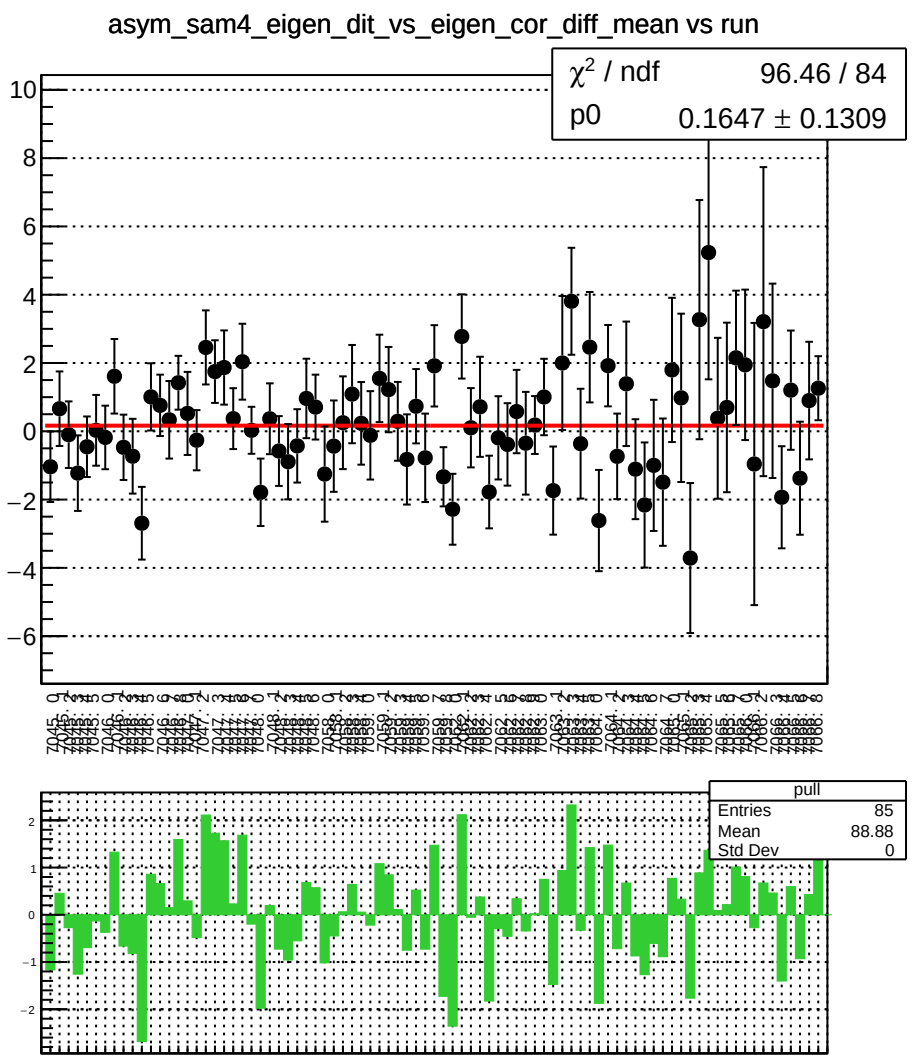

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.72 / 84
p0 3.021e−06 ± 7.33e−06
pull
Entries 85
Mean −454.3
Std Dev 0

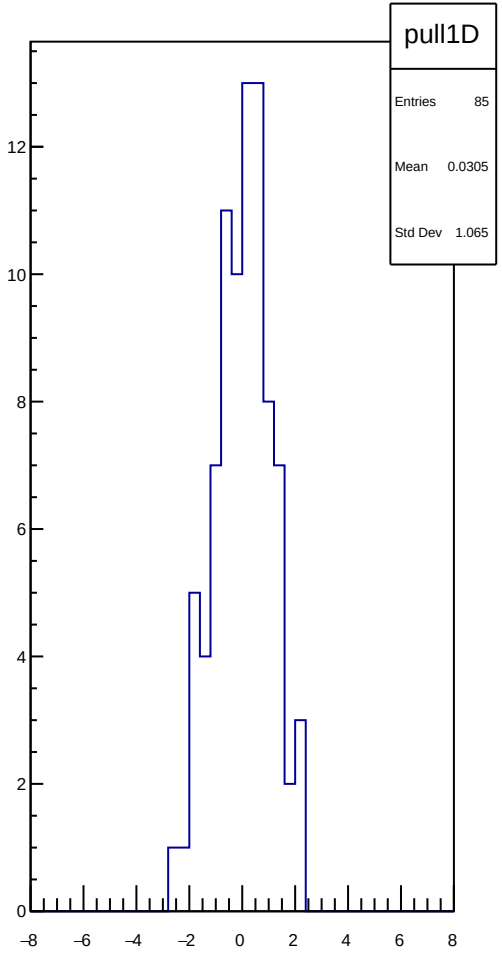

pull1D
Entries 85
Mean −0.009342
Std Dev 1.016

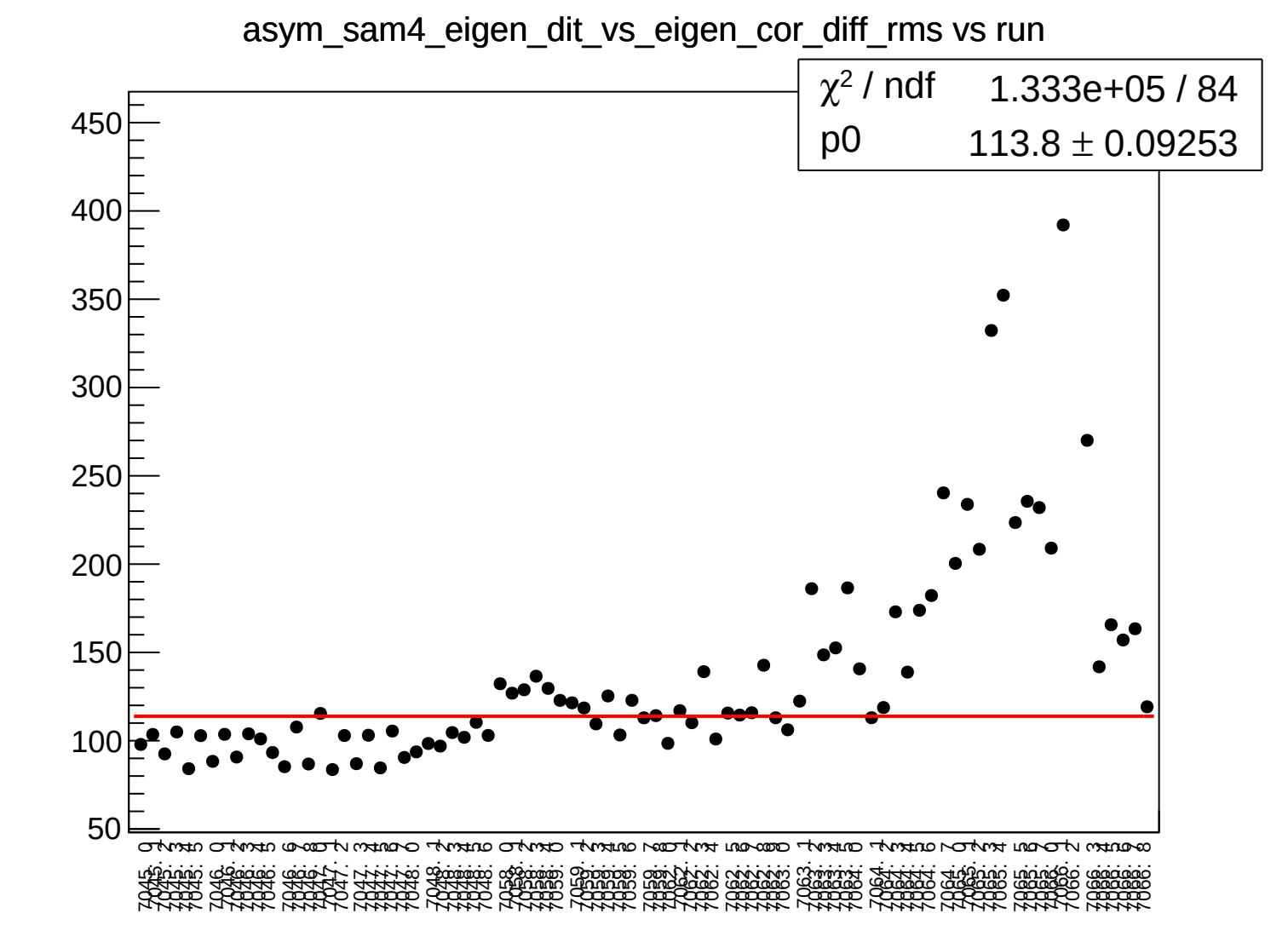

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.157e+04 / 84
p0 0.006629 ± 5.183e−06
0.008
0.0075
0.007
0.0065
0.006

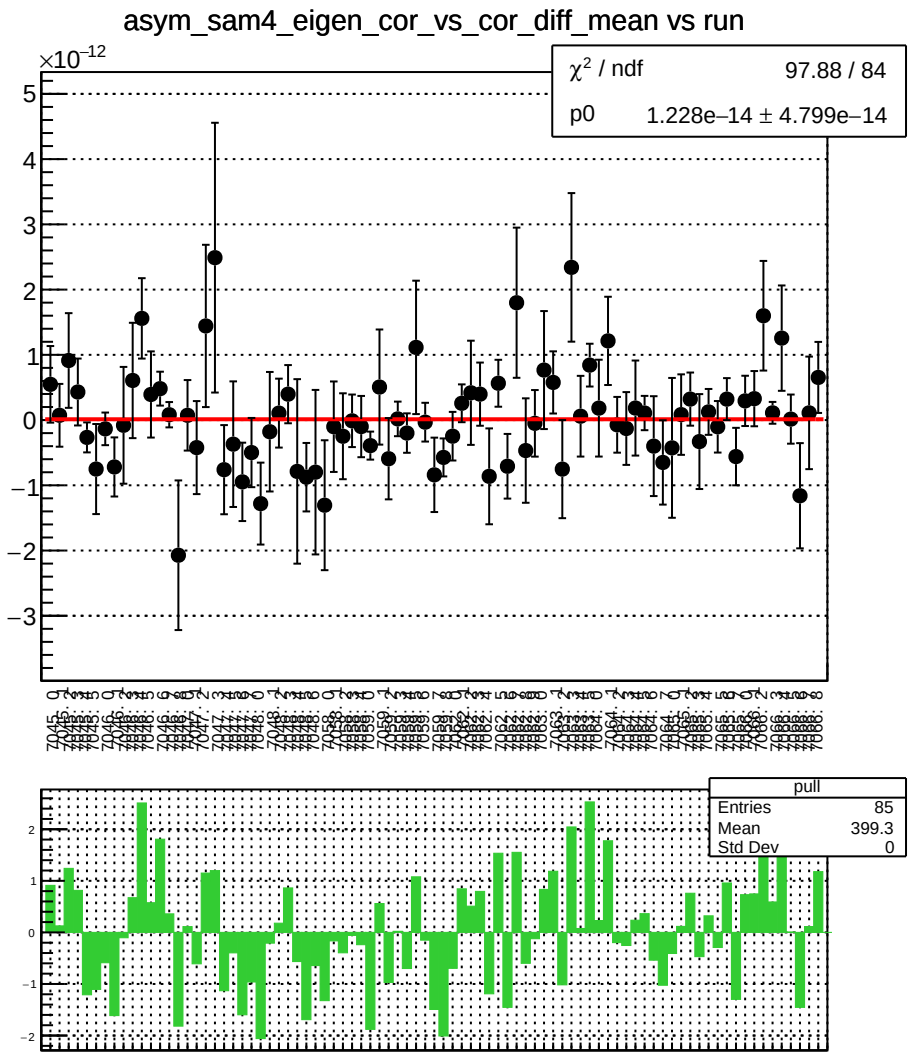

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.46 / 84
p0 0.1647 ± 0.1309
pull
Entries 85
Mean 88.88
Std Dev 0
pull1D
Entries 85
Mean 0.0305
Std Dev 1.065

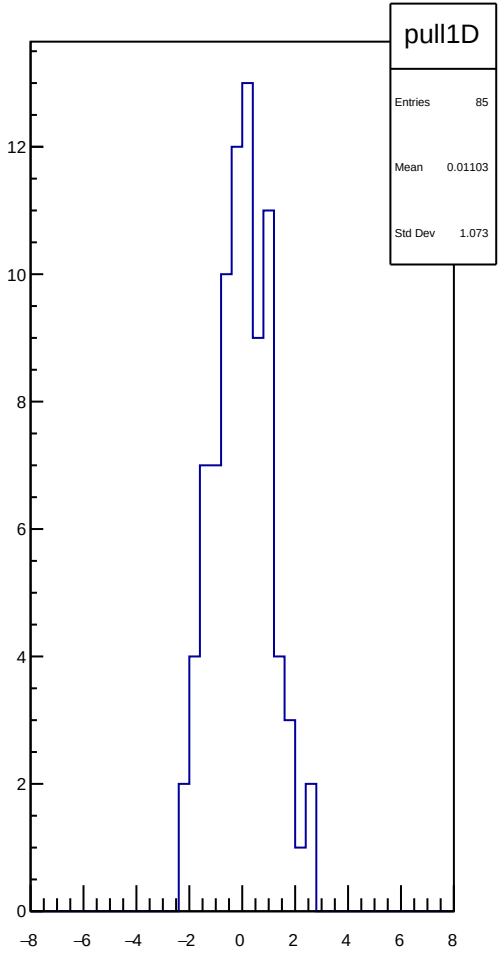

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.333e+05 / 84
p0 113.8 ± 0.09253
450
400
350
300
250
200
150
100
50

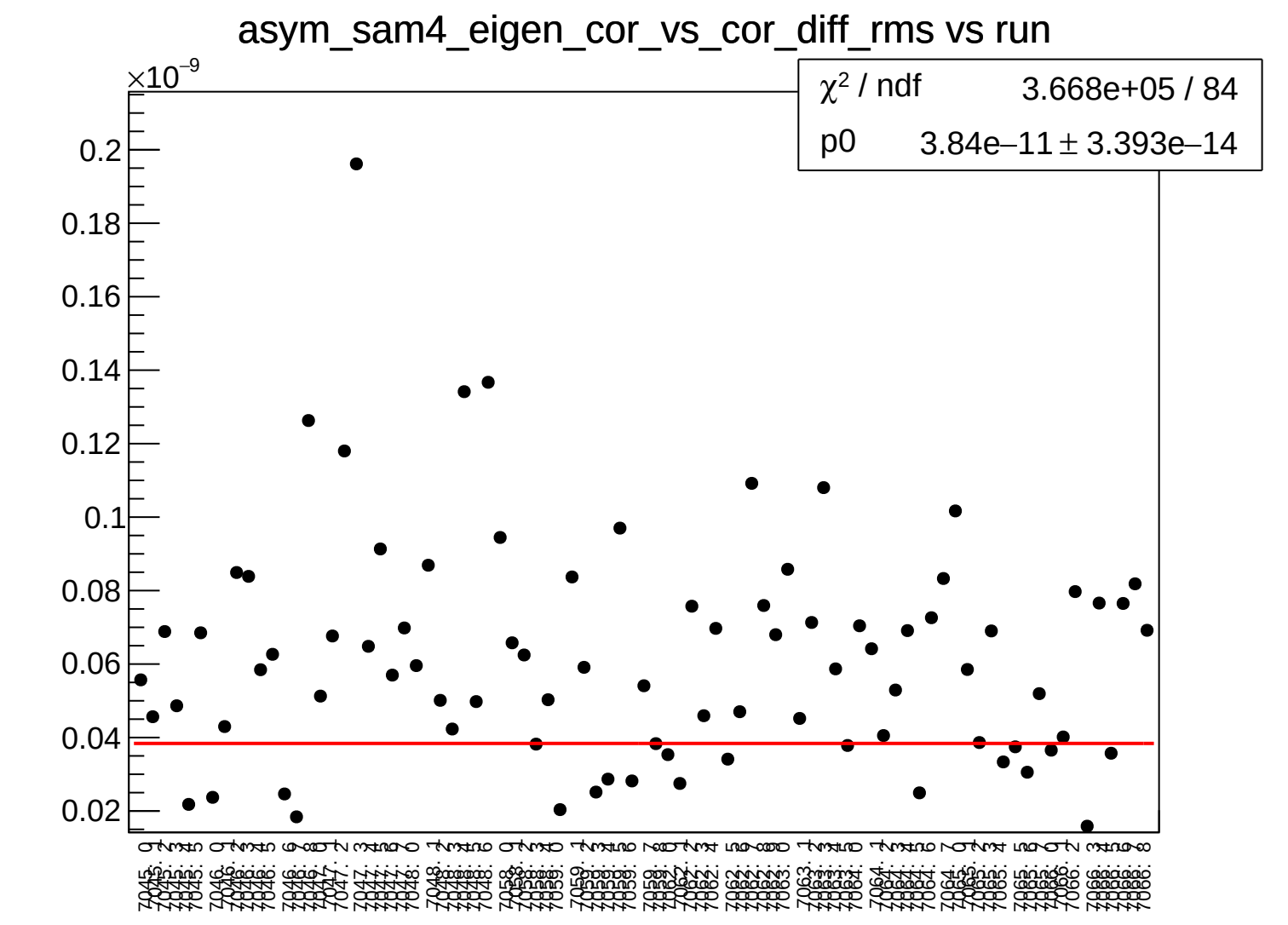

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.46 / 84
p0 0.1647 ± 0.1309
pull
Entries 85
Mean 88.88
Std Dev 0

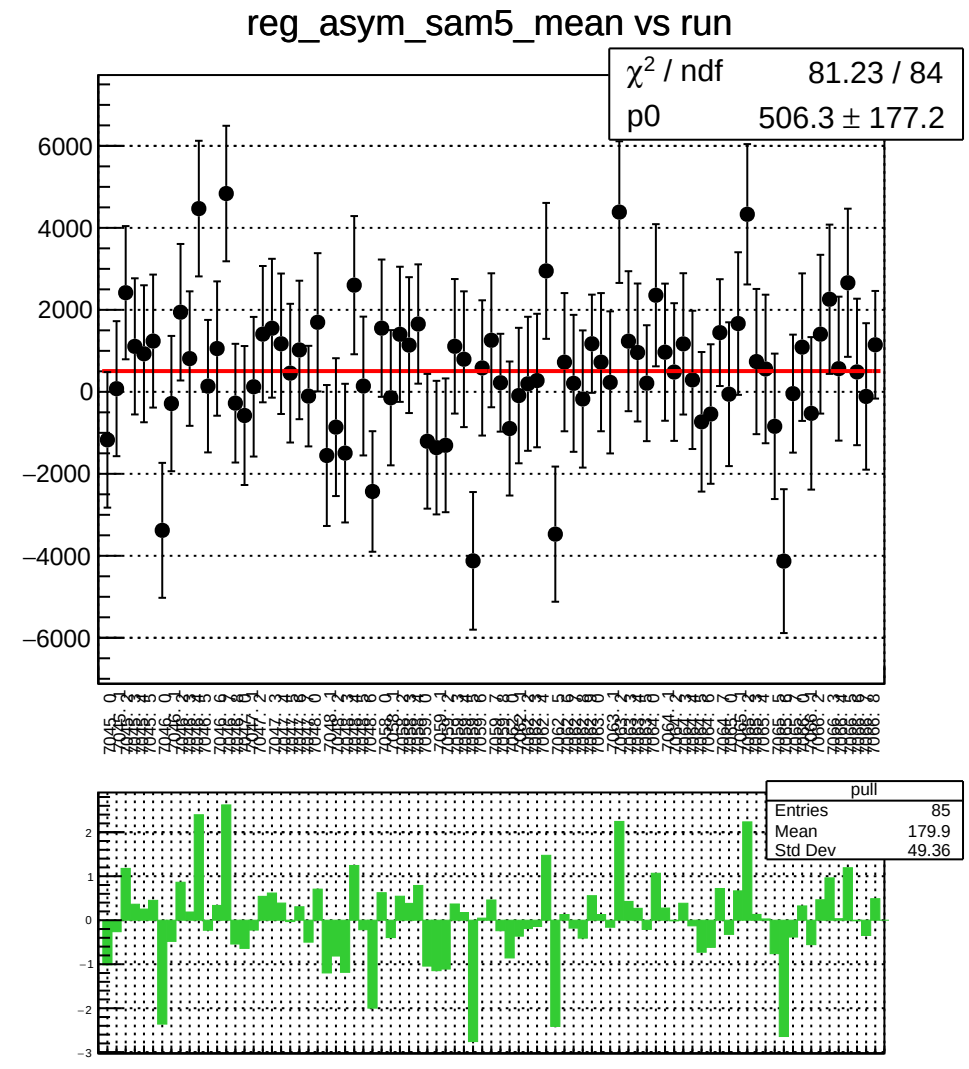

pull1D
Entries 85
Mean 0.0305
Std Dev 1.065

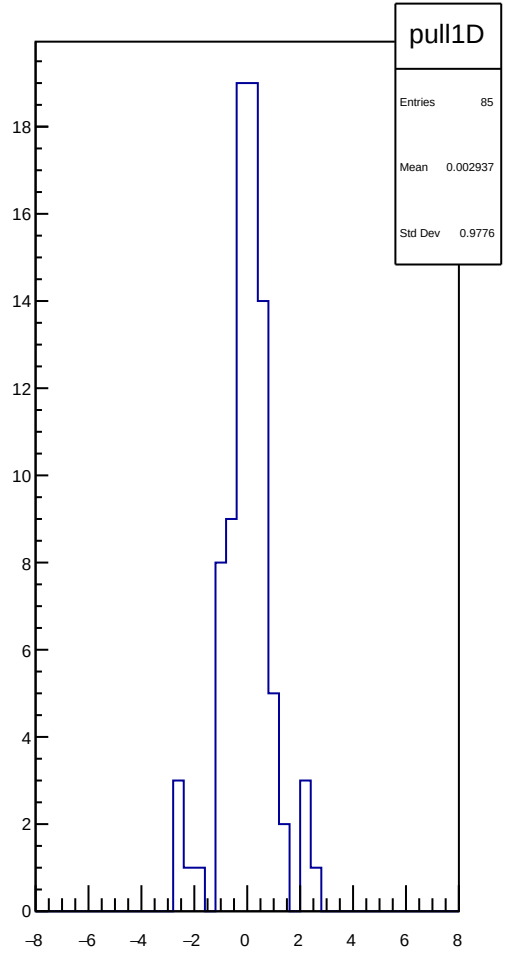

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+05 / 84
p0 113.8 ± 0.09253
450
400
350
300
250
200
150
100
50

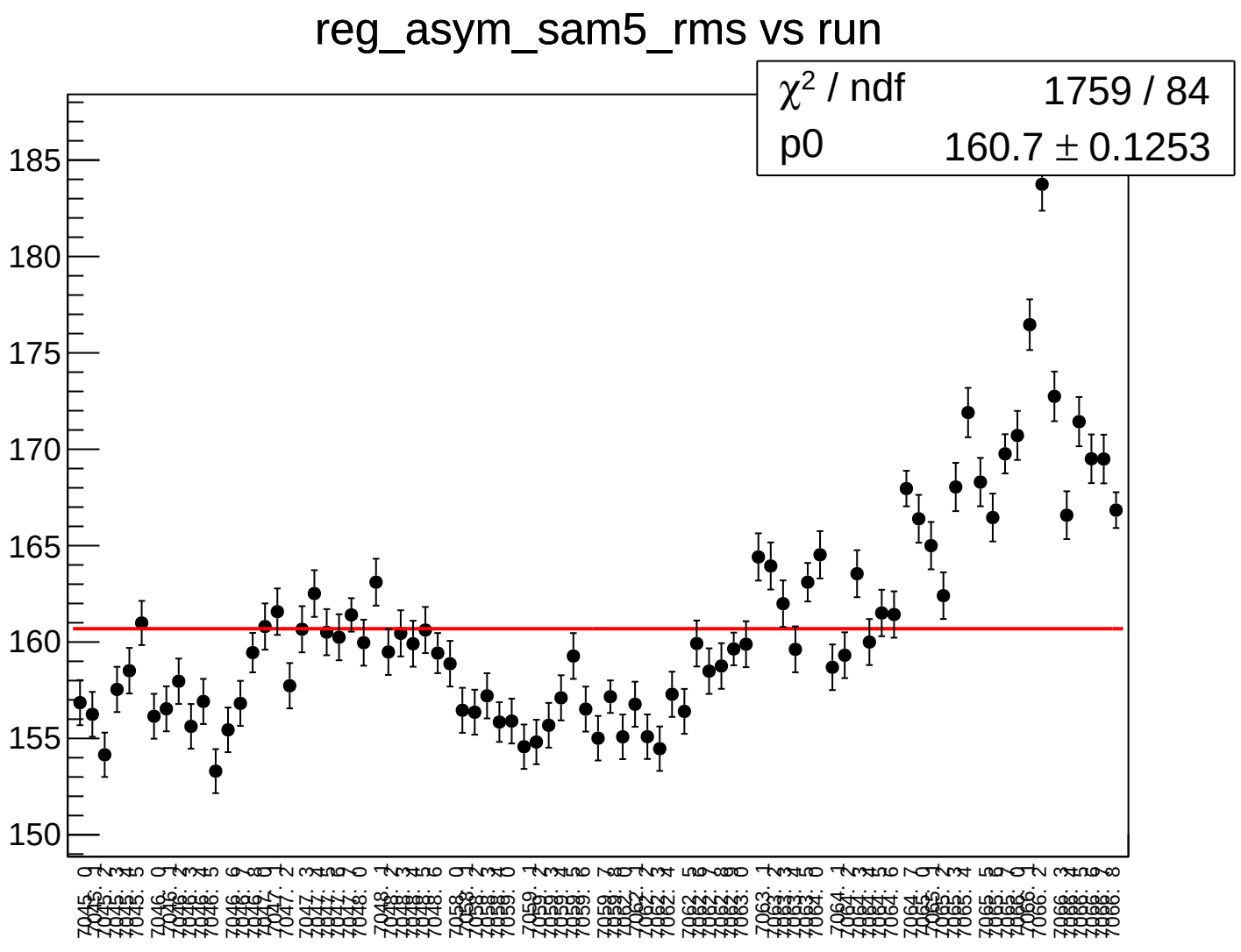

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.88 / 84
p0 1.228e−14 ± 4.799e−14
pull
Entries 85
Mean 399.3
Std Dev 0

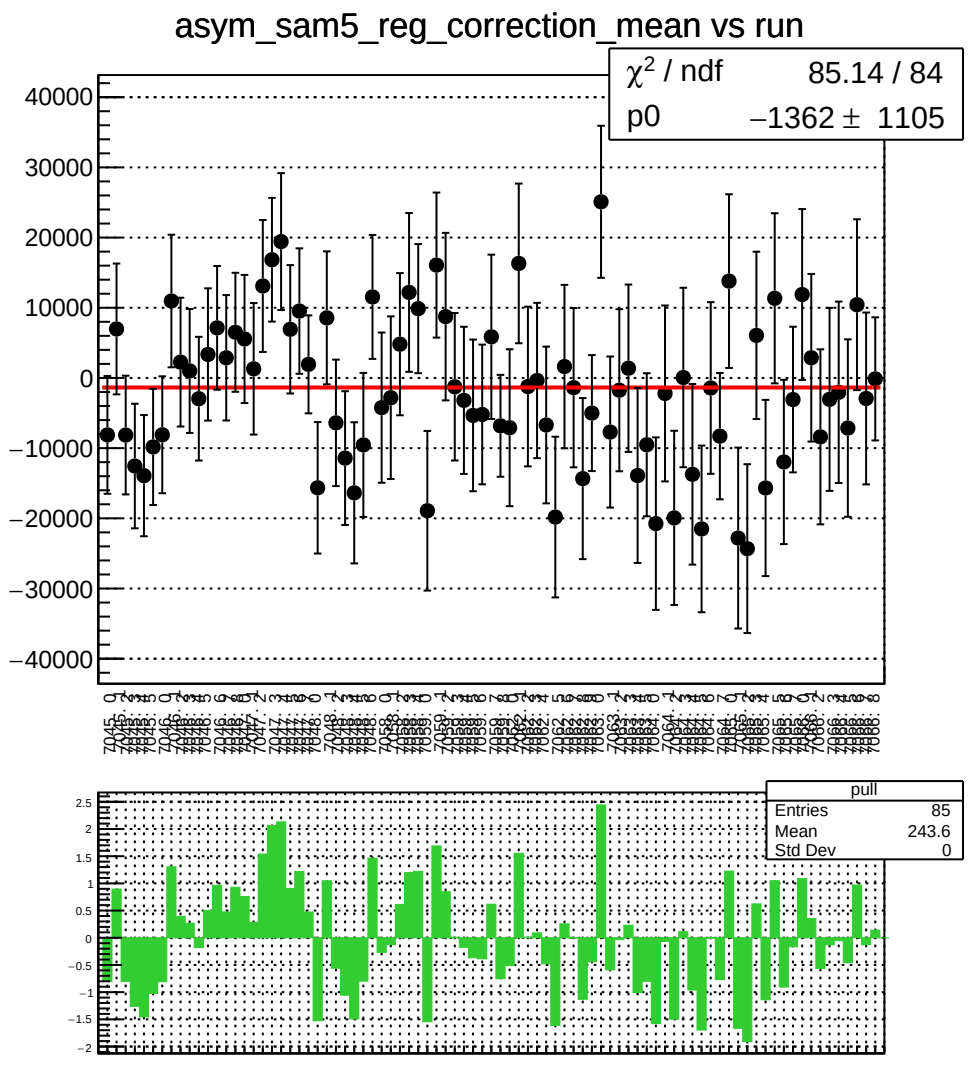

pull1D
Entries 85
Mean 0.01103
Std Dev 1.073

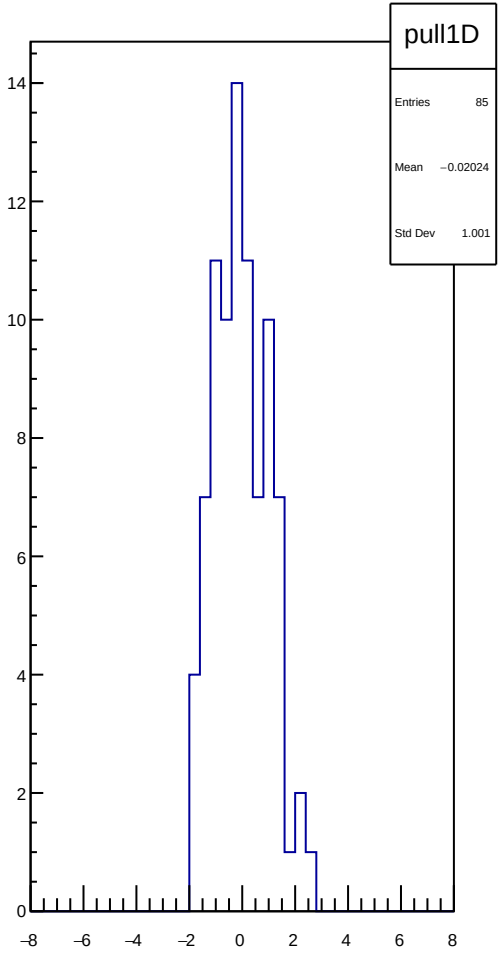

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.668e+05 / 84
p0 3.84e−11 ± 3.393e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

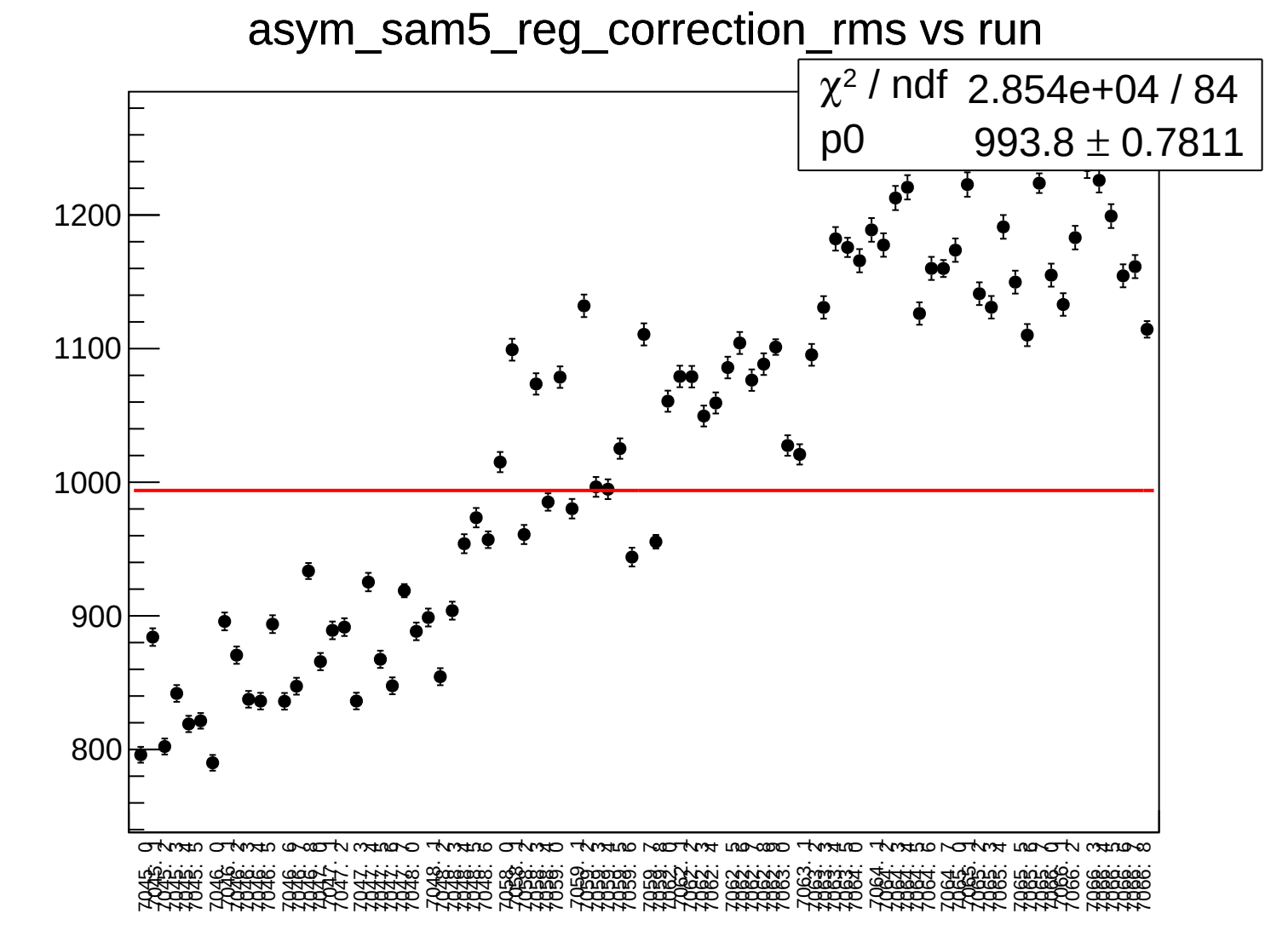

reg_asym_sam5_mean vs run
χ² / ndf 81.23 / 84
p0 506.3 ± 177.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 179.9
Std Dev 49.36
2
1
0
−1
−2
−3

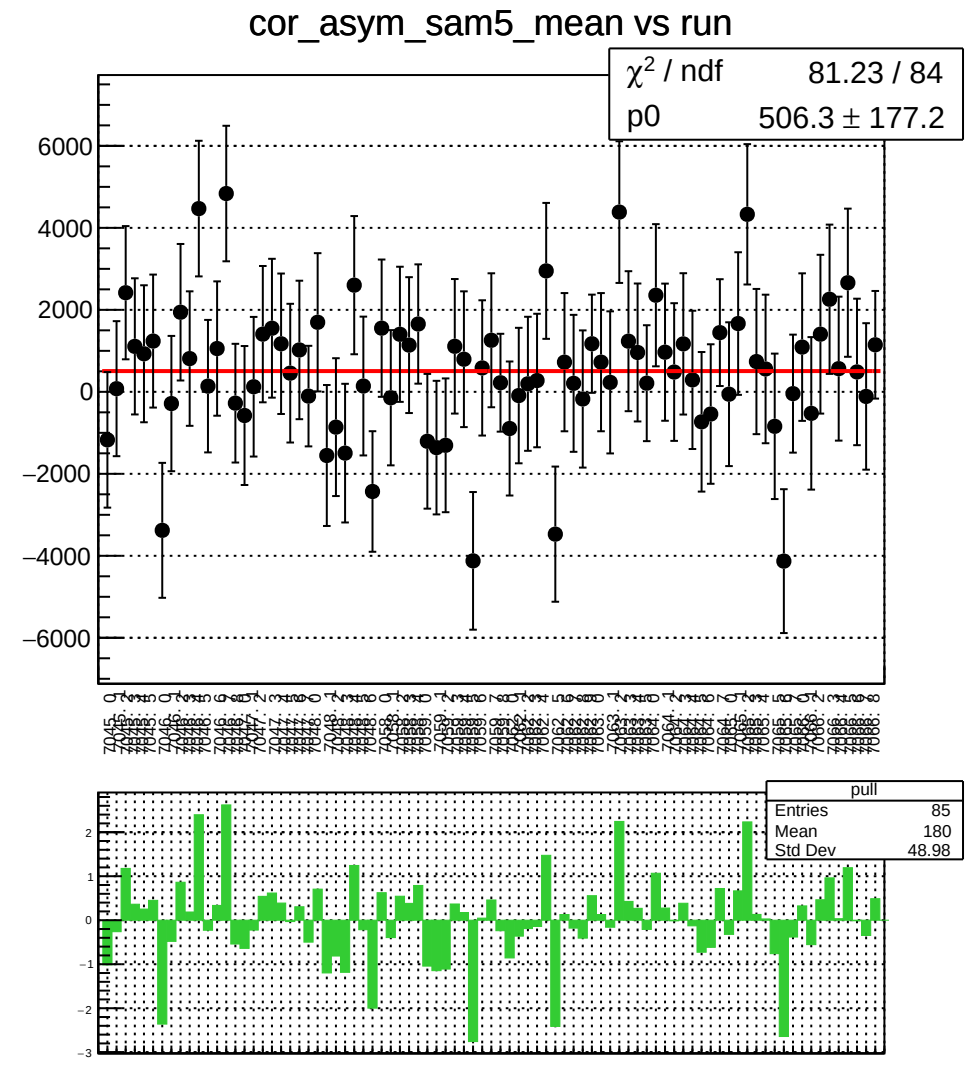

pull1D
Entries 85
Mean 0.002937
Std Dev 0.9776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

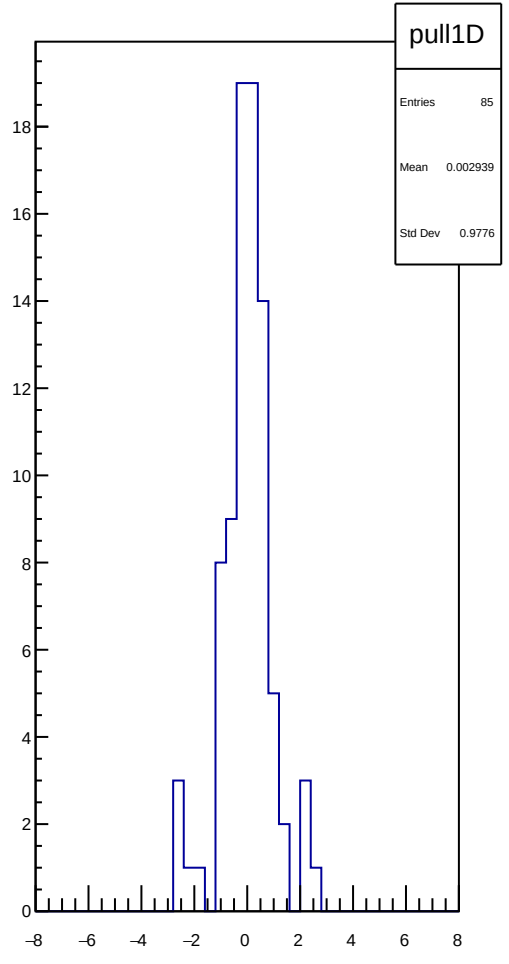

reg_asym_sam5_rms vs run
χ² / ndf 1759 / 84
p0 160.7 ± 0.1253
185
180
175
170
165
160
155
150

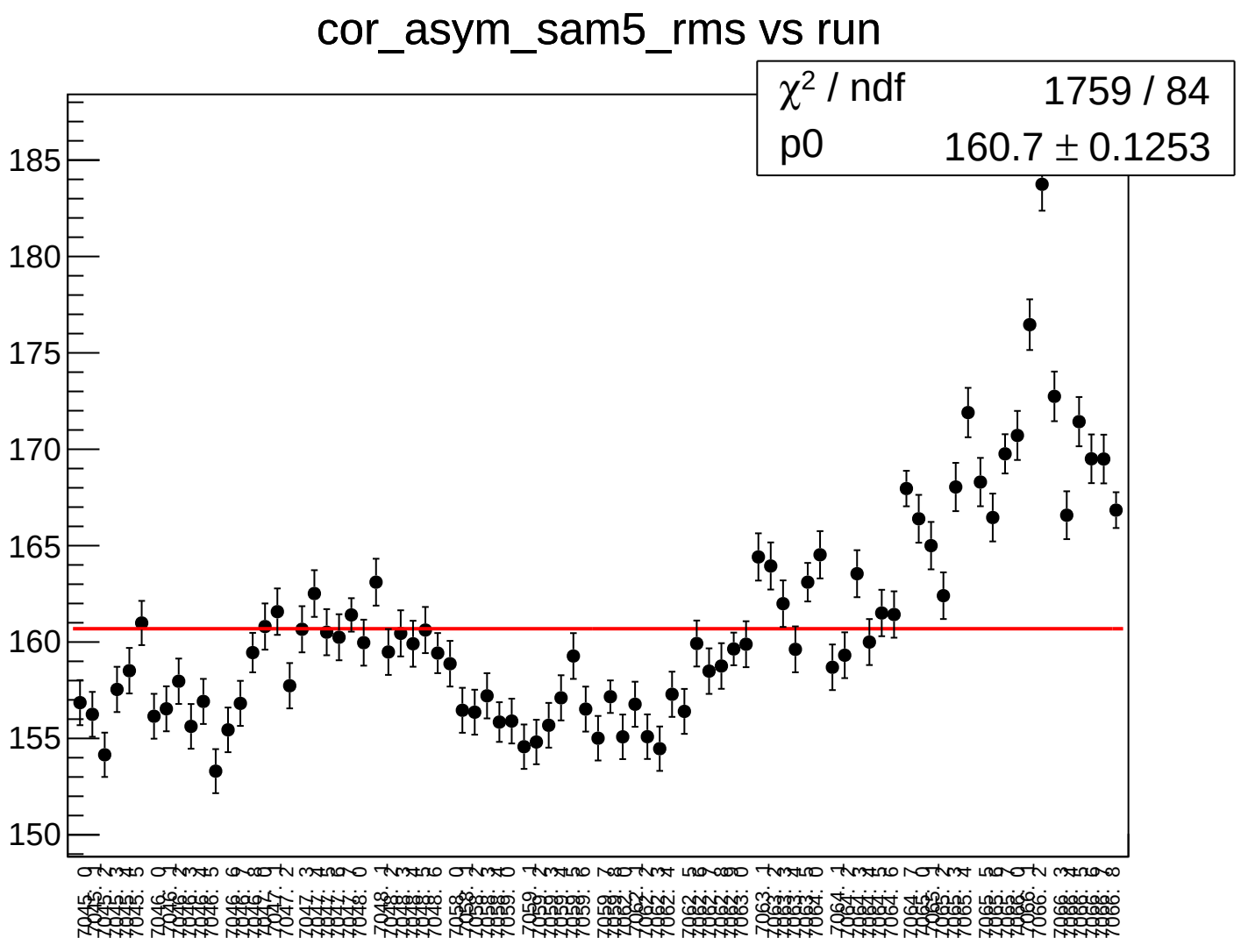

asym_sam5_reg_correction_mean vs run
χ² / ndf 85.14 / 84
p0 −1362 ± 1105
pull
Entries 85
Mean 243.6
Std Dev 0

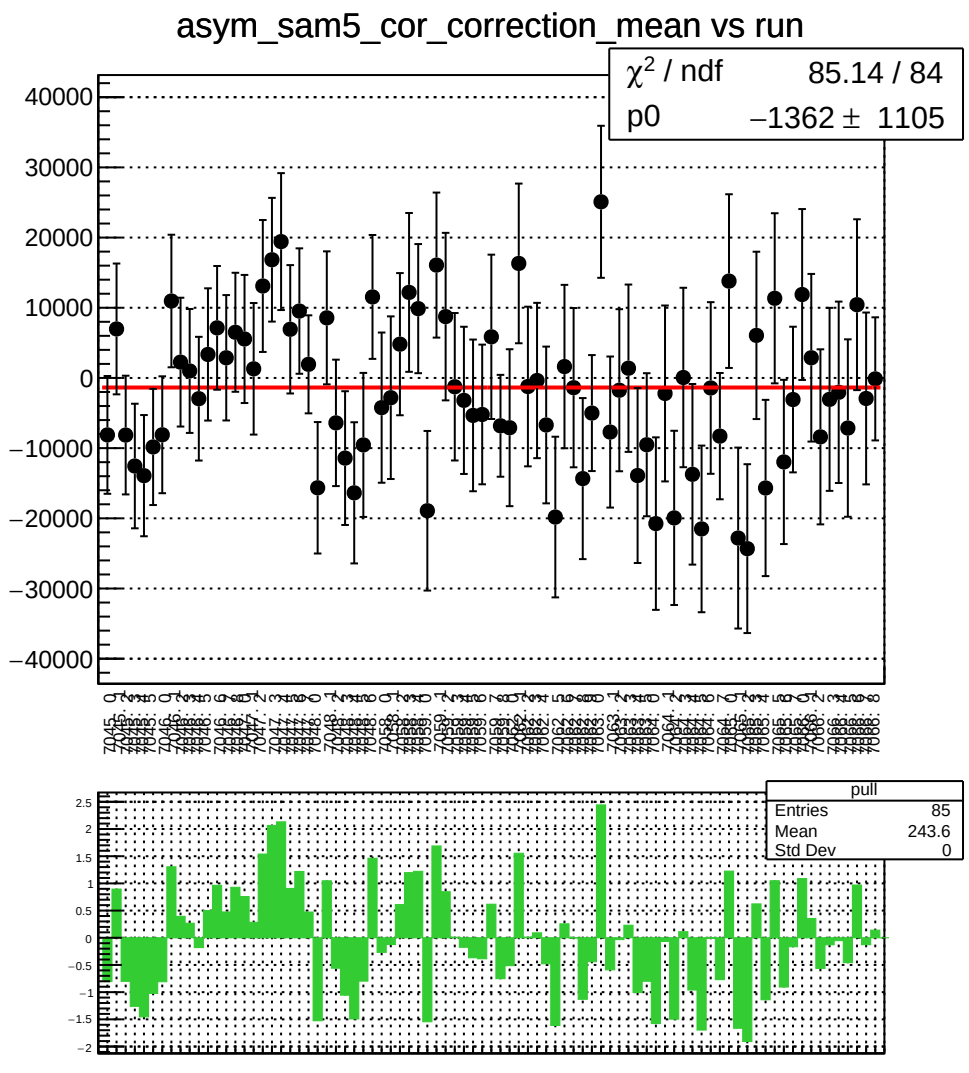

pull1D
Entries 85
Mean −0.02024
Std Dev 1.001

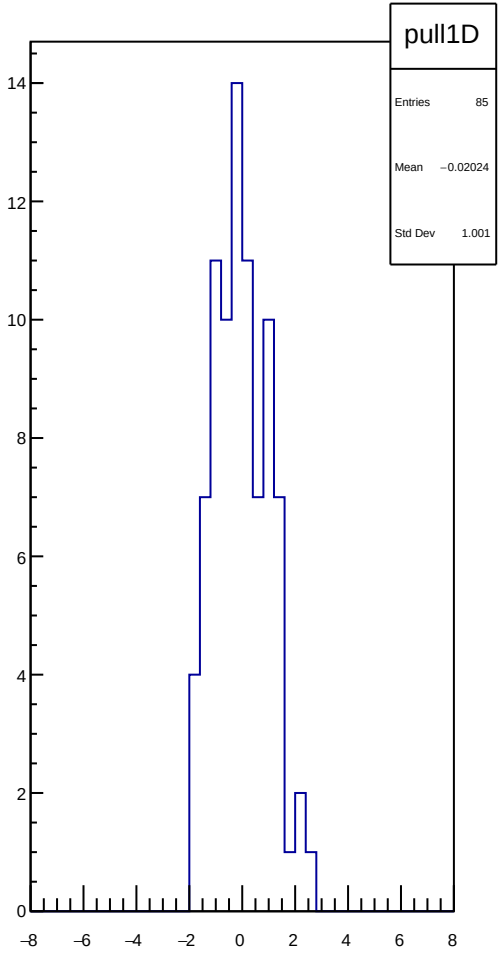

asym_sam5_reg_correction_rms vs run
χ² / ndf 2.854e+04 / 84
p0 993.8 ± 0.7811
1200
1100
1000
900
800

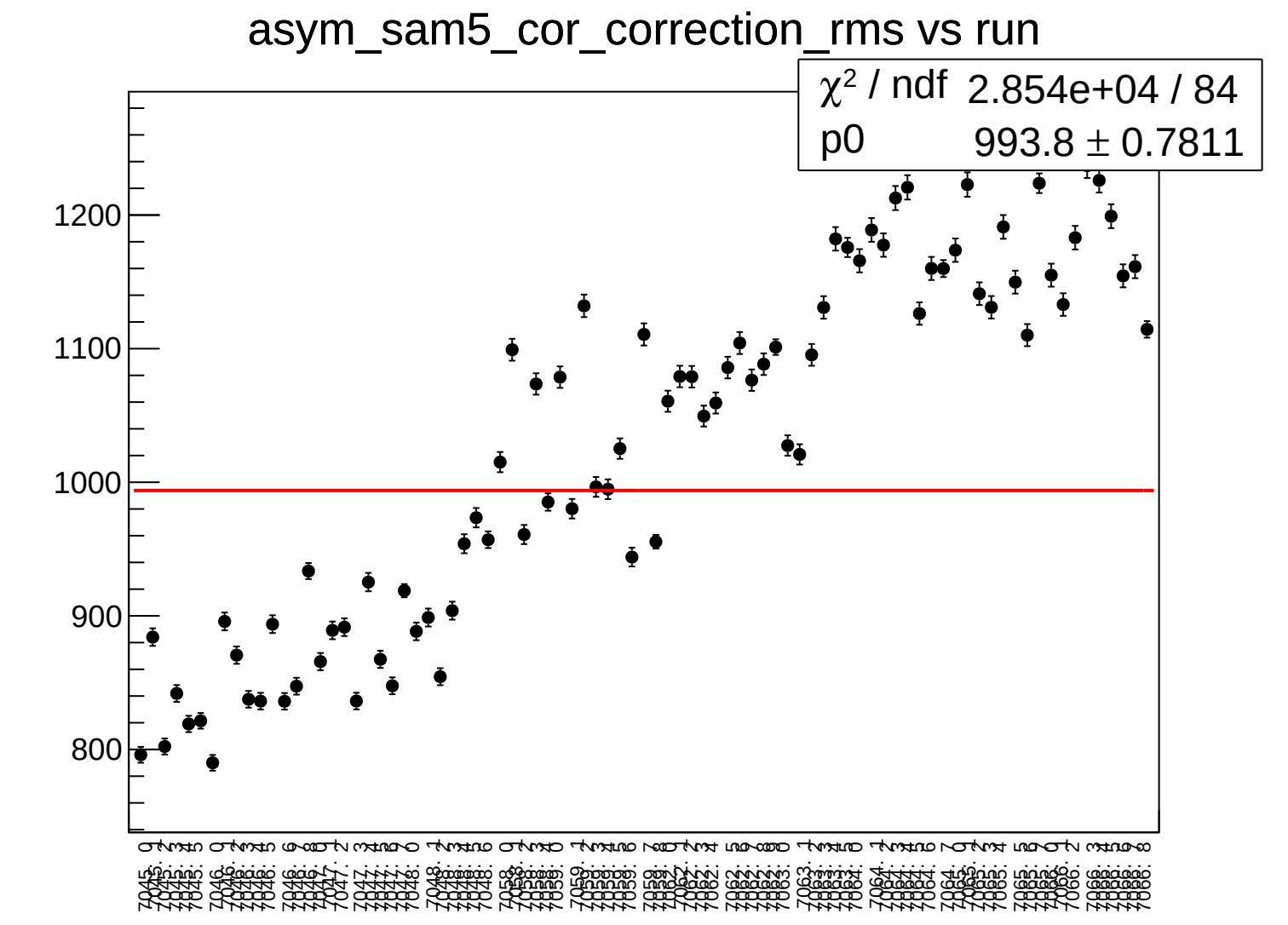

cor_asym_sam5_mean vs run
χ^2 / ndf 81.23 / 84
p0 506.3 ± 177.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 180
Std Dev 48.98
2
1
0
−1
−2
−3

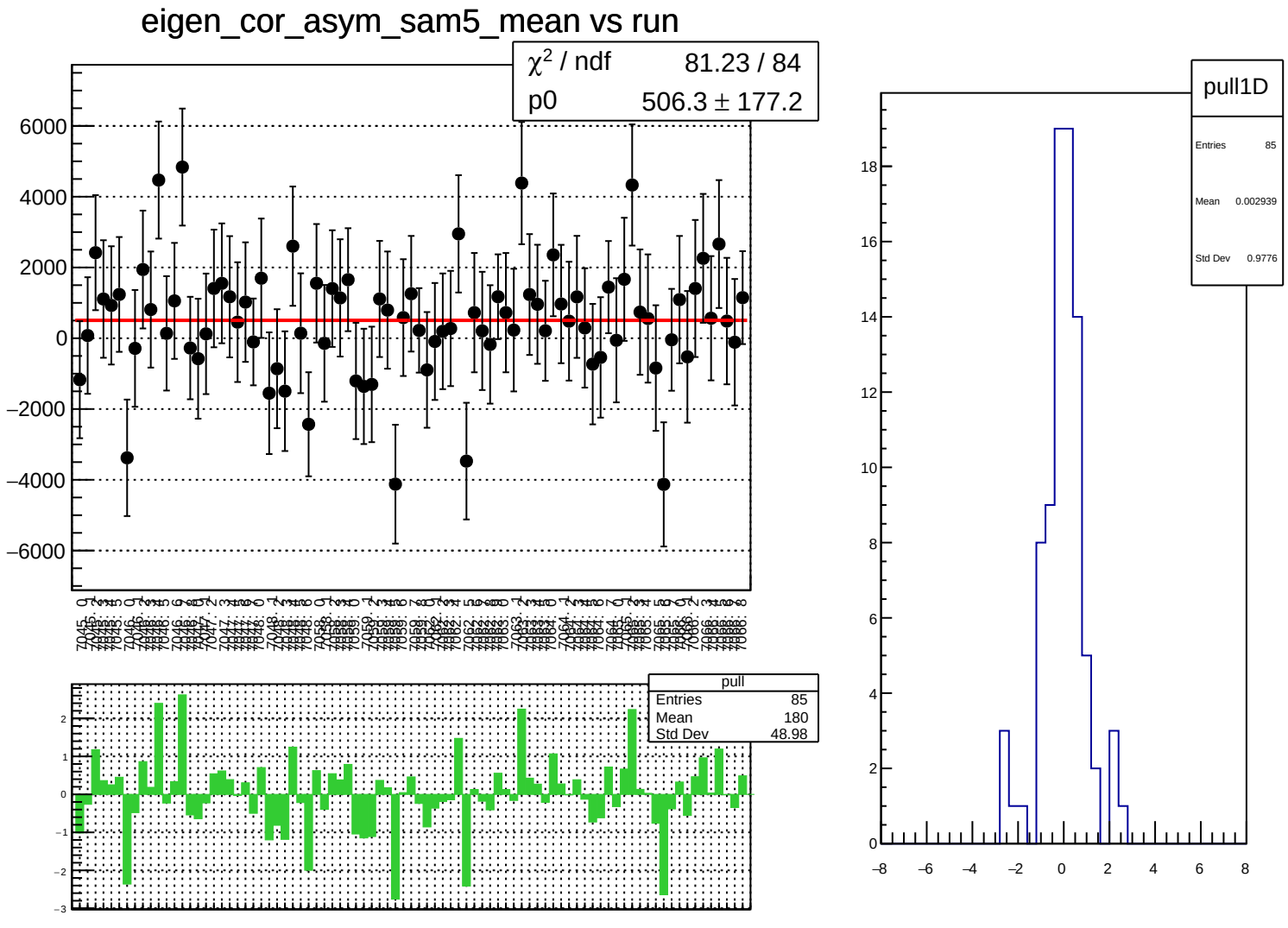

pull1D
Entries 85
Mean 0.002939
Std Dev 0.9776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

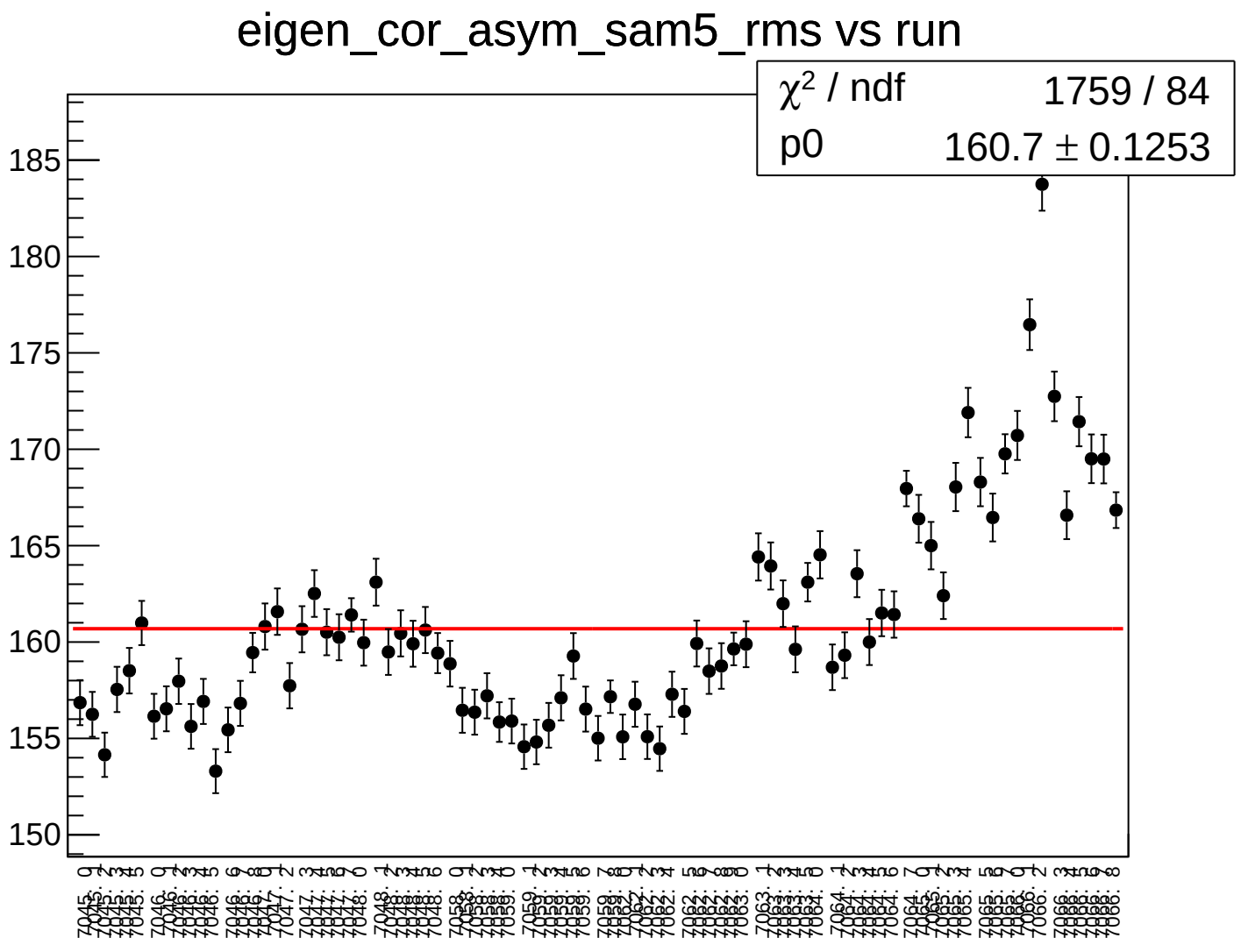

cor_asym_sam5_rms vs run
χ² / ndf 1759 / 84
p0 160.7 ± 0.1253
185
180
175
170
165
160
155
150

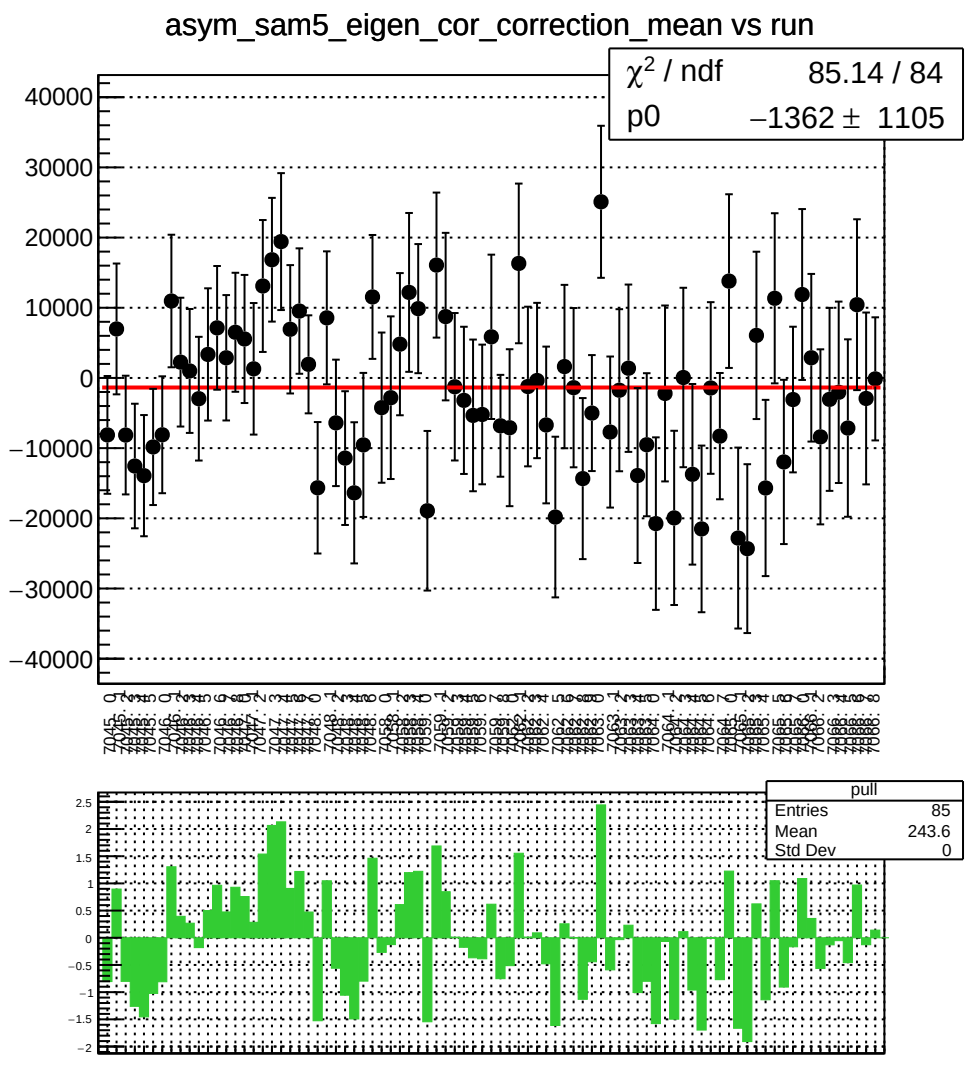

asym_sam5_cor_correction_mean vs run
χ² / ndf 85.14 / 84
p0 −1362 ± 1105
pull
Entries 85
Mean 243.6
Std Dev 0

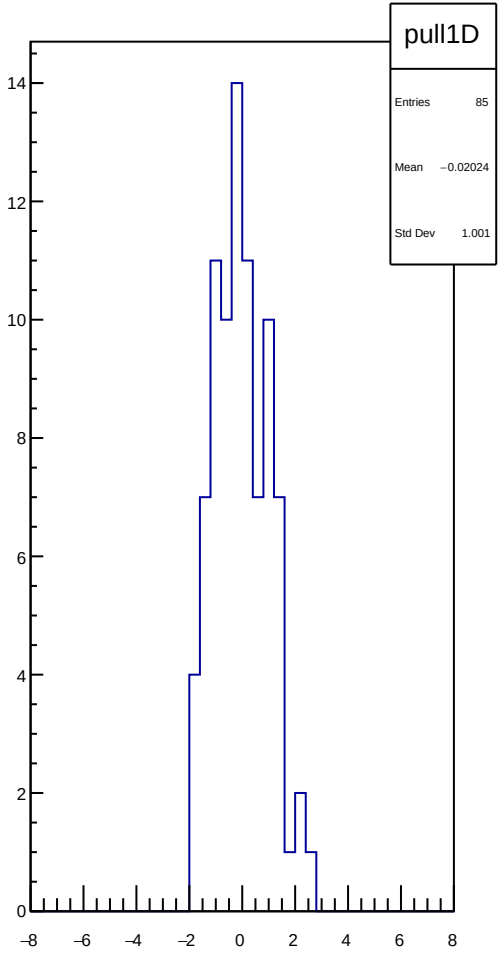

pull1D
Entries 85
Mean −0.02024
Std Dev 1.001

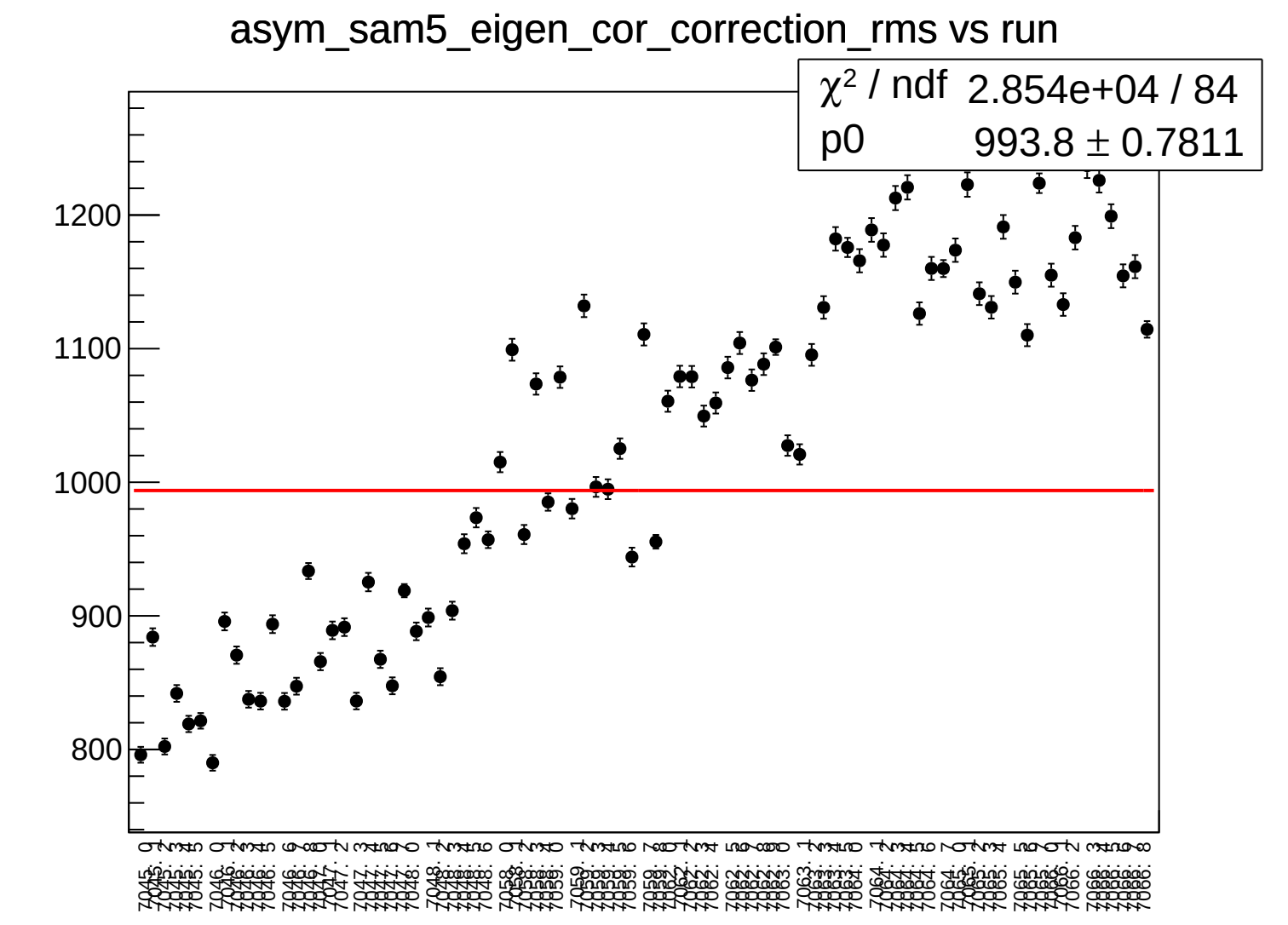

asym_sam5_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 84
p0 993.8 ± 0.7811
1200
1100
1000
900
800

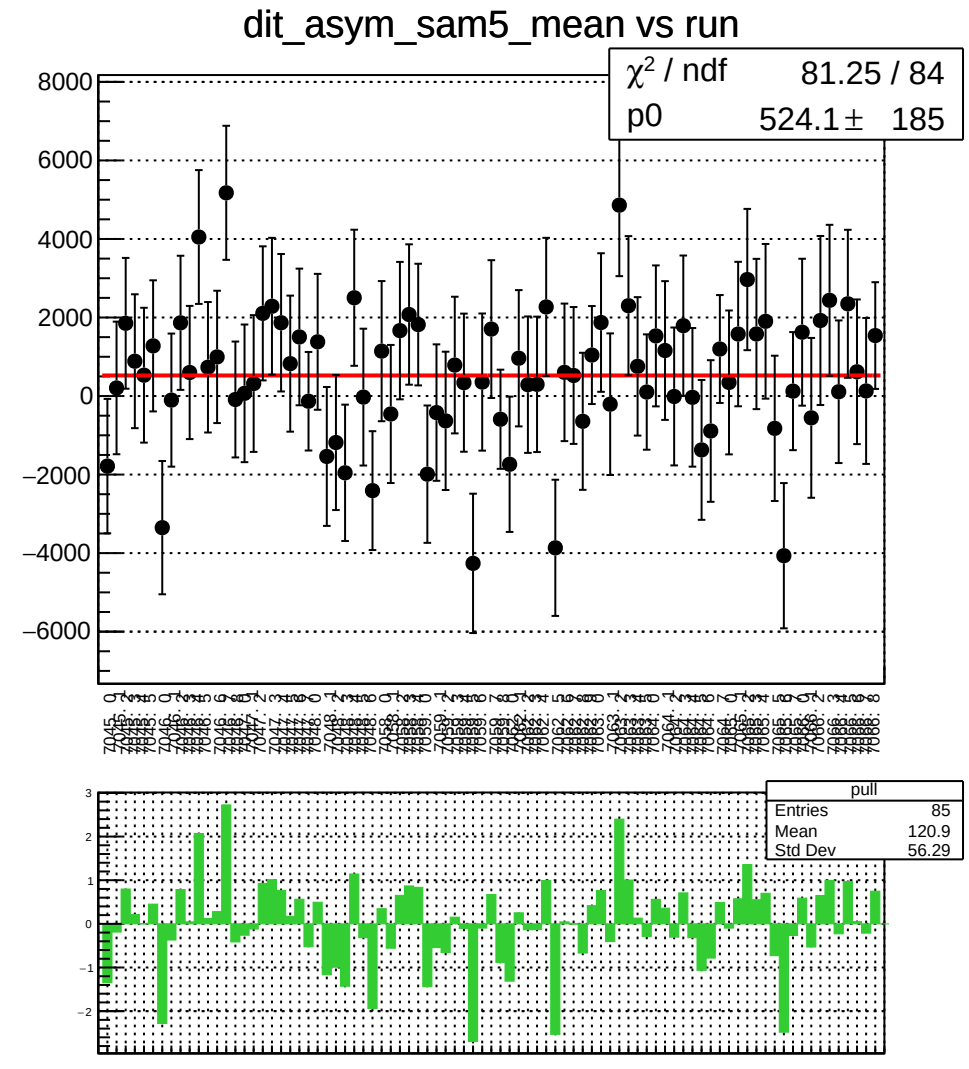

eigen_cor_asym_sam5_mean vs run
χ² / ndf 81.23 / 84
p0 506.3 ± 177.2
pull
Entries 85
Mean 180
Std Dev 48.98
pull1D
Entries 85
Mean 0.002939
Std Dev 0.9776

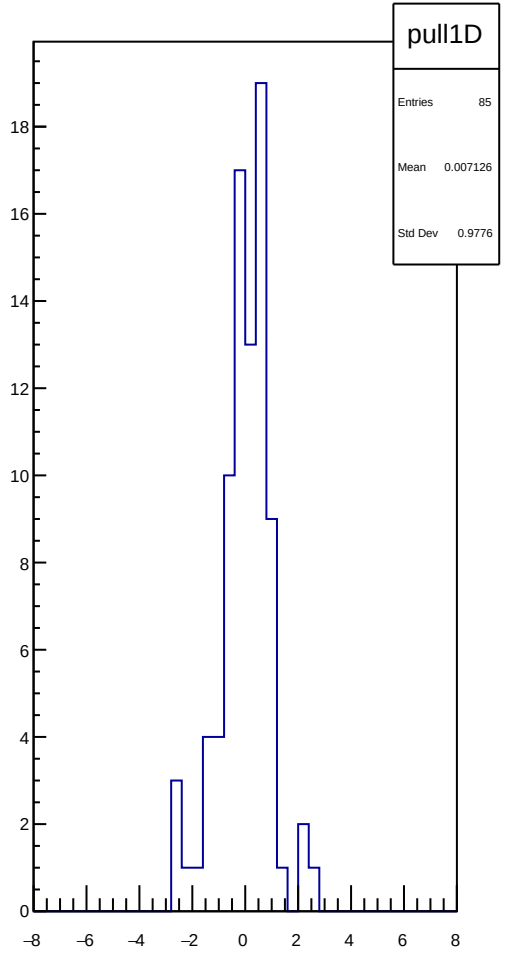

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1759 / 84
p0 160.7 ± 0.1253
185
180
175
170
165
160
155
150

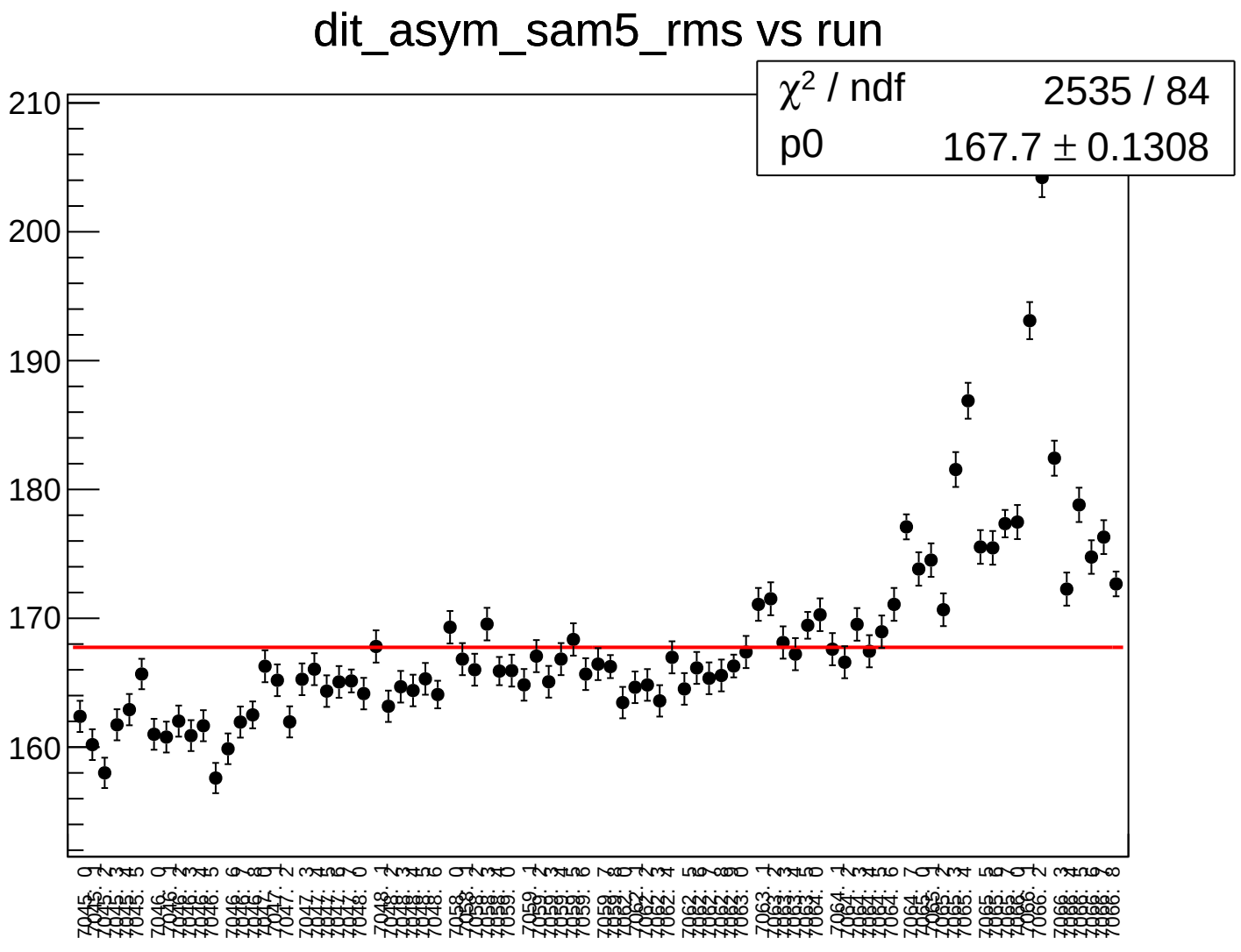

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 85.14 / 84
p0 −1362 ± 1105
pull
Entries 85
Mean 243.6
Std Dev 0

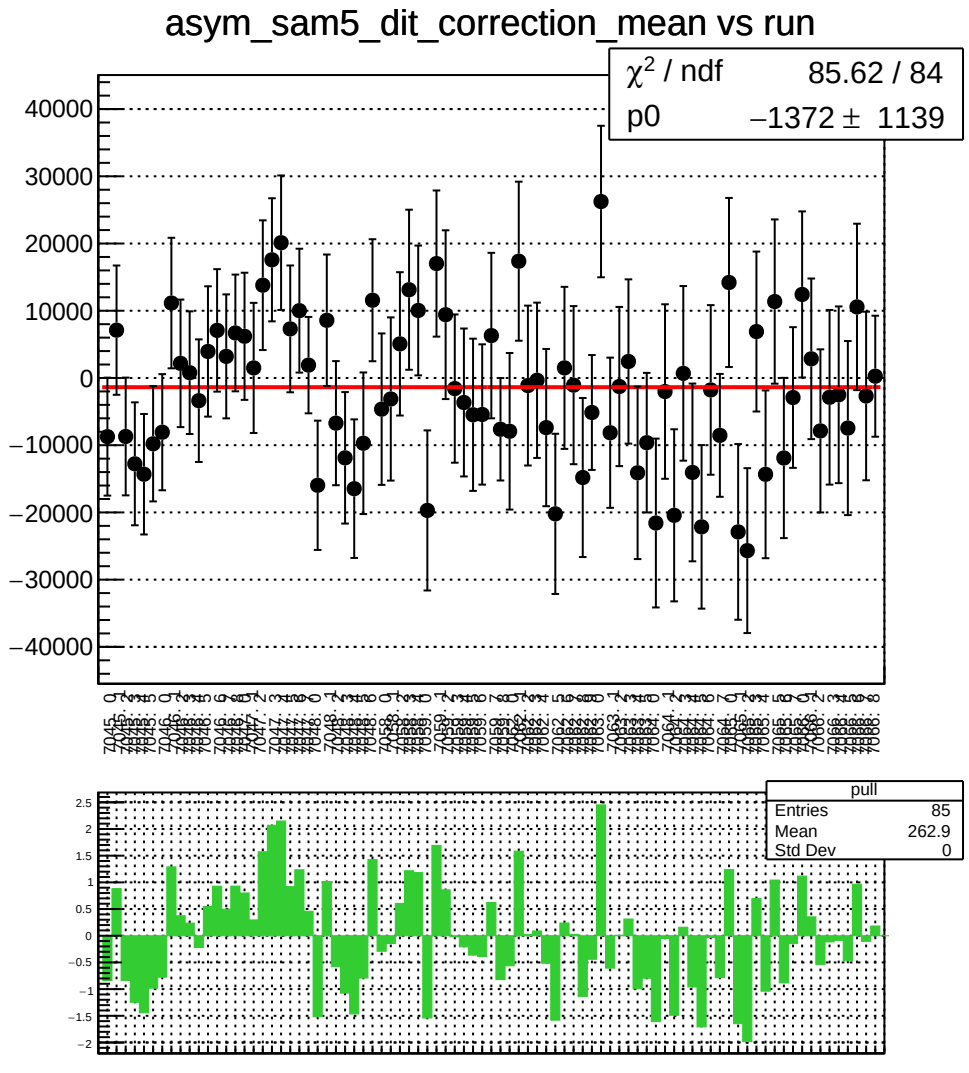

pull1D
Entries 85
Mean −0.02024
Std Dev 1.001

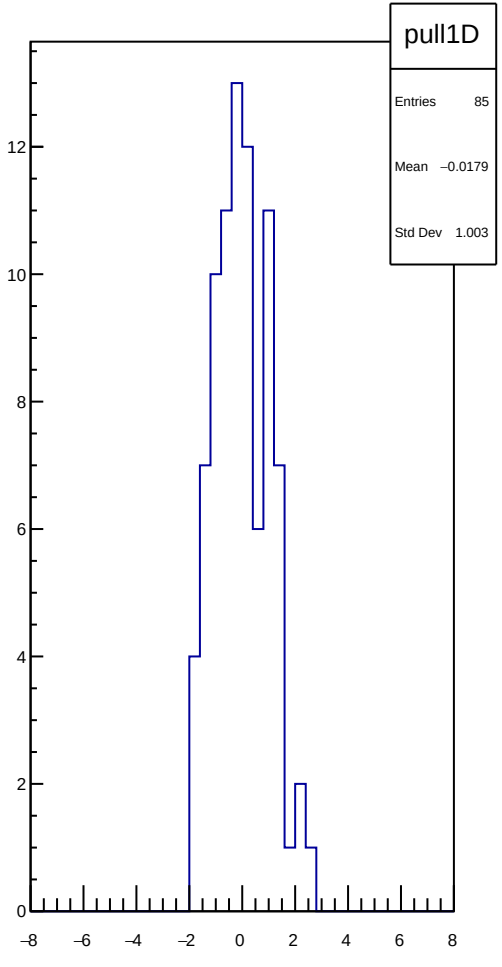

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2.854e+04 / 84
p0 993.8 ± 0.7811
1200
1100
1000
900
800

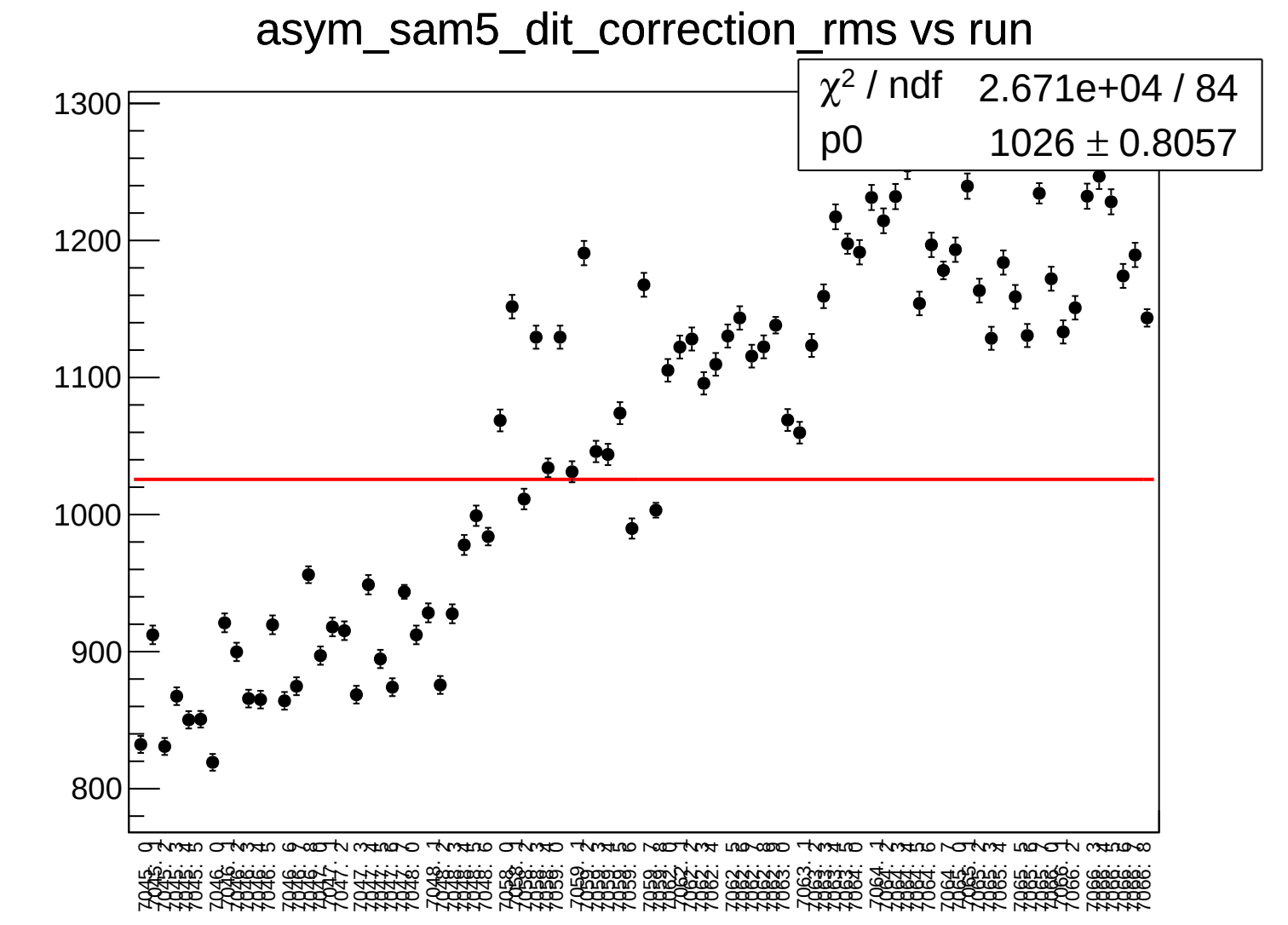

dit_asym_sam5_mean vs run
χ² / ndf 81.25 / 84
p0 524.1 ± 185
pull
Entries 85
Mean 120.9
Std Dev 56.29

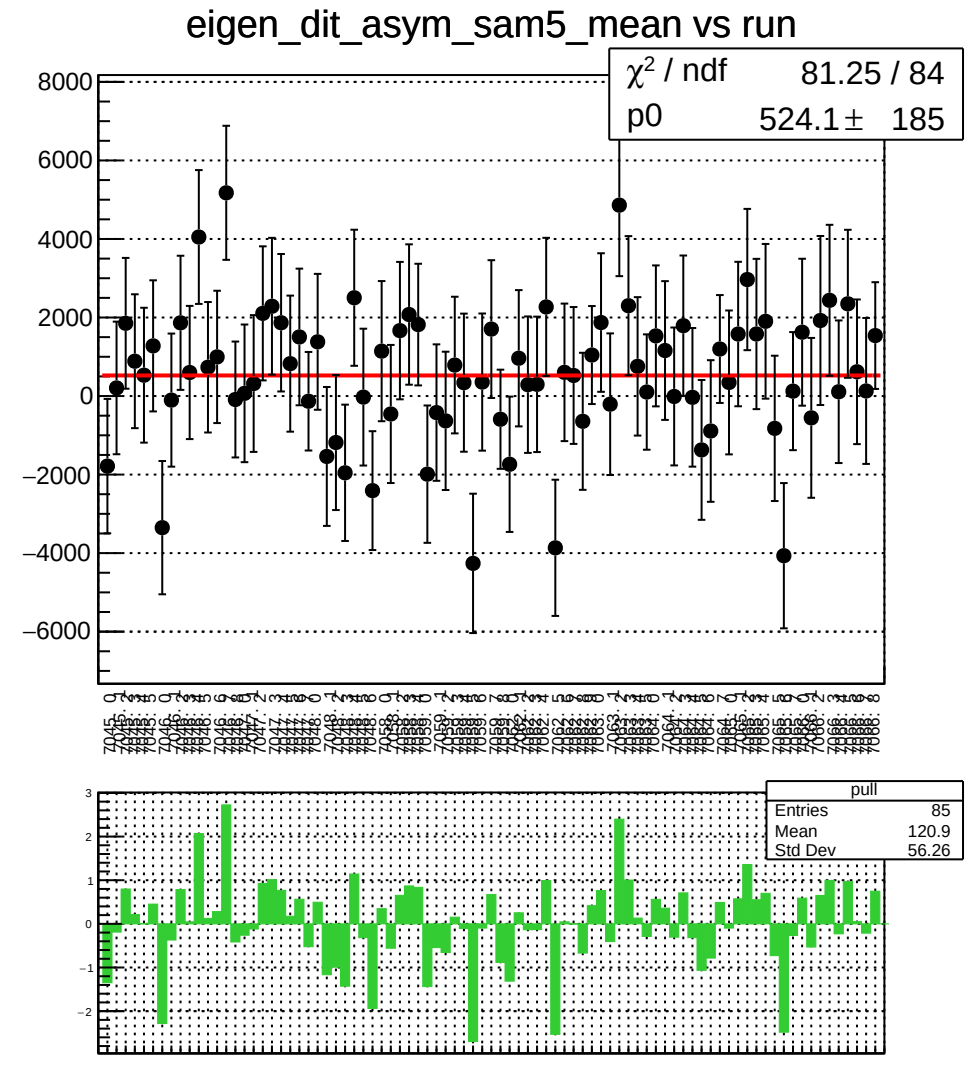

pull1D
Entries 85
Mean 0.007126
Std Dev 0.9776

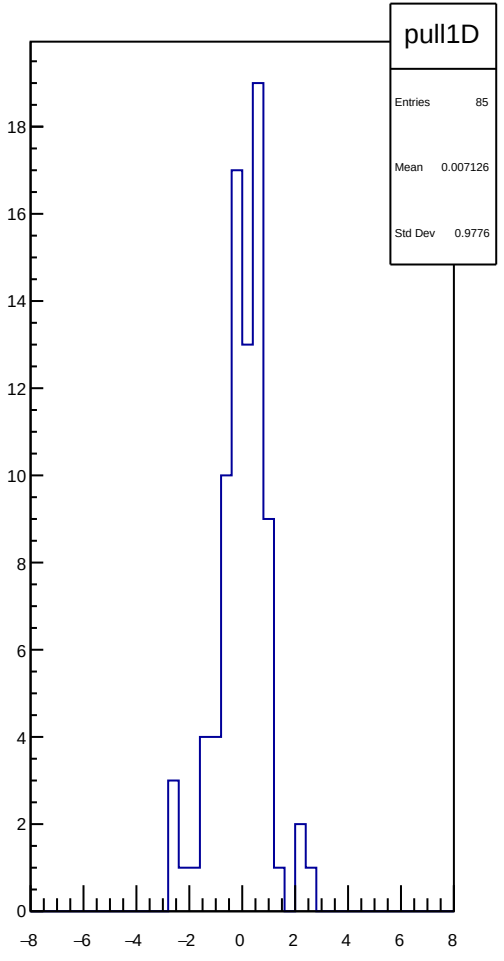

dit_asym_sam5_rms vs run
χ² / ndf 2535 / 84
p0 167.7 ± 0.1308
210
200
190
180
170
160

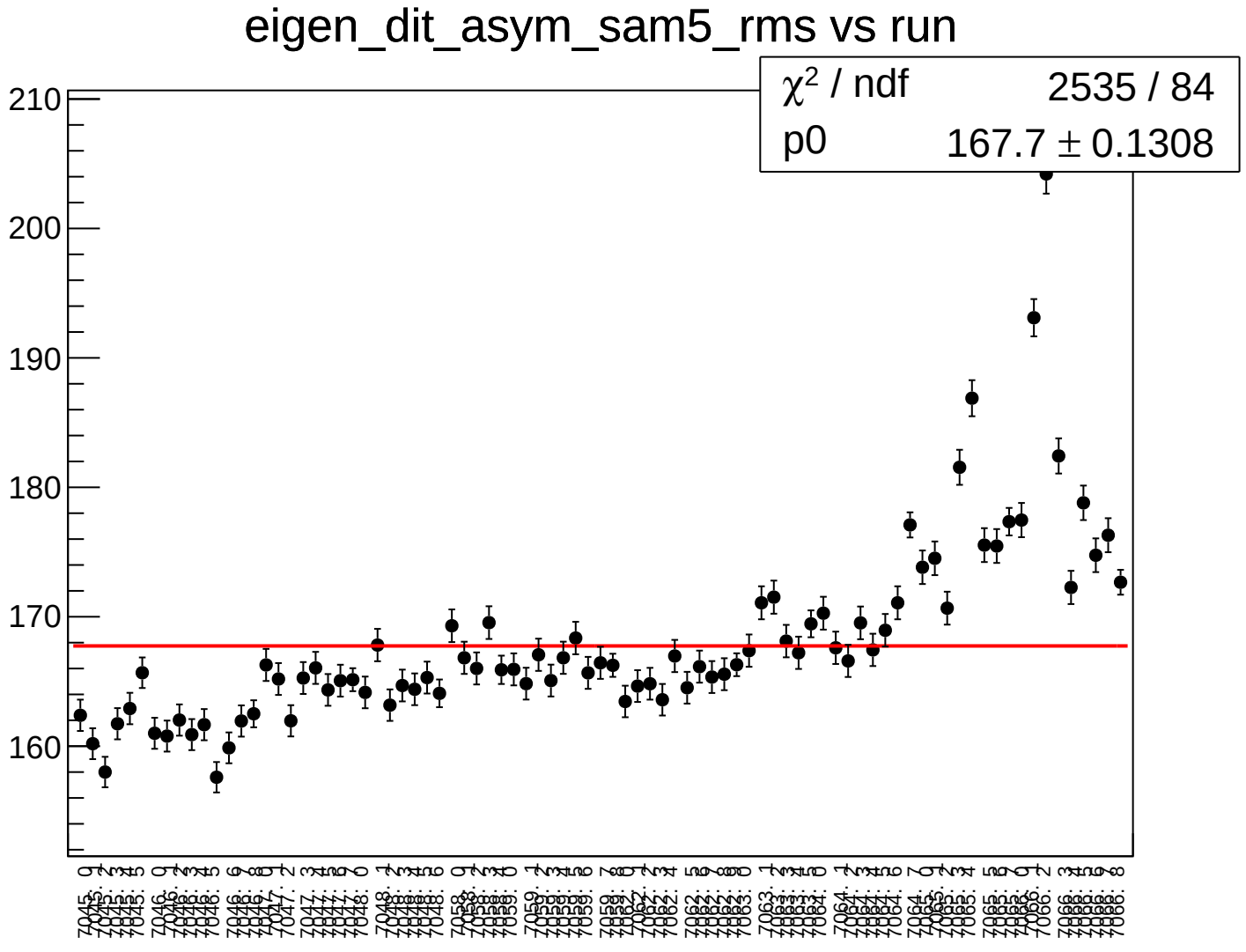

asym_sam5_dit_correction_mean vs run
χ² / ndf 85.62 / 84
p0 −1372 ± 1139
pull
Entries 85
Mean 262.9
Std Dev 0

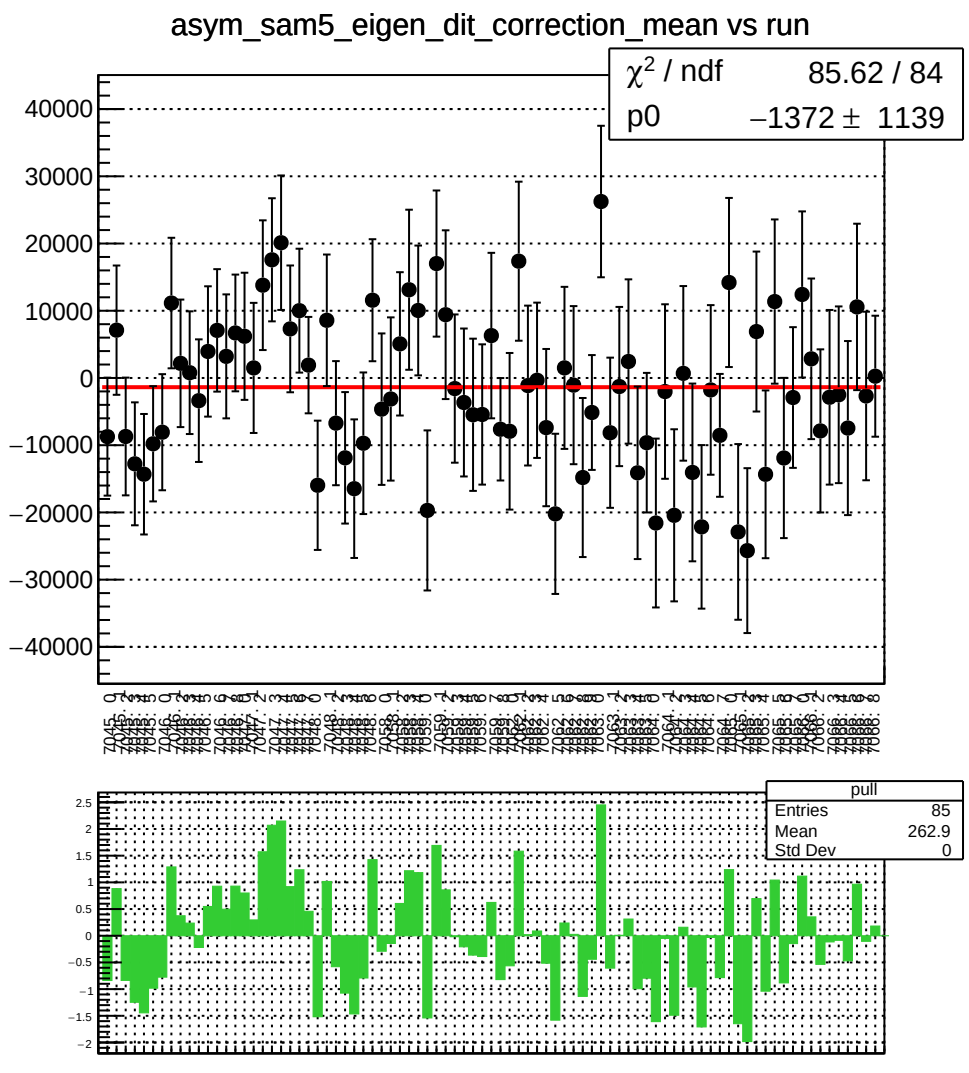

pull1D
Entries 85
Mean −0.0179
Std Dev 1.003

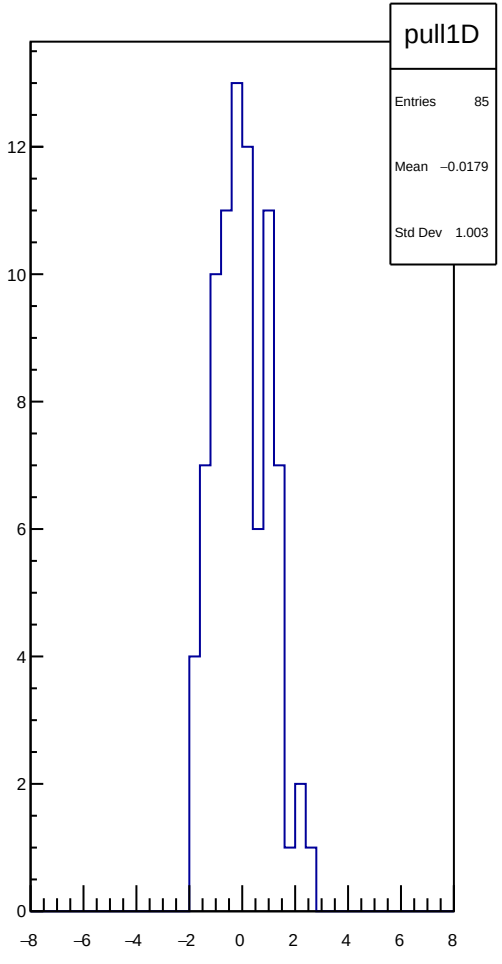

asym_sam5_dit_correction_rms vs run
χ² / ndf 2.671e+04 / 84
p0 1026 ± 0.8057
1300
1200
1100
1000
900
800

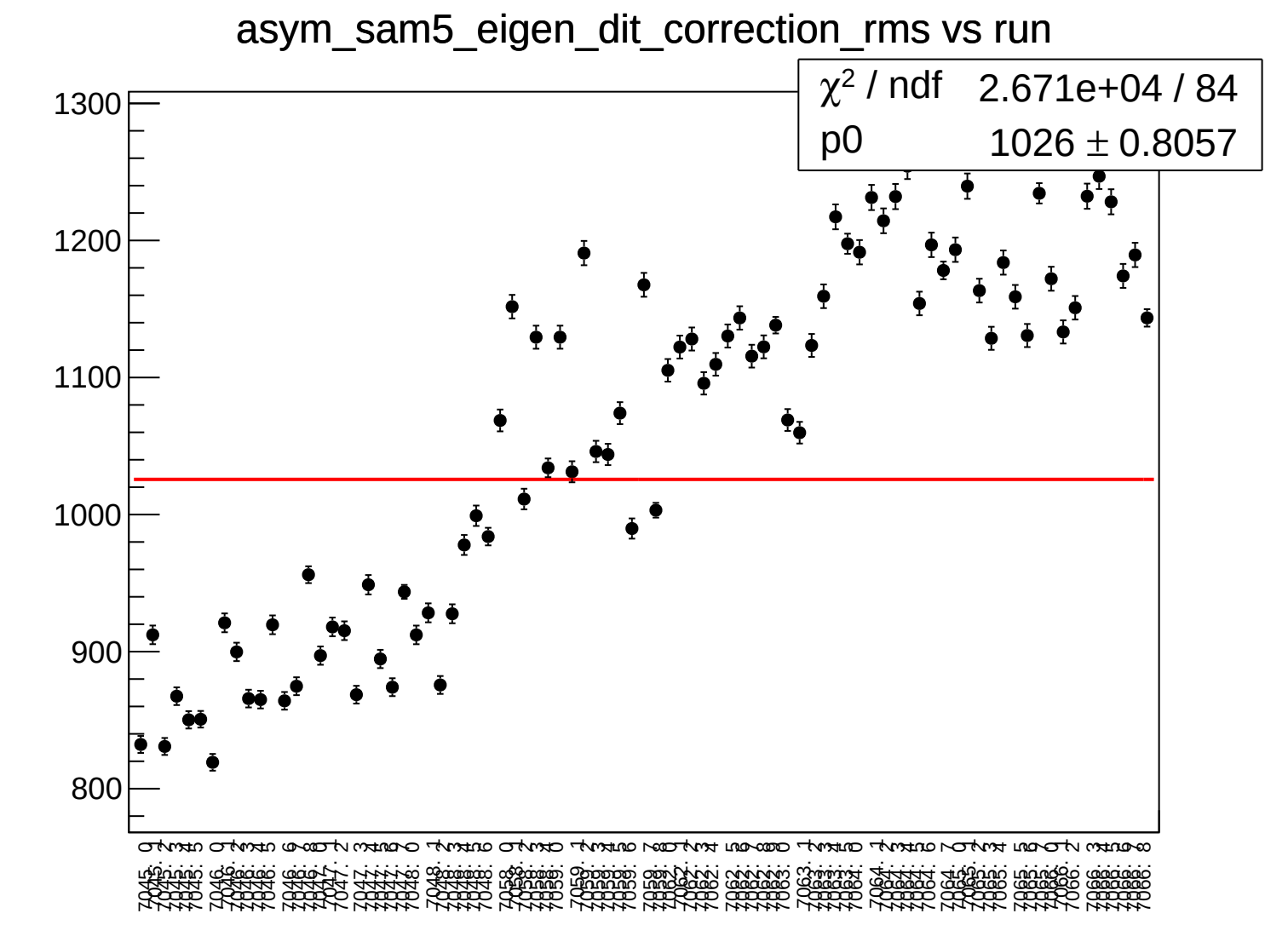

eigen_dit_asym_sam5_mean vs run
χ² / ndf 81.25 / 84
p0 524.1 ± 185
pull
Entries 85
Mean 120.9
Std Dev 56.26

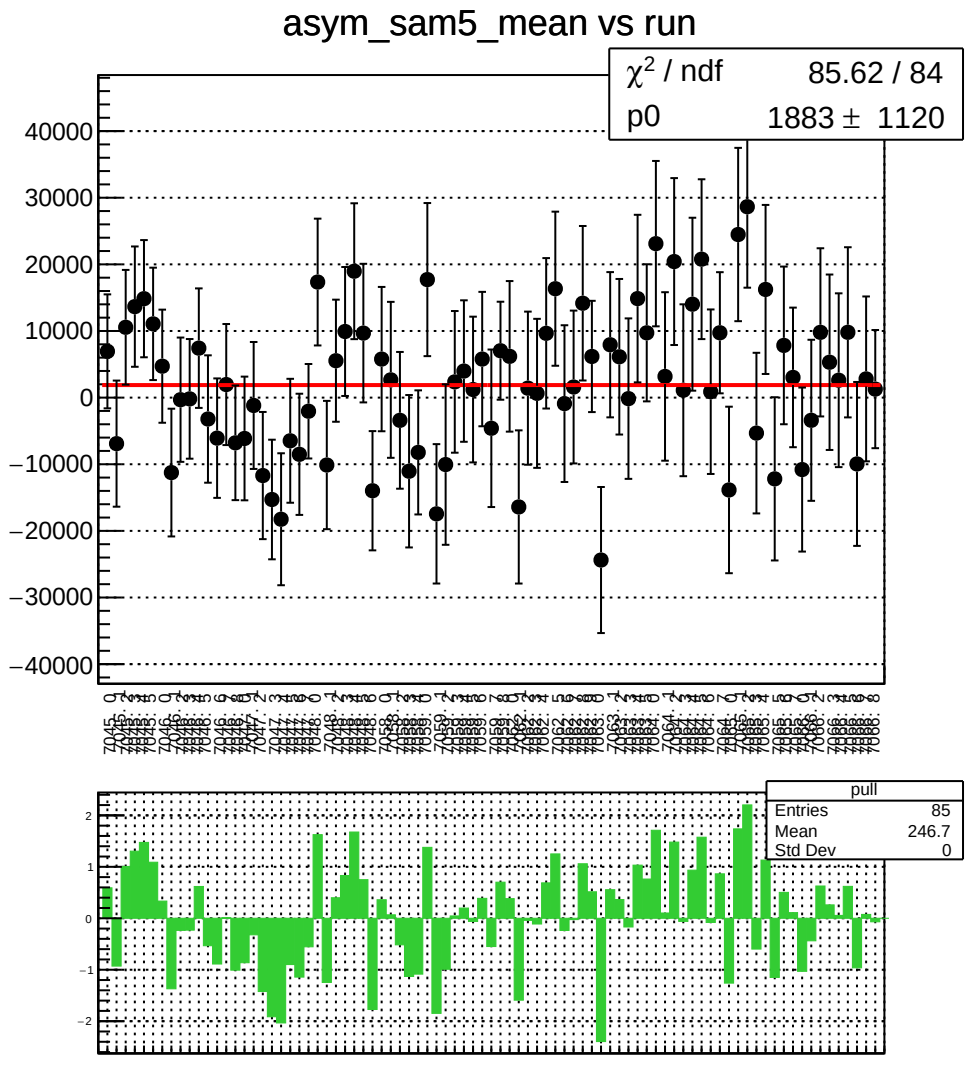

pull1D
Entries 85
Mean 0.007126
Std Dev 0.9776

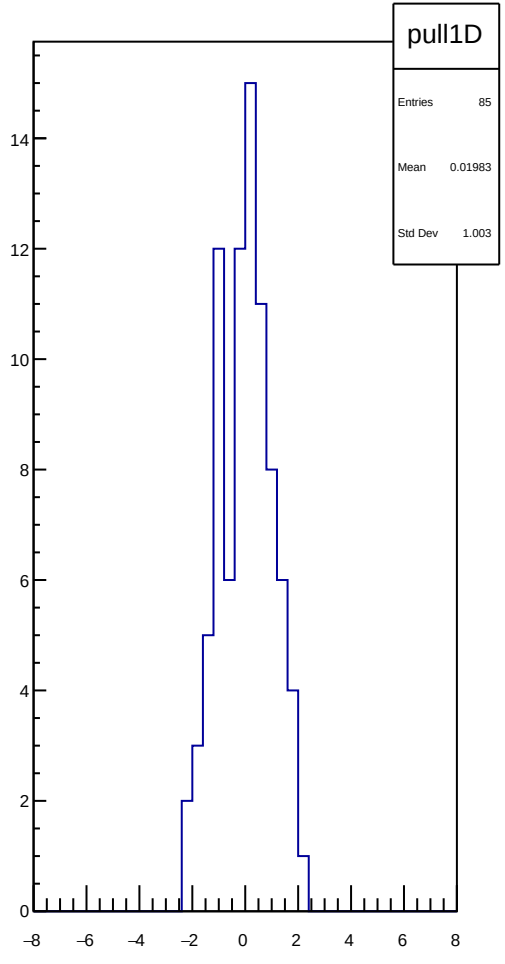

eigen_dit_asym_sam5_rms vs run
χ² / ndf 2535 / 84
p0 167.7 ± 0.1308
210
200
190
180
170
160

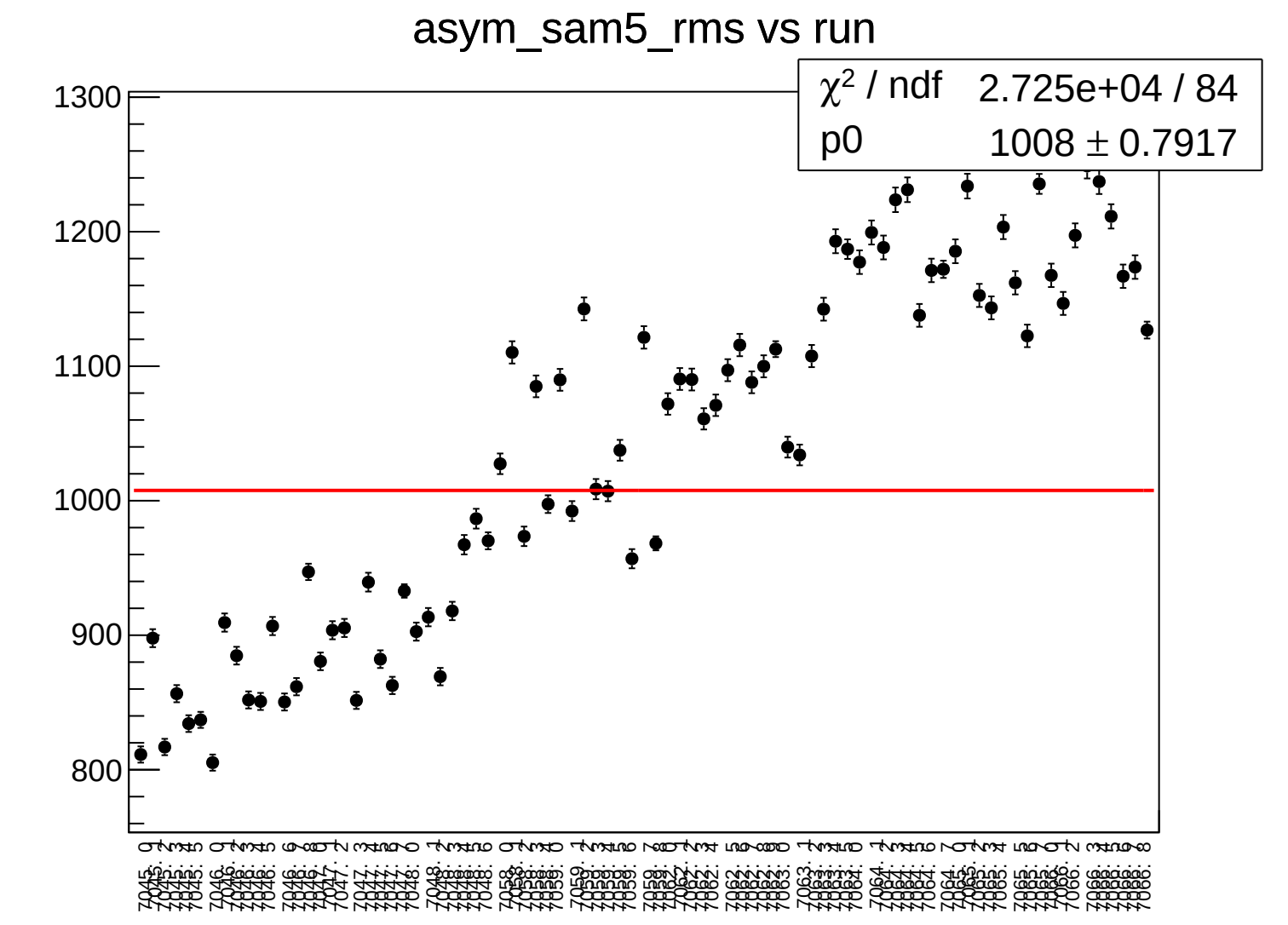

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 85.62 / 84
p0 −1372 ± 1139
pull
Entries 85
Mean 262.9
Std Dev 0

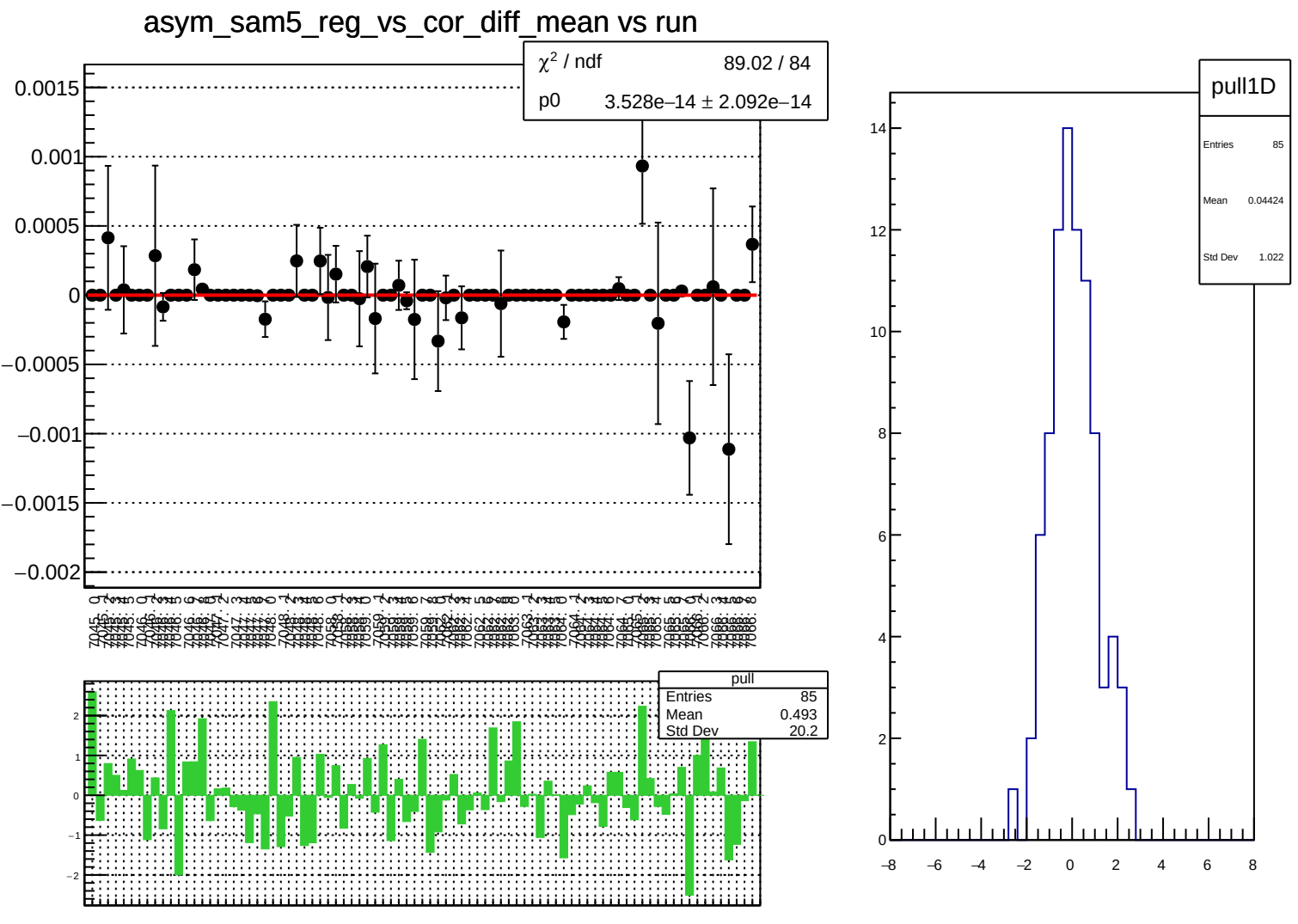

pull1D
Entries 85
Mean −0.0179
Std Dev 1.003

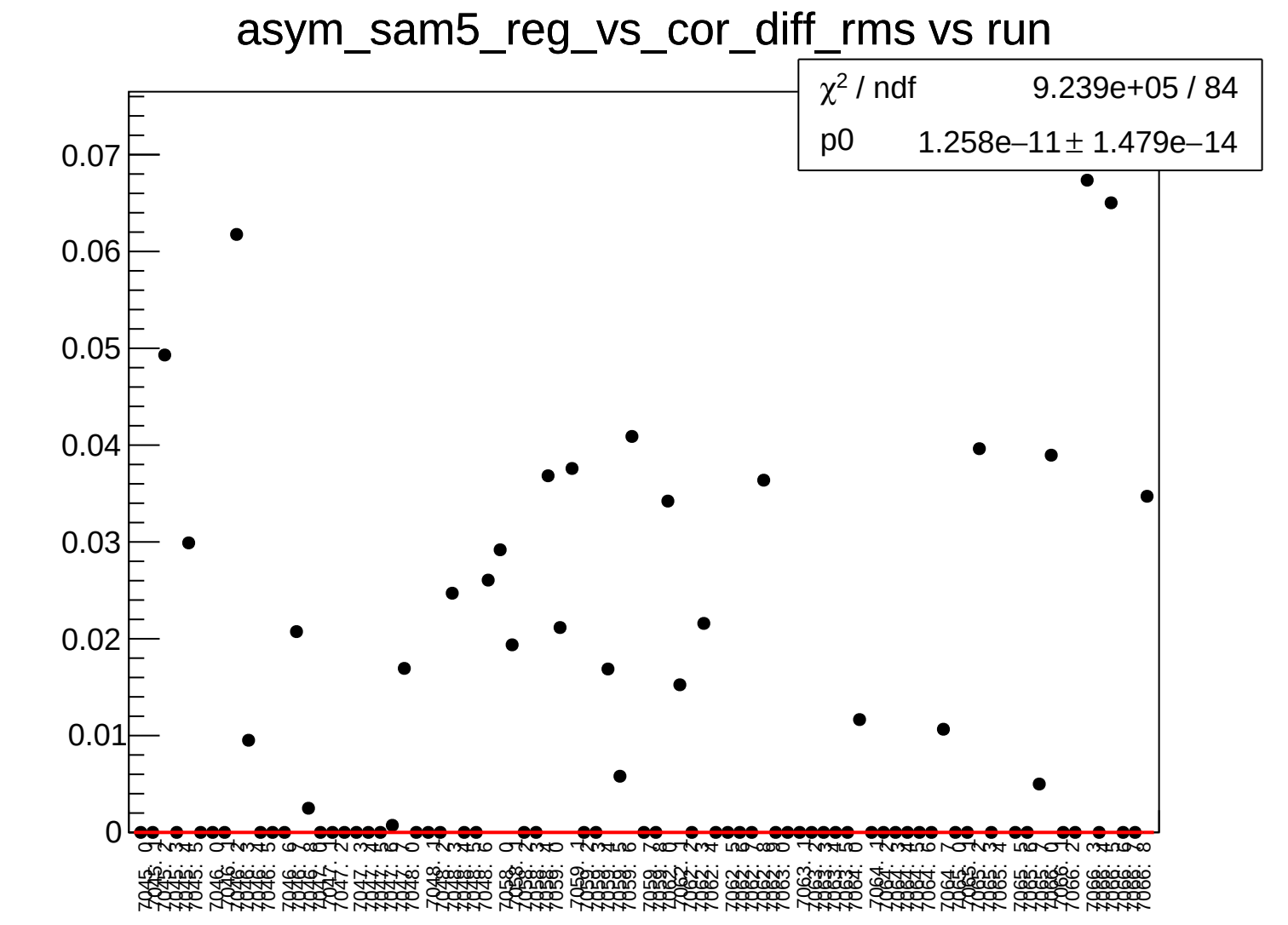

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2.671e+04 / 84
p0 1026 ± 0.8057
1300
1200
1100
1000
900
800

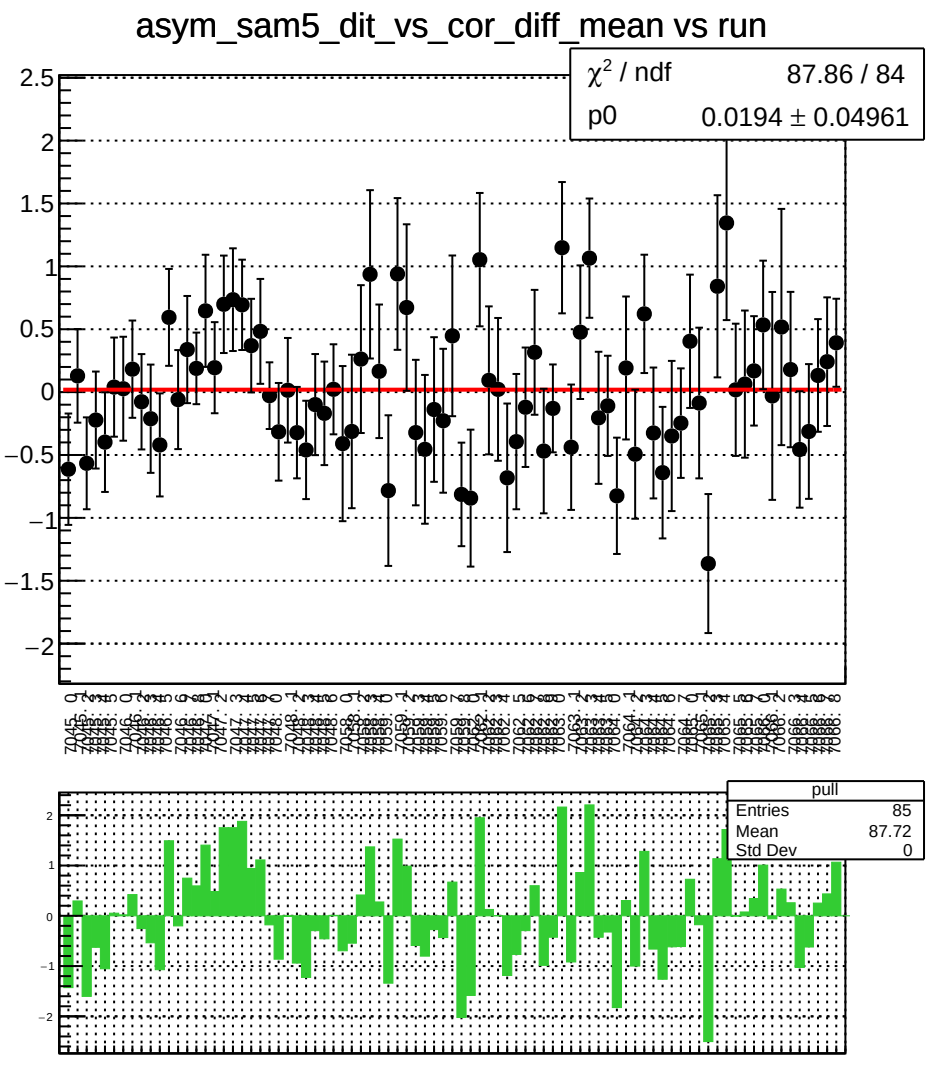

asym_sam5_mean vs run
χ² / ndf 85.62 / 84
p0 1883 ± 1120
pull
Entries 85
Mean 246.7
Std Dev 0

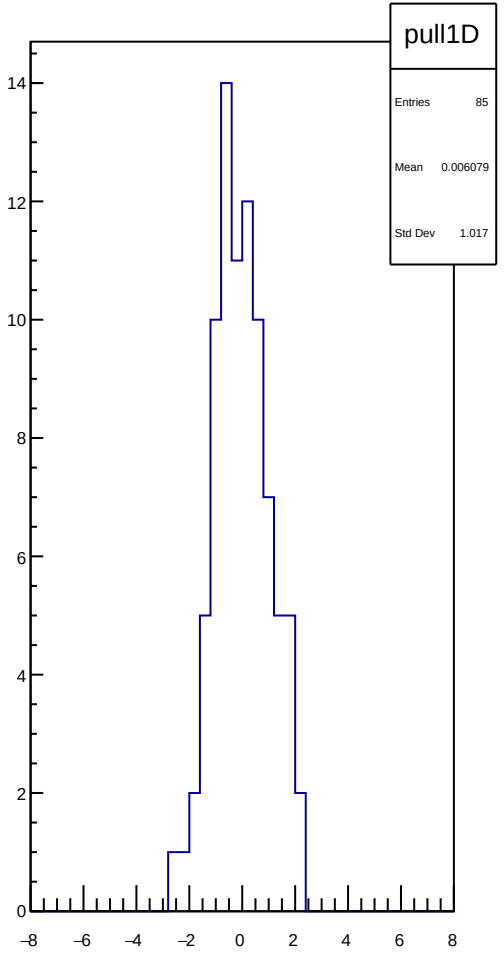

pull1D
Entries 85
Mean 0.01983
Std Dev 1.003

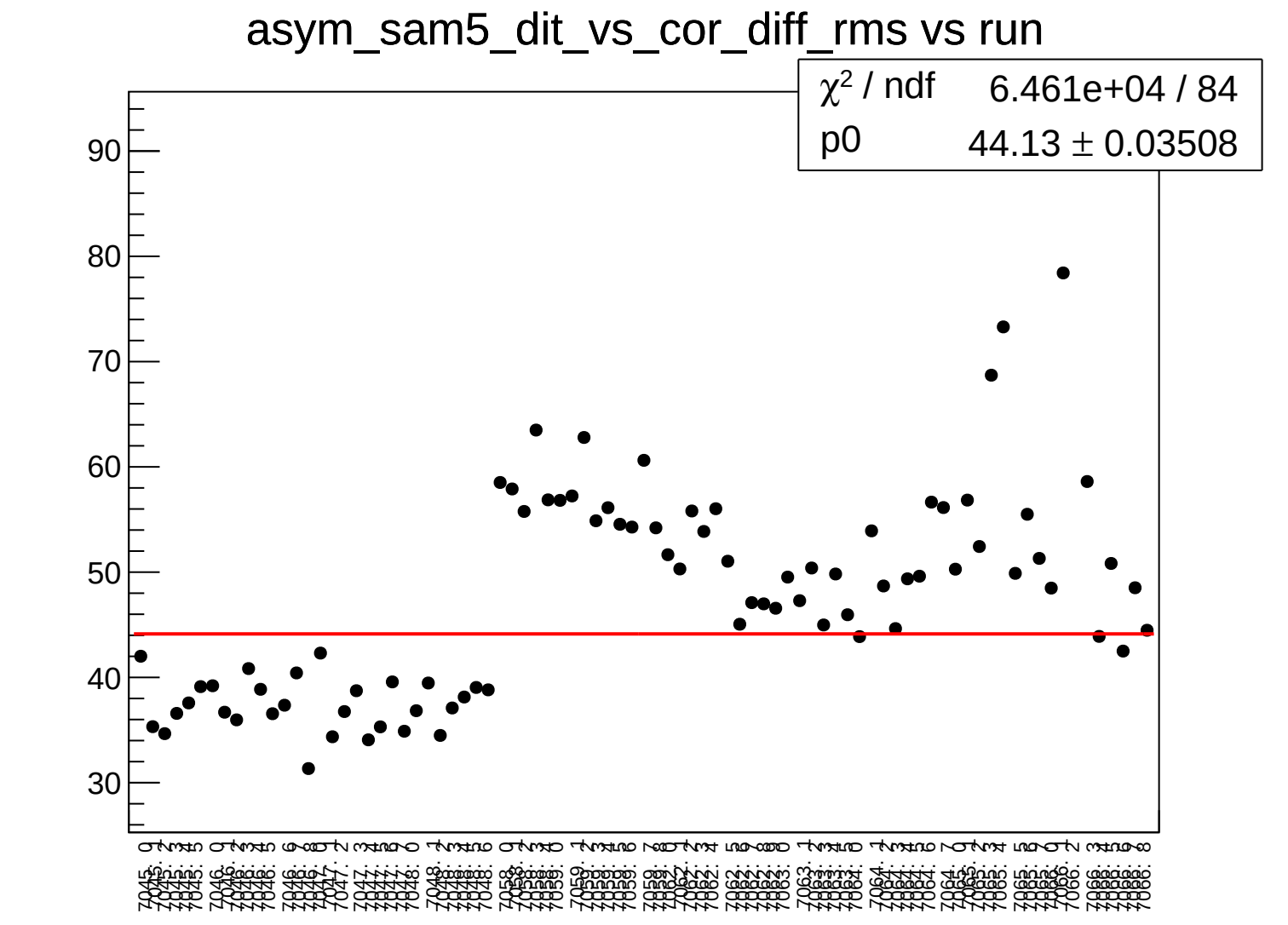

asym_sam5_rms vs run
χ² / ndf 2.725e+04 / 84
p0 1008 ± 0.7917
1300
1200
1100
1000
900
800

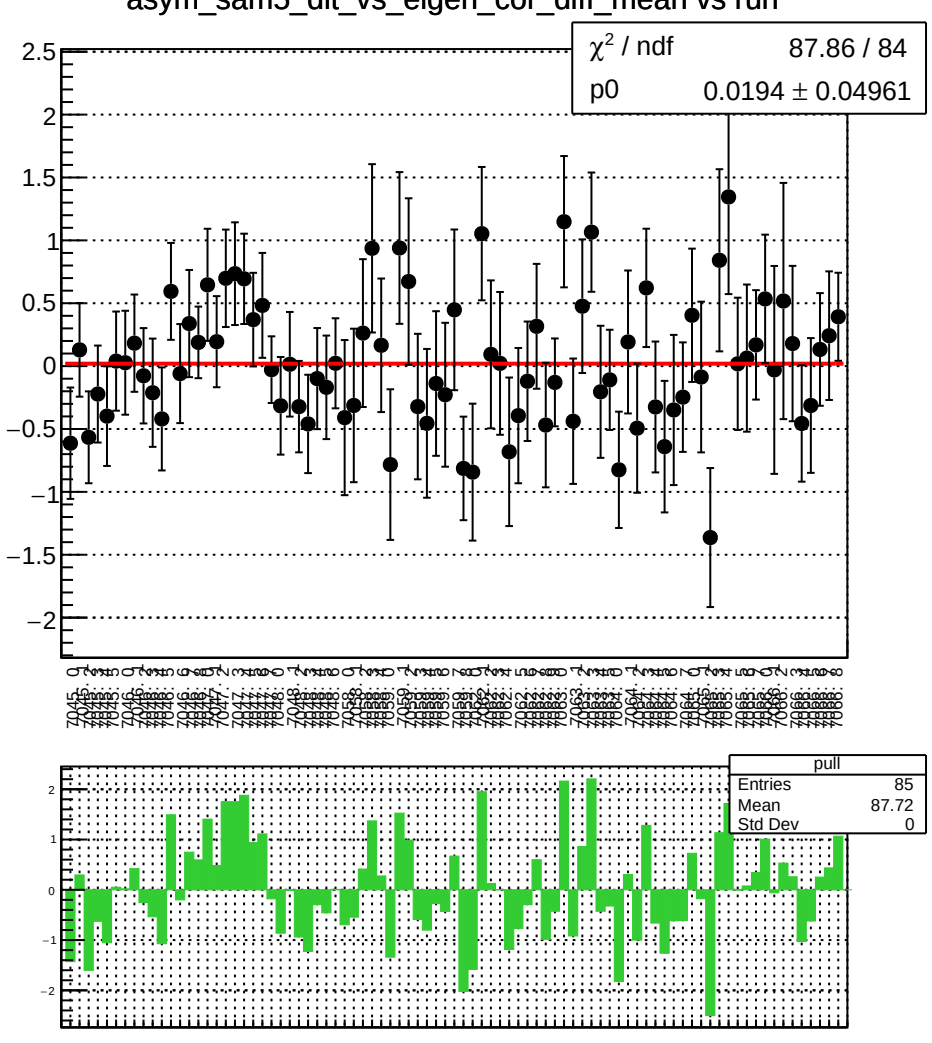

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 89.02 / 84
p0 3.528e−14 ± 2.092e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean 0.493
Std Dev 20.2
pull1D
Entries 85
Mean 0.04424
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

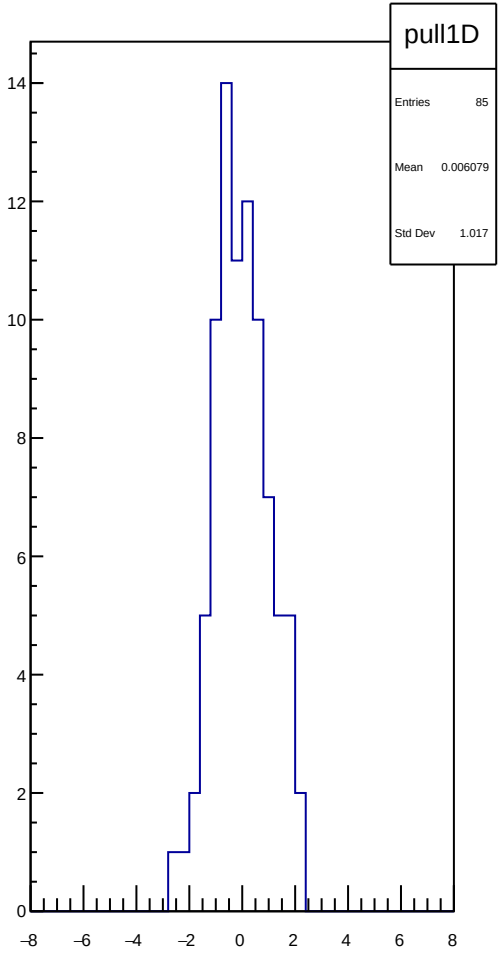

asym_sam5_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.239e+05 / 84
p0 1.258e−11 ± 1.479e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

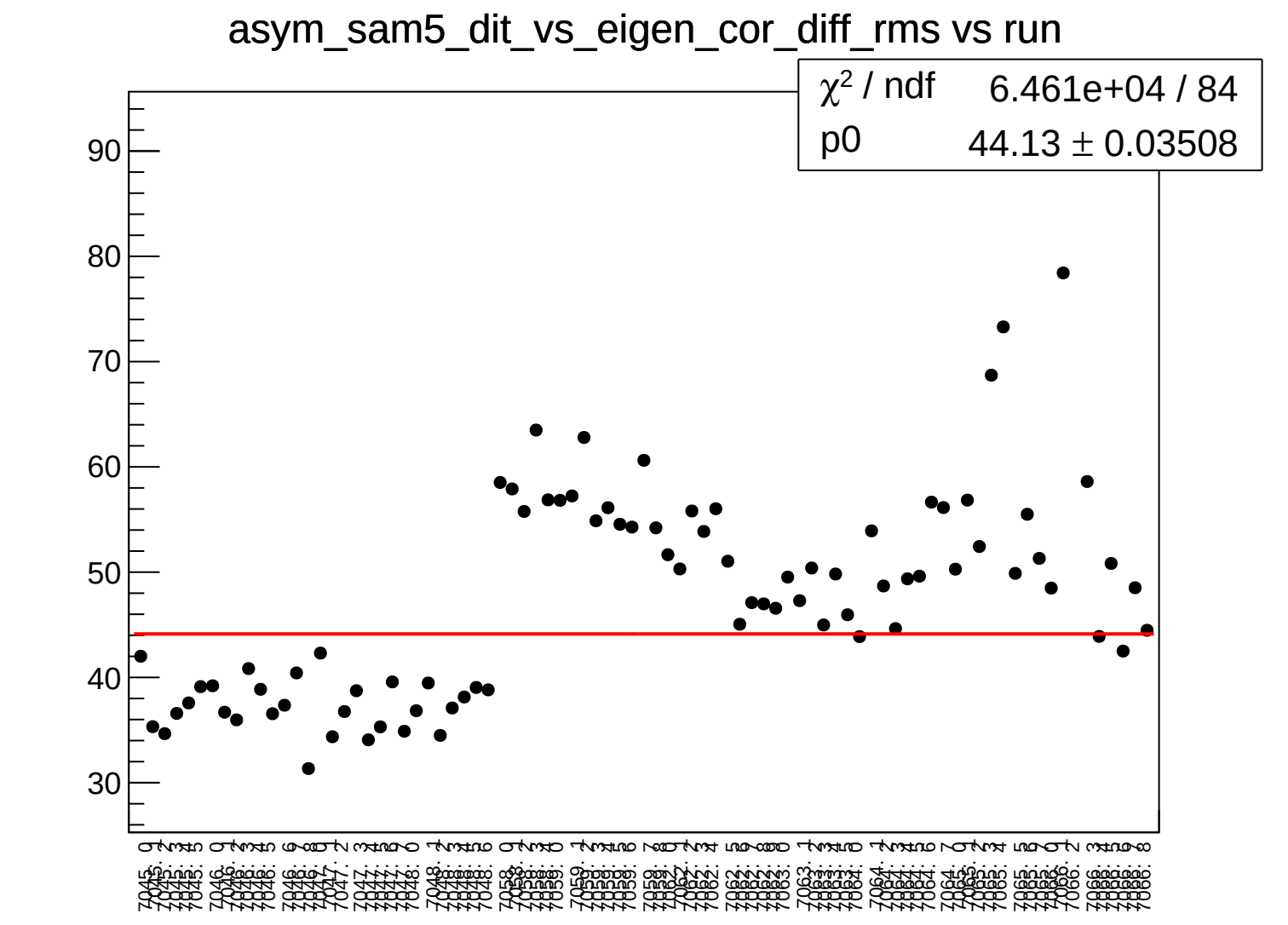

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 87.86 / 84
p0 0.0194 ± 0.04961
pull
Entries 85
Mean 87.72
Std Dev 0

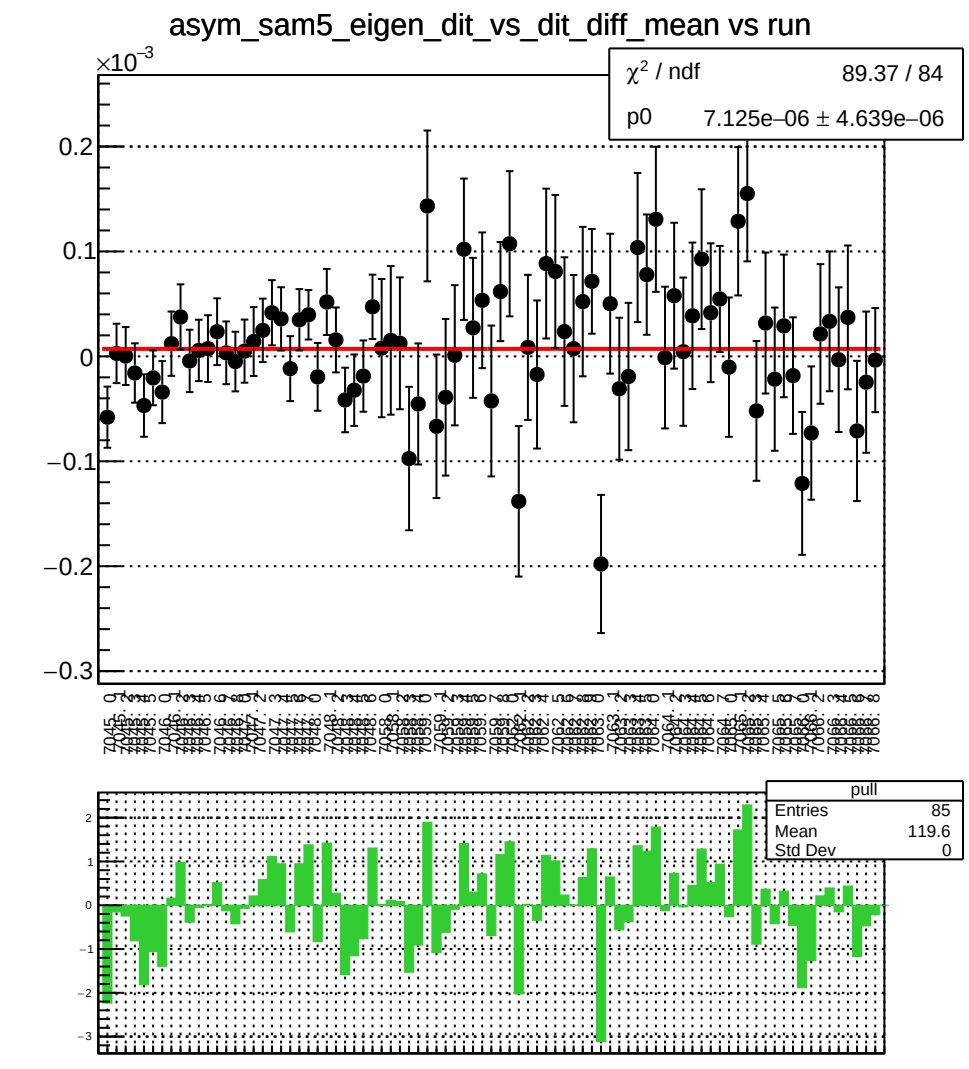

pull1D
Entries 85
Mean 0.006079
Std Dev 1.017

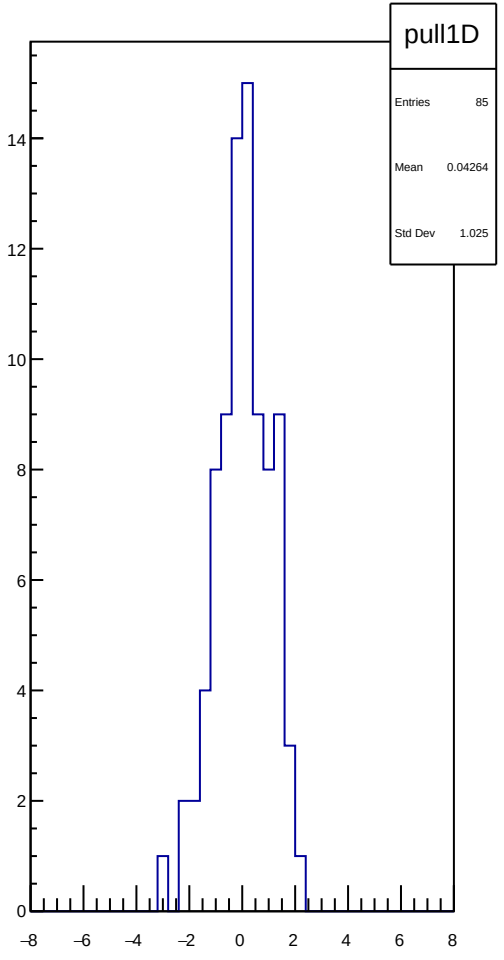

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 6.461e+04 / 84
p0 44.13 ± 0.03508
90
80
70
60
50
40
30

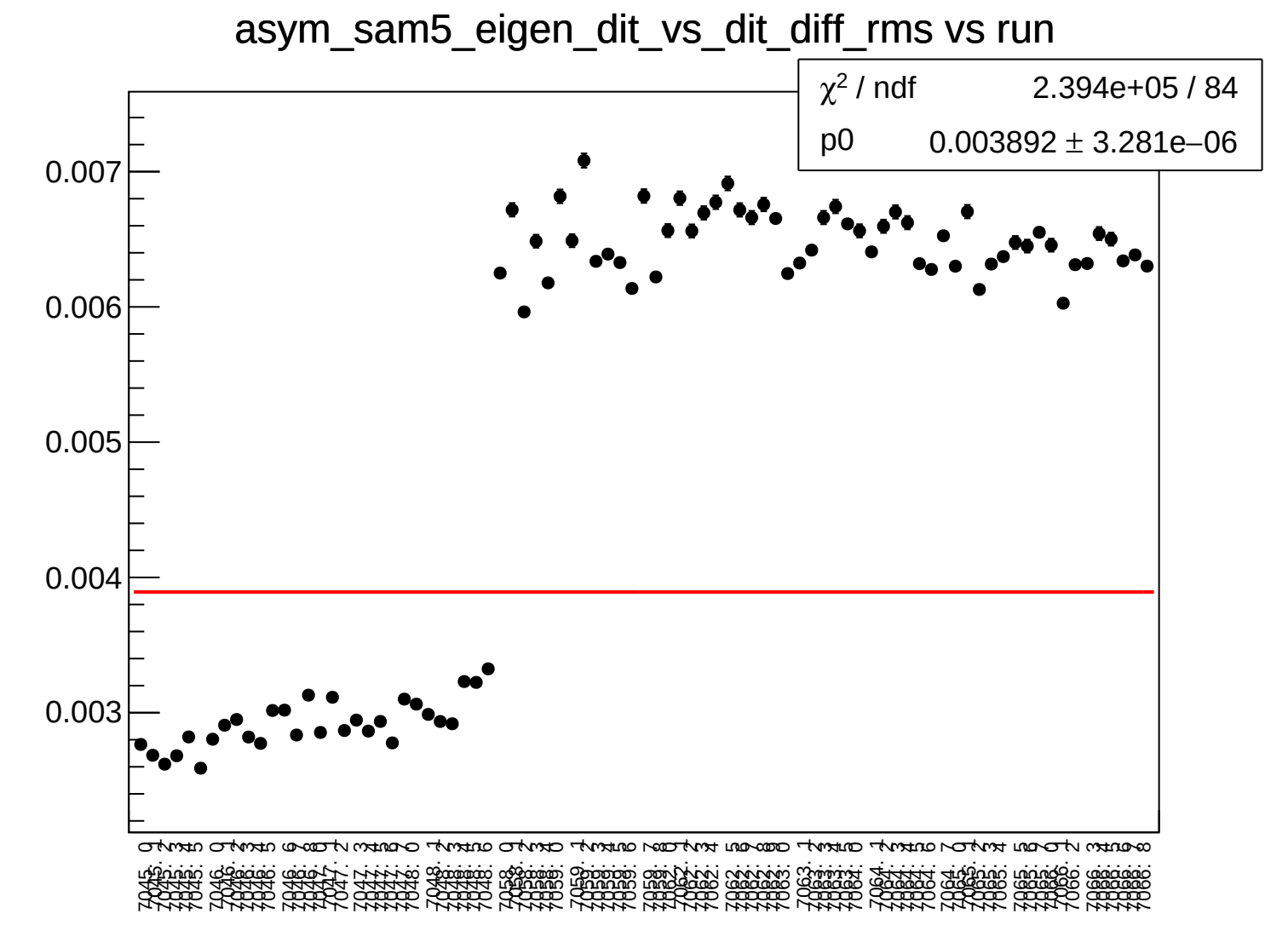

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.86 / 84
p0 0.0194 ± 0.04961
pull
Entries 85
Mean 87.72
Std Dev 0

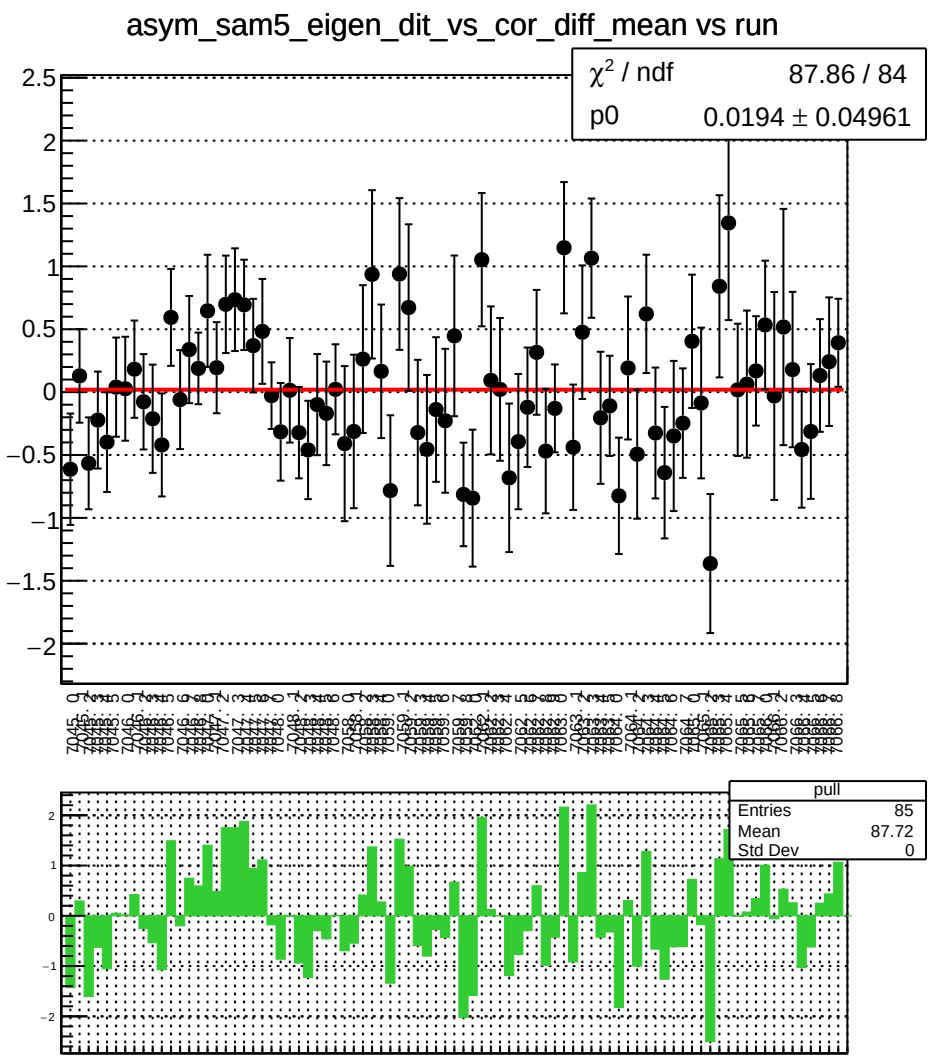

pull1D
Entries 85
Mean 0.006079
Std Dev 1.017

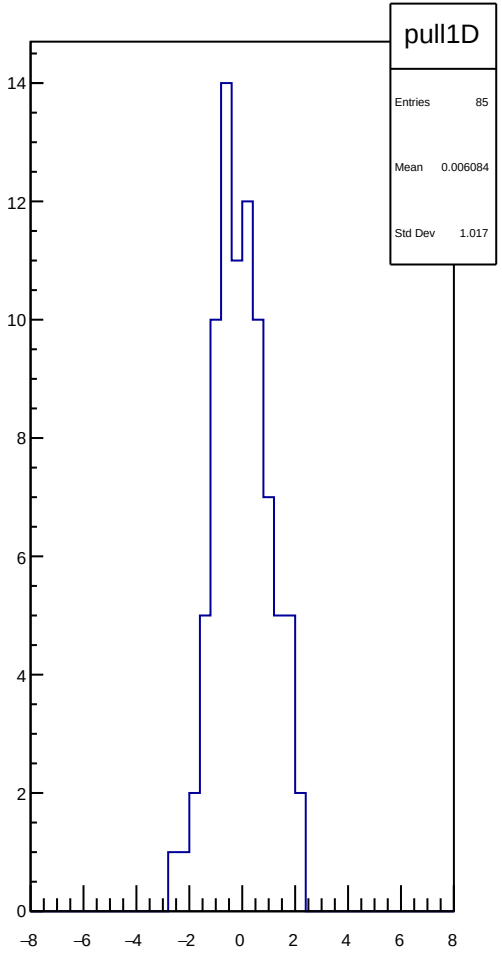

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.461e+04 / 84
p0 44.13 ± 0.03508
90
80
70
60
50
40
30

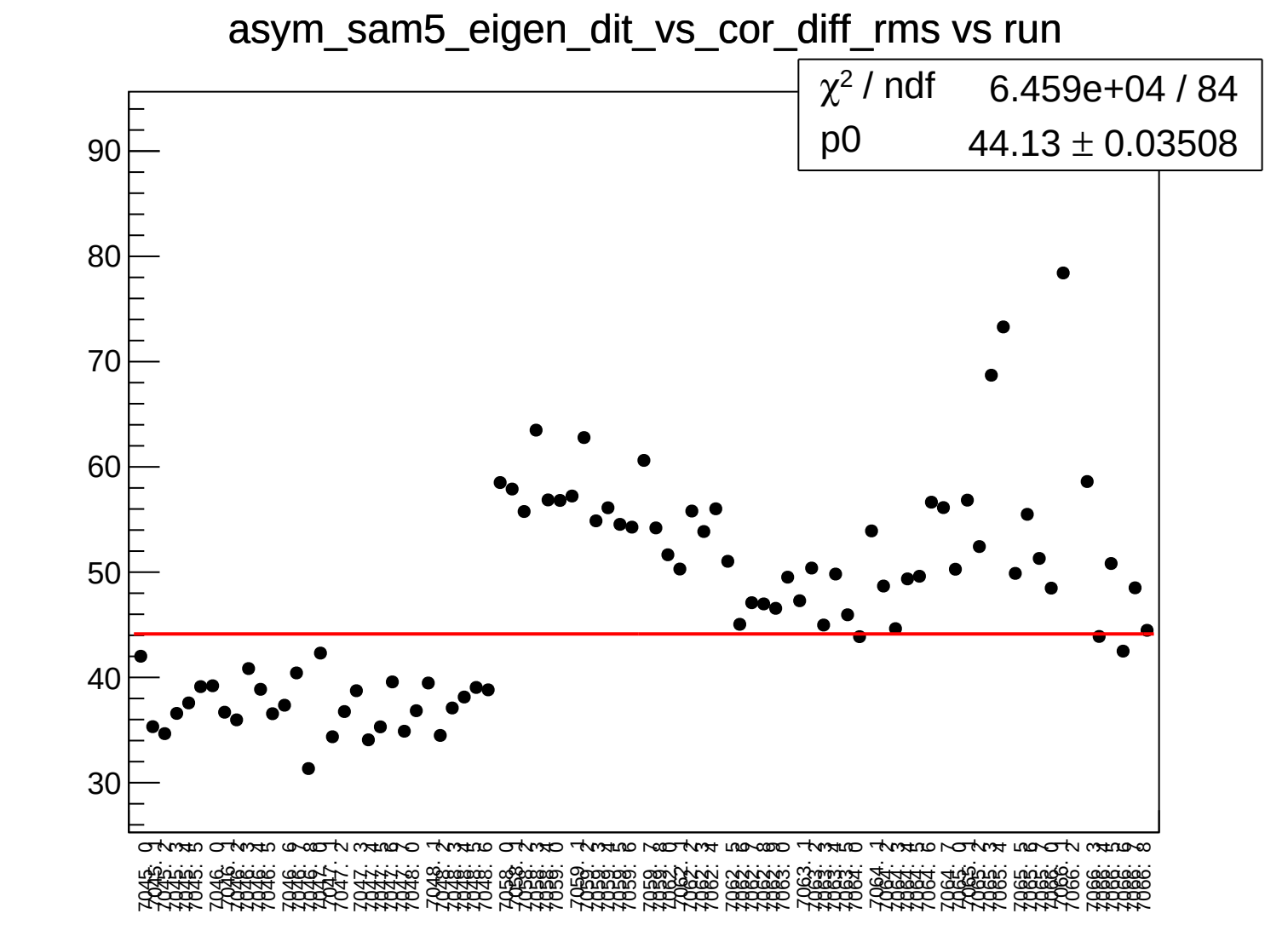

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.37 / 84
p0 7.125e−06 ± 4.639e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 85
Mean 119.6
Std Dev 0
2
1
0
−1
−2
−3

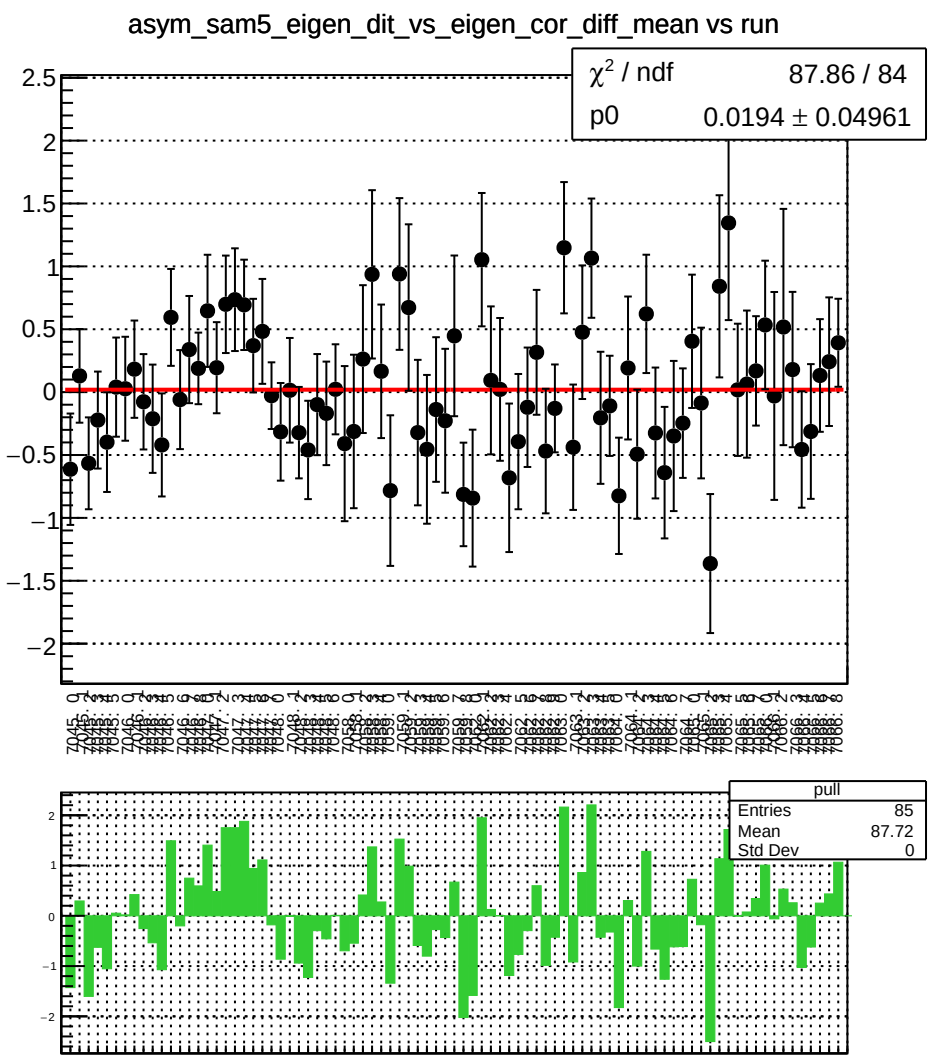

pull1D
Entries 85
Mean 0.04264
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

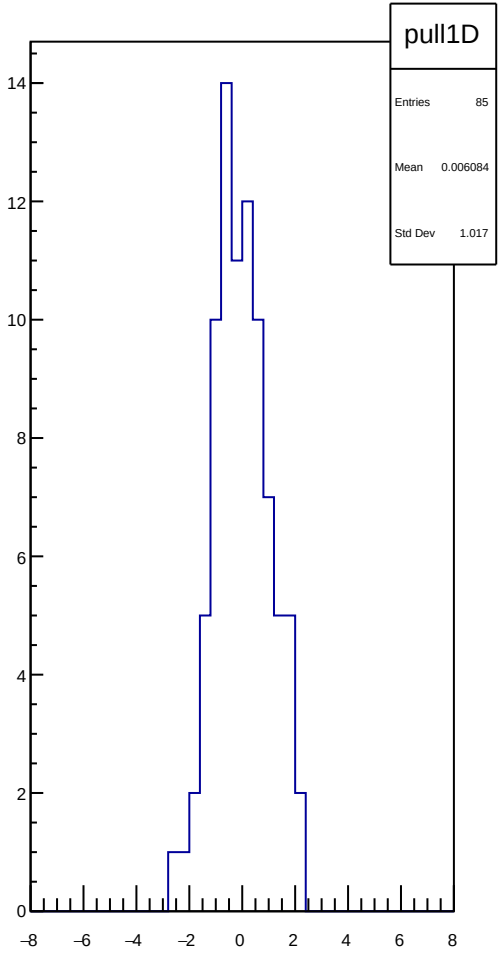

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.394e+05 / 84
p0 0.003892 ± 3.281e−06
0.007
0.006
0.005
0.004
0.003

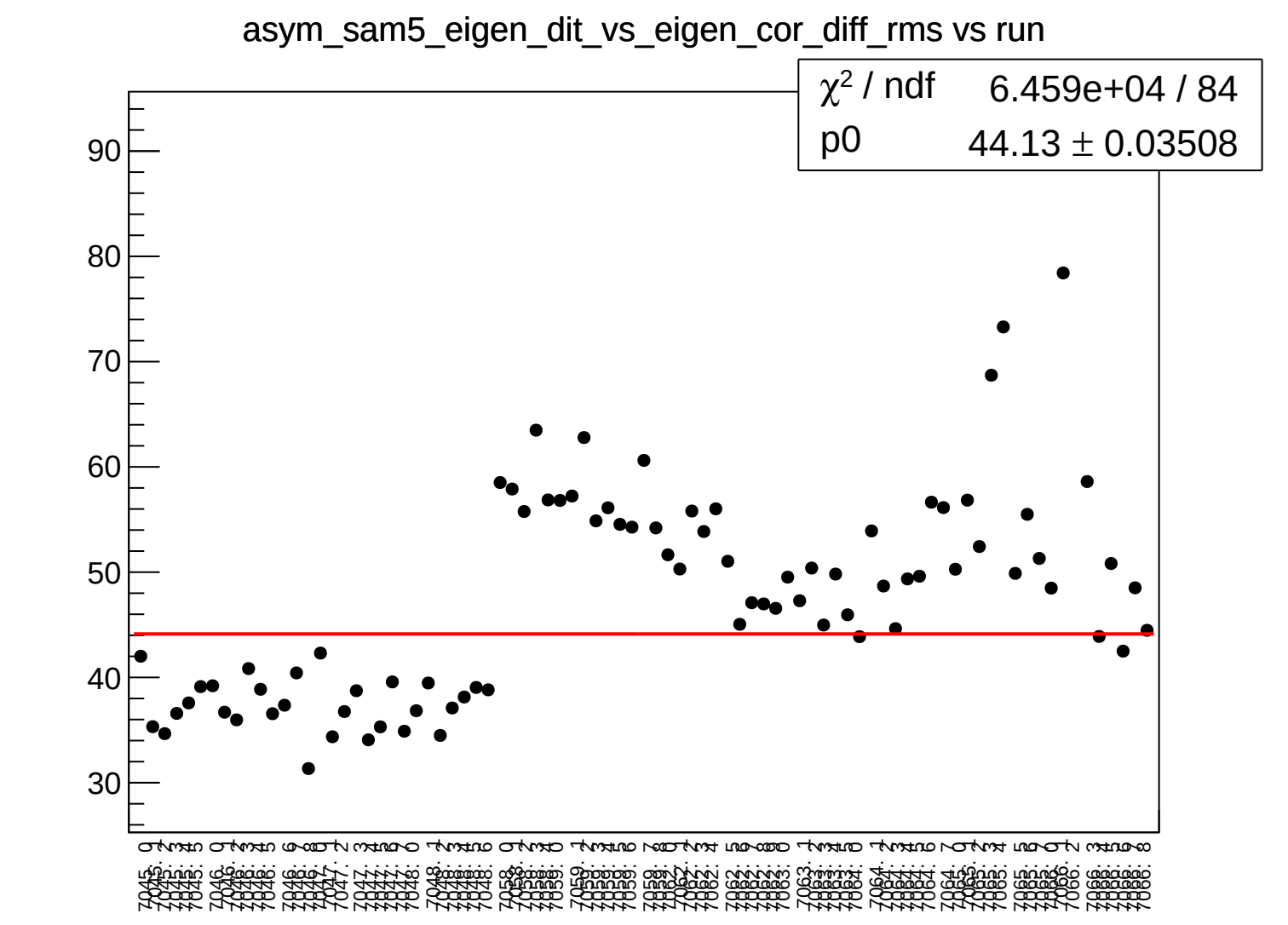

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.86 / 84
p0 0.0194 ± 0.04961
pull
Entries 85
Mean 87.72
Std Dev 0

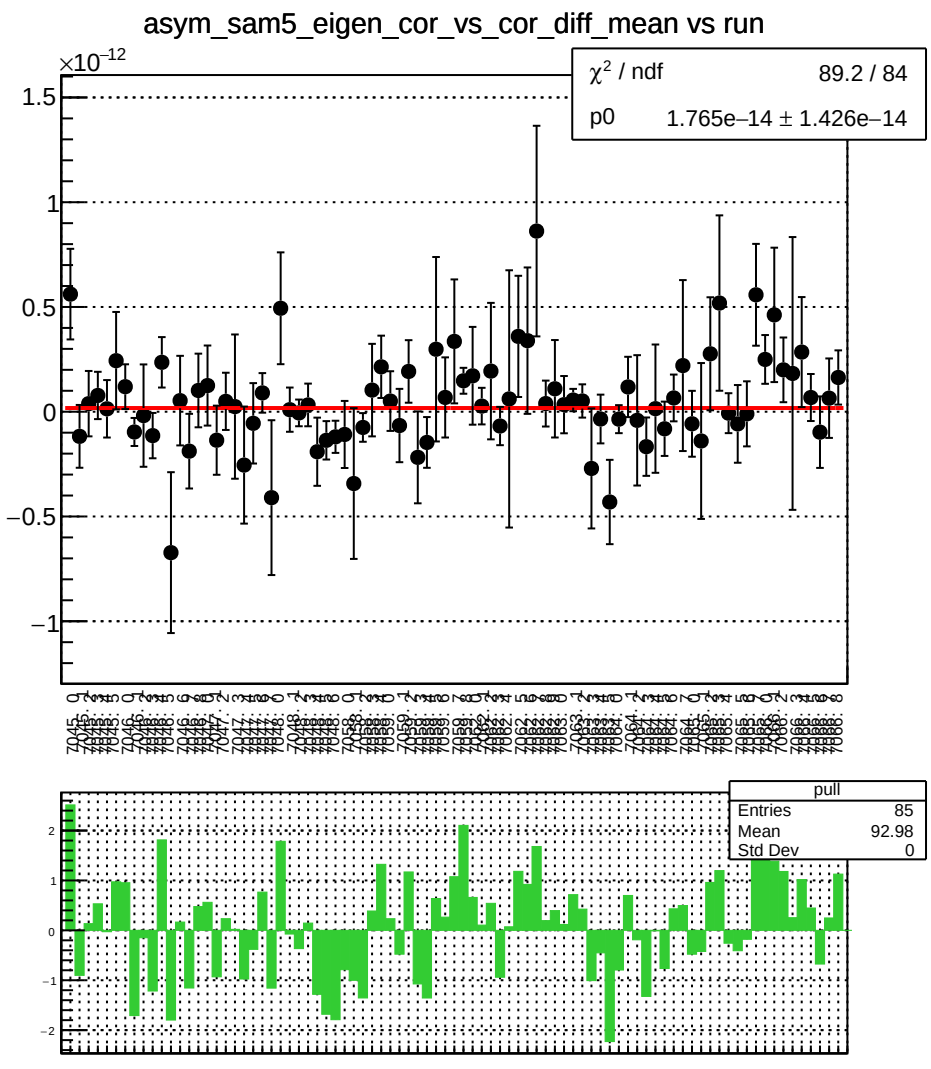

pull1D
Entries 85
Mean 0.006084
Std Dev 1.017

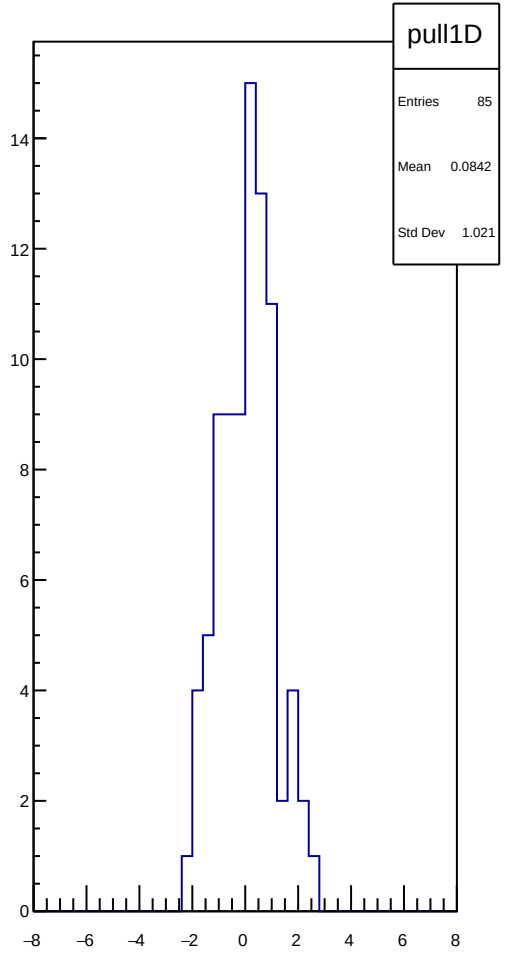

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 84
p0 44.13 ± 0.03508
90
80
70
60
50
40
30

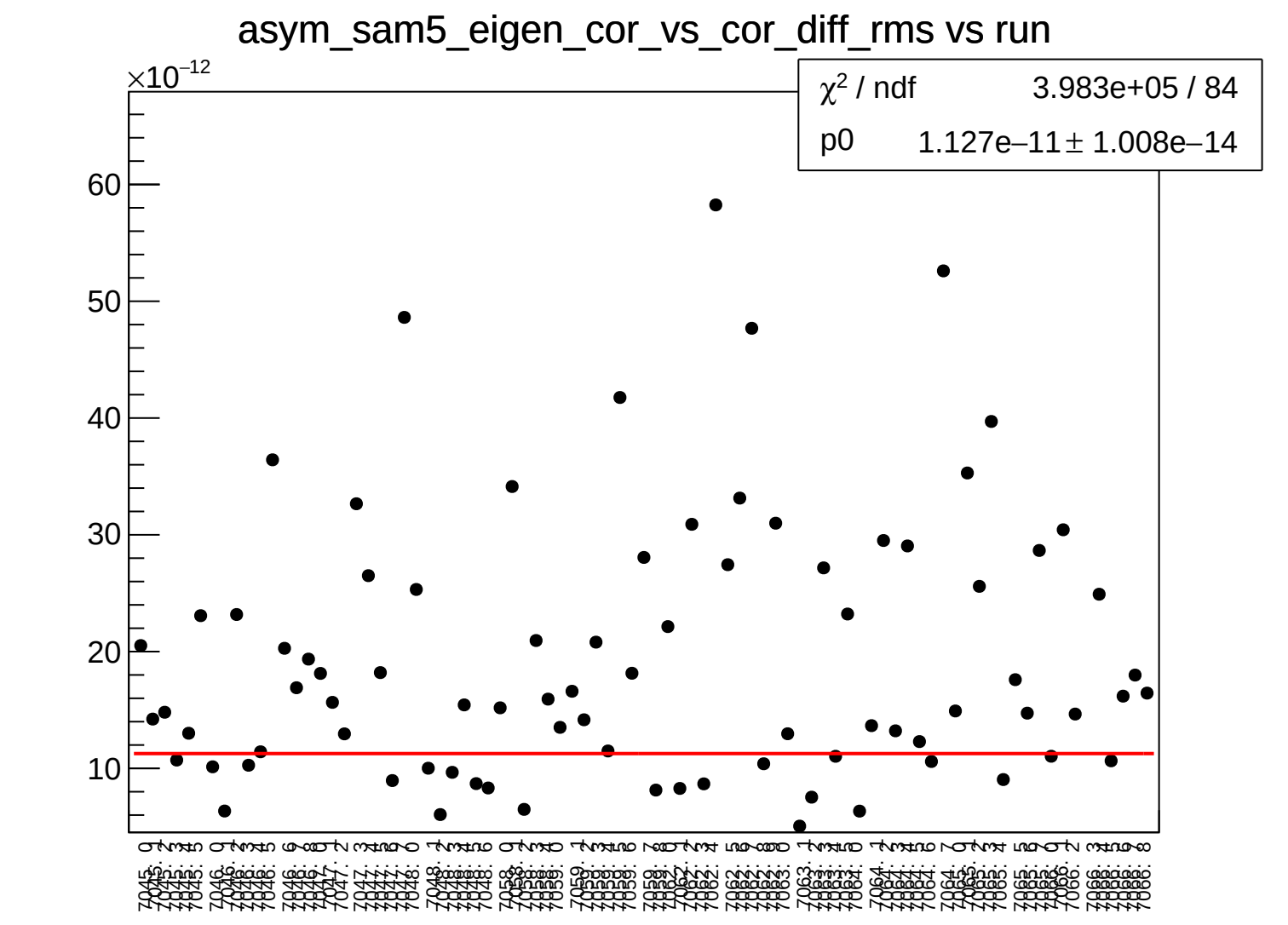

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.86 / 84
p0 0.0194 ± 0.04961
pull
Entries 85
Mean 87.72
Std Dev 0

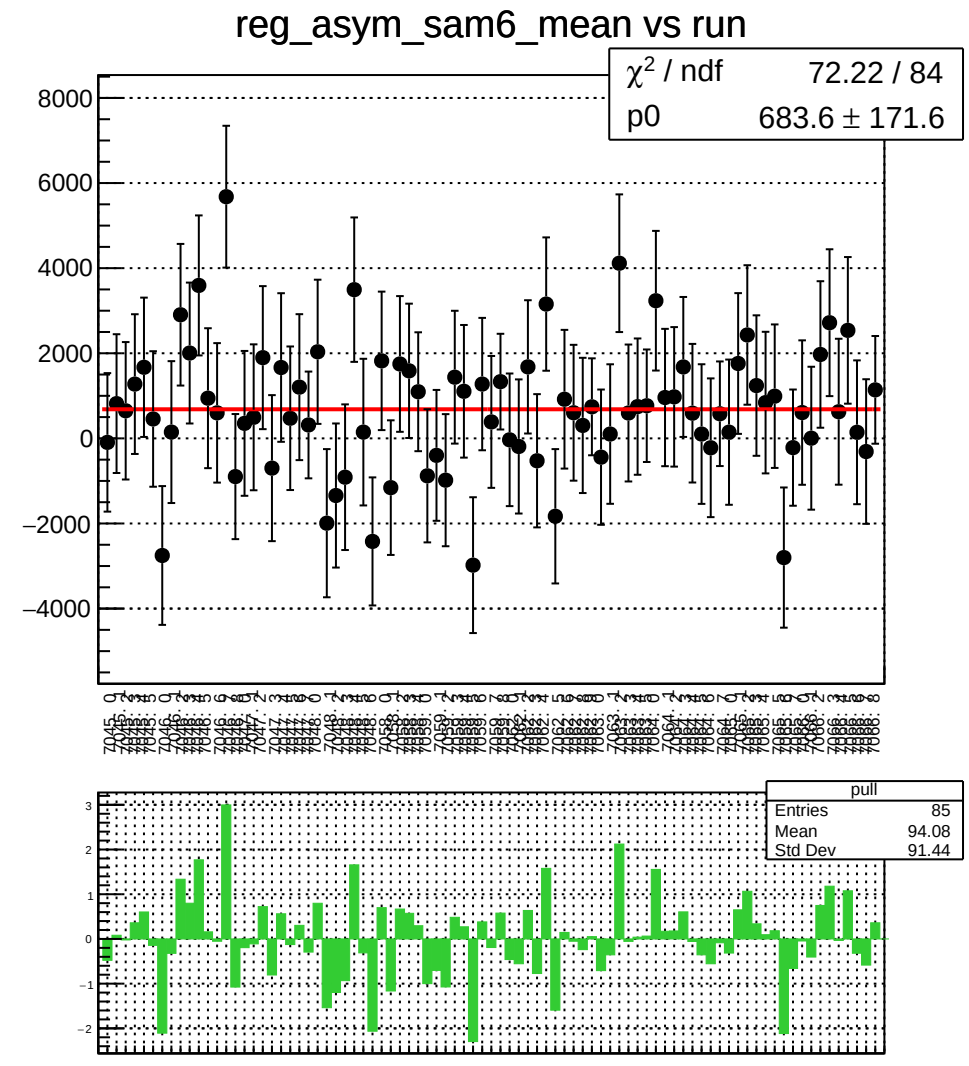

pull1D
Entries 85
Mean 0.006084
Std Dev 1.017

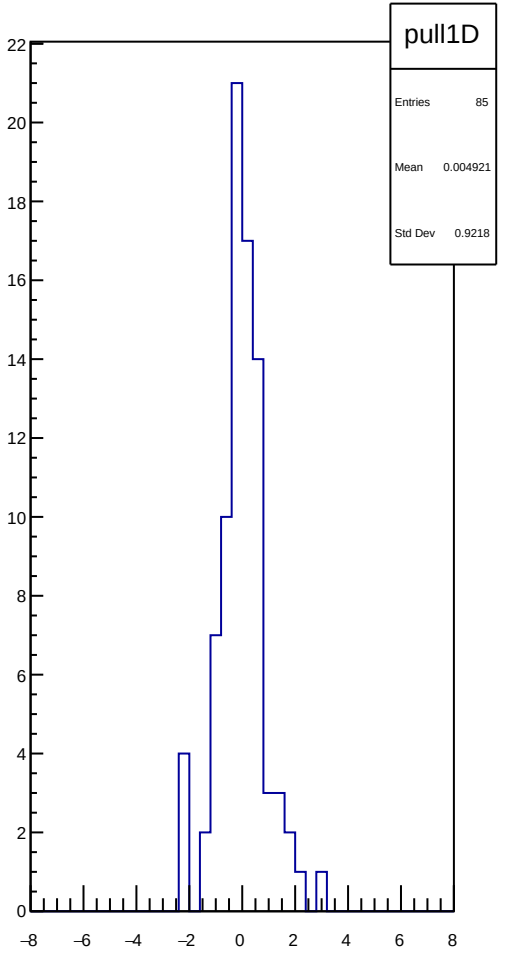

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.459e+04 / 84
p0 44.13 ± 0.03508
90
80
70
60
50
40
30

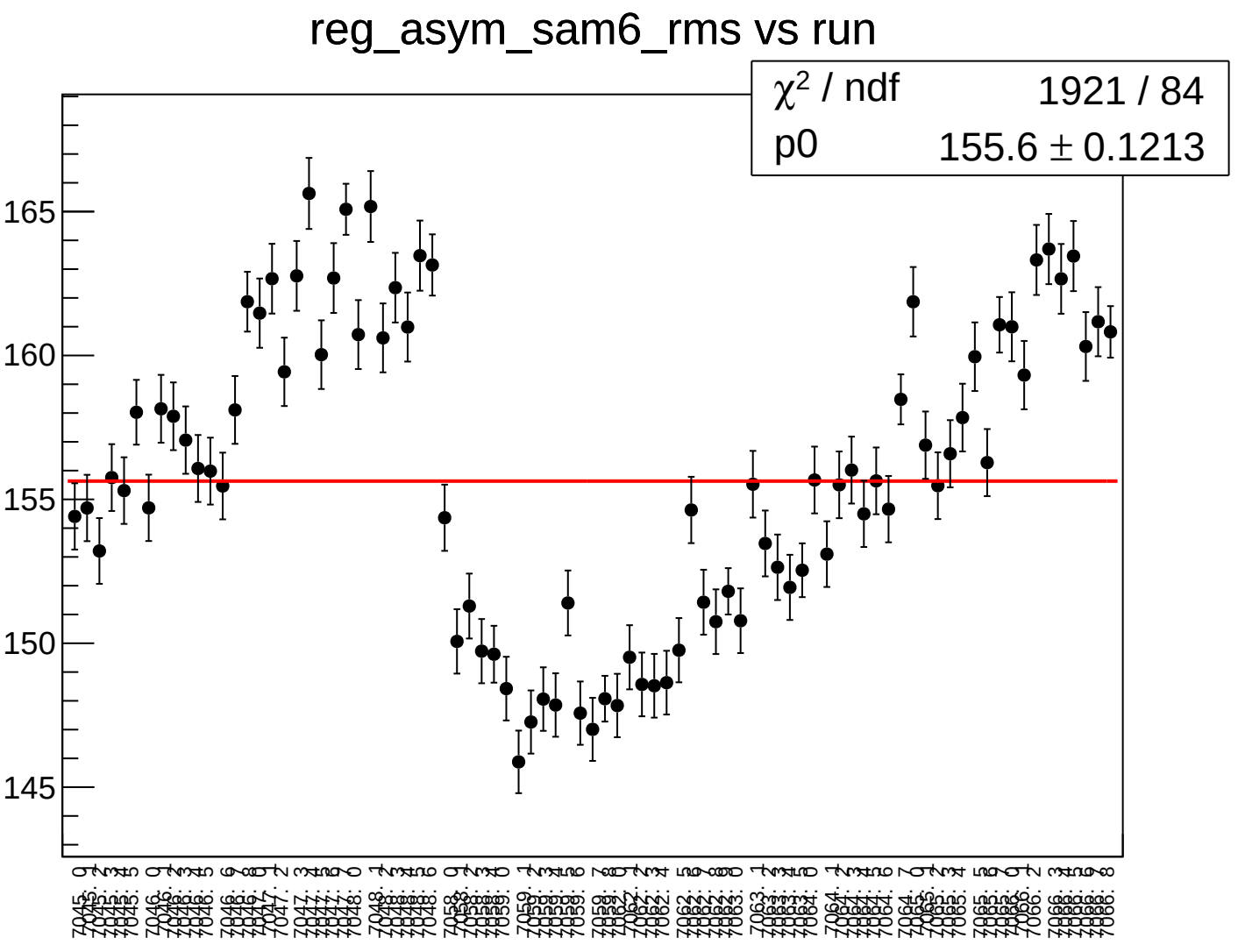

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.2 / 84
p0 1.765e−14 ± 1.426e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 85
Mean 92.98
Std Dev 0
2
1
0
−1
−2

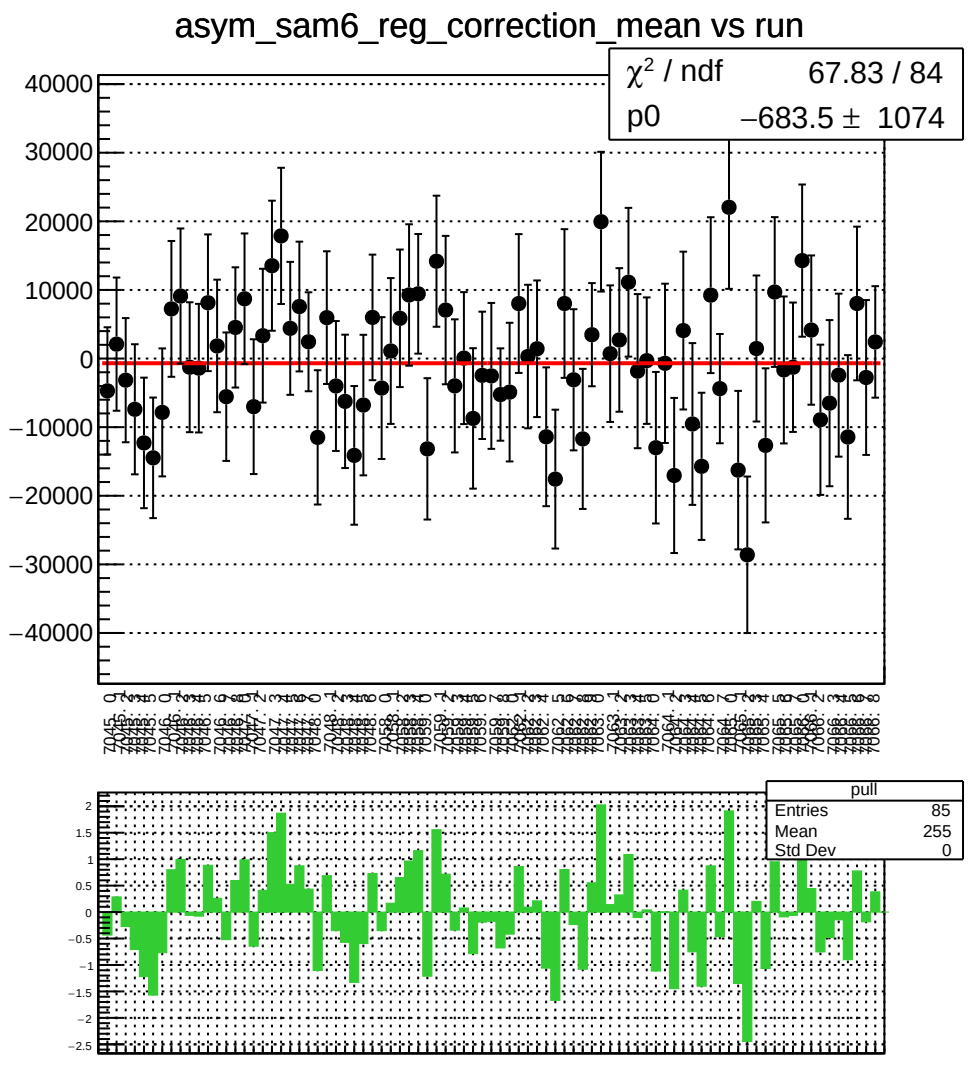

pull1D
Entries 85
Mean 0.0842
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

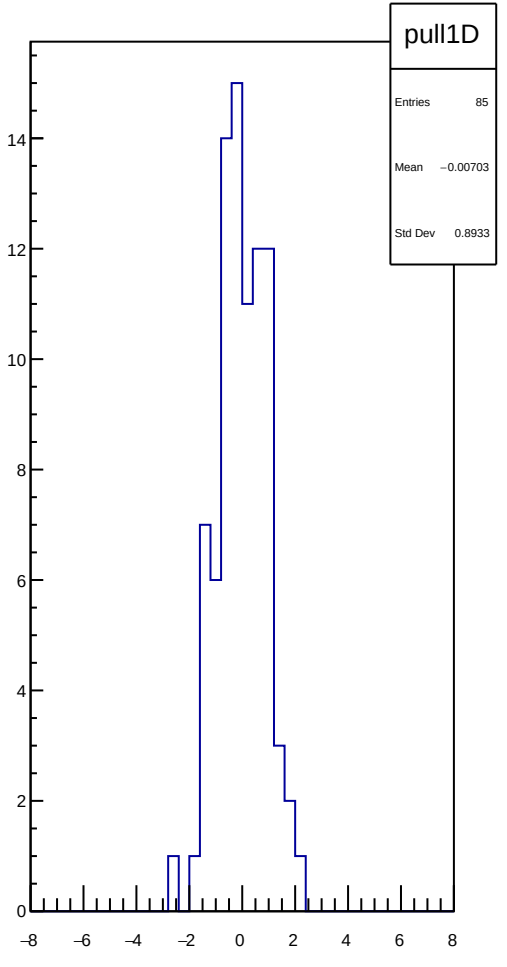

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.983e+05 / 84
p0 1.127e−11 ± 1.008e−14
60
50
40
30
20
10

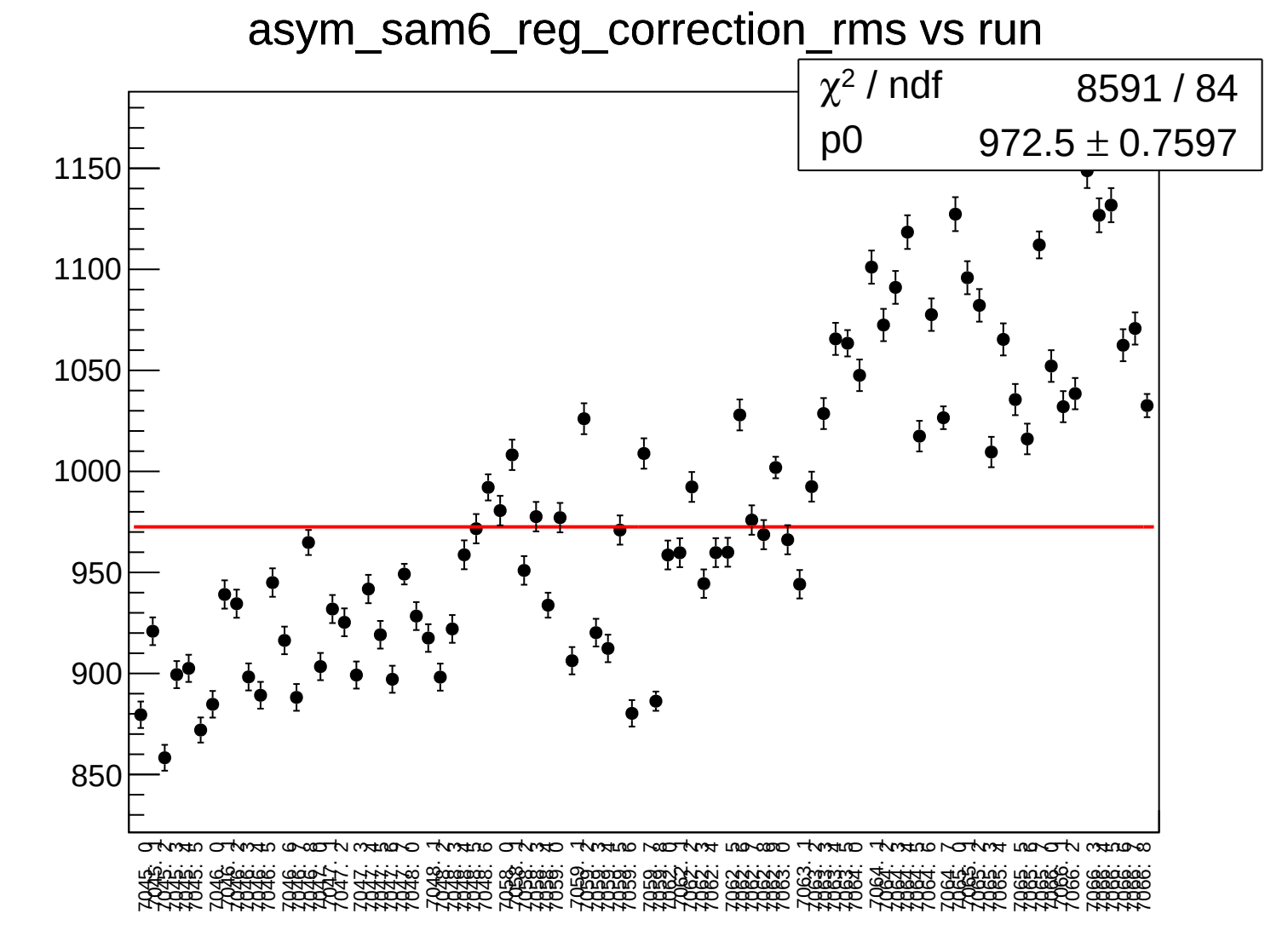

reg_asym_sam6_mean vs run
χ² / ndf 72.22 / 84
p0 683.6 ± 171.6
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 94.08
Std Dev 91.44
3
2
1
0
−1
−2

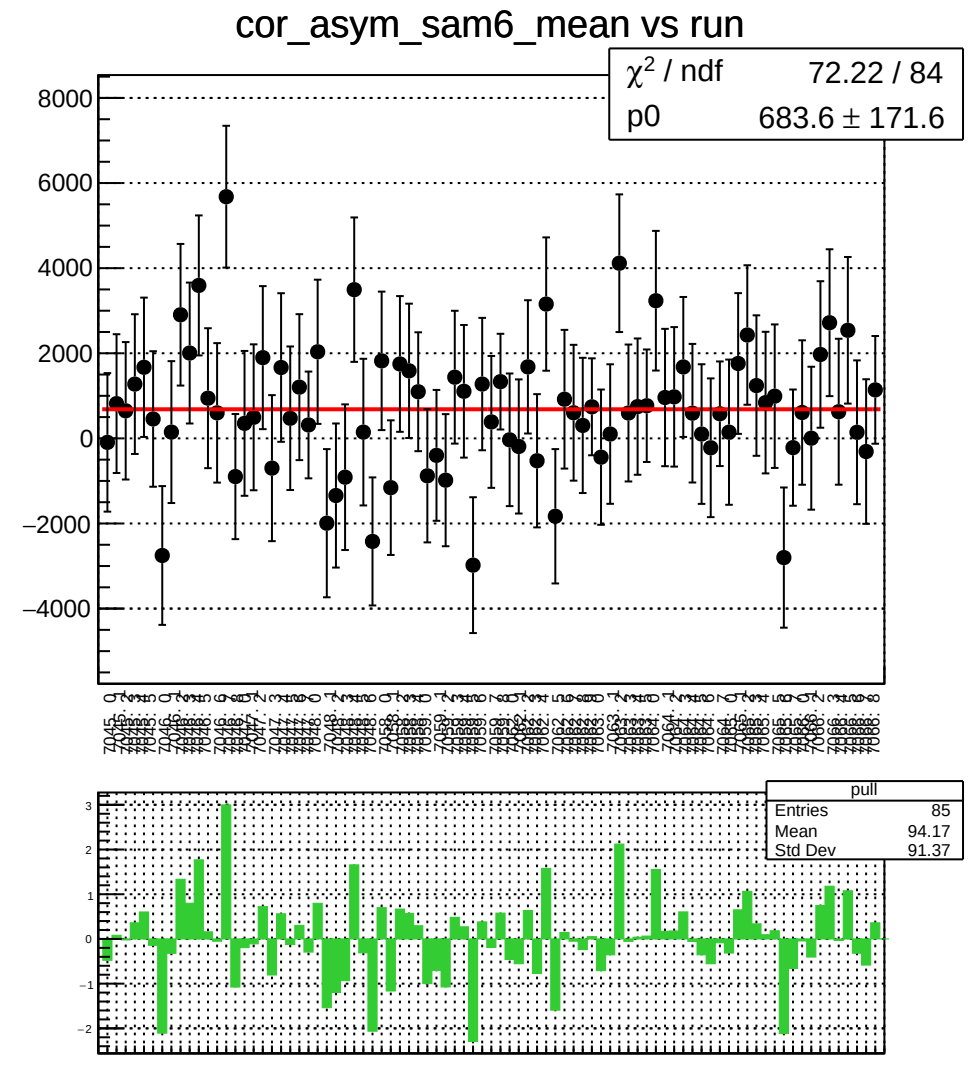

pull1D
Entries 85
Mean 0.004921
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

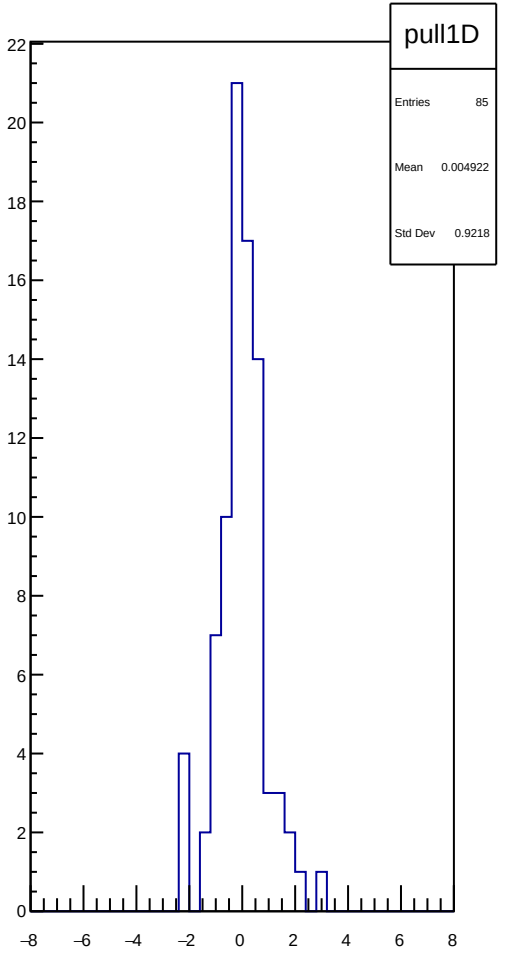

reg_asym_sam6_rms vs run
χ² / ndf 1921 / 84
p0 155.6 ± 0.1213
165
160
155
150
145

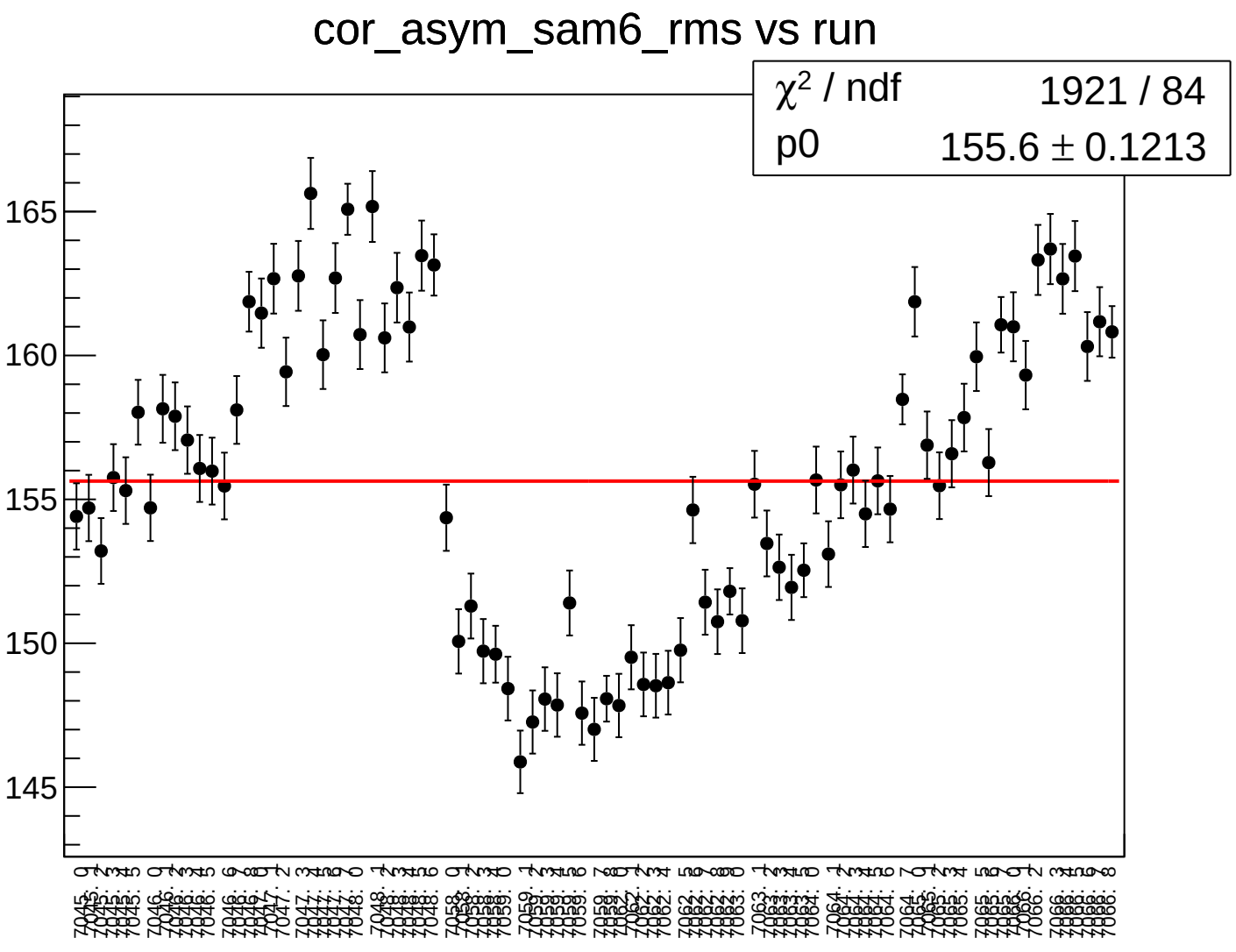

asym_sam6_reg_correction_mean vs run
χ² / ndf 67.83 / 84
p0 −683.5 ± 1074
pull
Entries 85
Mean 255
Std Dev 0

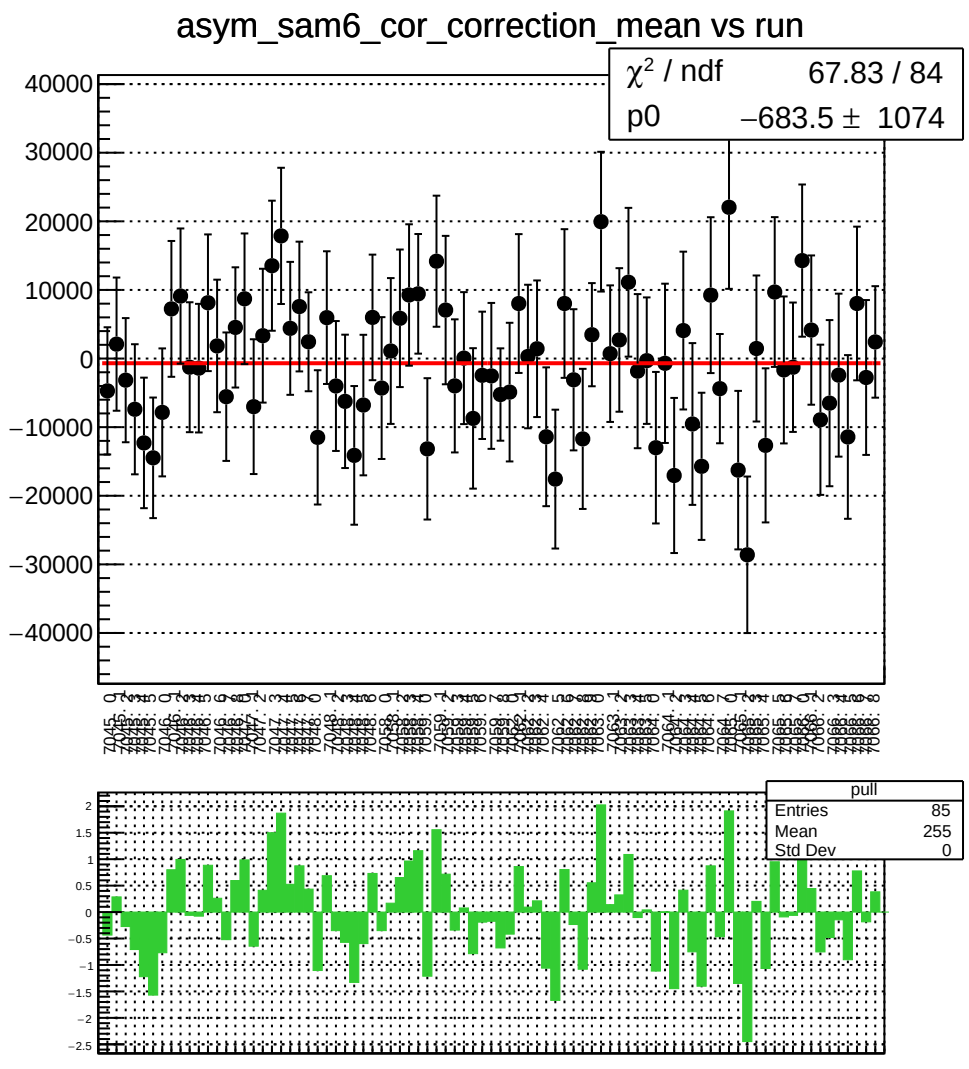

pull1D
Entries 85
Mean −0.00703
Std Dev 0.8933

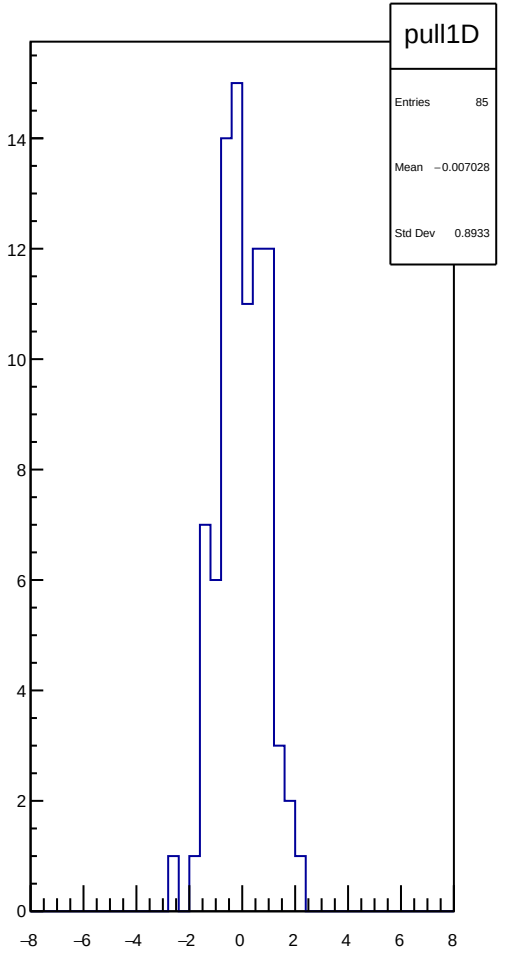

asym_sam6_reg_correction_rms vs run
χ² / ndf 8591 / 84
p0 972.5 ± 0.7597
1150
1100
1050
1000
950
900
850

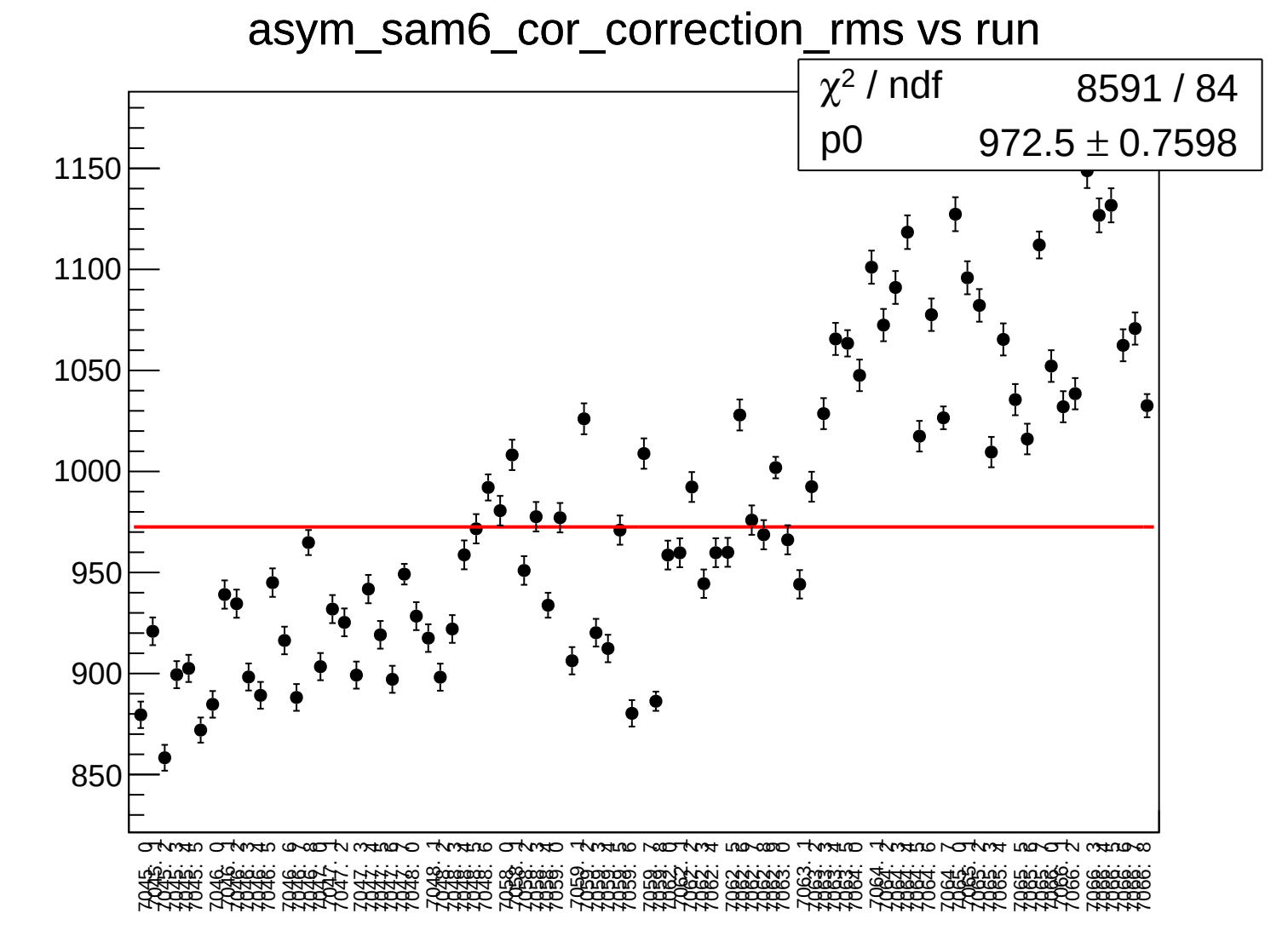

cor_asym_sam6_mean vs run
χ² / ndf 72.22 / 84
p0 683.6 ± 171.6
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 94.17
Std Dev 91.37
3
2
1
0
−1
−2

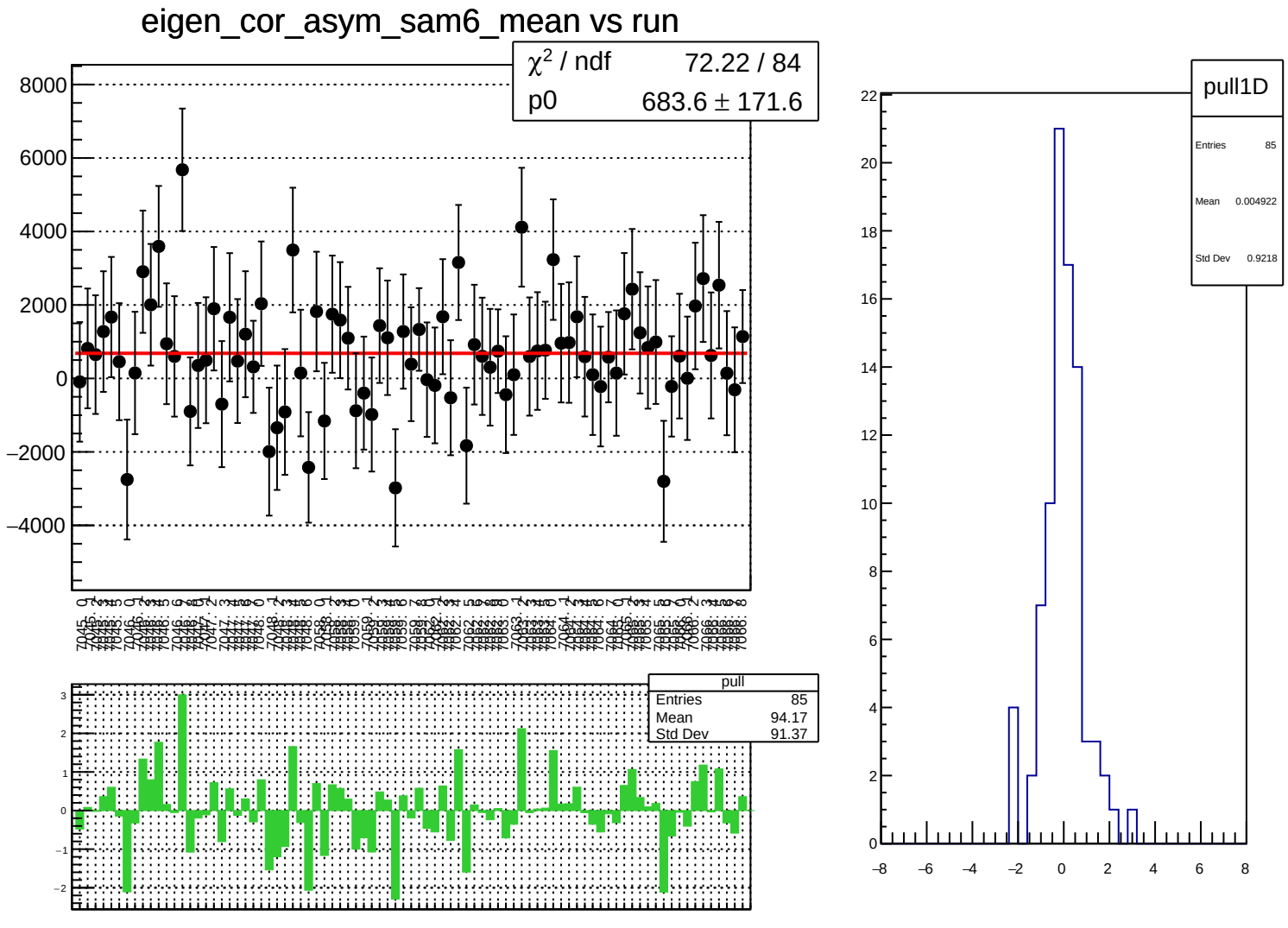

pull1D
Entries 85
Mean 0.004922
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

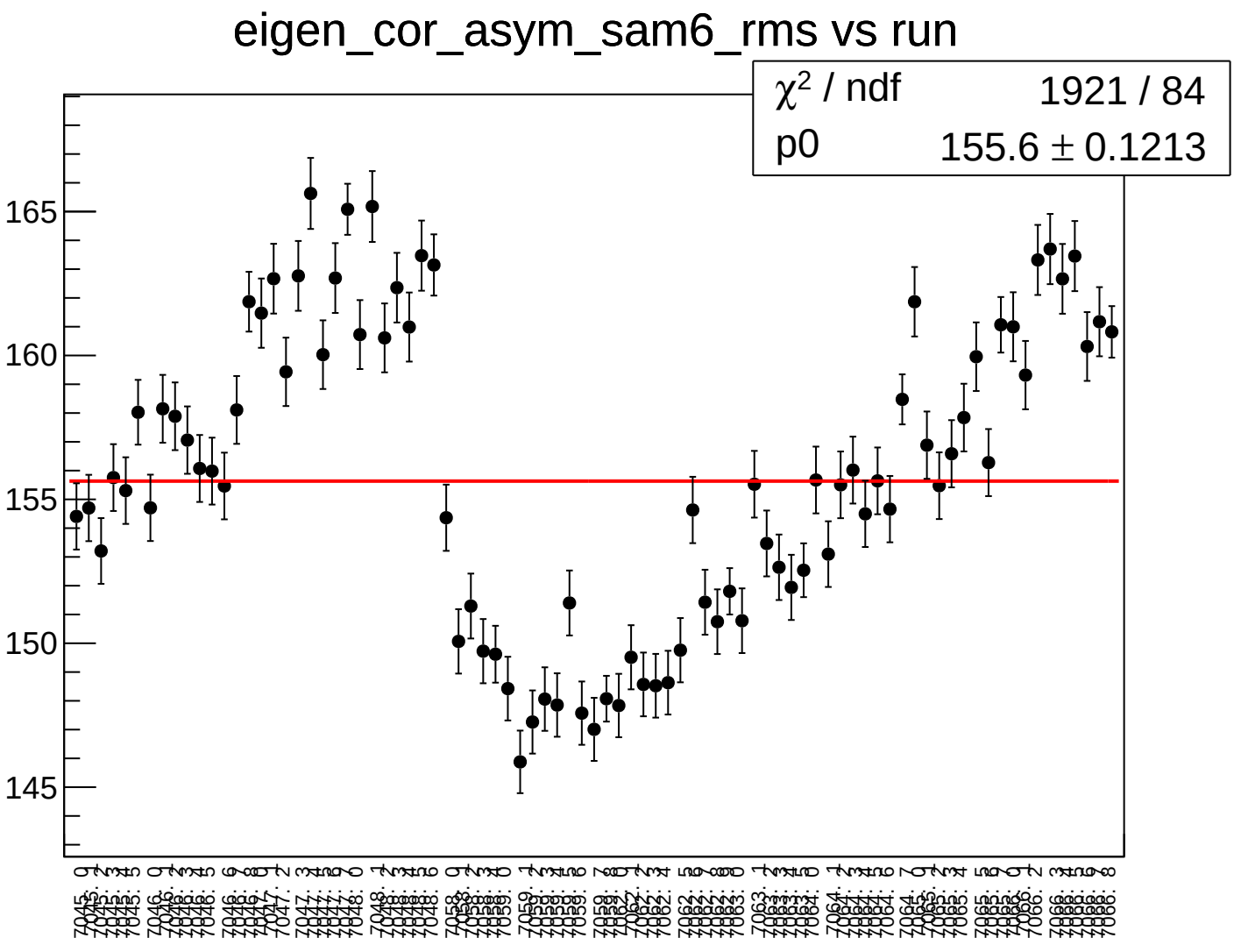

cor_asym_sam6_rms vs run
χ² / ndf 1921 / 84
p0 155.6 ± 0.1213
165
160
155
150
145

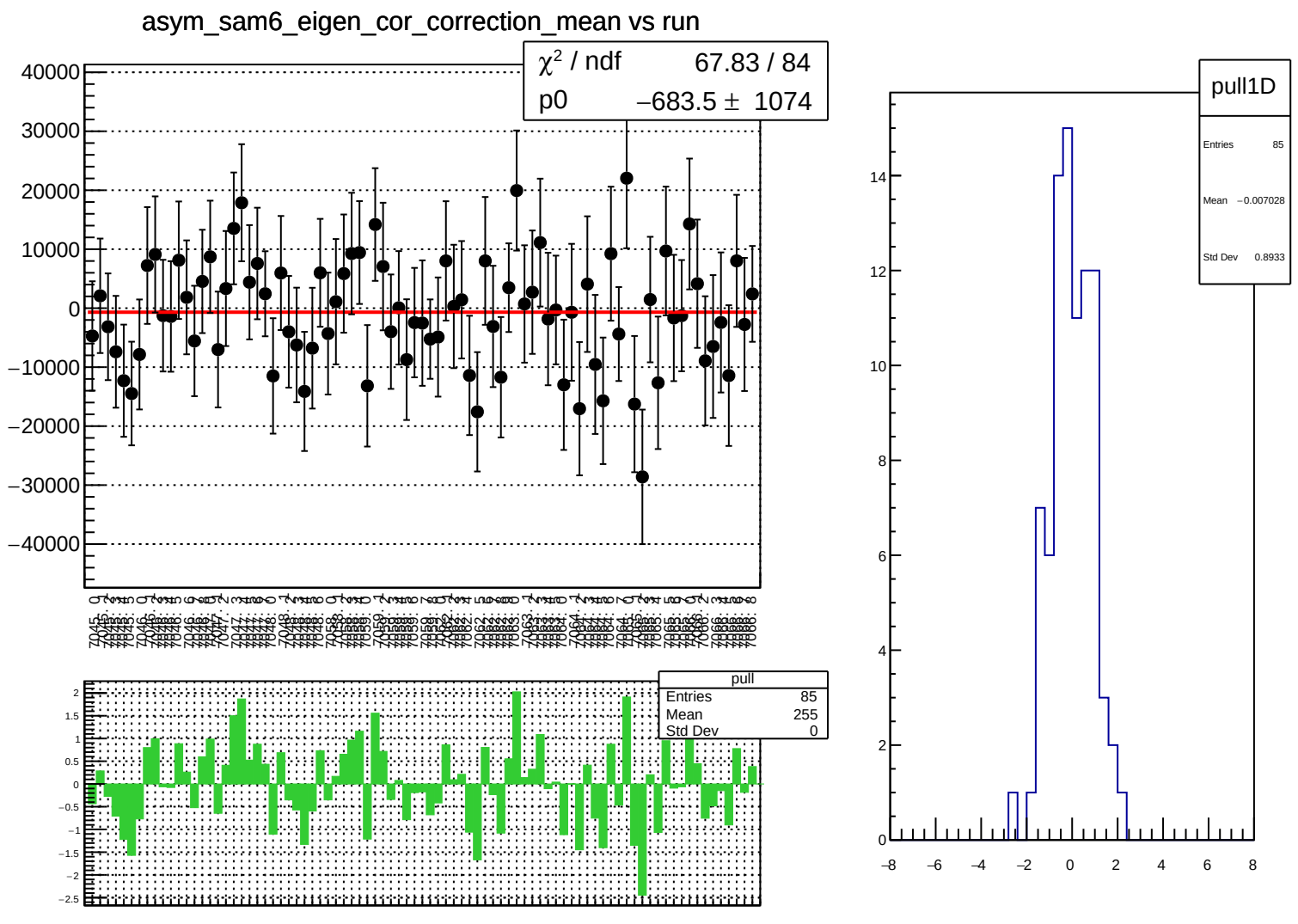

asym_sam6_cor_correction_mean vs run
χ² / ndf 67.83 / 84
p0 −683.5 ± 1074
pull
Entries 85
Mean 255
Std Dev 0

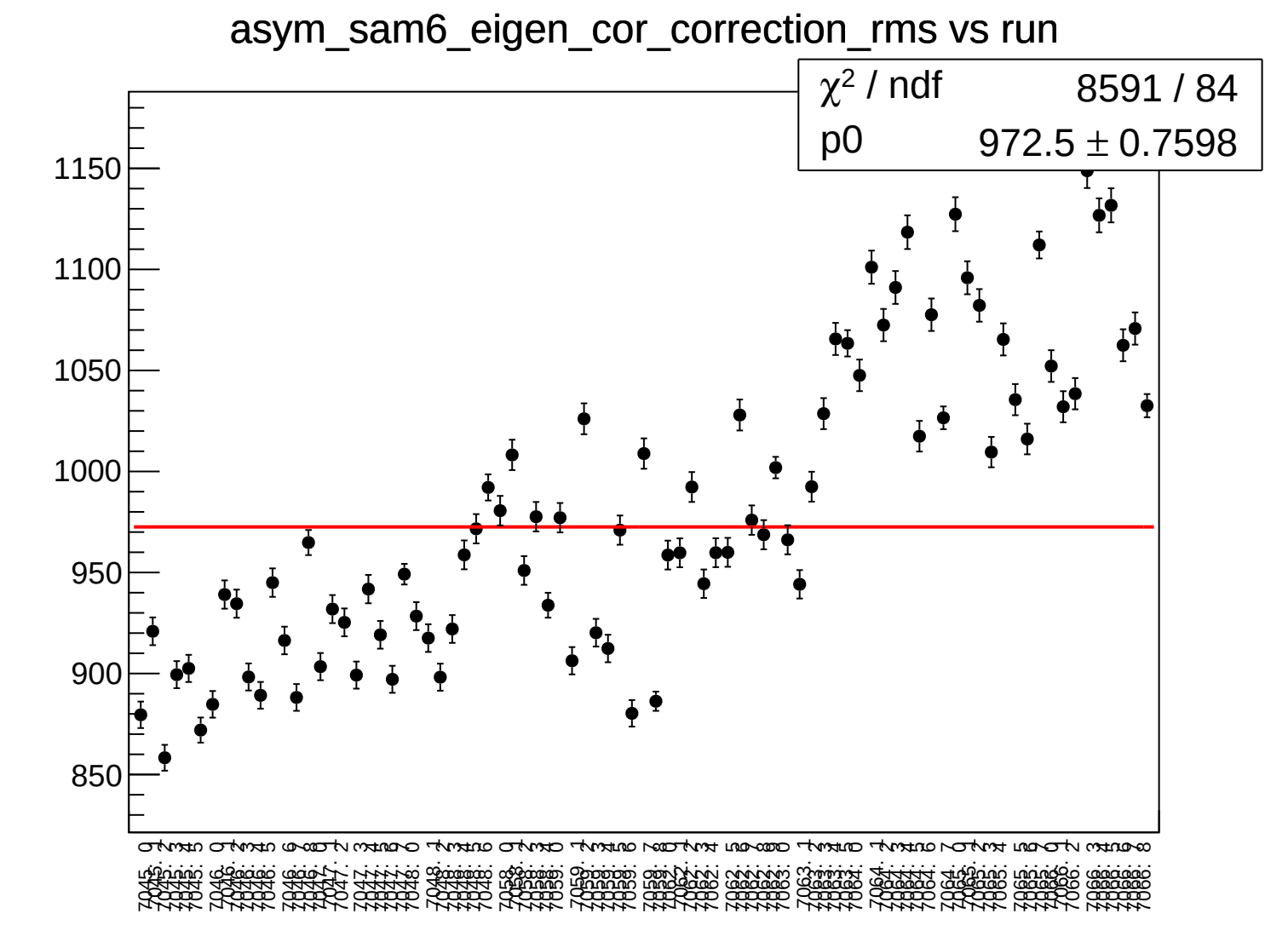

pull1D
Entries 85
Mean −0.007028
Std Dev 0.8933

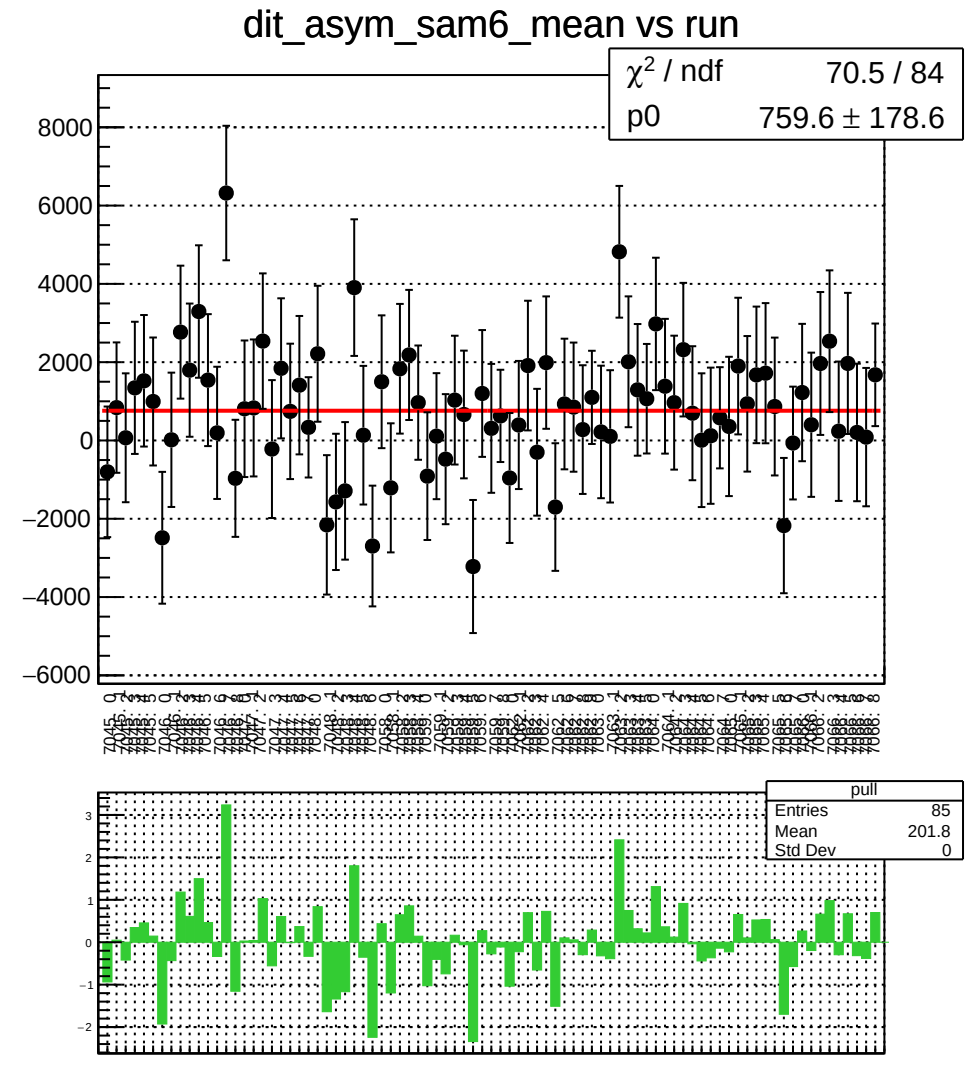

asym_sam6_cor_correction_rms vs run
χ² / ndf 8591 / 84
p0 972.5 ± 0.7598
1150
1100
1050
1000
950
900
850

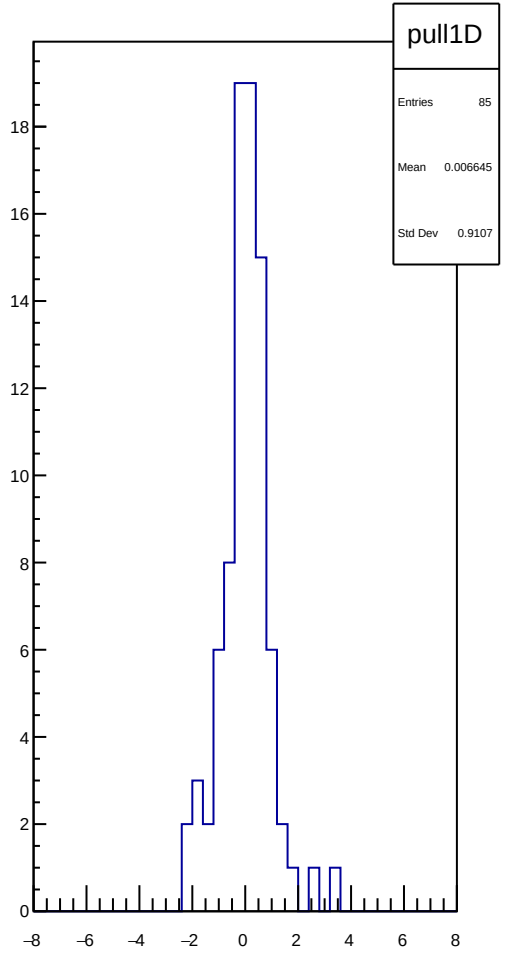

eigen_cor_asym_sam6_mean vs run
χ² / ndf 72.22 / 84
p0 683.6 ± 171.6
pull
Entries 85
Mean 94.17
Std Dev 91.37
pull1D
Entries 85
Mean 0.004922
Std Dev 0.9218

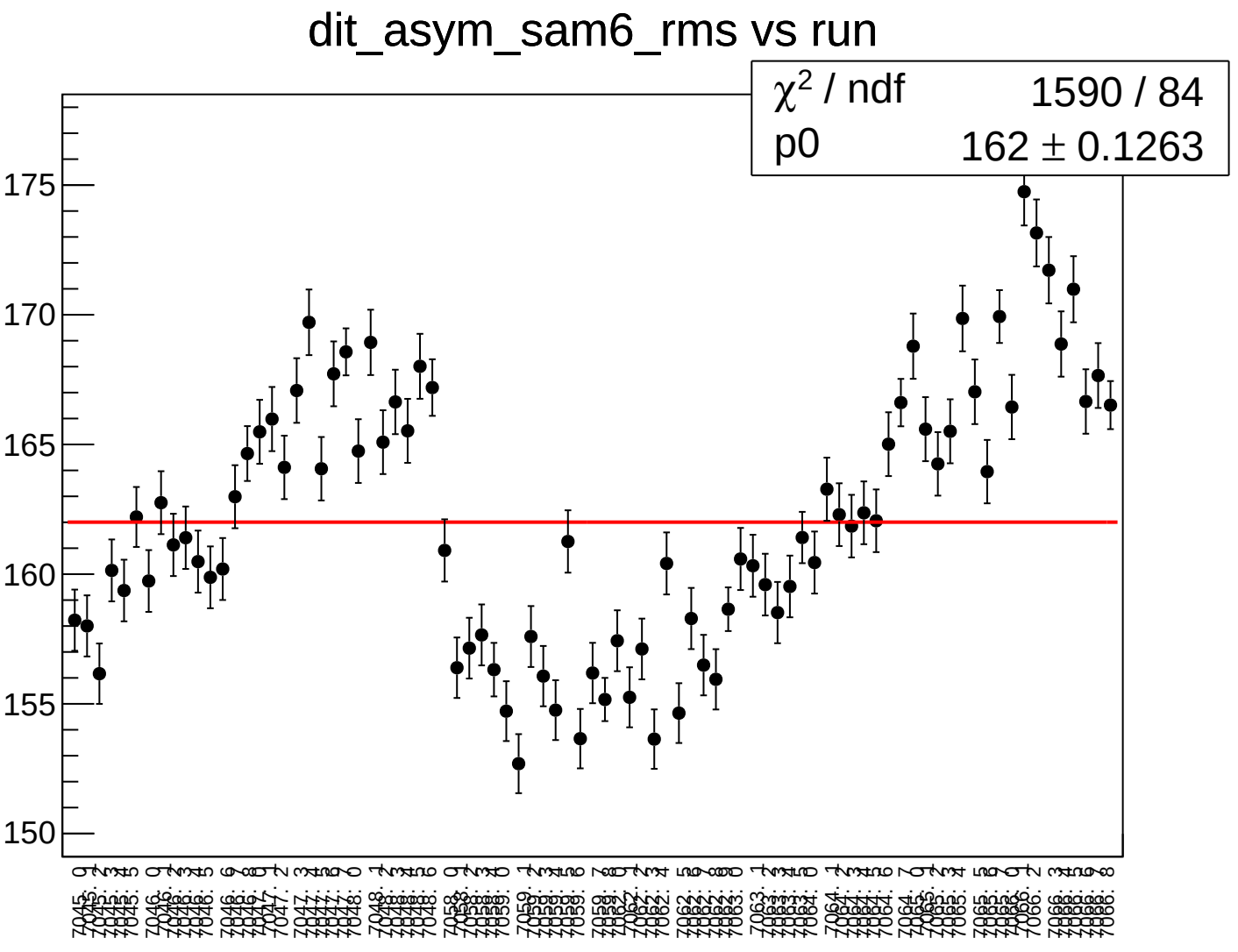

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1921 / 84
p0 155.6 ± 0.1213
165
160
155
150
145

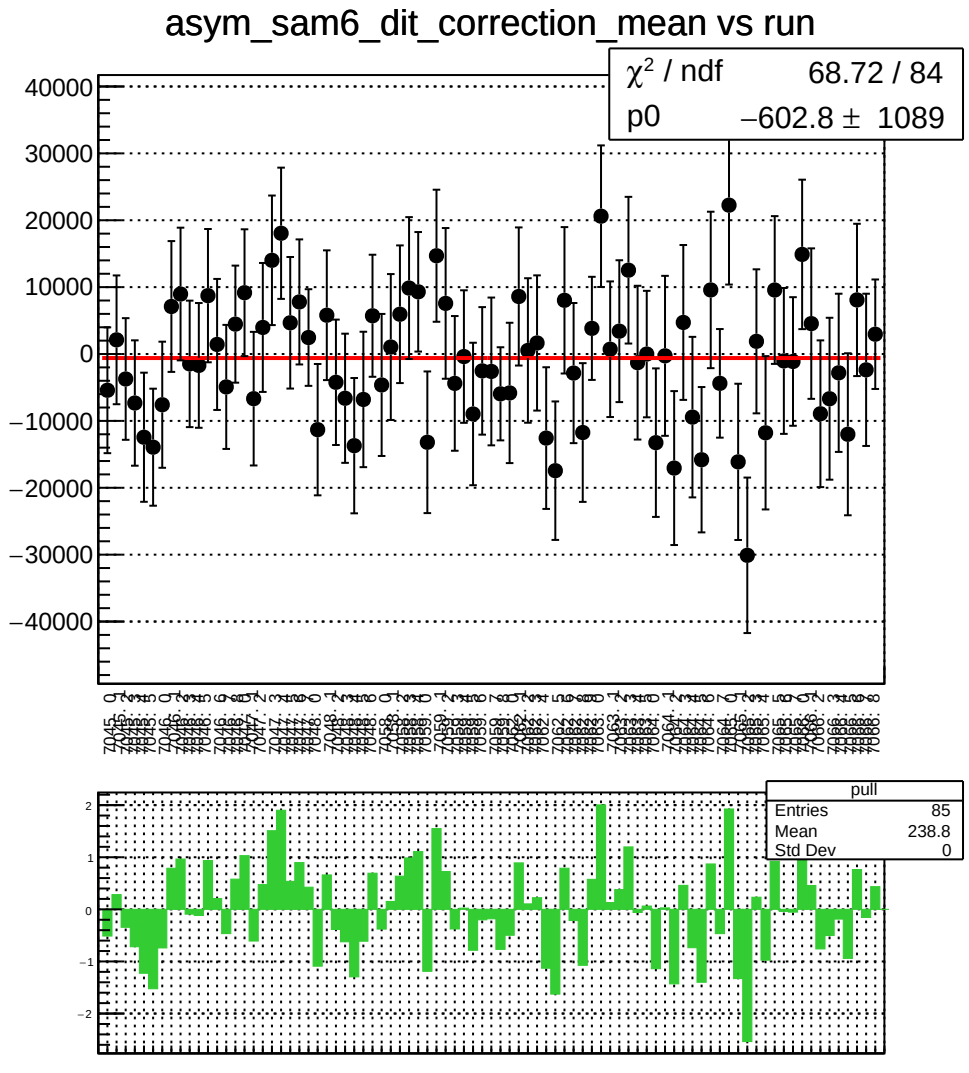

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 67.83 / 84
p0 −683.5 ± 1074
pull
Entries 85
Mean 255
Std Dev 0
pull1D
Entries 85
Mean −0.007028
Std Dev 0.8933

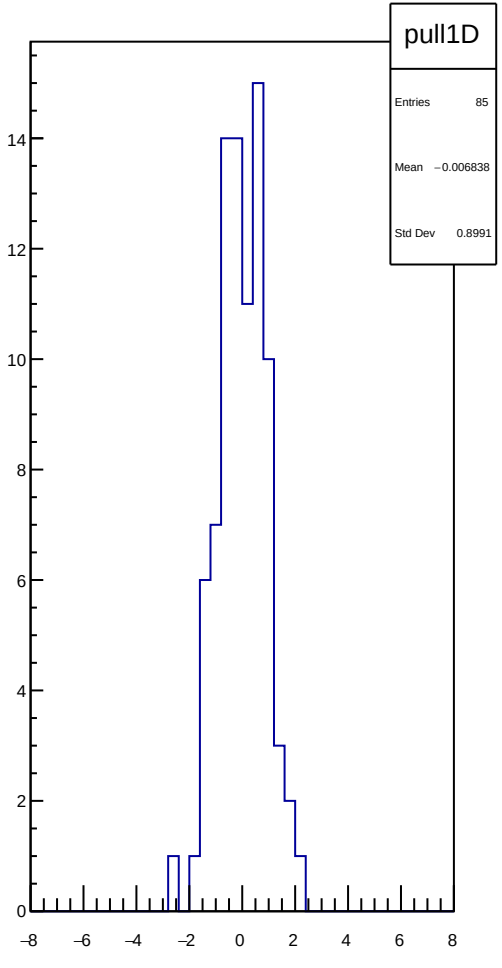

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 8591 / 84
p0 972.5 ± 0.7598
1150
1100
1050
1000
950
900
850

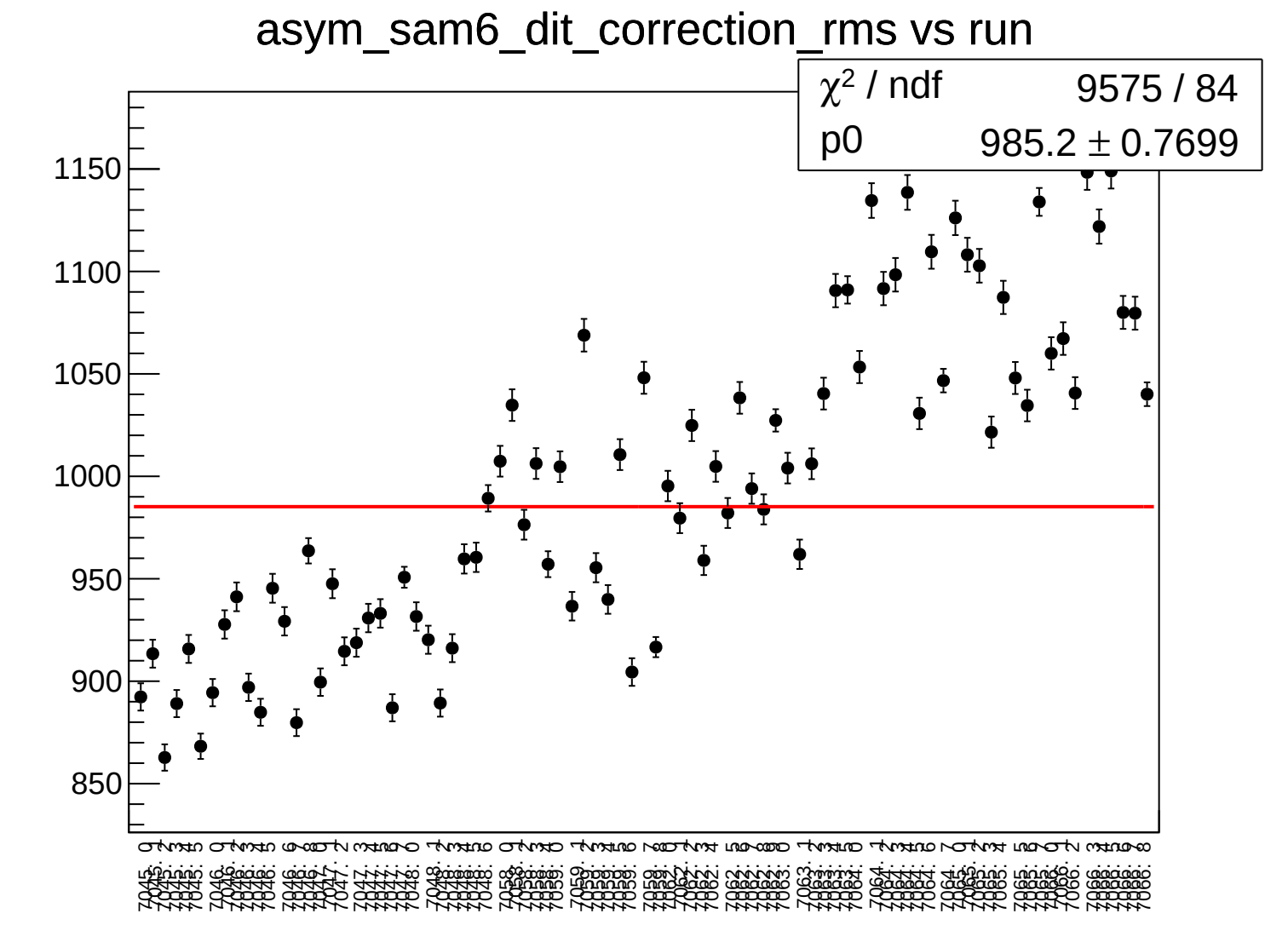

dit_asym_sam6_mean vs run
χ^2 / ndf 70.5 / 84
p0 759.6 ± 178.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 201.8
Std Dev 0
3
2
1
0
−1
−2

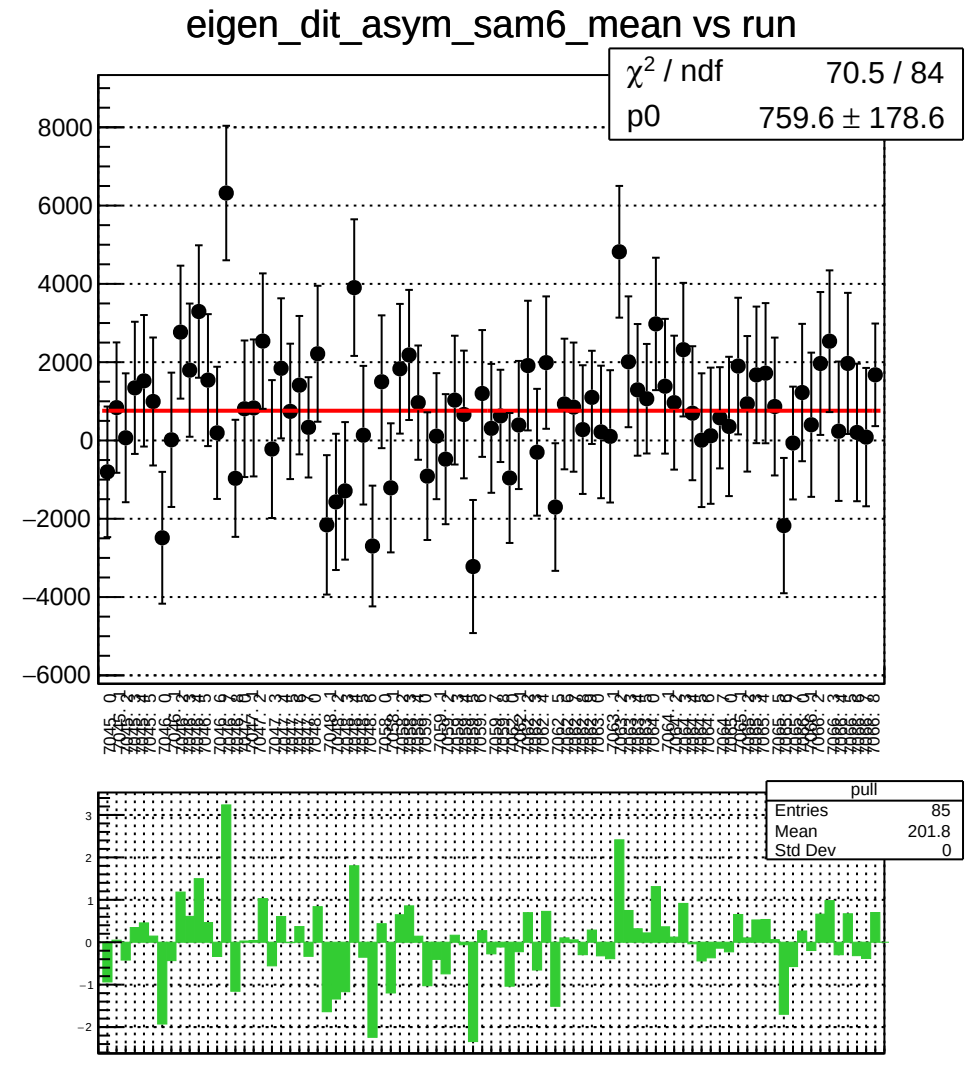

pull1D
Entries 85
Mean 0.006645
Std Dev 0.9107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

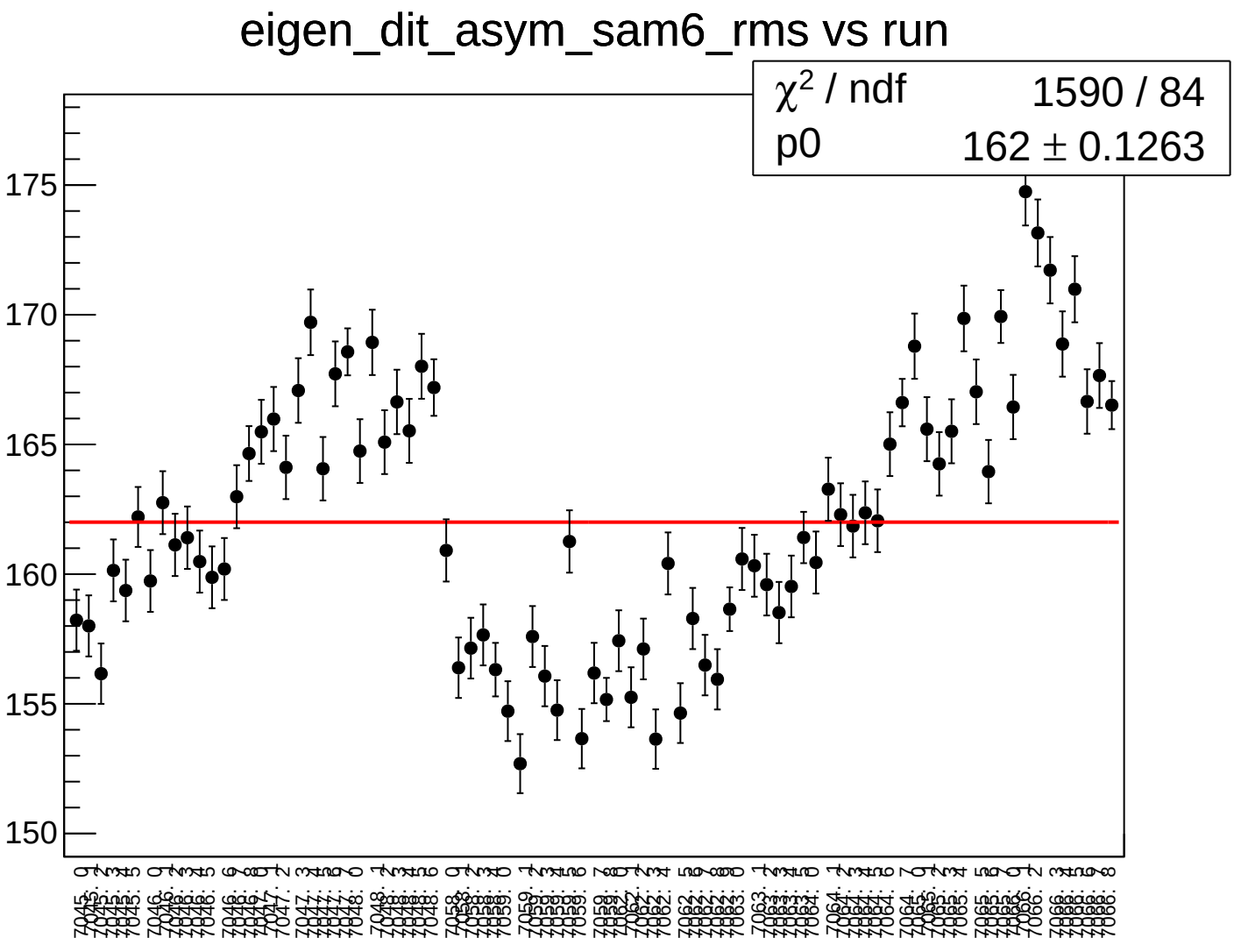

dit_asym_sam6_rms vs run
χ^2 / ndf 1590 / 84
p0 162 ± 0.1263
175
170
165
160
155
150

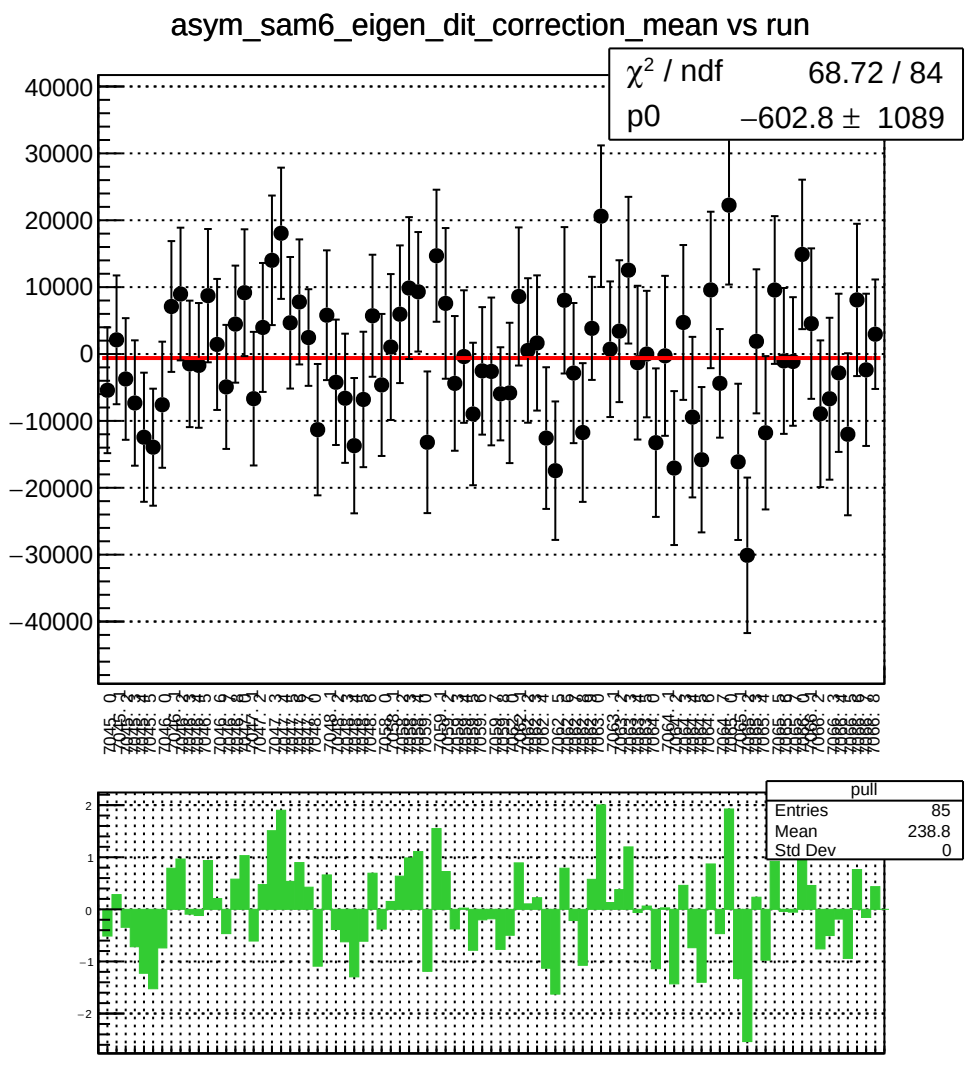

asym_sam6_dit_correction_mean vs run
χ² / ndf 68.72 / 84
p0 −602.8 ± 1089
pull
Entries 85
Mean 238.8
Std Dev 0

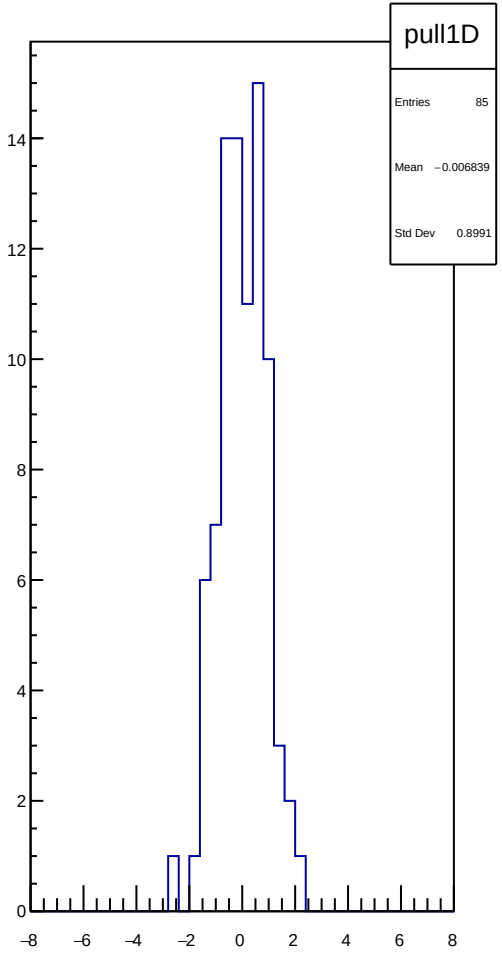

pull1D
Entries 85
Mean −0.006838
Std Dev 0.8991

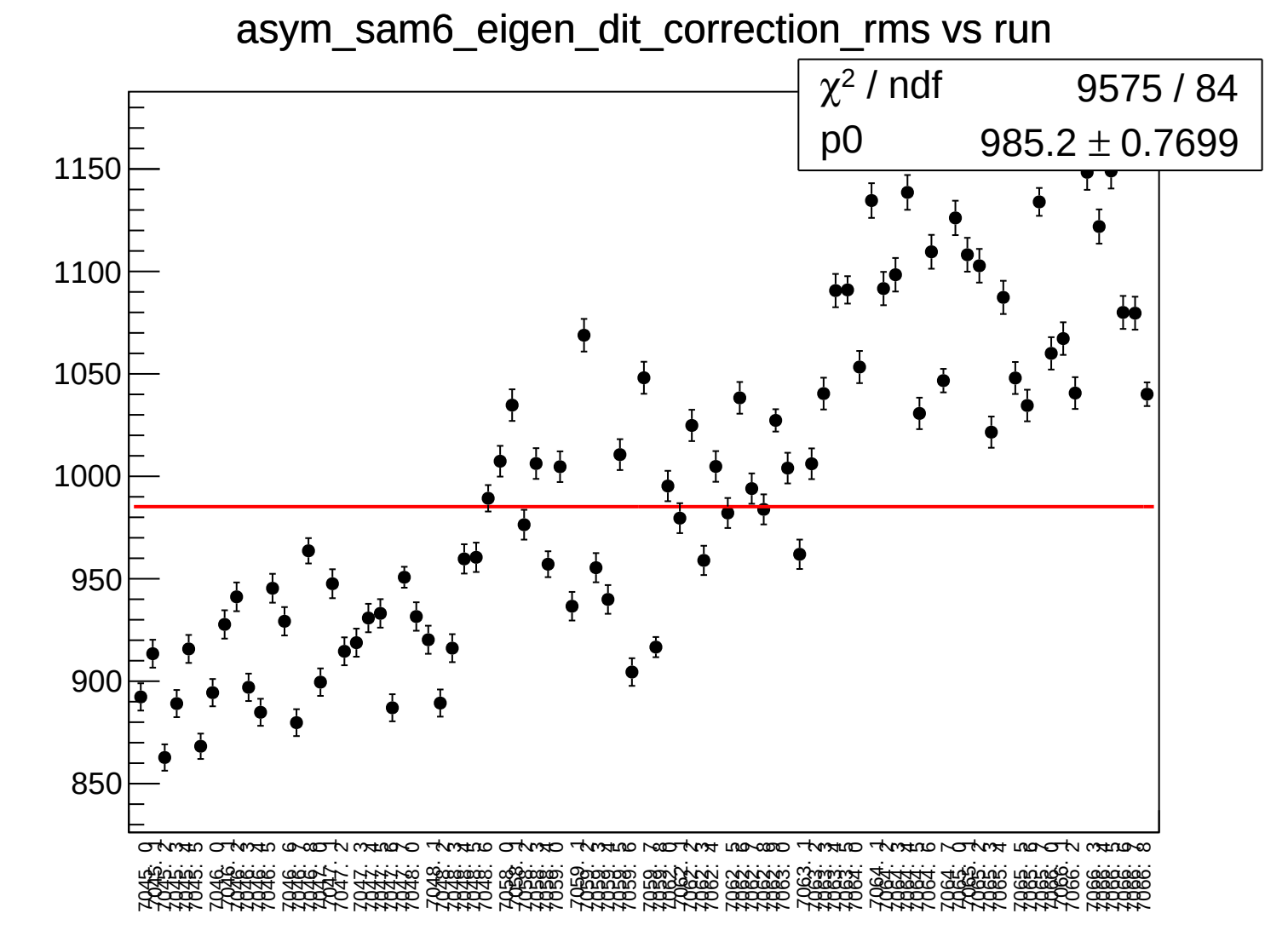

asym_sam6_dit_correction_rms vs run
χ² / ndf 9575 / 84
p0 985.2 ± 0.7699
1150
1100
1050
1000
950
900
850

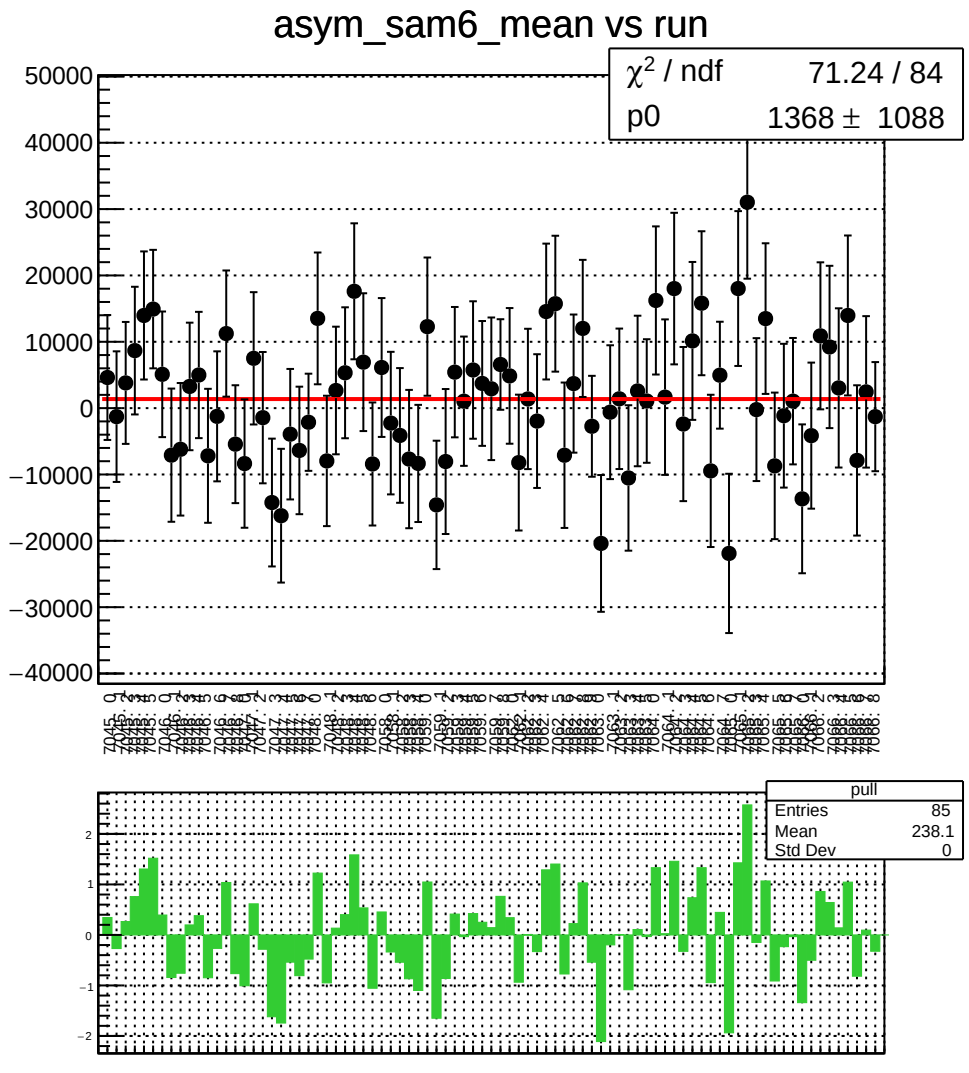

eigen_dit_asym_sam6_mean vs run
χ² / ndf 70.5 / 84
p0 759.6 ± 178.6
pull
Entries 85
Mean 201.8
Std Dev 0
pull1D
Entries 85
Mean 0.006645
Std Dev 0.9107

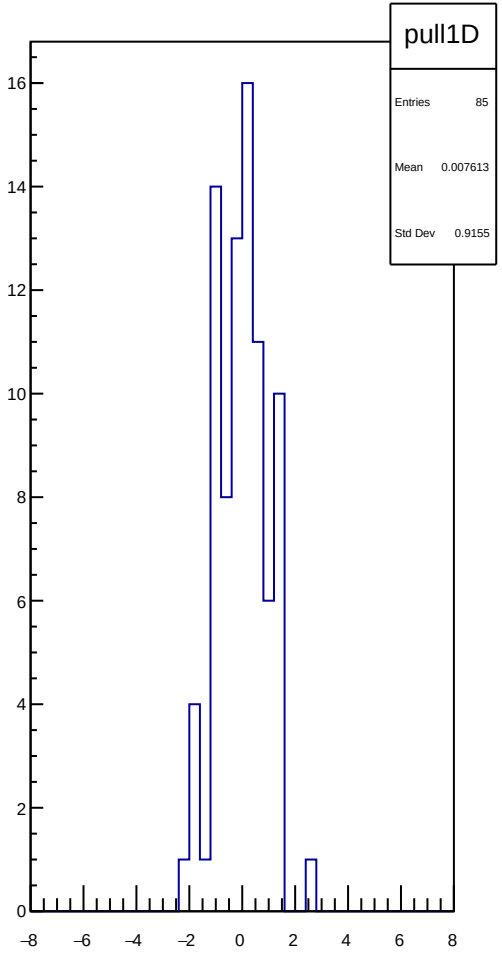

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 1590 / 84
p0 162 ± 0.1263
175
170
165
160
155
150

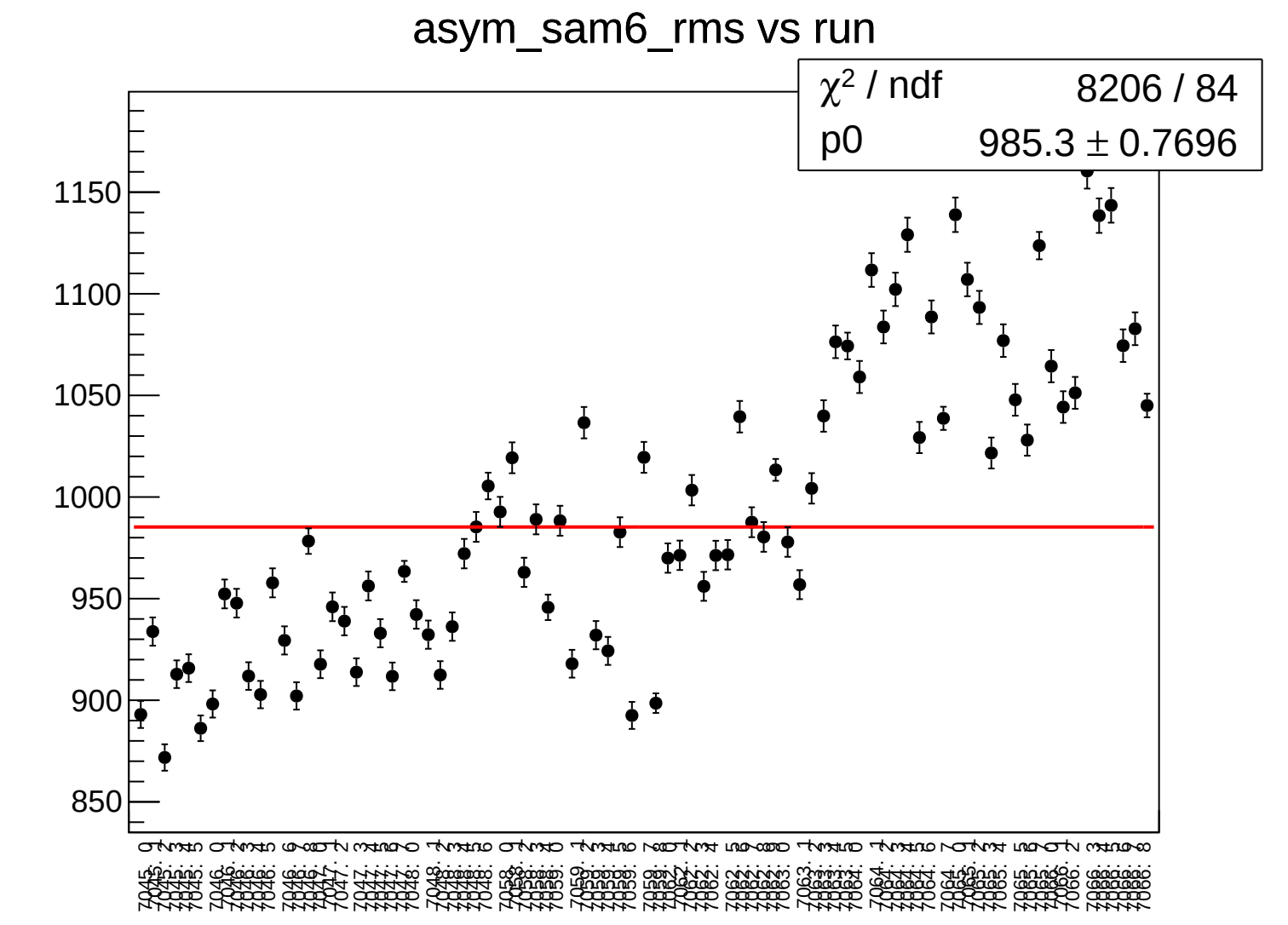

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 68.72 / 84
p0 −602.8 ± 1089
pull
Entries 85
Mean 238.8
Std Dev 0

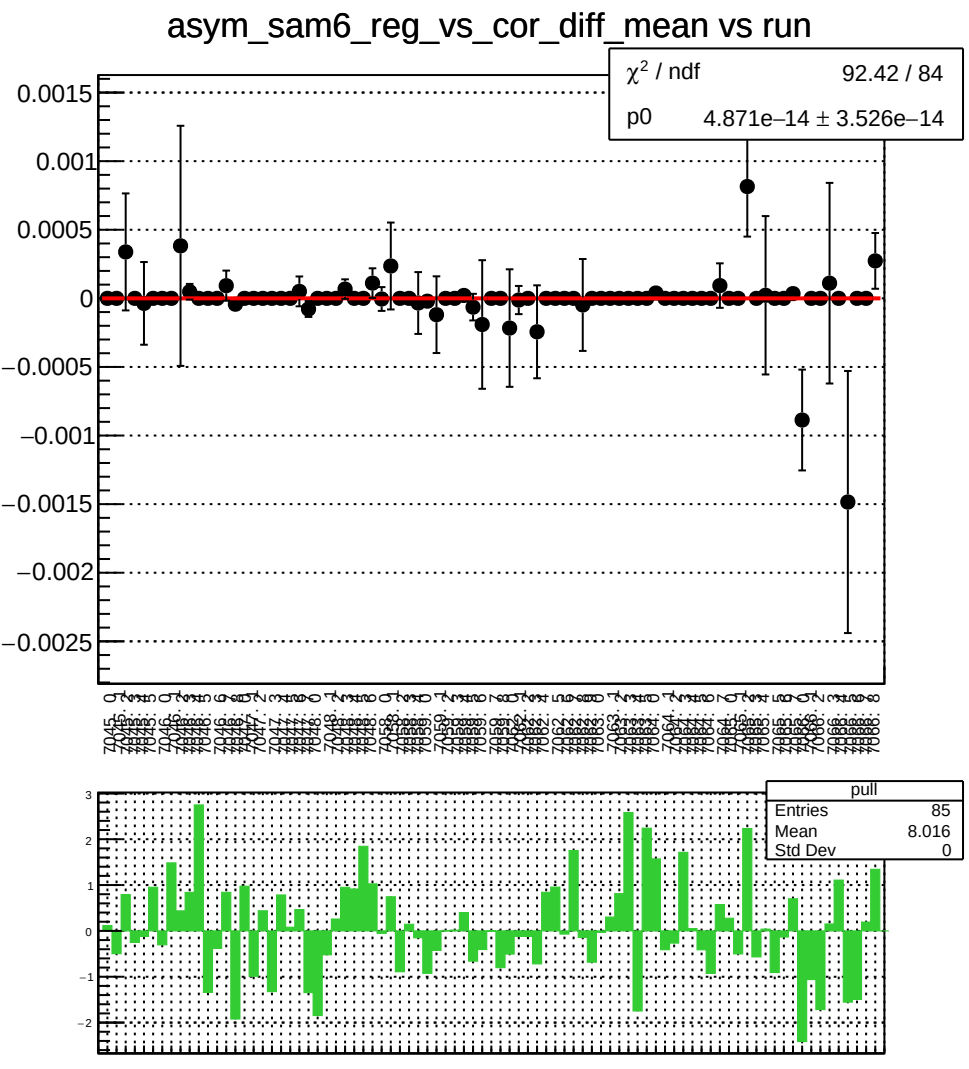

pull1D
Entries 85
Mean −0.006839
Std Dev 0.8991

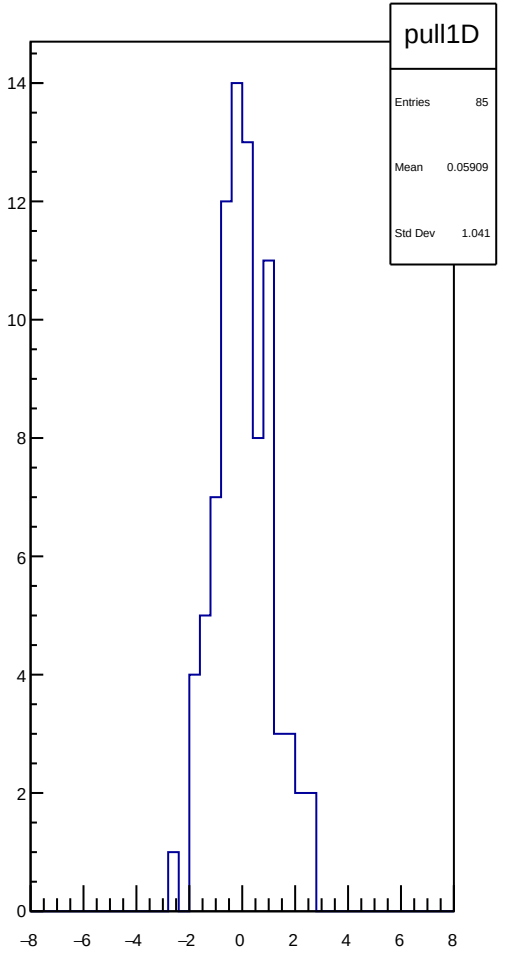

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 9575 / 84
p0 985.2 ± 0.7699
1150
1100
1050
1000
950
900
850

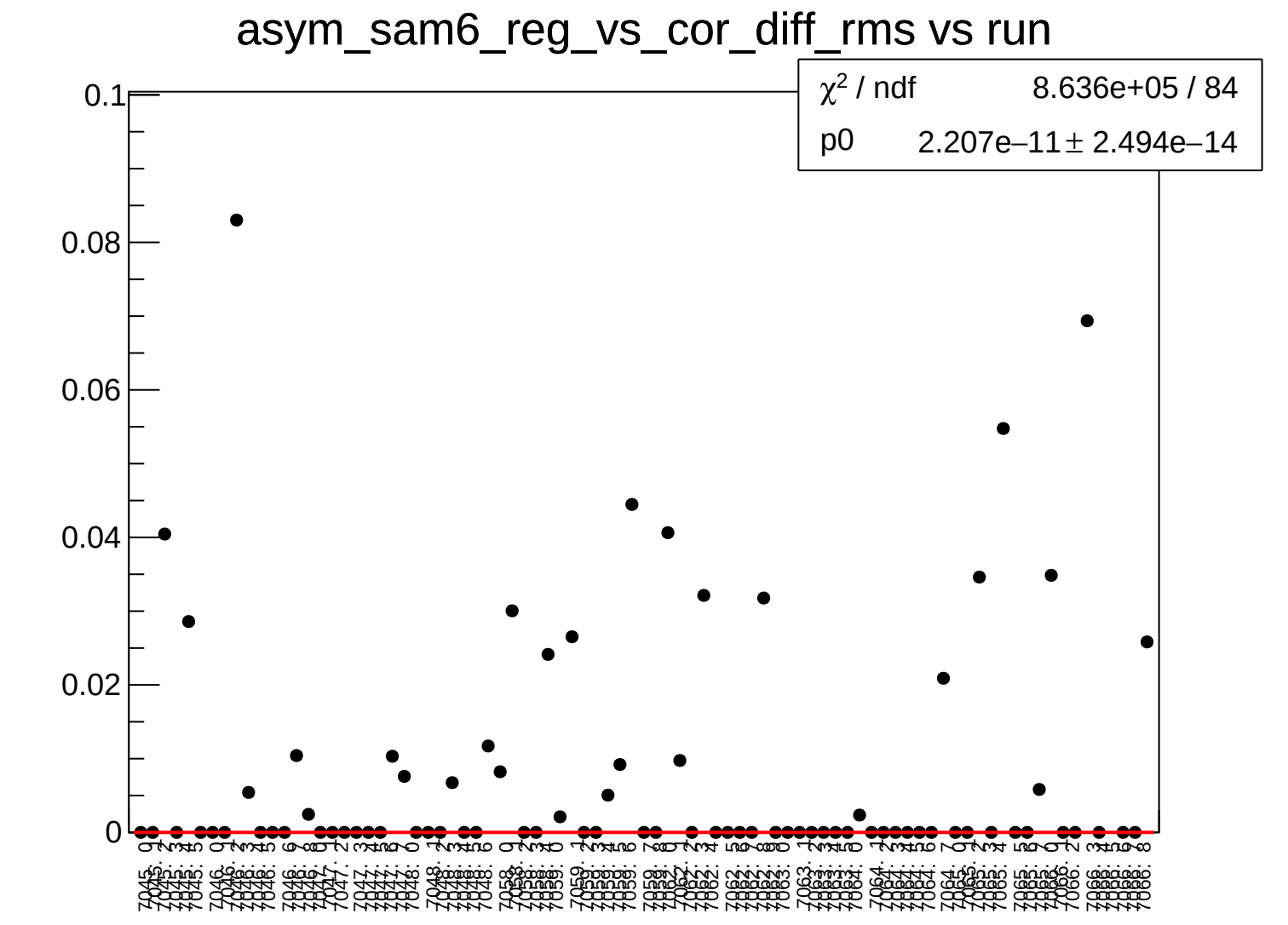

asym_sam6_mean vs run
χ² / ndf 71.24 / 84
p0 1368 ± 1088
pull
Entries 85
Mean 238.1
Std Dev 0

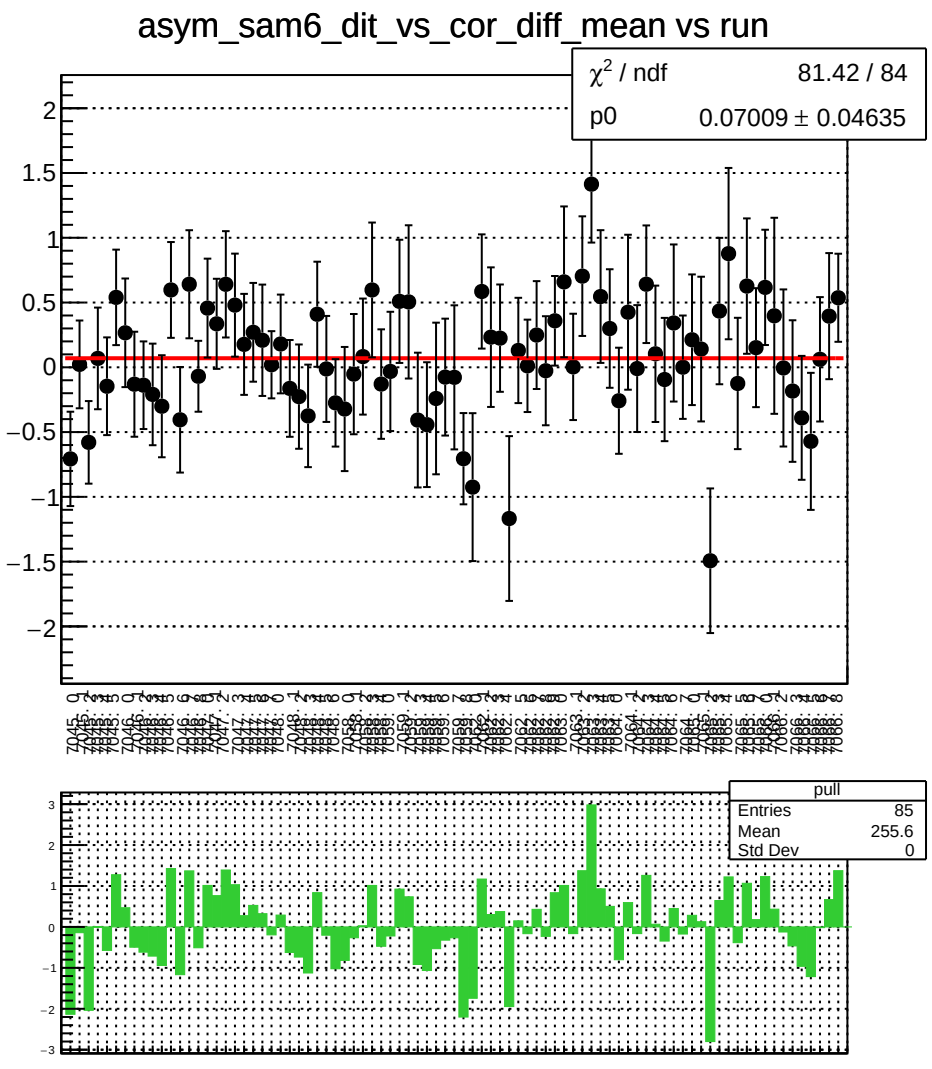

pull1D
Entries 85
Mean 0.007613
Std Dev 0.9155

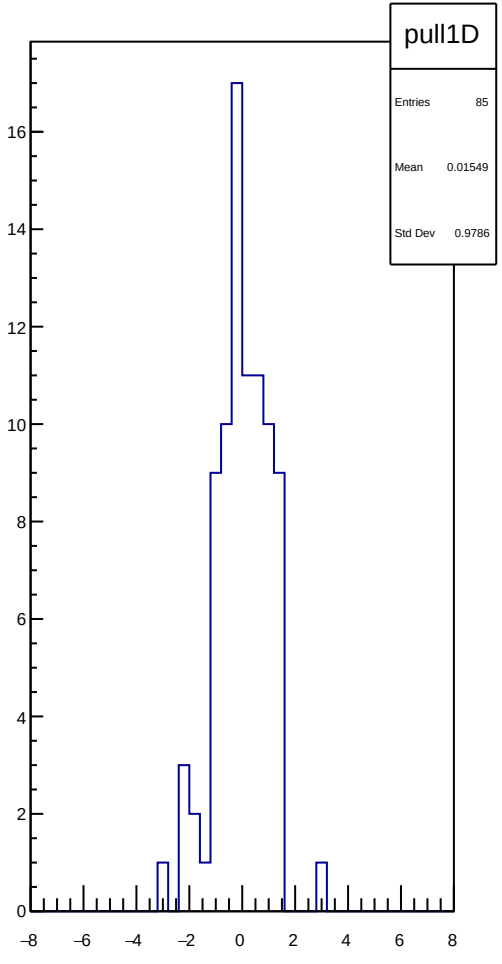

asym_sam6_rms vs run
χ² / ndf 8206 / 84
p0 985.3 ± 0.7696
1150
1100
1050
1000
950
900
850

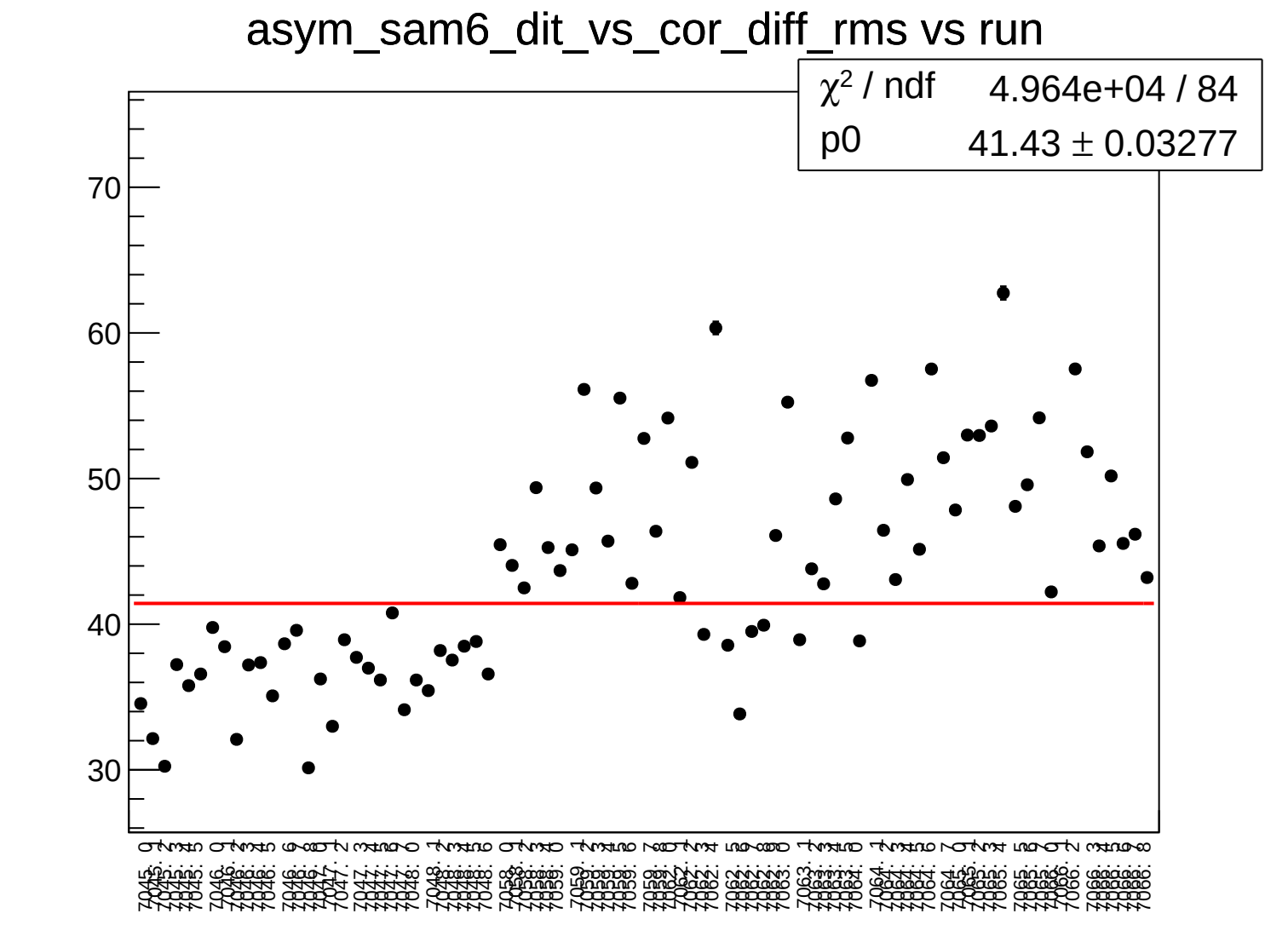

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 92.42 / 84
p0 4.871e−14 ± 3.526e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 85
Mean 8.016
Std Dev 0
3
2
1
0
−1
−2

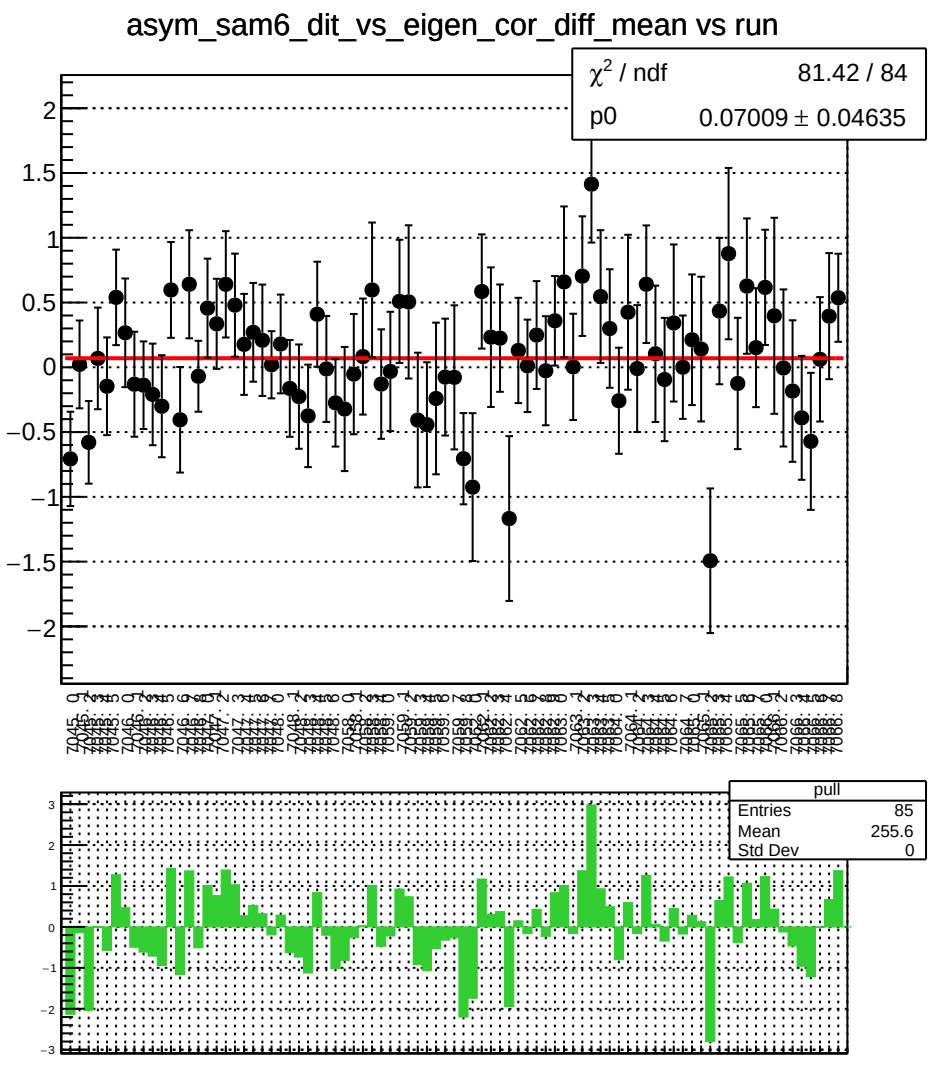

pull1D
Entries 85
Mean 0.05909
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

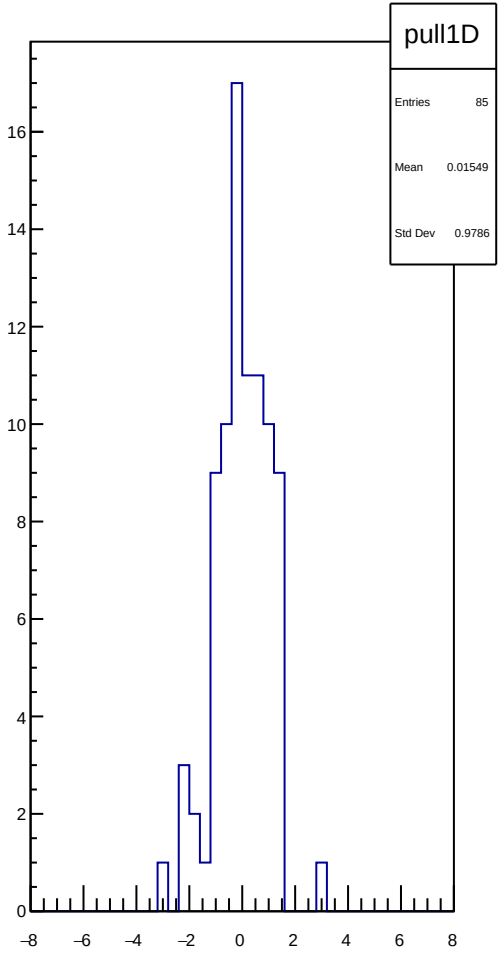

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.636e+05 / 84
p0 2.207e−11 ± 2.494e−14
0.1
0.08
0.06
0.04
0.02
0

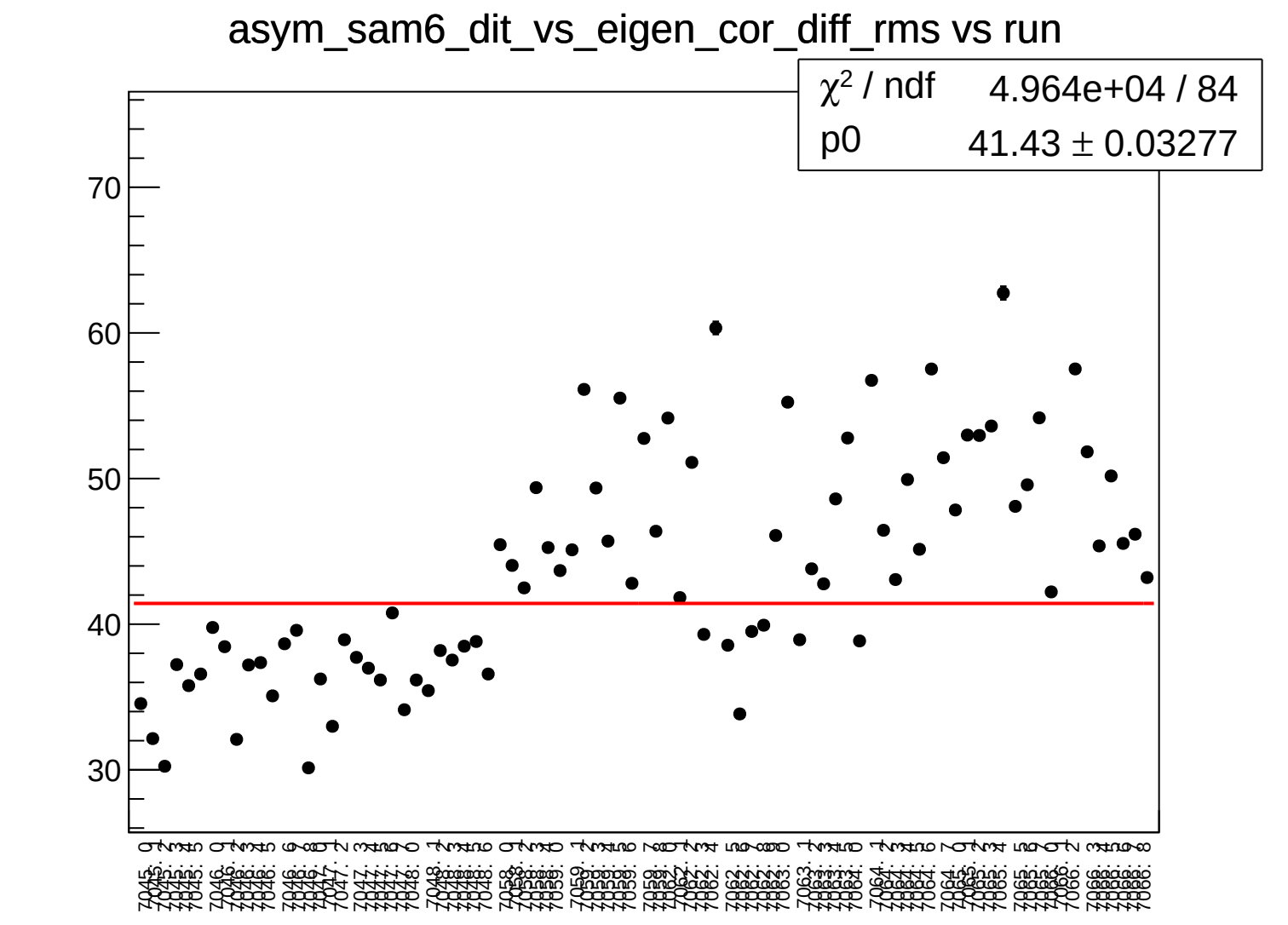

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 81.42 / 84
p0 0.07009 ± 0.04635
pull
Entries 85
Mean 255.6
Std Dev 0

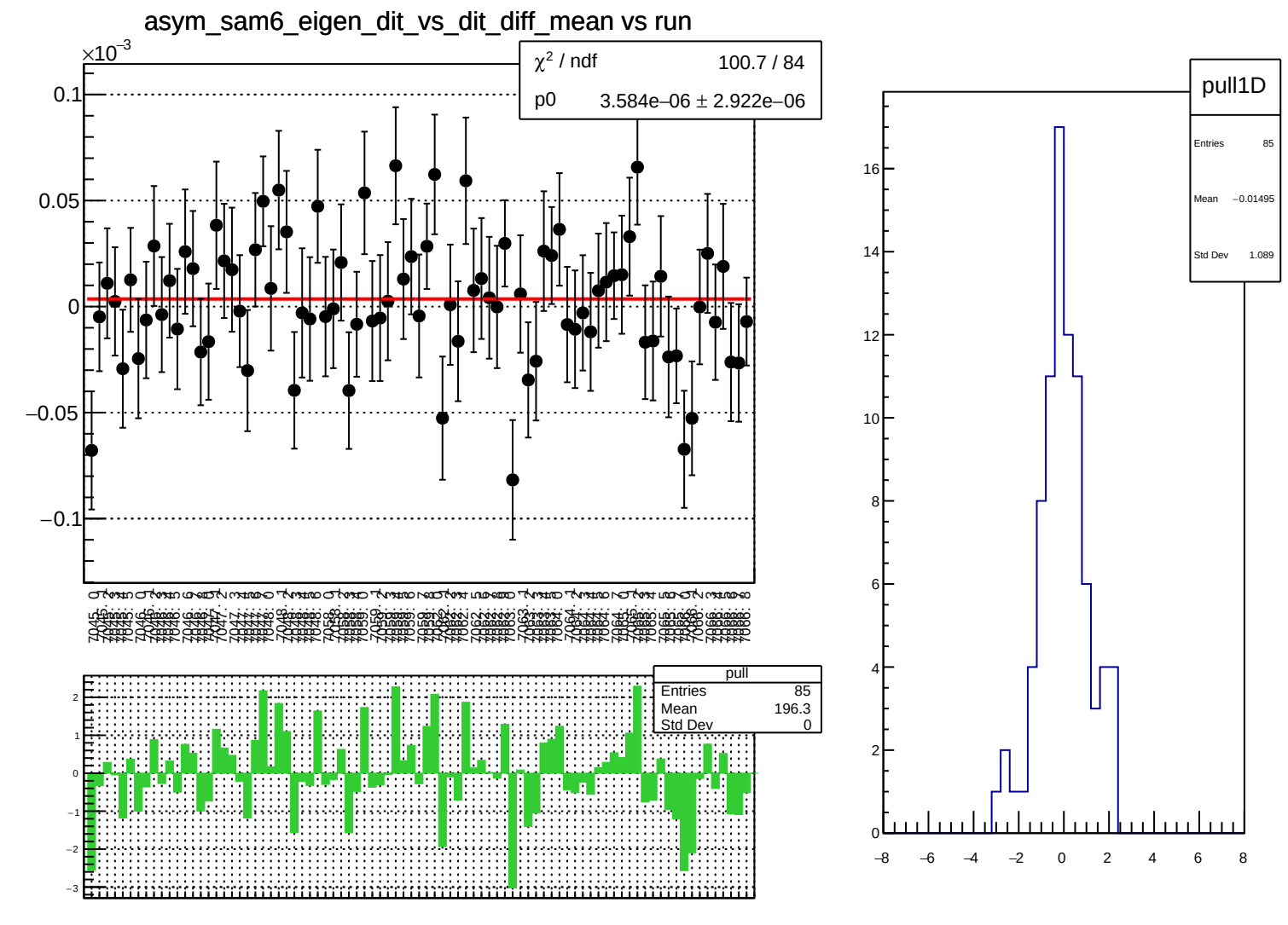

pull1D
Entries 85
Mean 0.01549
Std Dev 0.9786

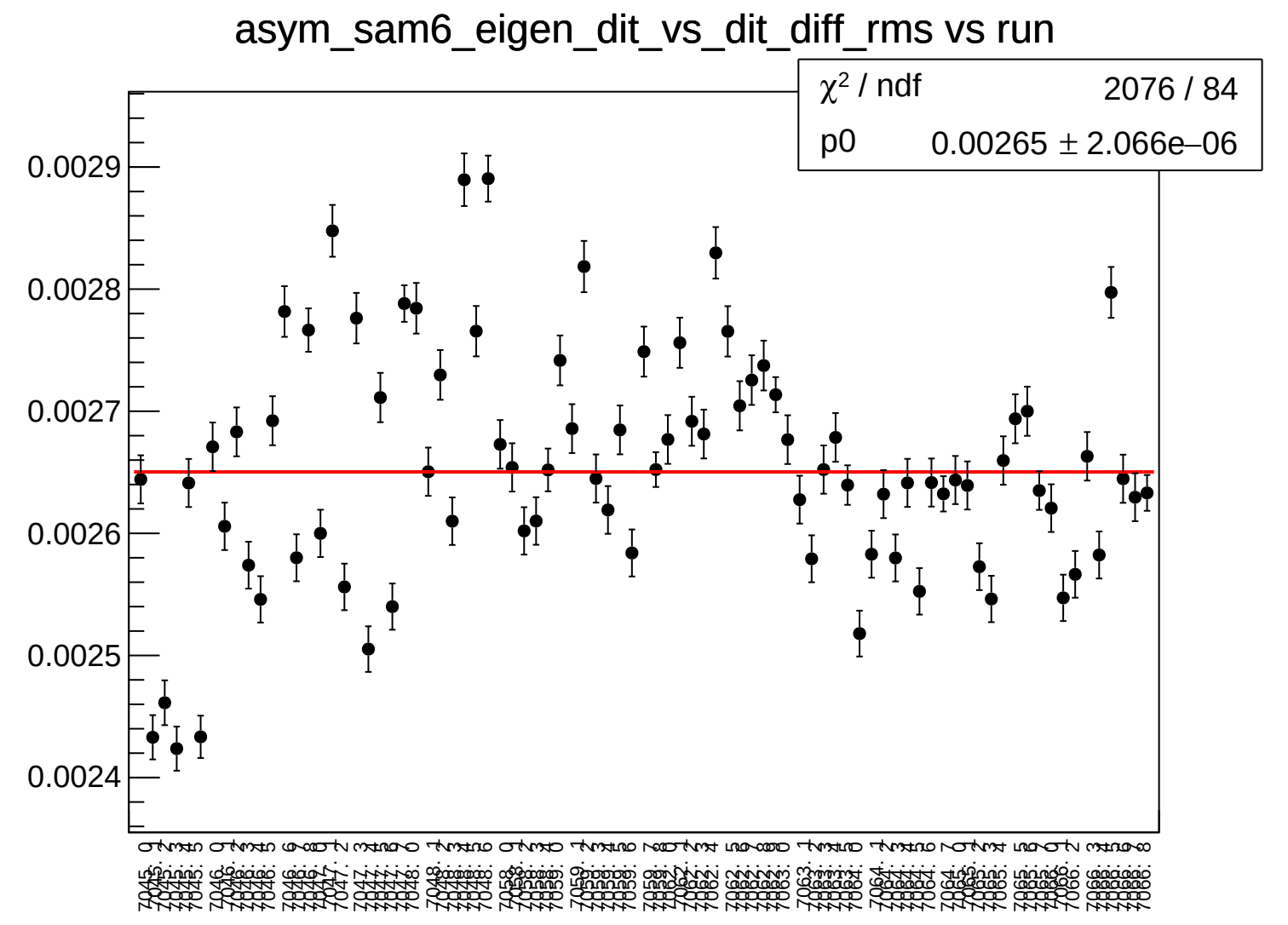

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.964e+04 / 84
p0 41.43 ± 0.03277
70
60
50
40
30

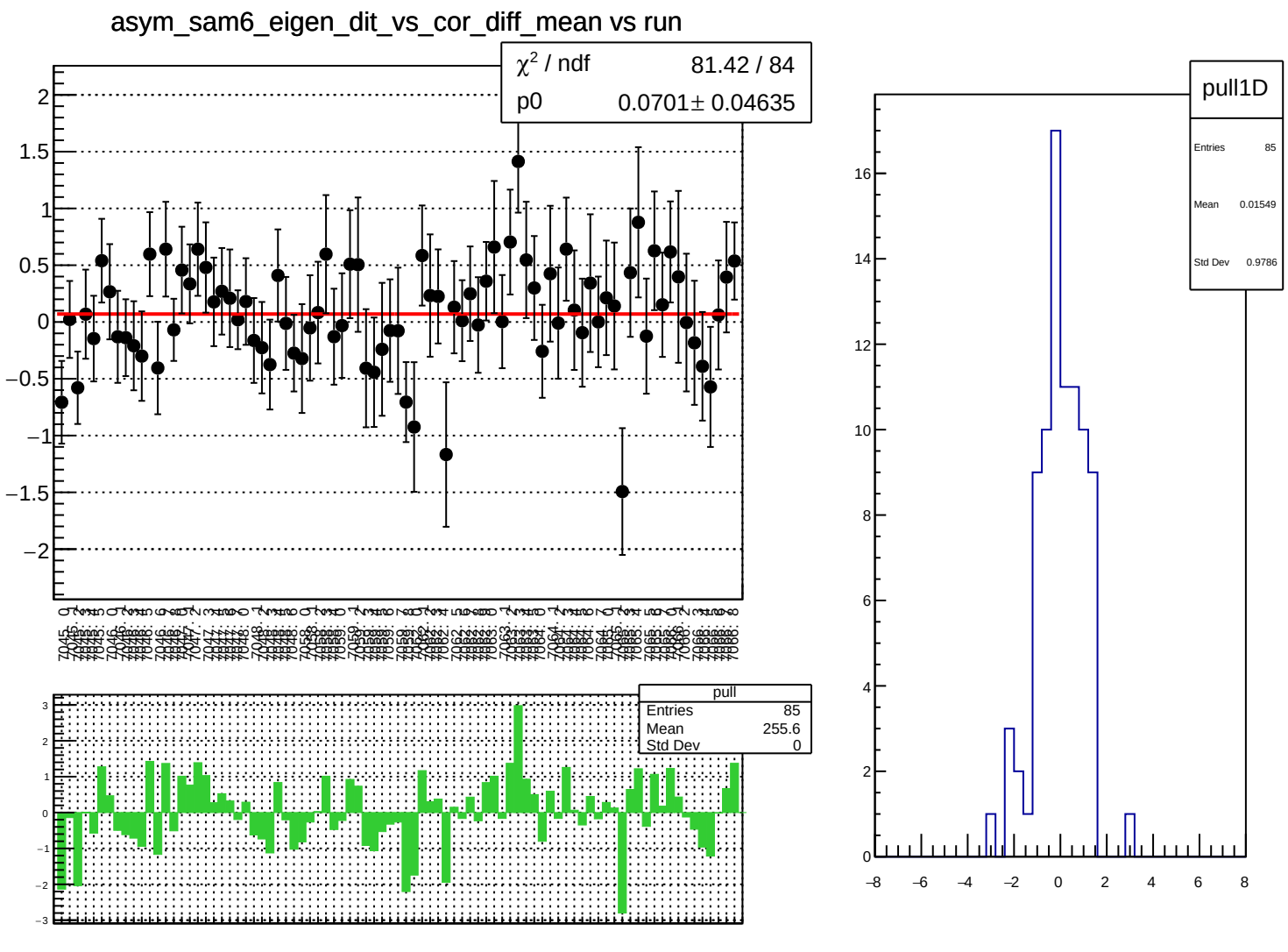

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.42 / 84
p0 0.07009 ± 0.04635
pull
Entries 85
Mean 255.6
Std Dev 0

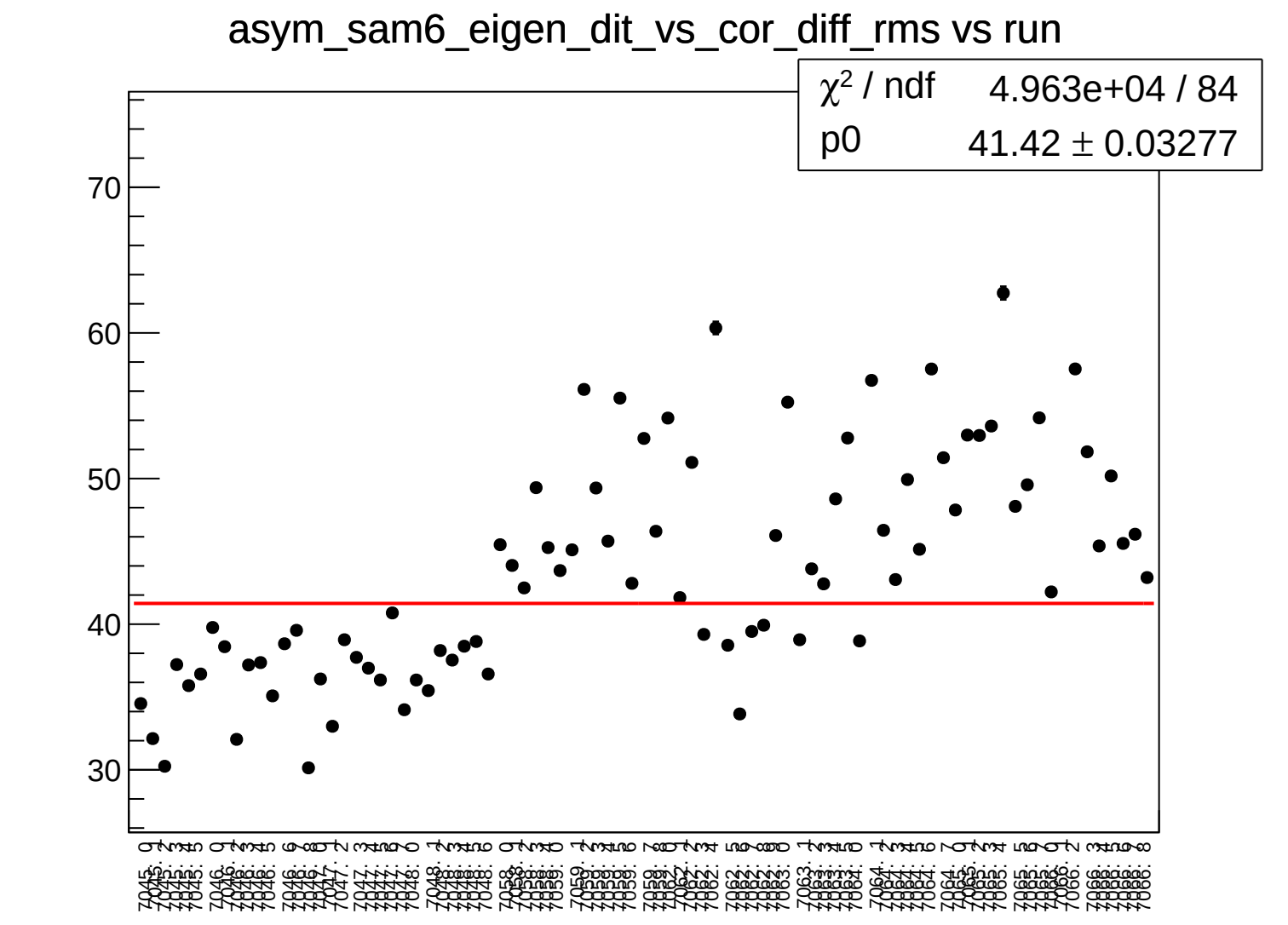

pull1D
Entries 85
Mean 0.01549
Std Dev 0.9786

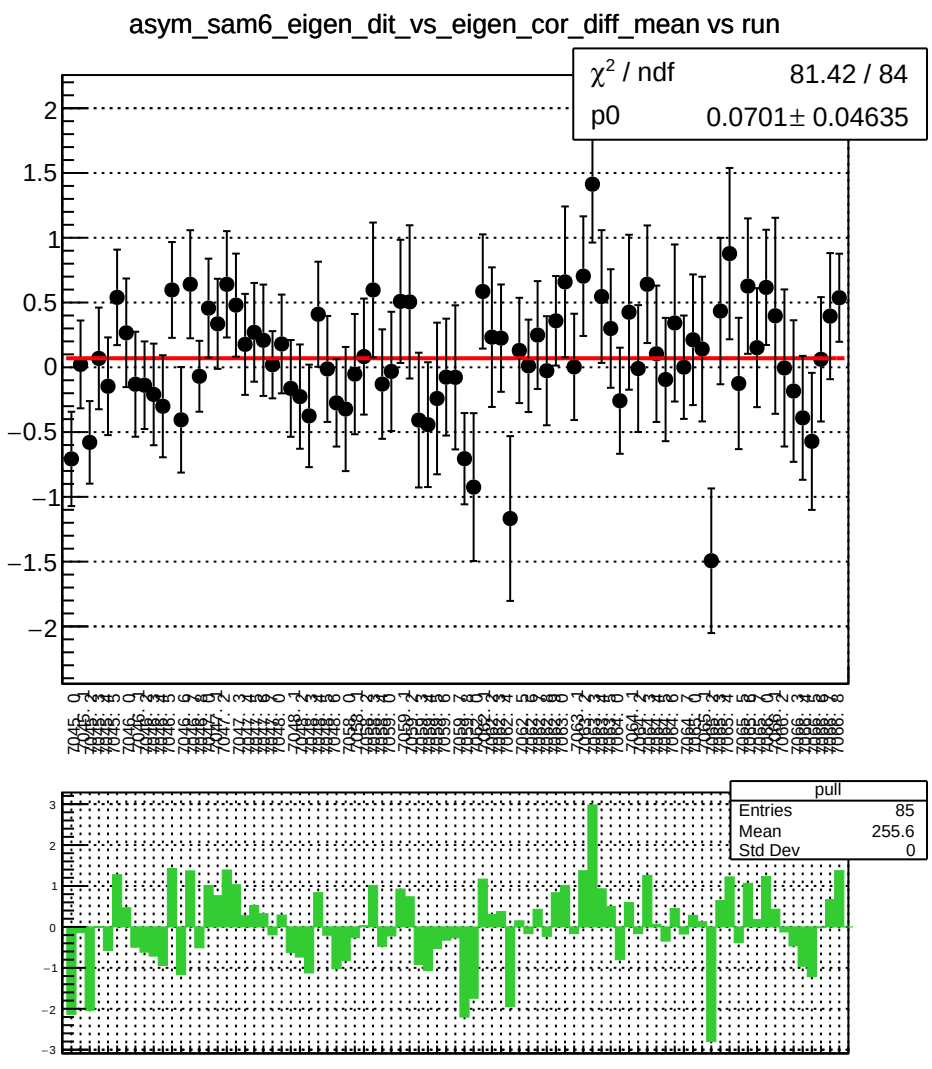

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.964e+04 / 84
p0 41.43 ± 0.03277
70
60
50
40
30

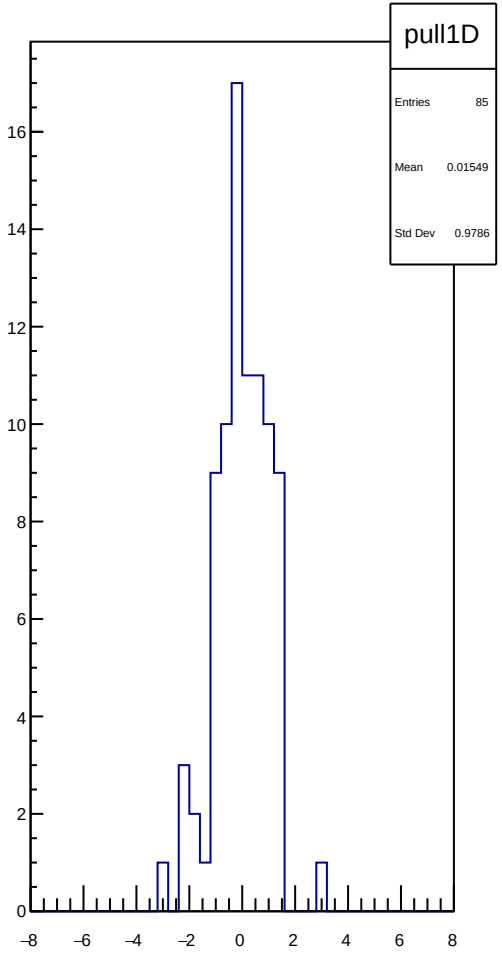

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 84
p0 3.584e−06 ± 2.922e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 196.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.01495
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

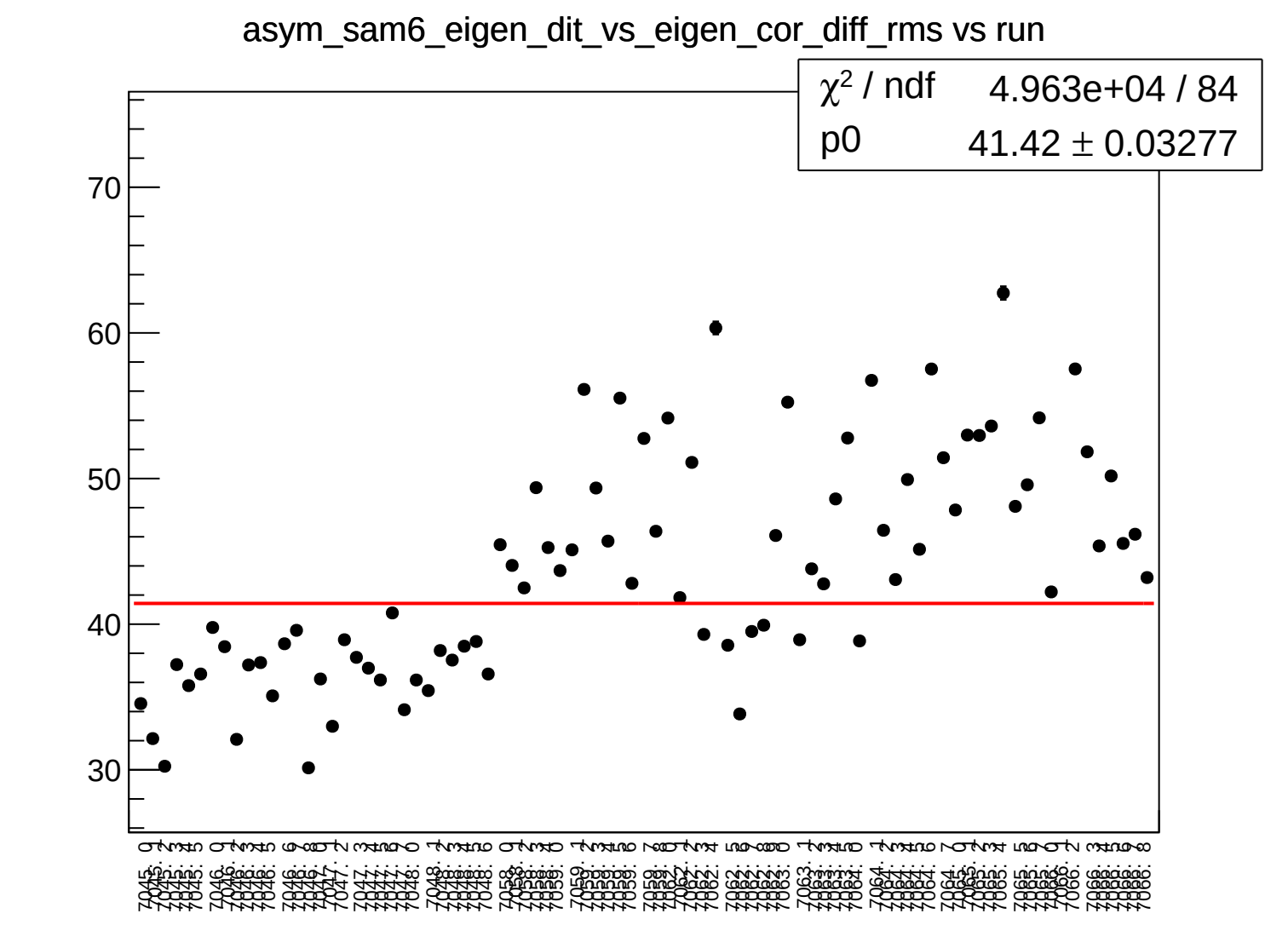

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2076 / 84
p0 0.00265 ± 2.066e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

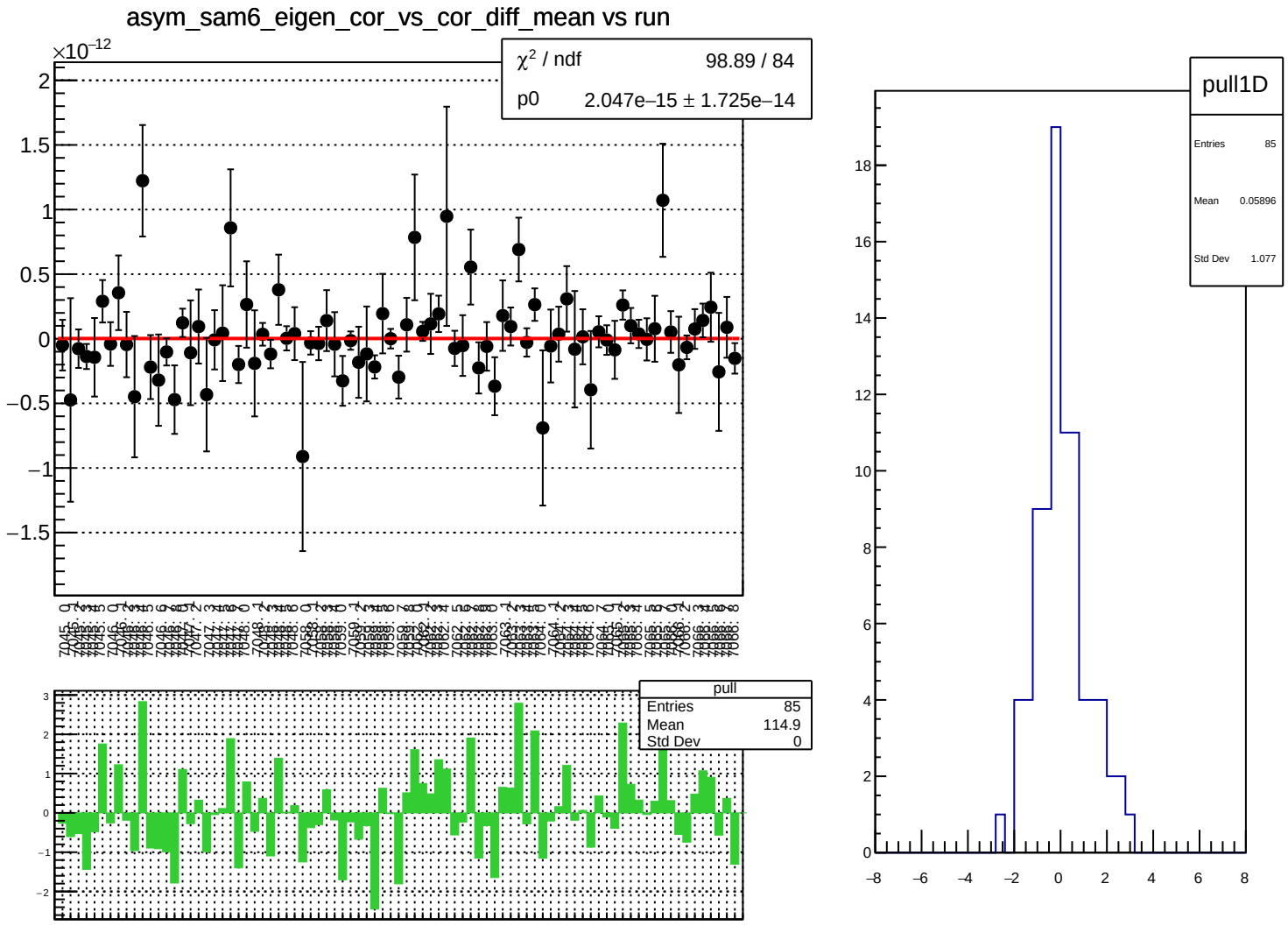

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.42 / 84
p0 0.0701± 0.04635
pull
Entries 85
Mean 255.6
Std Dev 0
pull1D
Entries 85
Mean 0.01549
Std Dev 0.9786

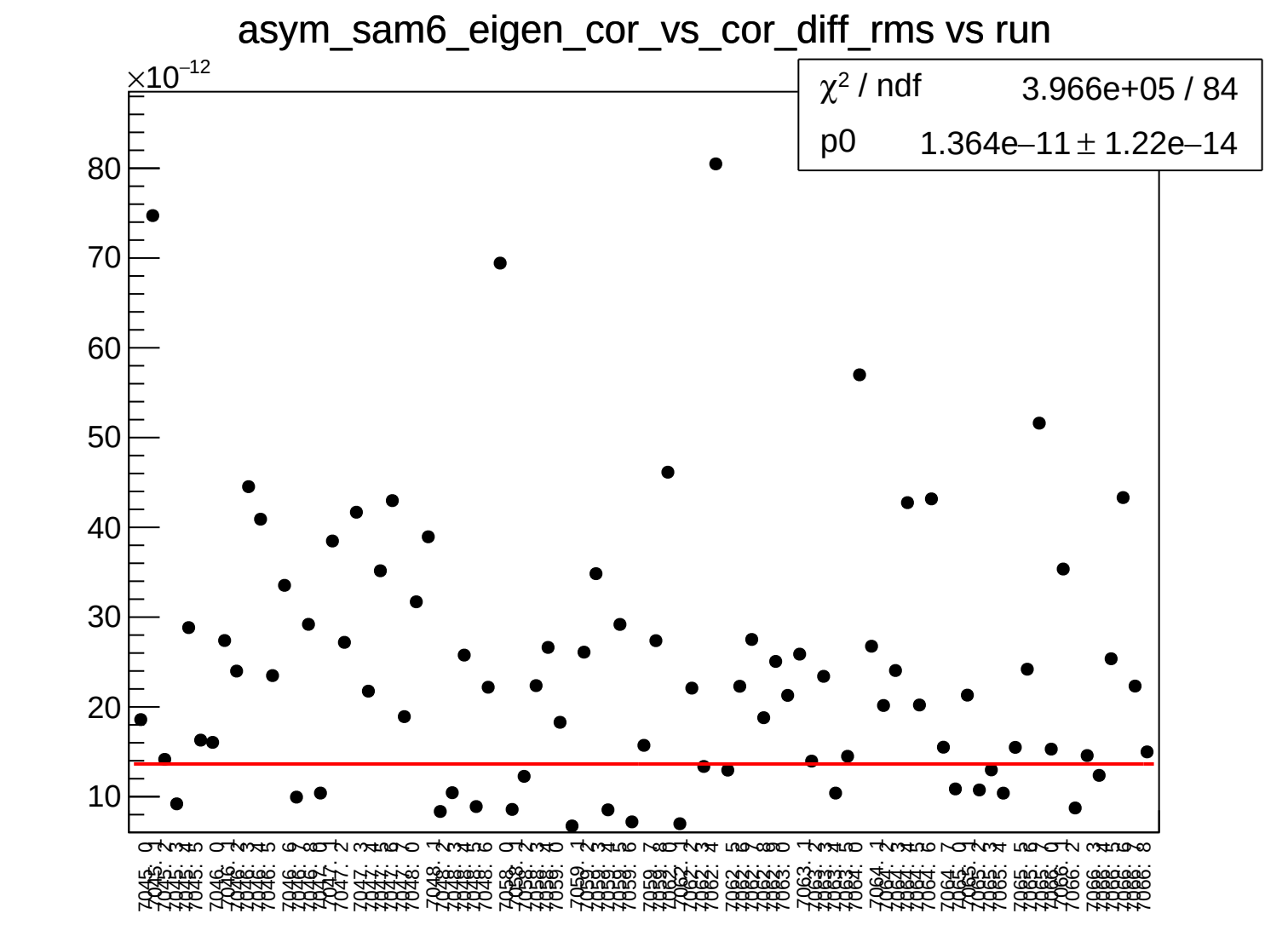

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.963e+04 / 84
p0 41.42 ± 0.03277
70
60
50
40
30

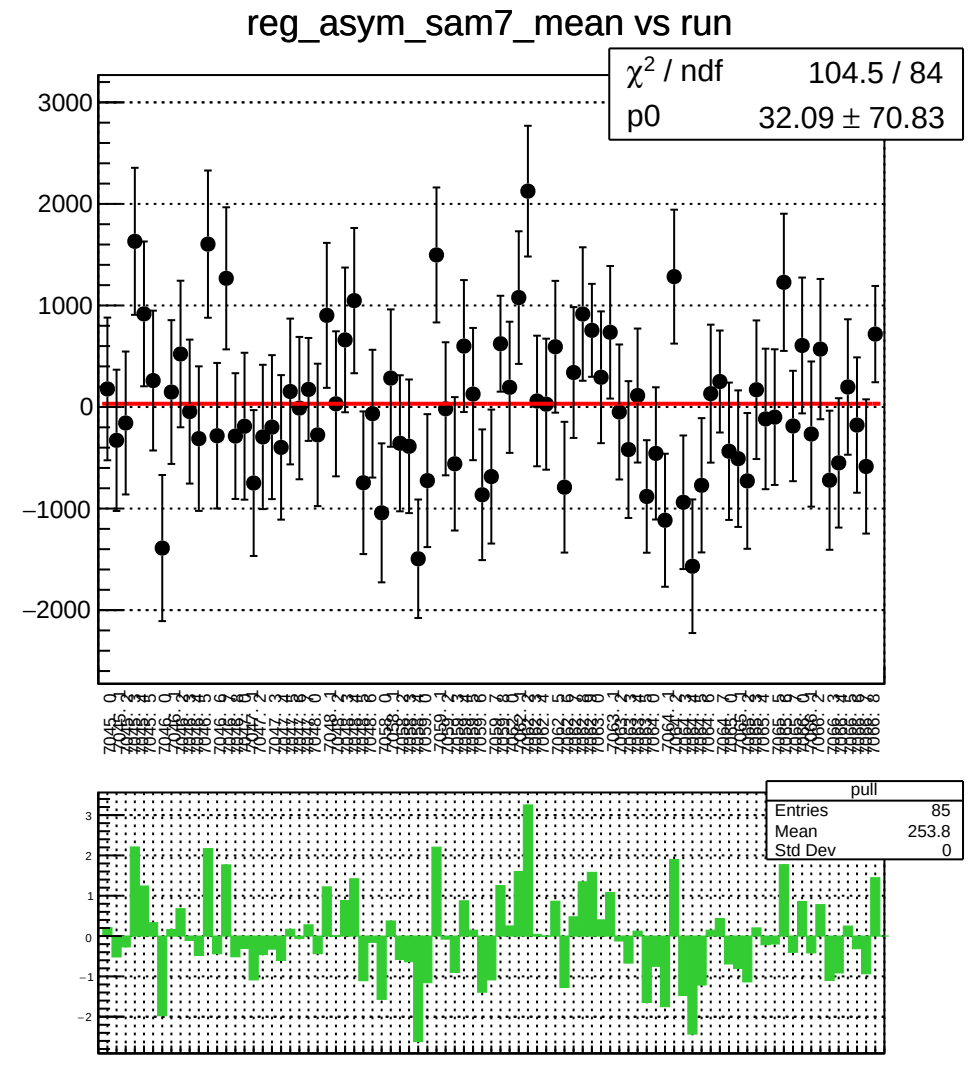

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.42 / 84
p0 0.0701± 0.04635
pull
Entries 85
Mean 255.6
Std Dev 0

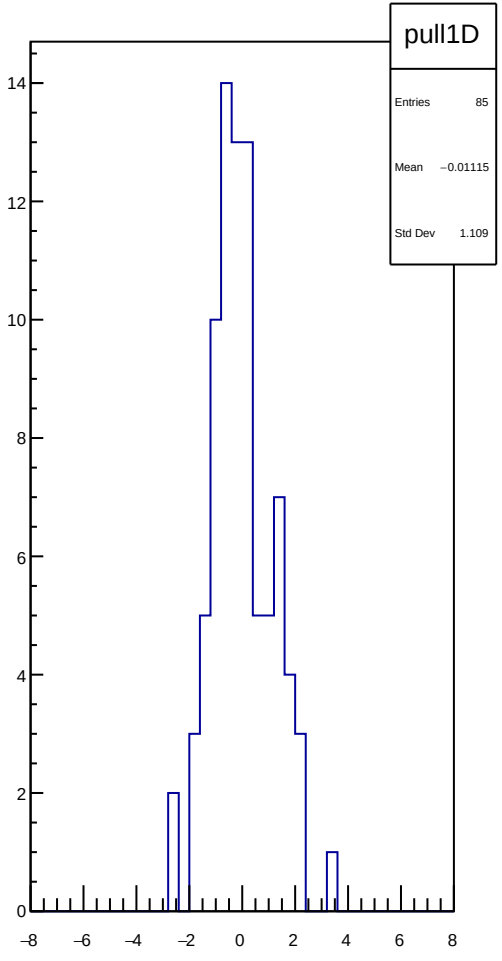

pull1D
Entries 85
Mean 0.01549
Std Dev 0.9786

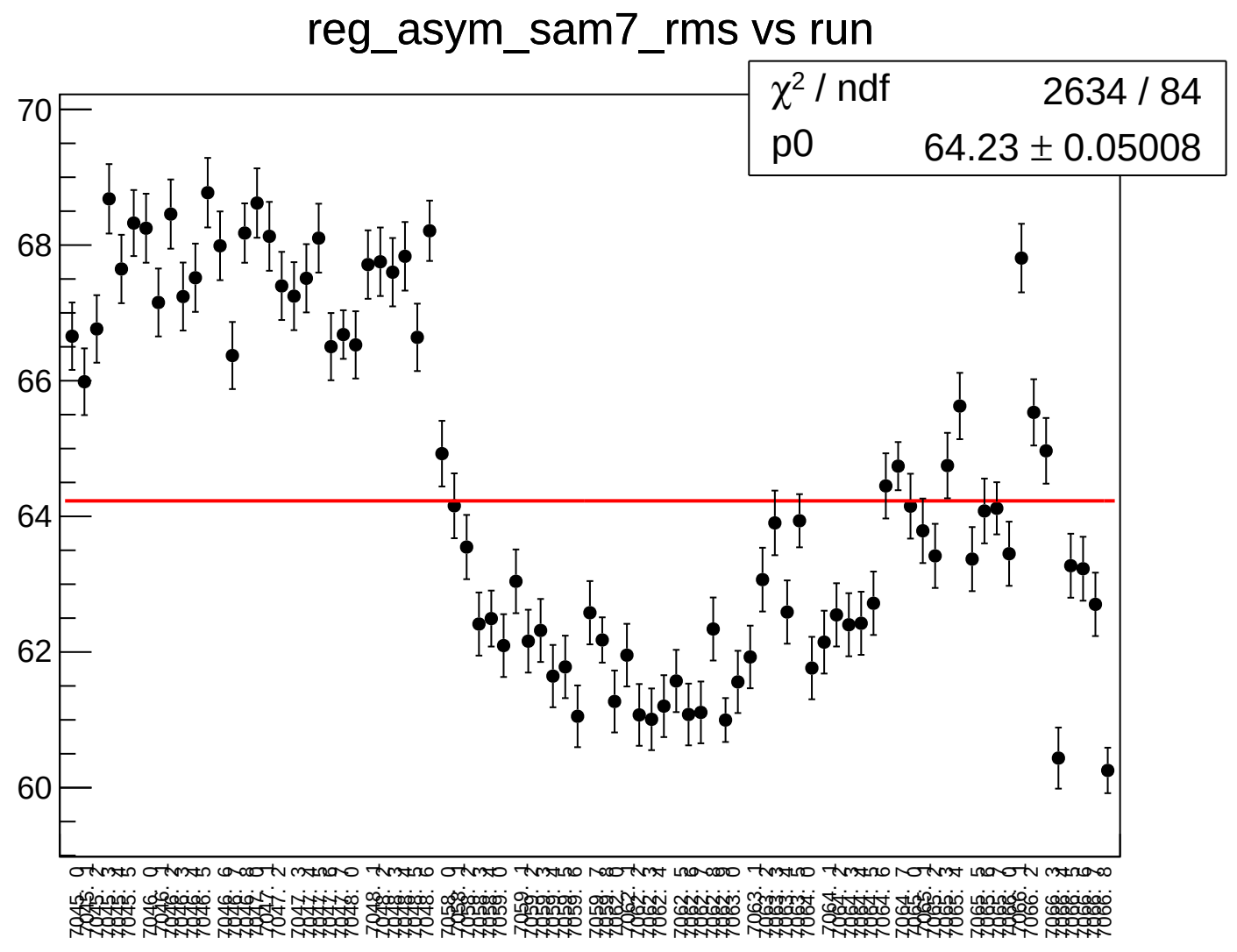

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.963e+04 / 84
p0 41.42 ± 0.03277
70
60
50
40
30

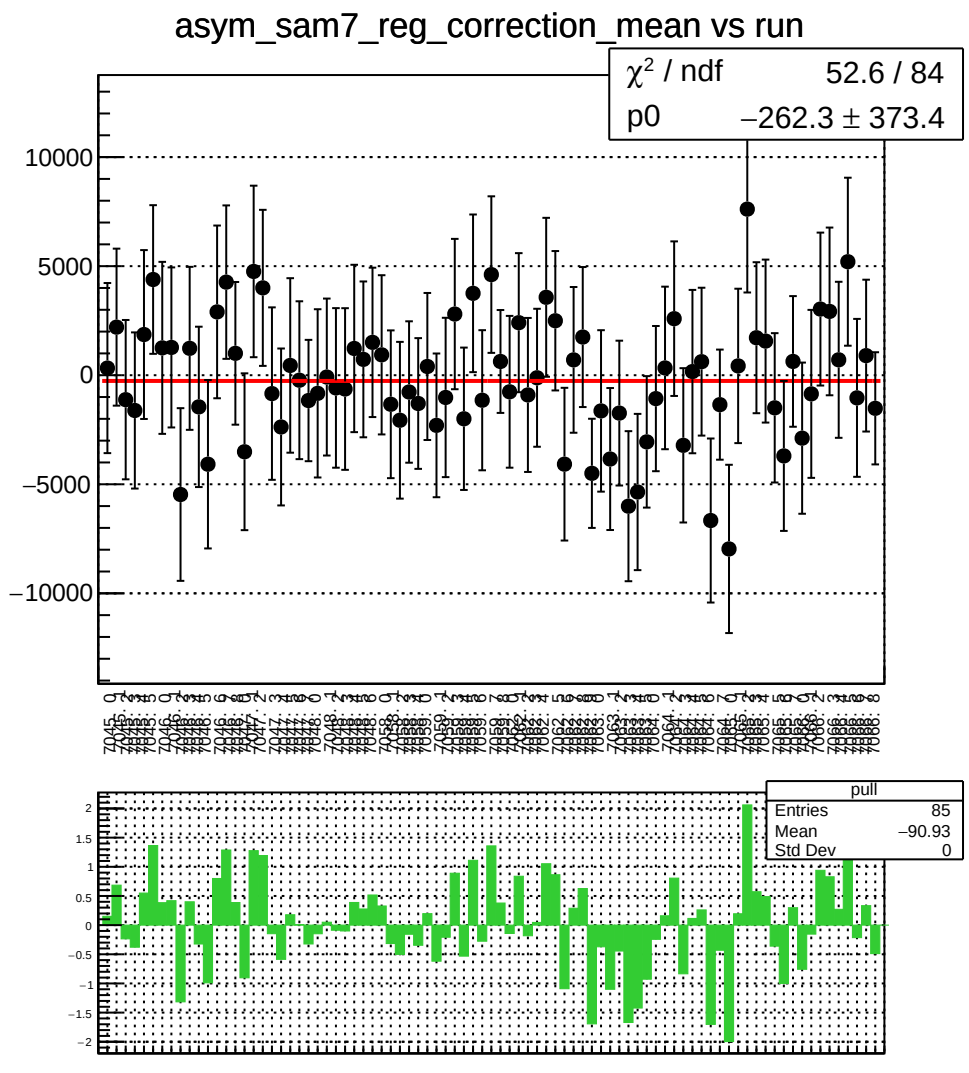

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.89 / 84
p0 2.047e−15 ± 1.725e−14
pull
Entries 85
Mean 114.9
Std Dev 0
pull1D
Entries 85
Mean 0.05896
Std Dev 1.077

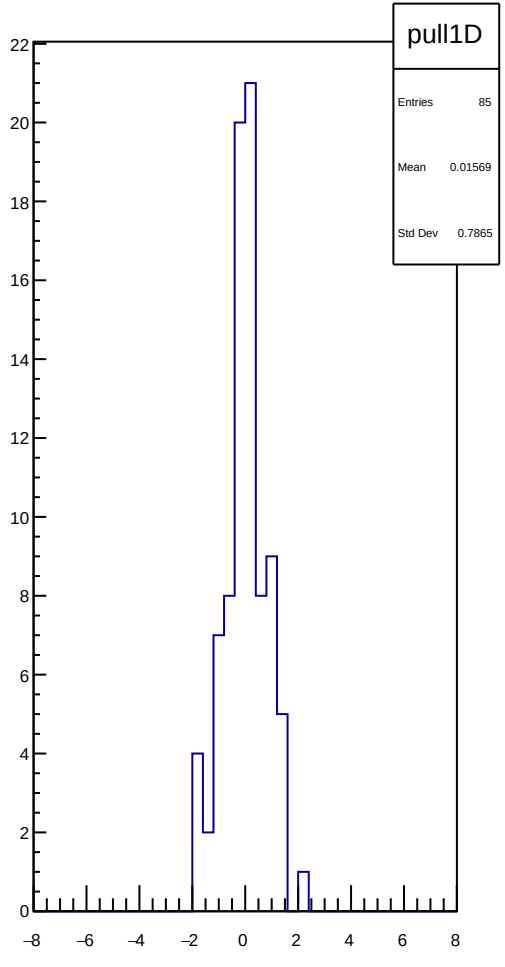

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.966e+05 / 84
p0 1.364e−11 ± 1.22e−14
80
70
60
50
40
30
20
10

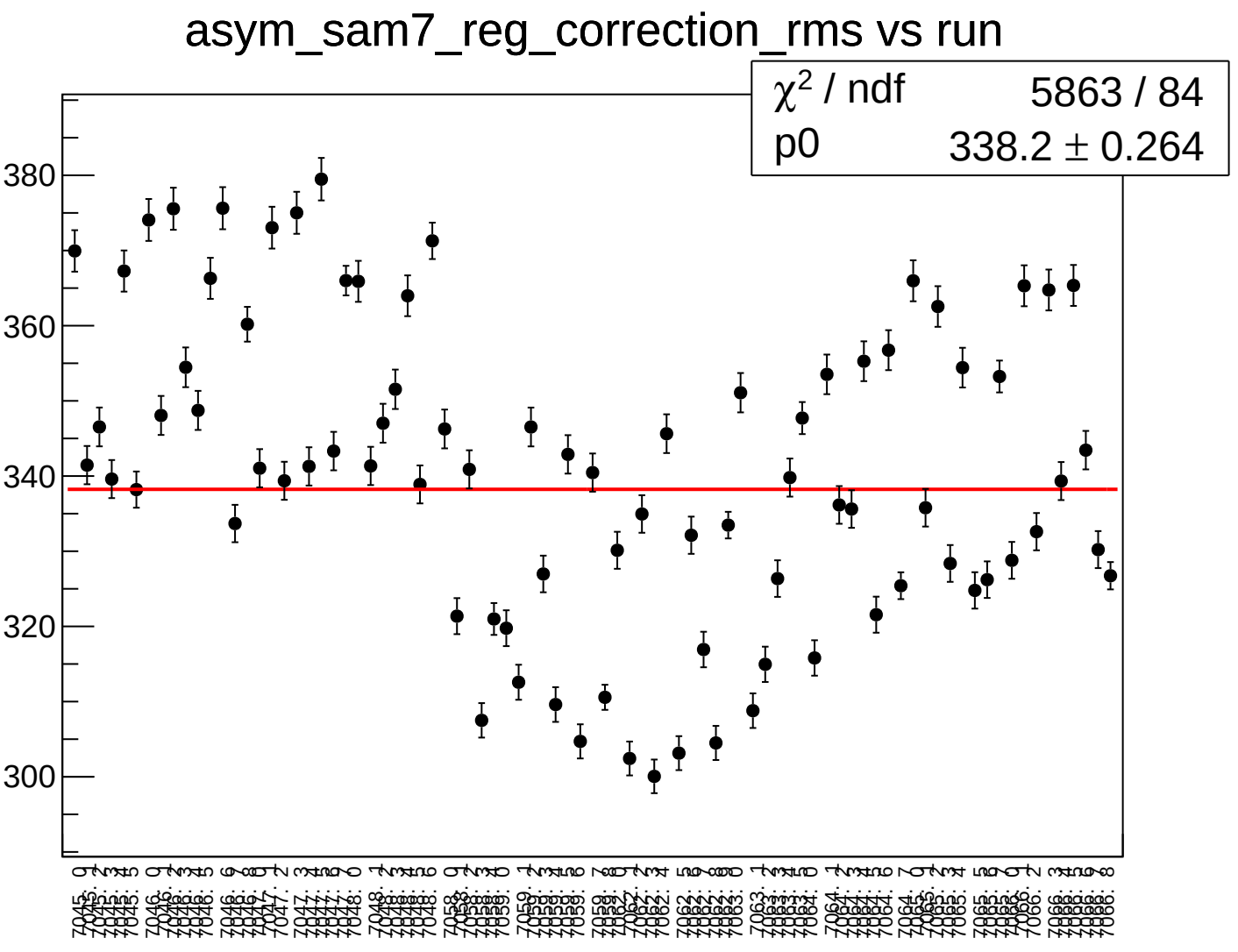

reg_asym_sam7_mean vs run
χ^2 / ndf 104.5 / 84
p0 32.09 ± 70.83
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 253.8
Std Dev 0
3
2
1
0
−1
−2

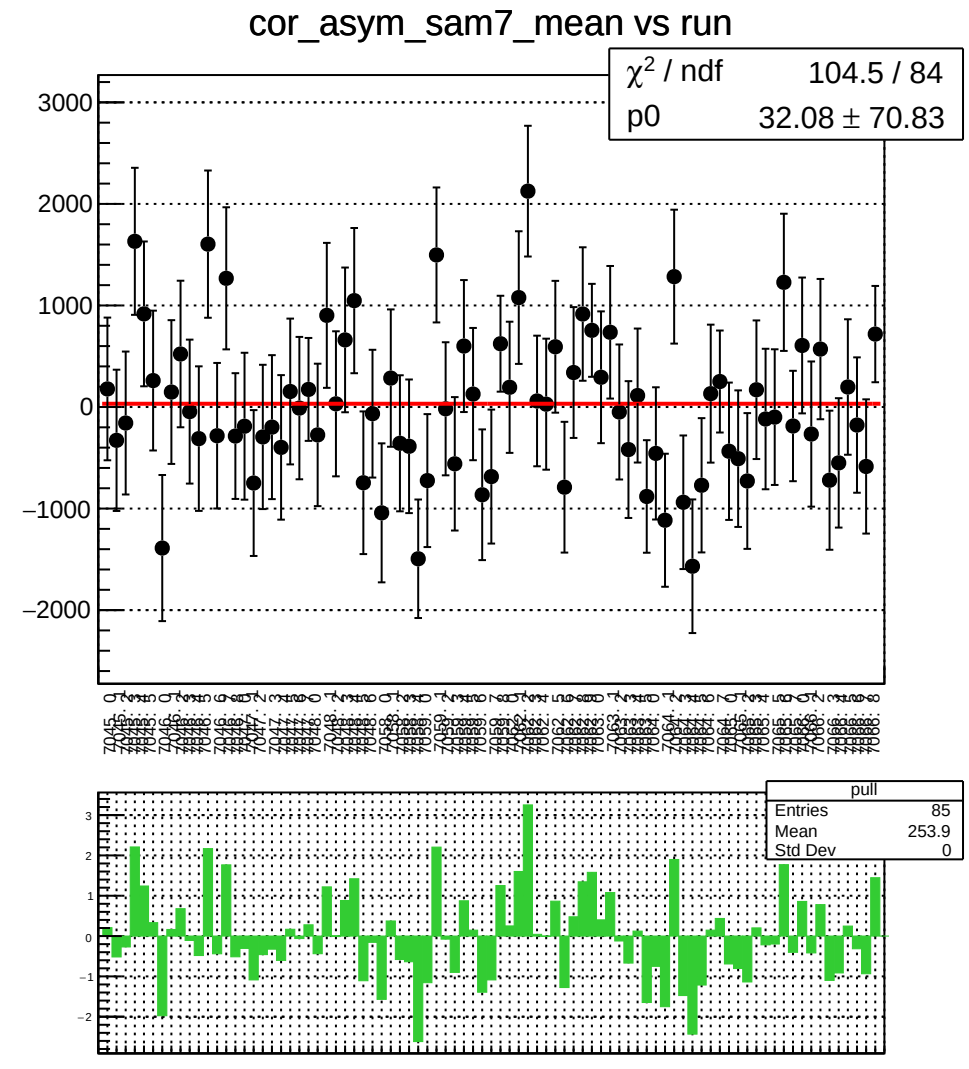

pull1D
Entries 85
Mean −0.01115
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

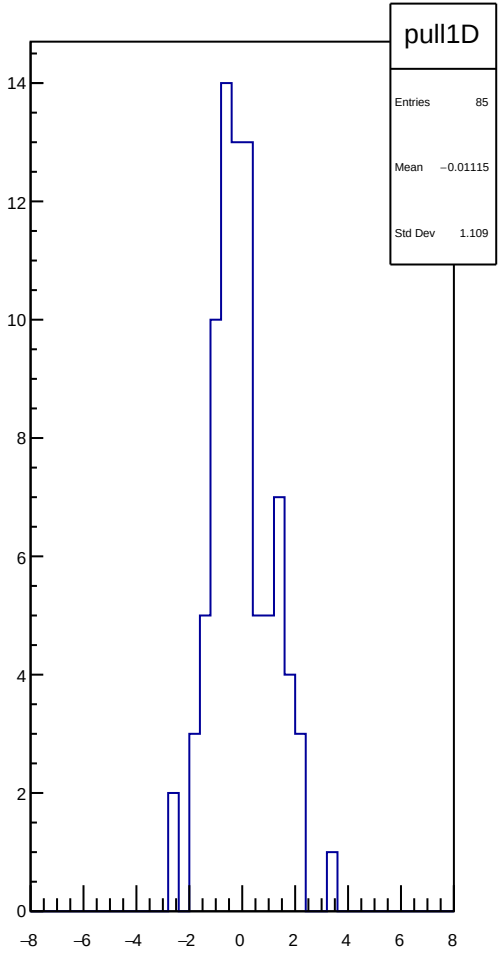

reg_asym_sam7_rms vs run
χ^2 / ndf 2634 / 84
p0 64.23 ± 0.05008
70
68
66
64
62
60

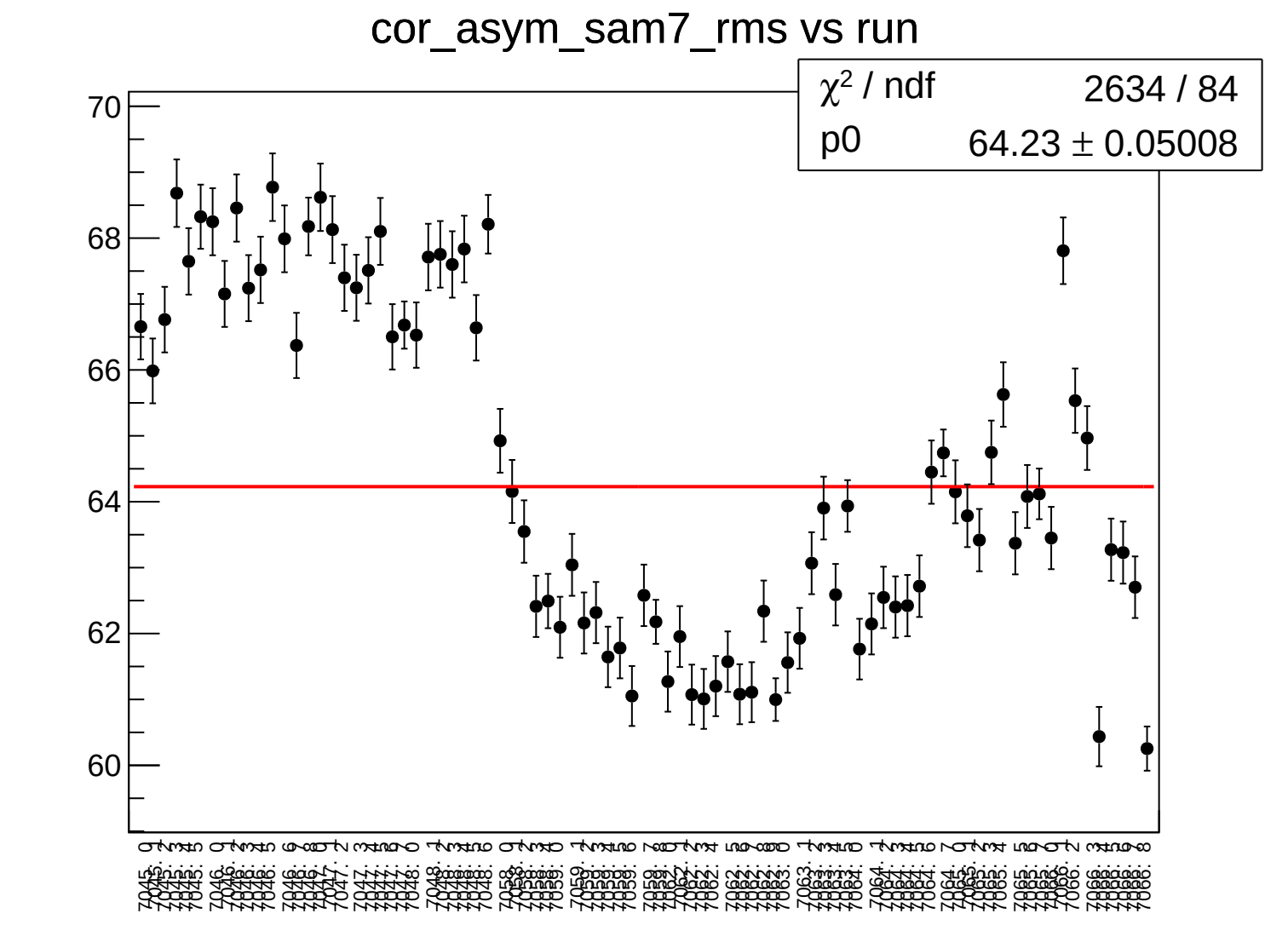

asym_sam7_reg_correction_mean vs run
χ² / ndf 52.6 / 84
p0 −262.3 ± 373.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −90.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

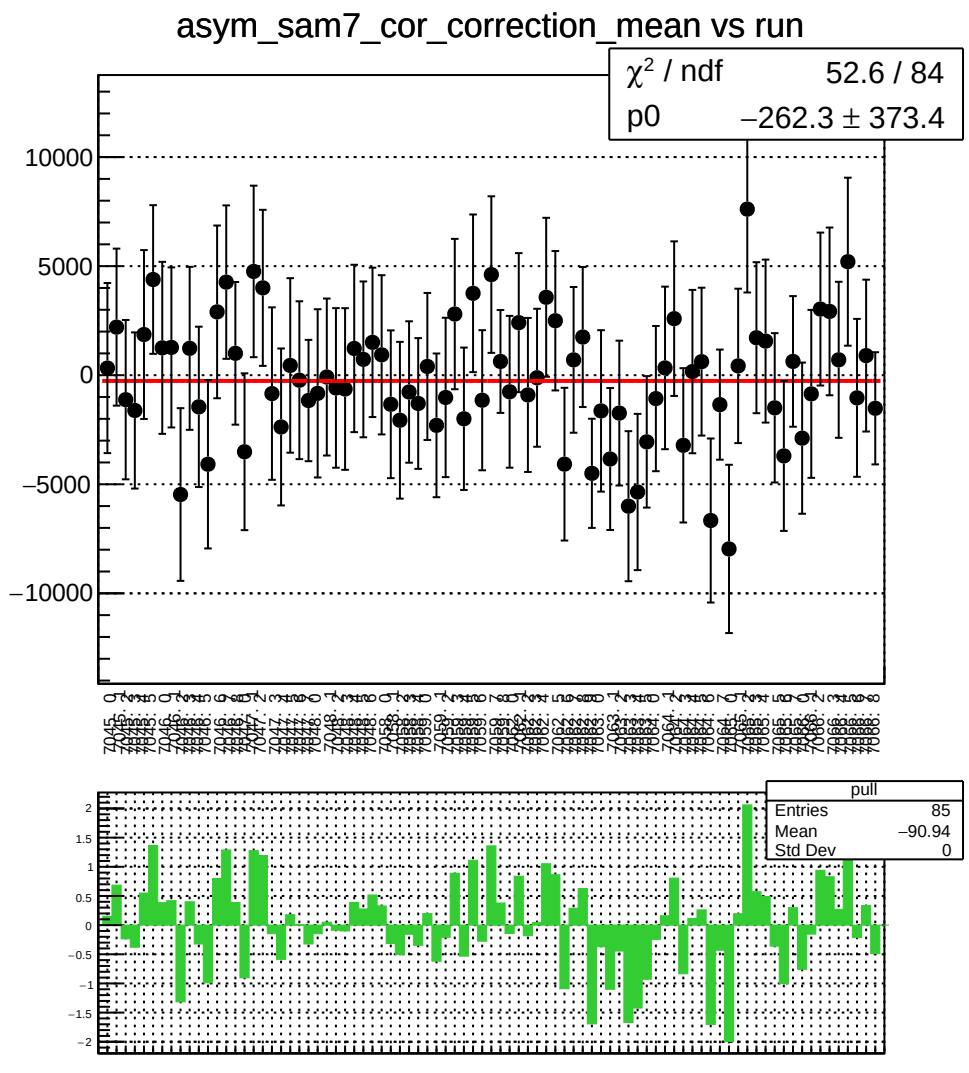

pull1D
Entries 85
Mean 0.01569
Std Dev 0.7865
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

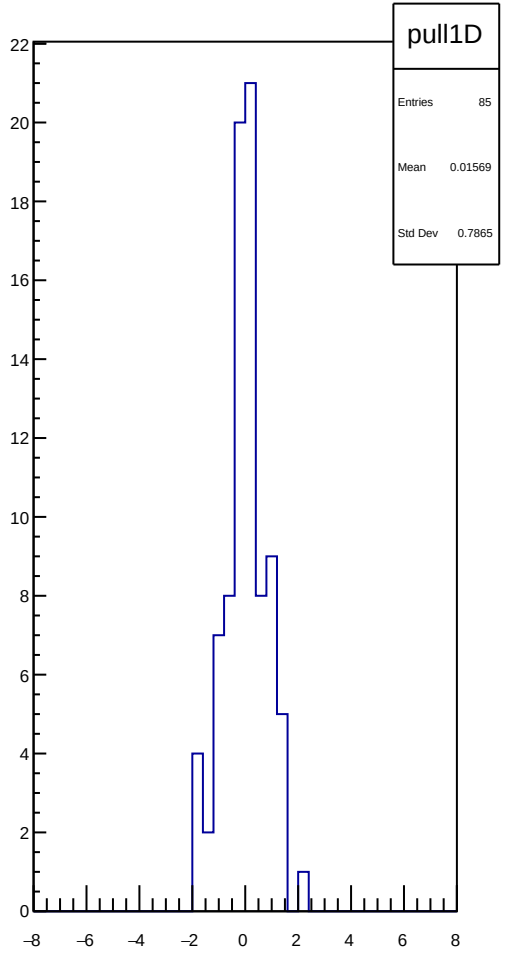

asym_sam7_reg_correction_rms vs run
χ² / ndf 5863 / 84
p0 338.2 ± 0.264
380
360
340
320
300

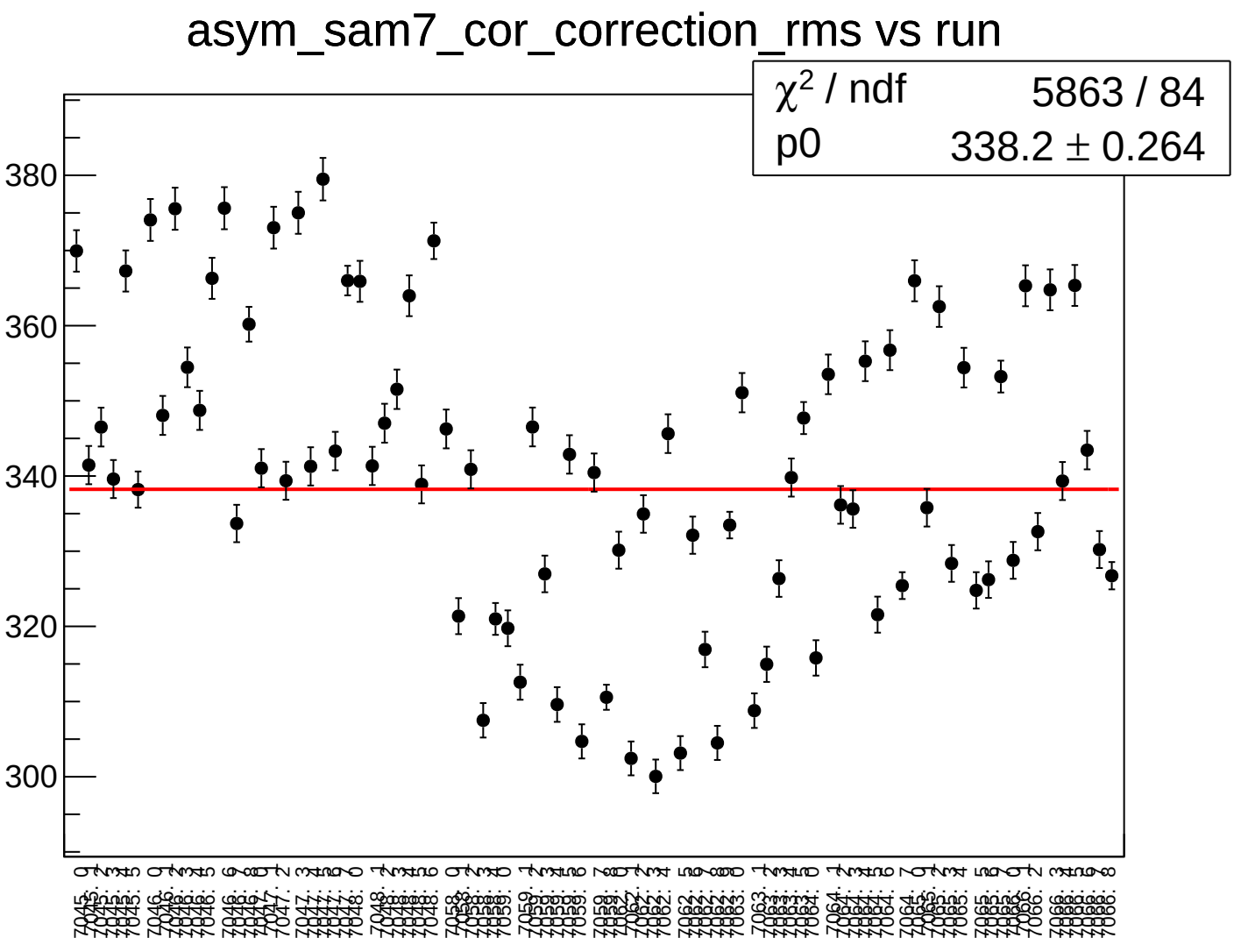

cor_asym_sam7_mean vs run
χ² / ndf 104.5 / 84
p0 32.08 ± 70.83
pull
Entries 85
Mean 253.9
Std Dev 0

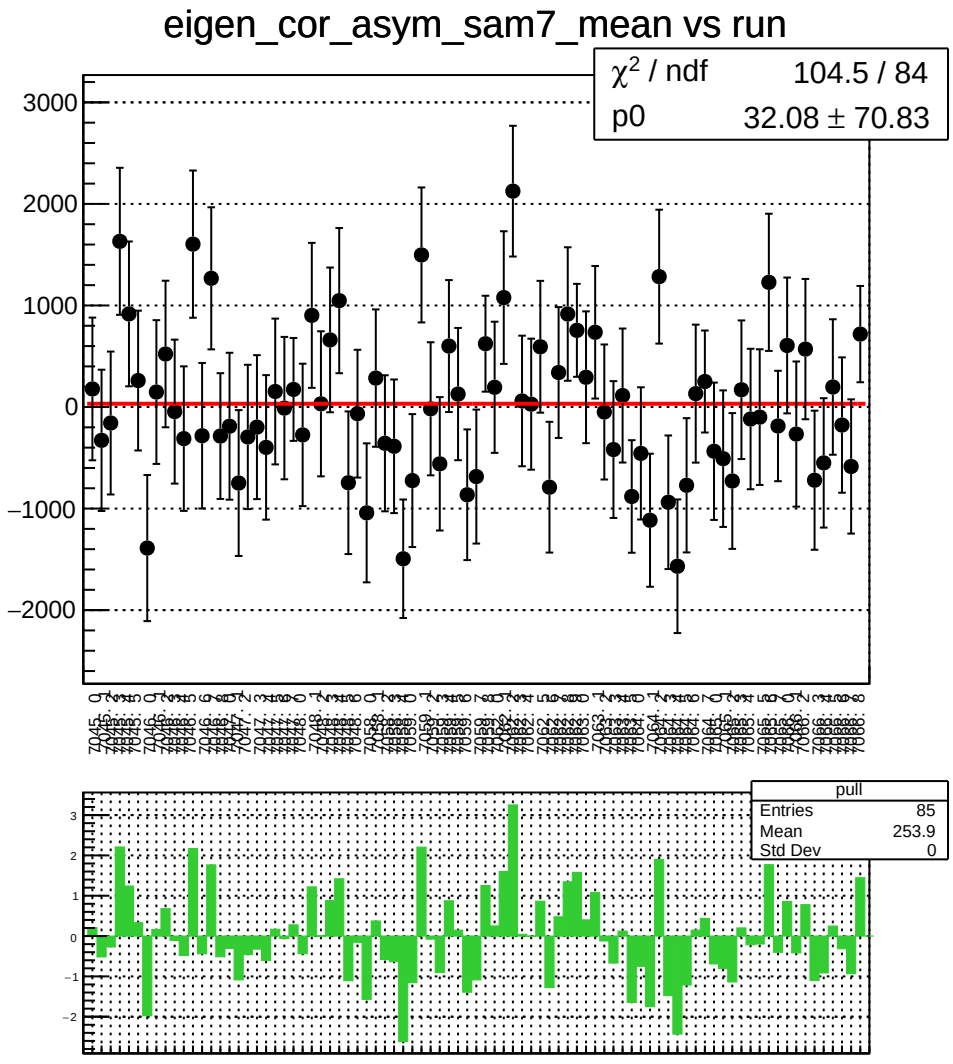

pull1D
Entries 85
Mean −0.01115
Std Dev 1.109

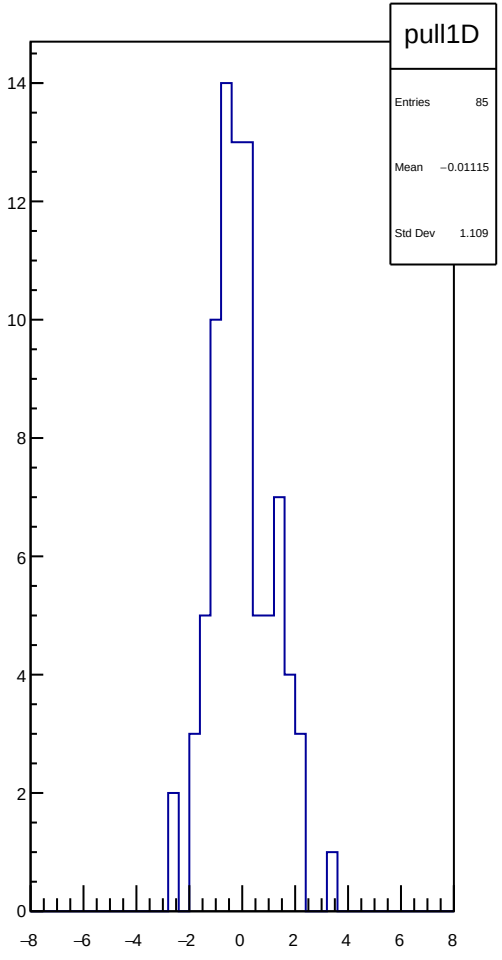

cor_asym_sam7_rms vs run
χ^2 / ndf 2634 / 84
p0 64.23 ± 0.05008
70
68
66
64
62
60

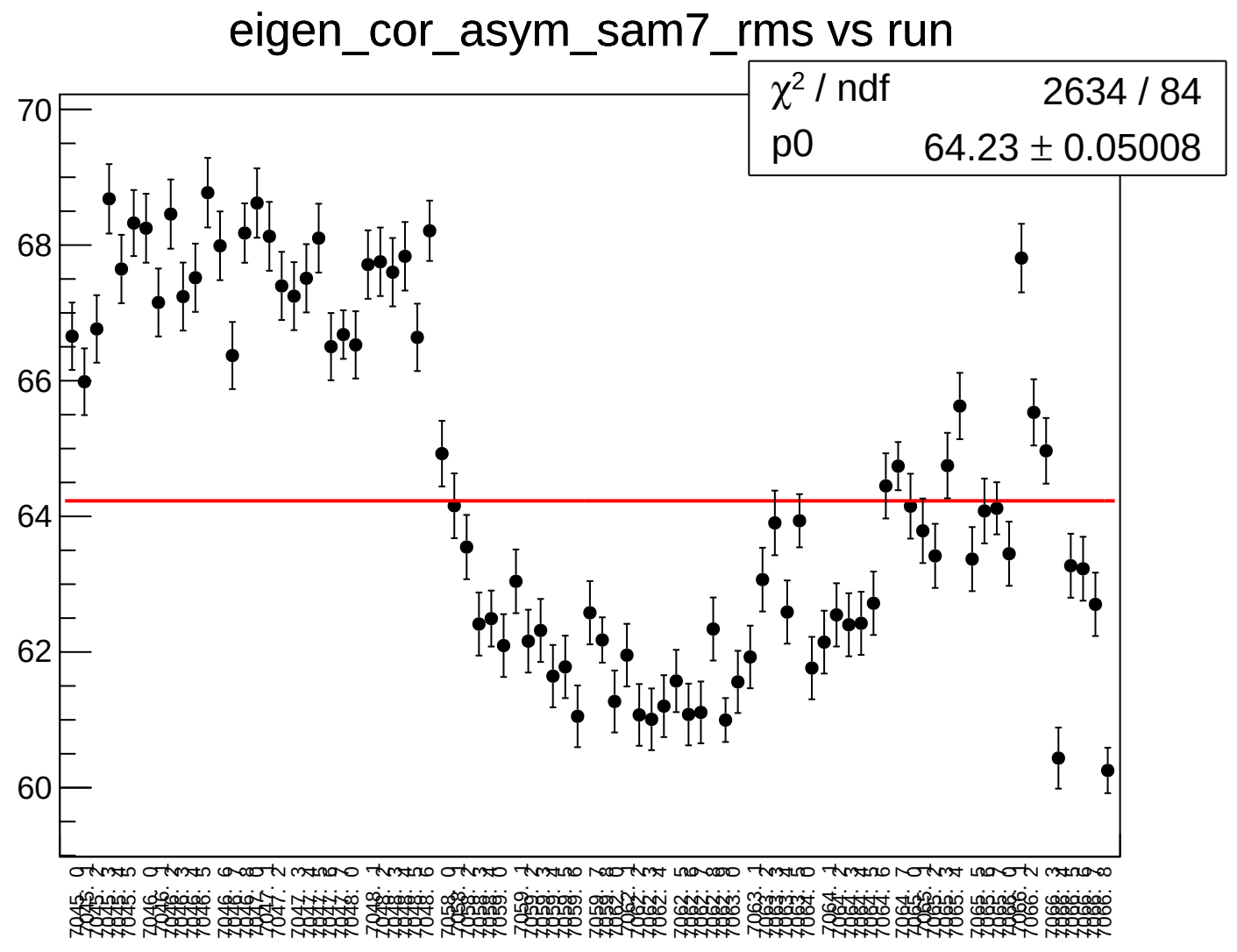

asym_sam7_cor_correction_mean vs run
χ² / ndf 52.6 / 84
p0 −262.3 ± 373.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −90.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

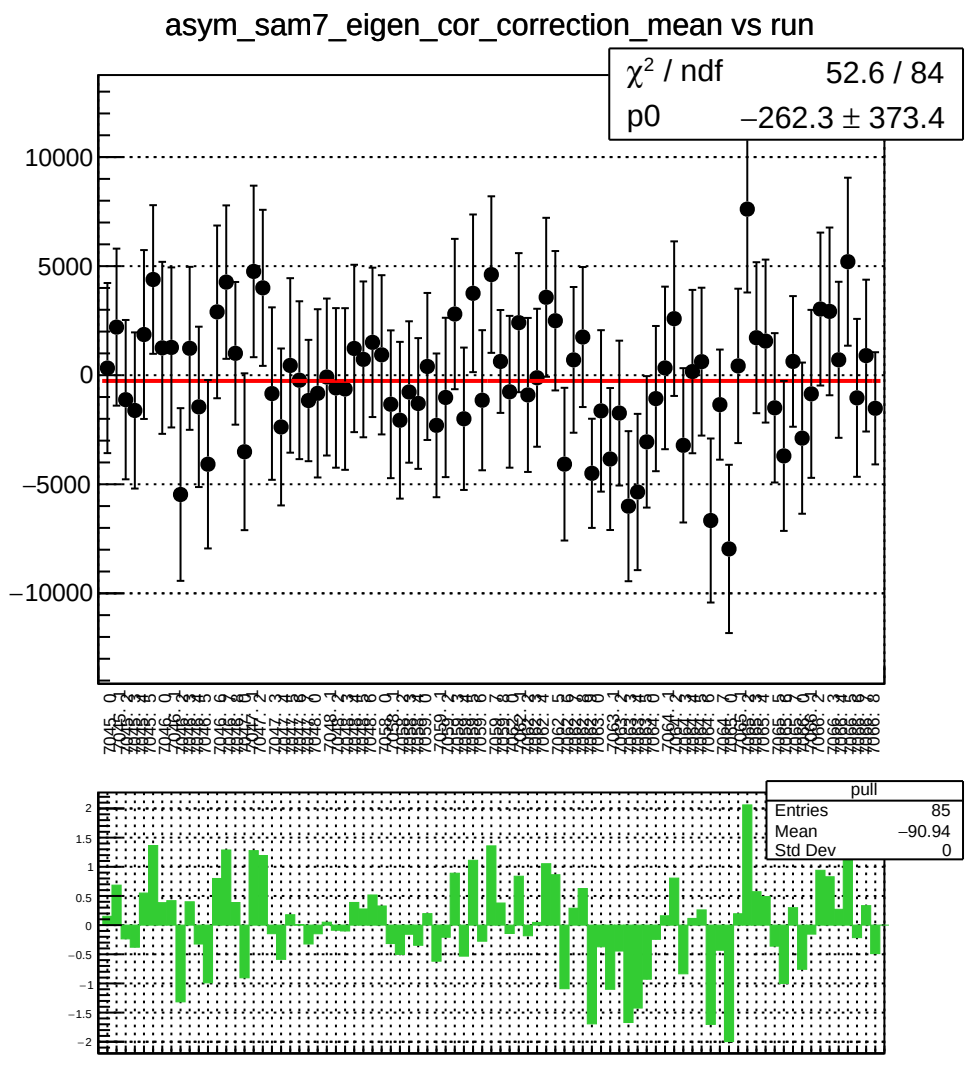

pull1D
Entries 85
Mean 0.01569
Std Dev 0.7865
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

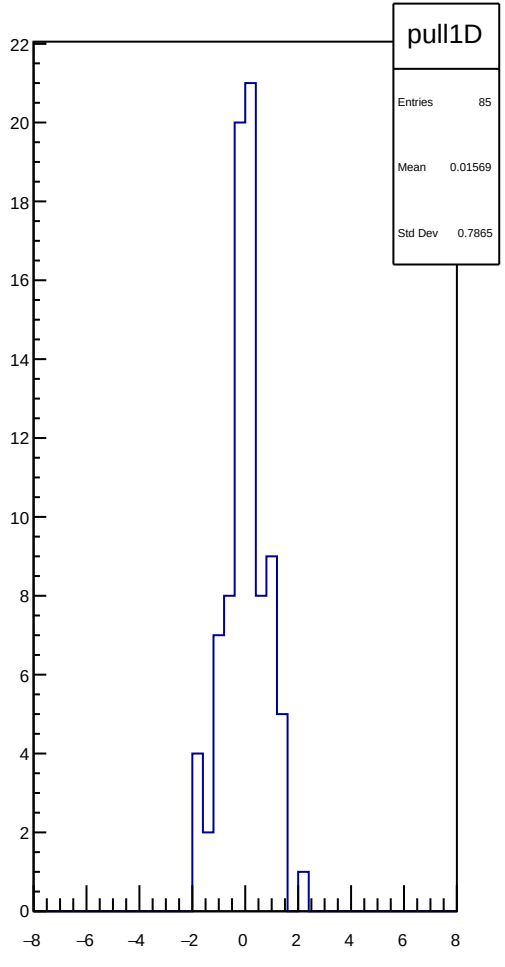

asym_sam7_cor_correction_rms vs run
χ² / ndf 5863 / 84
p0 338.2 ± 0.264
380
360
340
320
300

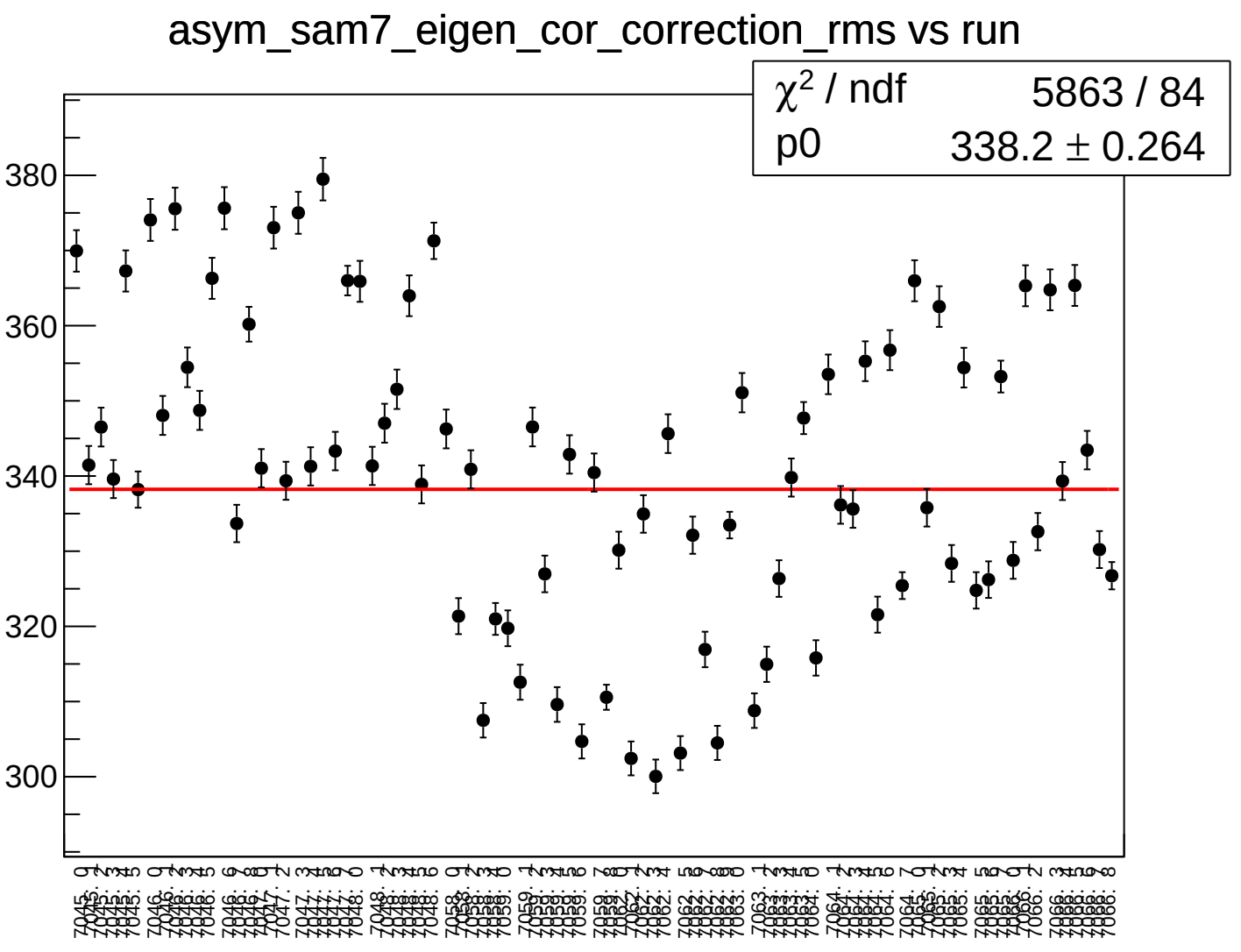

eigen_cor_asym_sam7_mean vs run
χ² / ndf 104.5 / 84
p0 32.08 ± 70.83
pull
Entries 85
Mean 253.9
Std Dev 0

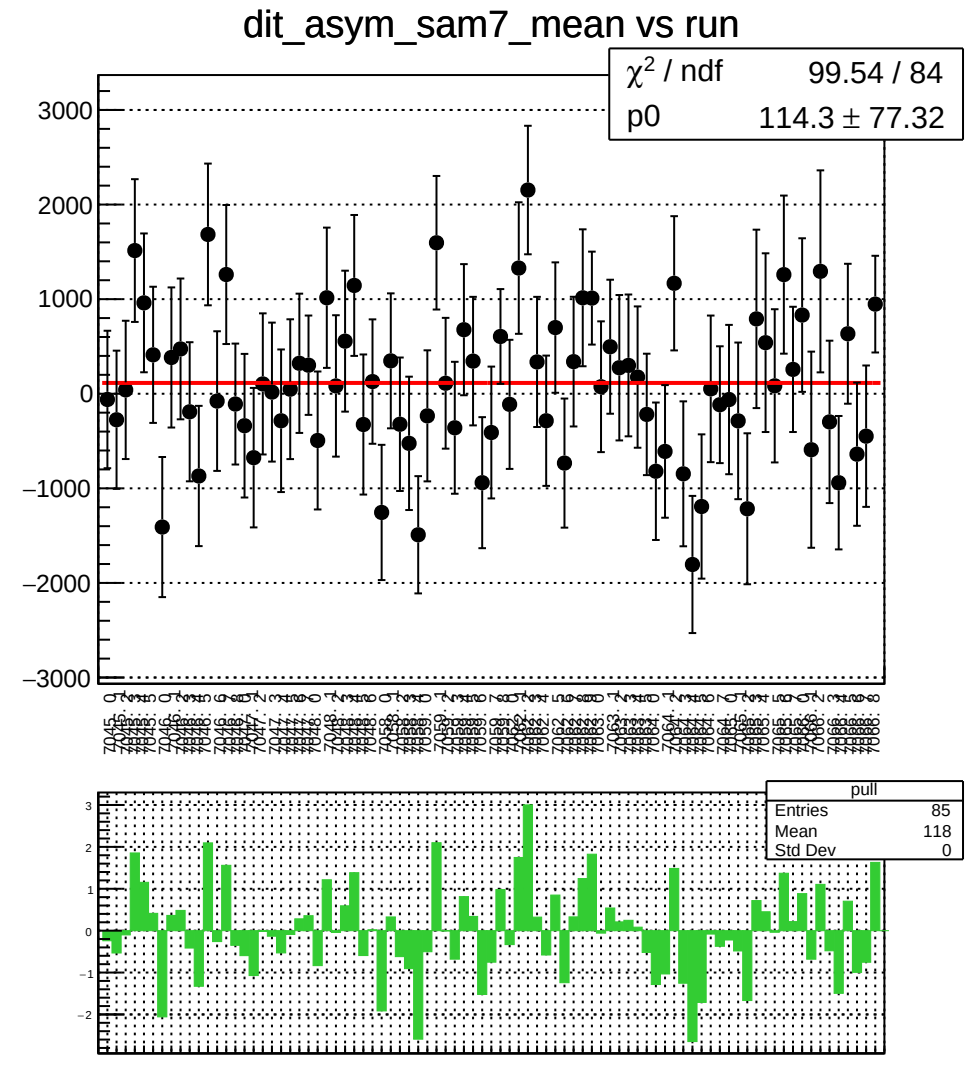

pull1D
Entries 85
Mean −0.01115
Std Dev 1.109

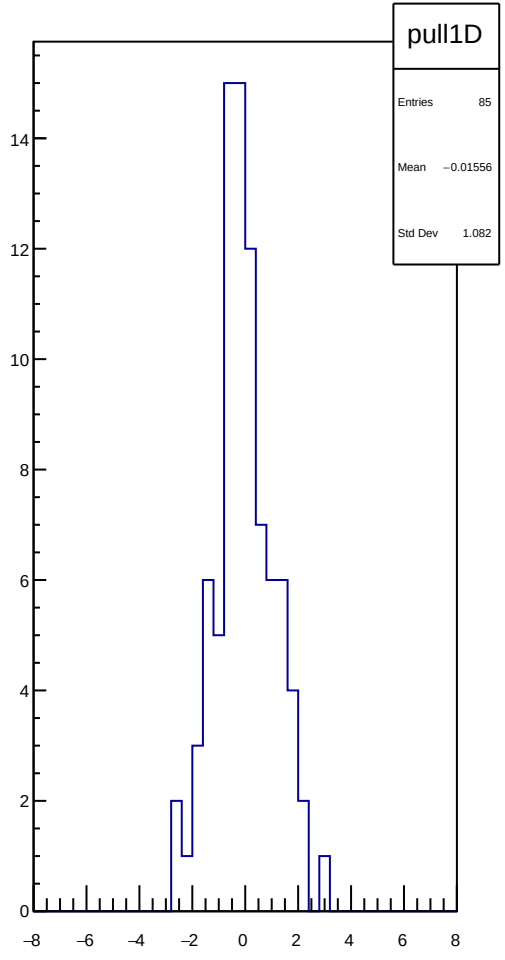

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 2634 / 84
p0 64.23 ± 0.05008
70
68
66
64
62
60

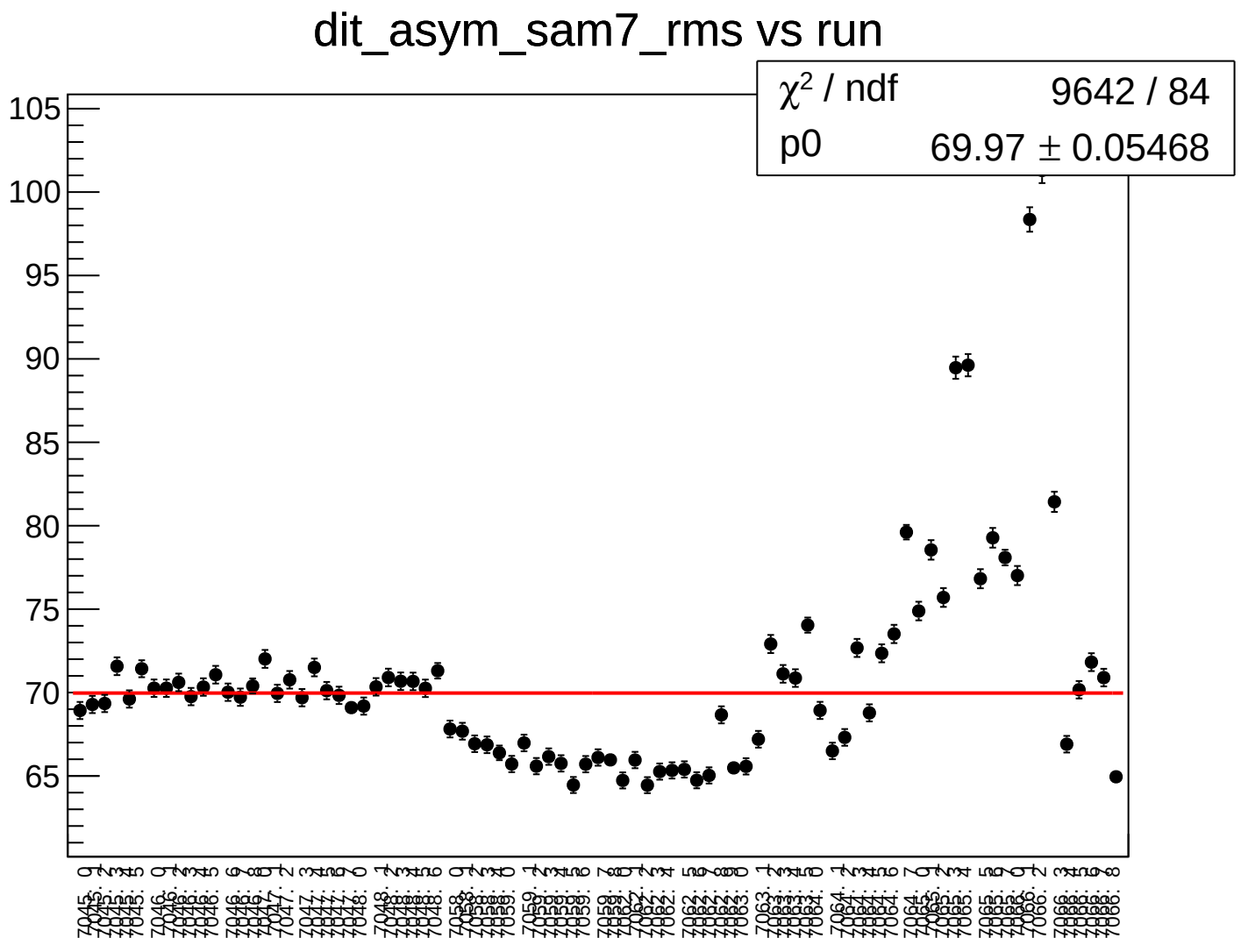

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 52.6 / 84
p0 −262.3 ± 373.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −90.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

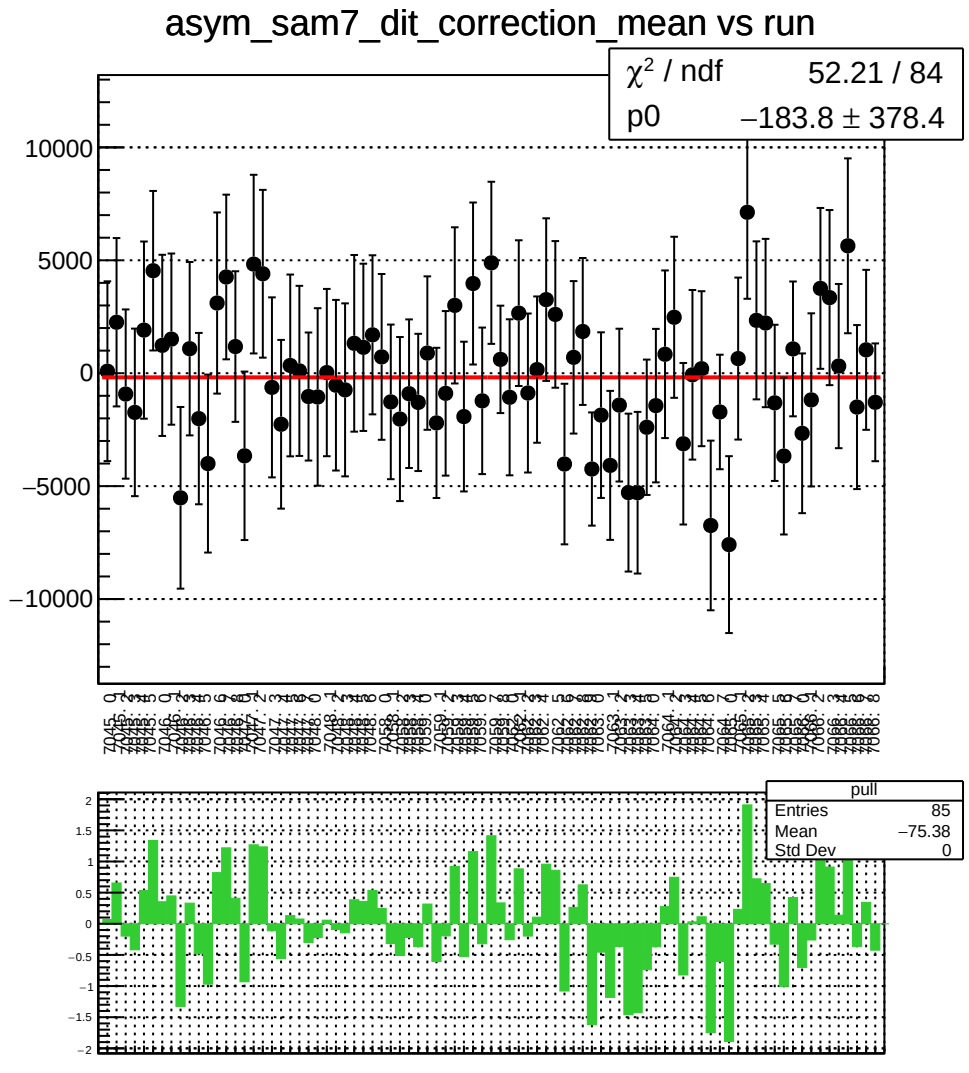

pull1D
Entries 85
Mean 0.01569
Std Dev 0.7865
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

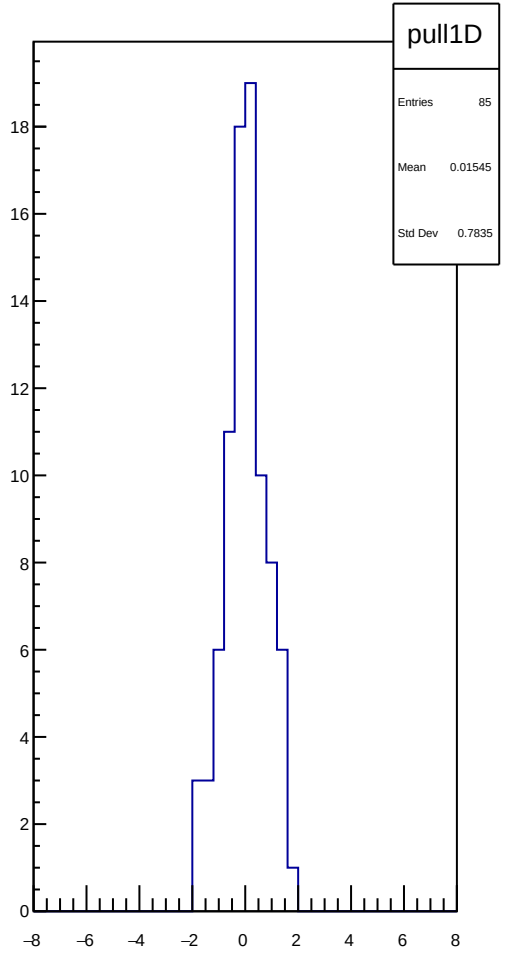

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 5863 / 84
p0 338.2 ± 0.264
380
360
340
320
300

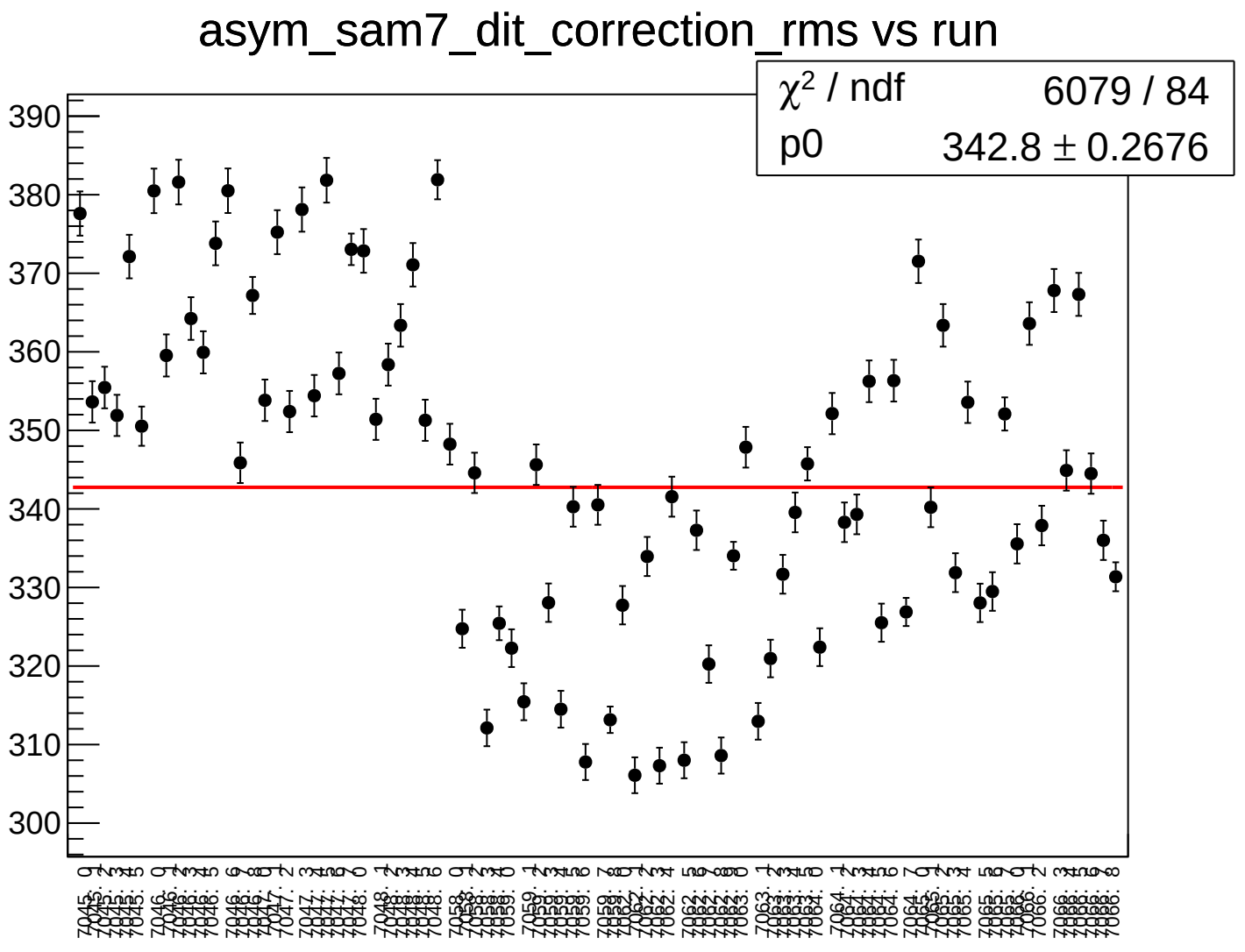

dit_asym_sam7_mean vs run
χ² / ndf 99.54 / 84
p0 114.3 ± 77.32
pull
Entries 85
Mean 118
Std Dev 0

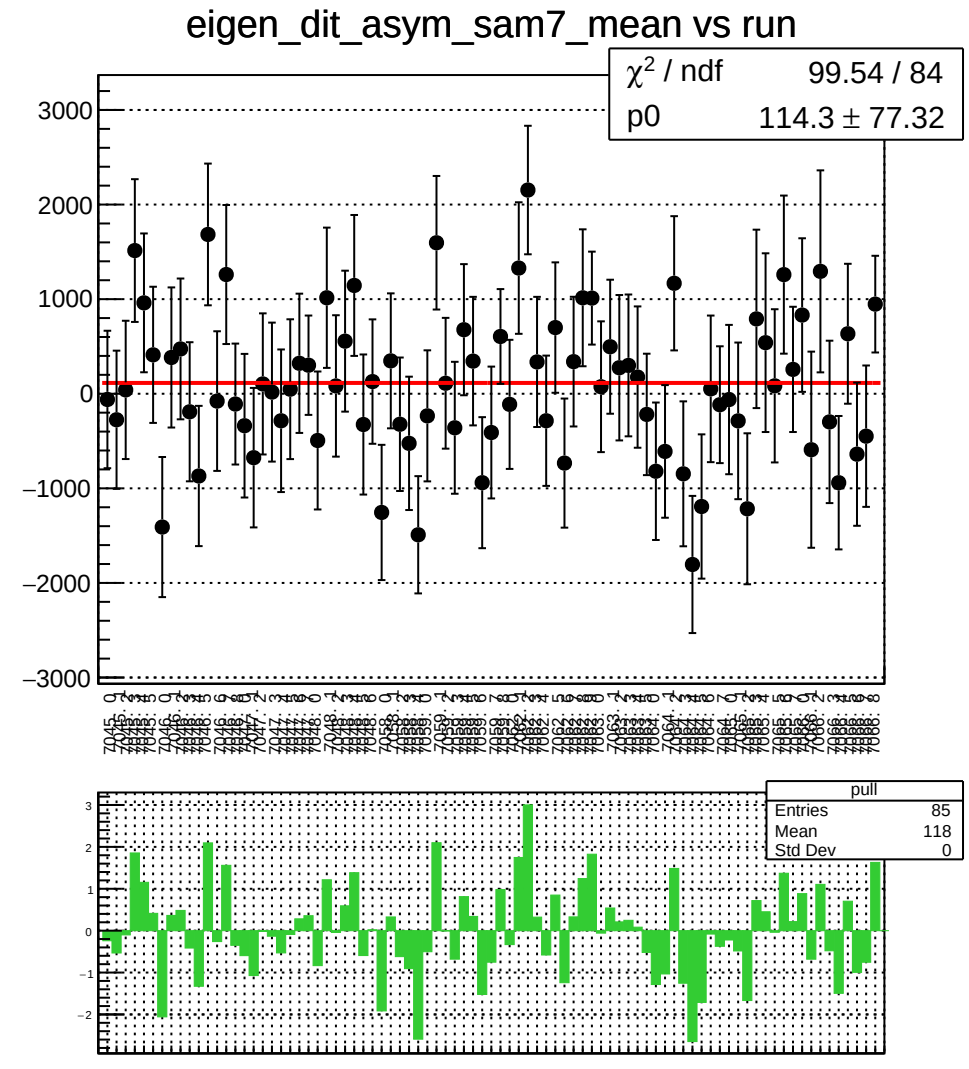

pull1D
Entries 85
Mean −0.01556
Std Dev 1.082

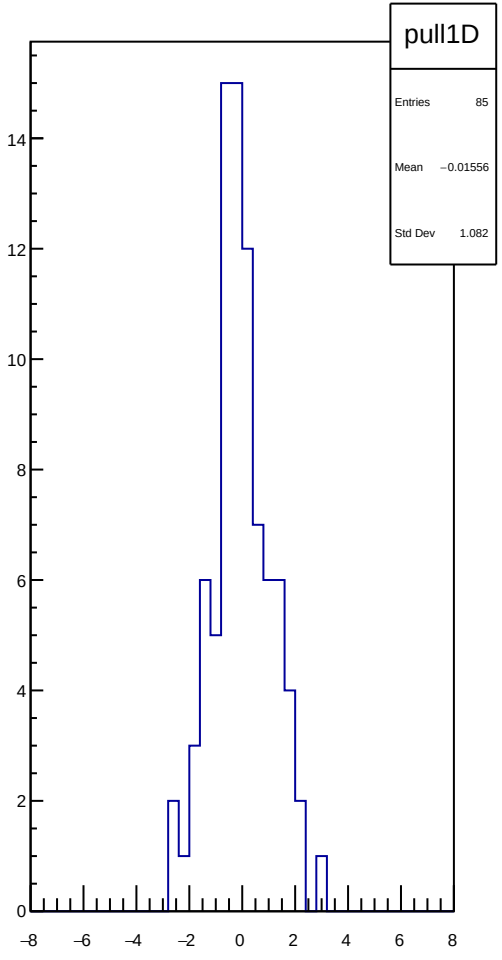

dit_asym_sam7_rms vs run
χ² / ndf 9642 / 84
p0 69.97 ± 0.05468
105
100
95
90
85
80
75
70
65

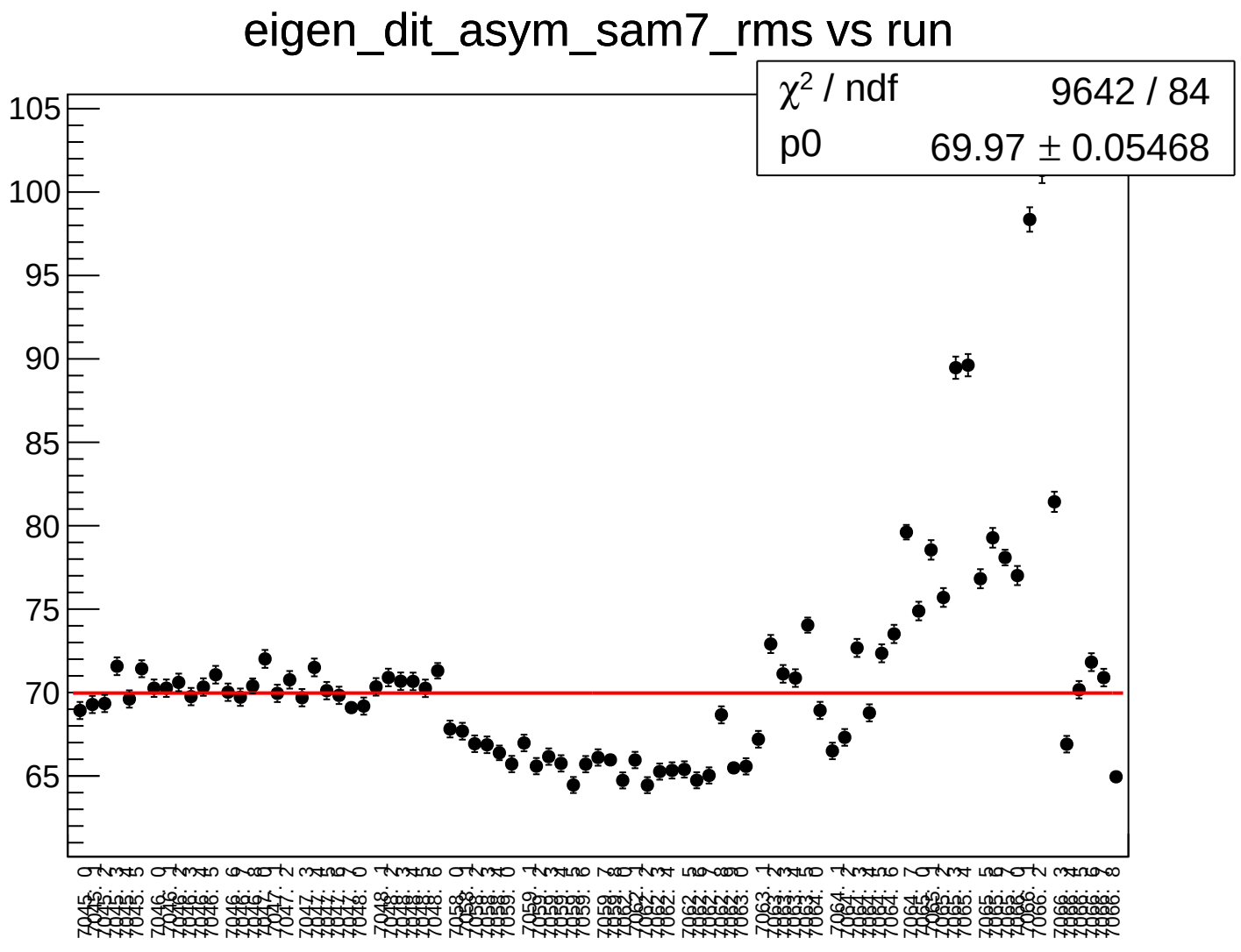

asym_sam7_dit_correction_mean vs run
χ² / ndf 52.21 / 84
p0 −183.8 ± 378.4
pull
Entries 85
Mean −75.38
Std Dev 0

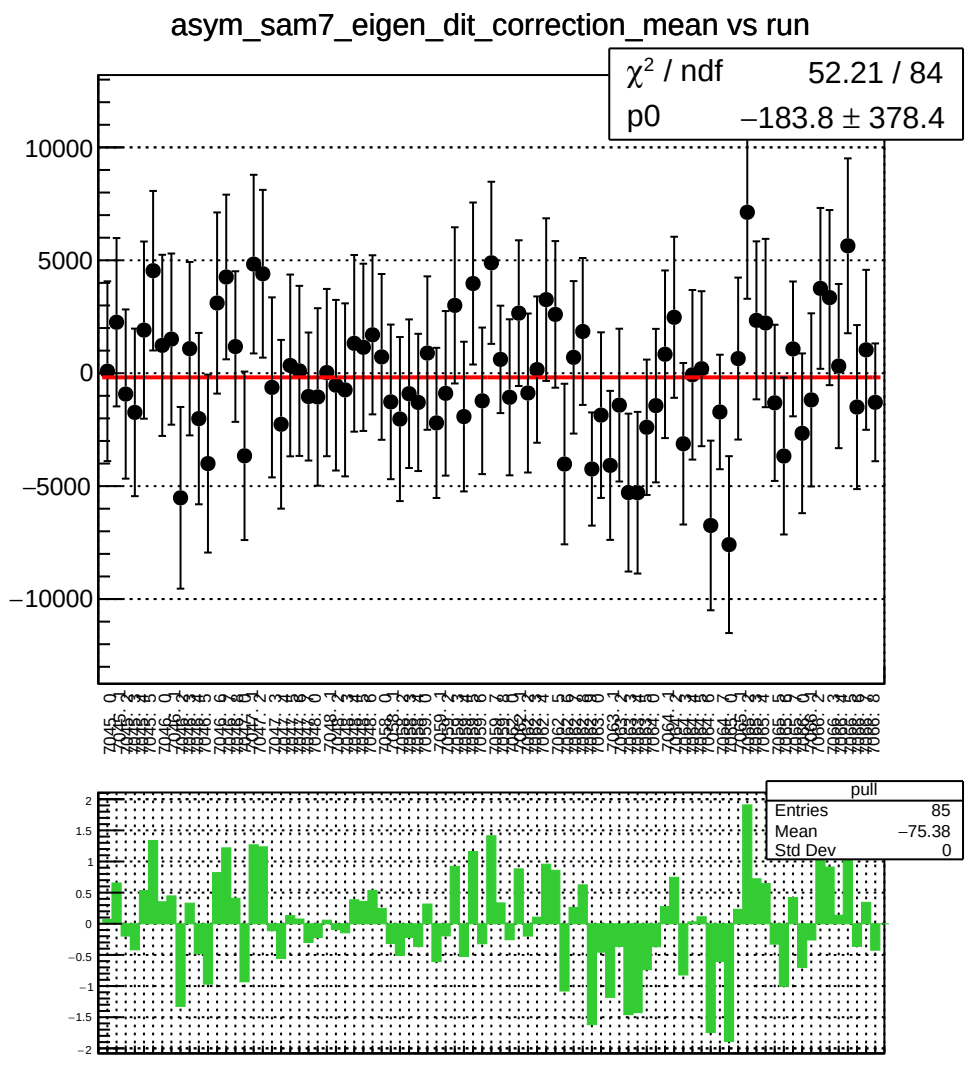

pull1D
Entries 85
Mean 0.01545
Std Dev 0.7835

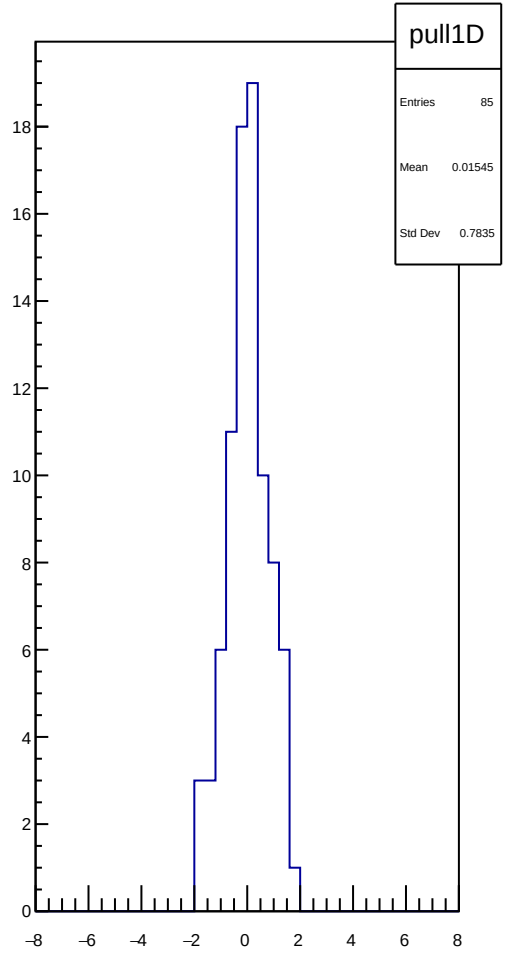

asym_sam7_dit_correction_rms vs run
χ² / ndf 6079 / 84
p0 342.8 ± 0.2676
390
380
370
360
350
340
330
320
310
300

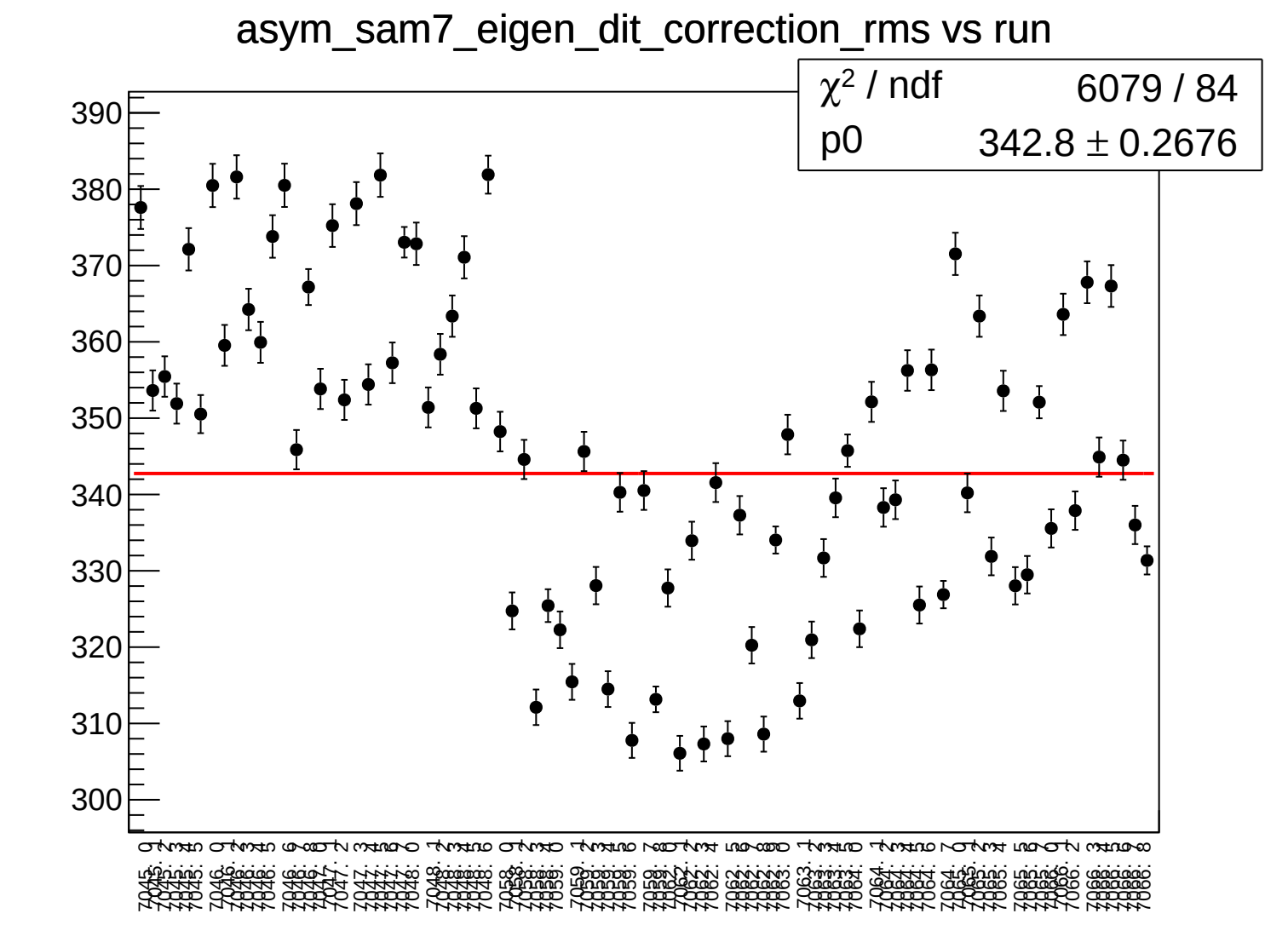

eigen_dit_asym_sam7_mean vs run
χ² / ndf 99.54 / 84
p0 114.3 ± 77.32
pull
Entries 85
Mean 118
Std Dev 0

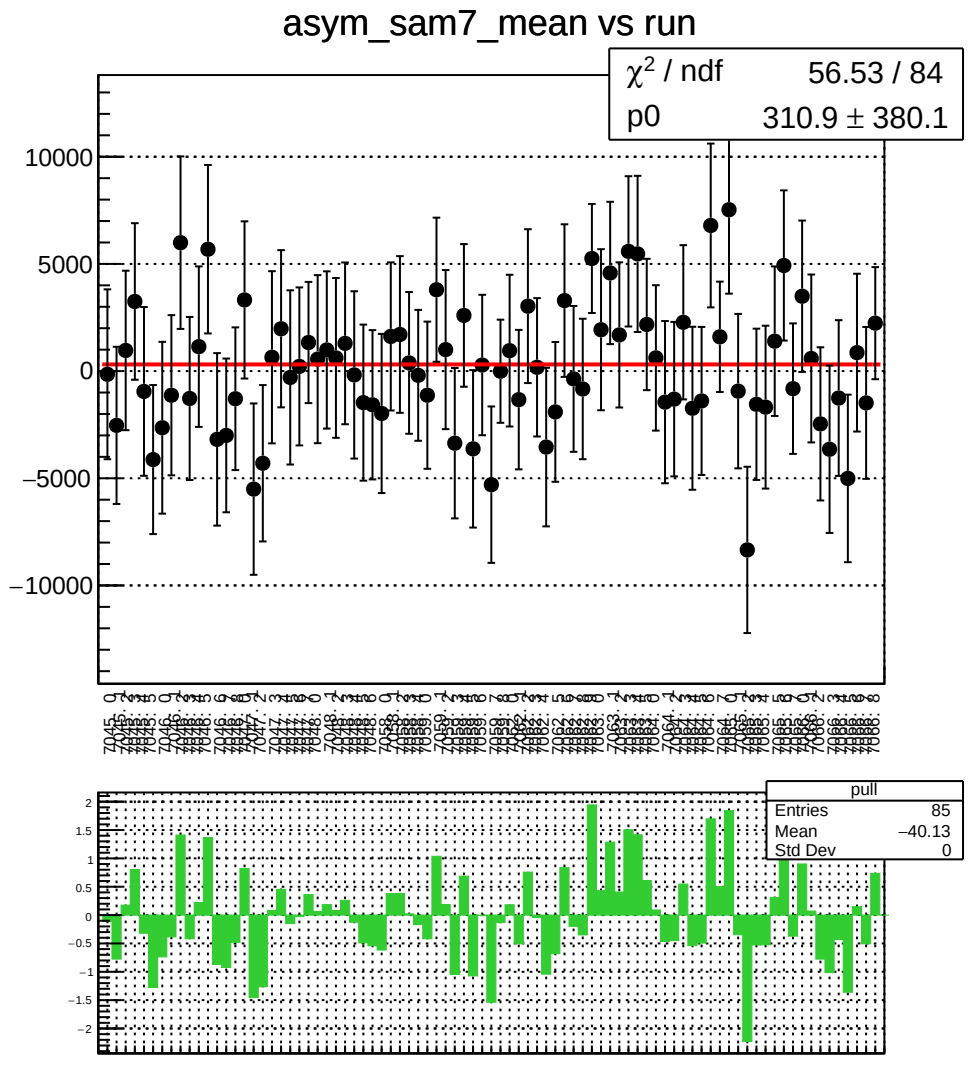

pull1D
Entries 85
Mean −0.01556
Std Dev 1.082

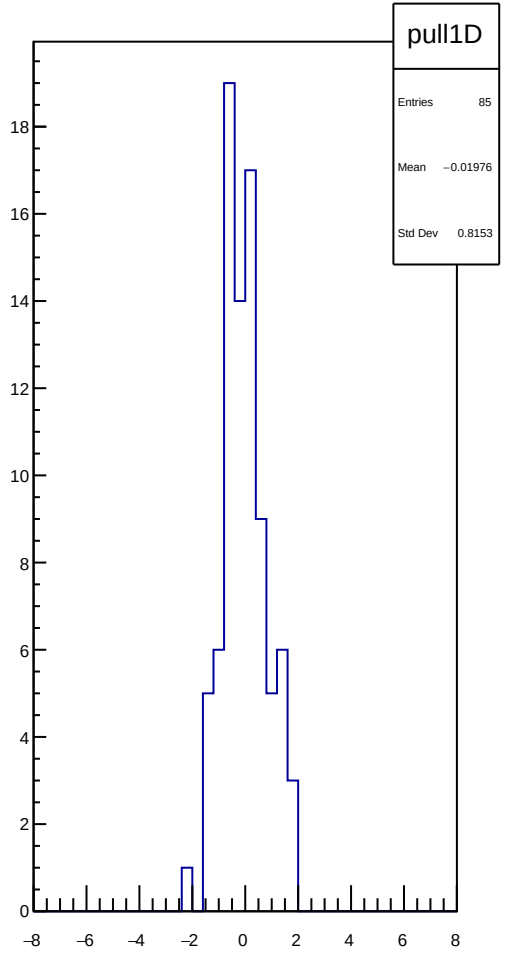

eigen_dit_asym_sam7_rms vs run
χ² / ndf 9642 / 84
p0 69.97 ± 0.05468
105
100
95
90
85
80
75
70
65

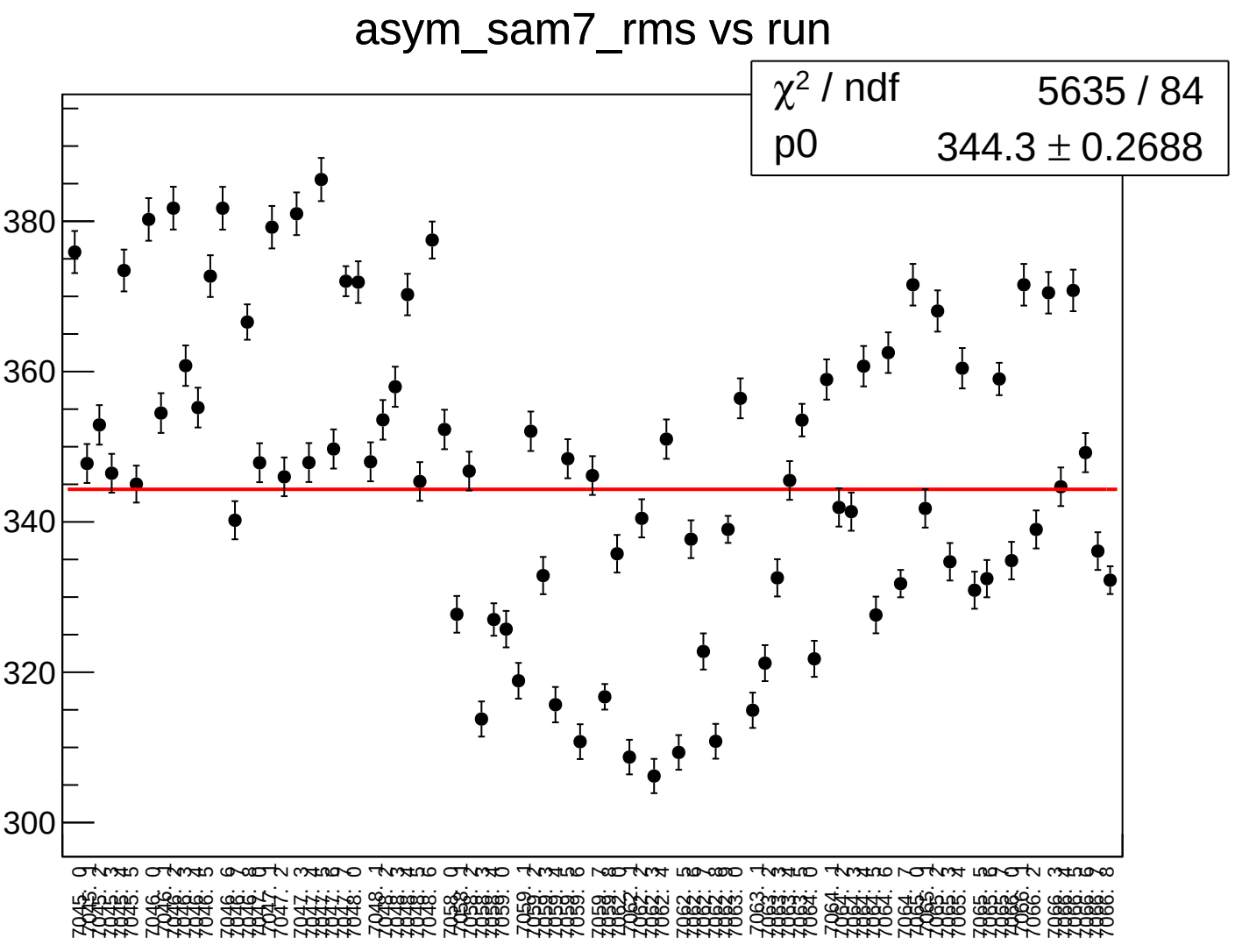

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 52.21 / 84
p0 −183.8 ± 378.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −75.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

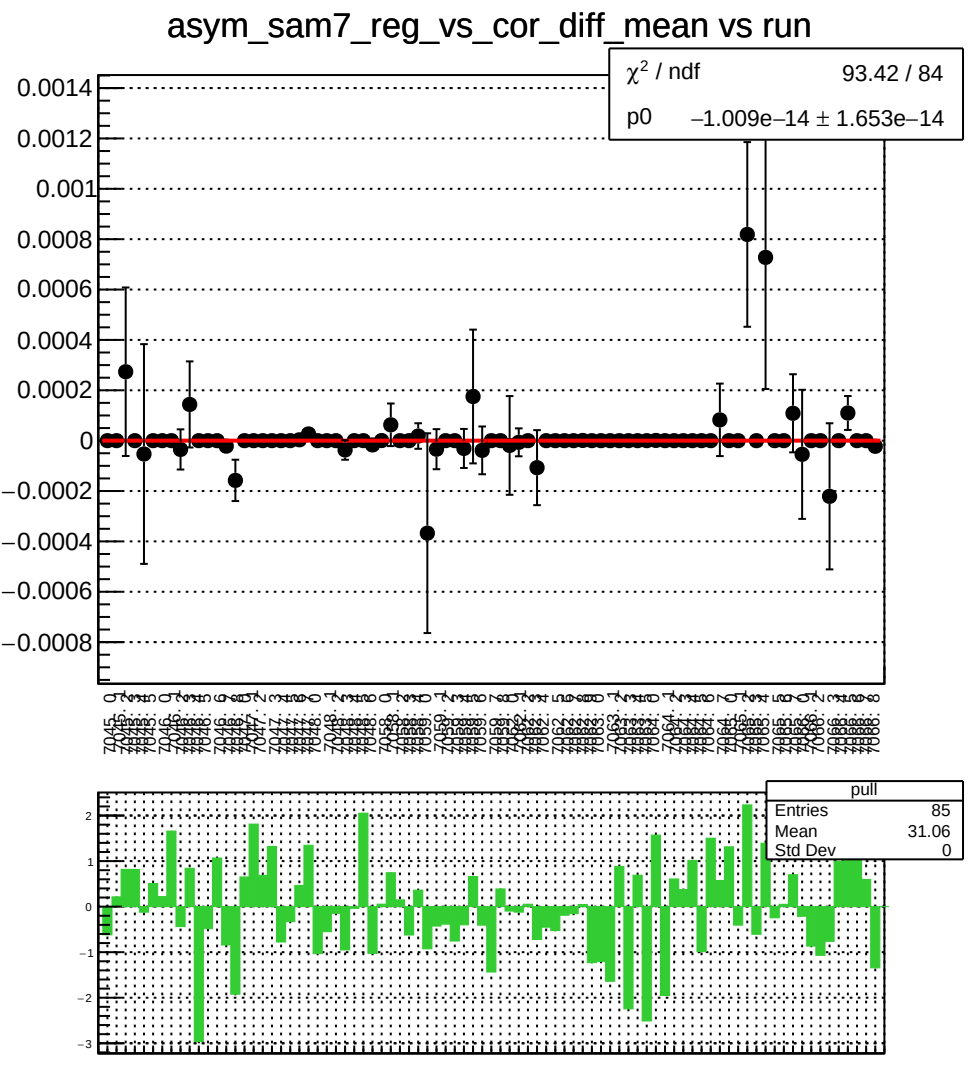

pull1D
Entries 85
Mean 0.01545
Std Dev 0.7835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

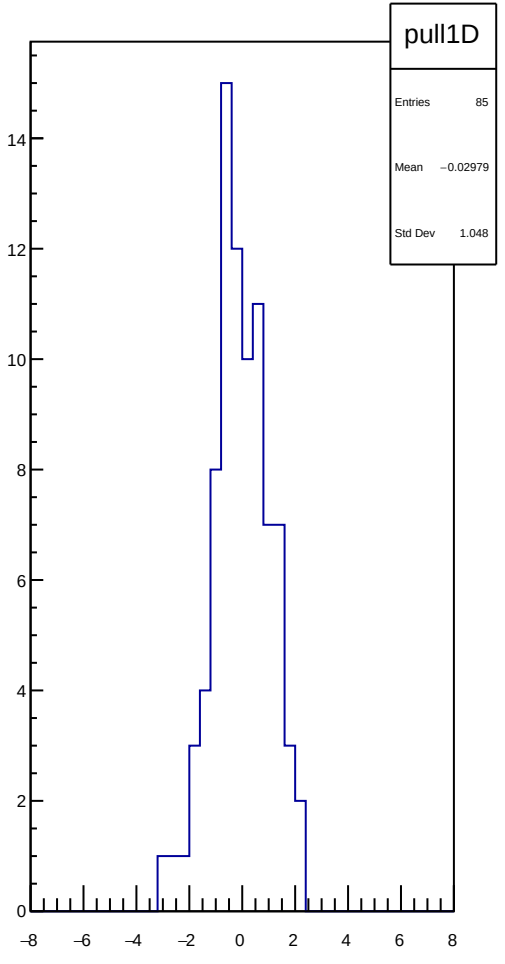

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 6079 / 84
p0 342.8 ± 0.2676
390
380
370
360
350
340
330
320
310
300

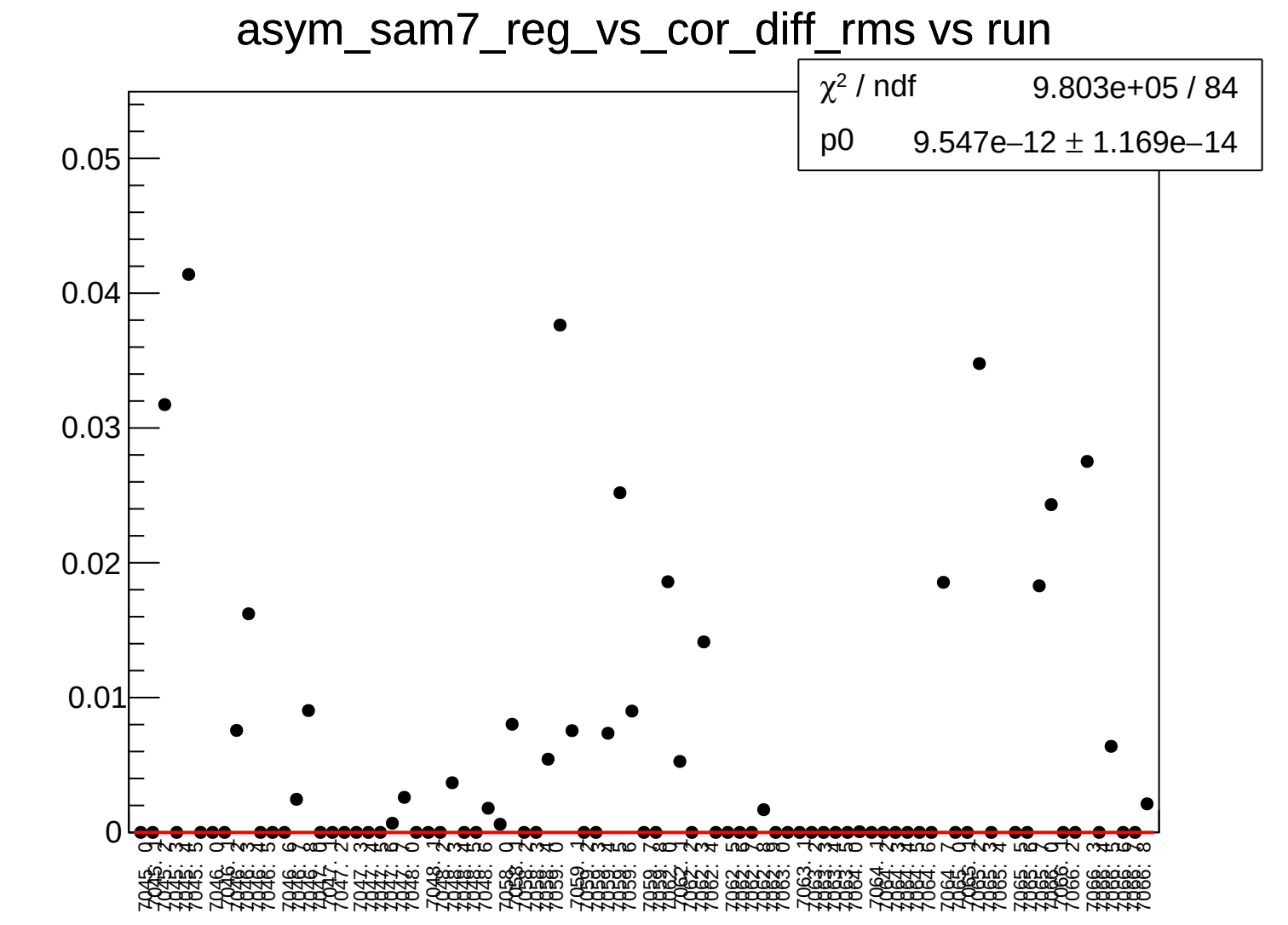

asym_sam7_mean vs run
χ^2 / ndf 56.53 / 84
p0 310.9 ± 380.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −40.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

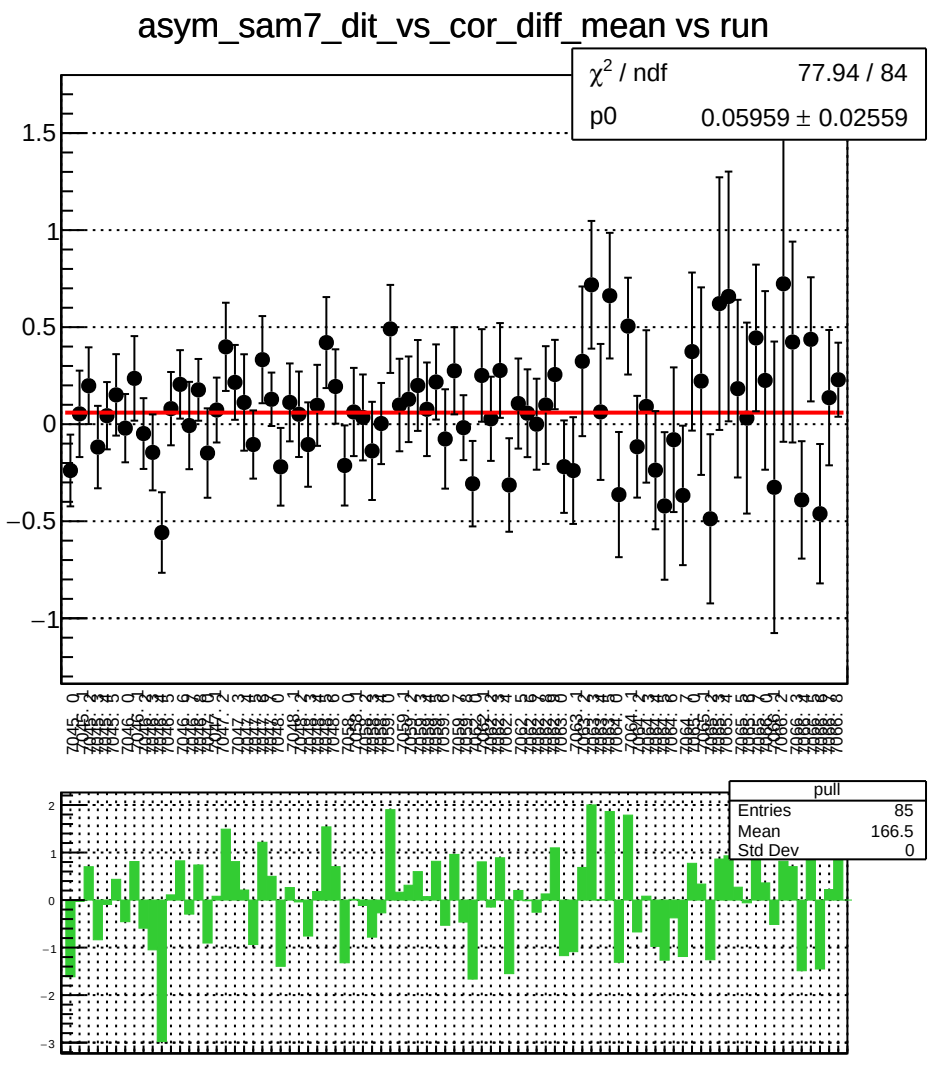

pull1D
Entries 85
Mean −0.01976
Std Dev 0.8153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

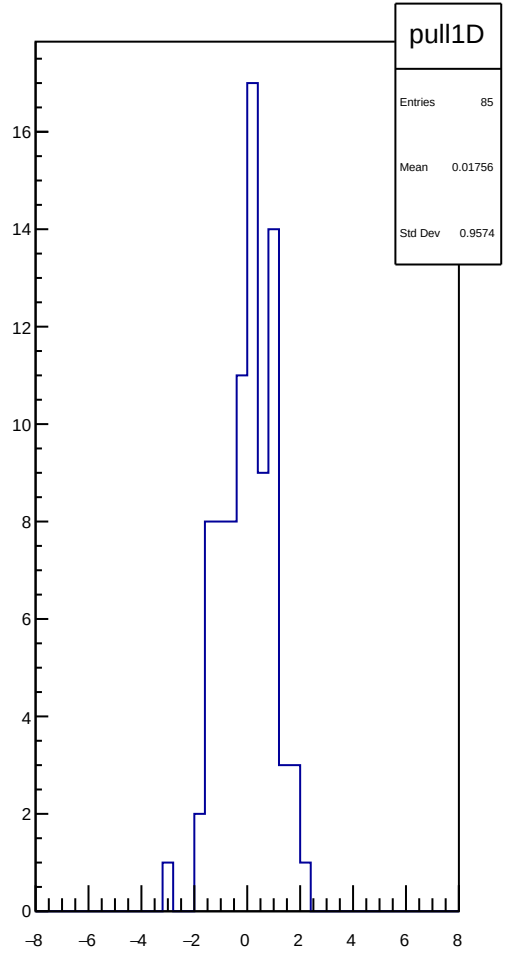

asym_sam7_rms vs run
χ² / ndf 5635 / 84
p0 344.3 ± 0.2688
380
360
340
320
300

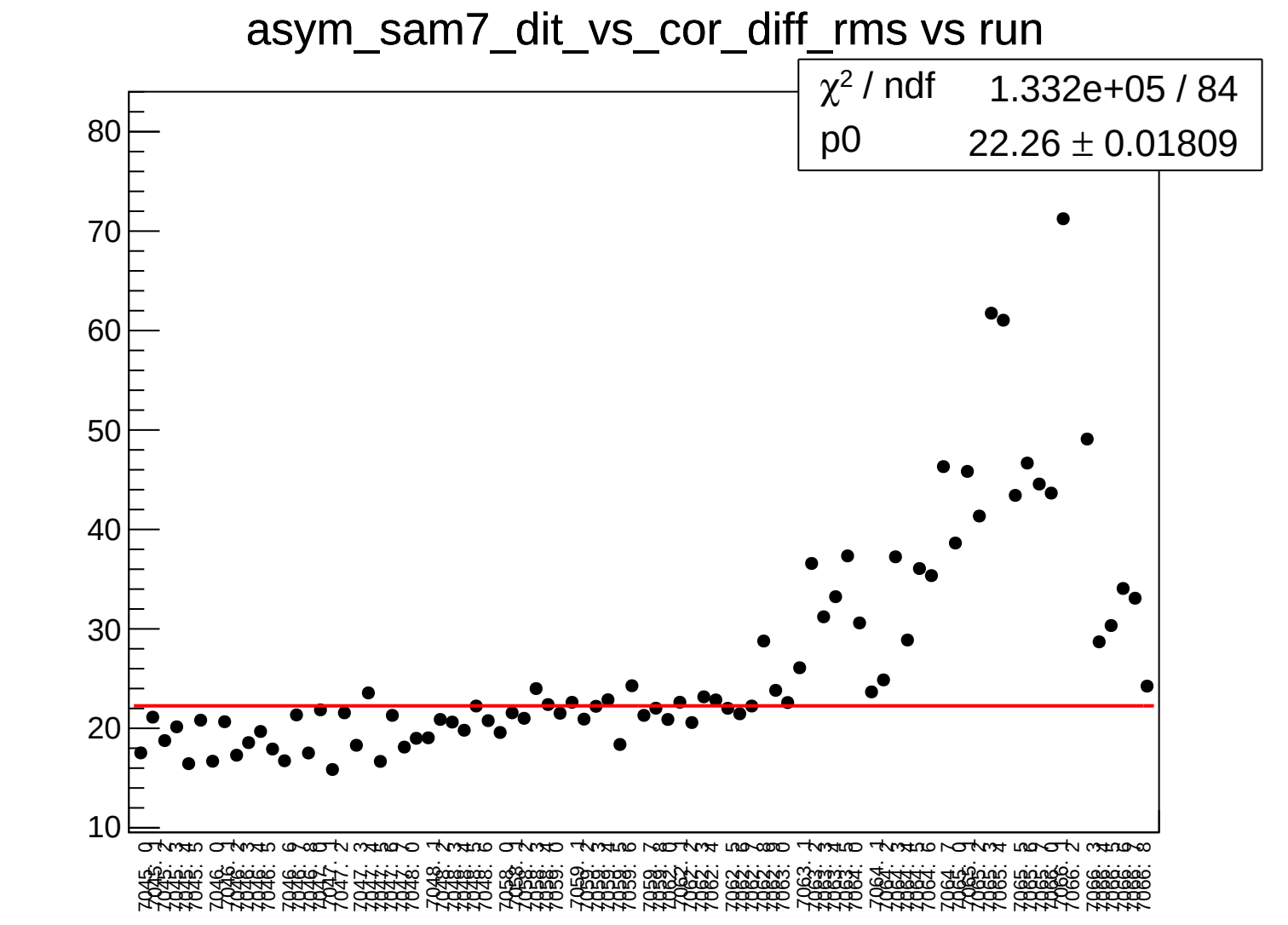

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 93.42 / 84
p0 −1.009e−14 ± 1.653e−14
pull
Entries 85
Mean 31.06
Std Dev 0

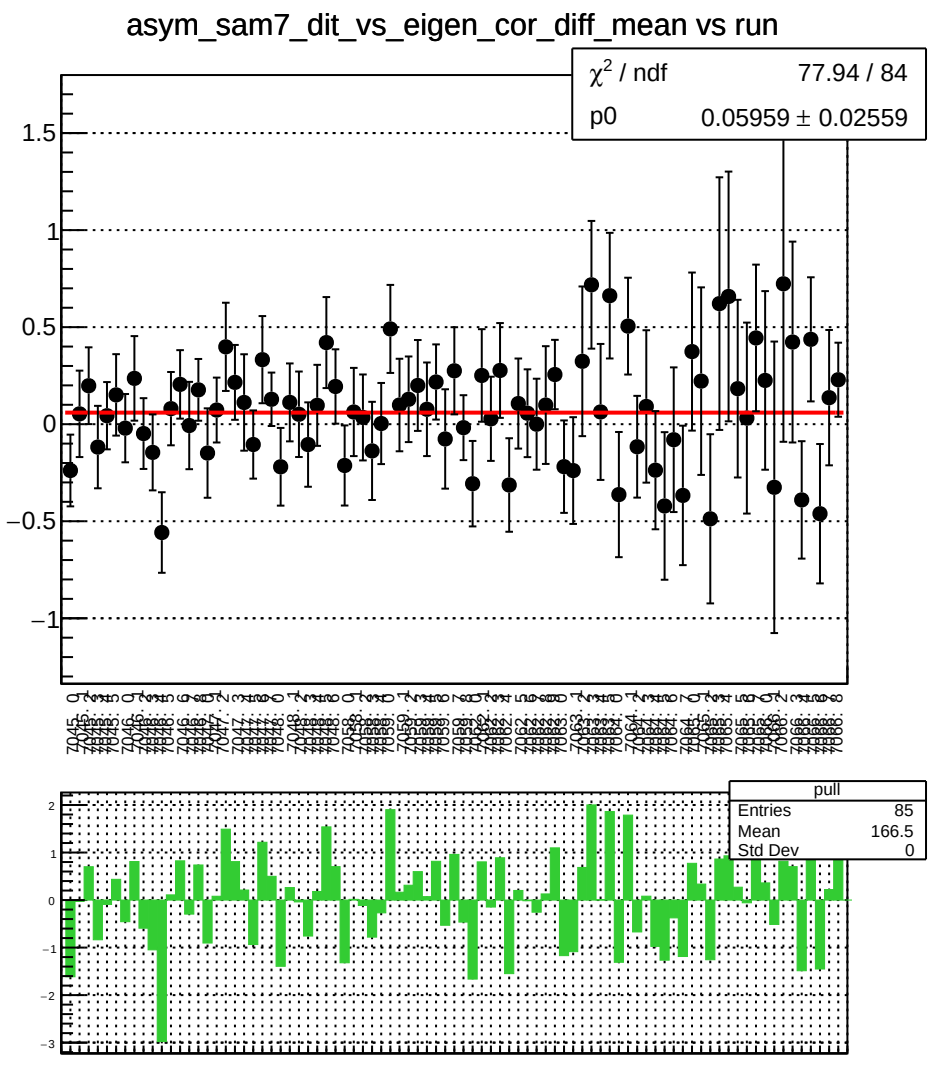

pull1D
Entries 85
Mean −0.02979
Std Dev 1.048

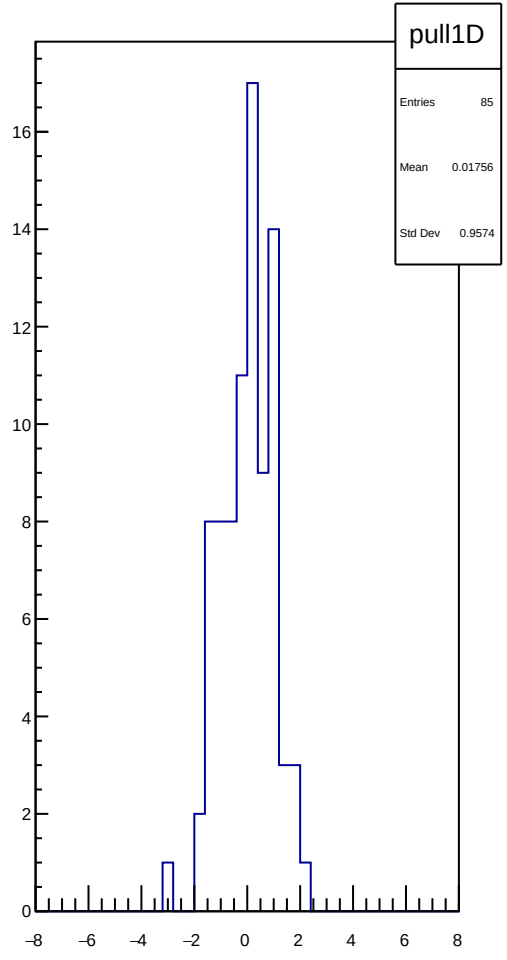

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.803e+05 / 84
p0 9.547e−12 ± 1.169e−14
0.05
0.04
0.03
0.02
0.01
0

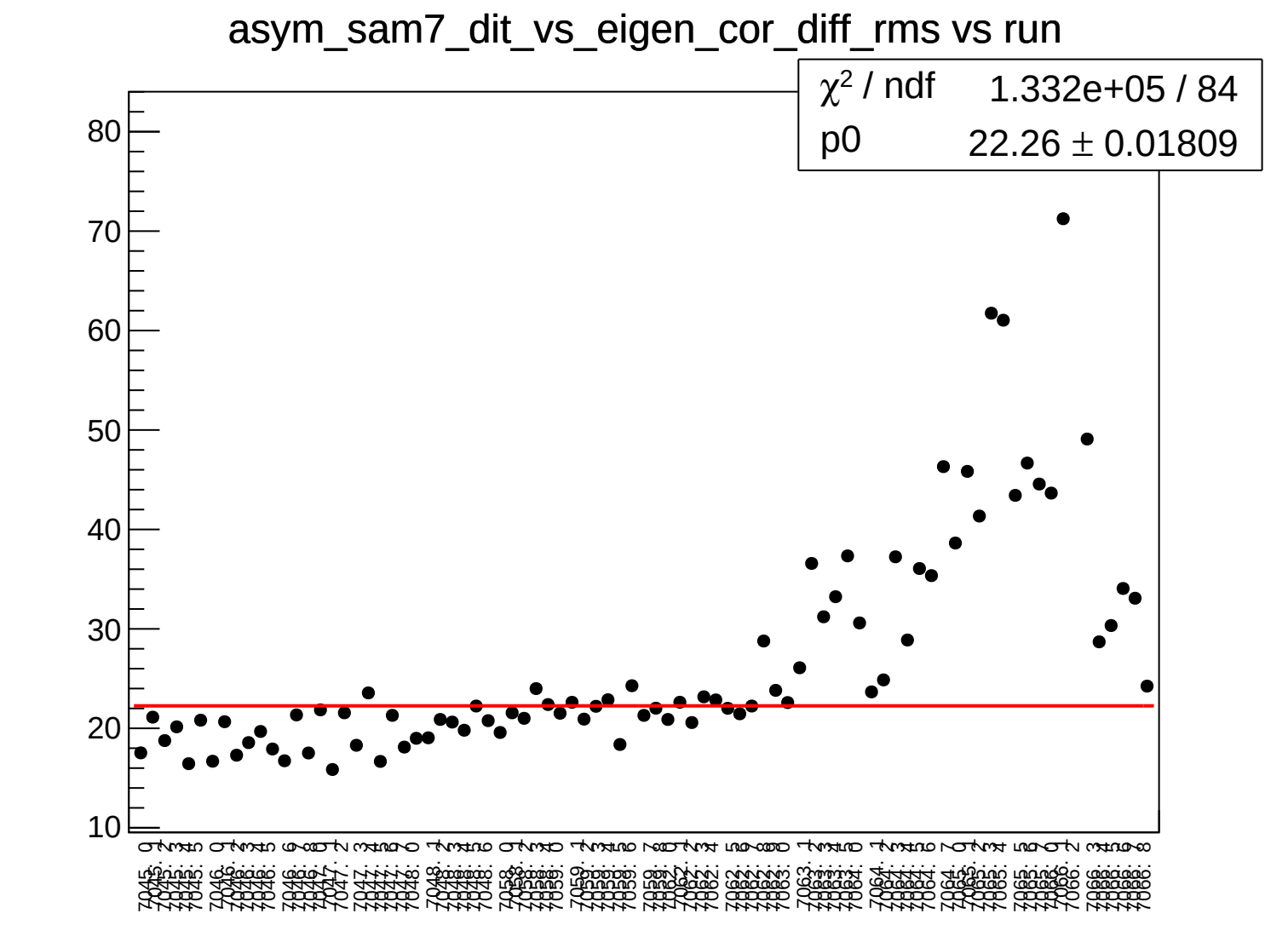

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 77.94 / 84
p0 0.05959 ± 0.02559
pull
Entries 85
Mean 166.5
Std Dev 0

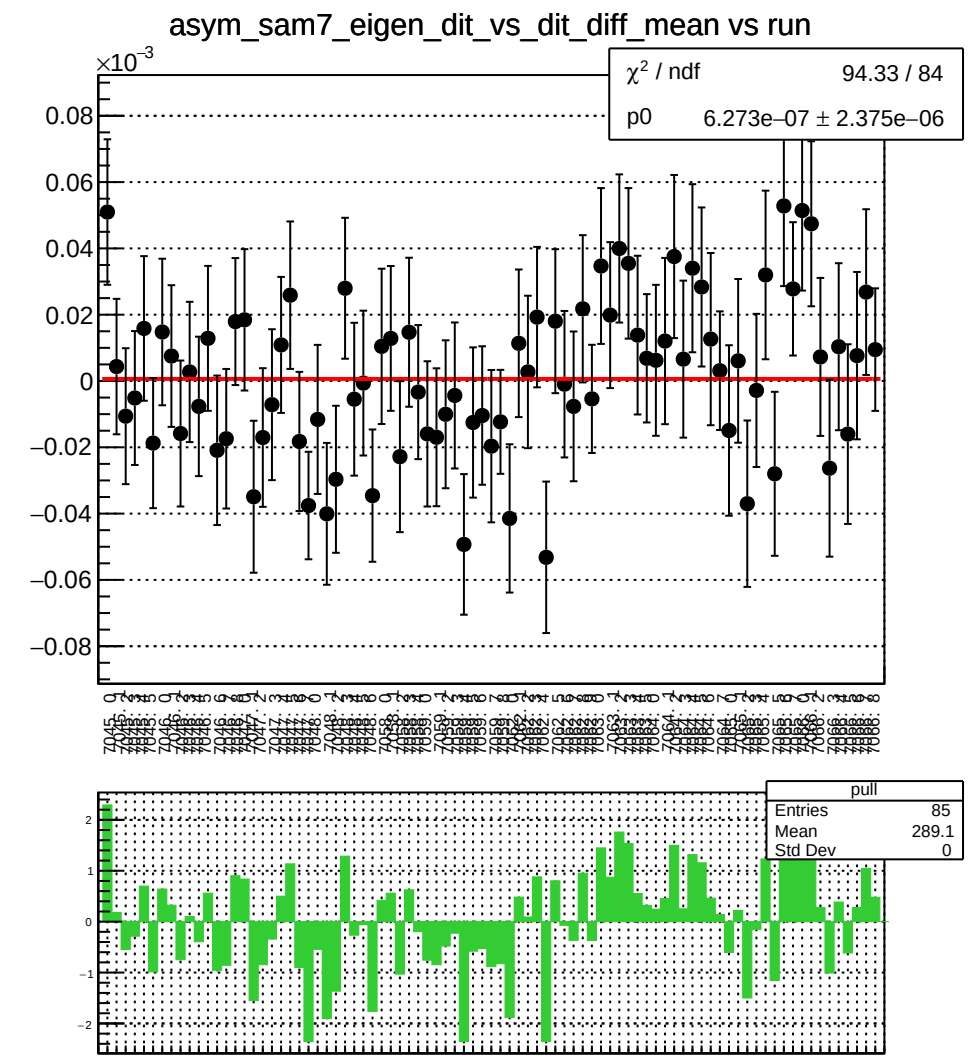

pull1D
Entries 85
Mean 0.01756
Std Dev 0.9574

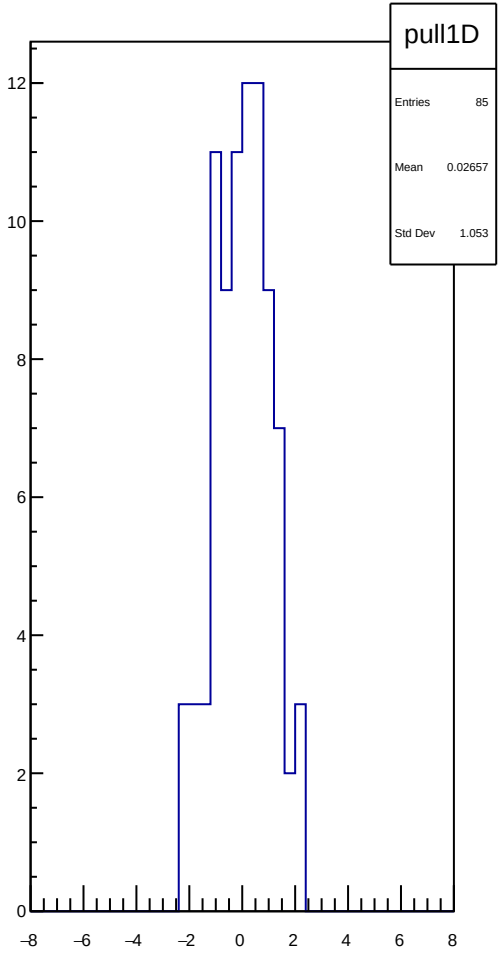

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 84
p0 22.26 ± 0.01809
80
70
60
50
40
30
20
10

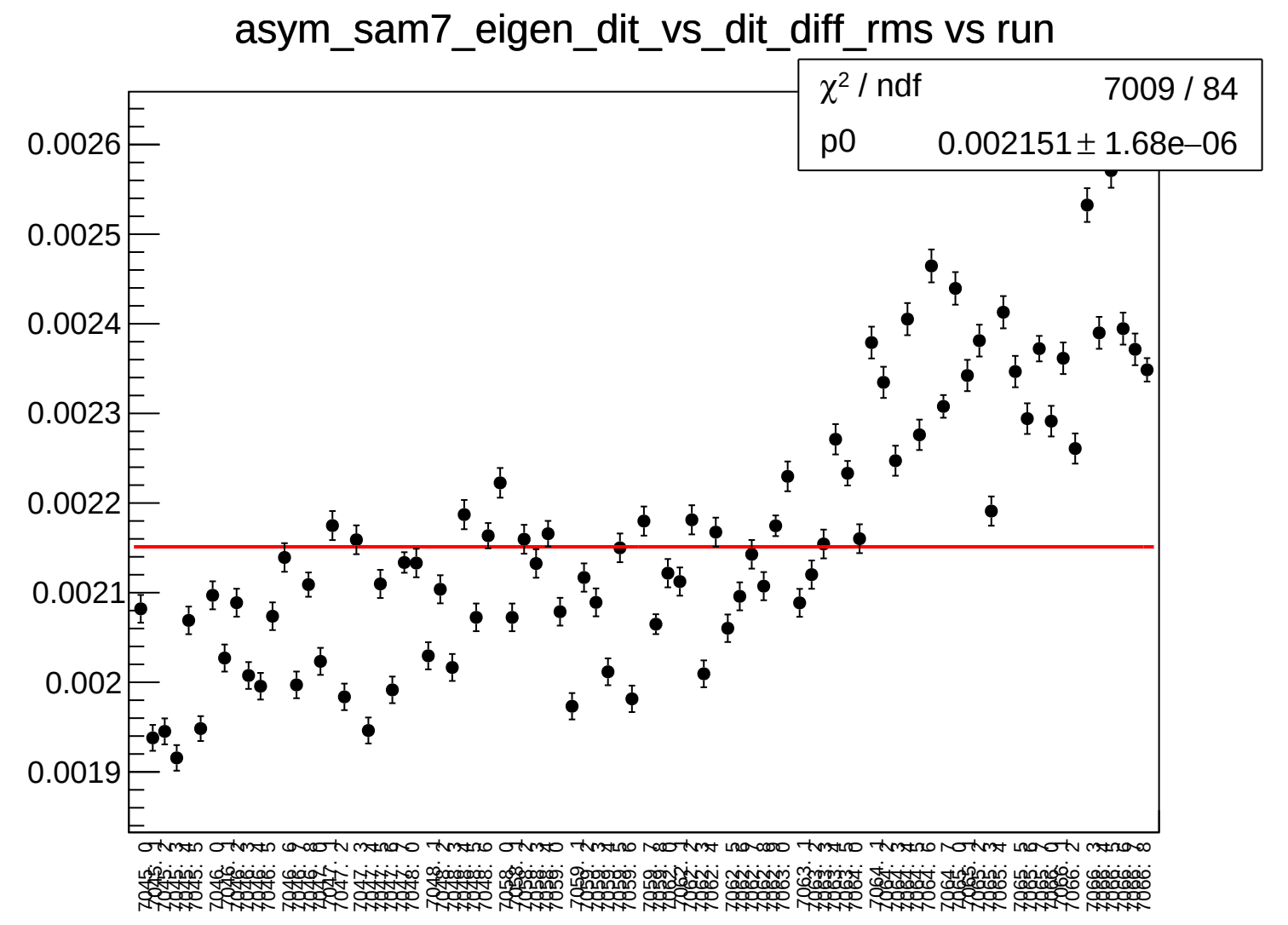

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.94 / 84
p0 0.05959 ± 0.02559
pull
Entries 85
Mean 166.5
Std Dev 0

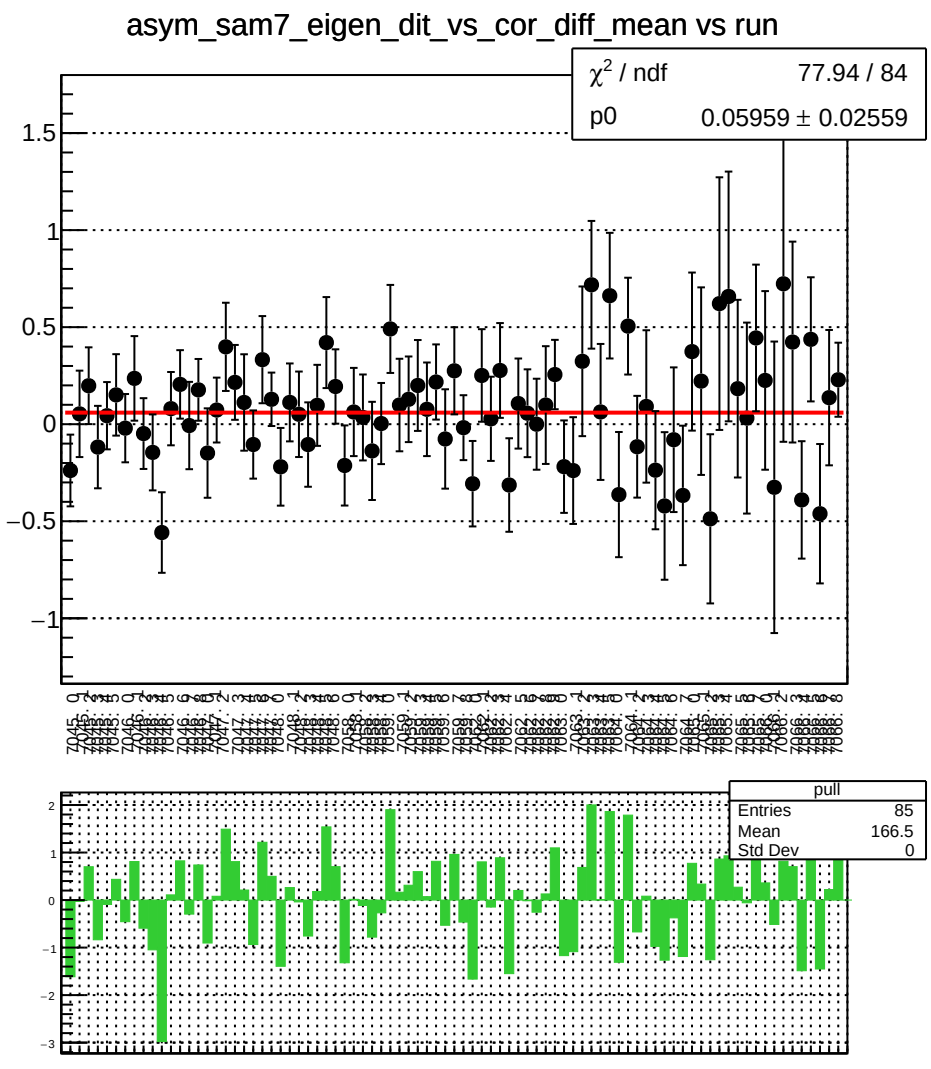

pull1D
Entries 85
Mean 0.01756
Std Dev 0.9574

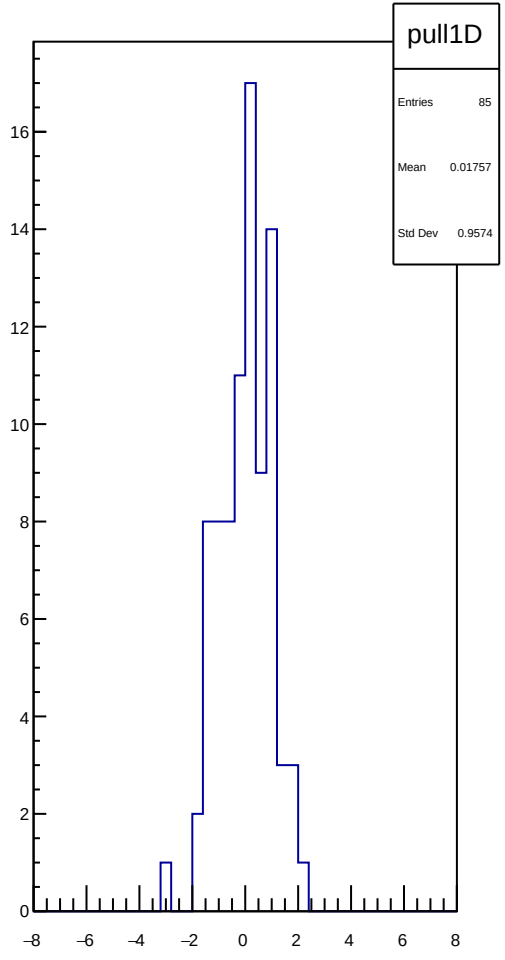

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 84
p0 22.26 ± 0.01809
80
70
60
50
40
30
20
10

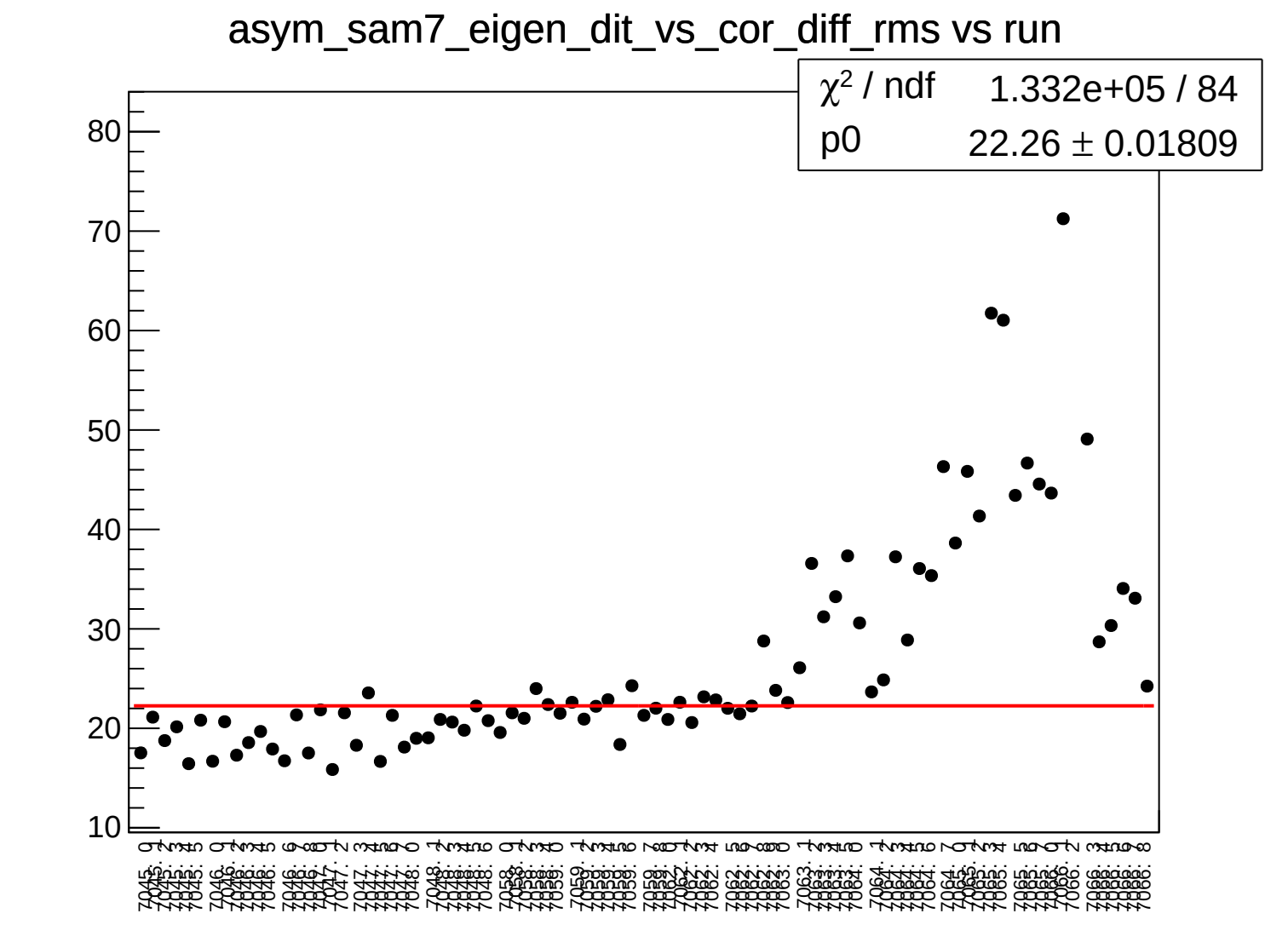

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.33 / 84
p0 6.273e−07 ± 2.375e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 85
Mean 289.1
Std Dev 0
2
1
0
−1
−2

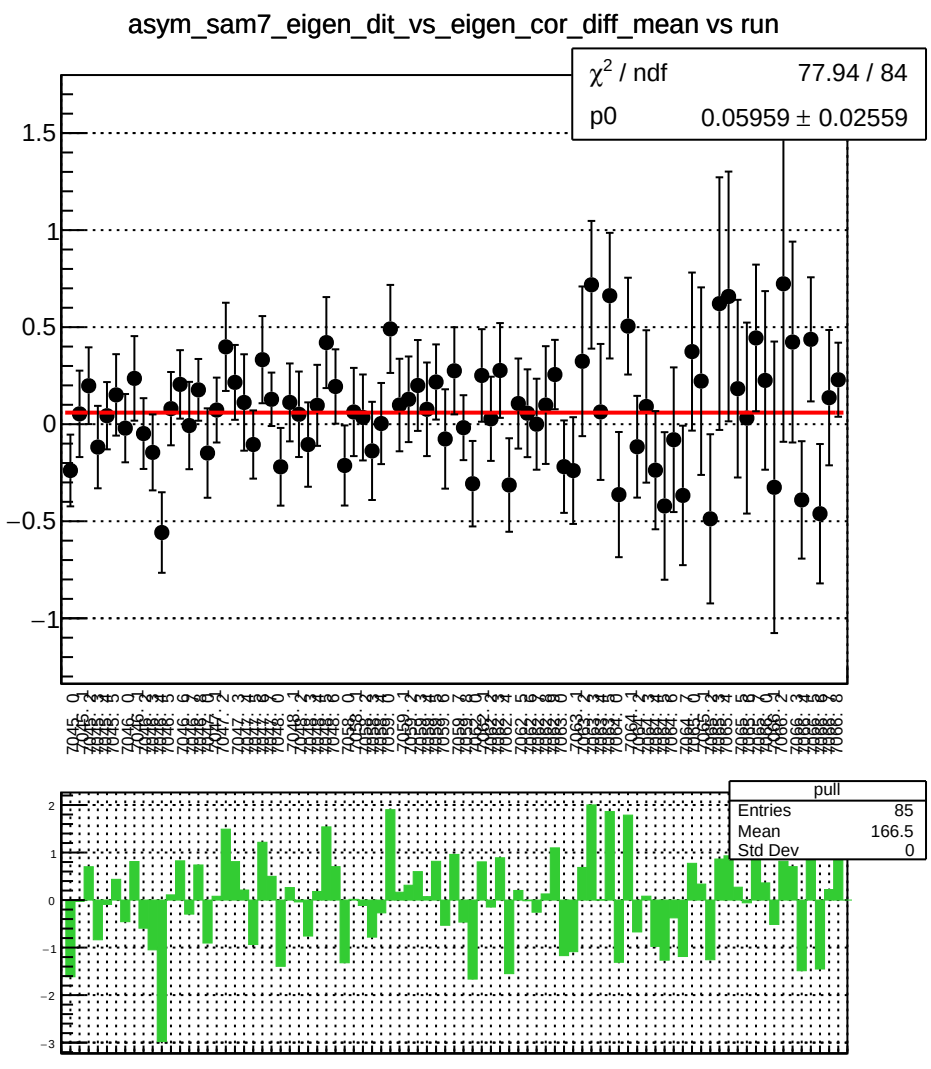

pull1D
Entries 85
Mean 0.02657
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

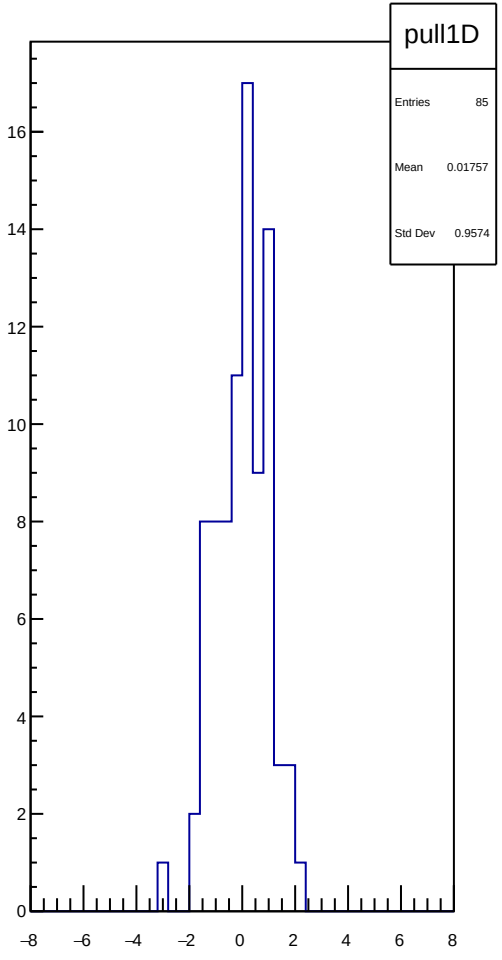

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7009 / 84
p0 0.002151 ± 1.68e–06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

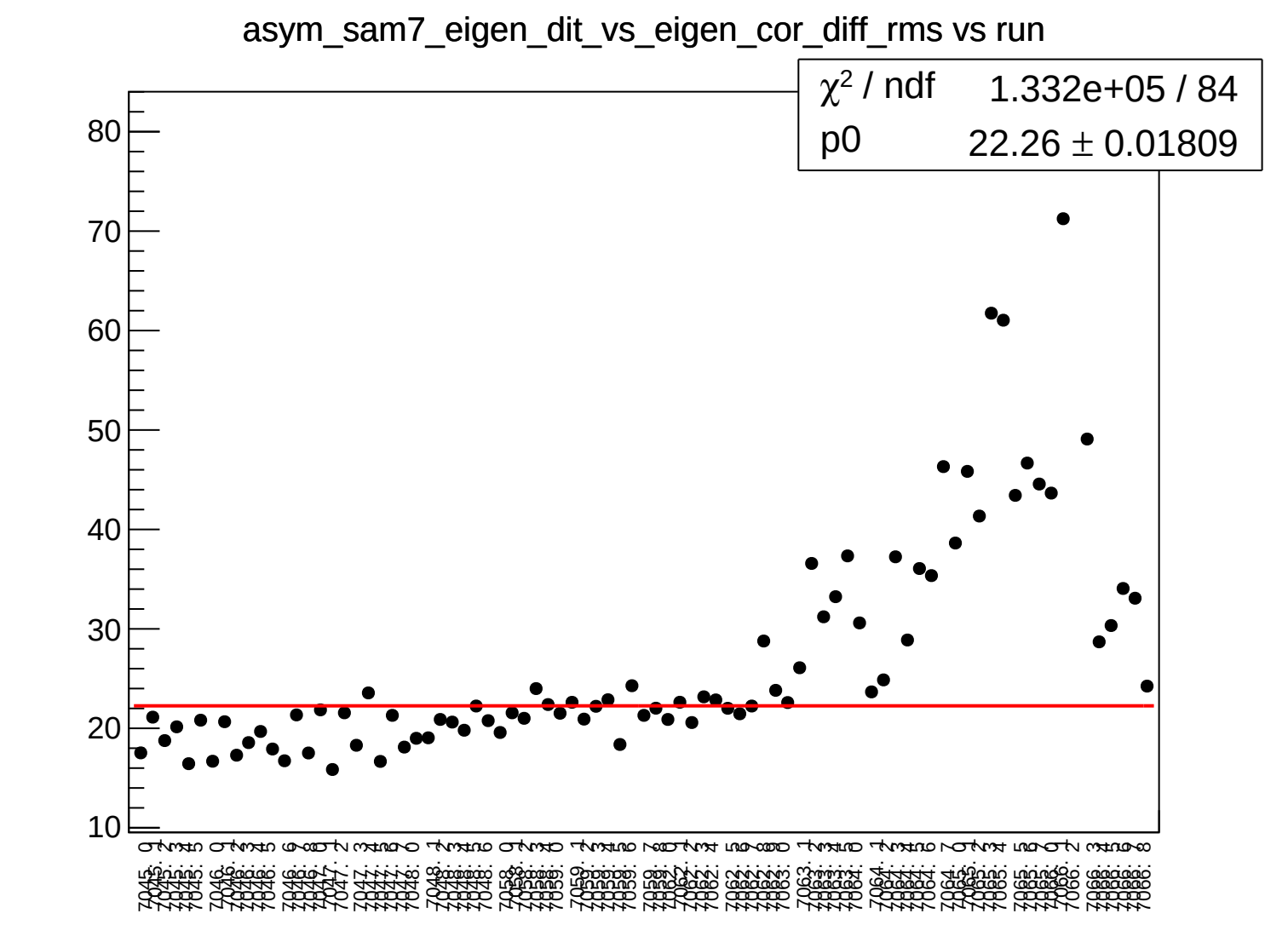

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.94 / 84
p0 0.05959 ± 0.02559
pull
Entries 85
Mean 166.5
Std Dev 0

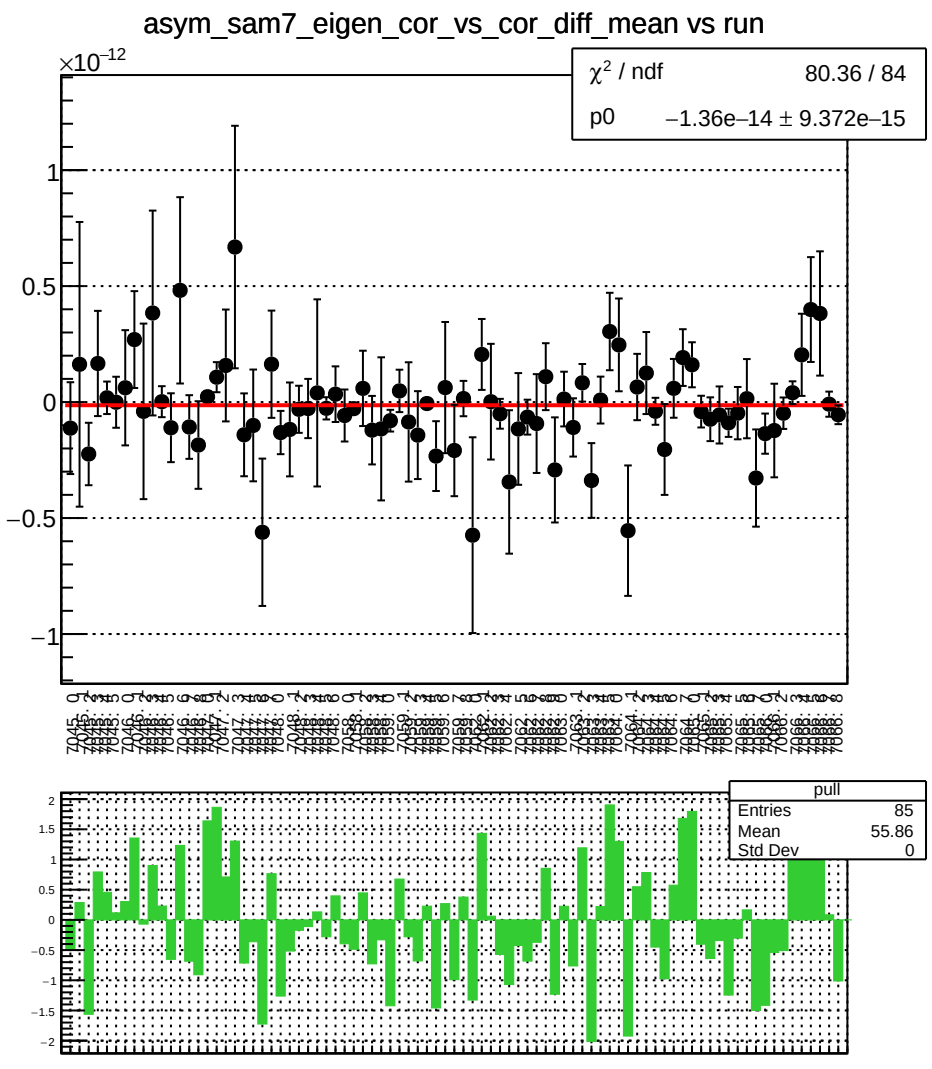

pull1D
Entries 85
Mean 0.01757
Std Dev 0.9574

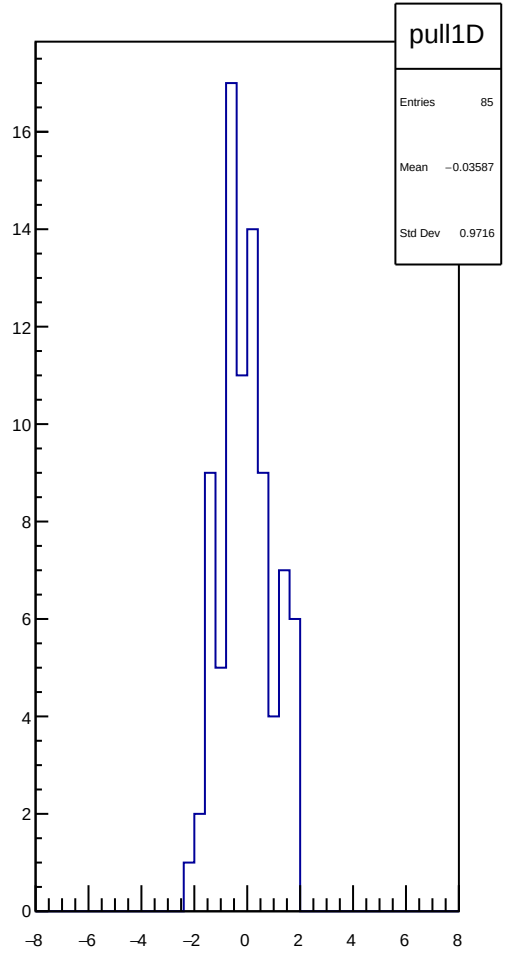

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 84
p0 22.26 ± 0.01809
80
70
60
50
40
30
20
10

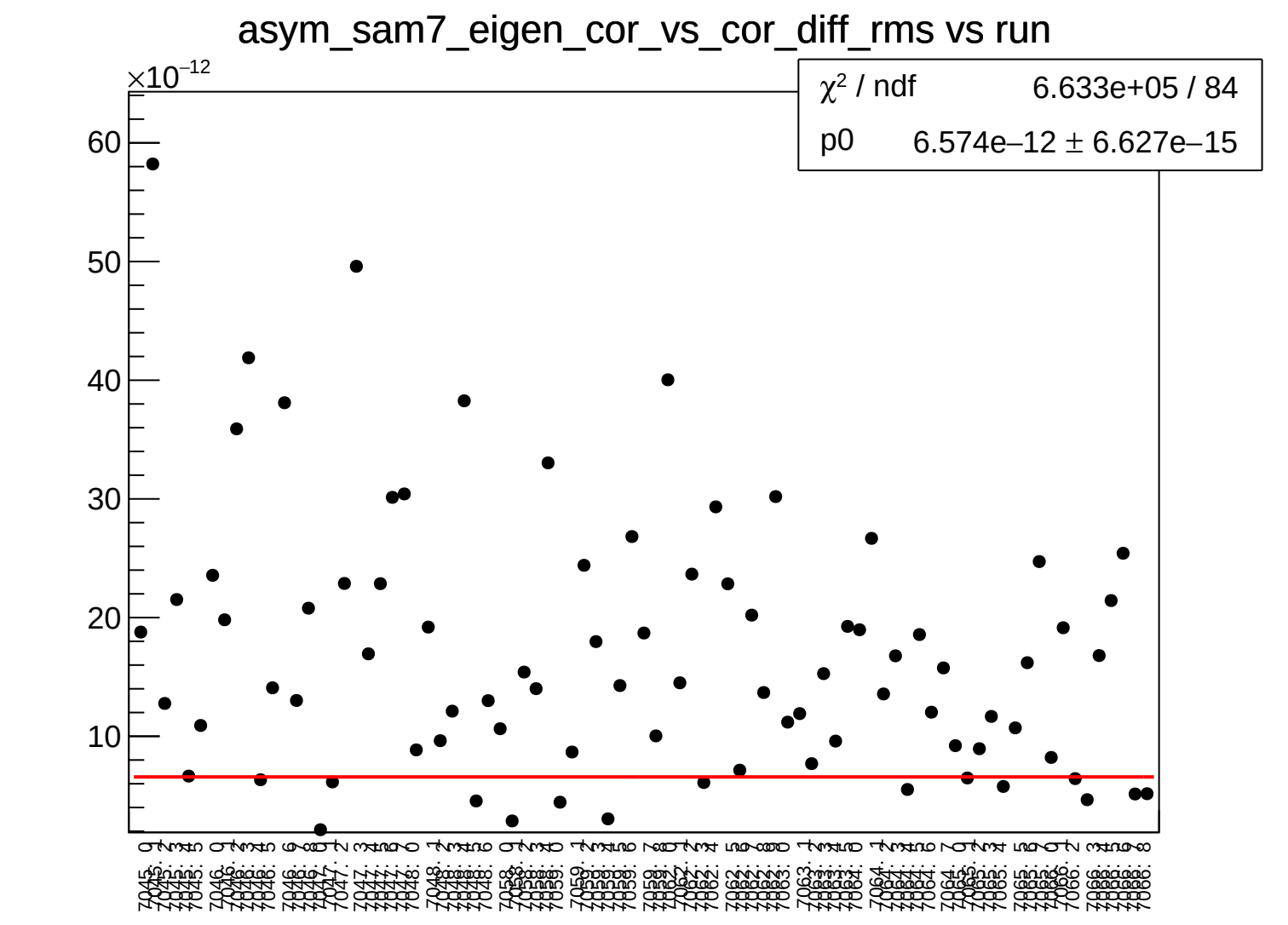

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.94 / 84
p0 0.05959 ± 0.02559
pull
Entries 85
Mean 166.5
Std Dev 0

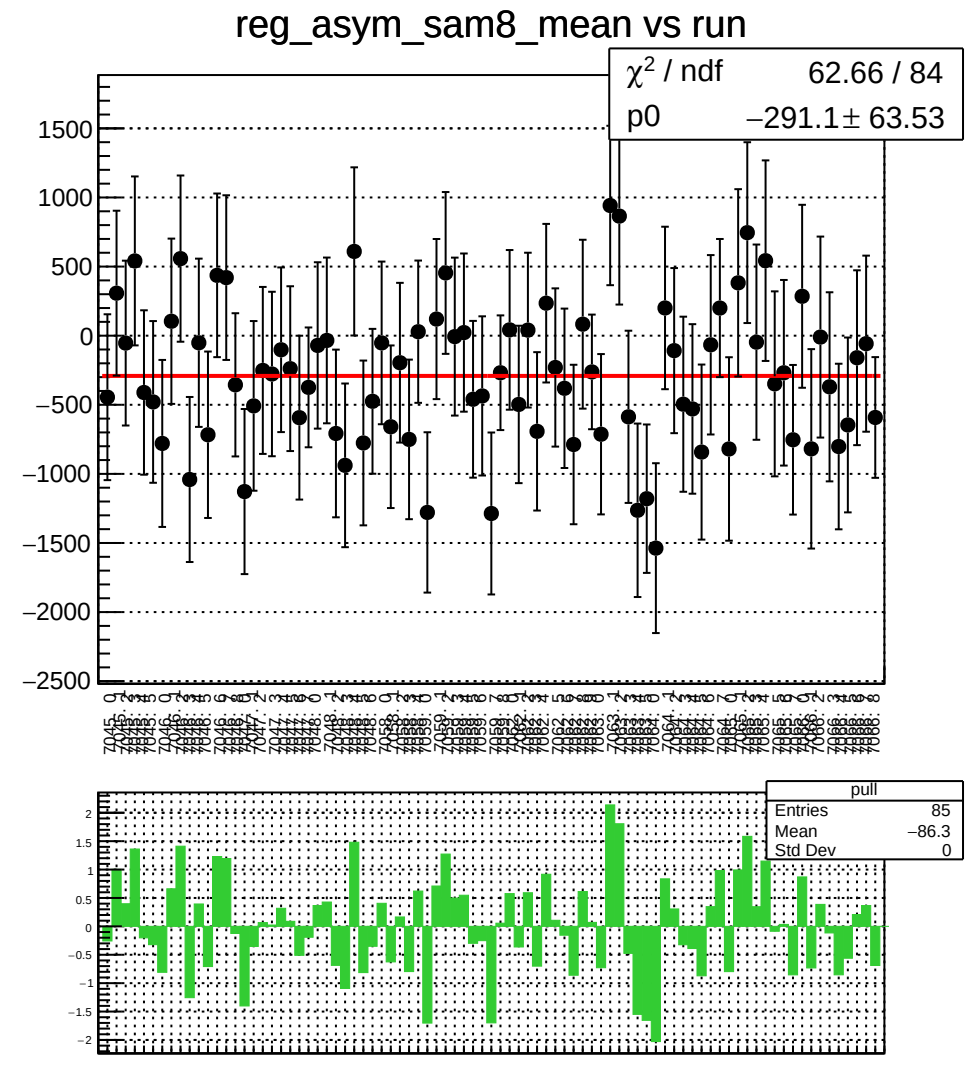

pull1D
Entries 85
Mean 0.01757
Std Dev 0.9574

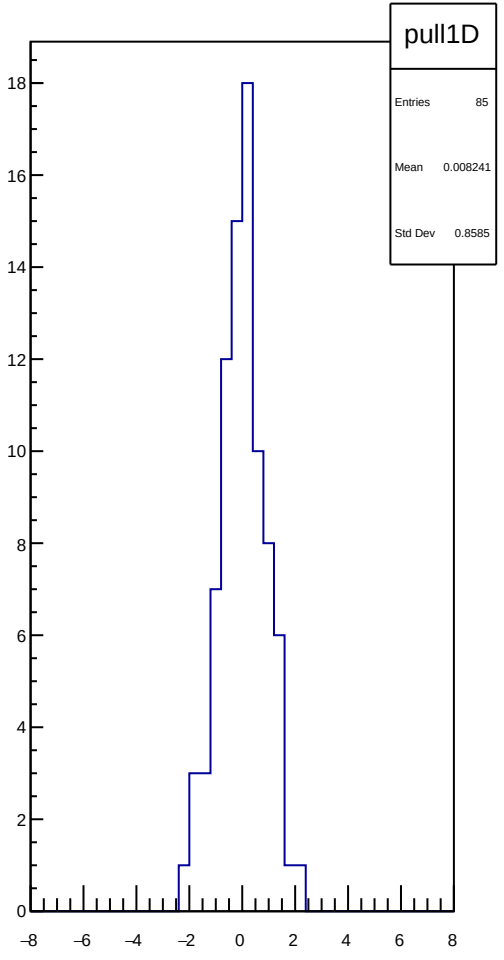

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+05 / 84
p0 22.26 ± 0.01809
80
70
60
50
40
30
20
10

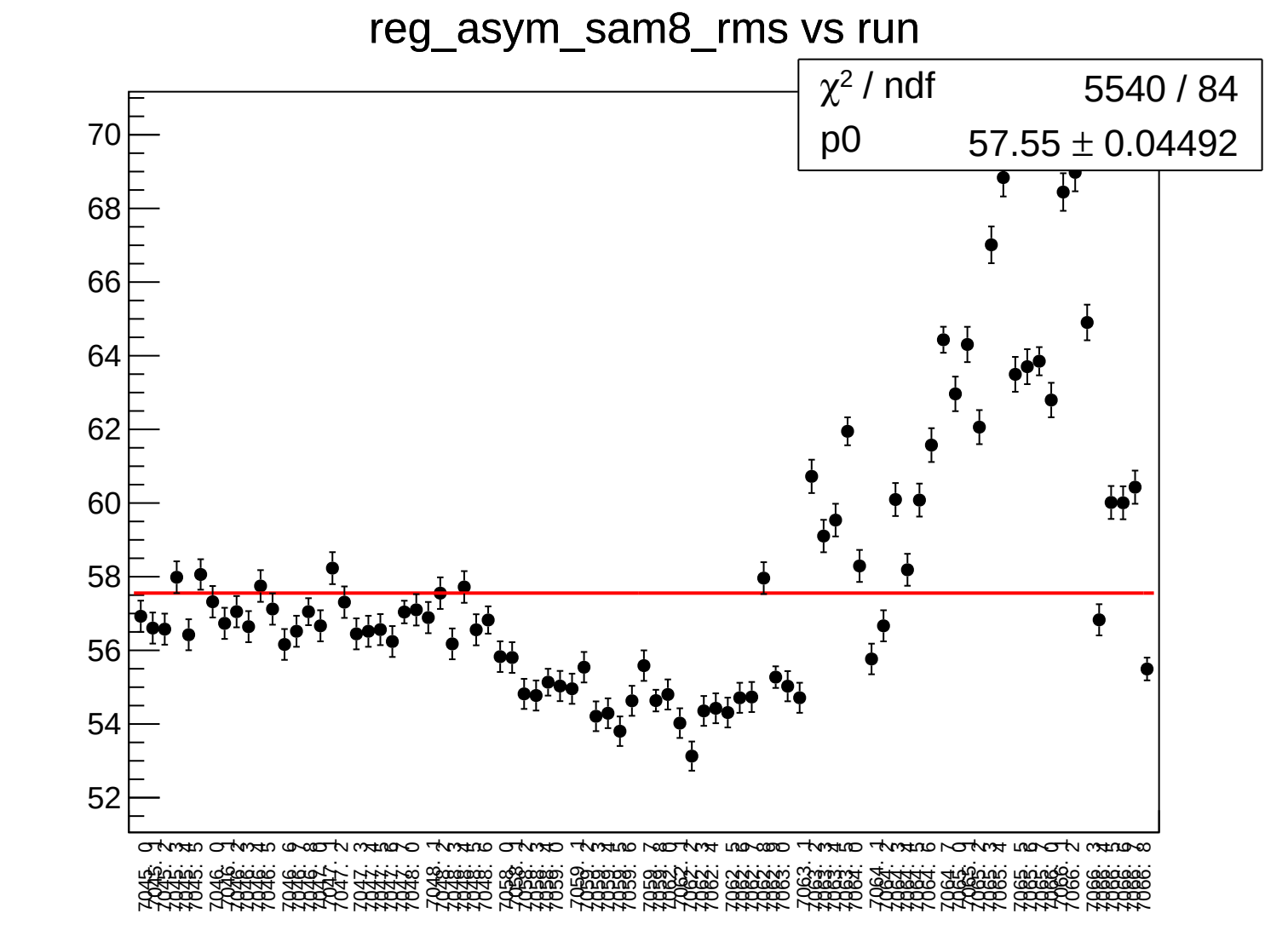

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.36 / 84
p0 −1.36e−14 ± 9.372e−15
pull
Entries 85
Mean 55.86
Std Dev 0

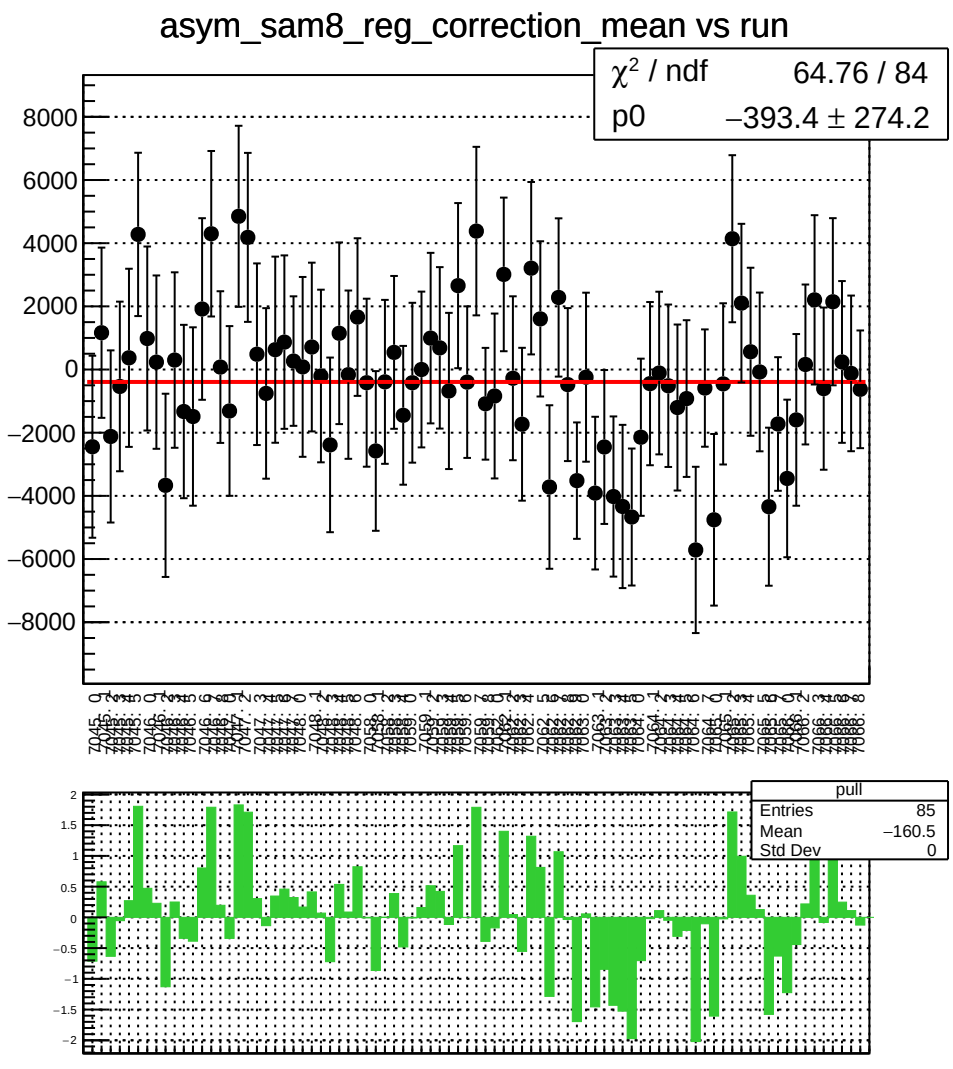

pull1D
Entries 85
Mean −0.03587
Std Dev 0.9716

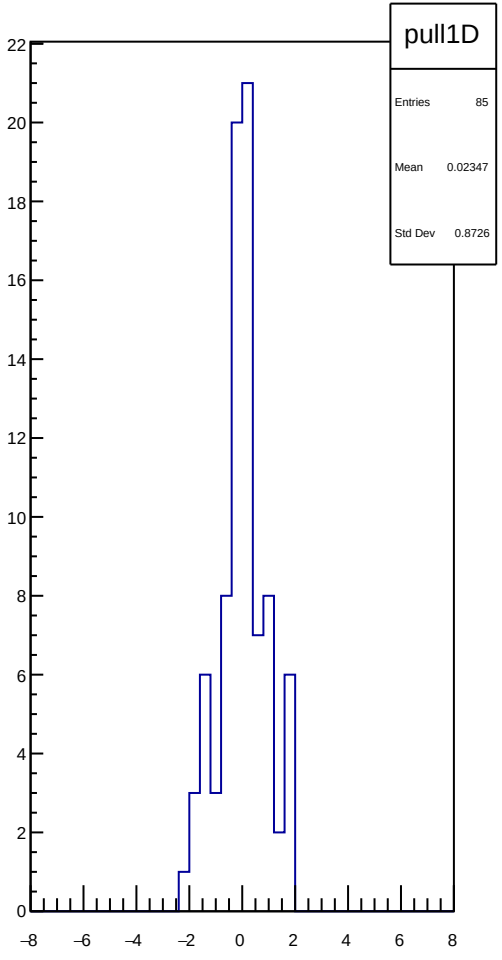

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.633e+05 / 84
p0 6.574e−12 ± 6.627e−15
60
50
40
30
20
10

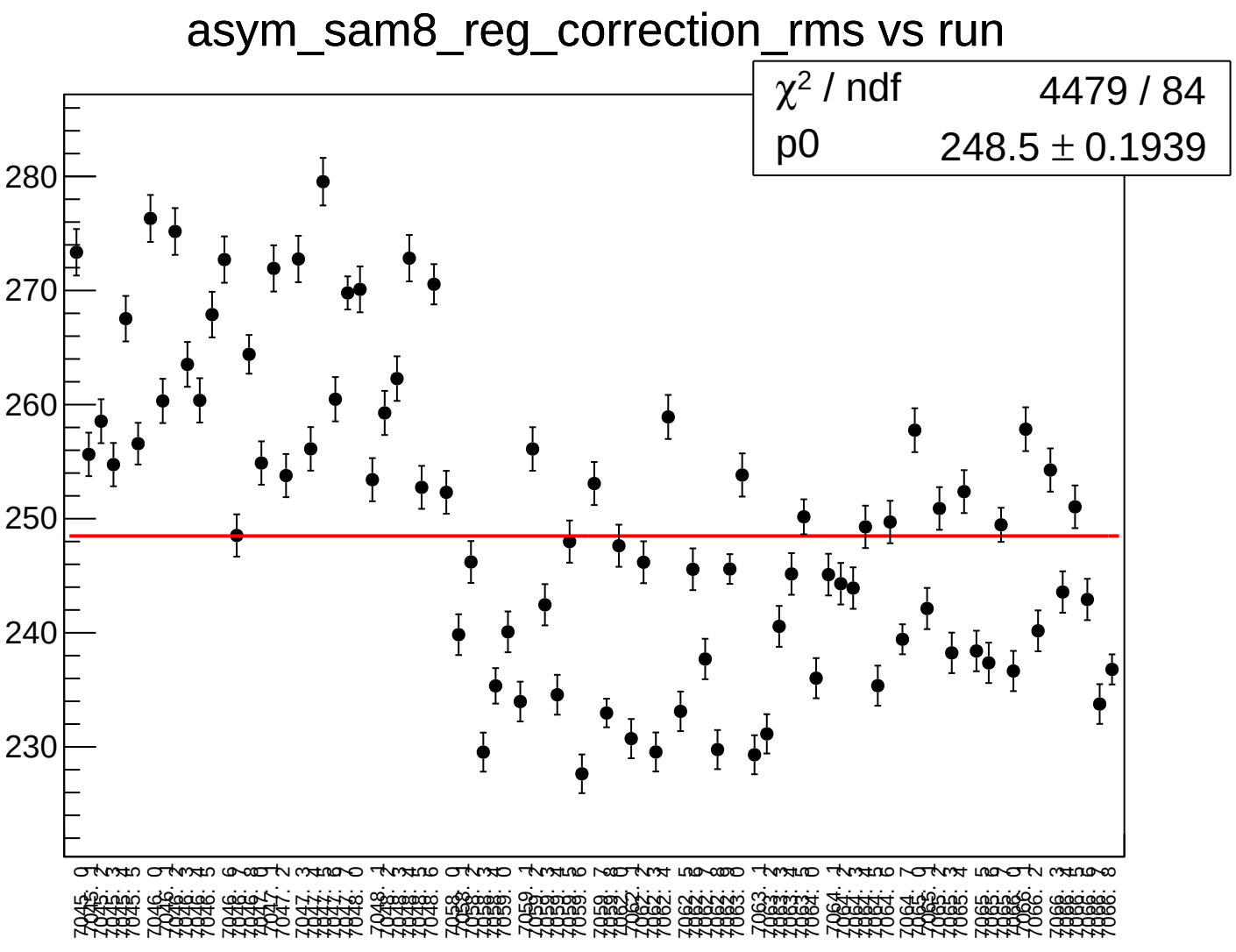

reg_asym_sam8_mean vs run
χ² / ndf 62.66 / 84
p0 −291.1± 63.53
pull
Entries 85
Mean −86.3
Std Dev 0

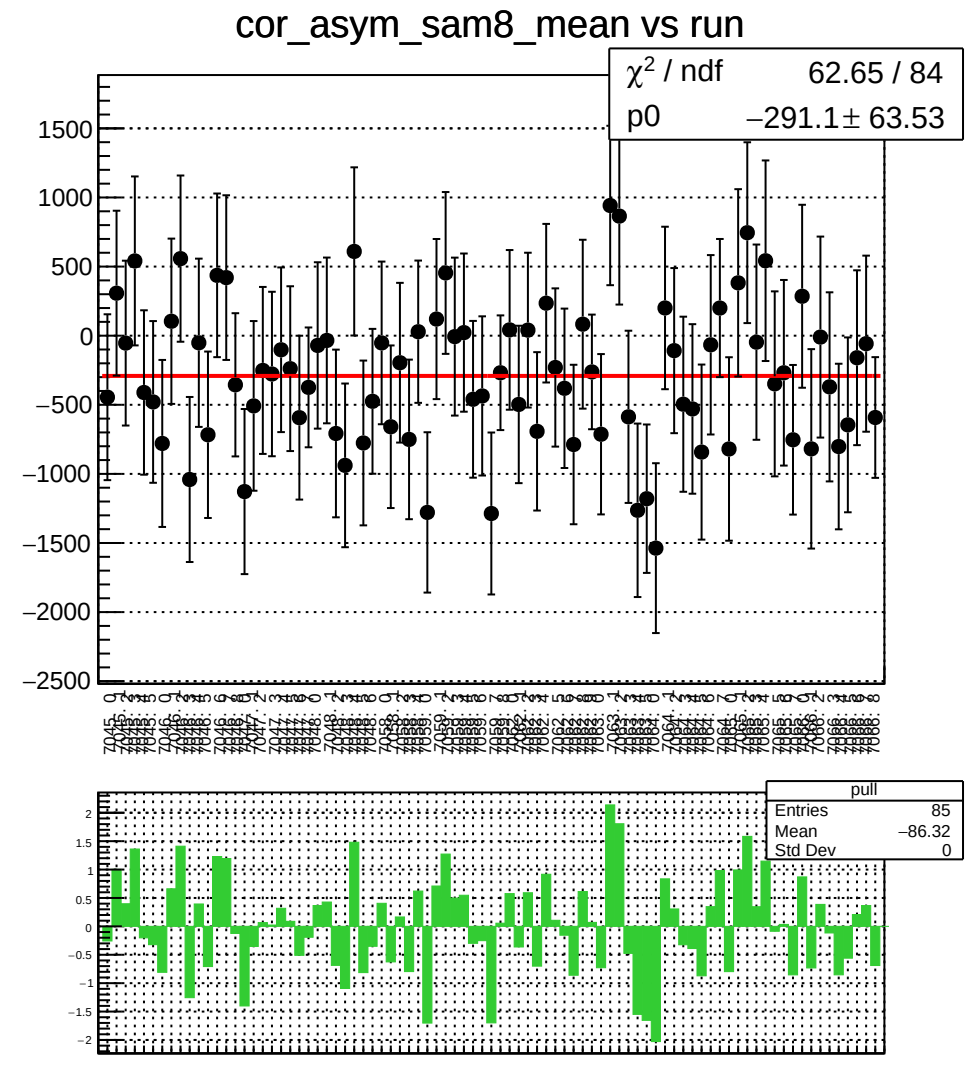

pull1D
Entries 85
Mean 0.008241
Std Dev 0.8585

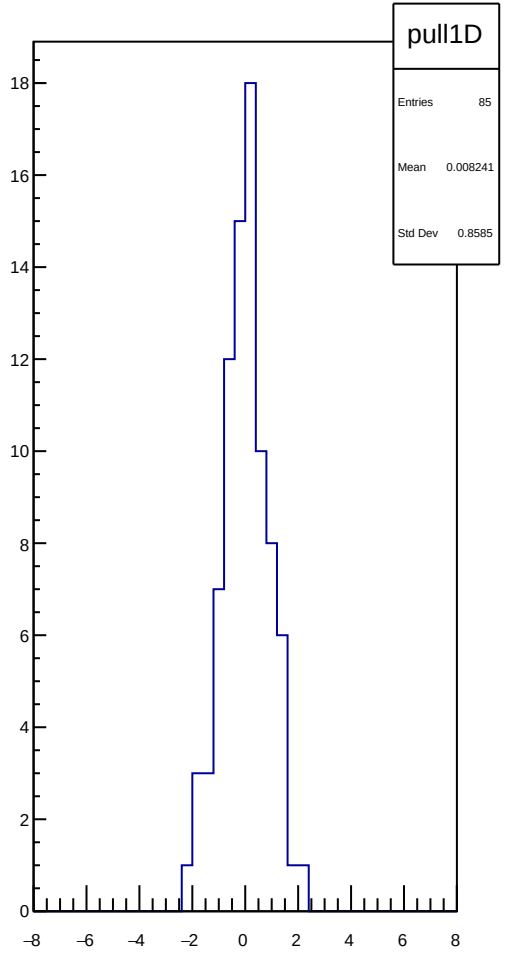

reg_asym_sam8_rms vs run
χ² / ndf 5540 / 84
p0 57.55 ± 0.04492
70
68
66
64
62
60
58
56
54
52

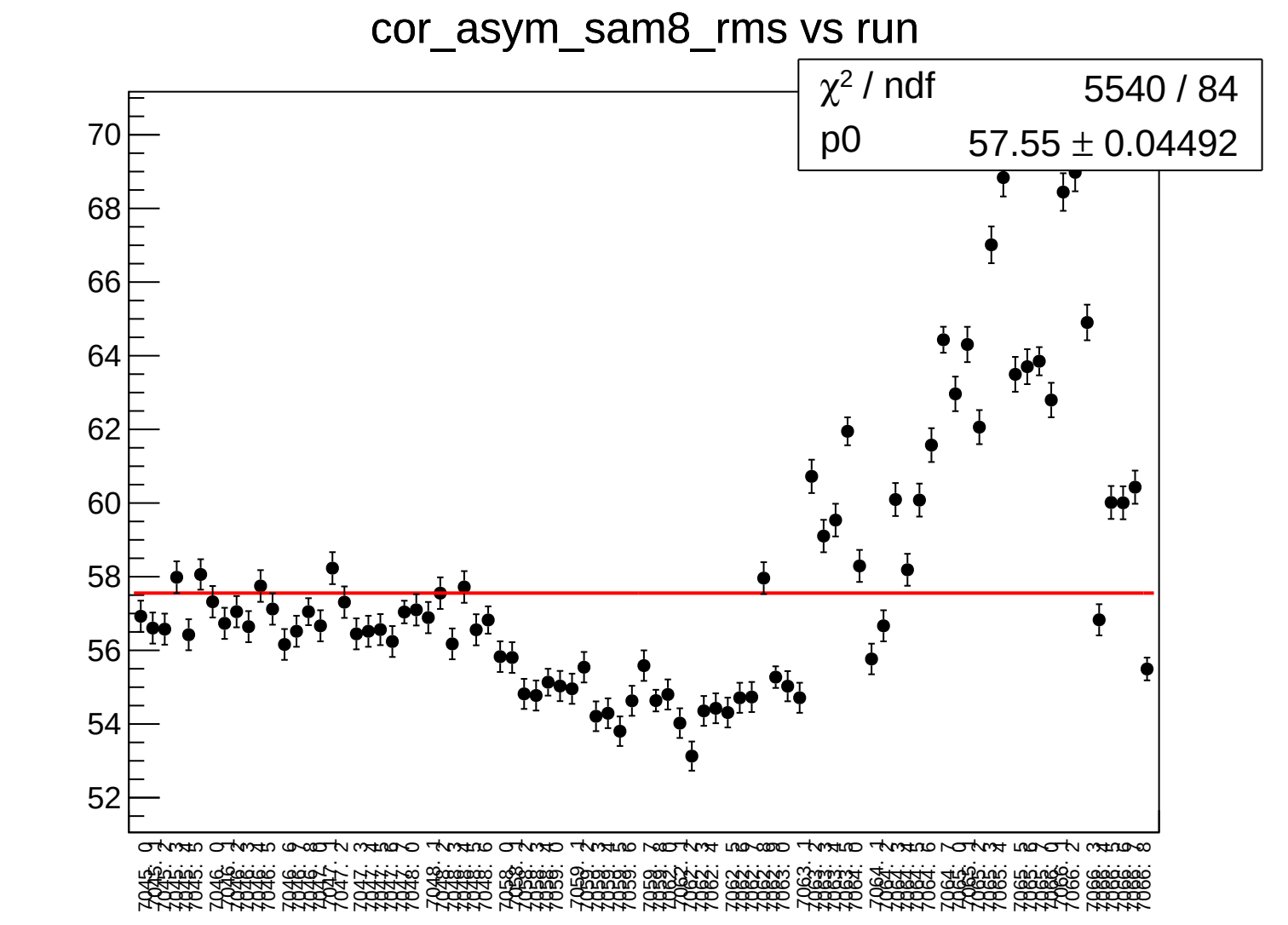

asym_sam8_reg_correction_mean vs run
χ² / ndf 64.76 / 84
p0 −393.4 ± 274.2
pull
Entries 85
Mean −160.5
Std Dev 0

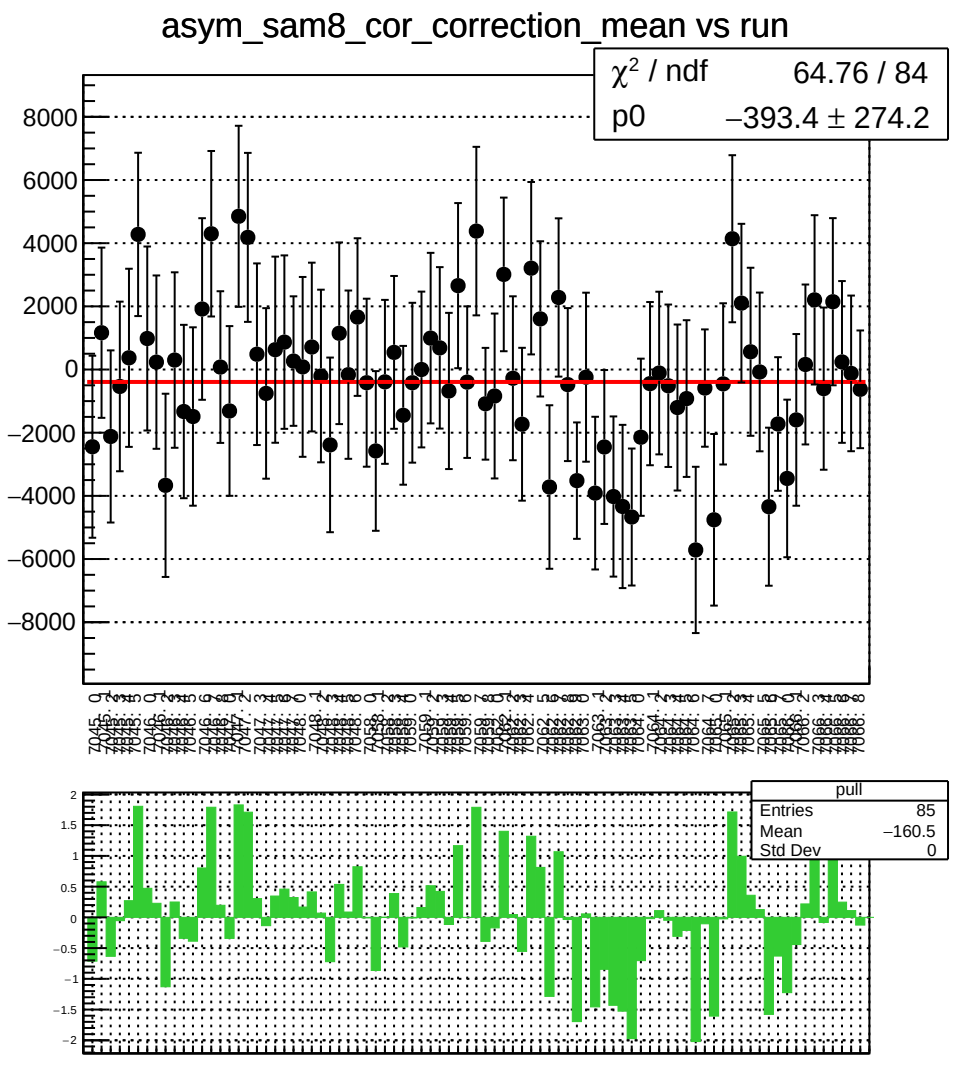

pull1D
Entries 85
Mean 0.02347
Std Dev 0.8726

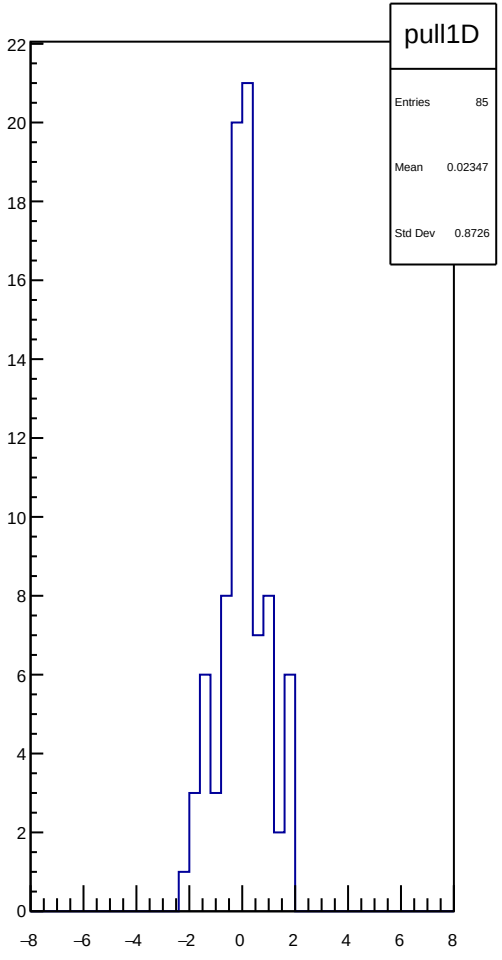

asym_sam8_reg_correction_rms vs run
χ² / ndf 4479 / 84
p0 248.5 ± 0.1939
280
270
260
250
240
230

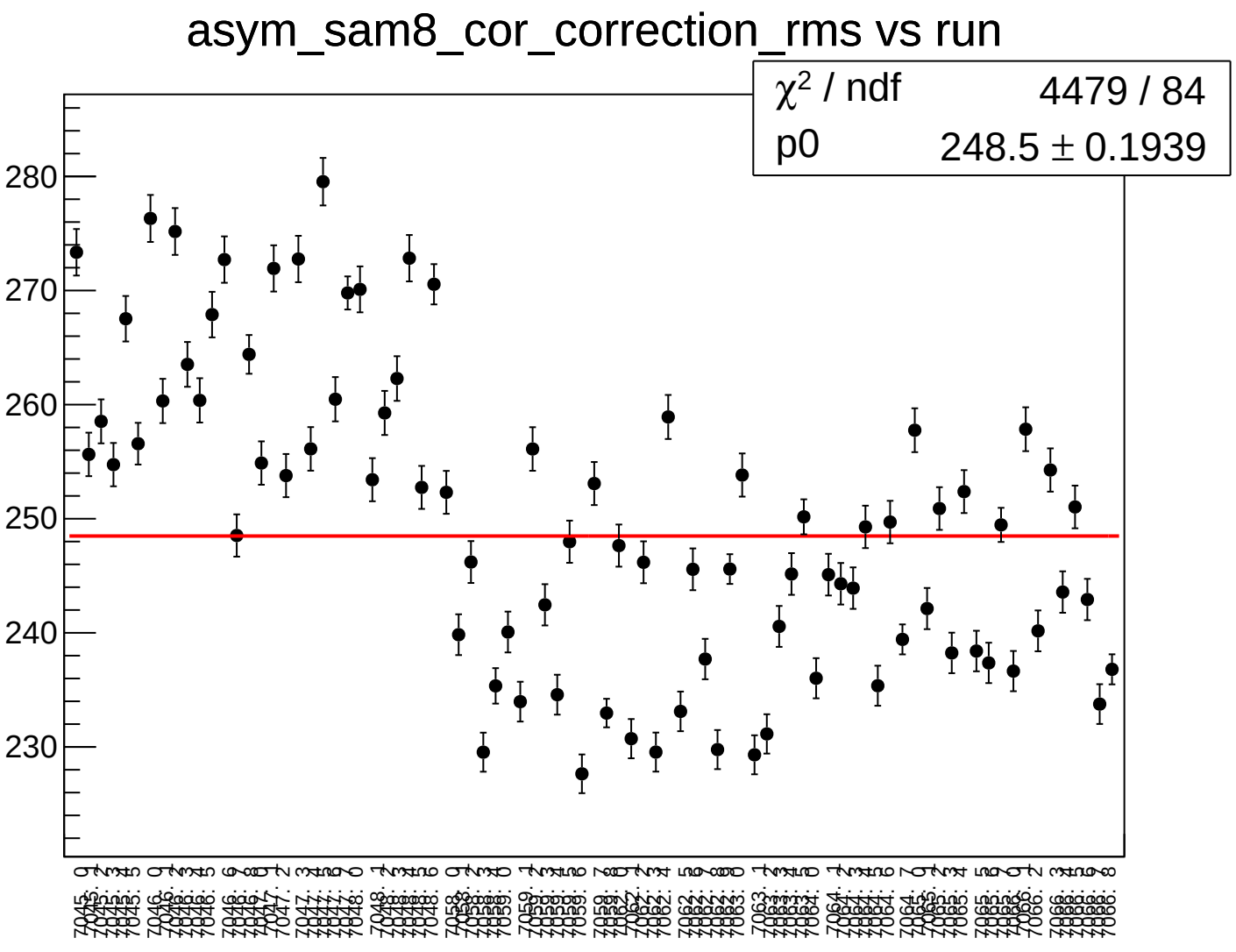

cor_asym_sam8_mean vs run
χ² / ndf 62.65 / 84
p0 −291.1± 63.53
pull
Entries 85
Mean −86.32
Std Dev 0

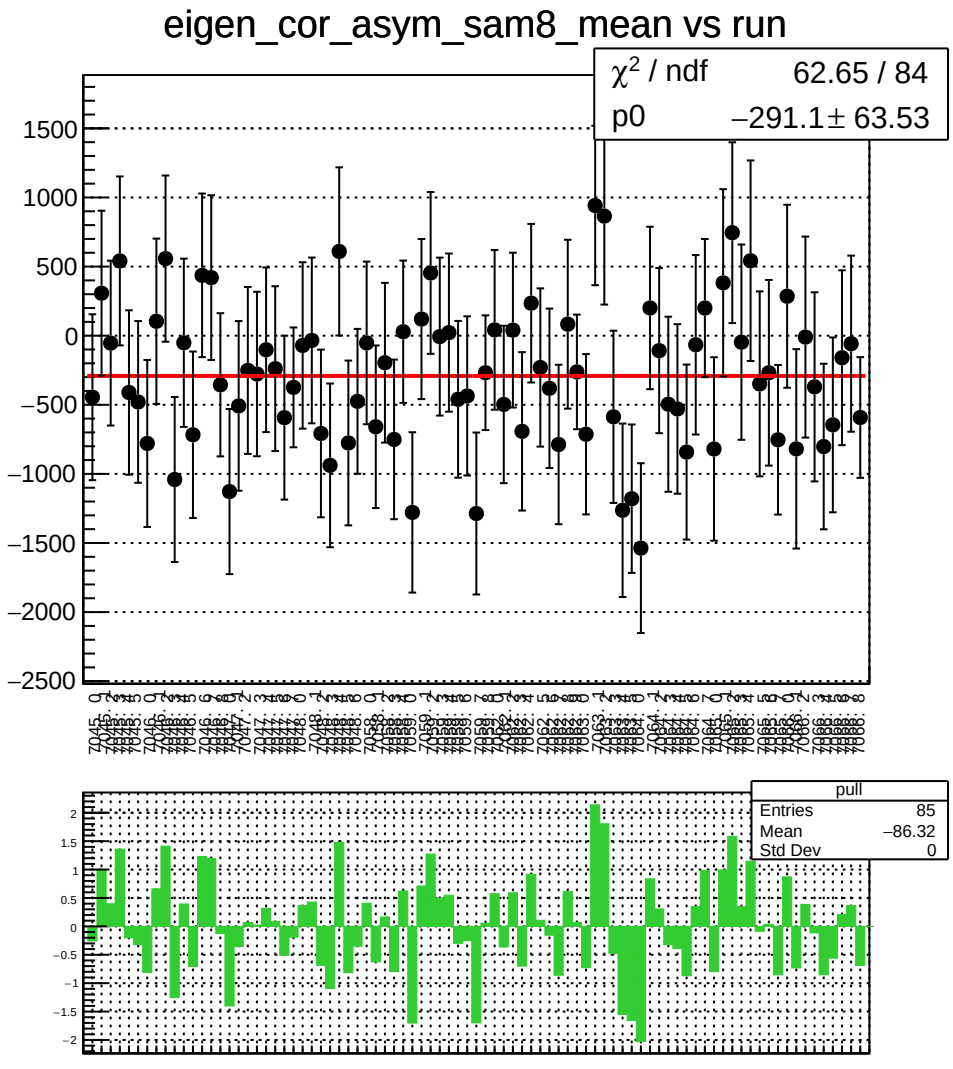

pull1D
Entries 85
Mean 0.008241
Std Dev 0.8585

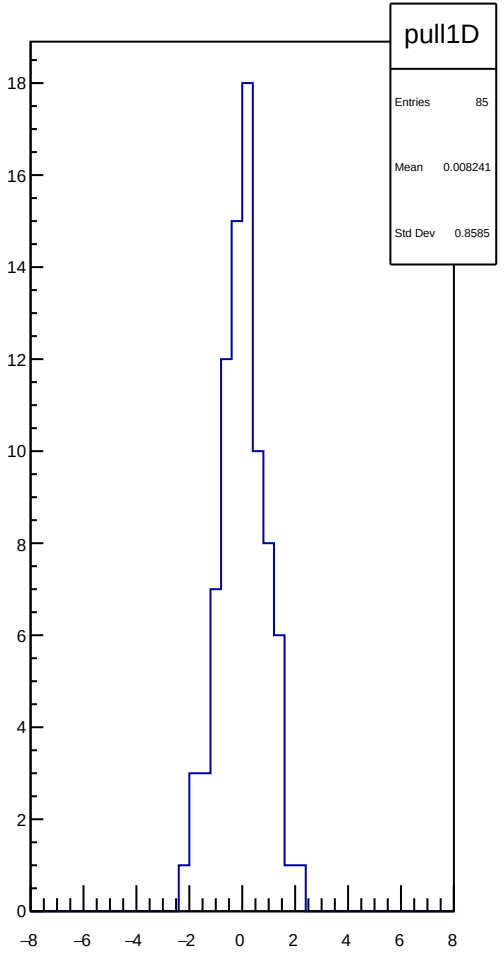

cor_asym_sam8_rms vs run
χ² / ndf 5540 / 84
p0 57.55 ± 0.04492
70
68
66
64
62
60
58
56
54
52

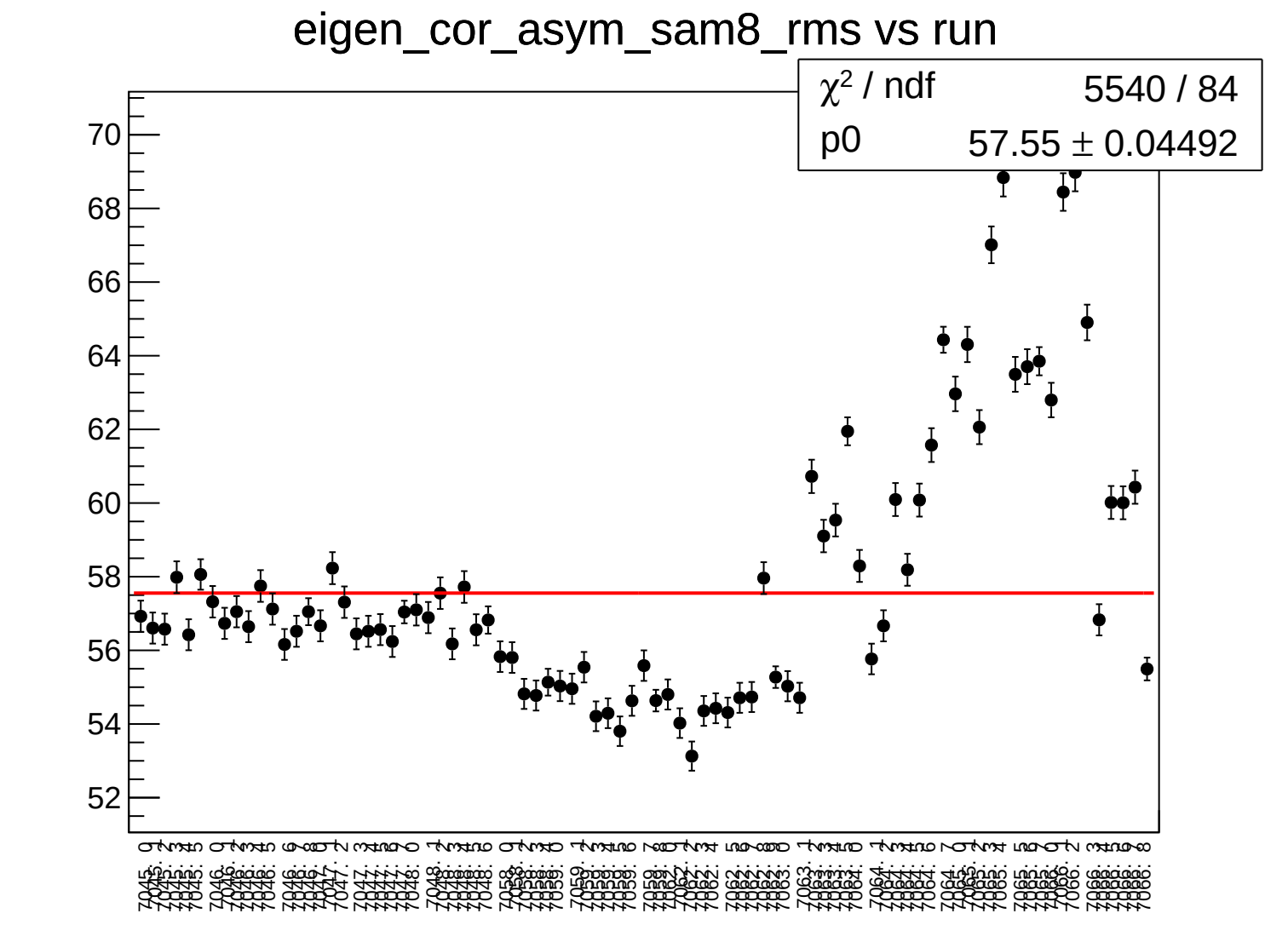

asym_sam8_cor_correction_mean vs run
χ² / ndf 64.76 / 84
p0 −393.4 ± 274.2
pull
Entries 85
Mean −160.5
Std Dev 0

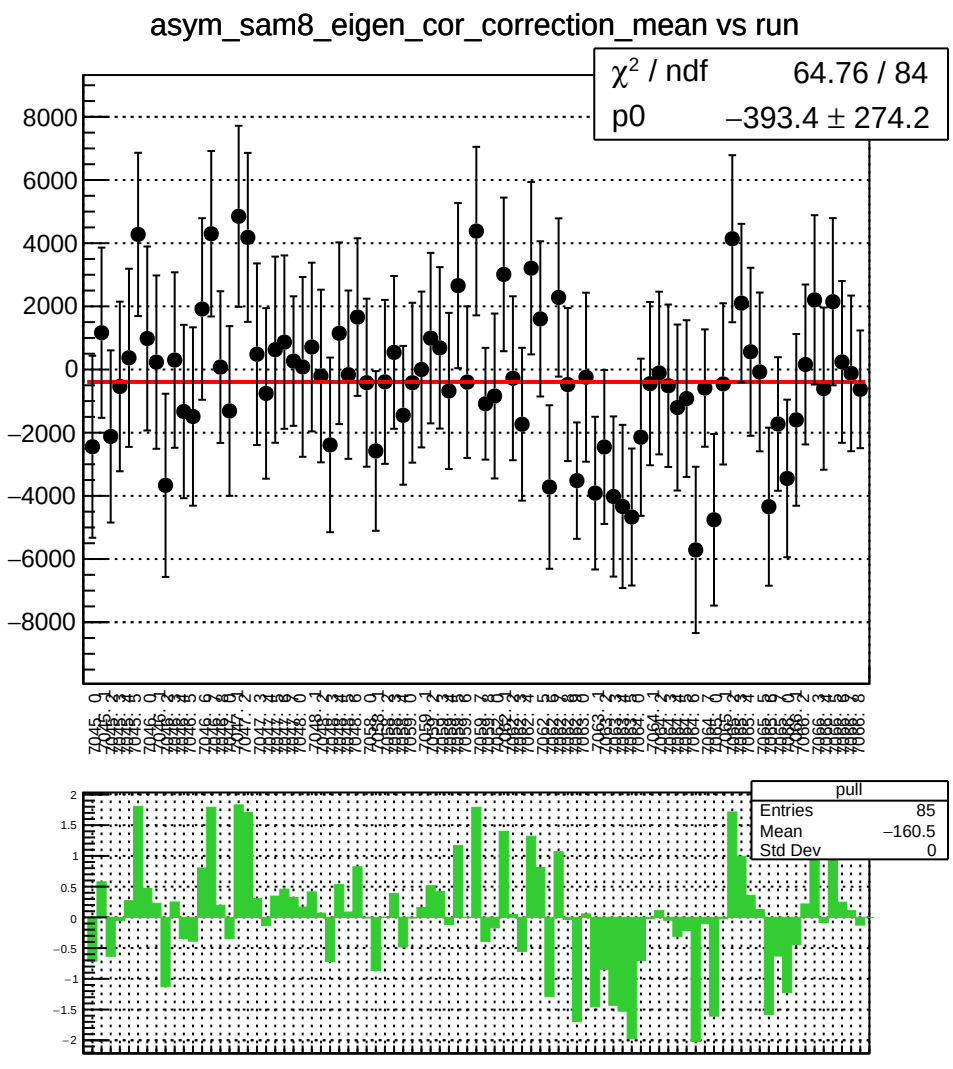

pull1D
Entries 85
Mean 0.02347
Std Dev 0.8726

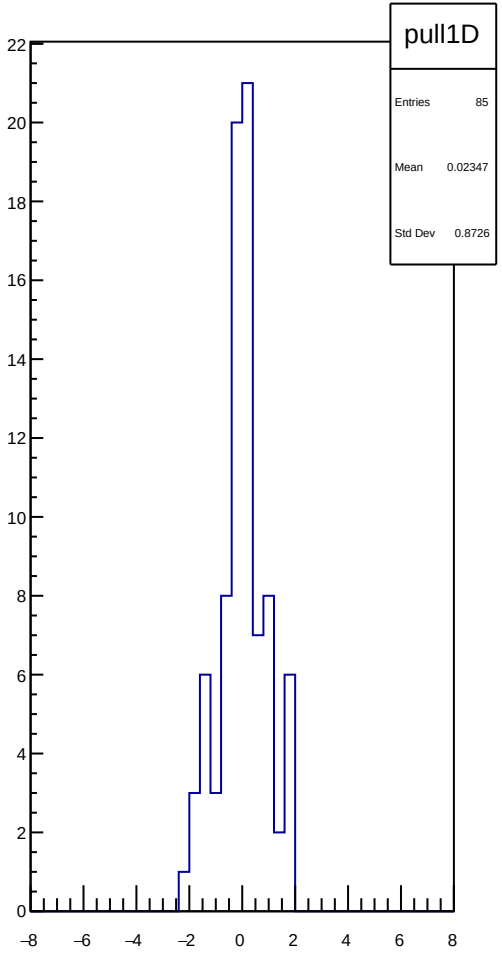

asym_sam8_cor_correction_rms vs run
χ² / ndf 4479 / 84
p0 248.5 ± 0.1939
280
270
260
250
240
230

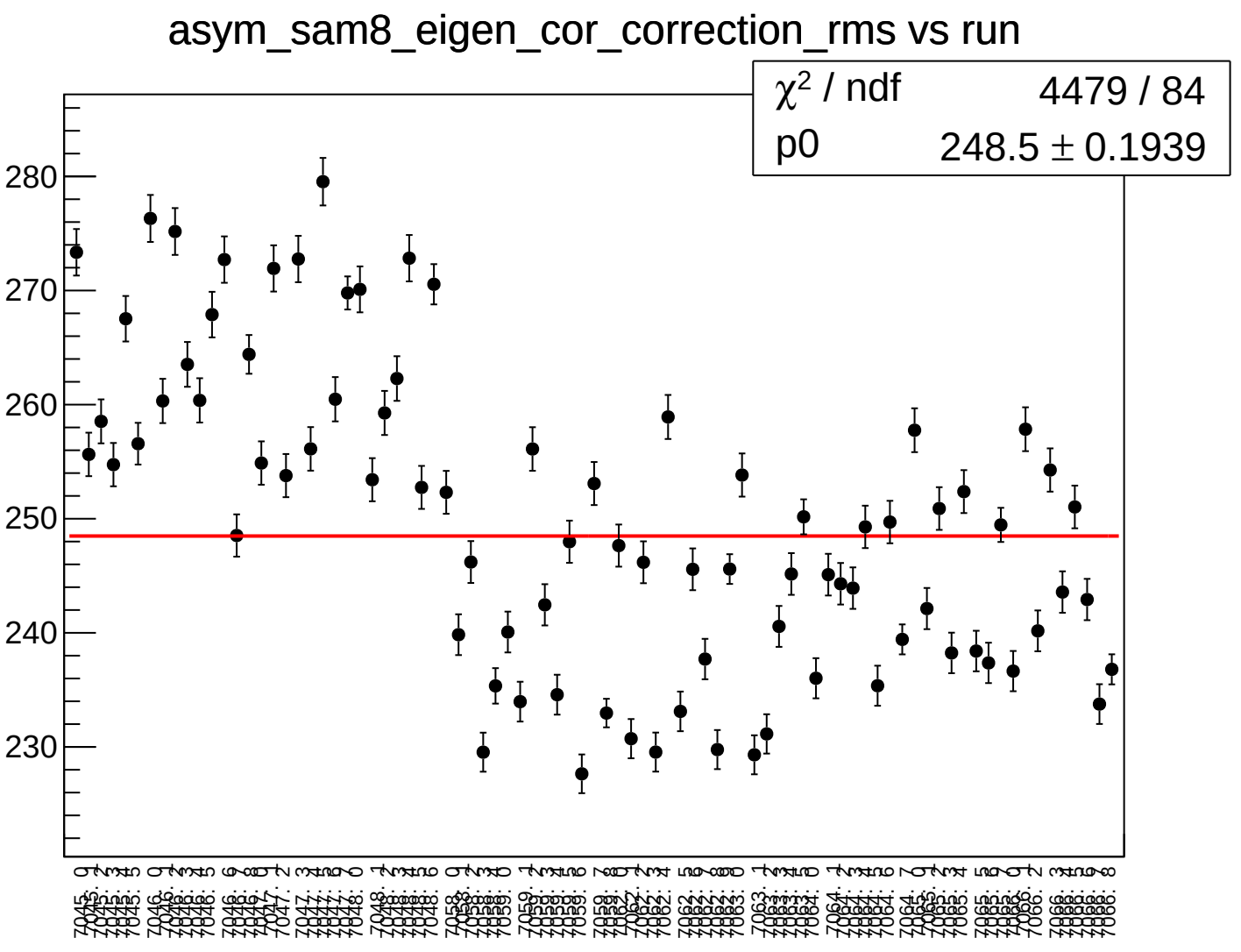

eigen_cor_asym_sam8_mean vs run
χ² / ndf 62.65 / 84
p0 −291.1± 63.53
pull
Entries 85
Mean −86.32
Std Dev 0

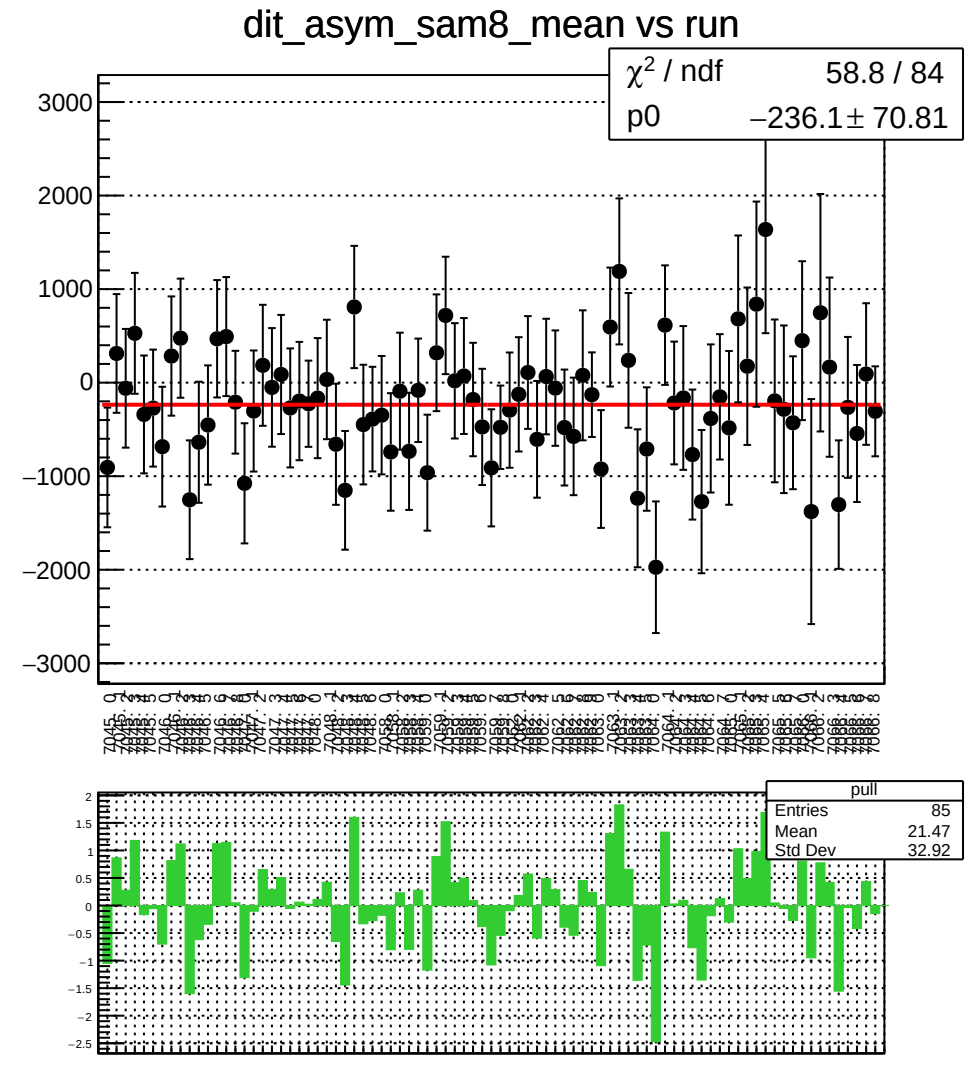

pull1D
Entries 85
Mean 0.008241
Std Dev 0.8585

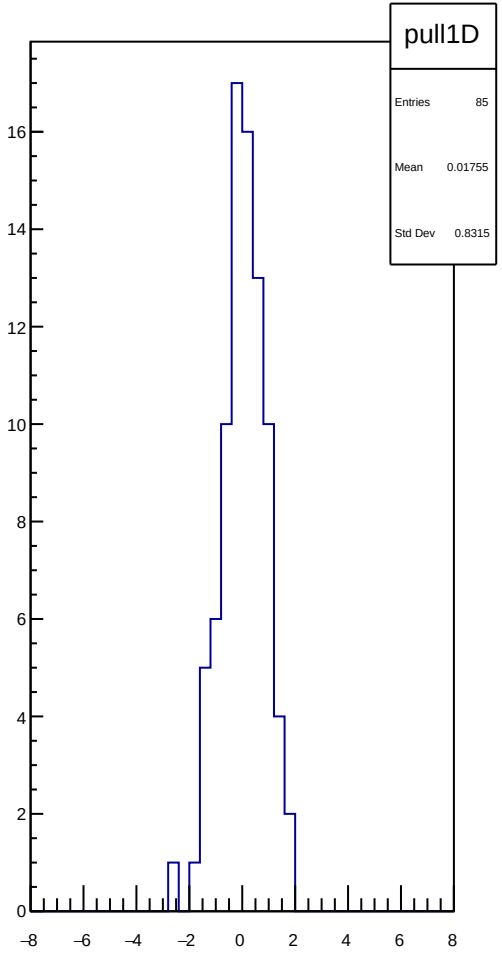

eigen_cor_asym_sam8_rms vs run
χ² / ndf 5540 / 84
p0 57.55 ± 0.04492
70
68
66
64
62
60
58
56
54
52

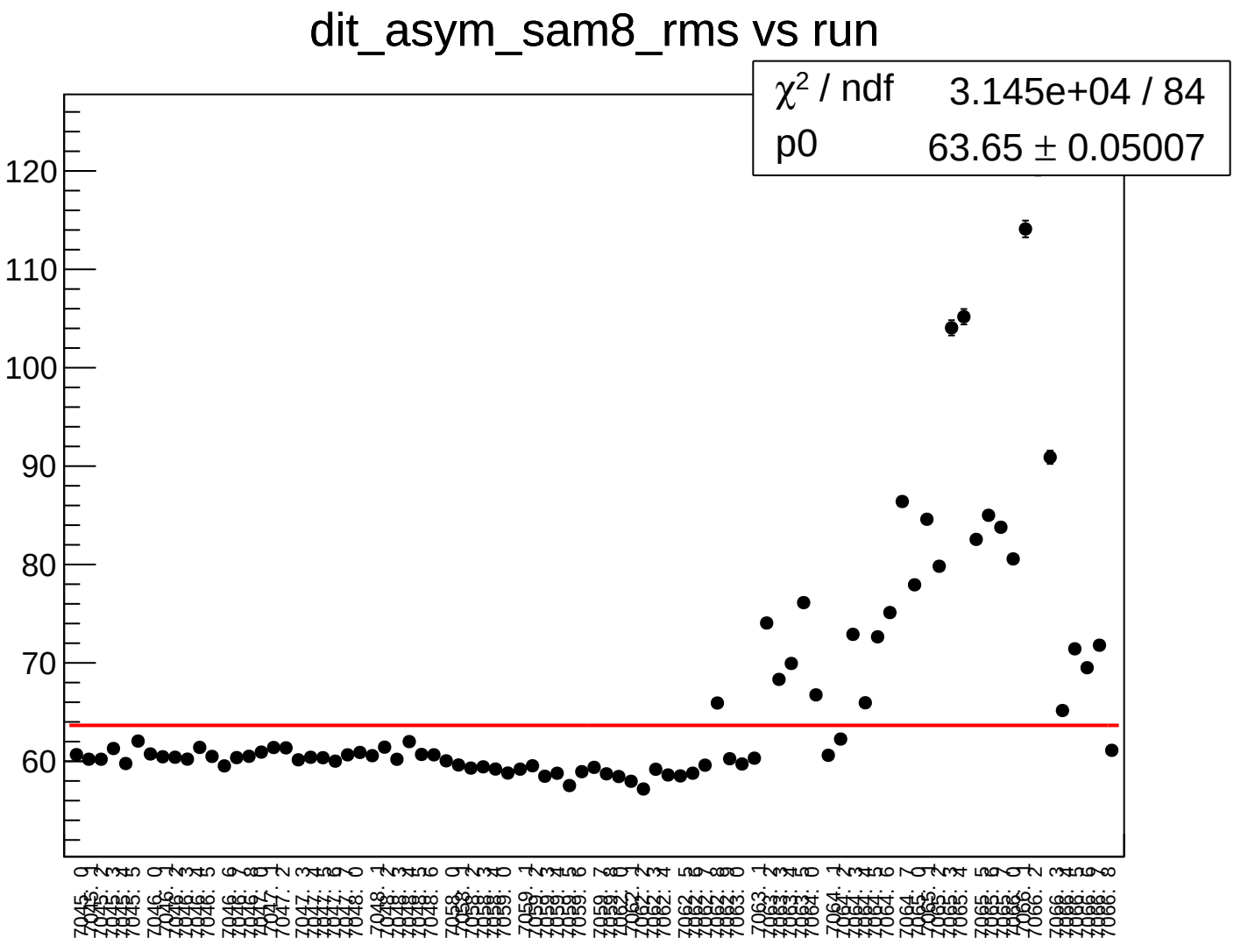

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 64.76 / 84
p0 −393.4 ± 274.2
pull
Entries 85
Mean −160.5
Std Dev 0

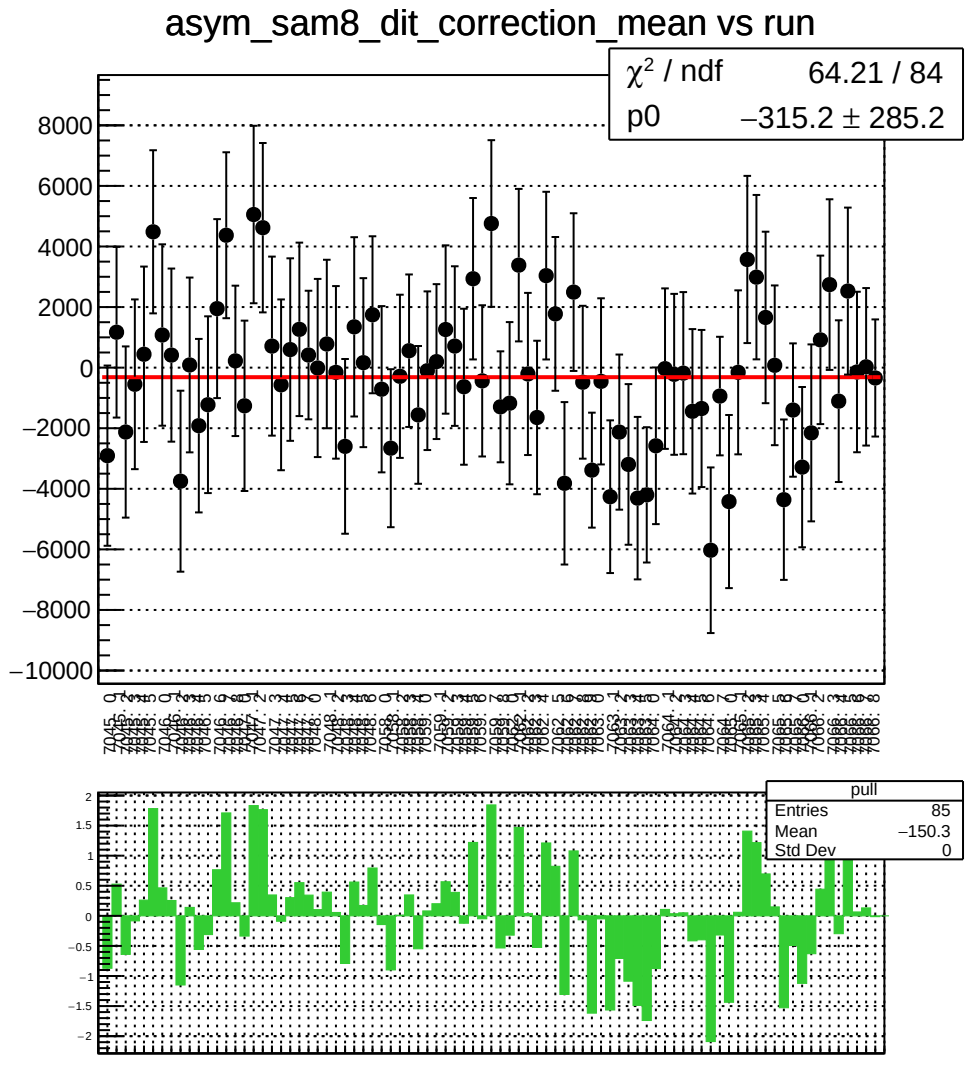

pull1D
Entries 85
Mean 0.02347
Std Dev 0.8726

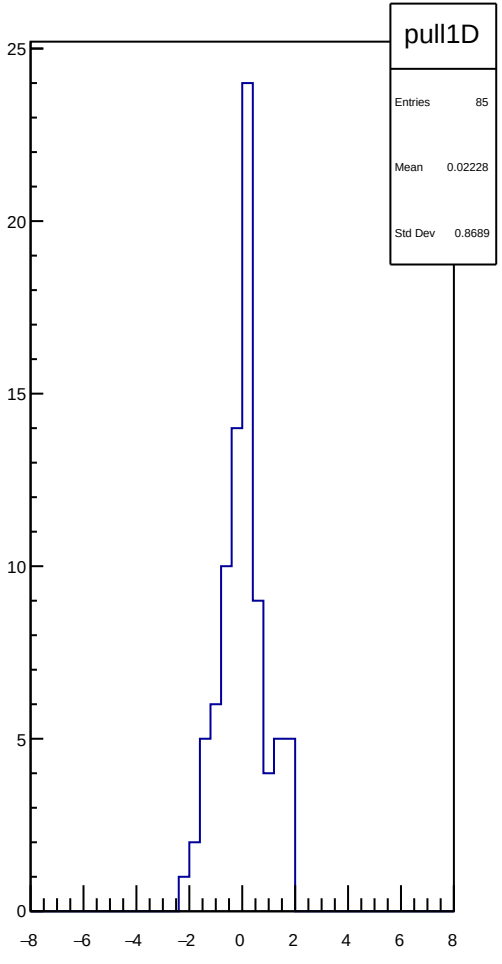

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4479 / 84
p0 248.5 ± 0.1939
280
270
260
250
240
230

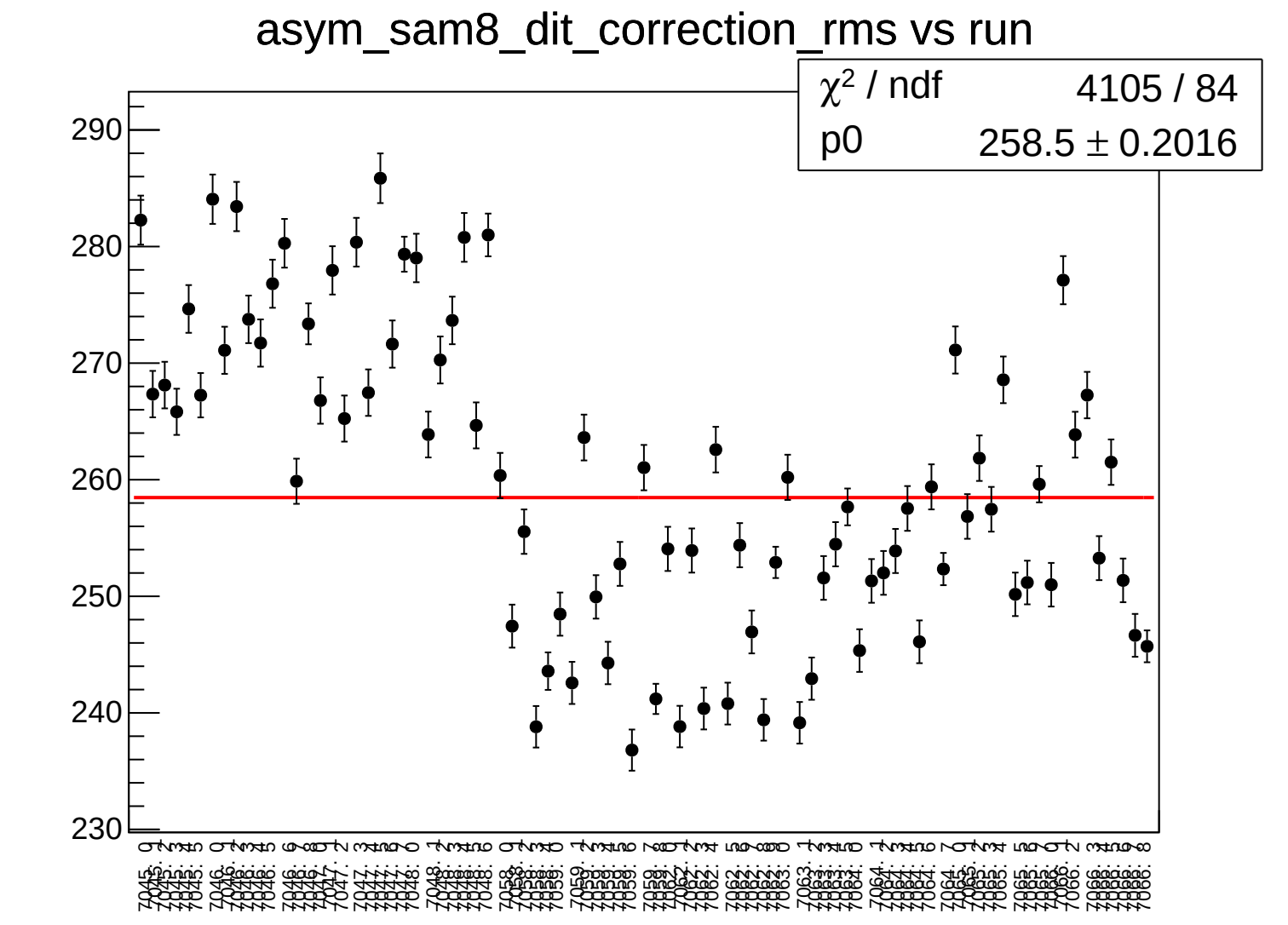

dit_asym_sam8_mean vs run
χ² / ndf 58.8 / 84
p0 −236.1 ± 70.81
pull
Entries 85
Mean 21.47
Std Dev 32.92

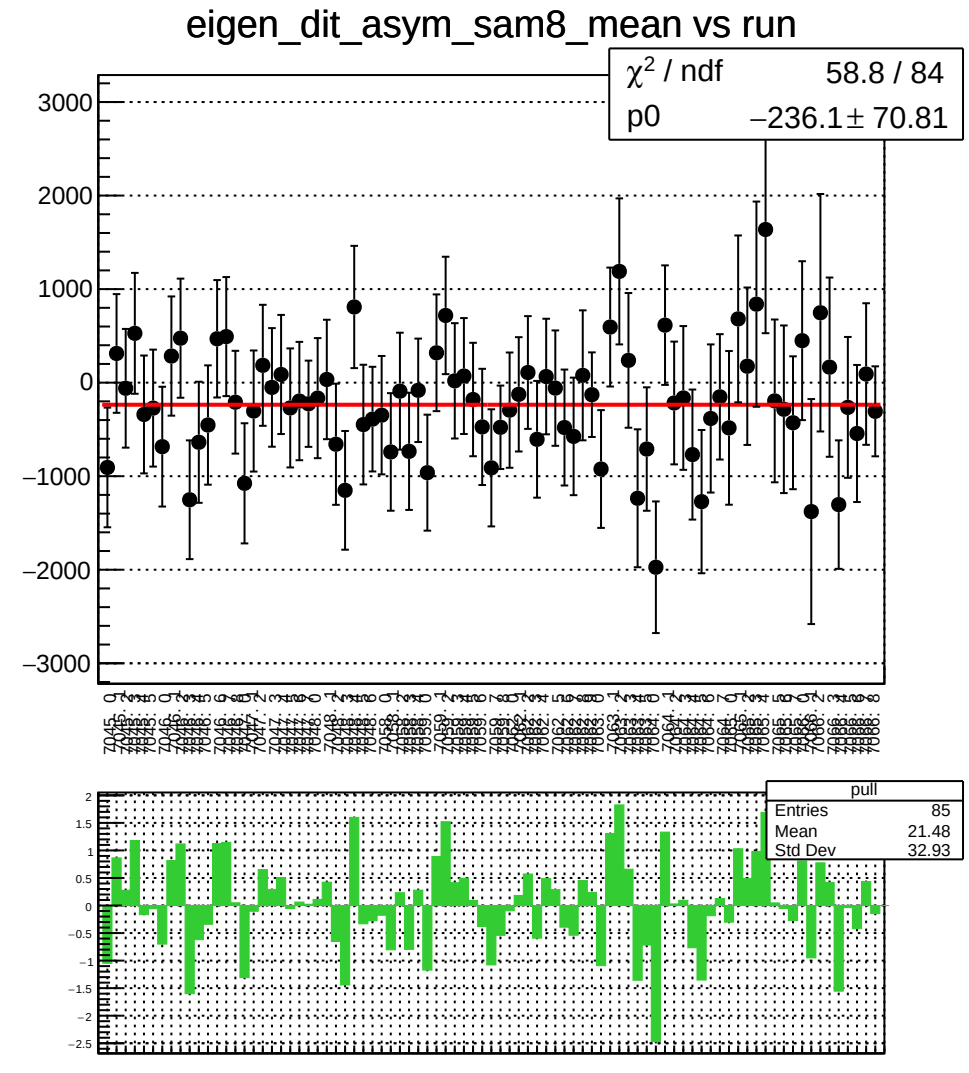

pull1D
Entries 85
Mean 0.01755
Std Dev 0.8315

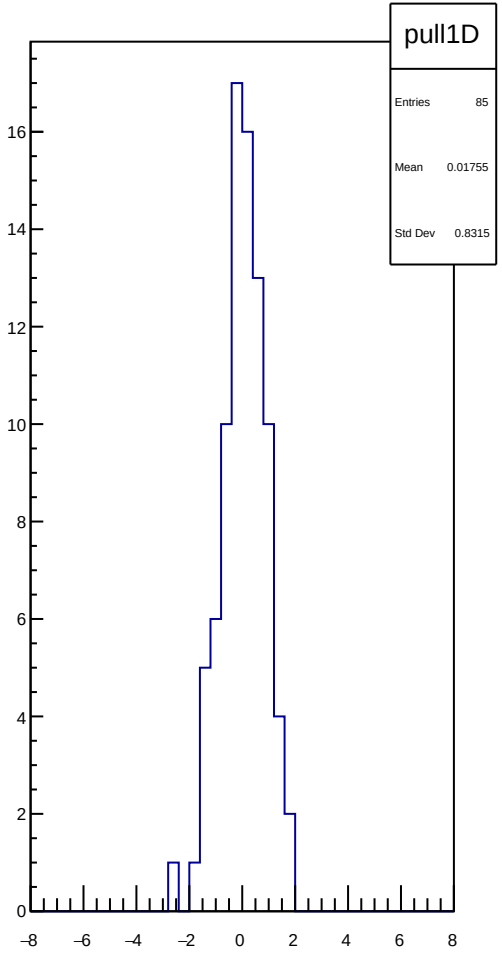

dit_asym_sam8_rms vs run
χ² / ndf 3.145e+04 / 84
p0 63.65 ± 0.05007
120
110
100
90
80
70
60

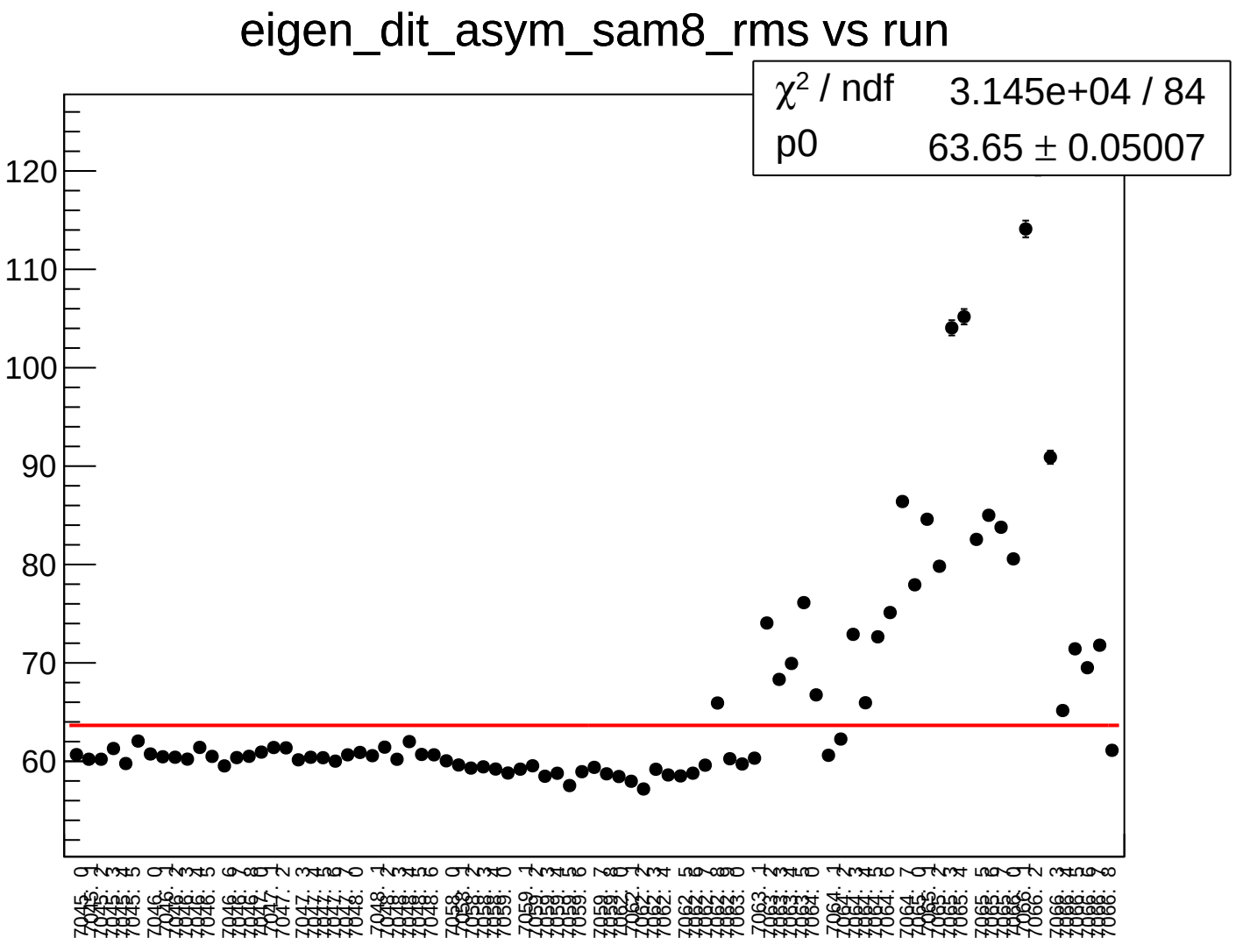

asym_sam8_dit_correction_mean vs run
χ² / ndf 64.21 / 84
p0 −315.2 ± 285.2
pull
Entries 85
Mean −150.3
Std Dev 0

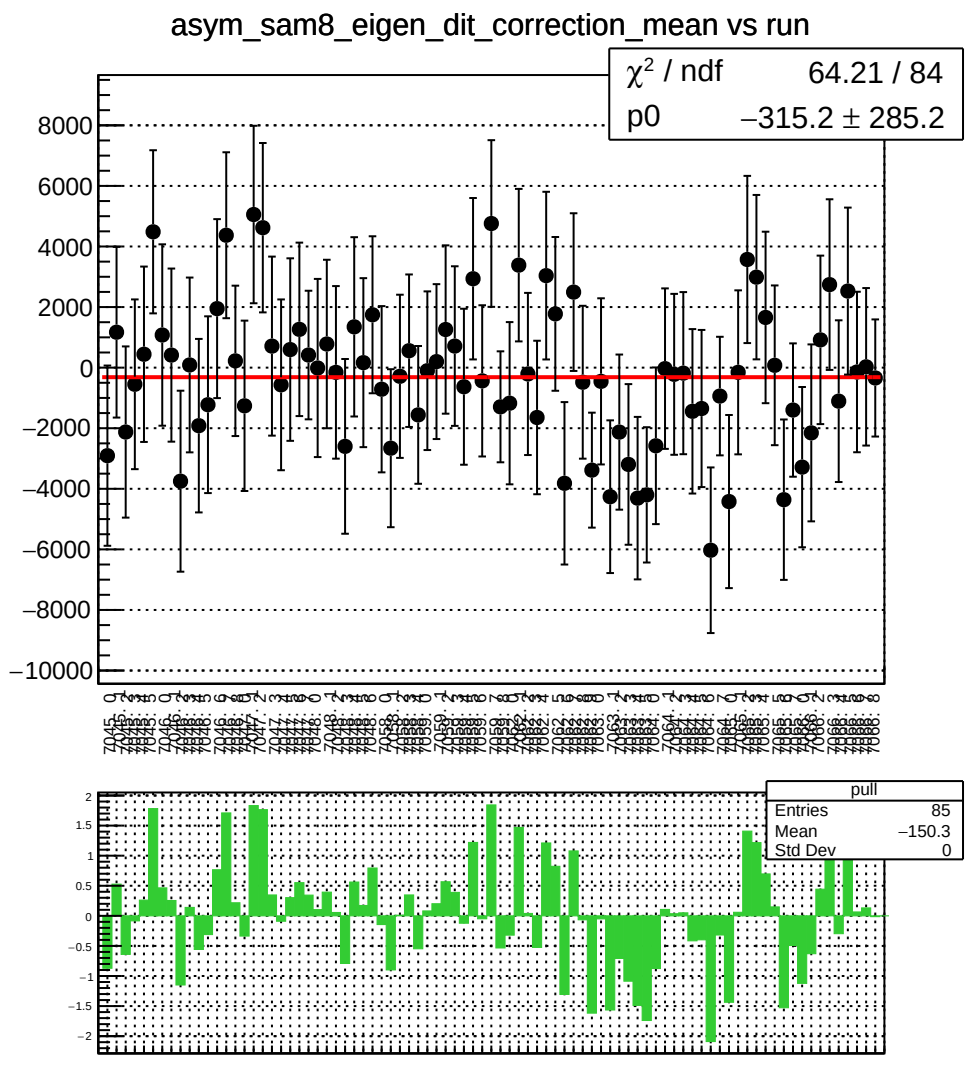

pull1D
Entries 85
Mean 0.02228
Std Dev 0.8689

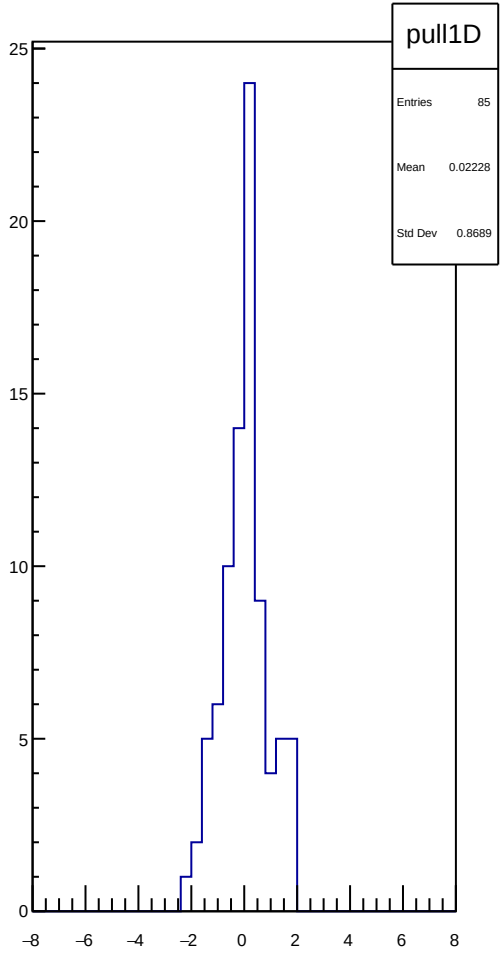

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 4105 / 84
p0 258.5 ± 0.2016
290
280
270
260
250
240
230

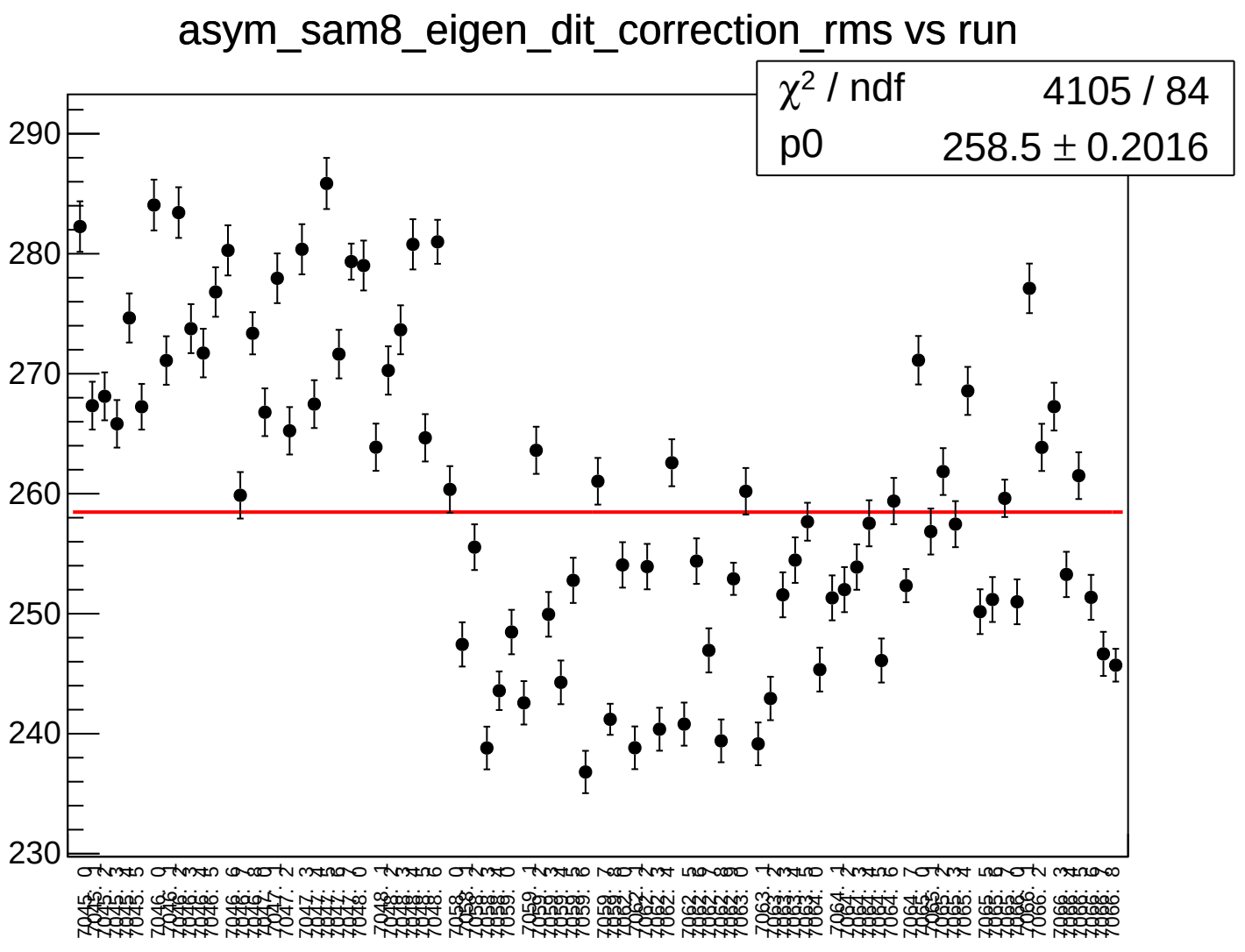

eigen_dit_asym_sam8_mean vs run
χ² / ndf 58.8 / 84
p0 −236.1 ± 70.81
pull
Entries 85
Mean 21.48
Std Dev 32.93

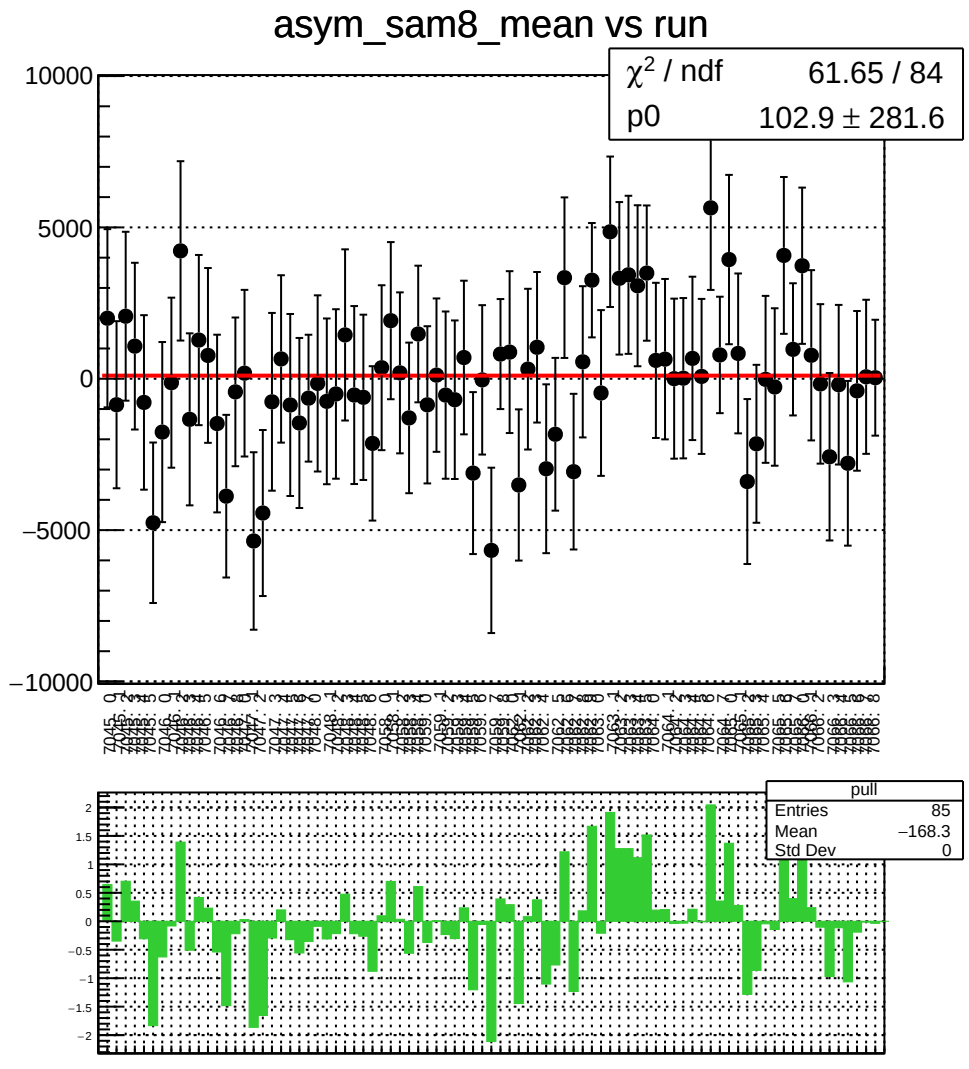

pull1D
Entries 85
Mean 0.01755
Std Dev 0.8315

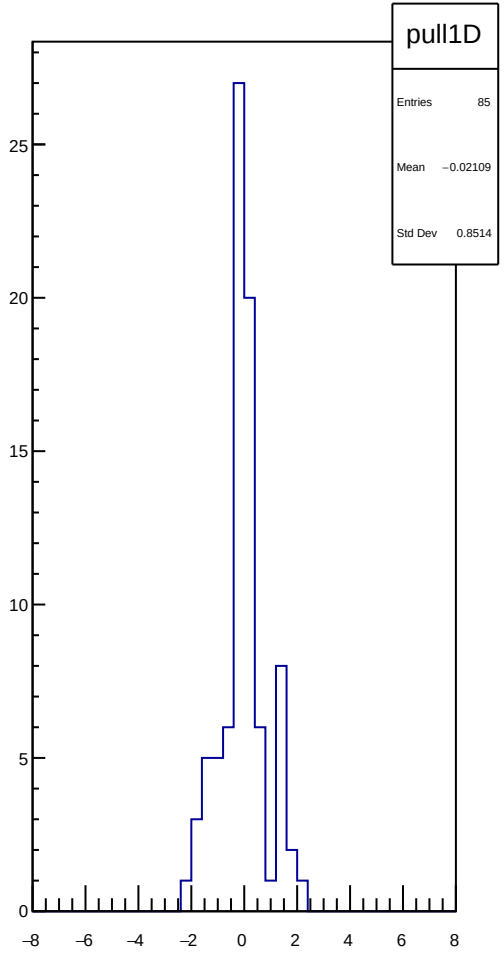

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 3.145e+04 / 84
p0 63.65 ± 0.05007
120
110
100
90
80
70
60

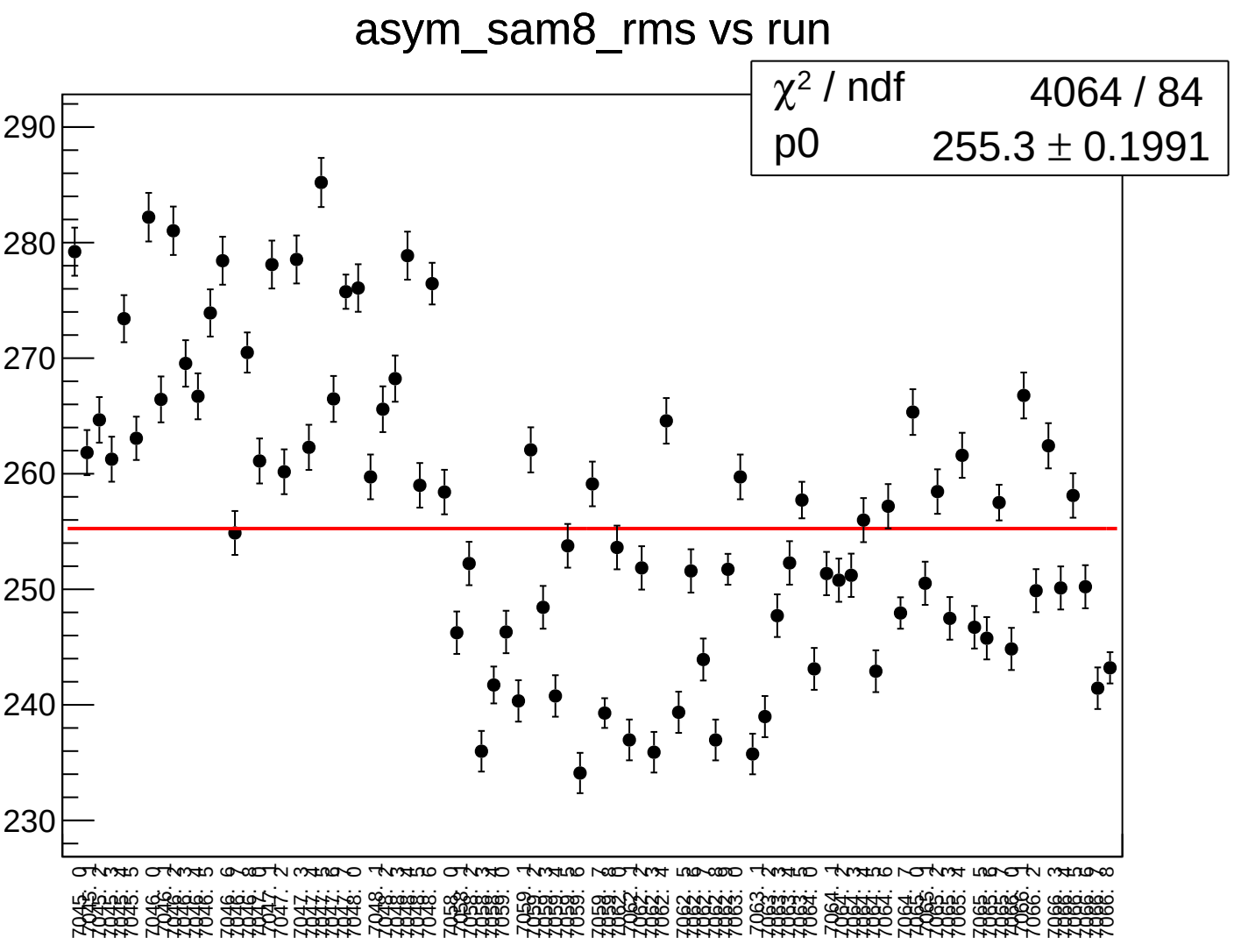

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 64.21 / 84
p0 −315.2 ± 285.2
pull
Entries 85
Mean −150.3
Std Dev 0

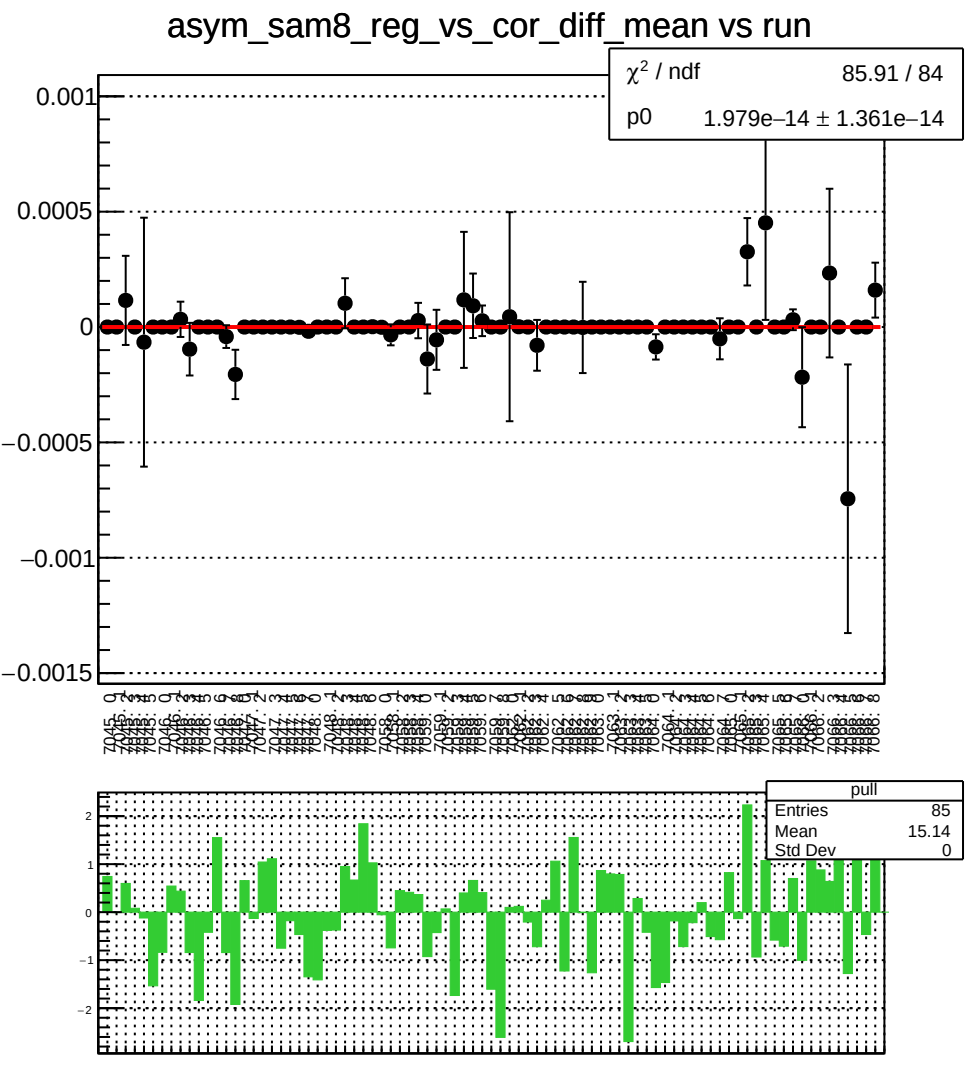

pull1D
Entries 85
Mean 0.02228
Std Dev 0.8689

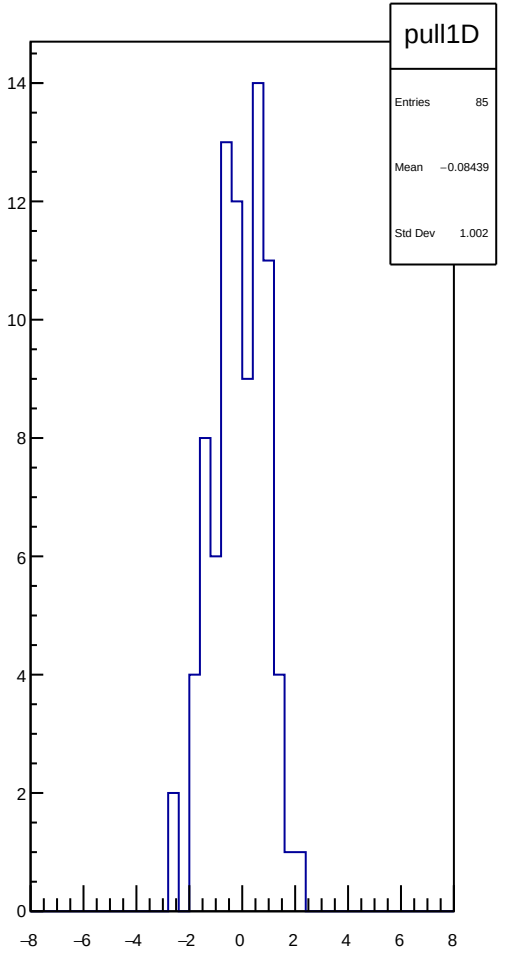

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4105 / 84
p0 258.5 ± 0.2016
290
280
270
260
250
240
230

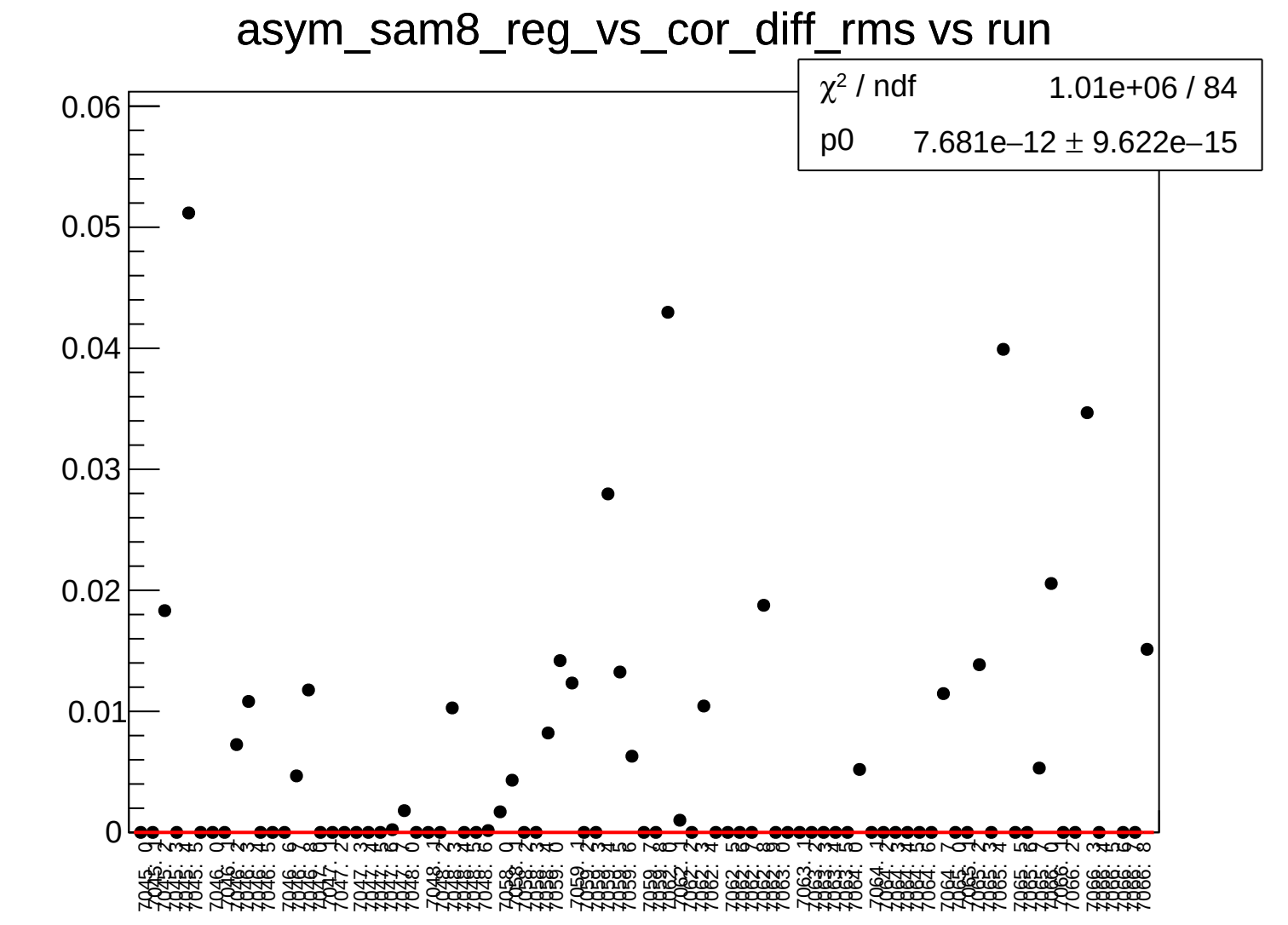

asym_sam8_mean vs run
χ² / ndf 61.65 / 84
p0 102.9 ± 281.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −168.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

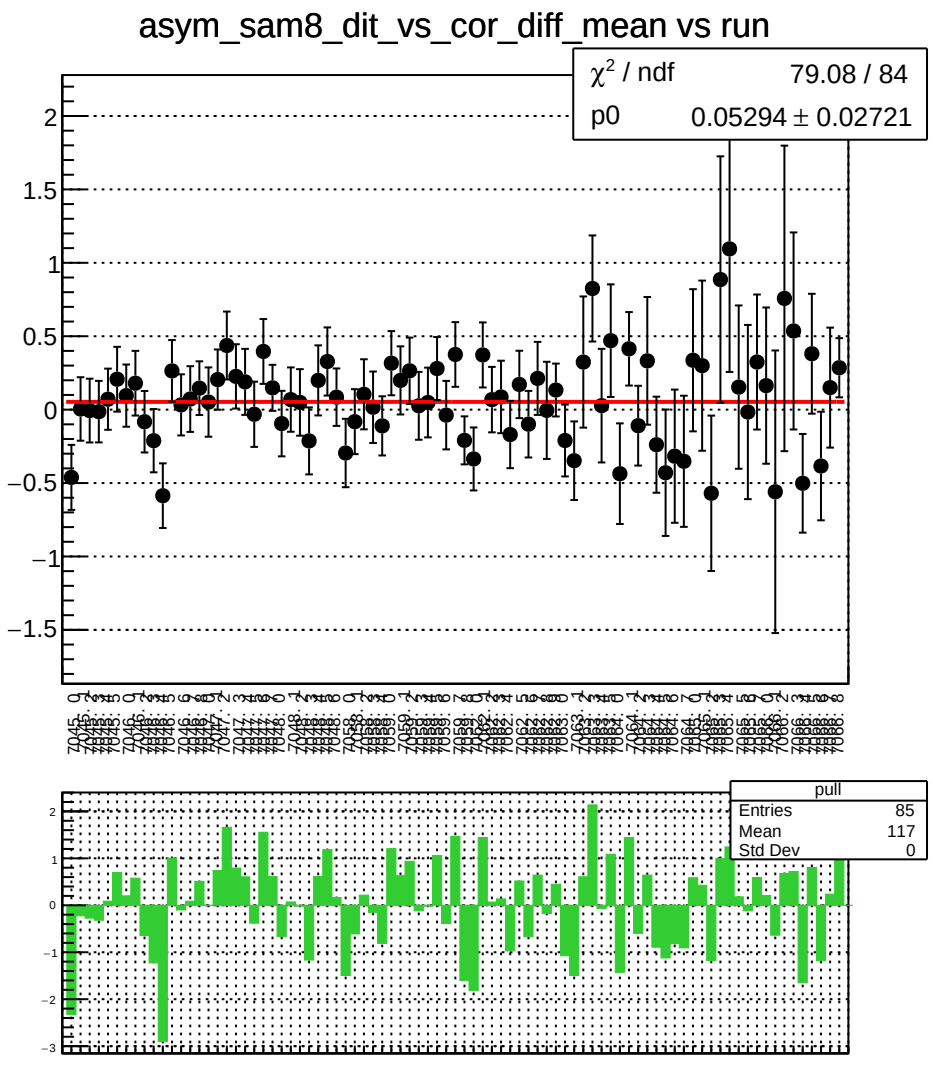

pull1D
Entries 85
Mean −0.02109
Std Dev 0.8514
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

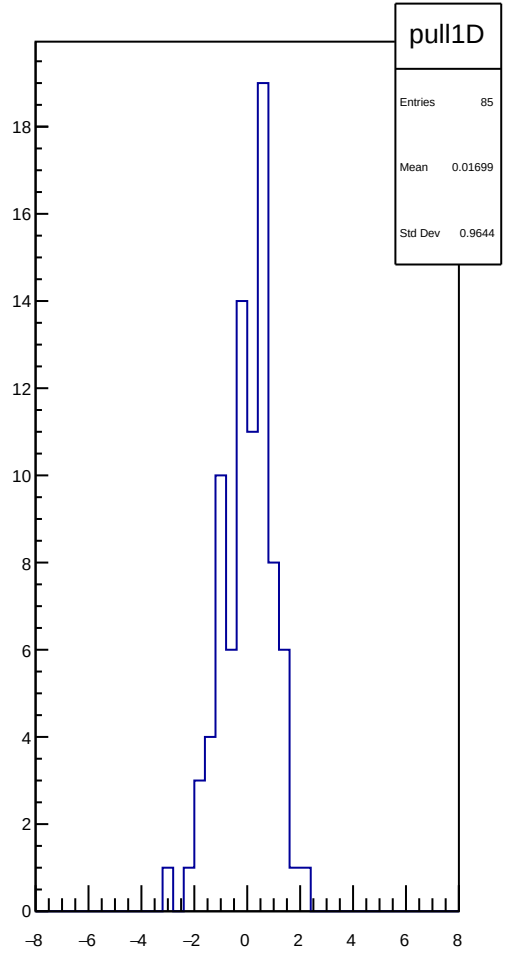

asym_sam8_rms vs run
χ² / ndf 4064 / 84
p0 255.3 ± 0.1991
290
280
270
260
250
240
230

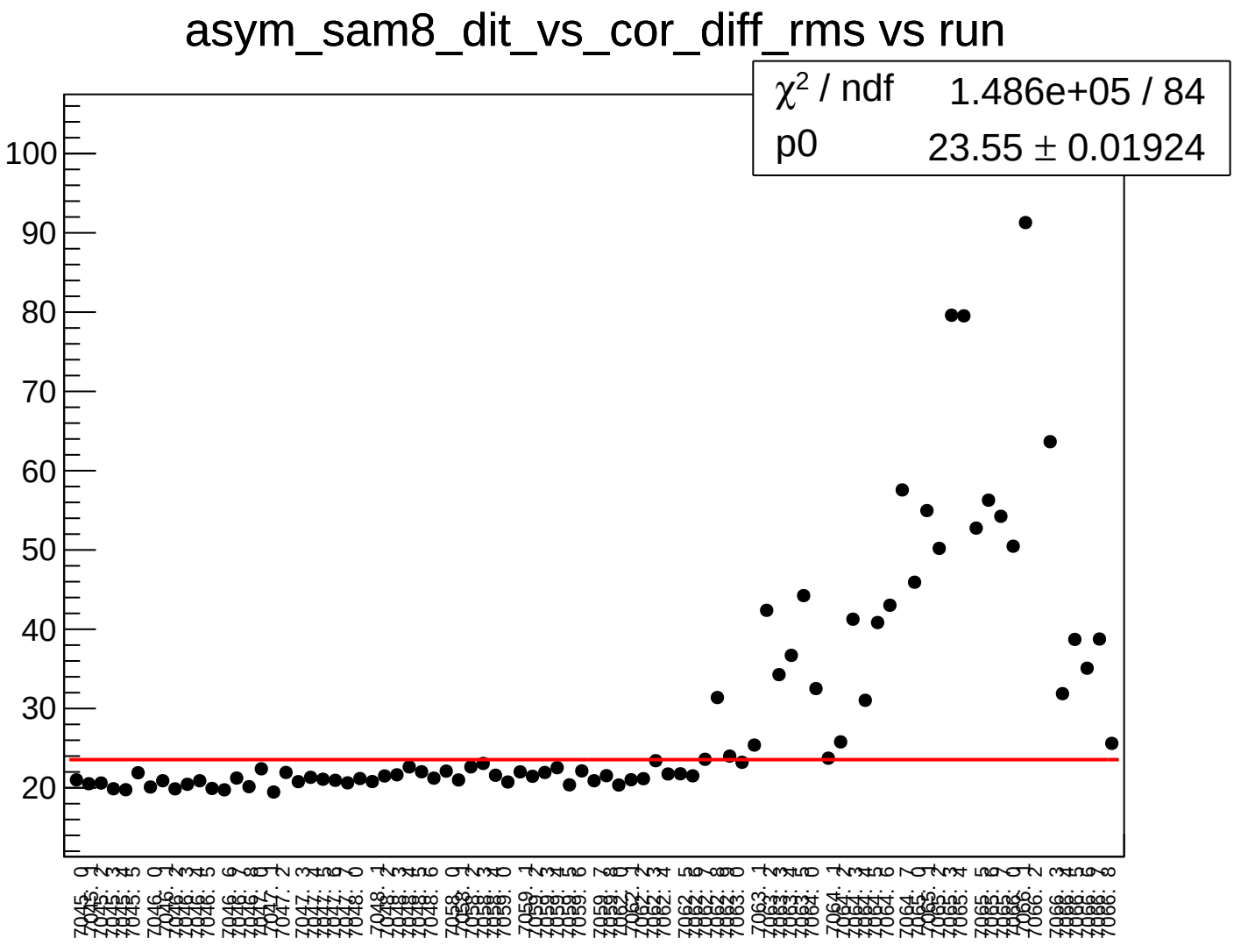

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 85.91 / 84
p0 1.979e−14 ± 1.361e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 15.14
Std Dev 0
2
1
0
−1
−2

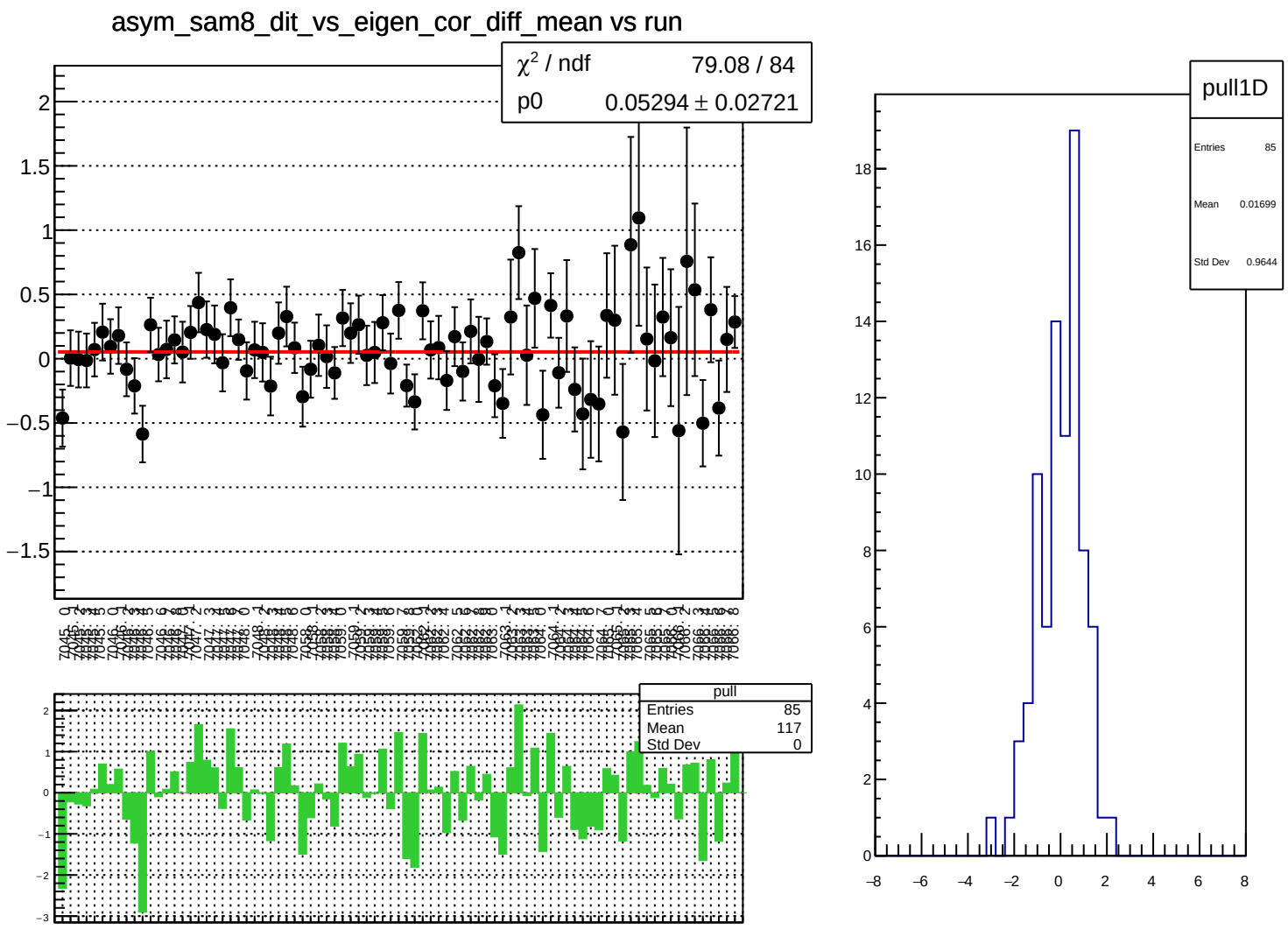

pull1D
Entries 85
Mean −0.08439
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

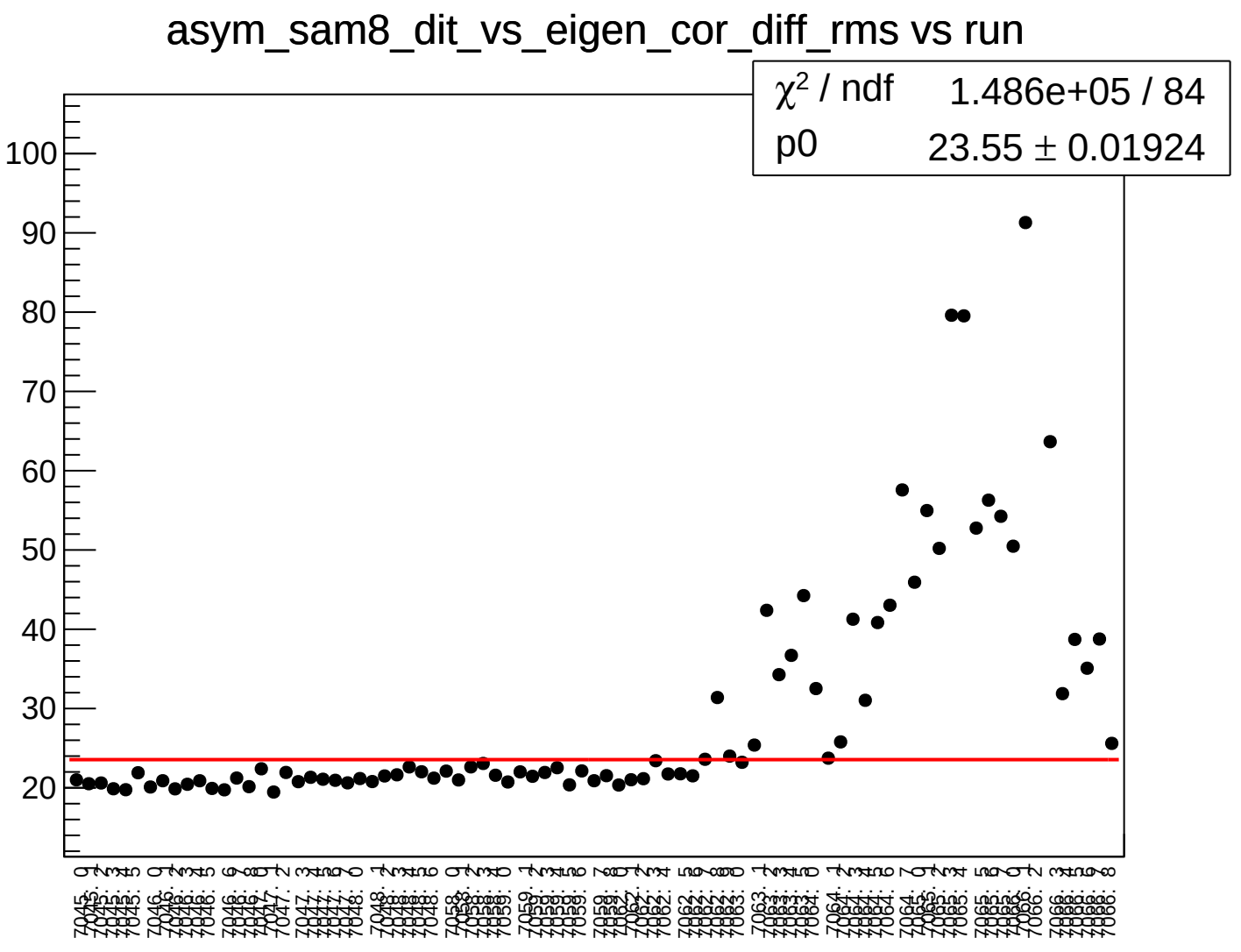

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 84
p0 7.681e−12 ± 9.622e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

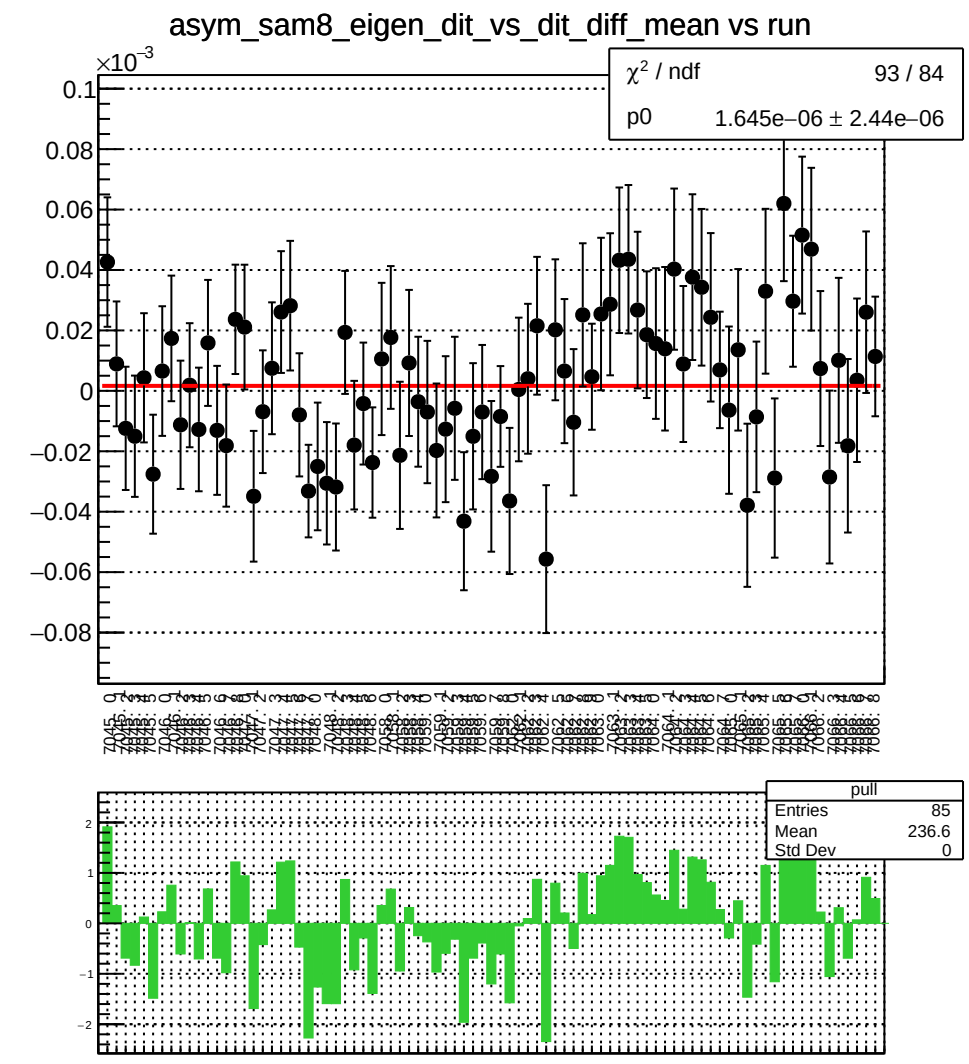

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 79.08 / 84
p0 0.05294 ± 0.02721
pull
Entries 85
Mean 117
Std Dev 0

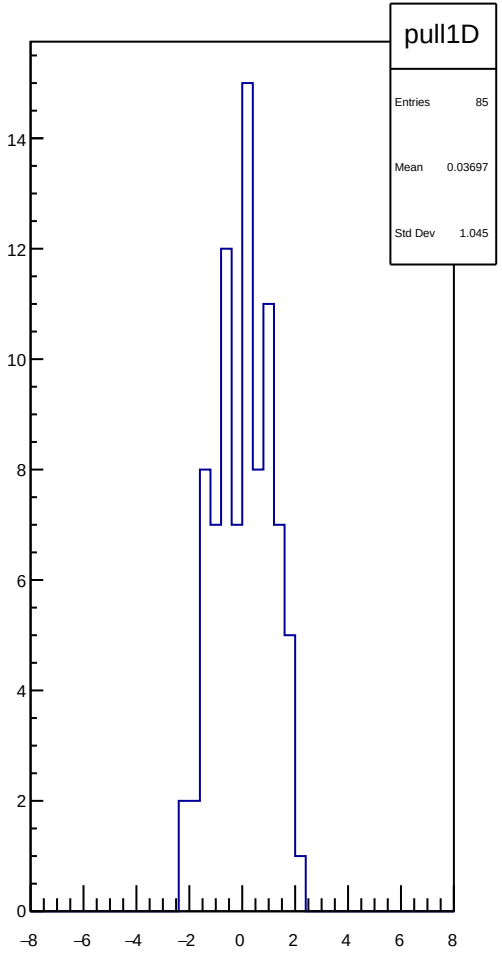

pull1D
Entries 85
Mean 0.01699
Std Dev 0.9644

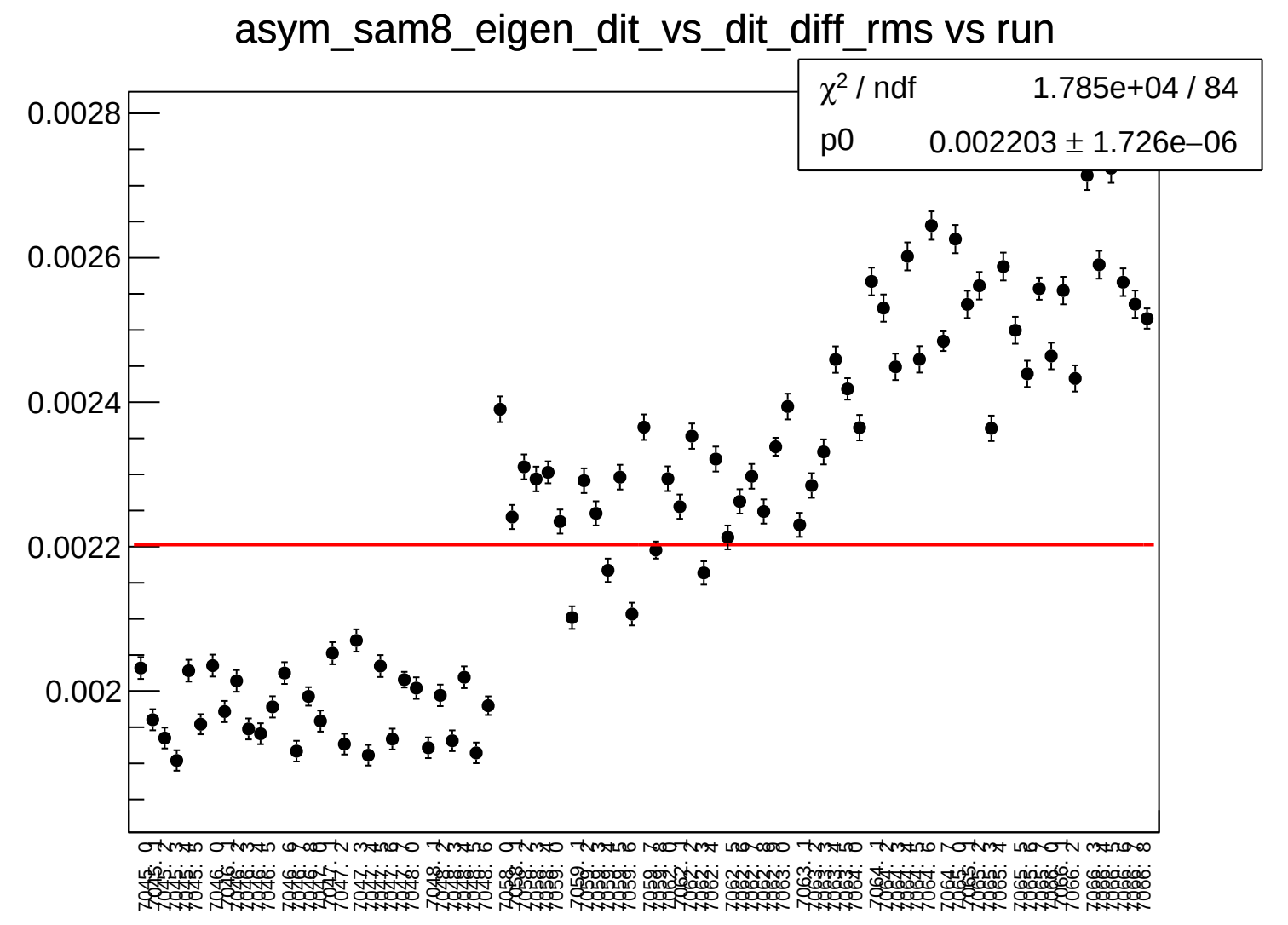

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.486e+05 / 84
p0 23.55 ± 0.01924
100
90
80
70
60
50
40
30
20

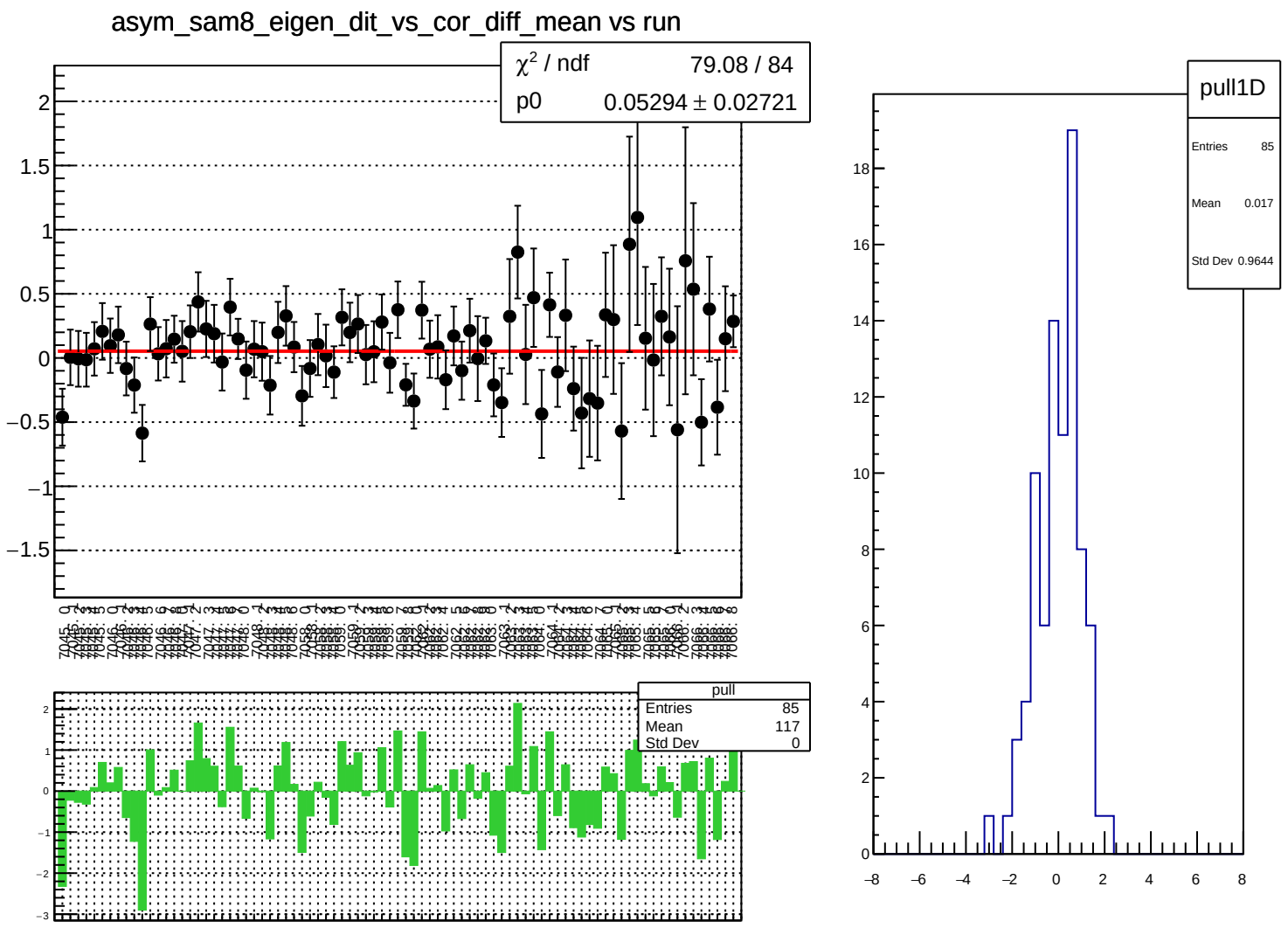

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.08 / 84
p0 0.05294 ± 0.02721
pull
Entries 85
Mean 117
Std Dev 0
pull1D
Entries 85
Mean 0.01699
Std Dev 0.9644

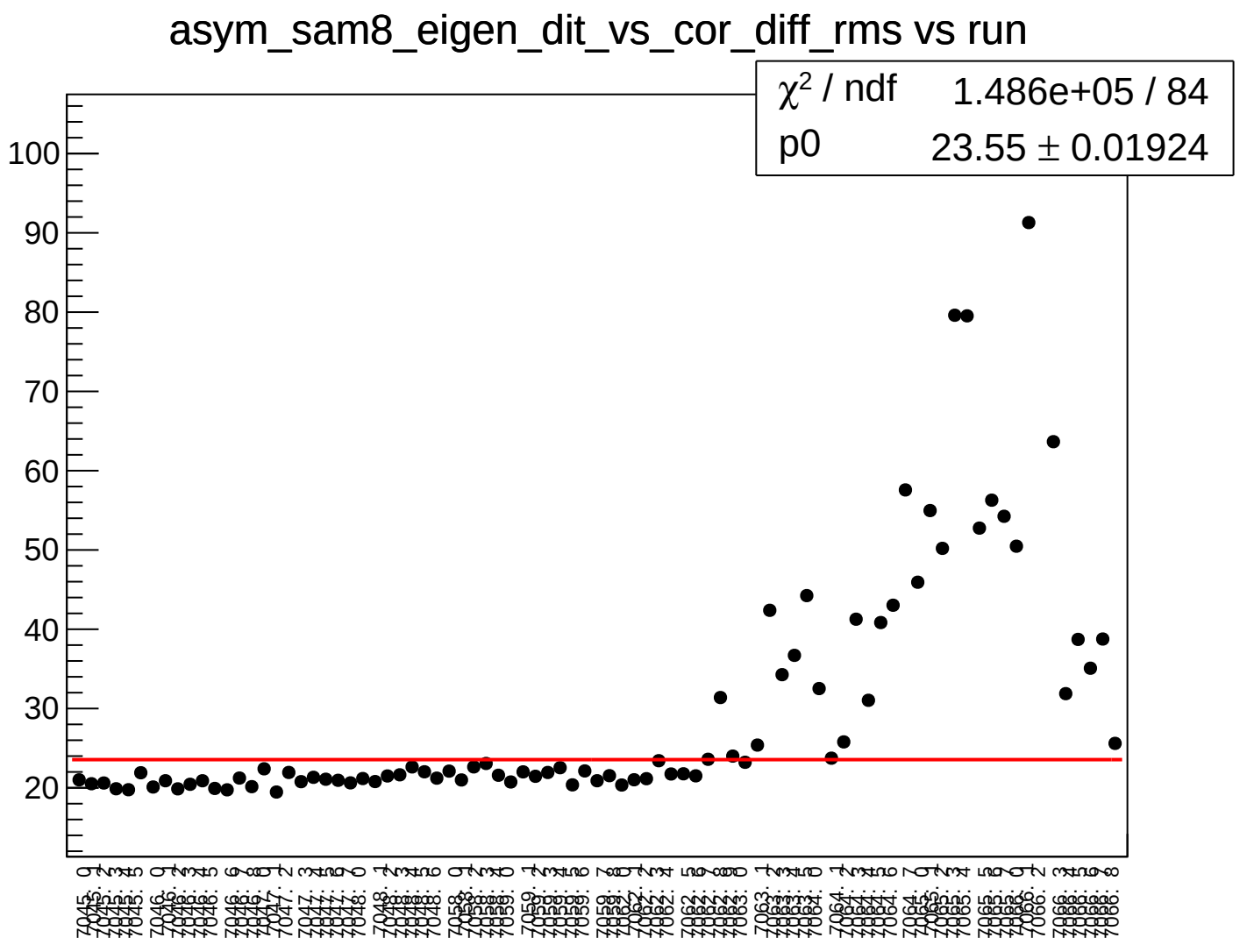

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.486e+05 / 84
p0 23.55 ± 0.01924
100
90
80
70
60
50
40
30
20

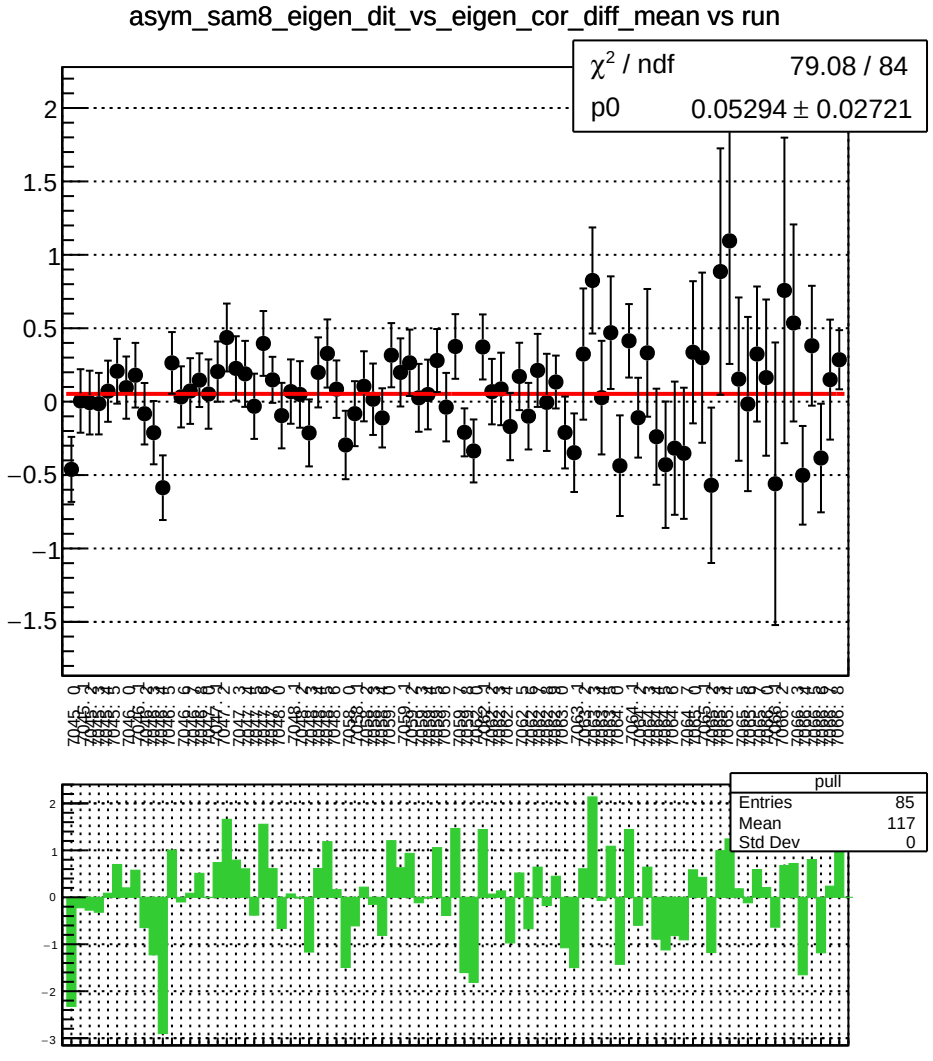

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93 / 84
p0 1.645e−06 ± 2.44e−06
pull
Entries 85
Mean 236.6
Std Dev 0

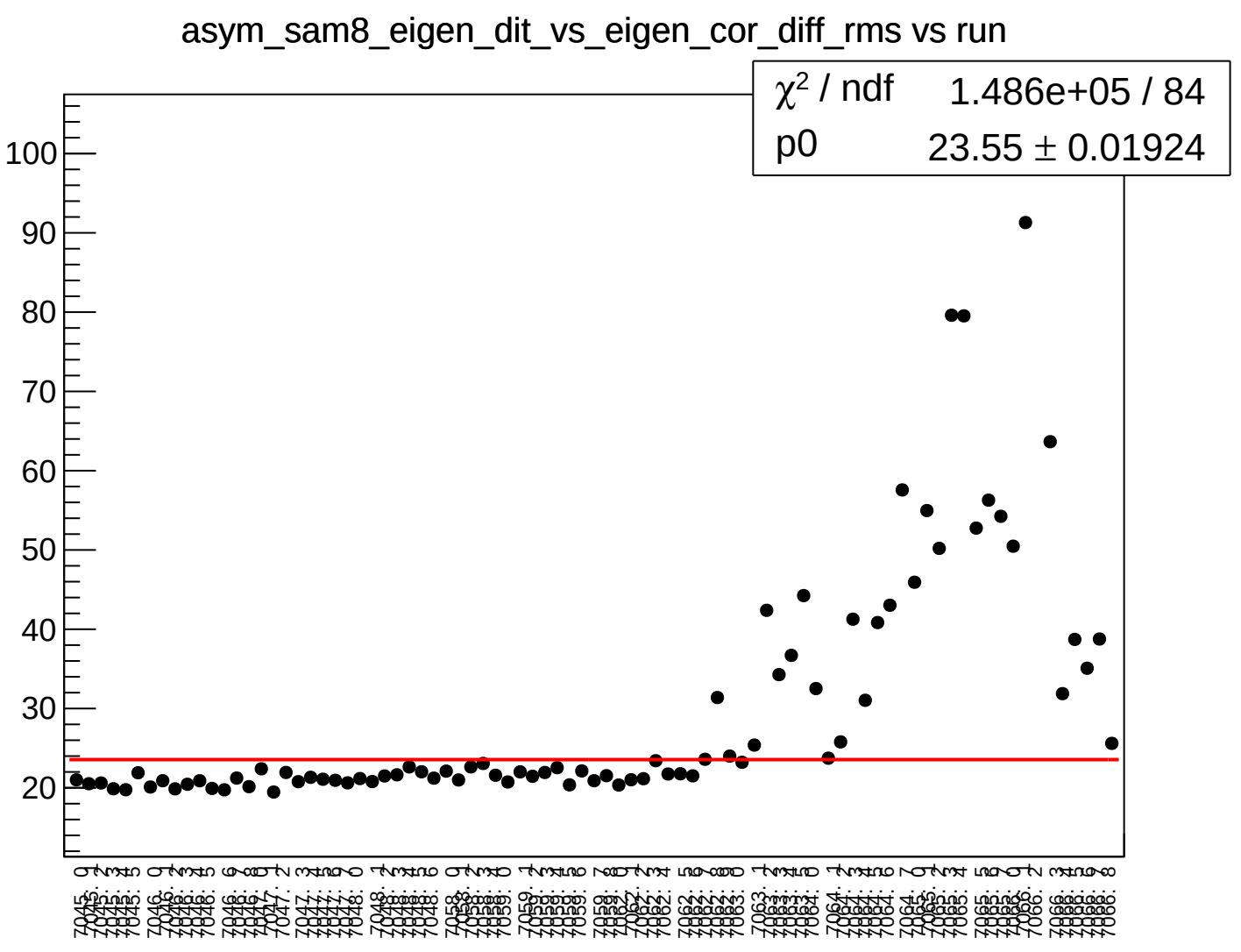

pull1D
Entries 85
Mean 0.03697
Std Dev 1.045

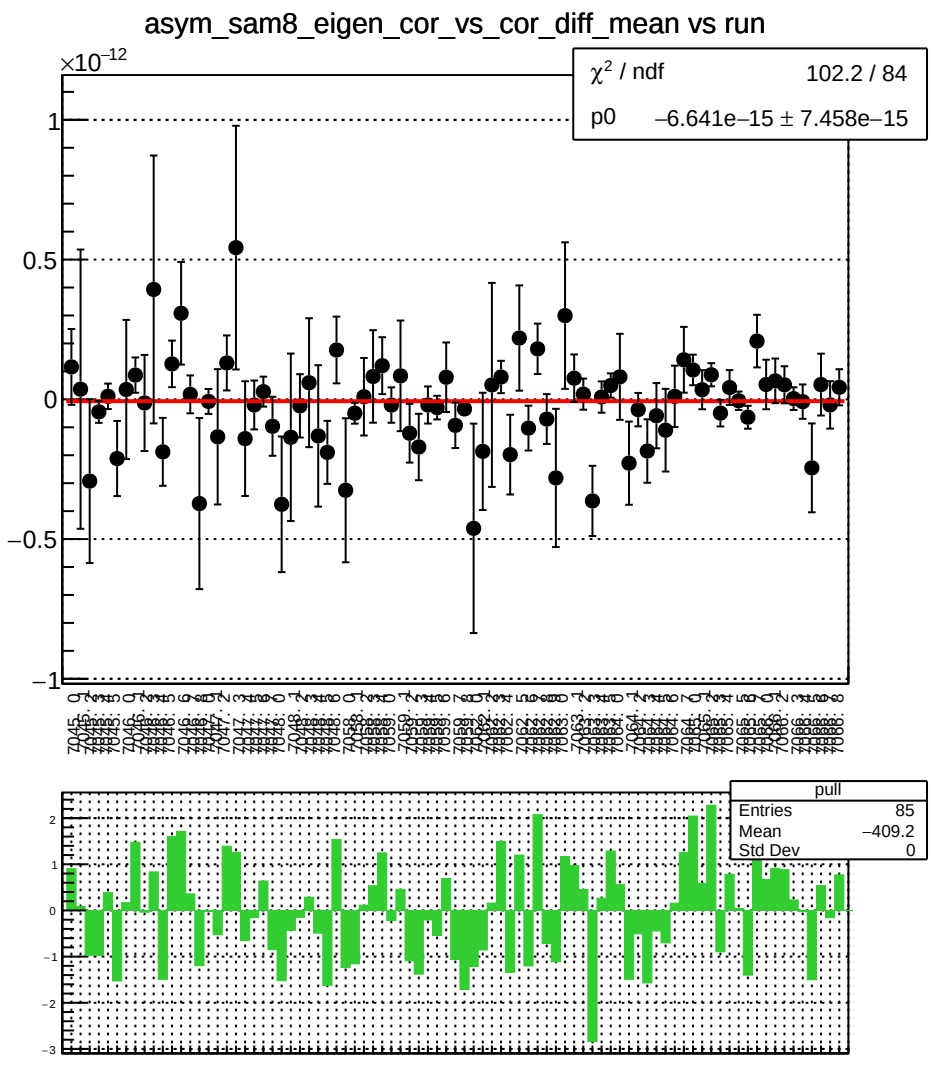

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.785e+04 / 84
p0 0.002203 ± 1.726e−06
0.0028
0.0026
0.0024
0.0022
0.002

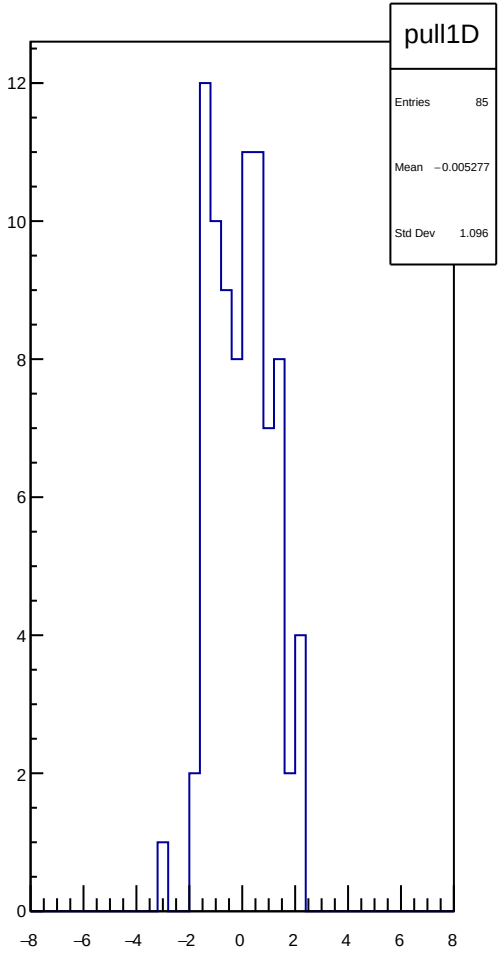

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.08 / 84
p0 0.05294 ± 0.02721
pull
Entries 85
Mean 117
Std Dev 0
pull1D
Entries 85
Mean 0.017
Std Dev 0.9644

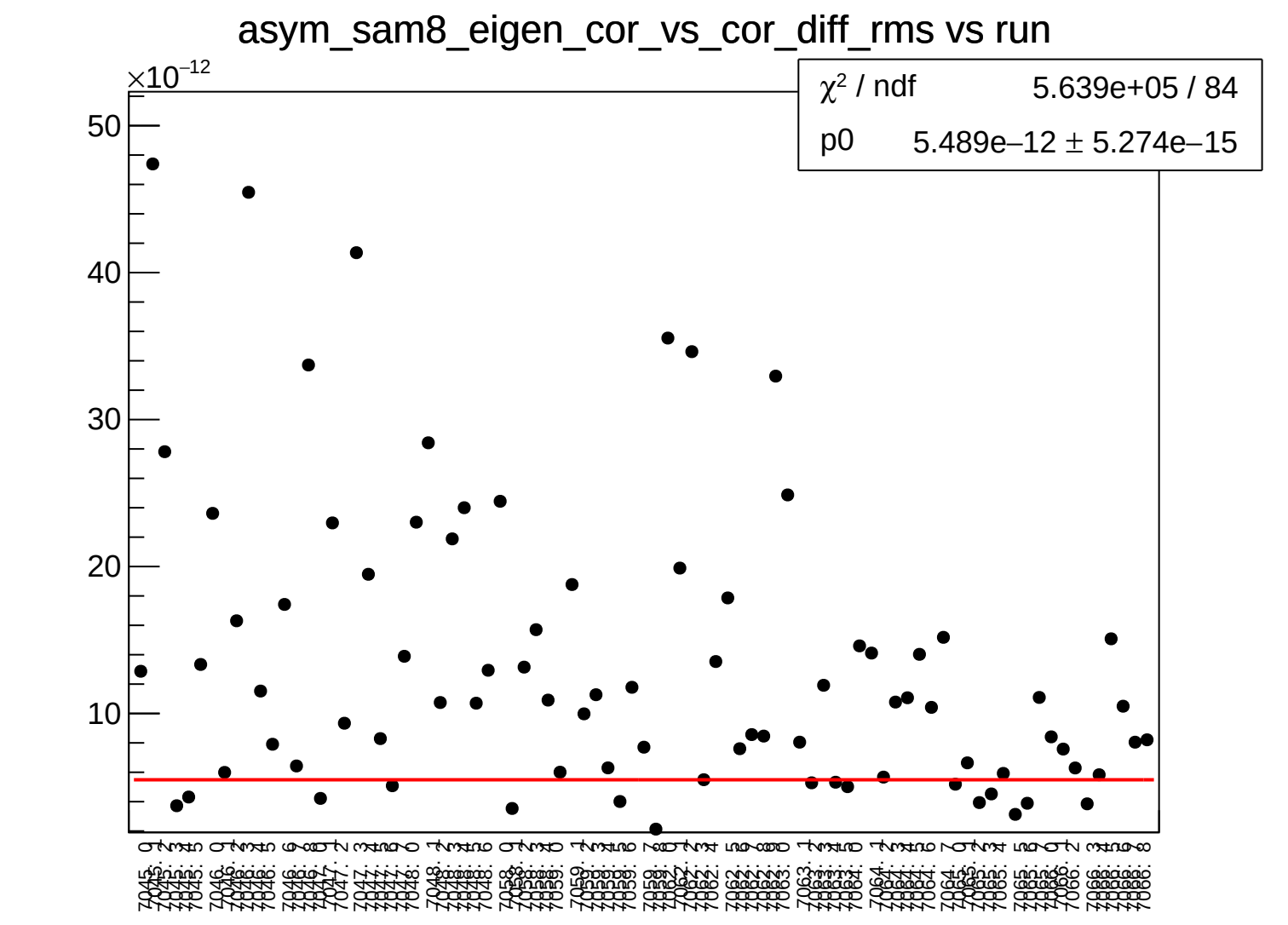

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.486e+05 / 84
p0 23.55 ± 0.01924
100
90
80
70
60
50
40
30
20

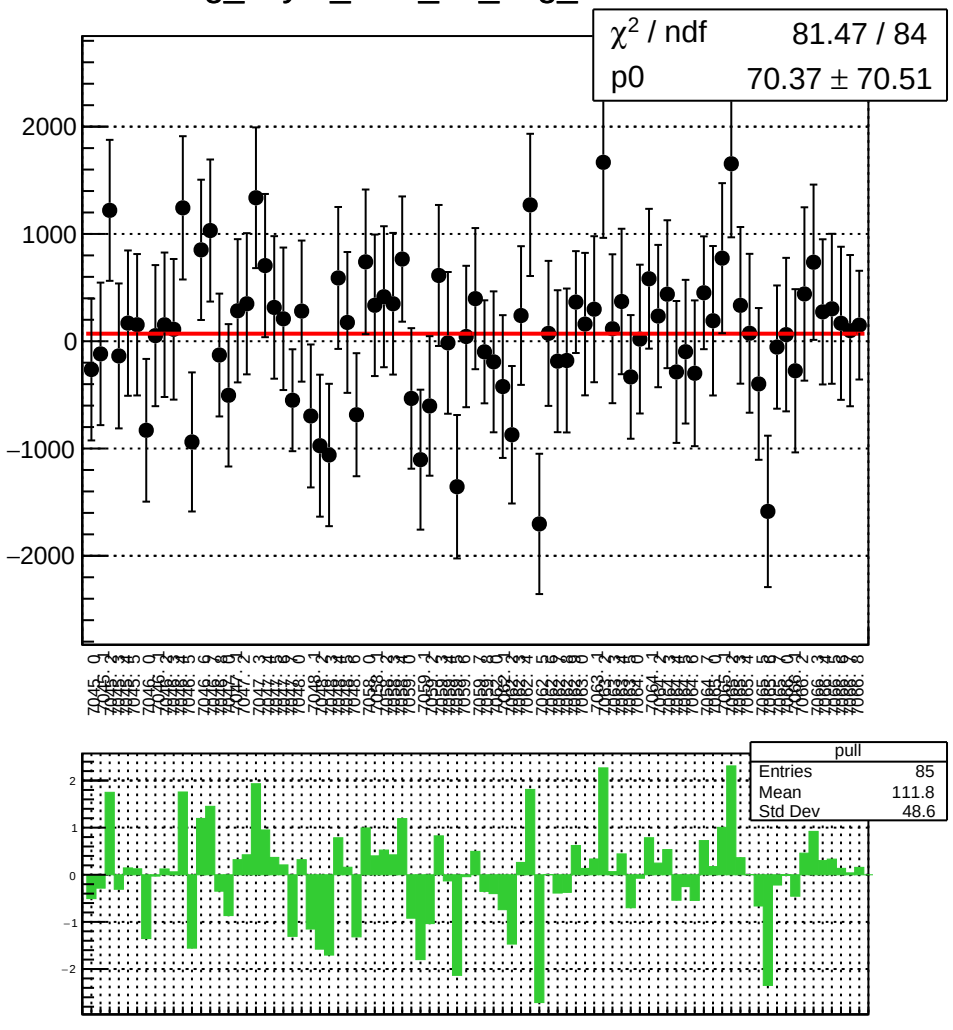

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.08 / 84
p0 0.05294 ± 0.02721
pull
Entries 85
Mean 117
Std Dev 0
pull1D
Entries 85
Mean 0.017
Std Dev 0.9644

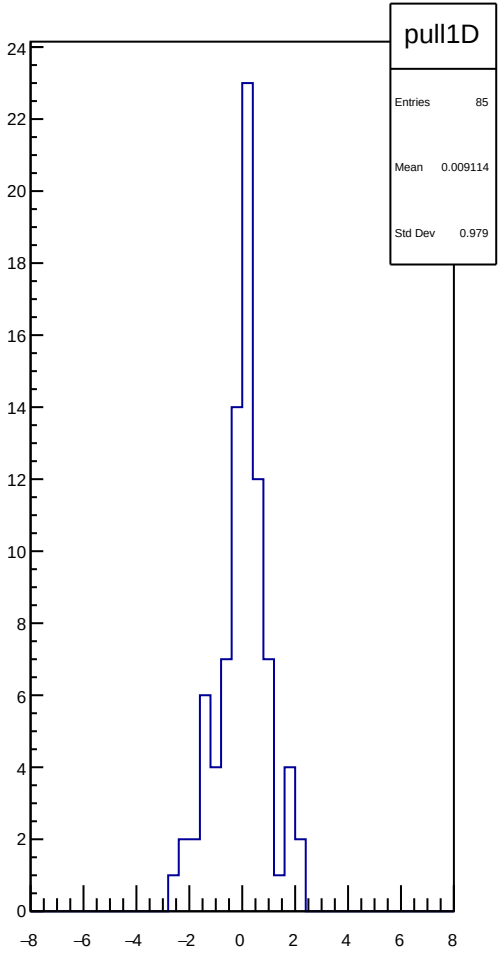

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.486e+05 / 84
p0 23.55 ± 0.01924
100
90
80
70
60
50
40
30
20

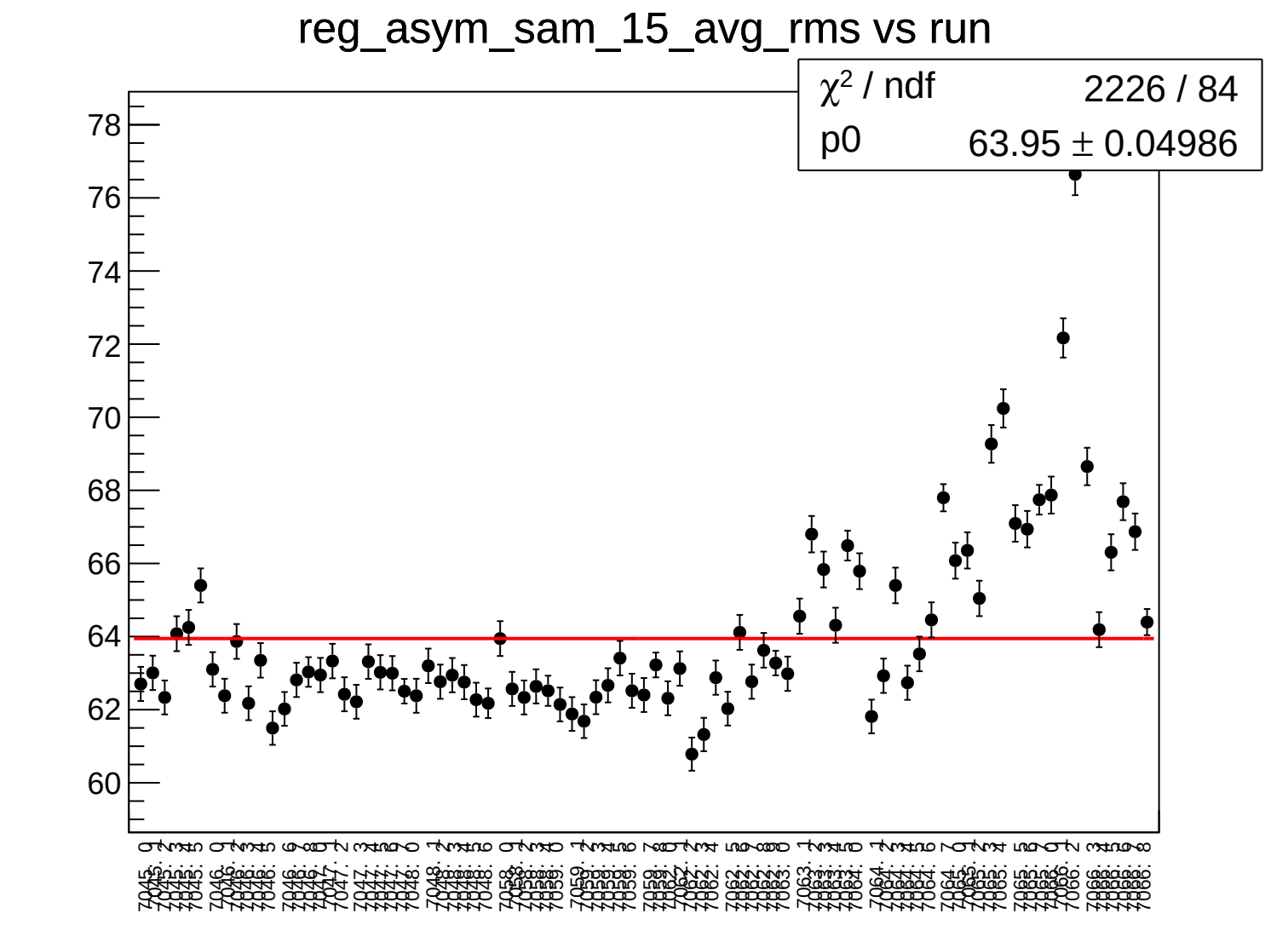

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 84
p0 −6.641e−15 ± 7.458e−15
pull
Entries 85
Mean −409.2
Std Dev 0

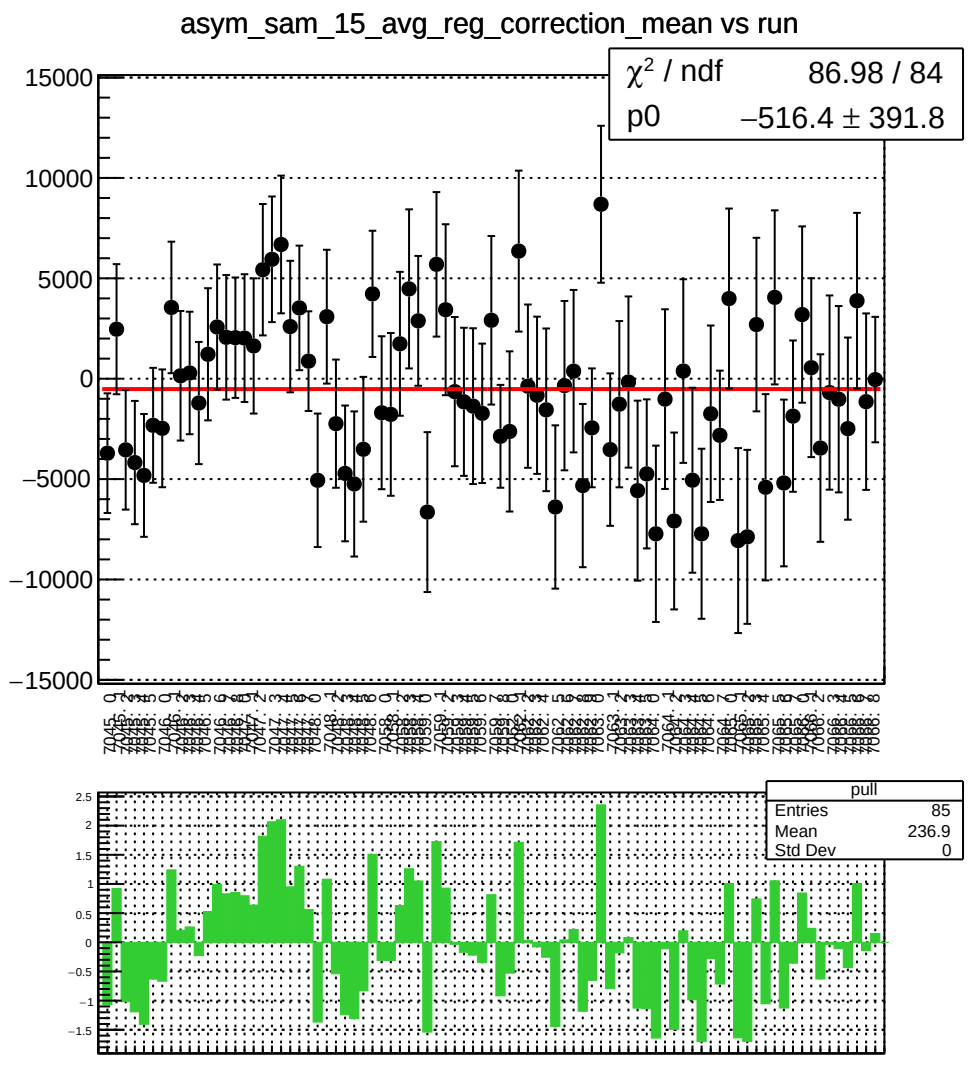

pull1D
Entries 85
Mean −0.005277
Std Dev 1.096

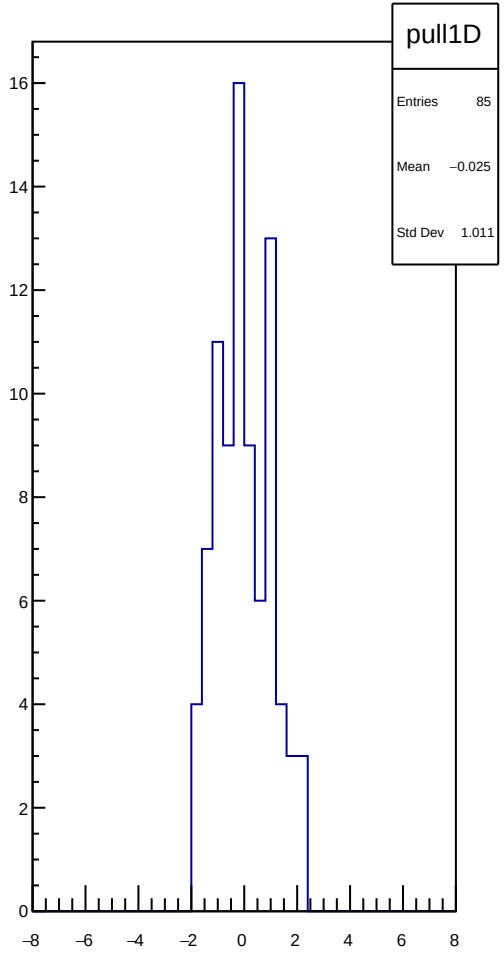

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.639e+05 / 84
p0 5.489e−12 ± 5.274e−15
50
40
30
20
10


reg_asym_sam_15_avg_mean vs run
χ² / ndf 81.47 / 84
p0 70.37 ± 70.51
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 111.8
Std Dev 48.6
2
1
0
−1


pull1D
Entries 85
Mean 0.009114
Std Dev 0.979
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2226 / 84
p0 63.95 ± 0.04986
78
76
74
72
70
68
66
64
62
60


asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 86.98 / 84
p0 −516.4 ± 391.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 236.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 85
Mean −0.025
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
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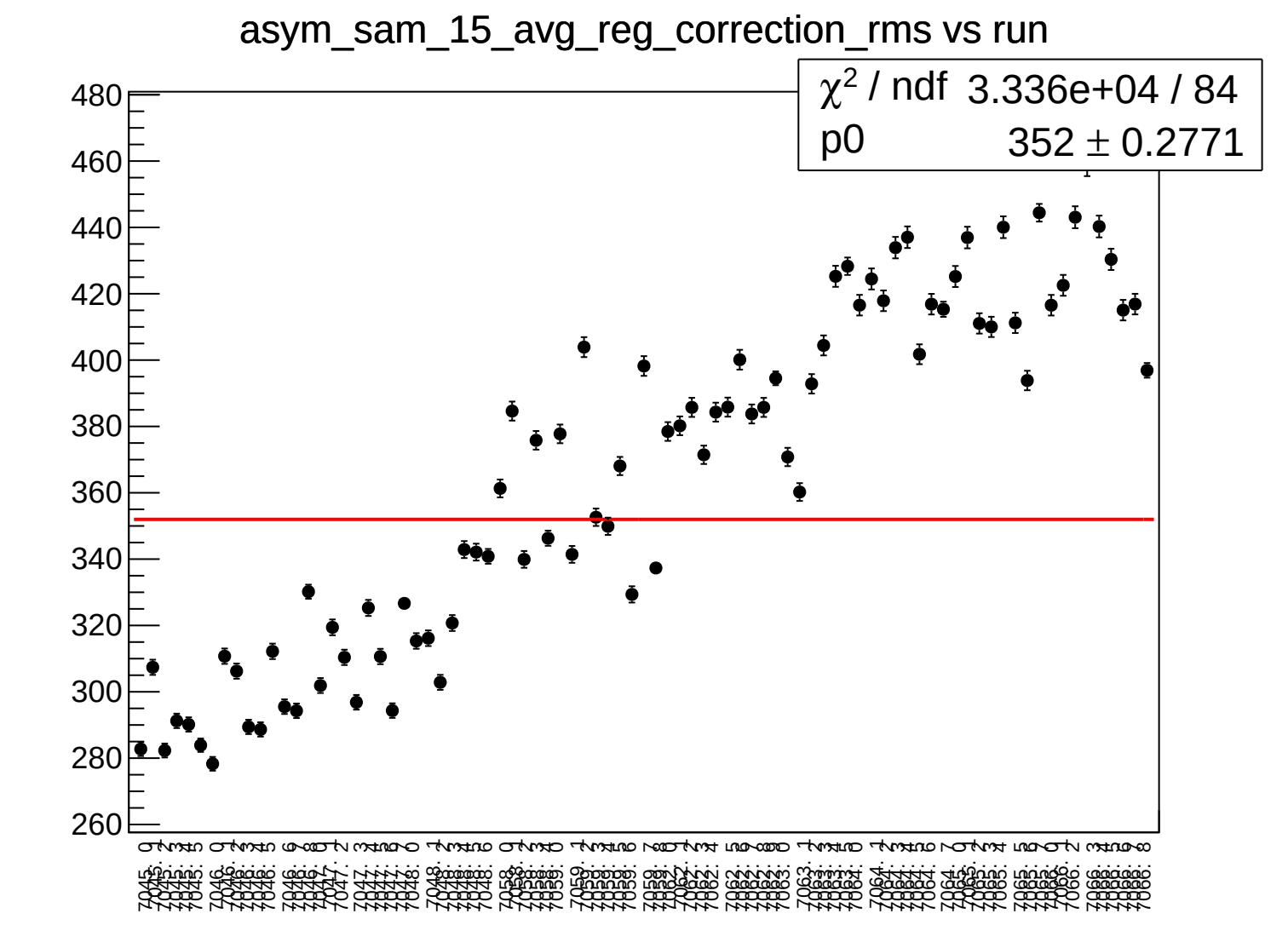
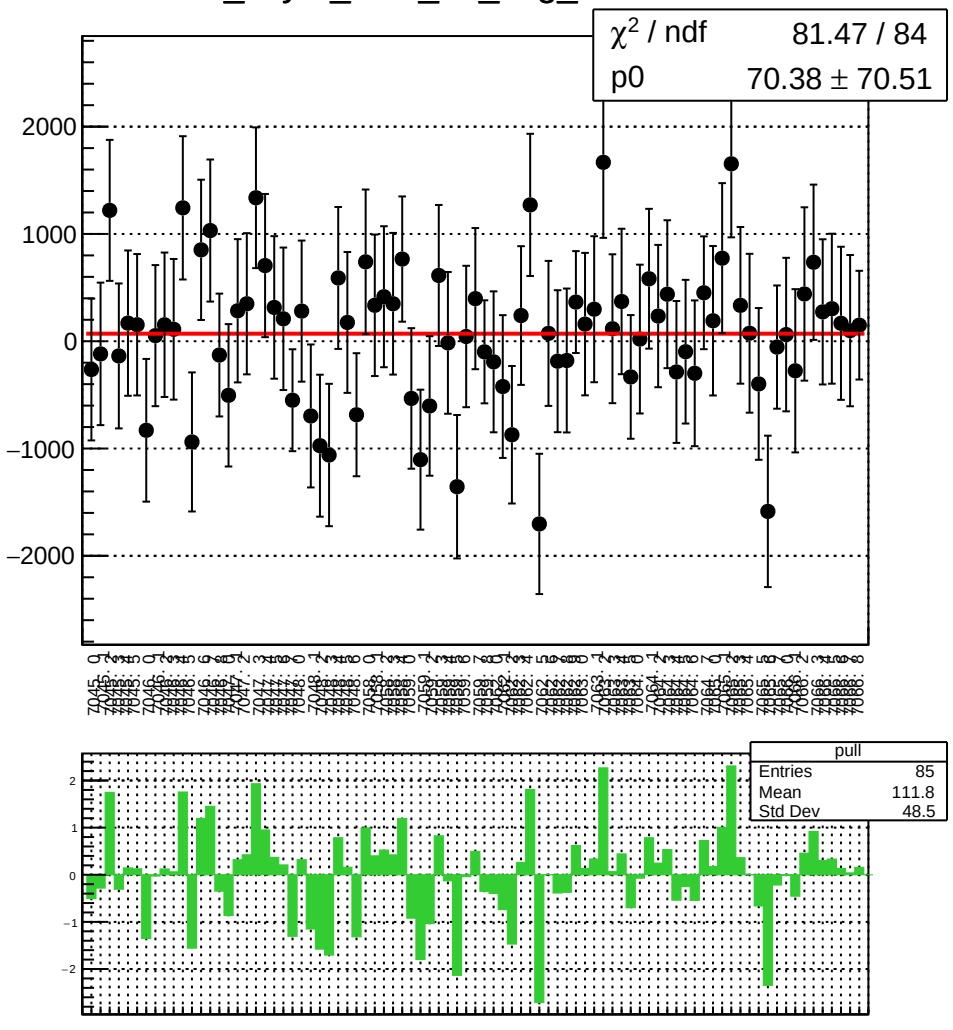
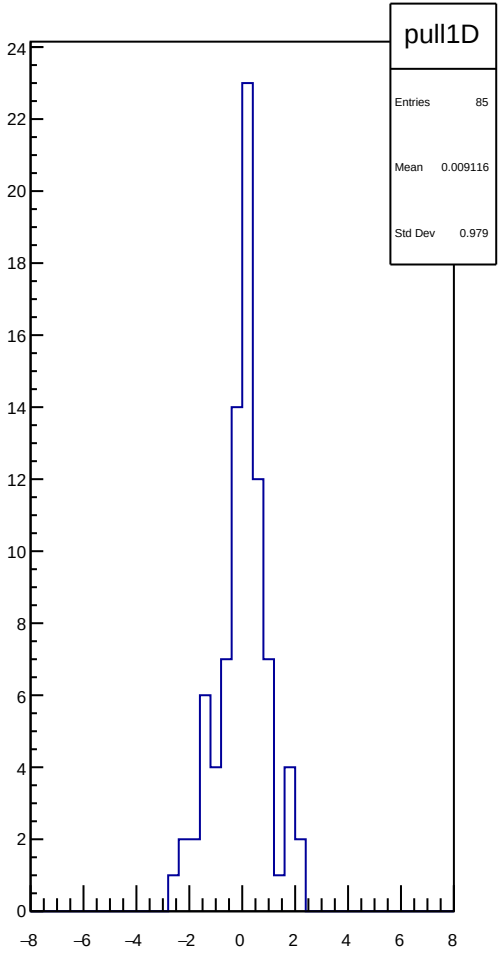
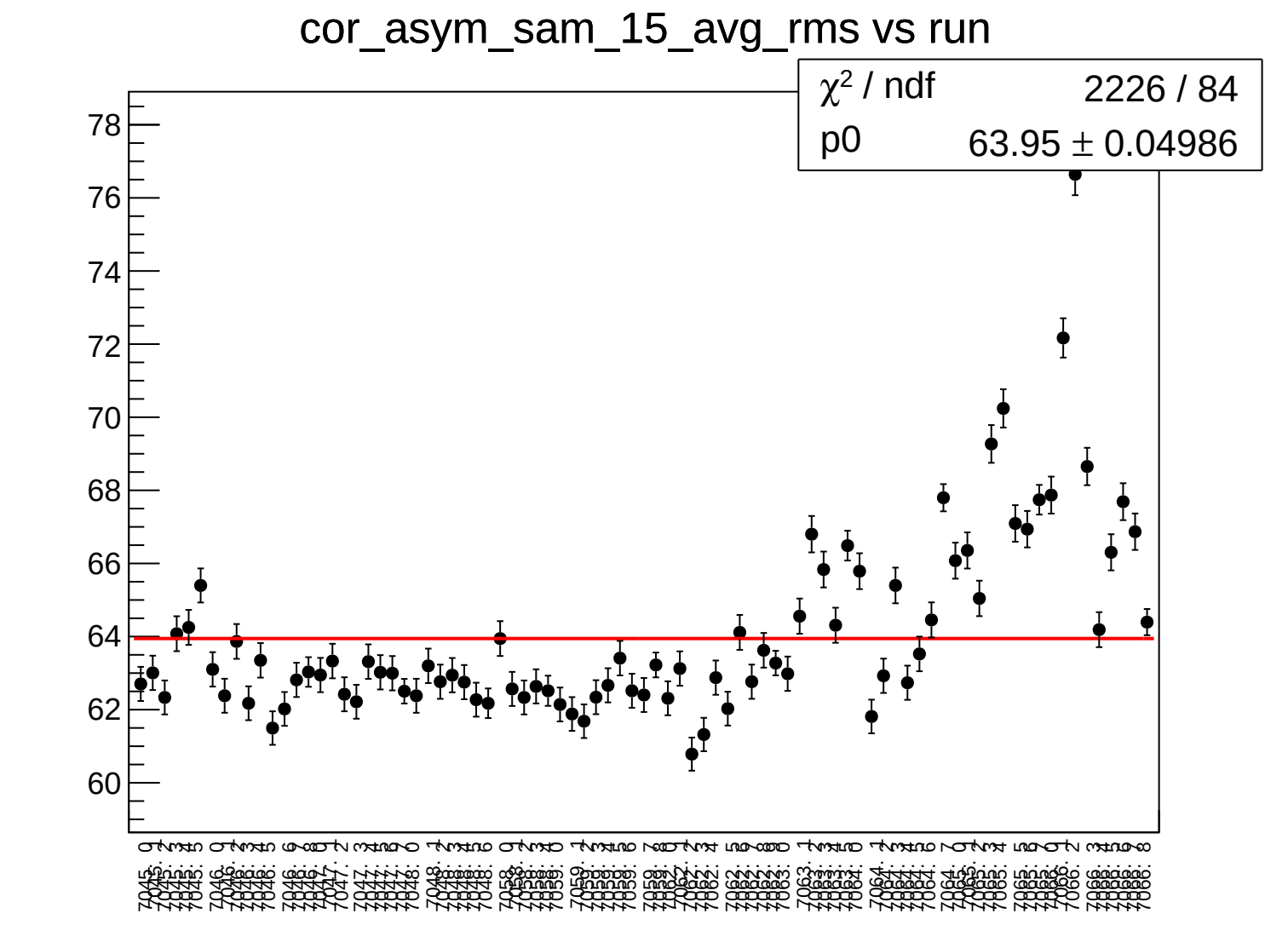
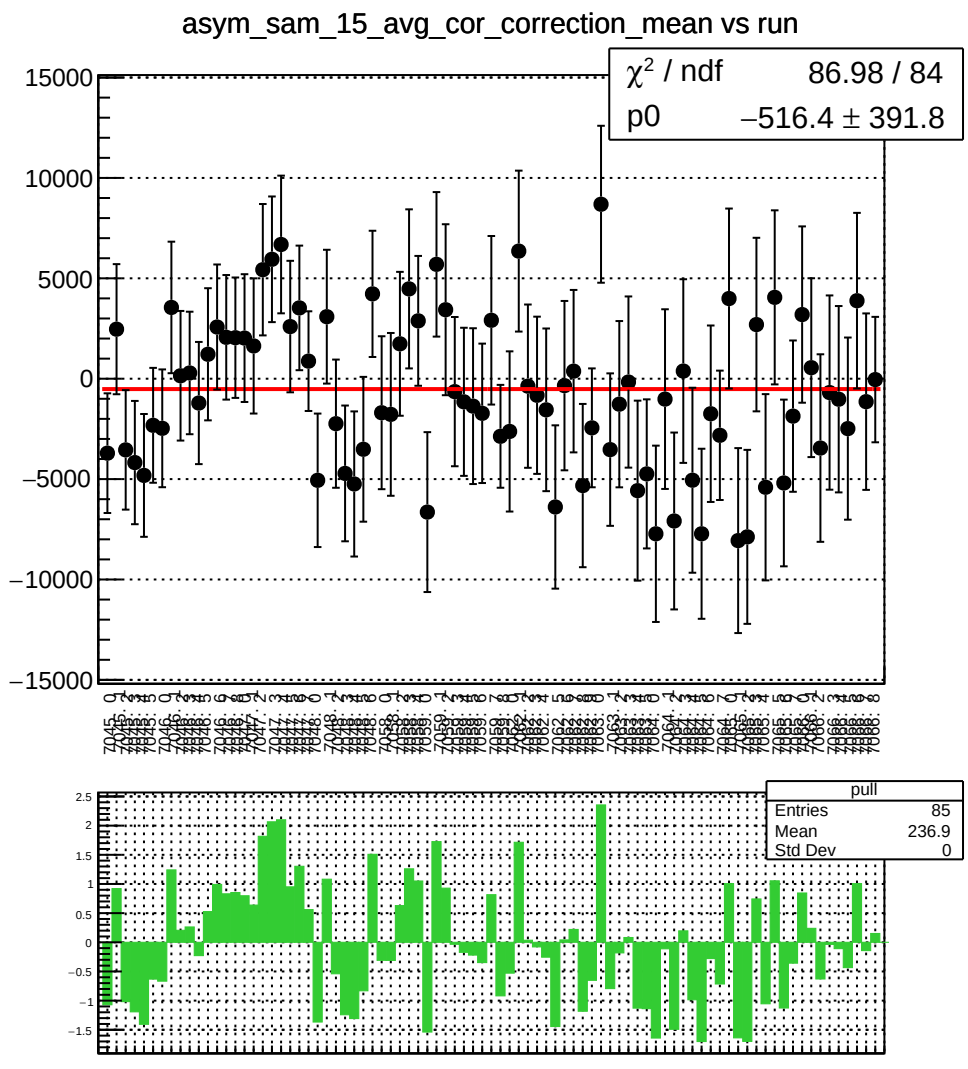
0
2
4
6
8

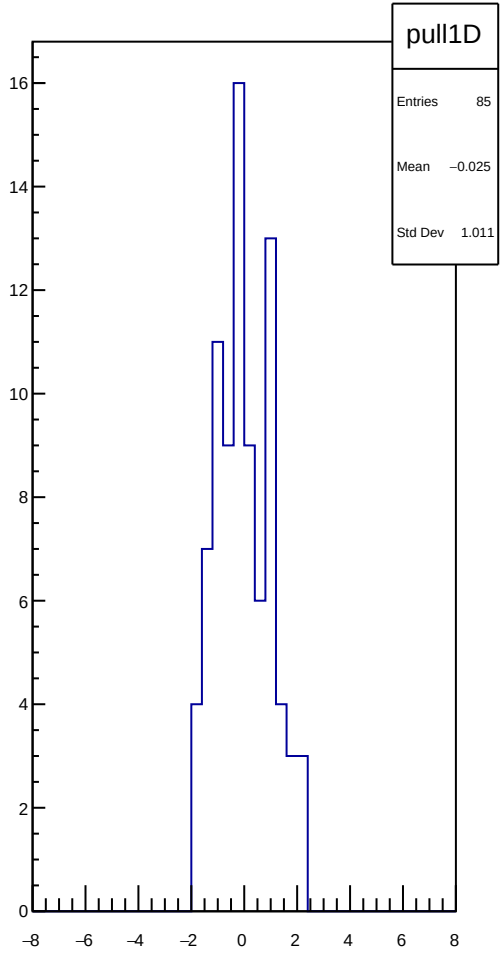

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3.336e+04 / 84
p0 352 ± 0.2771
480
460
440
420
400
380
360
340
320
300
280
260


cor_asym_sam_15_avg_mean vs run
χ² / ndf 81.47 / 84
p0 70.38 ± 70.51
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 111.8
Std Dev 48.5
2
1
0
−1


pull1D
Entries 85
Mean 0.009116
Std Dev 0.979
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2226 / 84
p0 63.95 ± 0.04986
78
76
74
72
70
68
66
64
62
60


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 86.98 / 84
p0 −516.4 ± 391.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 236.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 85
Mean −0.025
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
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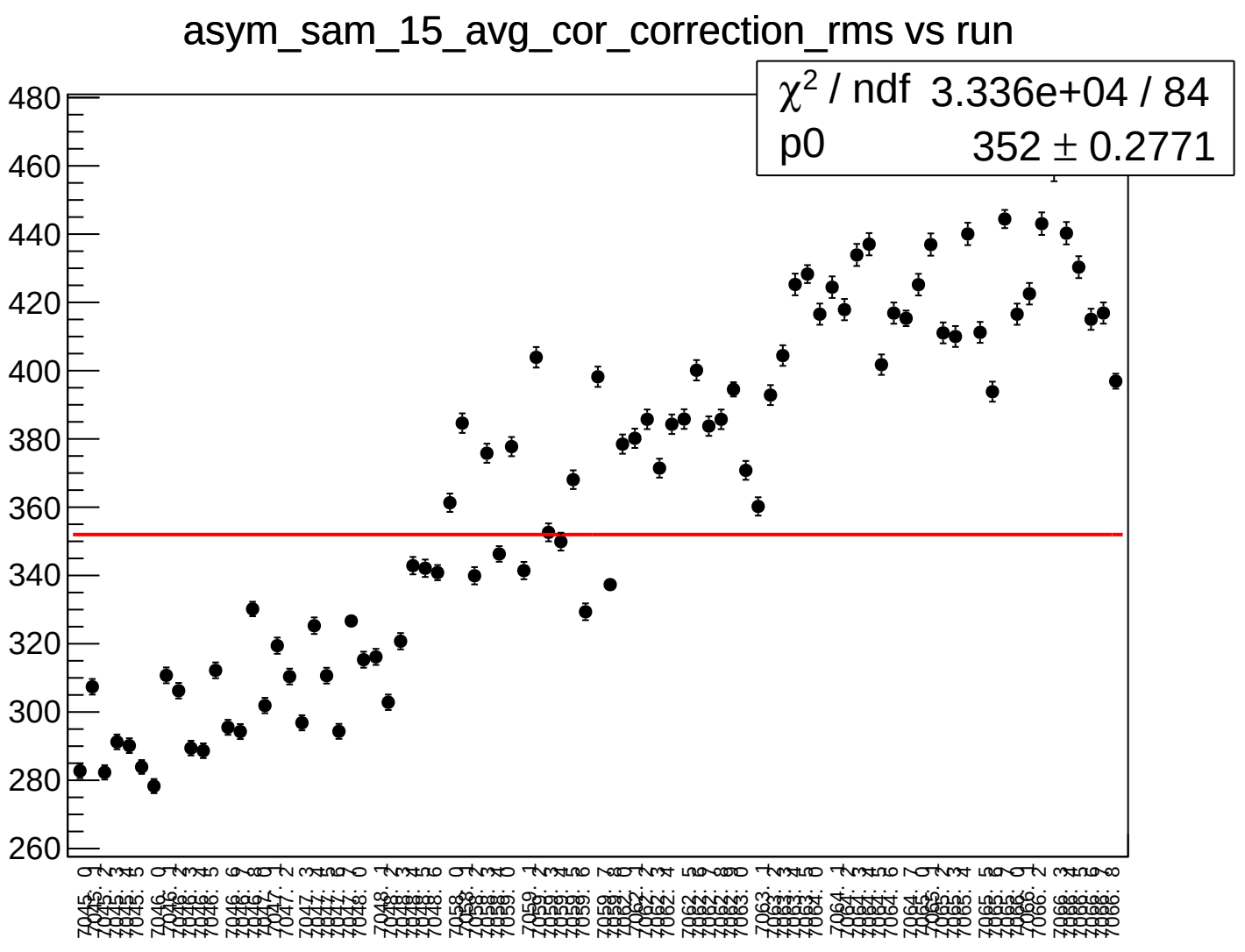
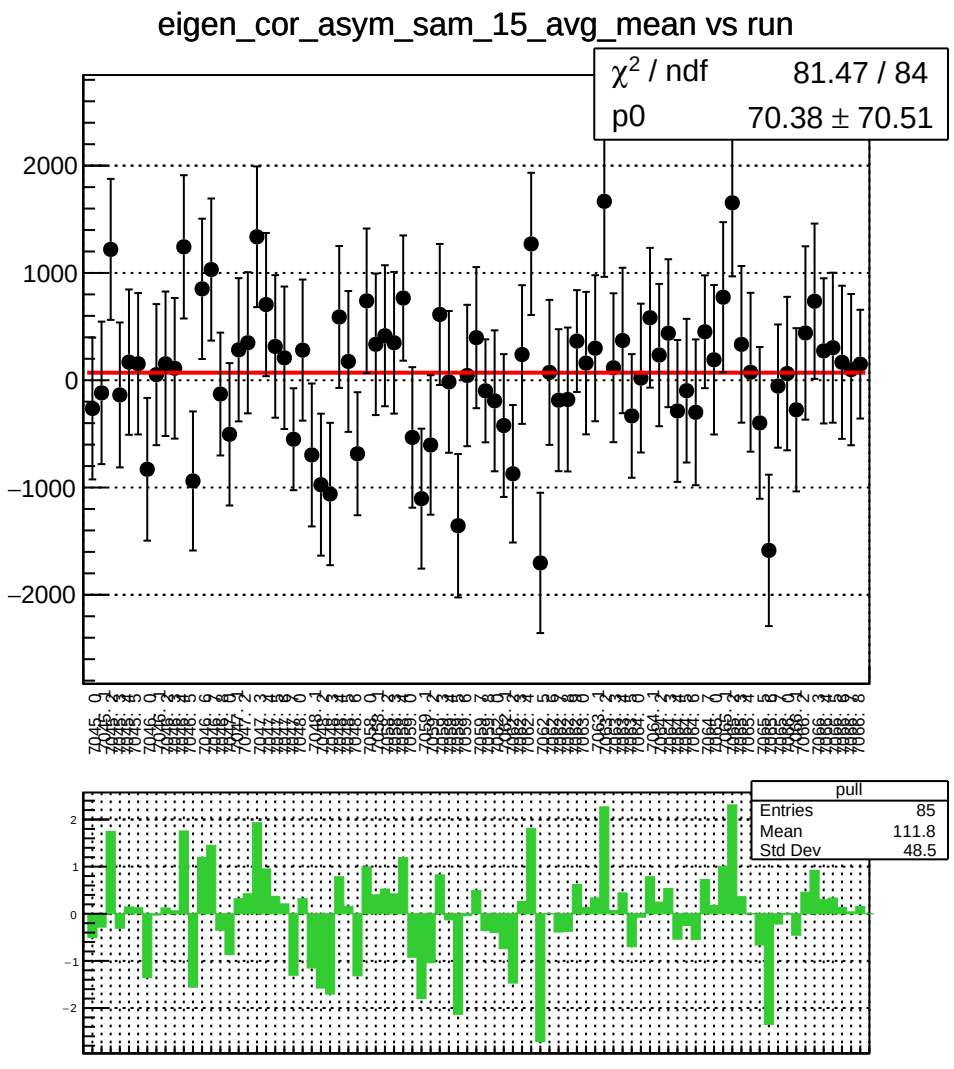
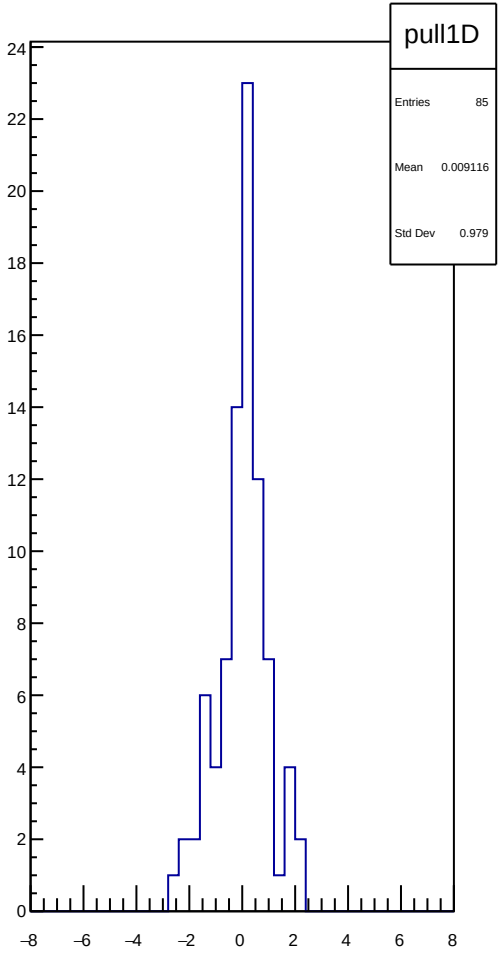
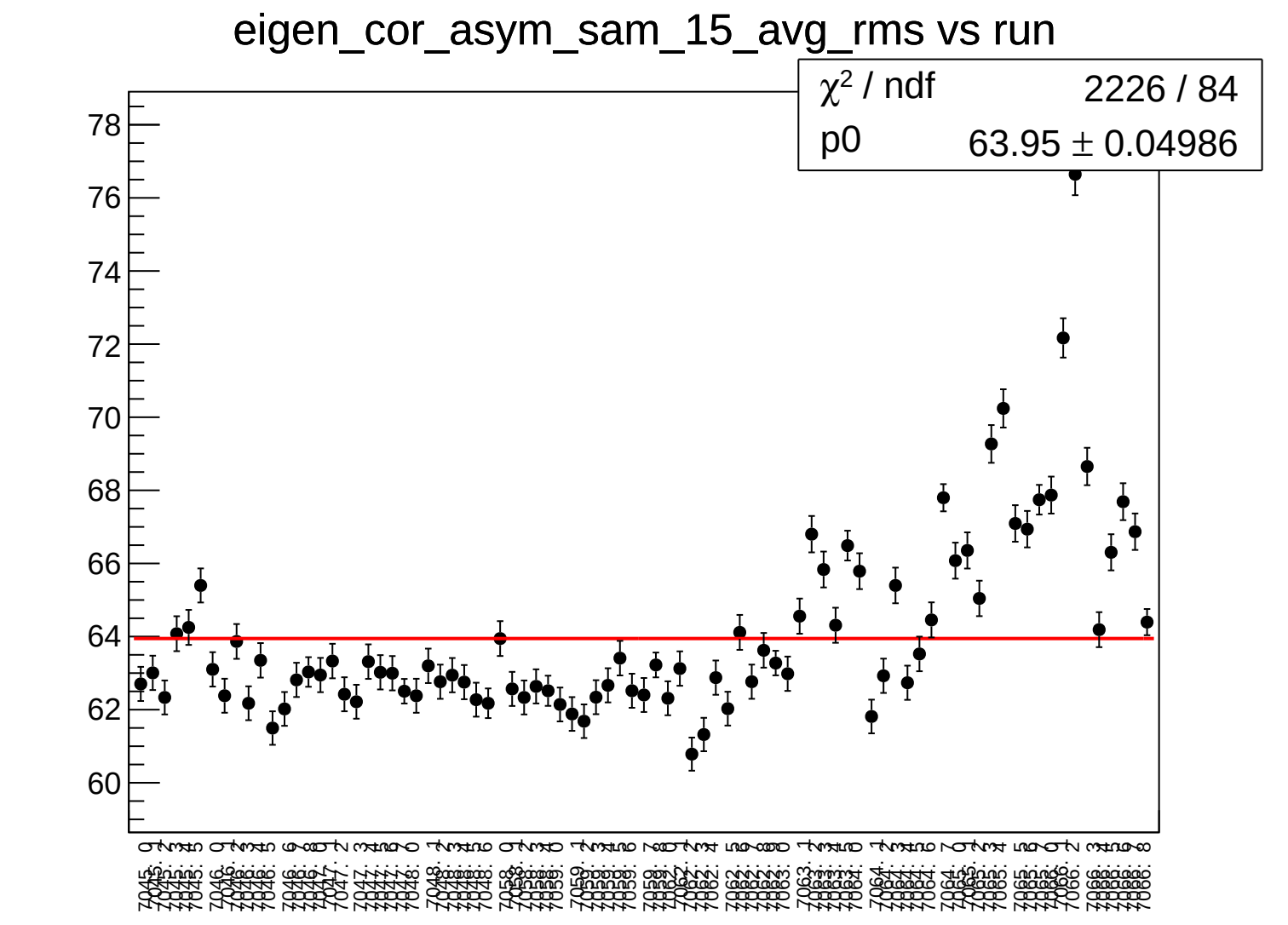
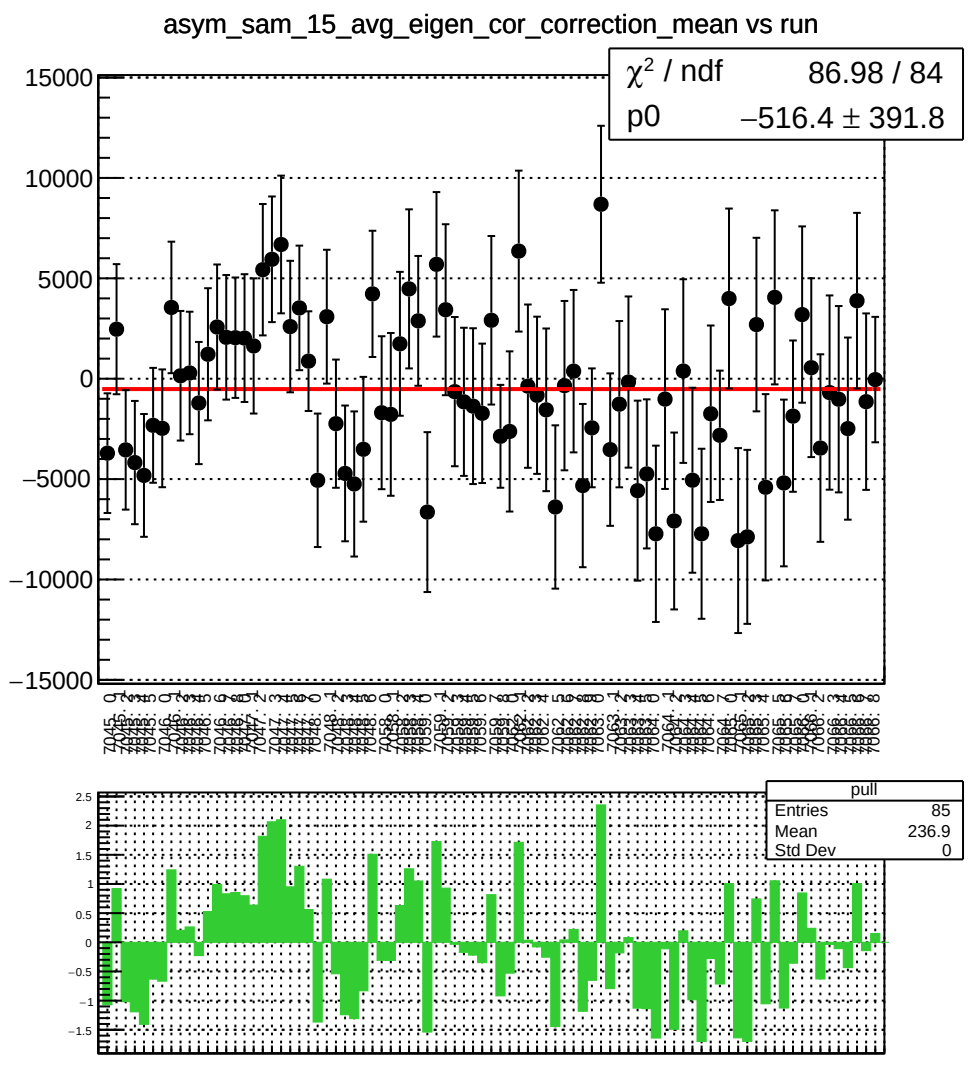
2
4
6
8

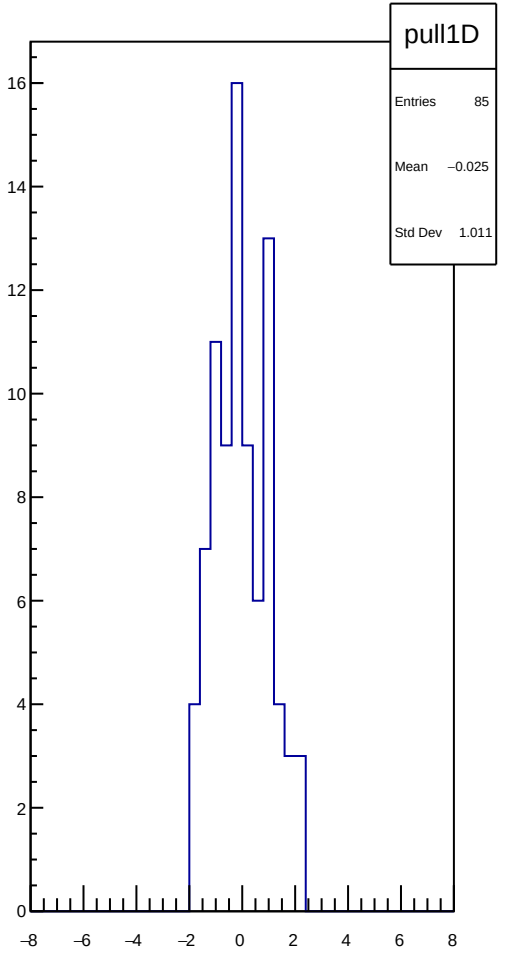

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3.336e+04 / 84
p0 352 ± 0.2771
480
460
440
420
400
380
360
340
320
300
280
260


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 81.47 / 84
p0 70.38 ± 70.51
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 111.8
Std Dev 48.5
2
1
0
−1


pull1D
Entries 85
Mean 0.009116
Std Dev 0.979
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2226 / 84
p0 63.95 ± 0.04986
78
76
74
72
70
68
66
64
62
60


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.98 / 84
p0 −516.4 ± 391.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 236.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 85
Mean −0.025
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
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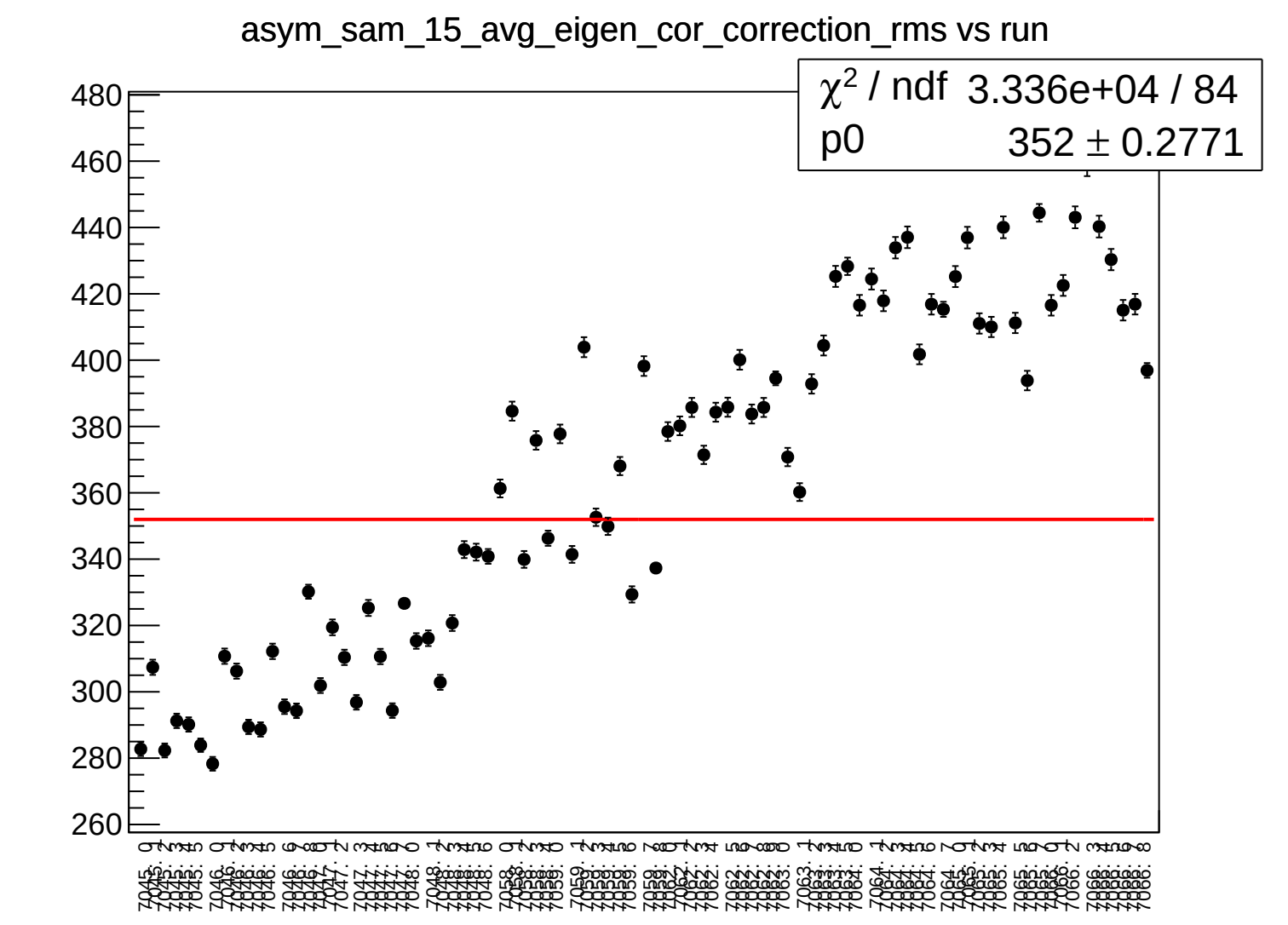
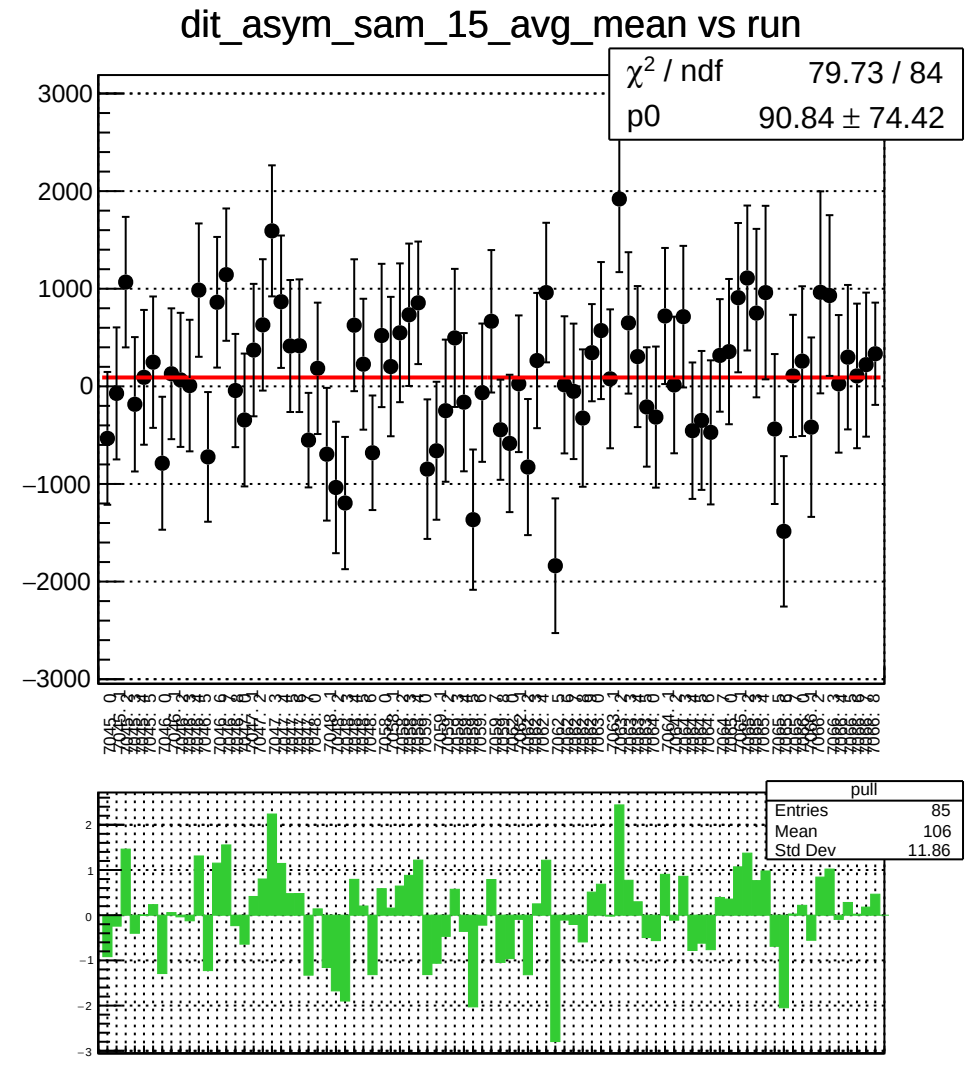
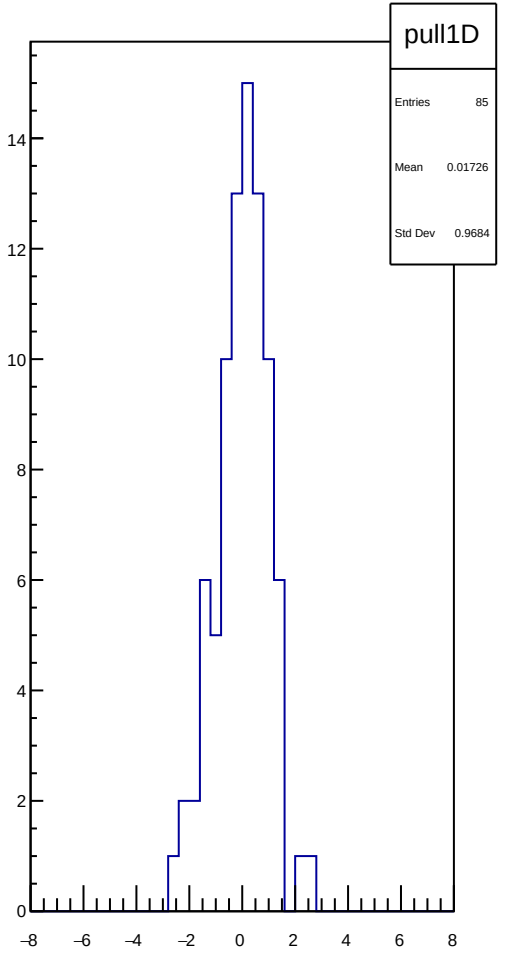
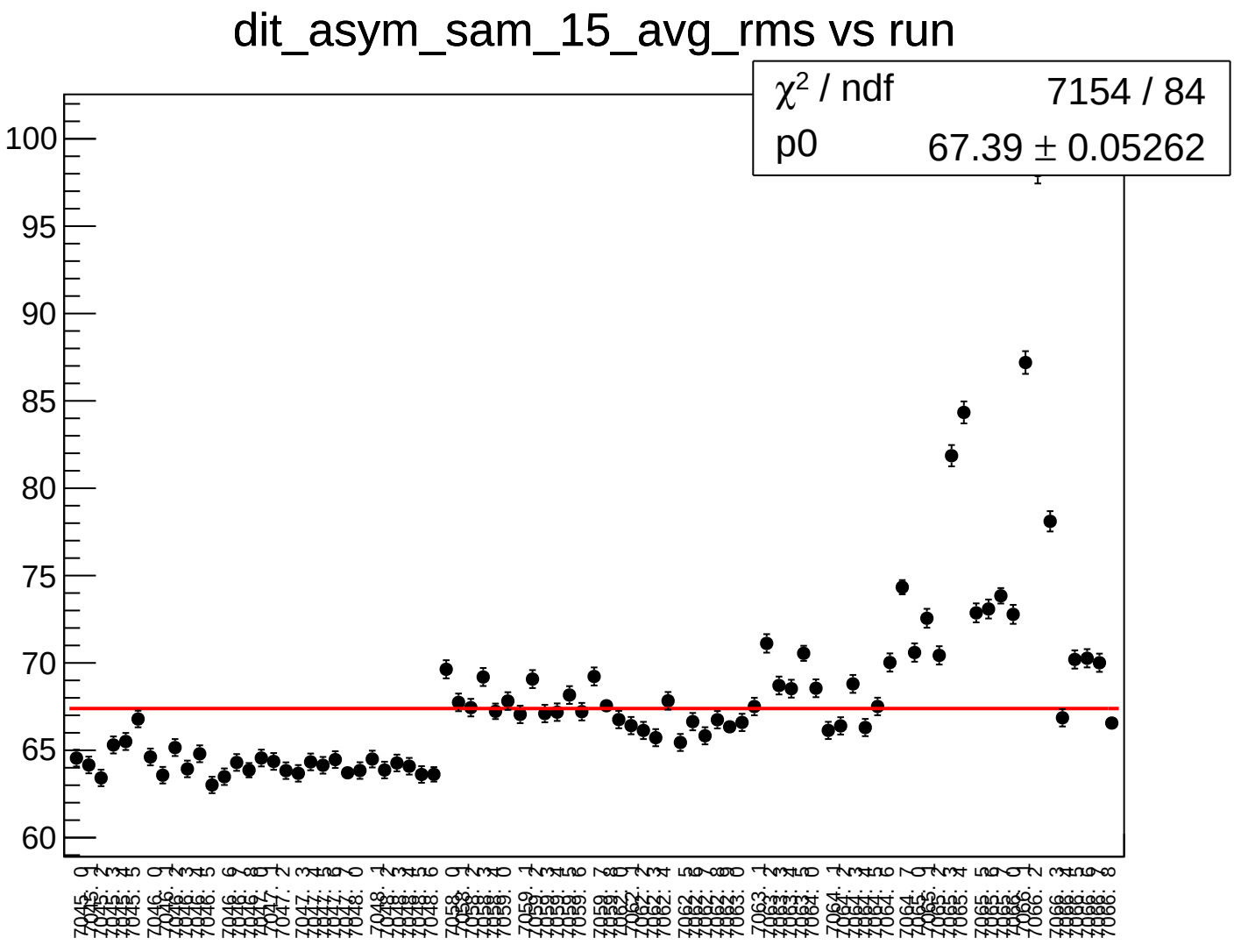
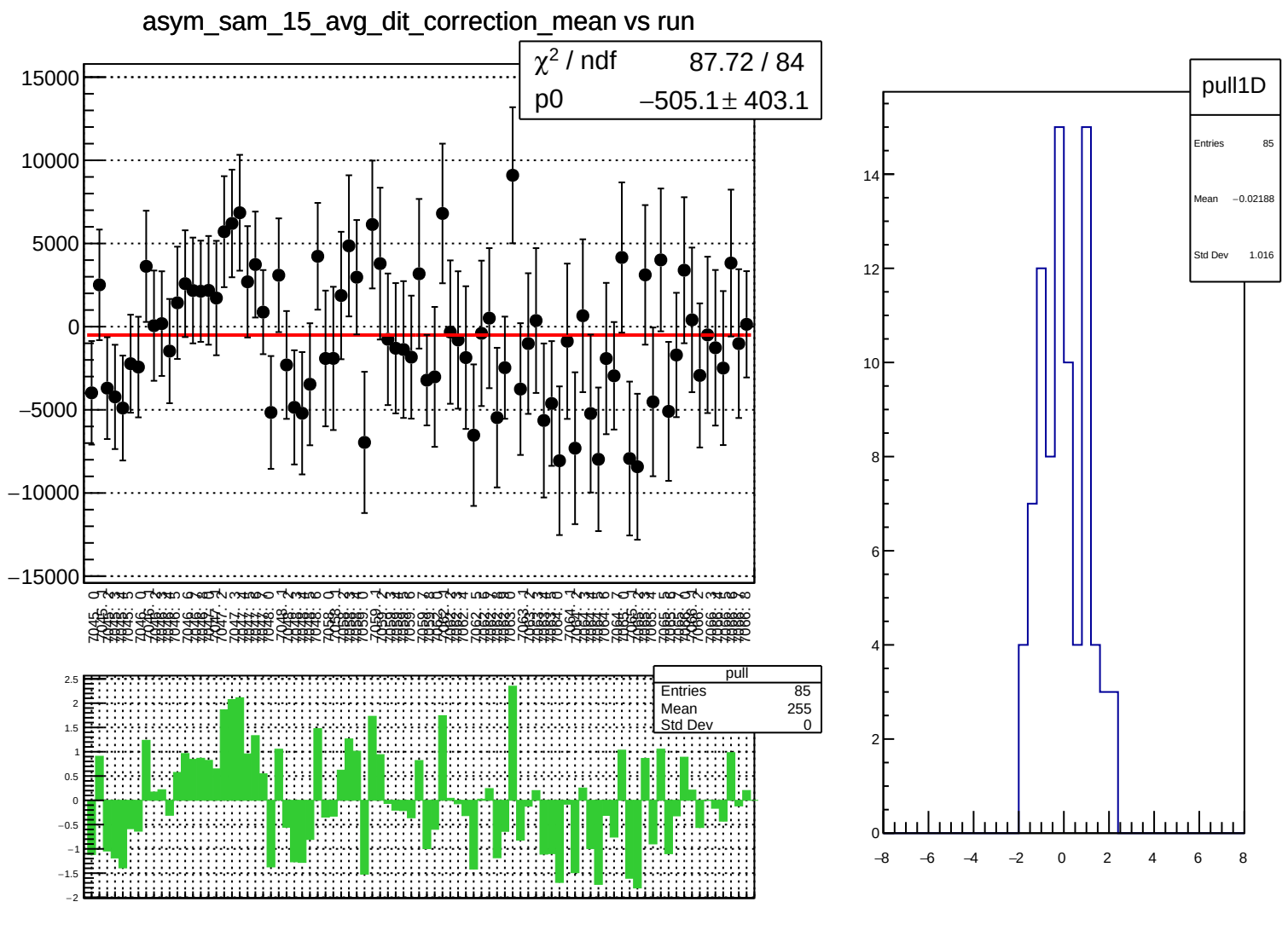
2
4
6
8

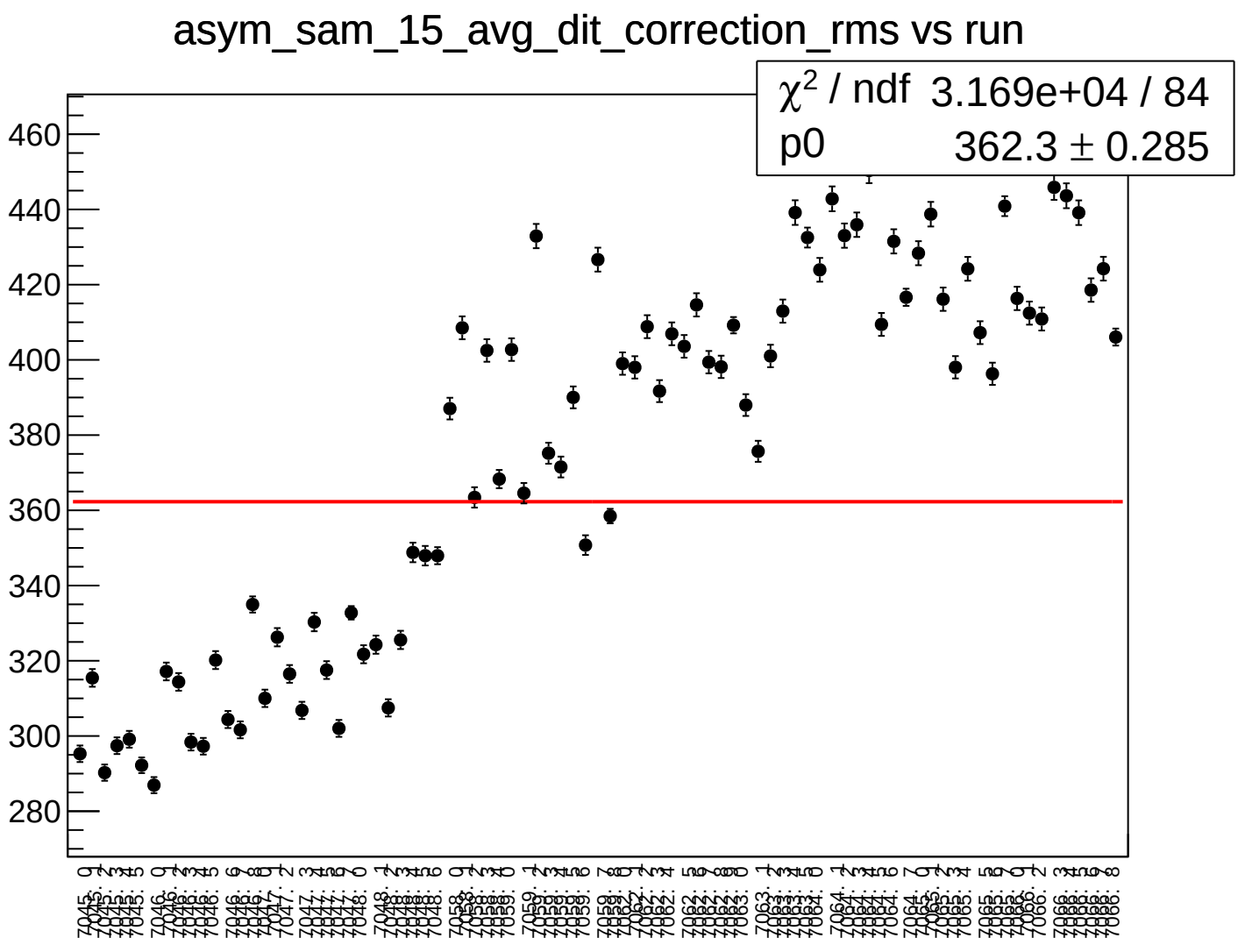

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.336e+04 / 84
p0 352 ± 0.2771
480
460
440
420
400
380
360
340
320
300
280
260

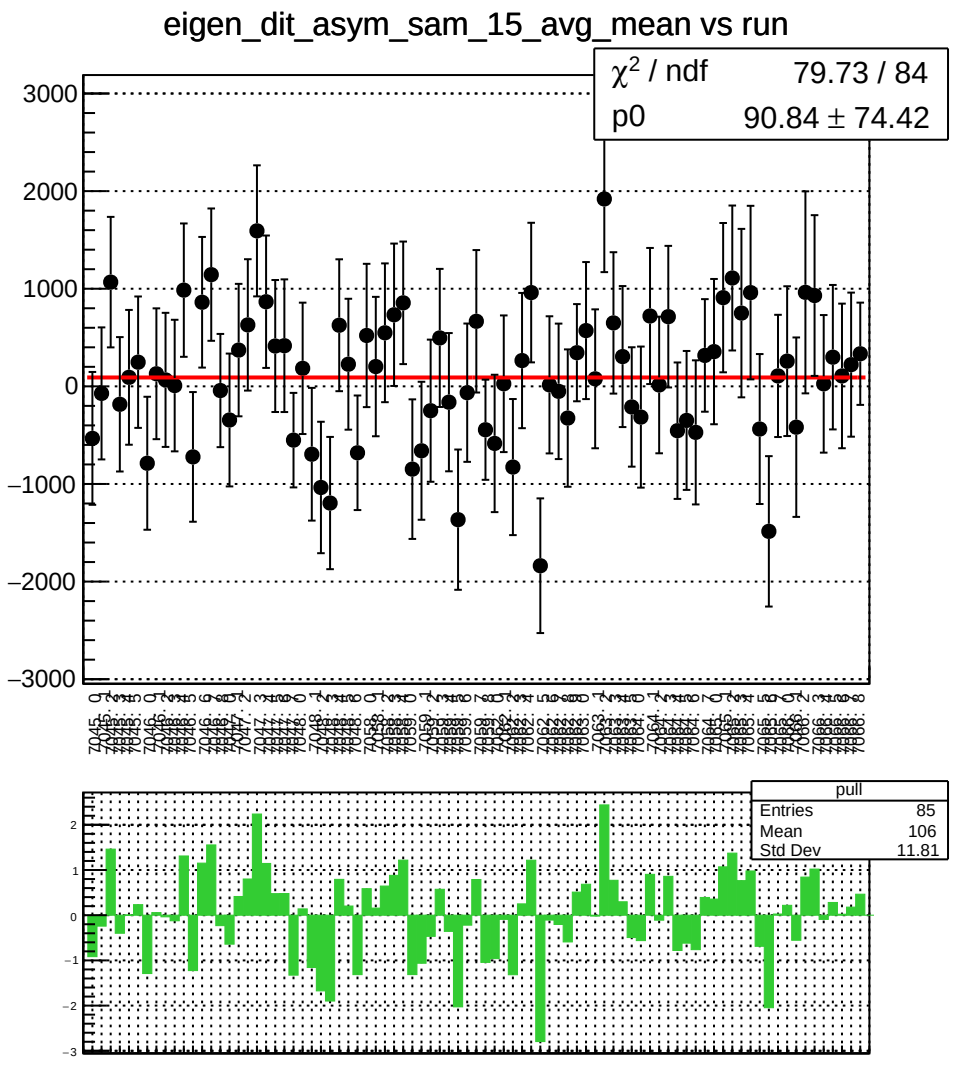

dit_asym_sam_15_avg_mean vs run
χ² / ndf 79.73 / 84
p0 90.84 ± 74.42
pull
Entries 85
Mean 106
Std Dev 11.86

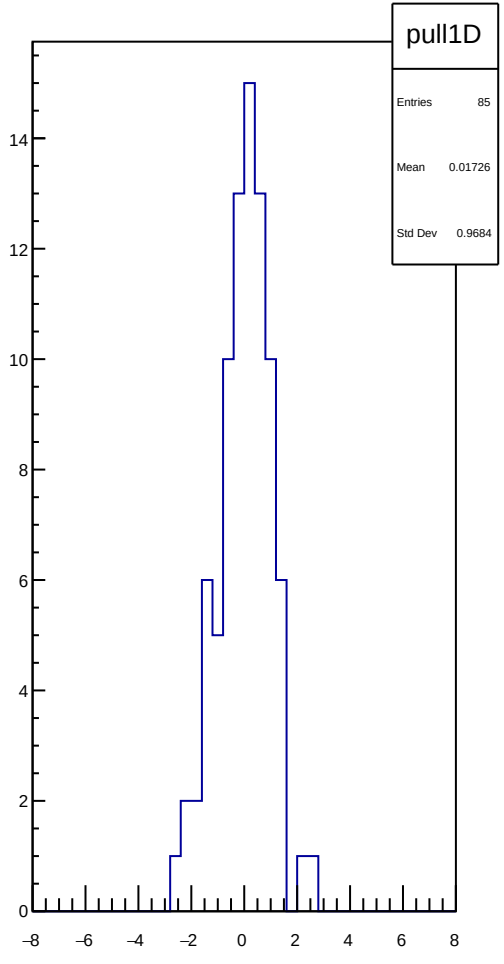

pull1D
Entries 85
Mean 0.01726
Std Dev 0.9684

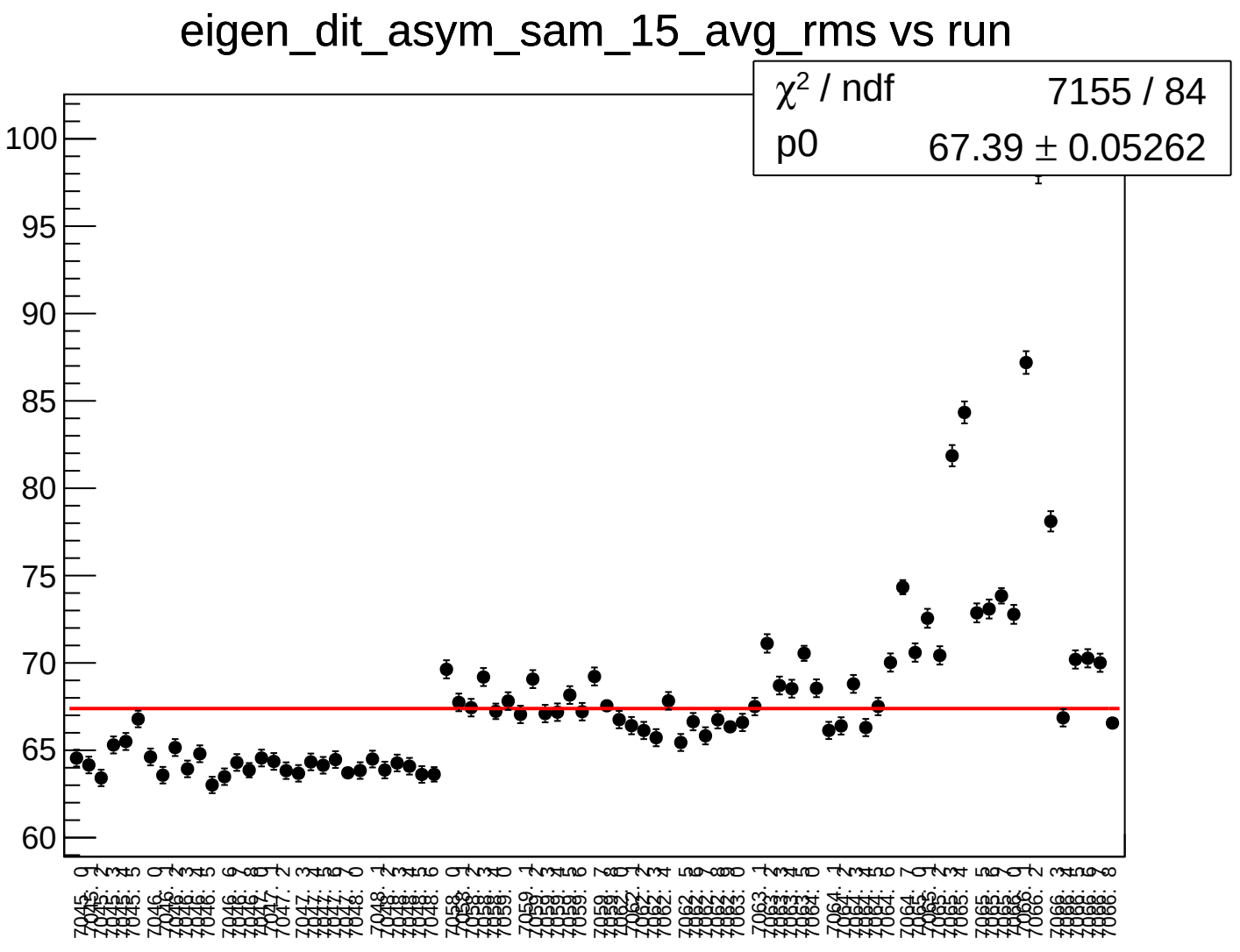

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 7154 / 84
p0 67.39 ± 0.05262
100
95
90
85
80
75
70
65
60

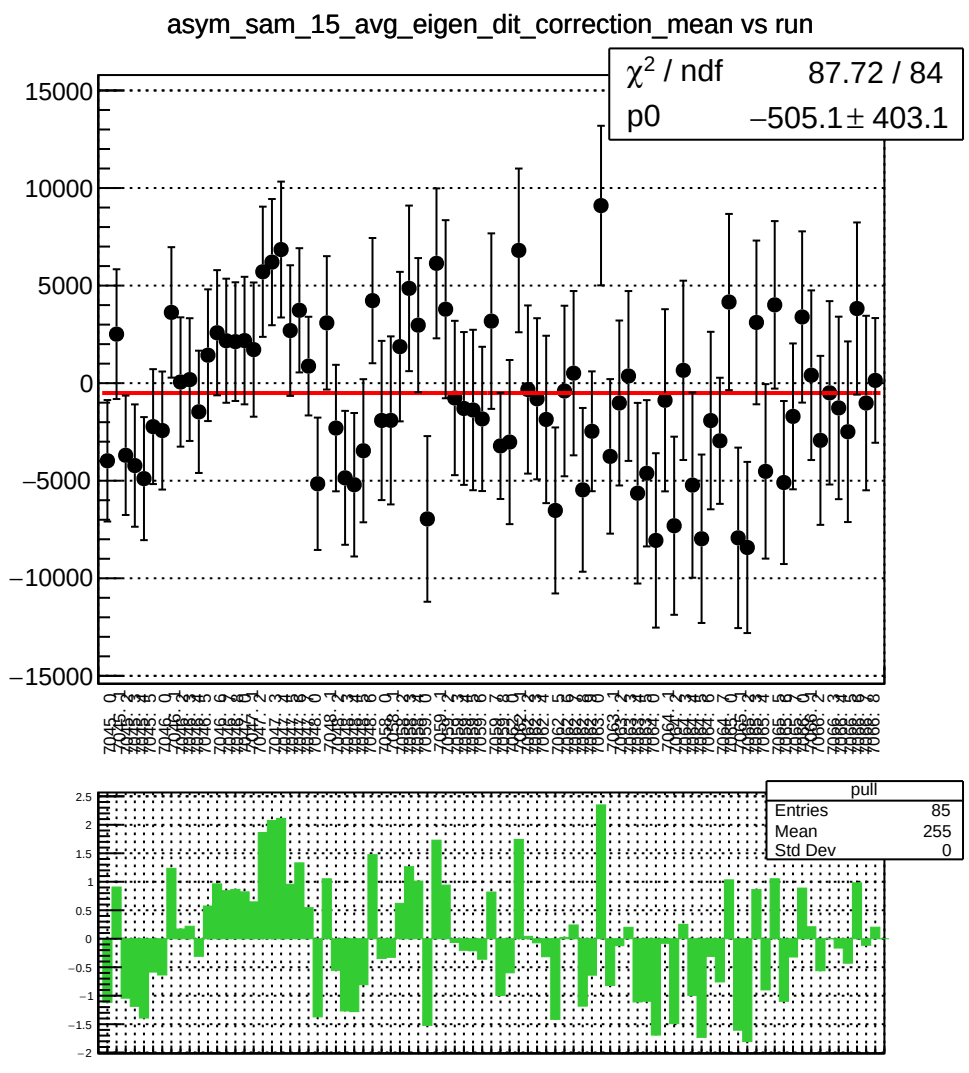

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 87.72 / 84
p0 −505.1 ± 403.1
pull
Entries 85
Mean 255
Std Dev 0
pull1D
Entries 85
Mean −0.02188
Std Dev 1.016

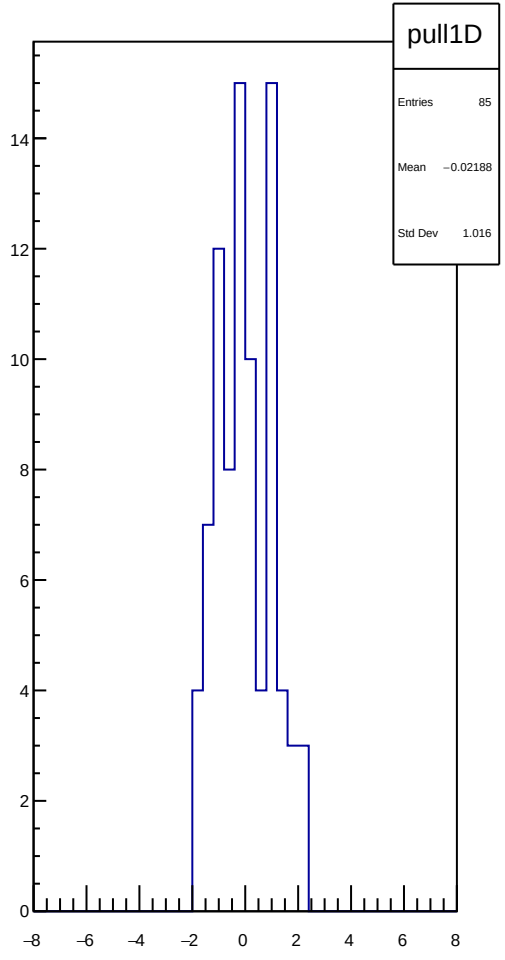

asym_sam_15_avg_dit_correction_rms vs run
χ^2 / ndf 3.169e+04 / 84
p0 362.3 ± 0.285
460
440
420
400
380
360
340
320
300
280

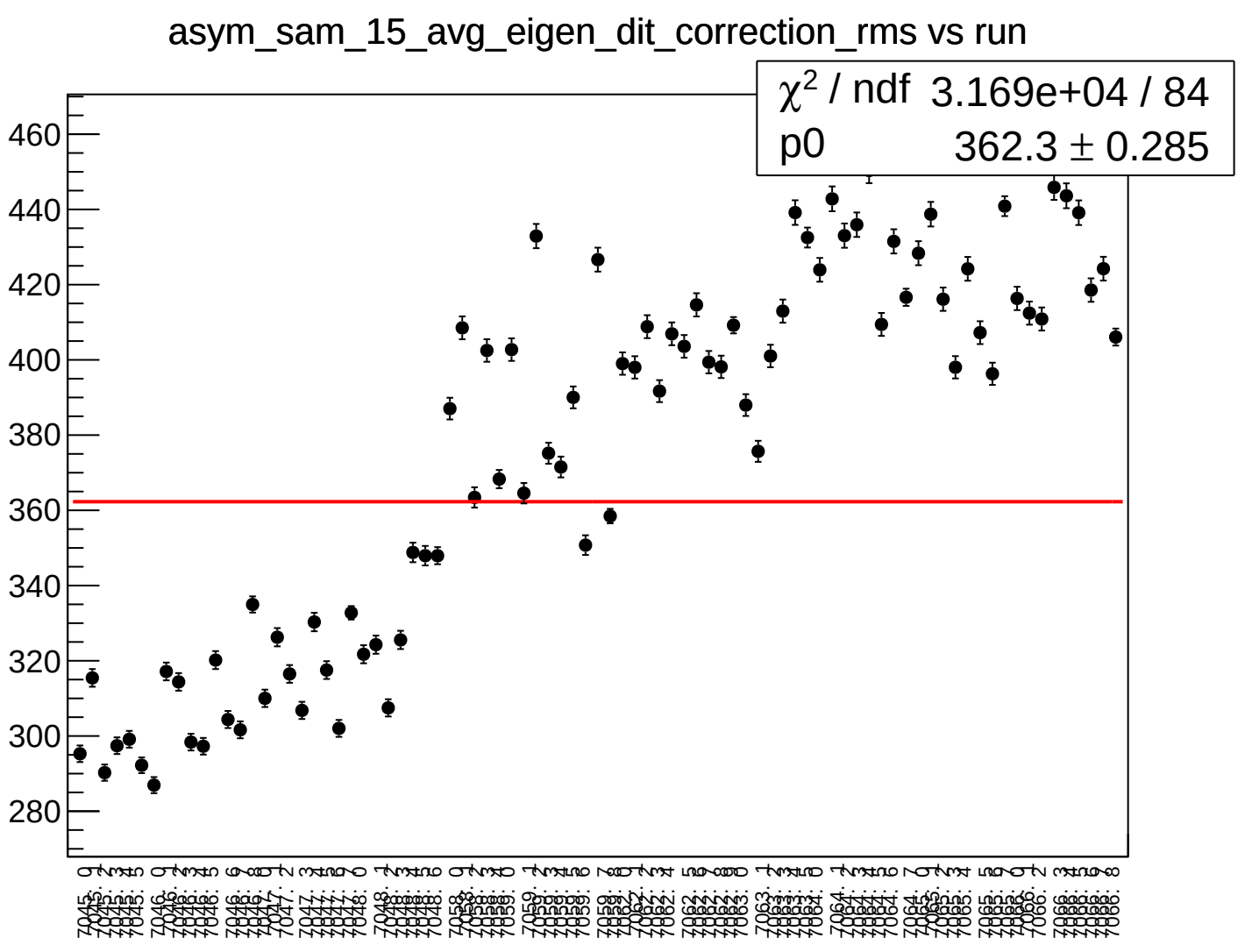

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 79.73 / 84
p0 90.84 ± 74.42
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 106
Std Dev 11.81
2
1
0
−1
−2
−3

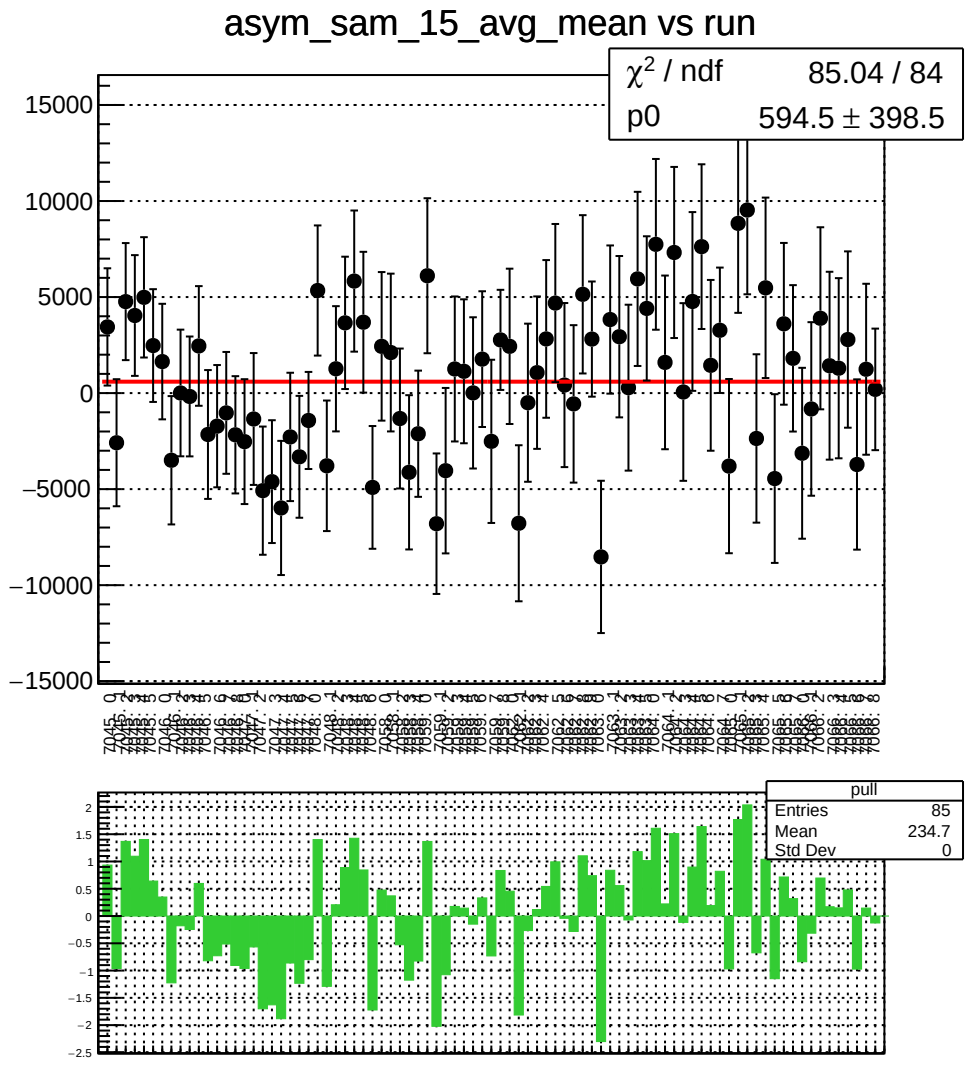

pull1D
Entries 85
Mean 0.01726
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

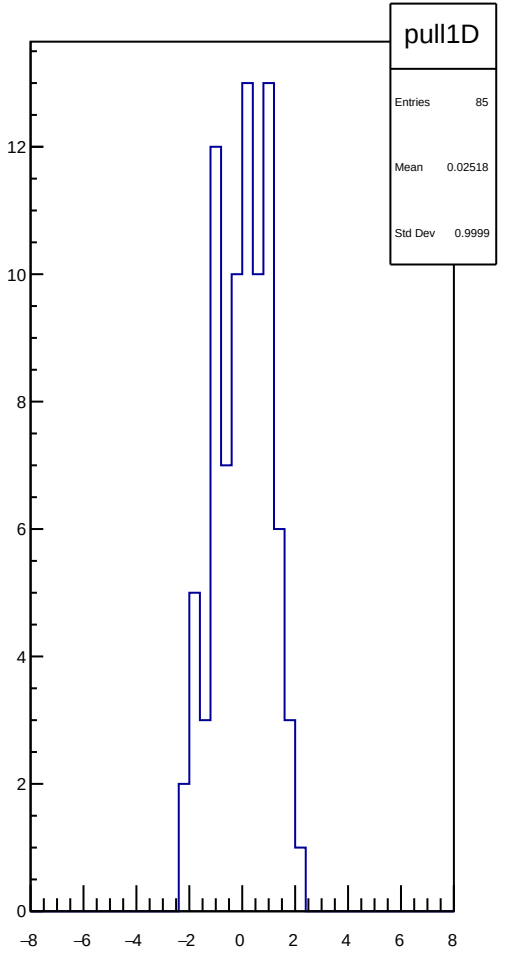

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 7155 / 84
p0 67.39 ± 0.05262
100
95
90
85
80
75
70
65
60

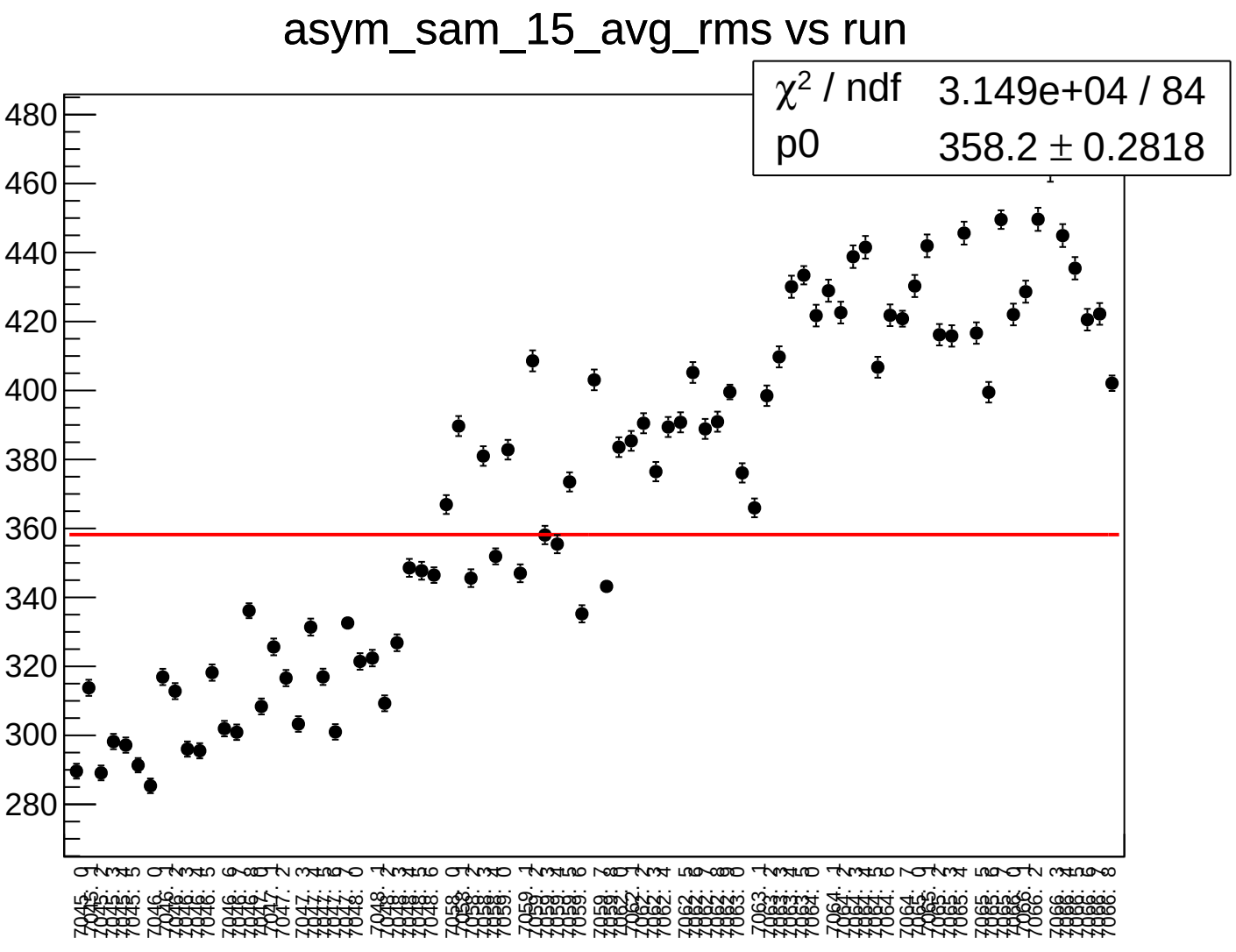

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.72 / 84
p0 −505.1 ± 403.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 255
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

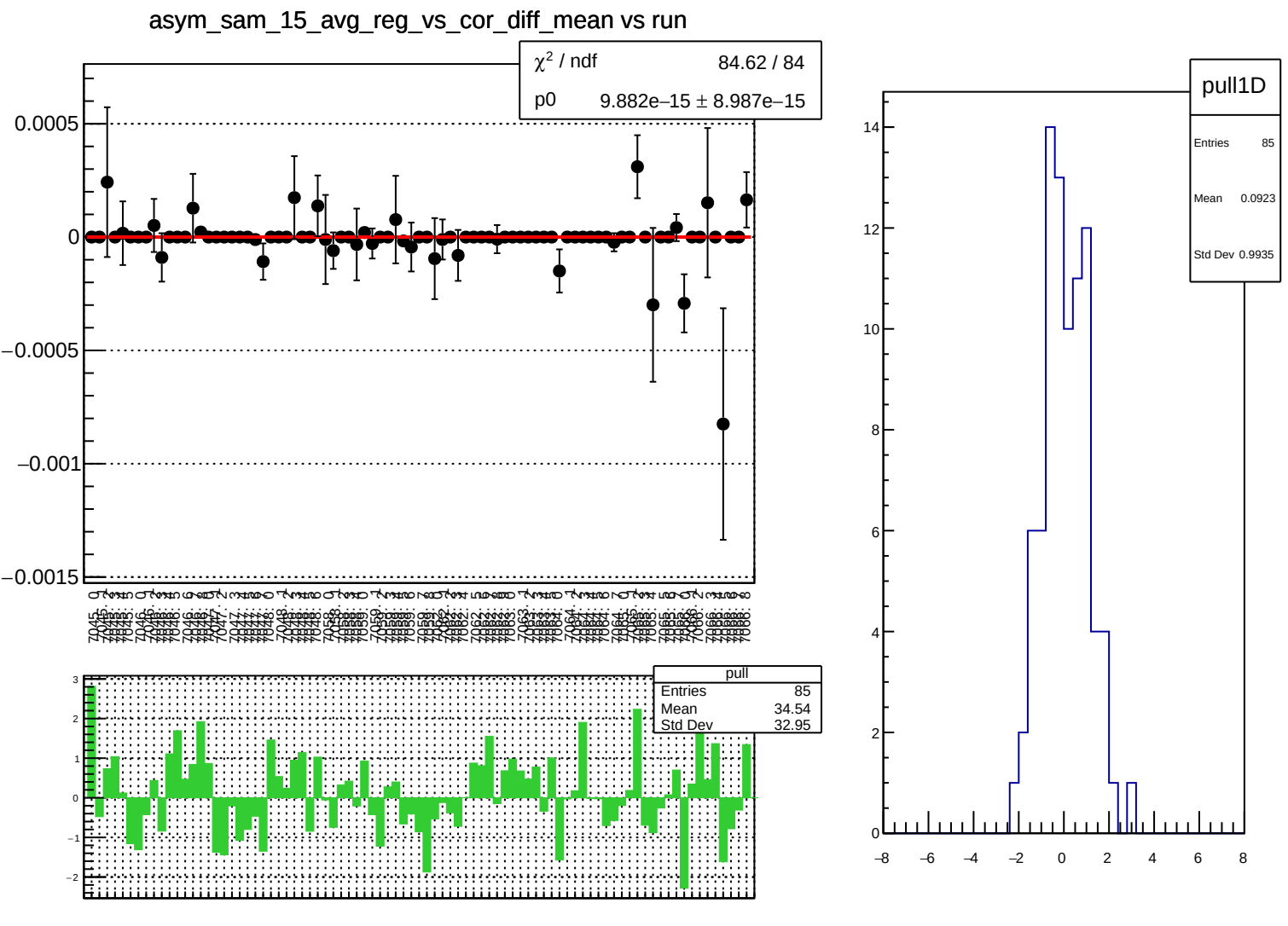

pull1D
Entries 85
Mean −0.02188
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

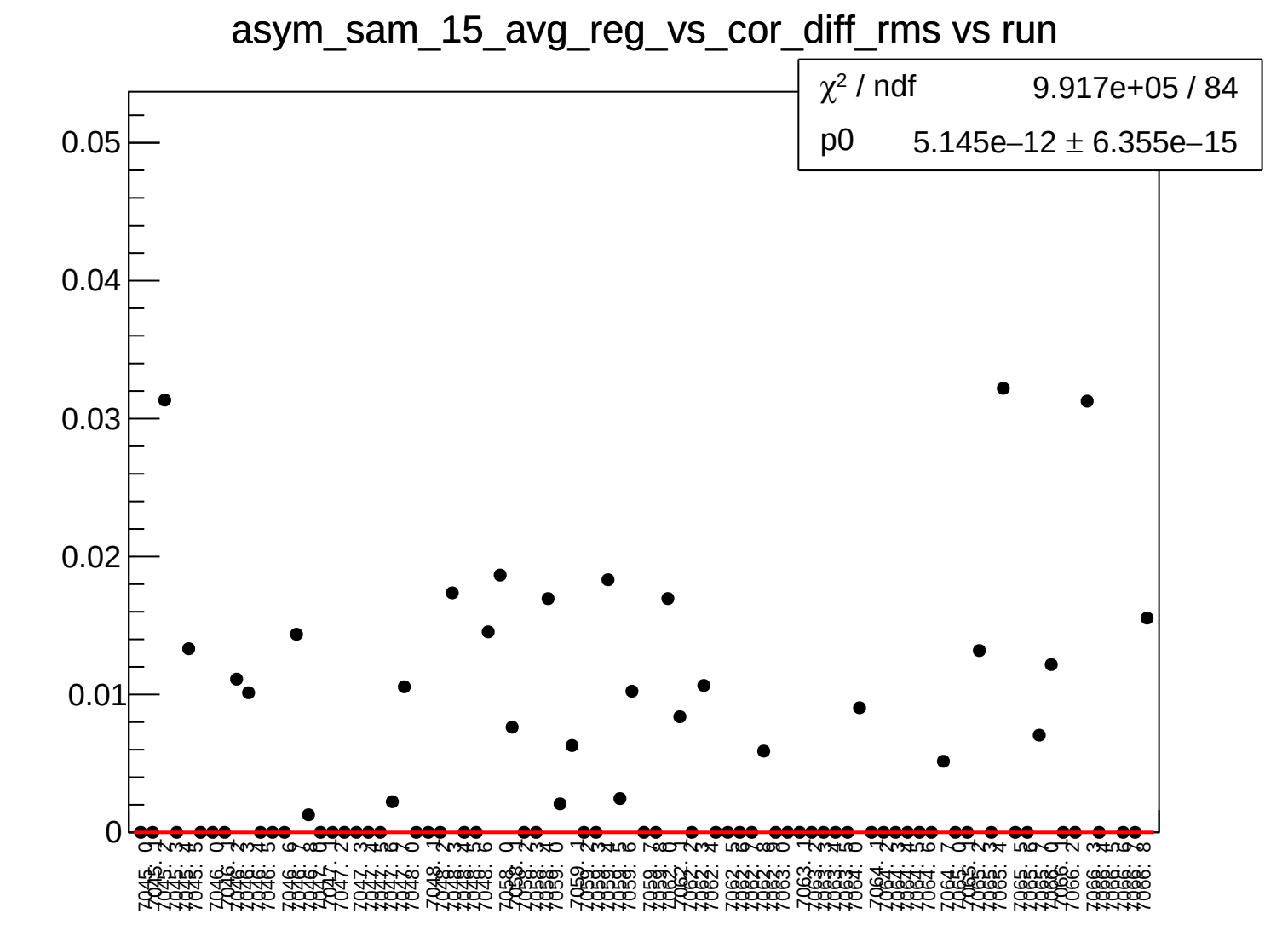

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 3.169e+04 / 84
p0 362.3 ± 0.285
460
440
420
400
380
360
340
320
300
280

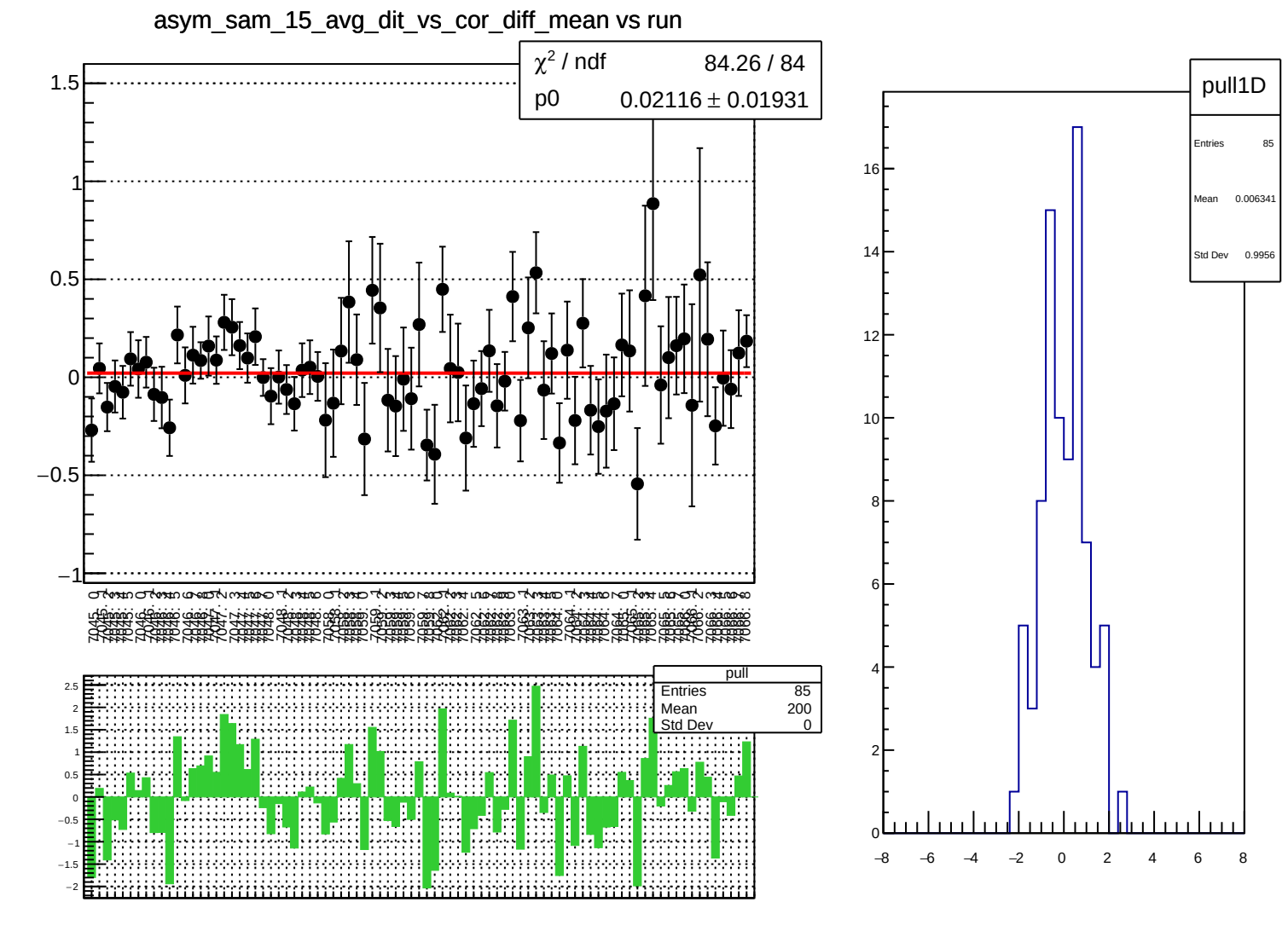

asym_sam_15_avg_mean vs run
χ² / ndf 85.04 / 84
p0 594.5 ± 398.5
pull
Entries 85
Mean 234.7
Std Dev 0

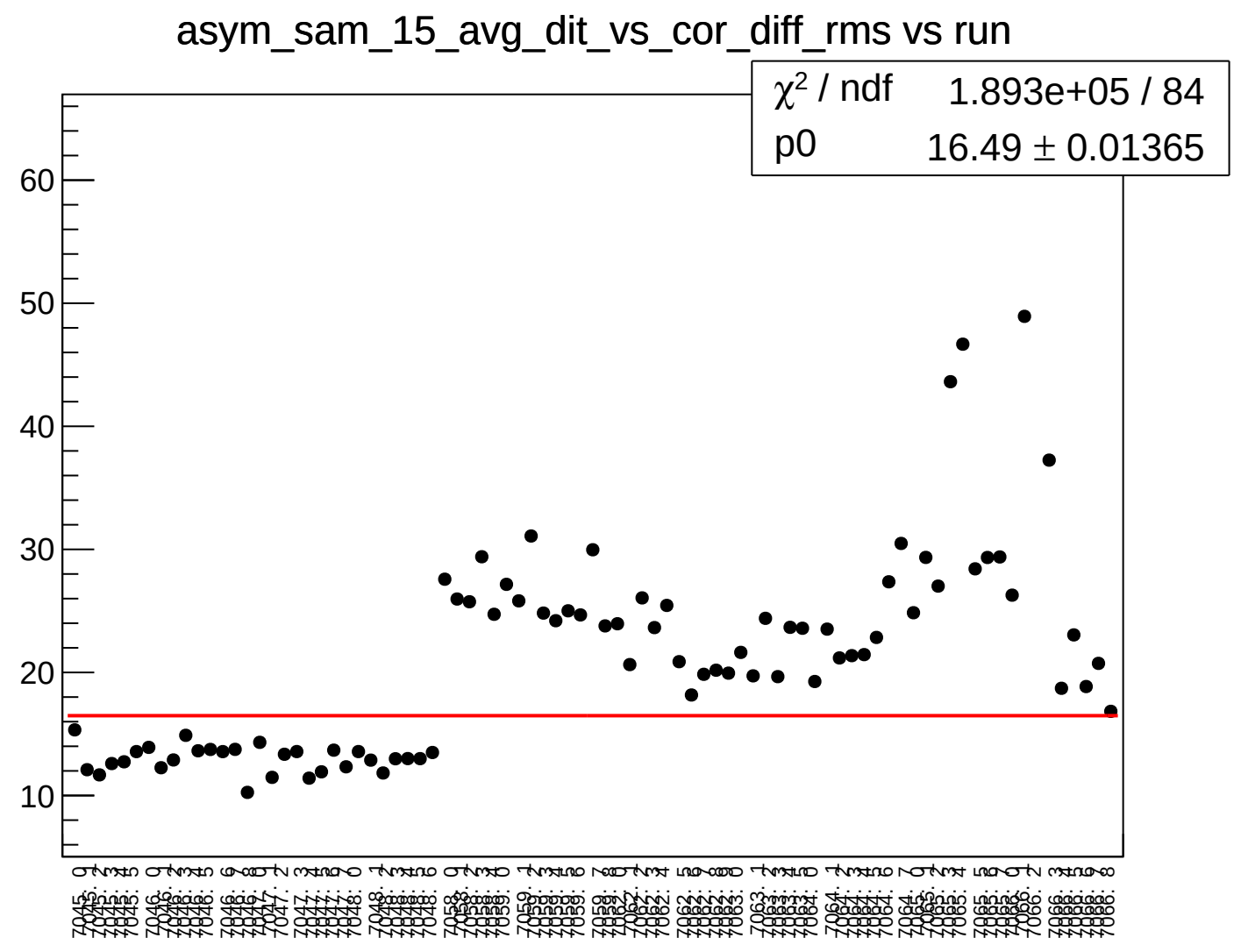

pull1D
Entries 85
Mean 0.02518
Std Dev 0.9999

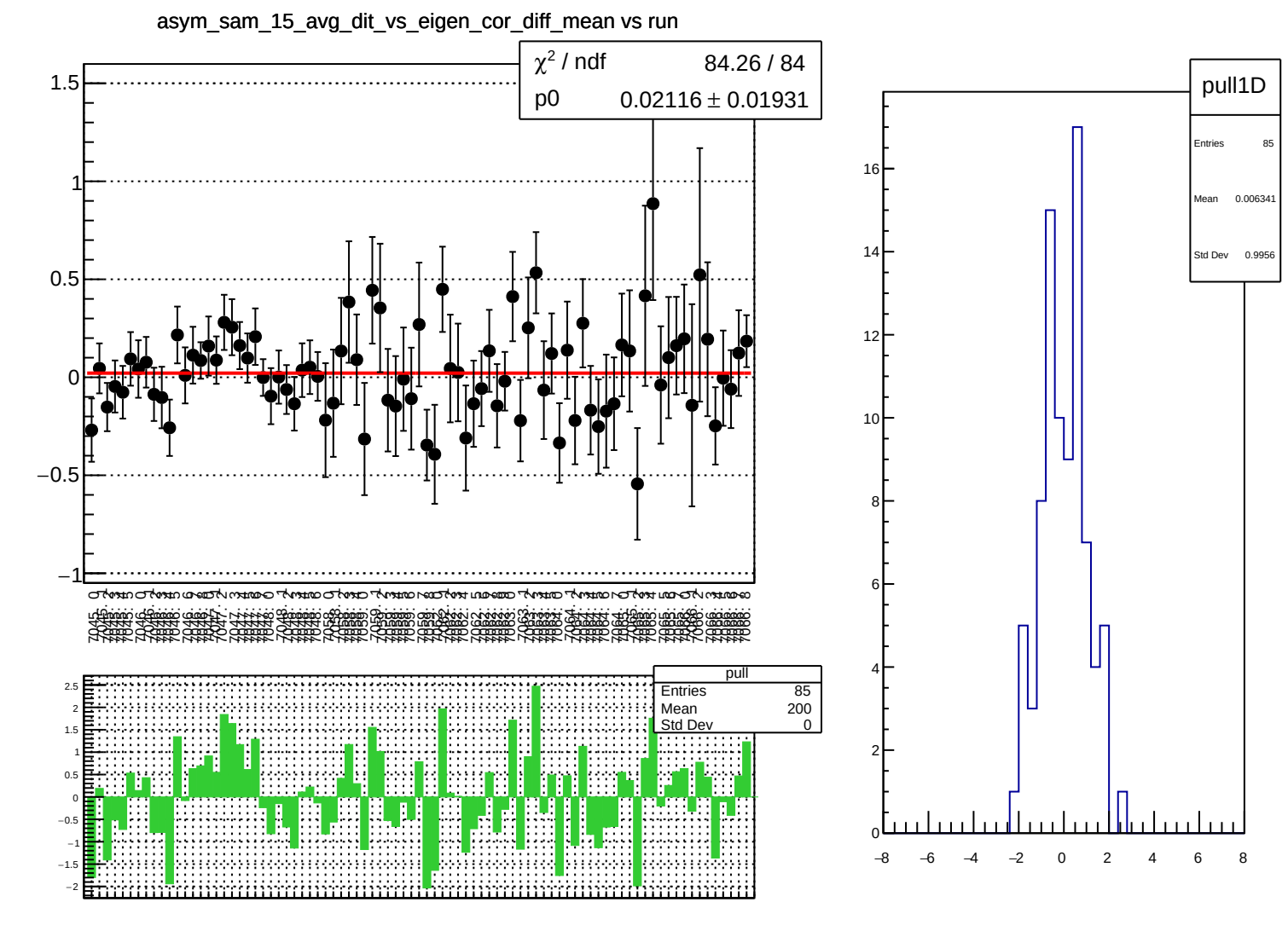

asym_sam_15_avg_rms vs run
χ² / ndf 3.149e+04 / 84
p0 358.2 ± 0.2818
480
460
440
420
400
380
360
340
320
300
280

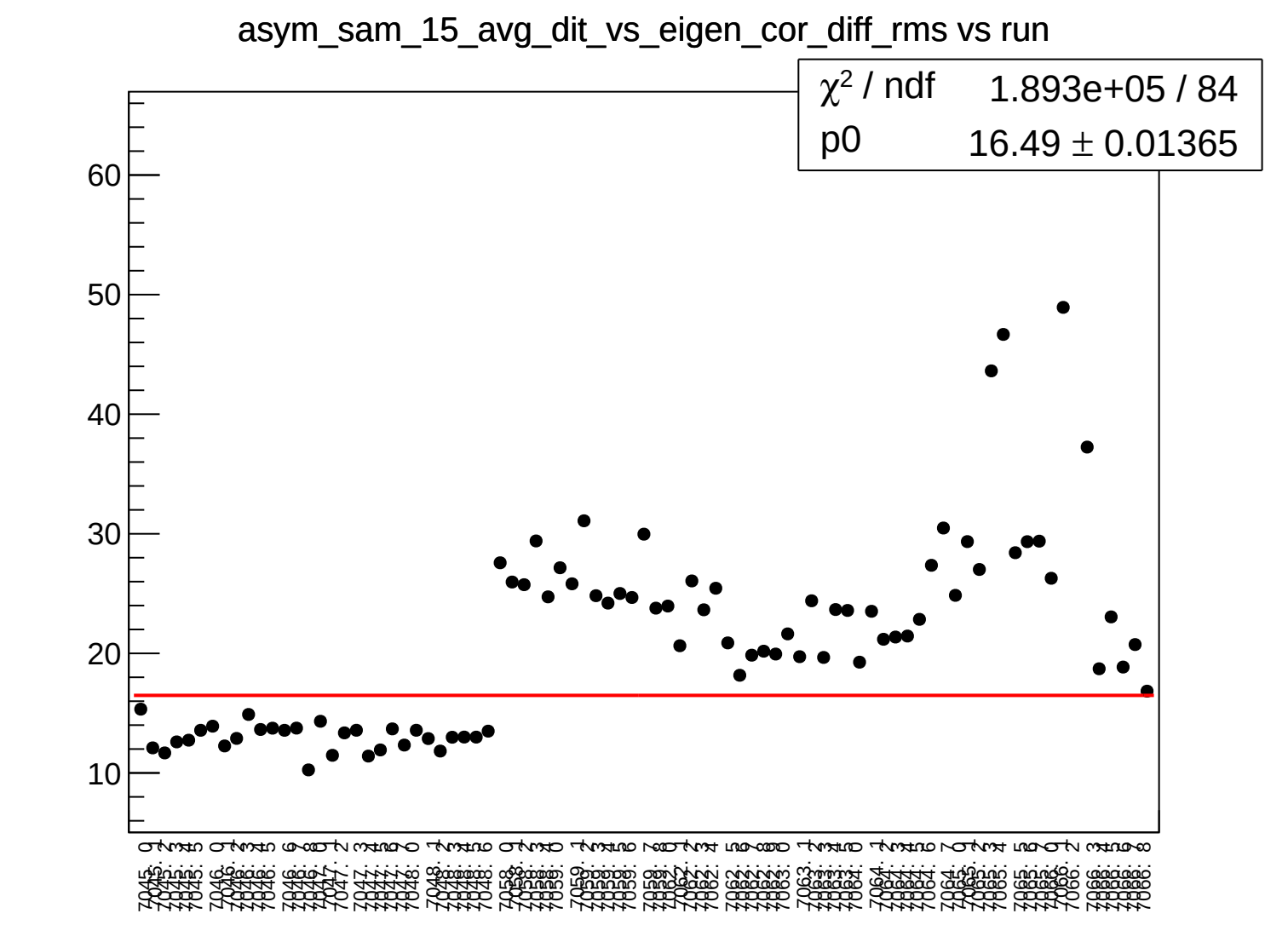

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.62 / 84
p0 9.882e−15 ± 8.987e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 34.54
Std Dev 32.95
pull1D
Entries 85
Mean 0.0923
Std Dev 0.9935

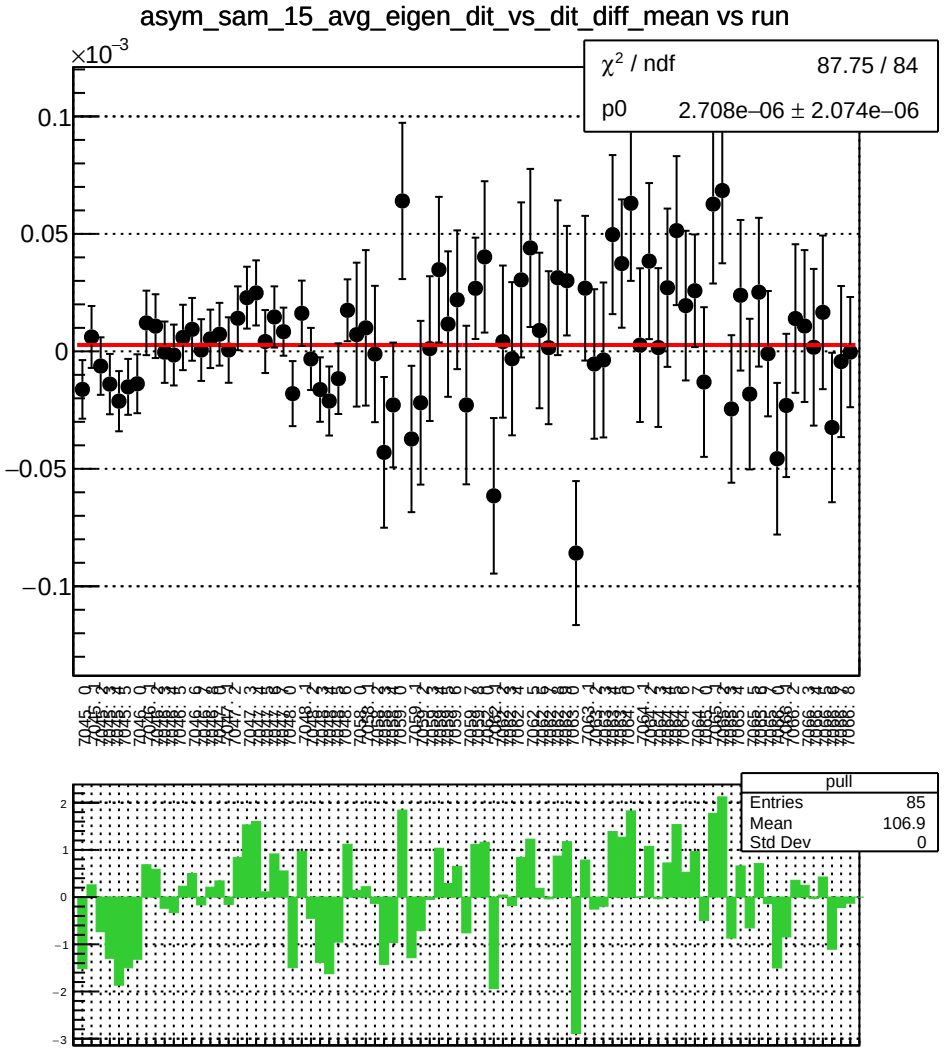

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.917e+05 / 84
p0 5.145e−12 ± 6.355e−15
0.05
0.04
0.03
0.02
0.01
0

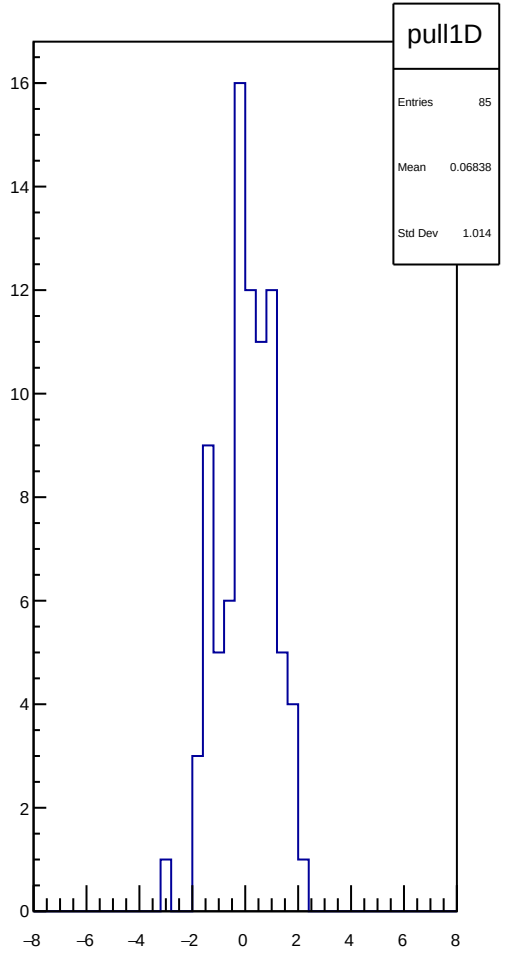

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.26 / 84
p0 0.02116 ± 0.01931
pull
Entries 85
Mean 200
Std Dev 0
pull1D
Entries 85
Mean 0.006341
Std Dev 0.9956

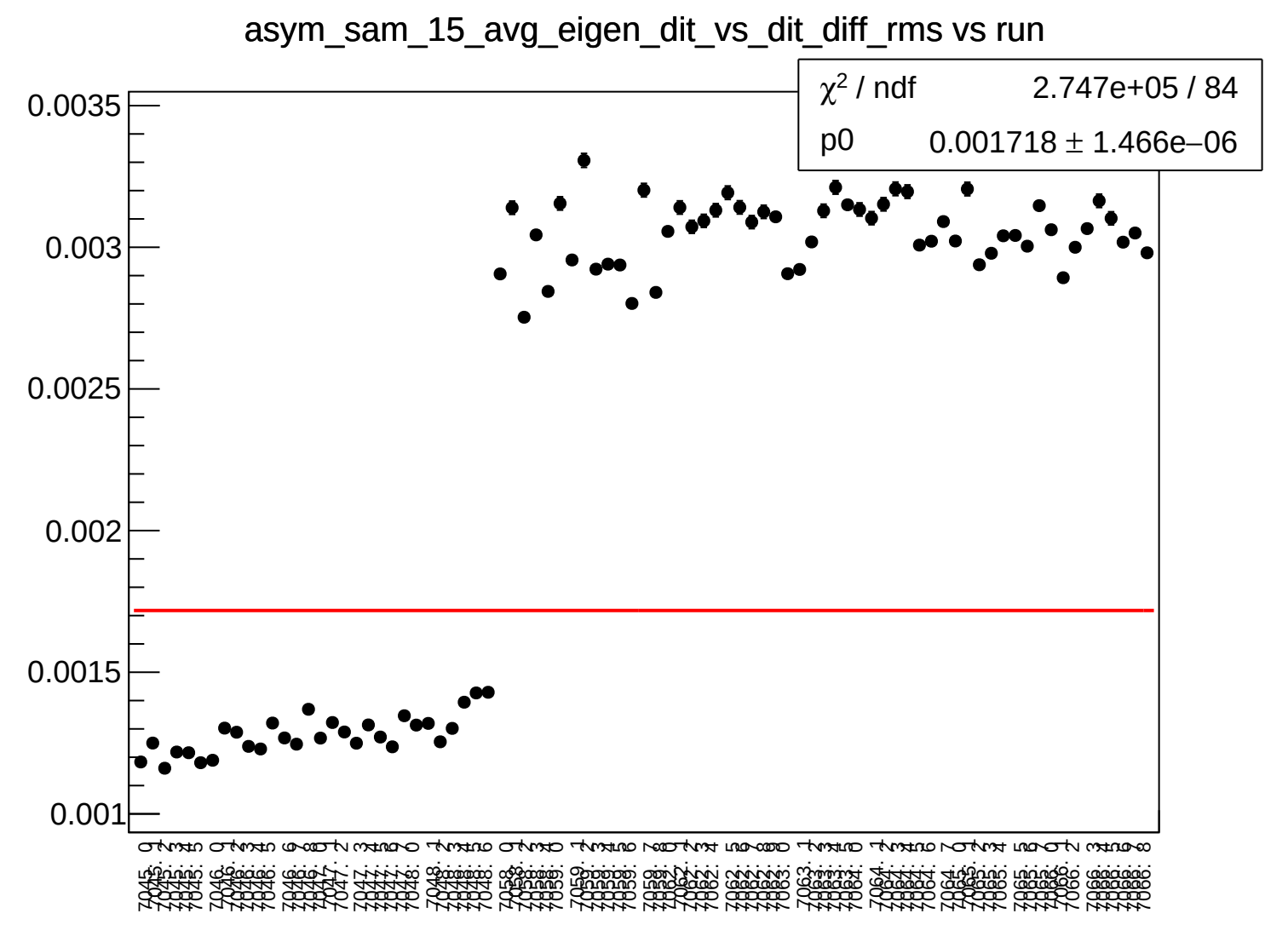

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.893e+05 / 84
p0 16.49 ± 0.01365
60
50
40
30
20
10

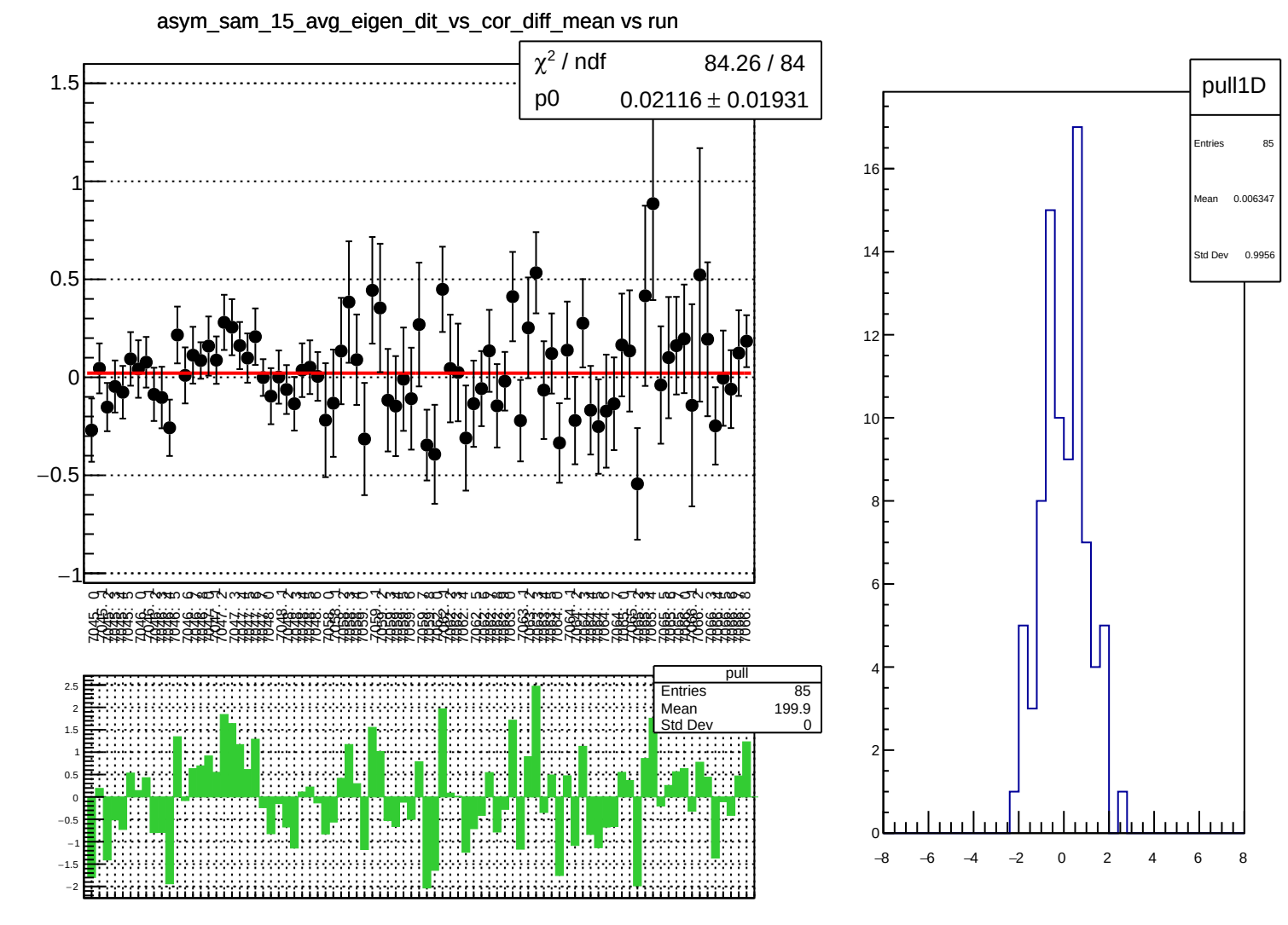

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.26 / 84
p0 0.02116 ± 0.01931
pull
Entries 85
Mean 200
Std Dev 0
pull1D
Entries 85
Mean 0.006341
Std Dev 0.9956

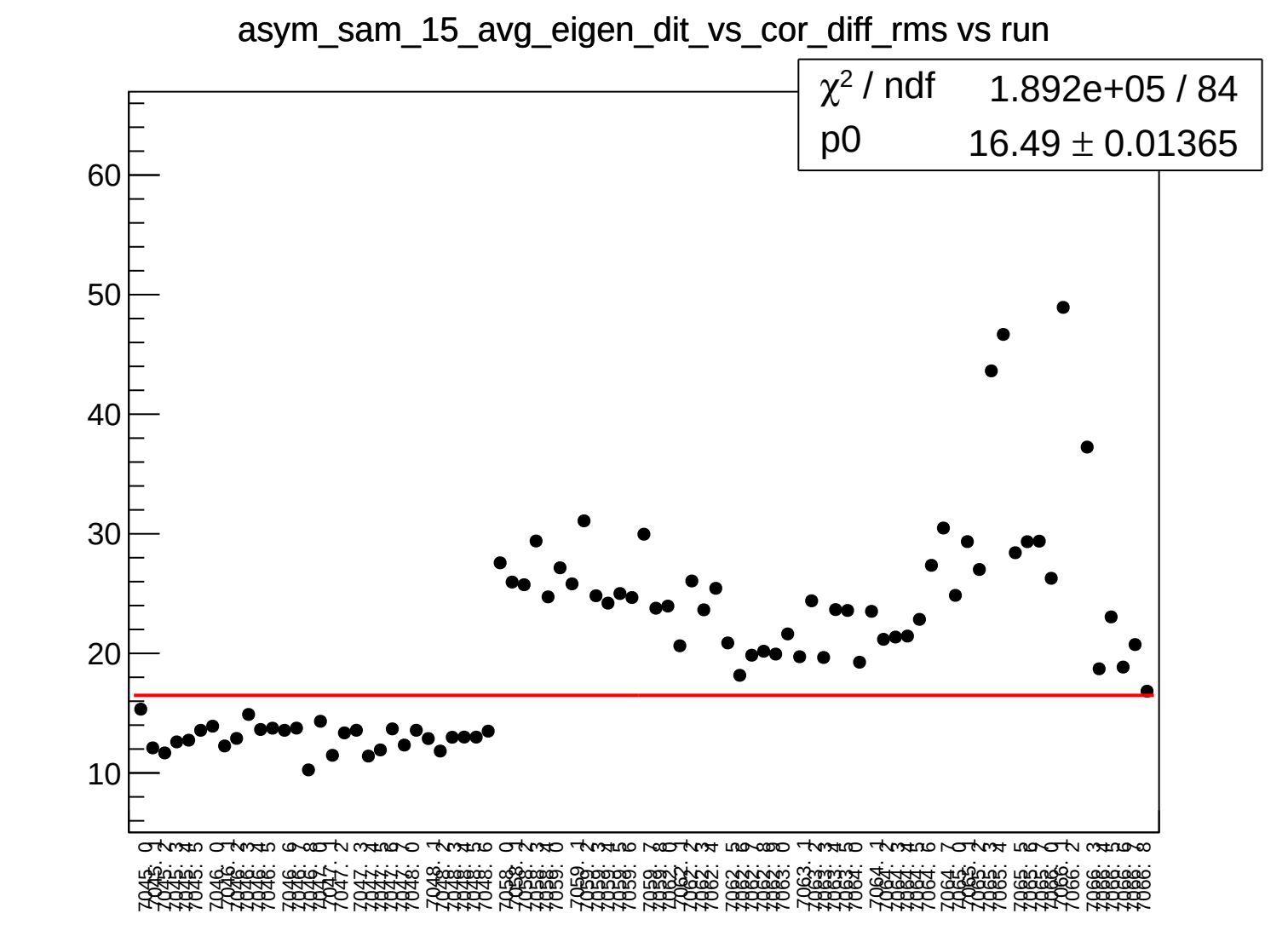

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.893e+05 / 84
p0 16.49 ± 0.01365
60
50
40
30
20
10

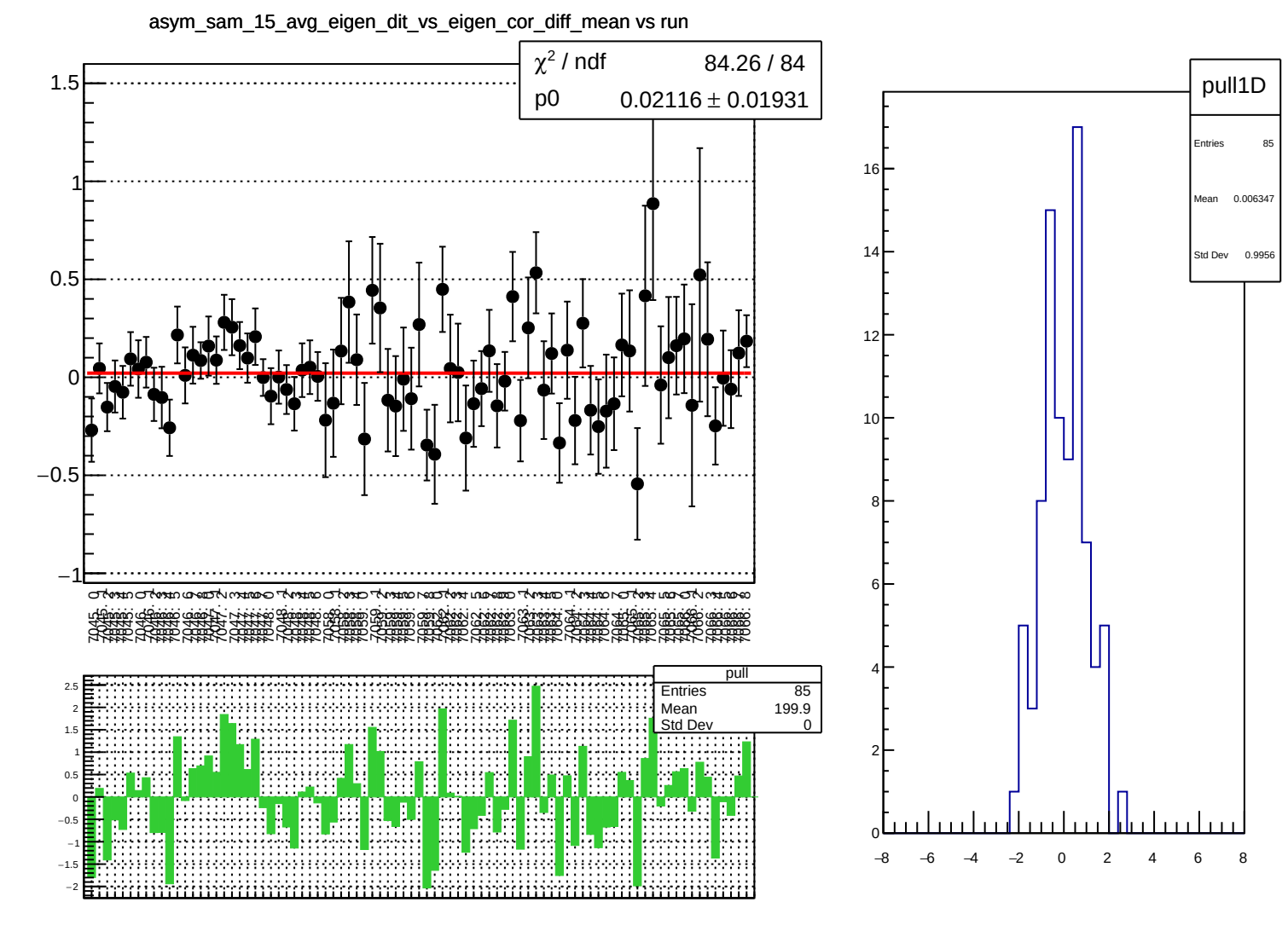

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.75 / 84
p0 2.708e−06 ± 2.074e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 106.9
Std Dev 0
2
1
0
−1
−2
−3

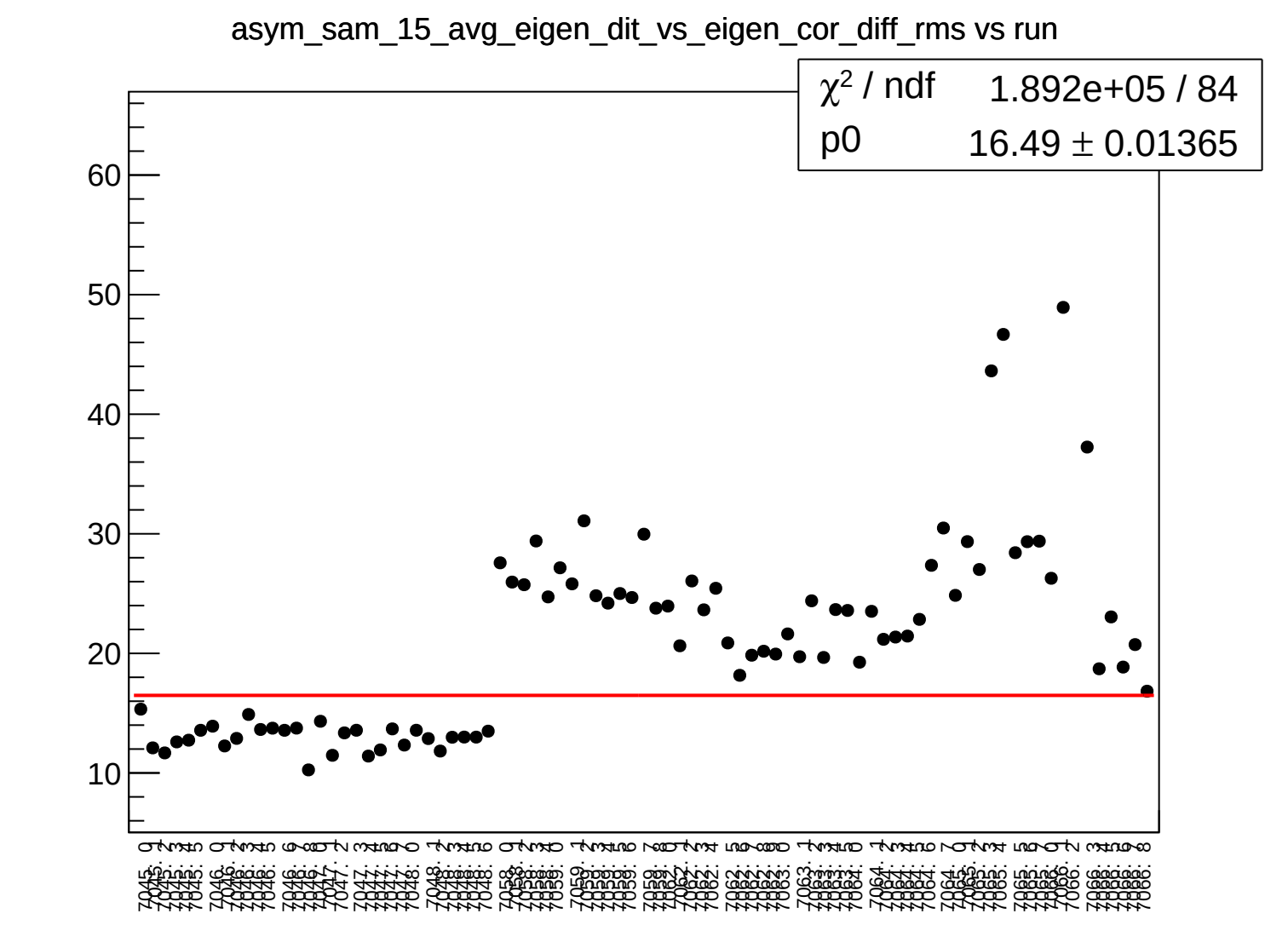

pull1D
Entries 85
Mean 0.06838
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

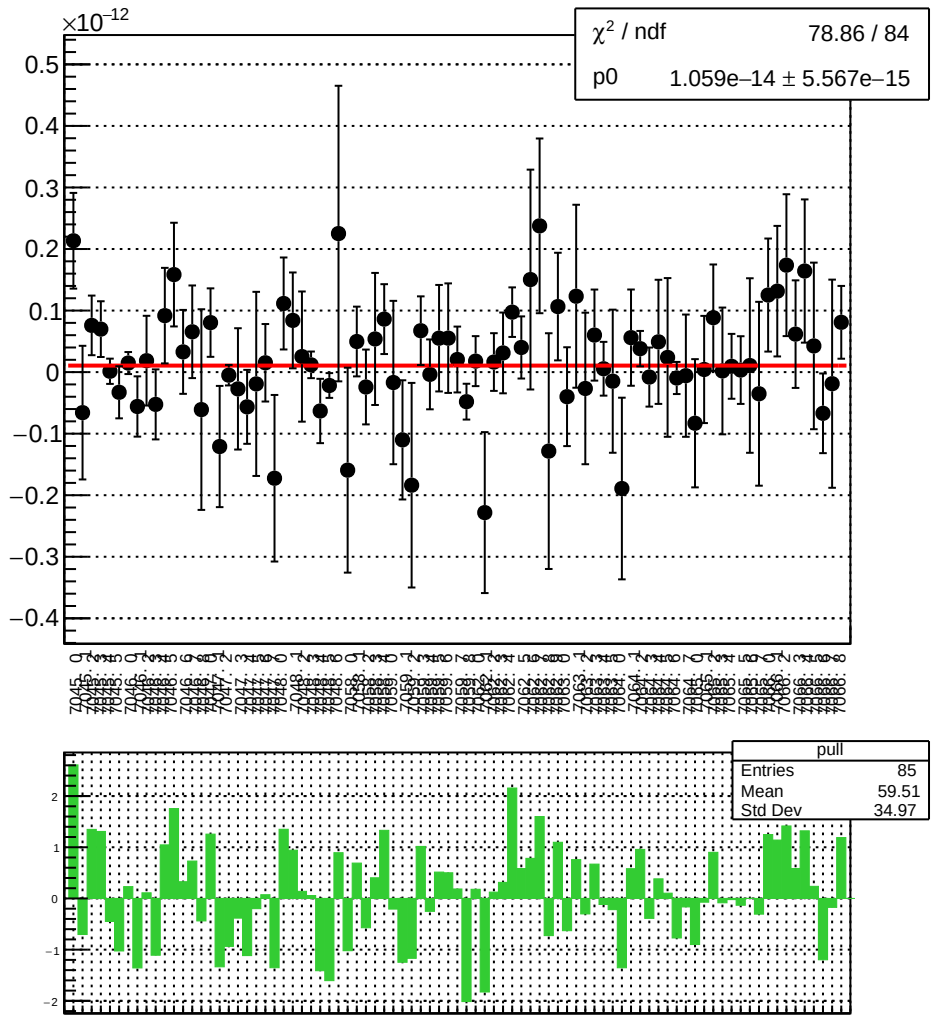

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.747e+05 / 84
p0 0.001718 ± 1.466e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

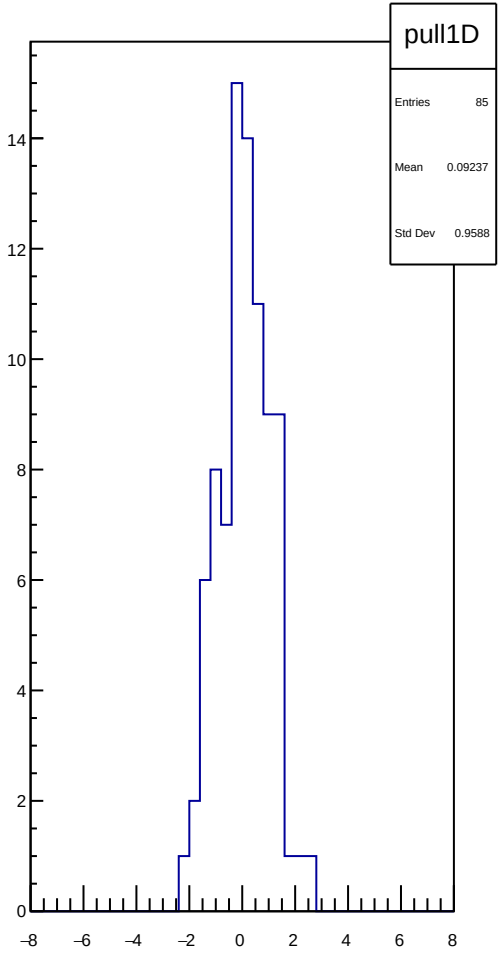

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.26 / 84
p0 0.02116 ± 0.01931
pull
Entries 85
Mean 199.9
Std Dev 0
pull1D
Entries 85
Mean 0.006347
Std Dev 0.9956

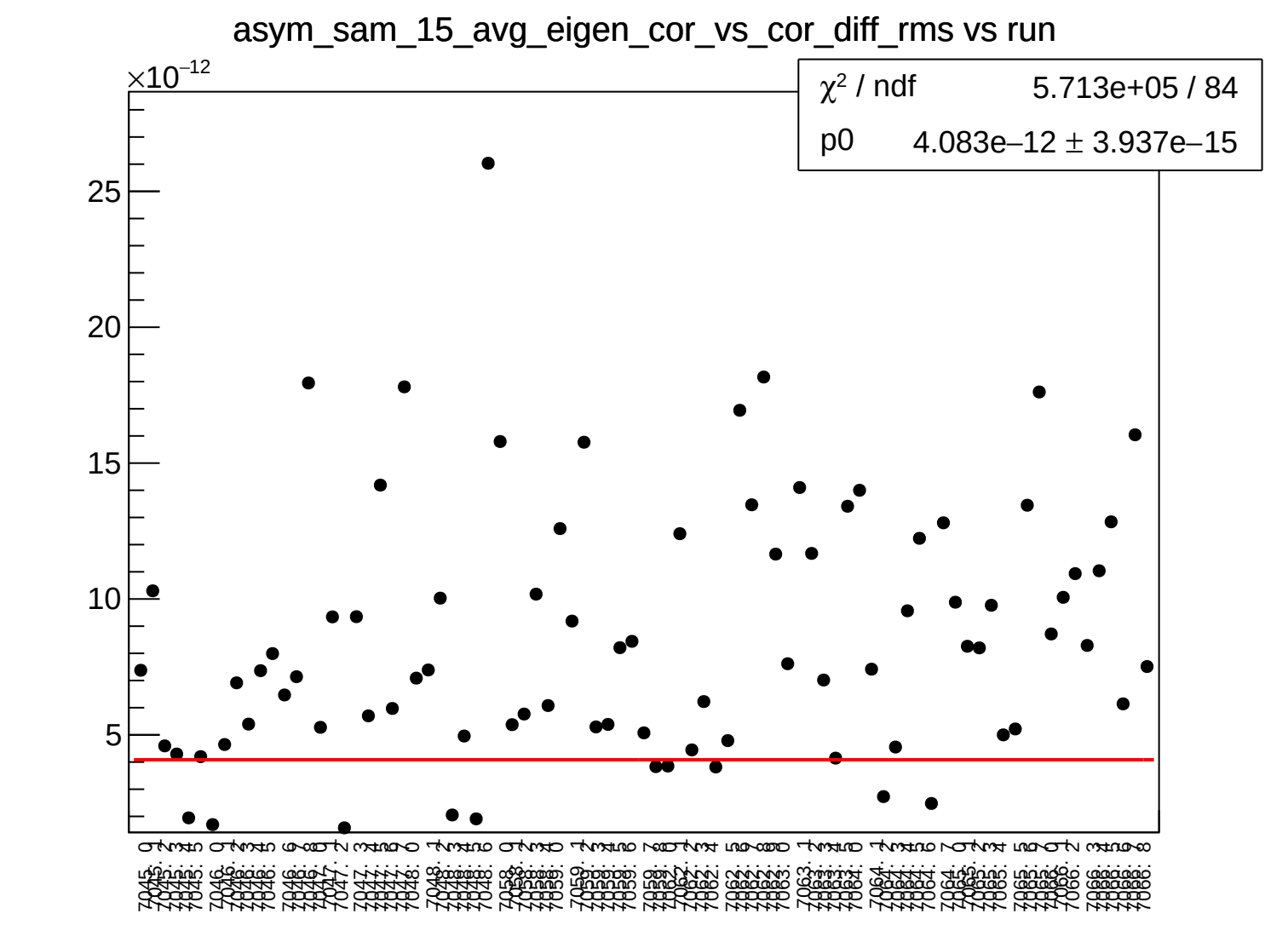

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.892e+05 / 84
p0 16.49 ± 0.01365
60
50
40
30
20
10

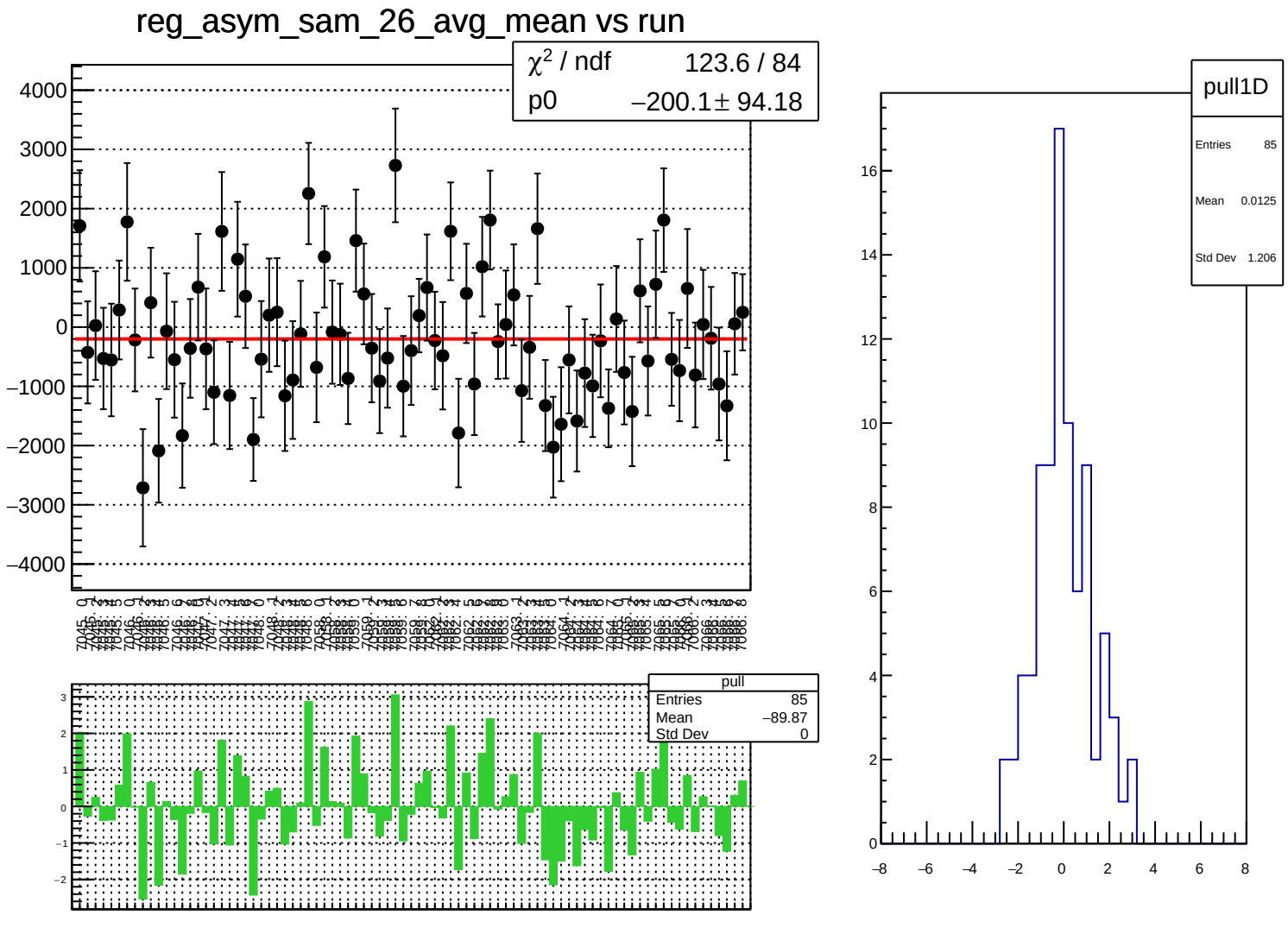

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.26 / 84
p0 0.02116 ± 0.01931
pull
Entries 85
Mean 199.9
Std Dev 0
pull1D
Entries 85
Mean 0.006347
Std Dev 0.9956

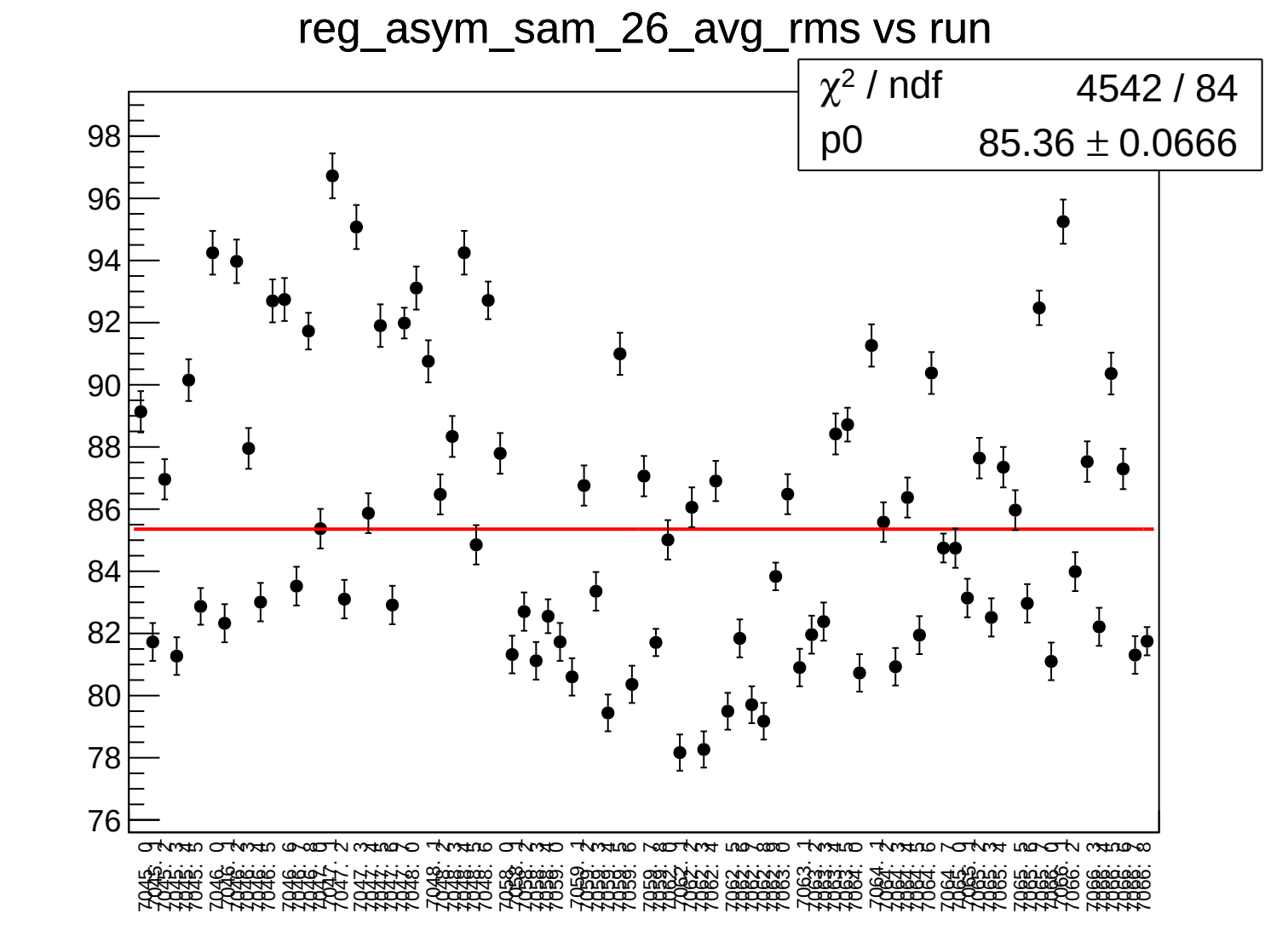

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.892e+05 / 84
p0 16.49 ± 0.01365
60
50
40
30
20
10

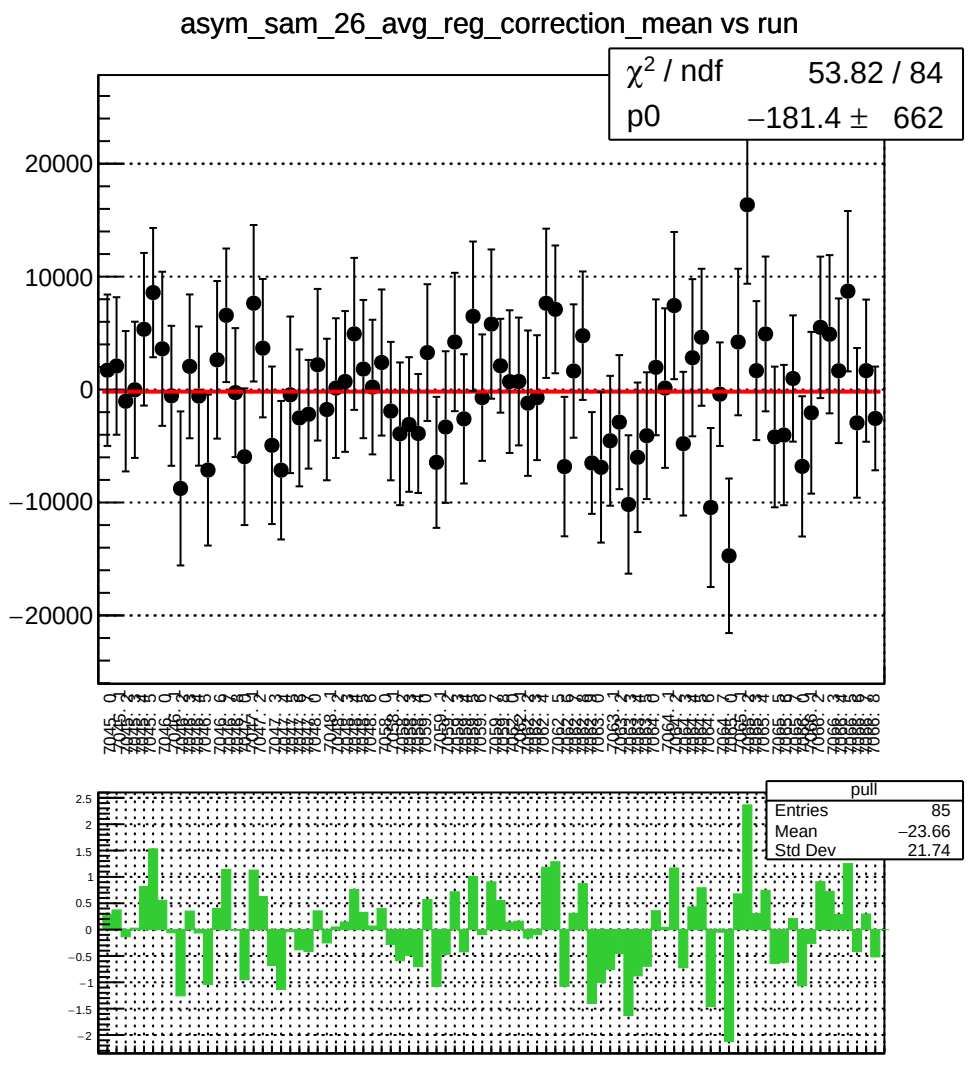

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.86 / 84
p0 1.059e−14 ± 5.567e−15
pull
Entries 85
Mean 59.51
Std Dev 34.97

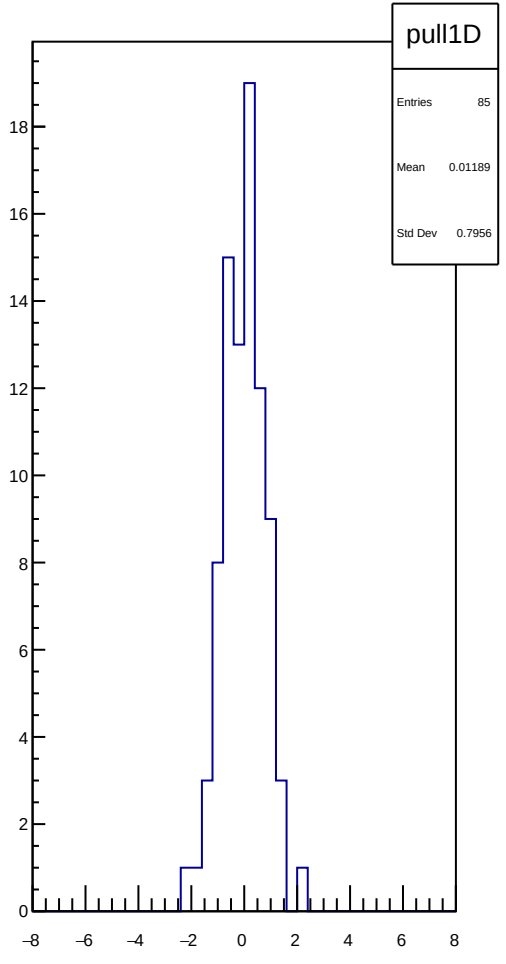

pull1D
Entries 85
Mean 0.09237
Std Dev 0.9588

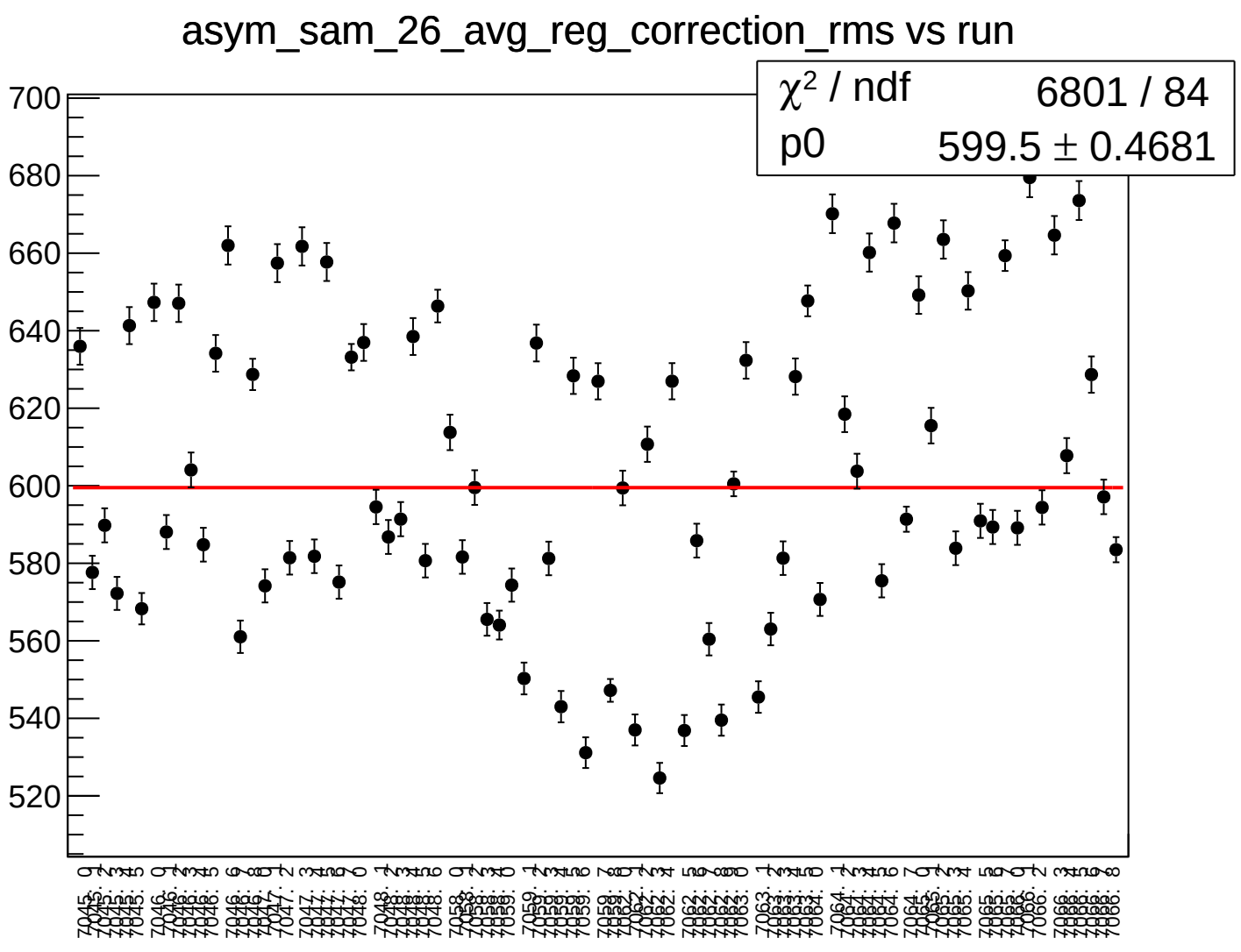

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.713e+05 / 84
p0 4.083e−12 ± 3.937e−15
25
20
15
10
5

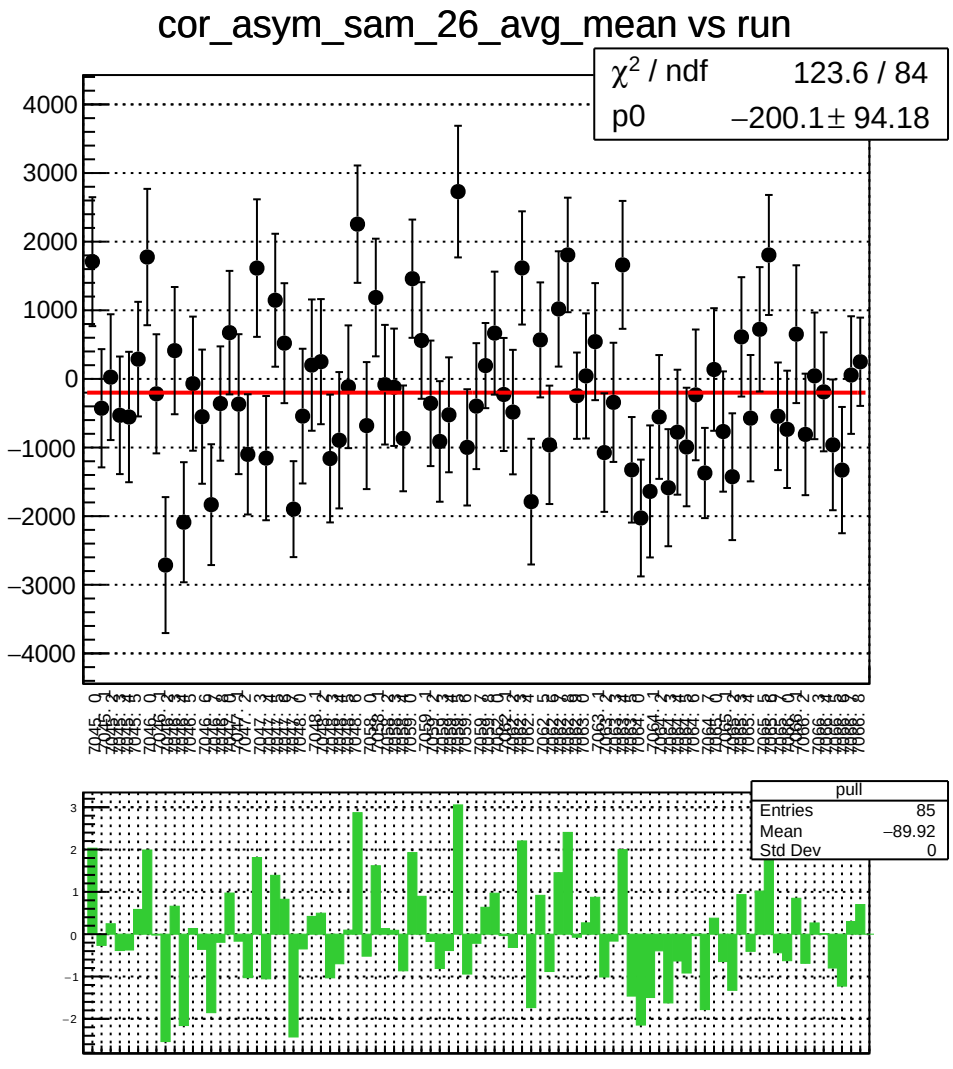

reg_asym_sam_26_avg_mean vs run
χ² / ndf 123.6 / 84
p0 −200.1± 94.18
pull
Entries 85
Mean −89.87
Std Dev 0
pull1D
Entries 85
Mean 0.0125
Std Dev 1.206

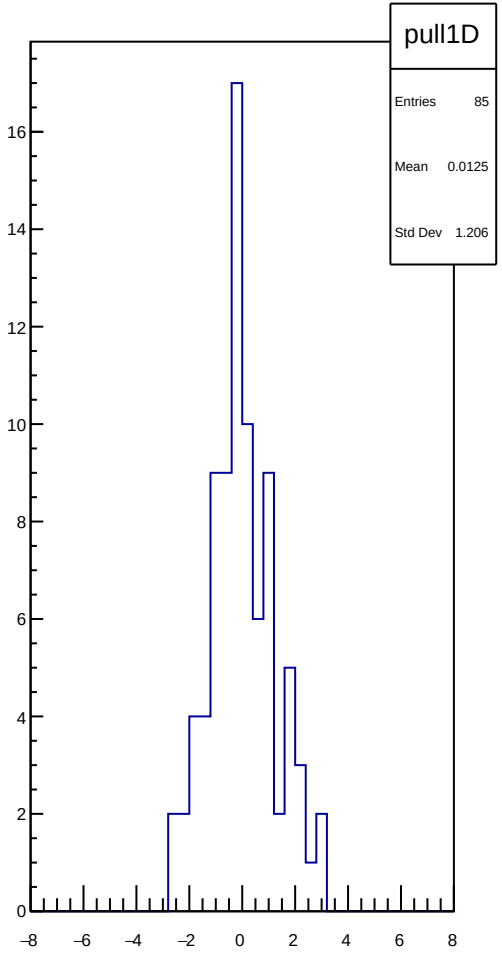

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4542 / 84
p0 85.36 ± 0.0666
98
96
94
92
90
88
86
84
82
80
78
76

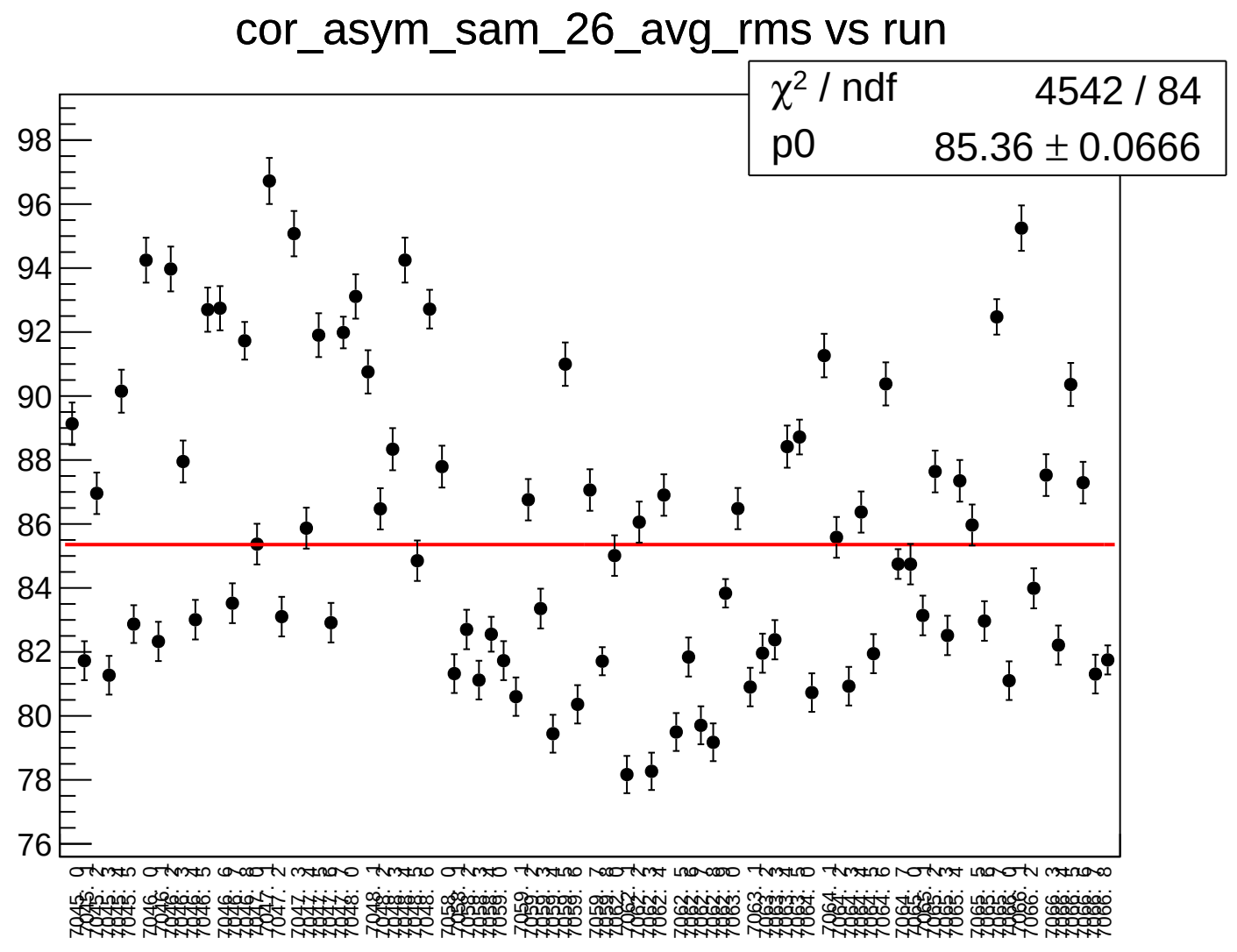

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 53.82 / 84
p0 −181.4 ± 662
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −23.66
Std Dev 21.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

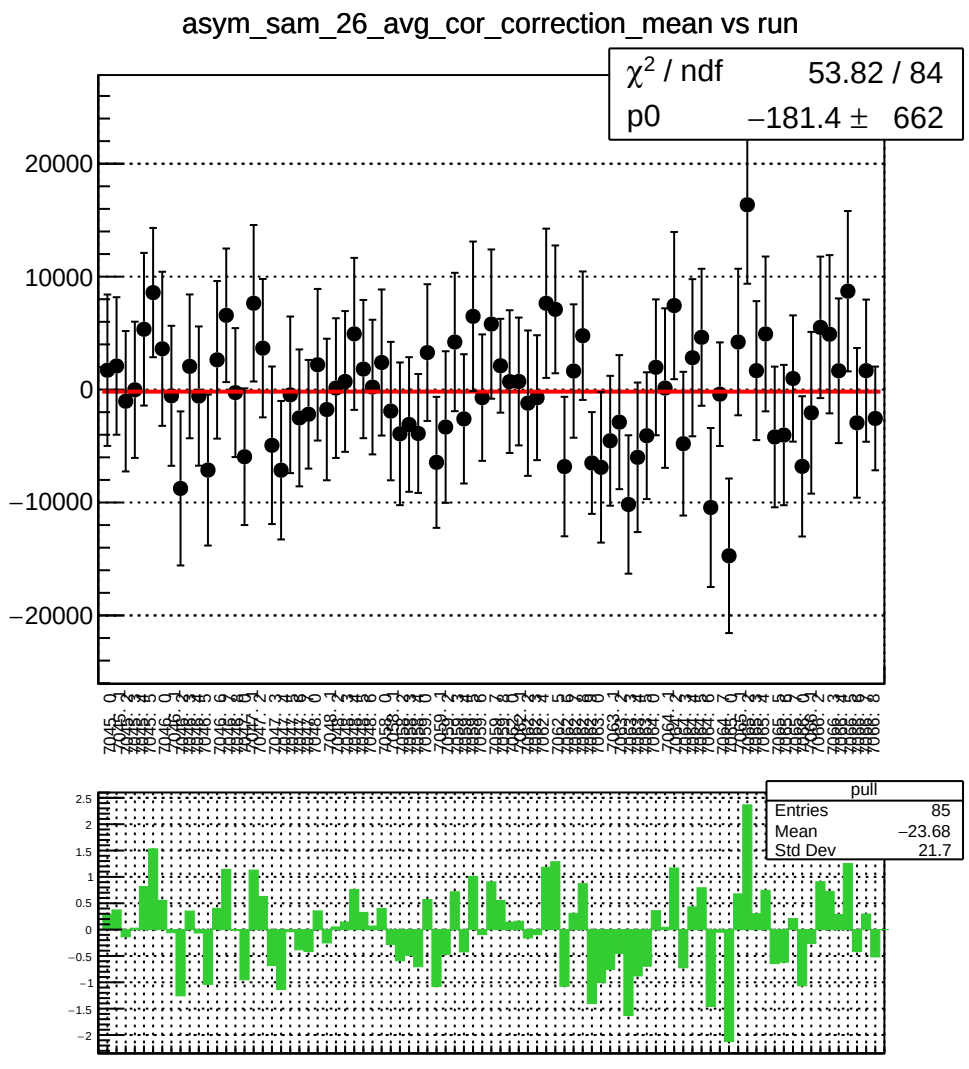

pull1D
Entries 85
Mean 0.01189
Std Dev 0.7956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

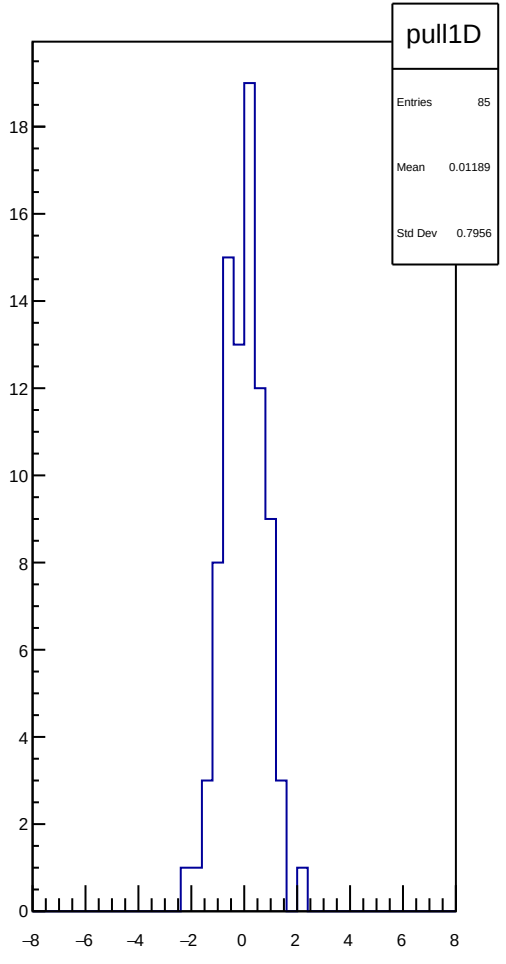

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 6801 / 84
p0 599.5 ± 0.4681
700
680
660
640
620
600
580
560
540
520

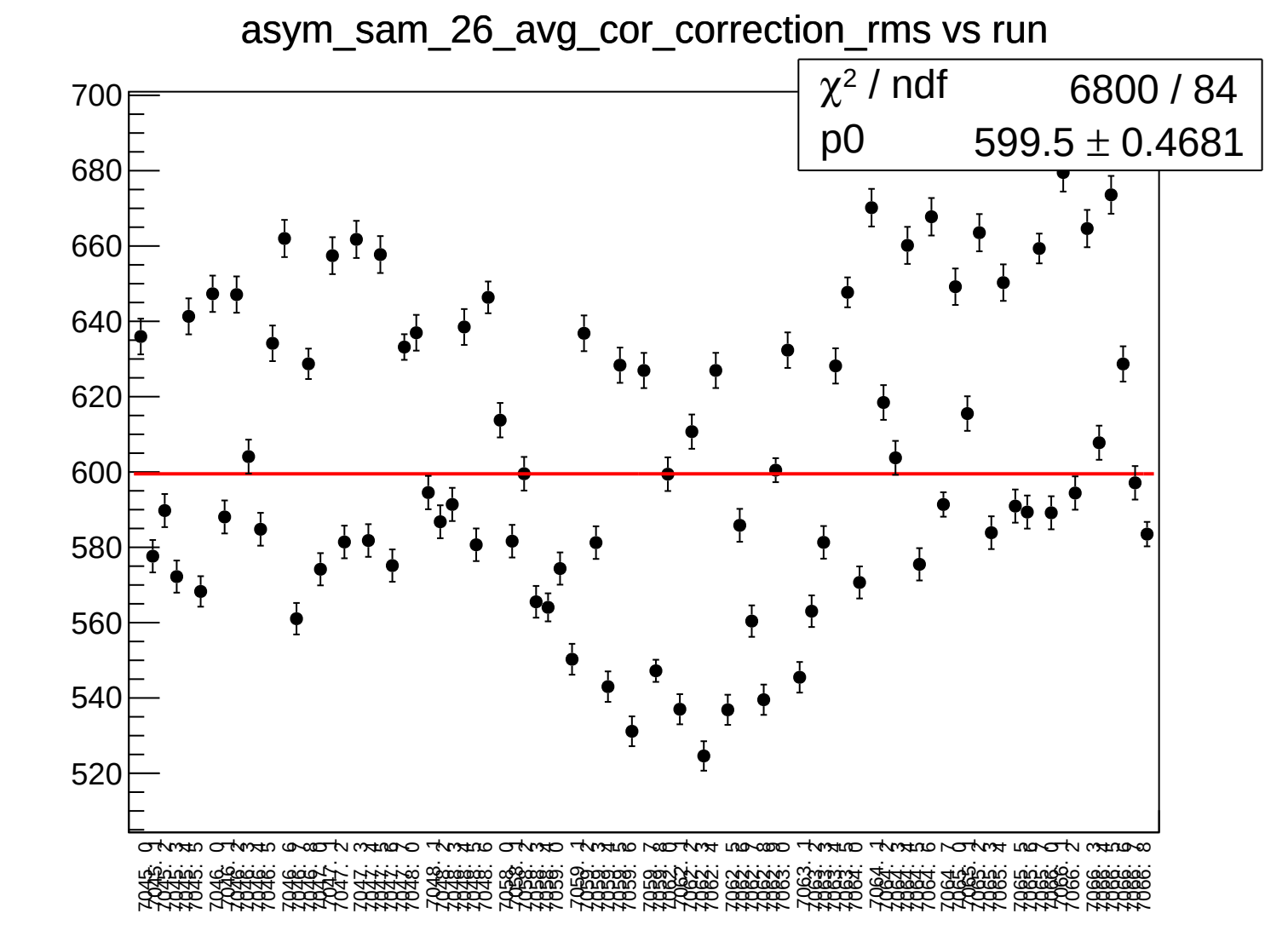

cor_asym_sam_26_avg_mean vs run
χ² / ndf 123.6 / 84
p0 −200.1± 94.18
pull
Entries 85
Mean −89.92
Std Dev 0

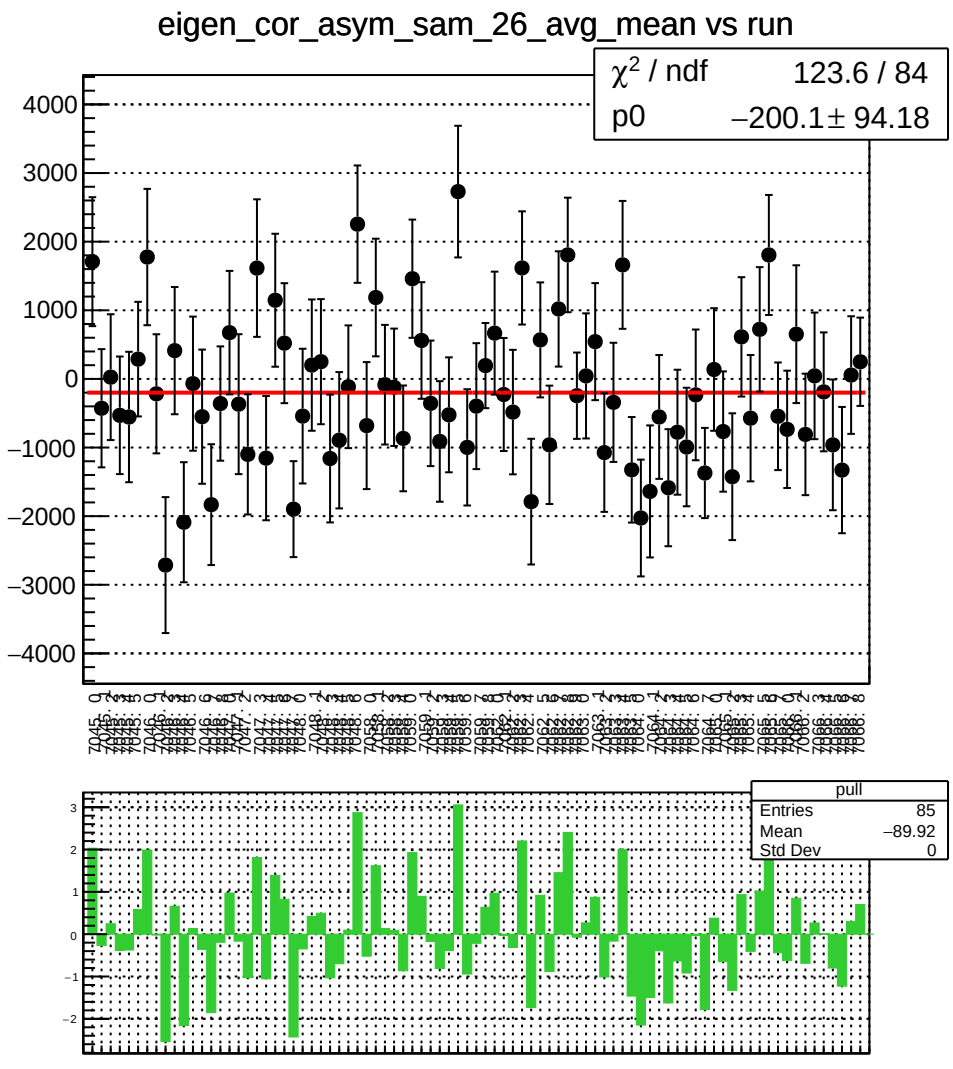

pull1D
Entries 85
Mean 0.0125
Std Dev 1.206

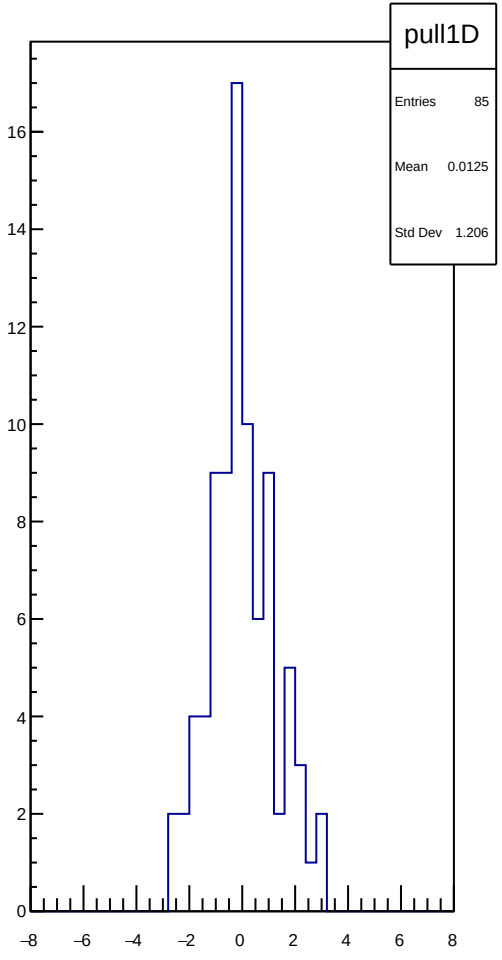

cor_asym_sam_26_avg_rms vs run
χ² / ndf 4542 / 84
p0 85.36 ± 0.0666
98
96
94
92
90
88
86
84
82
80
78
76

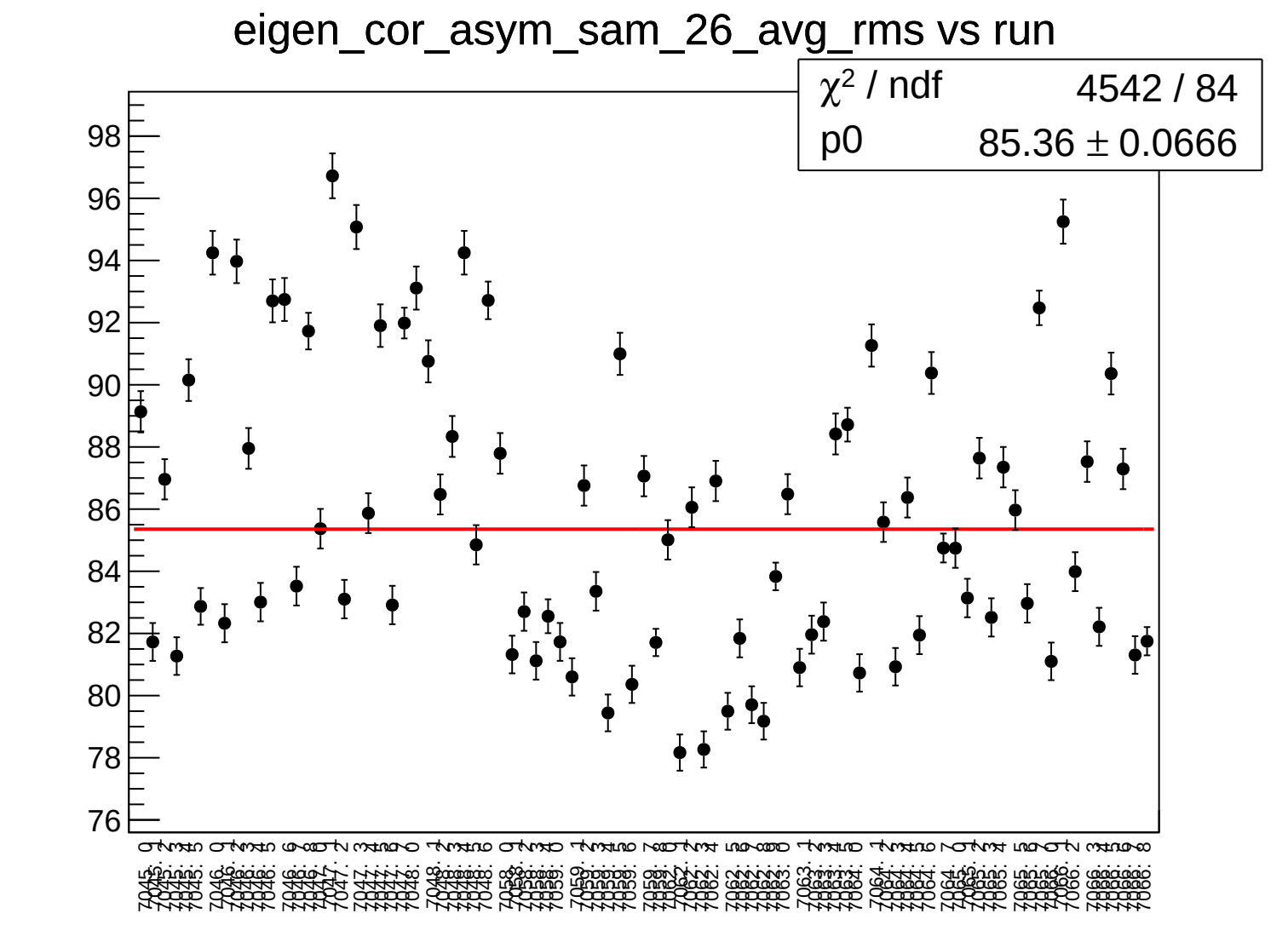

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 53.82 / 84
p0 −181.4 ± 662
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −23.68
Std Dev 21.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

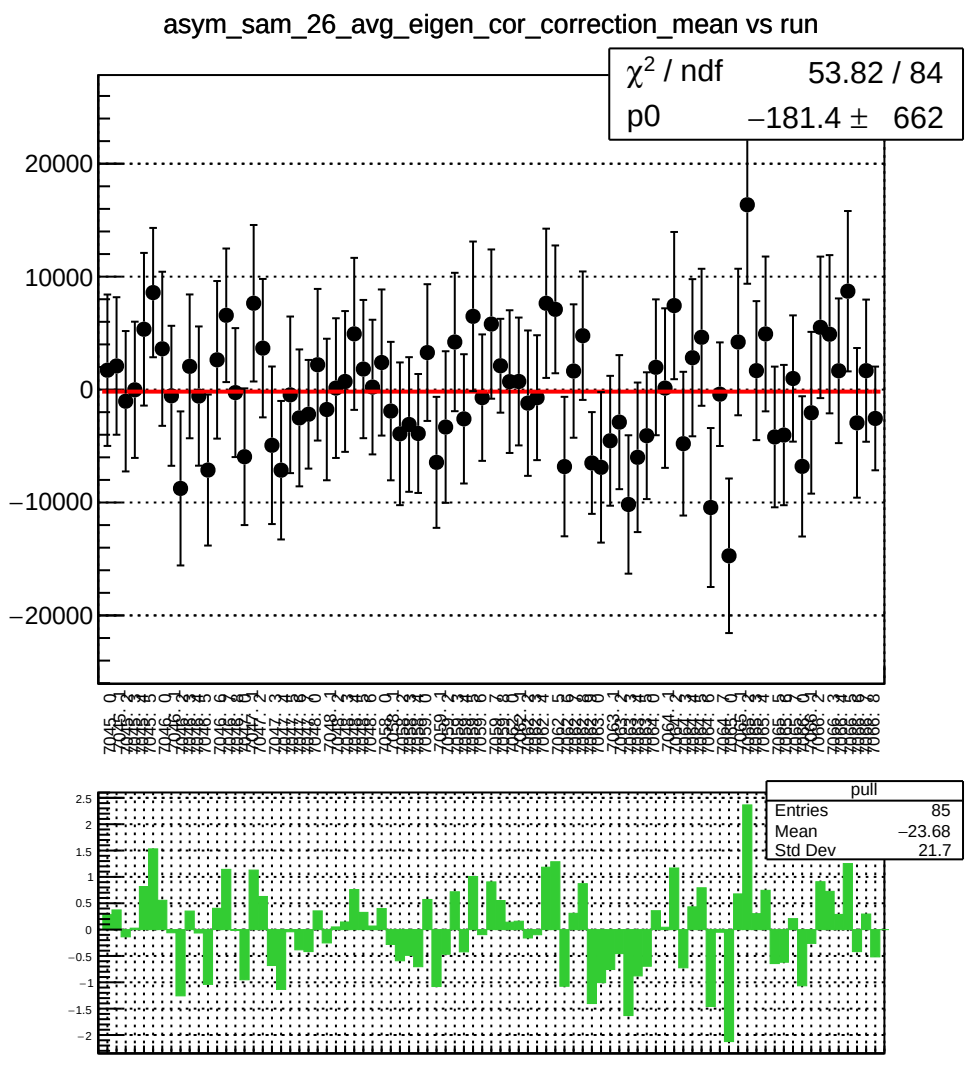

pull1D
Entries 85
Mean 0.01189
Std Dev 0.7956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

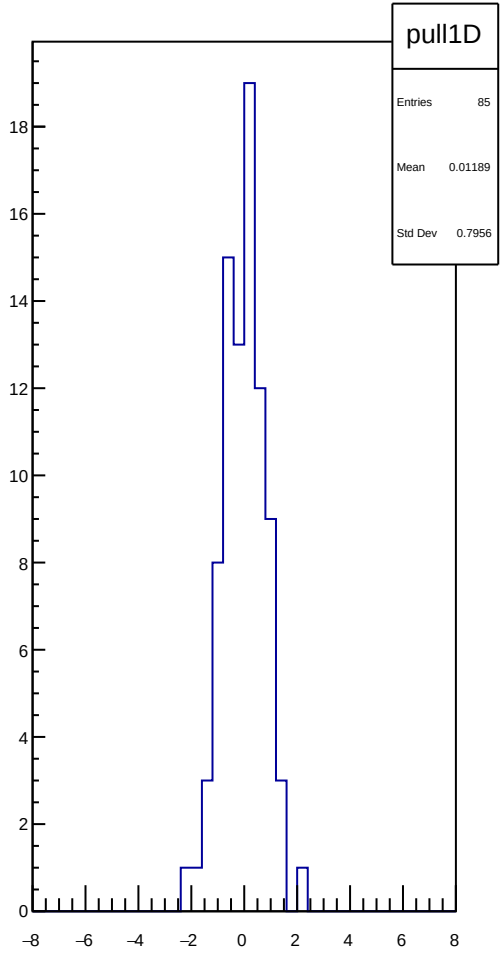

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 6800 / 84
p0 599.5 ± 0.4681
700
680
660
640
620
600
580
560
540
520

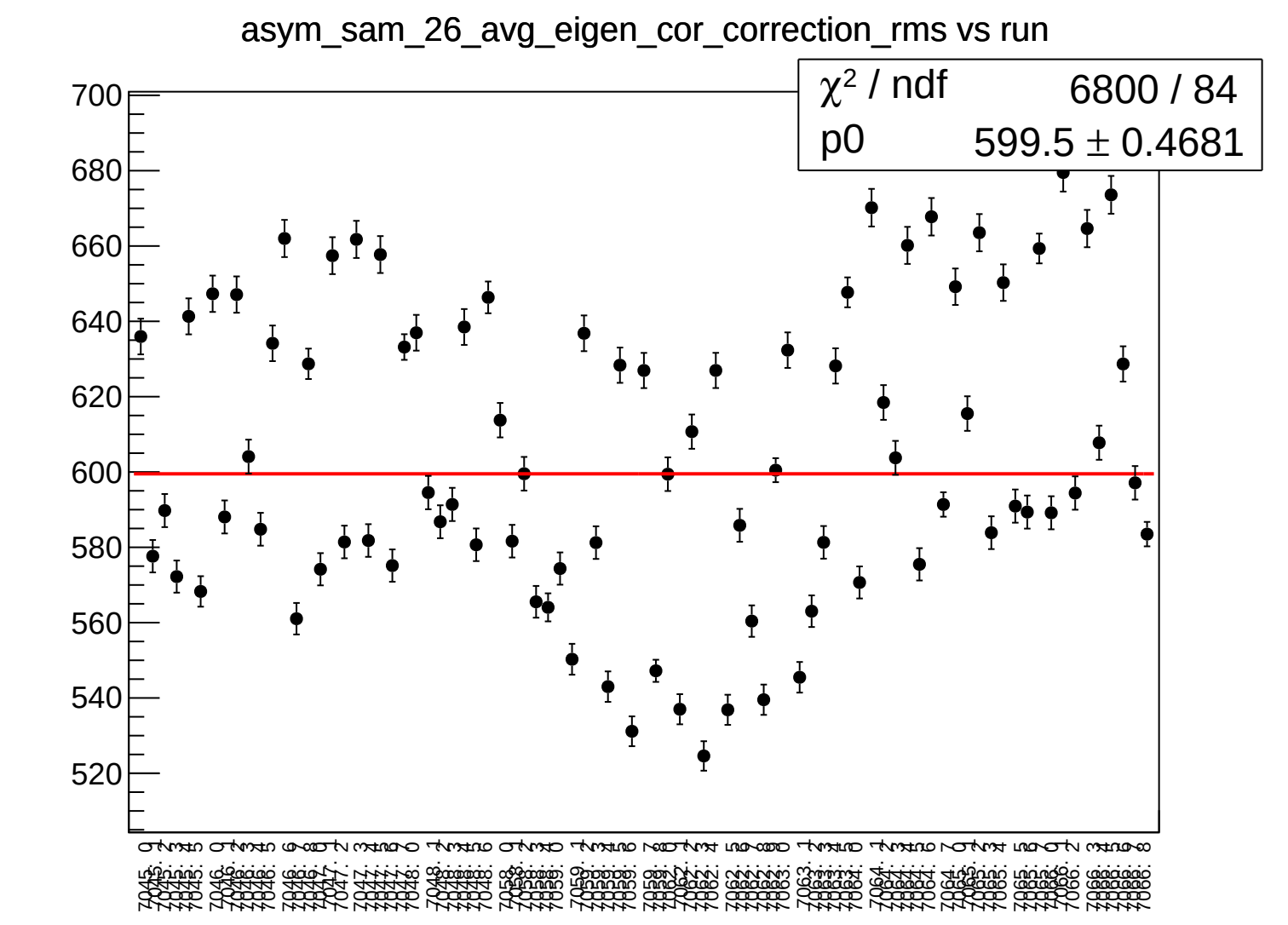

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 123.6 / 84
p0 −200.1± 94.18
pull
Entries 85
Mean −89.92
Std Dev 0

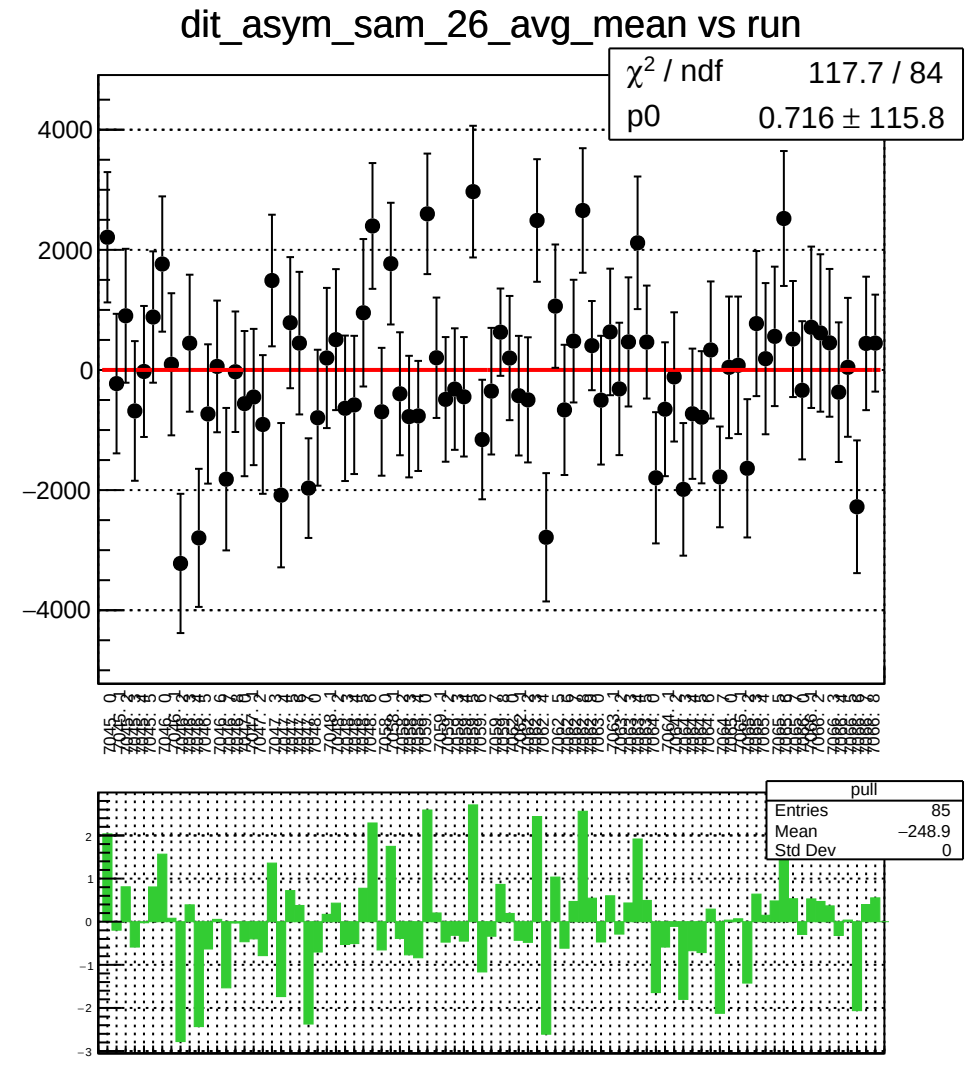

pull1D
Entries 85
Mean 0.0125
Std Dev 1.206

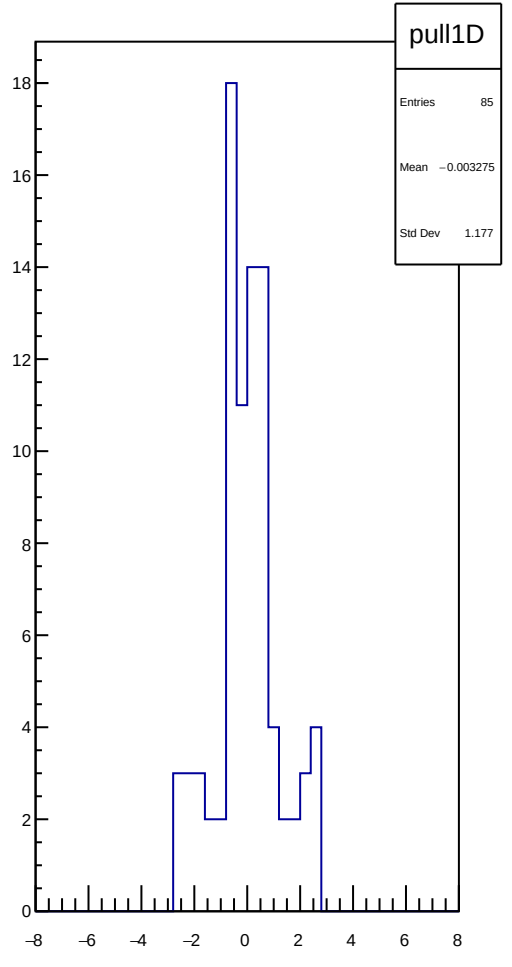

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4542 / 84
p0 85.36 ± 0.0666
98
96
94
92
90
88
86
84
82
80
78
76

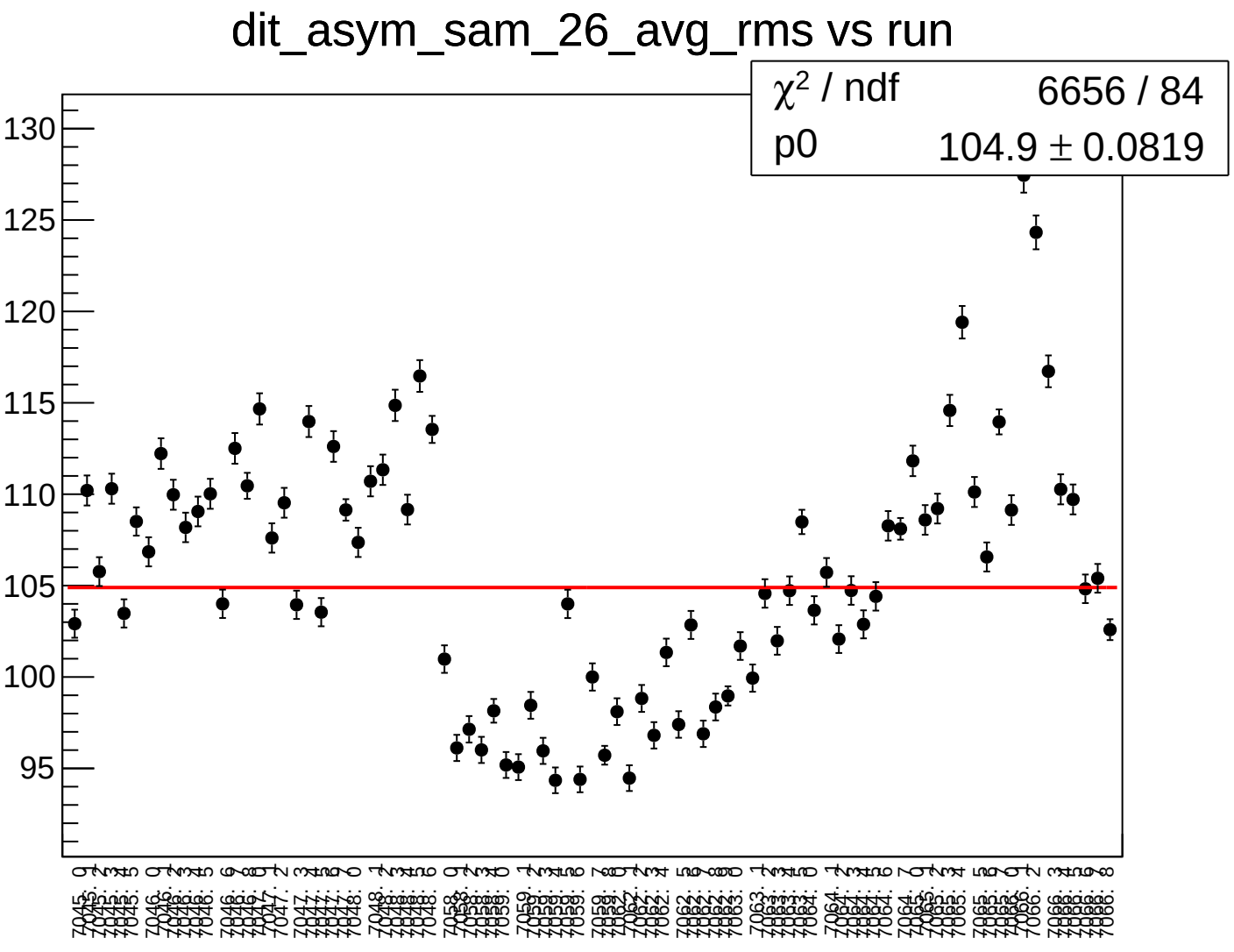

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 53.82 / 84
p0 −181.4 ± 662
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −23.68
Std Dev 21.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

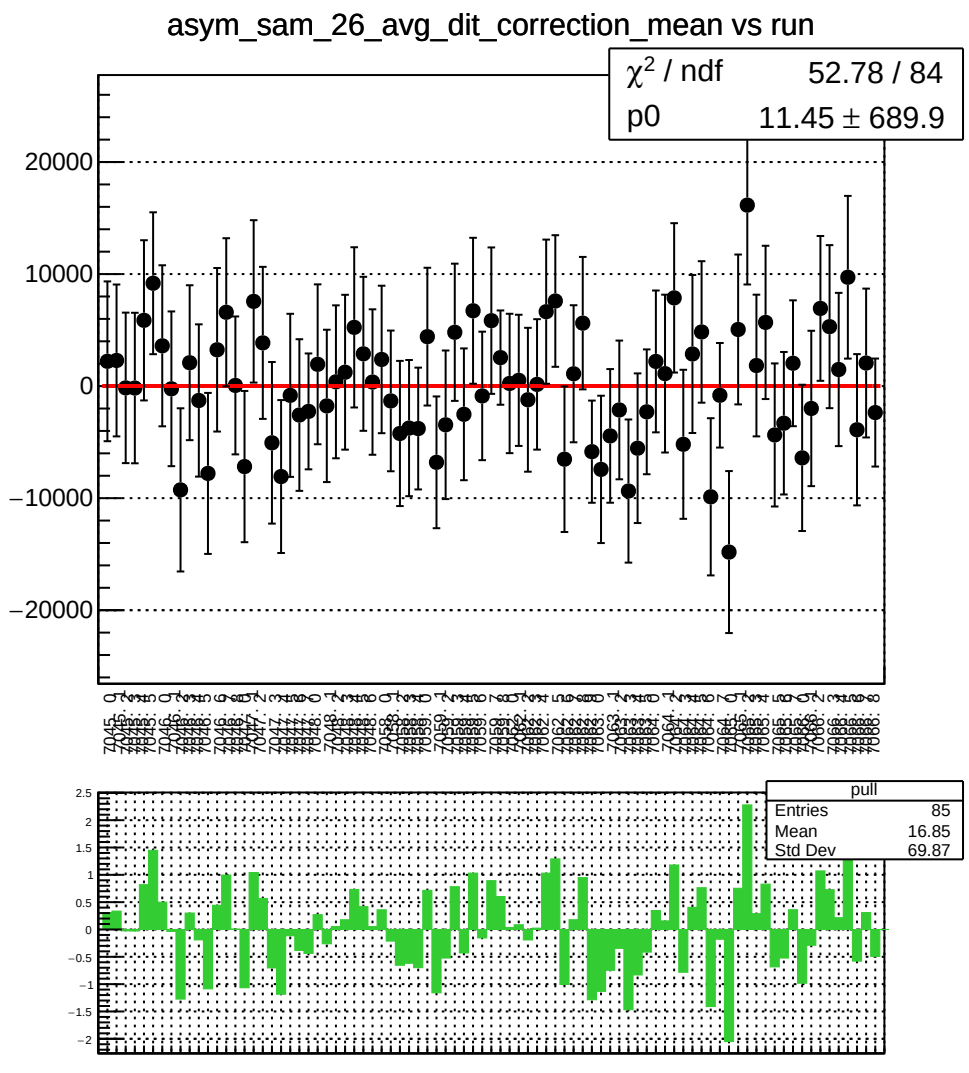

pull1D
Entries 85
Mean 0.01189
Std Dev 0.7956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

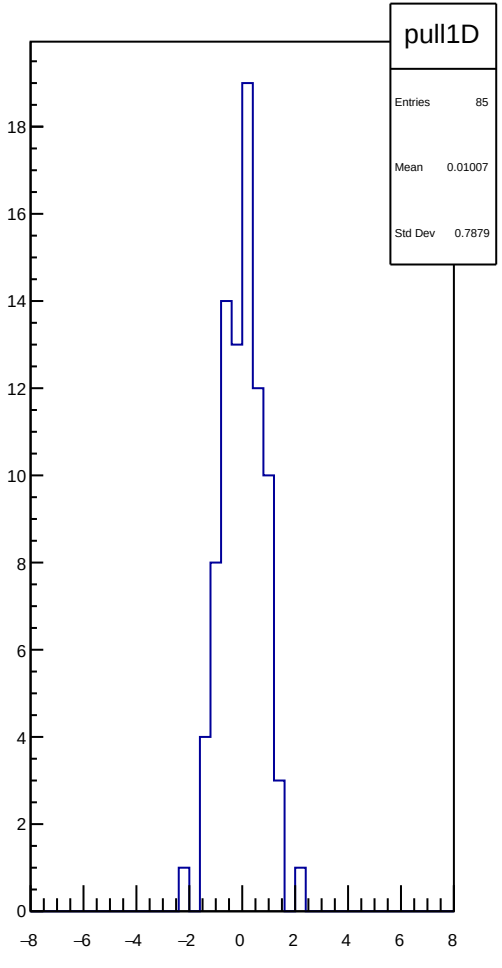

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 6800 / 84
p0 599.5 ± 0.4681
700
680
660
640
620
600
580
560
540
520

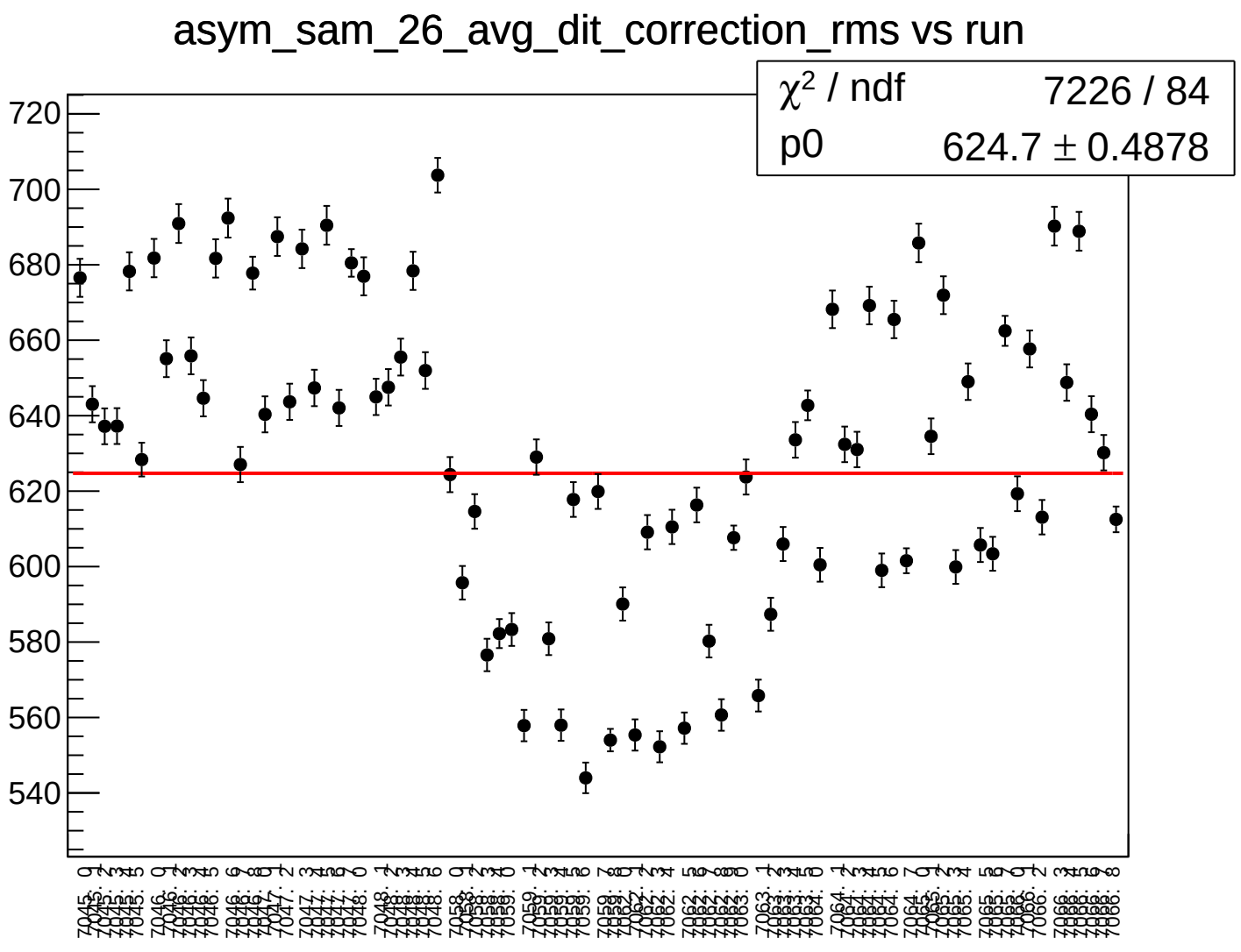

dit_asym_sam_26_avg_mean vs run
χ² / ndf 117.7 / 84
p0 0.716 ± 115.8
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −248.9
Std Dev 0
2
1
0
−1
−2
−3

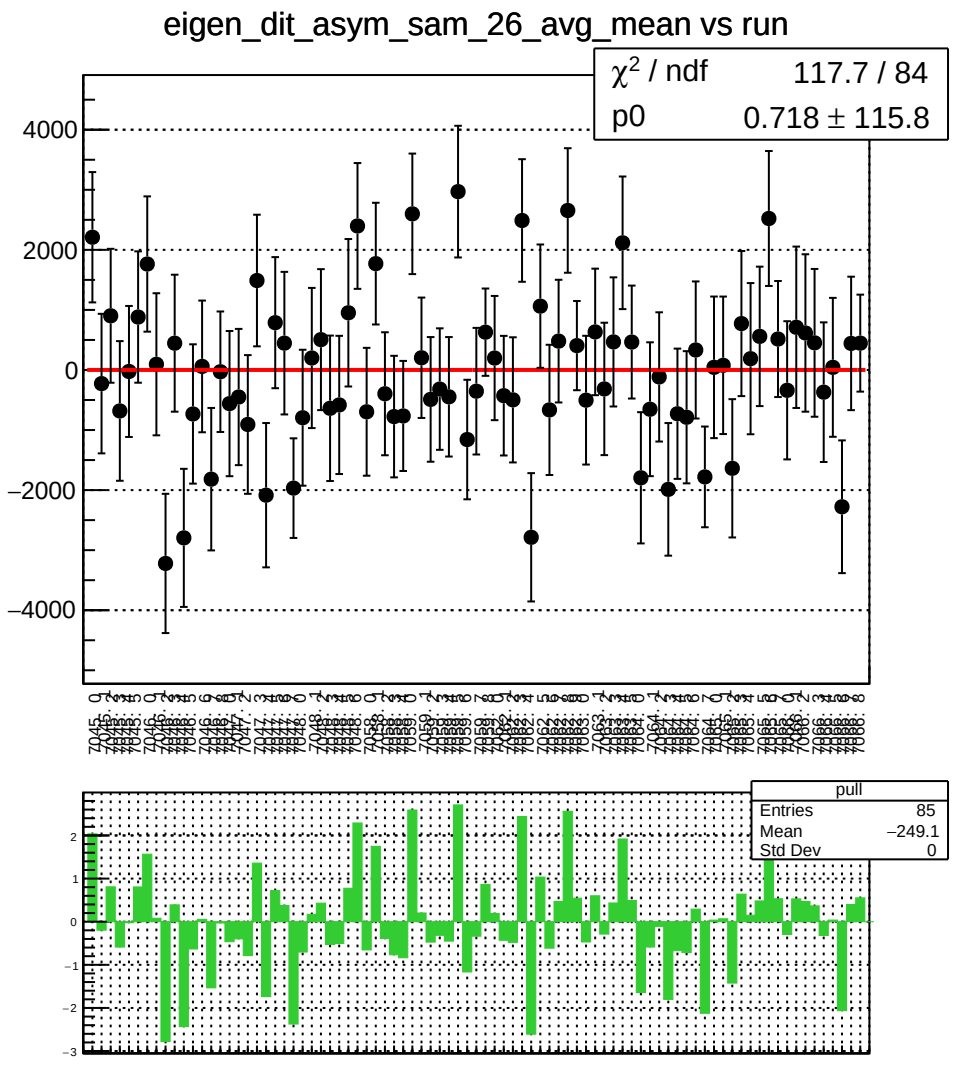

pull1D
Entries 85
Mean −0.003275
Std Dev 1.177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

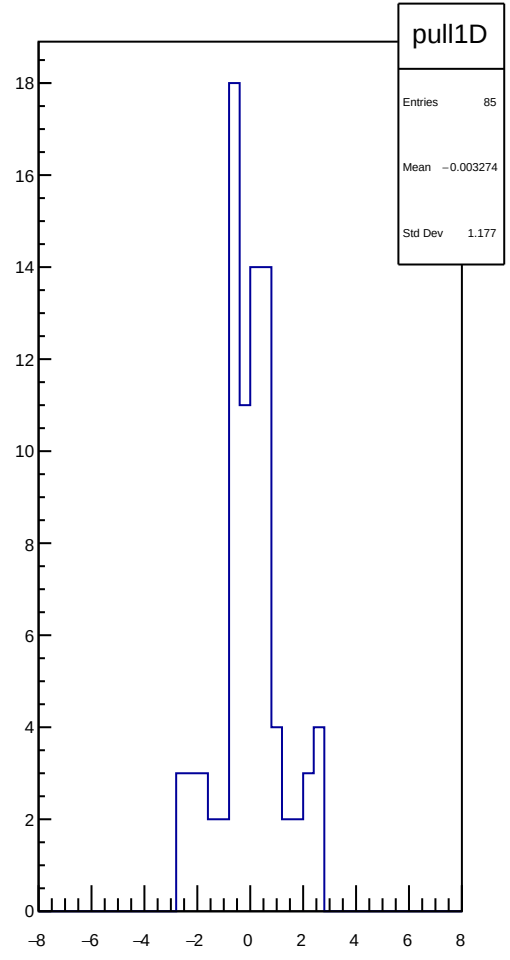

dit_asym_sam_26_avg_rms vs run
χ² / ndf 6656 / 84
p0 104.9 ± 0.0819
130
125
120
115
110
105
100
95

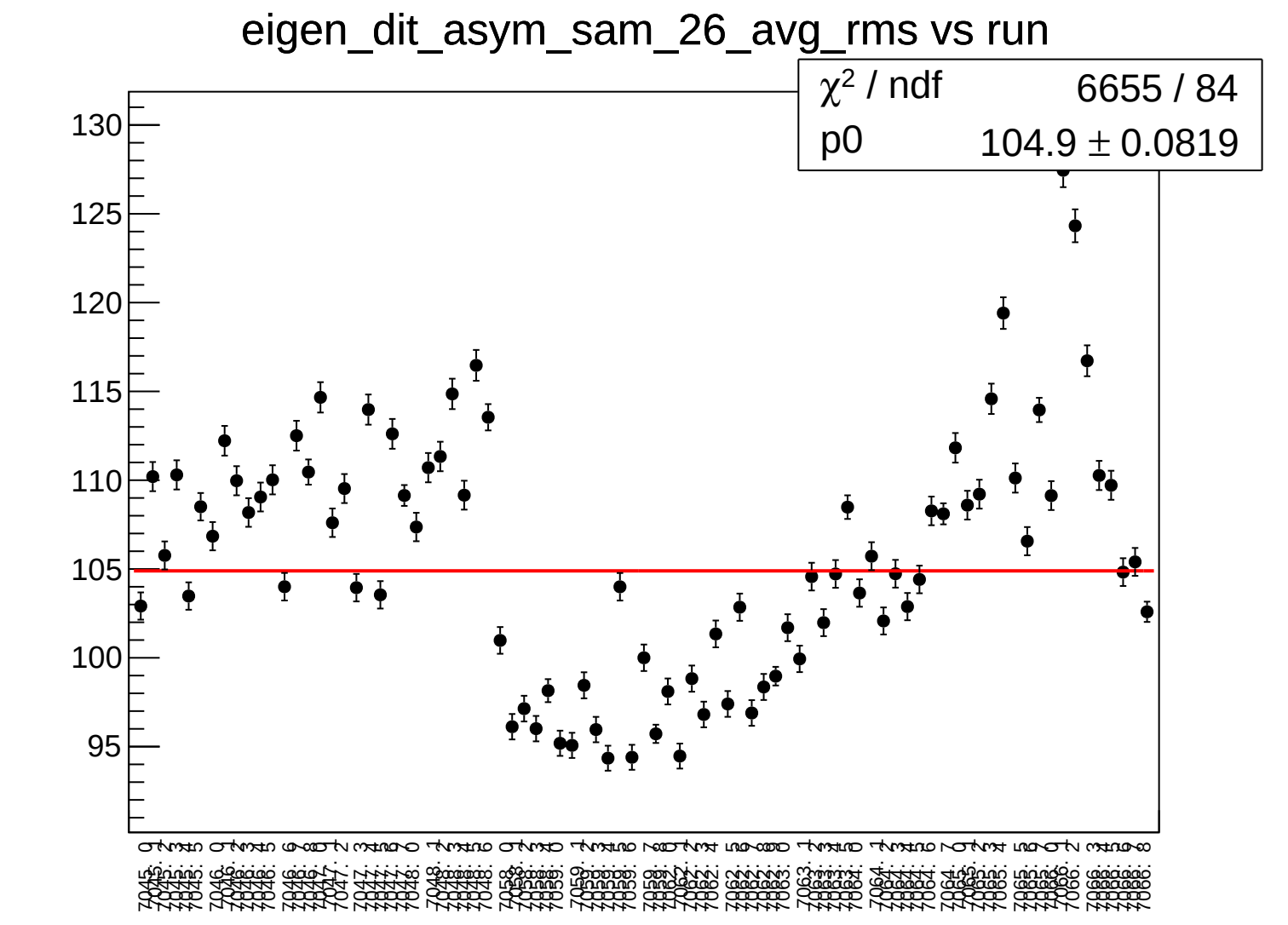

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 52.78 / 84
p0 11.45 ± 689.9
pull
Entries 85
Mean 16.85
Std Dev 69.87

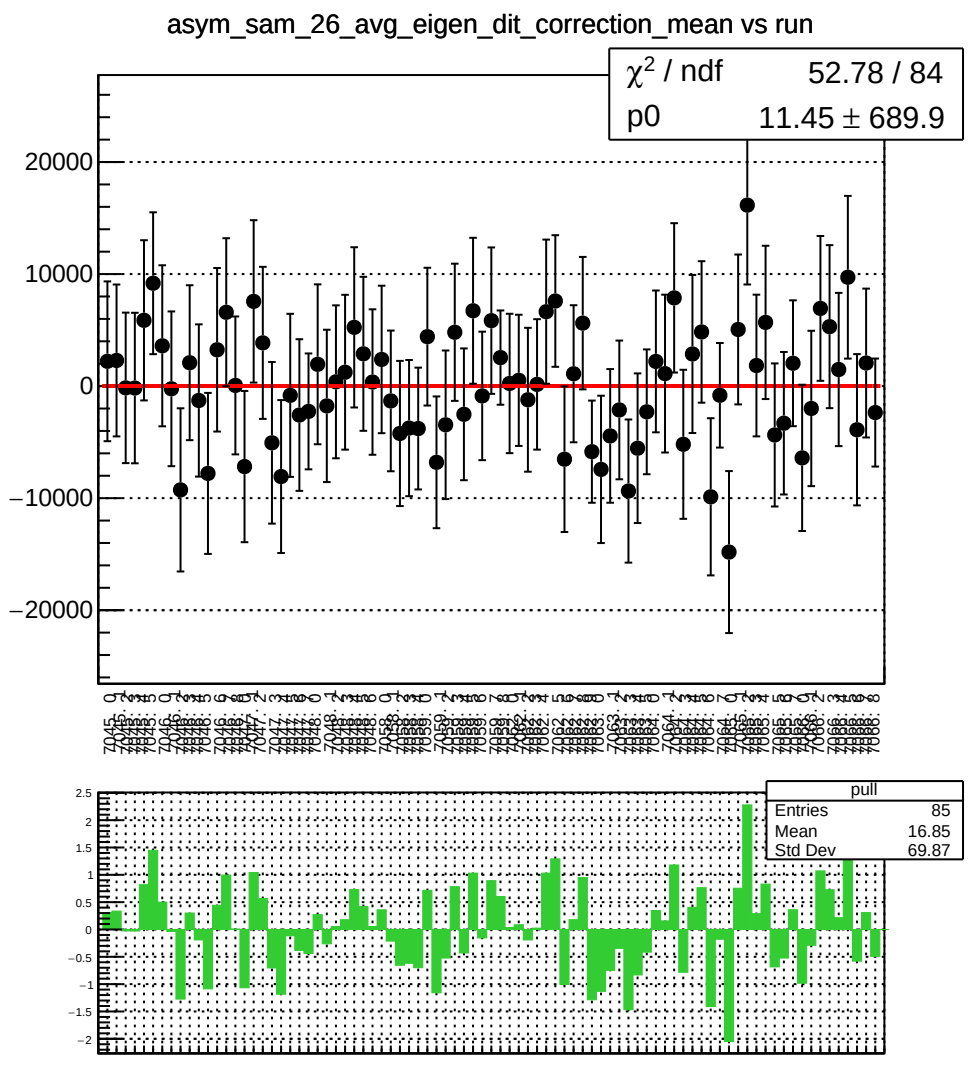

pull1D
Entries 85
Mean 0.01007
Std Dev 0.7879

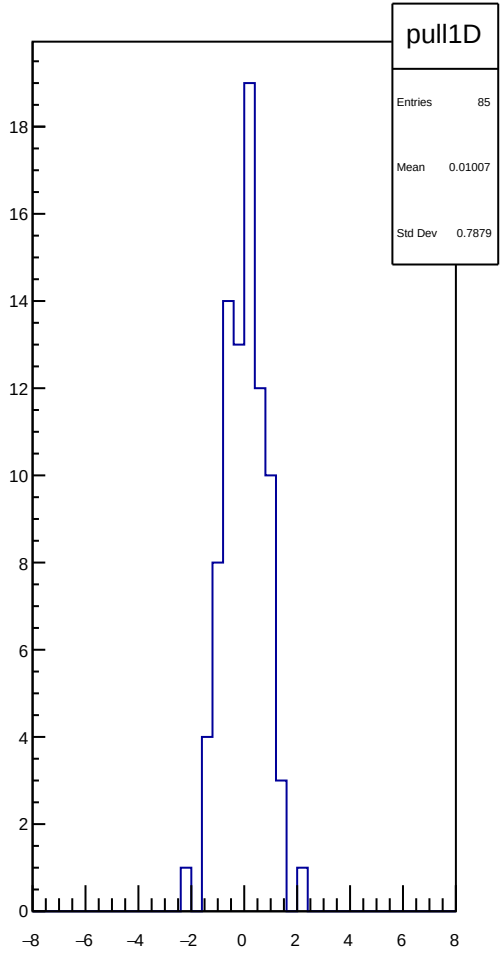

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 7226 / 84
p0 624.7 ± 0.4878
720
700
680
660
640
620
600
580
560
540

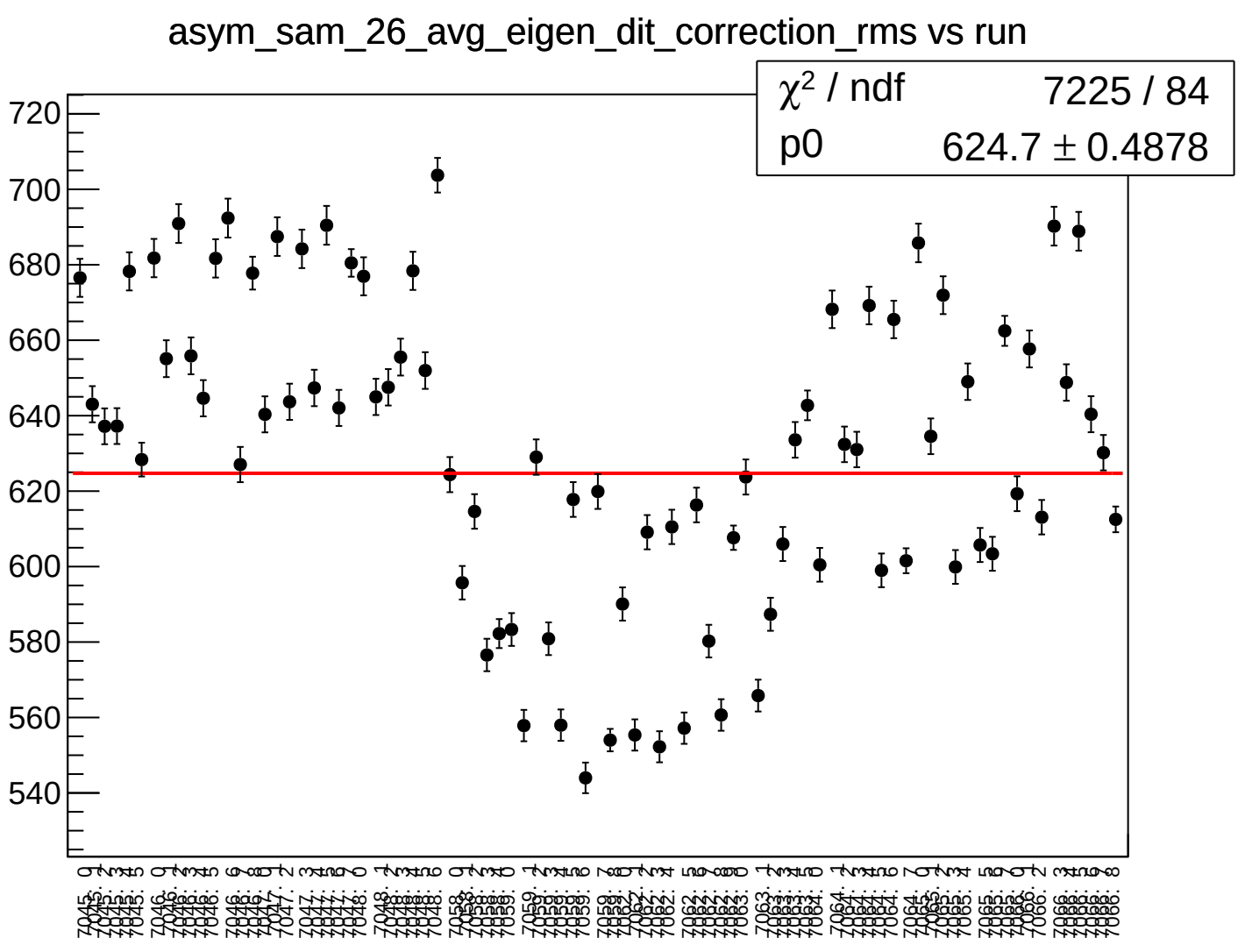

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 117.7 / 84
p0 0.718 ± 115.8
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −249.1
Std Dev 0
2
1
0
−1
−2
−3

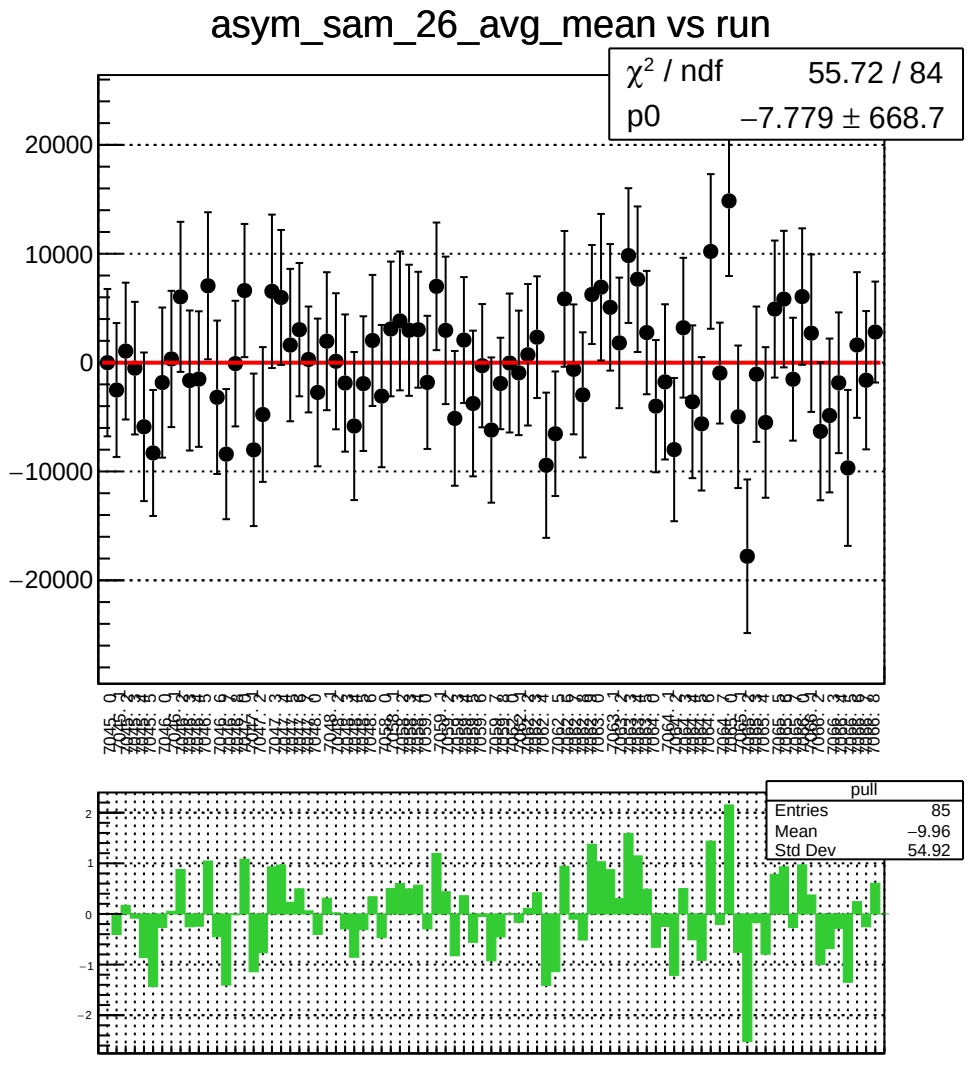

pull1D
Entries 85
Mean −0.003274
Std Dev 1.177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

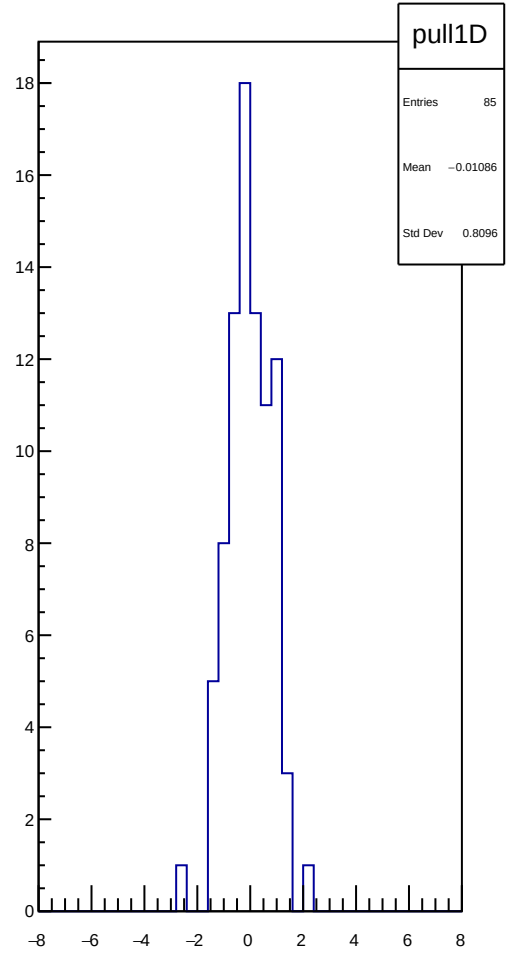

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 6655 / 84
p0 104.9 ± 0.0819
130
125
120
115
110
105
100
95

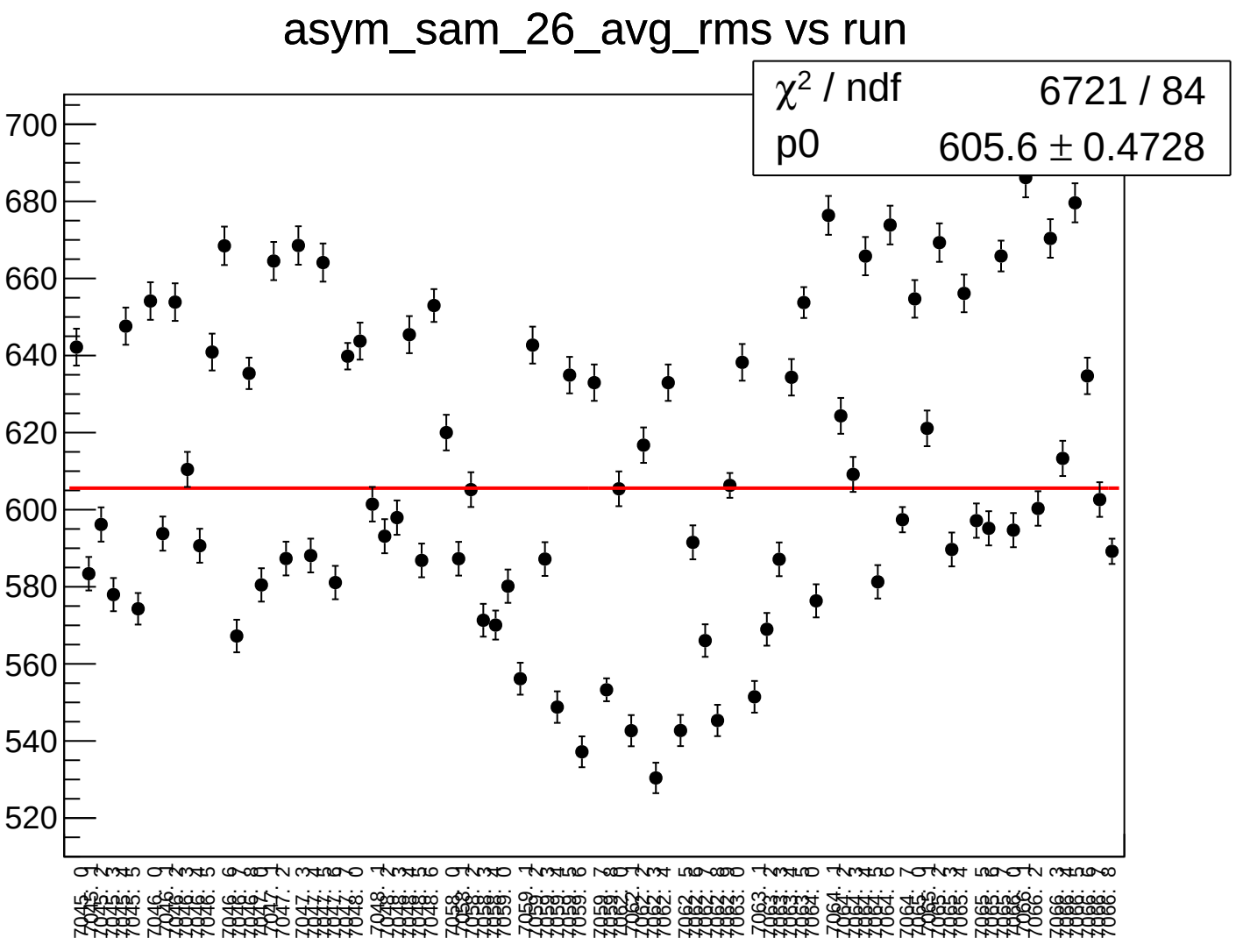

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 52.78 / 84
p0 11.45 ± 689.9
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 16.85
Std Dev 69.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

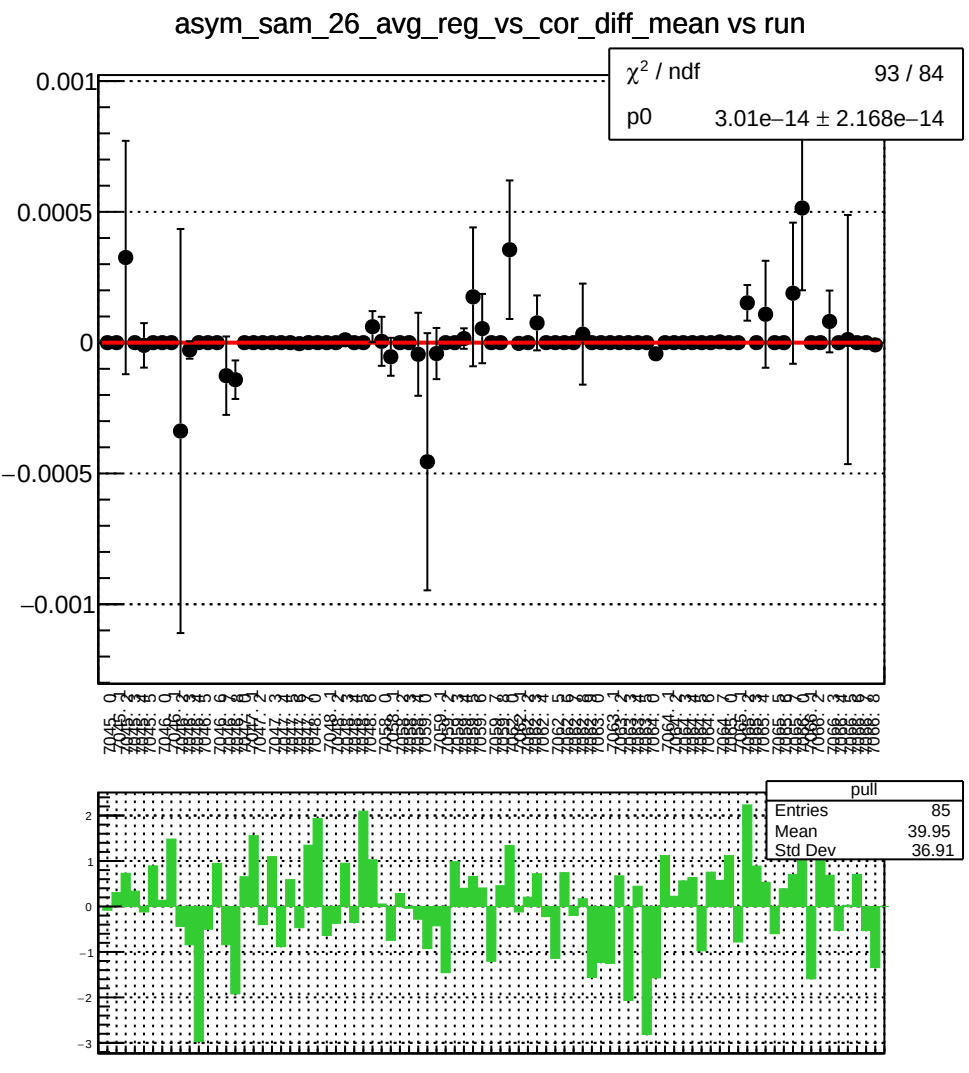

pull1D
Entries 85
Mean 0.01007
Std Dev 0.7879
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

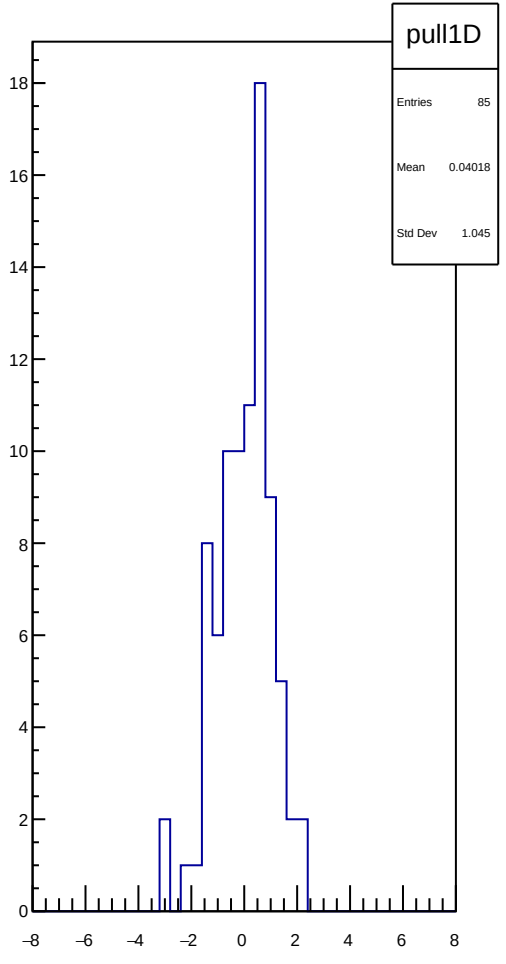

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 7225 / 84
p0 624.7 ± 0.4878
720
700
680
660
640
620
600
580
560
540

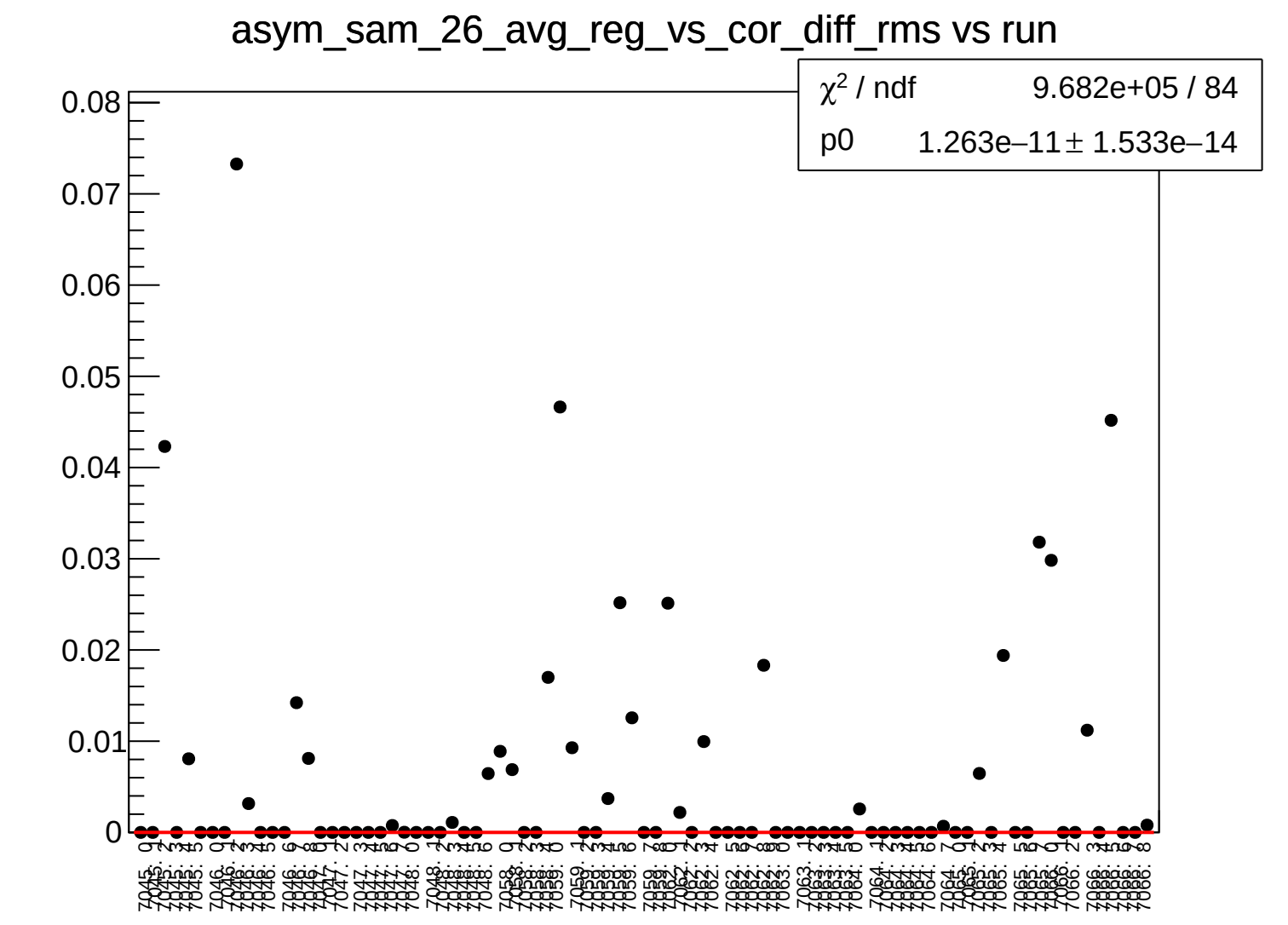

asym_sam_26_avg_mean vs run
χ² / ndf 55.72 / 84
p0 −7.779 ± 668.7
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −9.96
Std Dev 54.92
2
1
0
−1
−2

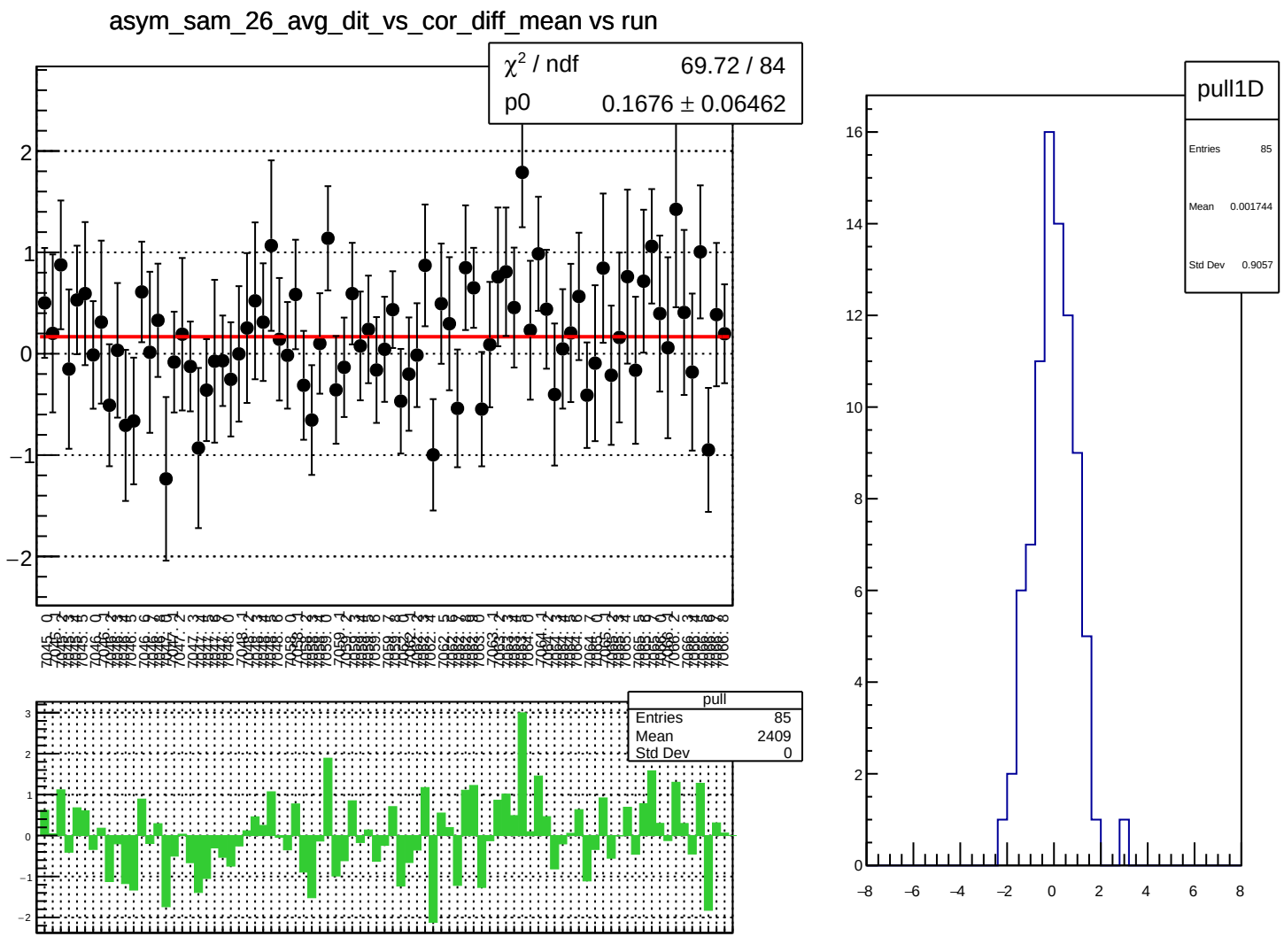

pull1D
Entries 85
Mean −0.01086
Std Dev 0.8096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

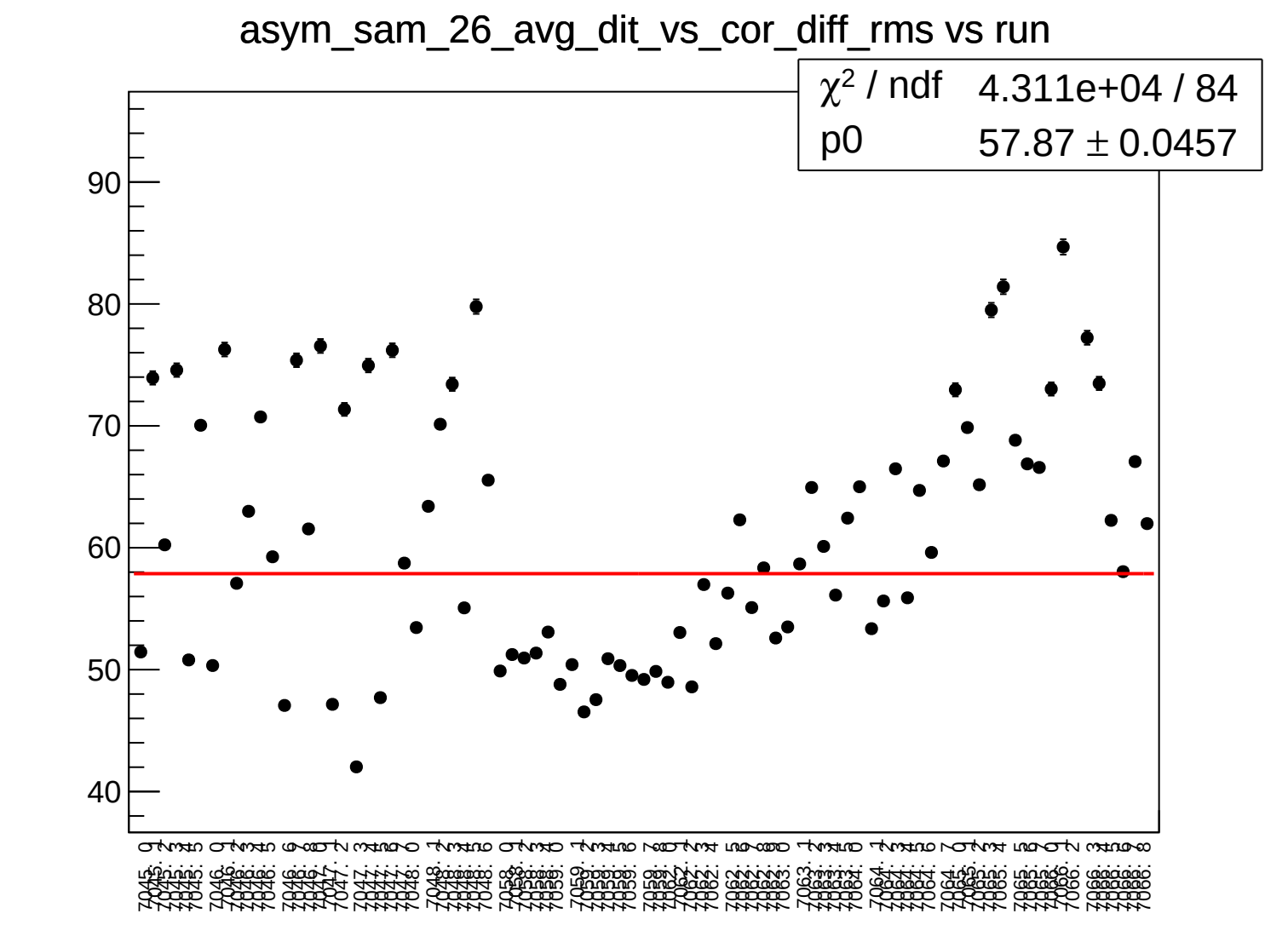

asym_sam_26_avg_rms vs run
χ² / ndf 6721 / 84
p0 605.6 ± 0.4728
700
680
660
640
620
600
580
560
540
520

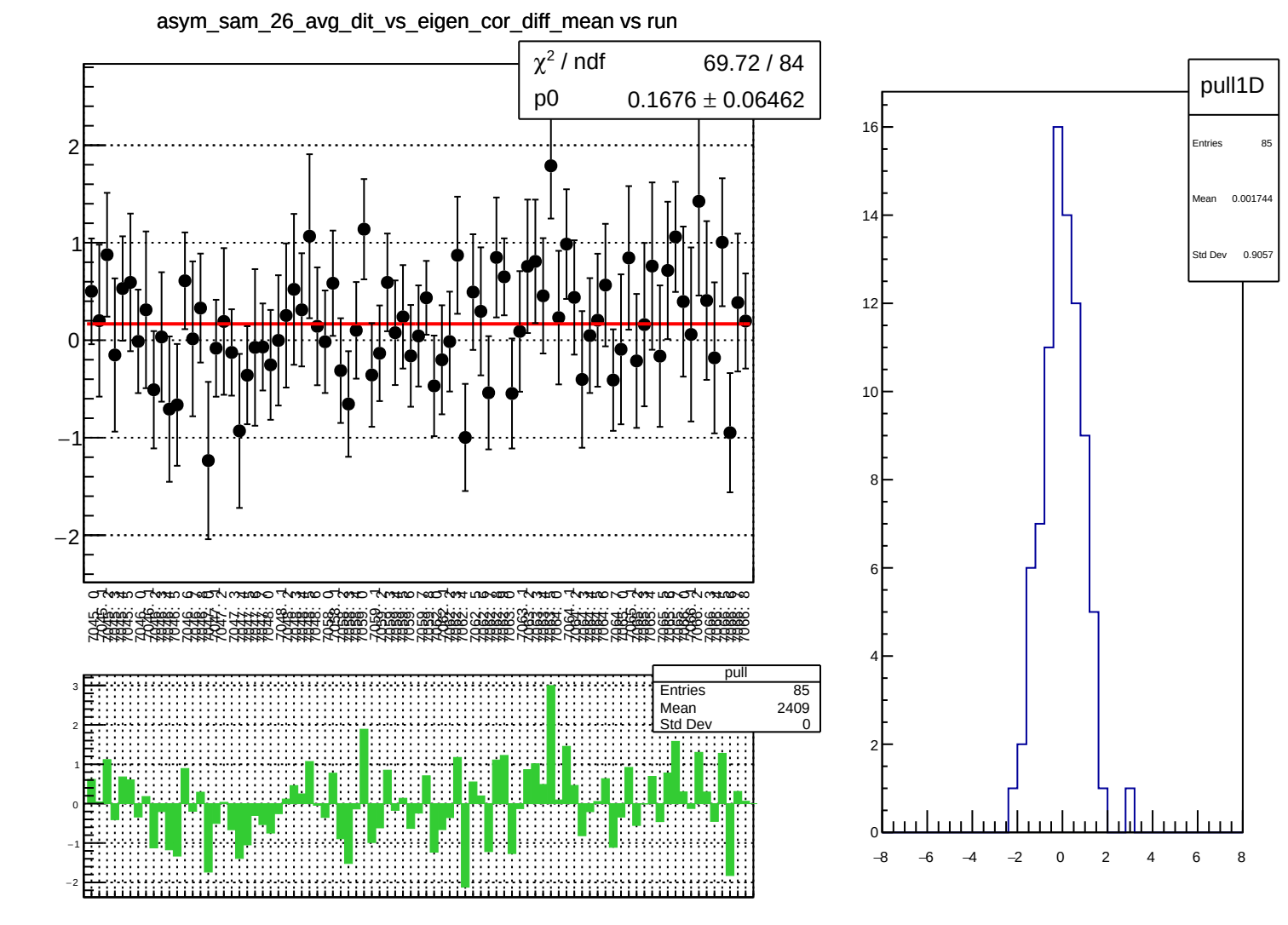

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93 / 84
p0 3.01e−14 ± 2.168e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 39.95
Std Dev 36.91

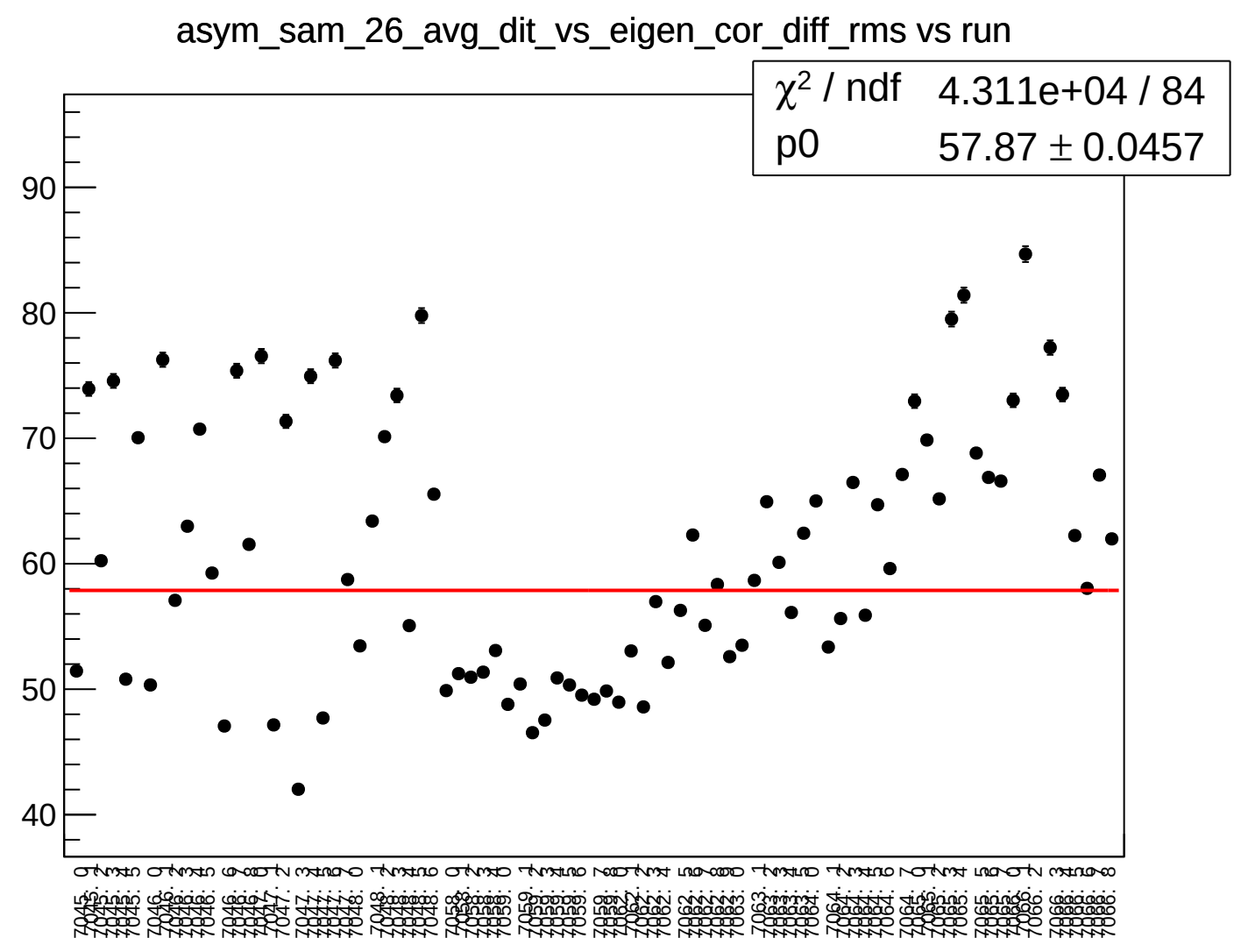

pull1D
Entries 85
Mean 0.04018
Std Dev 1.045

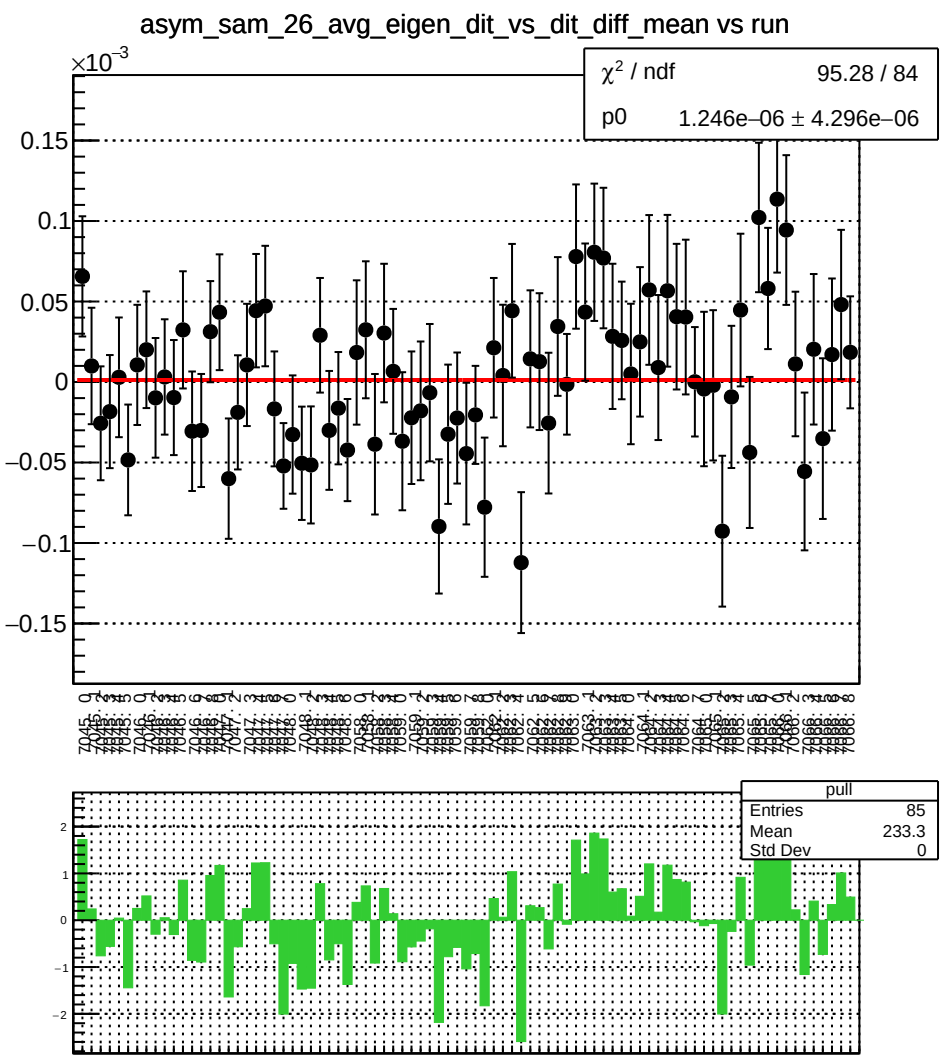

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.682e+05 / 84
p0 1.263e−11 ± 1.533e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

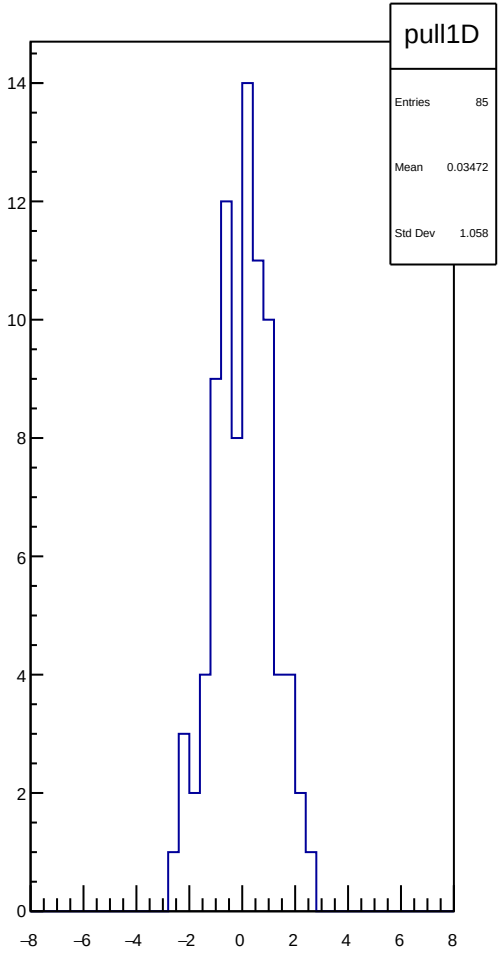

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.72 / 84
p0 0.1676 ± 0.06462
pull
Entries 85
Mean 2409
Std Dev 0
pull1D
Entries 85
Mean 0.001744
Std Dev 0.9057

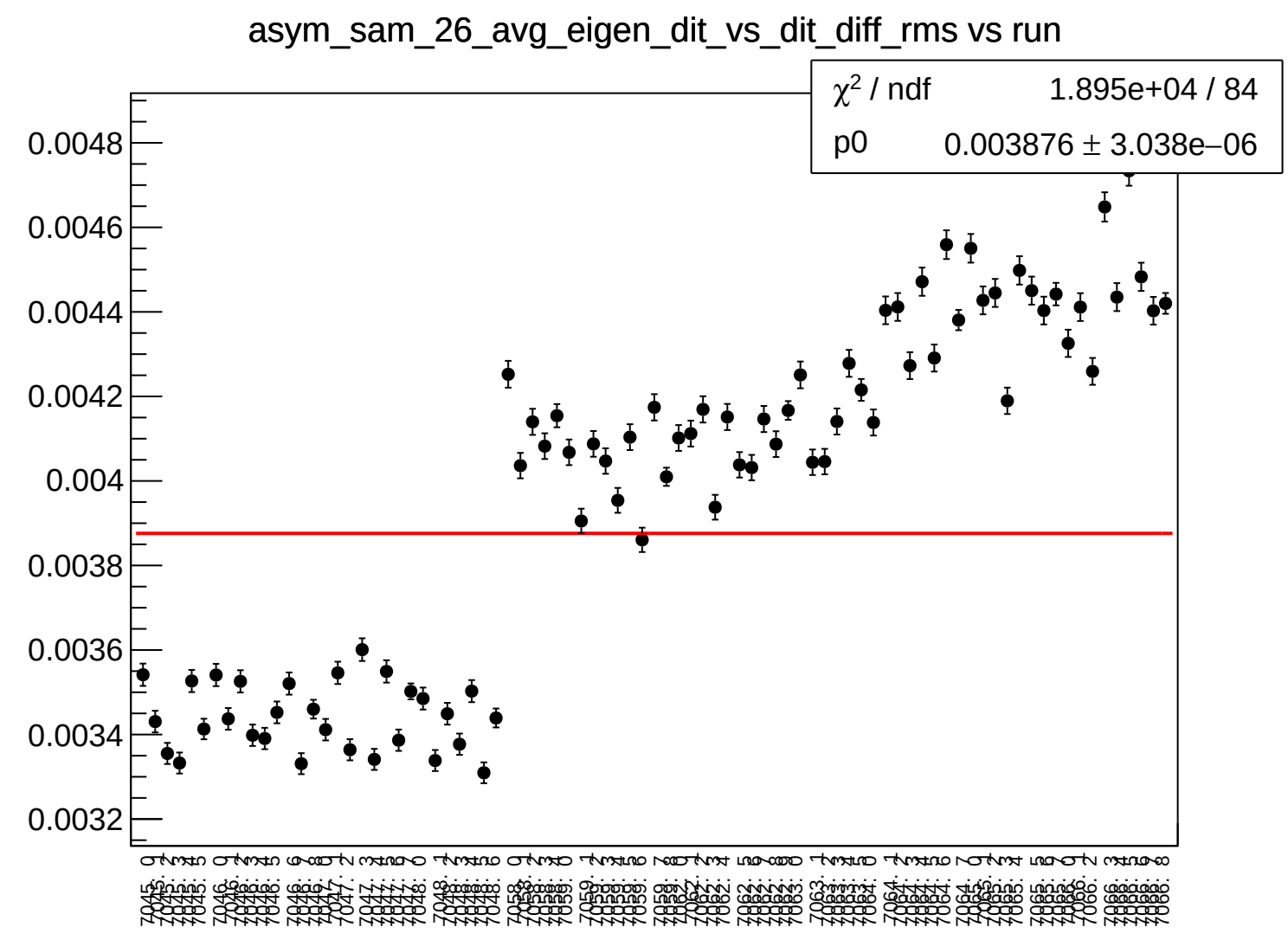

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.311e+04 / 84
p0 57.87 ± 0.0457
90
80
70
60
50
40

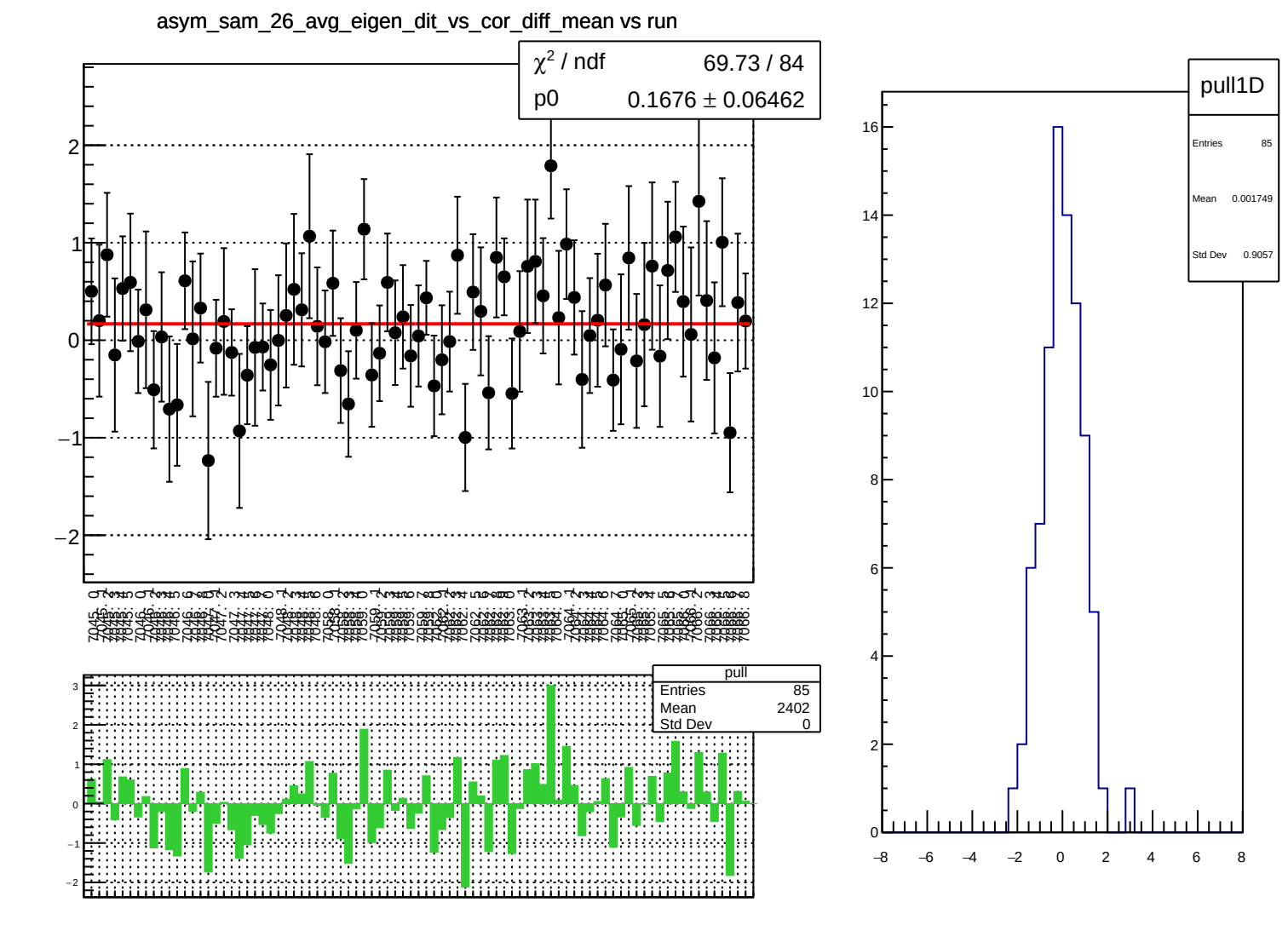

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.72 / 84
p0 0.1676 ± 0.06462
pull
Entries 85
Mean 2409
Std Dev 0
pull1D
Entries 85
Mean 0.001744
Std Dev 0.9057

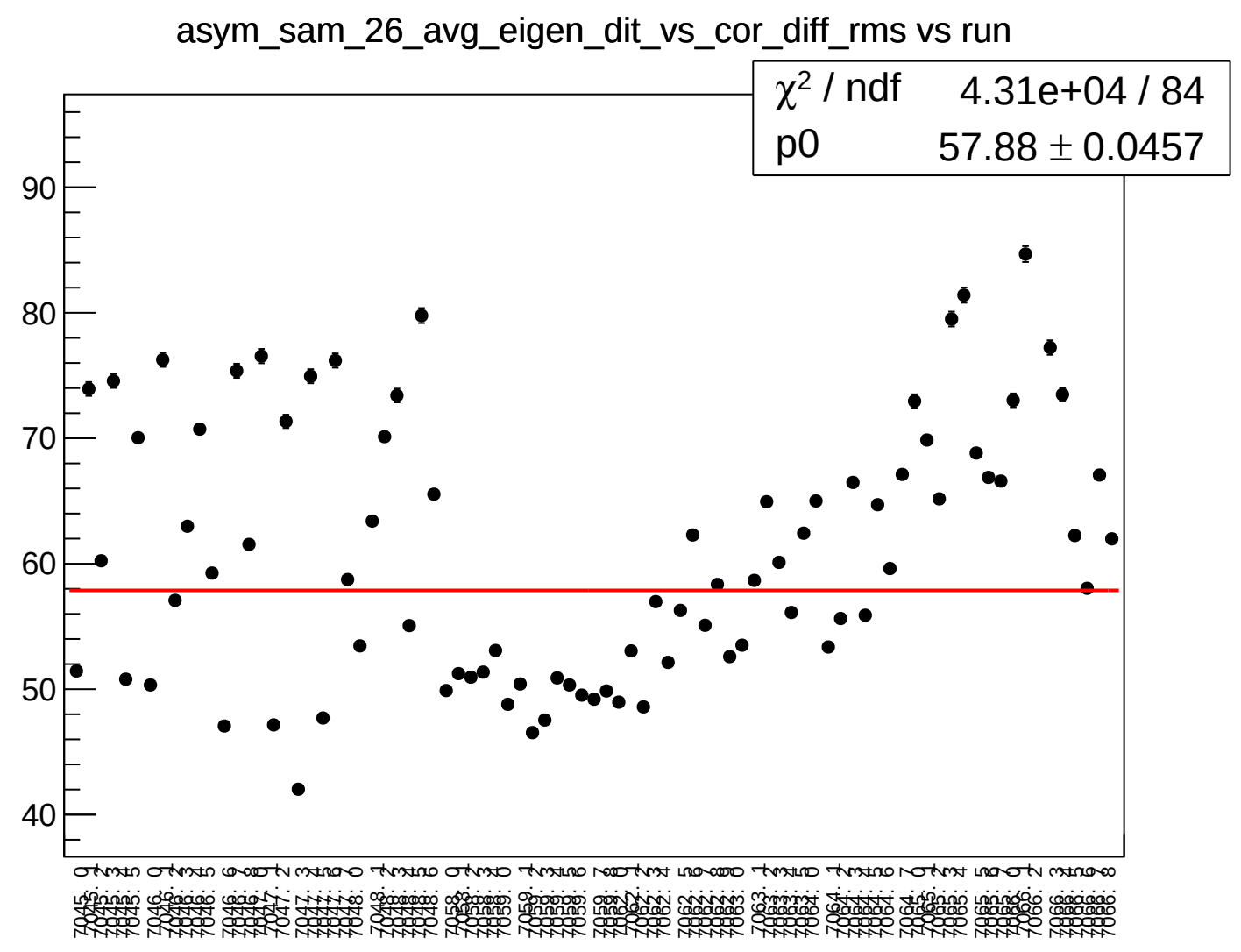

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.311e+04 / 84
p0 57.87 ± 0.0457
90
80
70
60
50
40

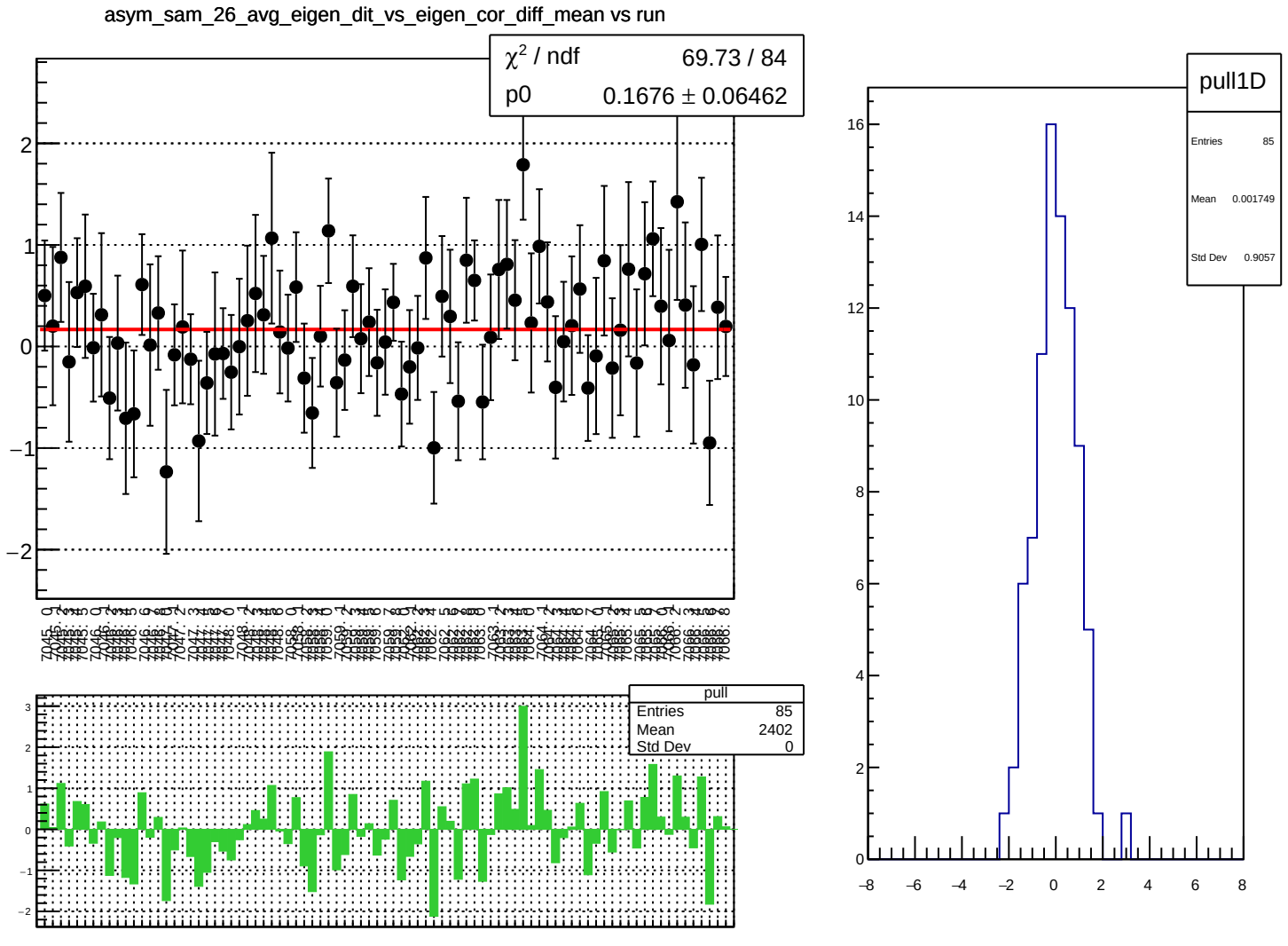

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.28 / 84
p0 1.246e−06 ± 4.296e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 233.3
Std Dev 0
2
1
0
−1
−2

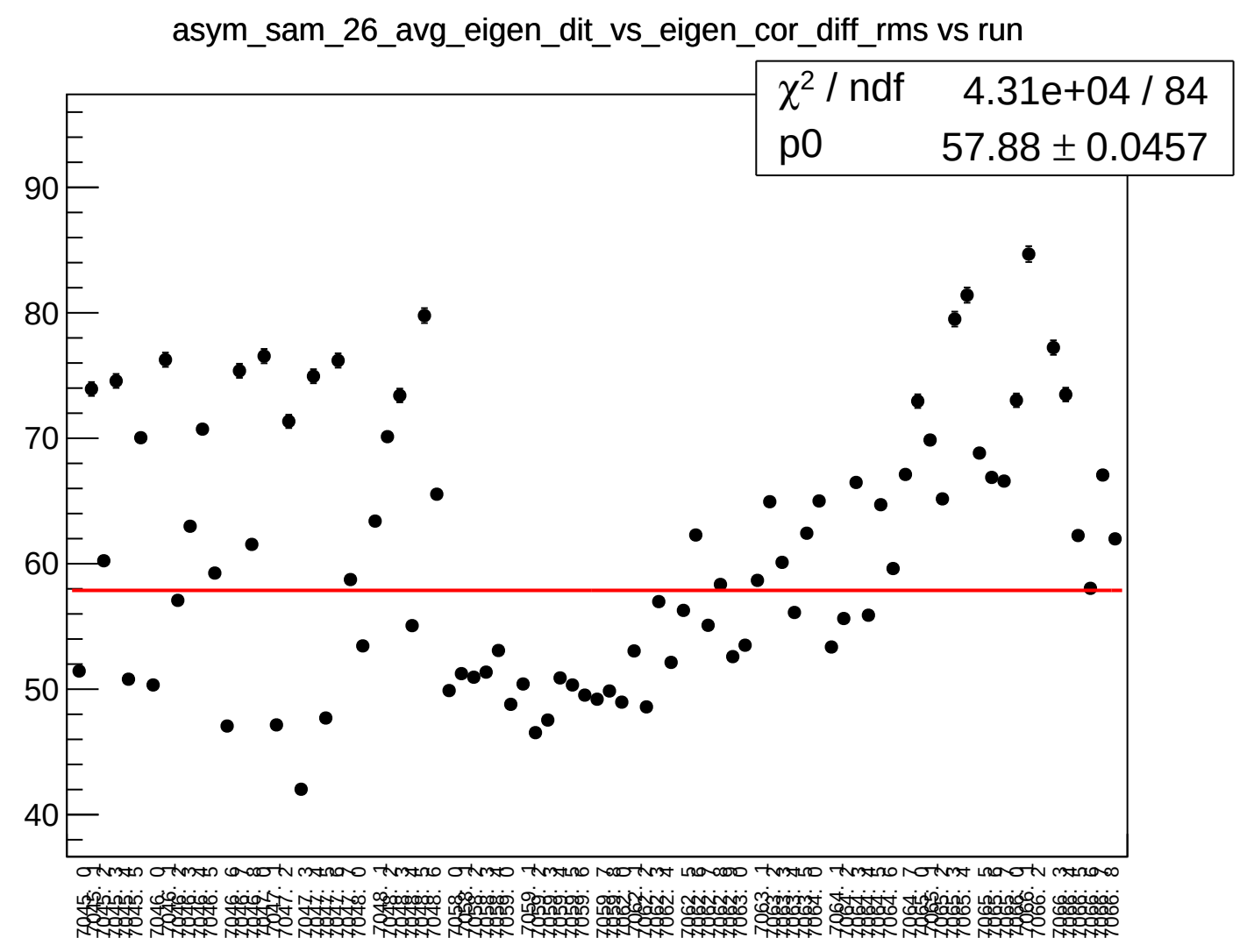

pull1D
Entries 85
Mean 0.03472
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

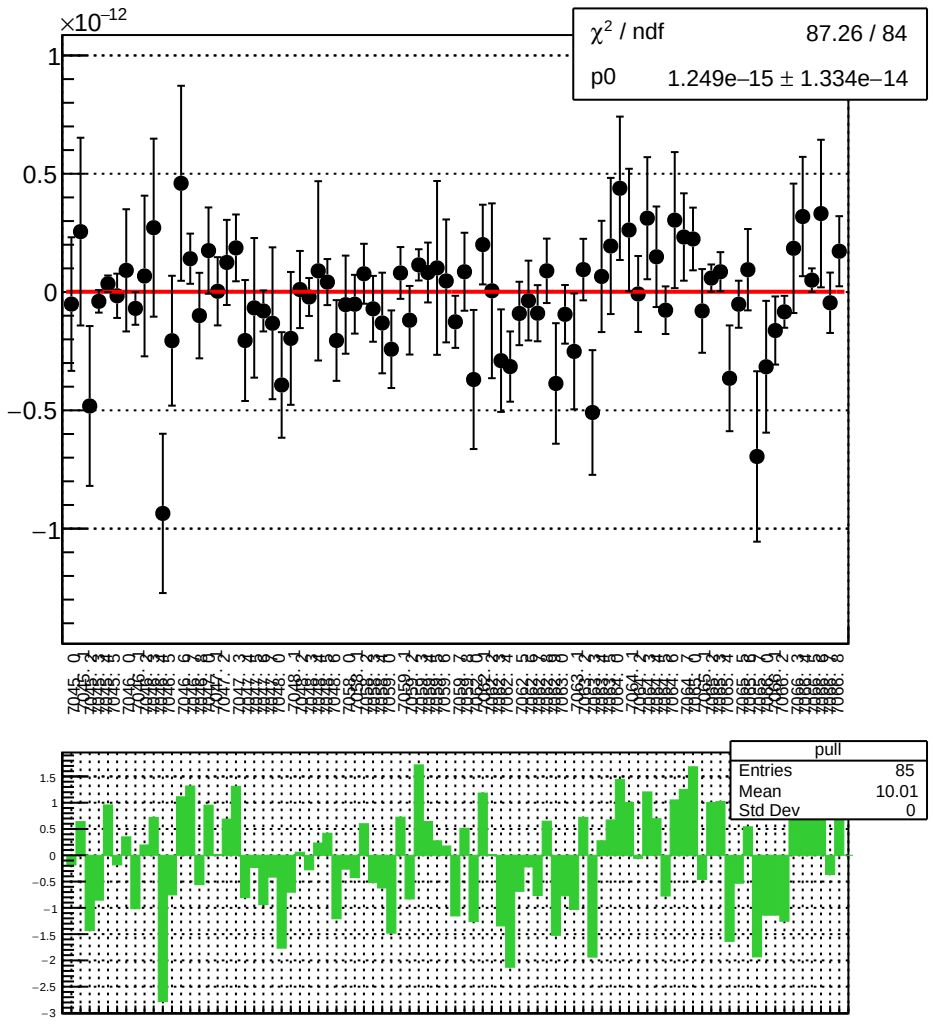

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.895e+04 / 84
p0 0.003876 ± 3.038e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

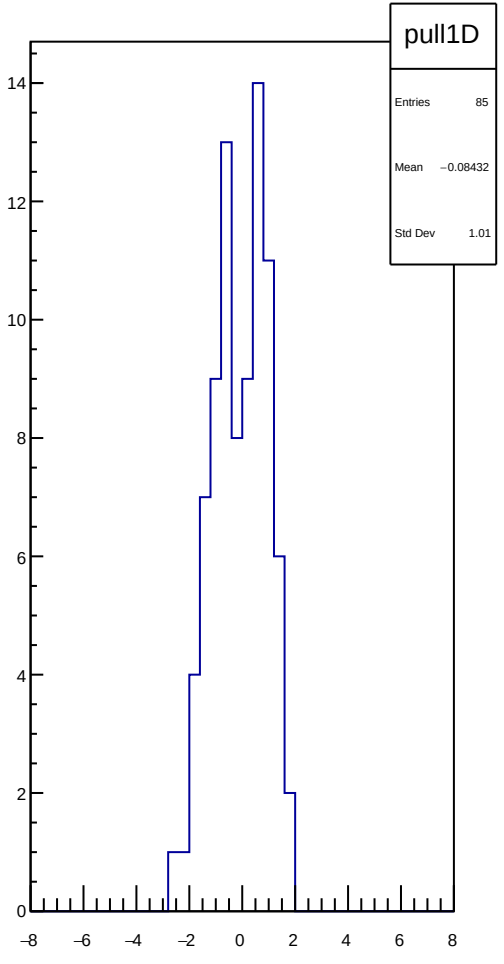

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 84
p0 0.1676 ± 0.06462
pull
Entries 85
Mean 2402
Std Dev 0
pull1D
Entries 85
Mean 0.001749
Std Dev 0.9057

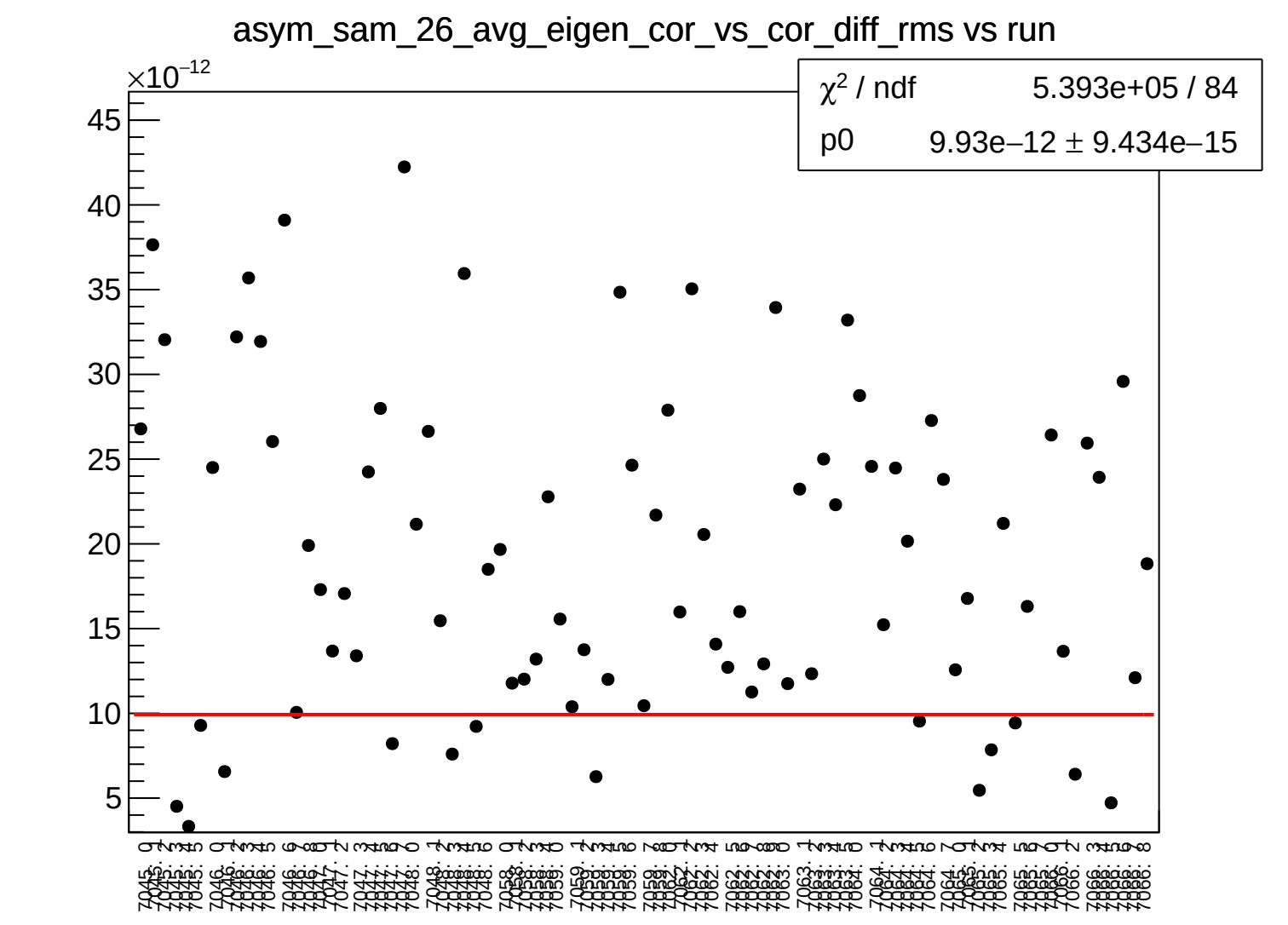

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.31e+04 / 84
p0 57.88 ± 0.0457
90
80
70
60
50
40

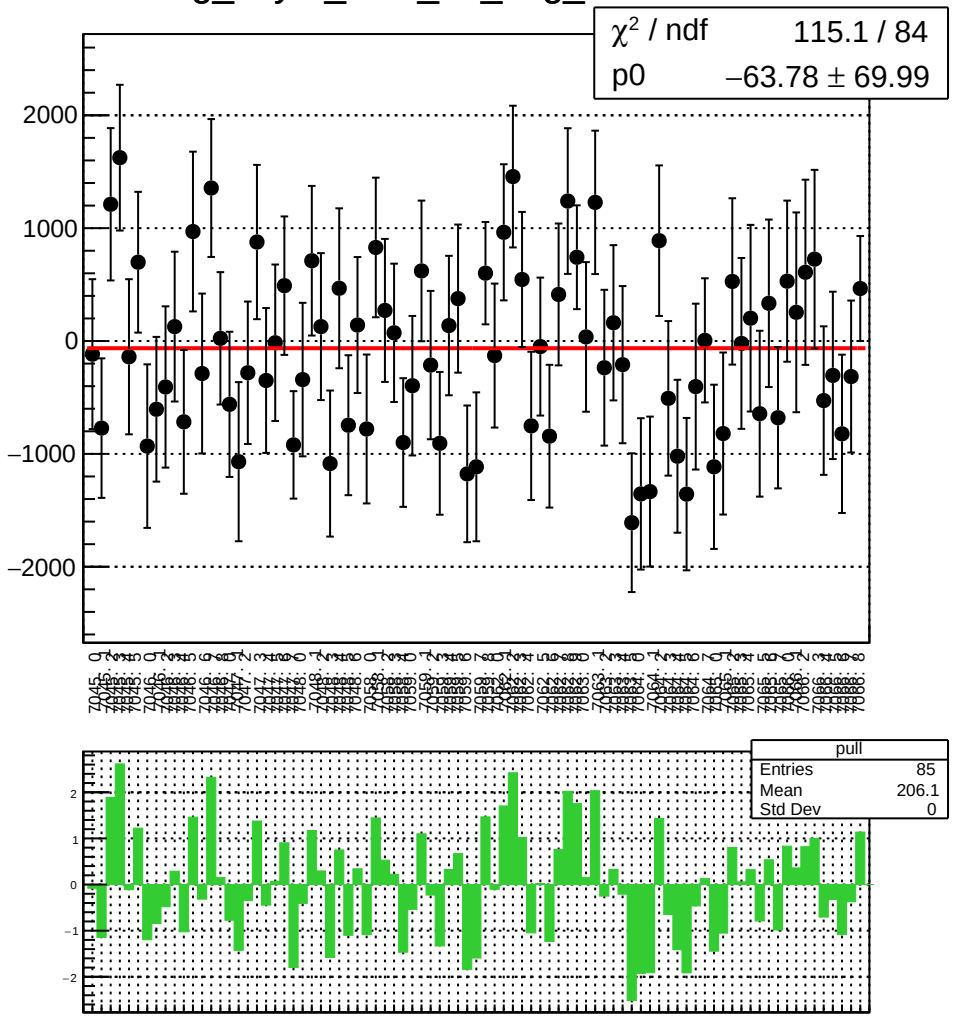

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 84
p0 0.1676 ± 0.06462
pull
Entries 85
Mean 2402
Std Dev 0
pull1D
Entries 85
Mean 0.001749
Std Dev 0.9057

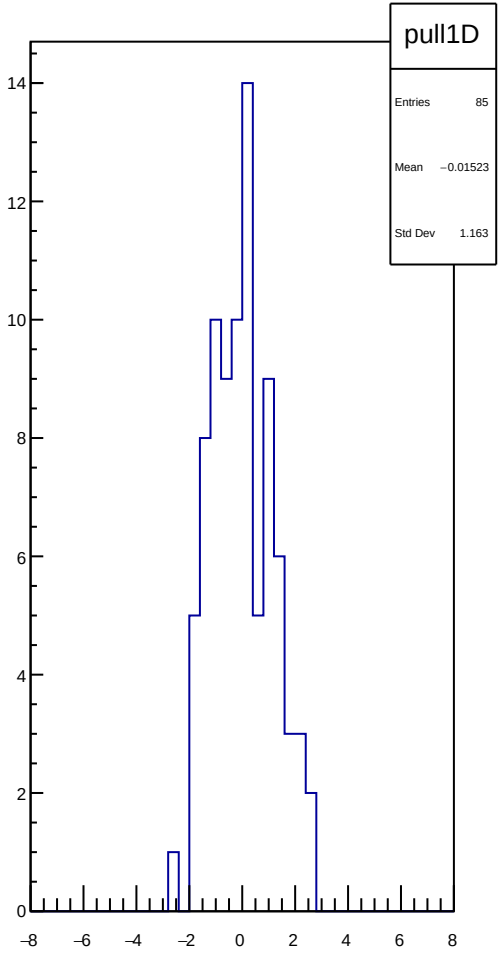

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.31e+04 / 84
p0 57.88 ± 0.0457
90
80
70
60
50
40

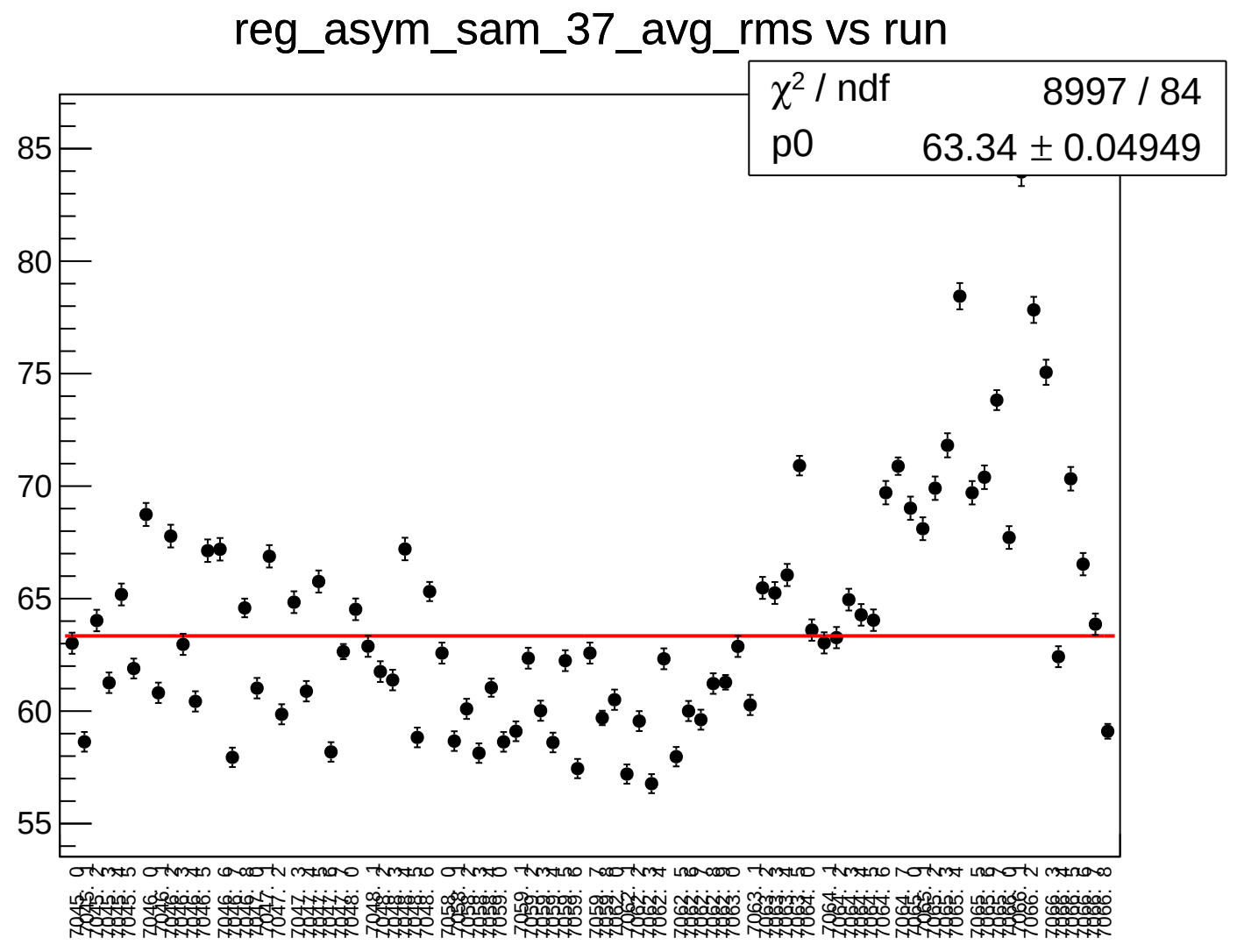

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.26 / 84
p0 1.249e−15 ± 1.334e−14
pull
Entries 85
Mean 10.01
Std Dev 0

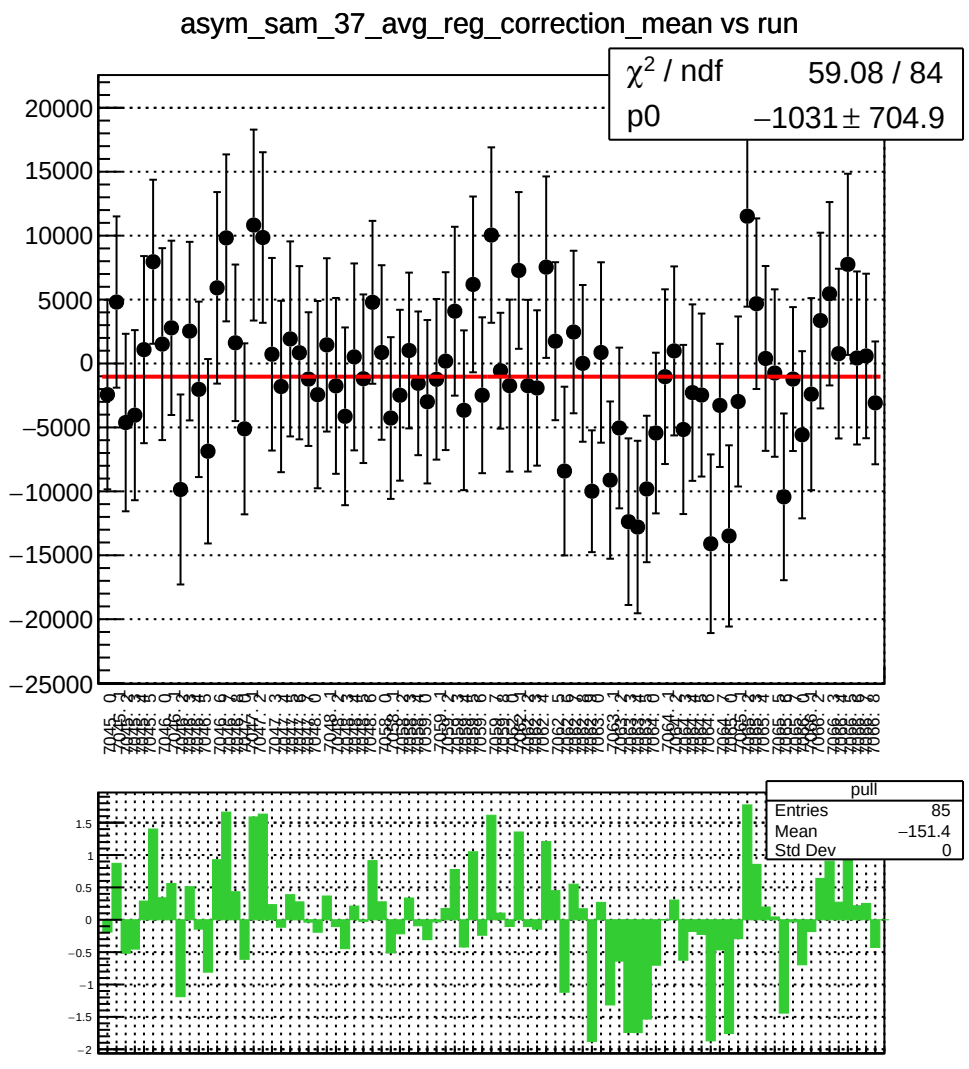

pull1D
Entries 85
Mean −0.08432
Std Dev 1.01

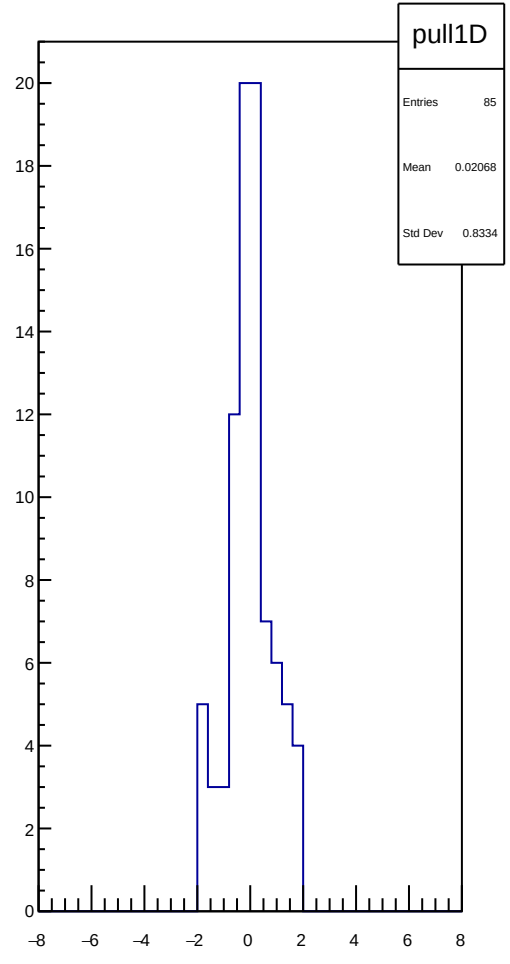

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.393e+05 / 84
p0 9.93e−12 ± 9.434e−15
45
40
35
30
25
20
15
10
5

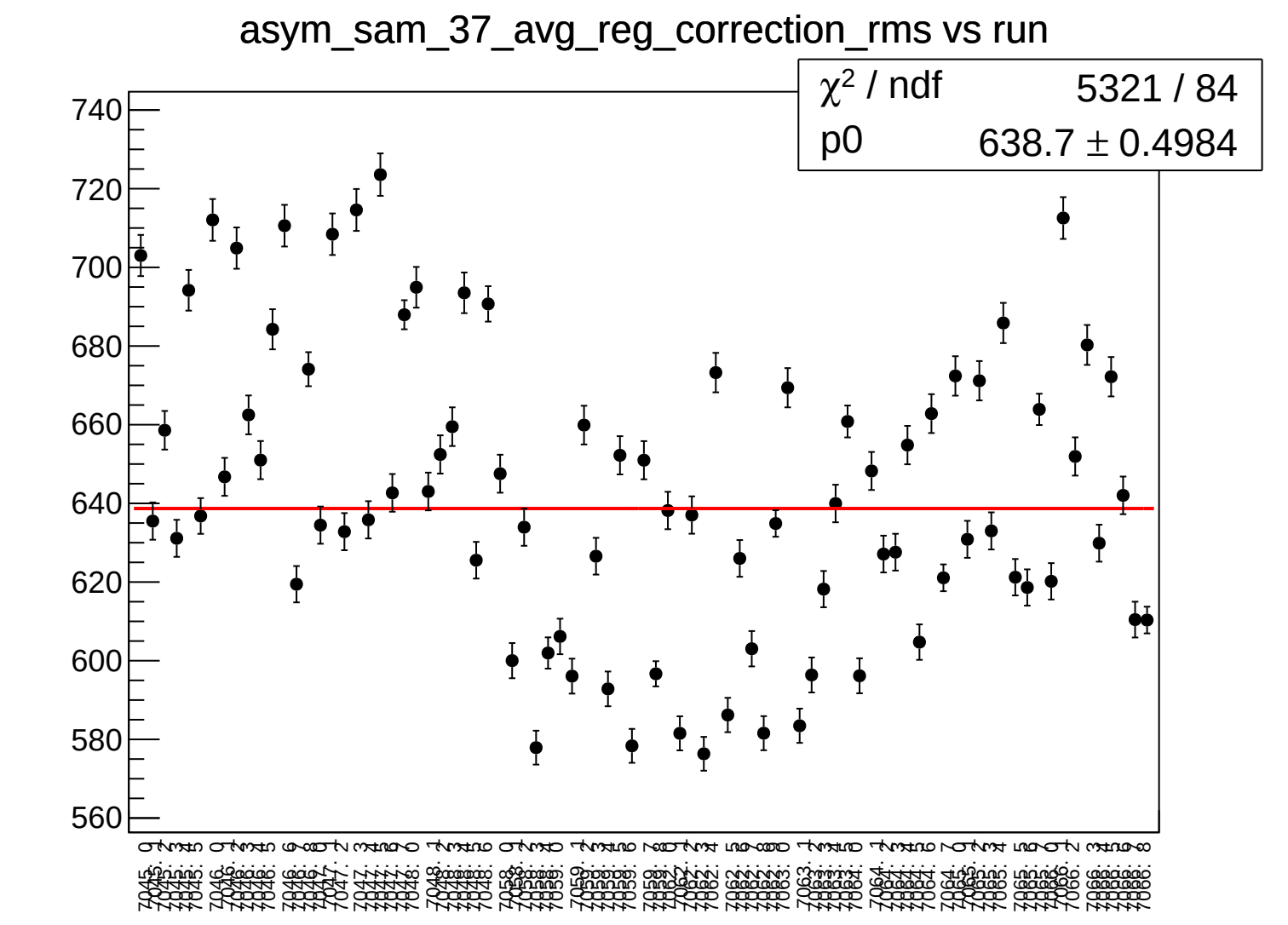

reg_asym_sam_37_avg_mean vs run
χ² / ndf 115.1 / 84
p0 −63.78 ± 69.99
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 206.1
Std Dev 0
2
1
0
−1
−2

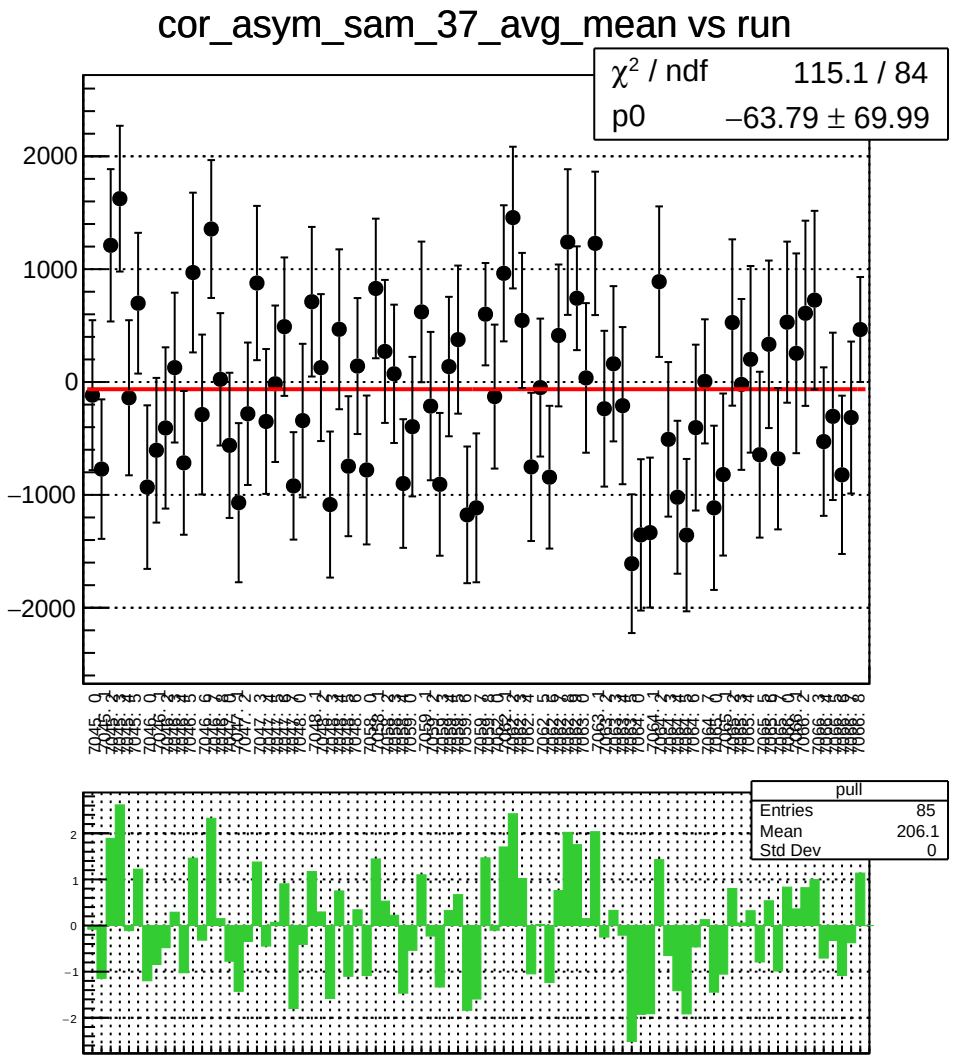

pull1D
Entries 85
Mean −0.01523
Std Dev 1.163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

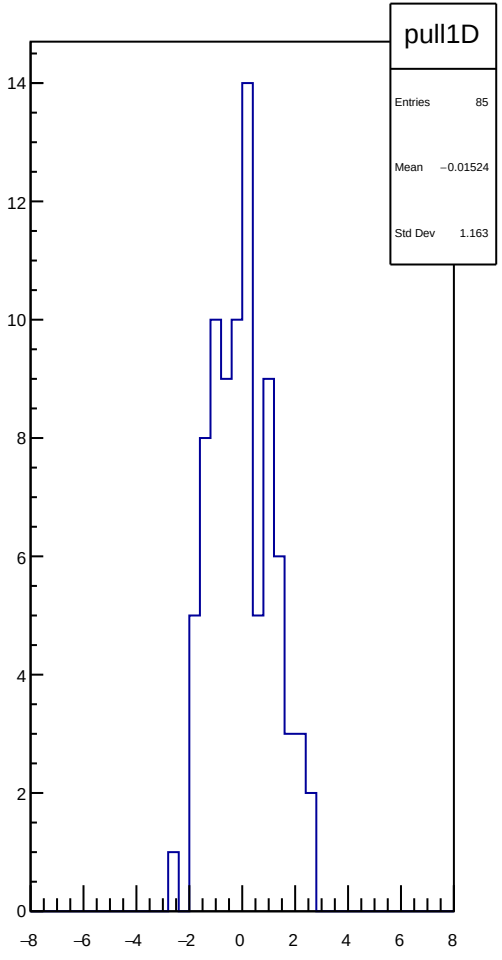

reg_asym_sam_37_avg_rms vs run
χ² / ndf 8997 / 84
p0 63.34 ± 0.04949
85
80
75
70
65
60
55

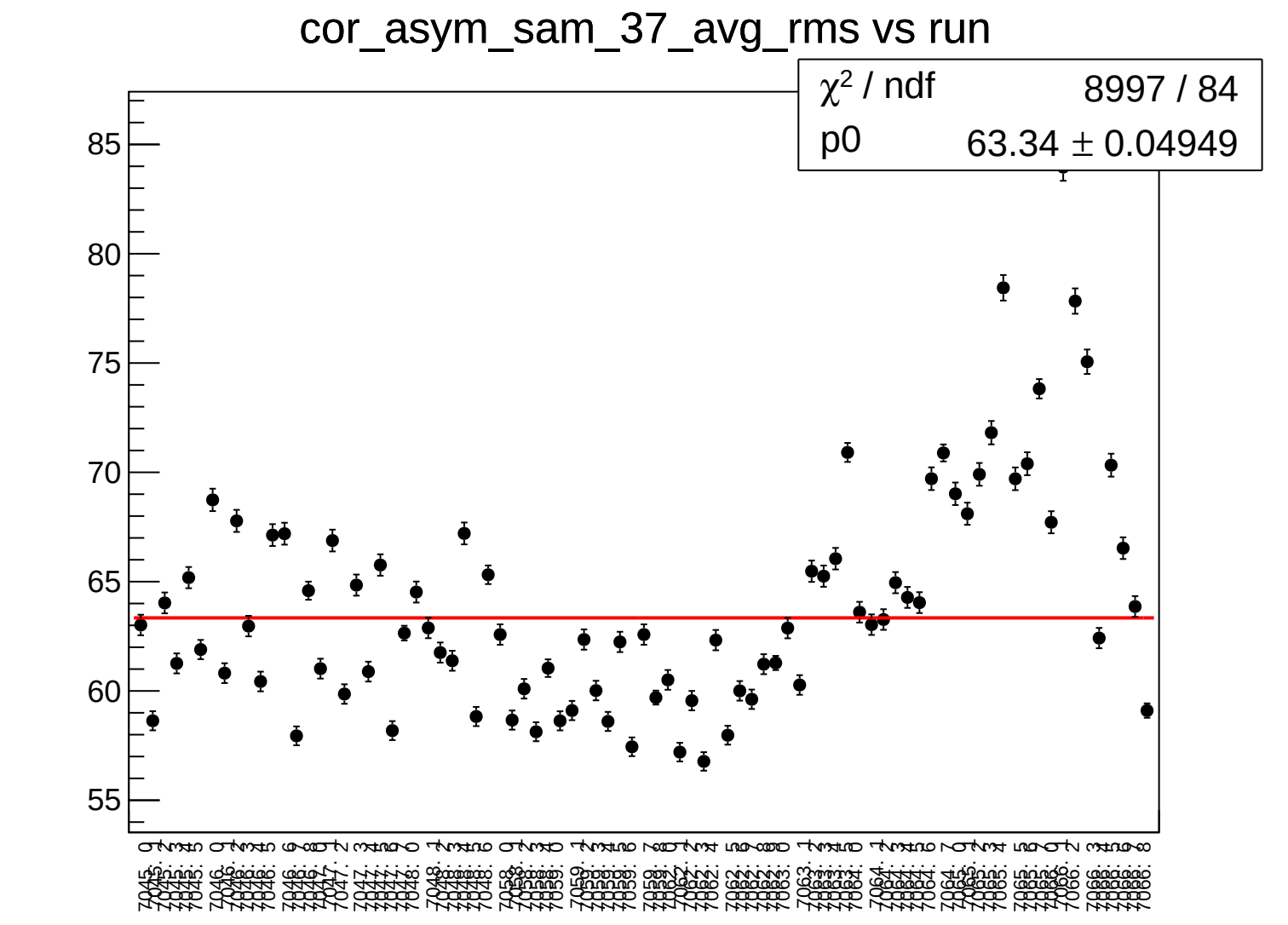

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 59.08 / 84
p0 −1031 ± 704.9
pull
Entries 85
Mean −151.4
Std Dev 0

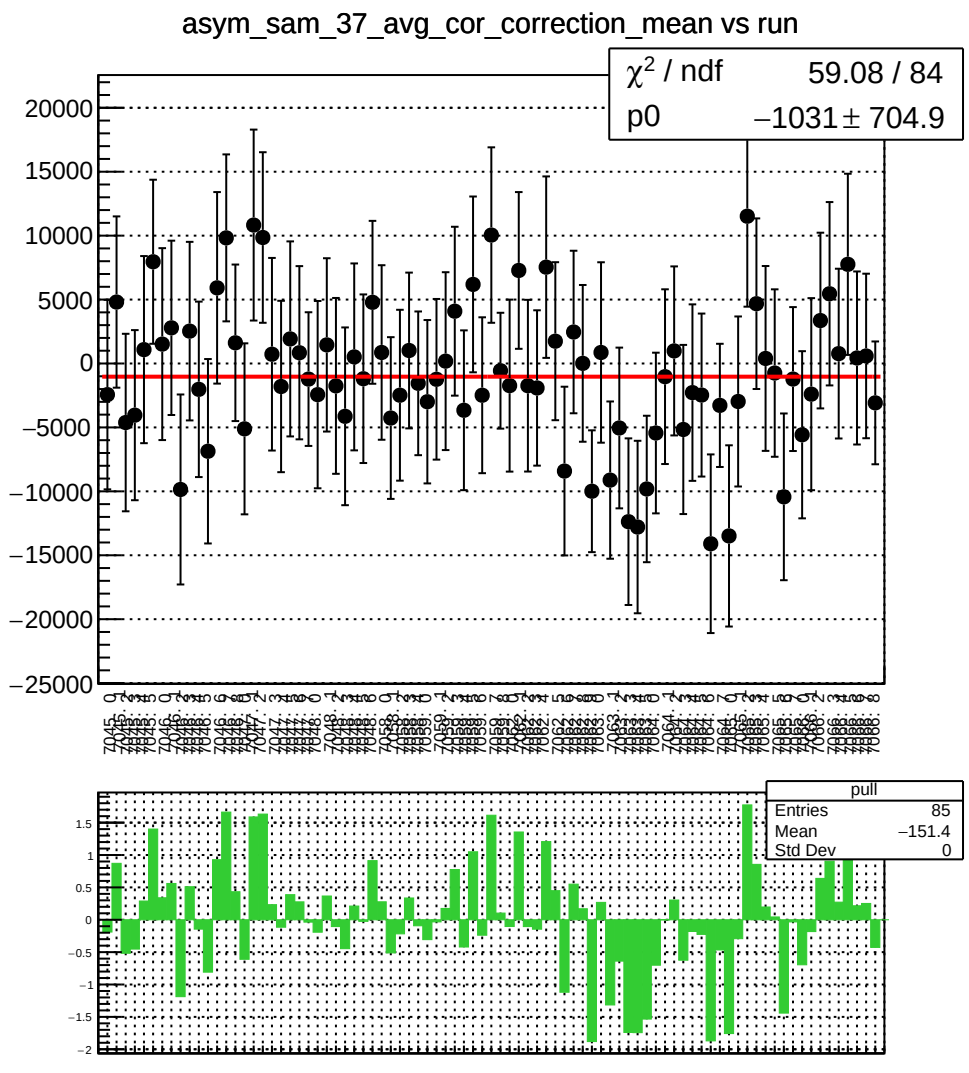

pull1D
Entries 85
Mean 0.02068
Std Dev 0.8334

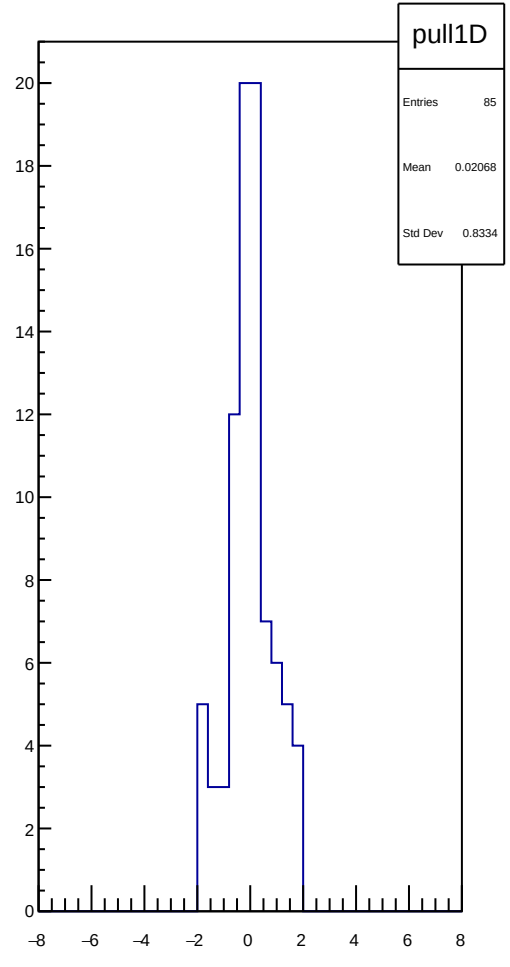

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5321 / 84
p0 638.7 ± 0.4984
740
720
700
680
660
640
620
600
580
560

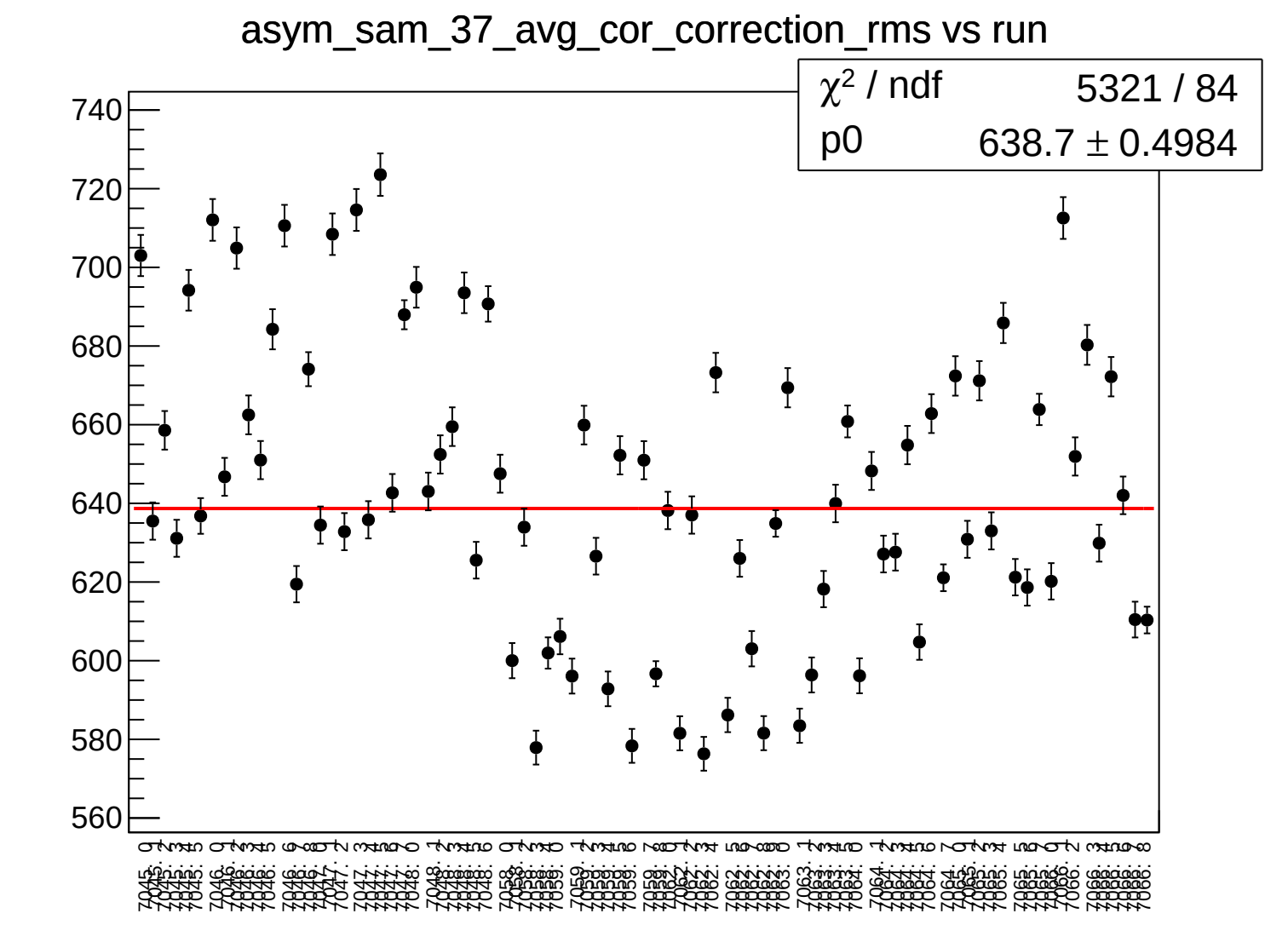

cor_asym_sam_37_avg_mean vs run
χ² / ndf 115.1 / 84
p0 −63.79 ± 69.99
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 206.1
Std Dev 0
2
1
0
−1
−2

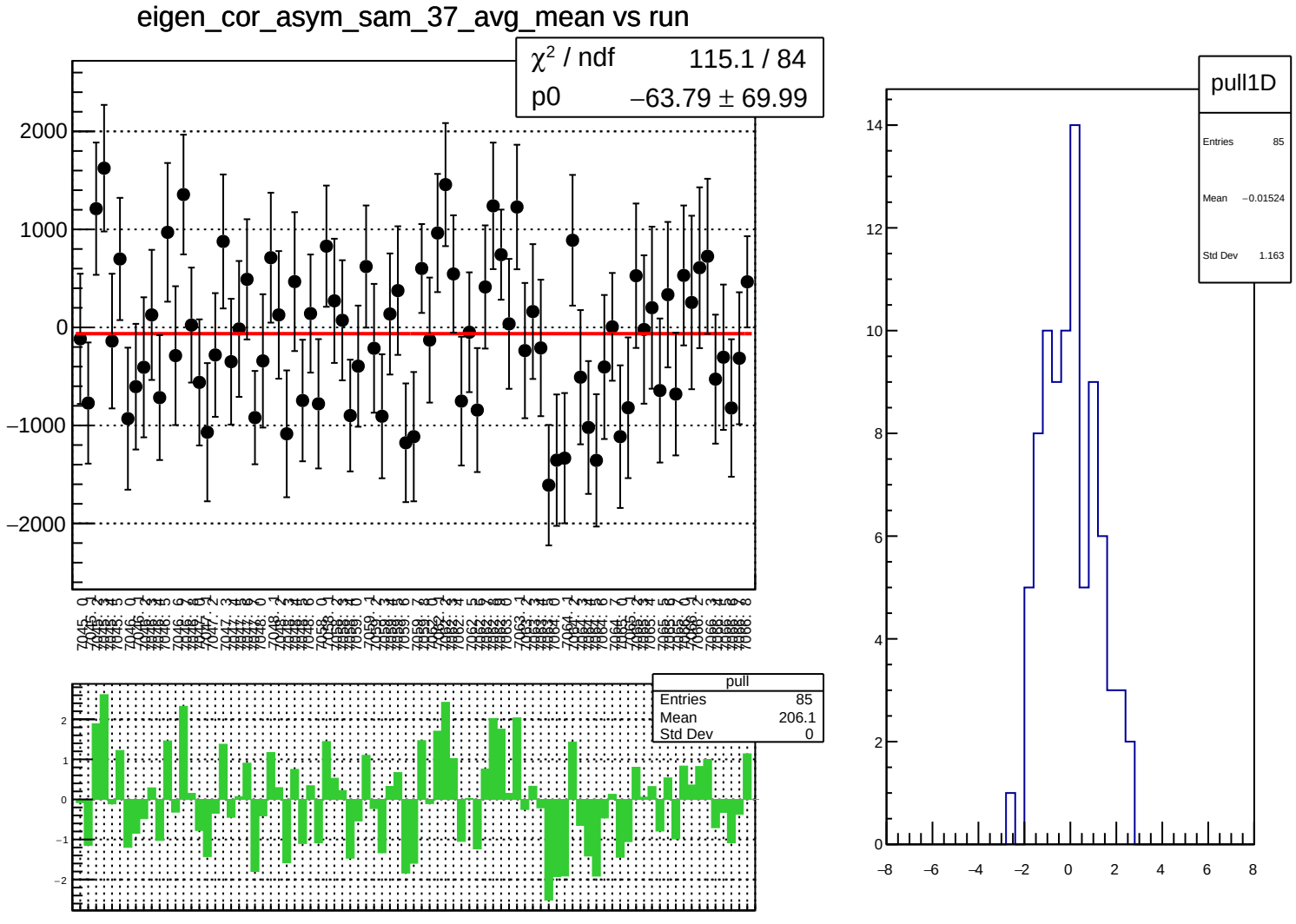

pull1D
Entries 85
Mean −0.01524
Std Dev 1.163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

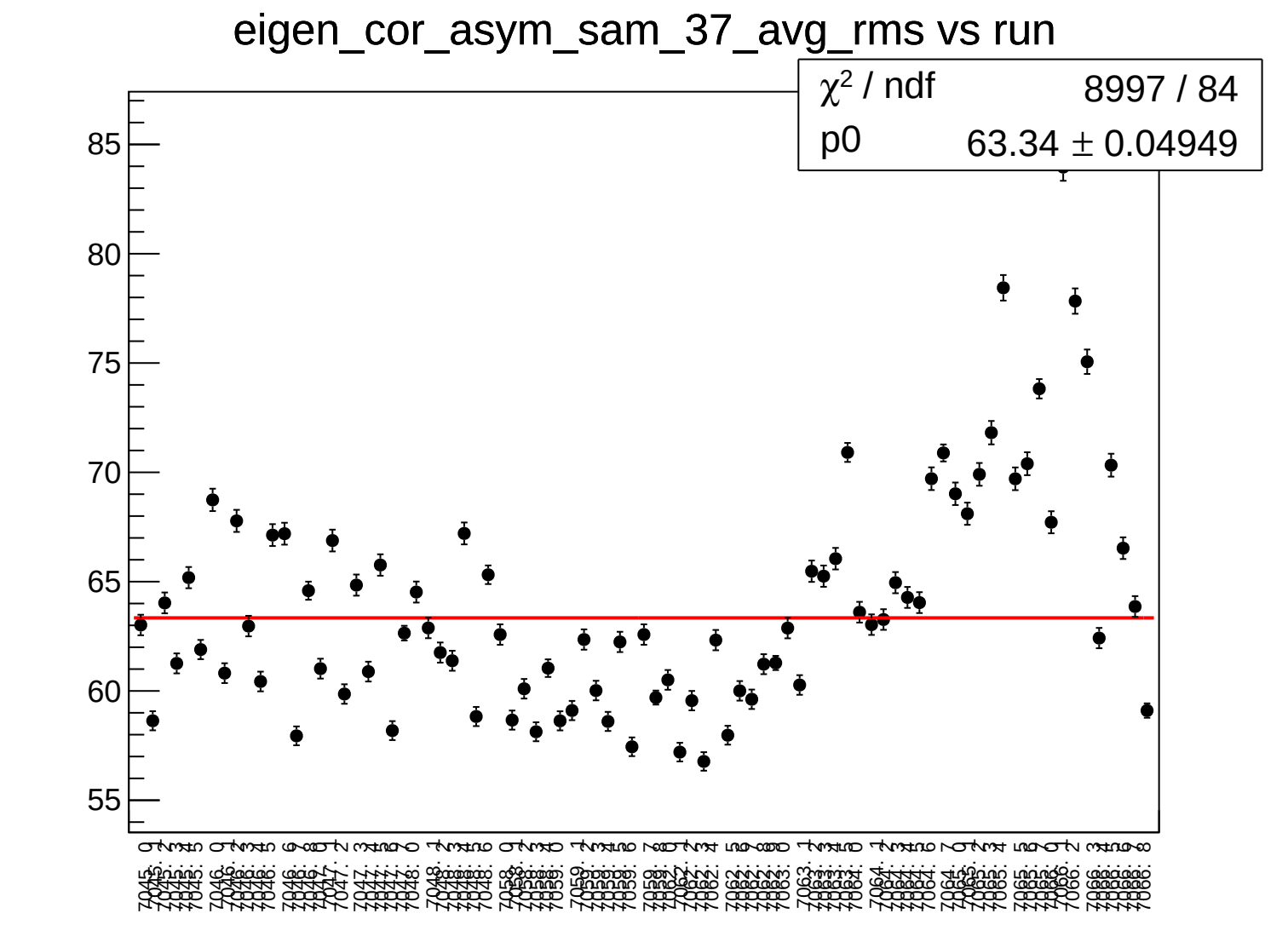

cor_asym_sam_37_avg_rms vs run
χ² / ndf 8997 / 84
p0 63.34 ± 0.04949
85
80
75
70
65
60
55

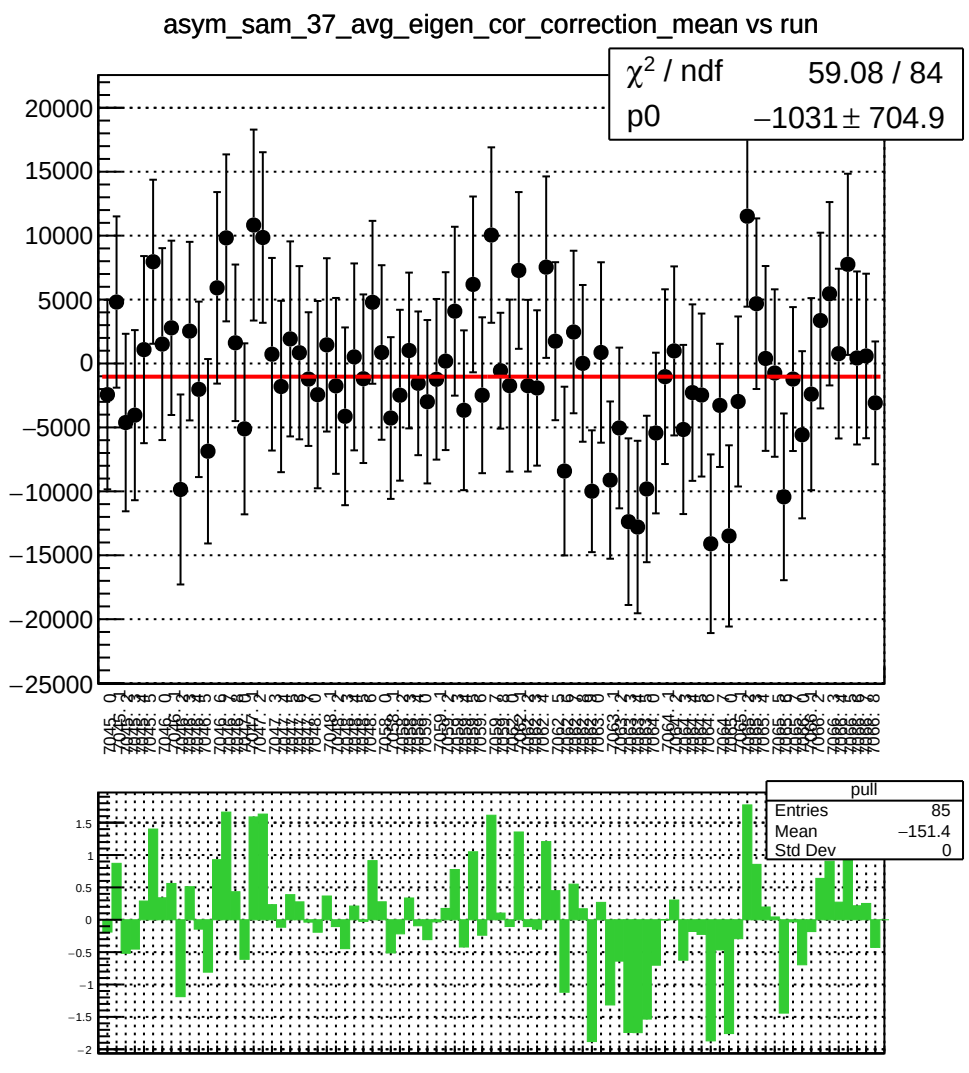

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 59.08 / 84
p0 −1031 ± 704.9
pull
Entries 85
Mean −151.4
Std Dev 0

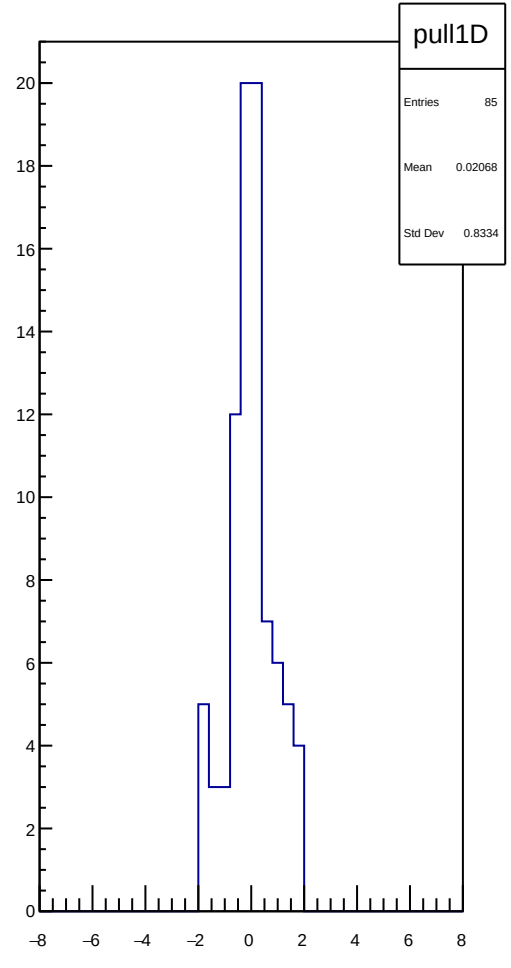

pull1D
Entries 85
Mean 0.02068
Std Dev 0.8334

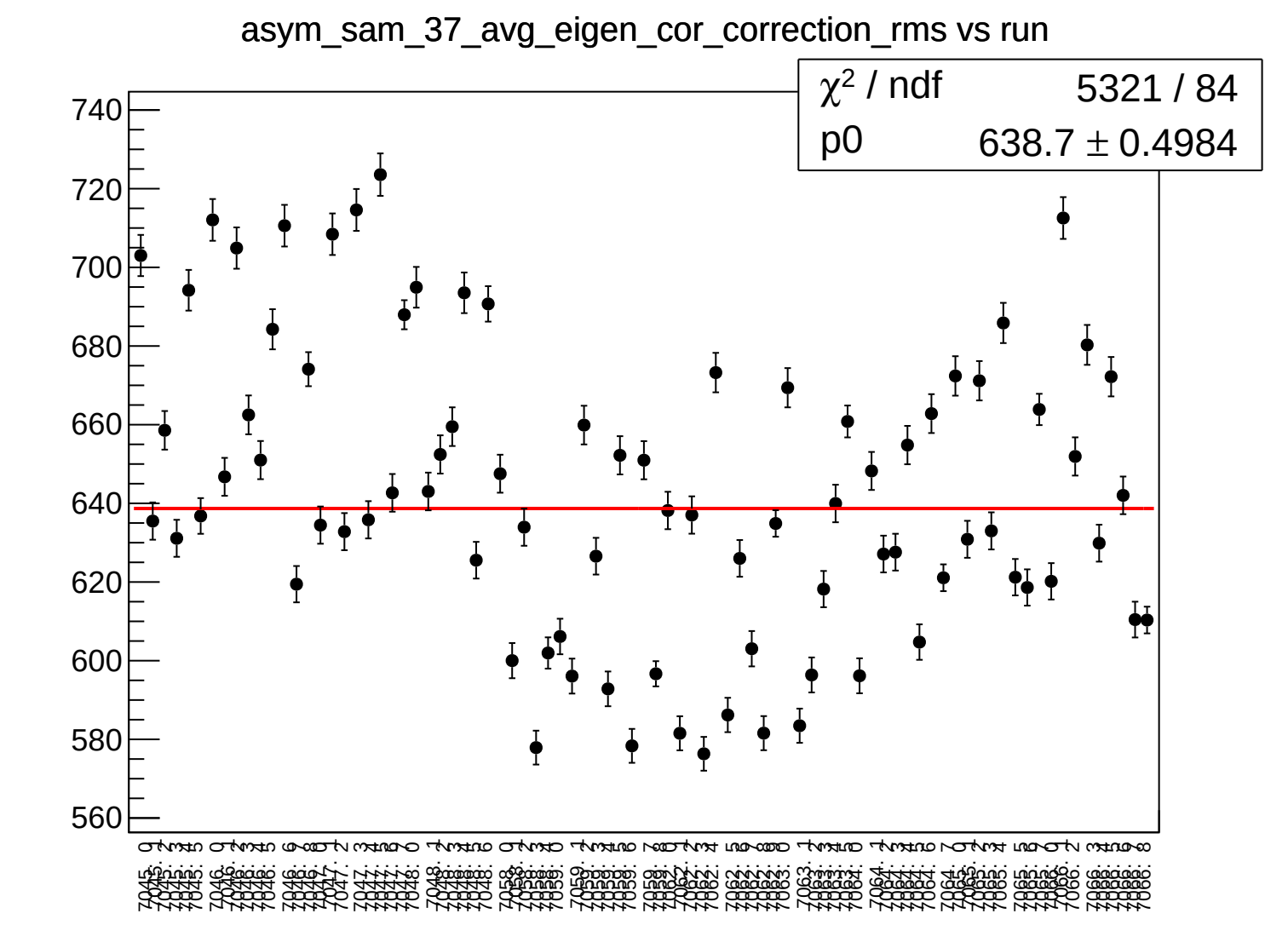

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5321 / 84
p0 638.7 ± 0.4984
740
720
700
680
660
640
620
600
580
560

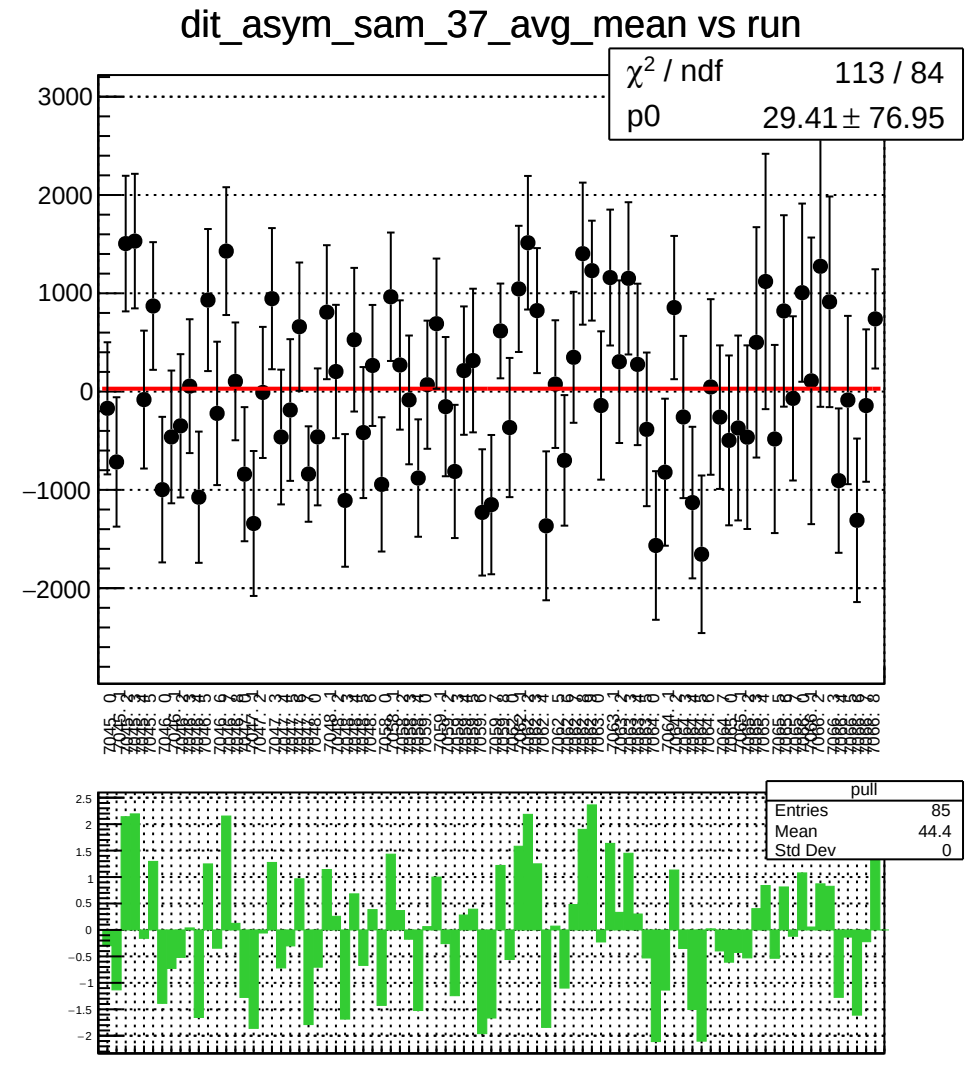

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 115.1 / 84
p0 −63.79 ± 69.99
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 206.1
Std Dev 0
pull1D
Entries 85
Mean −0.01524
Std Dev 1.163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

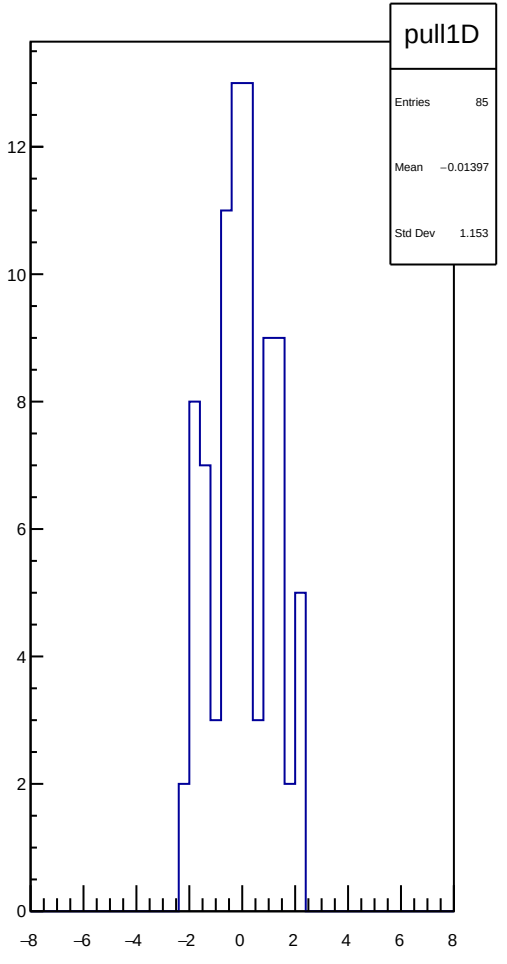

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 8997 / 84
p0 63.34 ± 0.04949
85
80
75
70
65
60
55

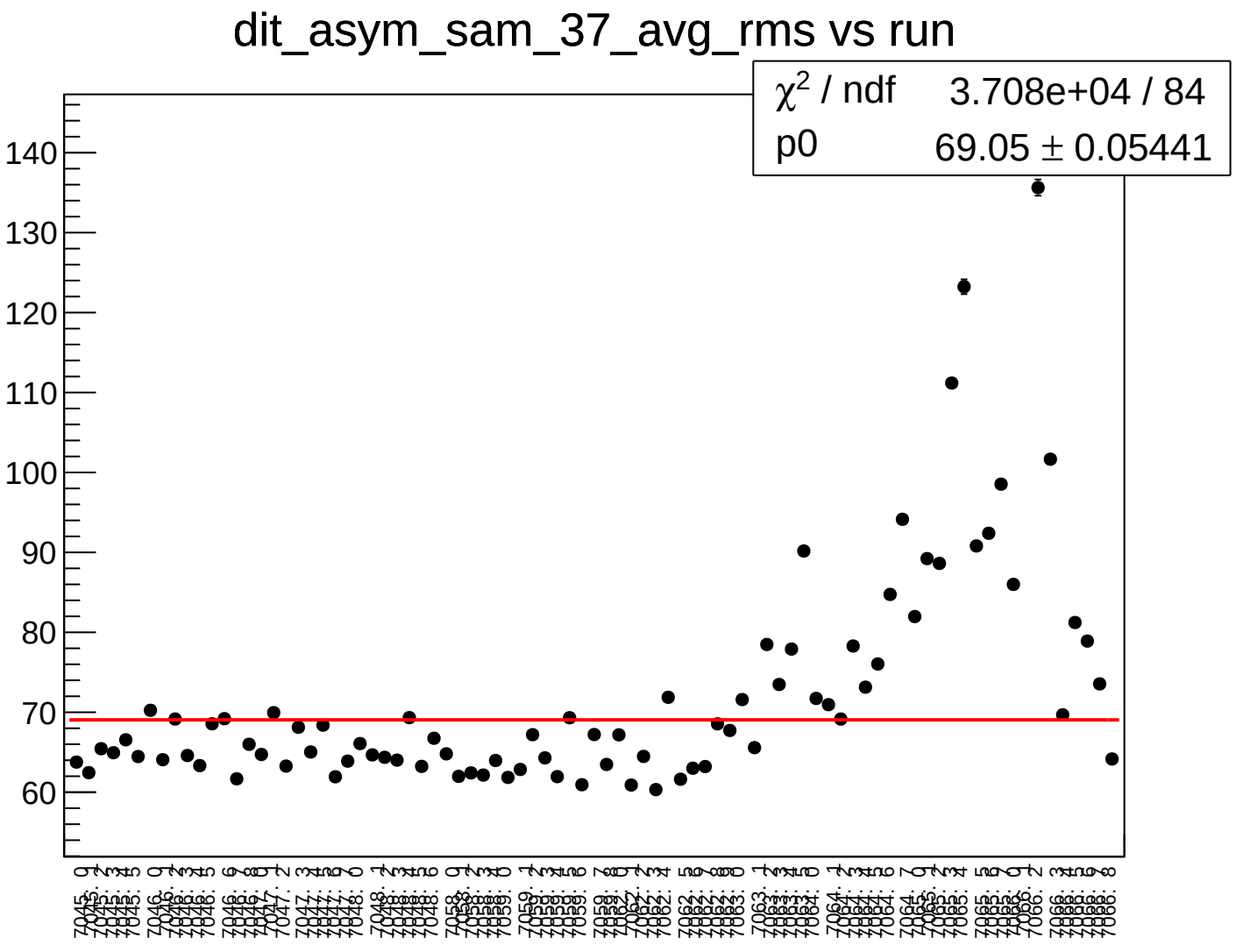

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 59.08 / 84
p0 −1031 ± 704.9
pull
Entries 85
Mean −151.4
Std Dev 0

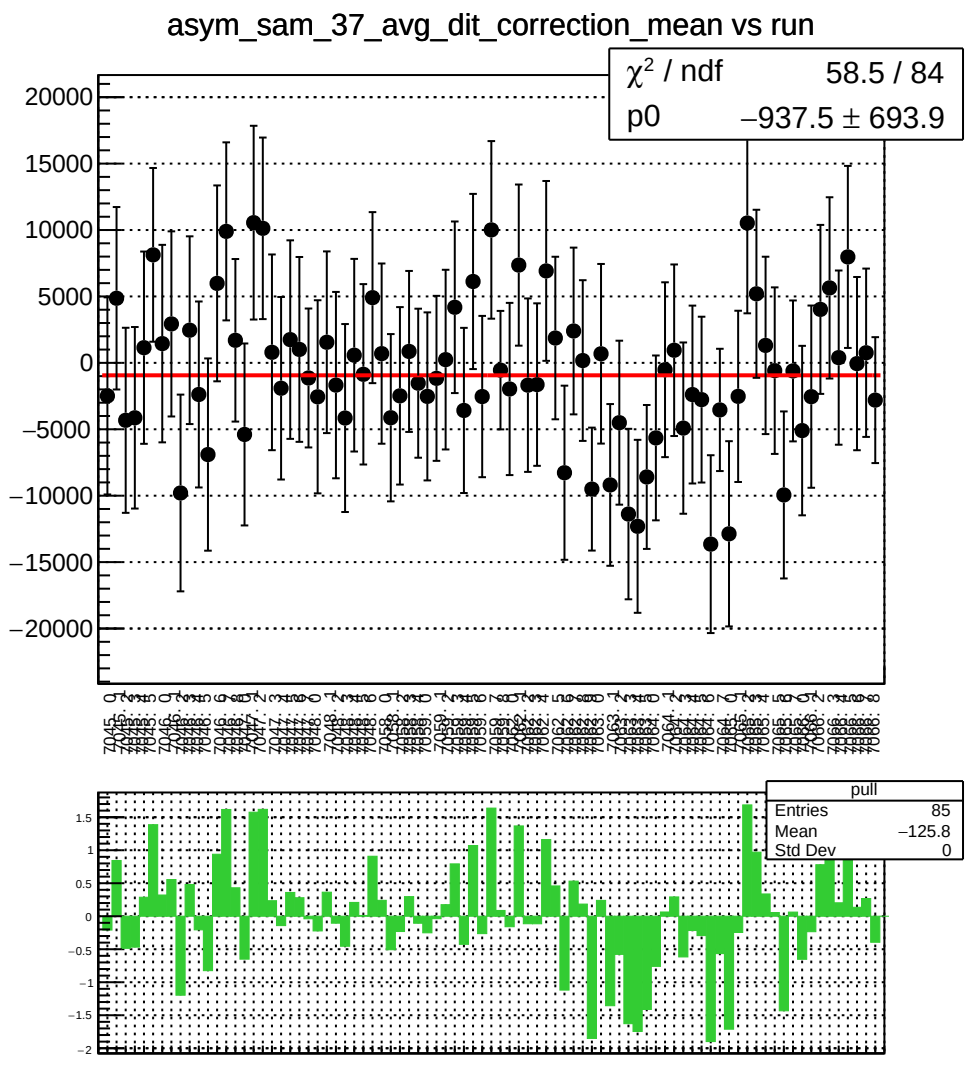

pull1D
Entries 85
Mean 0.02068
Std Dev 0.8334

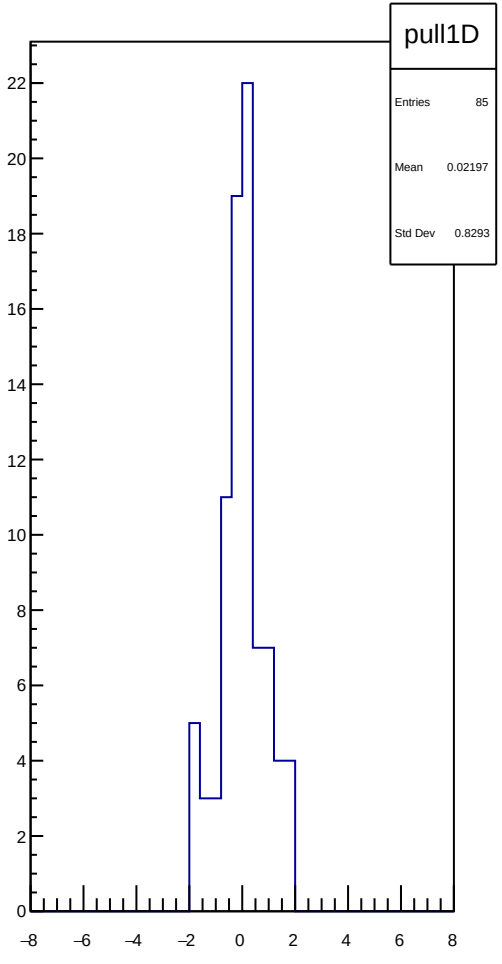

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5321 / 84
p0 638.7 ± 0.4984
740
720
700
680
660
640
620
600
580
560

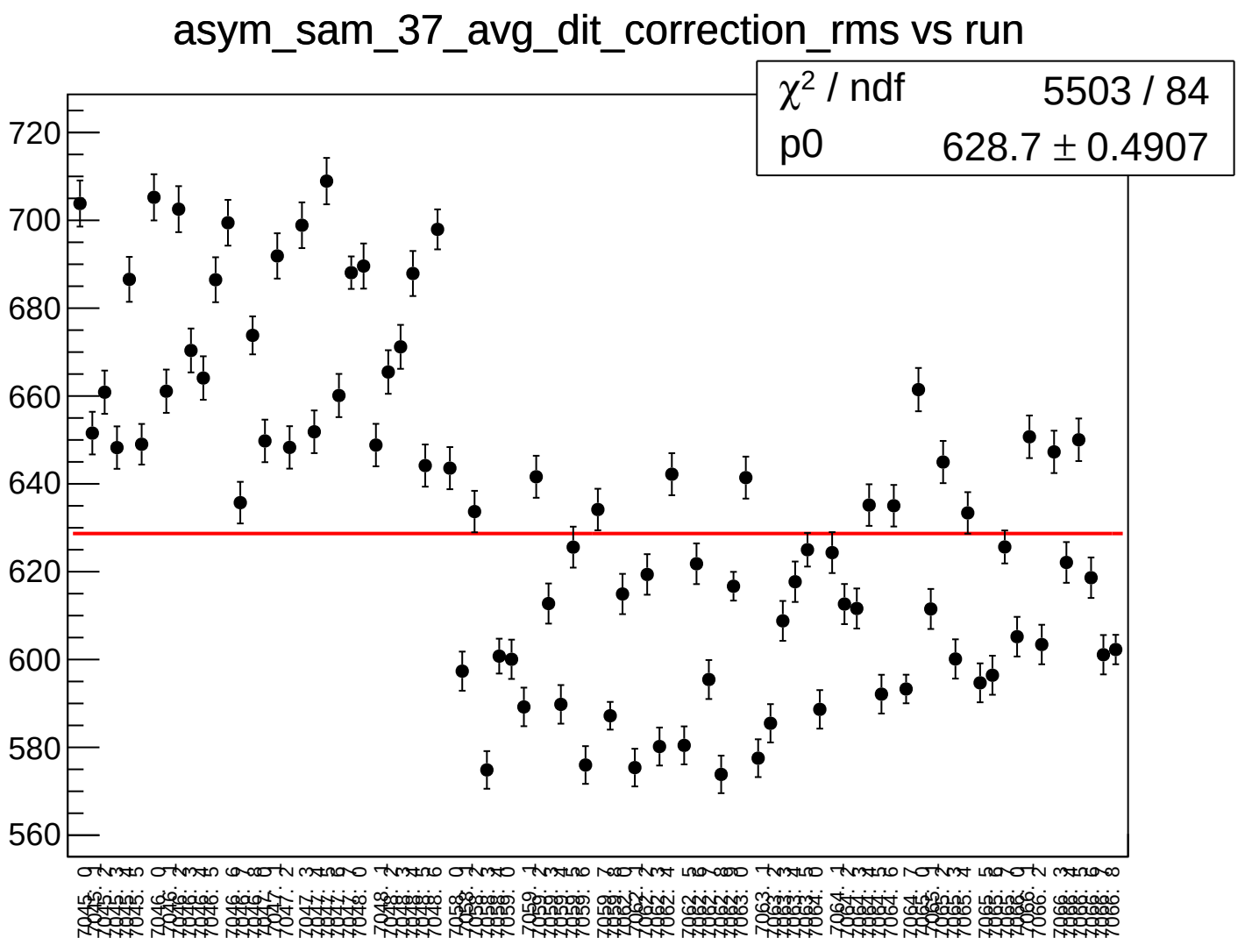

dit_asym_sam_37_avg_mean vs run
χ² / ndf 113 / 84
p0 29.41 ± 76.95
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 44.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

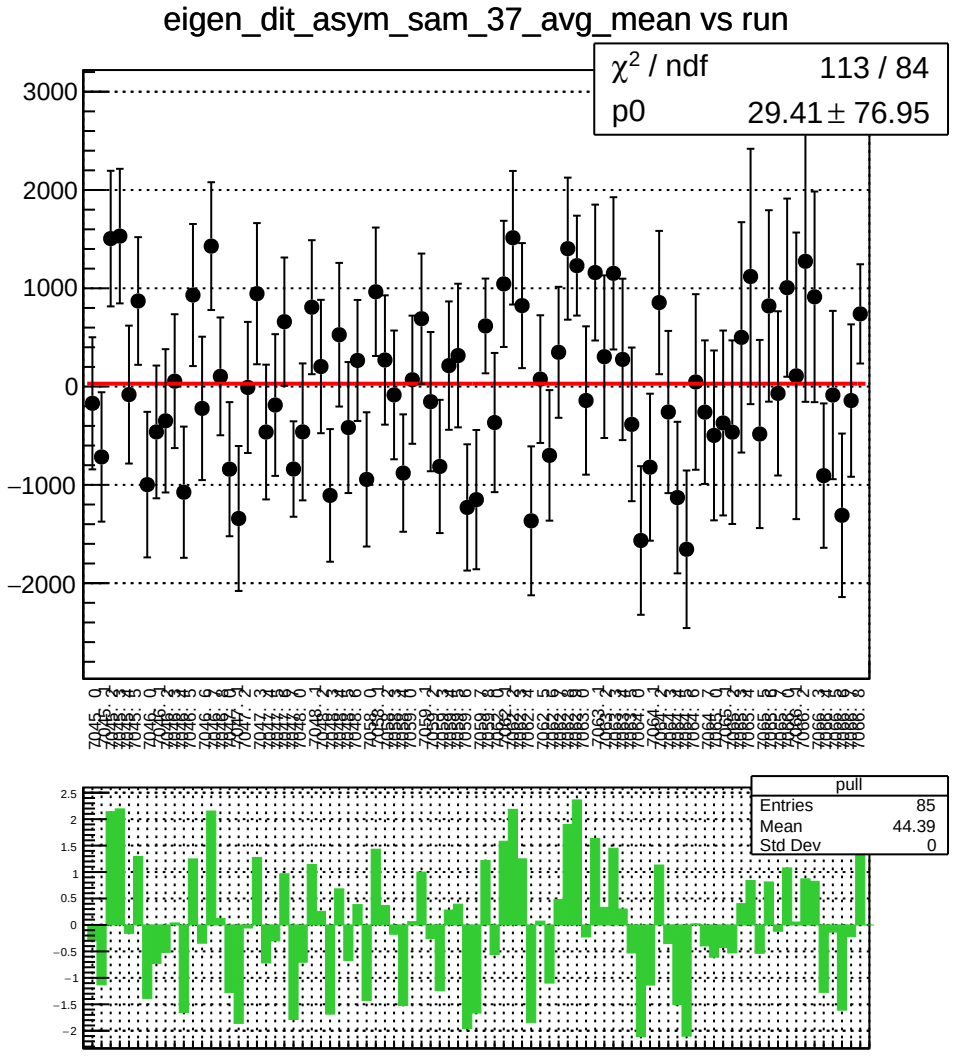

pull1D
Entries 85
Mean −0.01397
Std Dev 1.153
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

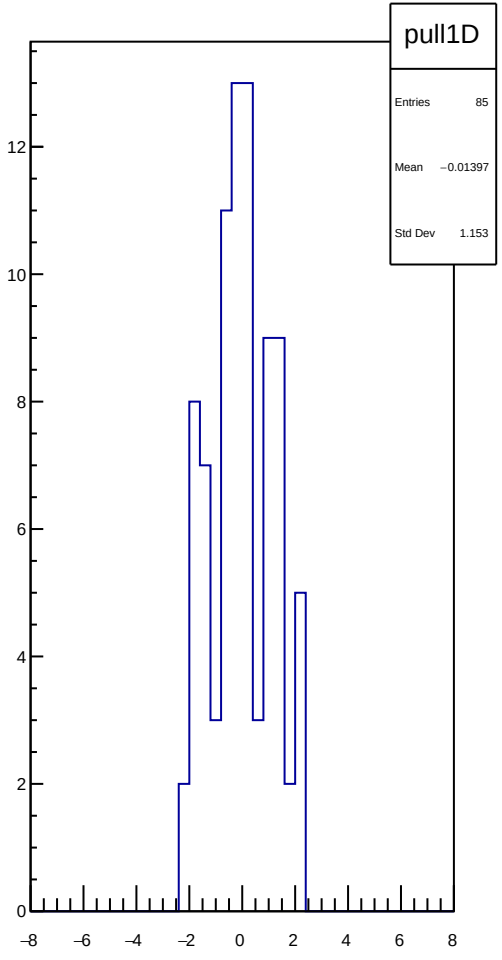

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.708e+04 / 84
p0 69.05 ± 0.05441
140
130
120
110
100
90
80
70
60

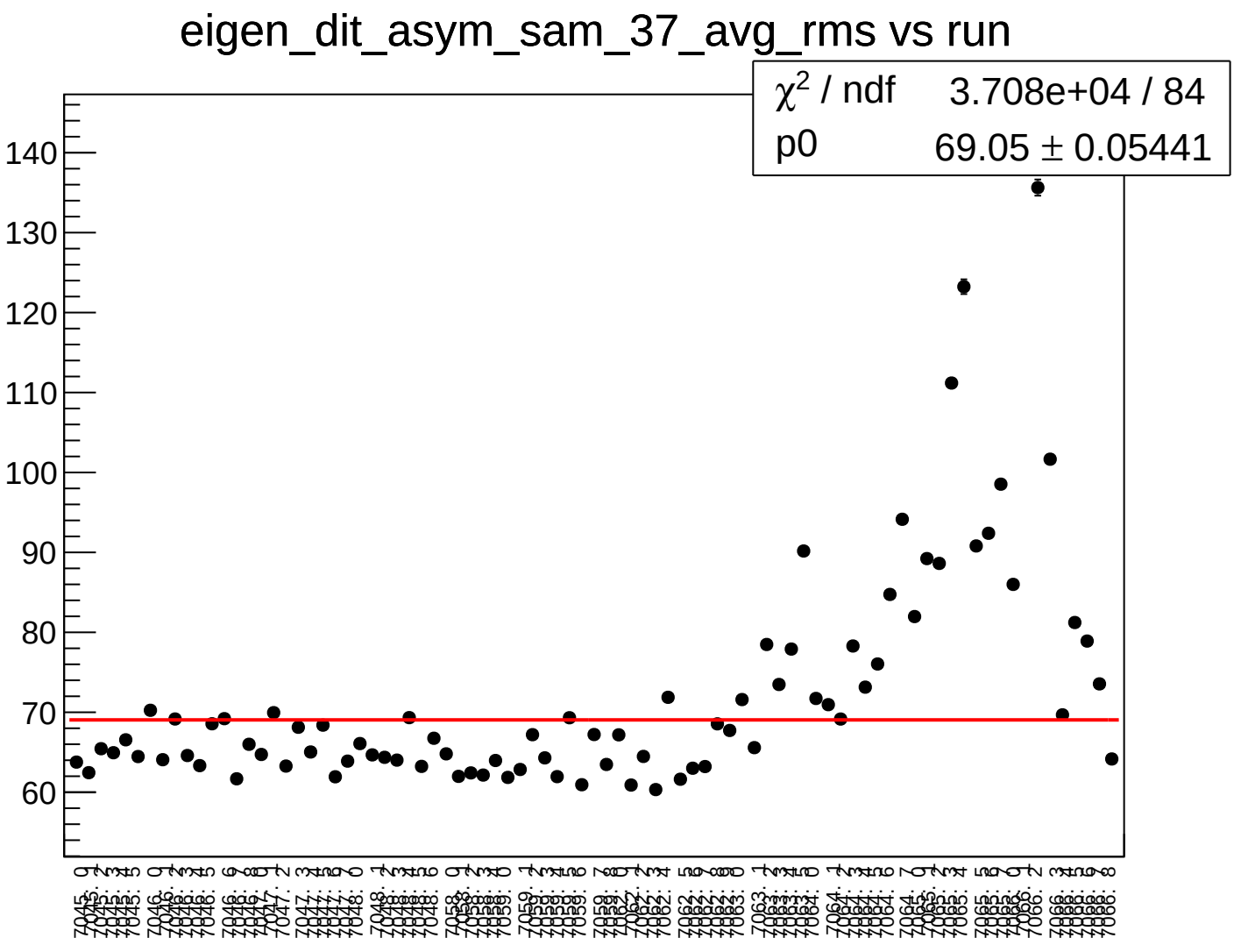

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 58.5 / 84
p0 −937.5 ± 693.9
pull
Entries 85
Mean −125.8
Std Dev 0

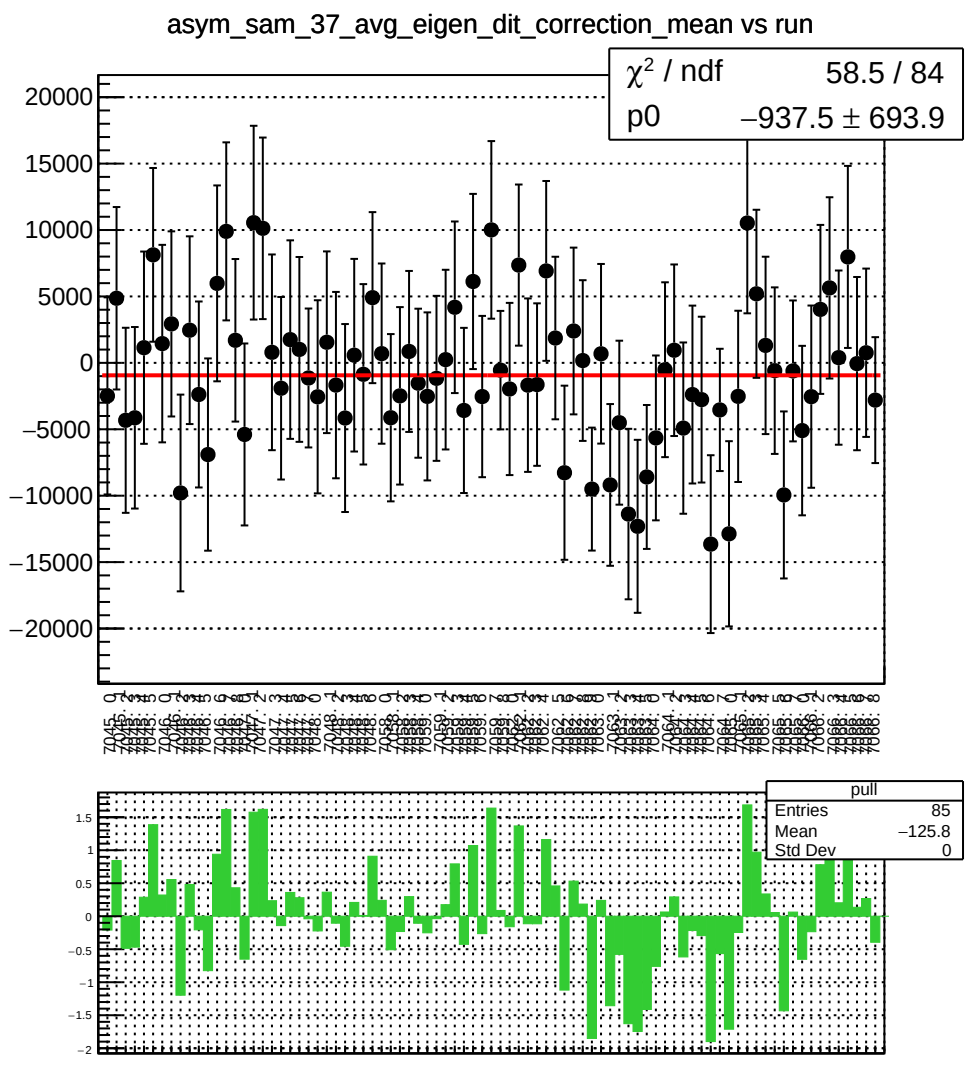

pull1D
Entries 85
Mean 0.02197
Std Dev 0.8293

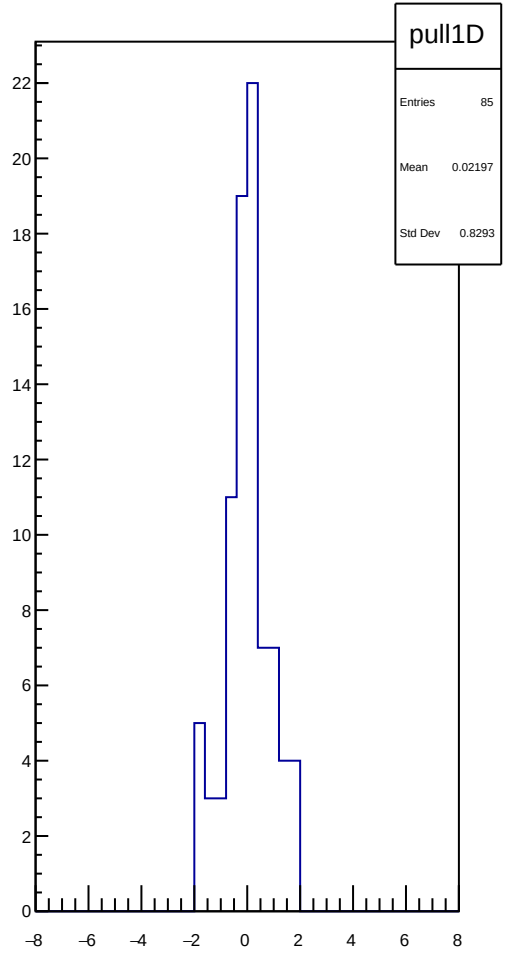

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 5503 / 84
p0 628.7 ± 0.4907
720
700
680
660
640
620
600
580
560

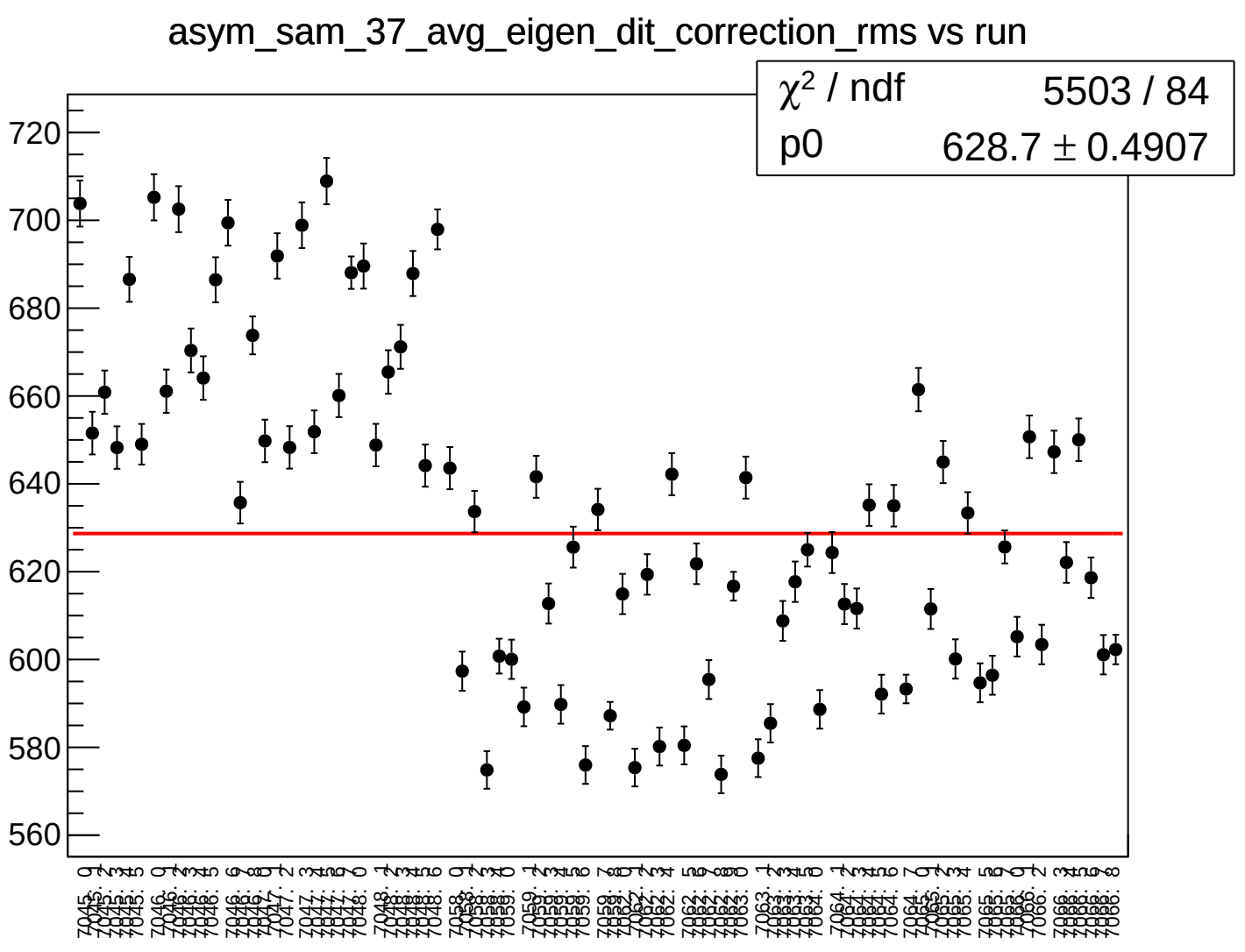

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 113 / 84
p0 29.41 ± 76.95
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 44.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

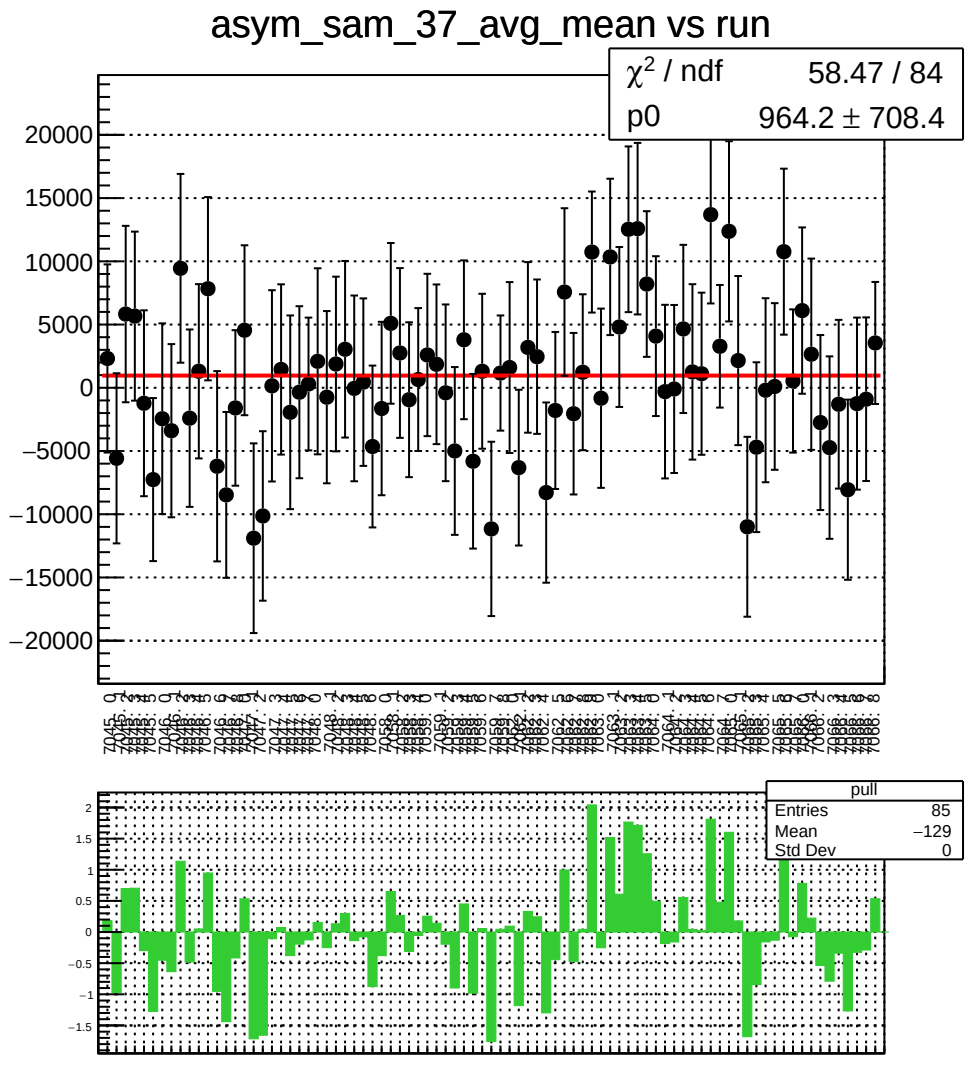

pull1D
Entries 85
Mean −0.01397
Std Dev 1.153
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

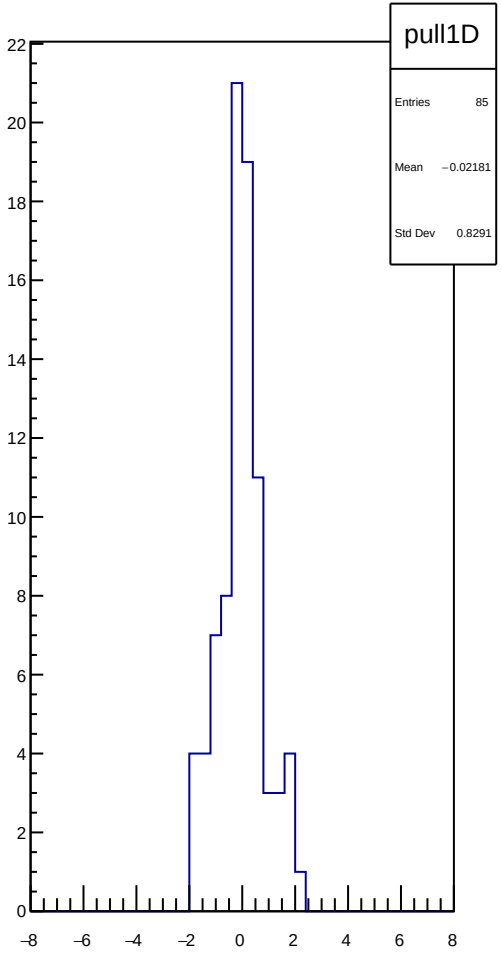

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.708e+04 / 84
p0 69.05 ± 0.05441
140
130
120
110
100
90
80
70
60

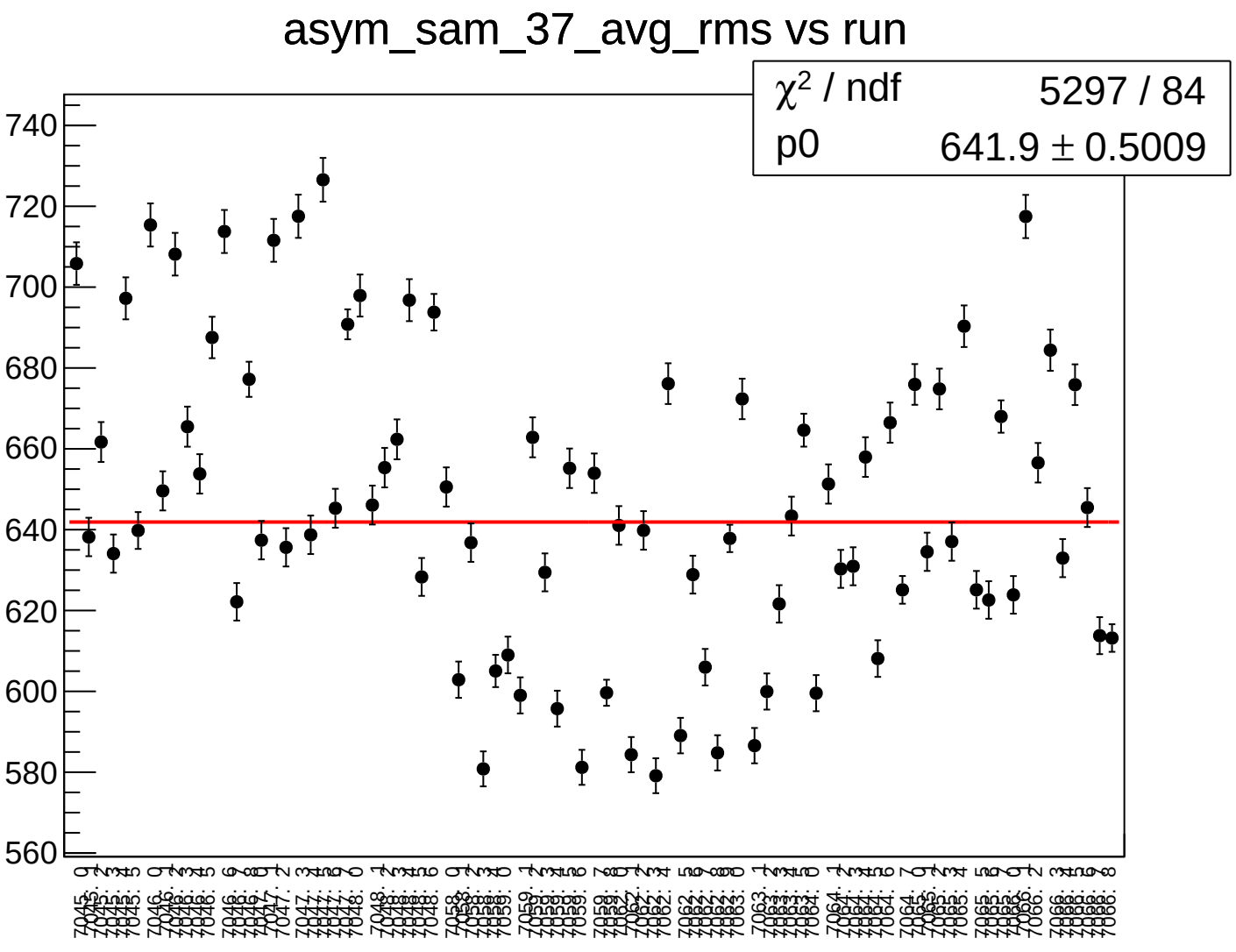

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 58.5 / 84
p0 −937.5 ± 693.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −125.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

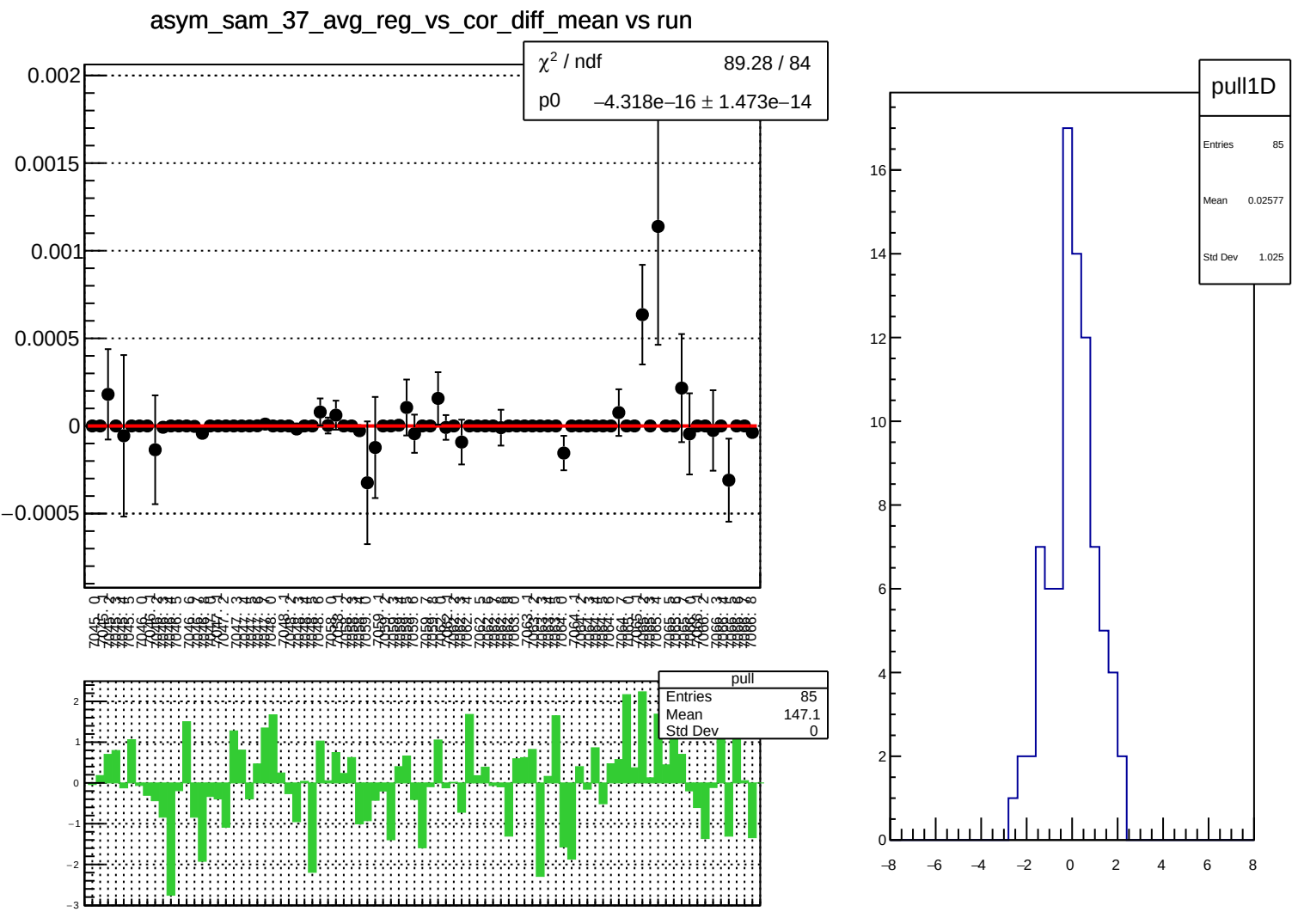

pull1D
Entries 85
Mean 0.02197
Std Dev 0.8293
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

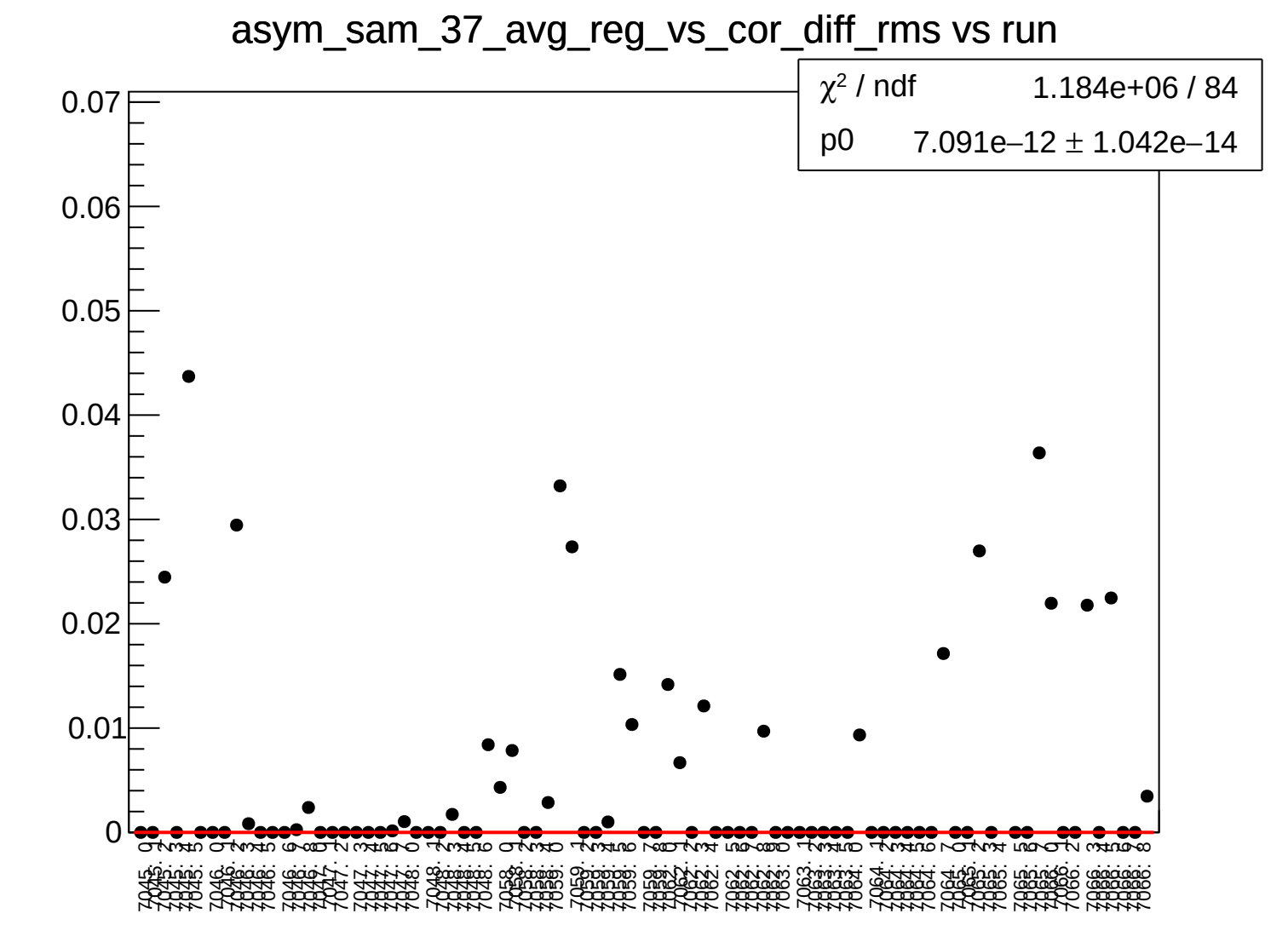

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 5503 / 84
p0 628.7 ± 0.4907
720
700
680
660
640
620
600
580
560

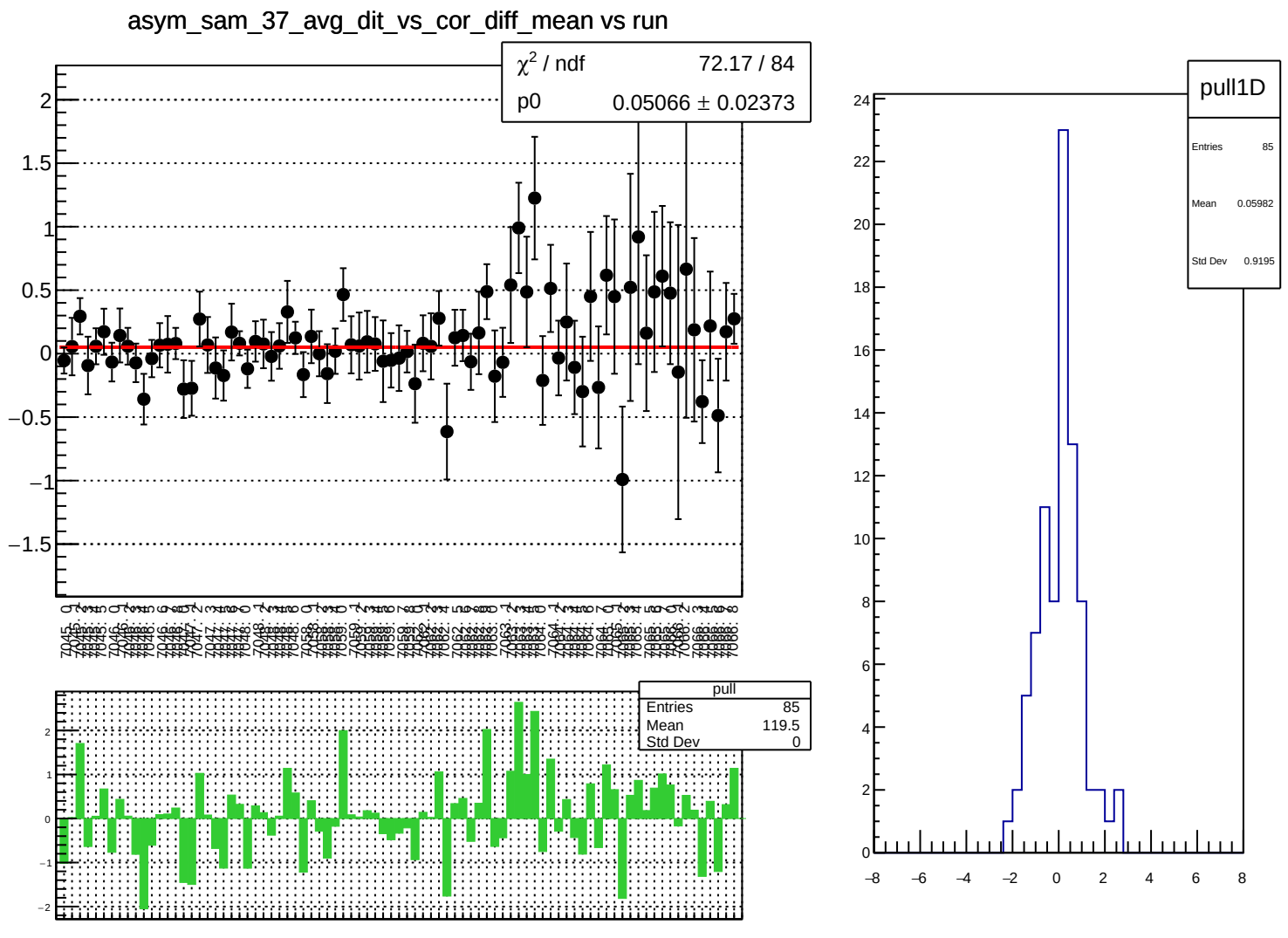

asym_sam_37_avg_mean vs run
χ^2 / ndf 58.47 / 84
p0 964.2 ± 708.4
pull
Entries 85
Mean −129
Std Dev 0

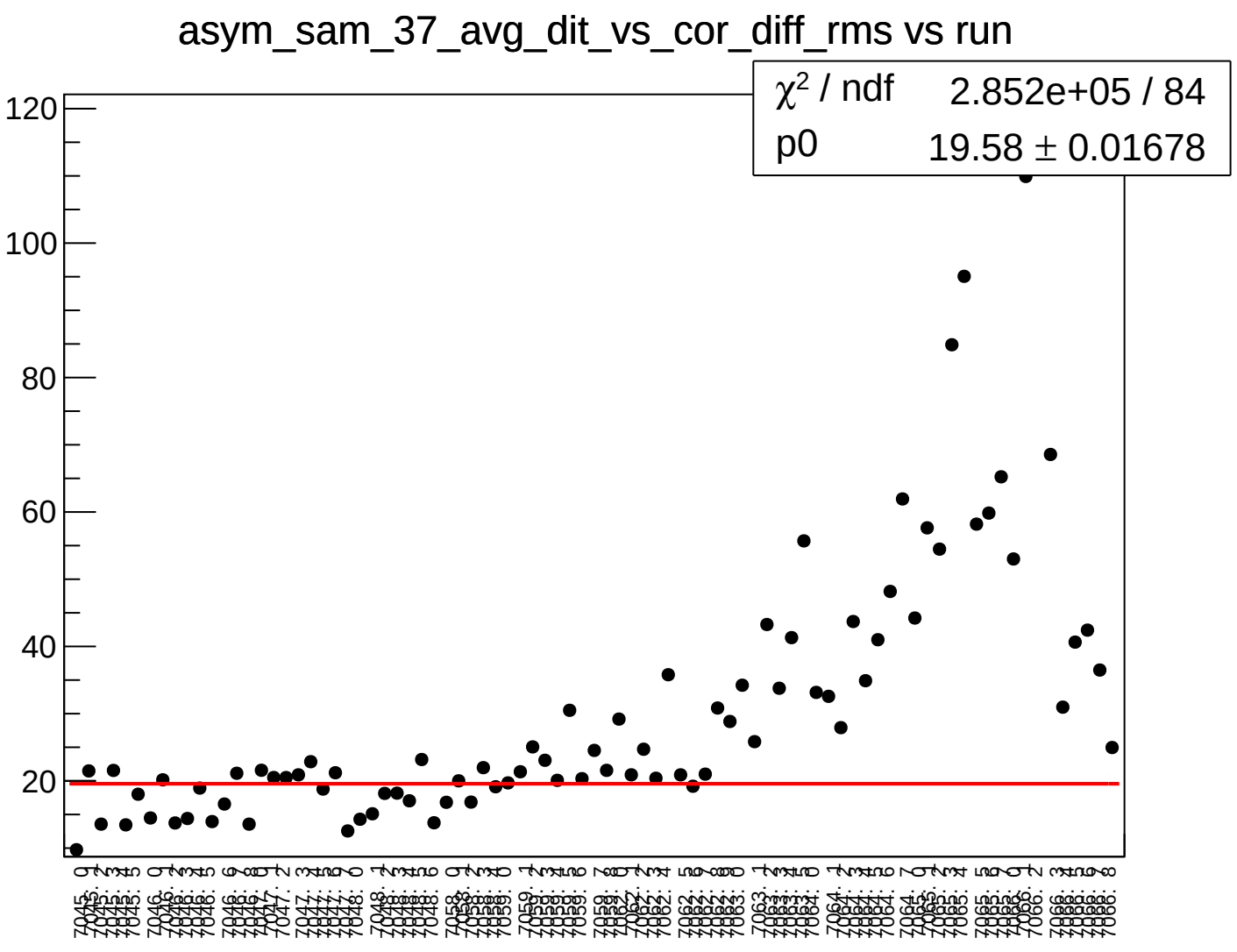

pull1D
Entries 85
Mean −0.02181
Std Dev 0.8291

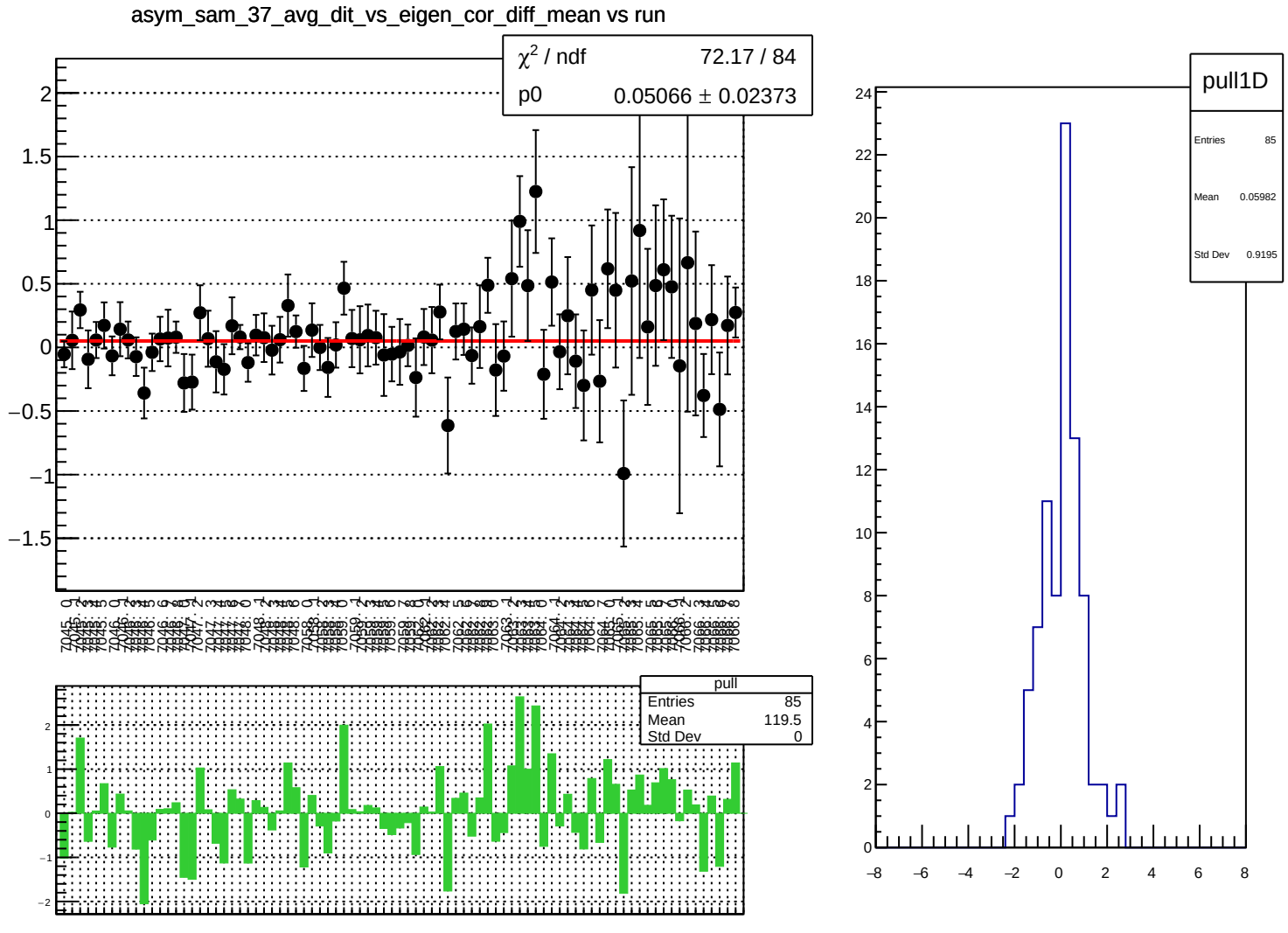

asym_sam_37_avg_rms vs run
χ² / ndf 5297 / 84
p0 641.9 ± 0.5009
740
720
700
680
660
640
620
600
580
560

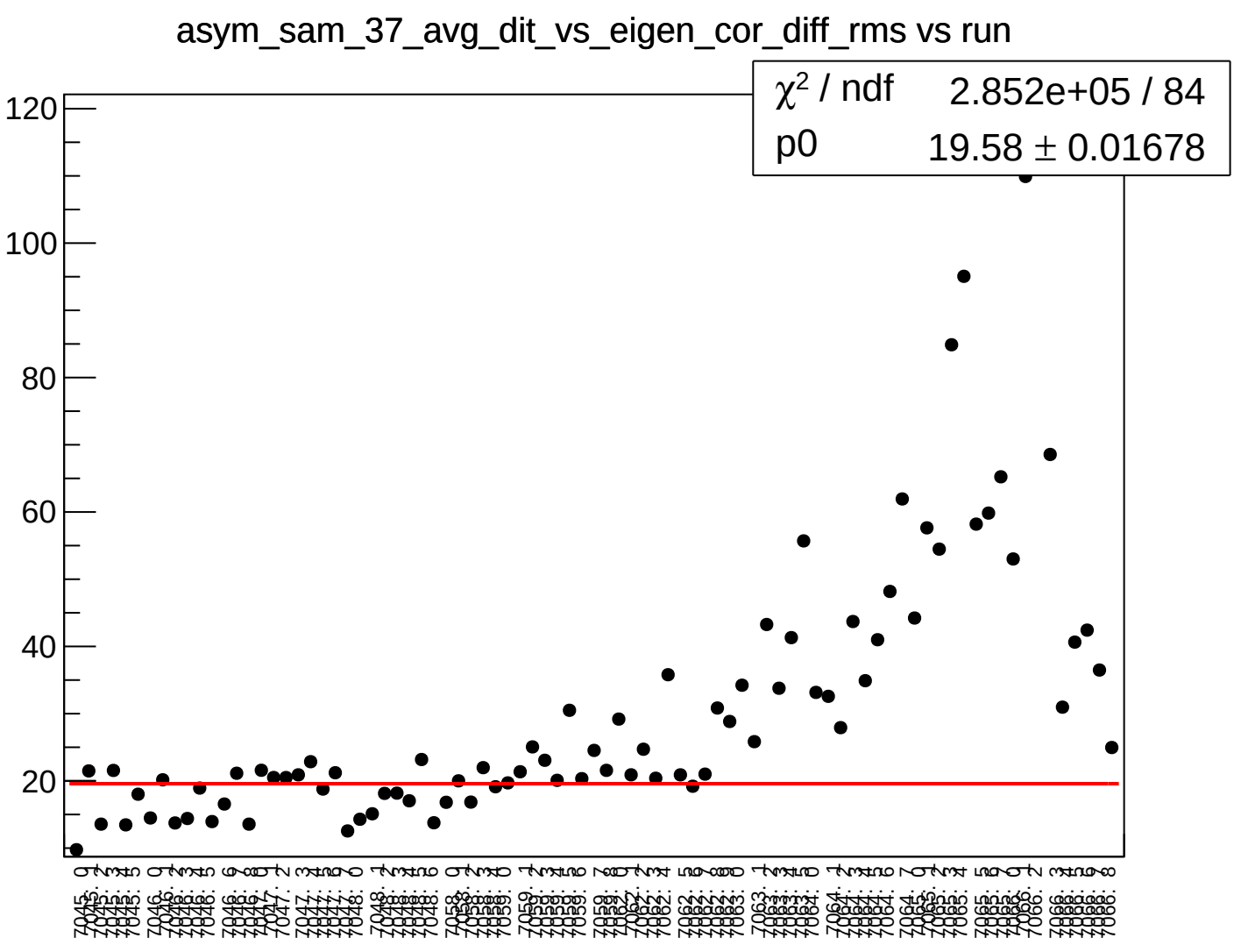

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.28 / 84
p0 −4.318e−16 ± 1.473e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 85
Mean 147.1
Std Dev 0
pull1D
Entries 85
Mean 0.02577
Std Dev 1.025

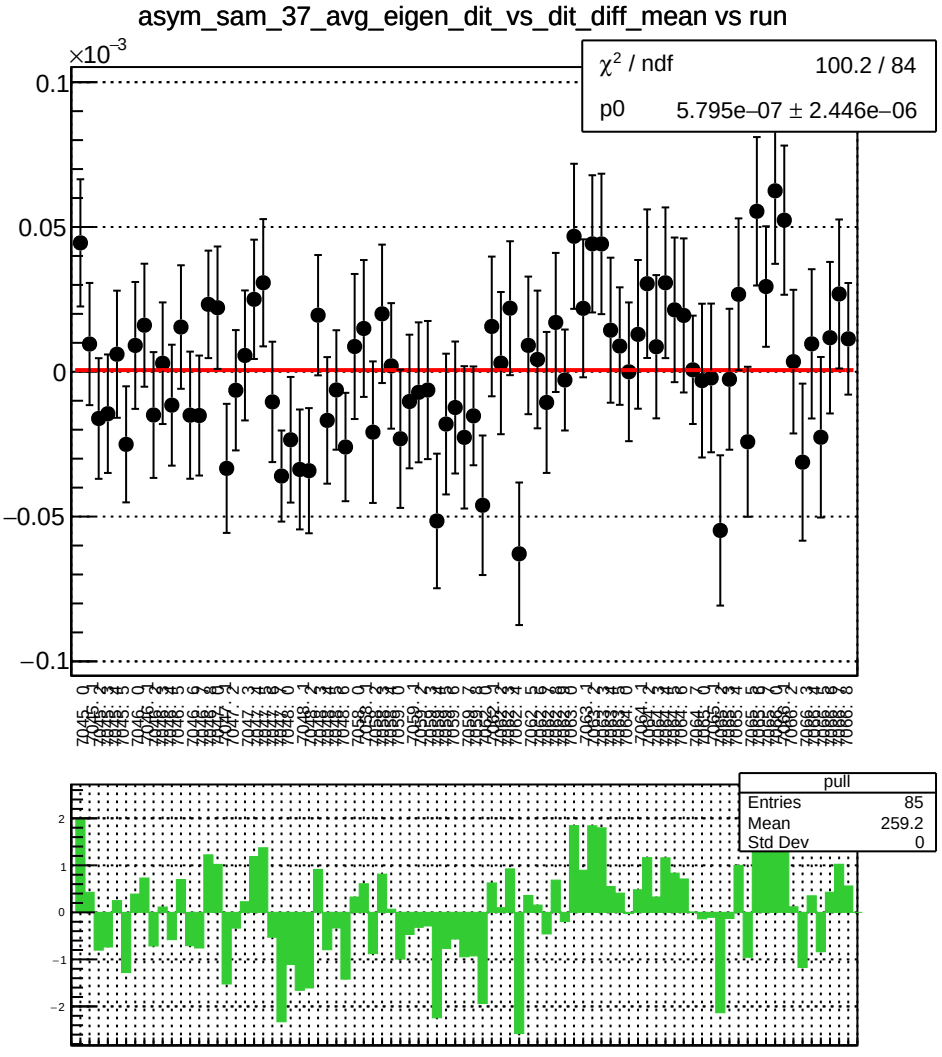

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.184e+06 / 84
p0 7.091e−12 ± 1.042e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

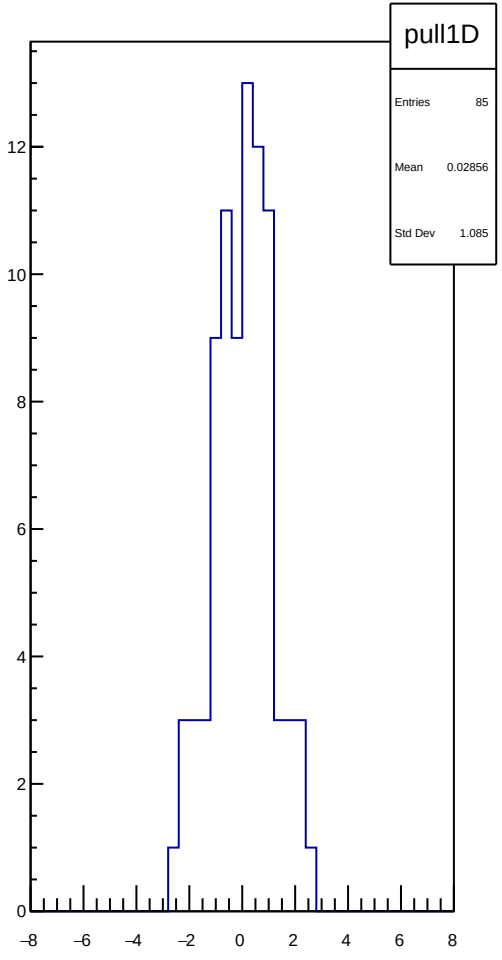

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.17 / 84
p0 0.05066 ± 0.02373
pull
Entries 85
Mean 119.5
Std Dev 0
pull1D
Entries 85
Mean 0.05982
Std Dev 0.9195

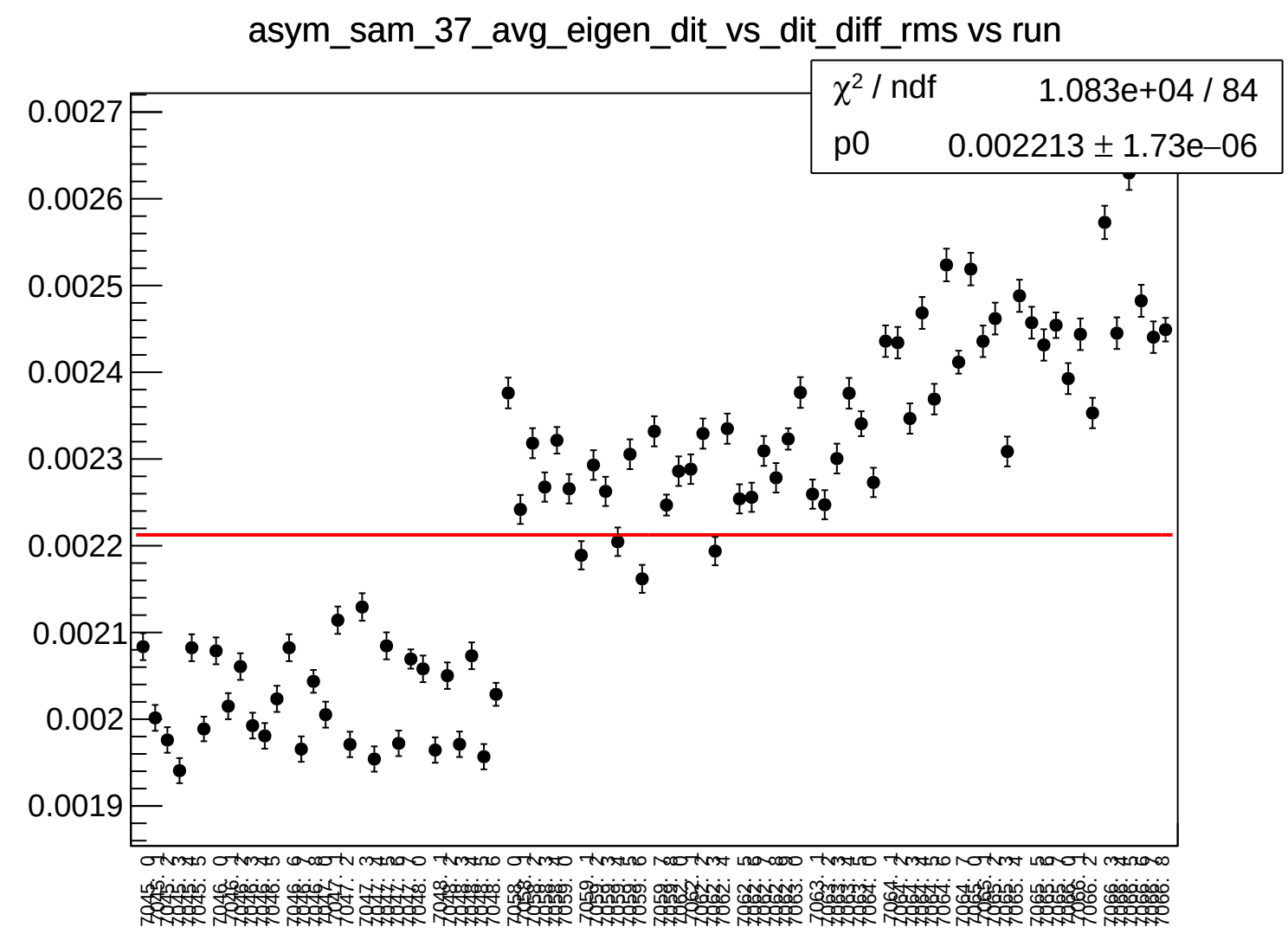

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.852e+05 / 84
p0 19.58 ± 0.01678
120
100
80
60
40
20

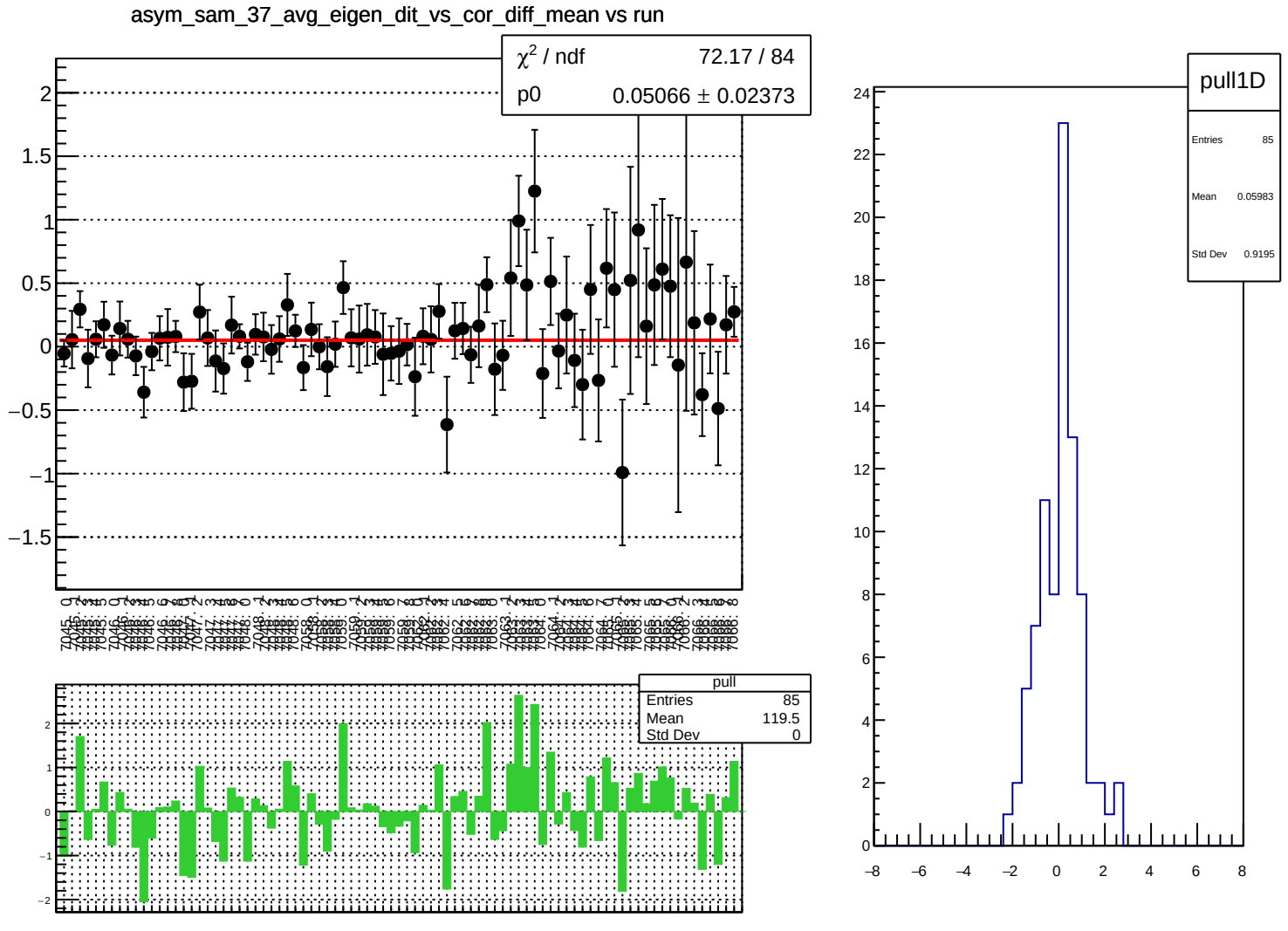

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.17 / 84
p0 0.05066 ± 0.02373
pull
Entries 85
Mean 119.5
Std Dev 0
pull1D
Entries 85
Mean 0.05982
Std Dev 0.9195

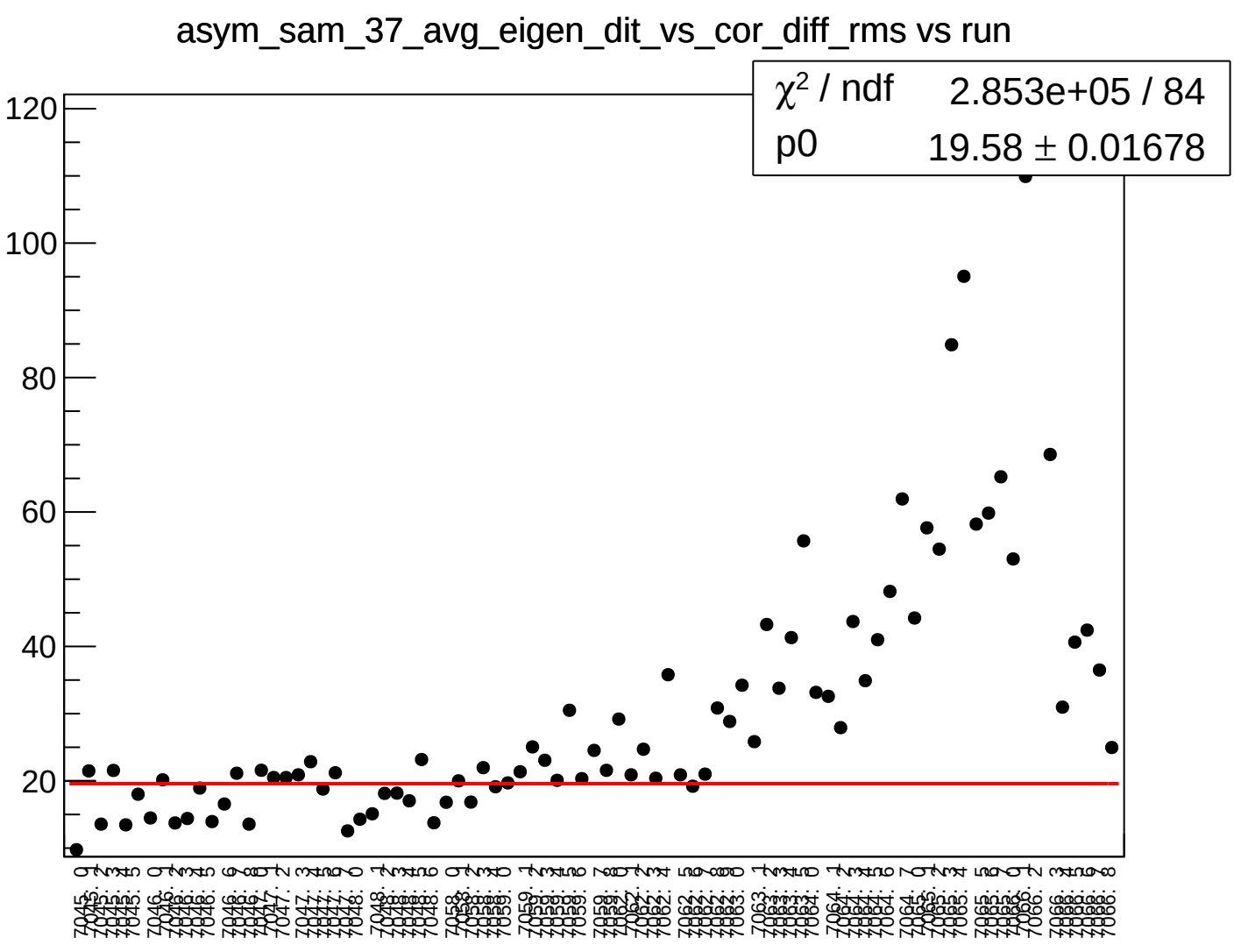

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.852e+05 / 84
p0 19.58 ± 0.01678
120
100
80
60
40
20

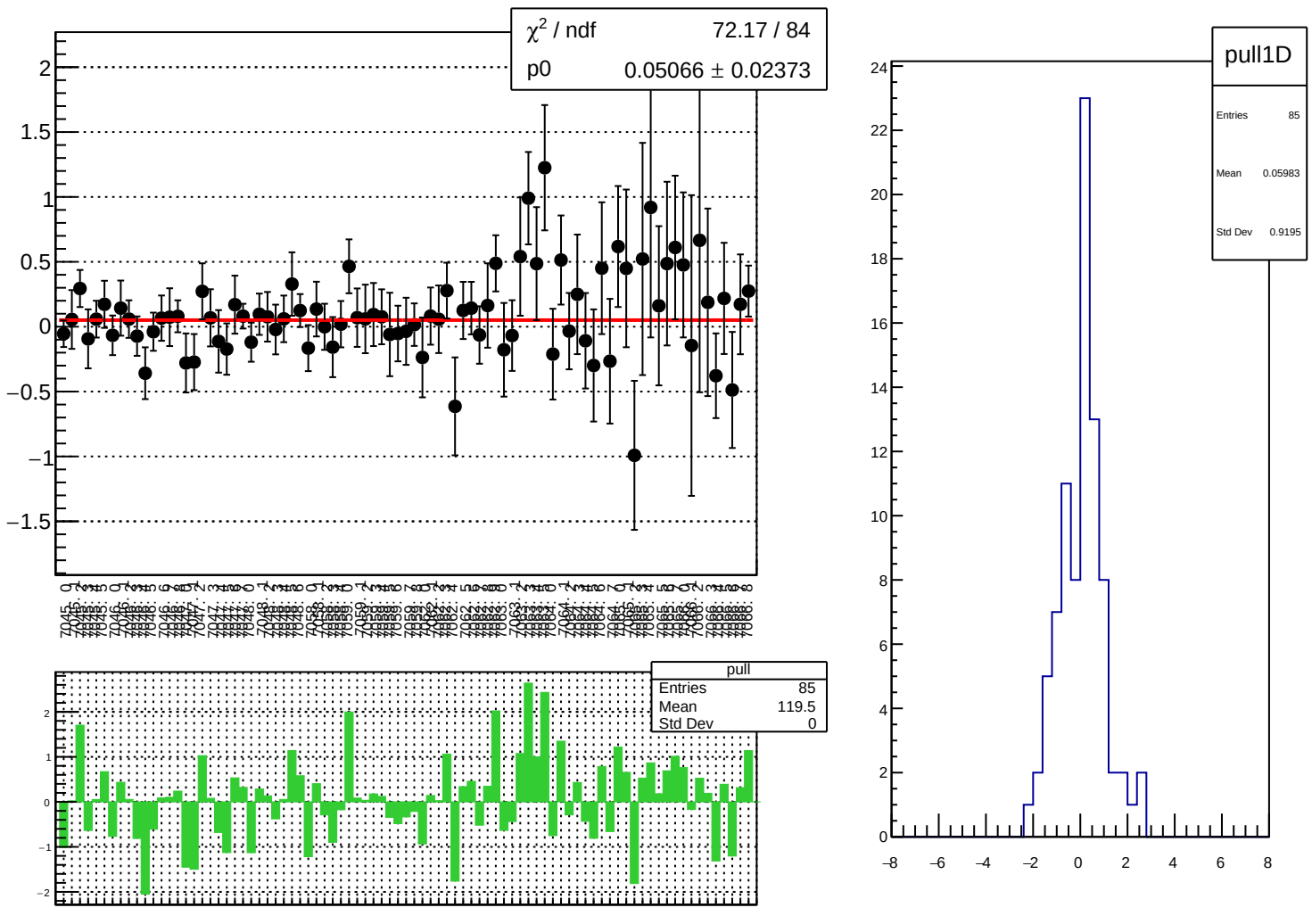

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.2 / 84
p0 5.795e−07 ± 2.446e−06
pull
Entries 85
Mean 259.2
Std Dev 0

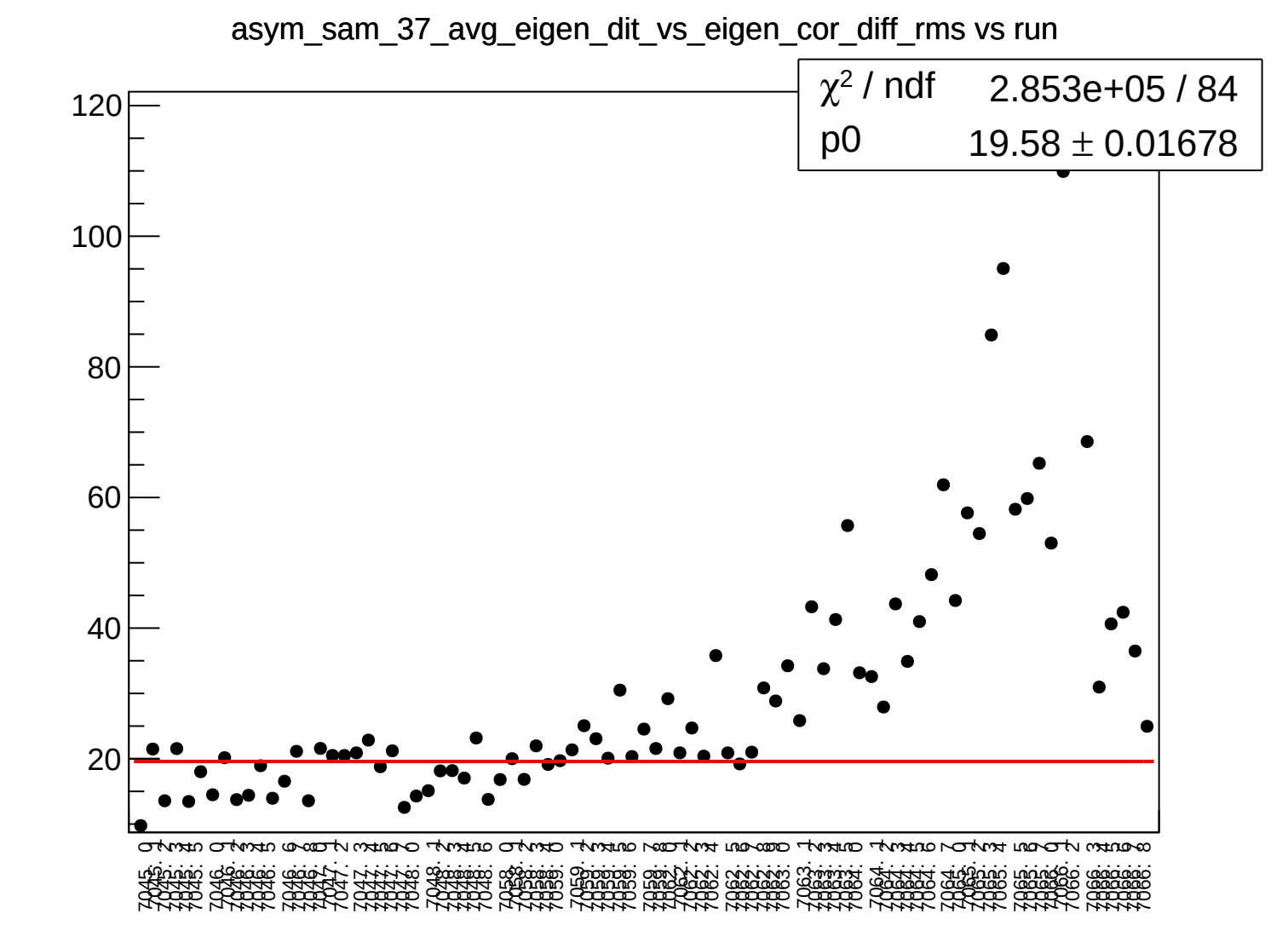

pull1D
Entries 85
Mean 0.02856
Std Dev 1.085

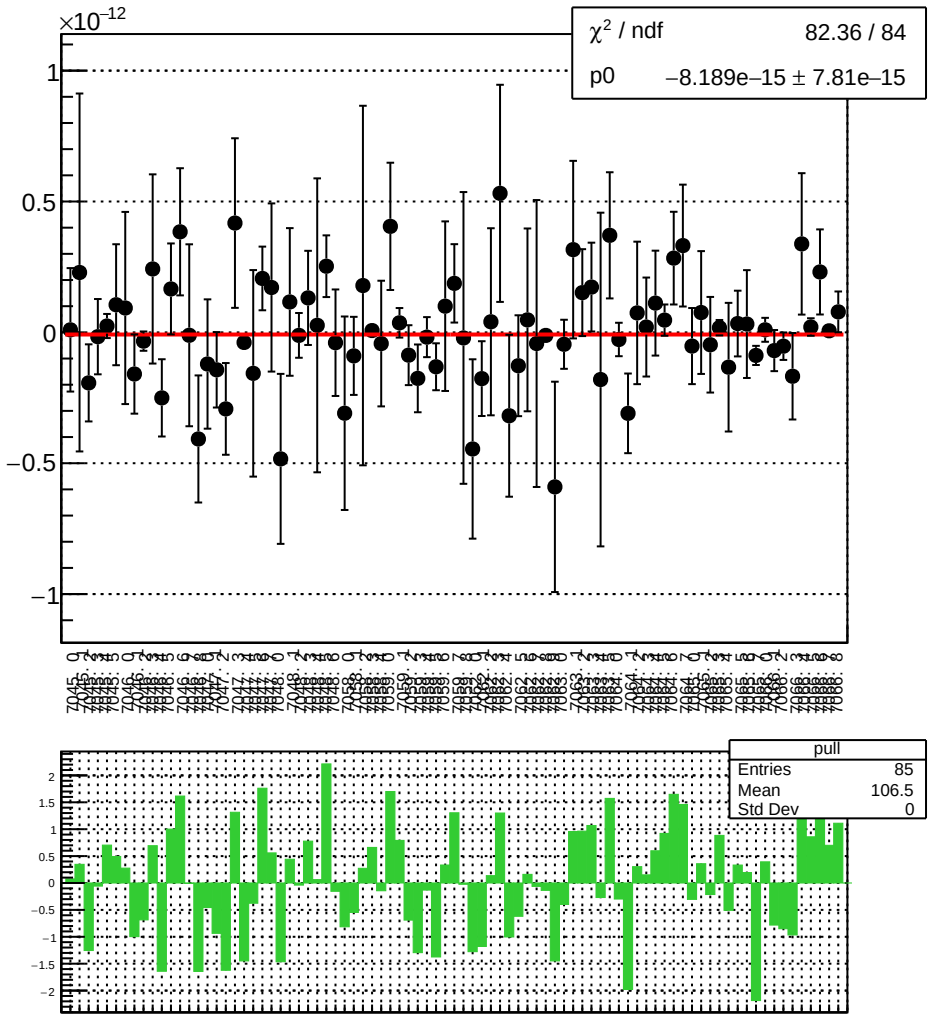

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.083e+04 / 84
p0 0.002213 ± 1.73e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

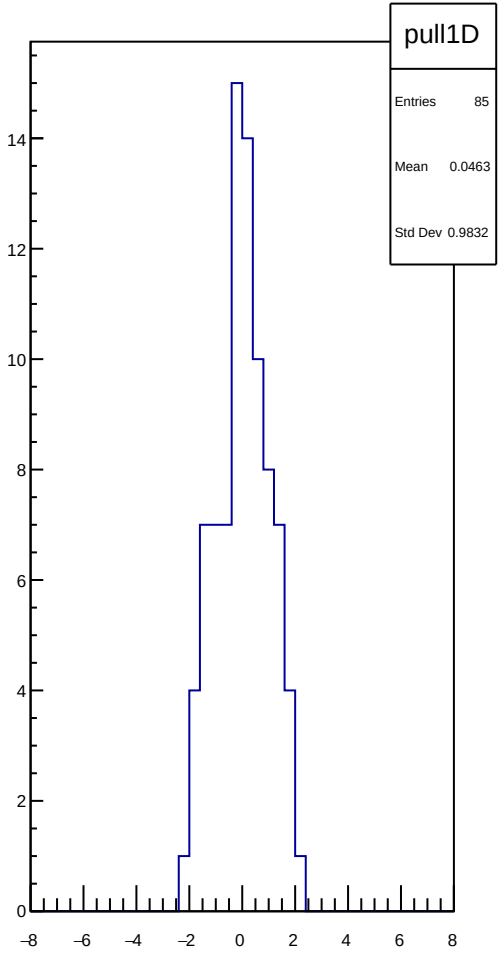

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.17 / 84
p0 0.05066 ± 0.02373
pull
Entries 85
Mean 119.5
Std Dev 0
pull1D
Entries 85
Mean 0.05983
Std Dev 0.9195

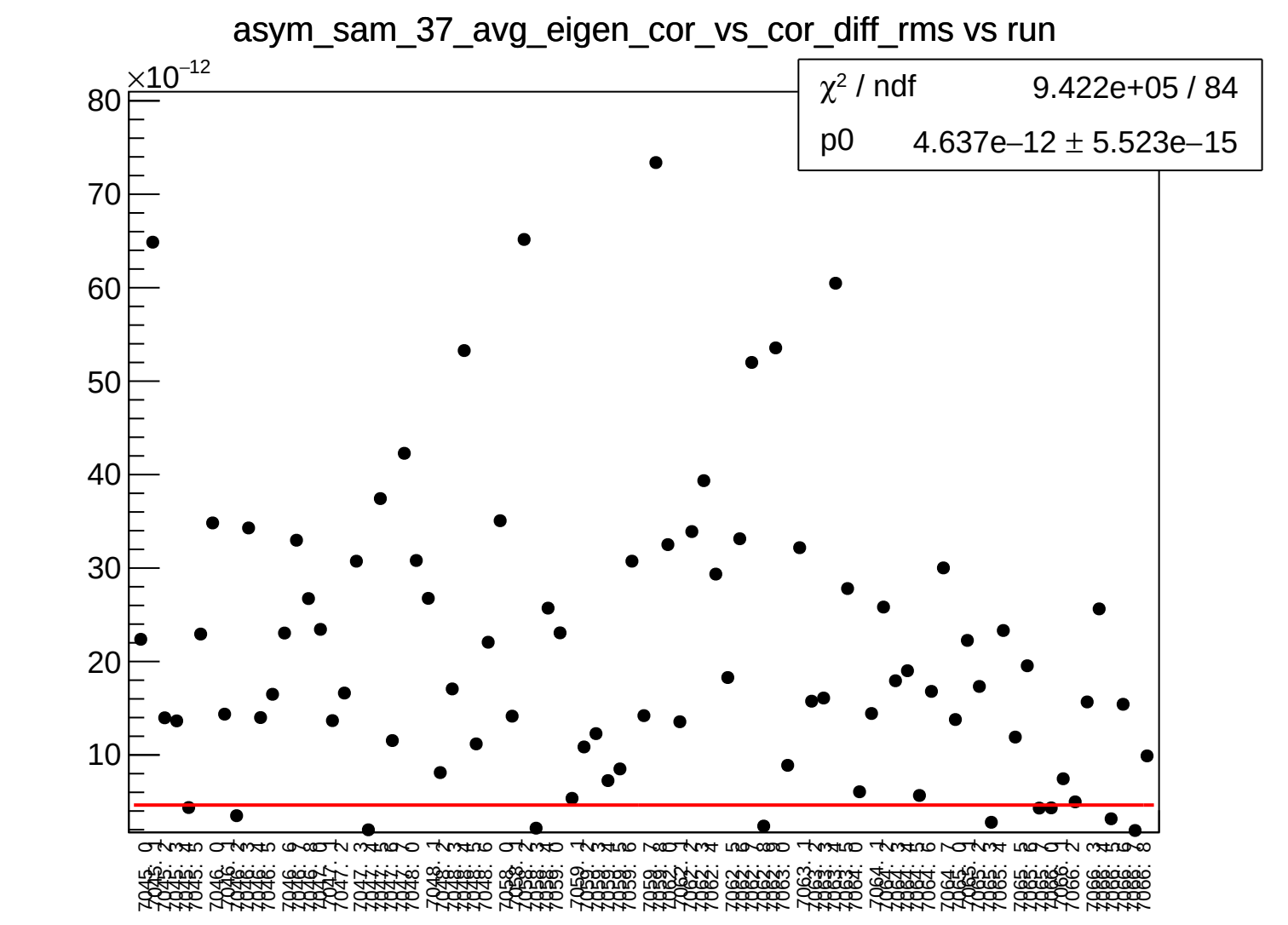

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.853e+05 / 84
p0 19.58 ± 0.01678
120
100
80
60
40
20

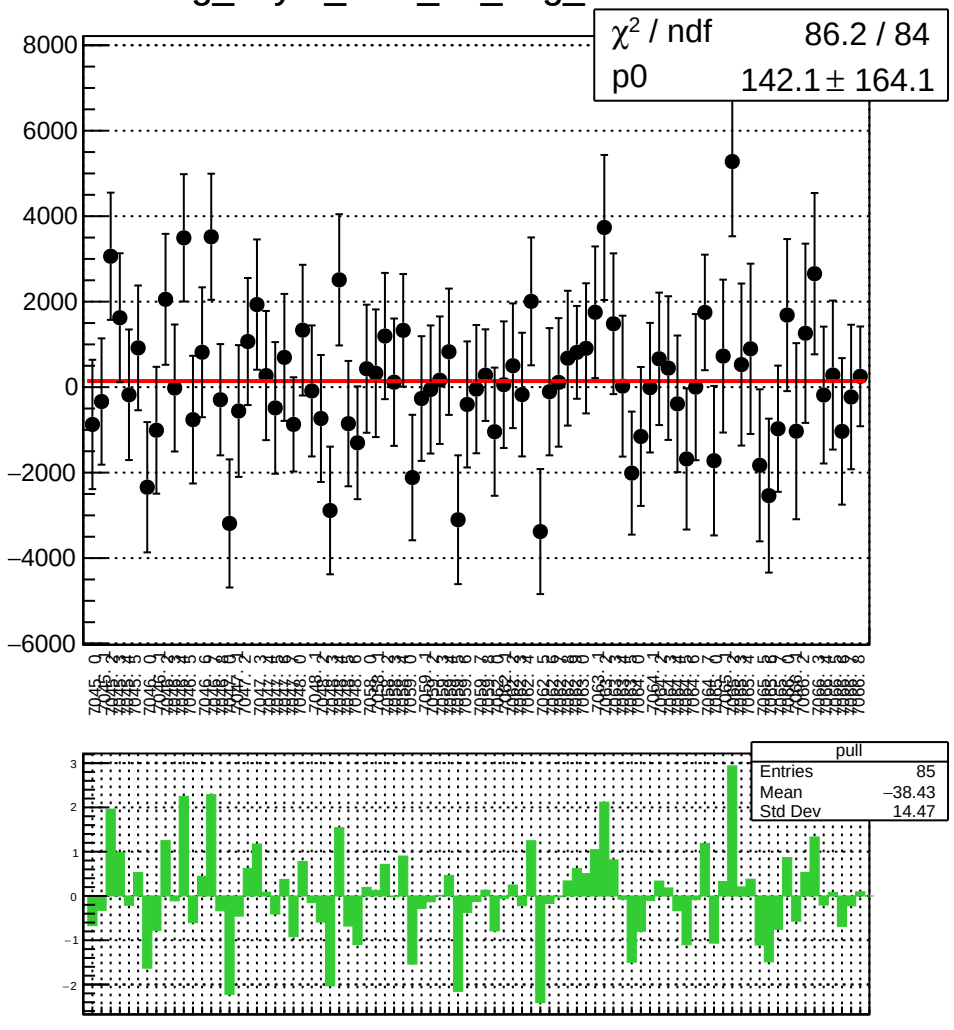

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.17 / 84
p0 0.05066 ± 0.02373
pull
Entries 85
Mean 119.5
Std Dev 0
pull1D
Entries 85
Mean 0.05983
Std Dev 0.9195

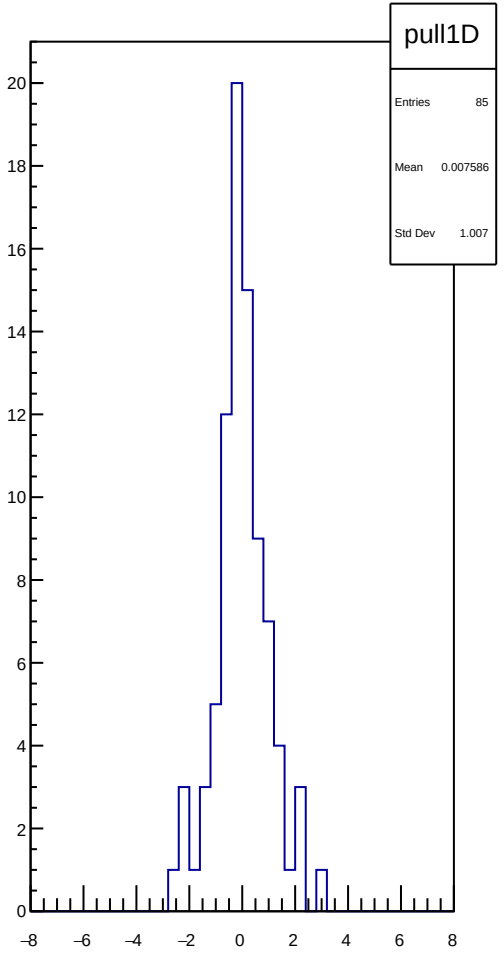

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.853e+05 / 84
p0 19.58 ± 0.01678
120
100
80
60
40
20

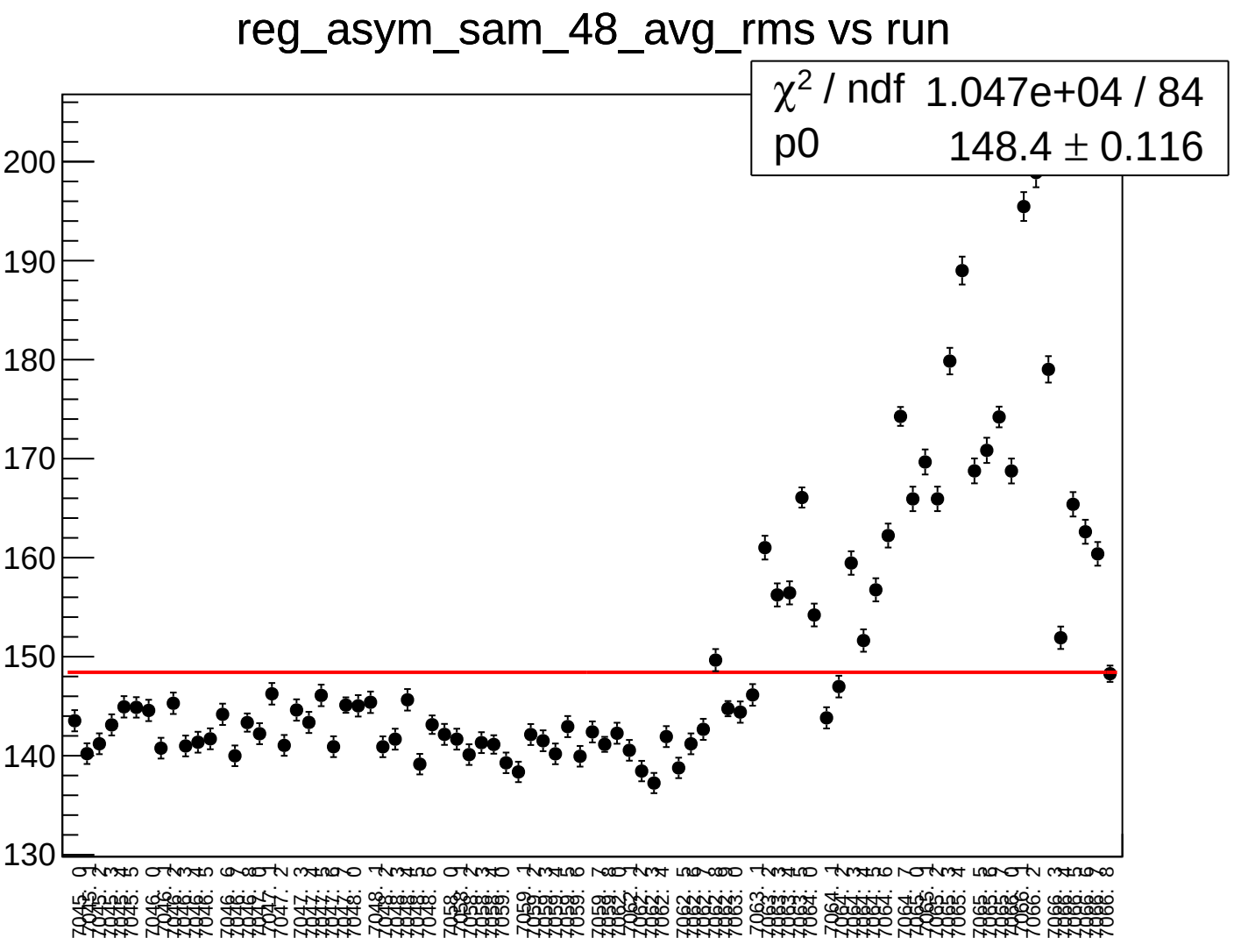

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.36 / 84
p0 −8.189e−15 ± 7.81e−15
pull
Entries 85
Mean 106.5
Std Dev 0

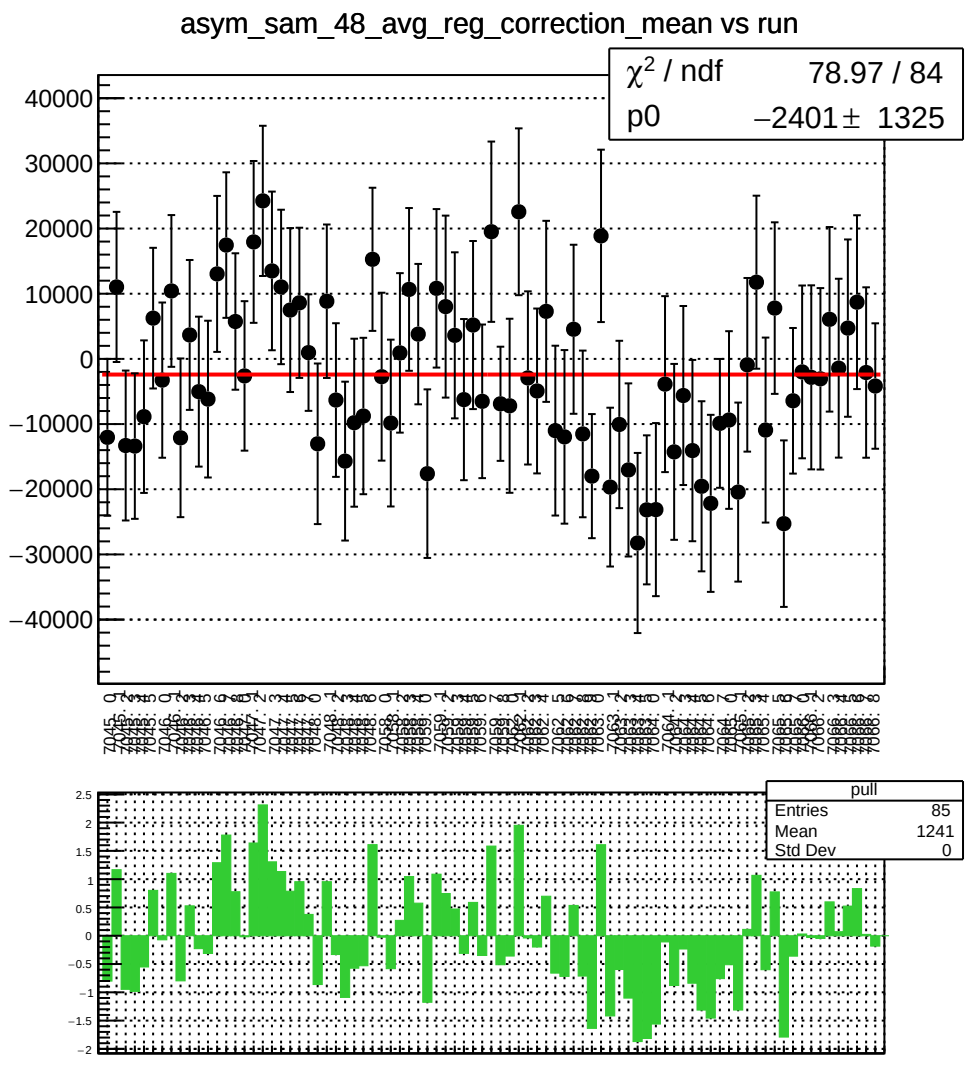

pull1D
Entries 85
Mean 0.0463
Std Dev 0.9832

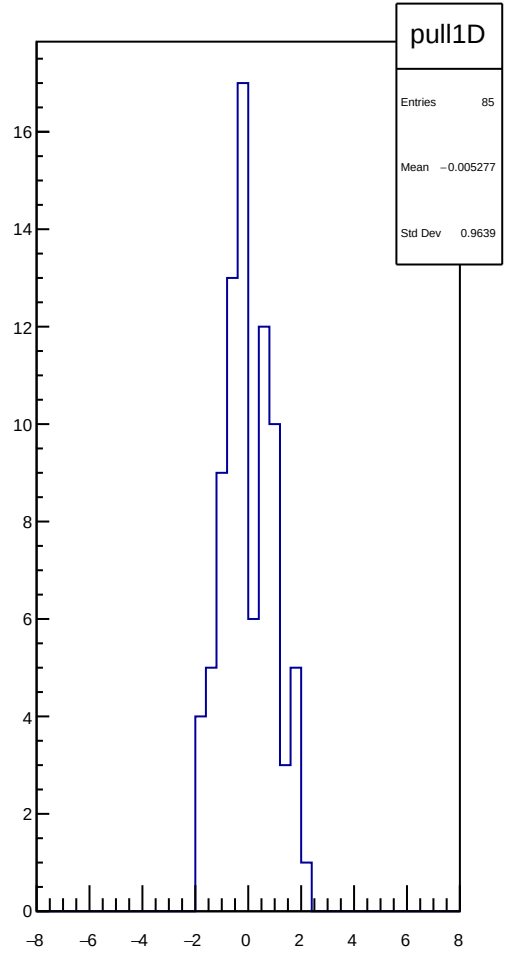

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 9.422e+05 / 84
p0 4.637e−12 ± 5.523e−15

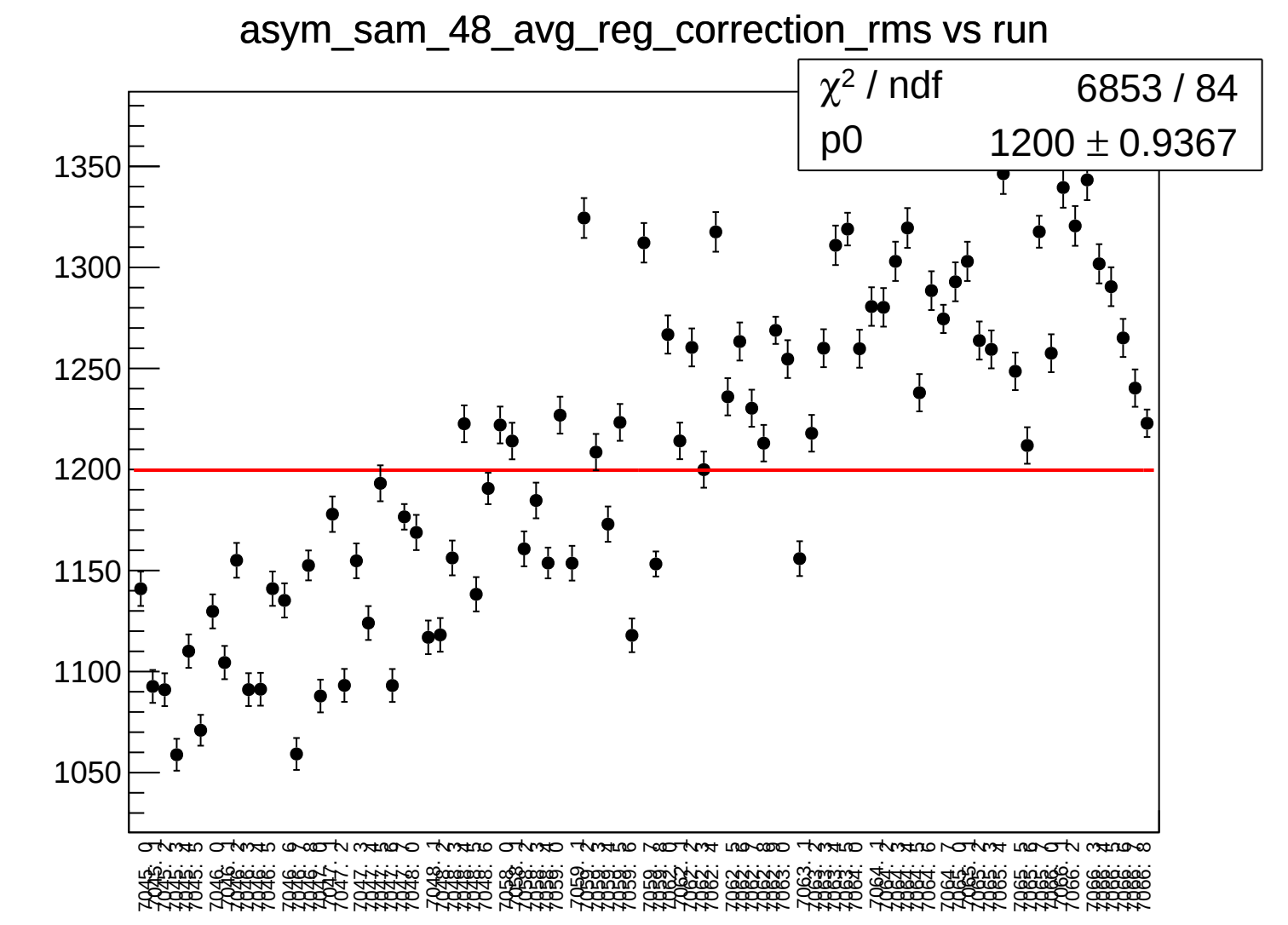

reg_asym_sam_48_avg_mean vs run
χ² / ndf 86.2 / 84
p0 142.1 ± 164.1
pull
Entries 85
Mean −38.43
Std Dev 14.47

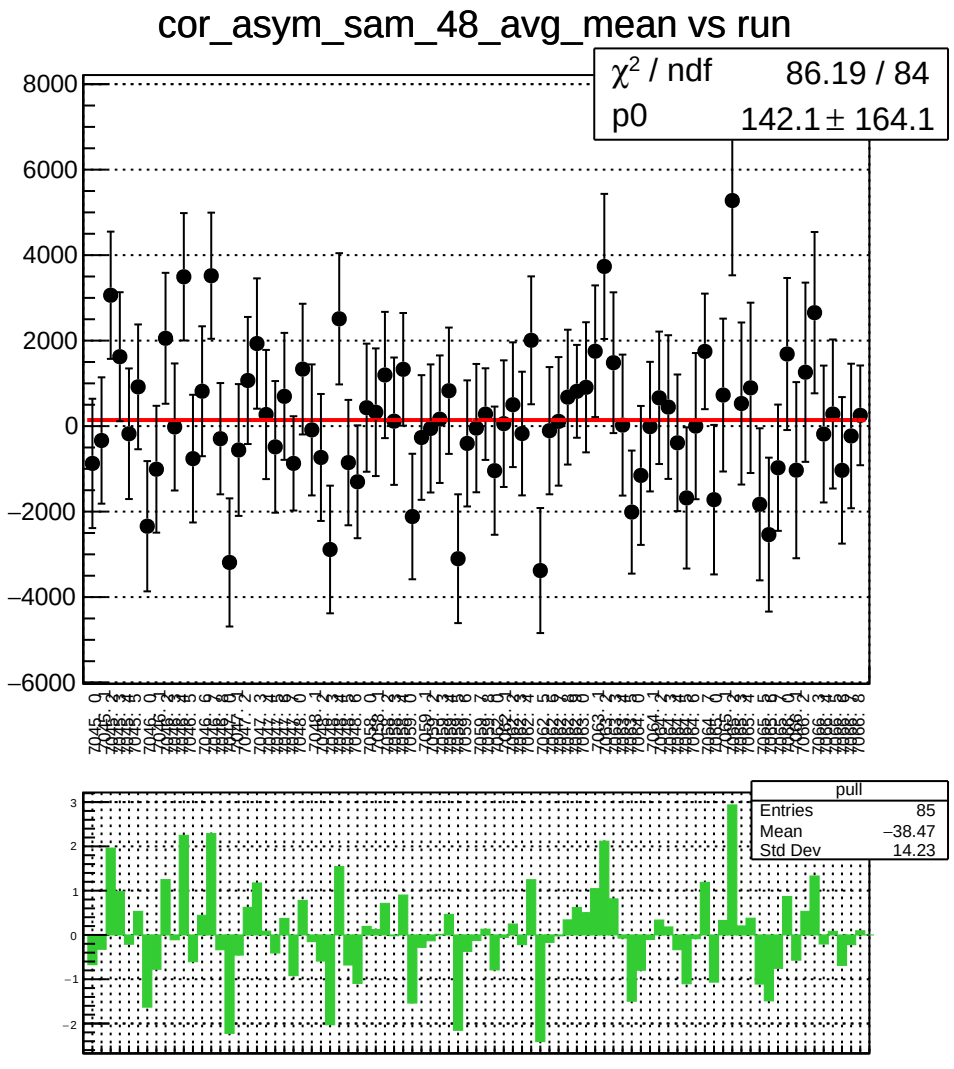

pull1D
Entries 85
Mean 0.007586
Std Dev 1.007

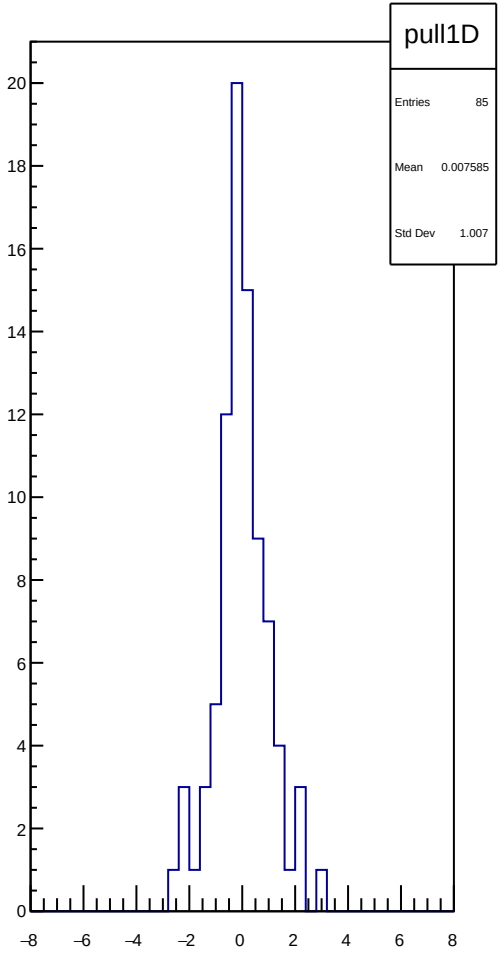

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.047e+04 / 84
p0 148.4 ± 0.116
200
190
180
170
160
150
140
130

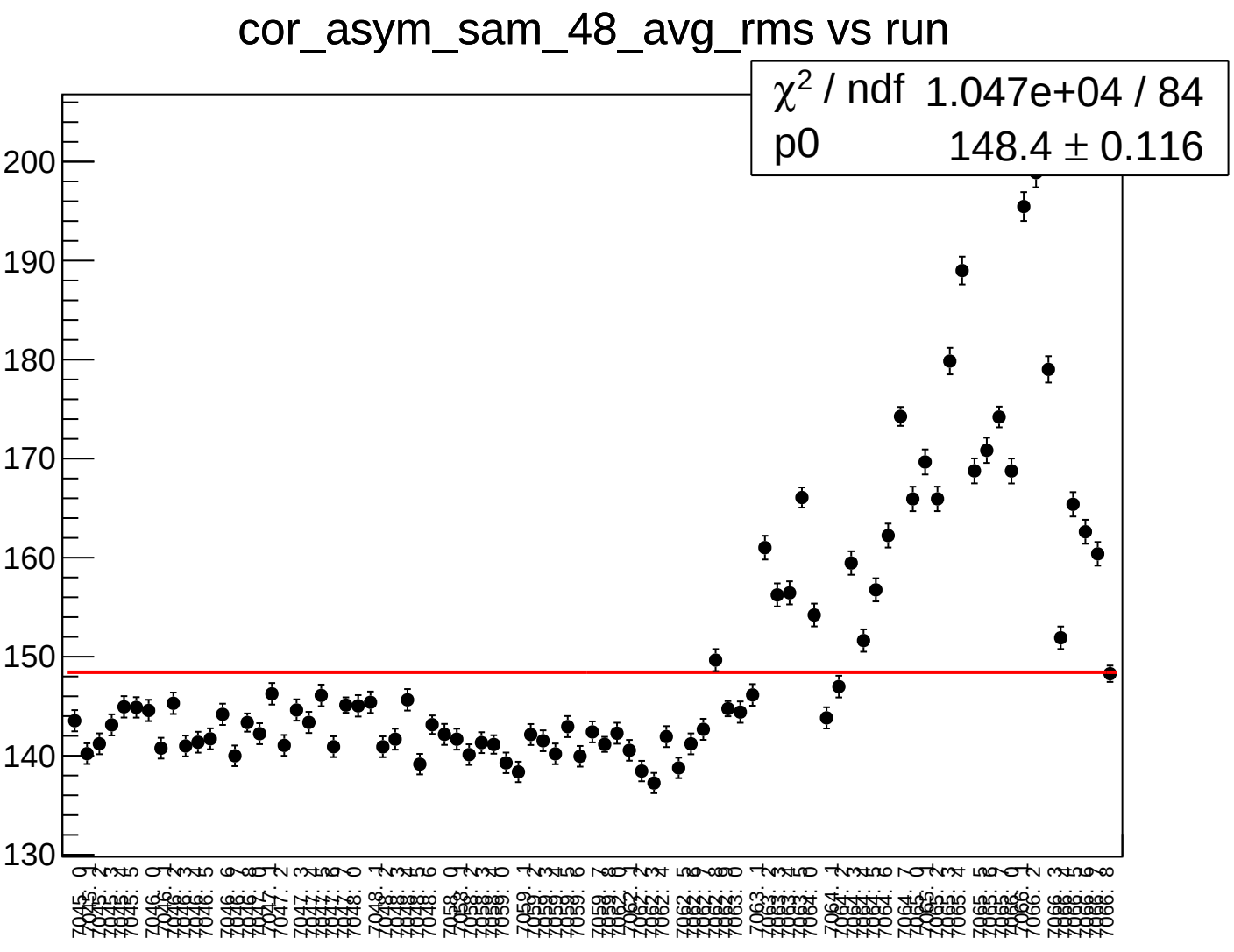

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 78.97 / 84
p0 −2401 ± 1325
pull
Entries 85
Mean 1241
Std Dev 0

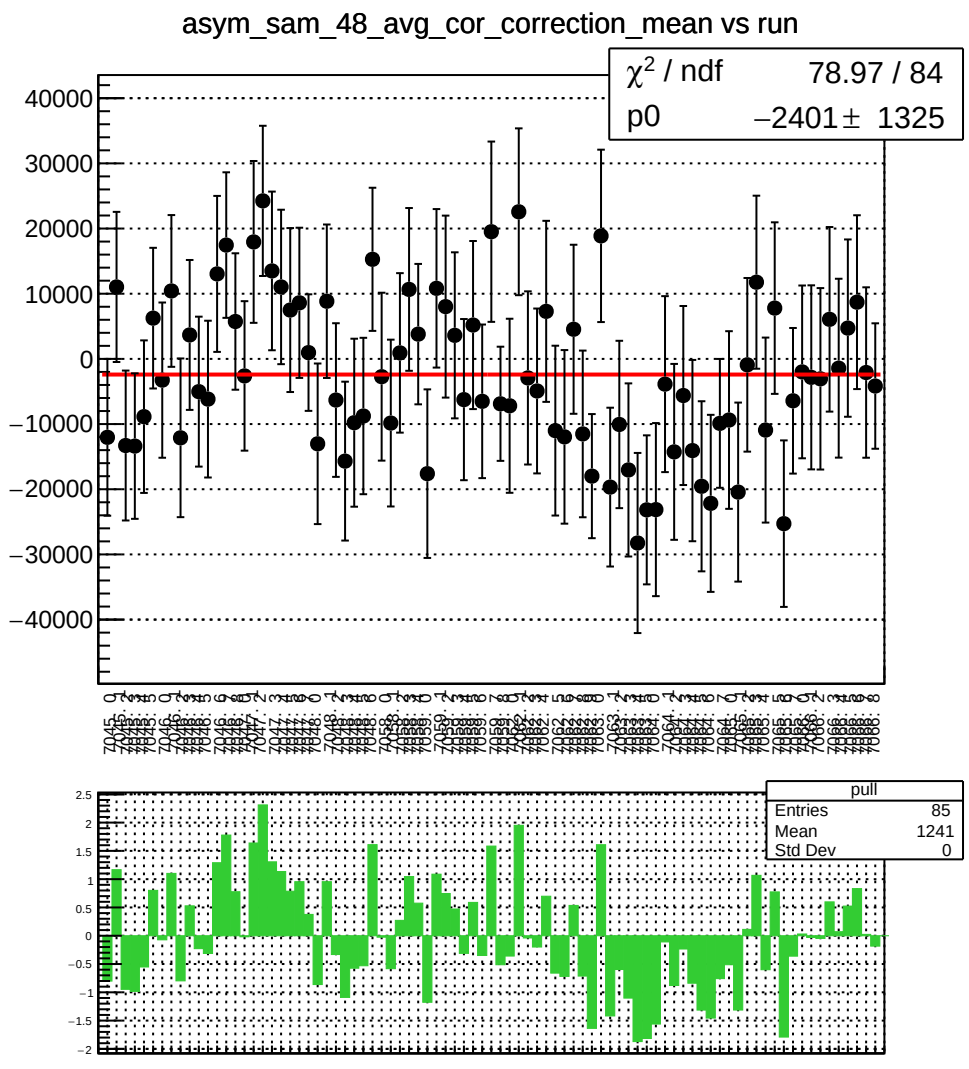

pull1D
Entries 85
Mean −0.005277
Std Dev 0.9639

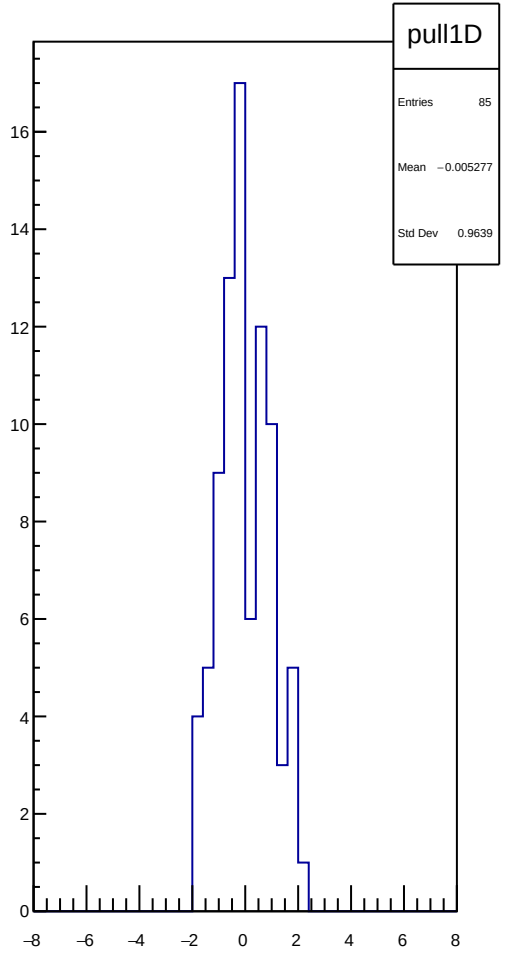

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 6853 / 84
p0 1200 ± 0.9367
1350
1300
1250
1200
1150
1100
1050

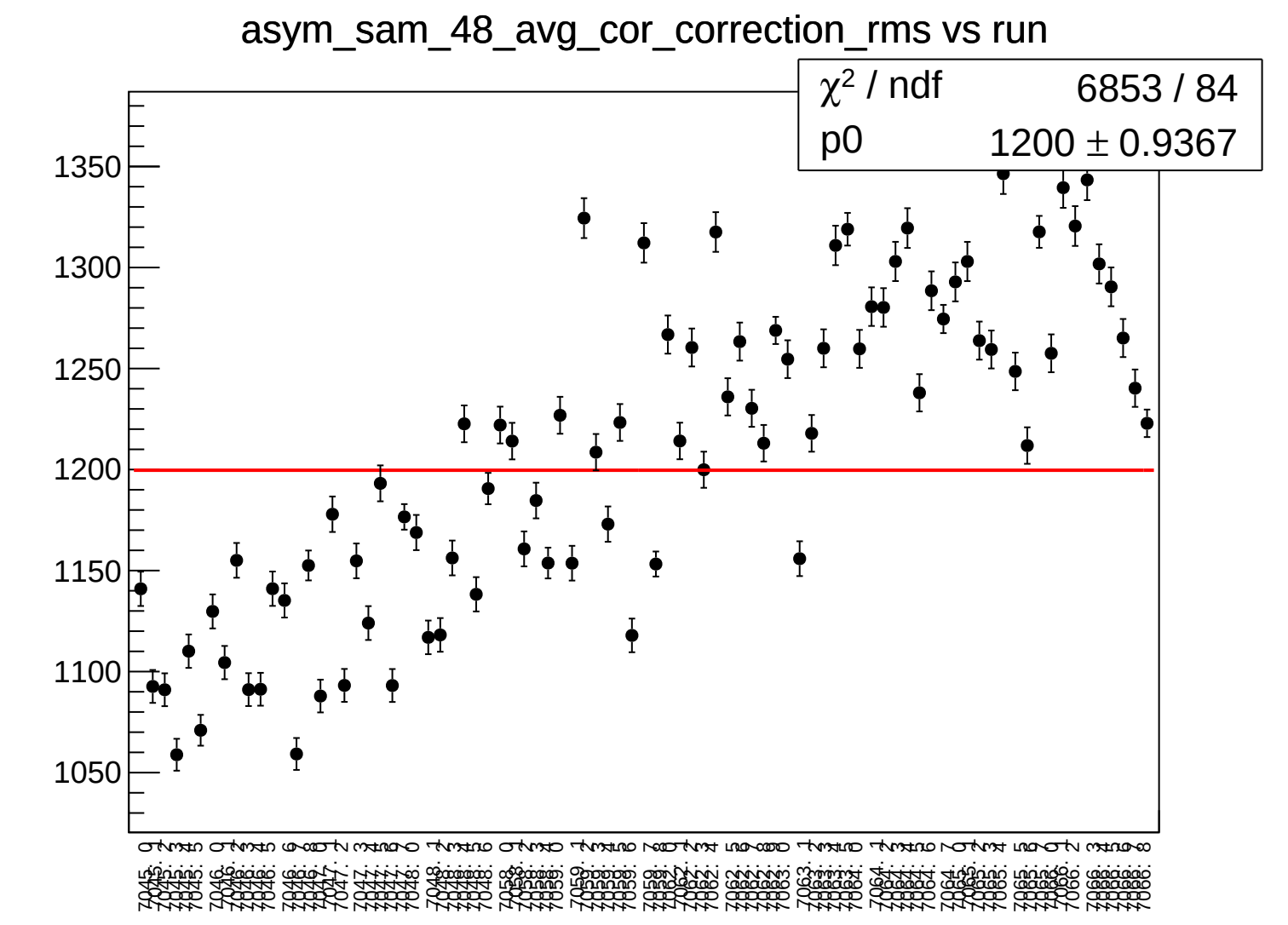

cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.19 / 84
p0 142.1 ± 164.1
pull
Entries 85
Mean −38.47
Std Dev 14.23

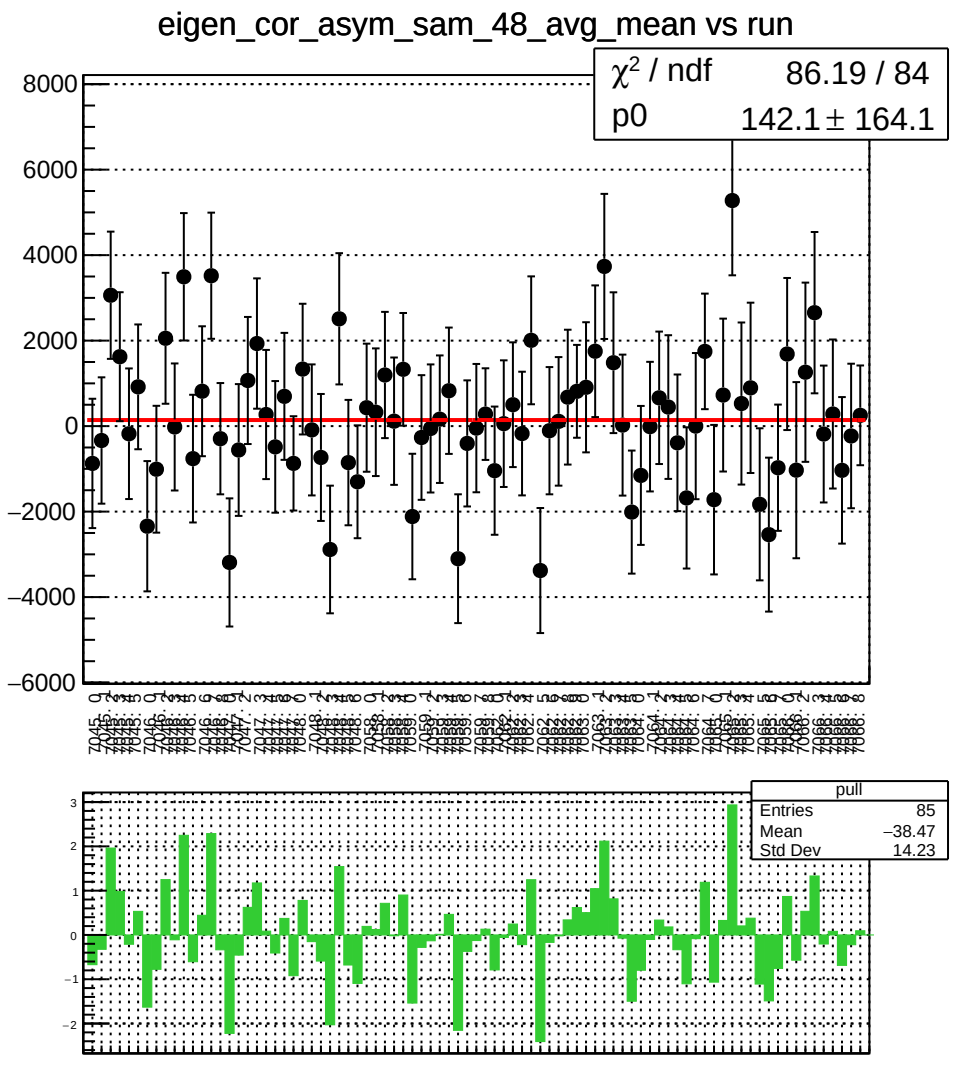

pull1D
Entries 85
Mean 0.007585
Std Dev 1.007

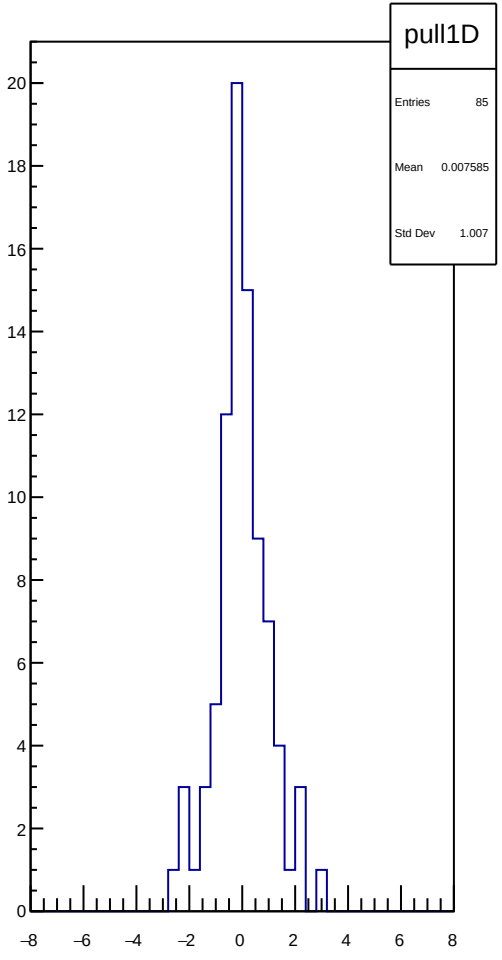

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.047e+04 / 84
p0 148.4 ± 0.116
200
190
180
170
160
150
140
130

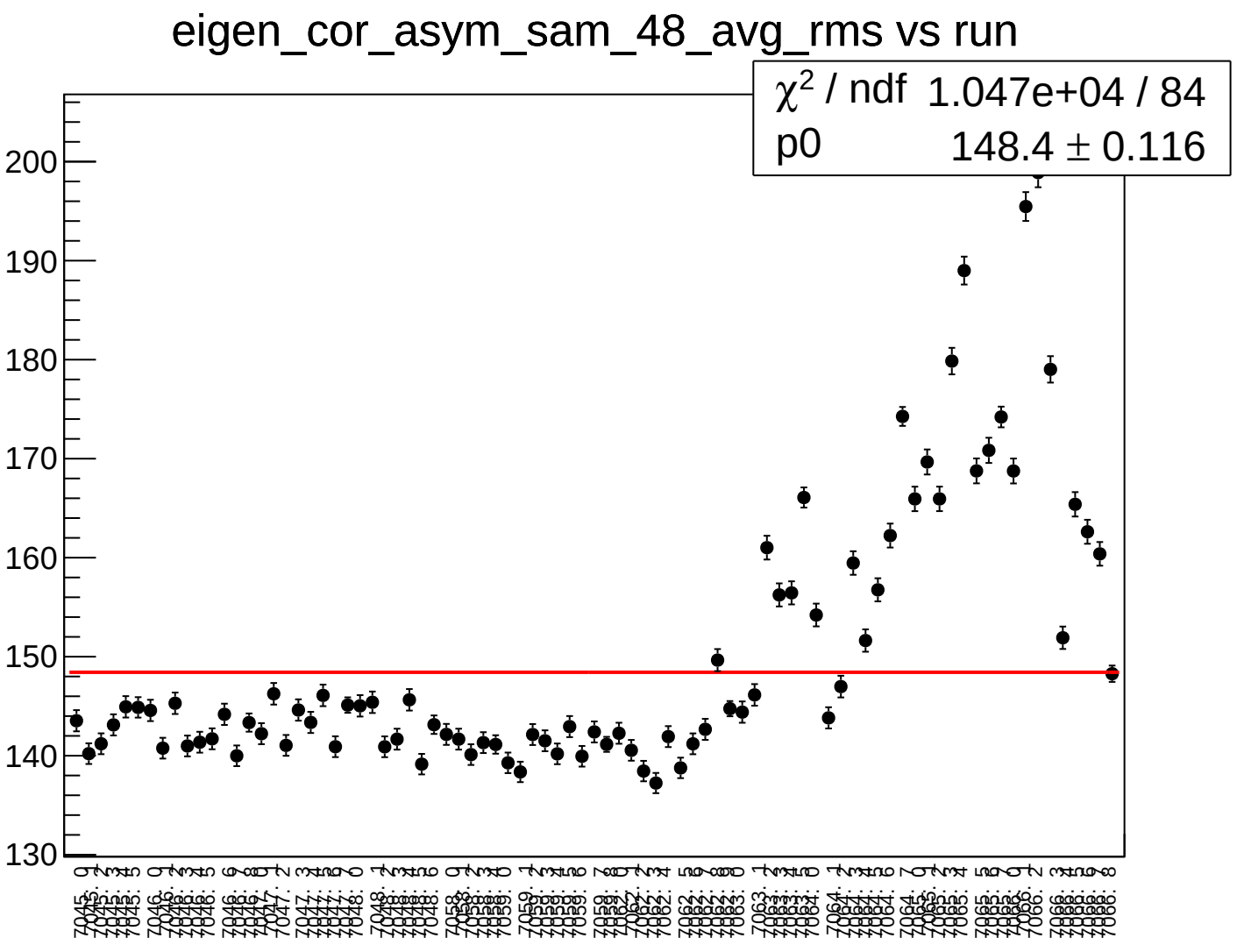

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 78.97 / 84
p0 −2401 ± 1325
pull
Entries 85
Mean 1241
Std Dev 0

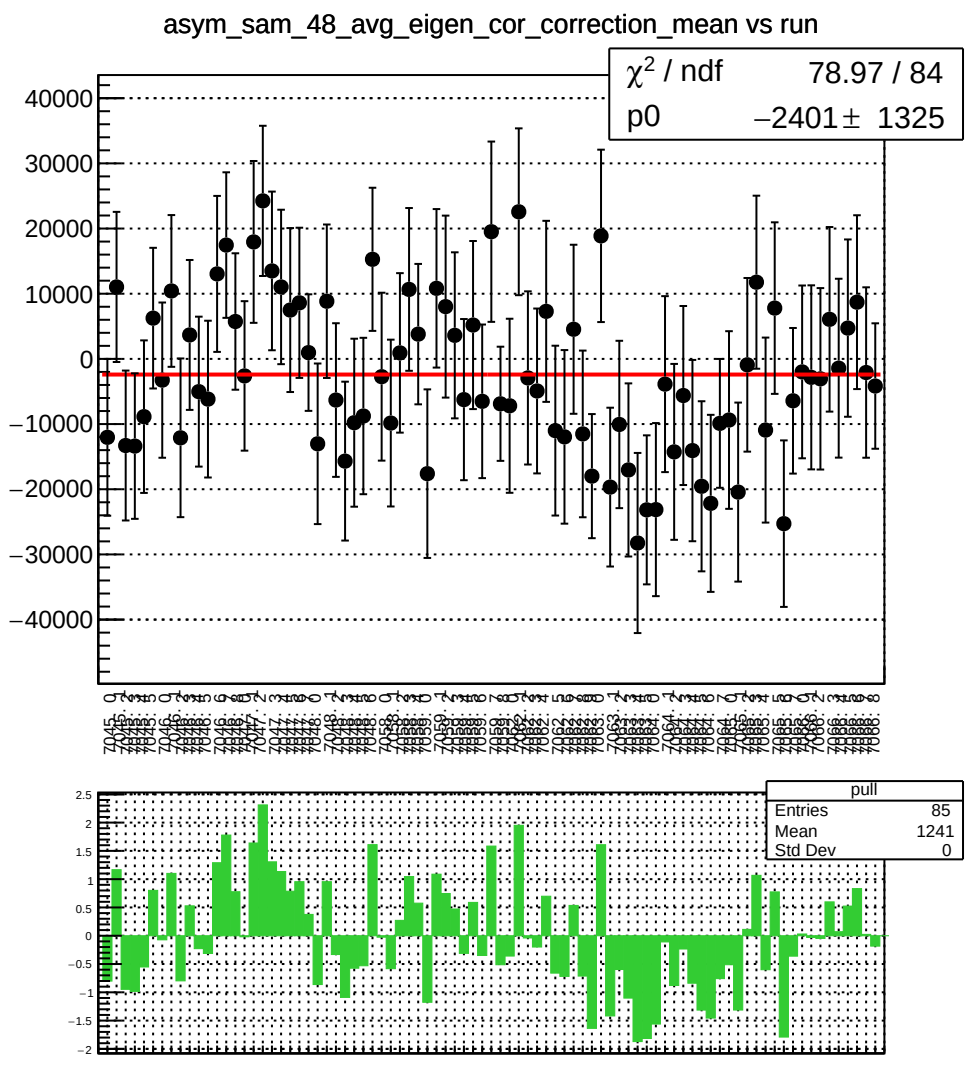

pull1D
Entries 85
Mean −0.005277
Std Dev 0.9639

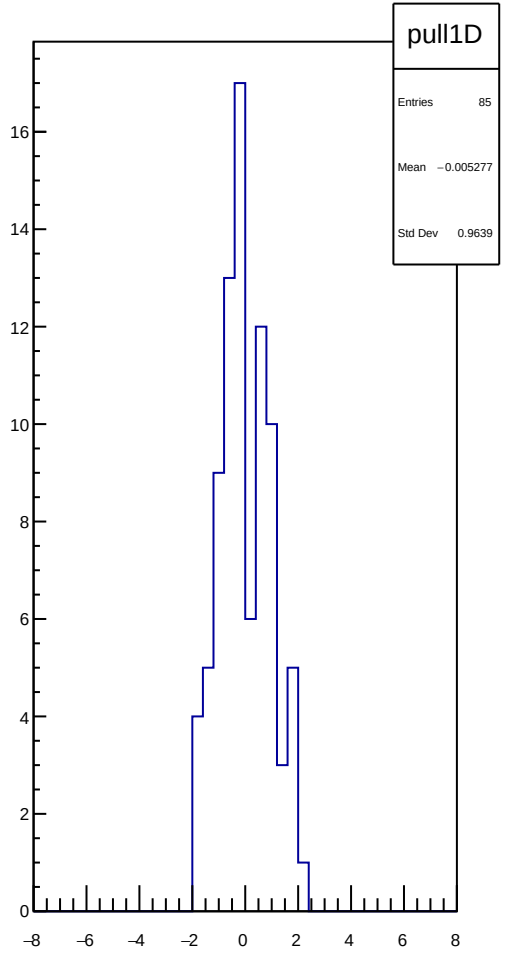

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 6853 / 84
p0 1200 ± 0.9367
1350
1300
1250
1200
1150
1100
1050

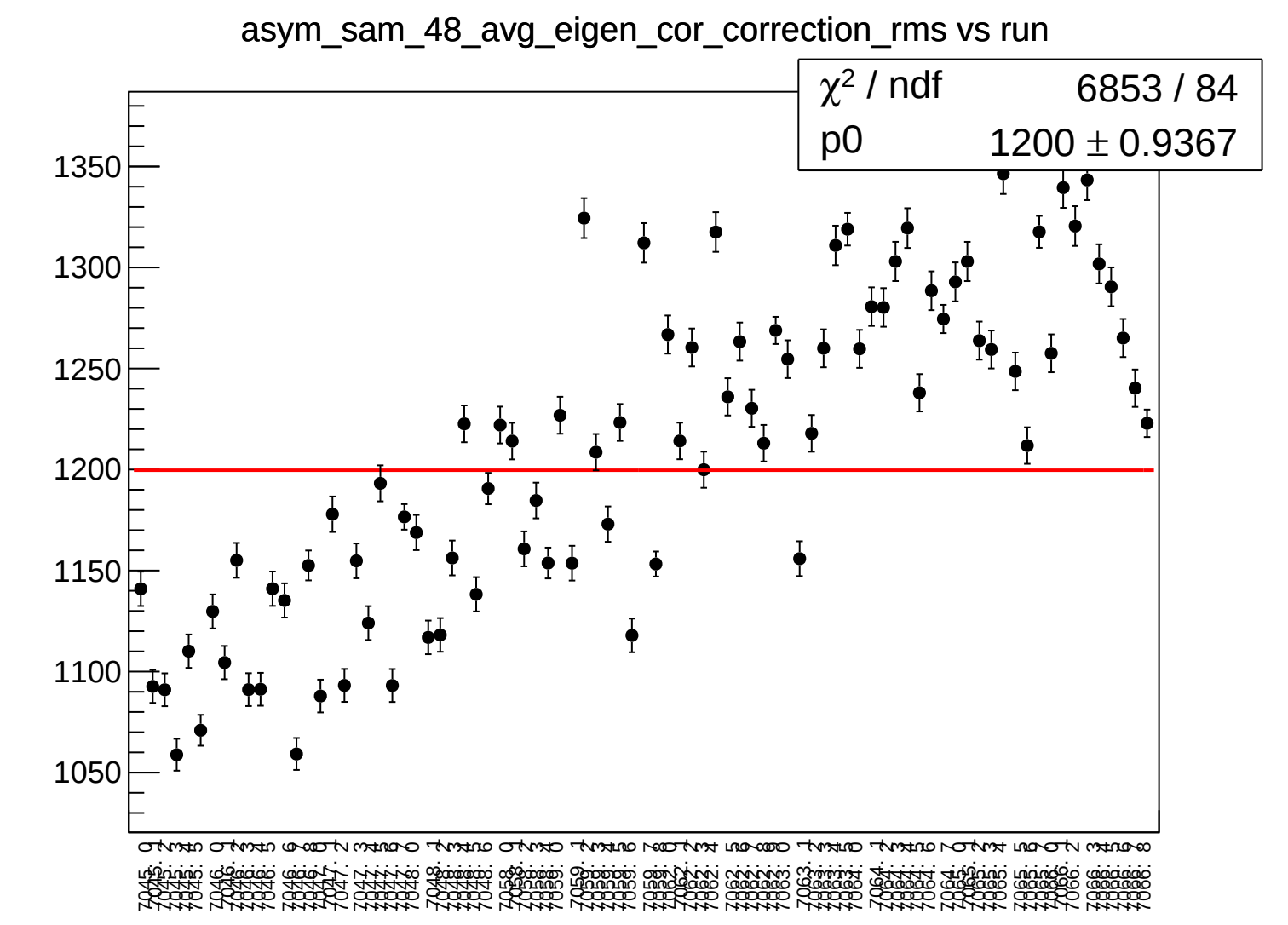

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.19 / 84
p0 142.1 ± 164.1
pull
Entries 85
Mean −38.47
Std Dev 14.23

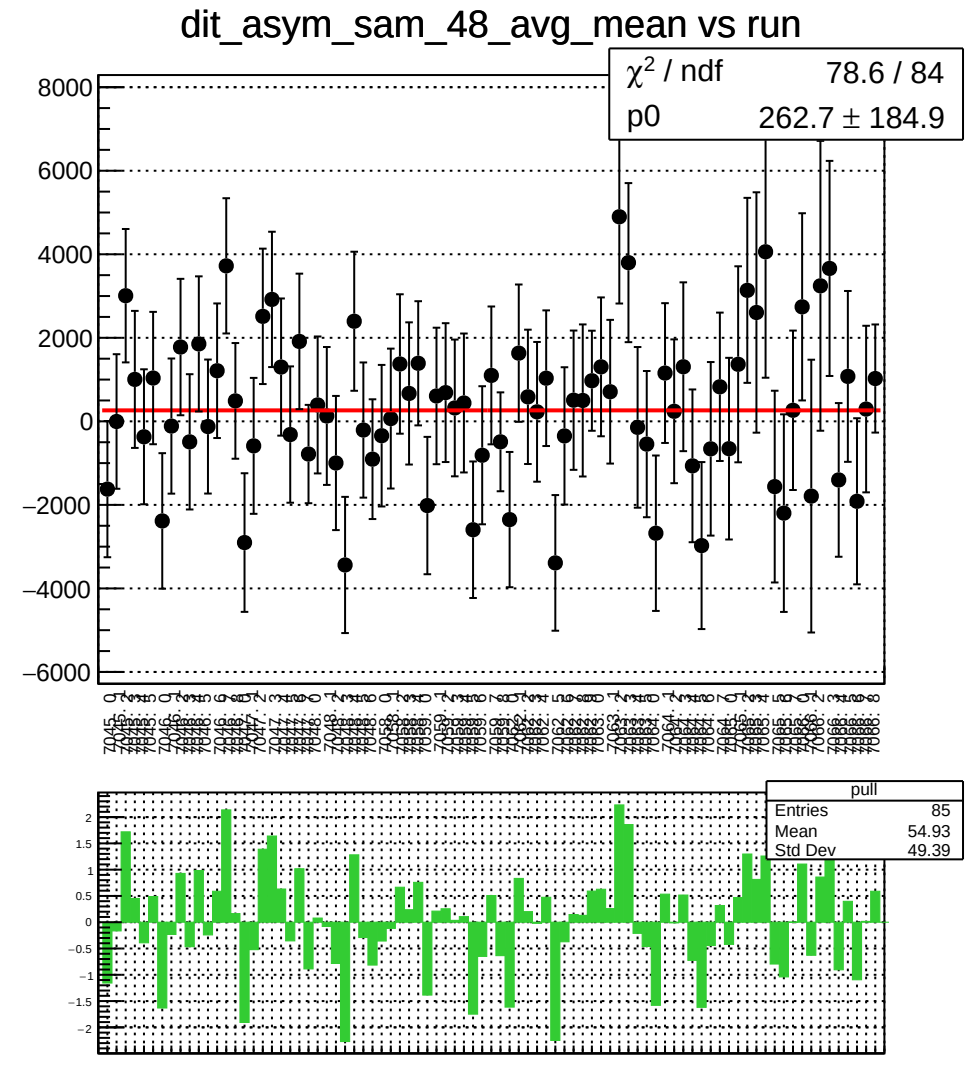

pull1D
Entries 85
Mean 0.007585
Std Dev 1.007

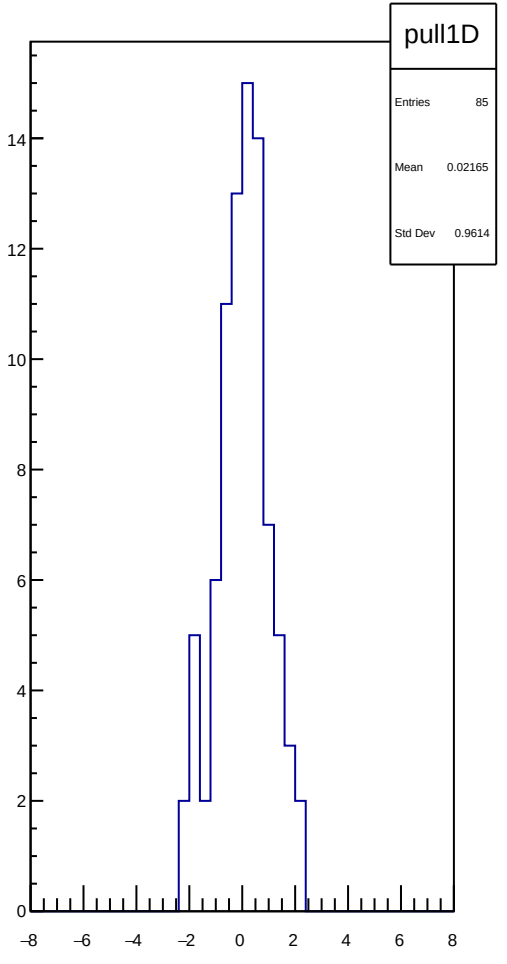

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.047e+04 / 84
p0 148.4 ± 0.116
200
190
180
170
160
150
140
130

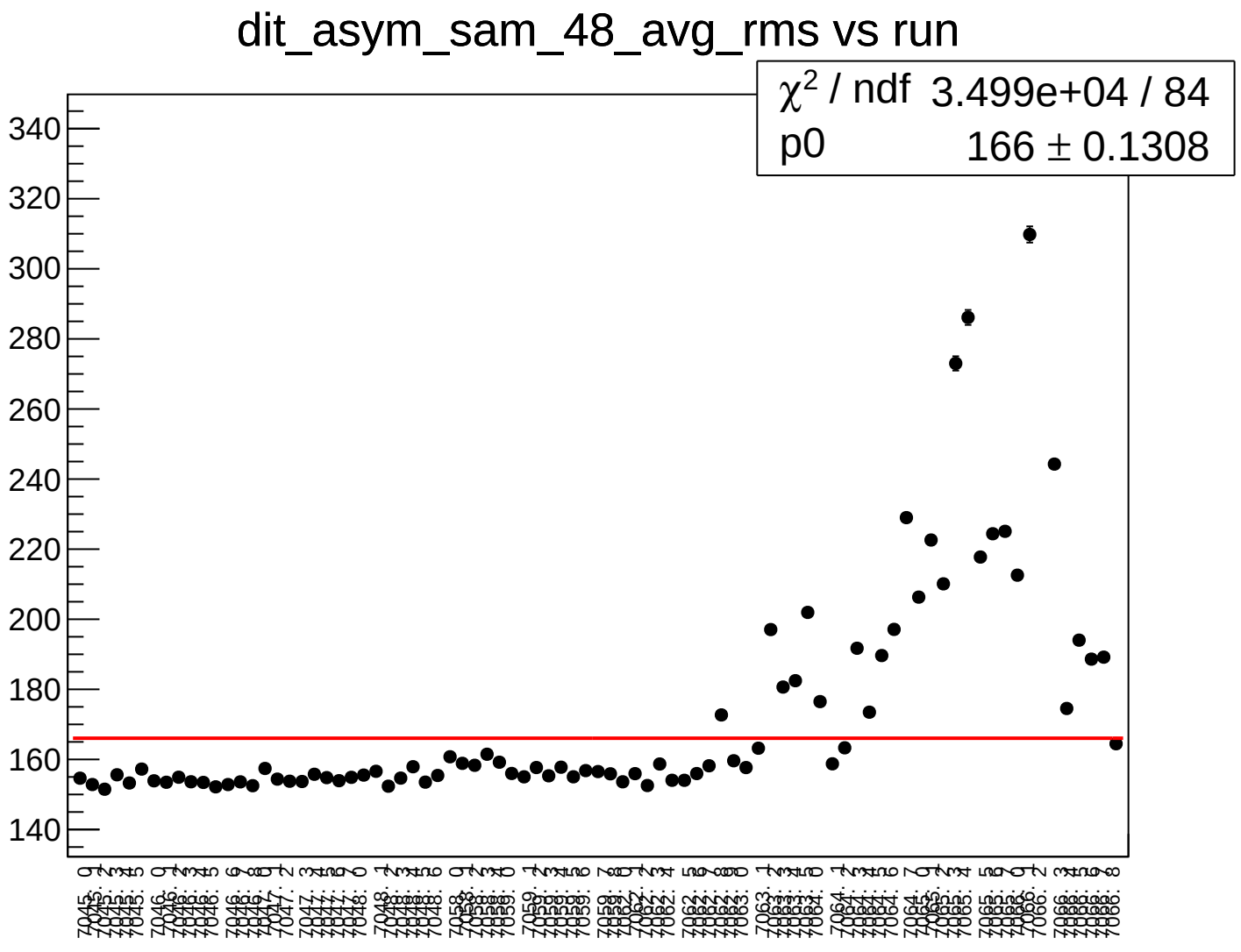

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.97 / 84
p0 −2401 ± 1325
pull
Entries 85
Mean 1241
Std Dev 0

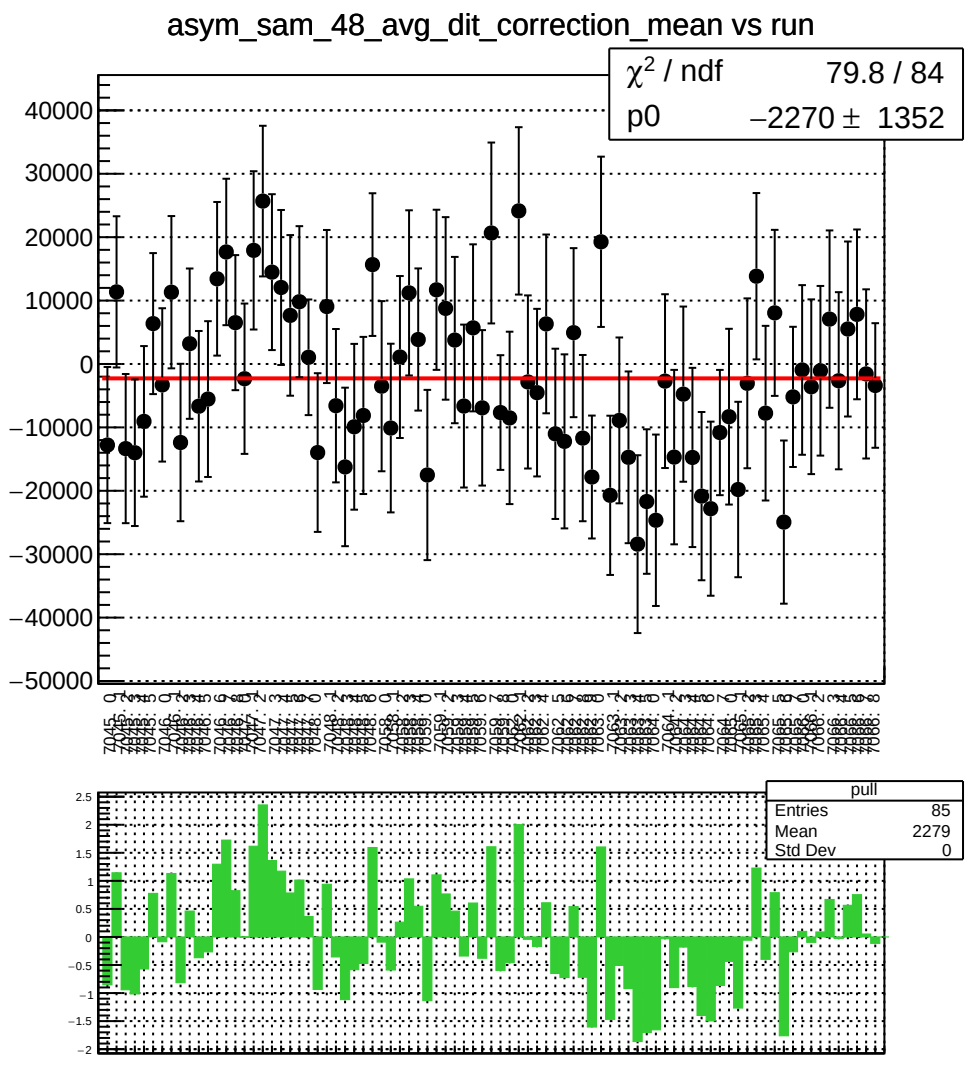

pull1D
Entries 85
Mean −0.005277
Std Dev 0.9639

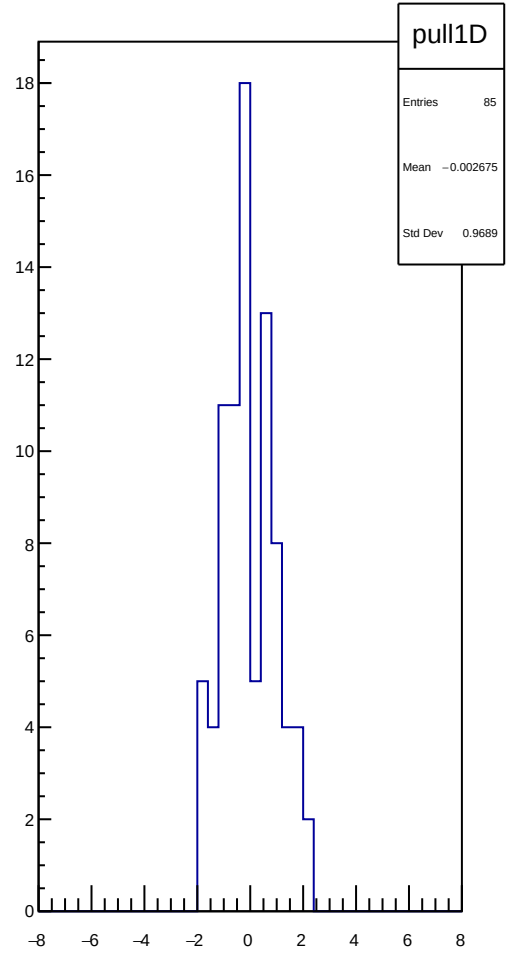

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 6853 / 84
p0 1200 ± 0.9367
1350
1300
1250
1200
1150
1100
1050

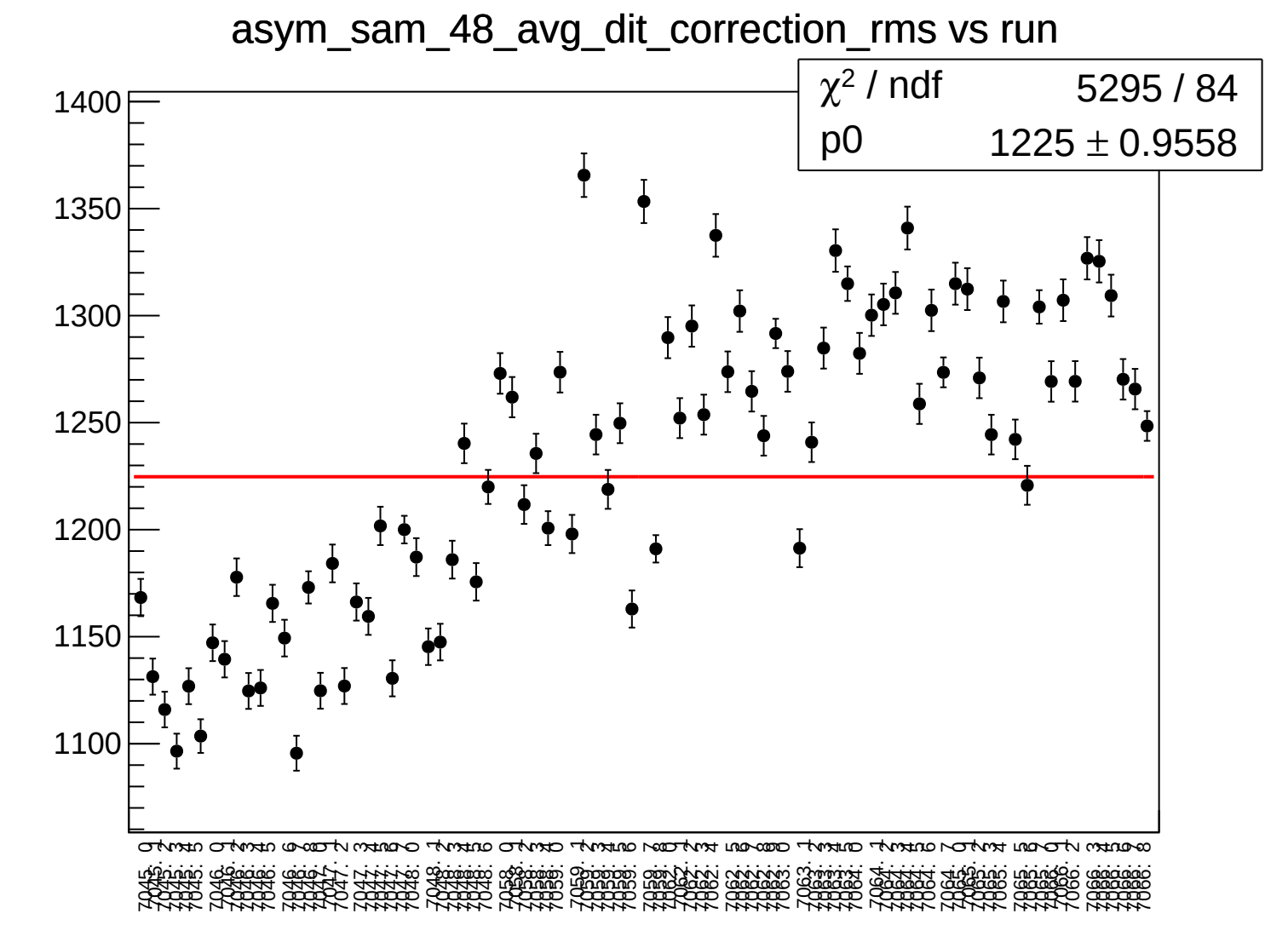

dit_asym_sam_48_avg_mean vs run
χ² / ndf 78.6 / 84
p0 262.7 ± 184.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 54.93
Std Dev 49.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

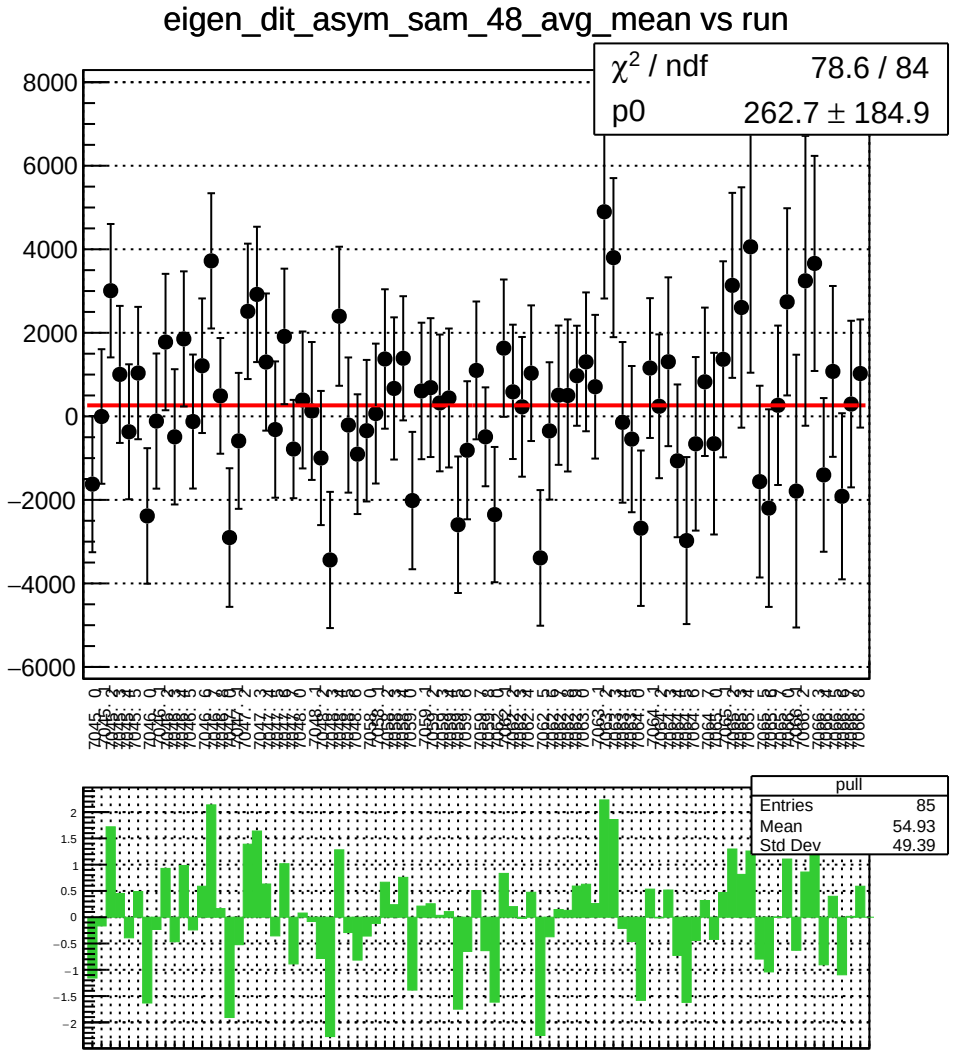

pull1D
Entries 85
Mean 0.02165
Std Dev 0.9614
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

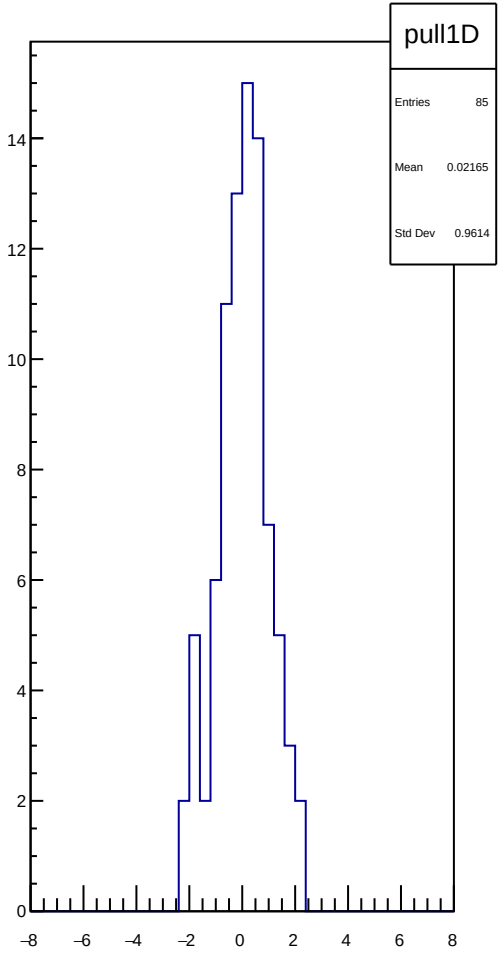

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.499e+04 / 84
p0 166 ± 0.1308
340
320
300
280
260
240
220
200
180
160
140

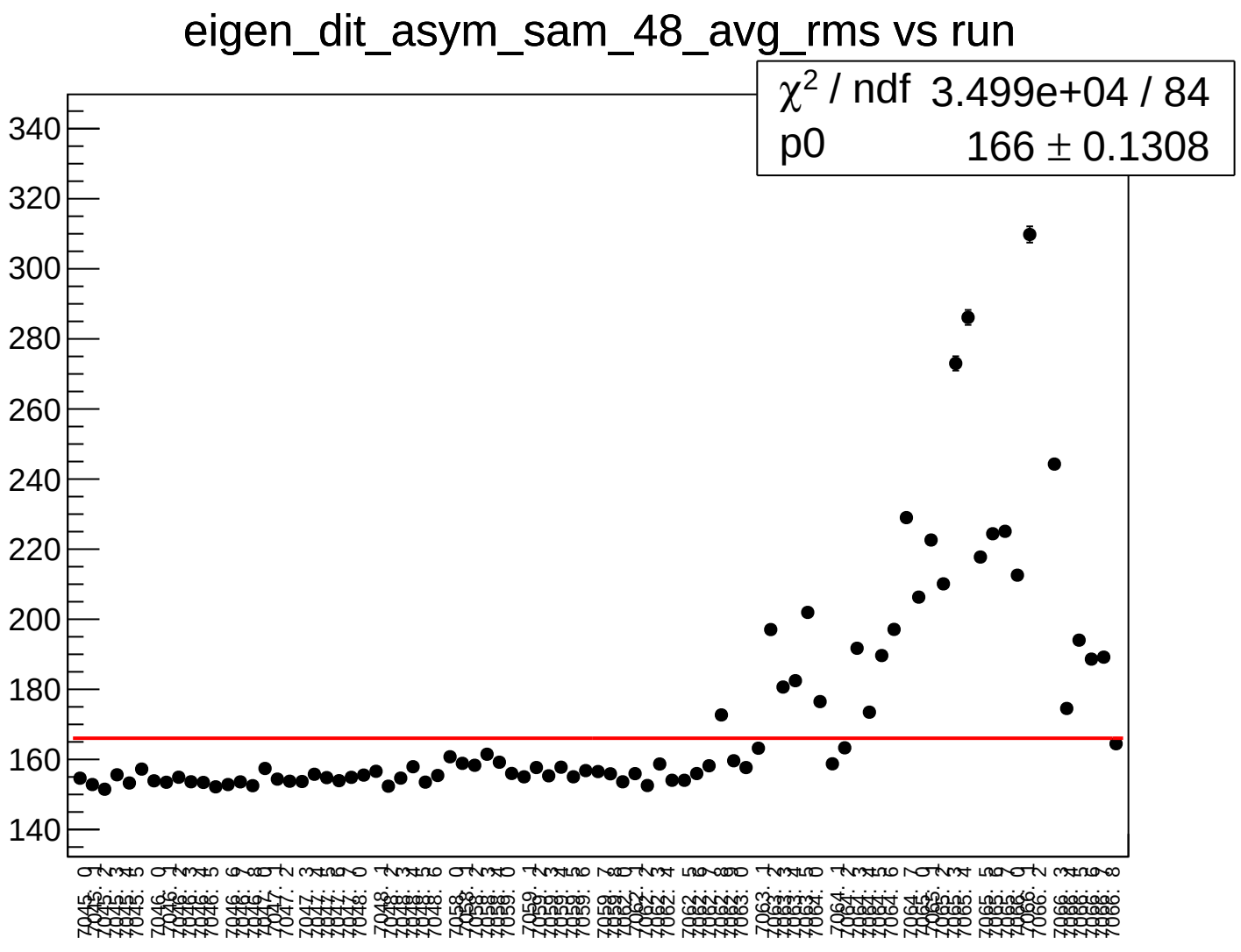

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 79.8 / 84
p0 −2270 ± 1352
pull
Entries 85
Mean 2279
Std Dev 0

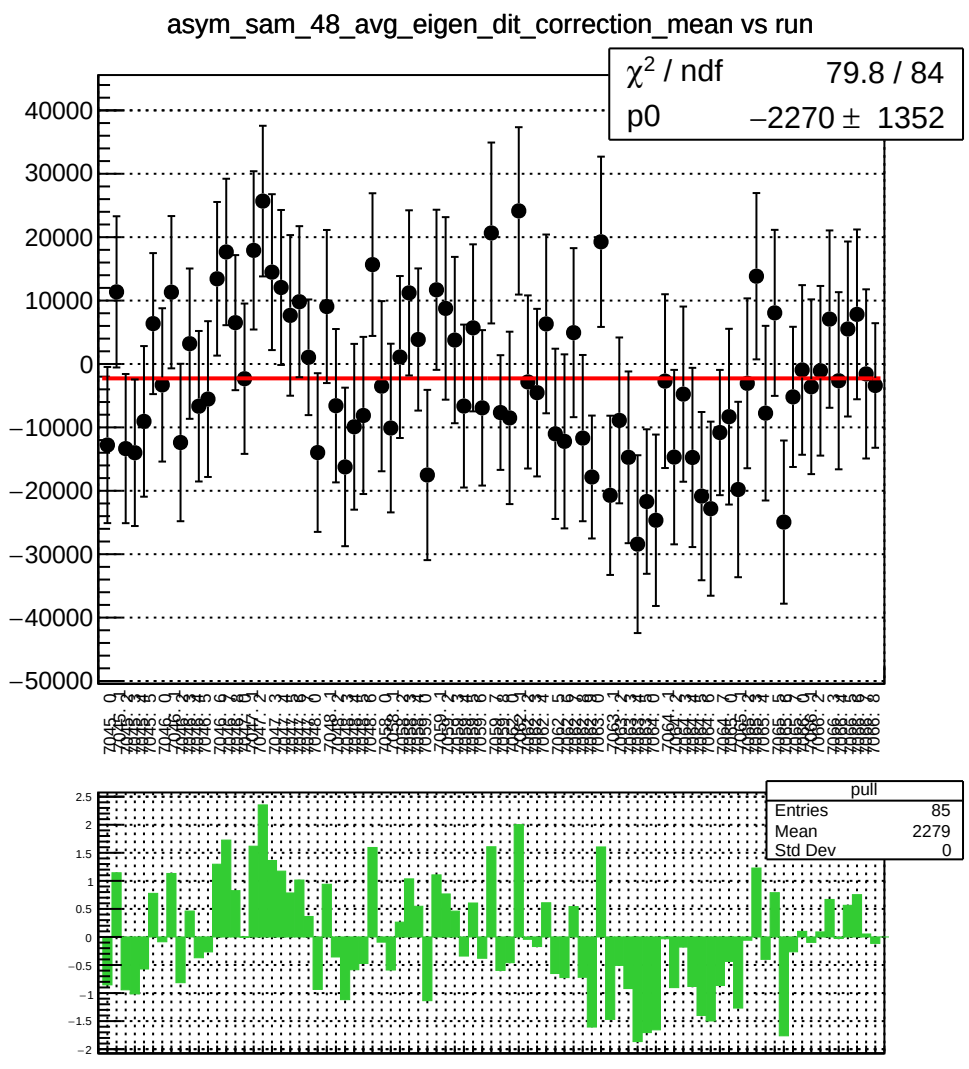

pull1D
Entries 85
Mean −0.002675
Std Dev 0.9689

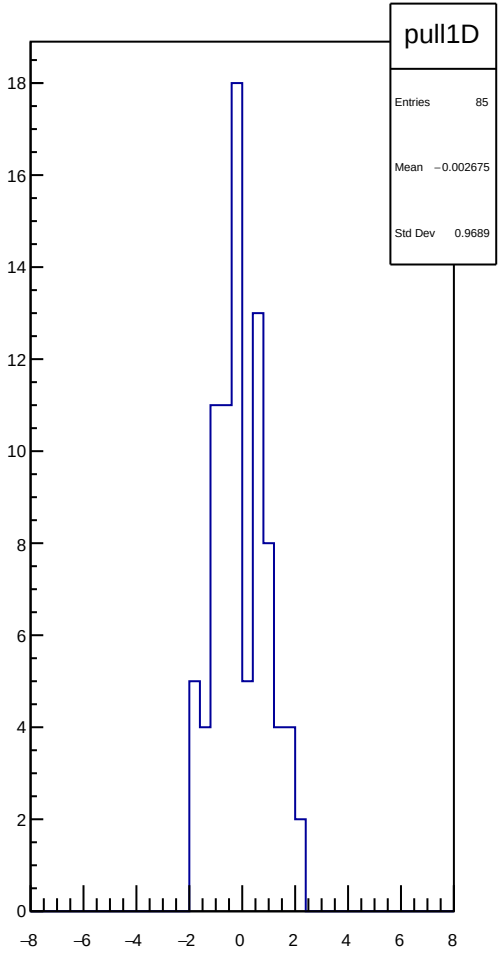

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 5295 / 84
p0 1225 ± 0.9558
1400
1350
1300
1250
1200
1150
1100

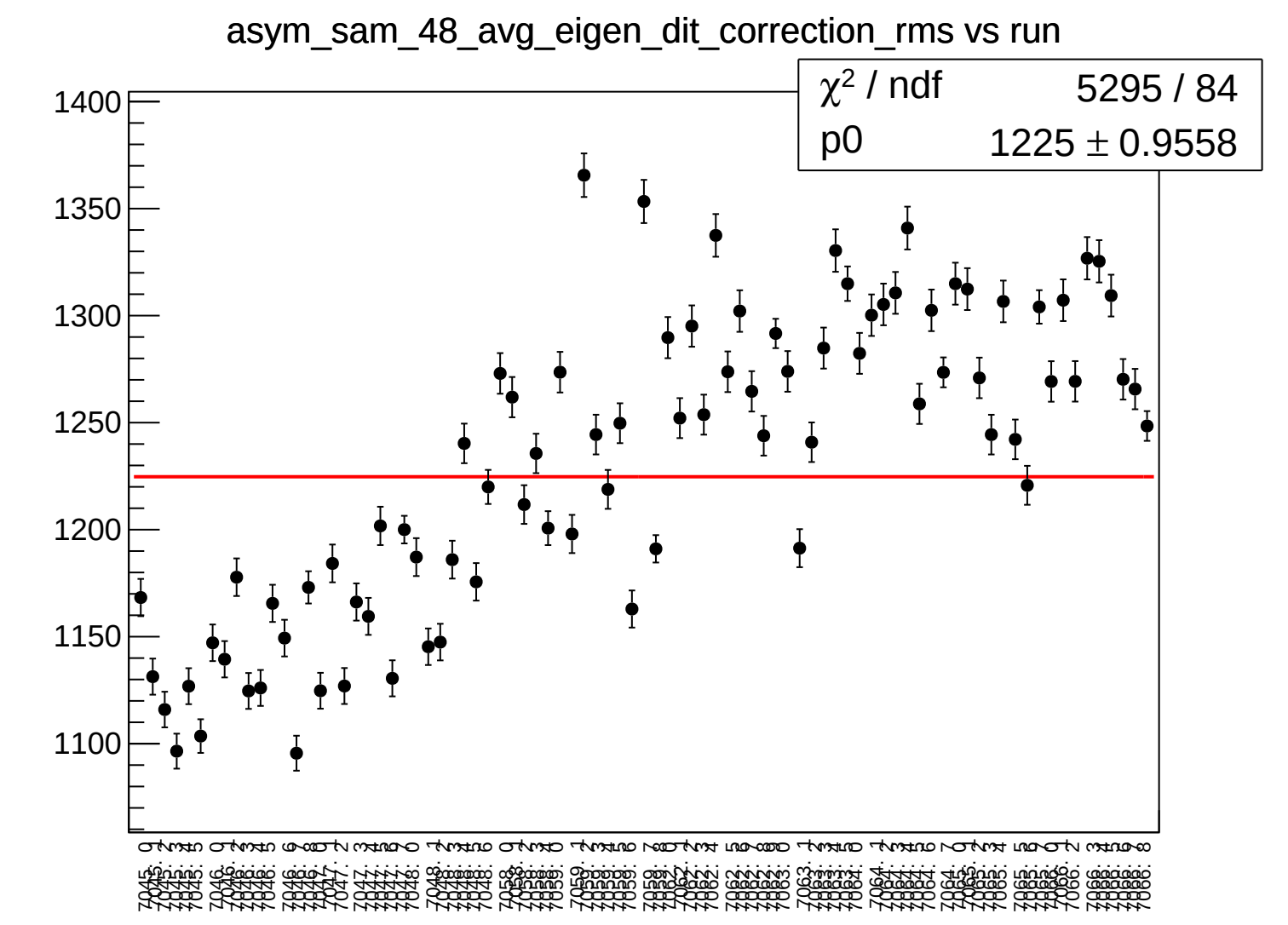

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 78.6 / 84
p0 262.7 ± 184.9
pull
Entries 85
Mean 54.93
Std Dev 49.39

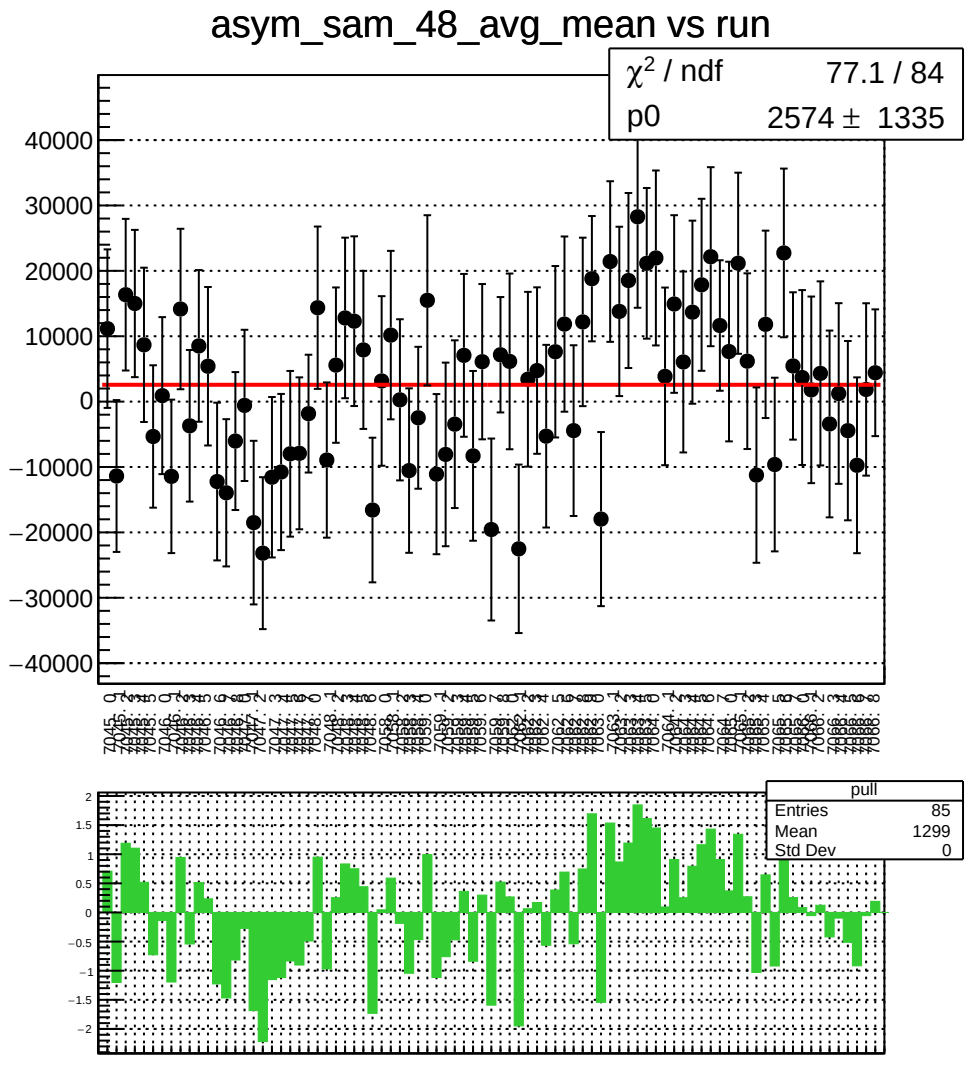

pull1D
Entries 85
Mean 0.02165
Std Dev 0.9614

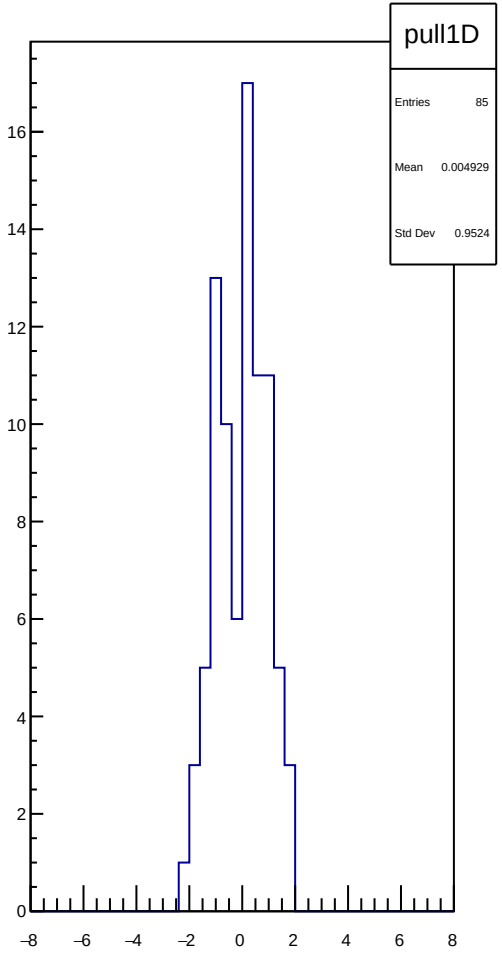

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.499e+04 / 84
p0 166 ± 0.1308
340
320
300
280
260
240
220
200
180
160
140

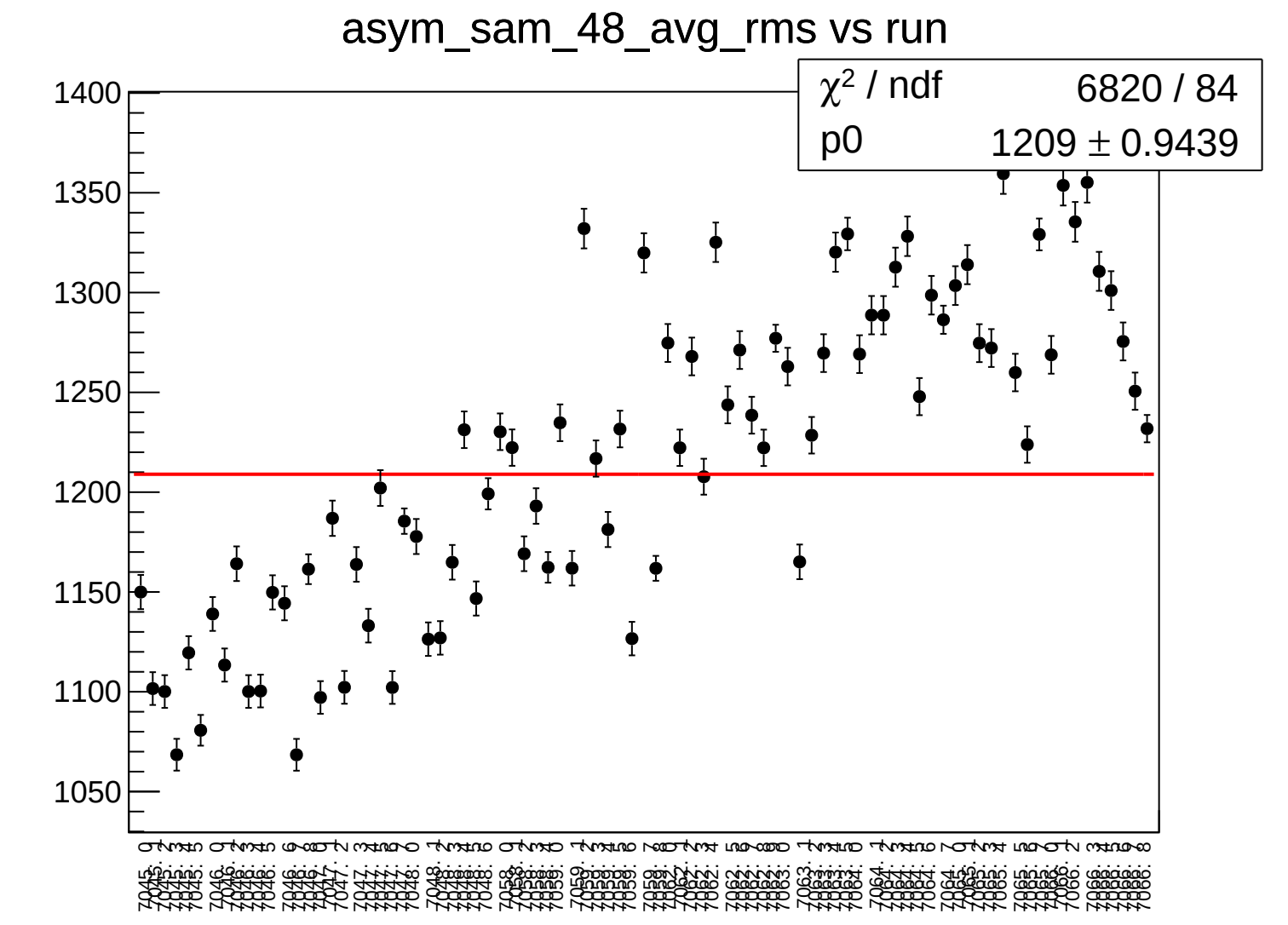

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.8 / 84
p0 −2270 ± 1352
pull
Entries 85
Mean 2279
Std Dev 0

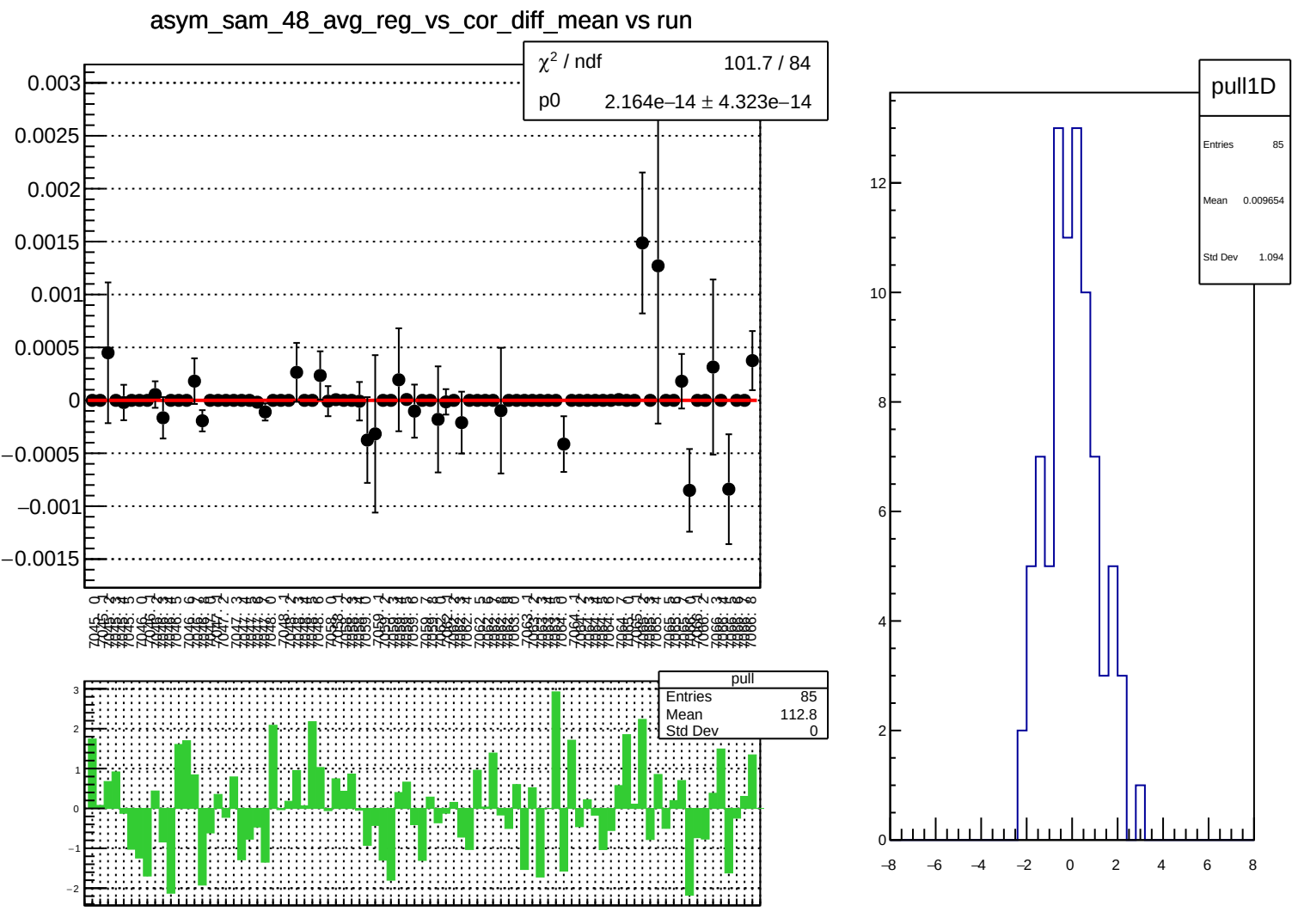

pull1D
Entries 85
Mean −0.002675
Std Dev 0.9689

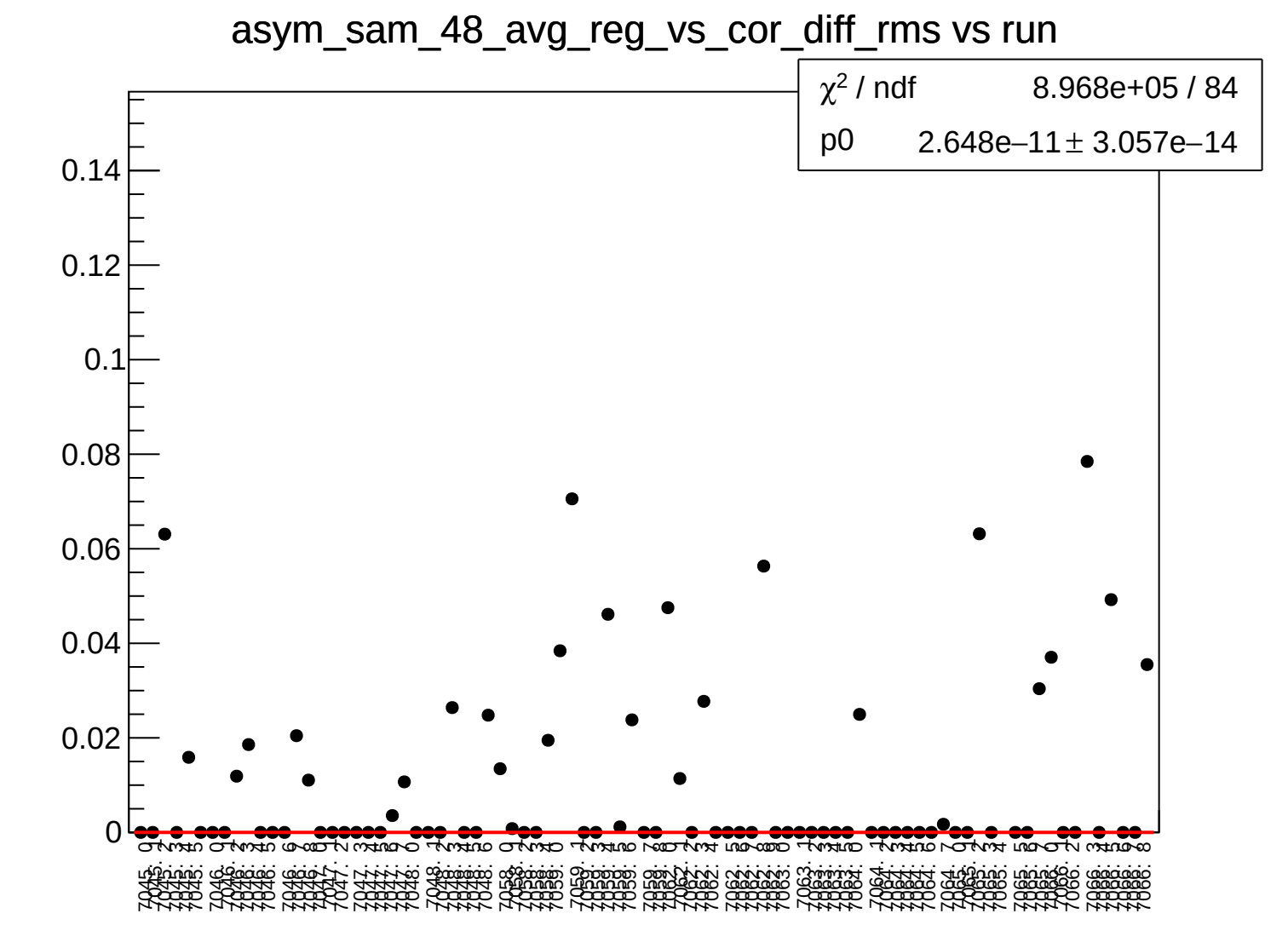

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 5295 / 84
p0 1225 ± 0.9558
1400
1350
1300
1250
1200
1150
1100

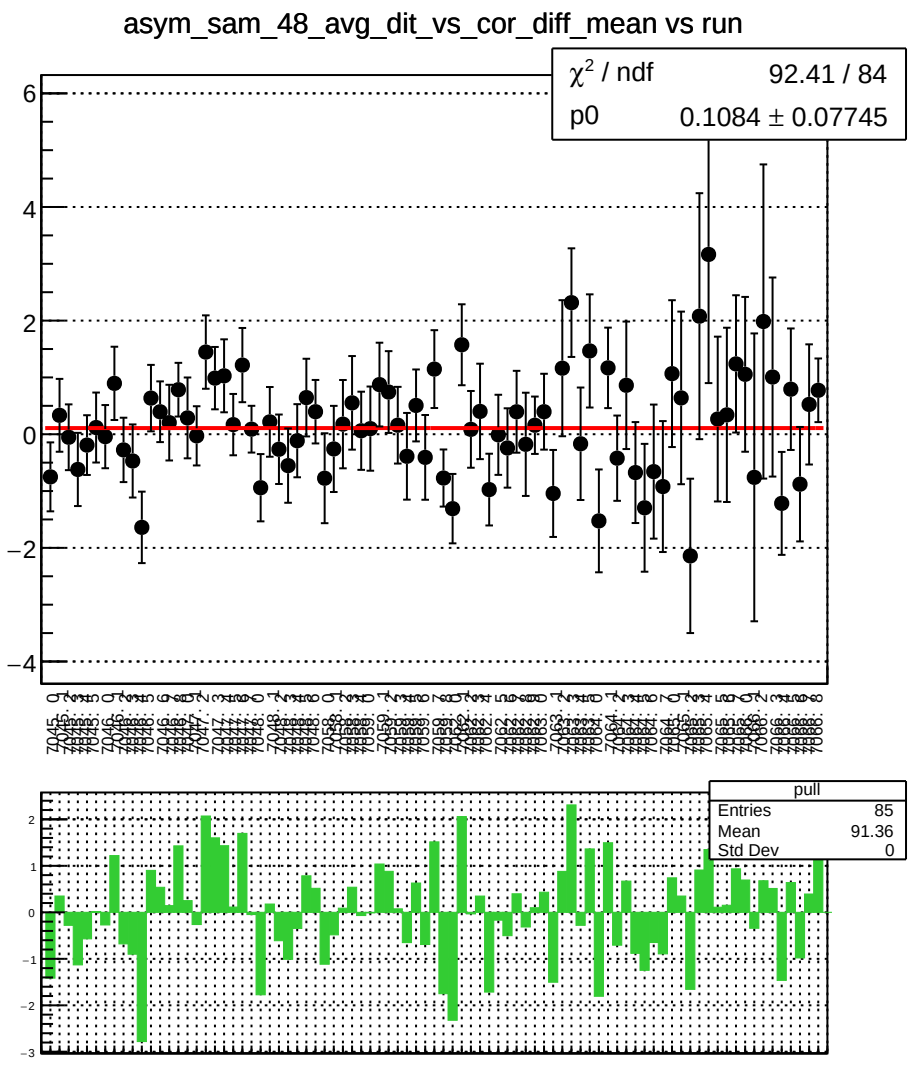

asym_sam_48_avg_mean vs run
χ^2 / ndf 77.1 / 84
p0 2574 ± 1335
pull
Entries 85
Mean 1299
Std Dev 0

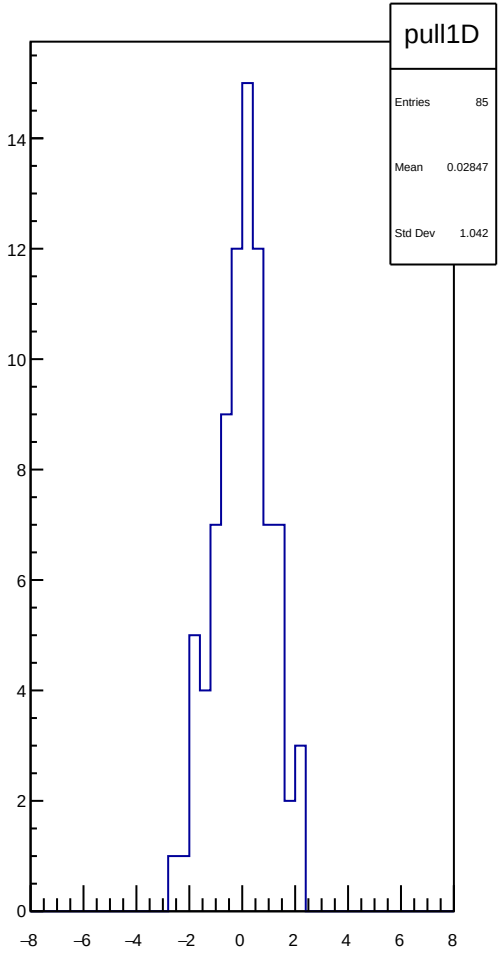

pull1D
Entries 85
Mean 0.004929
Std Dev 0.9524

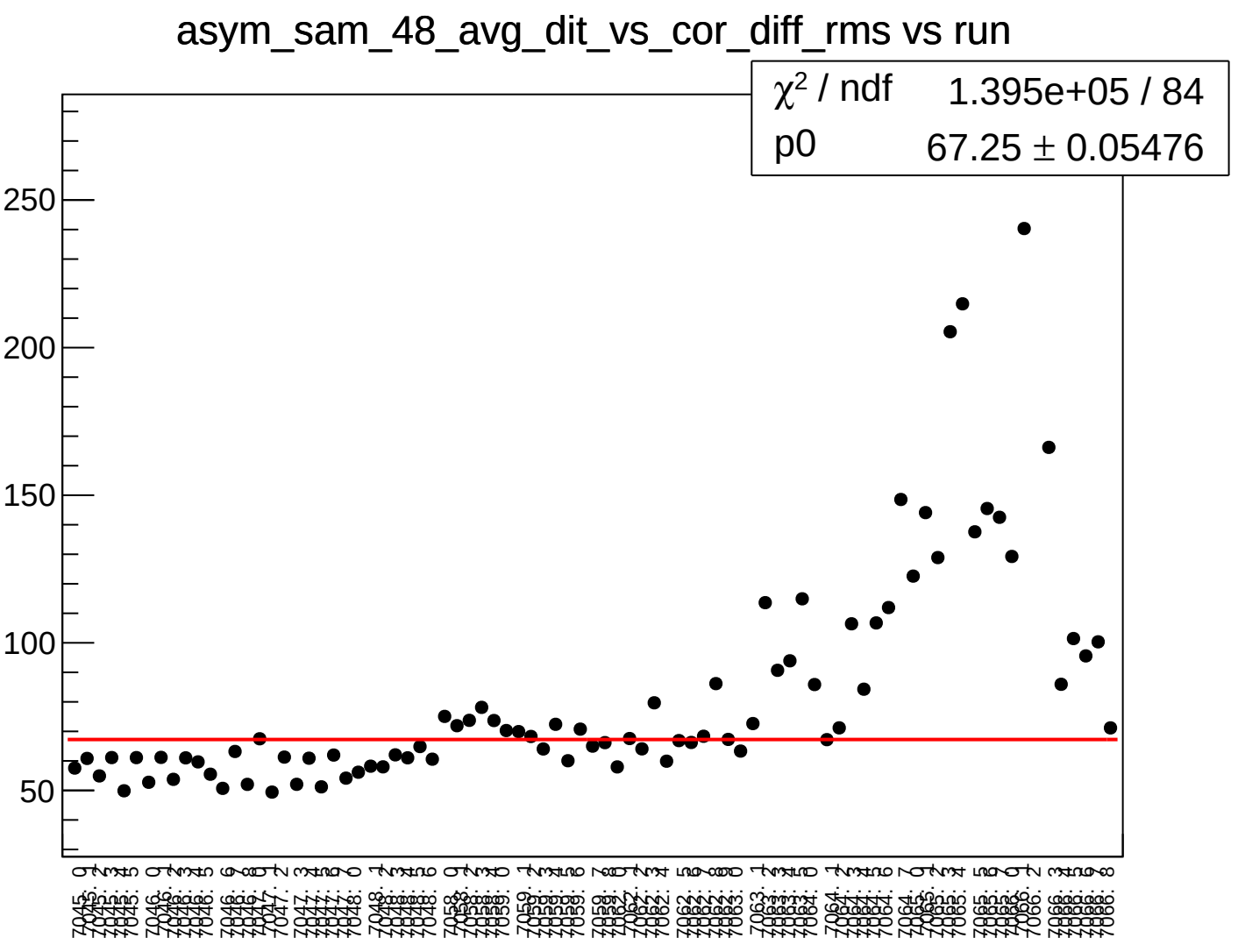

asym_sam_48_avg_rms vs run
χ² / ndf 6820 / 84
p0 1209 ± 0.9439
1400
1350
1300
1250
1200
1150
1100
1050

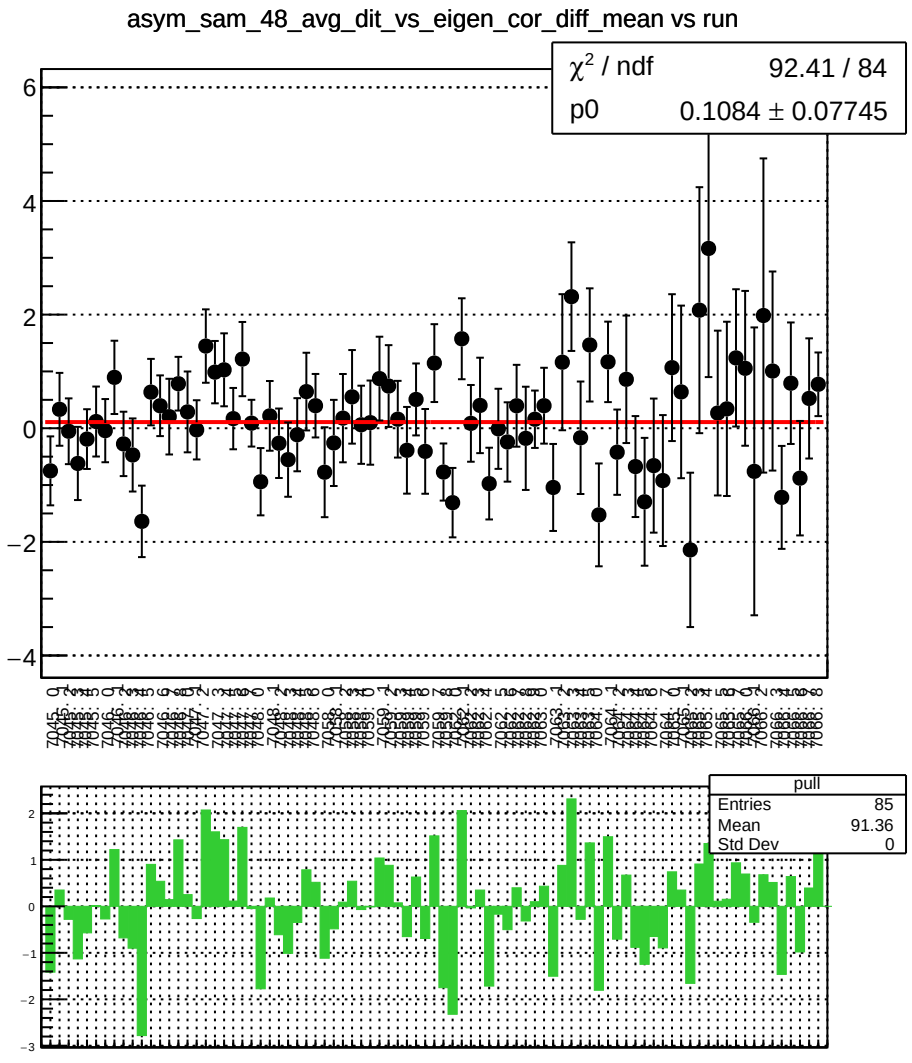

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 84
p0 2.164e−14 ± 4.323e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 112.8
Std Dev 0
pull1D
Entries 85
Mean 0.009654
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

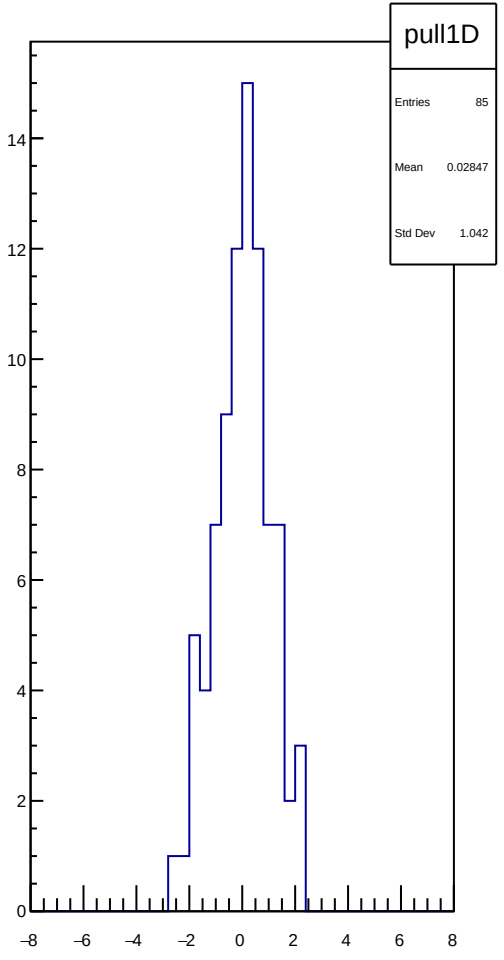

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.968e+05 / 84
p0 2.648e−11 ± 3.057e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

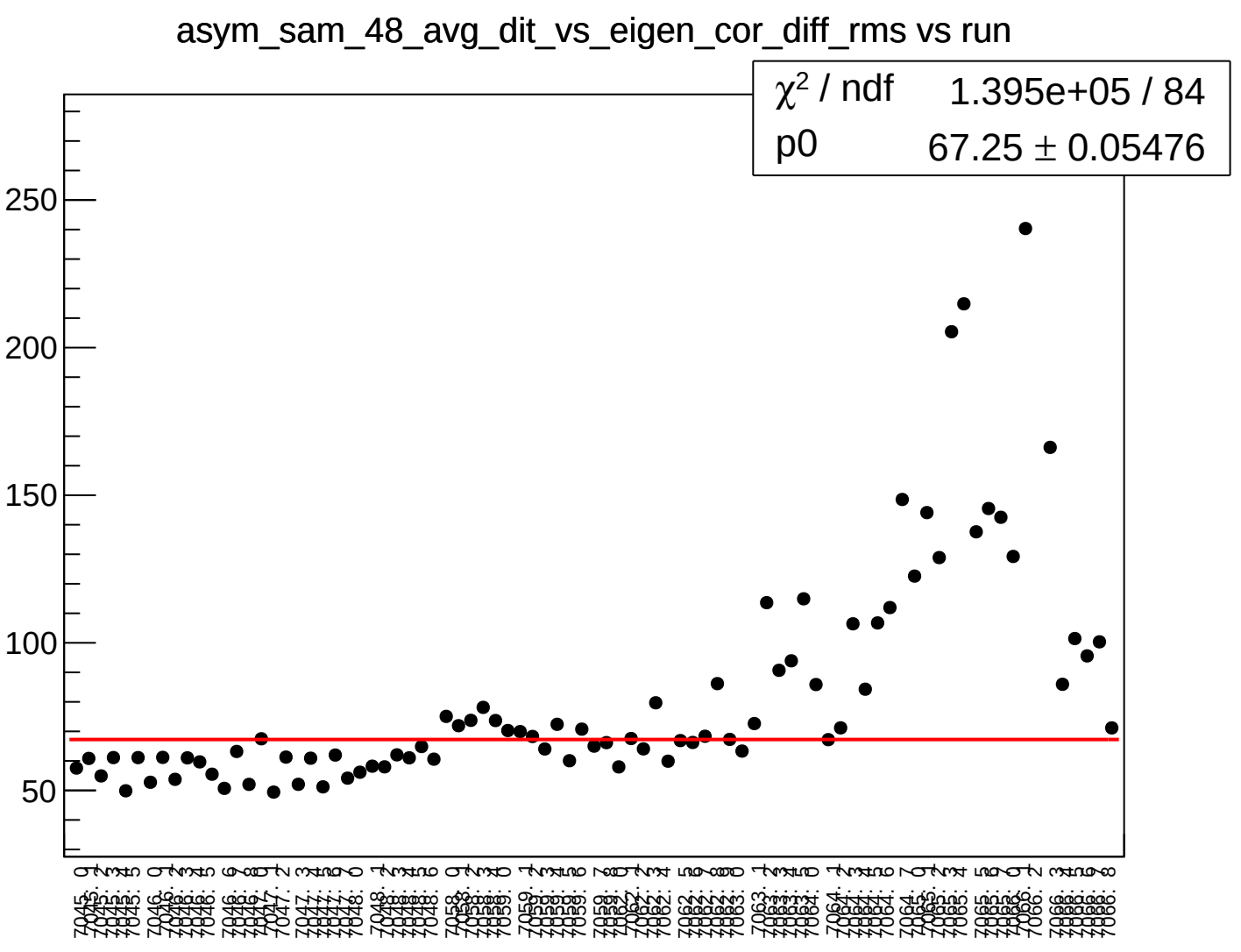

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.41 / 84
p0 0.1084 ± 0.07745
pull
Entries 85
Mean 91.36
Std Dev 0

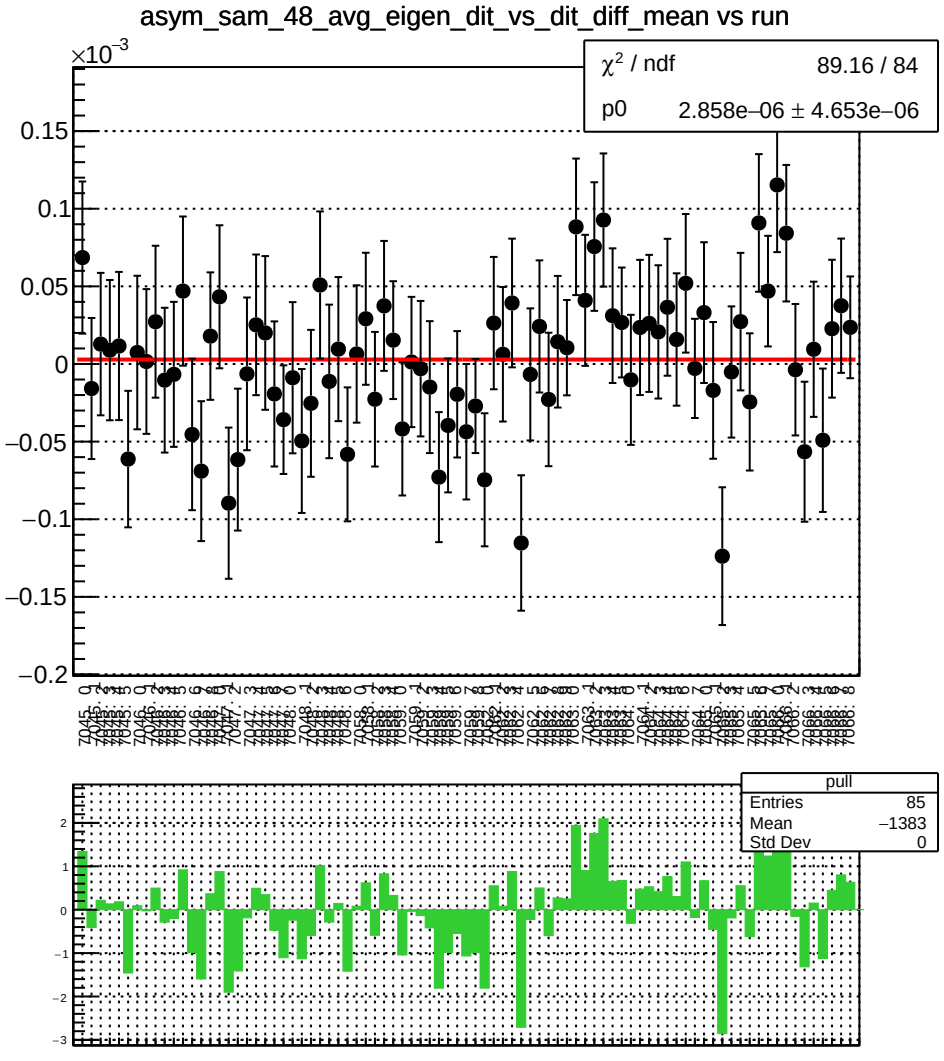

pull1D
Entries 85
Mean 0.02847
Std Dev 1.042

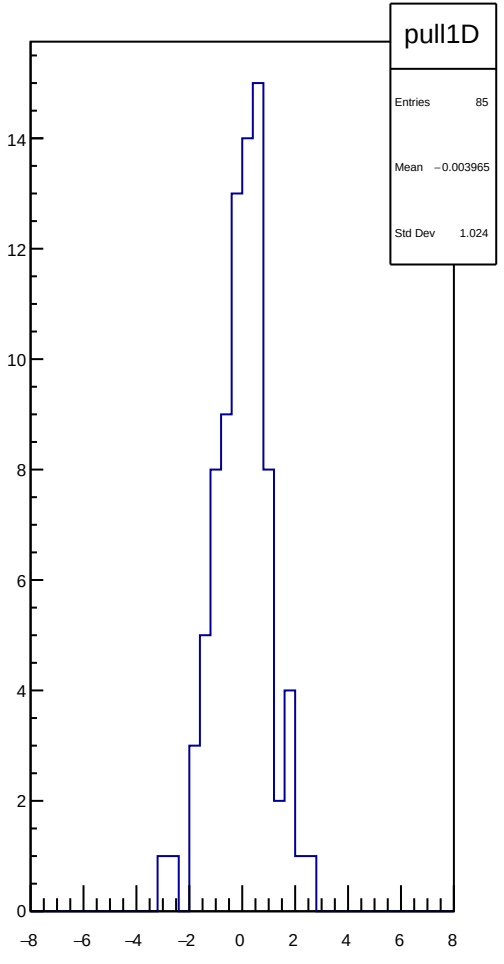

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 84
p0 67.25 ± 0.05476
250
200
150
100
50

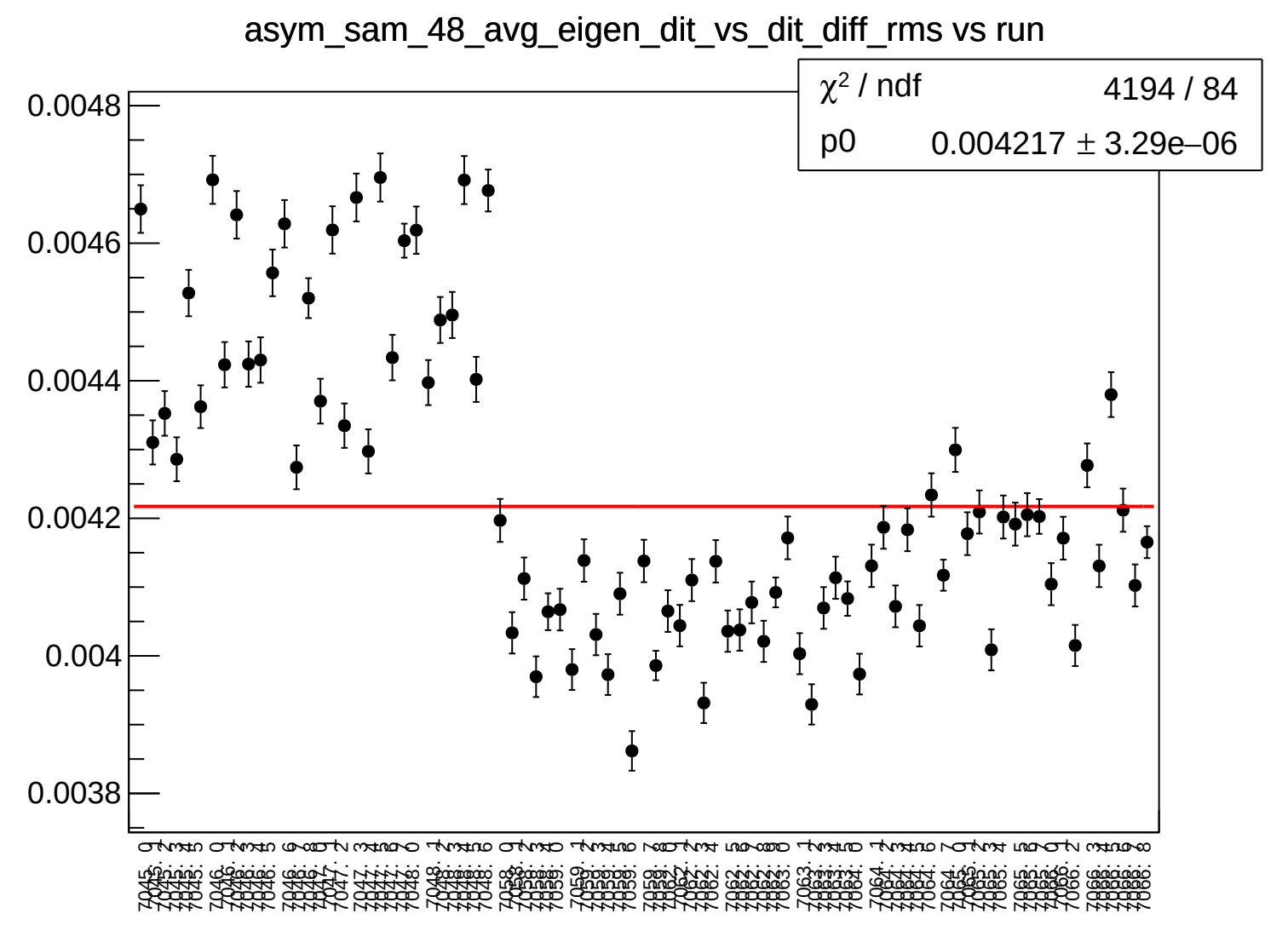

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.41 / 84
p0 0.1084 ± 0.07745
pull
Entries 85
Mean 91.36
Std Dev 0

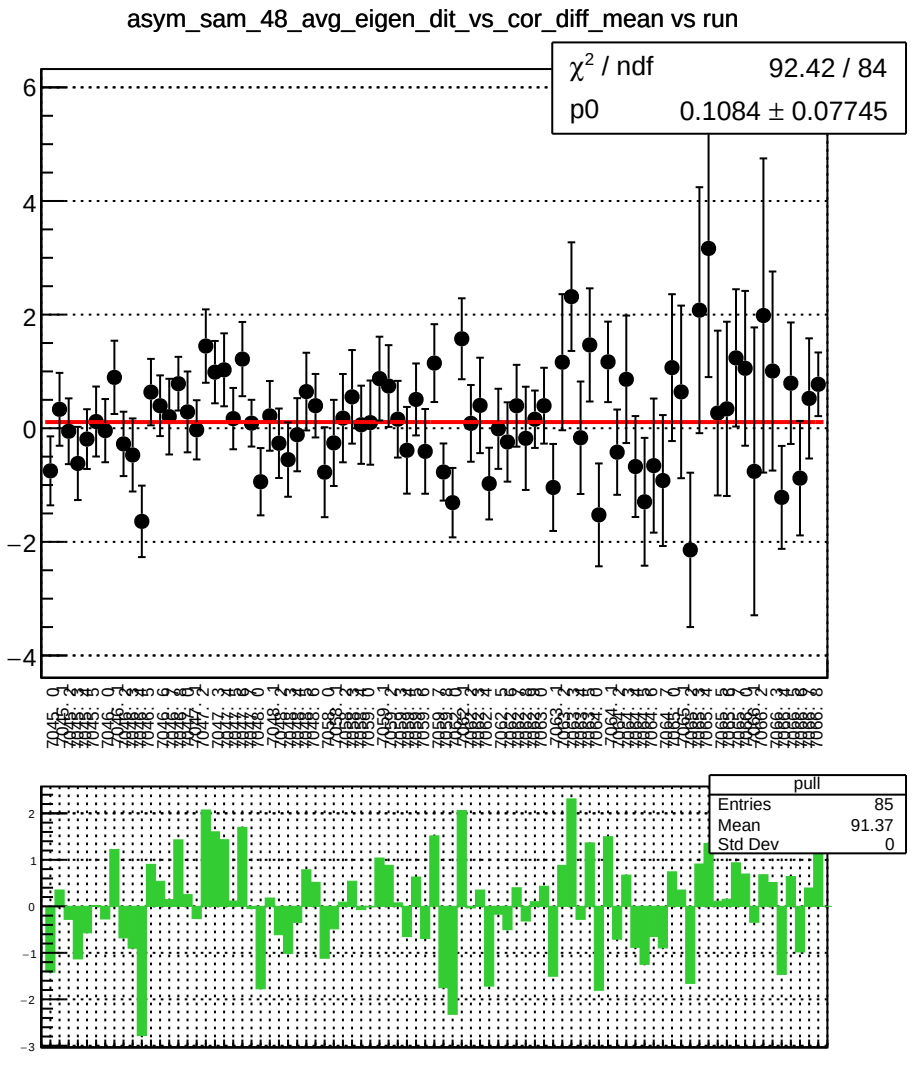

pull1D
Entries 85
Mean 0.02847
Std Dev 1.042

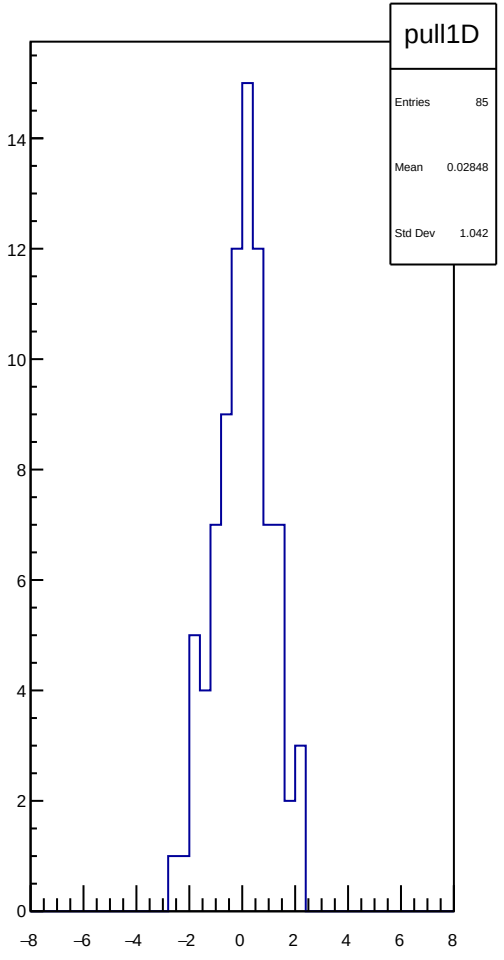

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 84
p0 67.25 ± 0.05476
250
200
150
100
50

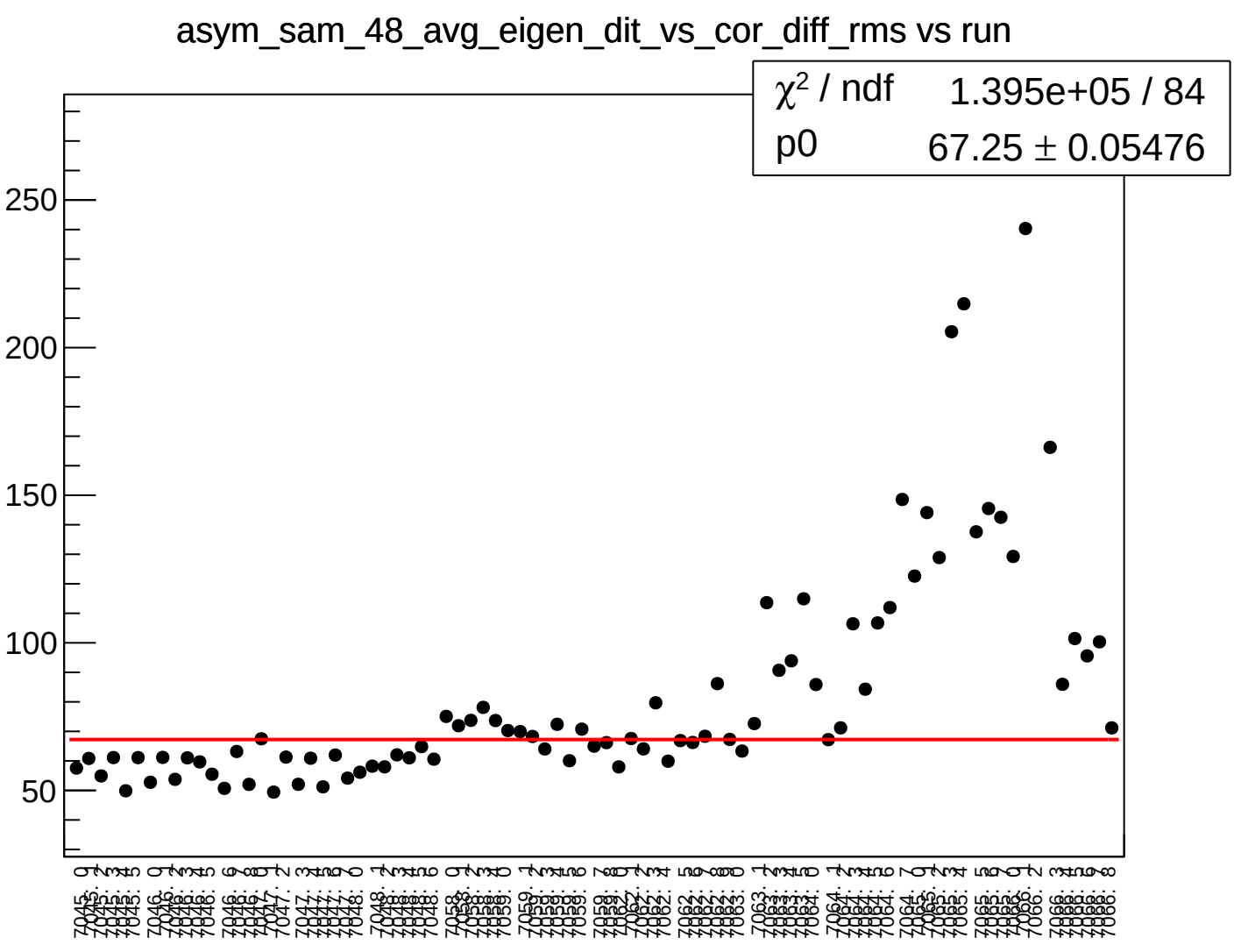

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.16 / 84
p0 2.858e−06 ± 4.653e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 85
Mean −1383
Std Dev 0
2
1
0
−1
−2
−3

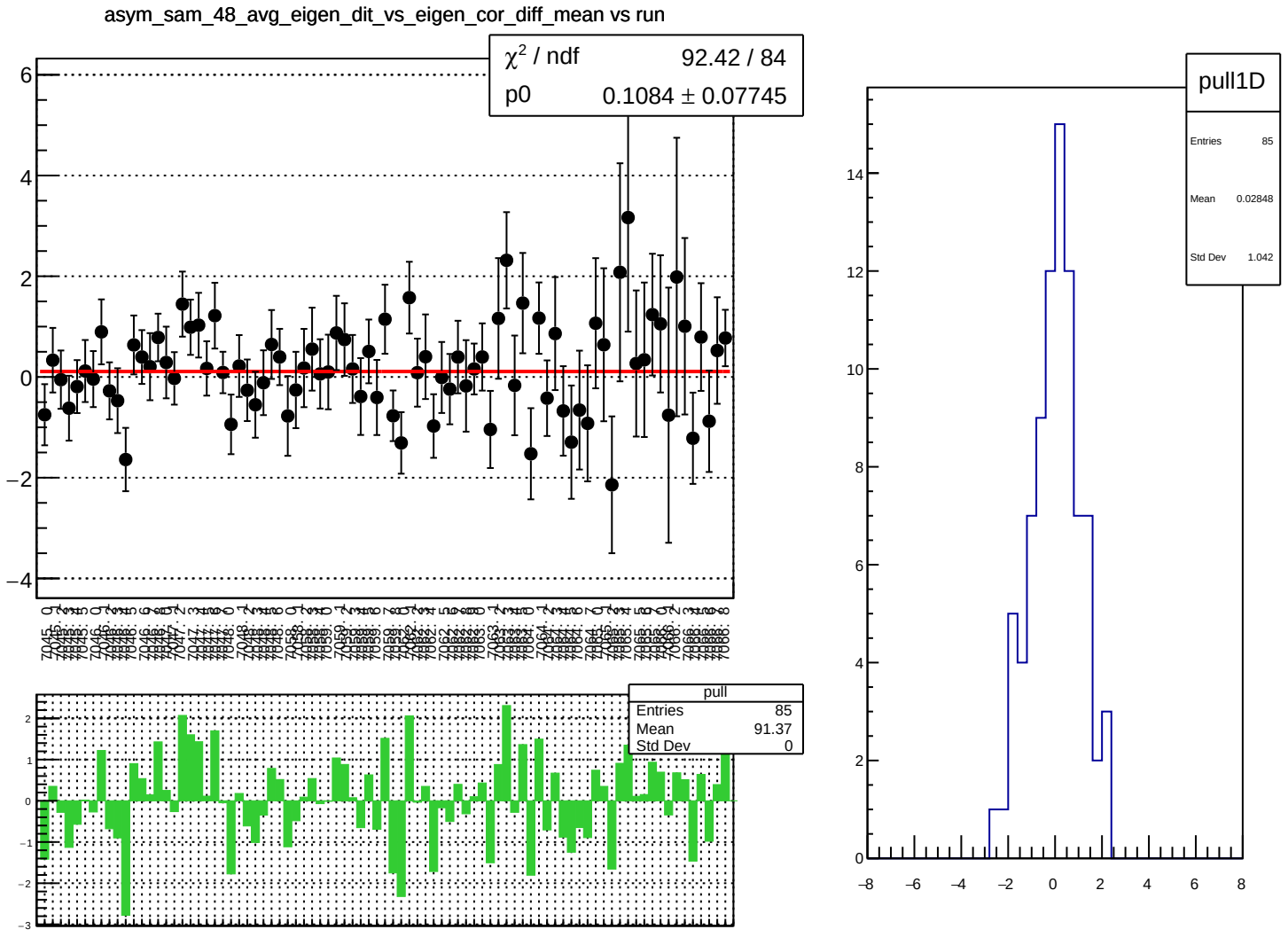

pull1D
Entries 85
Mean −0.003965
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

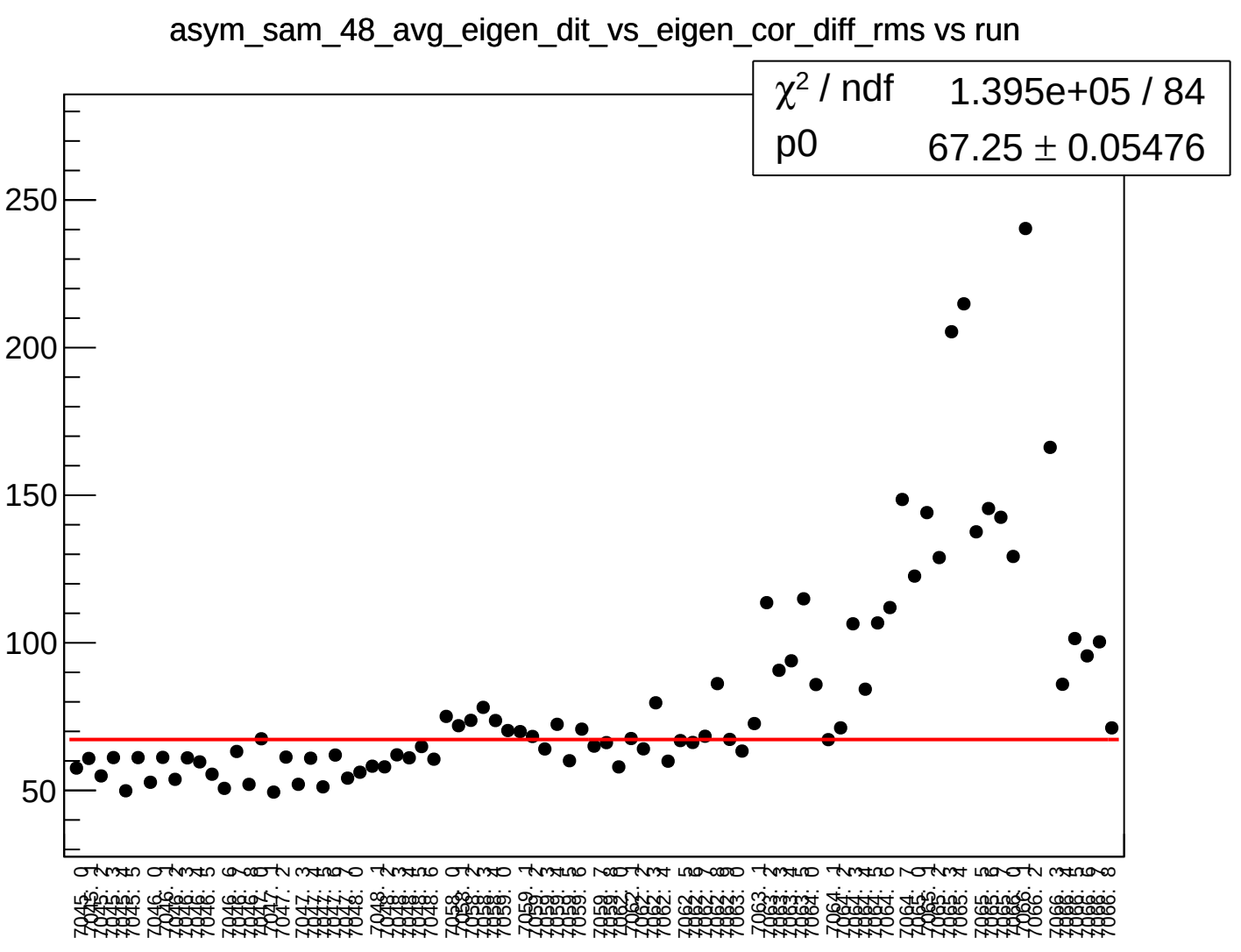

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4194 / 84
p0 0.004217 ± 3.29e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

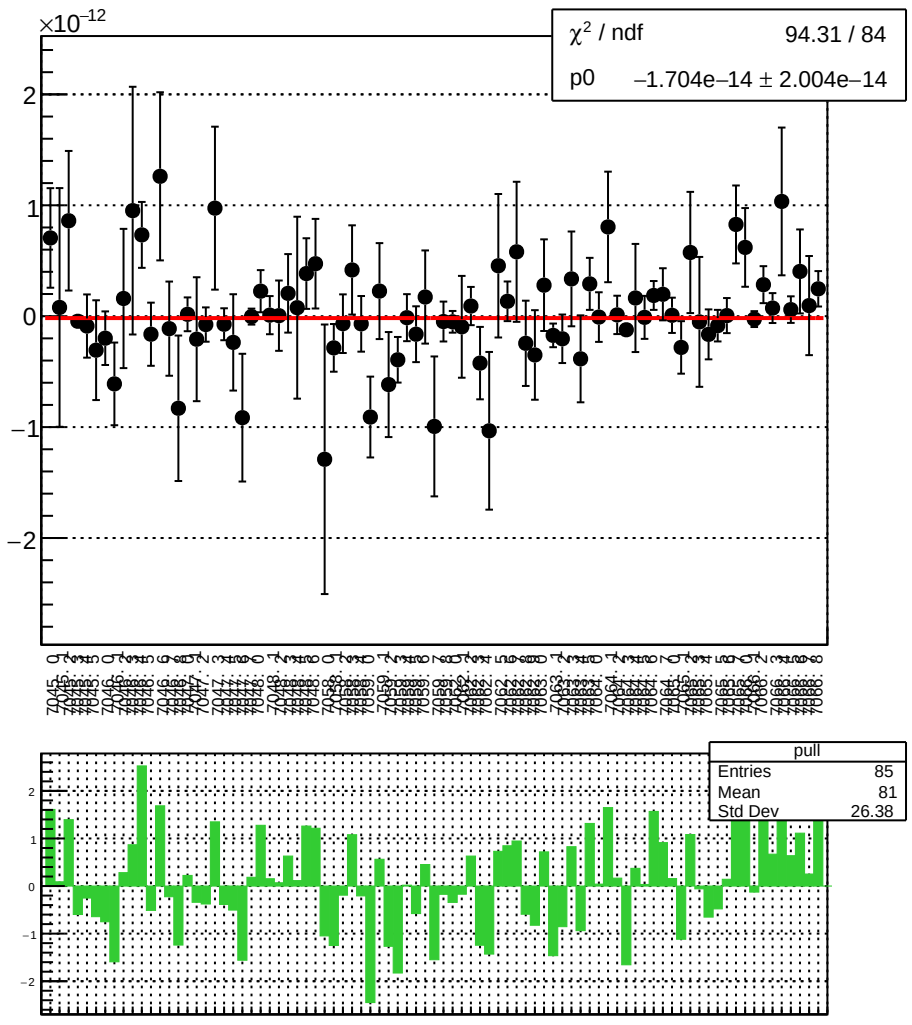

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.42 / 84
p0 0.1084 ± 0.07745
pull
Entries 85
Mean 91.37
Std Dev 0

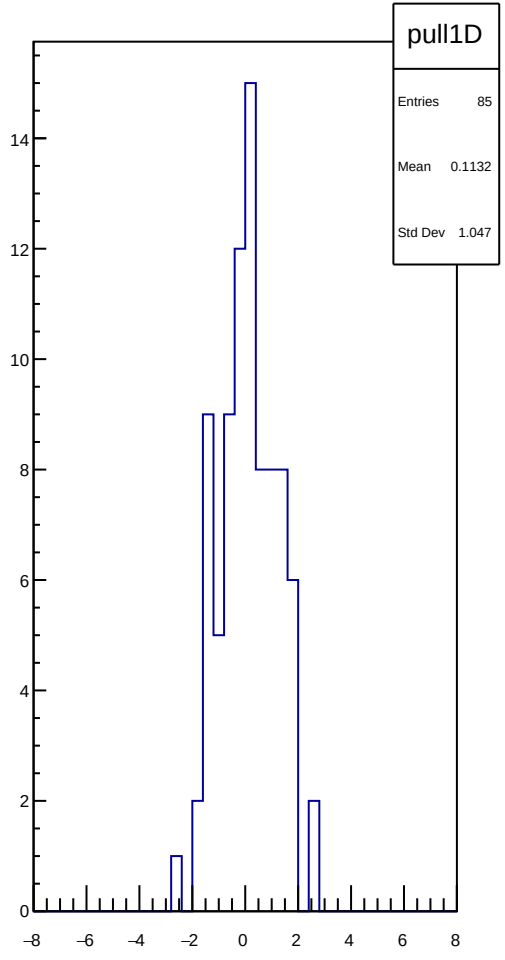

pull1D
Entries 85
Mean 0.02848
Std Dev 1.042

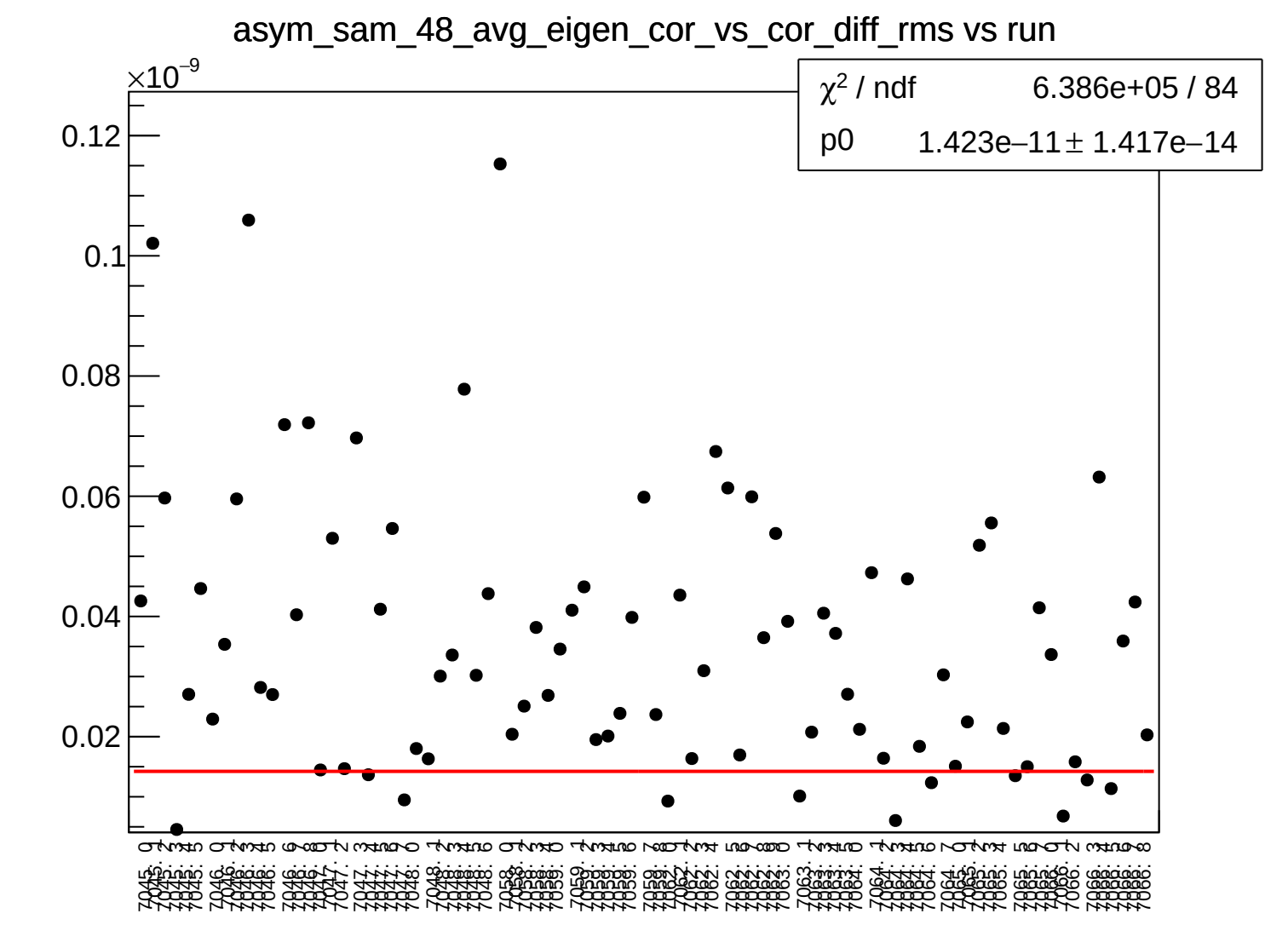

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 84
p0 67.25 ± 0.05476
250
200
150
100
50

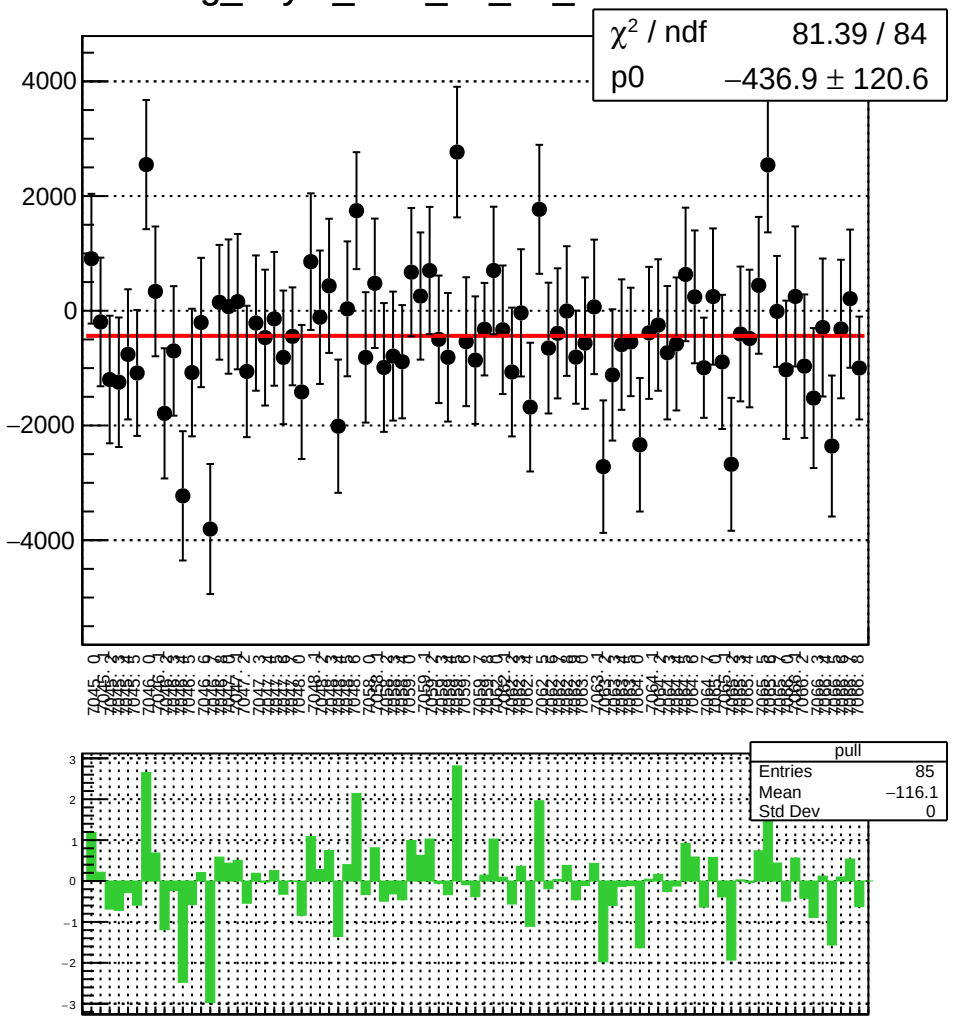

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.42 / 84
p0 0.1084 ± 0.07745
pull
Entries 85
Mean 91.37
Std Dev 0
pull1D
Entries 85
Mean 0.02848
Std Dev 1.042

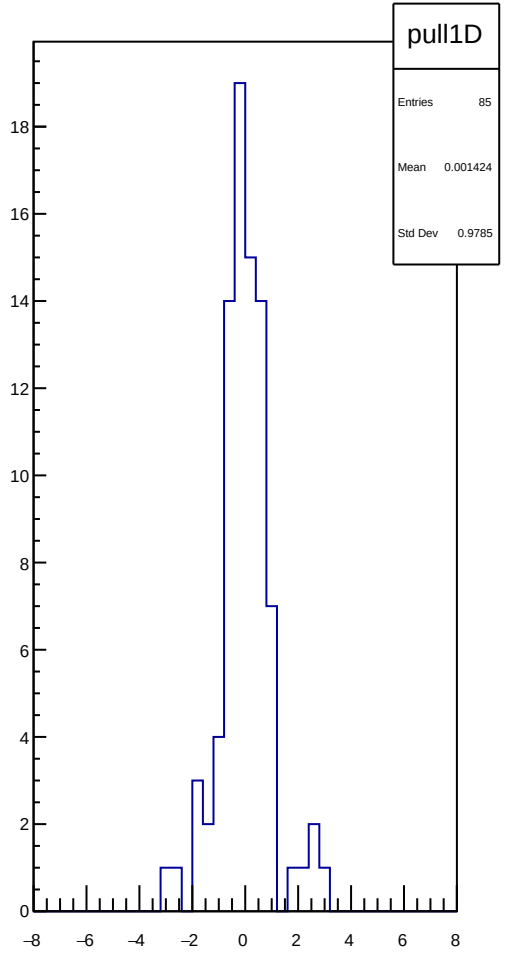

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 84
p0 67.25 ± 0.05476
250
200
150
100
50

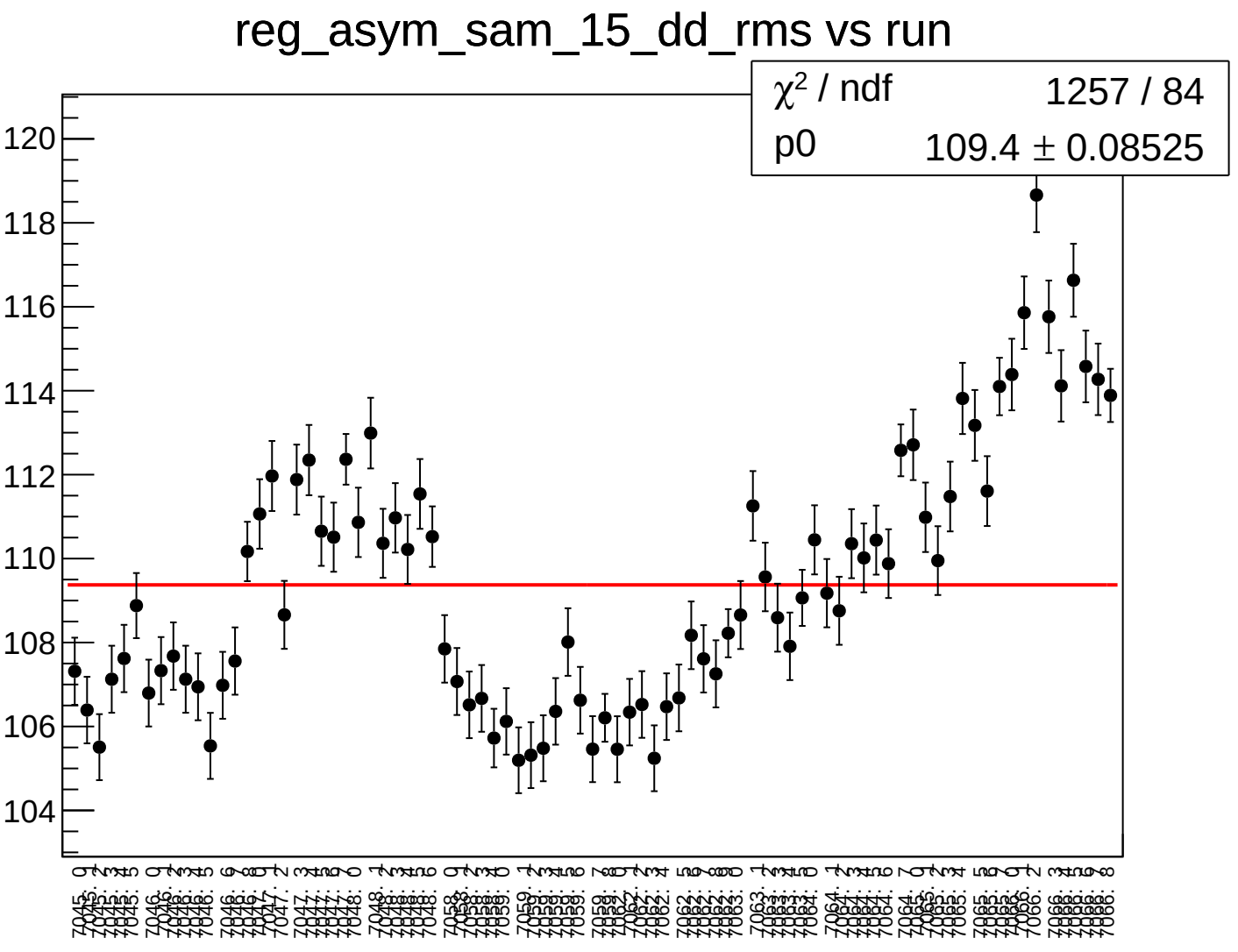

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.31 / 84
p0 −1.704e−14 ± 2.004e−14
pull
Entries 85
Mean 81
Std Dev 26.38

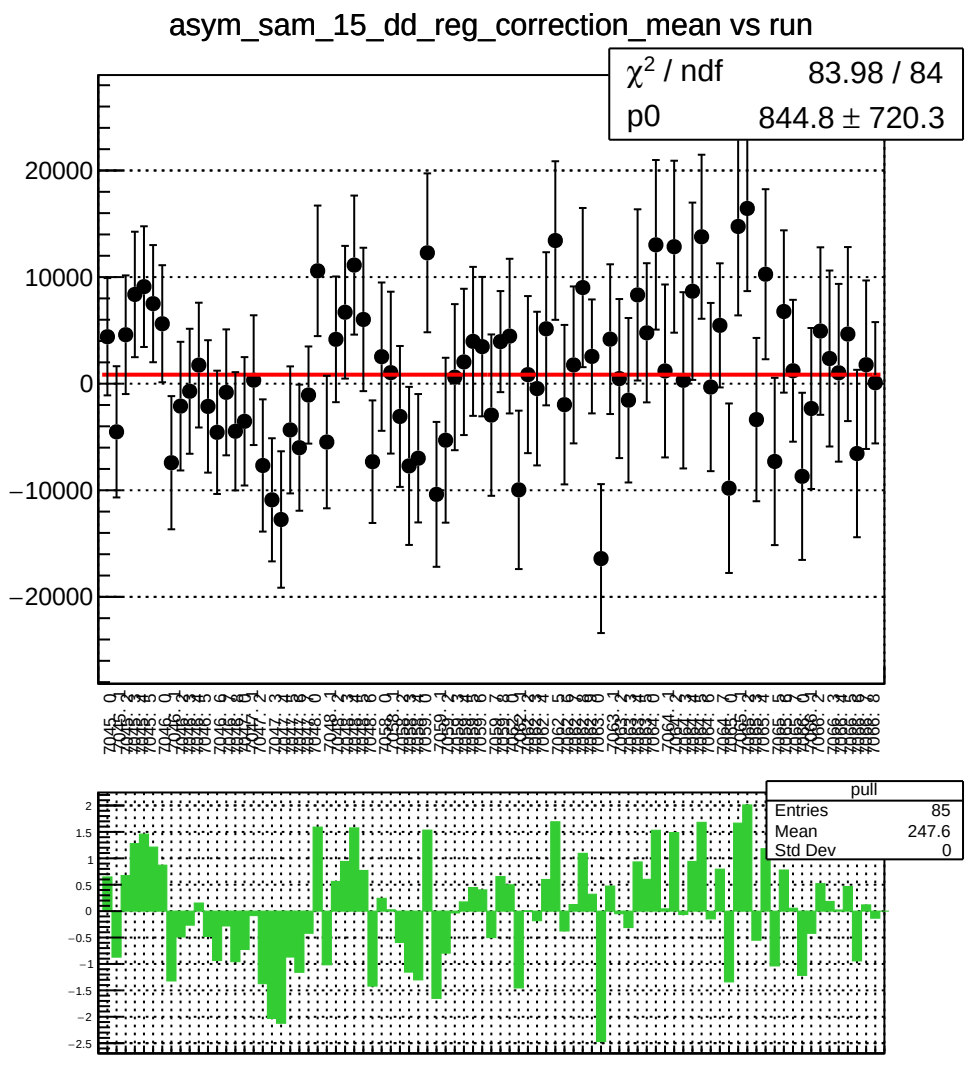

pull1D
Entries 85
Mean 0.1132
Std Dev 1.047

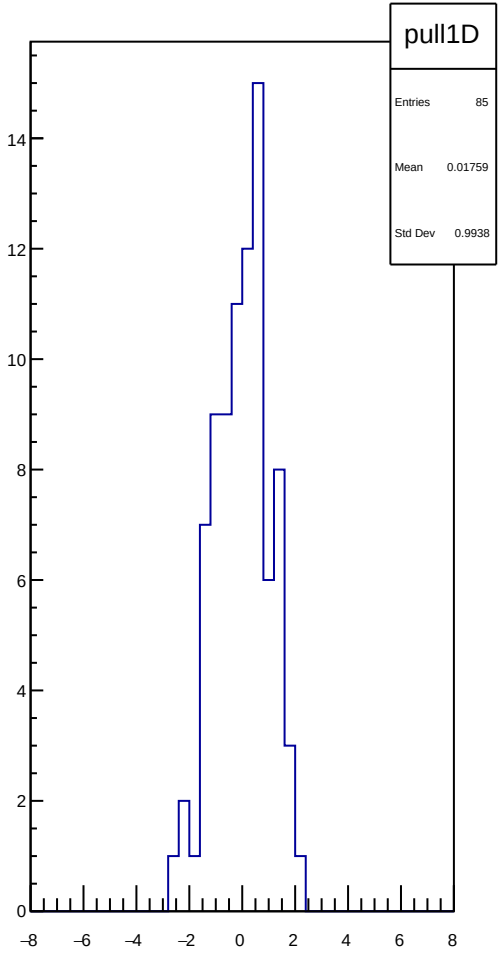

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.386e+05 / 84
p0 1.423e−11 ± 1.417e−14
0.12
0.1
0.08
0.06
0.04
0.02

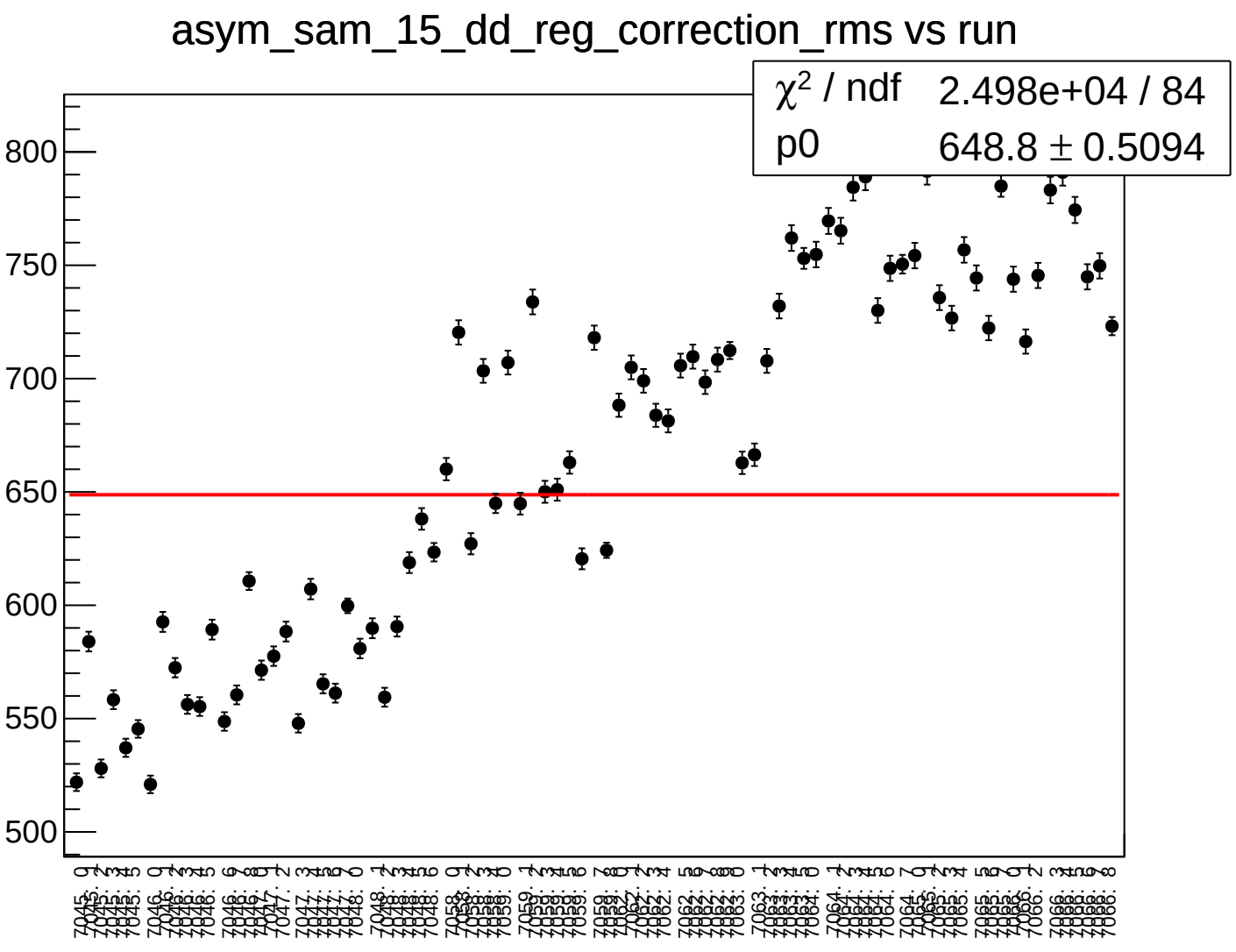

reg_asym_sam_15_dd_mean vs run
χ² / ndf 81.39 / 84
p0 −436.9 ± 120.6
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −116.1
Std Dev 0
3
2
1
0
−1
−2
−3

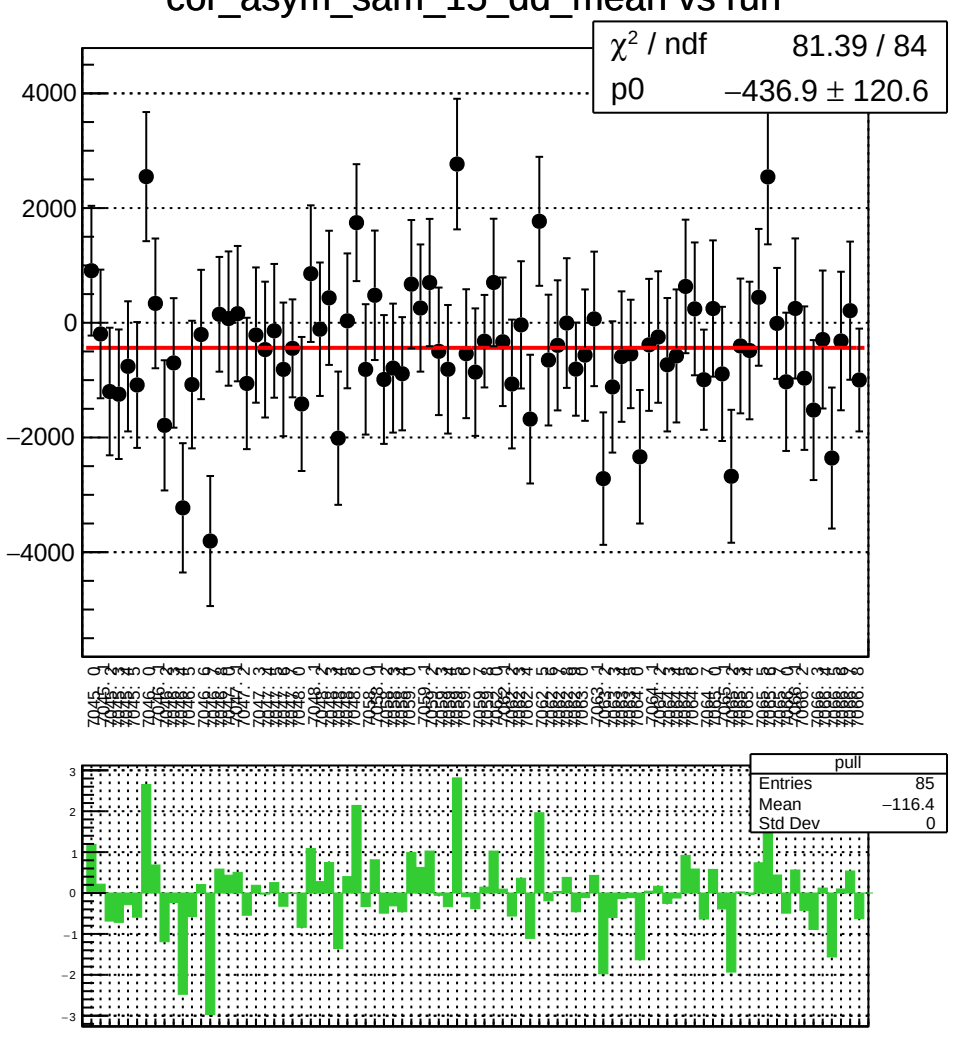

pull1D
Entries 85
Mean 0.001424
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

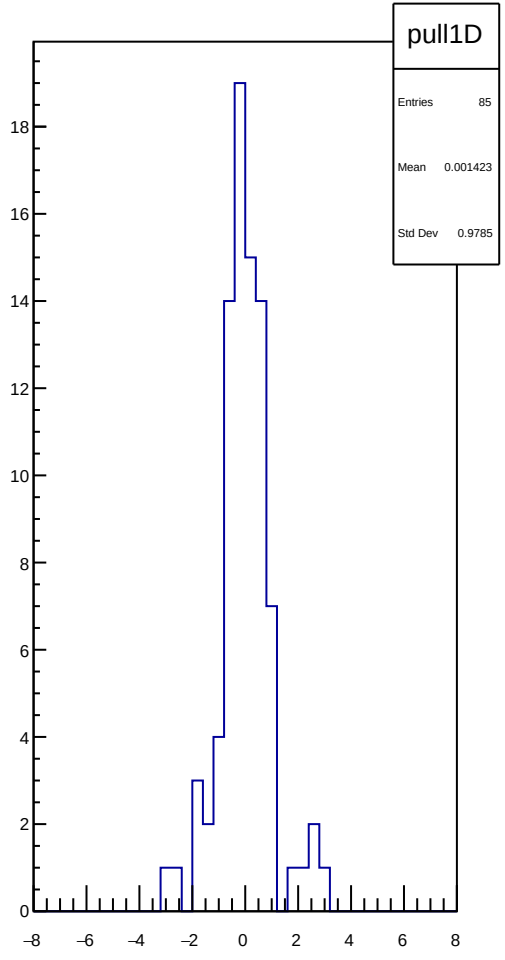

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1257 / 84
p0 109.4 ± 0.08525
120
118
116
114
112
110
108
106
104

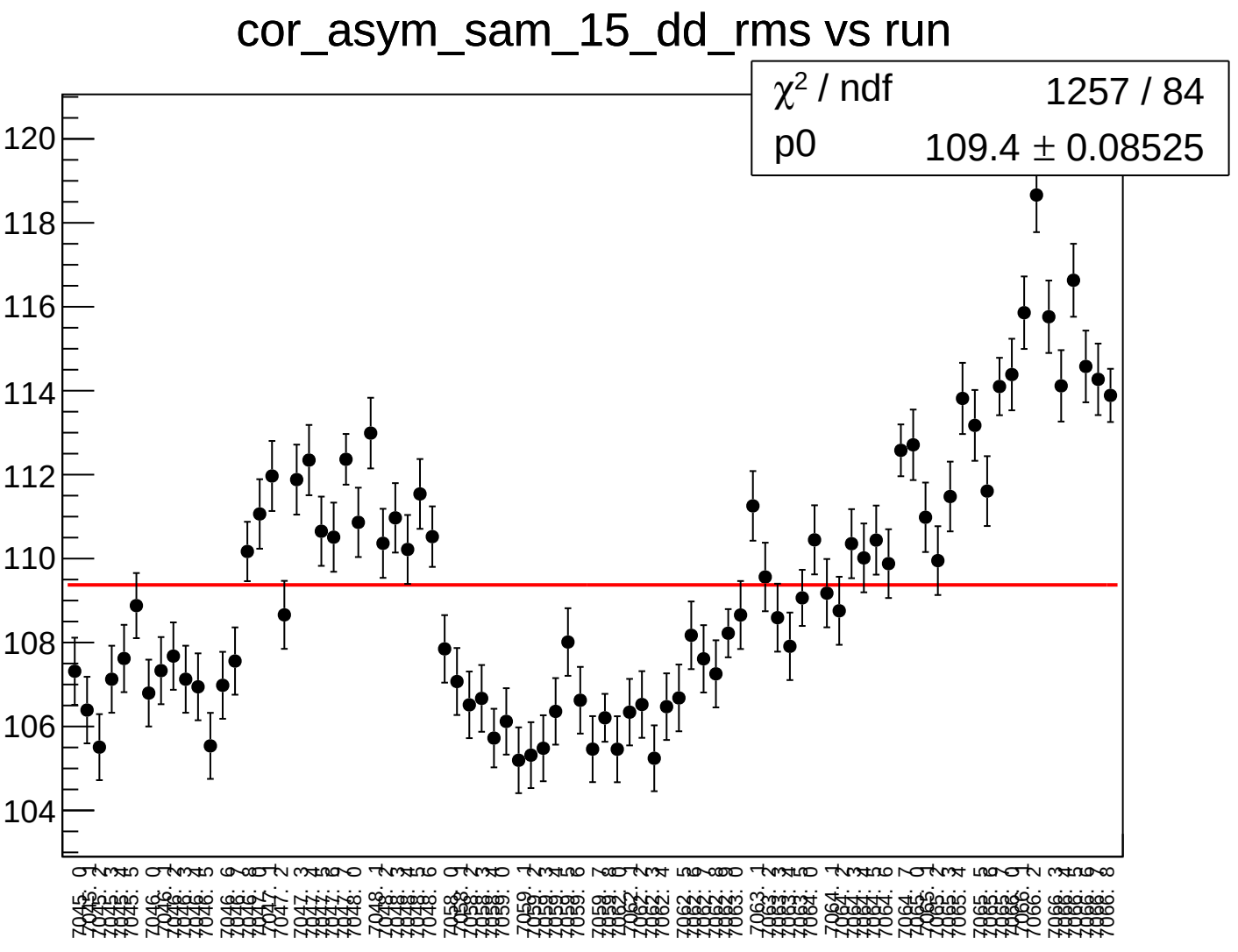

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 83.98 / 84
p0 844.8 ± 720.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 247.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

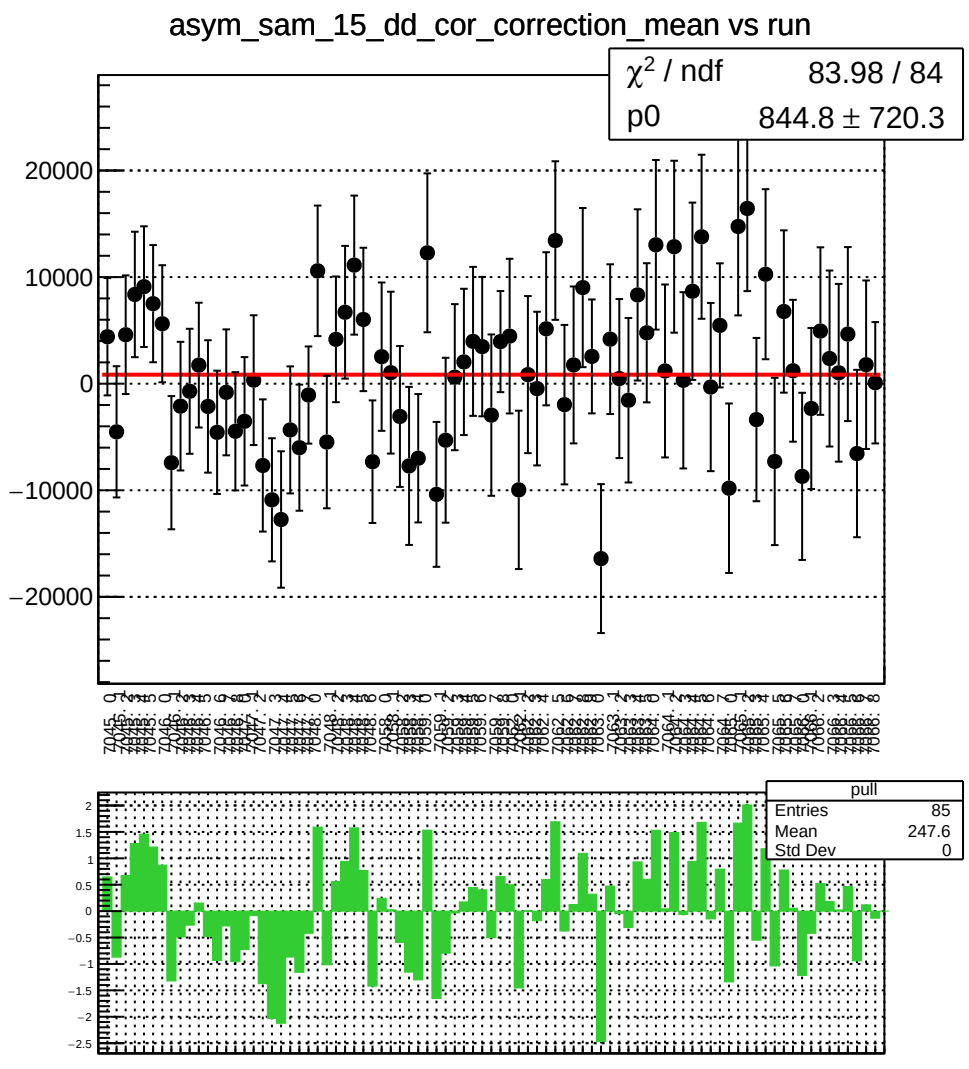

pull1D
Entries 85
Mean 0.01759
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

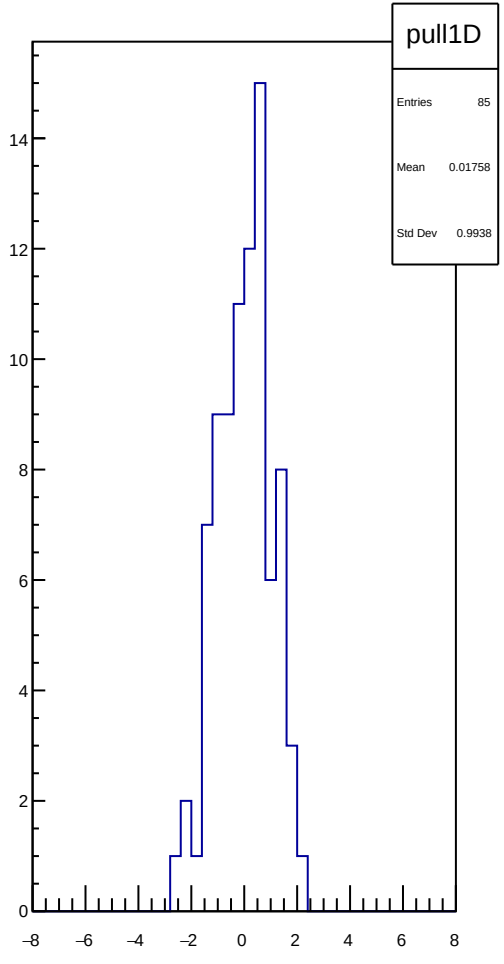

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.498e+04 / 84
p0 648.8 ± 0.5094
800
750
700
650
600
550
500

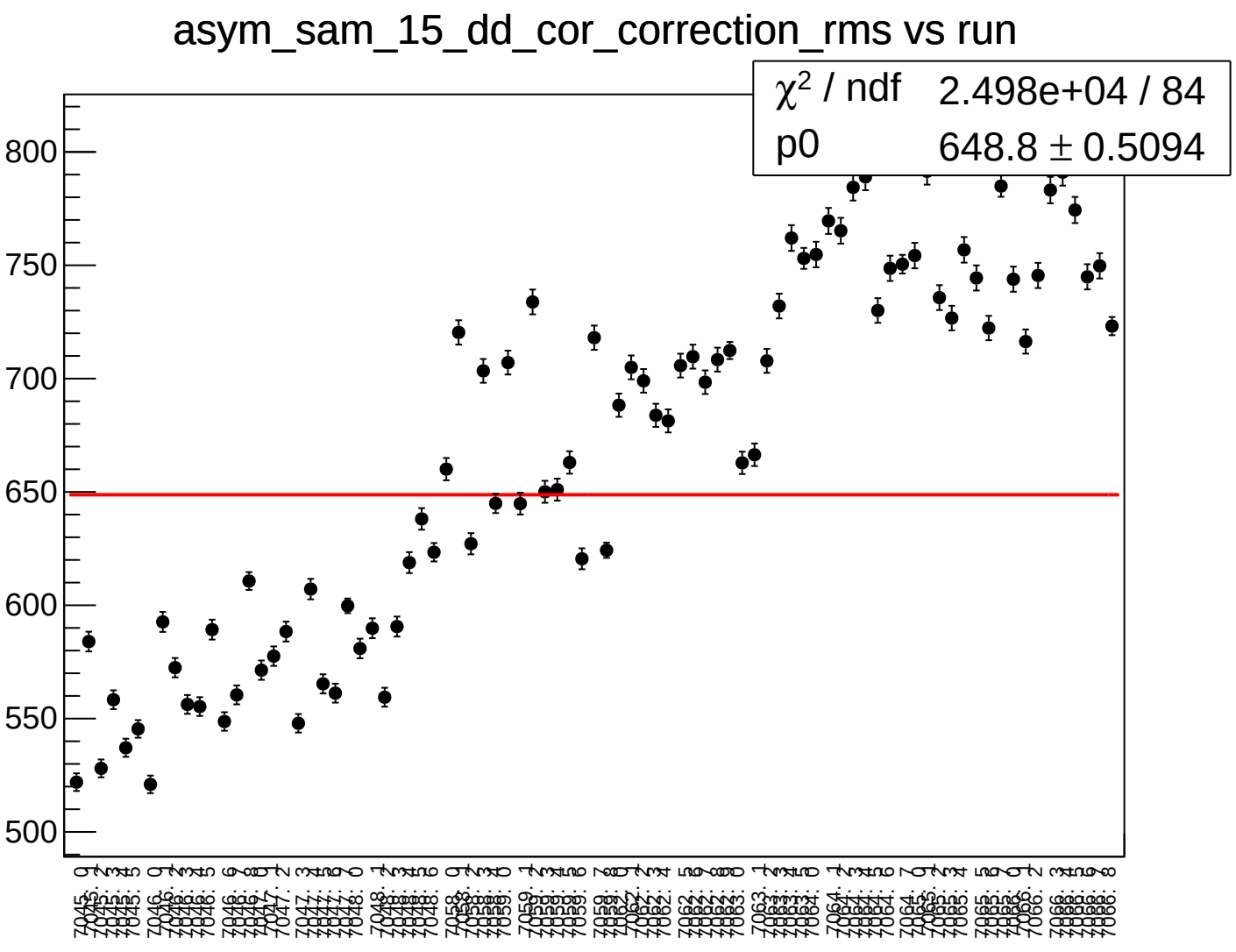

cor_asym_sam_15_dd_mean vs run
χ² / ndf 81.39 / 84
p0 −436.9 ± 120.6
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −116.4
Std Dev 0
3
2
1
0
−1
−2
−3

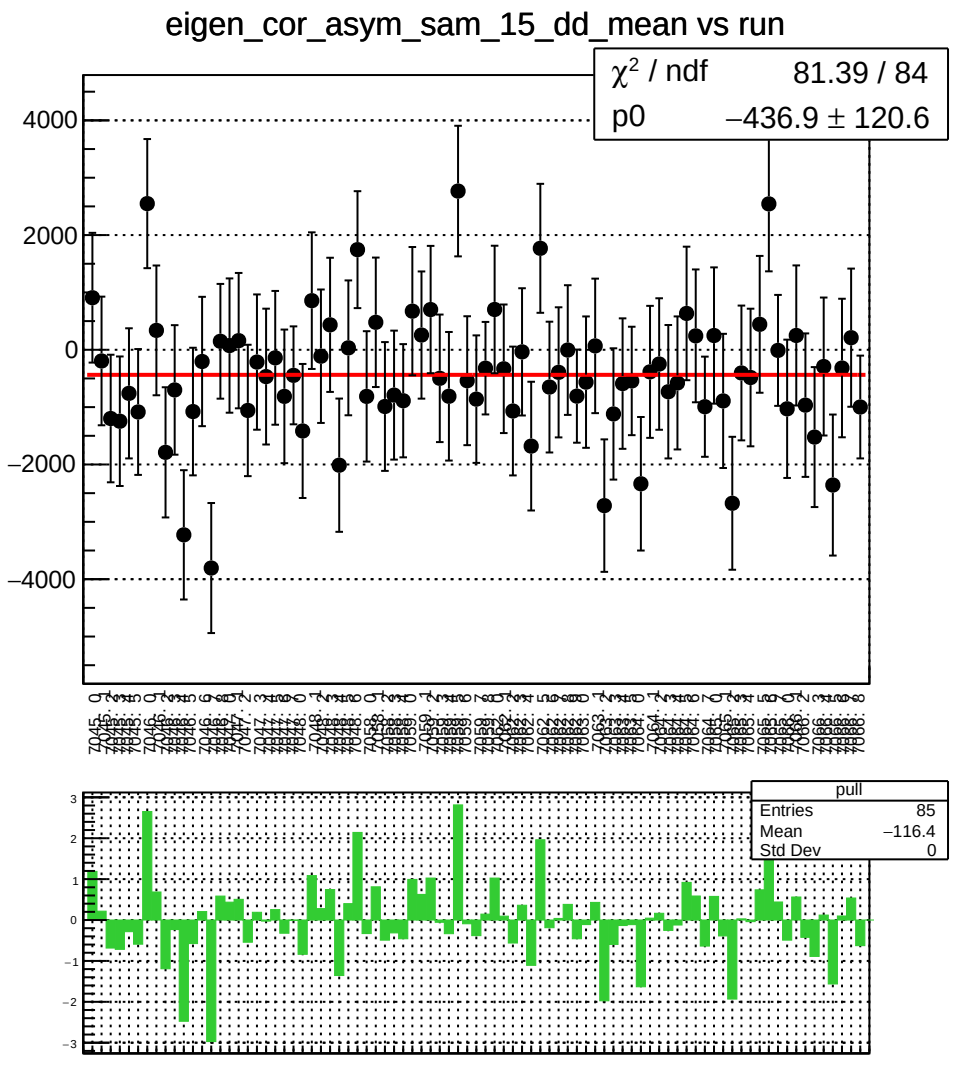

pull1D
Entries 85
Mean 0.001423
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

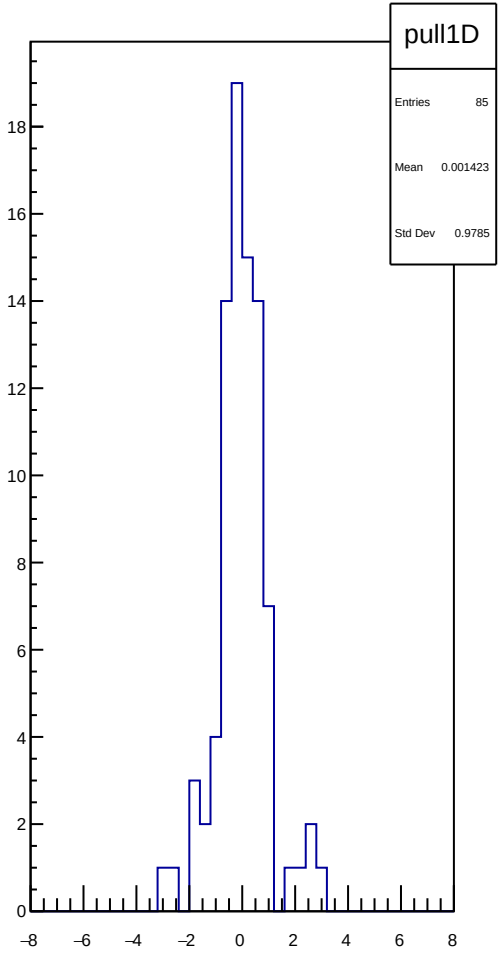

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 1257 / 84
p0 109.4 ± 0.08525
120
118
116
114
112
110
108
106
104

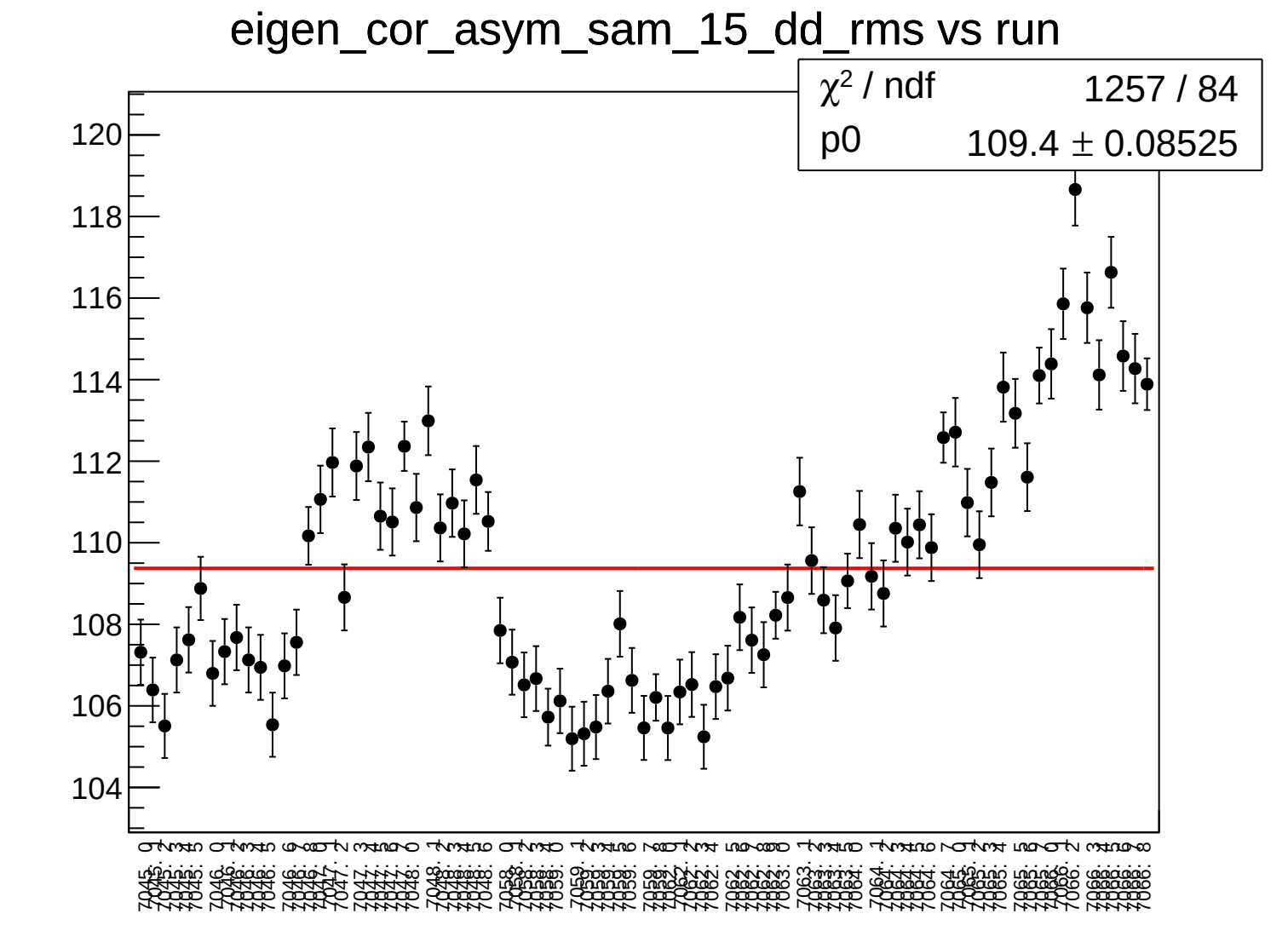

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 83.98 / 84
p0 844.8 ± 720.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 247.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

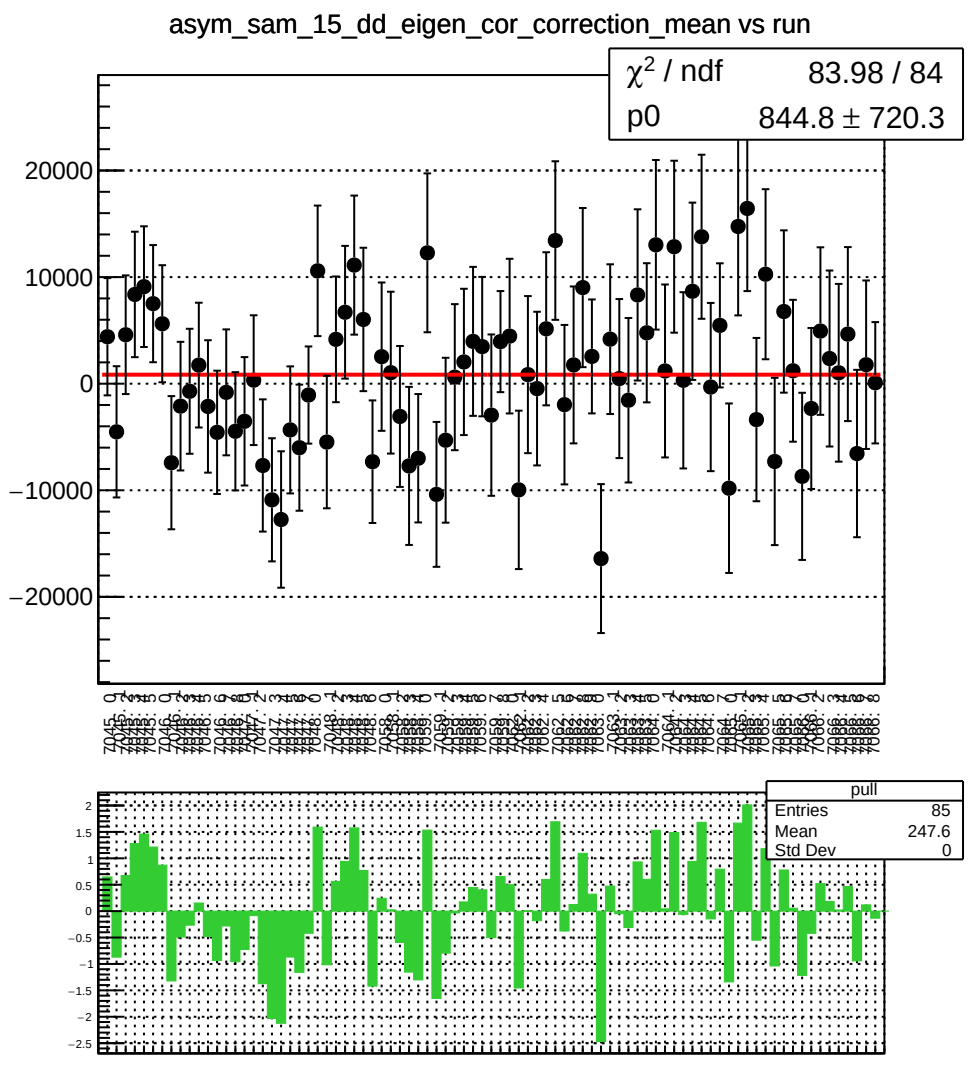

pull1D
Entries 85
Mean 0.01758
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

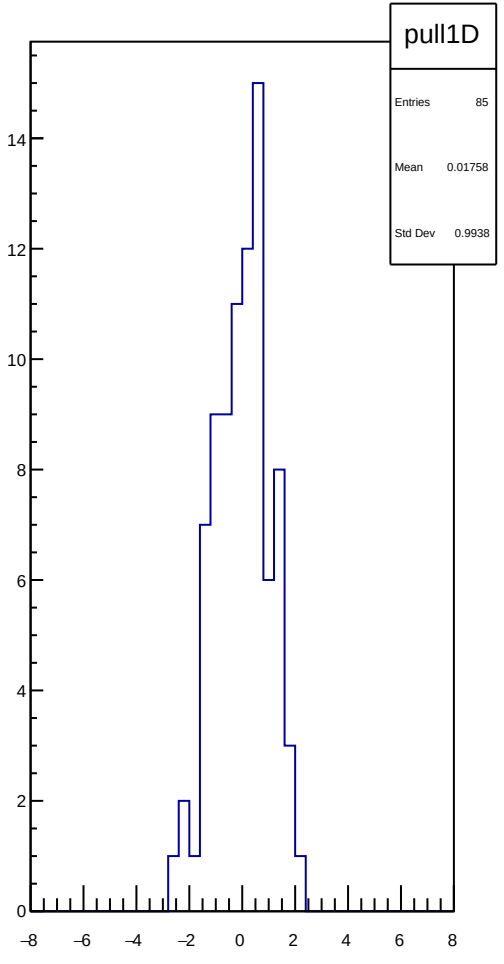

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.498e+04 / 84
p0 648.8 ± 0.5094
800
750
700
650
600
550
500

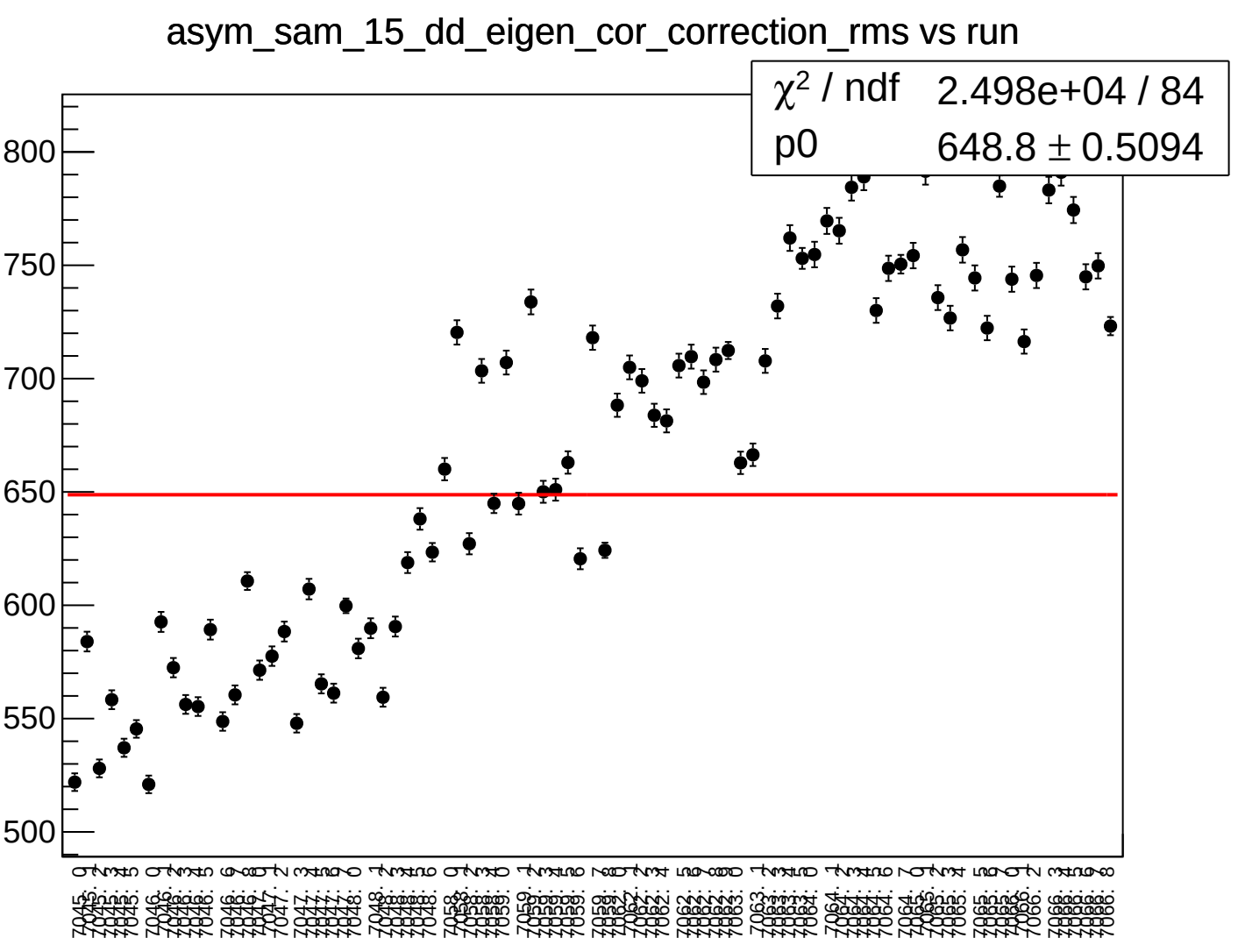

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 81.39 / 84
p0 −436.9 ± 120.6
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −116.4
Std Dev 0
3
2
1
0
−1
−2
−3

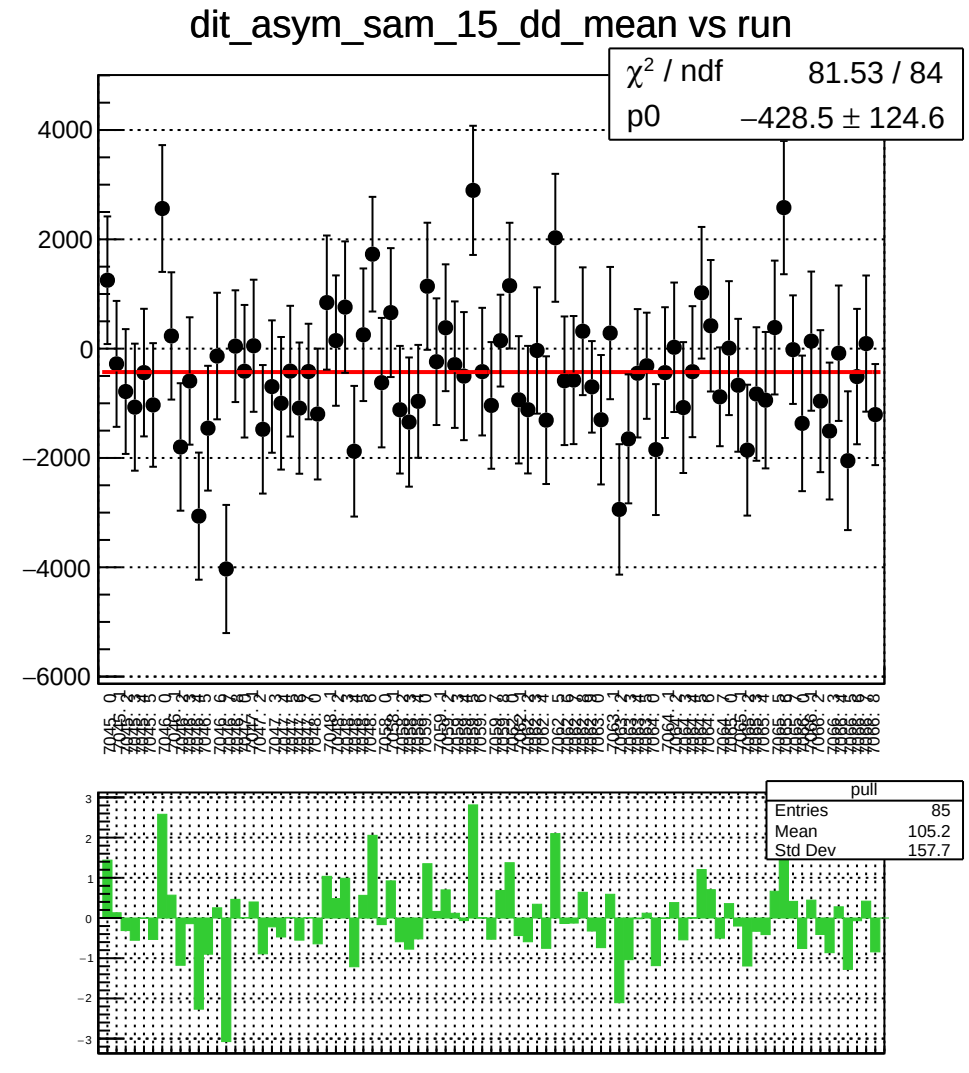

pull1D
Entries 85
Mean 0.001423
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

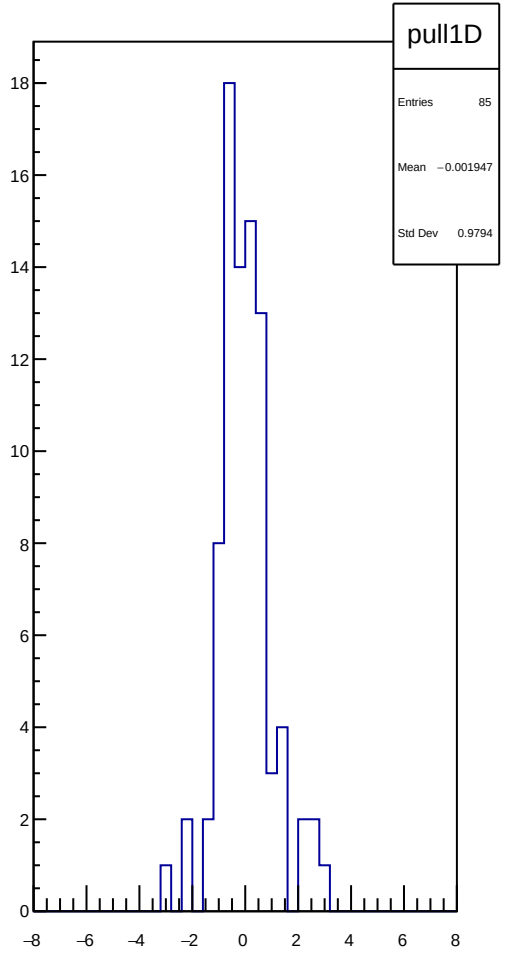

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1257 / 84
p0 109.4 ± 0.08525
120
118
116
114
112
110
108
106
104

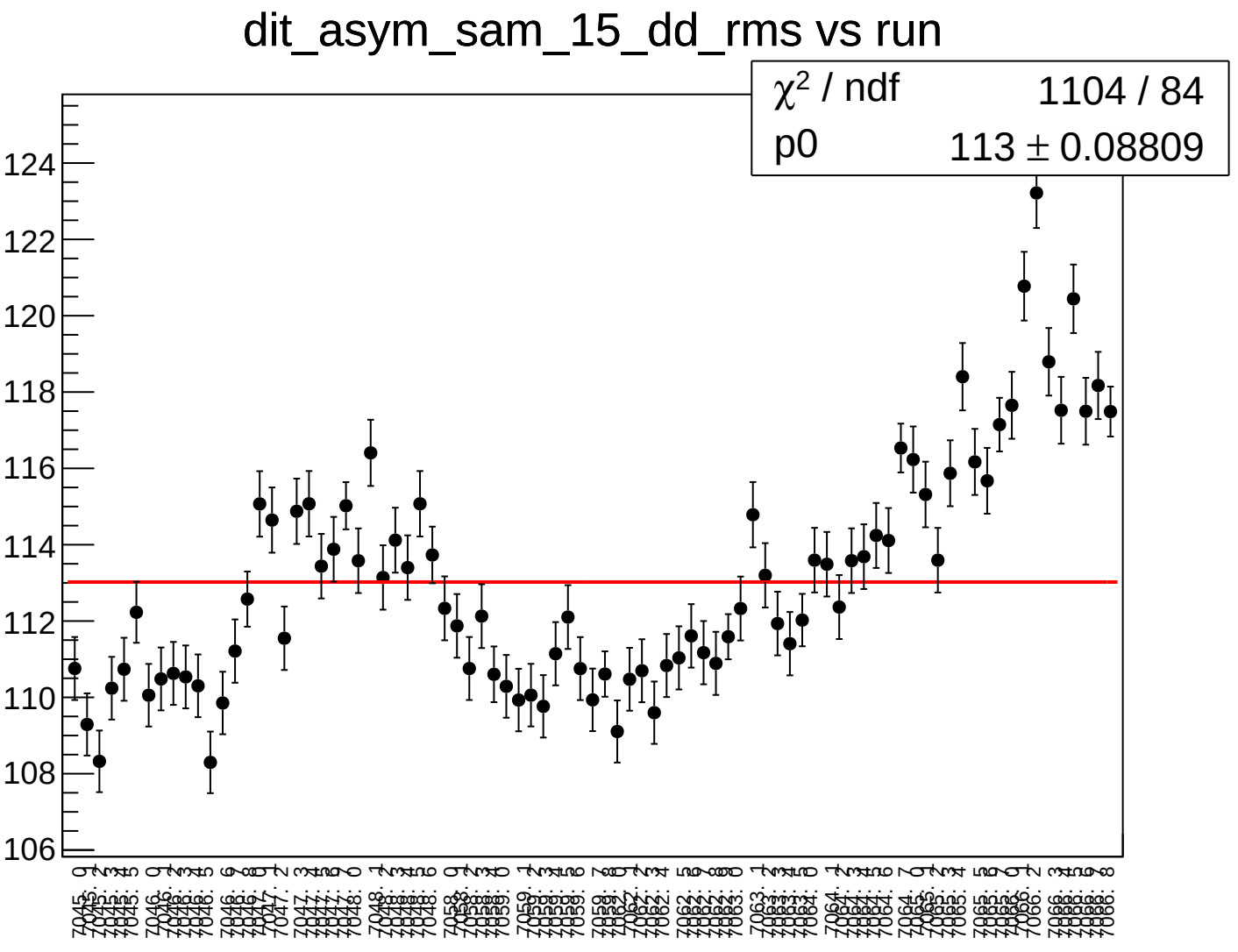

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.98 / 84
p0 844.8 ± 720.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 247.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

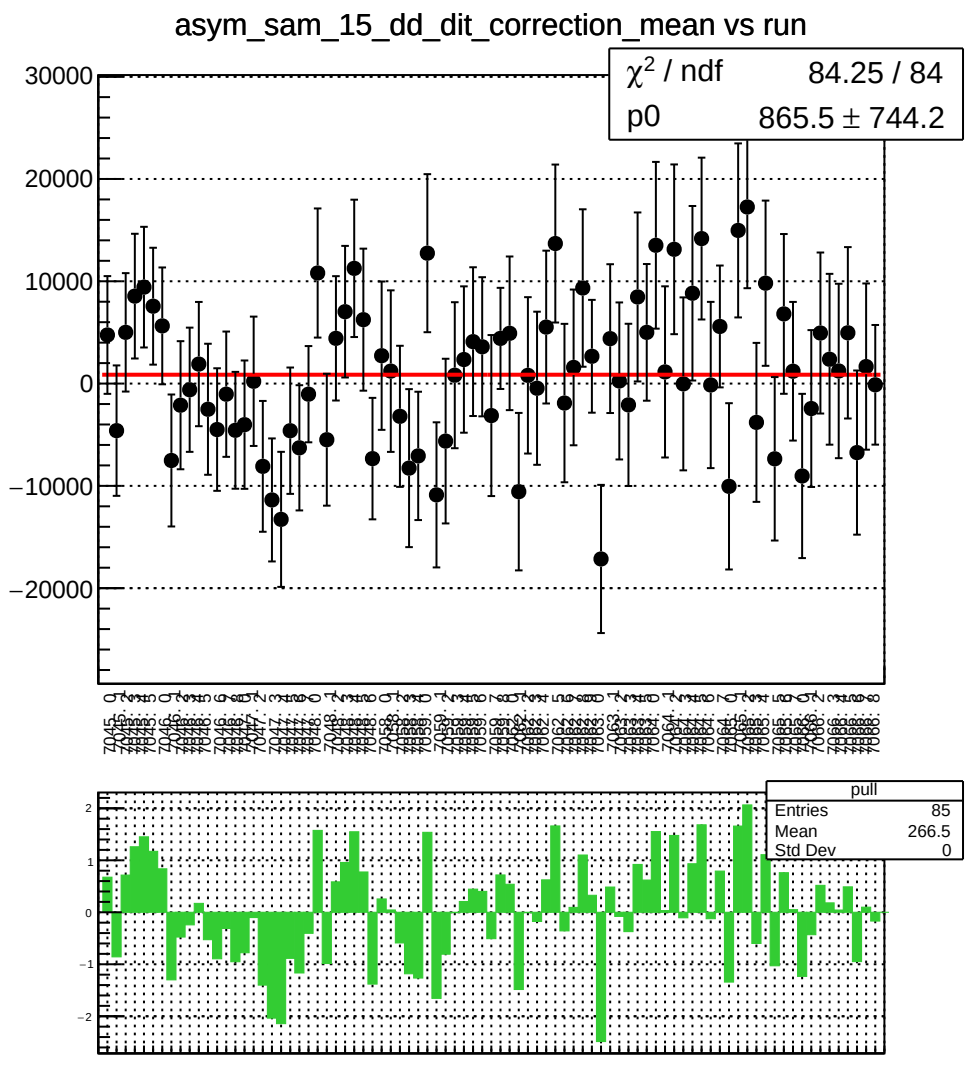

pull1D
Entries 85
Mean 0.01758
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

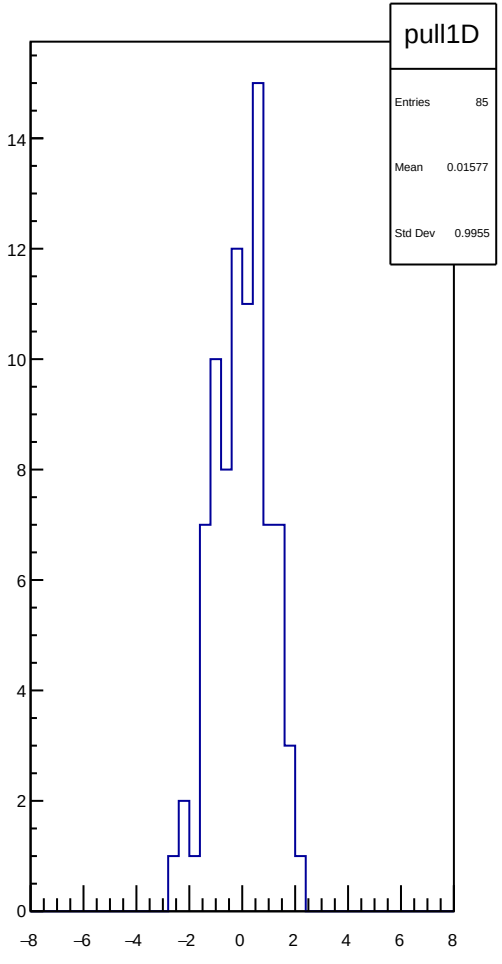

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.498e+04 / 84
p0 648.8 ± 0.5094
800
750
700
650
600
550
500

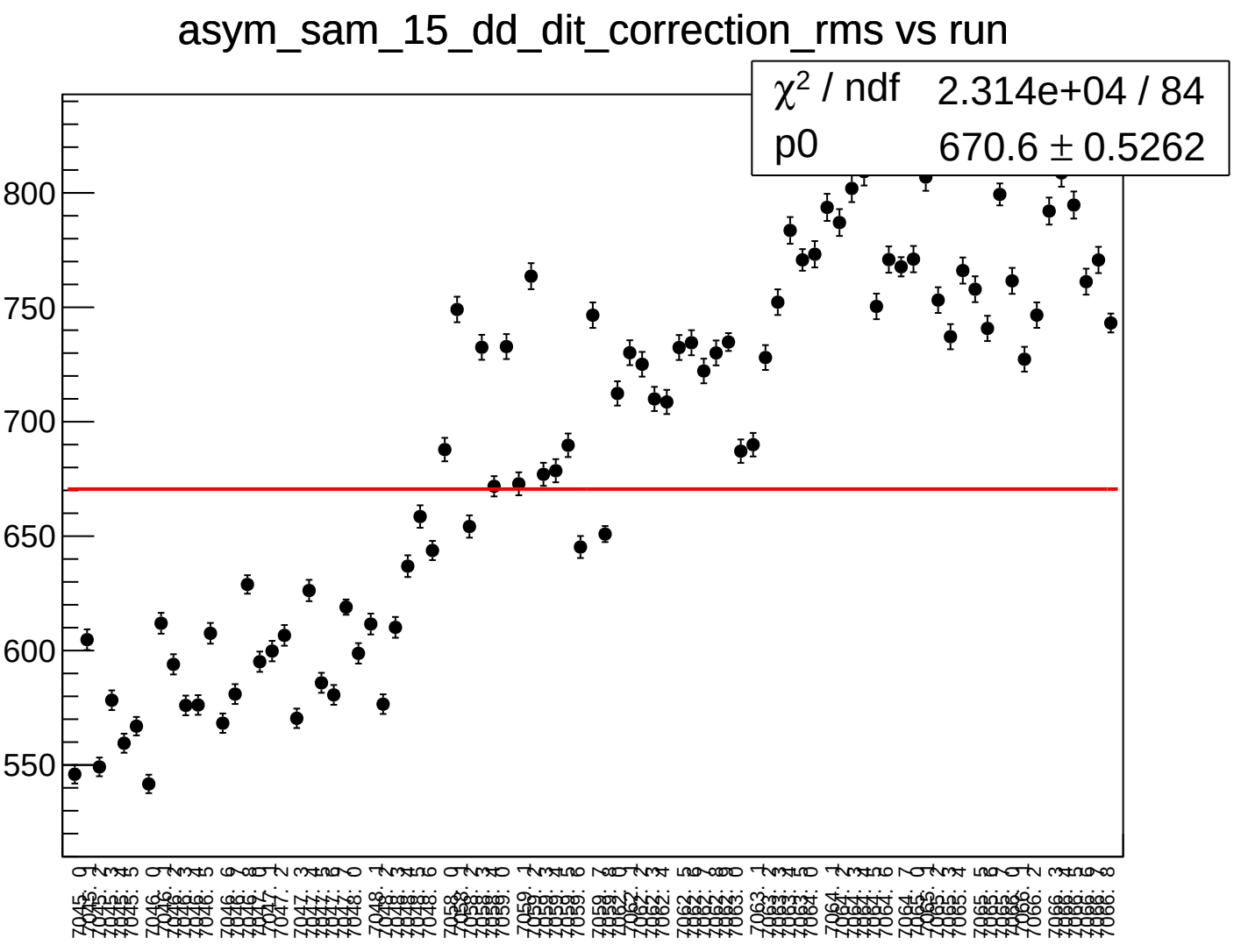

dit_asym_sam_15_dd_mean vs run
χ² / ndf 81.53 / 84
p0 −428.5 ± 124.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 105.2
Std Dev 157.7
3
2
1
0
−1
−2
−3

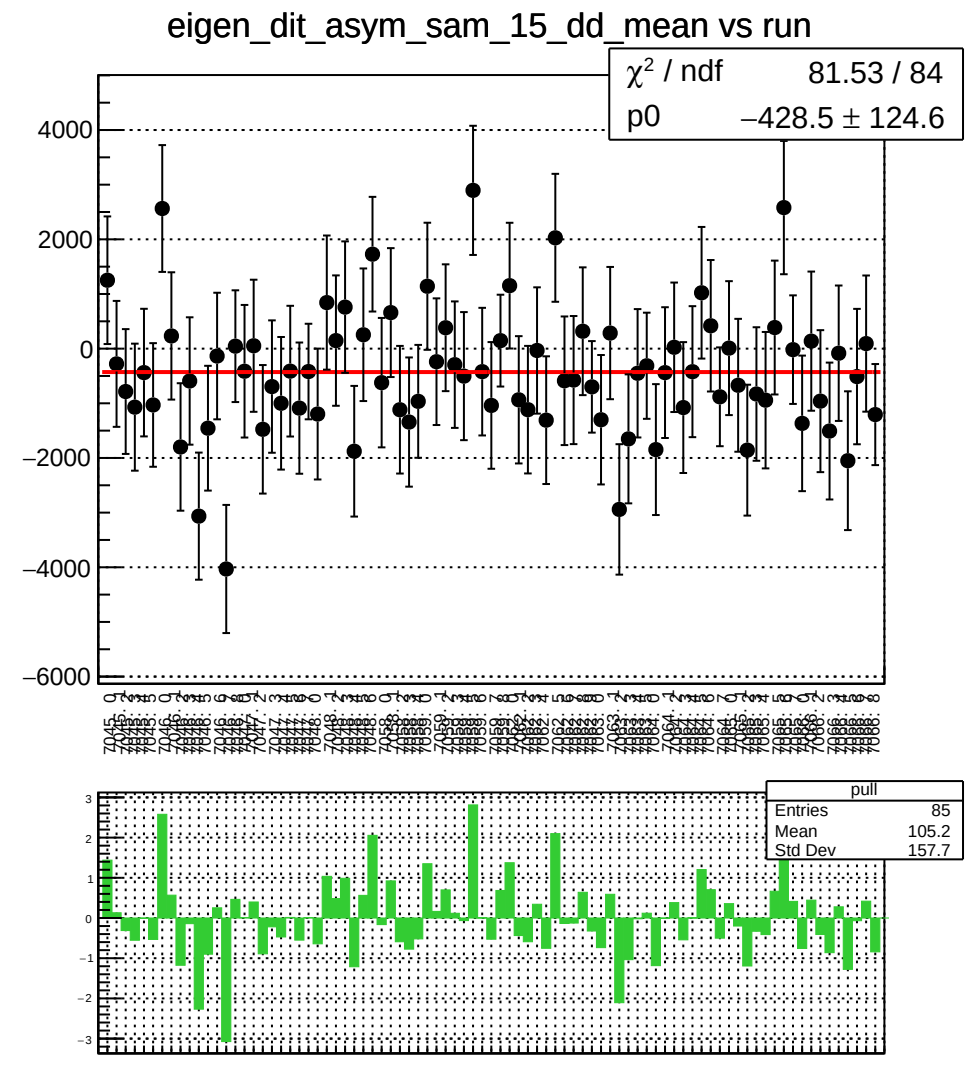

pull1D
Entries 85
Mean −0.001947
Std Dev 0.9794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

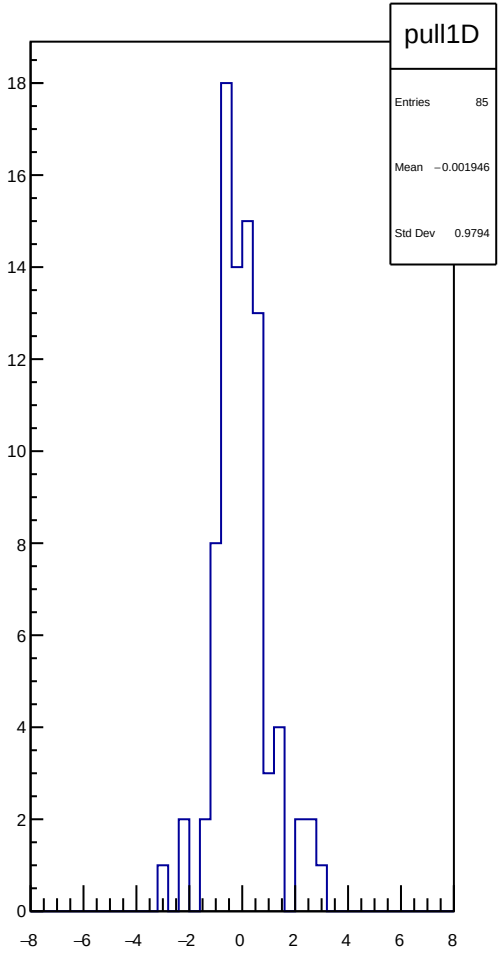

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1104 / 84
p0 113 ± 0.08809
124
122
120
118
116
114
112
110
108
106

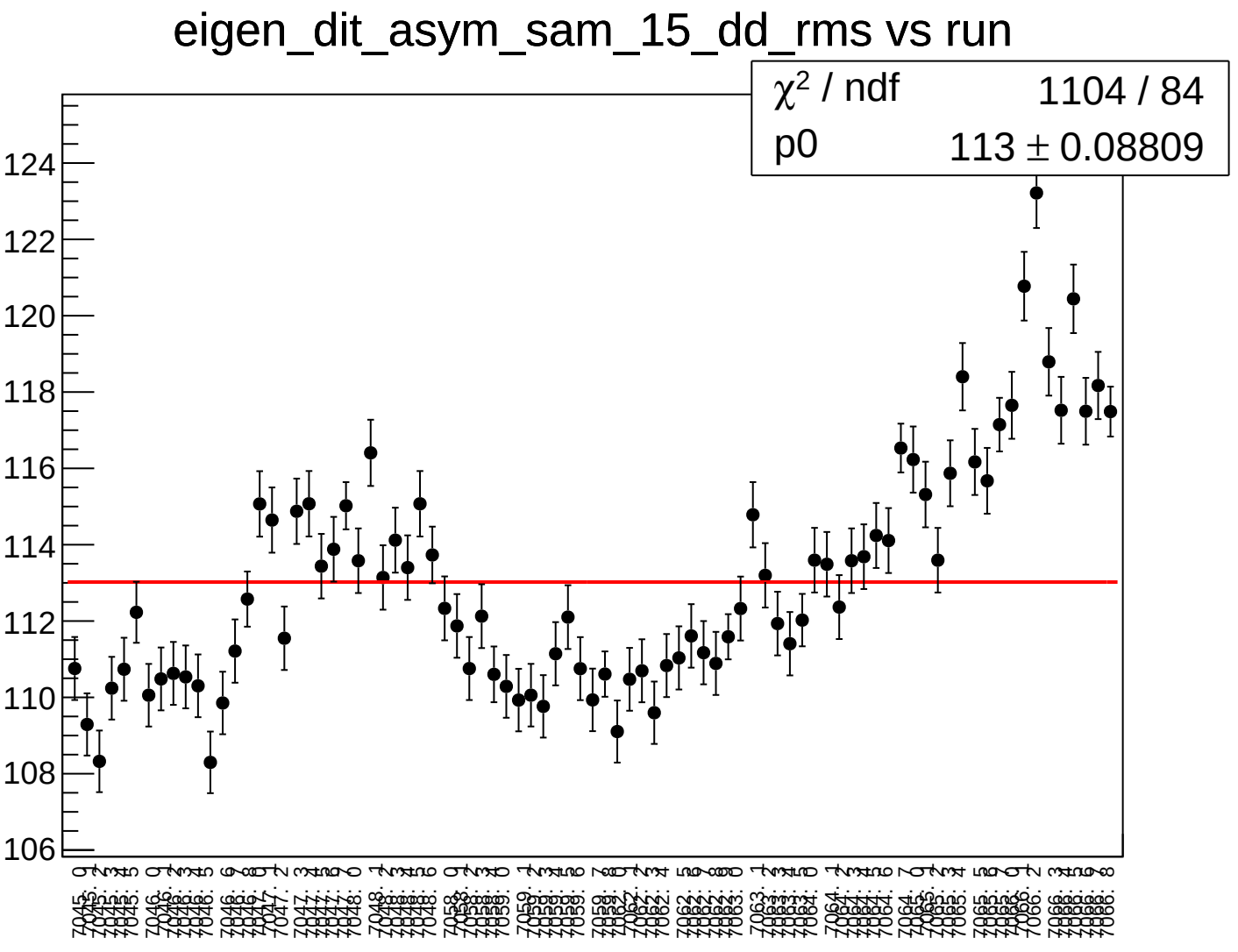

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 84.25 / 84
p0 865.5 ± 744.2
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 266.5
Std Dev 0
2
1
0
−1
−2

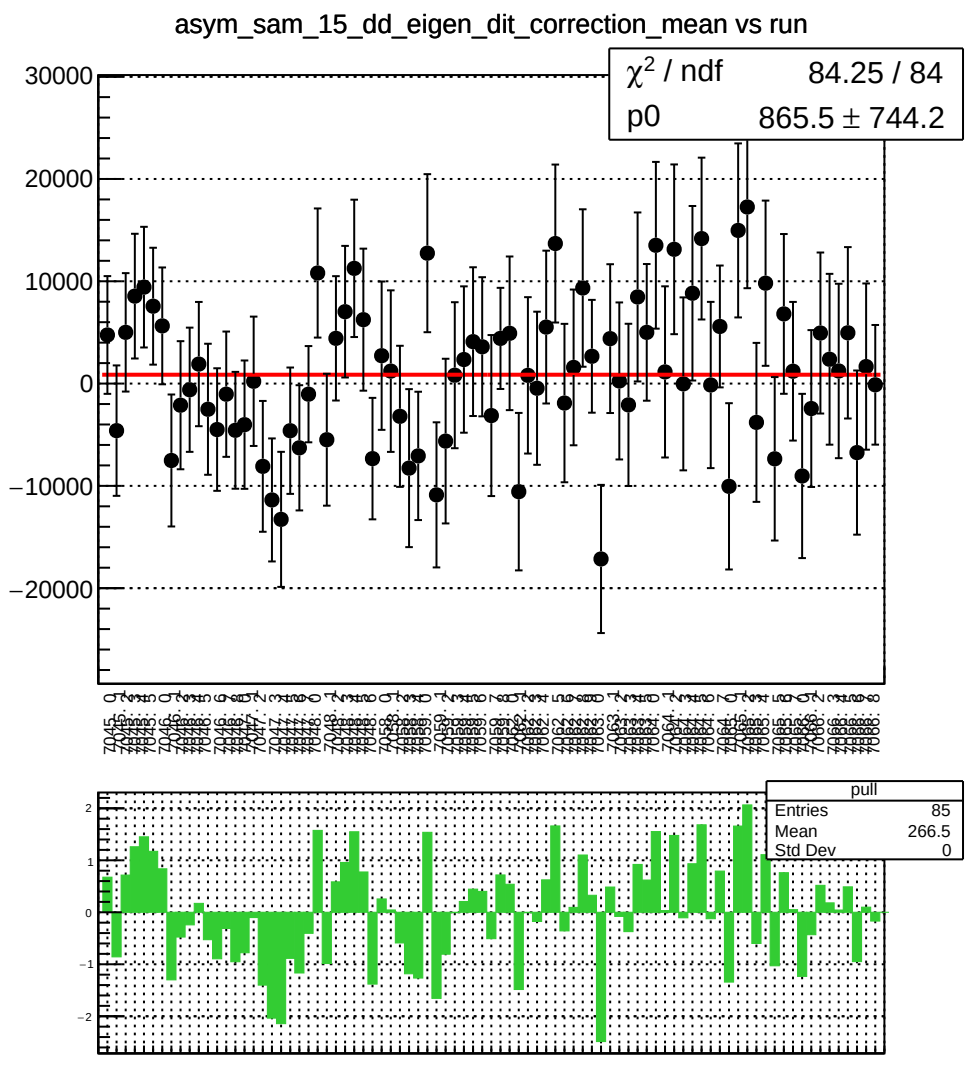

pull1D
Entries 85
Mean 0.01577
Std Dev 0.9955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

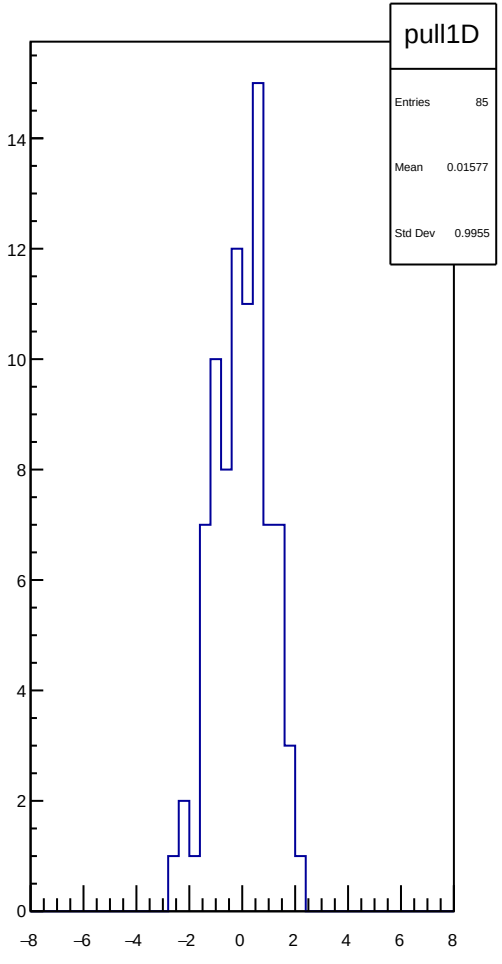

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.314e+04 / 84
p0 670.6 ± 0.5262
800
750
700
650
600
550

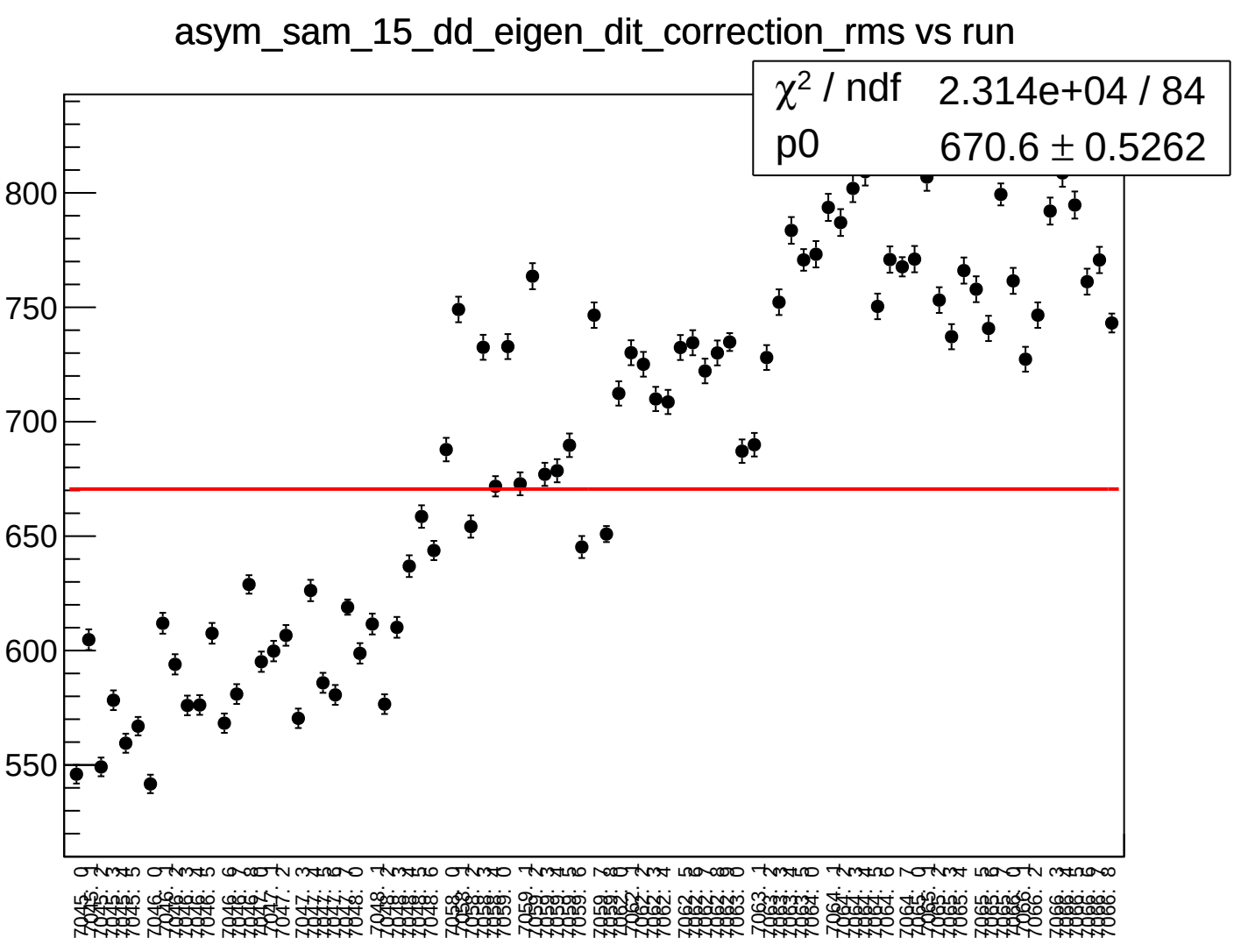

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 81.53 / 84
p0 −428.5 ± 124.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 105.2
Std Dev 157.7
3
2
1
0
−1
−2
−3

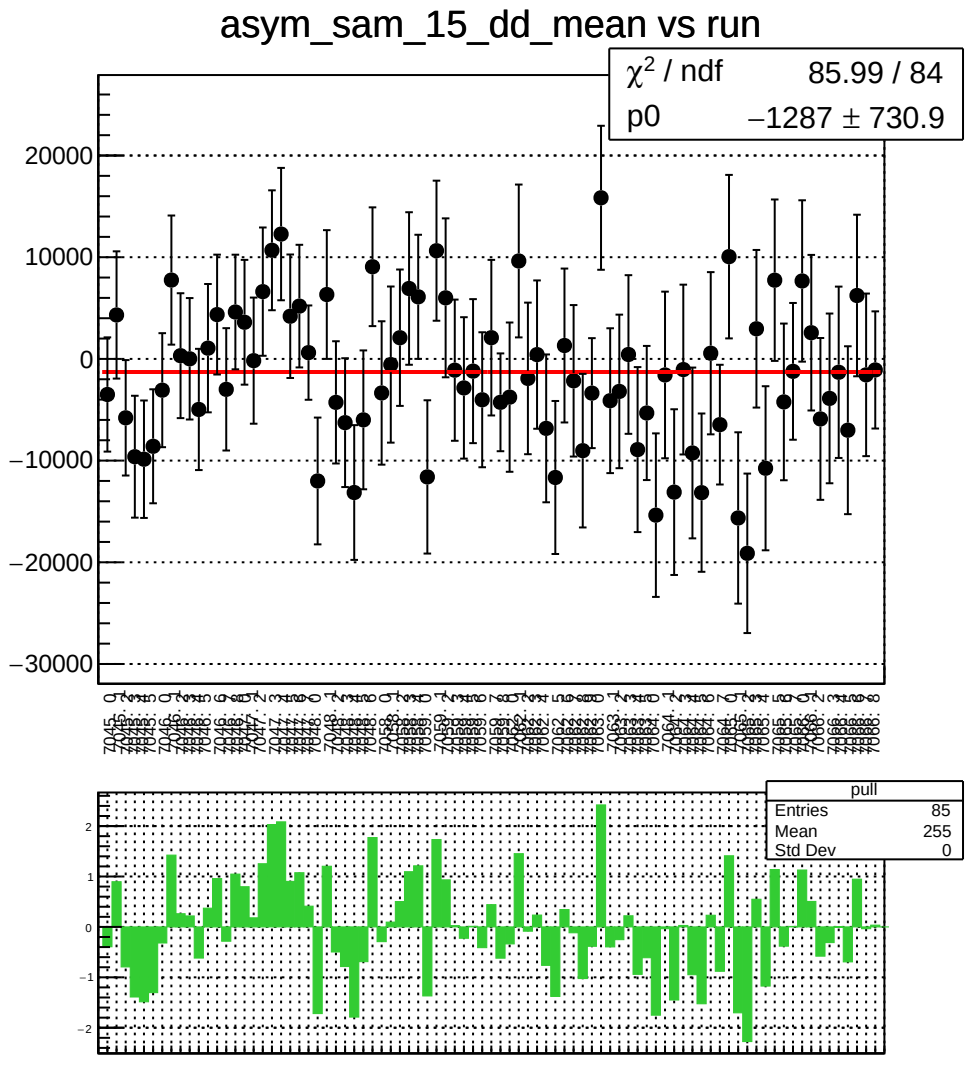

pull1D
Entries 85
Mean −0.001946
Std Dev 0.9794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

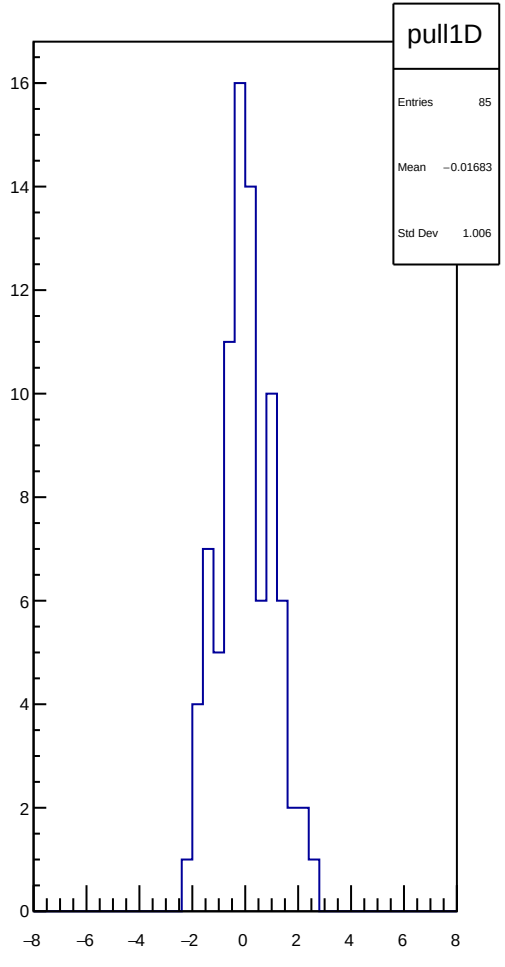

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1104 / 84
p0 113 ± 0.08809
124
122
120
118
116
114
112
110
108
106

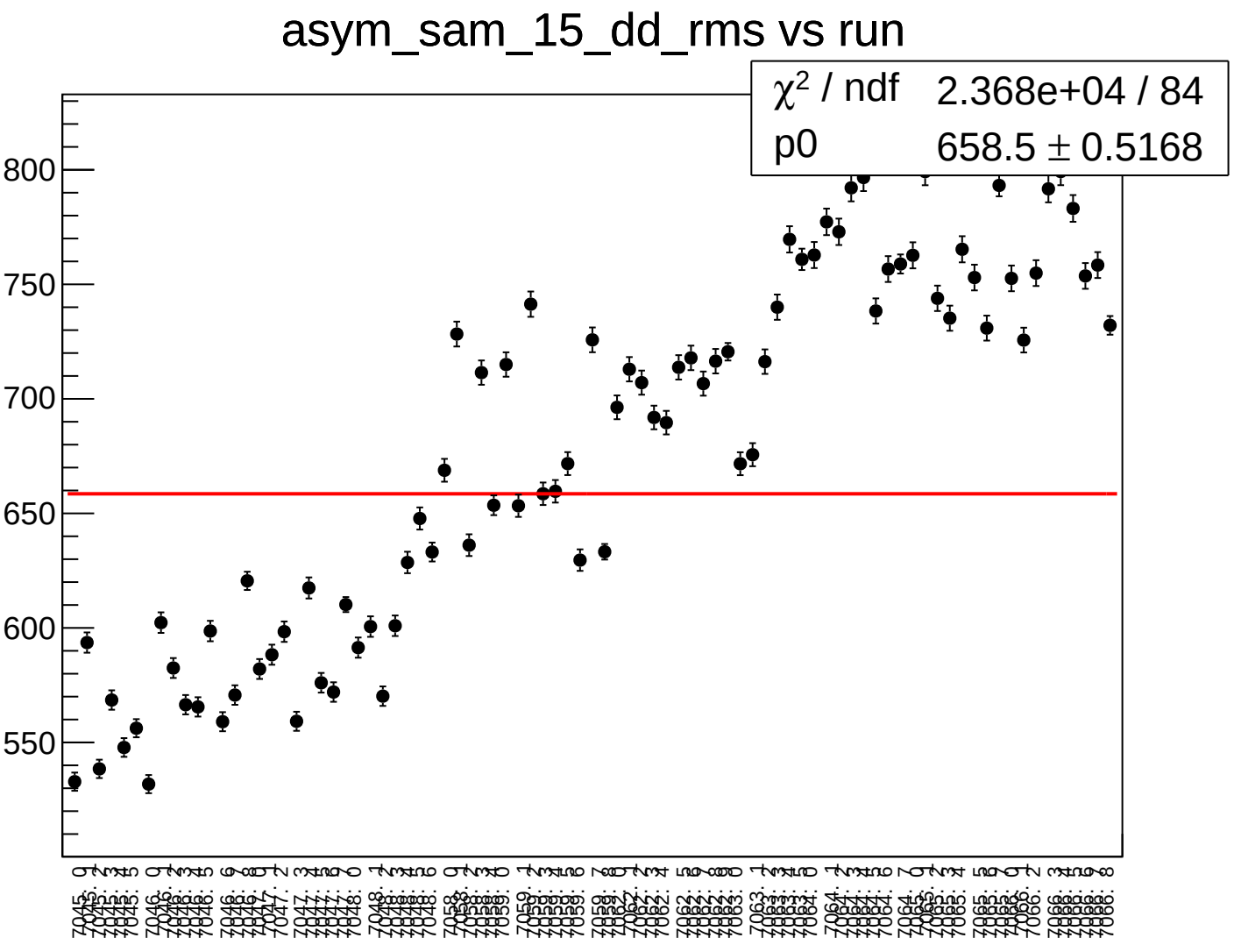

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.25 / 84
p0 865.5 ± 744.2
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 266.5
Std Dev 0
2
1
0
−1
−2

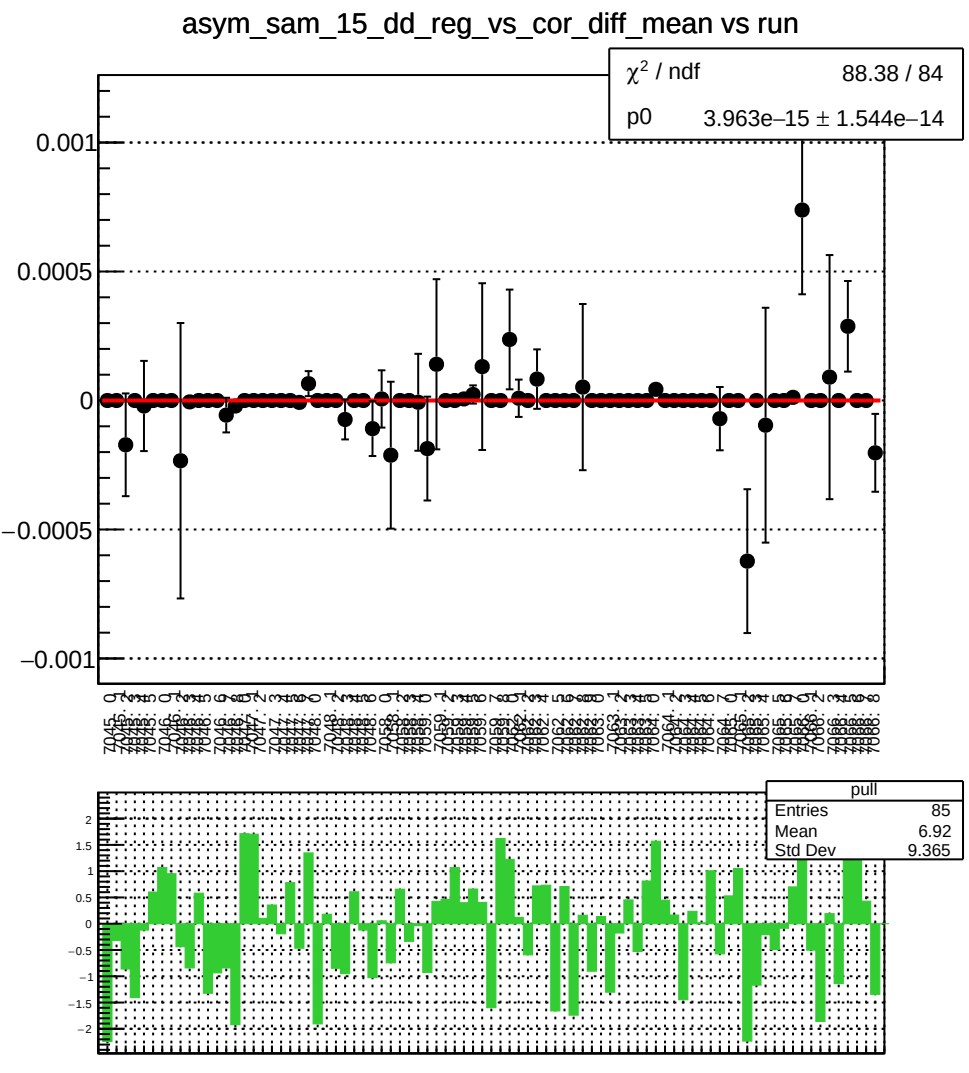

pull1D
Entries 85
Mean 0.01577
Std Dev 0.9955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

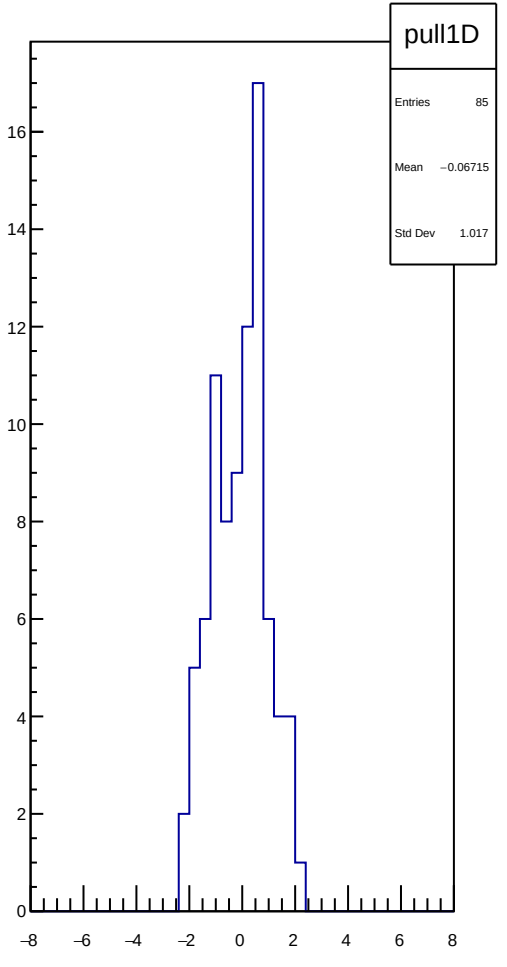

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.314e+04 / 84
p0 670.6 ± 0.5262
800
750
700
650
600
550

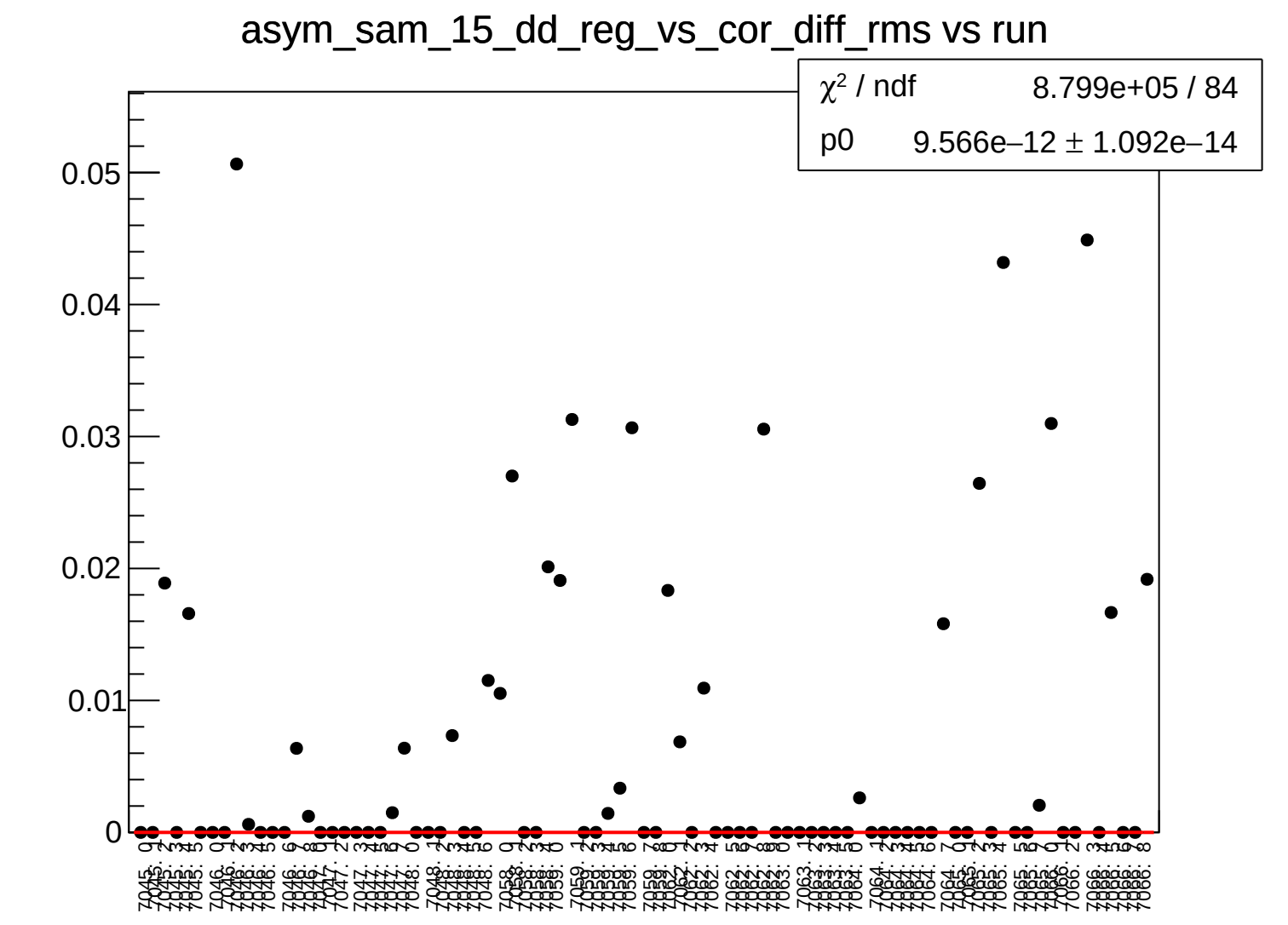

asym_sam_15_dd_mean vs run
χ² / ndf 85.99 / 84
p0 −1287 ± 730.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 255
Std Dev 0
2
1
0
−1
−2

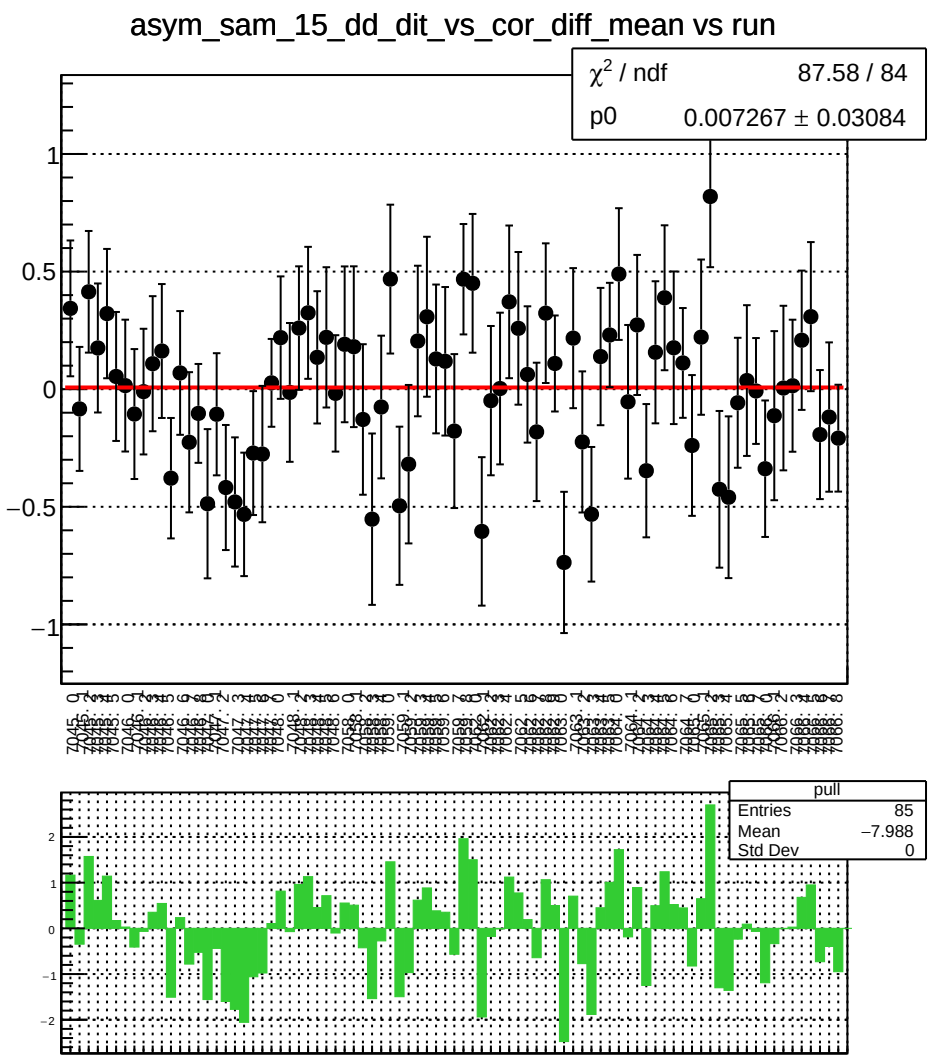

pull1D
Entries 85
Mean −0.01683
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

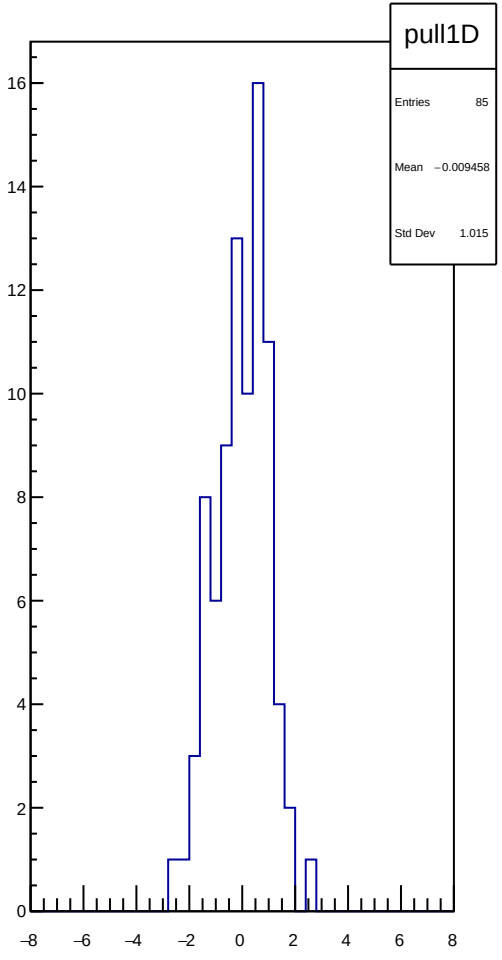

asym_sam_15_dd_rms vs run
χ² / ndf 2.368e+04 / 84
p0 658.5 ± 0.5168
800
750
700
650
600
550

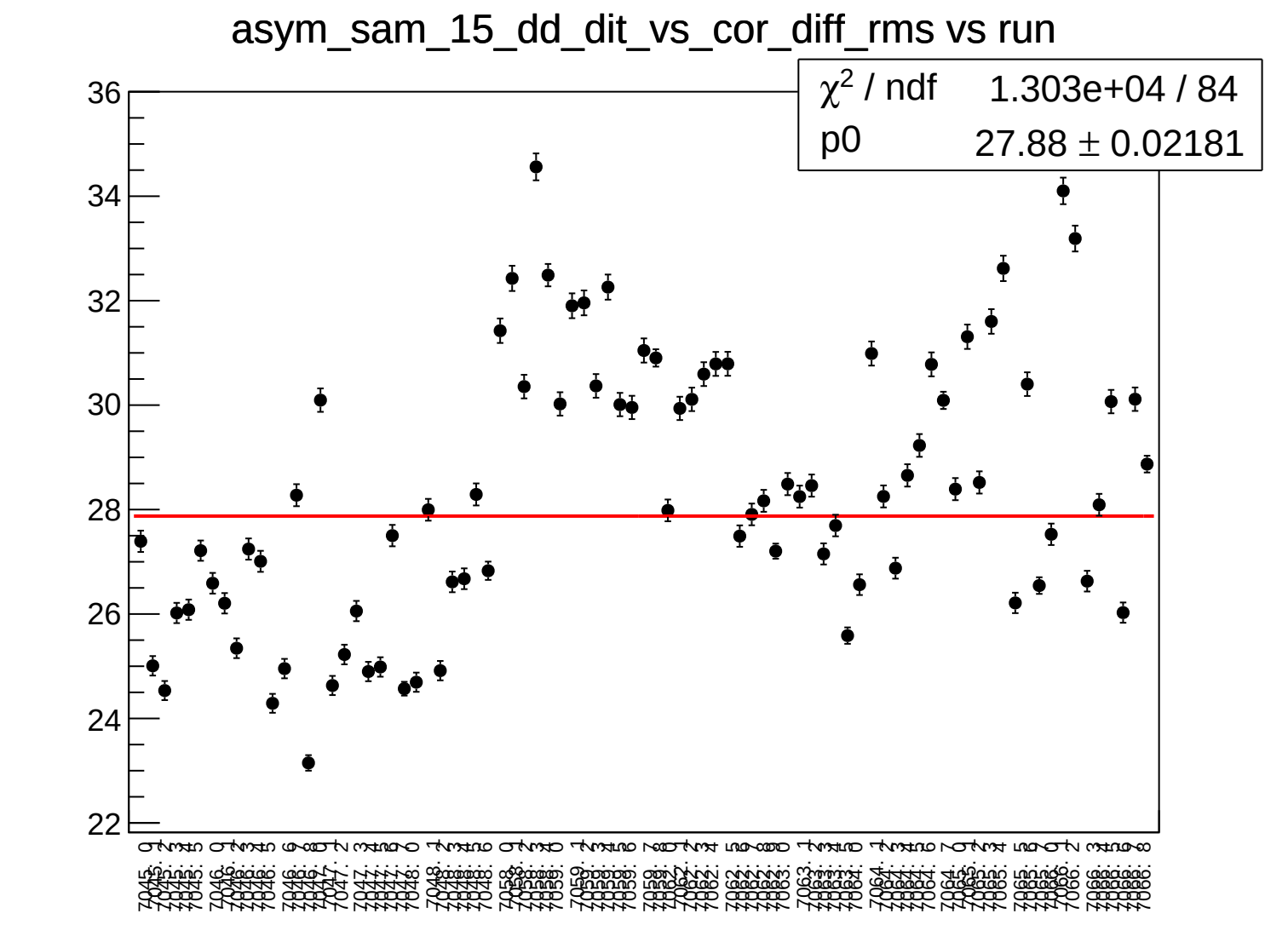

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 84
p0 3.963e−15 ± 1.544e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 6.92
Std Dev 9.365
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

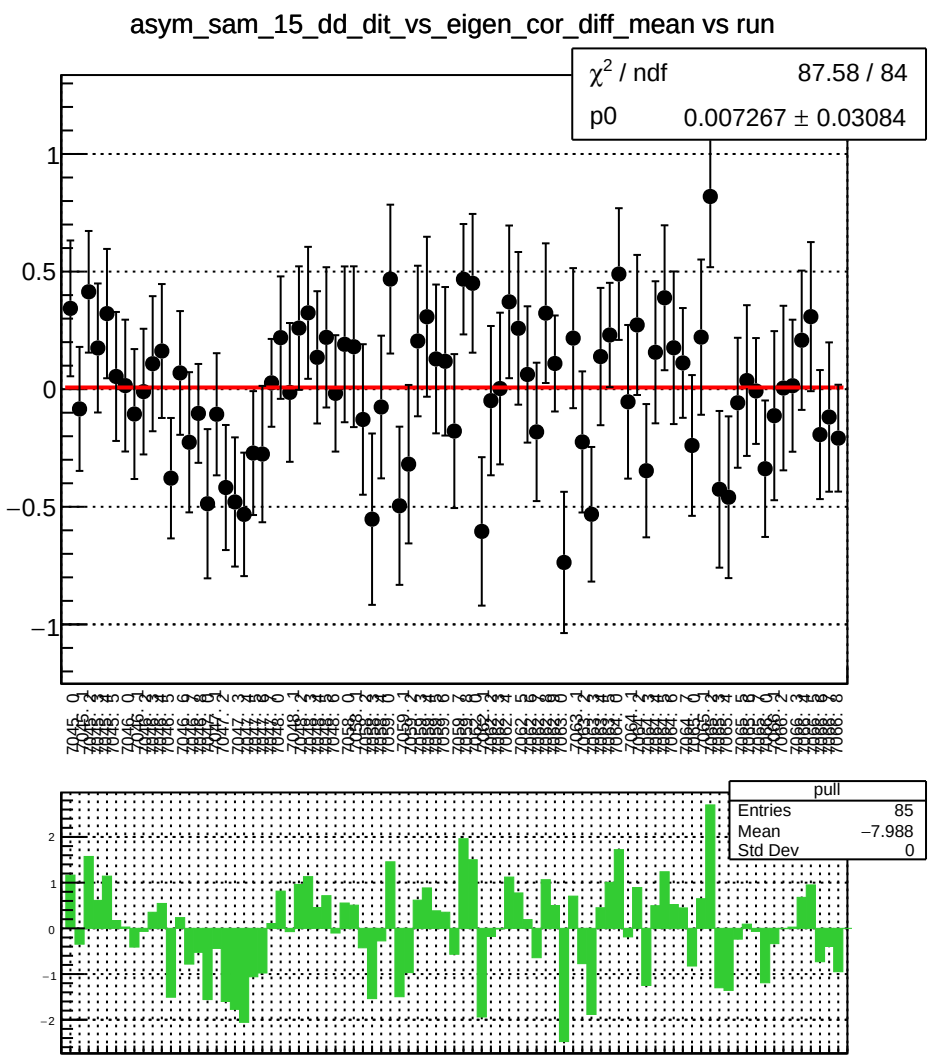

pull1D
Entries 85
Mean −0.06715
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

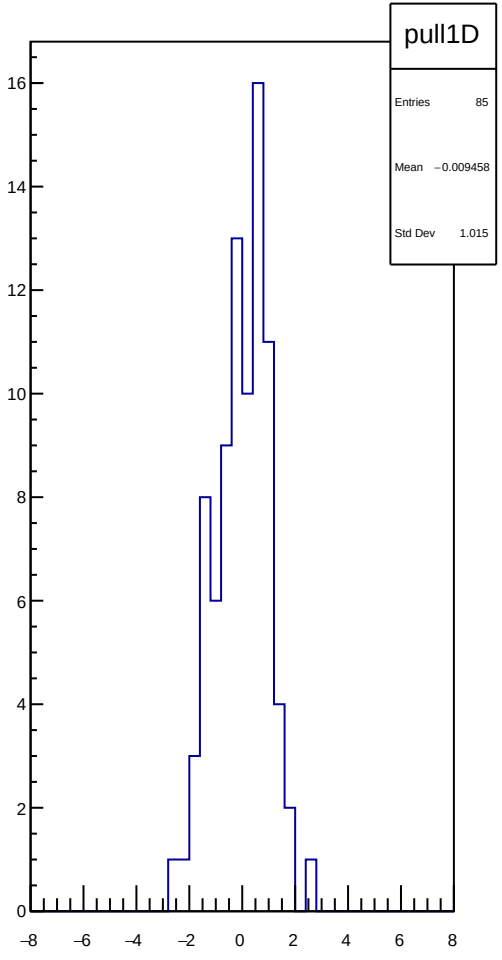

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.799e+05 / 84
p0 9.566e−12 ± 1.092e−14
0.05
0.04
0.03
0.02
0.01
0

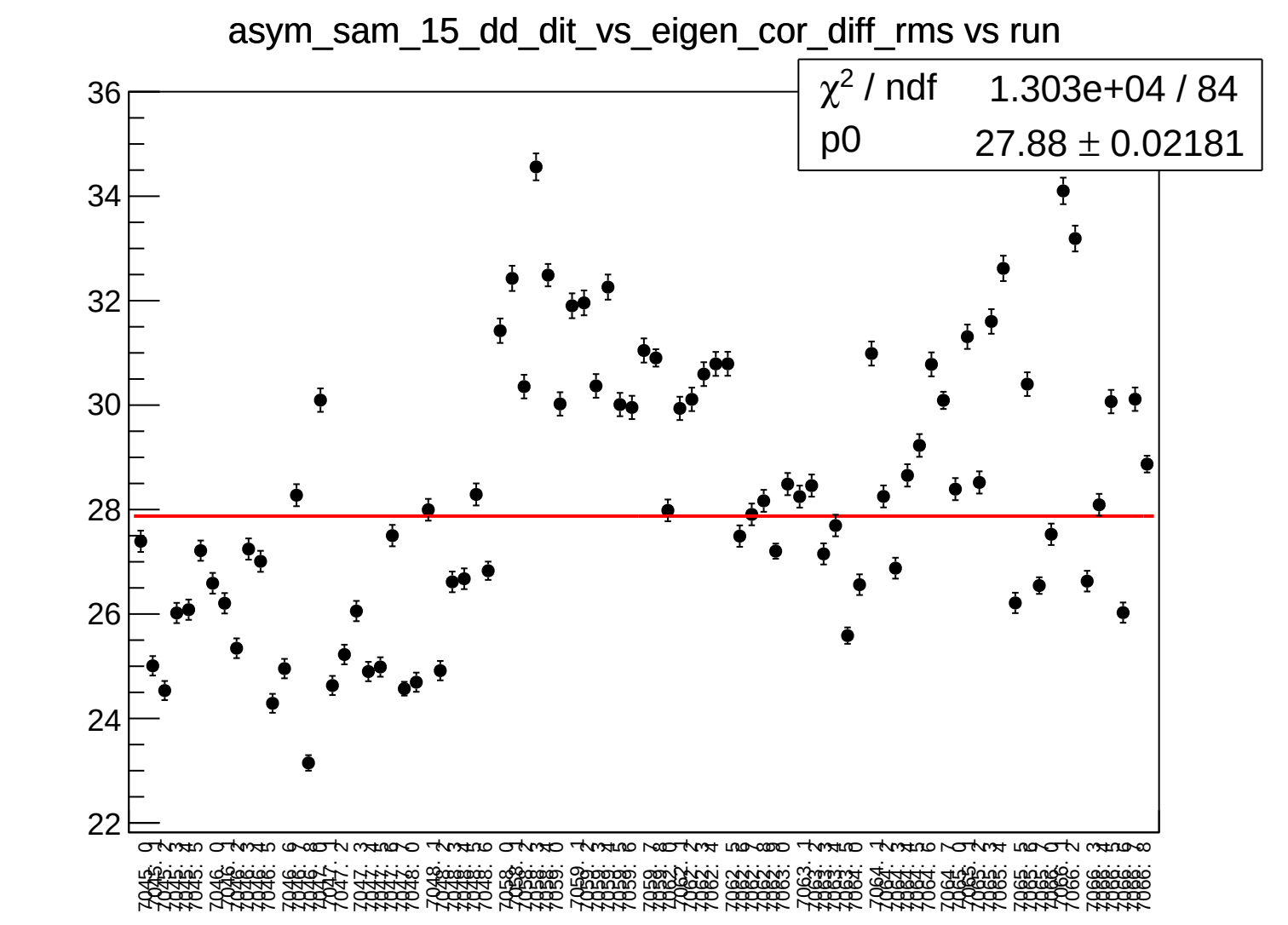

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.58 / 84
p0 0.007267 ± 0.03084
pull
Entries 85
Mean −7.988
Std Dev 0

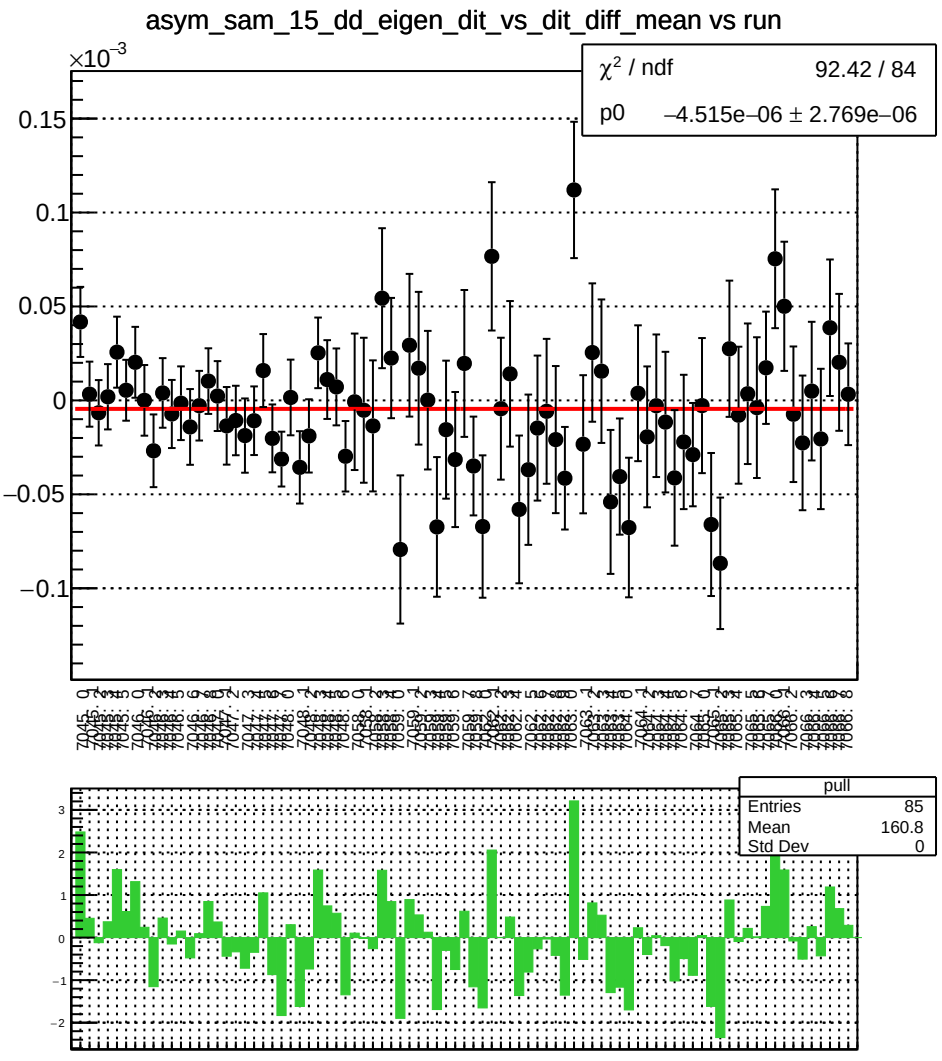

pull1D
Entries 85
Mean −0.009458
Std Dev 1.015

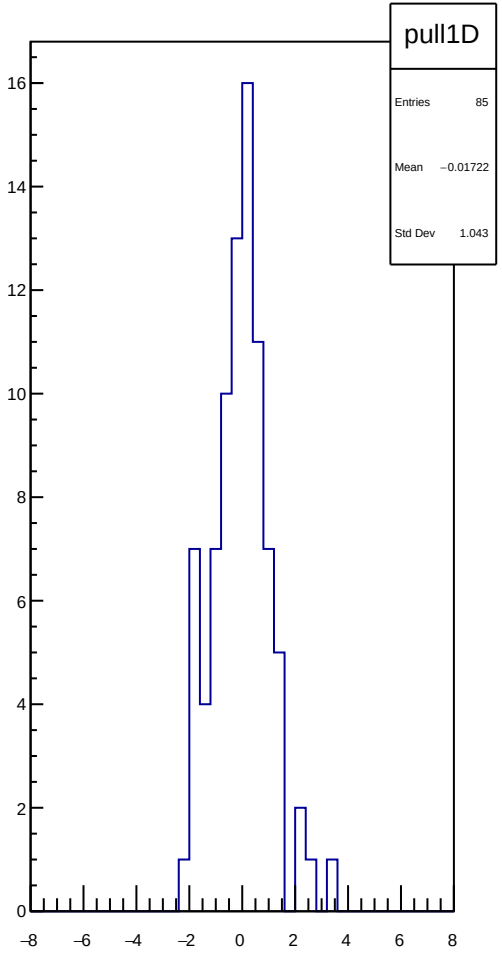

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.303e+04 / 84
p0 27.88 ± 0.02181
36
34
32
30
28
26
24
22

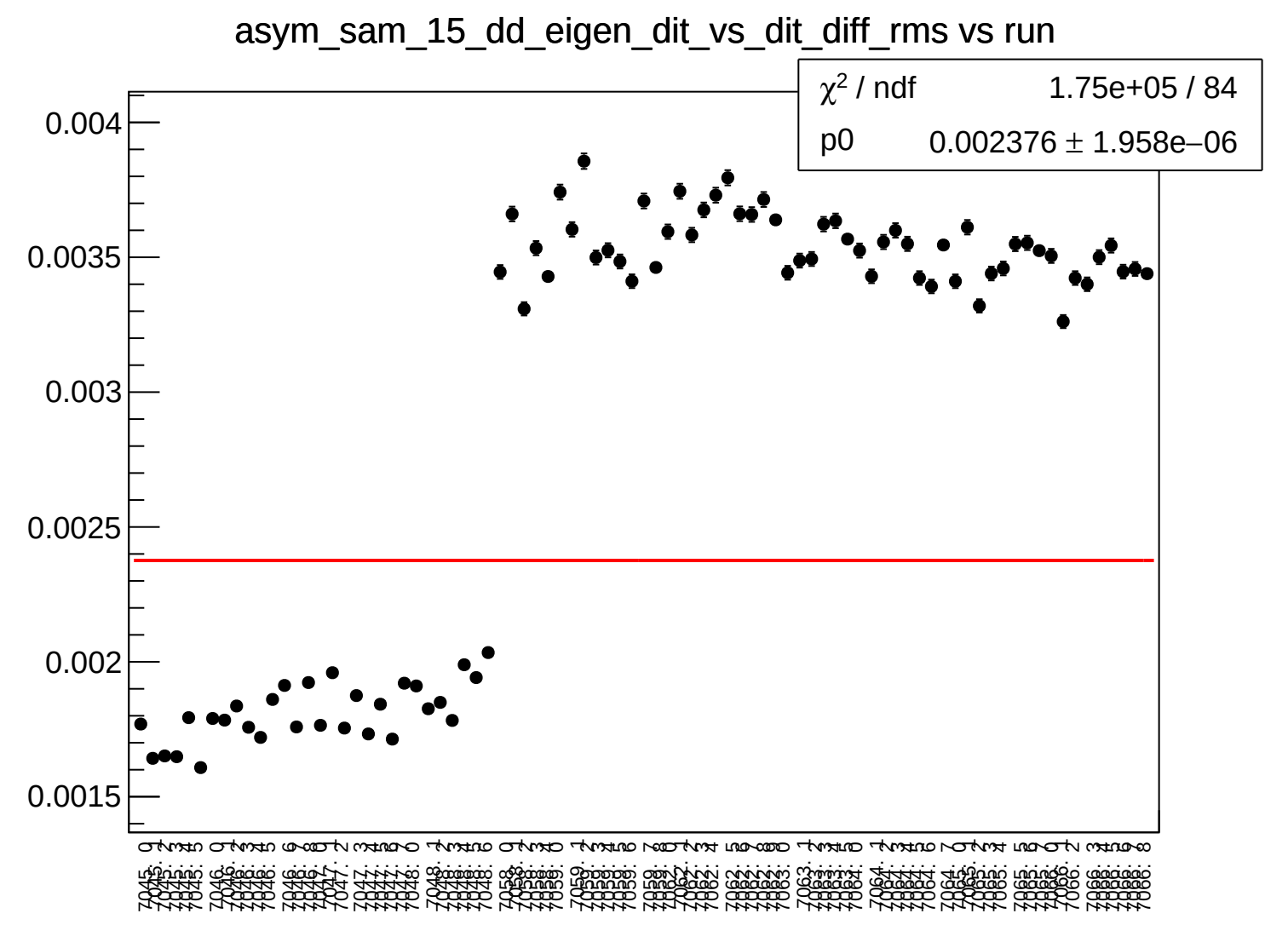

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.58 / 84
p0 0.007267 ± 0.03084
pull
Entries 85
Mean −7.988
Std Dev 0

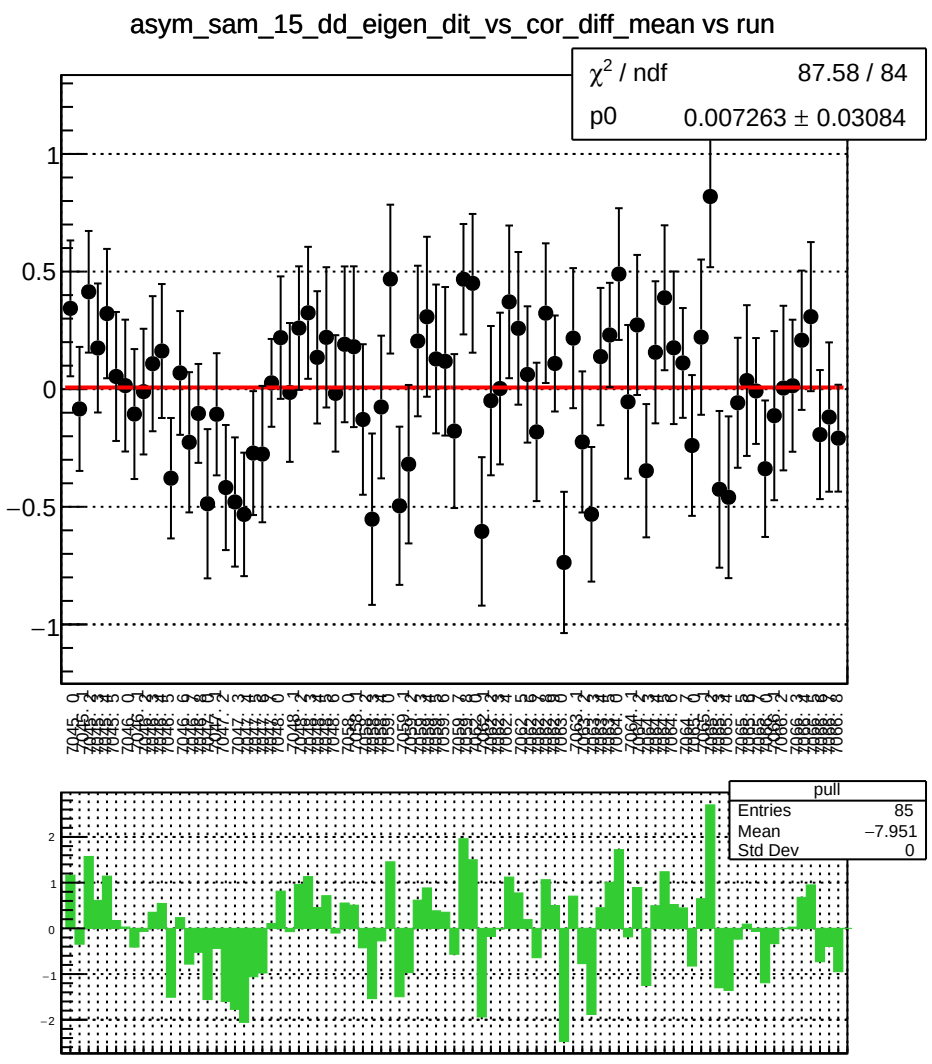

pull1D
Entries 85
Mean −0.009458
Std Dev 1.015

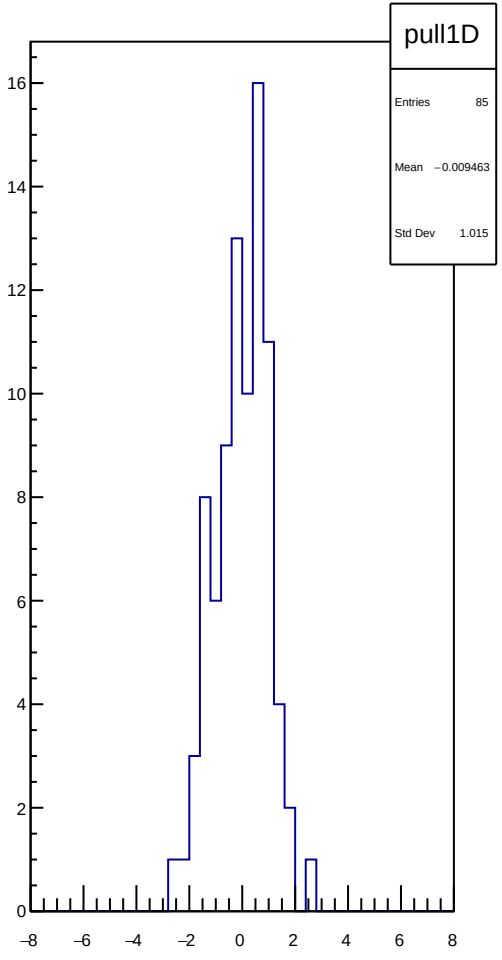

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.303e+04 / 84
p0 27.88 ± 0.02181
36
34
32
30
28
26
24
22

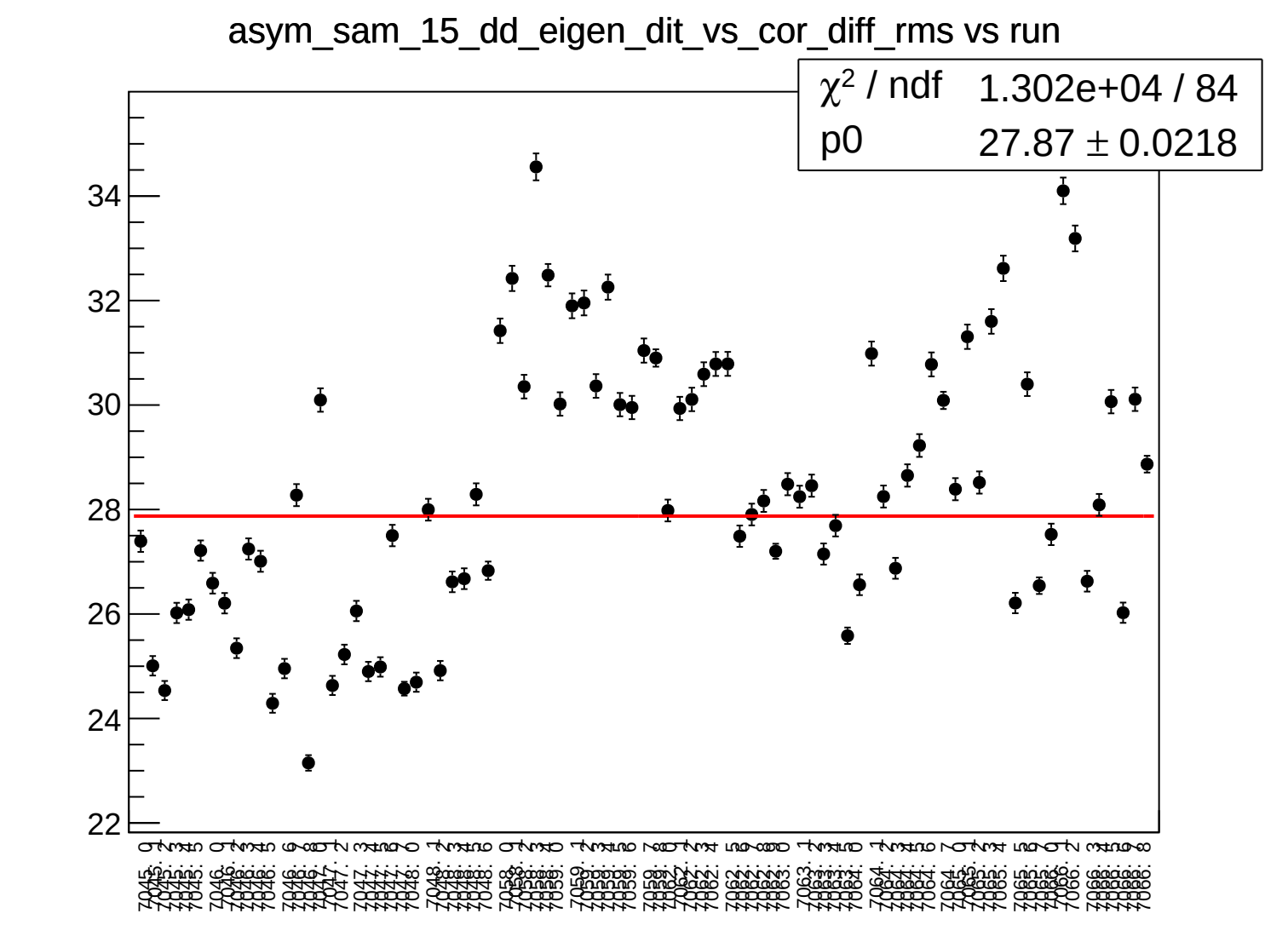

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.42 / 84
p0 −4.515e−06 ± 2.769e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

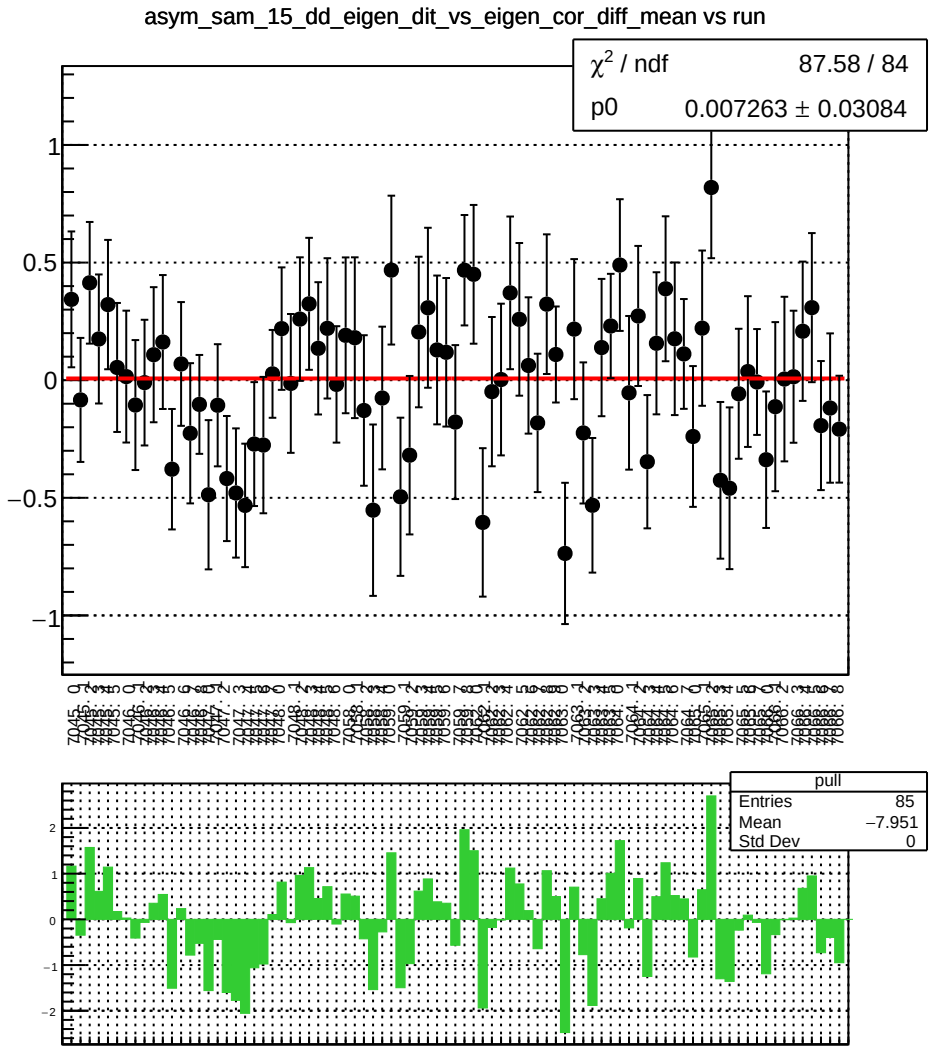

pull1D
Entries 85
Mean −0.01722
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

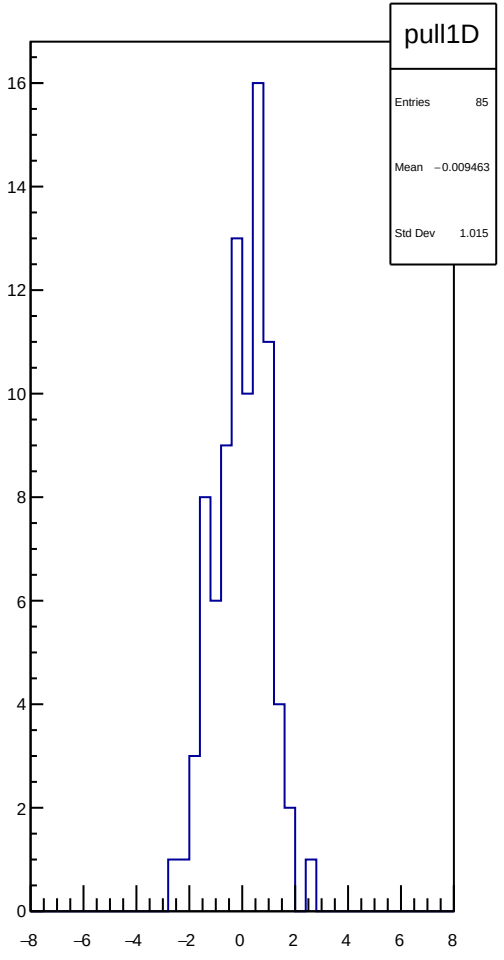

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.75e+05 / 84
p0 0.002376 ± 1.958e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

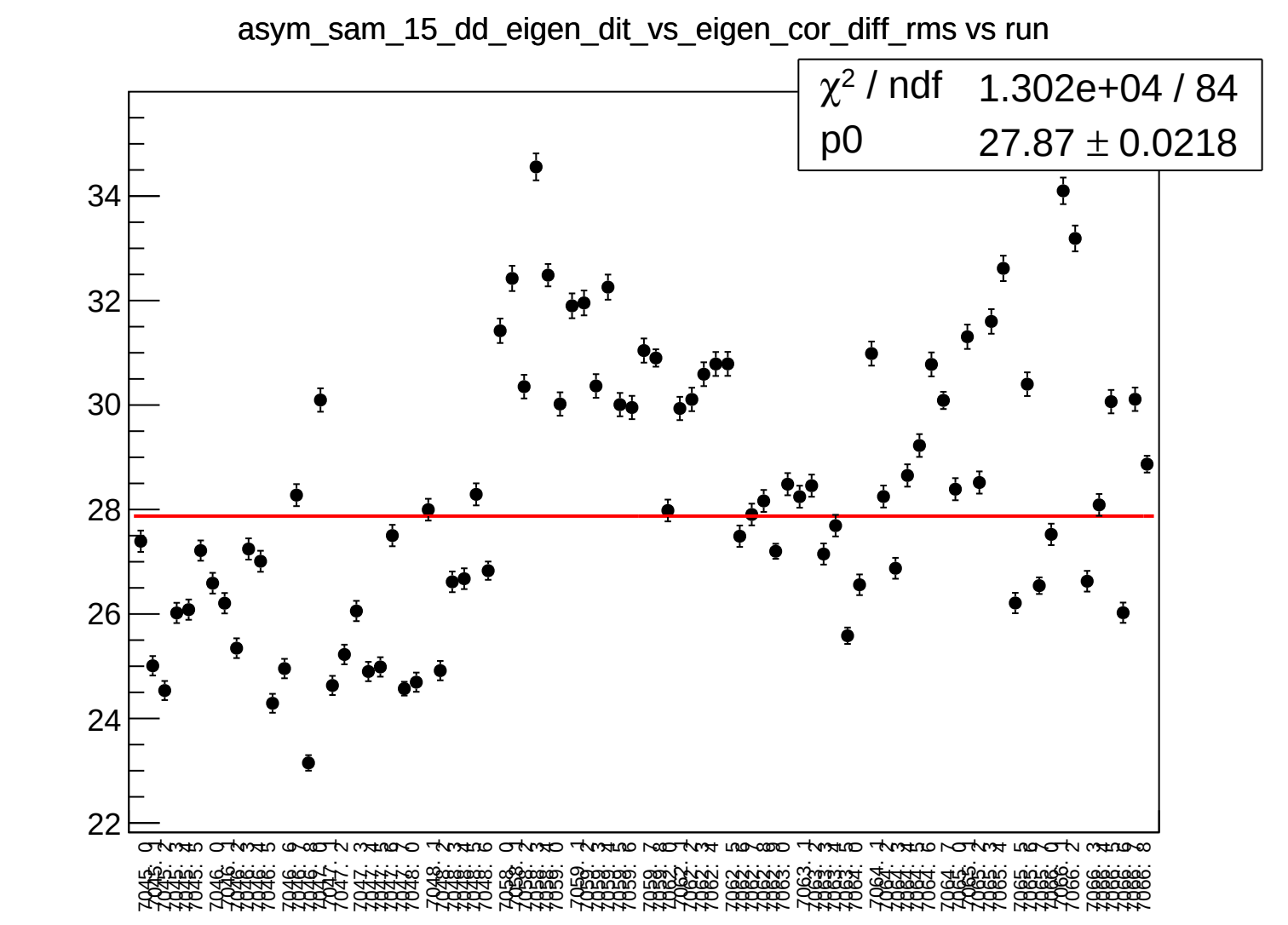

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.58 / 84
p0 0.007263 ± 0.03084
pull
Entries 85
Mean −7.951
Std Dev 0

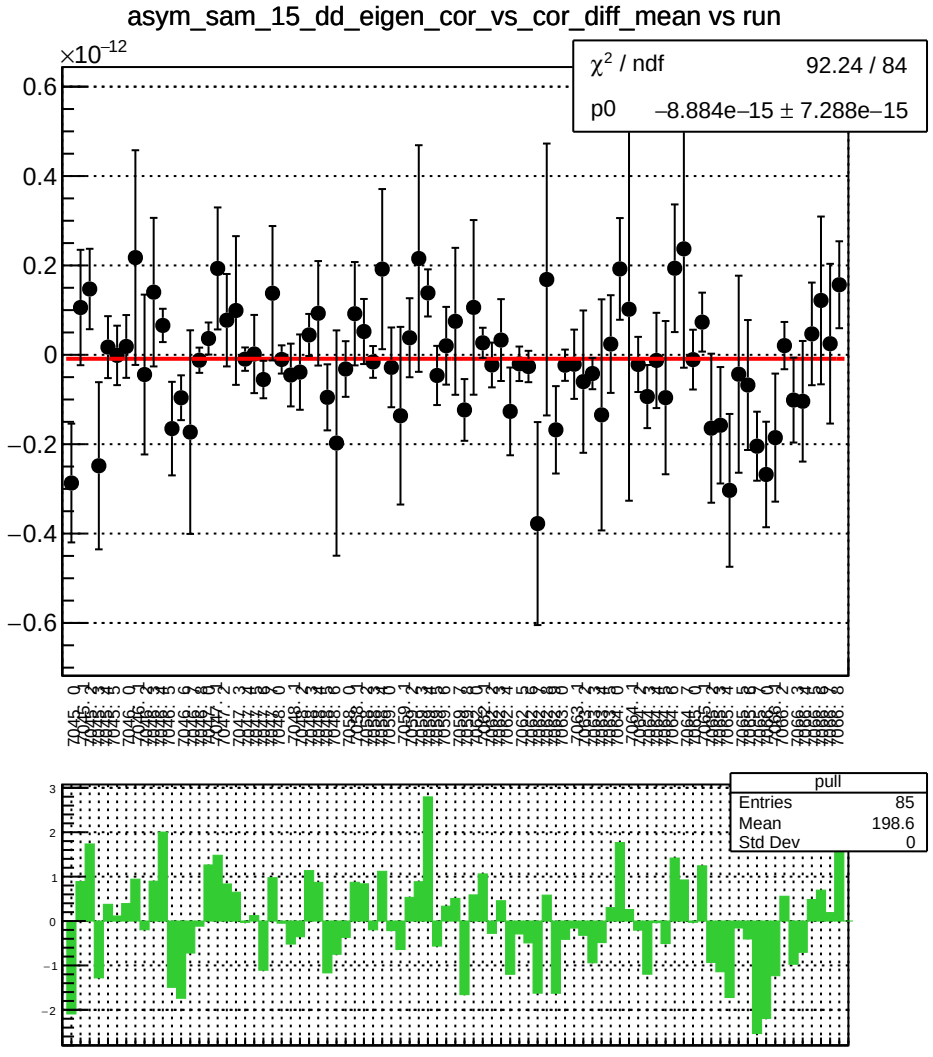

pull1D
Entries 85
Mean −0.009463
Std Dev 1.015

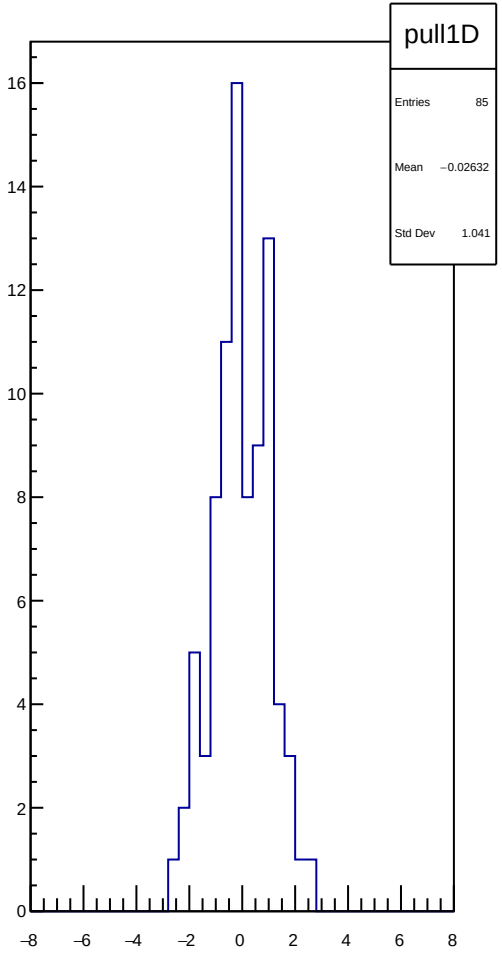

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.302e+04 / 84
p0 27.87 ± 0.0218
34
32
30
28
26
24
22

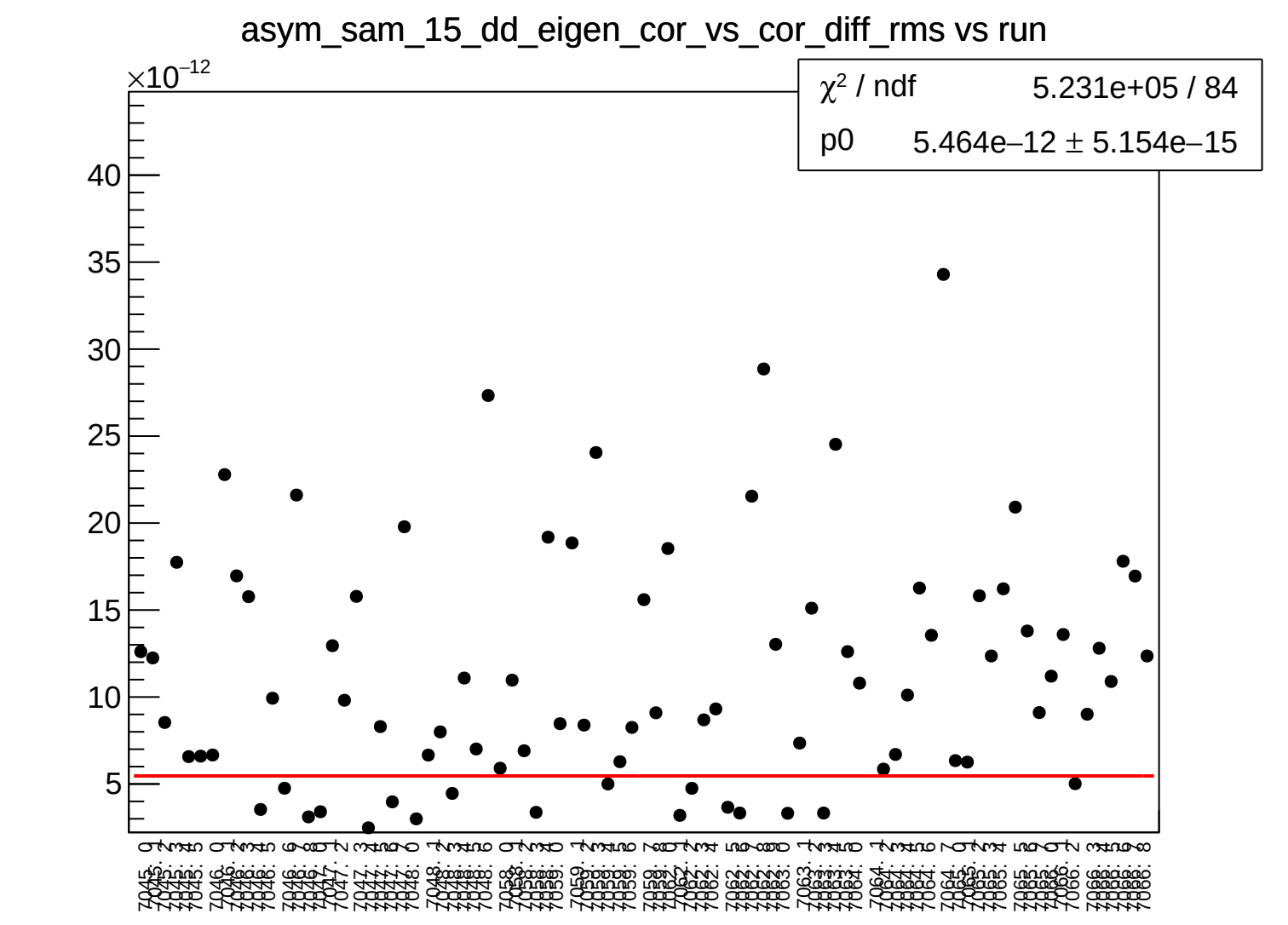

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.58 / 84
p0 0.007263 ± 0.03084
pull
Entries 85
Mean −7.951
Std Dev 0

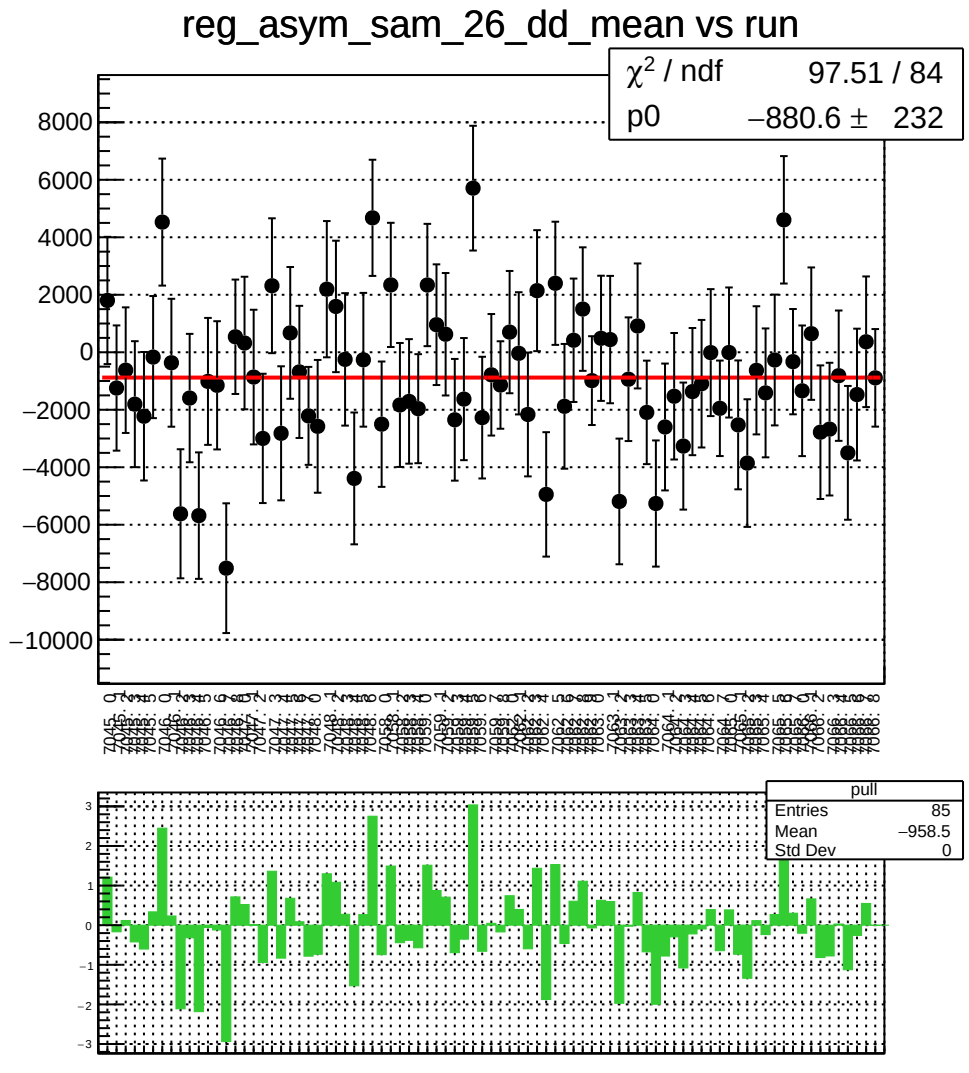

pull1D
Entries 85
Mean −0.009463
Std Dev 1.015

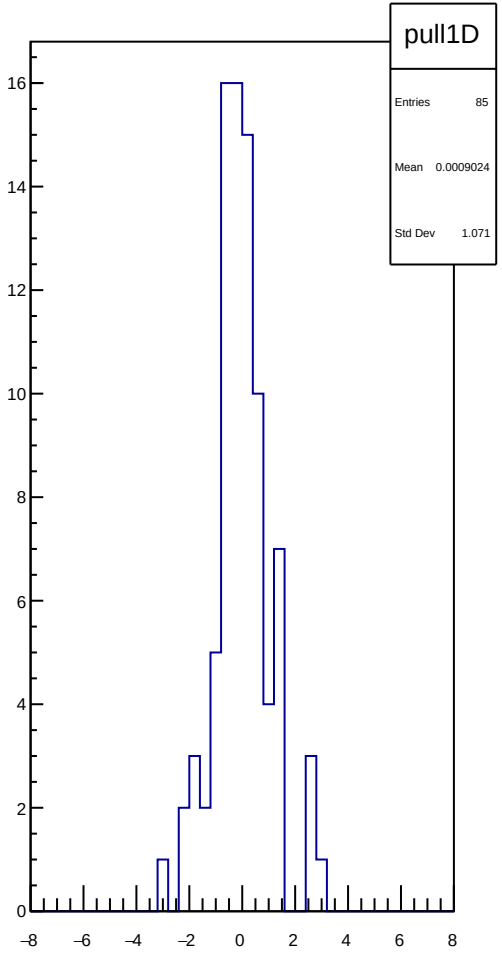

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.302e+04 / 84
p0 27.87 ± 0.0218
34
32
30
28
26
24
22

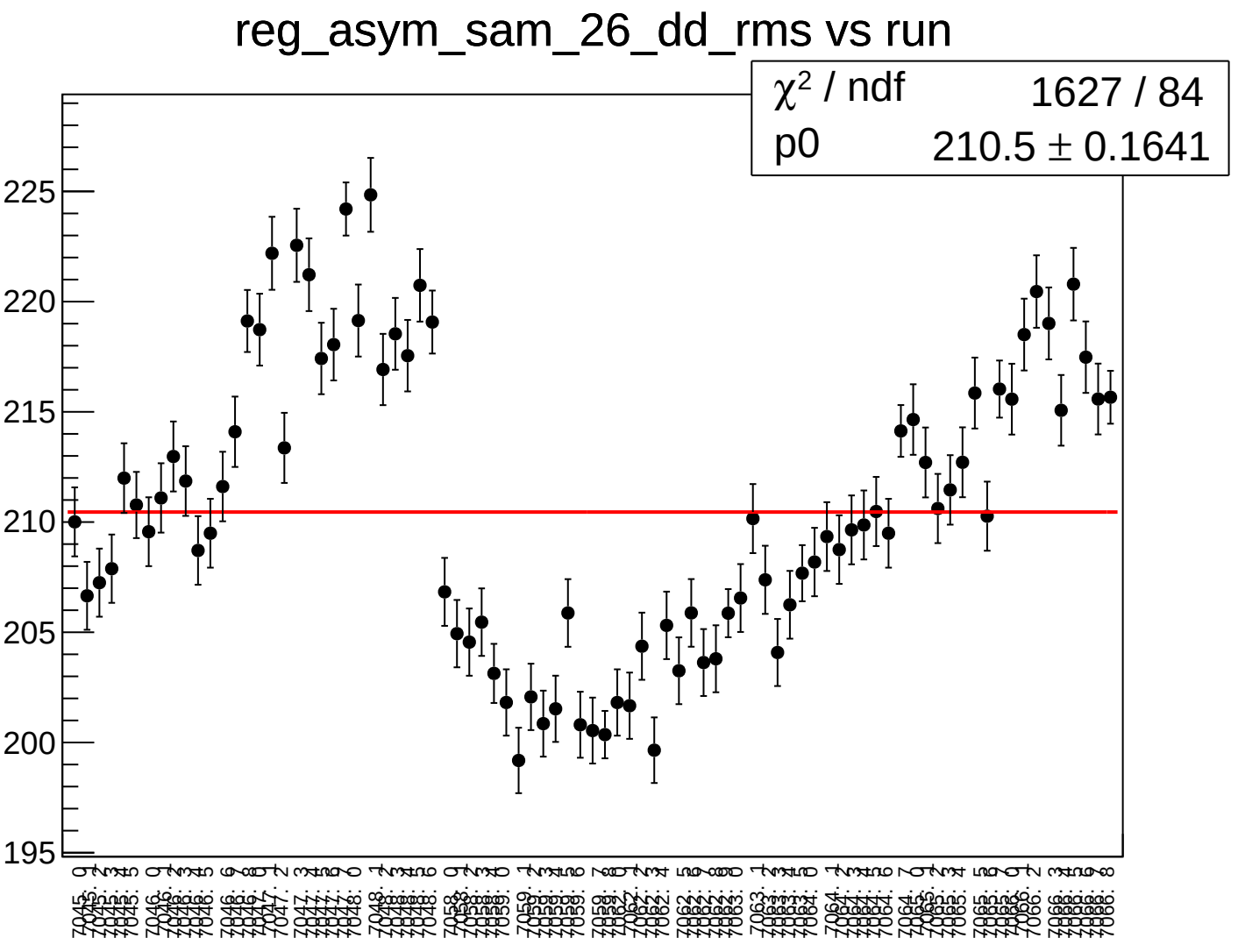

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.24 / 84
p0 −8.884e−15 ± 7.288e−15
pull
Entries 85
Mean 198.6
Std Dev 0

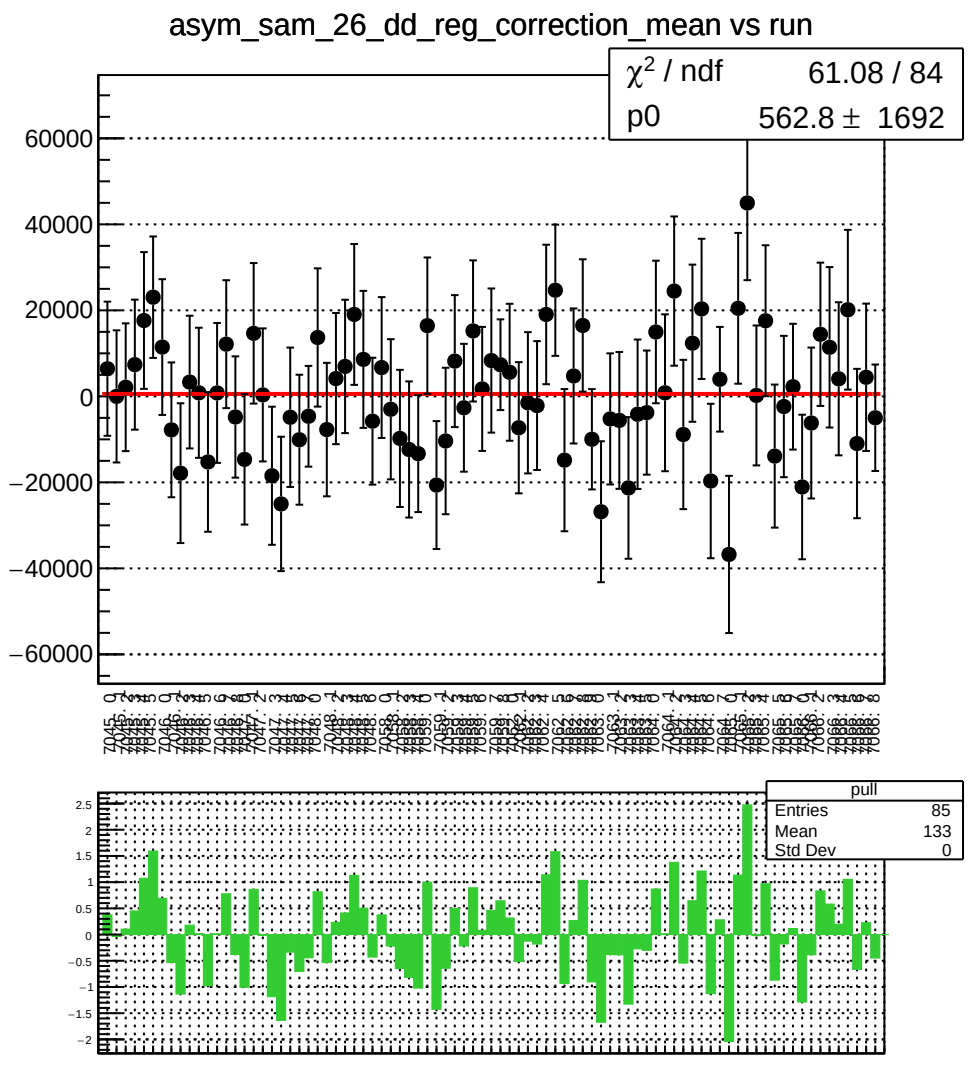

pull1D
Entries 85
Mean −0.02632
Std Dev 1.041

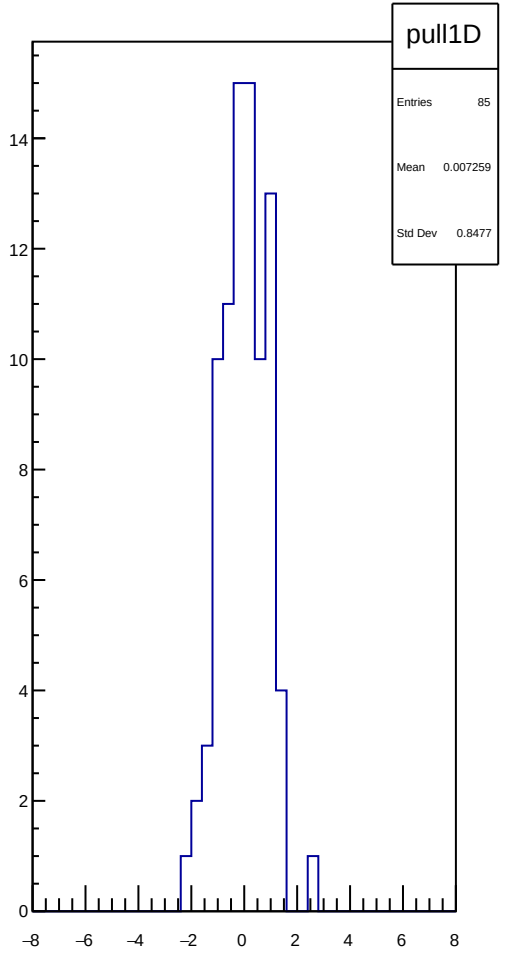

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.231e+05 / 84
p0 5.464e−12 ± 5.154e−15
40
35
30
25
20
15
10
5

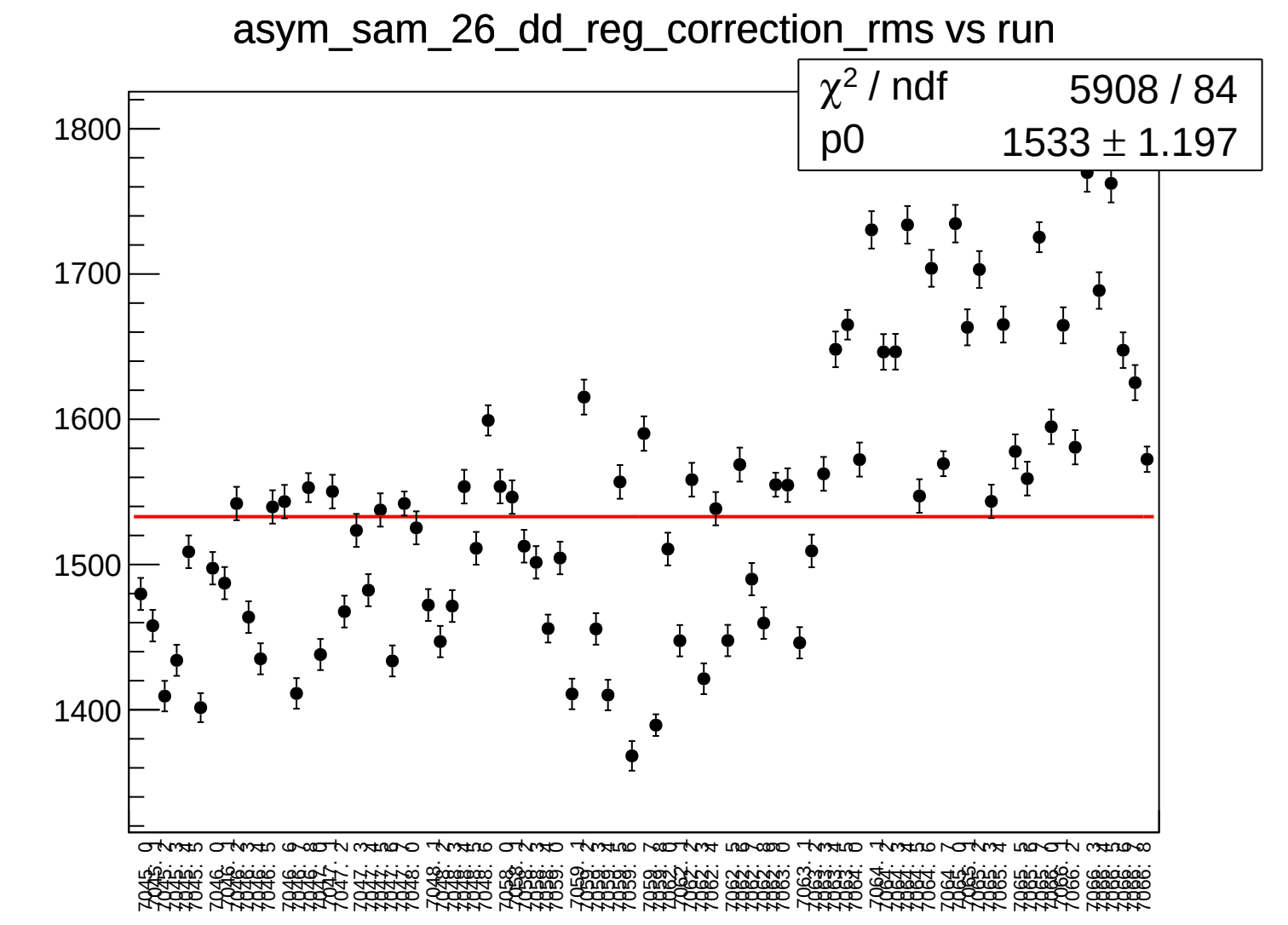

reg_asym_sam_26_dd_mean vs run
χ² / ndf 97.51 / 84
p0 −880.6 ± 232
pull
Entries 85
Mean −958.5
Std Dev 0

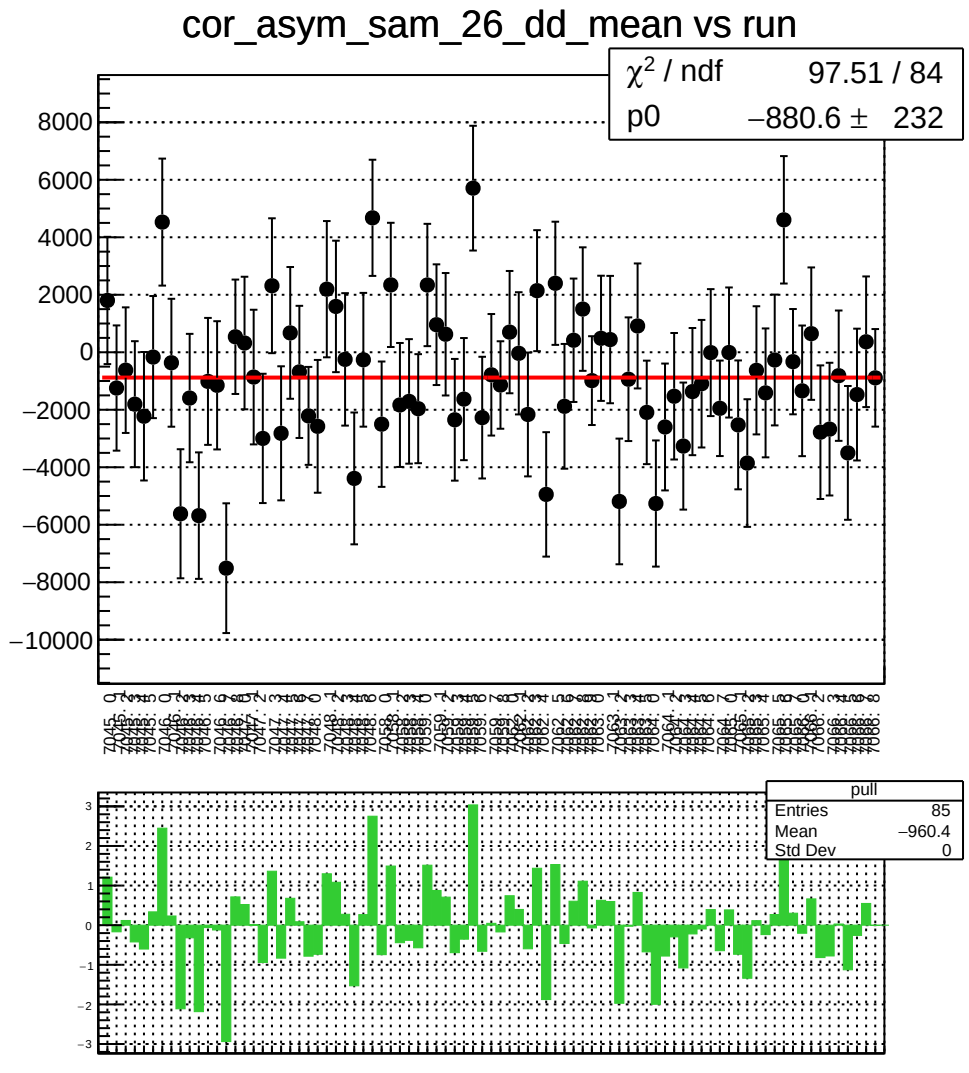

pull1D
Entries 85
Mean 0.0009024
Std Dev 1.071

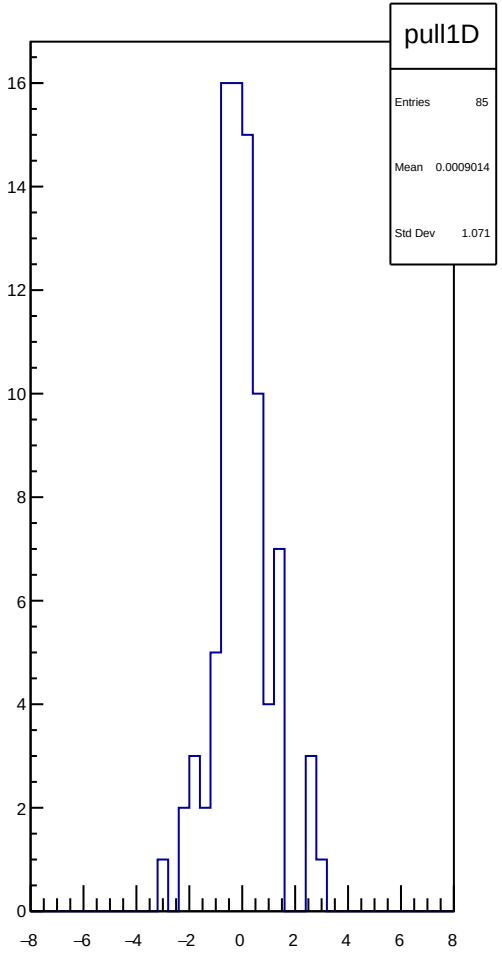

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1627 / 84
p0 210.5 ± 0.1641
225
220
215
210
205
200
195

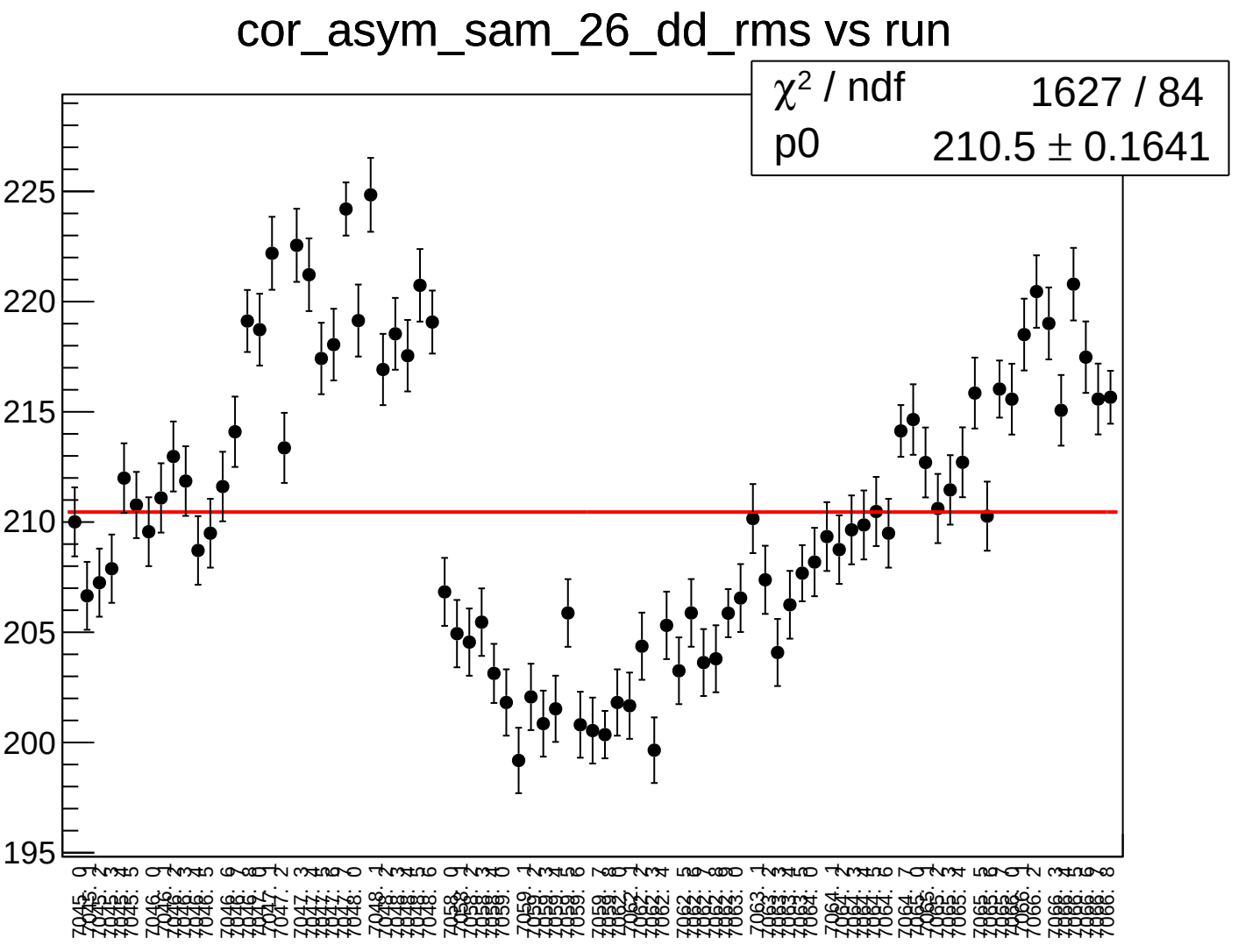

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 61.08 / 84
p0 562.8 ± 1692
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 133
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

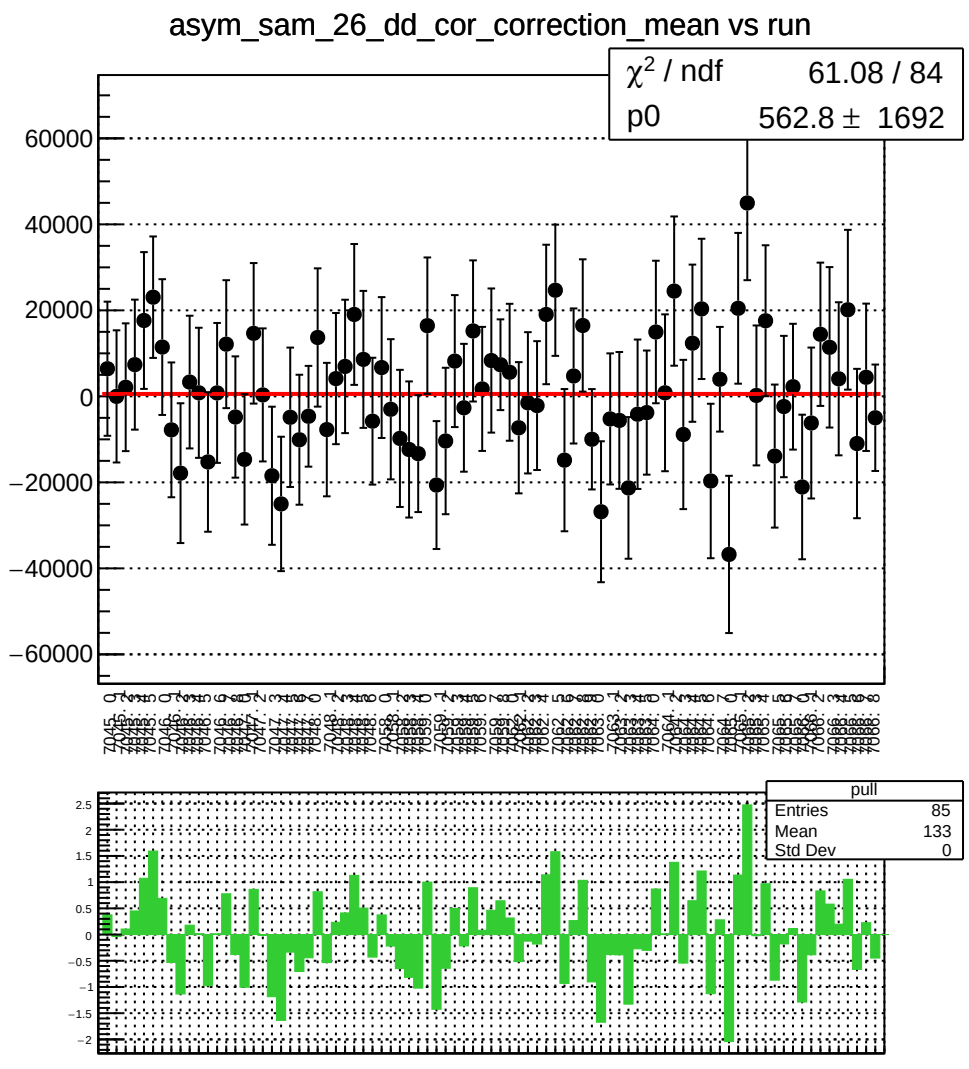

pull1D
Entries 85
Mean 0.007259
Std Dev 0.8477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

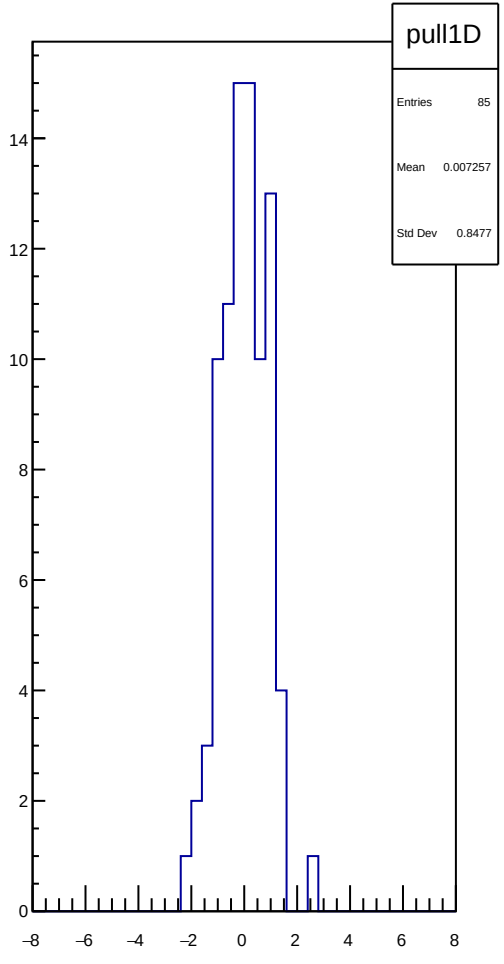

asym_sam_26_dd_reg_correction_rms vs run
χ^2 / ndf 5908 / 84
p0 1533 ± 1.197
1800
1700
1600
1500
1400

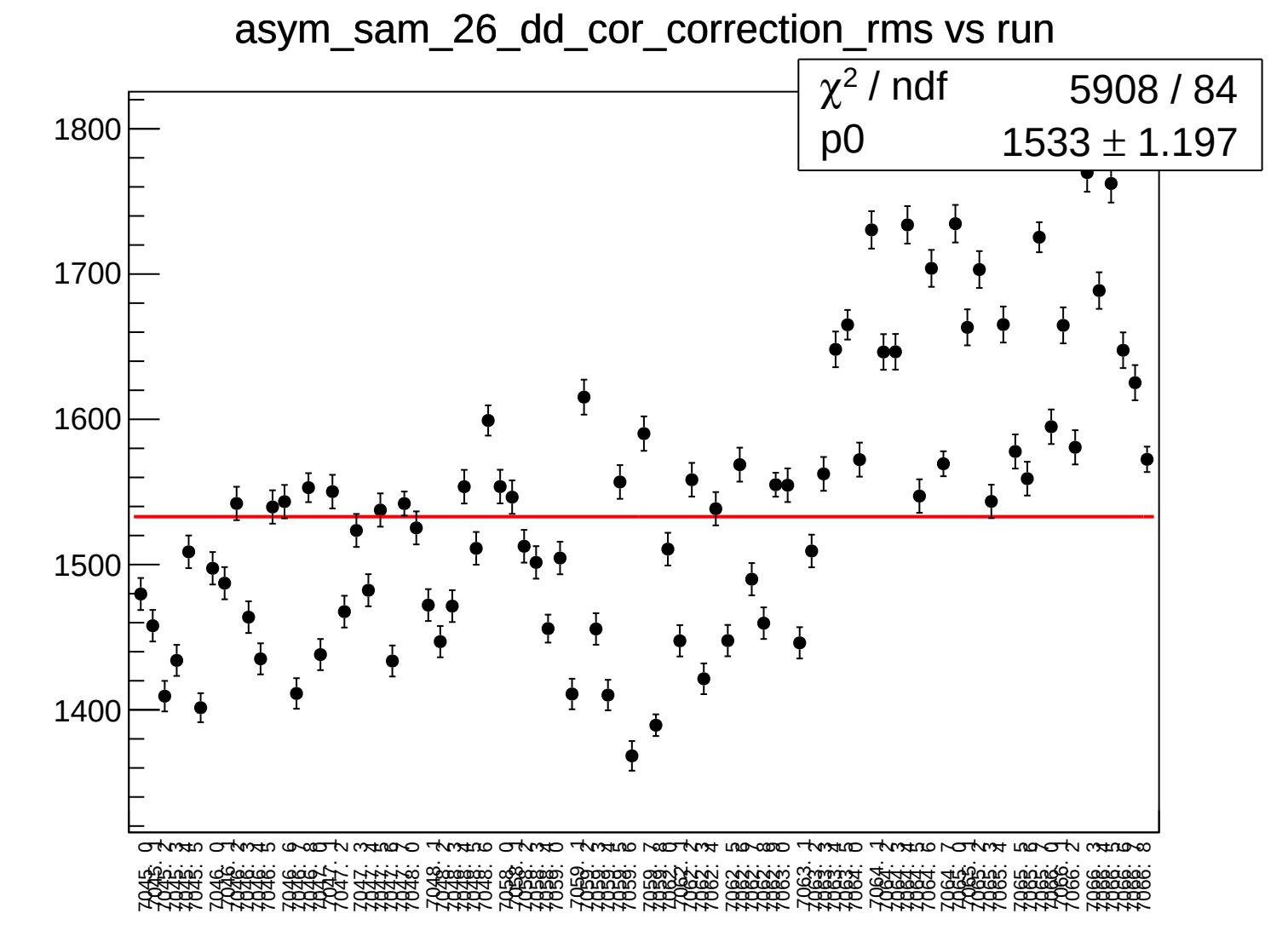

cor_asym_sam_26_dd_mean vs run
χ² / ndf 97.51 / 84
p0 −880.6 ± 232
pull
Entries 85
Mean −960.4
Std Dev 0

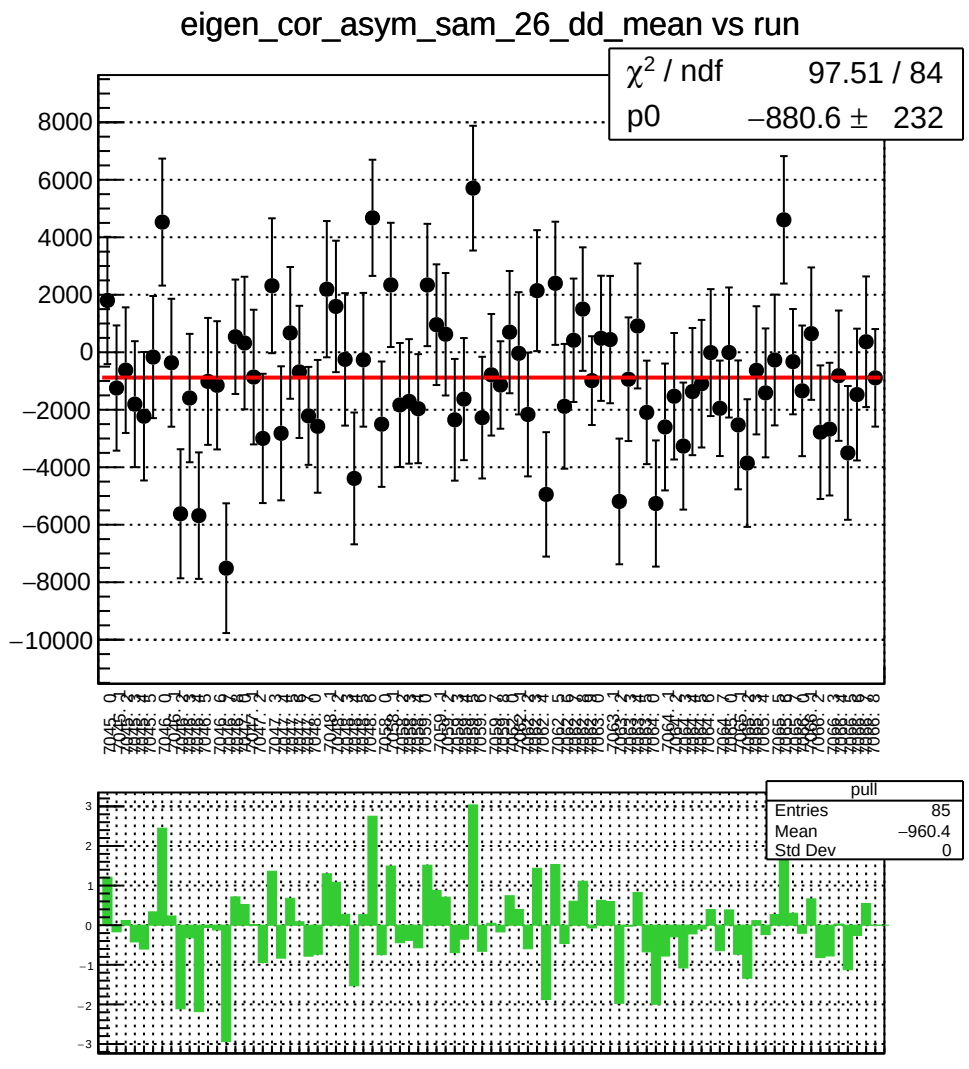

pull1D
Entries 85
Mean 0.0009014
Std Dev 1.071

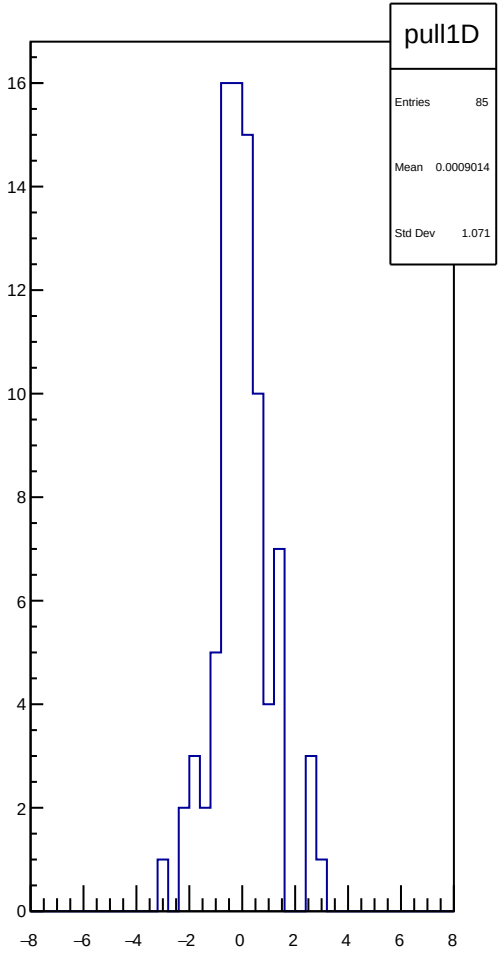

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1627 / 84
p0 210.5 ± 0.1641
225
220
215
210
205
200
195

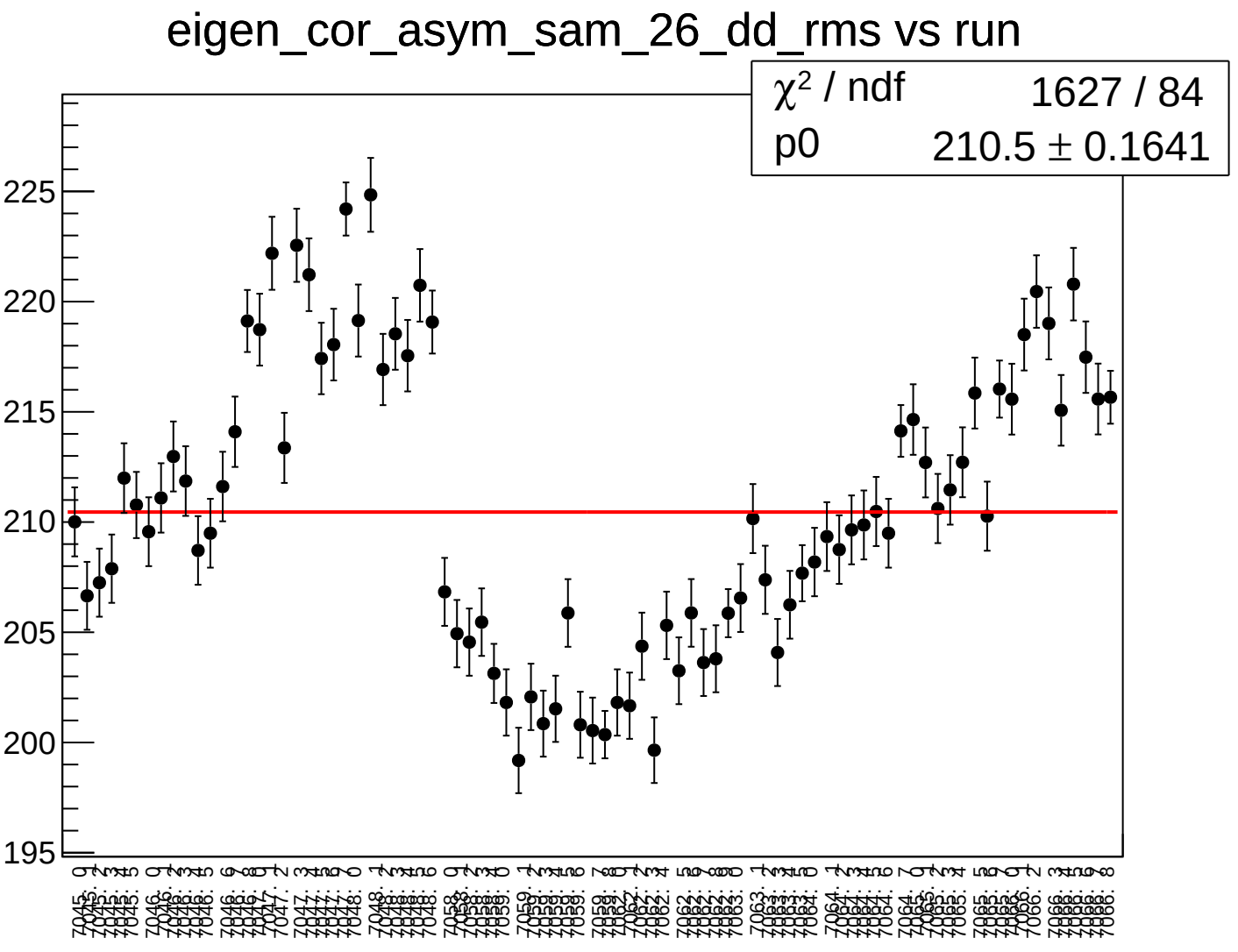

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 61.08 / 84
p0 562.8 ± 1692
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 133
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

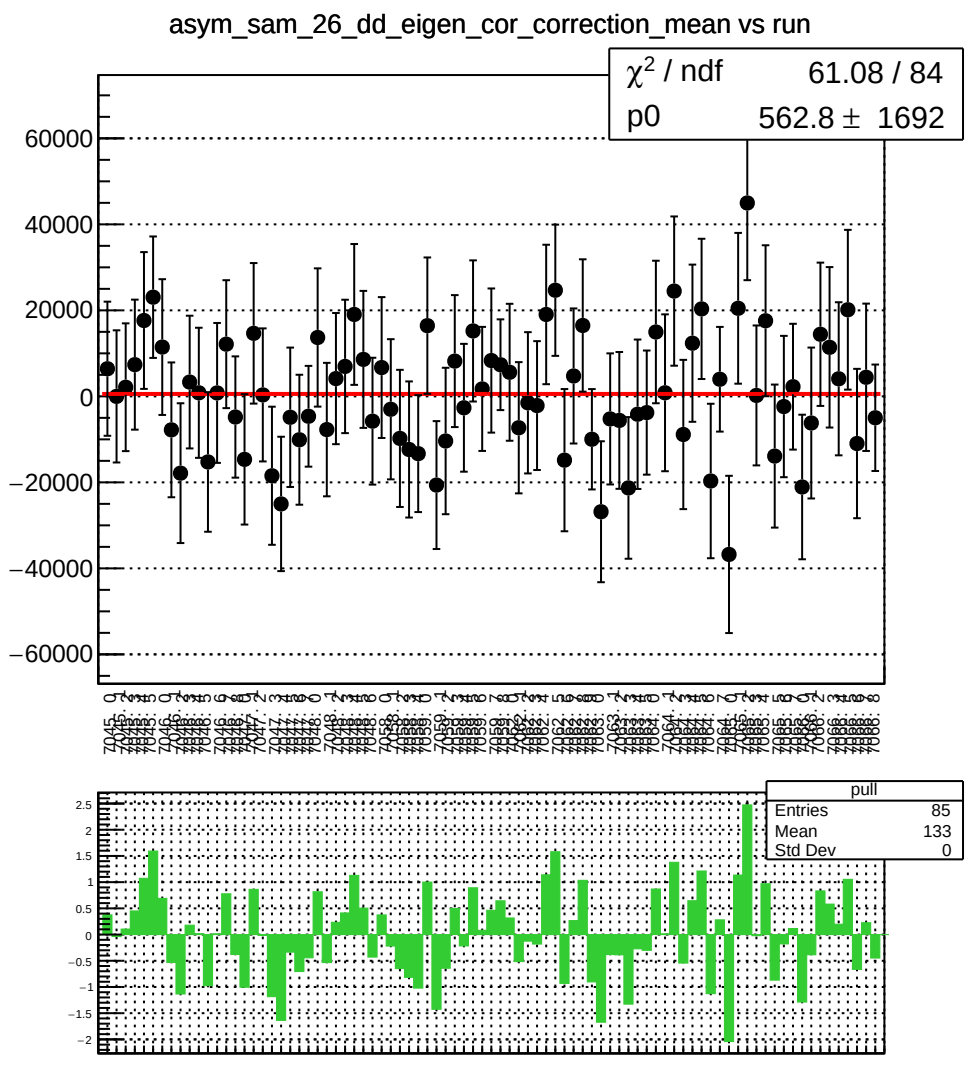

pull1D
Entries 85
Mean 0.007257
Std Dev 0.8477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

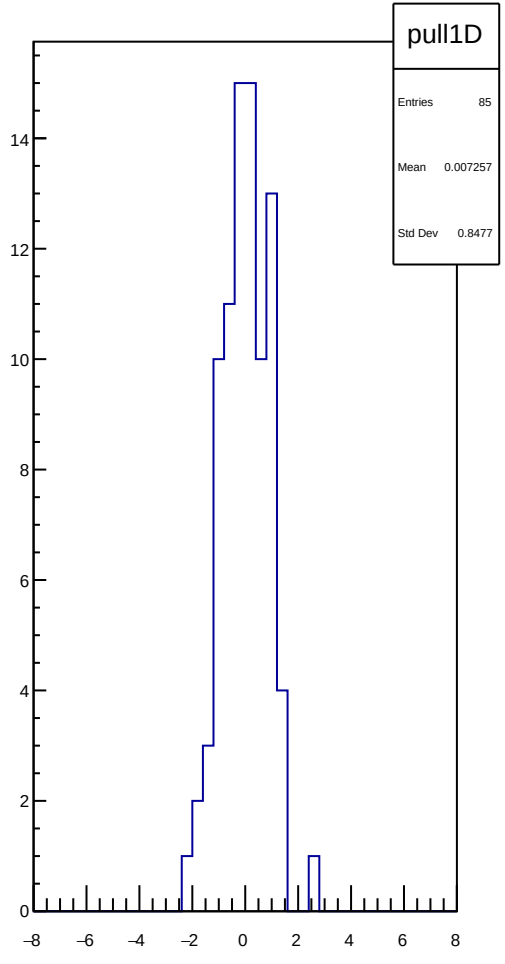

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5908 / 84
p0 1533 ± 1.197
1800
1700
1600
1500
1400

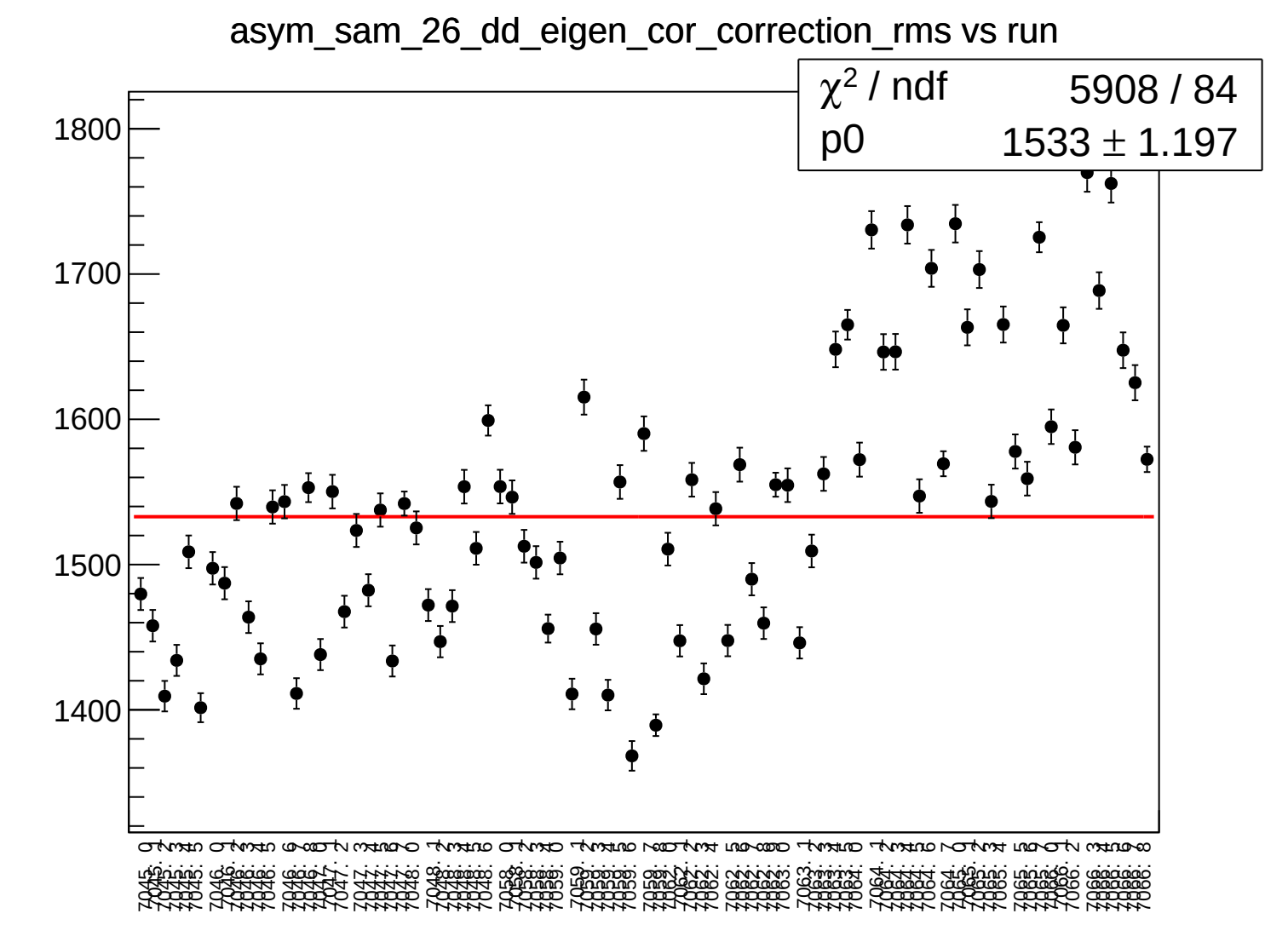

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 97.51 / 84
p0 −880.6 ± 232
pull
Entries 85
Mean −960.4
Std Dev 0

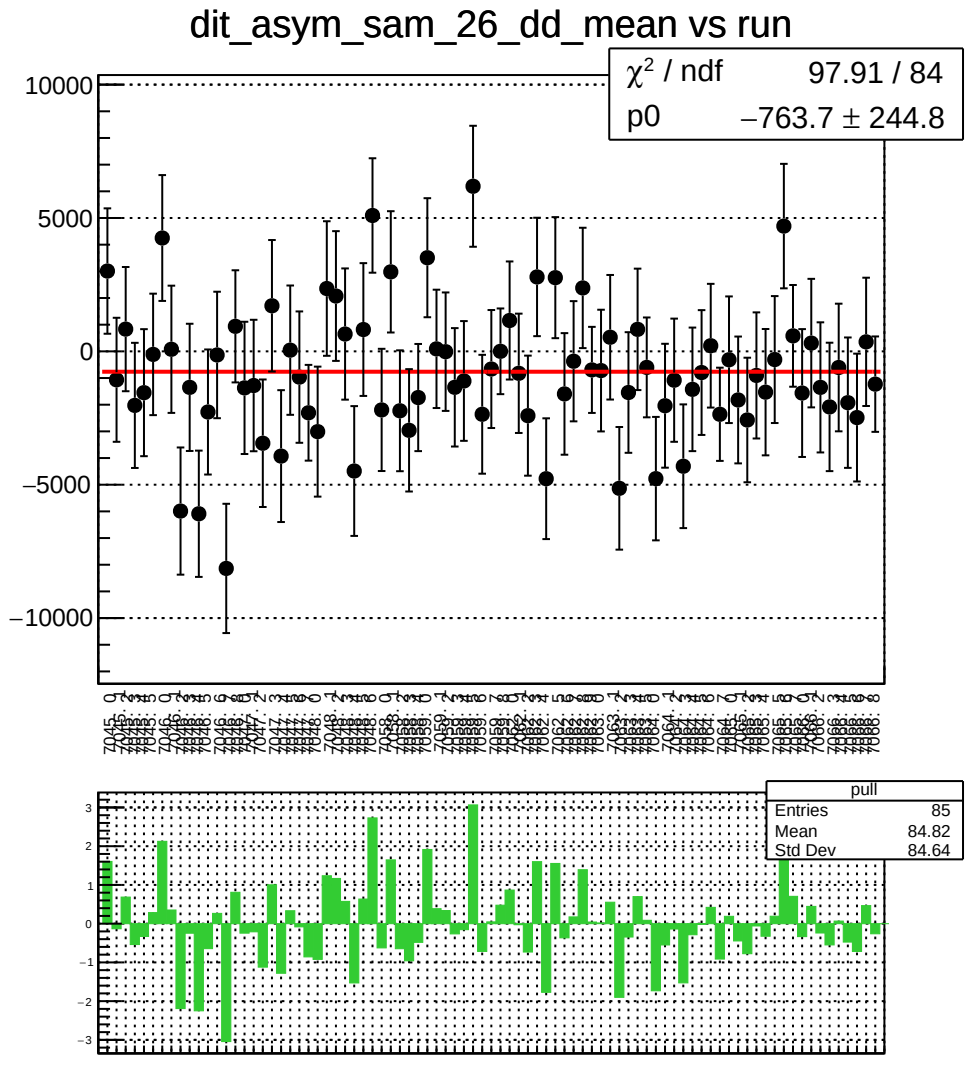

pull1D
Entries 85
Mean 0.0009014
Std Dev 1.071

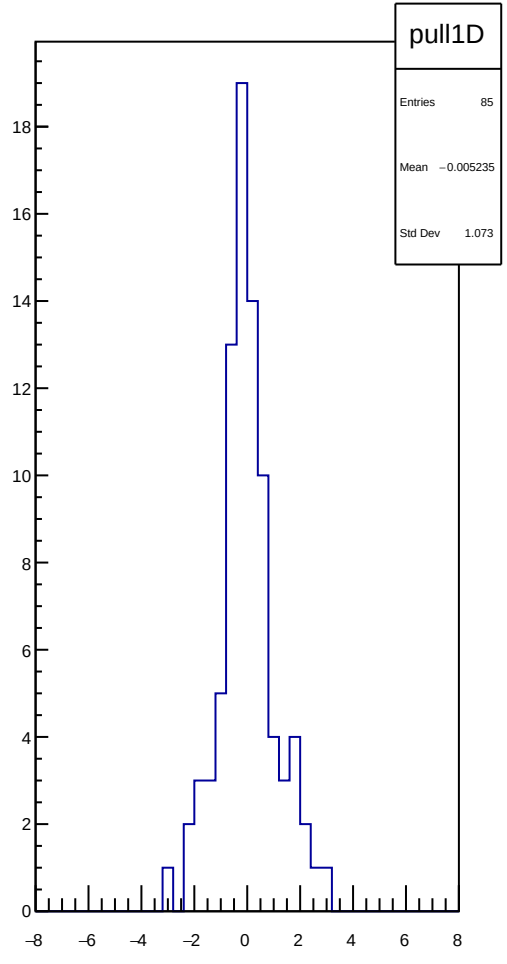

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1627 / 84
p0 210.5 ± 0.1641
225
220
215
210
205
200
195

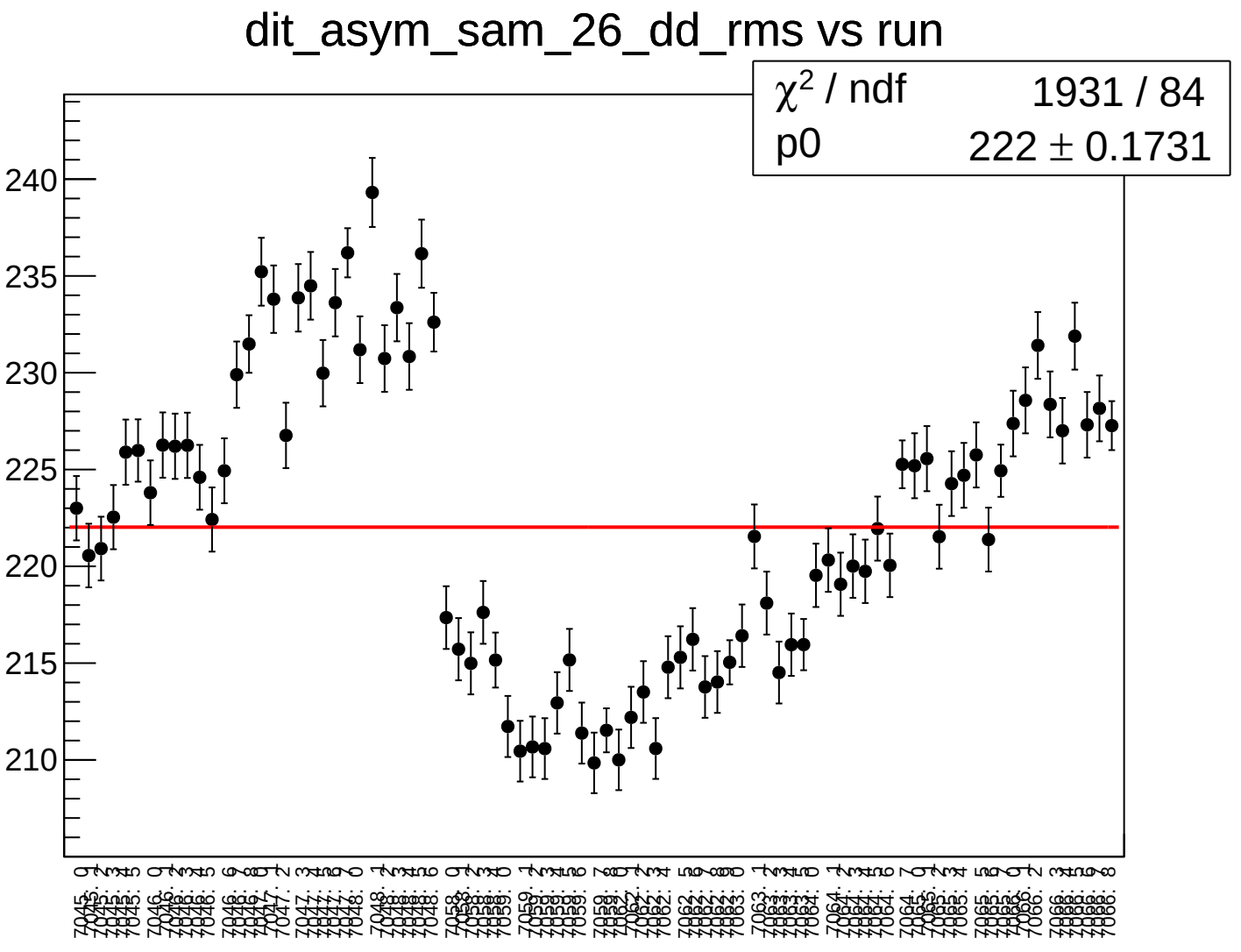

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.08 / 84
p0 562.8 ± 1692
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 133
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

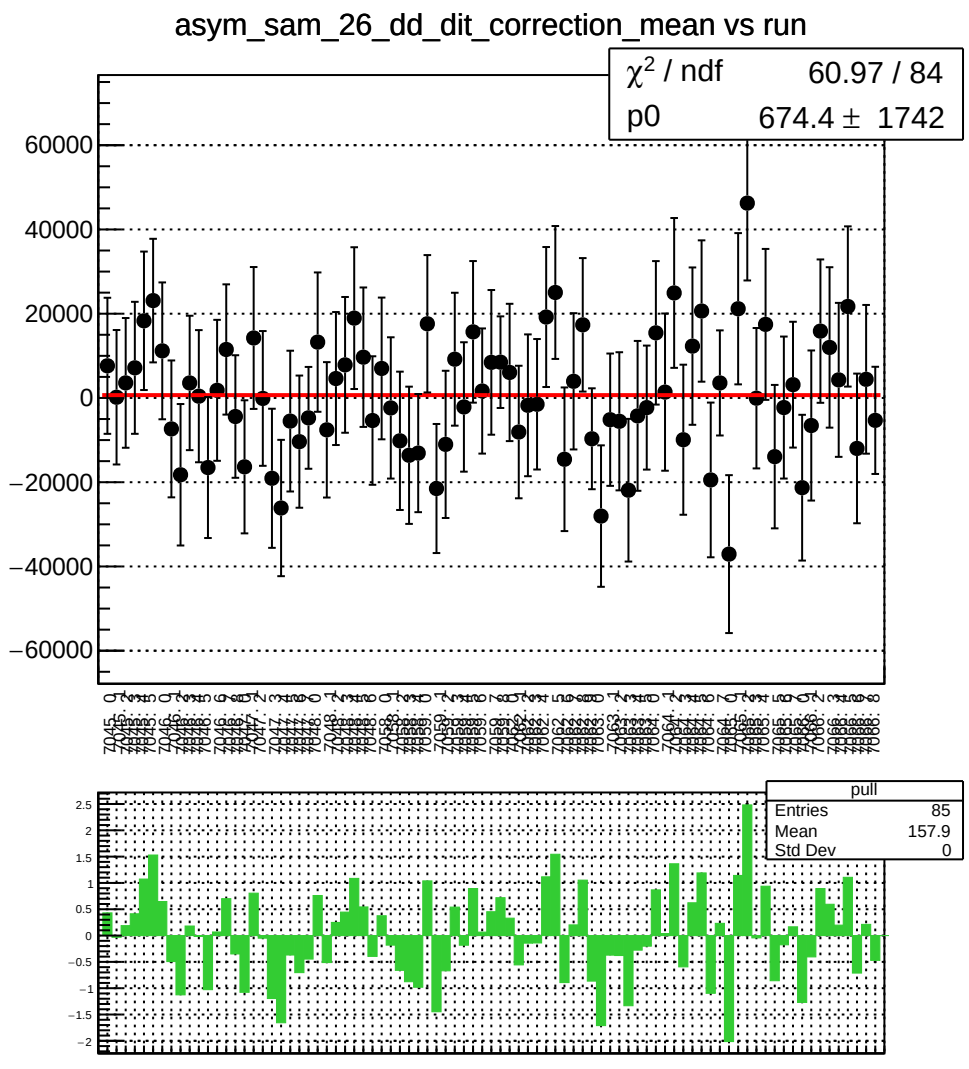

pull1D
Entries 85
Mean 0.007257
Std Dev 0.8477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

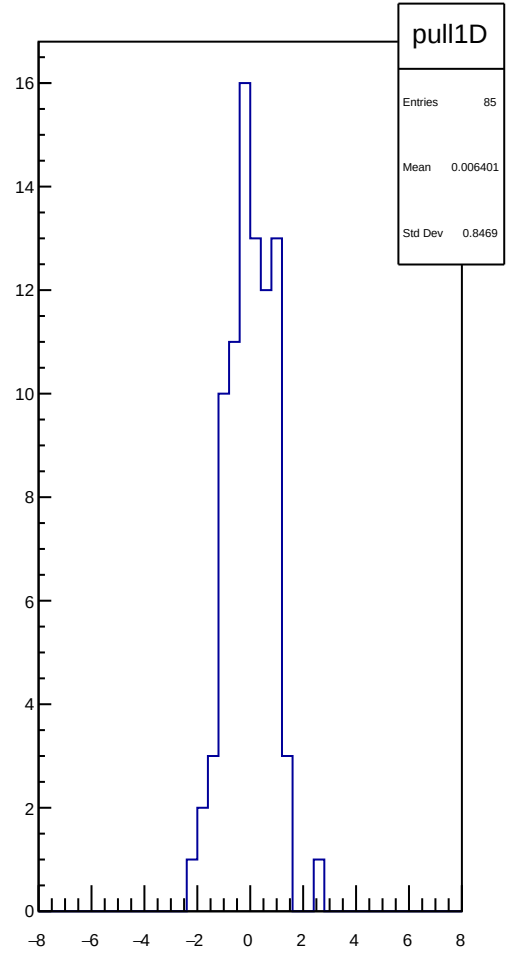

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5908 / 84
p0 1533 ± 1.197
1800
1700
1600
1500
1400

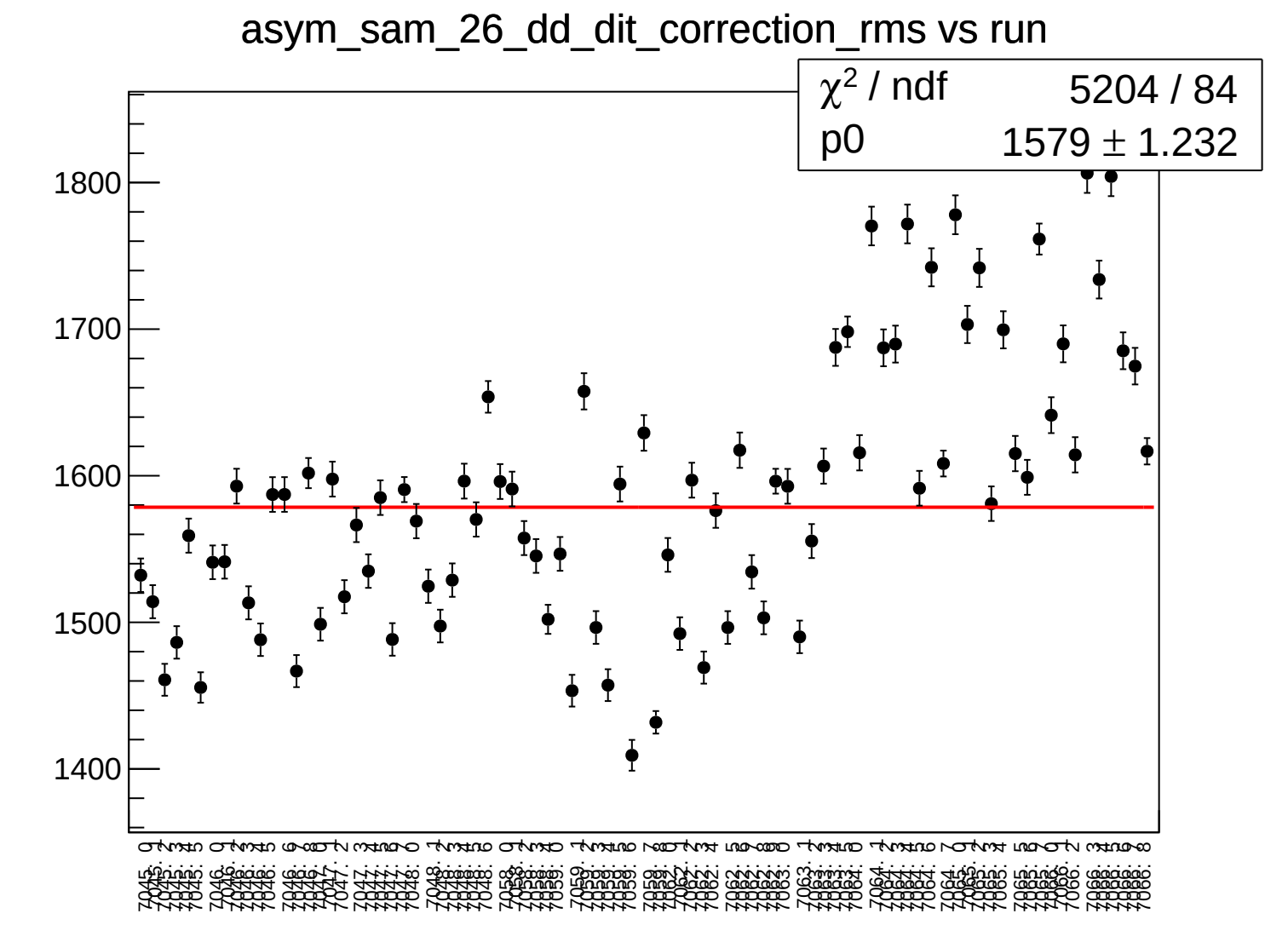

dit_asym_sam_26_dd_mean vs run
χ² / ndf 97.91 / 84
p0 −763.7 ± 244.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 84.82
Std Dev 84.64
3
2
1
0
−1
−2
−3

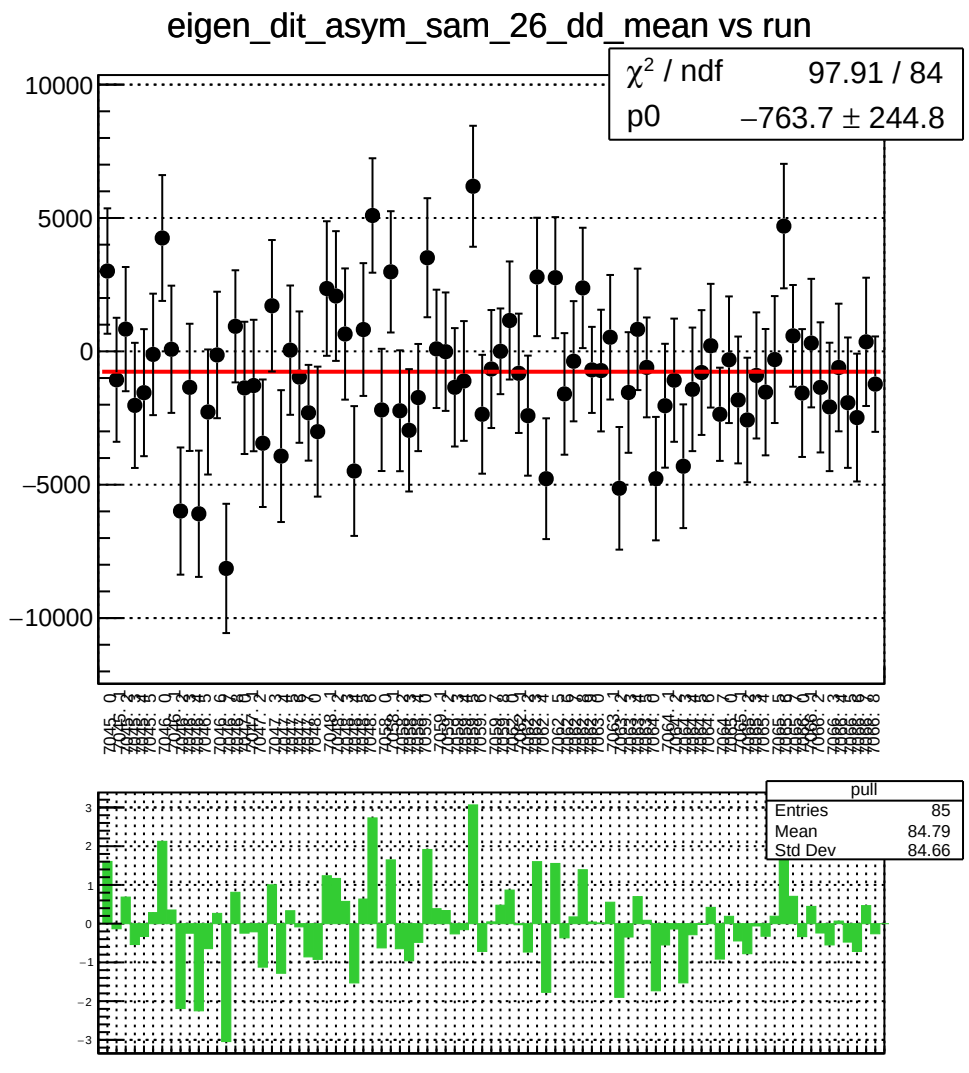

pull1D
Entries 85
Mean −0.005235
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

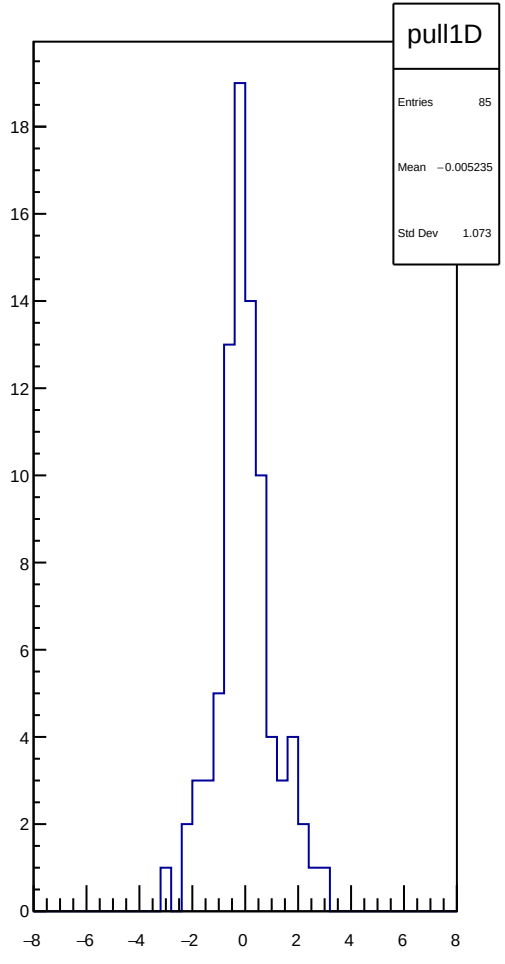

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1931 / 84
p0 222 ± 0.1731
240
235
230
225
220
215
210

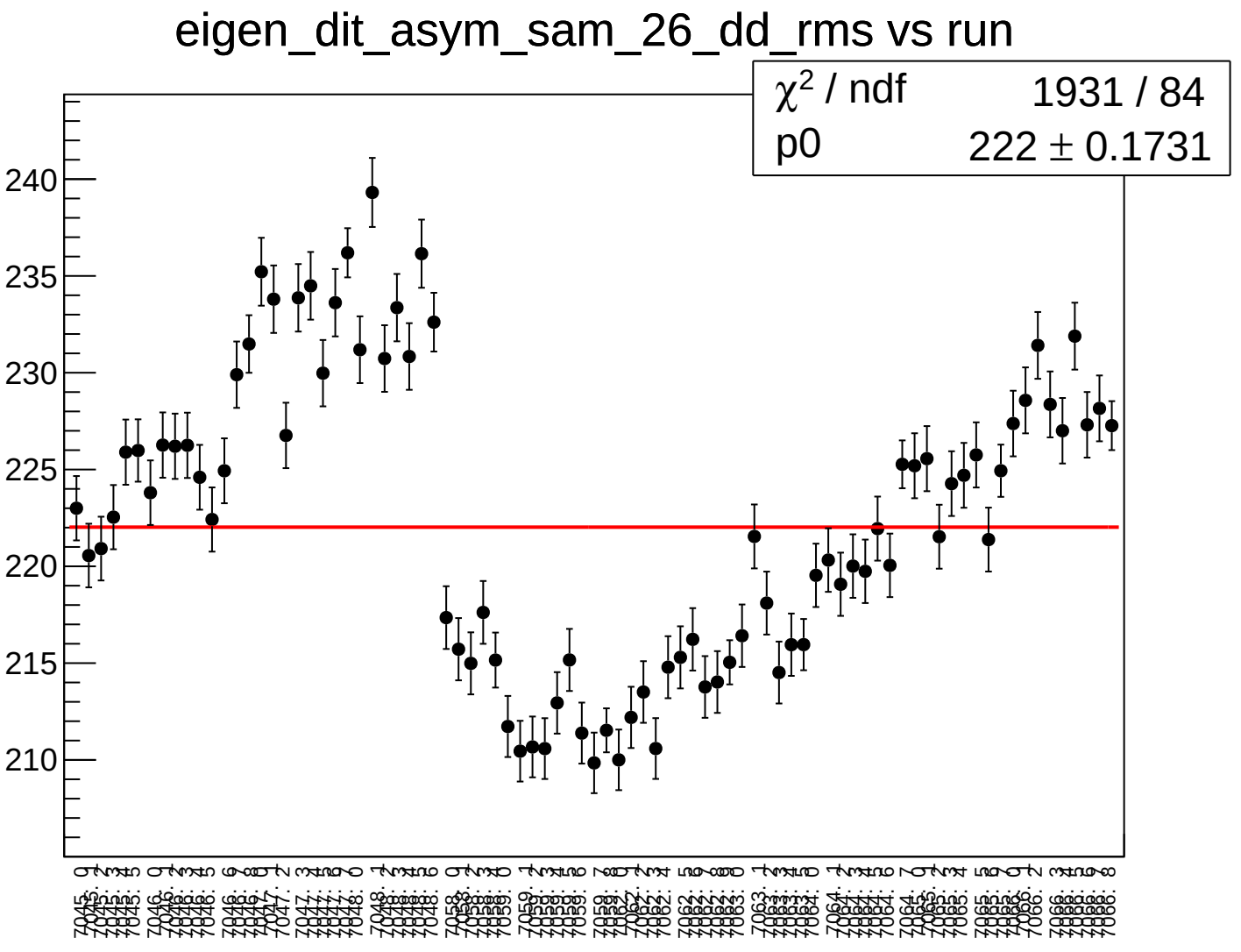

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 60.97 / 84
p0 674.4 ± 1742
pull
Entries 85
Mean 157.9
Std Dev 0

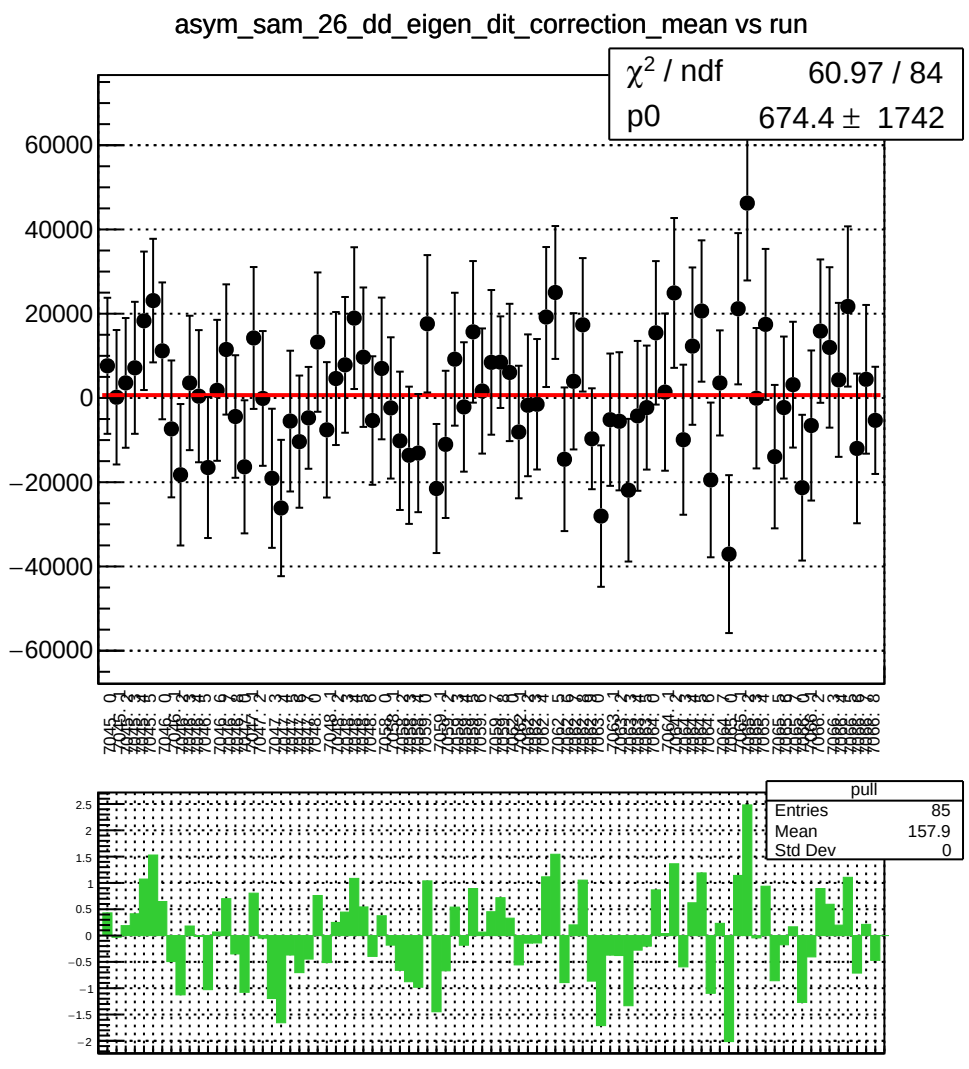

pull1D
Entries 85
Mean 0.006401
Std Dev 0.8469

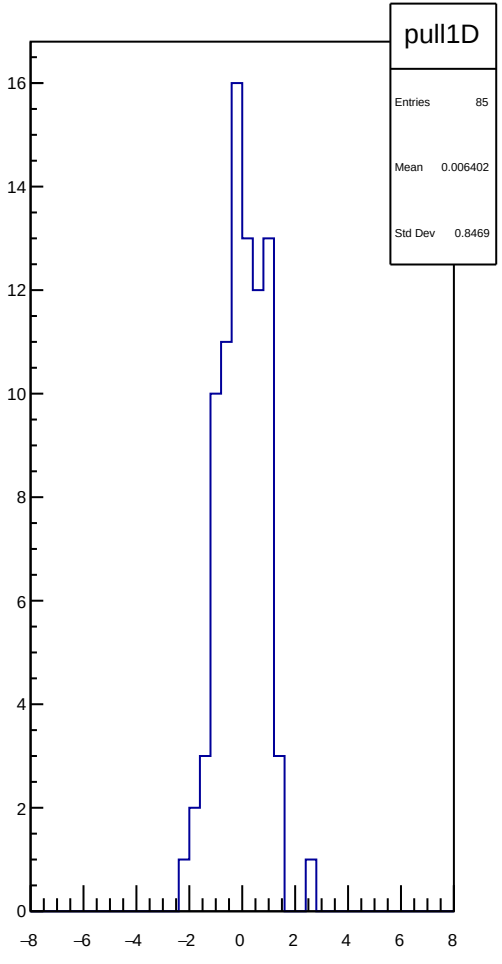

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 5204 / 84
p0 1579 ± 1.232
1800
1700
1600
1500
1400

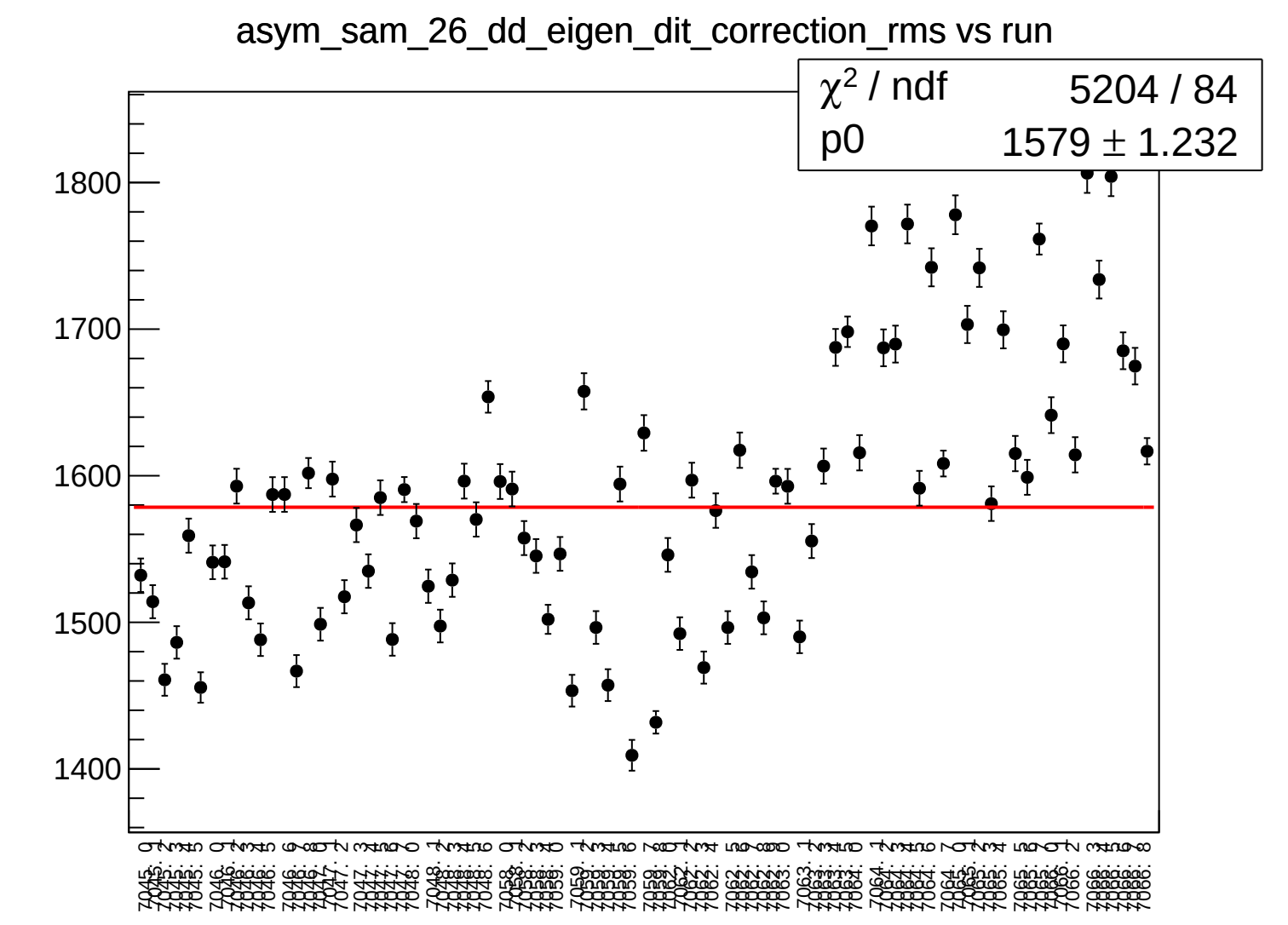

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 97.91 / 84
p0 −763.7 ± 244.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 84.79
Std Dev 84.66
3
2
1
0
−1
−2
−3

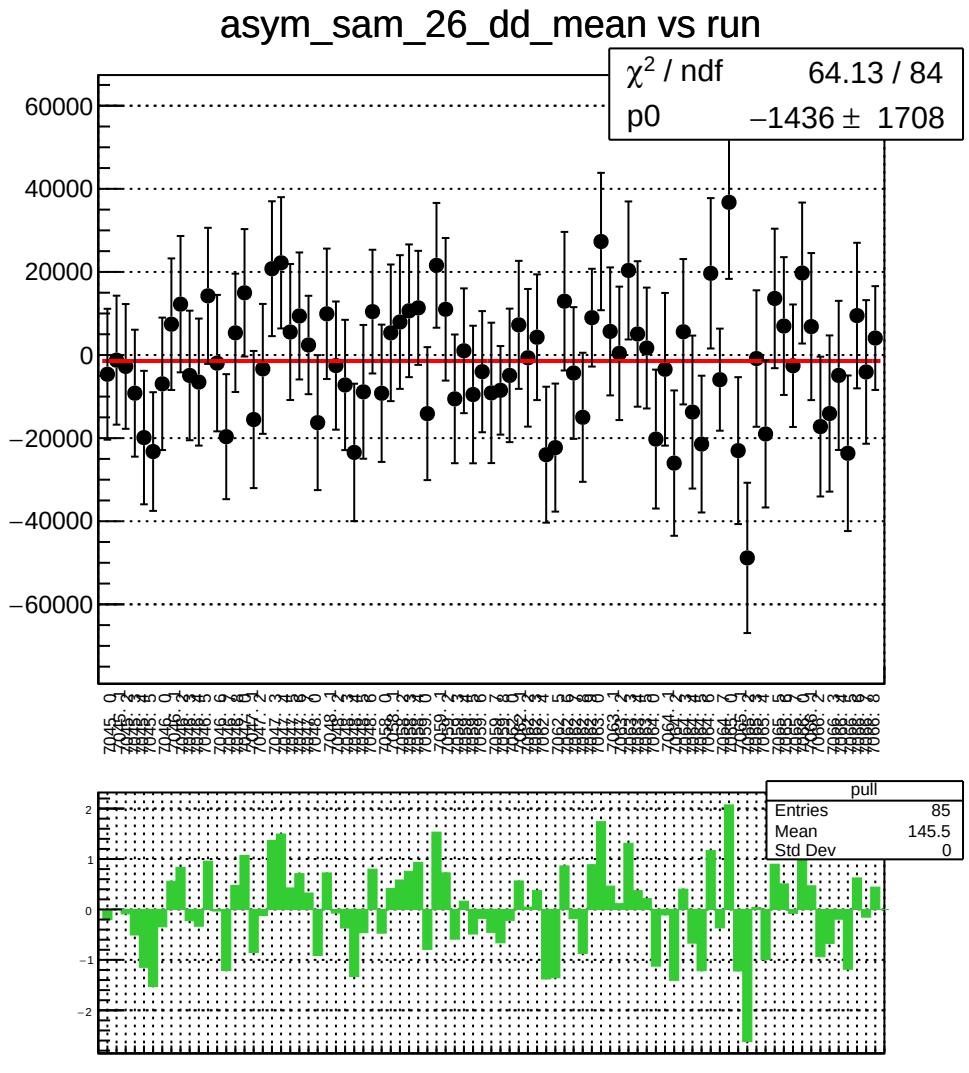

pull1D
Entries 85
Mean −0.005235
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

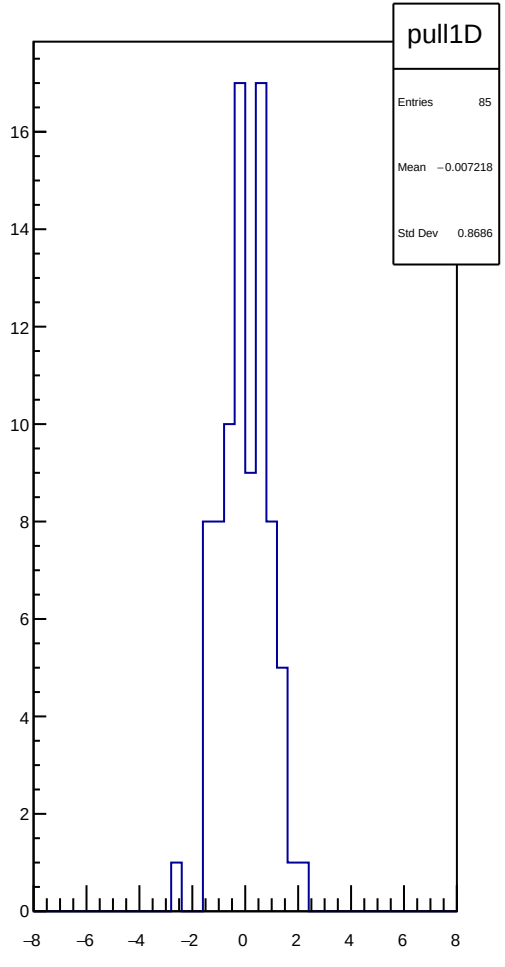

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1931 / 84
p0 222 ± 0.1731
240
235
230
225
220
215
210

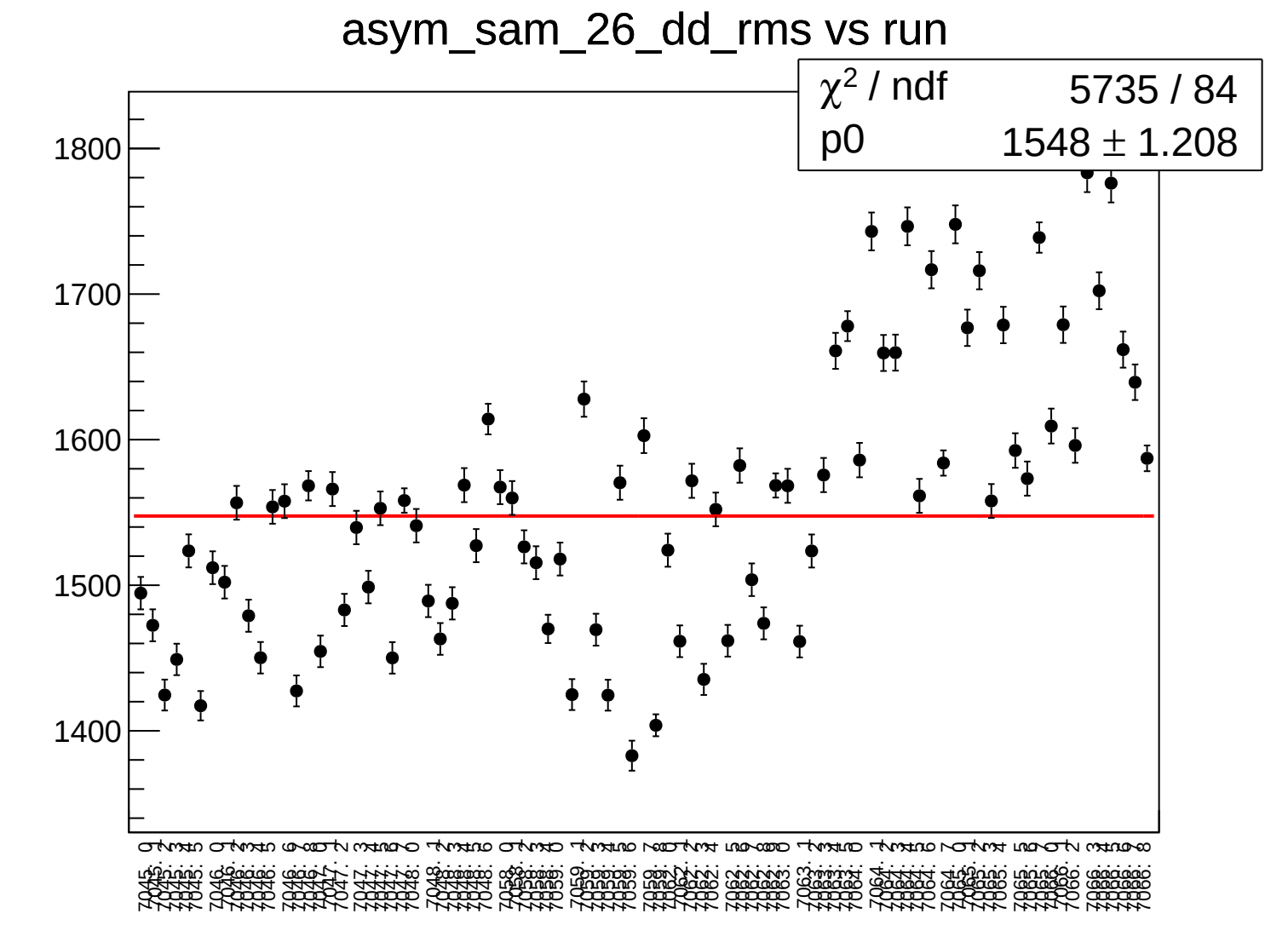

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 60.97 / 84
p0 674.4 ± 1742
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 157.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

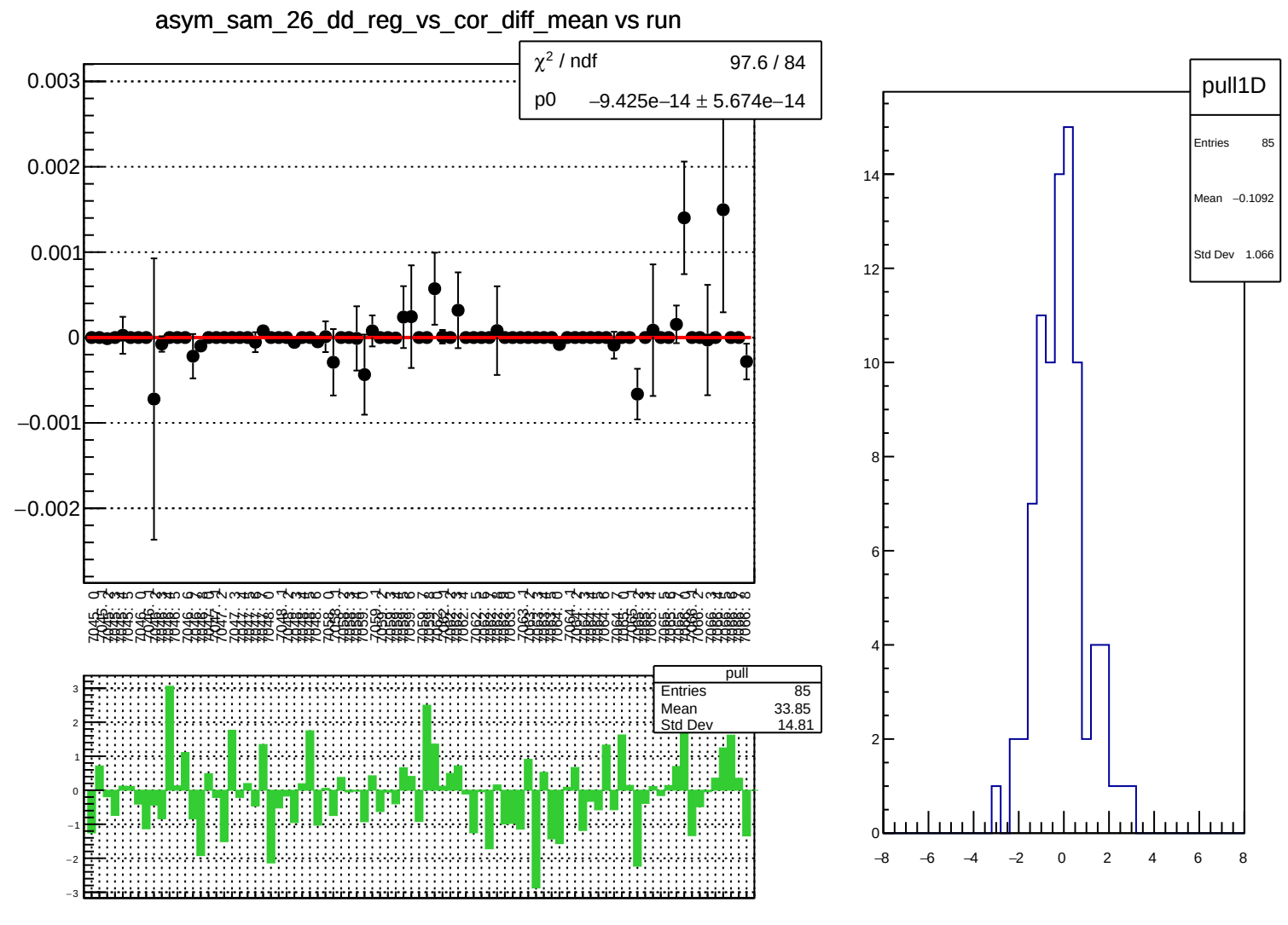

pull1D
Entries 85
Mean 0.006402
Std Dev 0.8469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

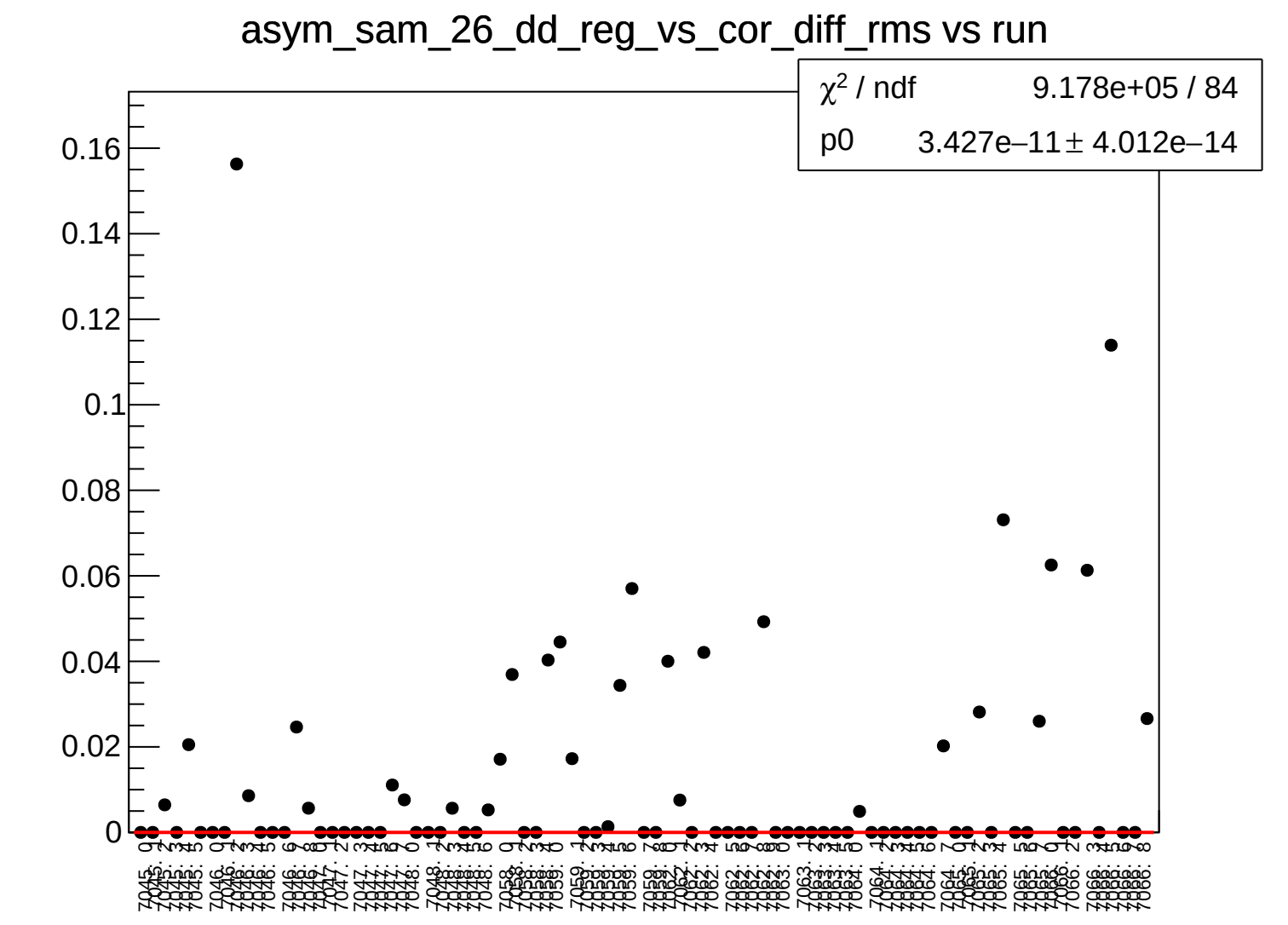

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5204 / 84
p0 1579 ± 1.232
1800
1700
1600
1500
1400

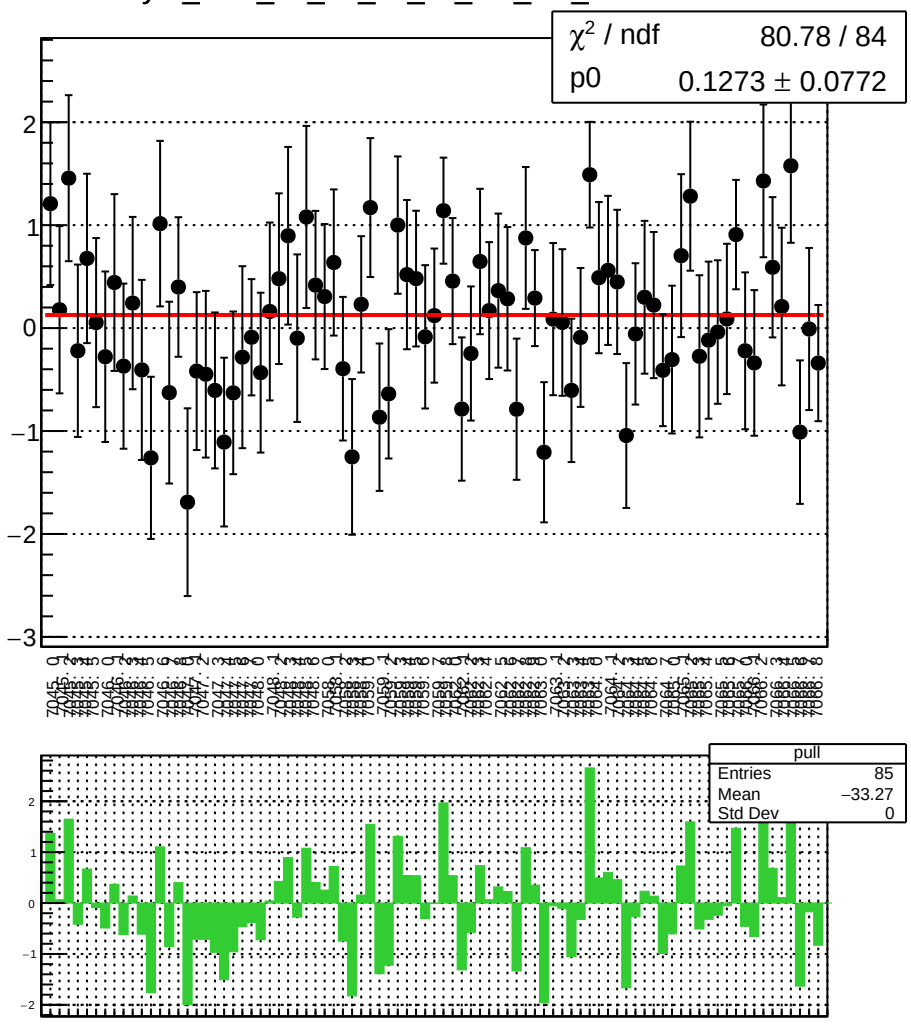

asym_sam_26_dd_mean vs run
χ² / ndf 64.13 / 84
p0 −1436 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 145.5
Std Dev 0
2
1
0
−1
−2

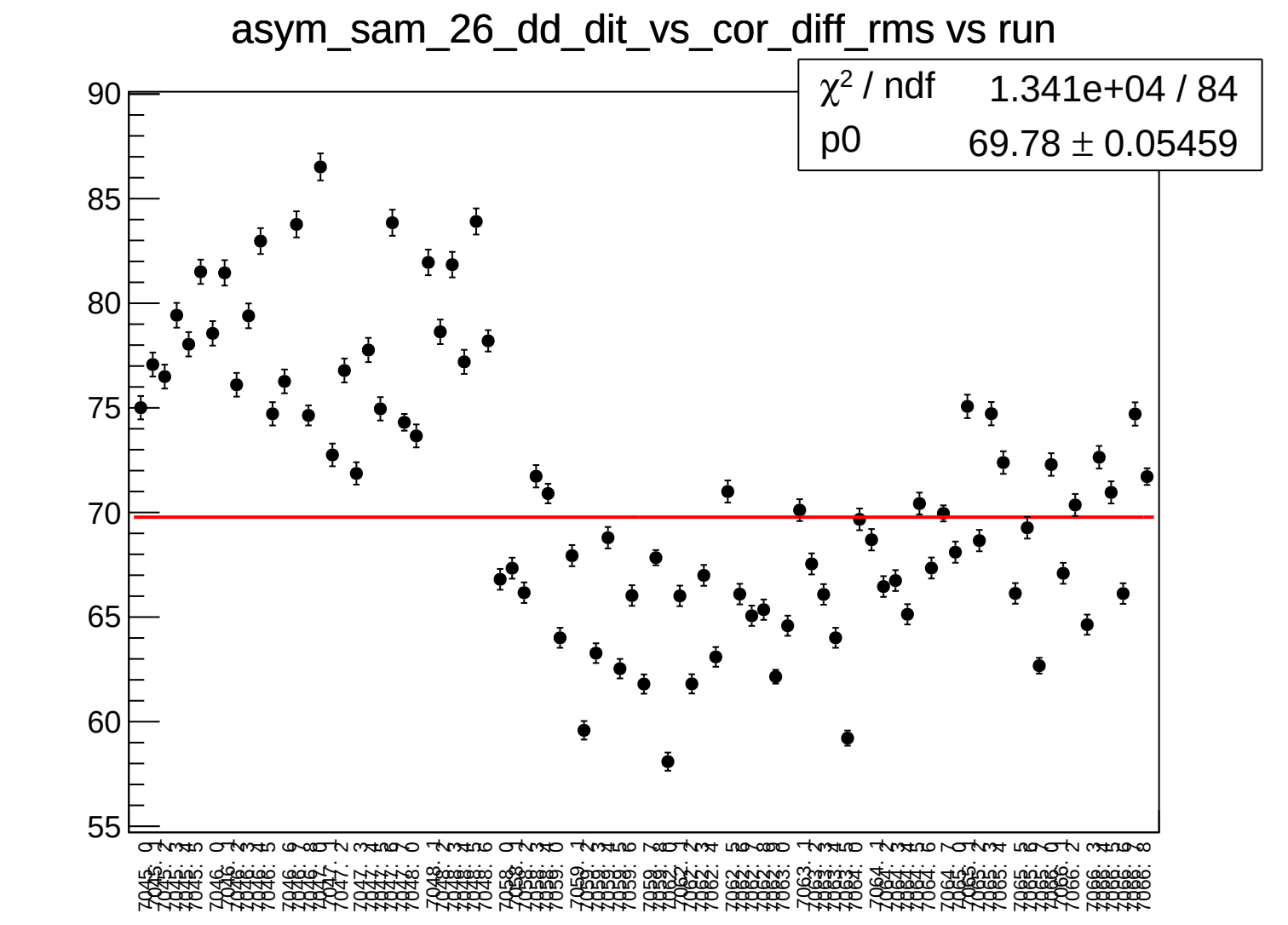

pull1D
Entries 85
Mean −0.007218
Std Dev 0.8686
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

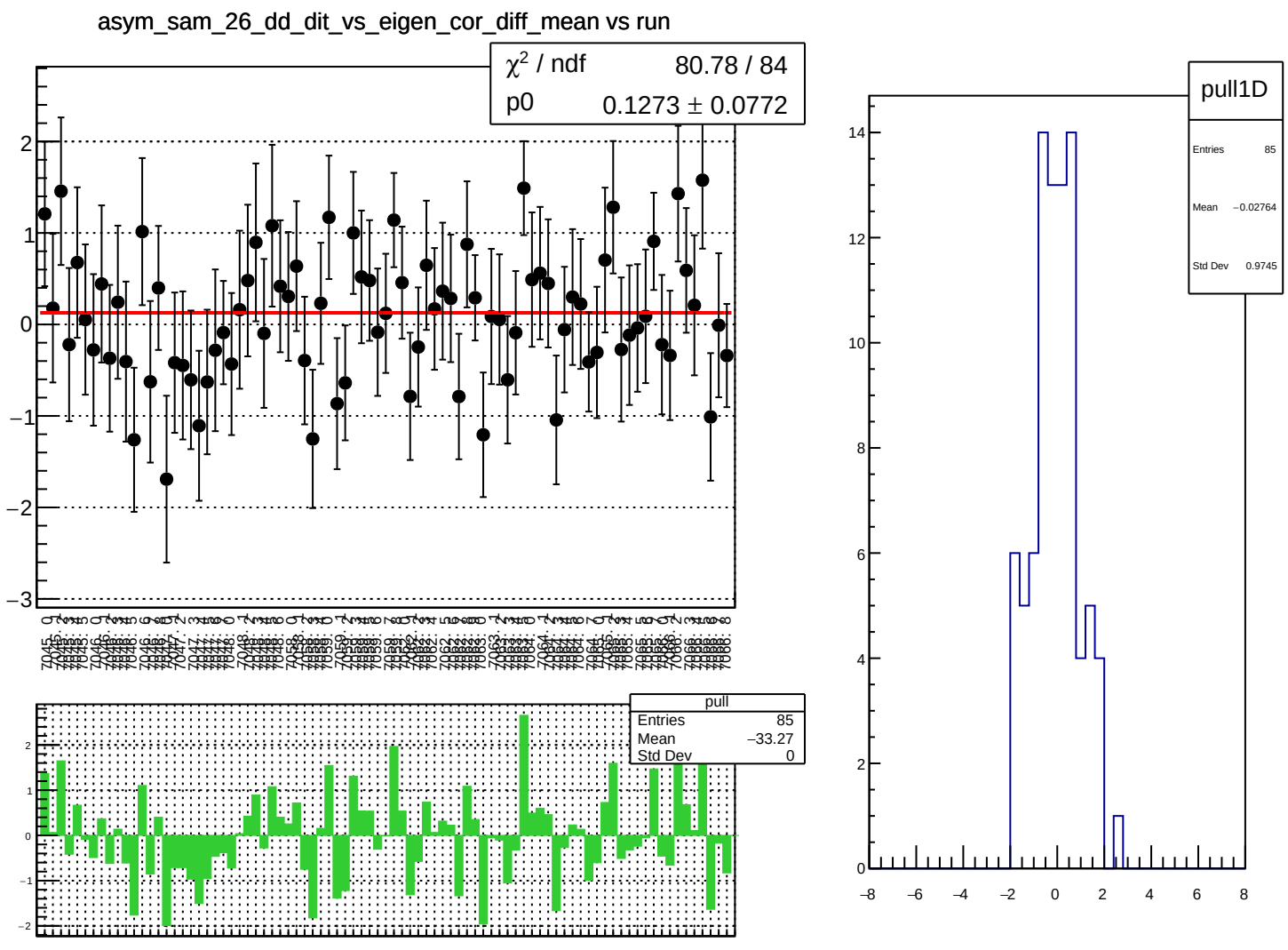

asym_sam_26_dd_rms vs run
χ² / ndf 5735 / 84
p0 1548 ± 1.208
1800
1700
1600
1500
1400

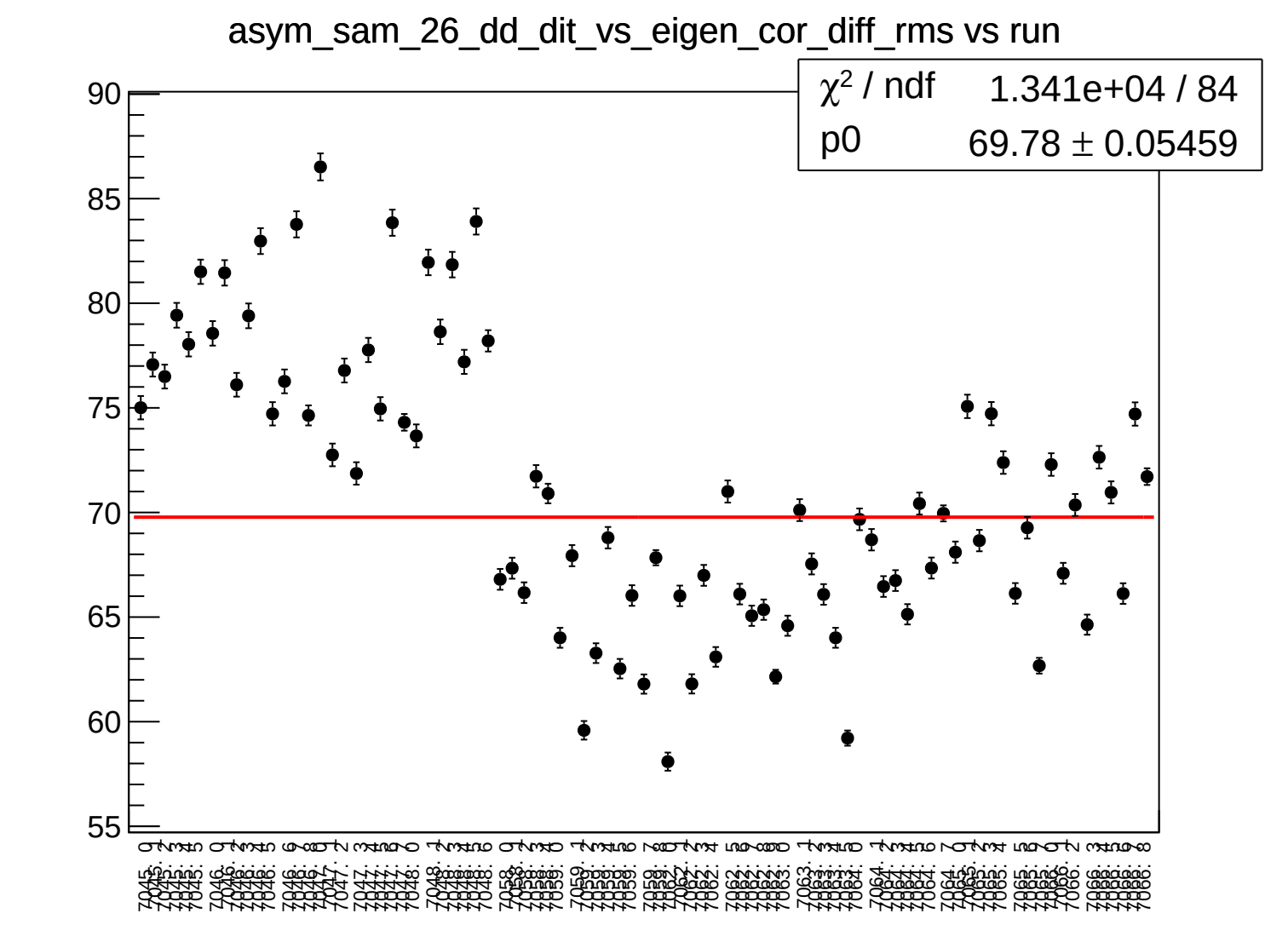

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.6 / 84
p0 −9.425e−14 ± 5.674e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 85
Mean 33.85
Std Dev 14.81
pull1D
Entries 85
Mean −0.1092
Std Dev 1.066

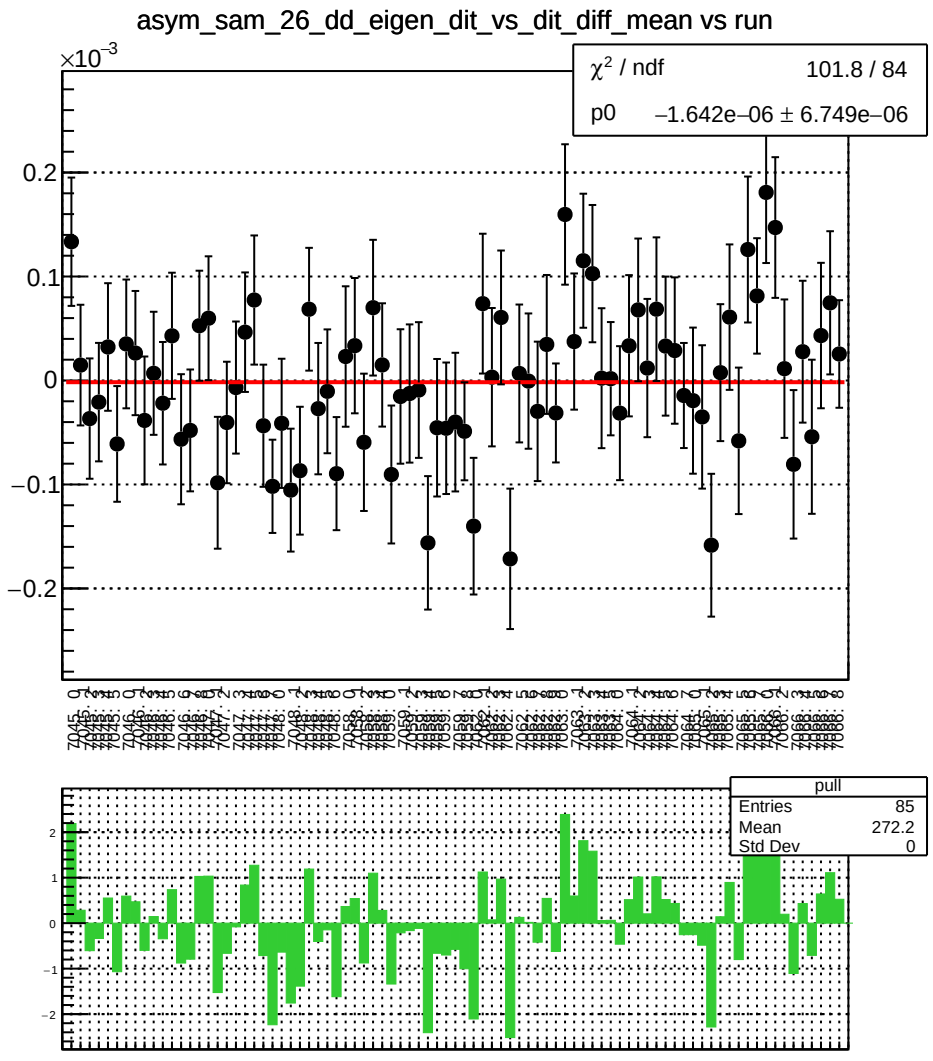

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.178e+05 / 84
p0 3.427e−11 ± 4.012e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

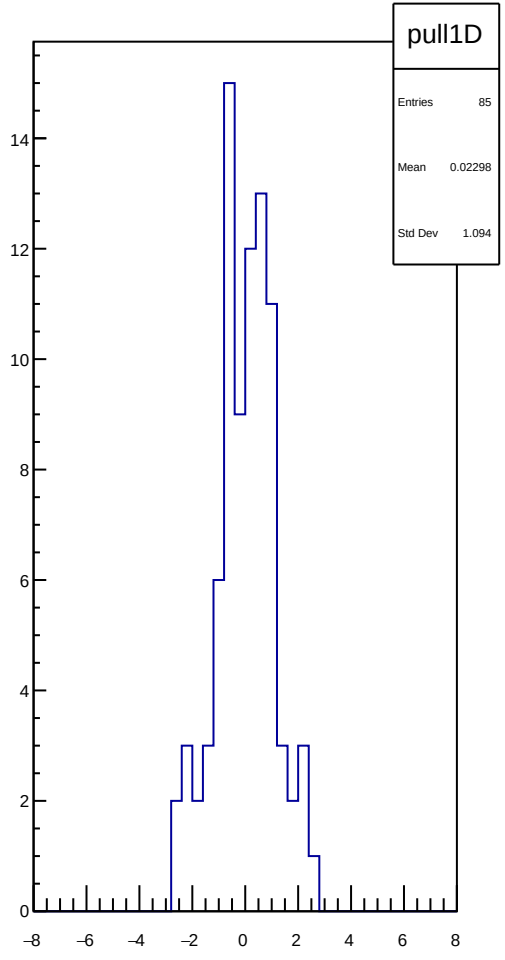

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.78 / 84
p0 0.1273 ± 0.0772
pull
Entries 85
Mean −33.27
Std Dev 0
pull1D
Entries 85
Mean −0.02764
Std Dev 0.9745

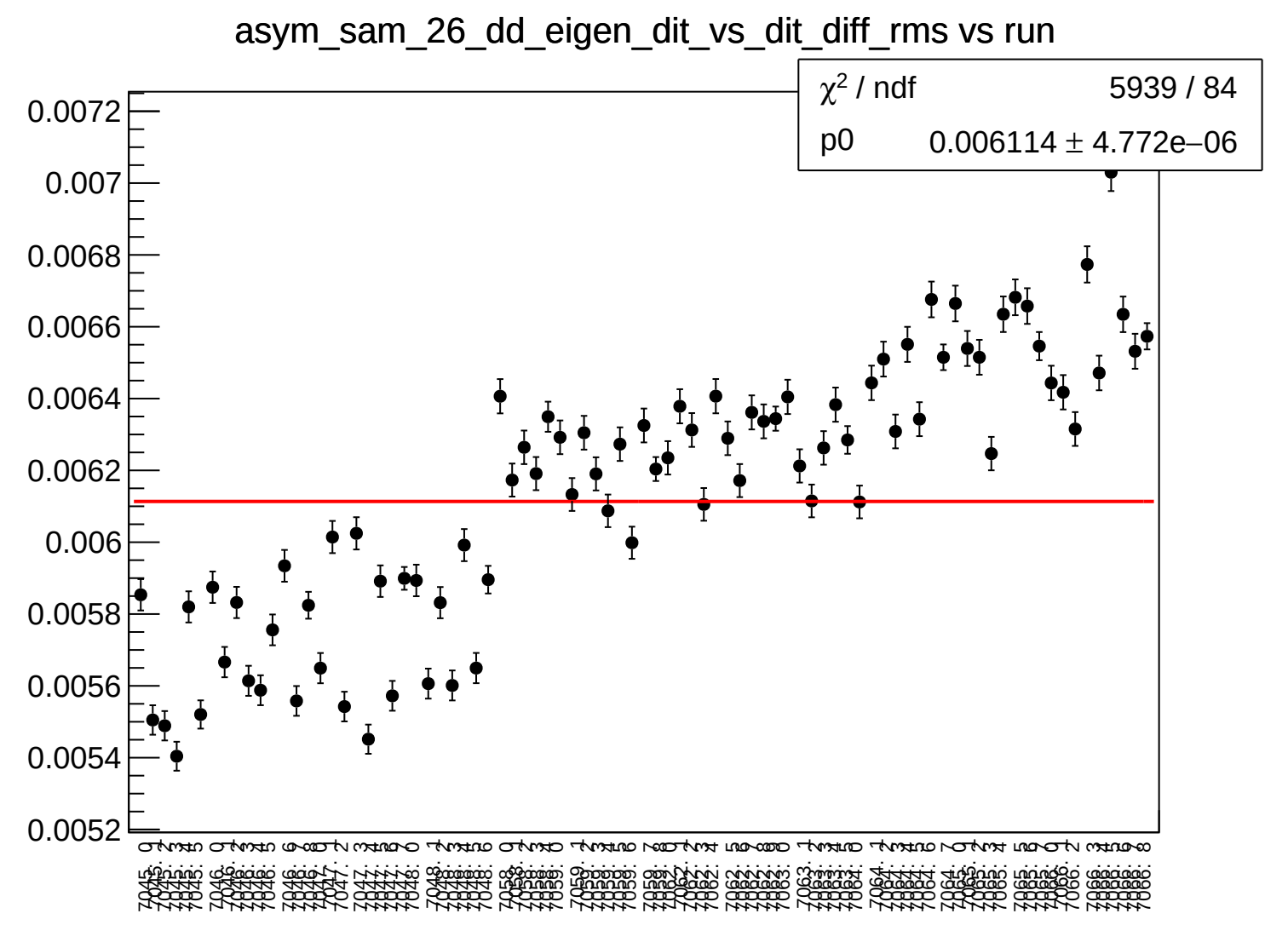

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.341e+04 / 84
p0 69.78 ± 0.05459
90
85
80
75
70
65
60
55

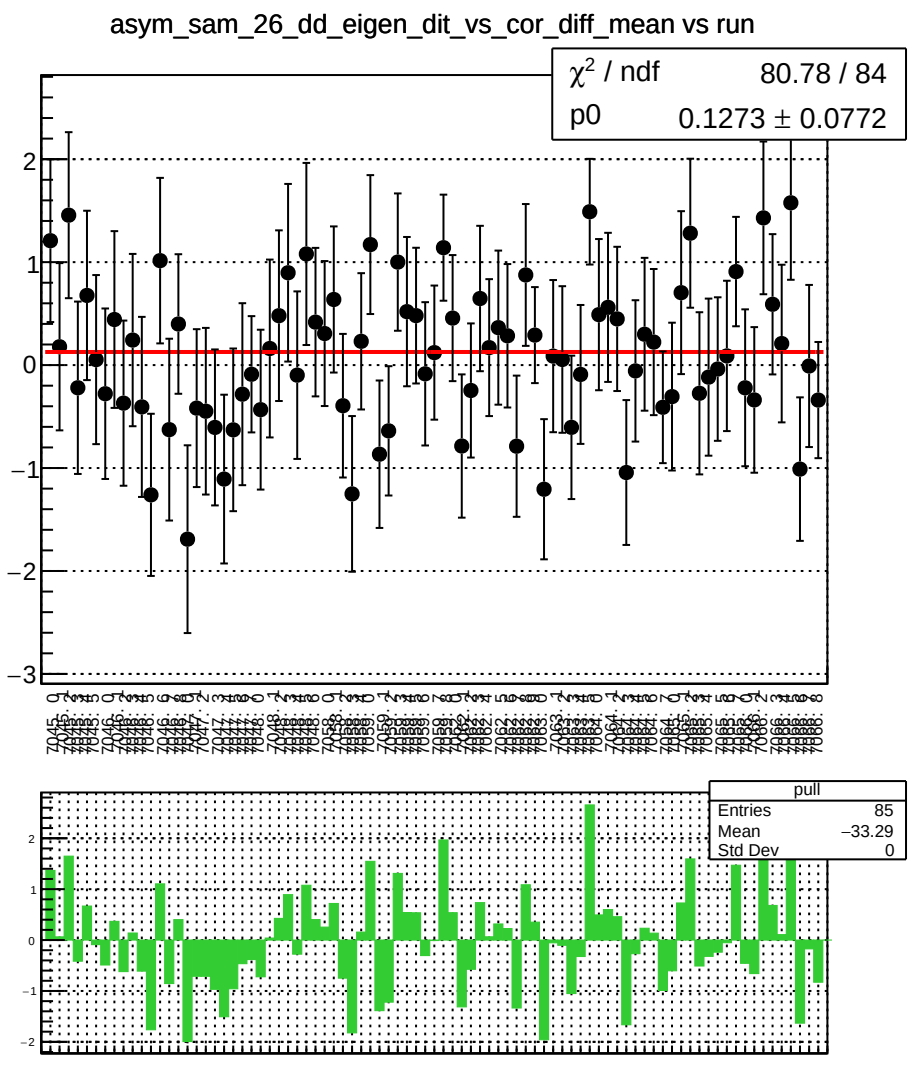

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.78 / 84
p0 0.1273 ± 0.0772
pull
Entries 85
Mean −33.27
Std Dev 0
pull1D
Entries 85
Mean −0.02764
Std Dev 0.9745

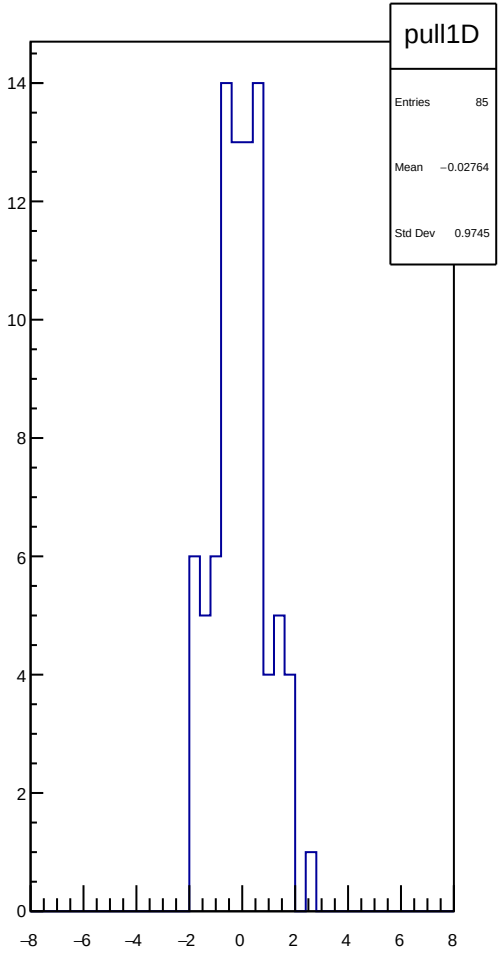

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 84
p0 69.78 ± 0.05459
90
85
80
75
70
65
60
55

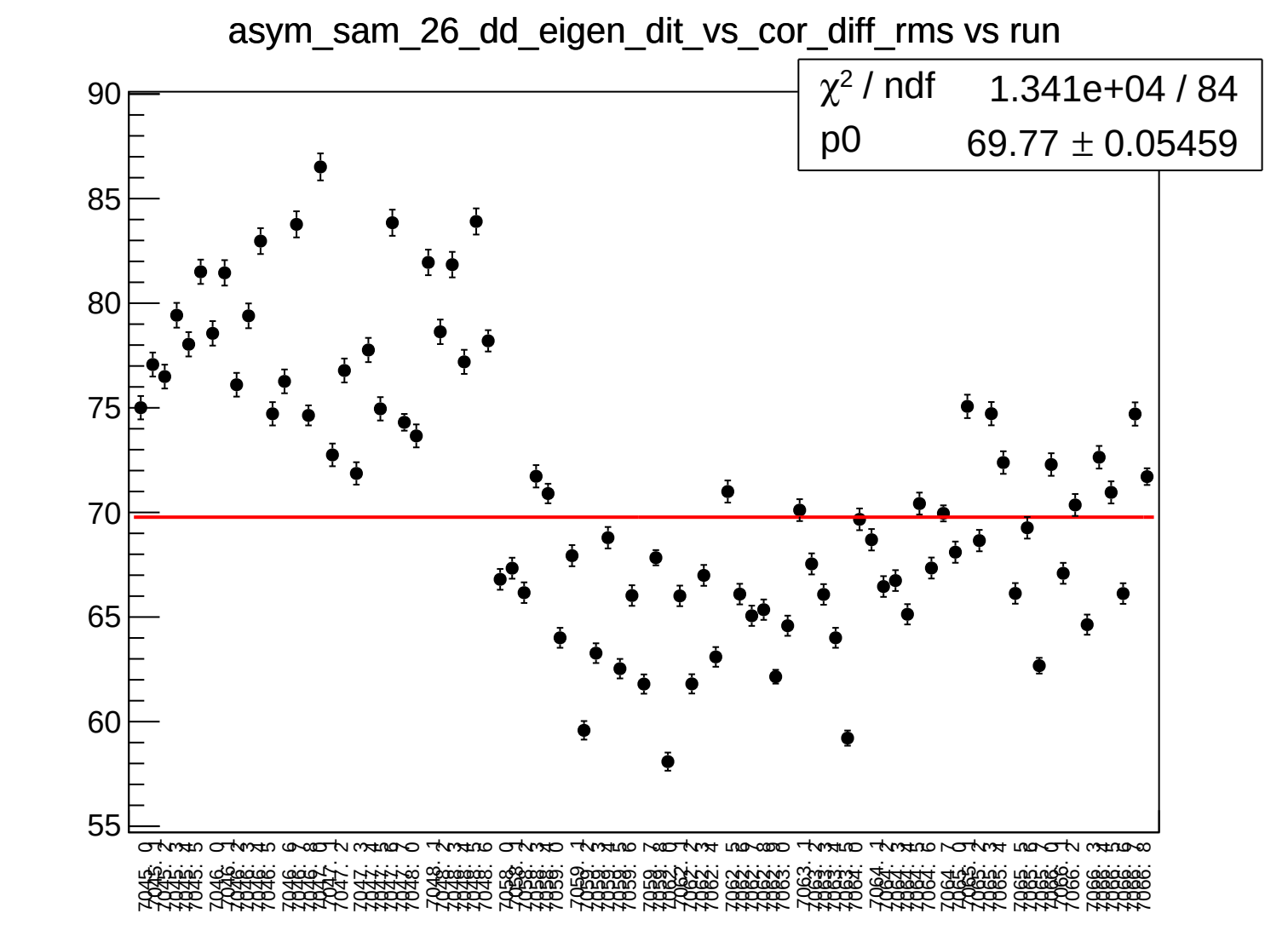

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.8 / 84
p0 −1.642e−06 ± 6.749e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean 272.2
Std Dev 0
2
1
0
−1
−2

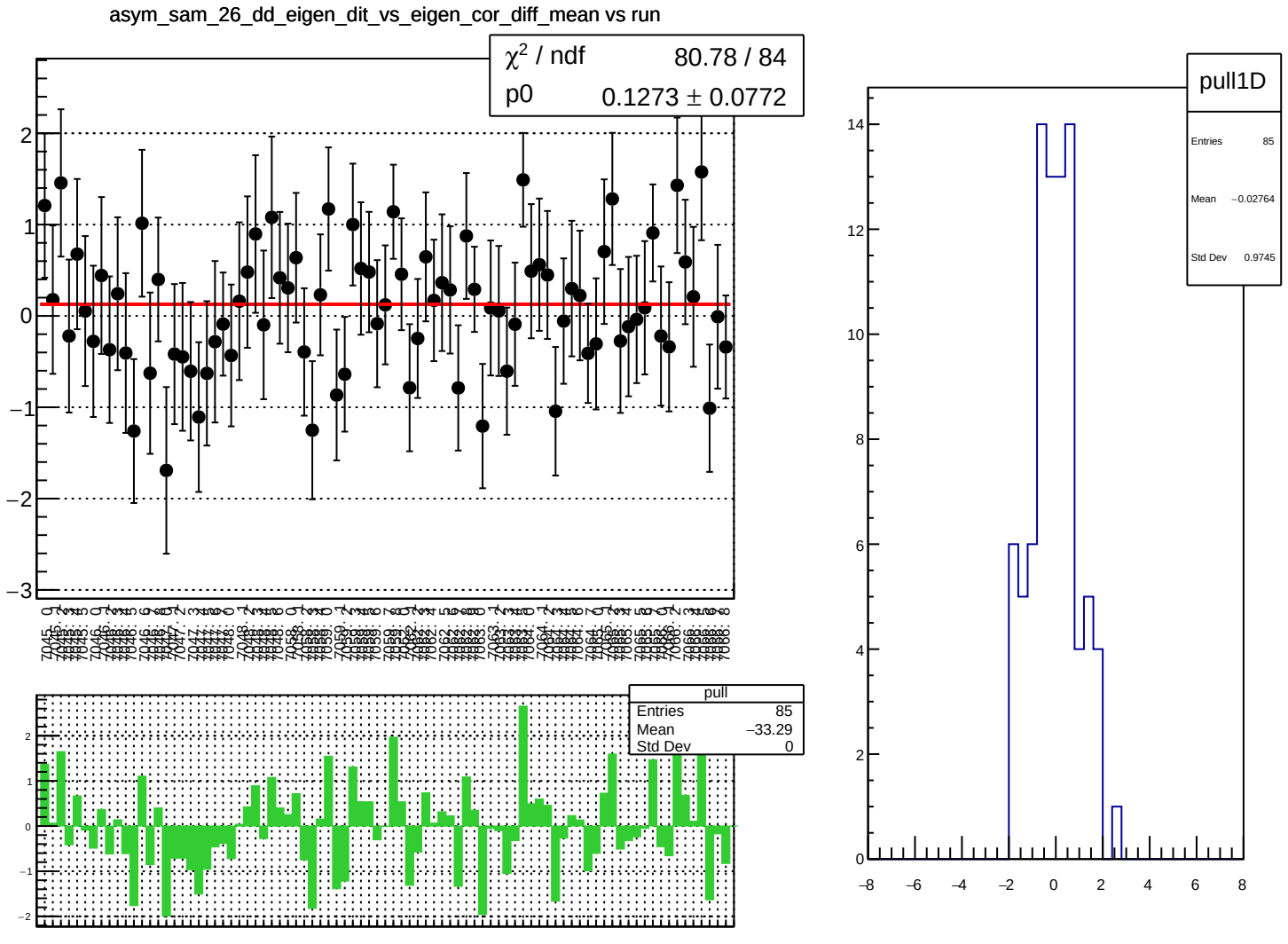

pull1D
Entries 85
Mean 0.02298
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

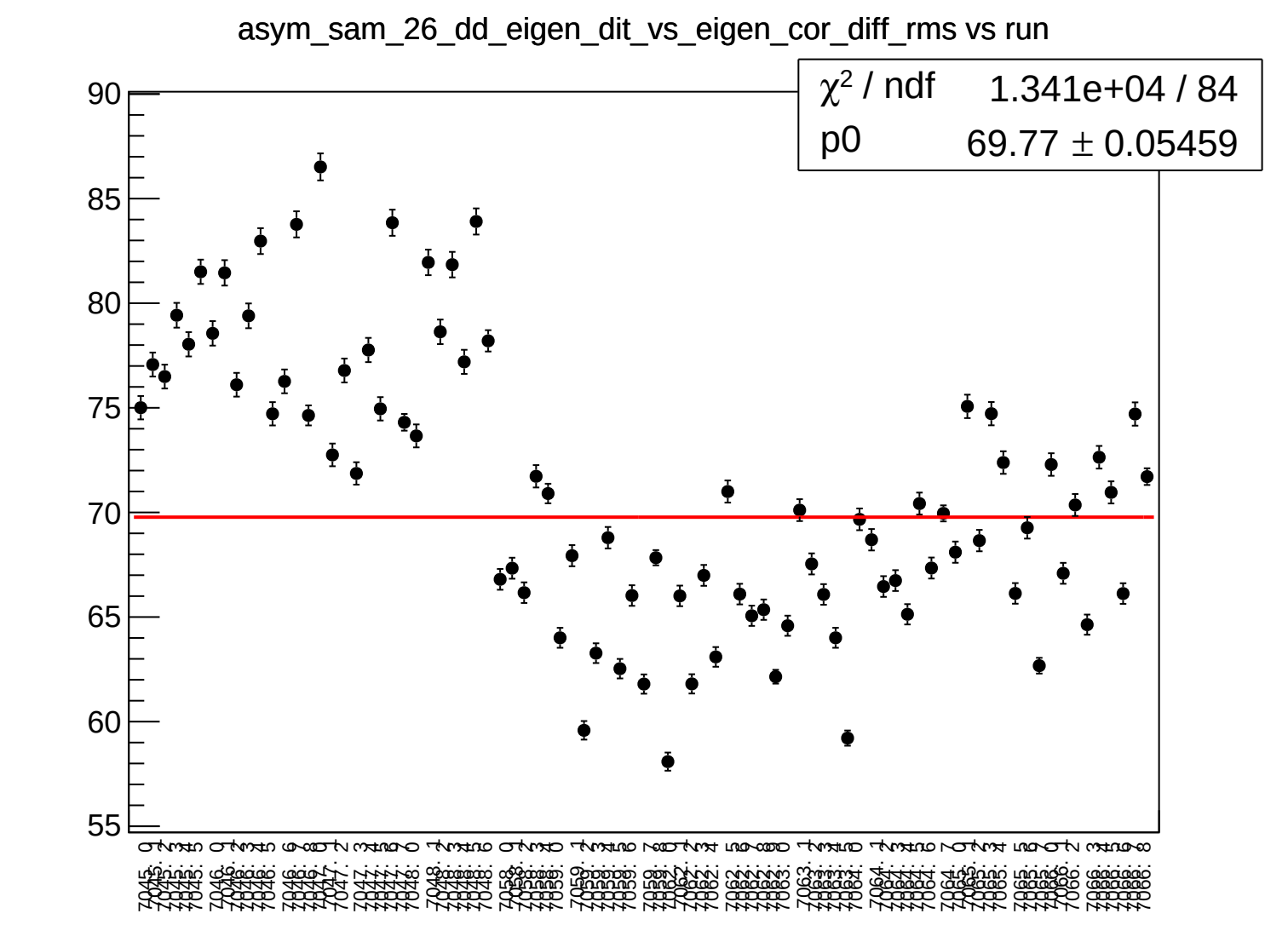

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5939 / 84
p0 0.006114 ± 4.772e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

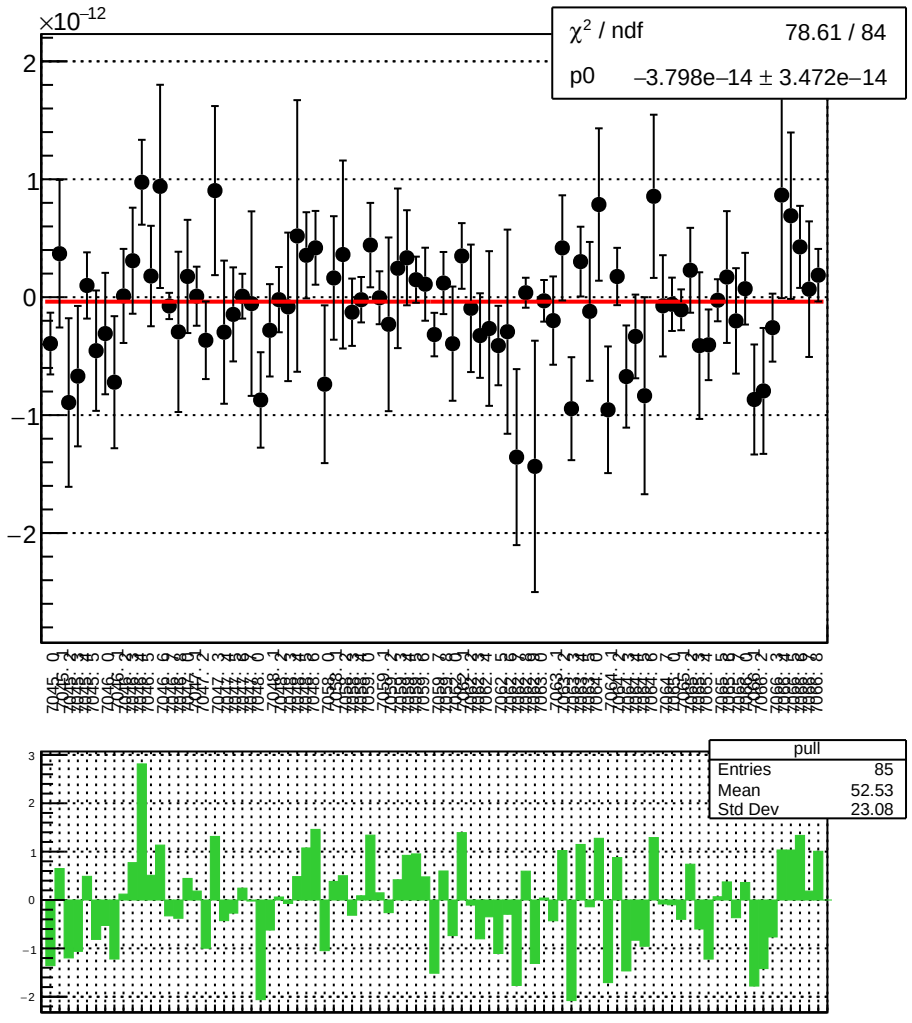

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.78 / 84
p0 0.1273 ± 0.0772
pull
Entries 85
Mean −33.29
Std Dev 0

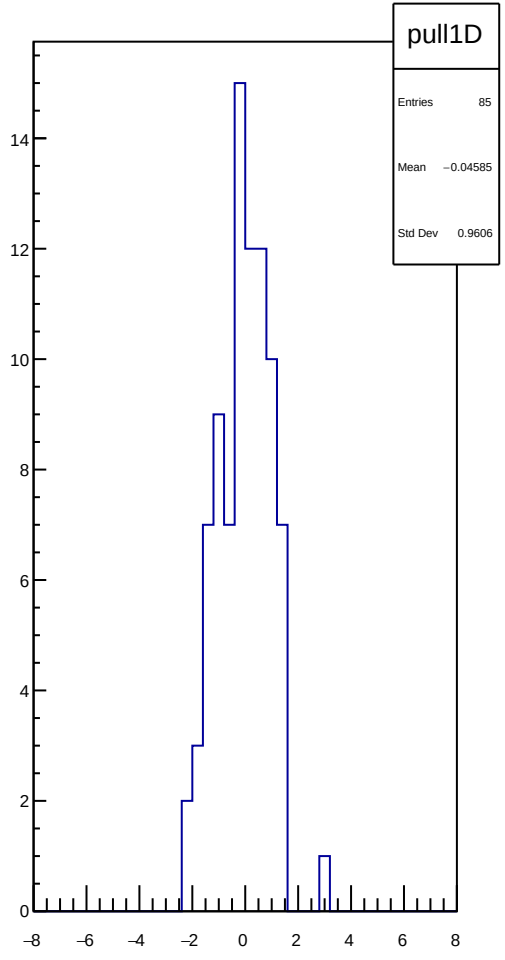

pull1D
Entries 85
Mean −0.02764
Std Dev 0.9745

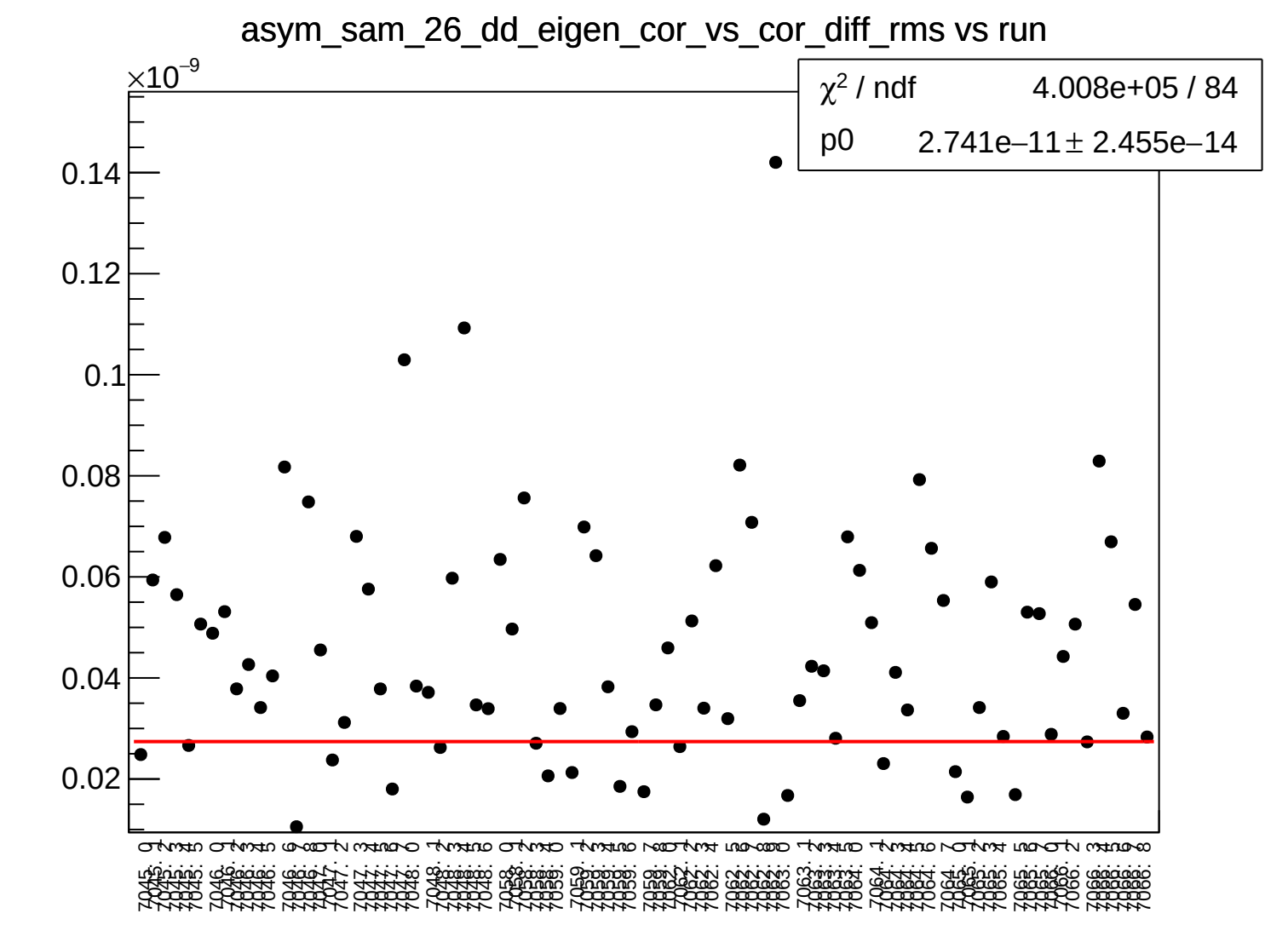

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 84
p0 69.77 ± 0.05459
90
85
80
75
70
65
60
55

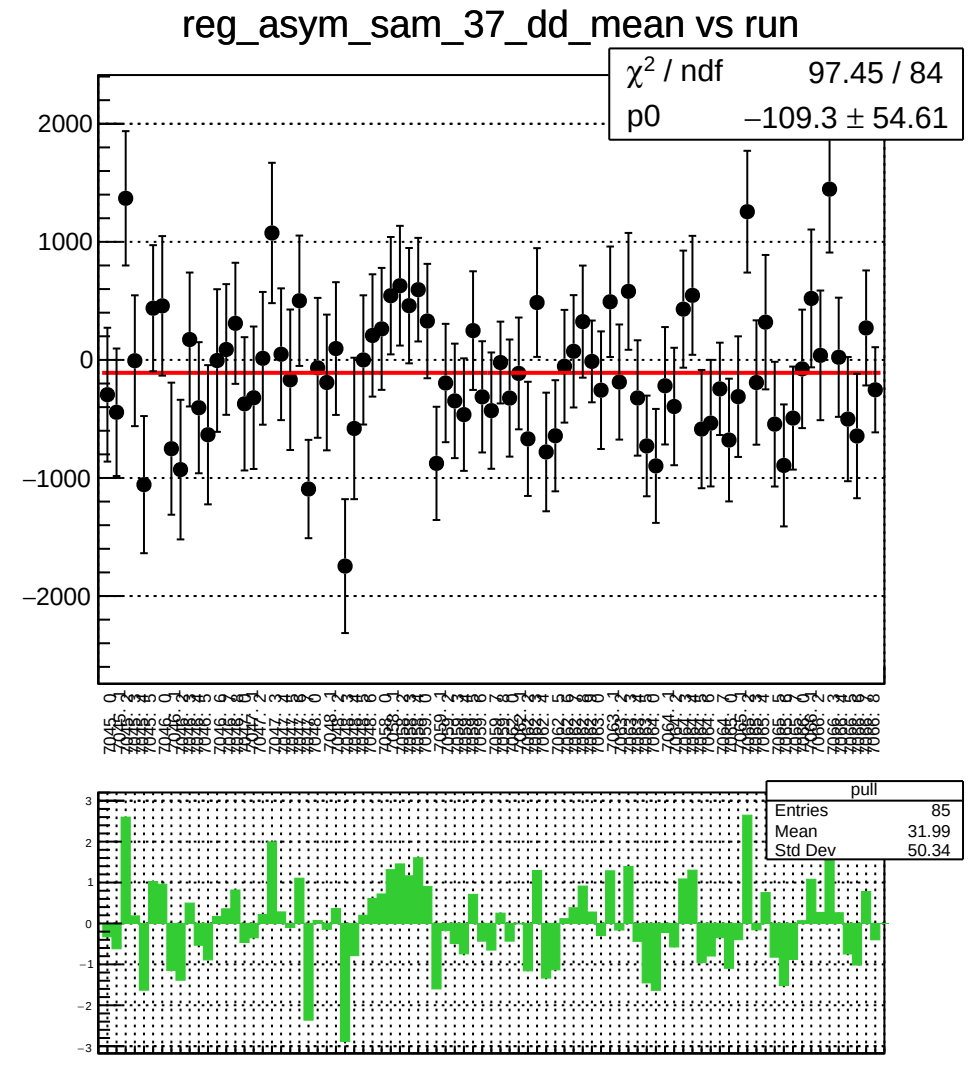

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.78 / 84
p0 0.1273 ± 0.0772
pull
Entries 85
Mean −33.29
Std Dev 0
pull1D
Entries 85
Mean −0.02764
Std Dev 0.9745

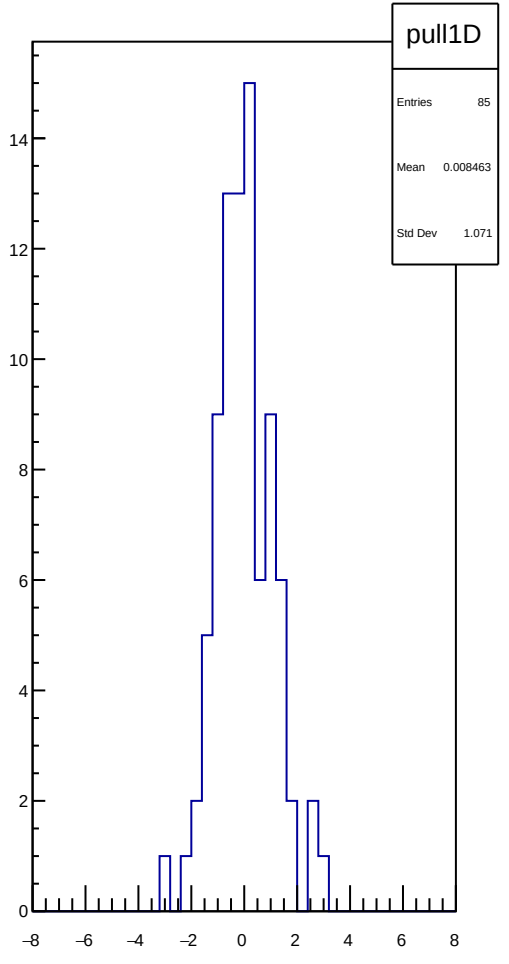

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 84
p0 69.77 ± 0.05459
90
85
80
75
70
65
60
55

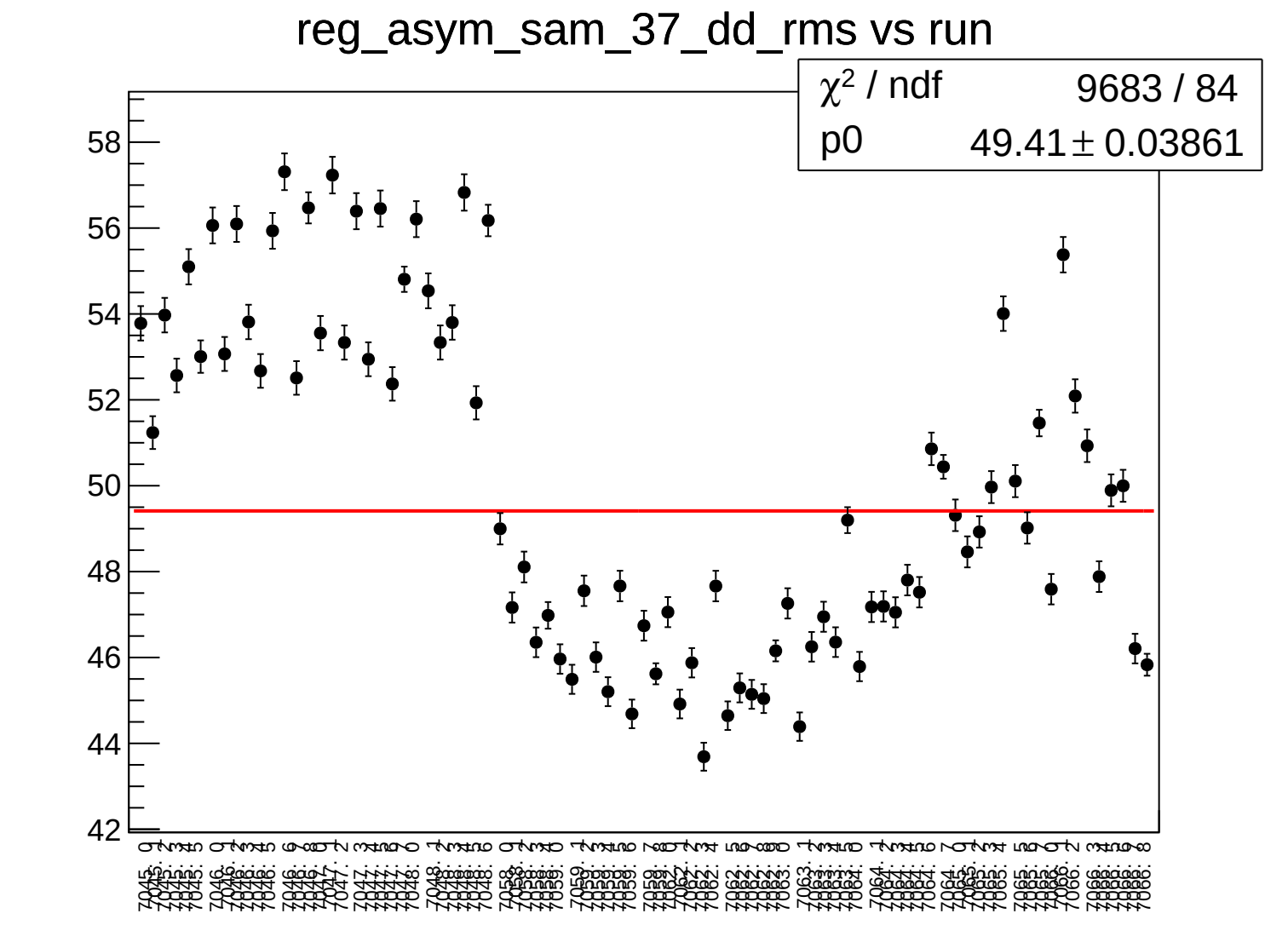

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.61 / 84
p0 −3.798e−14 ± 3.472e−14
pull
Entries 85
Mean 52.53
Std Dev 23.08

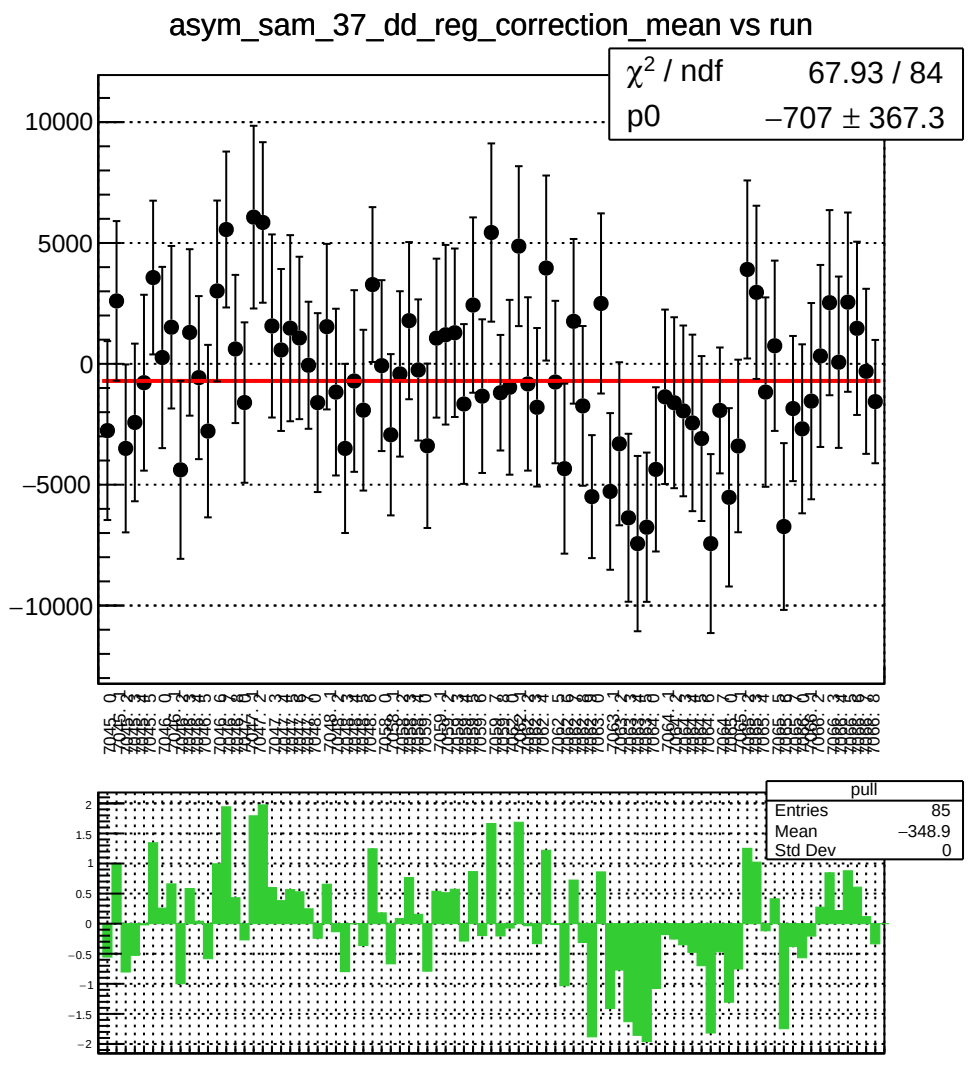

pull1D
Entries 85
Mean −0.04585
Std Dev 0.9606

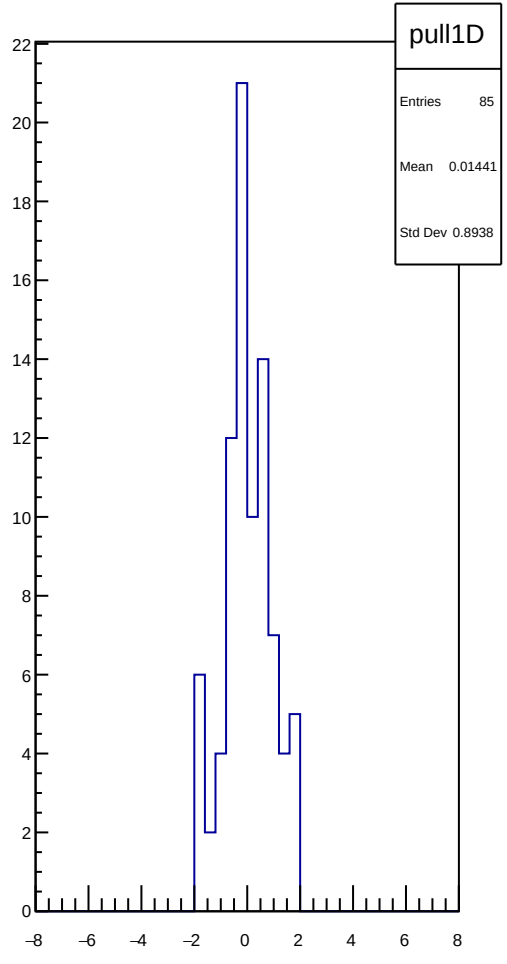

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.008e+05 / 84
p0 2.741e−11 ± 2.455e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

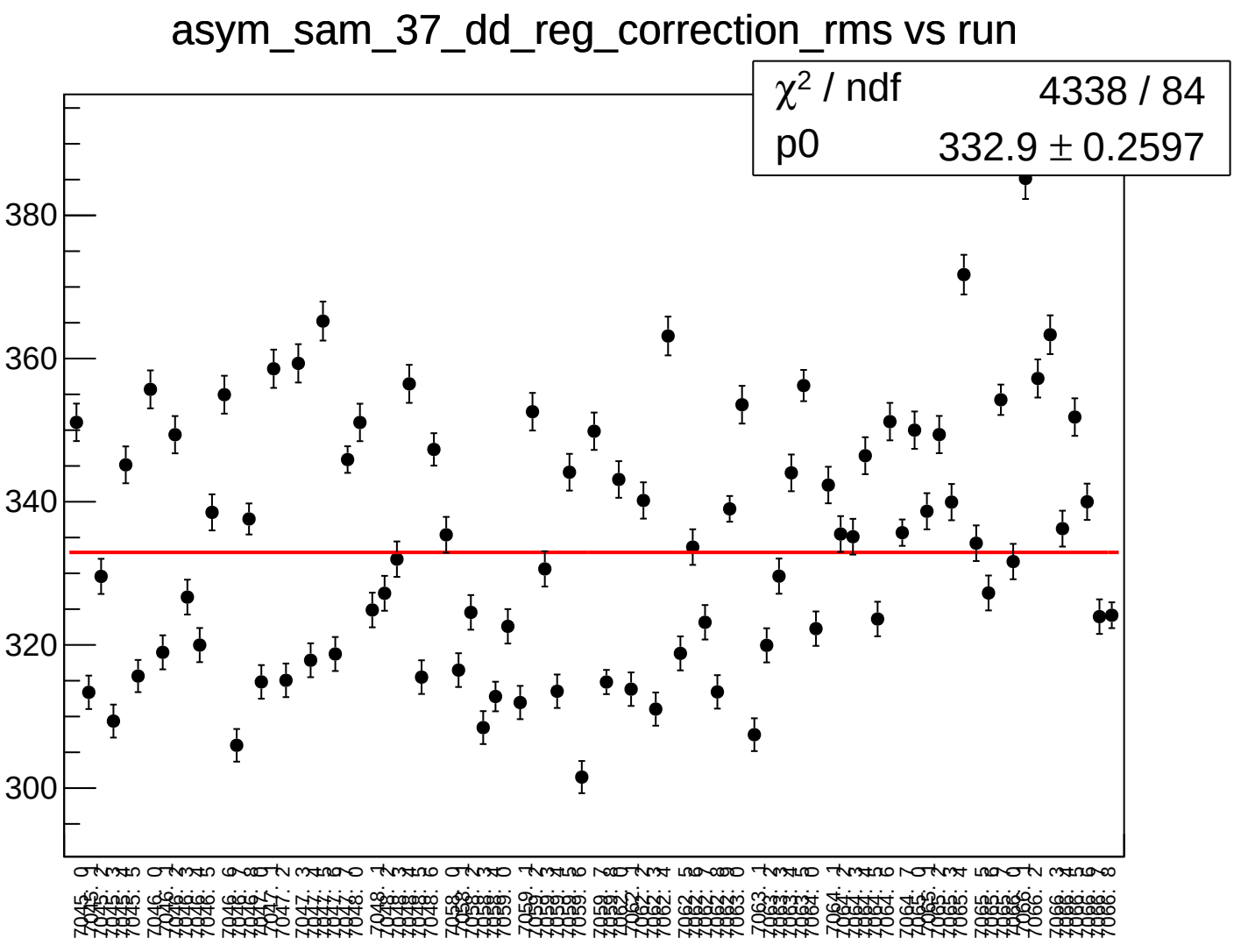

reg_asym_sam_37_dd_mean vs run
χ² / ndf 97.45 / 84
p0 −109.3 ± 54.61
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 31.99
Std Dev 50.34
3
2
1
0
−1
−2
−3

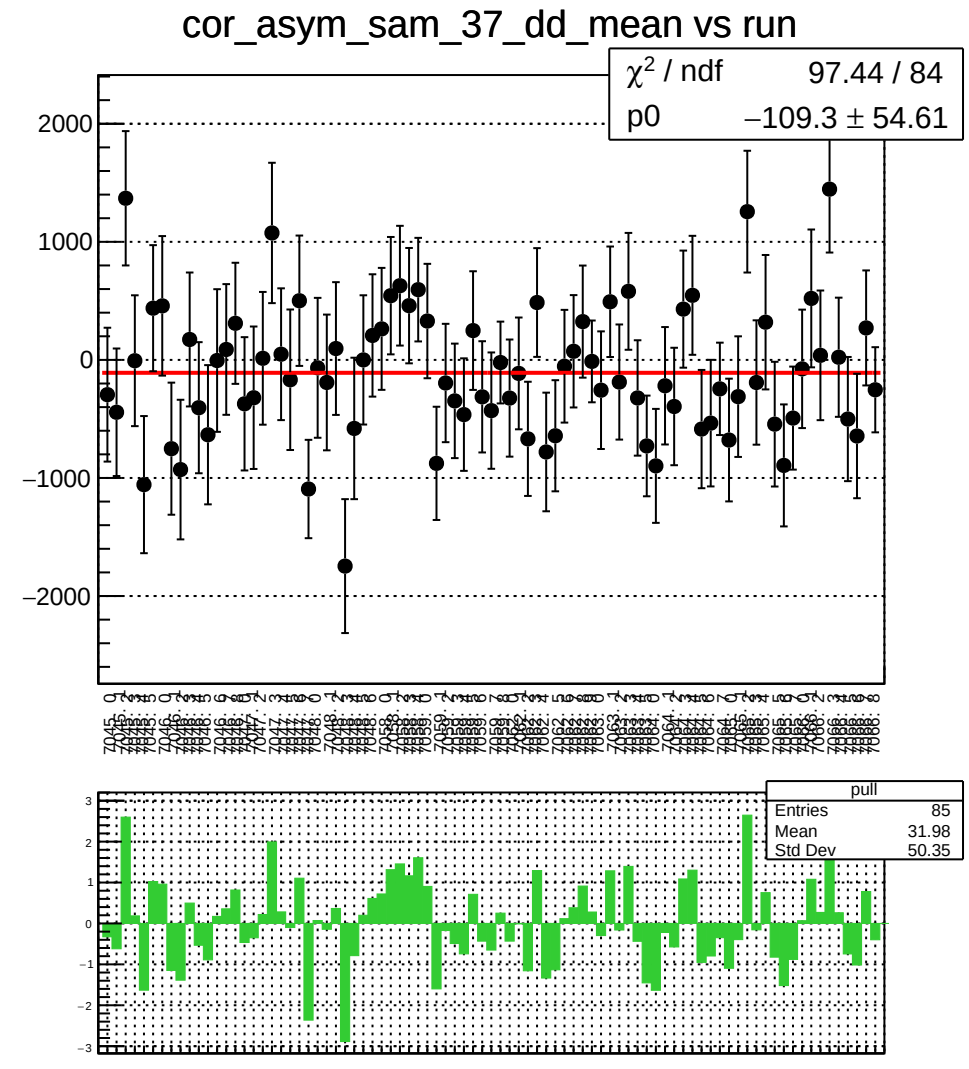

pull1D
Entries 85
Mean 0.008463
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

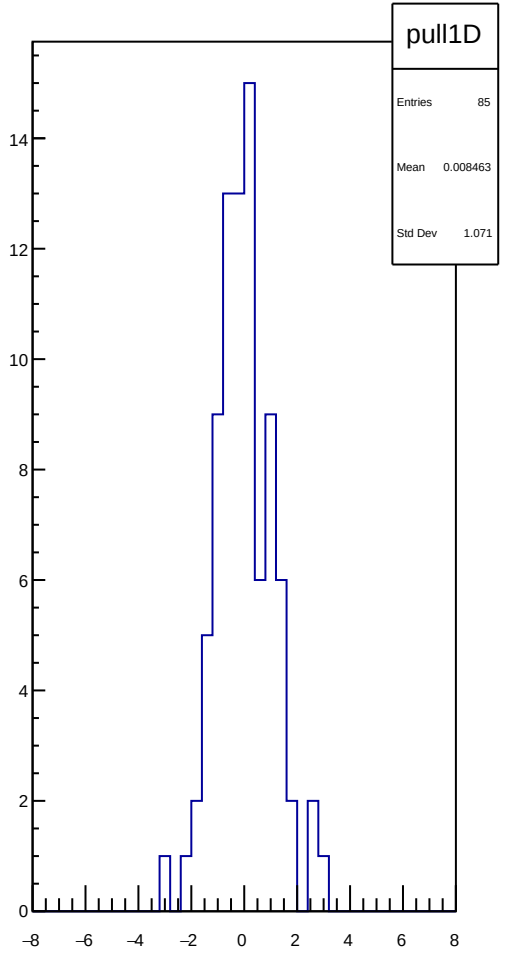

reg_asym_sam_37_dd_rms vs run
χ² / ndf 9683 / 84
p0 49.41 ± 0.03861
58
56
54
52
50
48
46
44
42

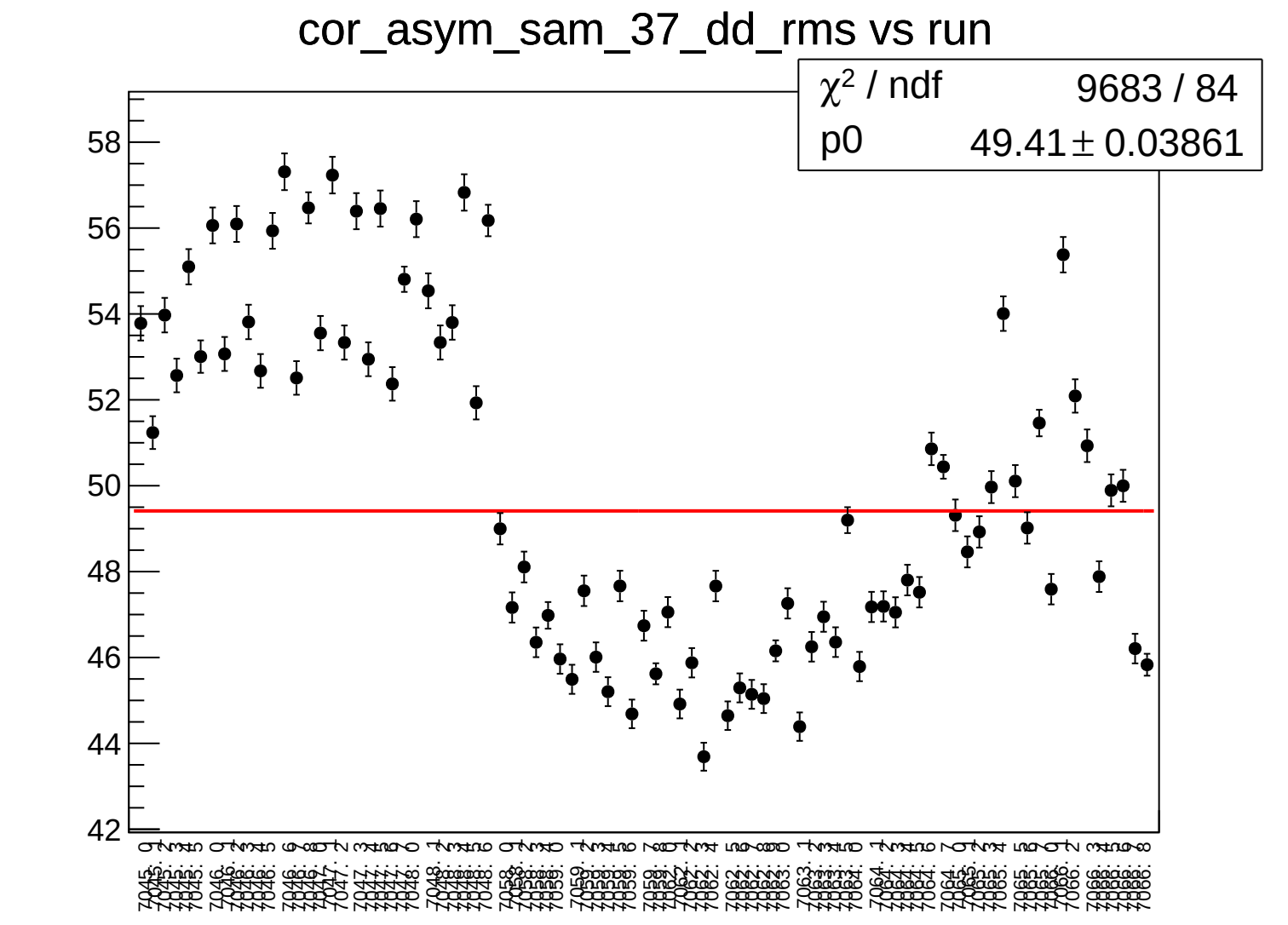

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 67.93 / 84
p0 −707 ± 367.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −348.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

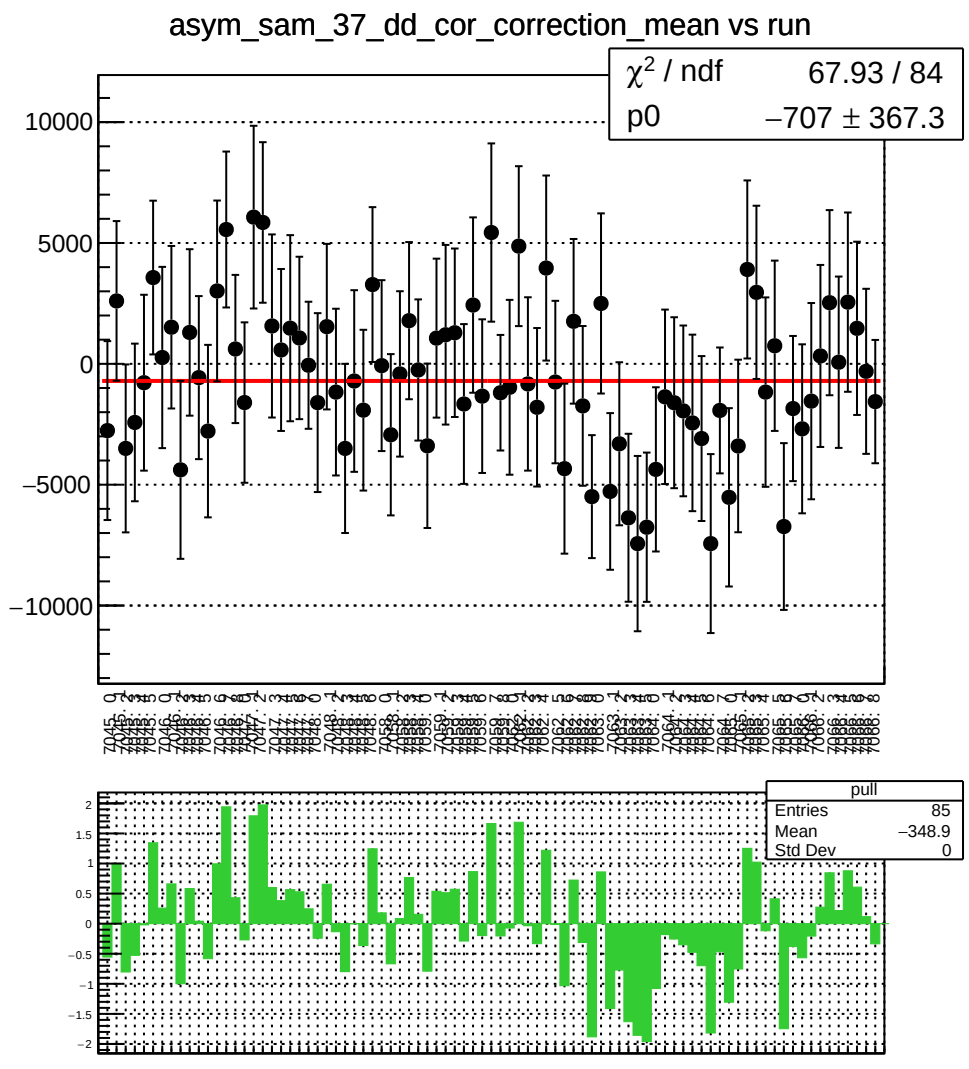

pull1D
Entries 85
Mean 0.01441
Std Dev 0.8938
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

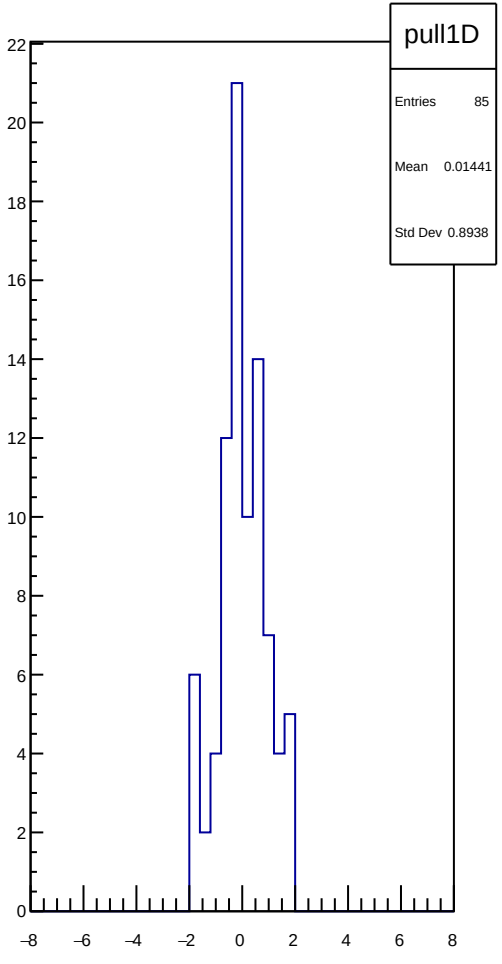

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 4338 / 84
p0 332.9 ± 0.2597
380
360
340
320
300


cor_asym_sam_37_dd_mean vs run
χ² / ndf 97.44 / 84
p0 −109.3 ± 54.61
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 31.98
Std Dev 50.35
3
2
1
0
−1
−2
−3


pull1D
Entries 85
Mean 0.008463
Std Dev 1.071
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 9683 / 84
p0 49.41 ± 0.03861
58
56
54
52
50
48
46
44
42


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 67.93 / 84
p0 −707 ± 367.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −348.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean 0.01441
Std Dev 0.8938
22
20
18
16
14
12
10
8
6
4
2
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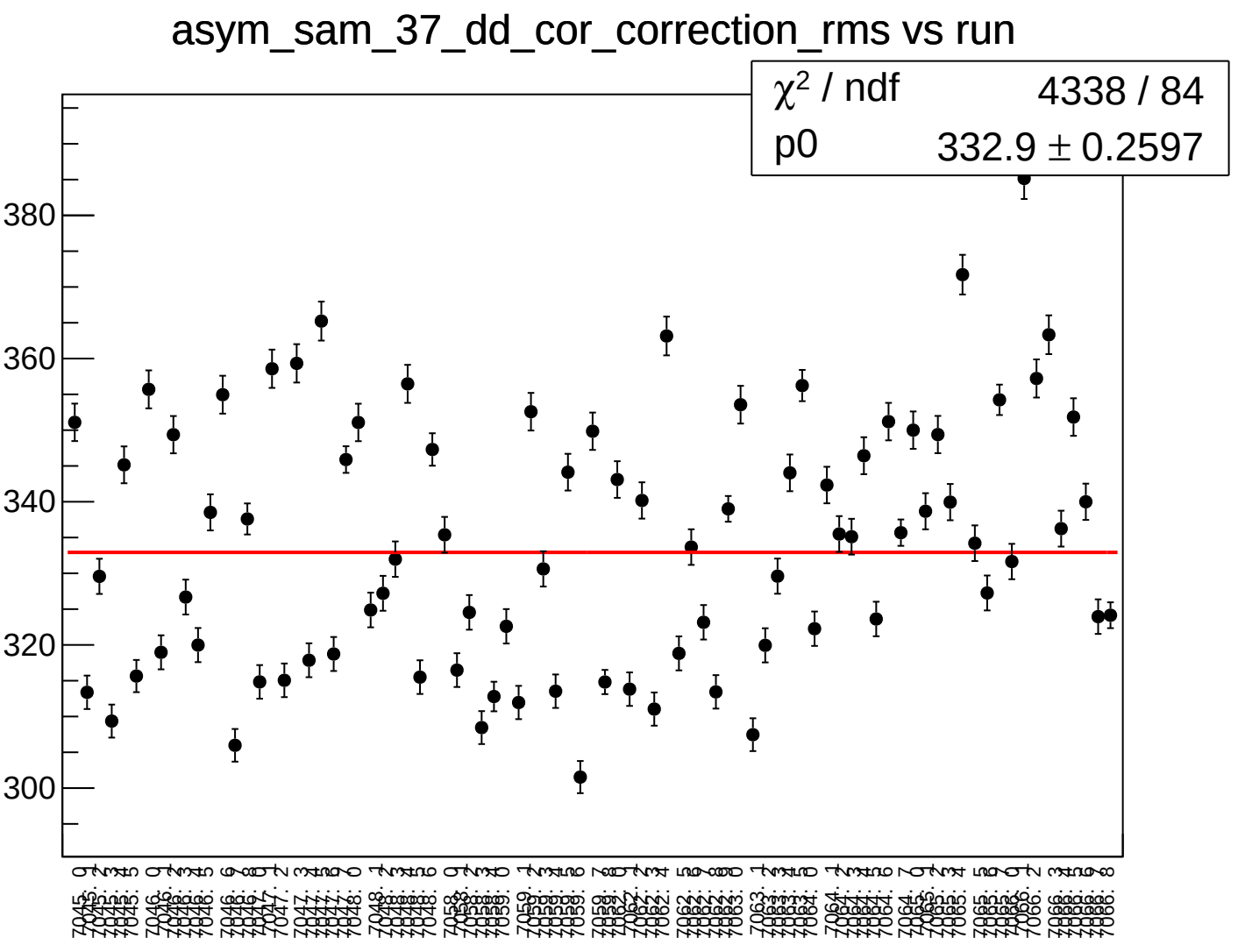
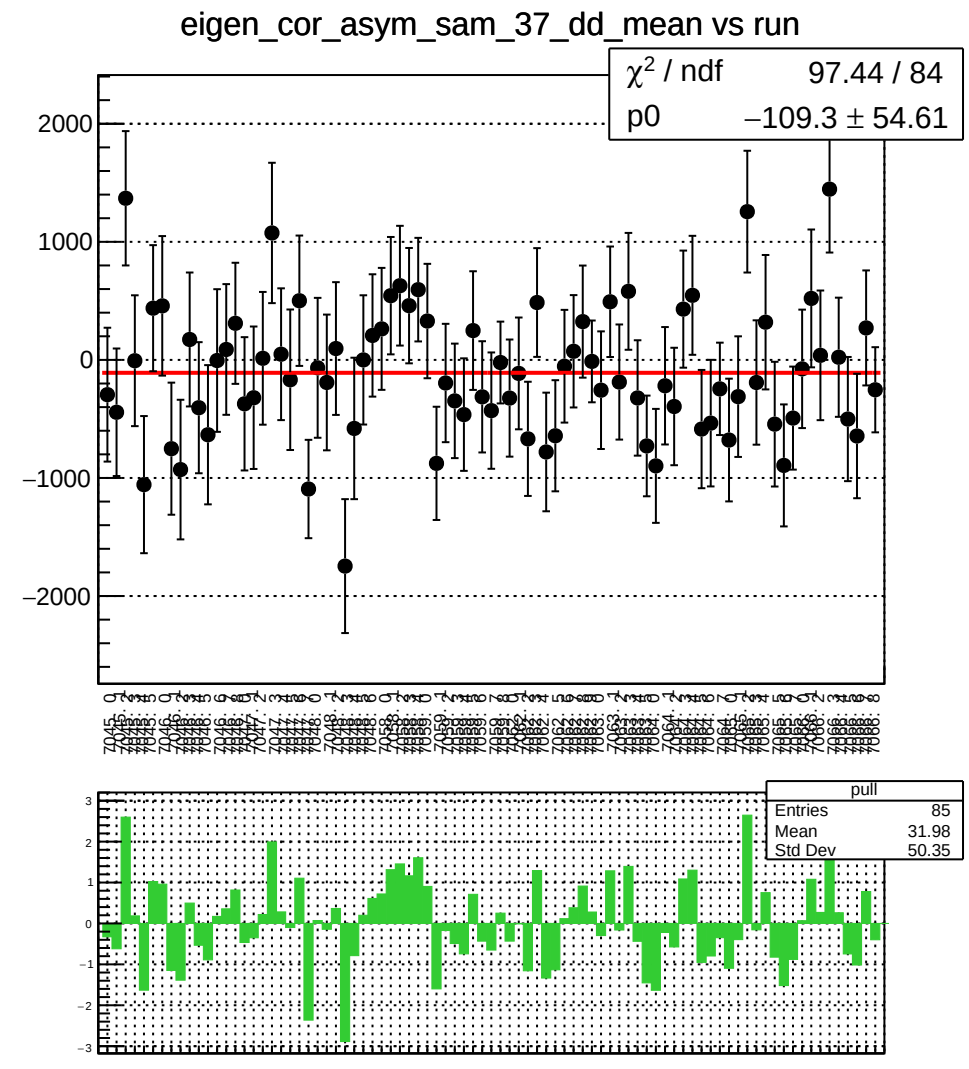
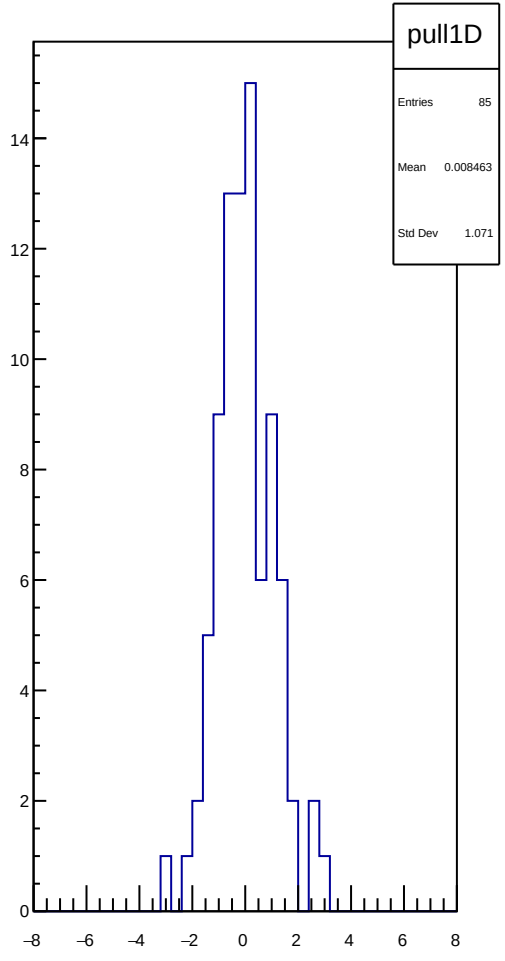
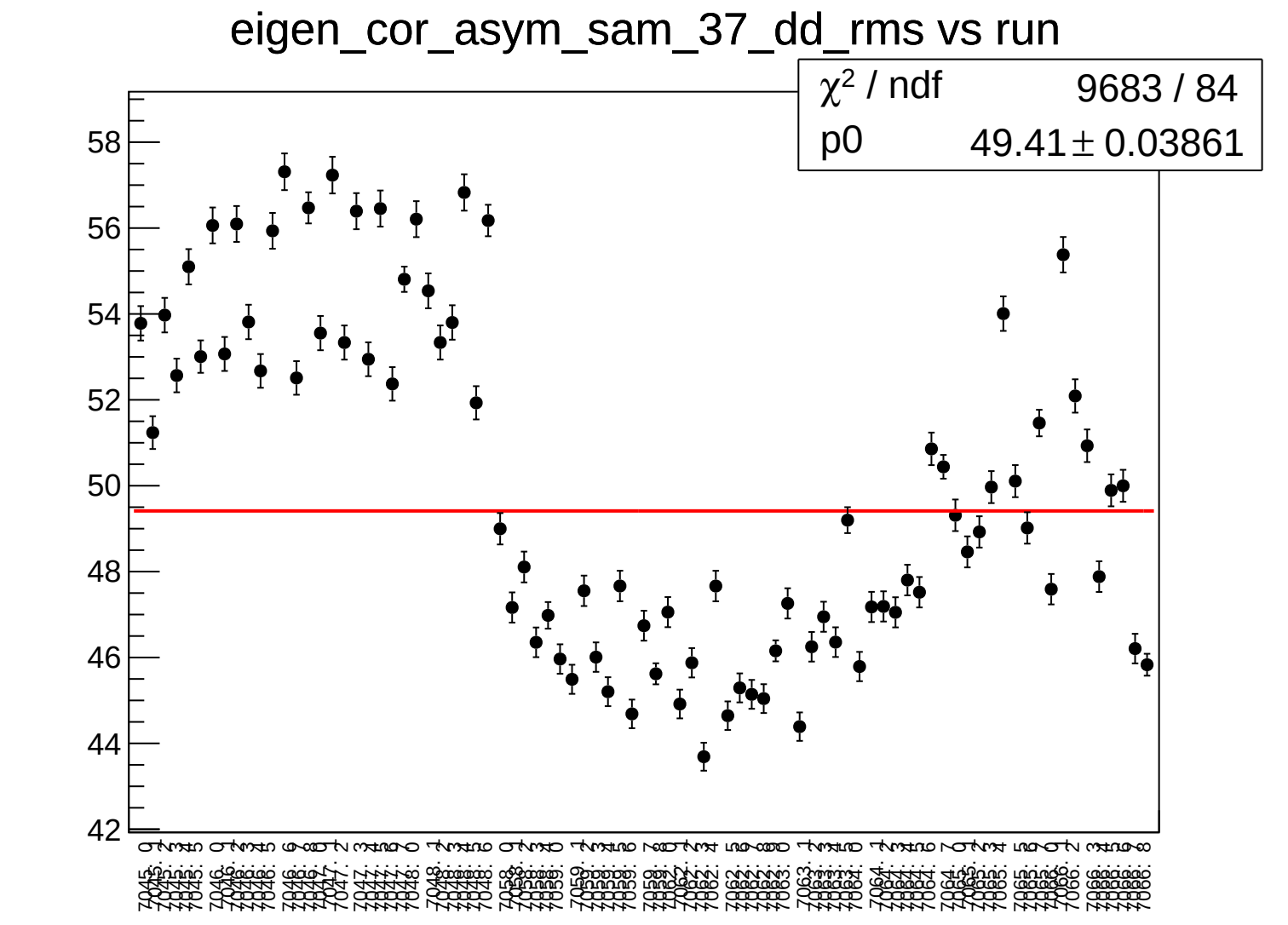
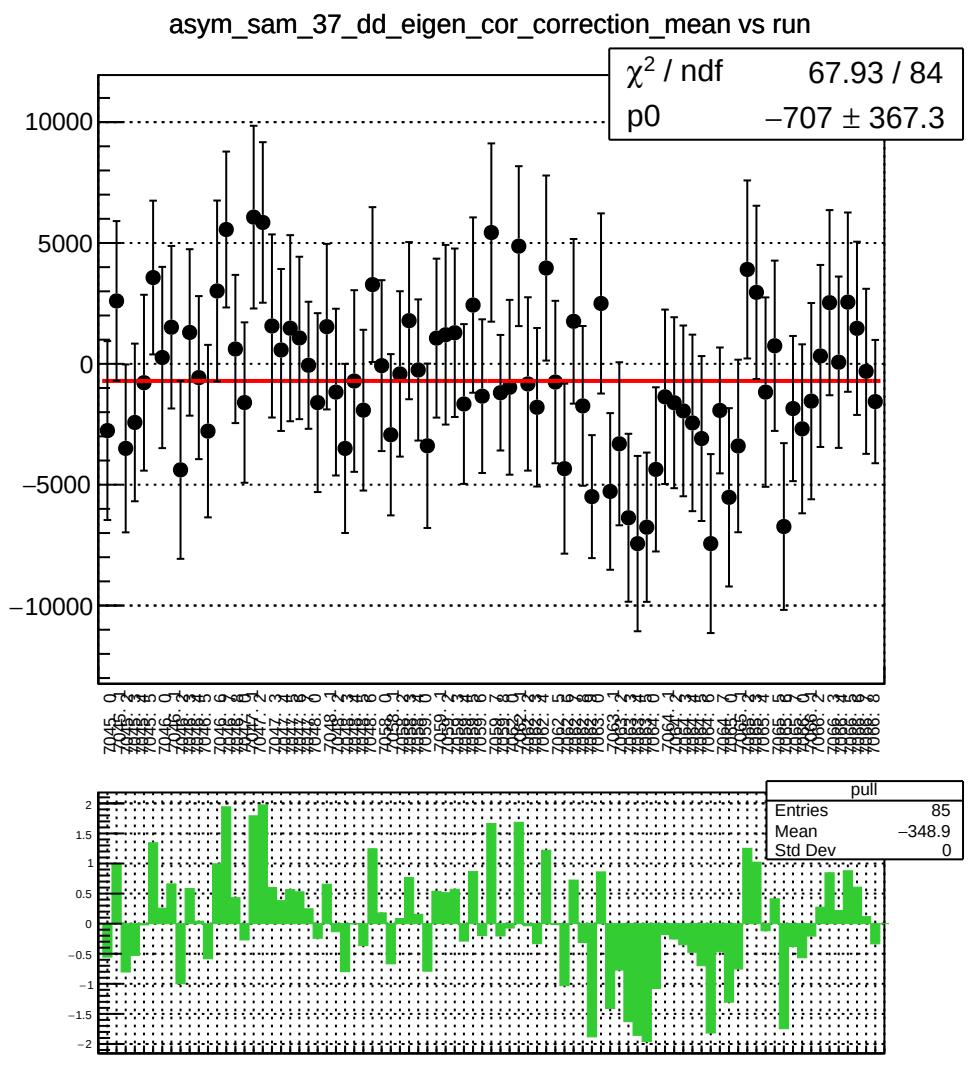
2
4
6
8

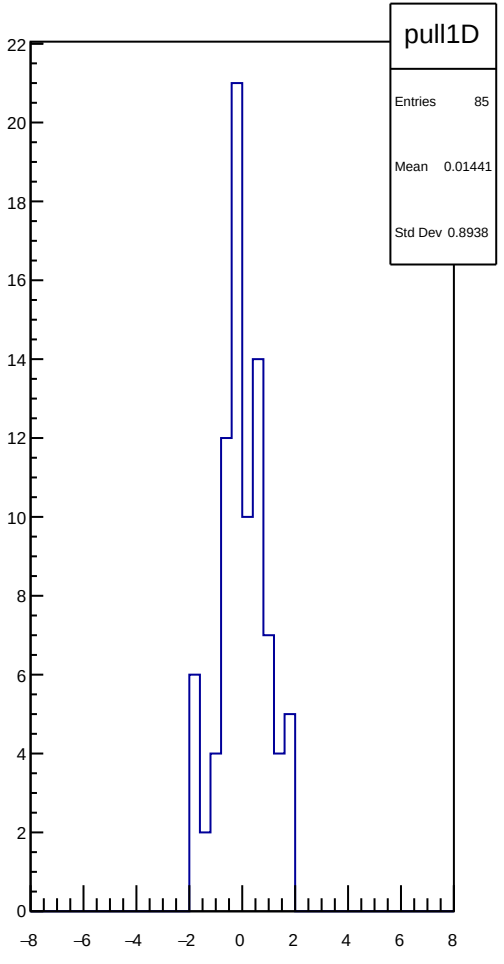

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 4338 / 84
p0 332.9 ± 0.2597
380
360
340
320
300


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 97.44 / 84
p0 −109.3 ± 54.61
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 31.98
Std Dev 50.35
3
2
1
0
−1
−2
−3


pull1D
Entries 85
Mean 0.008463
Std Dev 1.071
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
χ^2 / ndf 9683 / 84
p0 49.41 ± 0.03861
58
56
54
52
50
48
46
44
42


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.93 / 84
p0 −707 ± 367.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −348.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean 0.01441
Std Dev 0.8938
22
20
18
16
14
12
10
8
6
4
2
0
−8
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−4
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2
4
6
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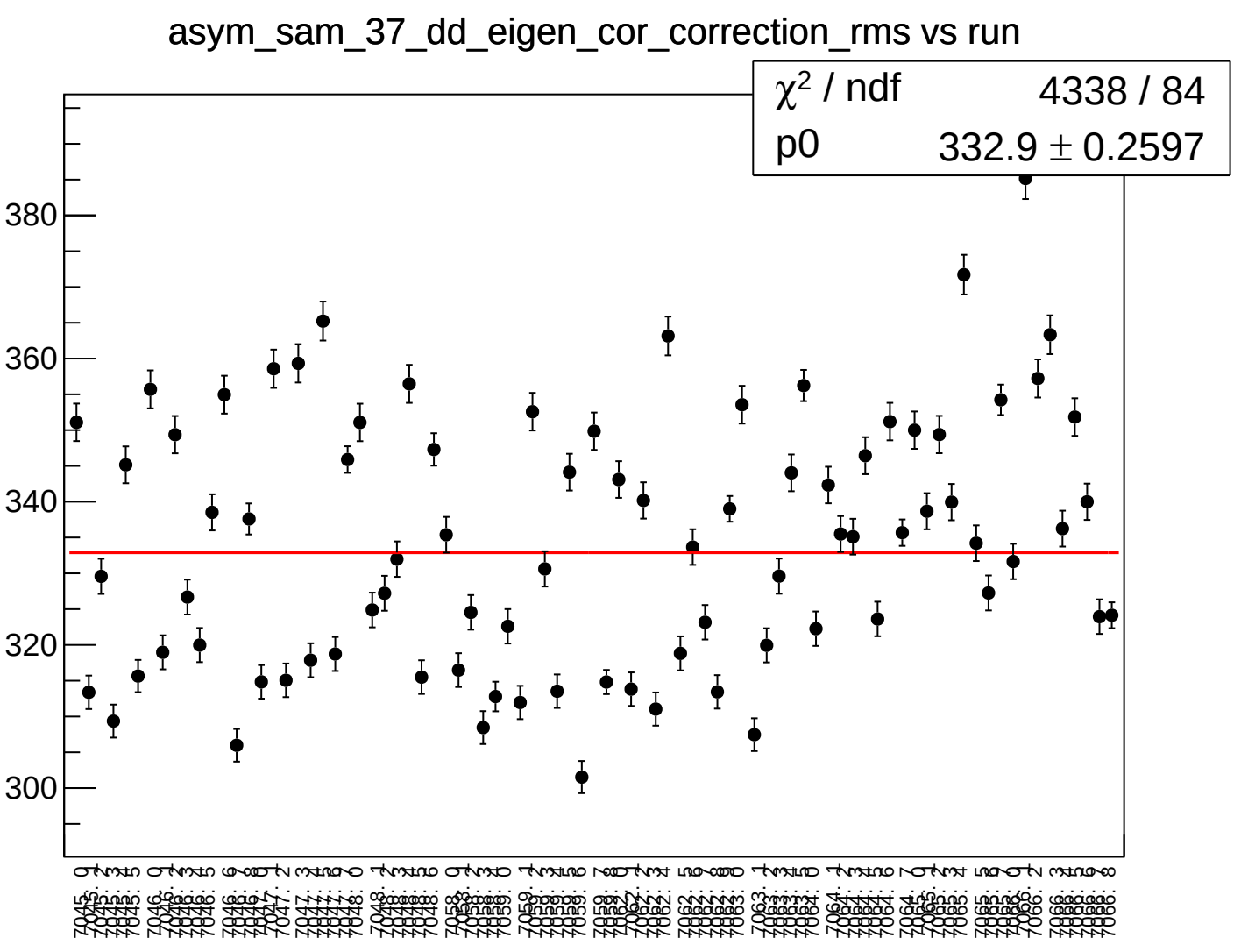
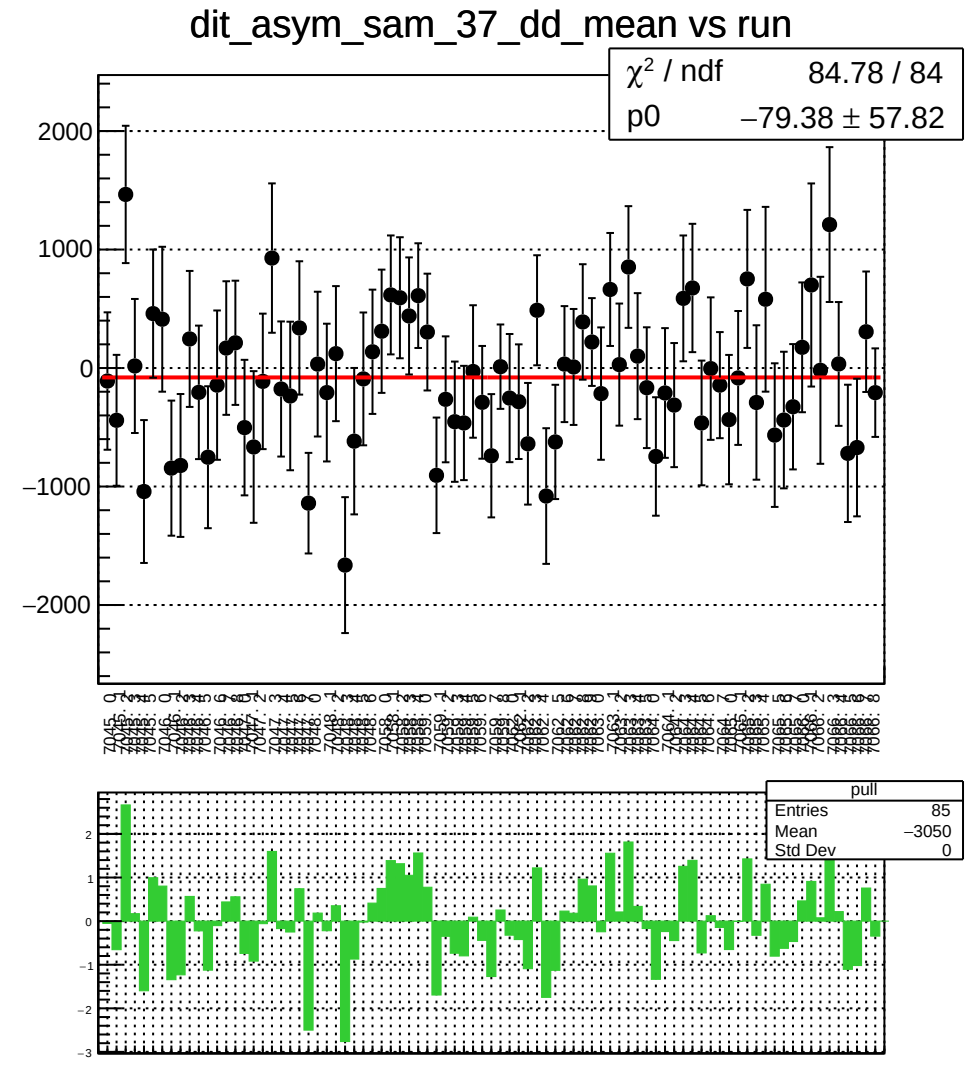
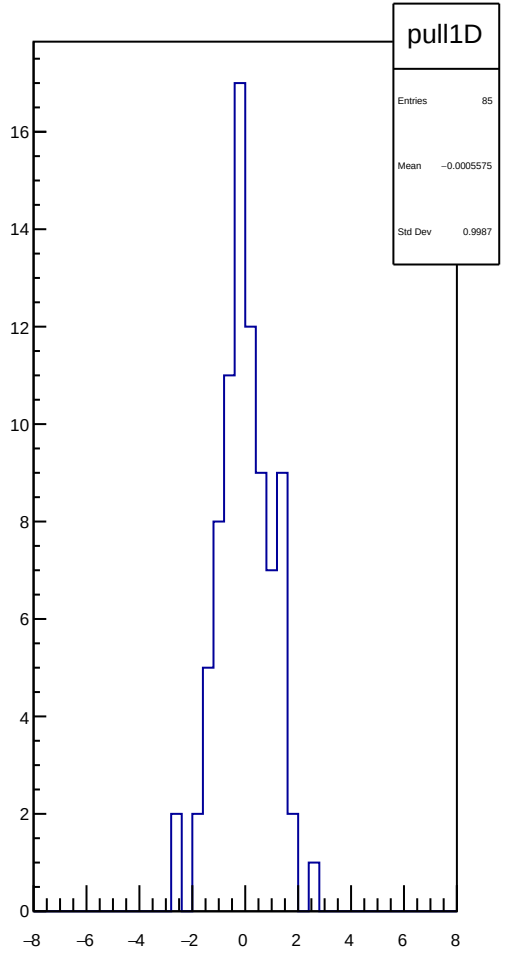
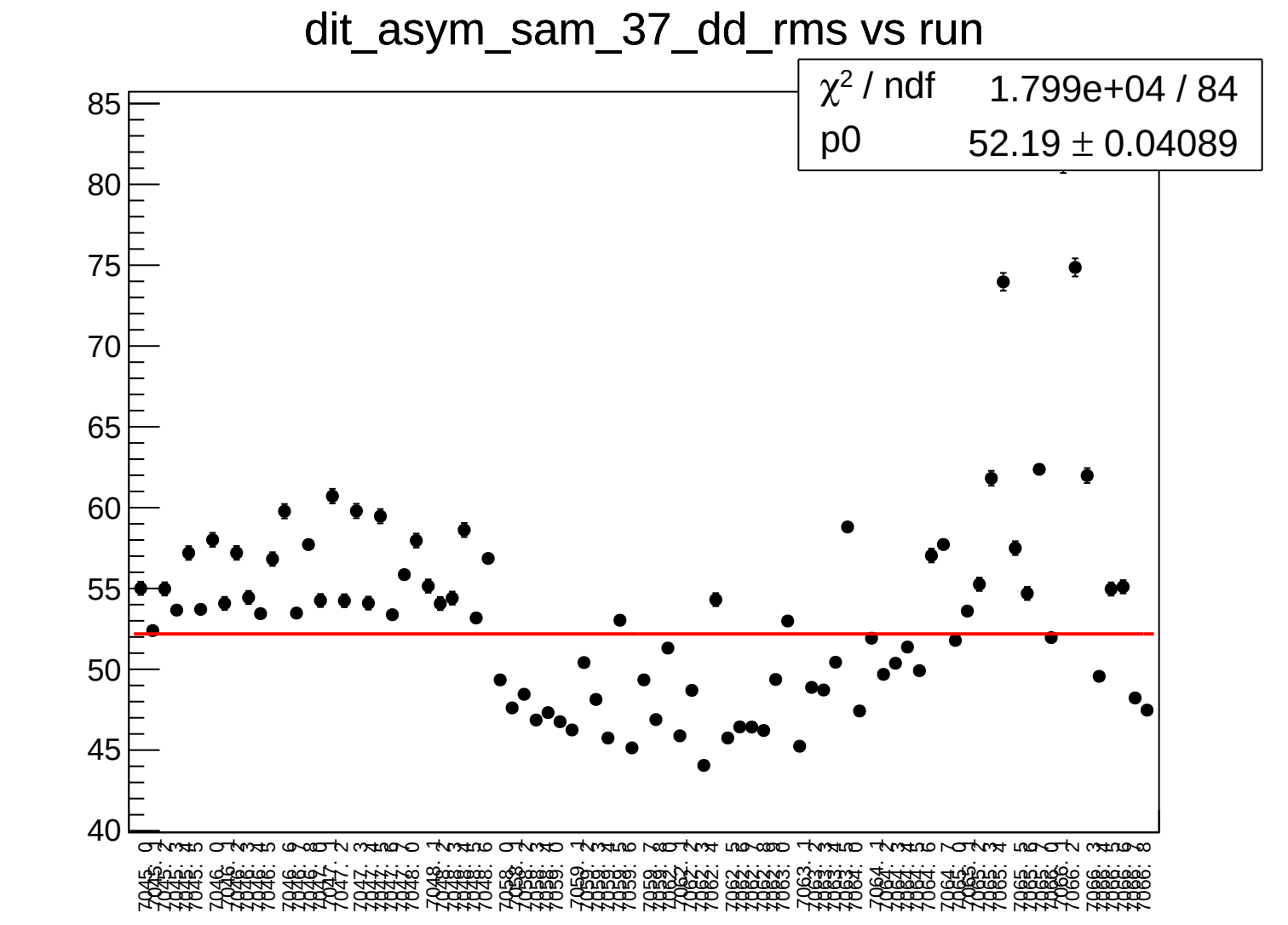
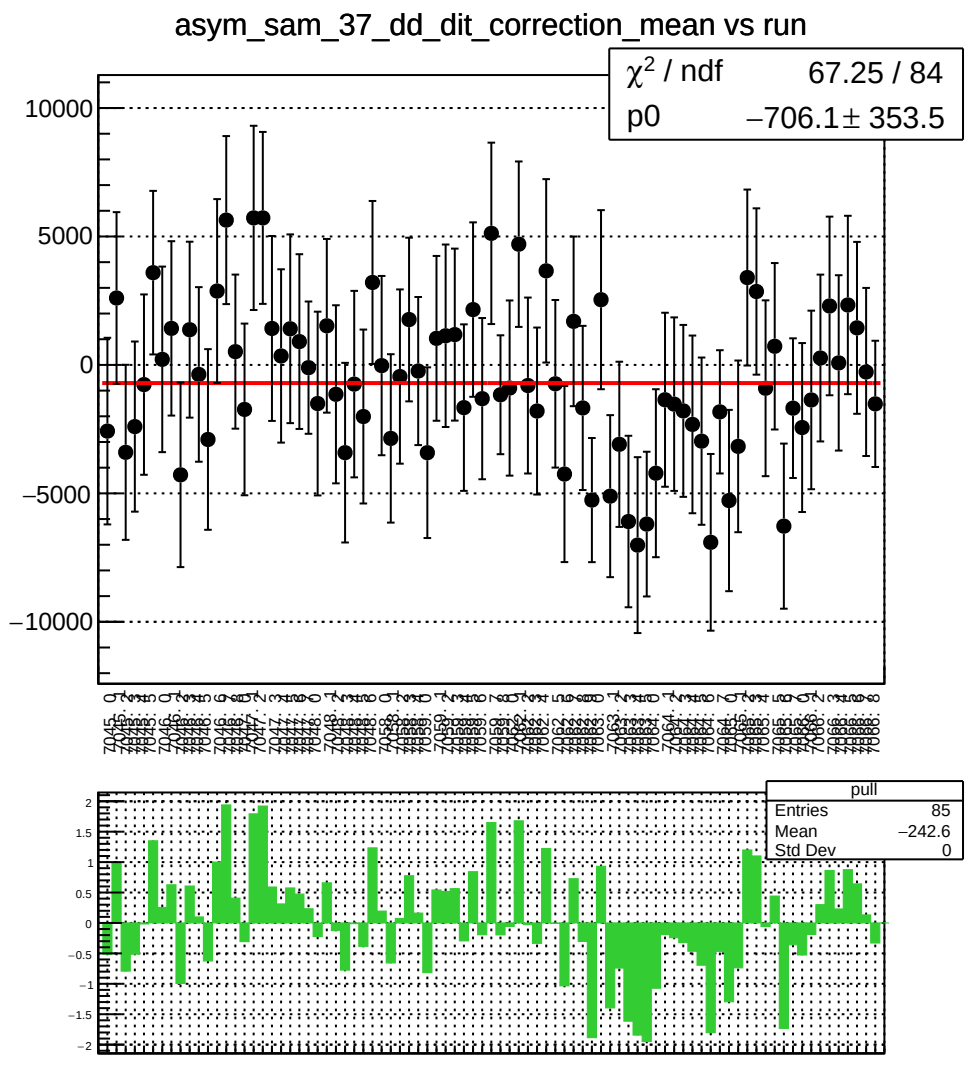
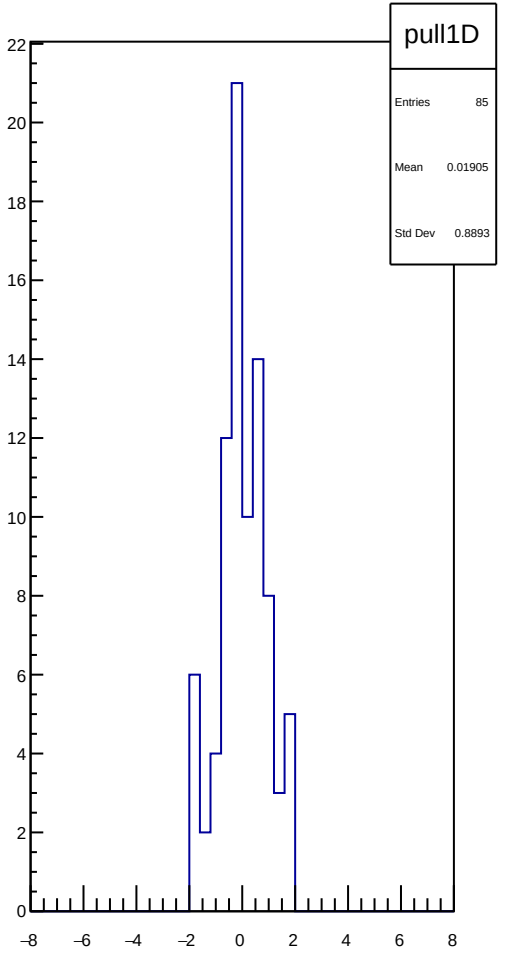

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4338 / 84
p0 332.9 ± 0.2597
380
360
340
320
300

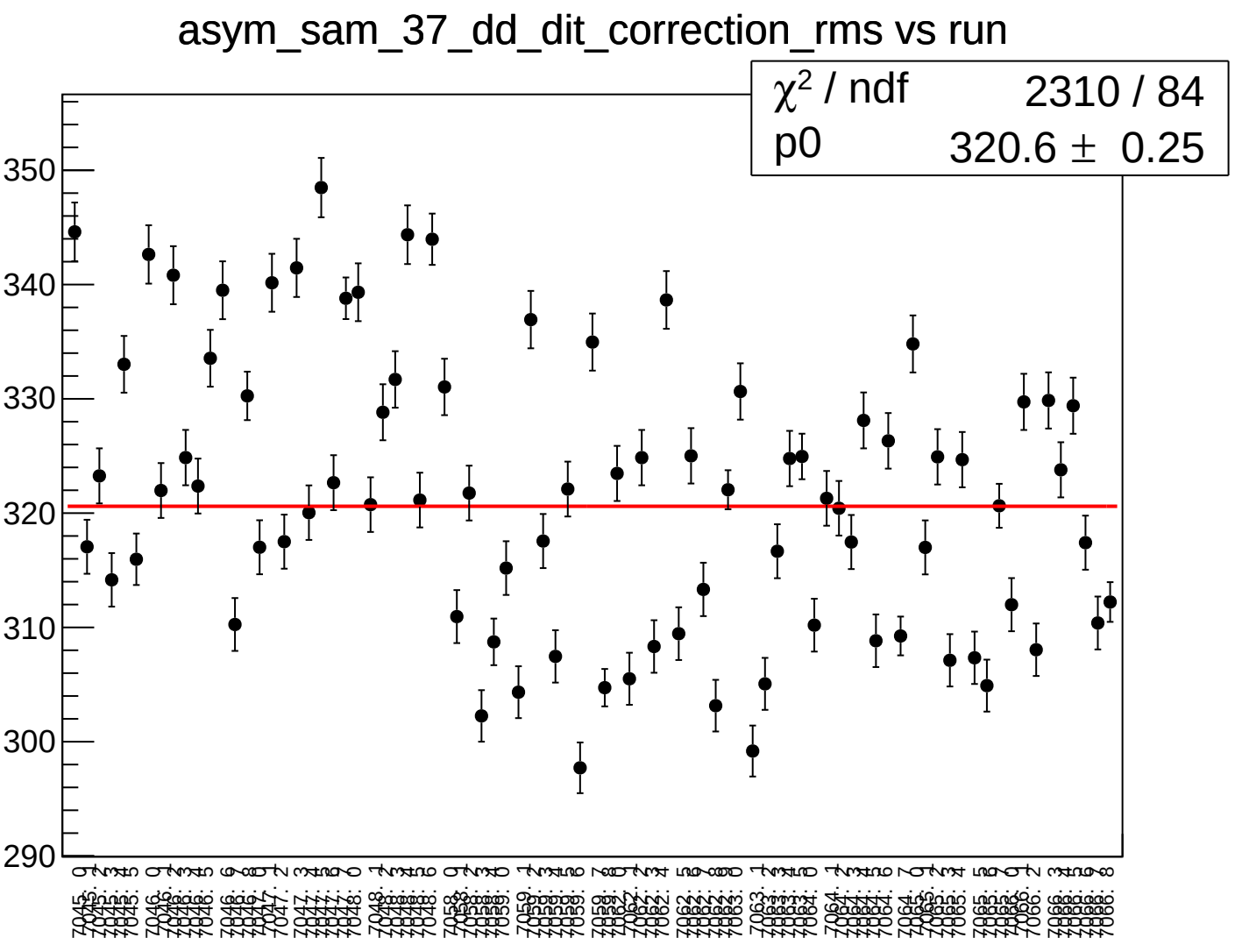

dit_asym_sam_37_dd_mean vs run
χ² / ndf 84.78 / 84
p0 −79.38 ± 57.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −3050
Std Dev 0
2
1
0
−1
−2
−3

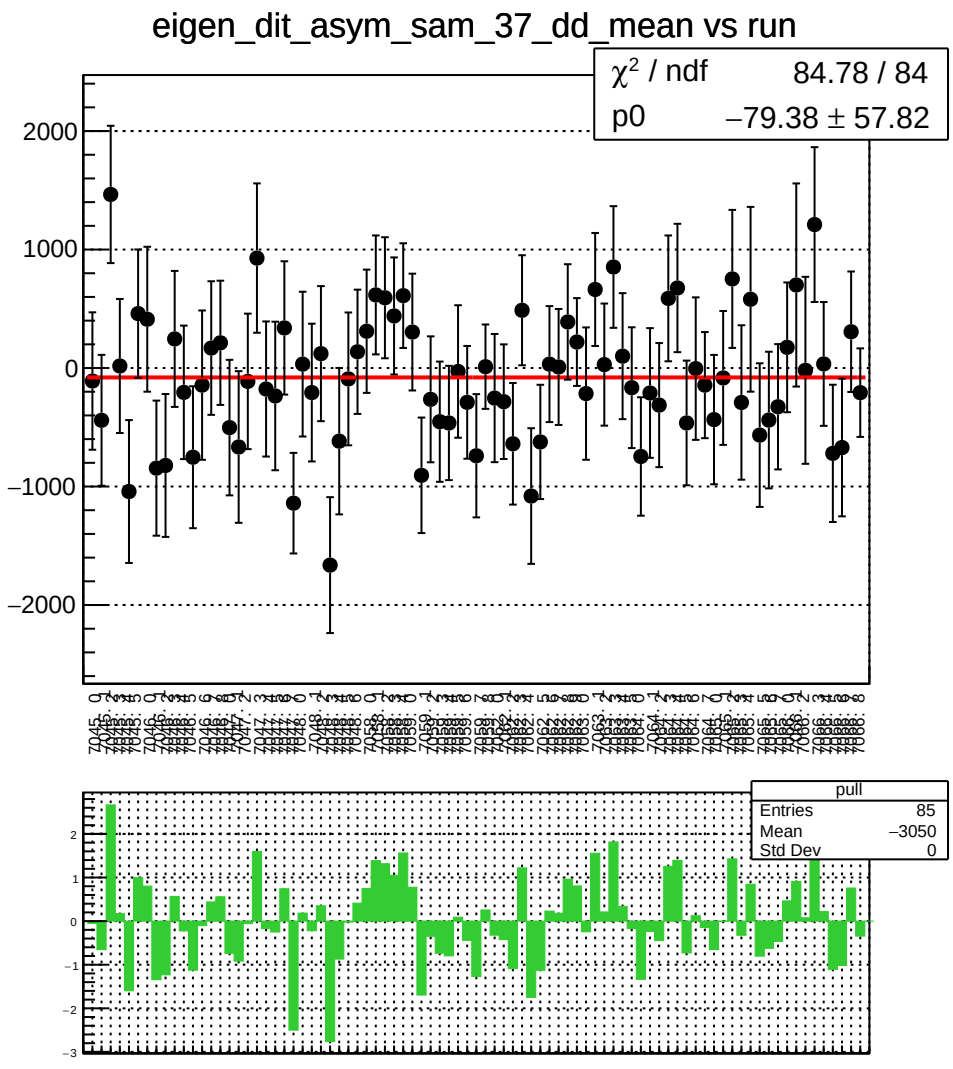

pull1D
Entries 85
Mean −0.0005575
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

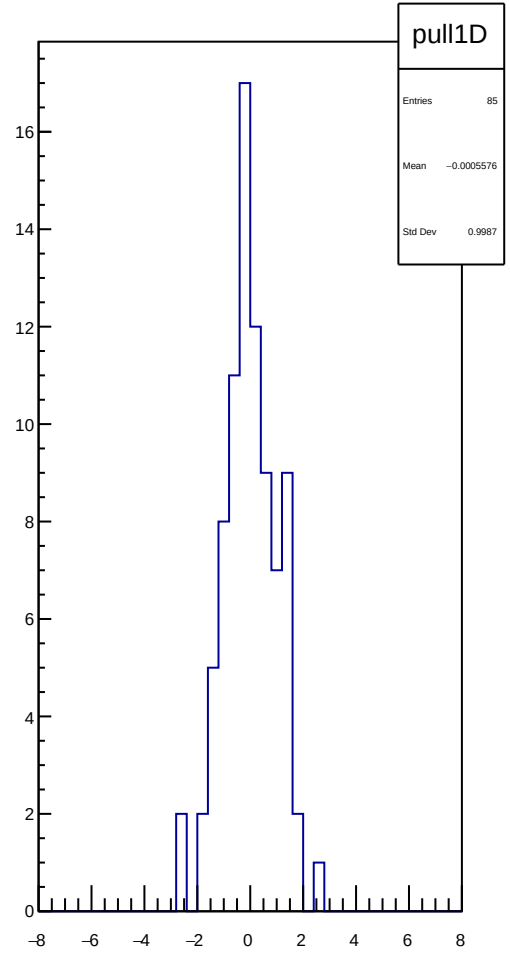

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.799e+04 / 84
p0 52.19 ± 0.04089
85
80
75
70
65
60
55
50
45
40

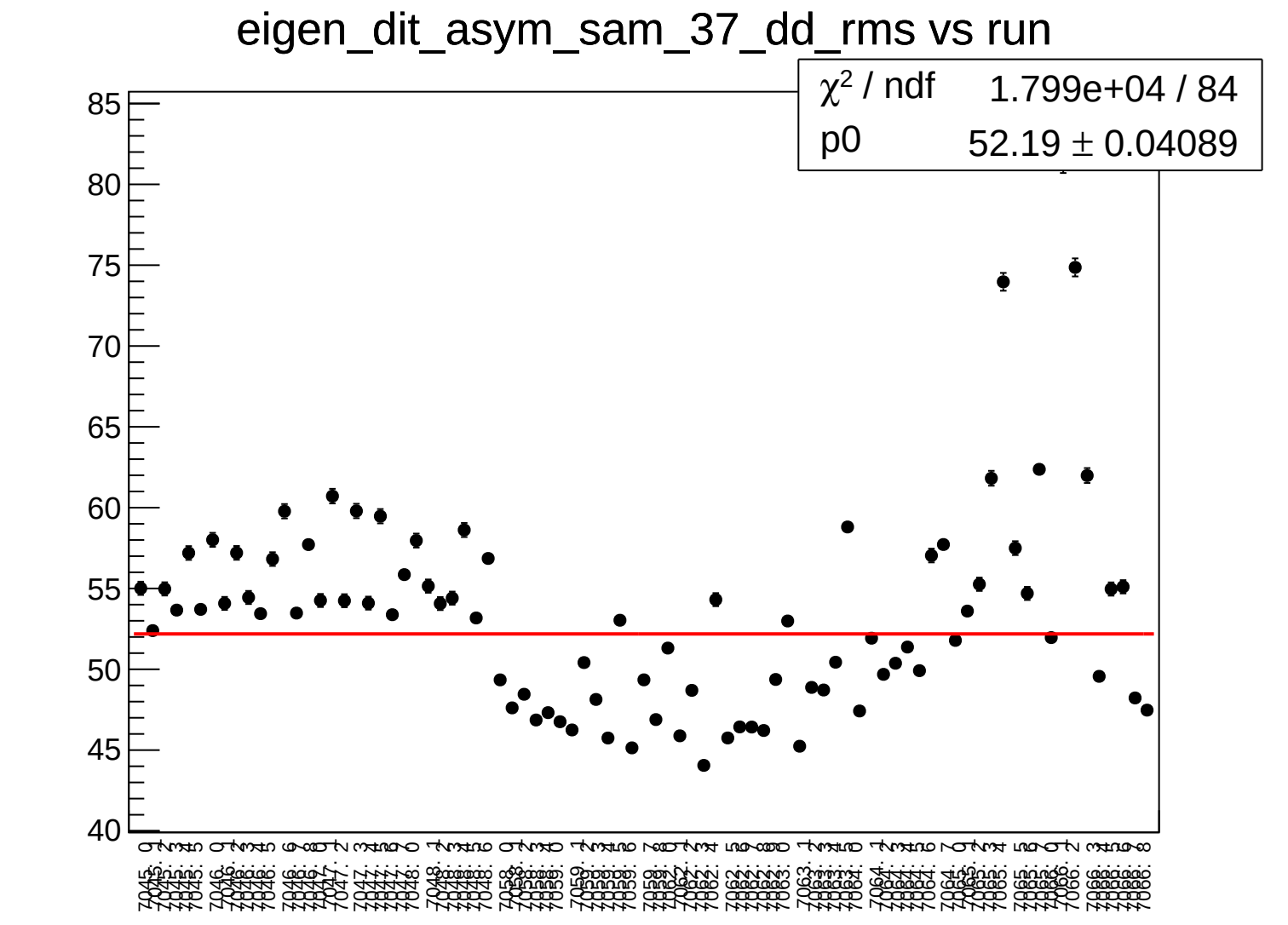

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 67.25 / 84
p0 −706.1 ± 353.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −242.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

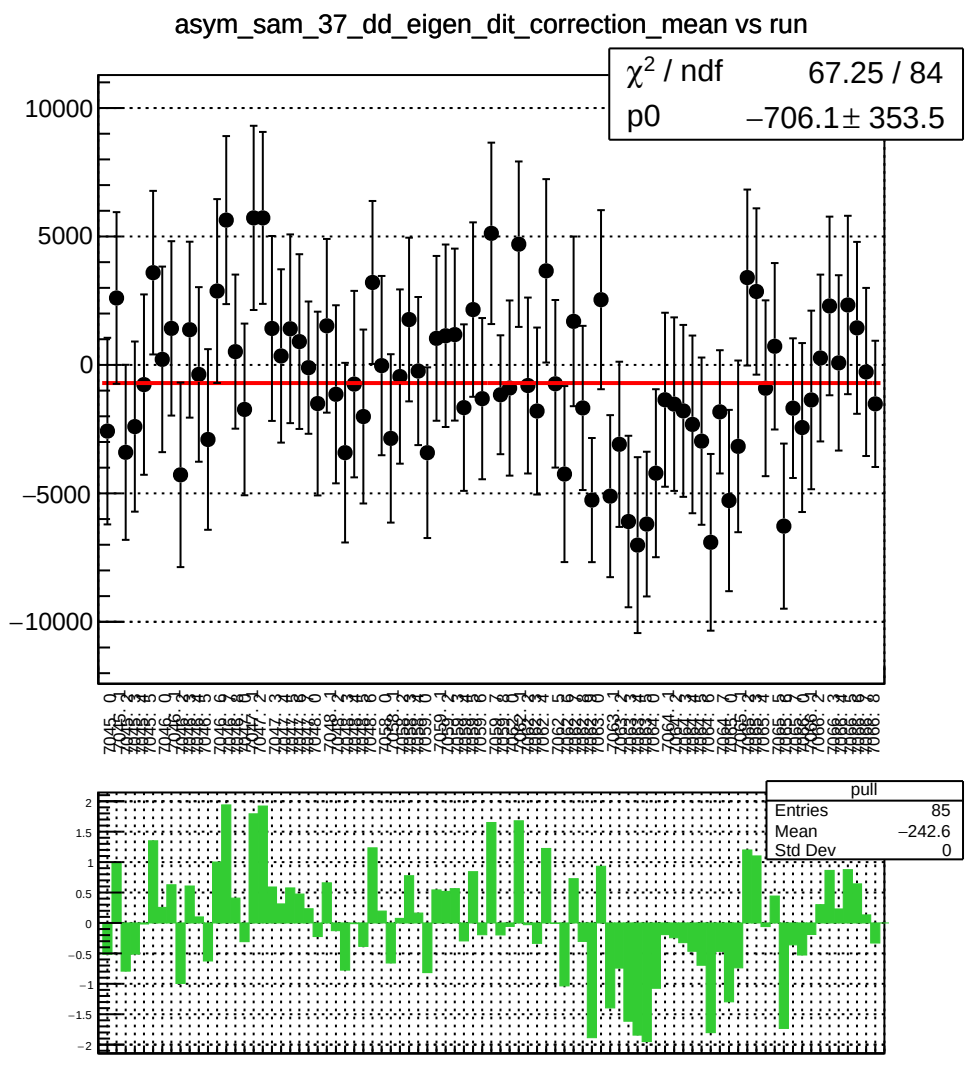

pull1D
Entries 85
Mean 0.01905
Std Dev 0.8893
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

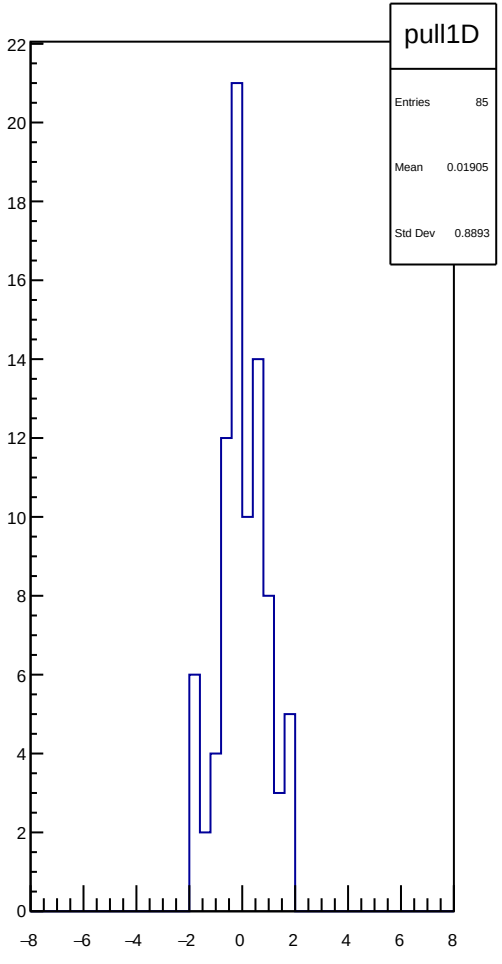

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2310 / 84
p0 320.6 ± 0.25
350
340
330
320
310
300
290

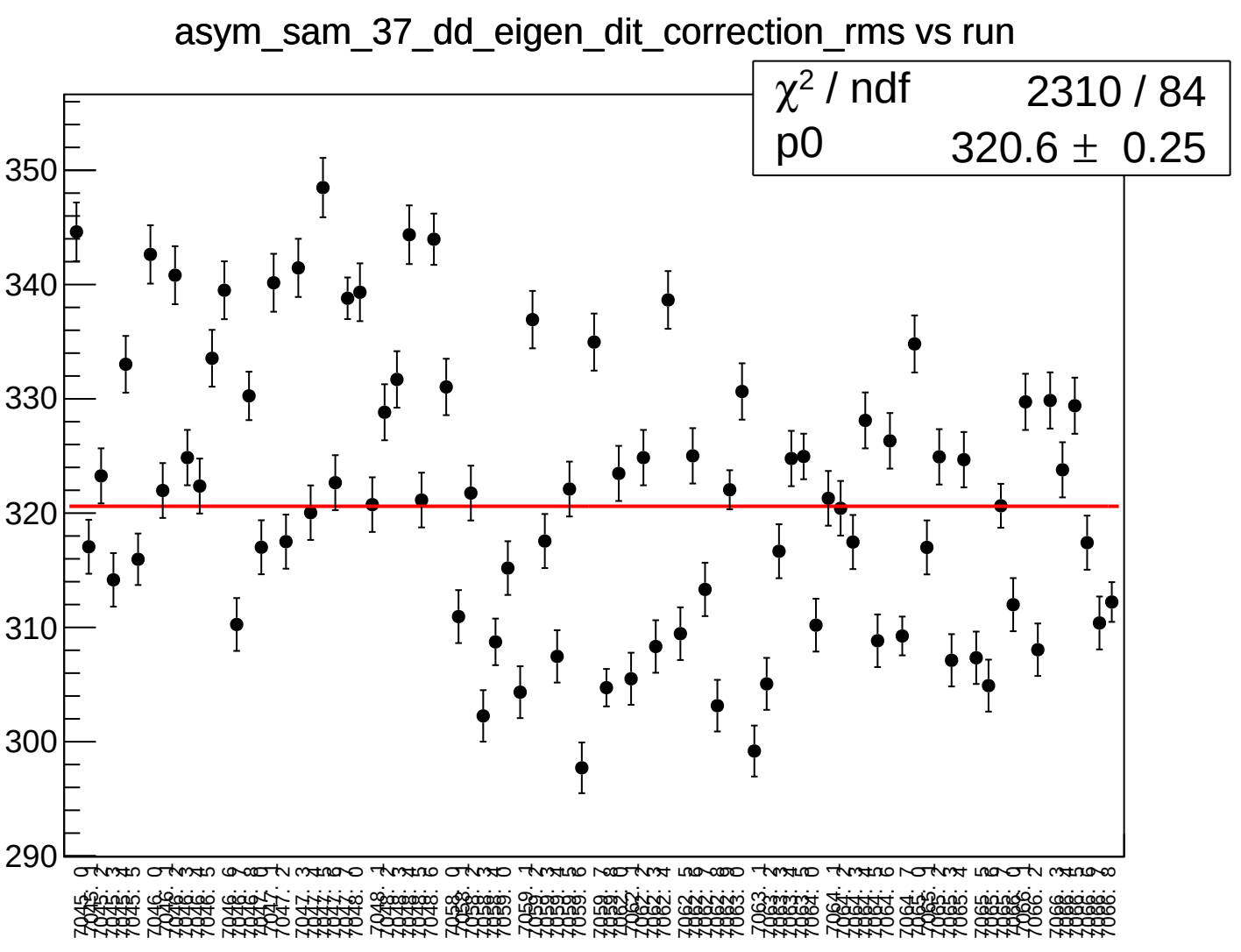

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 84.78 / 84
p0 −79.38 ± 57.82
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −3050
Std Dev 0

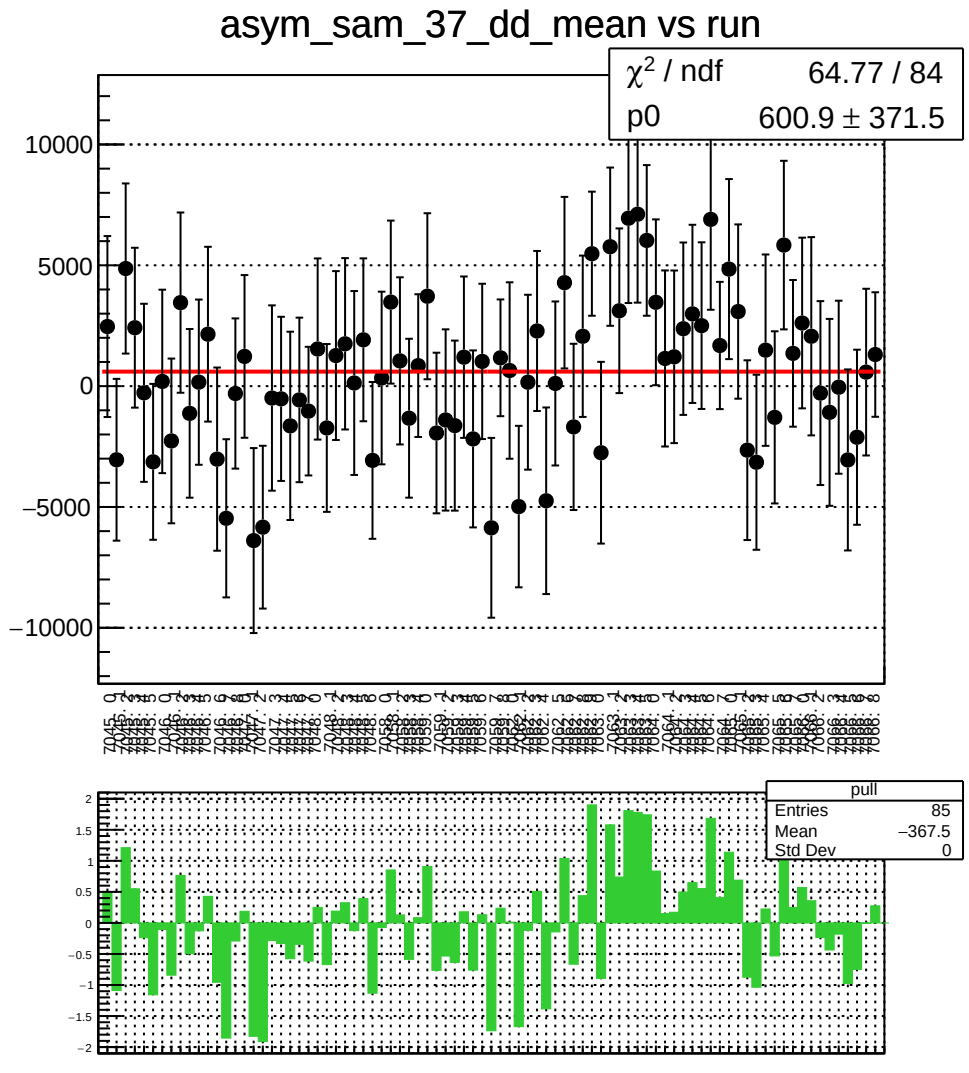

pull1D
Entries 85
Mean −0.0005576
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

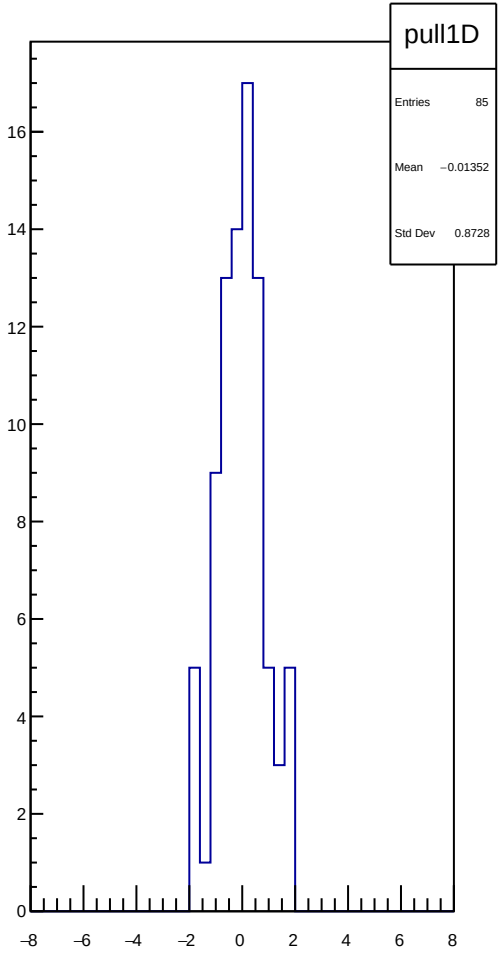

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.799e+04 / 84
p0 52.19 ± 0.04089
85
80
75
70
65
60
55
50
45
40

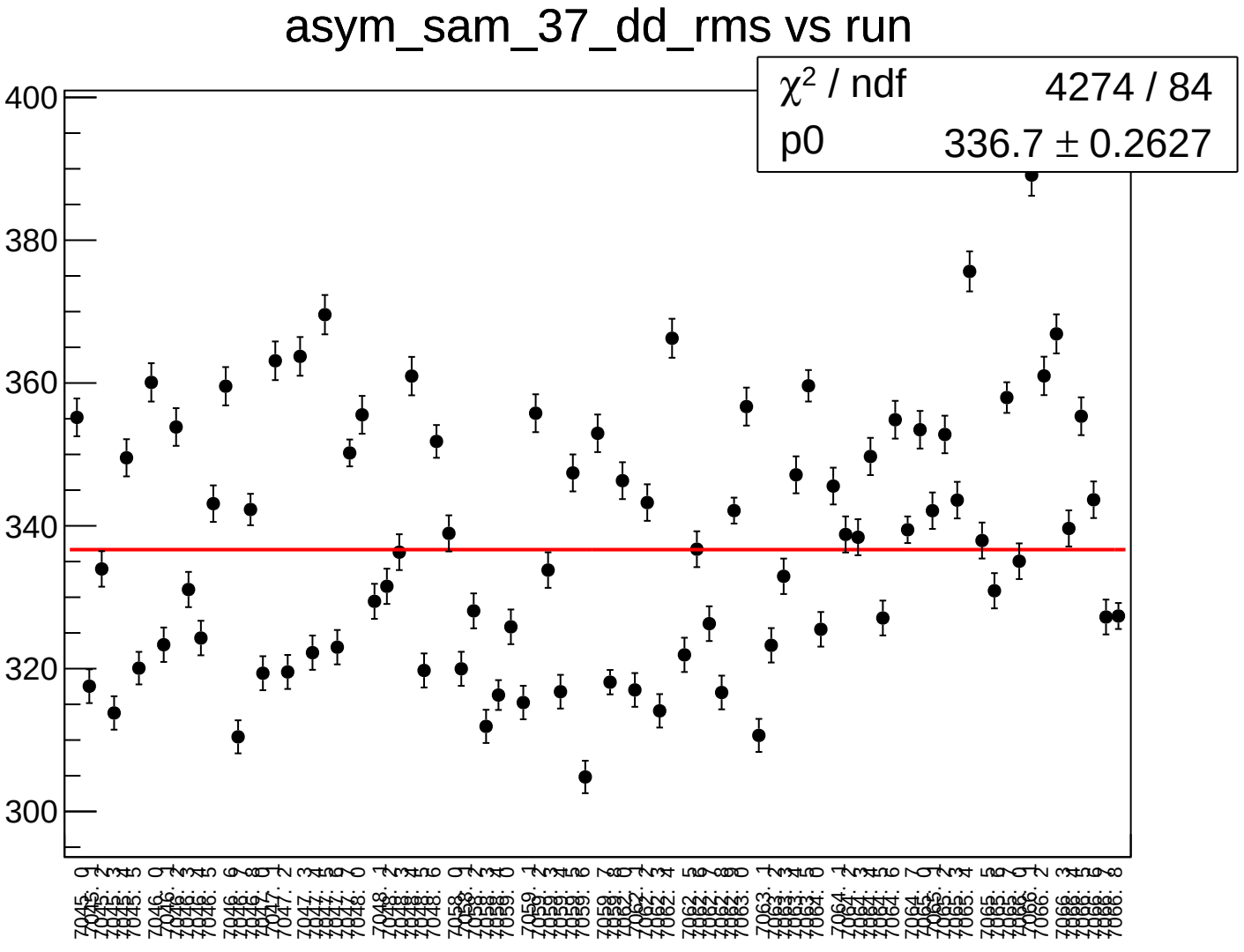

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.25 / 84
p0 −706.1 ± 353.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −242.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

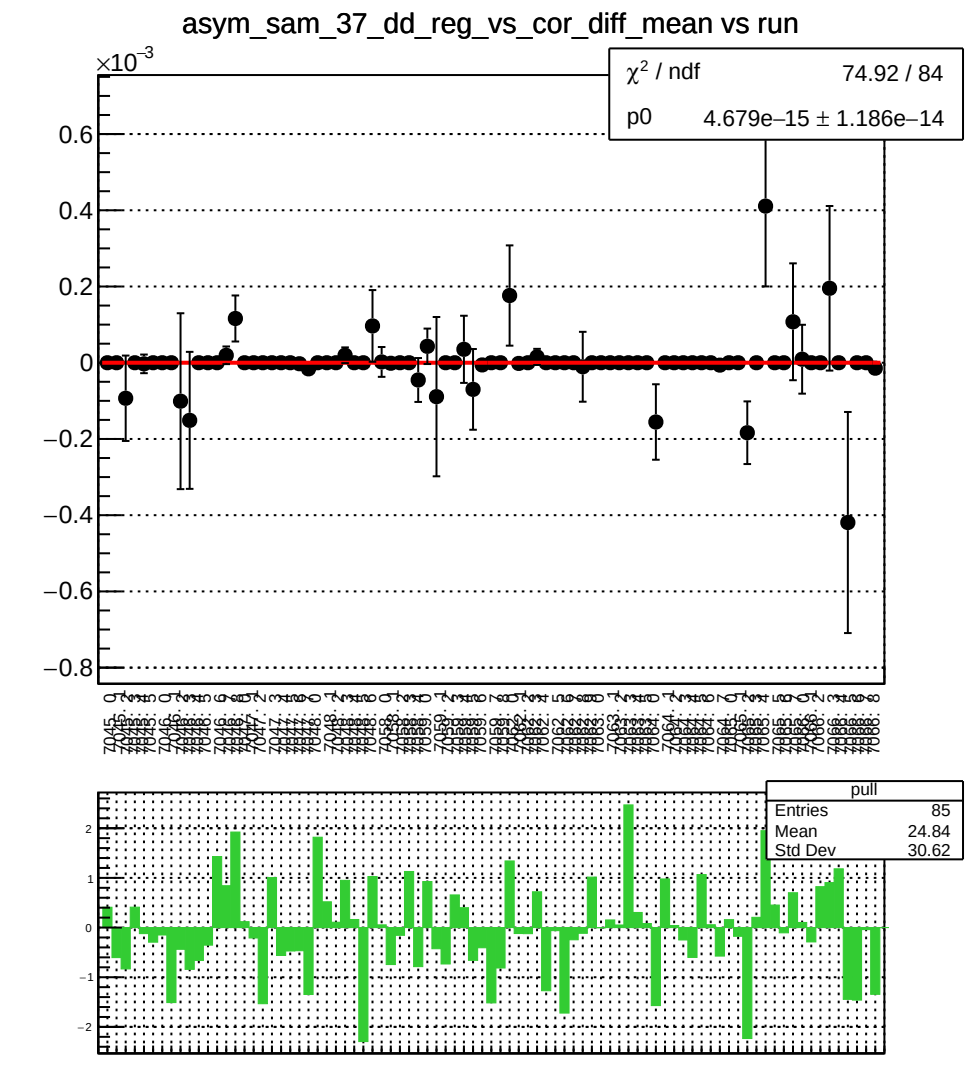

pull1D
Entries 85
Mean 0.01905
Std Dev 0.8893
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

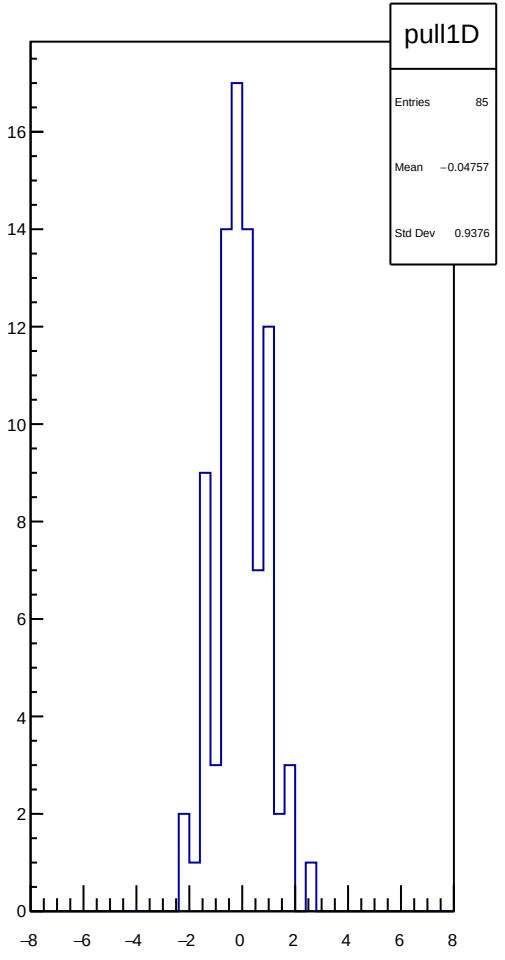

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2310 / 84
p0 320.6 ± 0.25
350
340
330
320
310
300
290

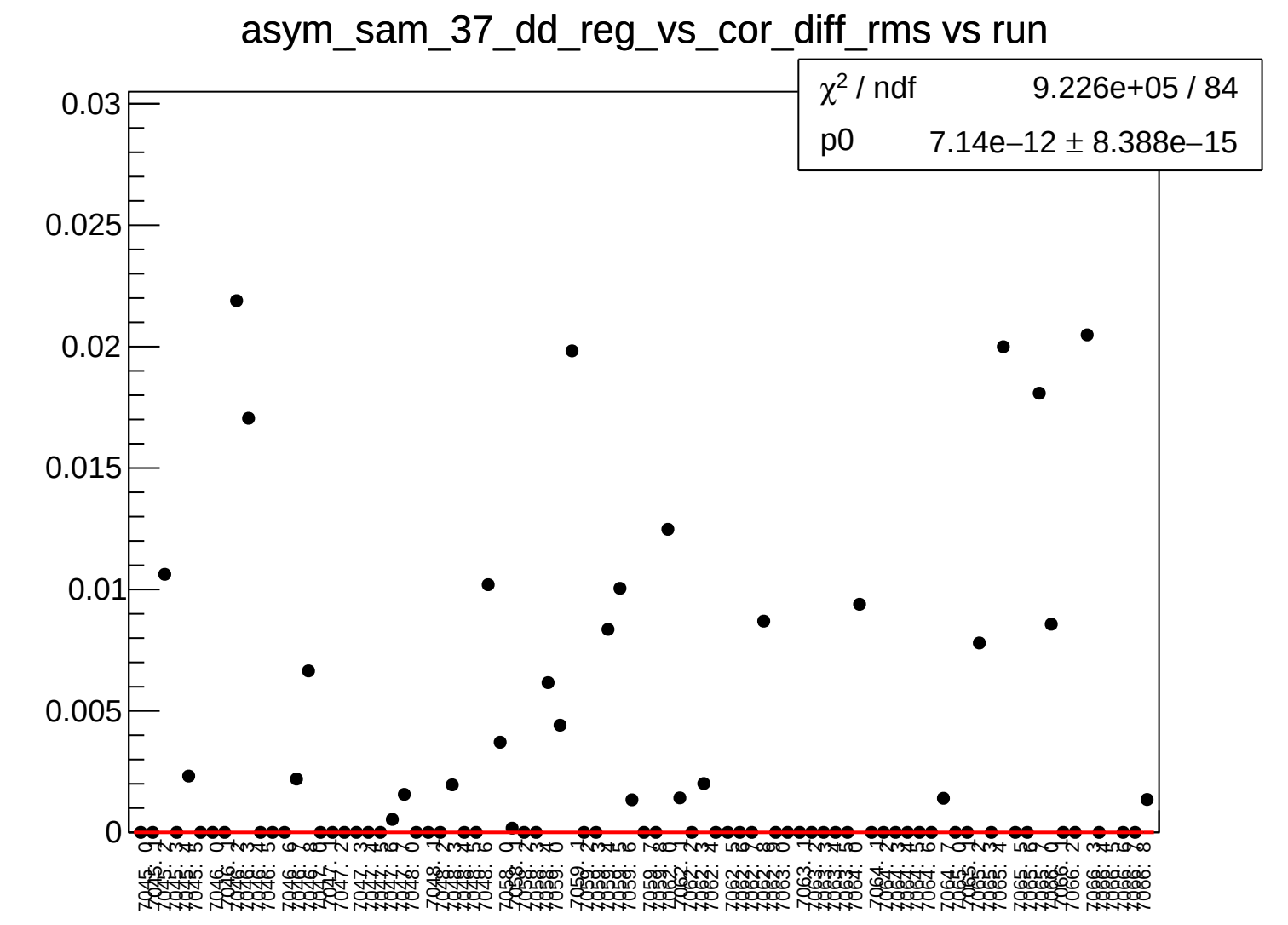

asym_sam_37_dd_mean vs run
χ² / ndf 64.77 / 84
p0 600.9 ± 371.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −367.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

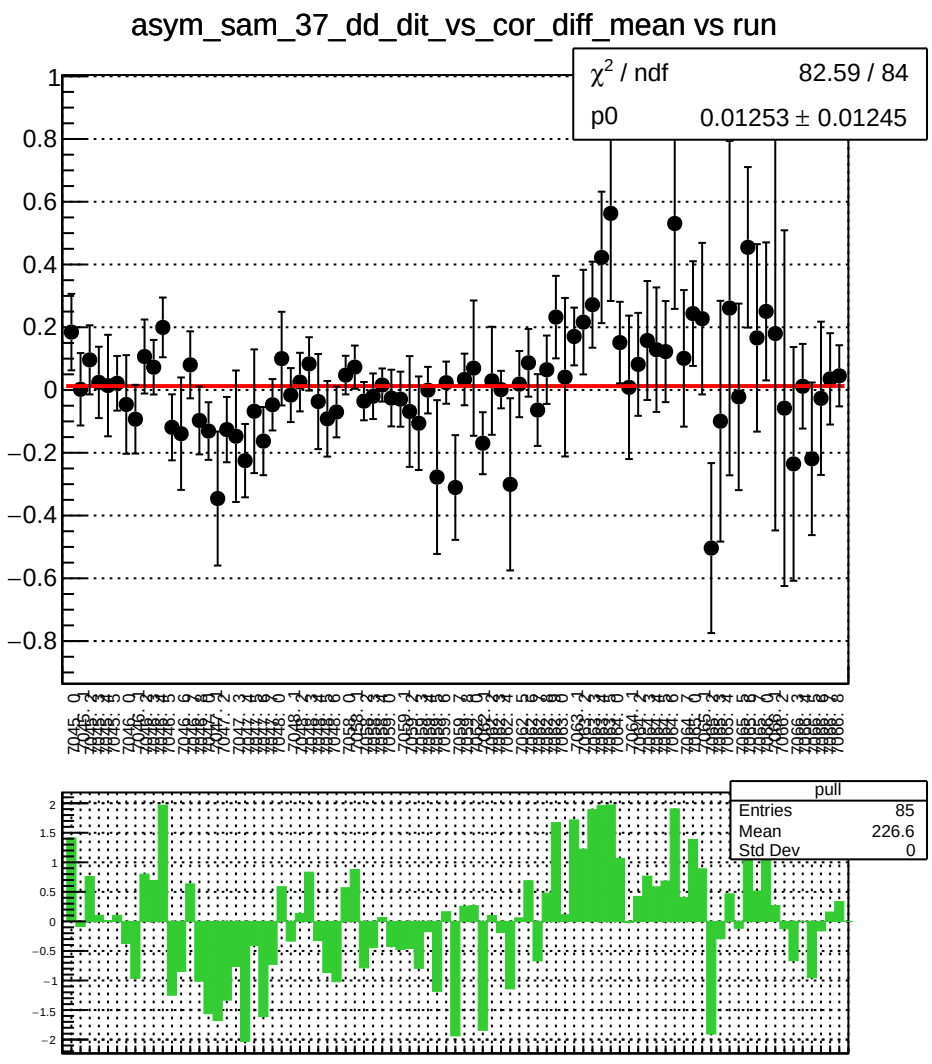

pull1D
Entries 85
Mean −0.01352
Std Dev 0.8728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

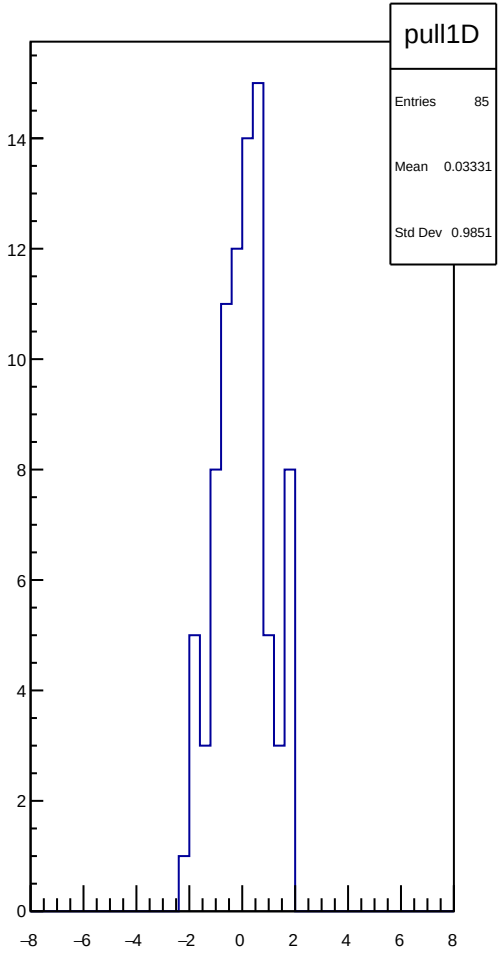

asym_sam_37_dd_rms vs run
χ² / ndf 4274 / 84
p0 336.7 ± 0.2627
400
380
360
340
320
300

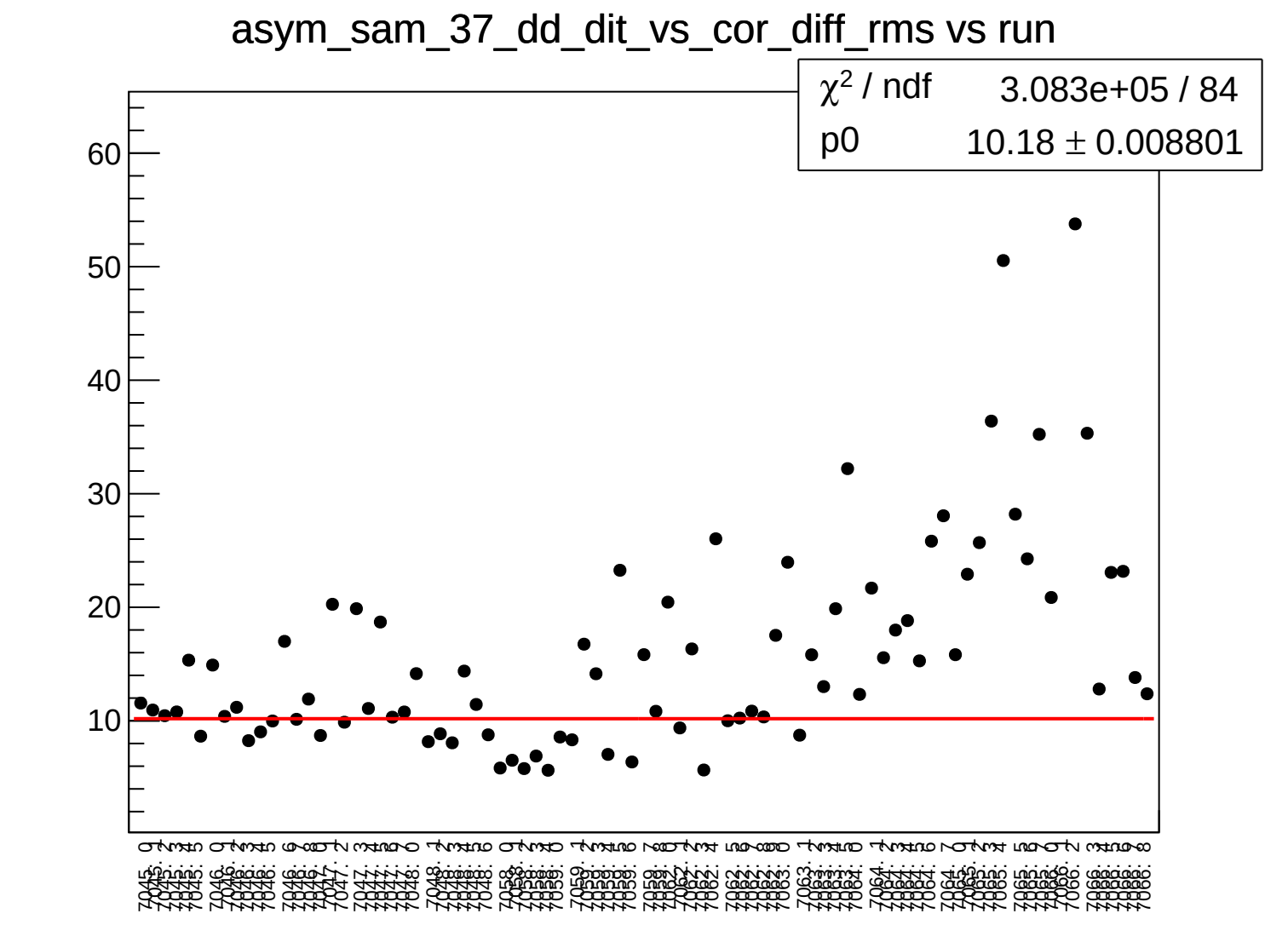

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 74.92 / 84
p0 4.679e−15 ± 1.186e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 85
Mean 24.84
Std Dev 30.62
2
1
0
−1
−2

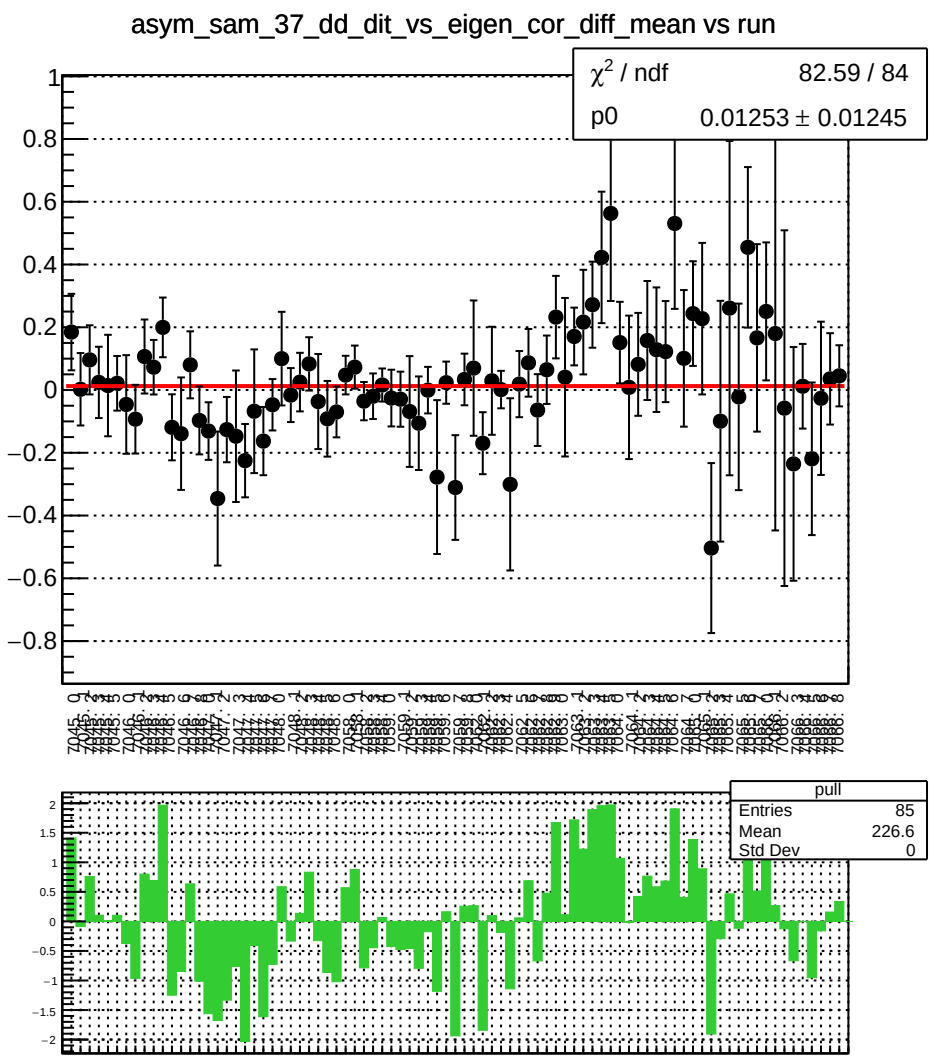

pull1D
Entries 85
Mean −0.04757
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

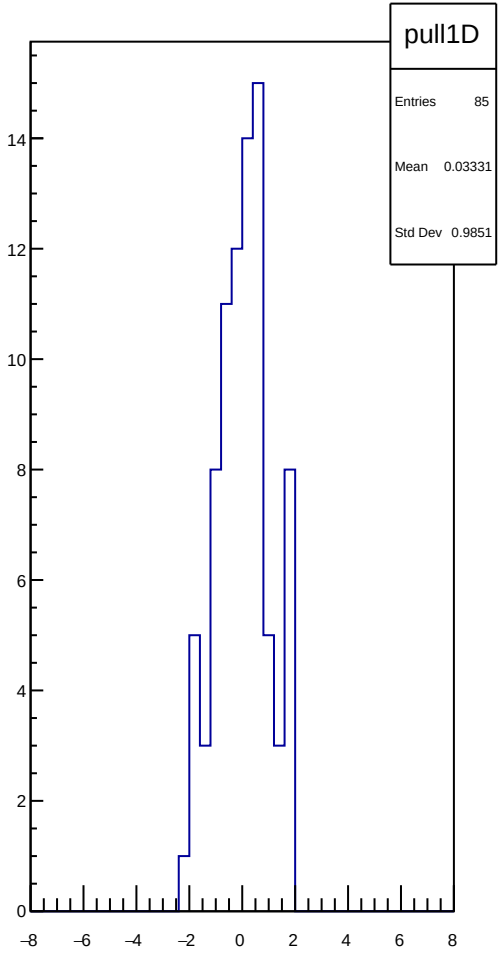

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.226e+05 / 84
p0 7.14e−12 ± 8.388e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

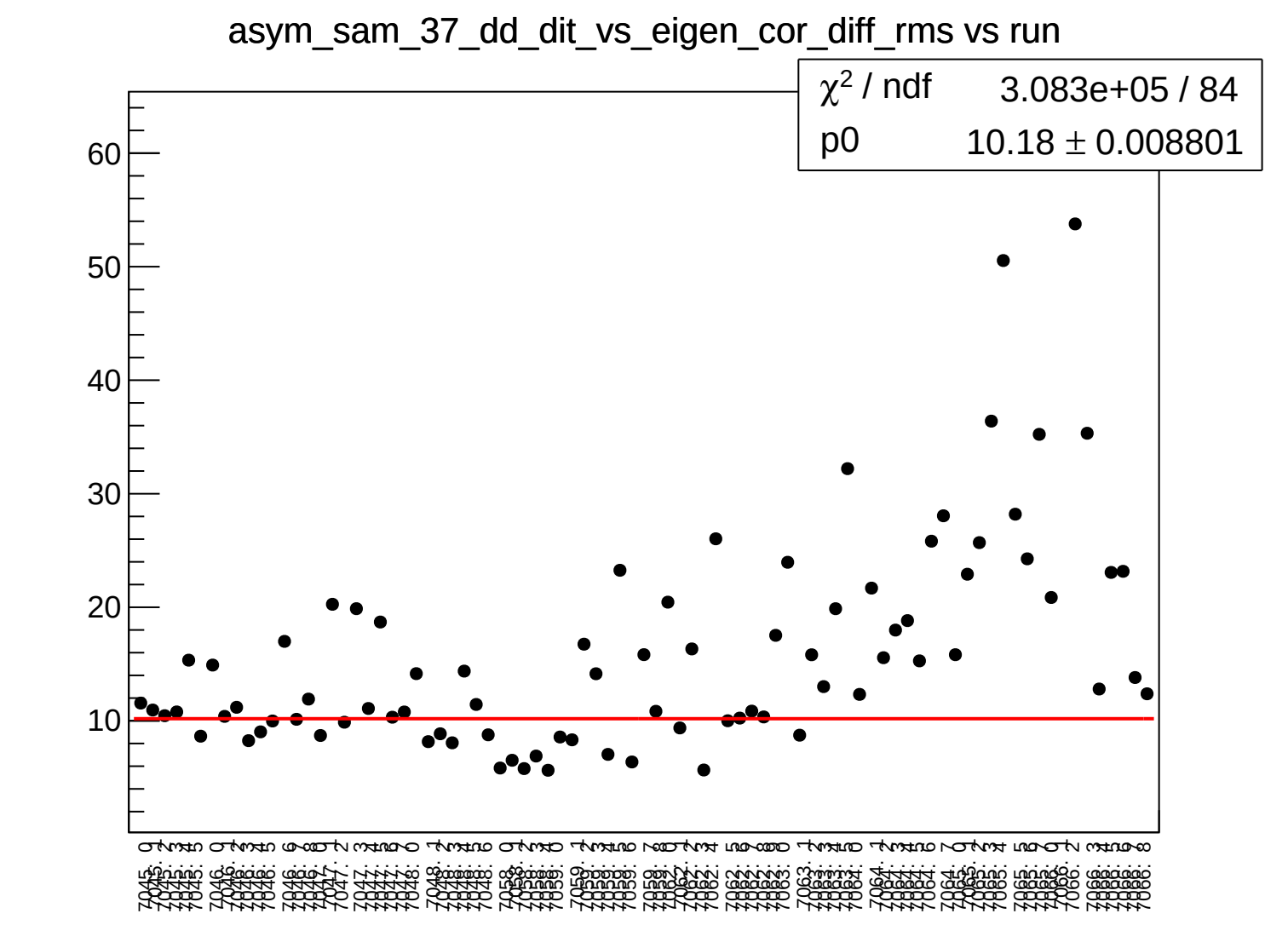

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.59 / 84
p0 0.01253 ± 0.01245
pull
Entries 85
Mean 226.6
Std Dev 0

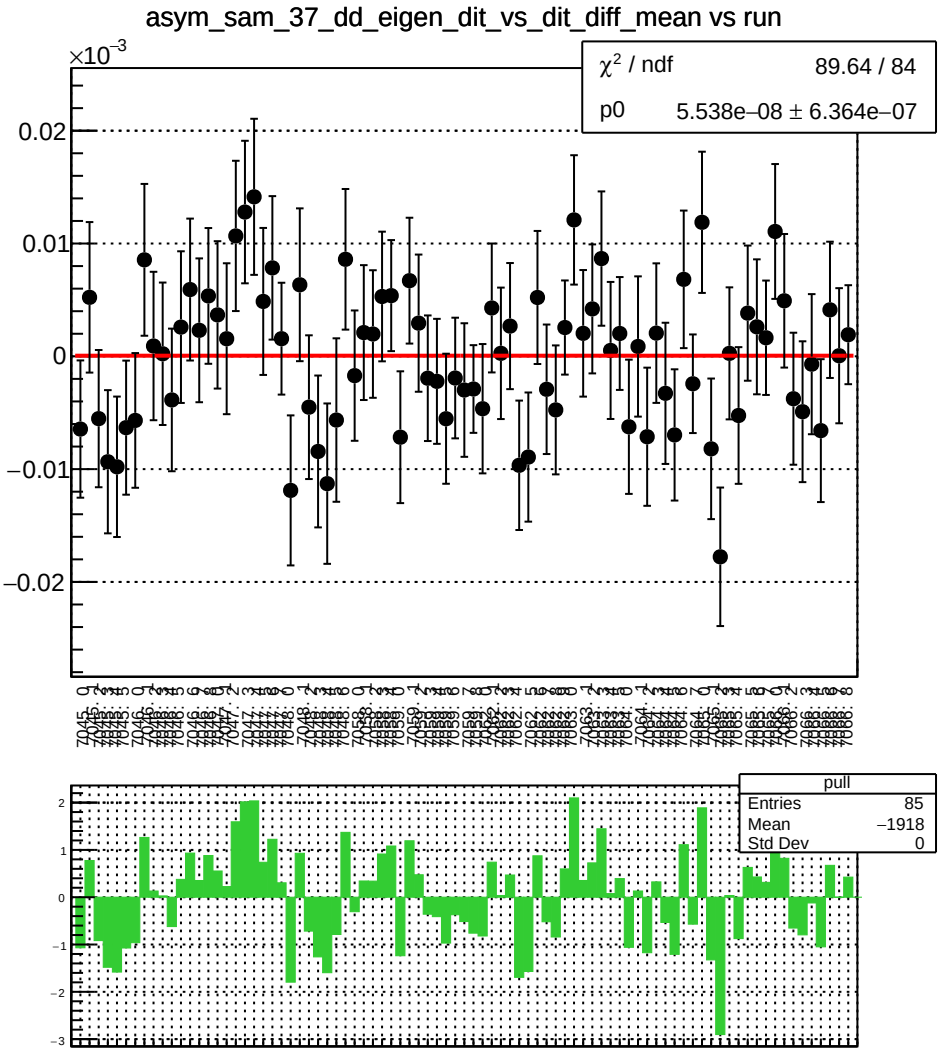

pull1D
Entries 85
Mean 0.03331
Std Dev 0.9851

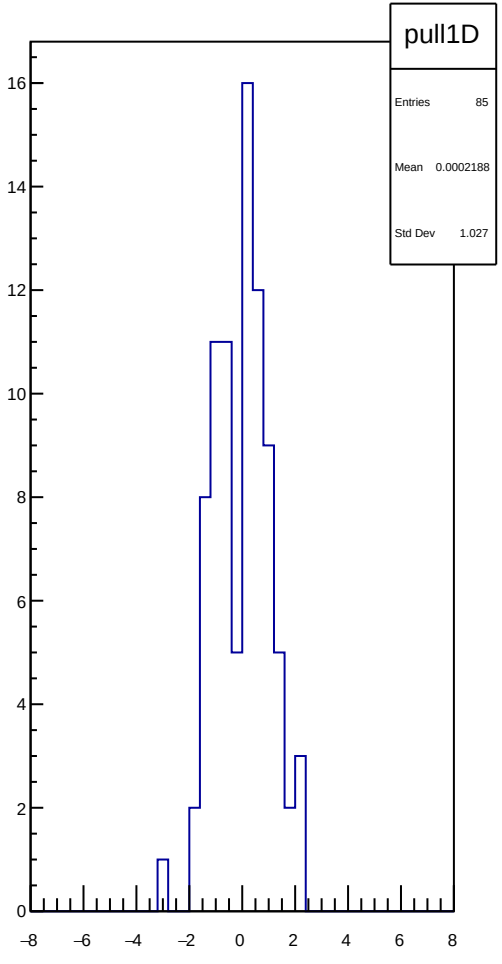

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.083e+05 / 84
p0 10.18 ± 0.008801
60
50
40
30
20
10

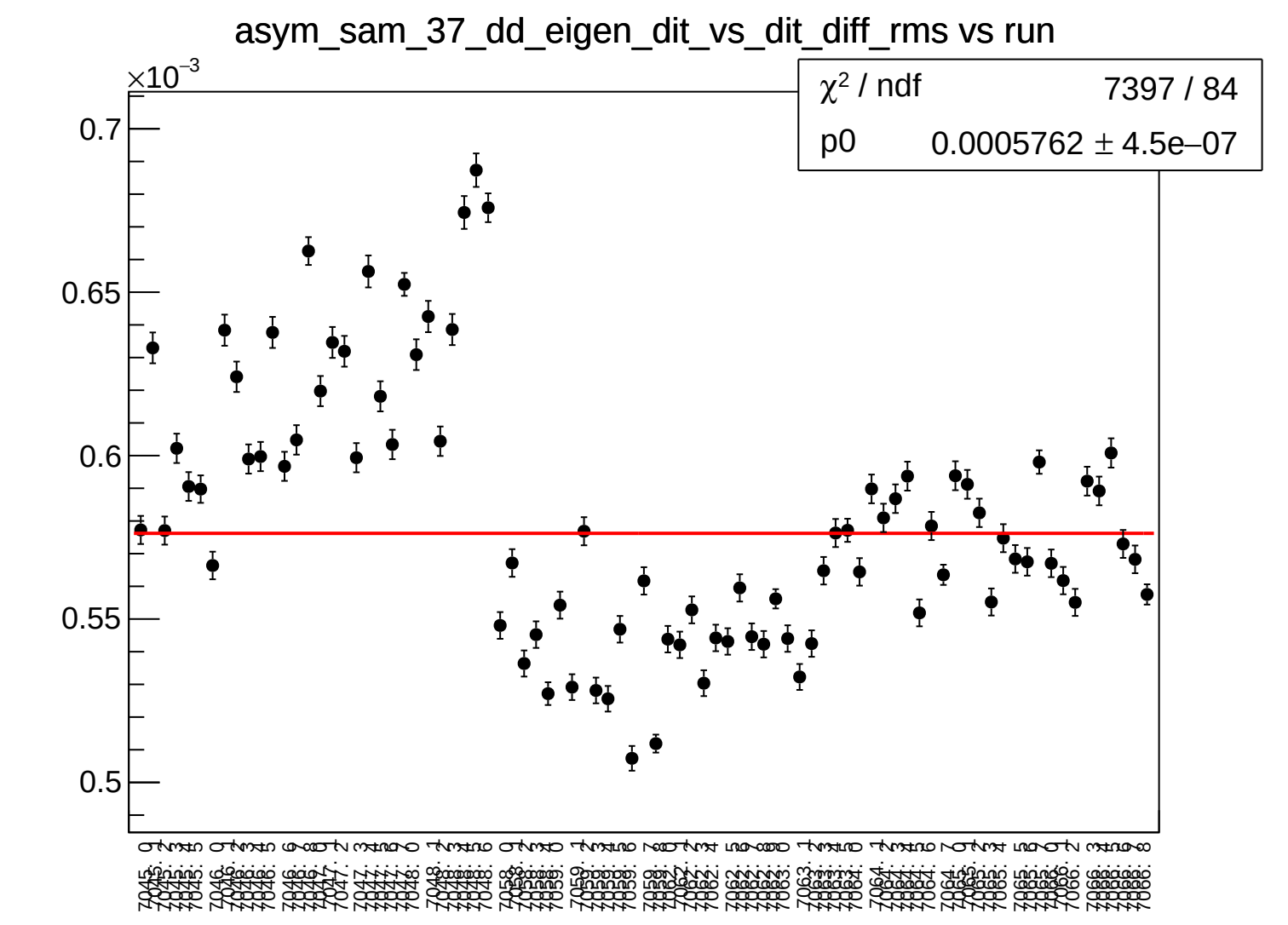

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.59 / 84
p0 0.01253 ± 0.01245
pull
Entries 85
Mean 226.6
Std Dev 0

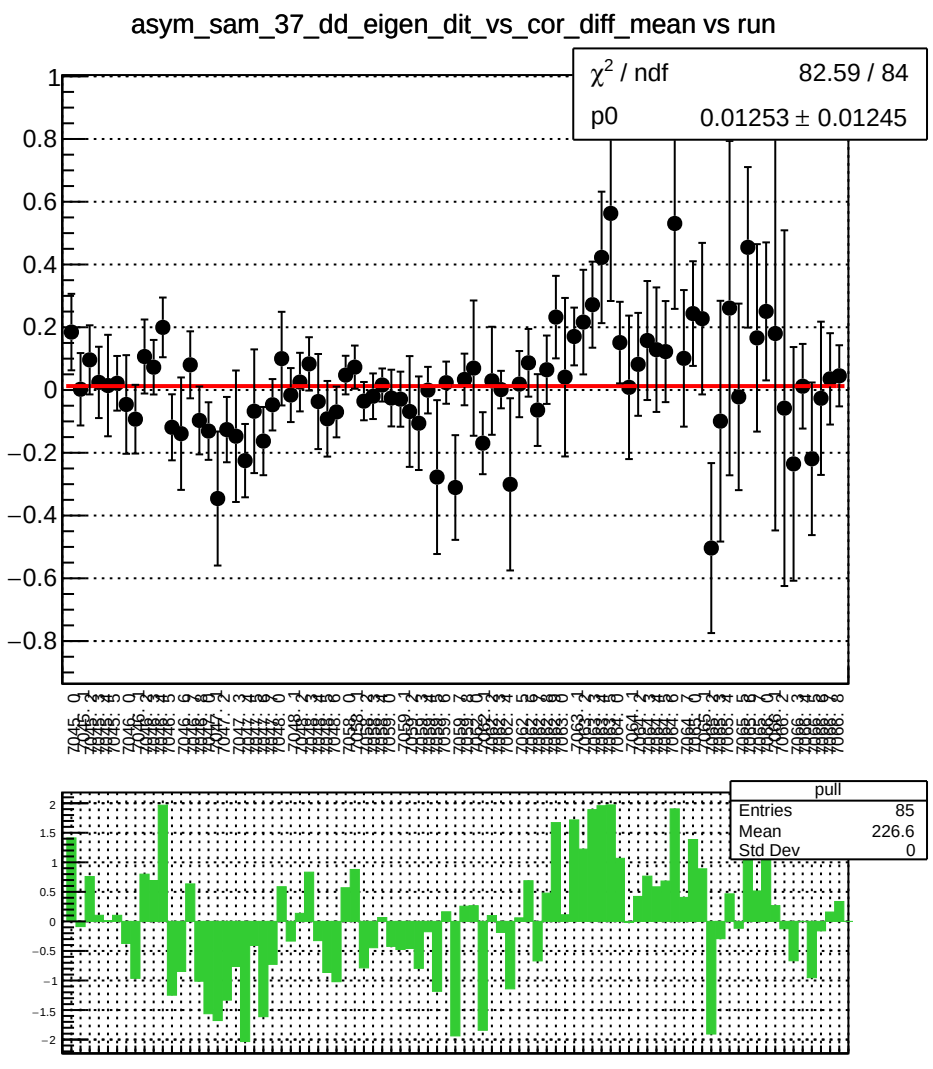

pull1D
Entries 85
Mean 0.03331
Std Dev 0.9851

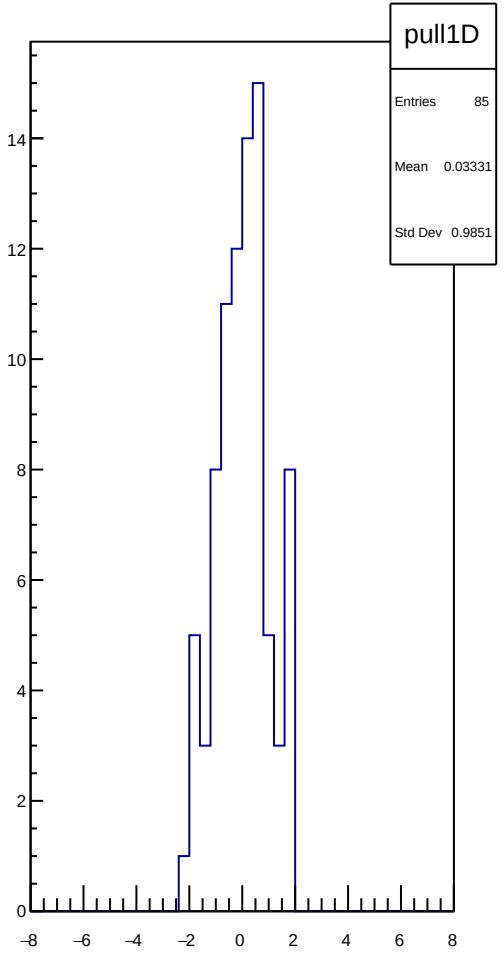

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.083e+05 / 84
p0 10.18 ± 0.008801
60
50
40
30
20
10

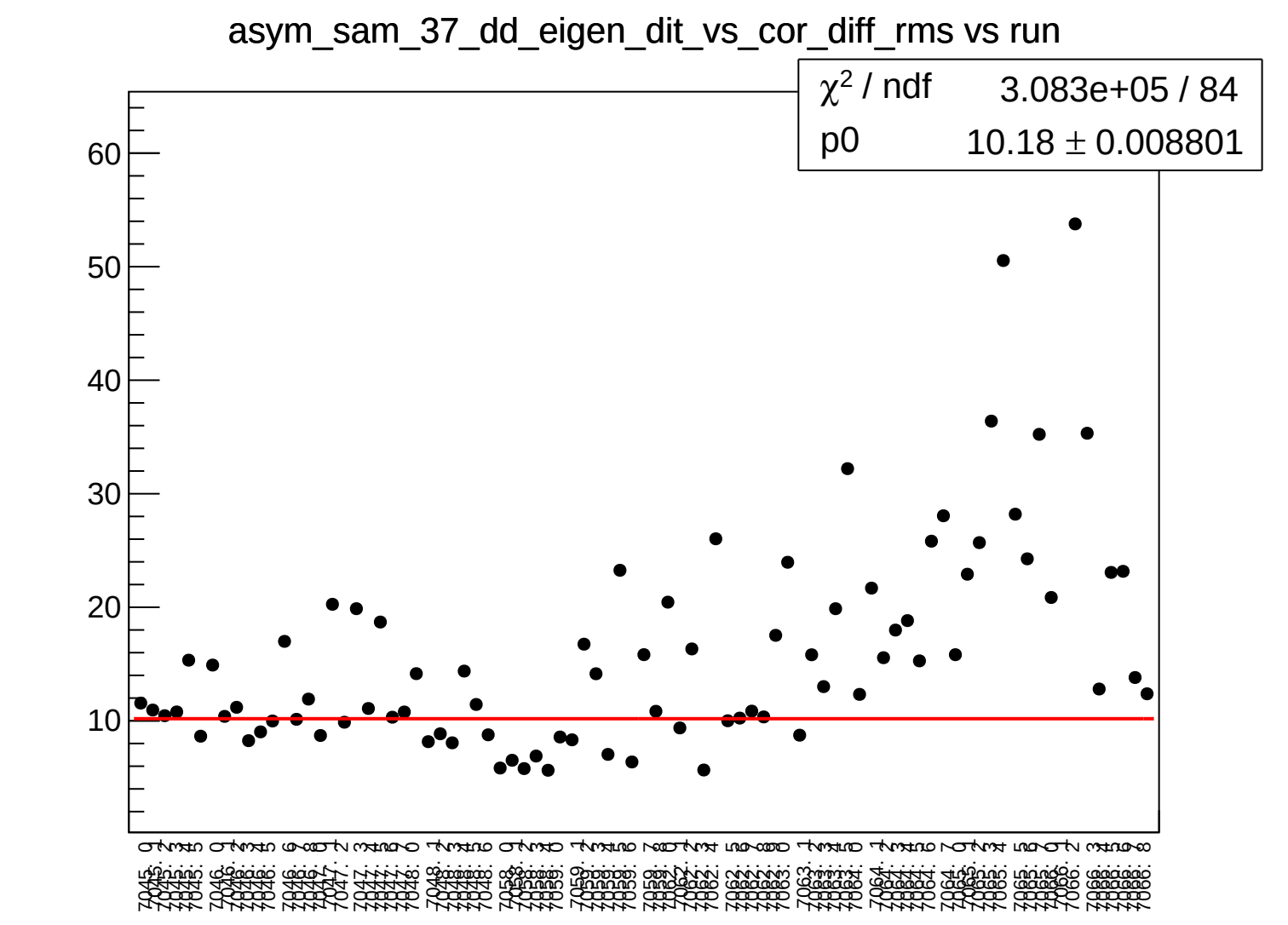

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 89.64 / 84
p0 5.538e−08 ± 6.364e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −1918
Std Dev 0
2
1
0
−1
−2
−3

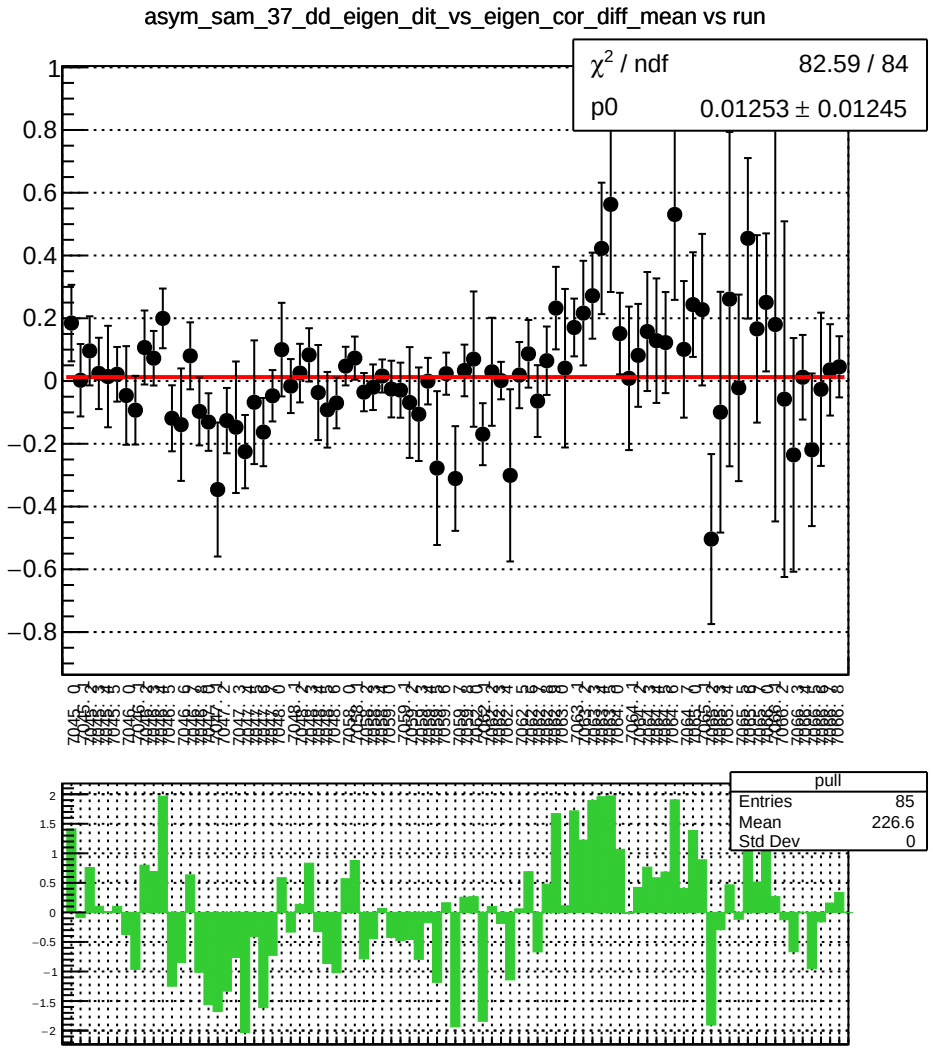

pull1D
Entries 85
Mean 0.0002188
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

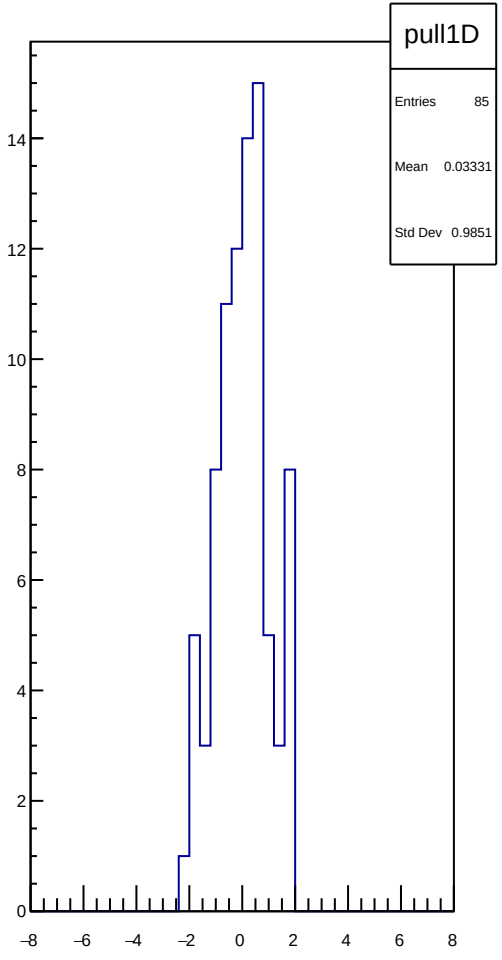

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7397 / 84
p0 0.0005762 ± 4.5e–07
0.7
0.65
0.6
0.55
0.5

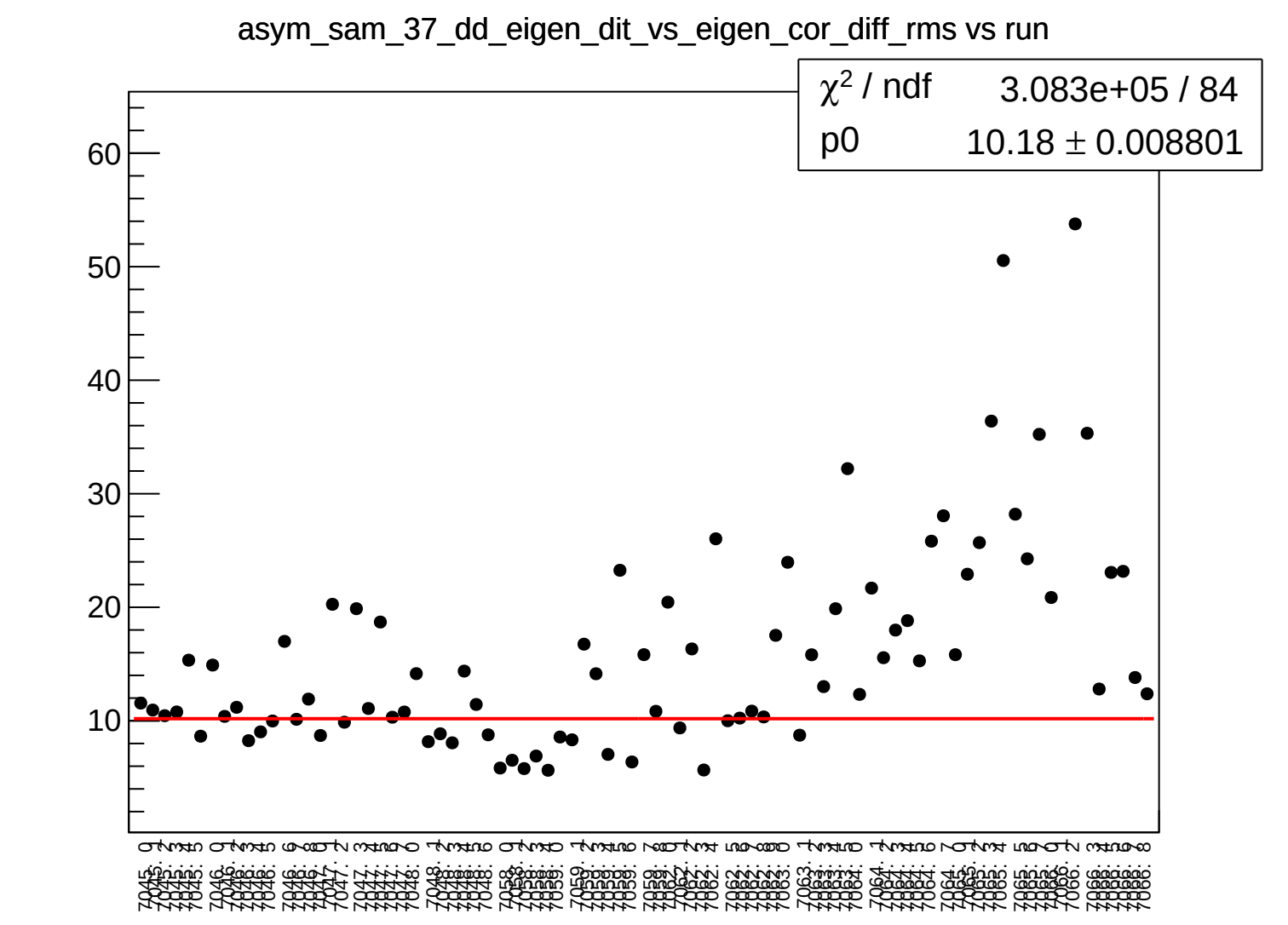

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.59 / 84
p0 0.01253 ± 0.01245
pull
Entries 85
Mean 226.6
Std Dev 0

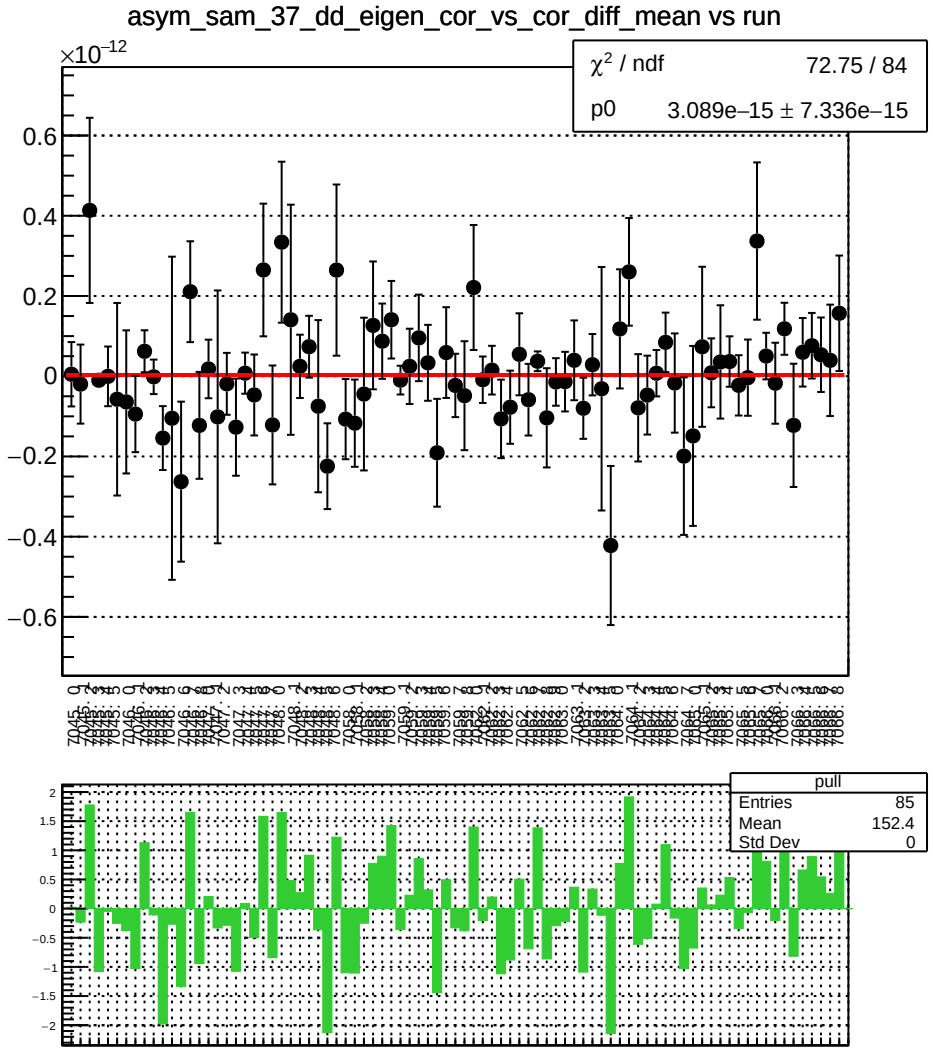

pull1D
Entries 85
Mean 0.03331
Std Dev 0.9851

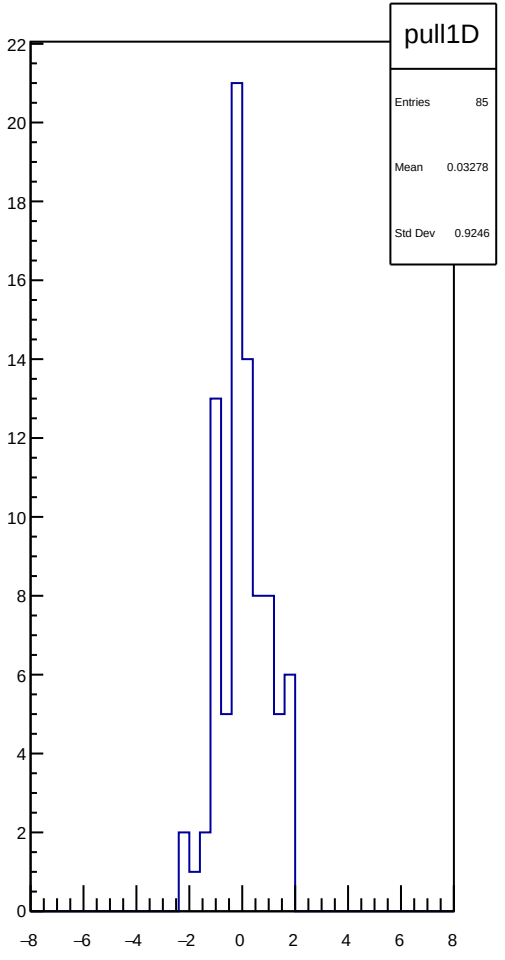

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.083e+05 / 84
p0 10.18 ± 0.008801
60
50
40
30
20
10

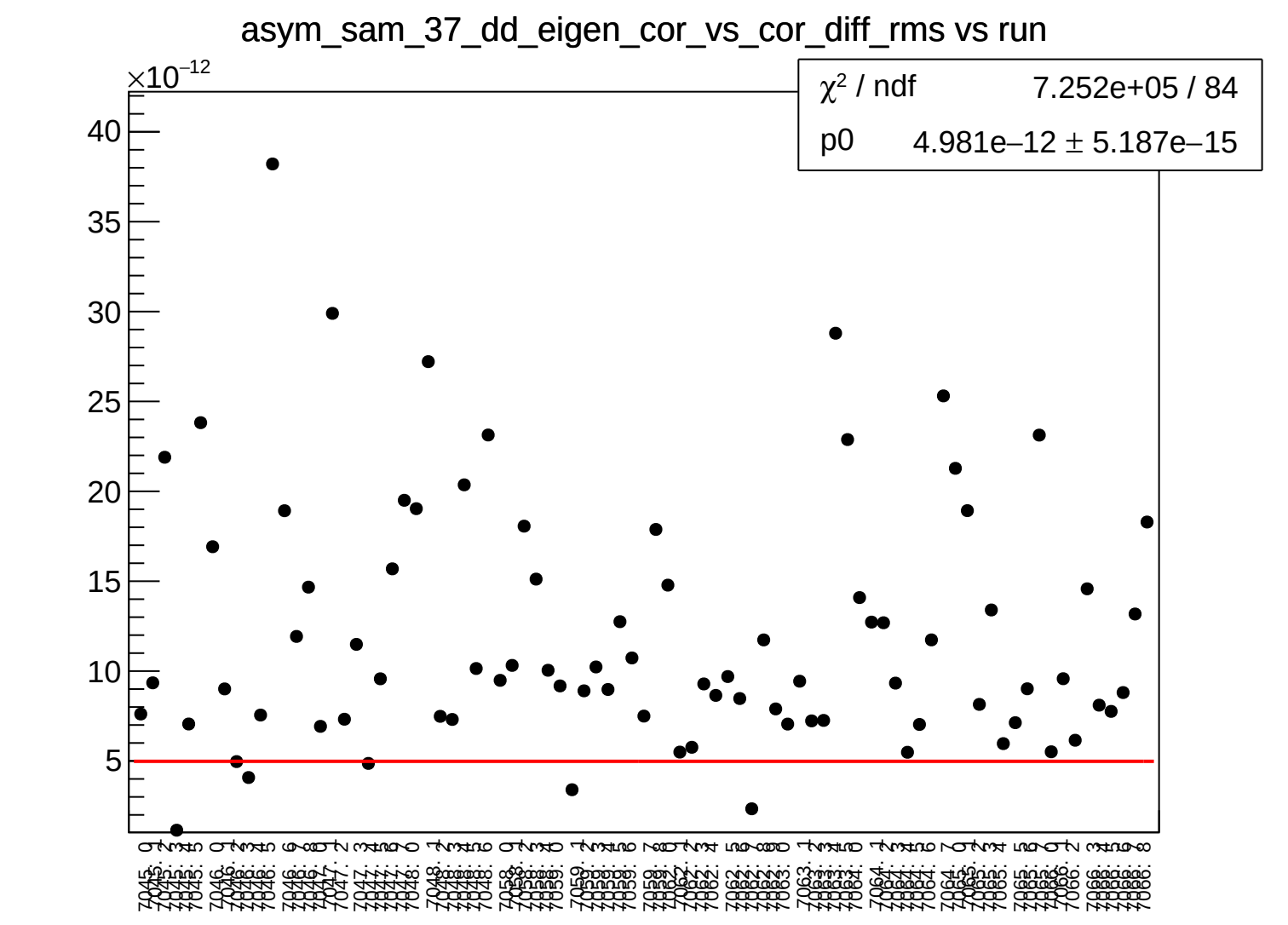

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.59 / 84
p0 0.01253 ± 0.01245
pull
Entries 85
Mean 226.6
Std Dev 0

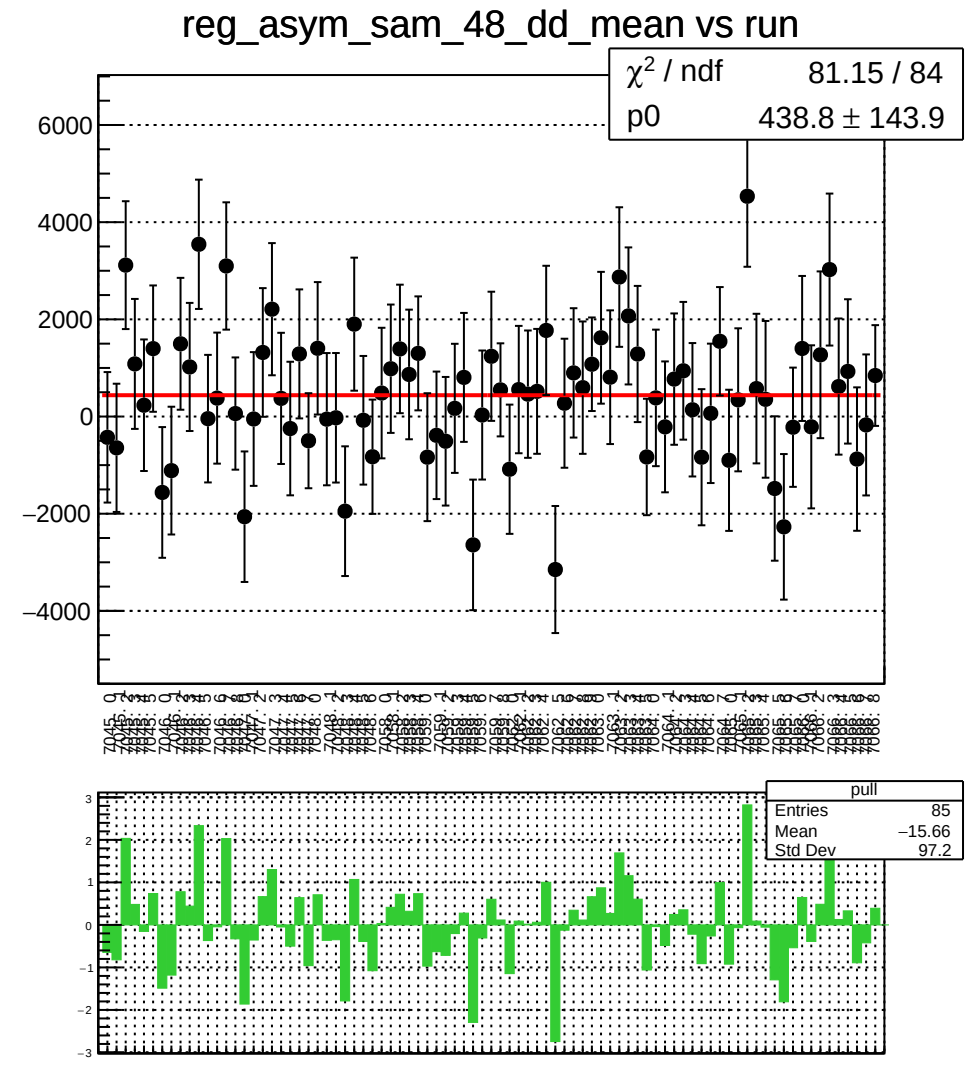

pull1D
Entries 85
Mean 0.03331
Std Dev 0.9851

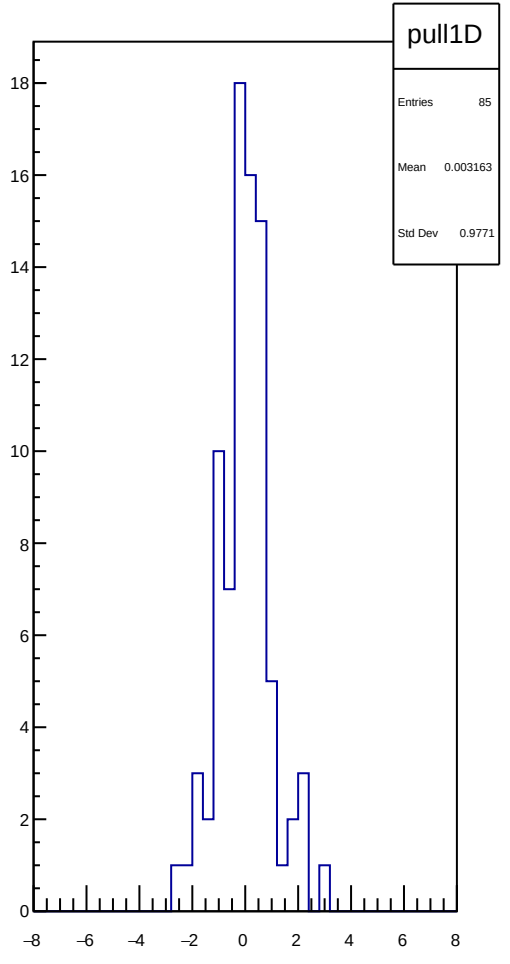

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.083e+05 / 84
p0 10.18 ± 0.008801
60
50
40
30
20
10

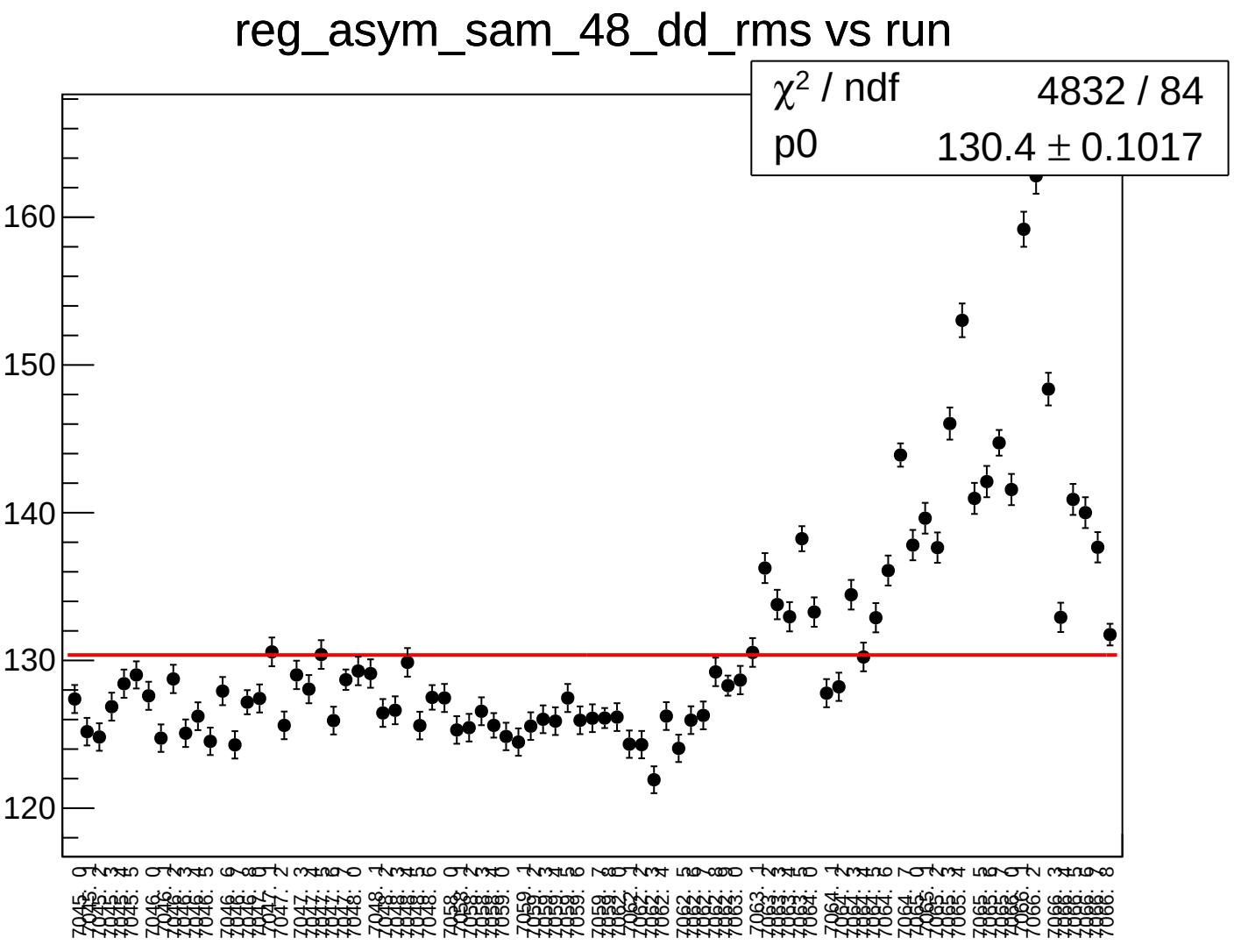

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.75 / 84
p0 3.089e−15 ± 7.336e−15
pull
Entries 85
Mean 152.4
Std Dev 0

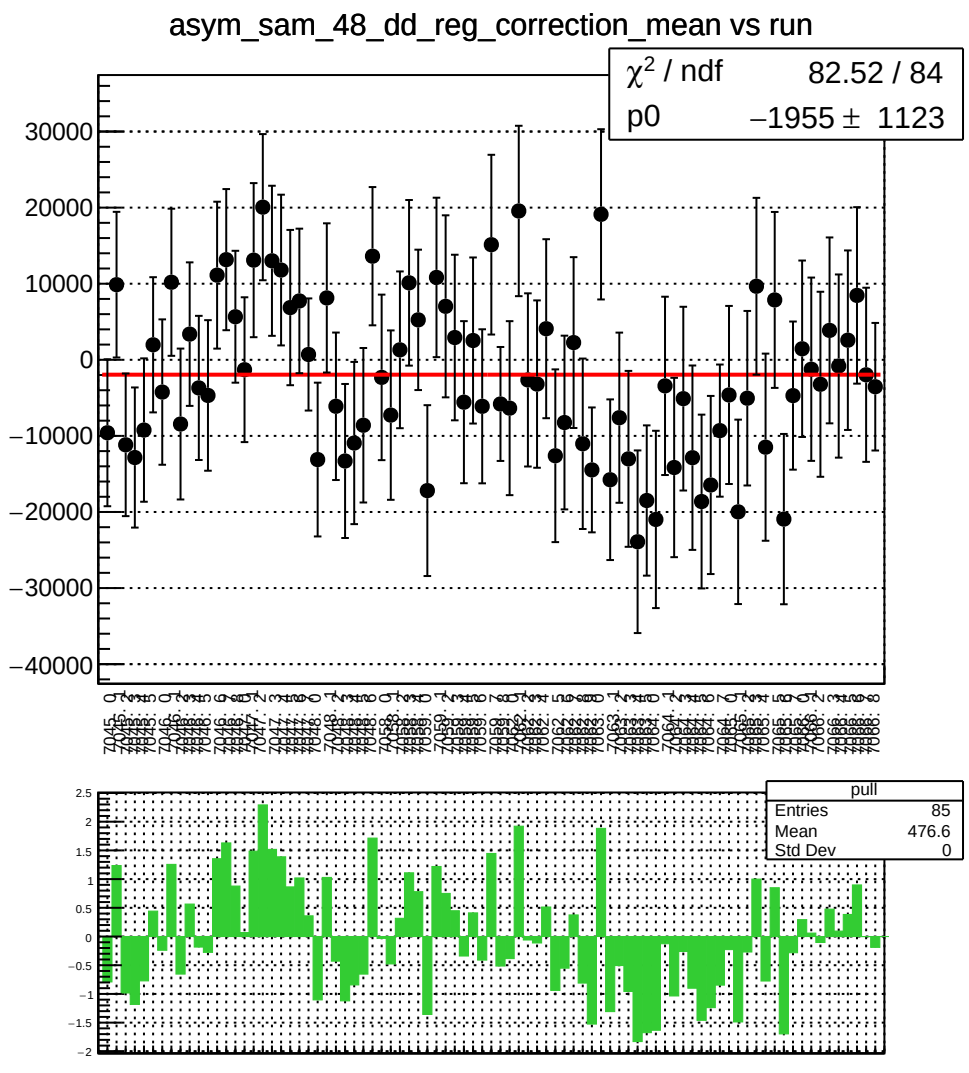

pull1D
Entries 85
Mean 0.03278
Std Dev 0.9246

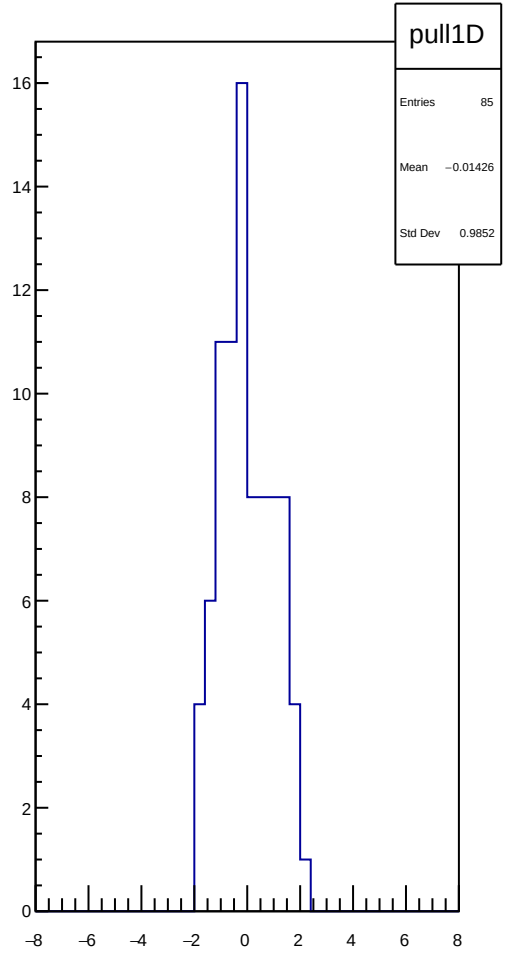

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.252e+05 / 84
p0 4.981e−12 ± 5.187e−15
40
35
30
25
20
15
10
5

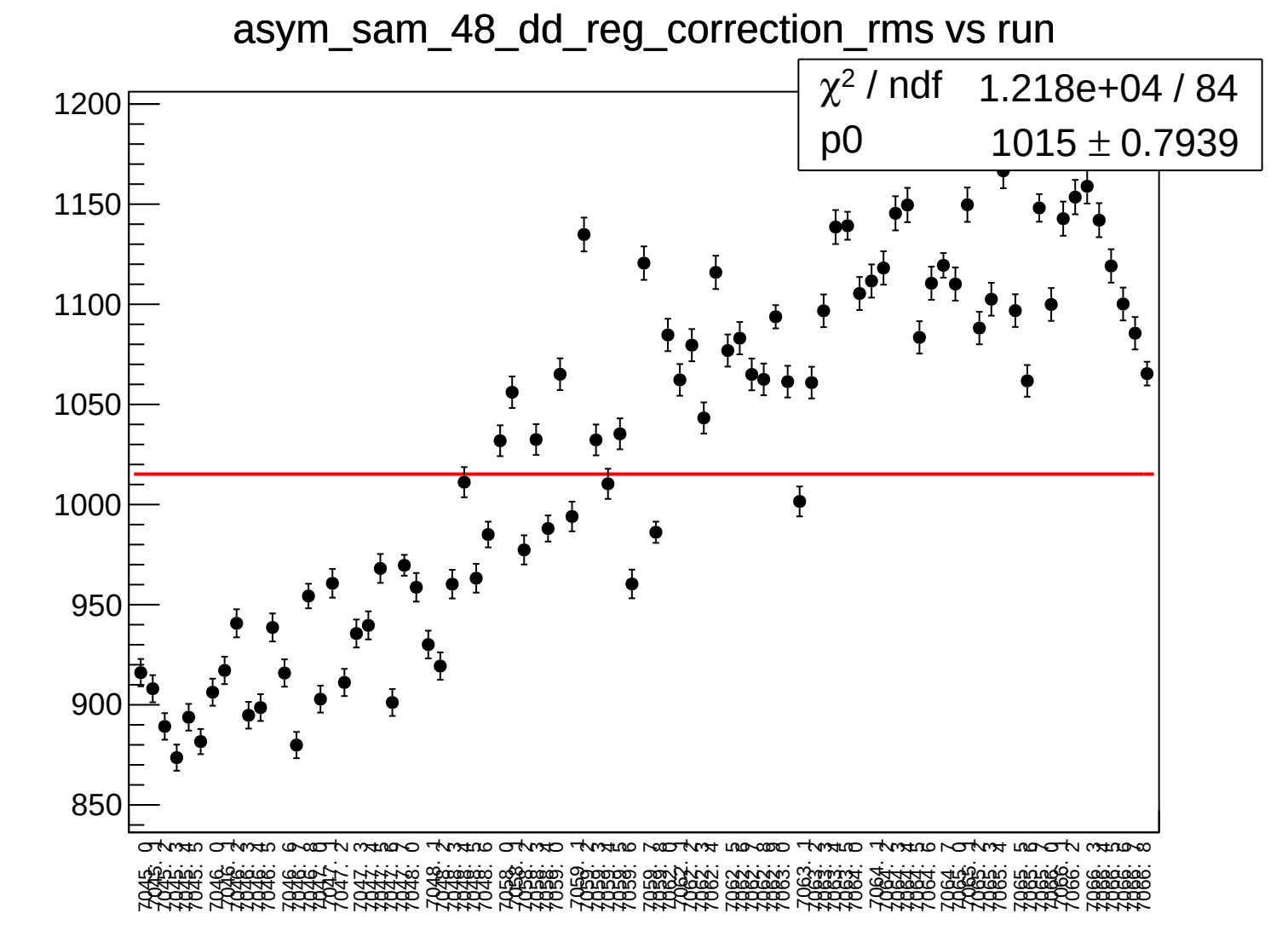

reg_asym_sam_48_dd_mean vs run
χ² / ndf 81.15 / 84
p0 438.8 ± 143.9
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −15.66
Std Dev 97.2
3
2
1
0
−1
−2
−3

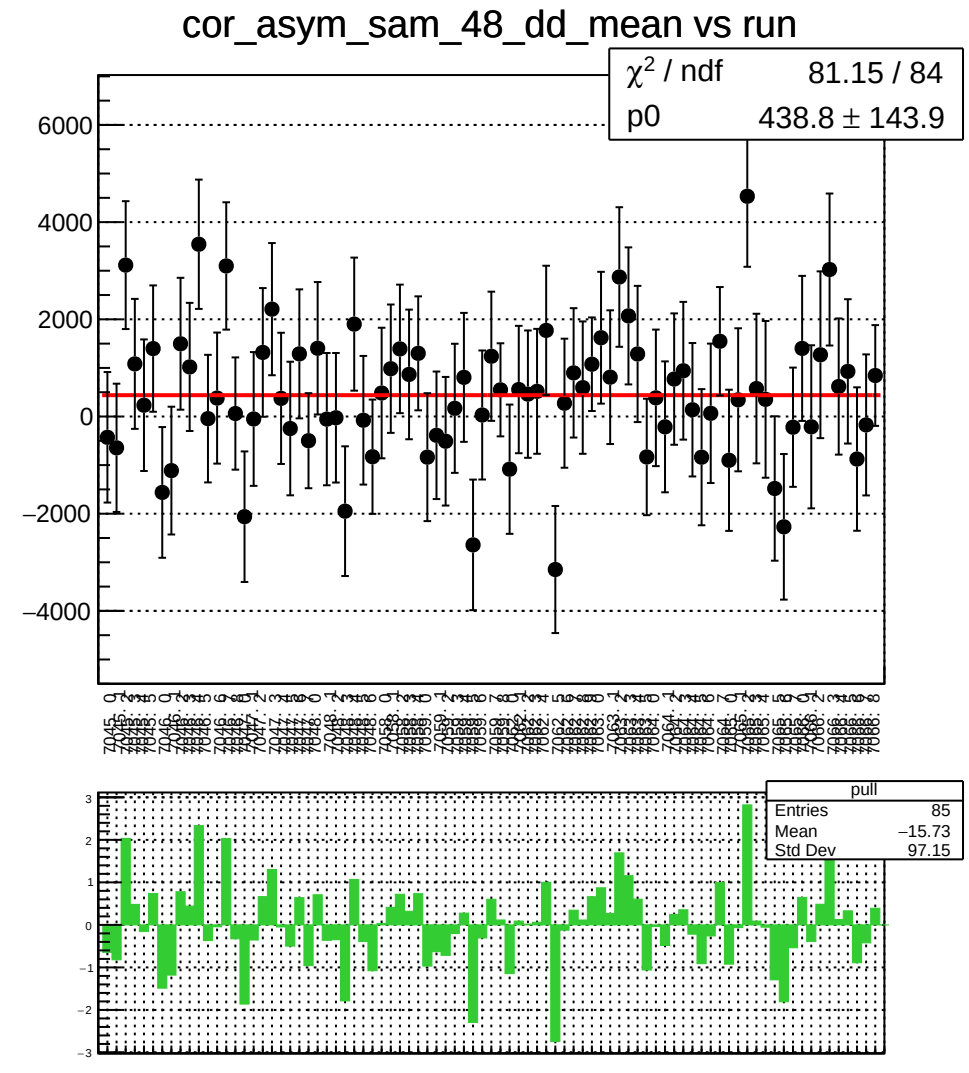

pull1D
Entries 85
Mean 0.003163
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

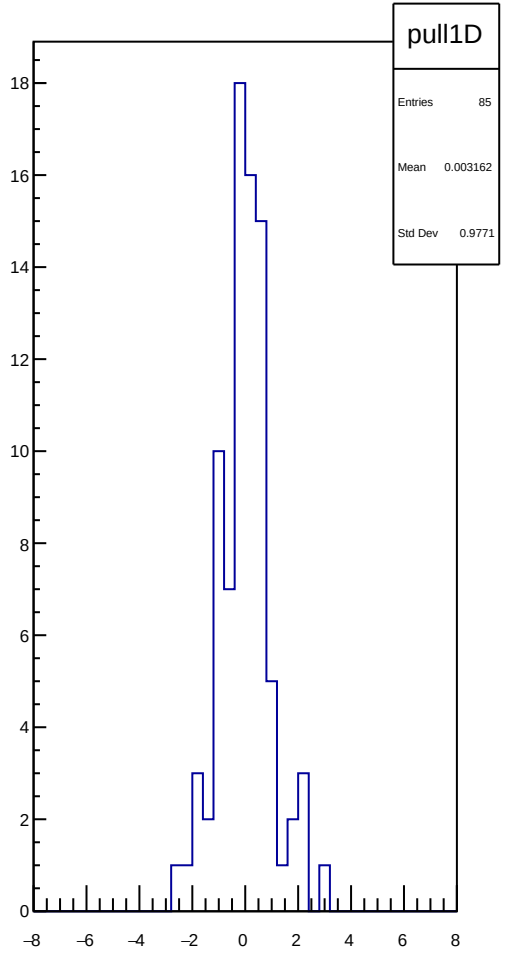

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4832 / 84
p0 130.4 ± 0.1017
160
150
140
130
120

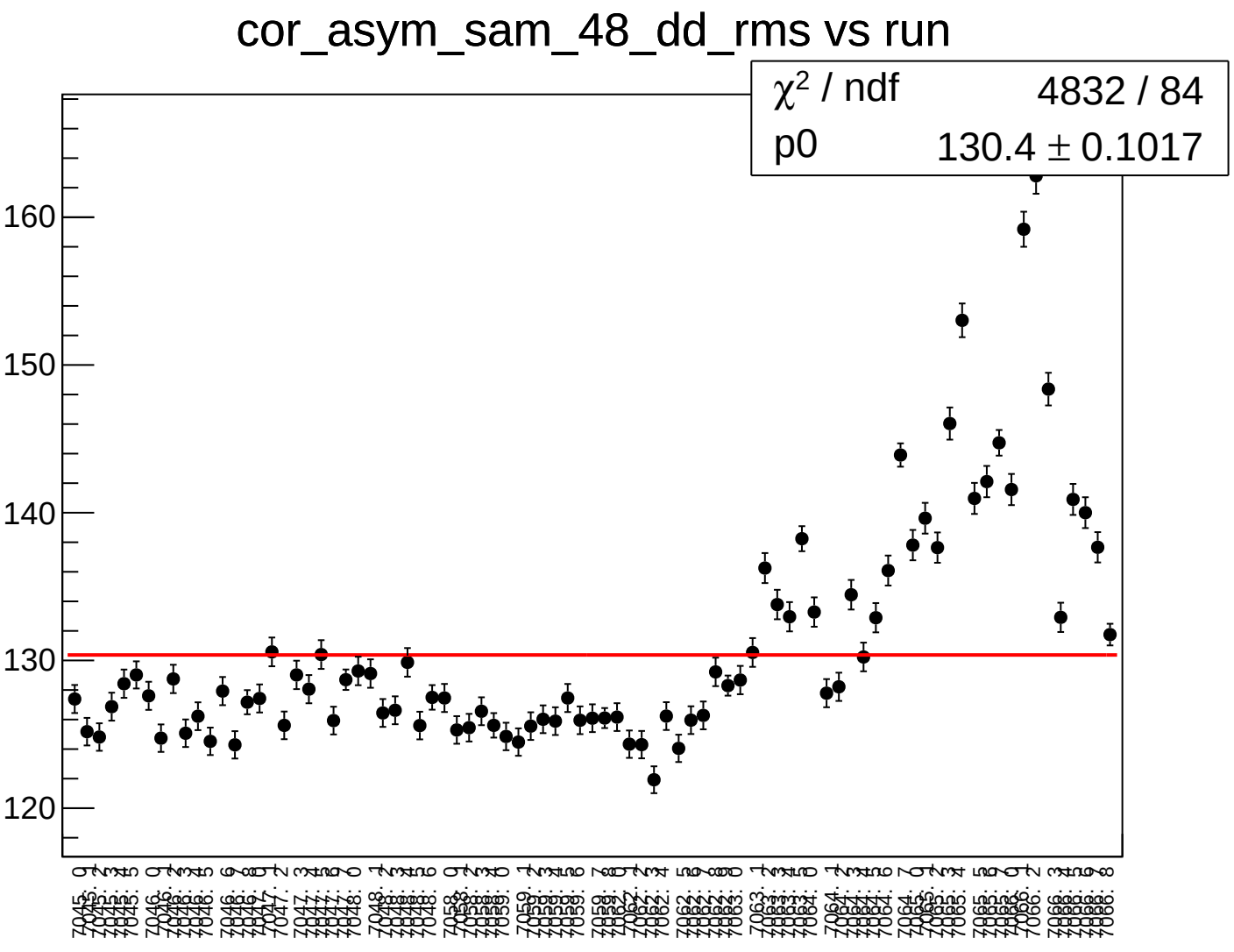

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 82.52 / 84
p0 −1955 ± 1123
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 476.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

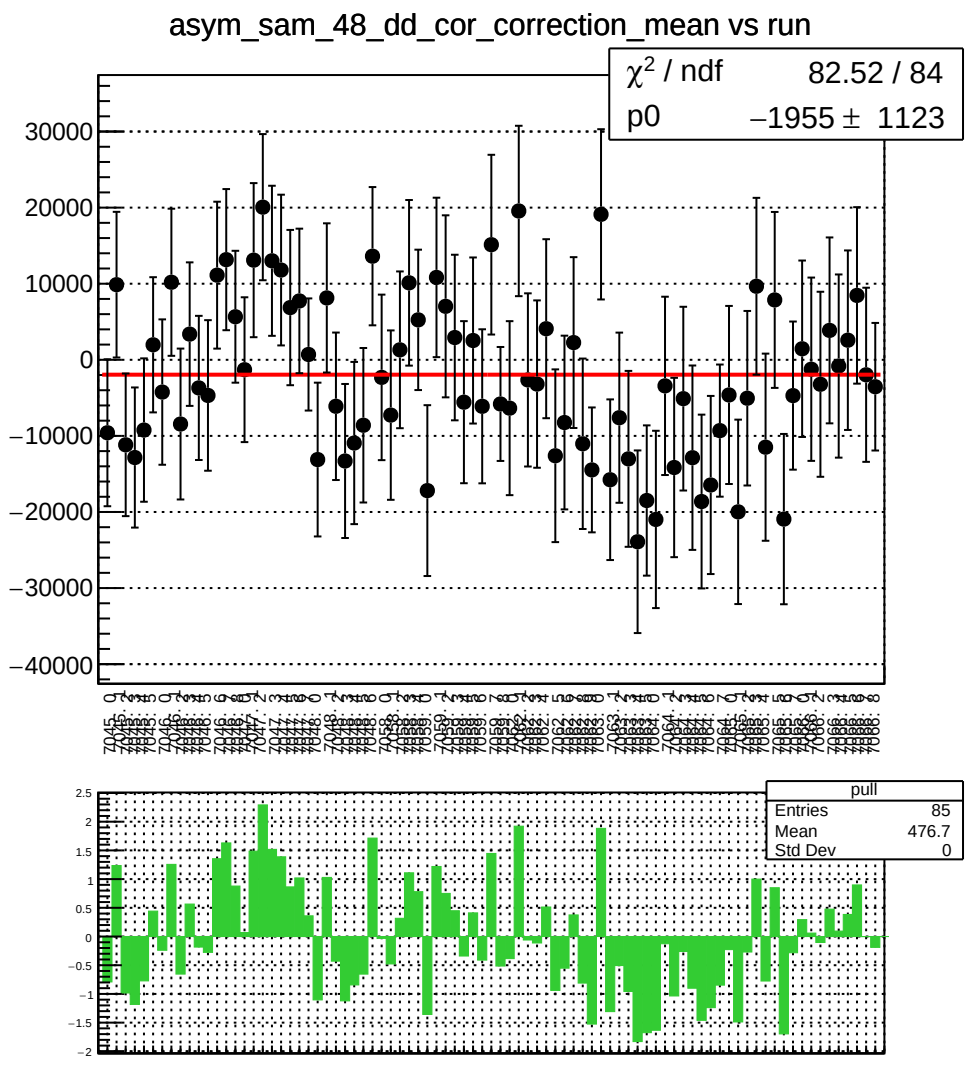

pull1D
Entries 85
Mean −0.01426
Std Dev 0.9852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

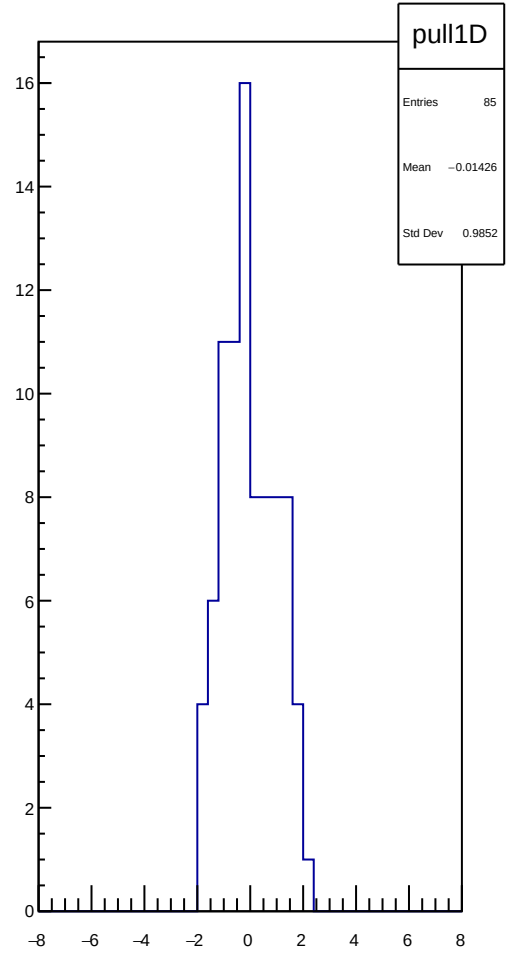

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.218e+04 / 84
p0 1015 ± 0.7939
1200
1150
1100
1050
1000
950
900
850

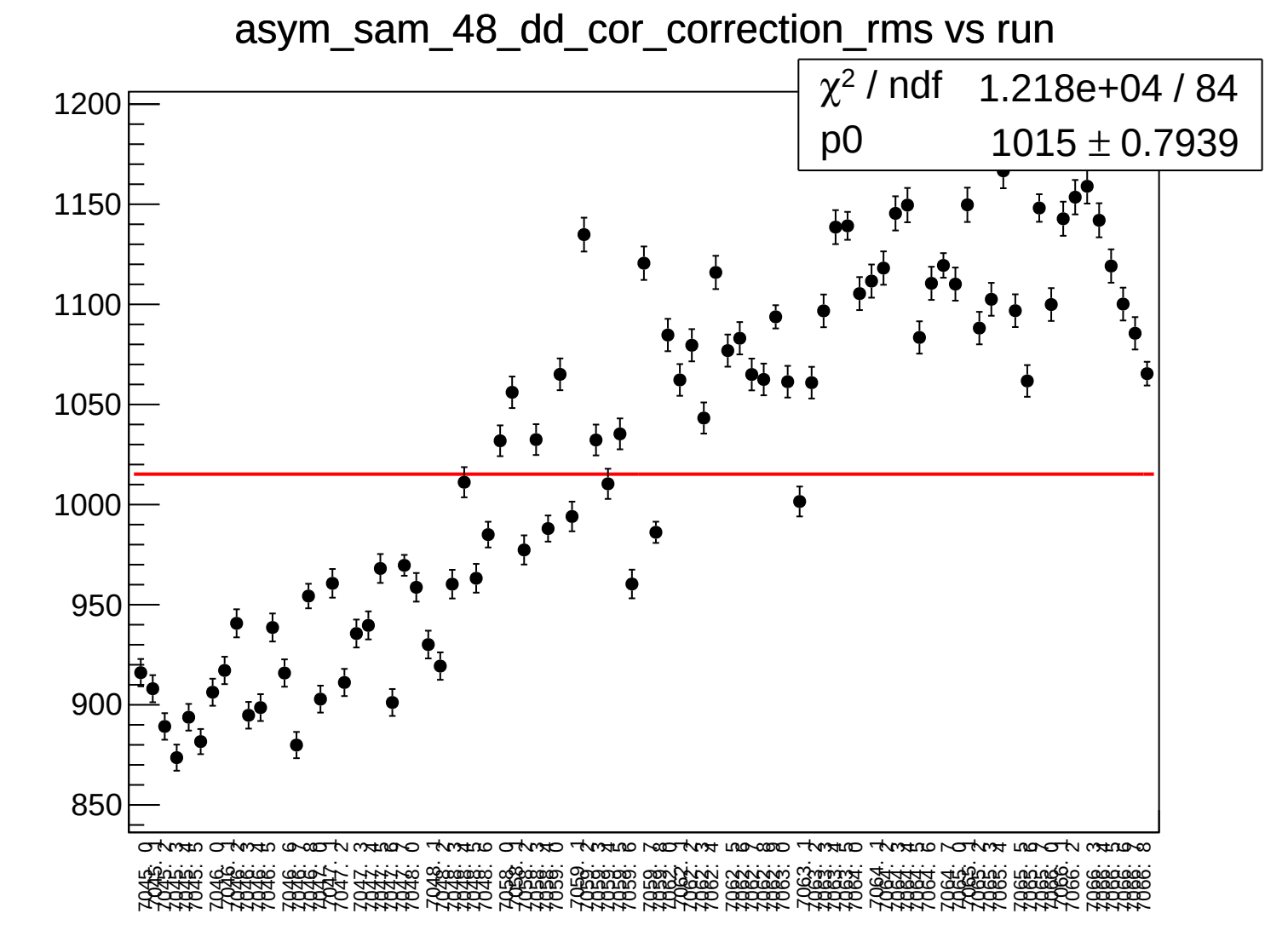

cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.15 / 84
p0 438.8 ± 143.9
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −15.73
Std Dev 97.15
3
2
1
0
−1
−2
−3

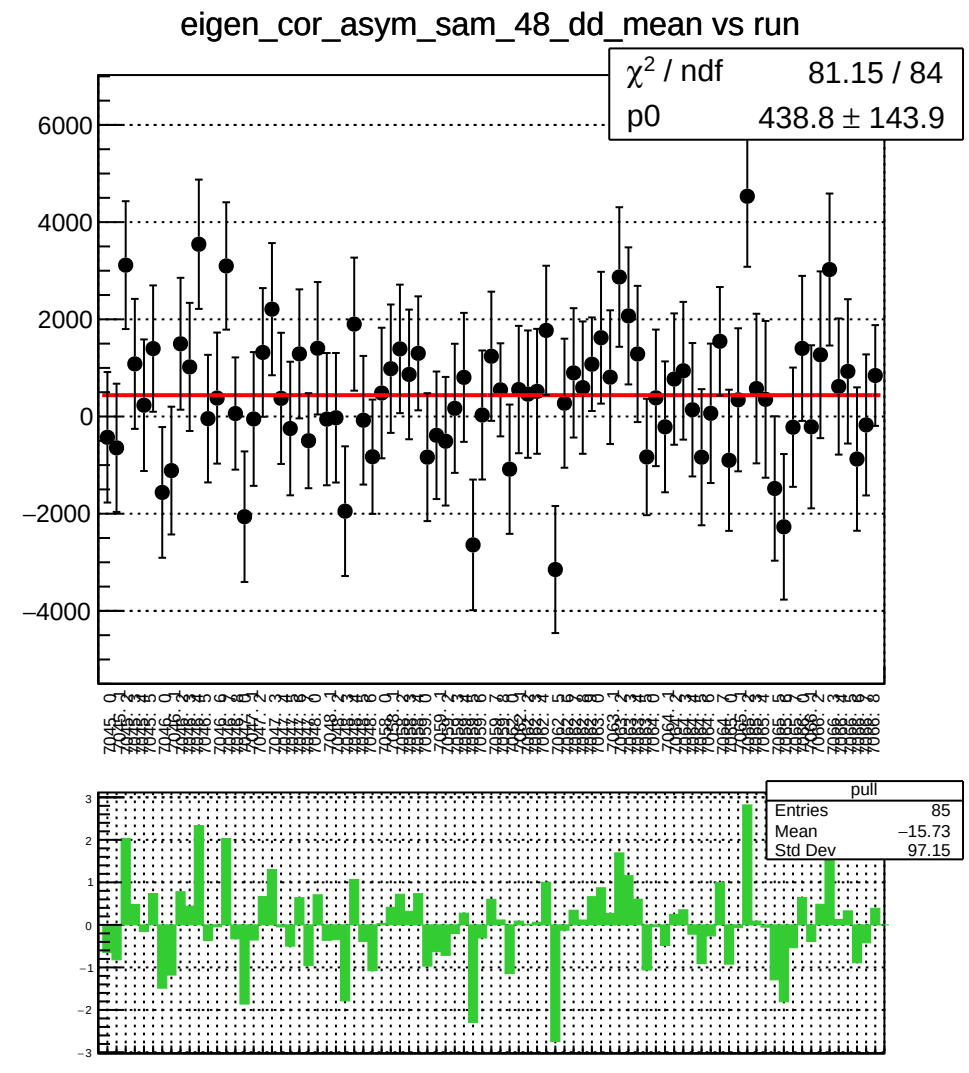

pull1D
Entries 85
Mean 0.003162
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

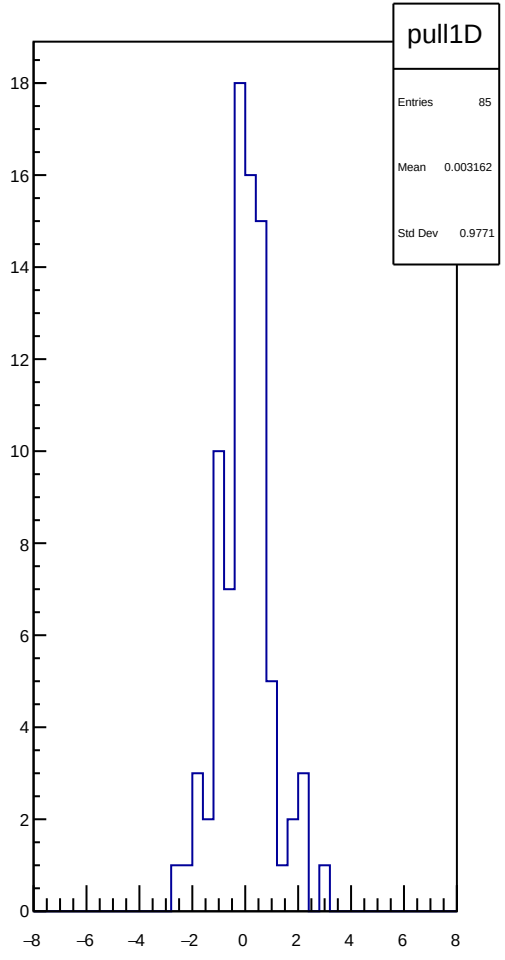

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4832 / 84
p0 130.4 ± 0.1017
160
150
140
130
120

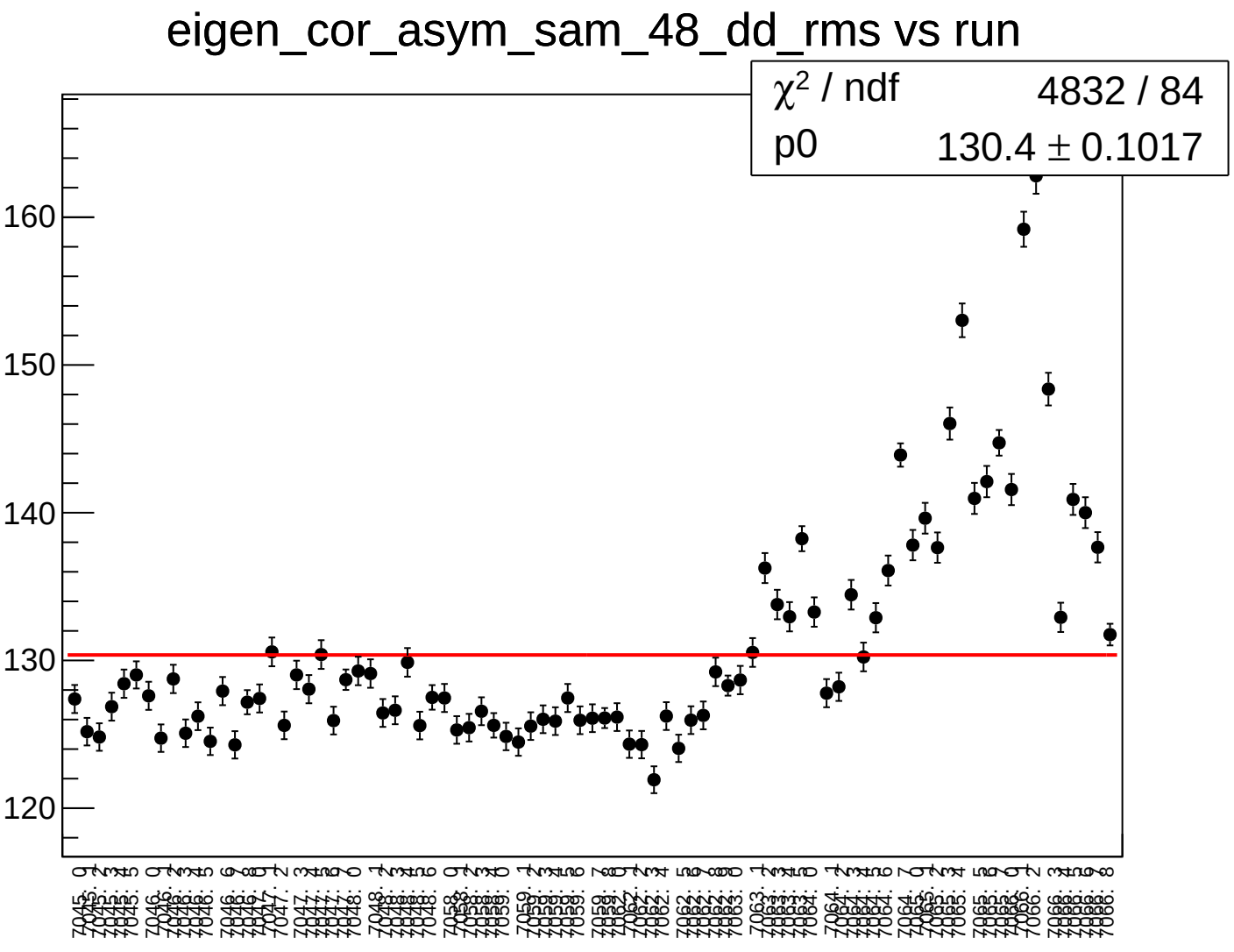

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 82.52 / 84
p0 −1955 ± 1123
pull
Entries 85
Mean 476.7
Std Dev 0

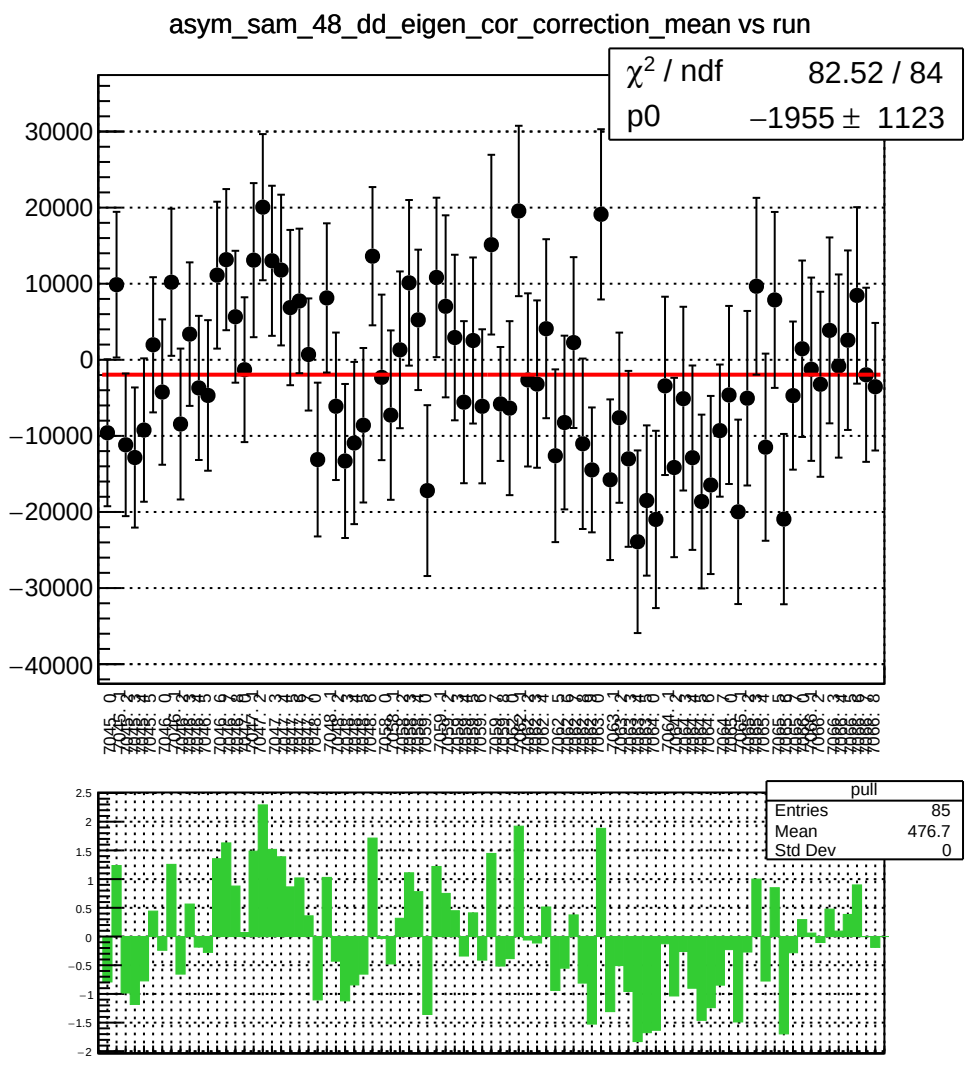

pull1D
Entries 85
Mean −0.01426
Std Dev 0.9852

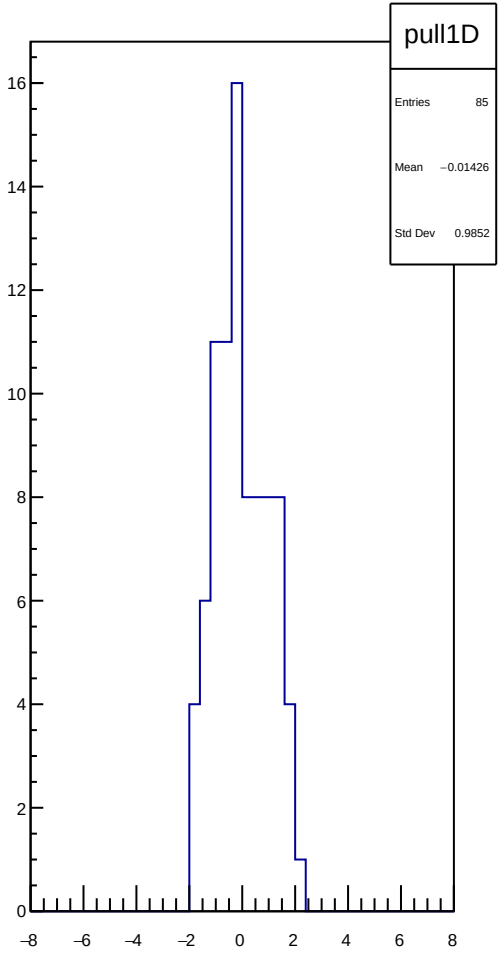

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.218e+04 / 84
p0 1015 ± 0.7939
1200
1150
1100
1050
1000
950
900
850

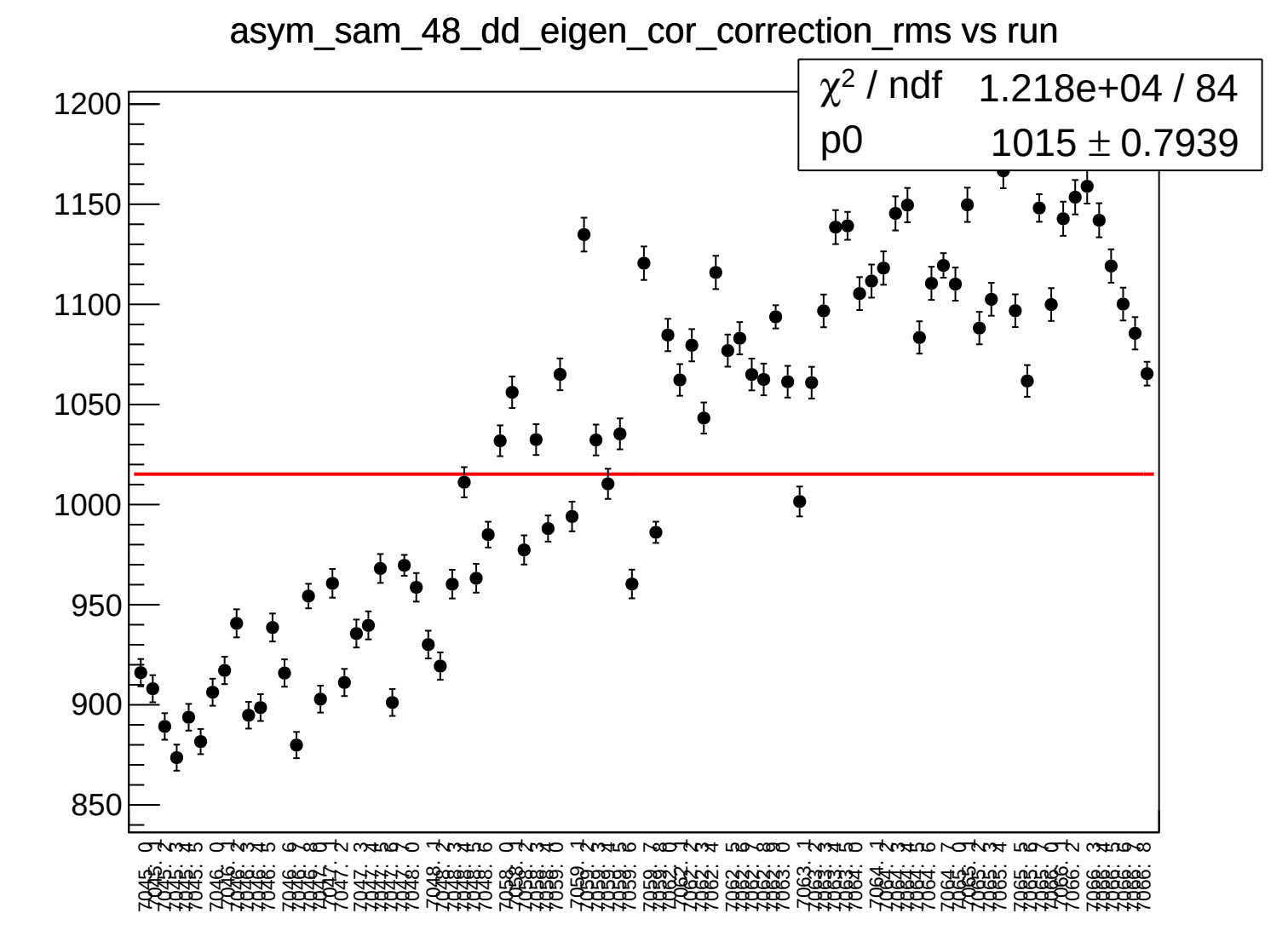

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.15 / 84
p0 438.8 ± 143.9
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −15.73
Std Dev 97.15
3
2
1
0
−1
−2
−3

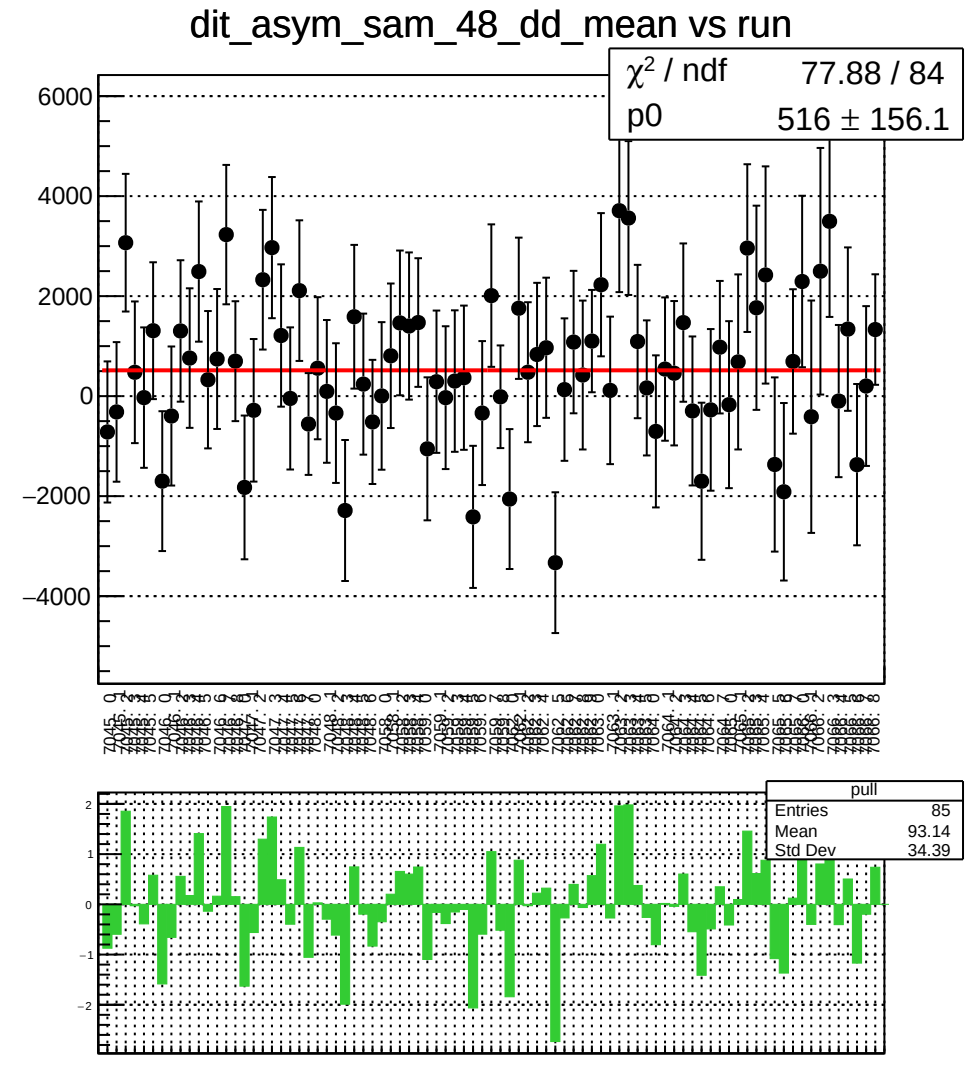

pull1D
Entries 85
Mean 0.003162
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

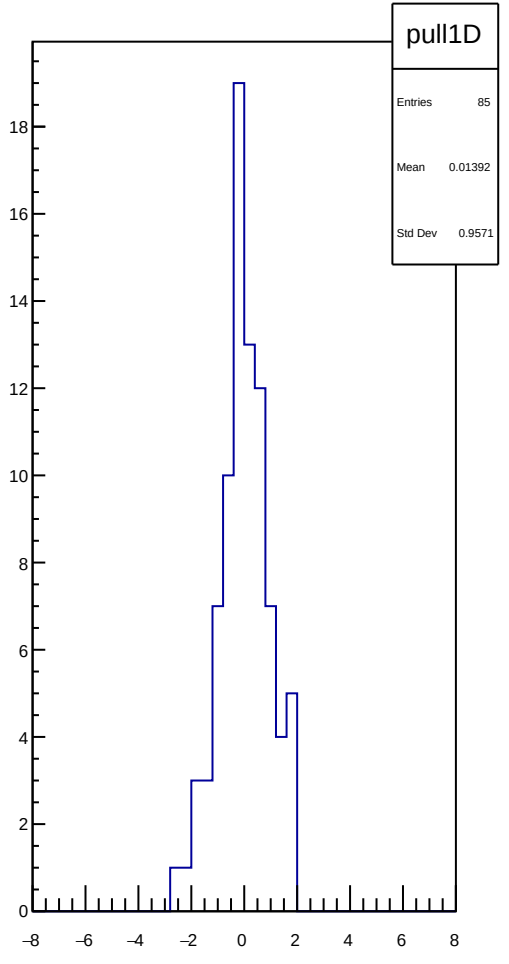

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4832 / 84
p0 130.4 ± 0.1017
160
150
140
130
120

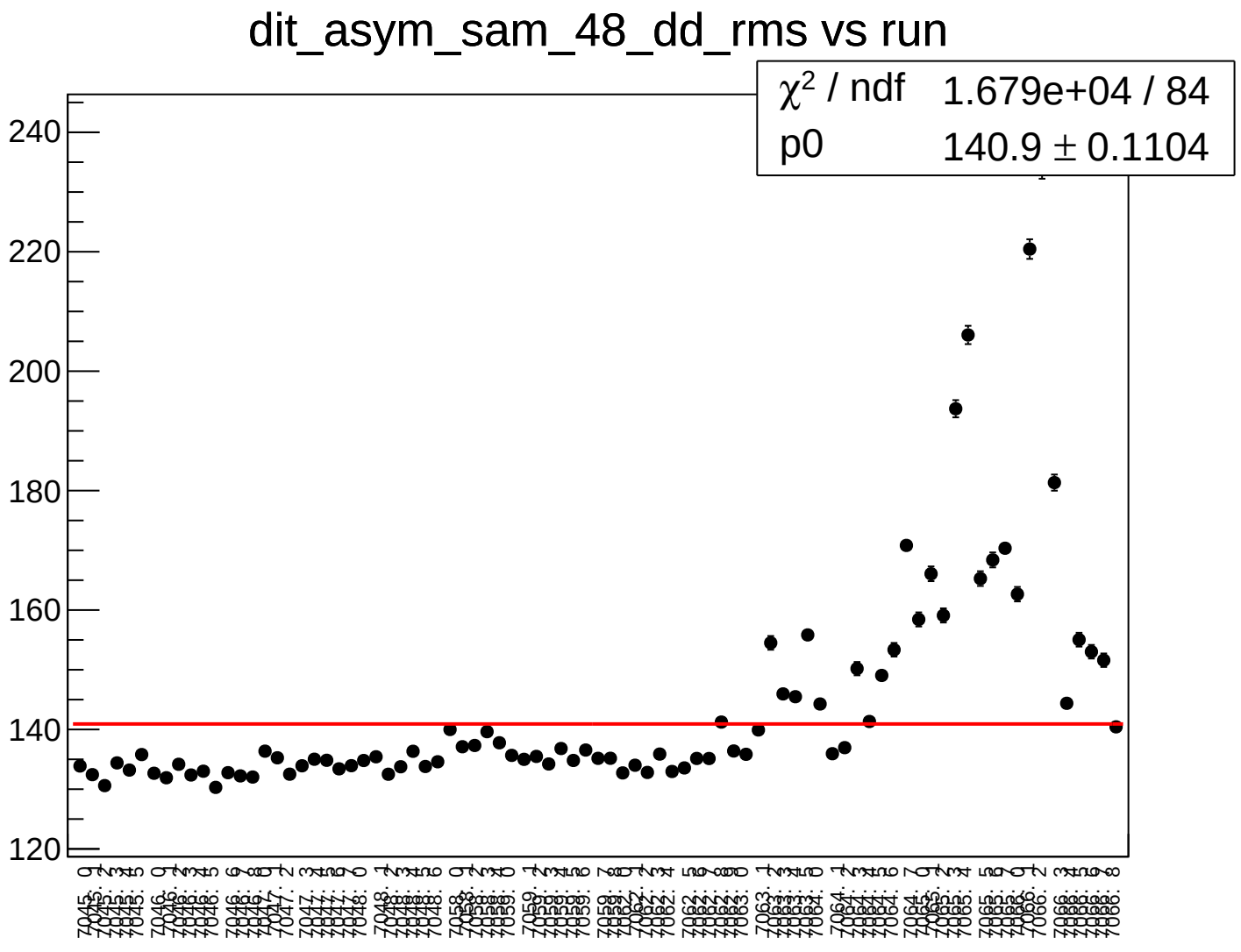

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.52 / 84
p0 −1955 ± 1123
pull
Entries 85
Mean 476.7
Std Dev 0

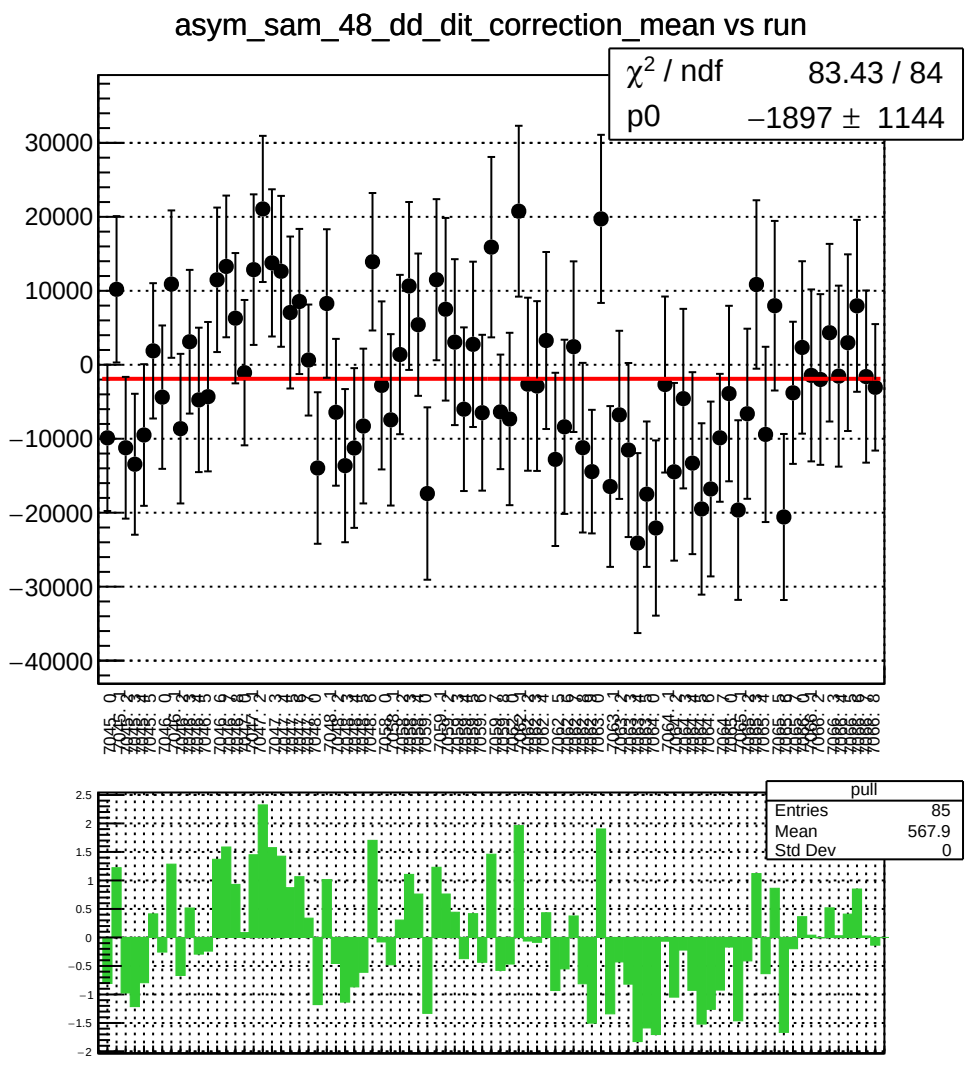

pull1D
Entries 85
Mean −0.01426
Std Dev 0.9852

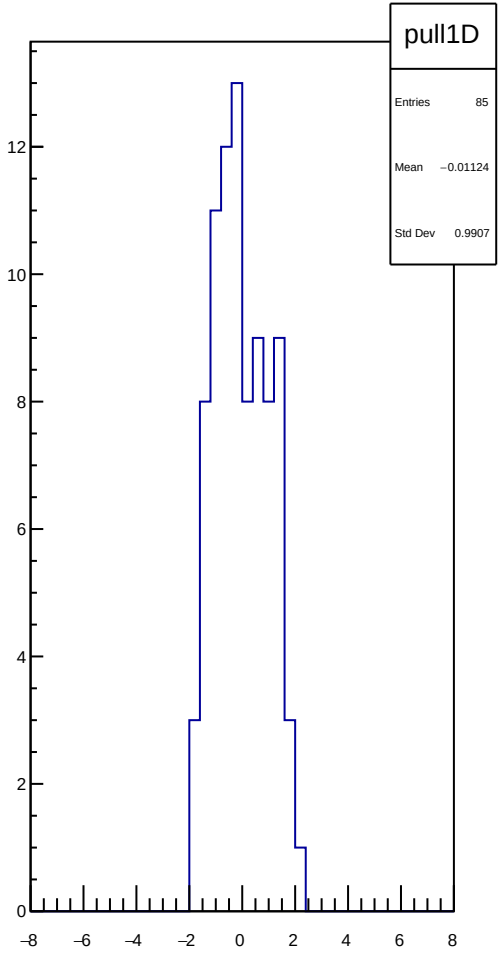

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.218e+04 / 84
p0 1015 ± 0.7939
1200
1150
1100
1050
1000
950
900
850

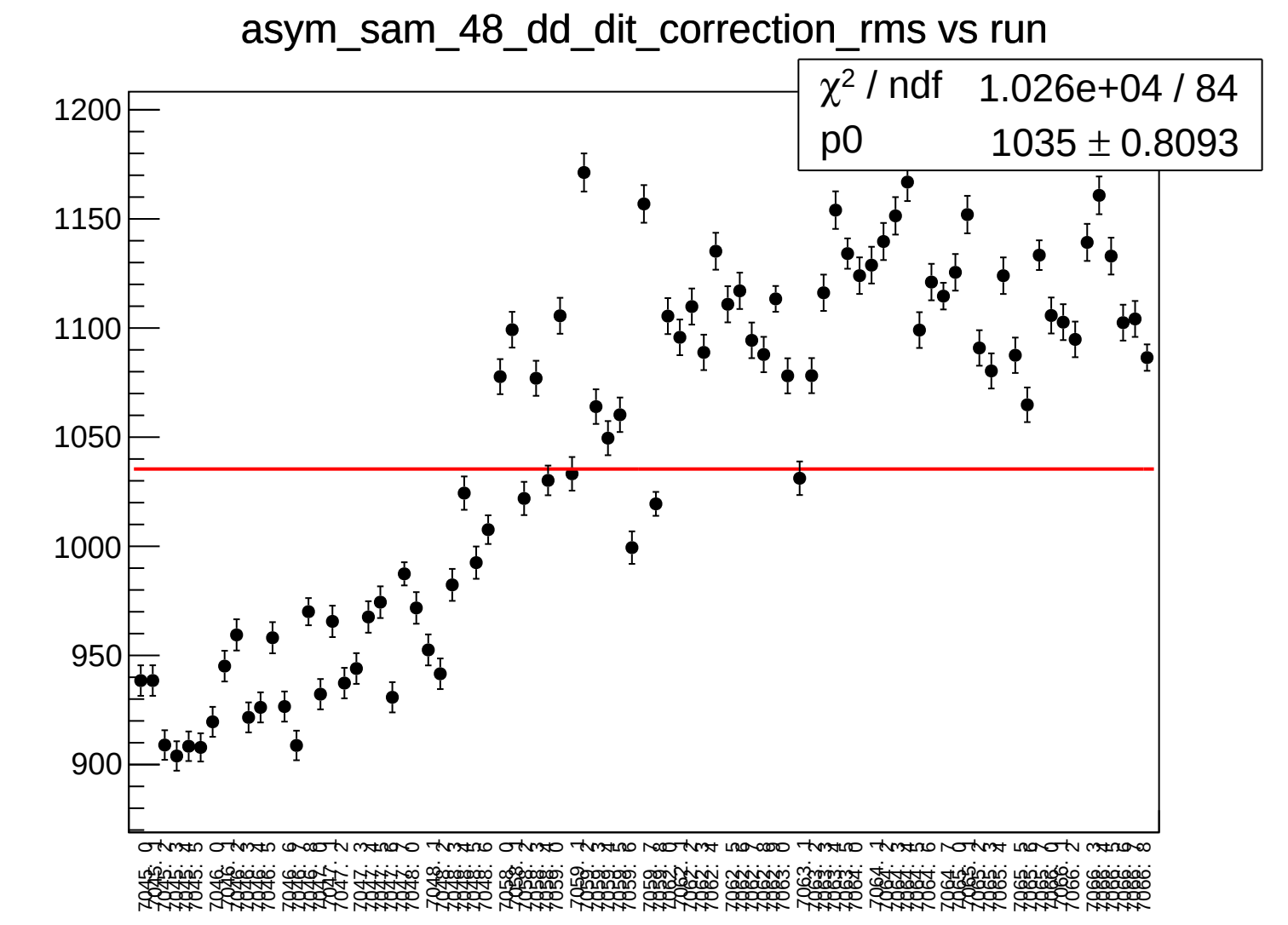

dit_asym_sam_48_dd_mean vs run
χ² / ndf 77.88 / 84
p0 516 ± 156.1
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 93.14
Std Dev 34.39
2
1
0
−1
−2

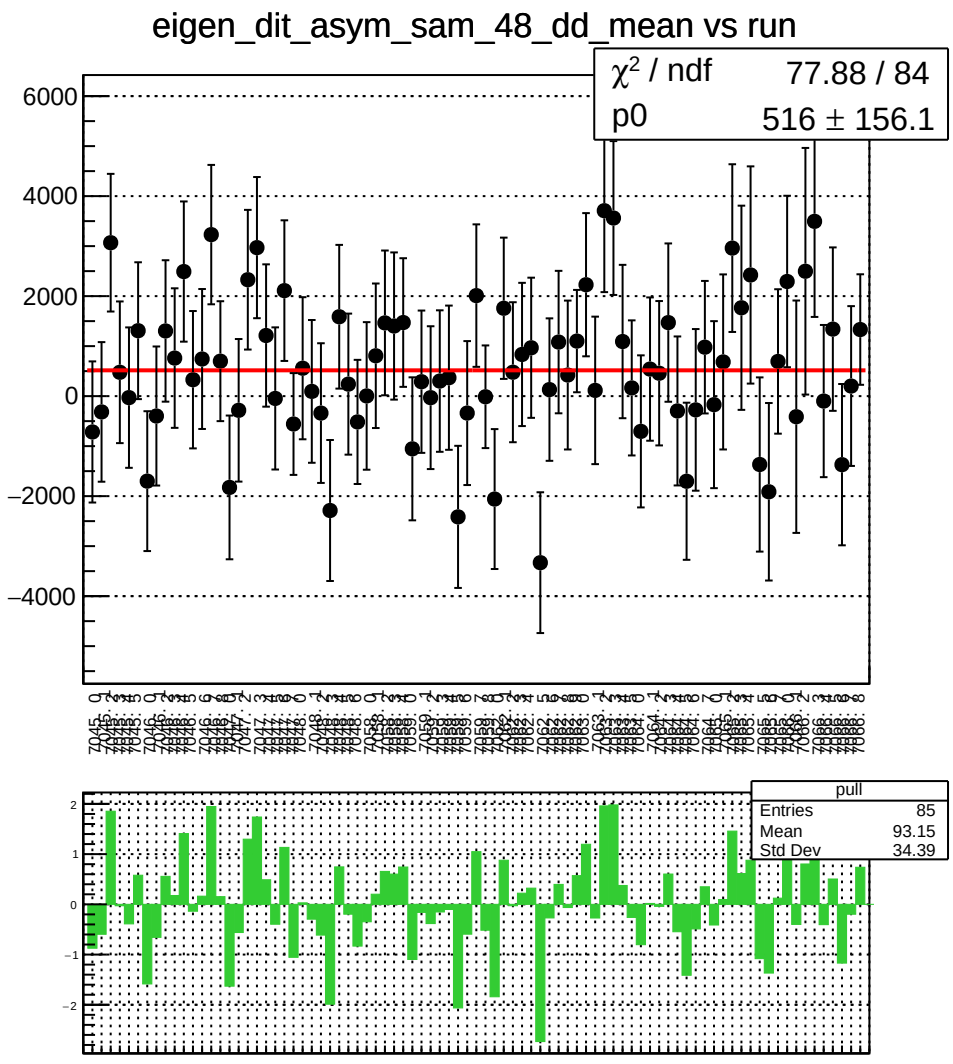

pull1D
Entries 85
Mean 0.01392
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

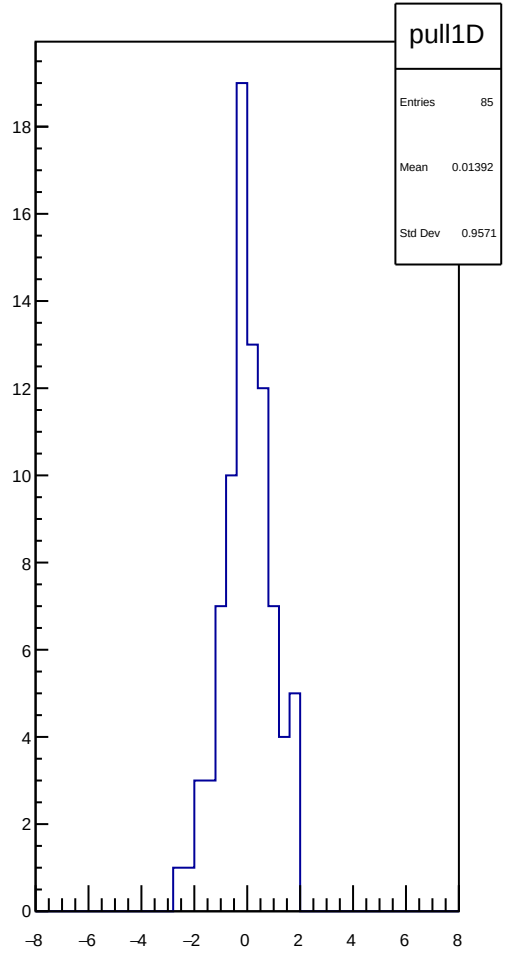

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.679e+04 / 84
p0 140.9 ± 0.1104
240
220
200
180
160
140
120

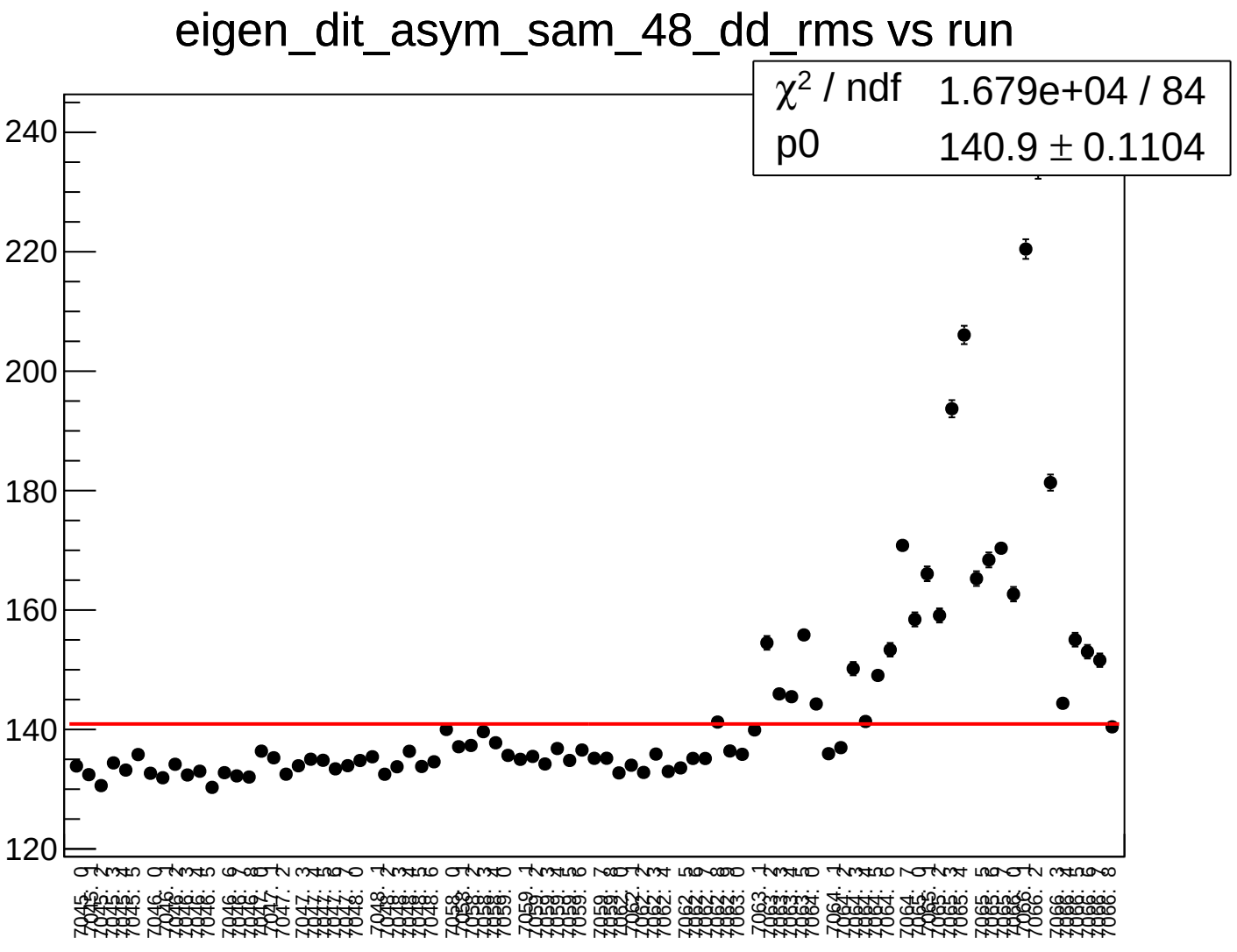

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 83.43 / 84
p0 −1897 ± 1144
pull
Entries 85
Mean 567.9
Std Dev 0

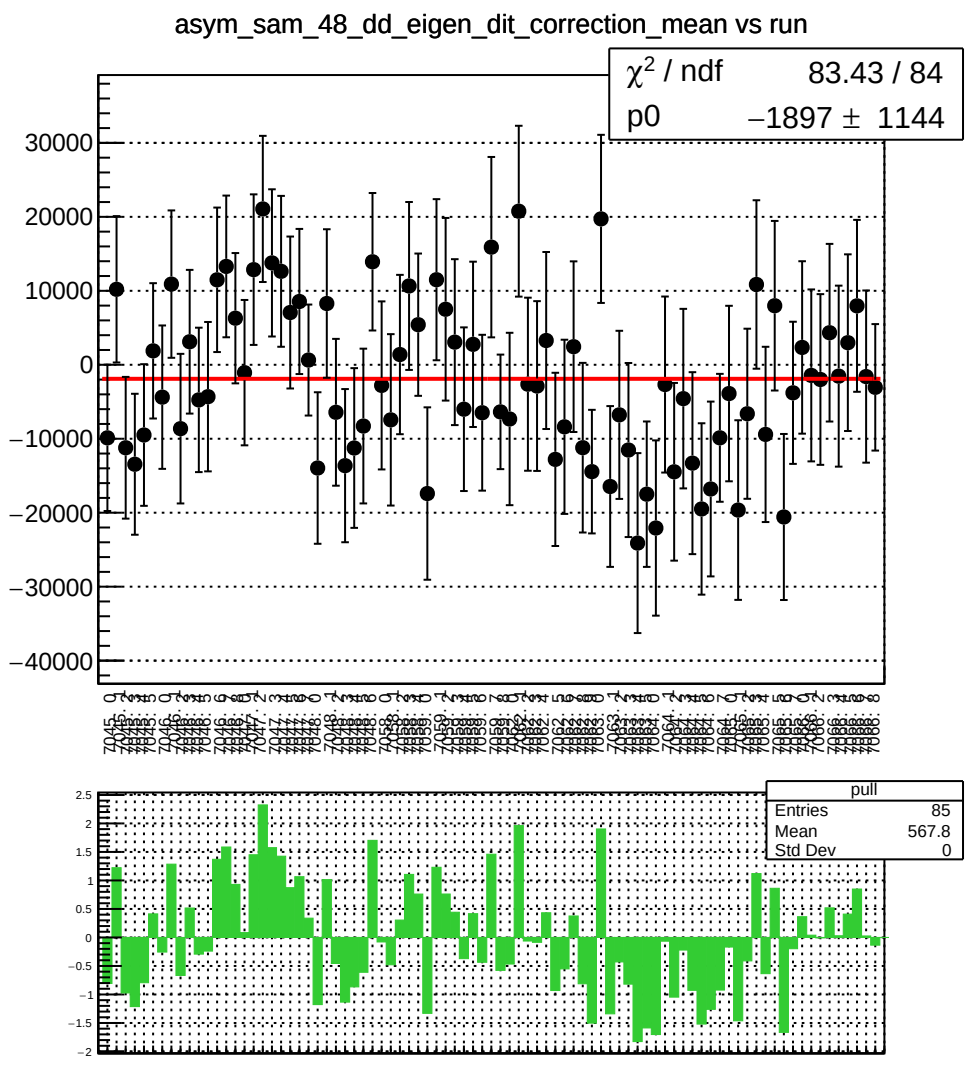

pull1D
Entries 85
Mean −0.01124
Std Dev 0.9907

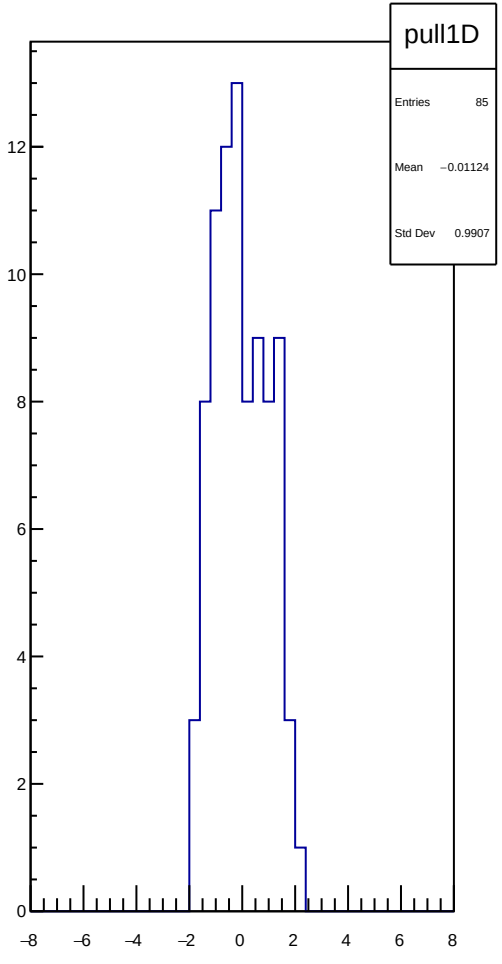

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.026e+04 / 84
p0 1035 ± 0.8093
1200
1150
1100
1050
1000
950
900

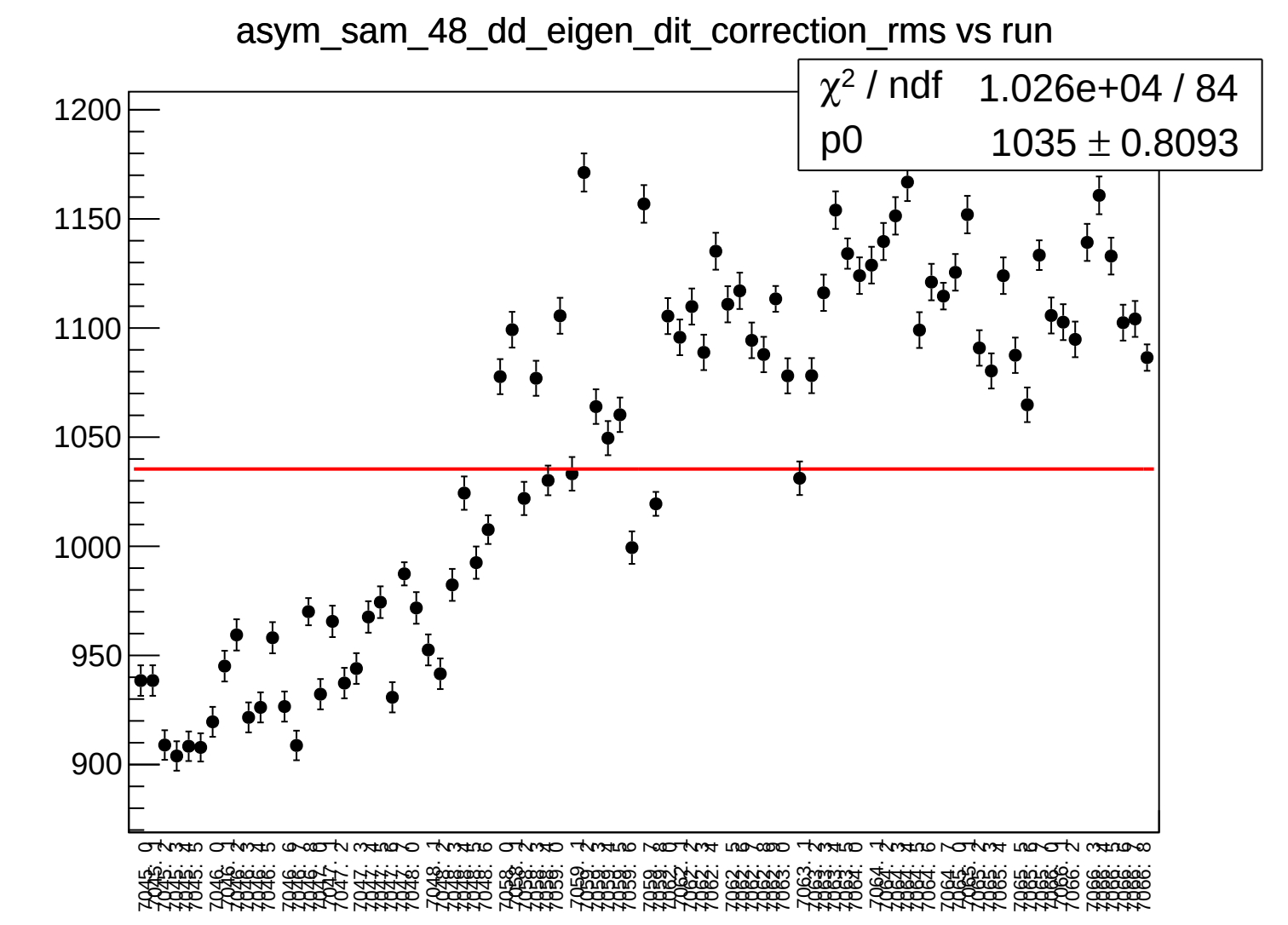

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 77.88 / 84
p0 516 ± 156.1
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 93.15
Std Dev 34.39
2
1
0
−1
−2

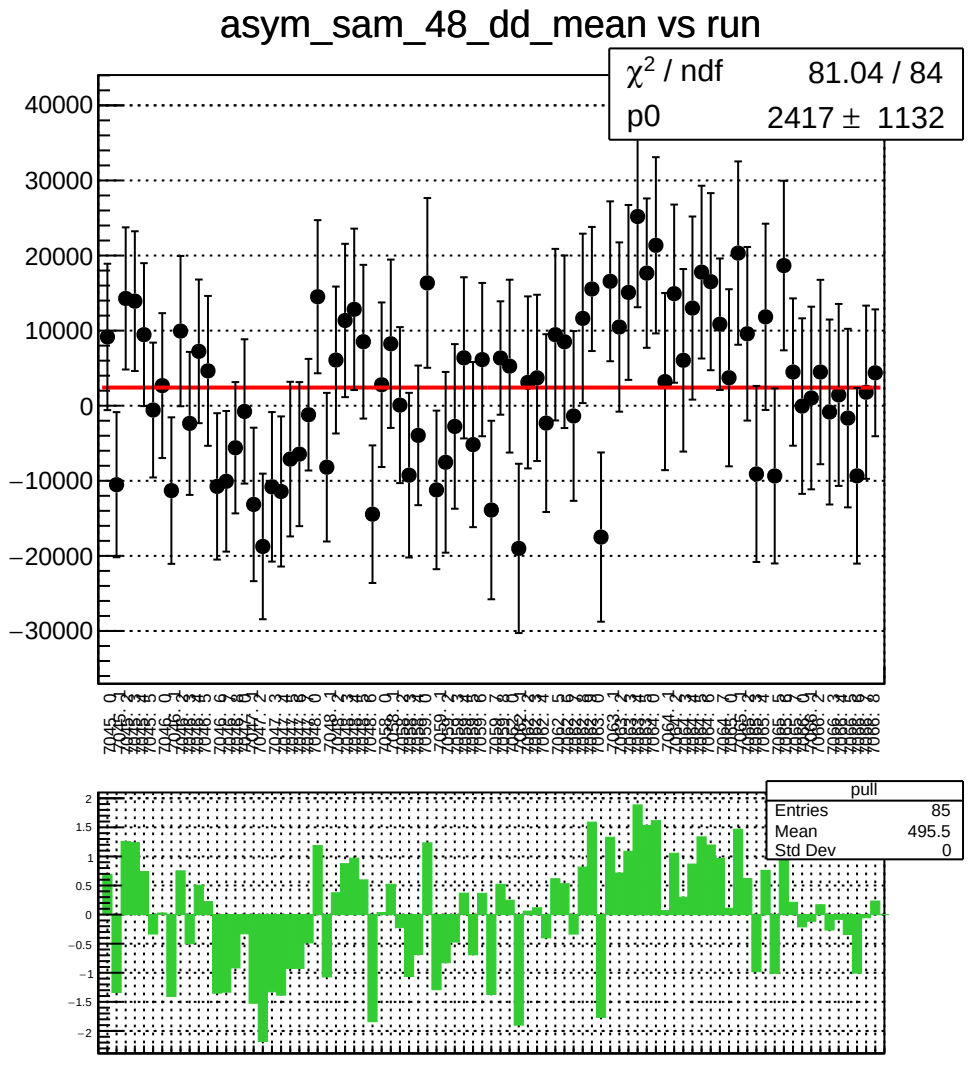

pull1D
Entries 85
Mean 0.01392
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

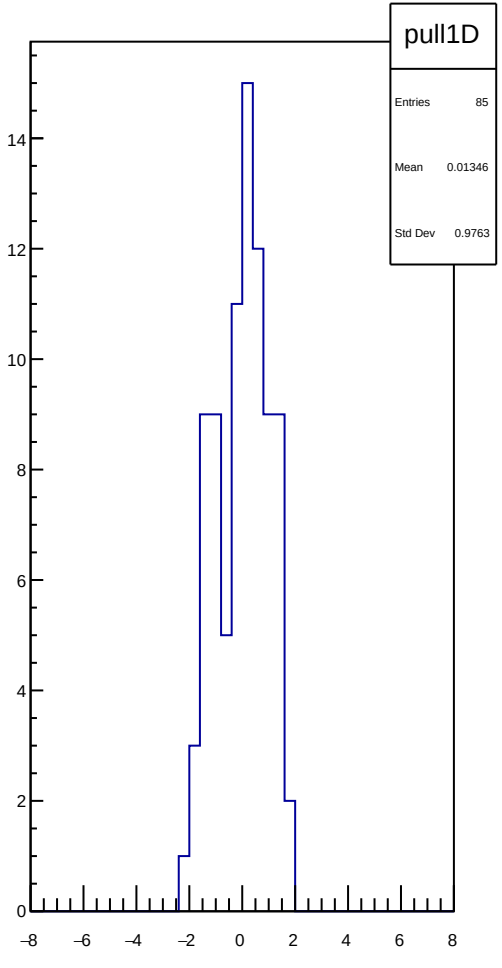

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.679e+04 / 84
p0 140.9 ± 0.1104
240
220
200
180
160
140
120

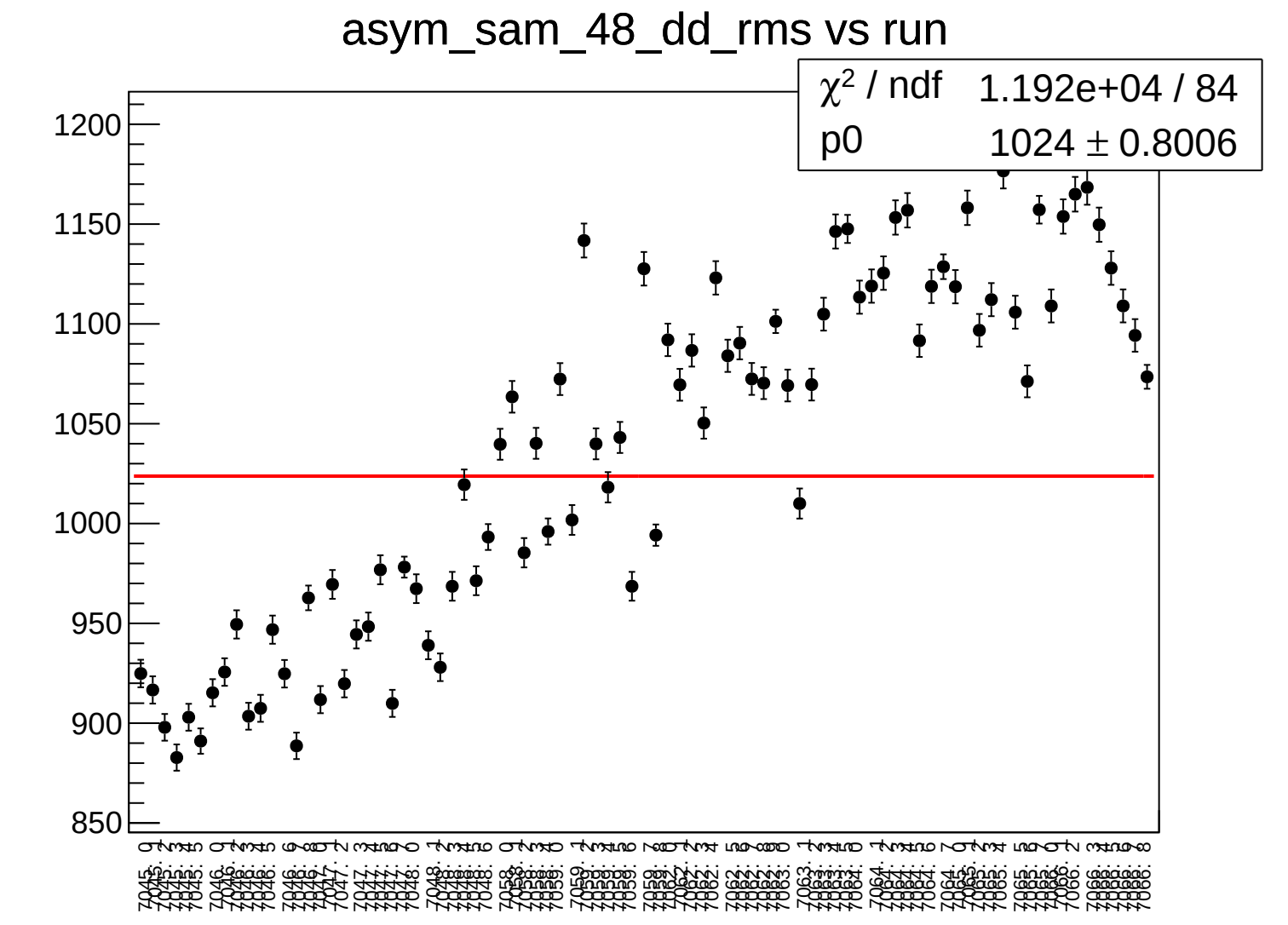

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.43 / 84
p0 −1897 ± 1144
pull
Entries 85
Mean 567.8
Std Dev 0

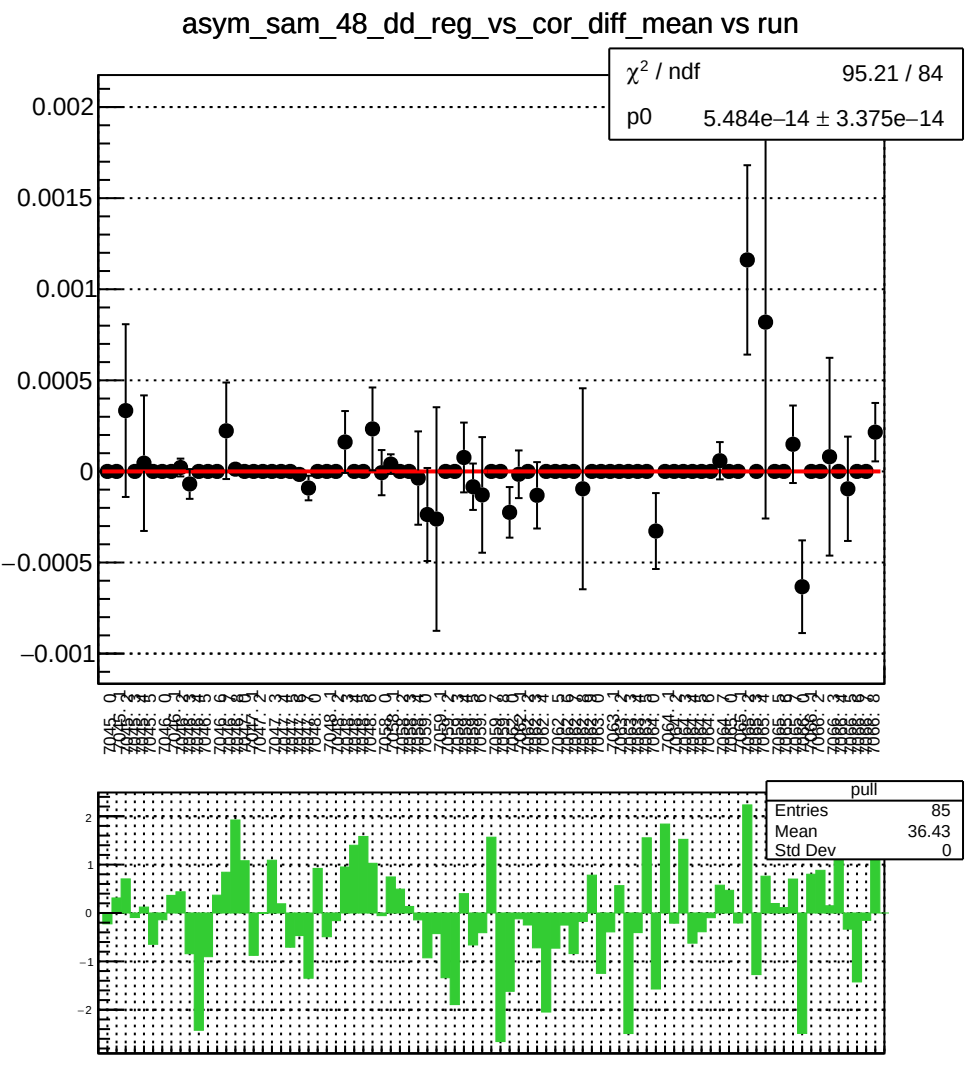

pull1D
Entries 85
Mean −0.01124
Std Dev 0.9907

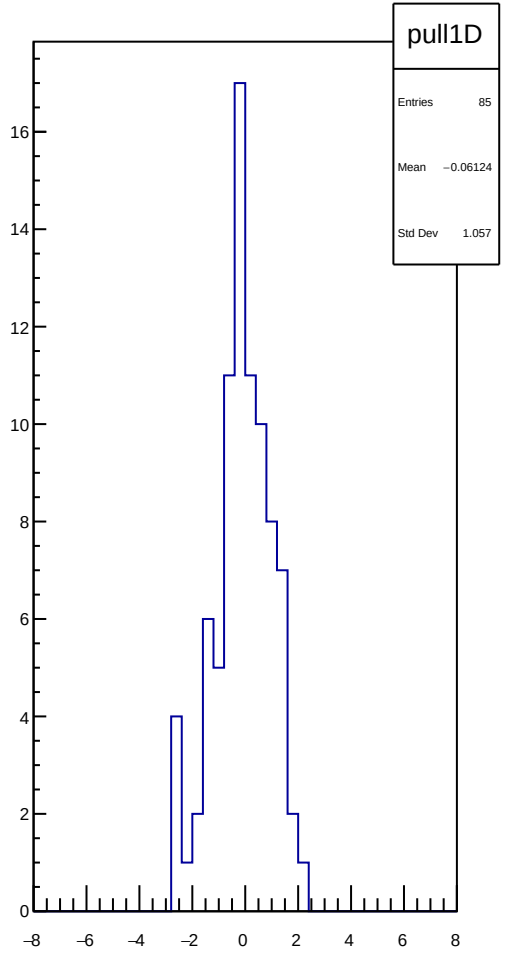

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.026e+04 / 84
p0 1035 ± 0.8093
1200
1150
1100
1050
1000
950
900

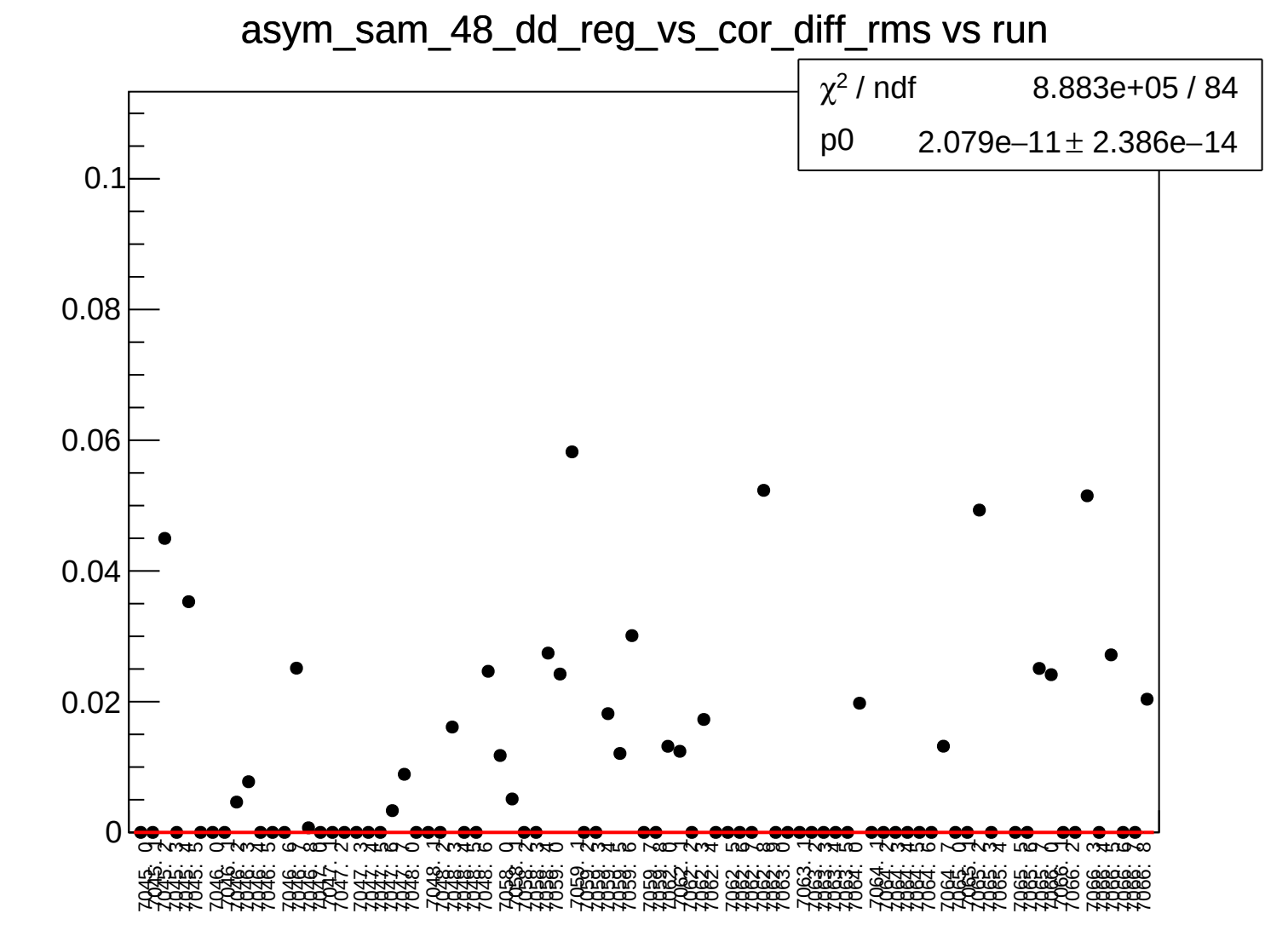

asym_sam_48_dd_mean vs run
χ² / ndf 81.04 / 84
p0 2417 ± 1132
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 495.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

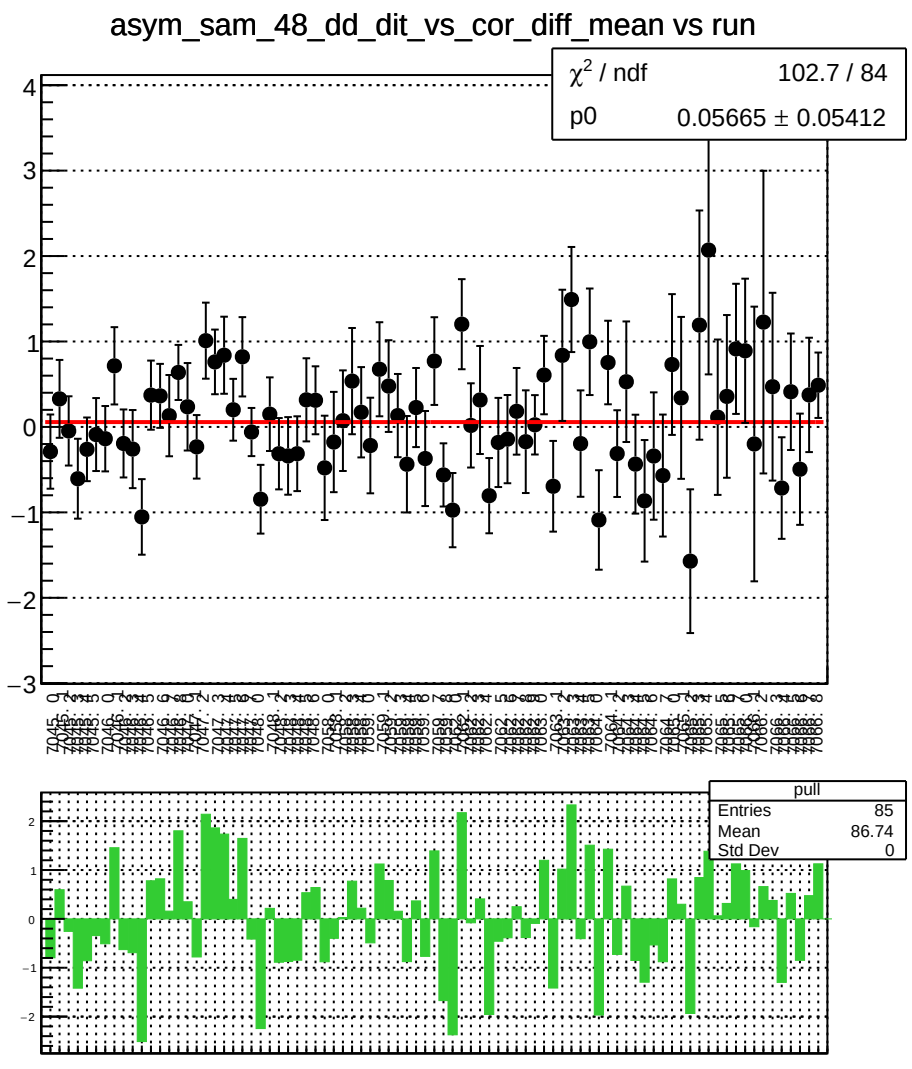

pull1D
Entries 85
Mean 0.01346
Std Dev 0.9763
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

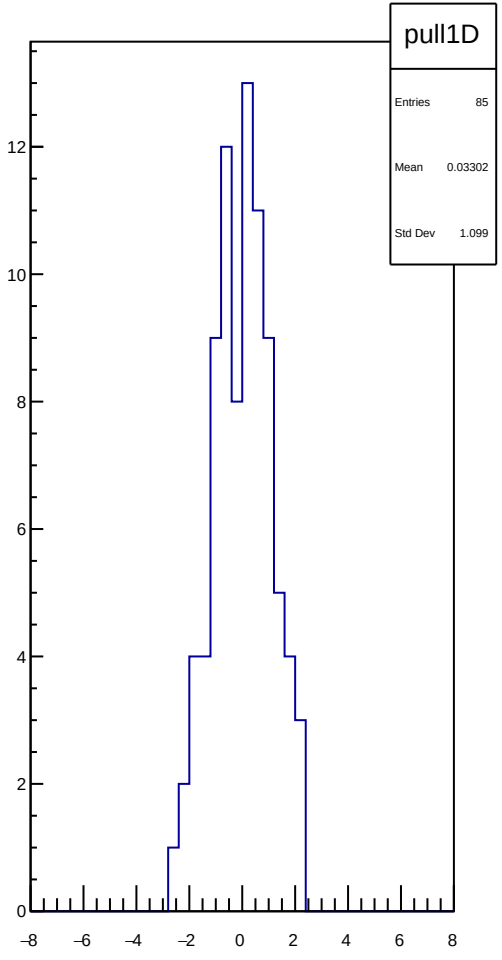

asym_sam_48_dd_rms vs run
χ² / ndf 1.192e+04 / 84
p0 1024 ± 0.8006
1200
1150
1100
1050
1000
950
900
850

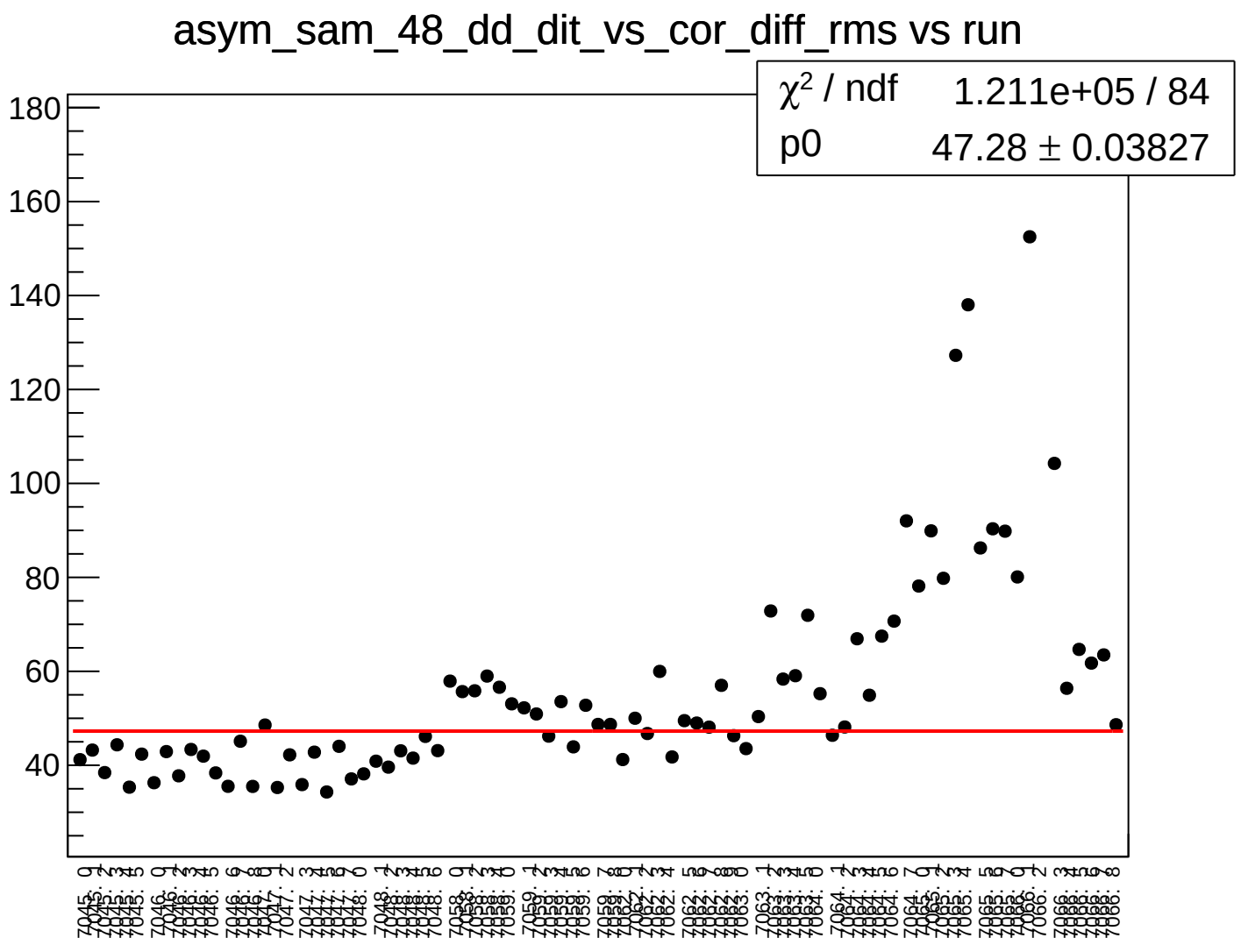

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.21 / 84
p0 5.484e−14 ± 3.375e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 36.43
Std Dev 0
2
1
0
−1
−2

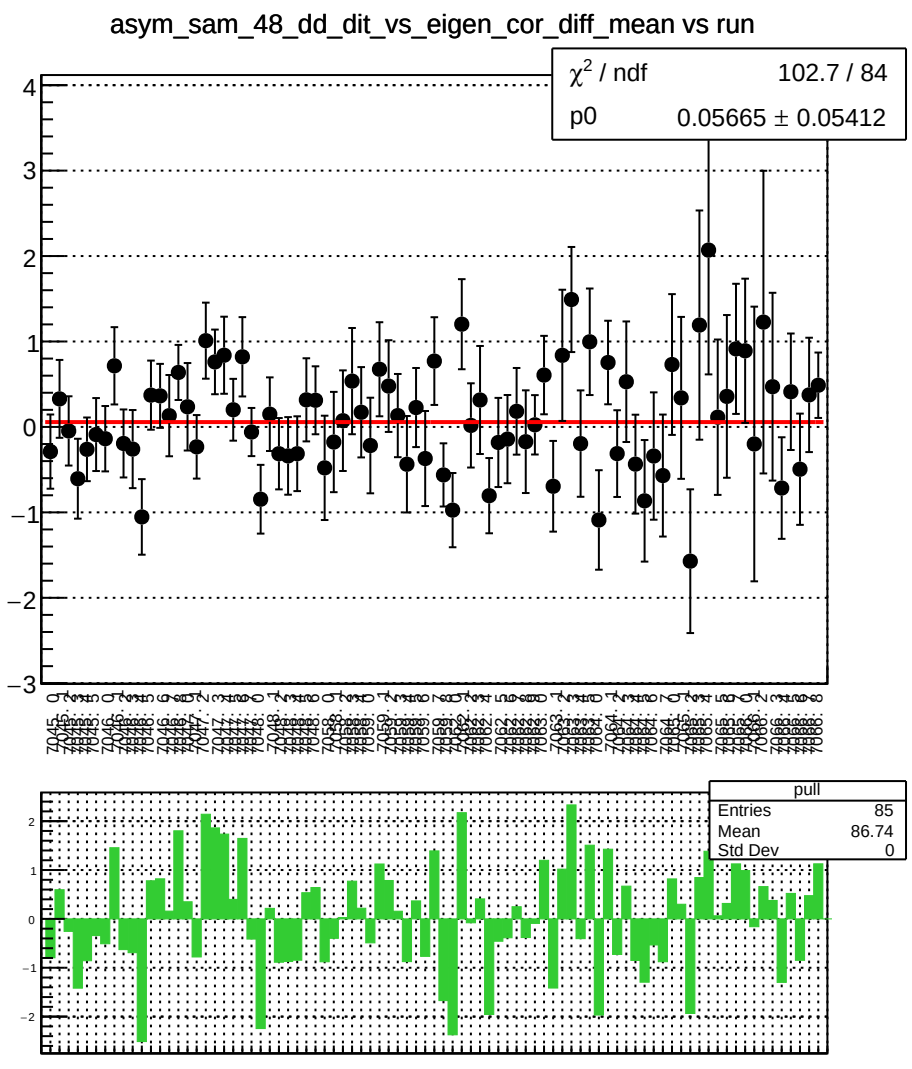

pull1D
Entries 85
Mean −0.06124
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

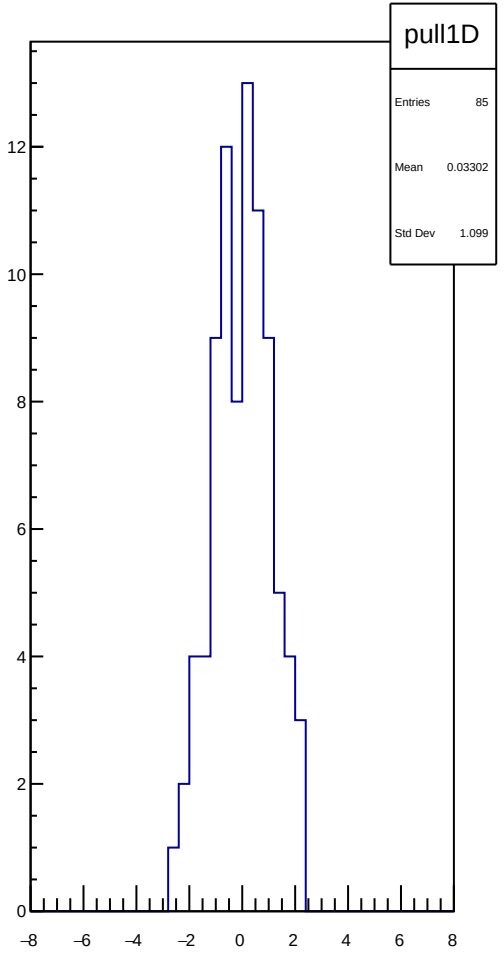

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.883e+05 / 84
p0 2.079e−11 ± 2.386e−14
0.1
0.08
0.06
0.04
0.02
0

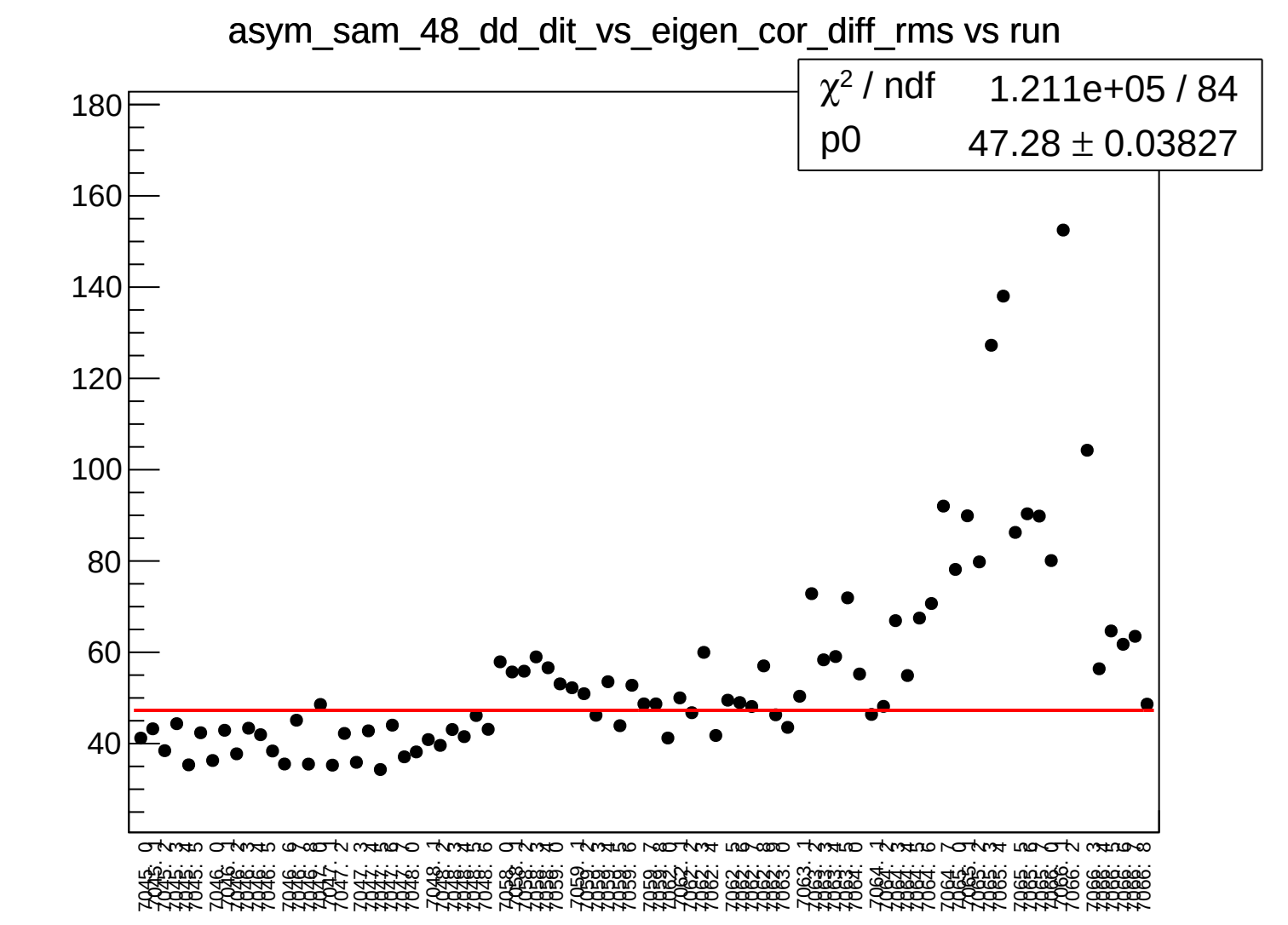

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 84
p0 0.05665 ± 0.05412
pull
Entries 85
Mean 86.74
Std Dev 0

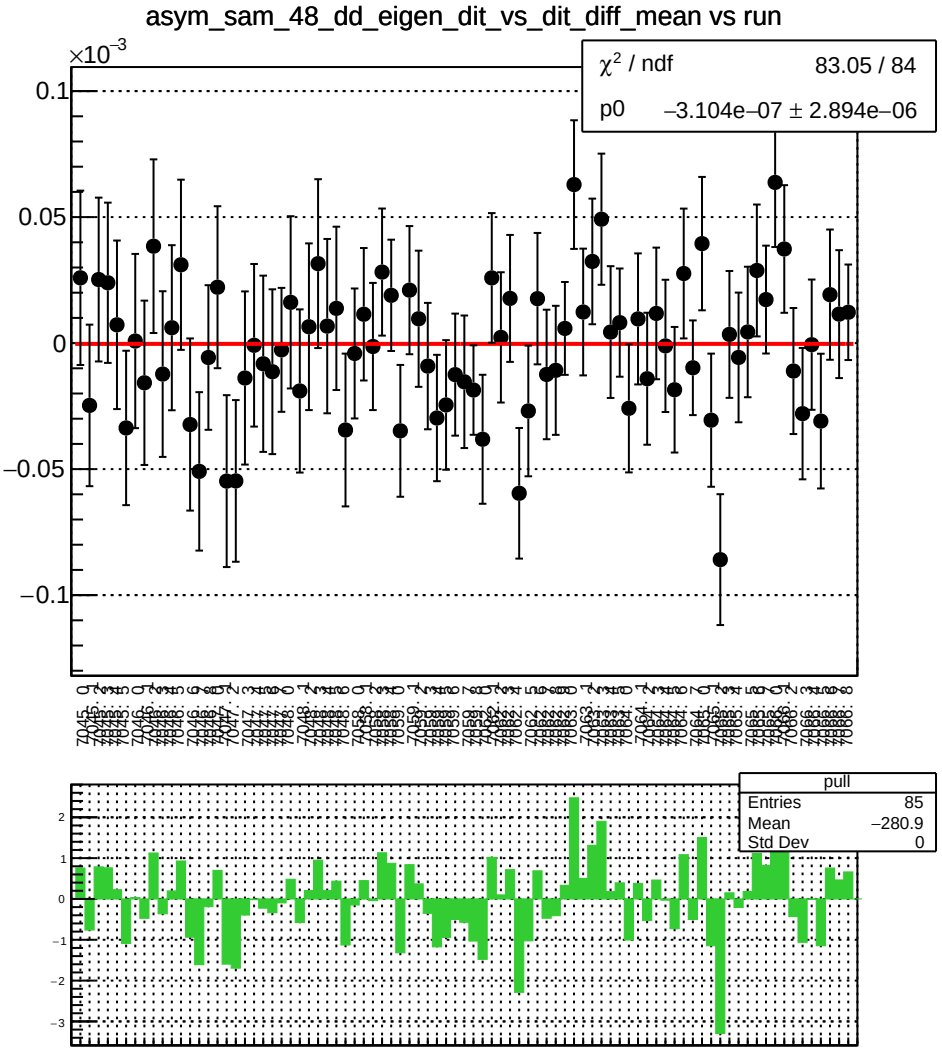

pull1D
Entries 85
Mean 0.03302
Std Dev 1.099

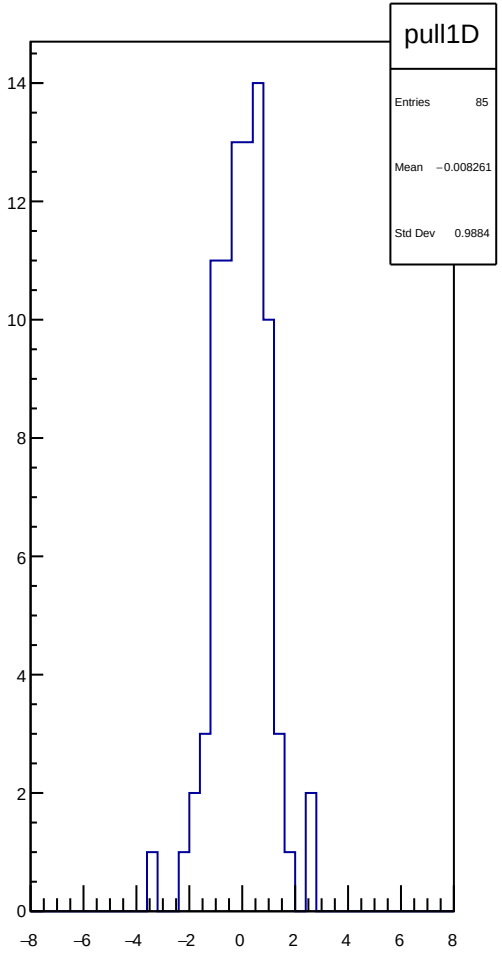

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.211e+05 / 84
p0 47.28 ± 0.03827
180
160
140
120
100
80
60
40

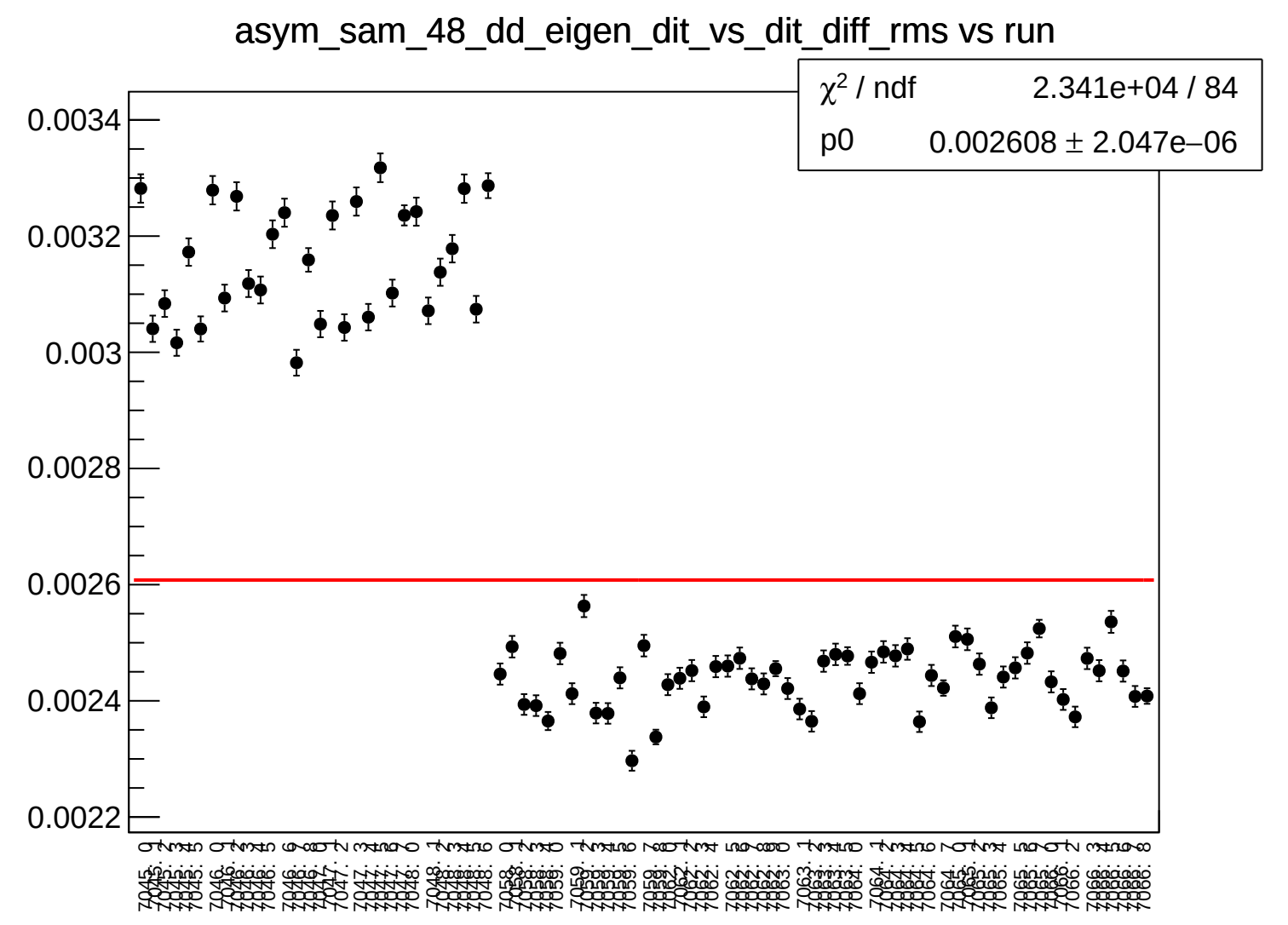

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 84
p0 0.05665 ± 0.05412
pull
Entries 85
Mean 86.74
Std Dev 0

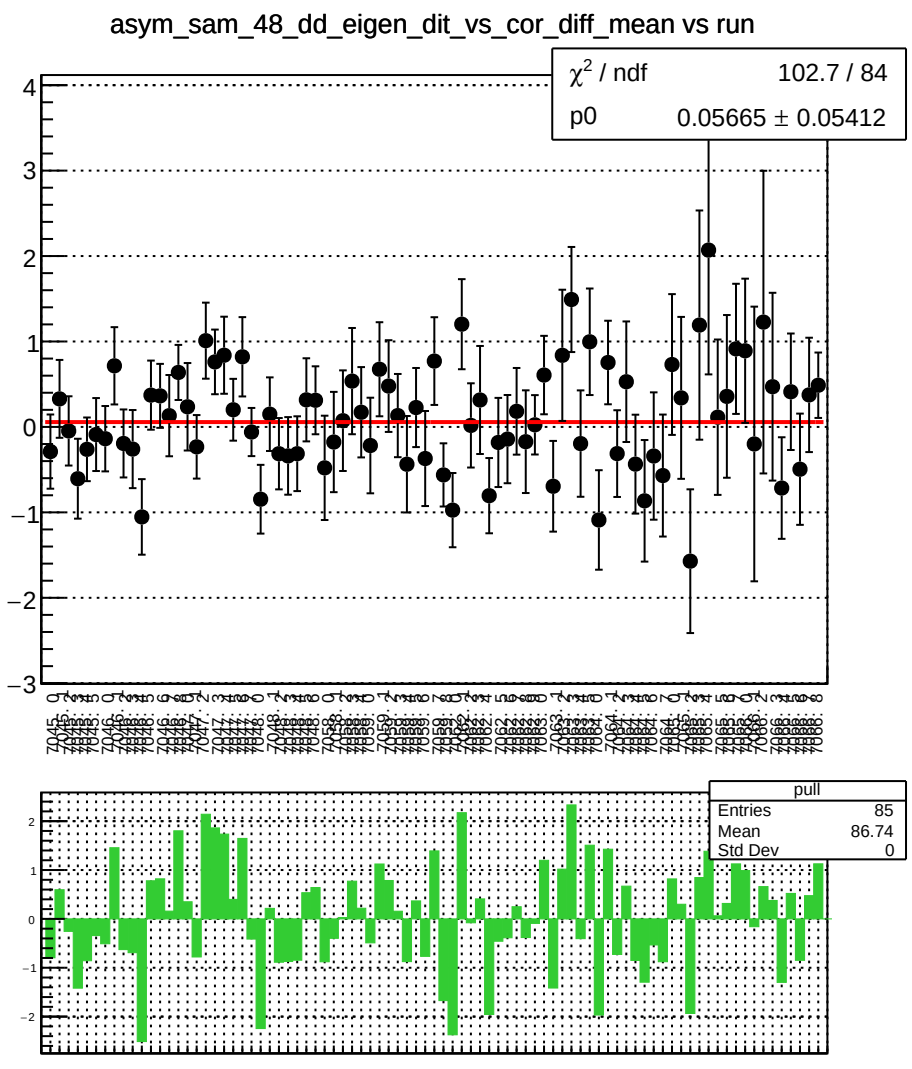

pull1D
Entries 85
Mean 0.03302
Std Dev 1.099

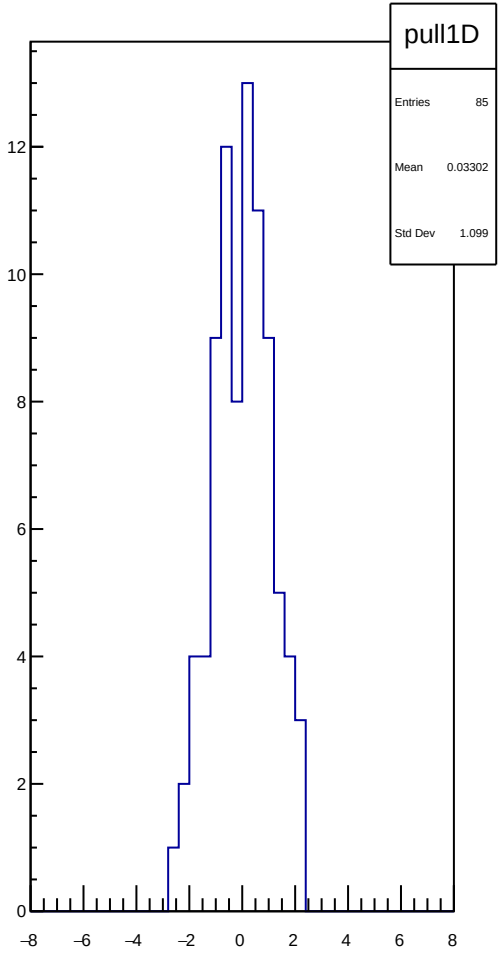

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.211e+05 / 84
p0 47.28 ± 0.03827
180
160
140
120
100
80
60
40

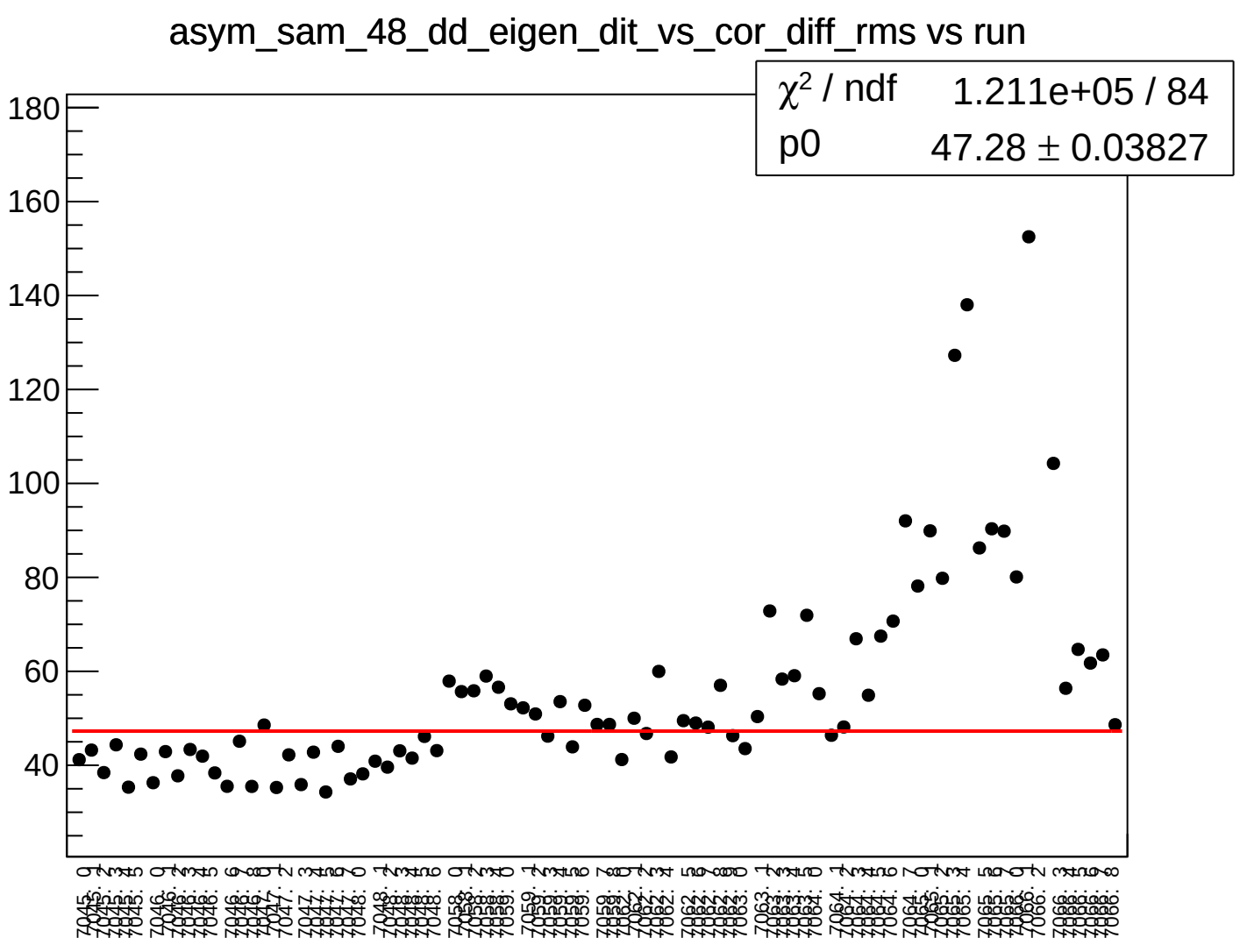

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.05 / 84
p0 −3.104e−07 ± 2.894e−06
pull
Entries 85
Mean −280.9
Std Dev 0

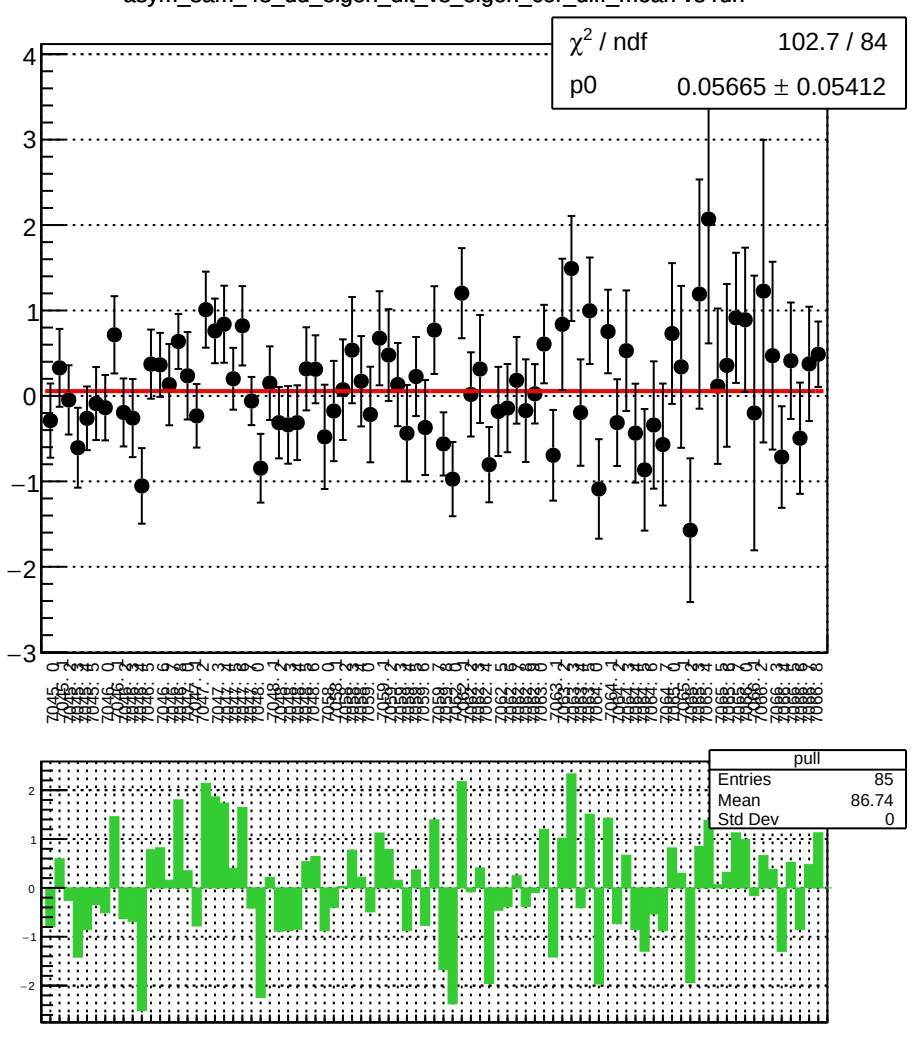

pull1D
Entries 85
Mean −0.008261
Std Dev 0.9884

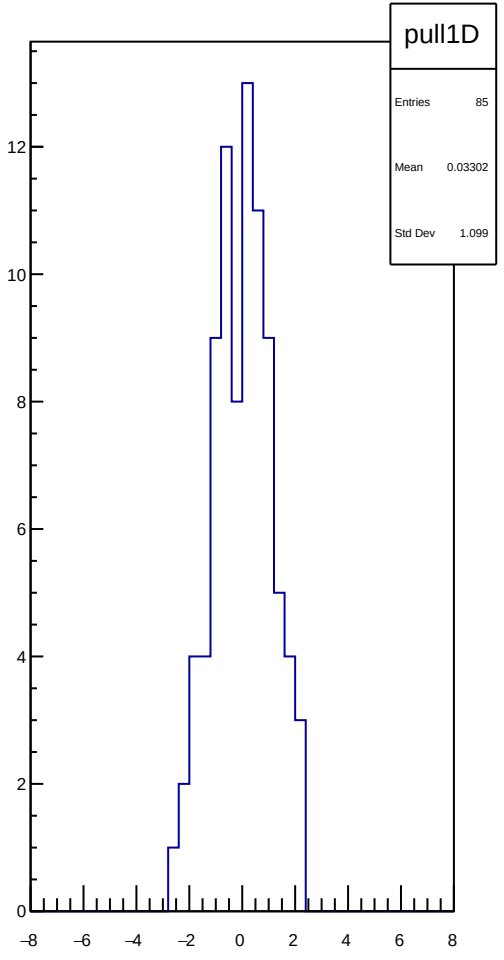

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.341e+04 / 84
p0 0.002608 ± 2.047e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

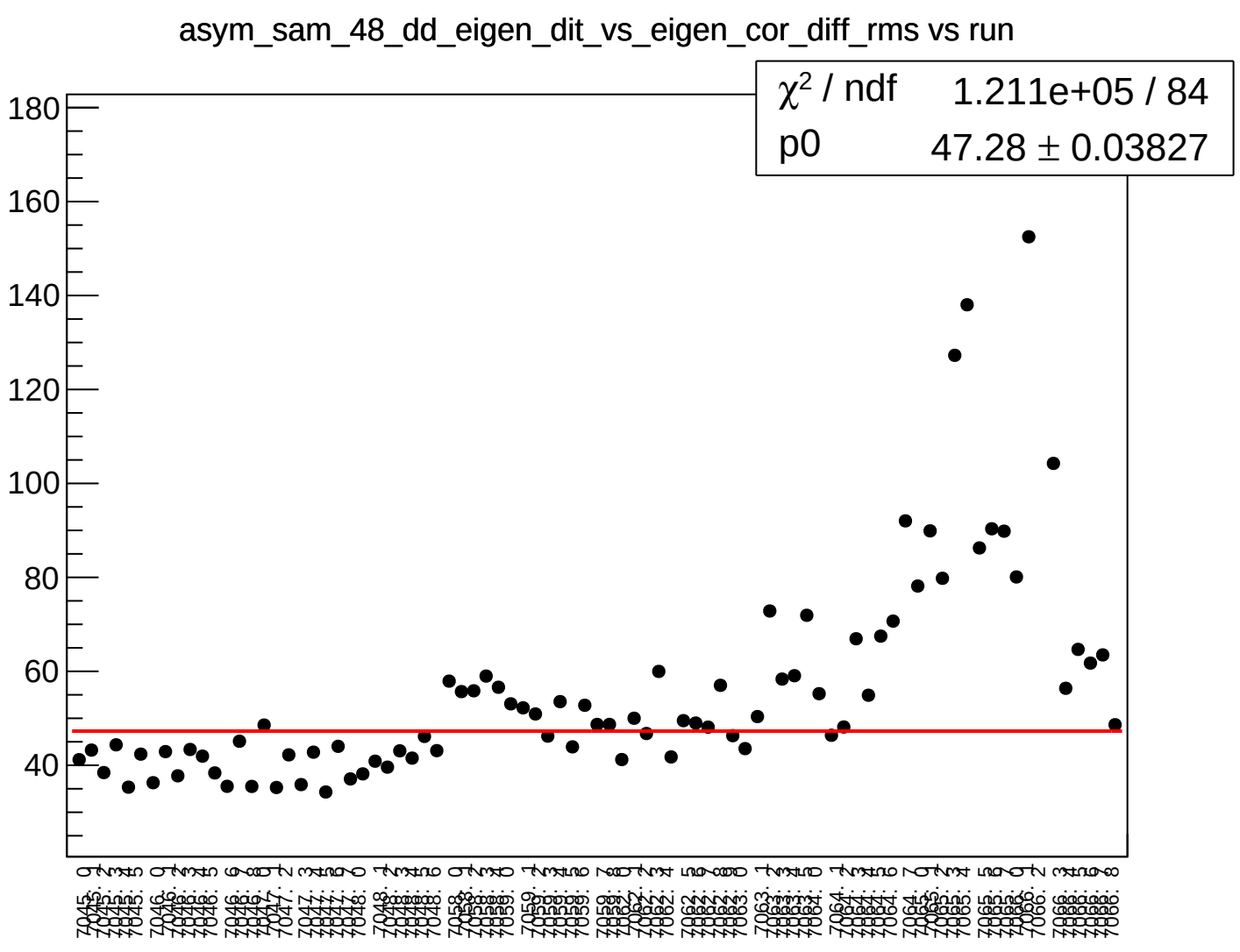

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 84
p0 0.05665 ± 0.05412
pull
Entries 85
Mean 86.74
Std Dev 0

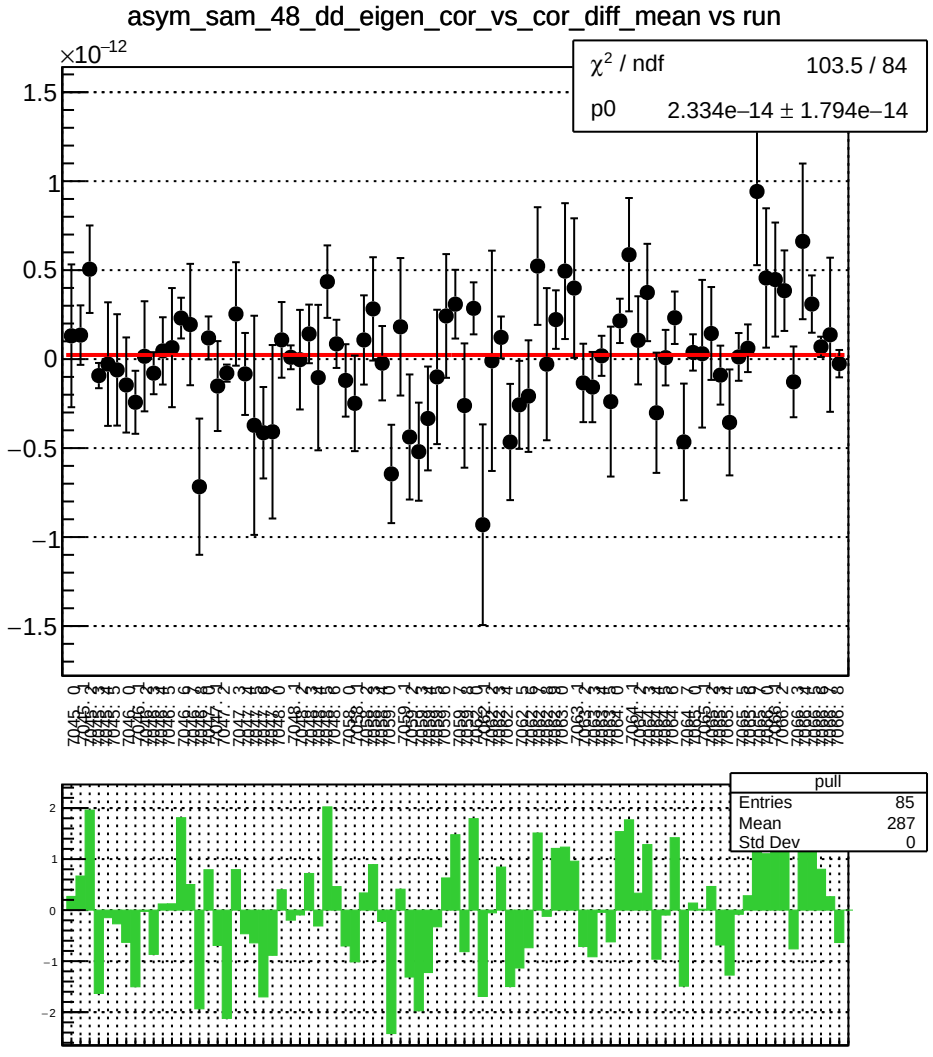

pull1D
Entries 85
Mean 0.03302
Std Dev 1.099

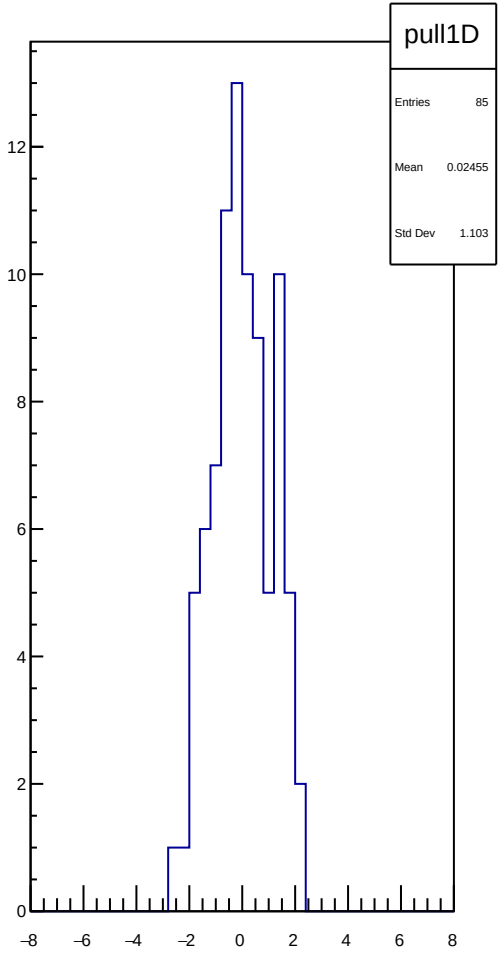

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.211e+05 / 84
p0 47.28 ± 0.03827
180
160
140
120
100
80
60
40

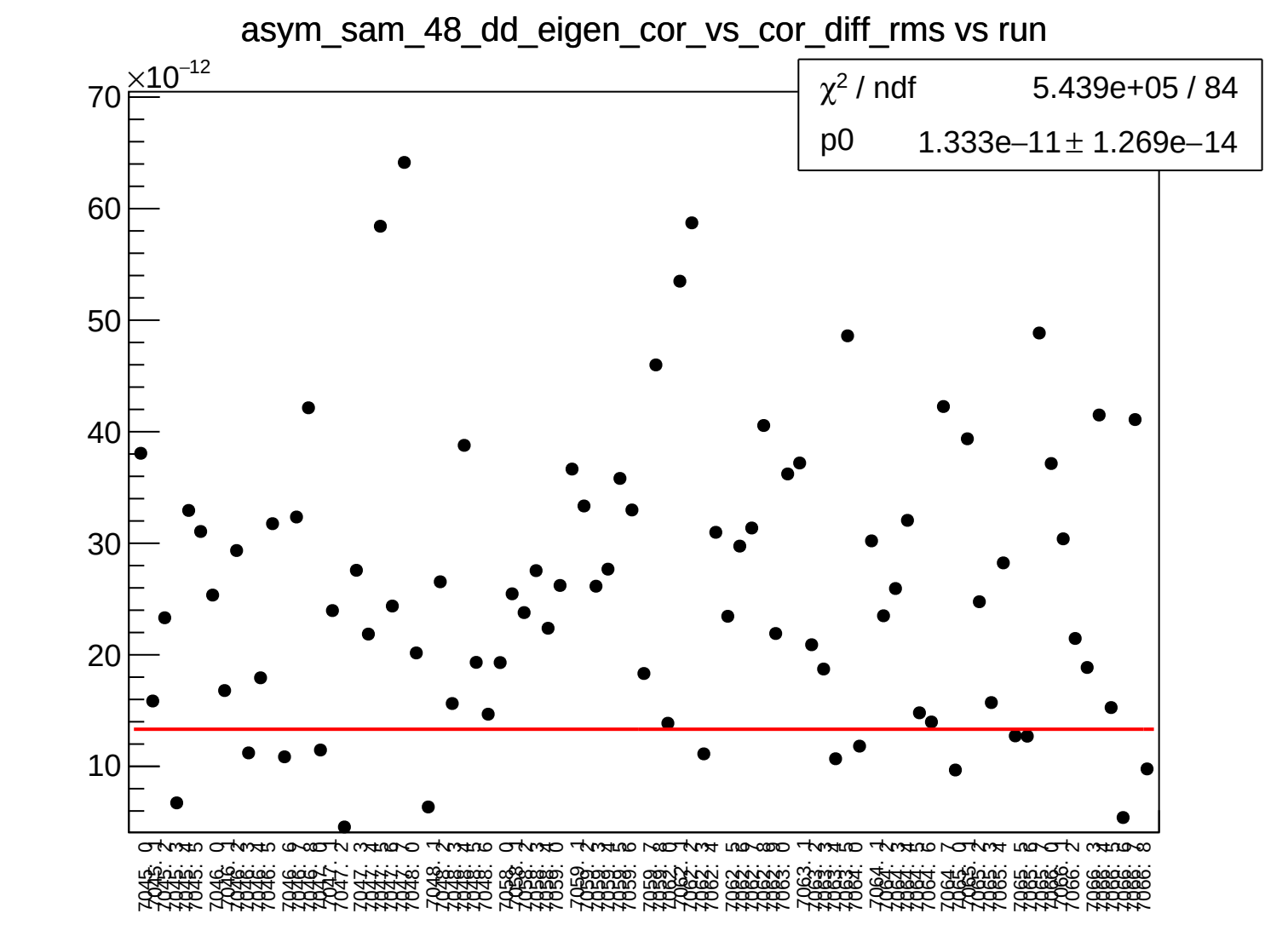

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 84
p0 0.05665 ± 0.05412
pull
Entries 85
Mean 86.74
Std Dev 0

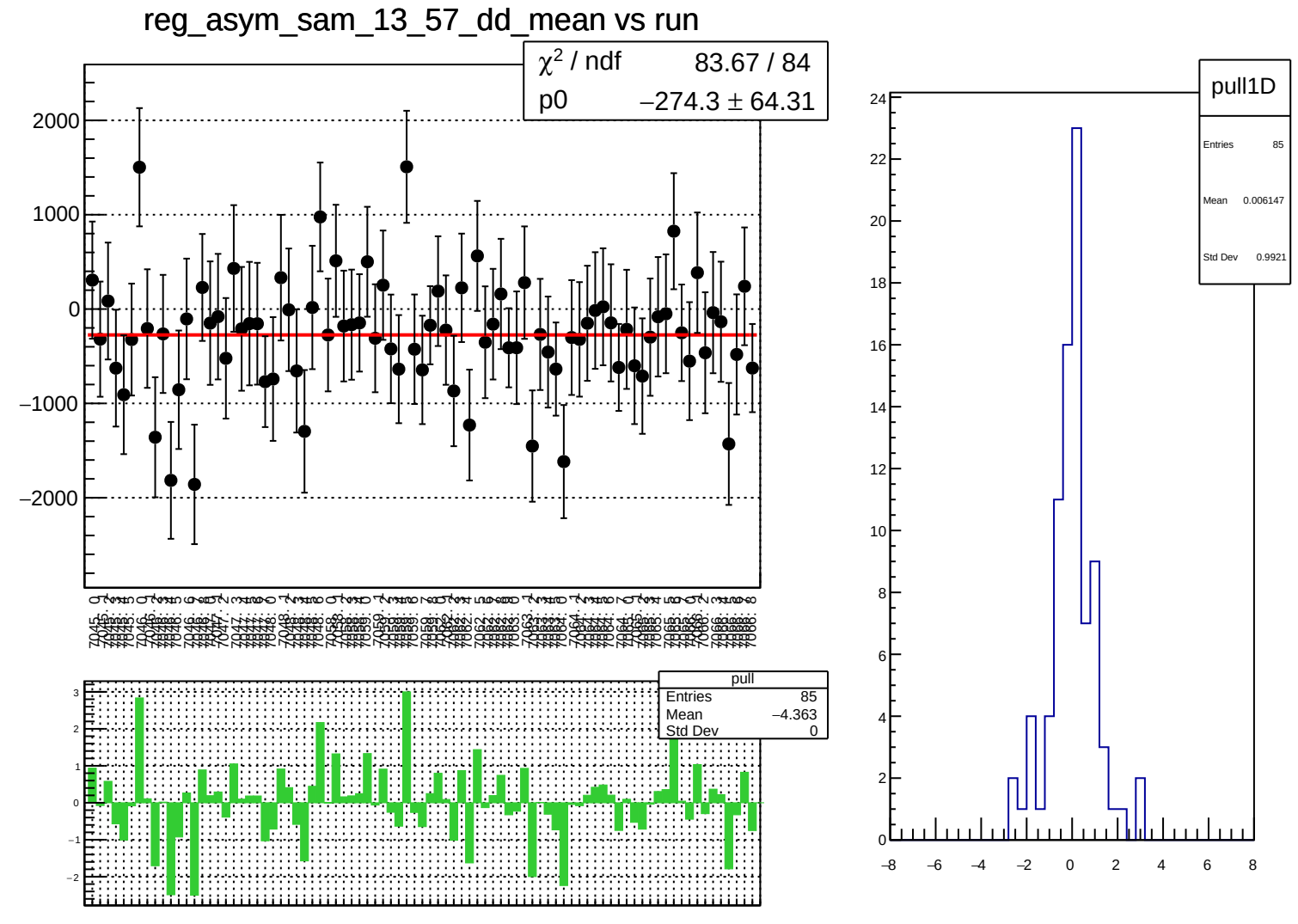

pull1D
Entries 85
Mean 0.03302
Std Dev 1.099

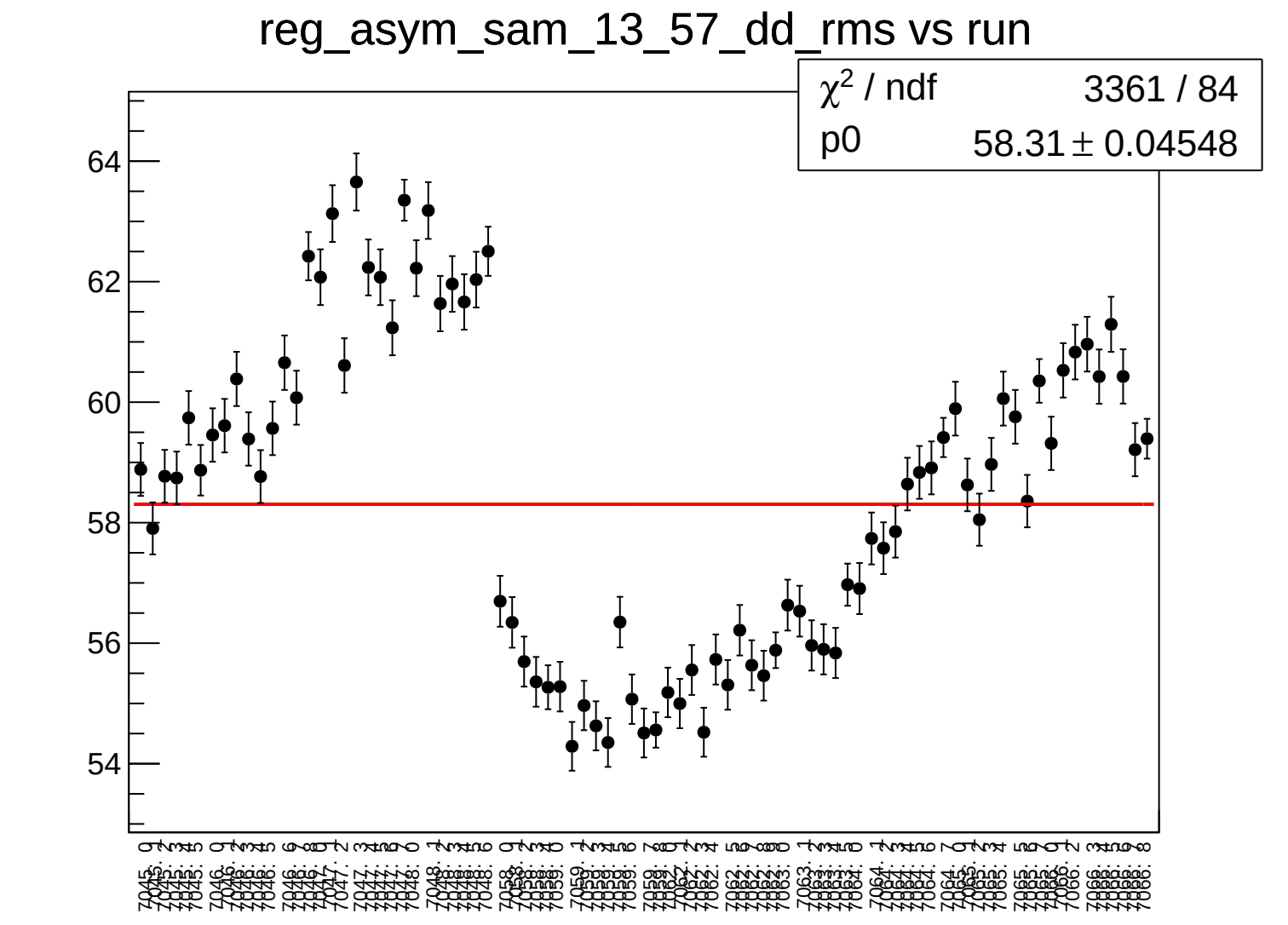

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.211e+05 / 84
p0 47.28 ± 0.03827
180
160
140
120
100
80
60
40

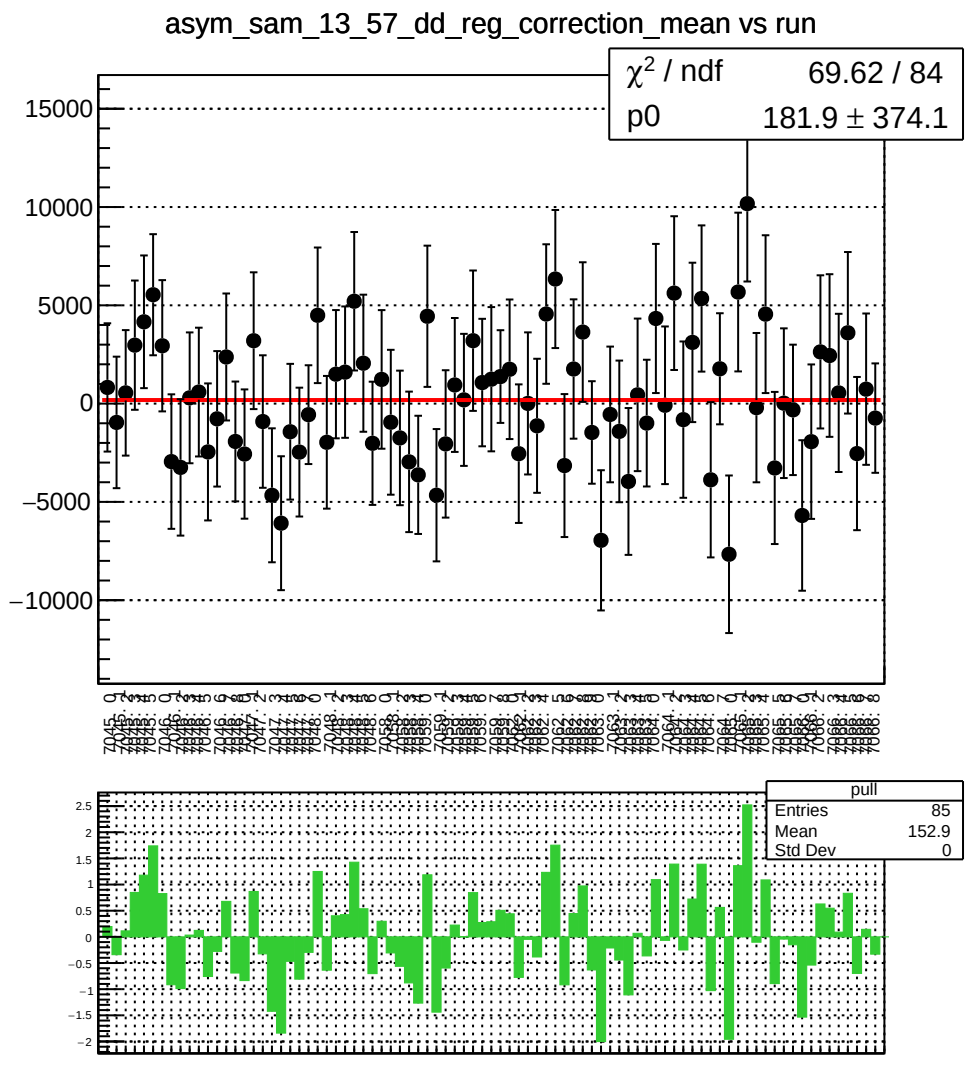

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.5 / 84
p0 2.334e−14 ± 1.794e−14
pull
Entries 85
Mean 287
Std Dev 0

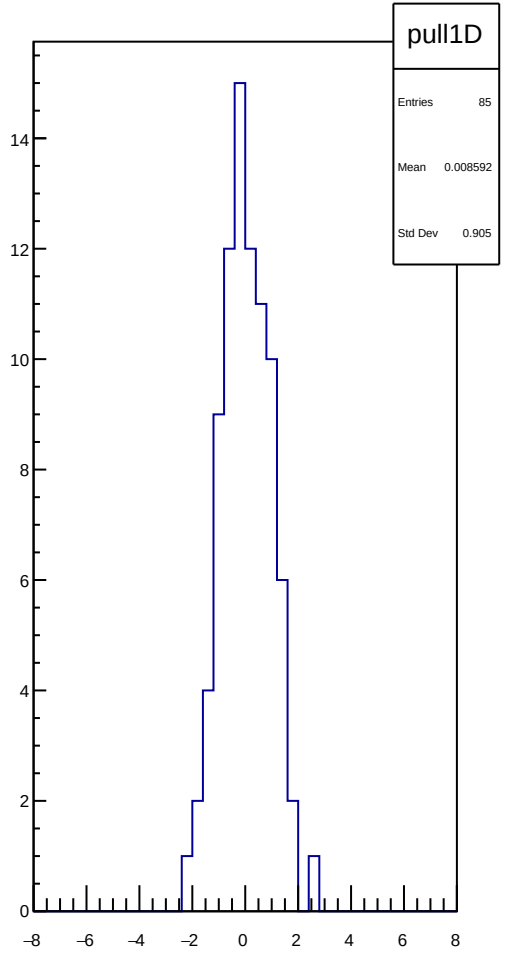

pull1D
Entries 85
Mean 0.02455
Std Dev 1.103

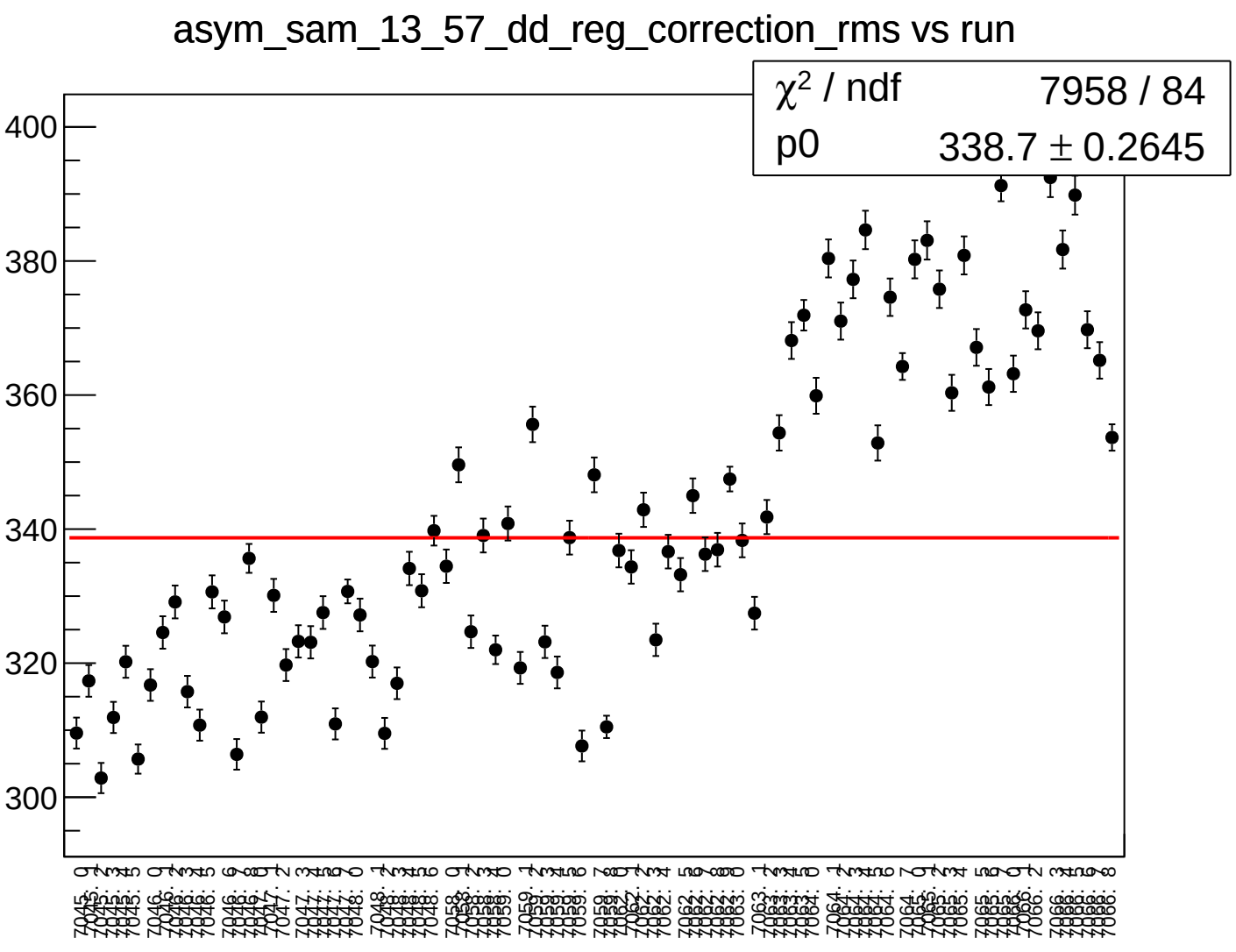

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.439e+05 / 84
p0 1.333e−11 ± 1.269e−14

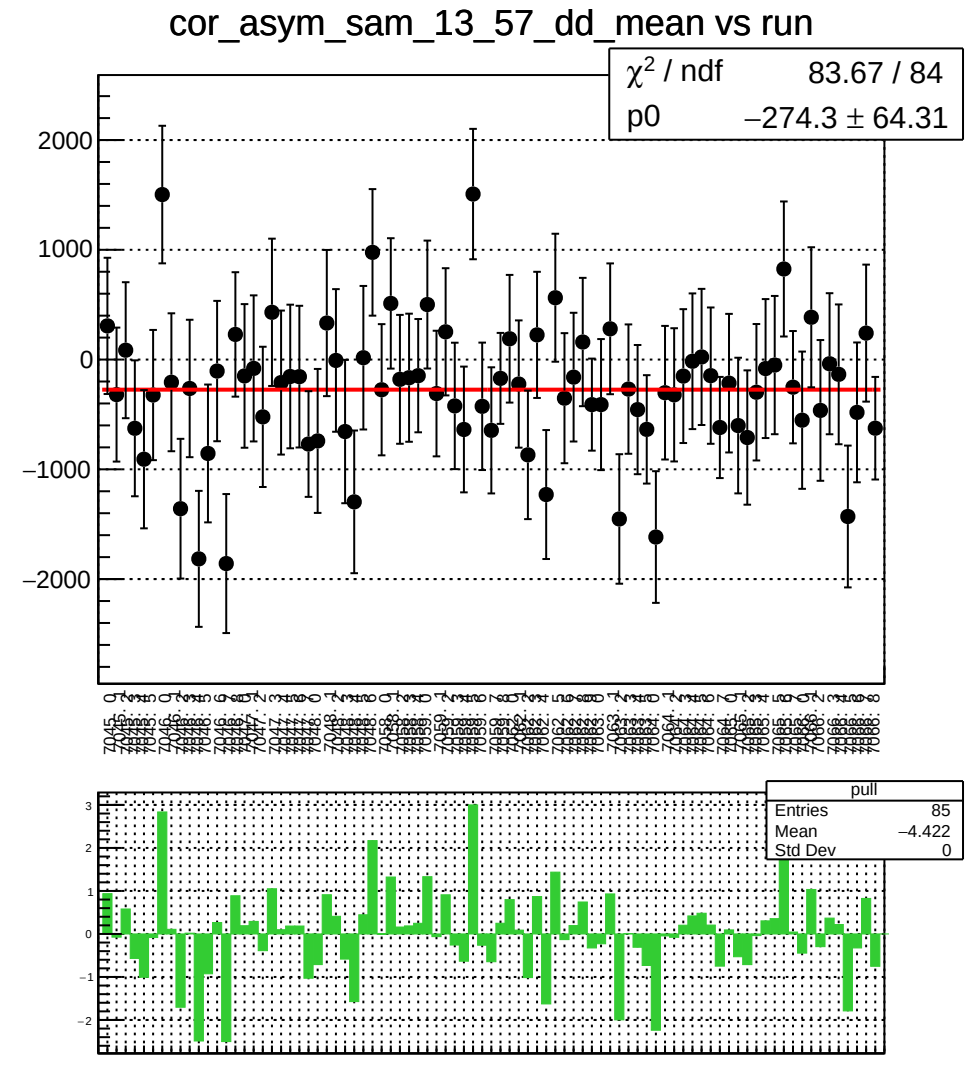

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.67 / 84
p0 −274.3 ± 64.31
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −4.363
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.006147
Std Dev 0.9921
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

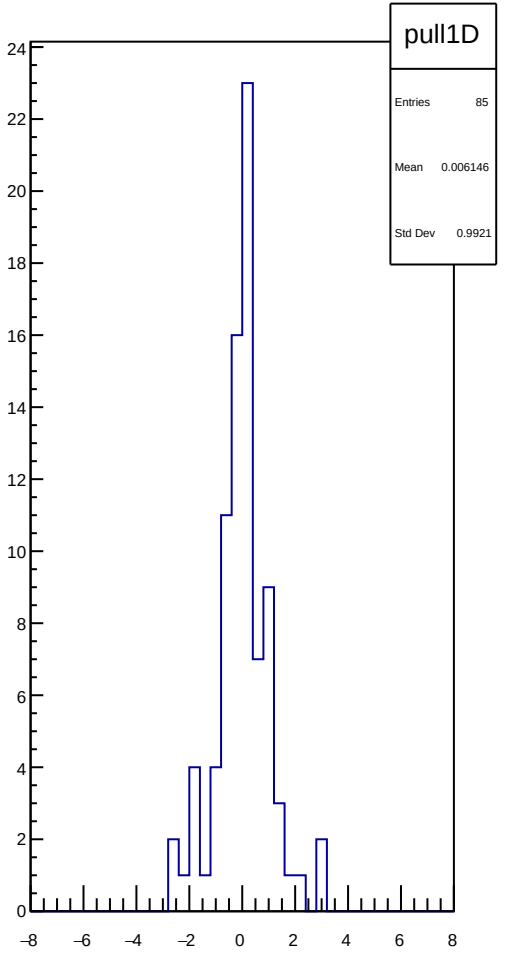

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 3361 / 84
p0 58.31 ± 0.04548
64
62
60
58
56
54

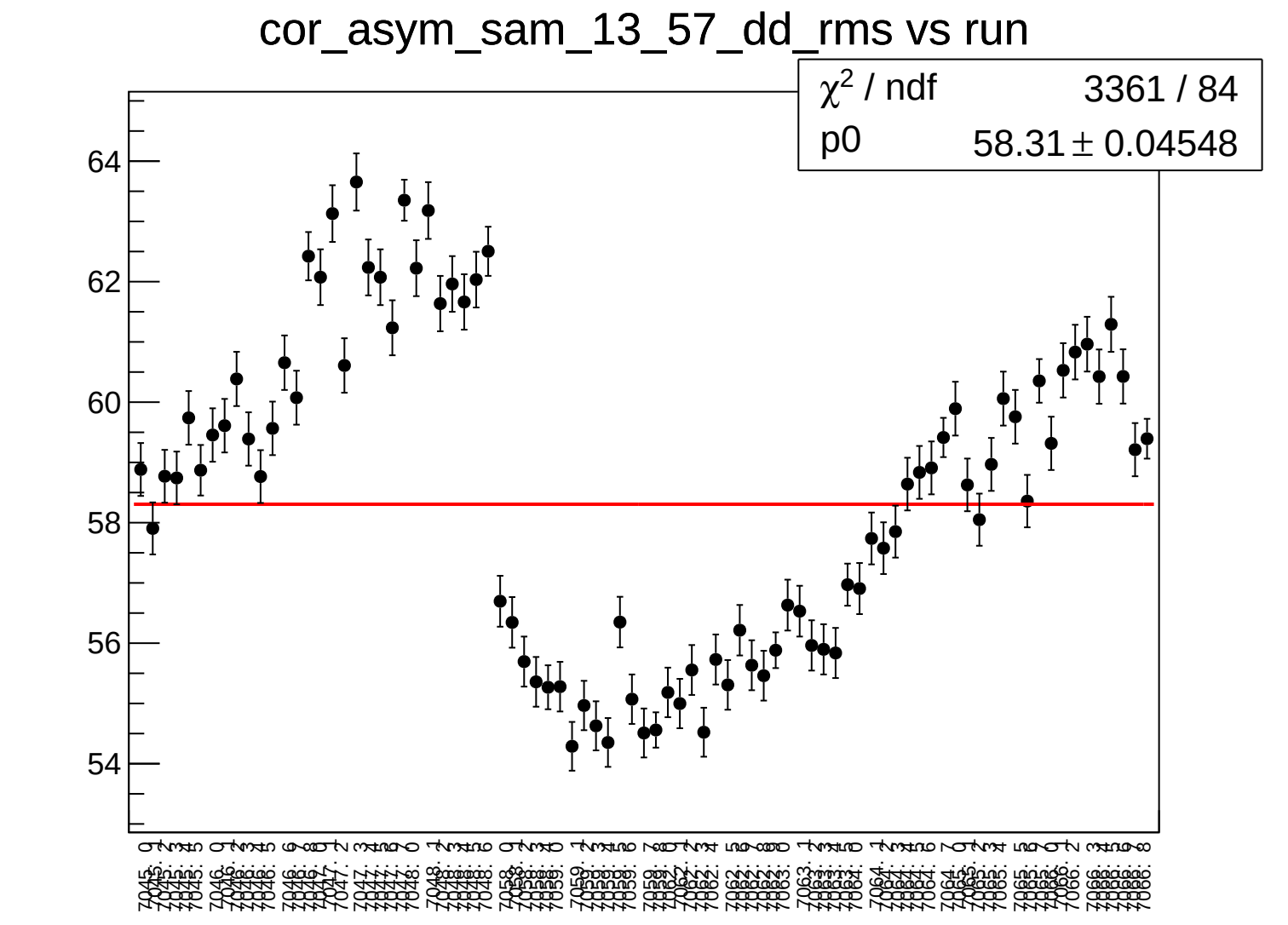

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 69.62 / 84
p0 181.9 ± 374.1
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 152.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

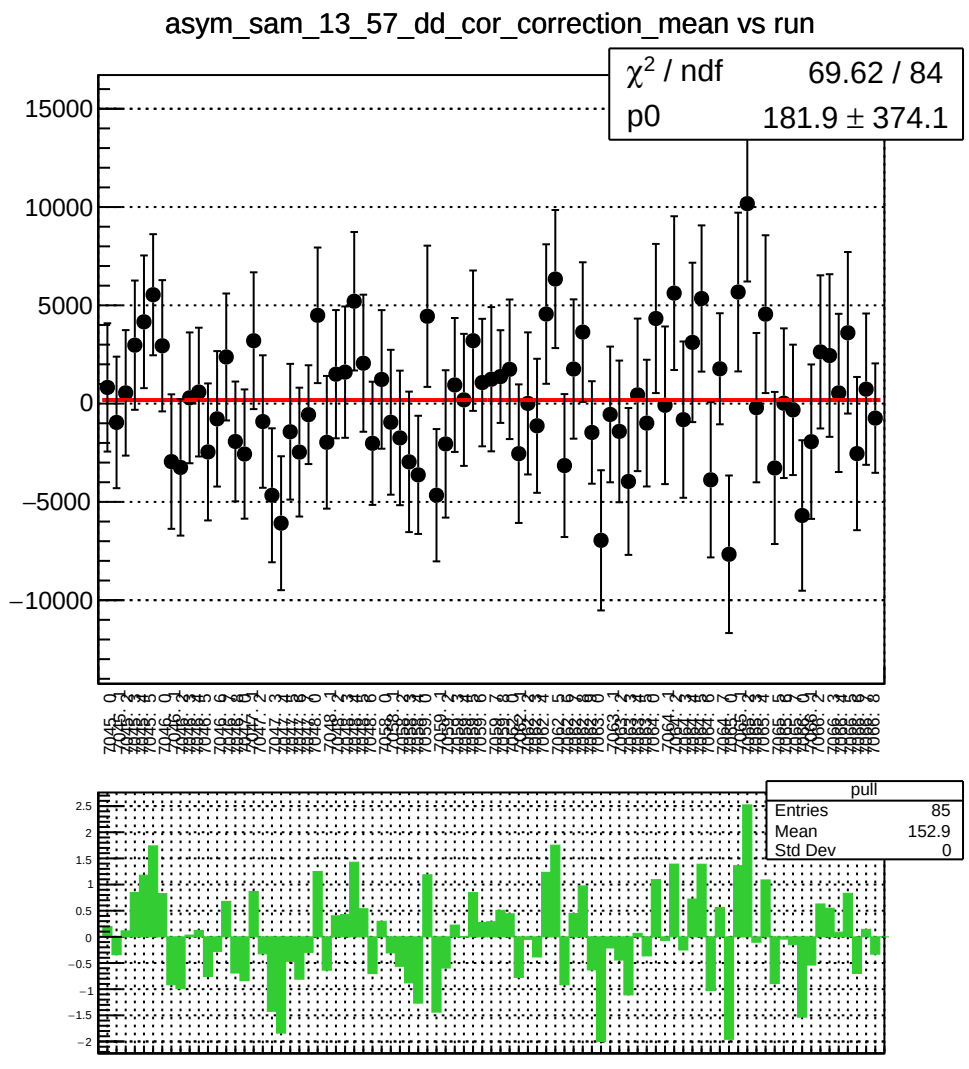

pull1D
Entries 85
Mean 0.008592
Std Dev 0.905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

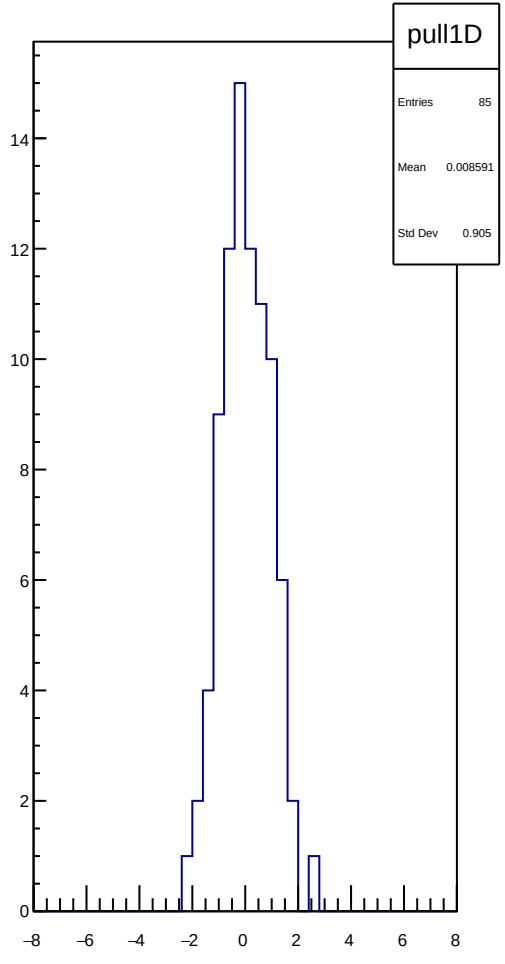

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 7958 / 84
p0 338.7 ± 0.2645
400
380
360
340
320
300

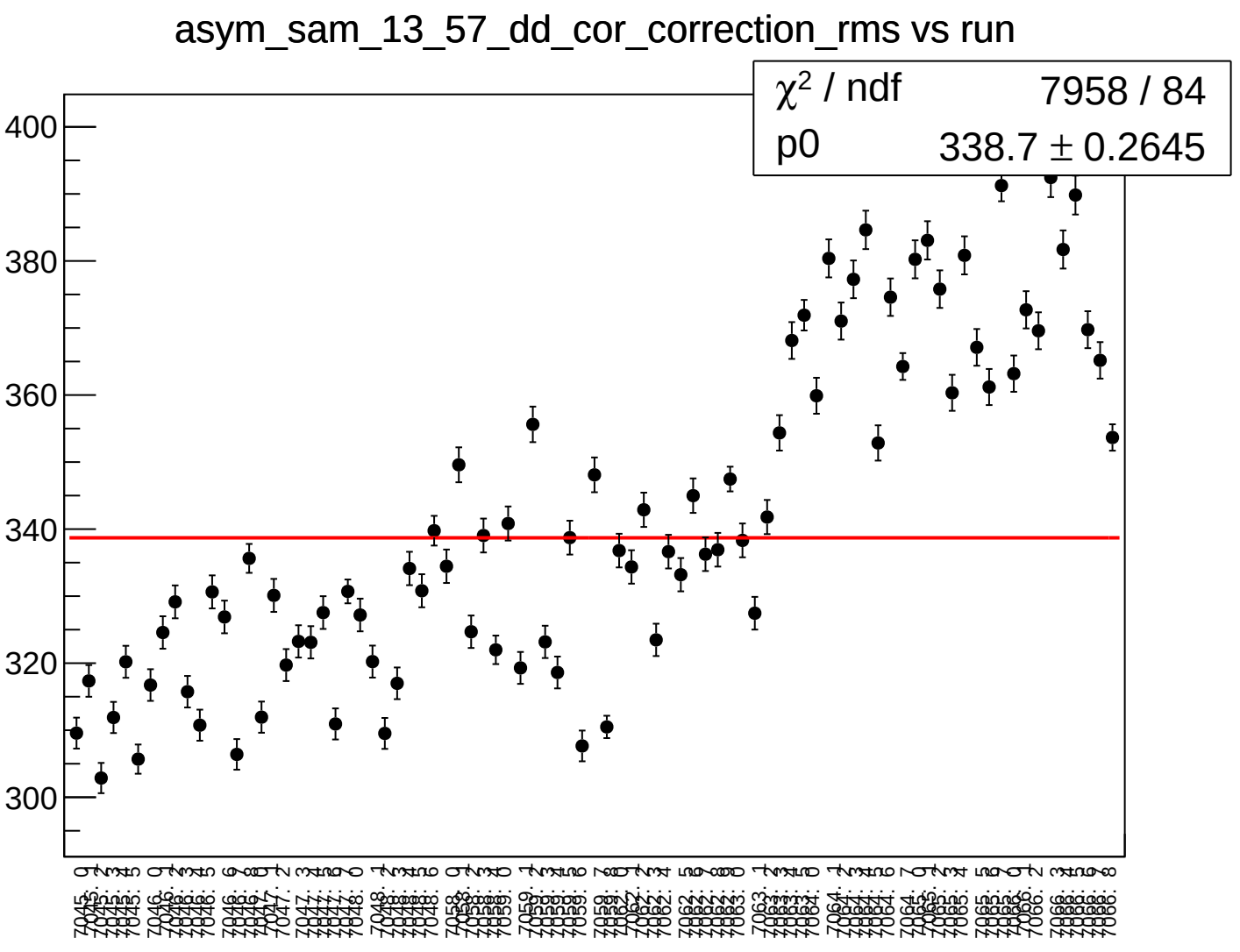

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.67 / 84
p0 −274.3 ± 64.31
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −4.422
Std Dev 0
3
2
1
0
−1
−2

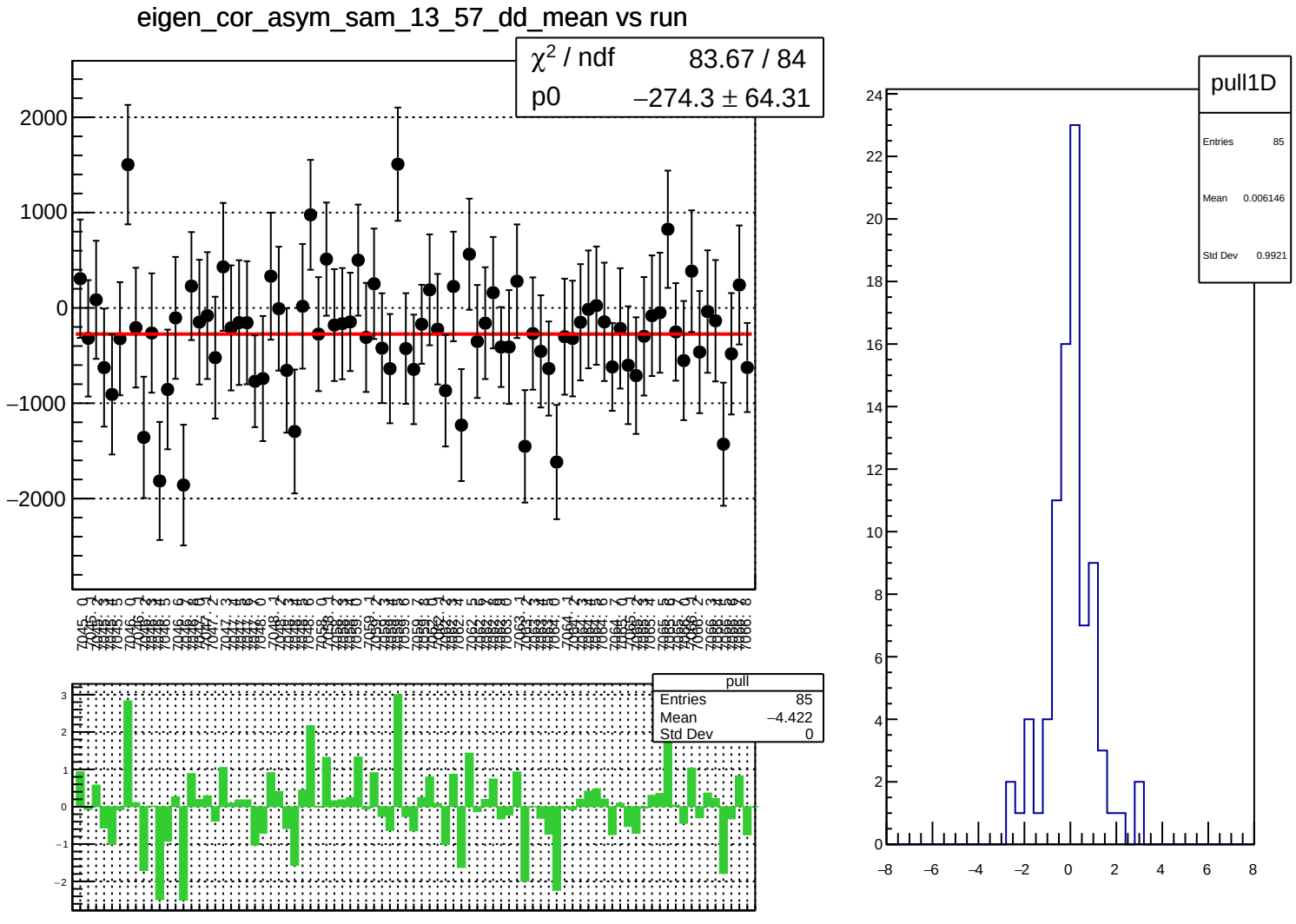

pull1D
Entries 85
Mean 0.006146
Std Dev 0.9921
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

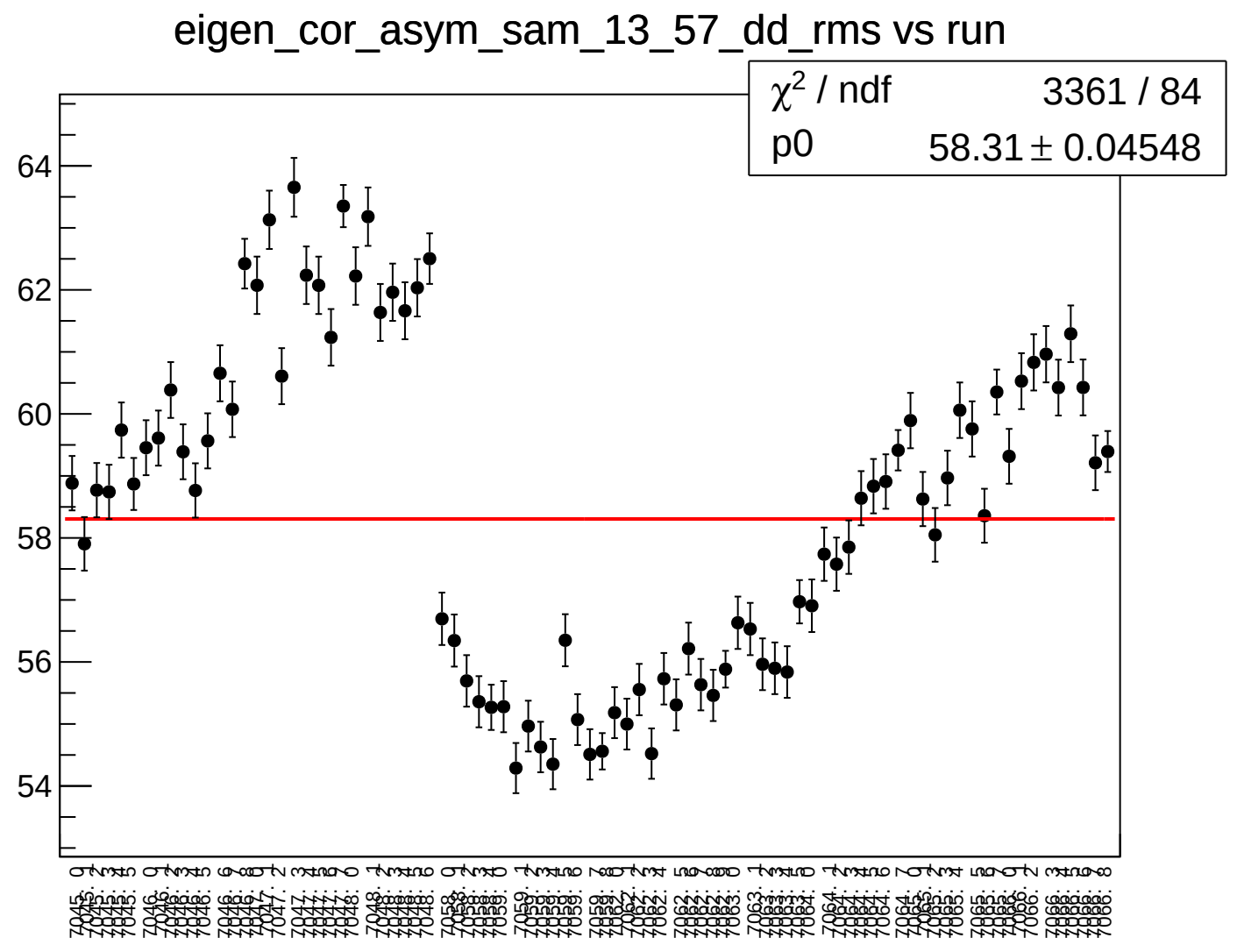

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3361 / 84
p0 58.31 ± 0.04548
64
62
60
58
56
54

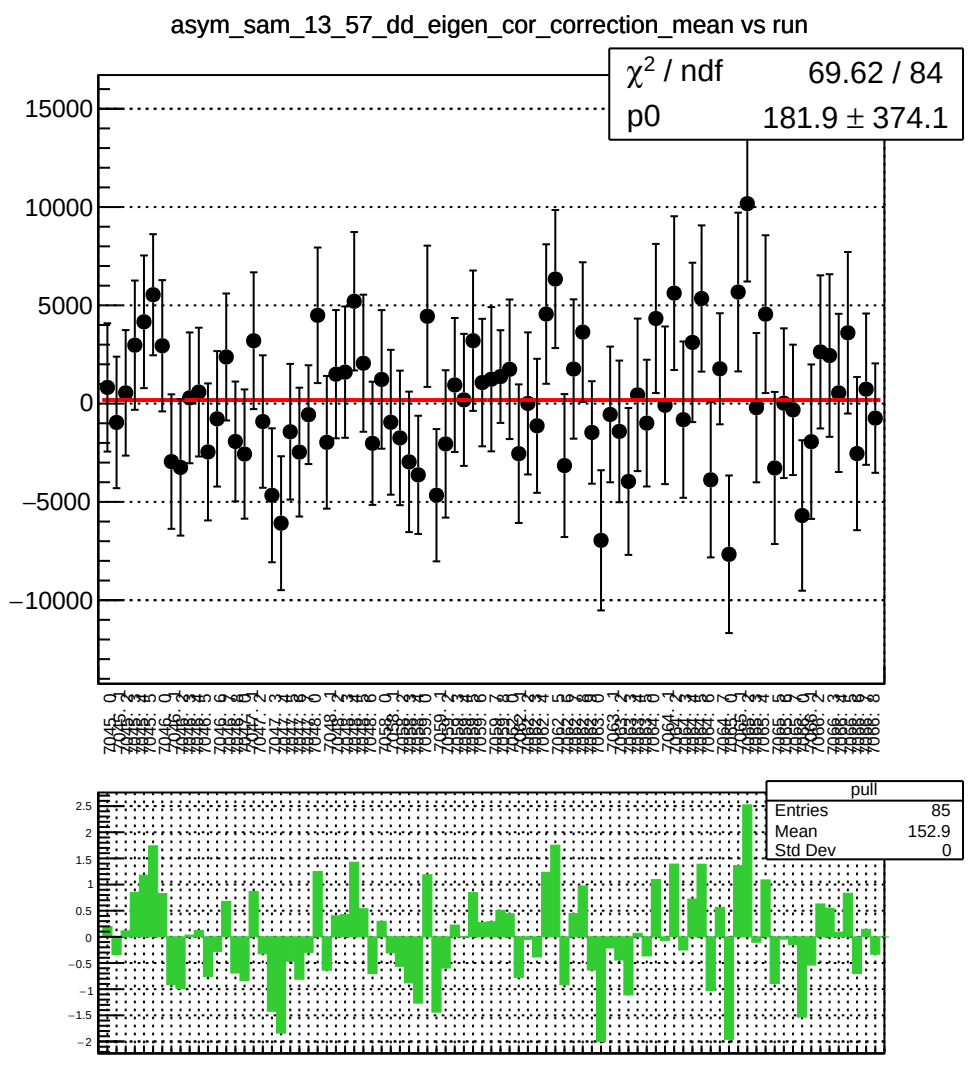

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 69.62 / 84
p0 181.9 ± 374.1
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 152.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

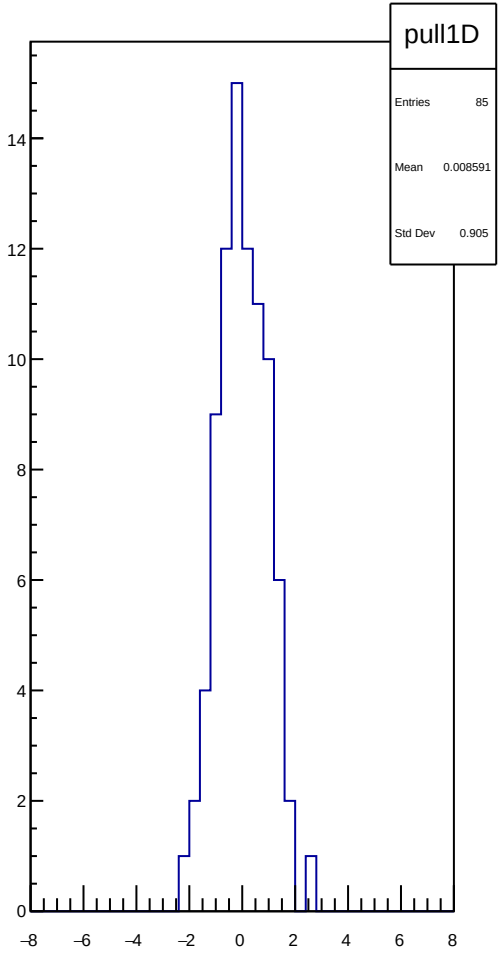

pull1D
Entries 85
Mean 0.008591
Std Dev 0.905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

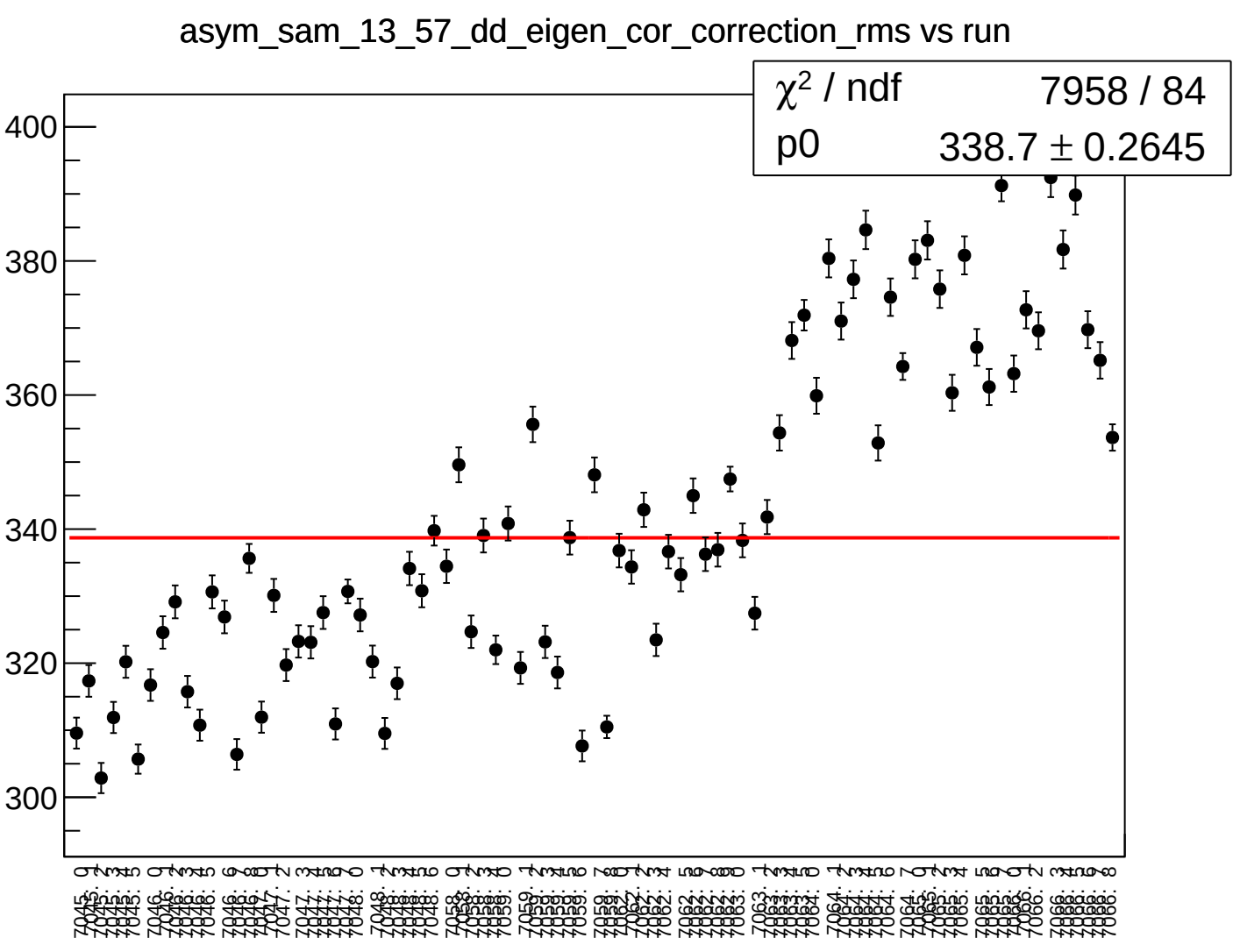

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 7958 / 84
p0 338.7 ± 0.2645
400
380
360
340
320
300

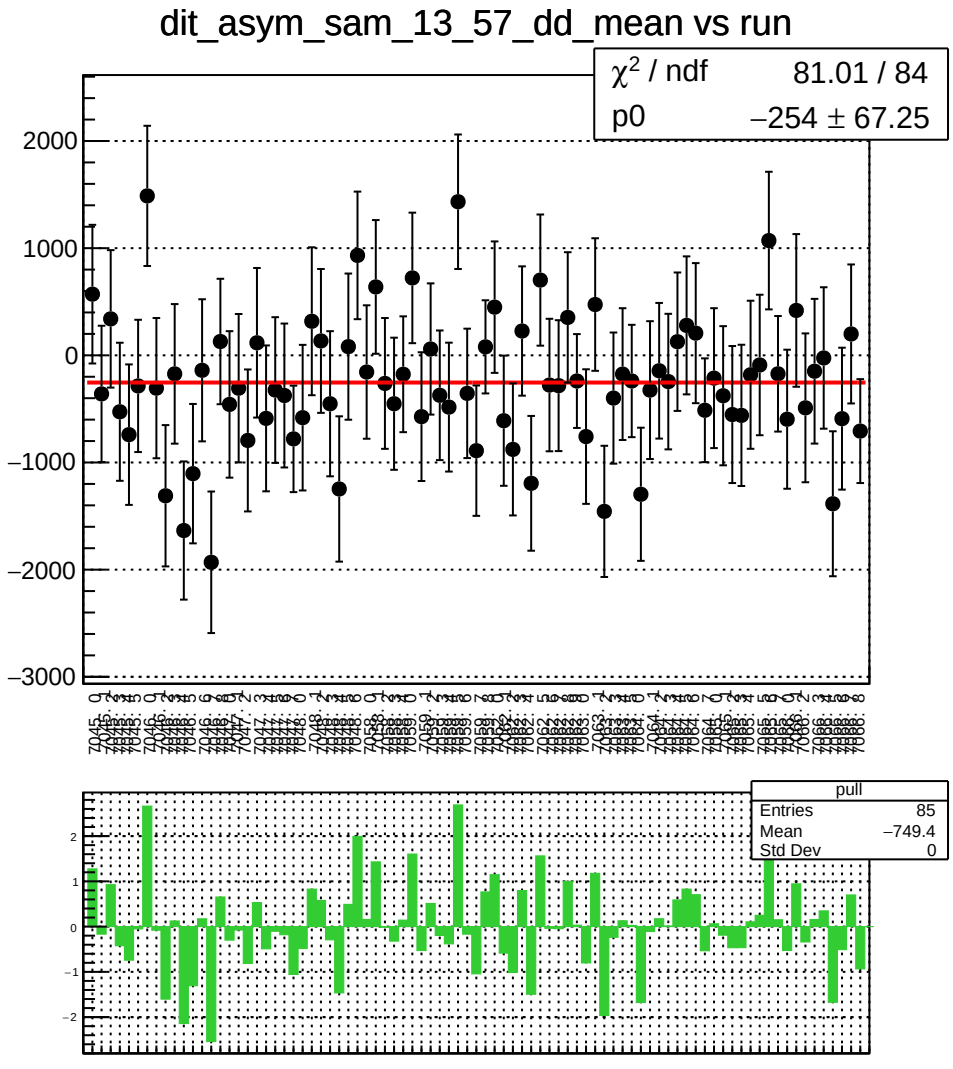

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.67 / 84
p0 −274.3 ± 64.31
pull
Entries 85
Mean −4.422
Std Dev 0
pull1D
Entries 85
Mean 0.006146
Std Dev 0.9921

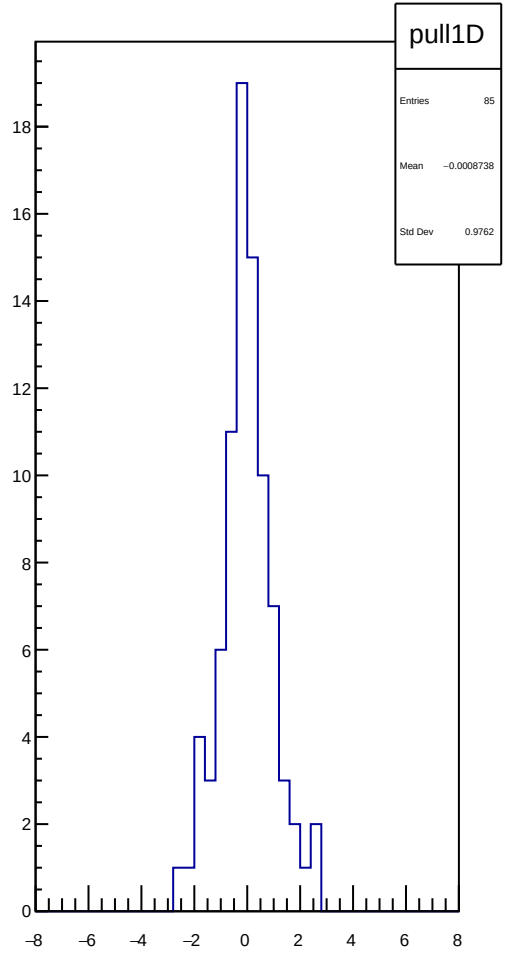

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 3361 / 84
p0 58.31 ± 0.04548
64
62
60
58
56
54

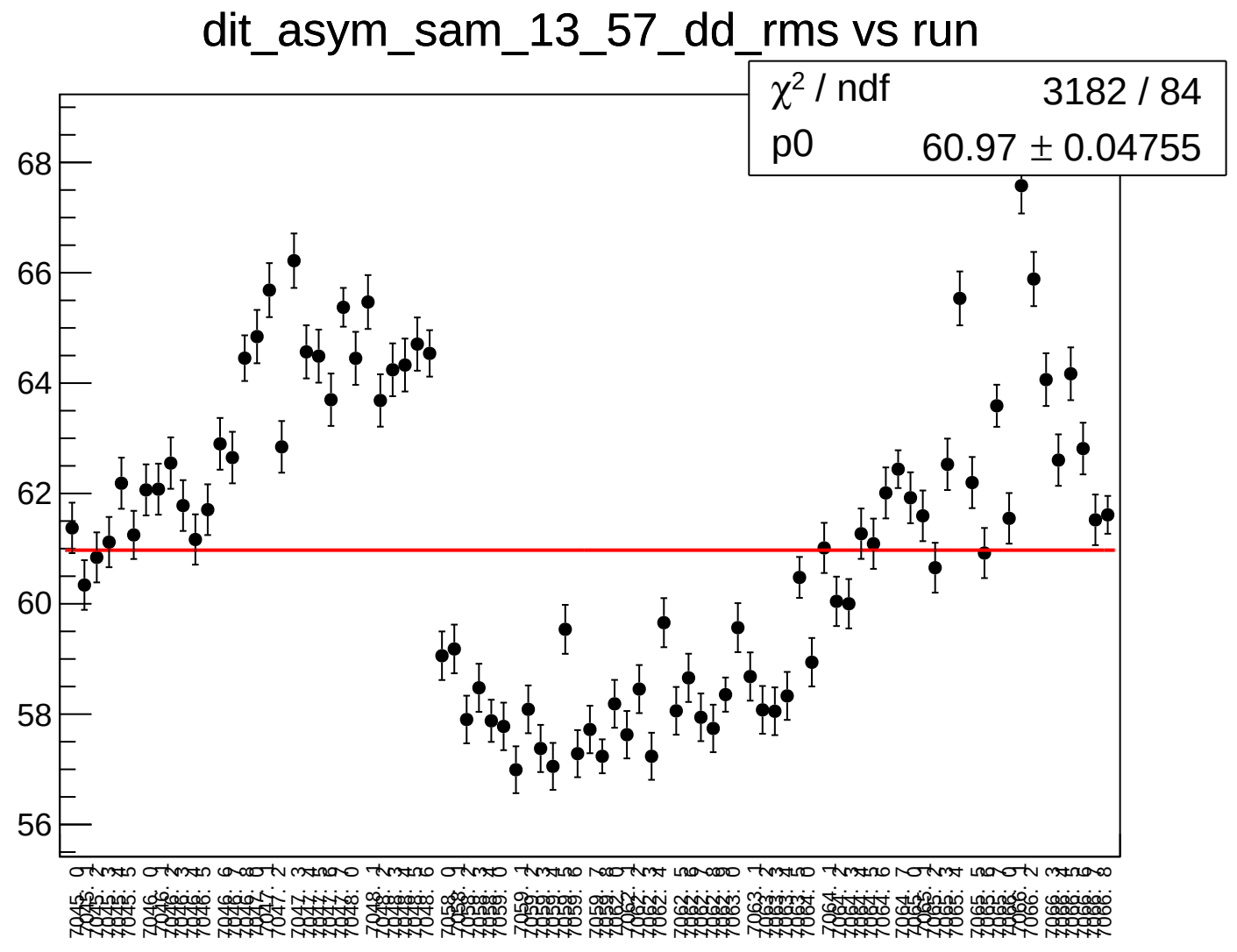

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.62 / 84
p0 181.9 ± 374.1
pull
Entries 85
Mean 152.9
Std Dev 0

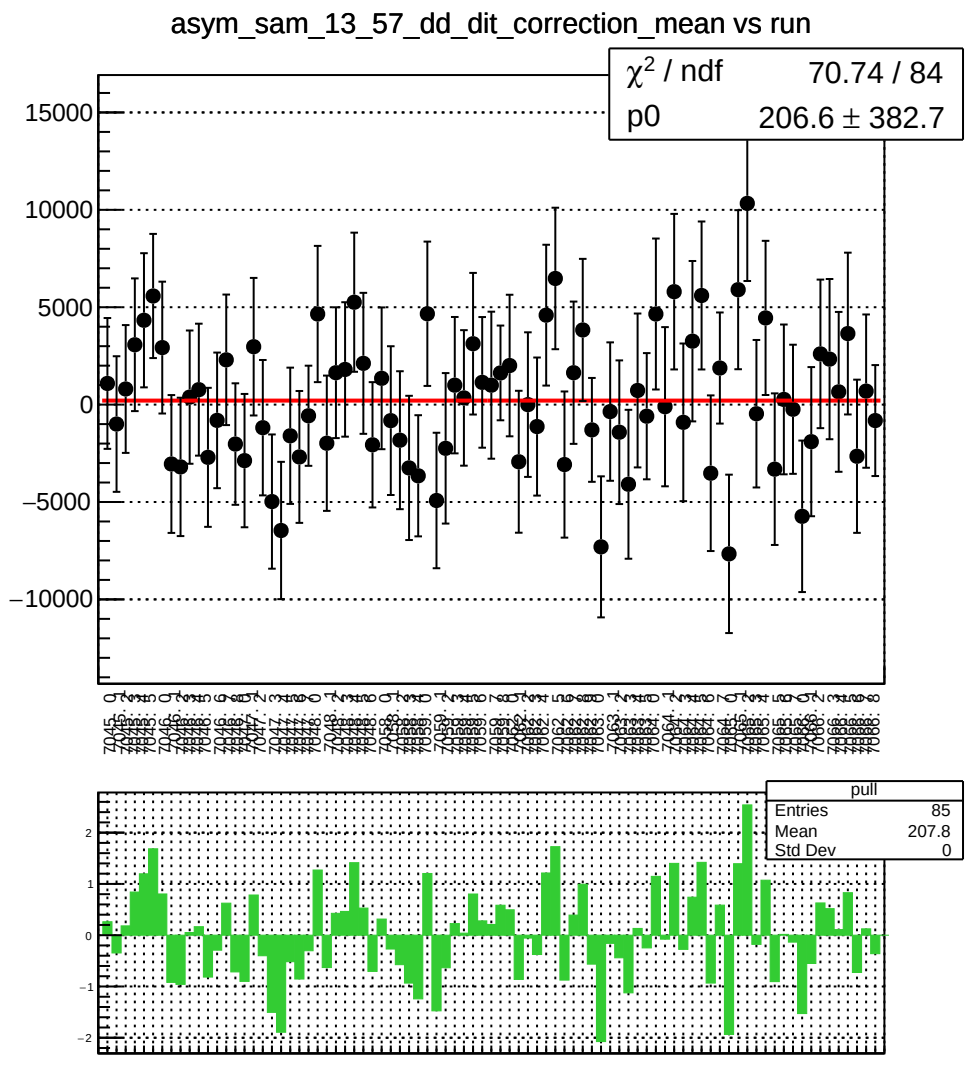

pull1D
Entries 85
Mean 0.008591
Std Dev 0.905

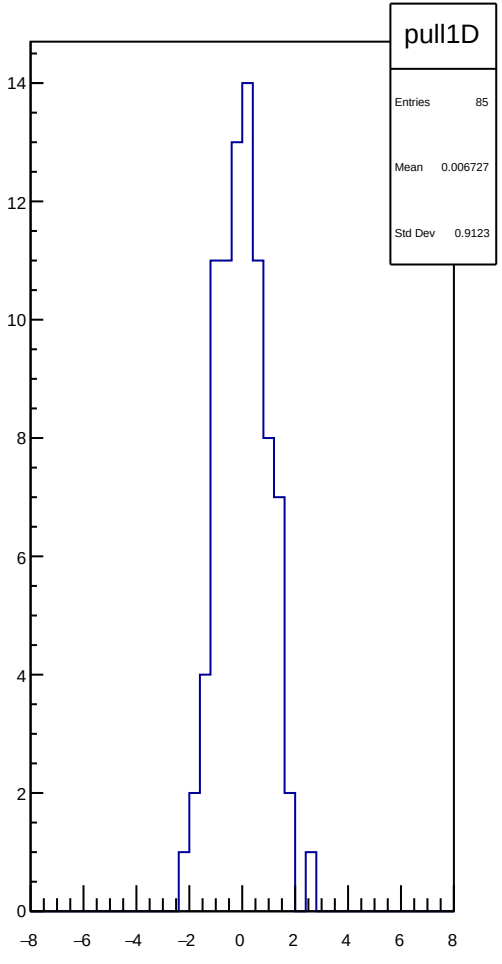

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 7958 / 84
p0 338.7 ± 0.2645
400
380
360
340
320
300

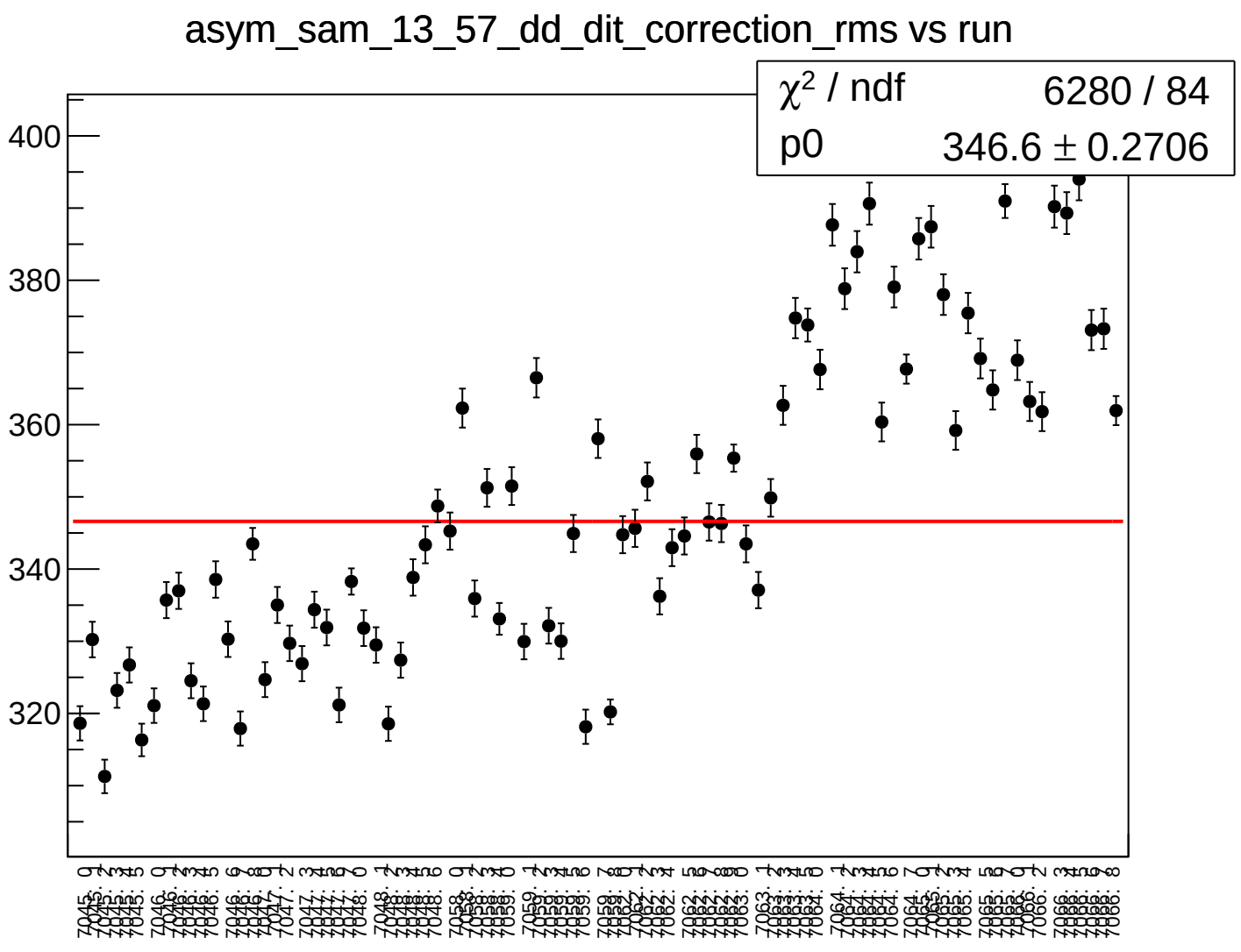

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.01 / 84
p0 −254 ± 67.25
pull
Entries 85
Mean −749.4
Std Dev 0

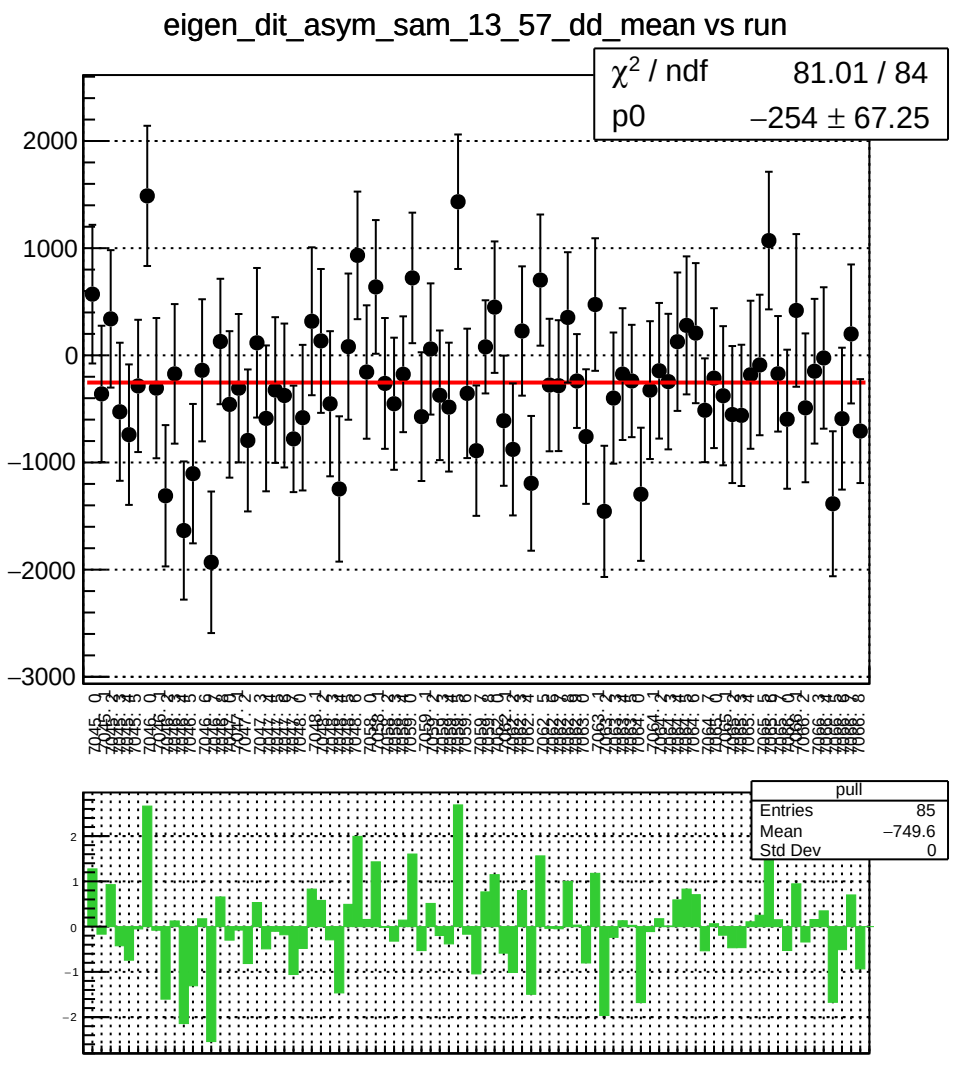

pull1D
Entries 85
Mean −0.0008738
Std Dev 0.9762

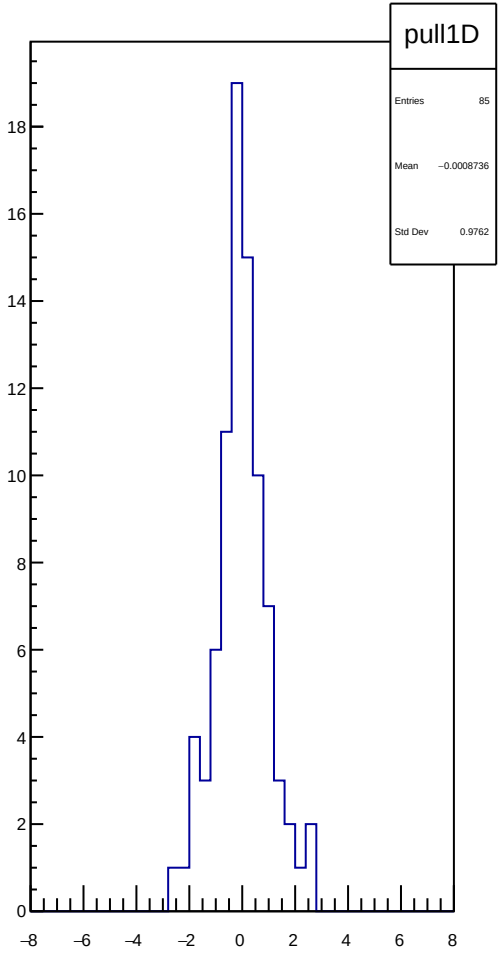

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3182 / 84
p0 60.97 ± 0.04755
68
66
64
62
60
58
56

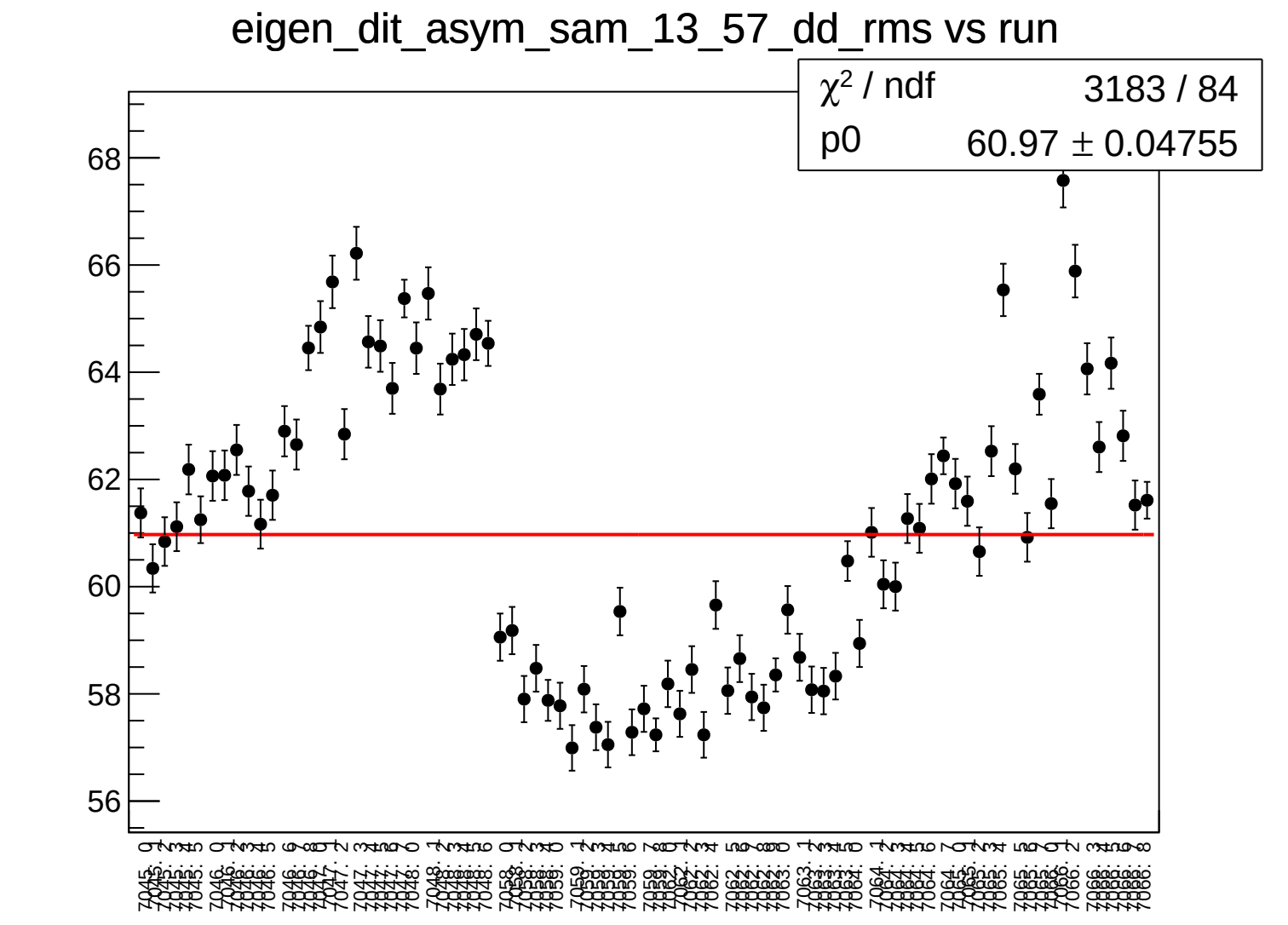

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 70.74 / 84
p0 206.6 ± 382.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 207.8
Std Dev 0
2
1
0
−1
−2

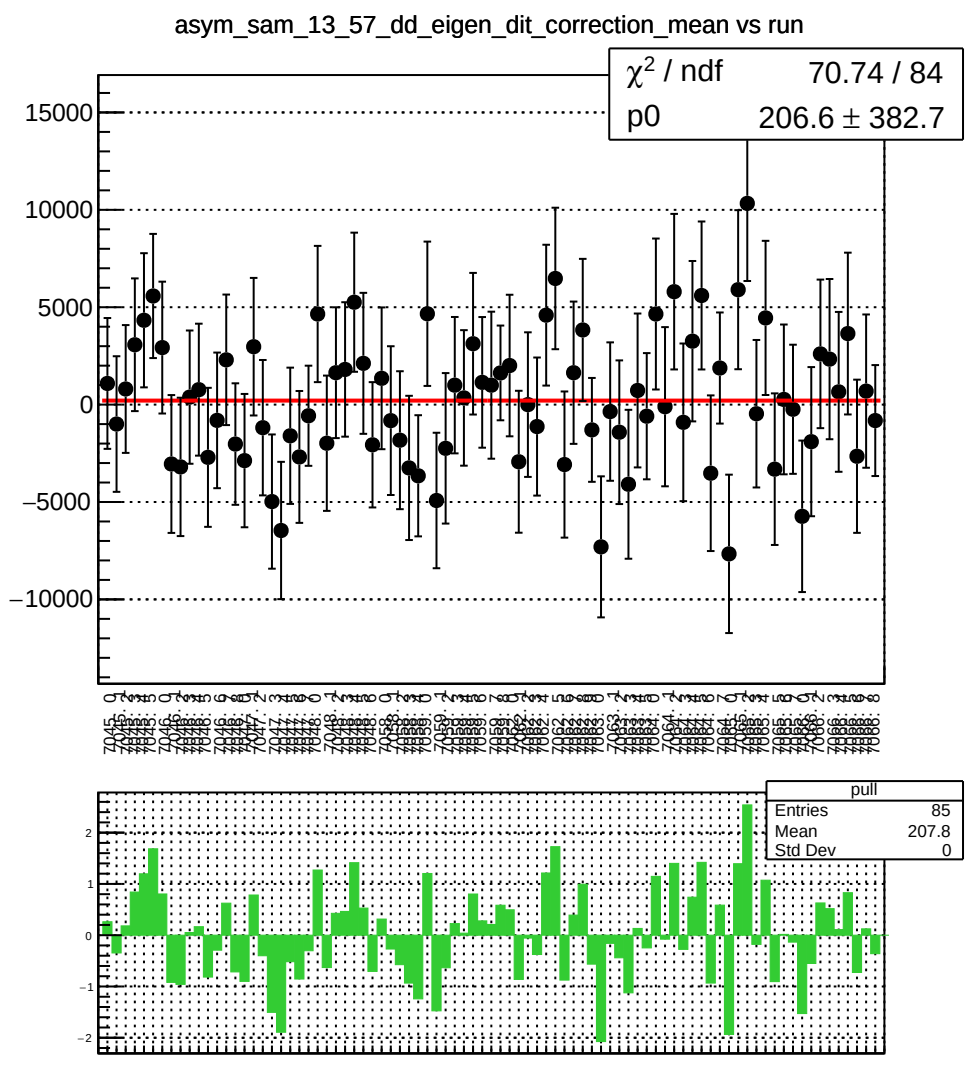

pull1D
Entries 85
Mean 0.006727
Std Dev 0.9123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

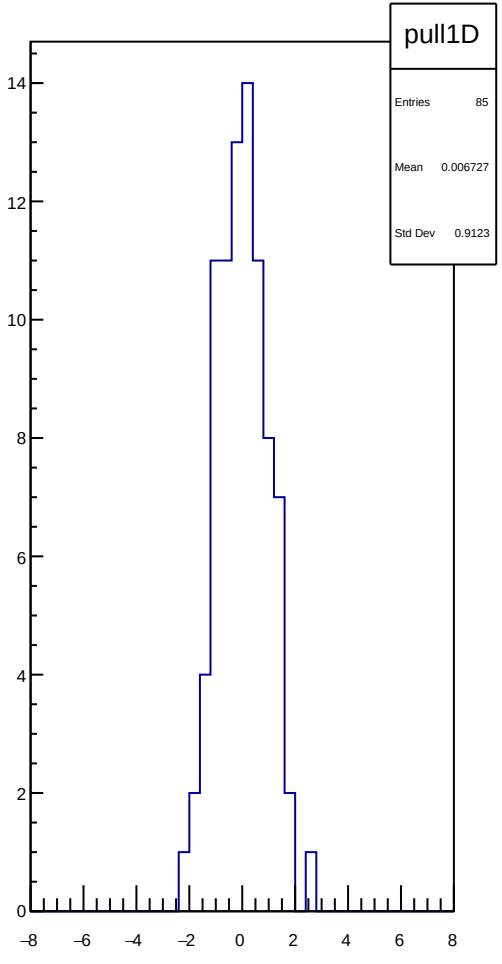

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 6280 / 84
p0 346.6 ± 0.2706
400
380
360
340
320

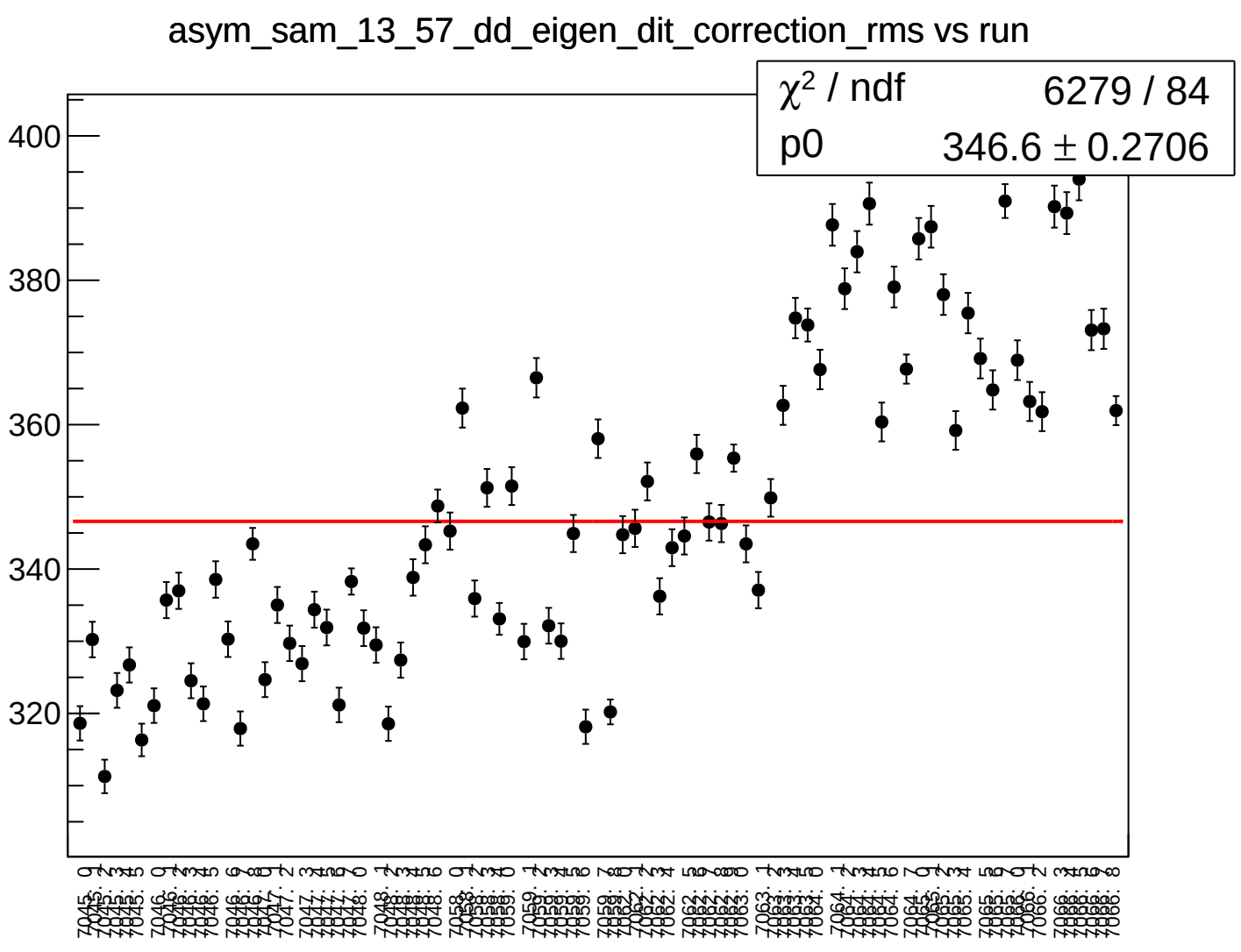

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 81.01 / 84
p0 −254 ± 67.25
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −749.6
Std Dev 0
2
1
0
−1
−2

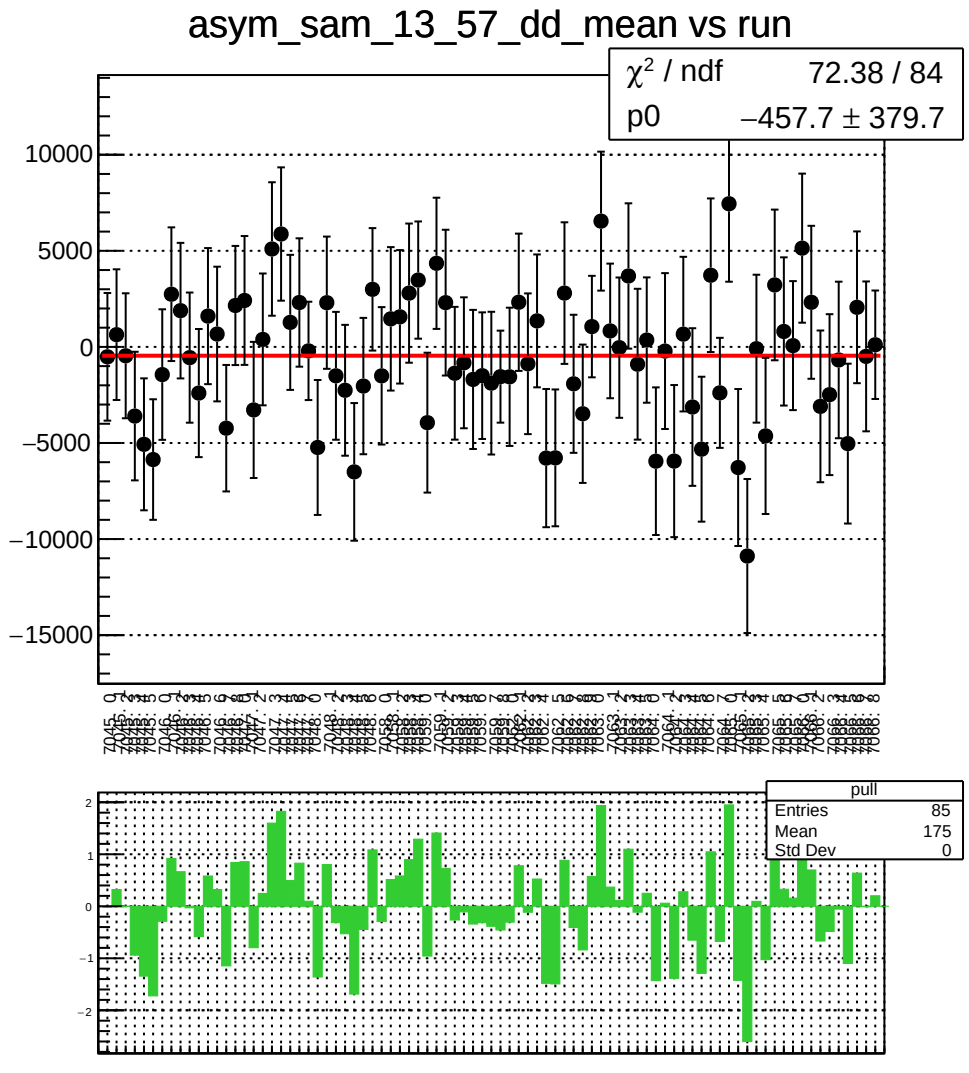

pull1D
Entries 85
Mean −0.0008736
Std Dev 0.9762
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

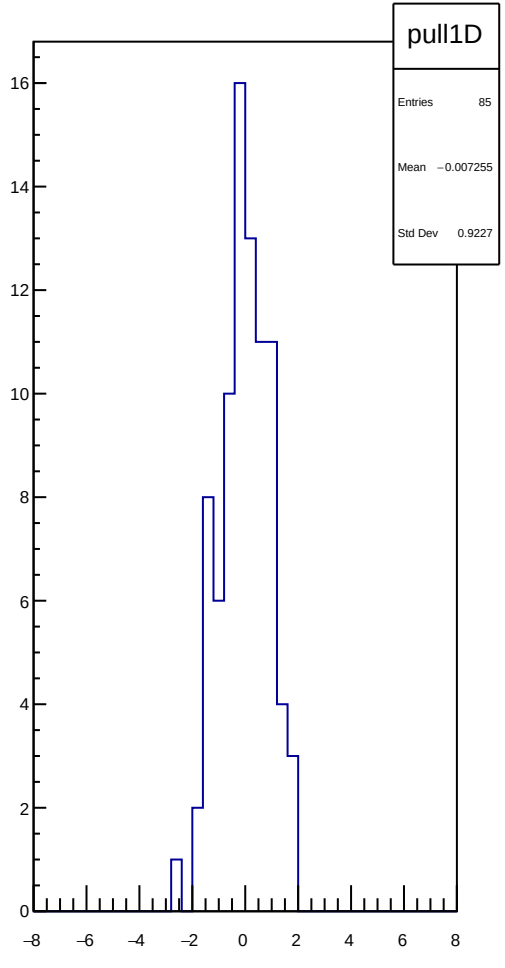

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3183 / 84
p0 60.97 ± 0.04755
68
66
64
62
60
58
56

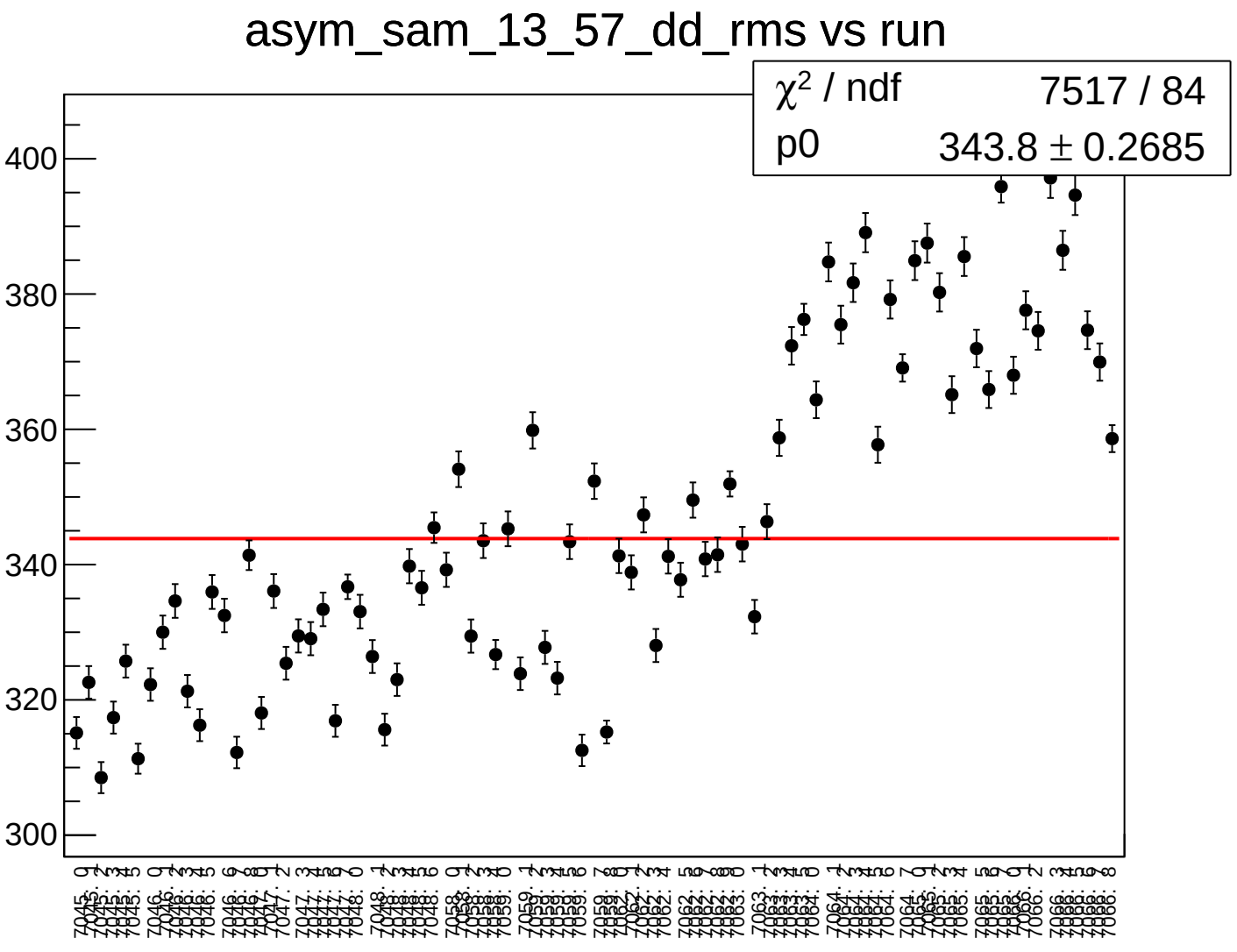

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.74 / 84
p0 206.6 ± 382.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 207.8
Std Dev 0
2
1
0
−1
−2

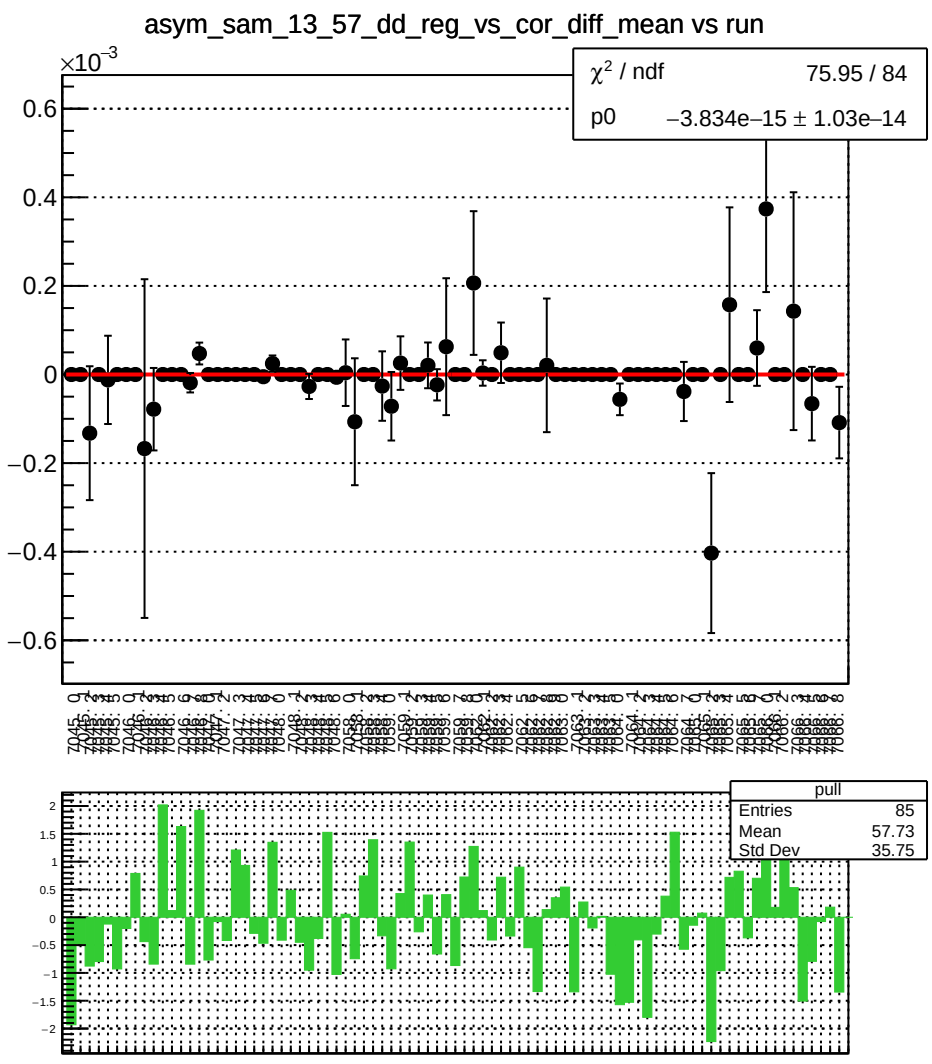

pull1D
Entries 85
Mean 0.006727
Std Dev 0.9123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

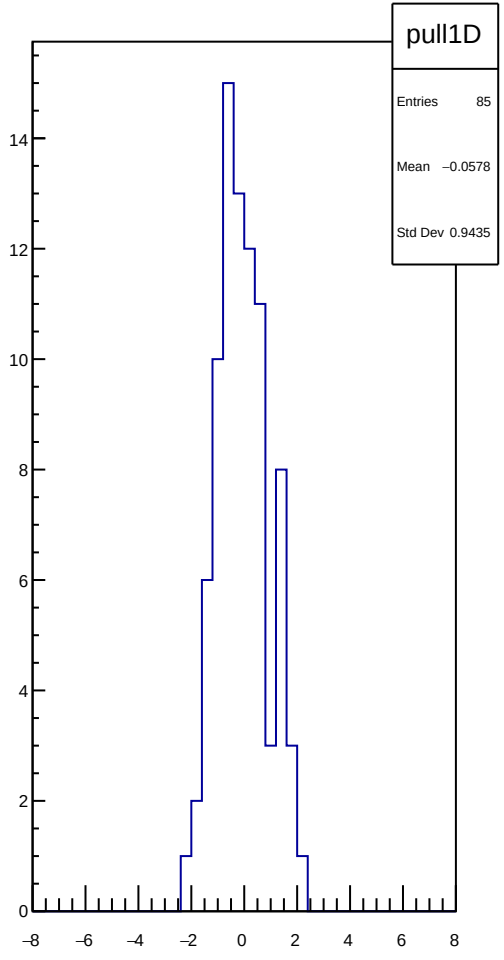

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 6279 / 84
p0 346.6 ± 0.2706
400
380
360
340
320

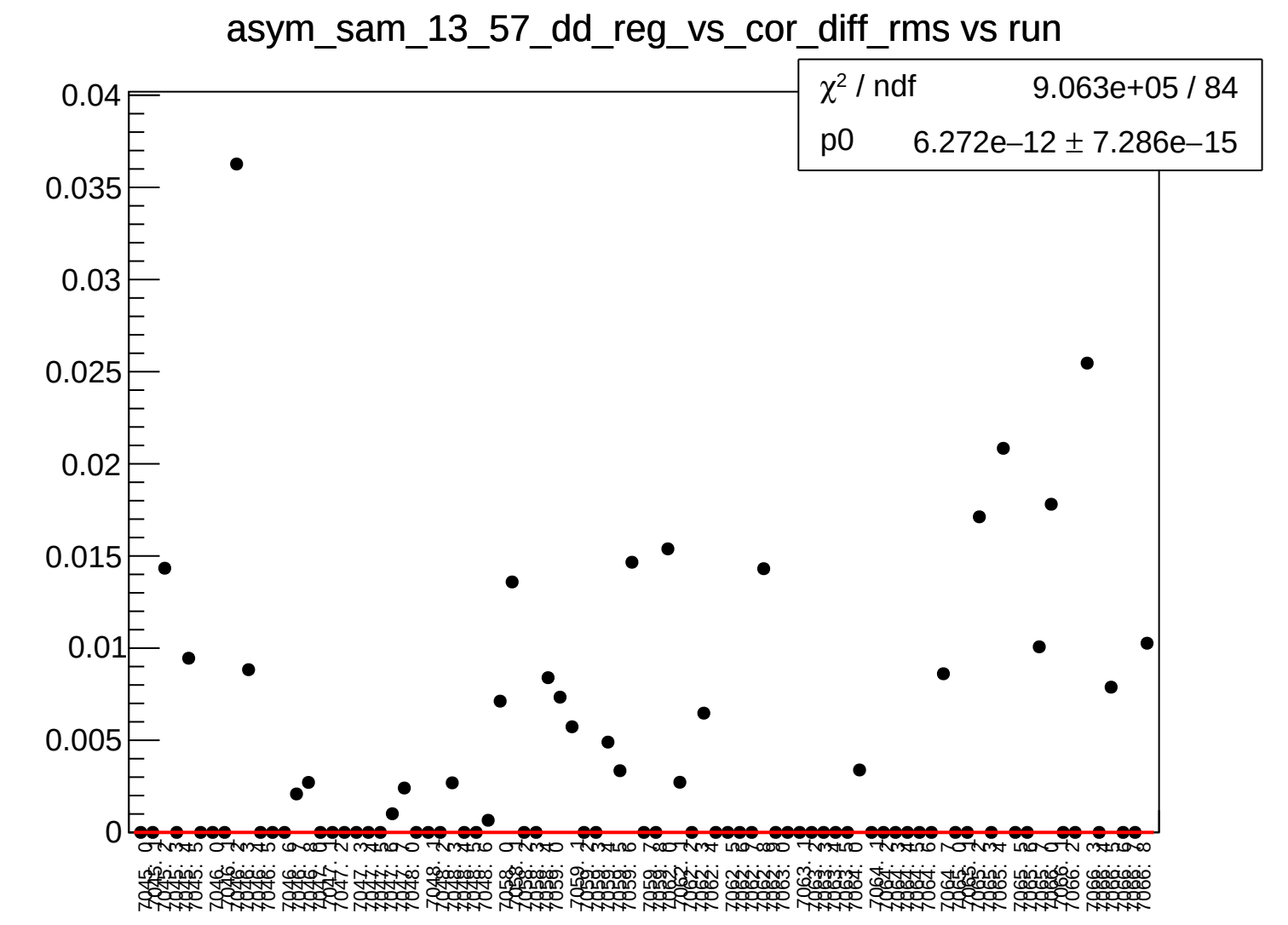

asym_sam_13_57_dd_mean vs run
χ² / ndf 72.38 / 84
p0 −457.7 ± 379.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 175
Std Dev 0
2
1
0
−1
−2

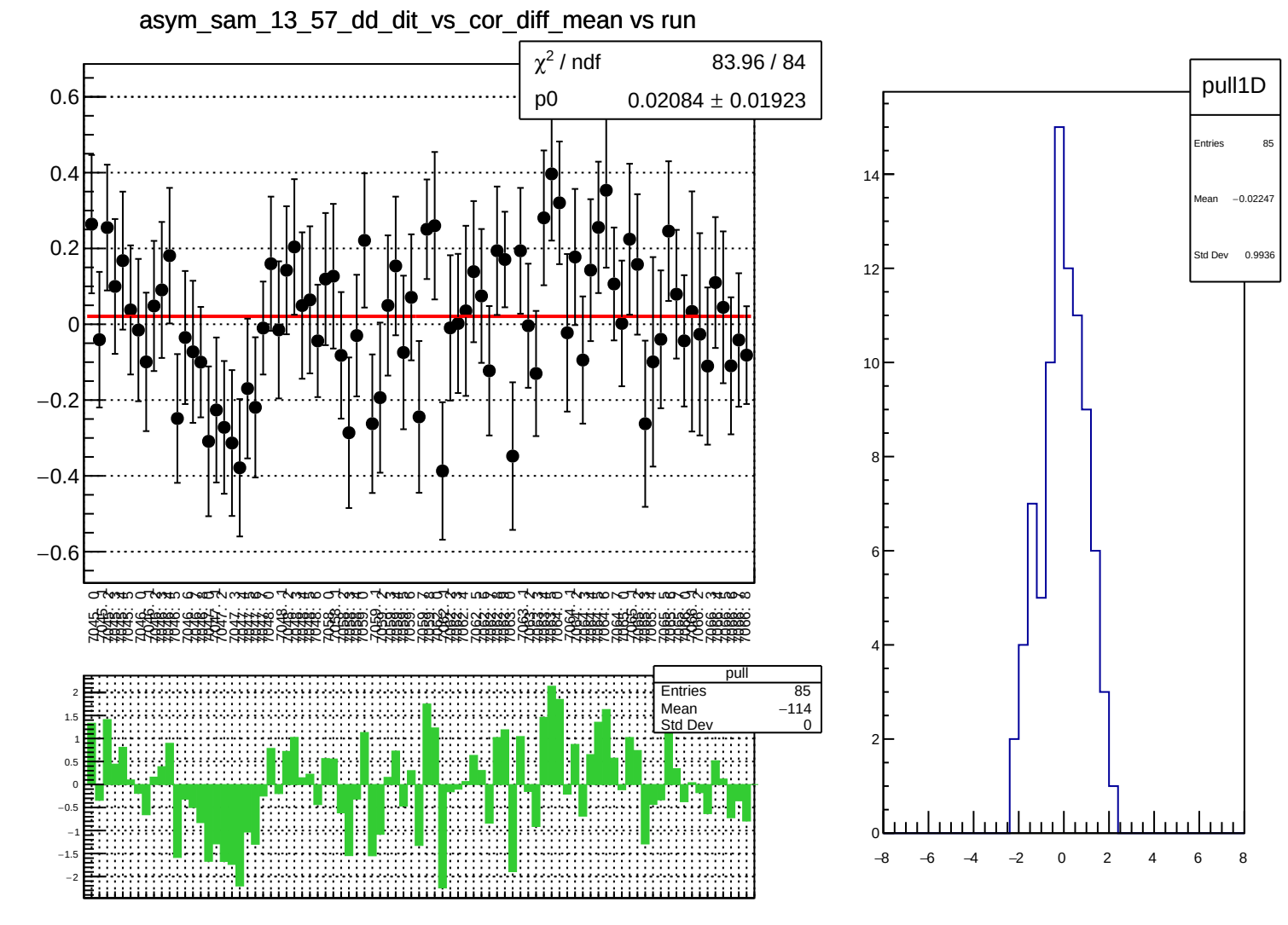

pull1D
Entries 85
Mean −0.007255
Std Dev 0.9227
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

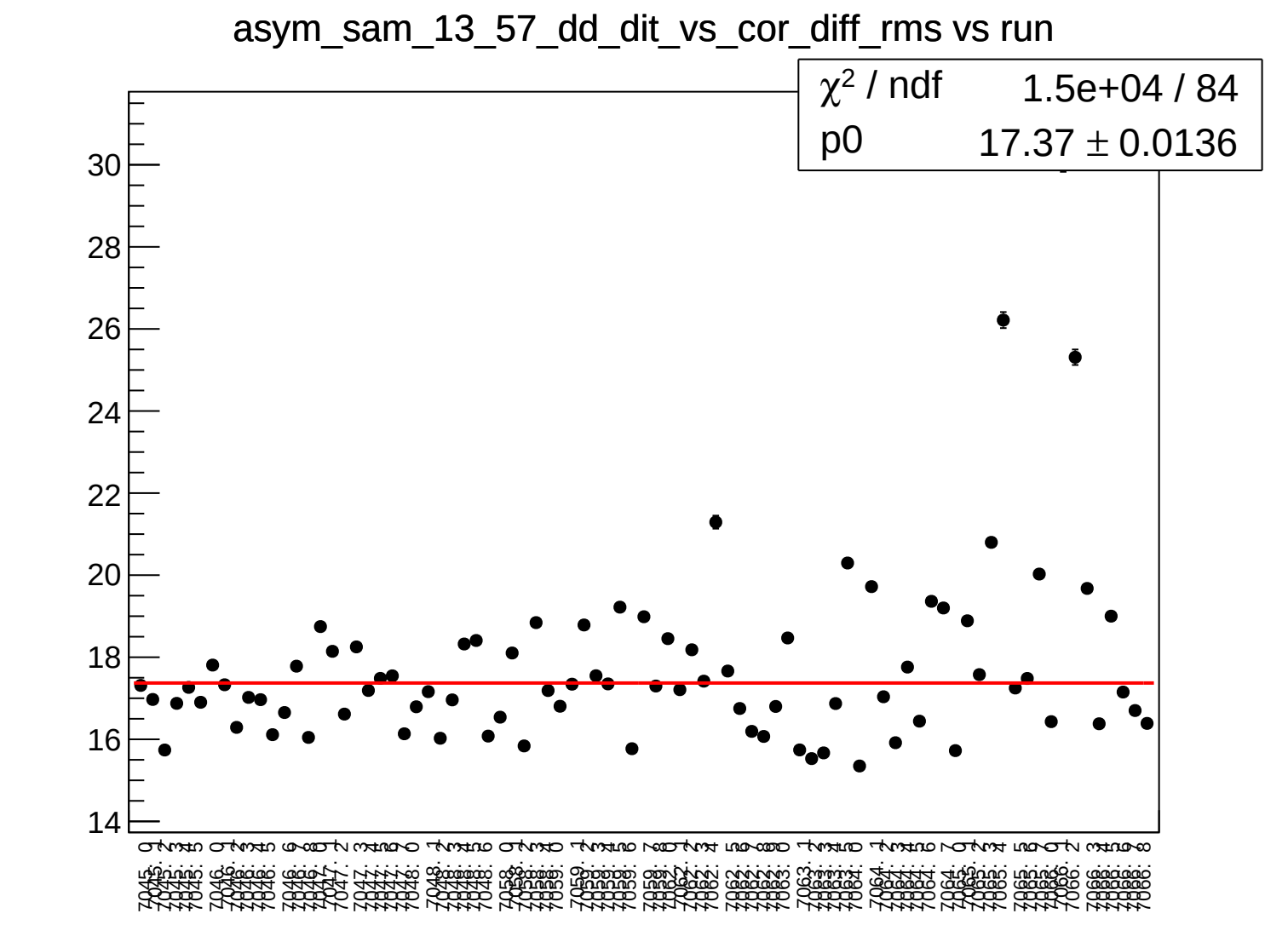

asym_sam_13_57_dd_rms vs run
χ² / ndf 7517 / 84
p0 343.8 ± 0.2685
400
380
360
340
320
300

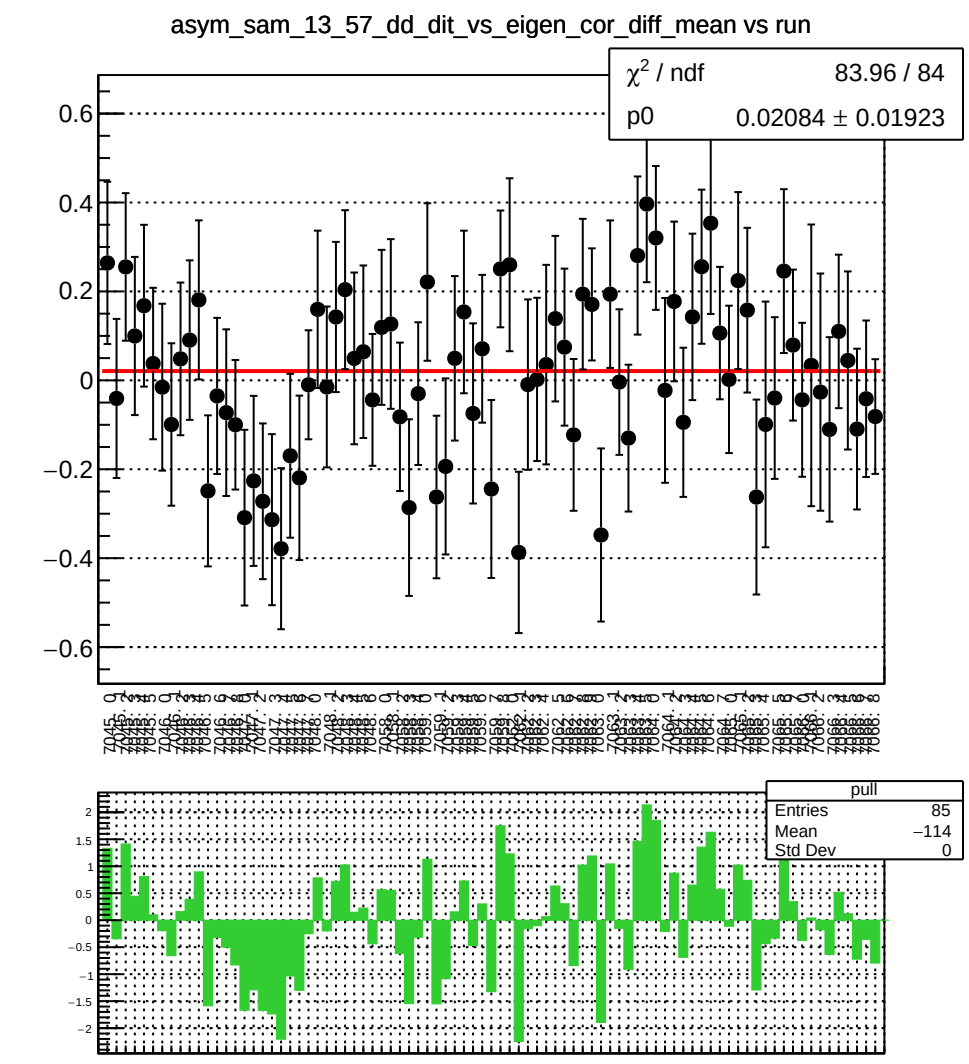

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 75.95 / 84
p0 −3.834e−15 ± 1.03e−14
pull
Entries 85
Mean 57.73
Std Dev 35.75

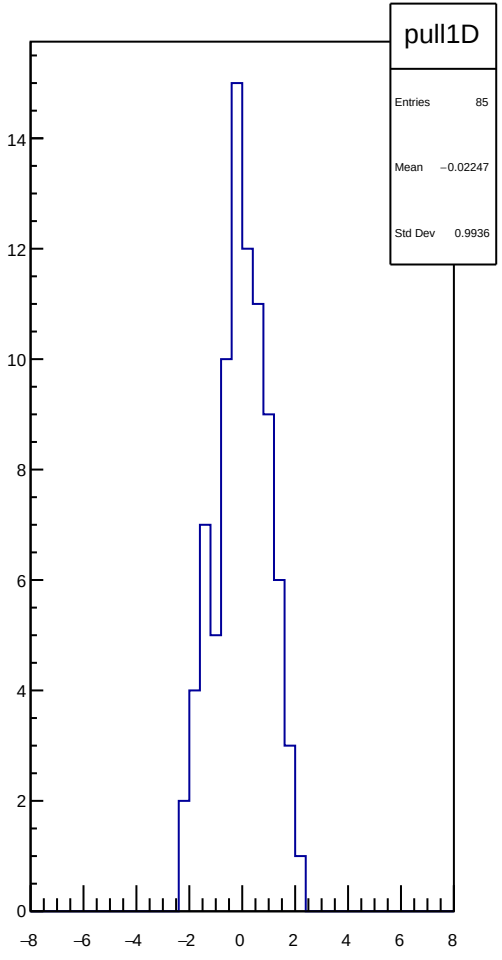

pull1D
Entries 85
Mean −0.0578
Std Dev 0.9435

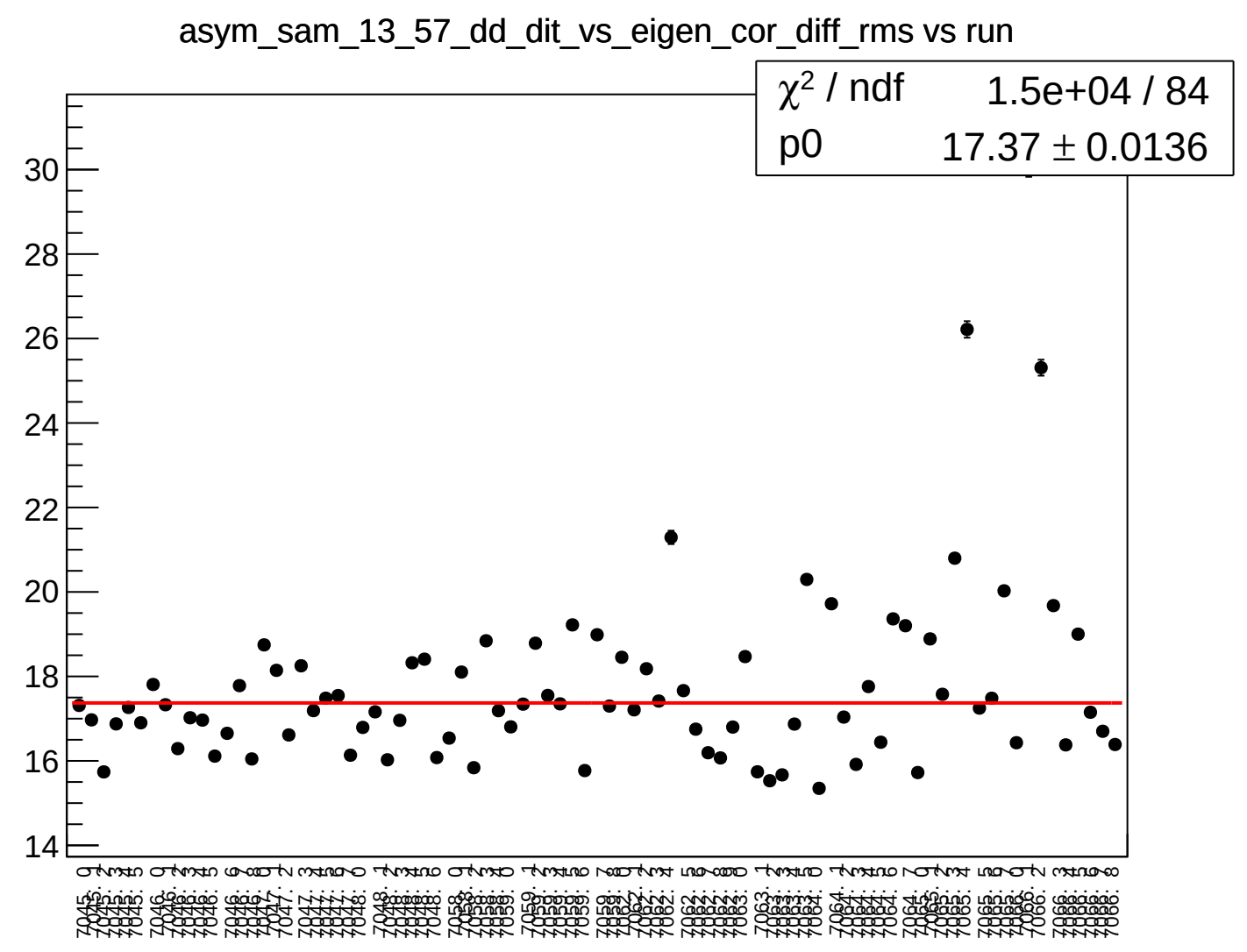

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.063e+05 / 84
p0 6.272e−12 ± 7.286e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

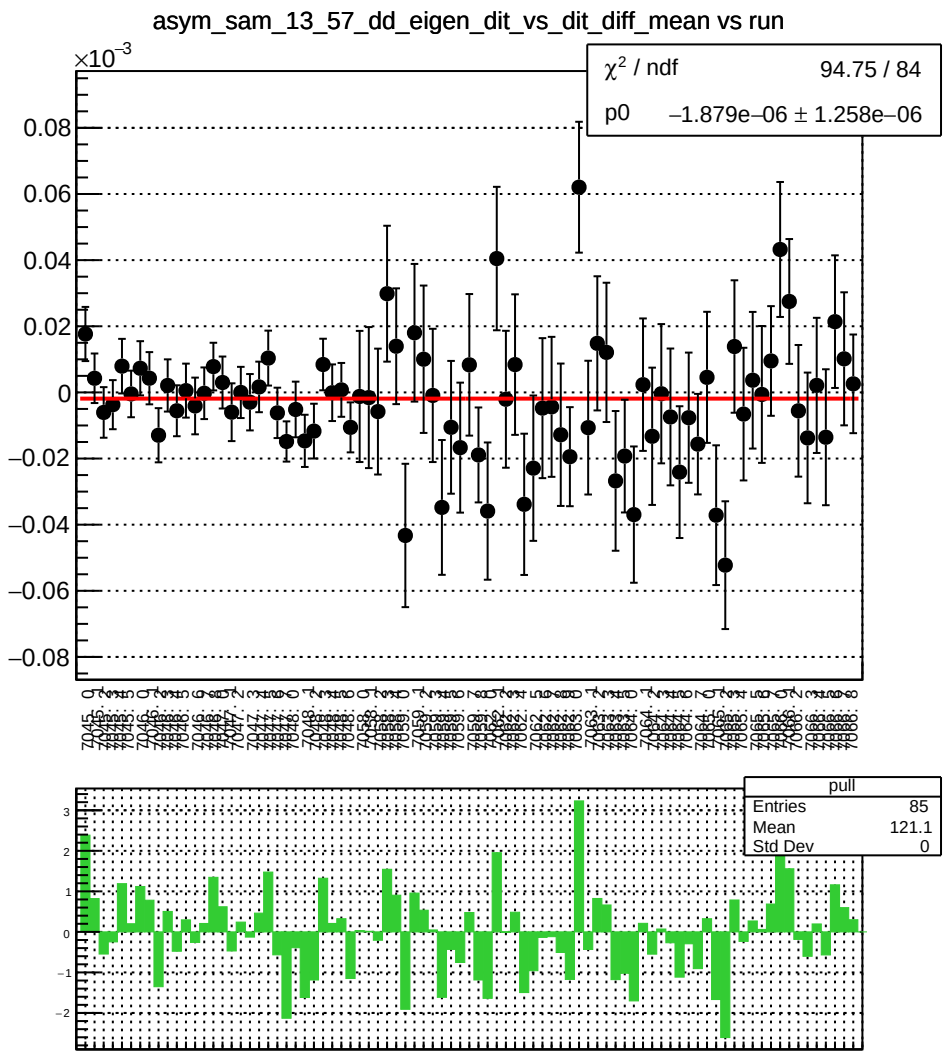

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.96 / 84
p0 0.02084 ± 0.01923
pull
Entries 85
Mean −114
Std Dev 0
pull1D
Entries 85
Mean −0.02247
Std Dev 0.9936

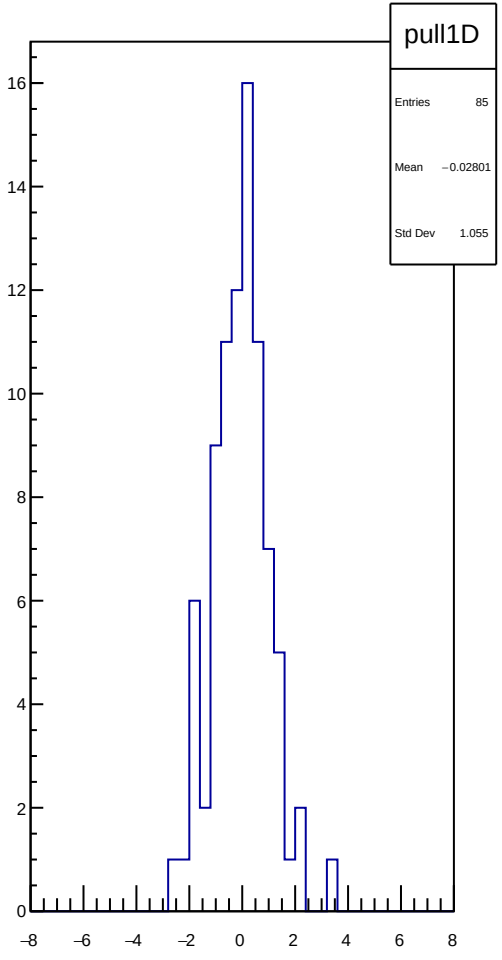

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.5e+04 / 84
p0 17.37 ± 0.0136
30
28
26
24
22
20
18
16
14

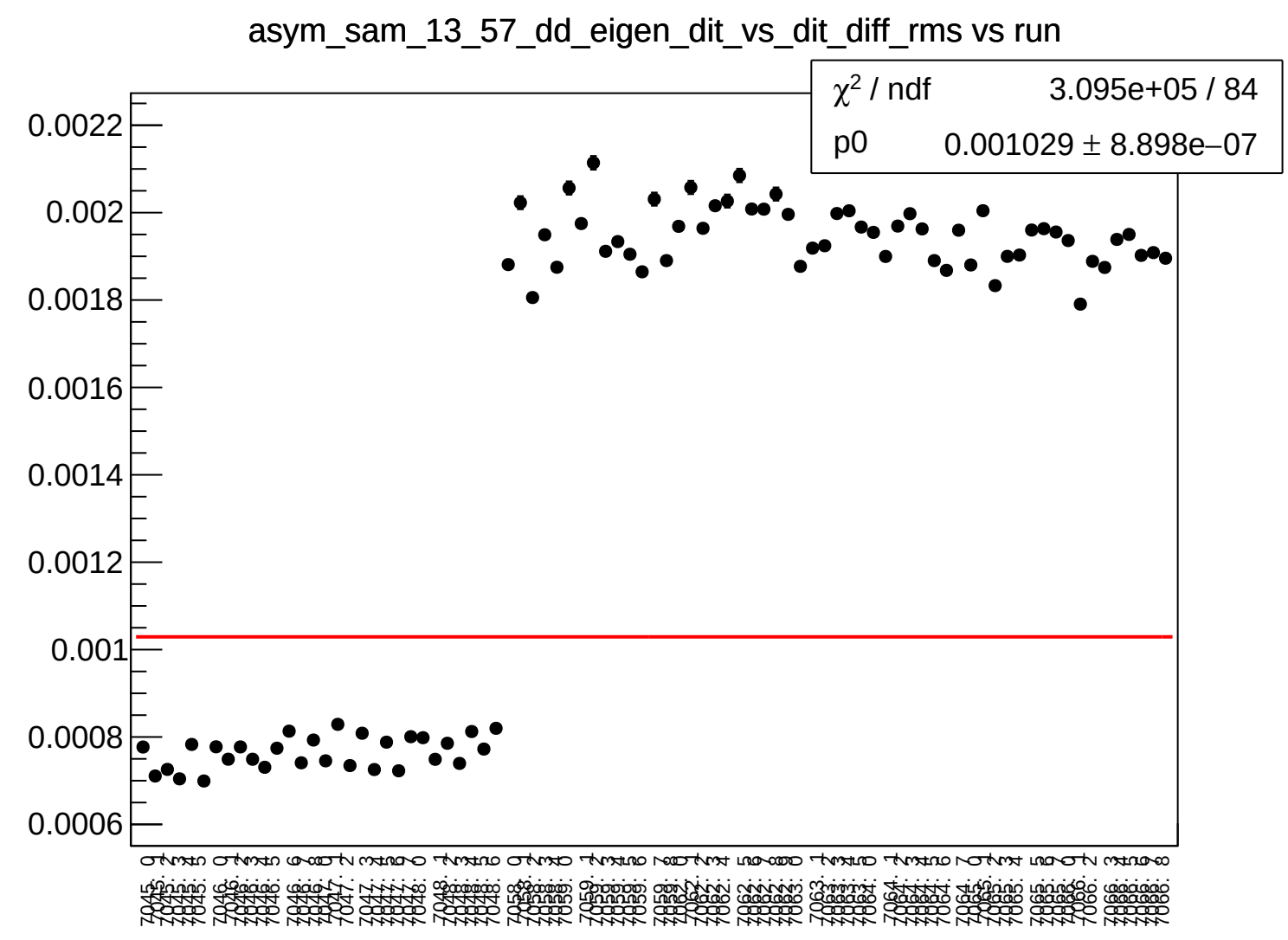

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.96 / 84
p0 0.02084 ± 0.01923
pull
Entries 85
Mean −114
Std Dev 0

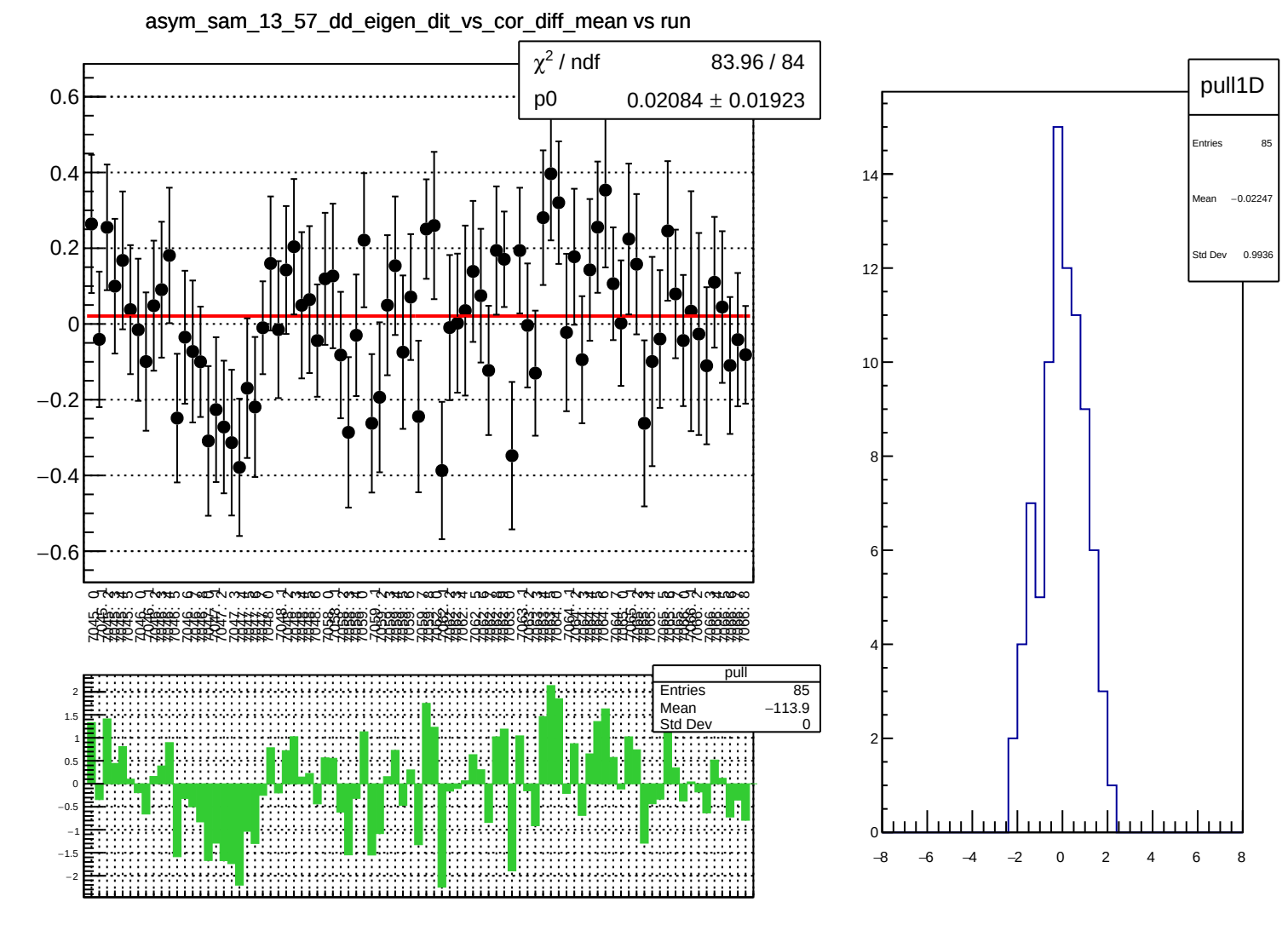

pull1D
Entries 85
Mean −0.02247
Std Dev 0.9936

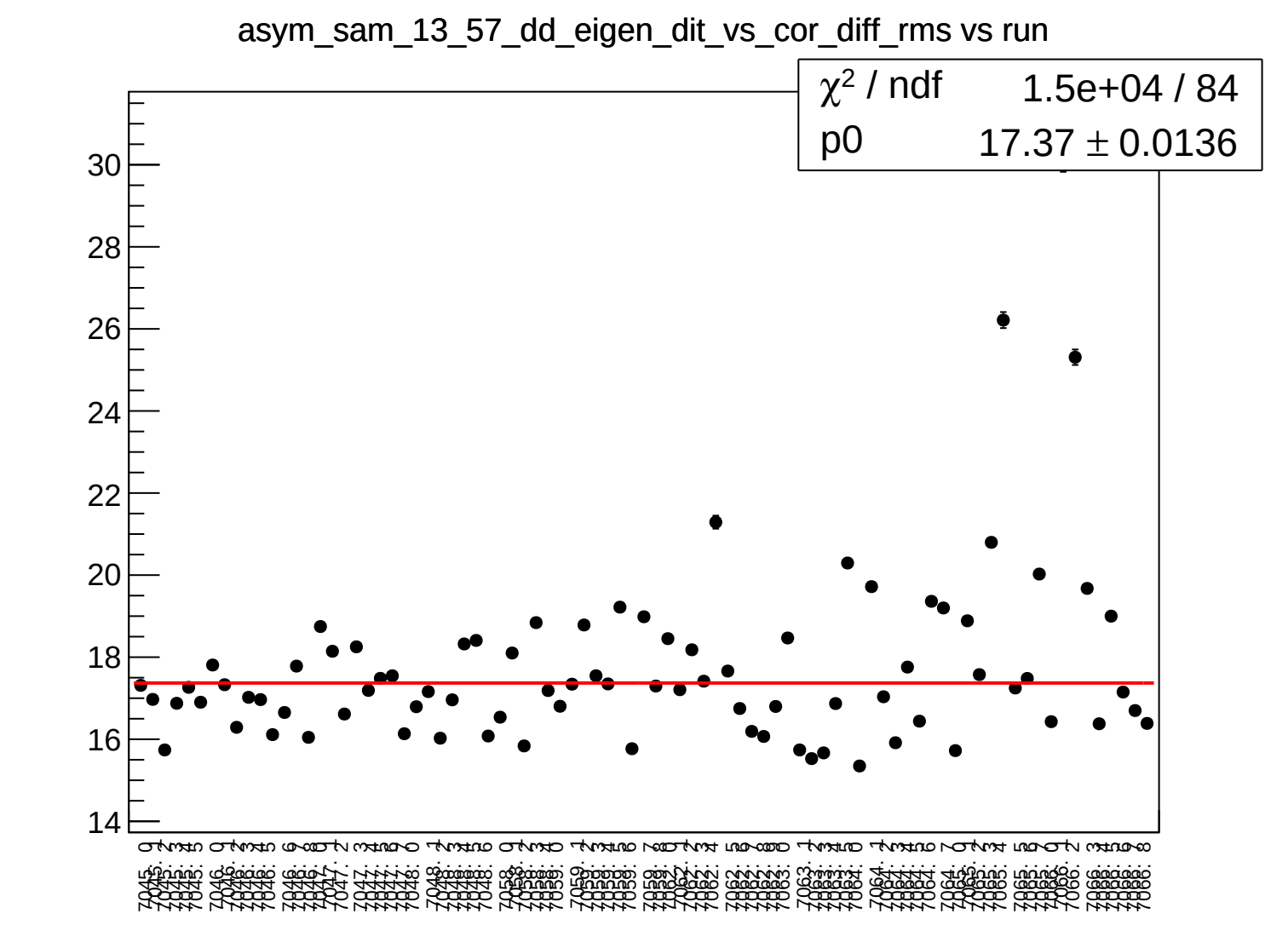

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.5e+04 / 84
p0 17.37 ± 0.0136
30
28
26
24
22
20
18
16
14

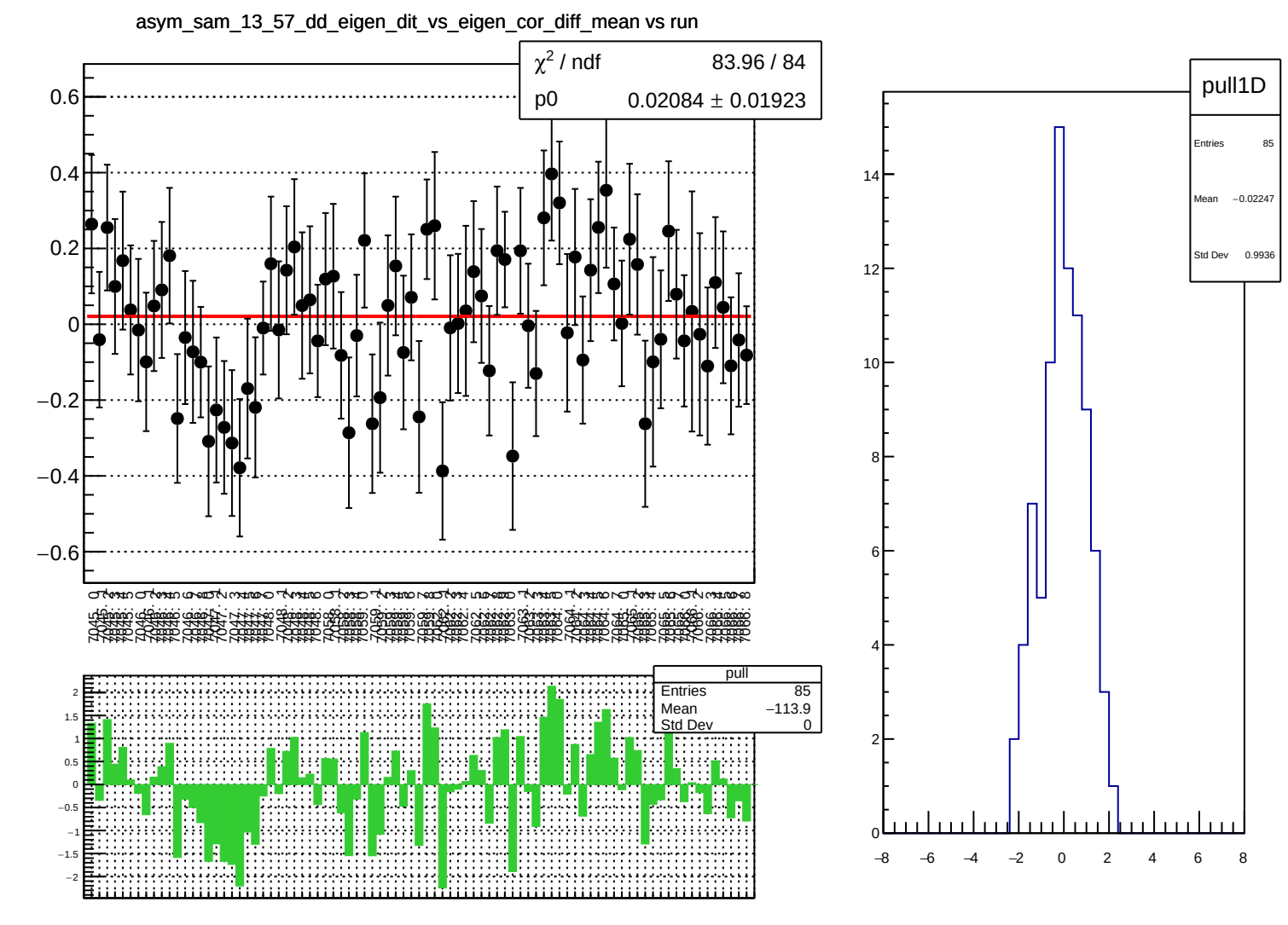

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.75 / 84
p0 −1.879e−06 ± 1.258e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 85
Mean 121.1
Std Dev 0
3
2
1
0
−1
−2

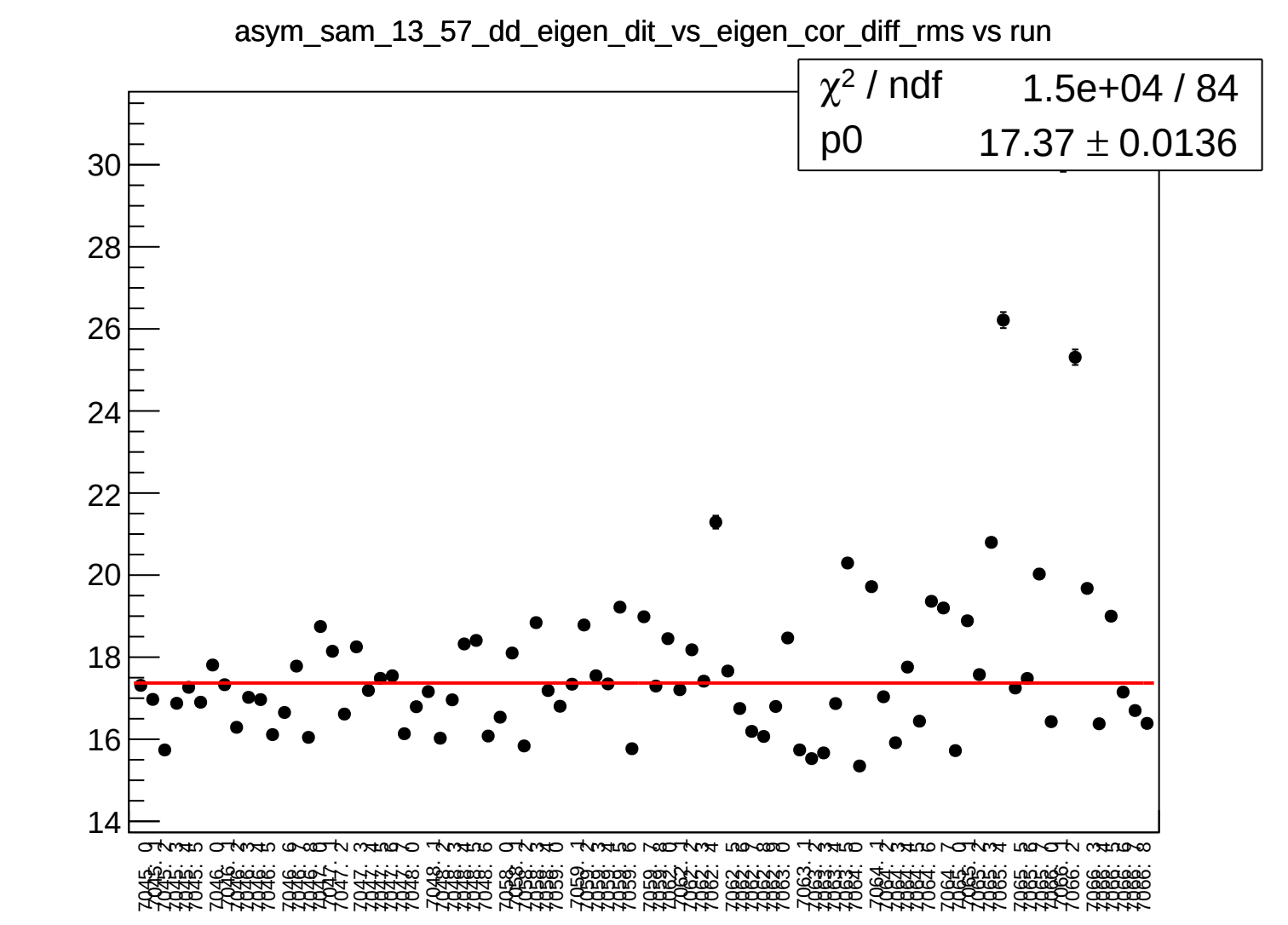

pull1D
Entries 85
Mean −0.02801
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

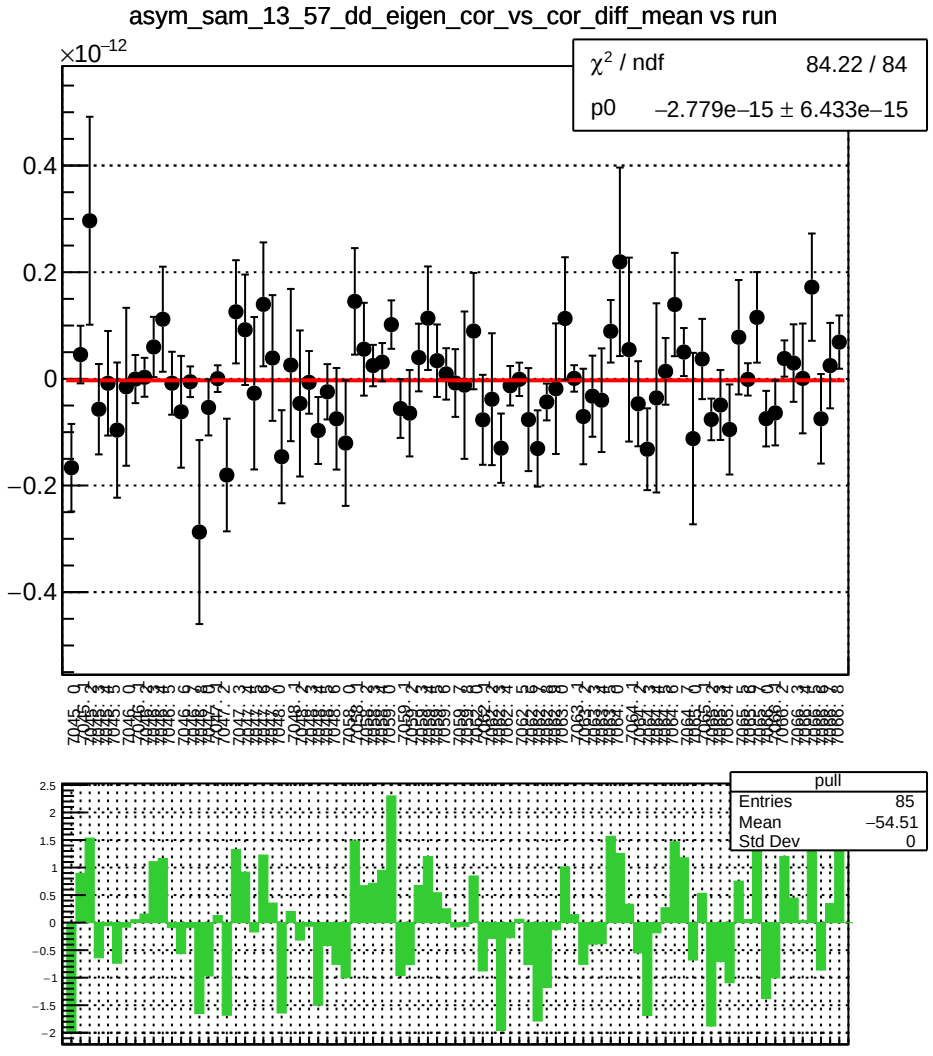

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.095e+05 / 84
p0 0.001029 ± 8.898e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

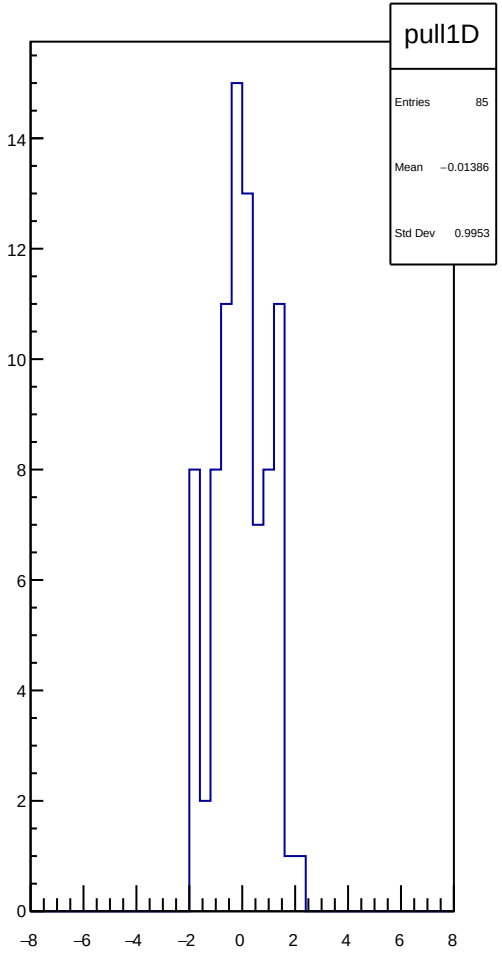

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.96 / 84
p0 0.02084 ± 0.01923
pull
Entries 85
Mean −113.9
Std Dev 0
pull1D
Entries 85
Mean −0.02247
Std Dev 0.9936

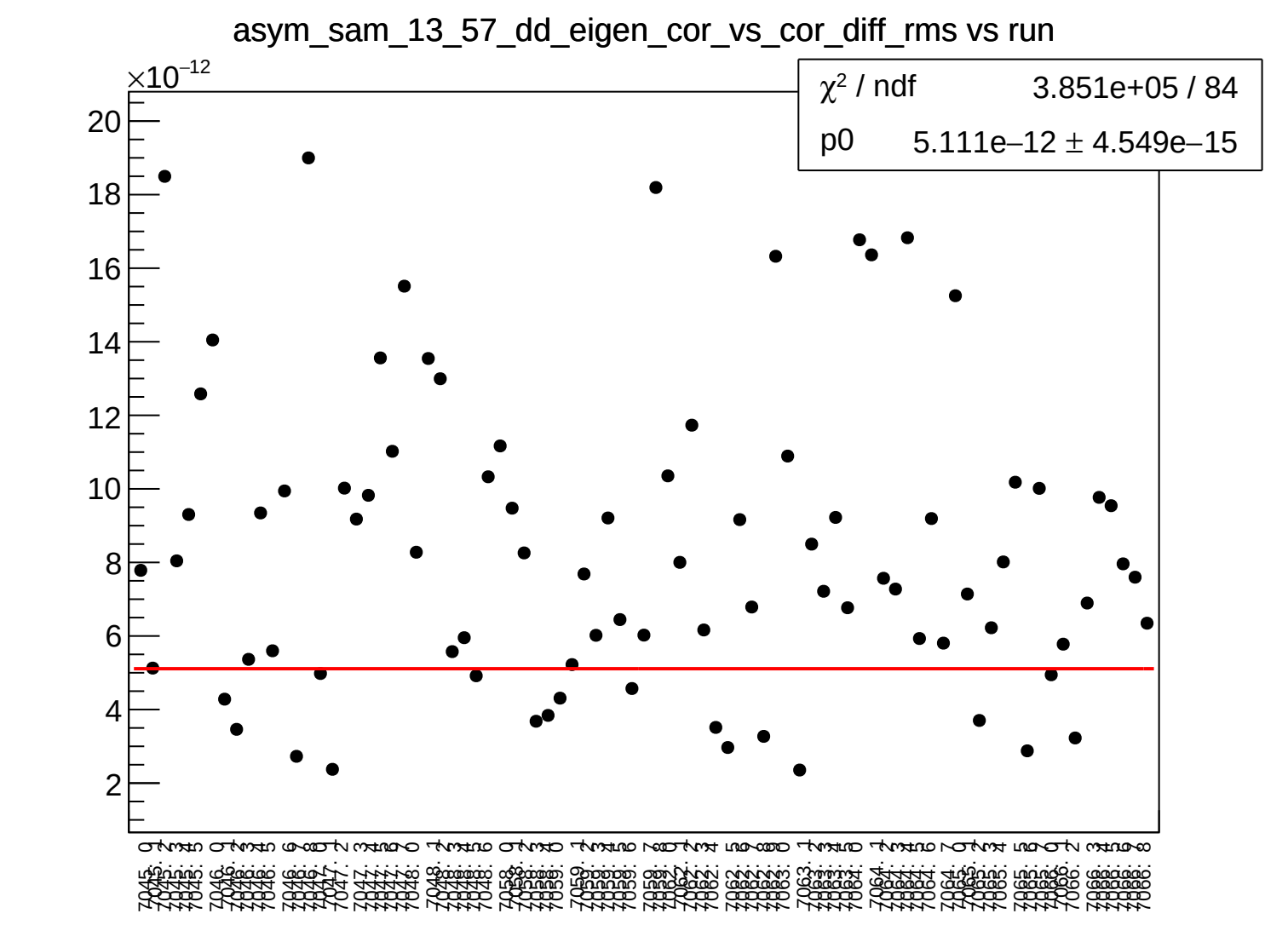

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.5e+04 / 84
p0 17.37 ± 0.0136
30
28
26
24
22
20
18
16
14

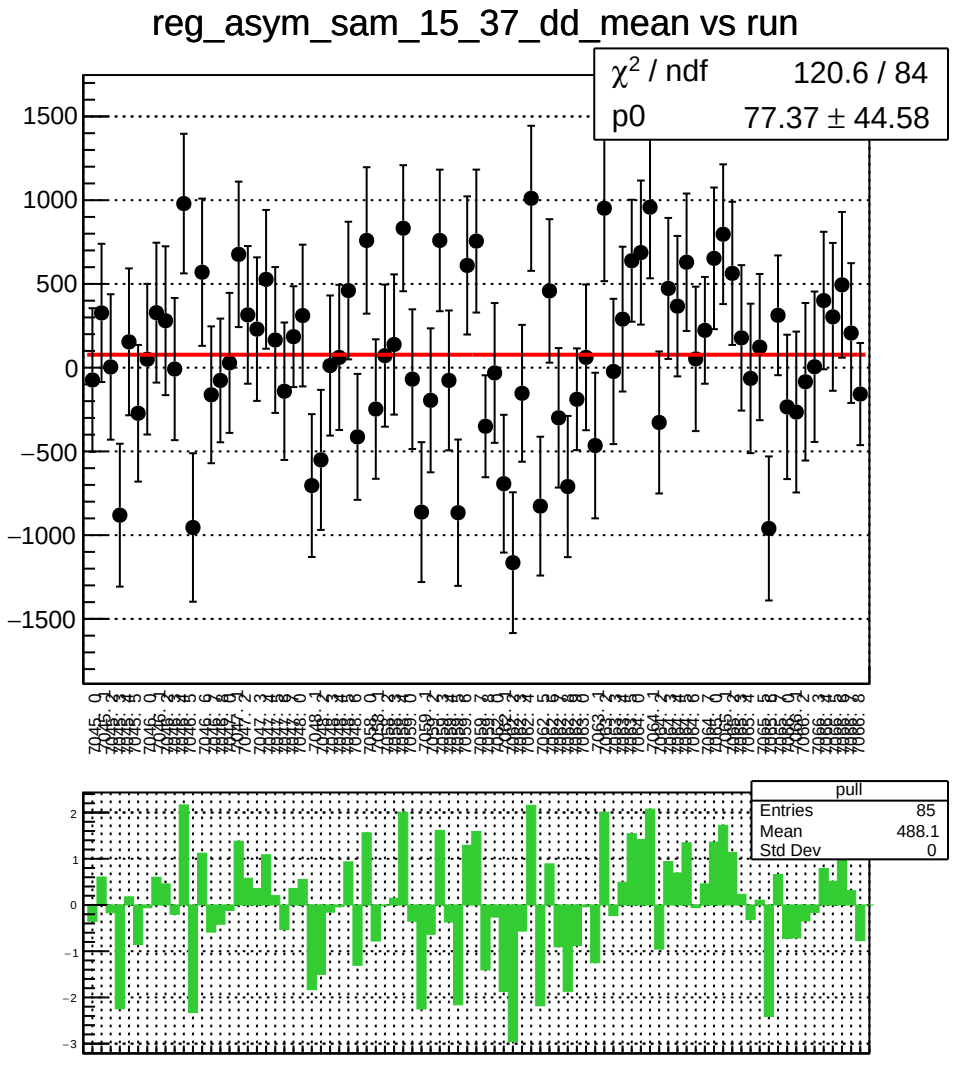

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.96 / 84
p0 0.02084 ± 0.01923
pull
Entries 85
Mean −113.9
Std Dev 0
pull1D
Entries 85
Mean −0.02247
Std Dev 0.9936

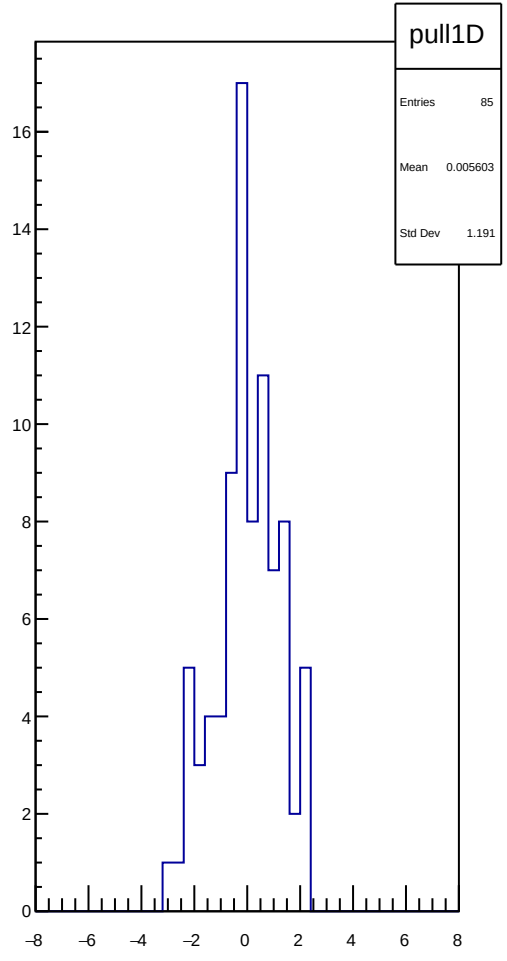

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.5e+04 / 84
p0 17.37 ± 0.0136
30
28
26
24
22
20
18
16
14

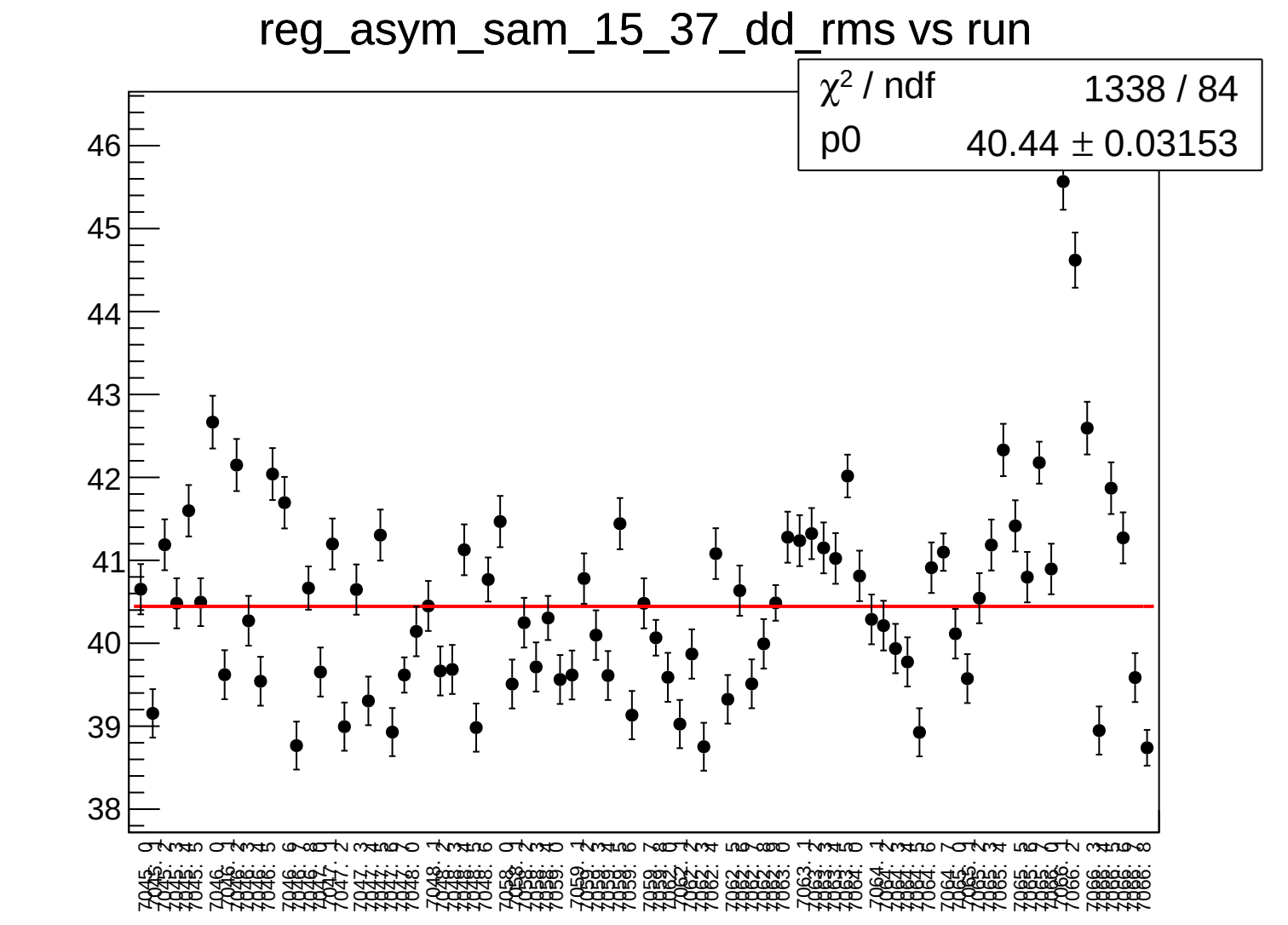

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.22 / 84
p0 −2.779e−15 ± 6.433e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean −54.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

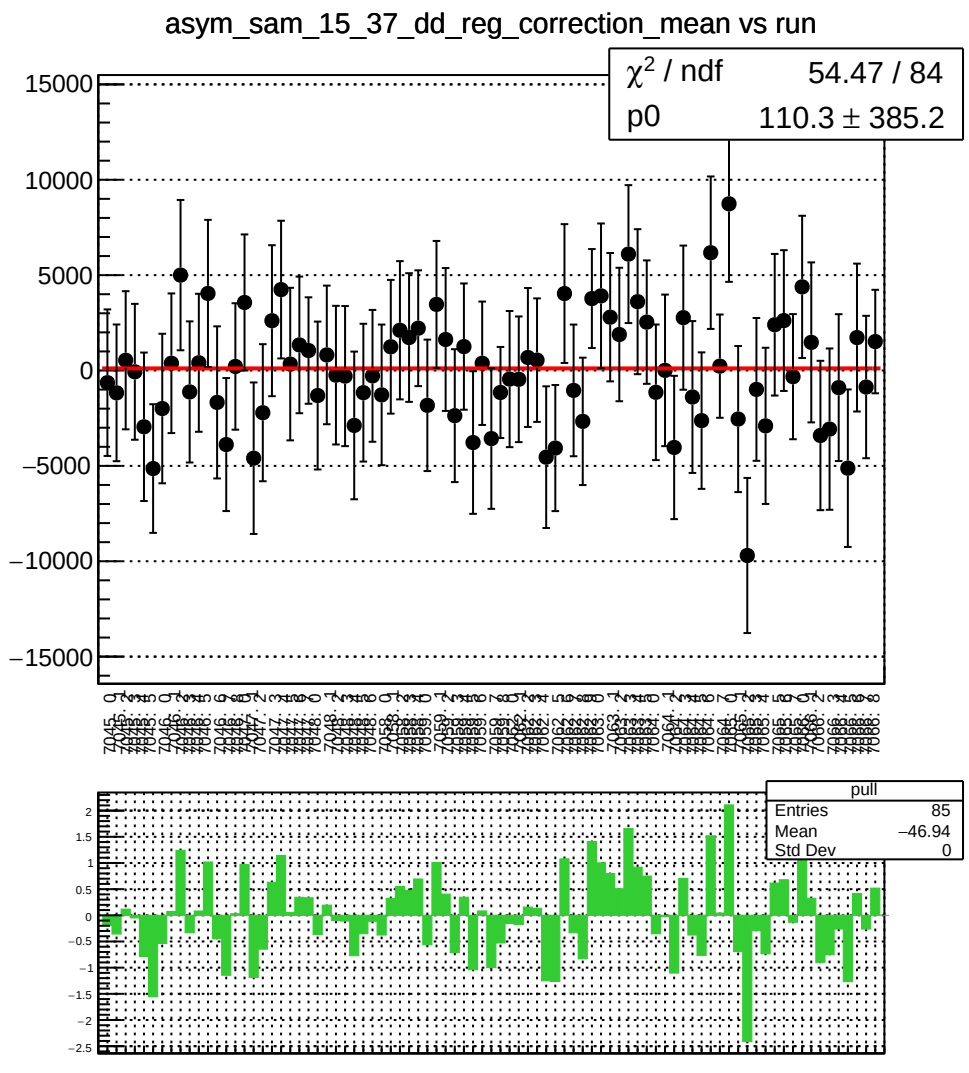

pull1D
Entries 85
Mean −0.01386
Std Dev 0.9953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

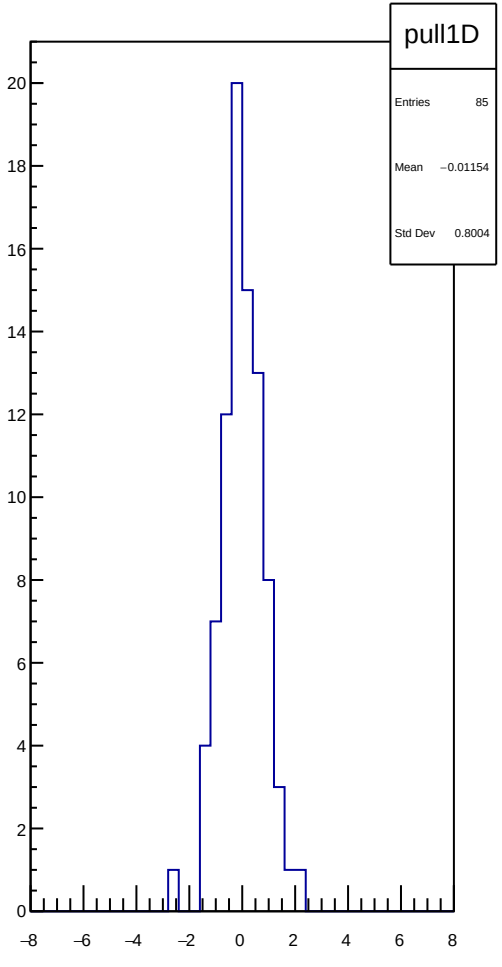

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.851e+05 / 84
p0 5.111e−12 ± 4.549e−15
20
18
16
14
12
10
8
6
4
2

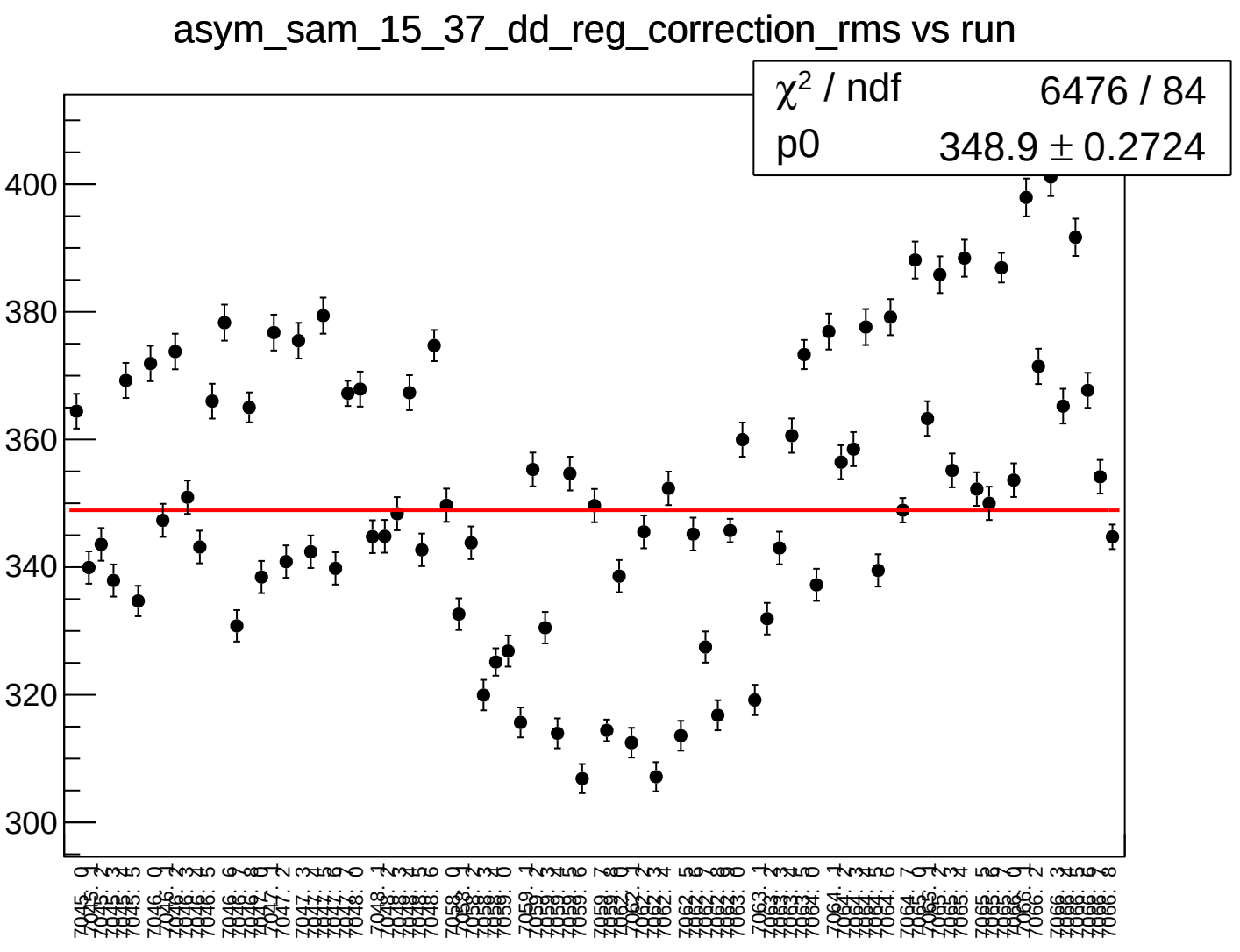

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 120.6 / 84
p0 77.37 ± 44.58
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 488.1
Std Dev 0
2
1
0
−1
−2
−3

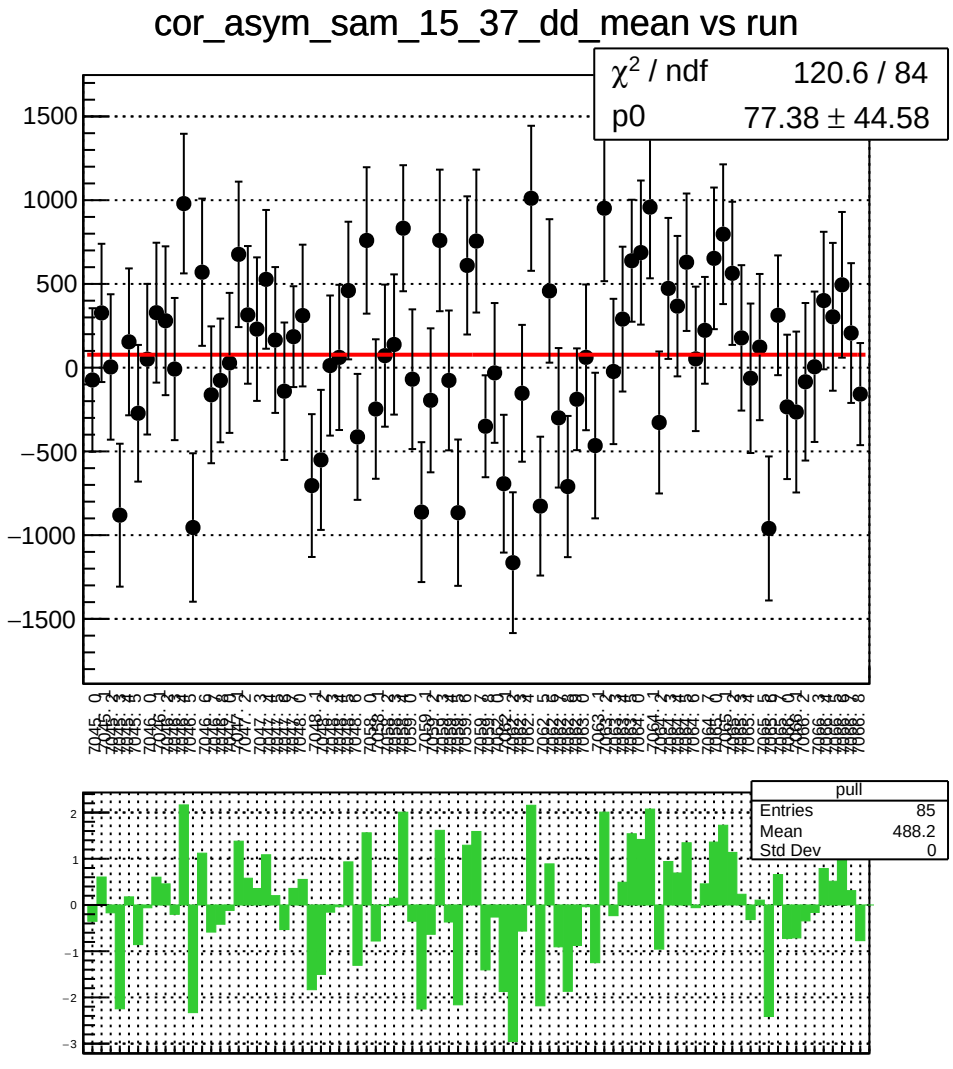

pull1D
Entries 85
Mean 0.005603
Std Dev 1.191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

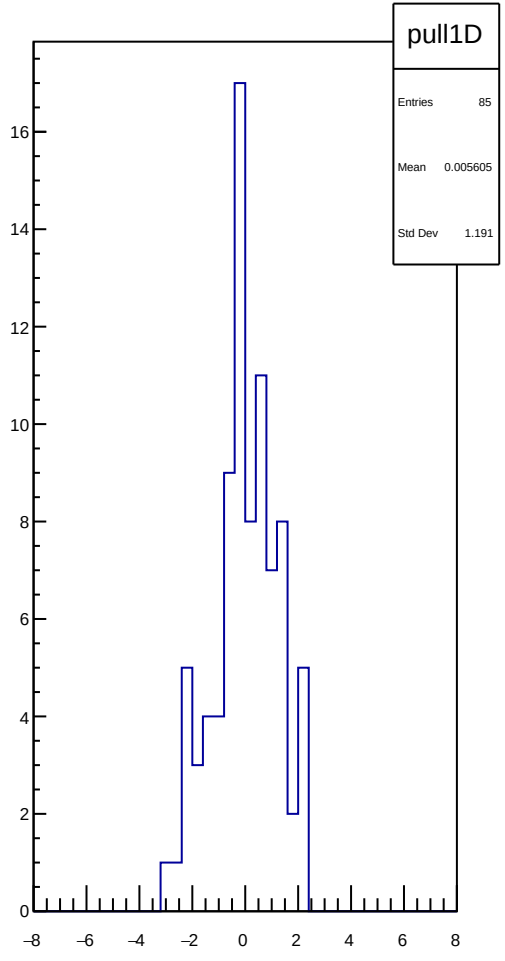

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1338 / 84
p0 40.44 ± 0.03153
46
45
44
43
42
41
40
39
38

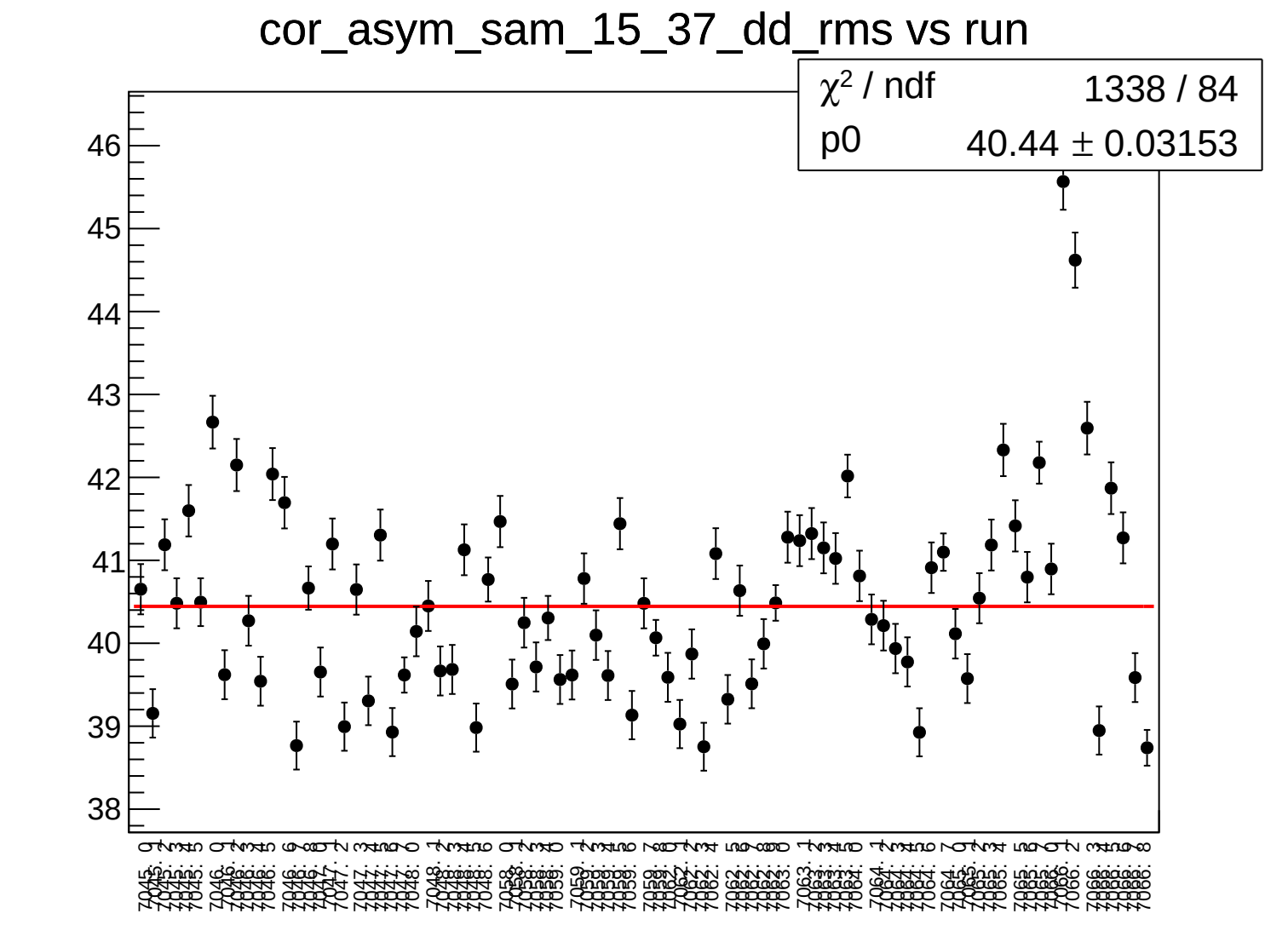

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 54.47 / 84
p0 110.3 ± 385.2
pull
Entries 85
Mean −46.94
Std Dev 0

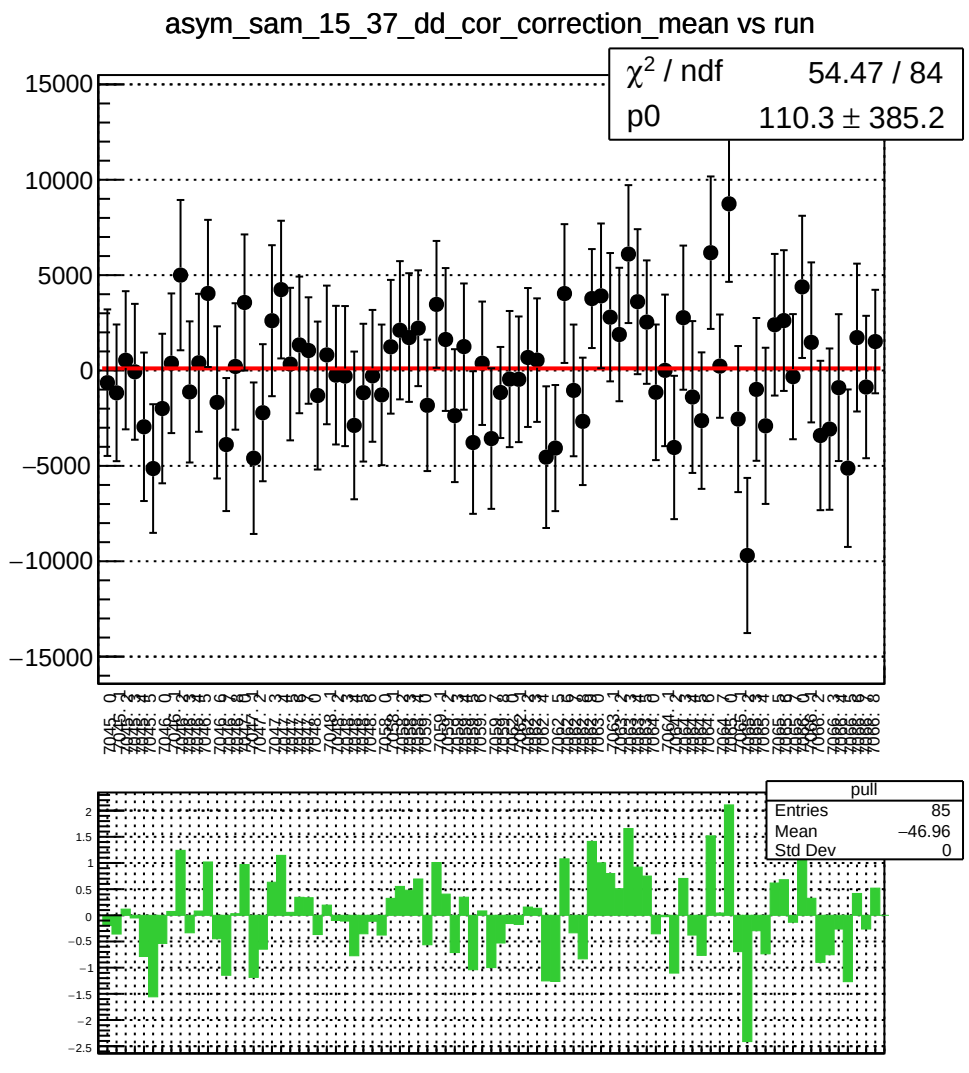

pull1D
Entries 85
Mean −0.01154
Std Dev 0.8004

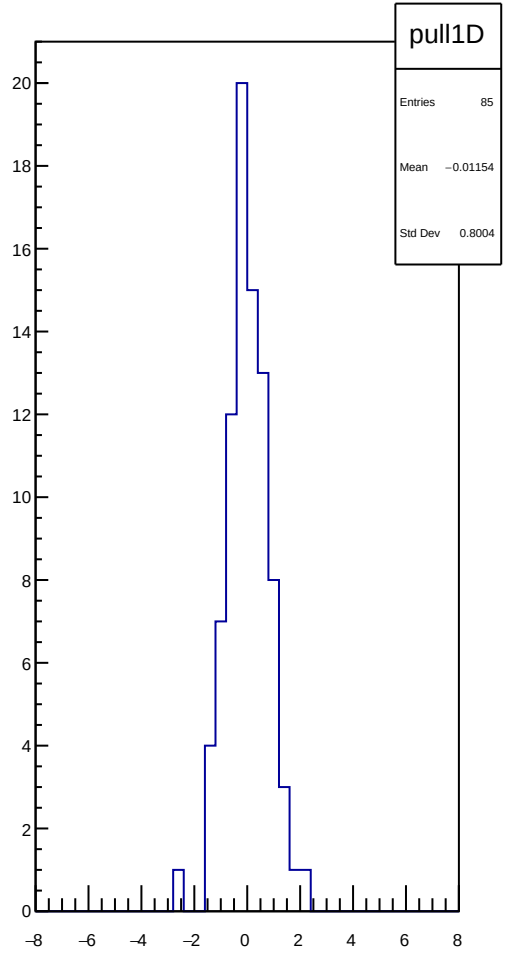

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 6476 / 84
p0 348.9 ± 0.2724
400
380
360
340
320
300

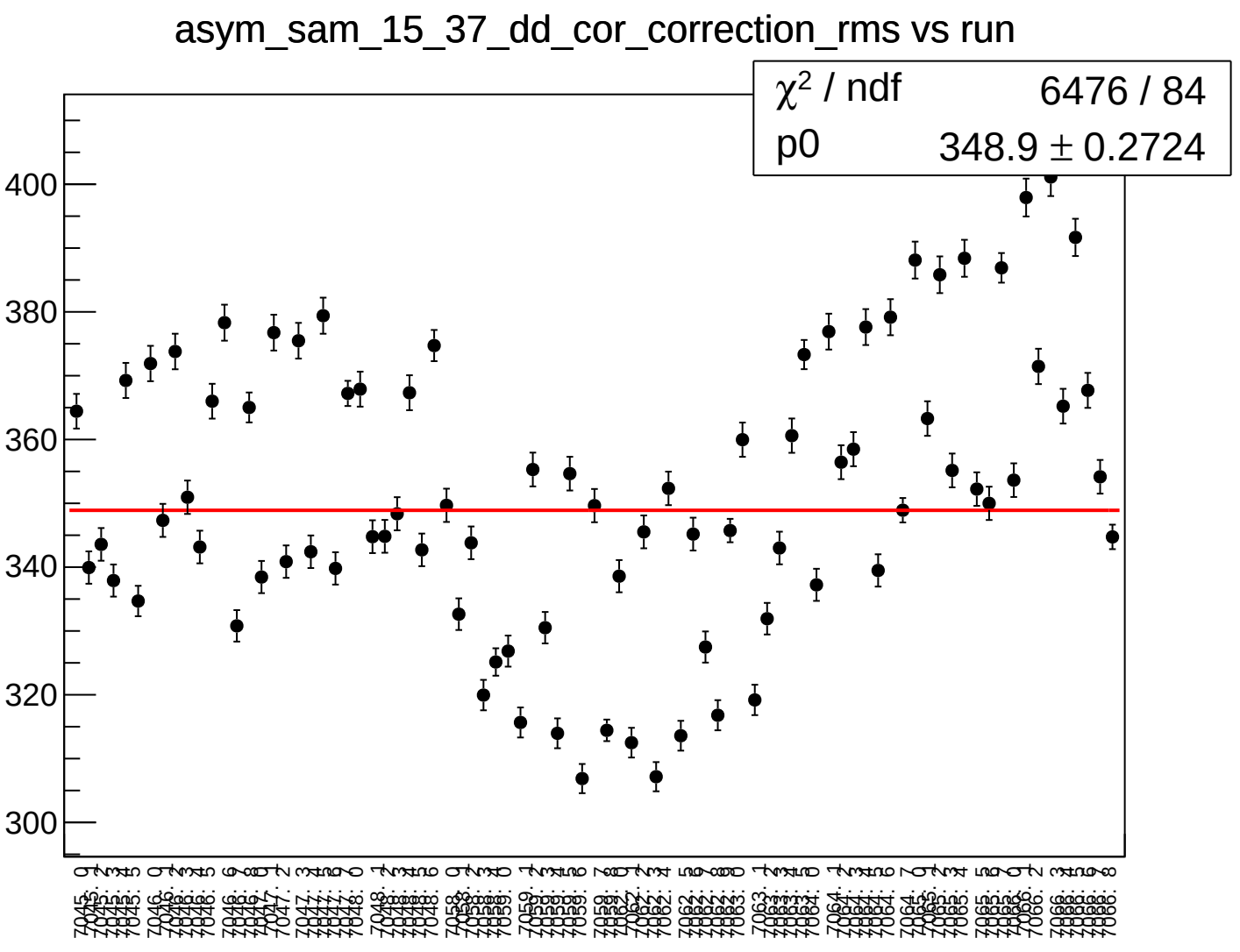

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 120.6 / 84
p0 77.38 ± 44.58
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 488.2
Std Dev 0
2
1
0
−1
−2
−3

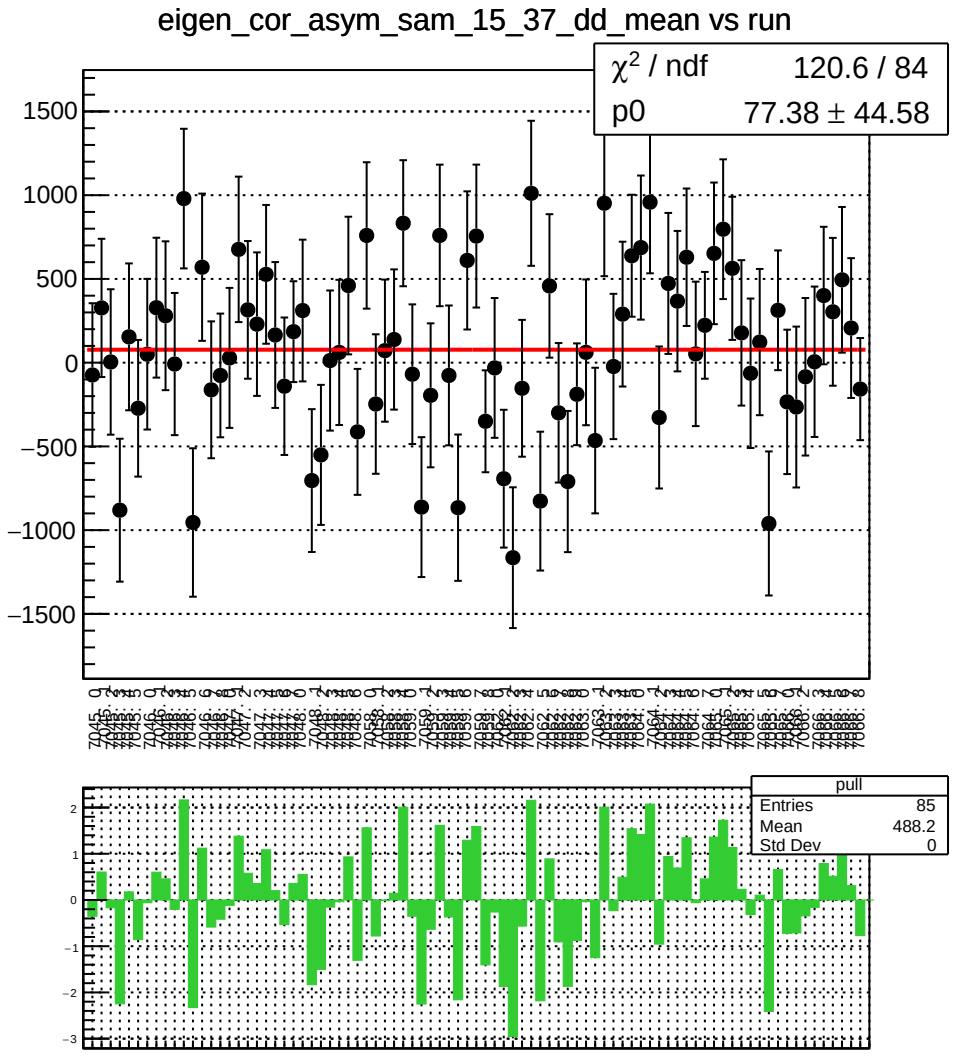

pull1D
Entries 85
Mean 0.005605
Std Dev 1.191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

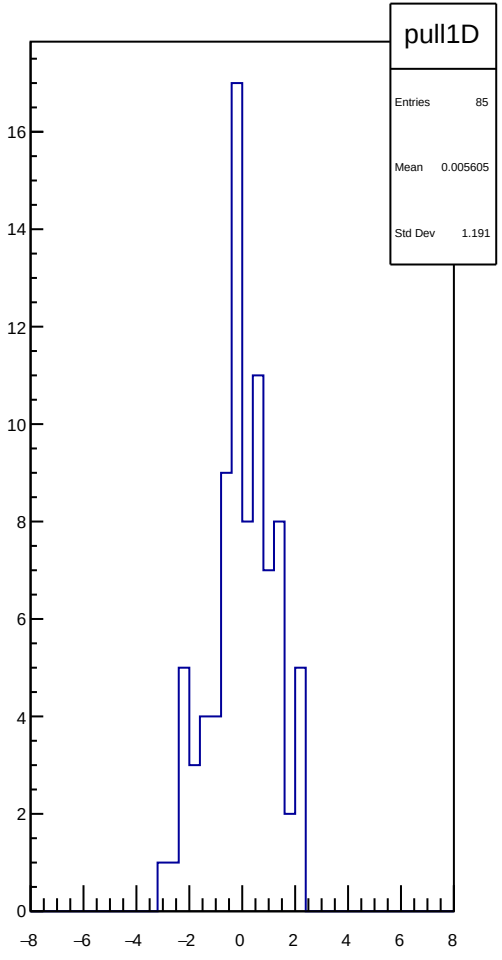

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1338 / 84
p0 40.44 ± 0.03153
46
45
44
43
42
41
40
39
38

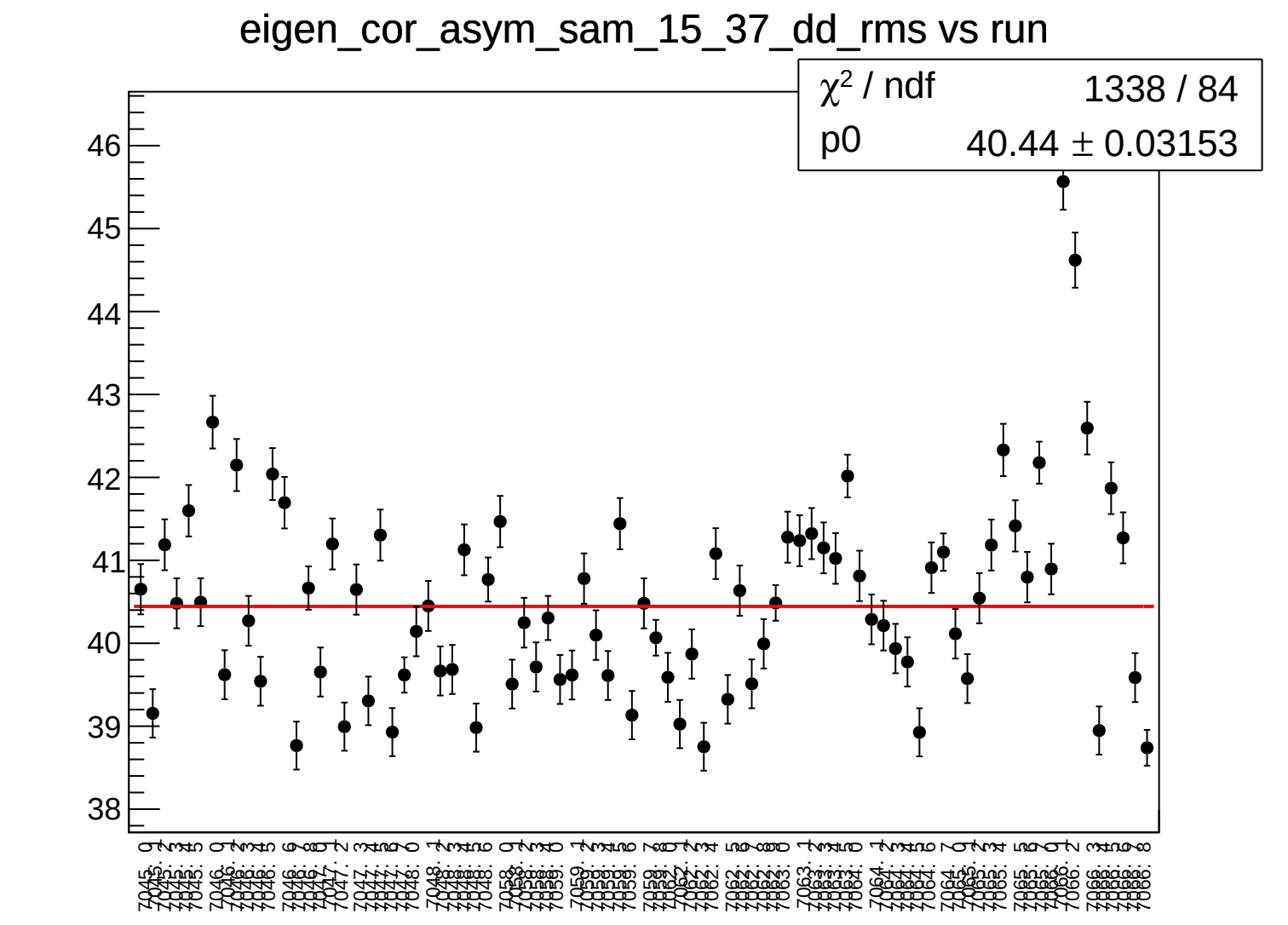

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 54.47 / 84
p0 110.3 ± 385.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −46.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

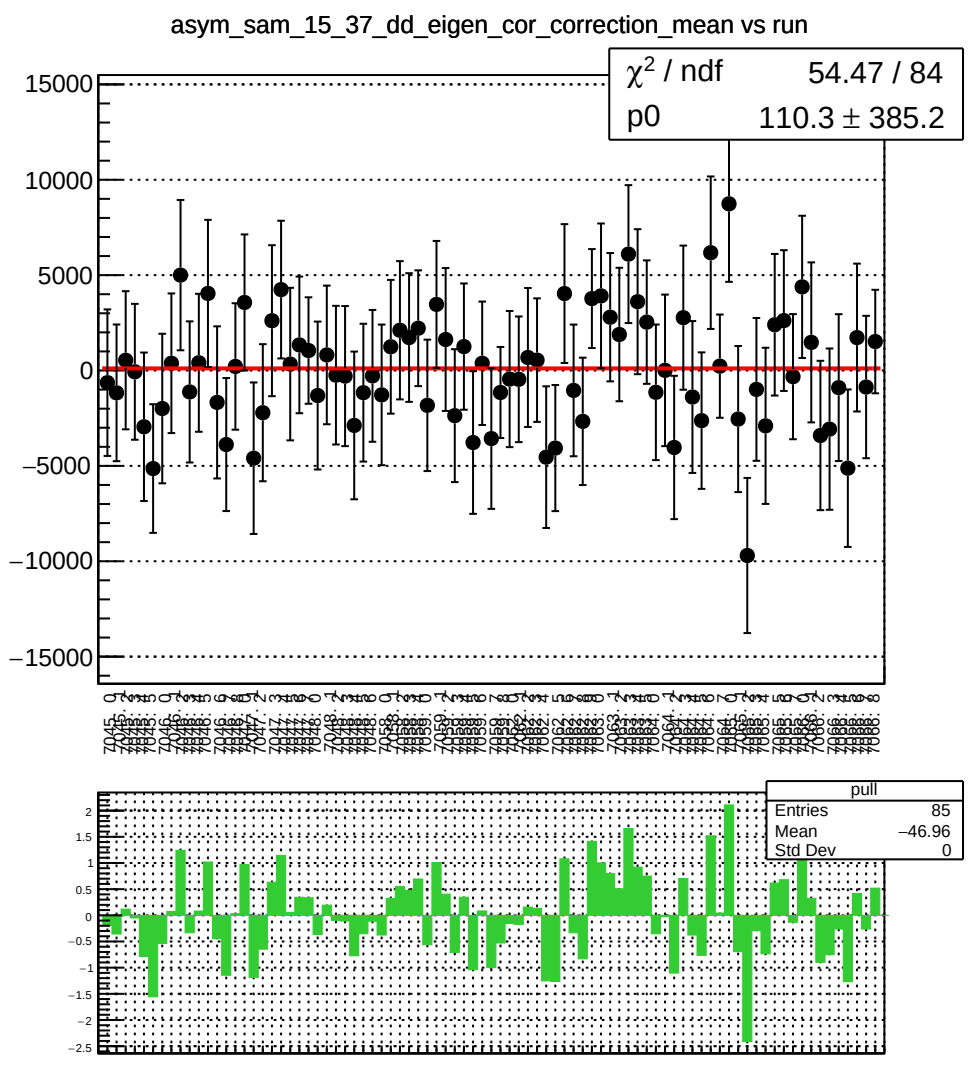

pull1D
Entries 85
Mean −0.01154
Std Dev 0.8004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

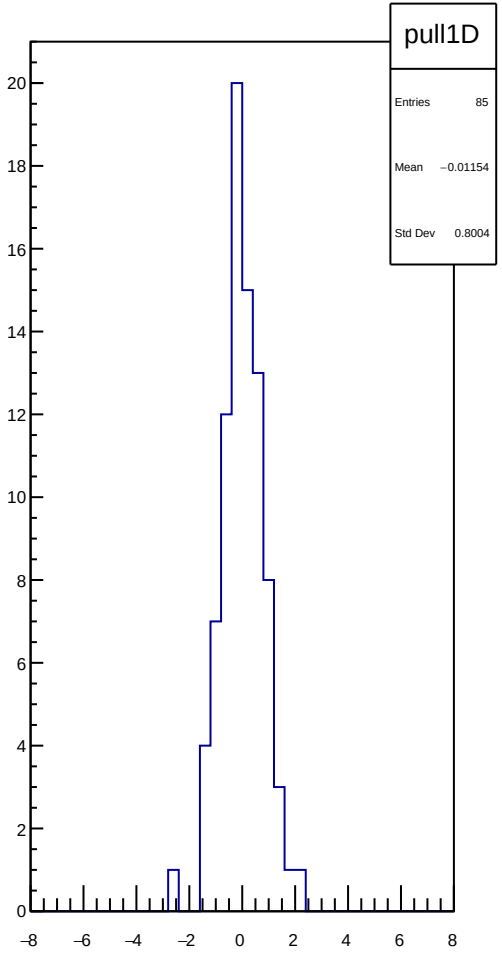

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 6476 / 84
p0 348.9 ± 0.2724
400
380
360
340
320
300

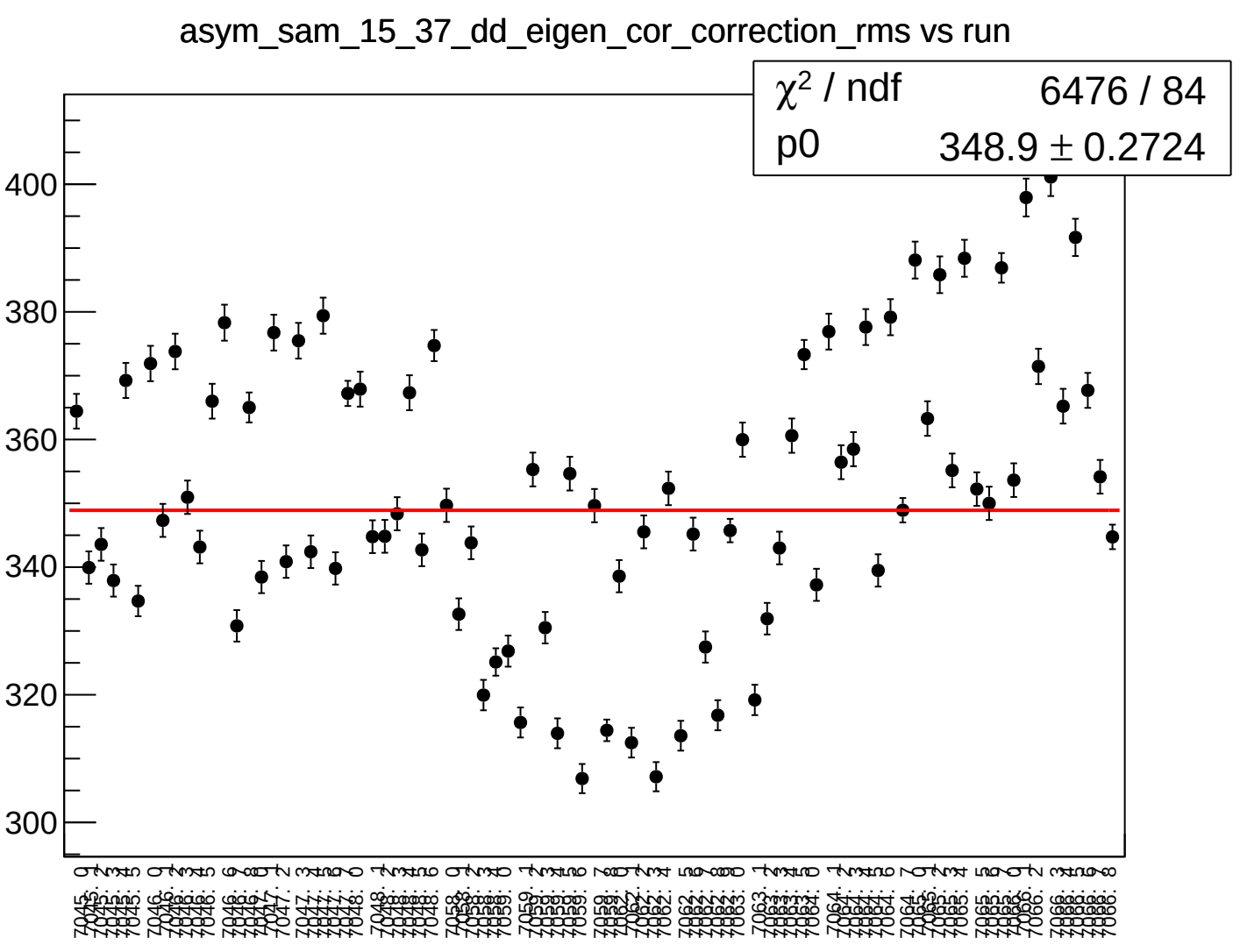

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 120.6 / 84
p0 77.38 ± 44.58
pull
Entries 85
Mean 488.2
Std Dev 0

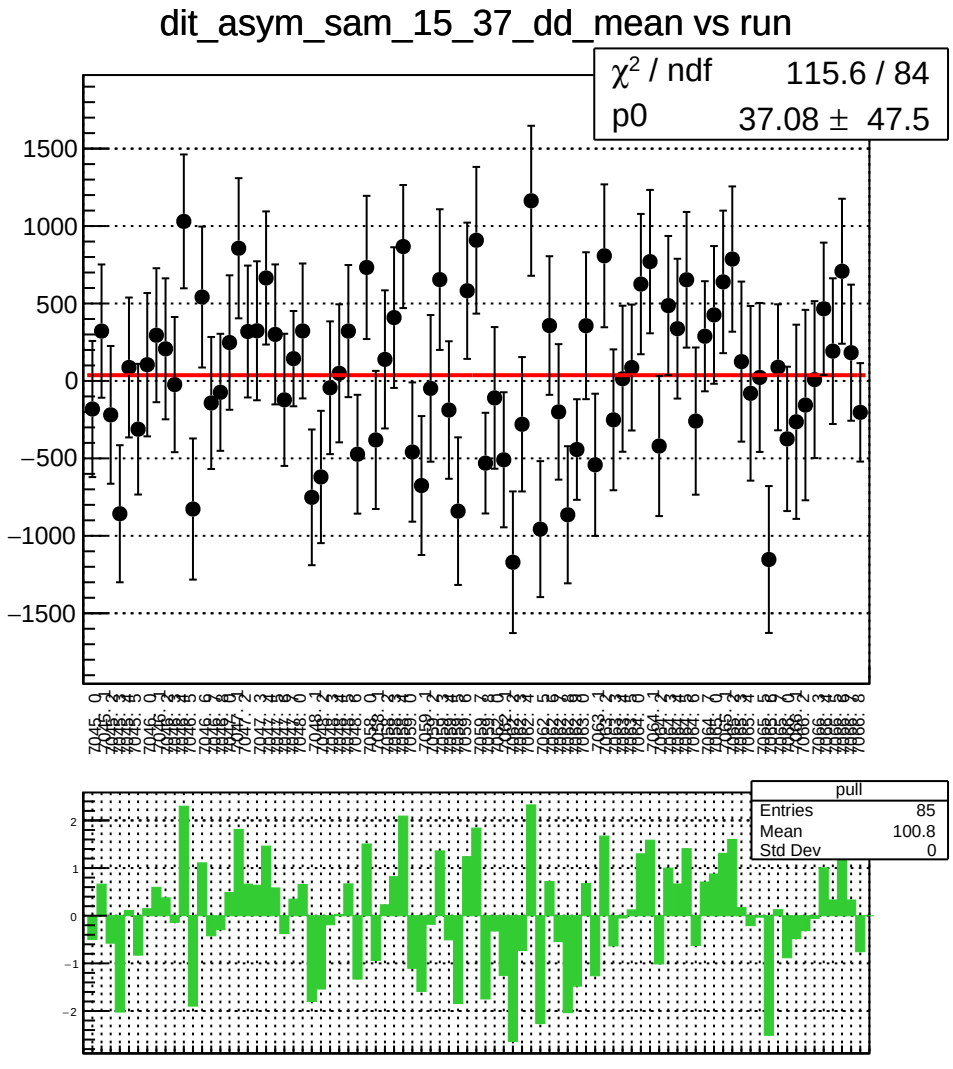

pull1D
Entries 85
Mean 0.005605
Std Dev 1.191

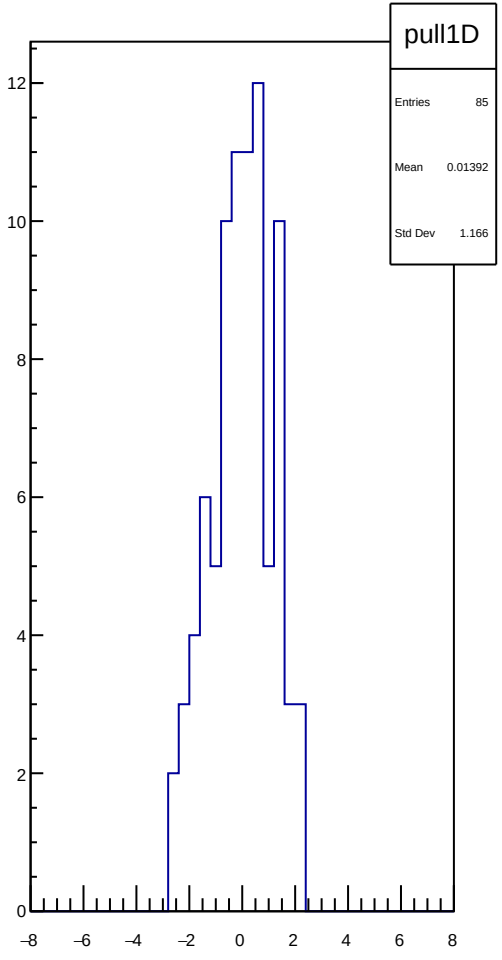

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1338 / 84
p0 40.44 ± 0.03153
46
45
44
43
42
41
40
39
38

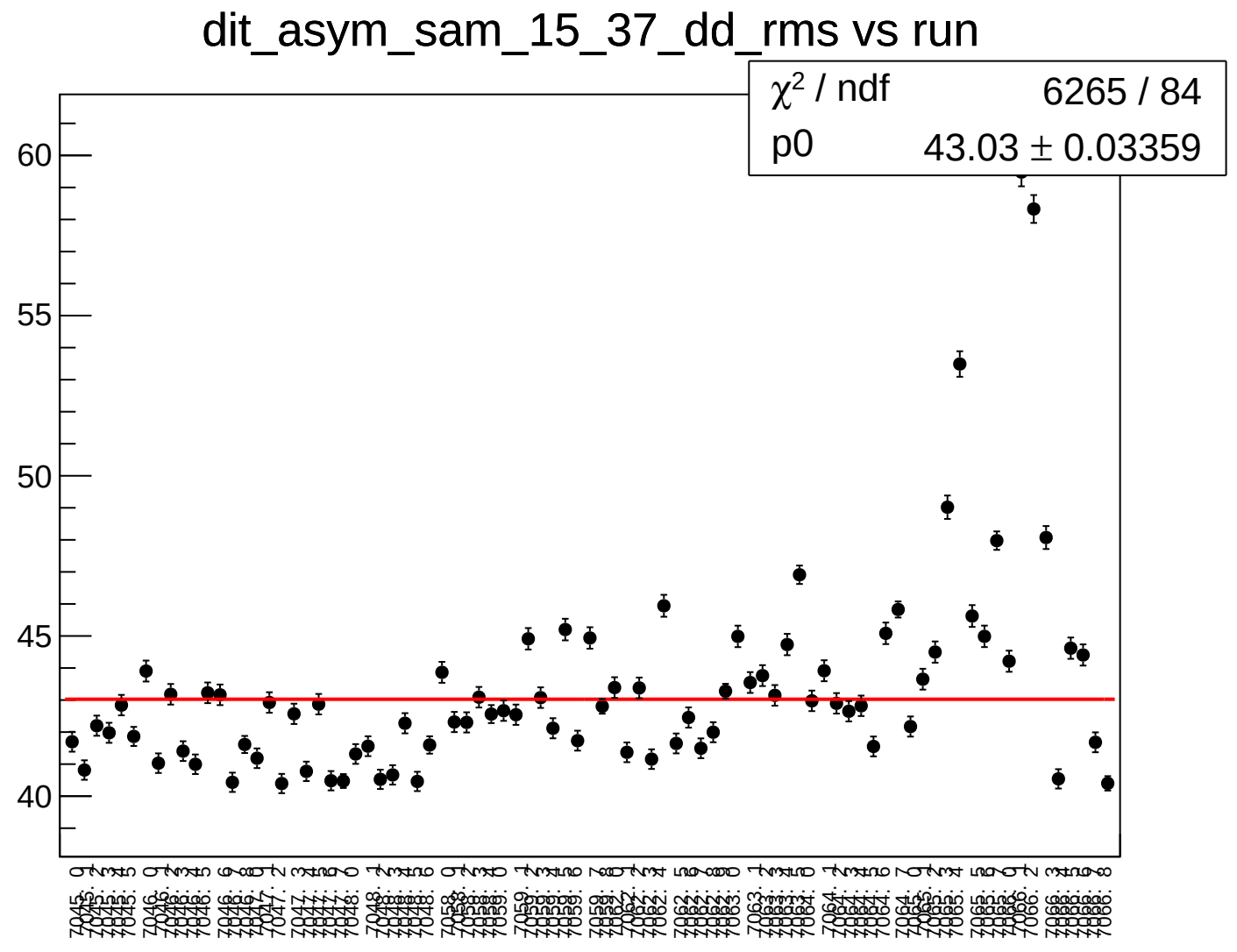

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 54.47 / 84
p0 110.3 ± 385.2
pull
Entries 85
Mean −46.96
Std Dev 0

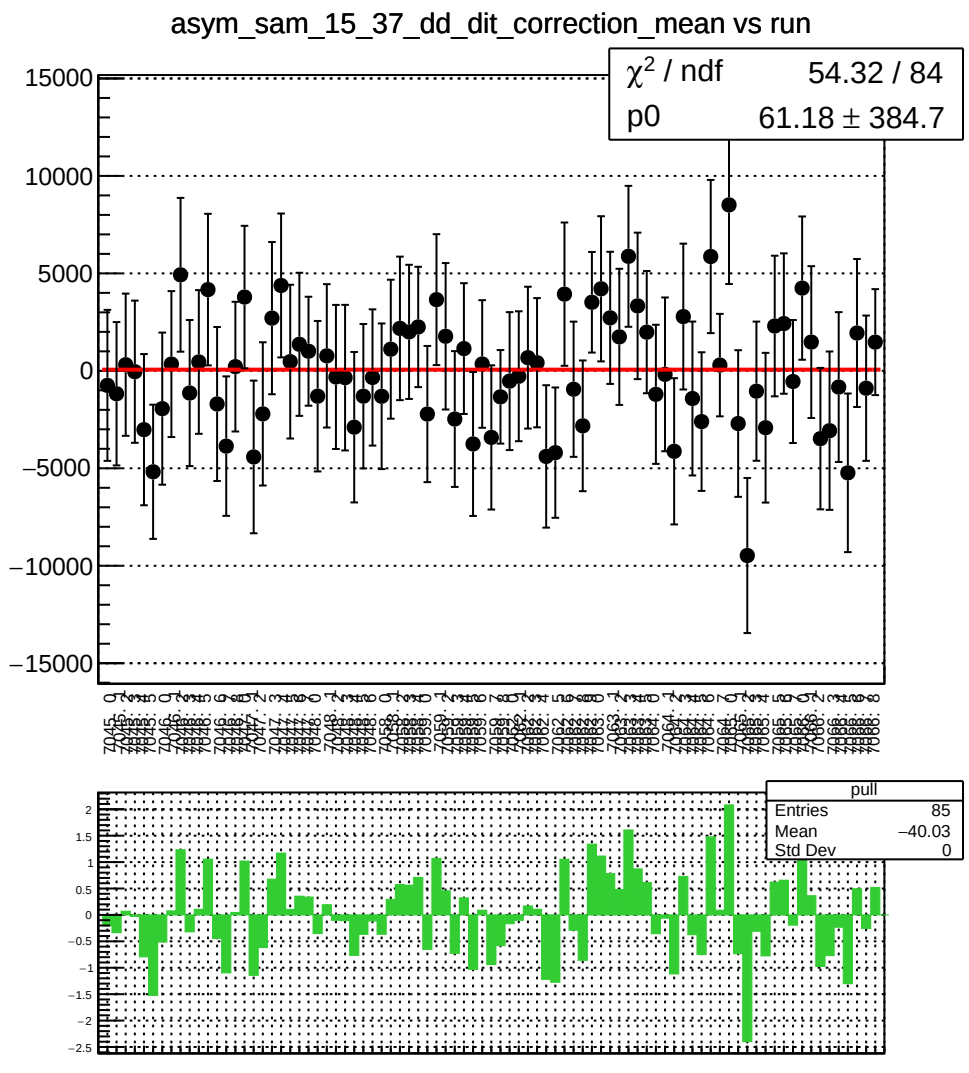

pull1D
Entries 85
Mean −0.01154
Std Dev 0.8004

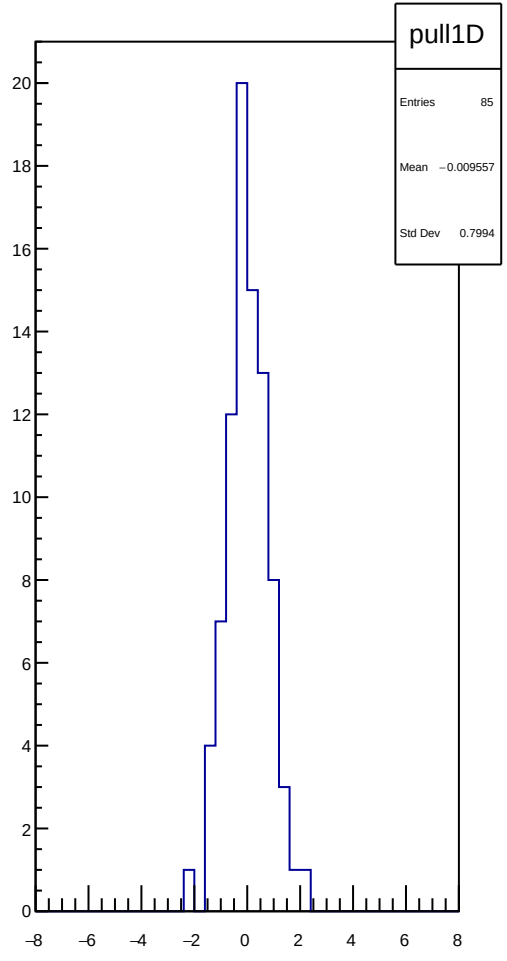

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6476 / 84
p0 348.9 ± 0.2724
400
380
360
340
320
300

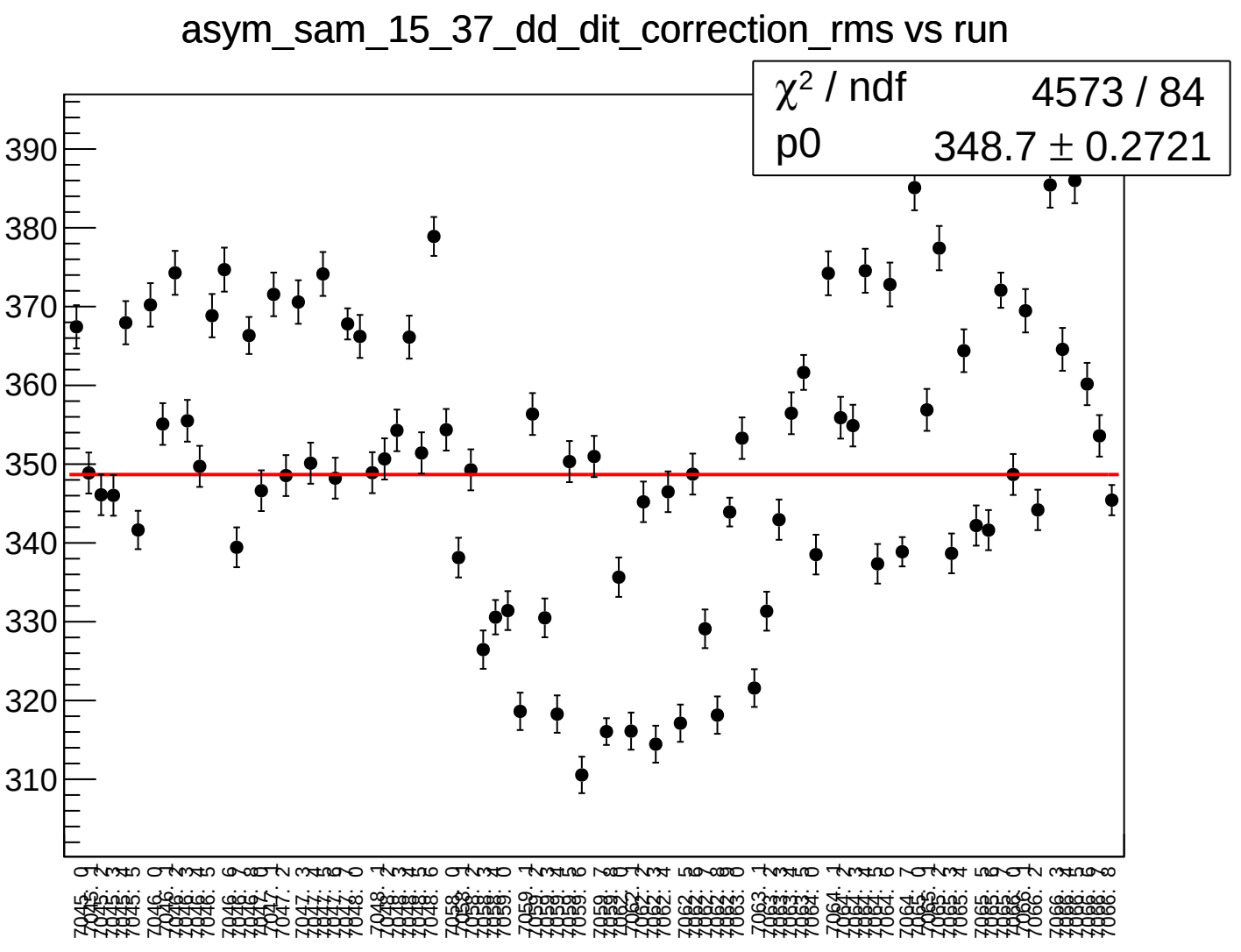

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 115.6 / 84
p0 37.08 ± 47.5
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 100.8
Std Dev 0
2
1
0
−1
−2

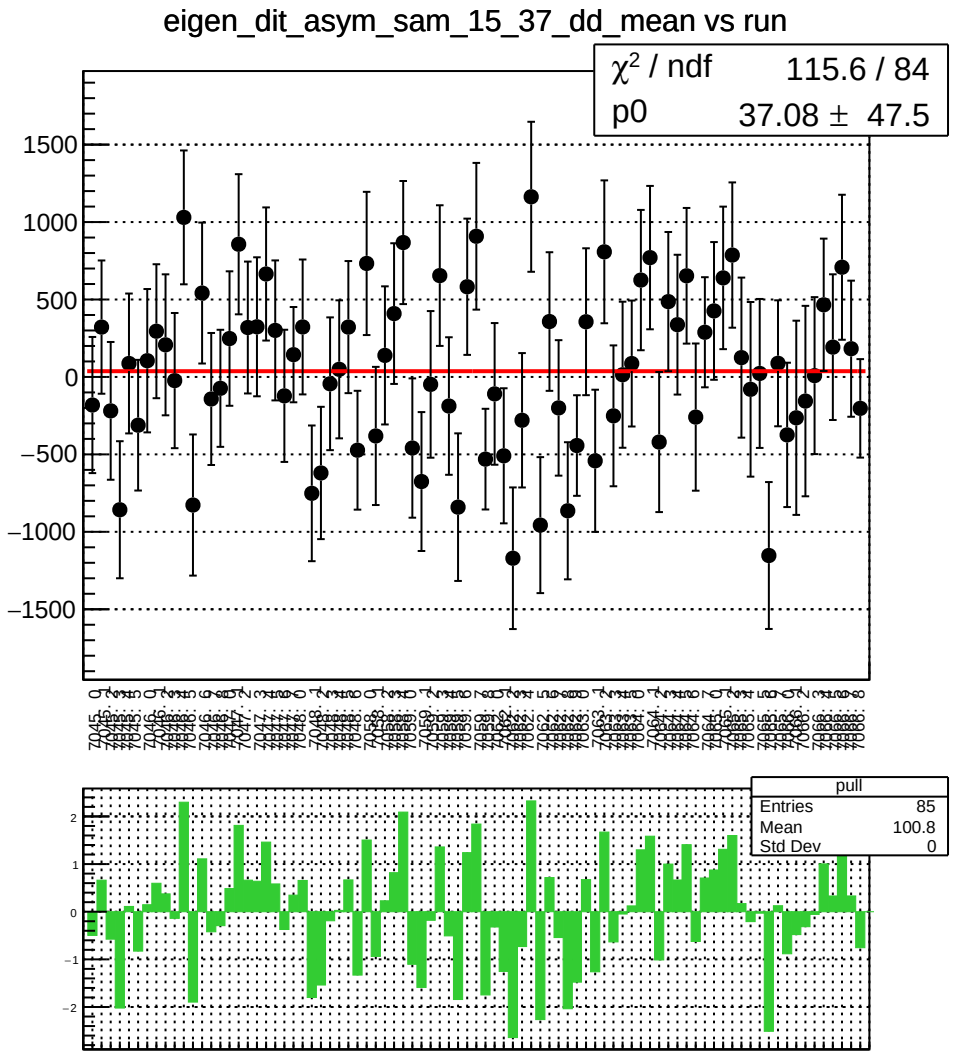

pull1D
Entries 85
Mean 0.01392
Std Dev 1.166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

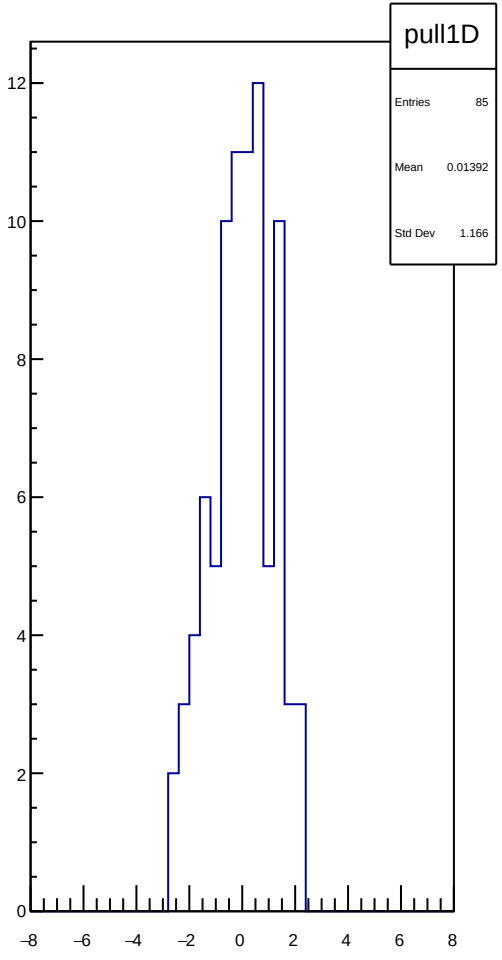

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6265 / 84
p0 43.03 ± 0.03359
60
55
50
45
40

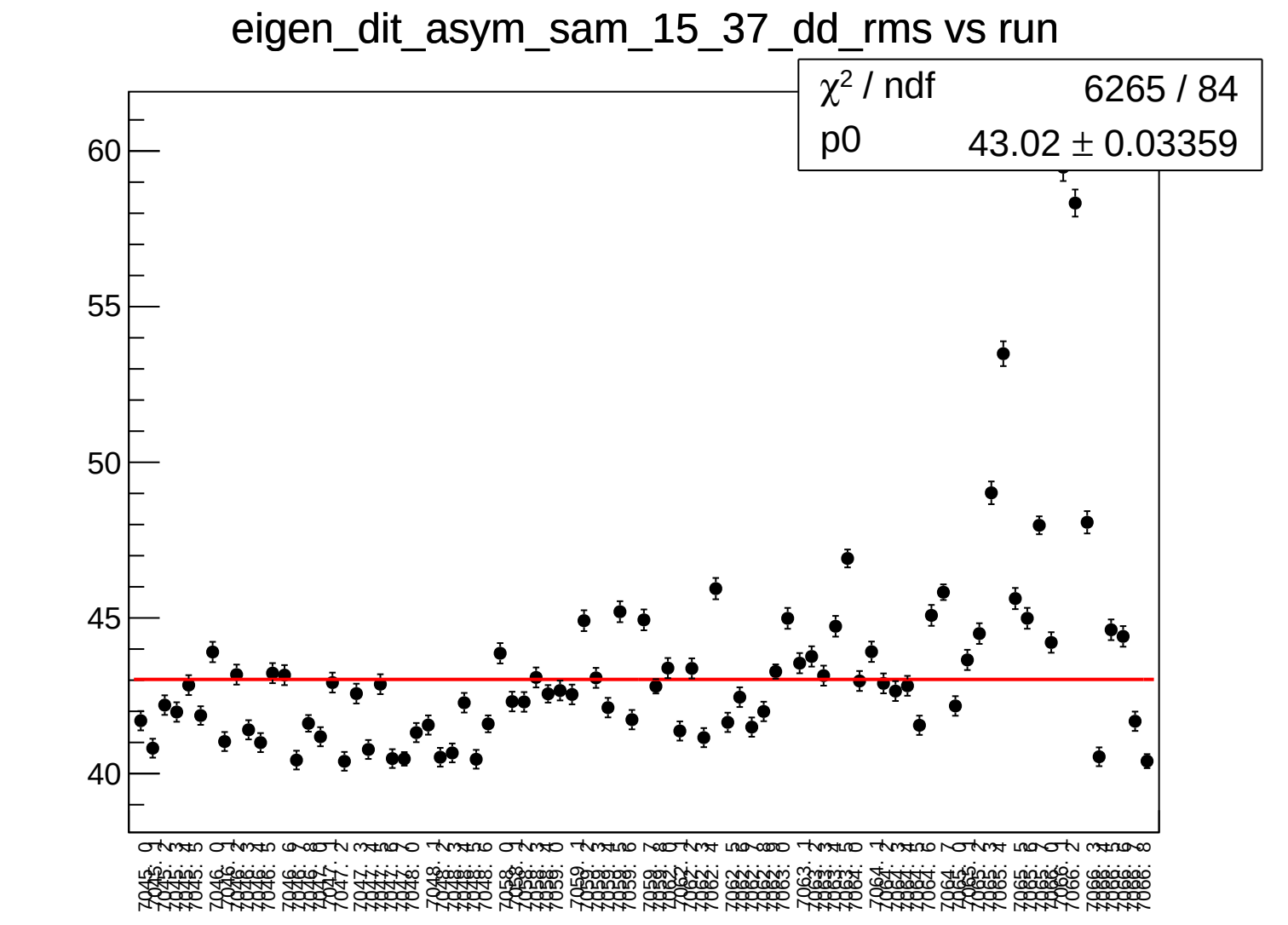

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 54.32 / 84
p0 61.18 ± 384.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −40.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

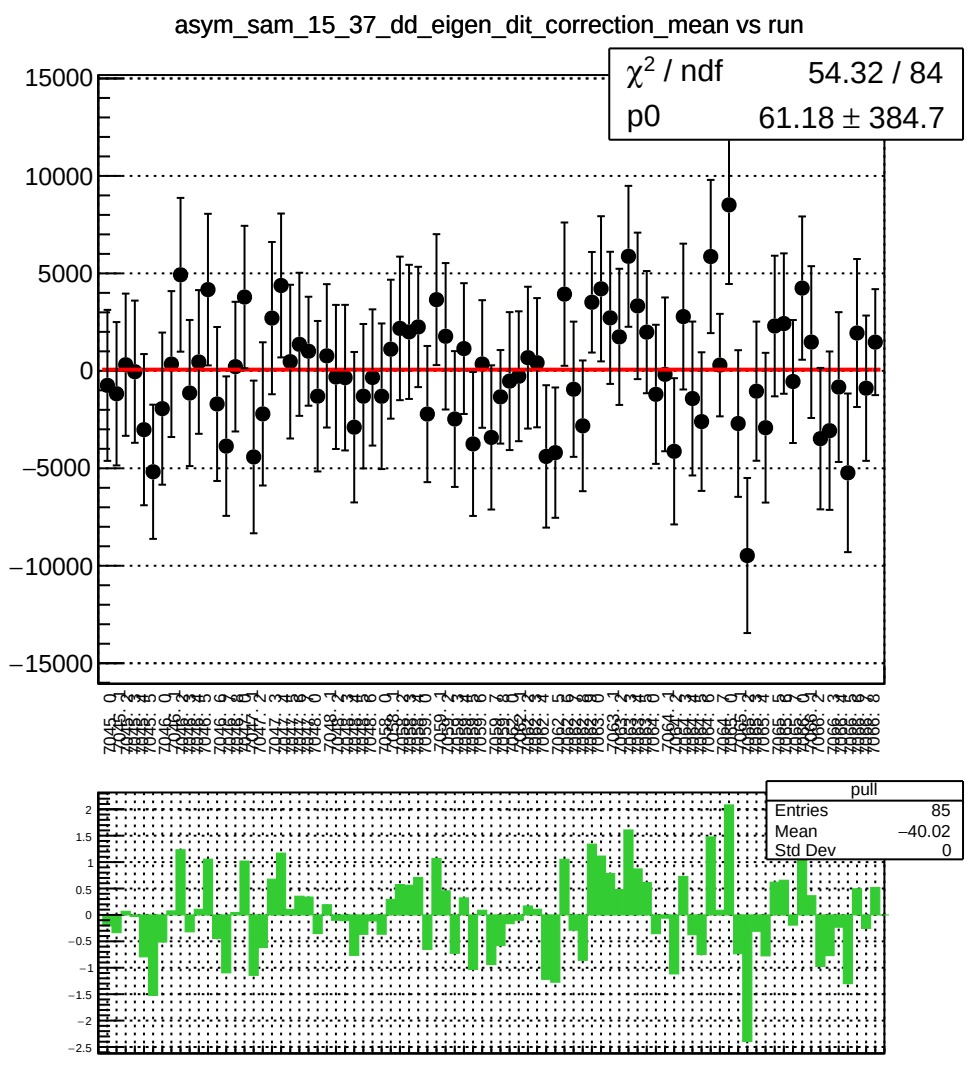

pull1D
Entries 85
Mean −0.009557
Std Dev 0.7994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

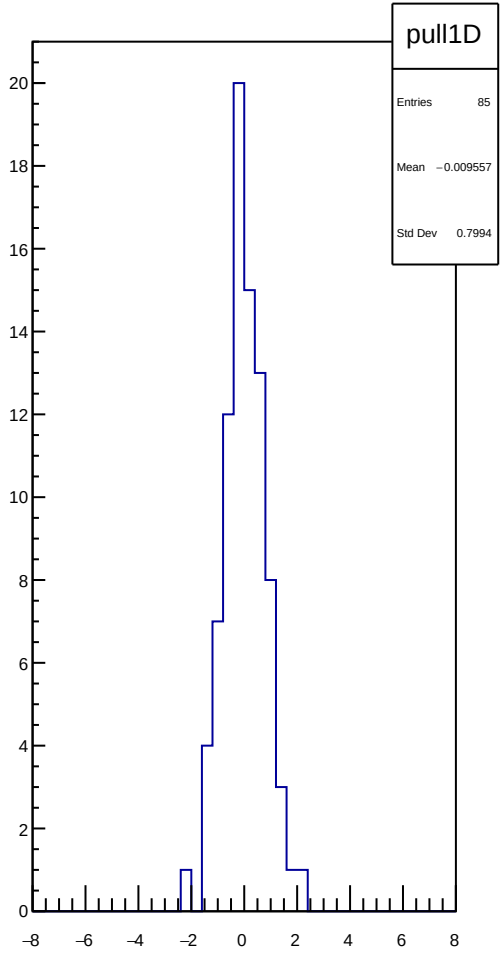

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4573 / 84
p0 348.7 ± 0.2721
390
380
370
360
350
340
330
320
310

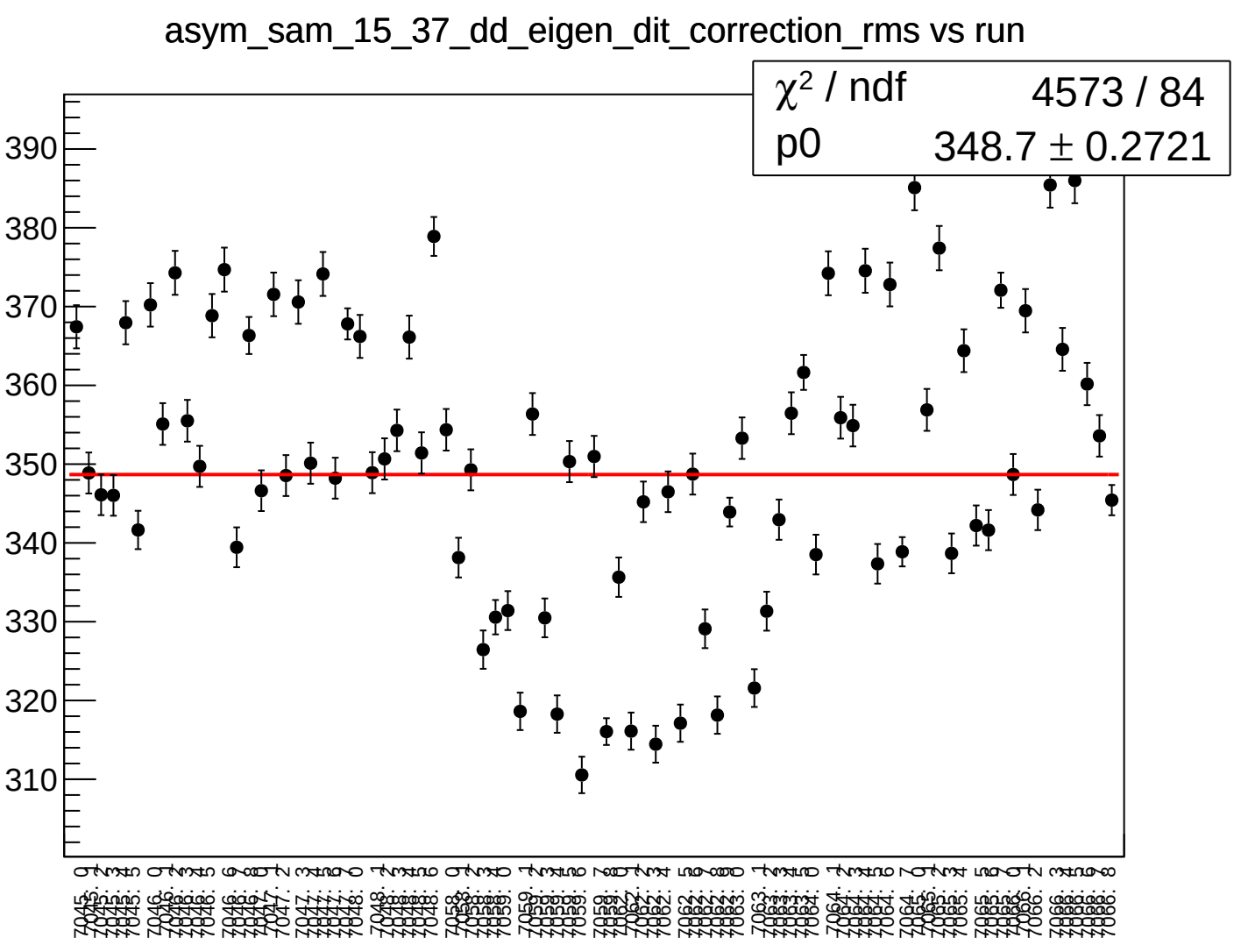

eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 115.6 / 84
p0 37.08 ± 47.5
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 100.8
Std Dev 0
2
1
0
−1
−2

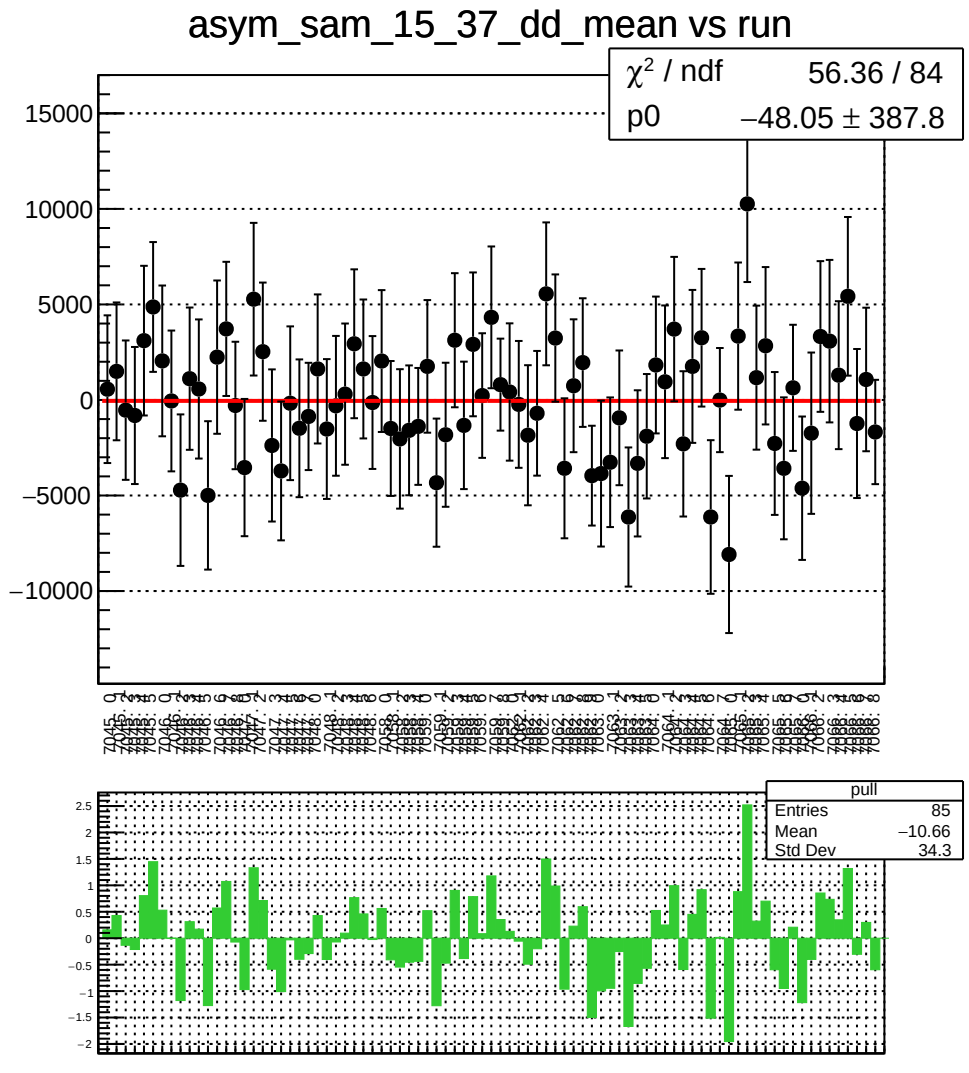

pull1D
Entries 85
Mean 0.01392
Std Dev 1.166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

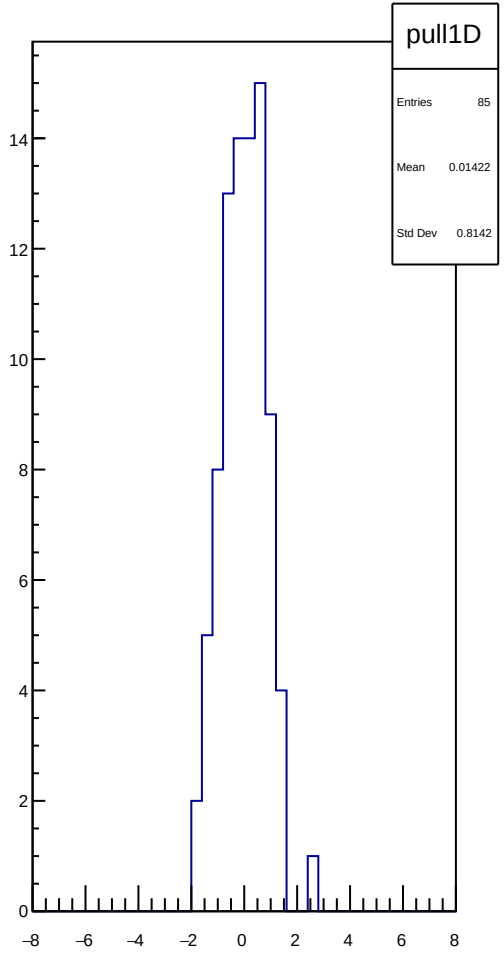

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6265 / 84
p0 43.02 ± 0.03359
60
55
50
45
40

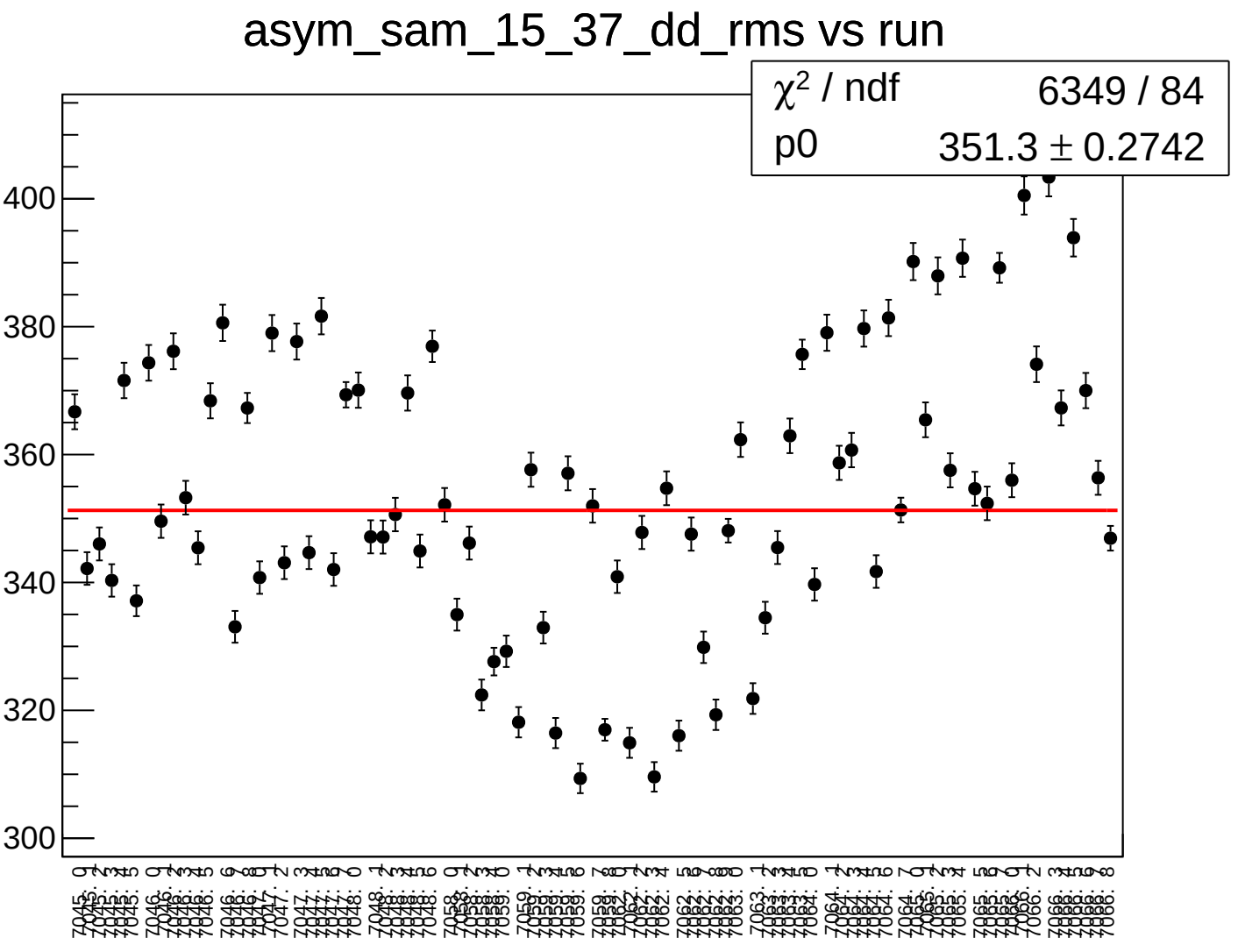

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 54.32 / 84
p0 61.18 ± 384.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −40.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

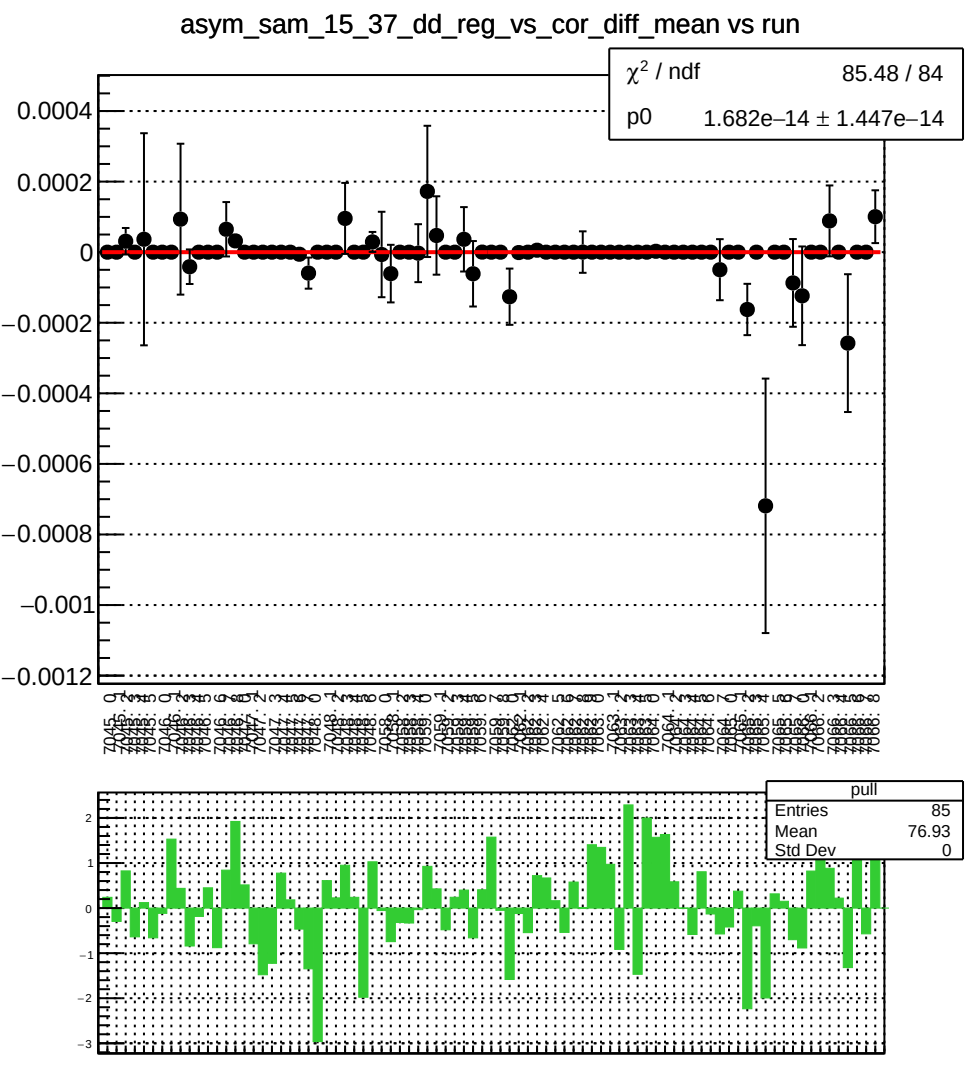

pull1D
Entries 85
Mean −0.009557
Std Dev 0.7994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

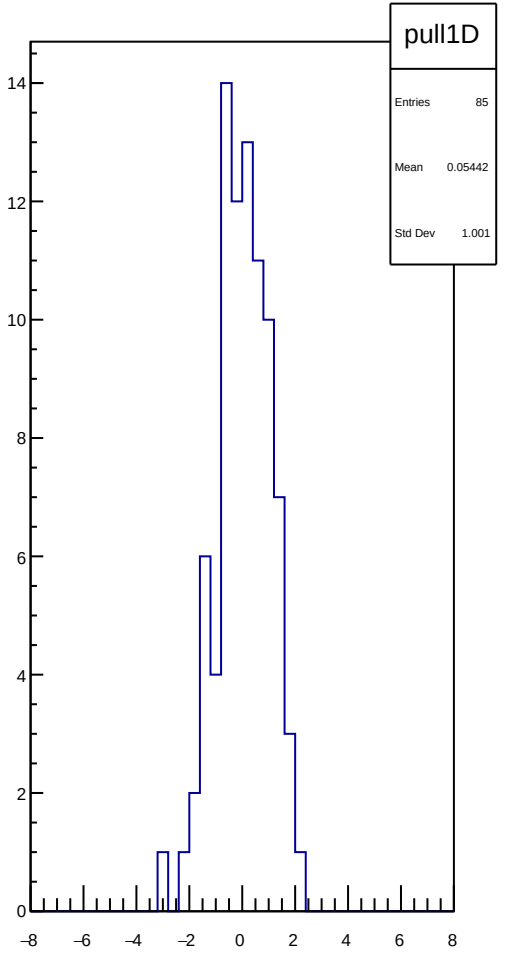

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4573 / 84
p0 348.7 ± 0.2721
390
380
370
360
350
340
330
320
310

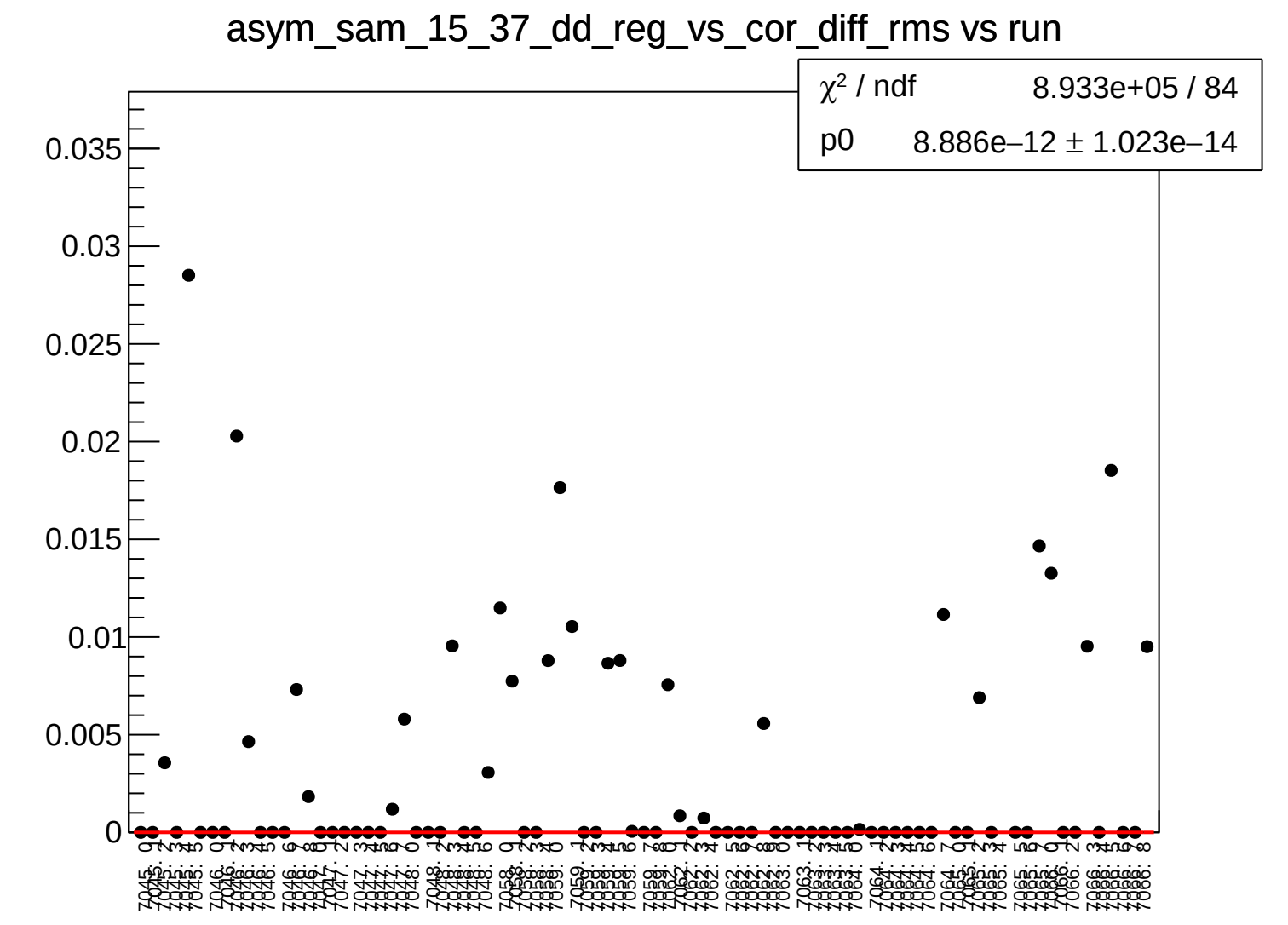

asym_sam_15_37_dd_mean vs run
χ² / ndf 56.36 / 84
p0 −48.05 ± 387.8
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −10.66
Std Dev 34.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

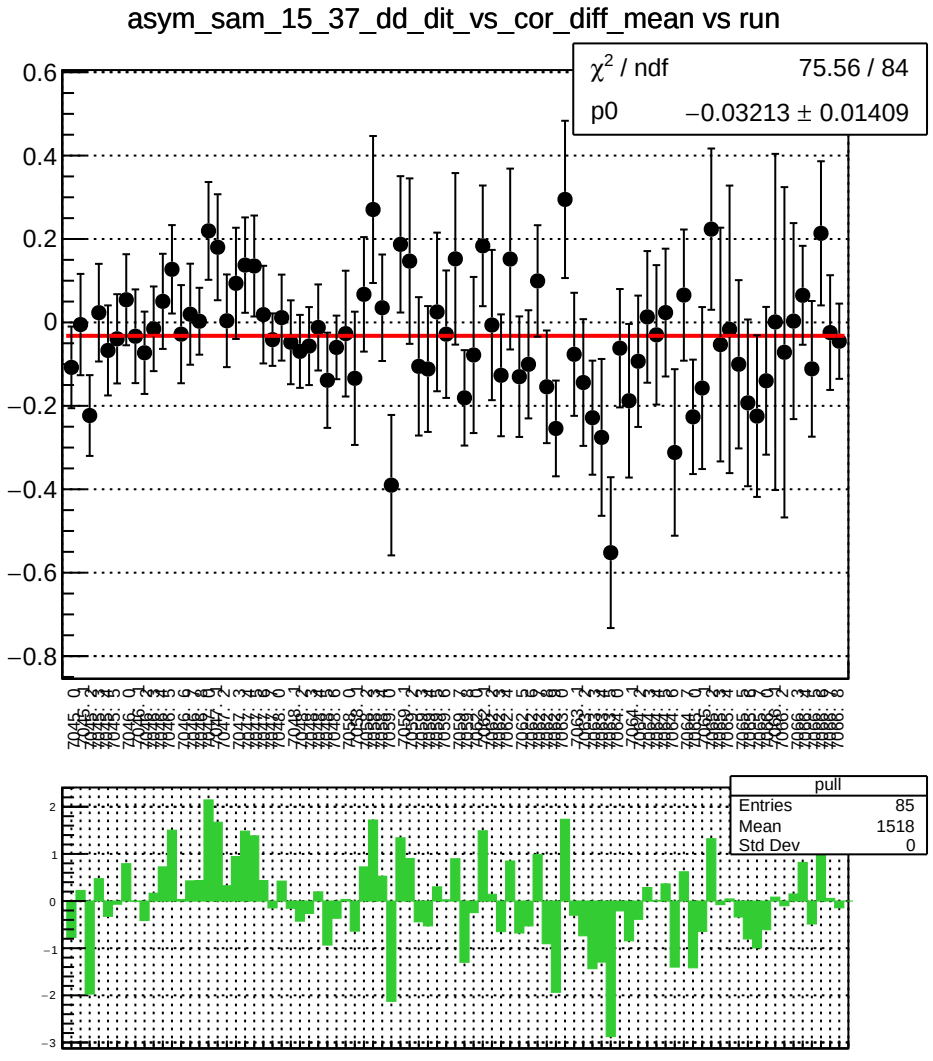

pull1D
Entries 85
Mean 0.01422
Std Dev 0.8142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

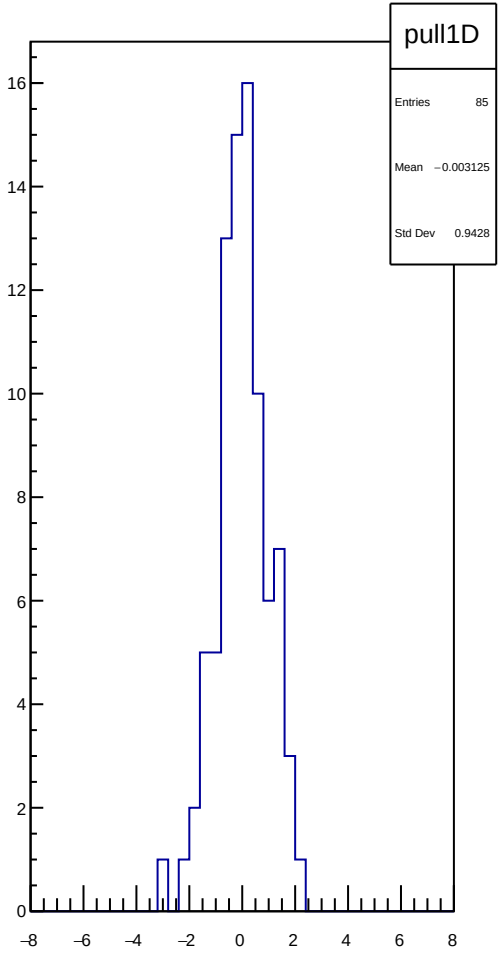

asym_sam_15_37_dd_rms vs run
χ² / ndf 6349 / 84
p0 351.3 ± 0.2742
400
380
360
340
320
300

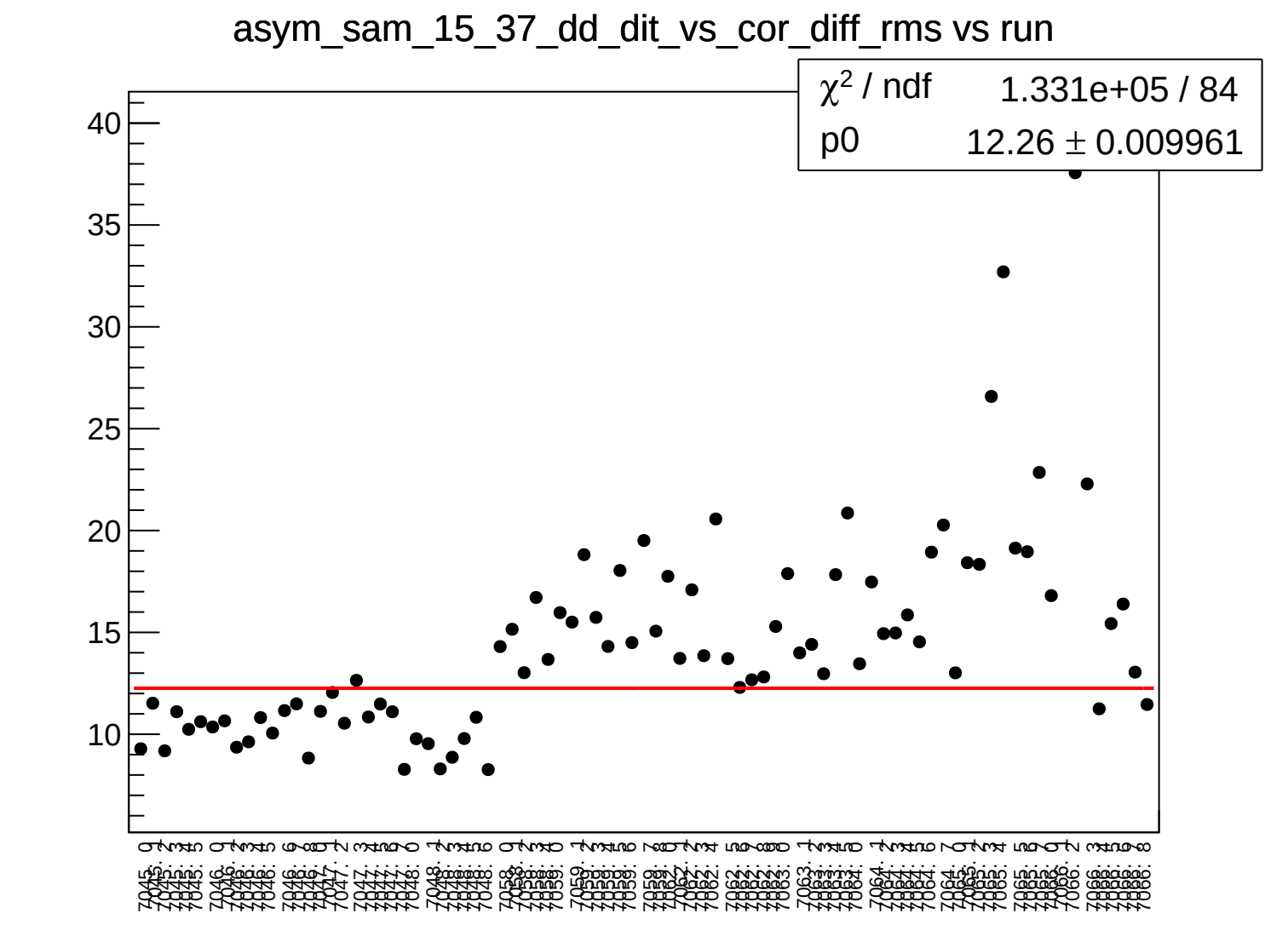

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 84
p0 1.682e−14 ± 1.447e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 85
Mean 76.93
Std Dev 0
2
1
0
−1
−2
−3

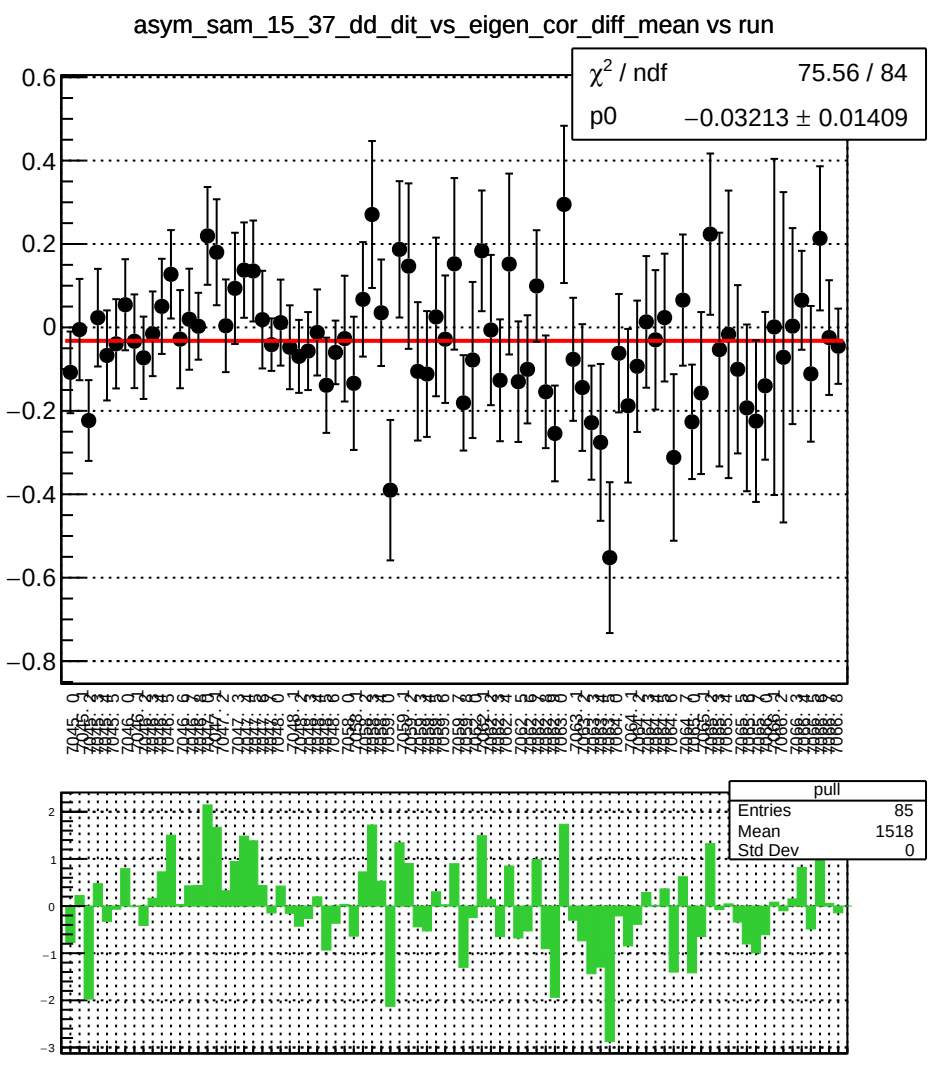

pull1D
Entries 85
Mean 0.05442
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

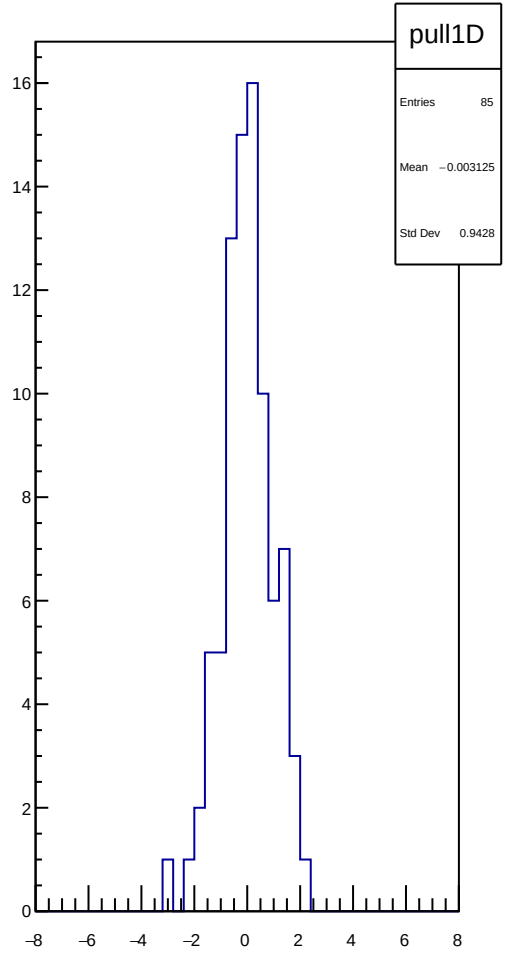

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.933e+05 / 84
p0 8.886e−12 ± 1.023e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

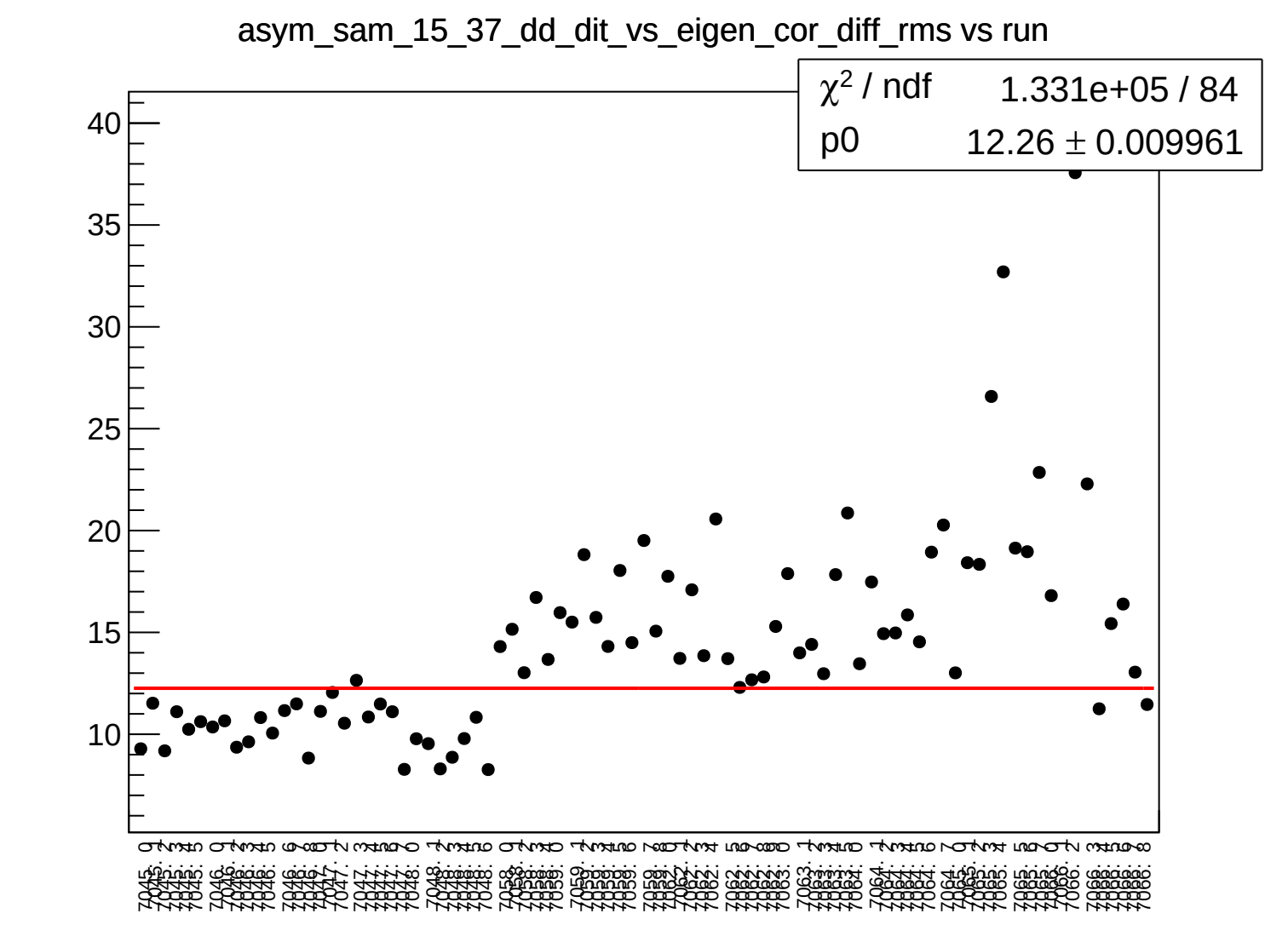

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.56 / 84
p0 −0.03213 ± 0.01409
pull
Entries 85
Mean 1518
Std Dev 0

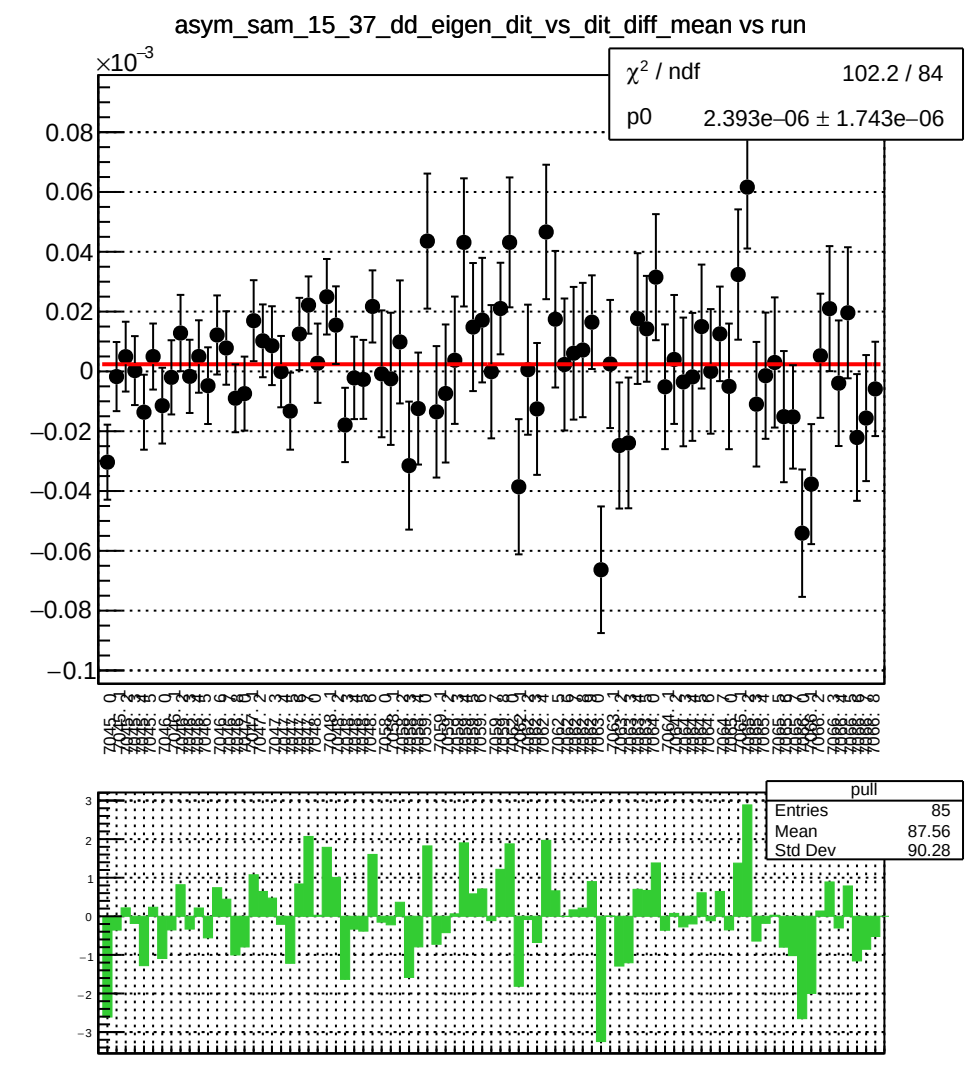

pull1D
Entries 85
Mean −0.003125
Std Dev 0.9428

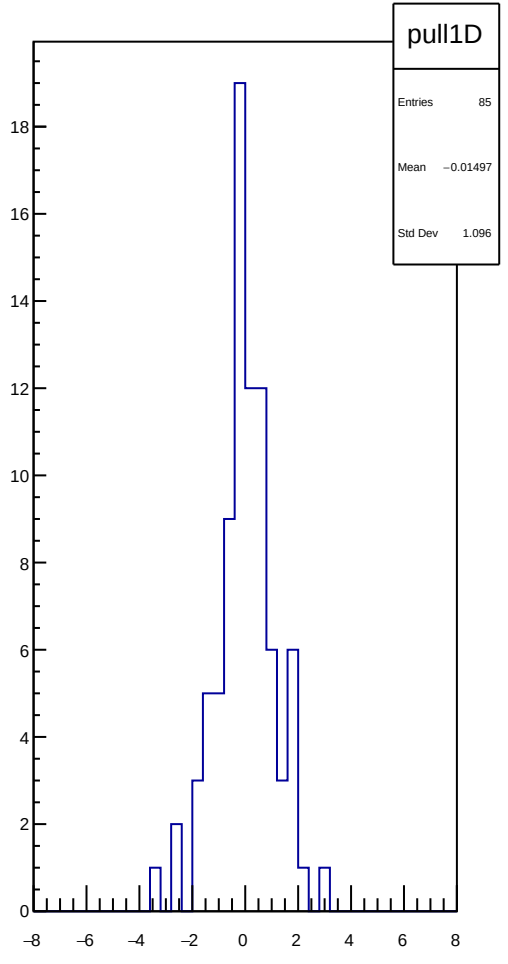

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.331e+05 / 84
p0 12.26 ± 0.009961
40
35
30
25
20
15
10

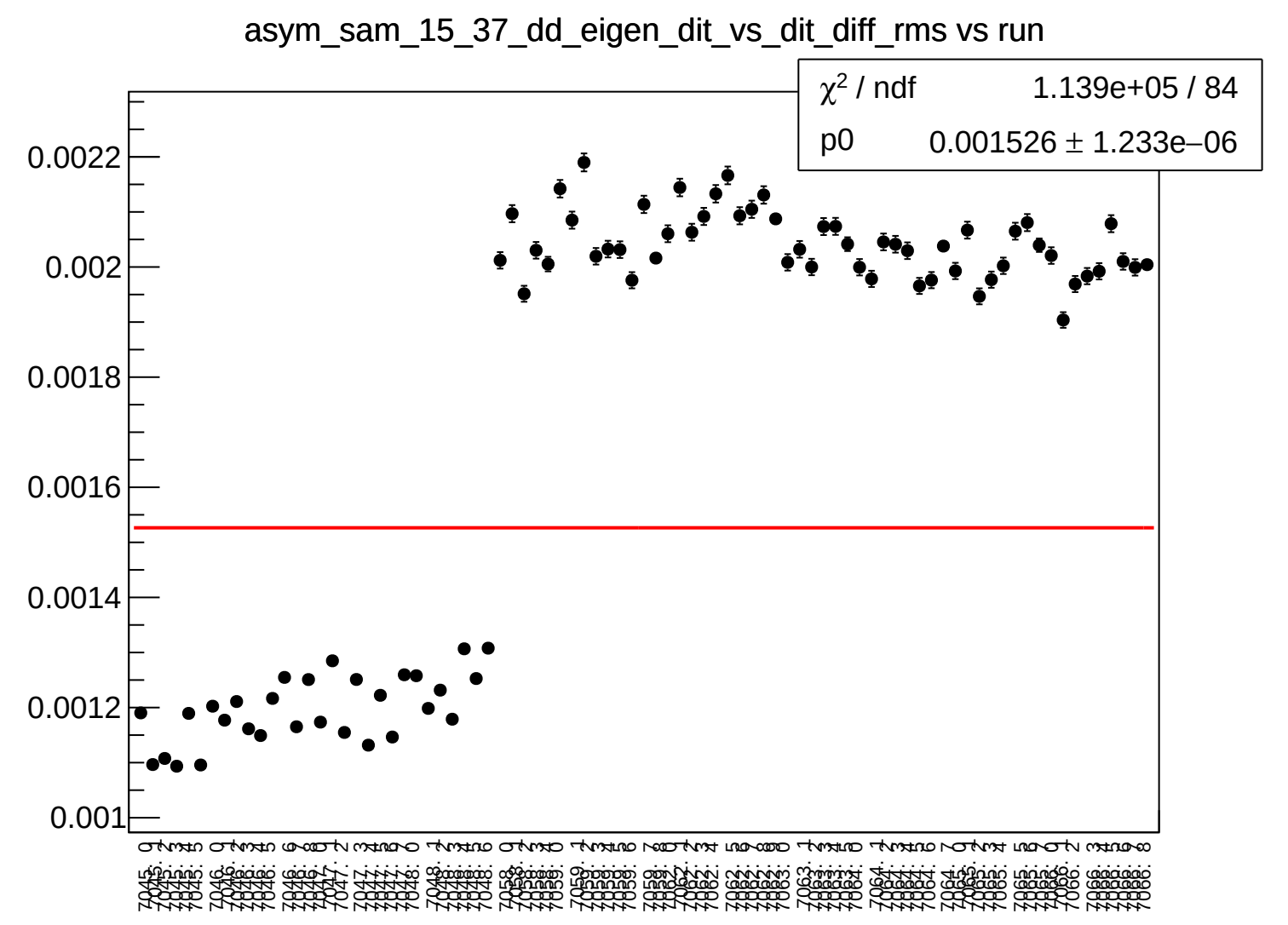

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.56 / 84
p0 −0.03213 ± 0.01409
pull
Entries 85
Mean 1518
Std Dev 0

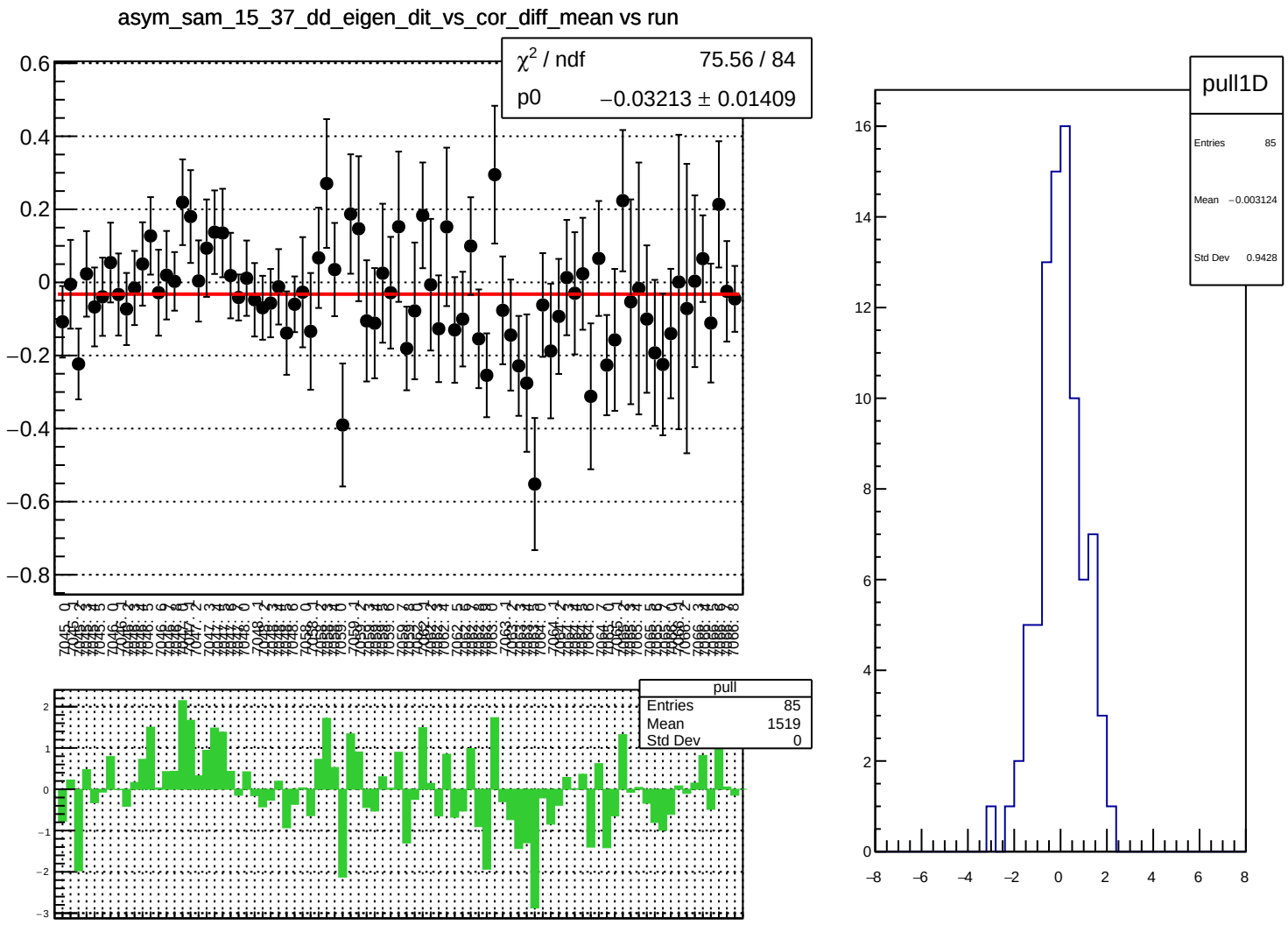

pull1D
Entries 85
Mean −0.003125
Std Dev 0.9428

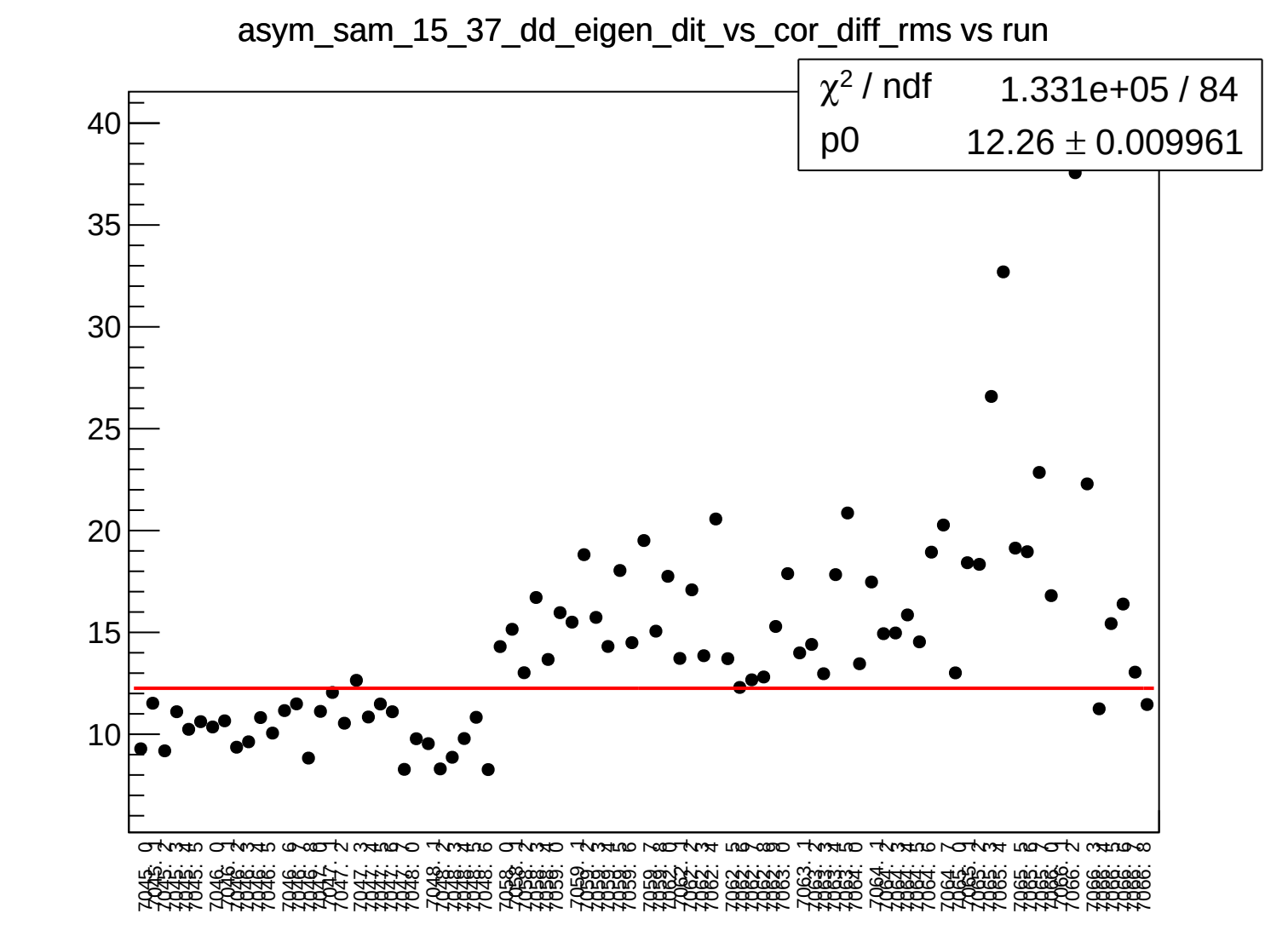

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 84
p0 12.26 ± 0.009961
40
35
30
25
20
15
10

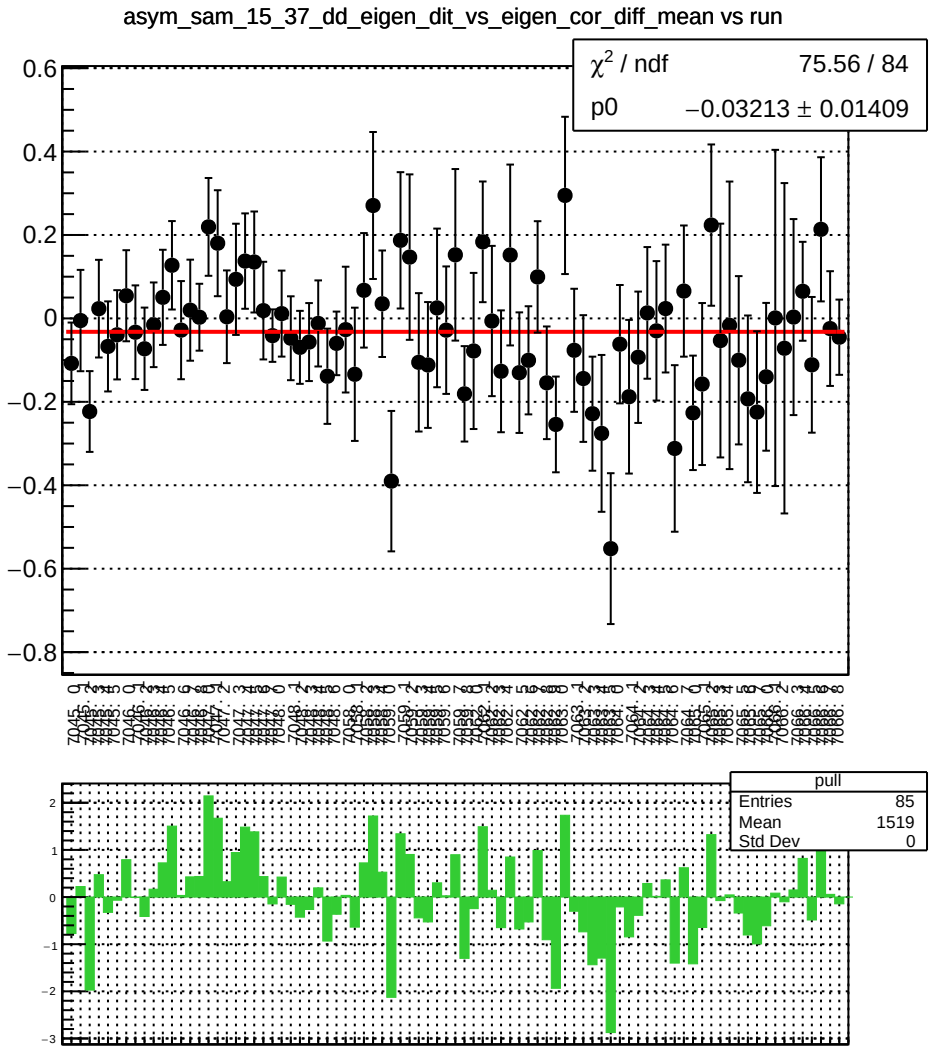

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.2 / 84
p0 2.393e−06 ± 1.743e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 85
Mean 87.56
Std Dev 90.28
3
2
1
0
−1
−2
−3

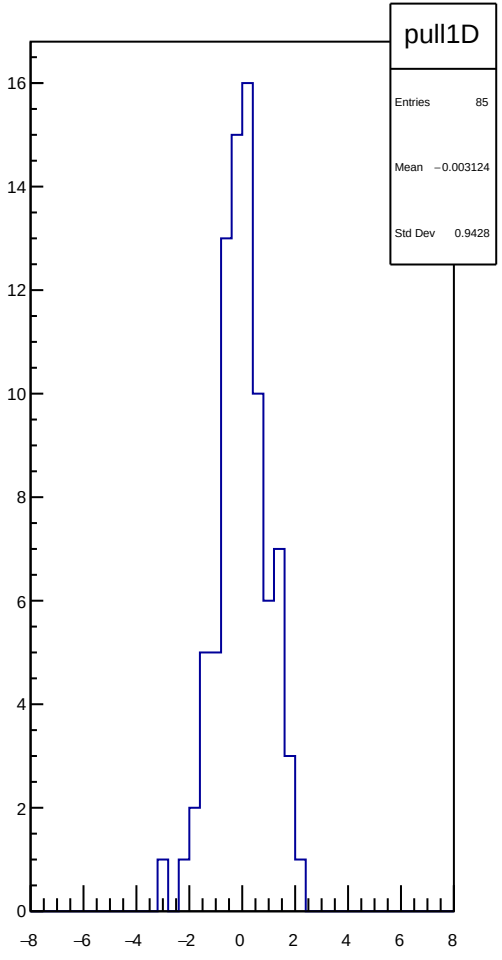

pull1D
Entries 85
Mean −0.01497
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

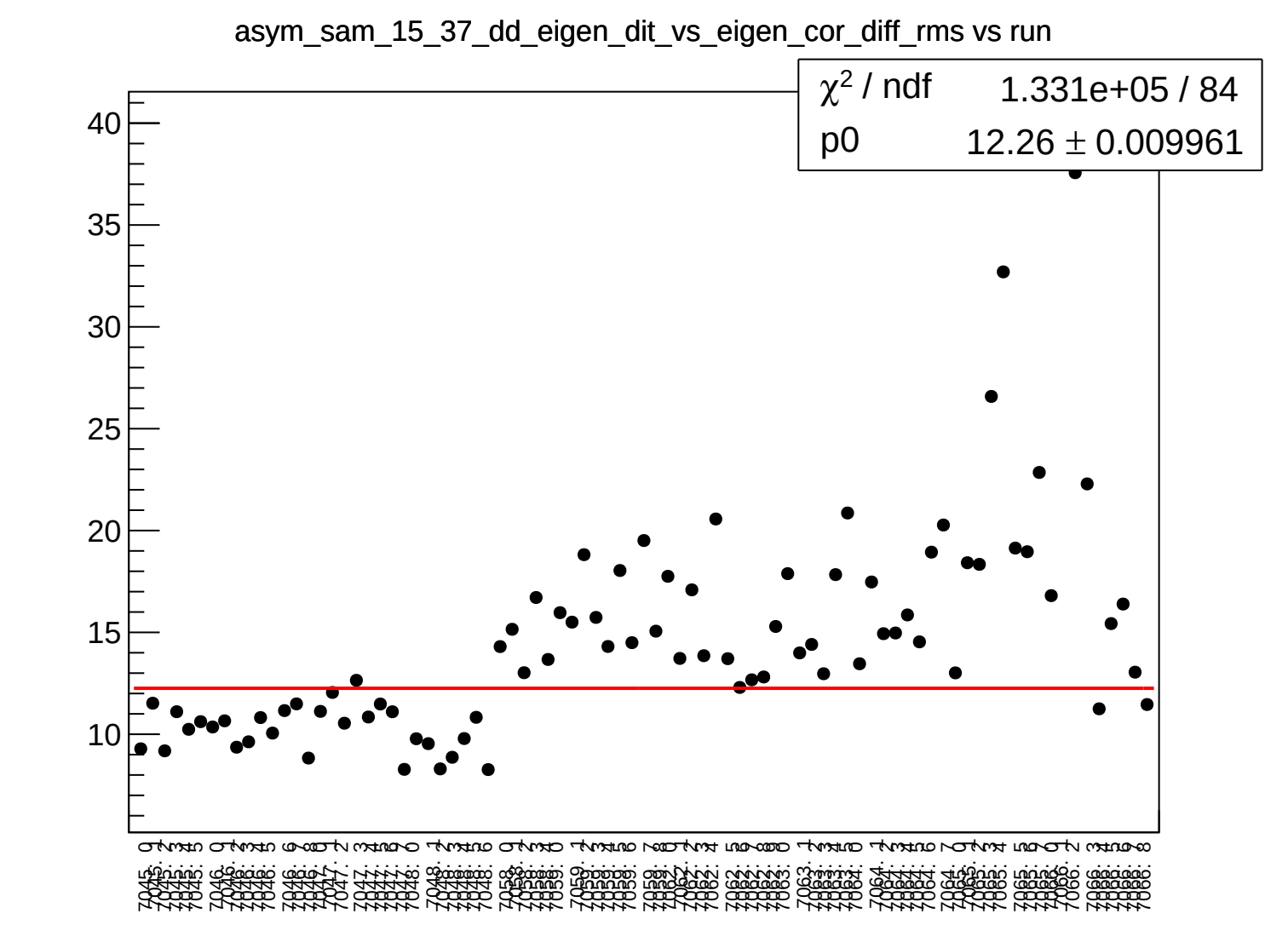

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.139e+05 / 84
p0 0.001526 ± 1.233e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

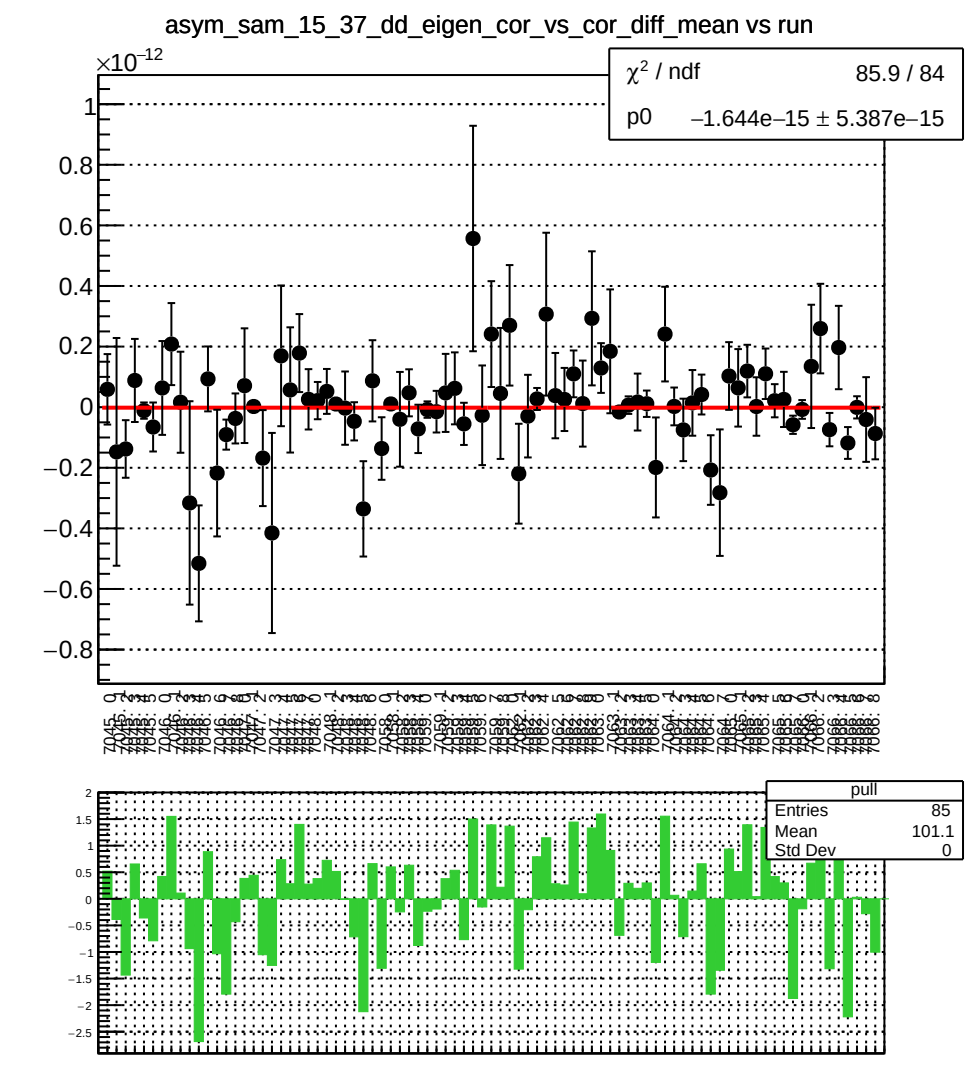

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.56 / 84
p0 −0.03213 ± 0.01409
pull
Entries 85
Mean 1519
Std Dev 0
pull1D
Entries 85
Mean −0.003124
Std Dev 0.9428

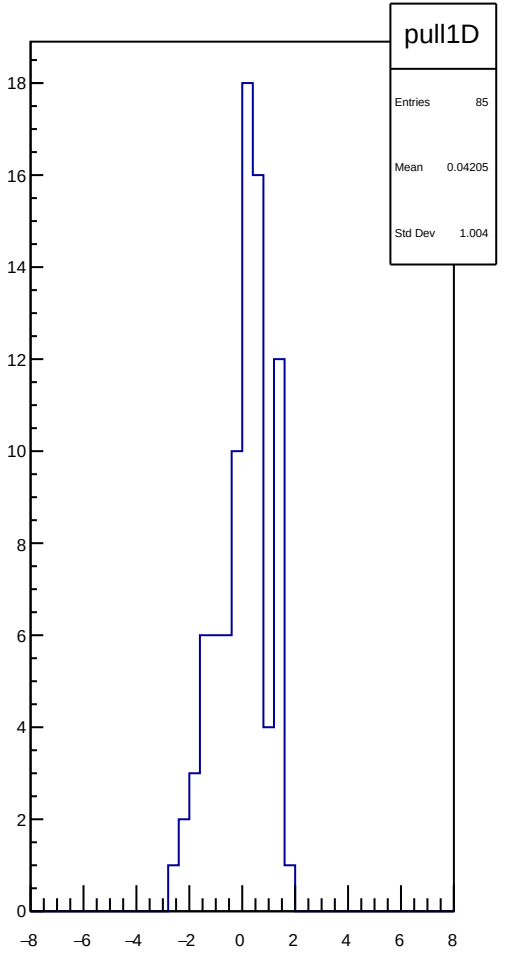

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 84
p0 12.26 ± 0.009961
40
35
30
25
20
15
10

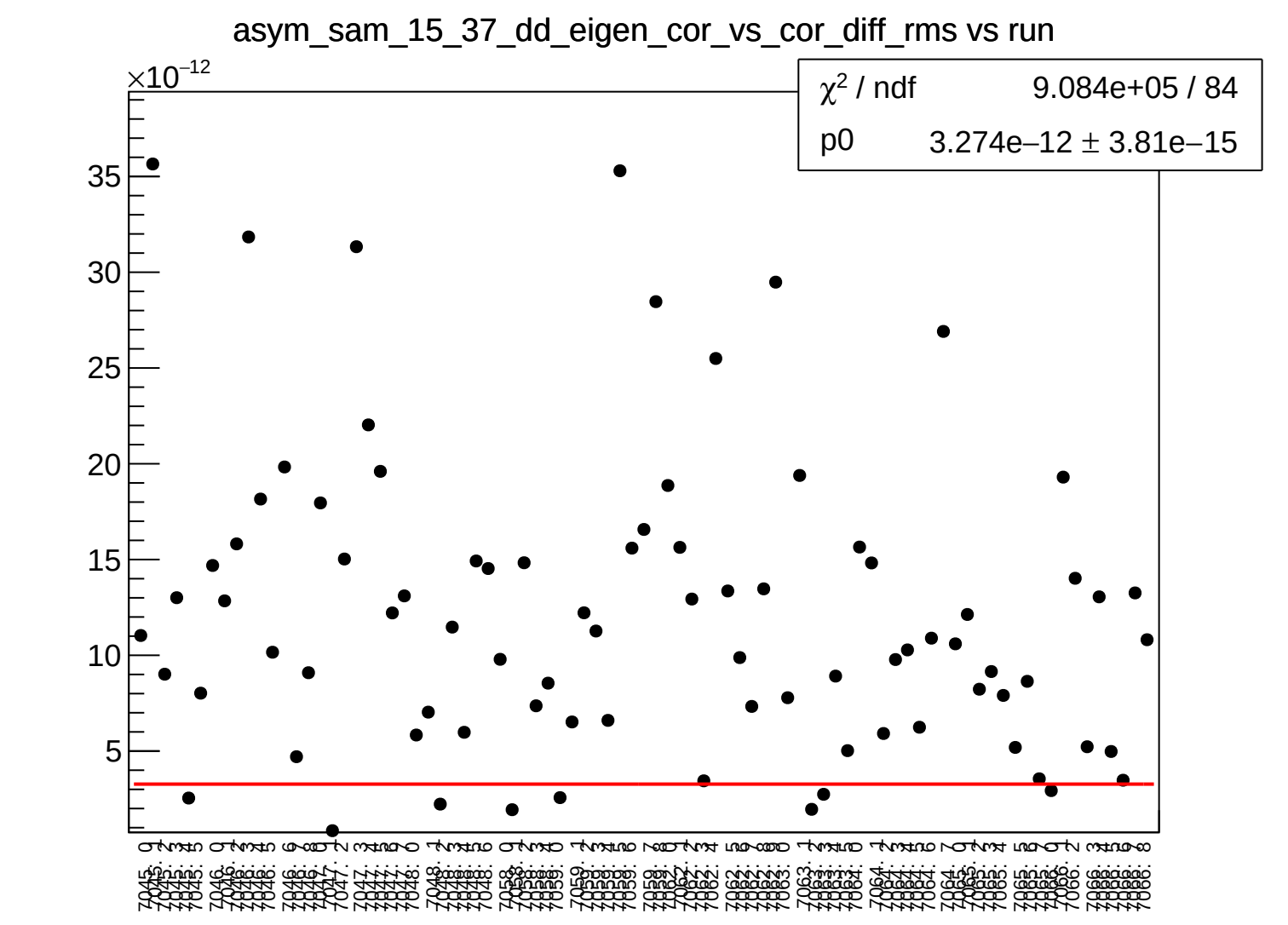

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.56 / 84
p0 −0.03213 ± 0.01409
pull
Entries 85
Mean 1519
Std Dev 0

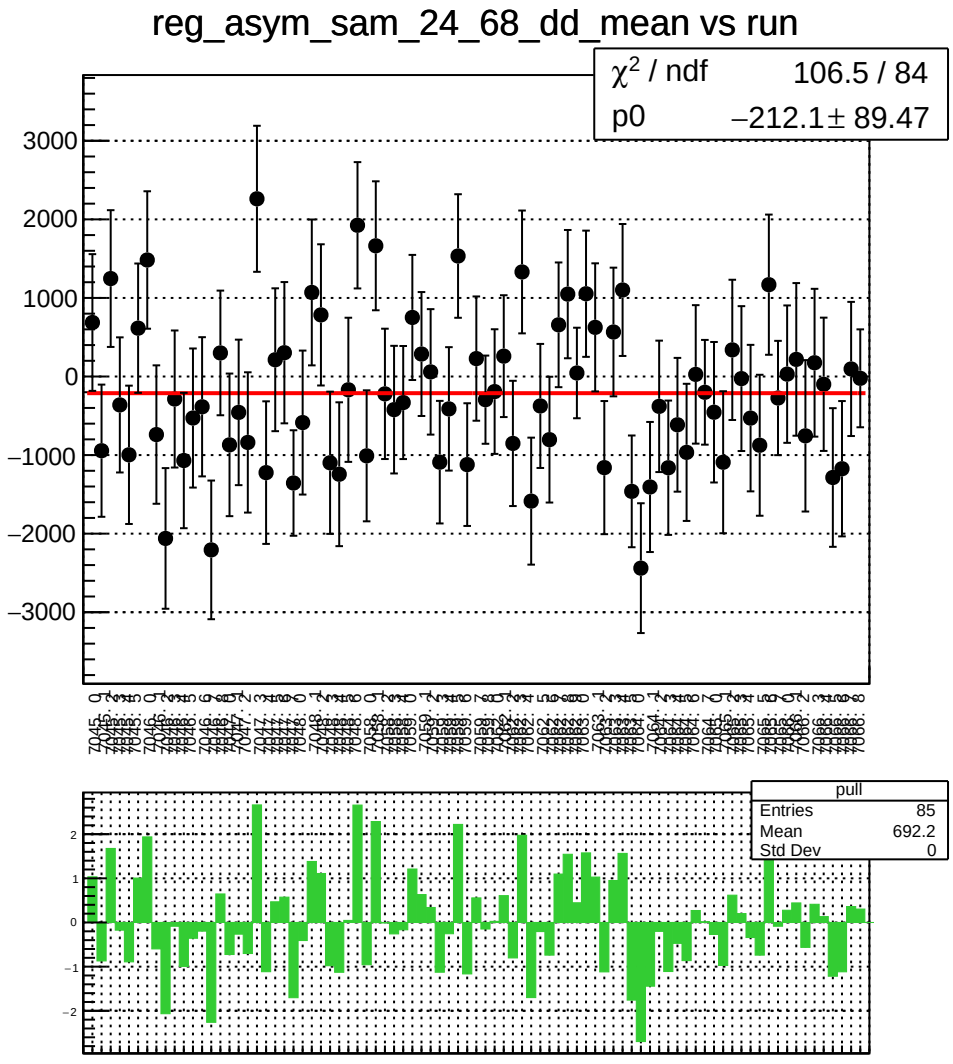

pull1D
Entries 85
Mean −0.003124
Std Dev 0.9428

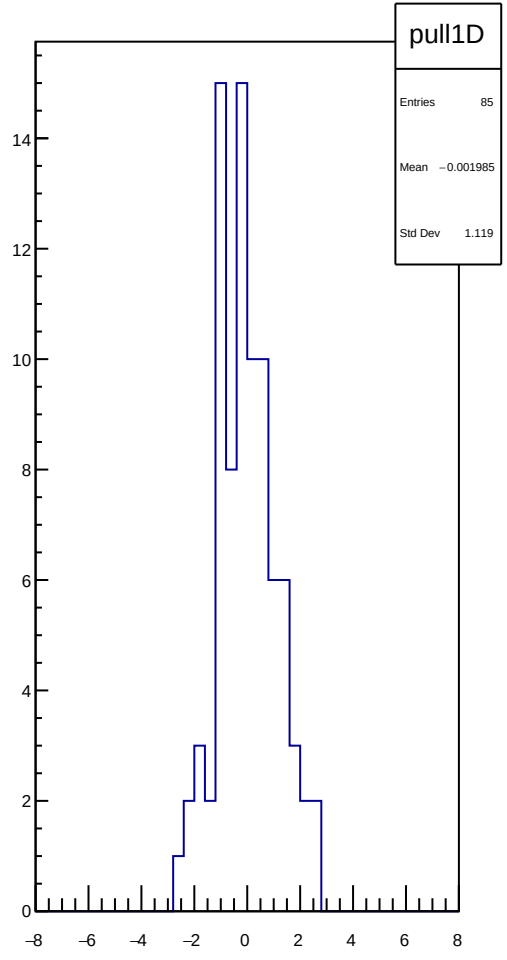

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.331e+05 / 84
p0 12.26 ± 0.009961
40
35
30
25
20
15
10

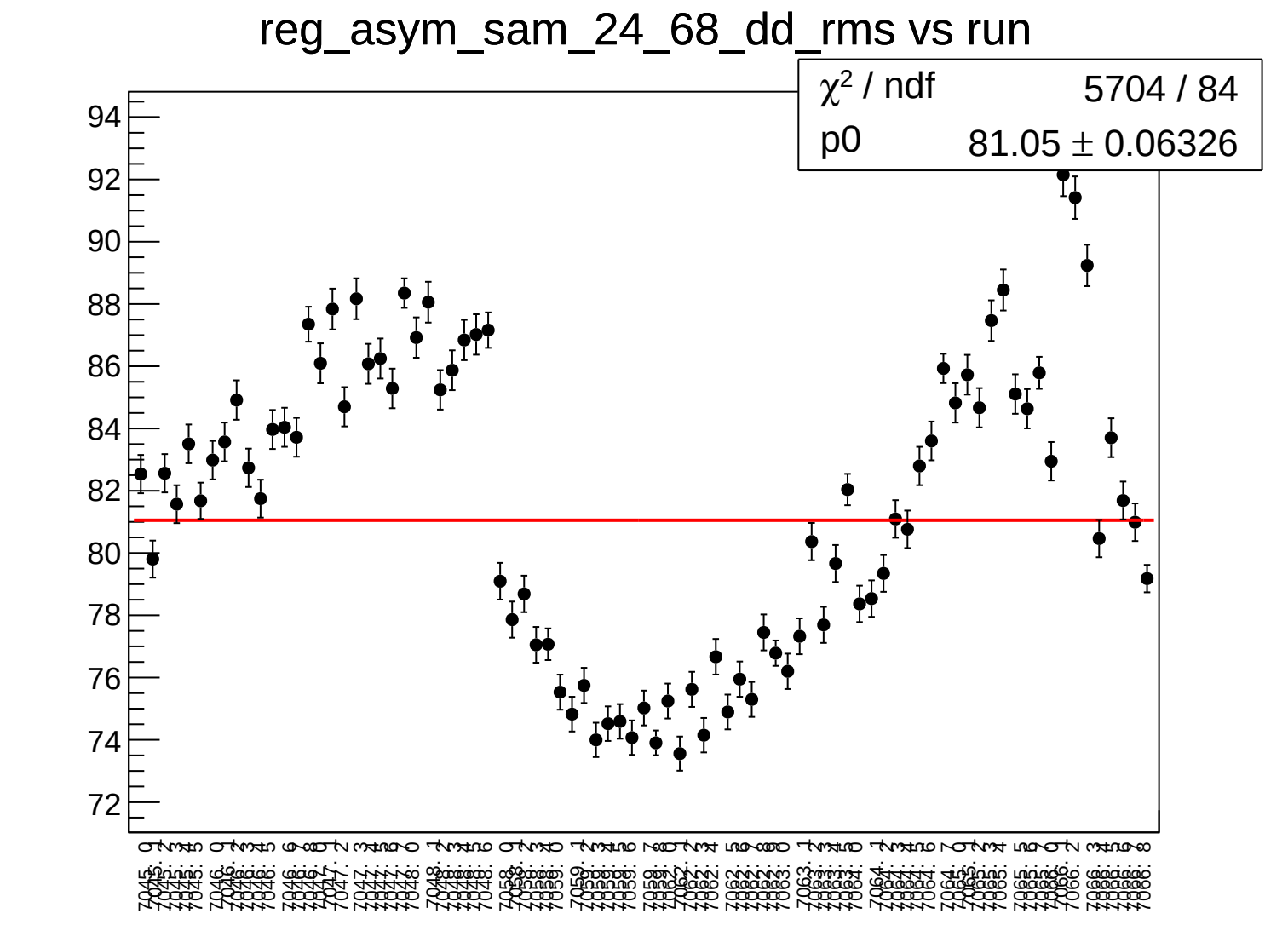

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.9 / 84
p0 −1.644e−15 ± 5.387e−15
pull
Entries 85
Mean 101.1
Std Dev 0

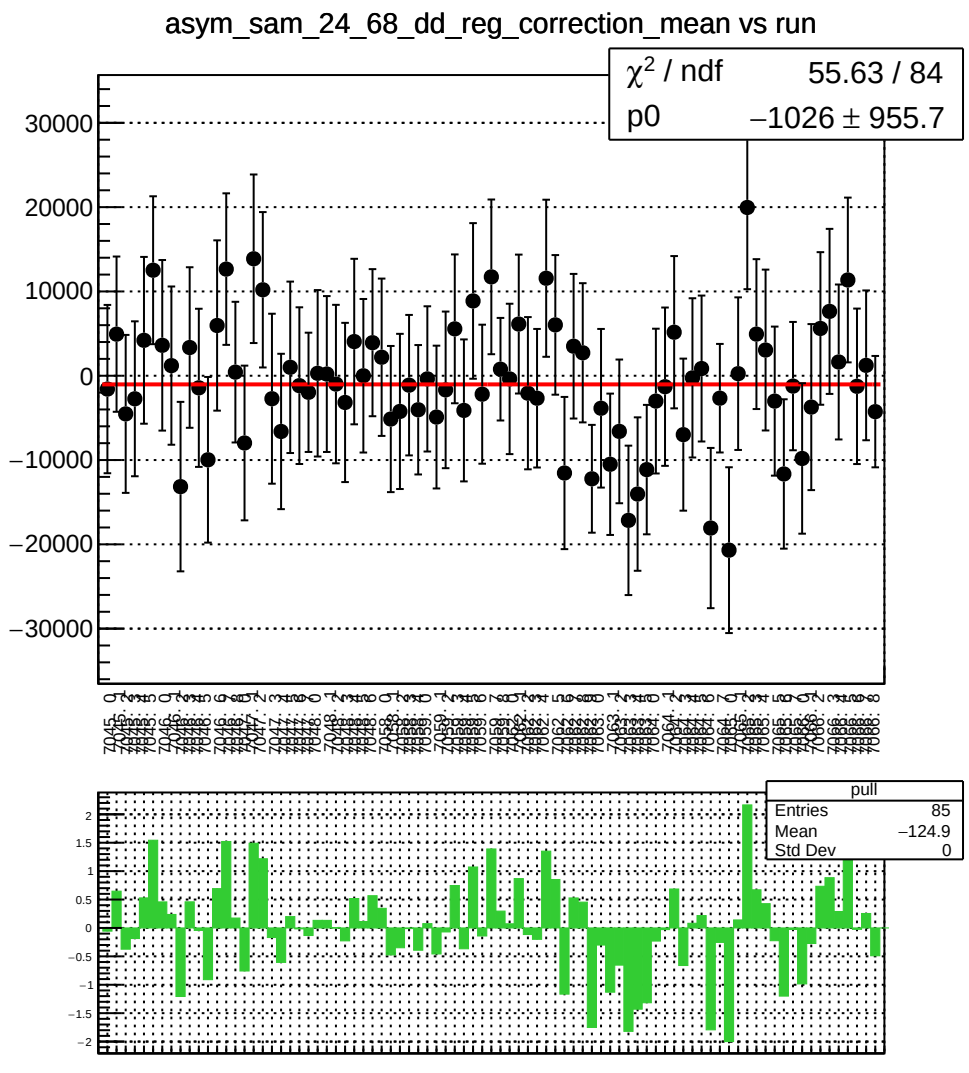

pull1D
Entries 85
Mean 0.04205
Std Dev 1.004

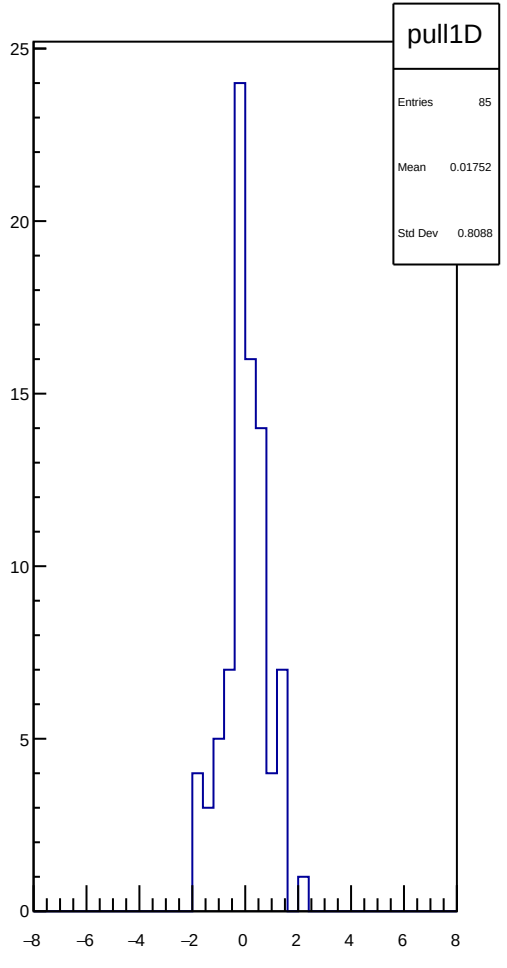

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.084e+05 / 84
p0 3.274e−12 ± 3.81e−15
35
30
25
20
15
10
5

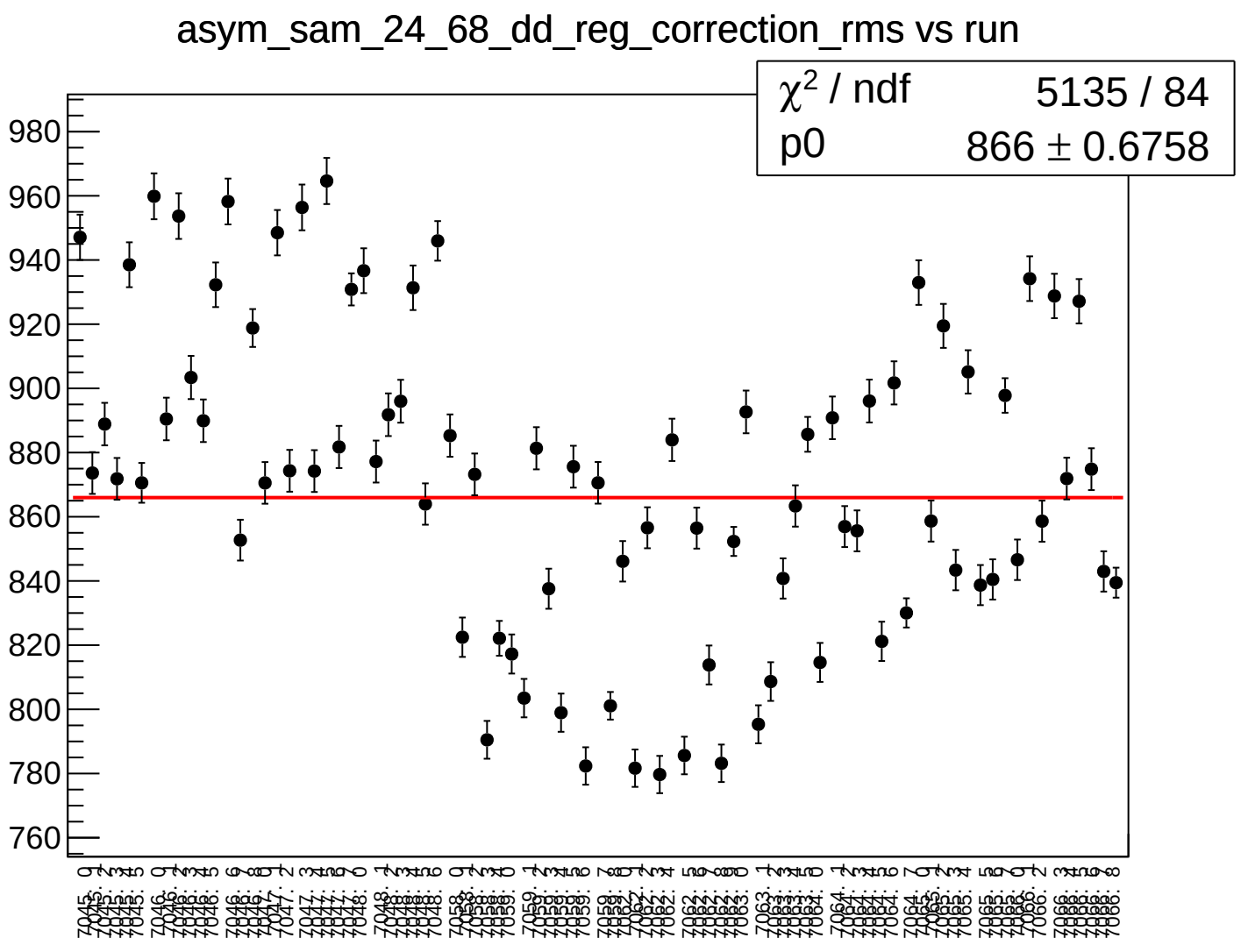

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.5 / 84
p0 −212.1± 89.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 692.2
Std Dev 0
2
1
0
−1
−2

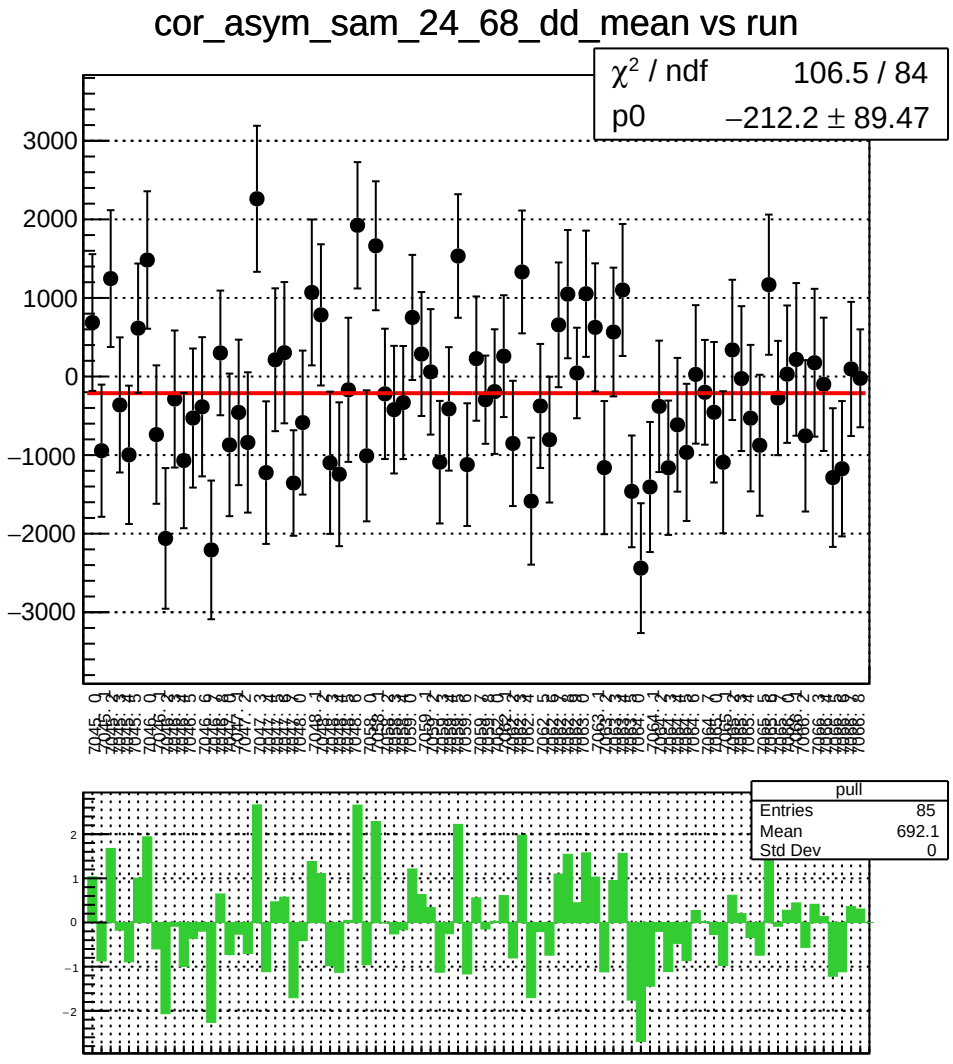

pull1D
Entries 85
Mean −0.001985
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

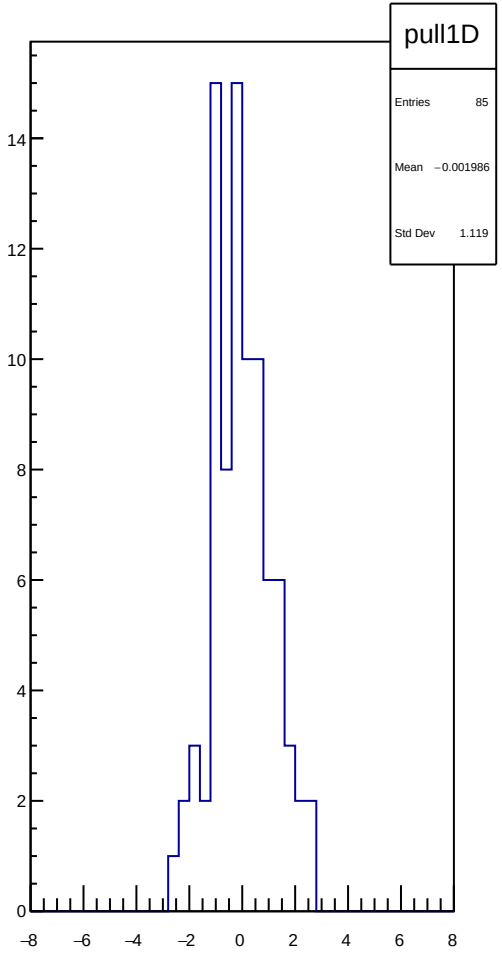

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5704 / 84
p0 81.05 ± 0.06326
94
92
90
88
86
84
82
80
78
76
74
72

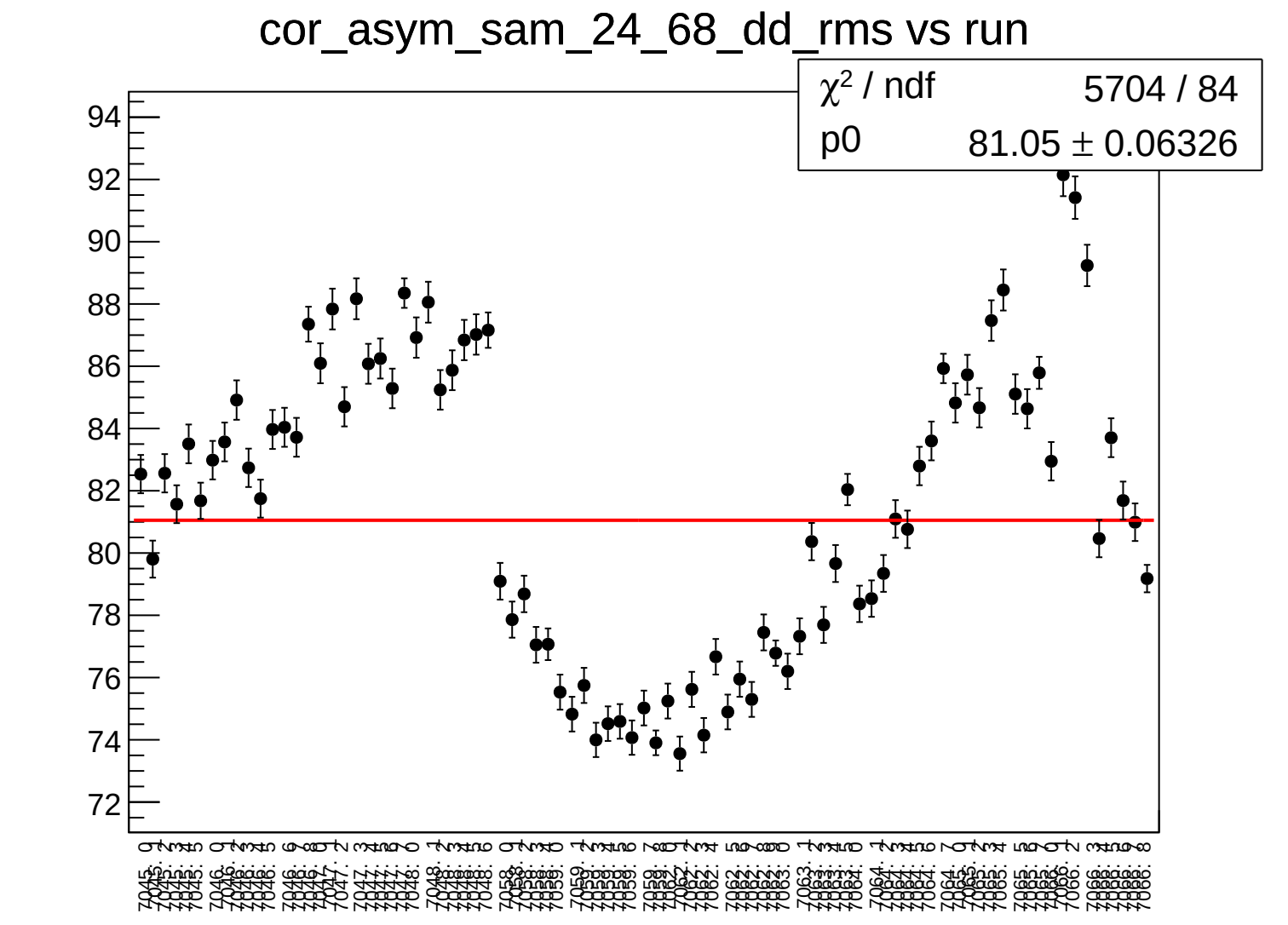

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 55.63 / 84
p0 −1026 ± 955.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

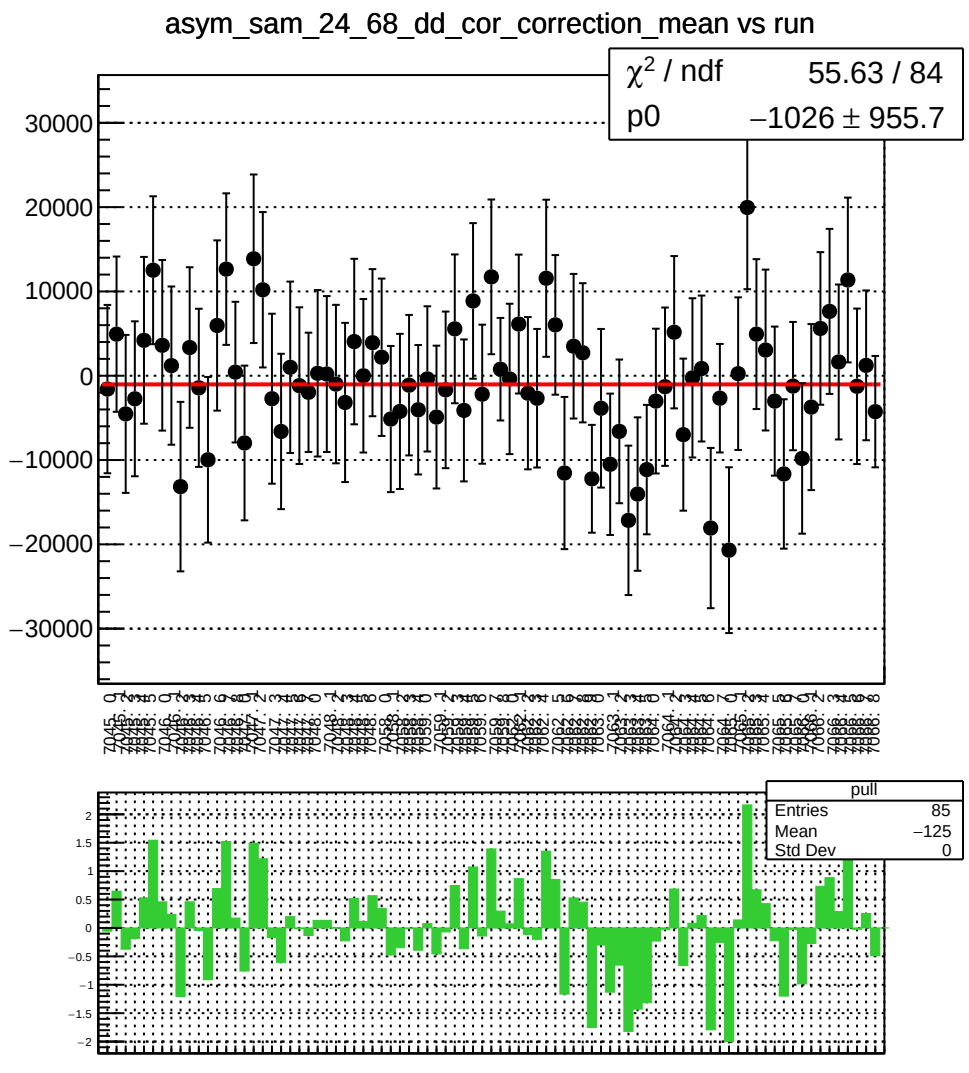

pull1D
Entries 85
Mean 0.01752
Std Dev 0.8088
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

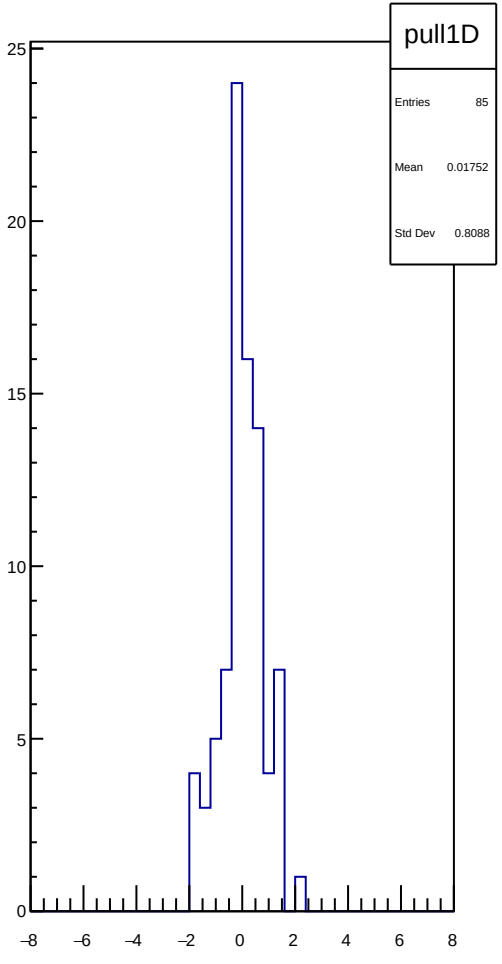

asym_sam_24_68_dd_reg_correction_rms vs run
χ^2 / ndf 5135 / 84
p0 866 ± 0.6758
980
960
940
920
900
880
860
840
820
800
780
760

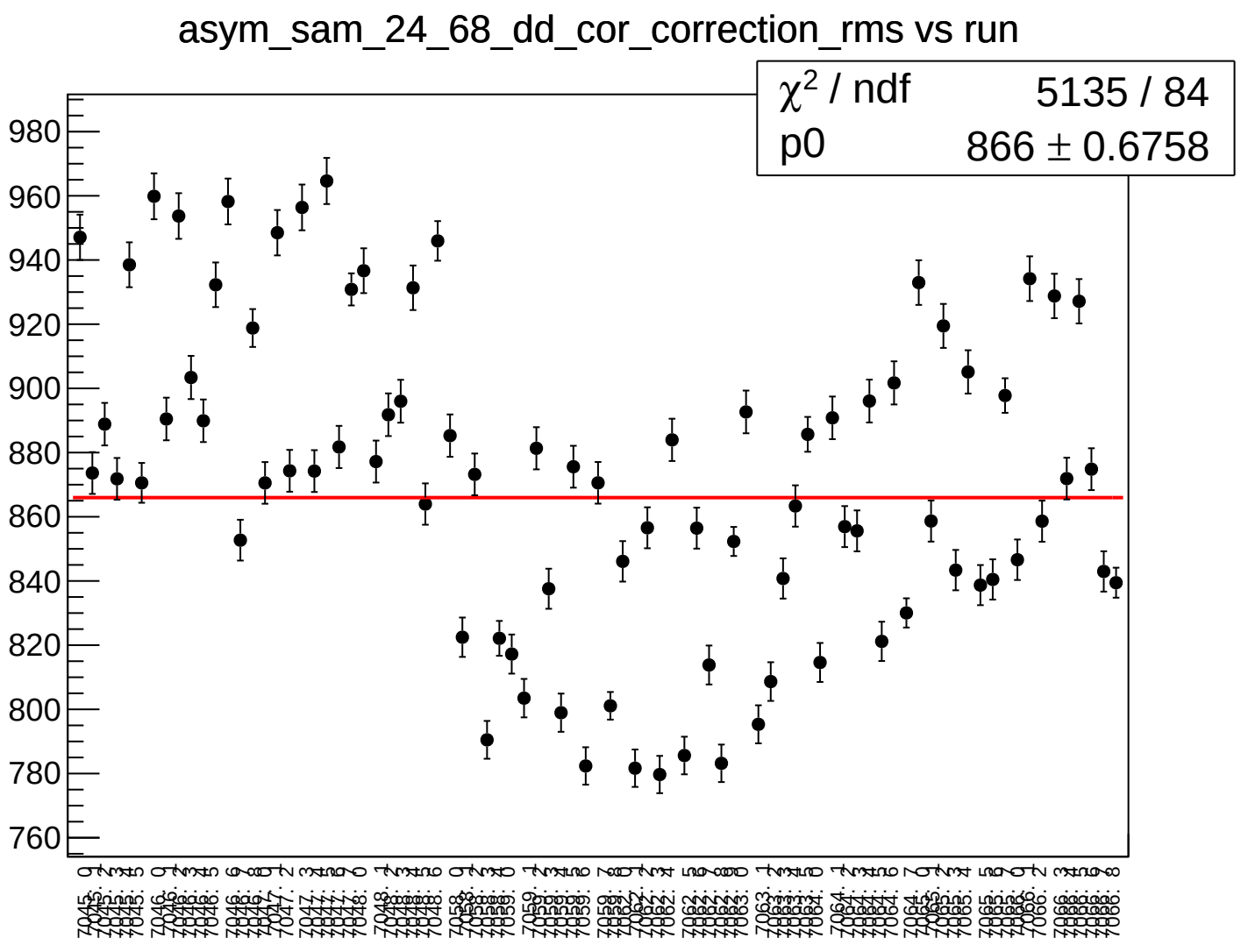

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.5 / 84
p0 −212.2 ± 89.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 692.1
Std Dev 0
2
1
0
−1
−2

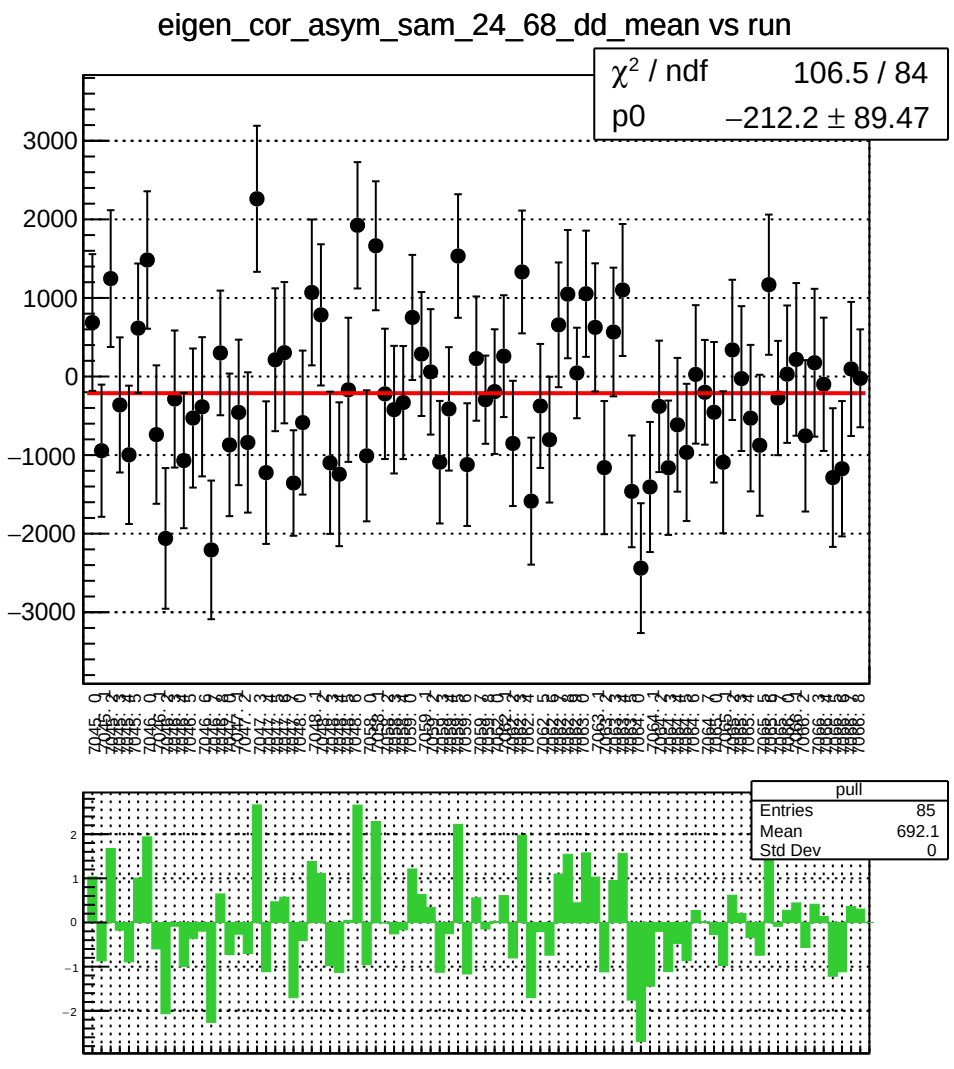

pull1D
Entries 85
Mean −0.001986
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

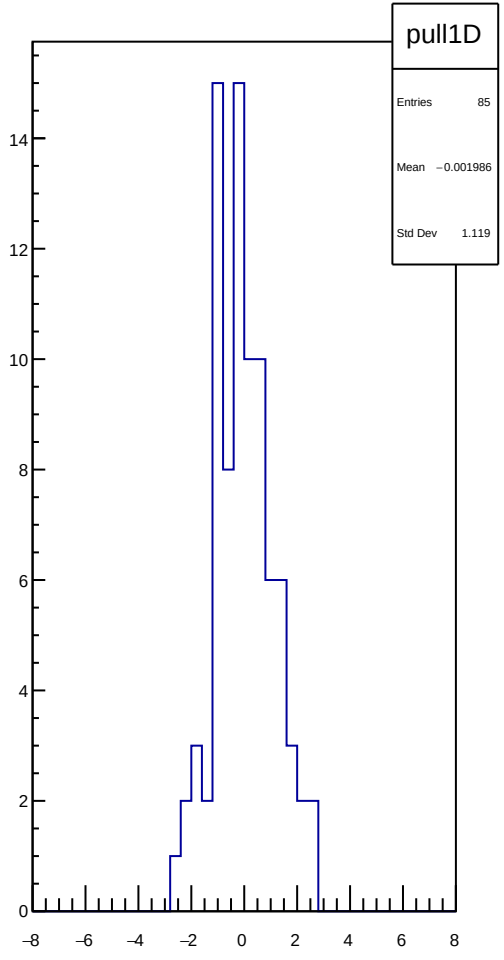

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5704 / 84
p0 81.05 ± 0.06326
94
92
90
88
86
84
82
80
78
76
74
72

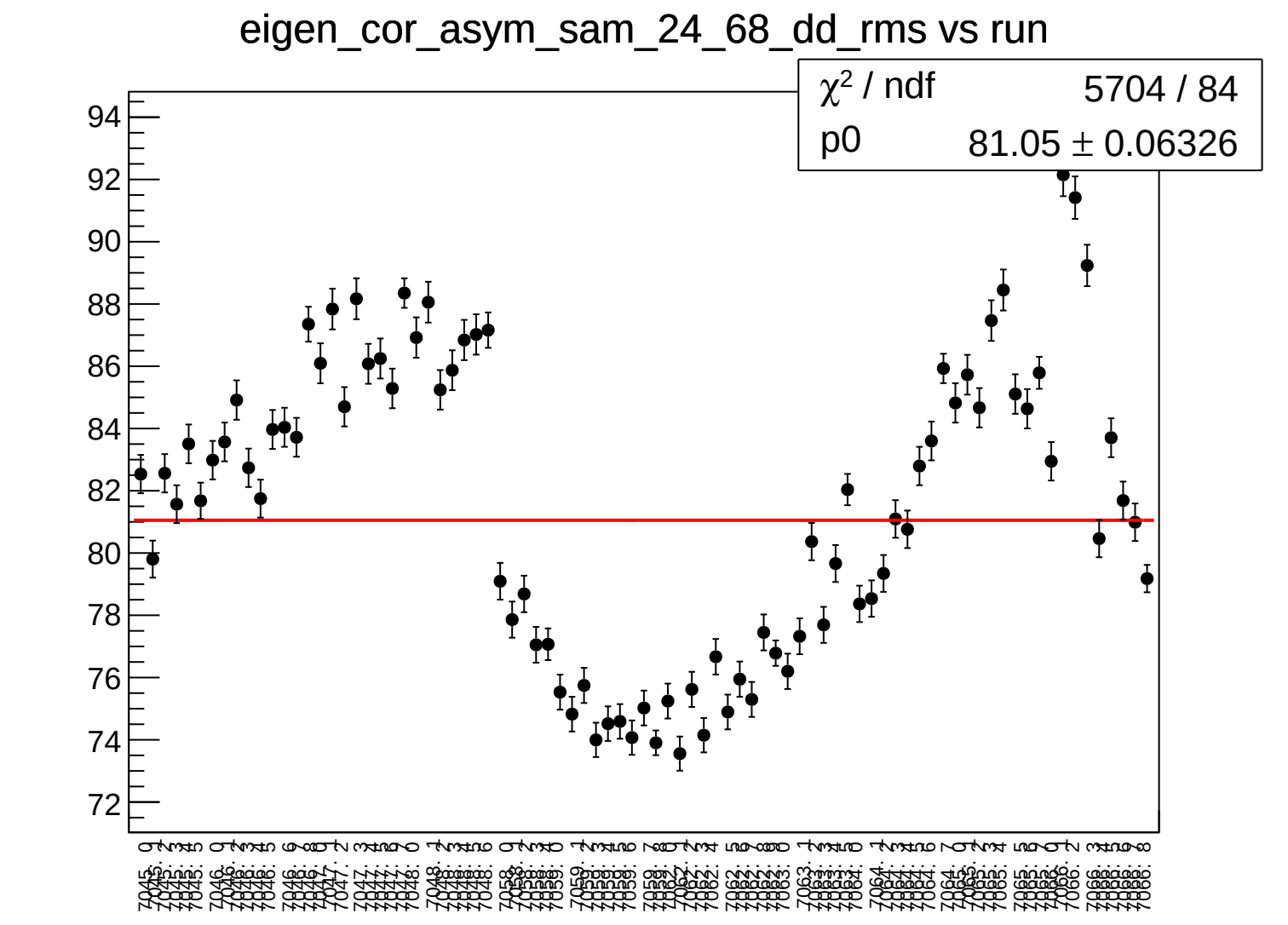

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 55.63 / 84
p0 −1026 ± 955.7
pull
Entries 85
Mean −125
Std Dev 0

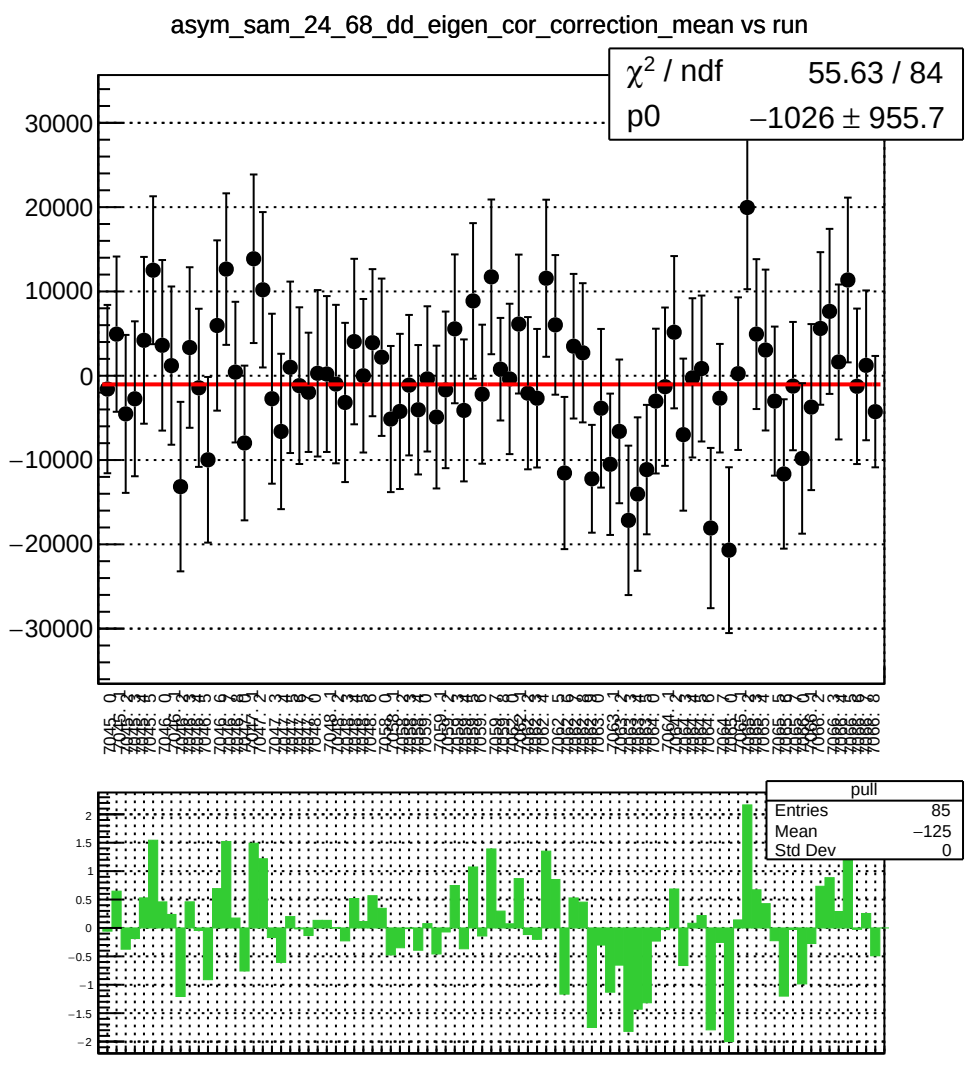

pull1D
Entries 85
Mean 0.01752
Std Dev 0.8088

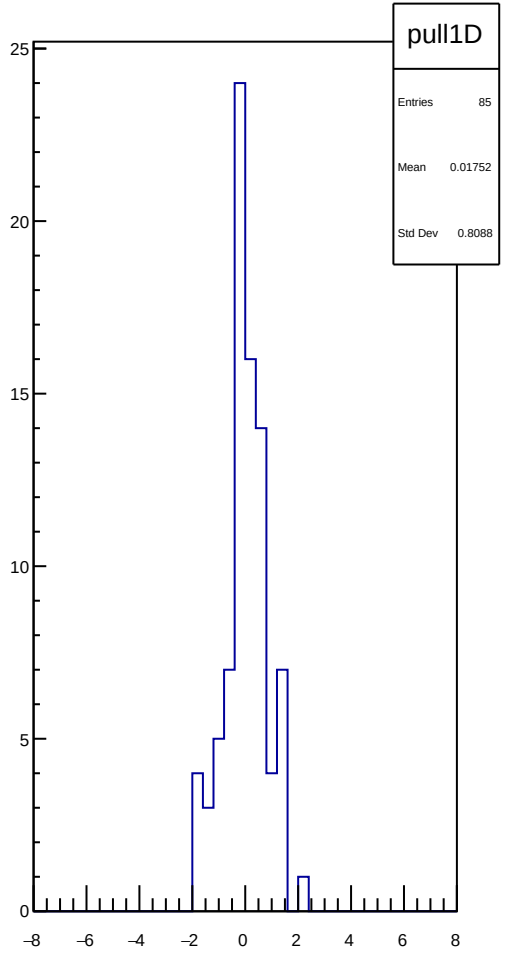

asym_sam_24_68_dd_cor_correction_rms vs run
χ^2 / ndf 5135 / 84
p0 866 ± 0.6758
980
960
940
920
900
880
860
840
820
800
780
760

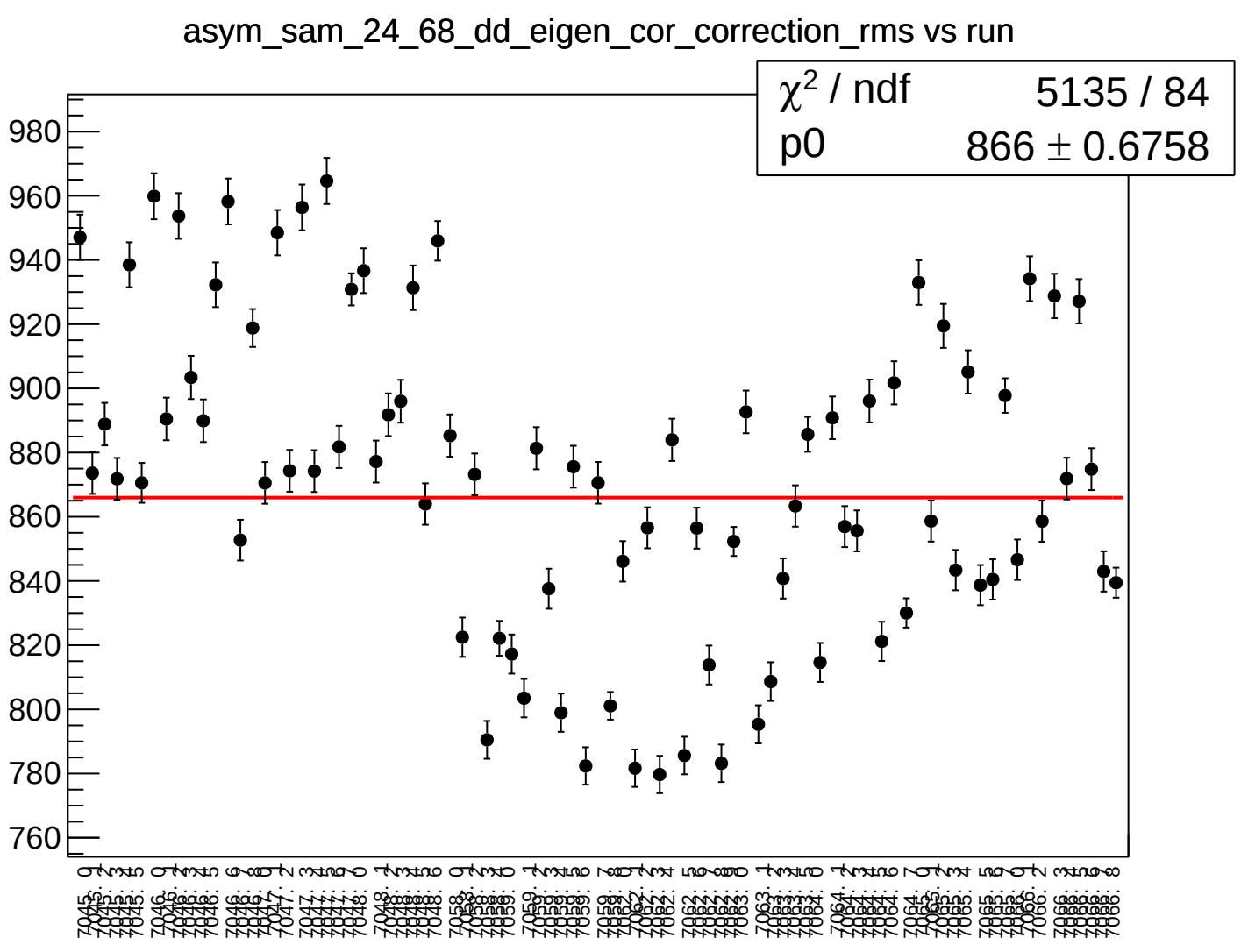

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.5 / 84
p0 −212.2 ± 89.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 692.1
Std Dev 0
2
1
0
−1
−2

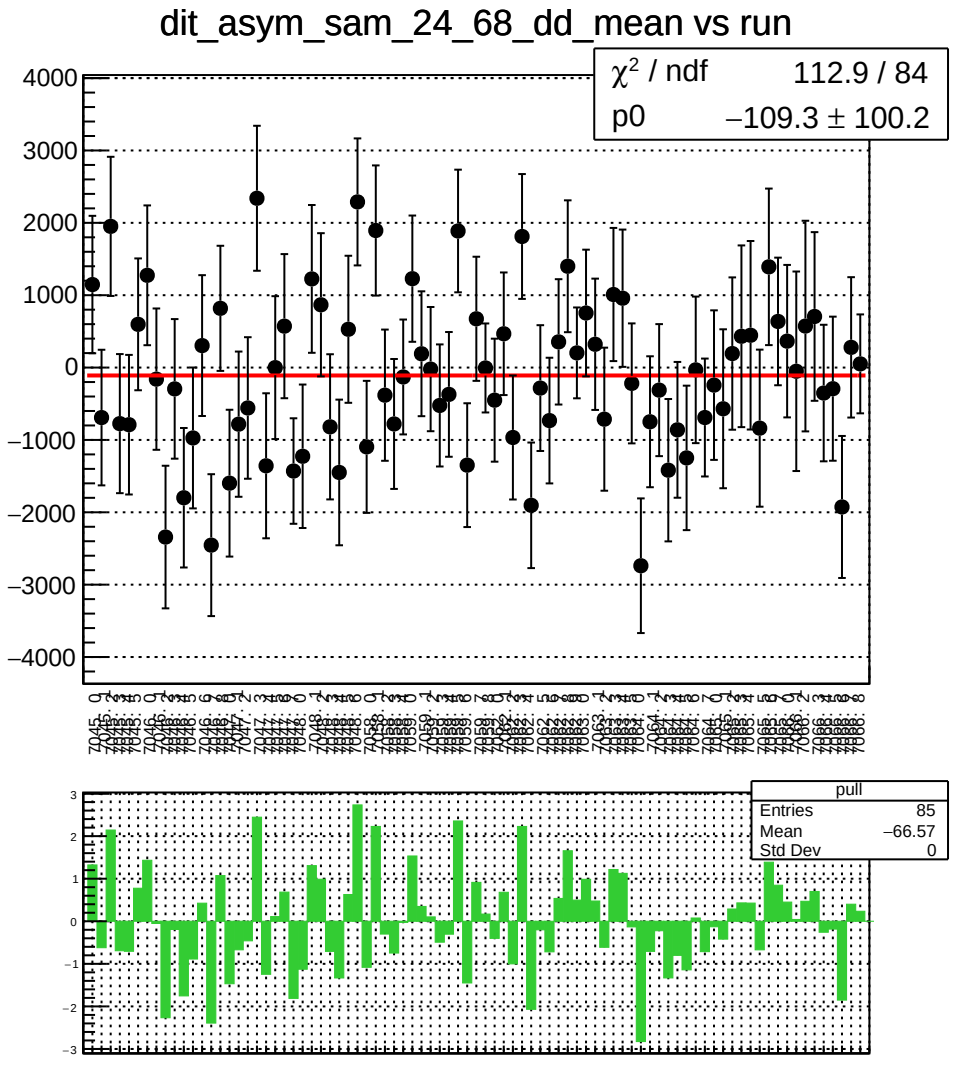

pull1D
Entries 85
Mean −0.001986
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

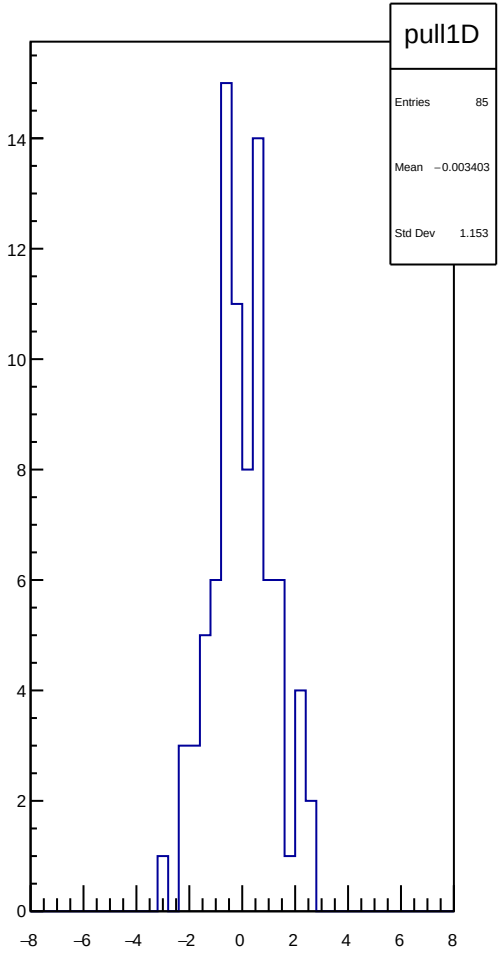

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5704 / 84
p0 81.05 ± 0.06326
94
92
90
88
86
84
82
80
78
76
74
72

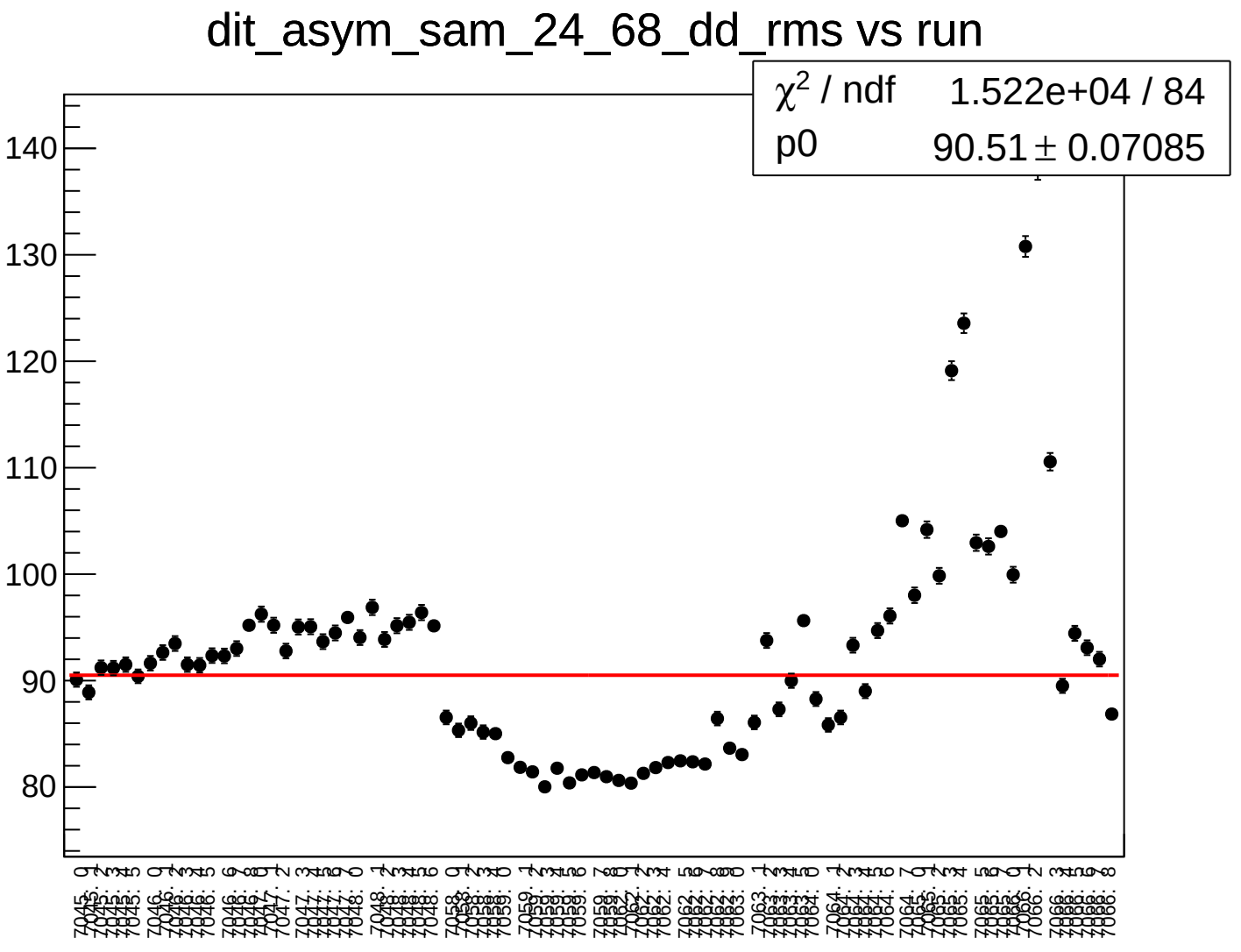

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 55.63 / 84
p0 −1026 ± 955.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

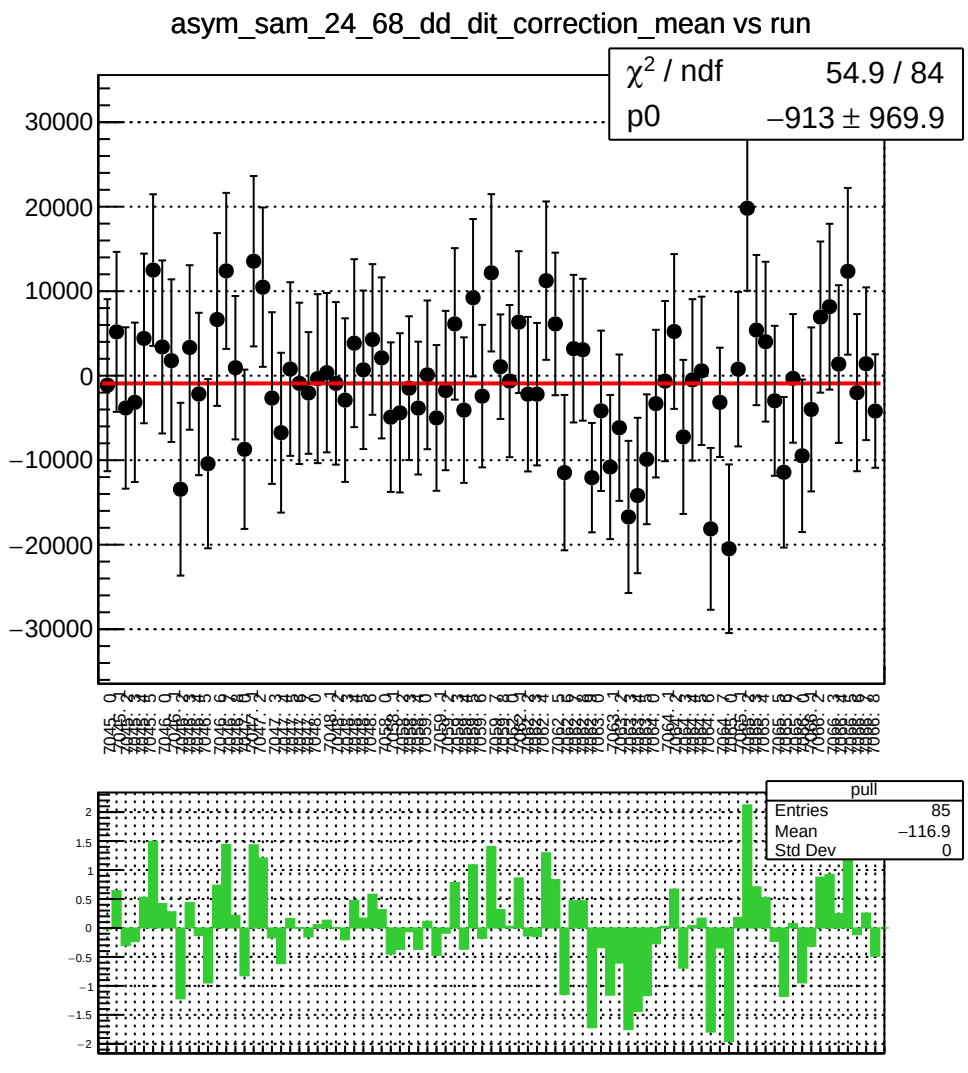

pull1D
Entries 85
Mean 0.01752
Std Dev 0.8088
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

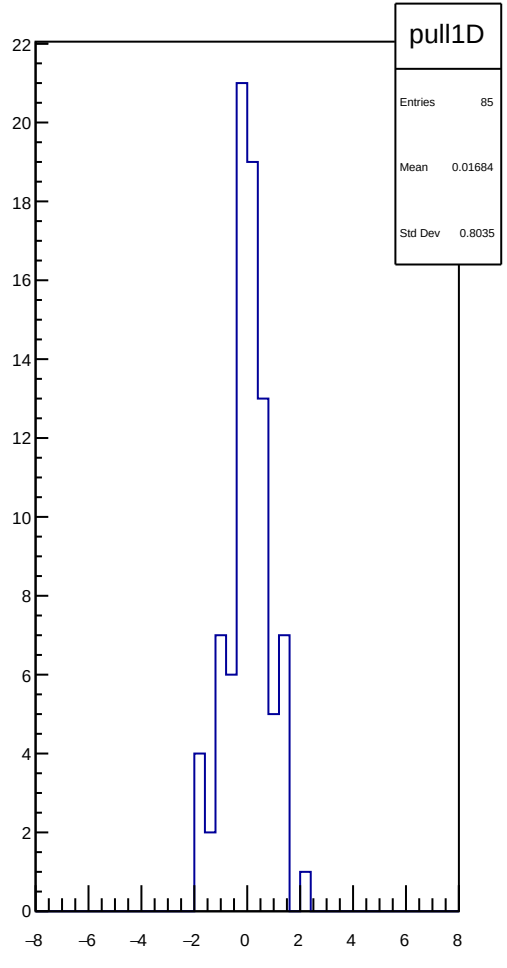

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5135 / 84
p0 866 ± 0.6758
980
960
940
920
900
880
860
840
820
800
780
760

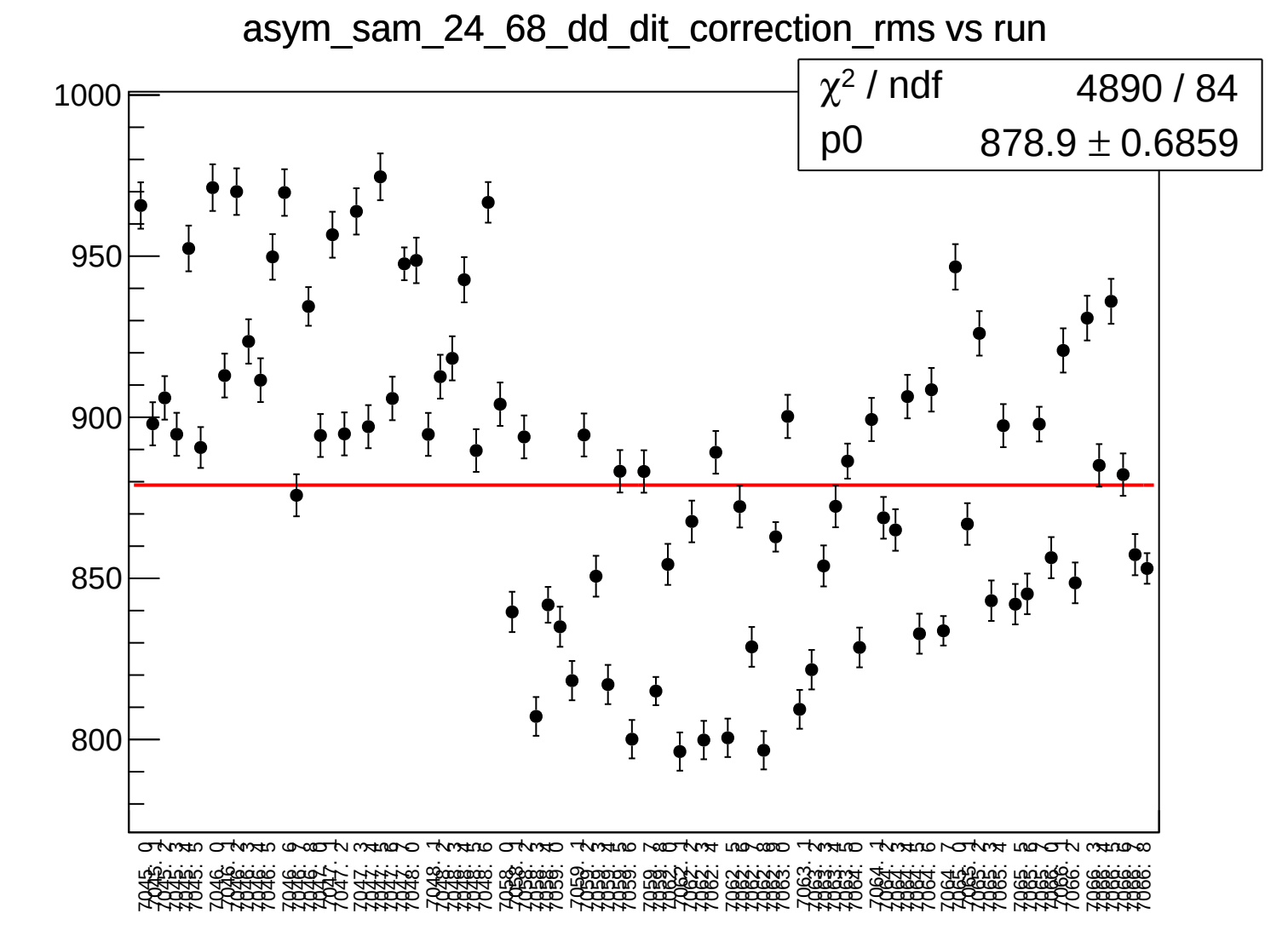

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 112.9 / 84
p0 −109.3 ± 100.2
pull
Entries 85
Mean −66.57
Std Dev 0

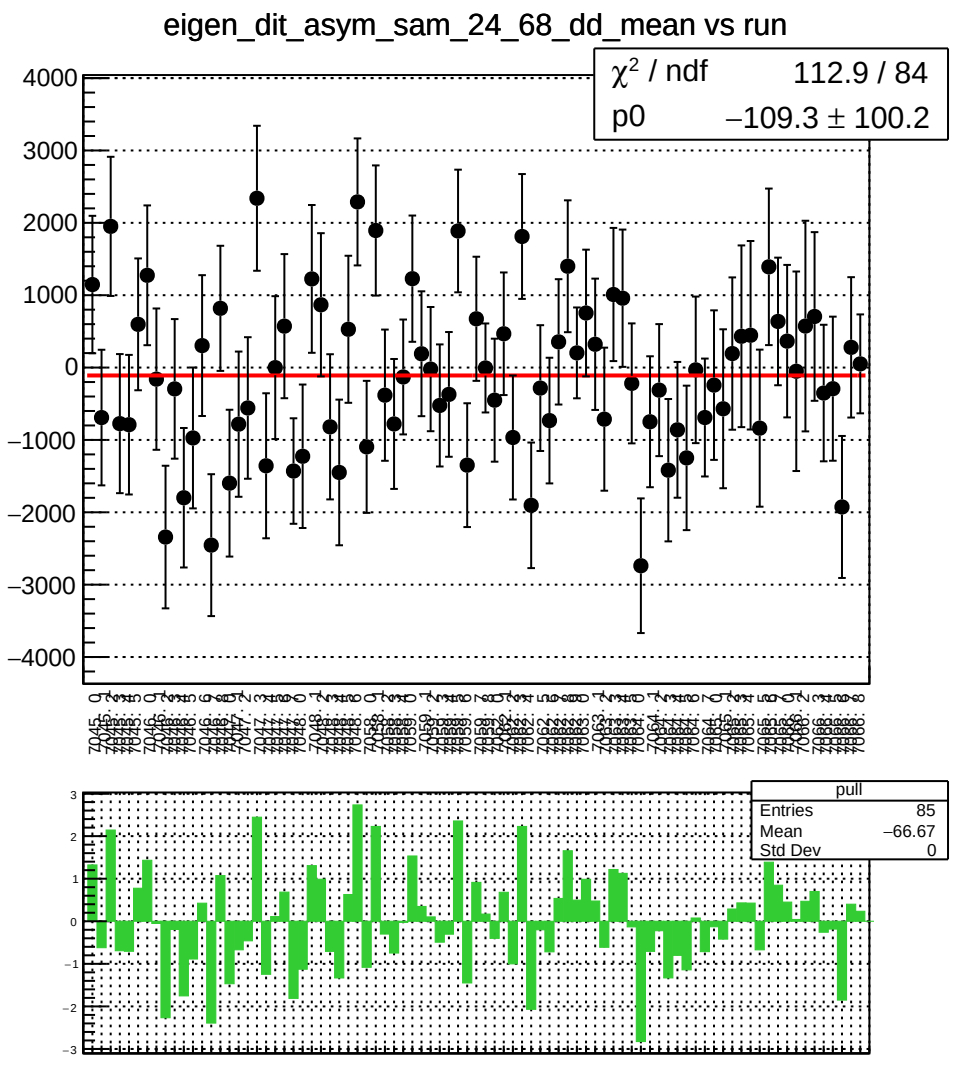

pull1D
Entries 85
Mean −0.003403
Std Dev 1.153

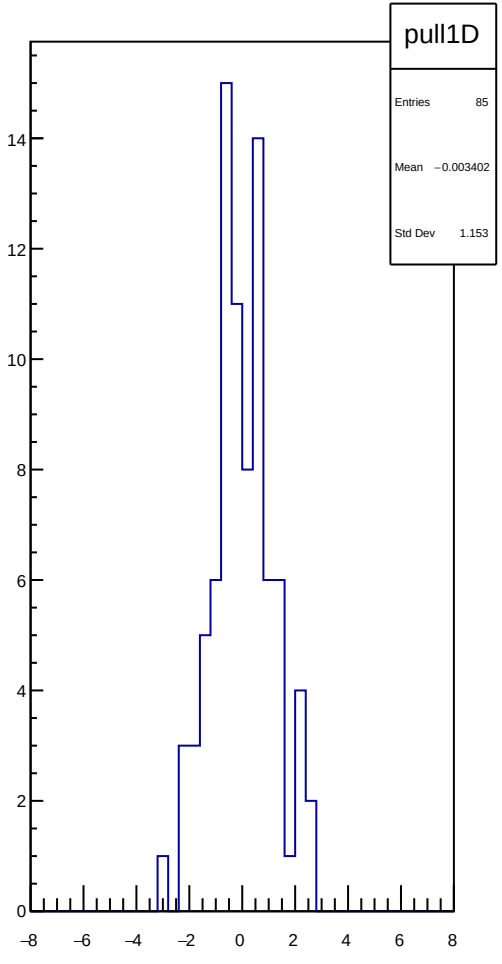

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.522e+04 / 84
p0 90.51 ± 0.07085
140
130
120
110
100
90
80

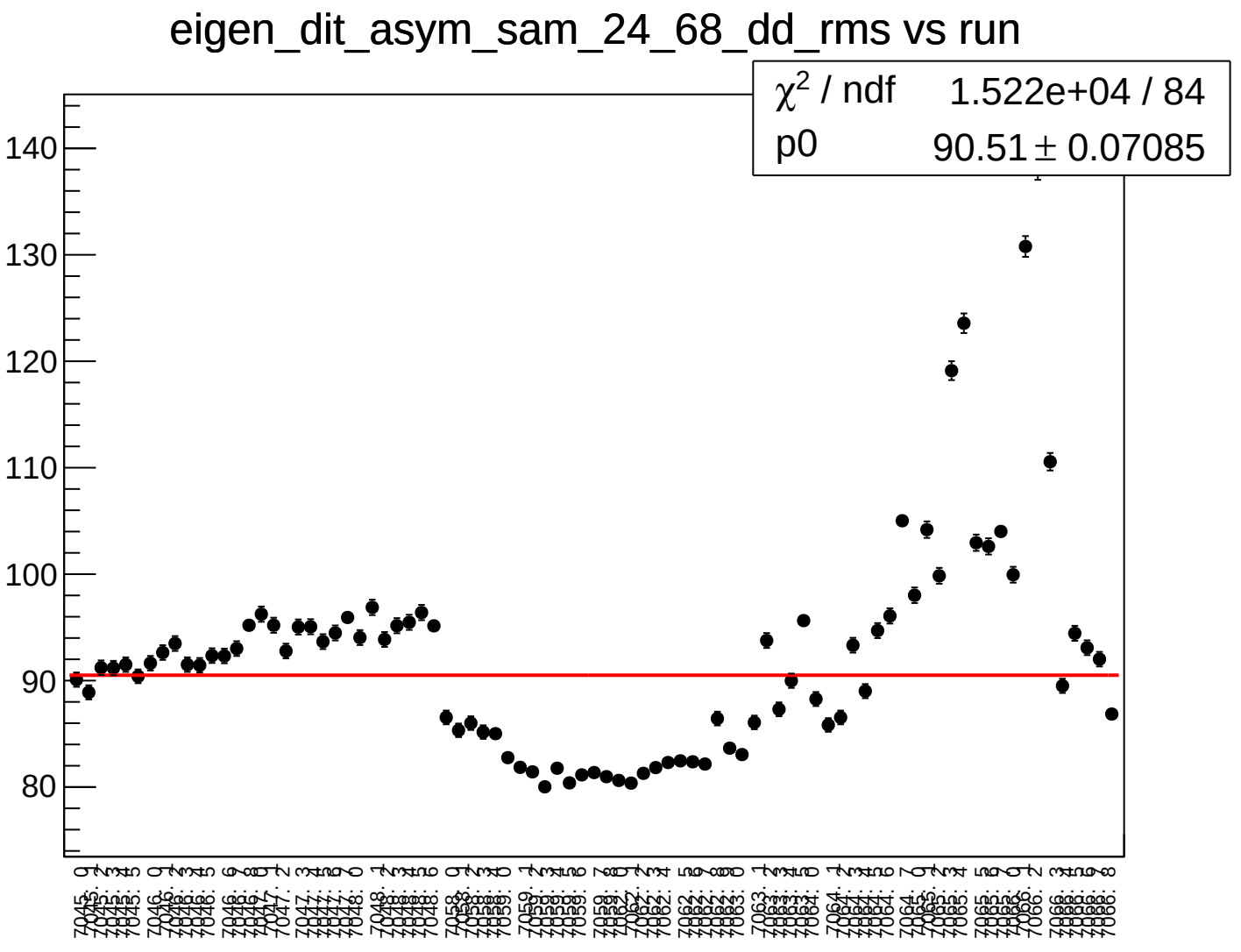

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 54.9 / 84
p0 −913 ± 969.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −116.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

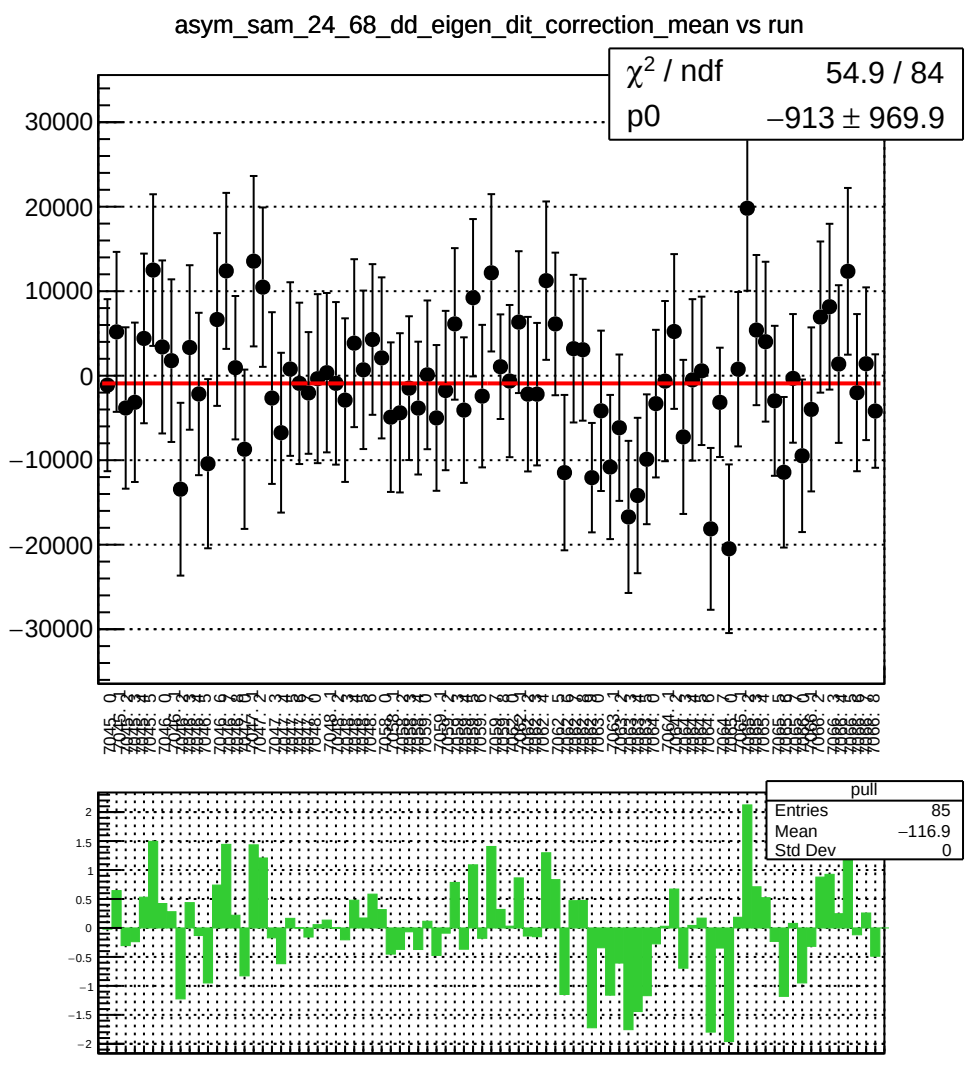

pull1D
Entries 85
Mean 0.01684
Std Dev 0.8035
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

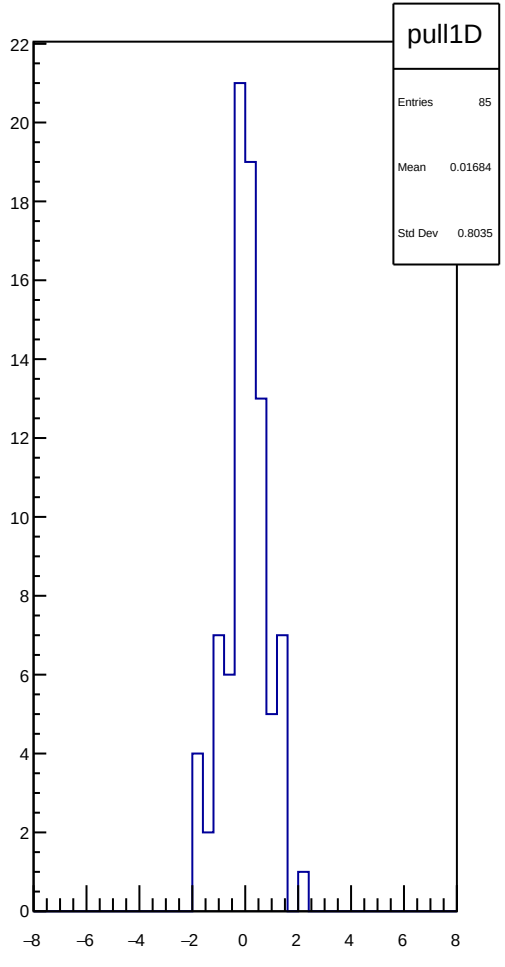

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4890 / 84
p0 878.9 ± 0.6859
1000
950
900
850
800

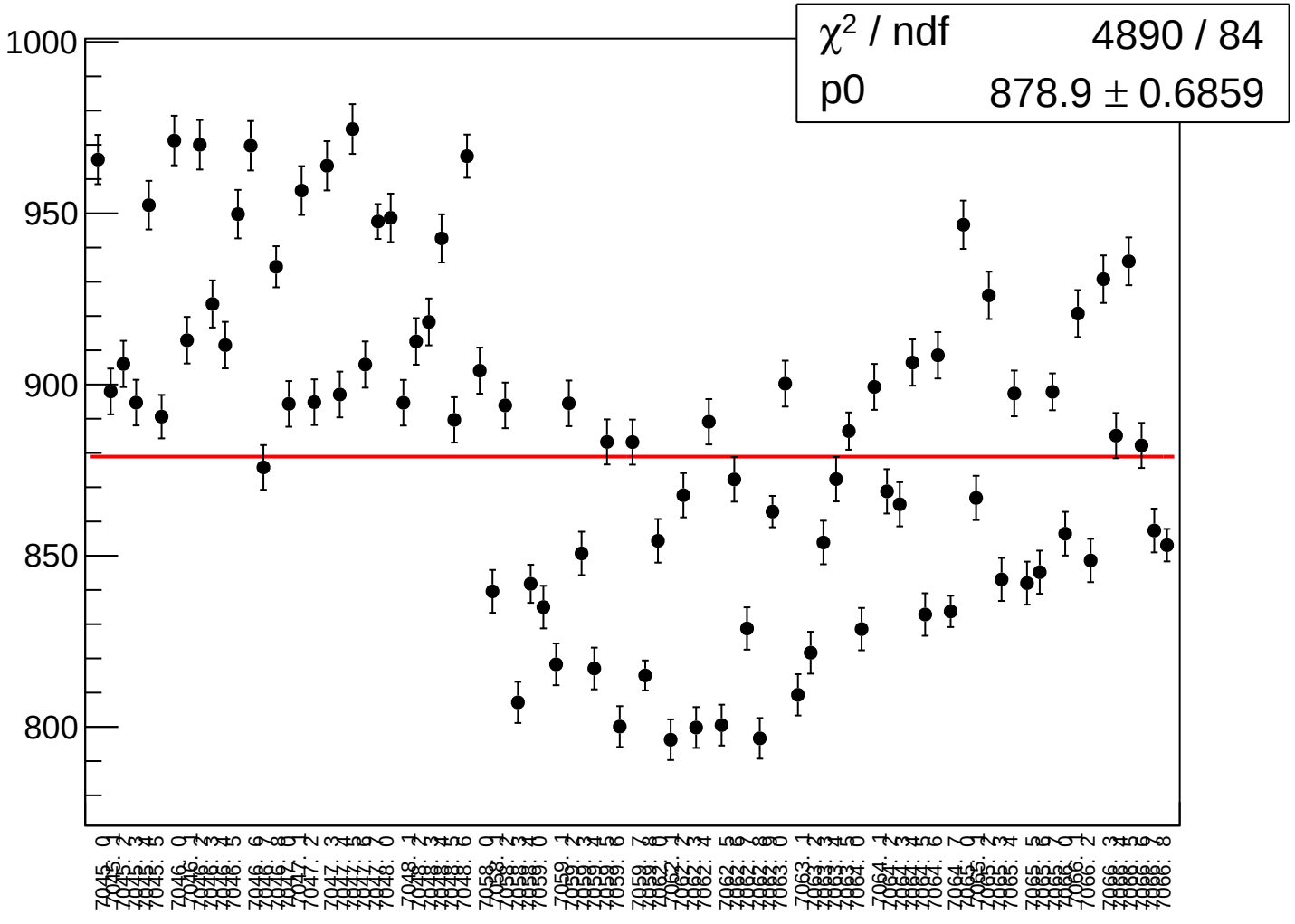

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 112.9 / 84
p0 −109.3 ± 100.2
pull
Entries 85
Mean −66.67
Std Dev 0

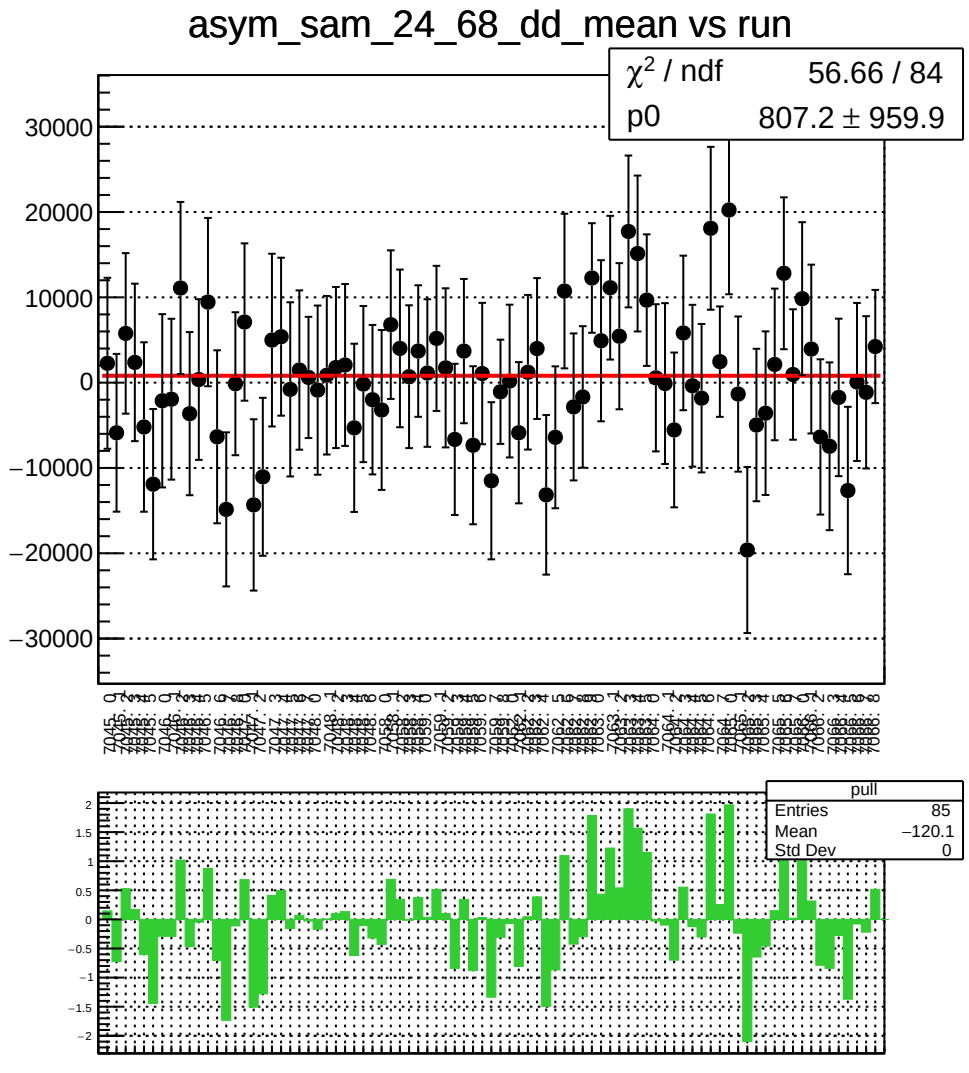

pull1D
Entries 85
Mean −0.003402
Std Dev 1.153

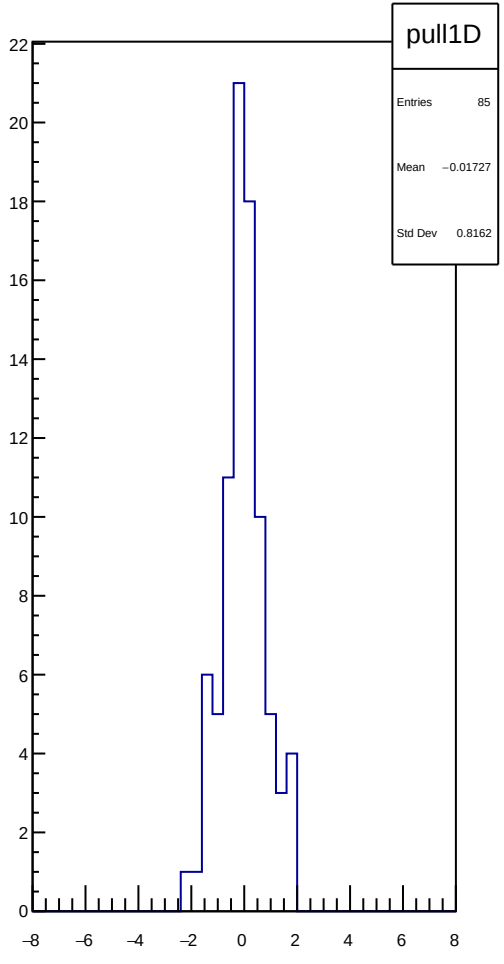

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.522e+04 / 84
p0 90.51 ± 0.07085
140
130
120
110
100
90
80

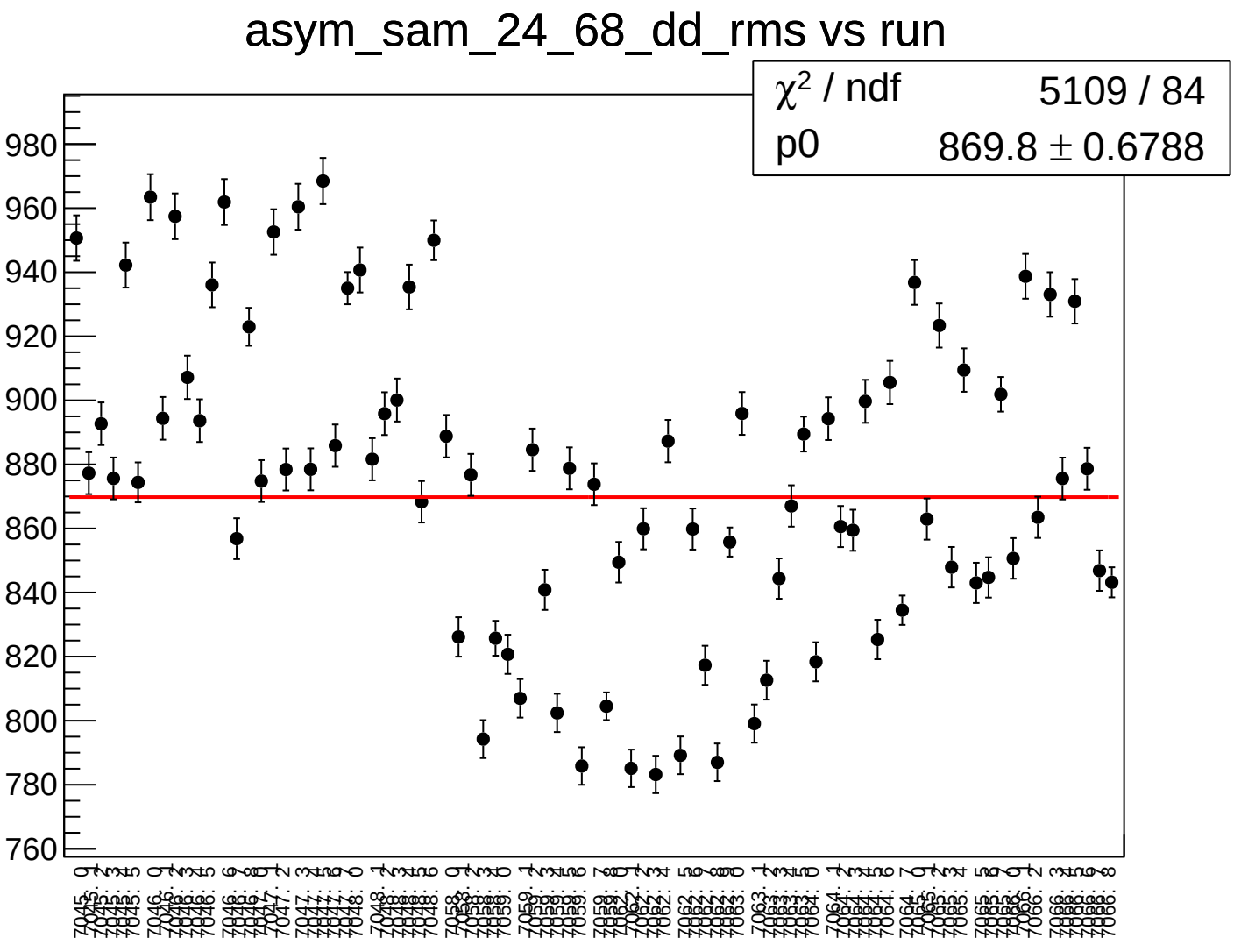

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 54.9 / 84
p0 −913 ± 969.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −116.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

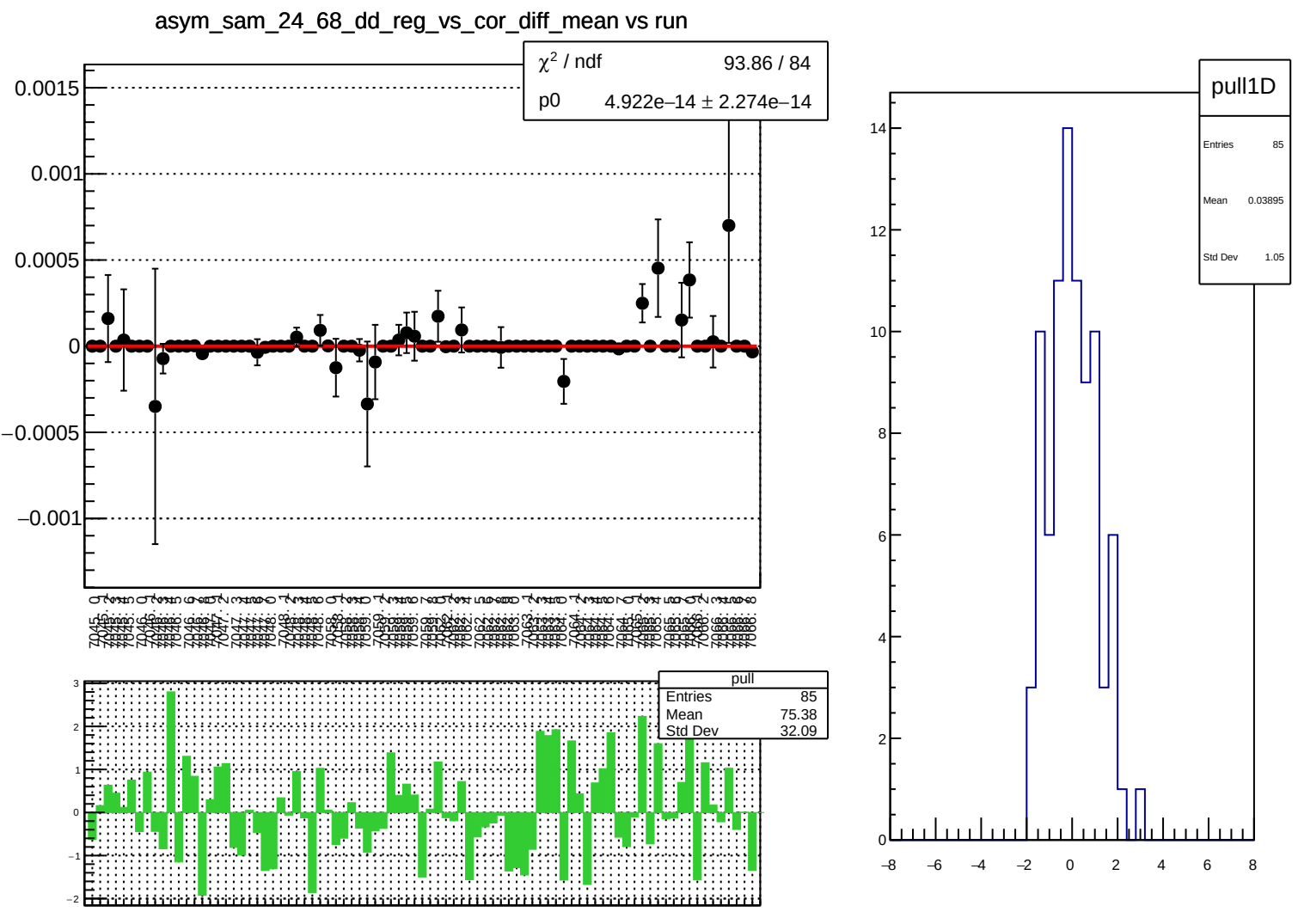

pull1D
Entries 85
Mean 0.01684
Std Dev 0.8035
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

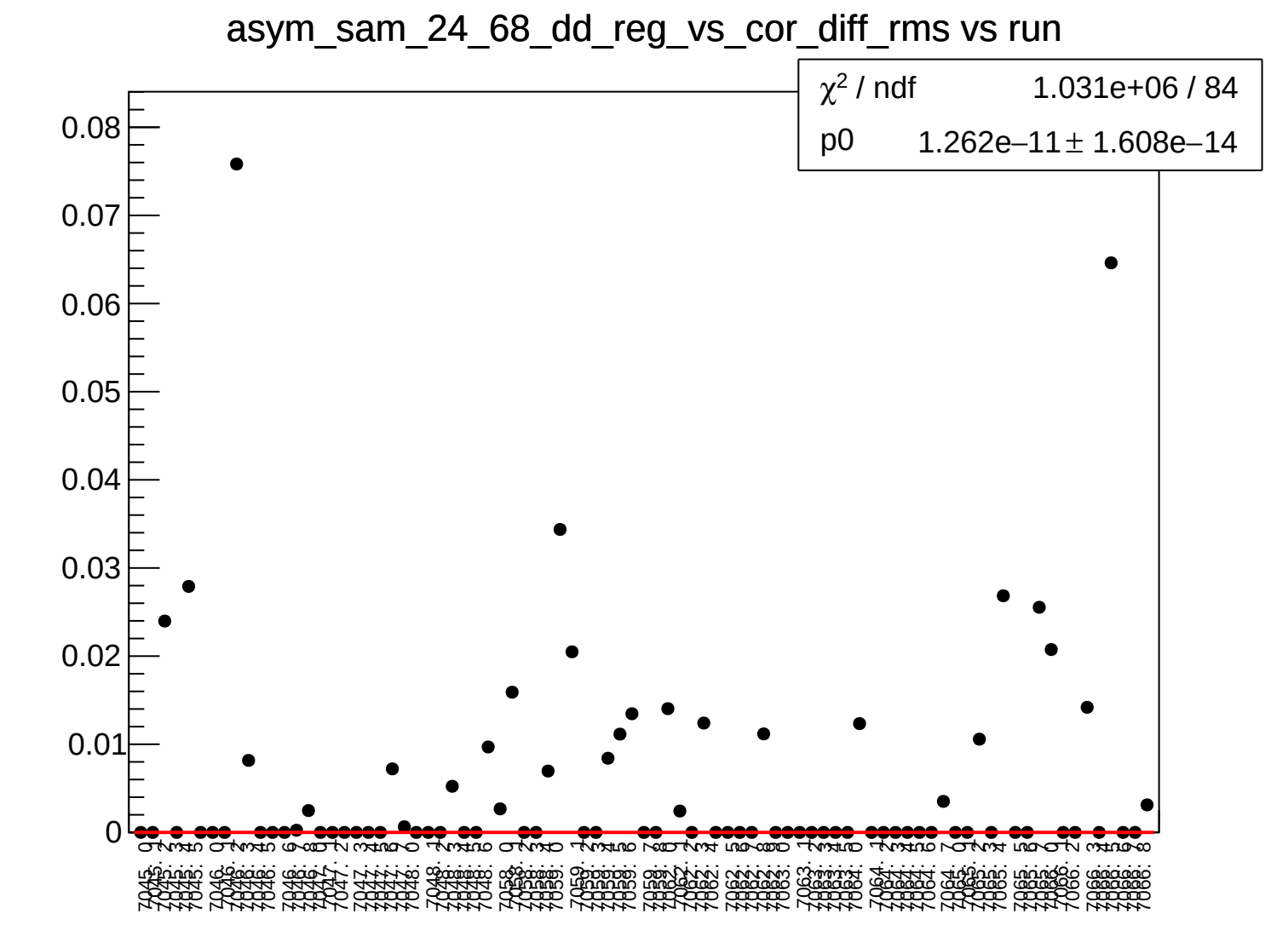

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4890 / 84
p0 878.9 ± 0.6859
1000
950
900
850
800

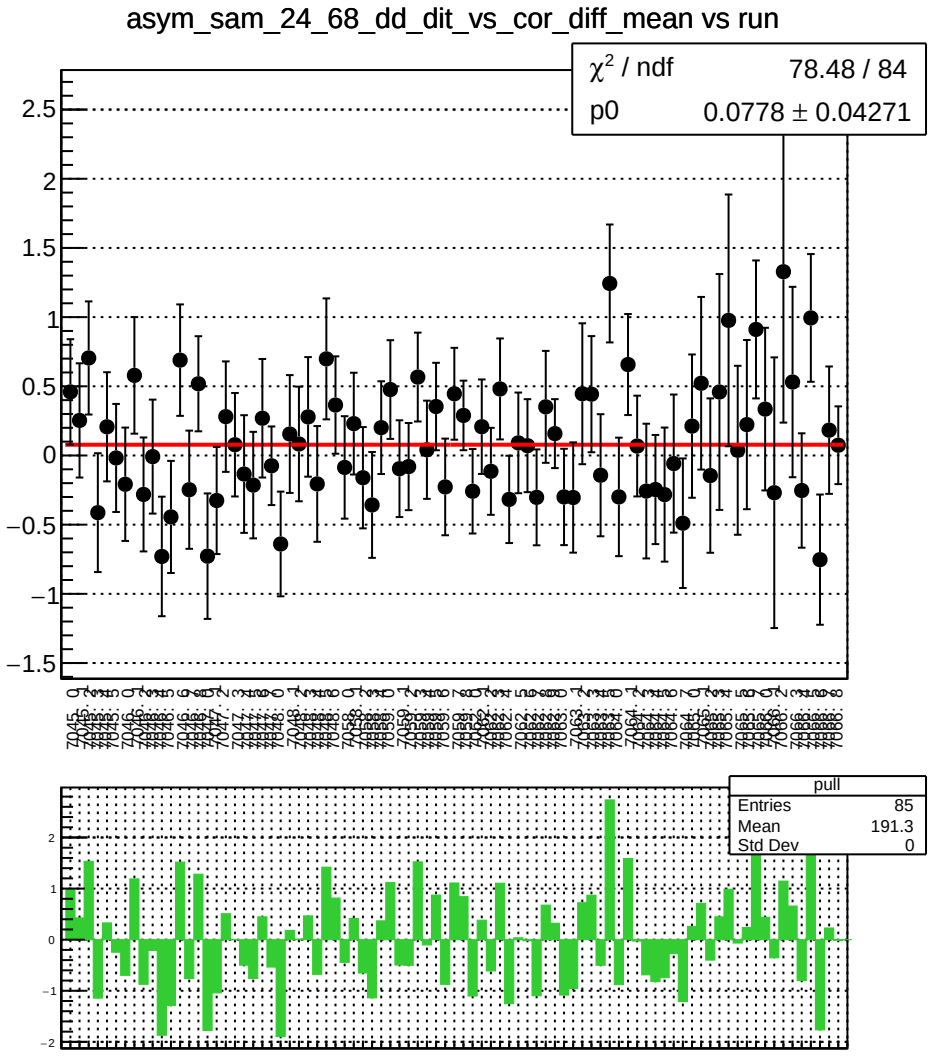

asym_sam_24_68_dd_mean vs run
χ² / ndf 56.66 / 84
p0 807.2 ± 959.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −120.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

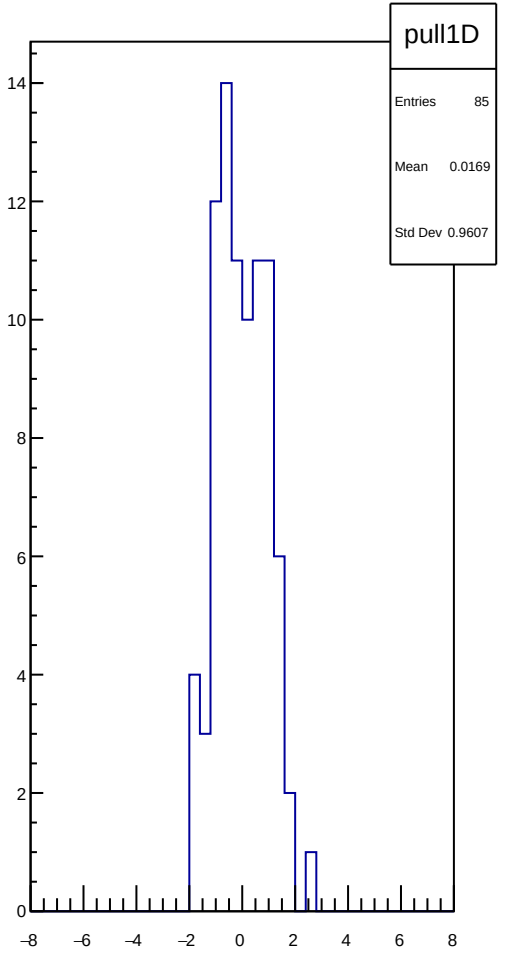

pull1D
Entries 85
Mean −0.01727
Std Dev 0.8162
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

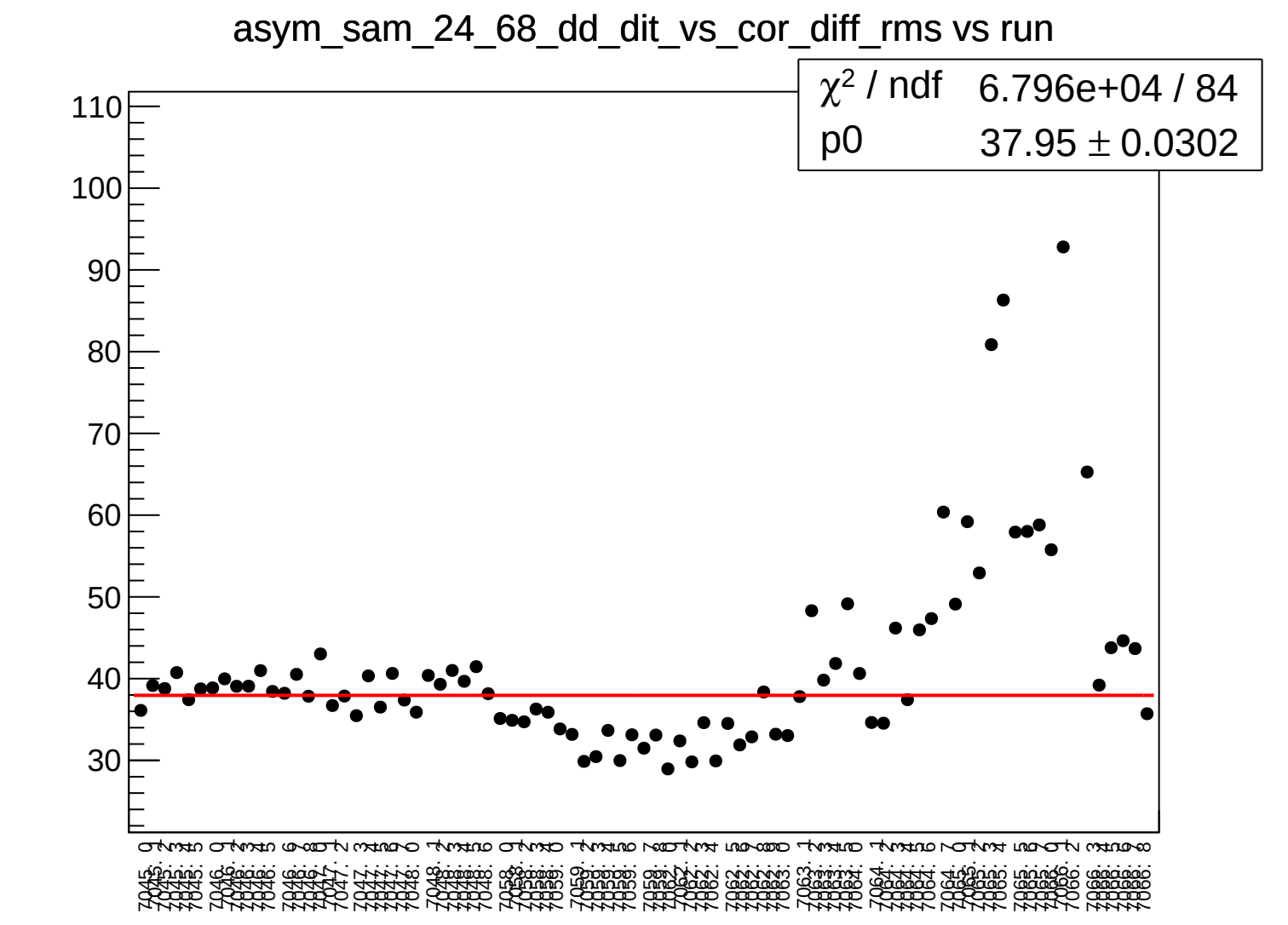

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5109 / 84
p0 869.8 ± 0.6788
980
960
940
920
900
880
860
840
820
800
780
760

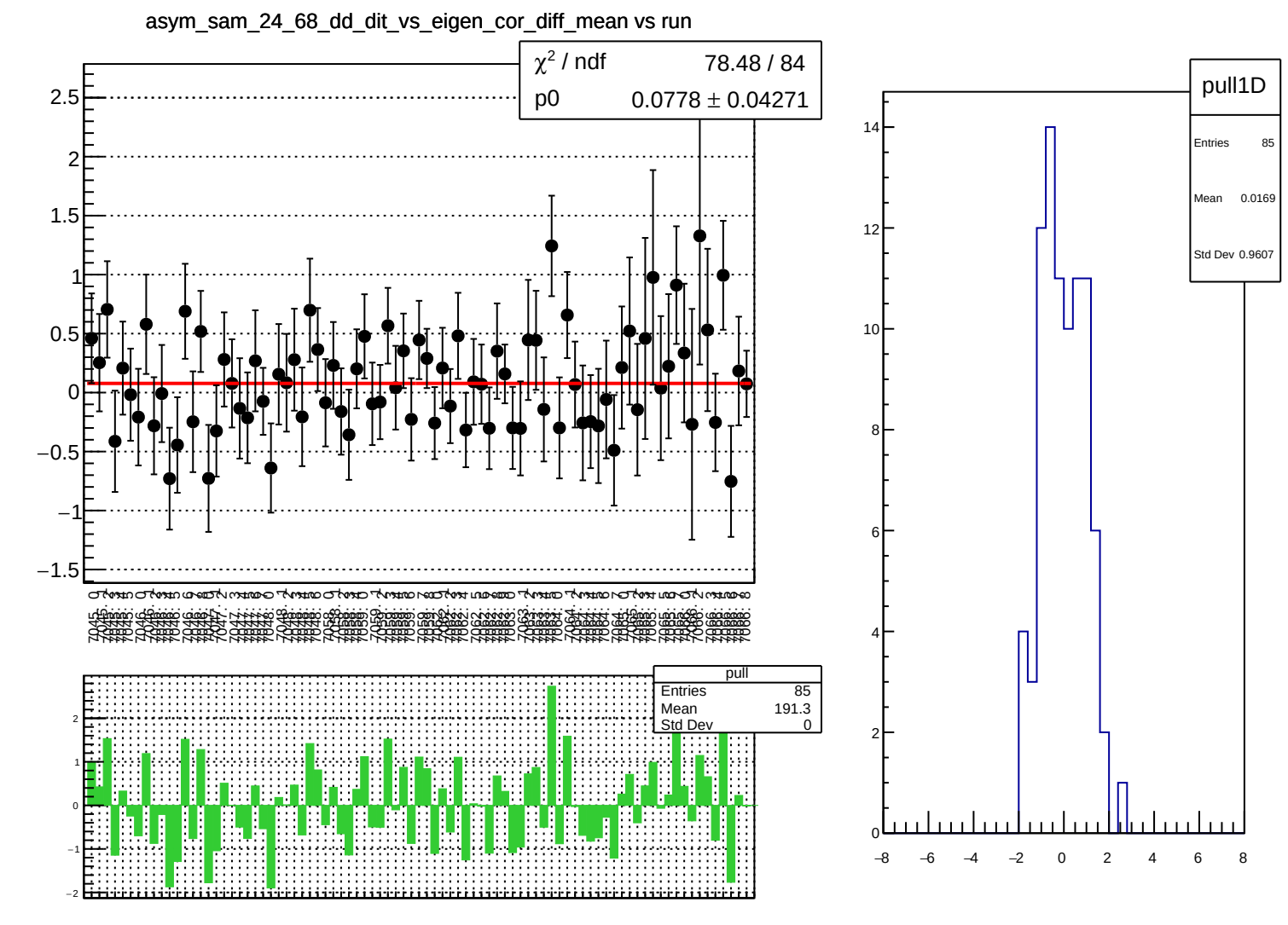

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.86 / 84
p0 4.922e−14 ± 2.274e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 75.38
Std Dev 32.09
pull1D
Entries 85
Mean 0.03895
Std Dev 1.05

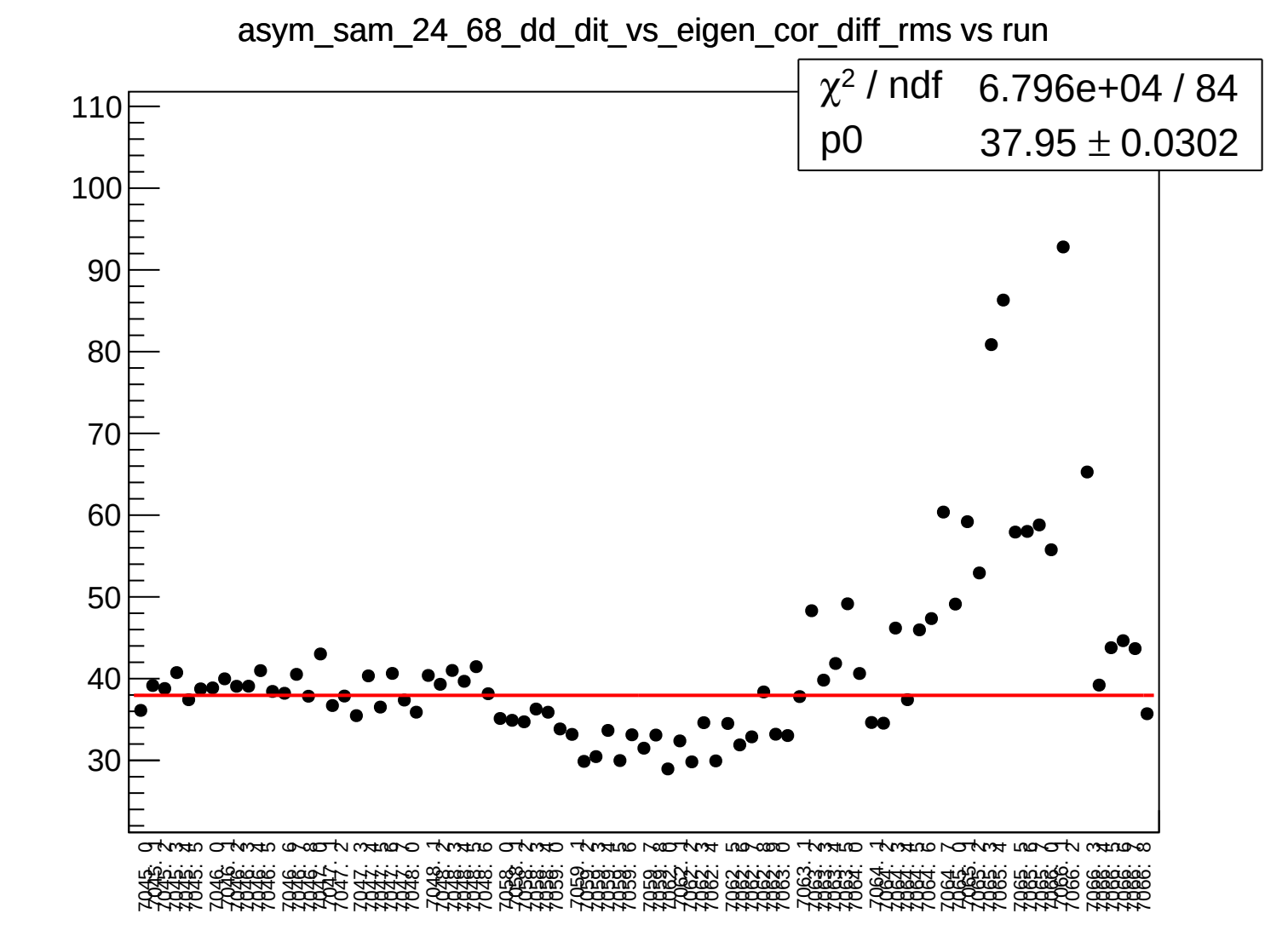

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 84
p0 1.262e−11 ± 1.608e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

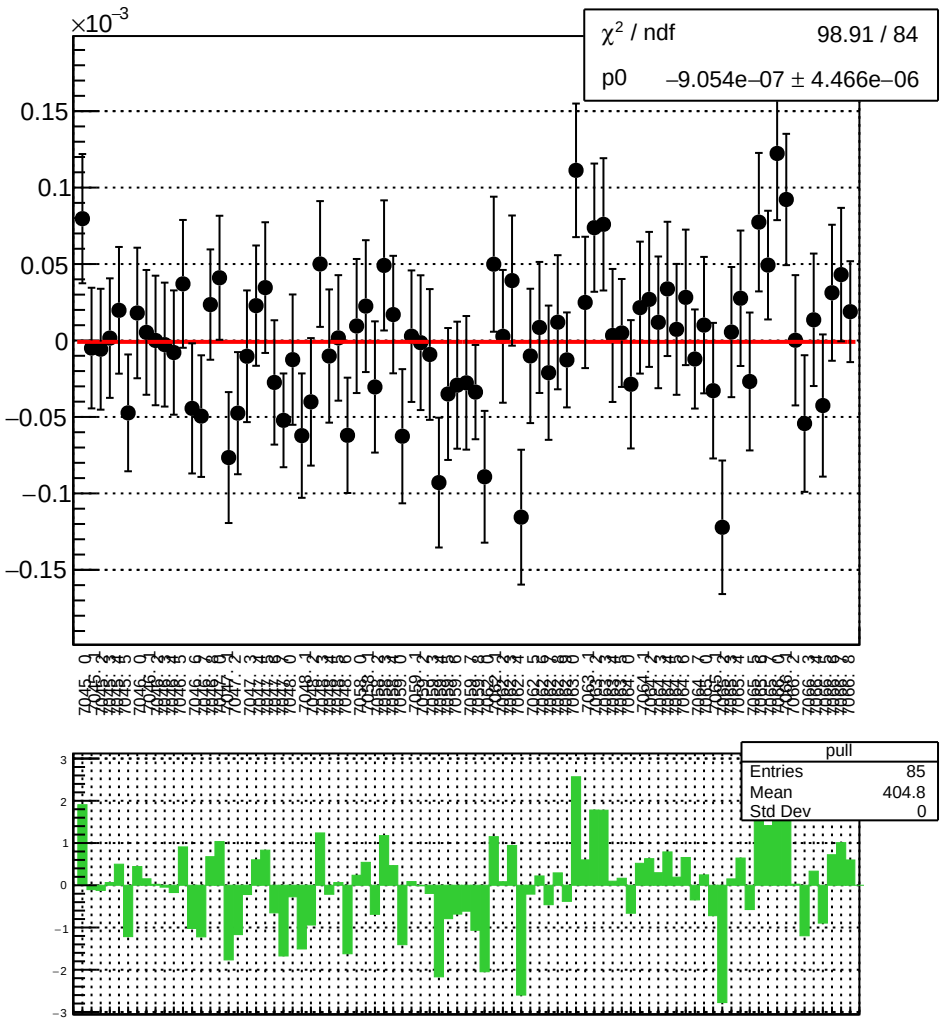

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.48 / 84
p0 0.0778 ± 0.04271
pull
Entries 85
Mean 191.3
Std Dev 0

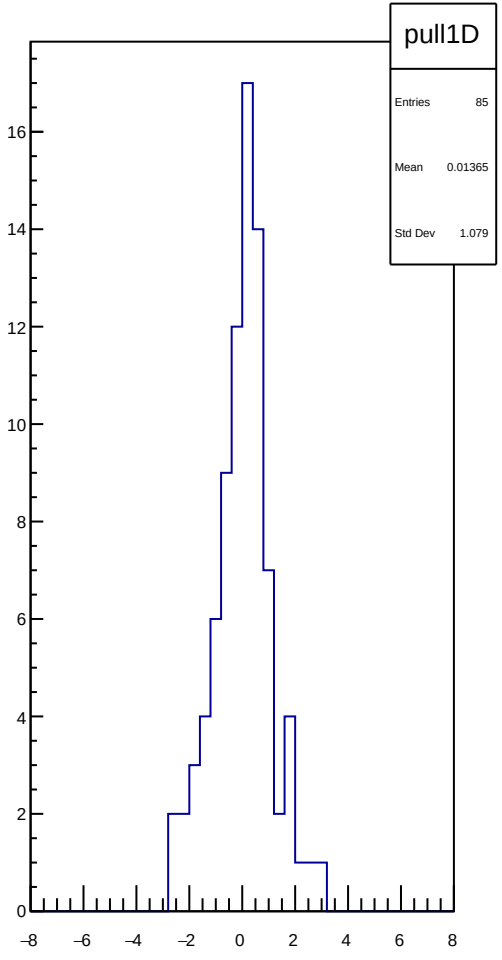

pull1D
Entries 85
Mean 0.0169
Std Dev 0.9607

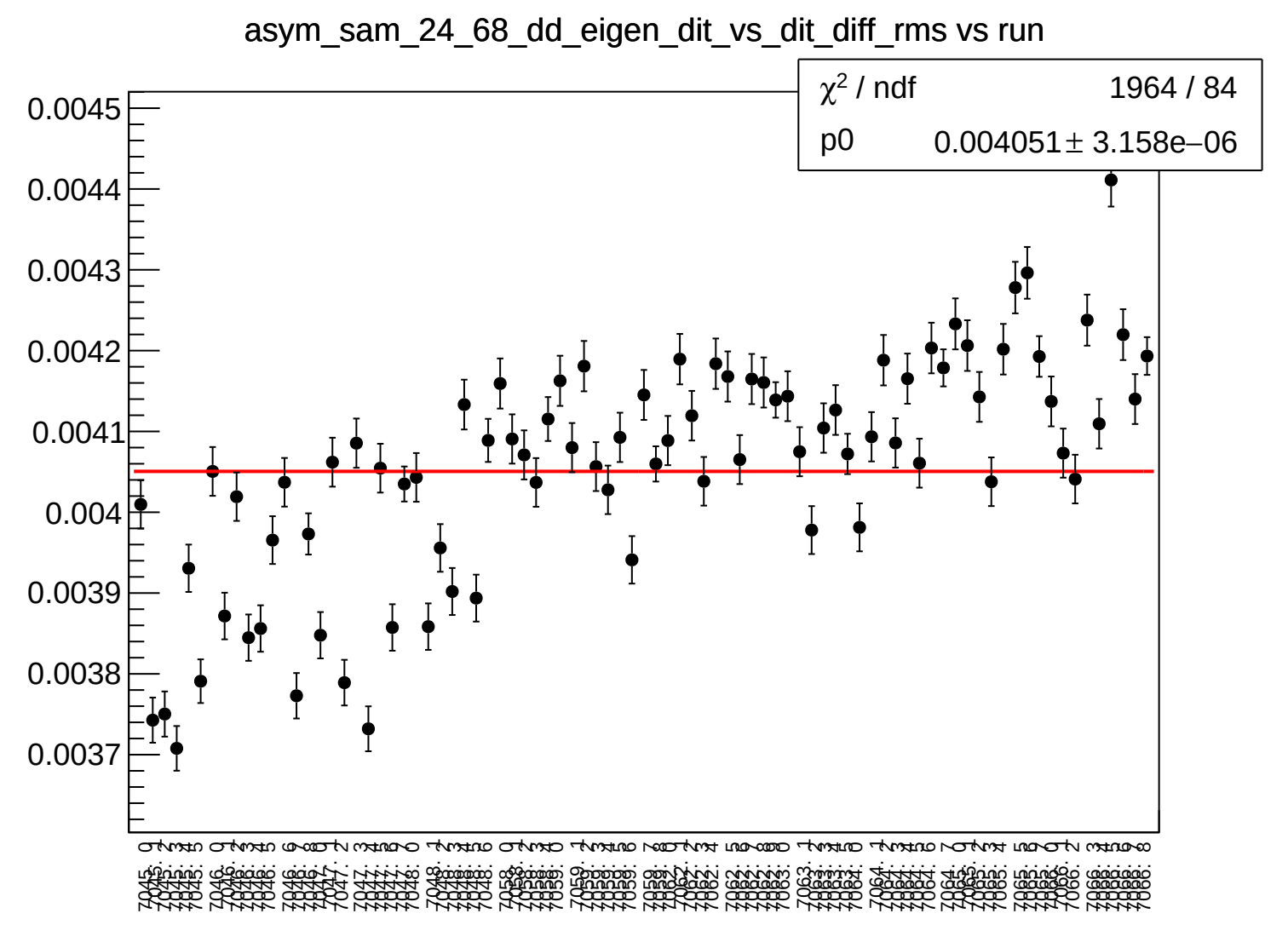

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.796e+04 / 84
p0 37.95 ± 0.0302
110
100
90
80
70
60
50
40
30

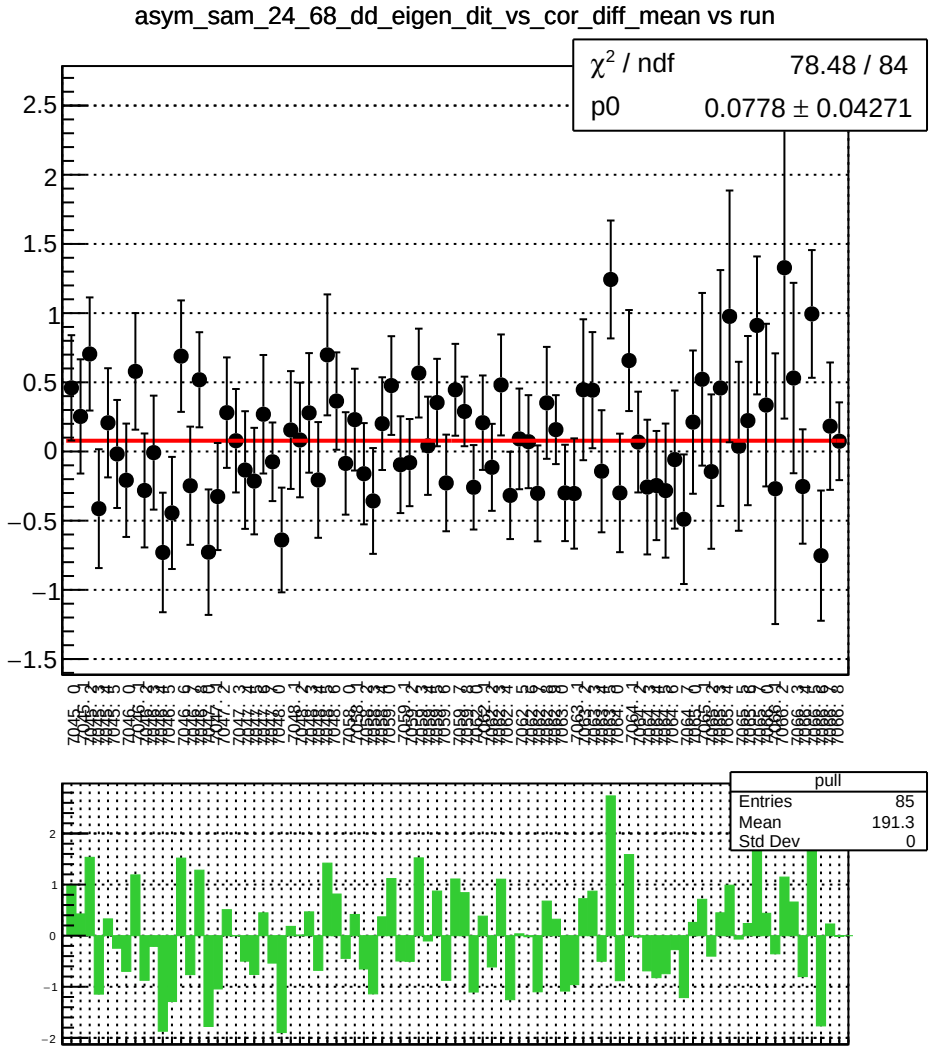

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.48 / 84
p0 0.0778 ± 0.04271
pull
Entries 85
Mean 191.3
Std Dev 0
pull1D
Entries 85
Mean 0.0169
Std Dev 0.9607

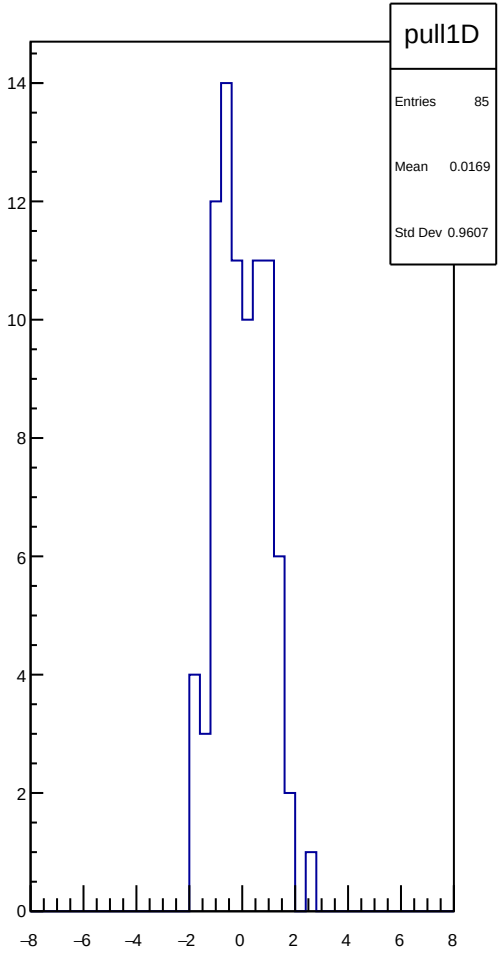

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.796e+04 / 84
p0 37.95 ± 0.0302
110
100
90
80
70
60
50
40
30

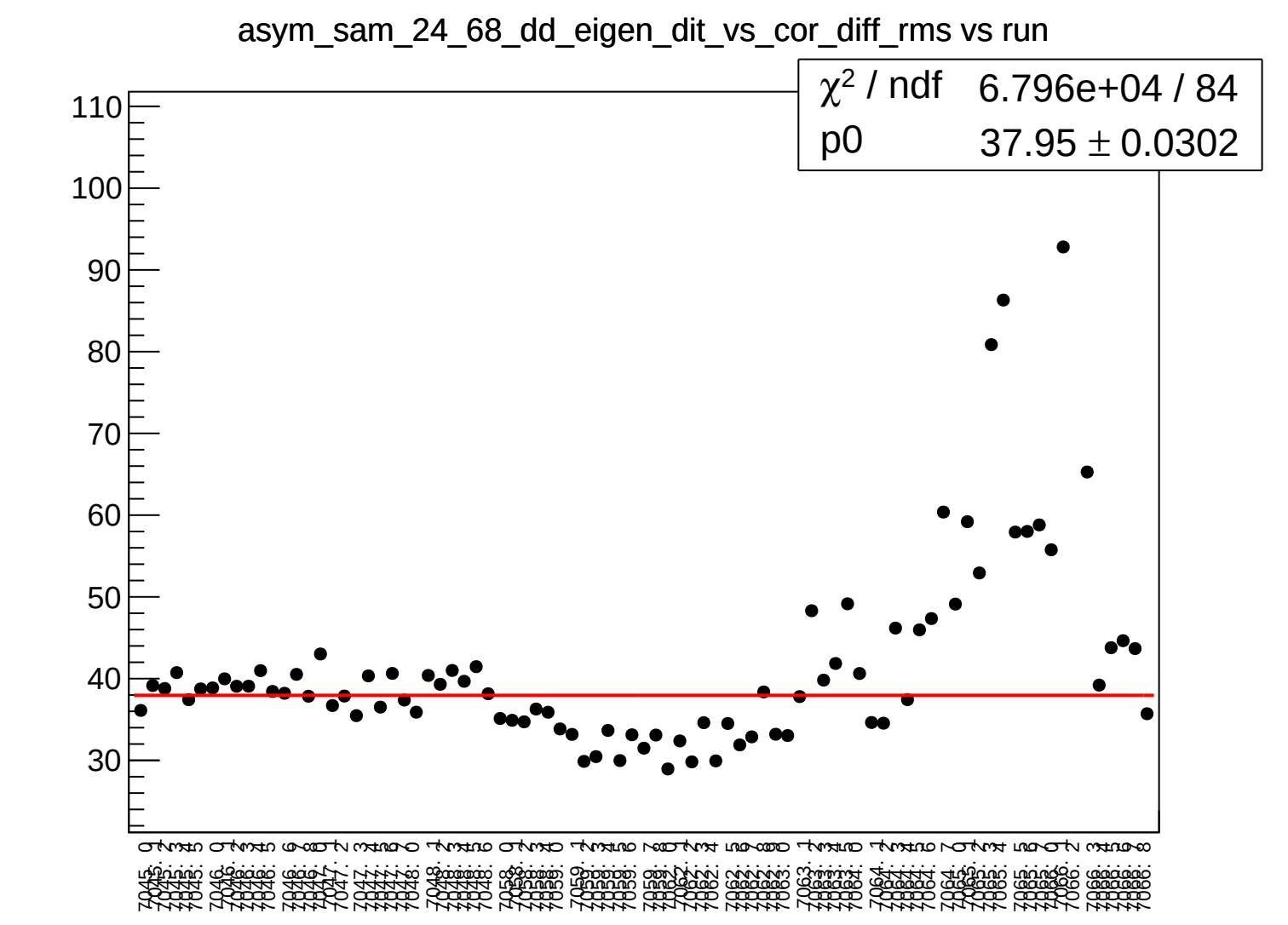

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.91 / 84
p0 −9.054e−07 ± 4.466e−06
pull
Entries 85
Mean 404.8
Std Dev 0

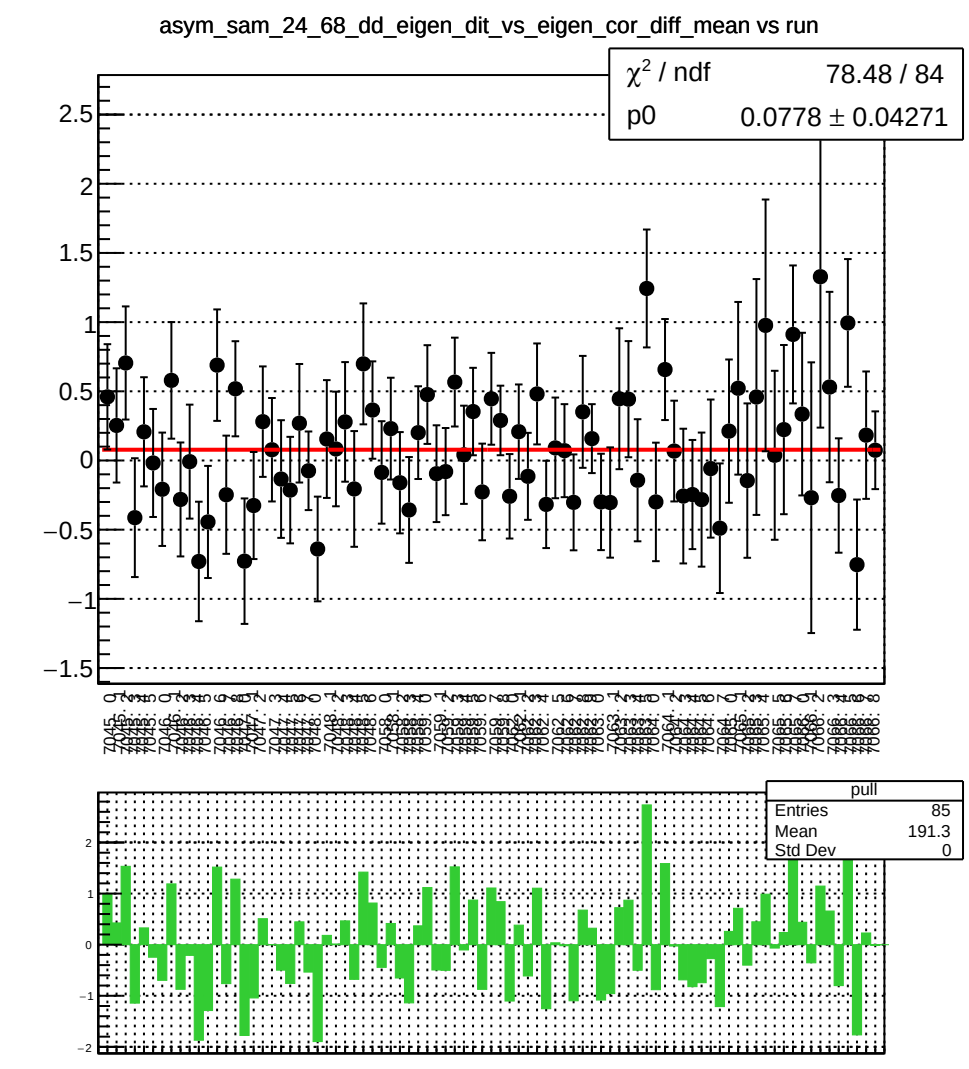

pull1D
Entries 85
Mean 0.01365
Std Dev 1.079

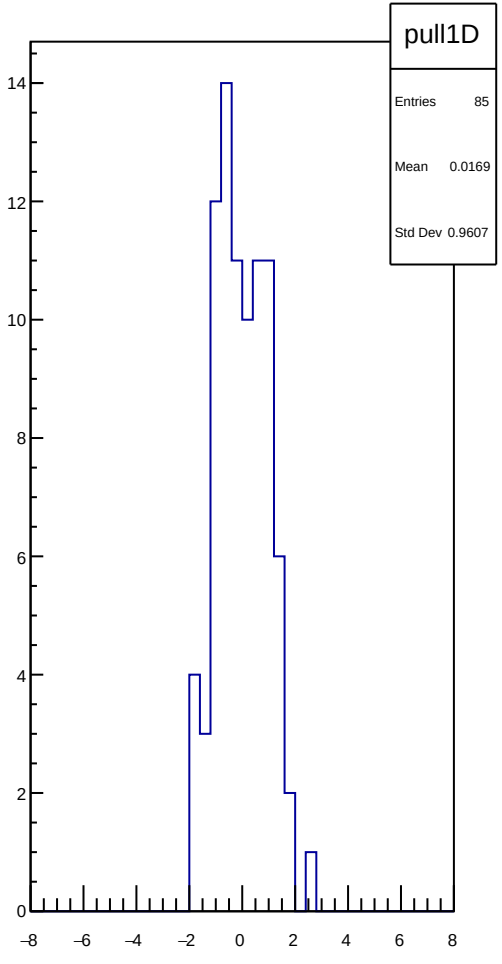

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1964 / 84
p0 0.004051 ± 3.158e−06
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037

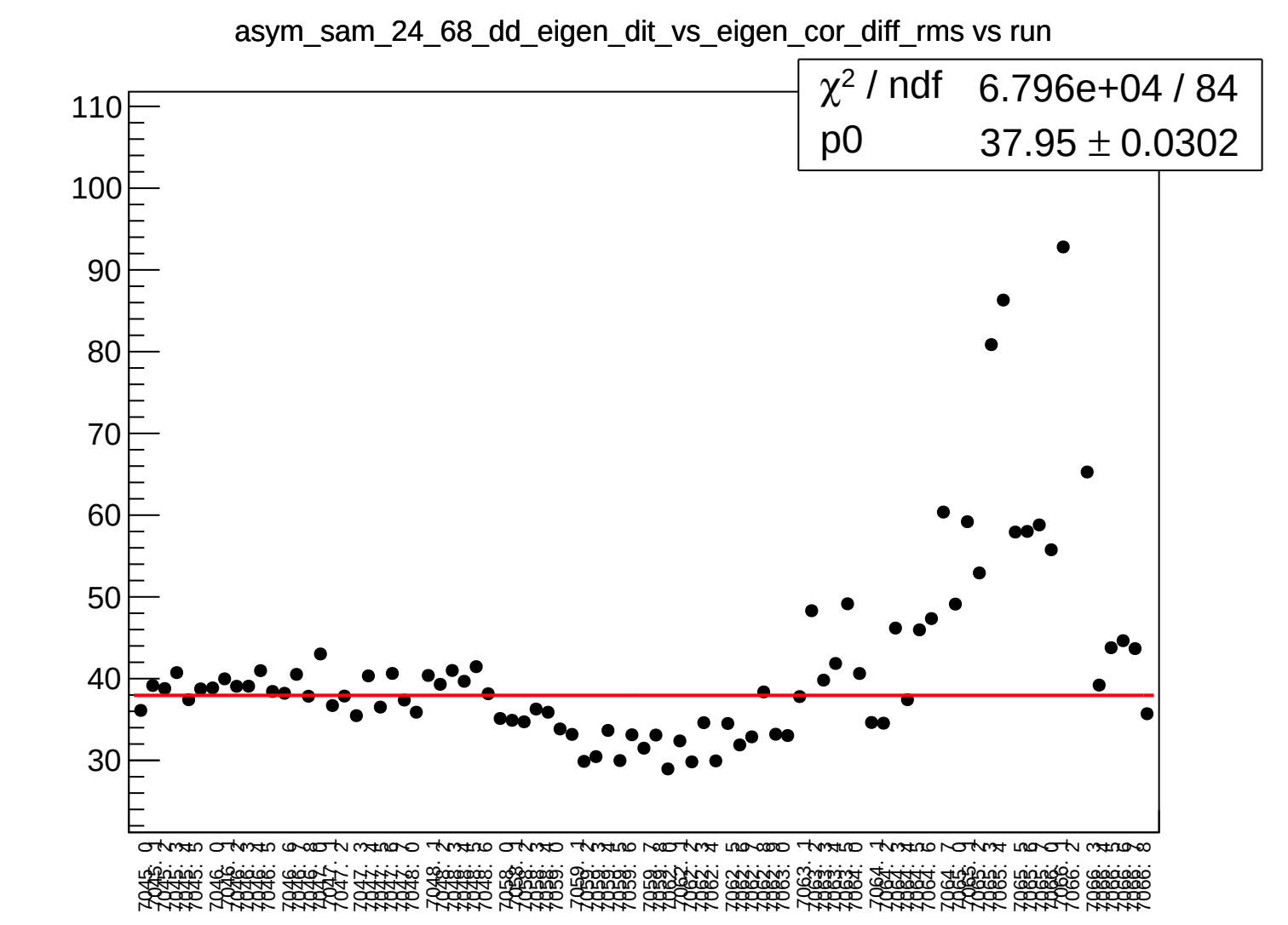

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.48 / 84
p0 0.0778 ± 0.04271
pull
Entries 85
Mean 191.3
Std Dev 0

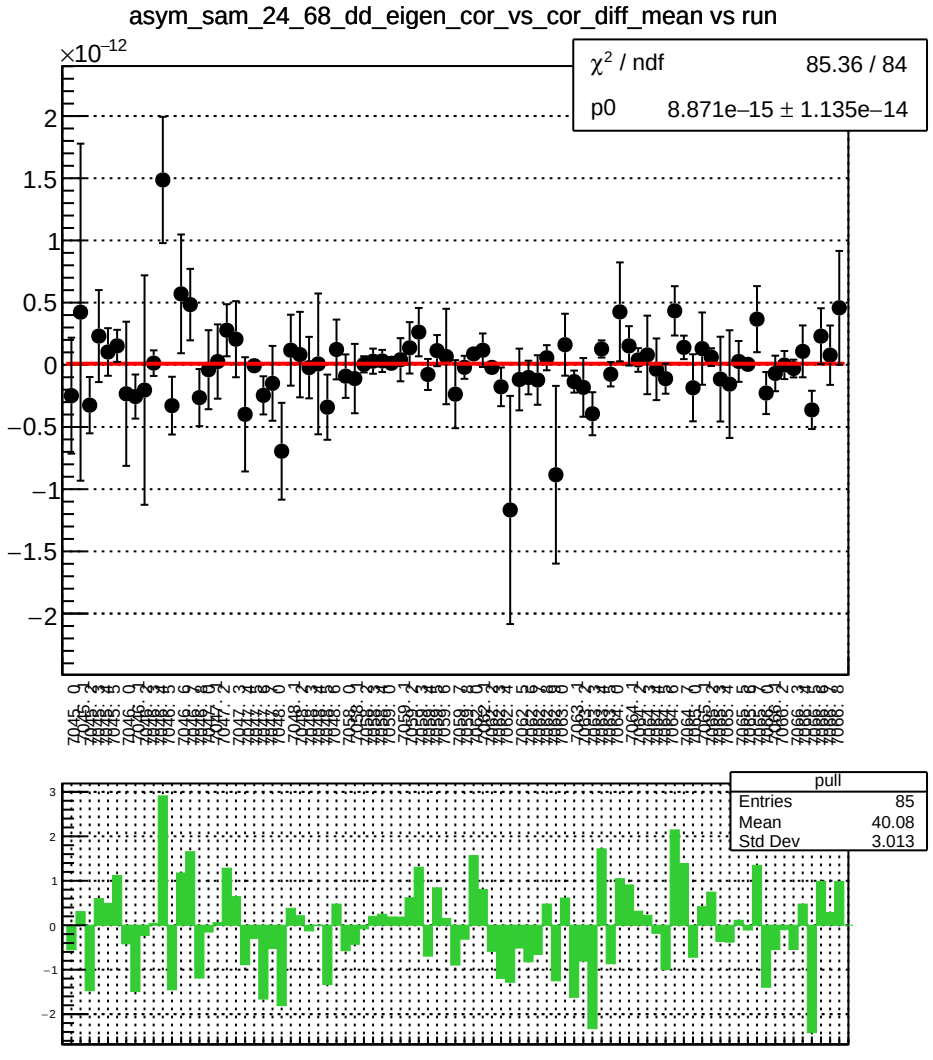

pull1D
Entries 85
Mean 0.0169
Std Dev 0.9607

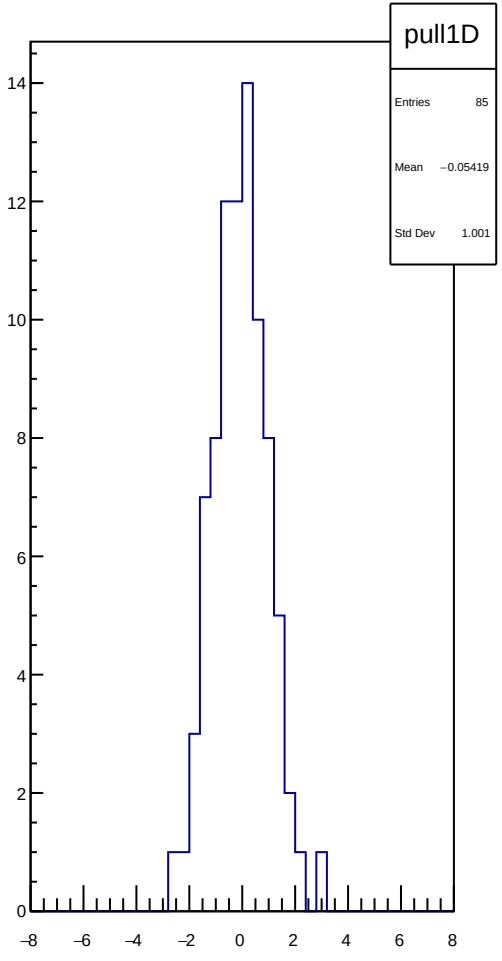

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.796e+04 / 84
p0 37.95 ± 0.0302
110
100
90
80
70
60
50
40
30

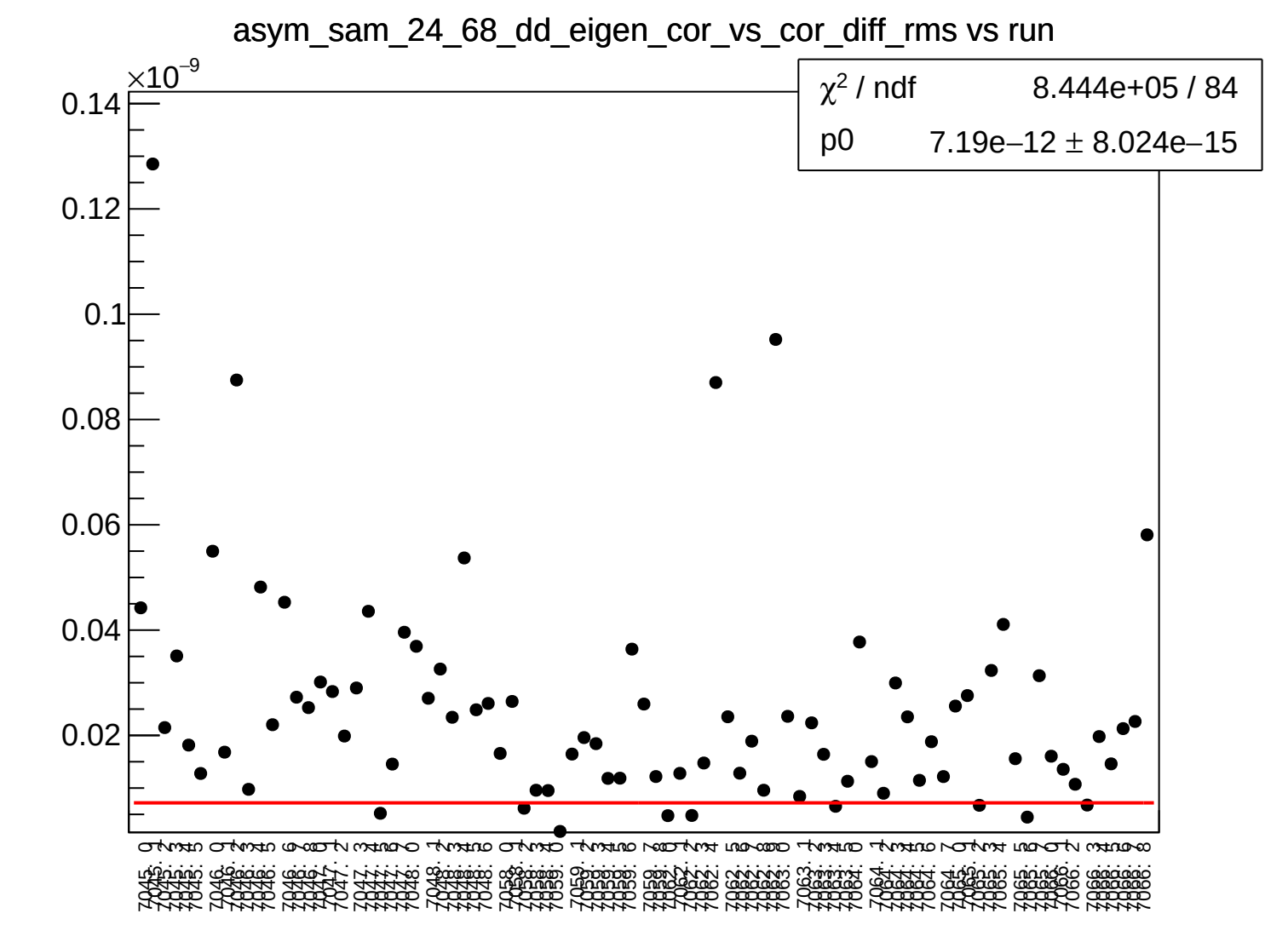

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.48 / 84
p0 0.0778 ± 0.04271
pull
Entries 85
Mean 191.3
Std Dev 0

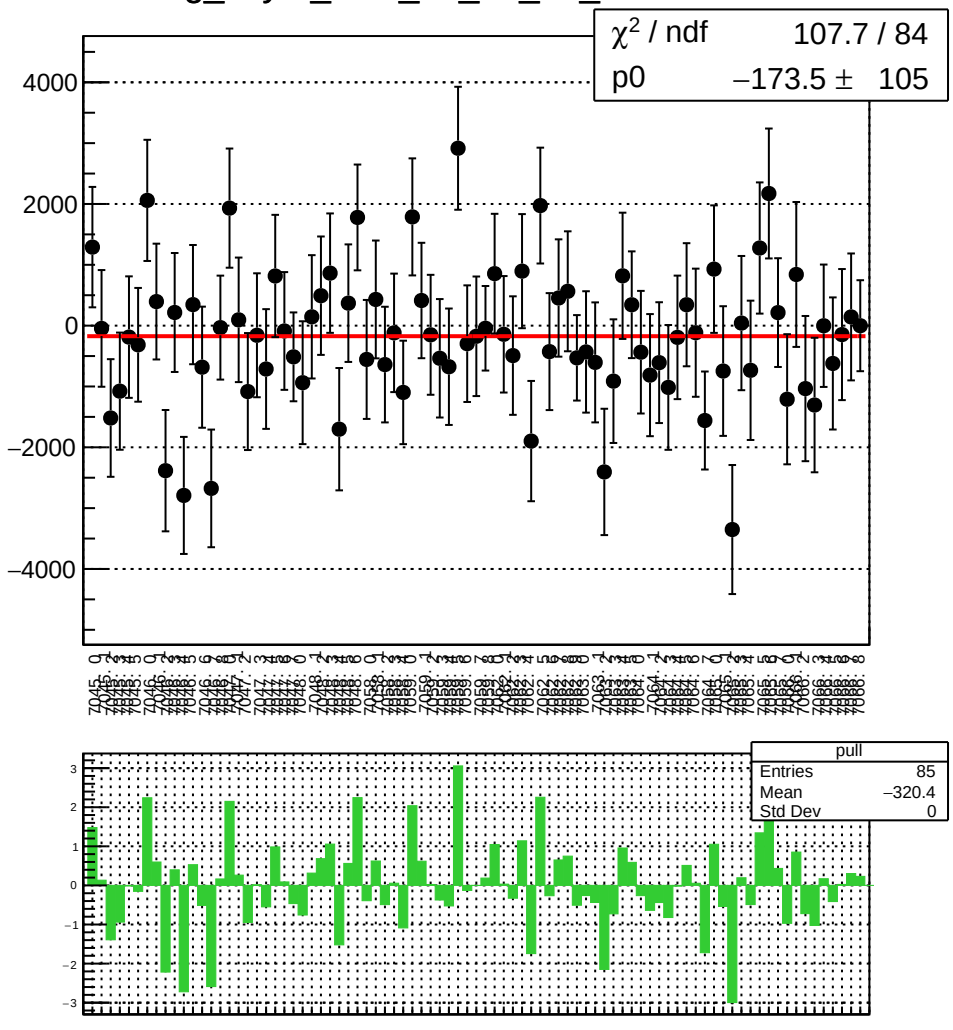

pull1D
Entries 85
Mean 0.0169
Std Dev 0.9607

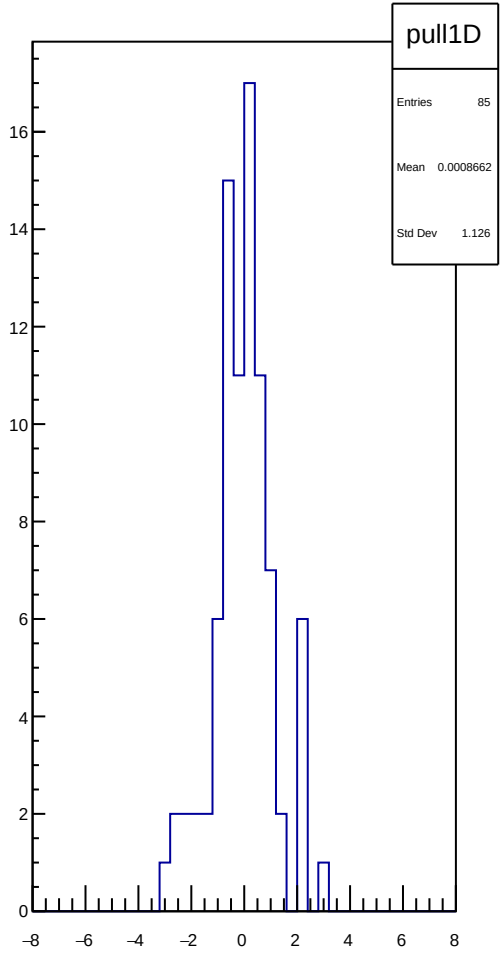

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.796e+04 / 84
p0 37.95 ± 0.0302
110
100
90
80
70
60
50
40
30

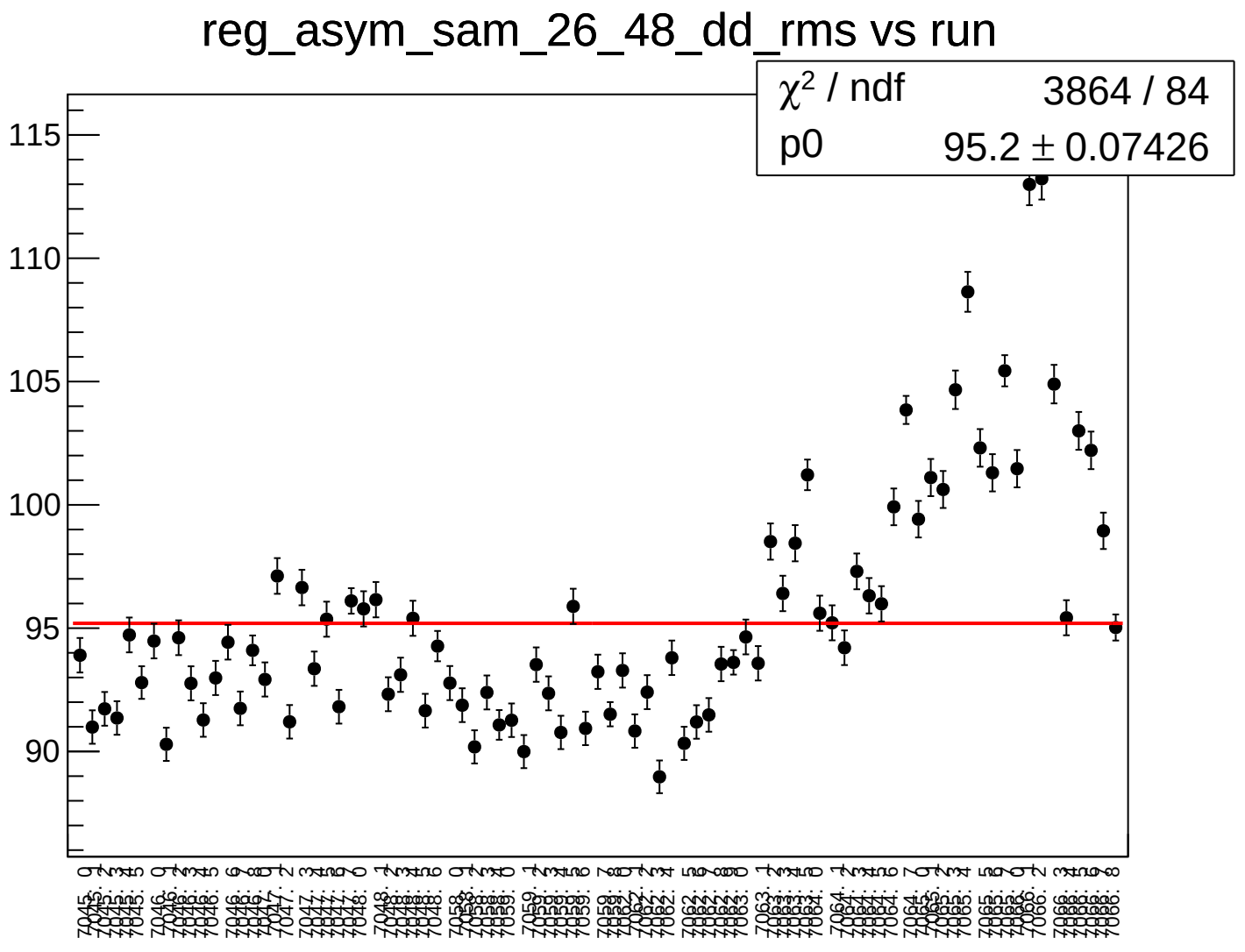

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.36 / 84
p0 8.871e−15 ± 1.135e−14
pull
Entries 85
Mean 40.08
Std Dev 3.013

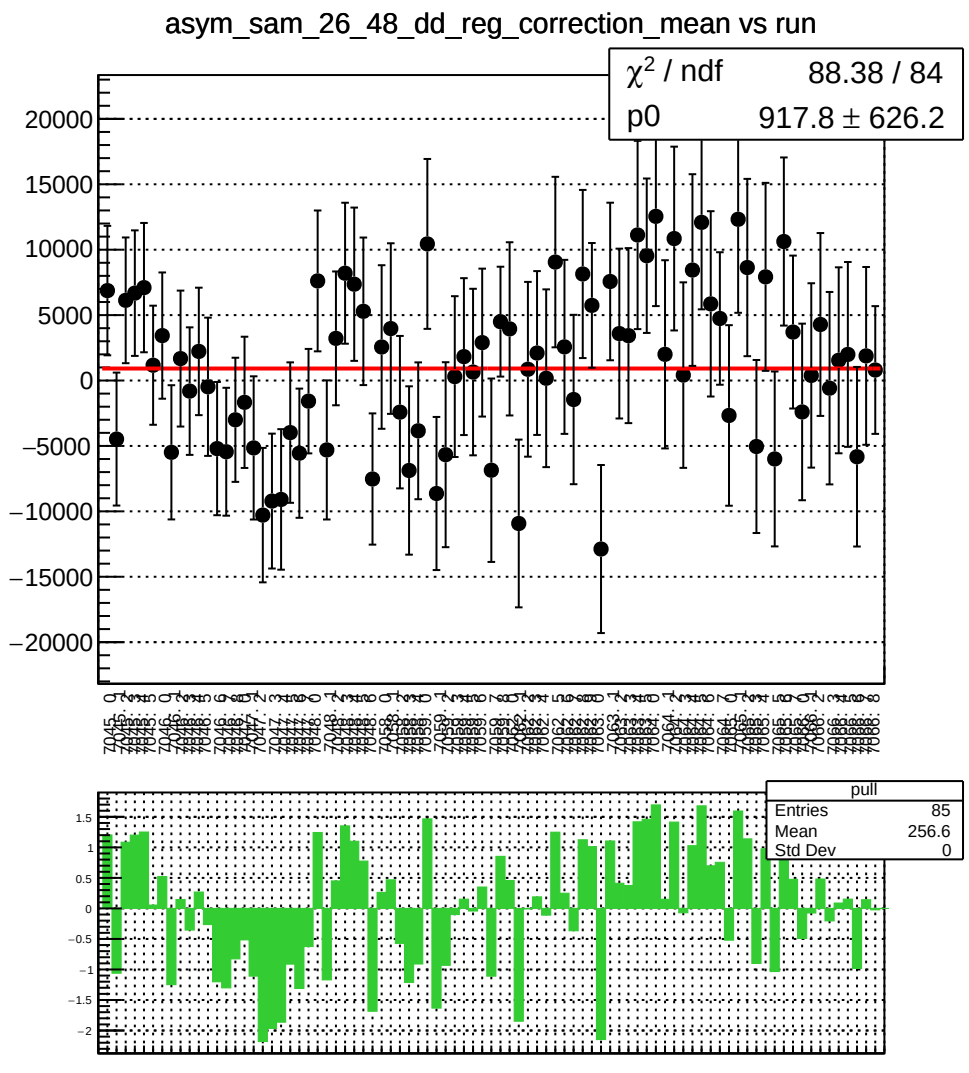

pull1D
Entries 85
Mean −0.05419
Std Dev 1.001

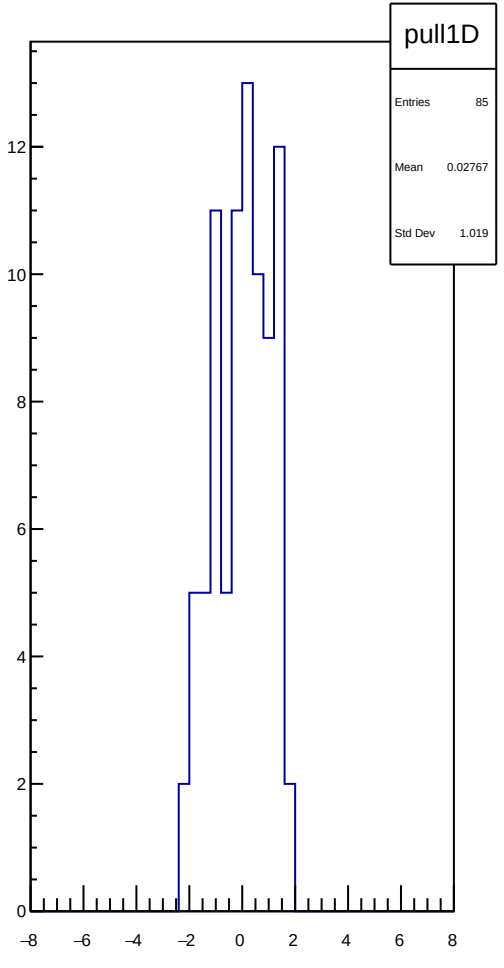

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.444e+05 / 84
p0 7.19e−12 ± 8.024e−15
0.14
0.12
0.1
0.08
0.06
0.04
0.02

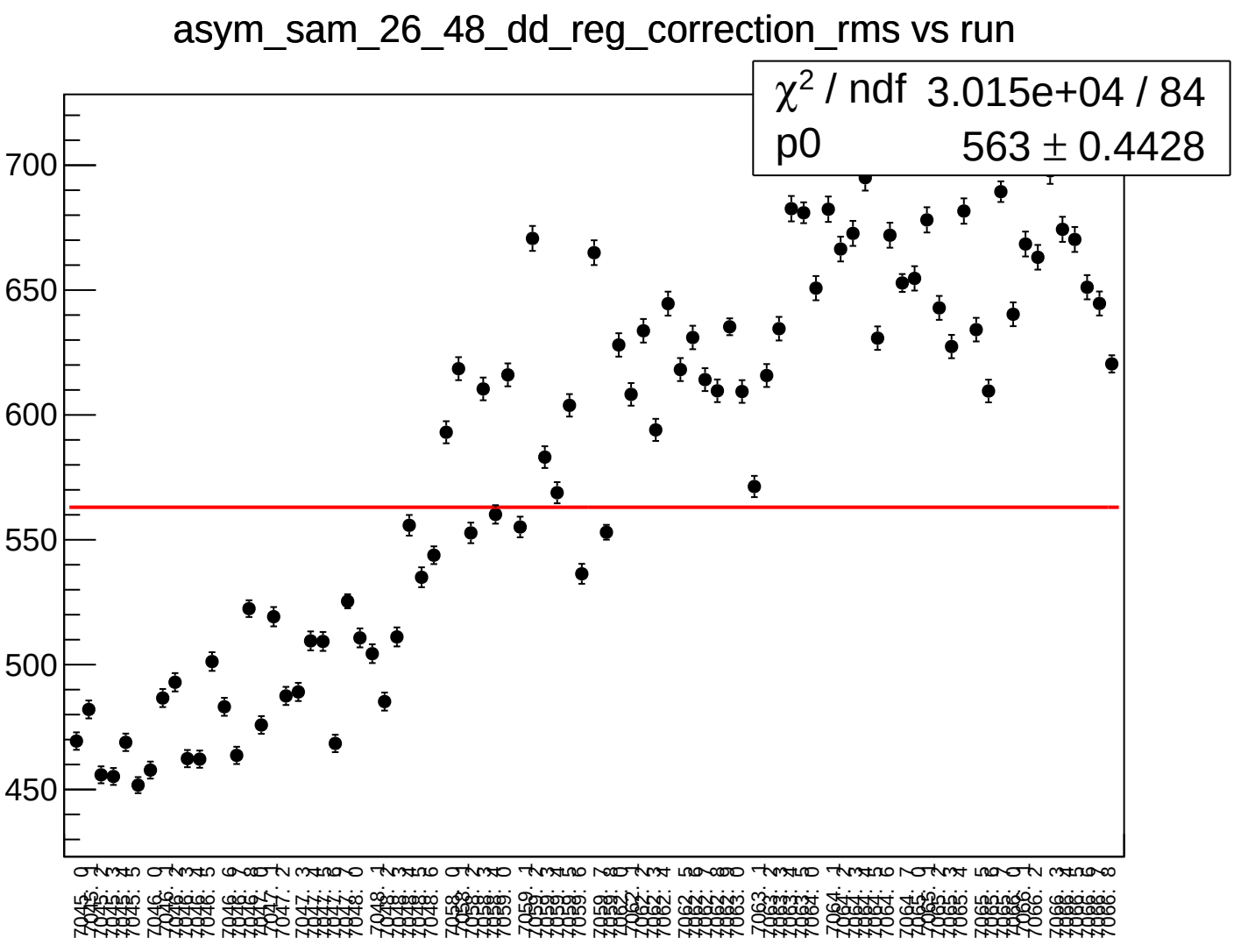

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.7 / 84
p0 −173.5 ± 105
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −320.4
Std Dev 0
3
2
1
0
−1
−2
−3

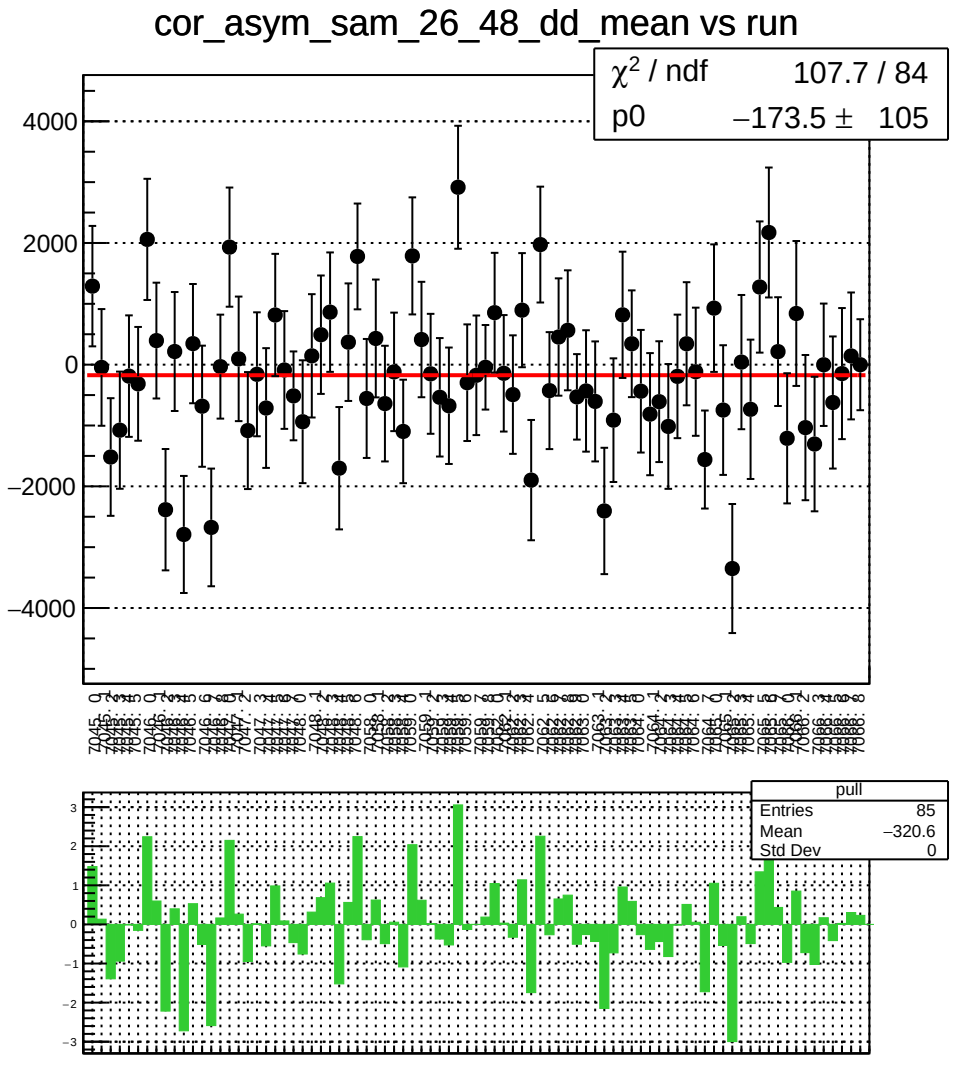

pull1D
Entries 85
Mean 0.0008662
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

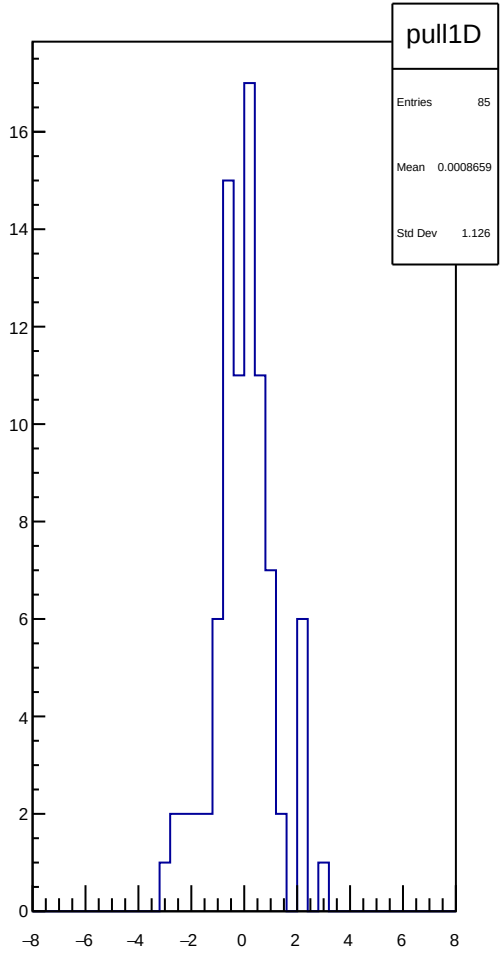

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3864 / 84
p0 95.2 ± 0.07426
115
110
105
100
95
90

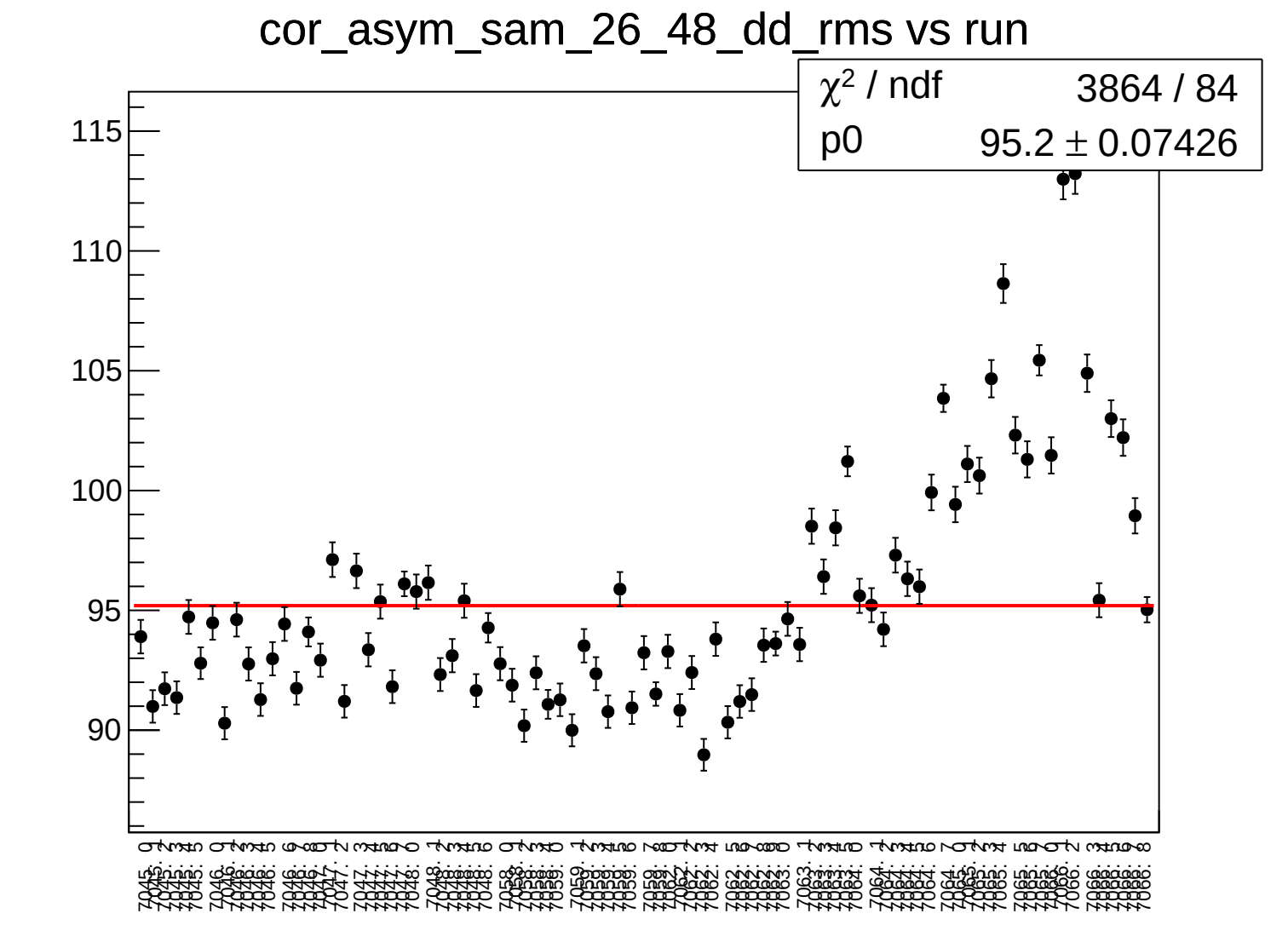

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 88.38 / 84
p0 917.8 ± 626.2
pull
Entries 85
Mean 256.6
Std Dev 0

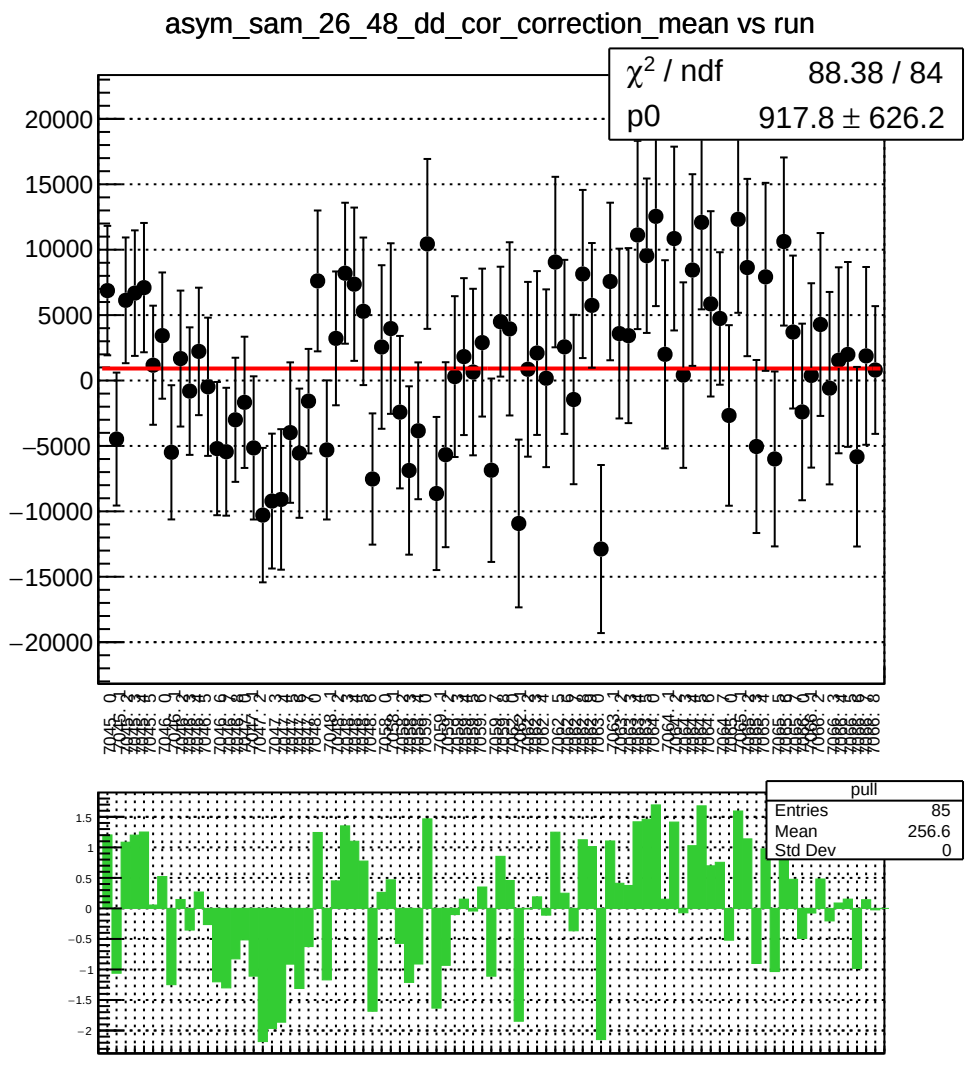

pull1D
Entries 85
Mean 0.02767
Std Dev 1.019

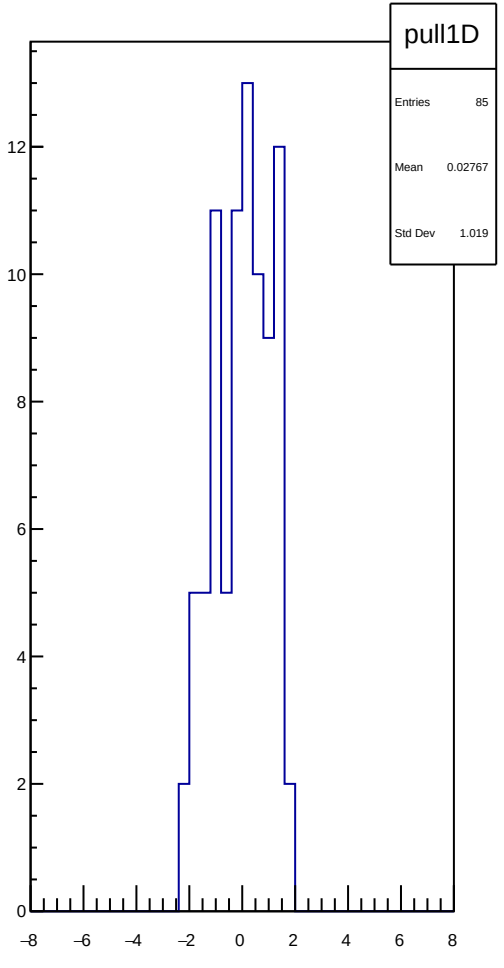

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3.015e+04 / 84
p0 563 ± 0.4428
700
650
600
550
500
450

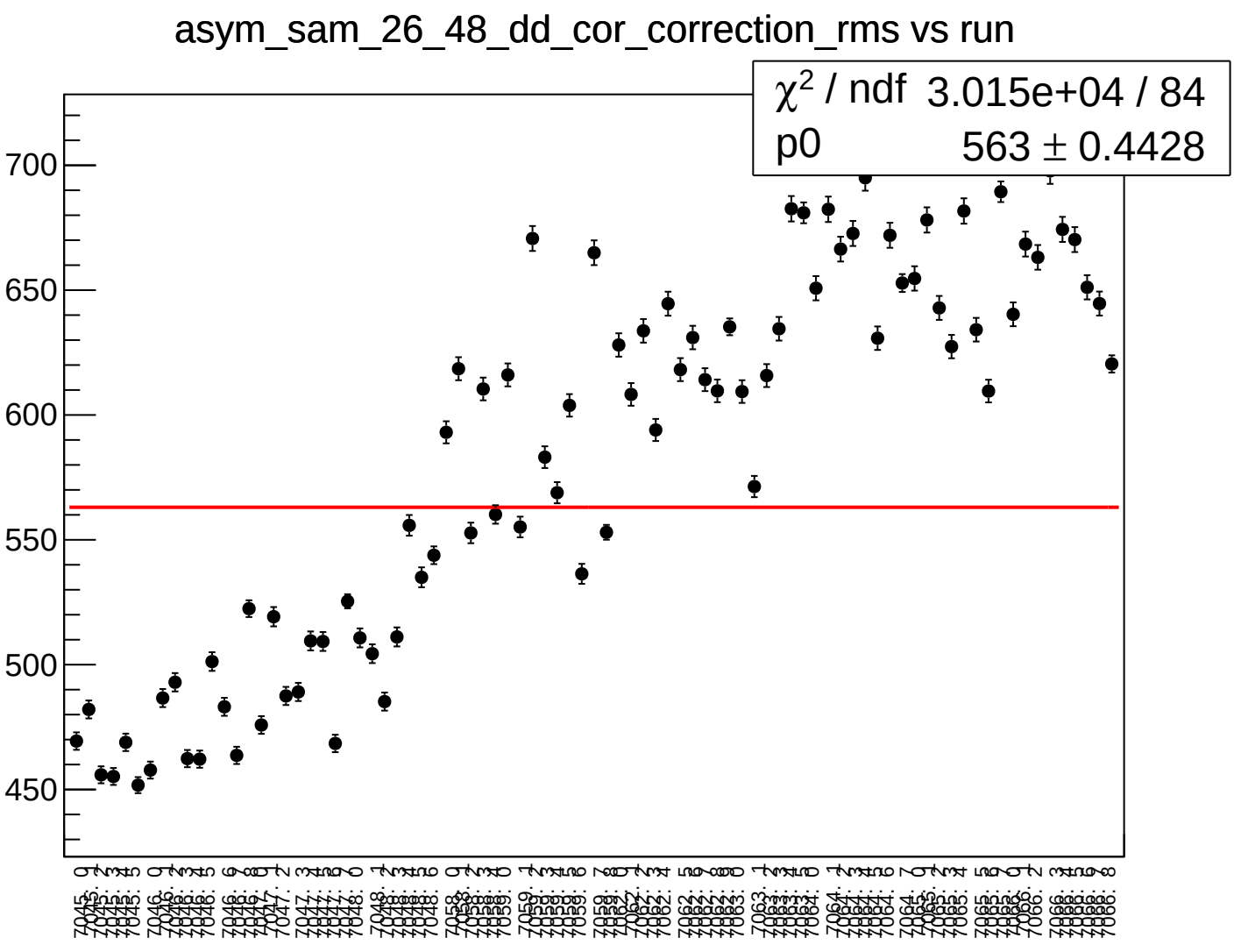

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.7 / 84
p0 −173.5 ± 105
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −320.6
Std Dev 0
3
2
1
0
−1
−2
−3

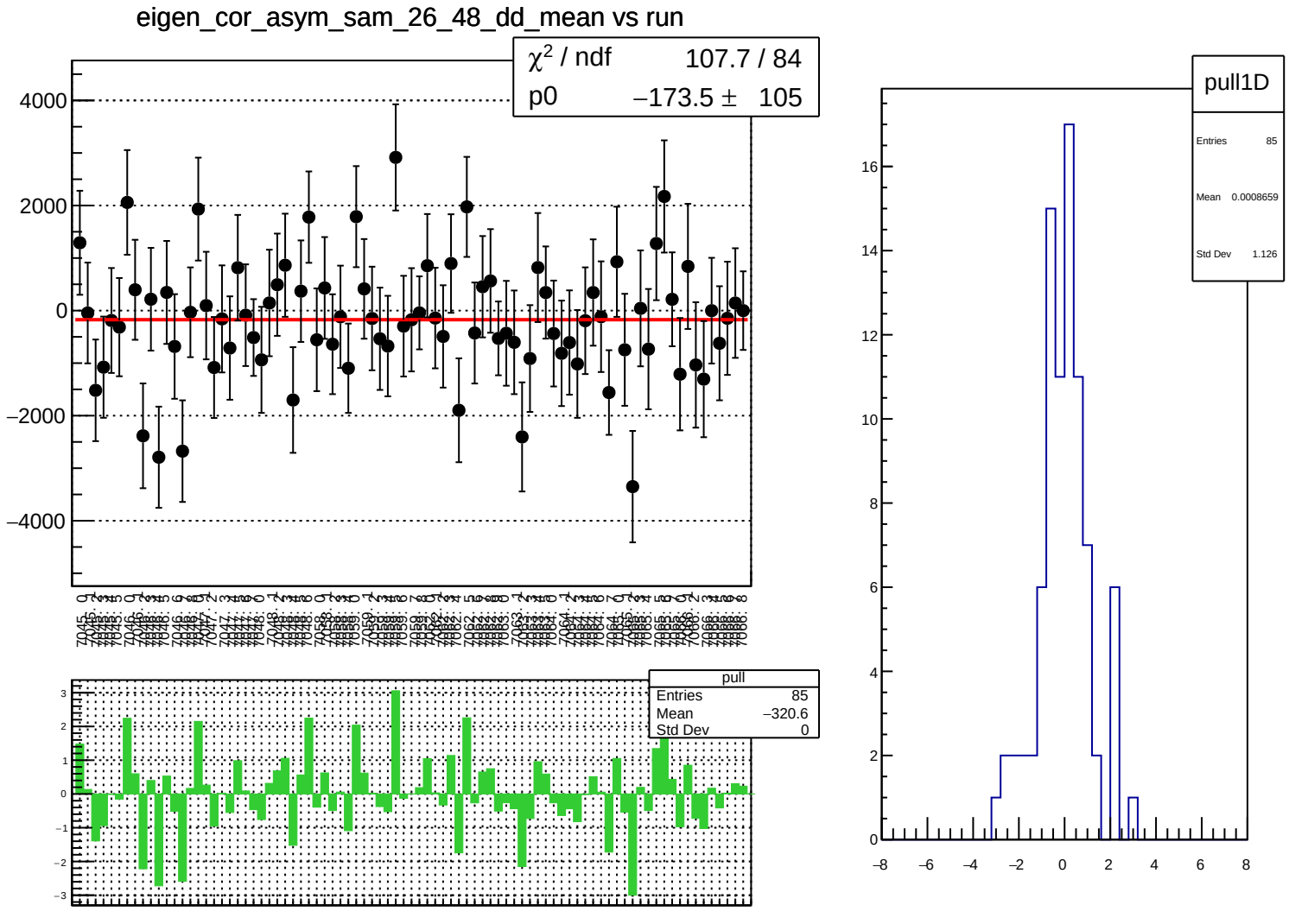

pull1D
Entries 85
Mean 0.0008659
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

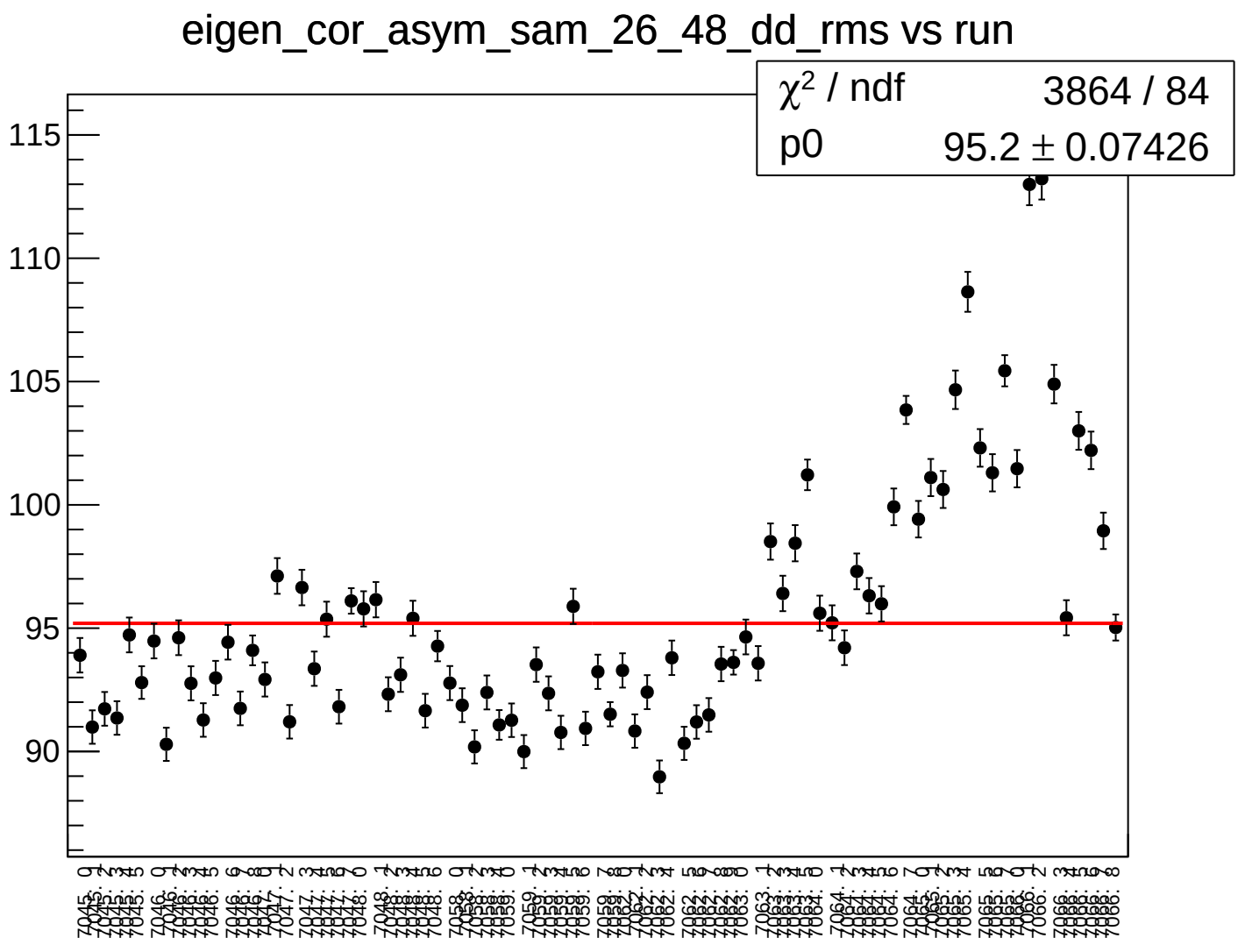

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3864 / 84
p0 95.2 ± 0.07426
115
110
105
100
95
90

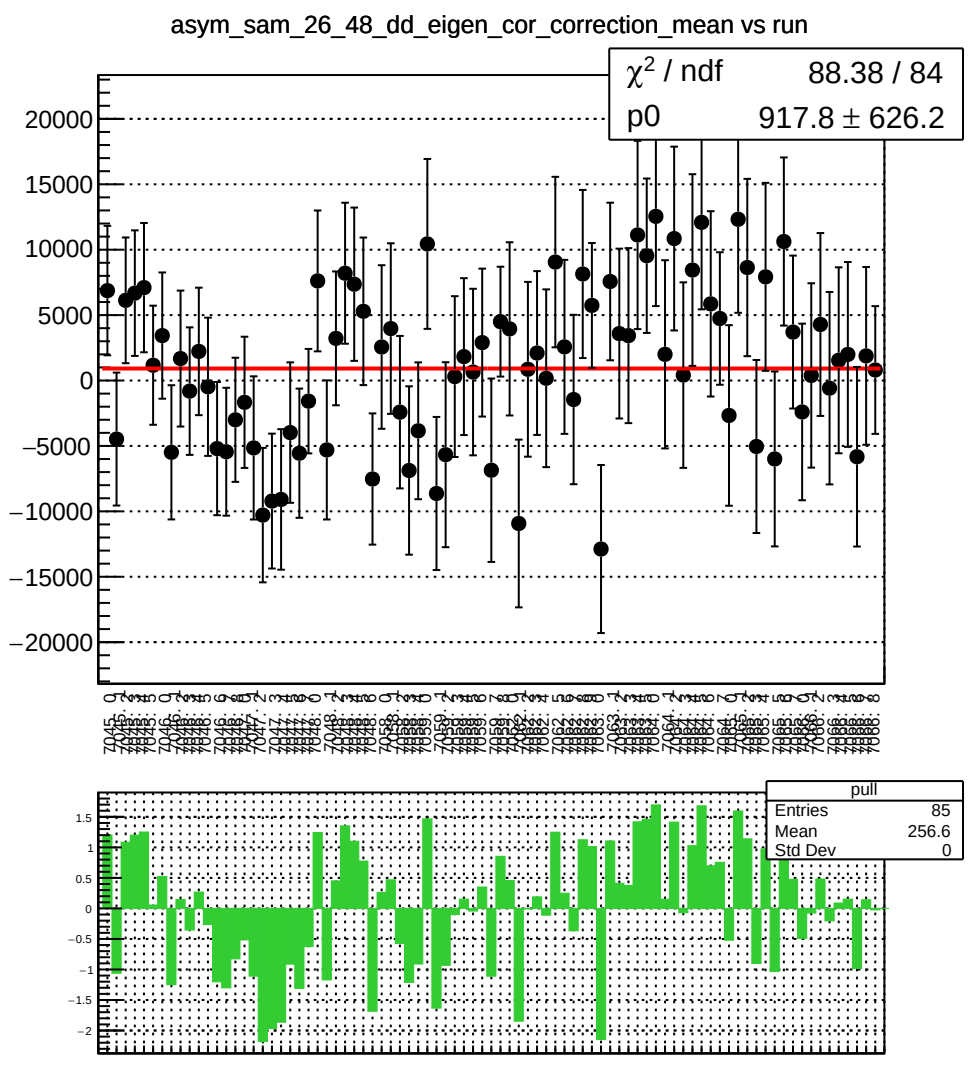

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 88.38 / 84
p0 917.8 ± 626.2
pull
Entries 85
Mean 256.6
Std Dev 0

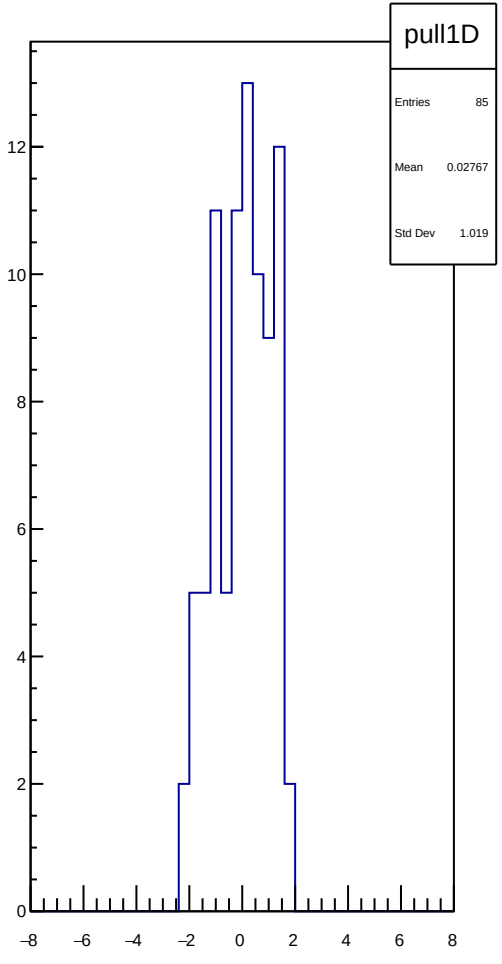

pull1D
Entries 85
Mean 0.02767
Std Dev 1.019

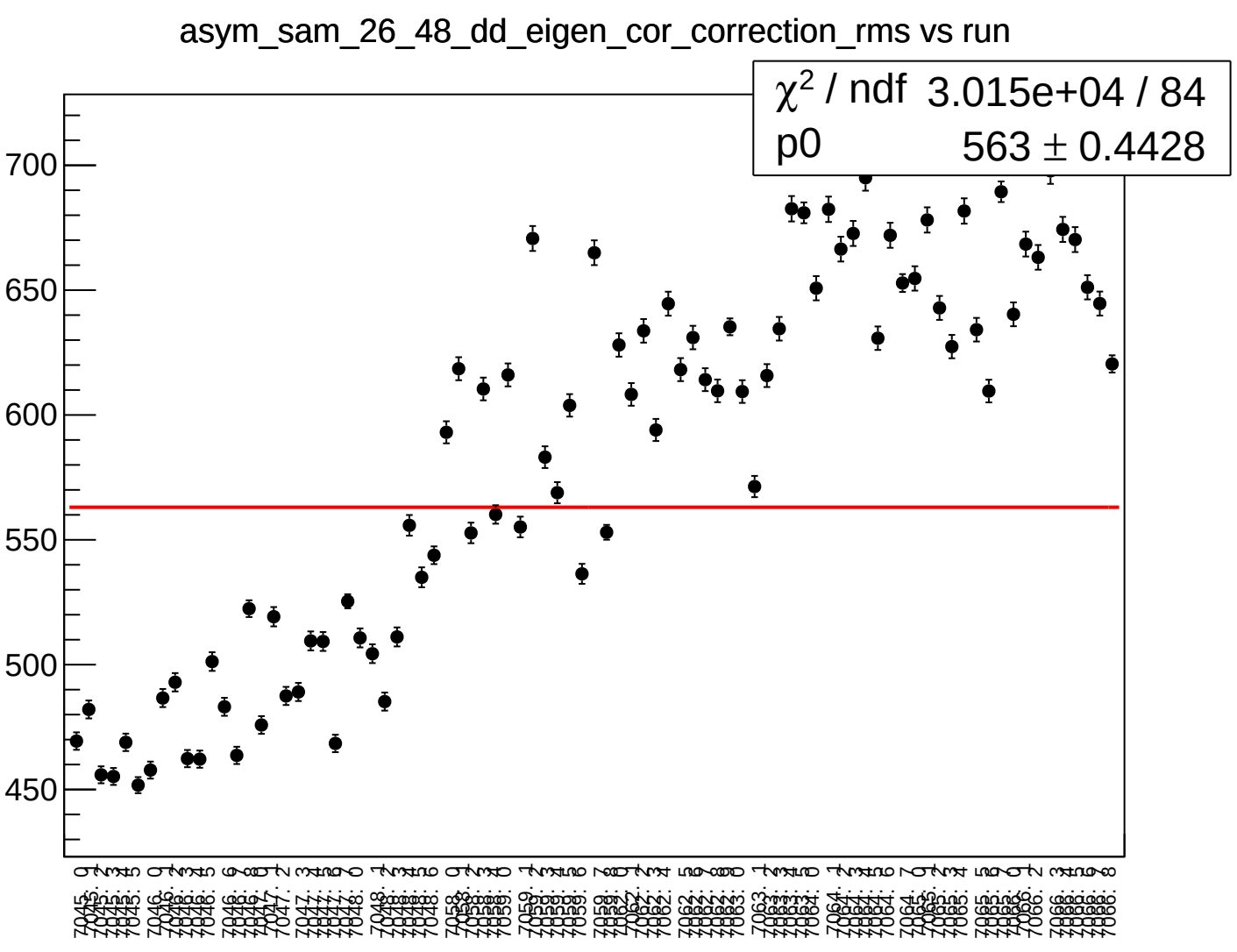

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3.015e+04 / 84
p0 563 ± 0.4428
700
650
600
550
500
450

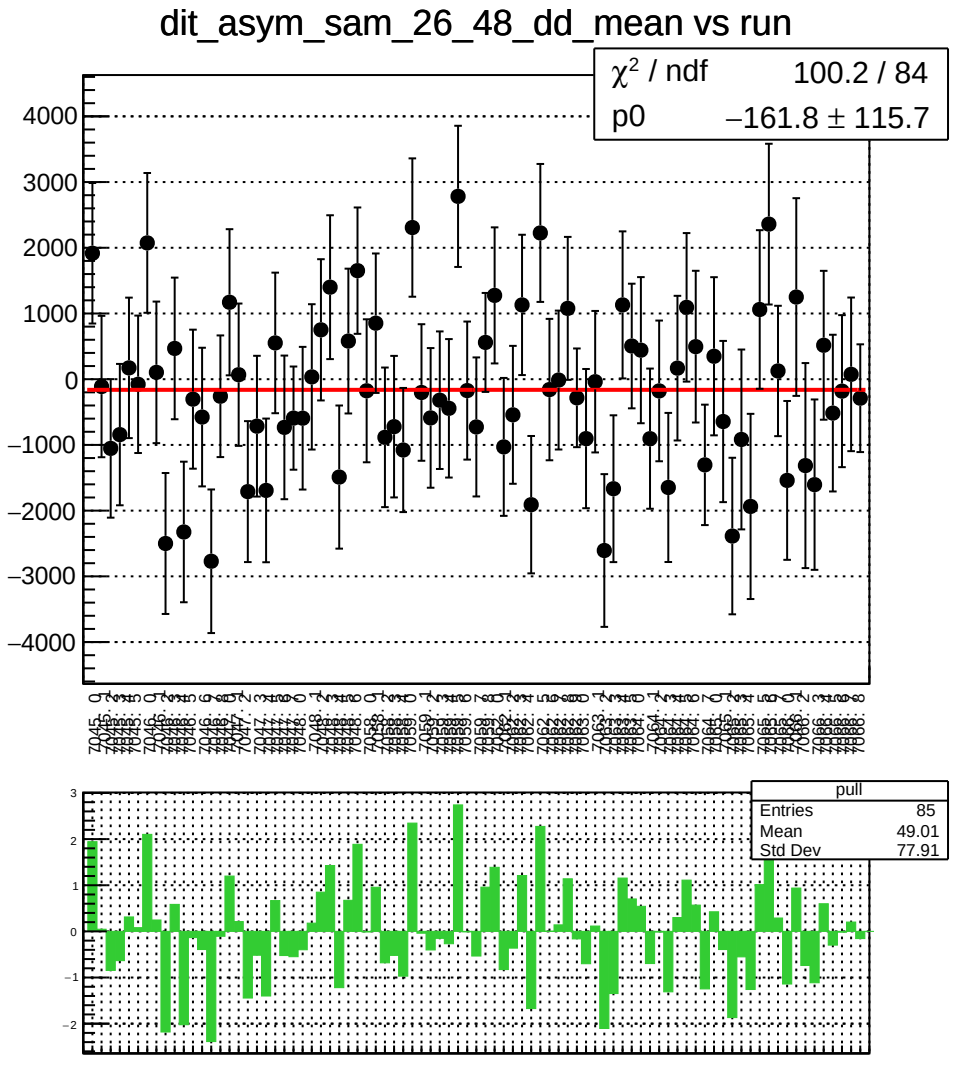

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.7 / 84
p0 −173.5 ± 105
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −320.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.0008659
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

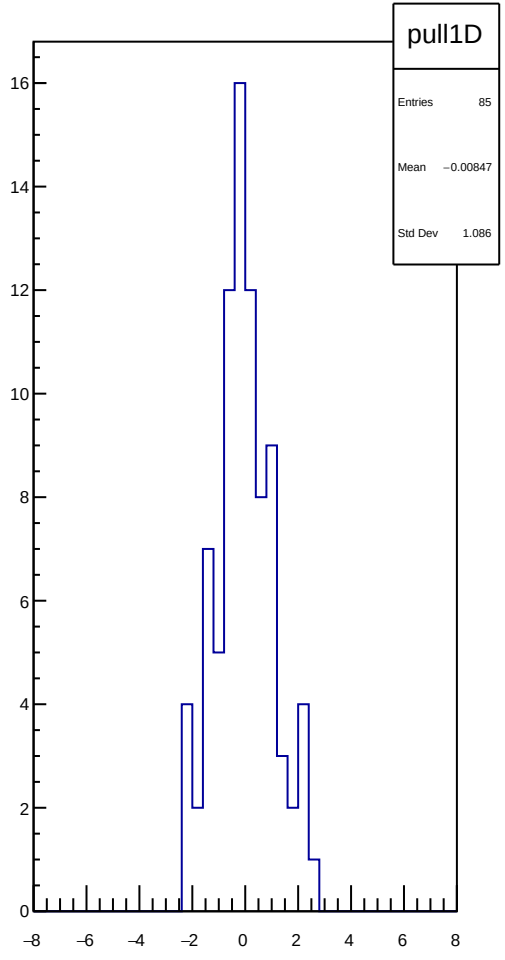

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3864 / 84
p0 95.2 ± 0.07426
115
110
105
100
95
90

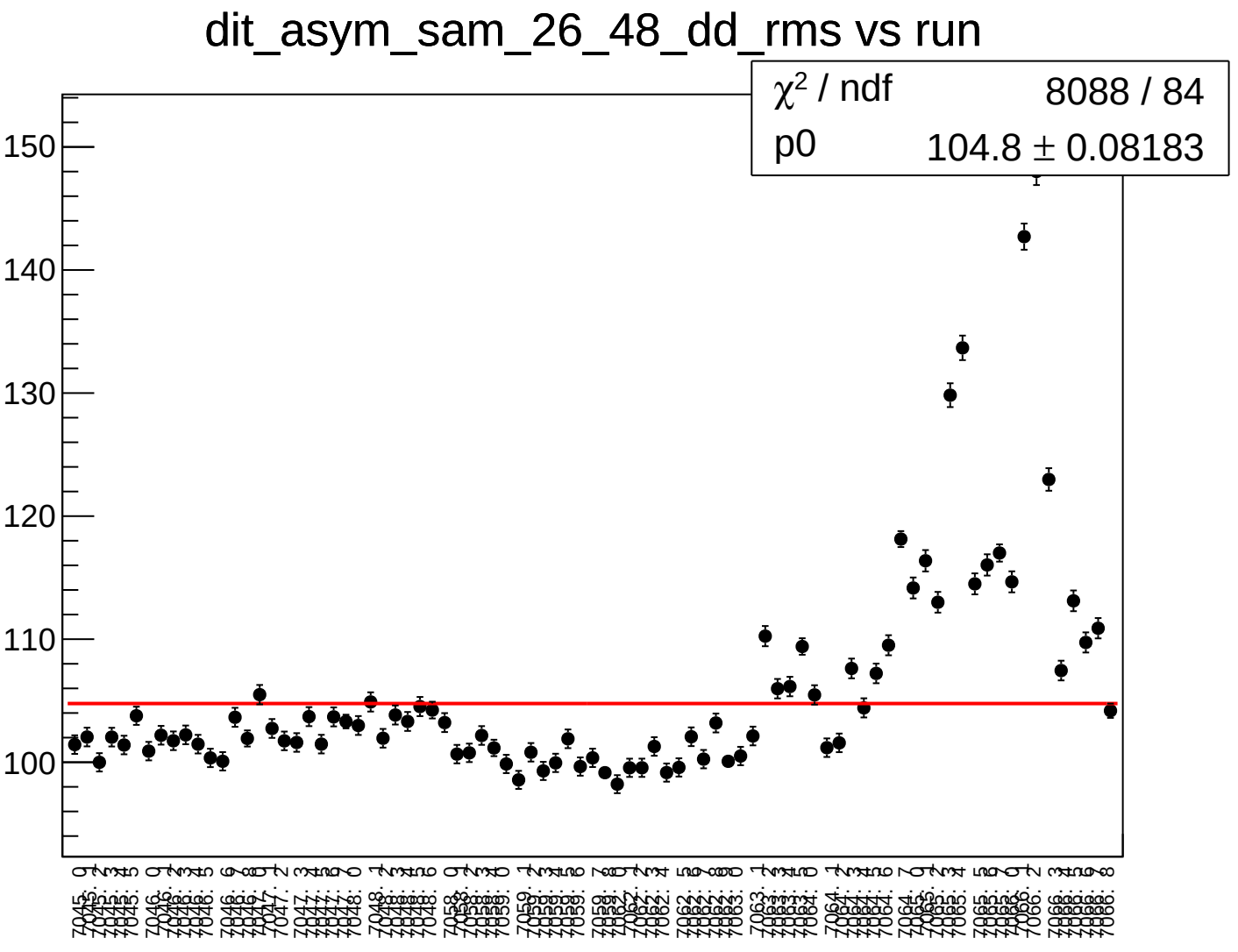

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.38 / 84
p0 917.8 ± 626.2
pull
Entries 85
Mean 256.6
Std Dev 0

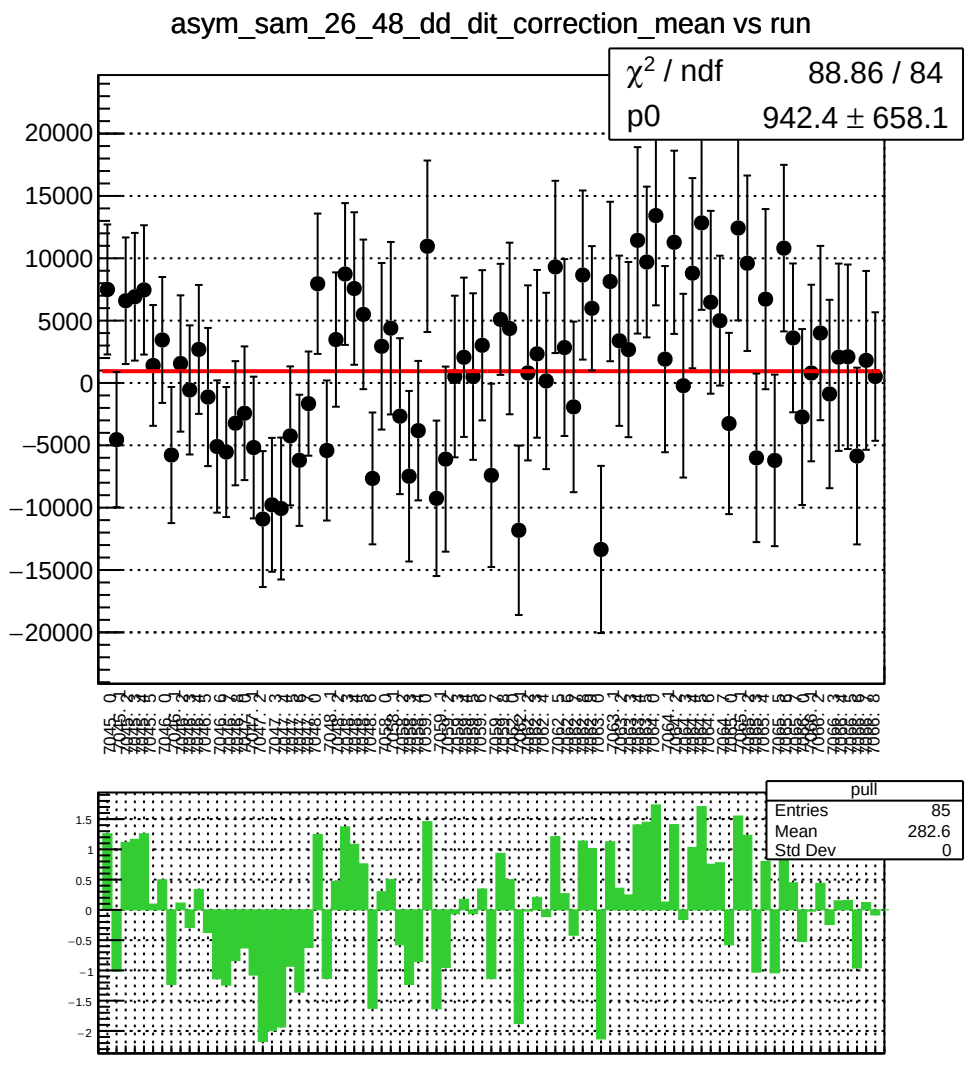

pull1D
Entries 85
Mean 0.02767
Std Dev 1.019

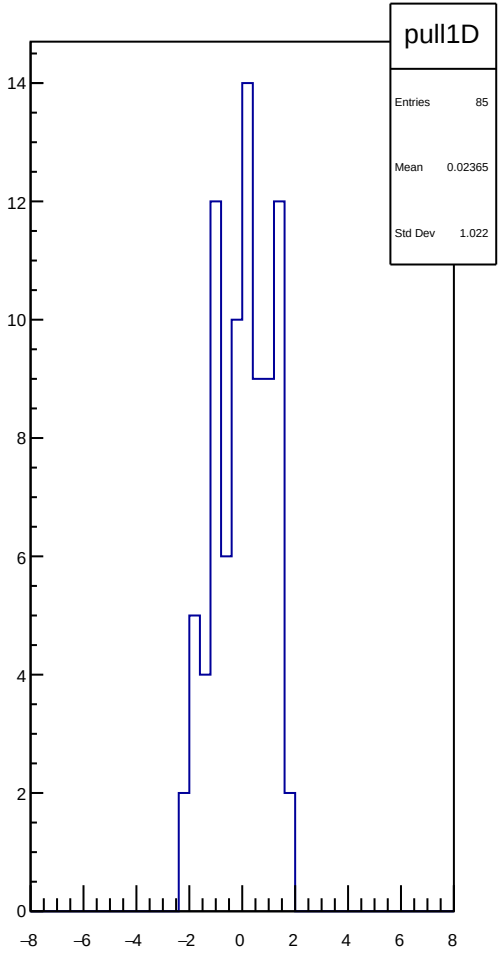

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.015e+04 / 84
p0 563 ± 0.4428
700
650
600
550
500
450

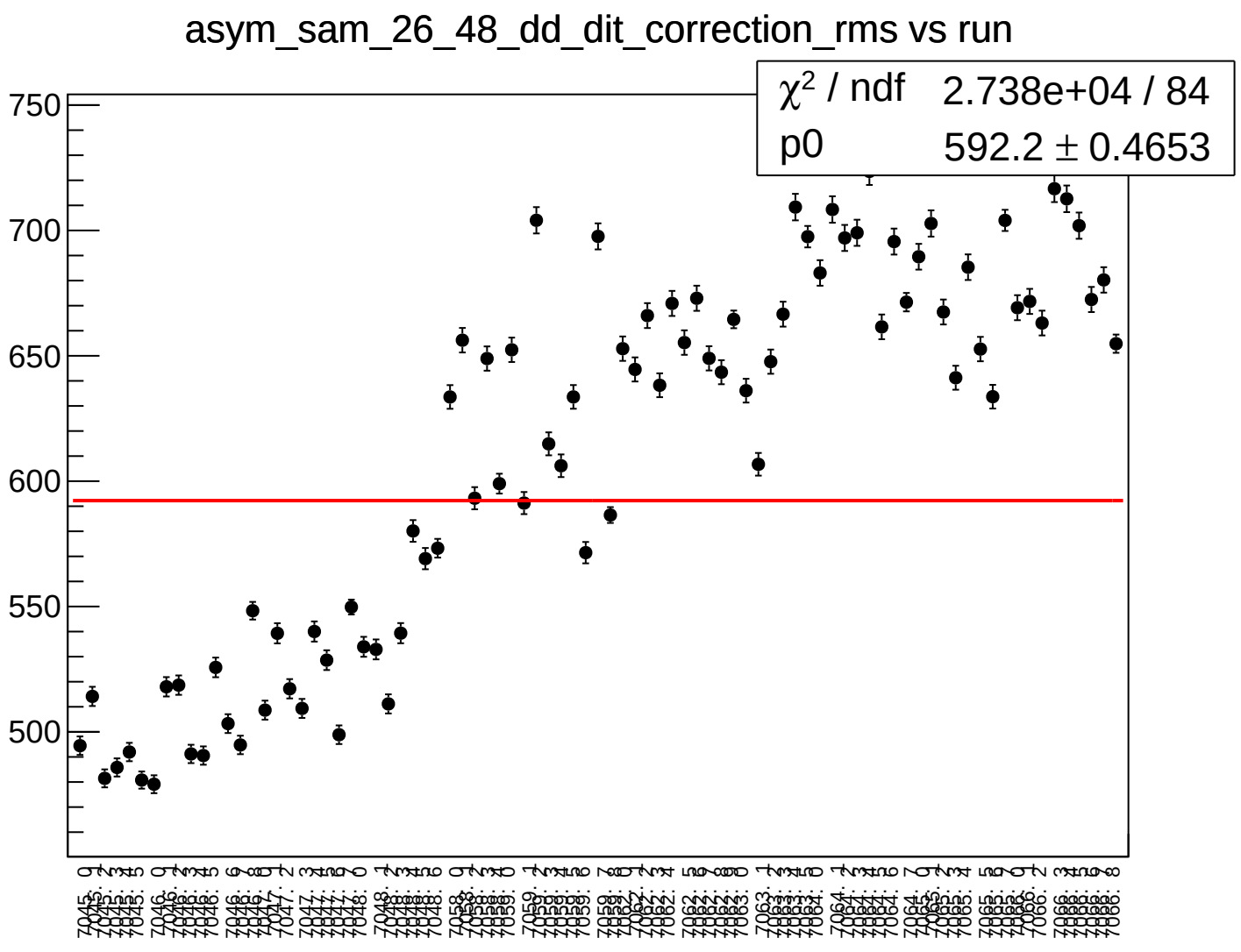

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.2 / 84
p0 −161.8 ± 115.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean 49.01
Std Dev 77.91
3
2
1
0
−1
−2

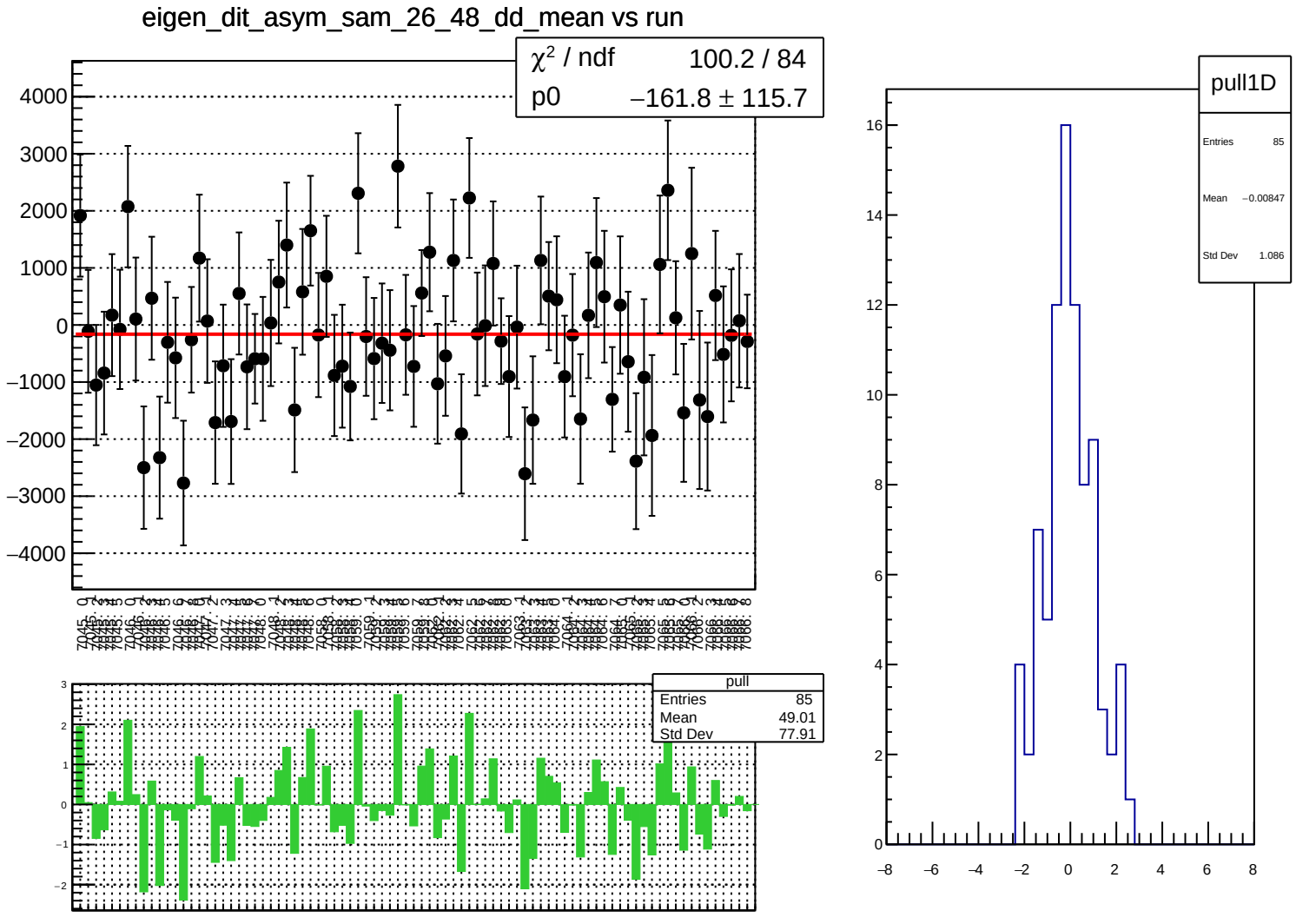

pull1D
Entries 85
Mean −0.00847
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

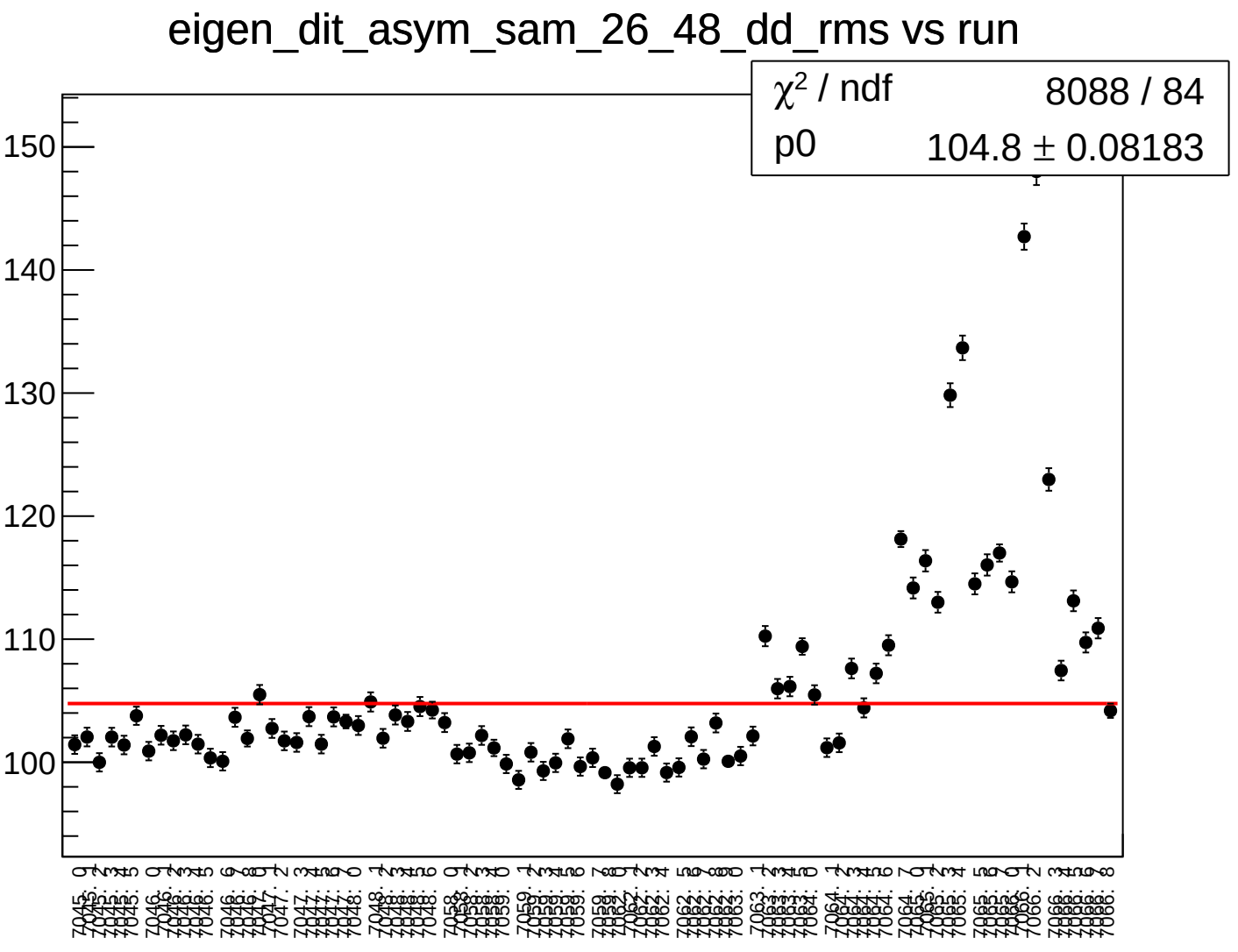

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8088 / 84
p0 104.8 ± 0.08183
150
140
130
120
110
100

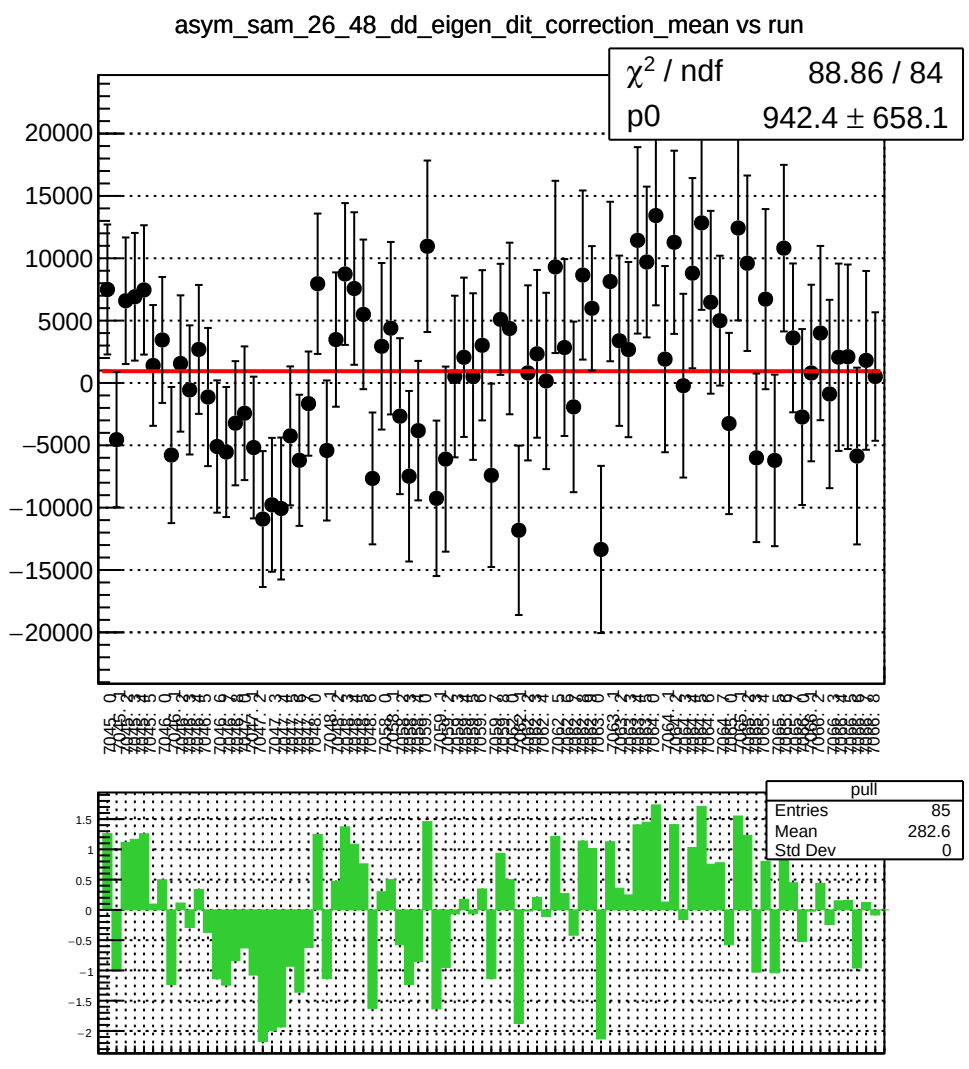

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 88.86 / 84
p0 942.4 ± 658.1
pull
Entries 85
Mean 282.6
Std Dev 0

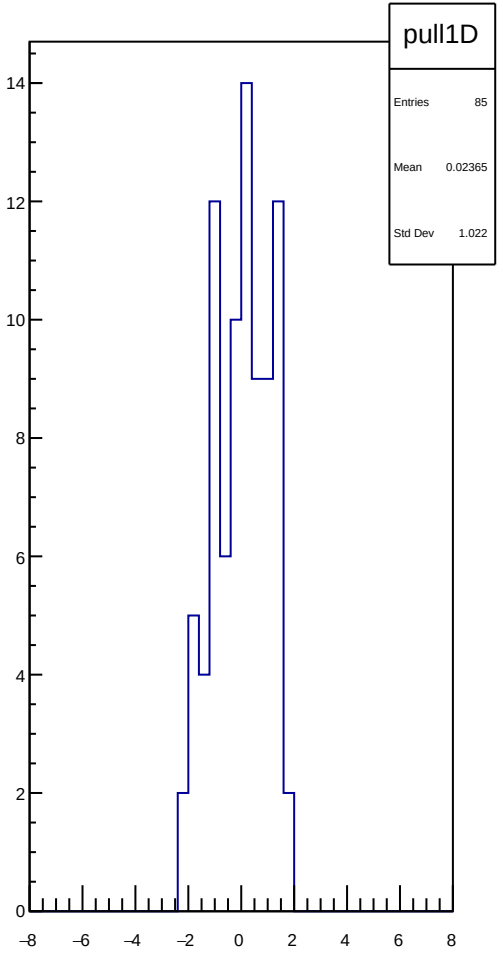

pull1D
Entries 85
Mean 0.02365
Std Dev 1.022

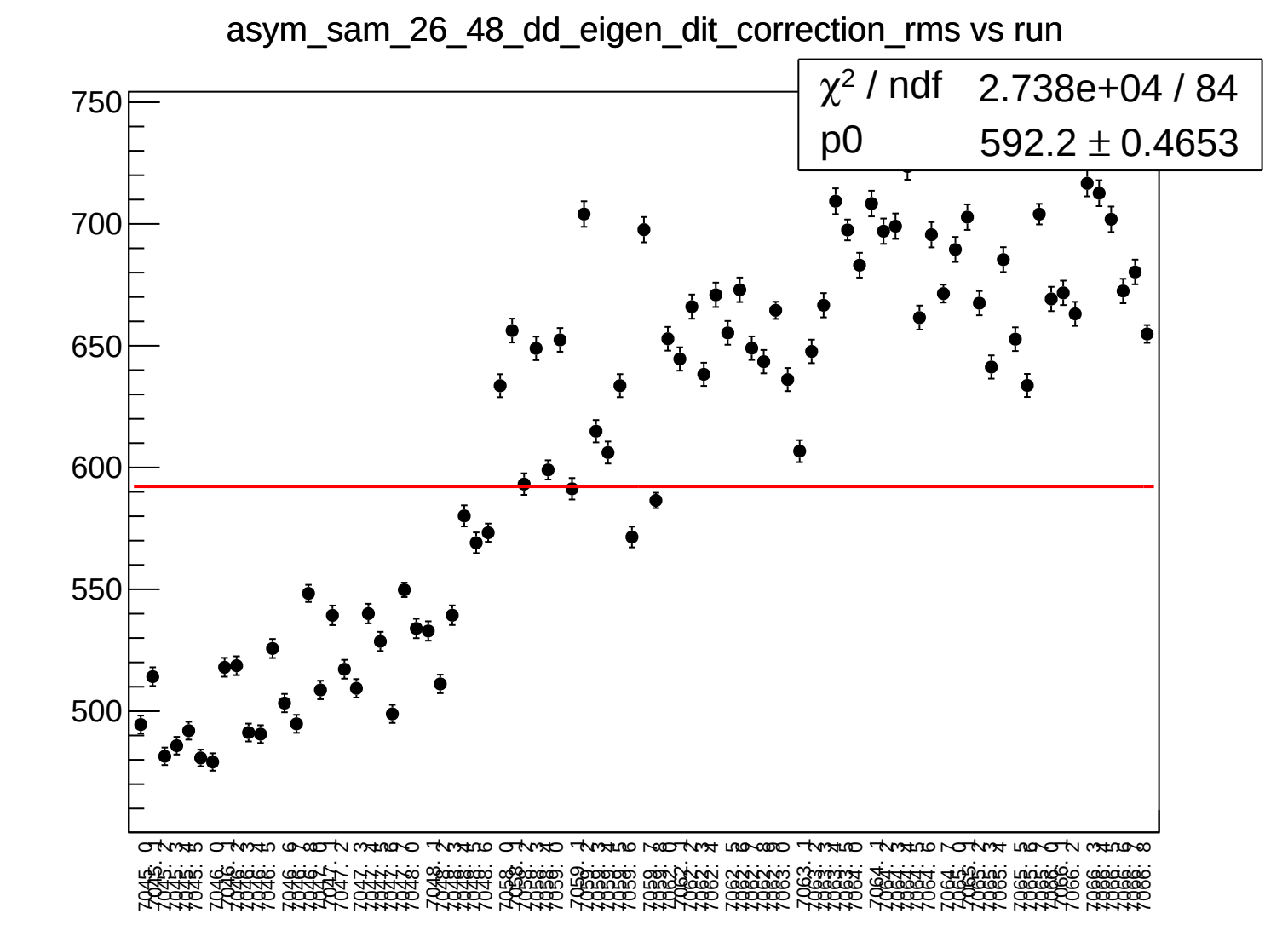

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2.738e+04 / 84
p0 592.2 ± 0.4653
750
700
650
600
550
500

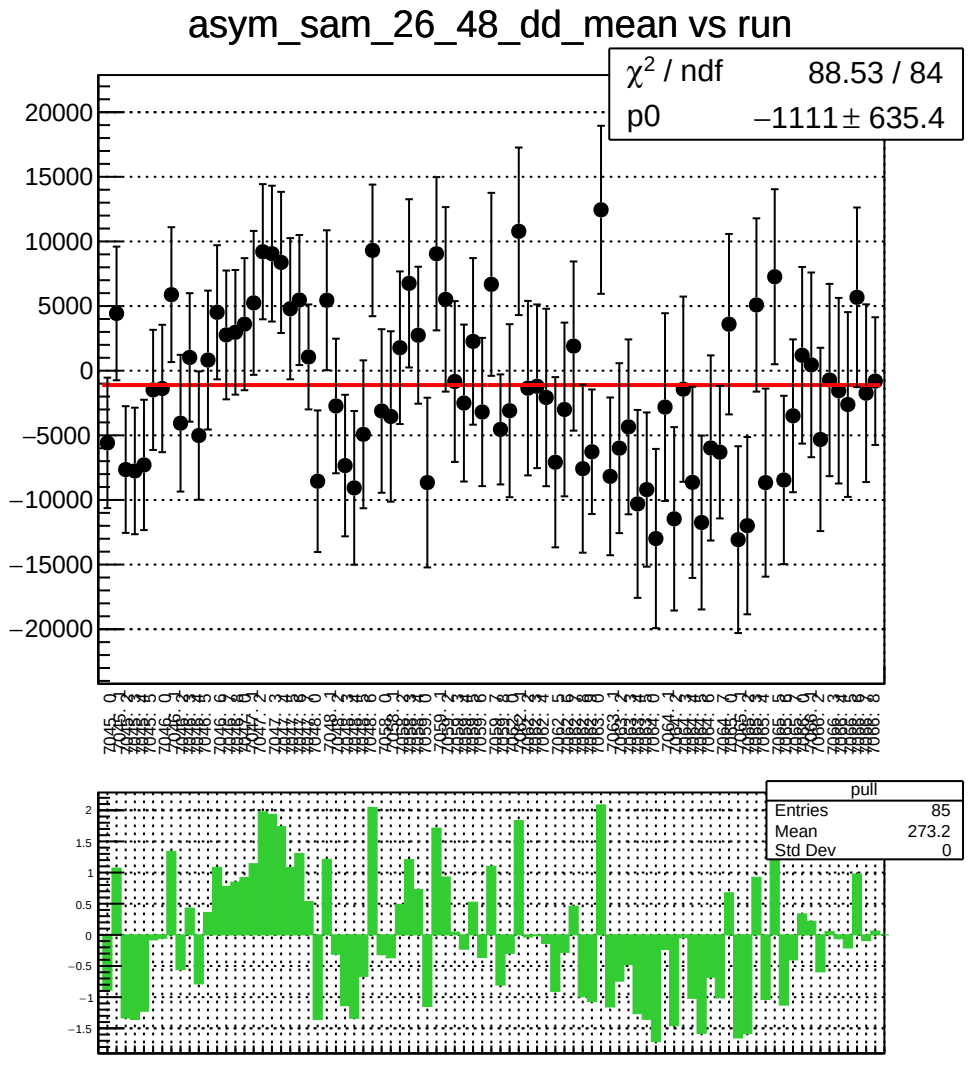

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.2 / 84
p0 −161.8 ± 115.7
pull
Entries 85
Mean 49.01
Std Dev 77.91
pull1D
Entries 85
Mean −0.00847
Std Dev 1.086

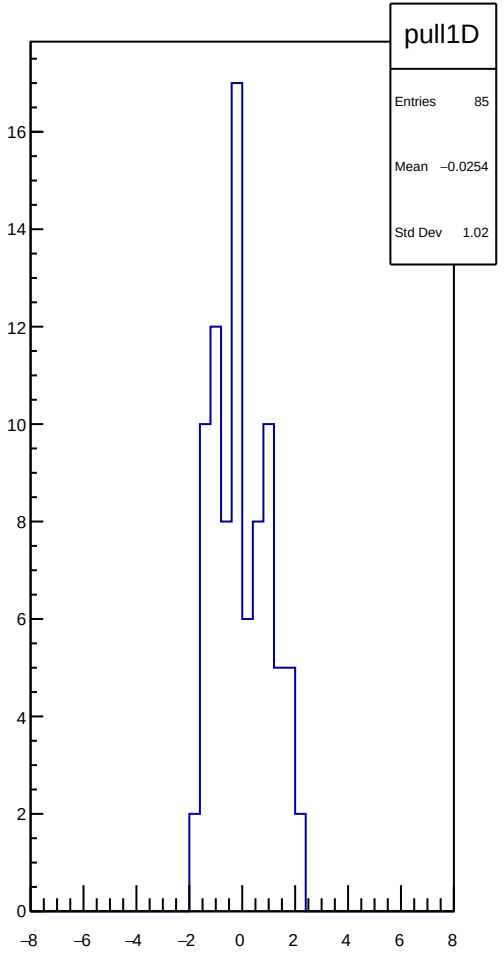

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8088 / 84
p0 104.8 ± 0.08183
150
140
130
120
110
100

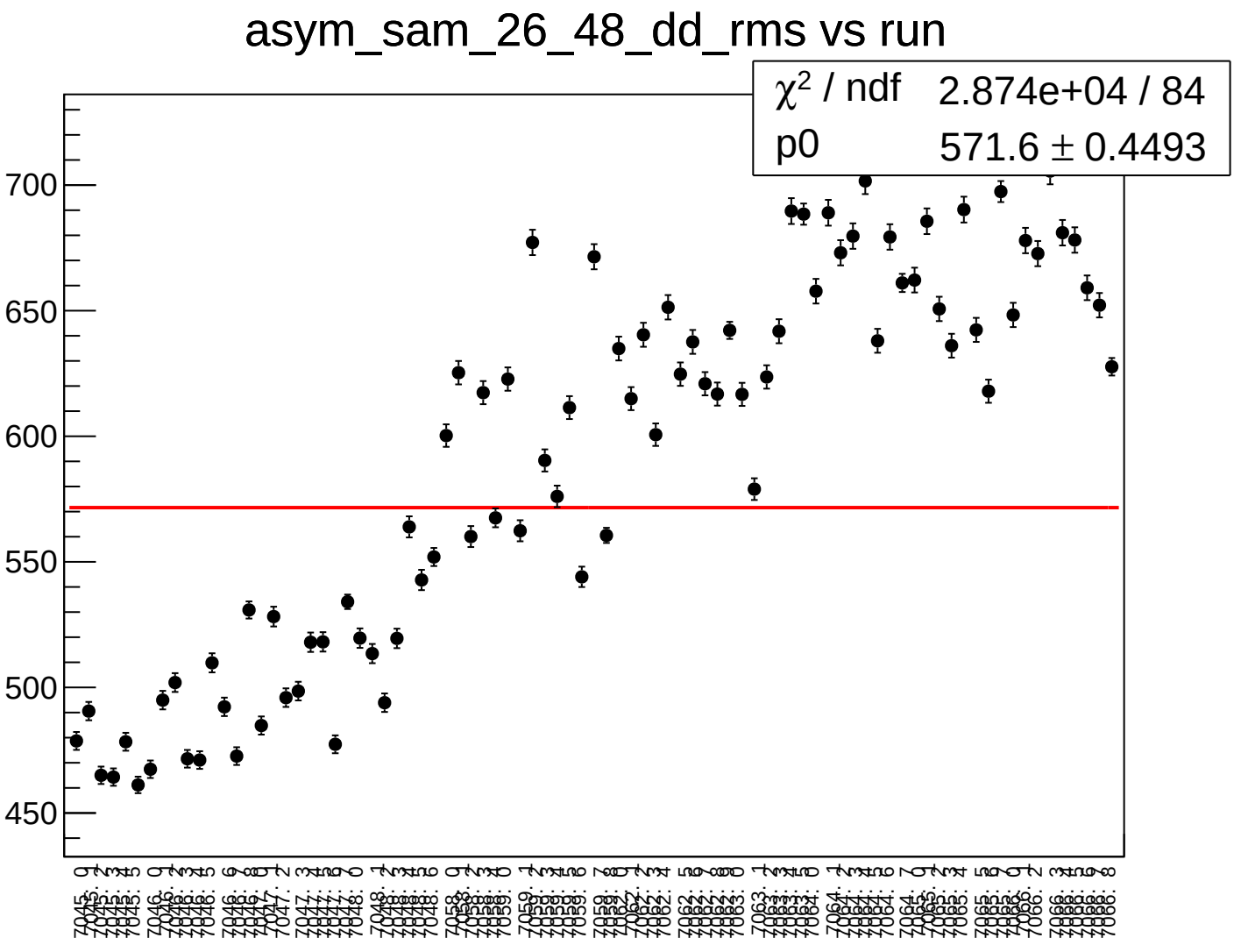

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.86 / 84
p0 942.4 ± 658.1
pull
Entries 85
Mean 282.6
Std Dev 0

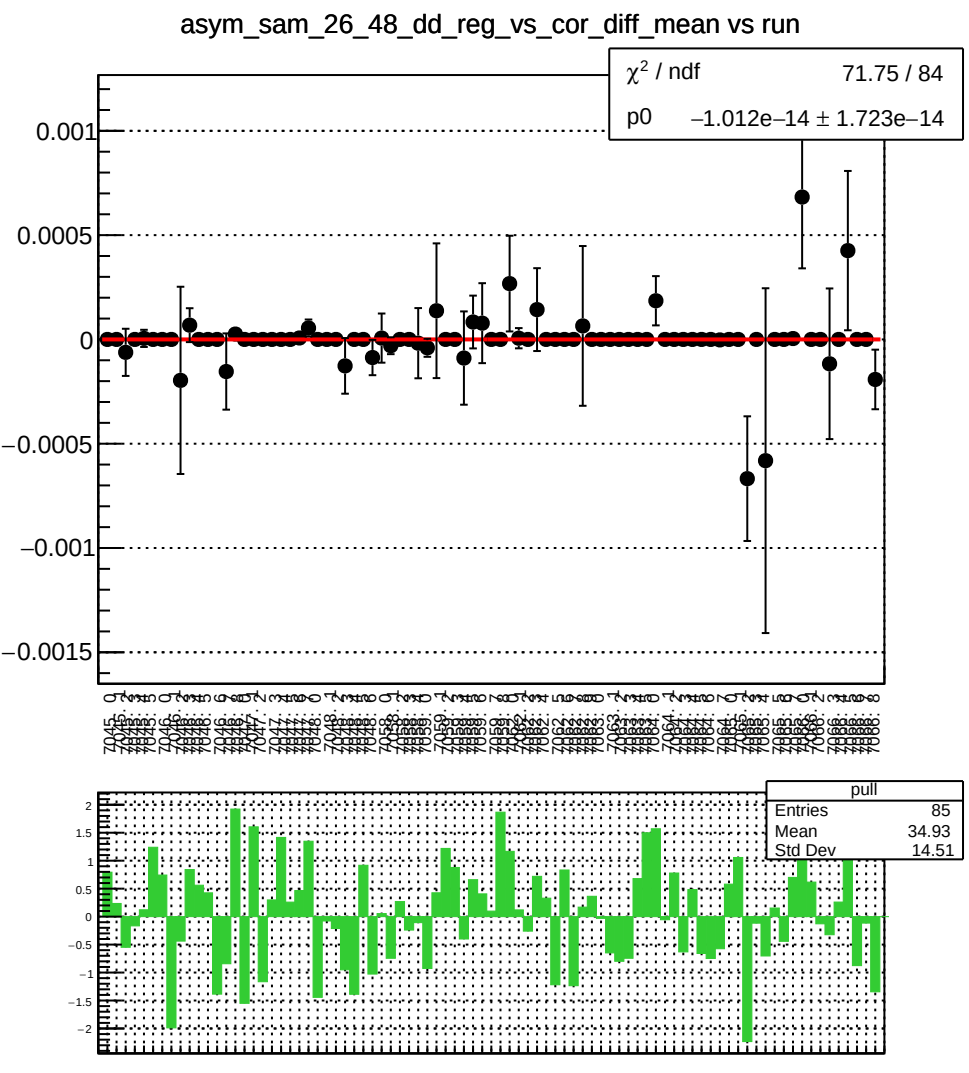

pull1D
Entries 85
Mean 0.02365
Std Dev 1.022

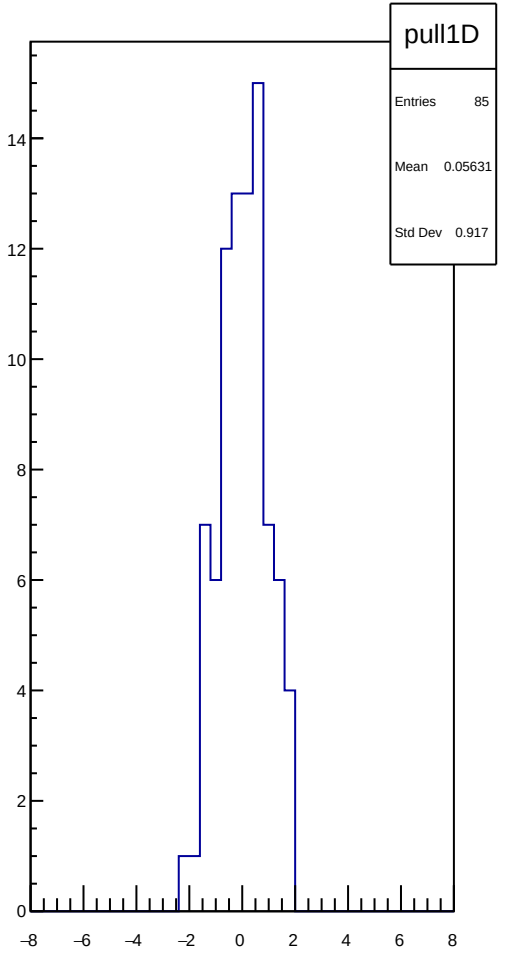

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.738e+04 / 84
p0 592.2 ± 0.4653
750
700
650
600
550
500

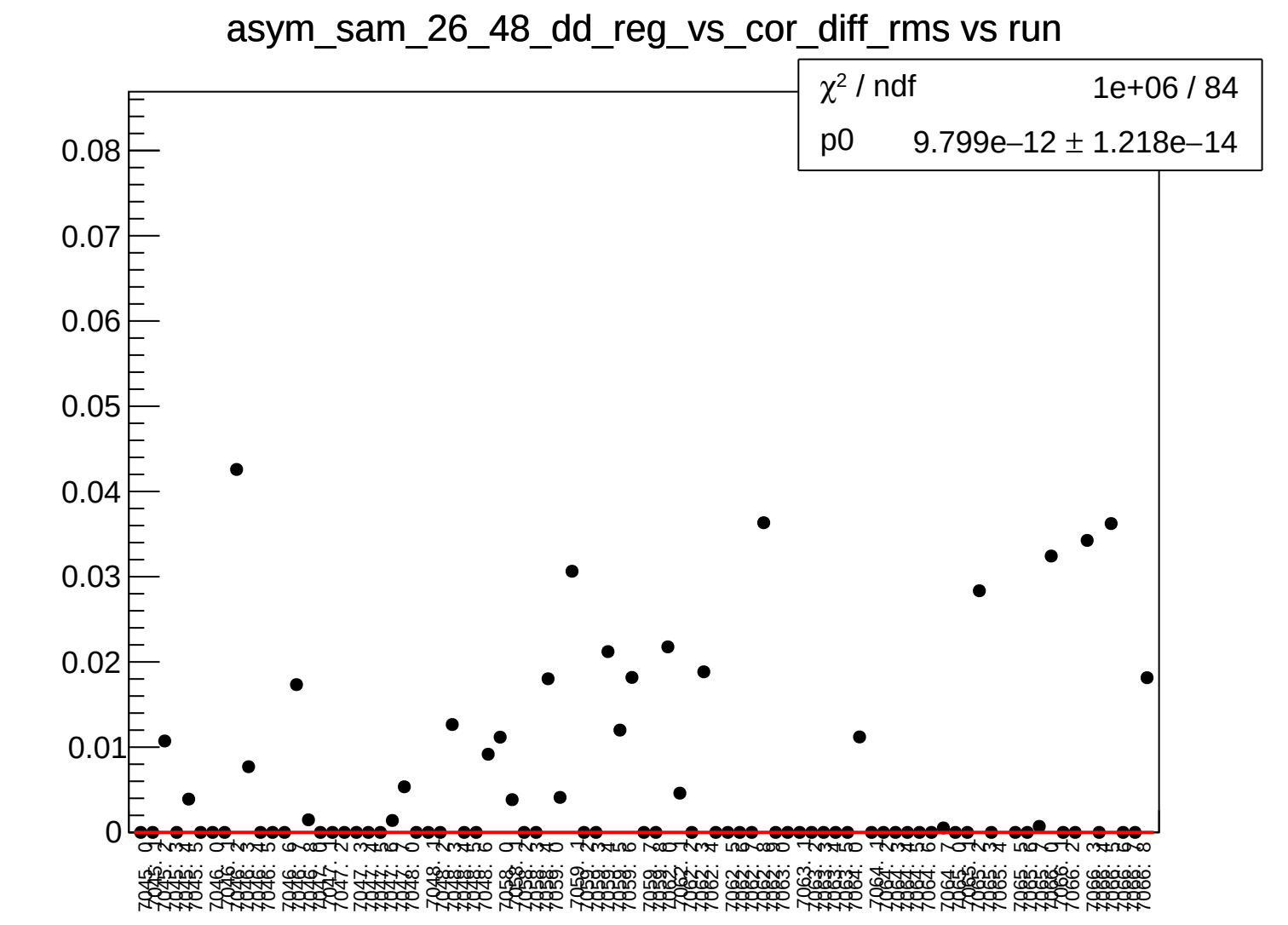

asym_sam_26_48_dd_mean vs run
χ² / ndf 88.53 / 84
p0 −1111 ± 635.4
pull
Entries 85
Mean 273.2
Std Dev 0

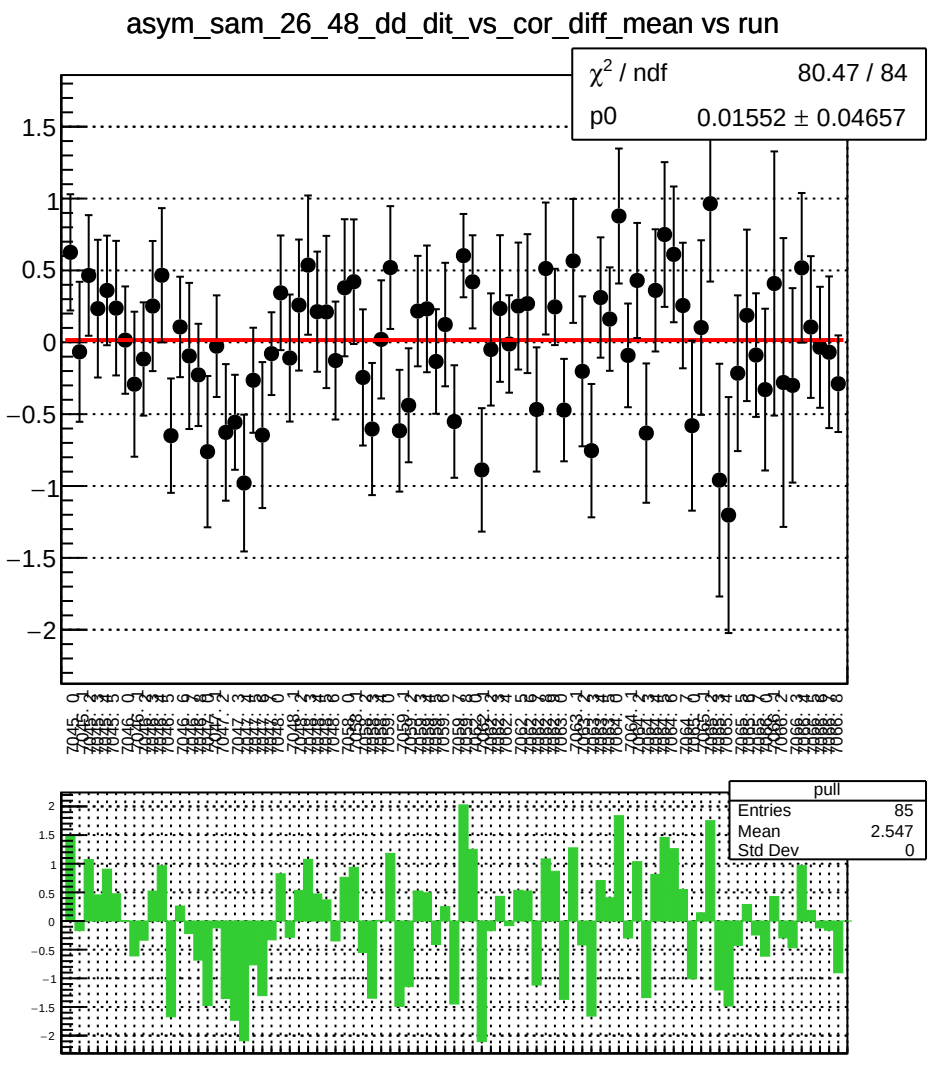

pull1D
Entries 85
Mean −0.0254
Std Dev 1.02

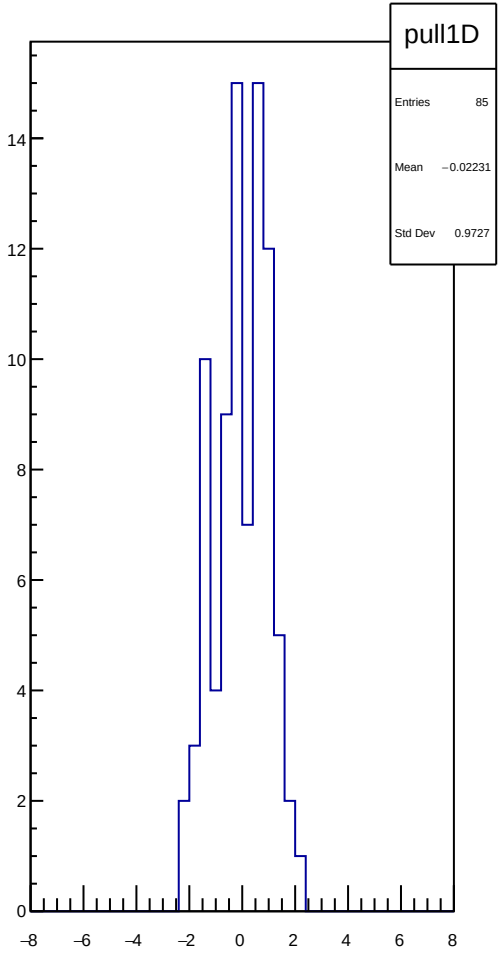

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.874e+04 / 84
p0 571.6 ± 0.4493
700
650
600
550
500
450

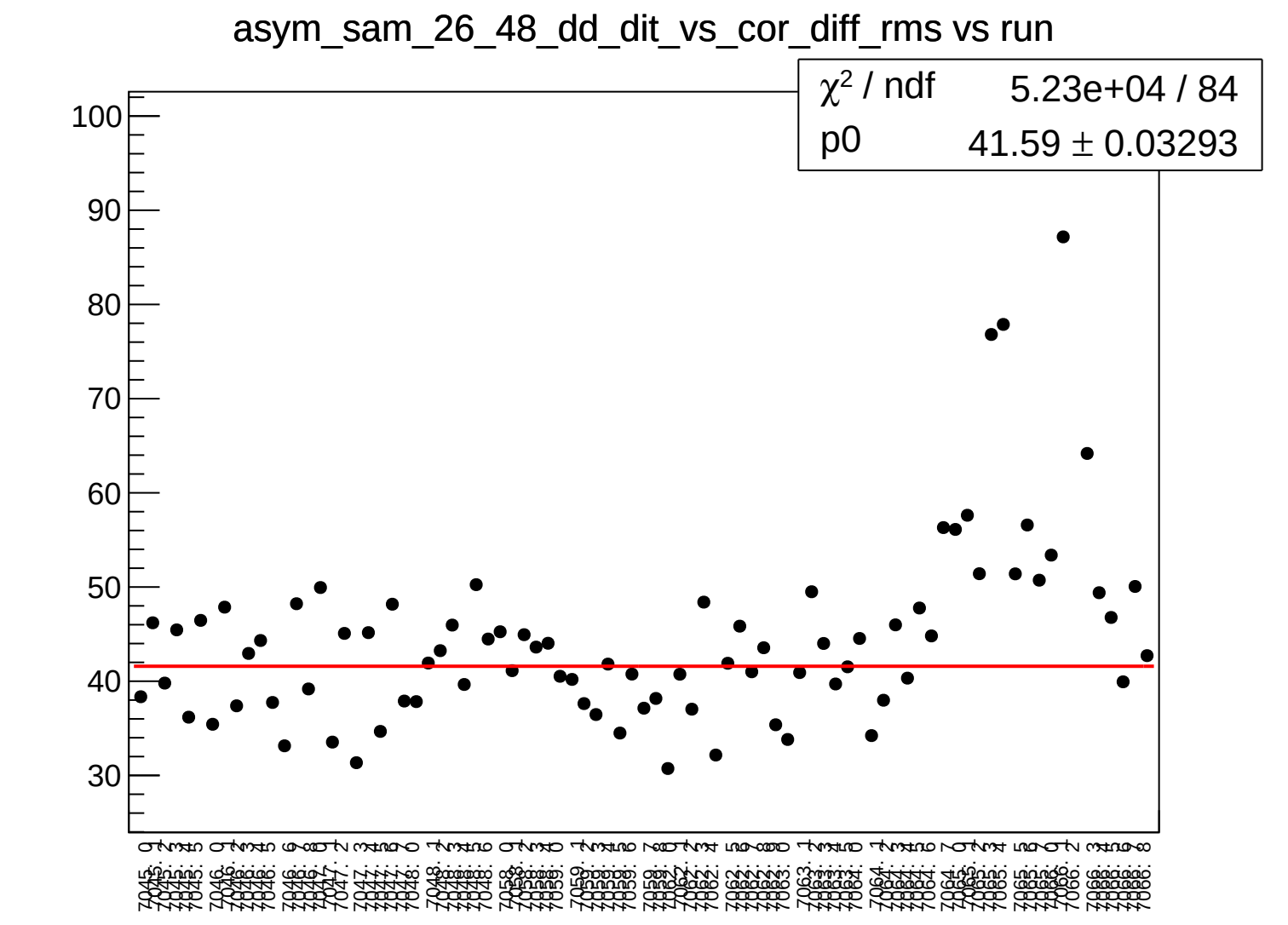

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.75 / 84
p0 −1.012e−14 ± 1.723e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 34.93
Std Dev 14.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

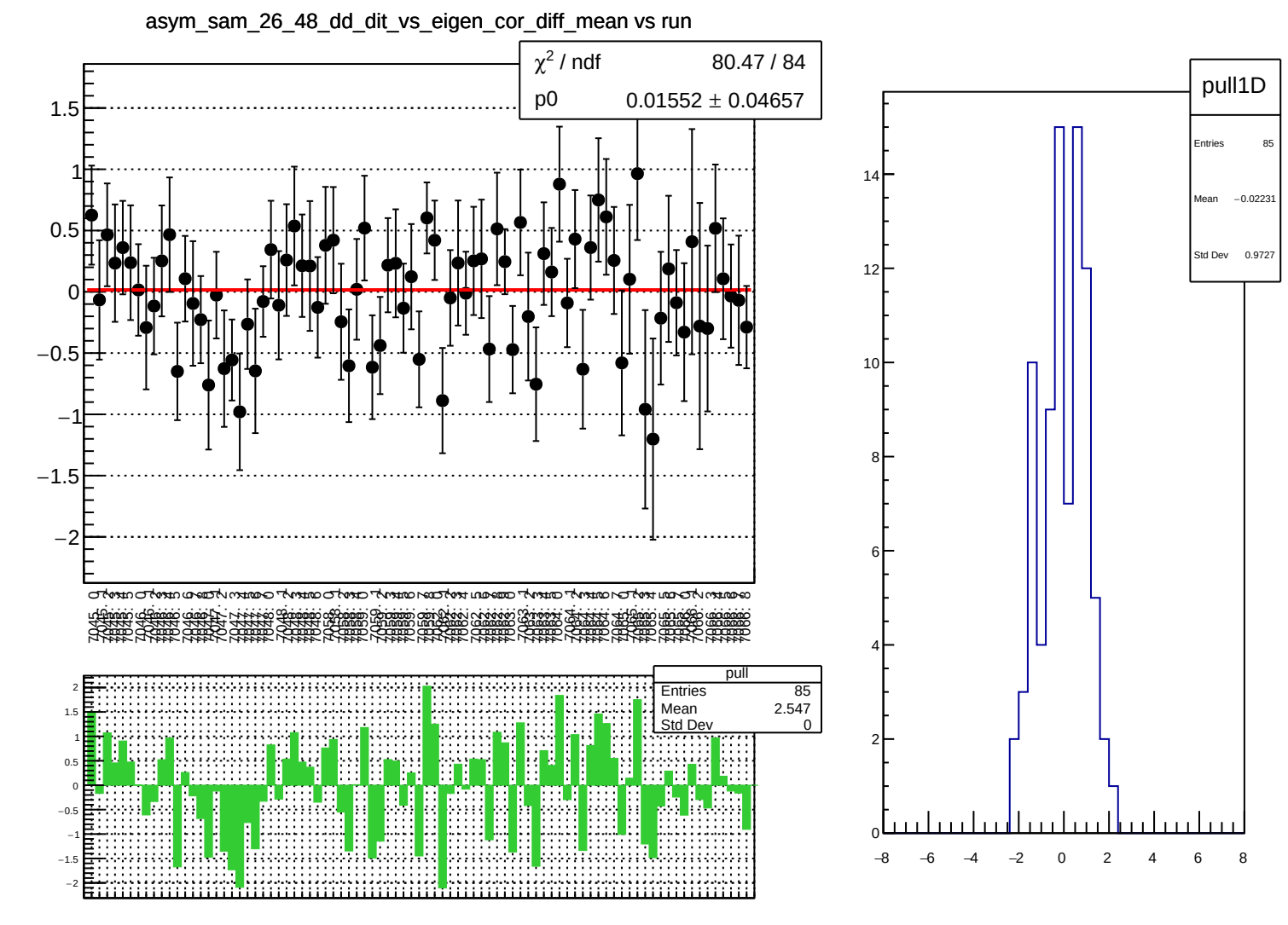

pull1D
Entries 85
Mean 0.05631
Std Dev 0.917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

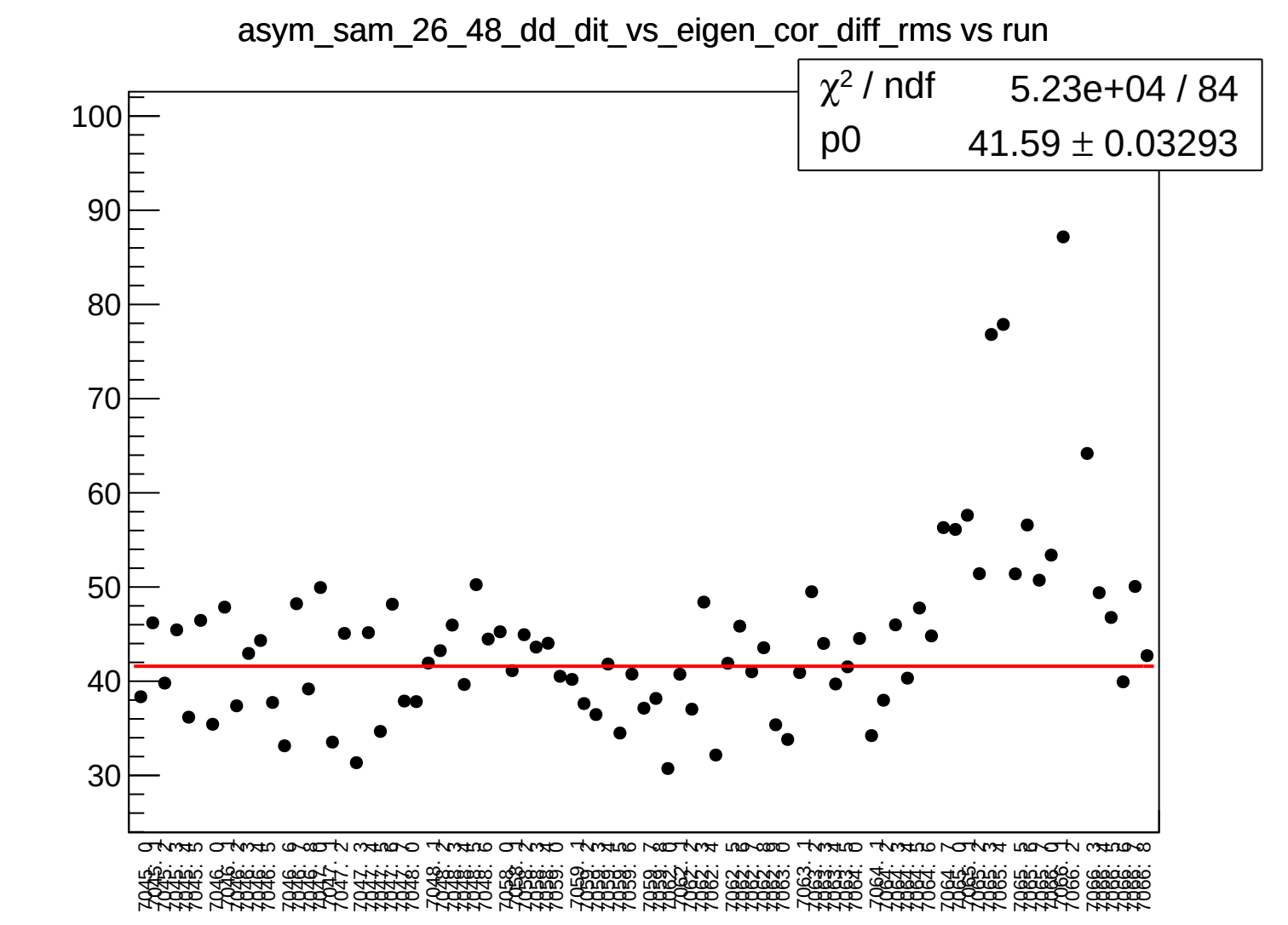

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1e+06 / 84
p0 9.799e−12 ± 1.218e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

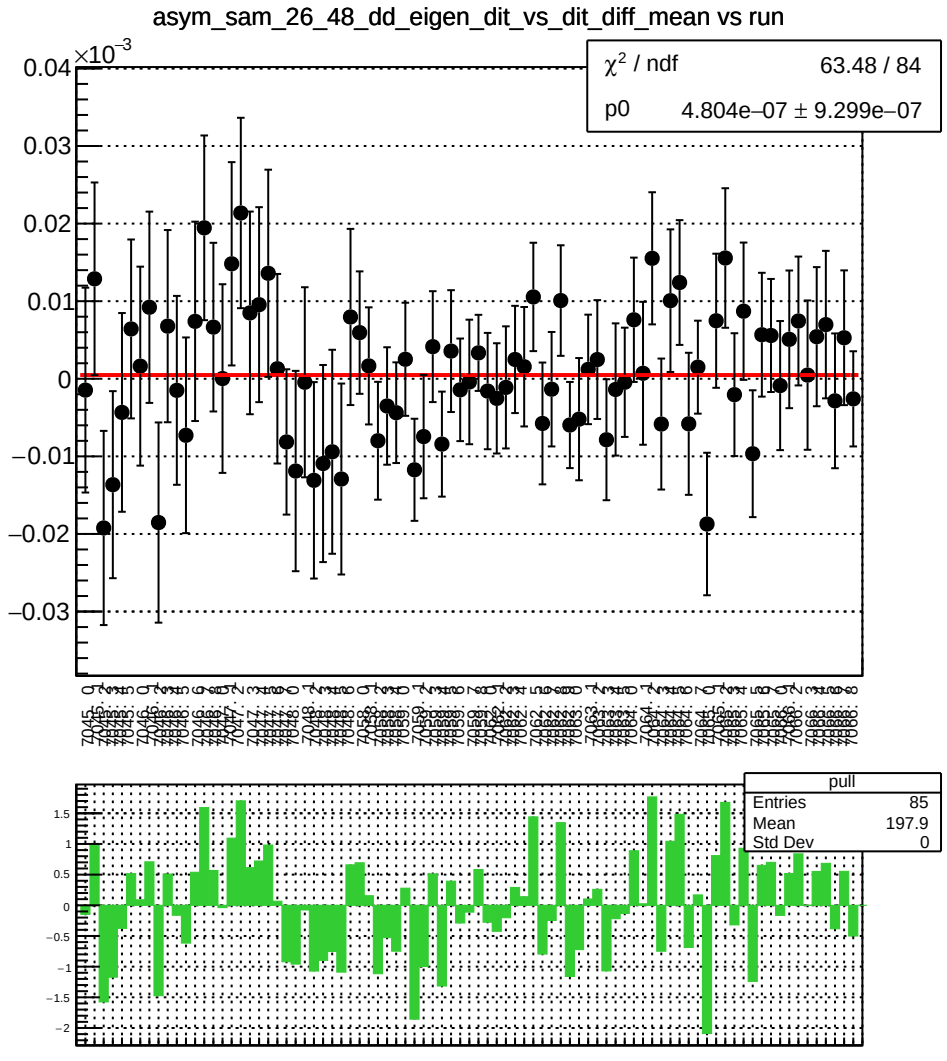

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 84
p0 0.01552 ± 0.04657
pull
Entries 85
Mean 2.547
Std Dev 0

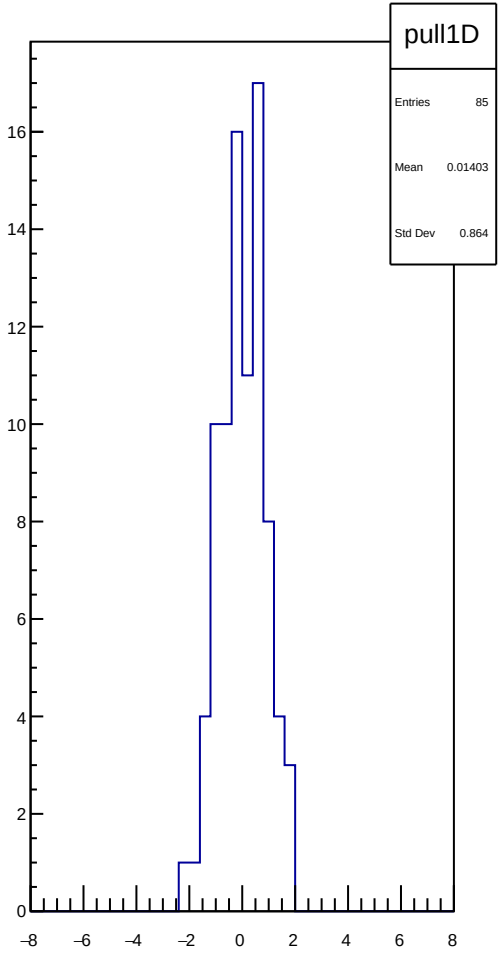

pull1D
Entries 85
Mean −0.02231
Std Dev 0.9727

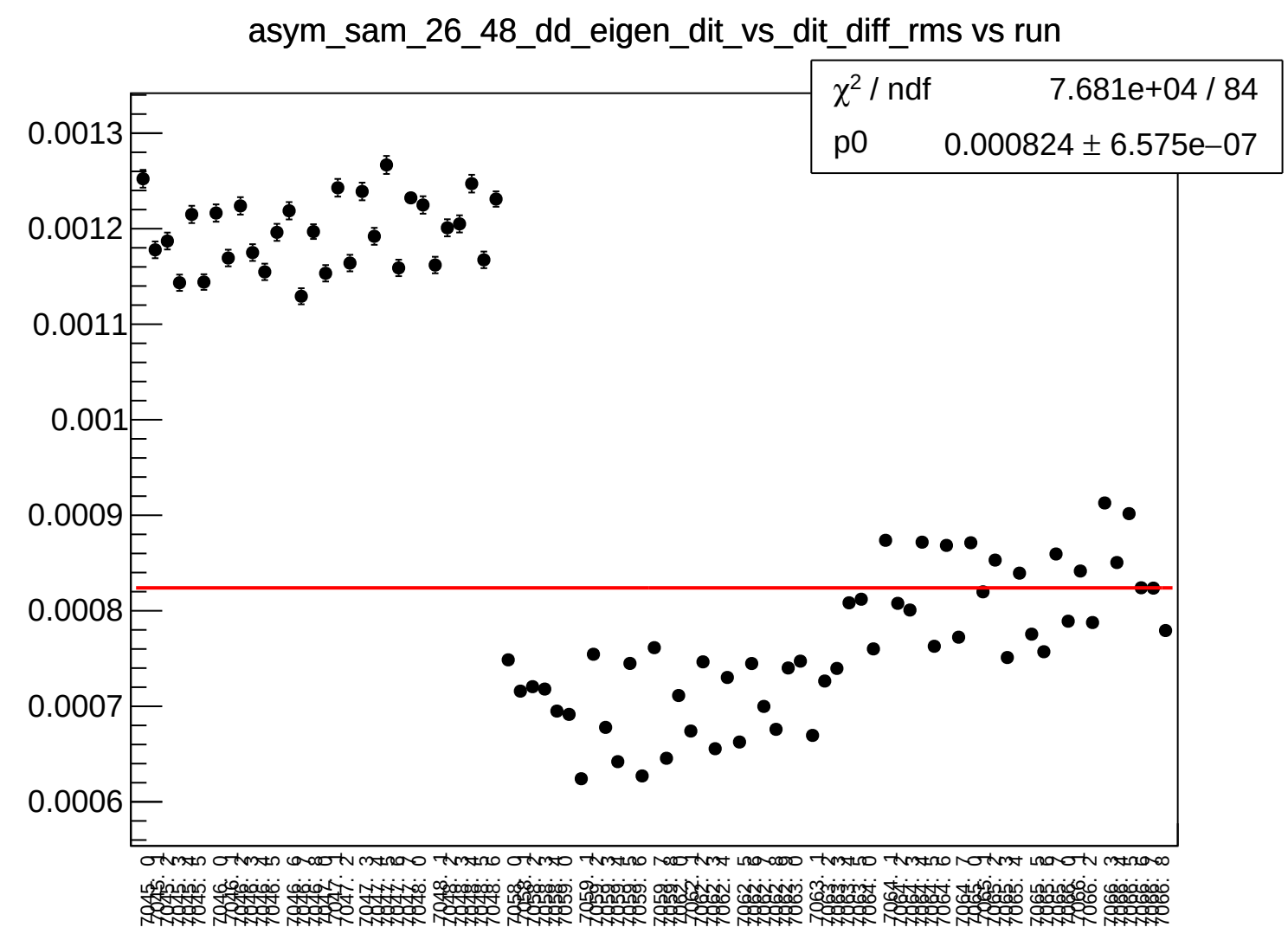

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 84
p0 41.59 ± 0.03293
100
90
80
70
60
50
40
30

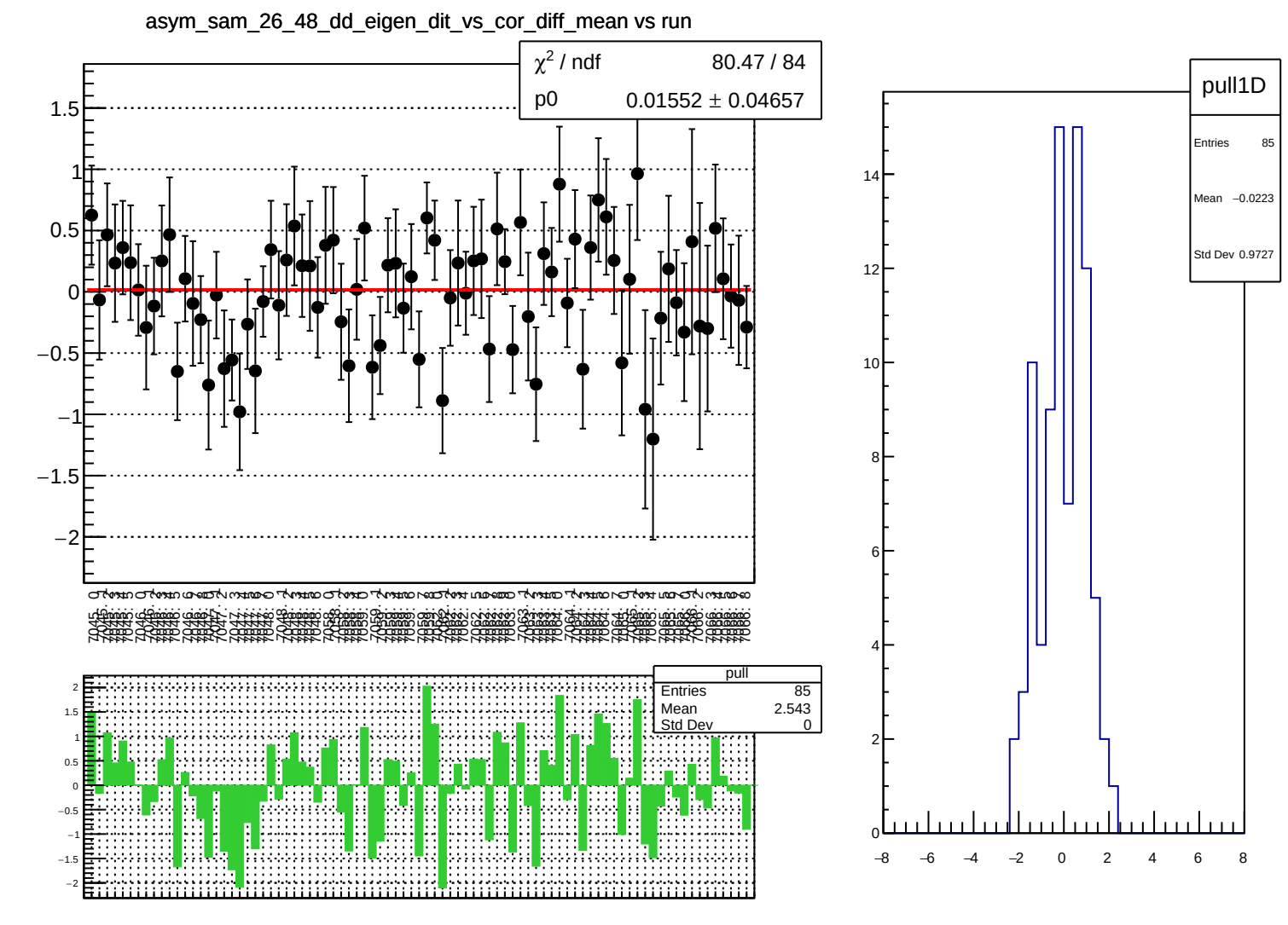

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.47 / 84
p0 0.01552 ± 0.04657
pull
Entries 85
Mean 2.547
Std Dev 0
pull1D
Entries 85
Mean −0.02231
Std Dev 0.9727

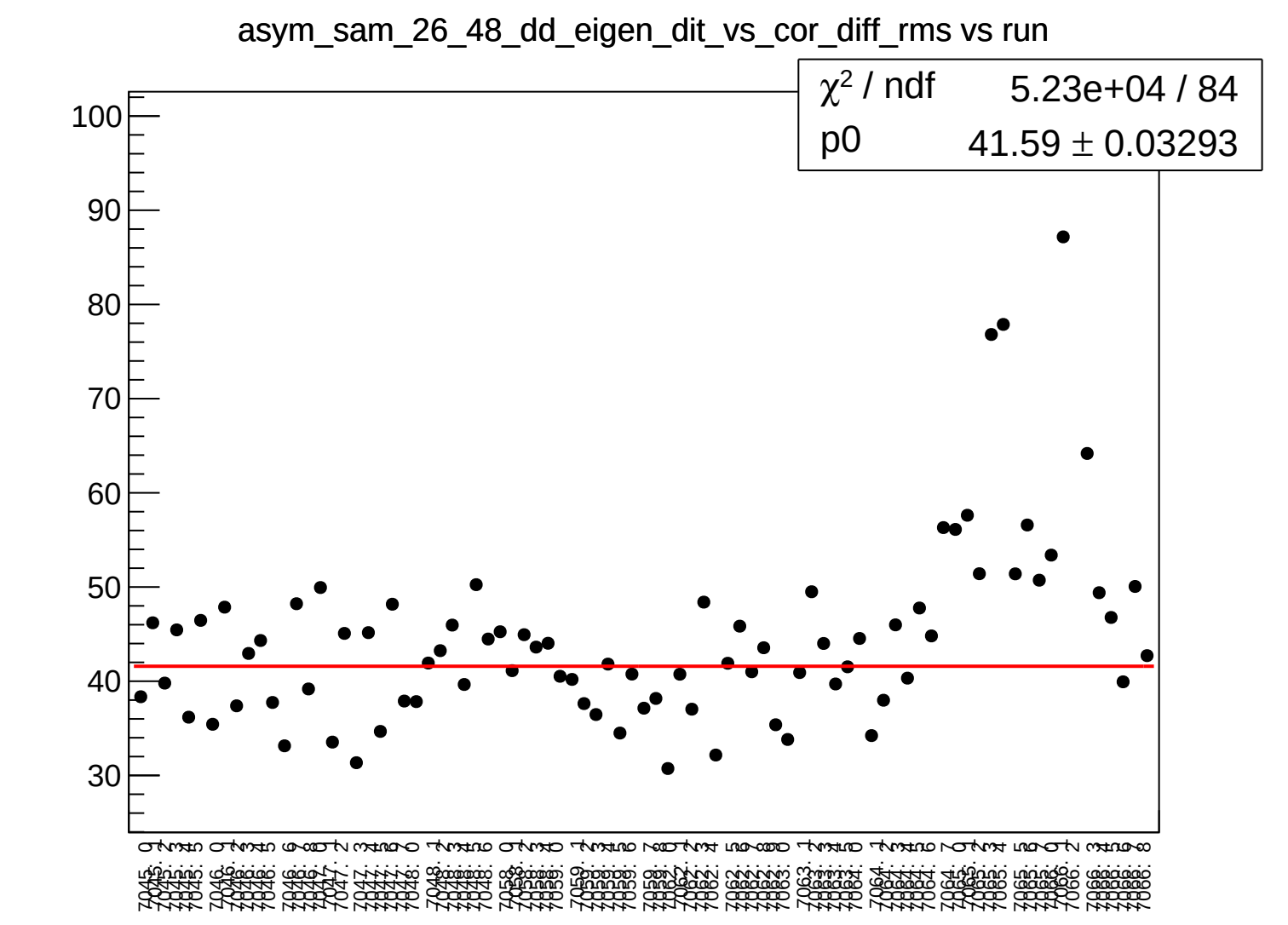

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 84
p0 41.59 ± 0.03293
100
90
80
70
60
50
40
30

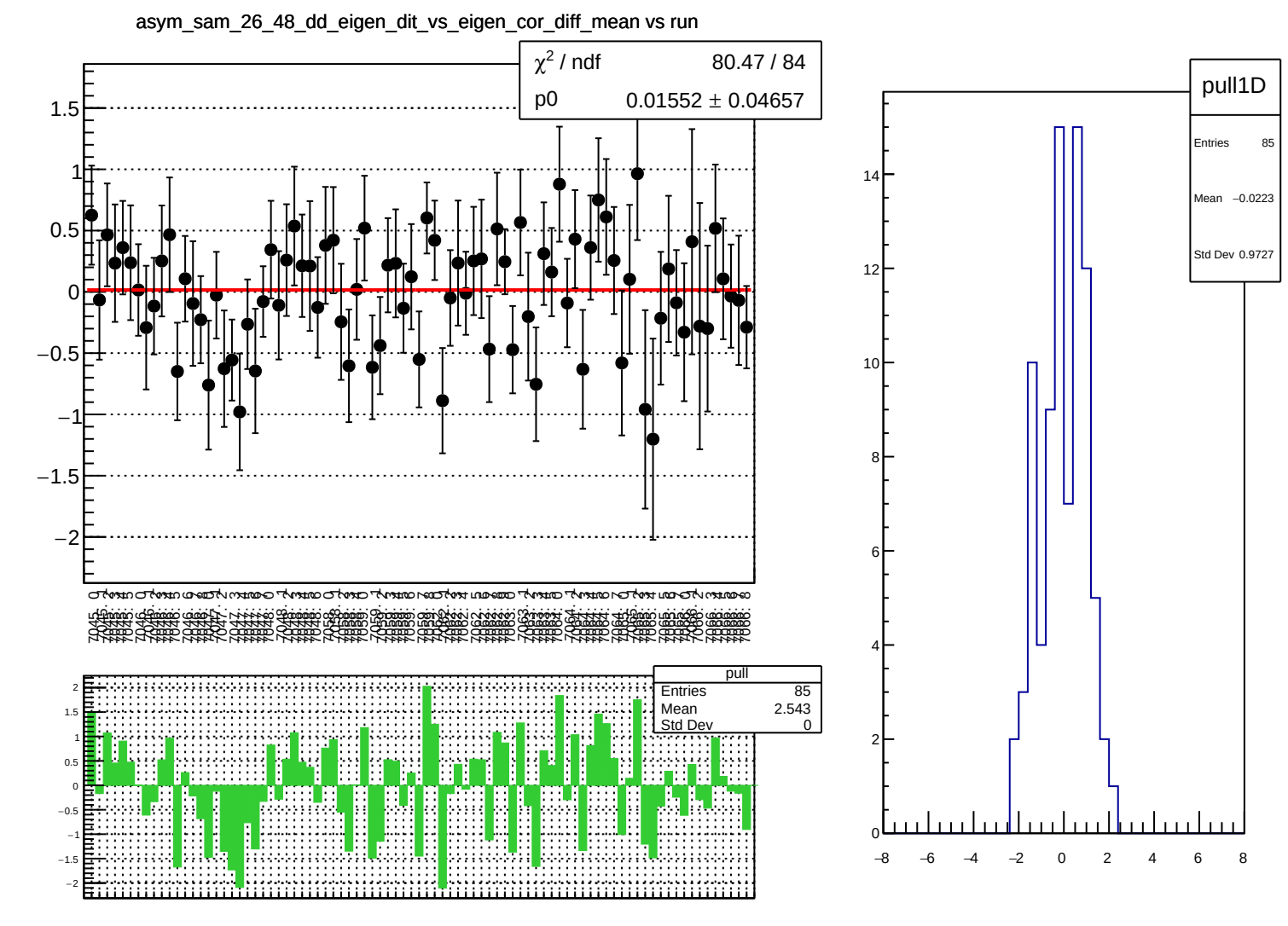

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 63.48 / 84
p0 4.804e−07 ± 9.299e−07
×10⁻³
pull
Entries 85
Mean 197.9
Std Dev 0

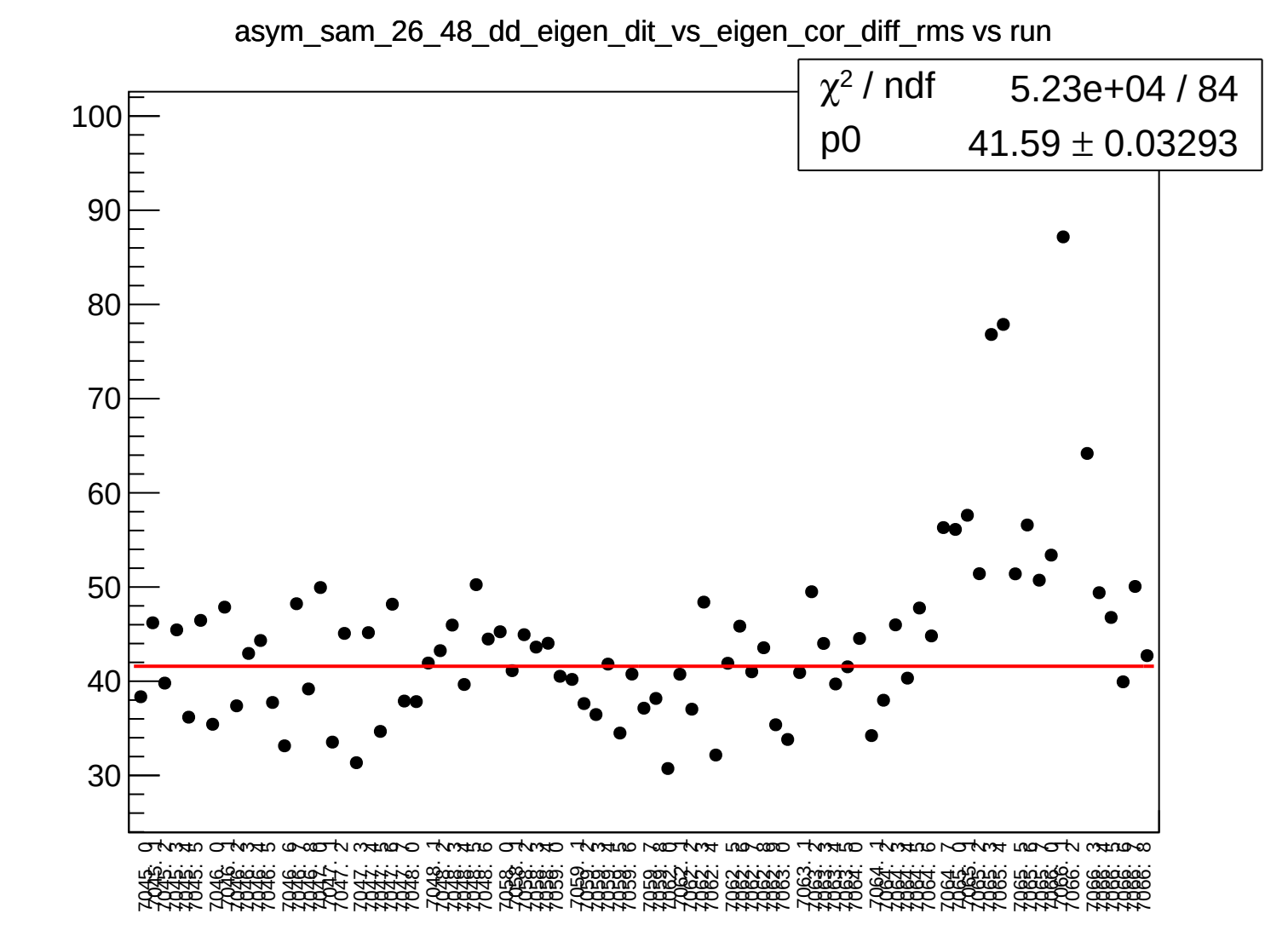

pull1D
Entries 85
Mean 0.01403
Std Dev 0.864

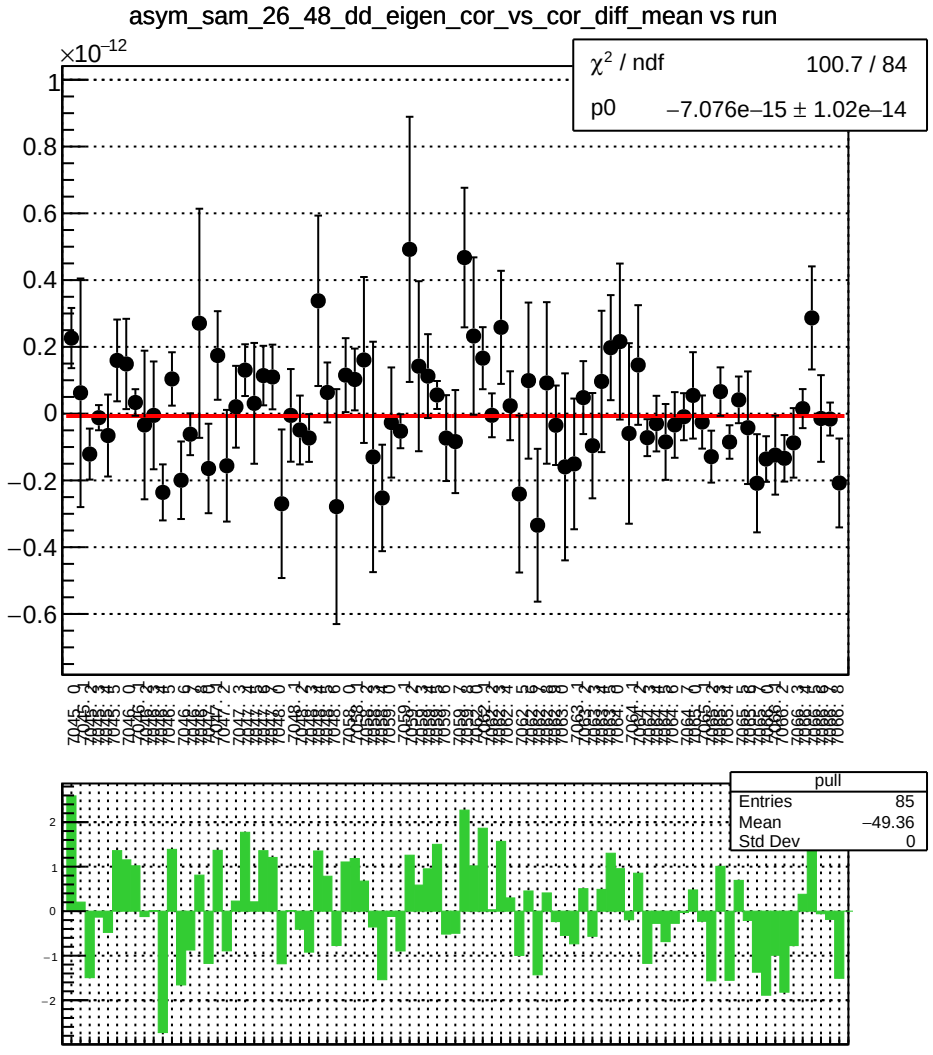

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.681e+04 / 84
p0 0.000824 ± 6.575e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

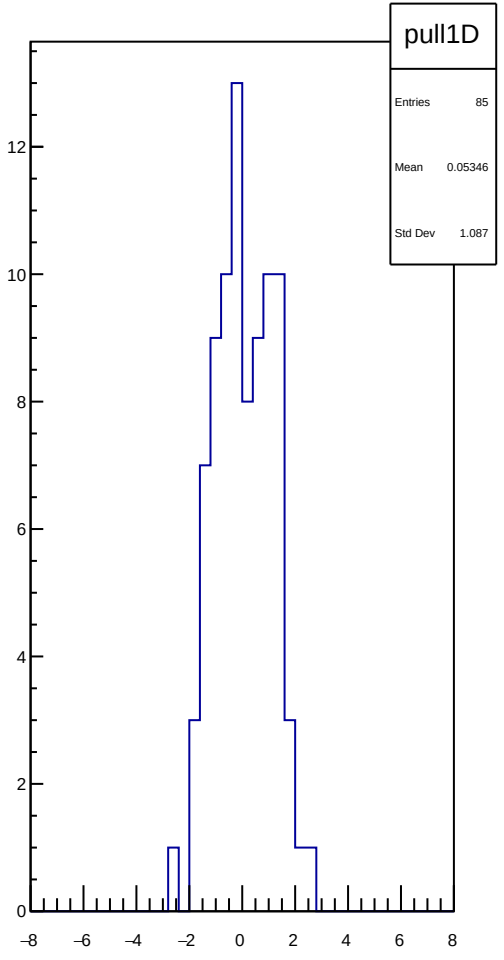

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 84
p0 0.01552 ± 0.04657
pull
Entries 85
Mean 2.543
Std Dev 0
pull1D
Entries 85
Mean −0.0223
Std Dev 0.9727

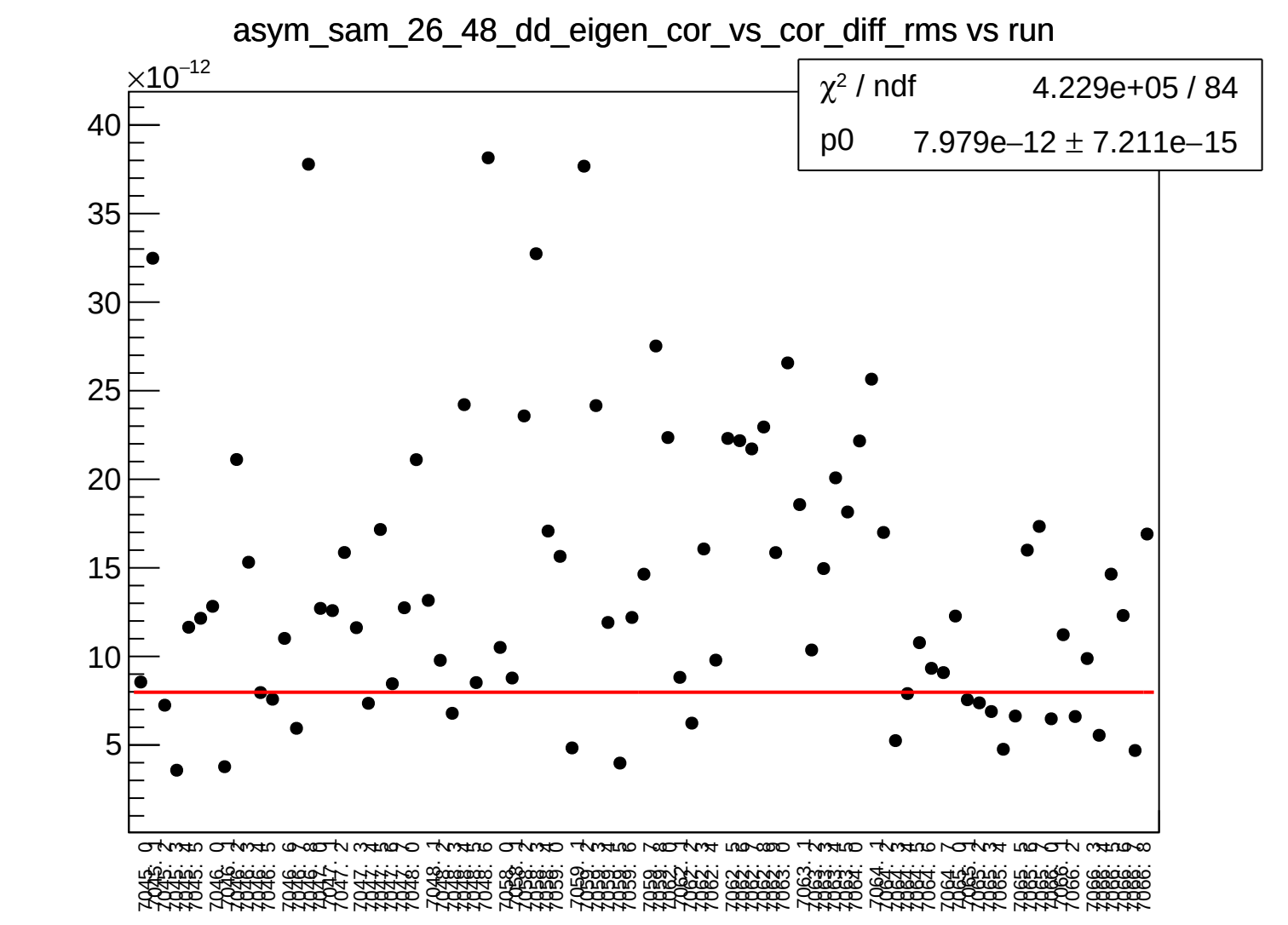

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 84
p0 41.59 ± 0.03293
100
90
80
70
60
50
40
30

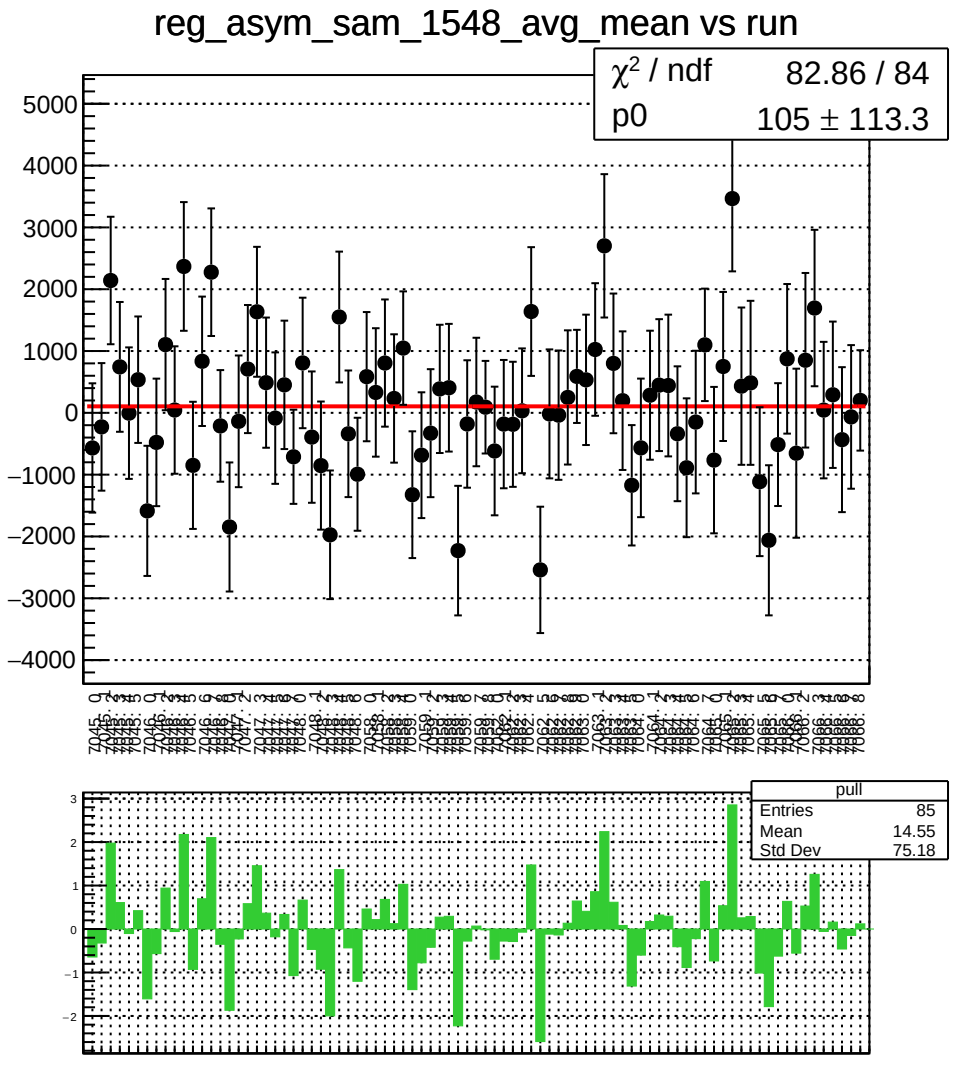

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.47 / 84
p0 0.01552 ± 0.04657
pull
Entries 85
Mean 2.543
Std Dev 0
pull1D
Entries 85
Mean −0.0223
Std Dev 0.9727

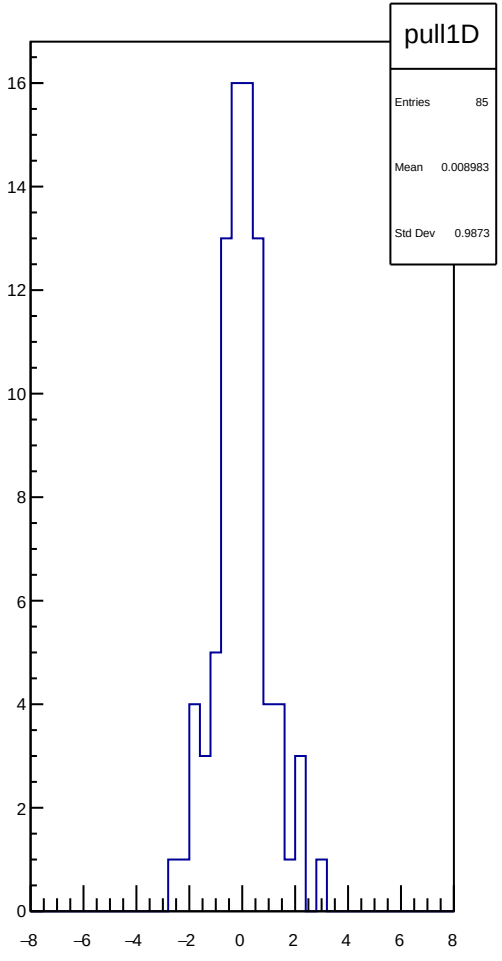

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 84
p0 41.59 ± 0.03293
100
90
80
70
60
50
40
30

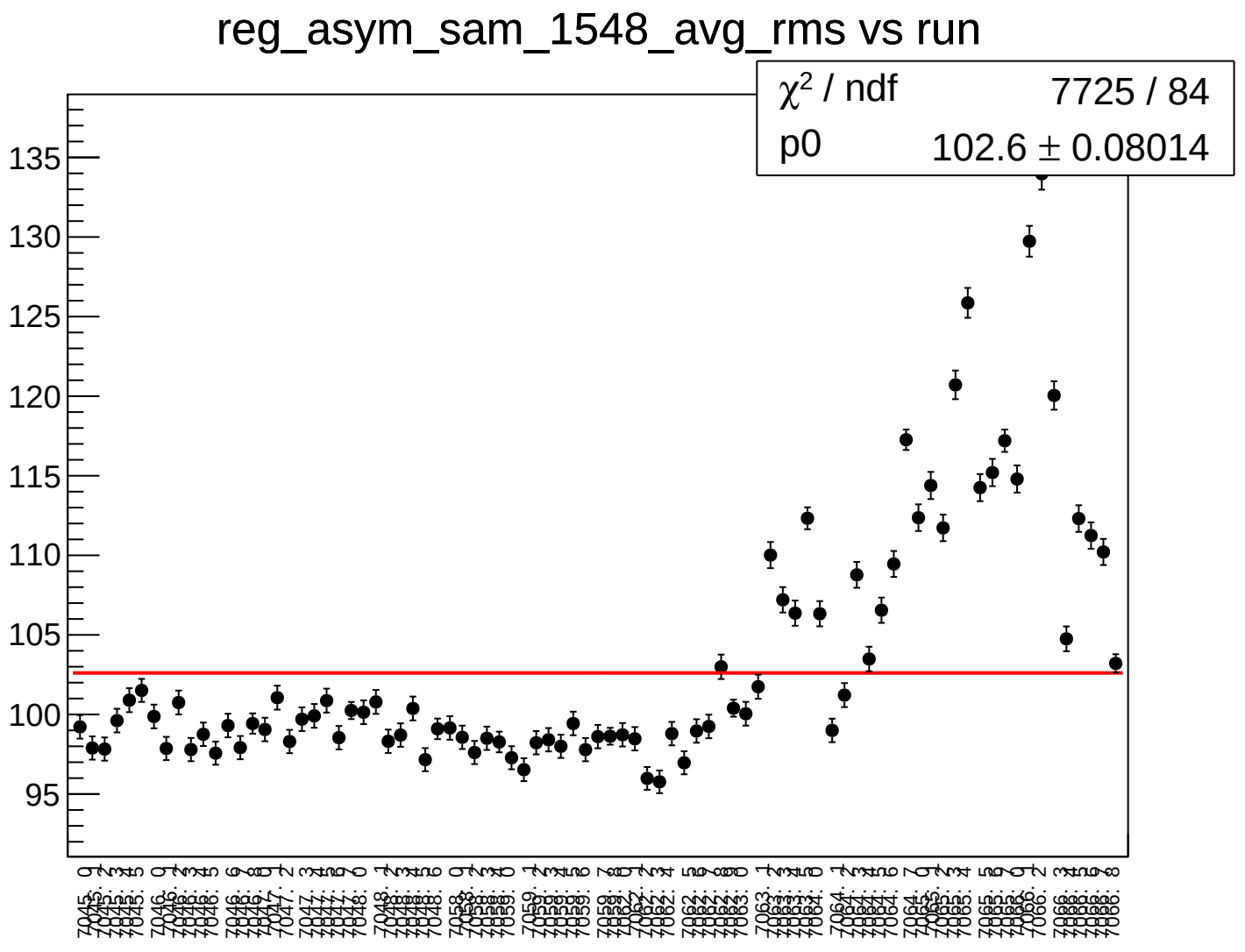

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 84
p0 −7.076e−15 ± 1.02e−14
pull
Entries 85
Mean −49.36
Std Dev 0

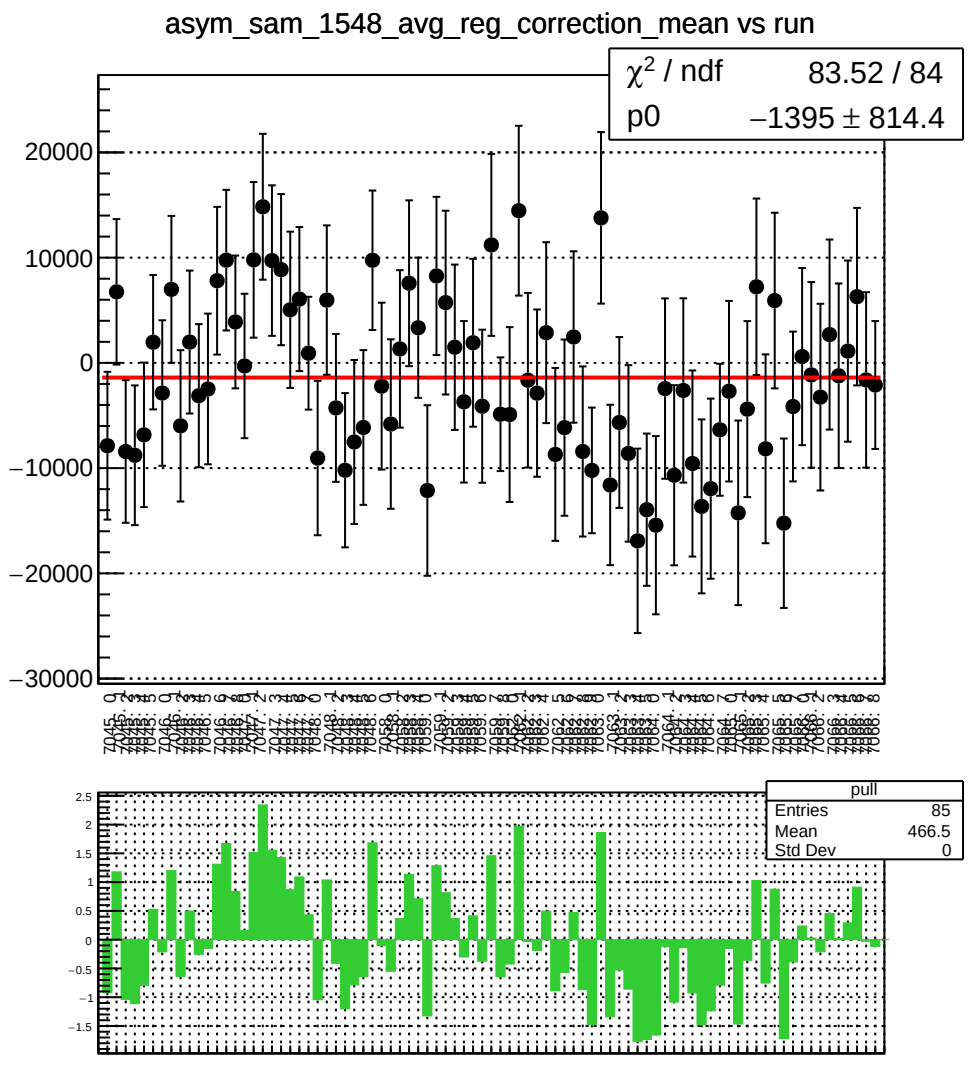

pull1D
Entries 85
Mean 0.05346
Std Dev 1.087

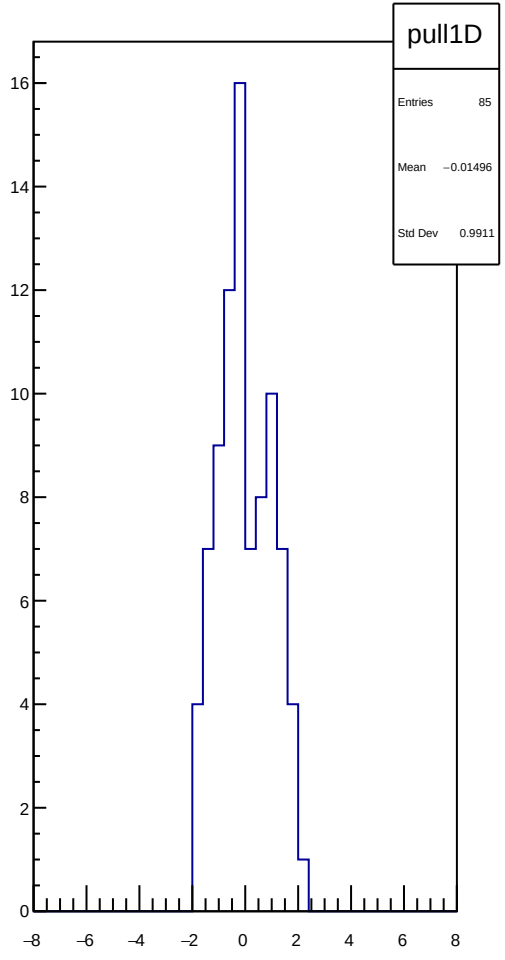

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 4.229e+05 / 84
p0 7.979e−12 ± 7.211e−15

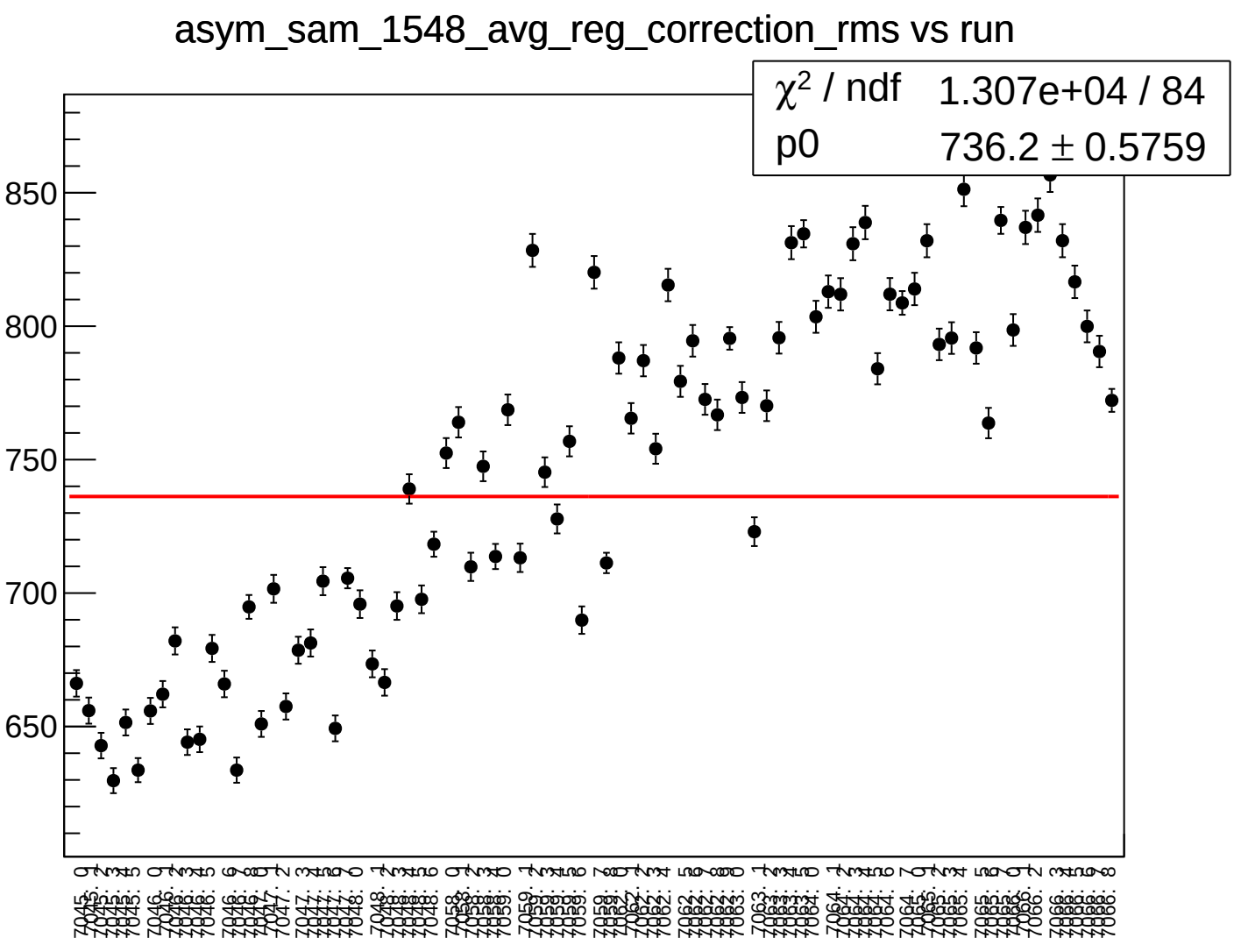

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 82.86 / 84
p0 105 ± 113.3
pull
Entries 85
Mean 14.55
Std Dev 75.18

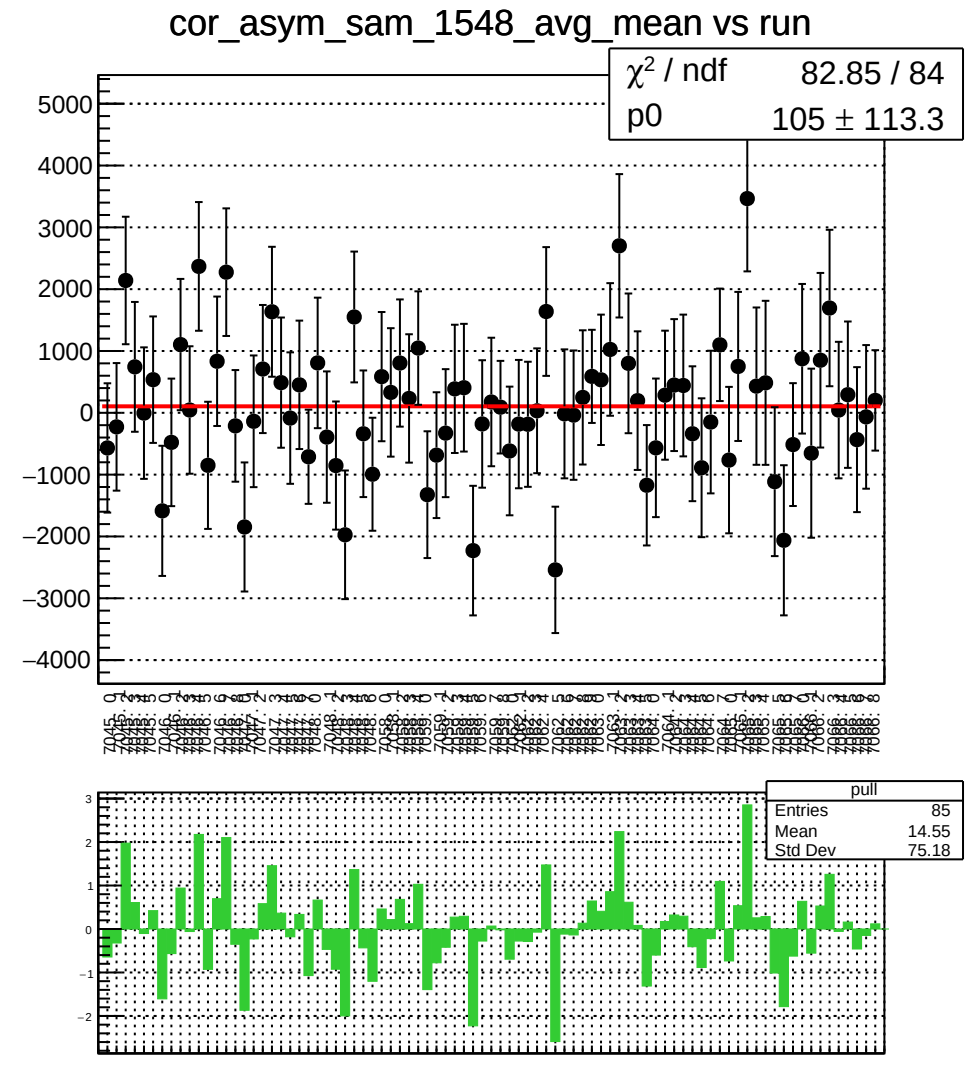

pull1D
Entries 85
Mean 0.008983
Std Dev 0.9873

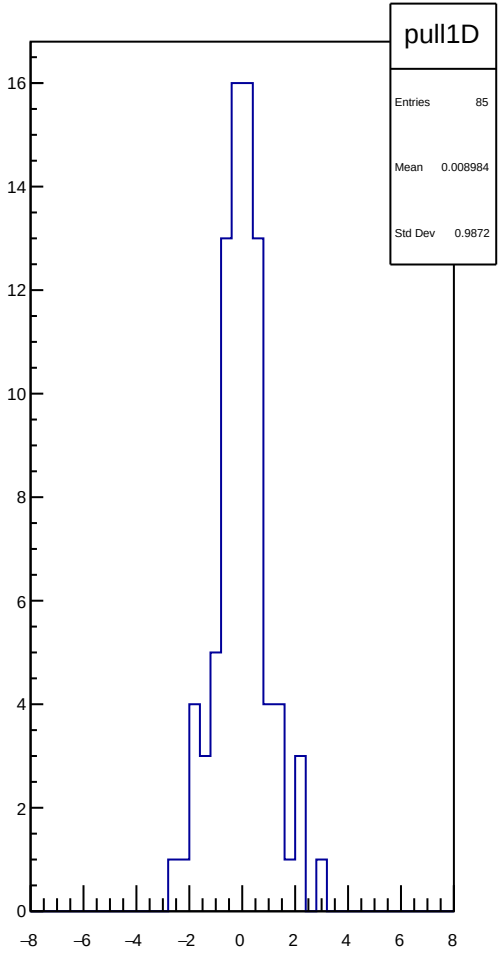

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 7725 / 84
p0 102.6 ± 0.08014
135
130
125
120
115
110
105
100
95

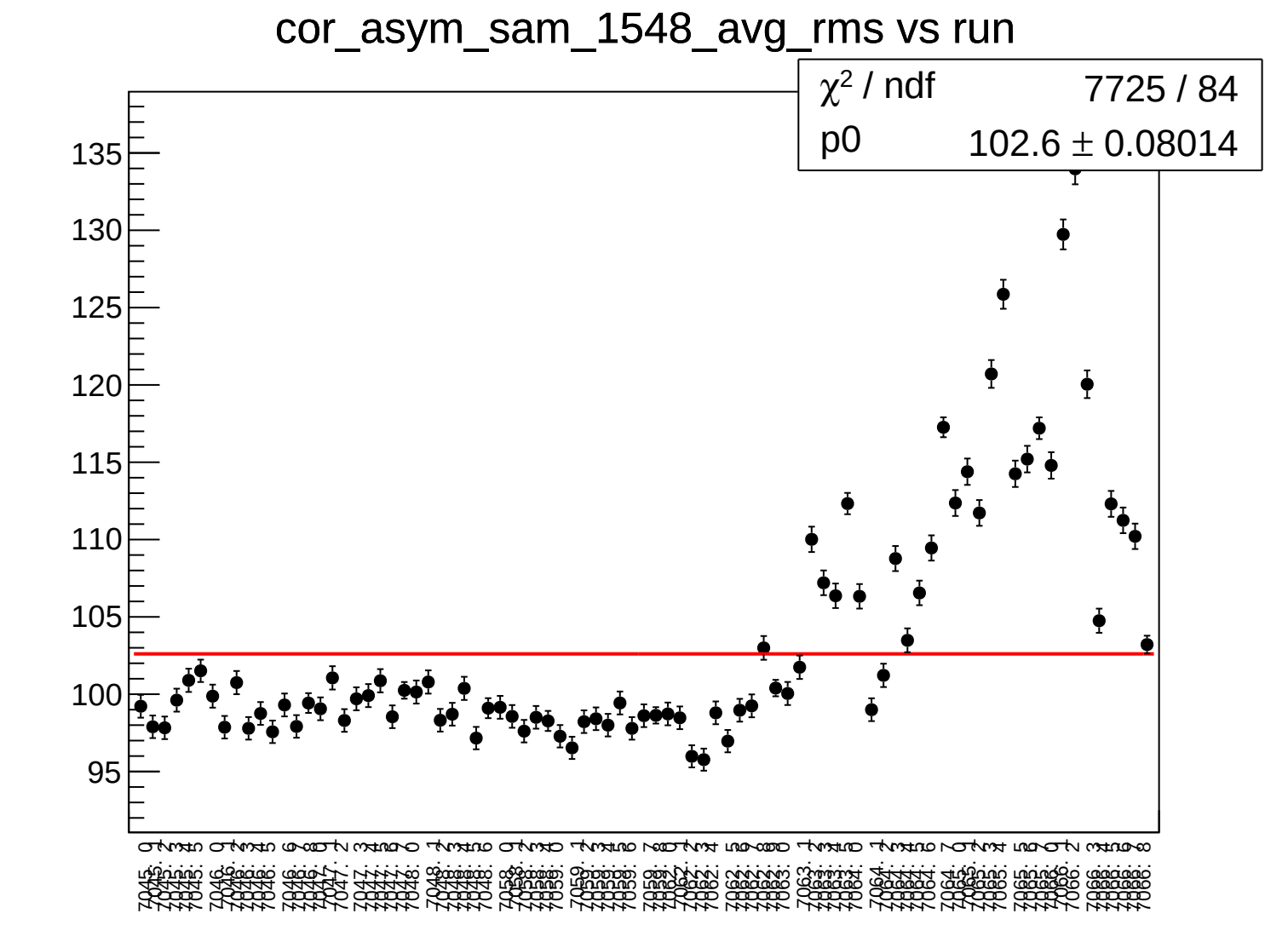

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 83.52 / 84
p0 −1395 ± 814.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 466.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

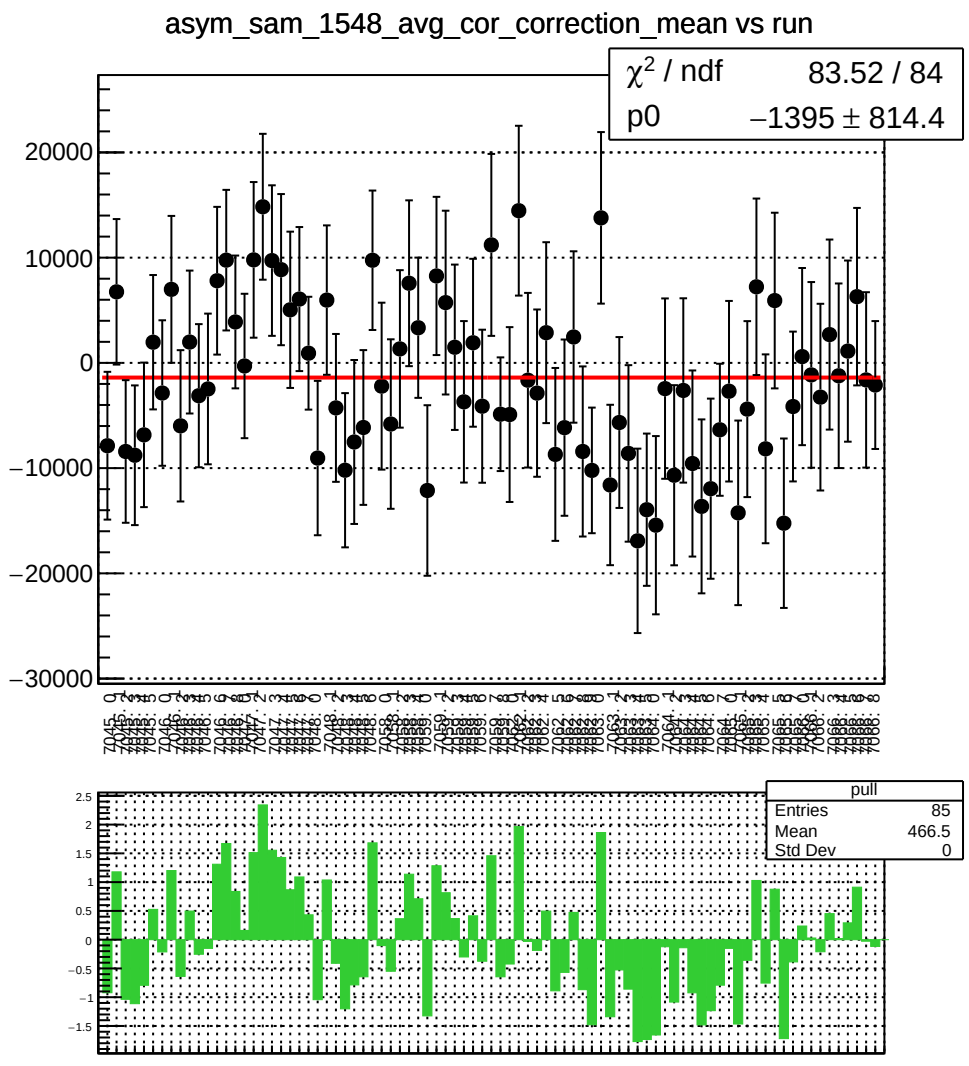

pull1D
Entries 85
Mean −0.01496
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

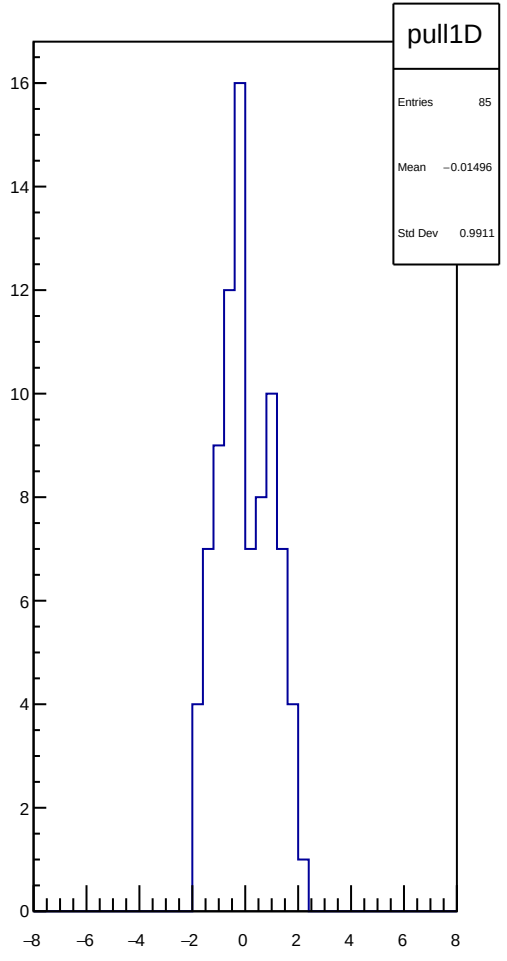

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.307e+04 / 84
p0 736.2 ± 0.5759
850
800
750
700
650

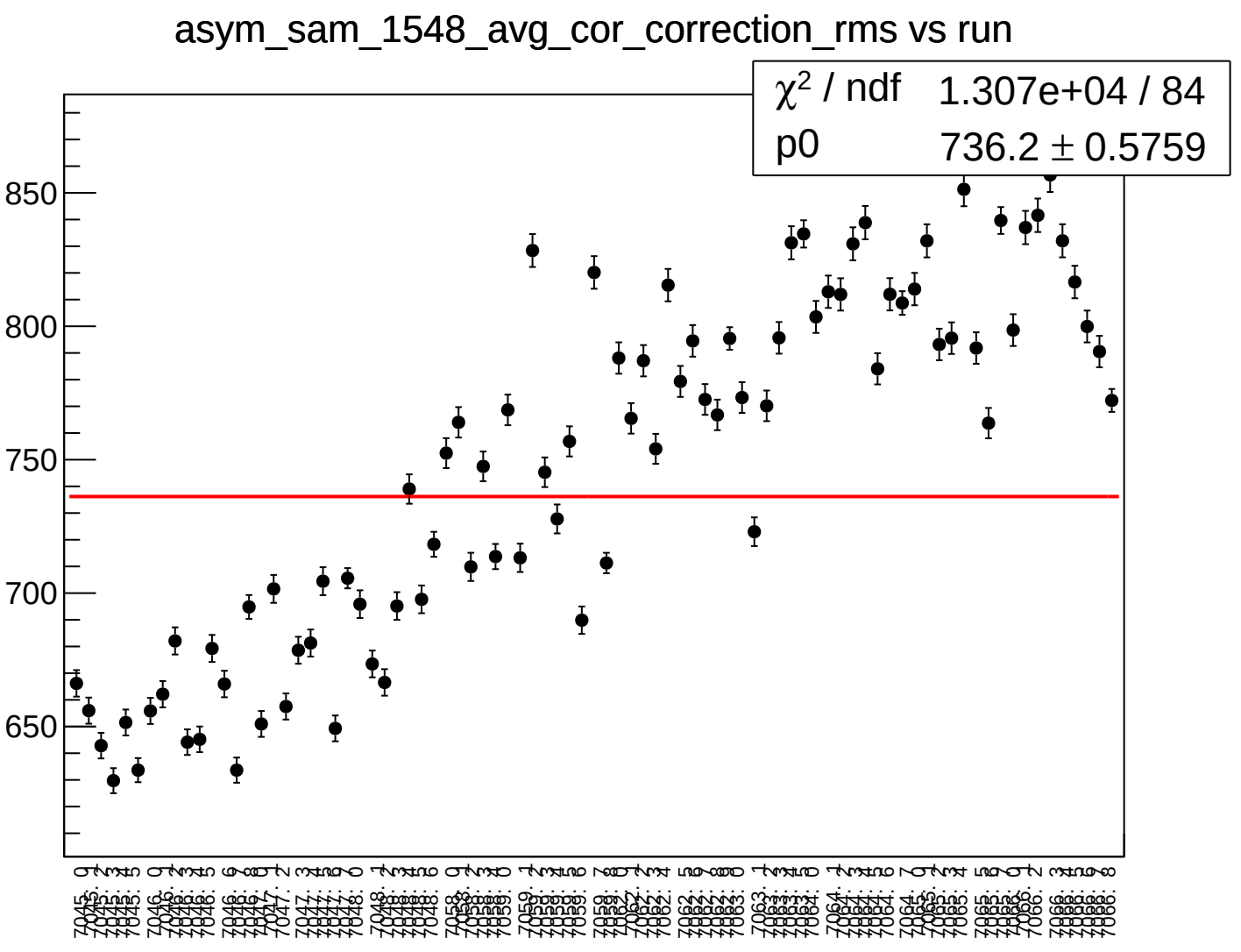

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 82.85 / 84
p0 105 ± 113.3
pull
Entries 85
Mean 14.55
Std Dev 75.18

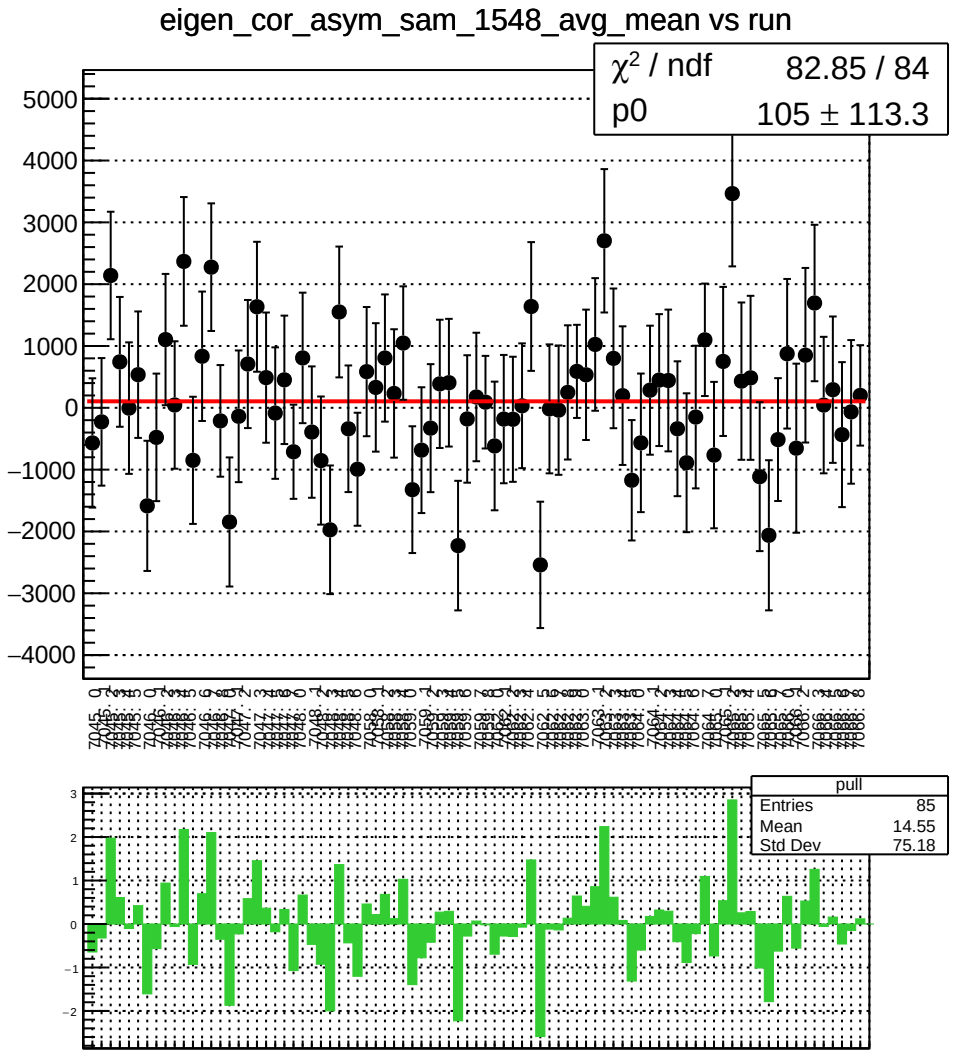

pull1D
Entries 85
Mean 0.008984
Std Dev 0.9872

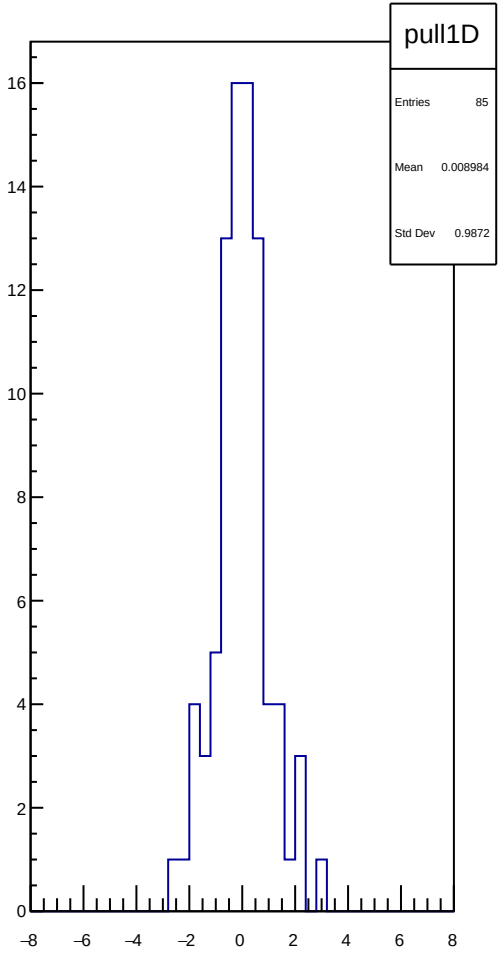

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 7725 / 84
p0 102.6 ± 0.08014
135
130
125
120
115
110
105
100
95

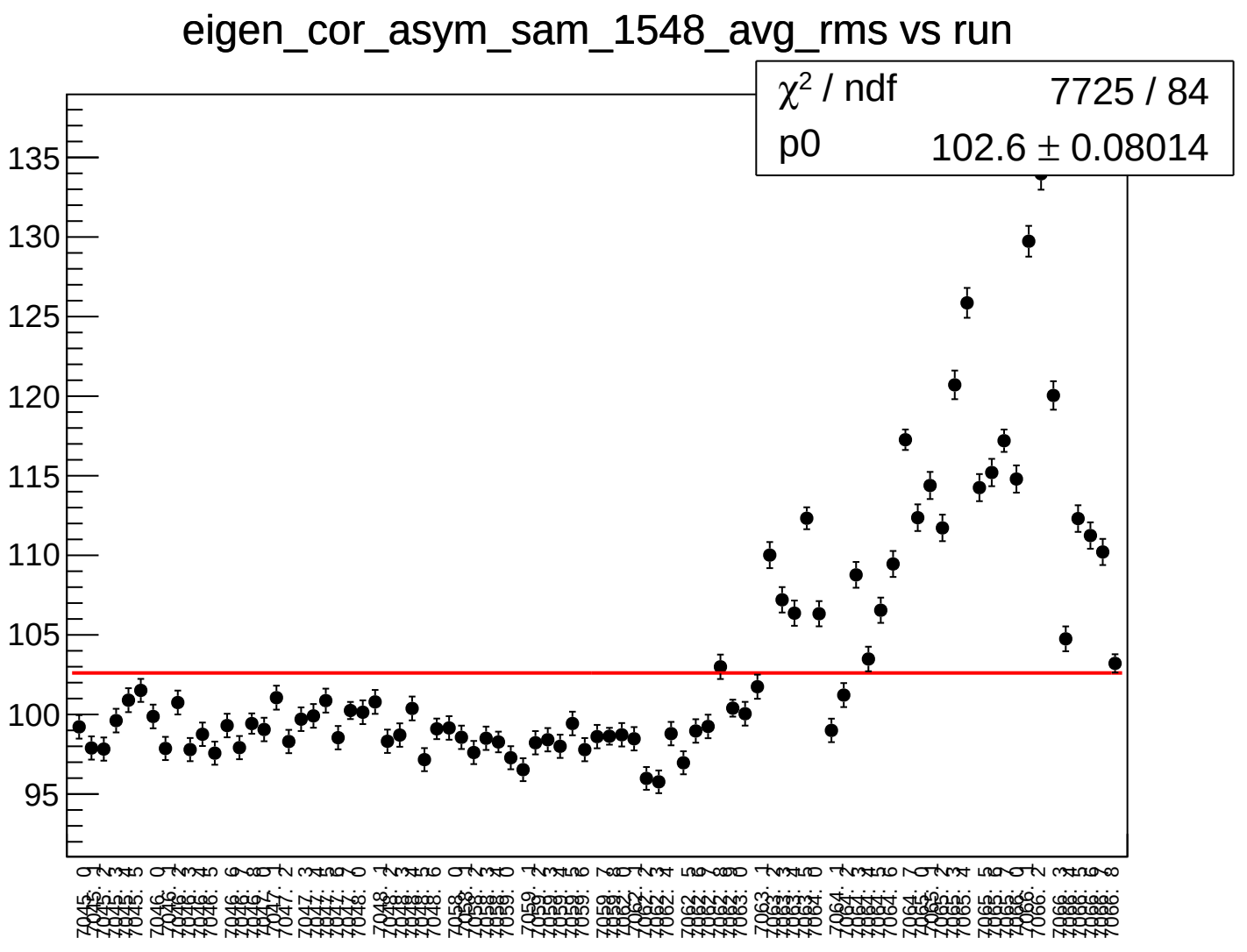

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 83.52 / 84
p0 −1395 ± 814.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 466.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

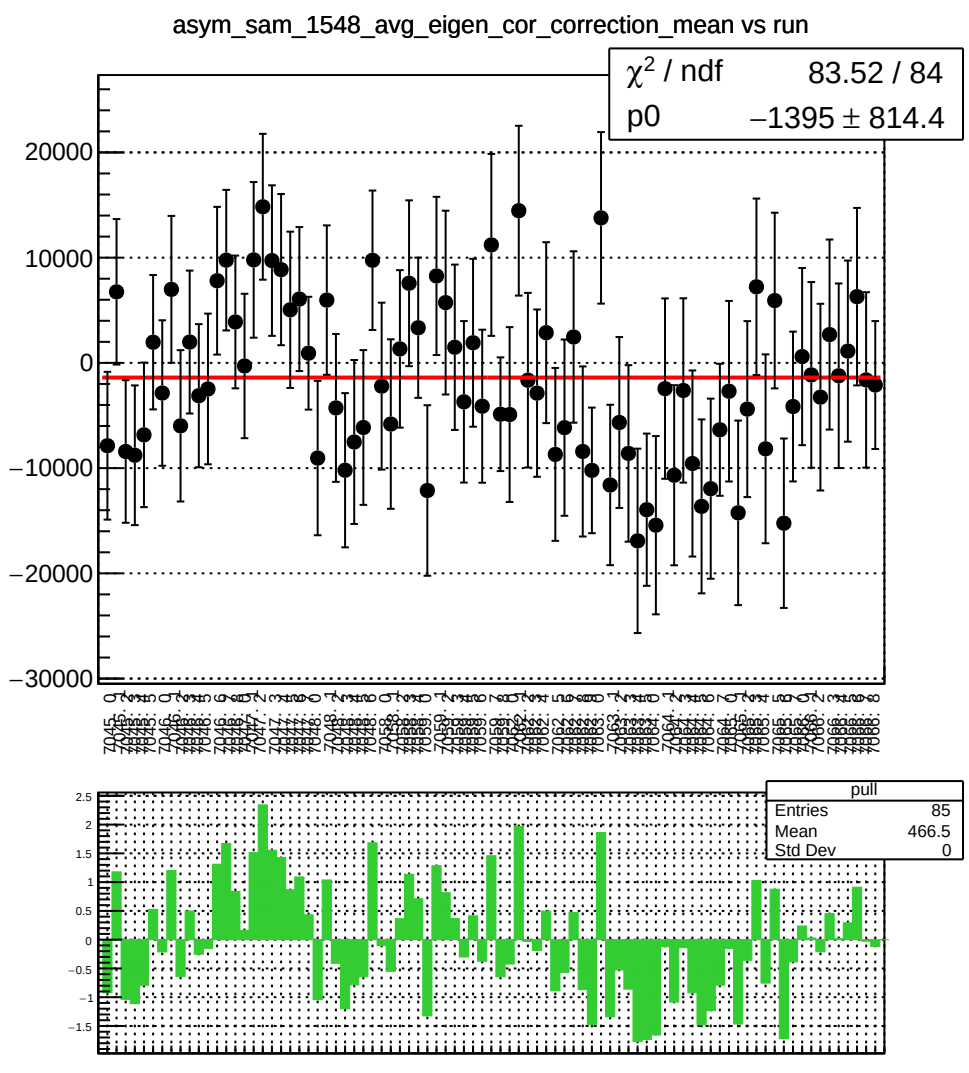

pull1D
Entries 85
Mean −0.01496
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

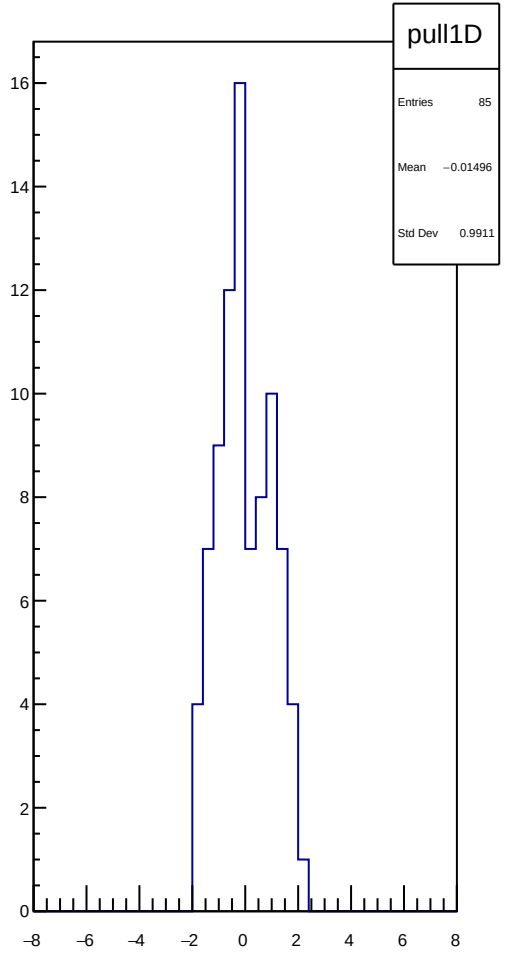

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.307e+04 / 84
p0 736.2 ± 0.5759
850
800
750
700
650

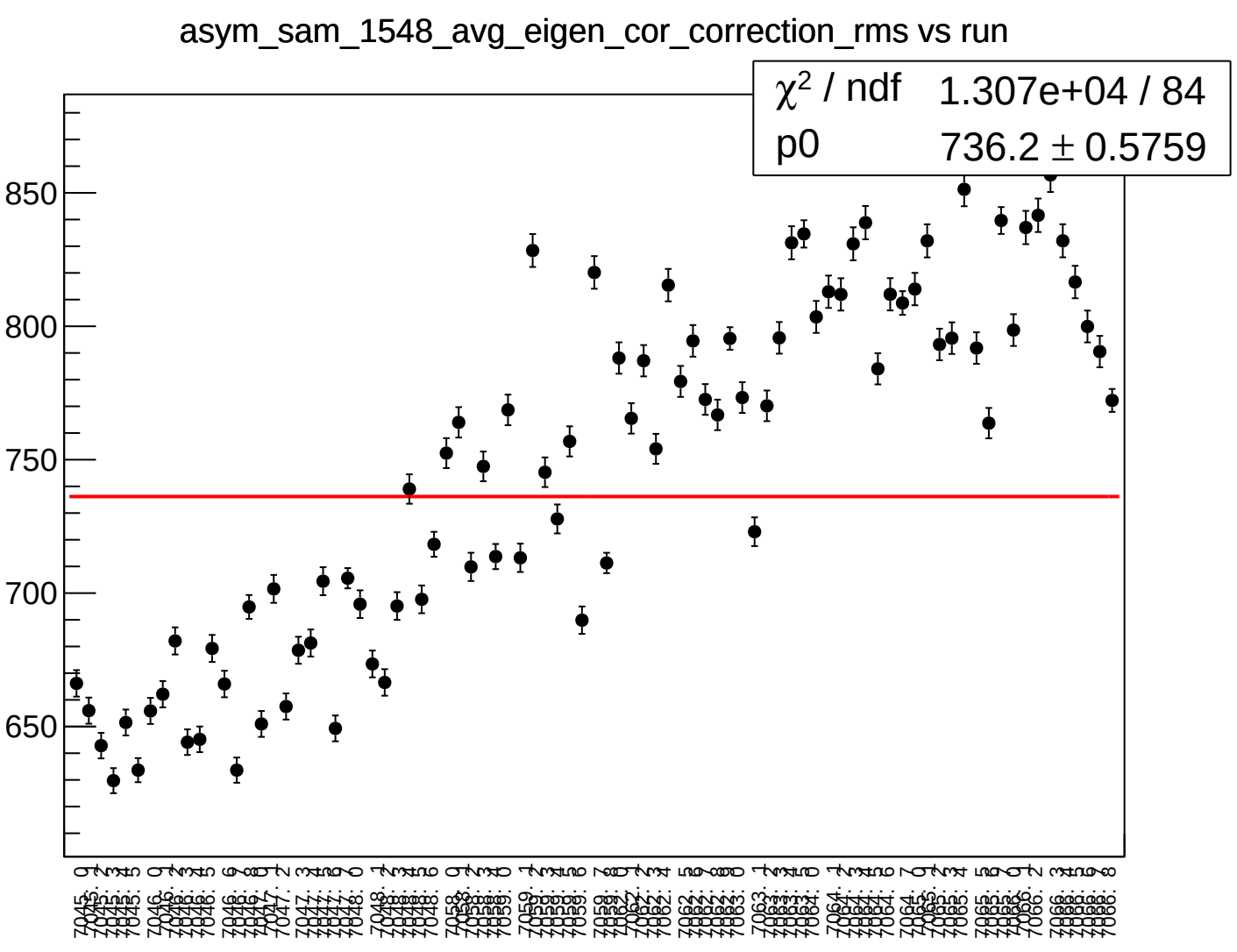

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 82.85 / 84
p0 105 ± 113.3
pull
Entries 85
Mean 14.55
Std Dev 75.18

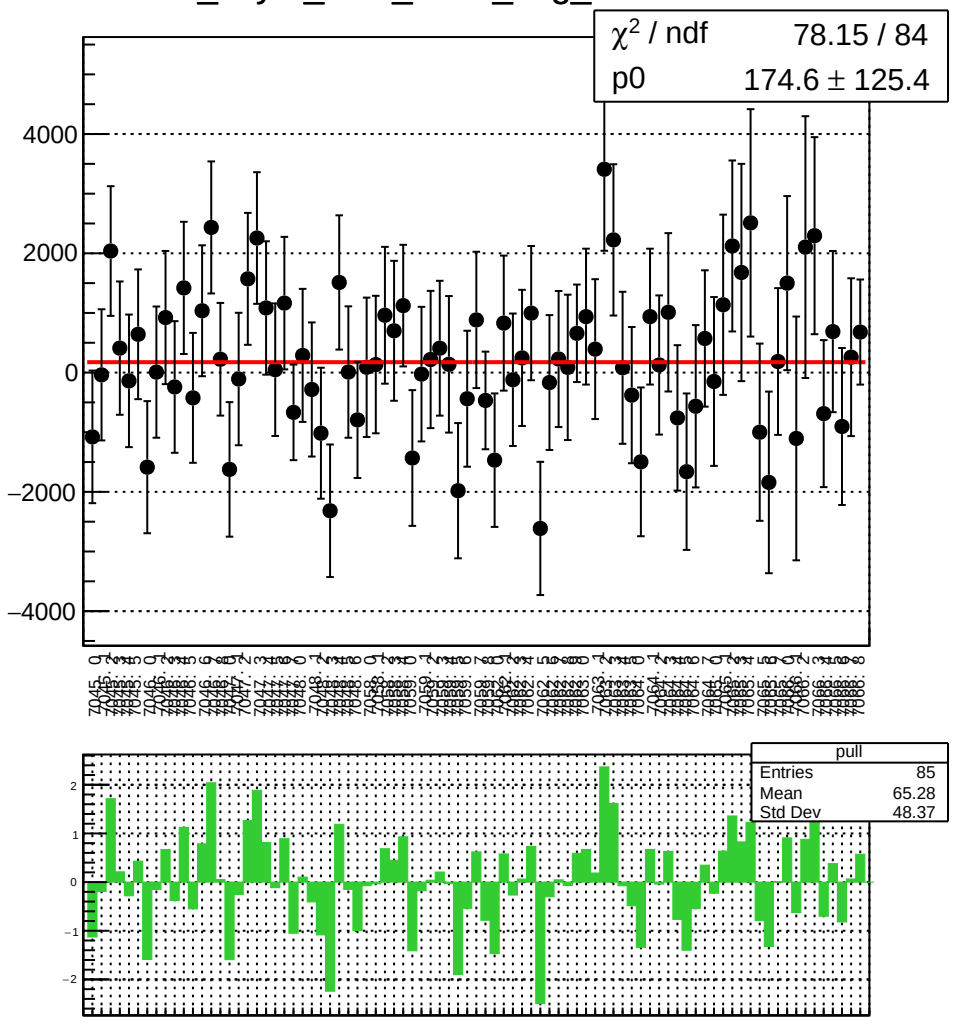

pull1D
Entries 85
Mean 0.008984
Std Dev 0.9872

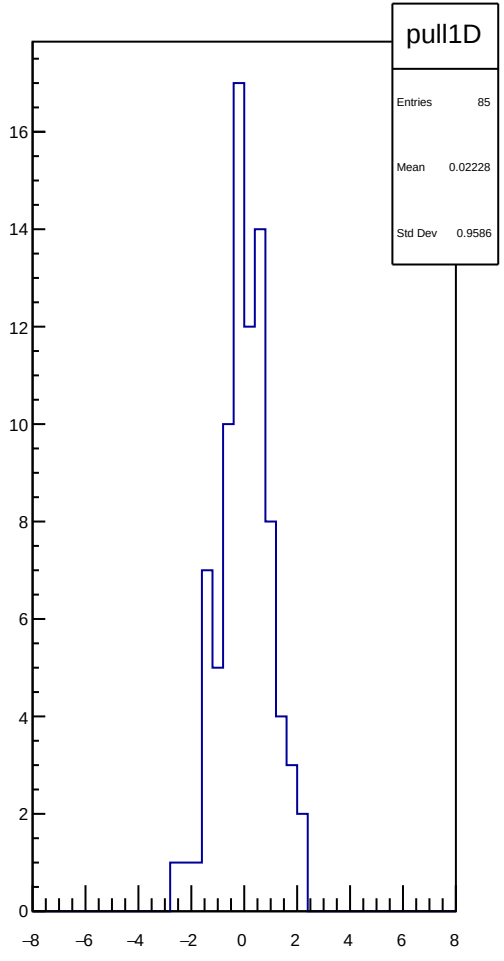

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 7725 / 84
p0 102.6 ± 0.08014
135
130
125
120
115
110
105
100
95

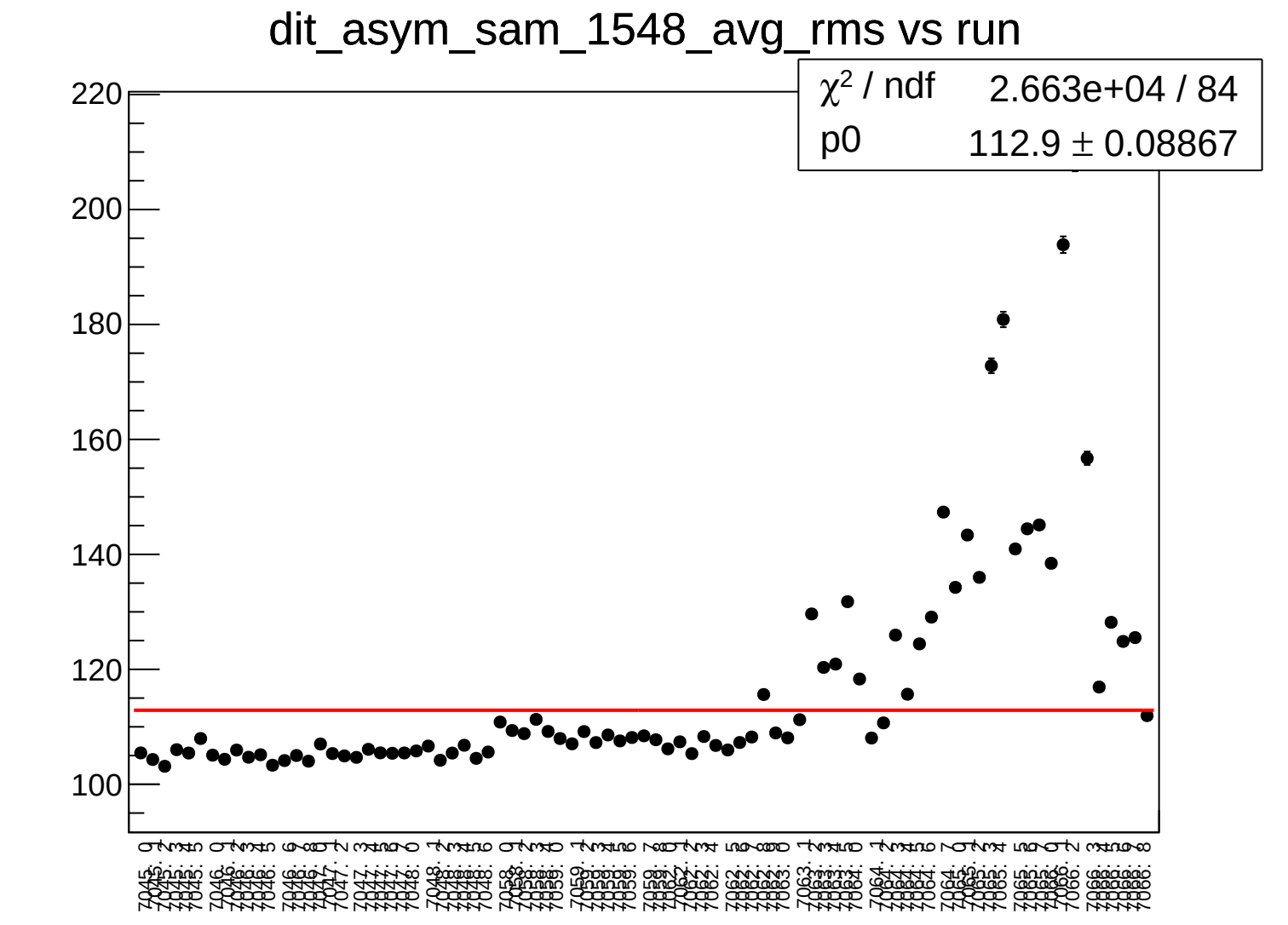

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.52 / 84
p0 −1395 ± 814.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 466.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

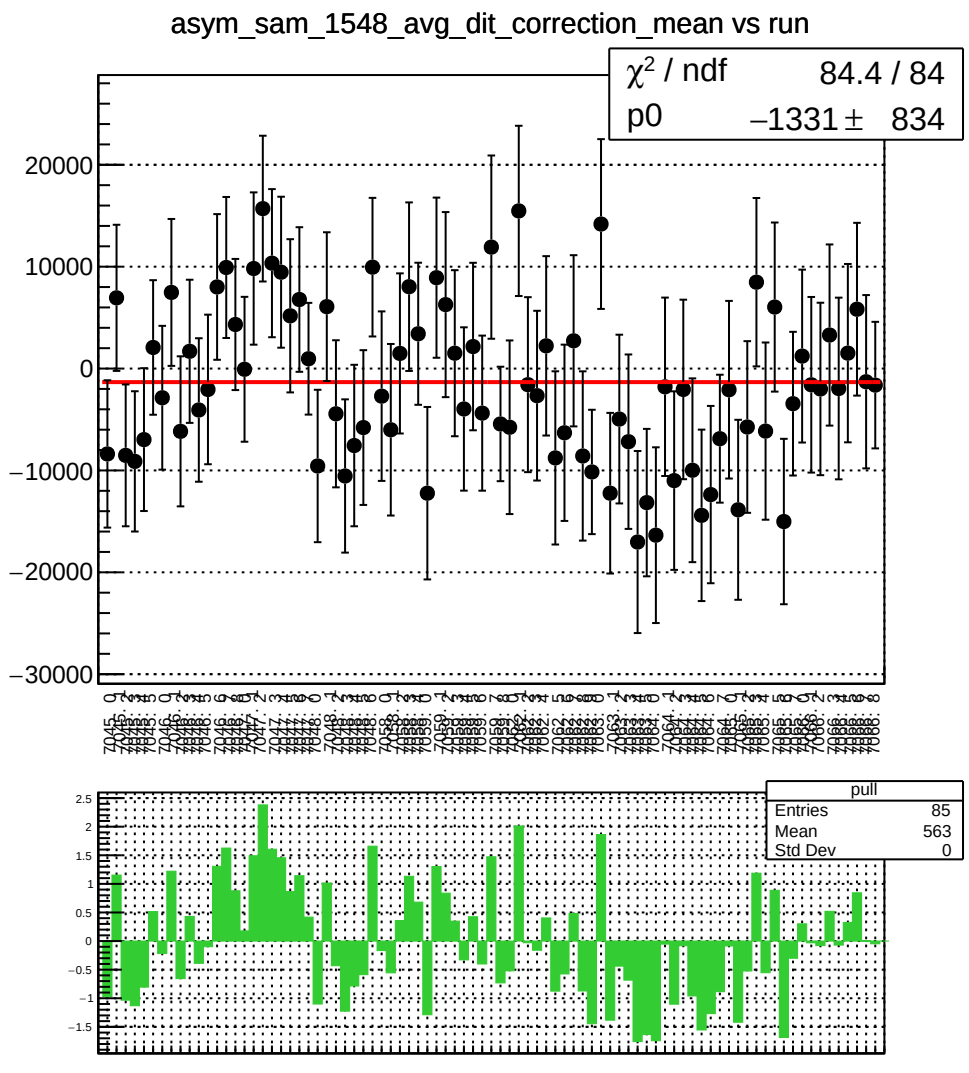

pull1D
Entries 85
Mean −0.01496
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

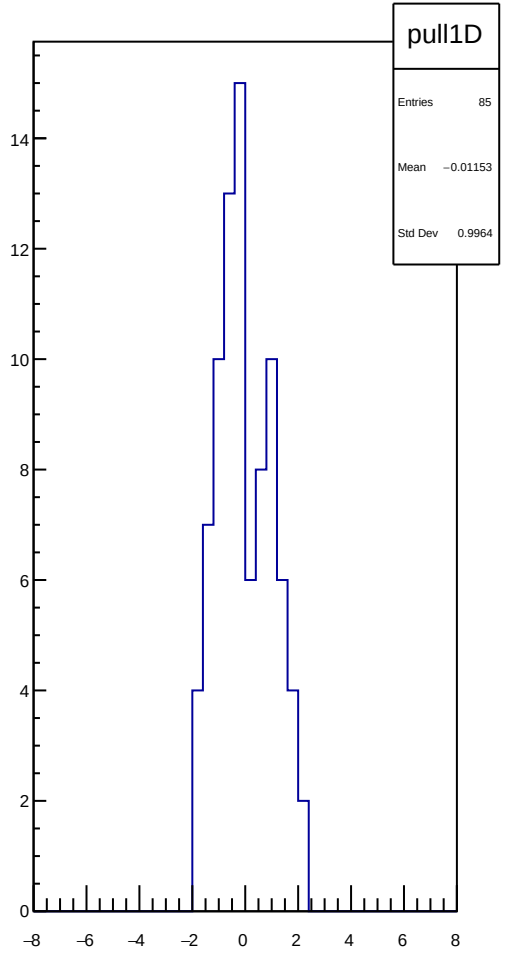

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.307e+04 / 84
p0 736.2 ± 0.5759
850
800
750
700
650

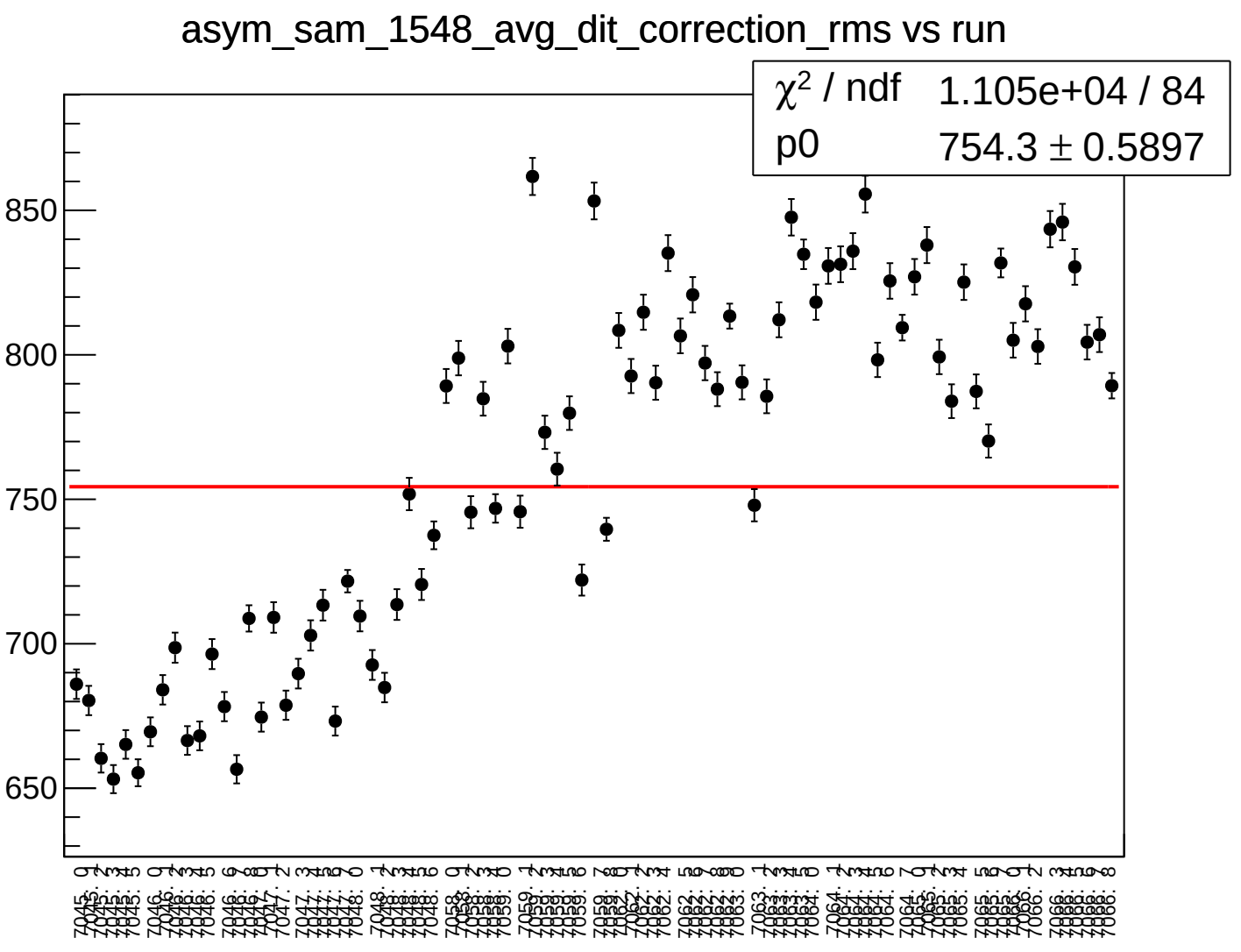

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 78.15 / 84
p0 174.6 ± 125.4
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 65.28
Std Dev 48.37
2
1
0
−1
−2

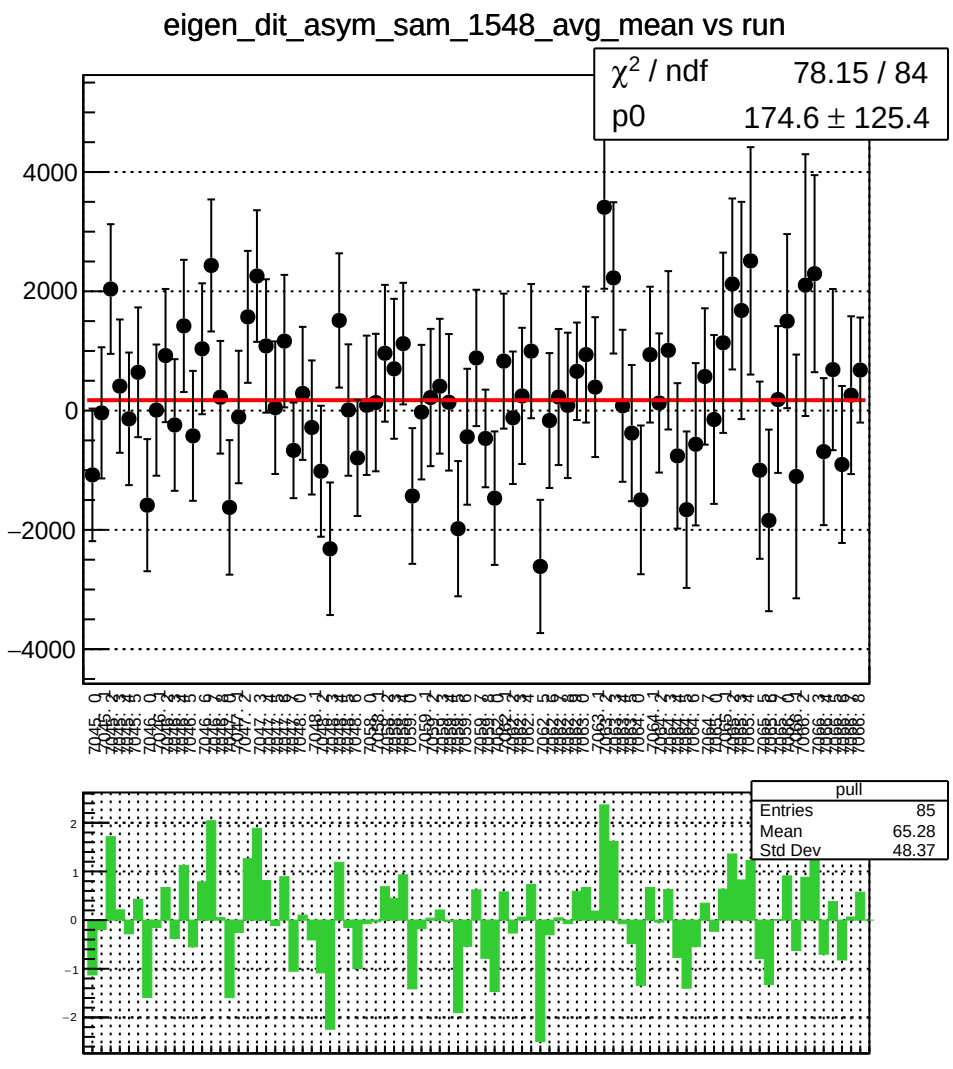

pull1D
Entries 85
Mean 0.02228
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

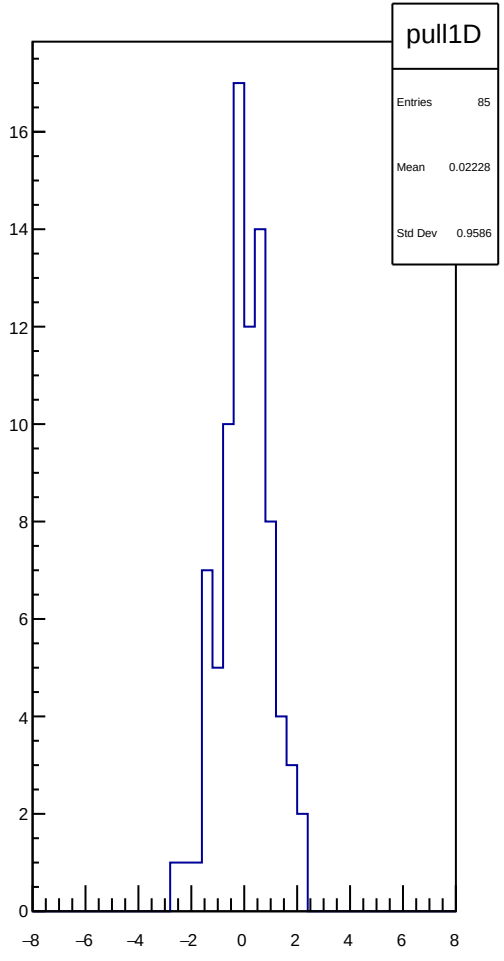

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.663e+04 / 84
p0 112.9 ± 0.08867
220
200
180
160
140
120
100

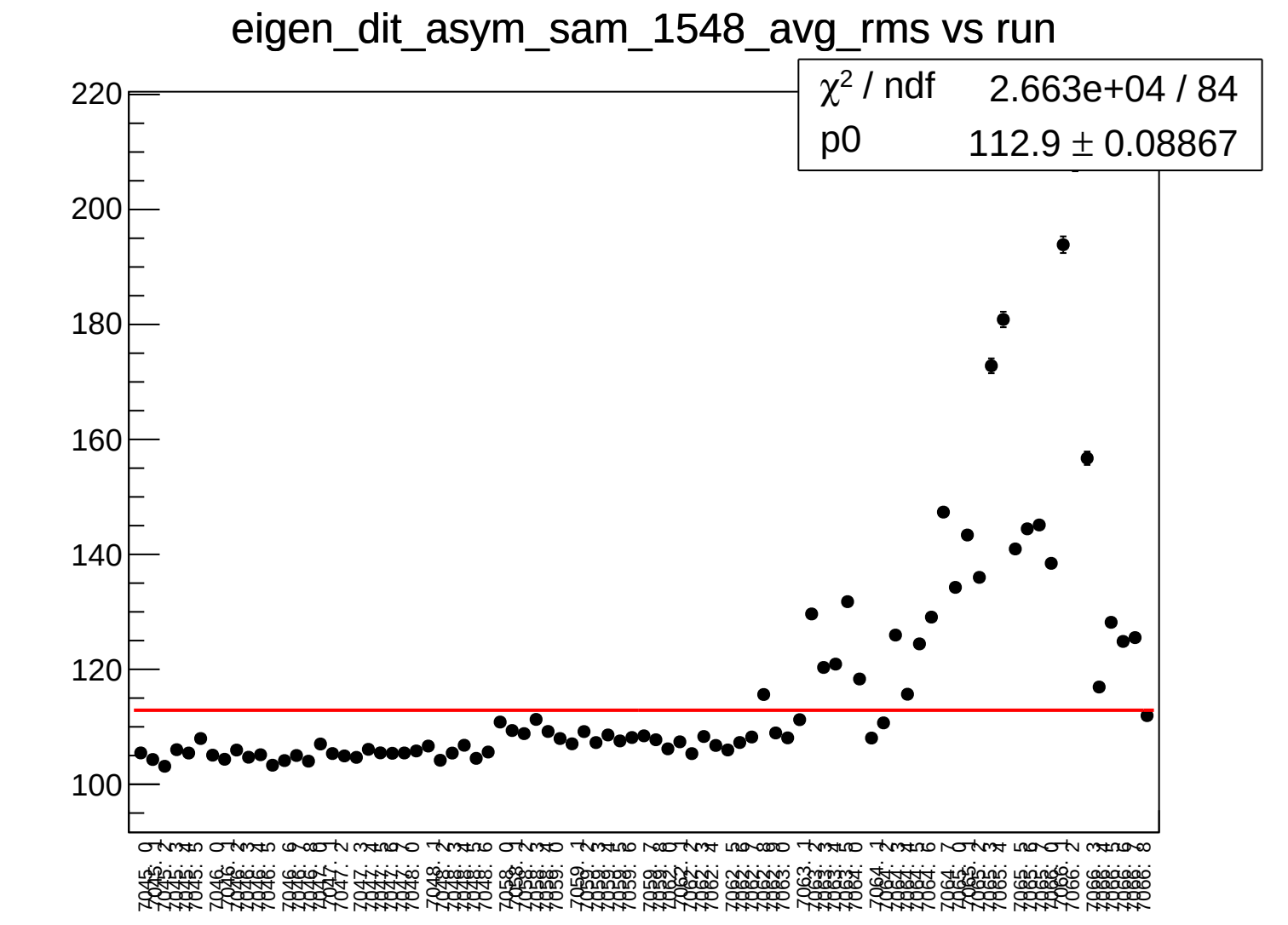

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 84.4 / 84
p0 −1331 ± 834
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 563
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

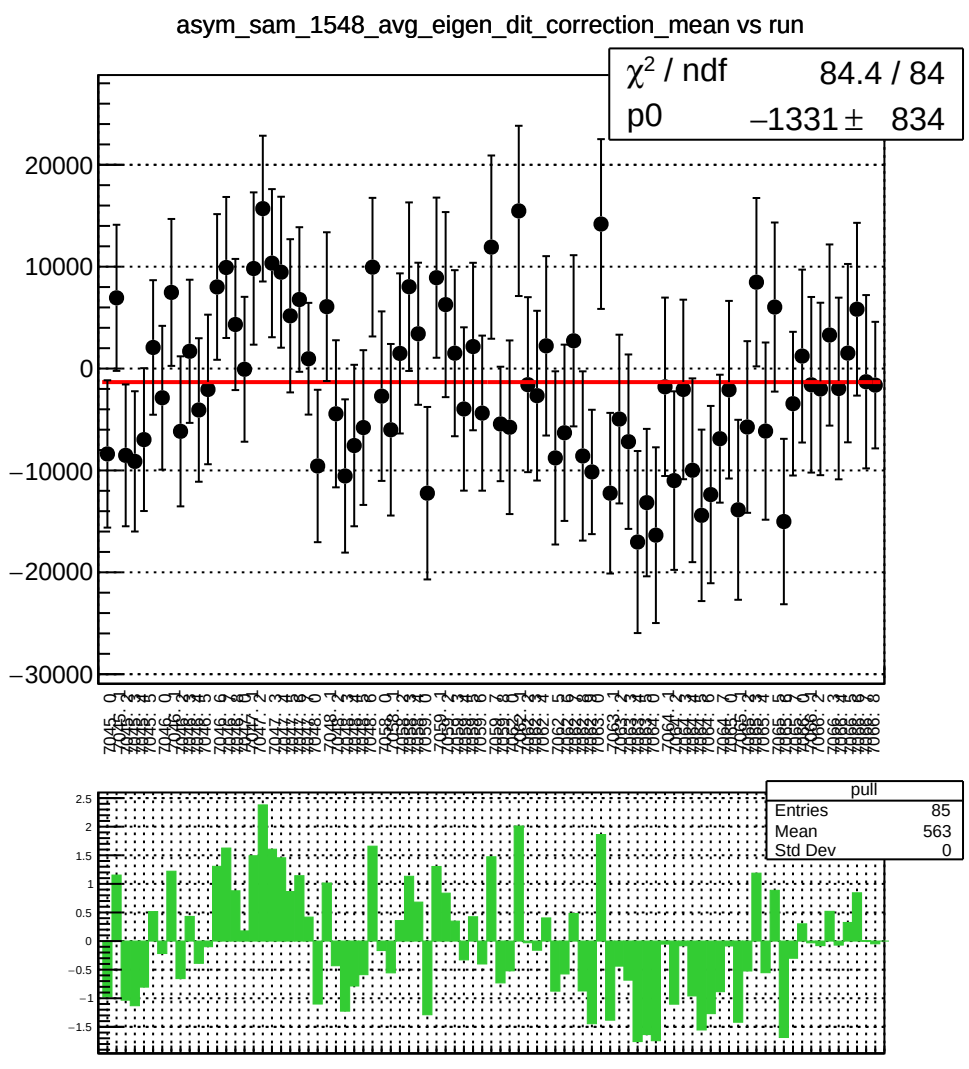

pull1D
Entries 85
Mean −0.01153
Std Dev 0.9964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

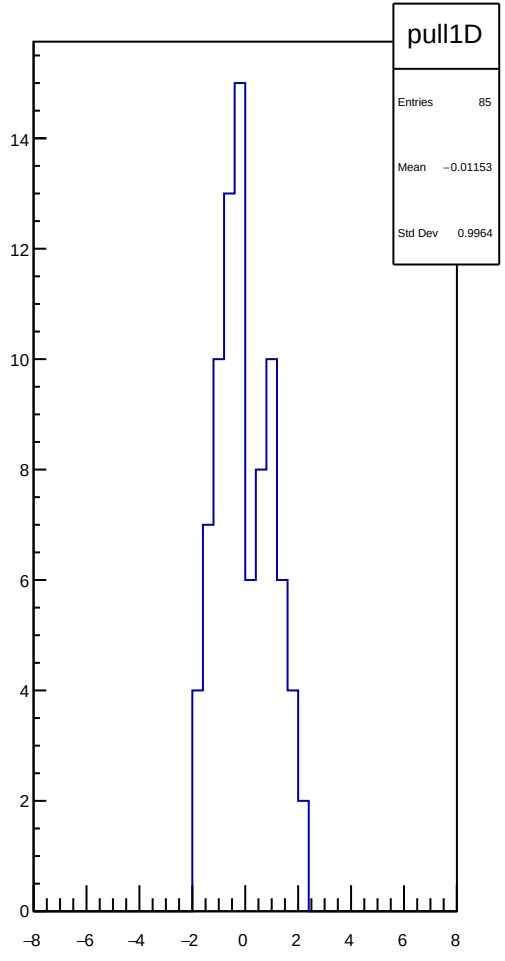

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.105e+04 / 84
p0 754.3 ± 0.5897
850
800
750
700
650

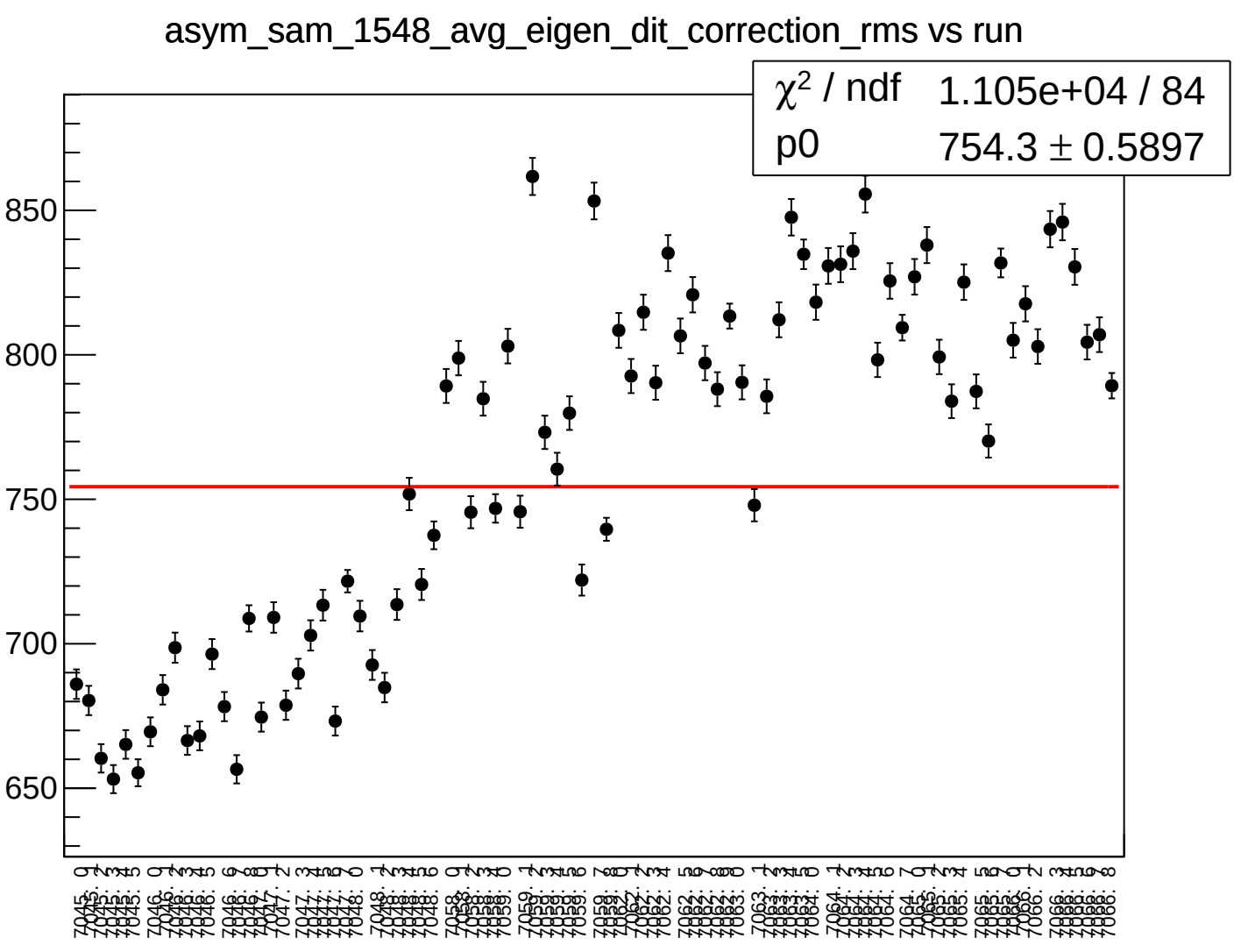

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 78.15 / 84
p0 174.6 ± 125.4
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 65.28
Std Dev 48.37
2
1
0
−1
−2

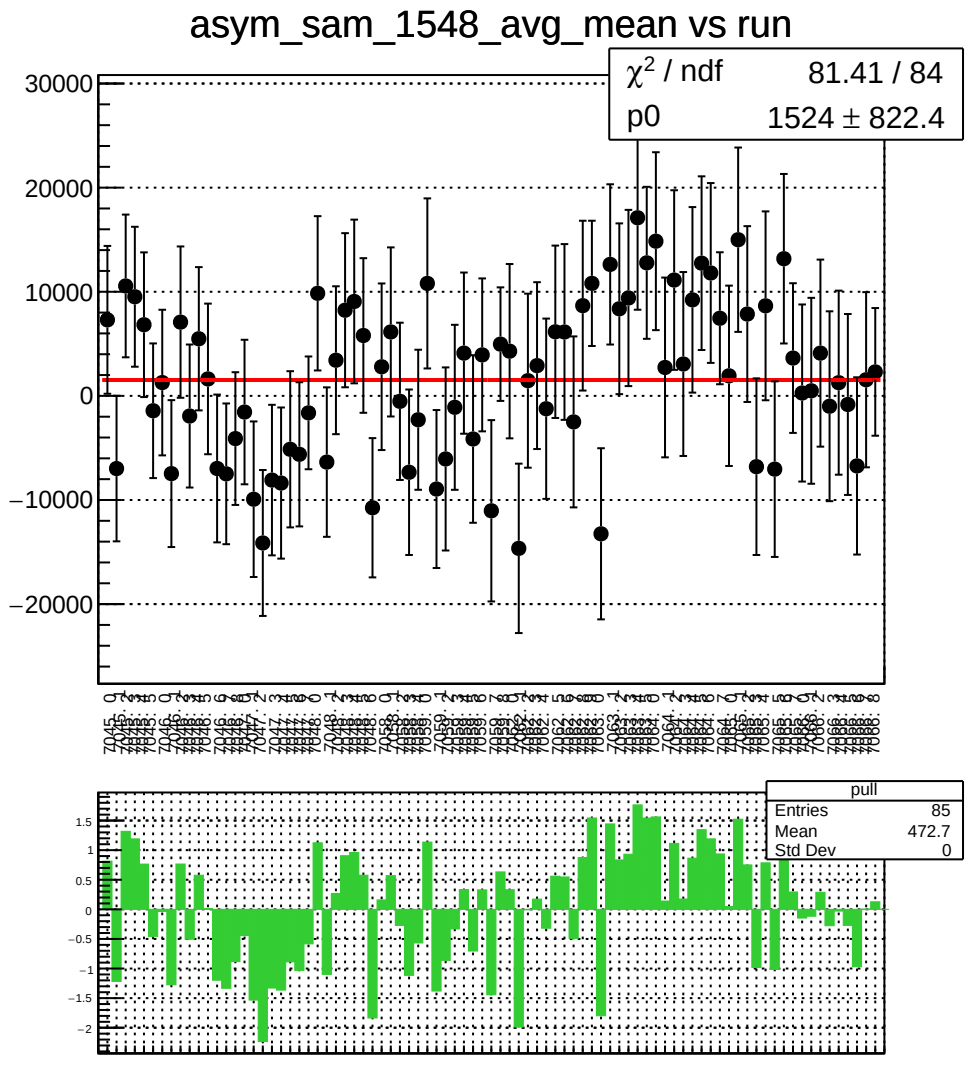

pull1D
Entries 85
Mean 0.02228
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

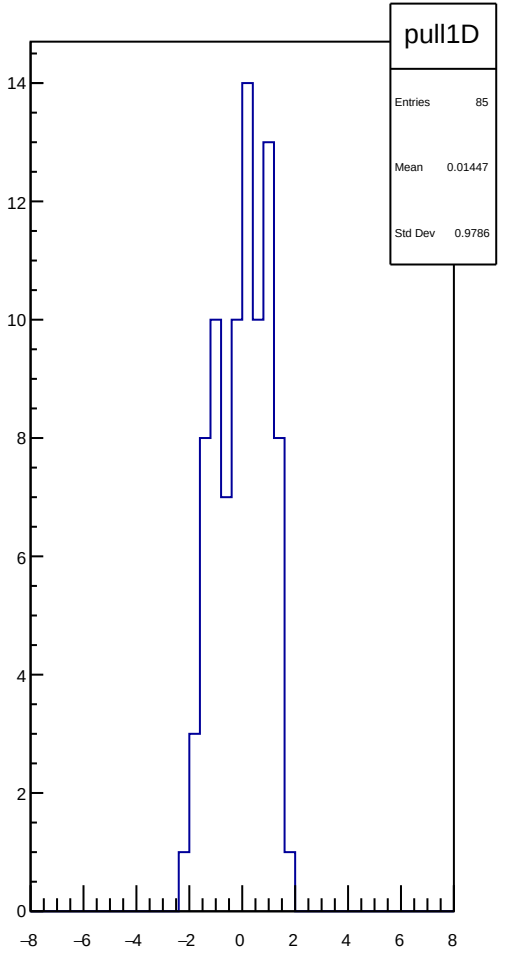

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.663e+04 / 84
p0 112.9 ± 0.08867
220
200
180
160
140
120
100

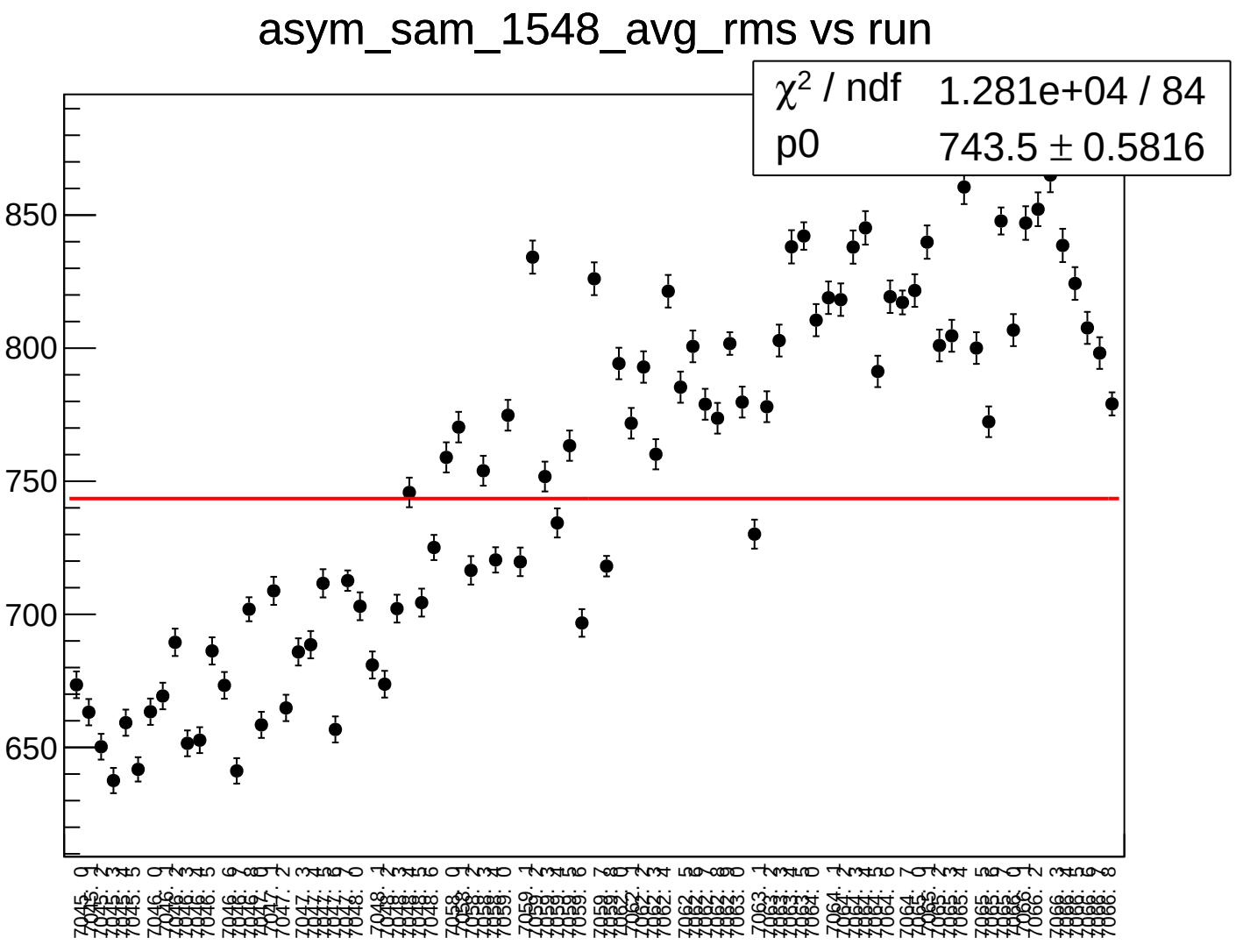

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.4 / 84
p0 −1331 ± 834
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 563
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

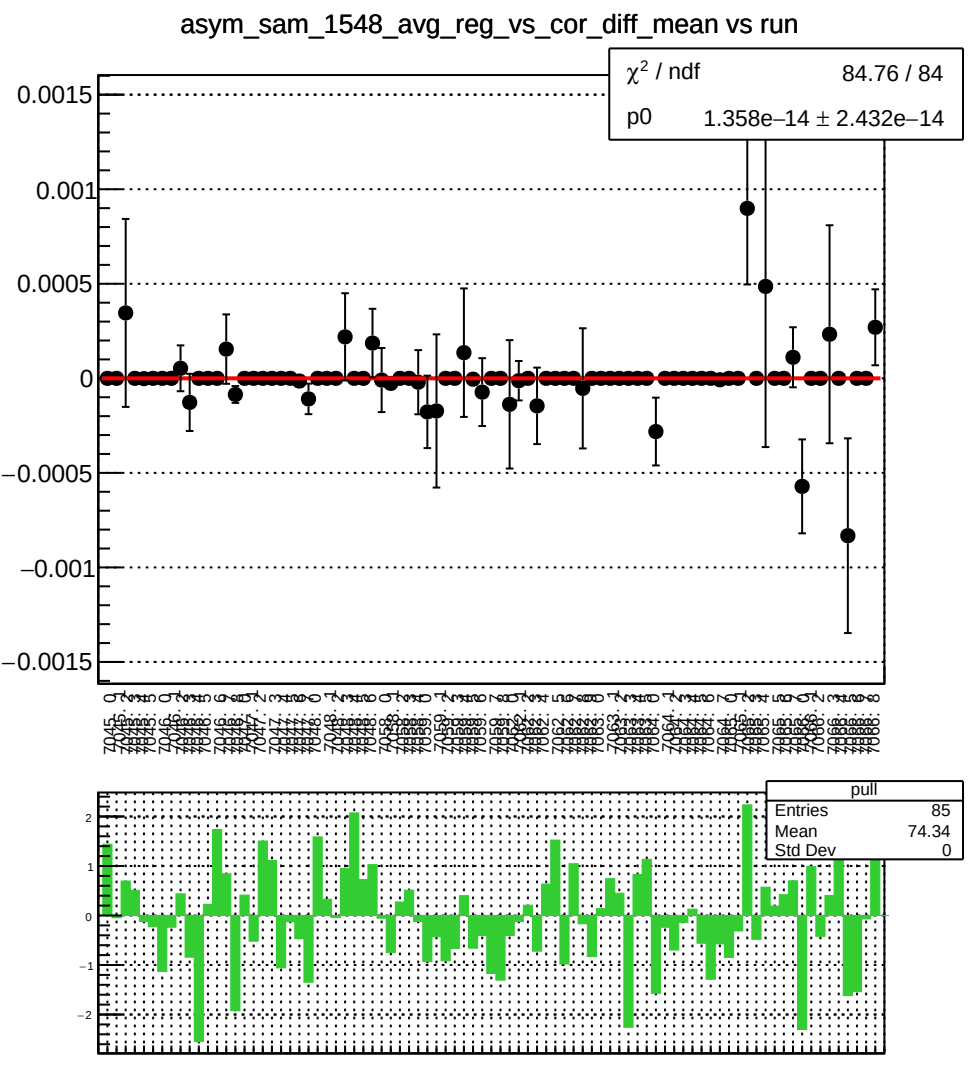

pull1D
Entries 85
Mean −0.01153
Std Dev 0.9964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

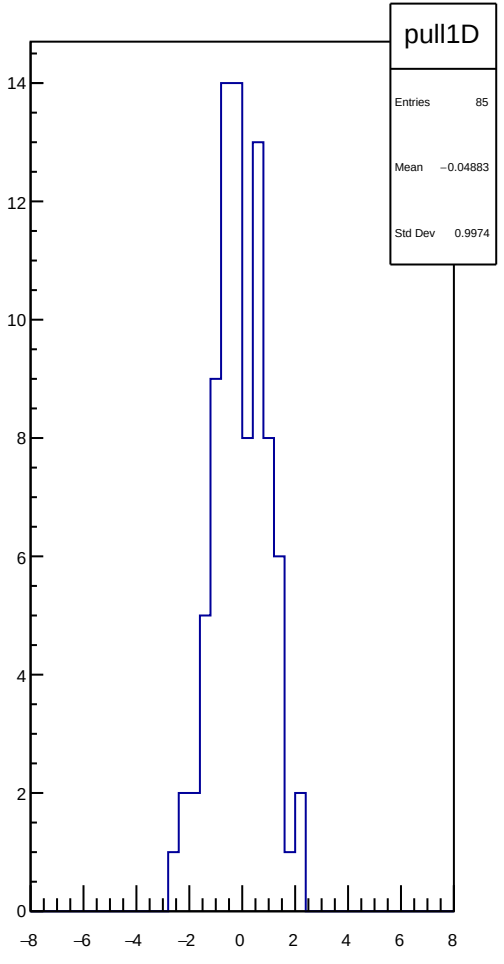

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.105e+04 / 84
p0 754.3 ± 0.5897
850
800
750
700
650

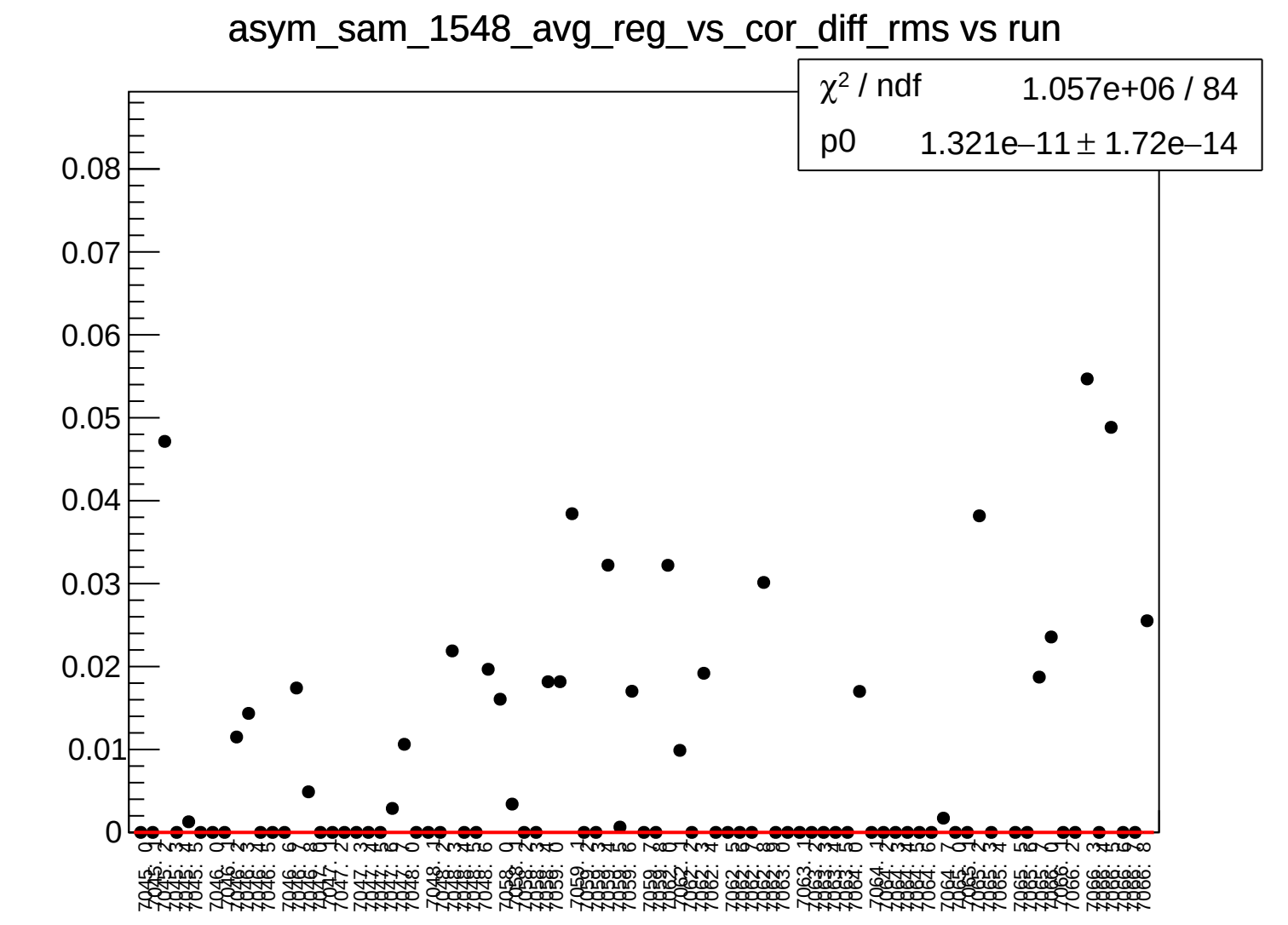

asym_sam_1548_avg_mean vs run
χ² / ndf 81.41 / 84
p0 1524 ± 822.4
pull
Entries 85
Mean 472.7
Std Dev 0

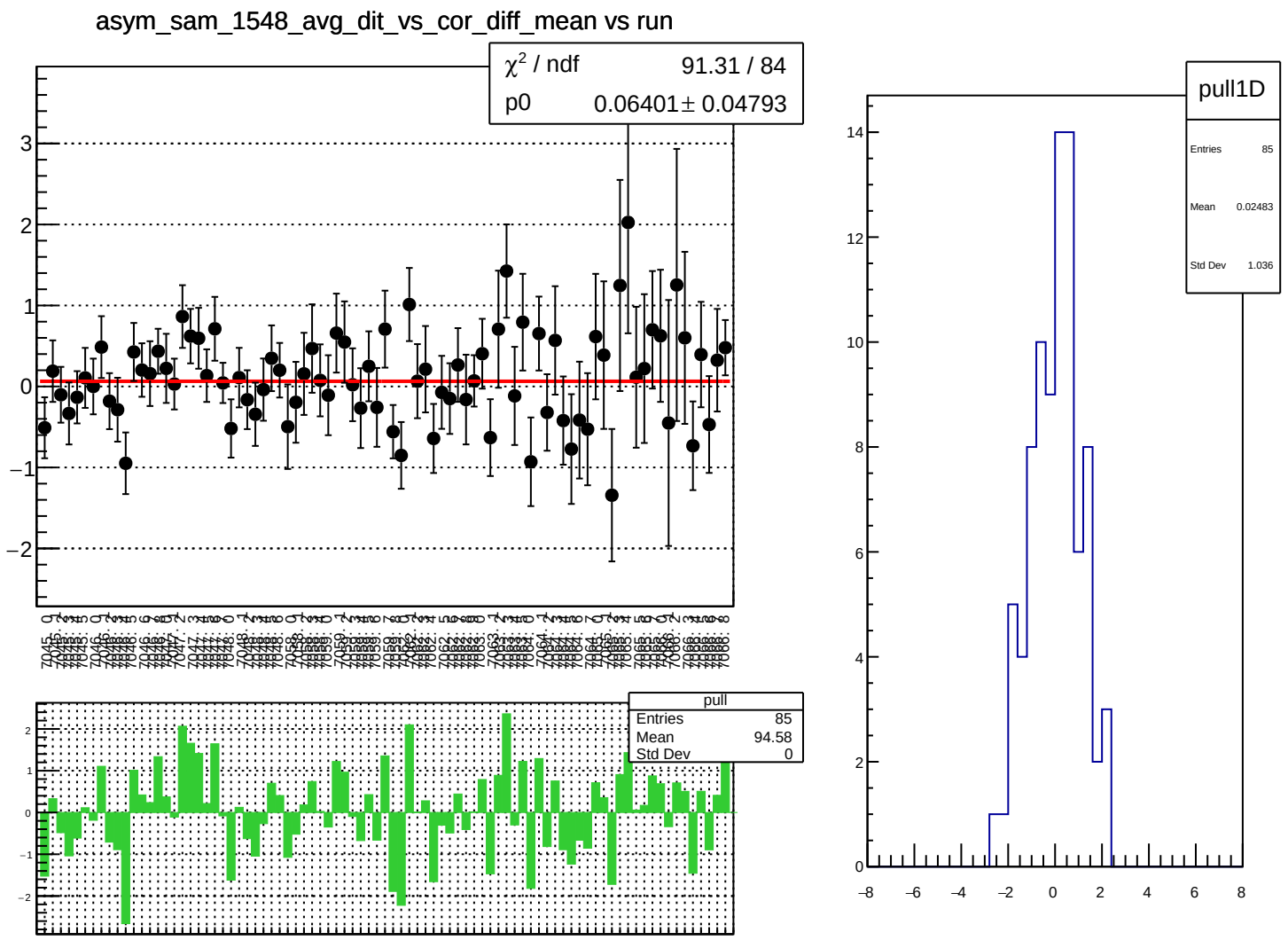

pull1D
Entries 85
Mean 0.01447
Std Dev 0.9786

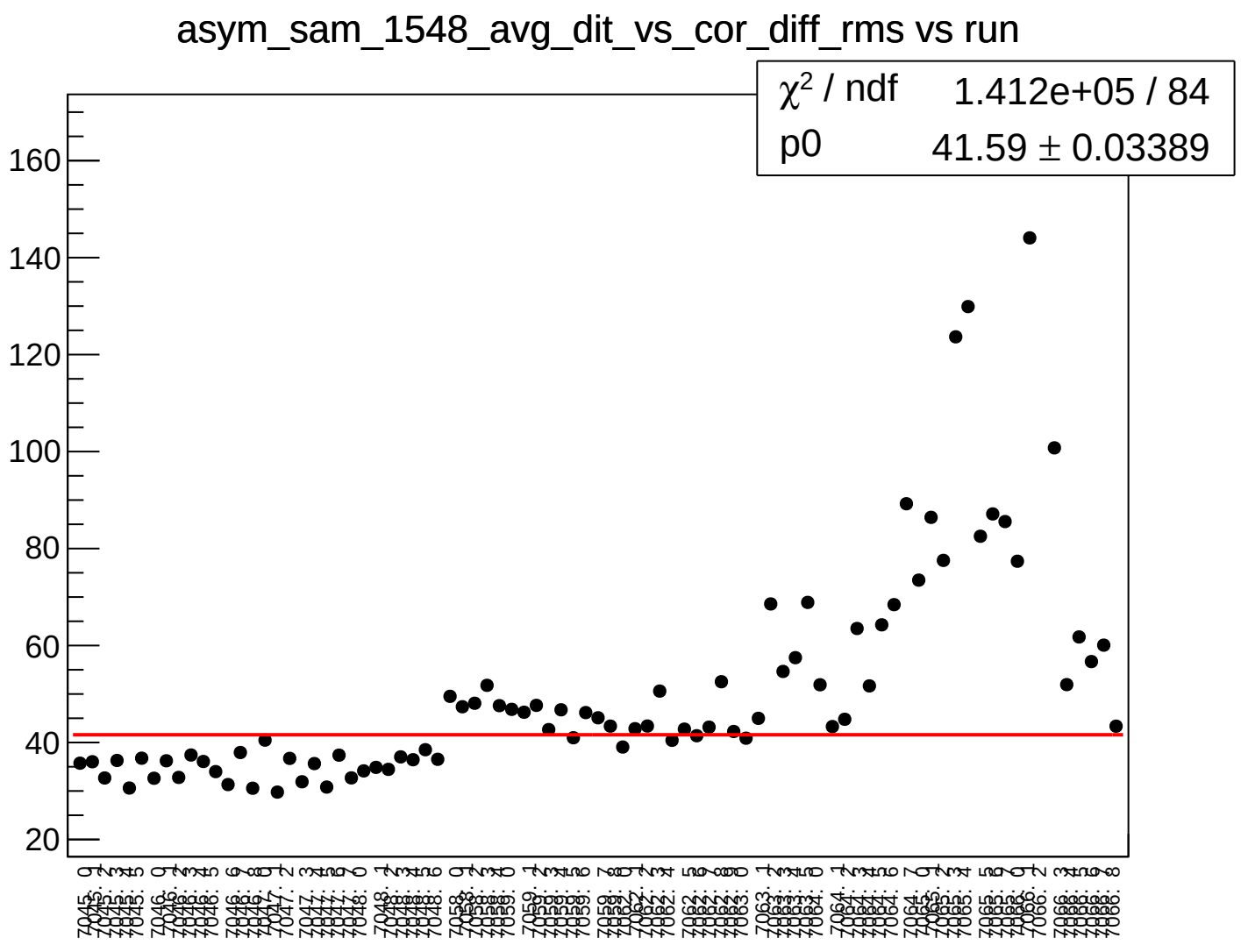

asym_sam_1548_avg_rms vs run
χ² / ndf 1.281e+04 / 84
p0 743.5 ± 0.5816
850
800
750
700
650

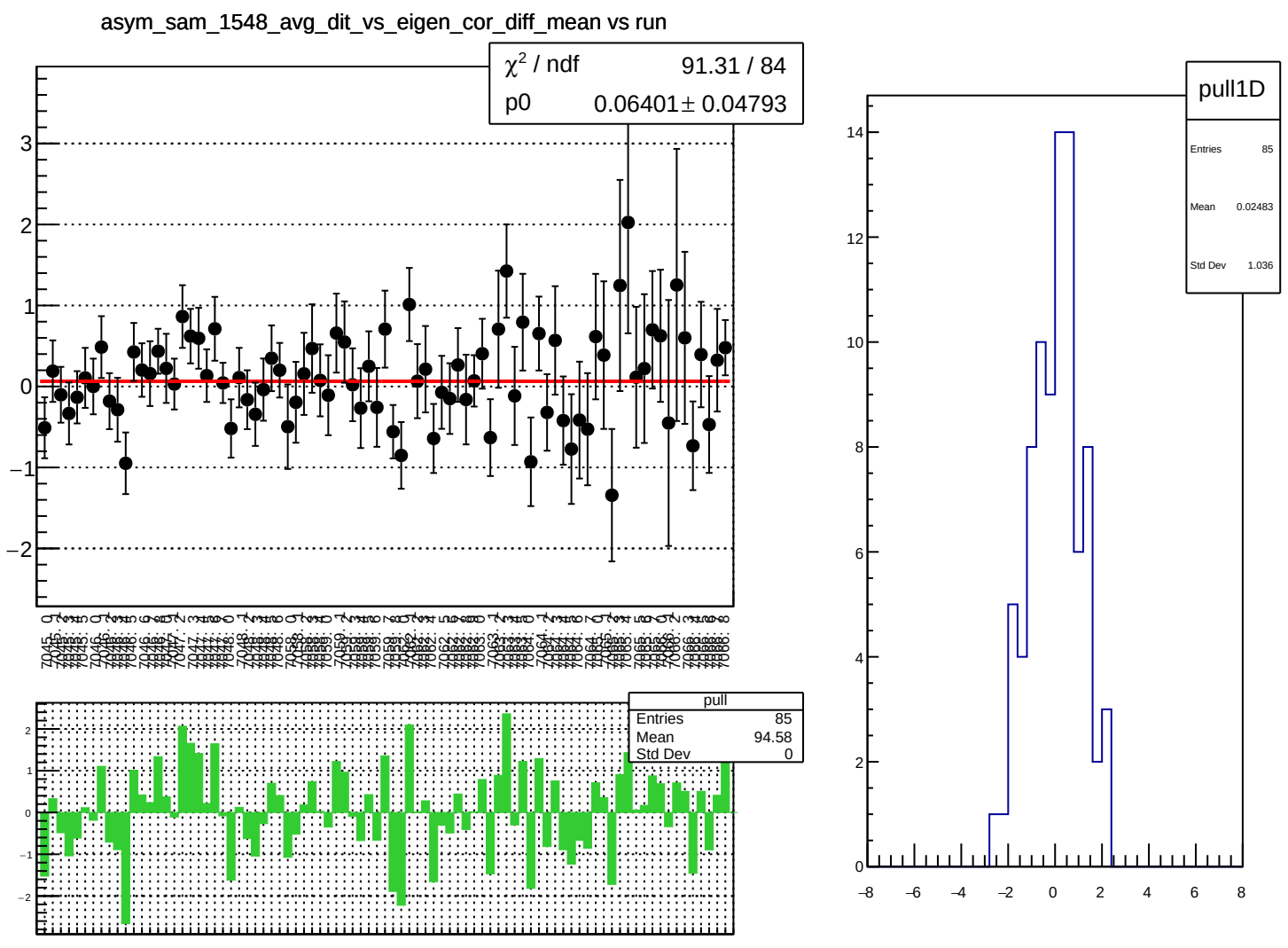

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.76 / 84
p0 1.358e−14 ± 2.432e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 74.34
Std Dev 0
2
1
0
−1
−2

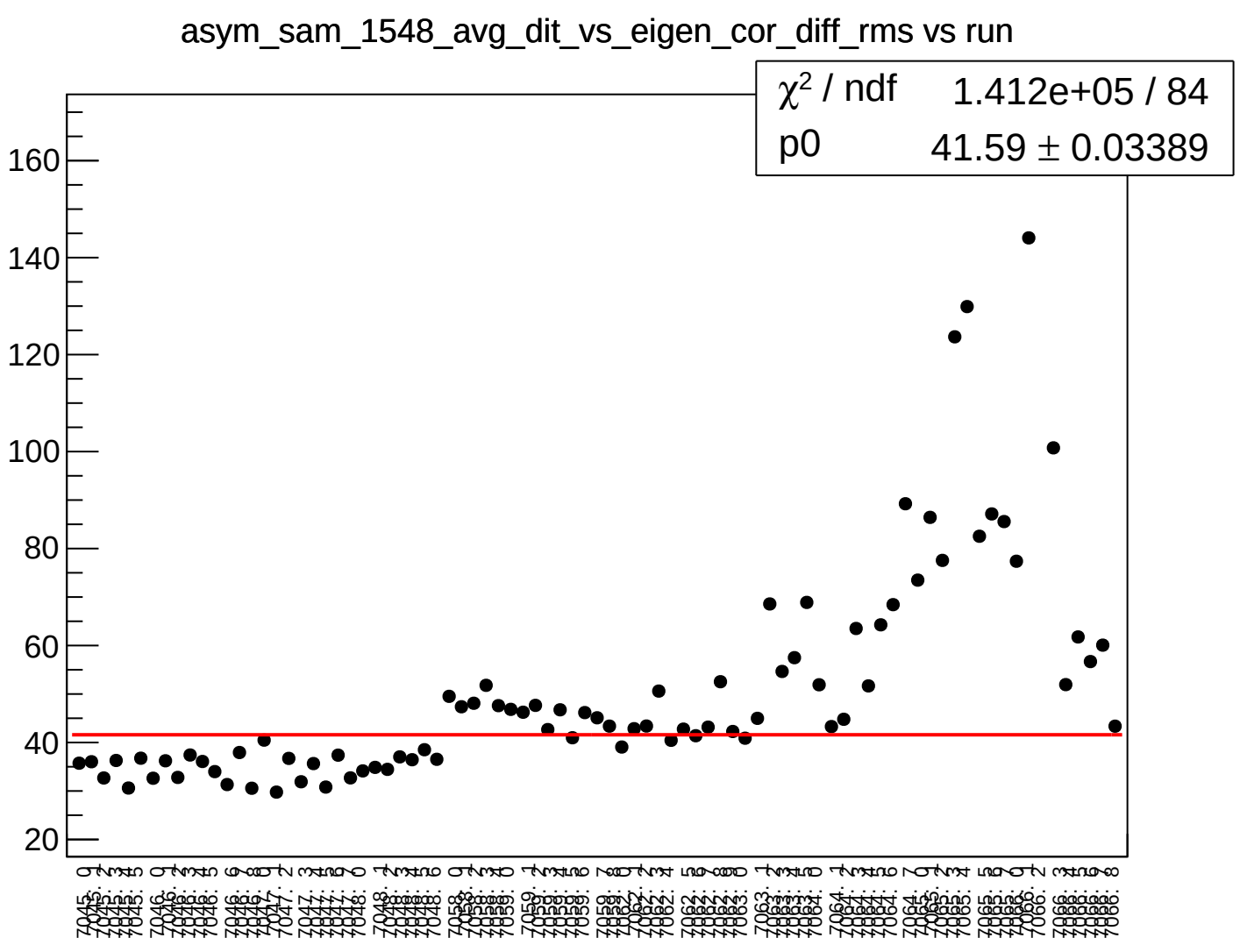

pull1D
Entries 85
Mean −0.04883
Std Dev 0.9974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

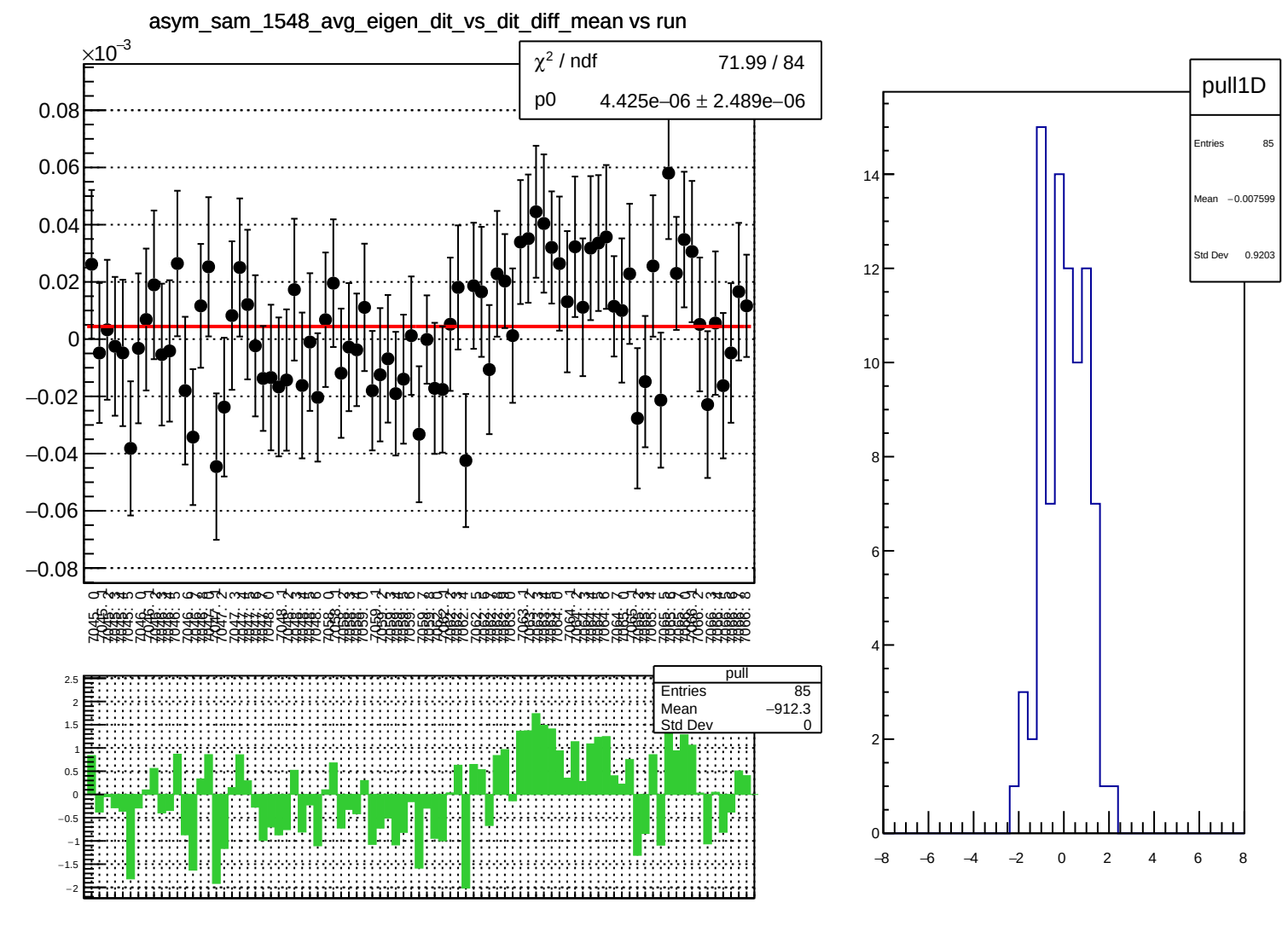

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 84
p0 1.321e−11 ± 1.72e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

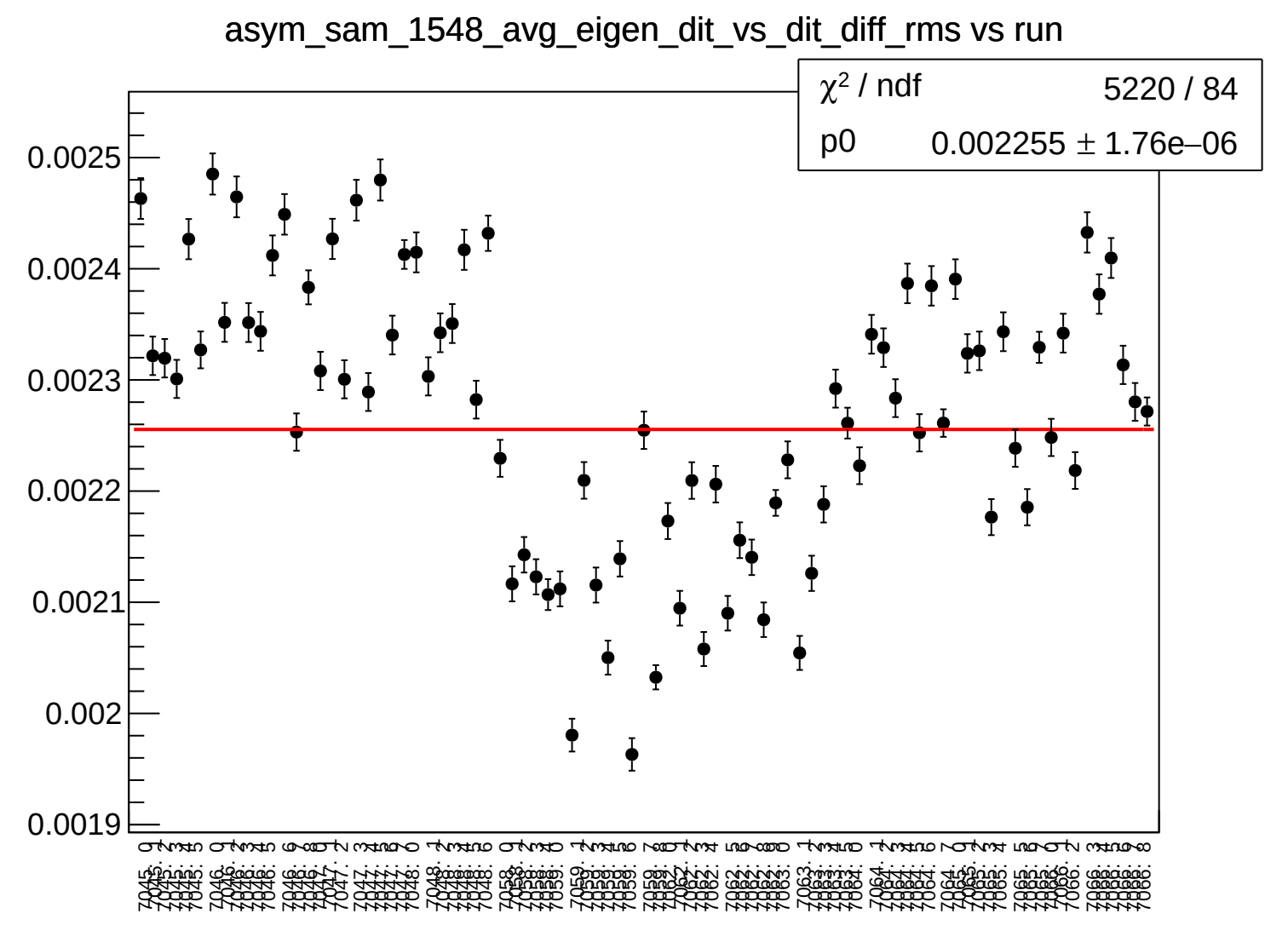

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 84
p0 0.06401 ± 0.04793
pull
Entries 85
Mean 94.58
Std Dev 0
pull1D
Entries 85
Mean 0.02483
Std Dev 1.036

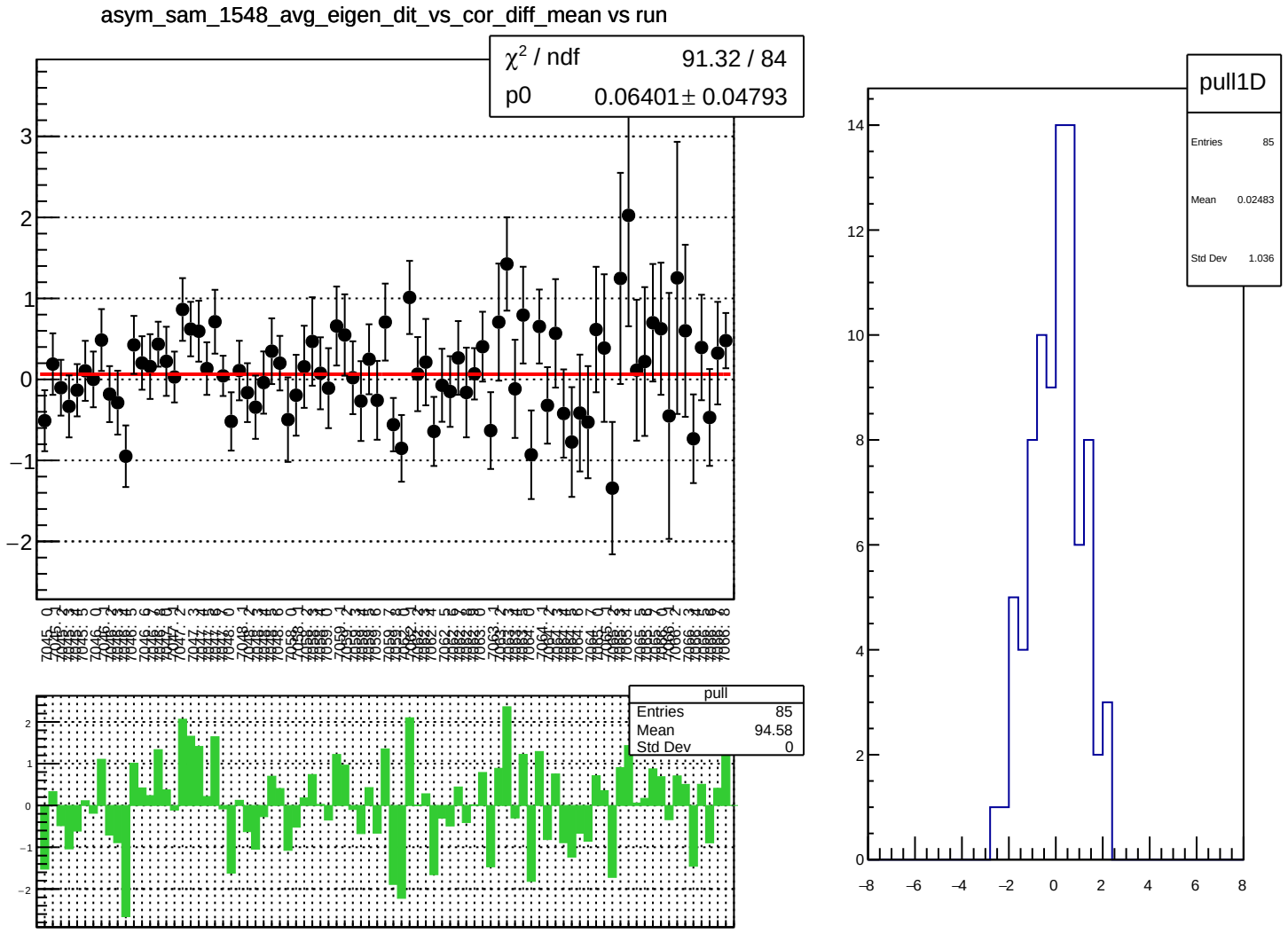

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 84
p0 41.59 ± 0.03389
160
140
120
100
80
60
40
20

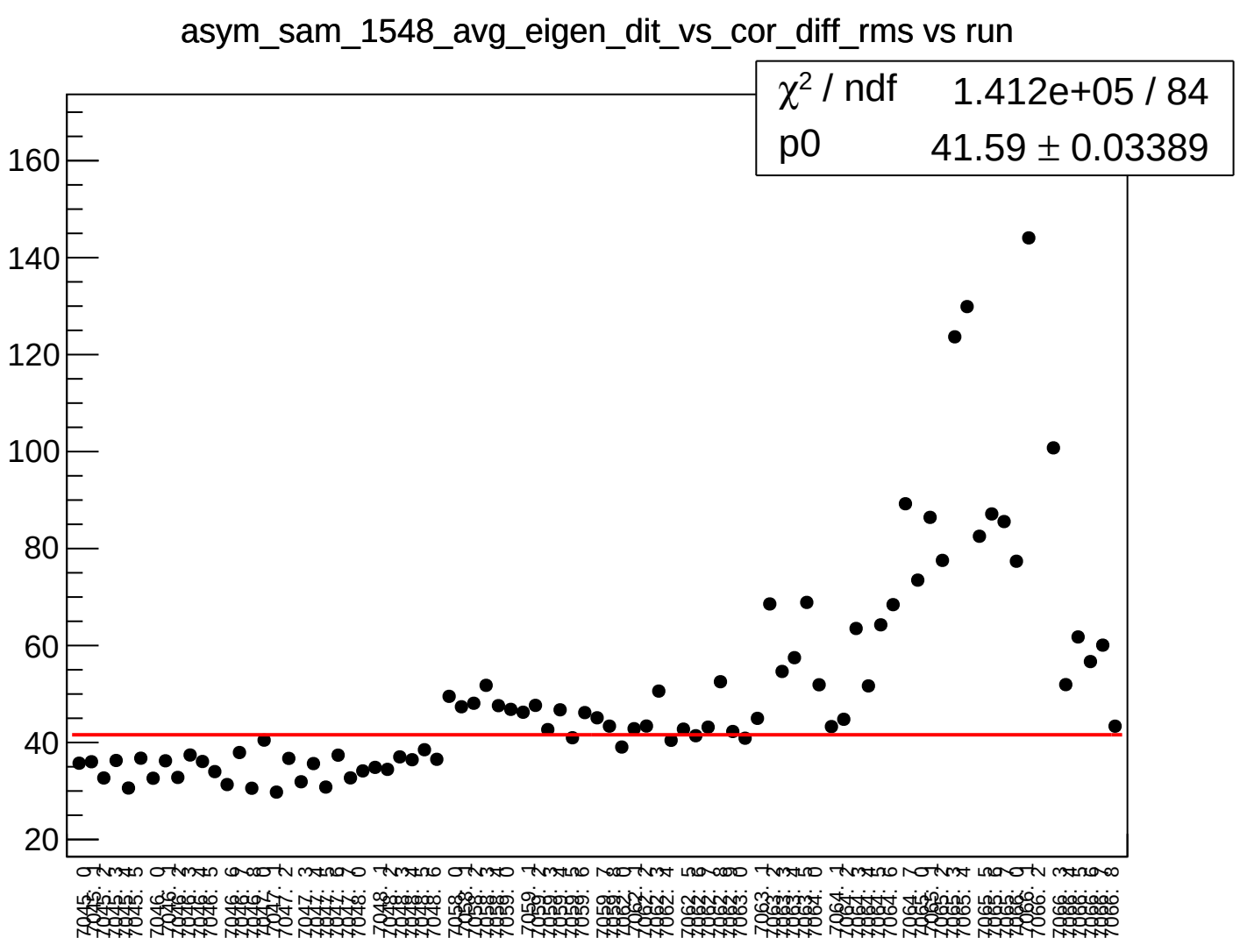

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 84
p0 0.06401 ± 0.04793
pull
Entries 85
Mean 94.58
Std Dev 0
pull1D
Entries 85
Mean 0.02483
Std Dev 1.036

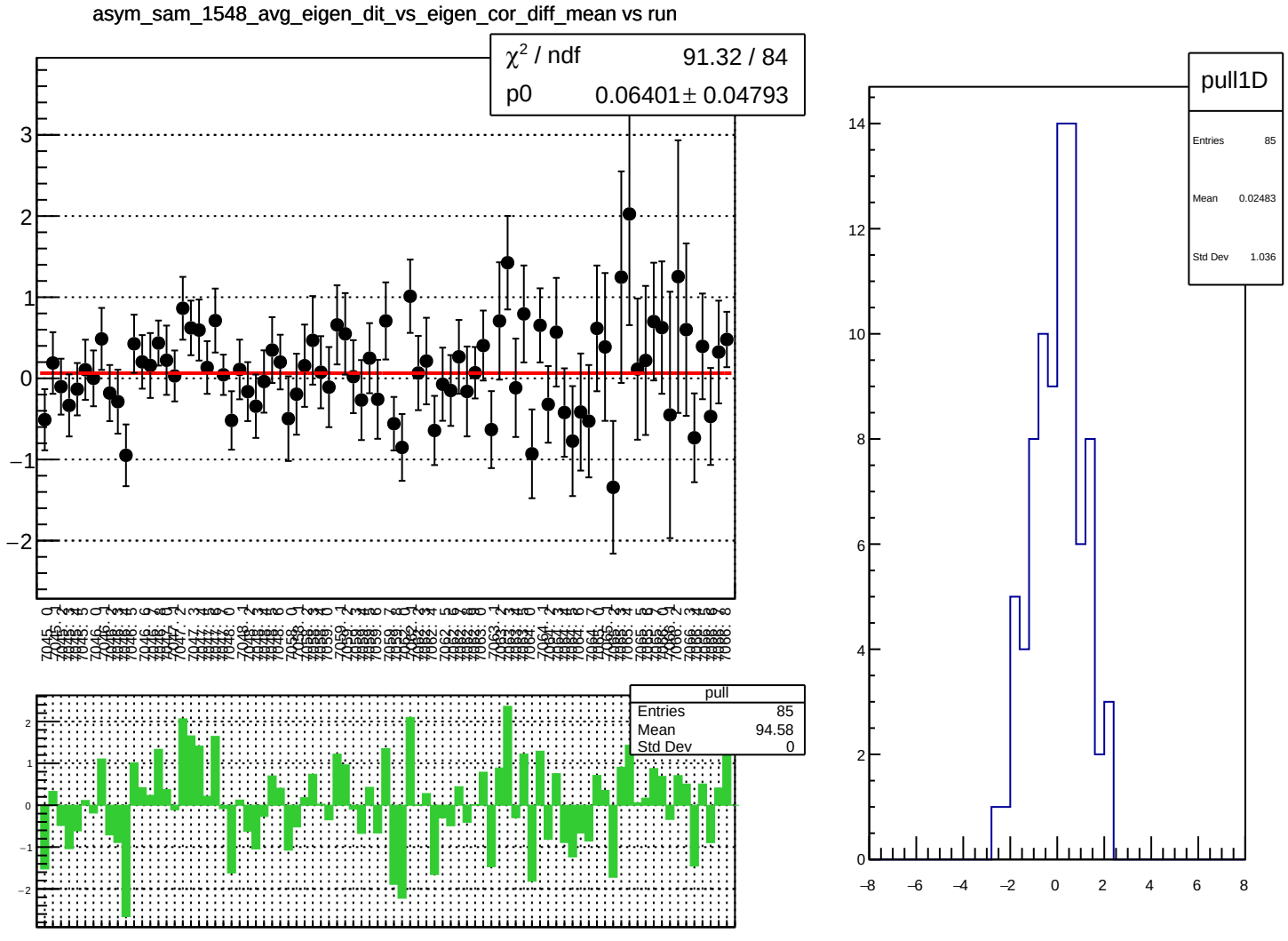

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 84
p0 41.59 ± 0.03389
160
140
120
100
80
60
40
20

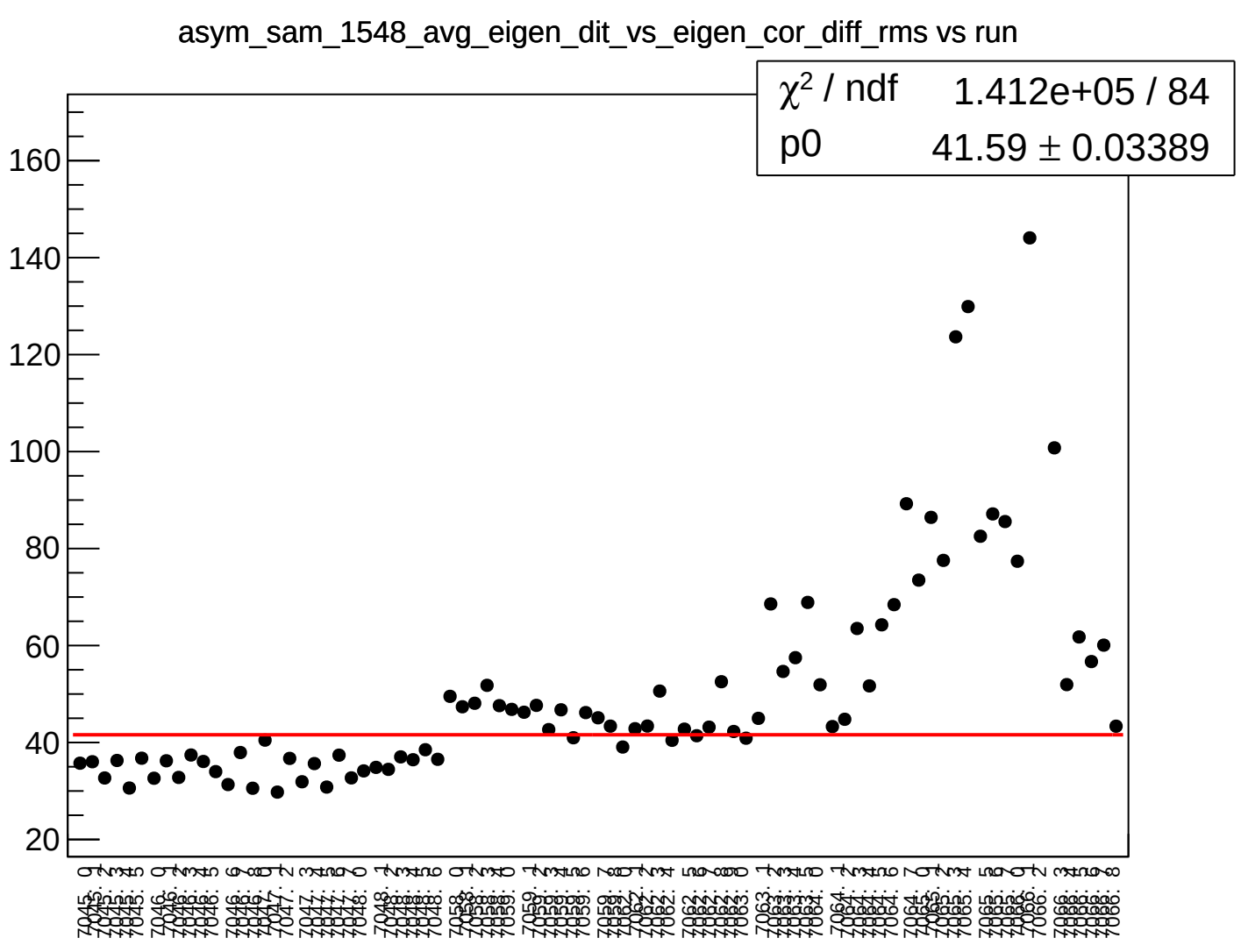

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.99 / 84
p0 4.425e−06 ± 2.489e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 85
Mean −912.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.007599
Std Dev 0.9203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

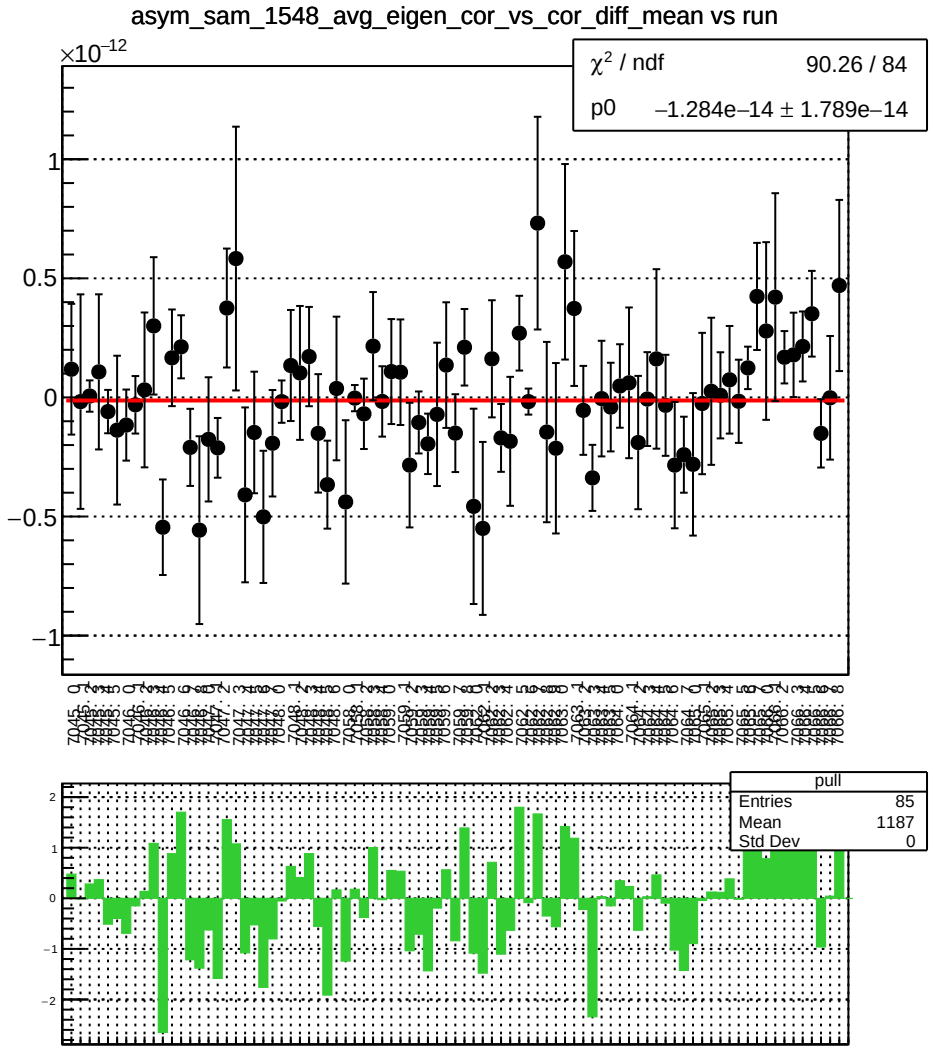

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5220 / 84
p0 0.002255 ± 1.76e–06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

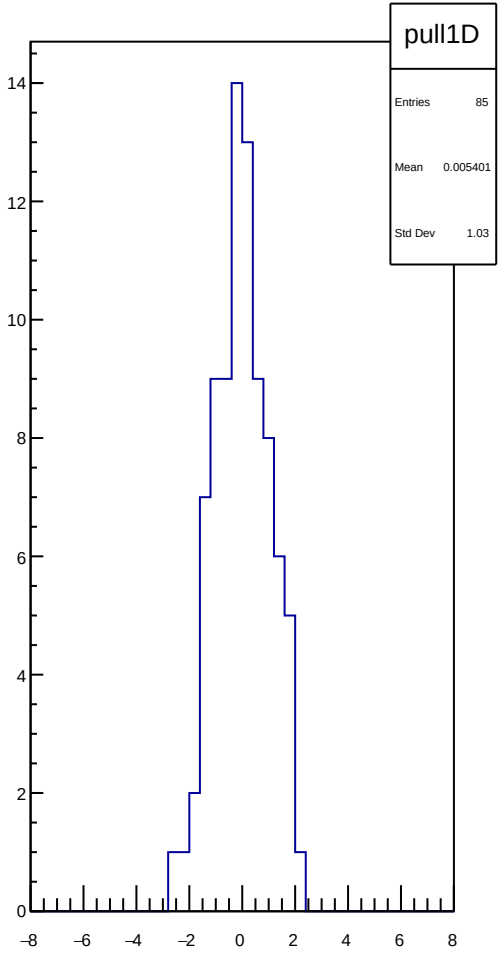

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.32 / 84
p0 0.06401 ± 0.04793
pull
Entries 85
Mean 94.58
Std Dev 0
pull1D
Entries 85
Mean 0.02483
Std Dev 1.036

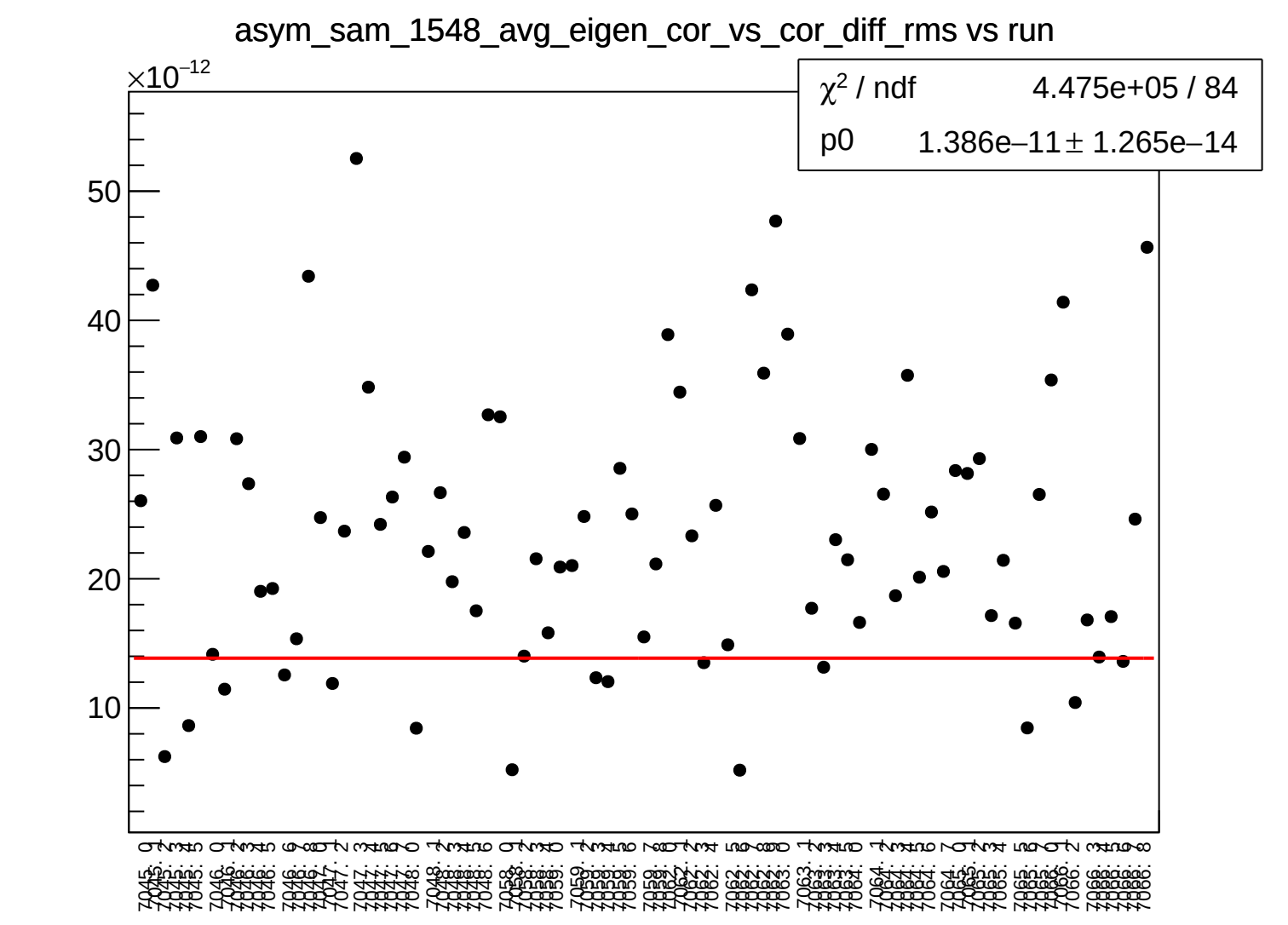

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 84
p0 41.59 ± 0.03389
160
140
120
100
80
60
40
20

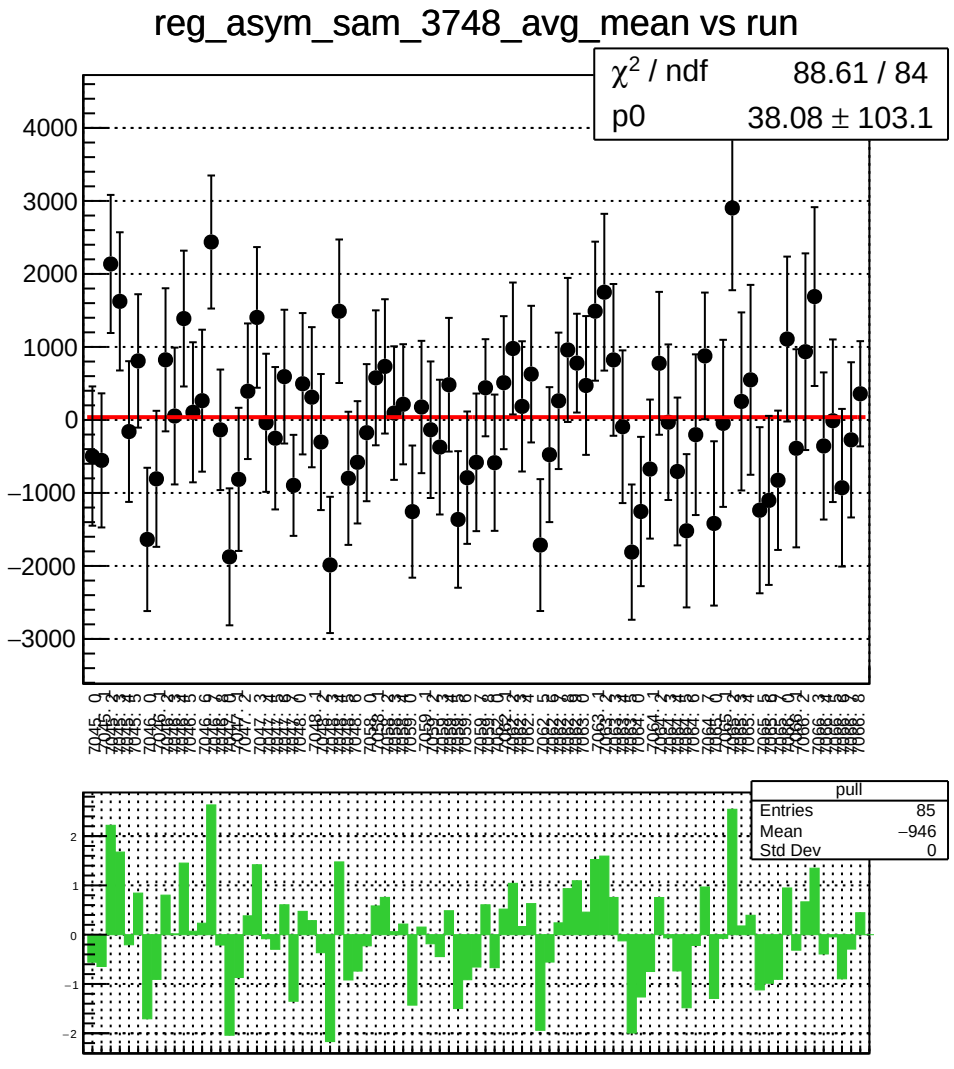

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.32 / 84
p0 0.06401 ± 0.04793
pull
Entries 85
Mean 94.58
Std Dev 0
pull1D
Entries 85
Mean 0.02483
Std Dev 1.036

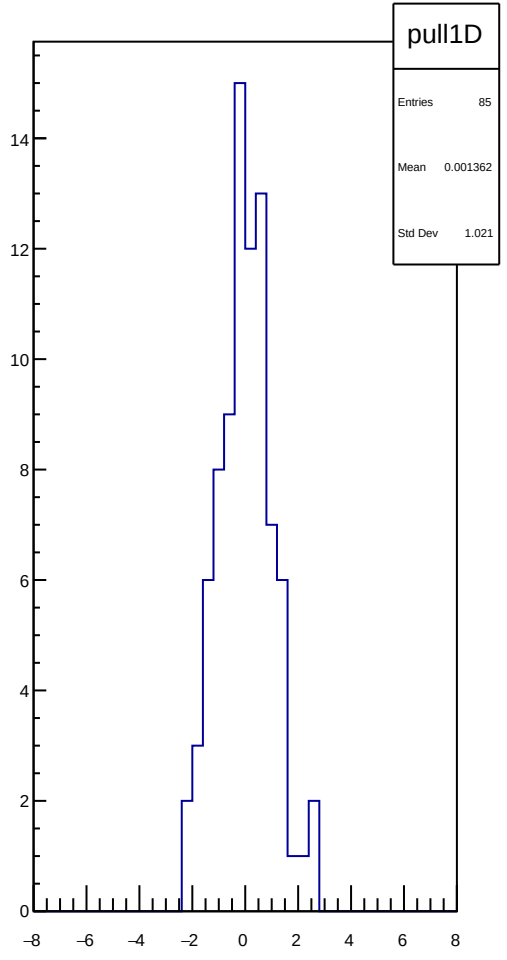

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.412e+05 / 84
p0 41.59 ± 0.03389
160
140
120
100
80
60
40
20

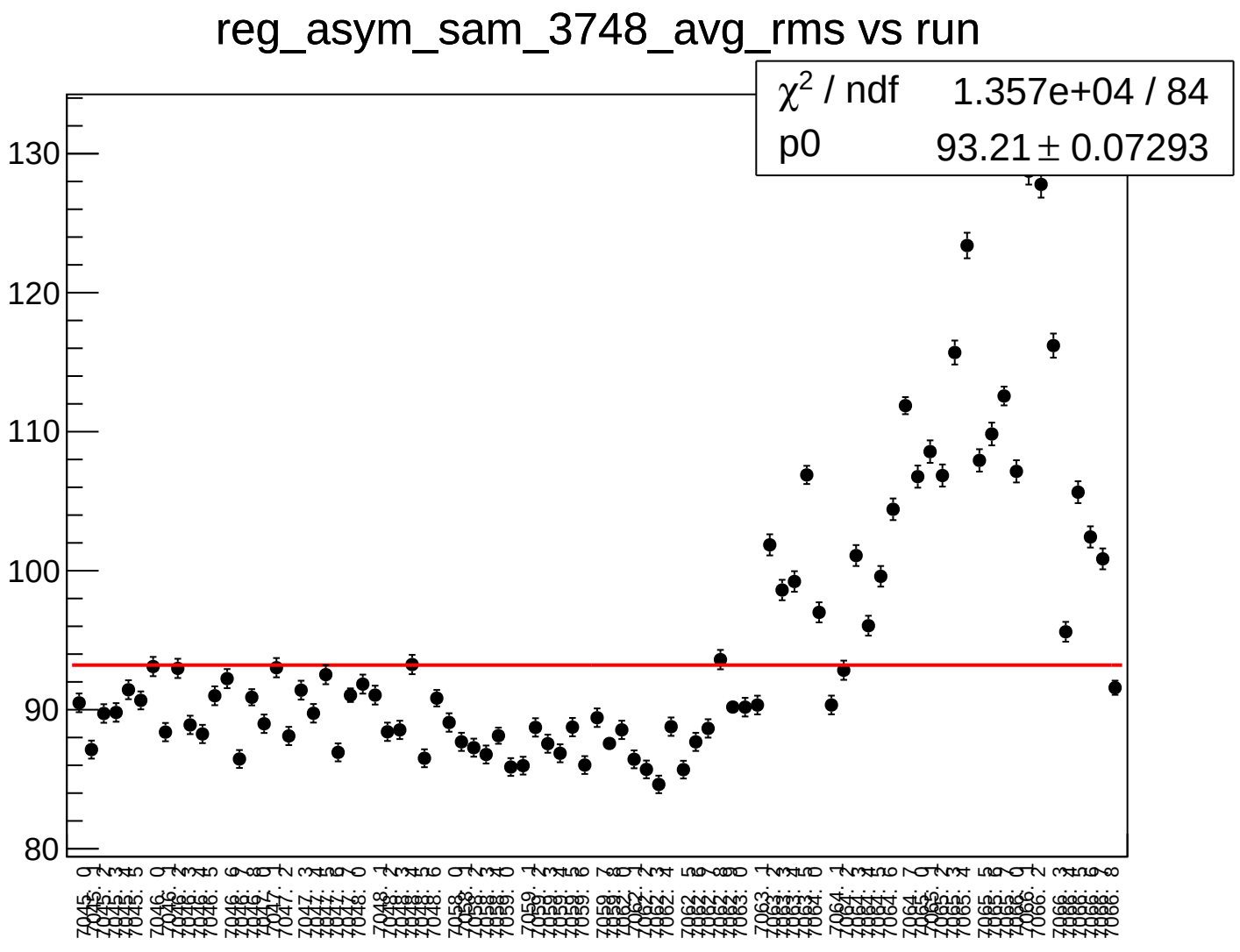

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.26 / 84
p0 −1.284e−14 ± 1.789e−14
pull
Entries 85
Mean 1187
Std Dev 0

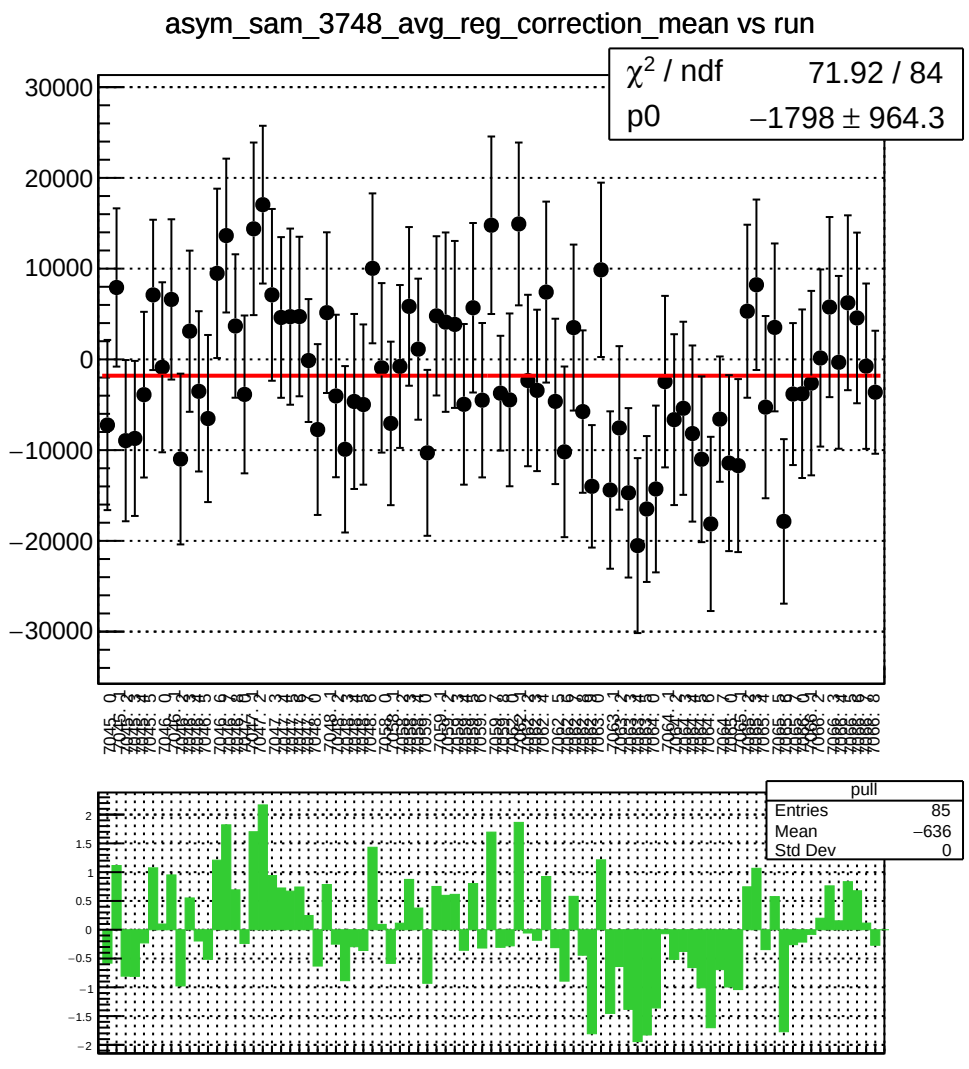

pull1D
Entries 85
Mean 0.005401
Std Dev 1.03

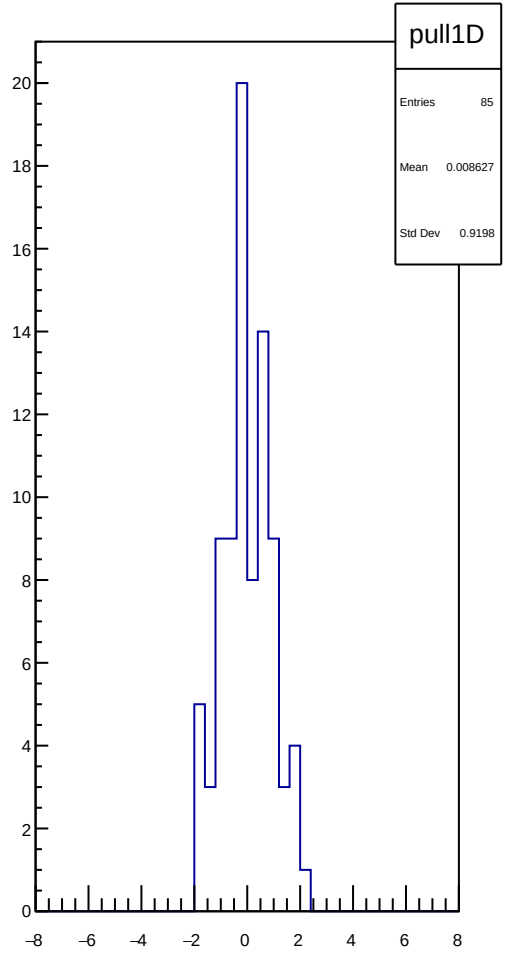

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.475e+05 / 84
p0 1.386e−11 ± 1.265e−14
50
40
30
20
10

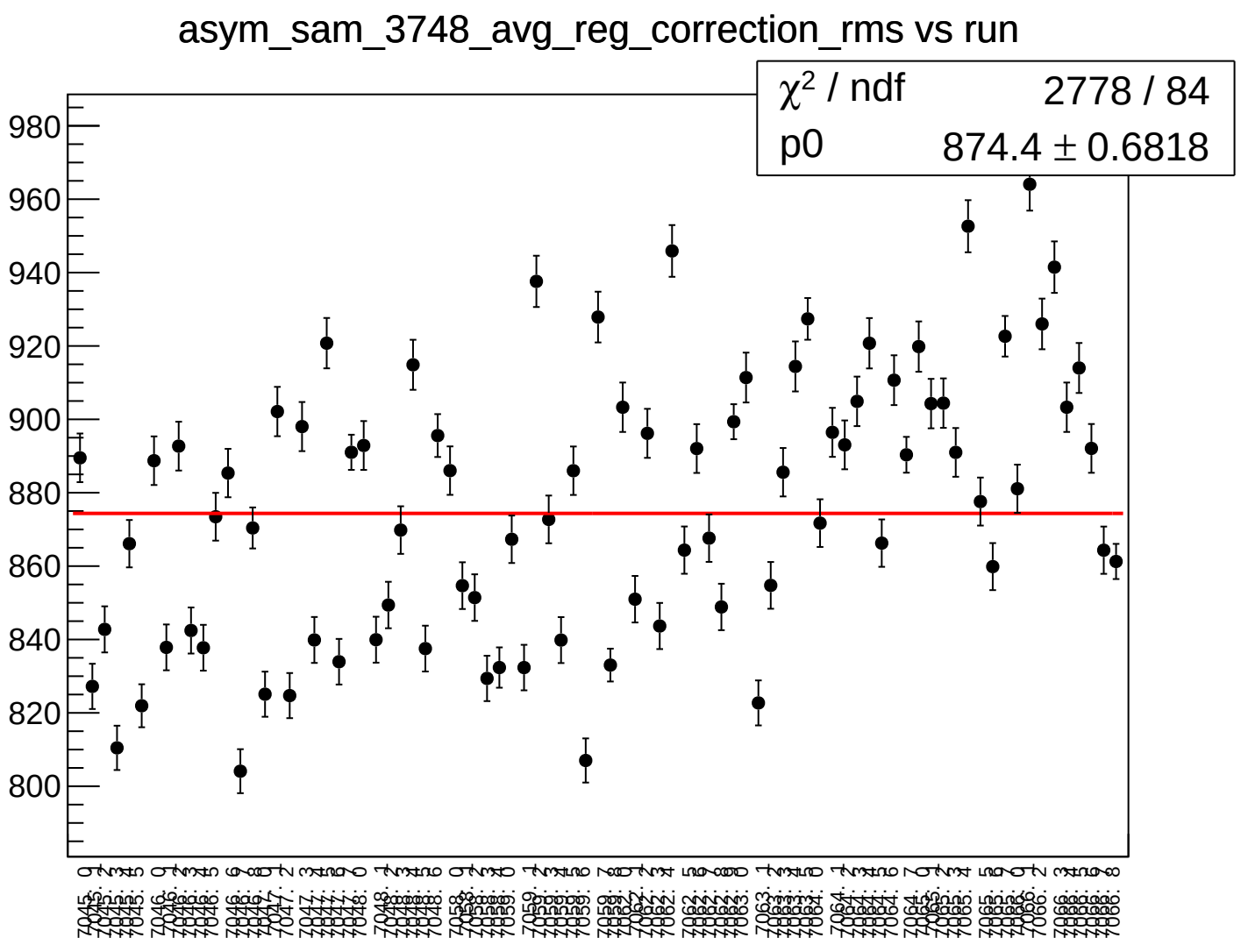

reg_asym_sam_3748_avg_mean vs run
χ^2 / ndf 88.61 / 84
p0 38.08 ± 103.1
pull
Entries 85
Mean −946
Std Dev 0

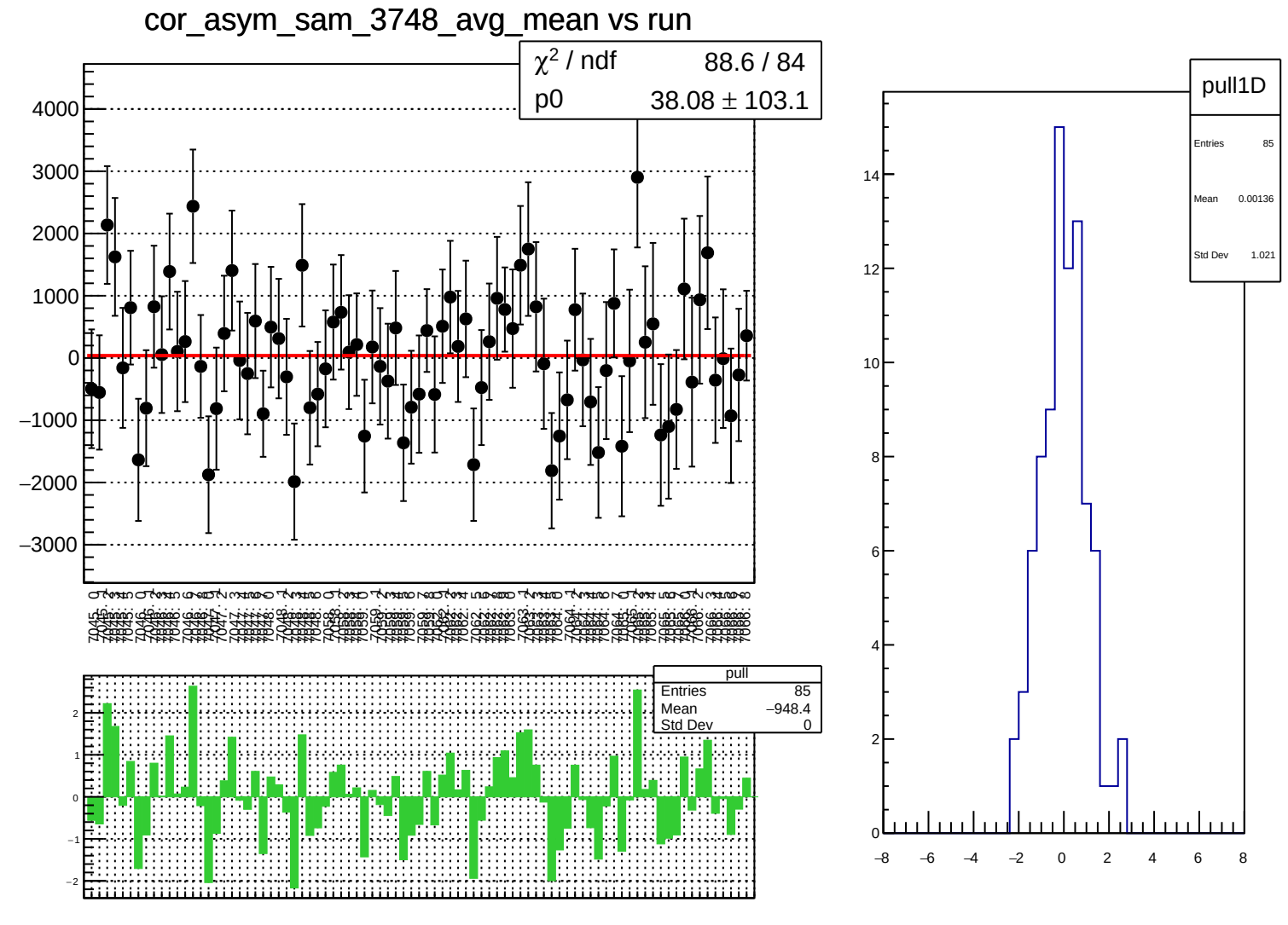

pull1D
Entries 85
Mean 0.001362
Std Dev 1.021

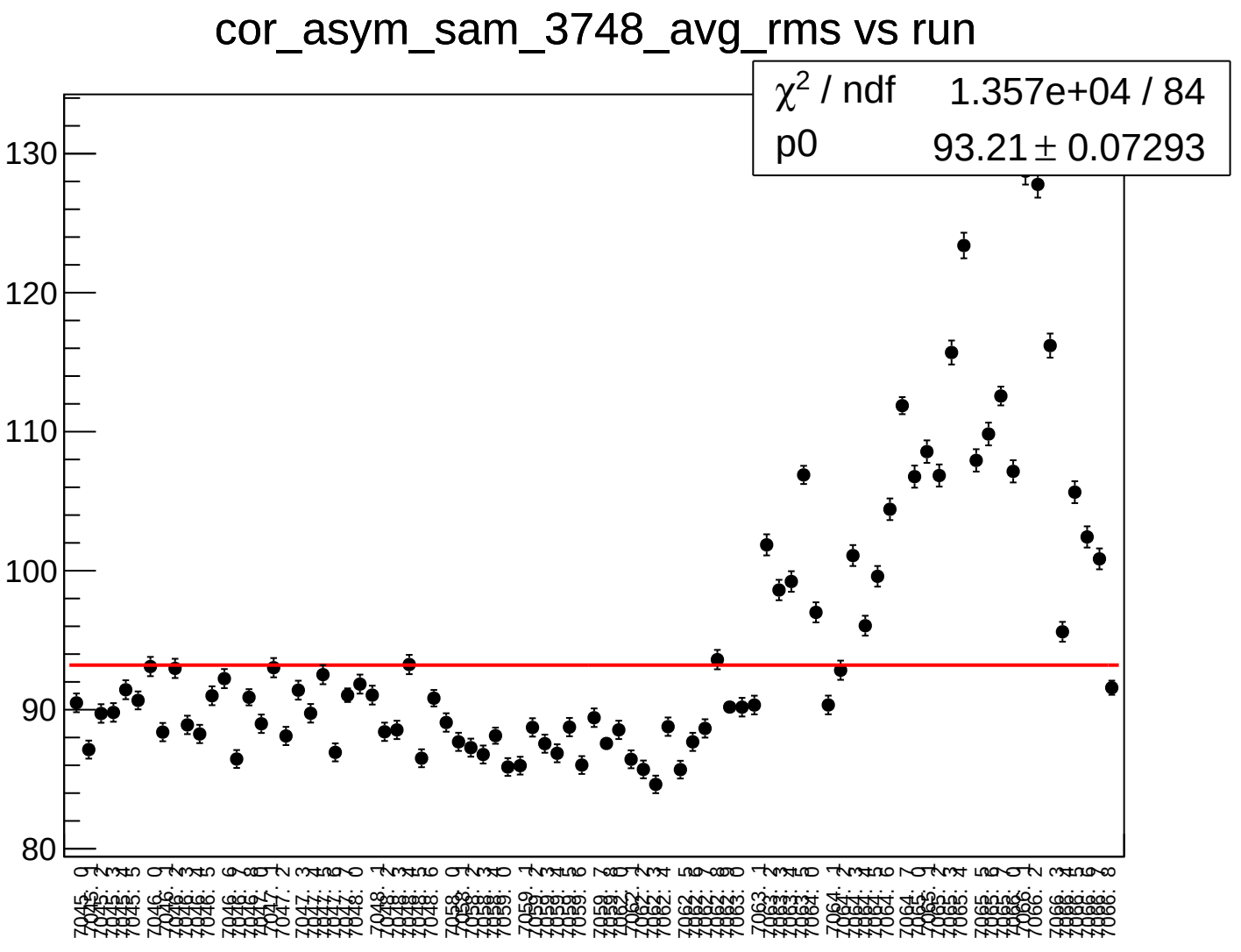

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.357e+04 / 84
p0 93.21 ± 0.07293
130
120
110
100
90
80

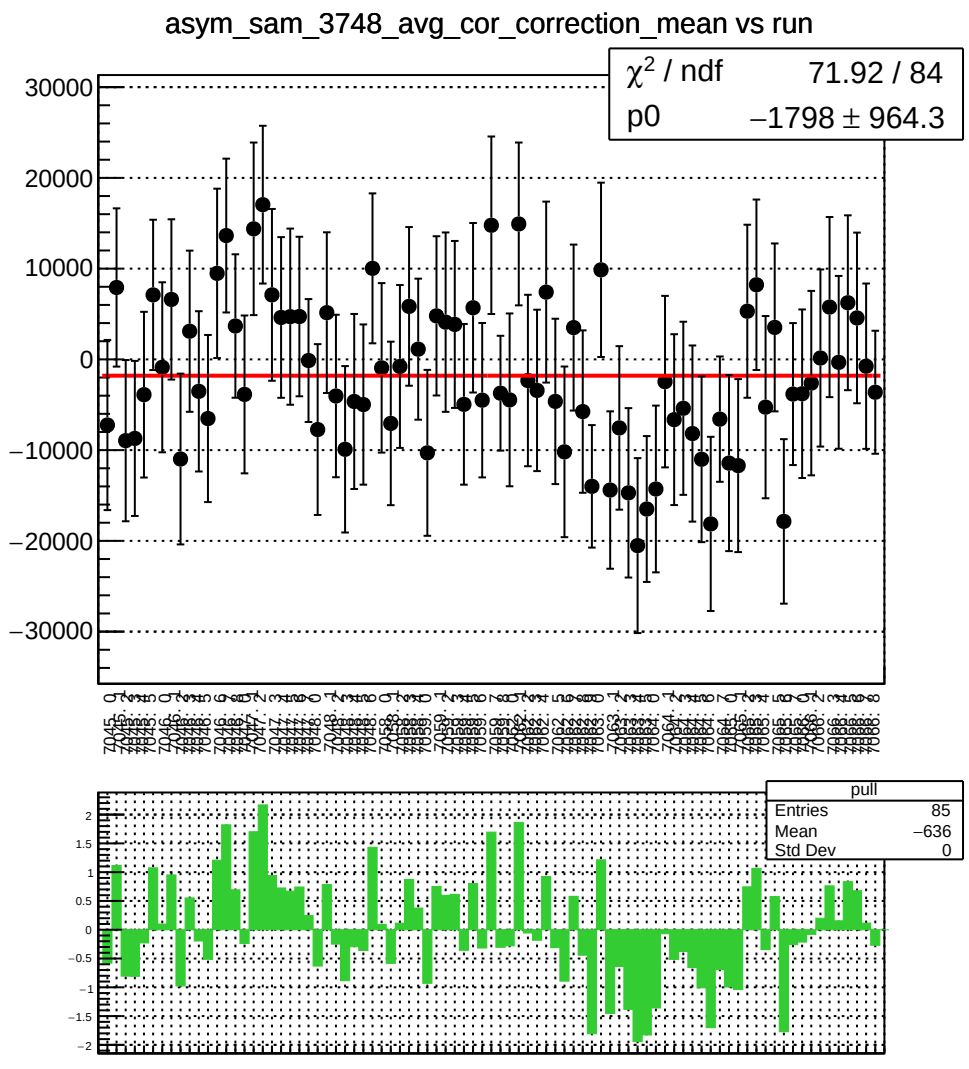

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 71.92 / 84
p0 −1798 ± 964.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −636
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

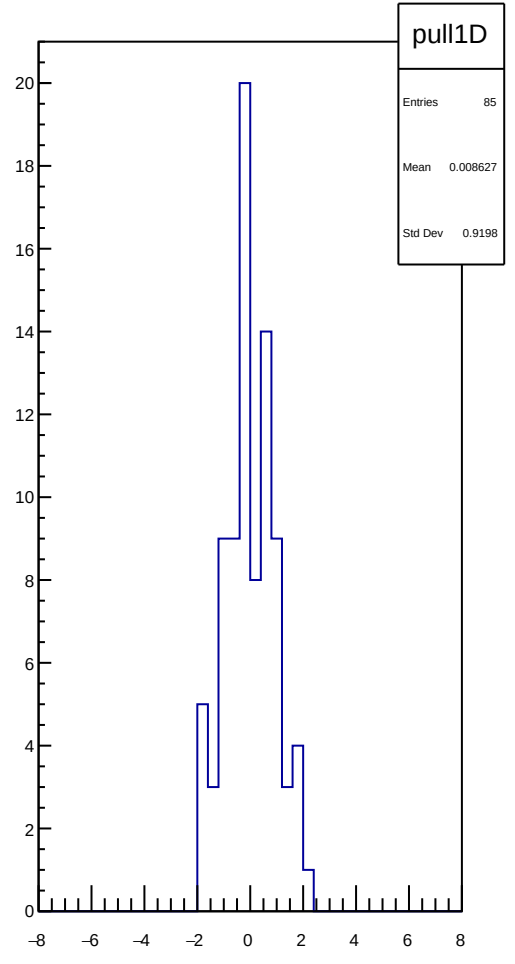

pull1D
Entries 85
Mean 0.008627
Std Dev 0.9198
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

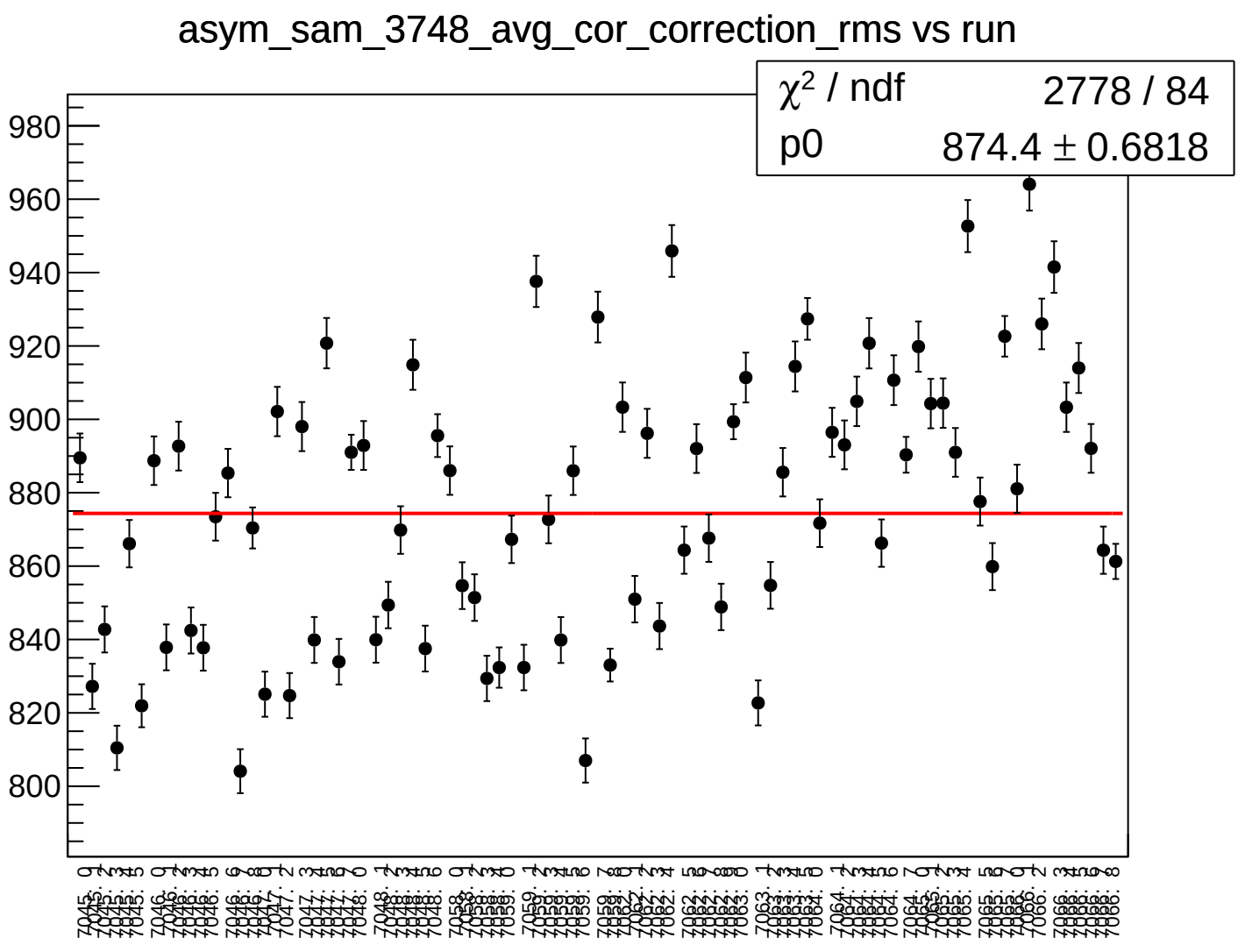

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2778 / 84
p0 874.4 ± 0.6818
980
960
940
920
900
880
860
840
820
800

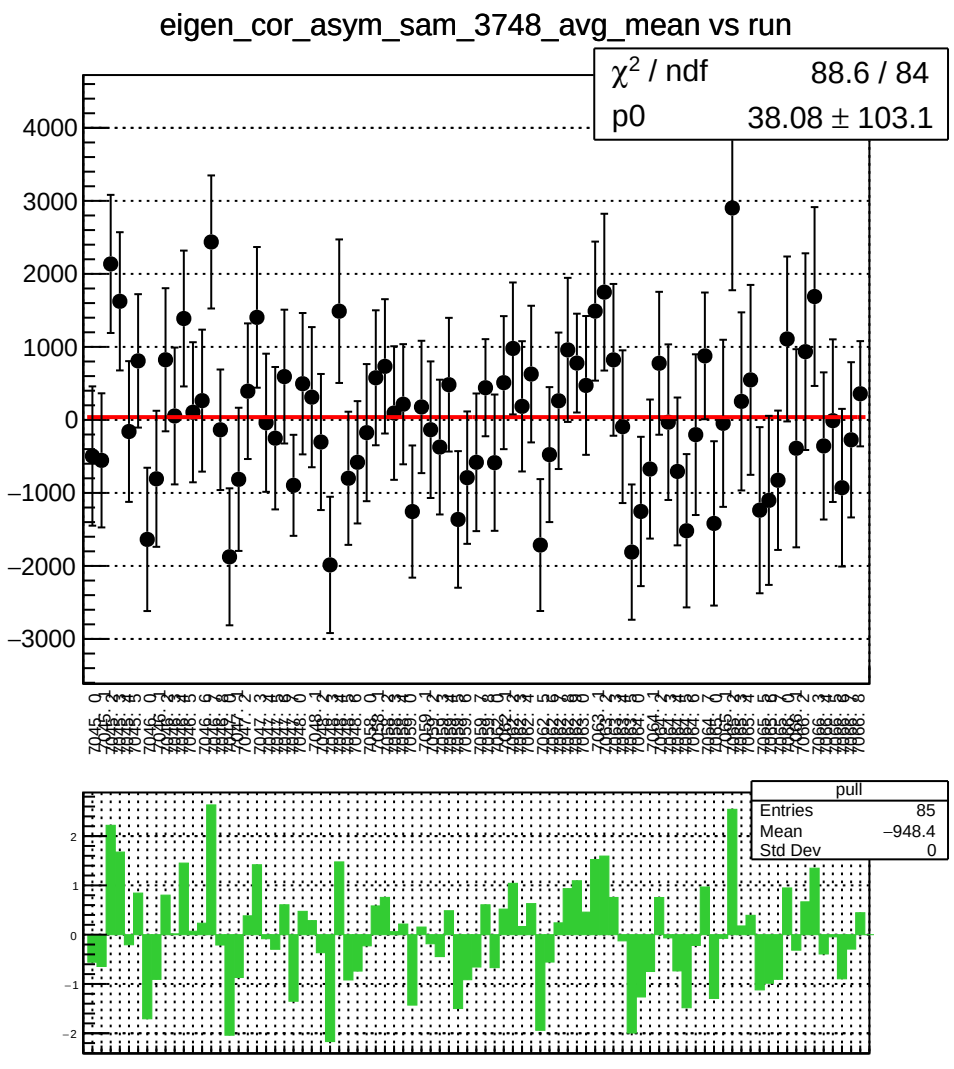

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 88.6 / 84
p0 38.08 ± 103.1
pull
Entries 85
Mean −948.4
Std Dev 0
pull1D
Entries 85
Mean 0.00136
Std Dev 1.021

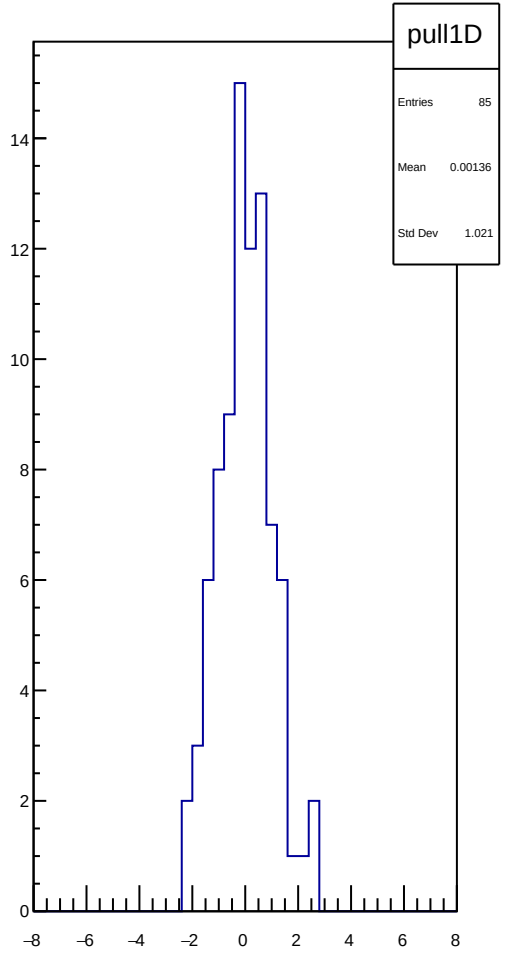

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.357e+04 / 84
p0 93.21 ± 0.07293
130
120
110
100
90
80

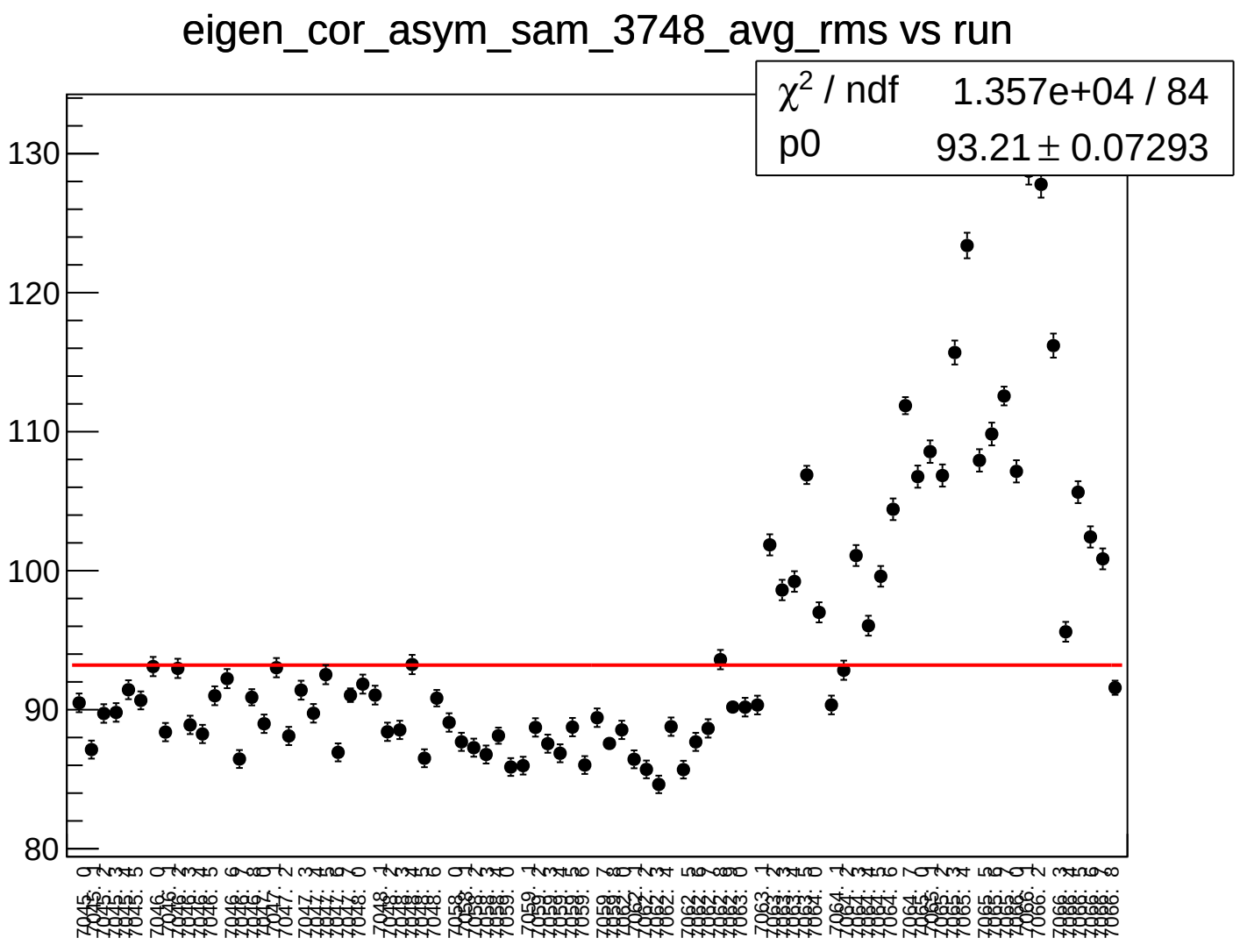

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 71.92 / 84
p0 −1798 ± 964.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −636
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

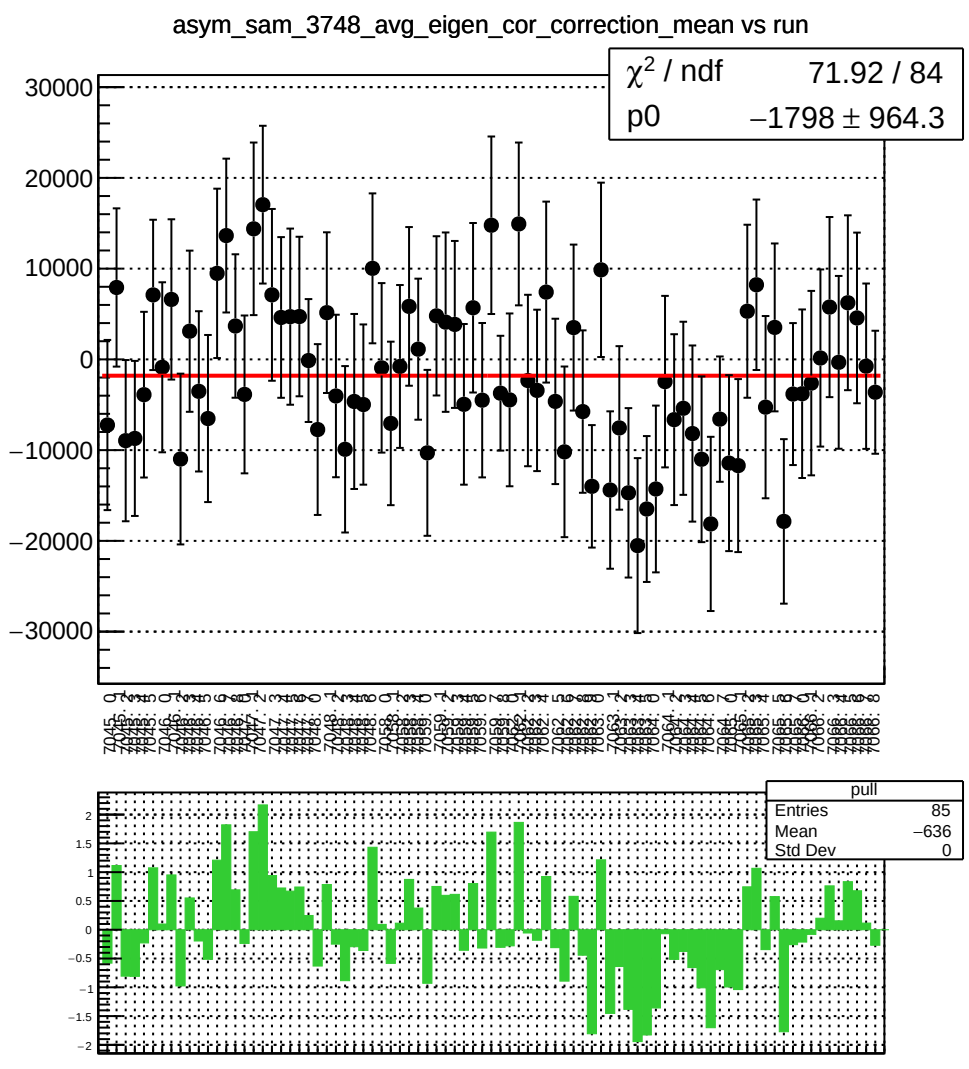

pull1D
Entries 85
Mean 0.008627
Std Dev 0.9198
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

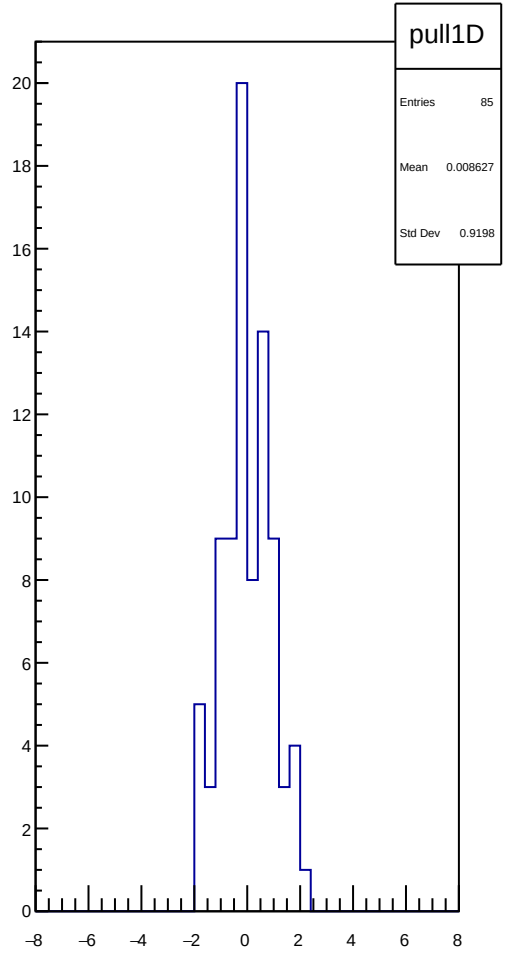

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2778 / 84
p0 874.4 ± 0.6818
980
960
940
920
900
880
860
840
820
800

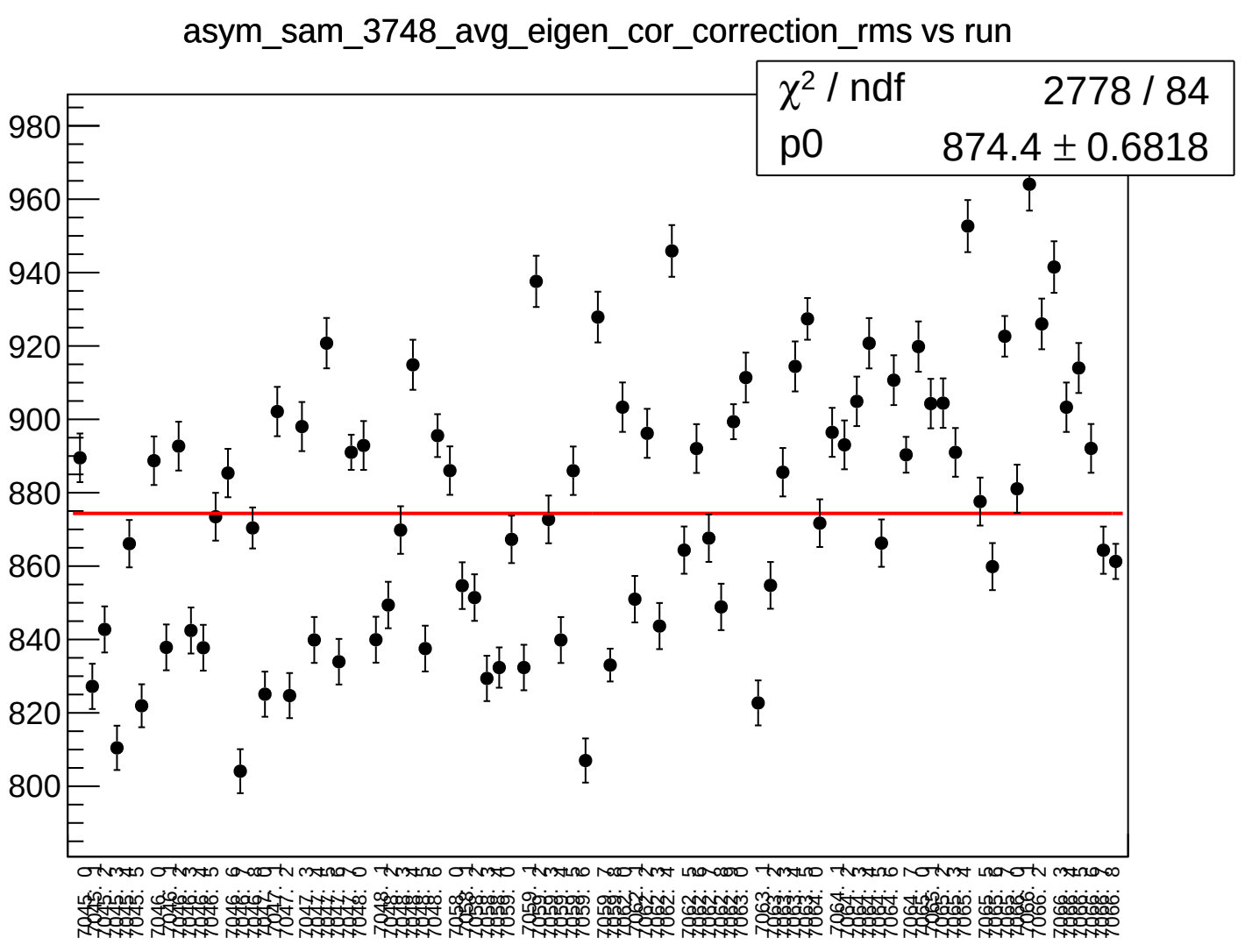

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 88.6 / 84
p0 38.08 ± 103.1
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −948.4
Std Dev 0
2
1
0
−1
−2

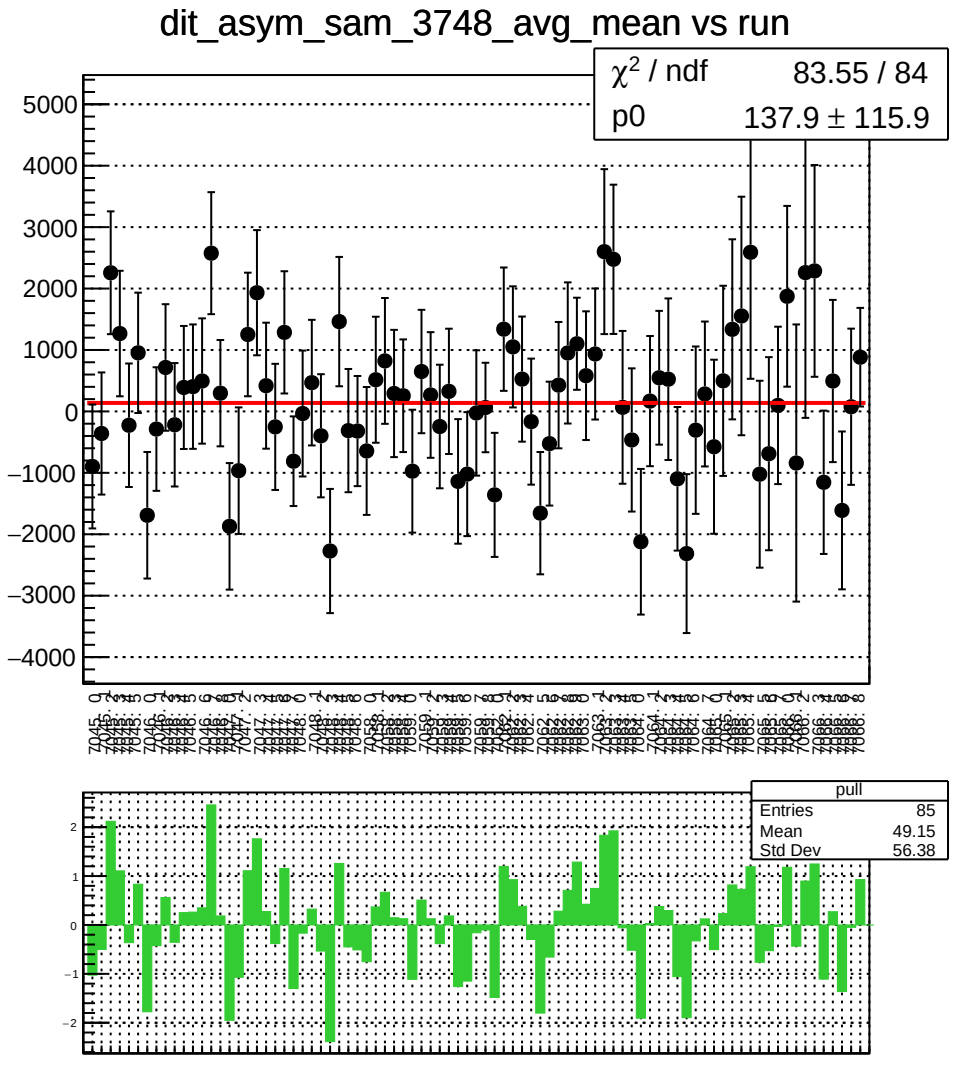

pull1D
Entries 85
Mean 0.00136
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

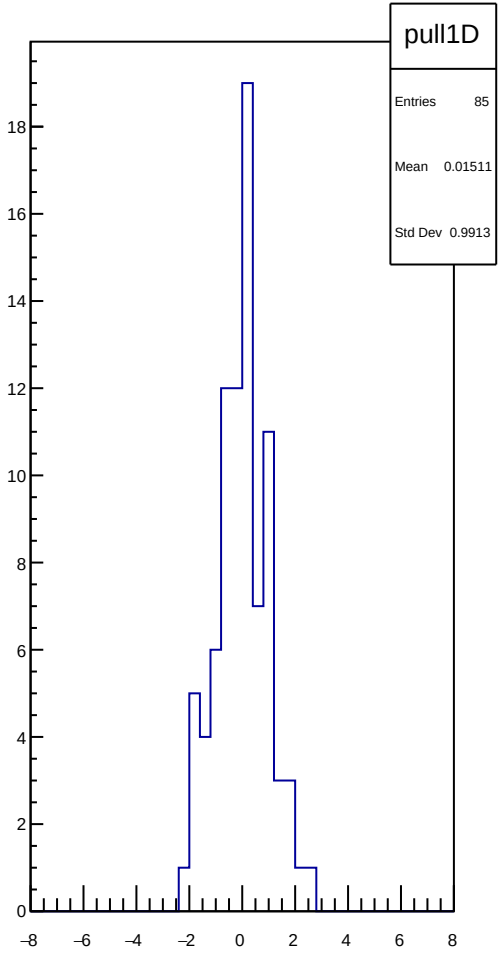

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.357e+04 / 84
p0 93.21 ± 0.07293
130
120
110
100
90
80

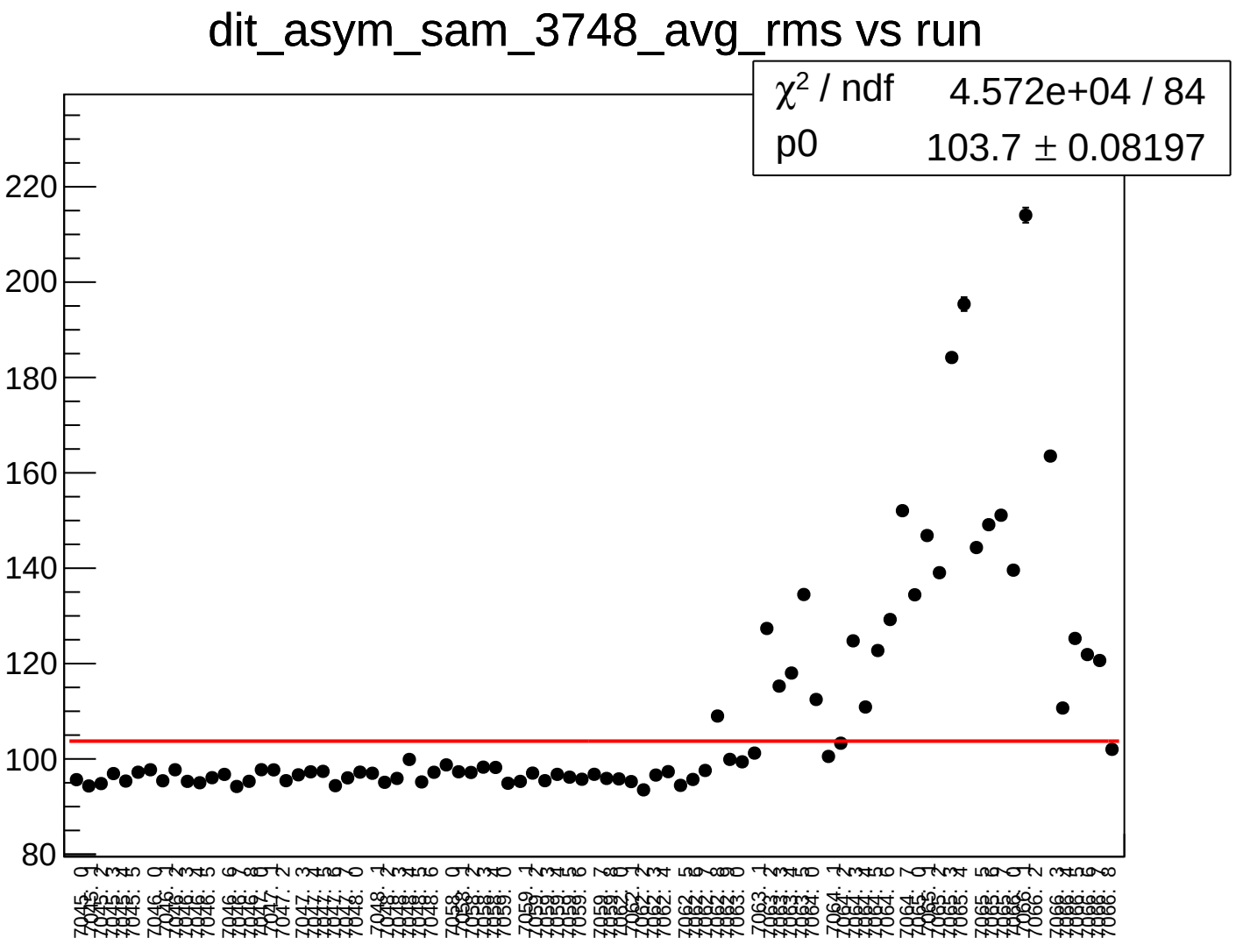

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.92 / 84
p0 −1798 ± 964.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −636
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

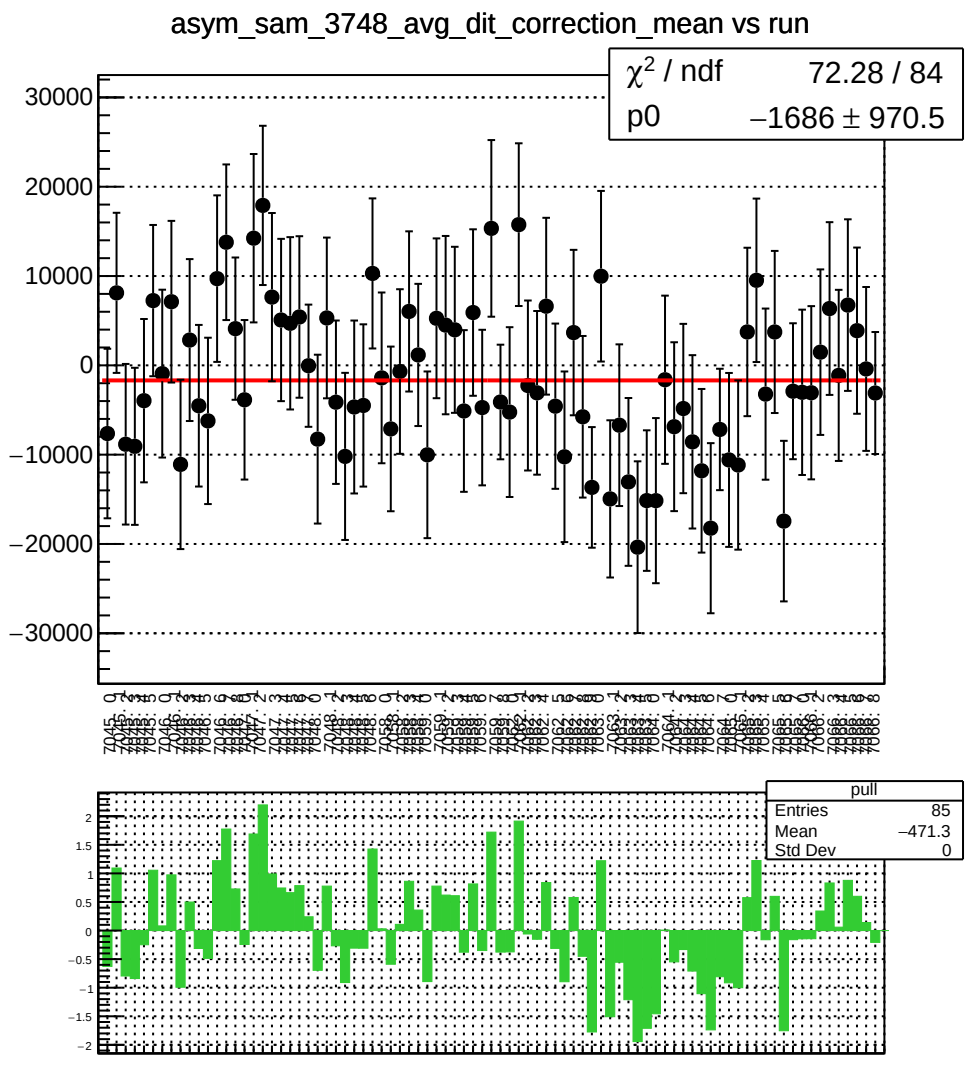

pull1D
Entries 85
Mean 0.008627
Std Dev 0.9198
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

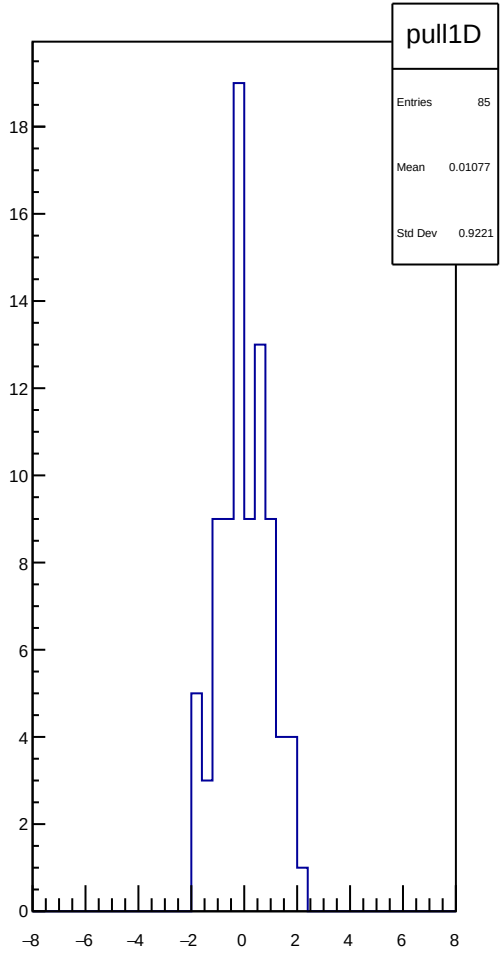

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2778 / 84
p0 874.4 ± 0.6818
980
960
940
920
900
880
860
840
820
800

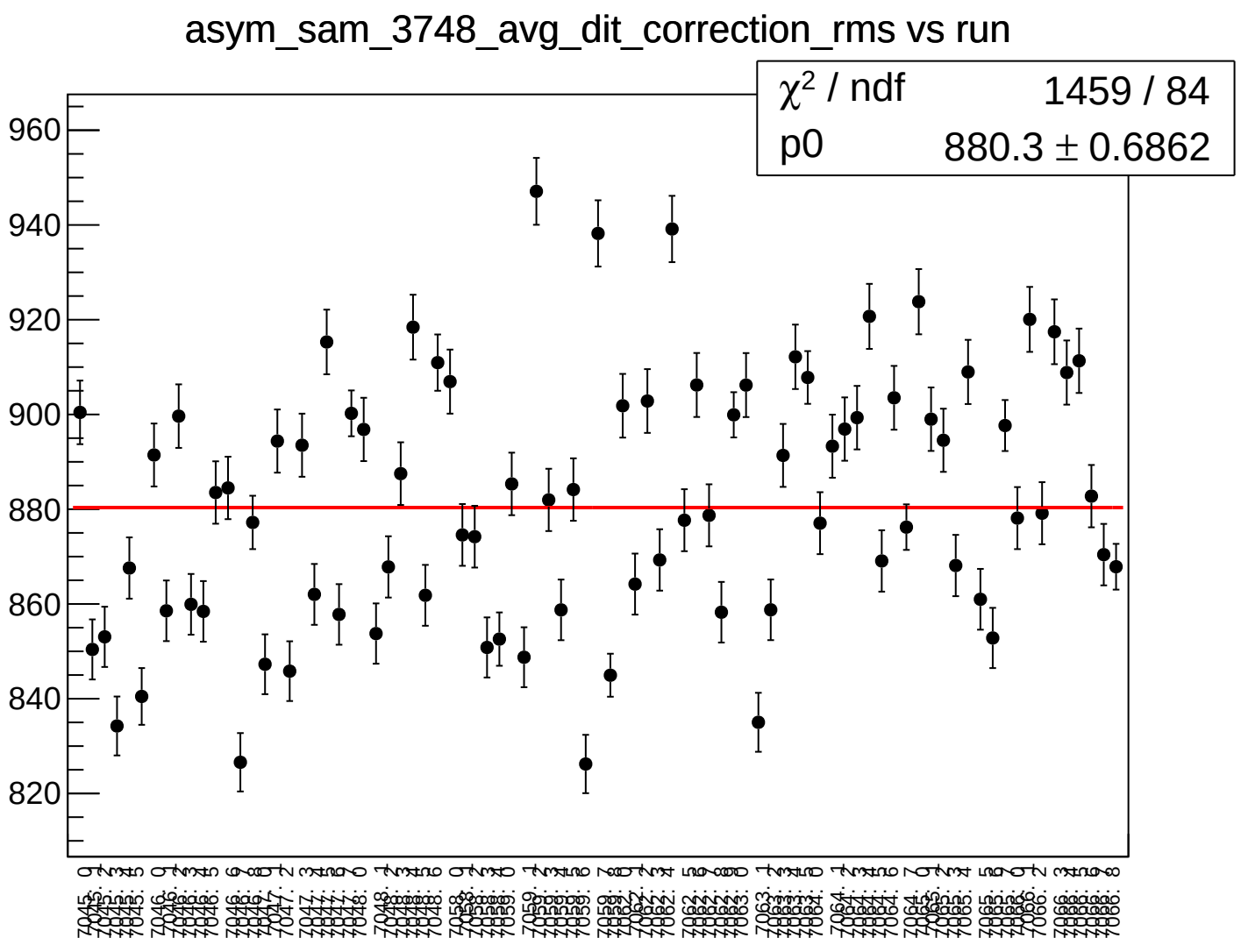

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 83.55 / 84
p0 137.9 ± 115.9
pull
Entries 85
Mean 49.15
Std Dev 56.38

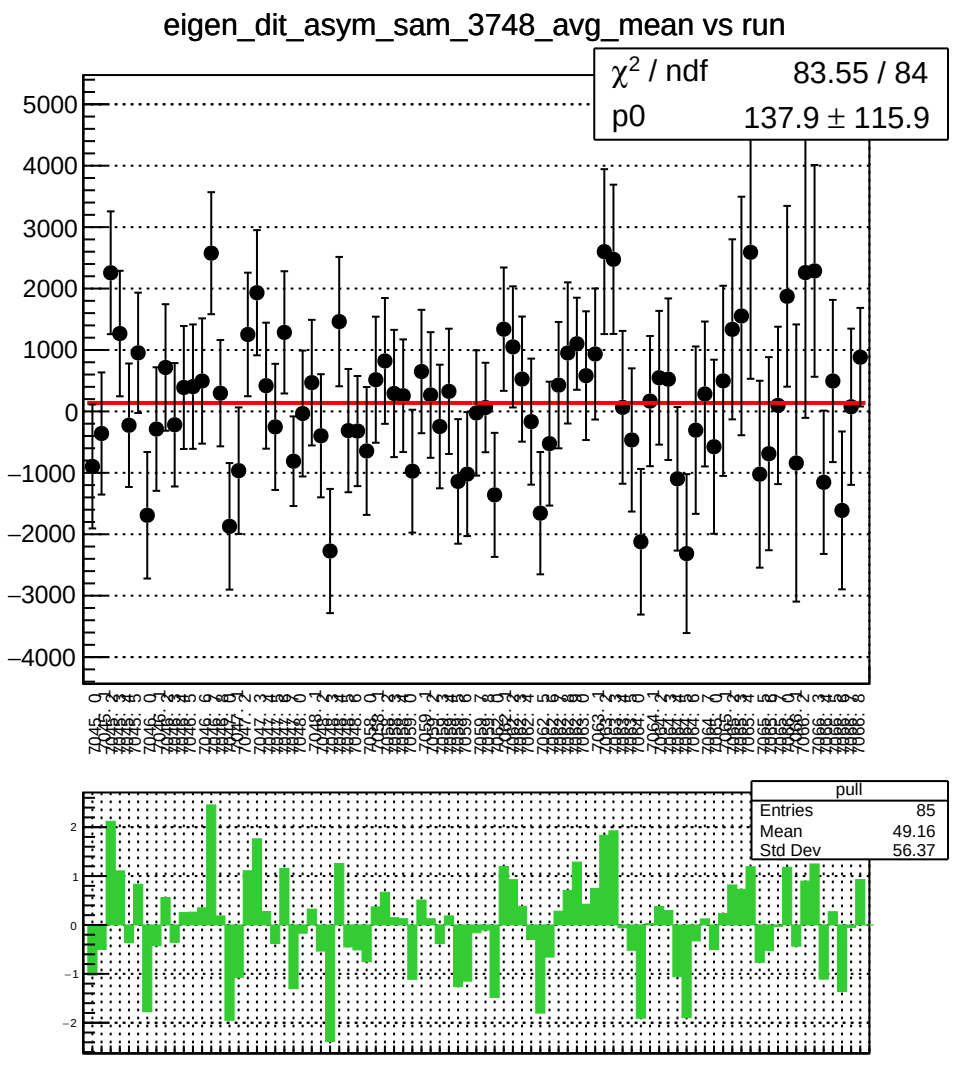

pull1D
Entries 85
Mean 0.01511
Std Dev 0.9913

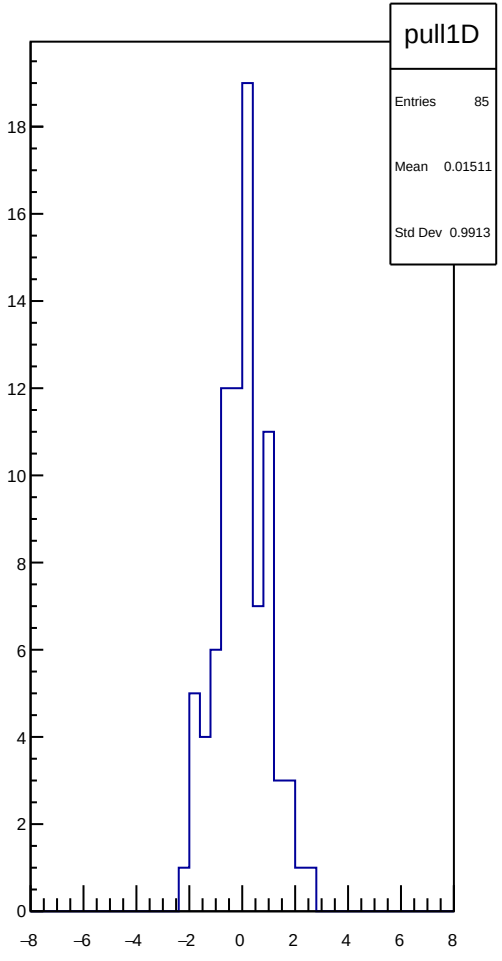

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4.572e+04 / 84
p0 103.7 ± 0.08197
220
200
180
160
140
120
100
80

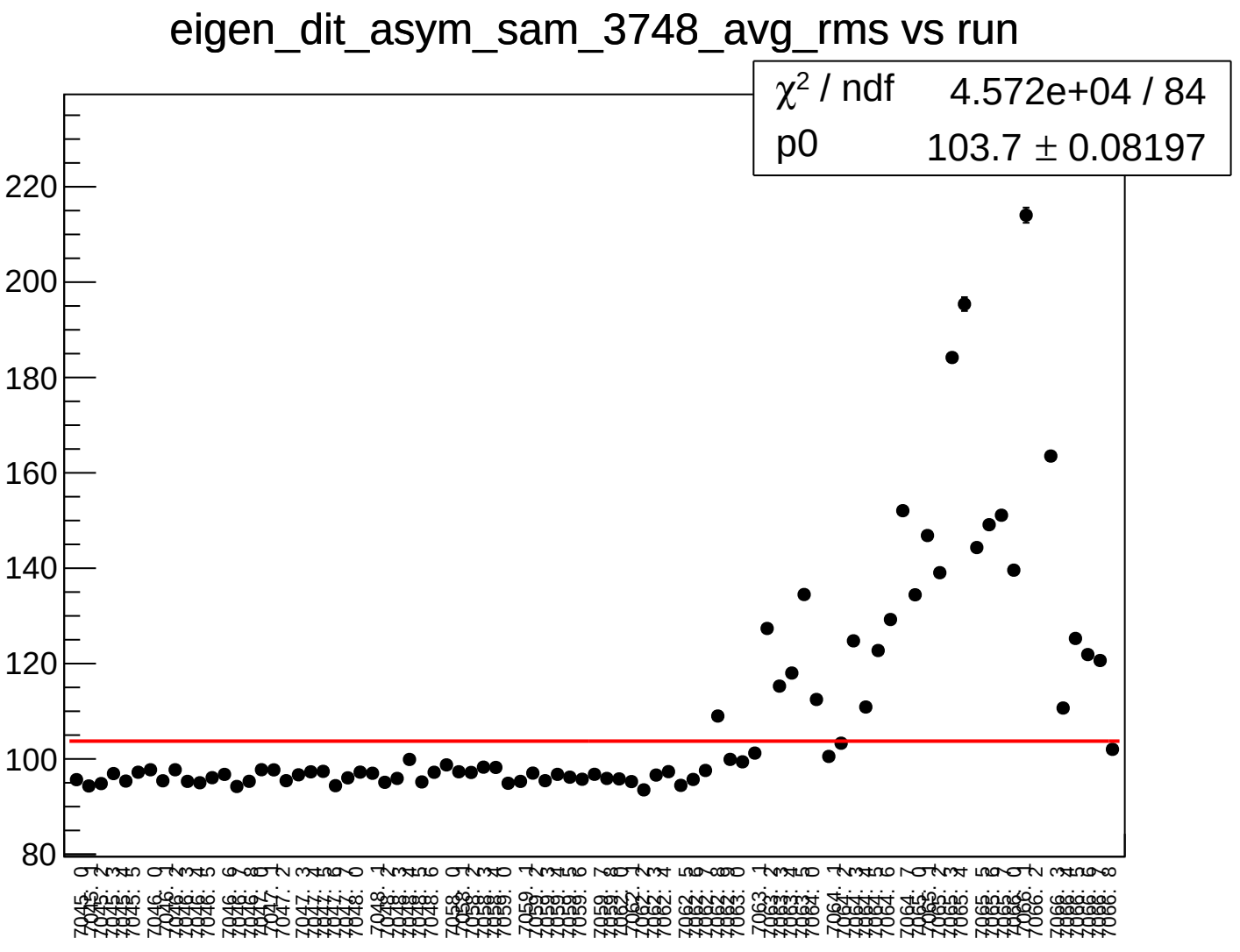

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 72.28 / 84
p0 −1686 ± 970.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −471.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

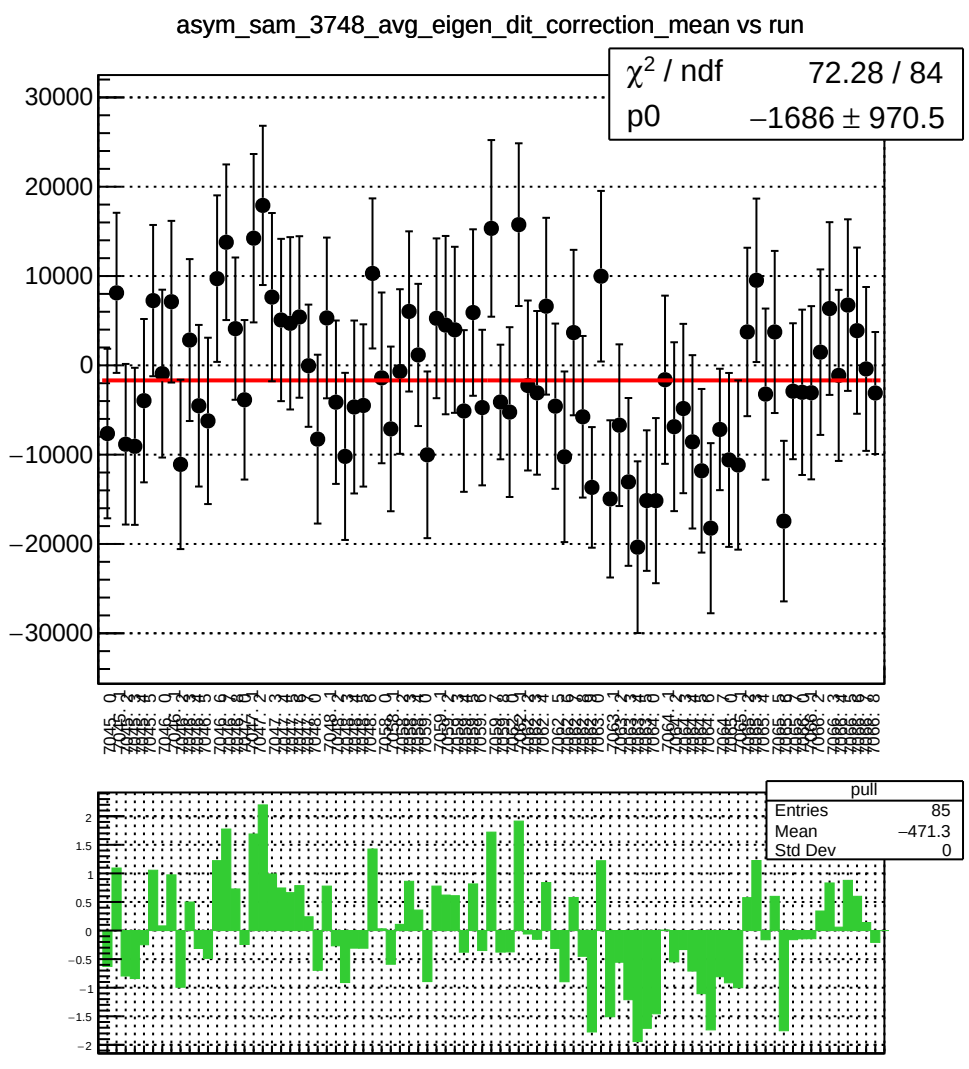

pull1D
Entries 85
Mean 0.01077
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

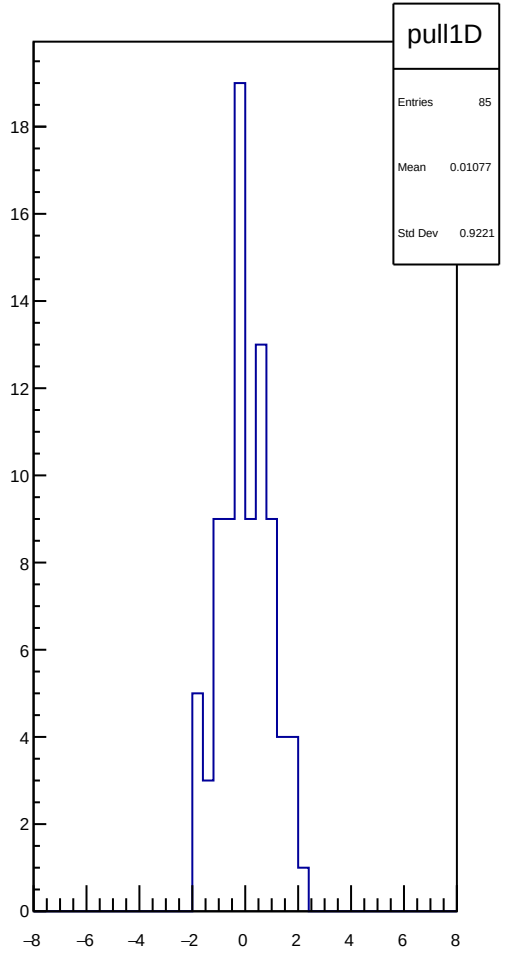

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1459 / 84
p0 880.3 ± 0.6862
960
940
920
900
880
860
840
820

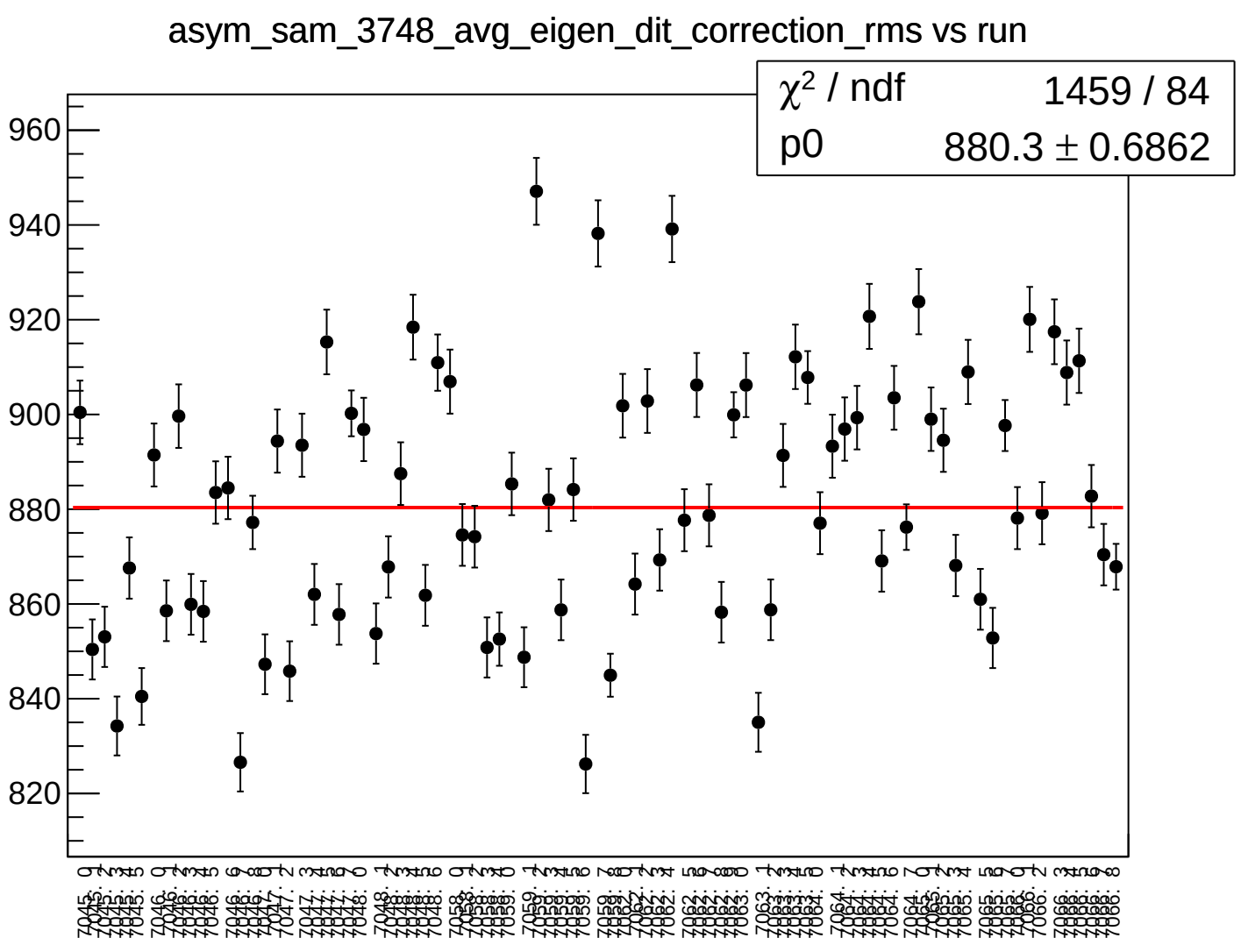

eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 83.55 / 84
p0 137.9 ± 115.9
pull
Entries 85
Mean 49.16
Std Dev 56.37

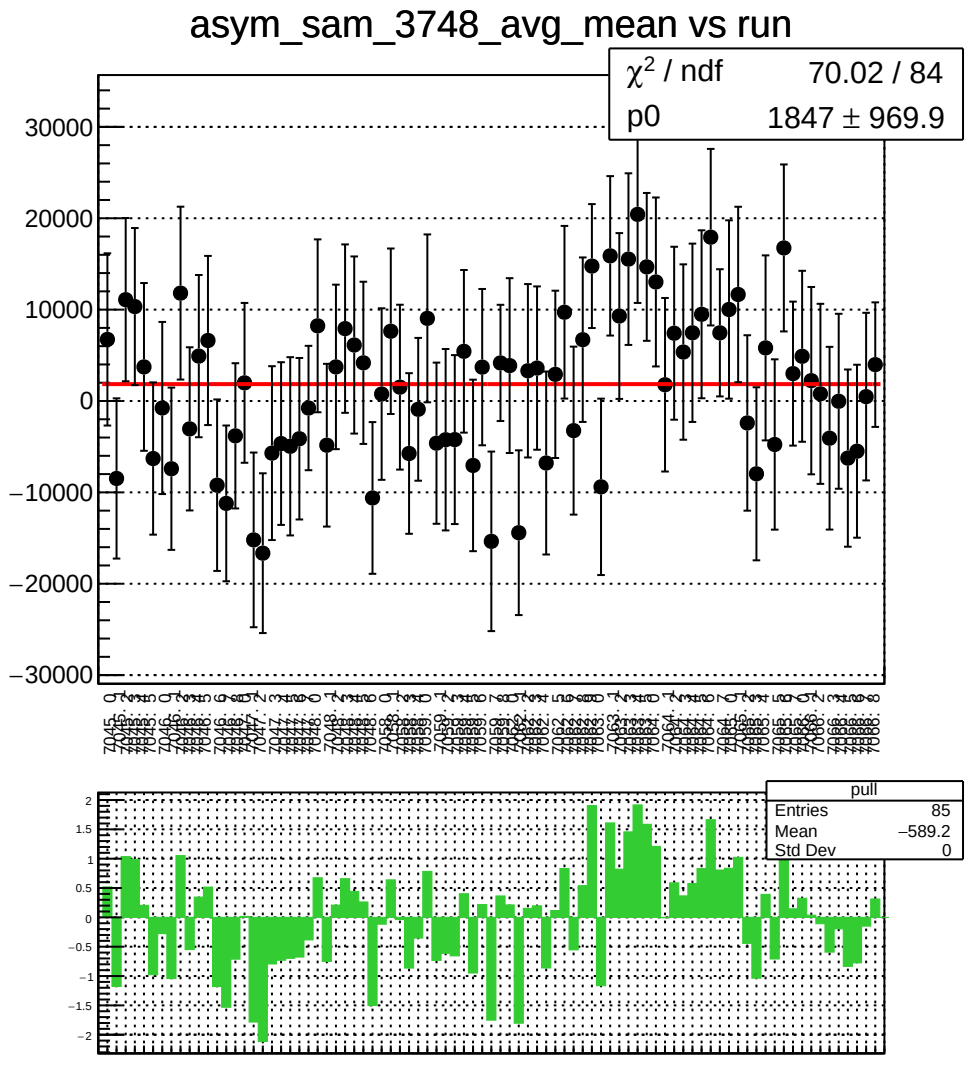

pull1D
Entries 85
Mean 0.01511
Std Dev 0.9913

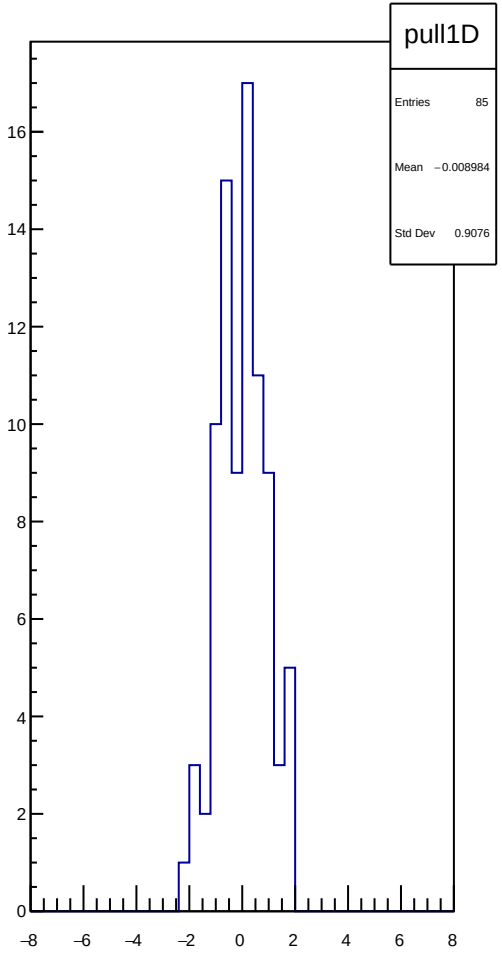

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4.572e+04 / 84
p0 103.7 ± 0.08197
220
200
180
160
140
120
100
80

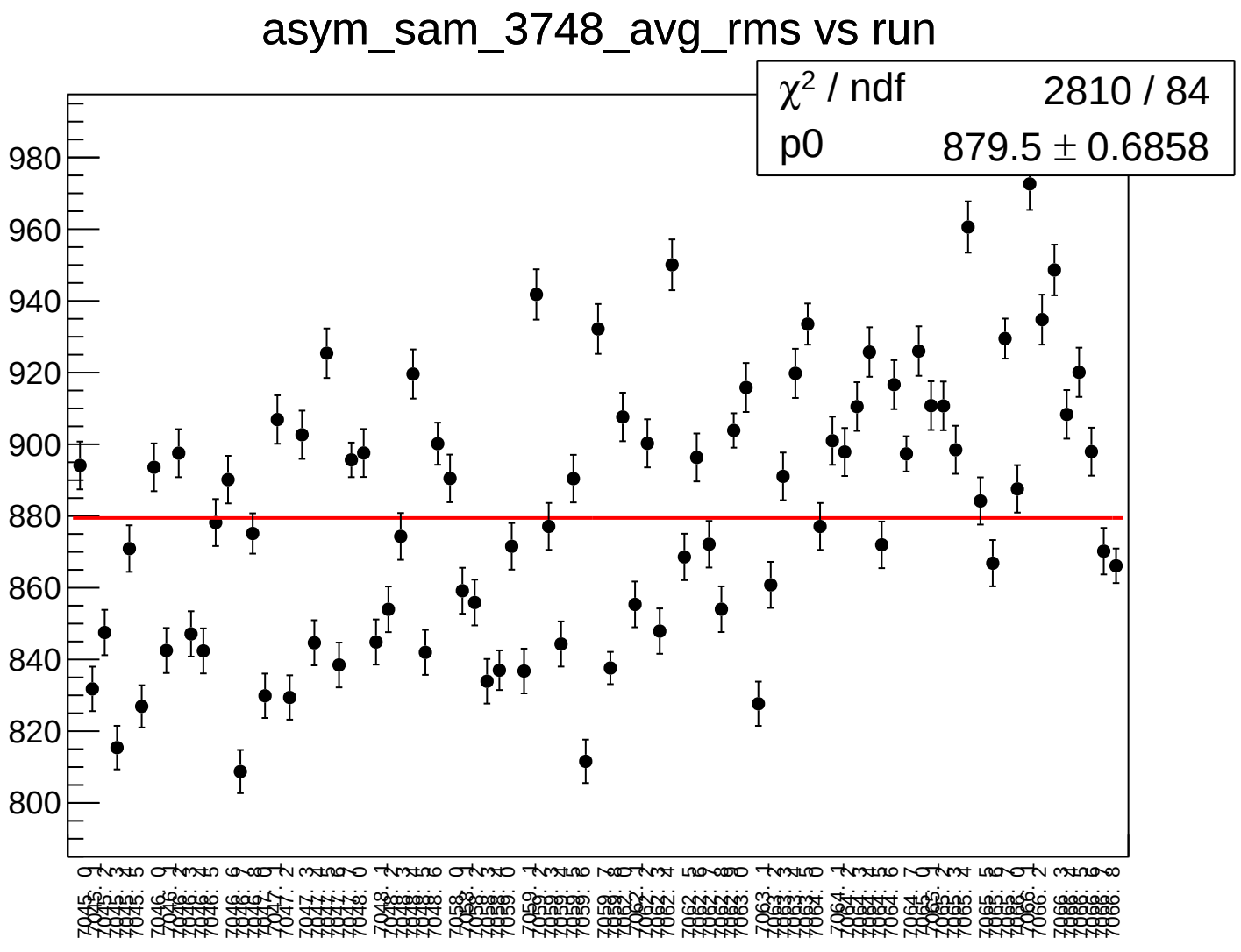

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.28 / 84
p0 −1686 ± 970.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −471.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

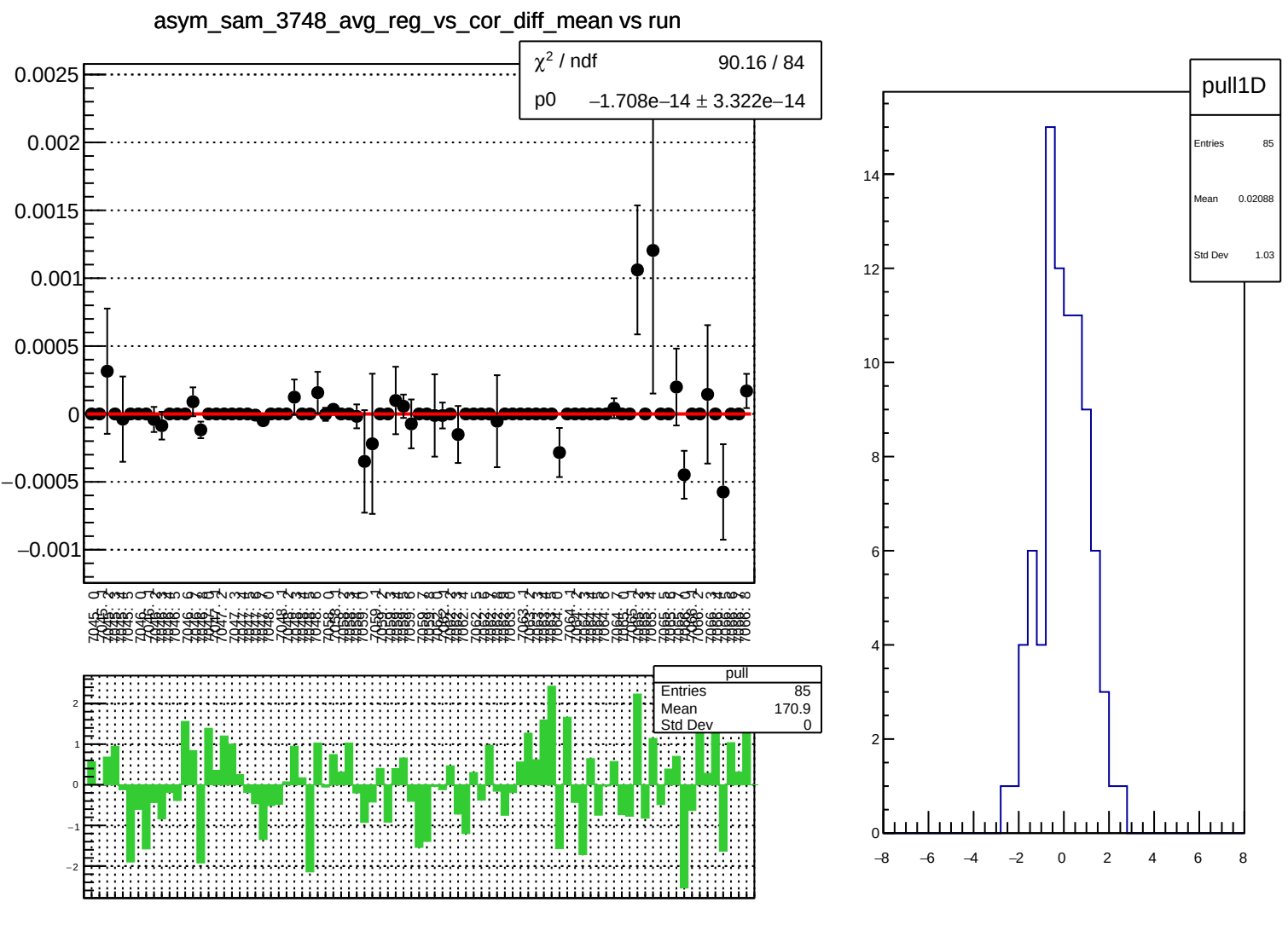

pull1D
Entries 85
Mean 0.01077
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

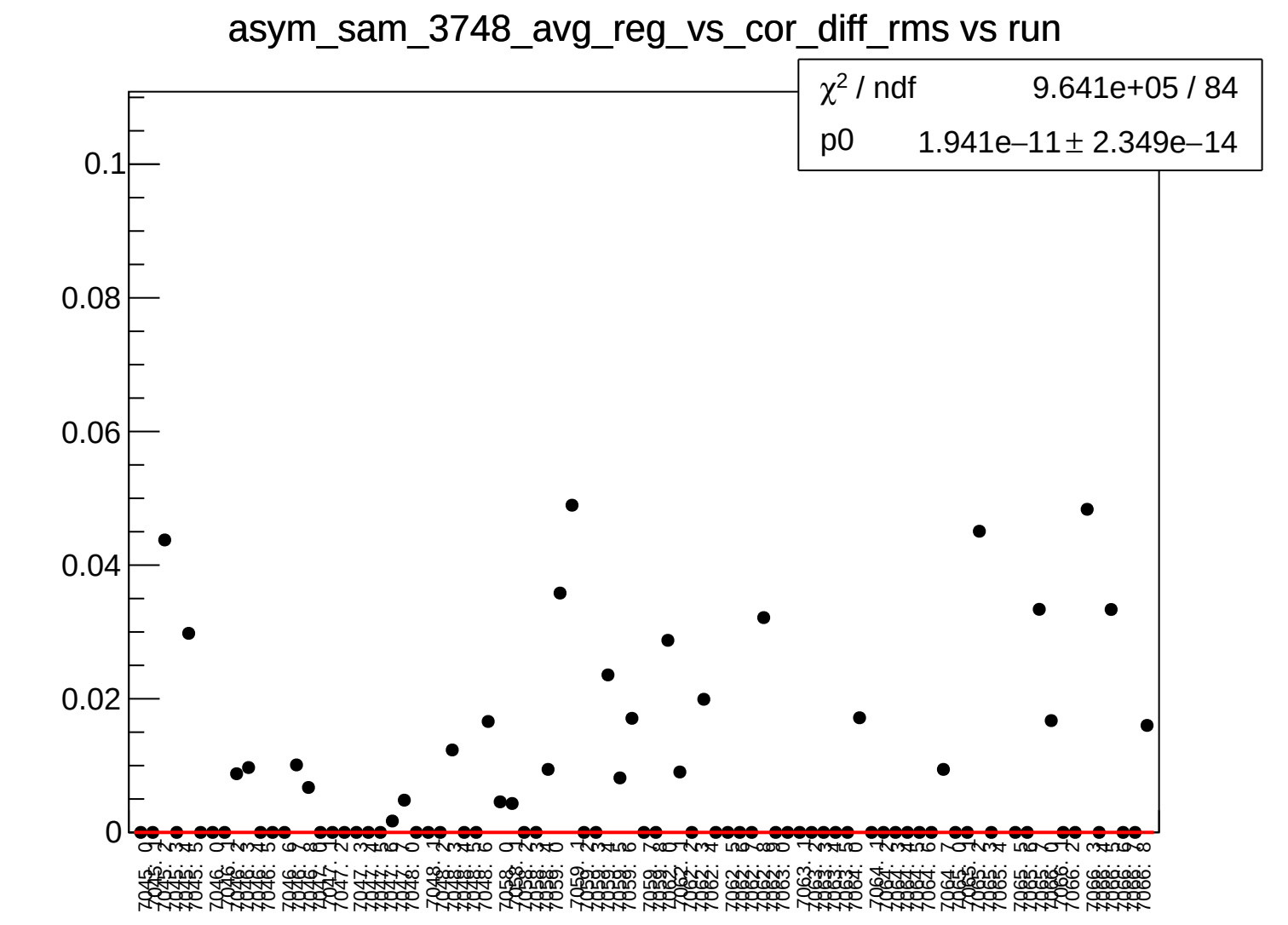

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1459 / 84
p0 880.3 ± 0.6862
960
940
920
900
880
860
840
820

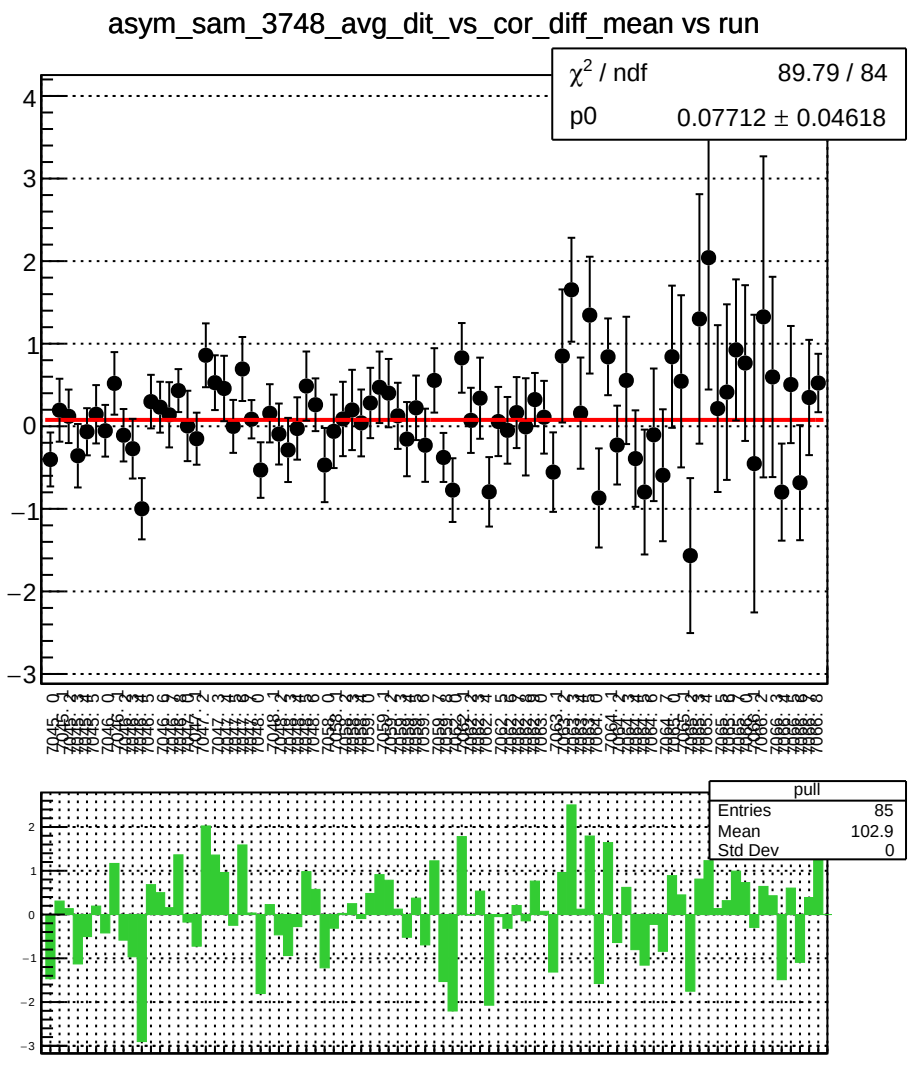

asym_sam_3748_avg_mean vs run
χ² / ndf 70.02 / 84
p0 1847 ± 969.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −589.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

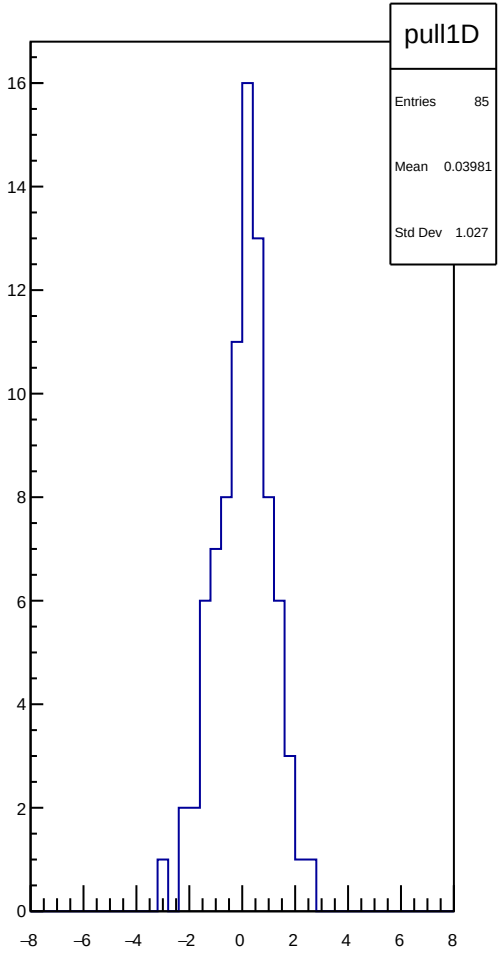

pull1D
Entries 85
Mean −0.008984
Std Dev 0.9076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

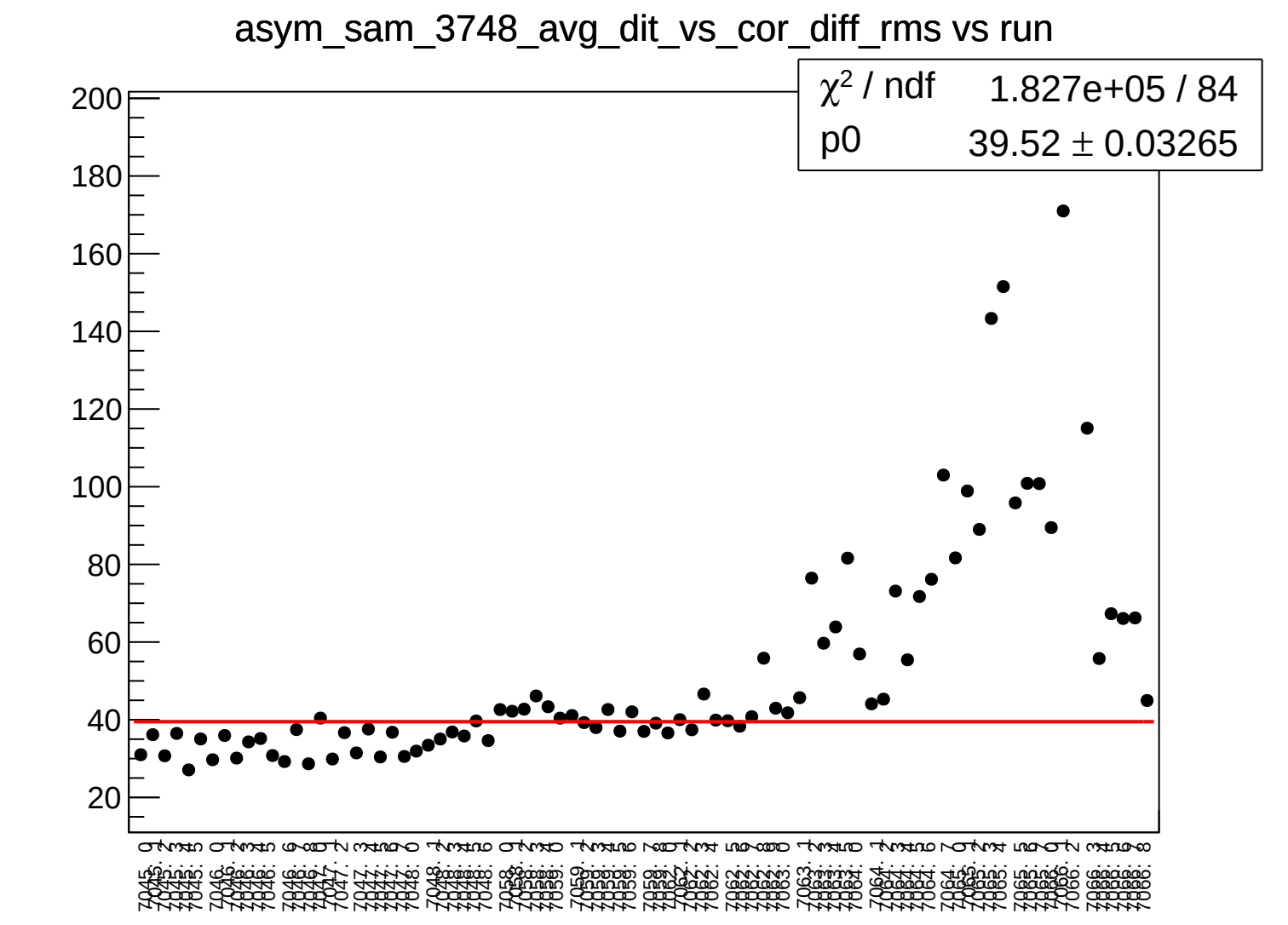

asym_sam_3748_avg_rms vs run
χ^2 / ndf 2810 / 84
p0 879.5 ± 0.6858
980
960
940
920
900
880
860
840
820
800

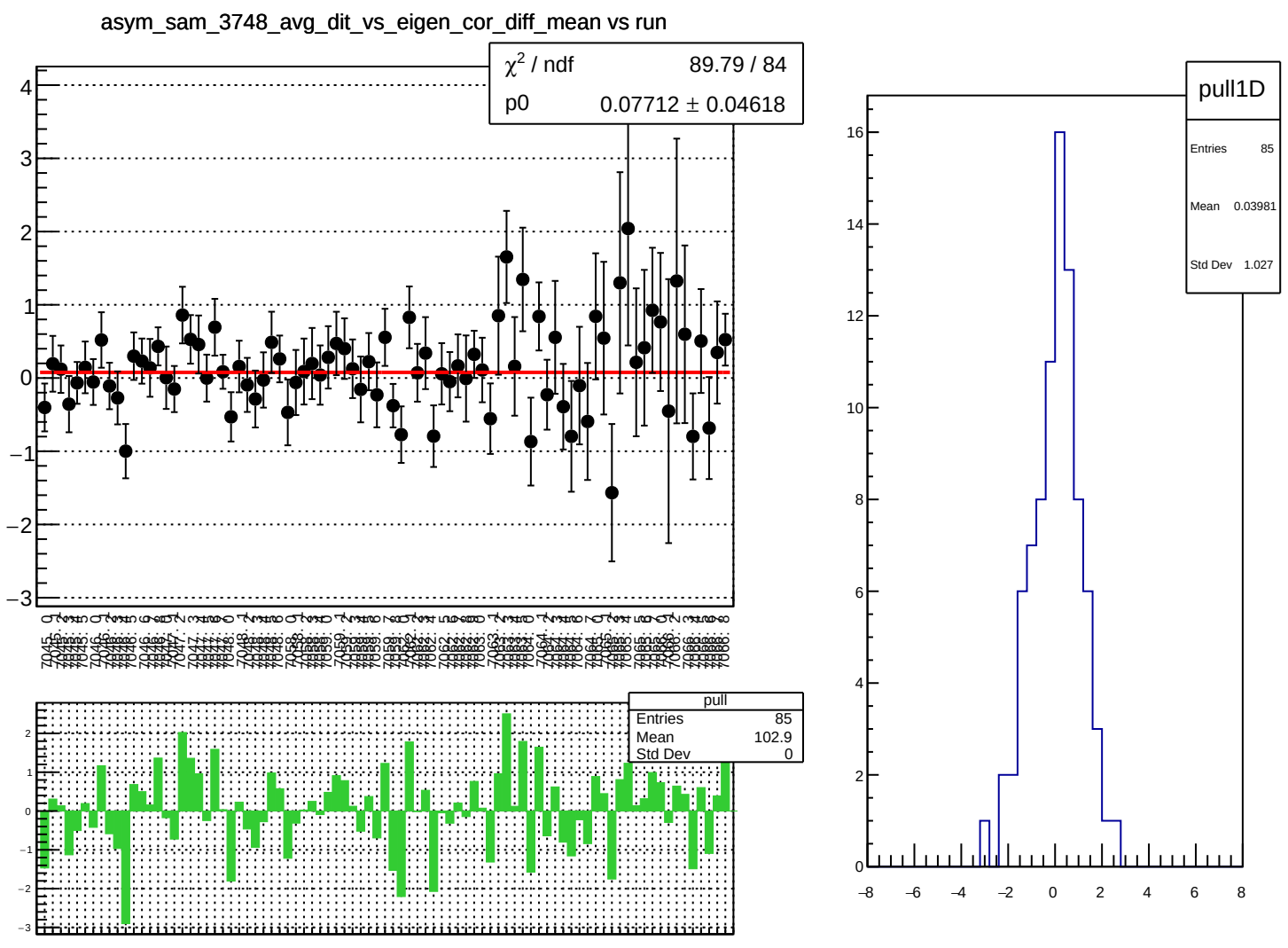

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.16 / 84
p0 −1.708e−14 ± 3.322e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 170.9
Std Dev 0
pull1D
Entries 85
Mean 0.02088
Std Dev 1.03

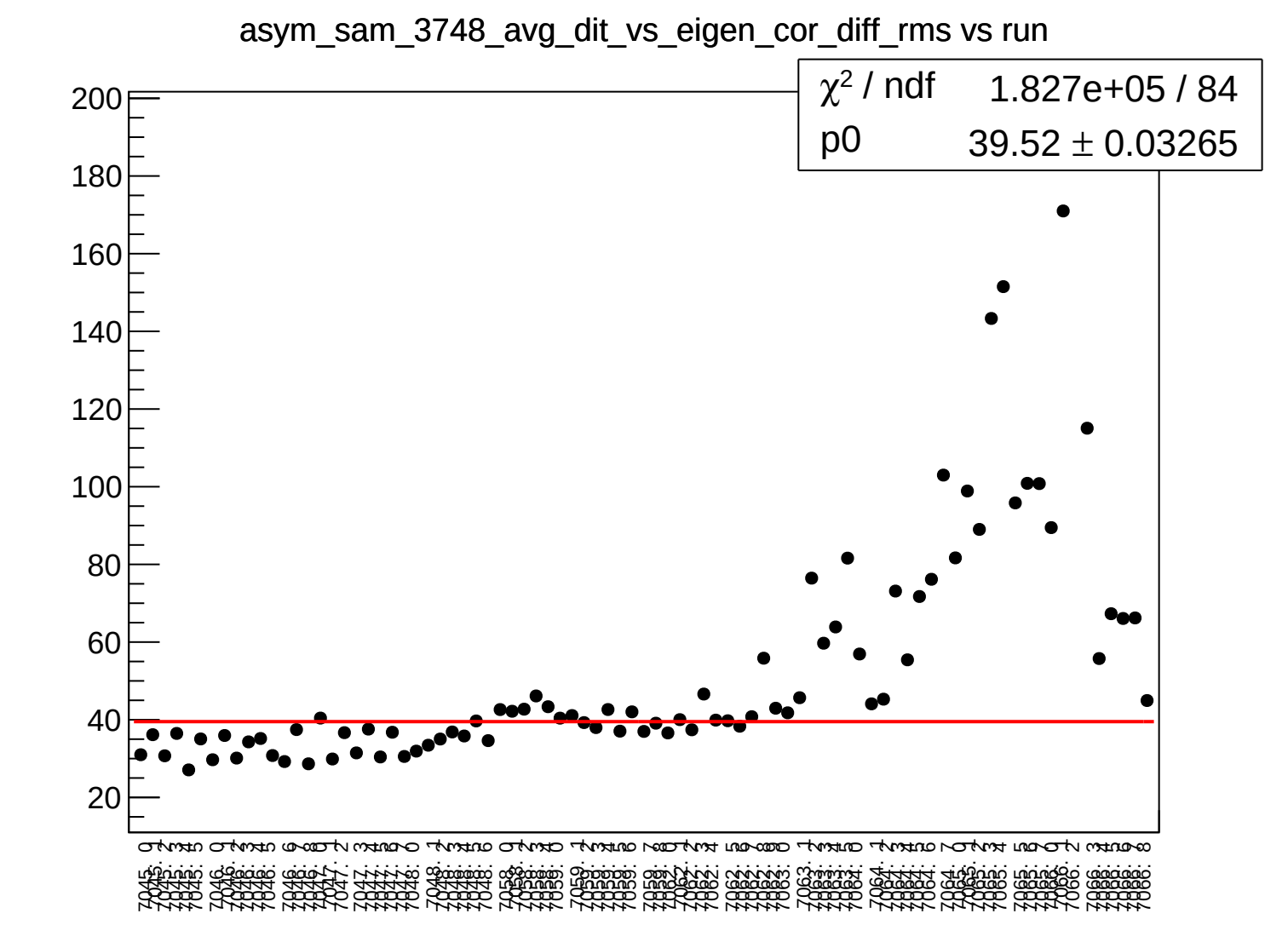

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.641e+05 / 84
p0 1.941e−11 ± 2.349e−14
0.1
0.08
0.06
0.04
0.02
0

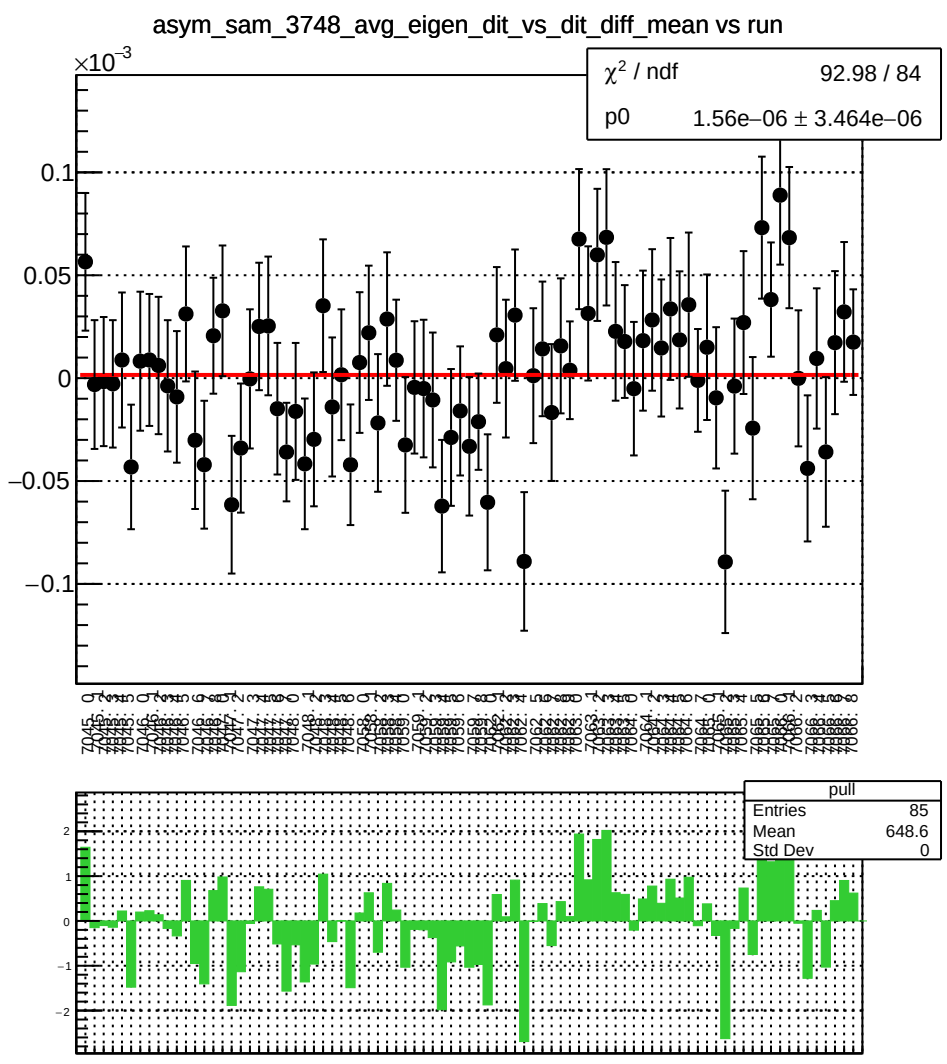

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.79 / 84
p0 0.07712 ± 0.04618
pull
Entries 85
Mean 102.9
Std Dev 0

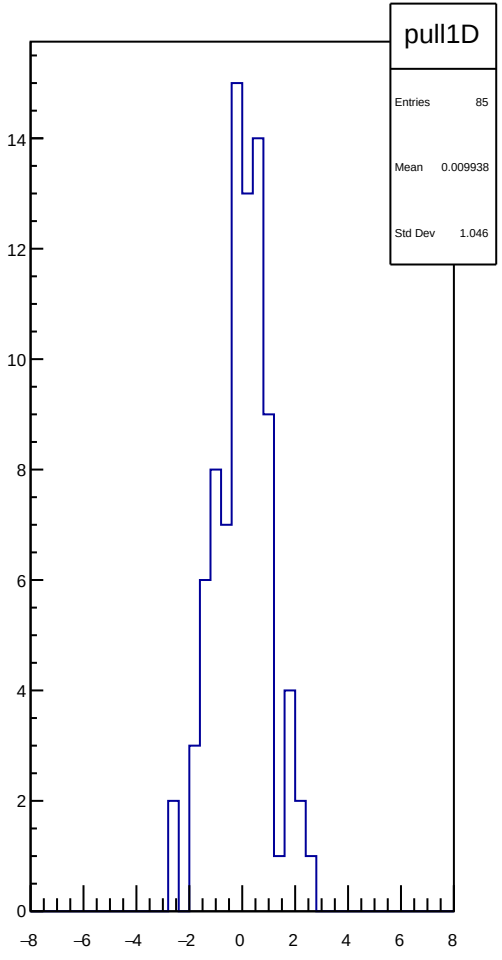

pull1D
Entries 85
Mean 0.03981
Std Dev 1.027

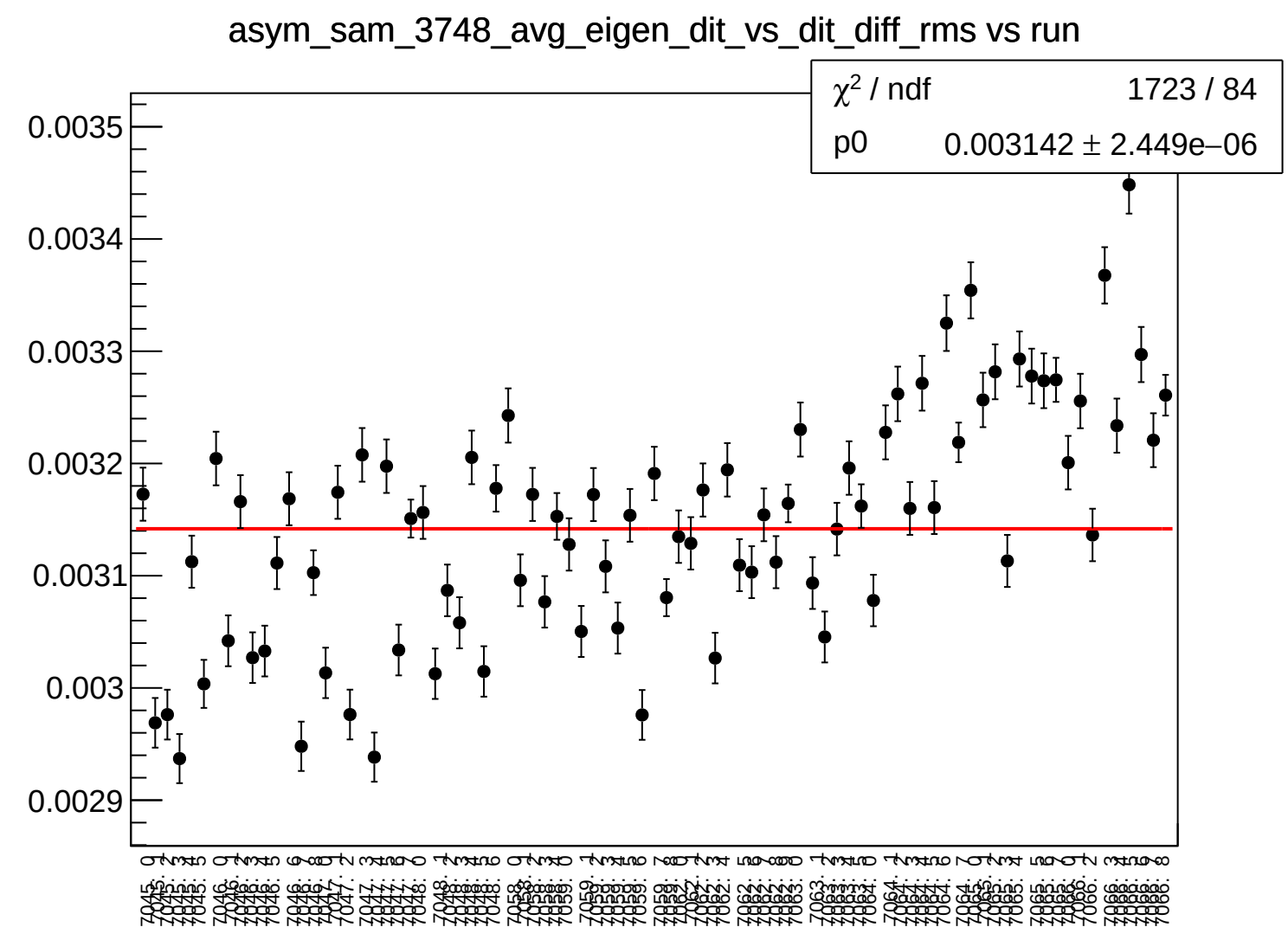

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.827e+05 / 84
p0 39.52 ± 0.03265
200
180
160
140
120
100
80
60
40
20

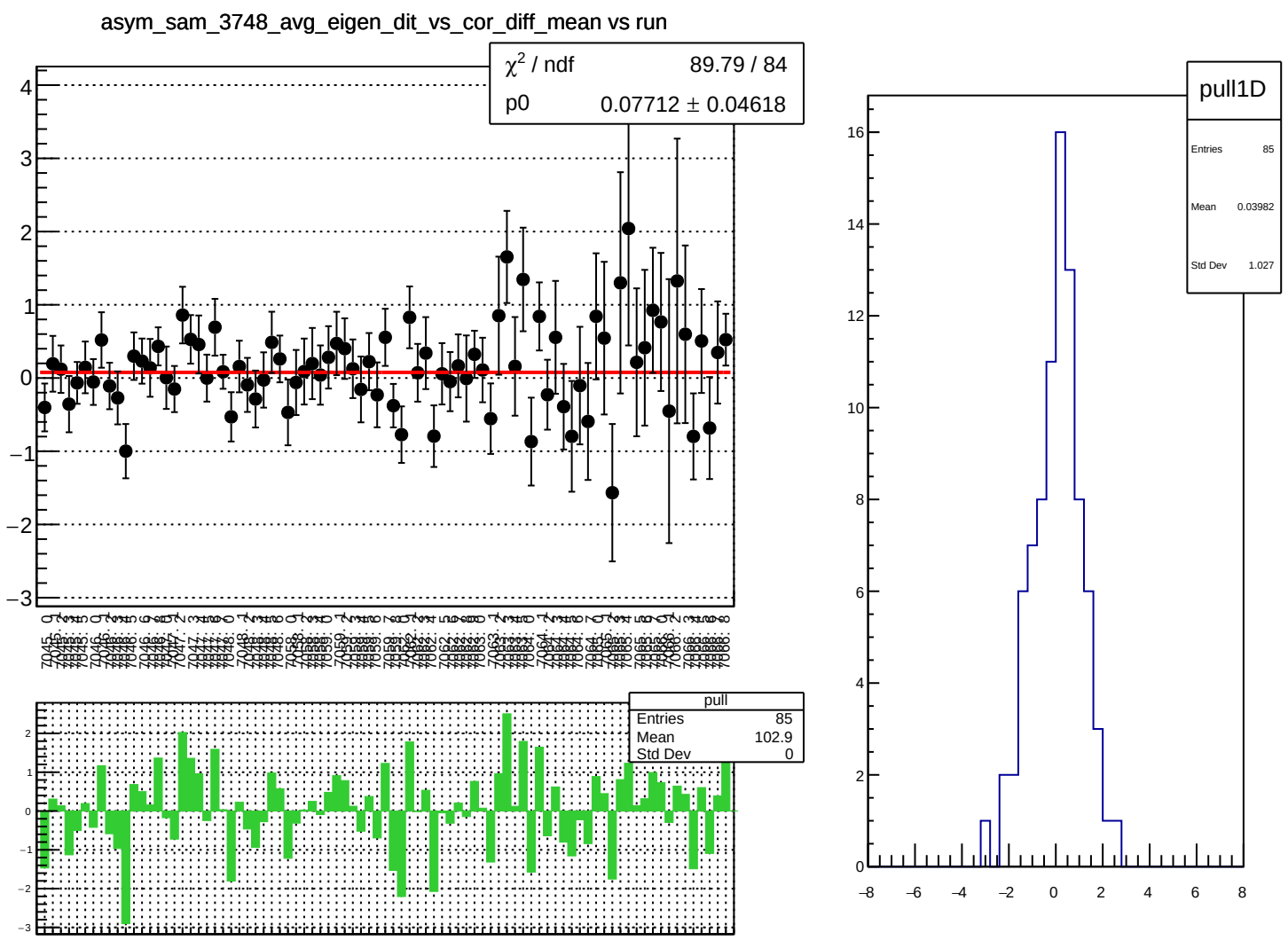

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.79 / 84
p0 0.07712 ± 0.04618
pull
Entries 85
Mean 102.9
Std Dev 0
pull1D
Entries 85
Mean 0.03981
Std Dev 1.027

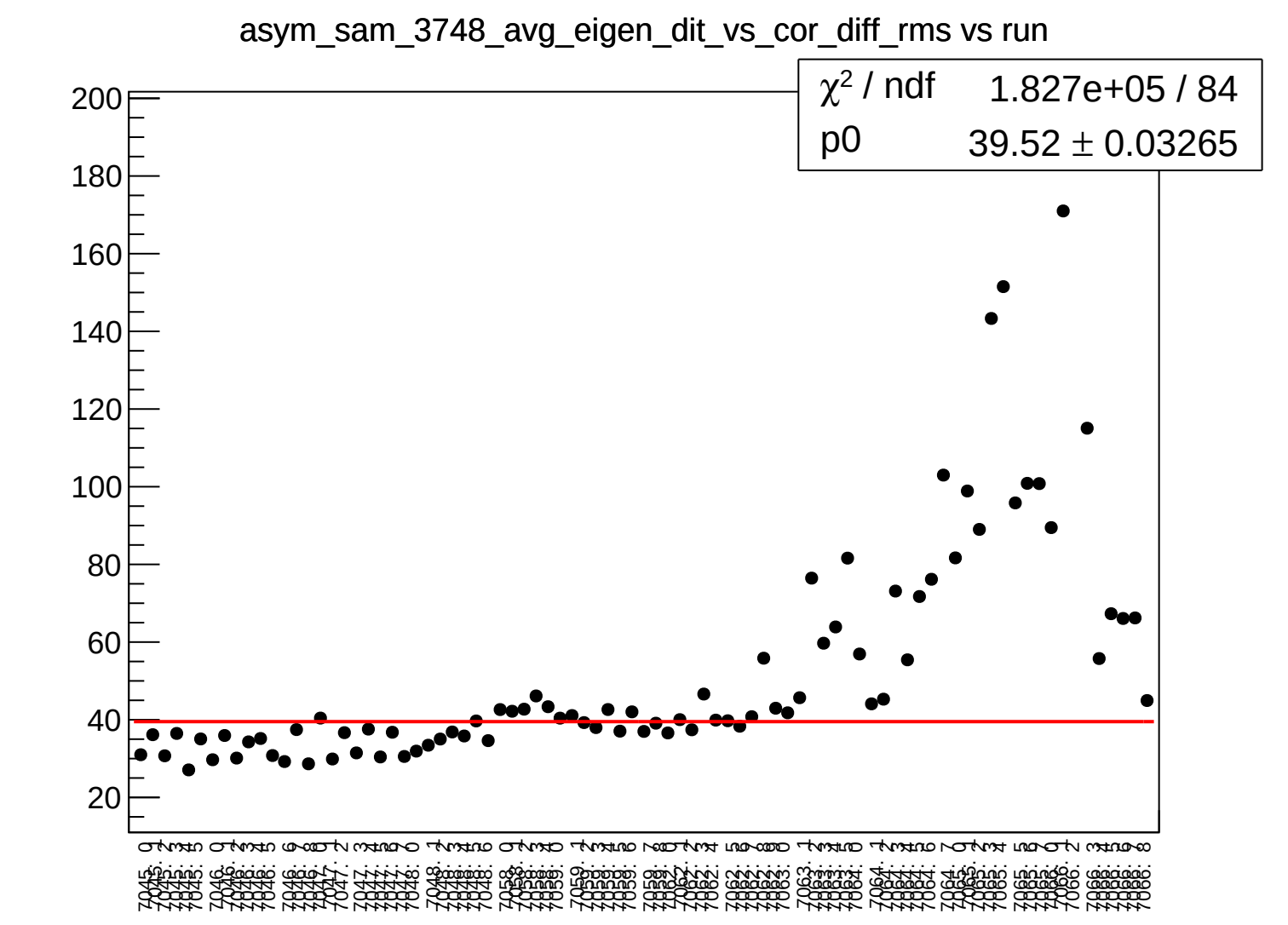

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.827e+05 / 84
p0 39.52 ± 0.03265
200
180
160
140
120
100
80
60
40
20


asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.98 / 84
p0 1.56e−06 ± 3.464e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 648.6
Std Dev 0
2
1
0
−1
−2

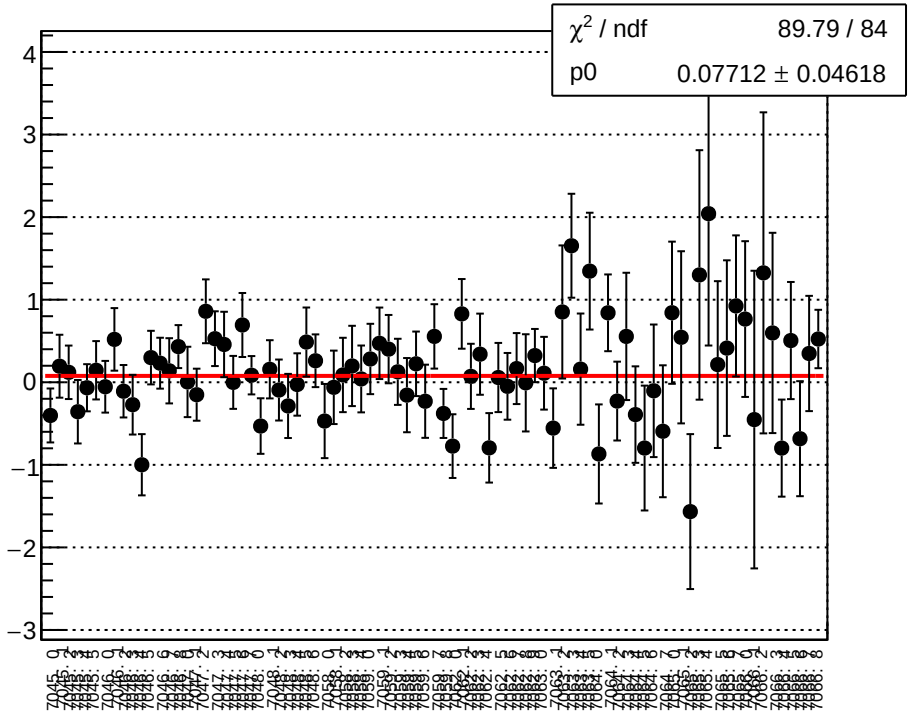

pull1D
Entries 85
Mean 0.009938
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

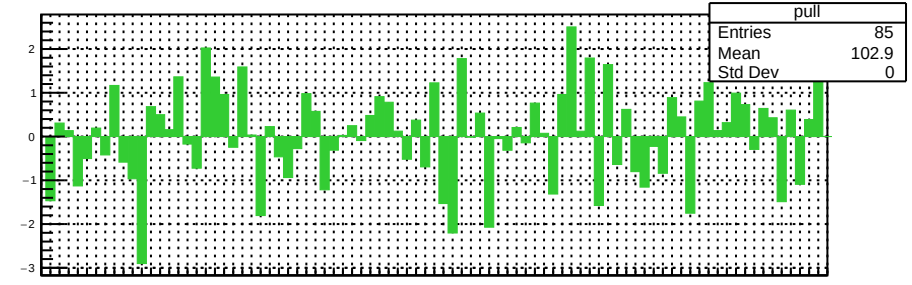

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1723 / 84
p0 0.003142 ± 2.449e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

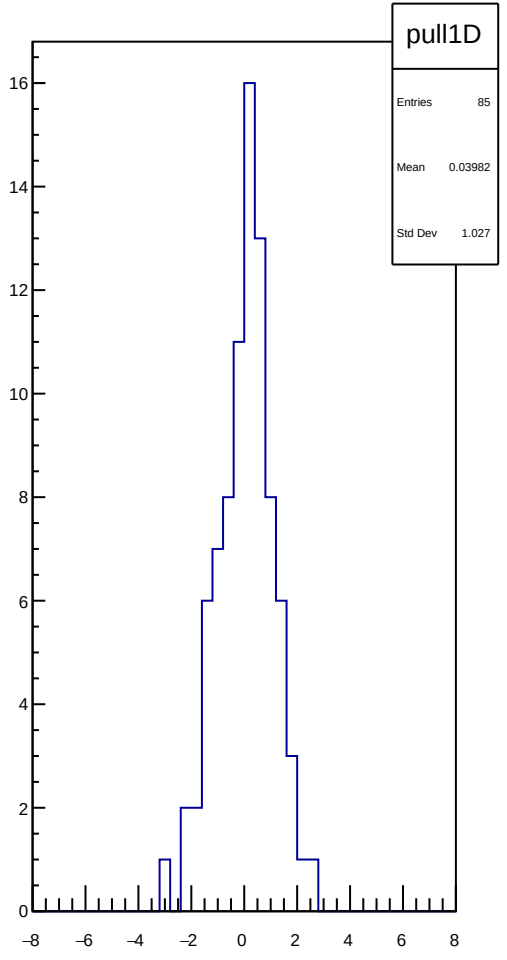

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.79 / 84
p0 0.07712 ± 0.04618
pull
Entries 85
Mean 102.9
Std Dev 0
pull1D
Entries 85
Mean 0.03982
Std Dev 1.027

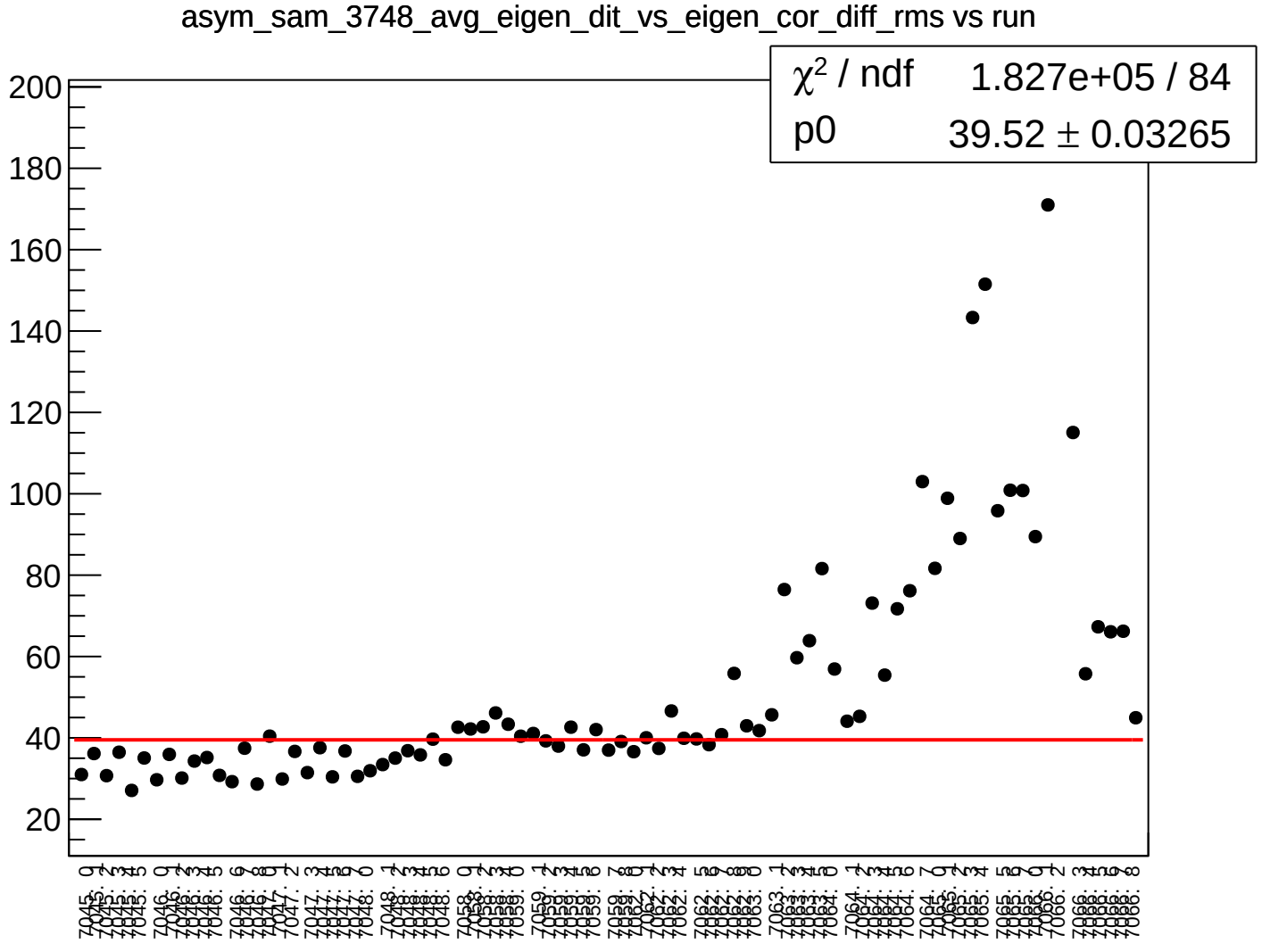

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.827e+05 / 84
p0 39.52 ± 0.03265
200
180
160
140
120
100
80
60
40
20

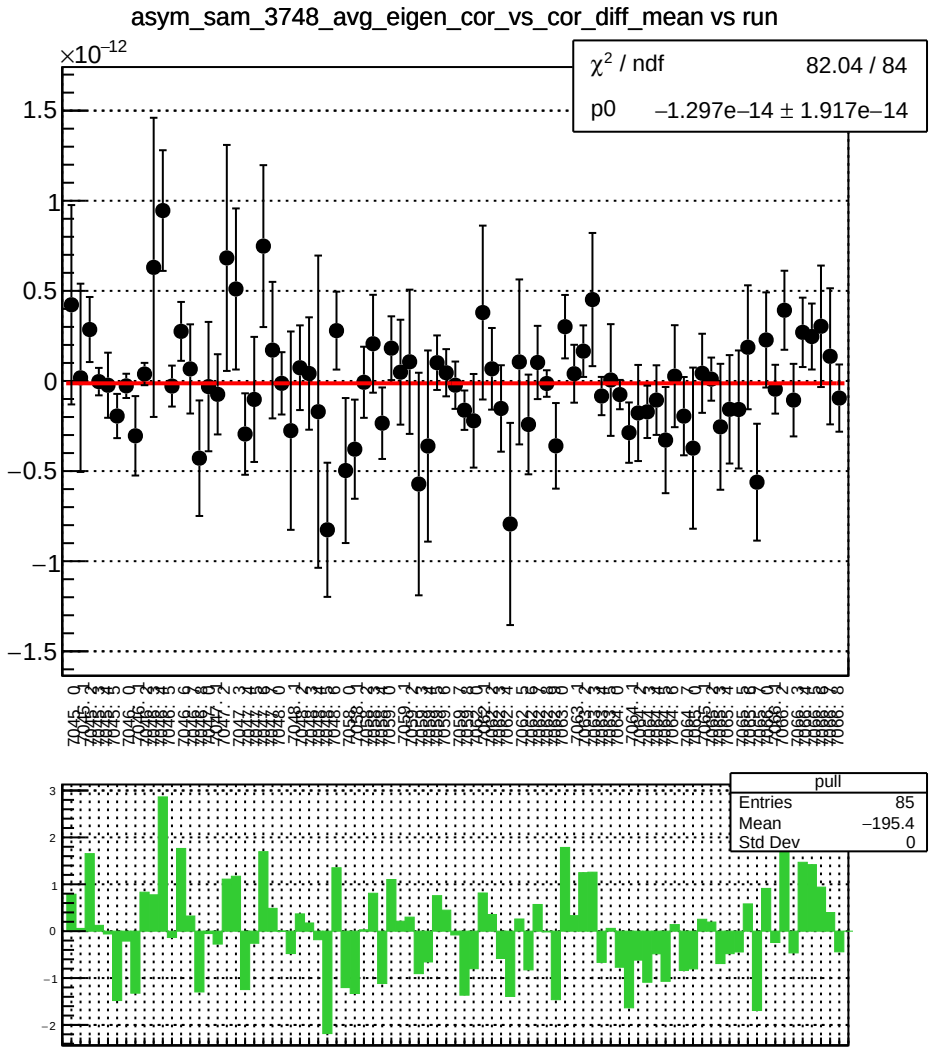
asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

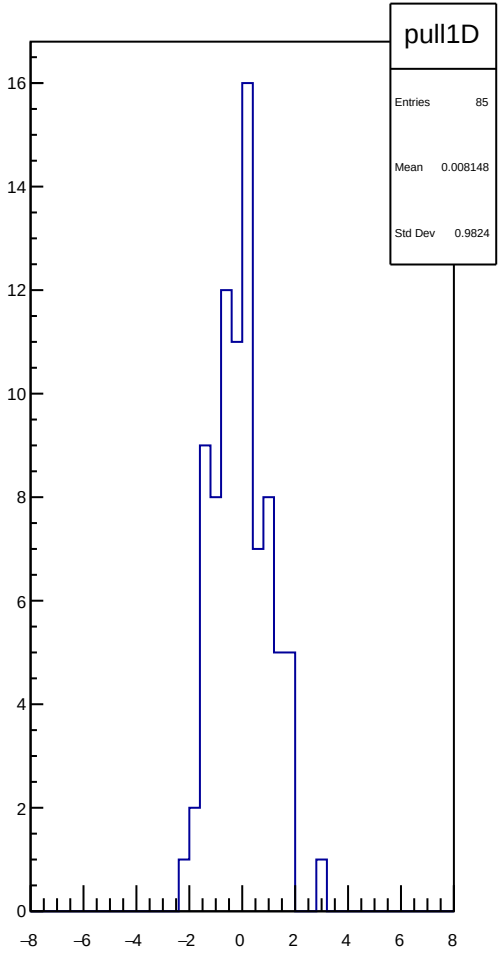


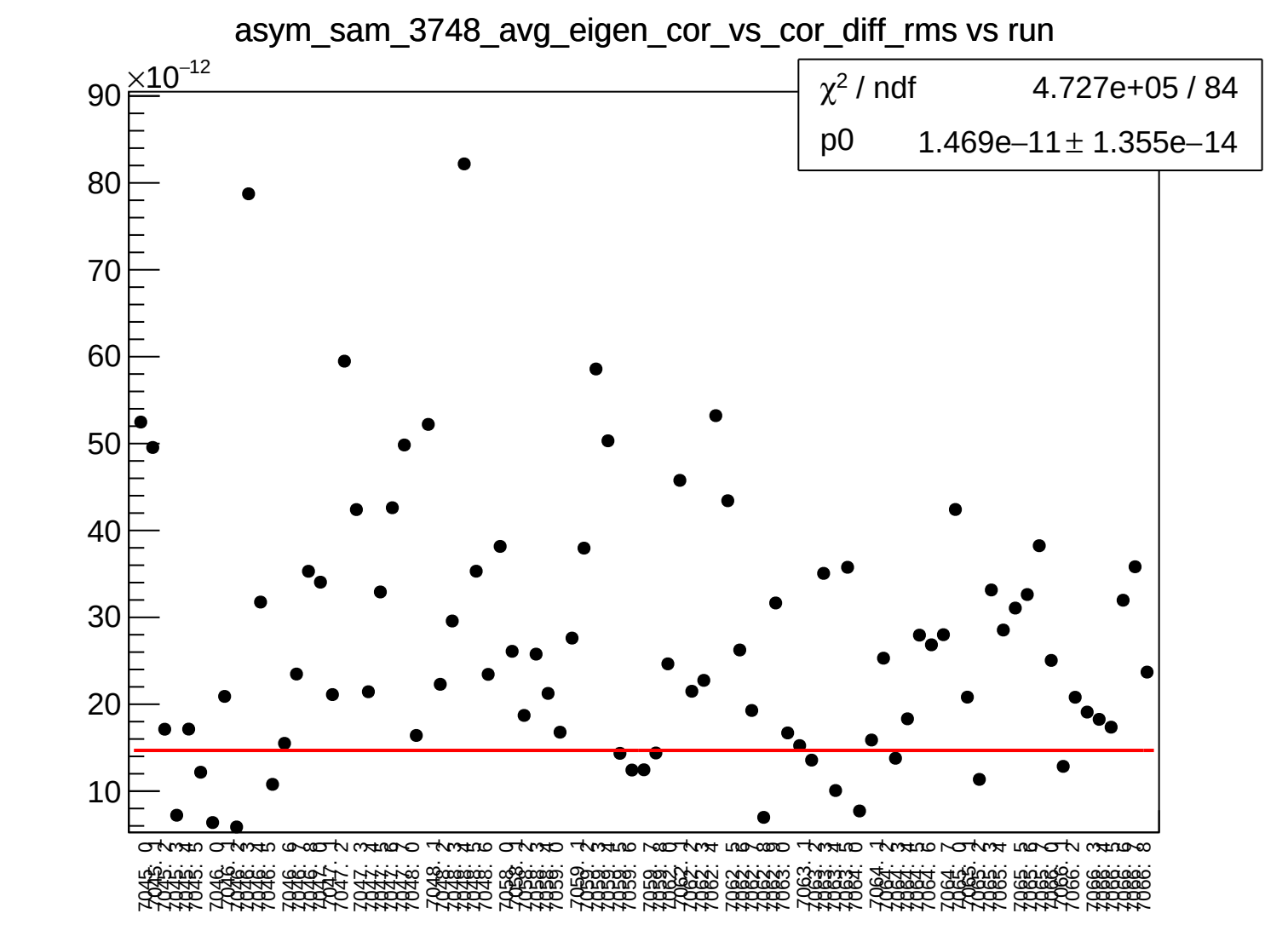


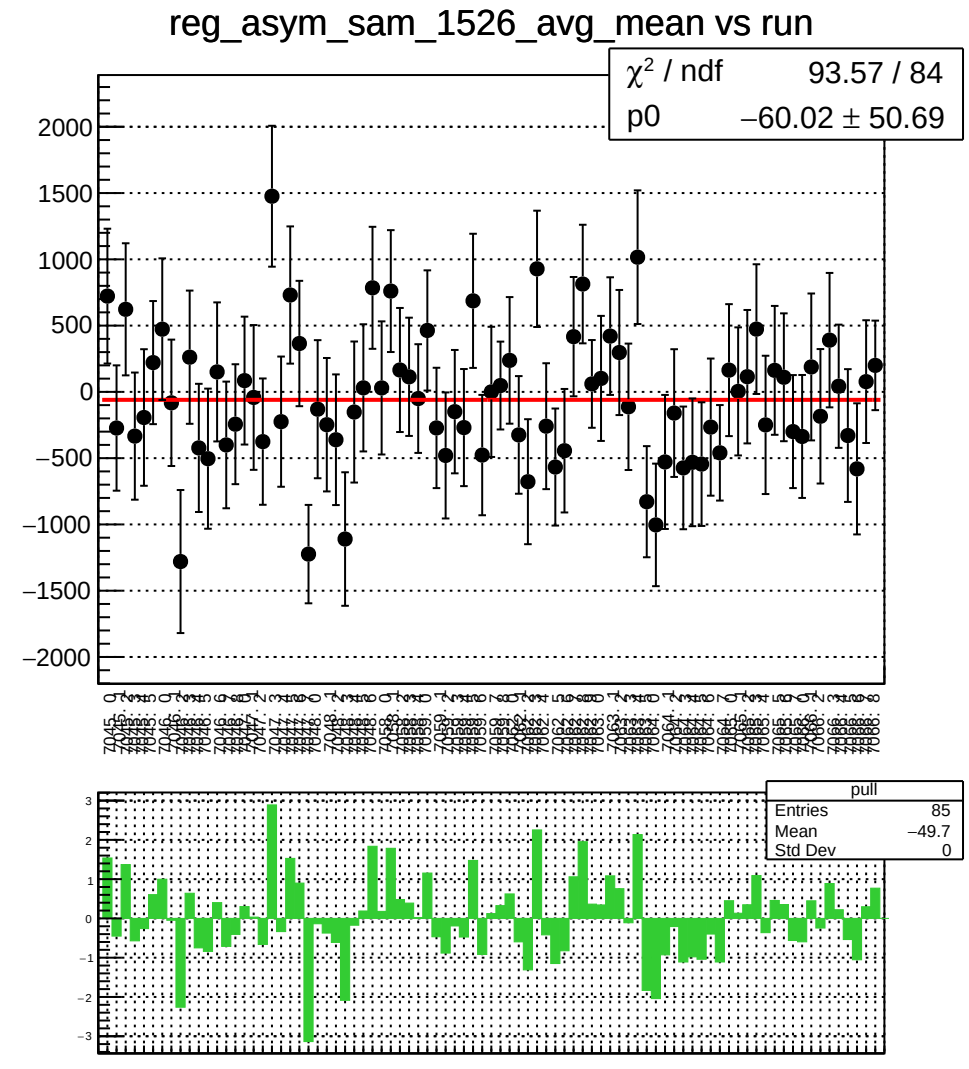


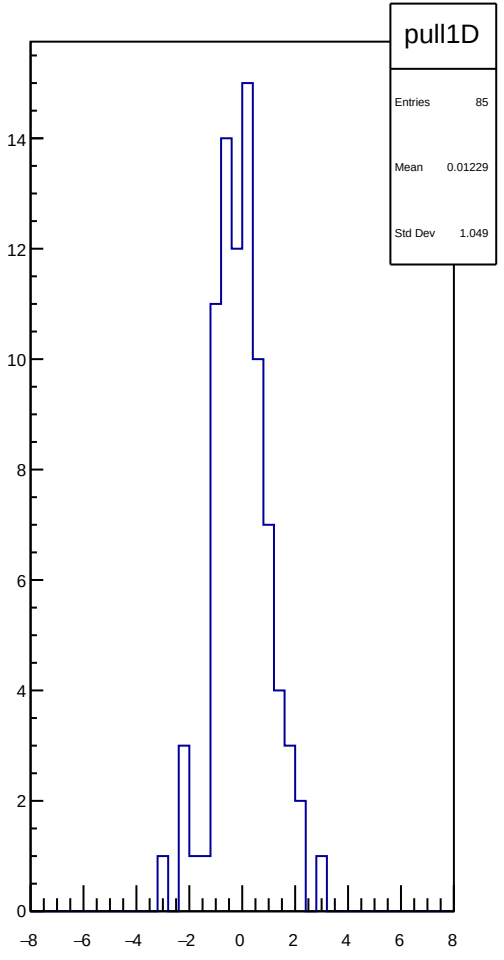

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.827e+05 / 84
p0 39.52 ± 0.03265
200
180
160
140
120
100
80
60
40
20

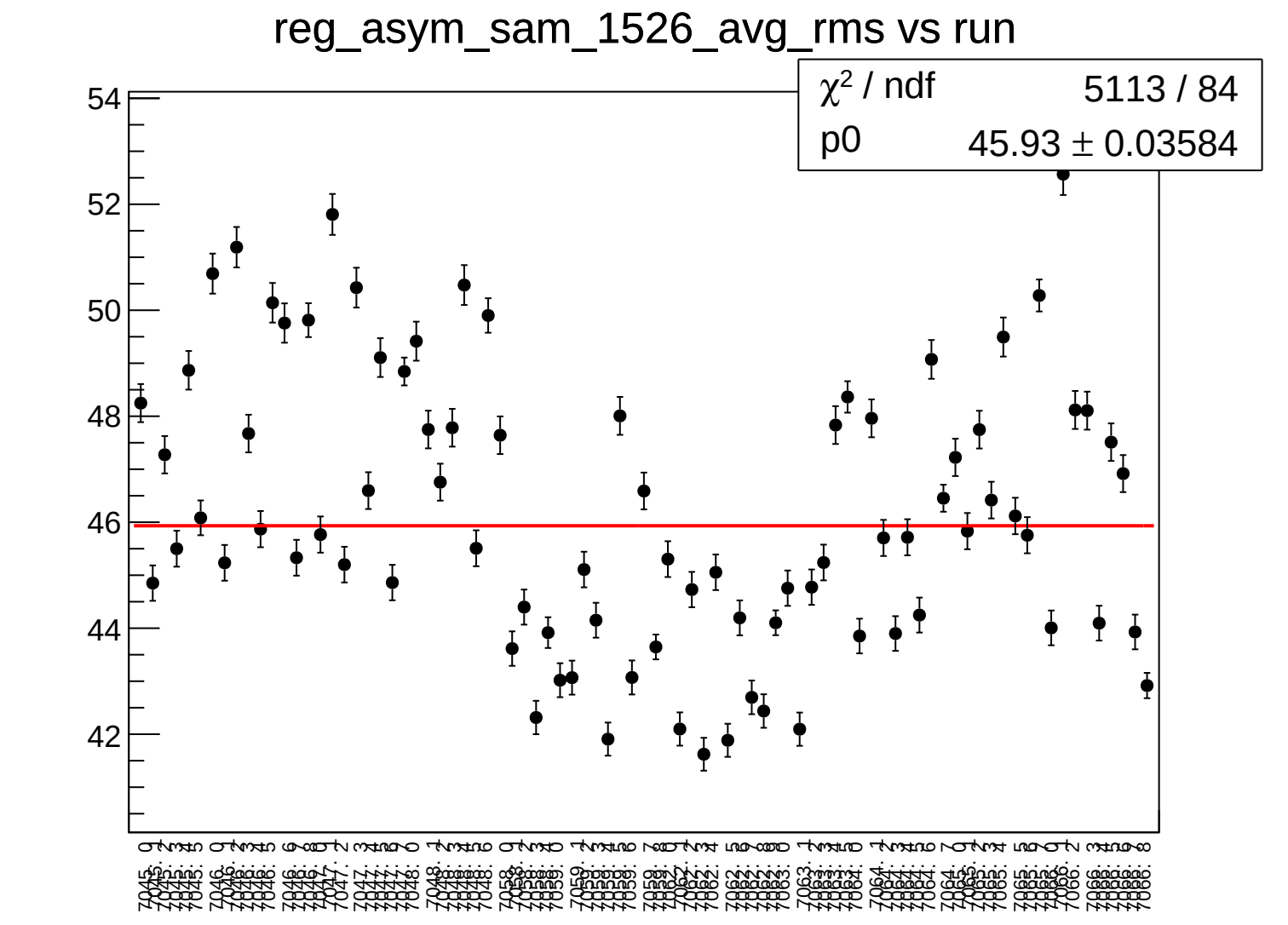

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.04 / 84
p0 −1.297e−14 ± 1.917e−14
pull
Entries 85
Mean −195.4
Std Dev 0

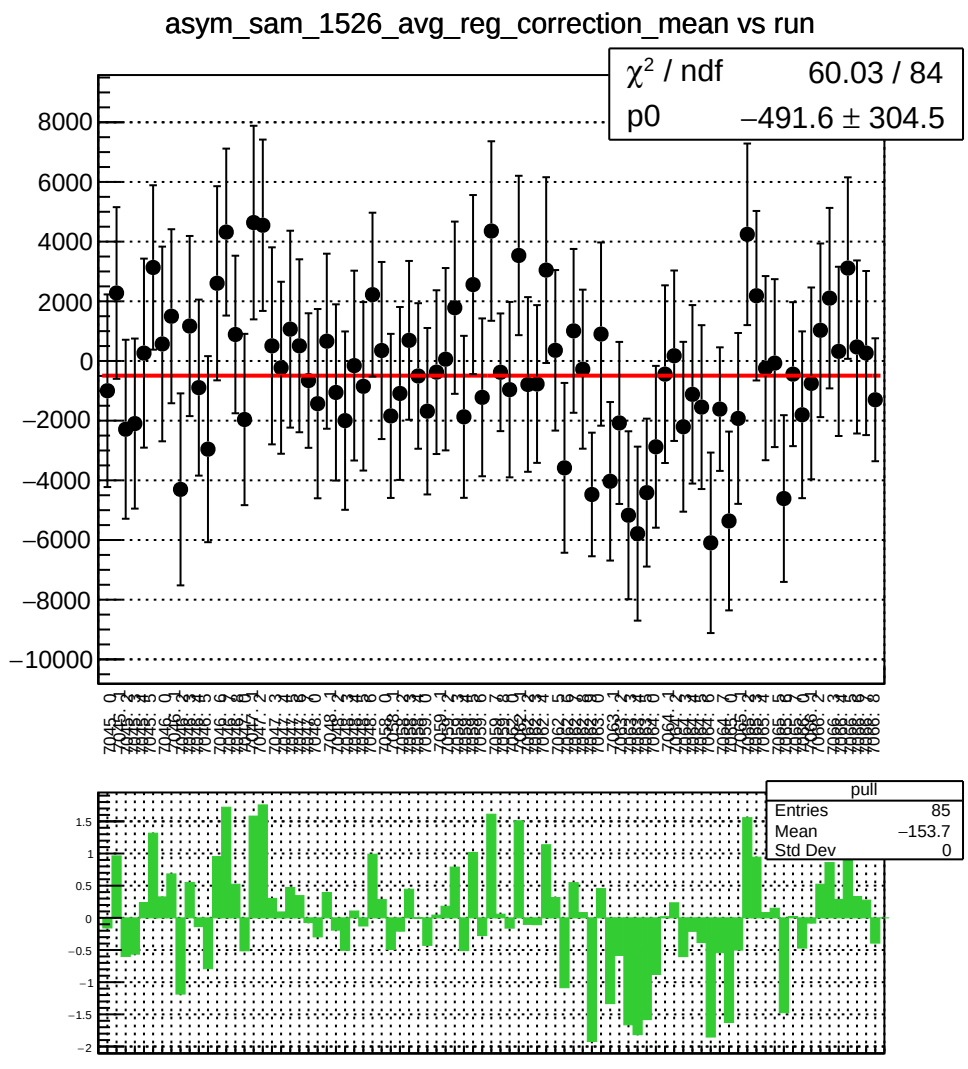

pull1D
Entries 85
Mean 0.008148
Std Dev 0.9824

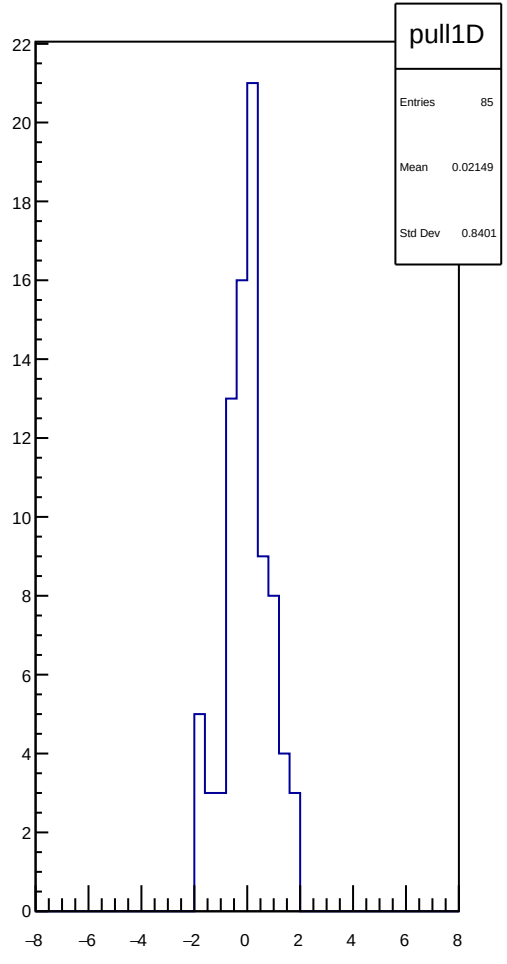

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 4.727e+05 / 84
p0 1.469e−11 ± 1.355e−14

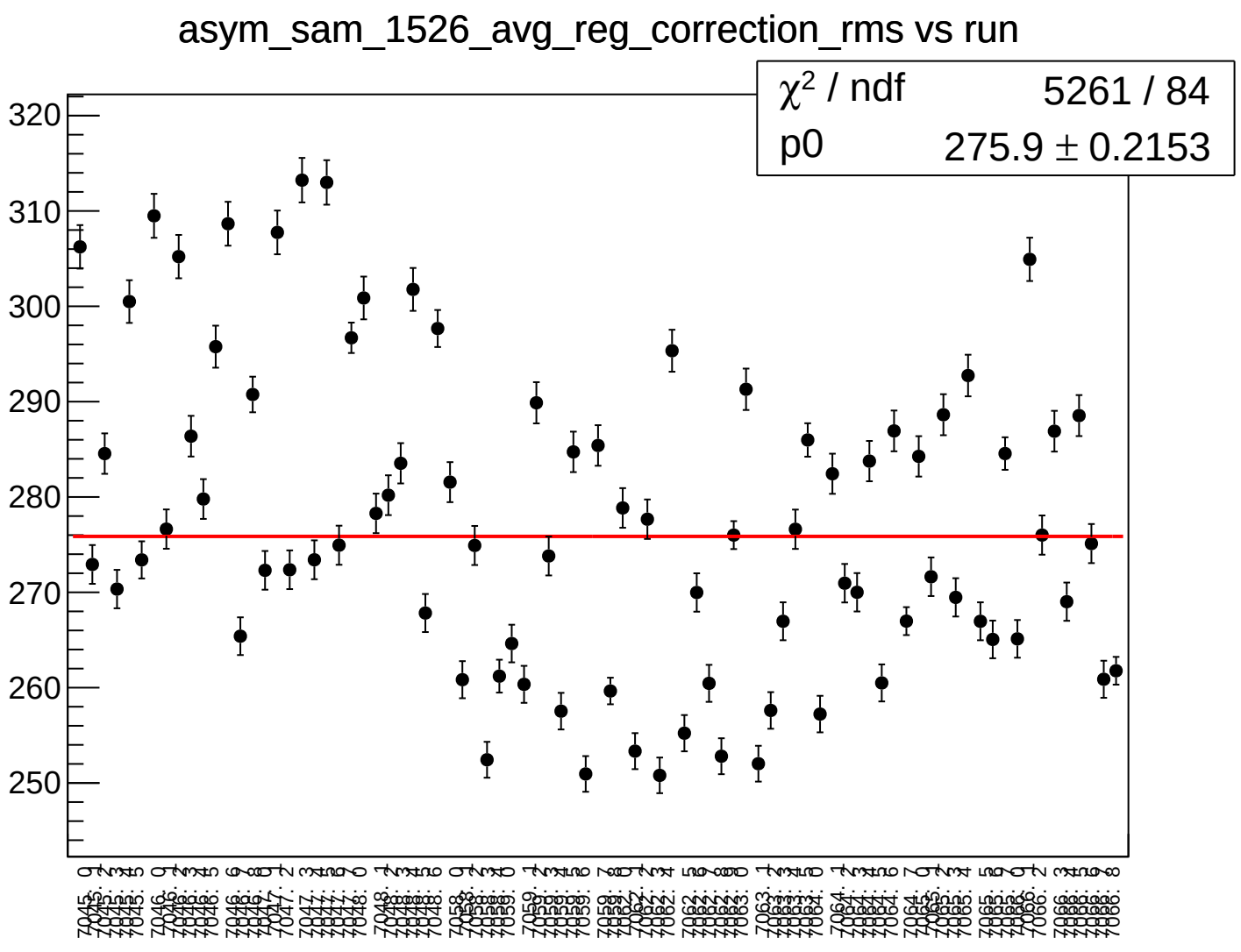

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 93.57 / 84
p0 −60.02 ± 50.69
pull
Entries 85
Mean −49.7
Std Dev 0

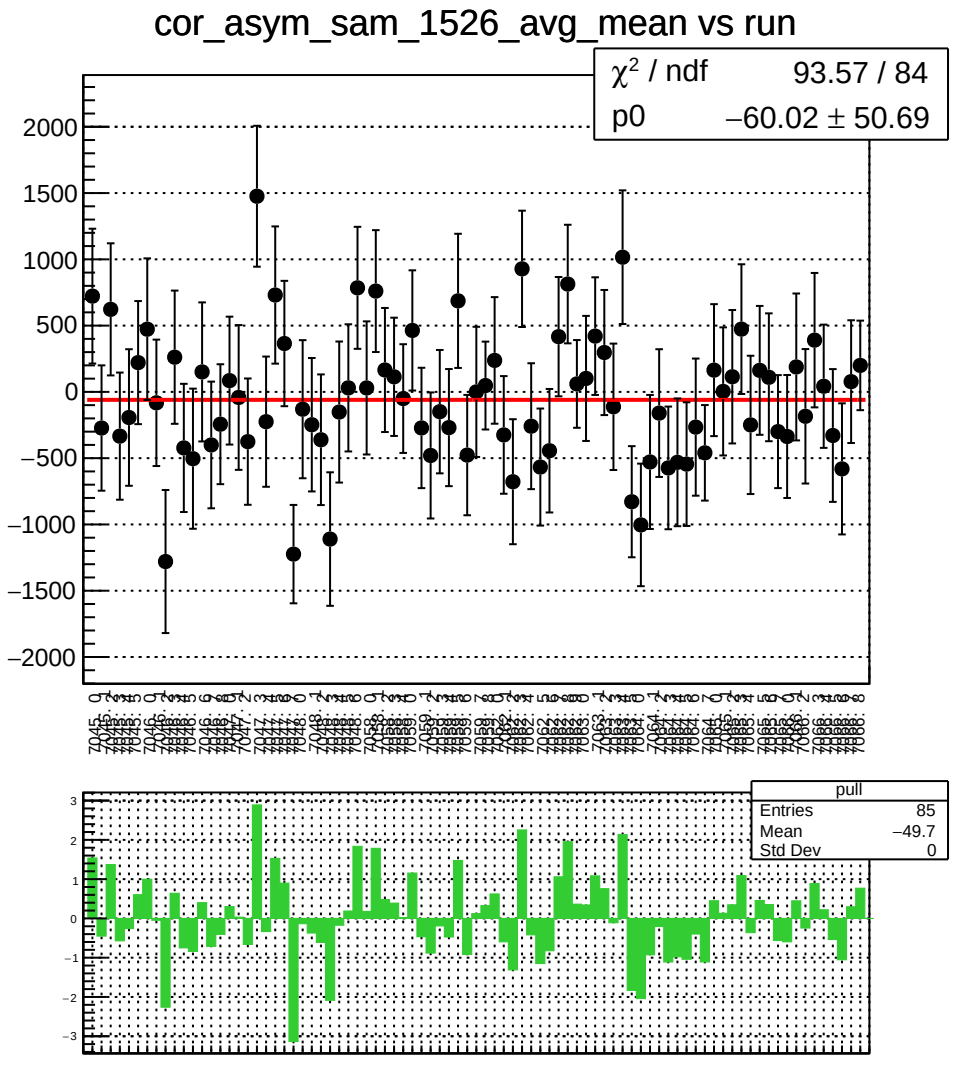

pull1D
Entries 85
Mean 0.01229
Std Dev 1.049

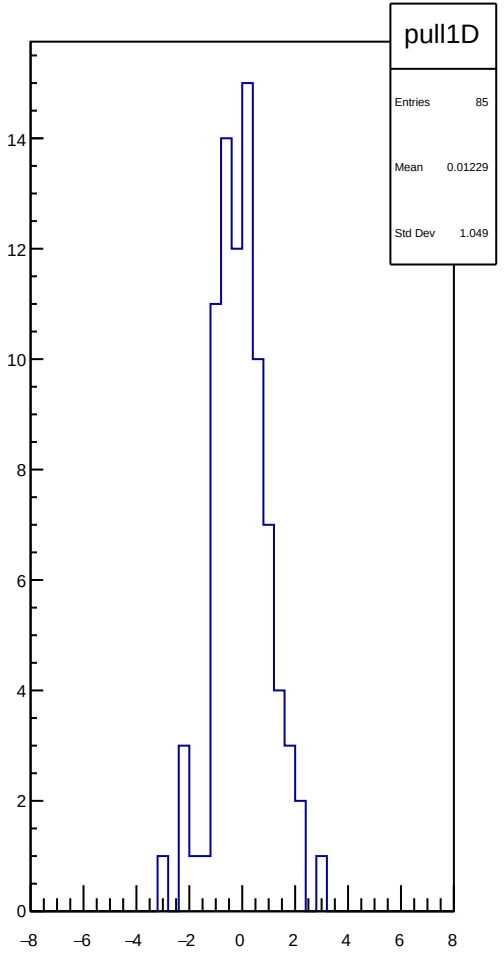

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5113 / 84
p0 45.93 ± 0.03584
54
52
50
48
46
44
42

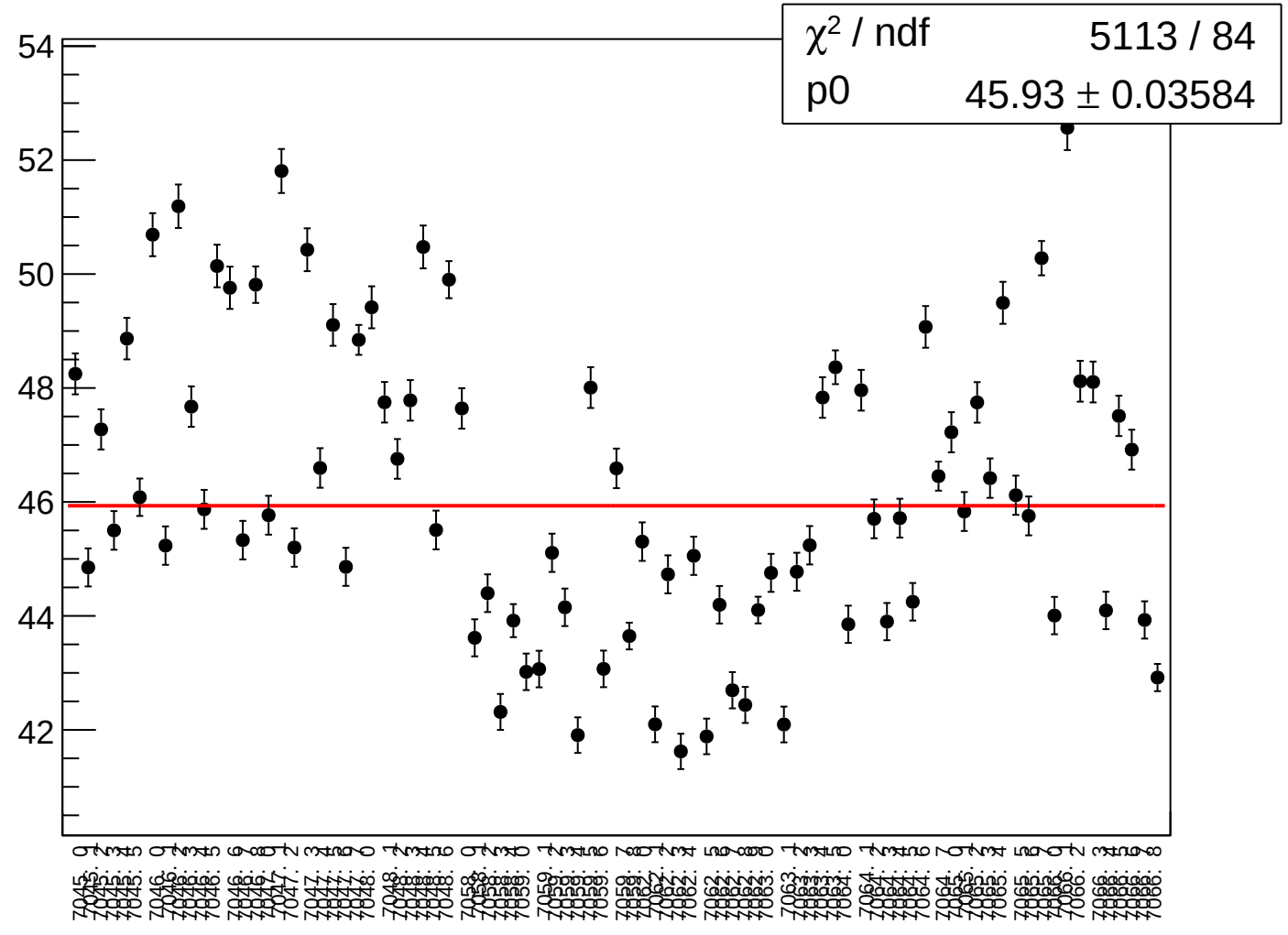

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 60.03 / 84
p0 −491.6 ± 304.5
pull
Entries 85
Mean −153.7
Std Dev 0

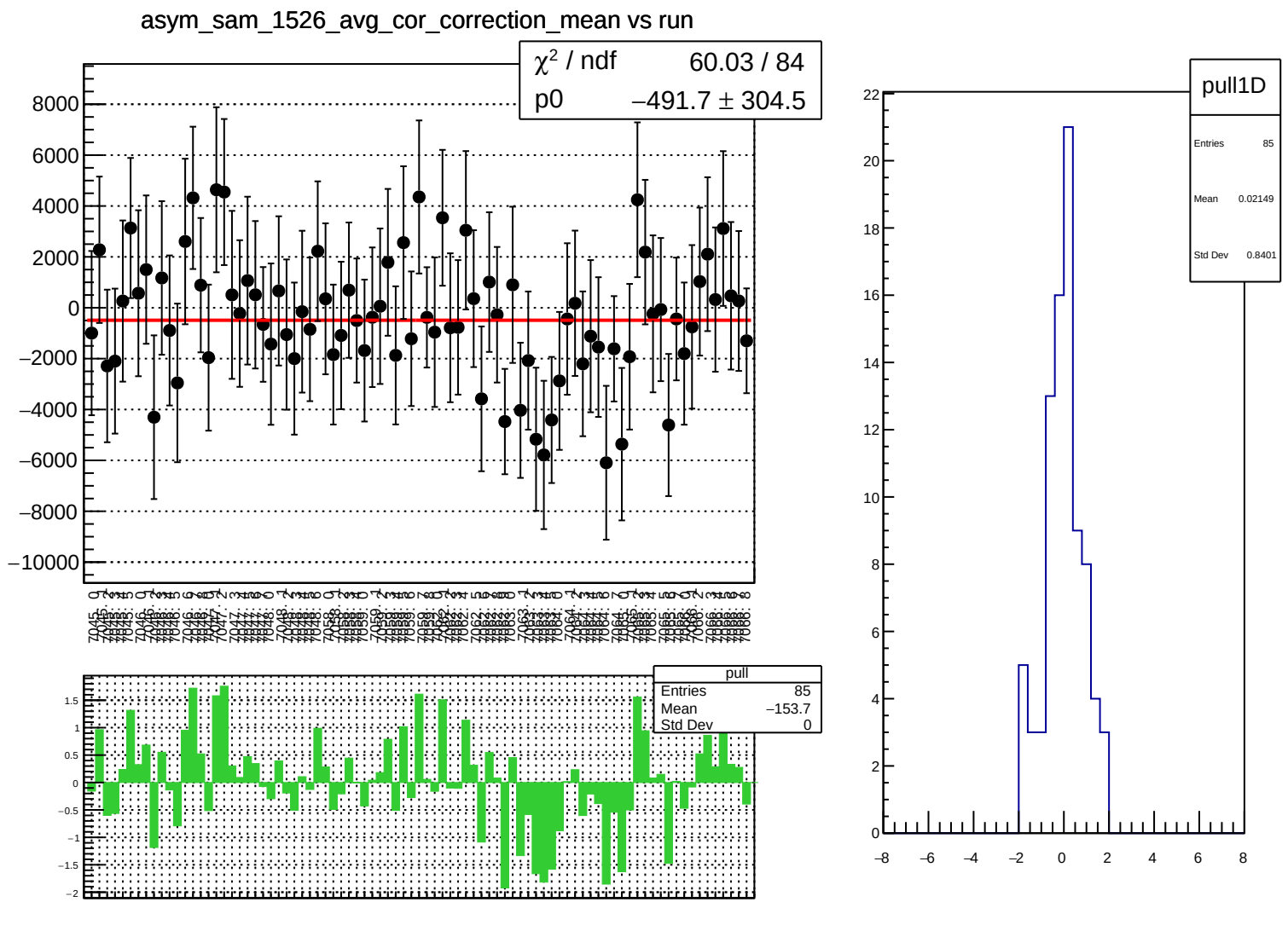

pull1D
Entries 85
Mean 0.02149
Std Dev 0.8401

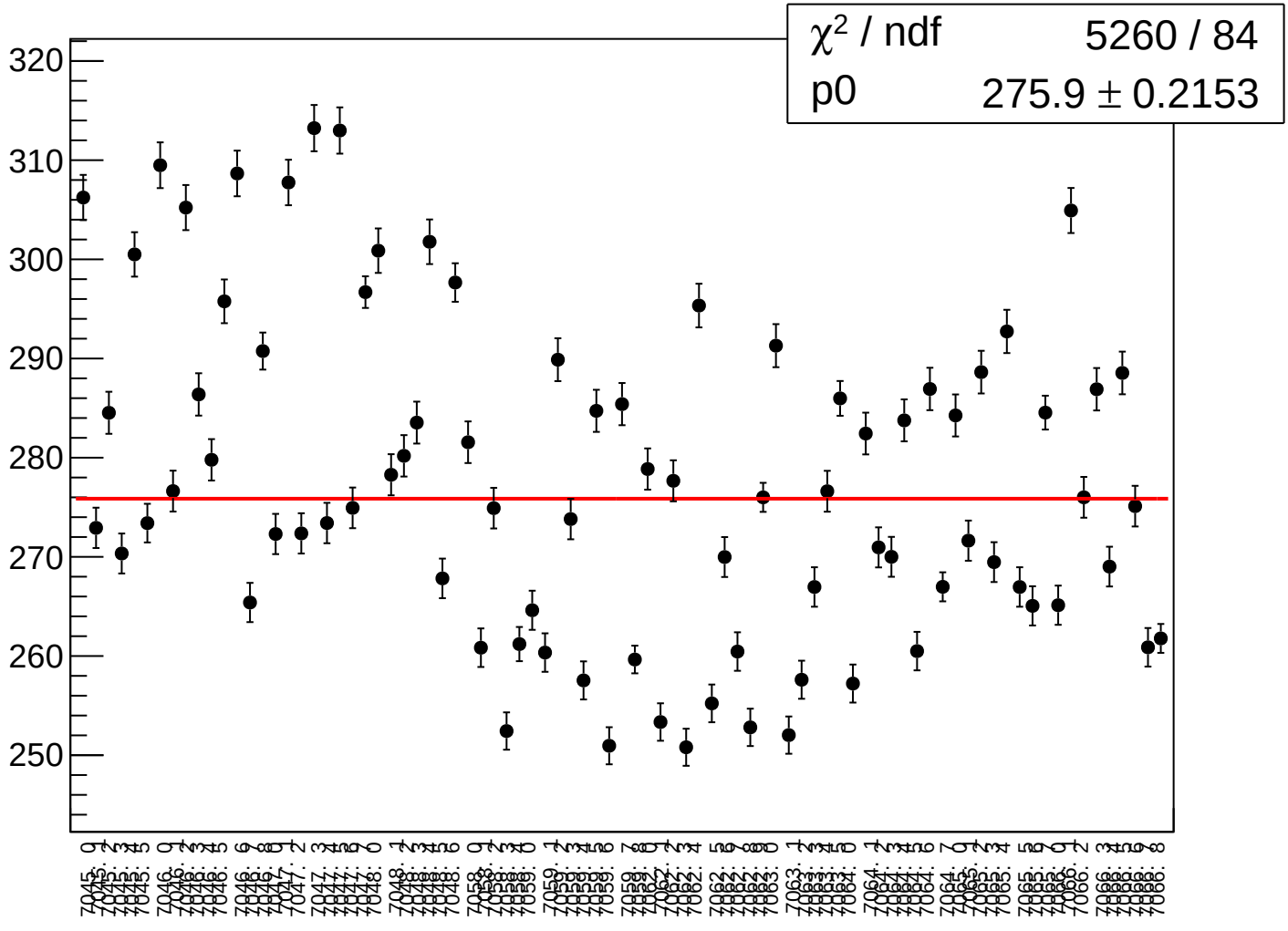

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5261 / 84
p0 275.9 ± 0.2153
320
310
300
290
280
270
260
250

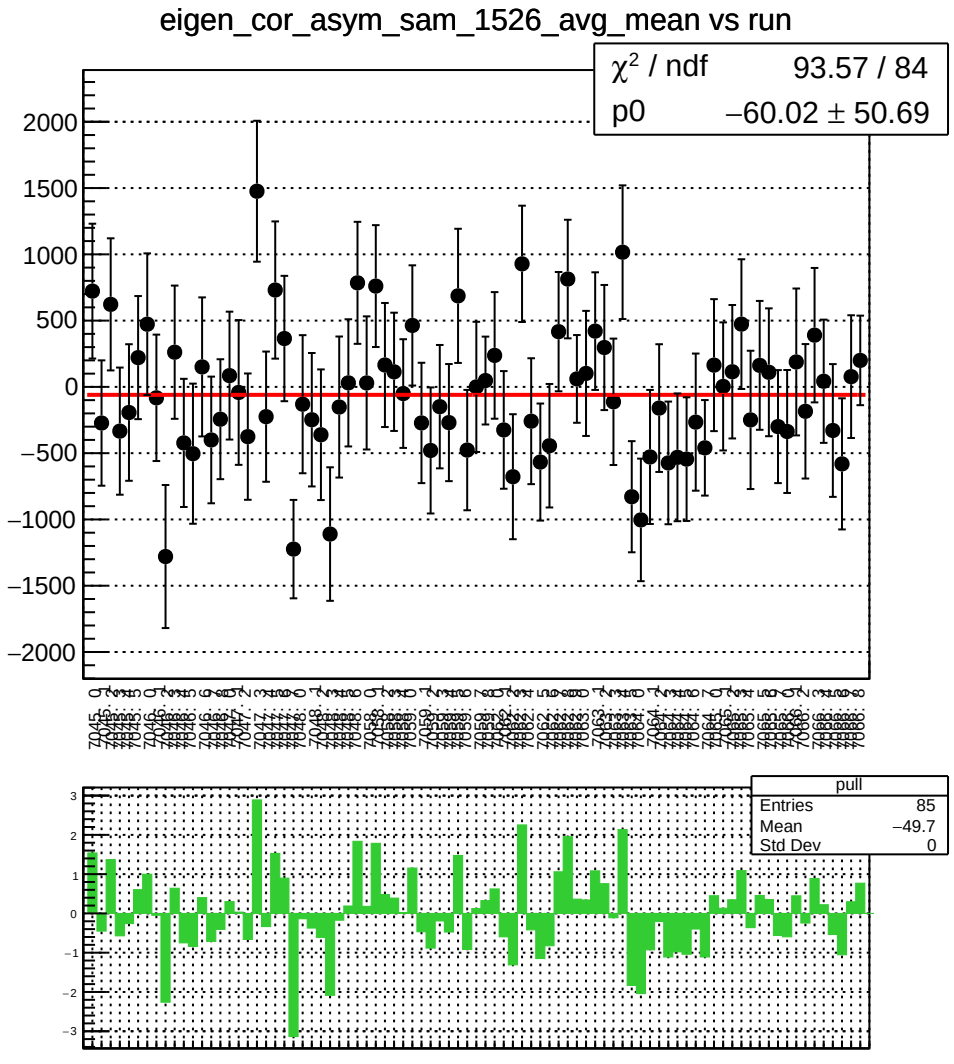

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 93.57 / 84
p0 −60.02 ± 50.69
pull
Entries 85
Mean −49.7
Std Dev 0

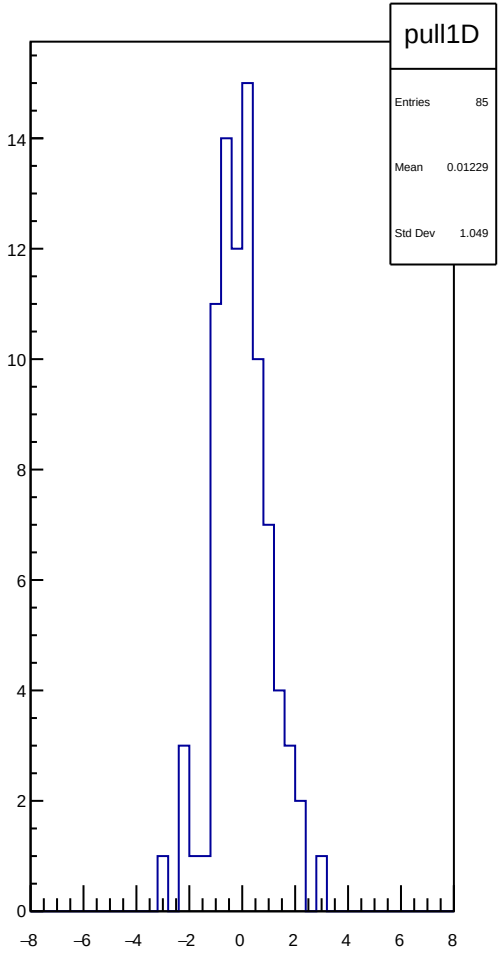

pull1D
Entries 85
Mean 0.01229
Std Dev 1.049

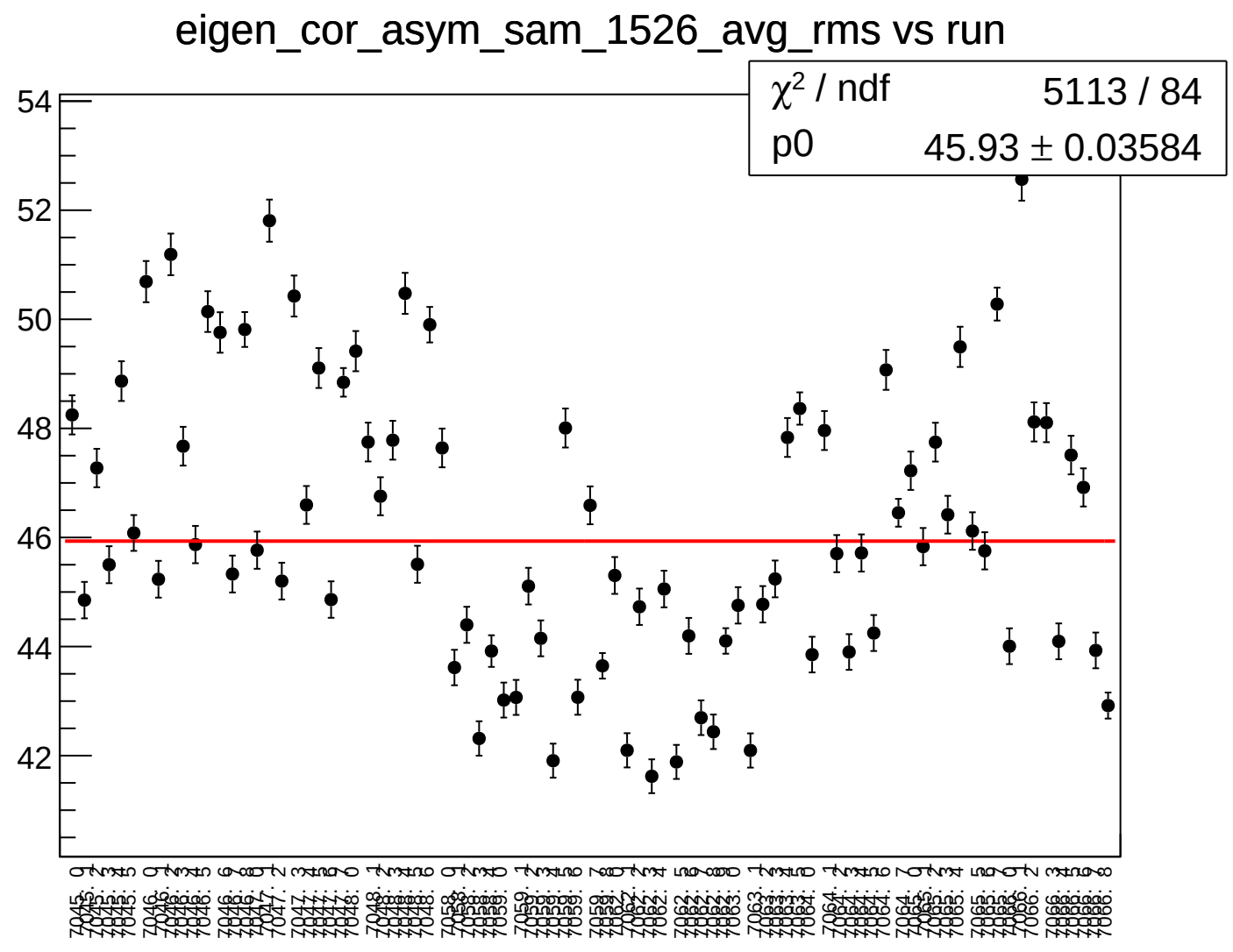

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 5113 / 84
p0 45.93 ± 0.03584
54
52
50
48
46
44
42

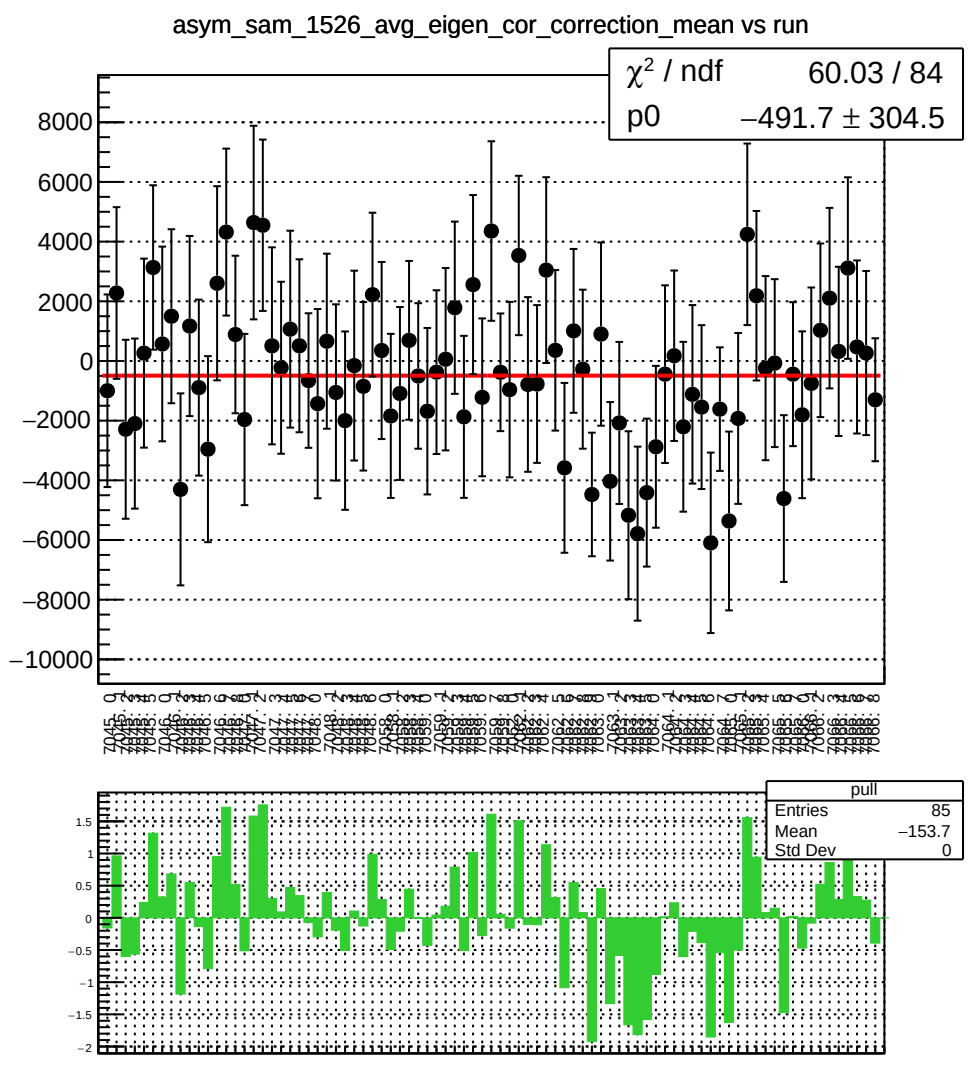

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 60.03 / 84
p0 −491.7 ± 304.5
pull
Entries 85
Mean −153.7
Std Dev 0
pull1D
Entries 85
Mean 0.02149
Std Dev 0.8401

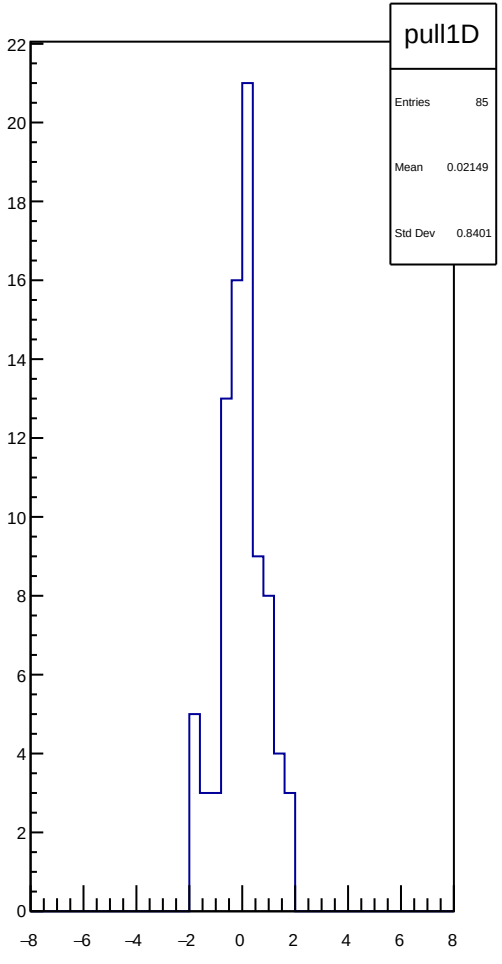

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5260 / 84
p0 275.9 ± 0.2153
320
310
300
290
280
270
260
250

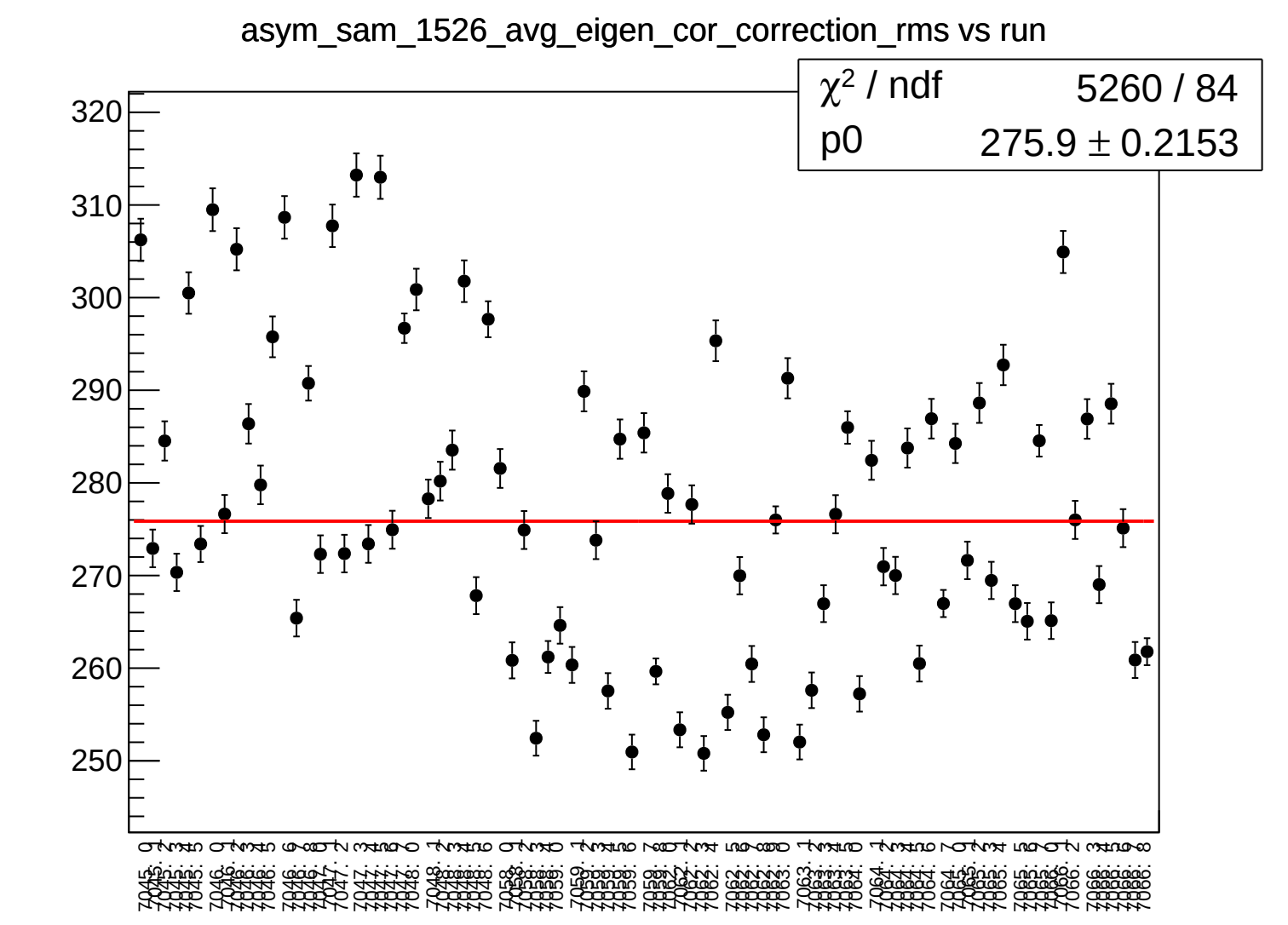

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 93.57 / 84
p0 −60.02 ± 50.69
pull
Entries 85
Mean −49.7
Std Dev 0

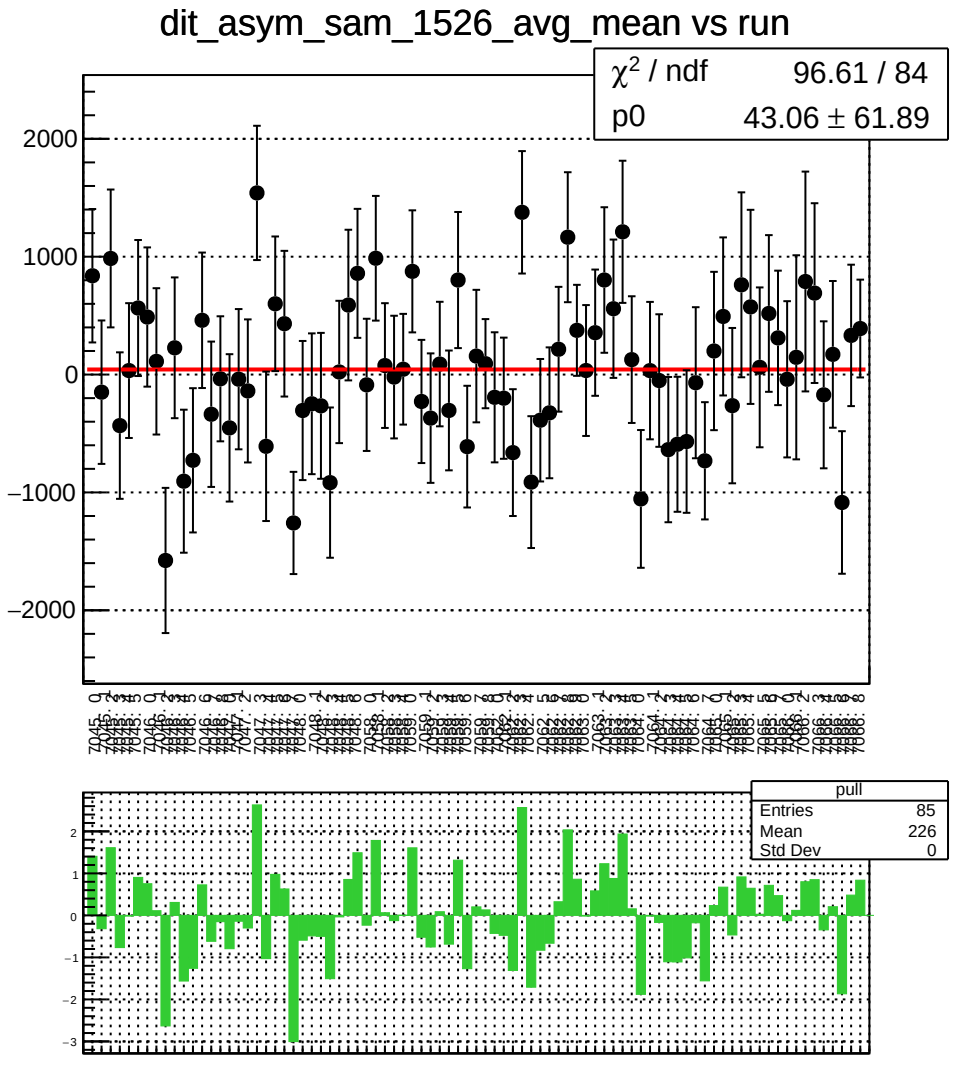

pull1D
Entries 85
Mean 0.01229
Std Dev 1.049

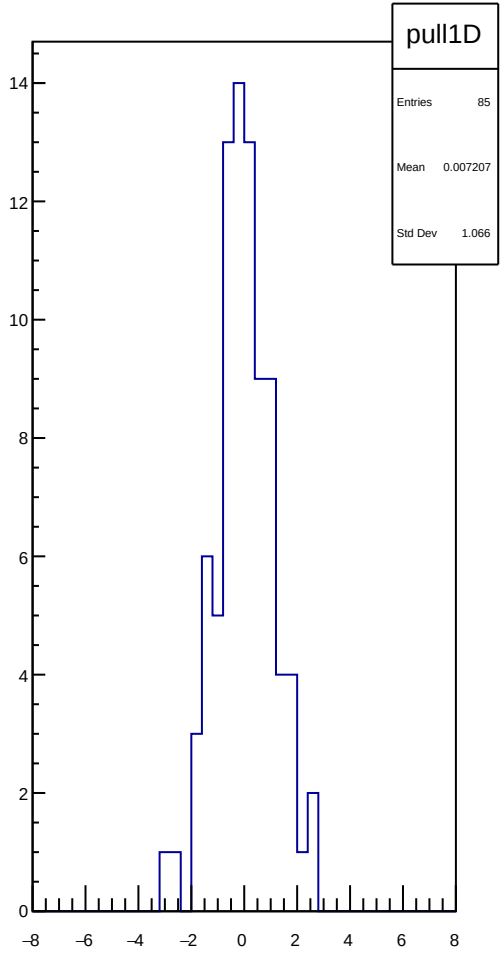

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5113 / 84
p0 45.93 ± 0.03584
54
52
50
48
46
44
42

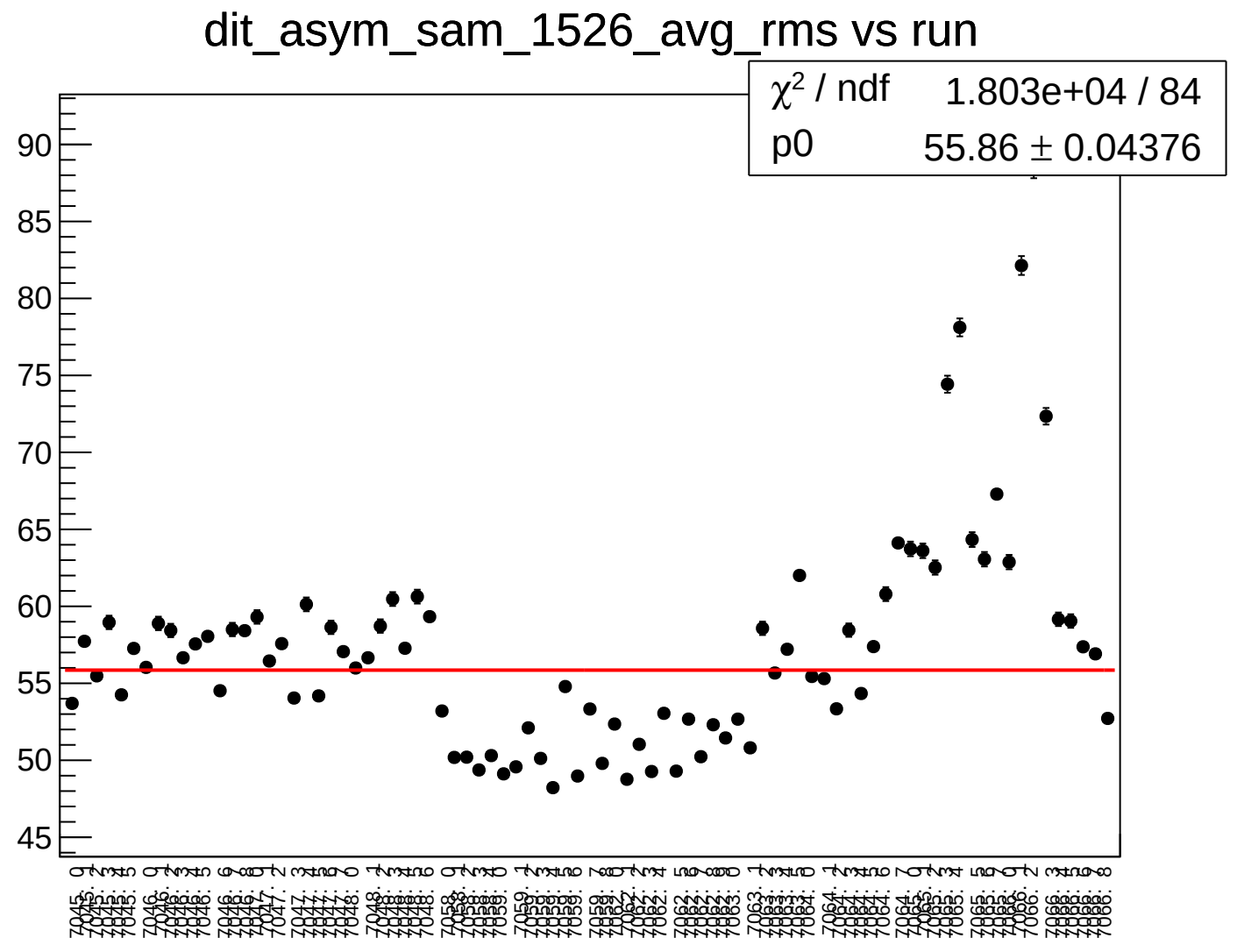

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 60.03 / 84
p0 −491.7 ± 304.5
pull
Entries 85
Mean −153.7
Std Dev 0

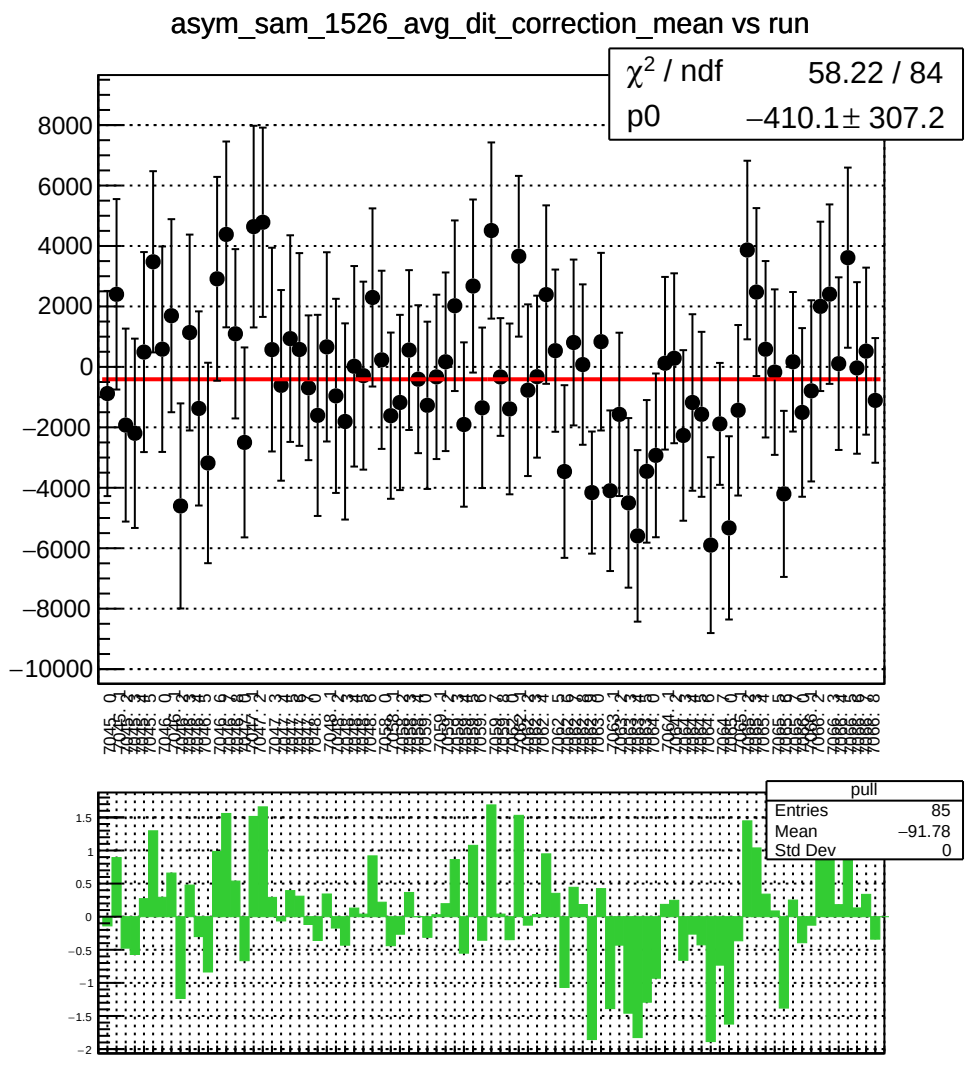

pull1D
Entries 85
Mean 0.02149
Std Dev 0.8401

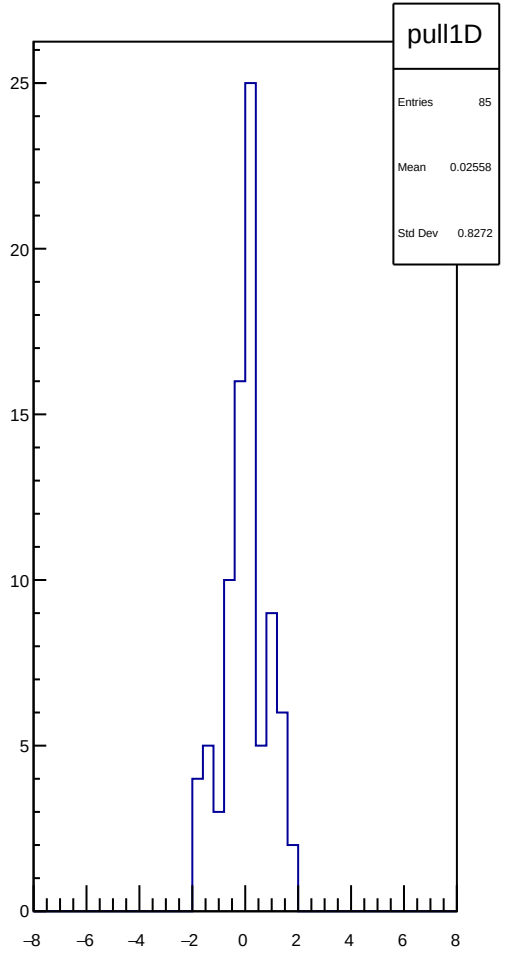

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5260 / 84
p0 275.9 ± 0.2153
320
310
300
290
280
270
260
250

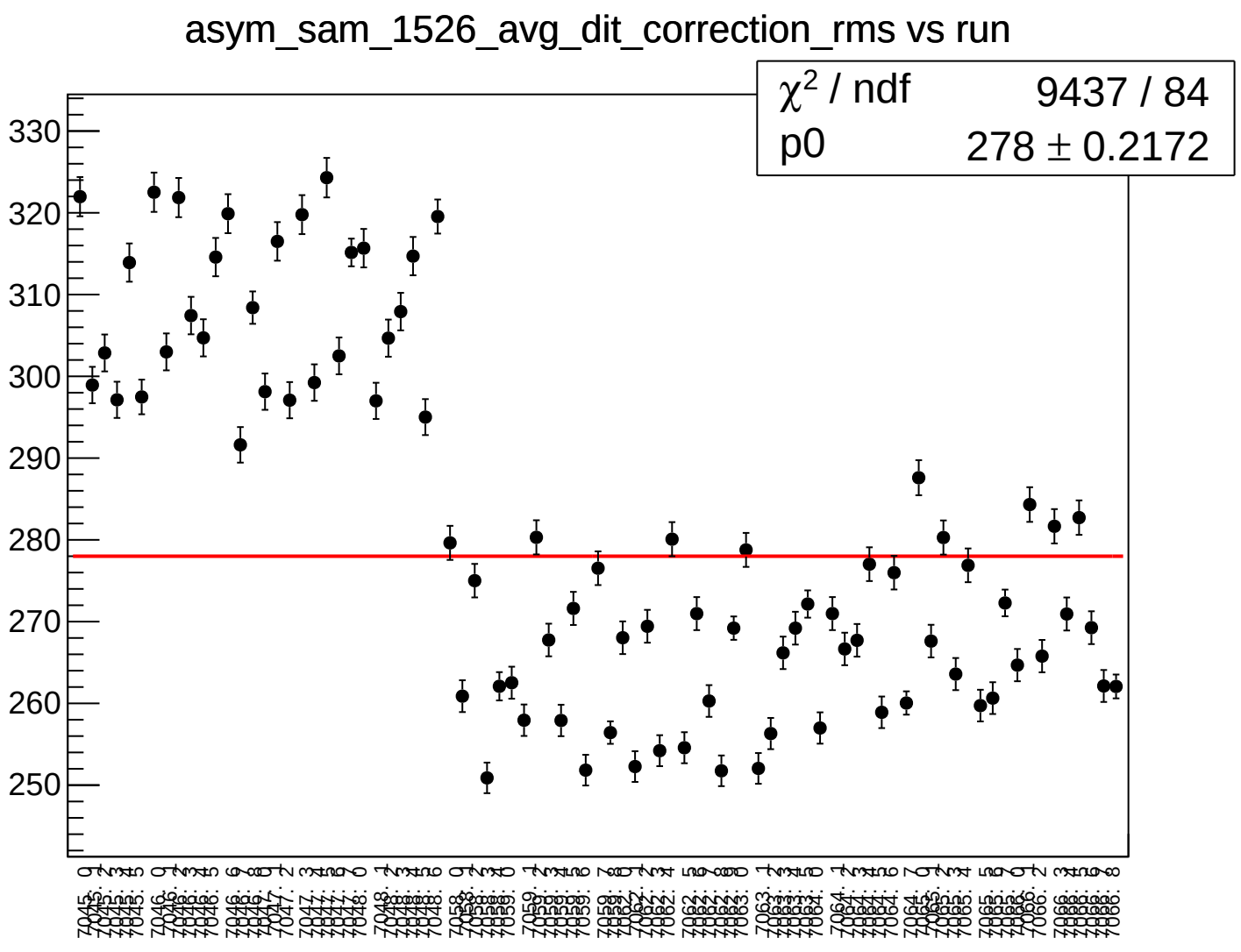

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 96.61 / 84
p0 43.06 ± 61.89
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 226
Std Dev 0
2
1
0
−1
−2
−3

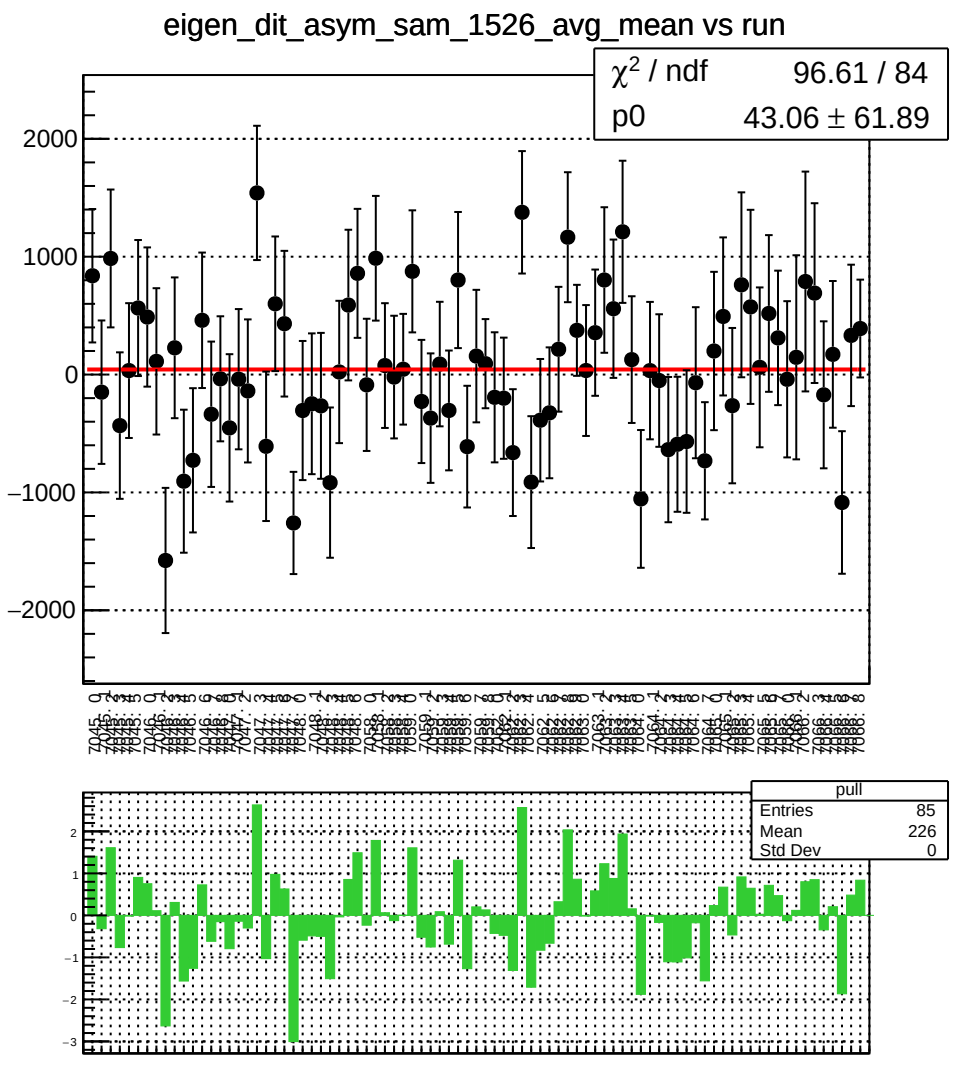

pull1D
Entries 85
Mean 0.007207
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

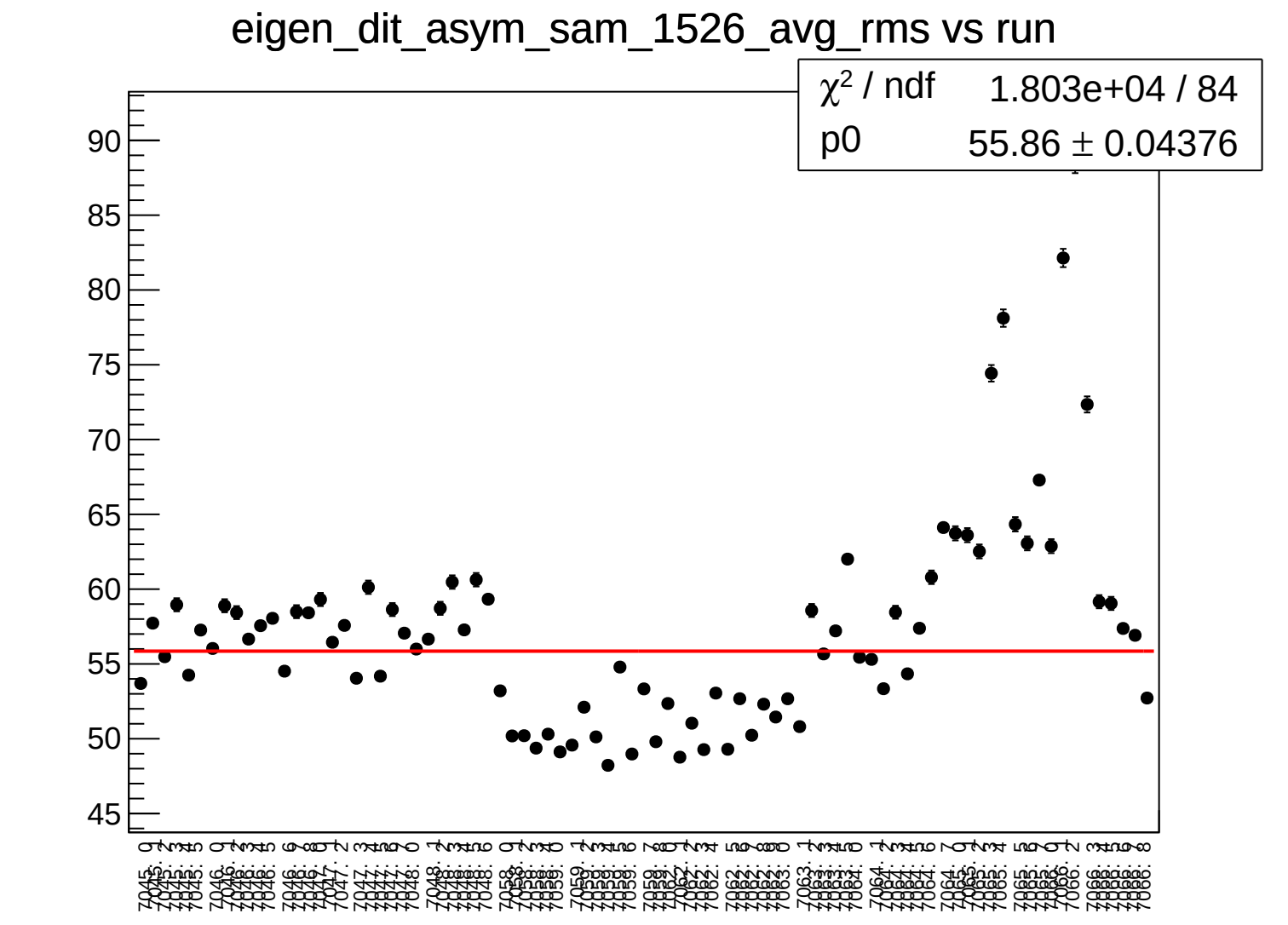

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.803e+04 / 84
p0 55.86 ± 0.04376
90
85
80
75
70
65
60
55
50
45

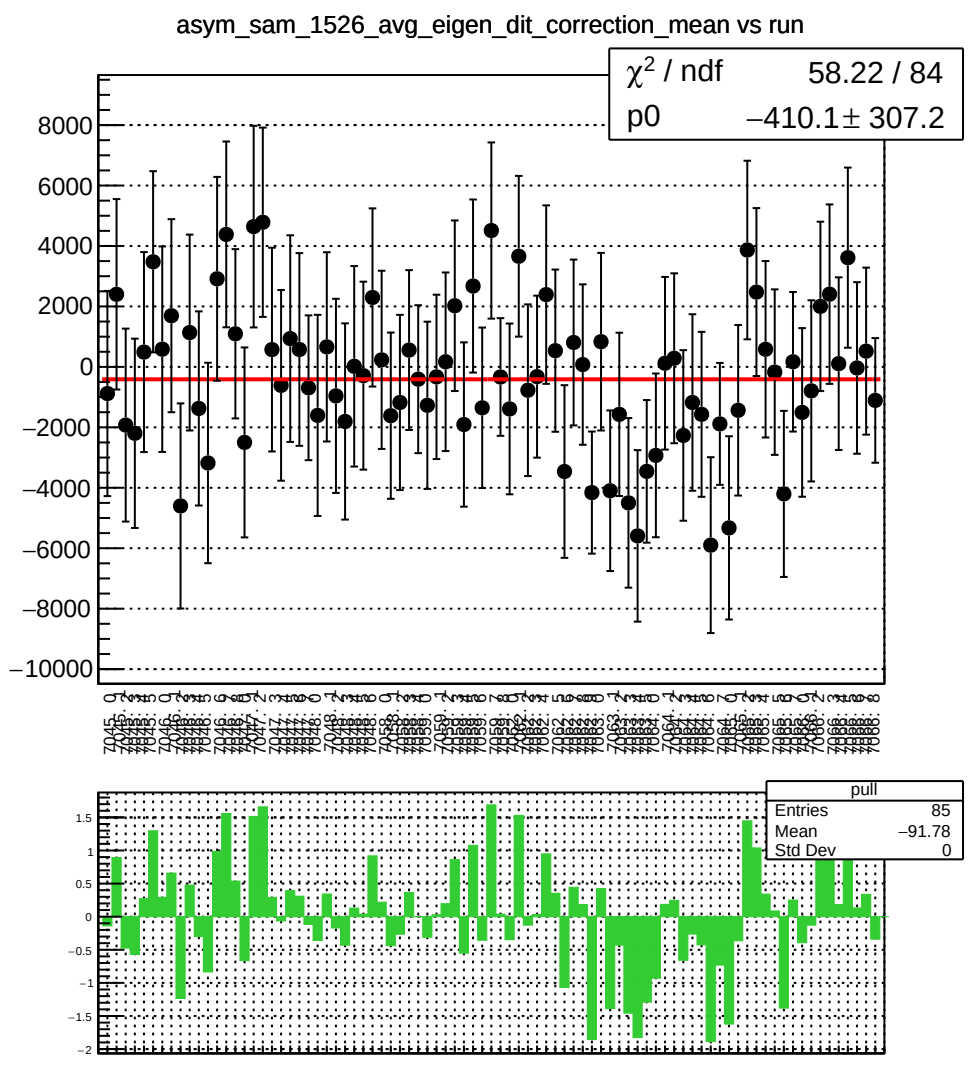

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 58.22 / 84
p0 −410.1± 307.2
pull
Entries 85
Mean −91.78
Std Dev 0

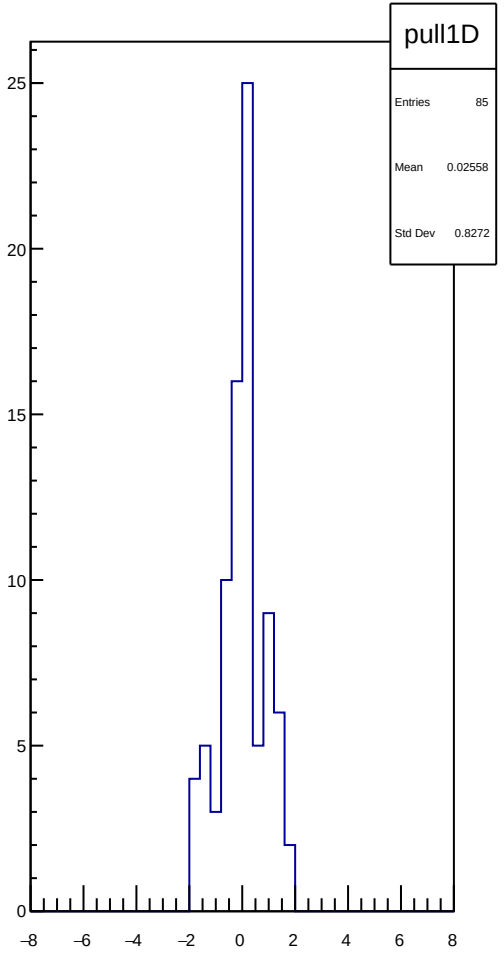

pull1D
Entries 85
Mean 0.02558
Std Dev 0.8272

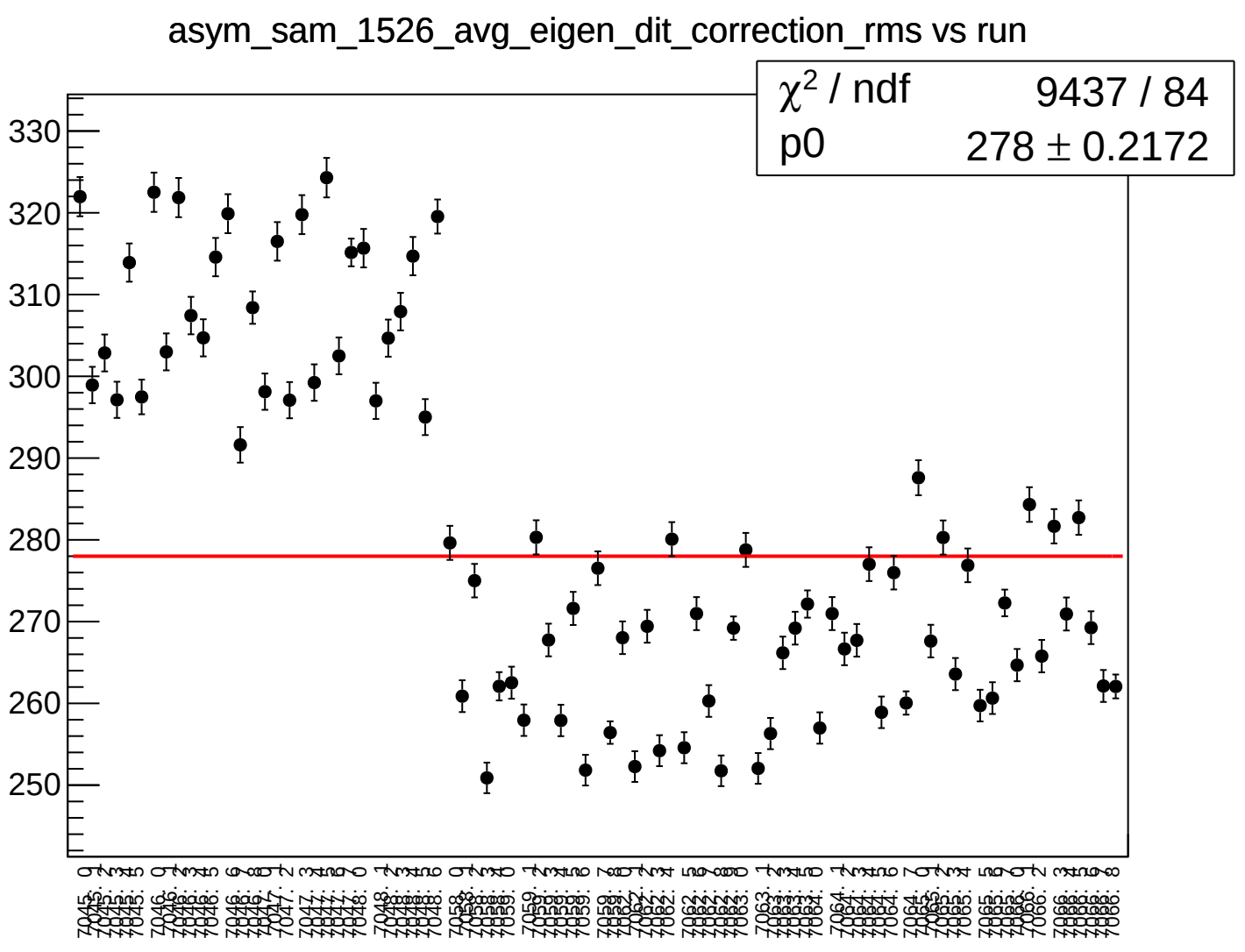

asym_sam_1526_avg_dit_correction_rms vs run
χ^2 / ndf 9437 / 84
p0 278 ± 0.2172
330
320
310
300
290
280
270
260
250

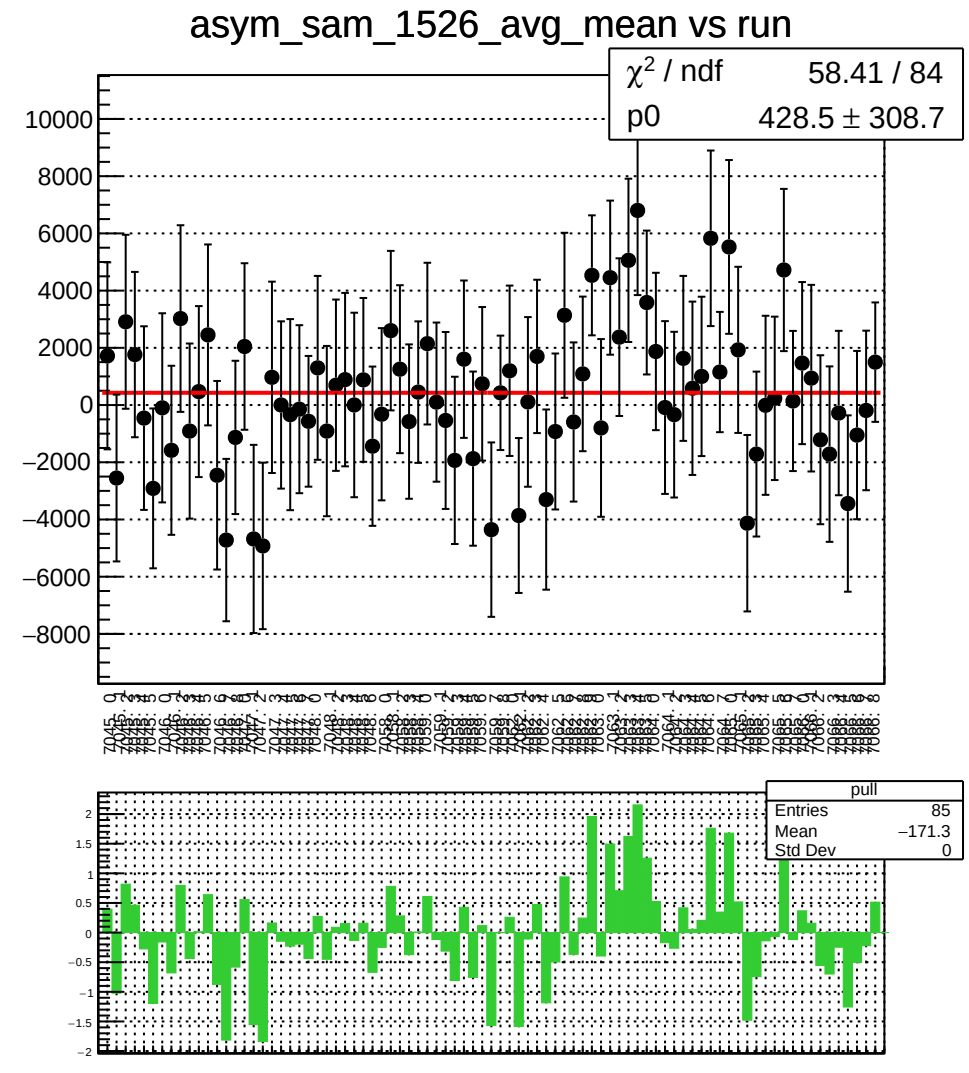

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 96.61 / 84
p0 43.06 ± 61.89
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 226
Std Dev 0
pull1D
Entries 85
Mean 0.007209
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

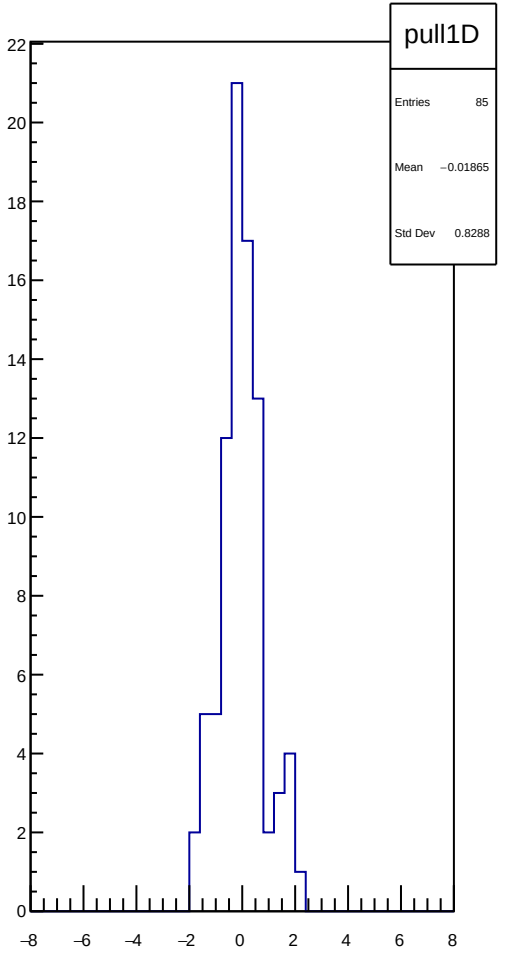

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.803e+04 / 84
p0 55.86 ± 0.04376
90
85
80
75
70
65
60
55
50
45

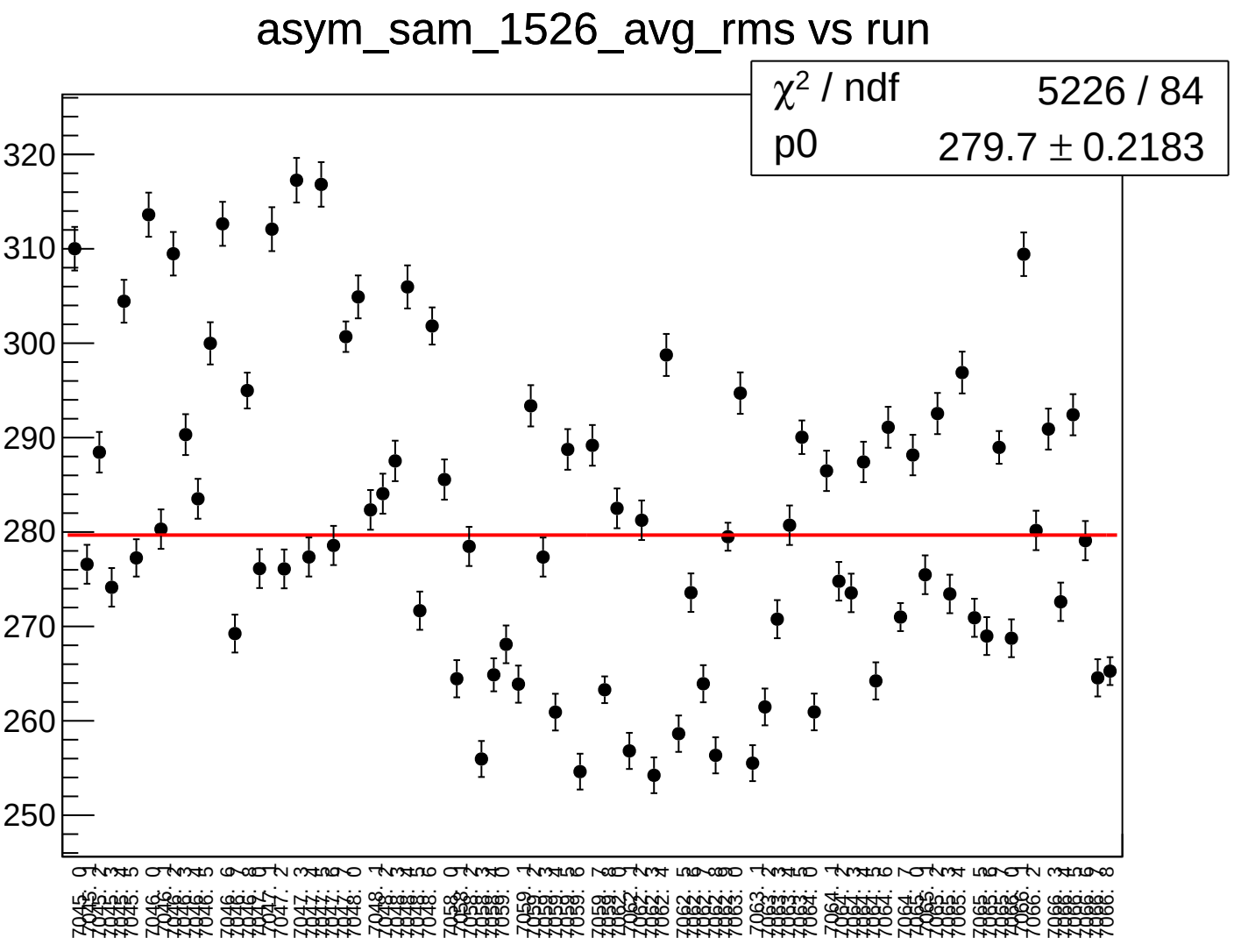

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 58.22 / 84
p0 −410.1± 307.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 85
Mean −91.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

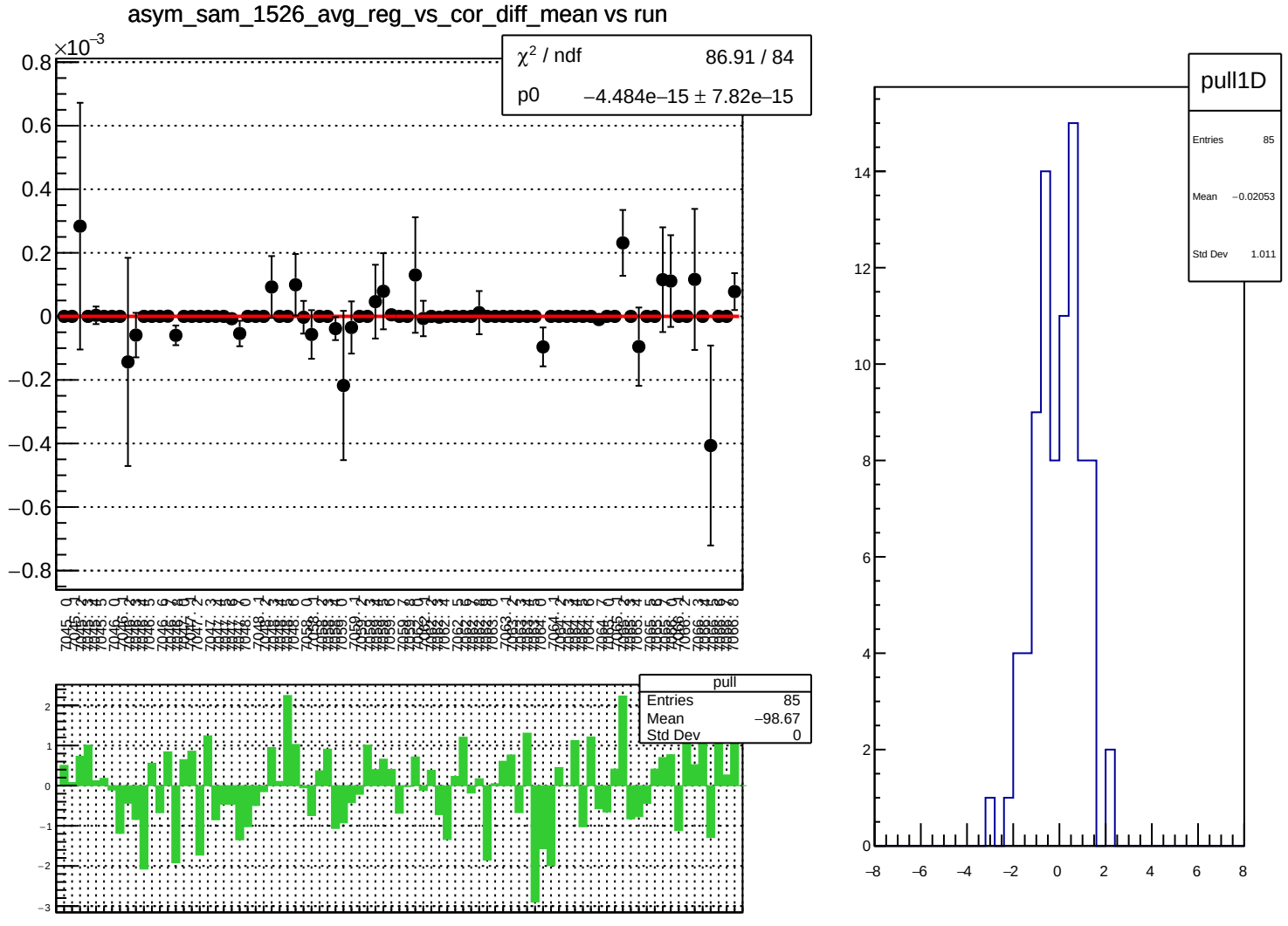

pull1D
Entries 85
Mean 0.02558
Std Dev 0.8272
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

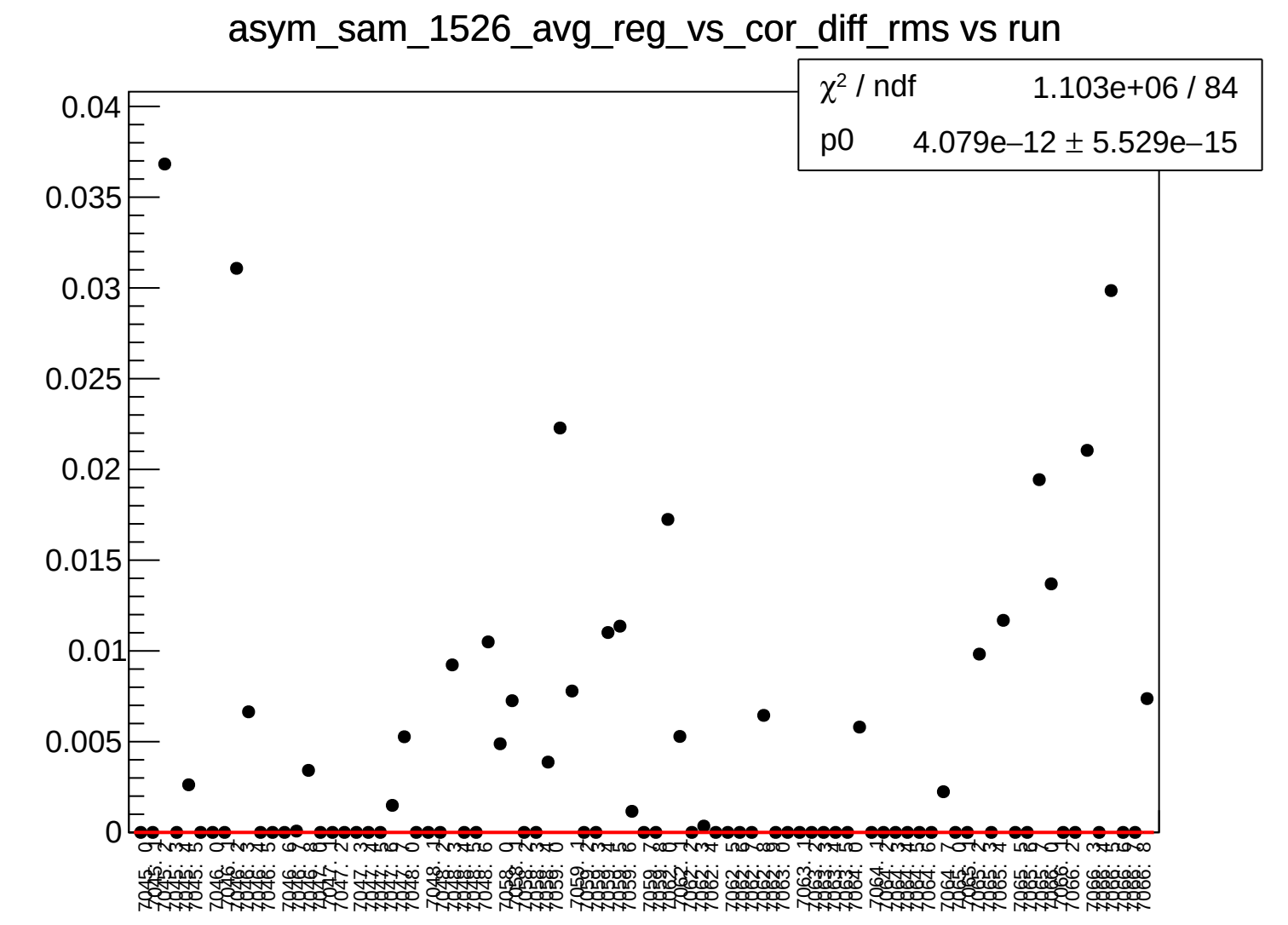

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 9437 / 84
p0 278 ± 0.2172
330
320
310
300
290
280
270
260
250

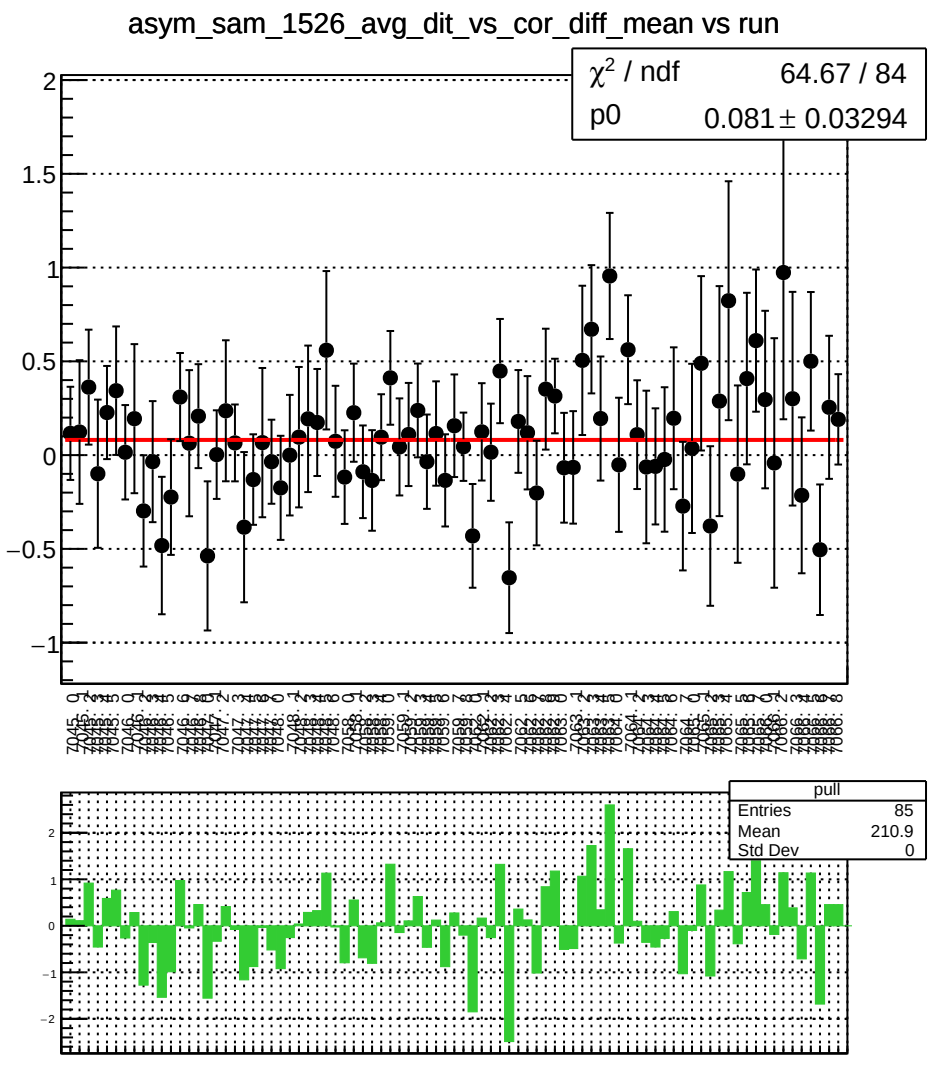

asym_sam_1526_avg_mean vs run
χ² / ndf 58.41 / 84
p0 428.5 ± 308.7
pull
Entries 85
Mean −171.3
Std Dev 0

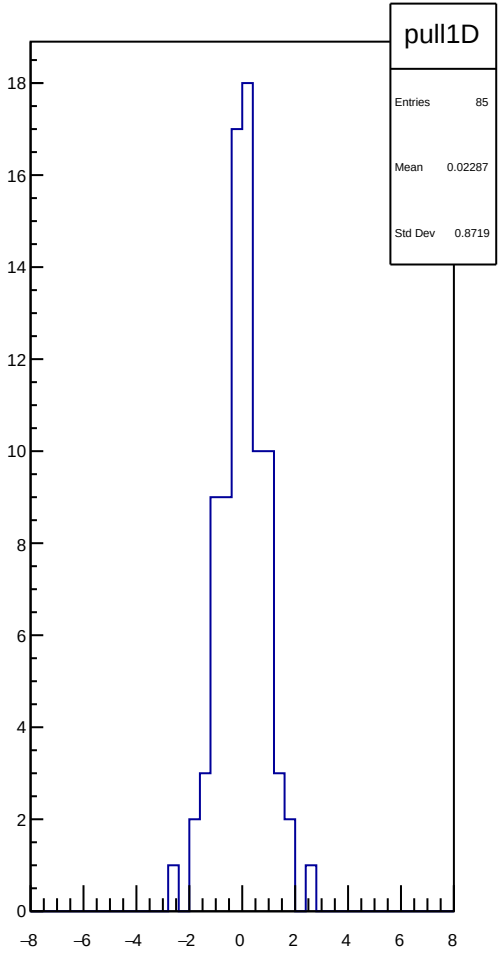

pull1D
Entries 85
Mean −0.01865
Std Dev 0.8288

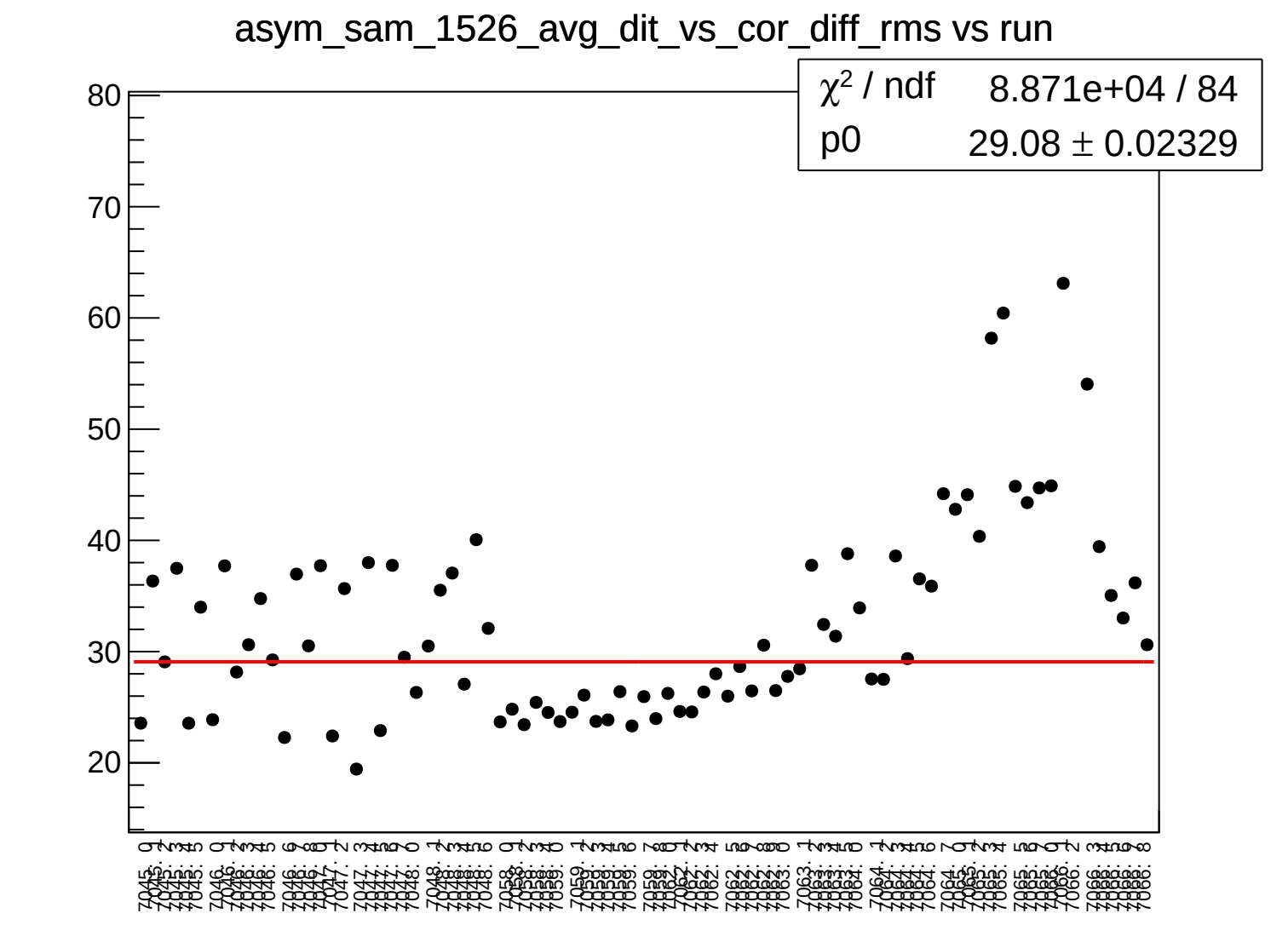

asym_sam_1526_avg_rms vs run
χ² / ndf 5226 / 84
p0 279.7 ± 0.2183
320
310
300
290
280
270
260
250

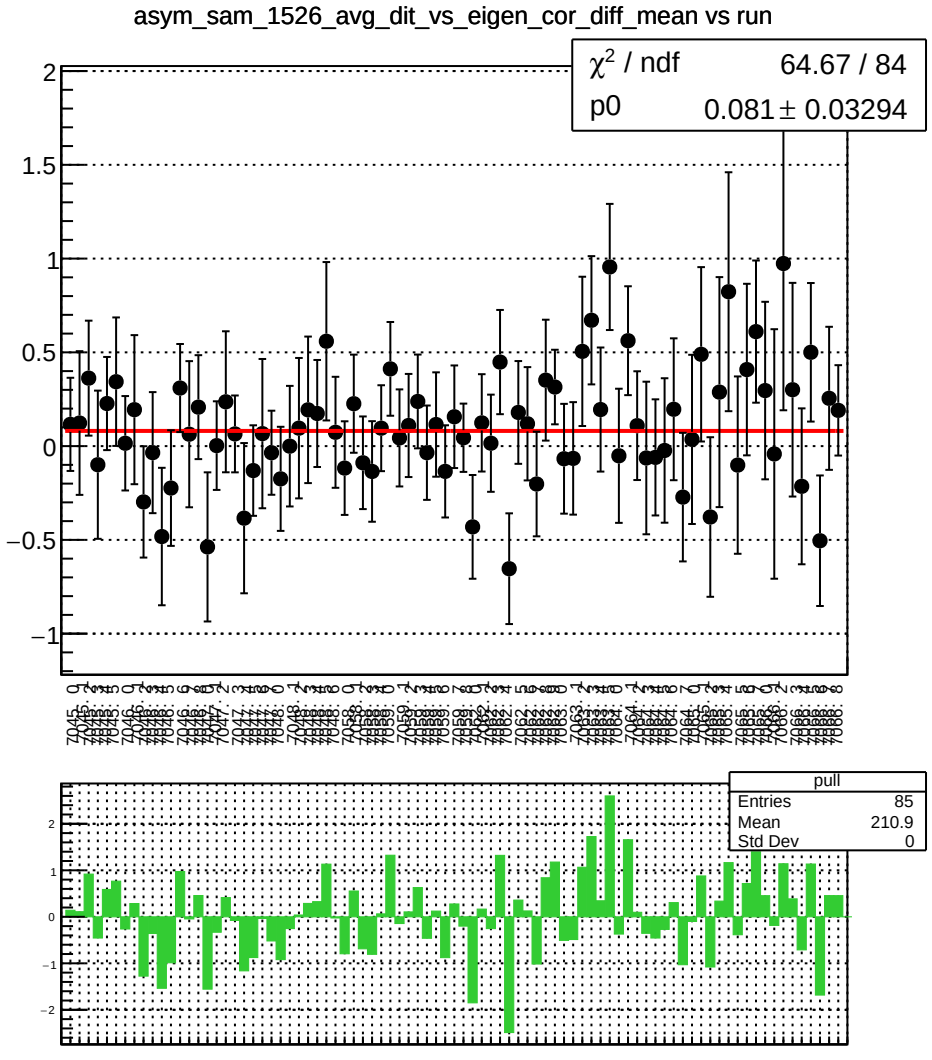

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.91 / 84
p0 −4.484e−15 ± 7.82e−15
pull
Entries 85
Mean −98.67
Std Dev 0
pull1D
Entries 85
Mean −0.02053
Std Dev 1.011

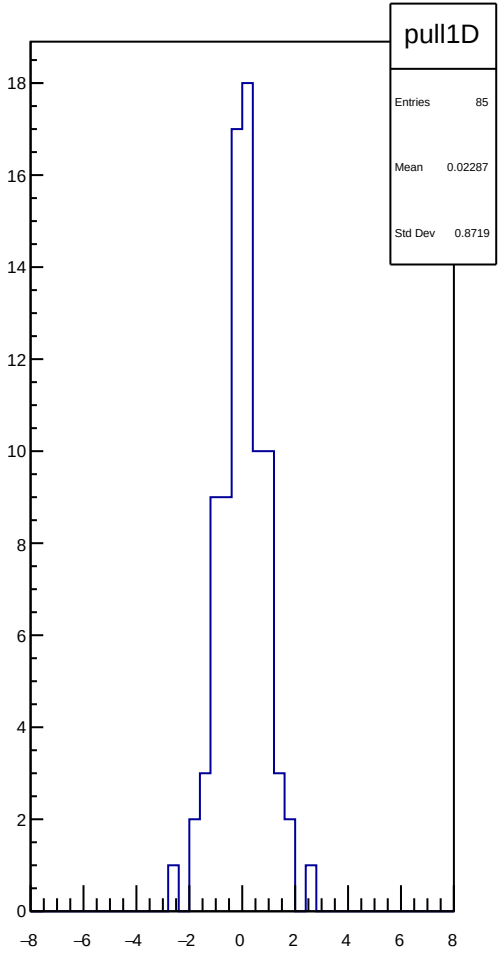

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 84
p0 4.079e−12 ± 5.529e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

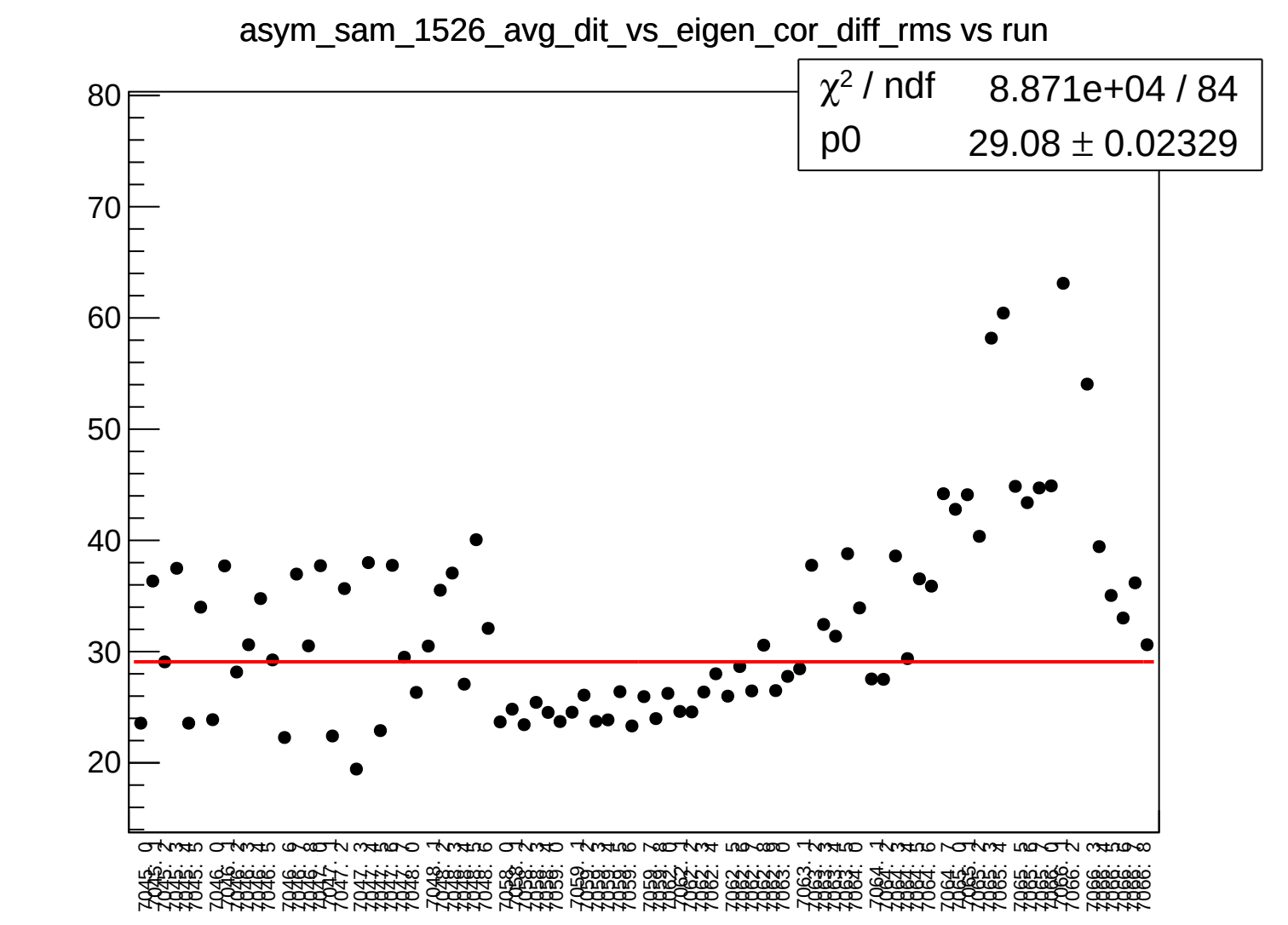

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 64.67 / 84
p0 0.081 ± 0.03294
pull
Entries 85
Mean 210.9
Std Dev 0

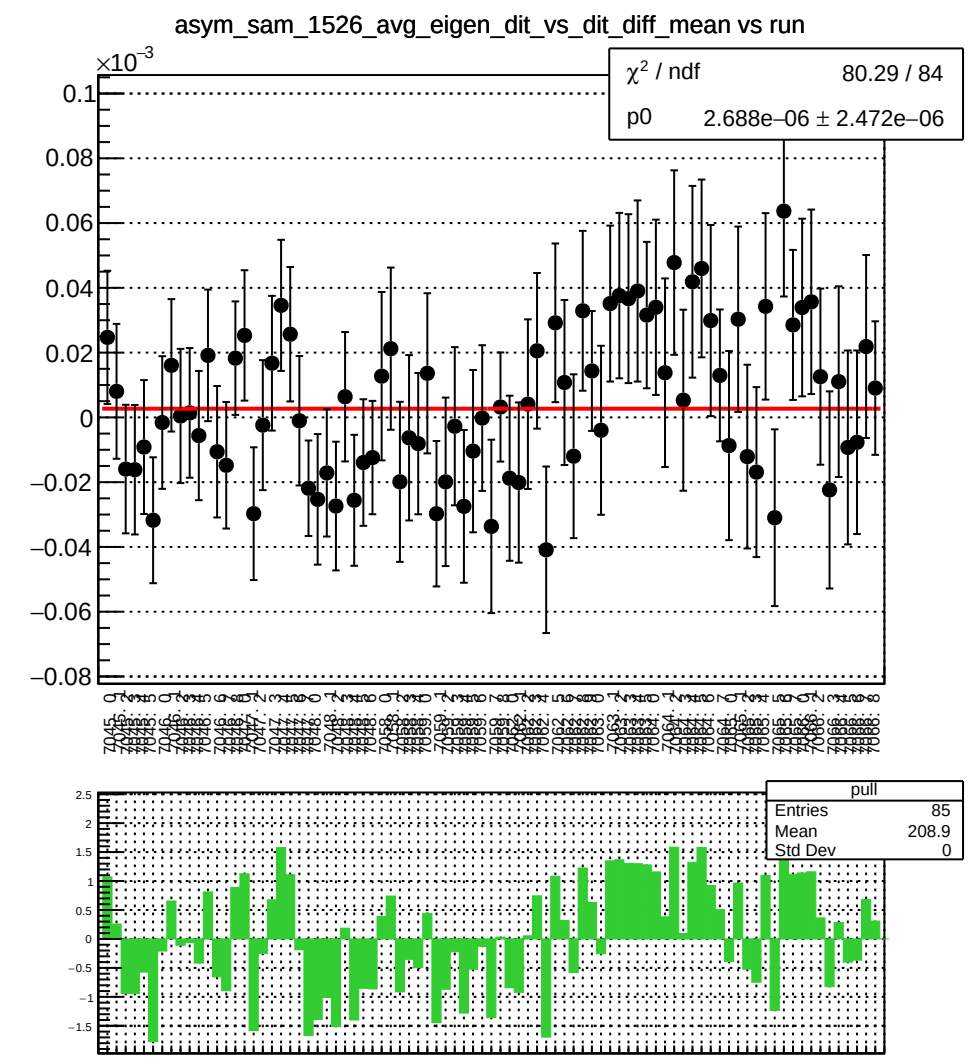

pull1D
Entries 85
Mean 0.02287
Std Dev 0.8719

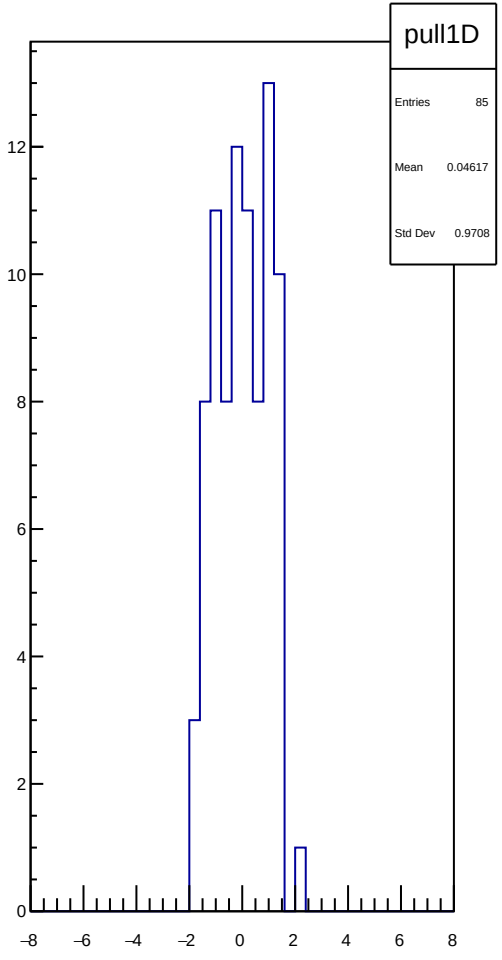

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.871e+04 / 84
p0 29.08 ± 0.02329
80
70
60
50
40
30
20

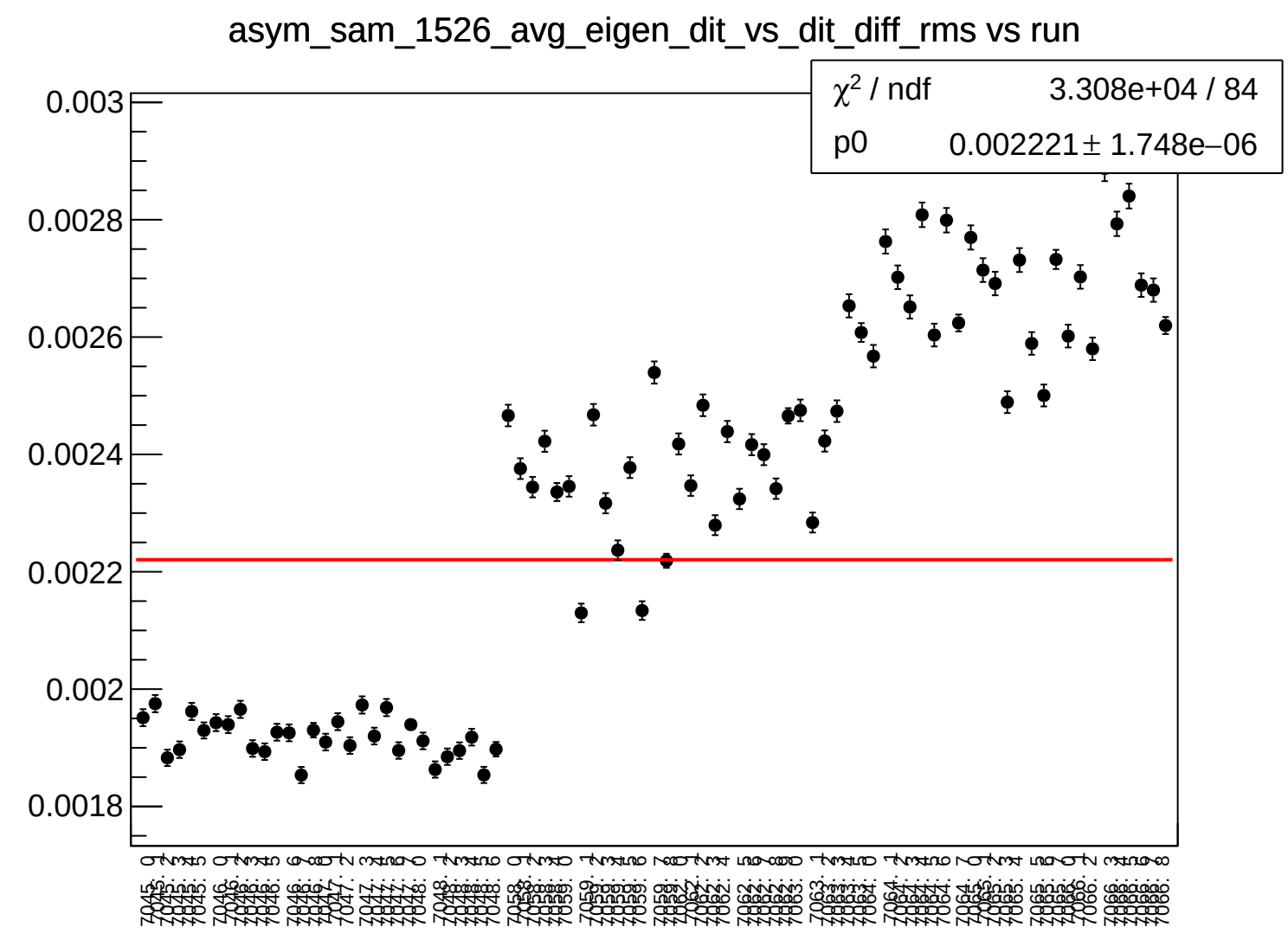

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.67 / 84
p0 0.081 ± 0.03294
pull
Entries 85
Mean 210.9
Std Dev 0

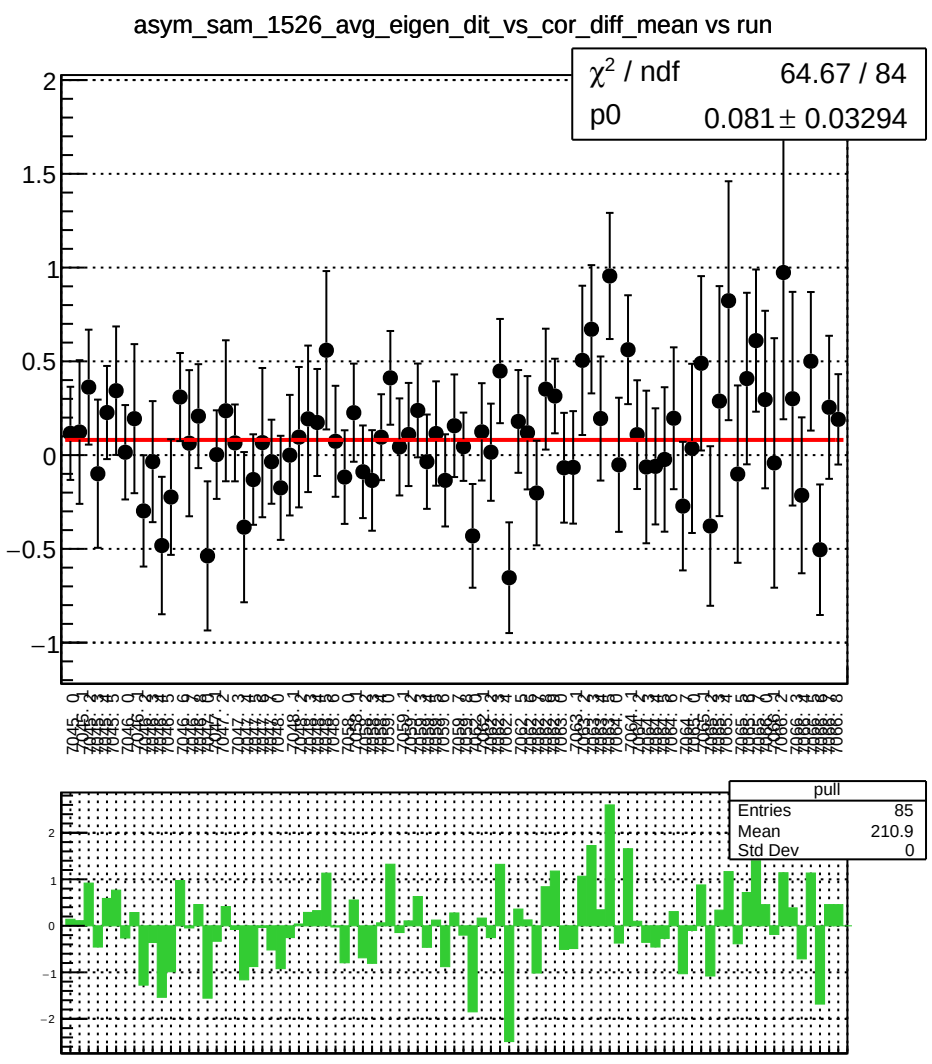

pull1D
Entries 85
Mean 0.02287
Std Dev 0.8719

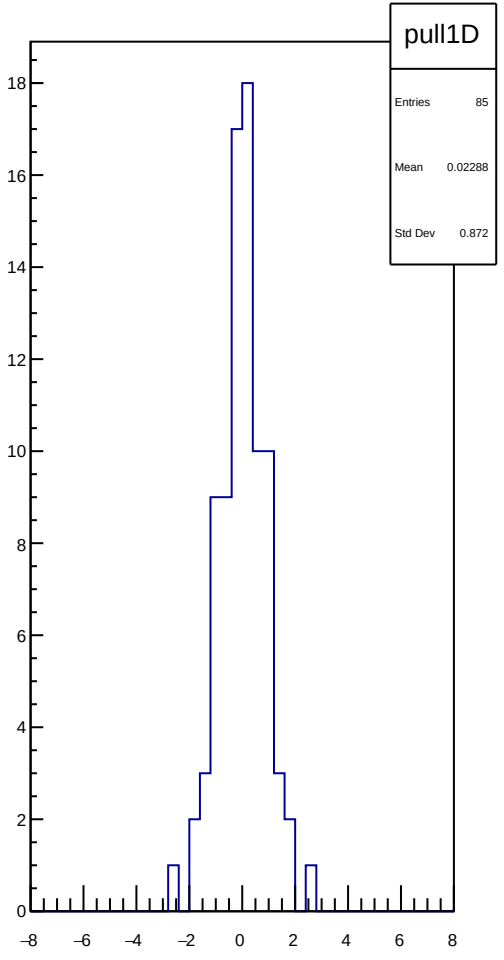

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.871e+04 / 84
p0 29.08 ± 0.02329
80
70
60
50
40
30
20

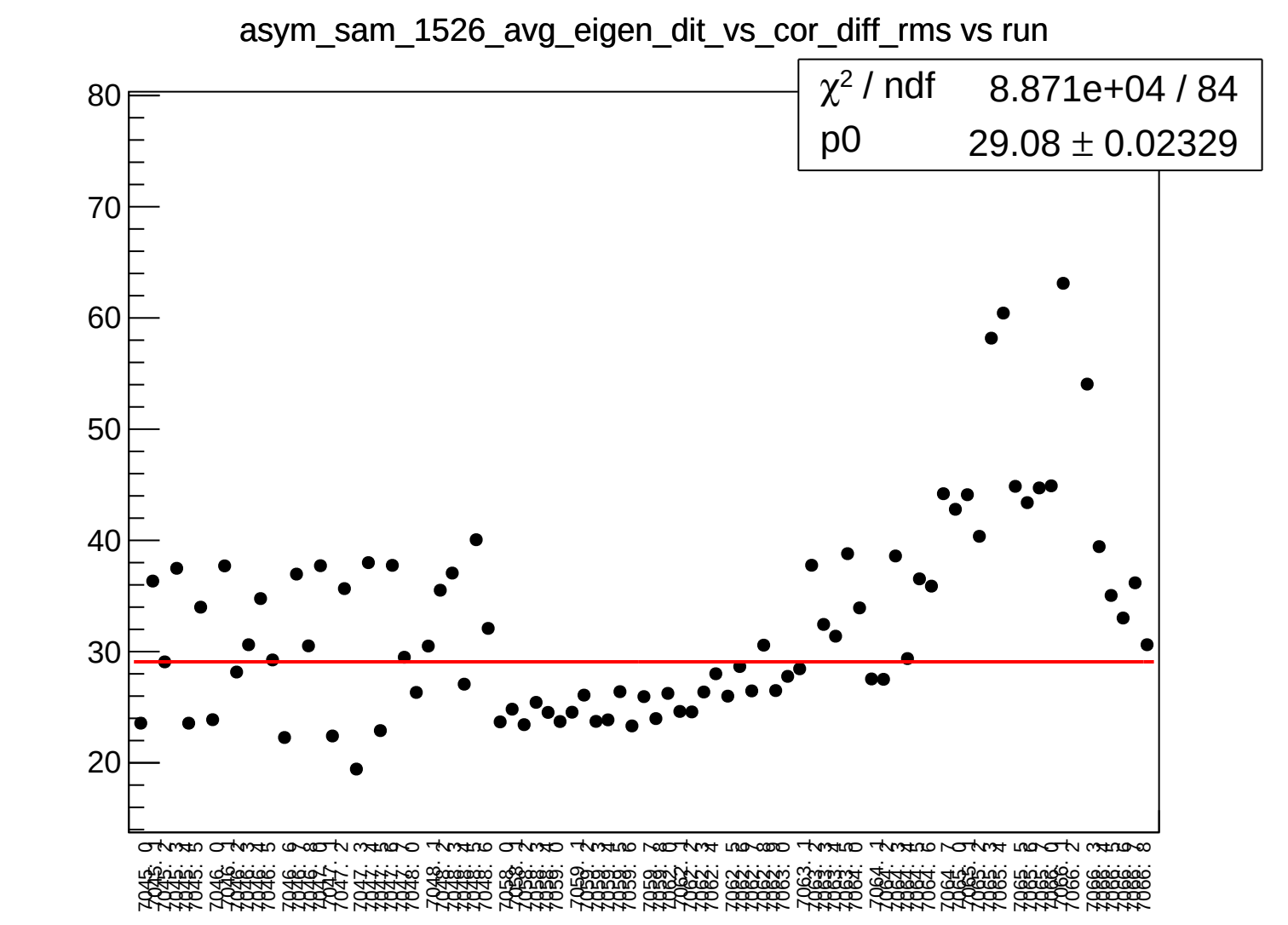

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.29 / 84
p0 2.688e−06 ± 2.472e−06
pull
Entries 85
Mean 208.9
Std Dev 0

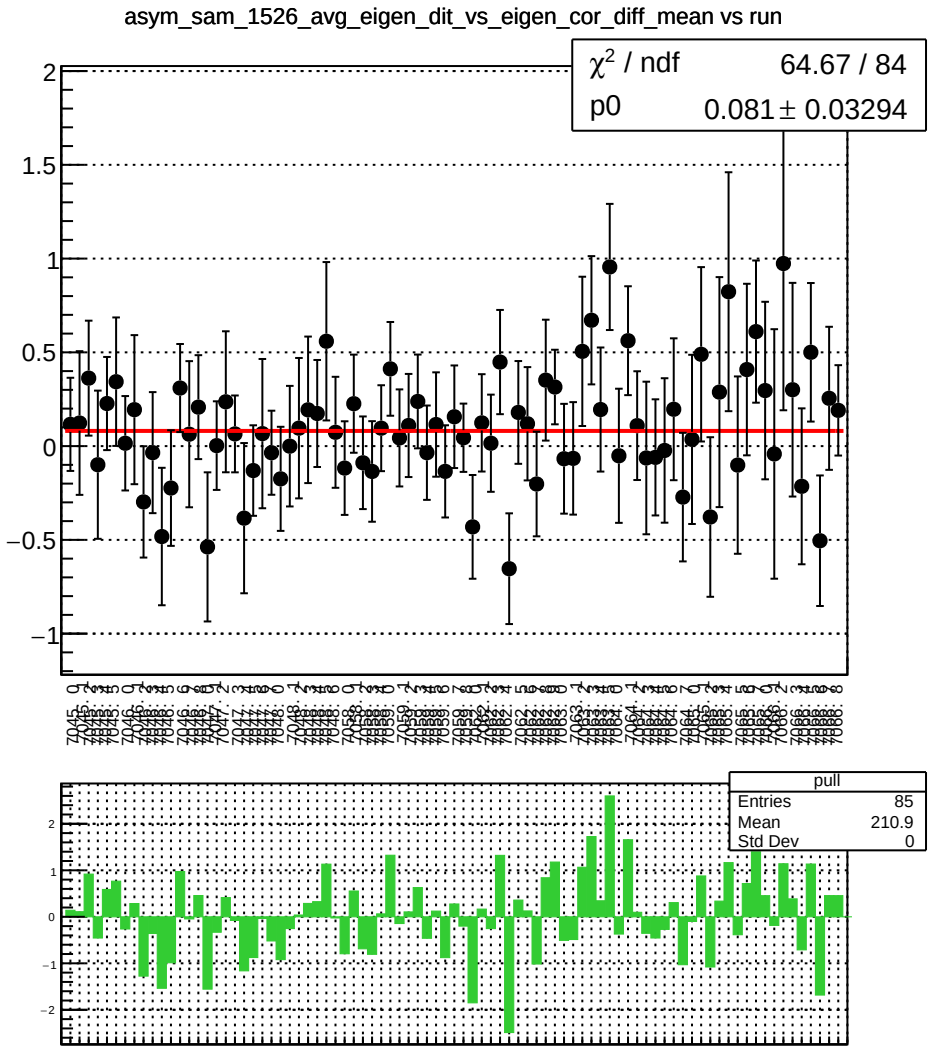

pull1D
Entries 85
Mean 0.04617
Std Dev 0.9708

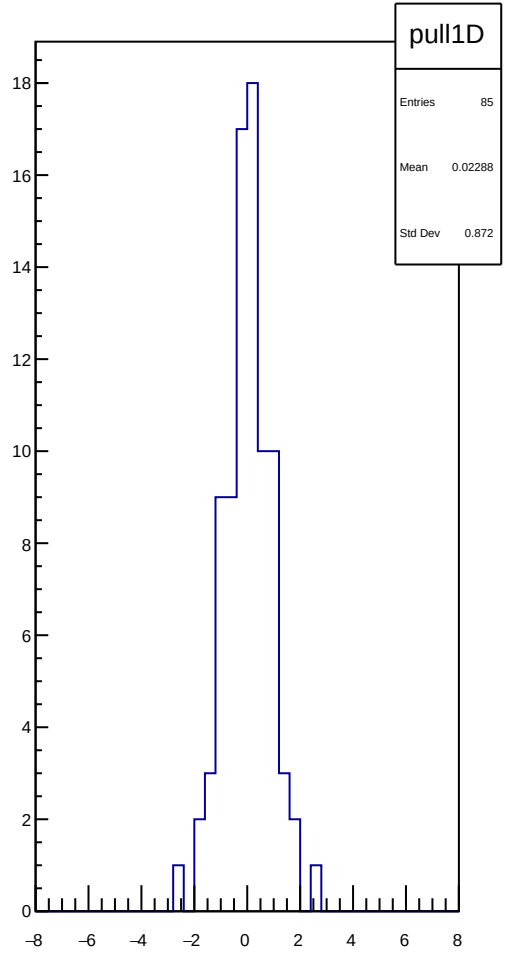

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.308e+04 / 84
p0 0.002221 ± 1.748e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

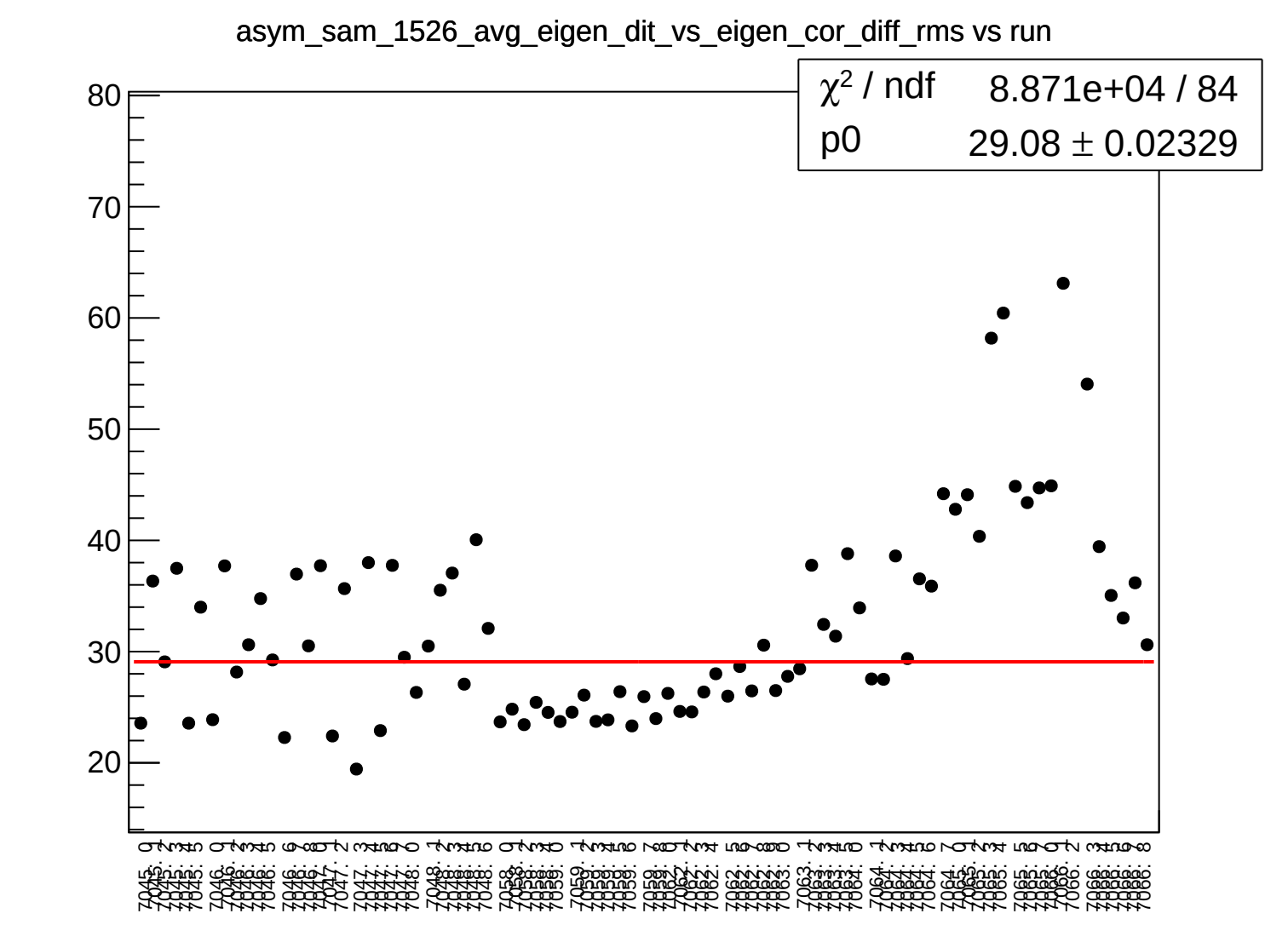

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.67 / 84
p0 0.081 ± 0.03294
pull
Entries 85
Mean 210.9
Std Dev 0

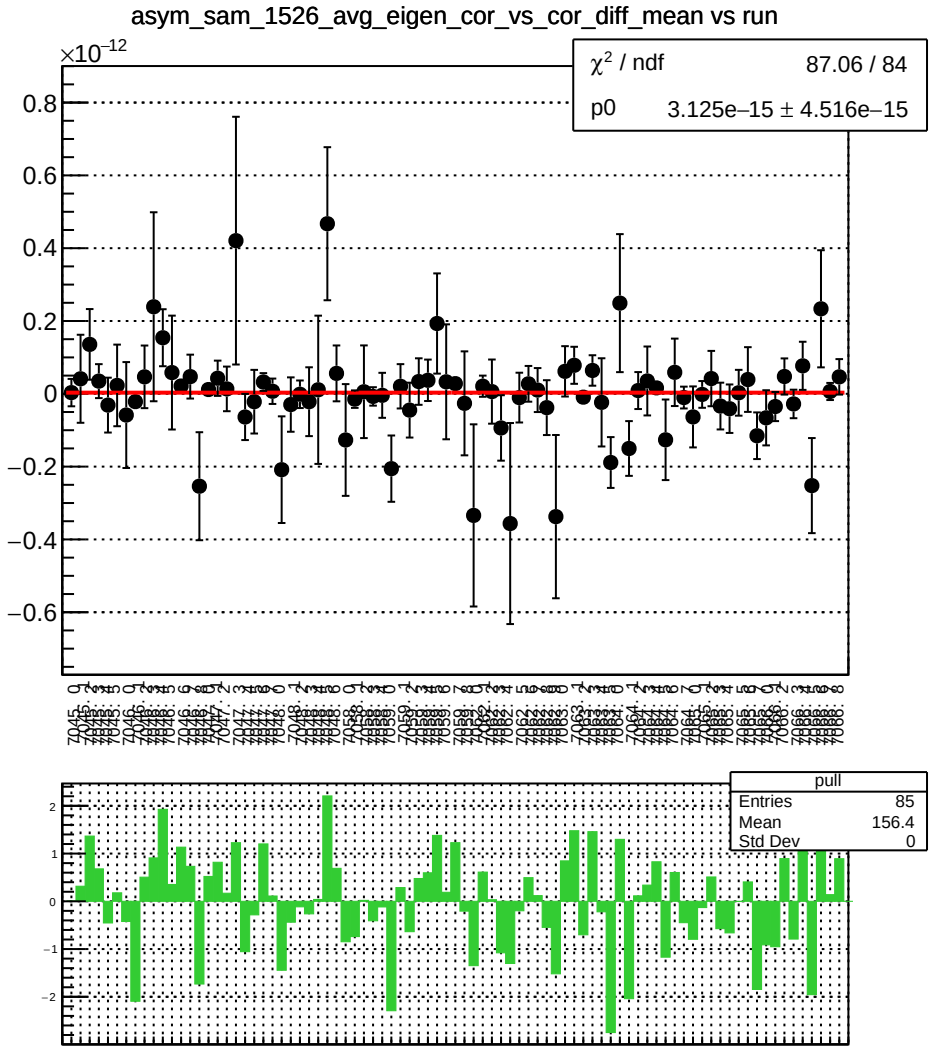

pull1D
Entries 85
Mean 0.02288
Std Dev 0.872

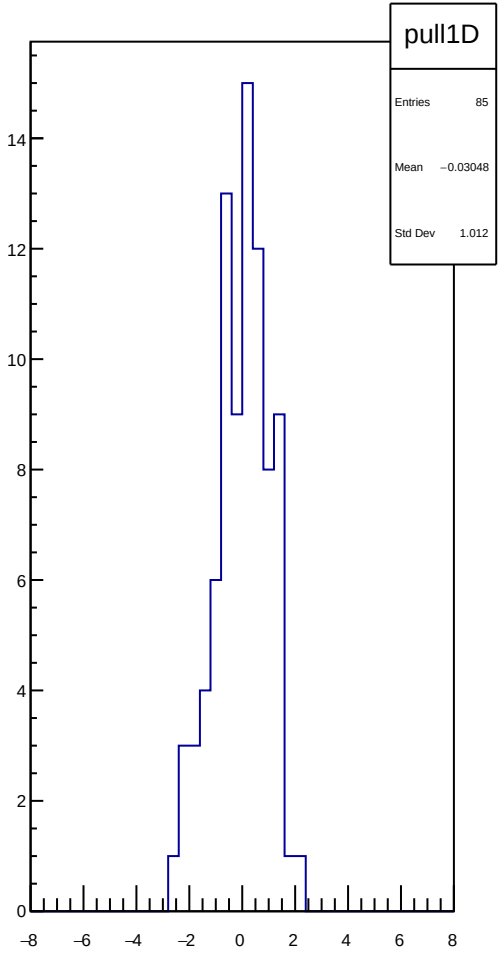

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.871e+04 / 84
p0 29.08 ± 0.02329
80
70
60
50
40
30
20

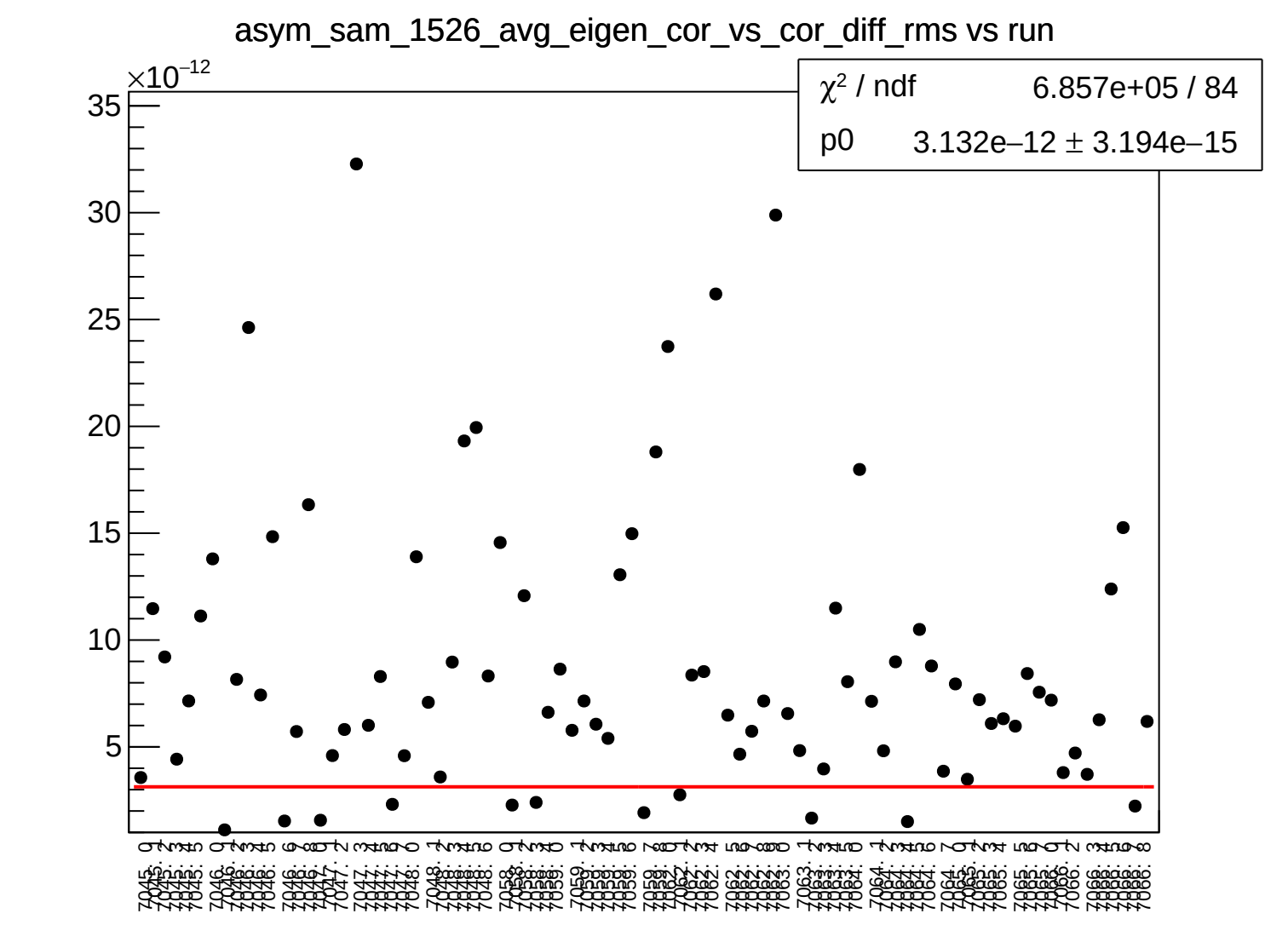

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.67 / 84
p0 0.081 ± 0.03294
pull
Entries 85
Mean 210.9
Std Dev 0

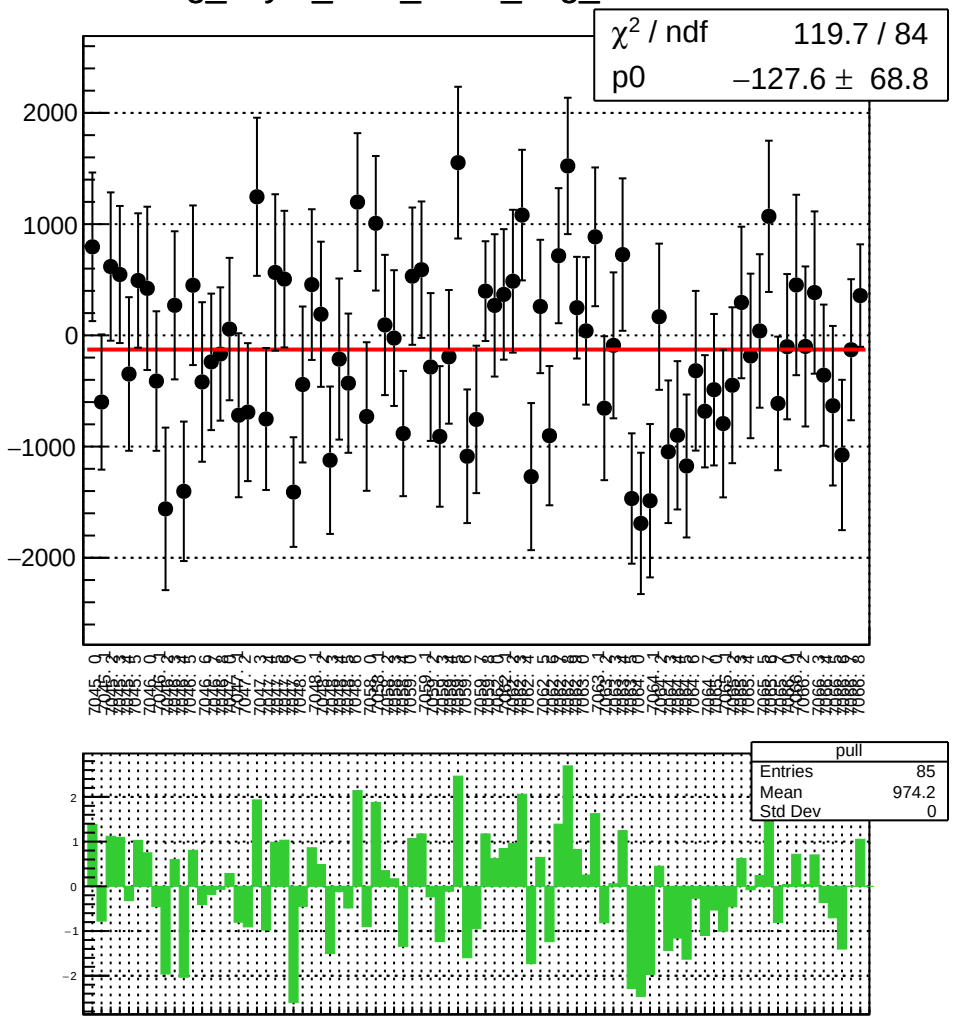

pull1D
Entries 85
Mean 0.02288
Std Dev 0.872

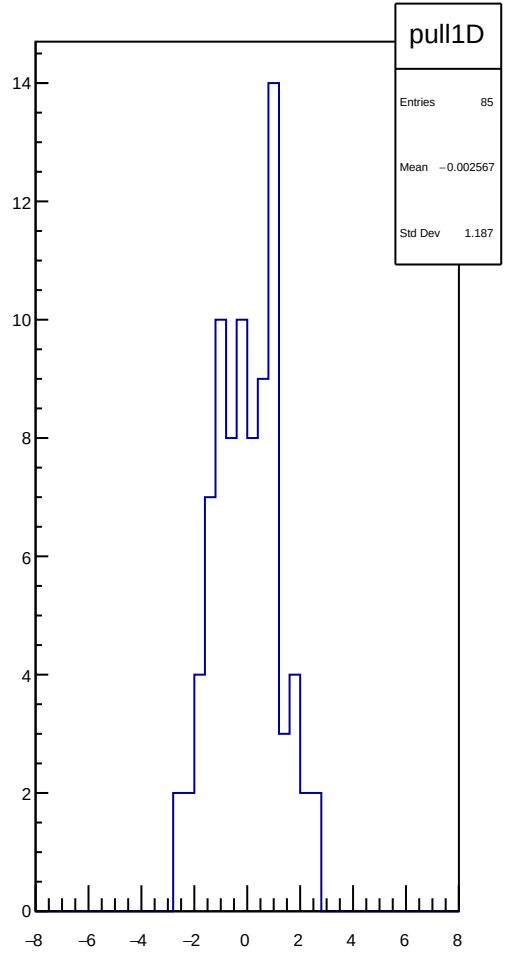

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.871e+04 / 84
p0 29.08 ± 0.02329
80
70
60
50
40
30
20

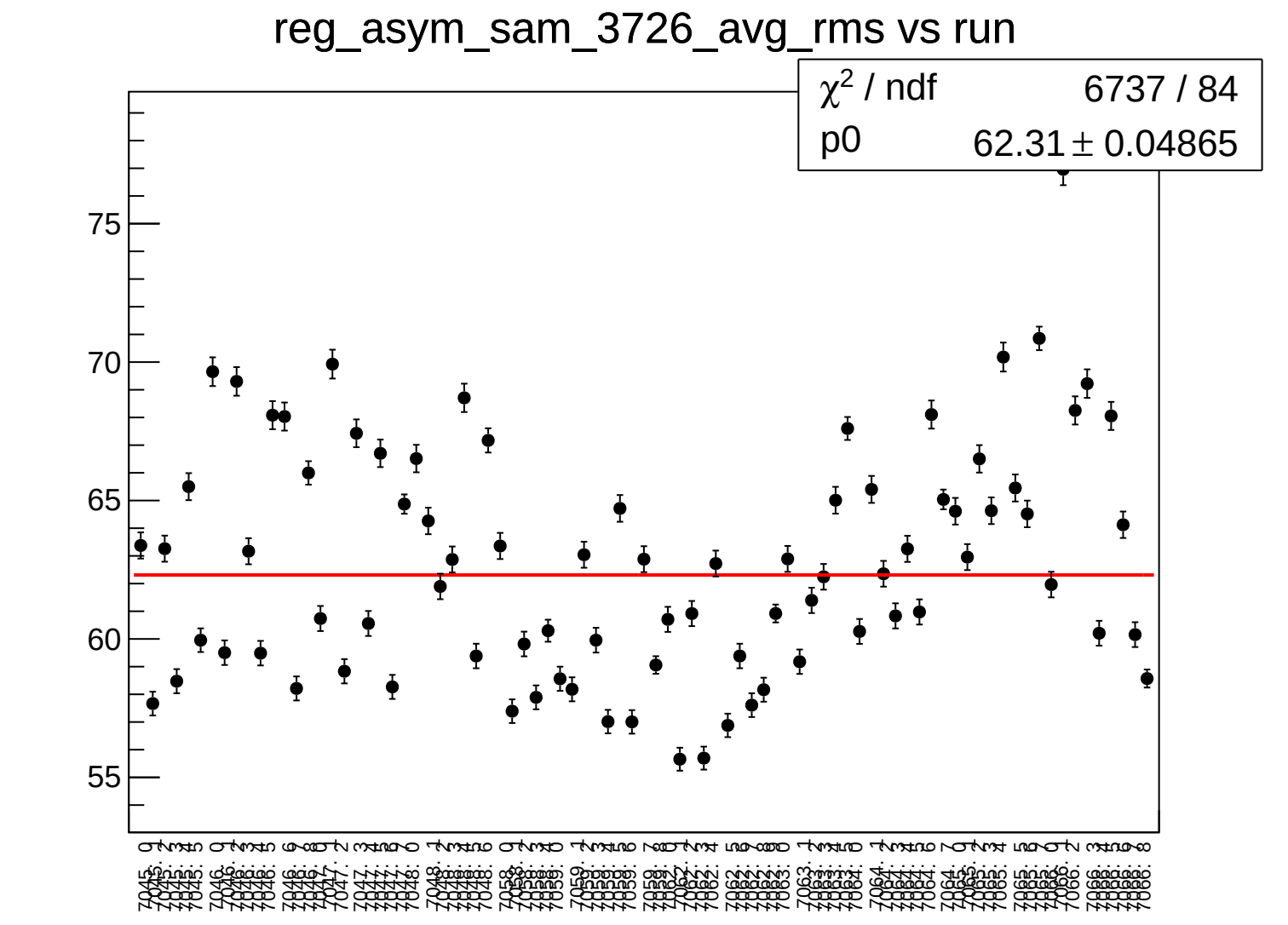

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.06 / 84
p0 3.125e−15 ± 4.516e−15
pull
Entries 85
Mean 156.4
Std Dev 0

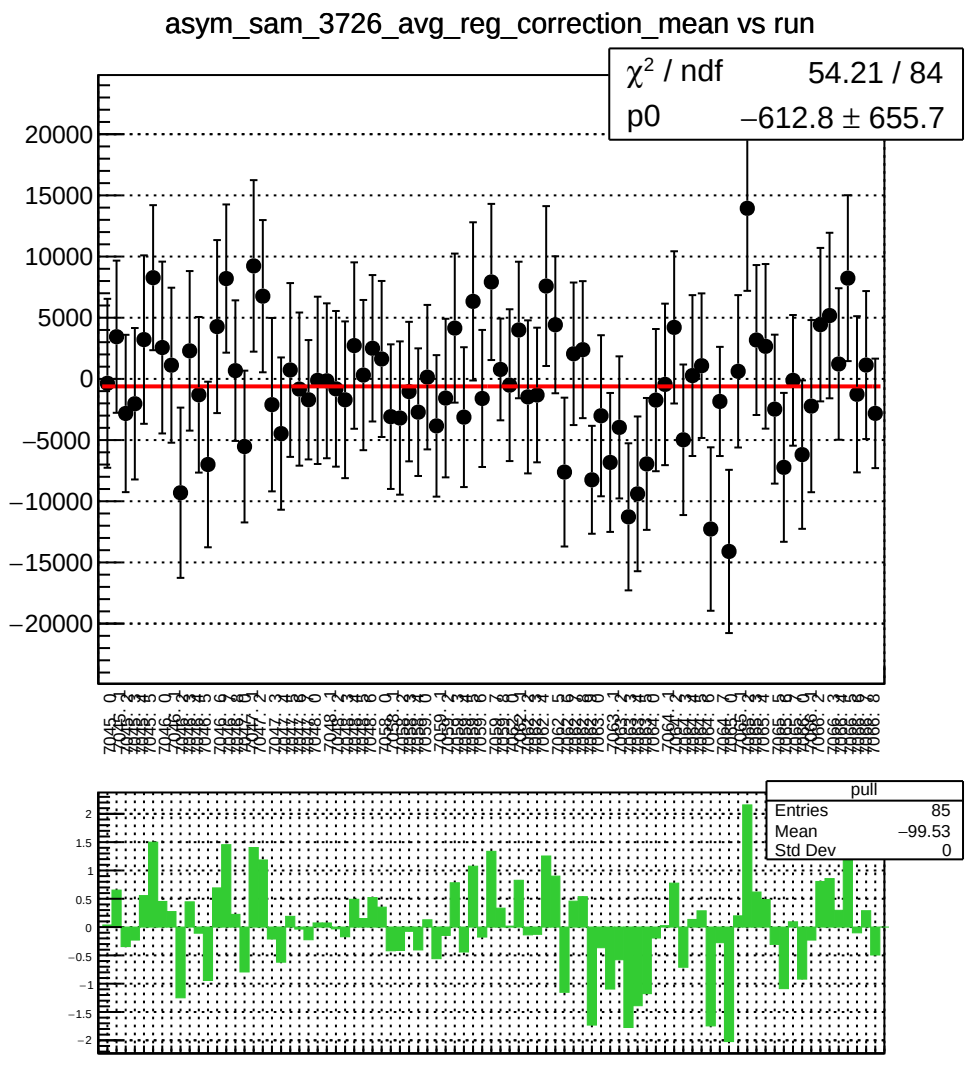

pull1D
Entries 85
Mean −0.03048
Std Dev 1.012

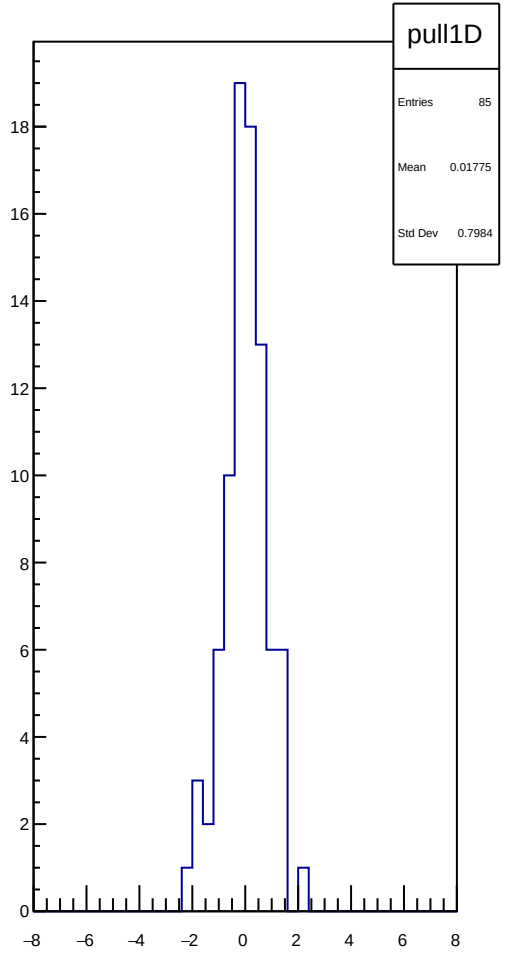

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.857e+05 / 84
p0 3.132e−12 ± 3.194e−15
35
30
25
20
15
10
5

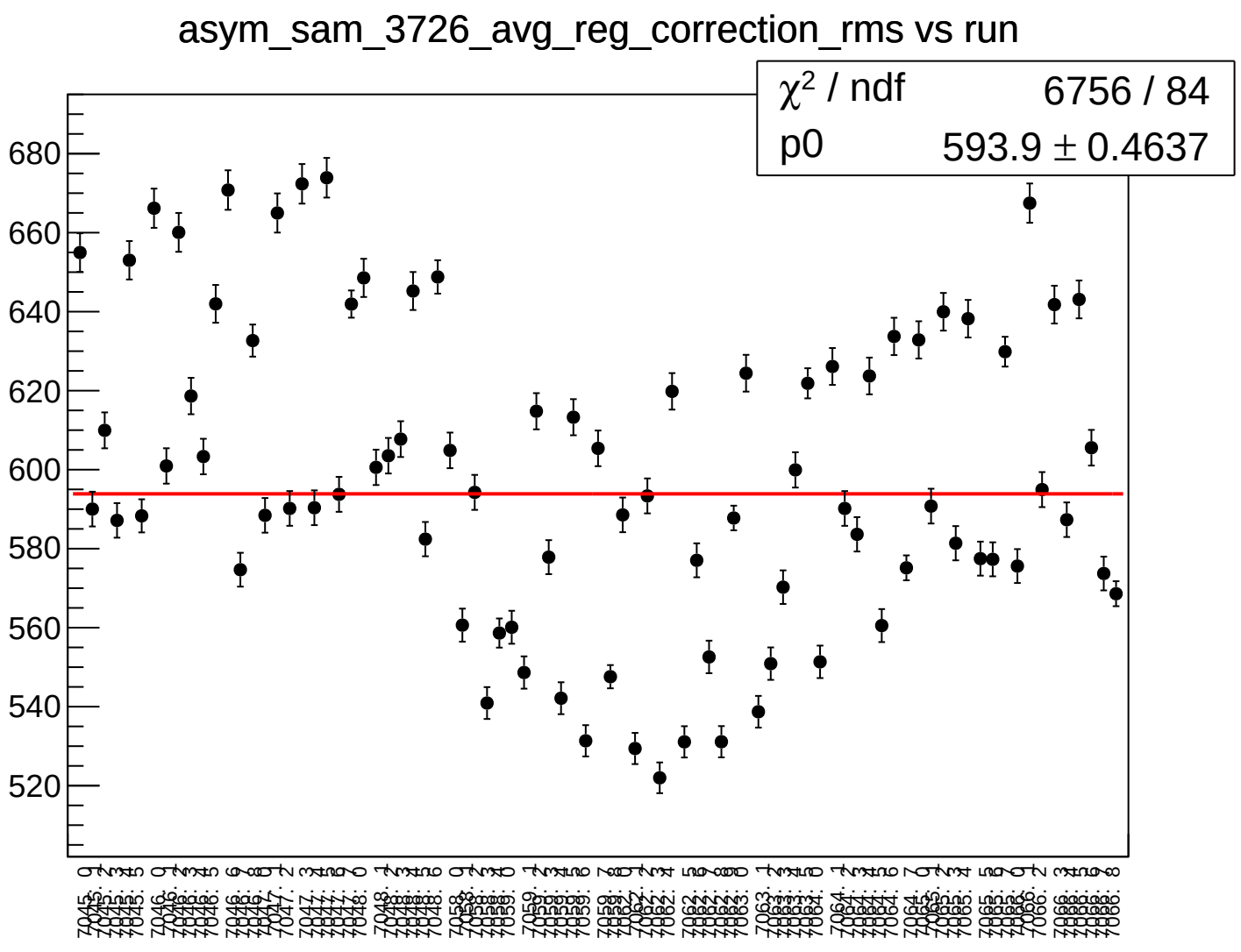

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 119.7 / 84
p0 −127.6 ± 68.8
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 974.2
Std Dev 0
2
1
0
−1
−2

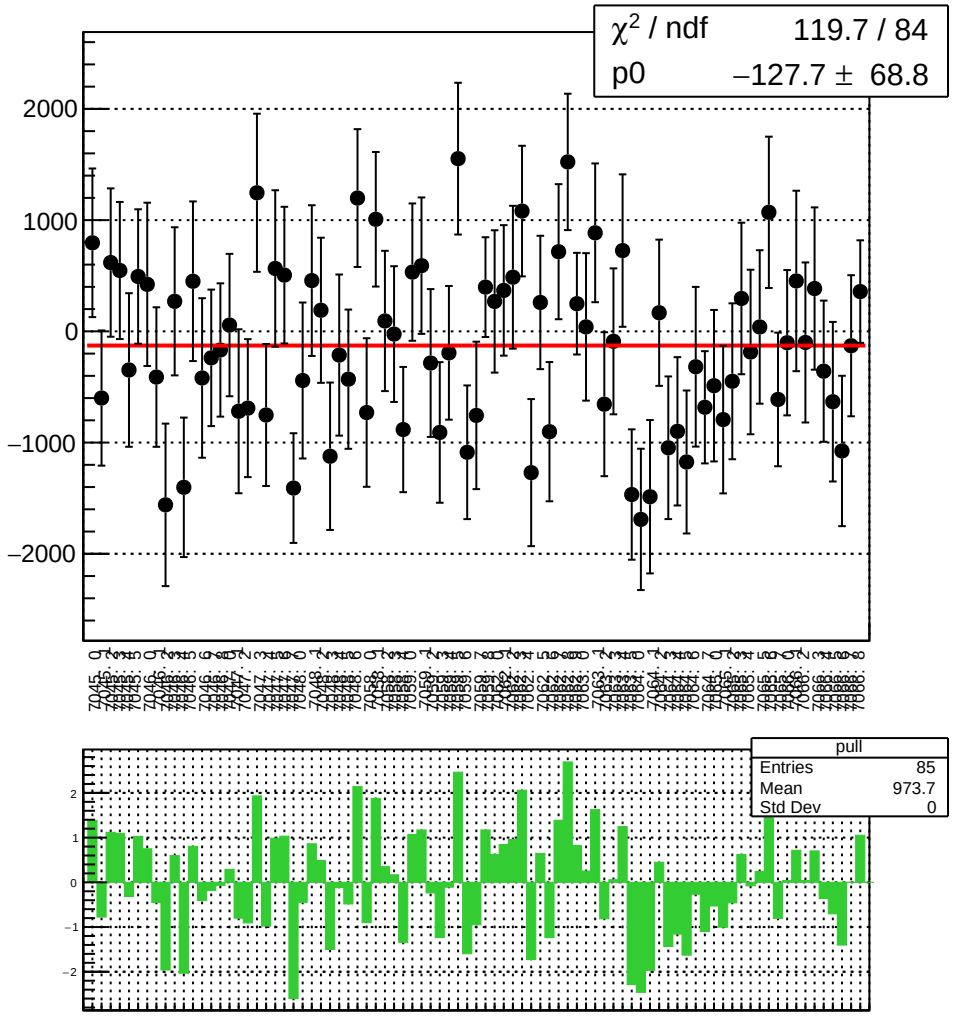

pull1D
Entries 85
Mean −0.002567
Std Dev 1.187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

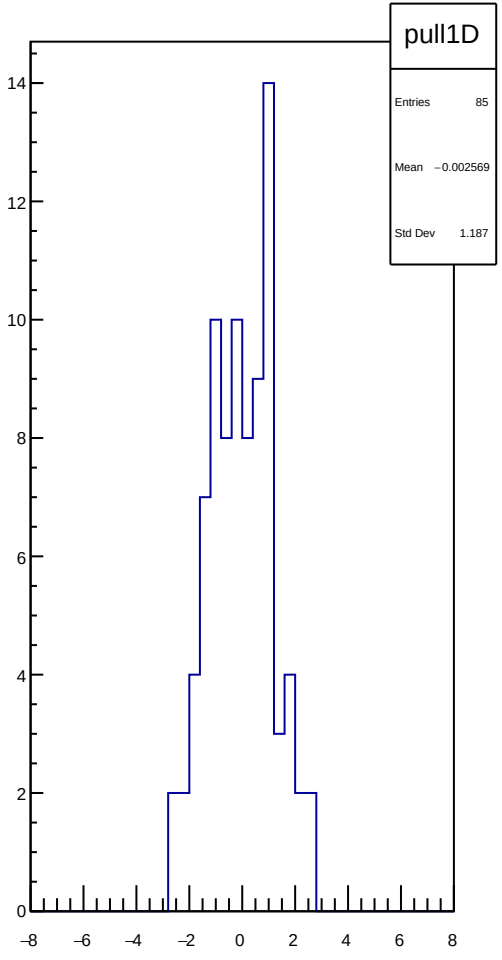

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6737 / 84
p0 62.31 ± 0.04865
75
70
65
60
55

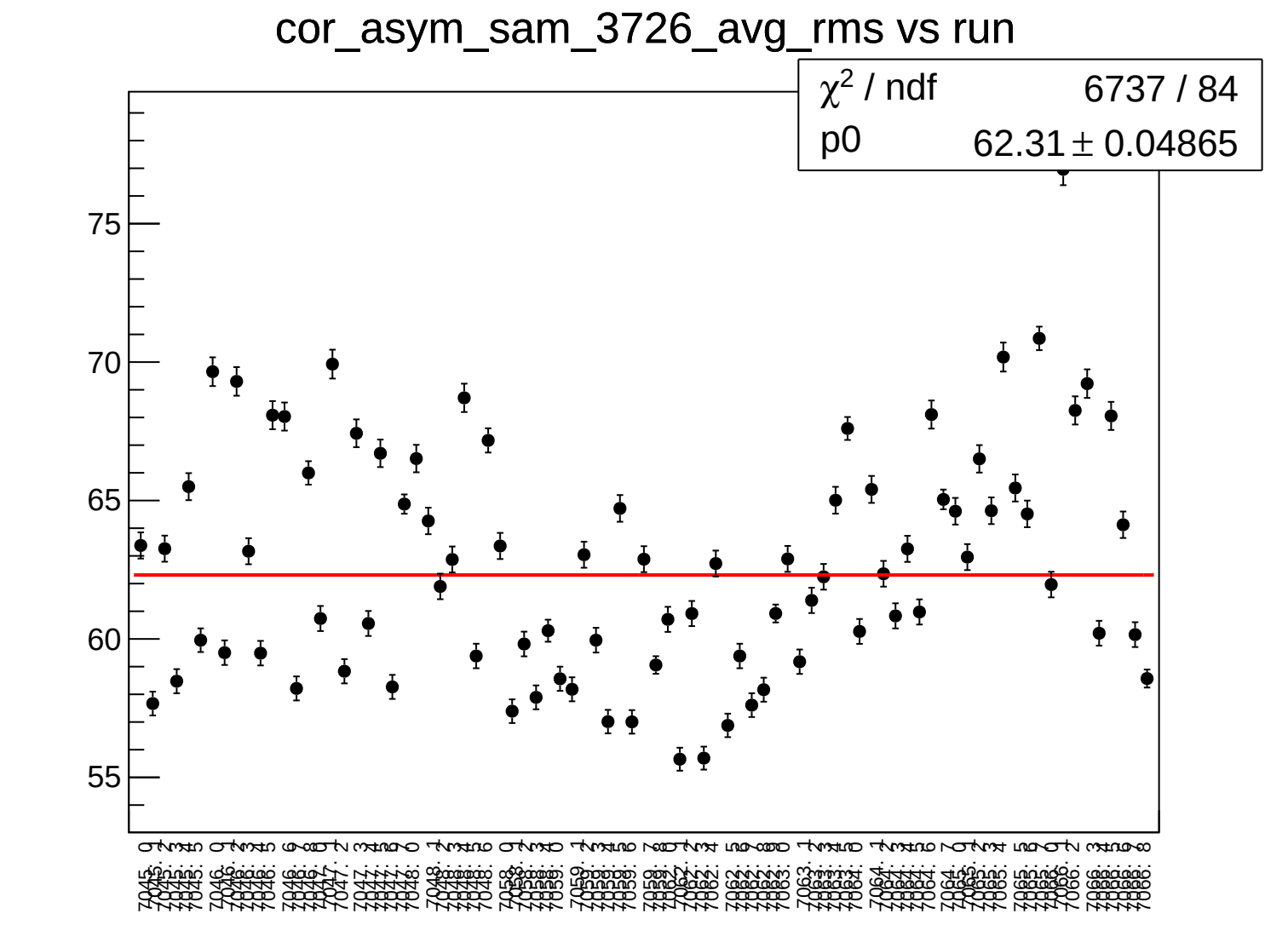

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 54.21 / 84
p0 −612.8 ± 655.7
pull
Entries 85
Mean −99.53
Std Dev 0

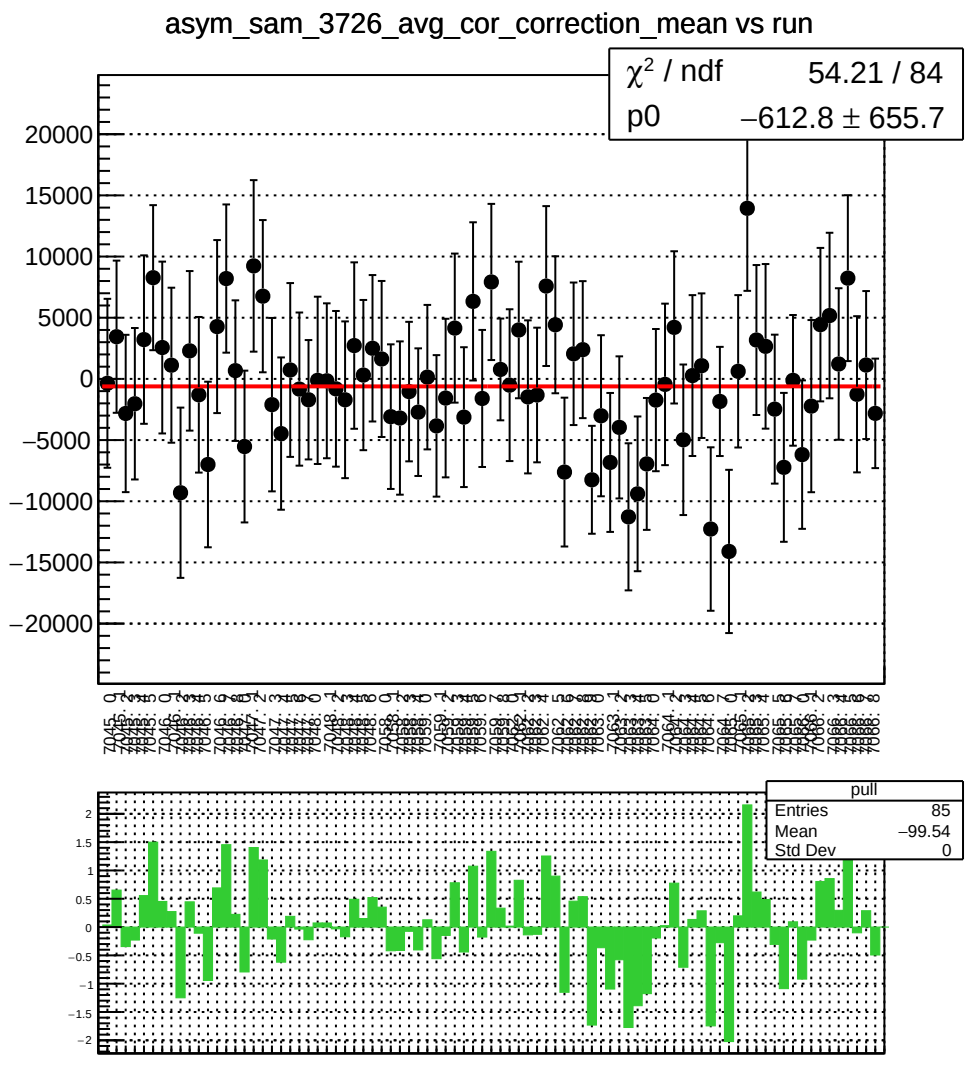

pull1D
Entries 85
Mean 0.01775
Std Dev 0.7984

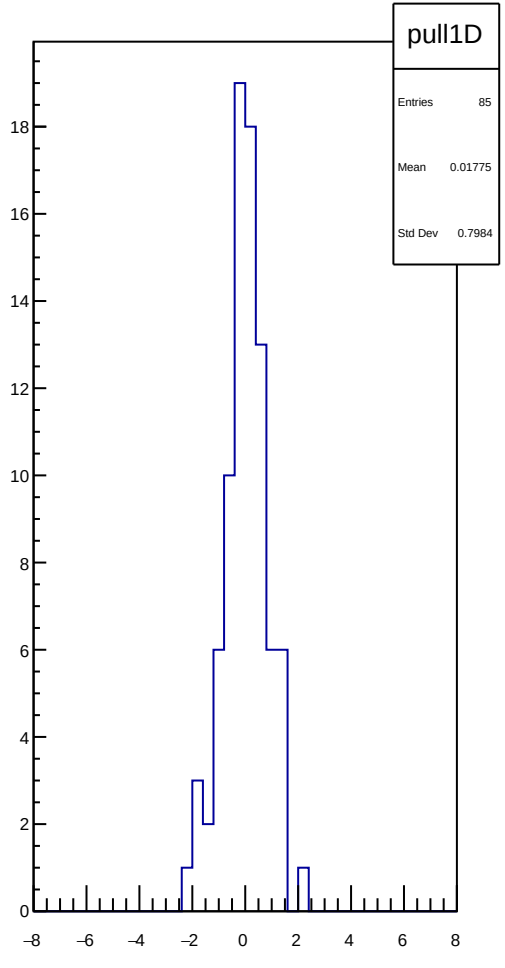

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6756 / 84
p0 593.9 ± 0.4637
680
660
640
620
600
580
560
540
520

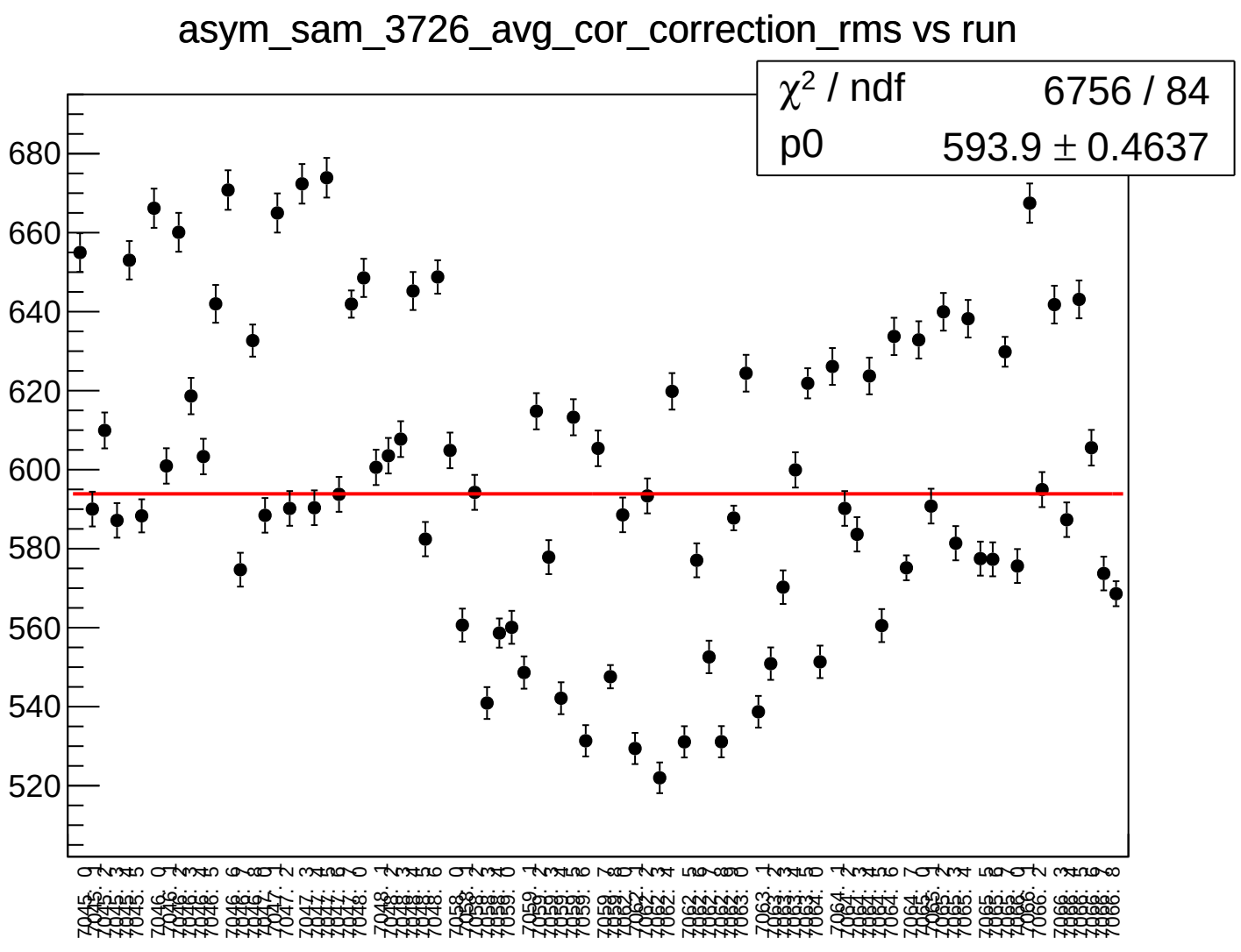

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 119.7 / 84
p0 −127.7 ± 68.8
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 973.7
Std Dev 0
2
1
0
−1
−2

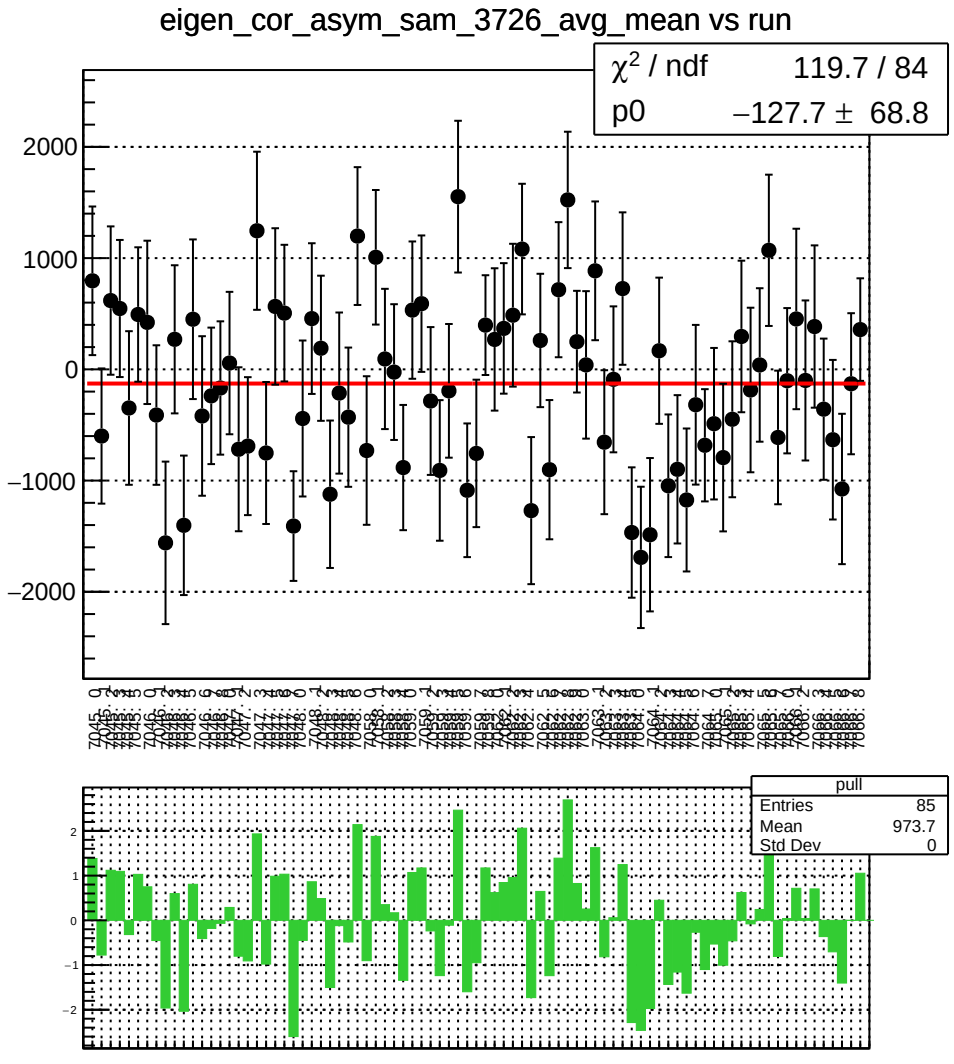

pull1D
Entries 85
Mean −0.002569
Std Dev 1.187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

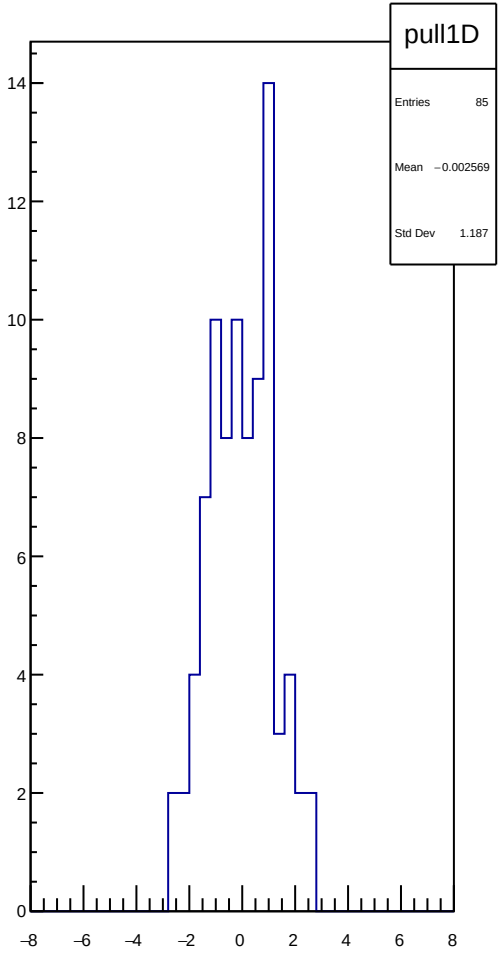

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6737 / 84
p0 62.31 ± 0.04865
75
70
65
60
55

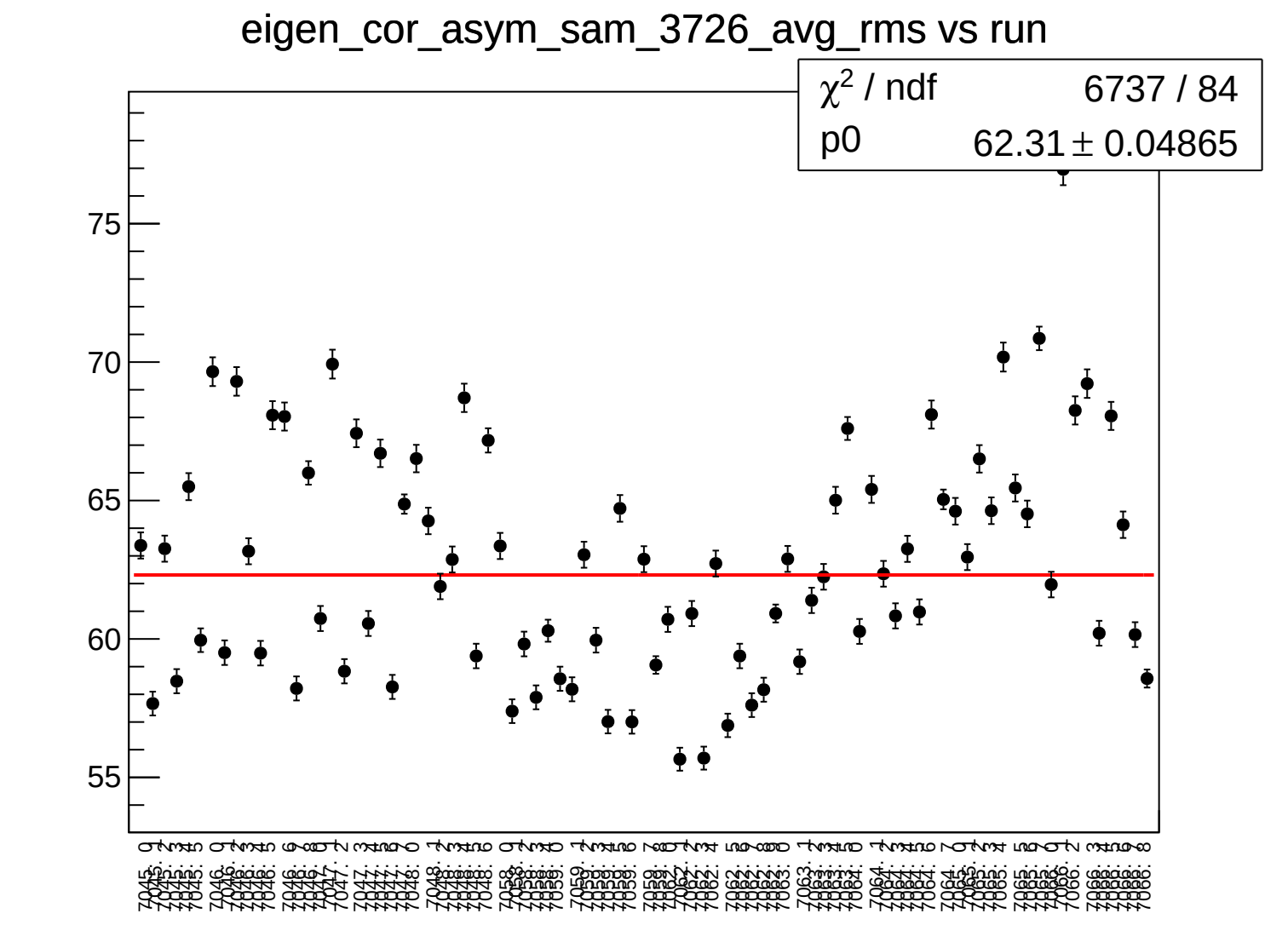

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 54.21 / 84
p0 −612.8 ± 655.7
pull
Entries 85
Mean −99.54
Std Dev 0

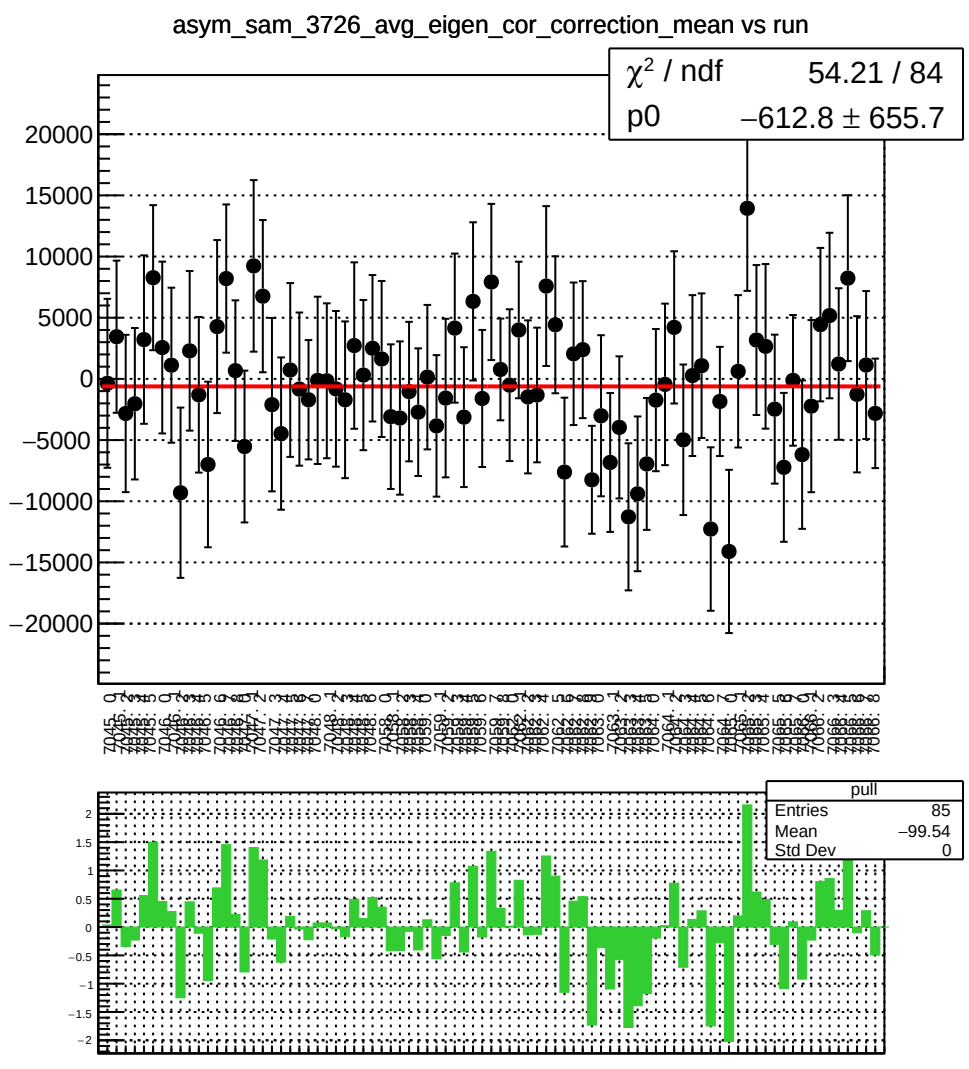

pull1D
Entries 85
Mean 0.01775
Std Dev 0.7984

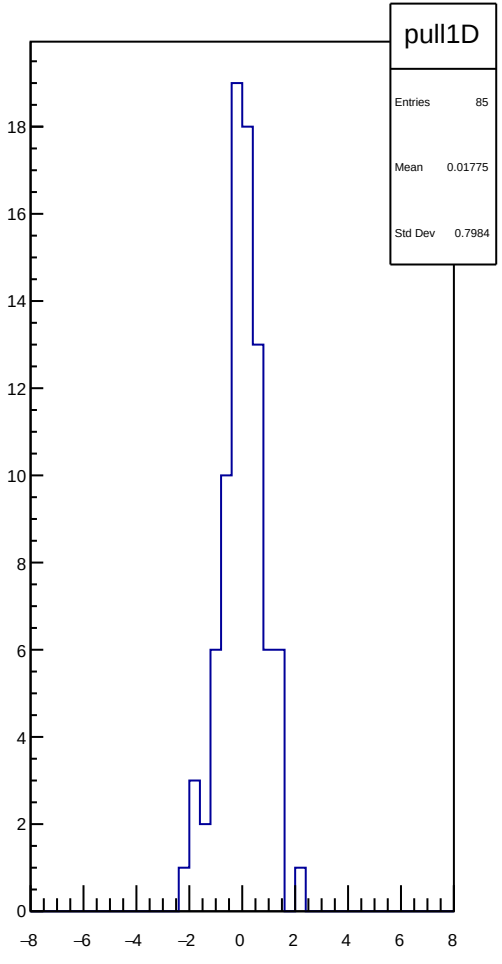

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 6756 / 84
p0 593.9 ± 0.4637
680
660
640
620
600
580
560
540
520

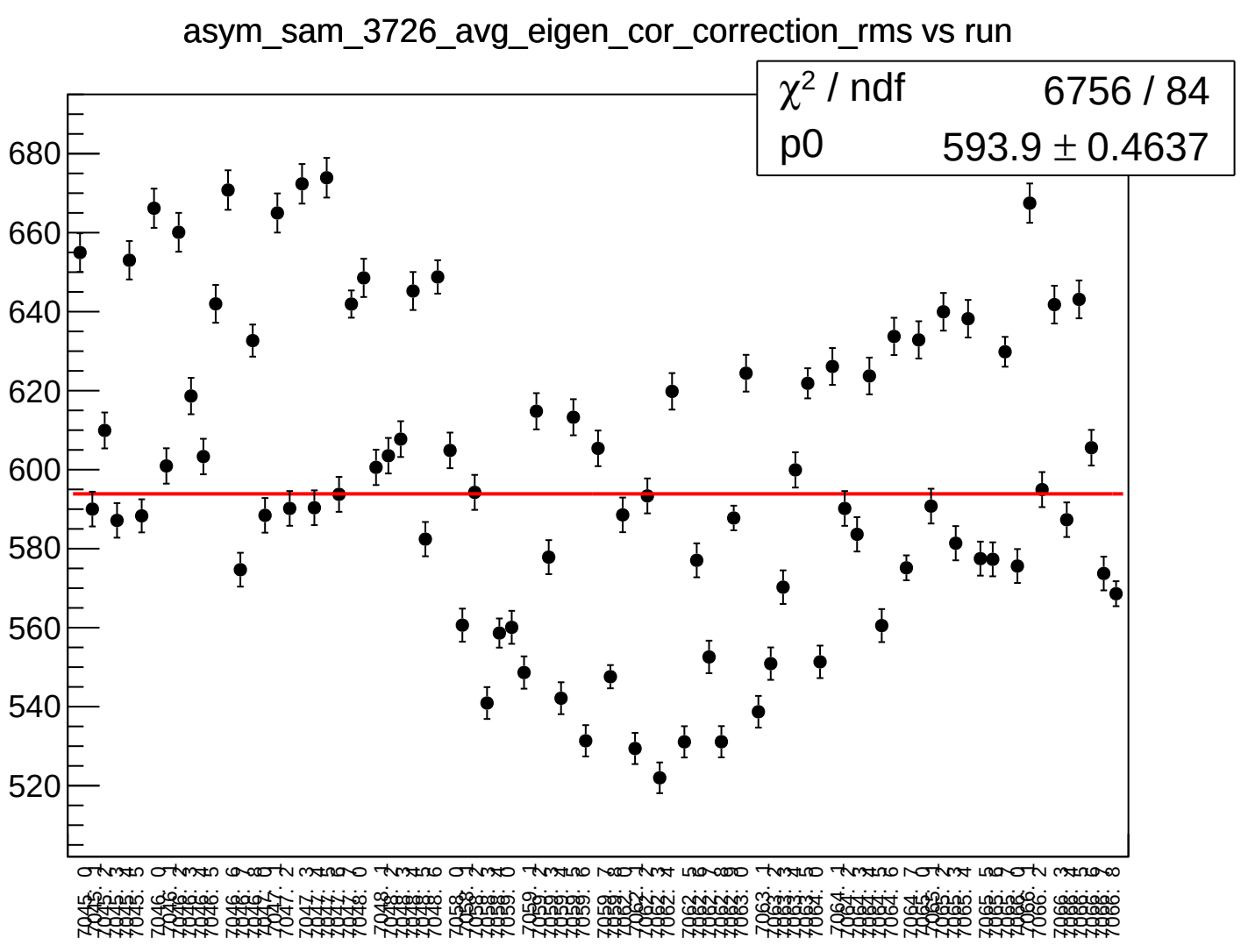

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 119.7 / 84
p0 −127.7 ± 68.8
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 973.7
Std Dev 0
2
1
0
−1
−2

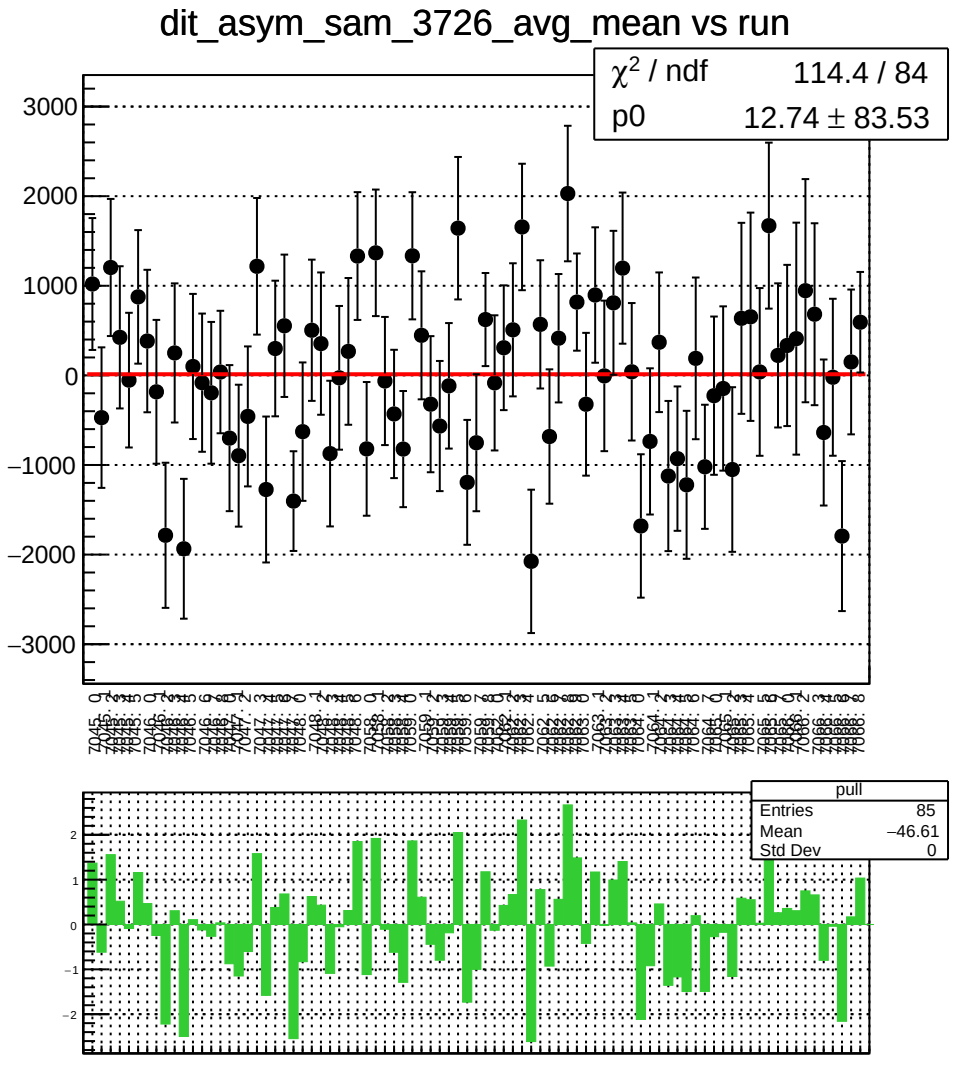

pull1D
Entries 85
Mean −0.002569
Std Dev 1.187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

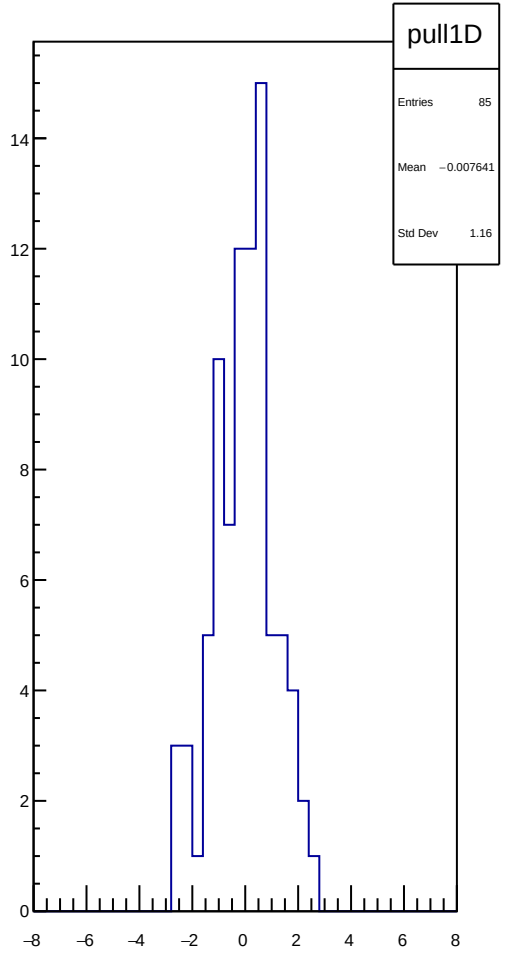

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6737 / 84
p0 62.31 ± 0.04865
75
70
65
60
55

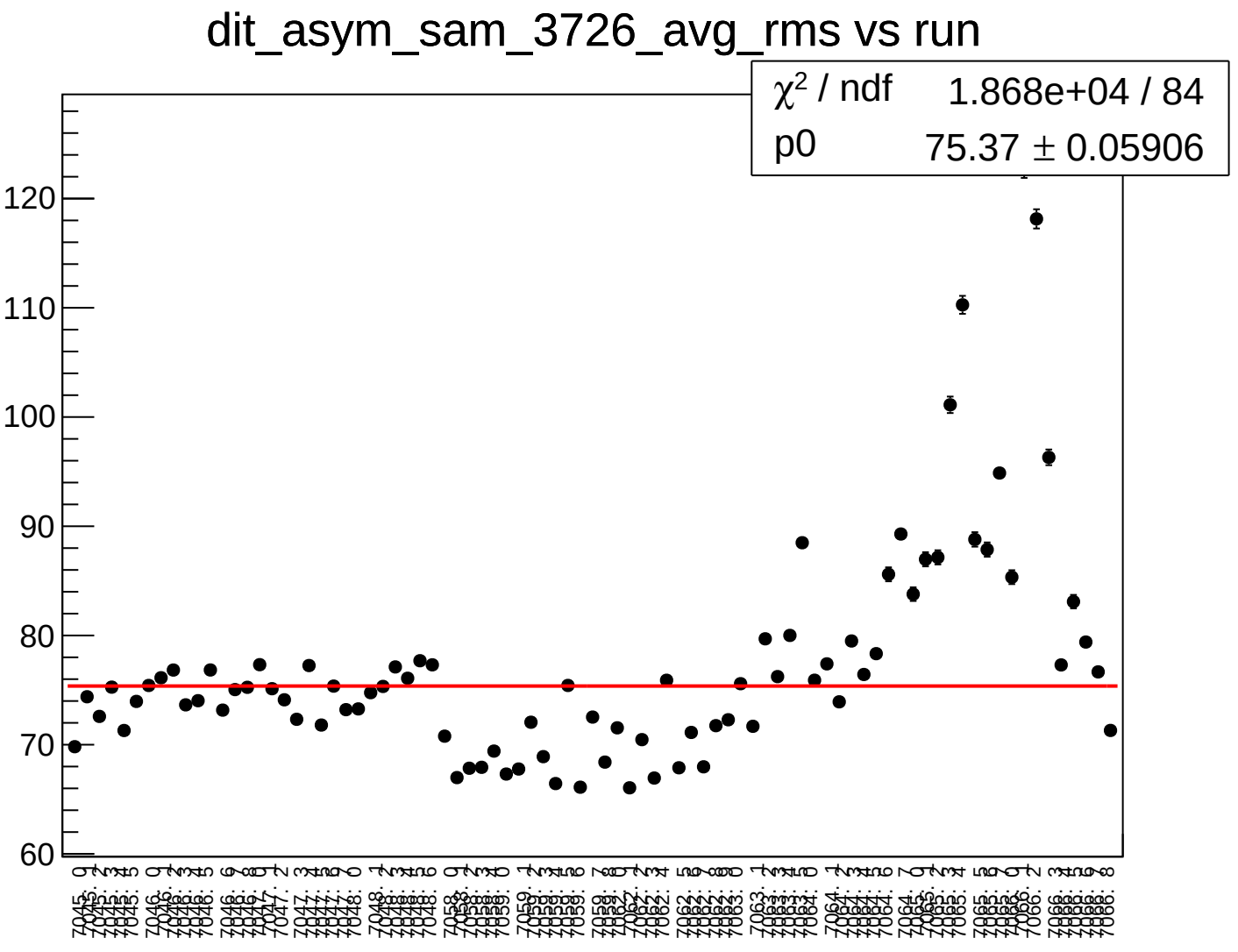

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 54.21 / 84
p0 −612.8 ± 655.7
pull
Entries 85
Mean −99.54
Std Dev 0

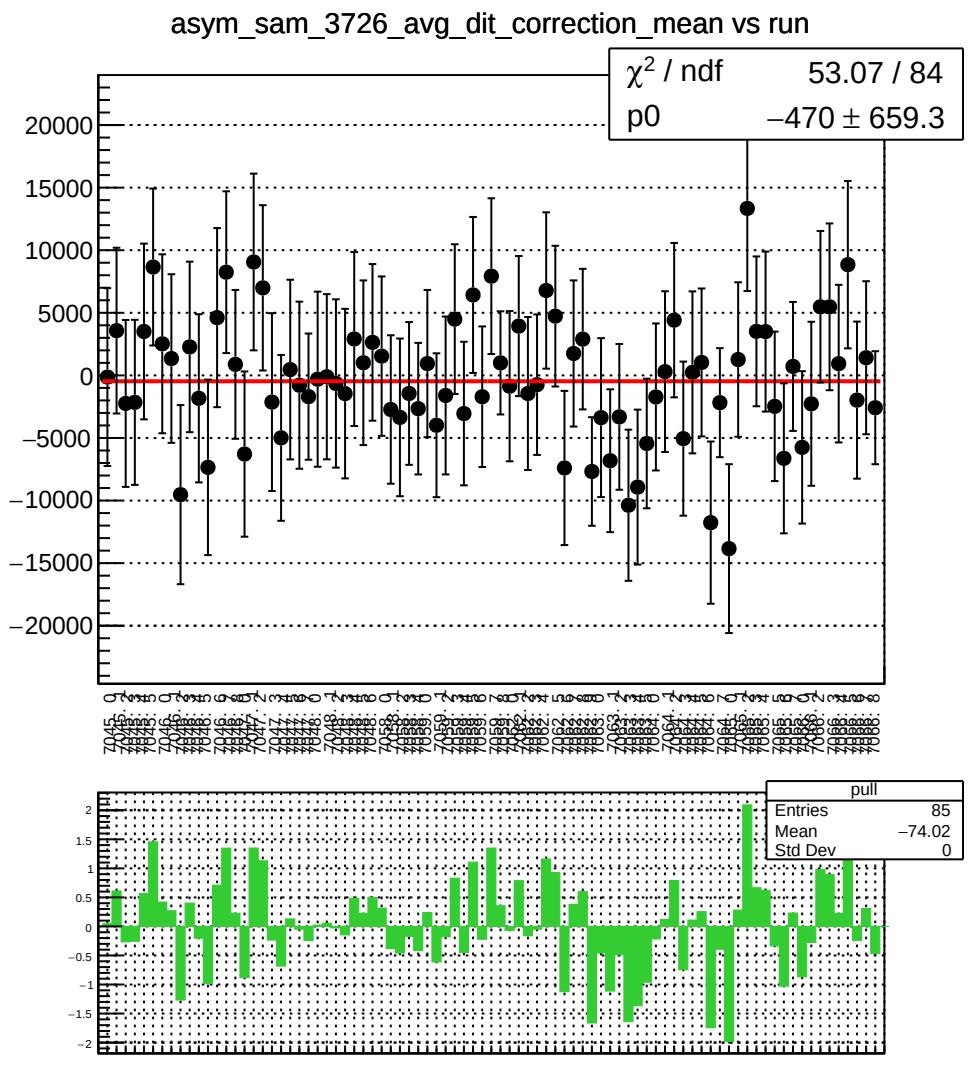

pull1D
Entries 85
Mean 0.01775
Std Dev 0.7984

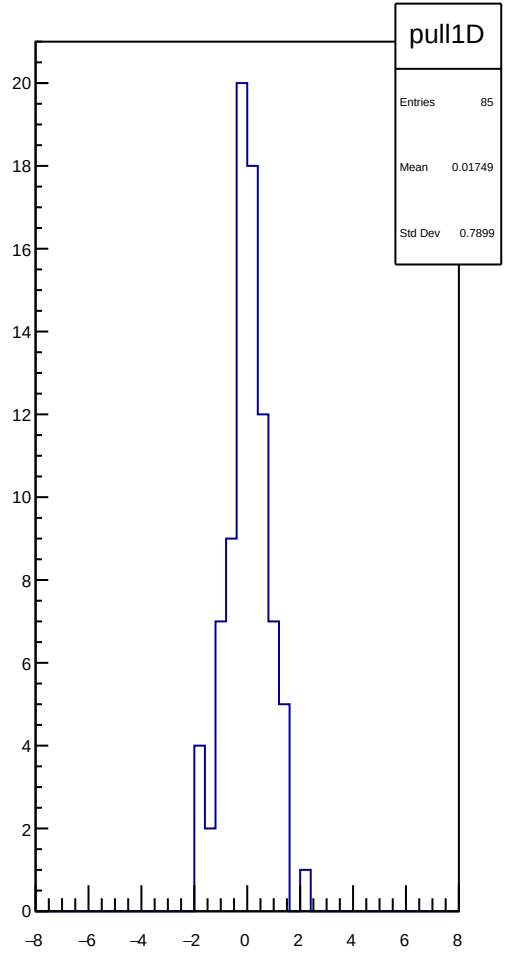

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 6756 / 84
p0 593.9 ± 0.4637
680
660
640
620
600
580
560
540
520

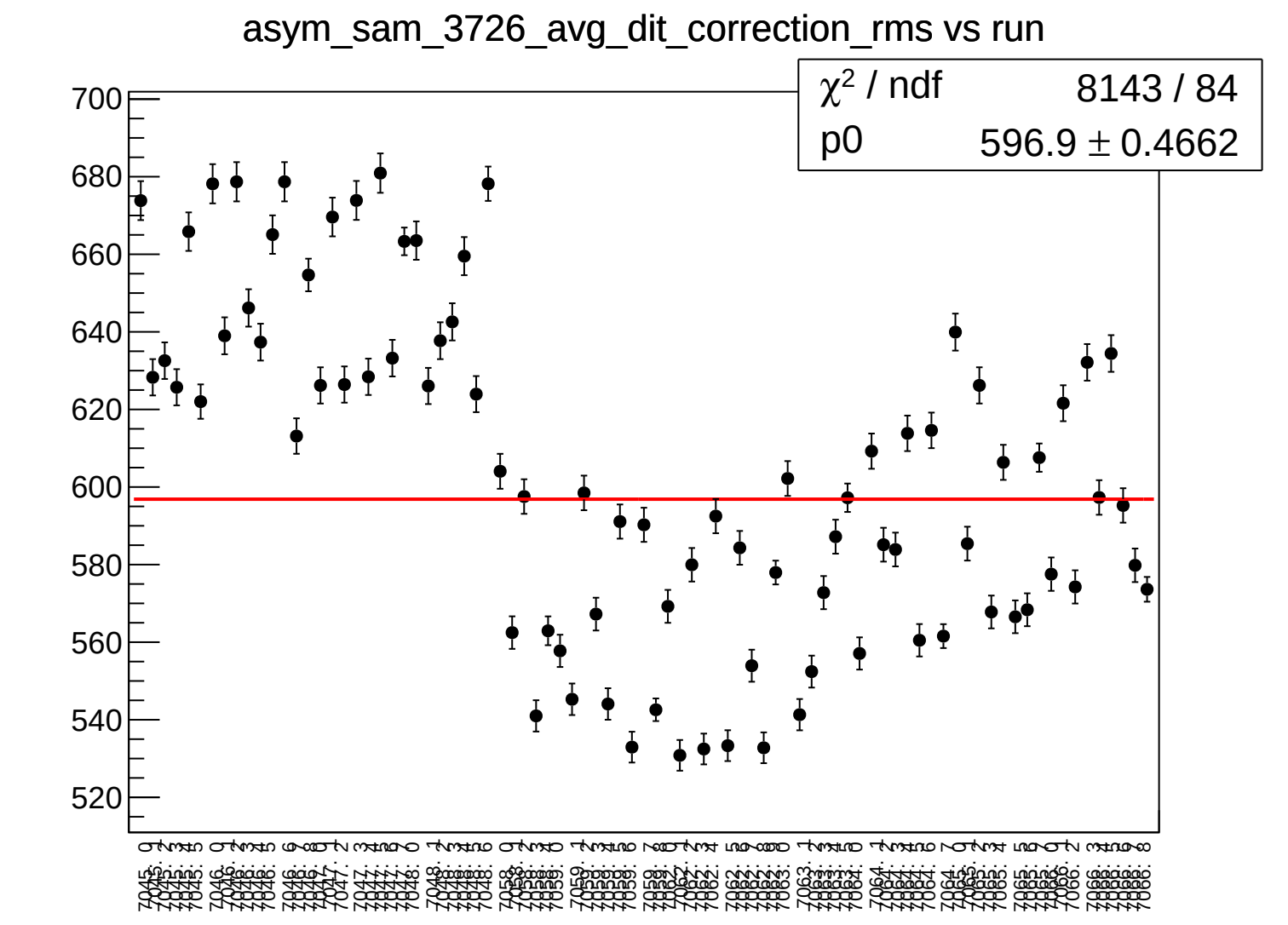

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 114.4 / 84
p0 12.74 ± 83.53
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −46.61
Std Dev 0
2
1
0
−1
−2

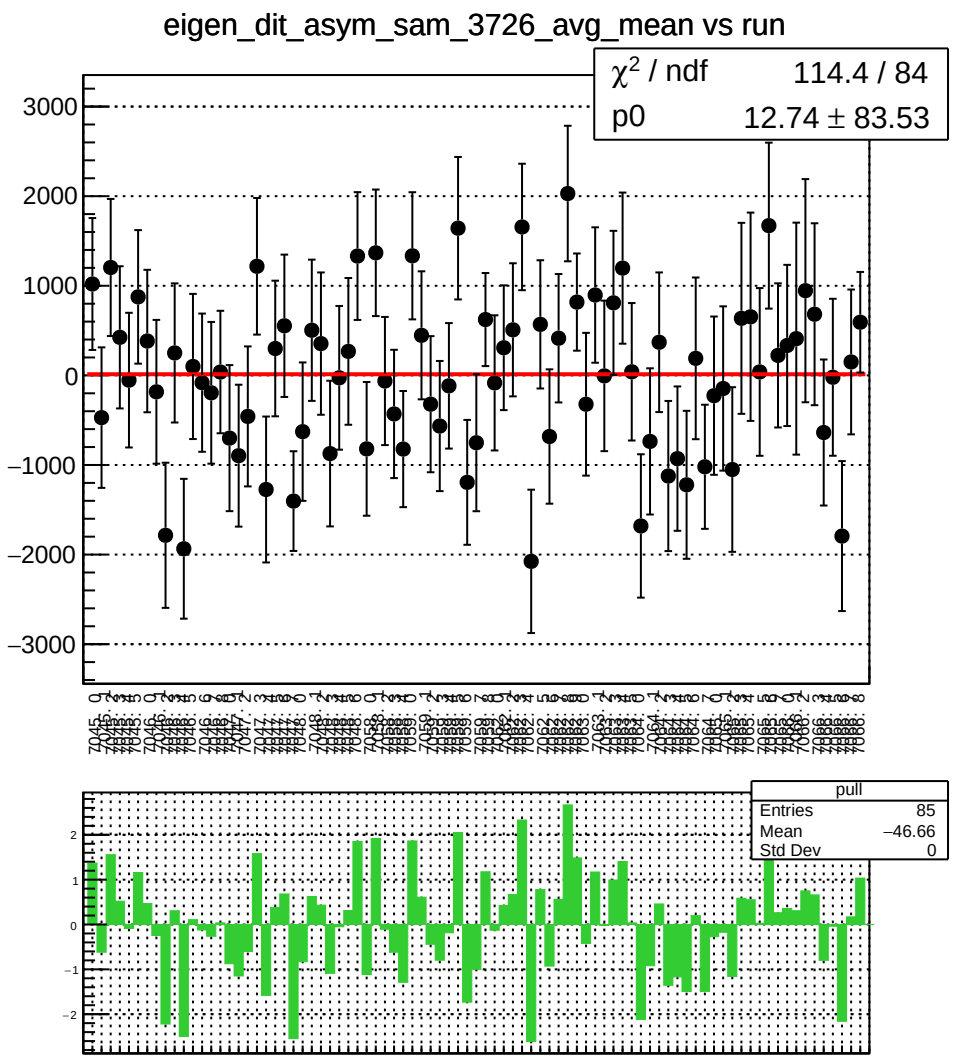

pull1D
Entries 85
Mean −0.007641
Std Dev 1.16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

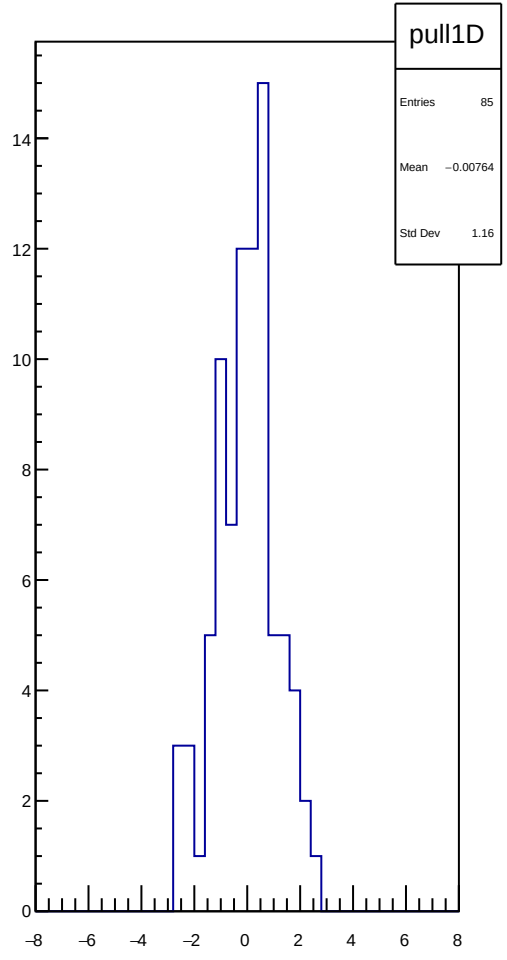

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.868e+04 / 84
p0 75.37 ± 0.05906
120
110
100
90
80
70
60

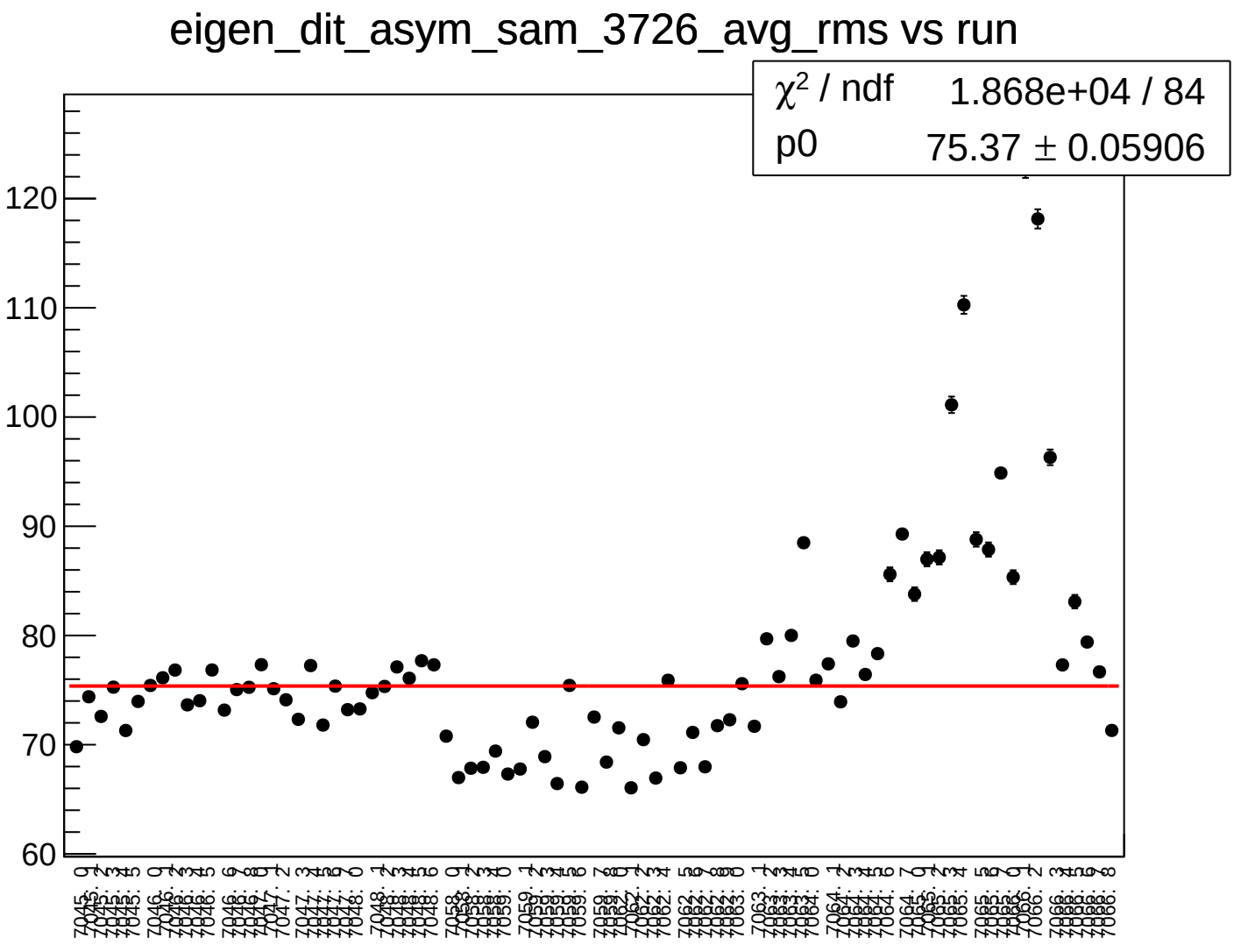

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 53.07 / 84
p0 −470 ± 659.3
pull
Entries 85
Mean −74.02
Std Dev 0

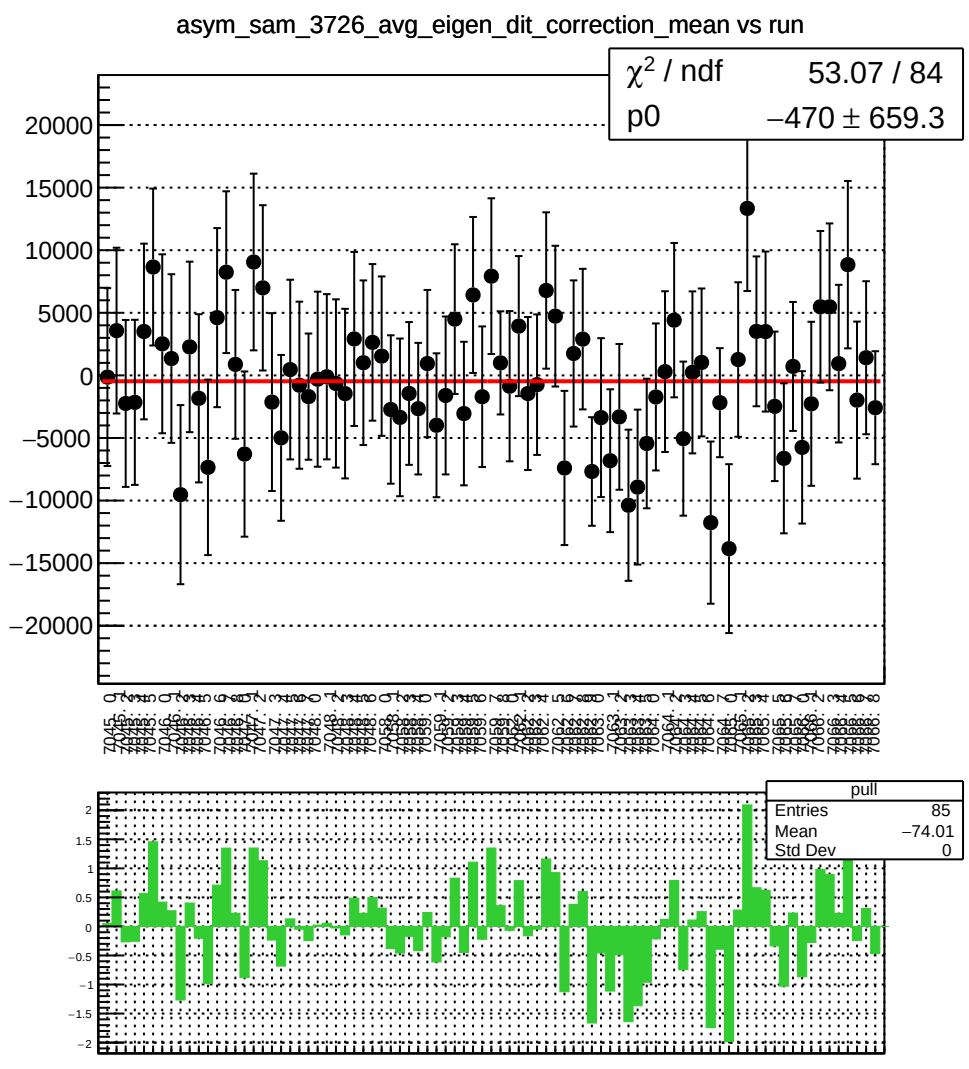

pull1D
Entries 85
Mean 0.01749
Std Dev 0.7899

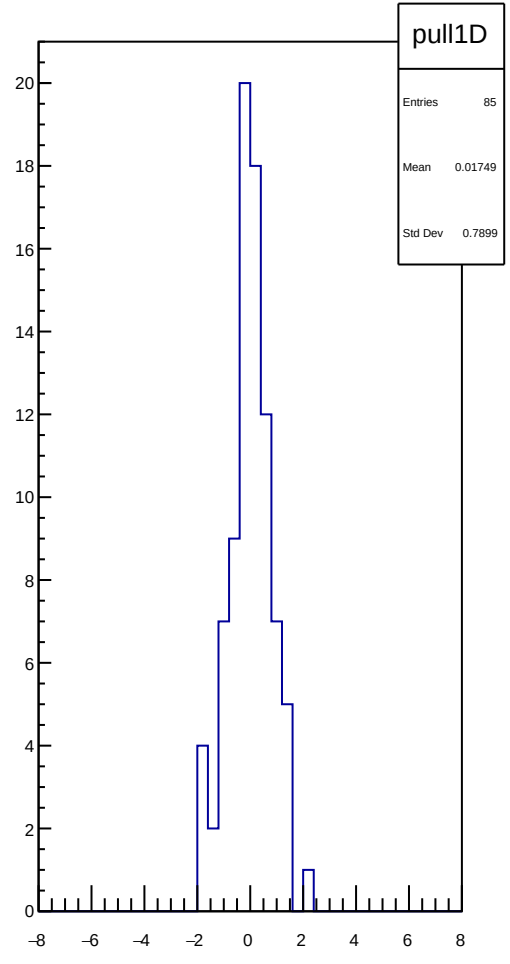

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 8143 / 84
p0 596.9 ± 0.4662
700
680
660
640
620
600
580
560
540
520

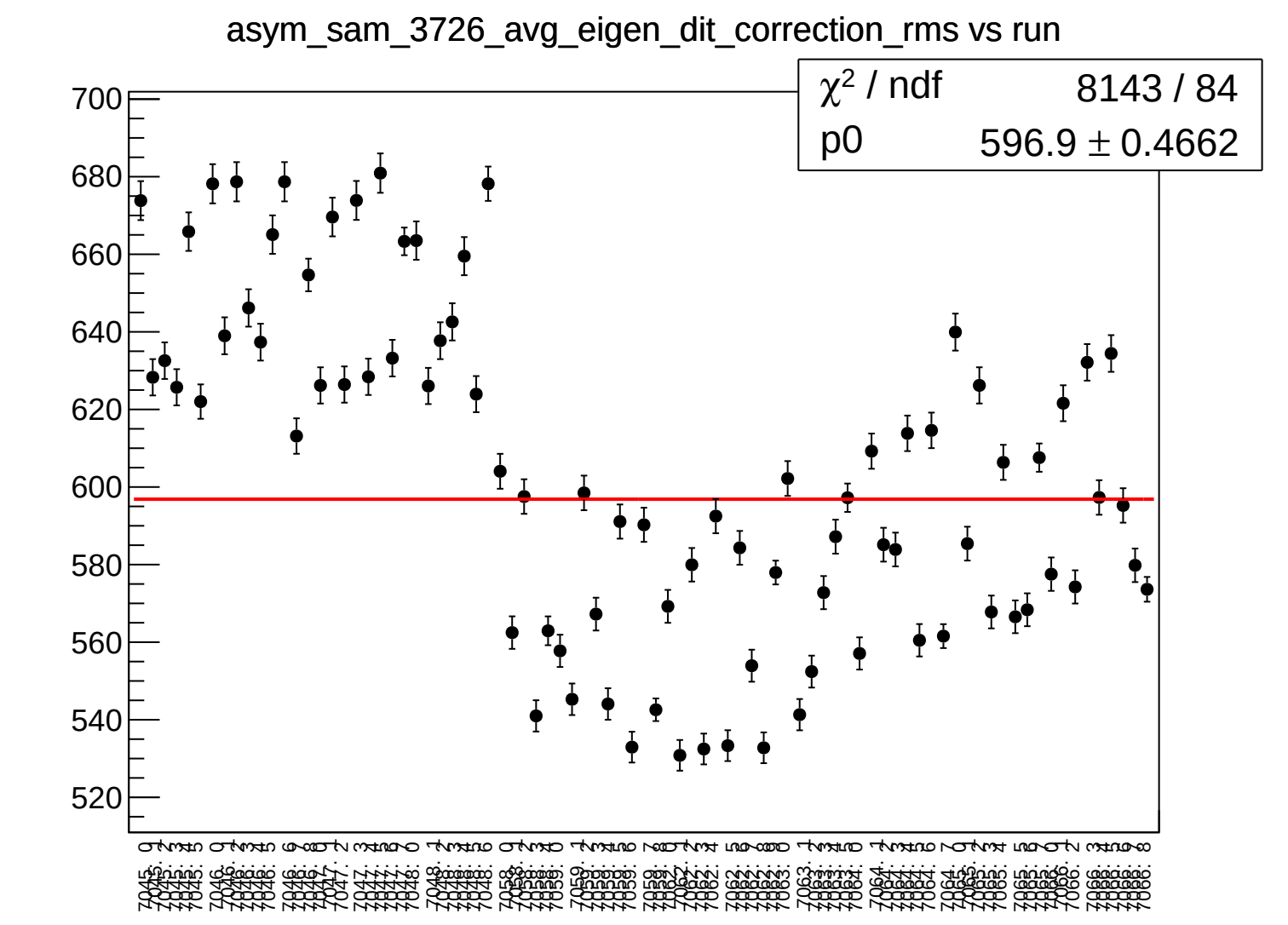

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 114.4 / 84
p0 12.74 ± 83.53
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −46.66
Std Dev 0
2
1
0
−1
−2

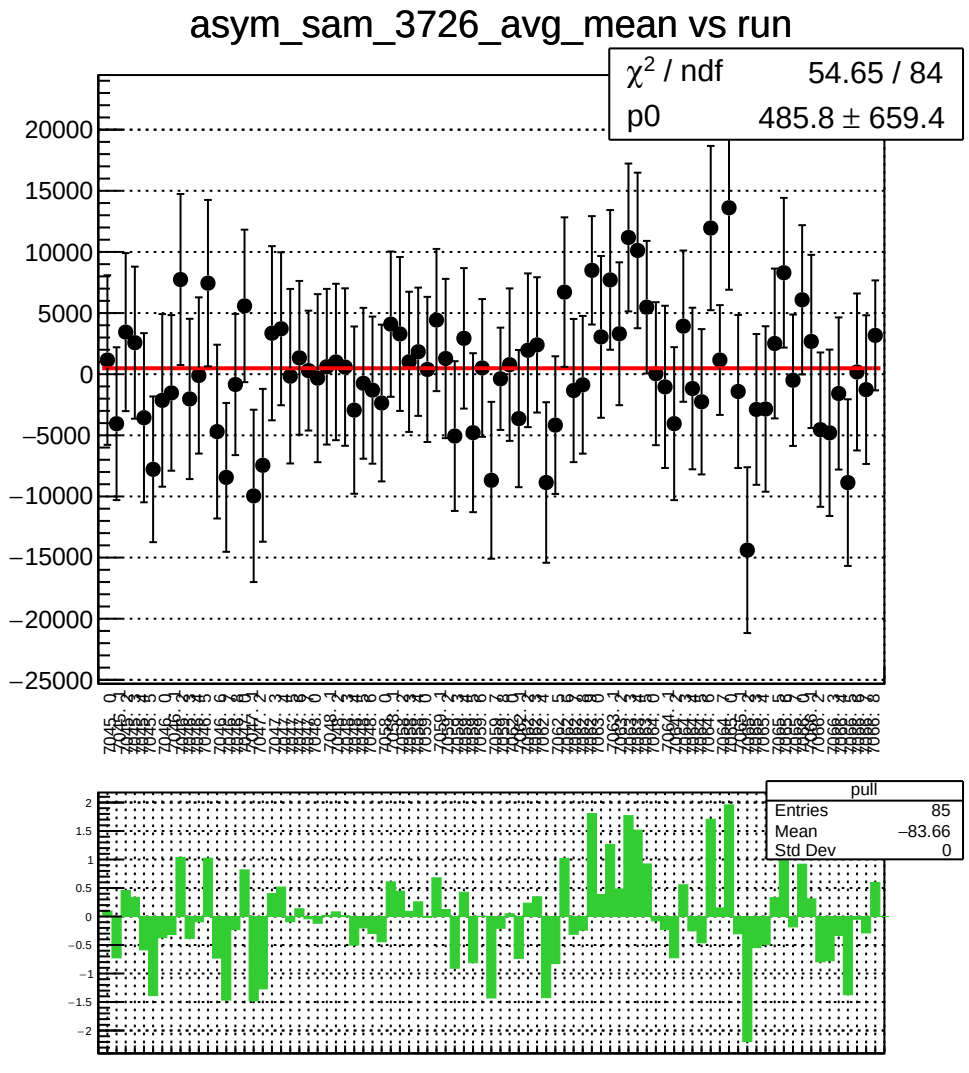

pull1D
Entries 85
Mean −0.00764
Std Dev 1.16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

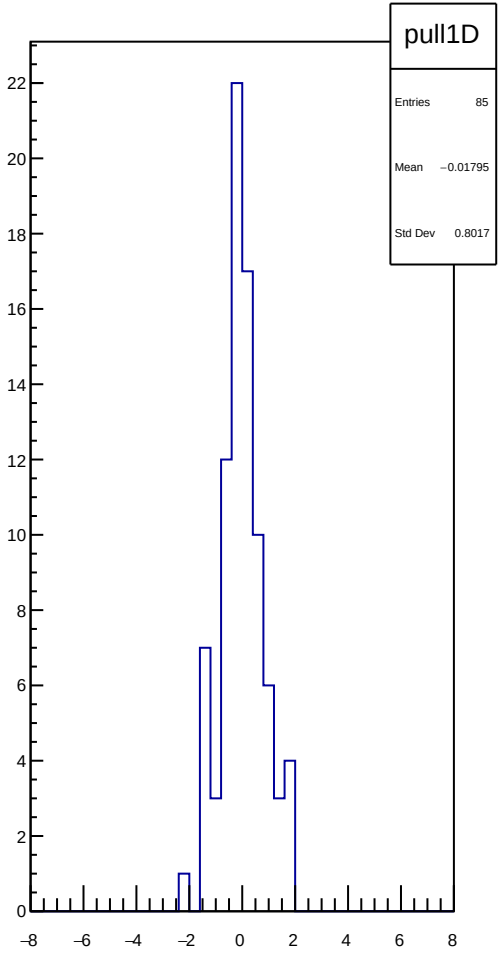

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.868e+04 / 84
p0 75.37 ± 0.05906
120
110
100
90
80
70
60

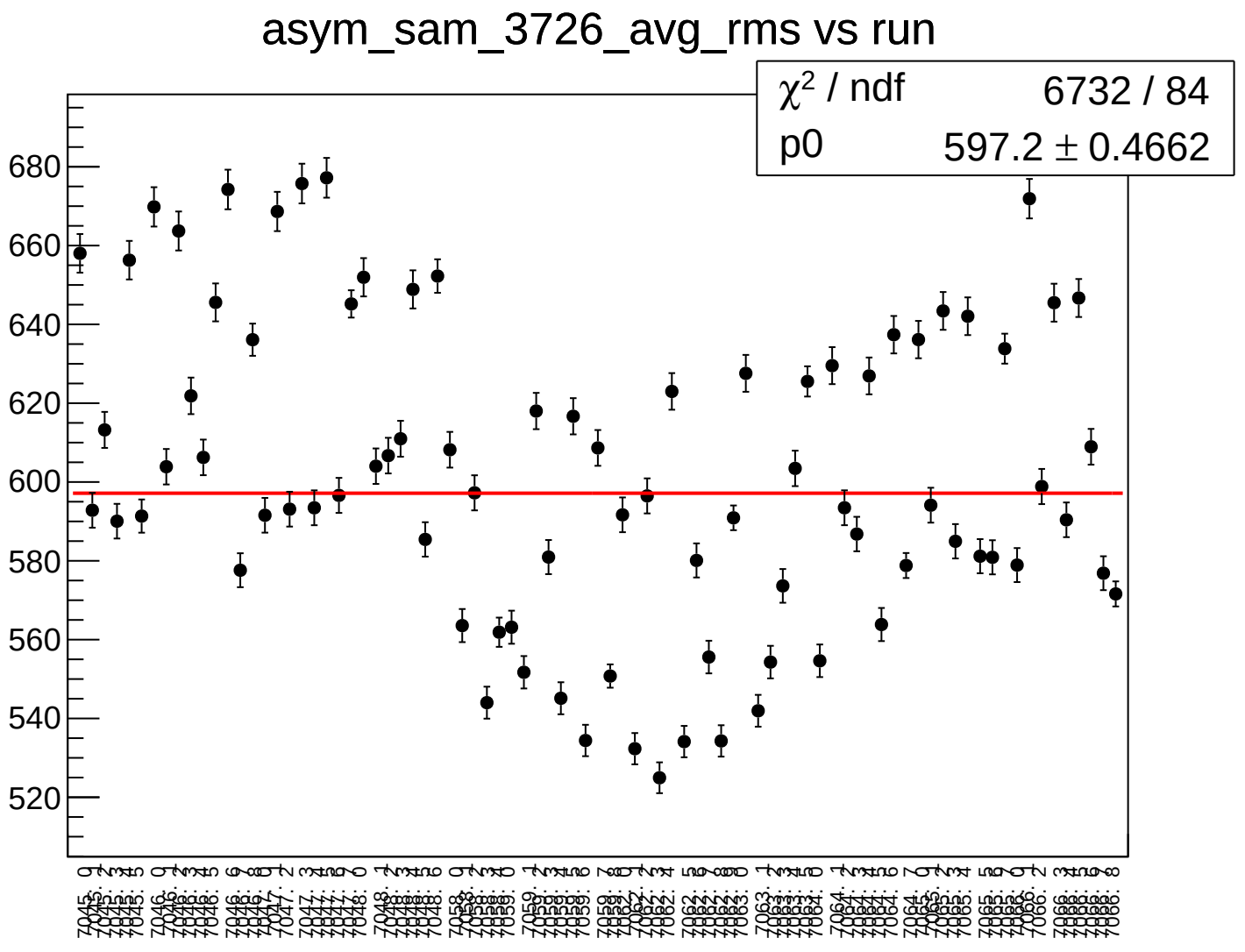

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 53.07 / 84
p0 −470 ± 659.3
pull
Entries 85
Mean −74.01
Std Dev 0

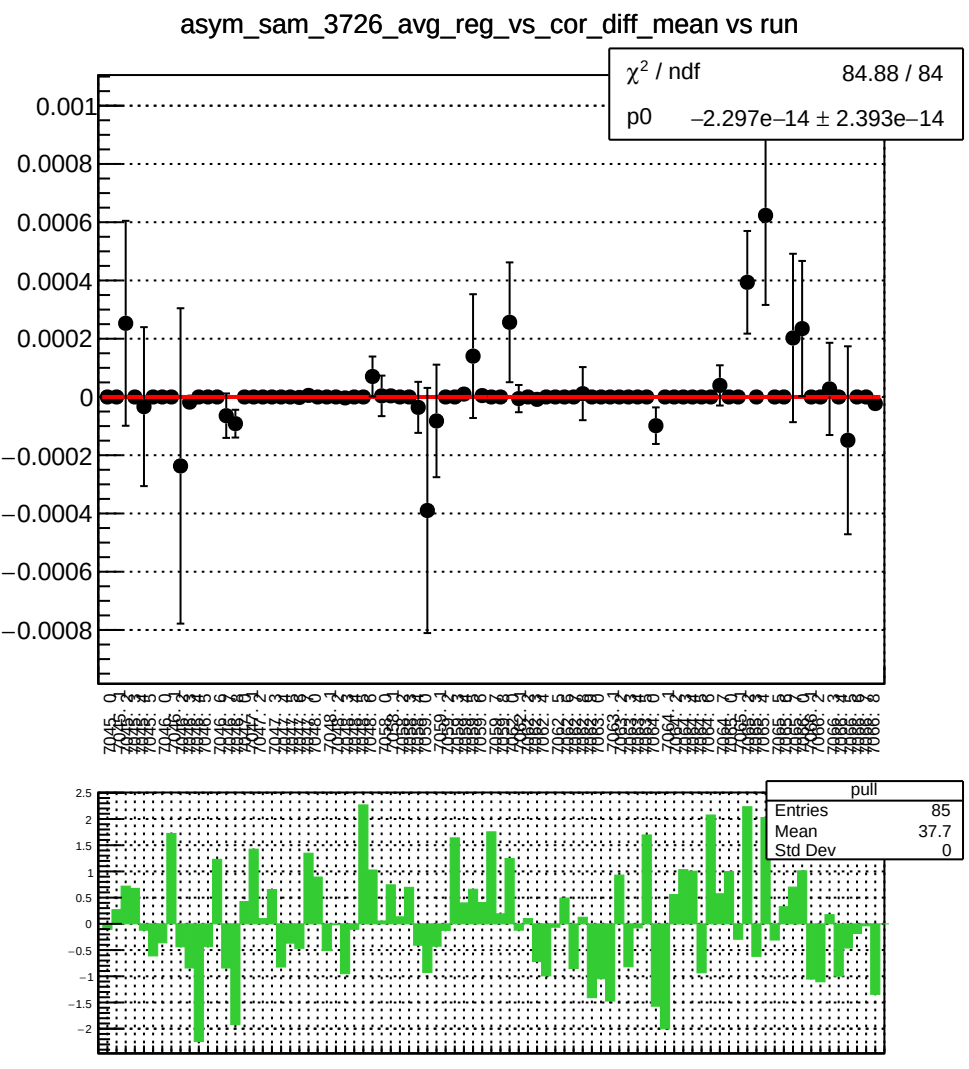

pull1D
Entries 85
Mean 0.01749
Std Dev 0.7899

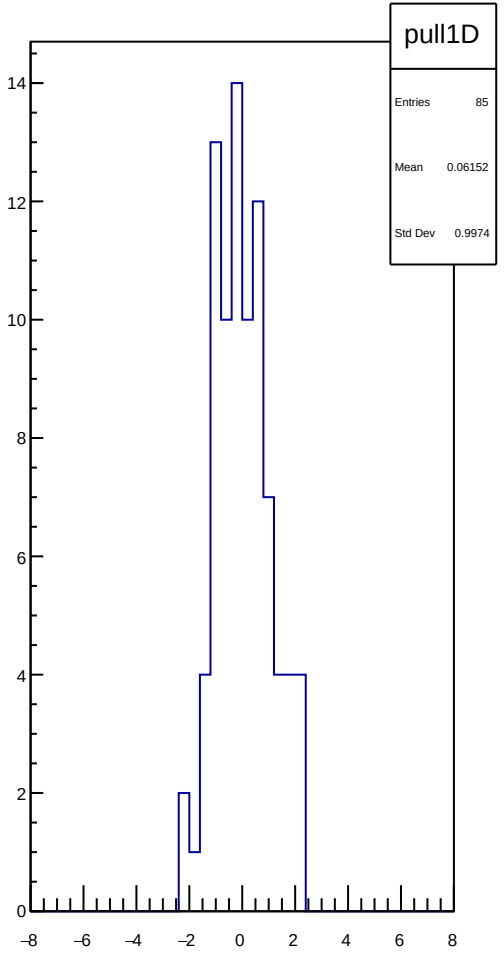

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 8143 / 84
p0 596.9 ± 0.4662
700
680
660
640
620
600
580
560
540
520

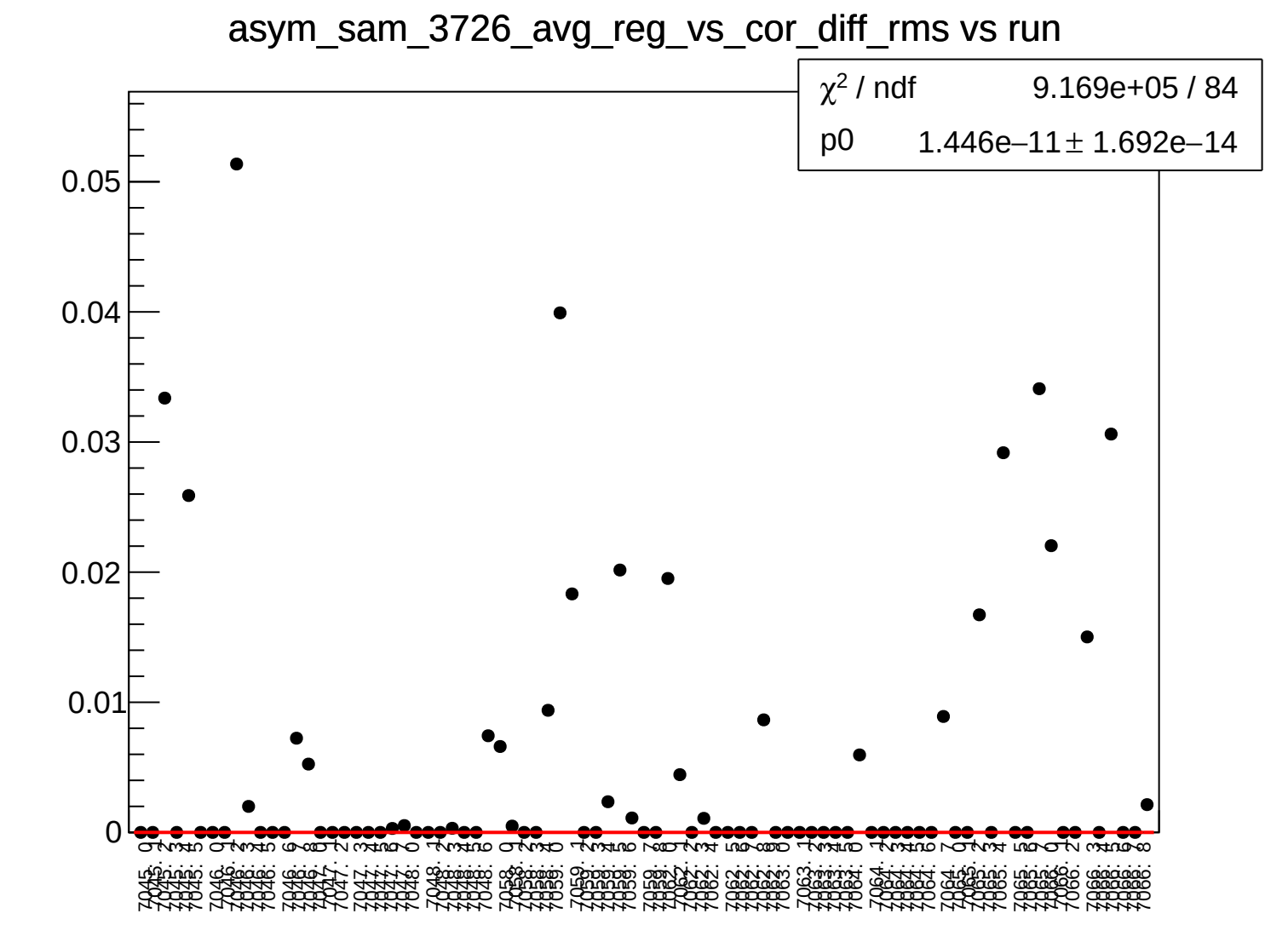

asym_sam_3726_avg_mean vs run
χ² / ndf 54.65 / 84
p0 485.8 ± 659.4
pull
Entries 85
Mean −83.66
Std Dev 0

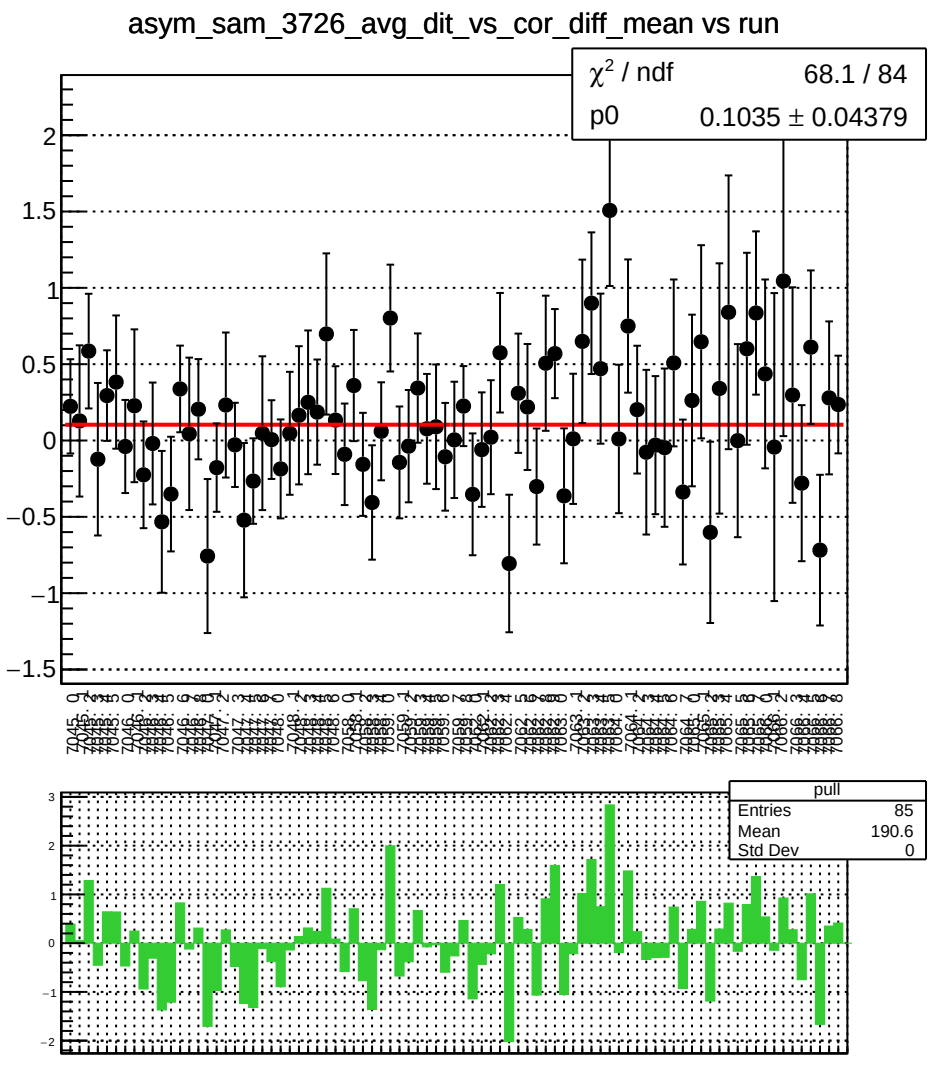

pull1D
Entries 85
Mean −0.01795
Std Dev 0.8017

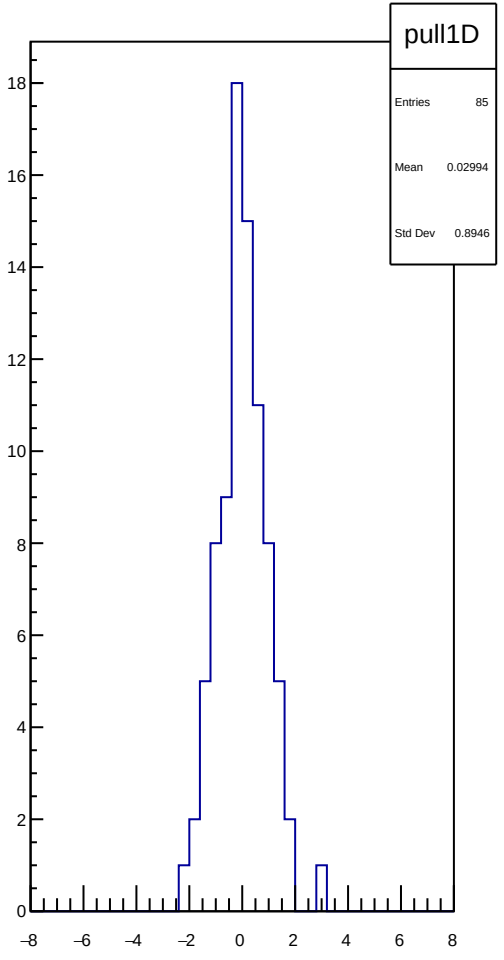

asym_sam_3726_avg_rms vs run
χ^2 / ndf 6732 / 84
p0 597.2 ± 0.4662
680
660
640
620
600
580
560
540
520

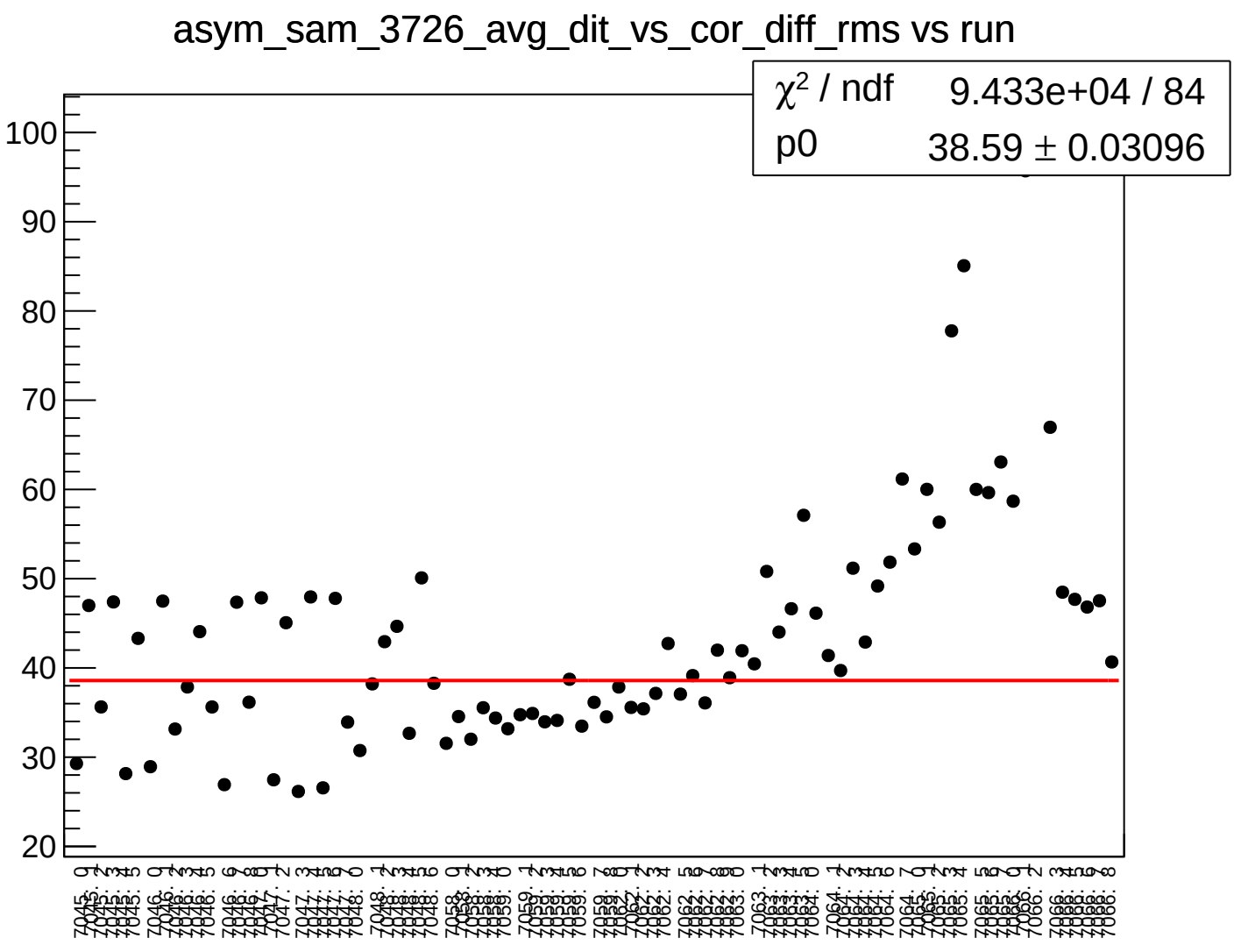

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.88 / 84
p0 −2.297e−14 ± 2.393e−14
pull
Entries 85
Mean 37.7
Std Dev 0

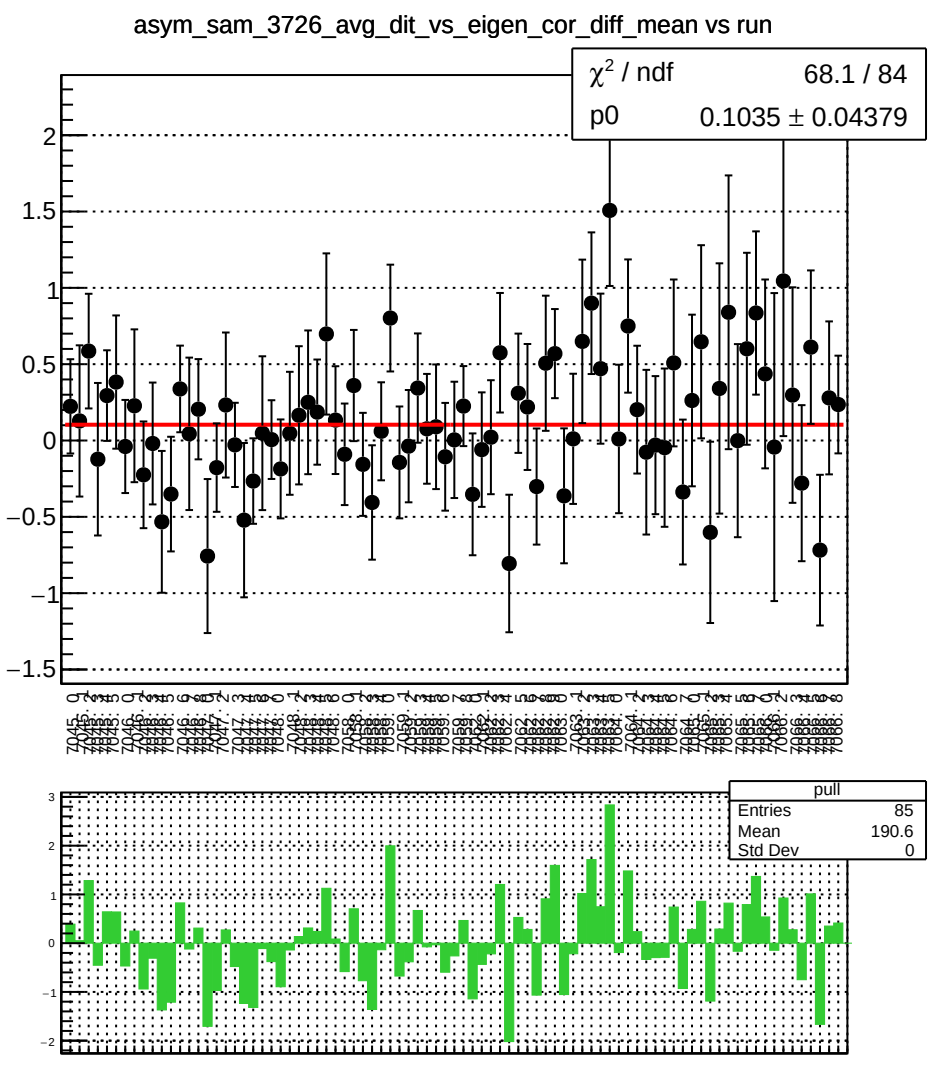

pull1D
Entries 85
Mean 0.06152
Std Dev 0.9974

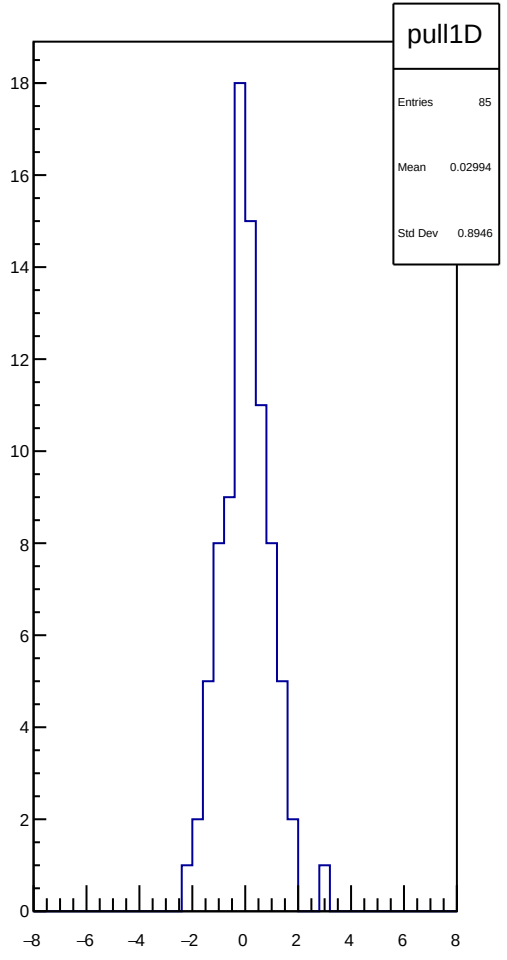

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.169e+05 / 84
p0 1.446e−11 ± 1.692e−14
0.05
0.04
0.03
0.02
0.01
0

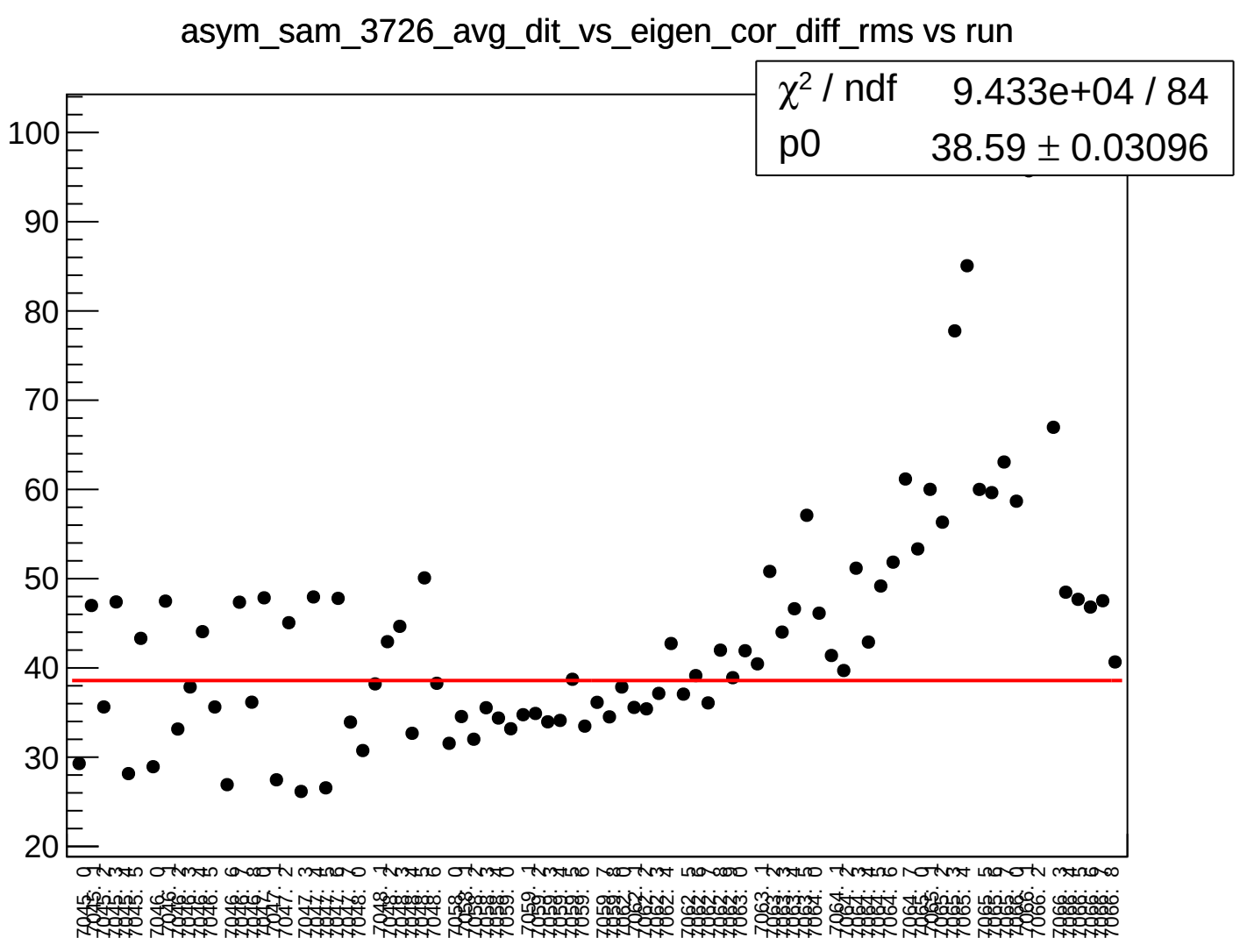

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.1 / 84
p0 0.1035 ± 0.04379
pull
Entries 85
Mean 190.6
Std Dev 0

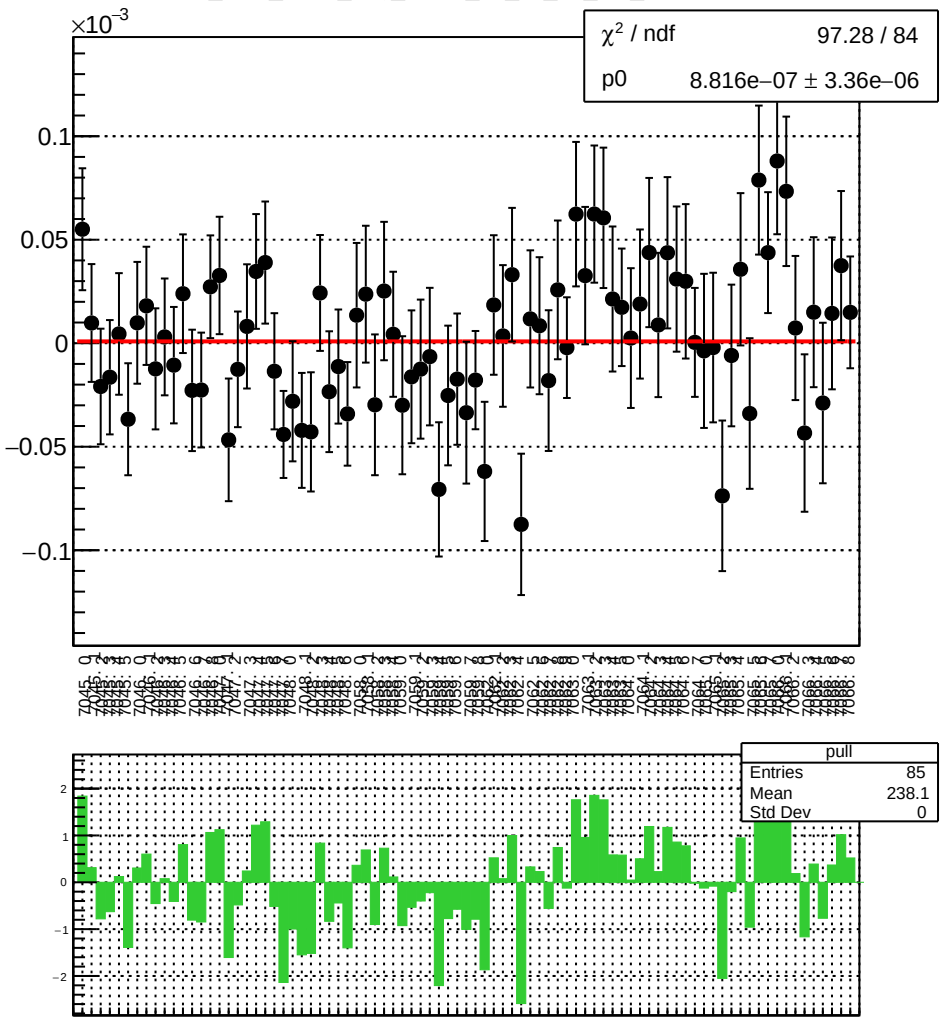

pull1D
Entries 85
Mean 0.02994
Std Dev 0.8946

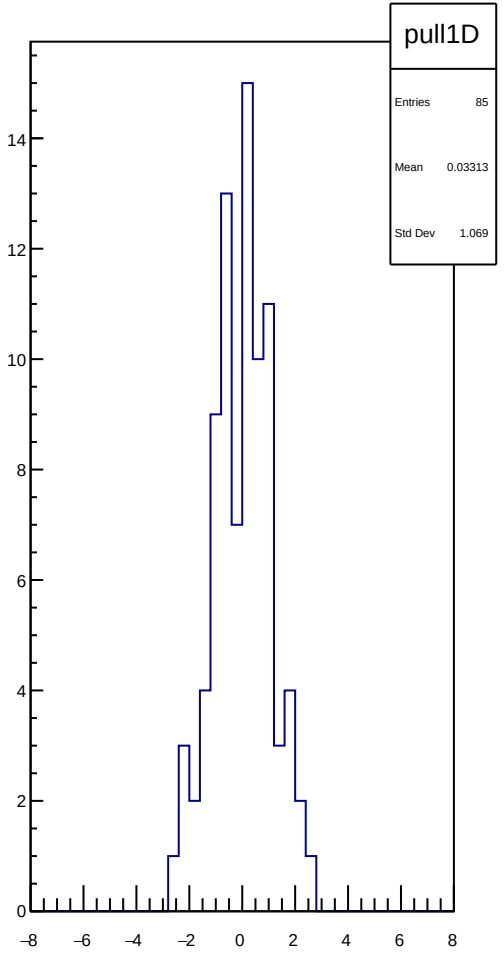

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.433e+04 / 84
p0 38.59 ± 0.03096
100
90
80
70
60
50
40
30
20

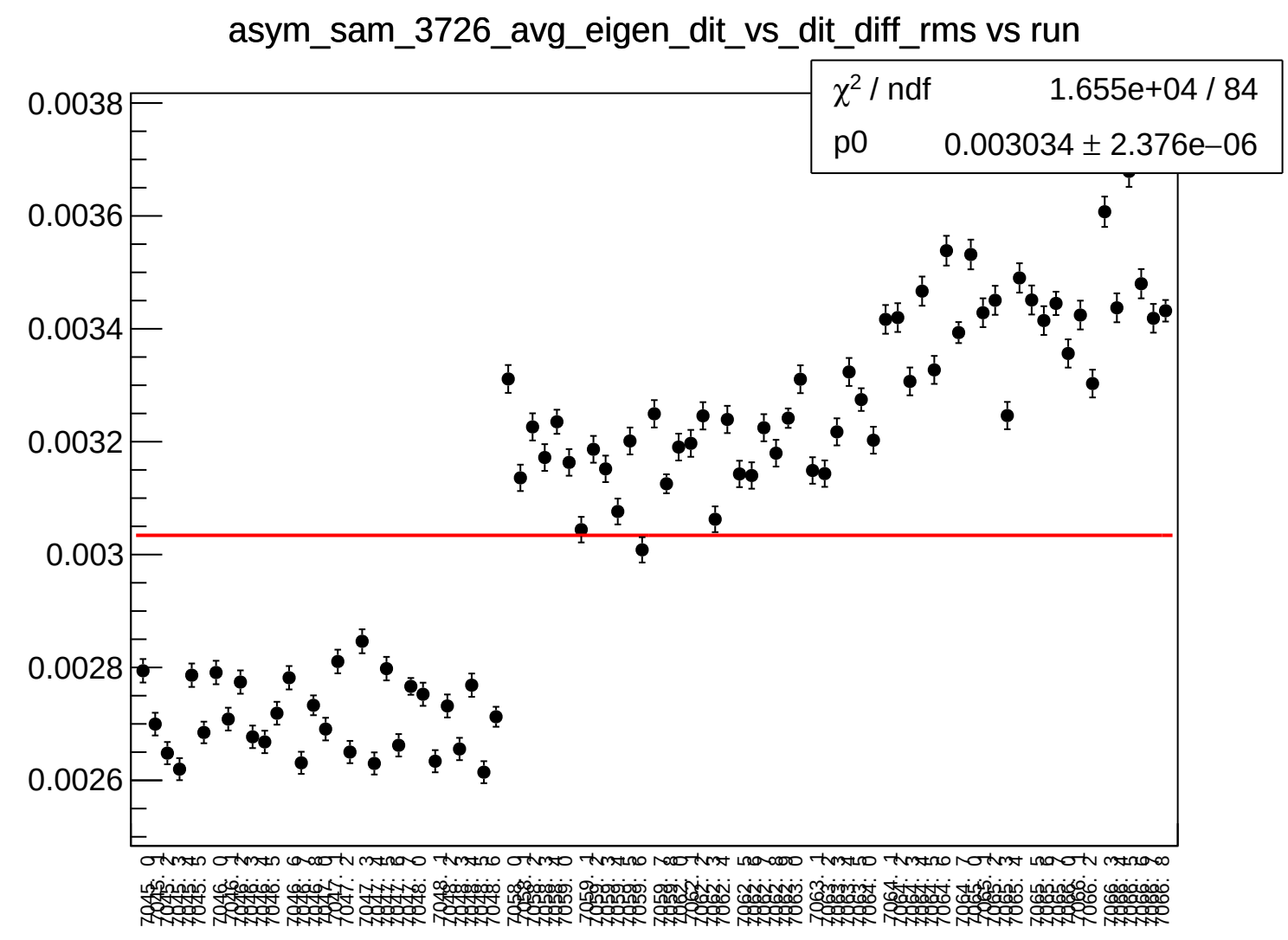

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.1 / 84
p0 0.1035 ± 0.04379
pull
Entries 85
Mean 190.6
Std Dev 0

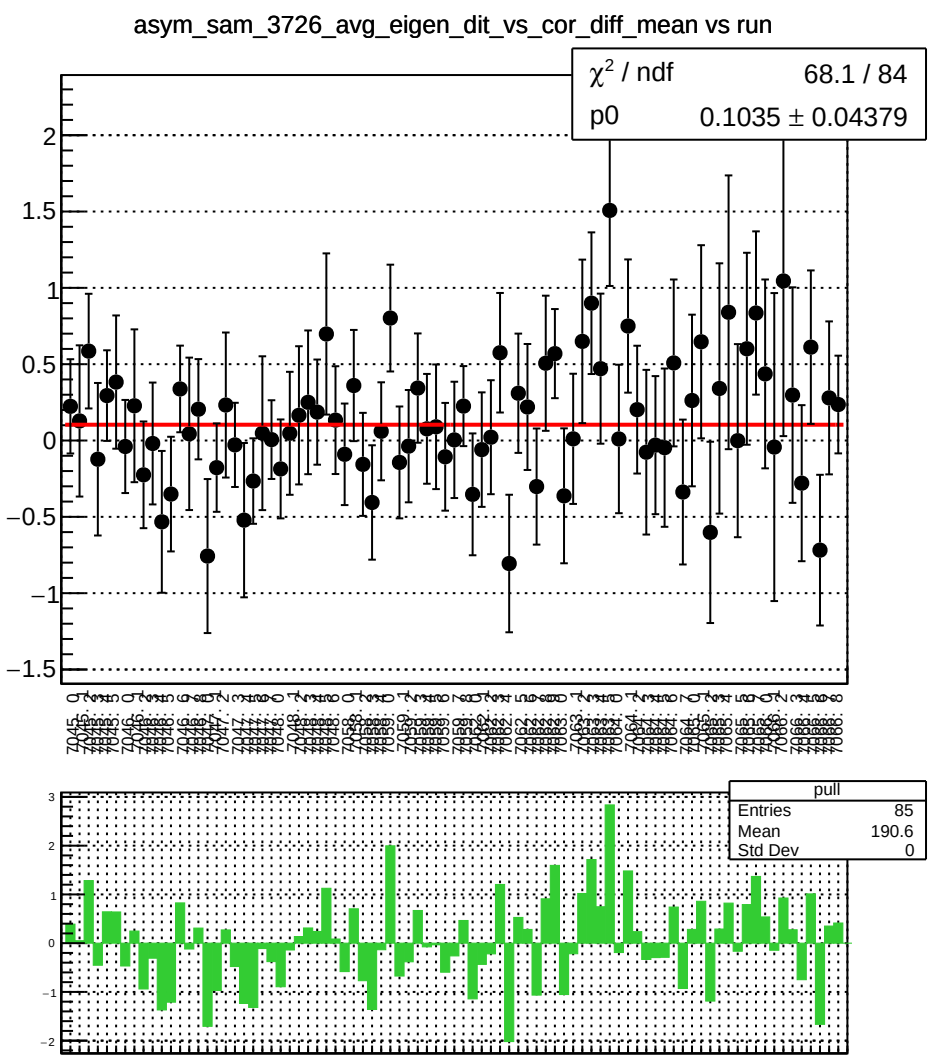

pull1D
Entries 85
Mean 0.02994
Std Dev 0.8946

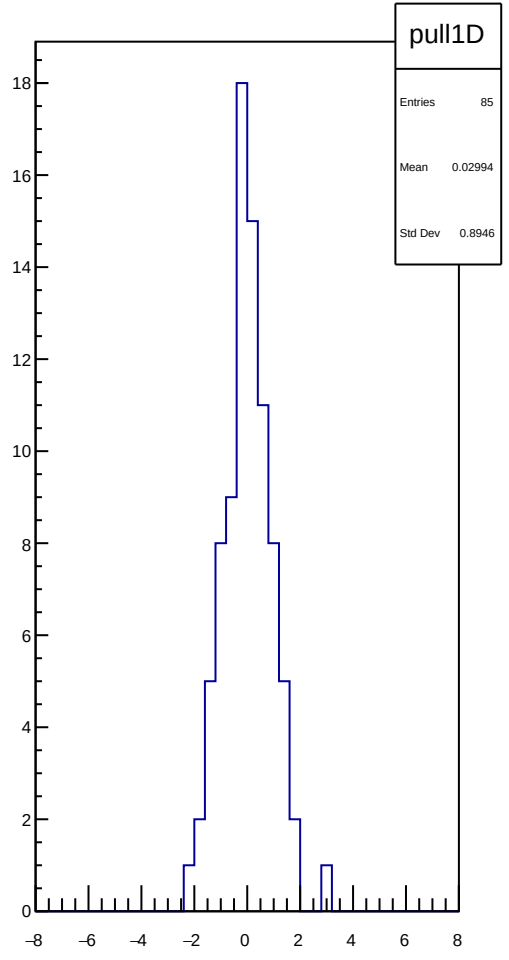

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.433e+04 / 84
p0 38.59 ± 0.03096
100
90
80
70
60
50
40
30
20

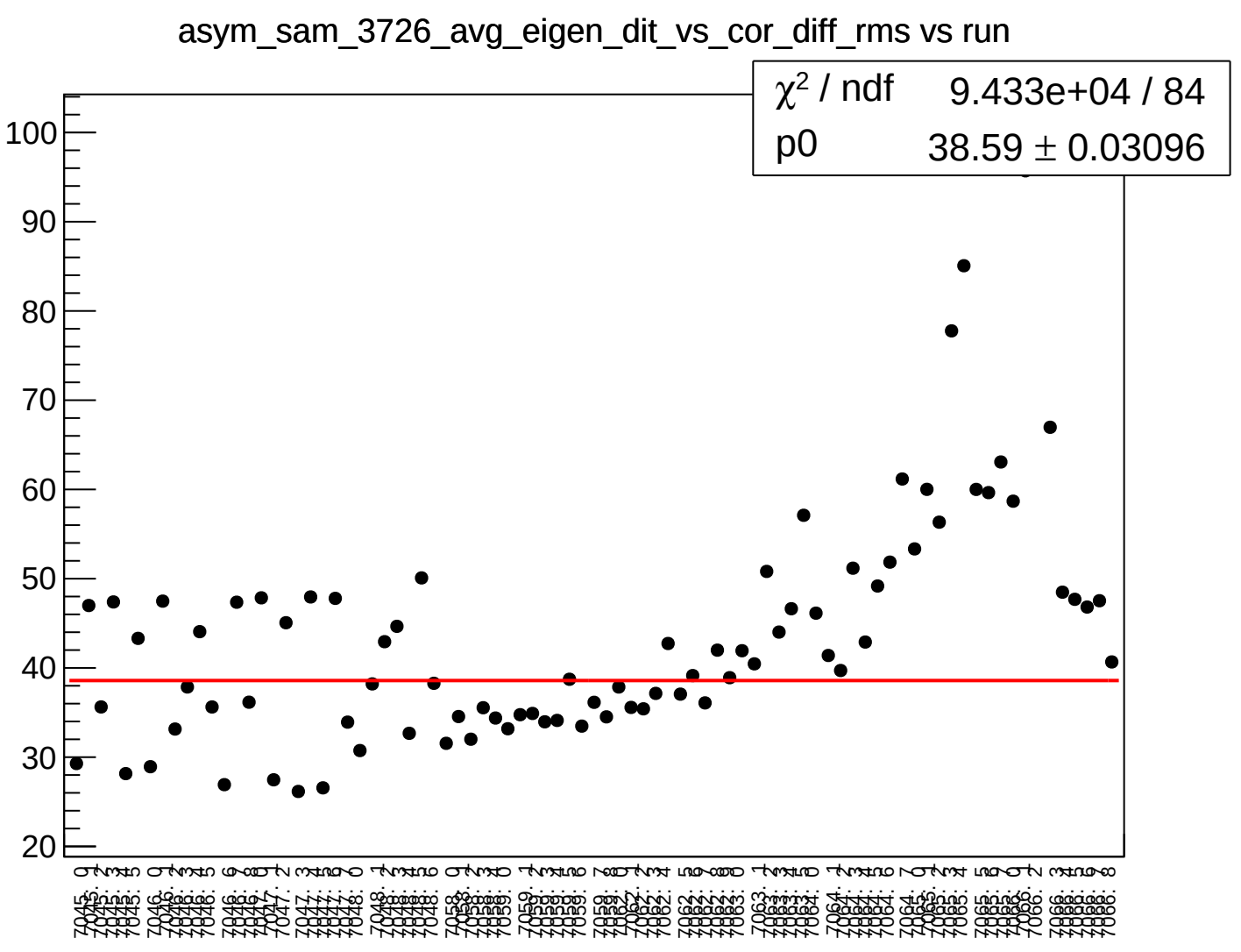

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.28 / 84
p0 8.816e−07 ± 3.36e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 238.1
Std Dev 0
2
1
0
−1
−2

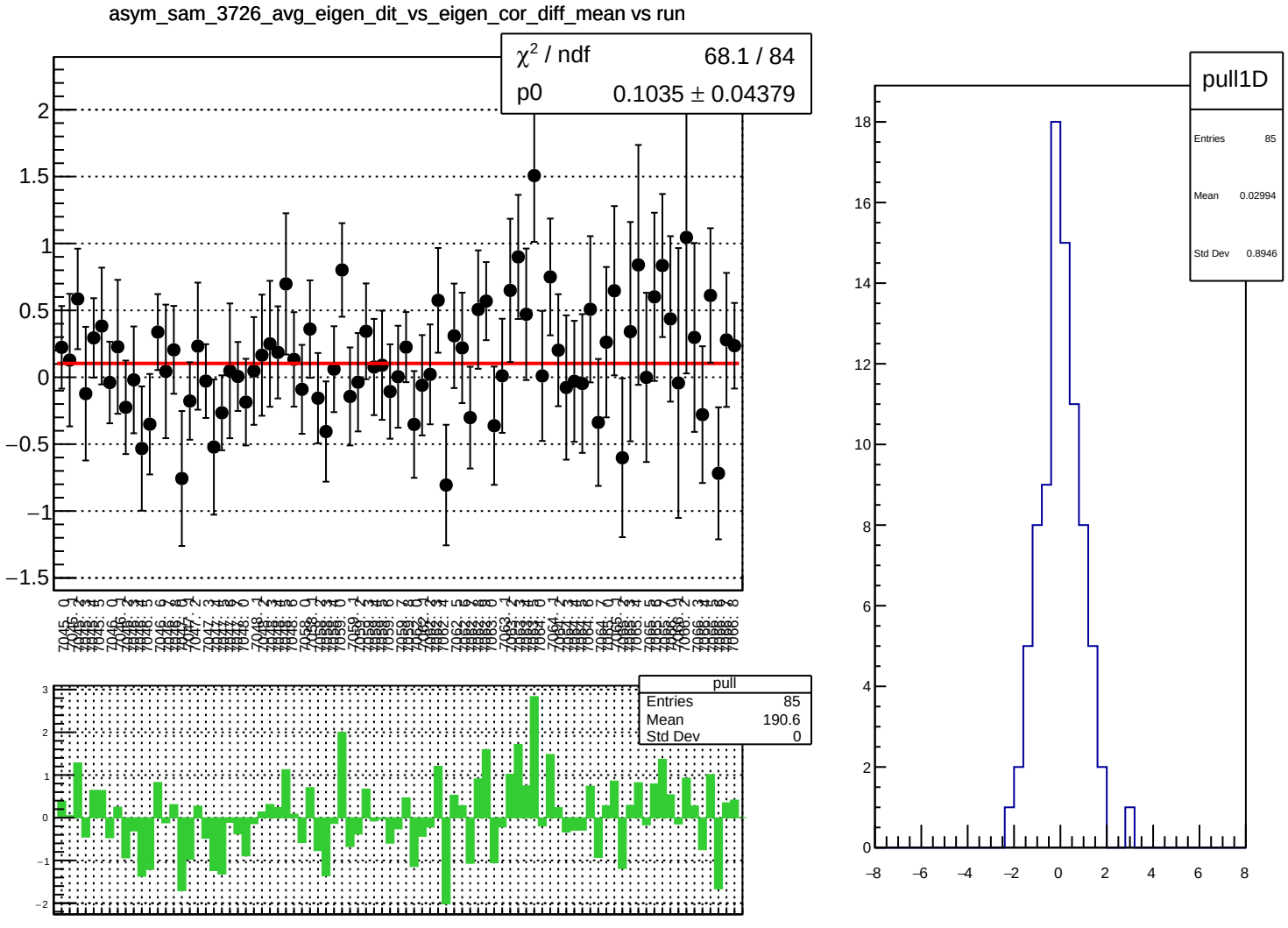

pull1D
Entries 85
Mean 0.03313
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

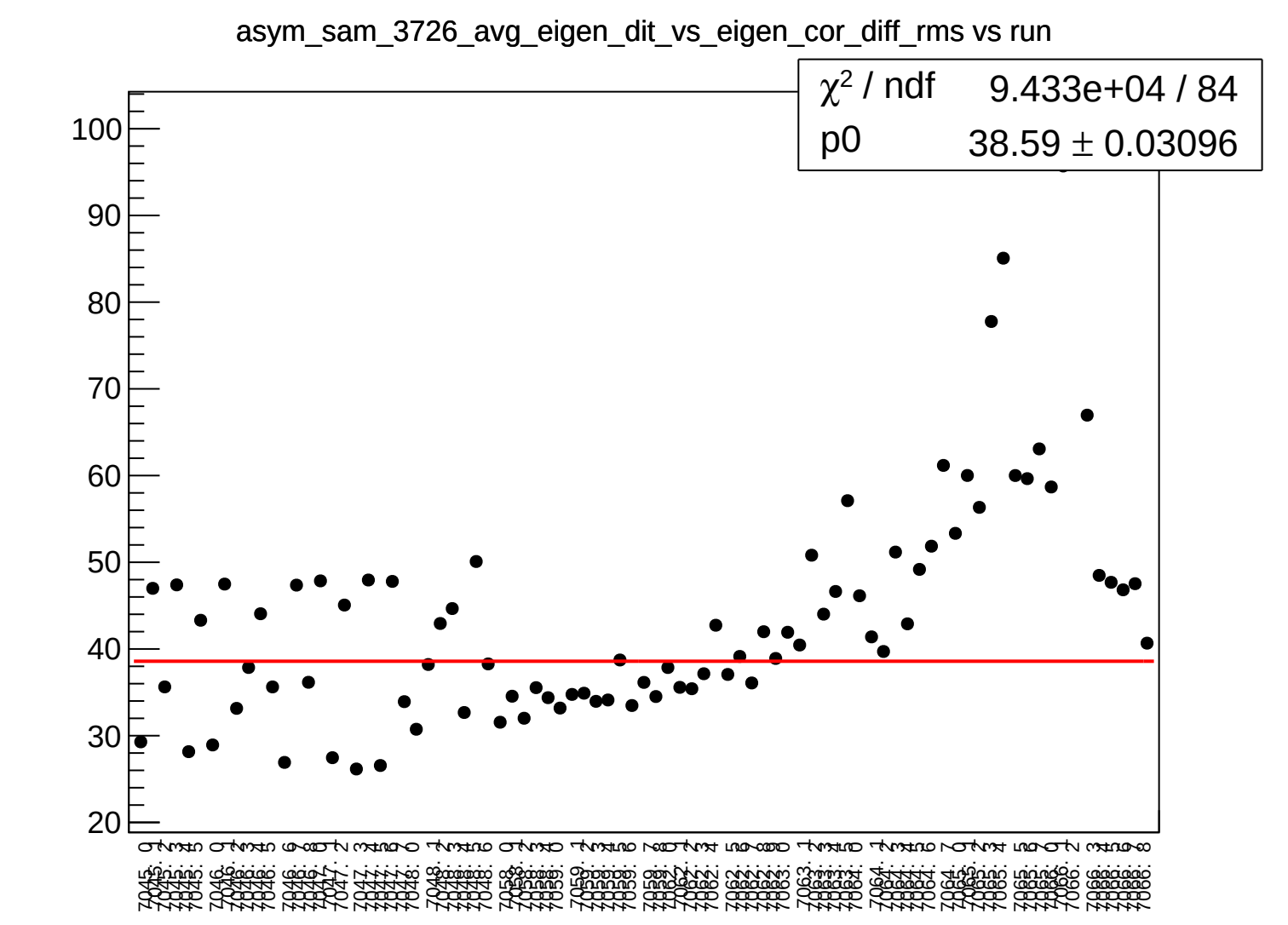

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.655e+04 / 84
p0 0.003034 ± 2.376e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

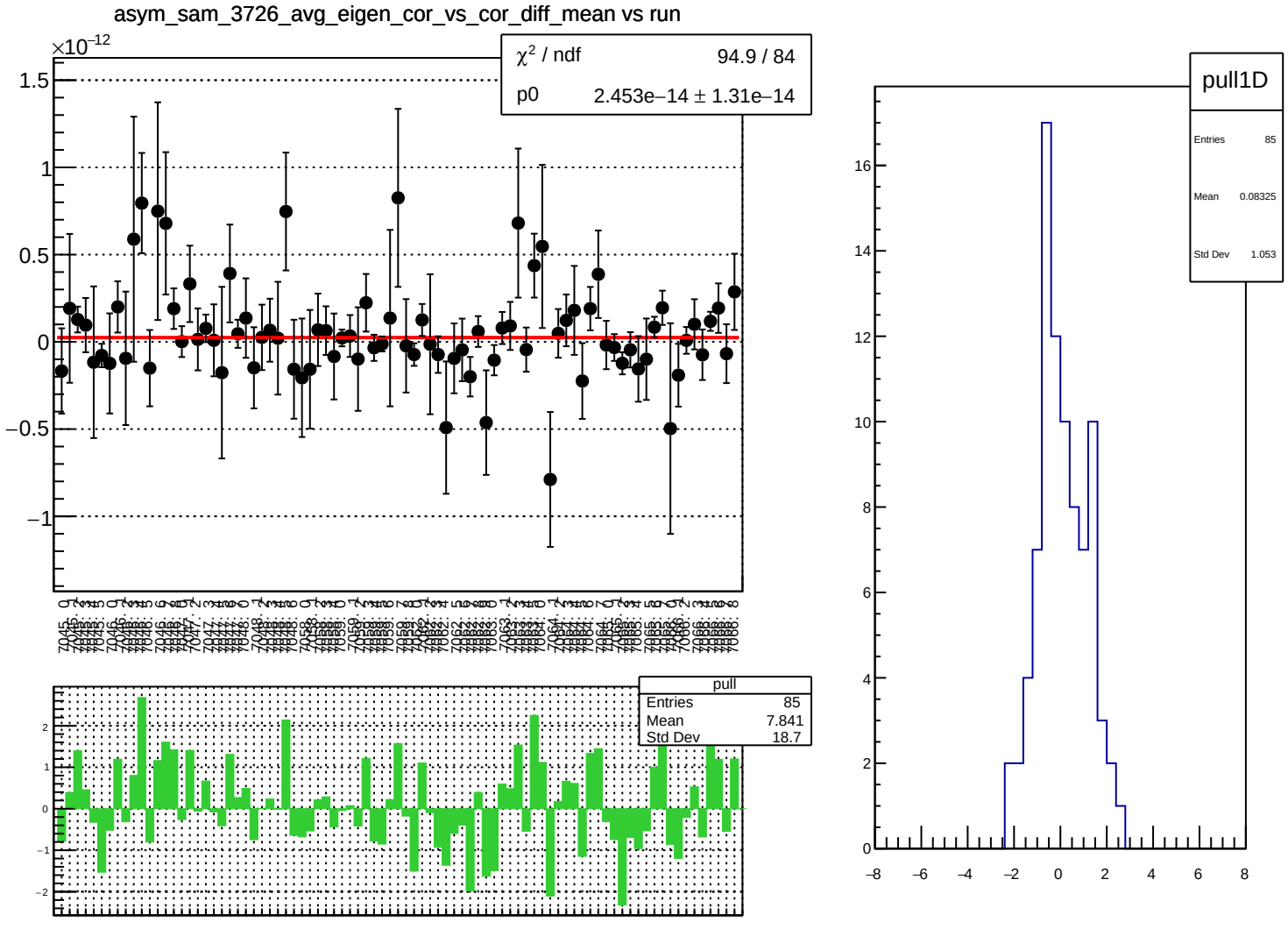

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.1 / 84
p0 0.1035 ± 0.04379
pull
Entries 85
Mean 190.6
Std Dev 0

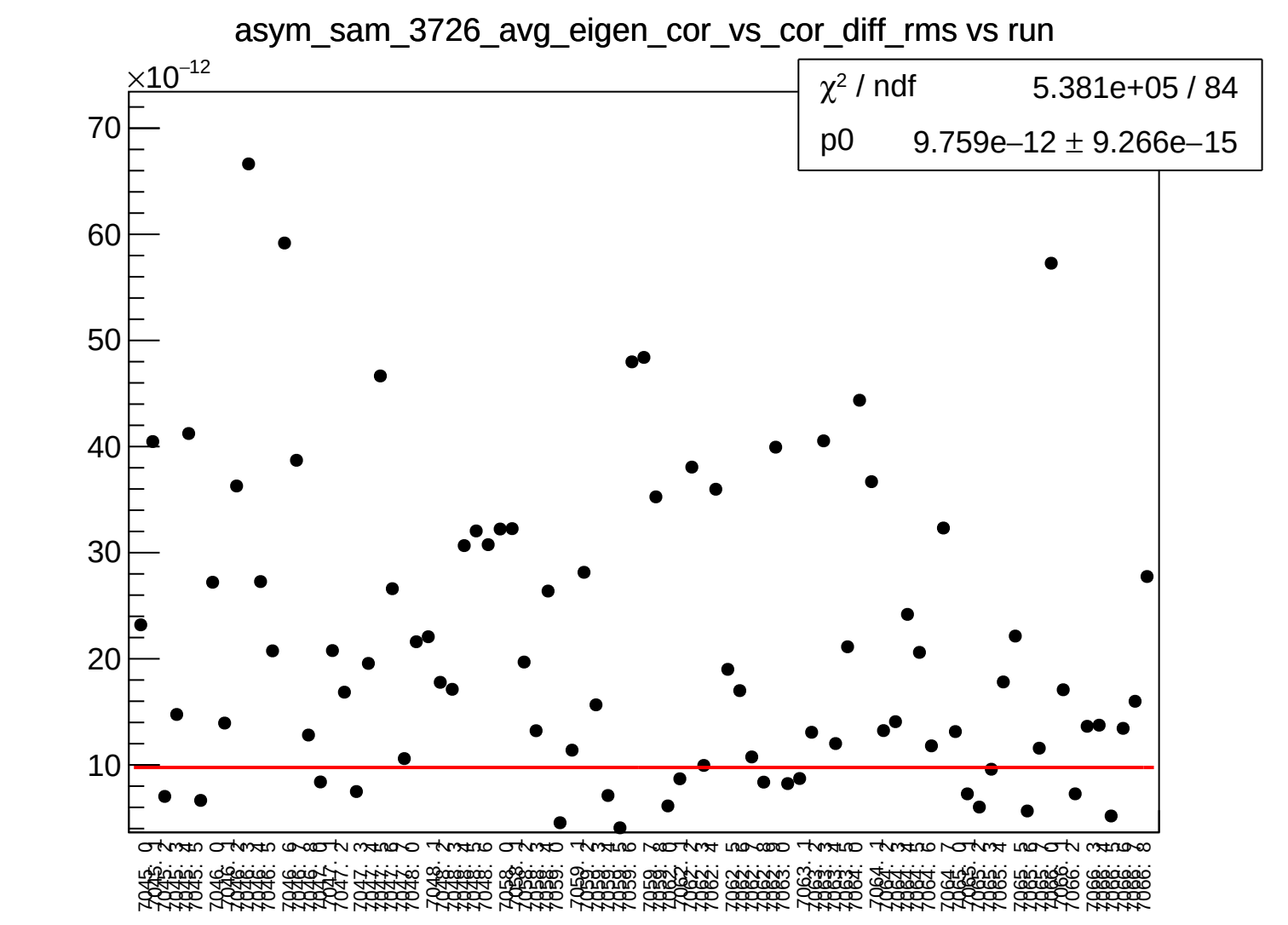

pull1D
Entries 85
Mean 0.02994
Std Dev 0.8946

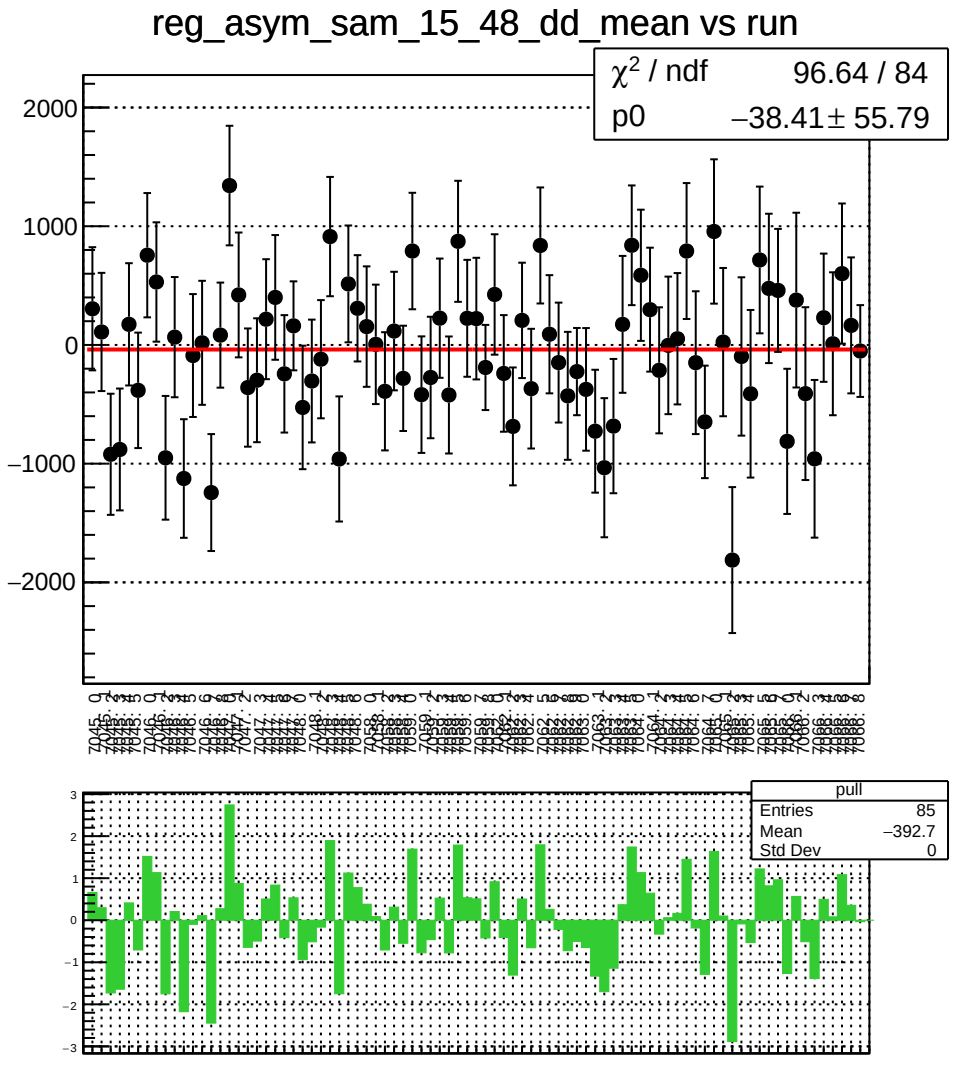

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.433e+04 / 84
p0 38.59 ± 0.03096
100
90
80
70
60
50
40
30
20

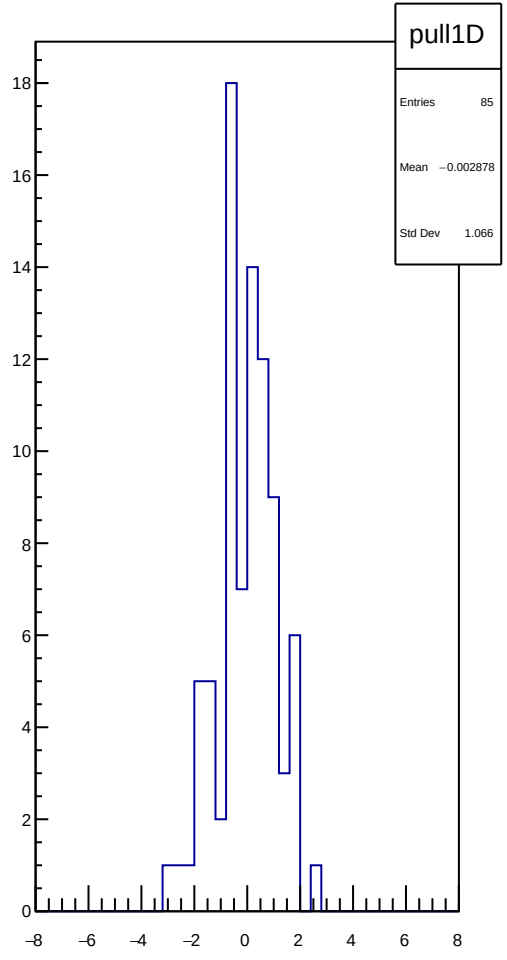

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.1 / 84
p0 0.1035 ± 0.04379
pull
Entries 85
Mean 190.6
Std Dev 0
pull1D
Entries 85
Mean 0.02994
Std Dev 0.8946

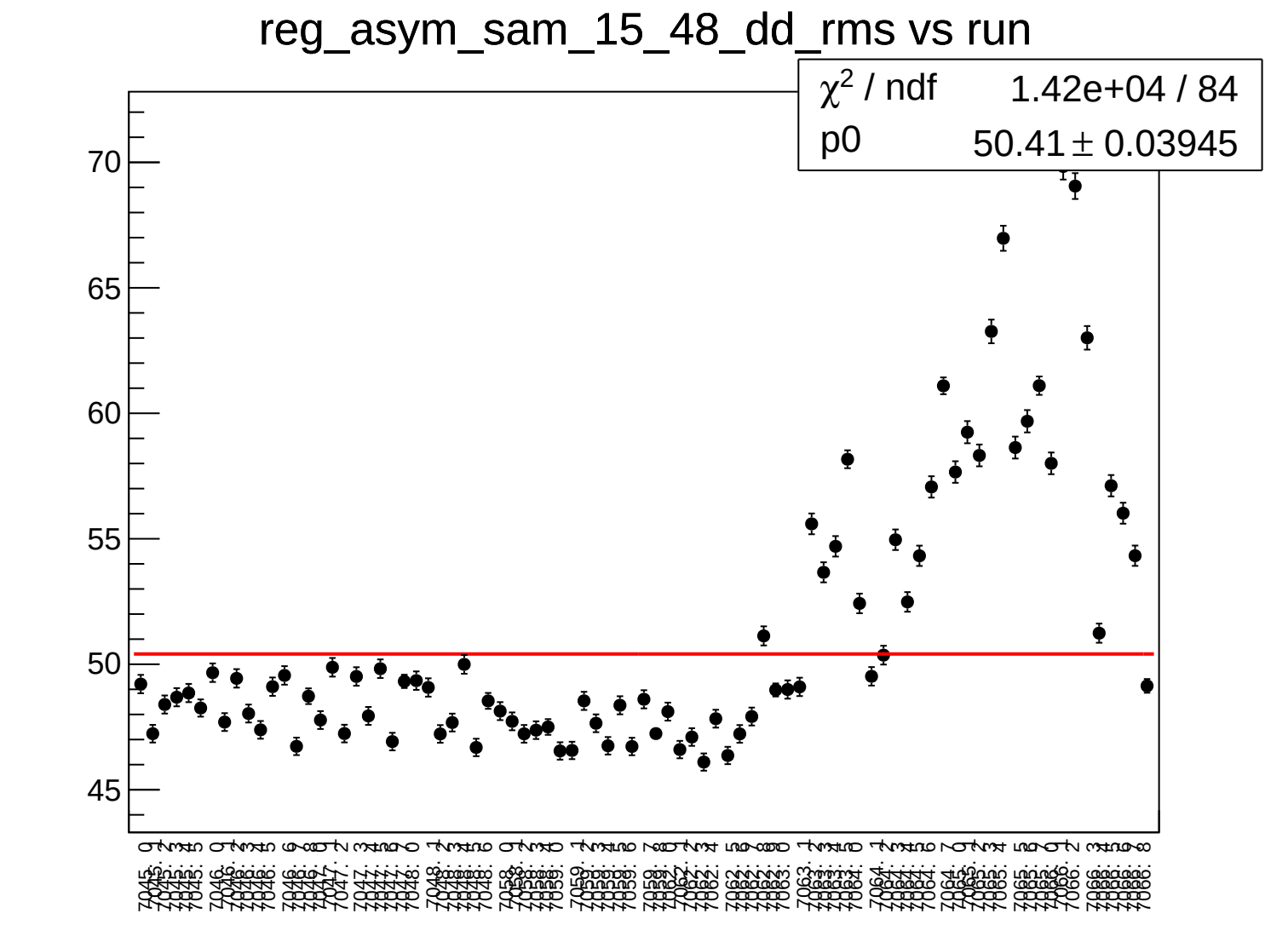

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.433e+04 / 84
p0 38.59 ± 0.03096
100
90
80
70
60
50
40
30
20

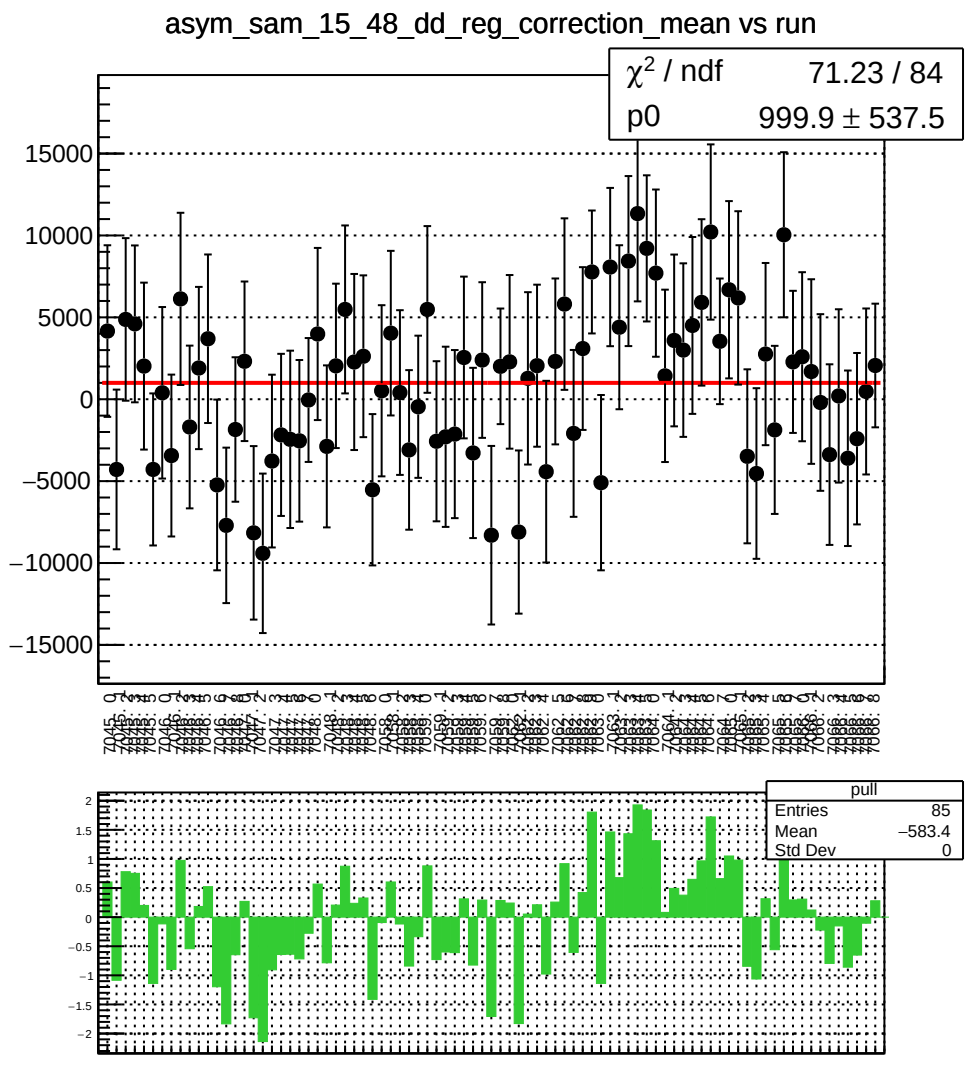

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.9 / 84
p0 2.453e−14 ± 1.31e−14
pull
Entries 85
Mean 7.841
Std Dev 18.7
pull1D
Entries 85
Mean 0.08325
Std Dev 1.053

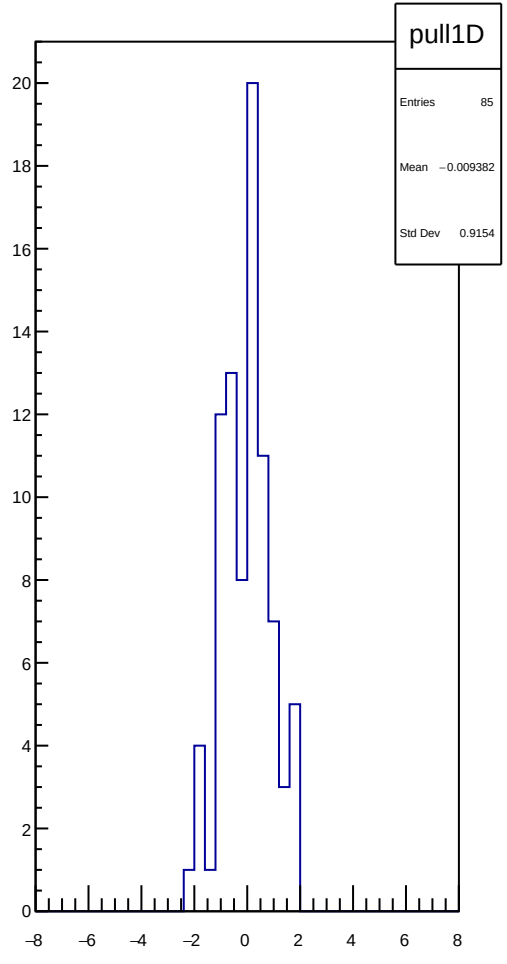

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.381e+05 / 84
p0 9.759e−12 ± 9.266e−15
70
60
50
40
30
20
10

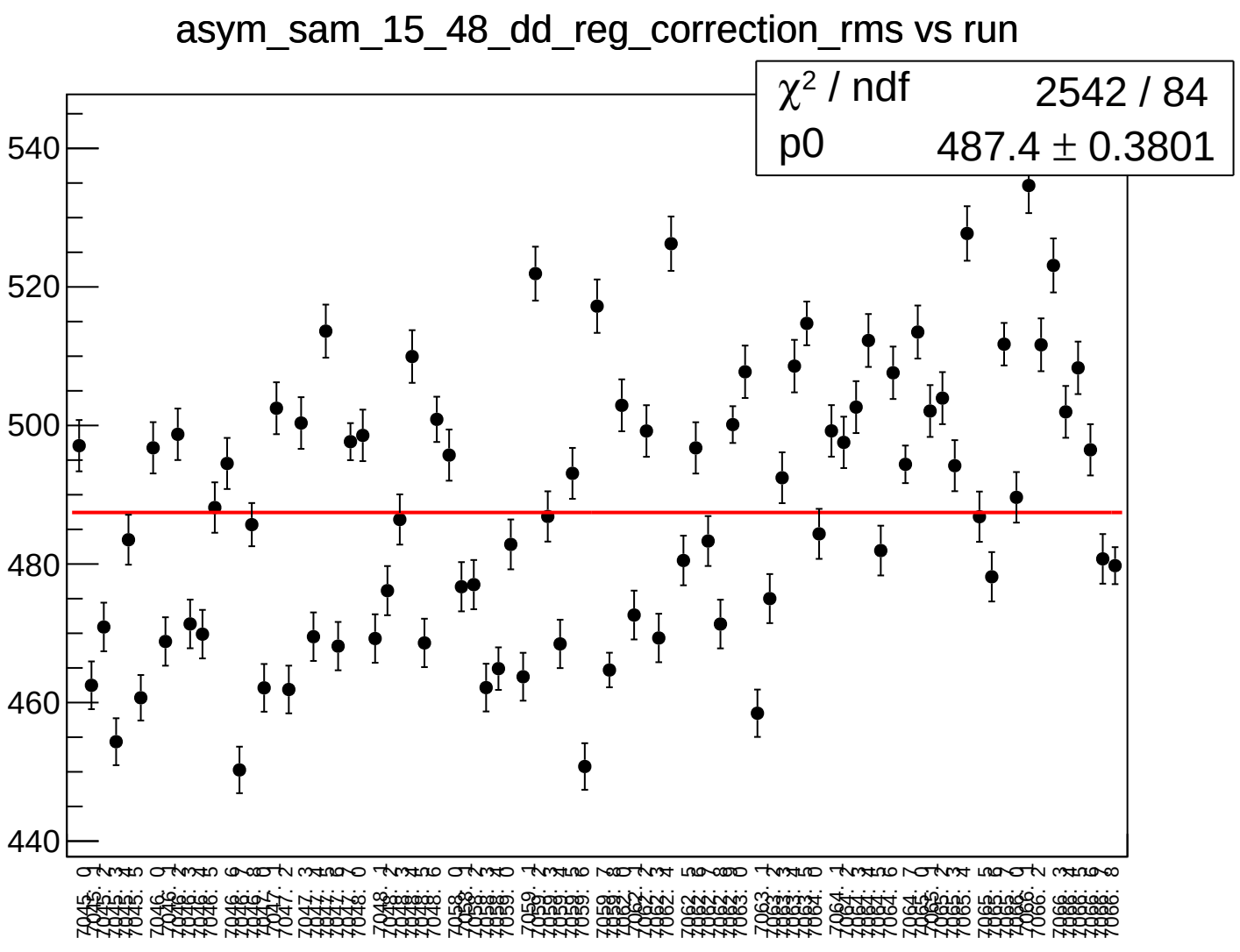

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.64 / 84
p0 −38.41 ± 55.79
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −392.7
Std Dev 0
3
2
1
0
−1
−2
−3

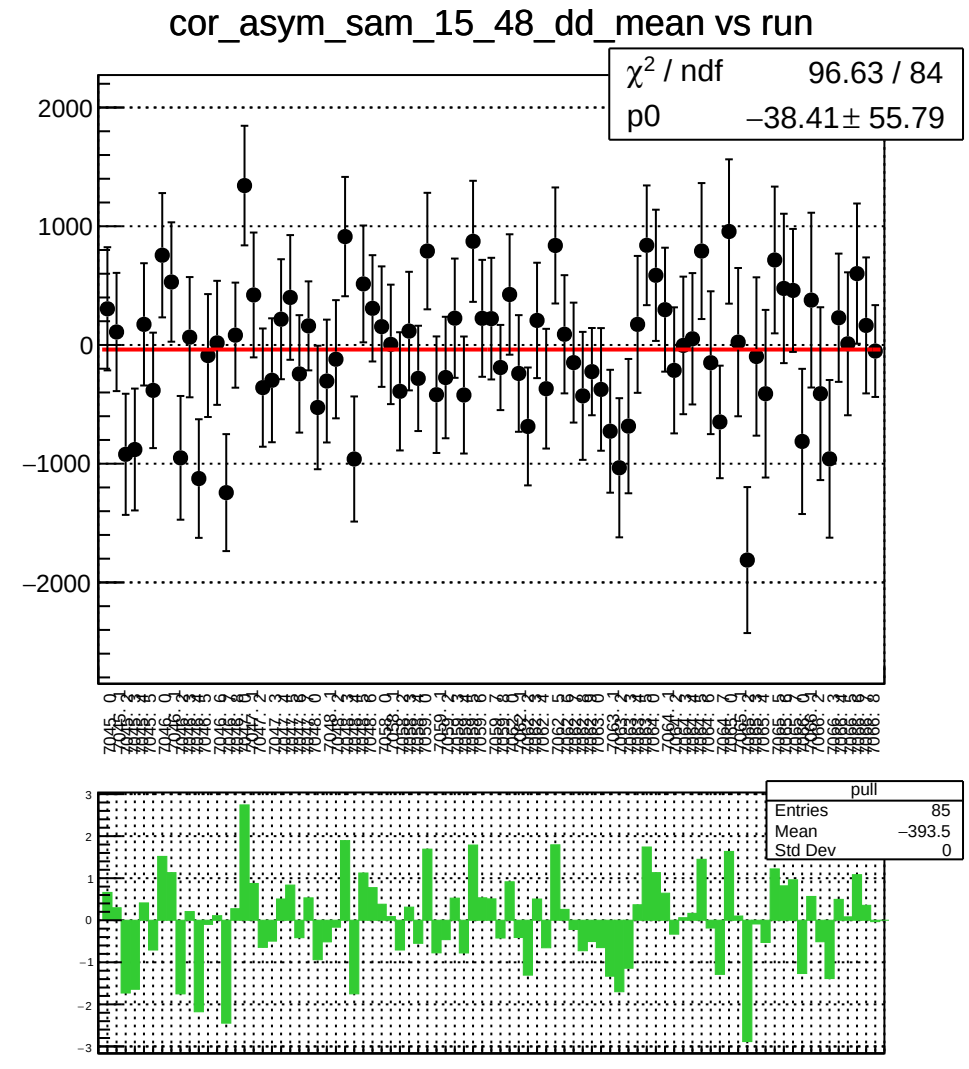

pull1D
Entries 85
Mean −0.002878
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

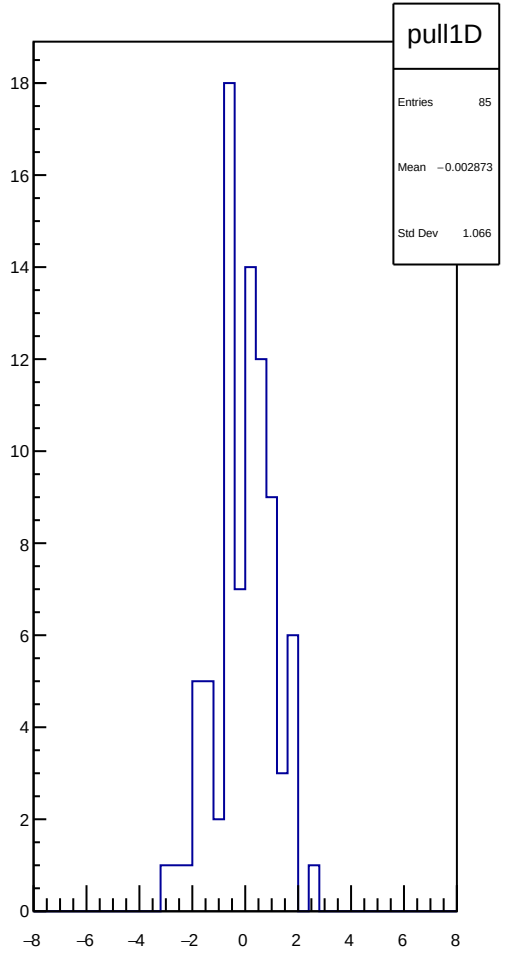

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.42e+04 / 84
p0 50.41 ± 0.03945
70
65
60
55
50
45

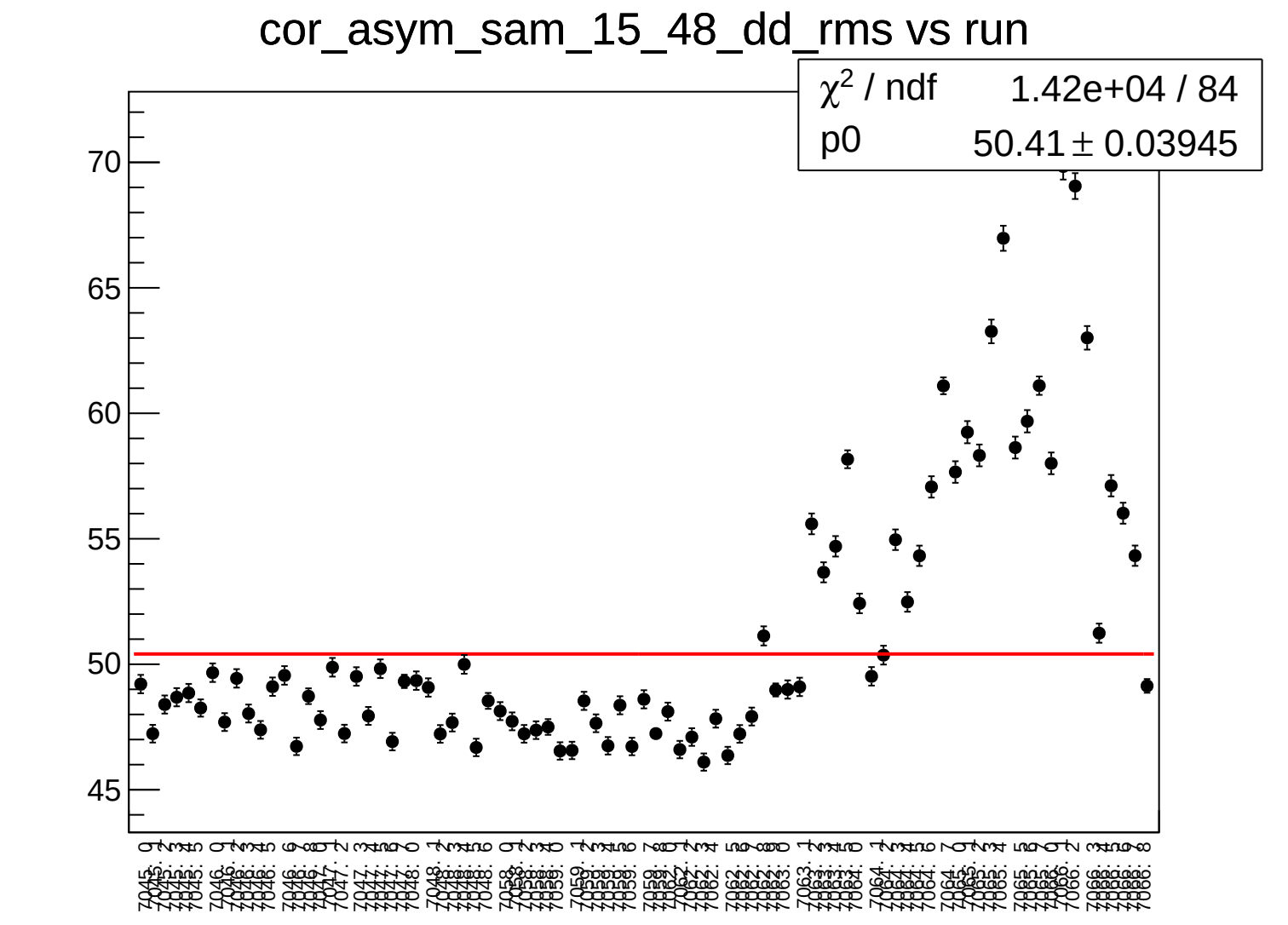

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 71.23 / 84
p0 999.9 ± 537.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −583.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

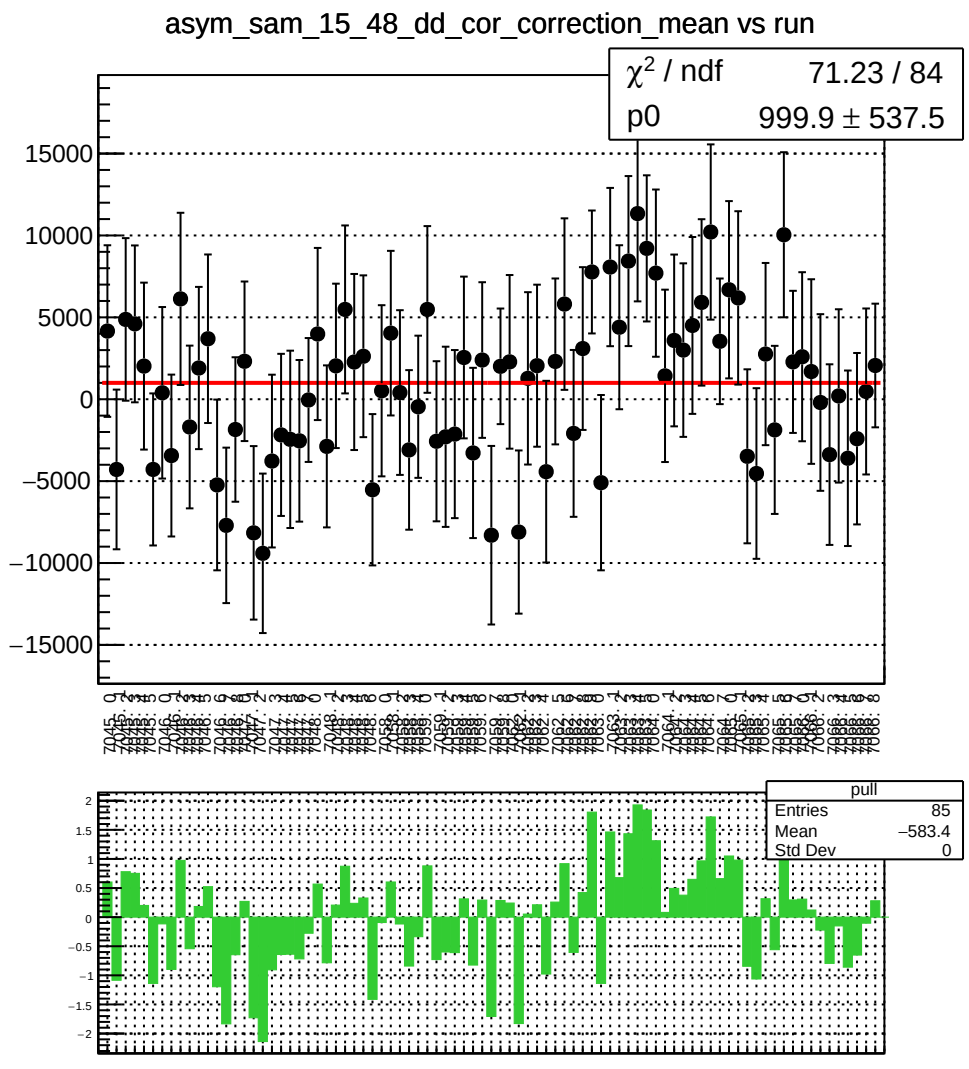

pull1D
Entries 85
Mean −0.009382
Std Dev 0.9154
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

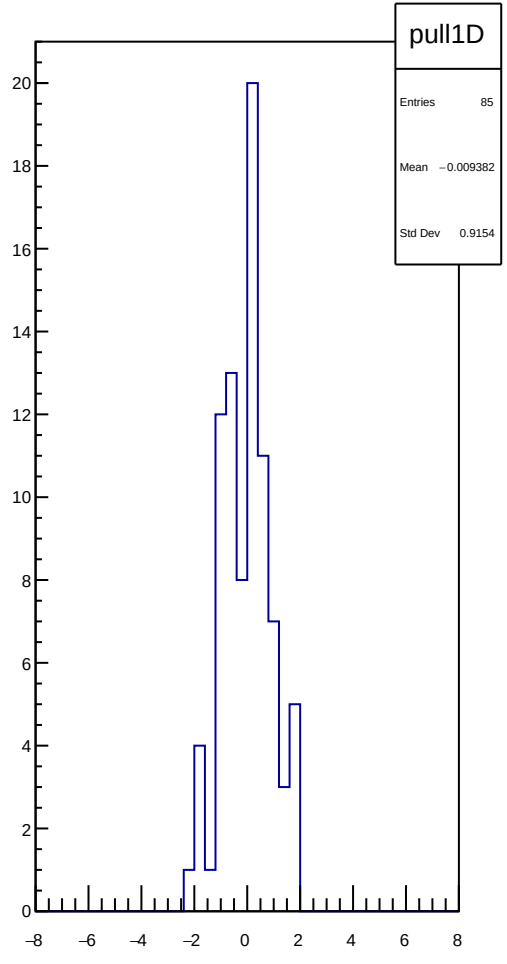

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2542 / 84
p0 487.4 ± 0.3801
540
520
500
480
460
440

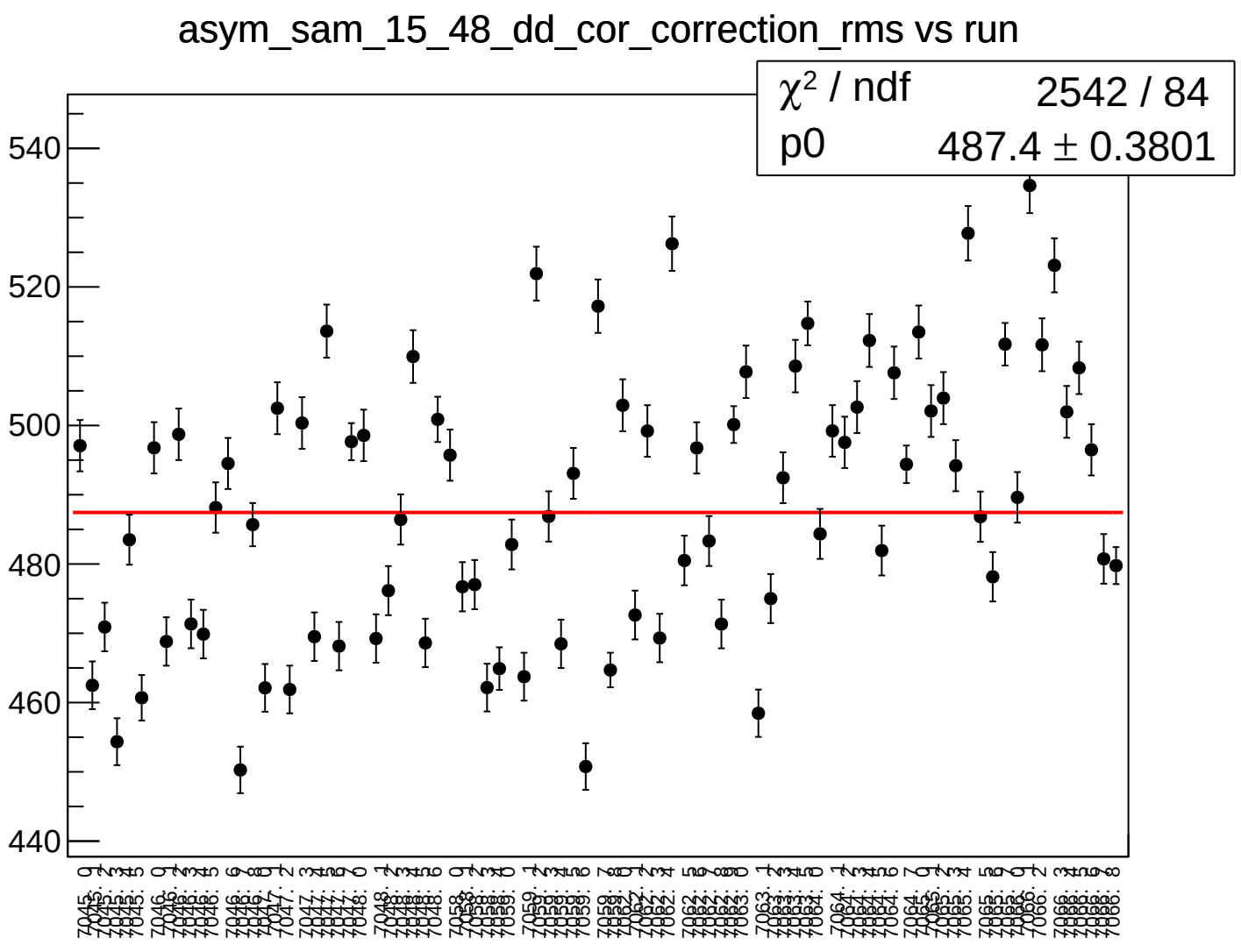

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.63 / 84
p0 −38.41 ± 55.79
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −393.5
Std Dev 0
3
2
1
0
−1
−2
−3

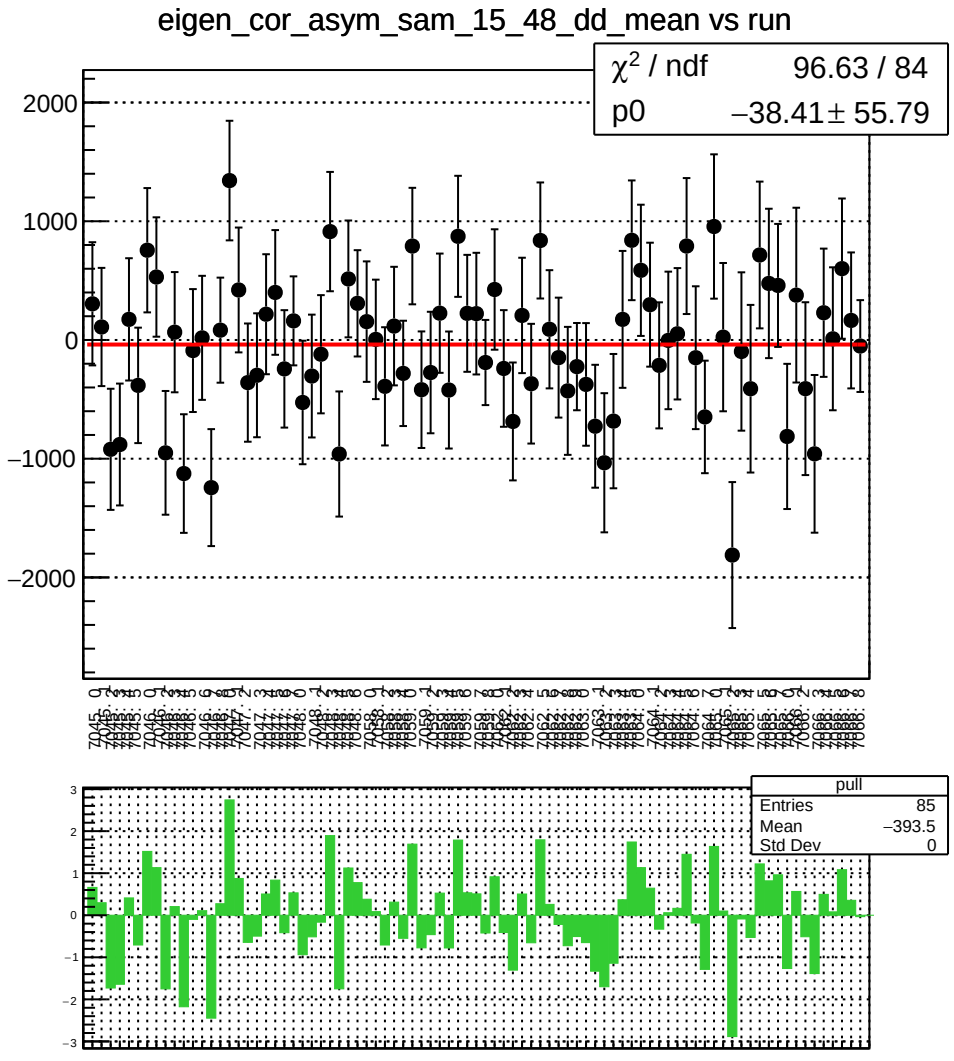

pull1D
Entries 85
Mean −0.002873
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

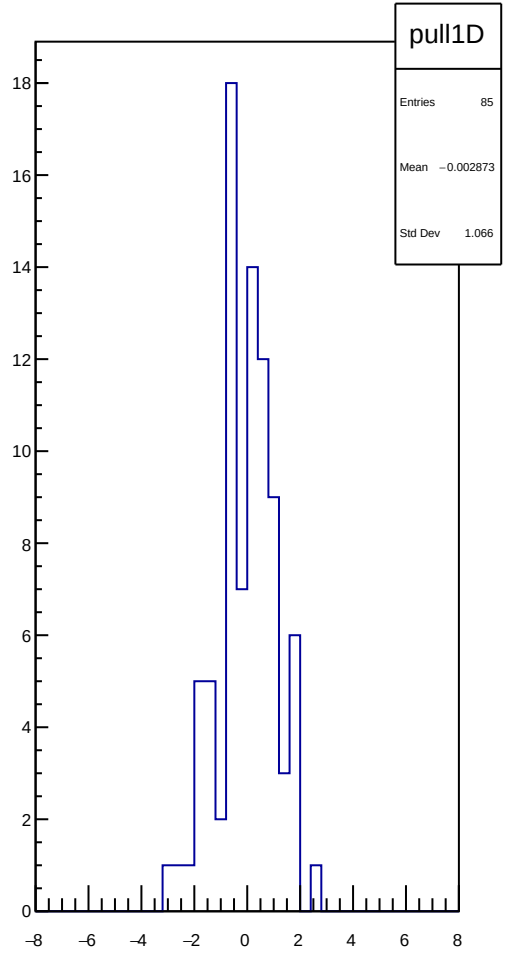

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.42e+04 / 84
p0 50.41 ± 0.03945
70
65
60
55
50
45

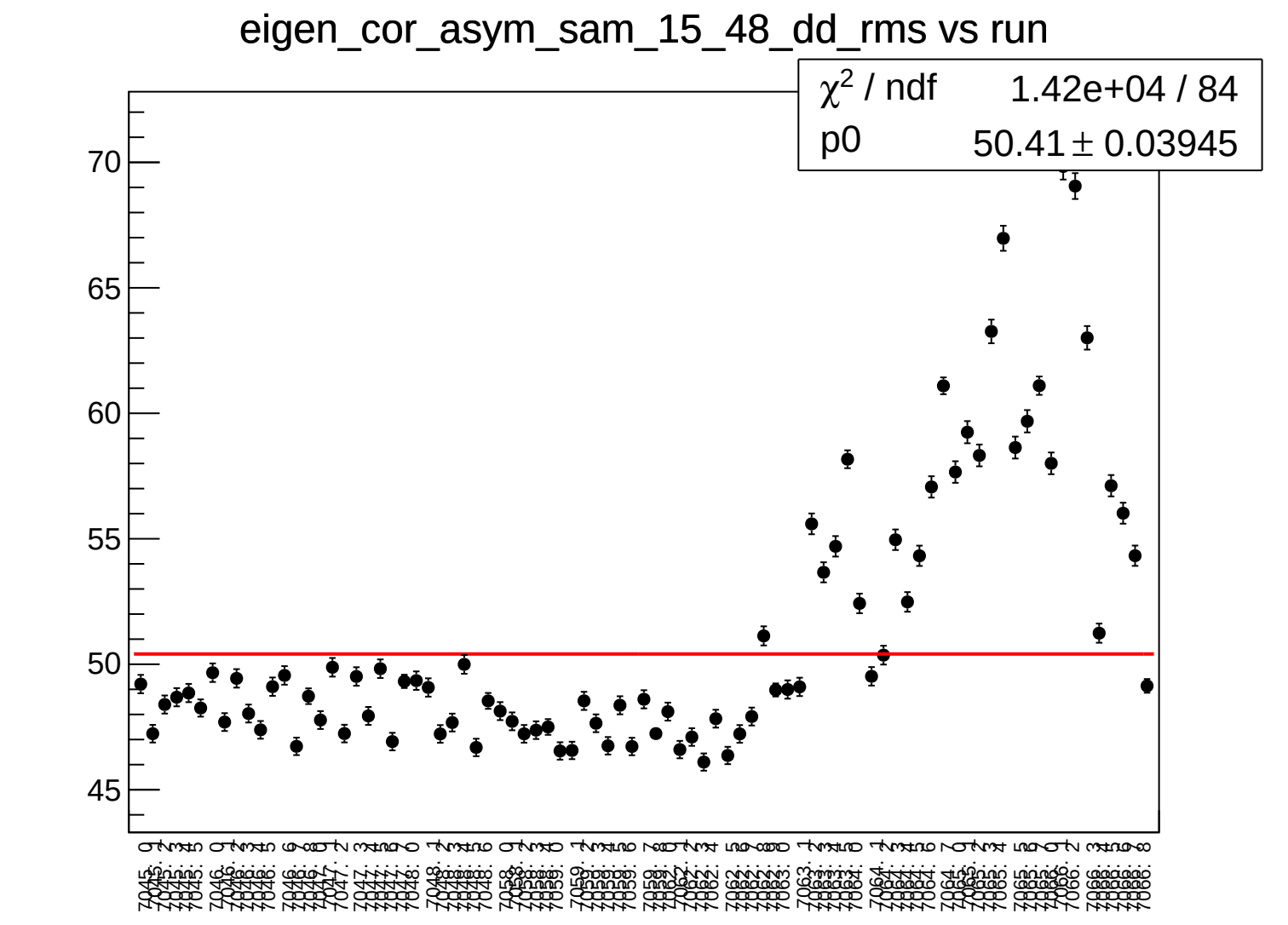

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 71.23 / 84
p0 999.9 ± 537.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −583.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

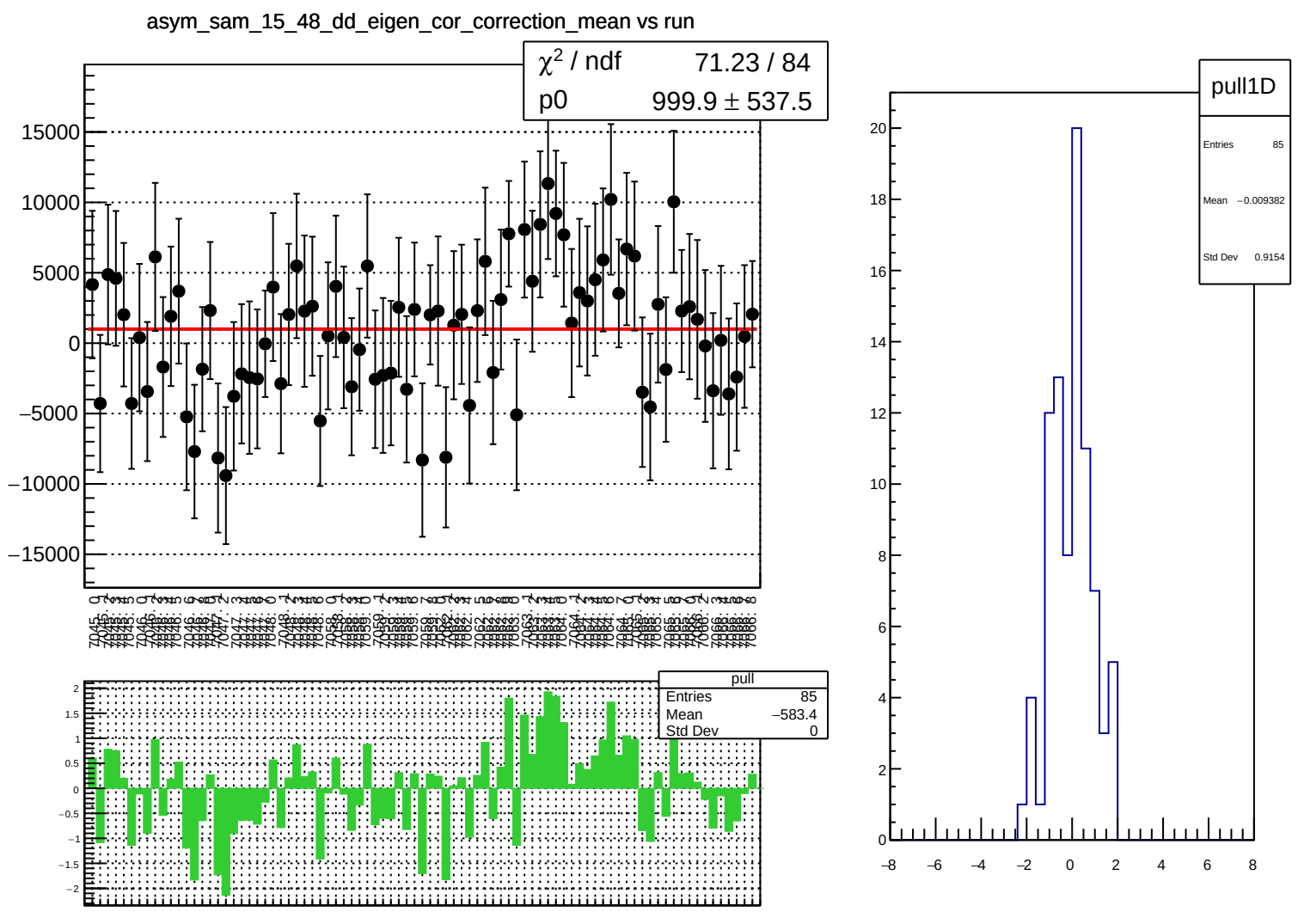

pull1D
Entries 85
Mean −0.009382
Std Dev 0.9154
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

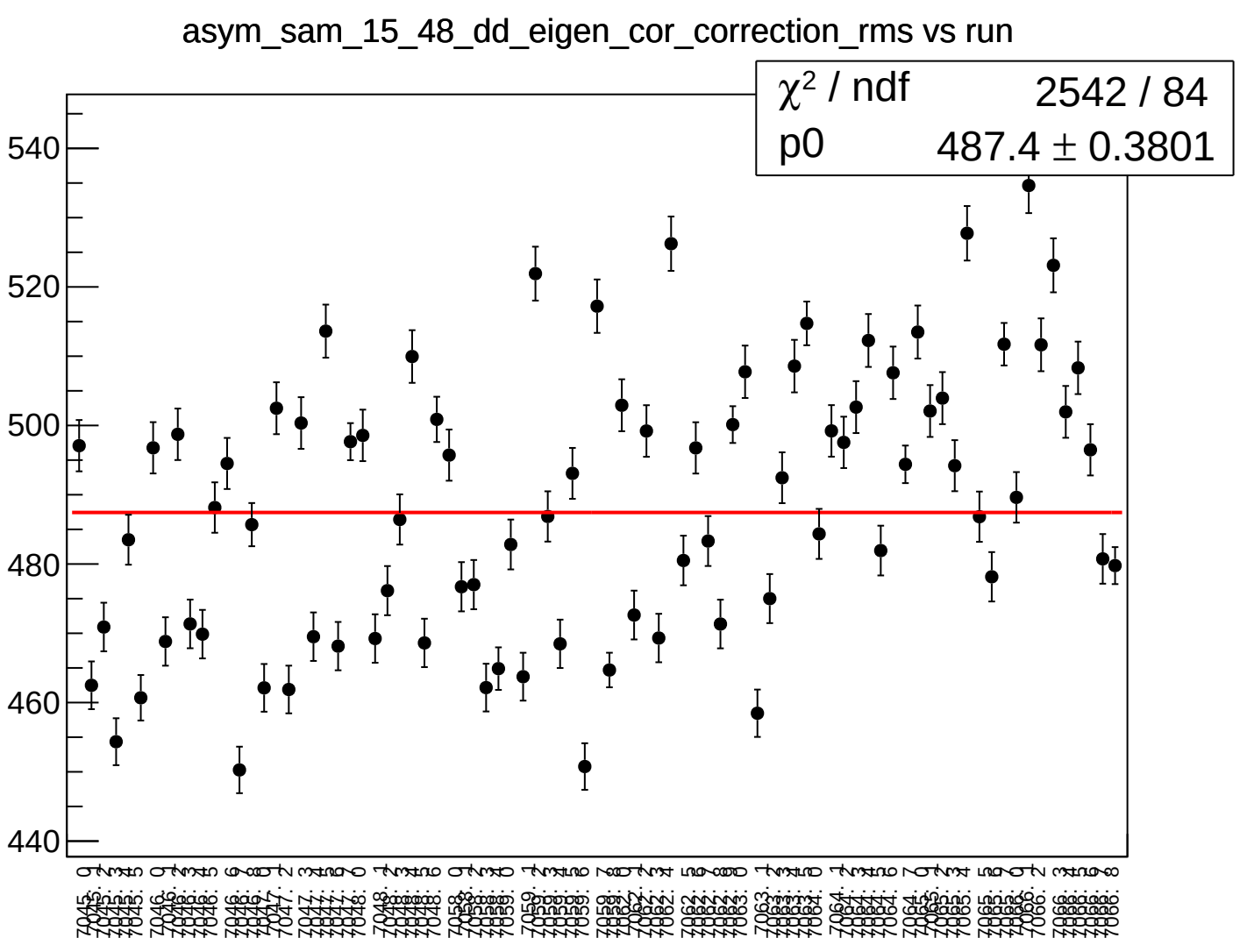

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2542 / 84
p0 487.4 ± 0.3801
540
520
500
480
460
440

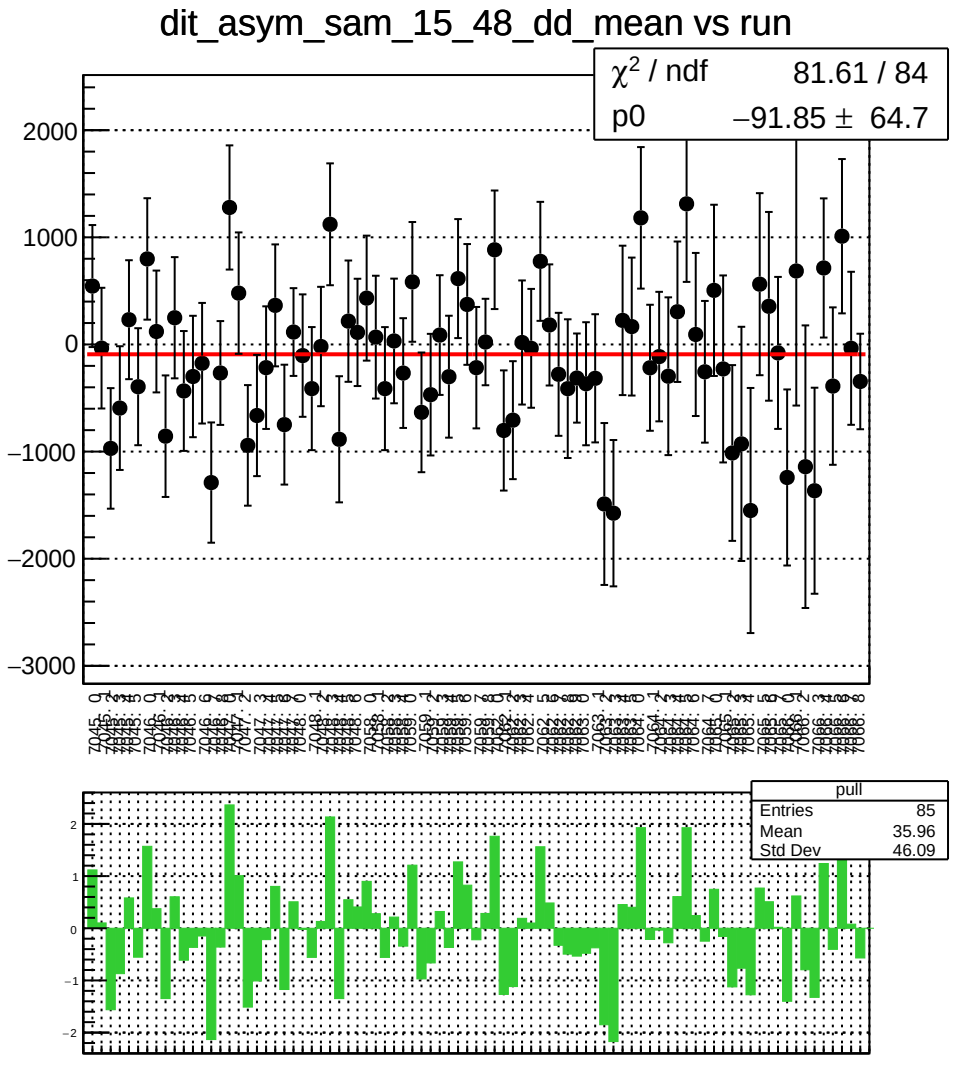

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.63 / 84
p0 −38.41 ± 55.79
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −393.5
Std Dev 0
3
2
1
0
−1
−2
−3

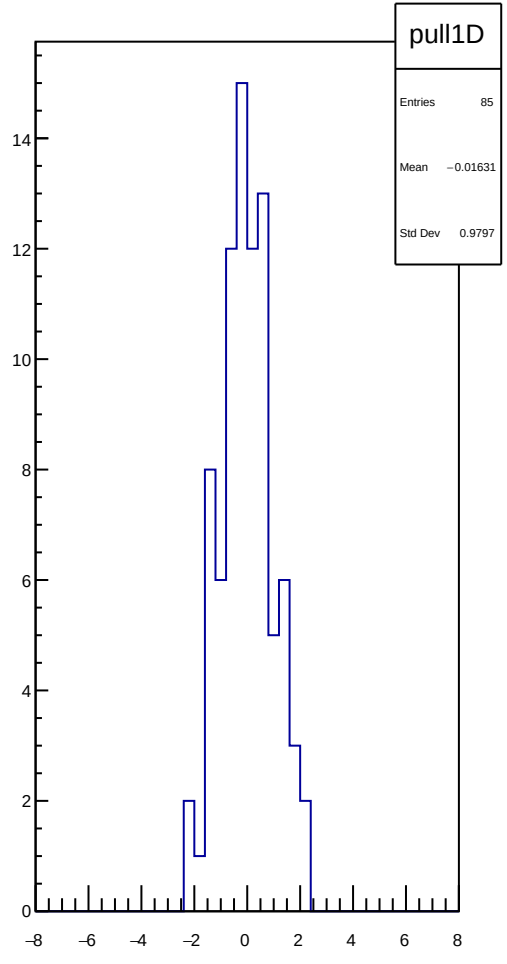

pull1D
Entries 85
Mean −0.002873
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

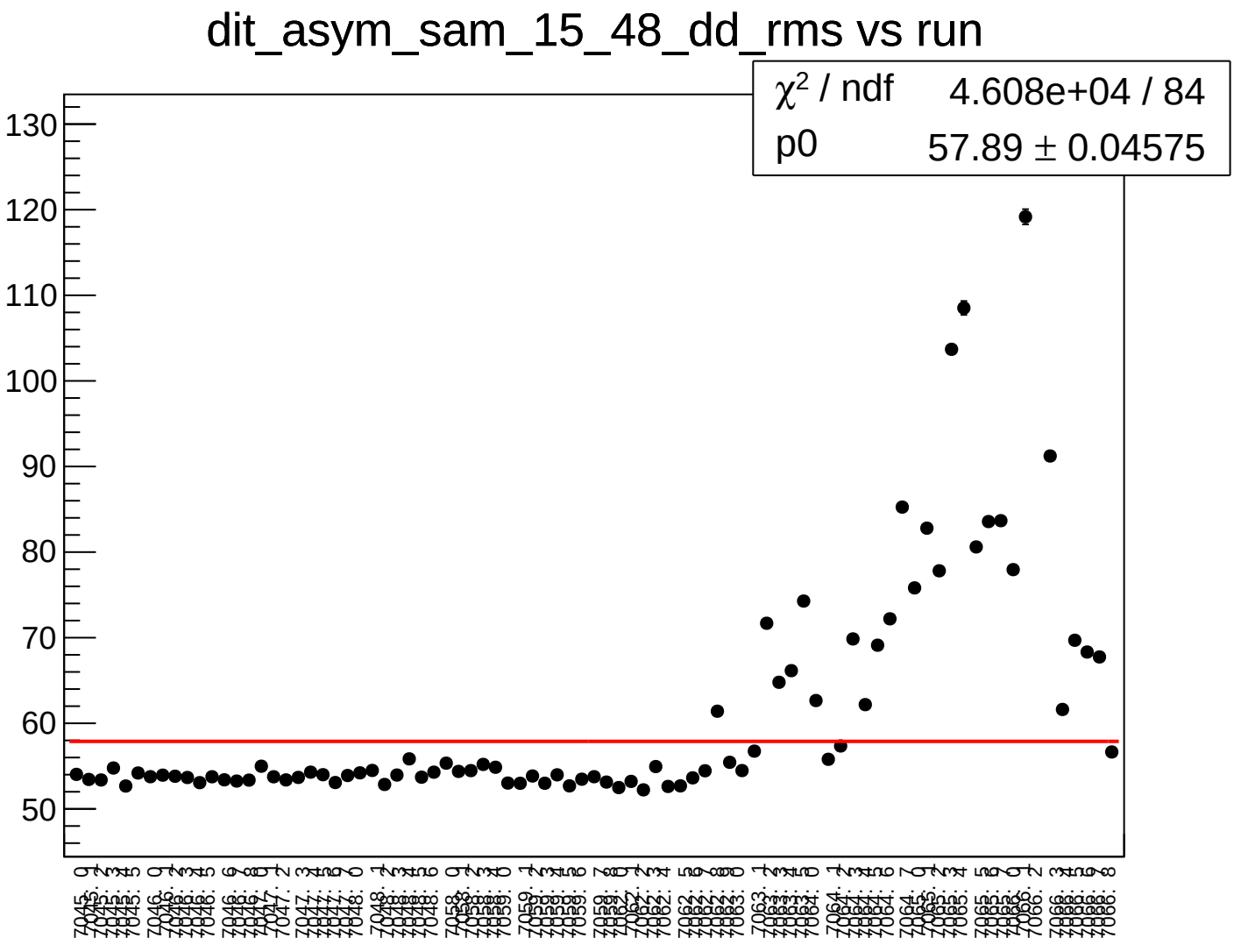

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.42e+04 / 84
p0 50.41 ± 0.03945
70
65
60
55
50
45

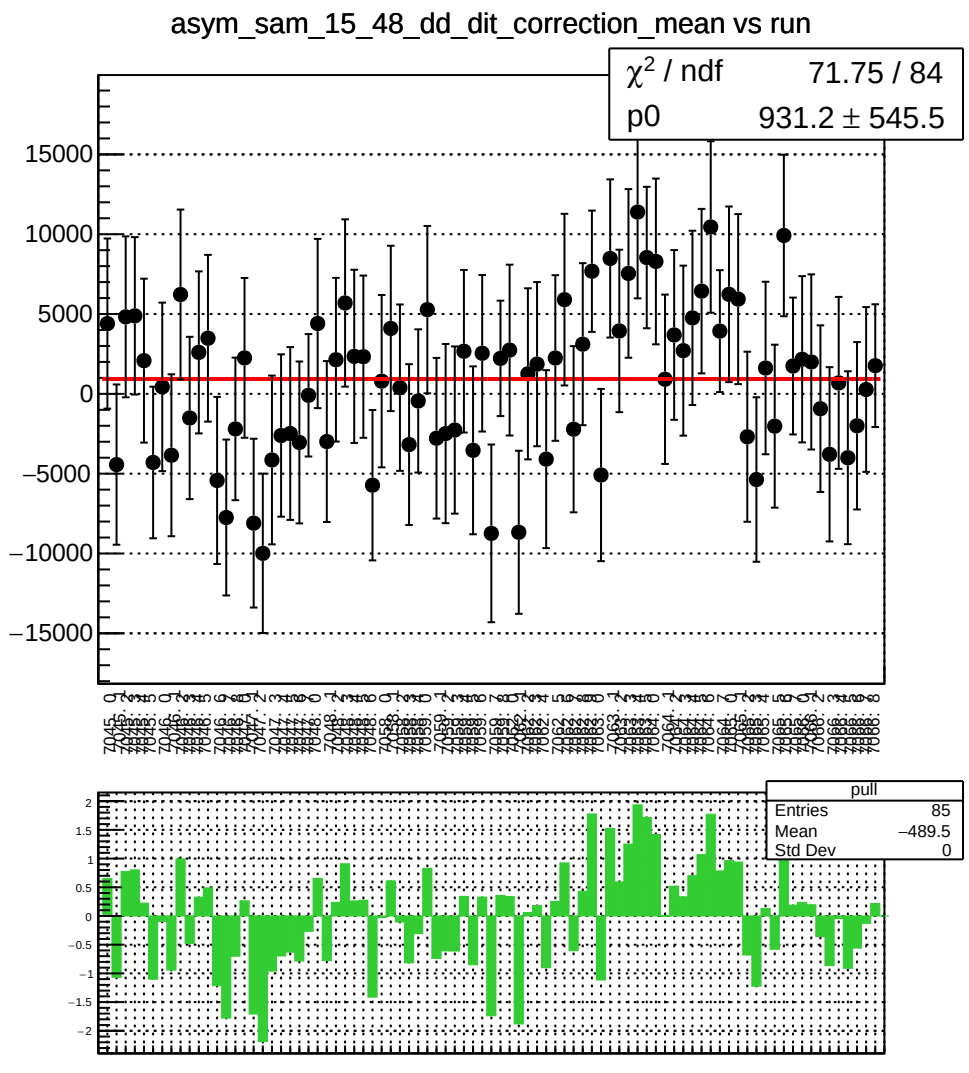

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.23 / 84
p0 999.9 ± 537.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −583.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.009382
Std Dev 0.9154
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

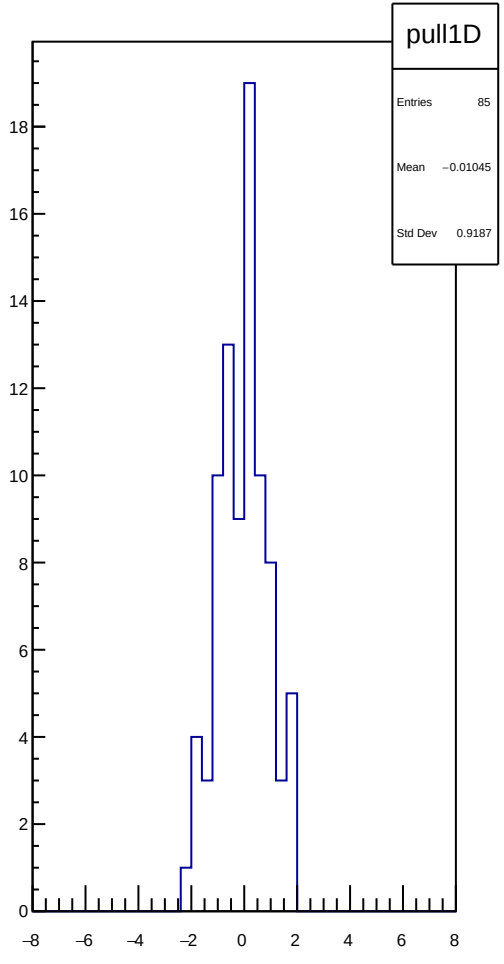

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2542 / 84
p0 487.4 ± 0.3801
540
520
500
480
460
440

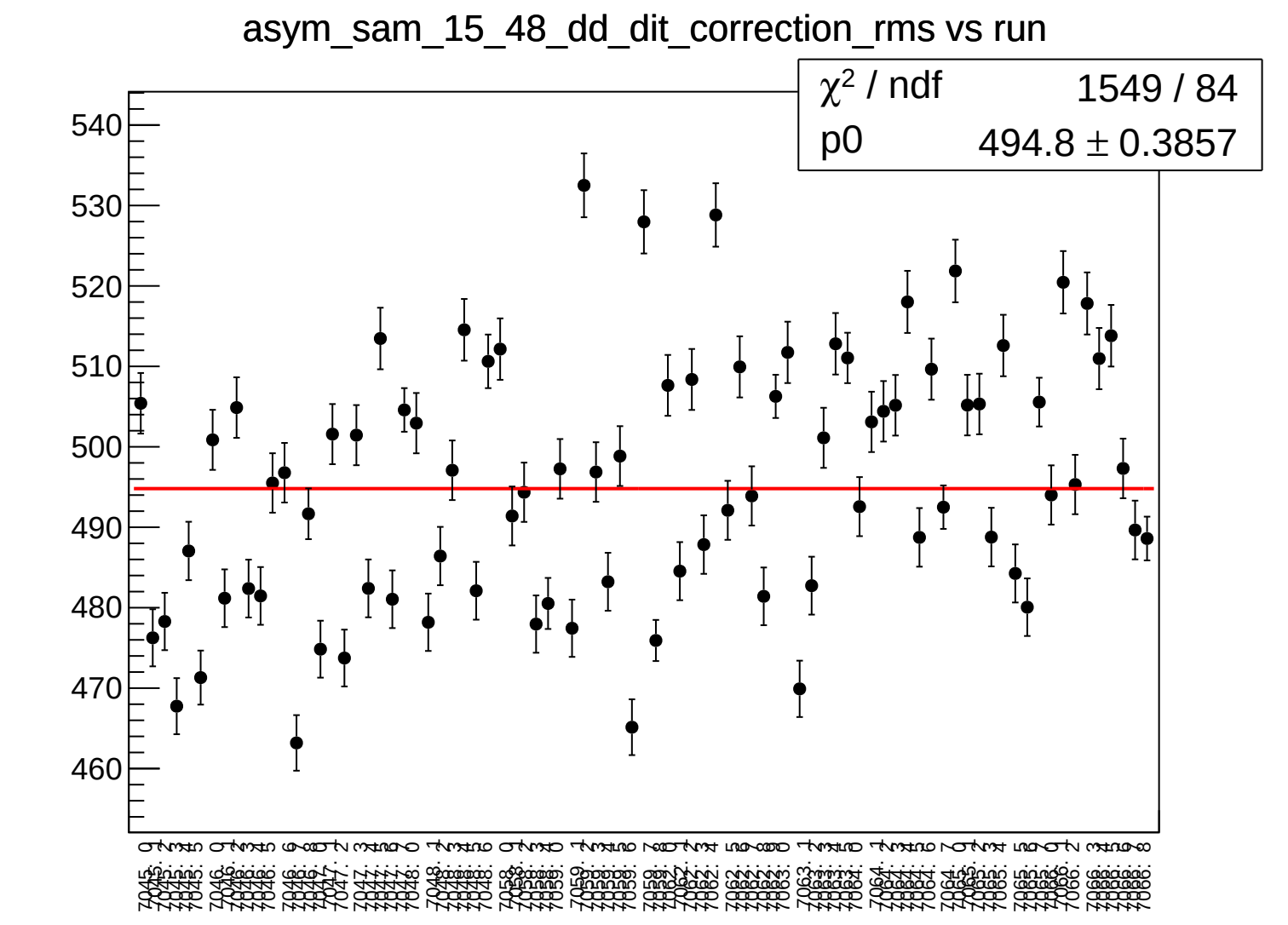

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.61 / 84
p0 −91.85 ± 64.7
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 35.96
Std Dev 46.09
2
1
0
−1
−2

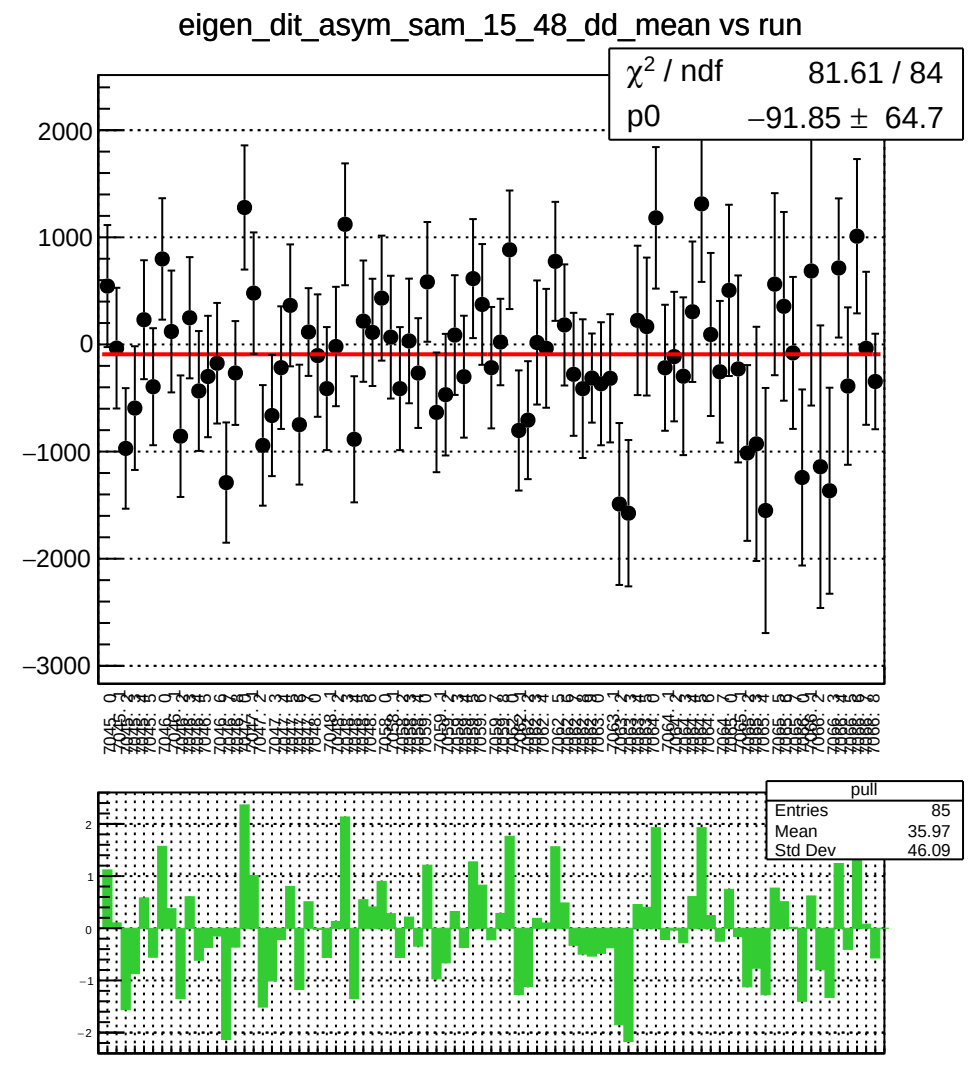

pull1D
Entries 85
Mean −0.01631
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

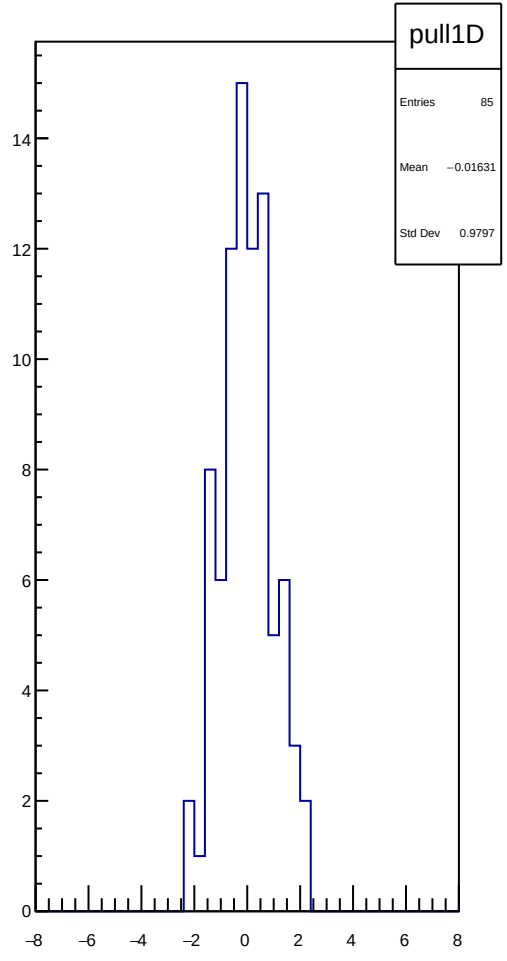

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.608e+04 / 84
p0 57.89 ± 0.04575
130
120
110
100
90
80
70
60
50

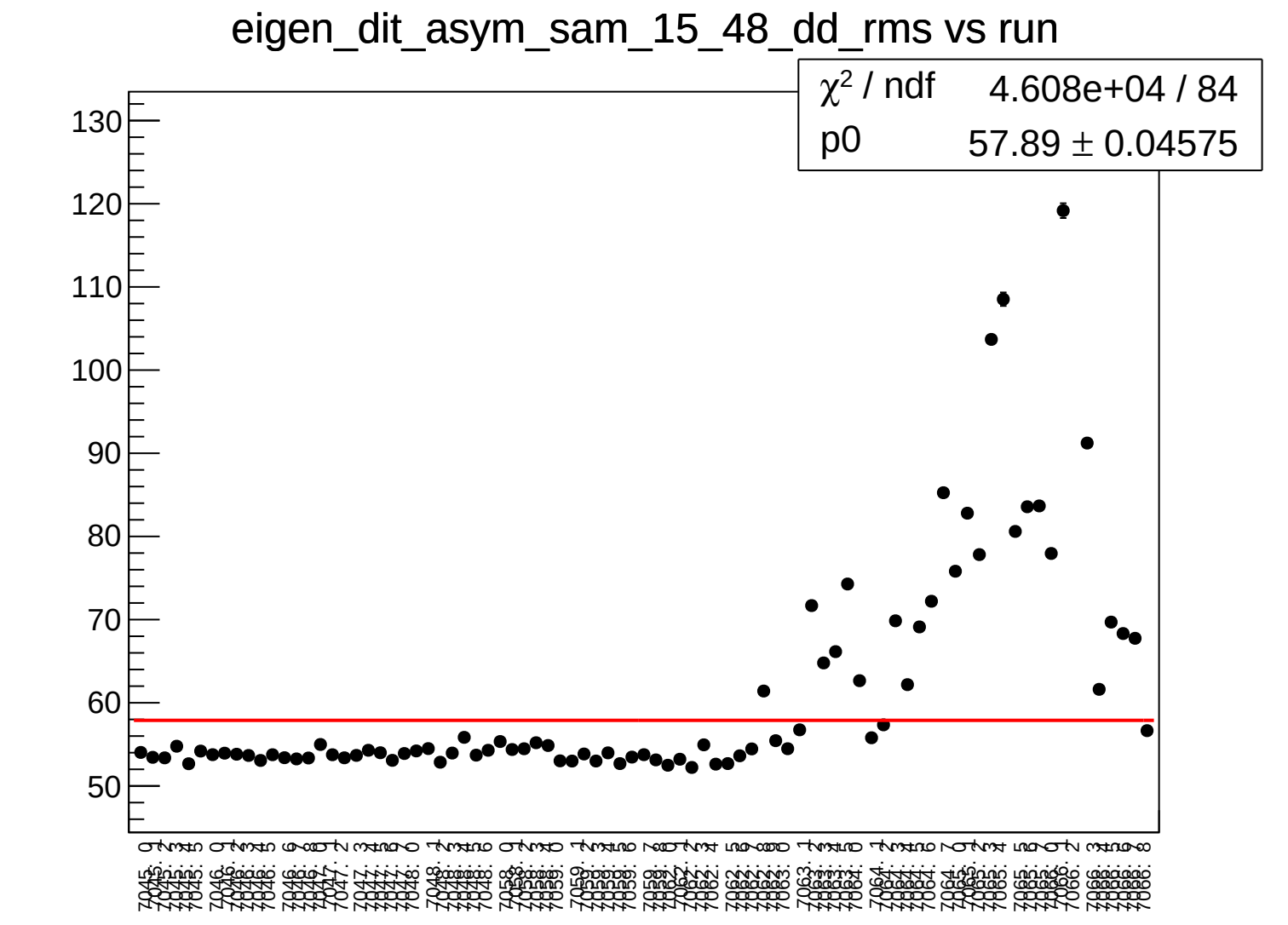

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 71.75 / 84
p0 931.2 ± 545.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −489.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

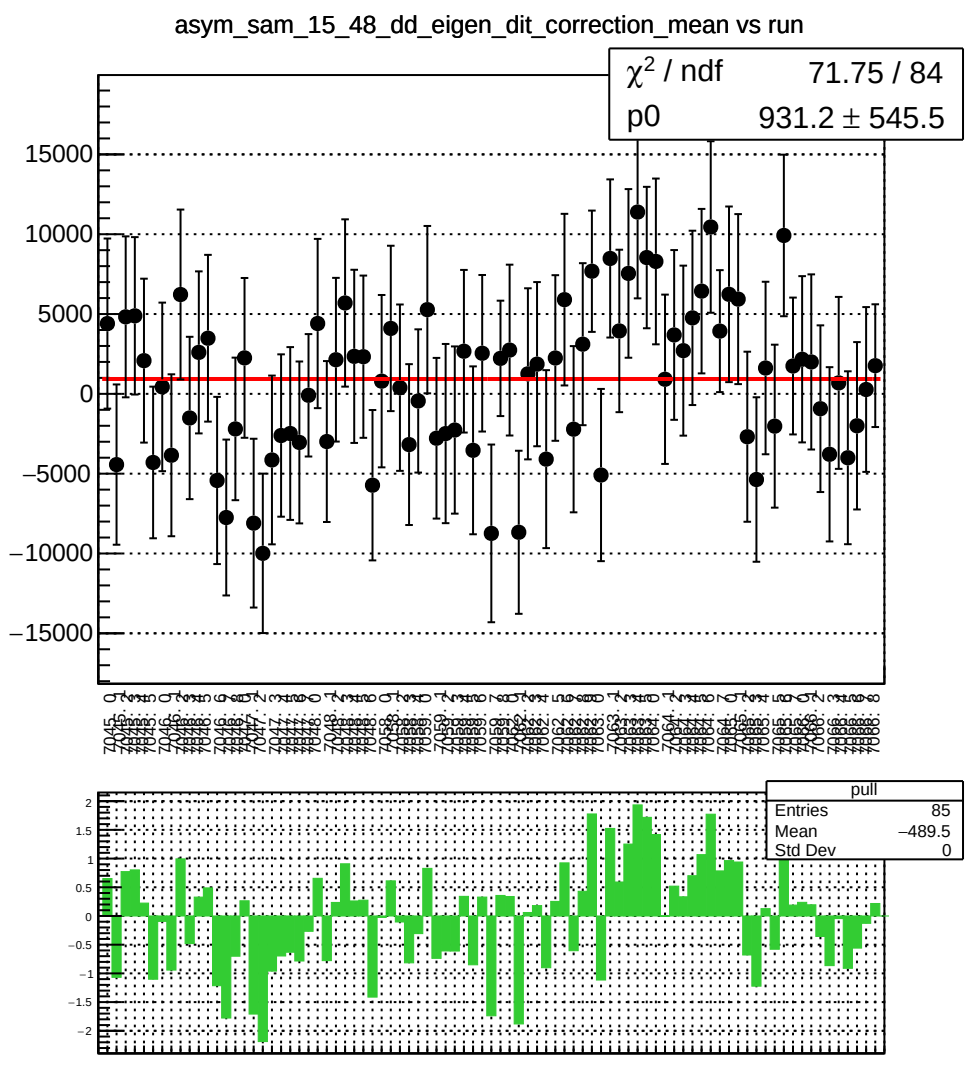

pull1D
Entries 85
Mean −0.01045
Std Dev 0.9187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

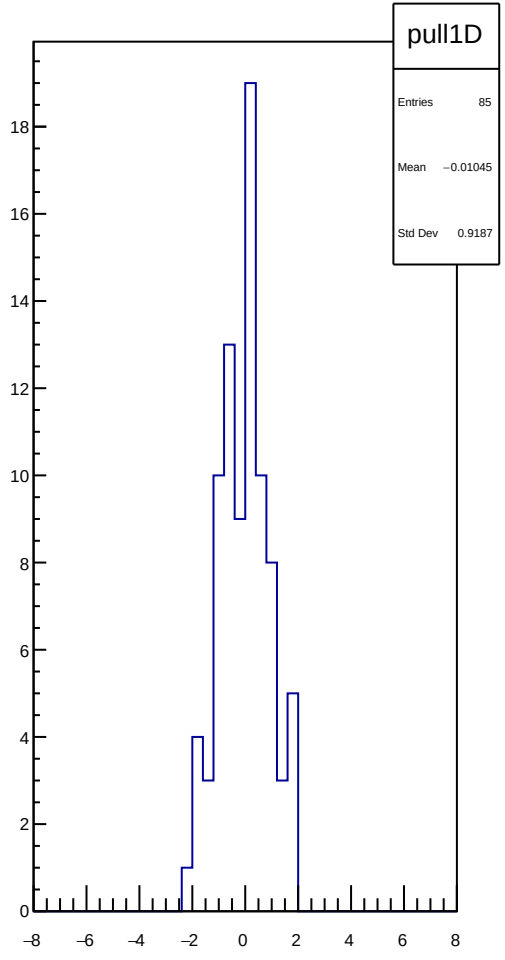

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1549 / 84
p0 494.8 ± 0.3857
540
530
520
510
500
490
480
470
460

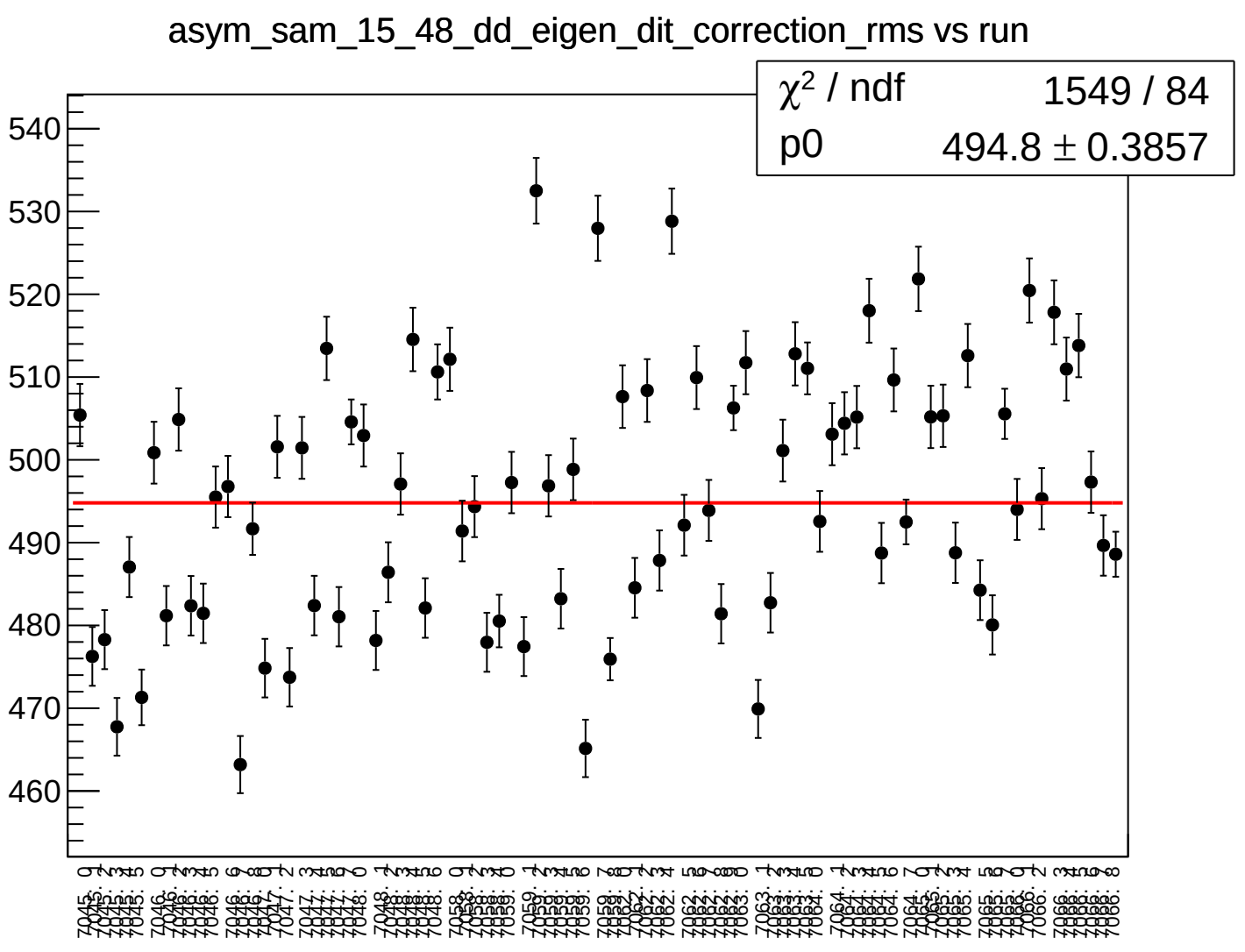

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.61 / 84
p0 −91.85 ± 64.7
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 35.97
Std Dev 46.09
2
1
0
−1
−2

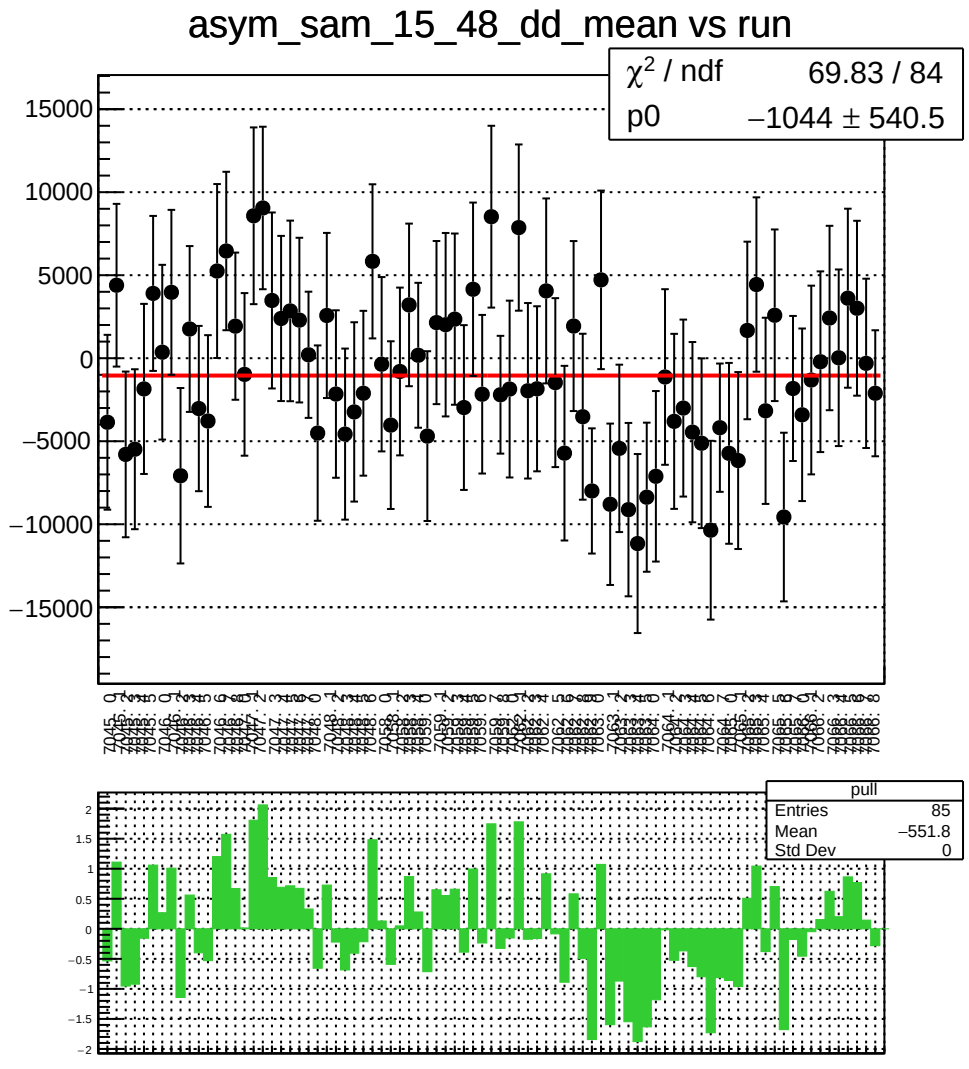

pull1D
Entries 85
Mean −0.01631
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

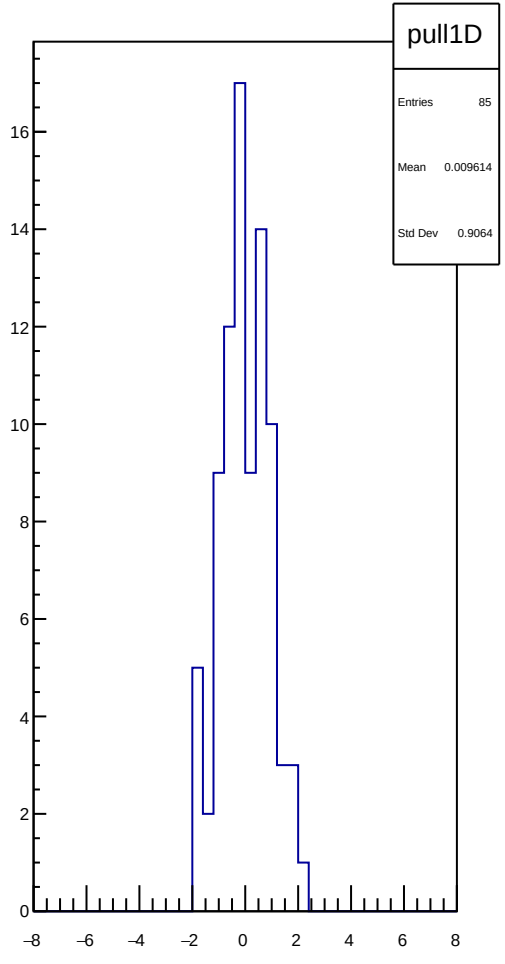

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.608e+04 / 84
p0 57.89 ± 0.04575
130
120
110
100
90
80
70
60
50

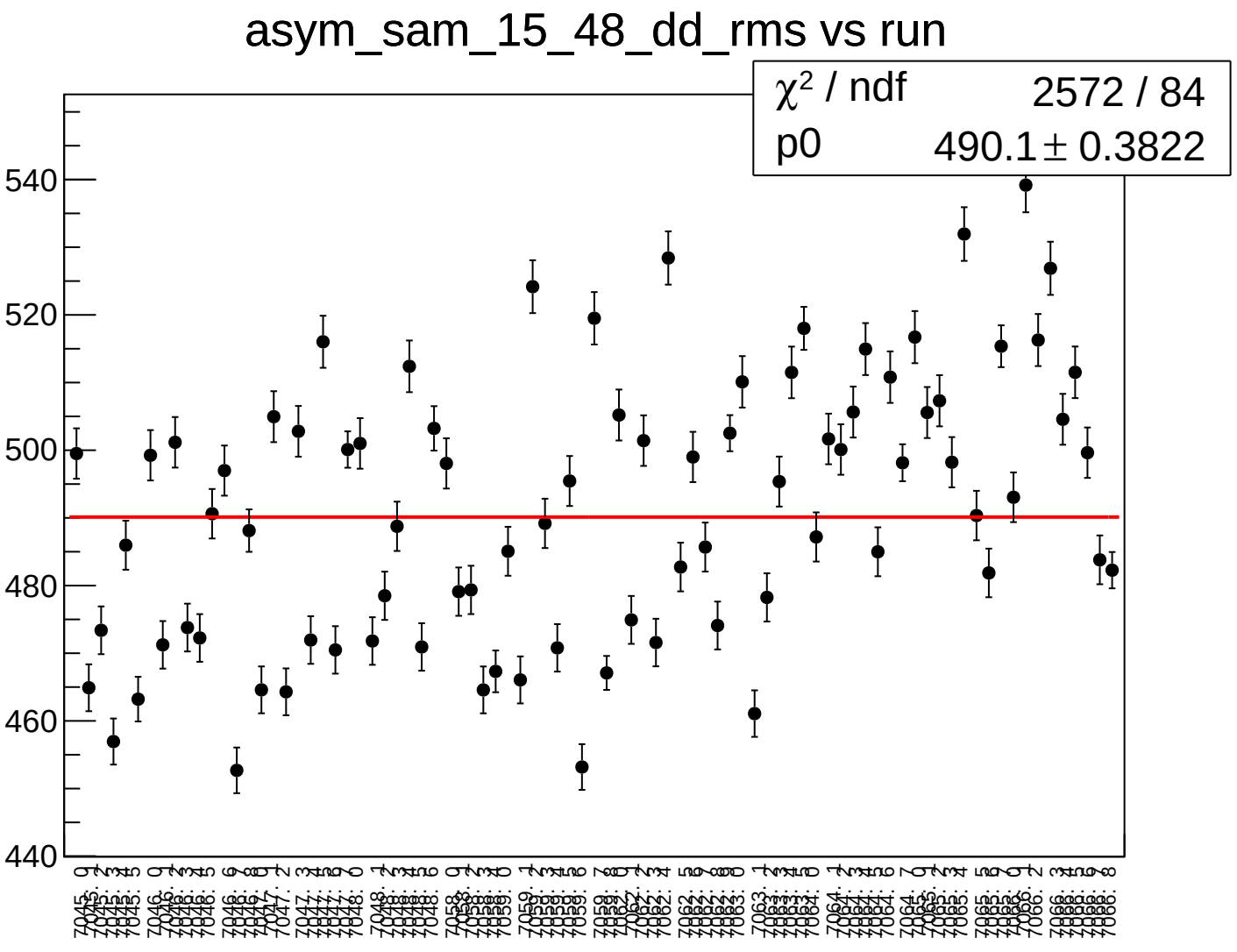

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.75 / 84
p0 931.2 ± 545.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −489.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

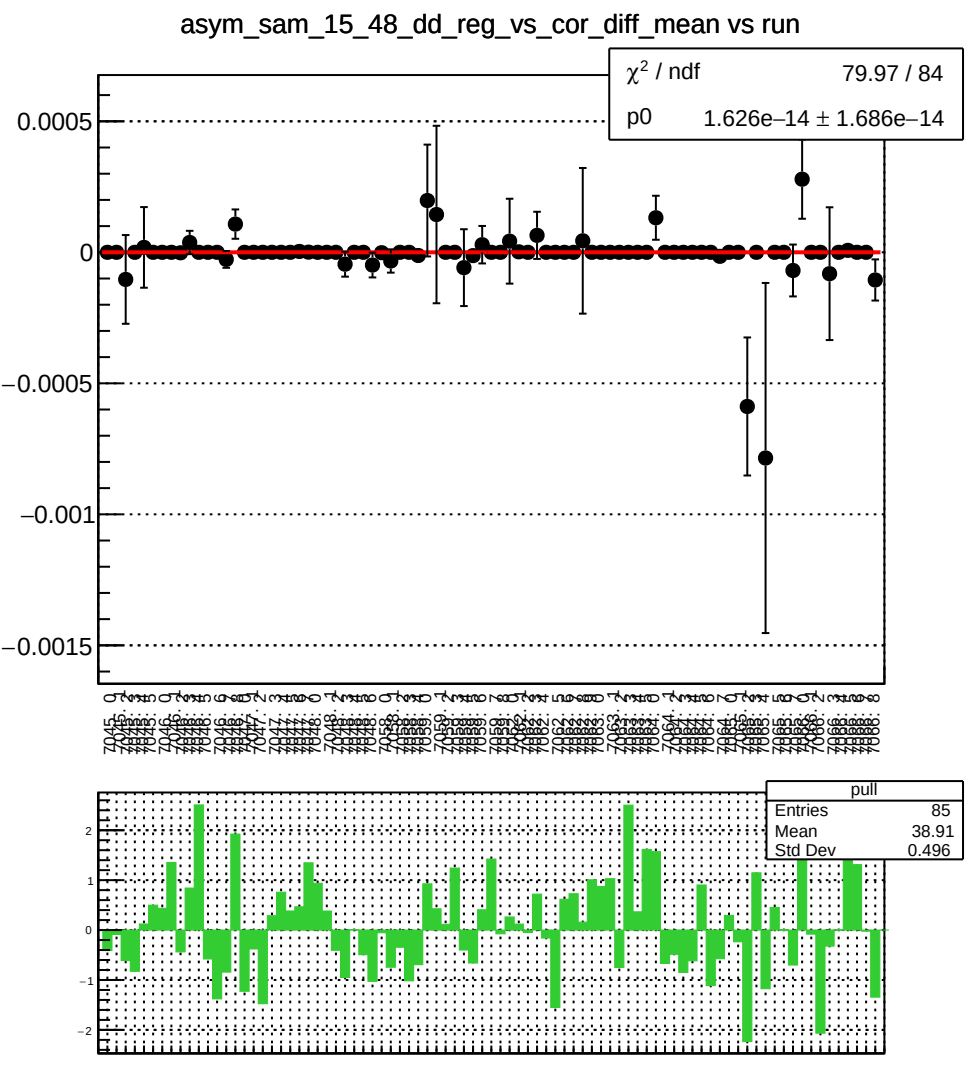

pull1D
Entries 85
Mean −0.01045
Std Dev 0.9187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

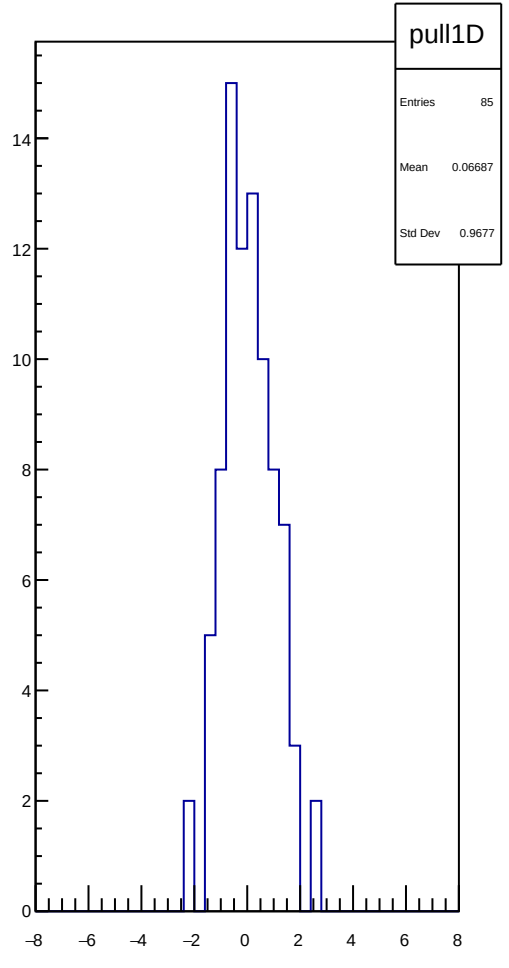

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1549 / 84
p0 494.8 ± 0.3857
540
530
520
510
500
490
480
470
460

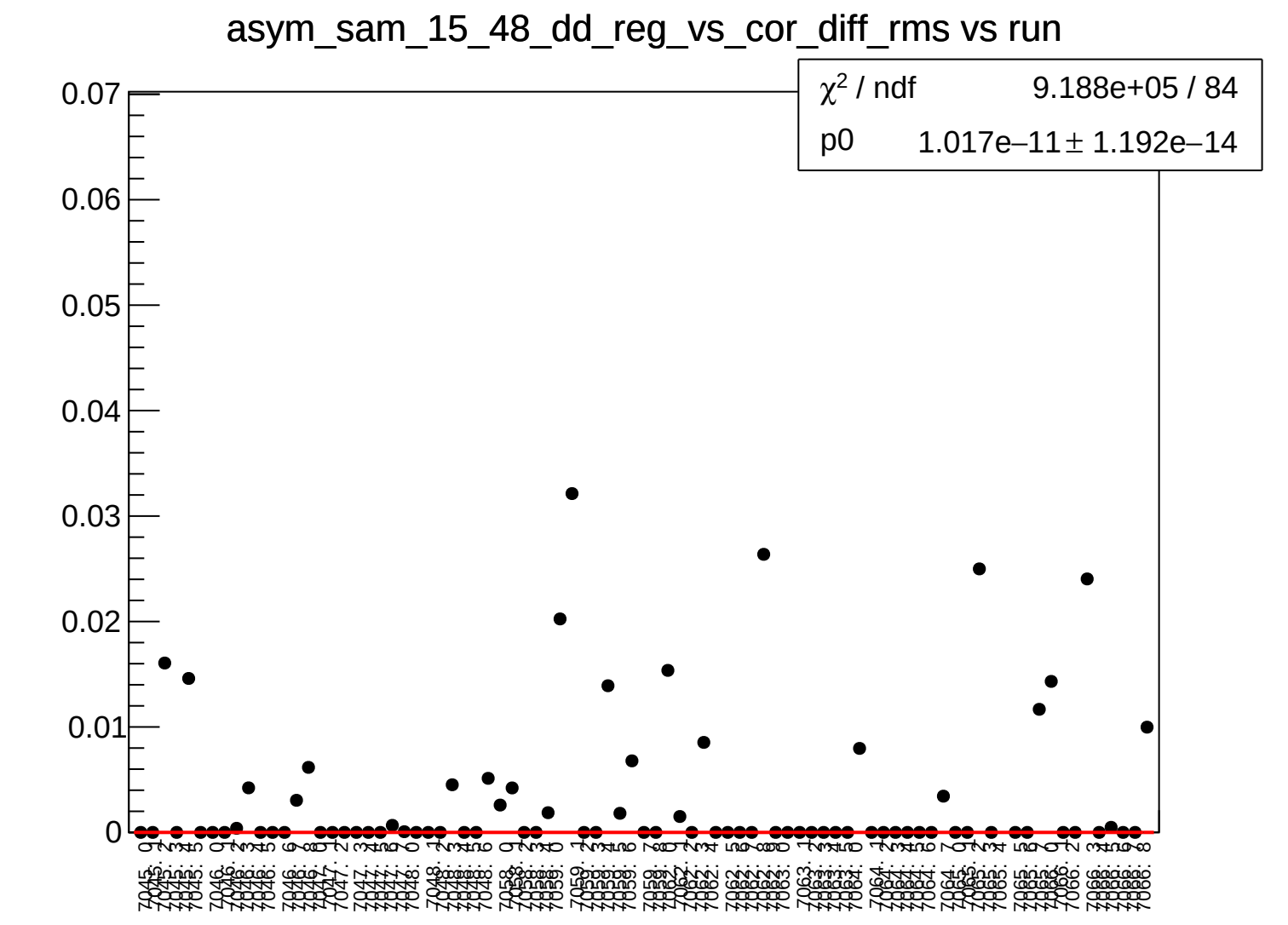

asym_sam_15_48_dd_mean vs run
χ² / ndf 69.83 / 84
p0 −1044 ± 540.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −551.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

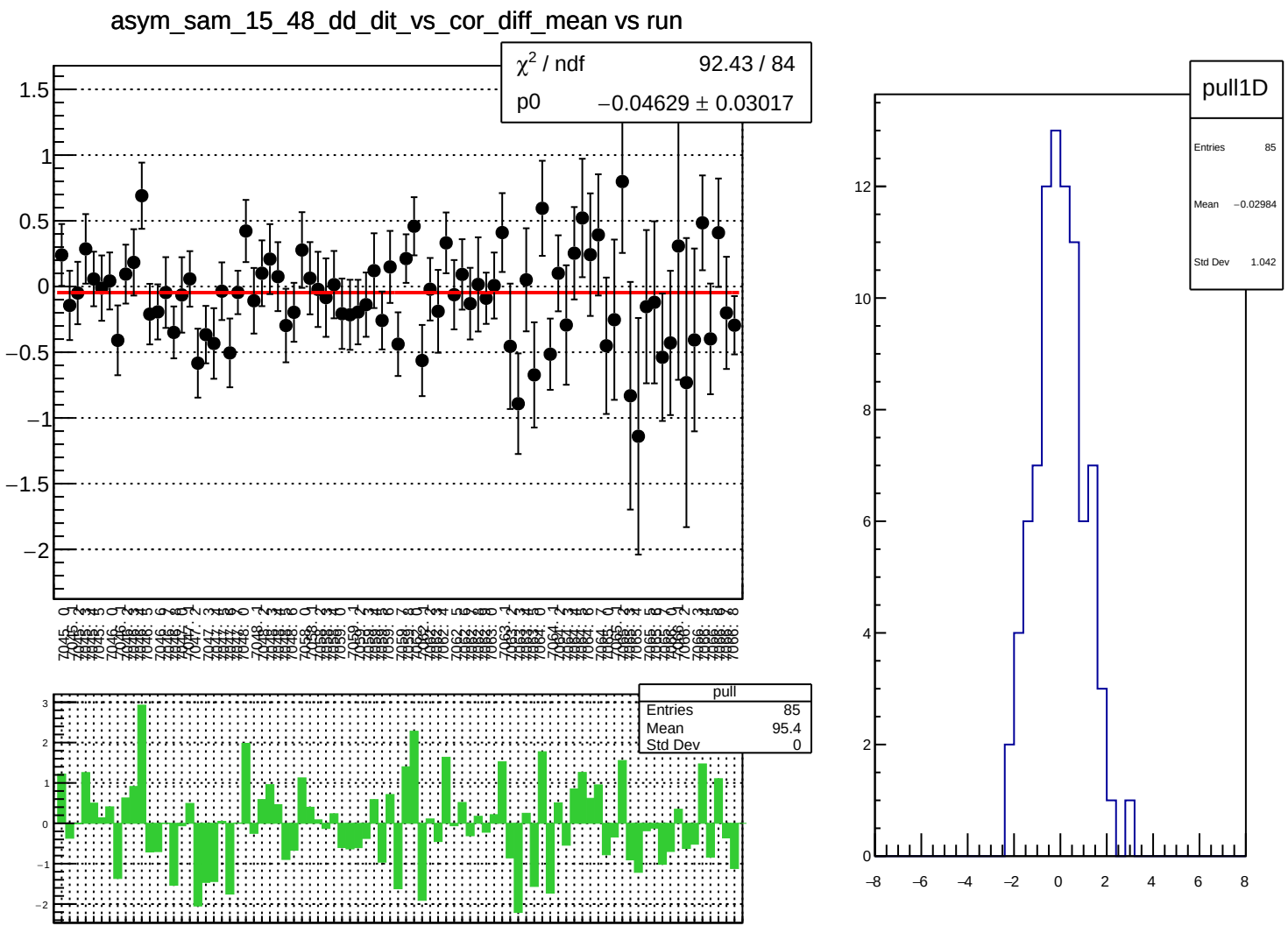

pull1D
Entries 85
Mean 0.009614
Std Dev 0.9064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

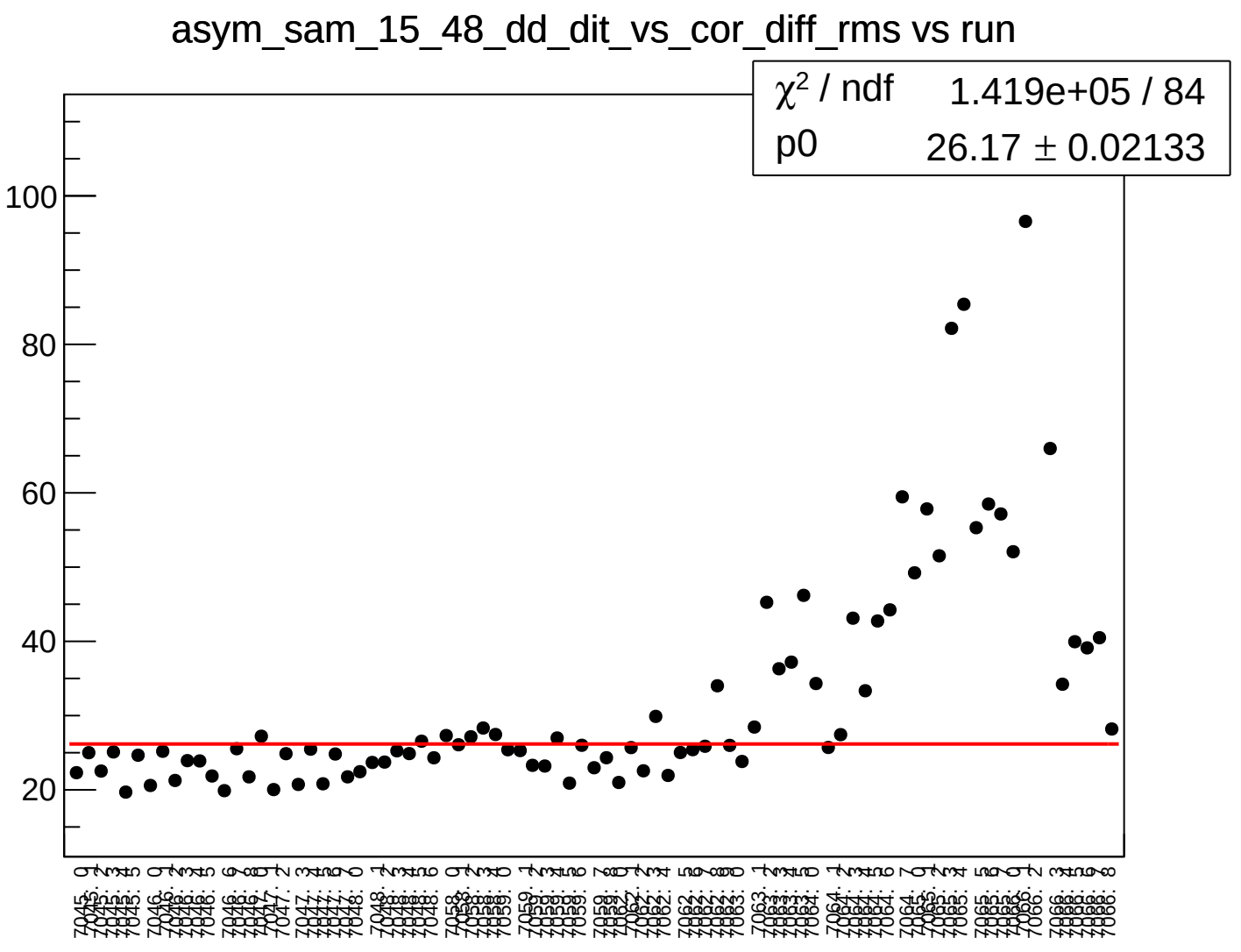

asym_sam_15_48_dd_rms vs run
χ² / ndf 2572 / 84
p0 490.1 ± 0.3822
540
520
500
480
460
440

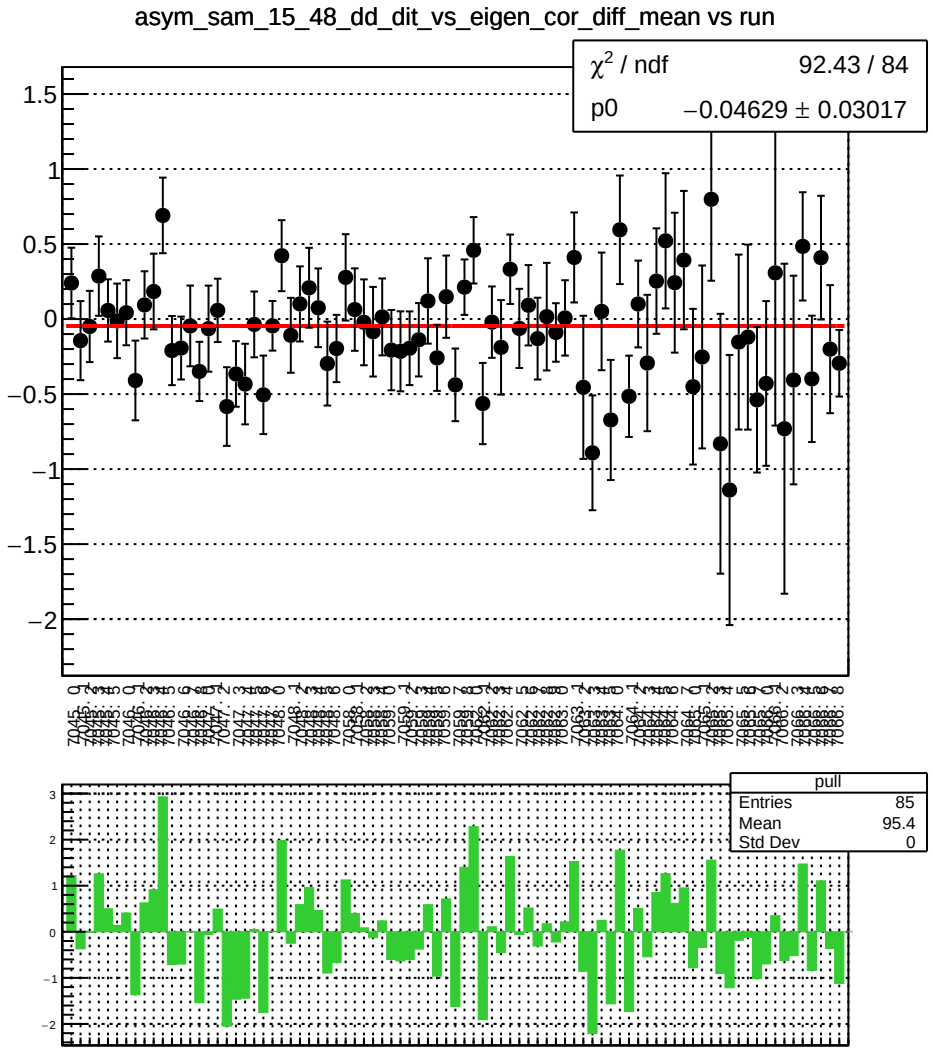

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.97 / 84
p0 1.626e−14 ± 1.686e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 38.91
Std Dev 0.496
2
1
0
−1
−2

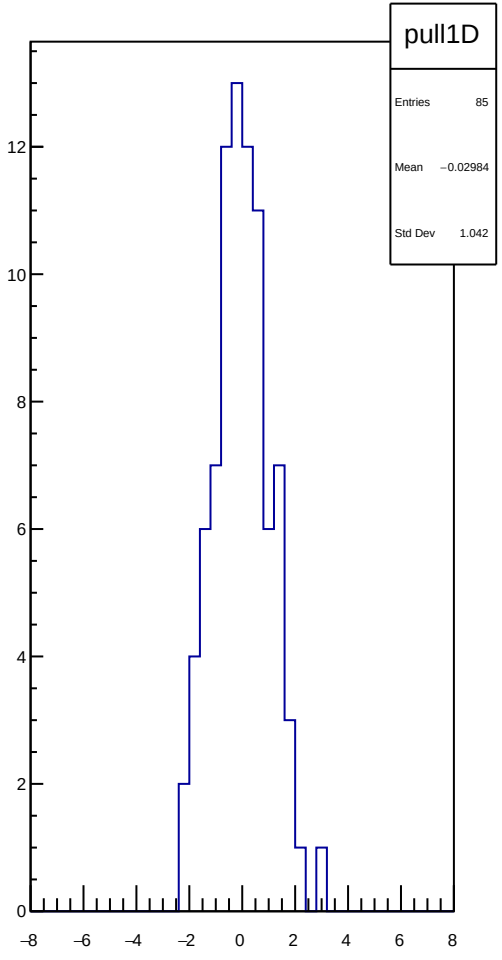

pull1D
Entries 85
Mean 0.06687
Std Dev 0.9677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

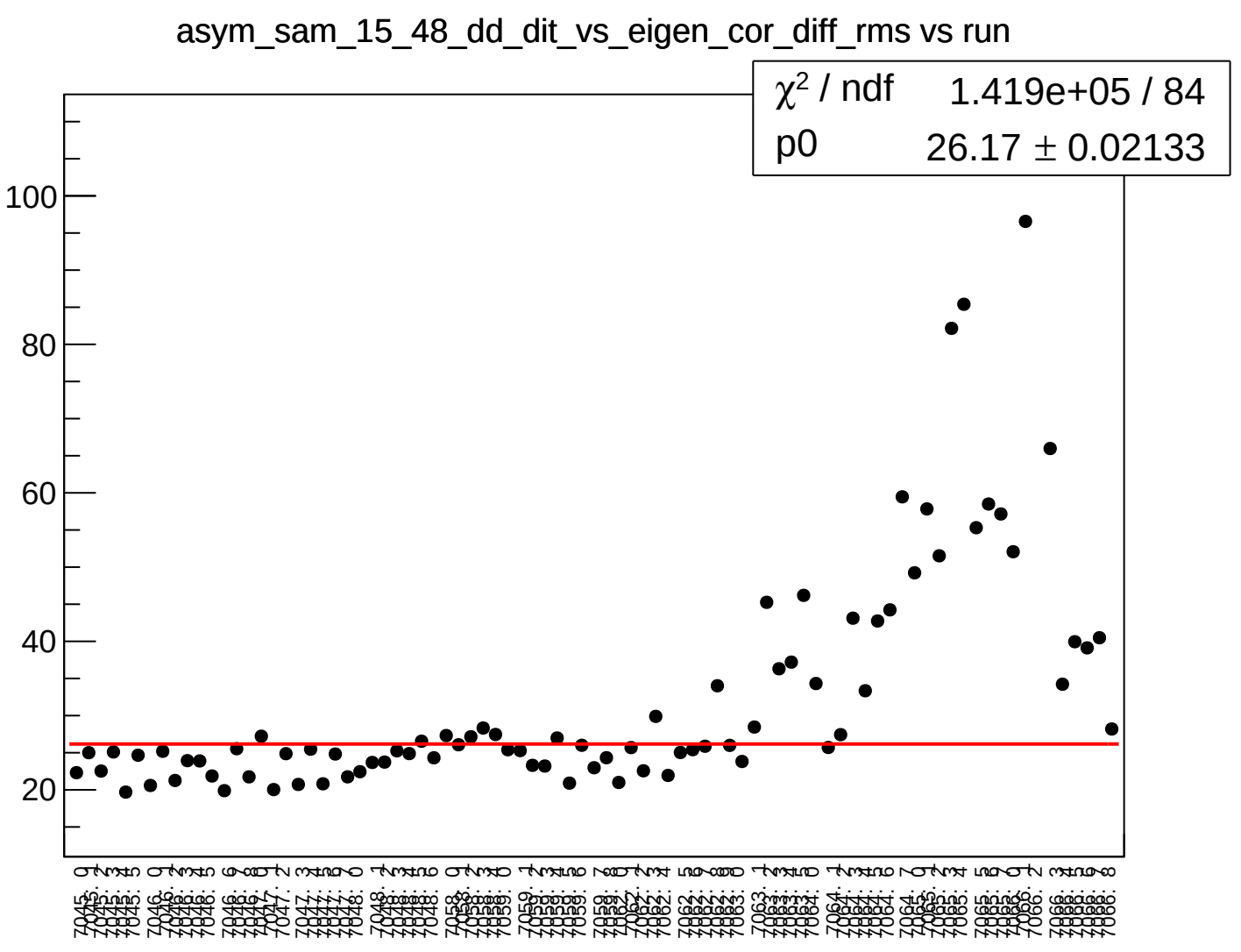

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.188e+05 / 84
p0 1.017e−11 ± 1.192e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

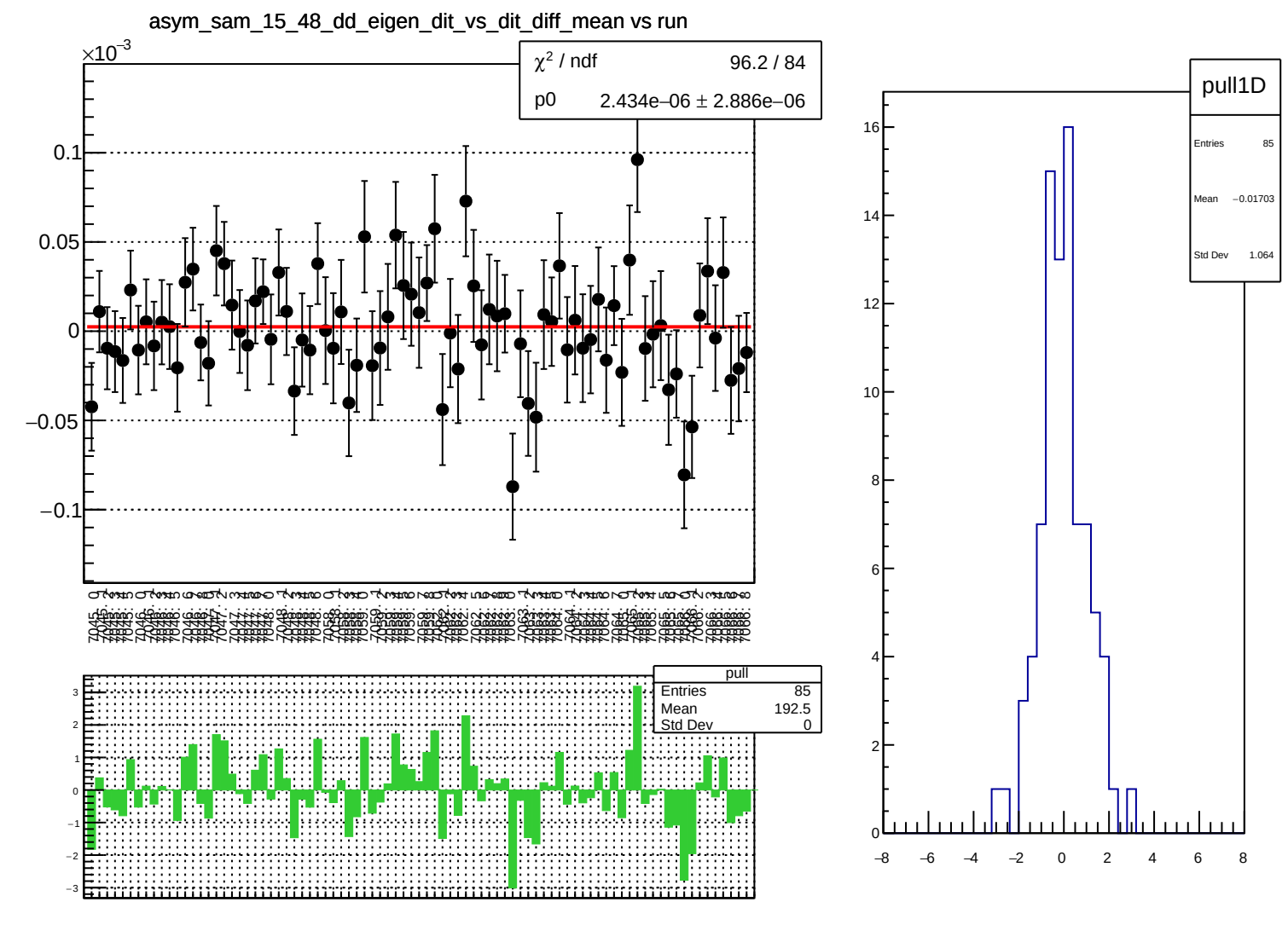

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 84
p0 −0.04629 ± 0.03017
pull
Entries 85
Mean 95.4
Std Dev 0
pull1D
Entries 85
Mean −0.02984
Std Dev 1.042

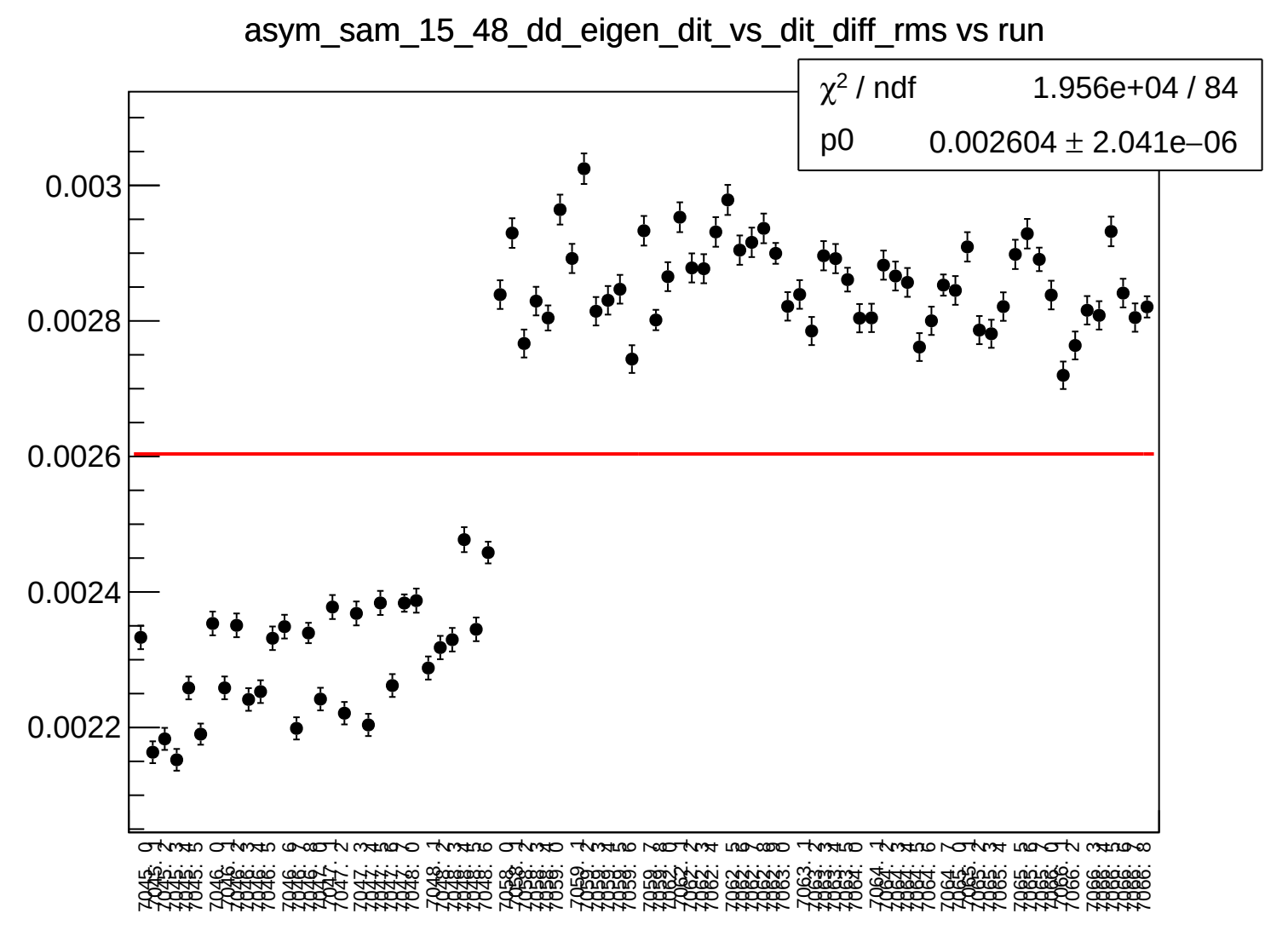

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.419e+05 / 84
p0 26.17 ± 0.02133
100
80
60
40
20

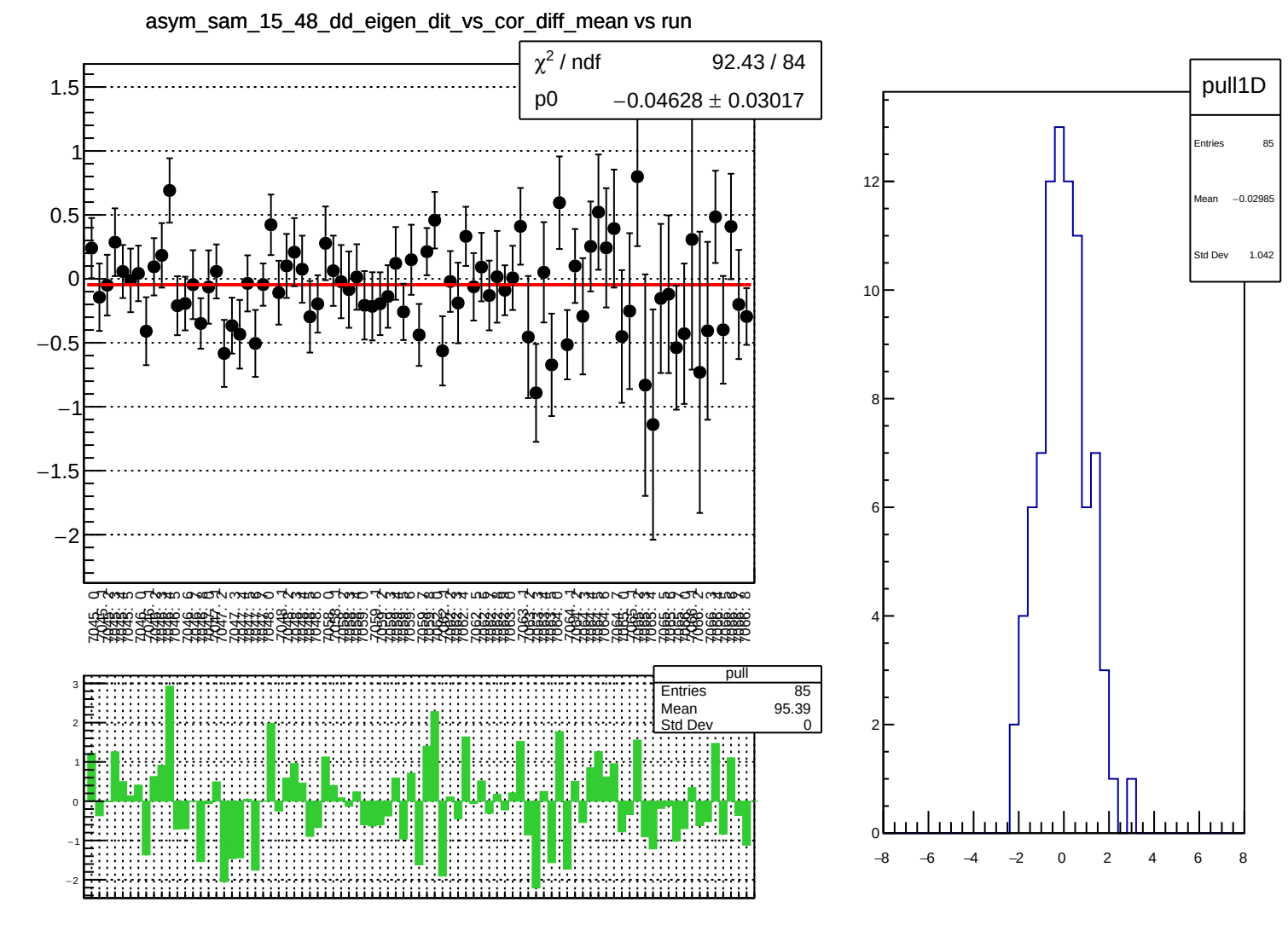

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 84
p0 −0.04629 ± 0.03017
pull
Entries 85
Mean 95.4
Std Dev 0

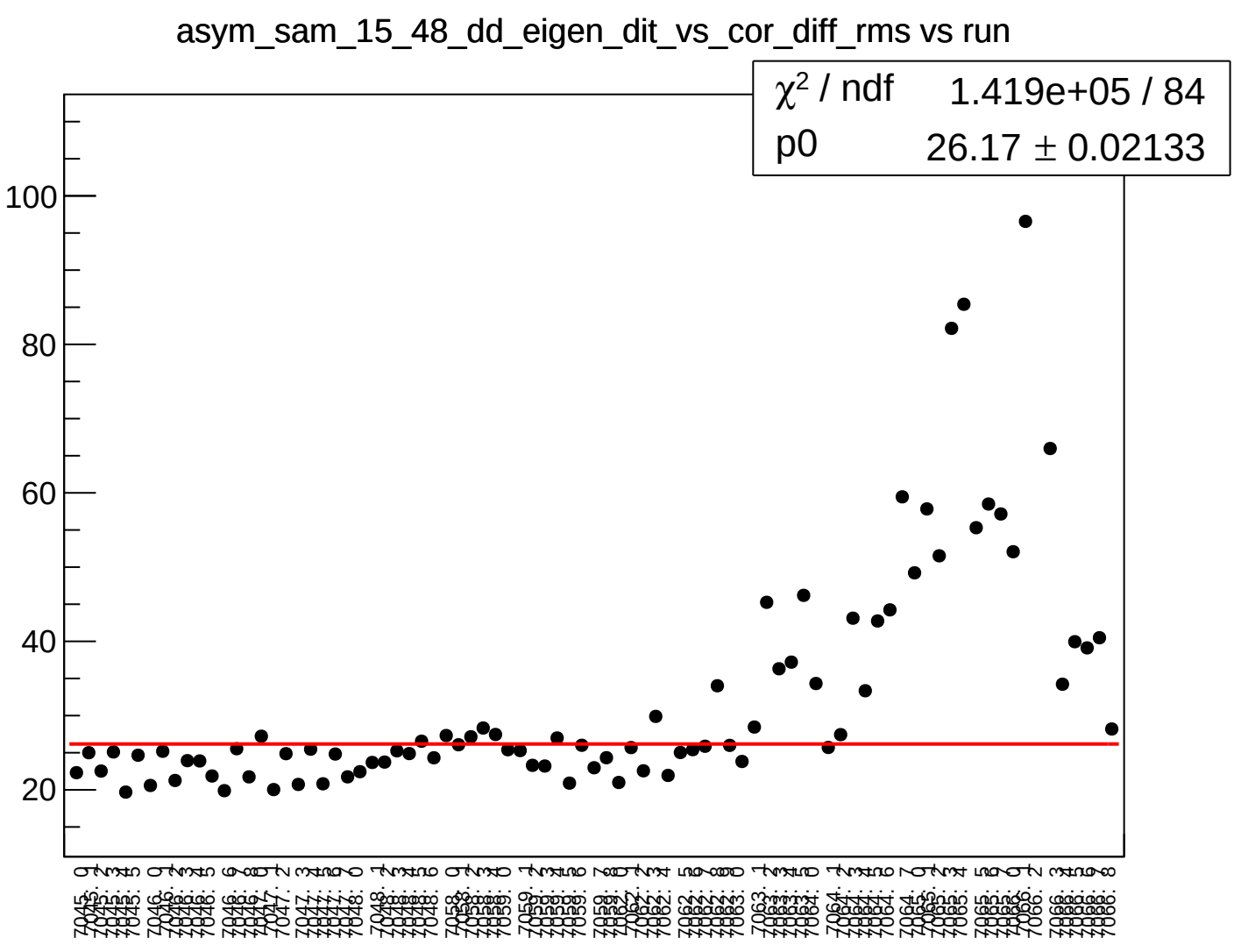

pull1D
Entries 85
Mean −0.02984
Std Dev 1.042

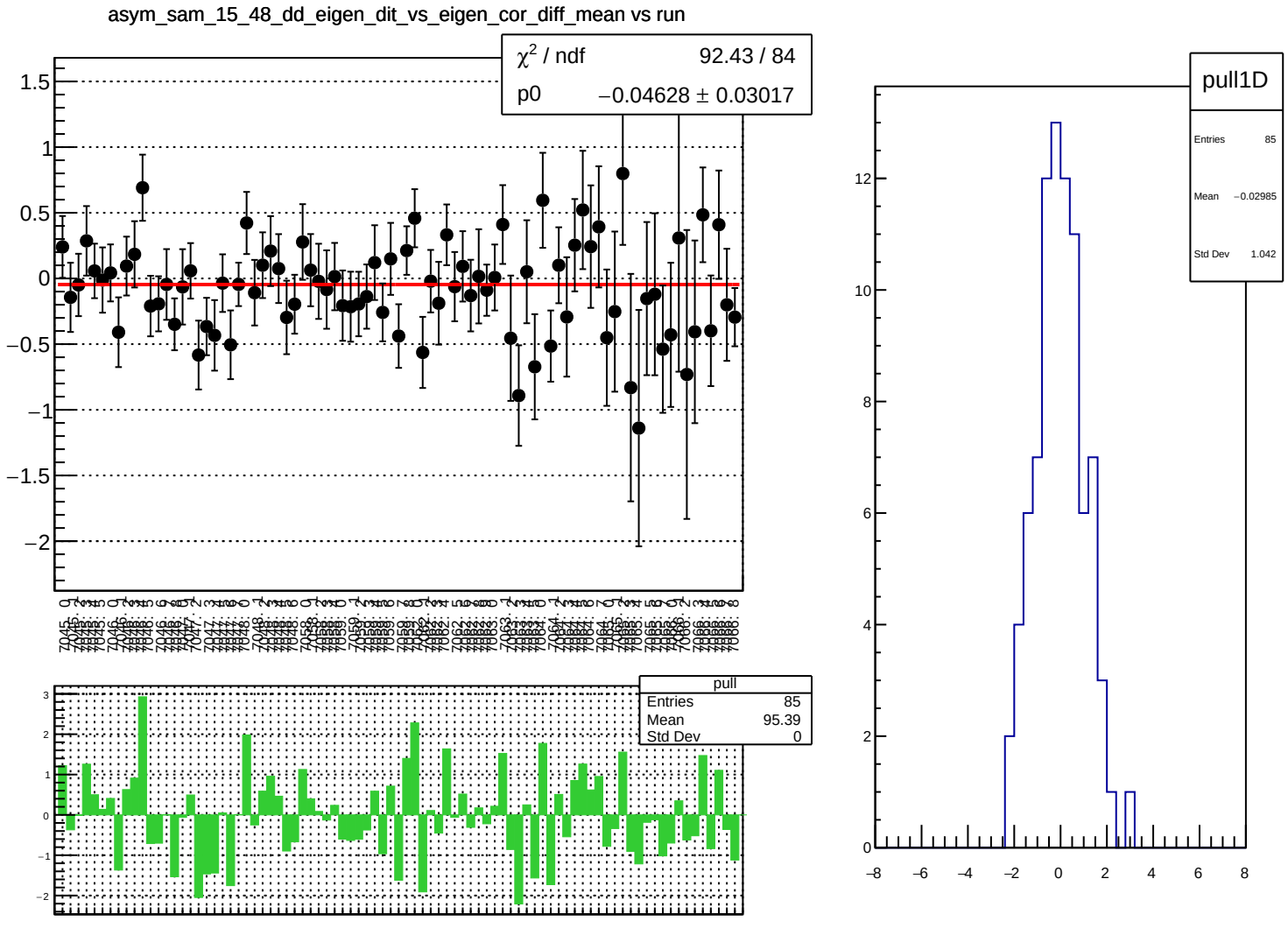

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.419e+05 / 84
p0 26.17 ± 0.02133
100
80
60
40
20

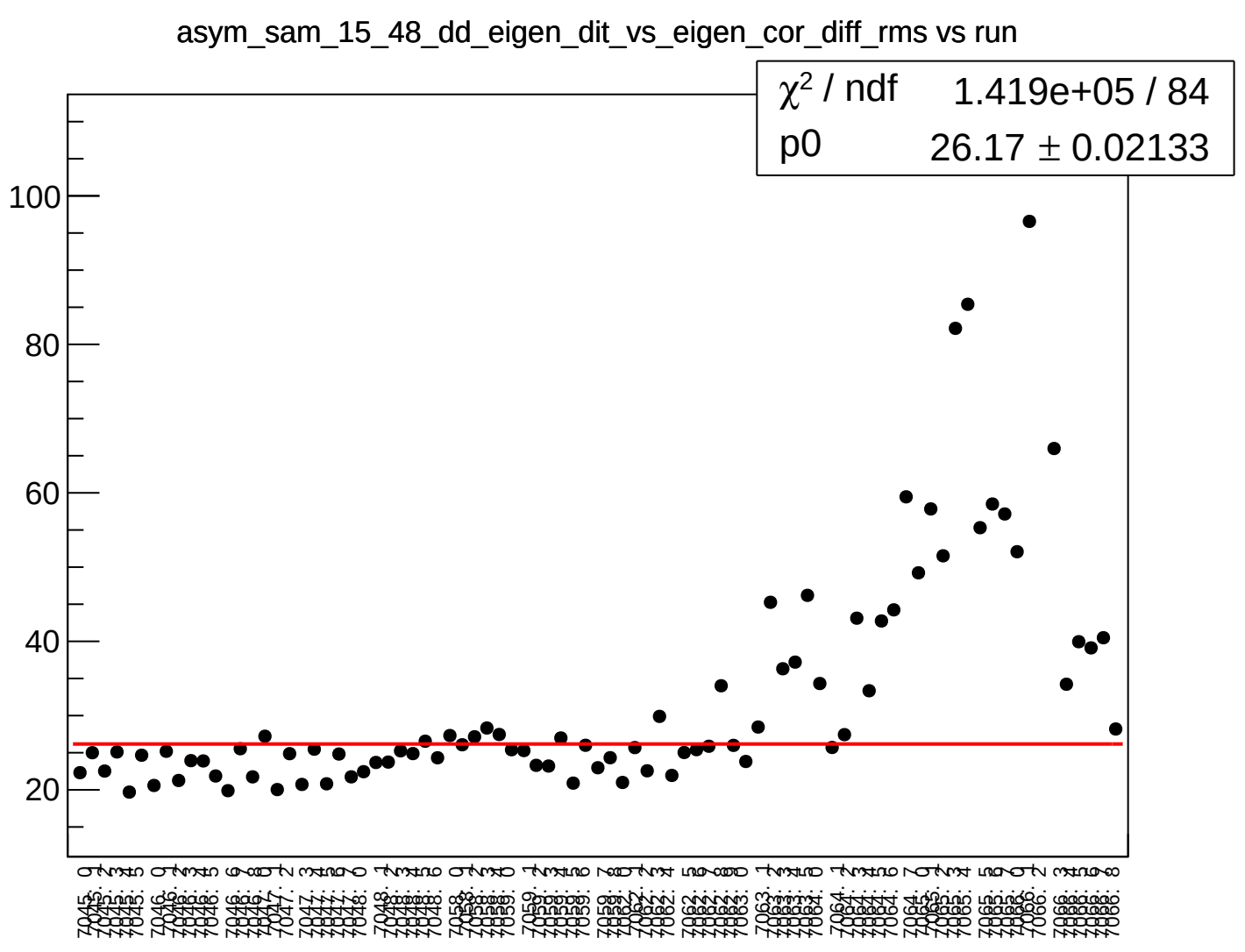

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.2 / 84
p0 2.434e−06 ± 2.886e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 192.5
Std Dev 0
pull1D
Entries 85
Mean −0.01703
Std Dev 1.064

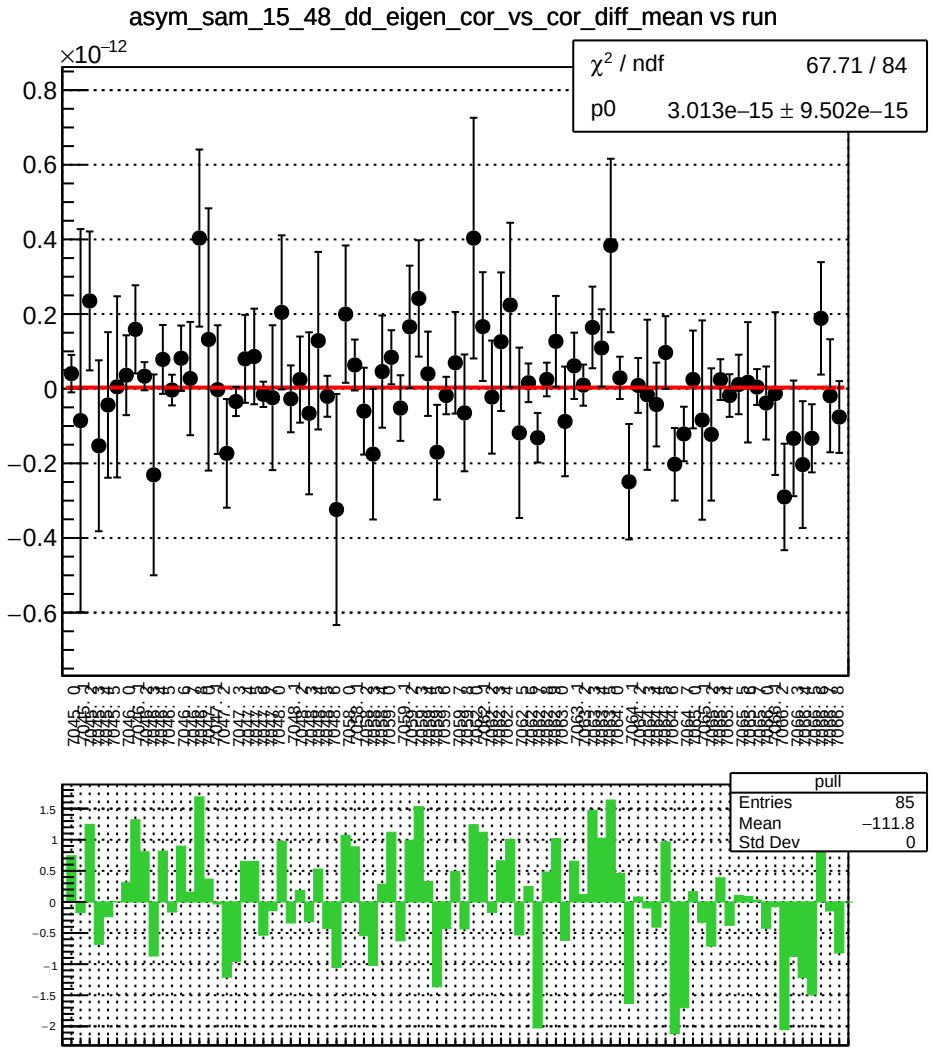

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.956e+04 / 84
p0 0.002604 ± 2.041e−06
0.003
0.0028
0.0026
0.0024
0.0022

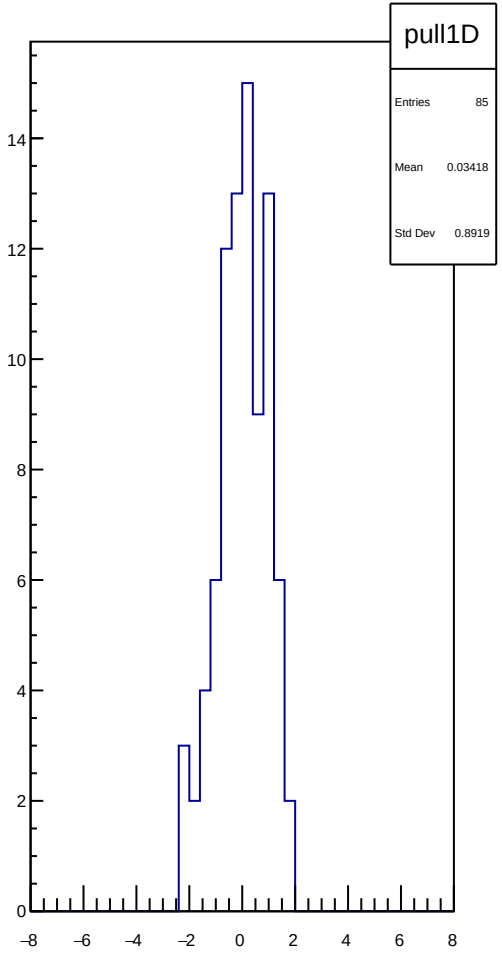

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 84
p0 −0.04628 ± 0.03017
pull
Entries 85
Mean 95.39
Std Dev 0
pull1D
Entries 85
Mean −0.02985
Std Dev 1.042

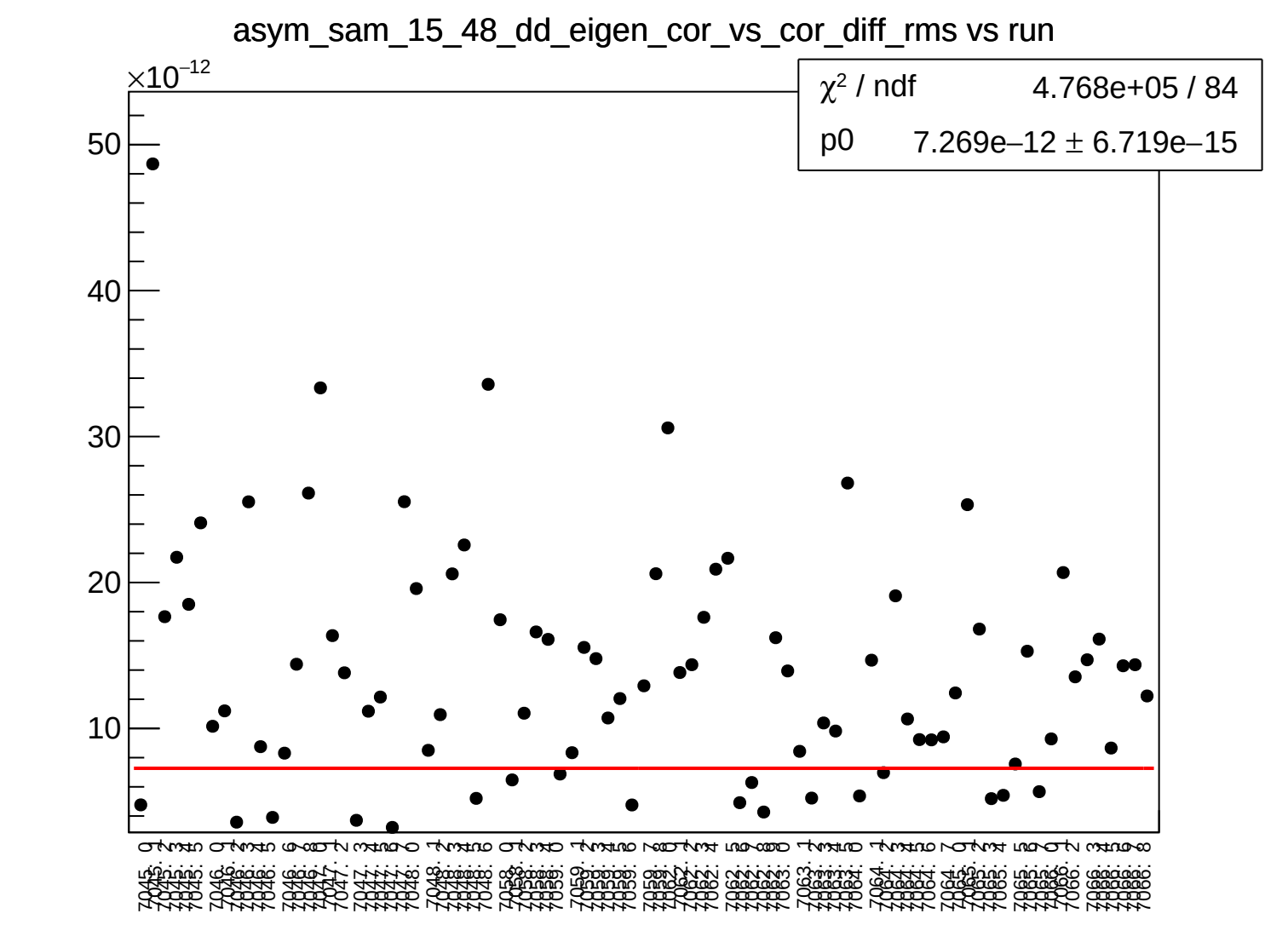

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.419e+05 / 84
p0 26.17 ± 0.02133
100
80
60
40
20

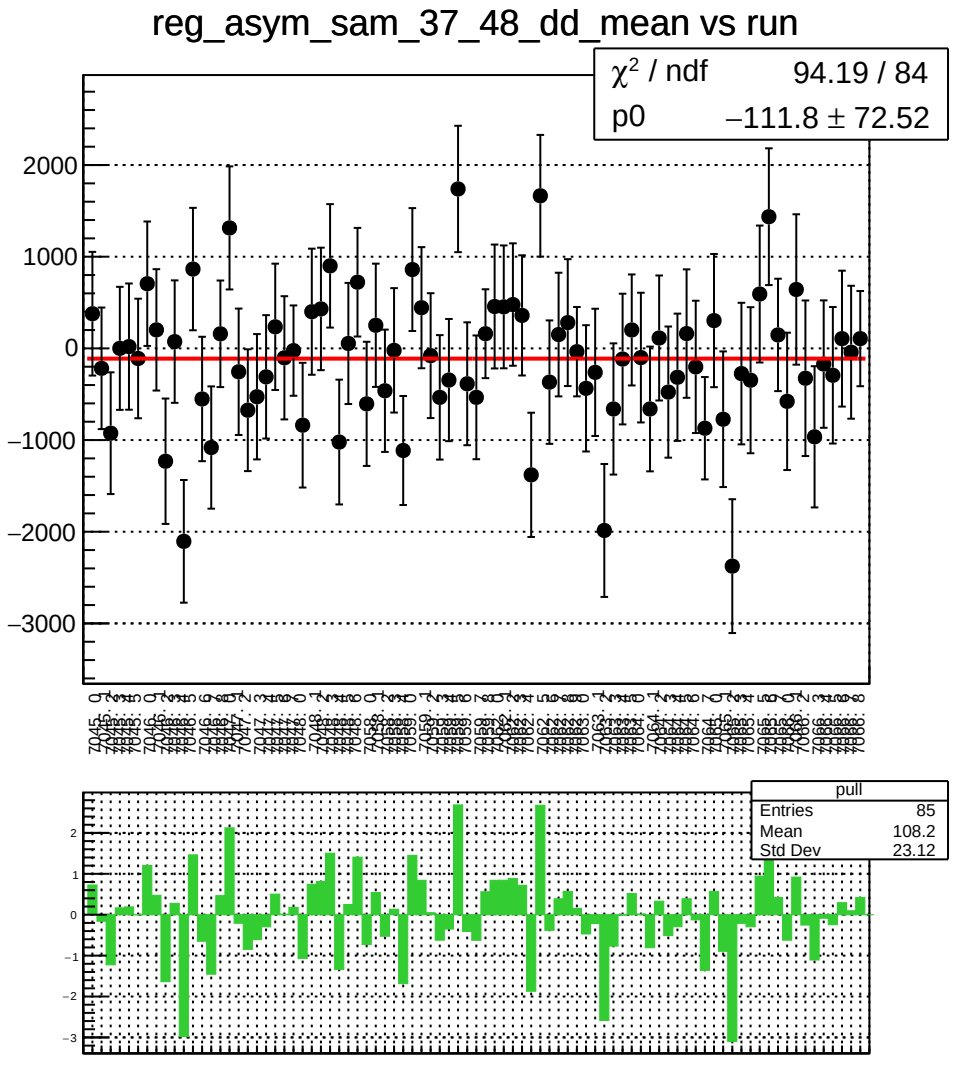

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 84
p0 −0.04628 ± 0.03017
pull
Entries 85
Mean 95.39
Std Dev 0
pull1D
Entries 85
Mean −0.02985
Std Dev 1.042

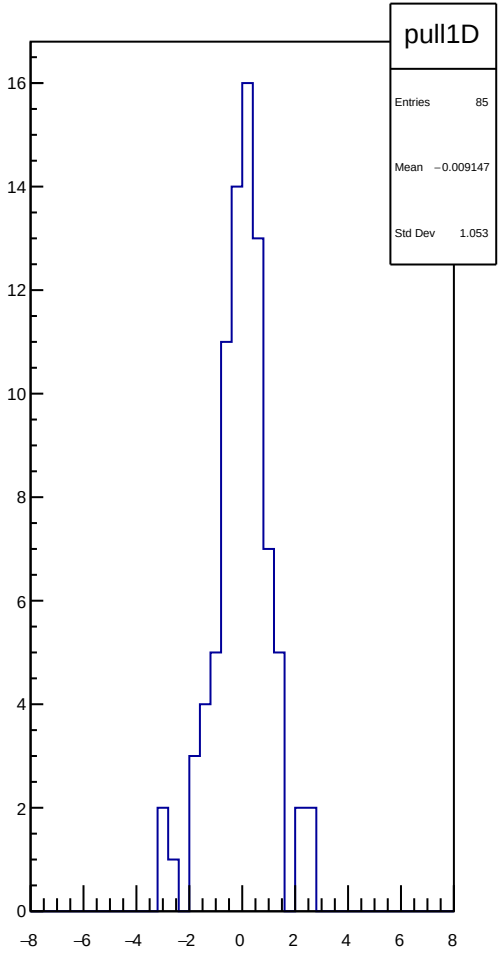

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.419e+05 / 84
p0 26.17 ± 0.02133
100
80
60
40
20

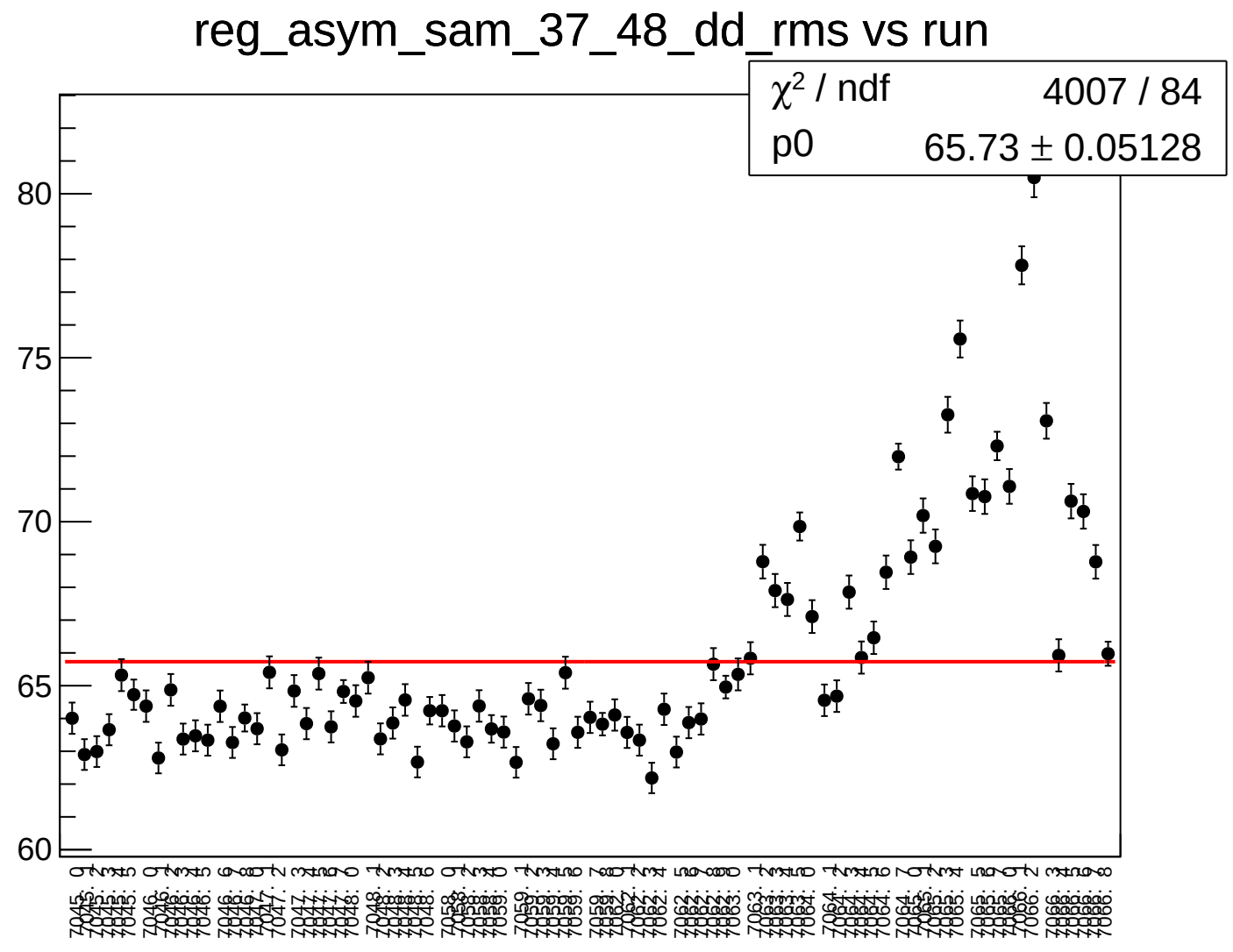

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.71 / 84
p0 3.013e−15 ± 9.502e−15
pull
Entries 85
Mean −111.8
Std Dev 0

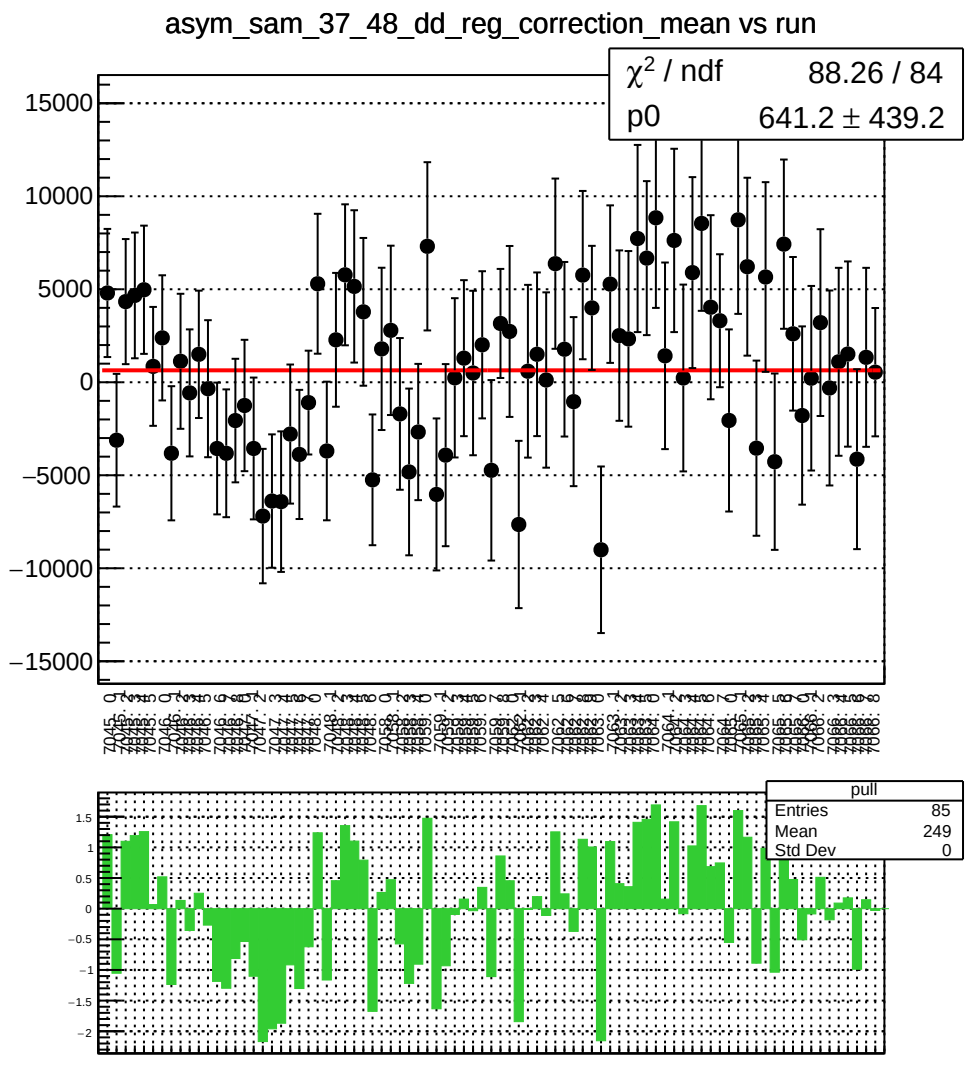

pull1D
Entries 85
Mean 0.03418
Std Dev 0.8919

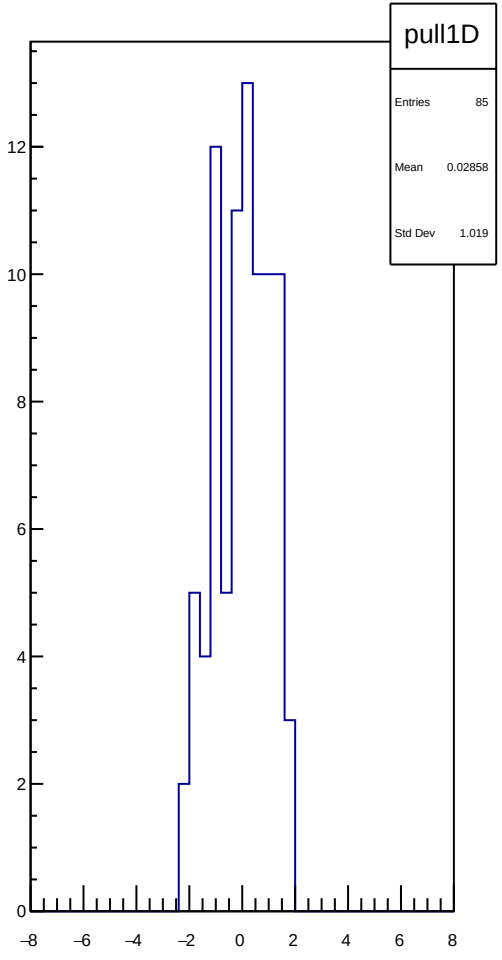

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.768e+05 / 84
p0 7.269e−12 ± 6.719e−15
50
40
30
20
10

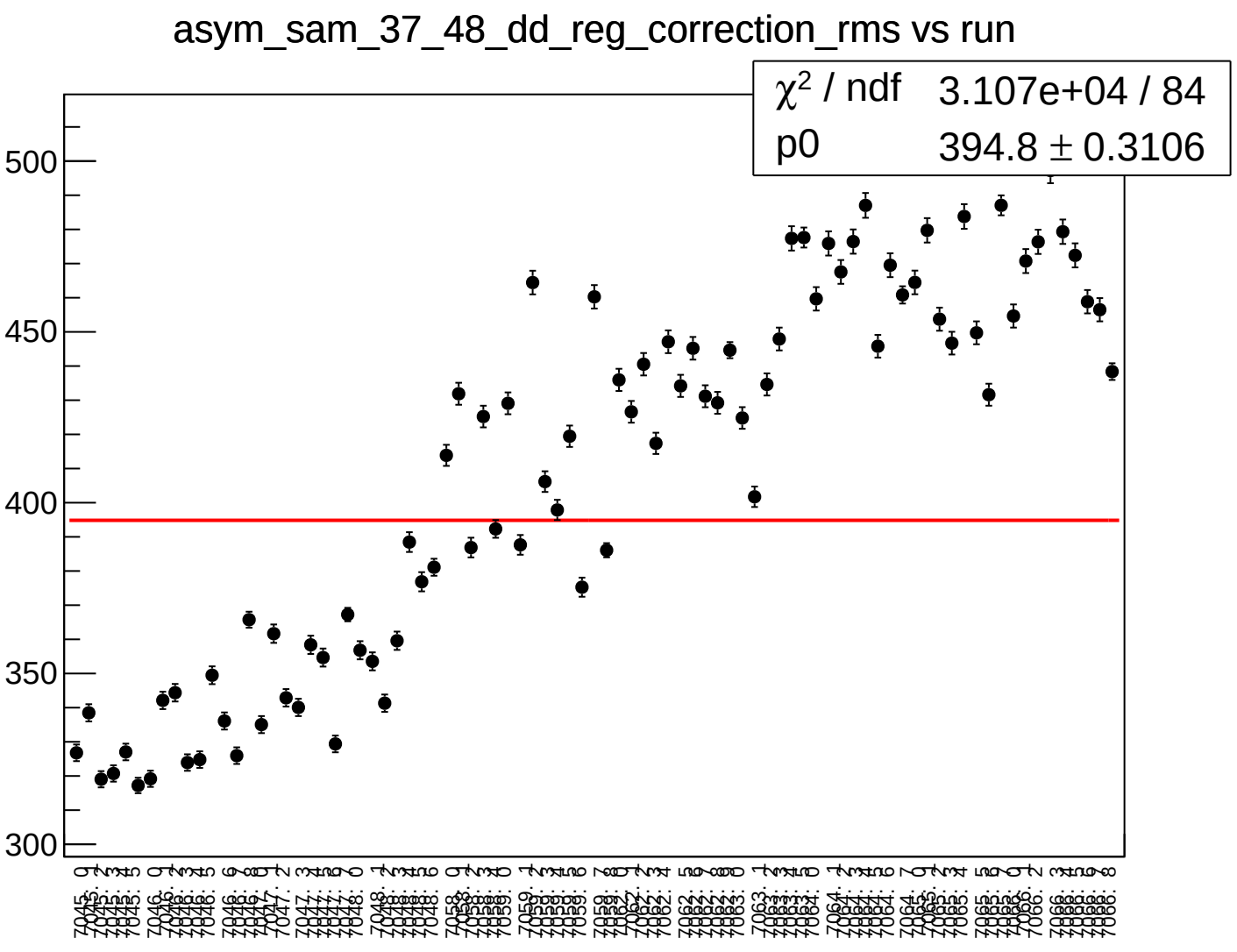

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.19 / 84
p0 −111.8 ± 72.52
pull
Entries 85
Mean 108.2
Std Dev 23.12

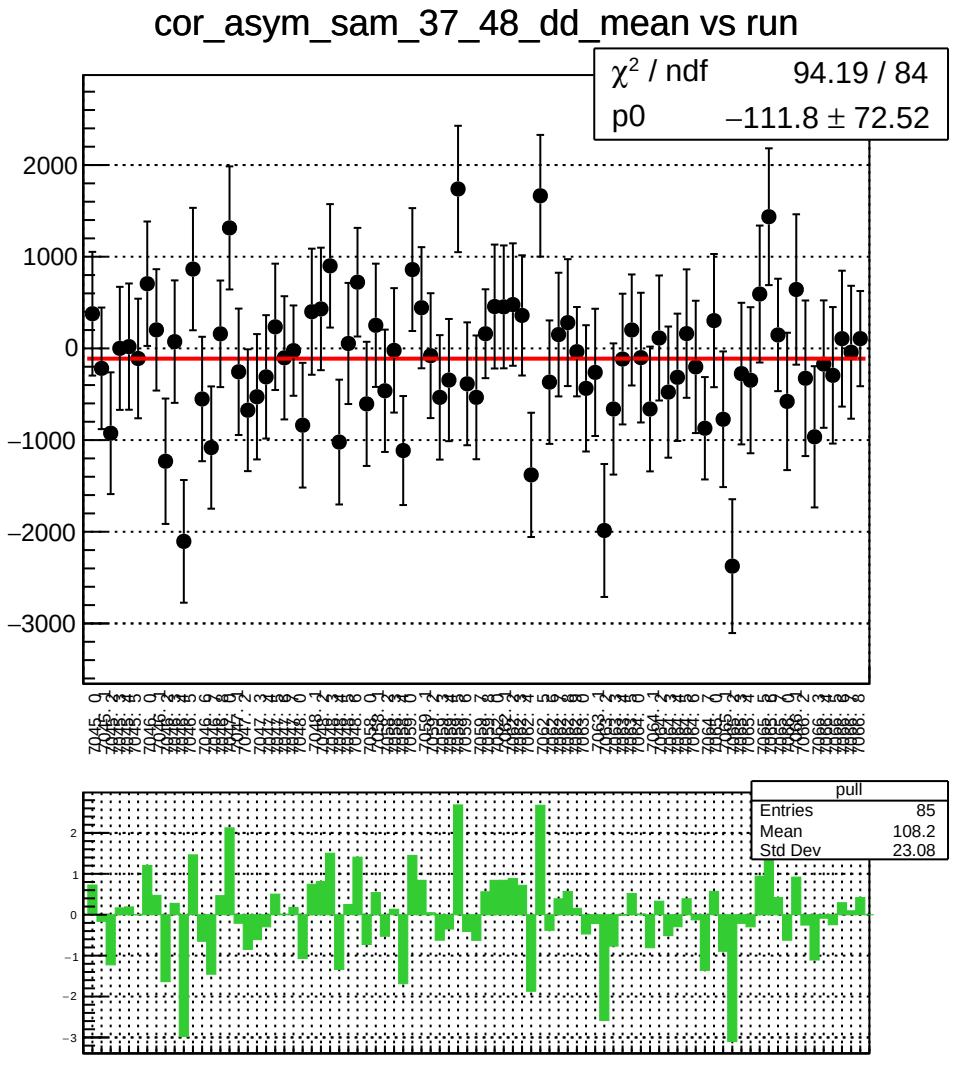

pull1D
Entries 85
Mean −0.009147
Std Dev 1.053

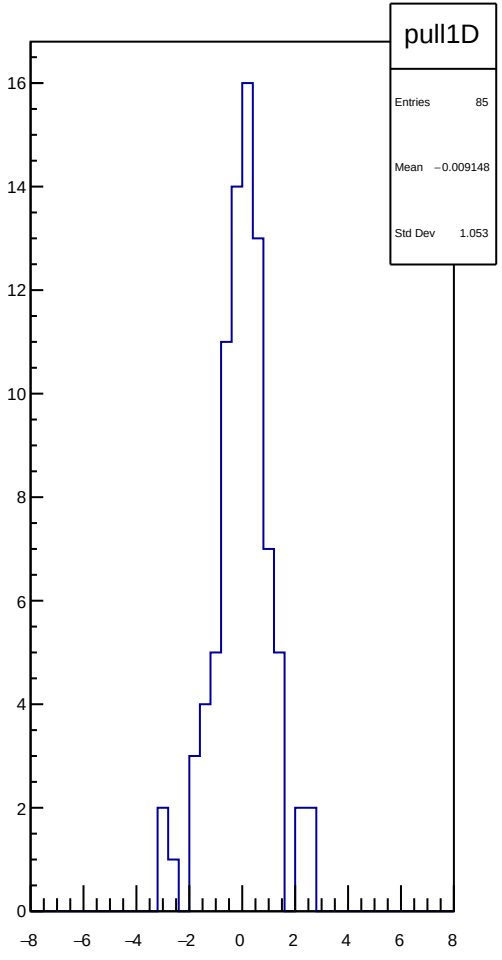

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 4007 / 84
p0 65.73 ± 0.05128
80
75
70
65
60

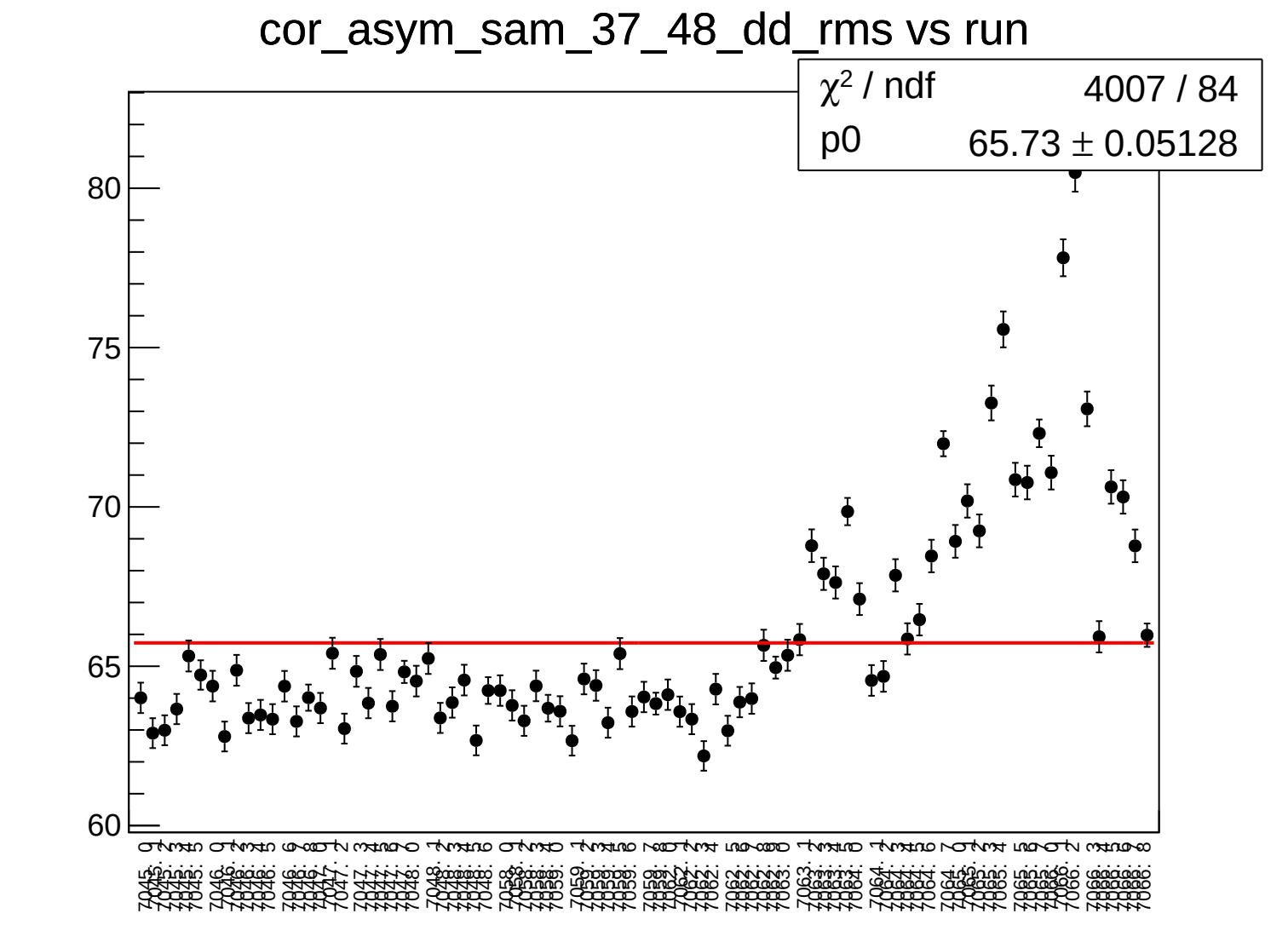

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 88.26 / 84
p0 641.2 ± 439.2
pull
Entries 85
Mean 249
Std Dev 0

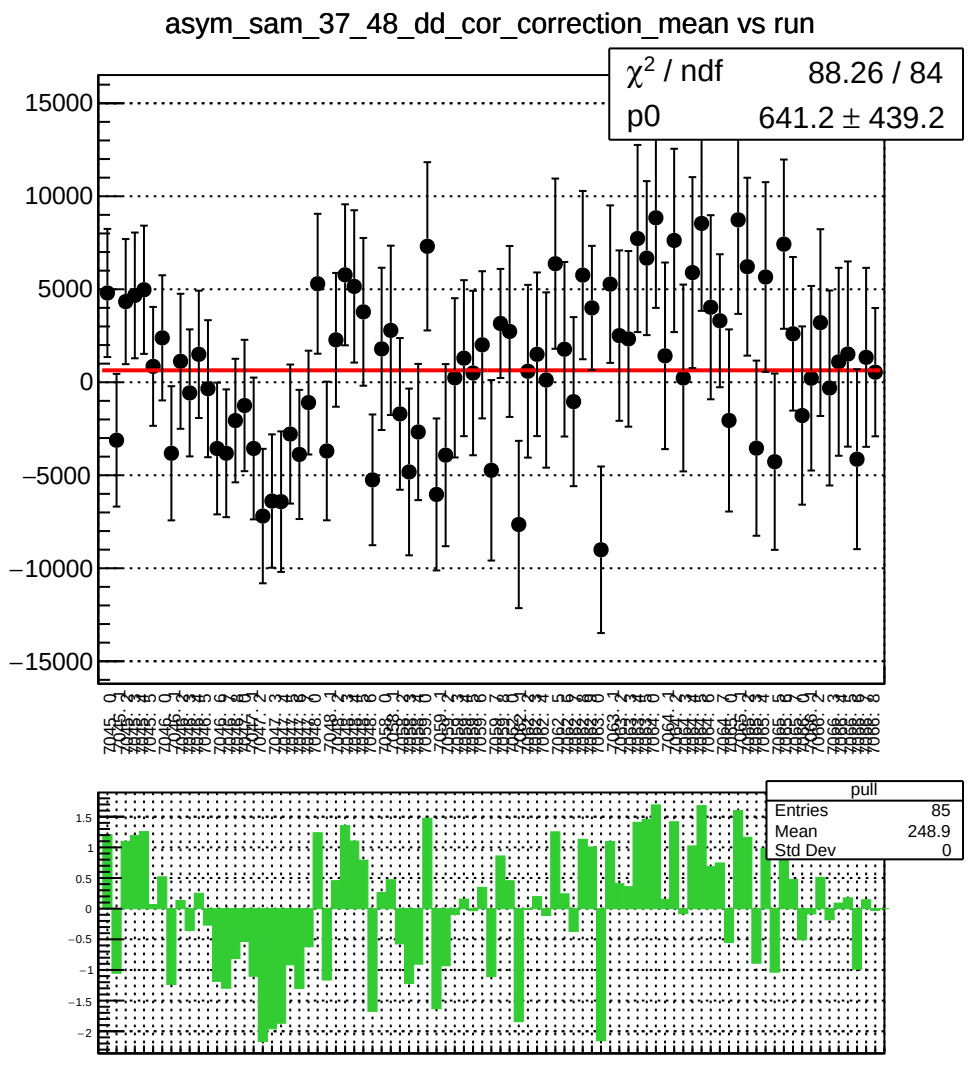

pull1D
Entries 85
Mean 0.02858
Std Dev 1.019

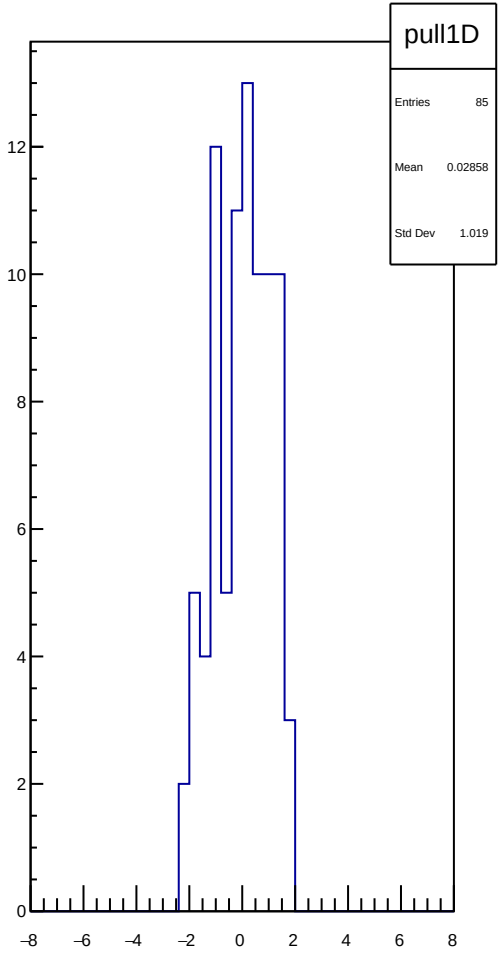

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3.107e+04 / 84
p0 394.8 ± 0.3106
500
450
400
350
300

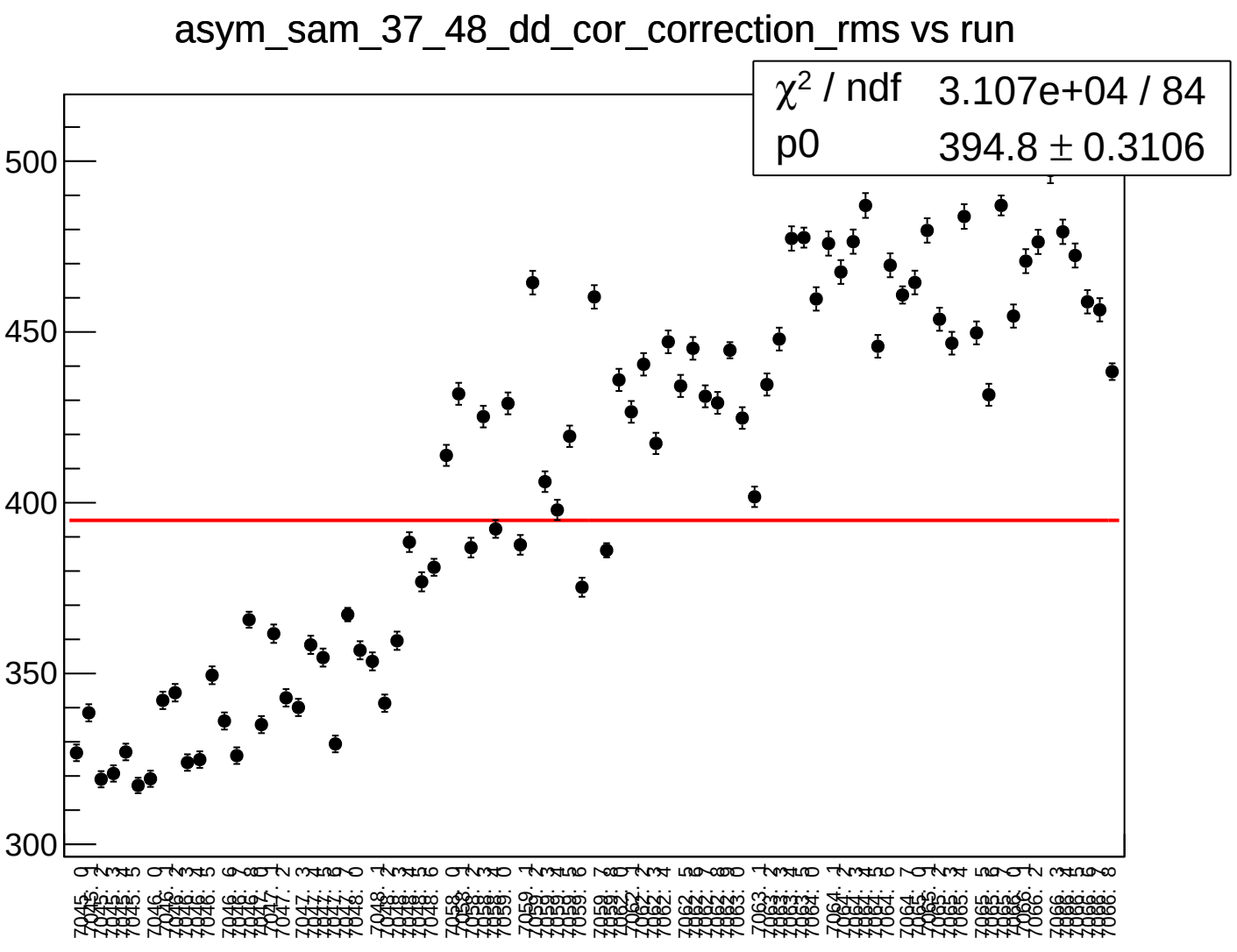

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.19 / 84
p0 −111.8 ± 72.52
pull
Entries 85
Mean 108.2
Std Dev 23.08

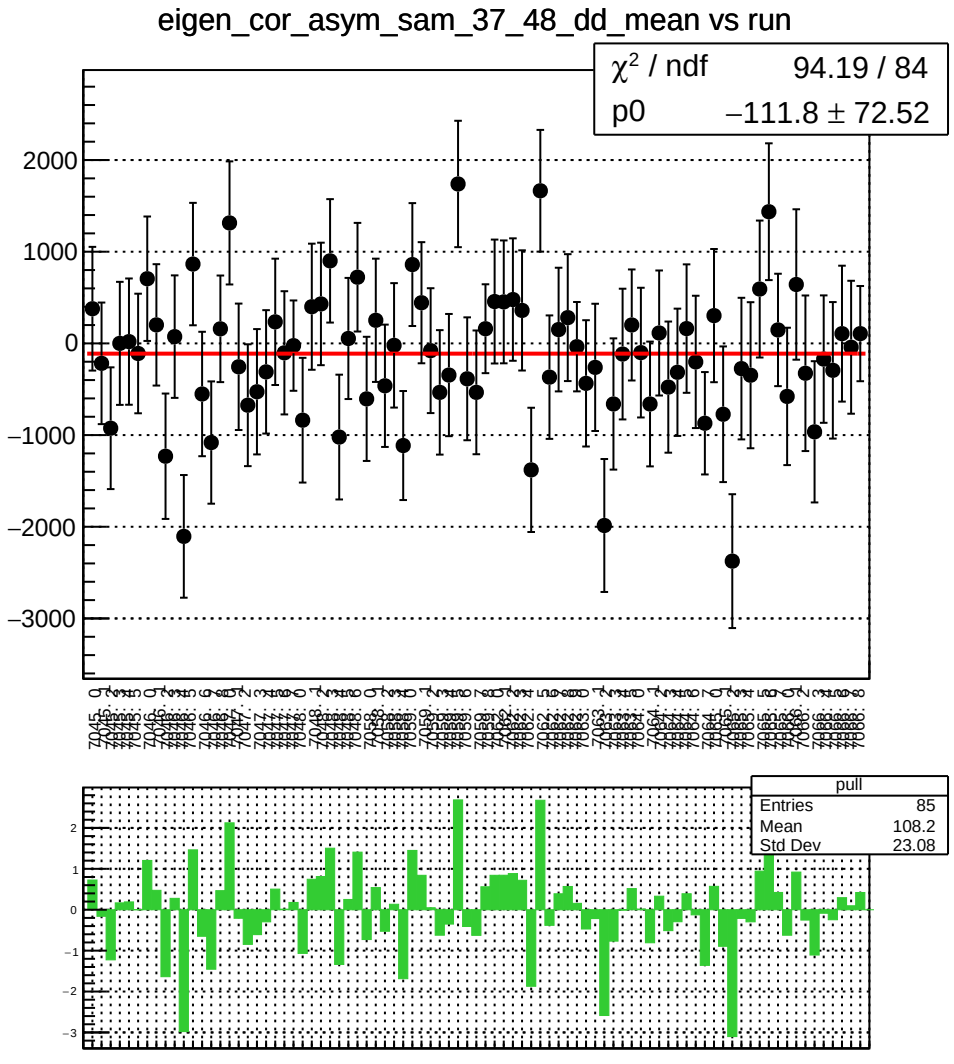

pull1D
Entries 85
Mean −0.009148
Std Dev 1.053

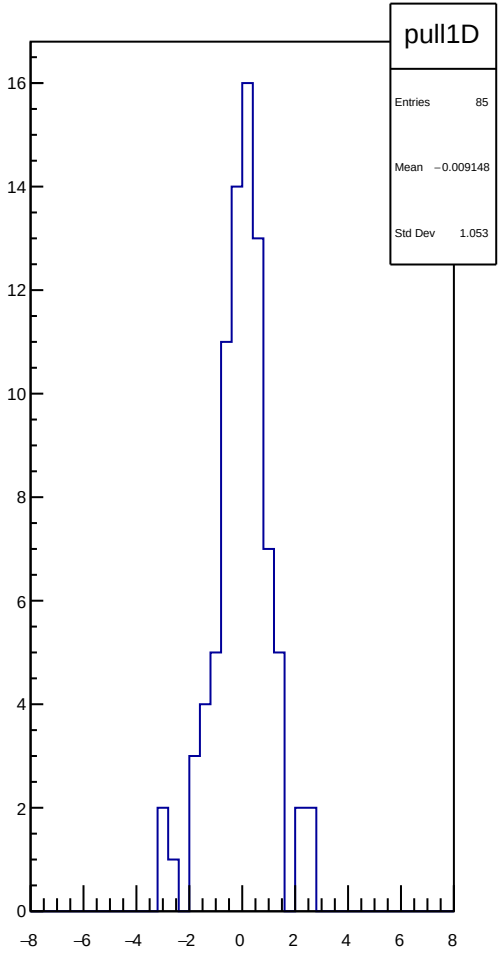

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4007 / 84
p0 65.73 ± 0.05128
80
75
70
65
60

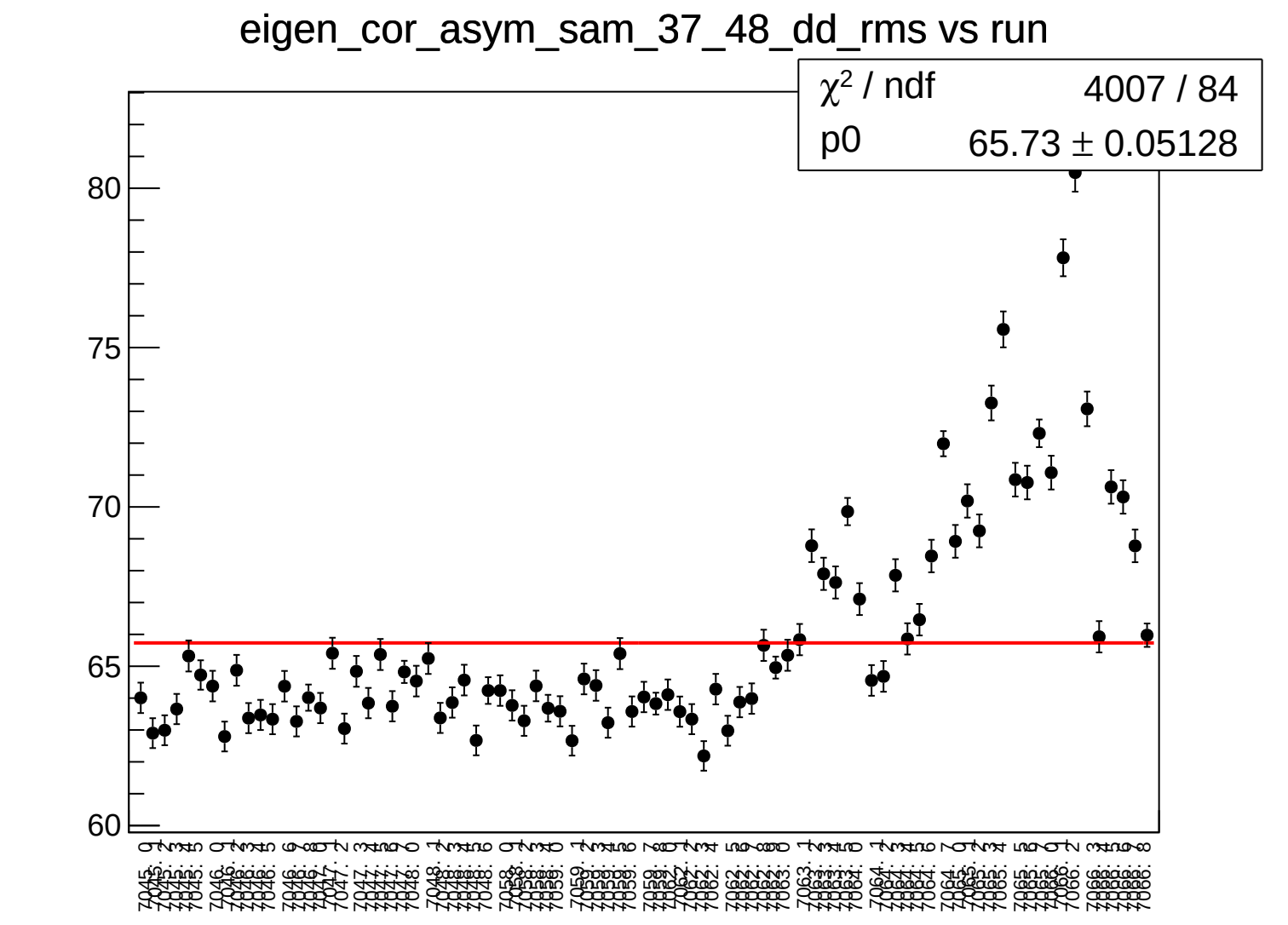

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 88.26 / 84
p0 641.2 ± 439.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 248.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

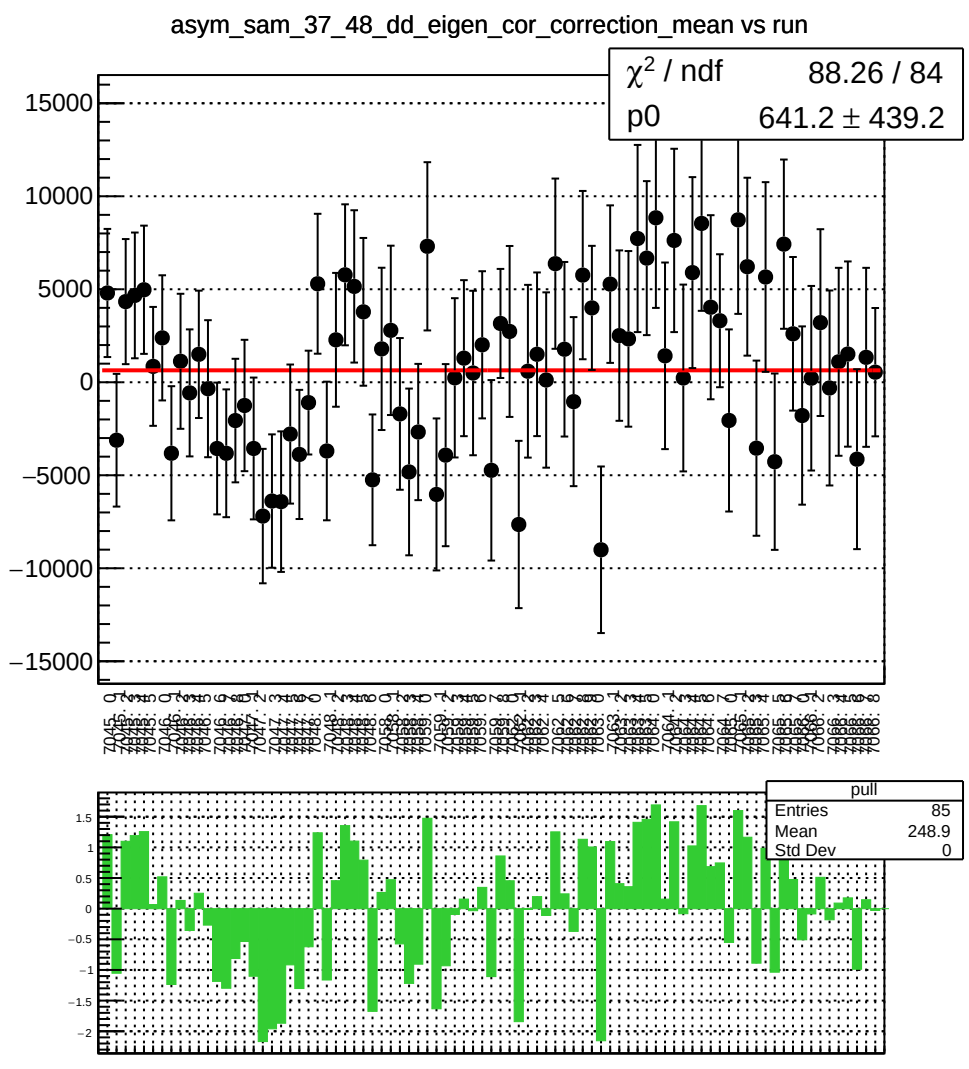

pull1D
Entries 85
Mean 0.02858
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

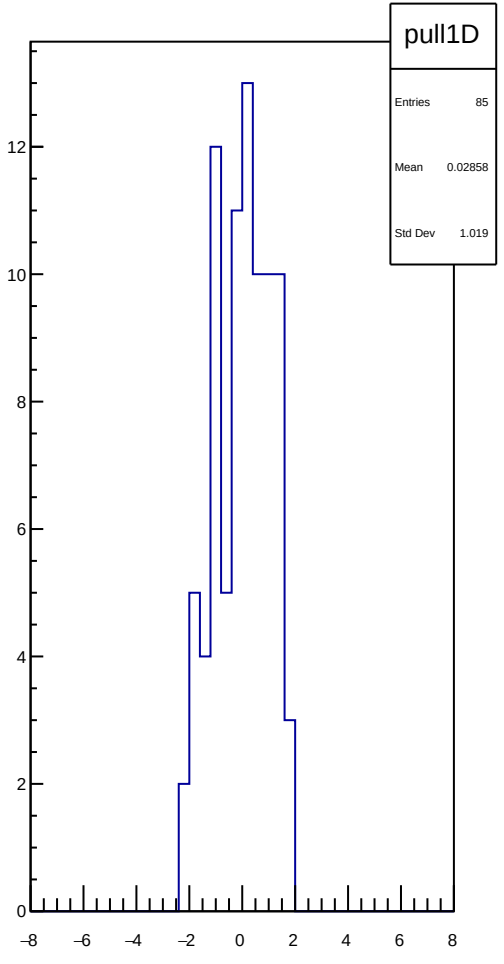

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3.107e+04 / 84
p0 394.8 ± 0.3106
500
450
400
350
300

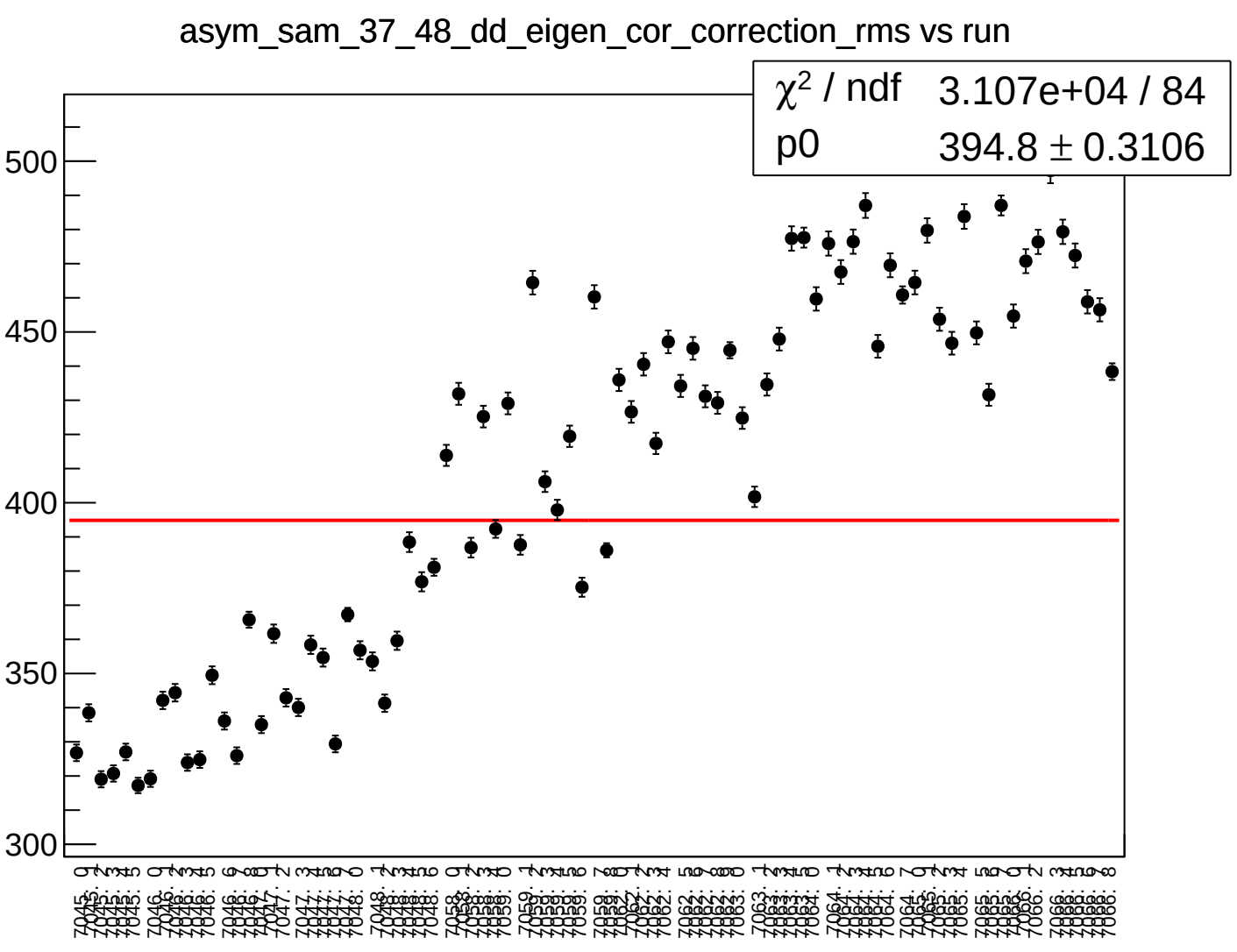

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.19 / 84
p0 −111.8 ± 72.52
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 108.2
Std Dev 23.08
2
1
0
−1
−2
−3

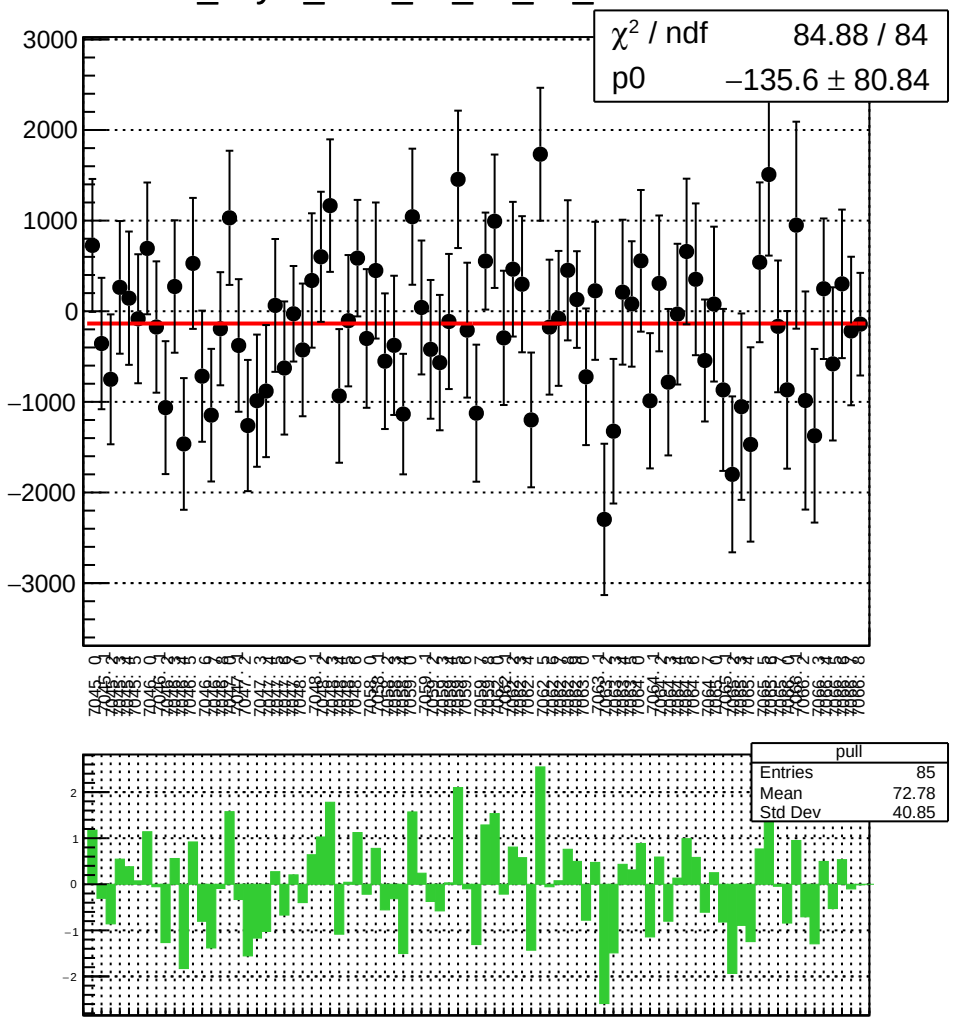

pull1D
Entries 85
Mean −0.009148
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

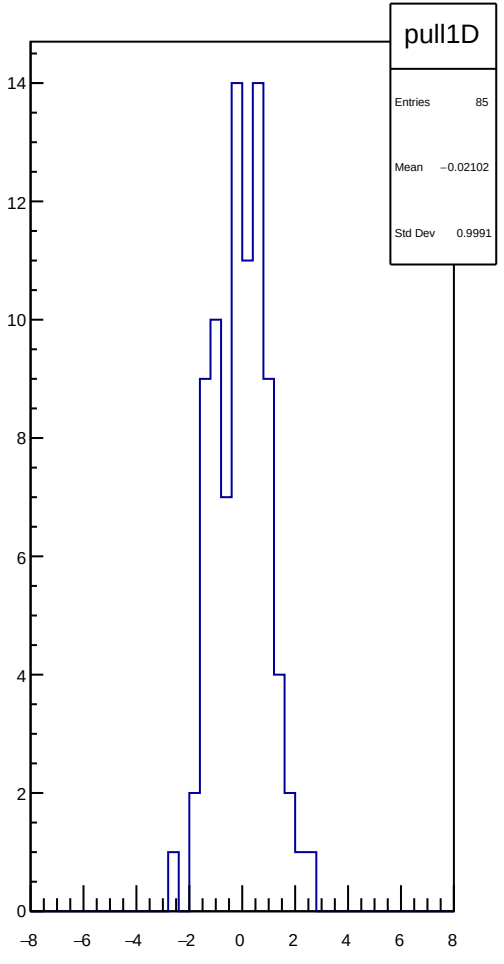

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4007 / 84
p0 65.73 ± 0.05128
80
75
70
65
60

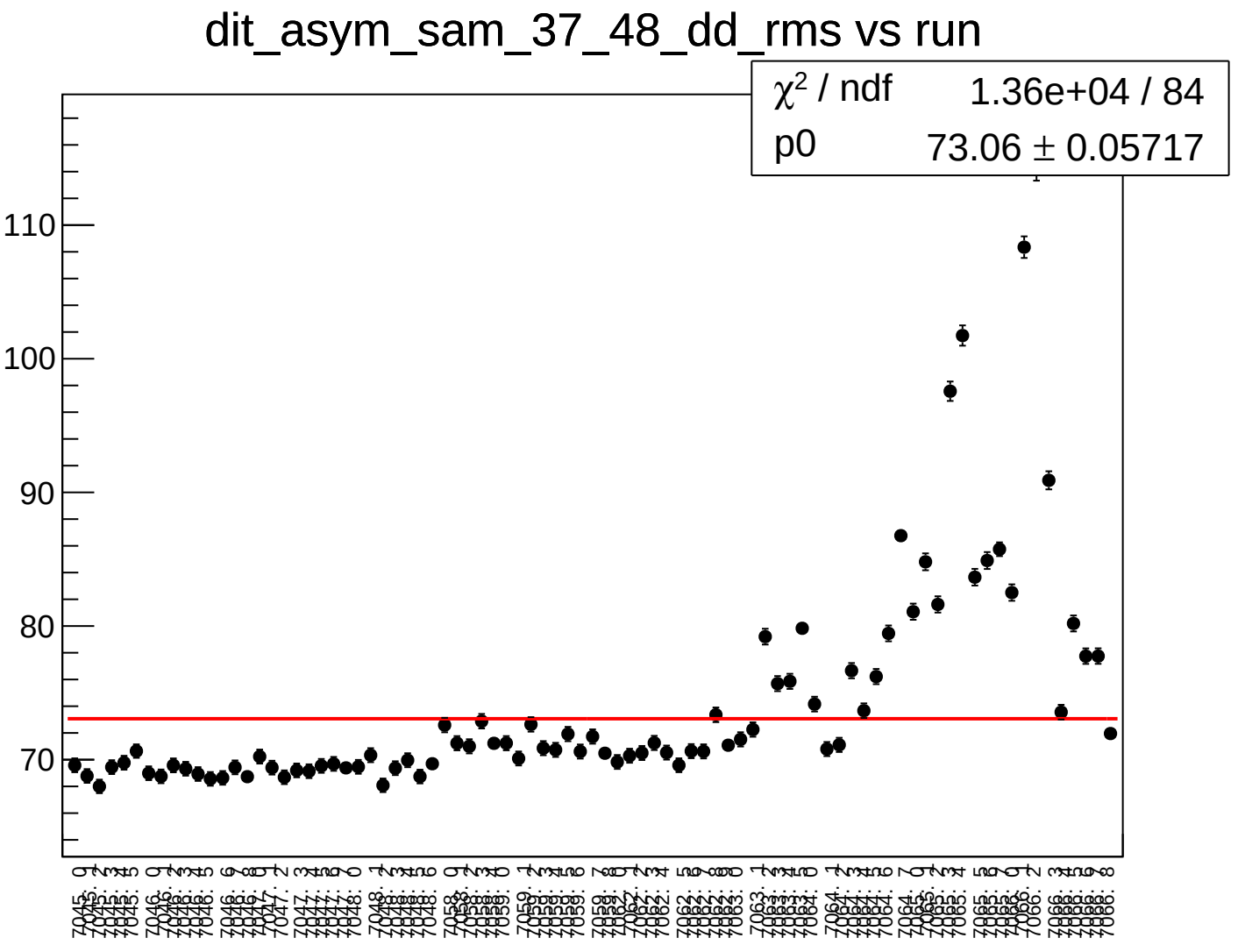

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.26 / 84
p0 641.2 ± 439.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 248.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

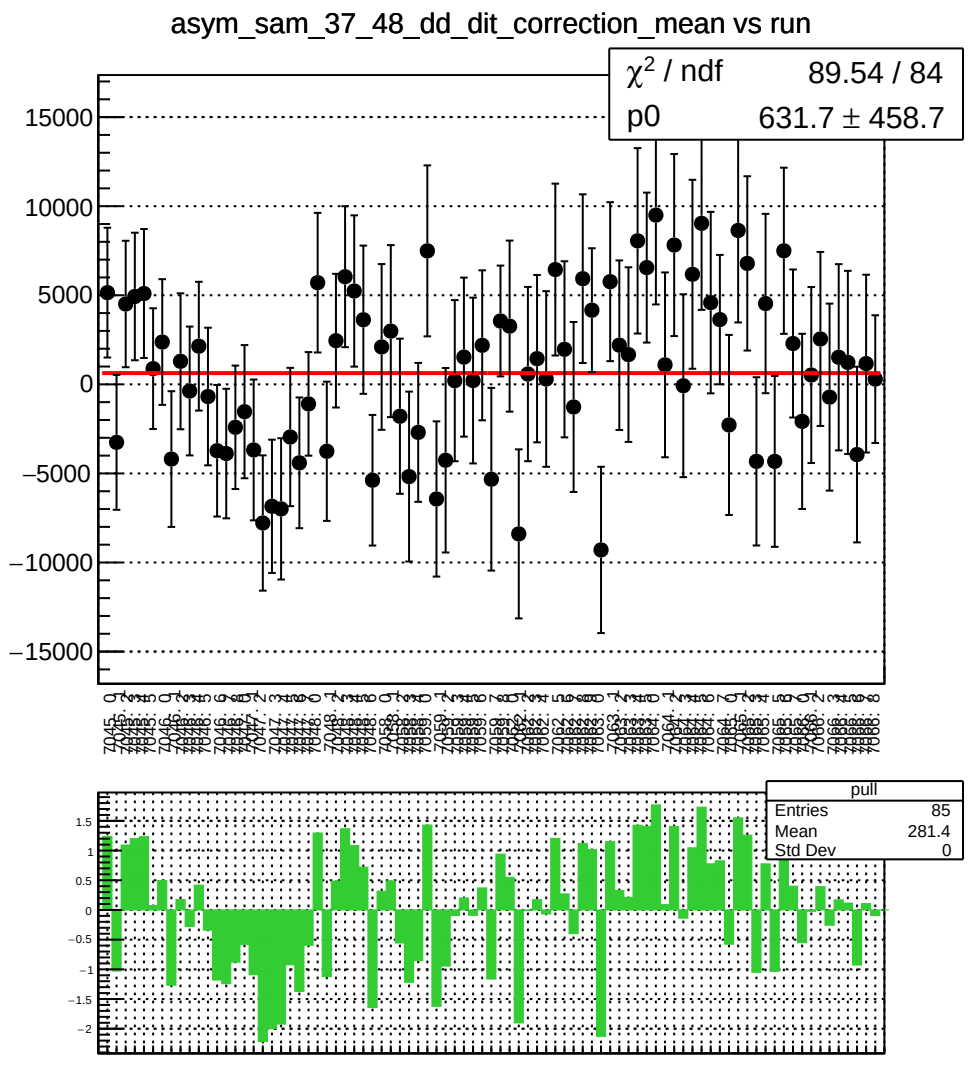

pull1D
Entries 85
Mean 0.02858
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

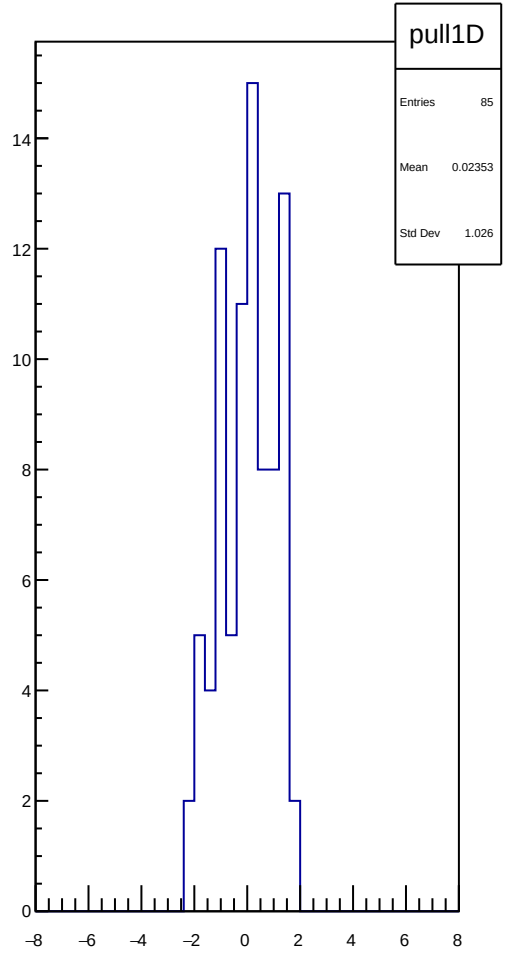

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.107e+04 / 84
p0 394.8 ± 0.3106
500
450
400
350
300

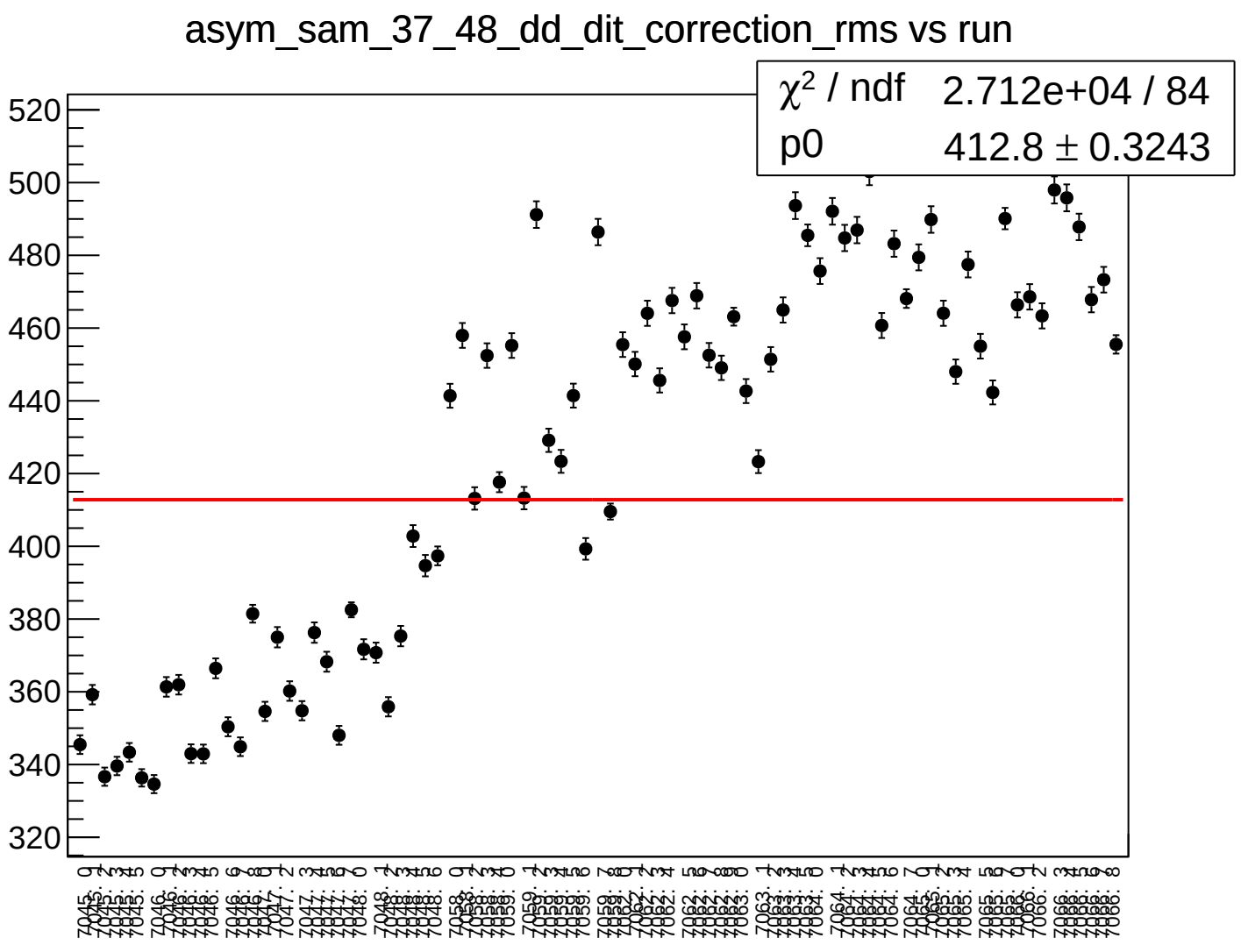

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.88 / 84
p0 −135.6 ± 80.84
pull
Entries 85
Mean 72.78
Std Dev 40.85

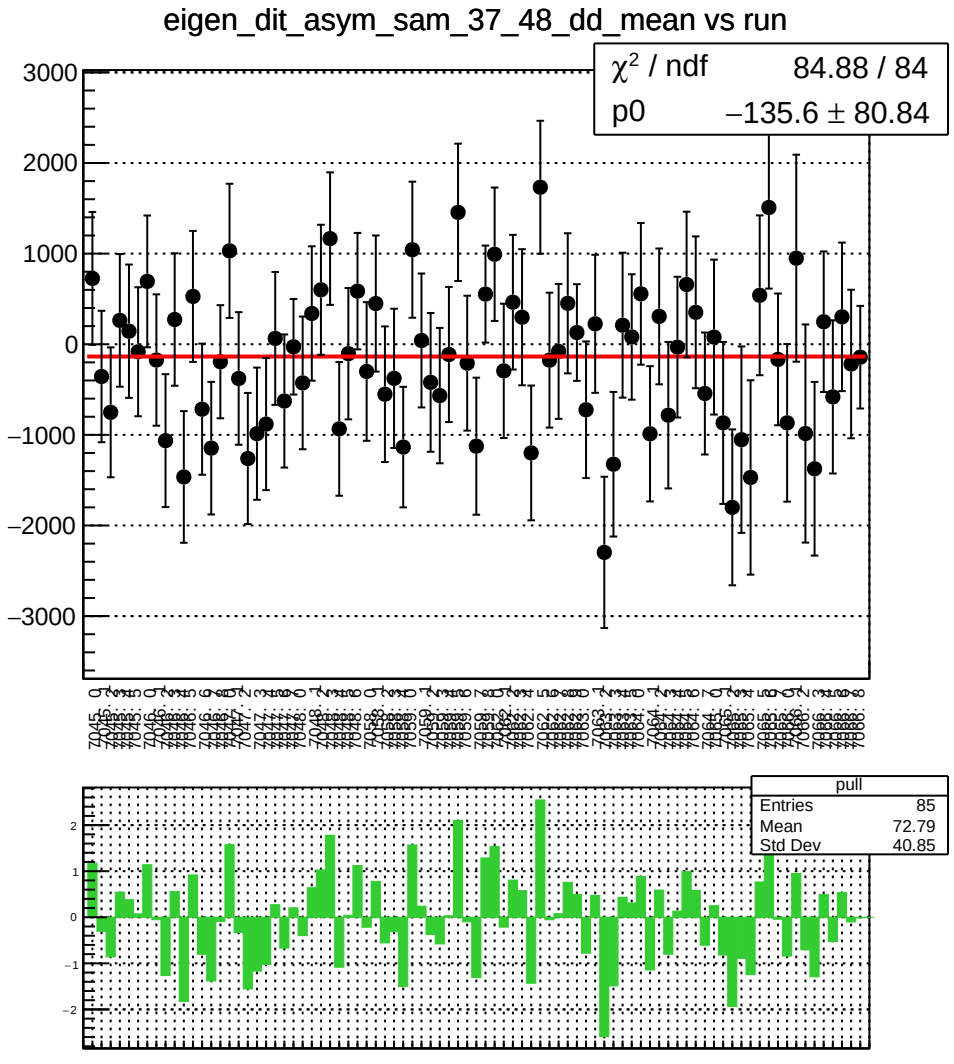

pull1D
Entries 85
Mean −0.02102
Std Dev 0.9991

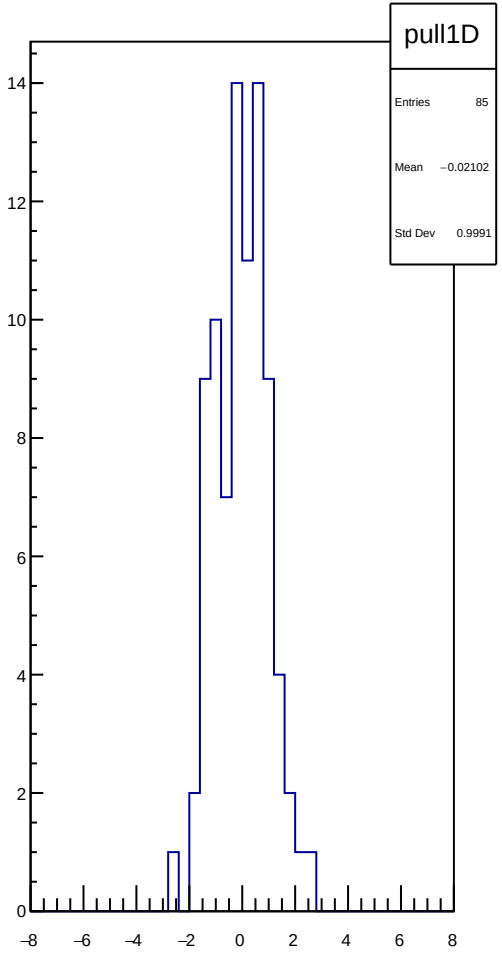

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.36e+04 / 84
p0 73.06 ± 0.05717
110
100
90
80
70

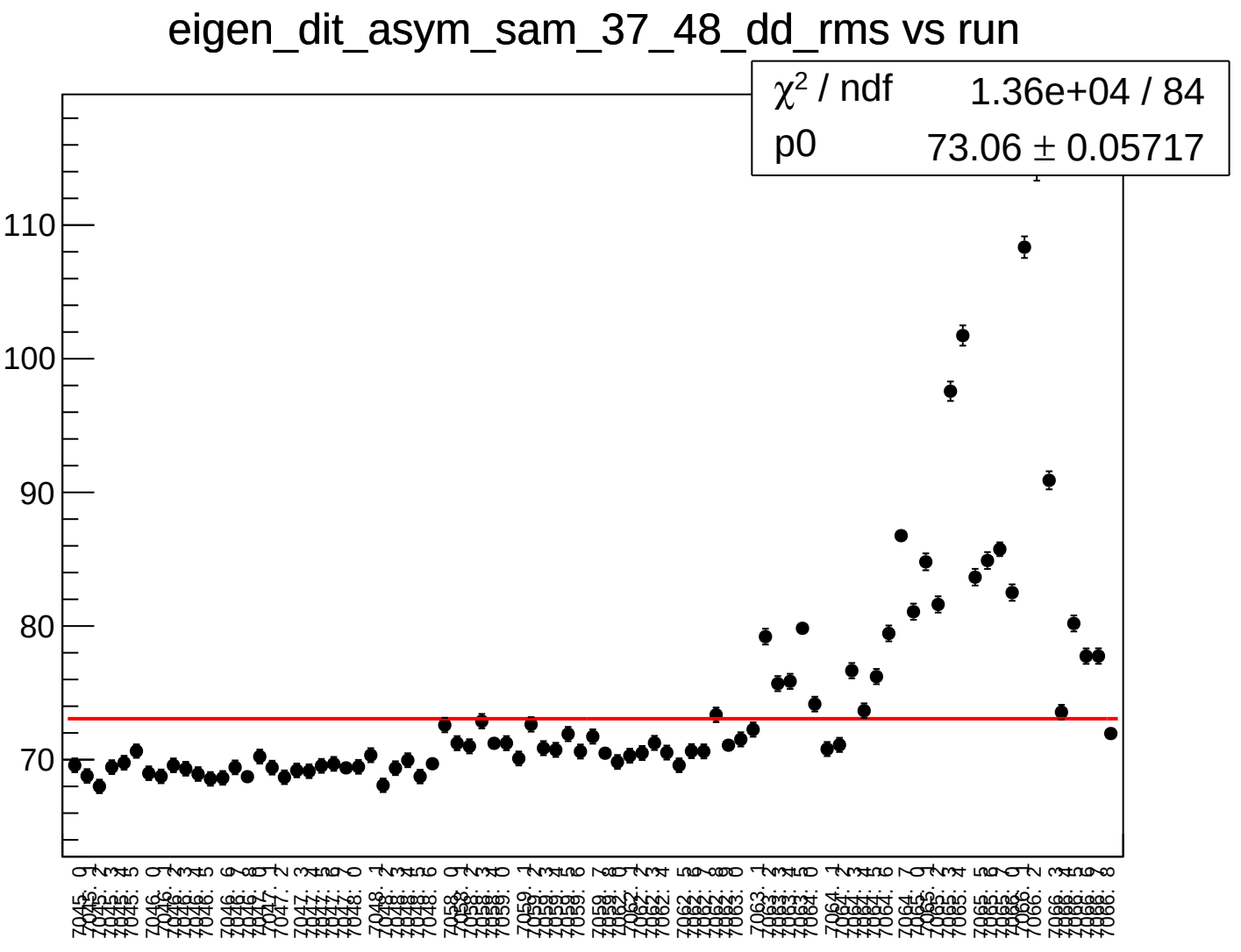

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 89.54 / 84
p0 631.7 ± 458.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 281.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

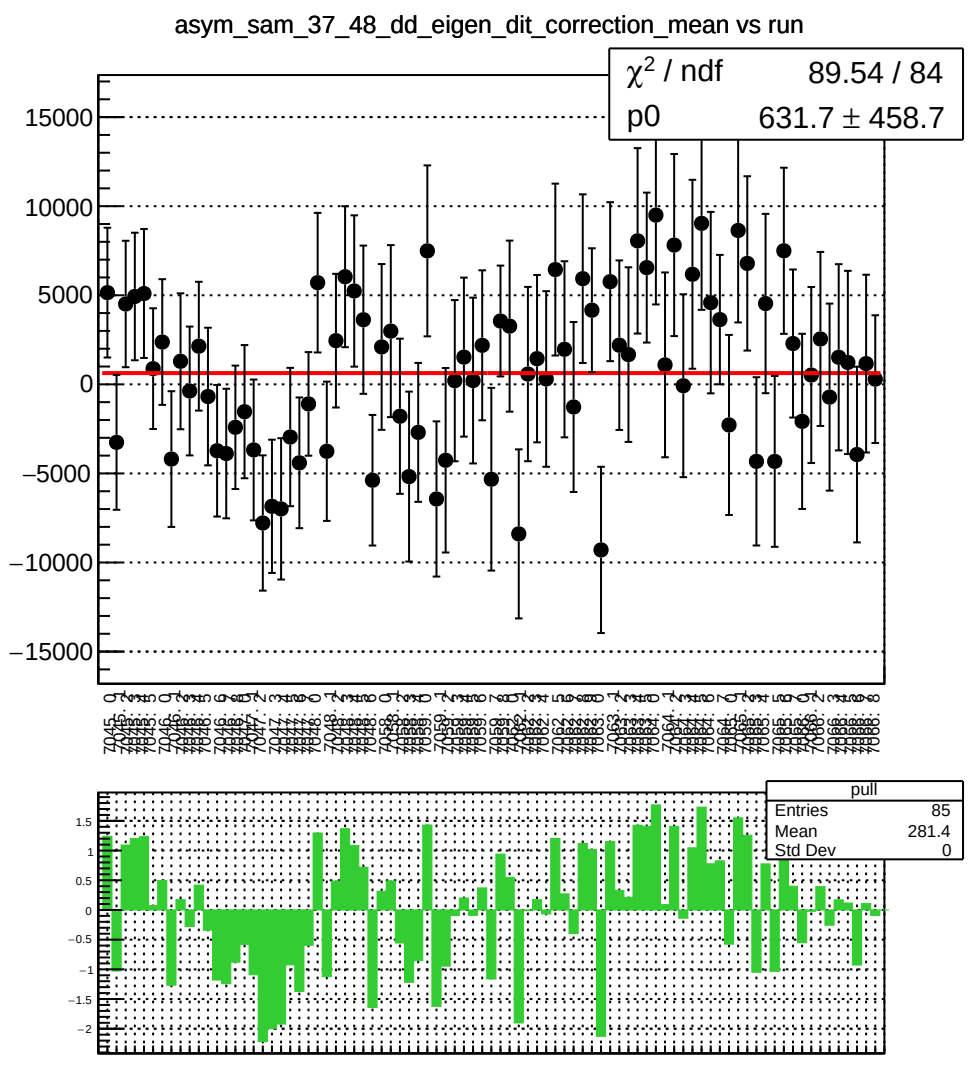

pull1D
Entries 85
Mean 0.02353
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

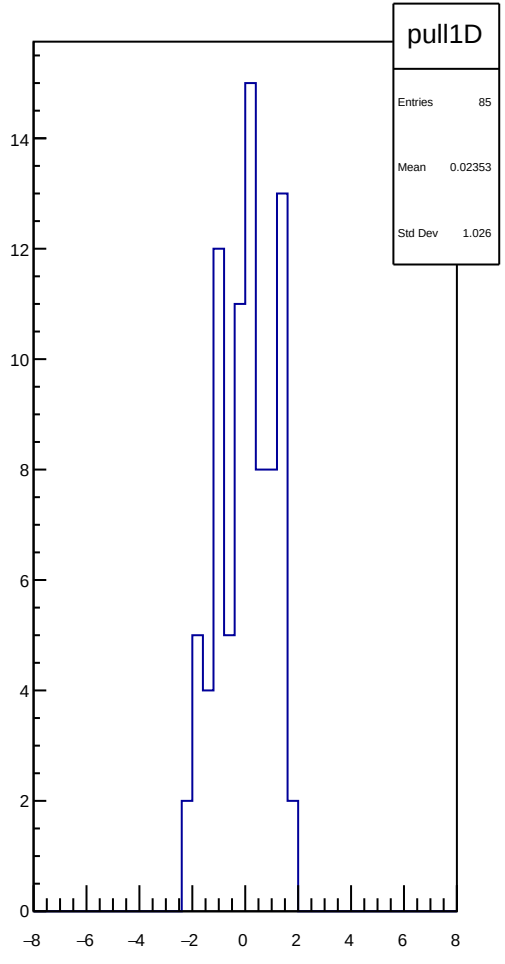

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2.712e+04 / 84
p0 412.8 ± 0.3243
520
500
480
460
440
420
400
380
360
340
320

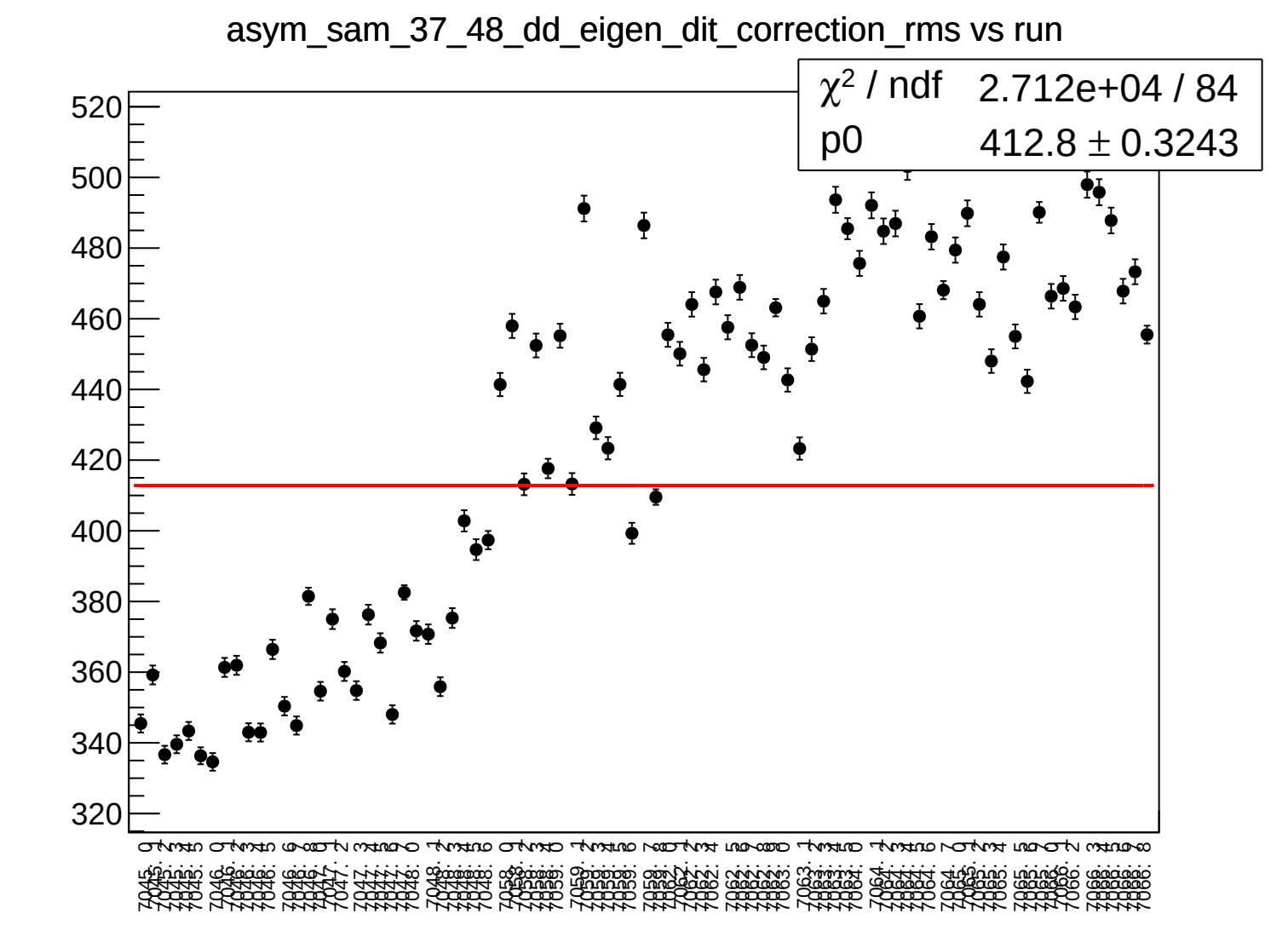

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.88 / 84
p0 −135.6 ± 80.84
pull
Entries 85
Mean 72.79
Std Dev 40.85

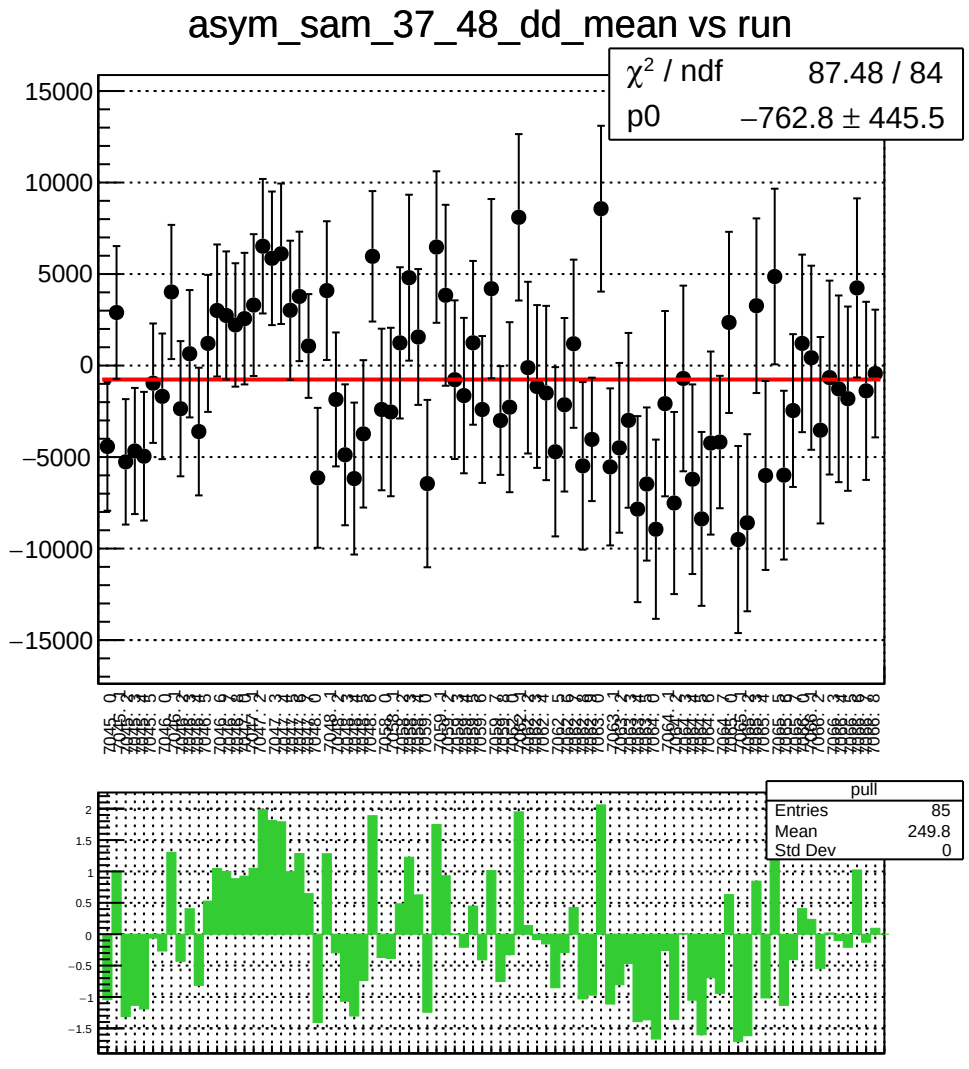

pull1D
Entries 85
Mean −0.02102
Std Dev 0.9991

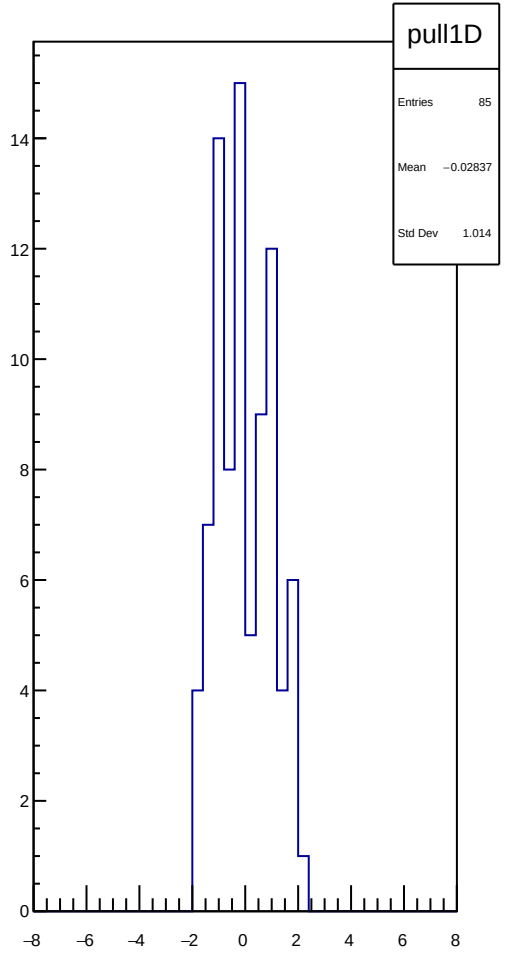

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.36e+04 / 84
p0 73.06 ± 0.05717
110
100
90
80
70

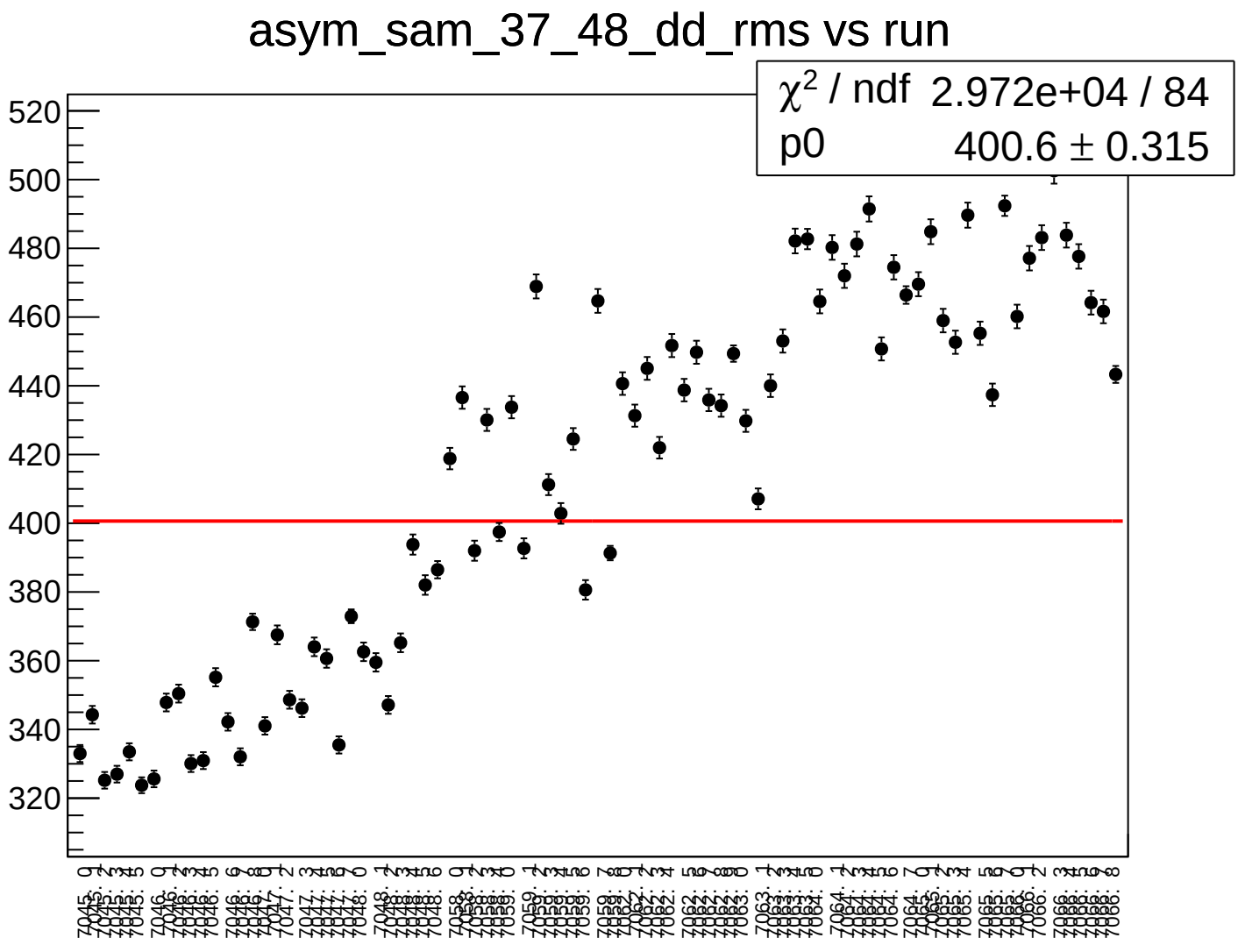

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.54 / 84
p0 631.7 ± 458.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 281.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

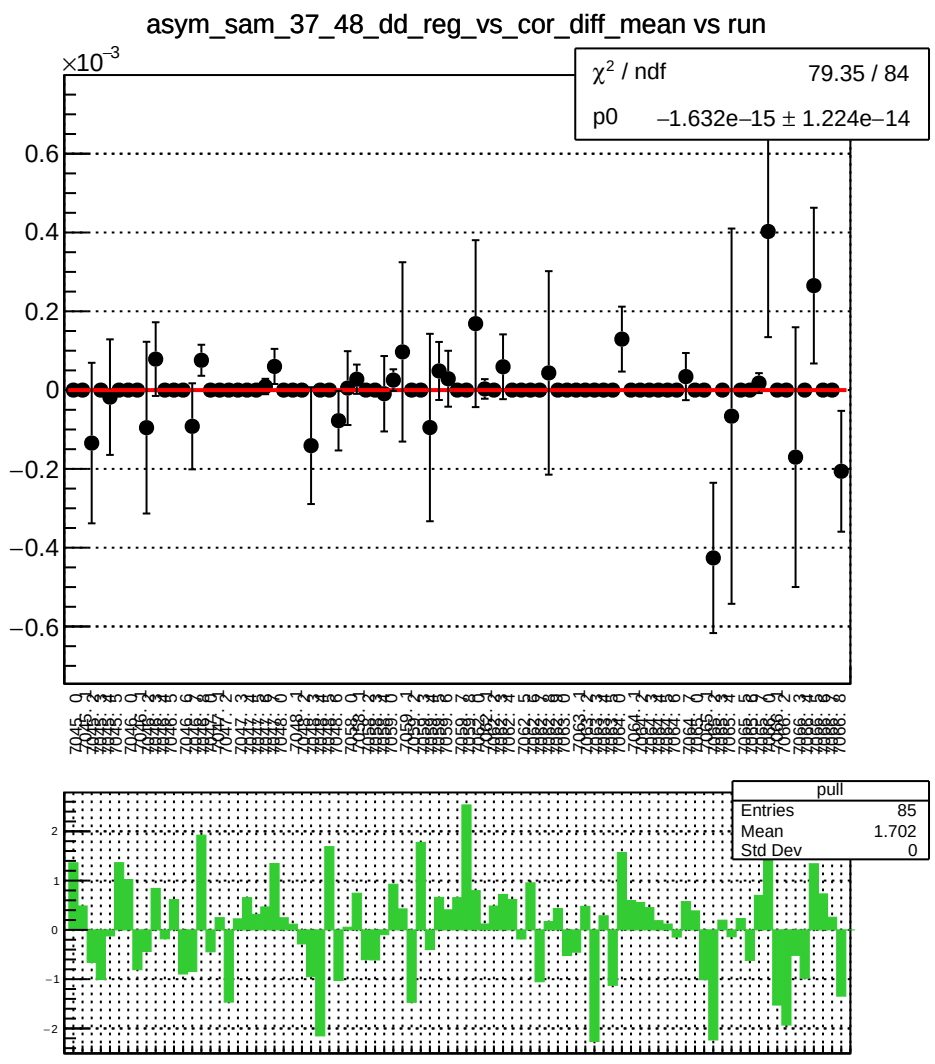

pull1D
Entries 85
Mean 0.02353
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

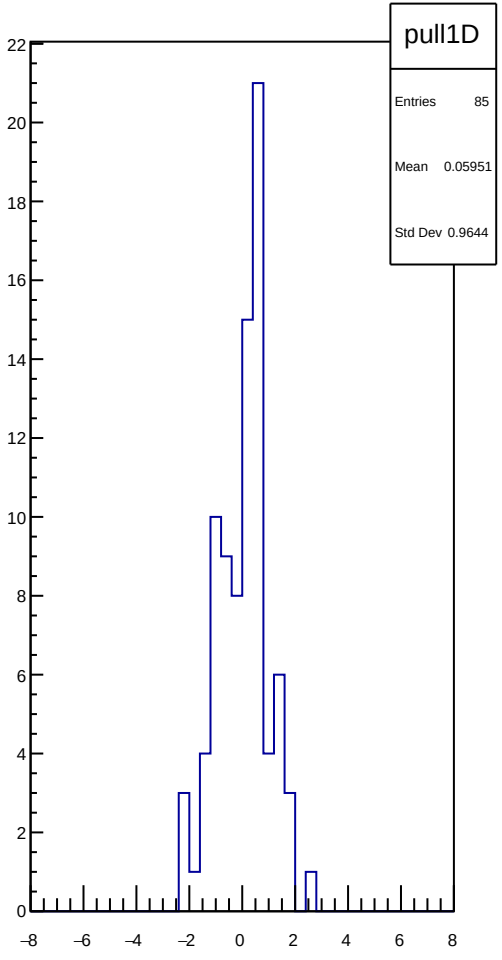

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.712e+04 / 84
p0 412.8 ± 0.3243
520
500
480
460
440
420
400
380
360
340
320

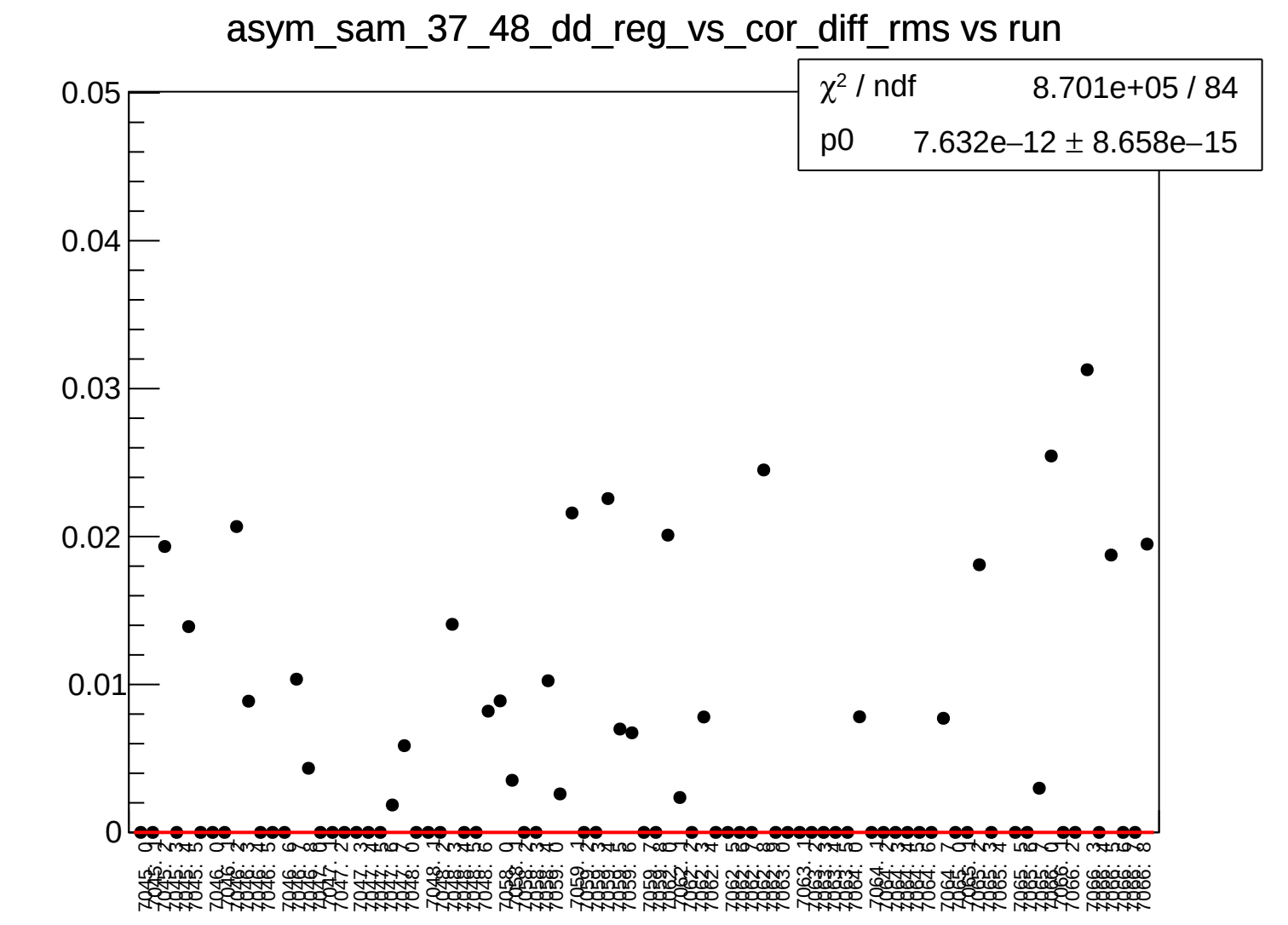

asym_sam_37_48_dd_mean vs run
χ² / ndf 87.48 / 84
p0 −762.8 ± 445.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 249.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

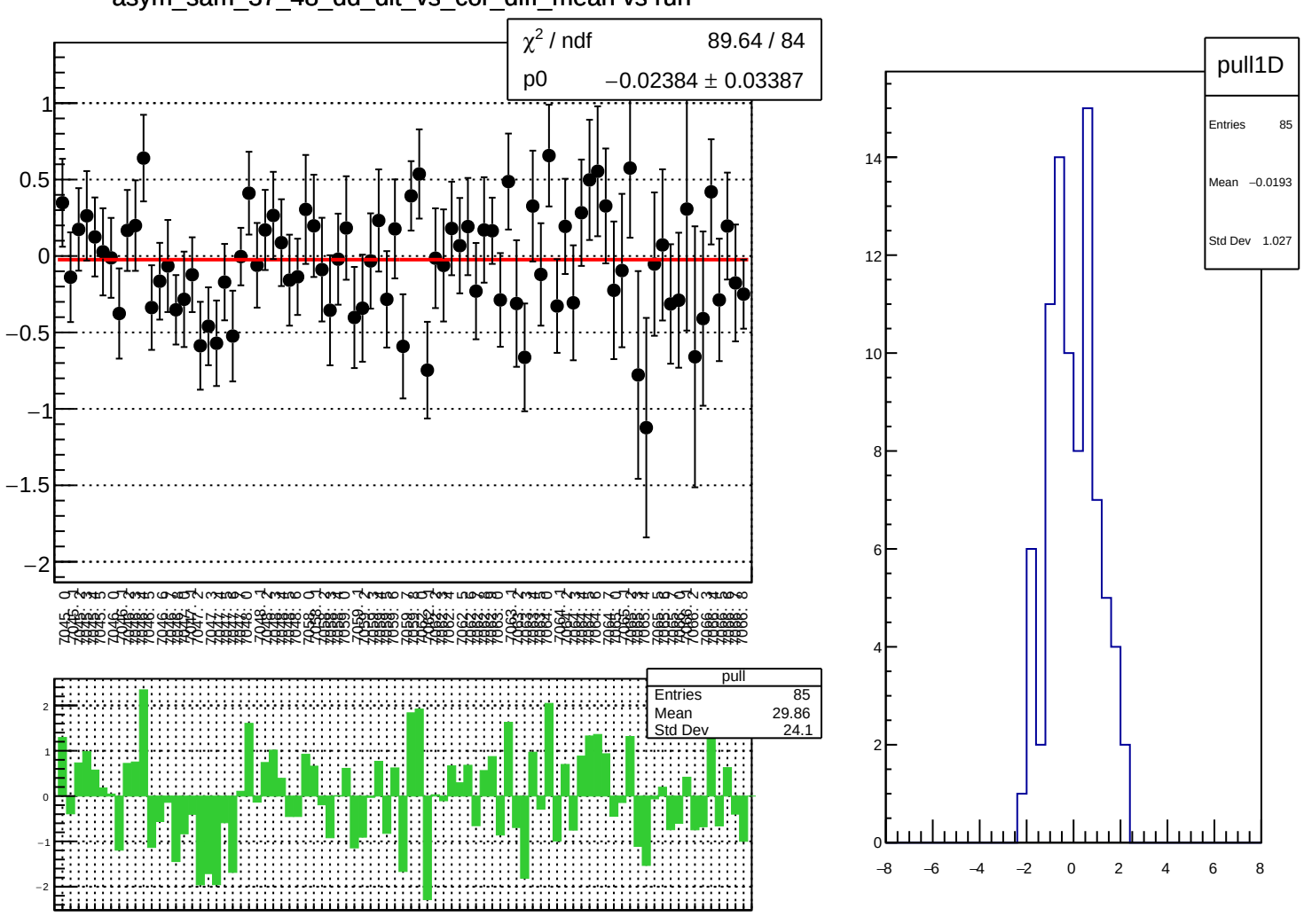

pull1D
Entries 85
Mean −0.02837
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

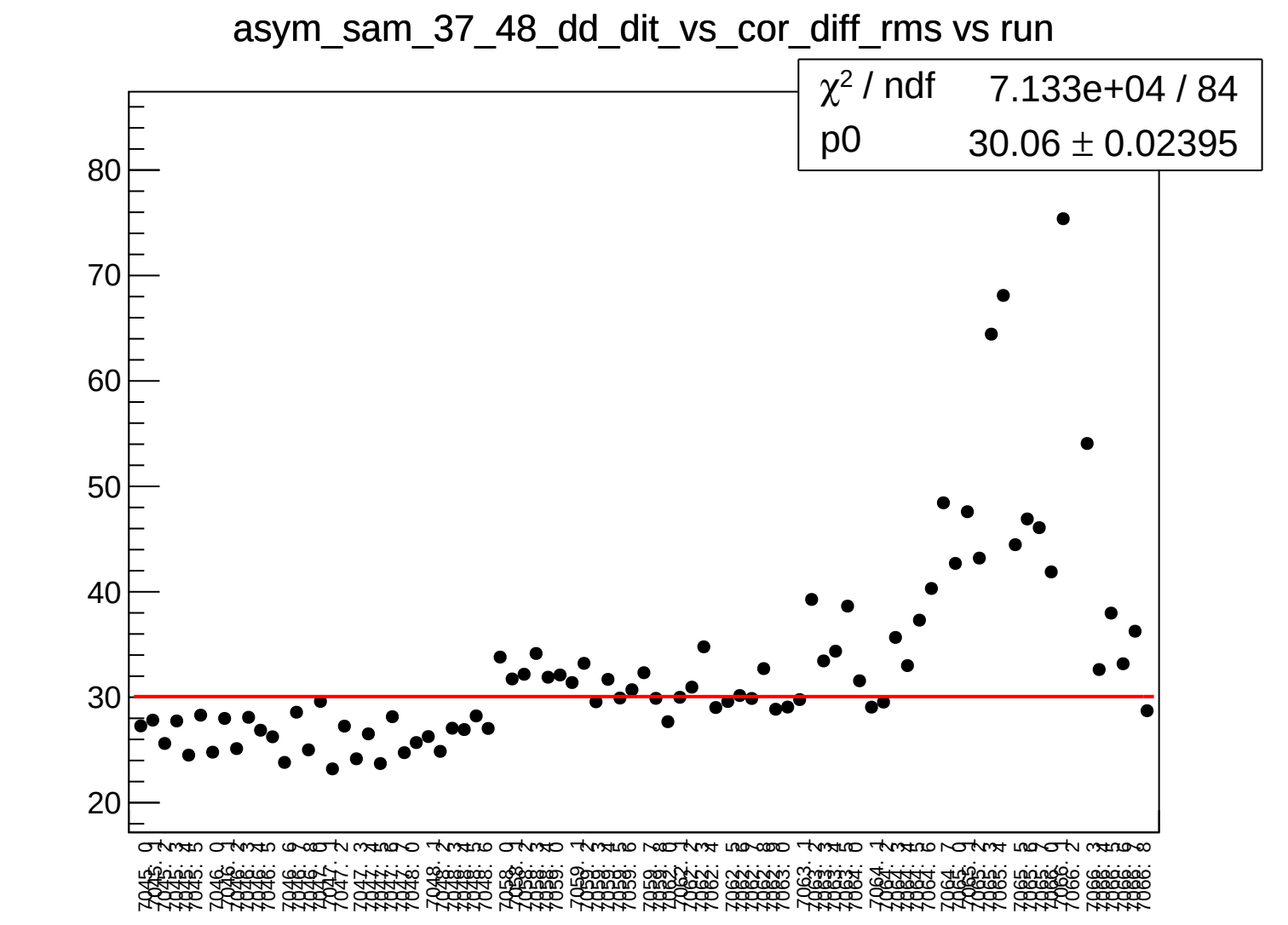

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.972e+04 / 84
p0 400.6 ± 0.315
520
500
480
460
440
420
400
380
360
340
320

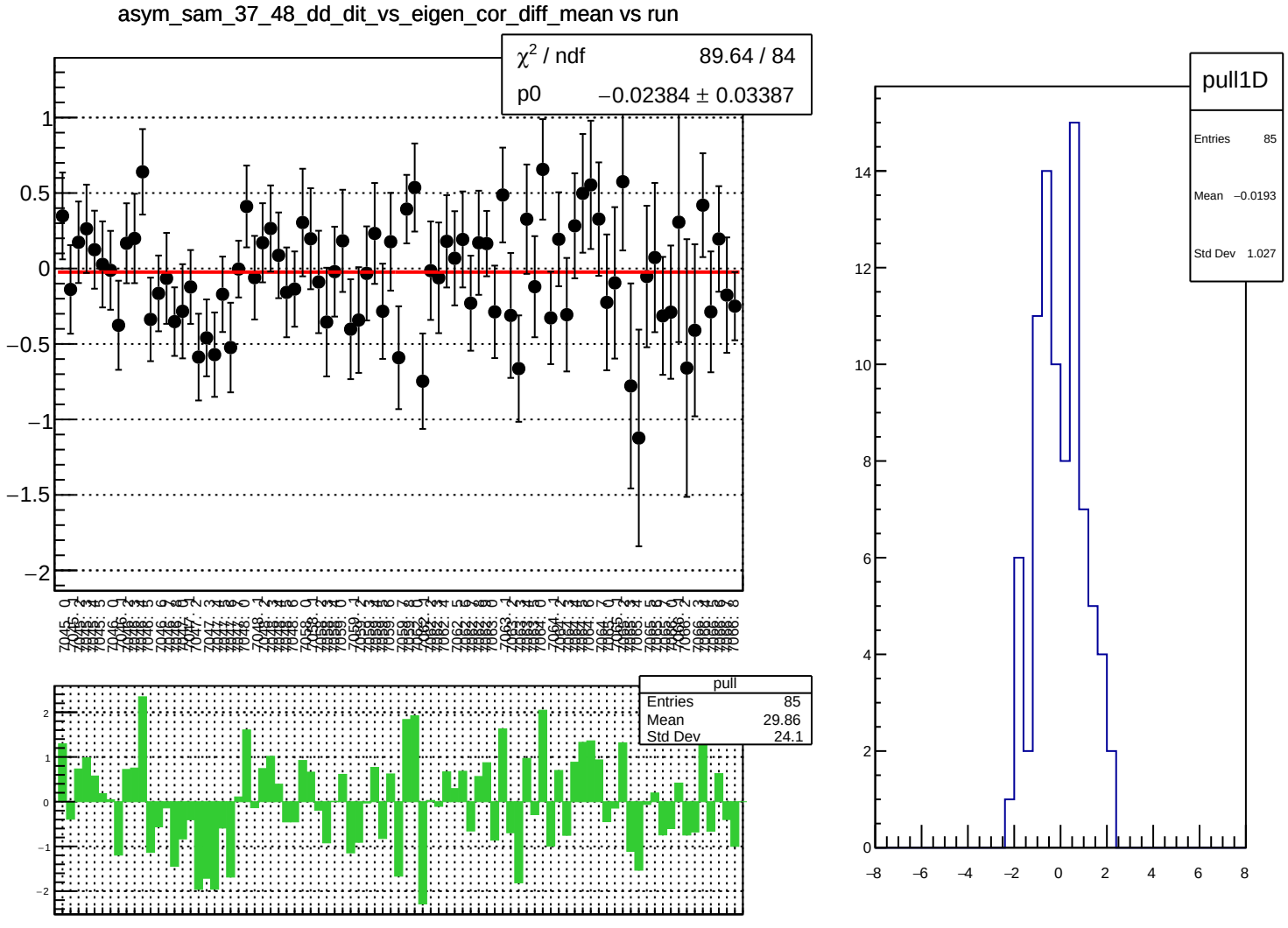

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 79.35 / 84
p0 −1.632e−15 ± 1.224e−14
pull
Entries 85
Mean 1.702
Std Dev 0

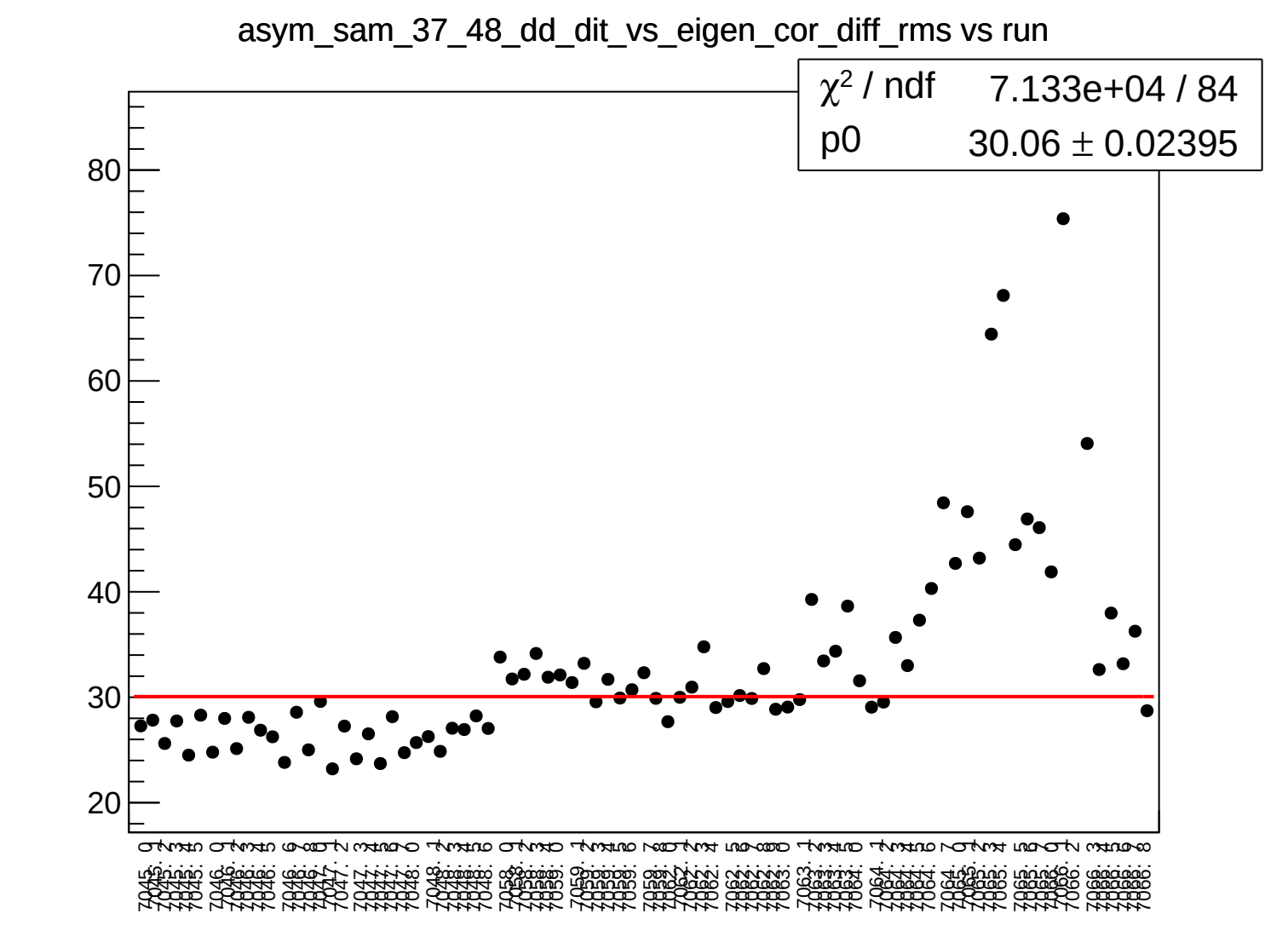

pull1D
Entries 85
Mean 0.05951
Std Dev 0.9644

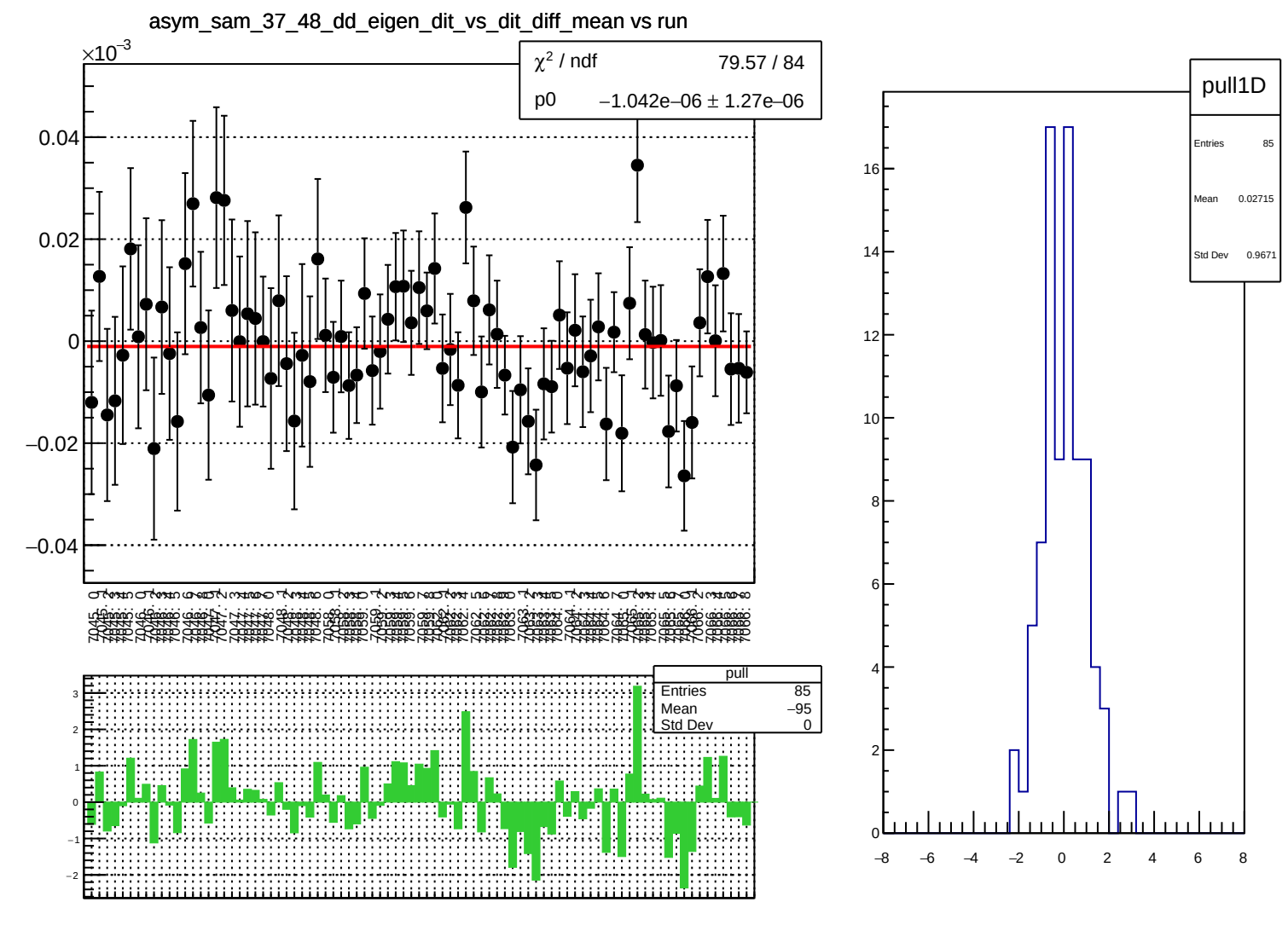

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.701e+05 / 84
p0 7.632e−12 ± 8.658e−15
0.05
0.04
0.03
0.02
0.01
0

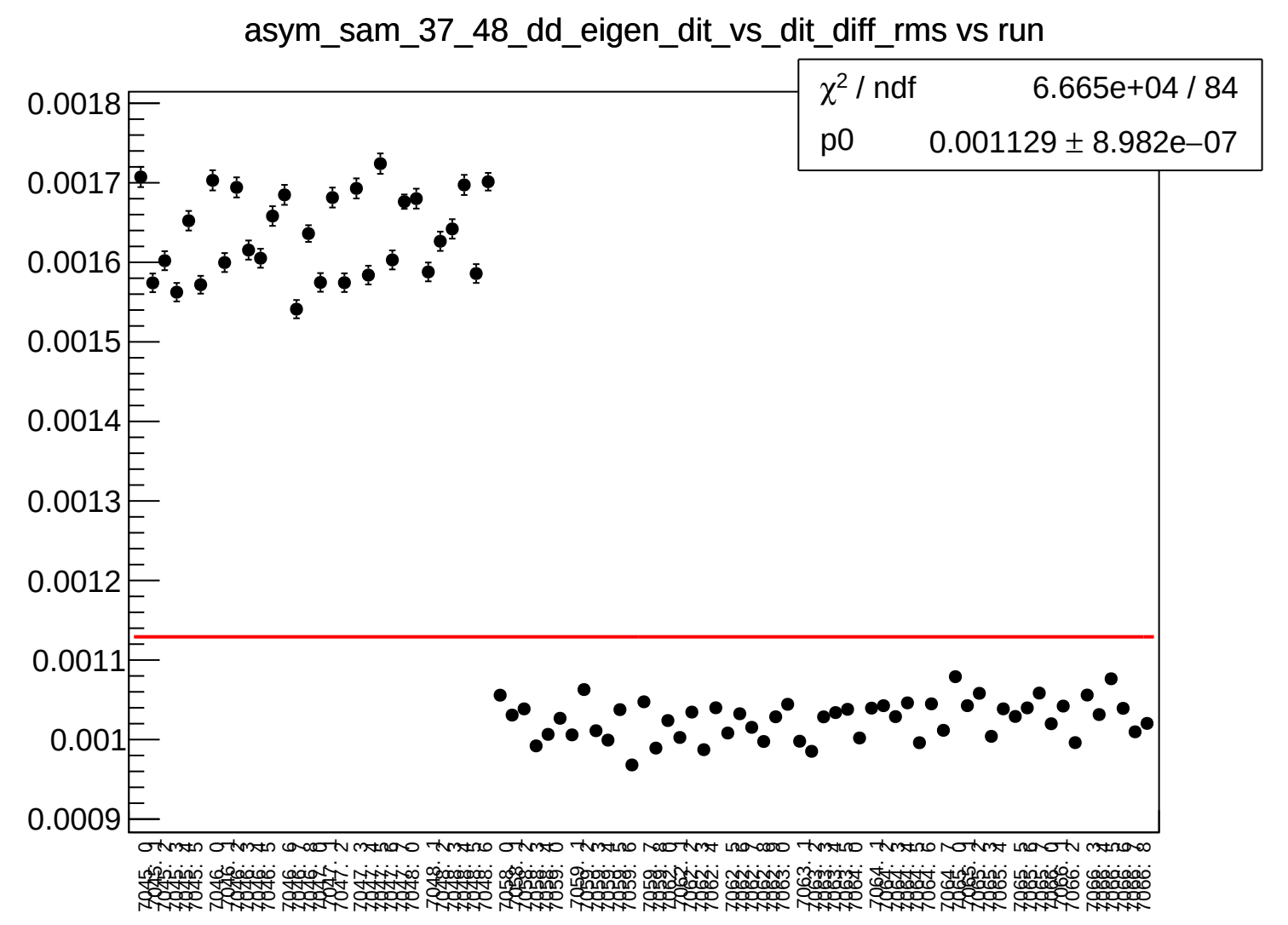

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.64 / 84
p0 −0.02384 ± 0.03387
pull
Entries 85
Mean 29.86
Std Dev 24.1
pull1D
Entries 85
Mean −0.0193
Std Dev 1.027

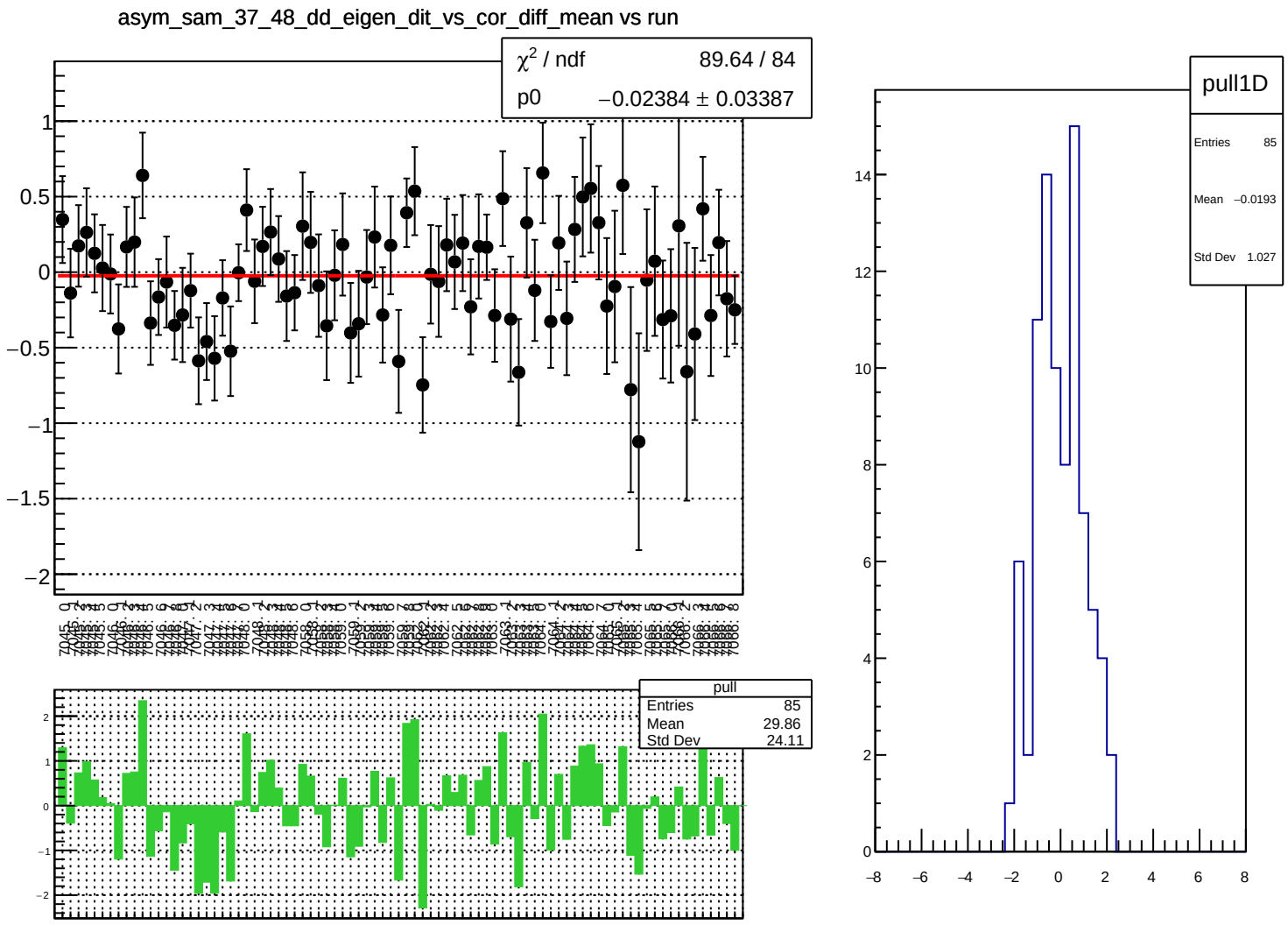

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.133e+04 / 84
p0 30.06 ± 0.02395
80
70
60
50
40
30
20

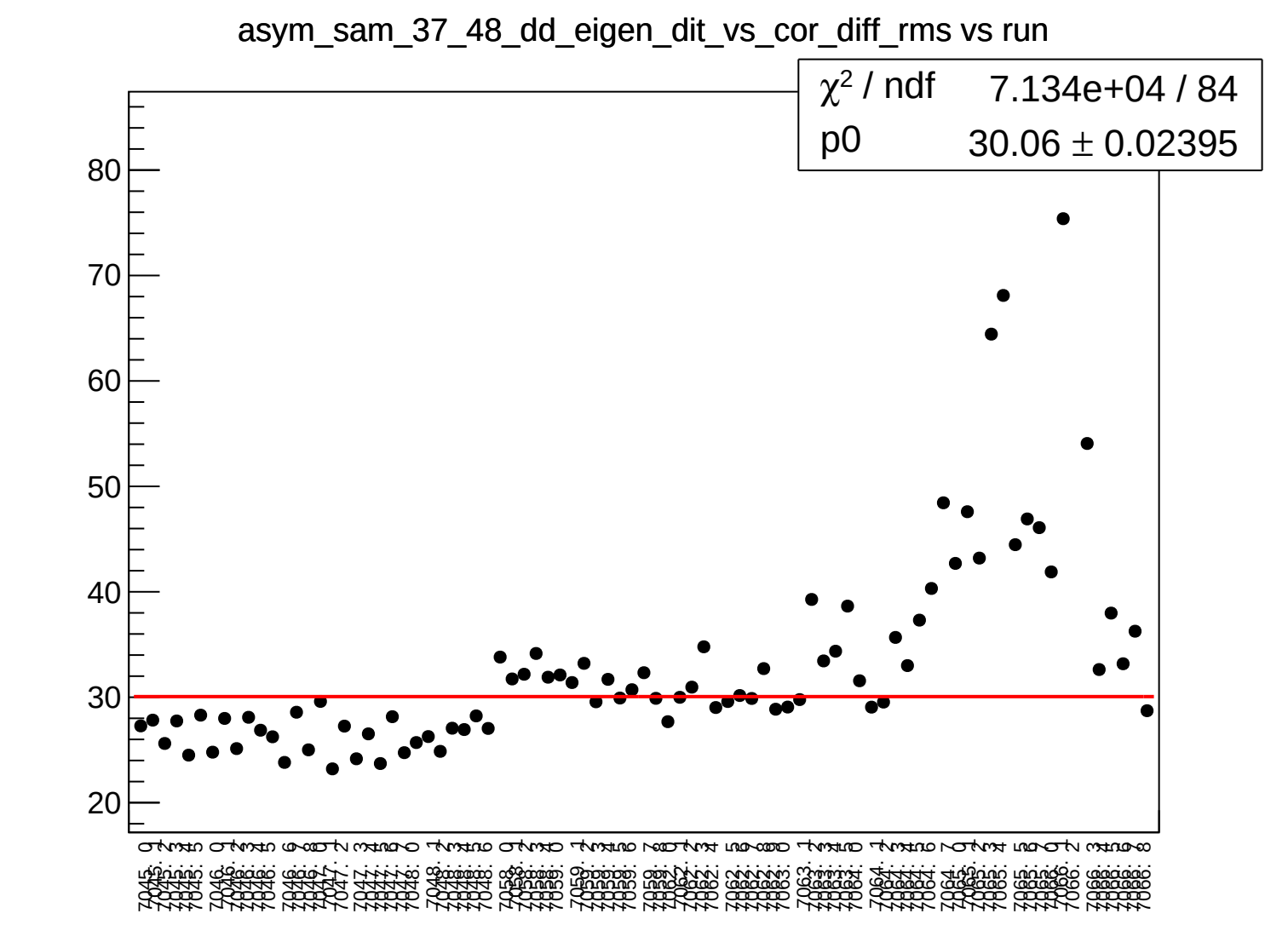

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.64 / 84
p0 −0.02384 ± 0.03387
pull
Entries 85
Mean 29.86
Std Dev 24.1
pull1D
Entries 85
Mean −0.0193
Std Dev 1.027

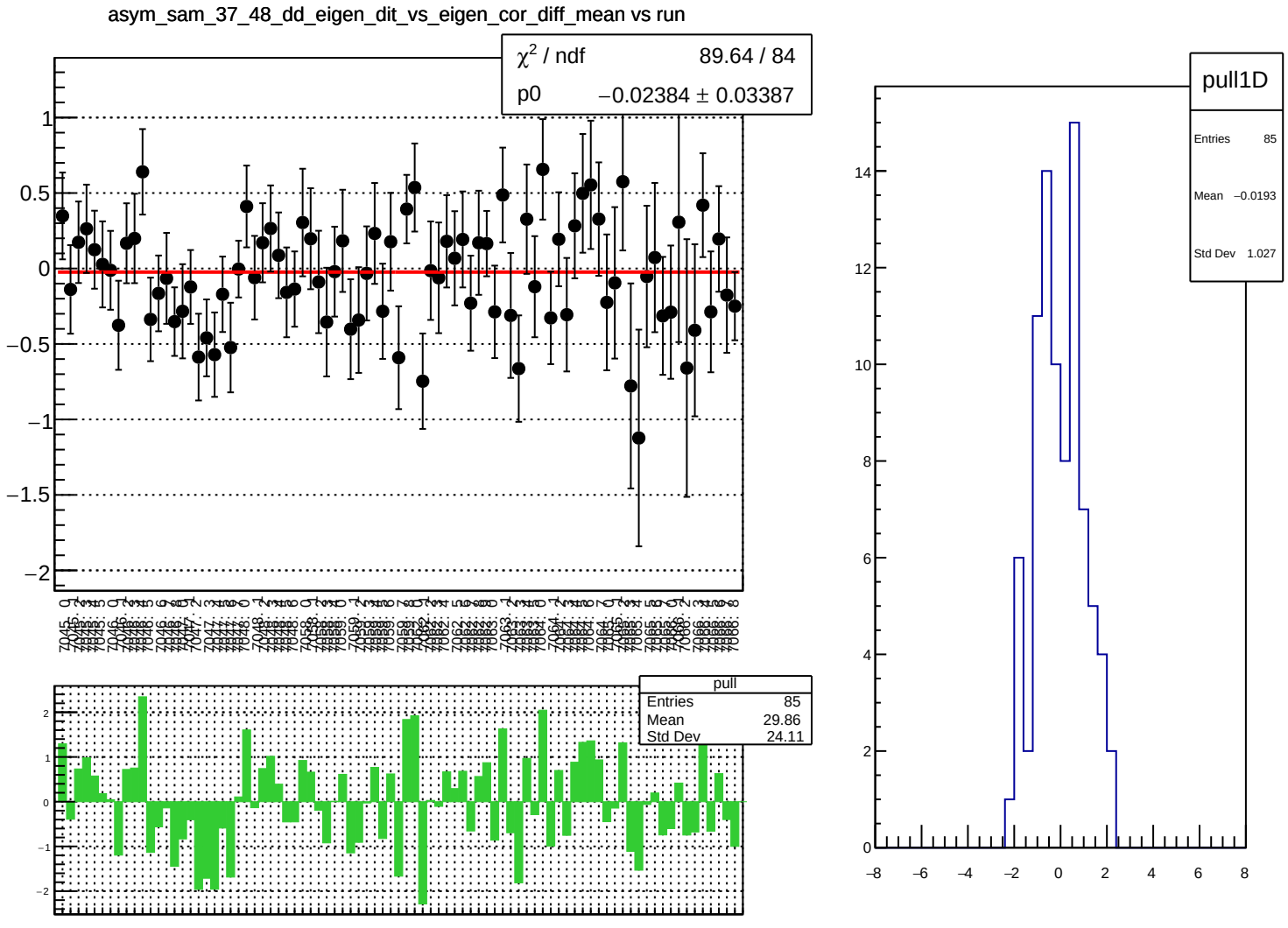

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.133e+04 / 84
p0 30.06 ± 0.02395
80
70
60
50
40
30
20

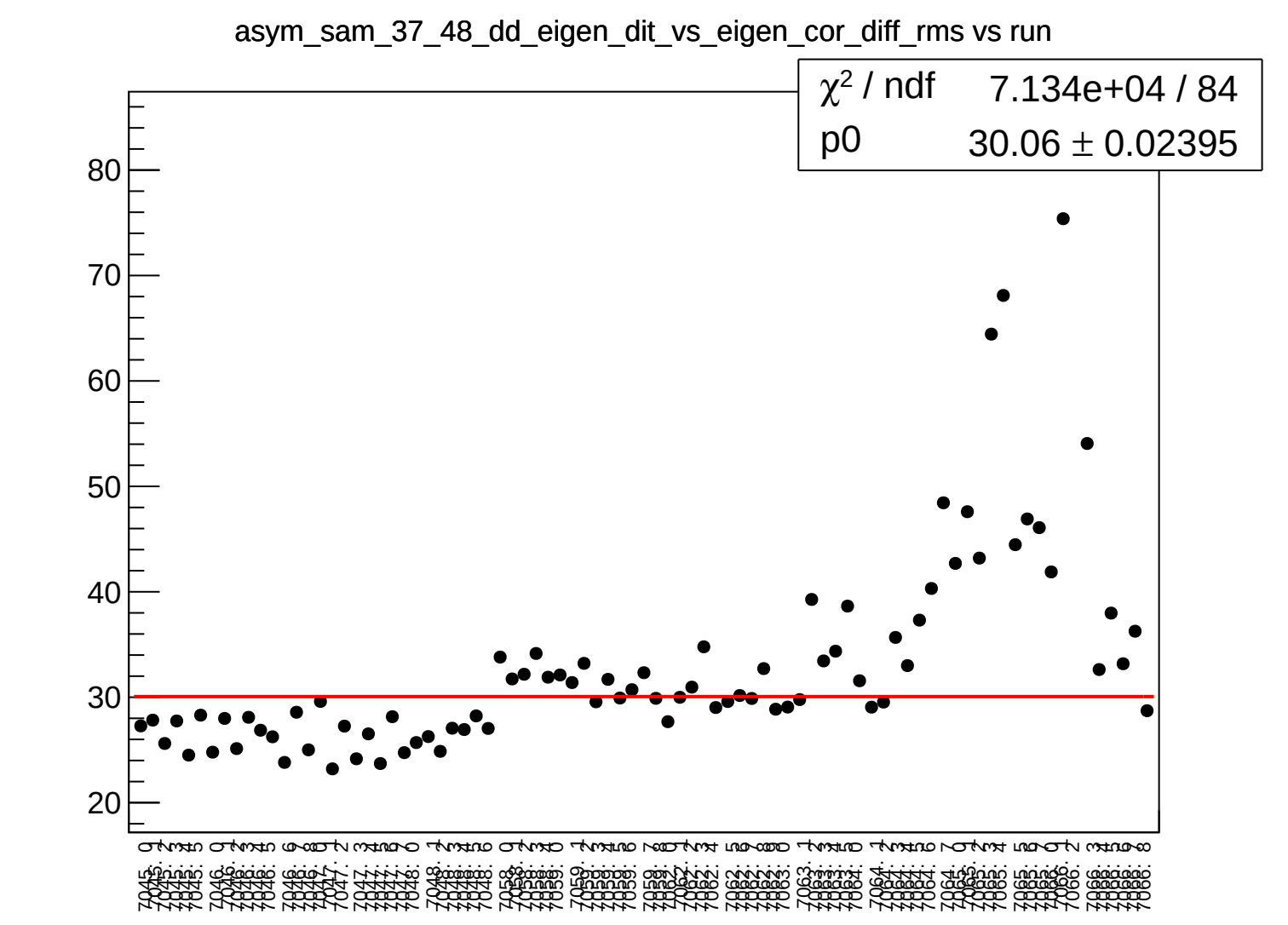

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 79.57 / 84
p0 −1.042e−06 ± 1.27e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 85
Mean −95
Std Dev 0
pull1D
Entries 85
Mean 0.02715
Std Dev 0.9671

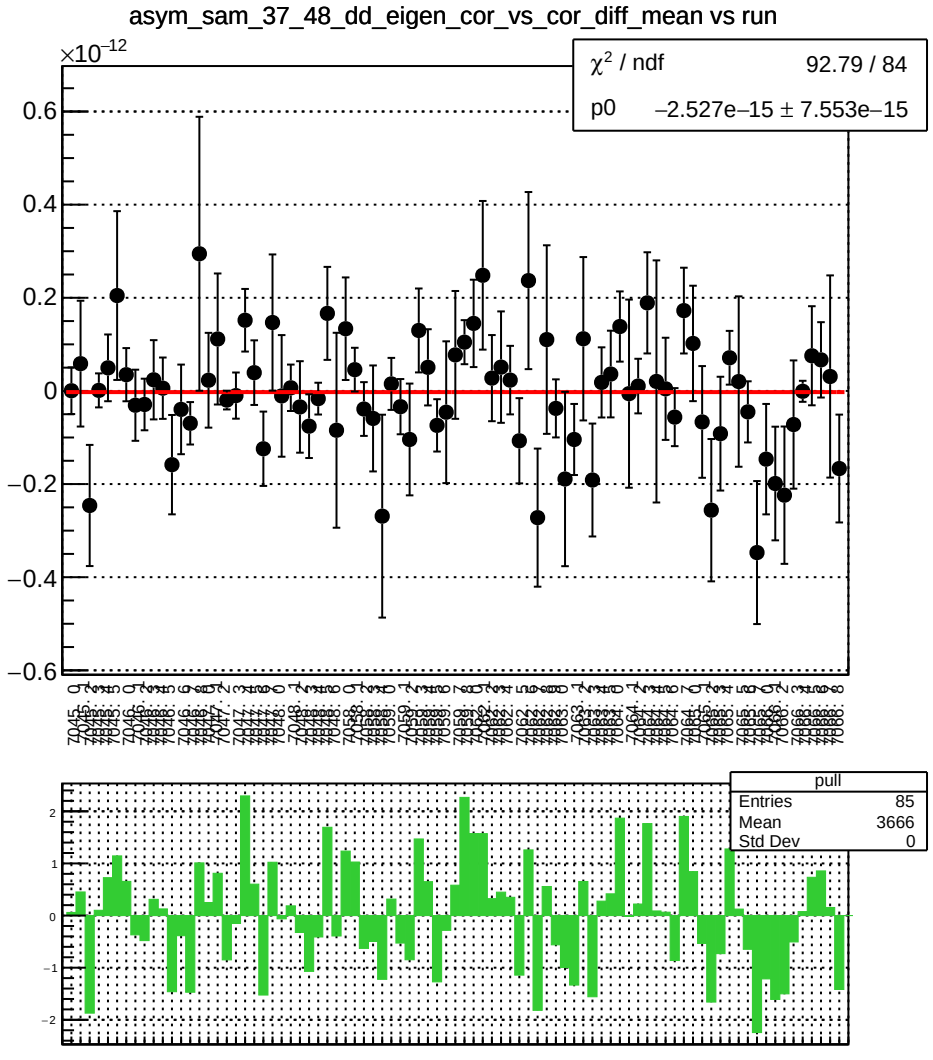

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.665e+04 / 84
p0 0.001129 ± 8.982e−07
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

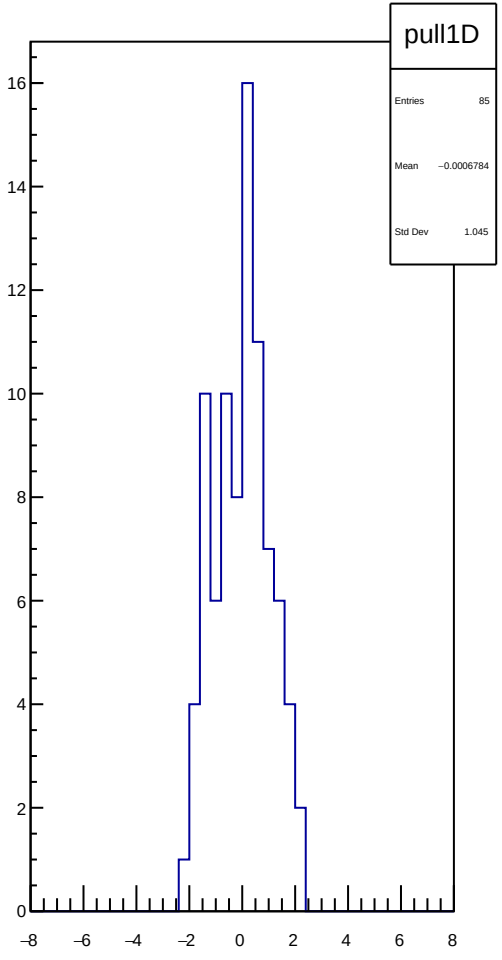

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.64 / 84
p0 −0.02384 ± 0.03387
pull
Entries 85
Mean 29.86
Std Dev 24.11
pull1D
Entries 85
Mean −0.0193
Std Dev 1.027

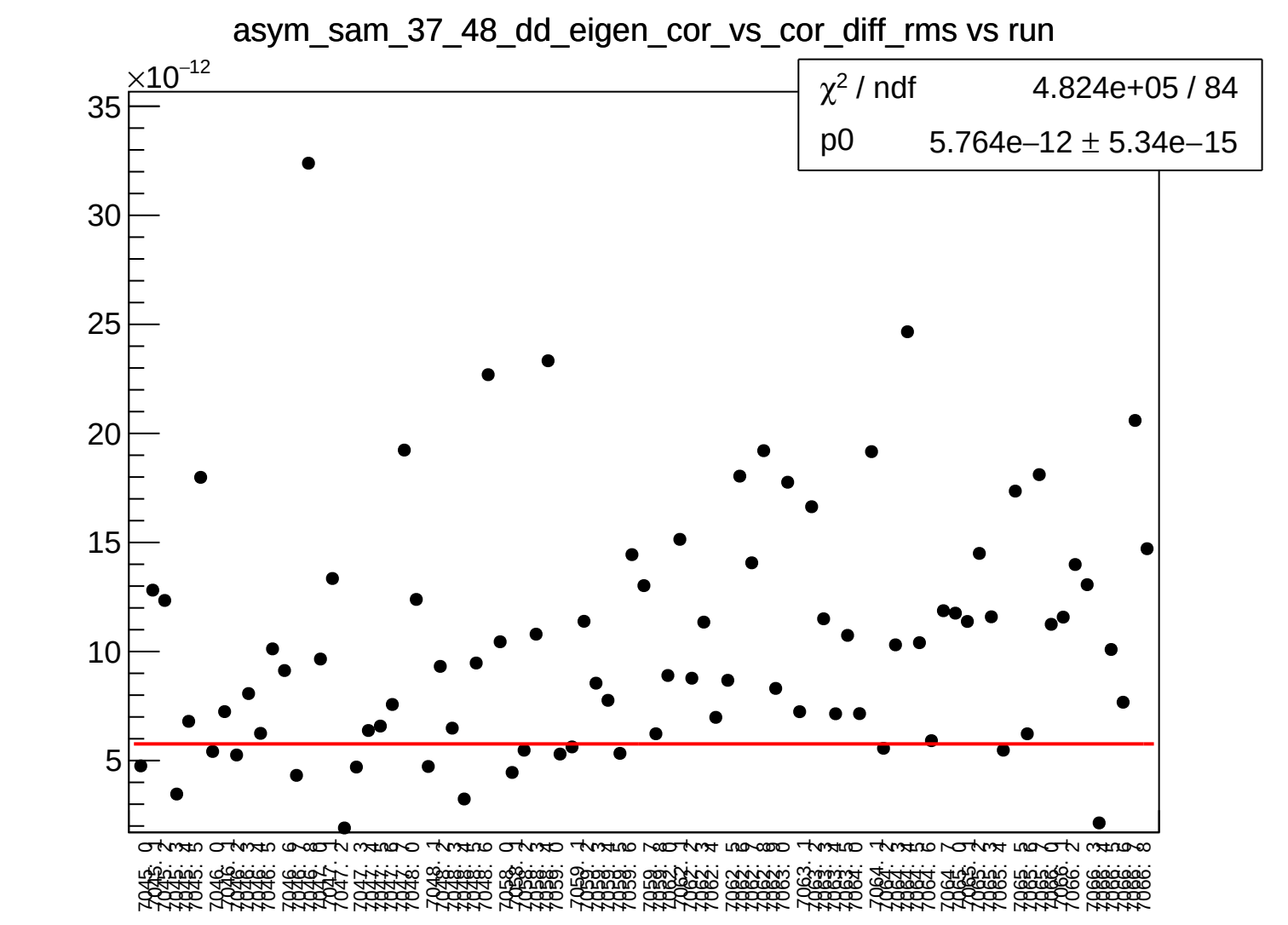

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.134e+04 / 84
p0 30.06 ± 0.02395
80
70
60
50
40
30
20

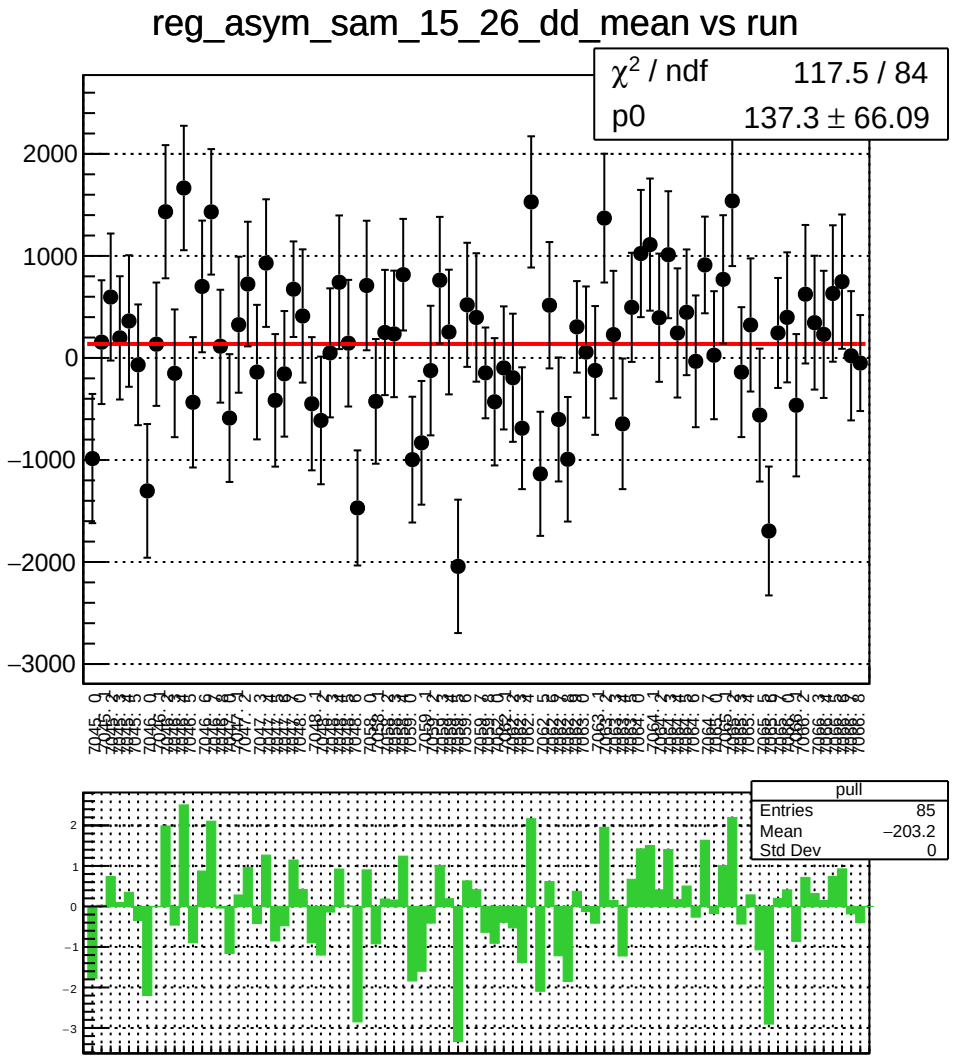

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.64 / 84
p0 −0.02384 ± 0.03387
pull
Entries 85
Mean 29.86
Std Dev 24.11
pull1D
Entries 85
Mean −0.0193
Std Dev 1.027

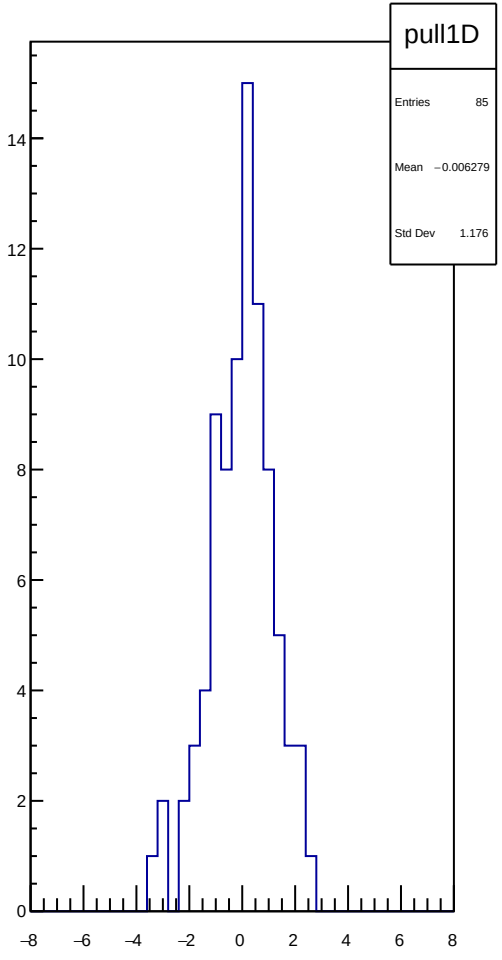

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.134e+04 / 84
p0 30.06 ± 0.02395
80
70
60
50
40
30
20

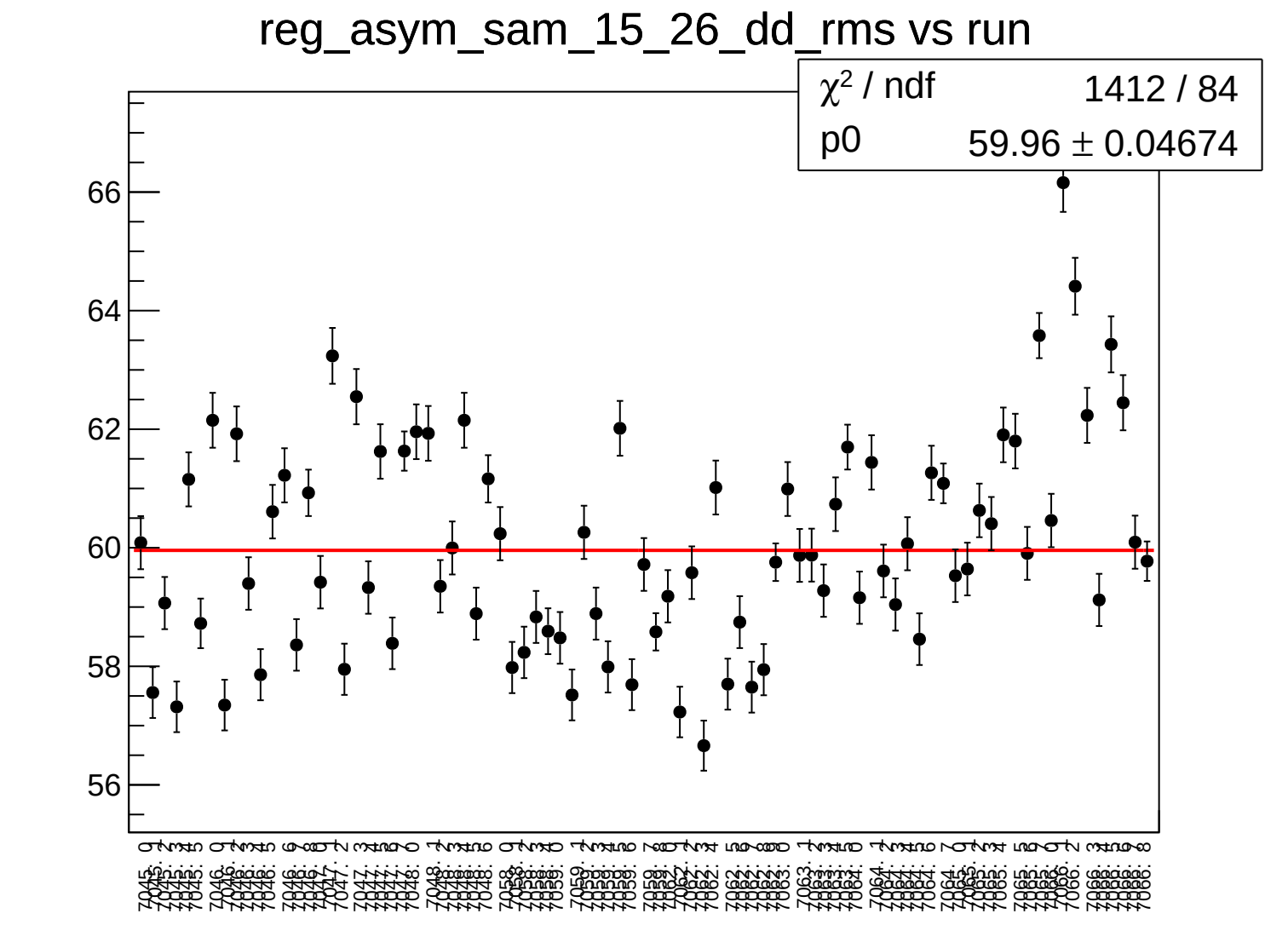

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.79 / 84
p0 −2.527e−15 ± 7.553e−15
pull
Entries 85
Mean 3666
Std Dev 0

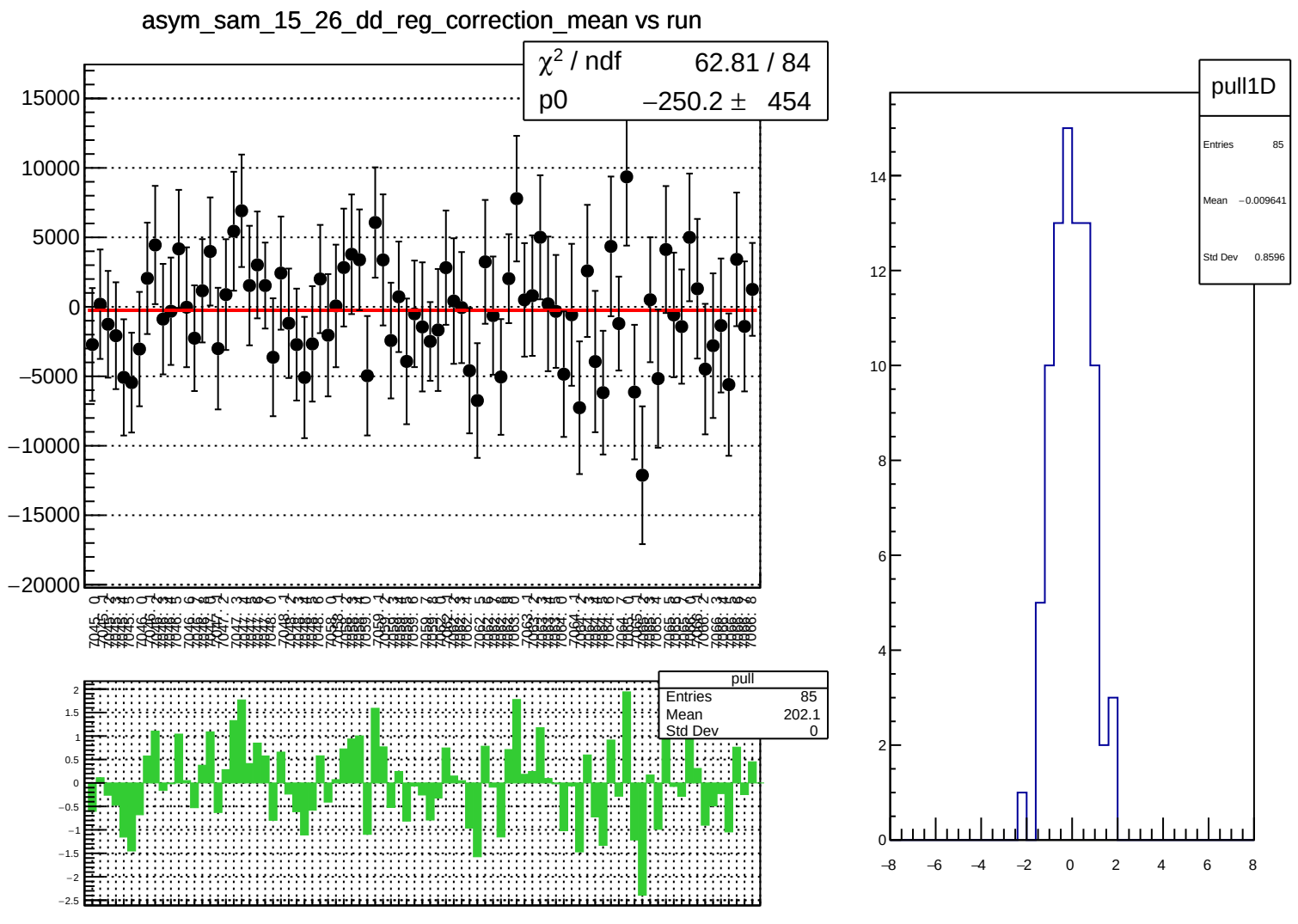

pull1D
Entries 85
Mean −0.0006784
Std Dev 1.045

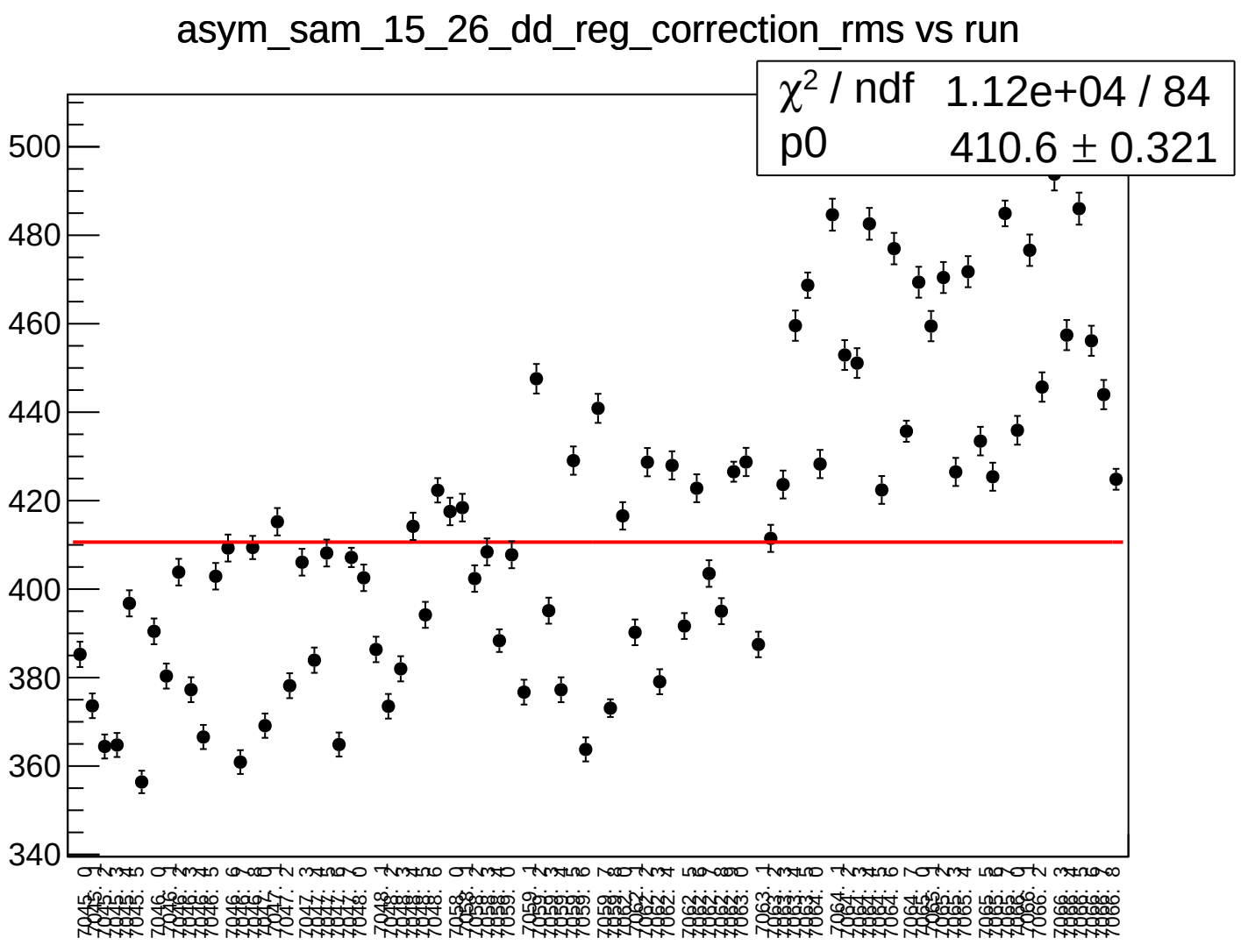

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.824e+05 / 84
p0 5.764e−12 ± 5.34e−15
35
30
25
20
15
10
5

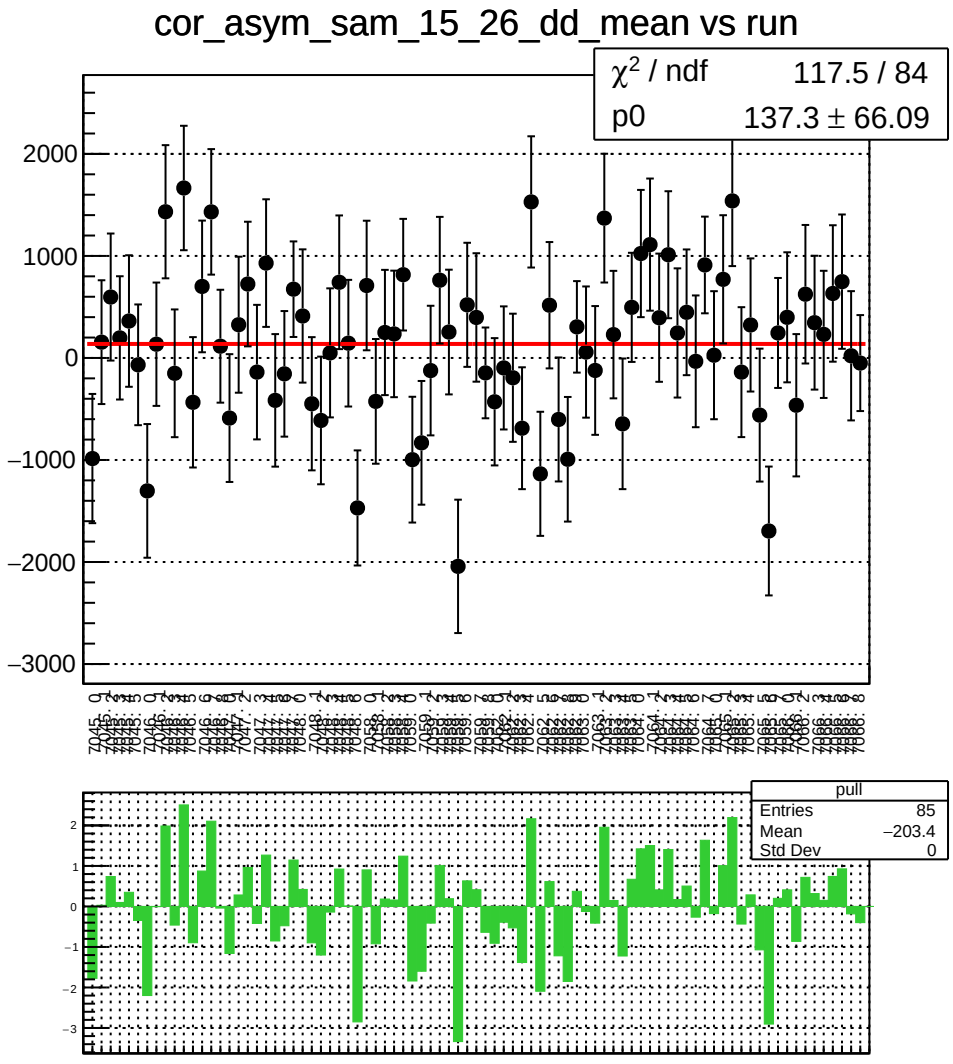

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 117.5 / 84
p0 137.3 ± 66.09
pull
Entries 85
Mean −203.2
Std Dev 0

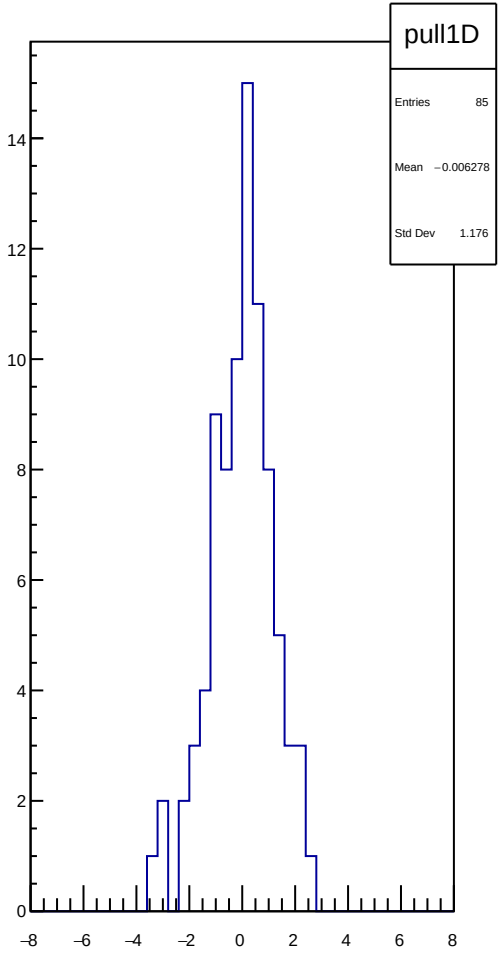

pull1D
Entries 85
Mean −0.006279
Std Dev 1.176

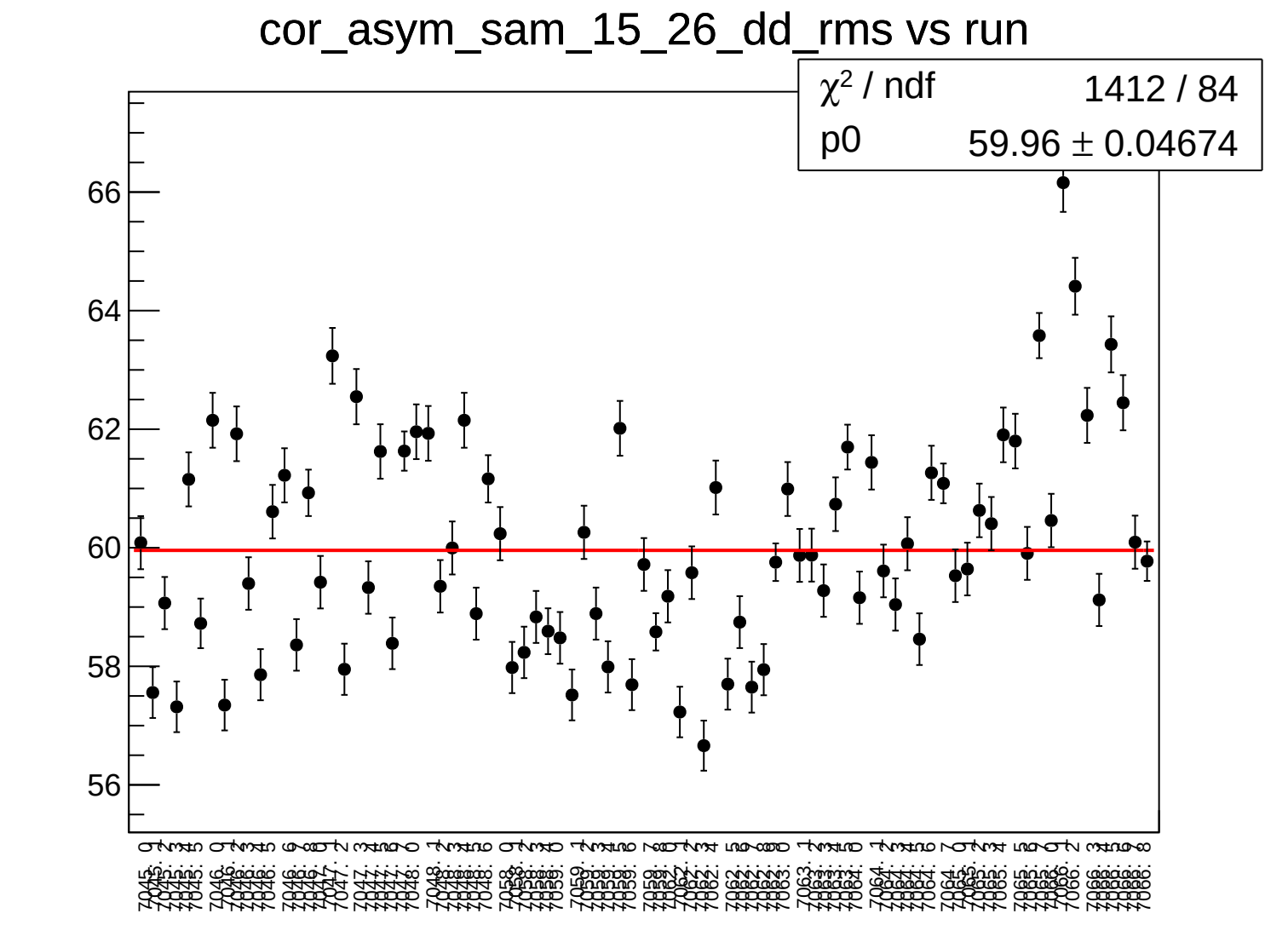

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1412 / 84
p0 59.96 ± 0.04674
66
64
62
60
58
56

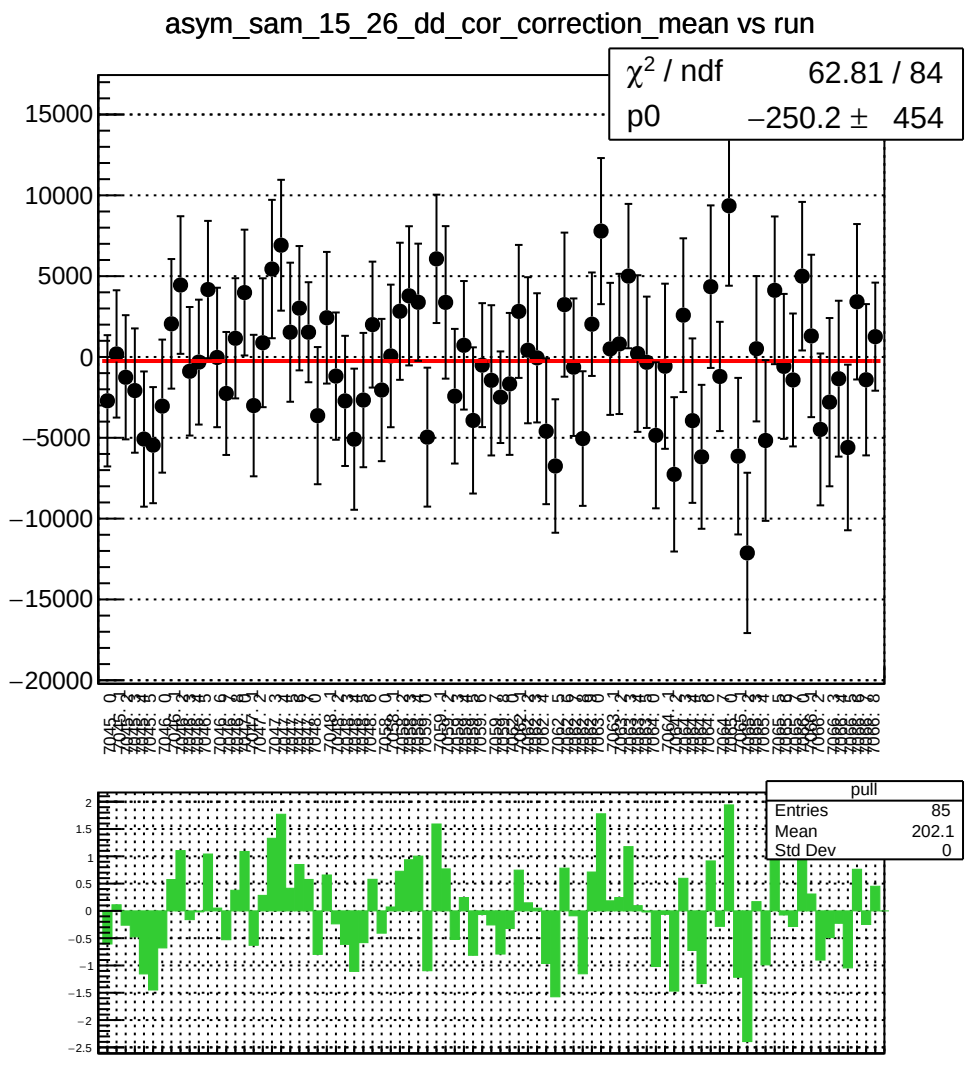

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 62.81 / 84
p0 −250.2 ± 454
pull
Entries 85
Mean 202.1
Std Dev 0
pull1D
Entries 85
Mean −0.009641
Std Dev 0.8596

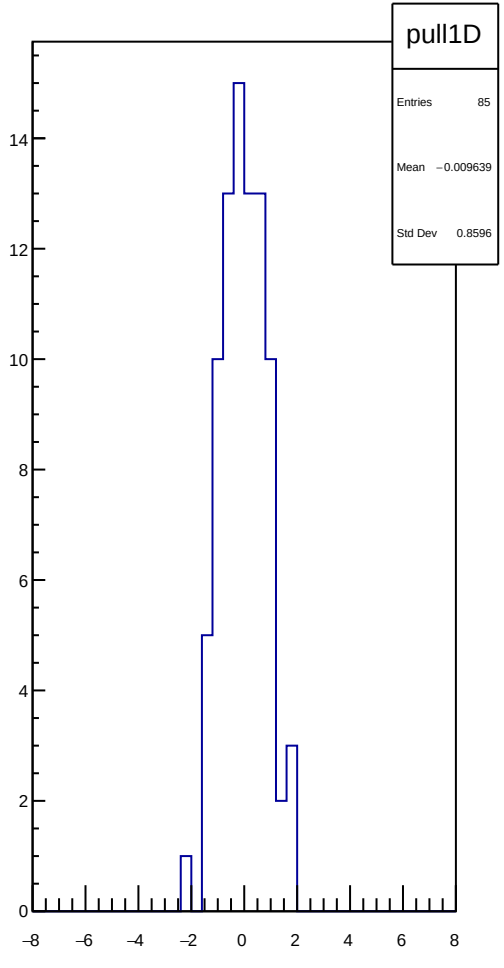

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.12e+04 / 84
p0 410.6 ± 0.321
500
480
460
440
420
400
380
360
340

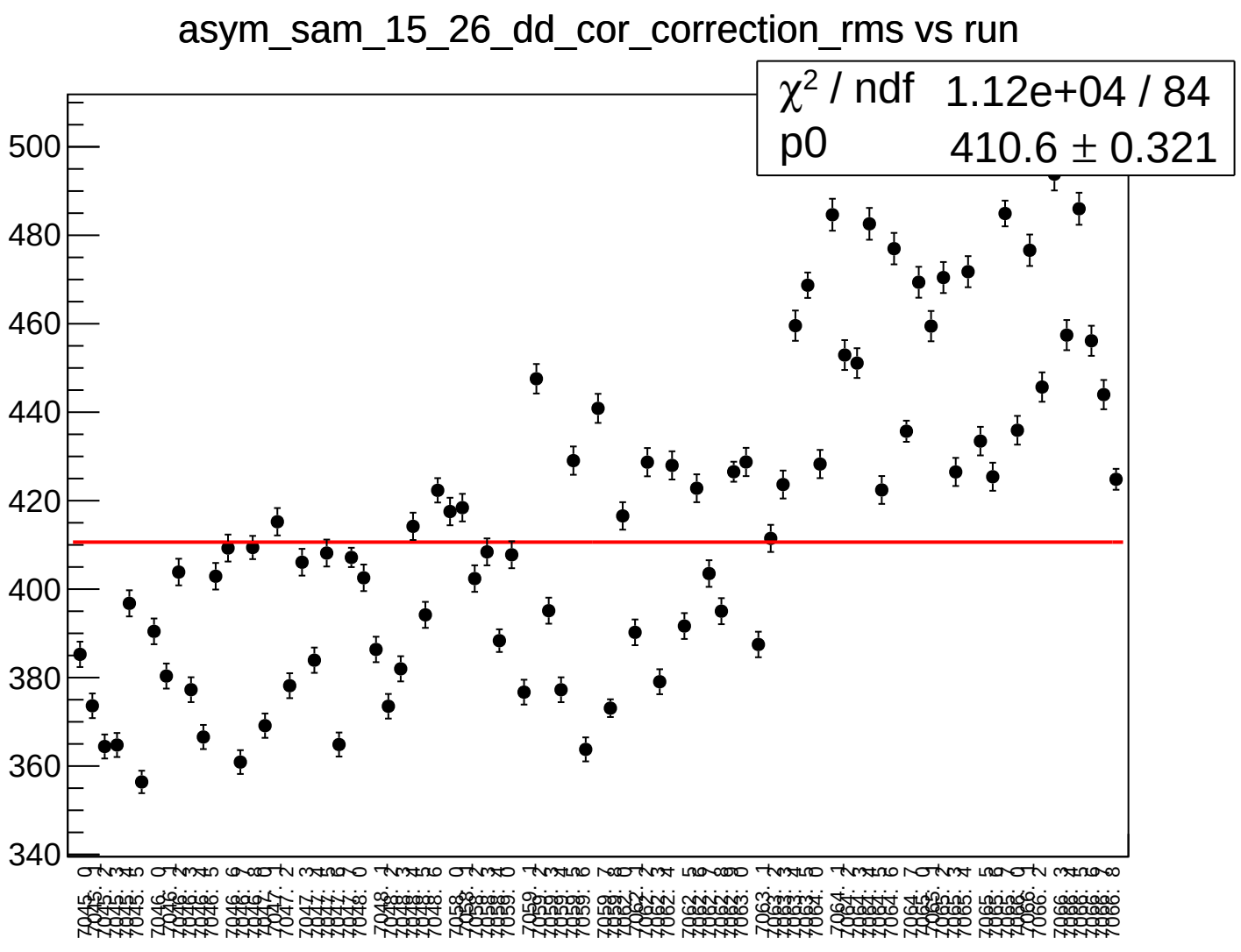

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 117.5 / 84
p0 137.3 ± 66.09
pull
Entries 85
Mean −203.4
Std Dev 0

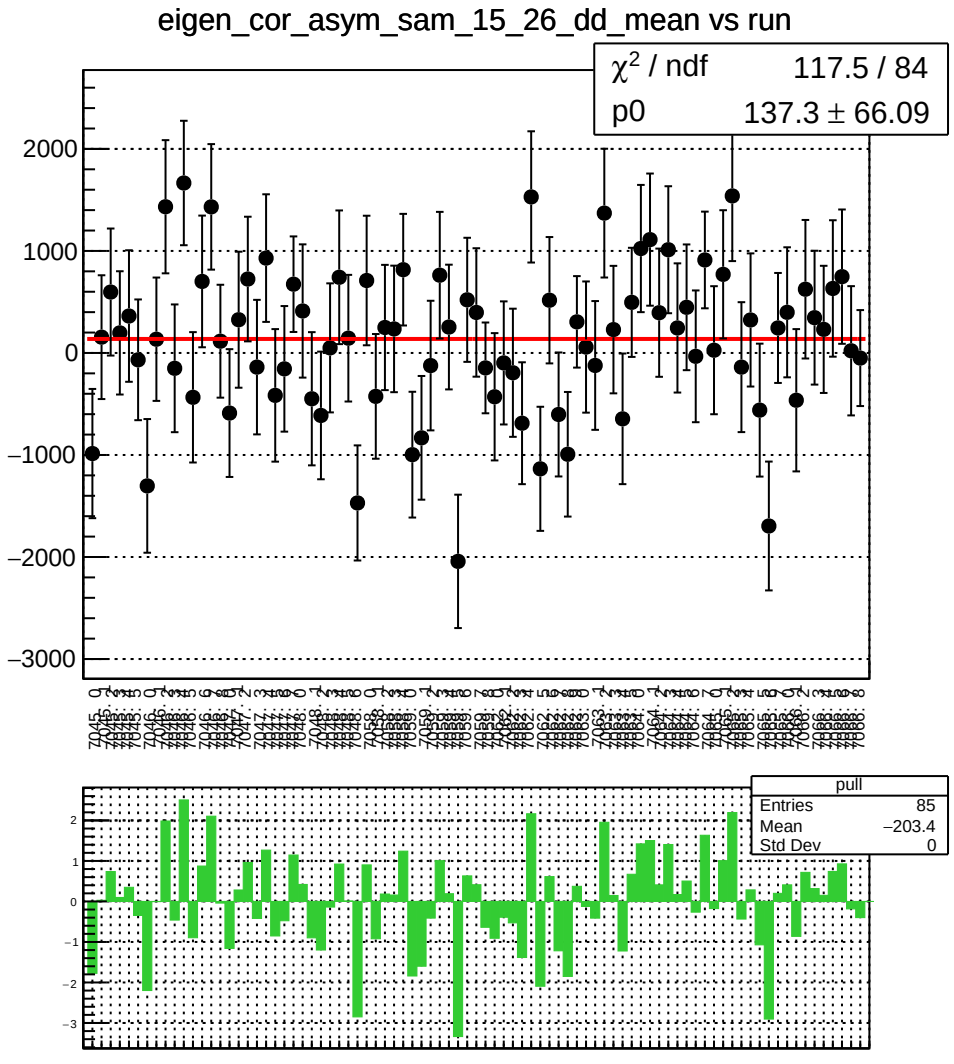

pull1D
Entries 85
Mean −0.006278
Std Dev 1.176

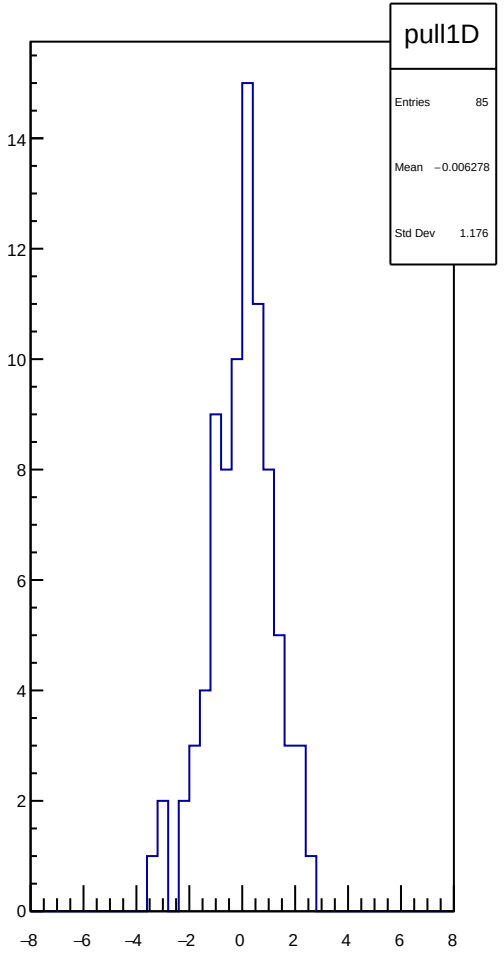

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1412 / 84
p0 59.96 ± 0.04674
66
64
62
60
58
56

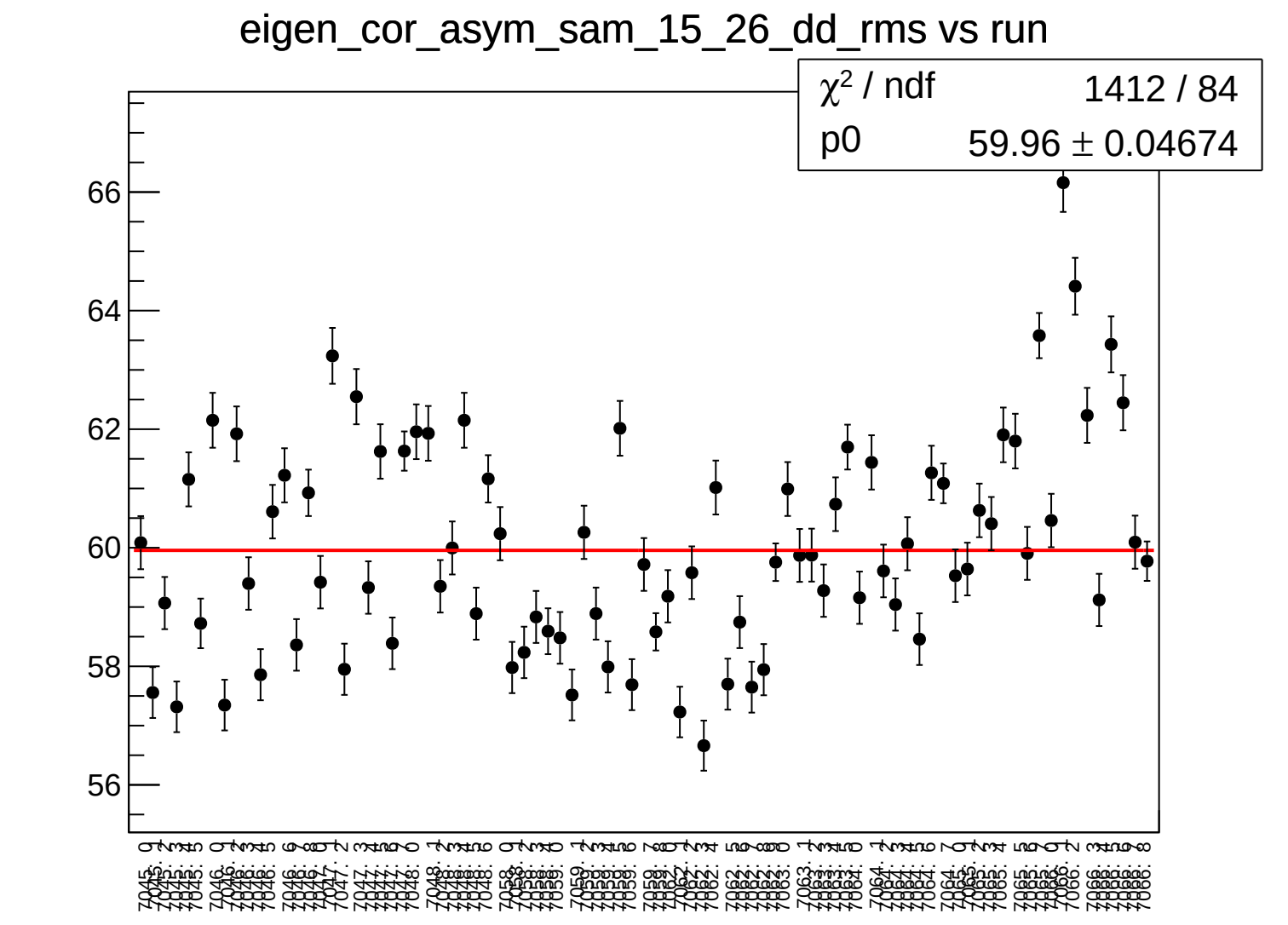

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 62.81 / 84
p0 −250.2 ± 454
pull
Entries 85
Mean 202.1
Std Dev 0

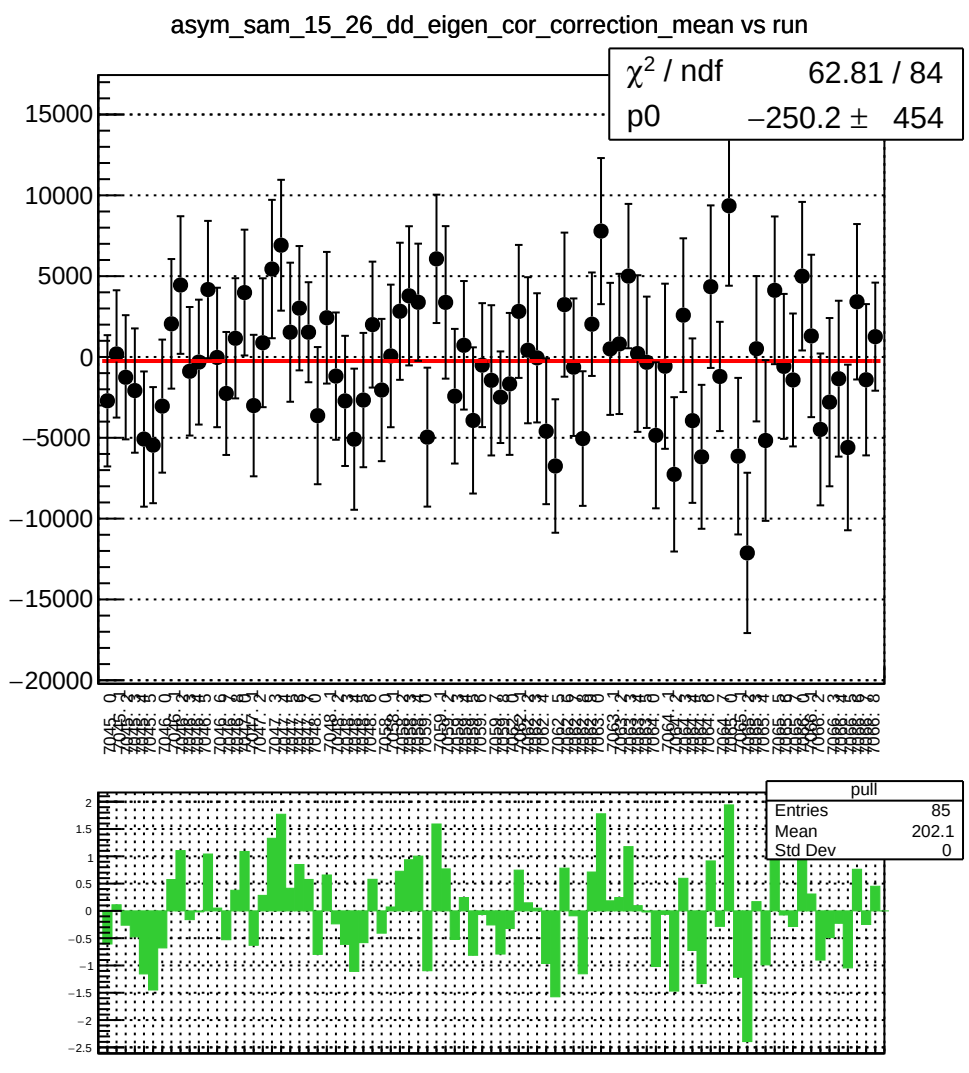

pull1D
Entries 85
Mean −0.009639
Std Dev 0.8596

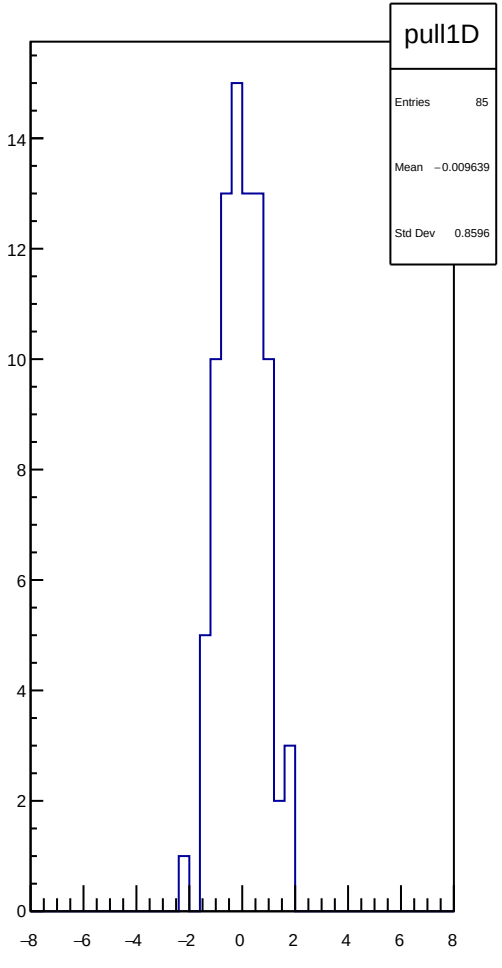

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 84
p0 410.6 ± 0.321
500
480
460
440
420
400
380
360
340

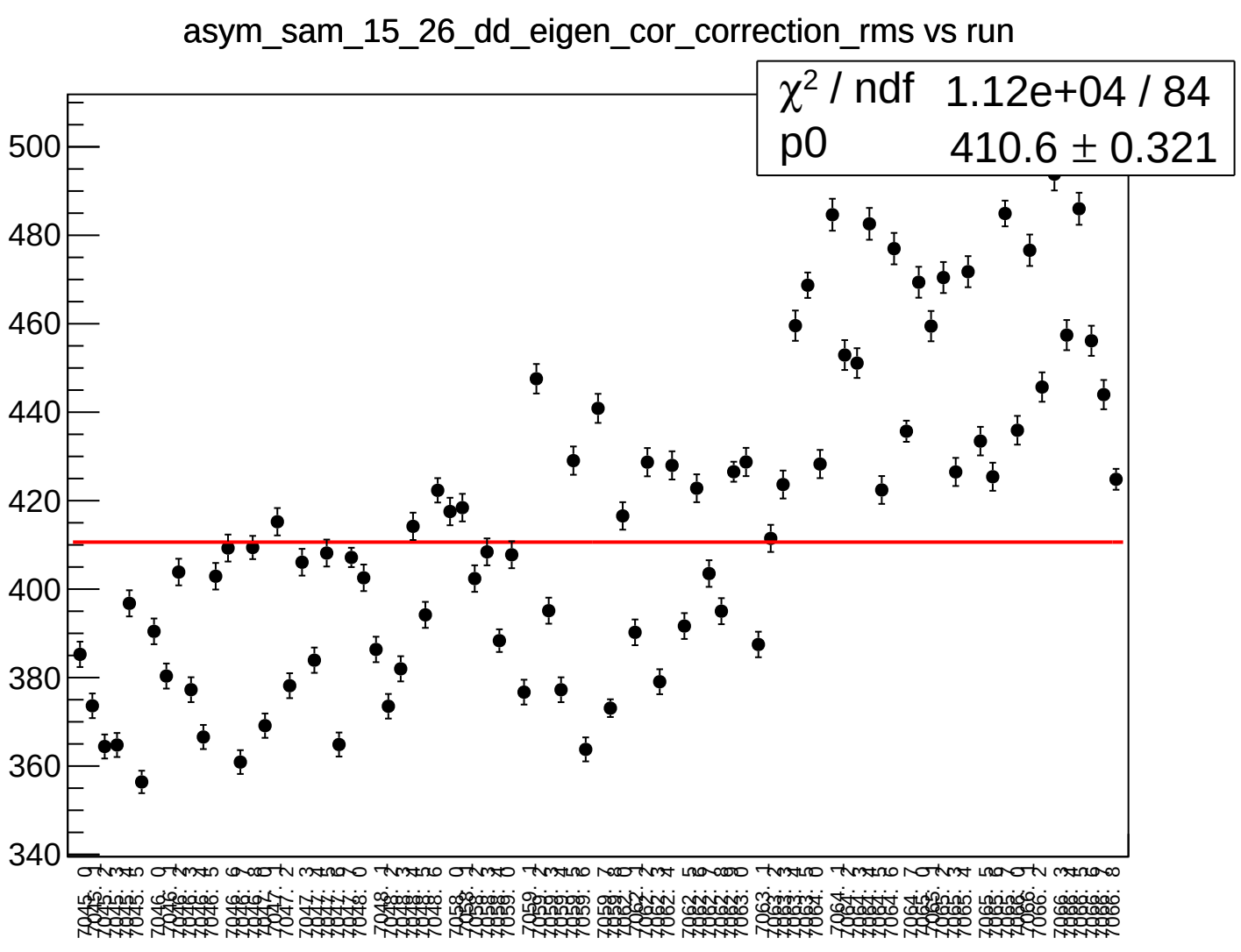

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 117.5 / 84
p0 137.3 ± 66.09
pull
Entries 85
Mean −203.4
Std Dev 0

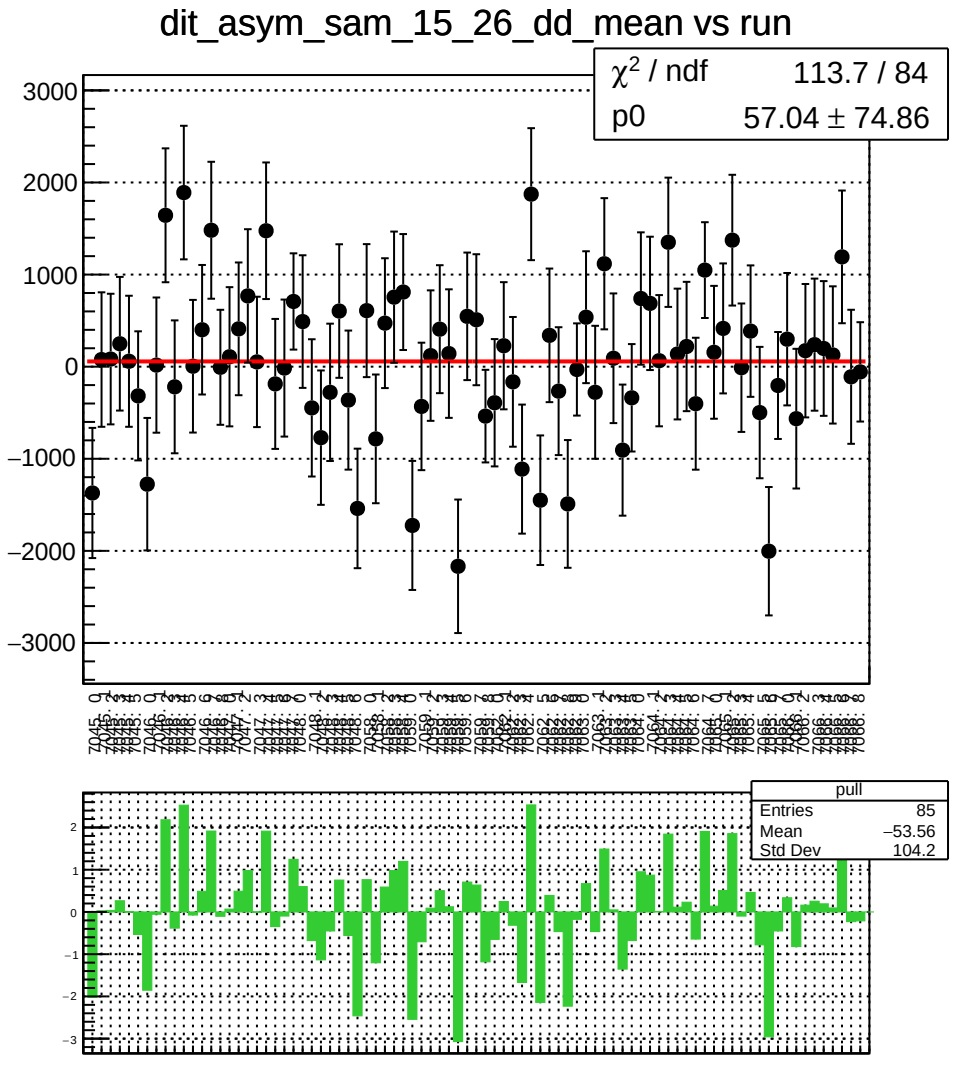

pull1D
Entries 85
Mean −0.006278
Std Dev 1.176

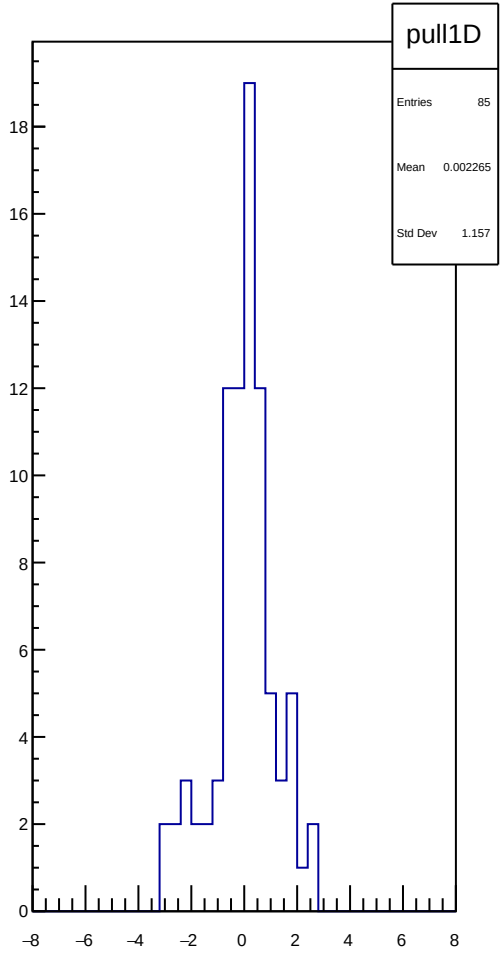

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1412 / 84
p0 59.96 ± 0.04674
66
64
62
60
58
56

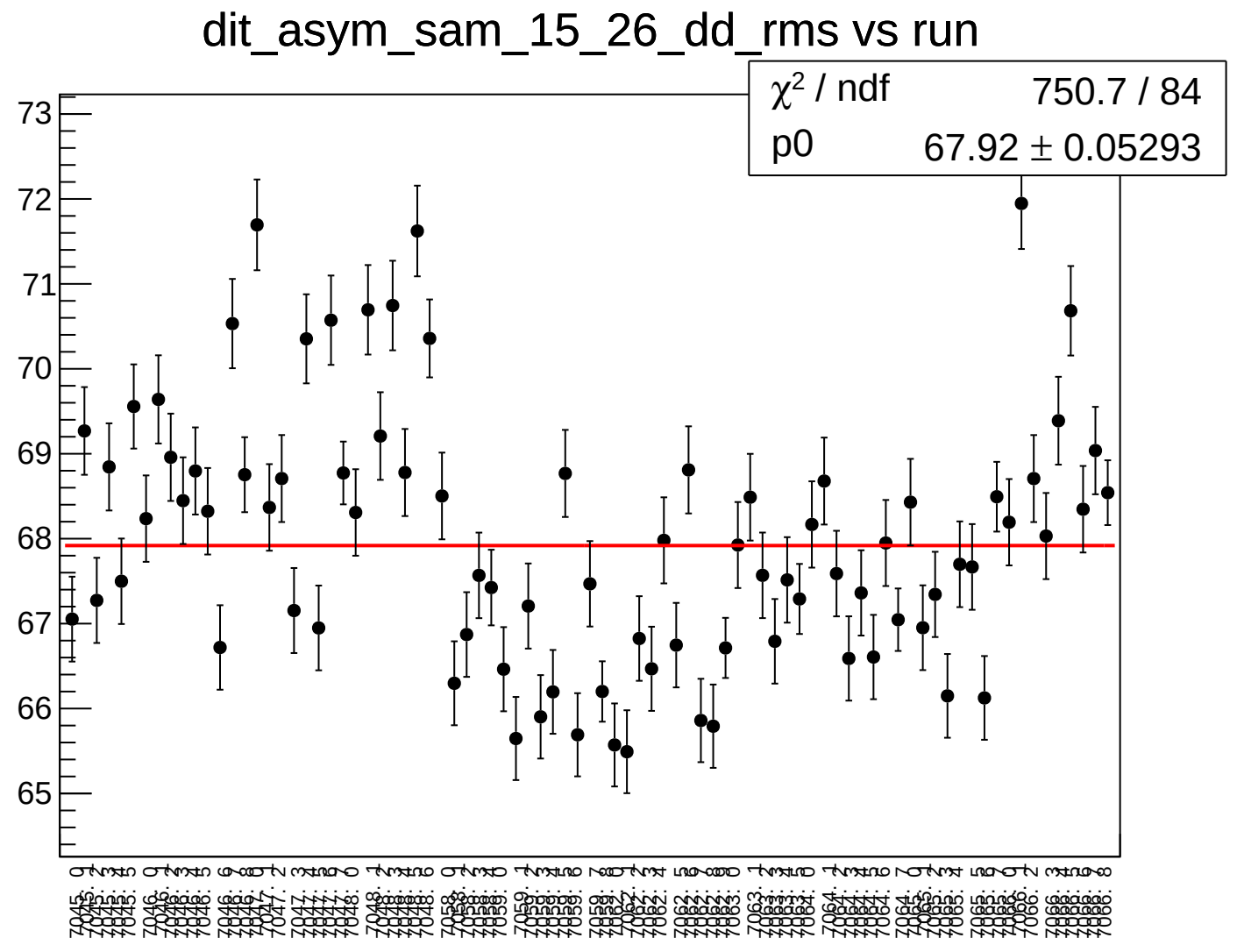

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.81 / 84
p0 −250.2 ± 454
pull
Entries 85
Mean 202.1
Std Dev 0

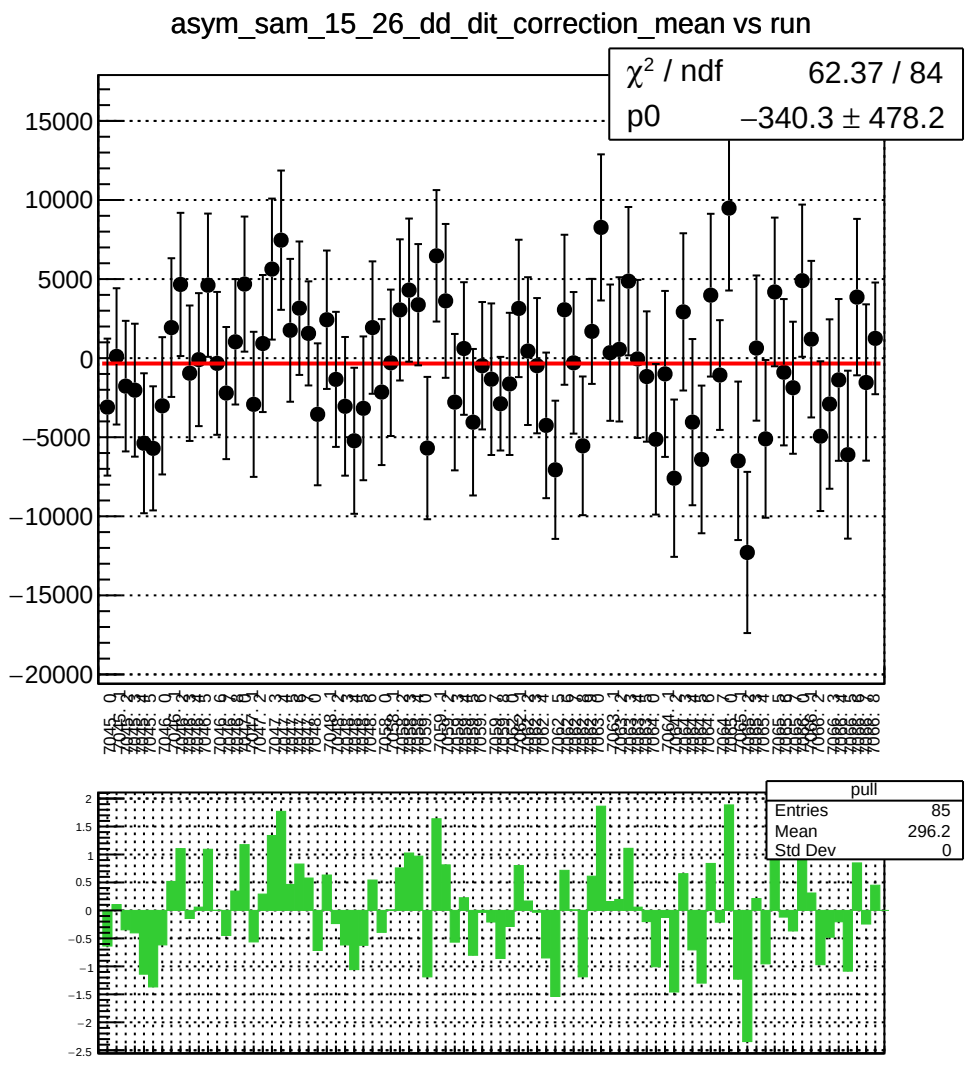

pull1D
Entries 85
Mean −0.009639
Std Dev 0.8596

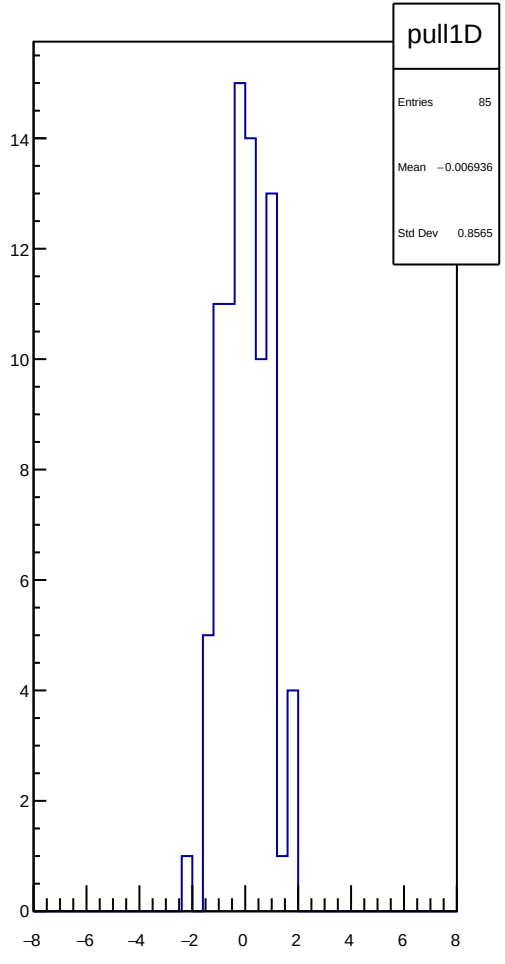

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 84
p0 410.6 ± 0.321
500
480
460
440
420
400
380
360
340

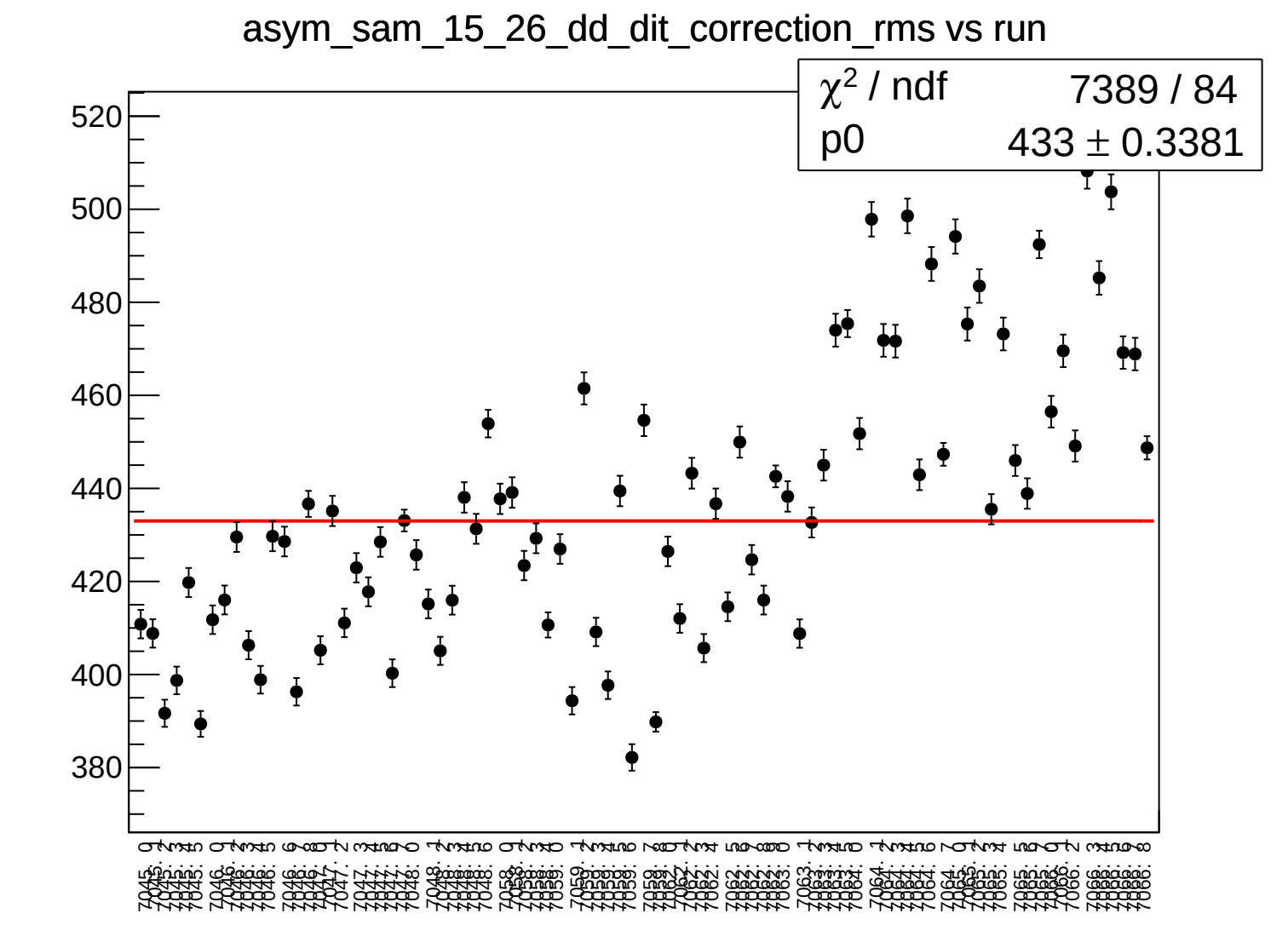

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 113.7 / 84
p0 57.04 ± 74.86
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −53.56
Std Dev 104.2
2
1
0
−1
−2
−3

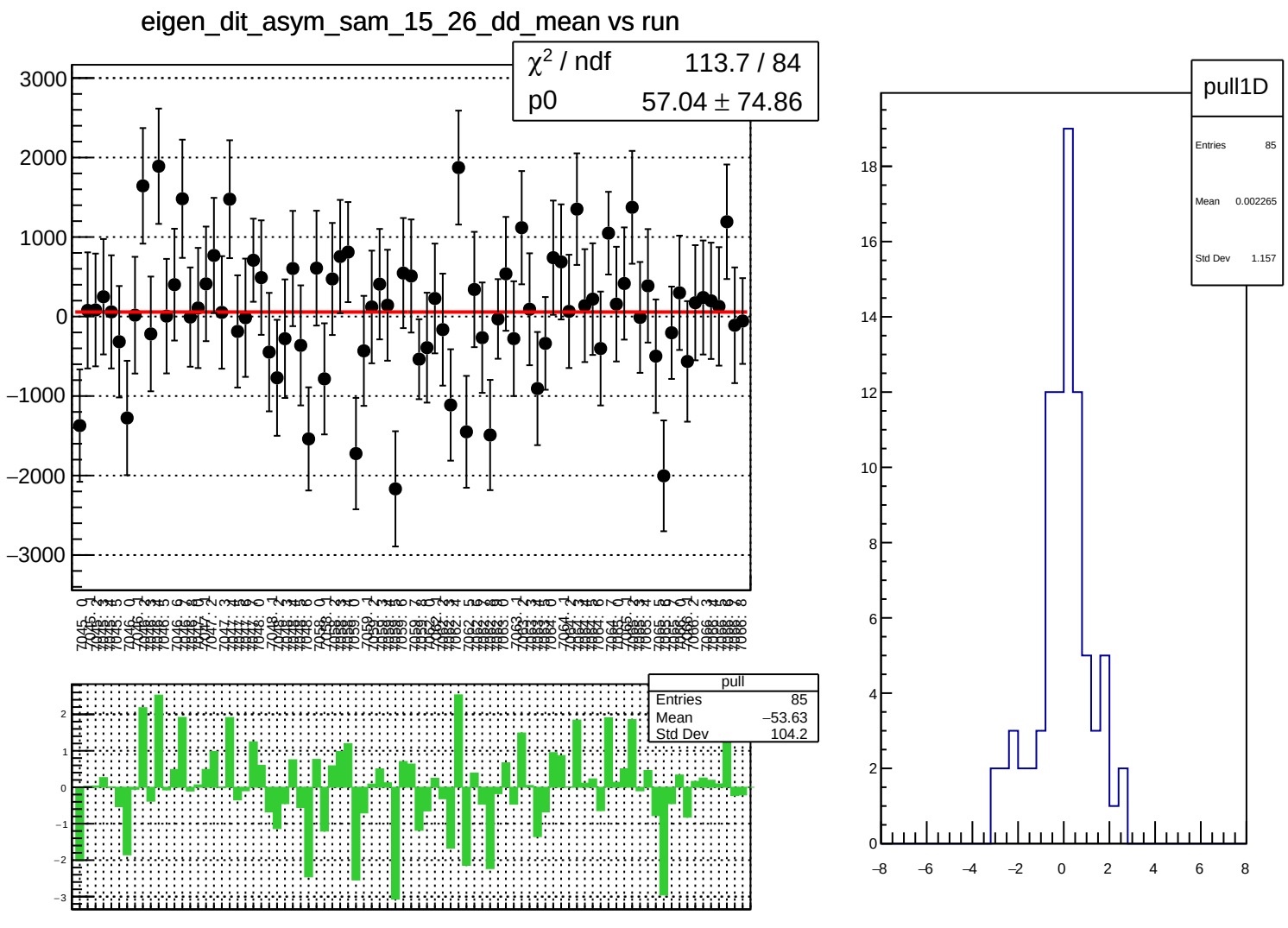

pull1D
Entries 85
Mean 0.002265
Std Dev 1.157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

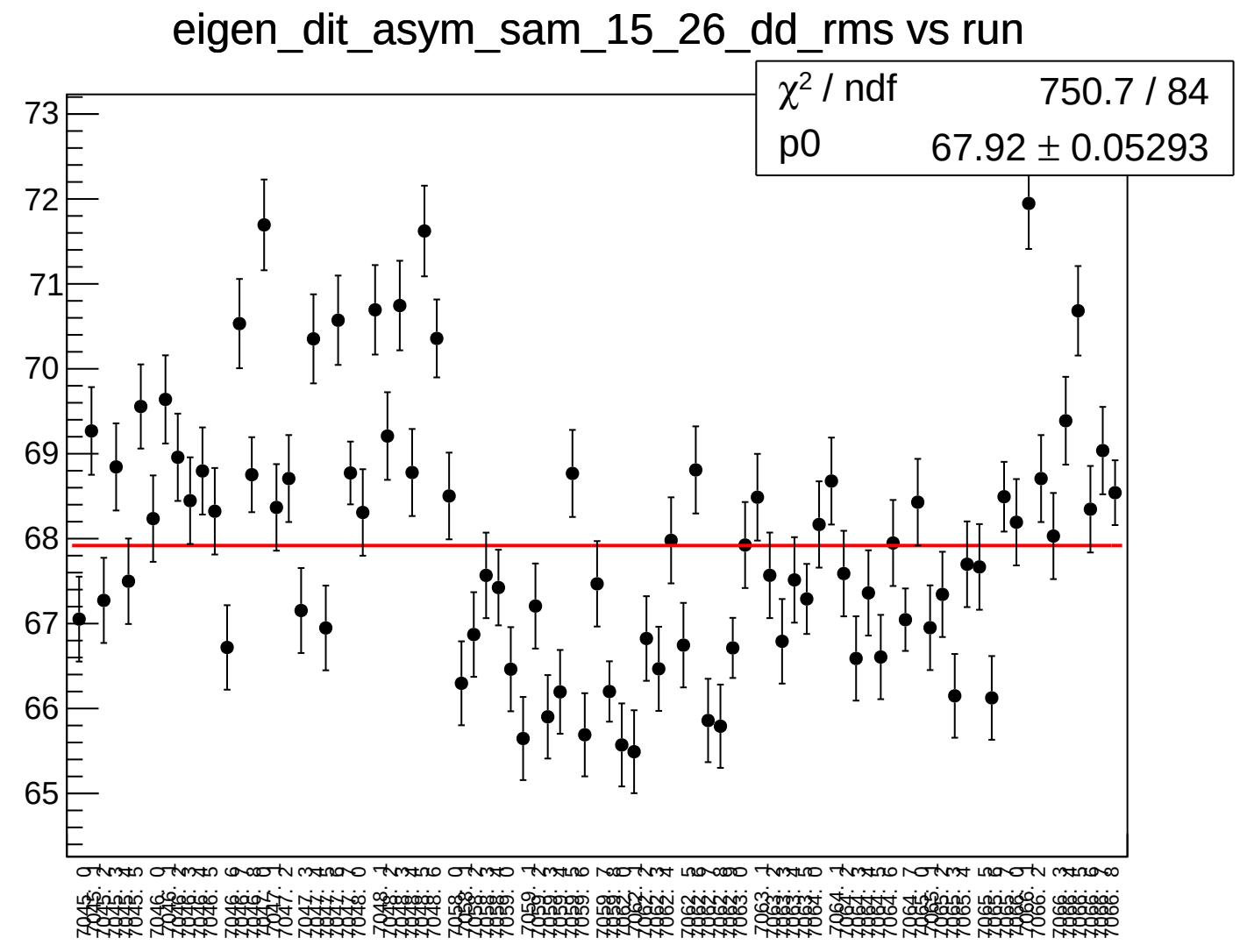

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 750.7 / 84
p0 67.92 ± 0.05293
73
72
71
70
69
68
67
66
65

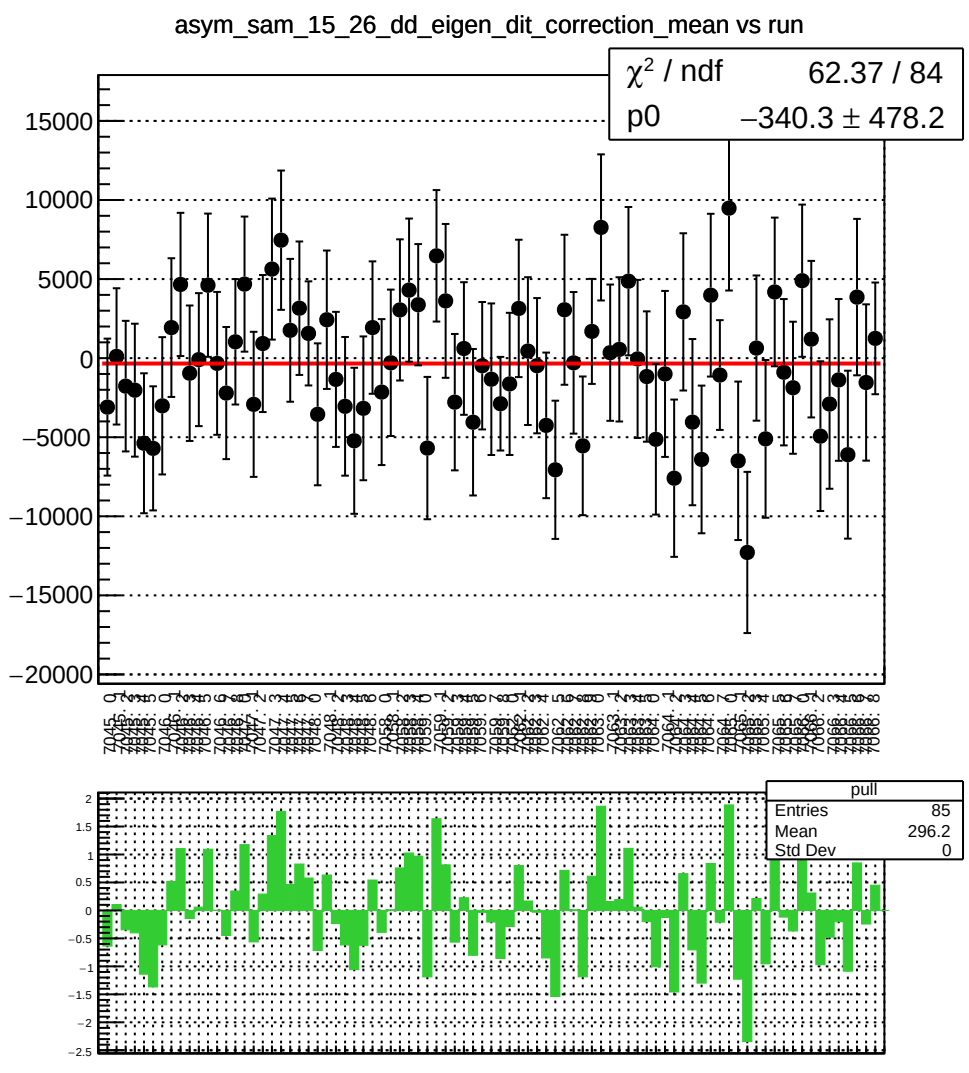

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 62.37 / 84
p0 −340.3 ± 478.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 296.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

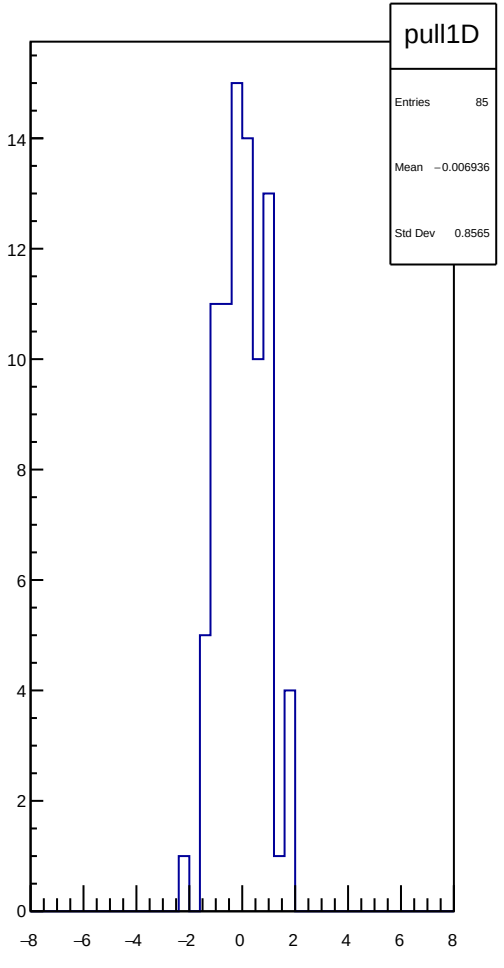

pull1D
Entries 85
Mean −0.006936
Std Dev 0.8565
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

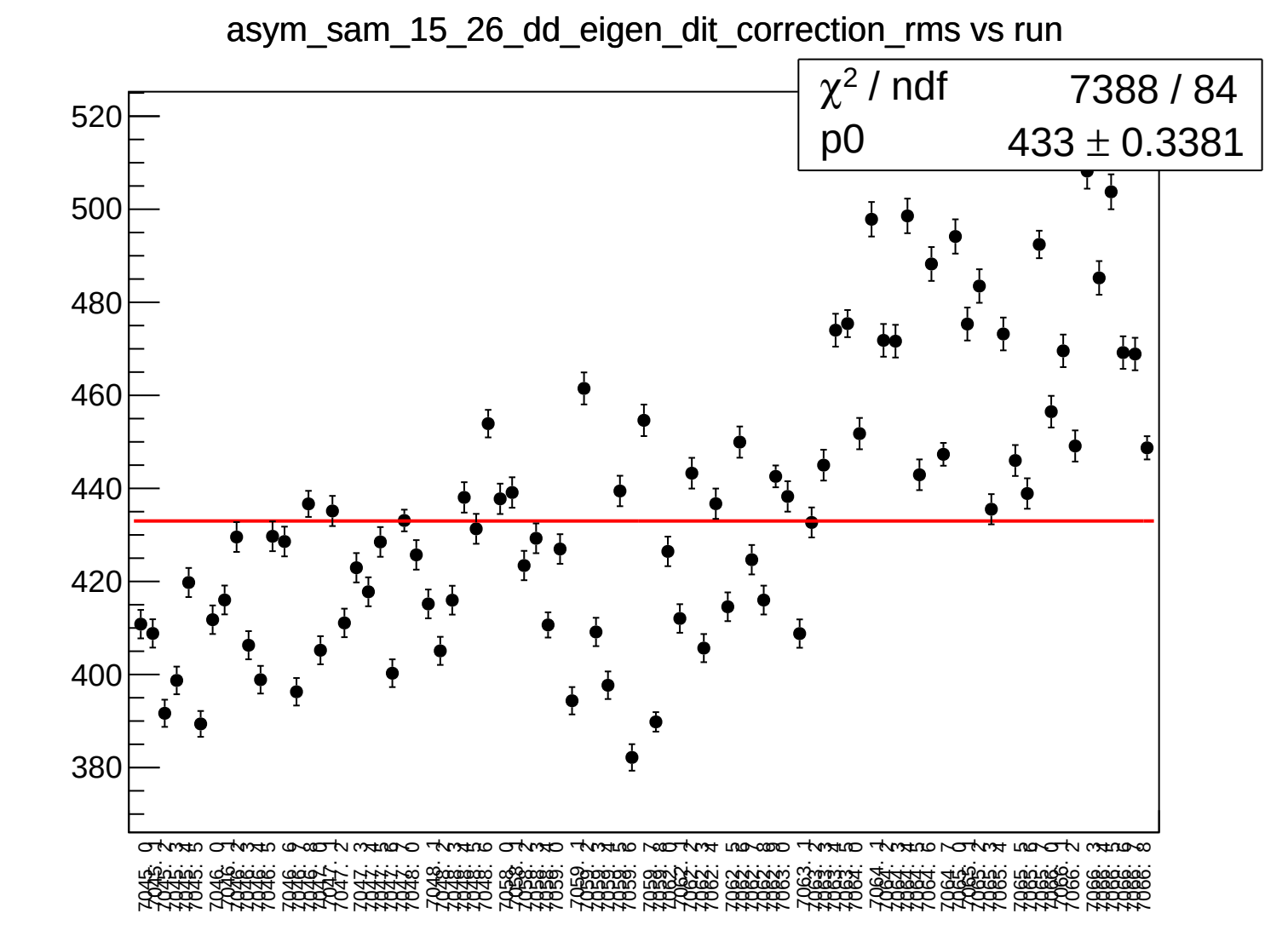

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 7389 / 84
p0 433 ± 0.3381
520
500
480
460
440
420
400
380

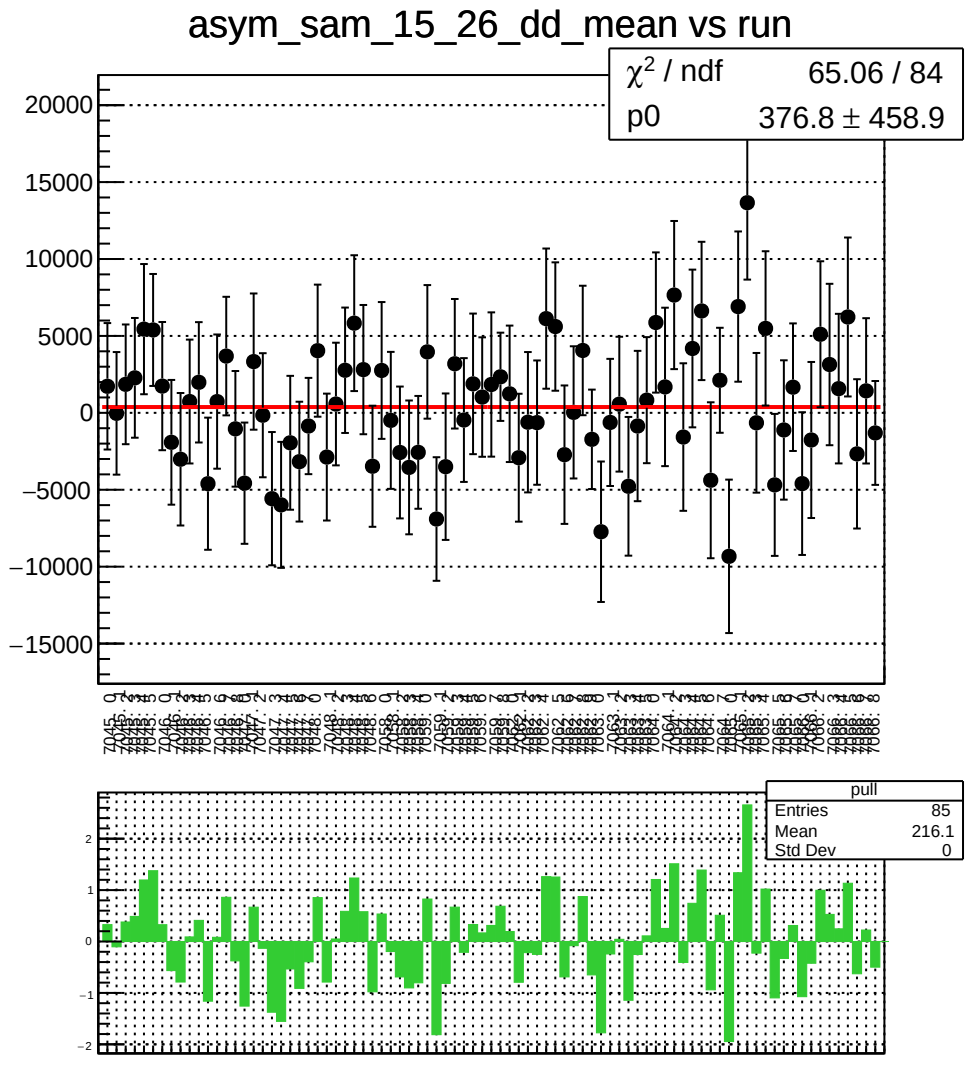

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 113.7 / 84
p0 57.04 ± 74.86
pull
Entries 85
Mean −53.63
Std Dev 104.2
pull1D
Entries 85
Mean 0.002265
Std Dev 1.157

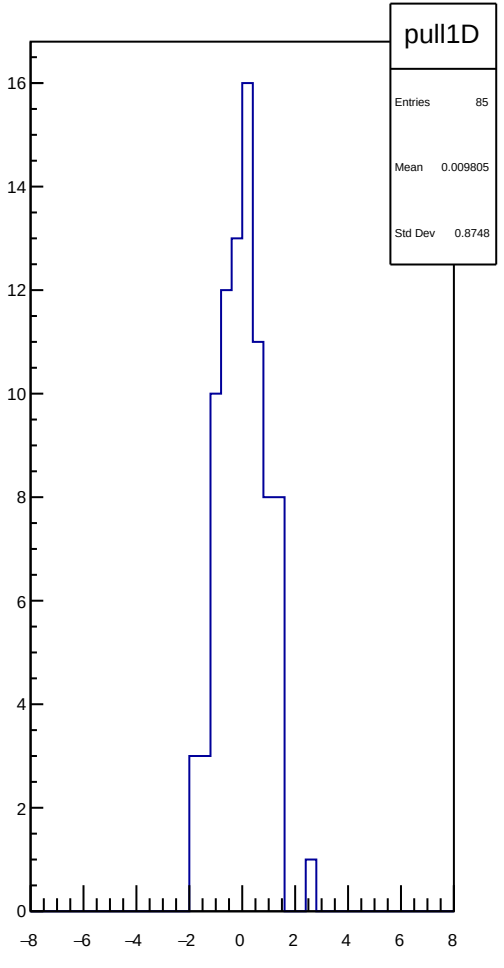

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 750.7 / 84
p0 67.92 ± 0.05293
73
72
71
70
69
68
67
66
65

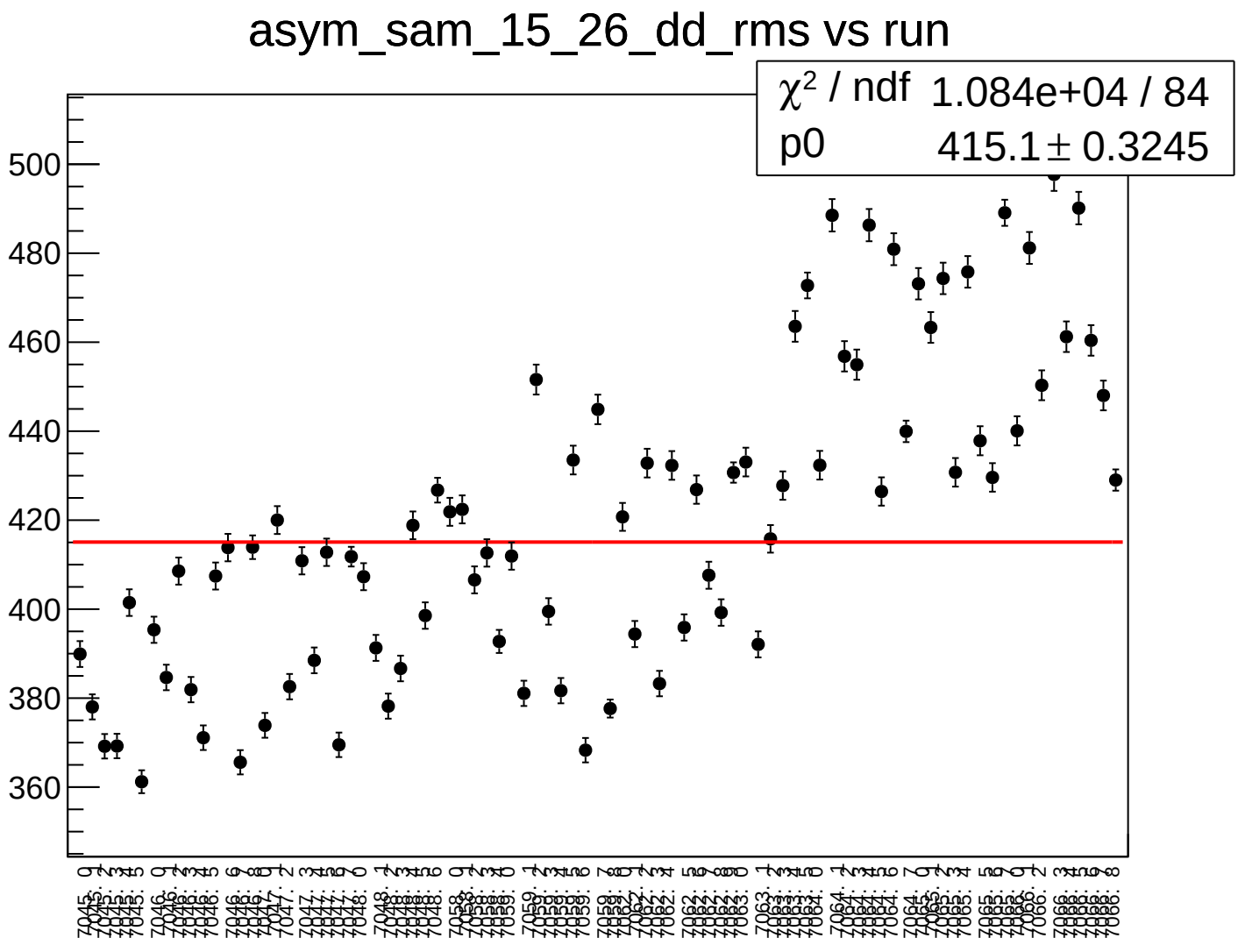

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.37 / 84
p0 −340.3 ± 478.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 296.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

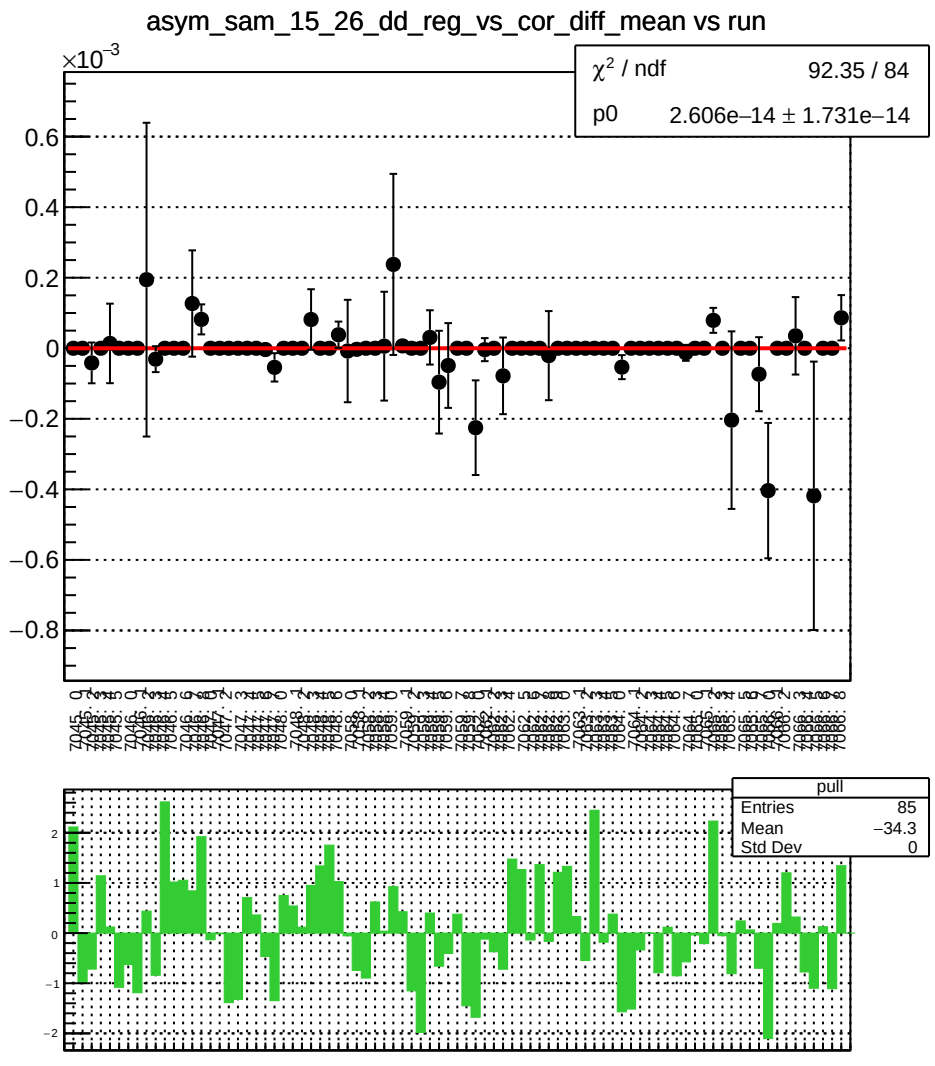

pull1D
Entries 85
Mean −0.006936
Std Dev 0.8565
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

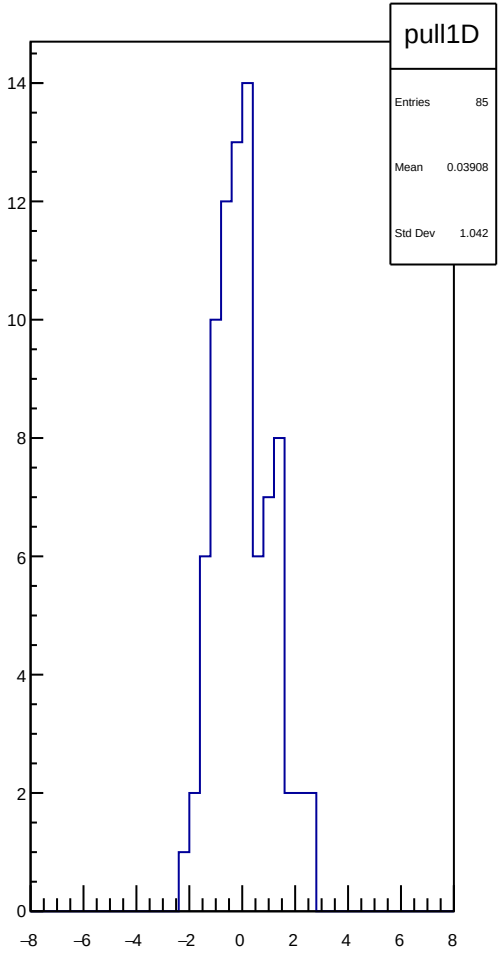

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7388 / 84
p0 433 ± 0.3381
520
500
480
460
440
420
400
380

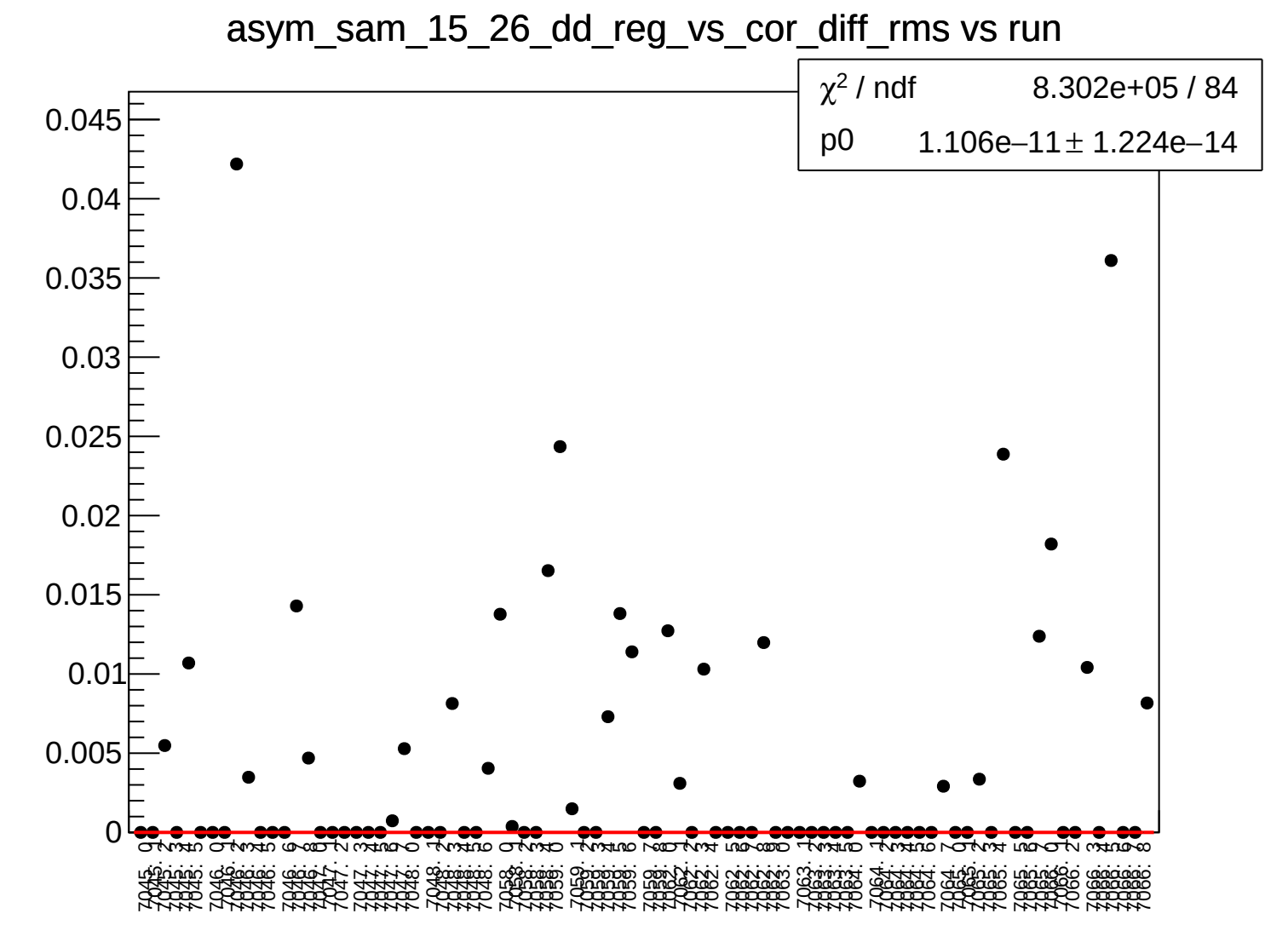

asym_sam_15_26_dd_mean vs run
χ² / ndf 65.06 / 84
p0 376.8 ± 458.9
pull
Entries 85
Mean 216.1
Std Dev 0

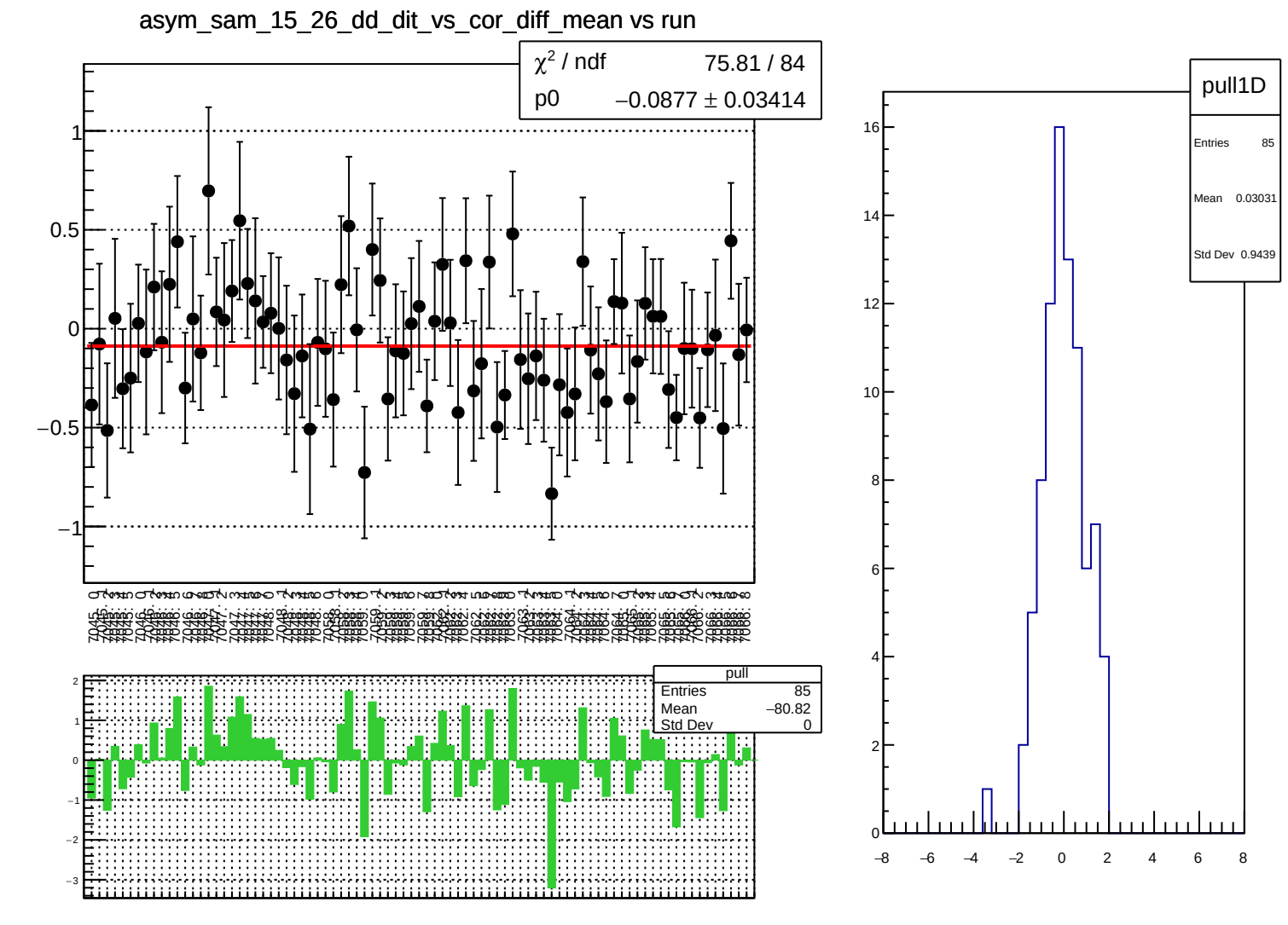

pull1D
Entries 85
Mean 0.009805
Std Dev 0.8748

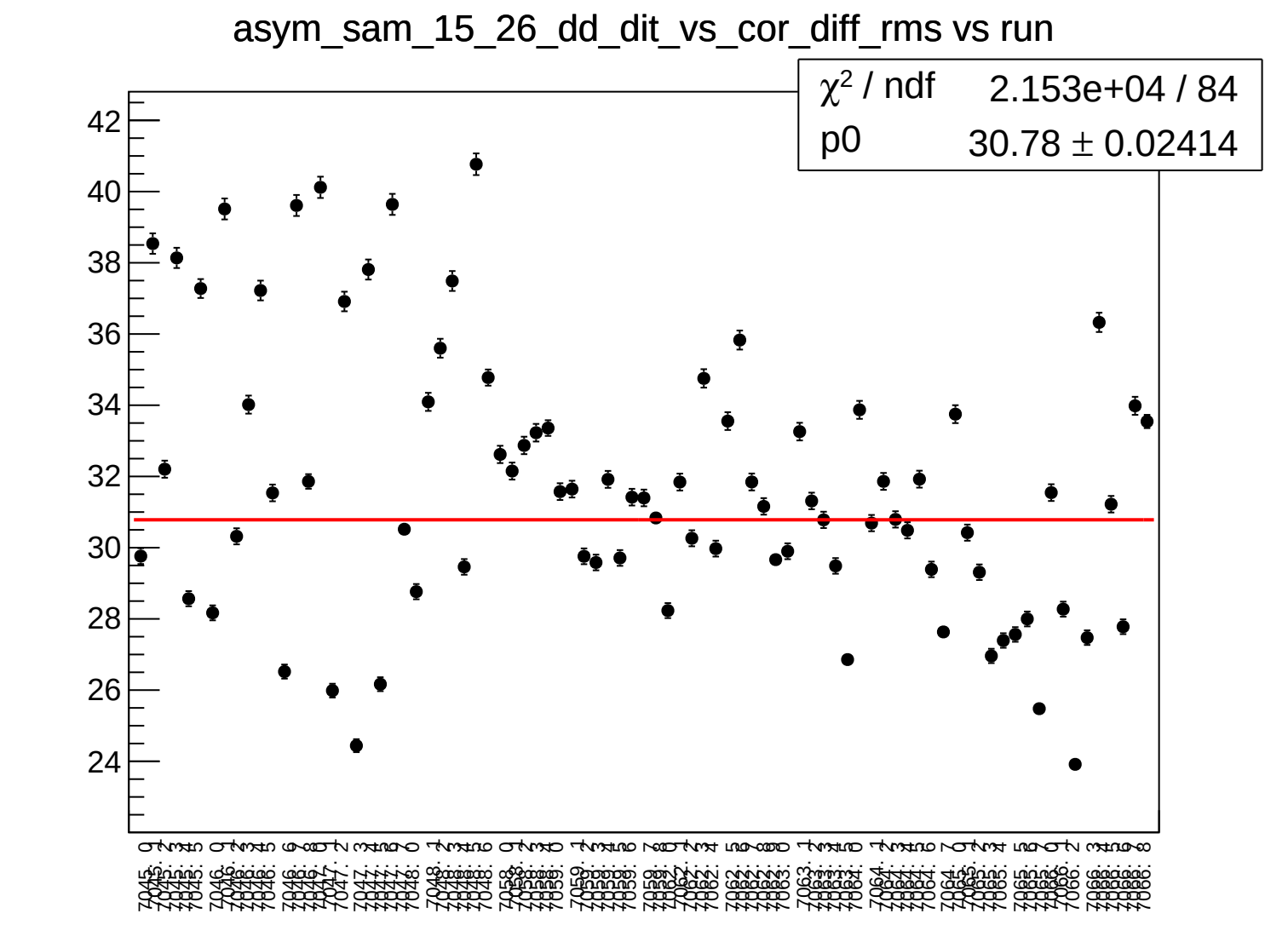

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.084e+04 / 84
p0 415.1 ± 0.3245
500
480
460
440
420
400
380
360

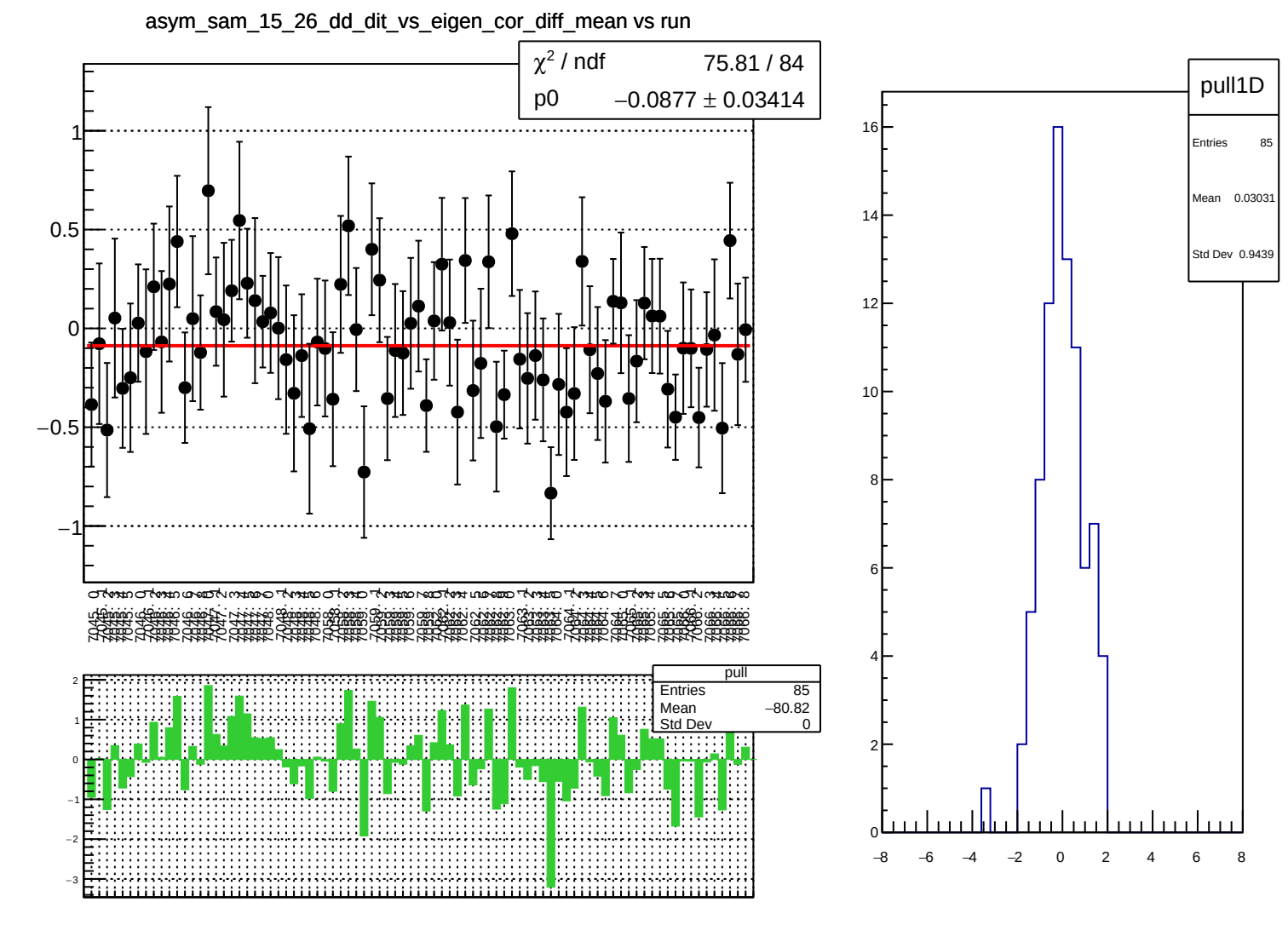

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.35 / 84
p0 2.606e−14 ± 1.731e−14
pull
Entries 85
Mean −34.3
Std Dev 0

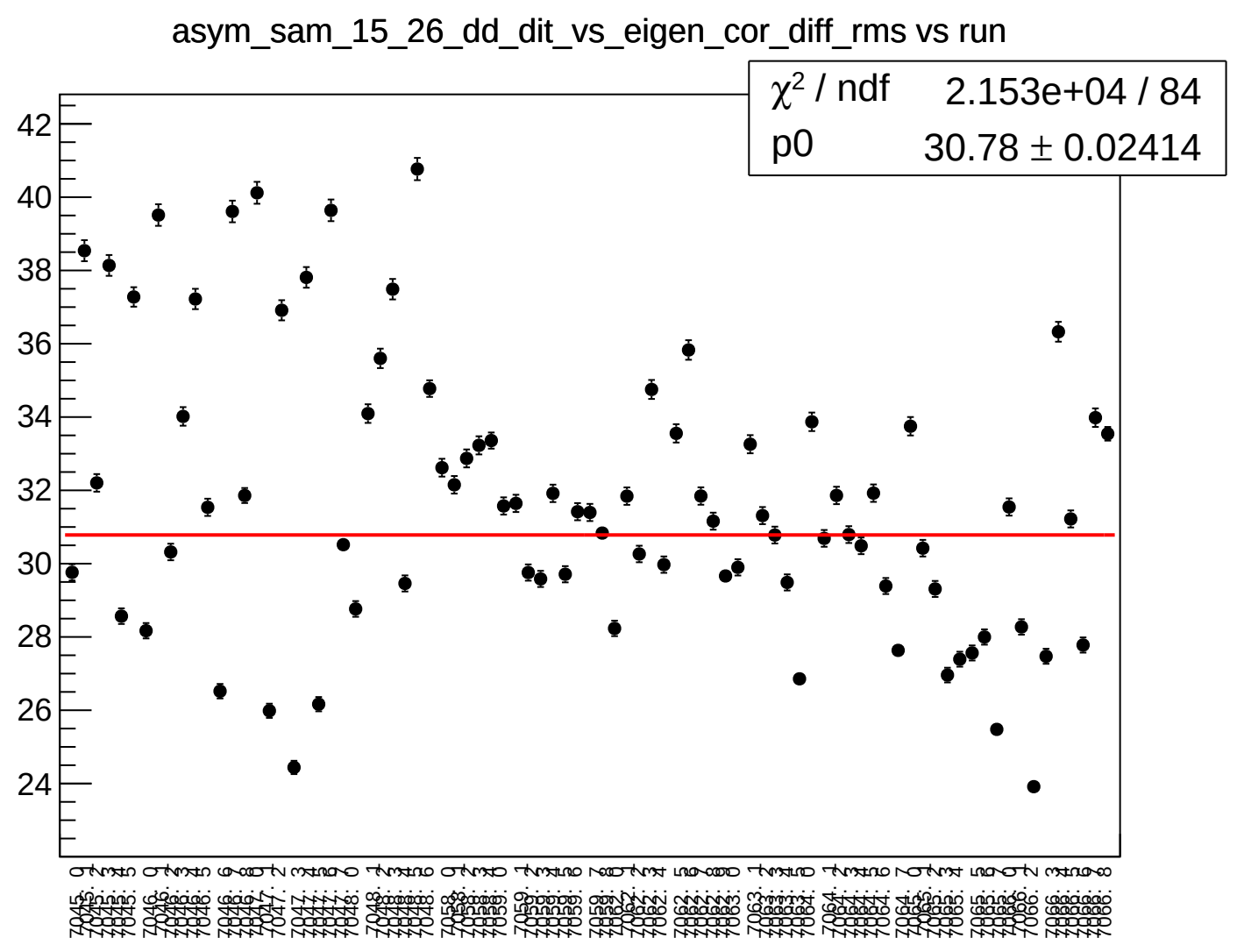

pull1D
Entries 85
Mean 0.03908
Std Dev 1.042

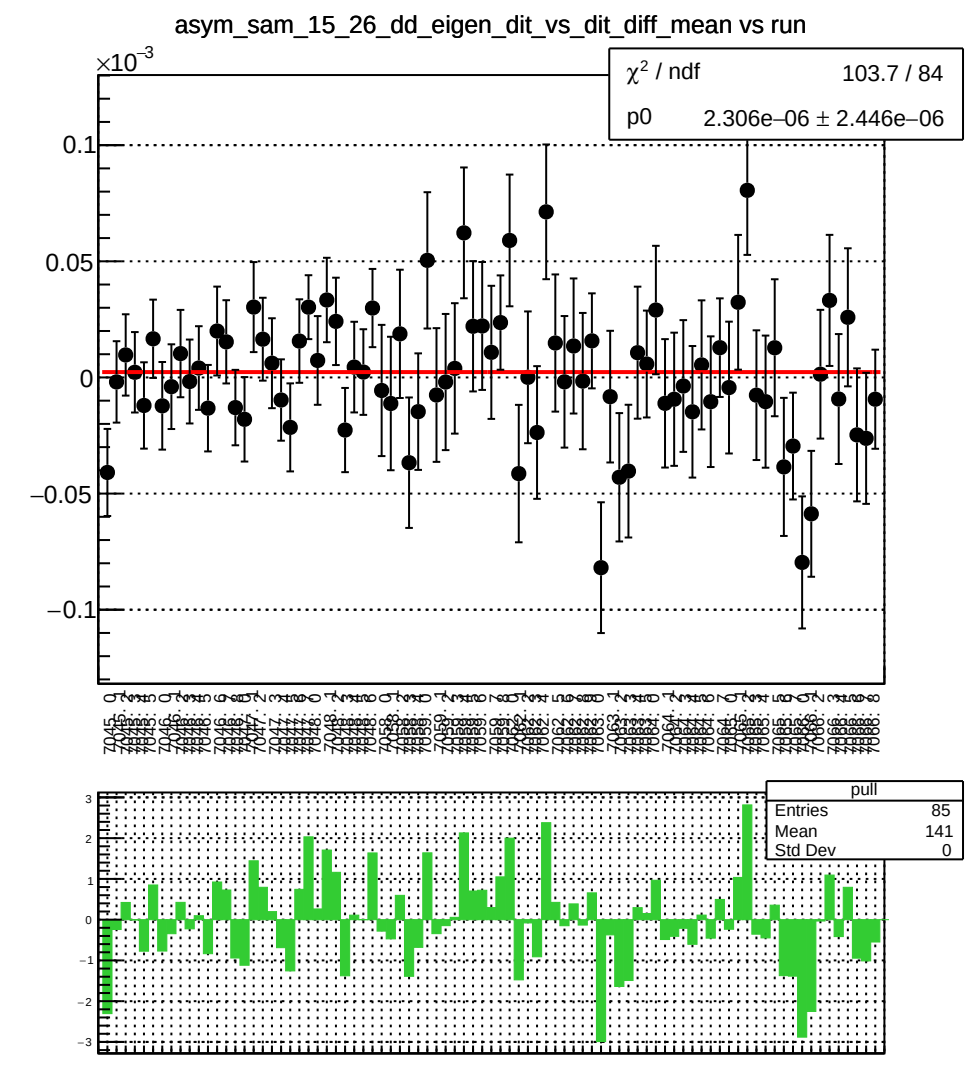

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.302e+05 / 84
p0 1.106e−11 ± 1.224e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

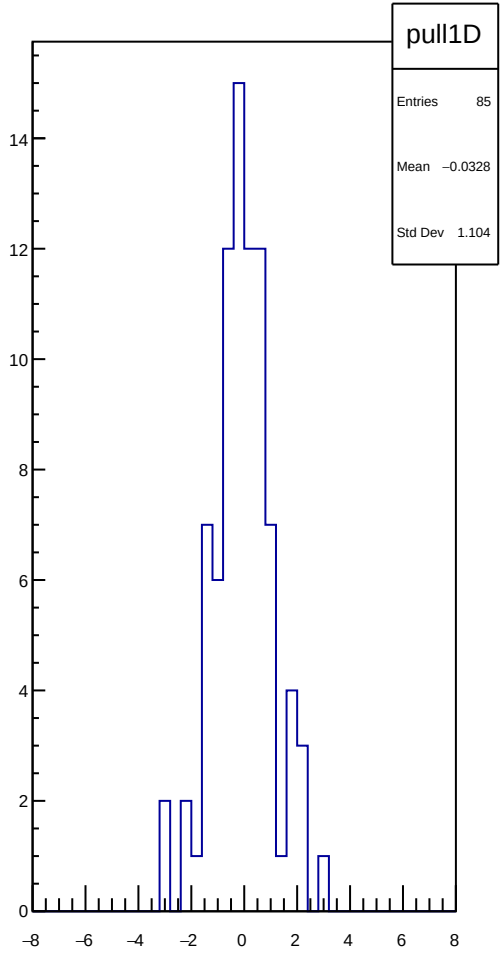

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.81 / 84
p0 −0.0877 ± 0.03414
pull
Entries 85
Mean −80.82
Std Dev 0
pull1D
Entries 85
Mean 0.03031
Std Dev 0.9439

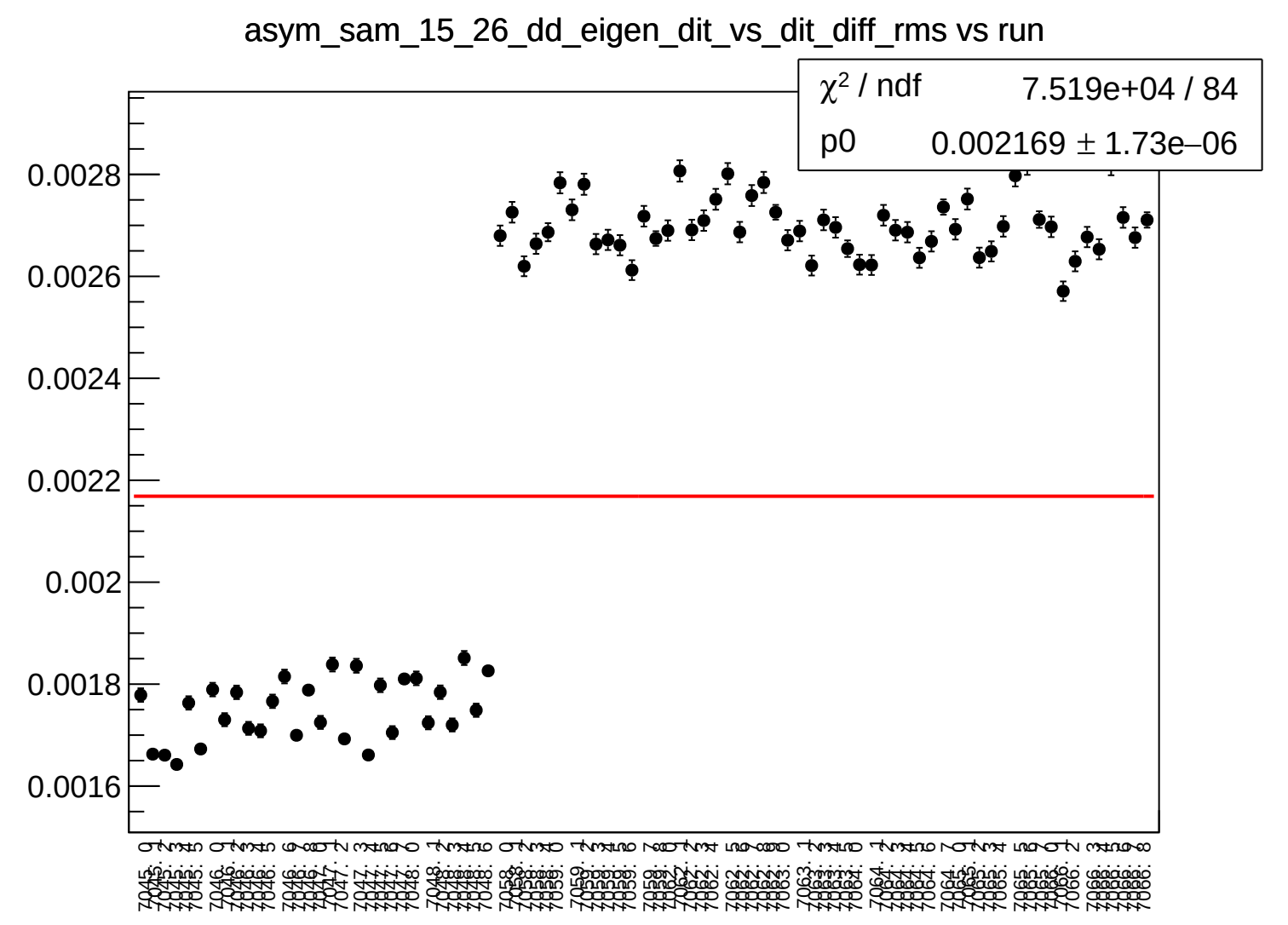

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.153e+04 / 84
p0 30.78 ± 0.02414
42
40
38
36
34
32
30
28
26
24

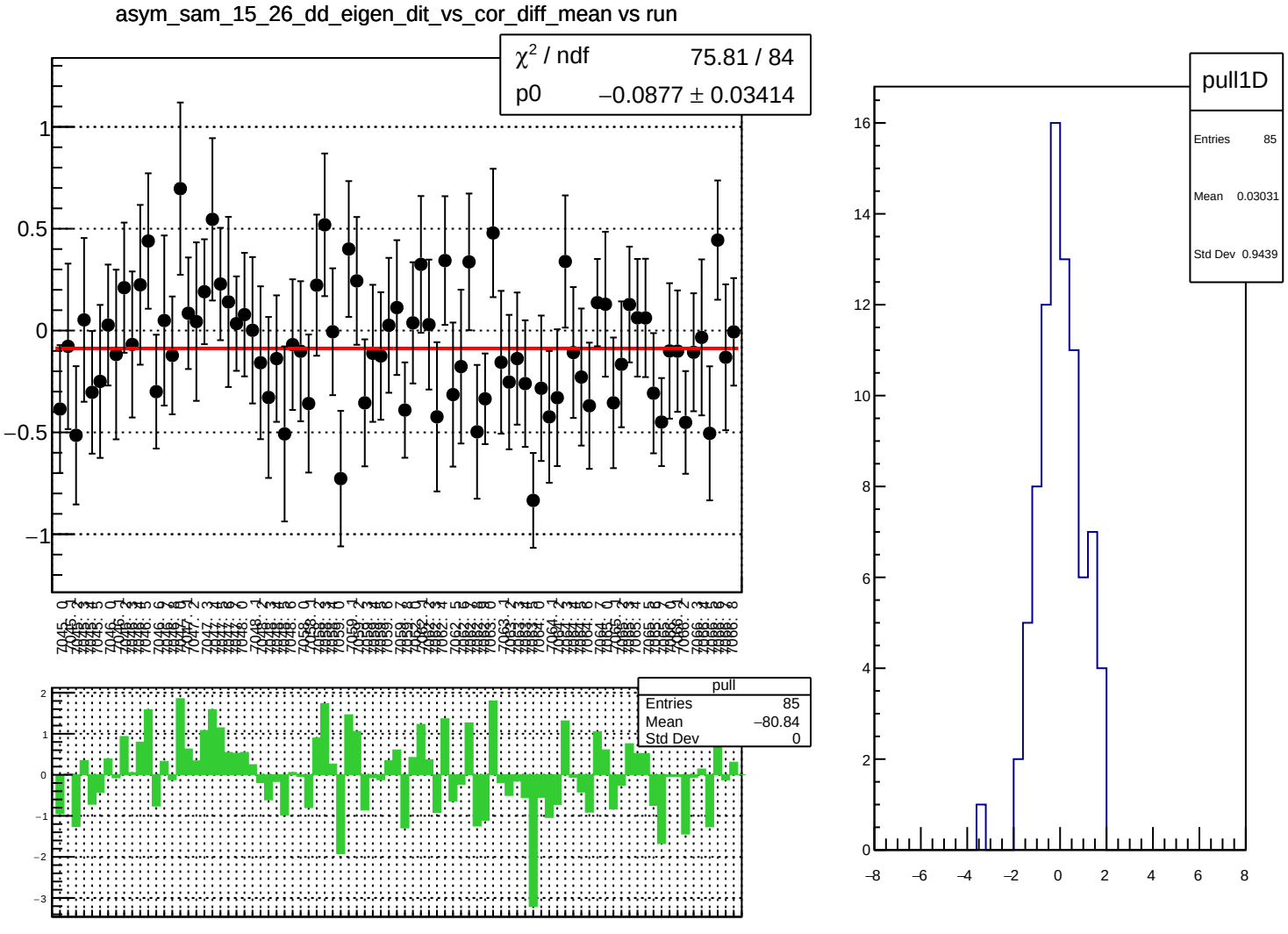

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.81 / 84
p0 −0.0877 ± 0.03414
pull
Entries 85
Mean −80.82
Std Dev 0
pull1D
Entries 85
Mean 0.03031
Std Dev 0.9439

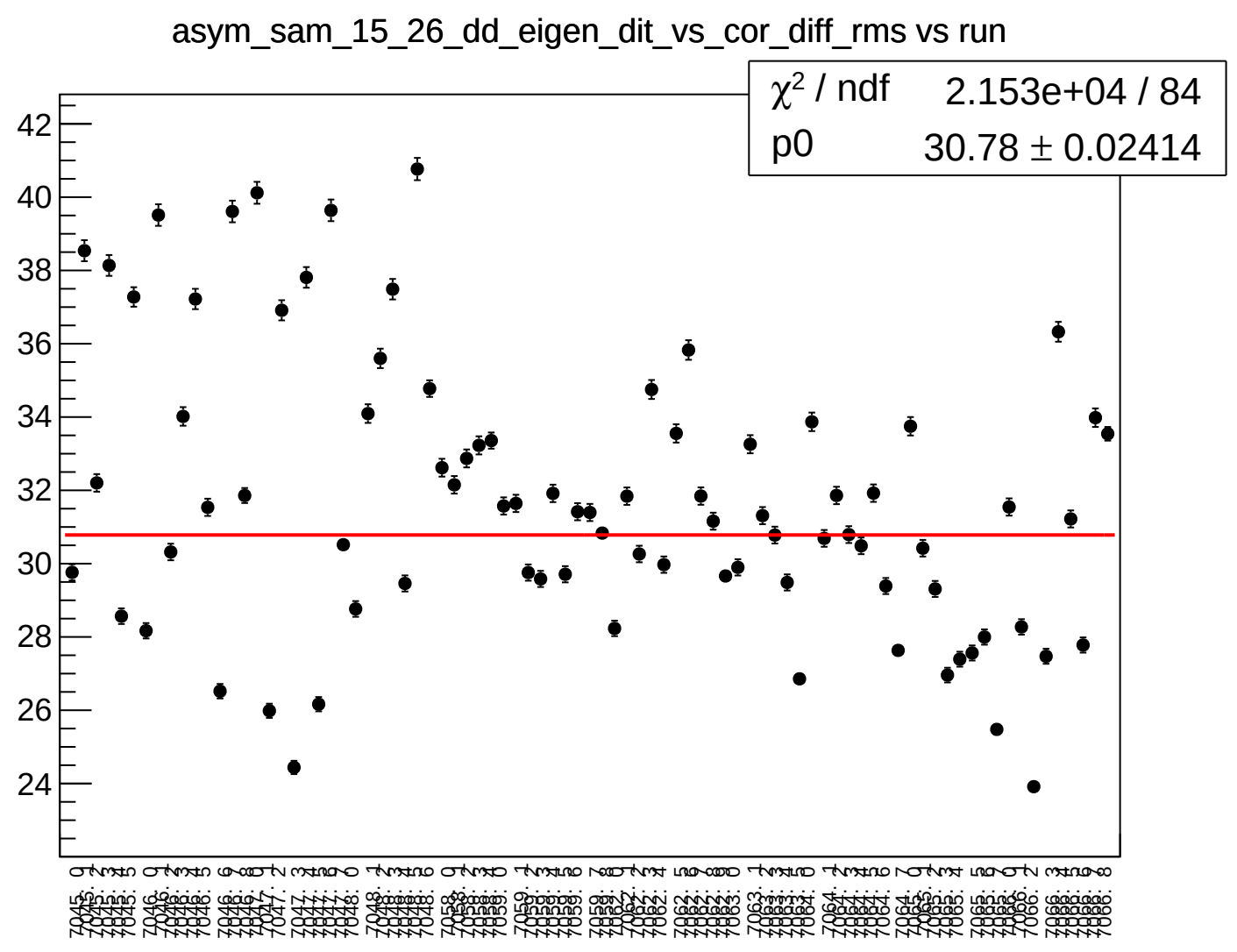

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+04 / 84
p0 30.78 ± 0.02414
42
40
38
36
34
32
30
28
26
24

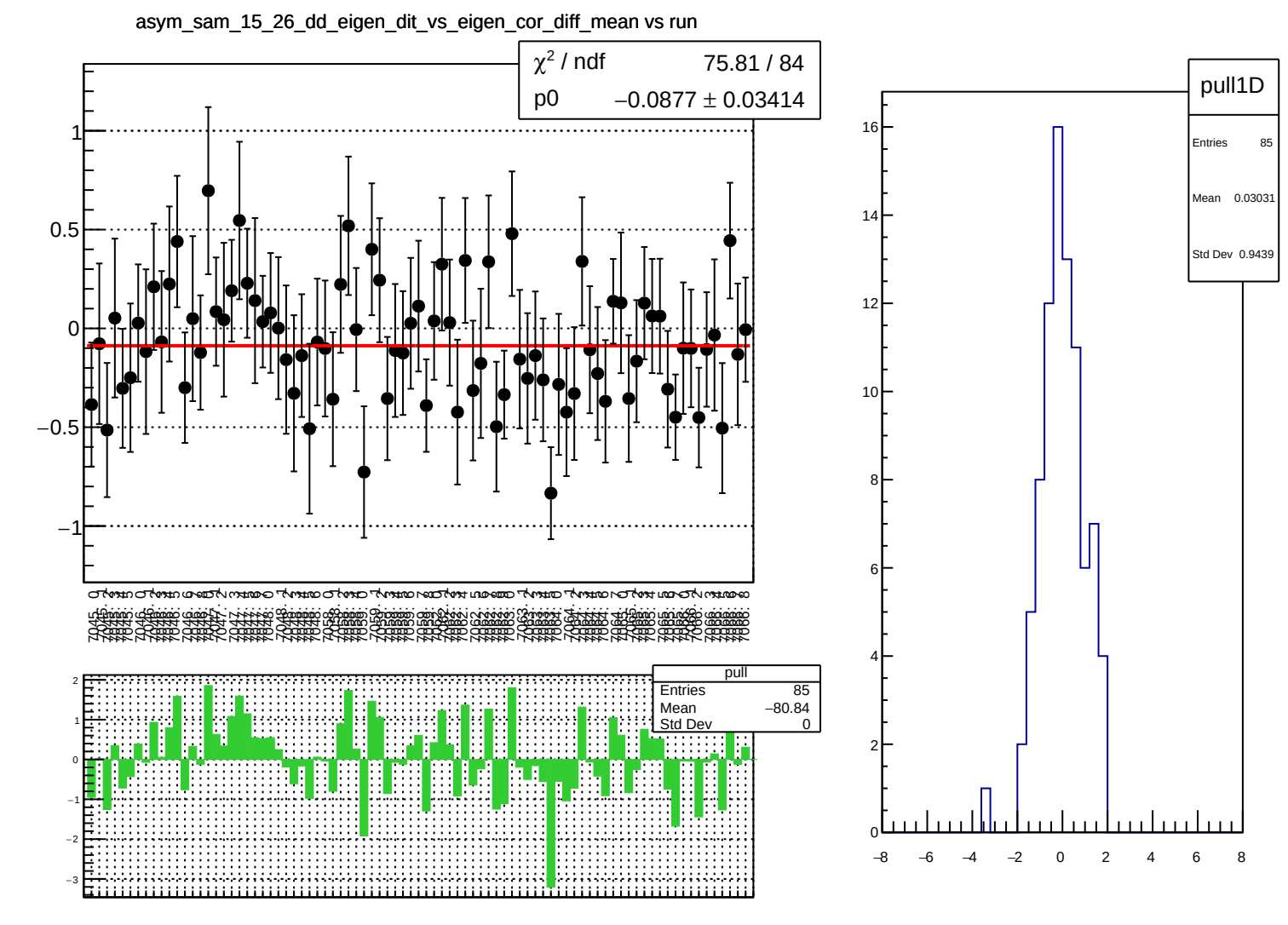

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.7 / 84
p0 2.306e−06 ± 2.446e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 141
Std Dev 0
3
2
1
0
−1
−2
−3

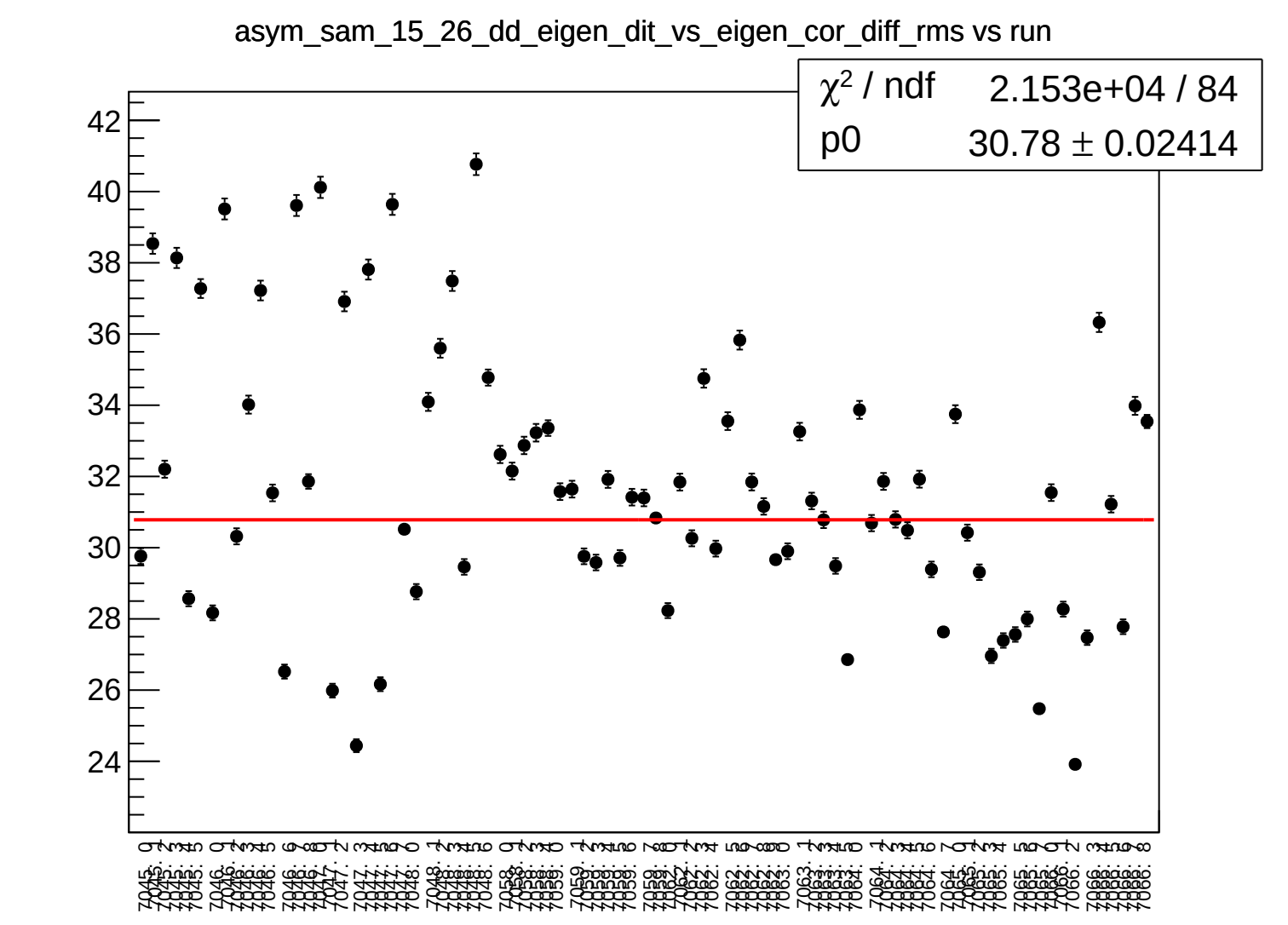

pull1D
Entries 85
Mean −0.0328
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

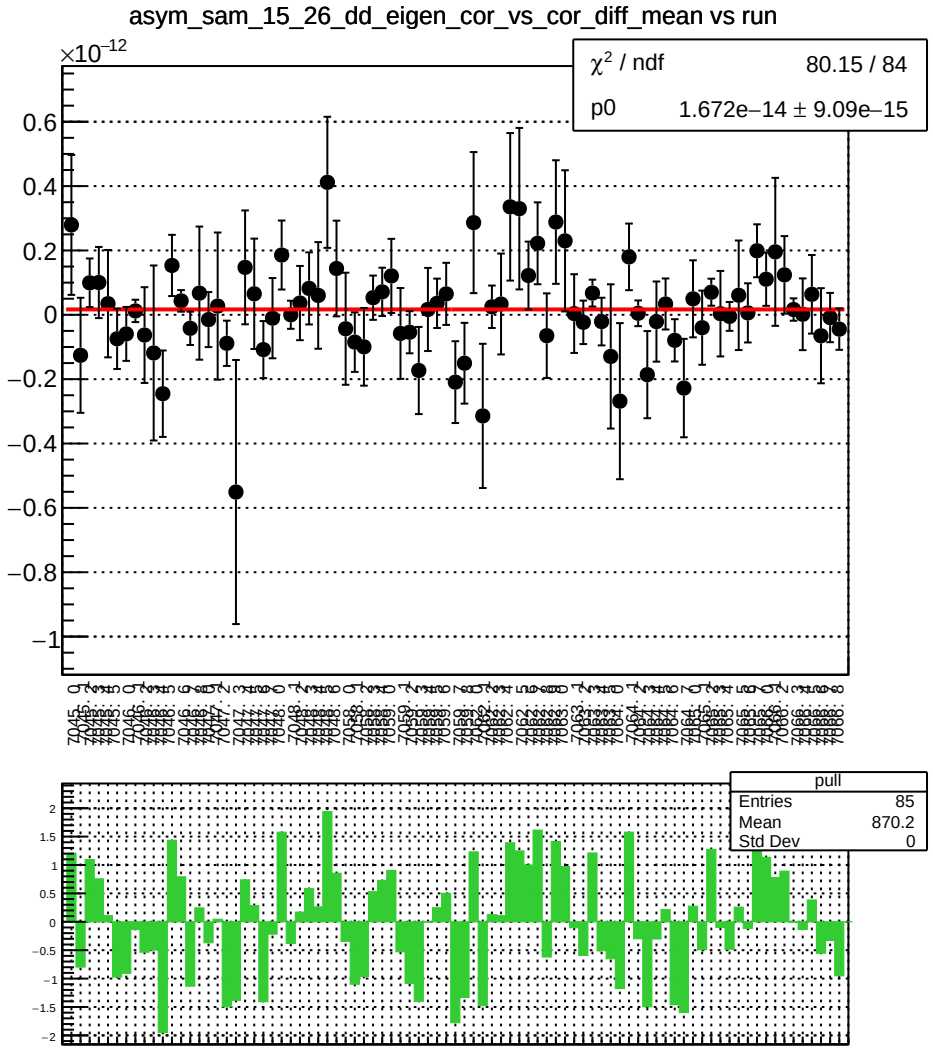

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.519e+04 / 84
p0 0.002169 ± 1.73e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

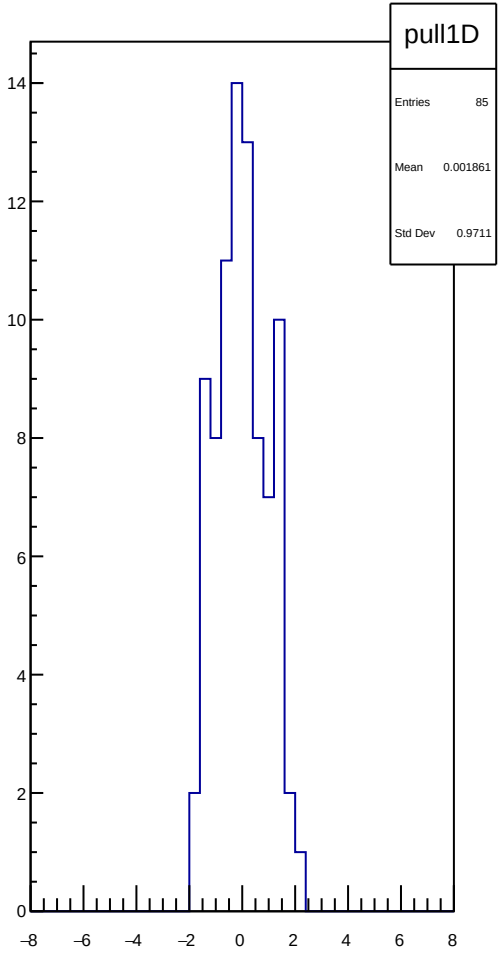

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.81 / 84
p0 −0.0877 ± 0.03414
pull
Entries 85
Mean −80.84
Std Dev 0
pull1D
Entries 85
Mean 0.03031
Std Dev 0.9439

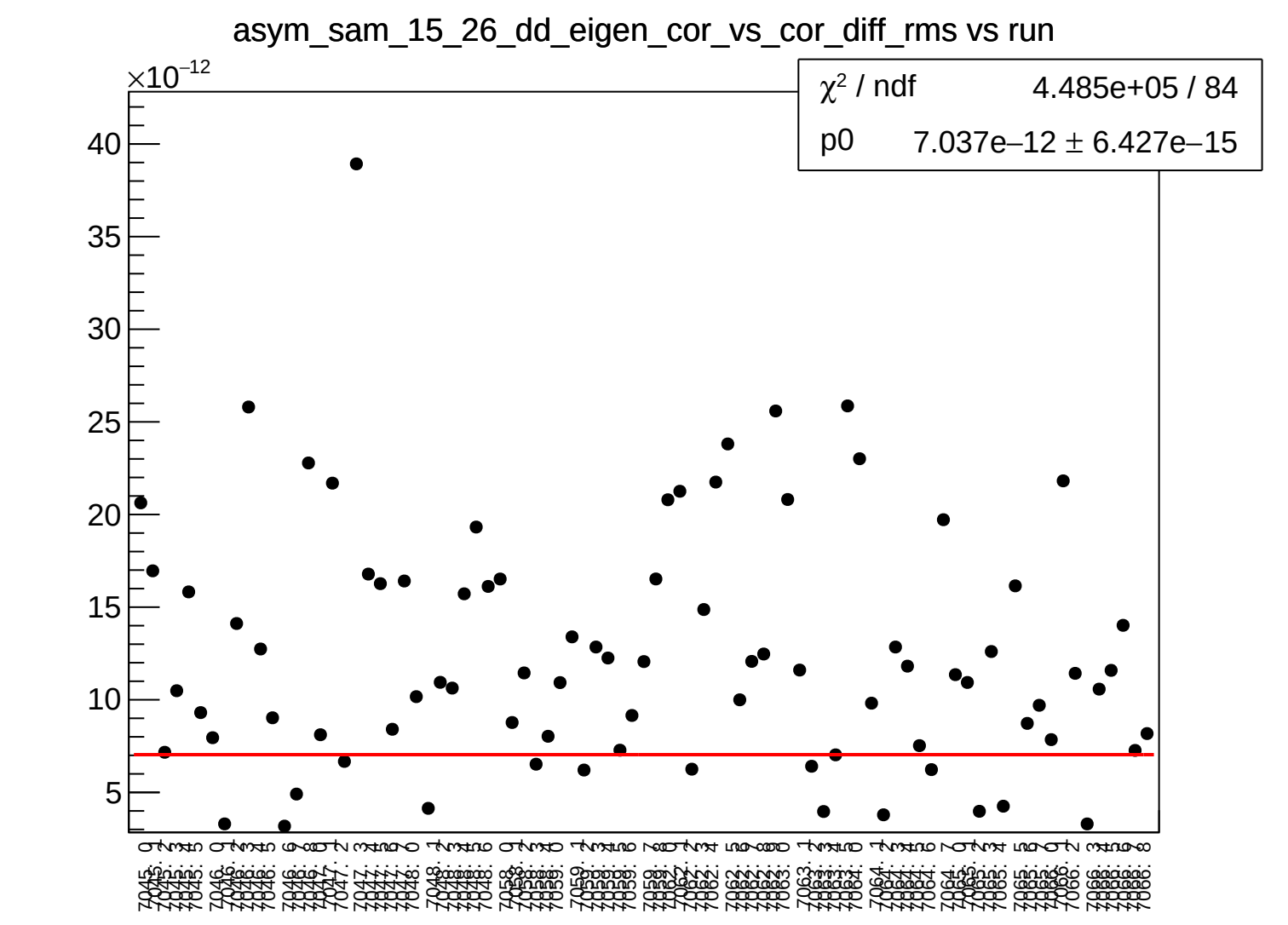

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.153e+04 / 84
p0 30.78 ± 0.02414
42
40
38
36
34
32
30
28
26
24

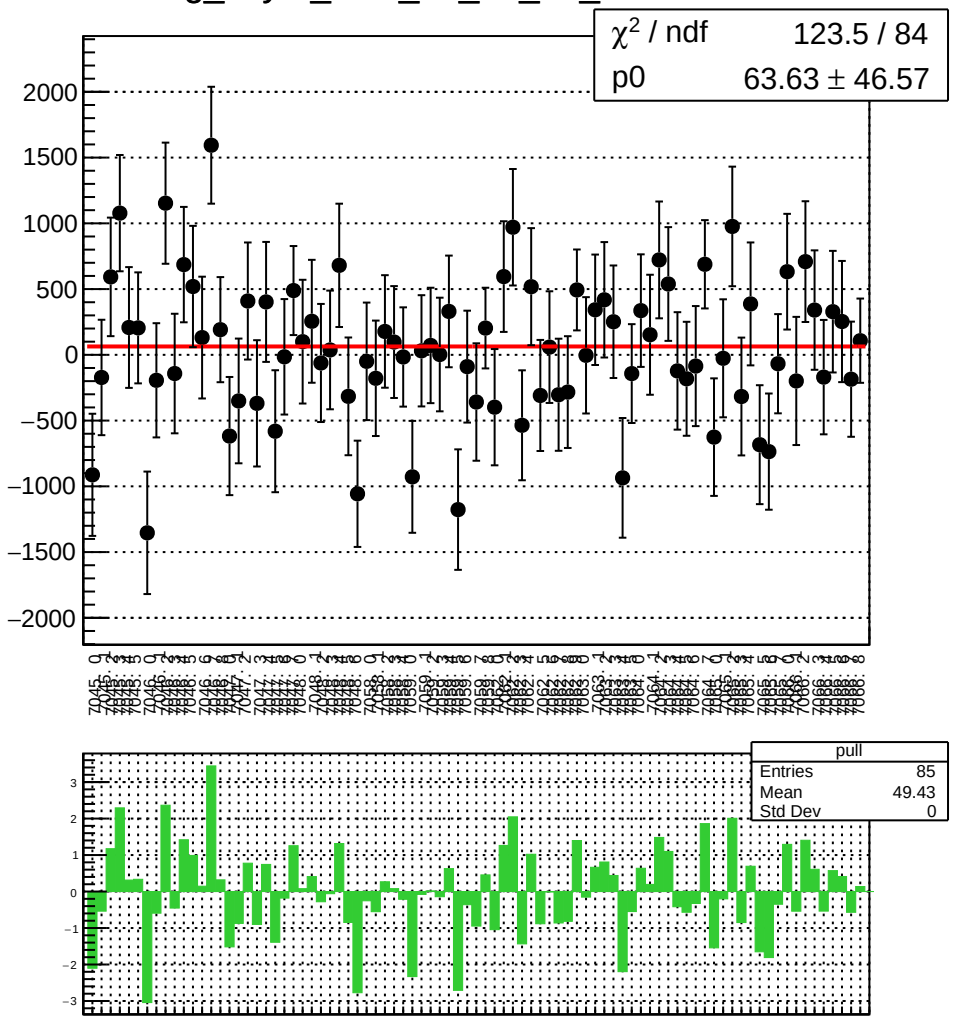

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.81 / 84
p0 −0.0877 ± 0.03414
pull
Entries 85
Mean −80.84
Std Dev 0
pull1D
Entries 85
Mean 0.03031
Std Dev 0.9439

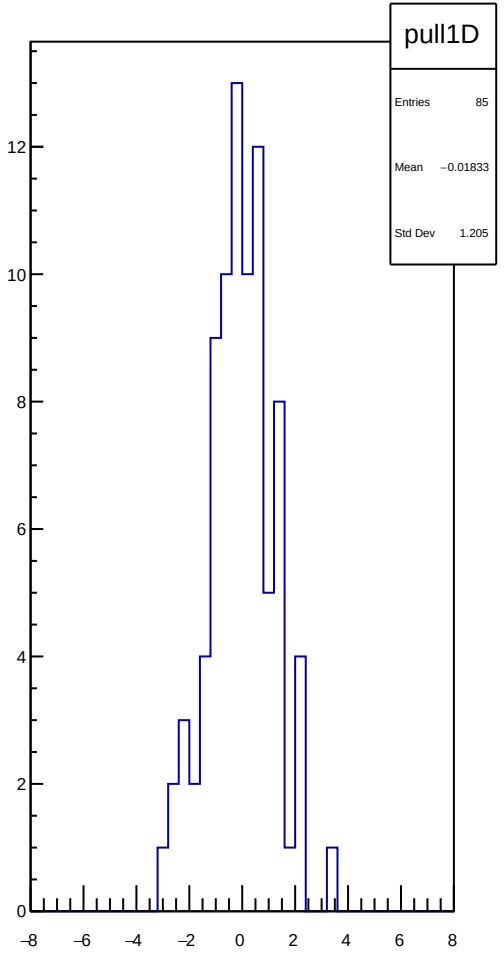

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+04 / 84
p0 30.78 ± 0.02414
42
40
38
36
34
32
30
28
26
24

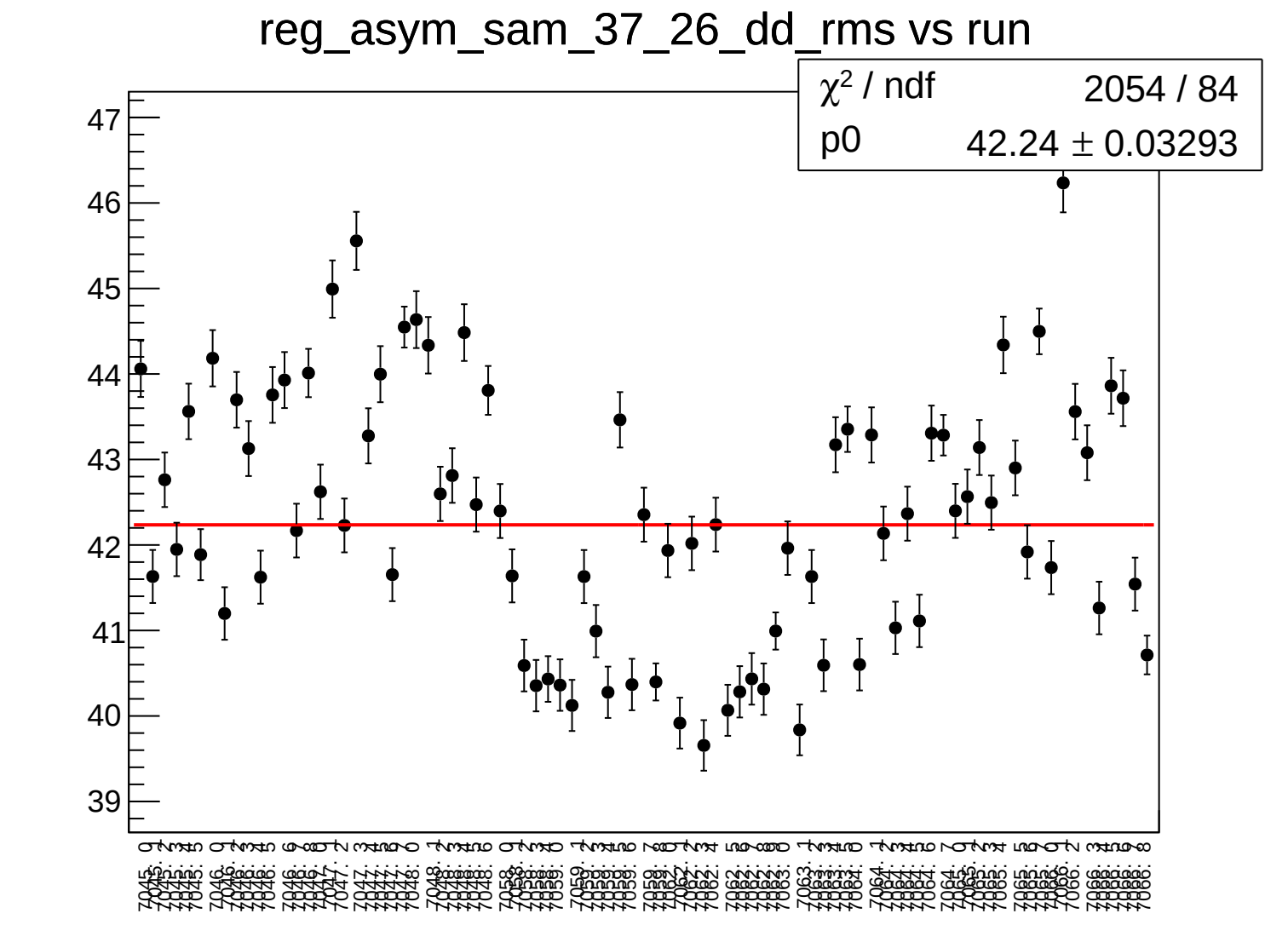

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.15 / 84
p0 1.672e−14 ± 9.09e−15
pull
Entries 85
Mean 870.2
Std Dev 0

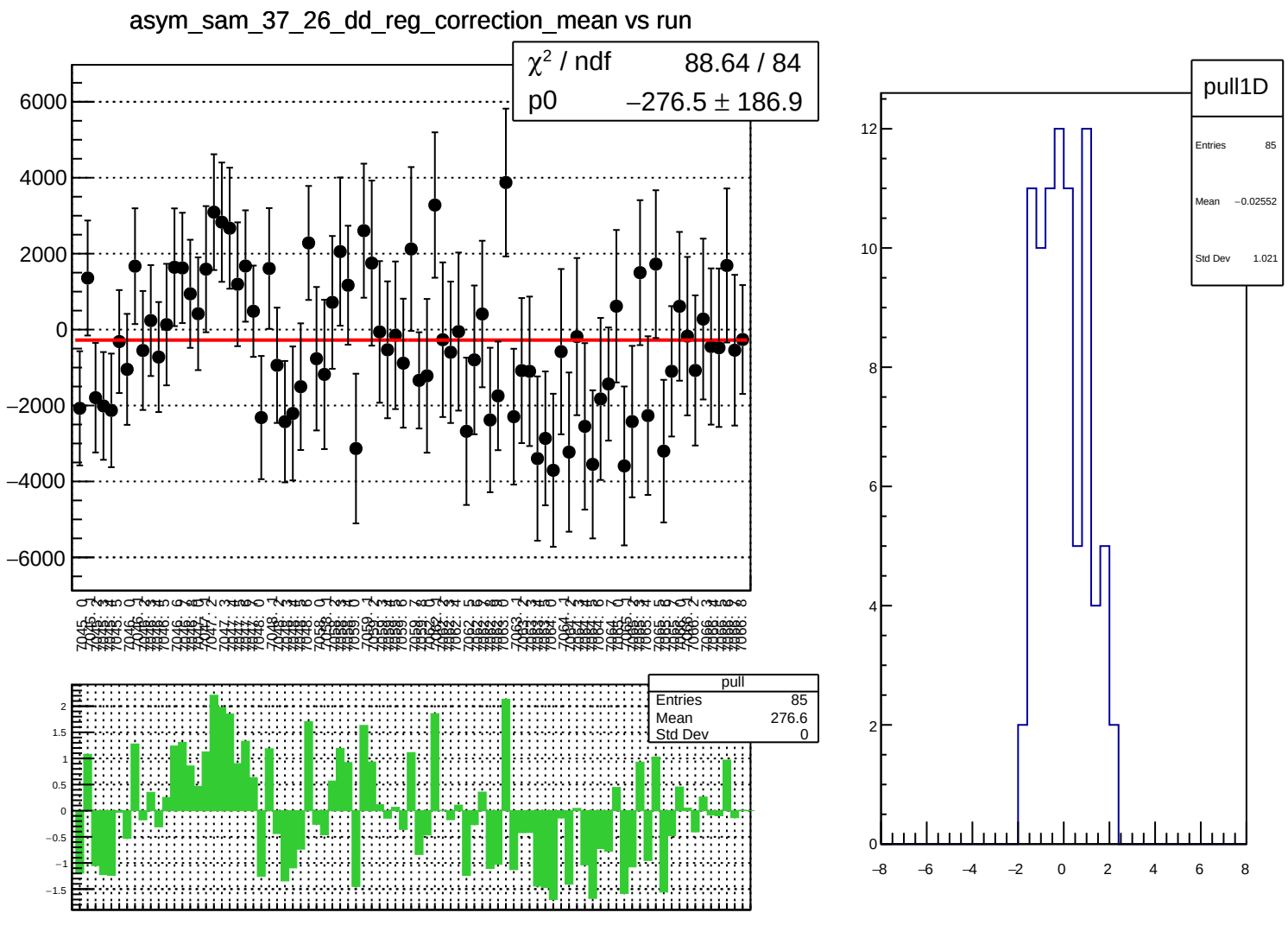

pull1D
Entries 85
Mean 0.001861
Std Dev 0.9711

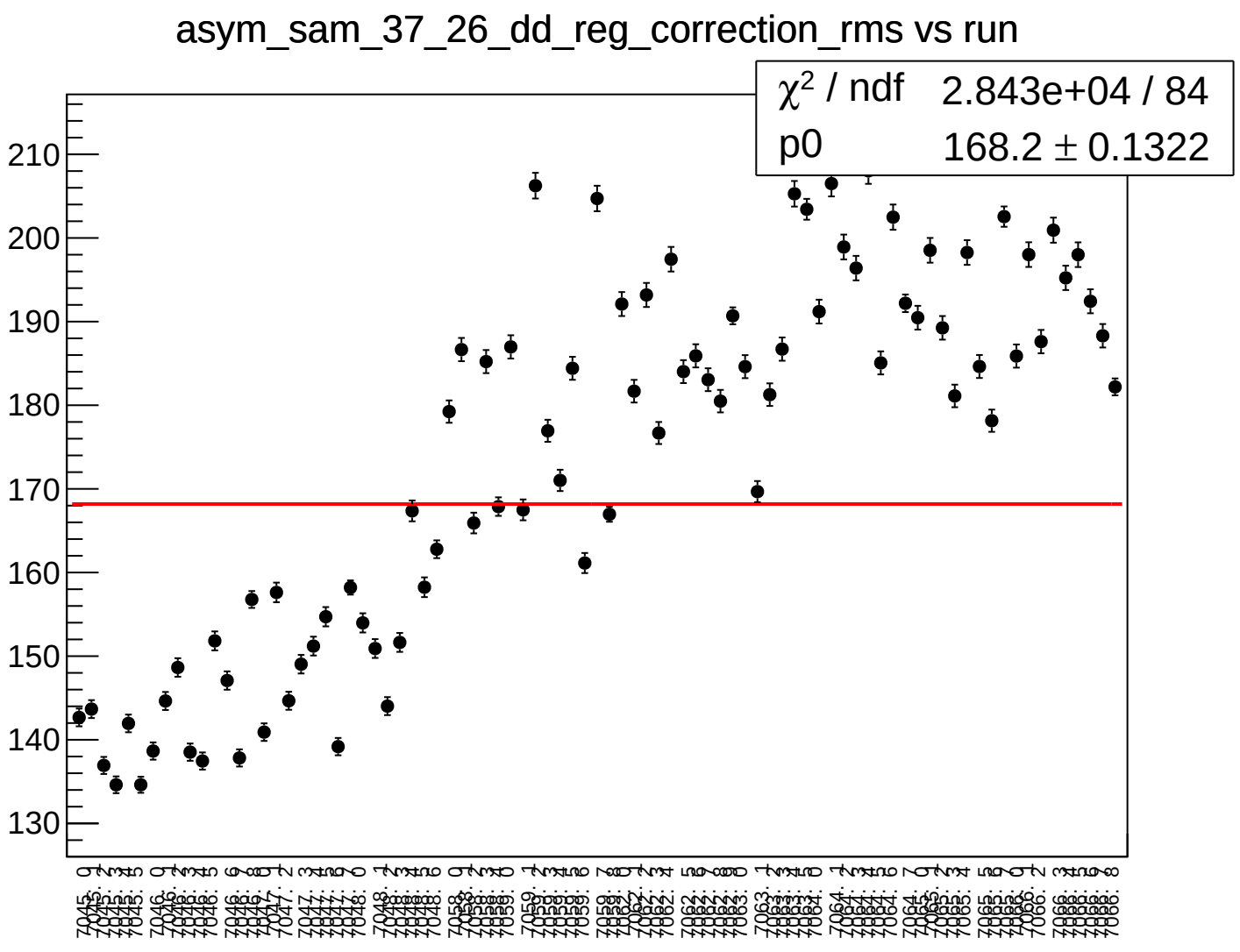

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.485e+05 / 84
p0 7.037e−12 ± 6.427e−15
40
35
30
25
20
15
10
5

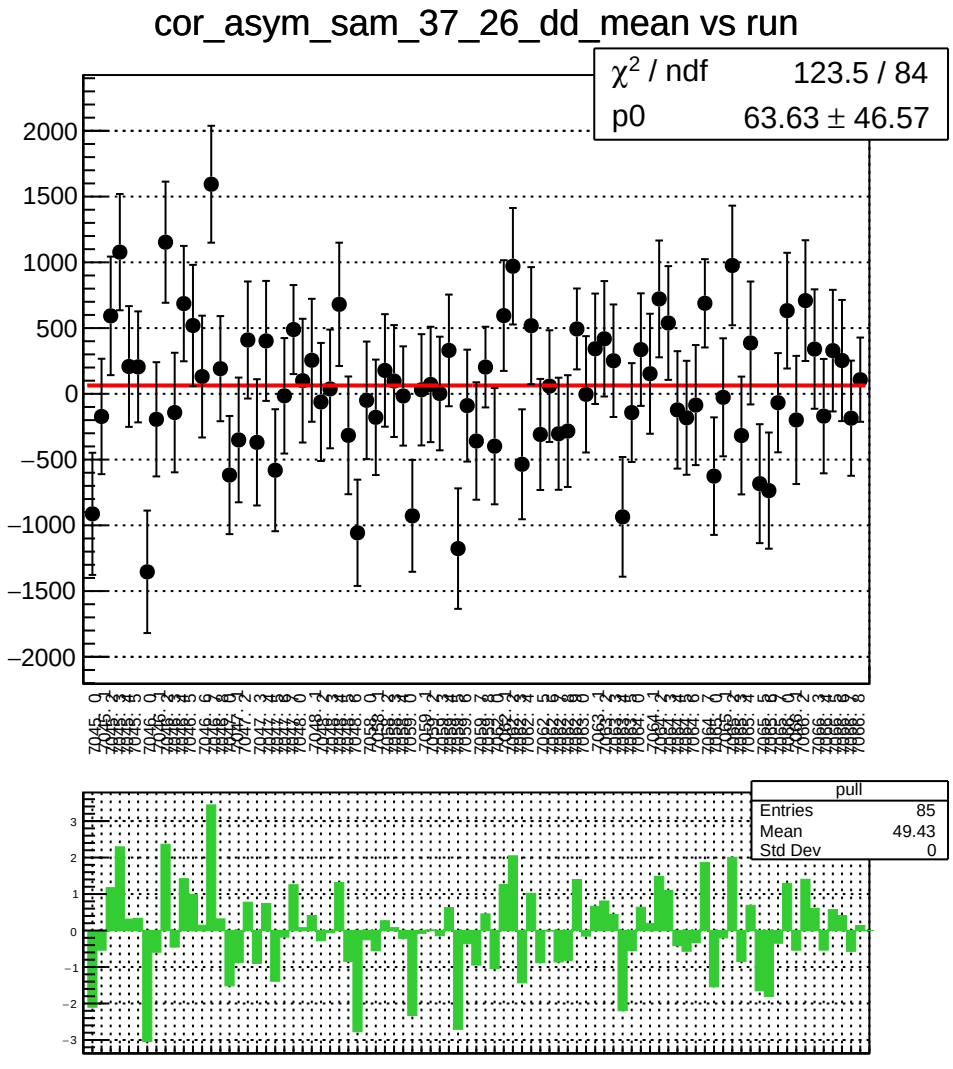

reg_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 123.5 / 84
p0 63.63 ± 46.57
pull
Entries 85
Mean 49.43
Std Dev 0

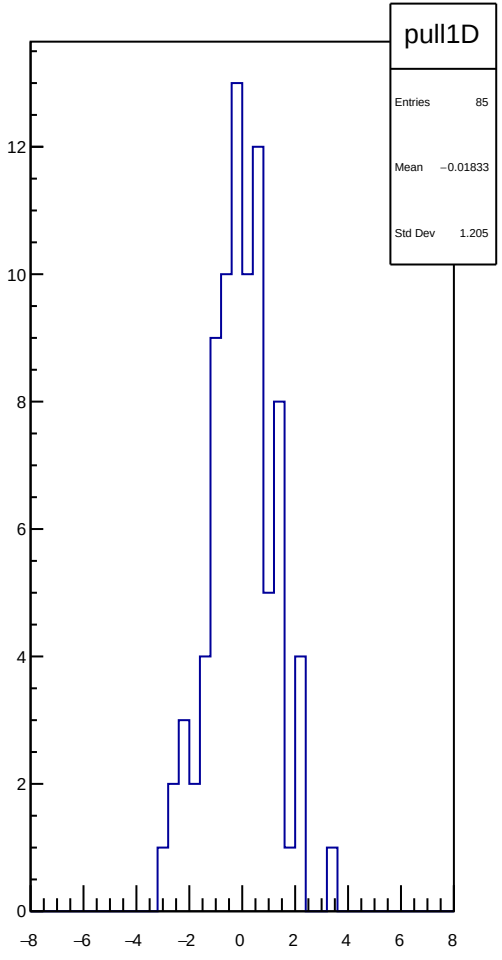

pull1D
Entries 85
Mean −0.01833
Std Dev 1.205

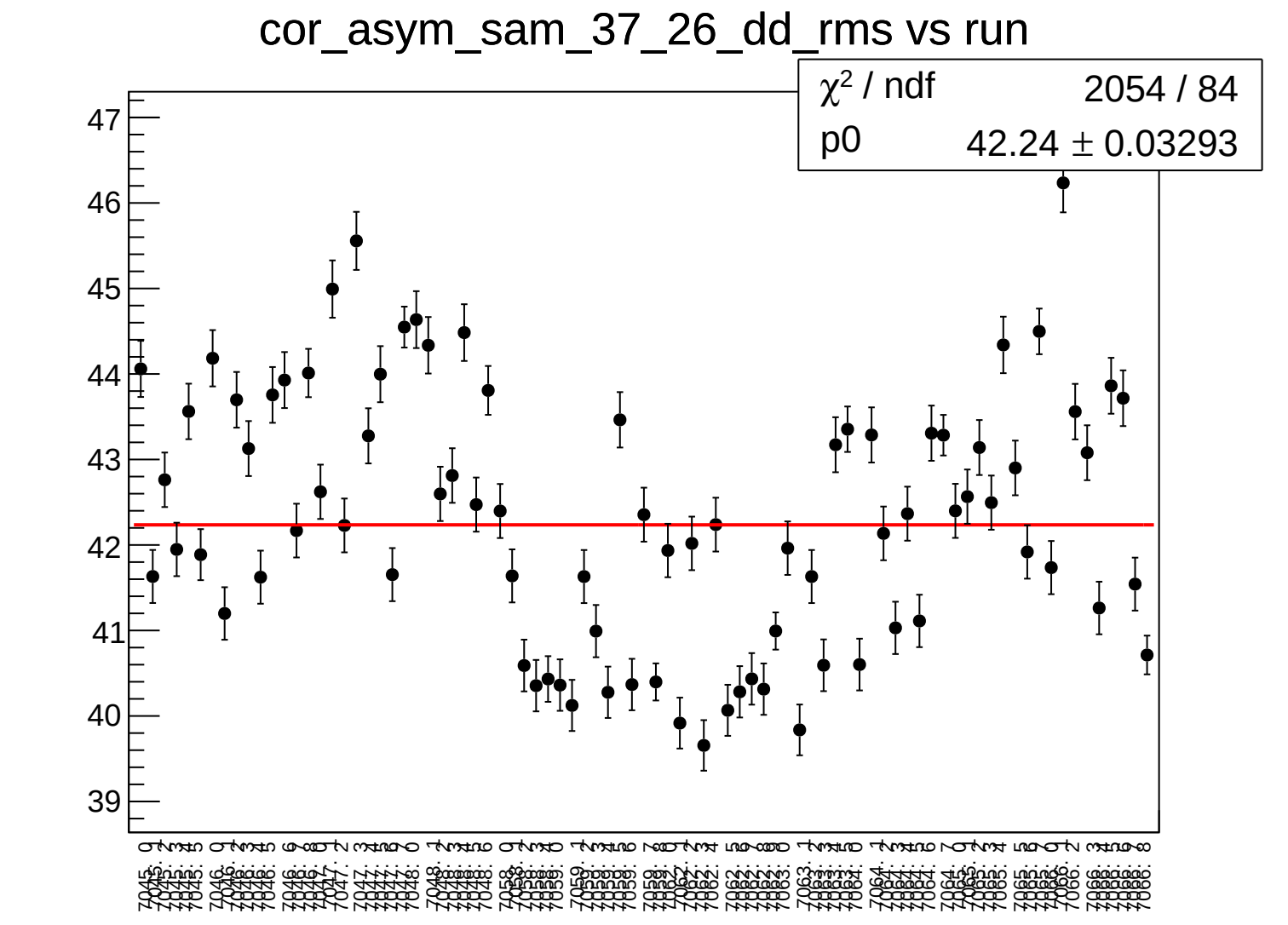

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2054 / 84
p0 42.24 ± 0.03293
47
46
45
44
43
42
41
40
39

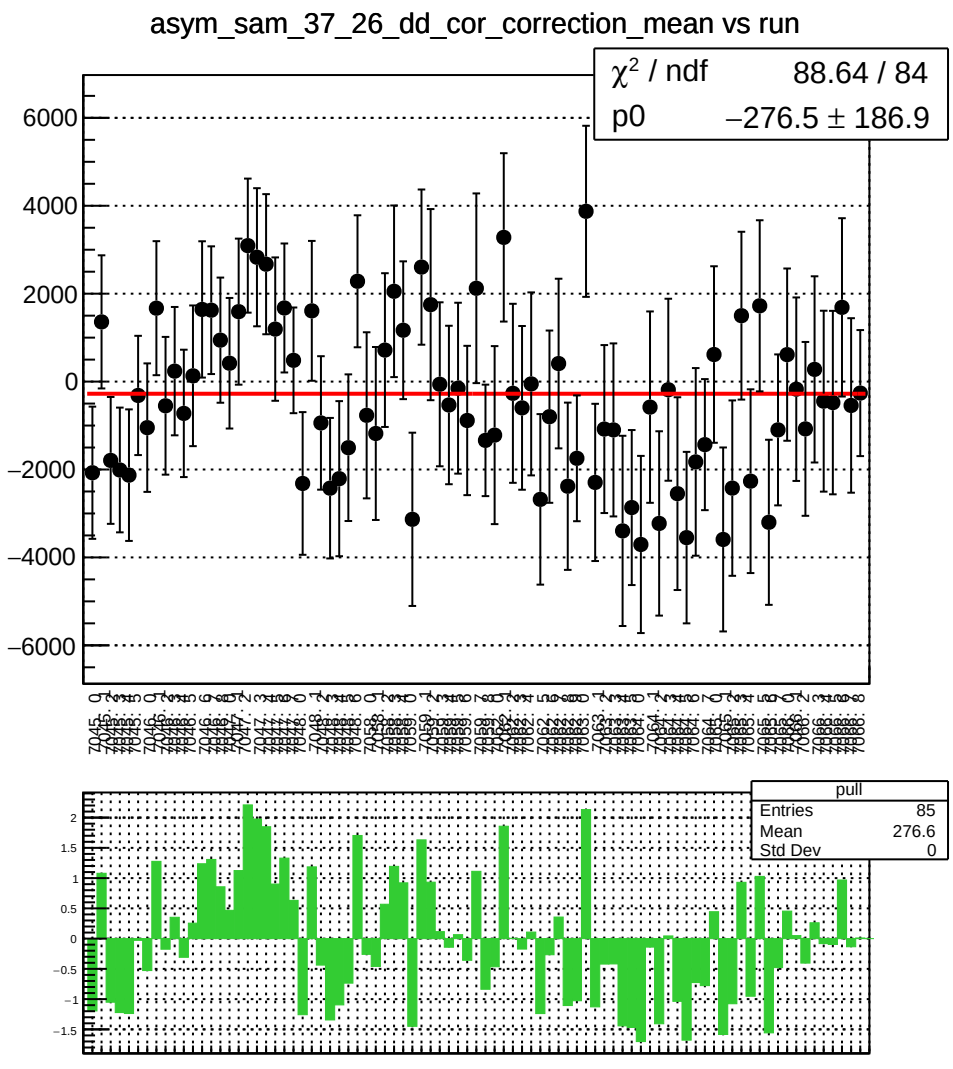

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 88.64 / 84
p0 −276.5 ± 186.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 276.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.02552
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

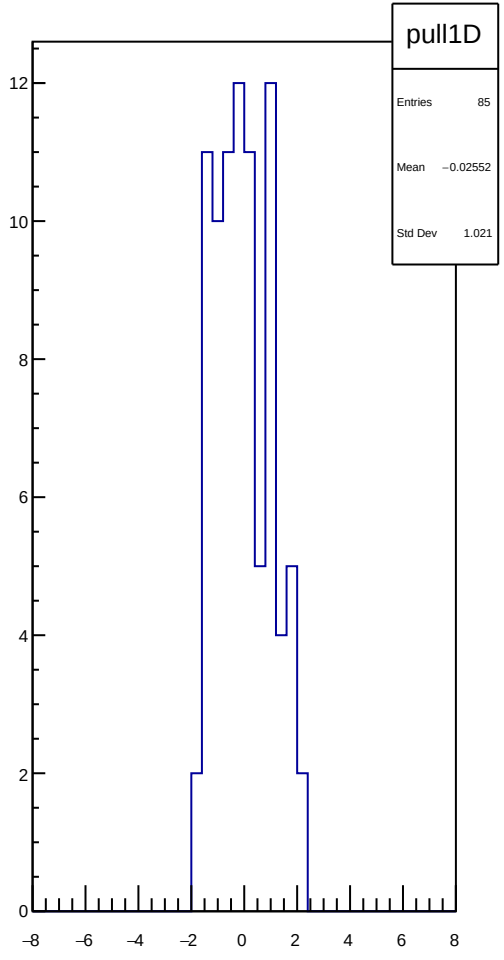

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.843e+04 / 84
p0 168.2 ± 0.1322
210
200
190
180
170
160
150
140
130

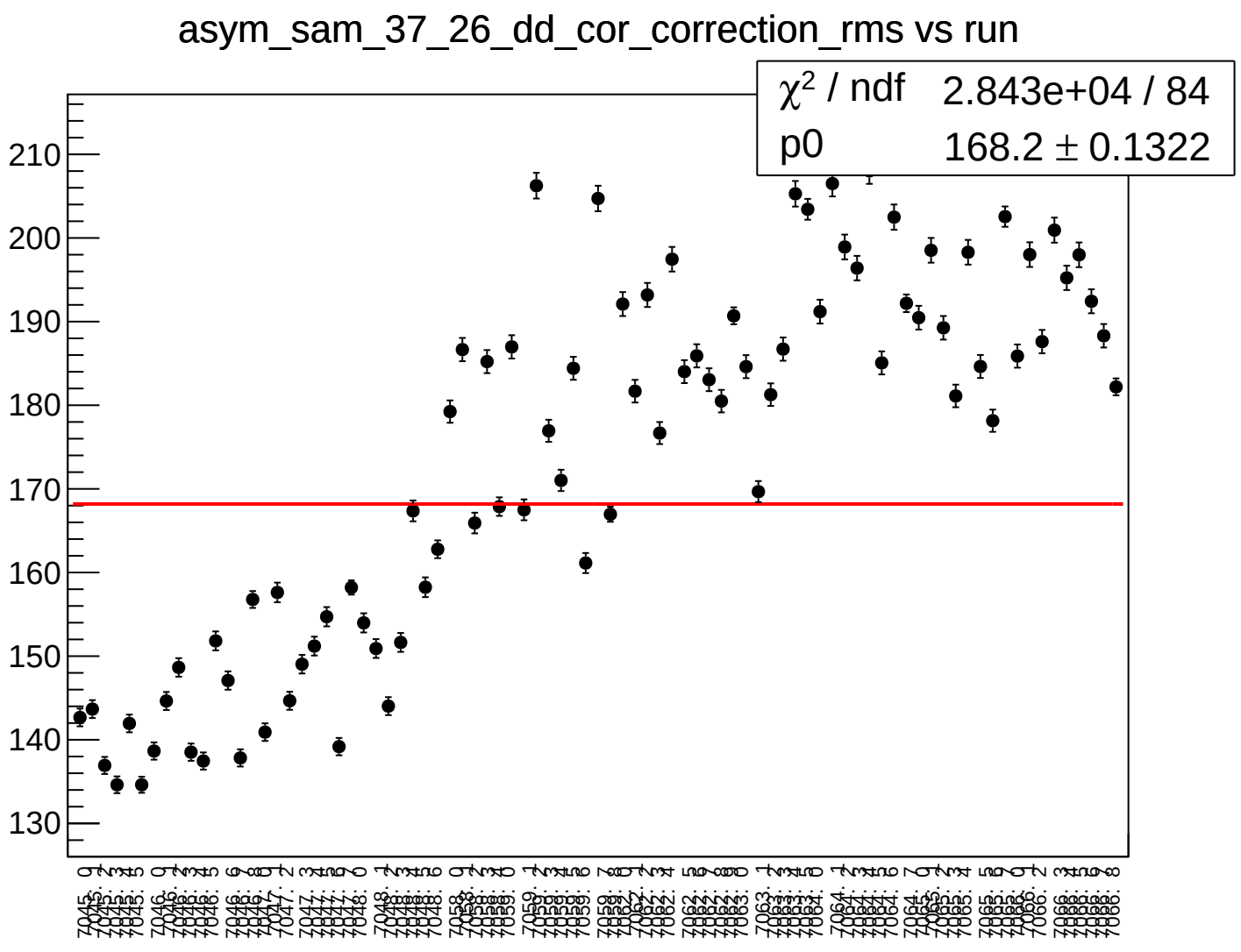

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 123.5 / 84
p0 63.63 ± 46.57
pull
Entries 85
Mean 49.43
Std Dev 0

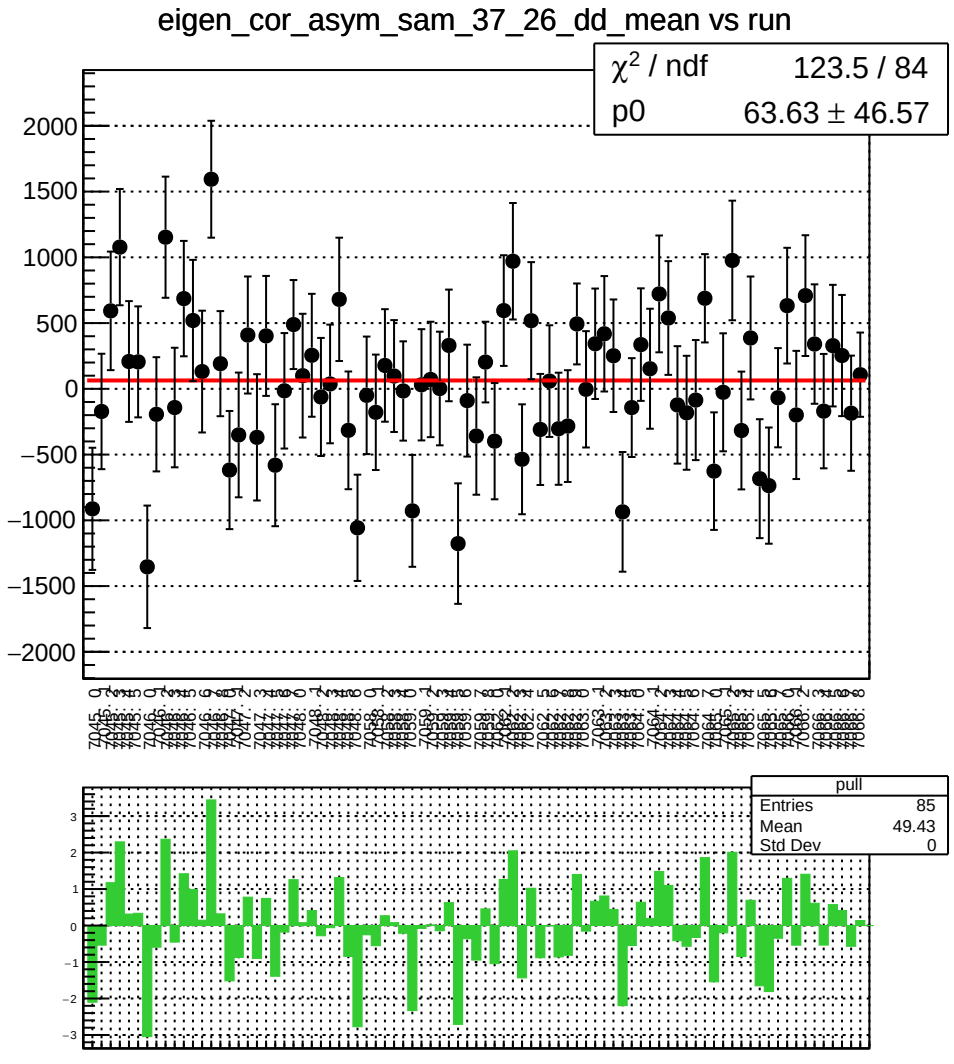

pull1D
Entries 85
Mean −0.01833
Std Dev 1.205

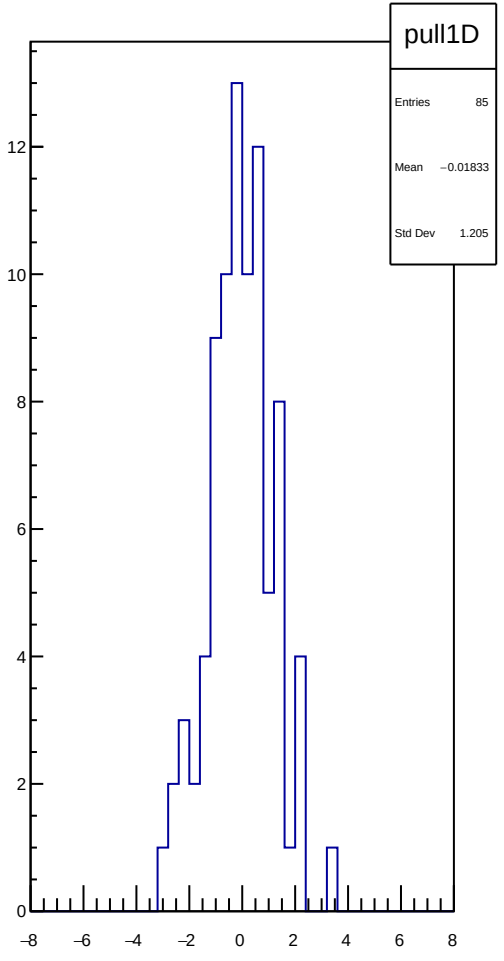

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2054 / 84
p0 42.24 ± 0.03293
47
46
45
44
43
42
41
40
39

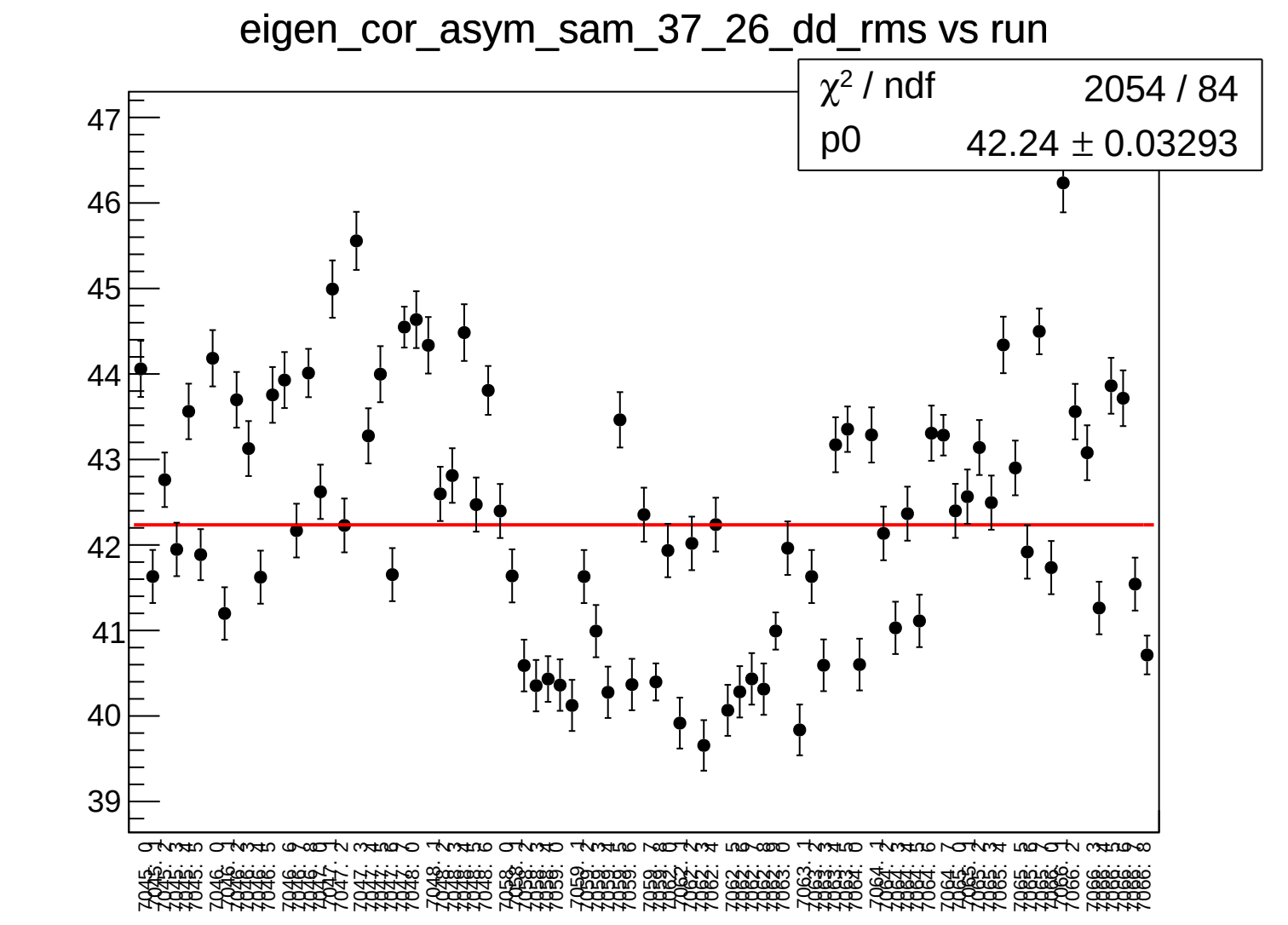

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 88.64 / 84
p0 −276.5 ± 186.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 276.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

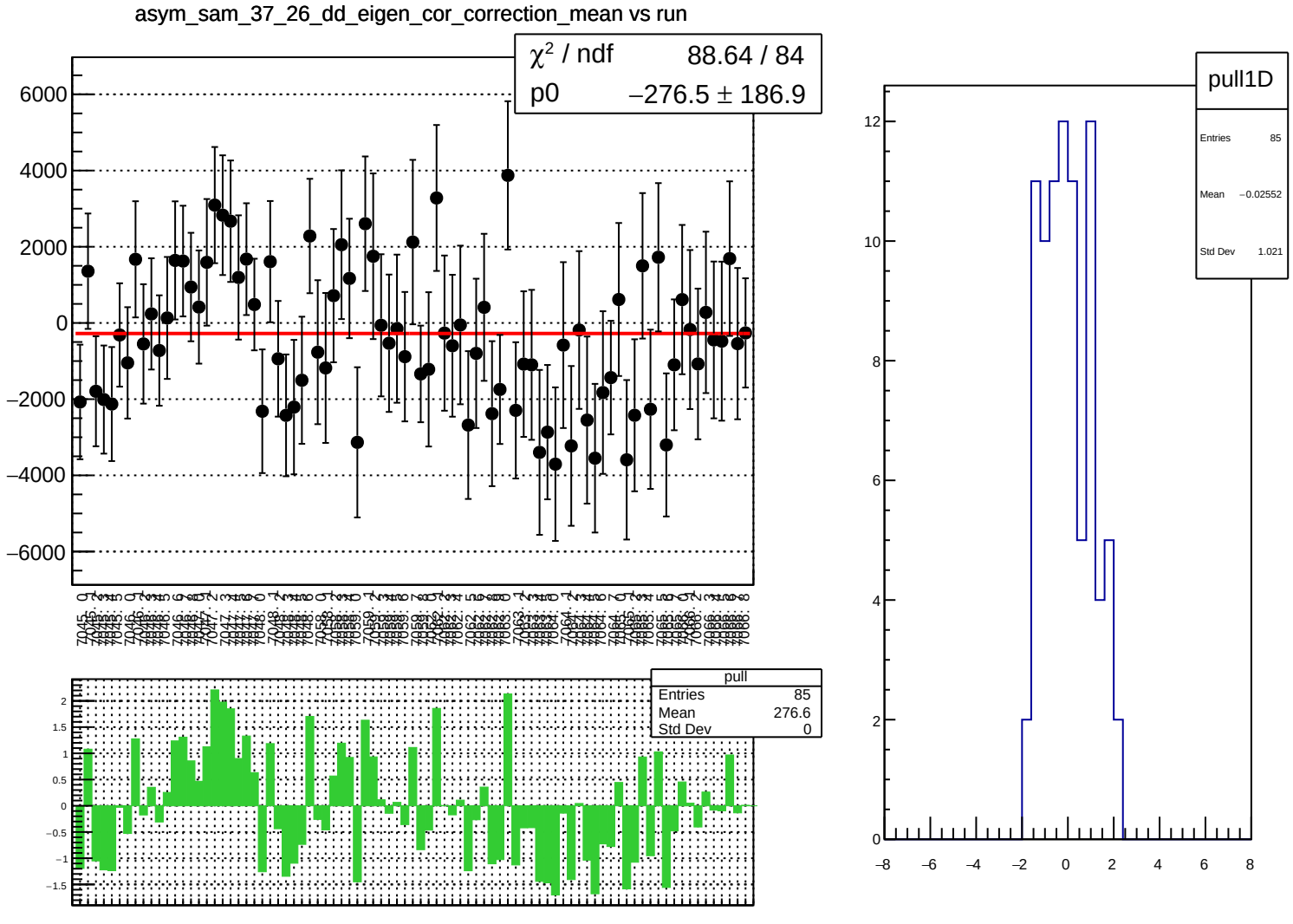

pull1D
Entries 85
Mean −0.02552
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

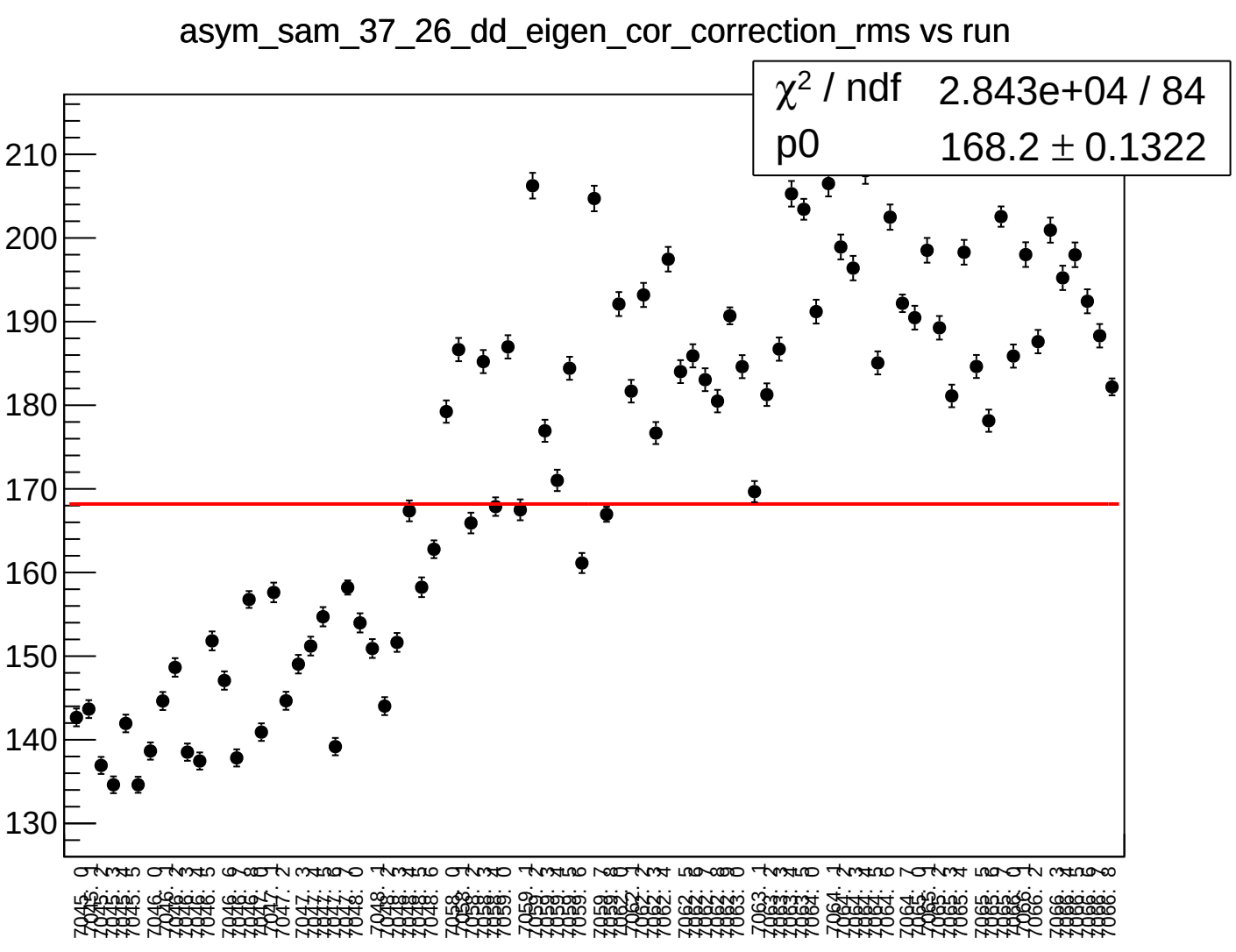

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2.843e+04 / 84
p0 168.2 ± 0.1322
210
200
190
180
170
160
150
140
130

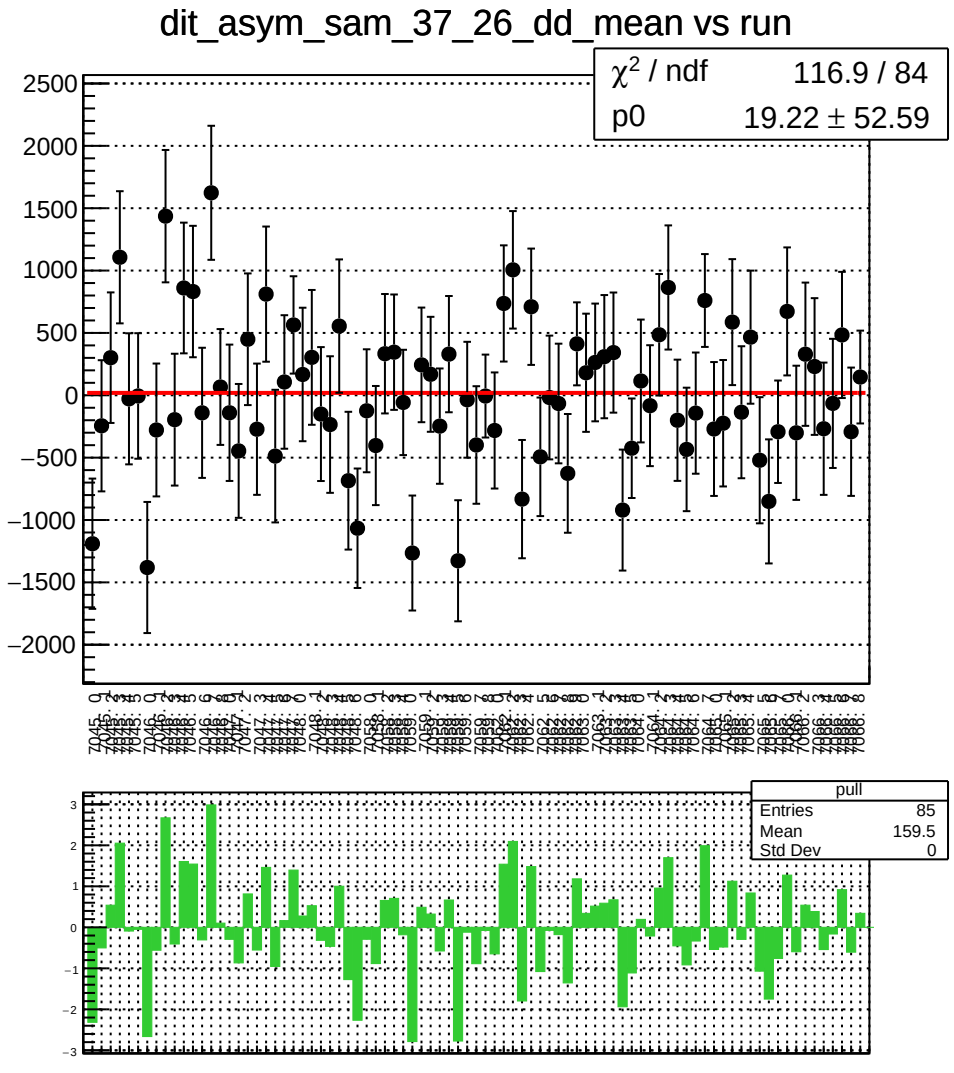

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 123.5 / 84
p0 63.63 ± 46.57
pull
Entries 85
Mean 49.43
Std Dev 0

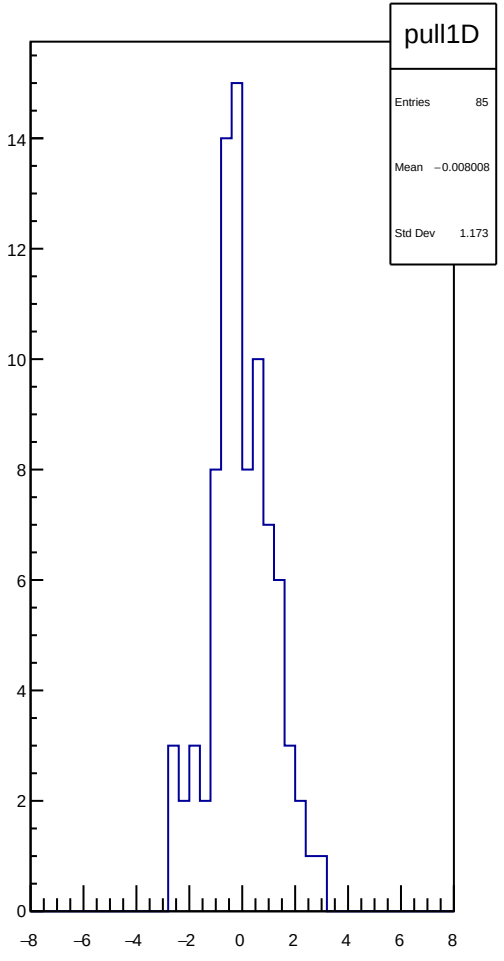

pull1D
Entries 85
Mean −0.01833
Std Dev 1.205

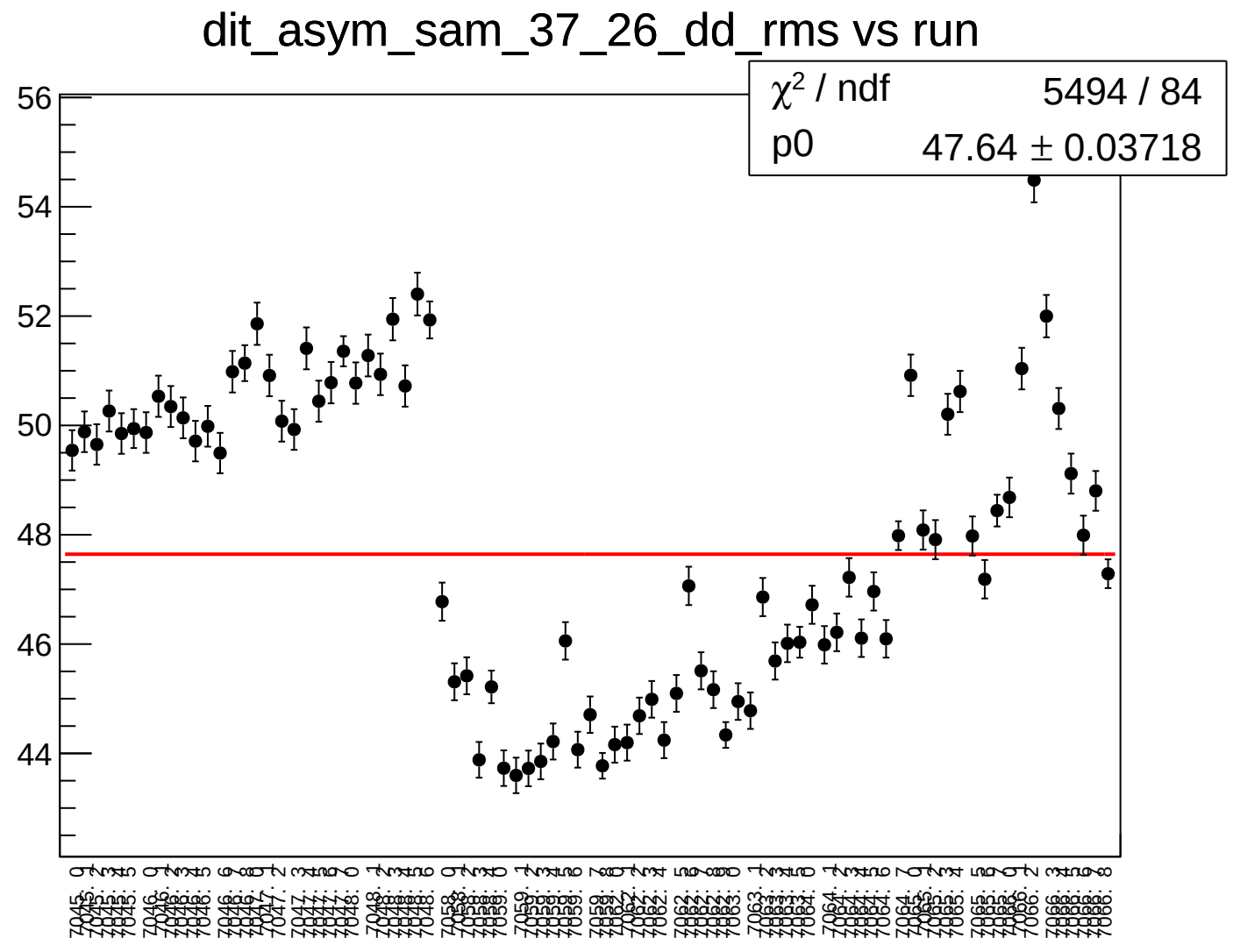

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2054 / 84
p0 42.24 ± 0.03293
47
46
45
44
43
42
41
40
39

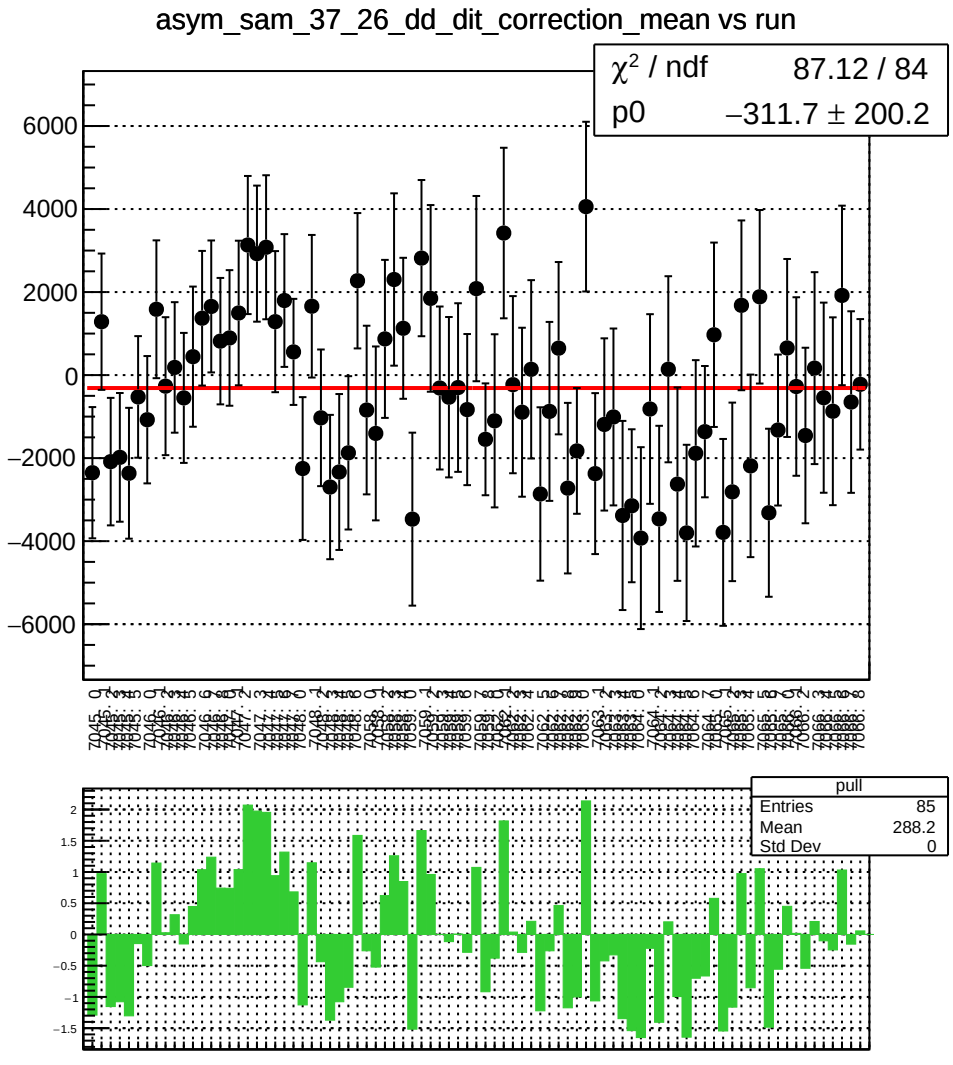

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.64 / 84
p0 −276.5 ± 186.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 276.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.02552
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

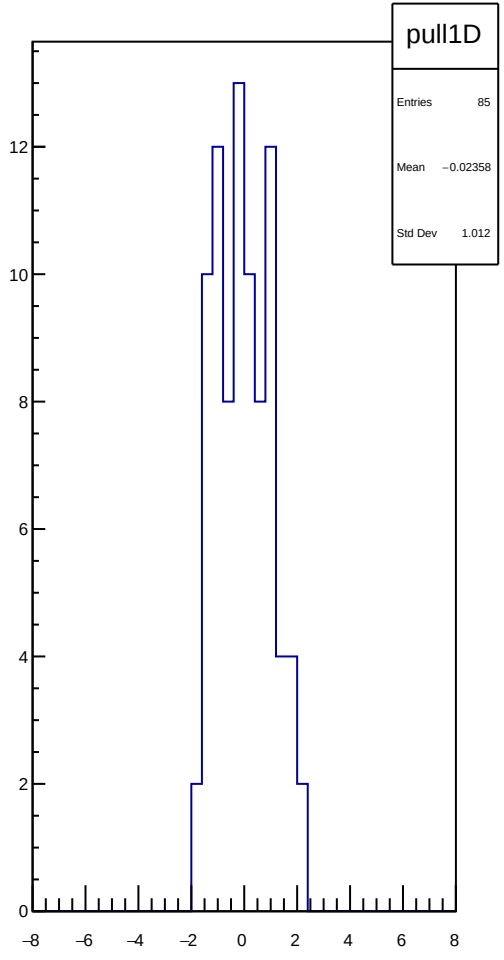

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.843e+04 / 84
p0 168.2 ± 0.1322
210
200
190
180
170
160
150
140
130

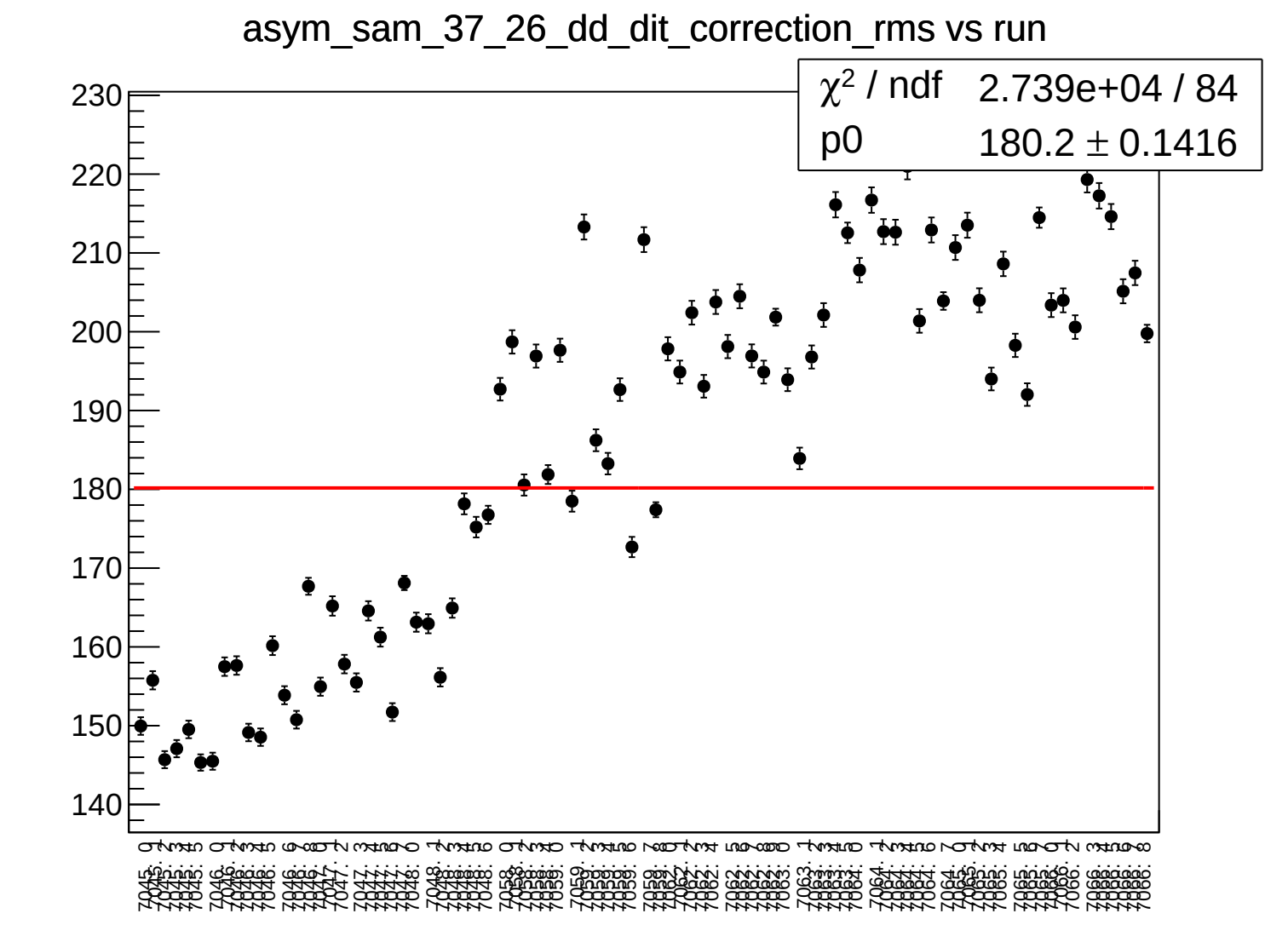

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 116.9 / 84
p0 19.22 ± 52.59
pull
Entries 85
Mean 159.5
Std Dev 0

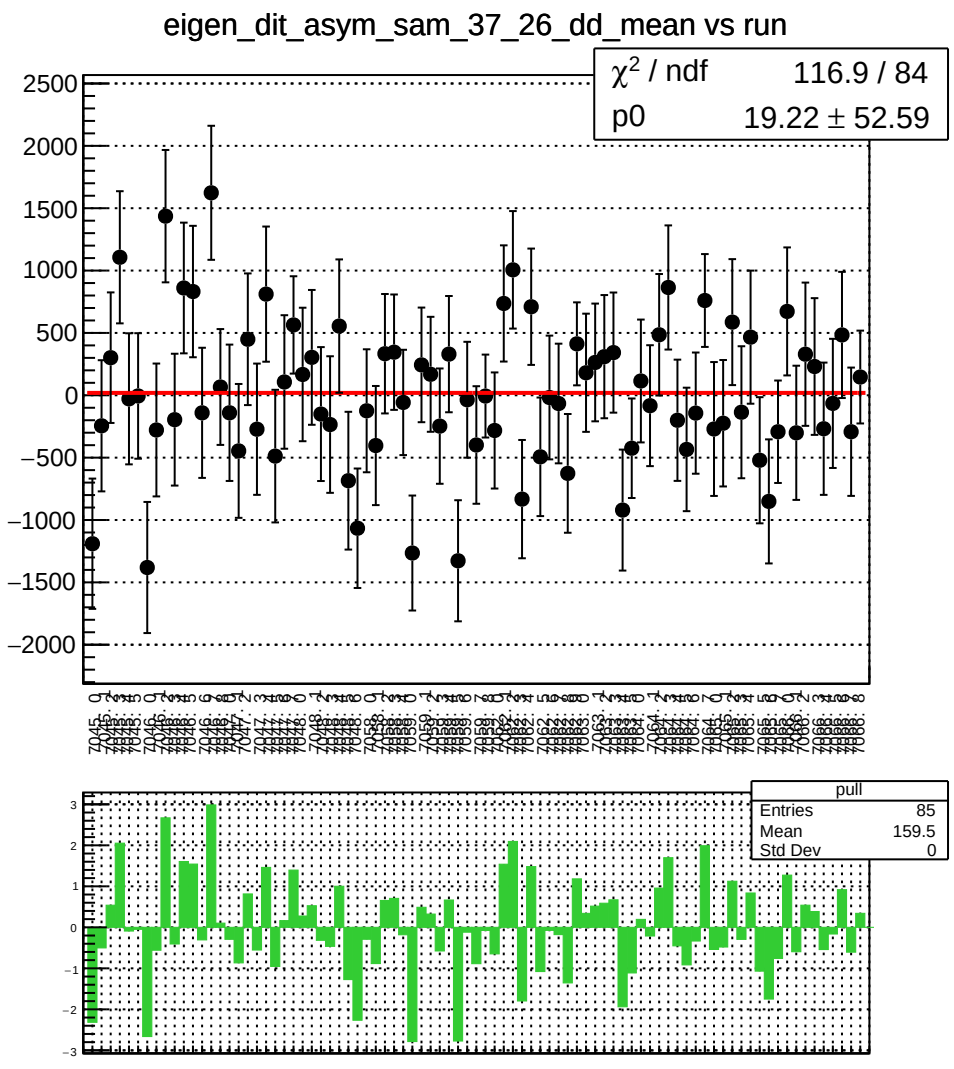

pull1D
Entries 85
Mean −0.008008
Std Dev 1.173

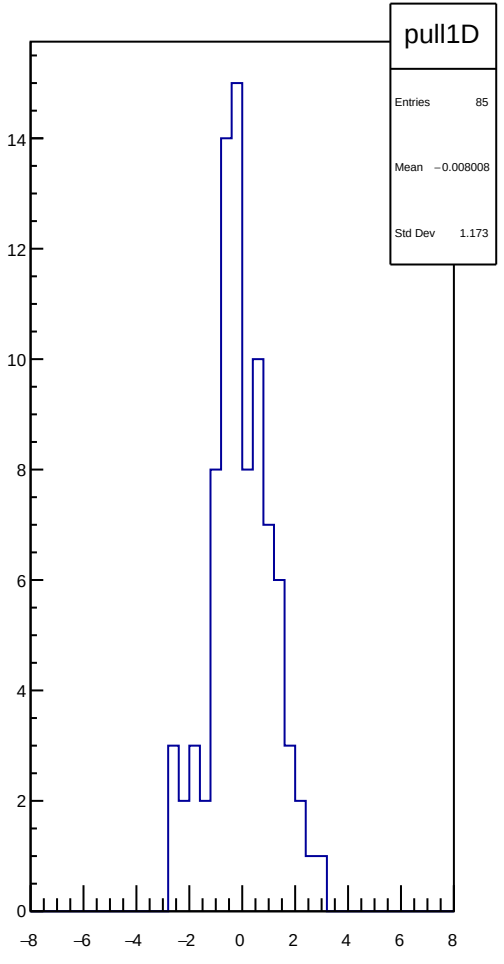

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5494 / 84
p0 47.64 ± 0.03718
56
54
52
50
48
46
44

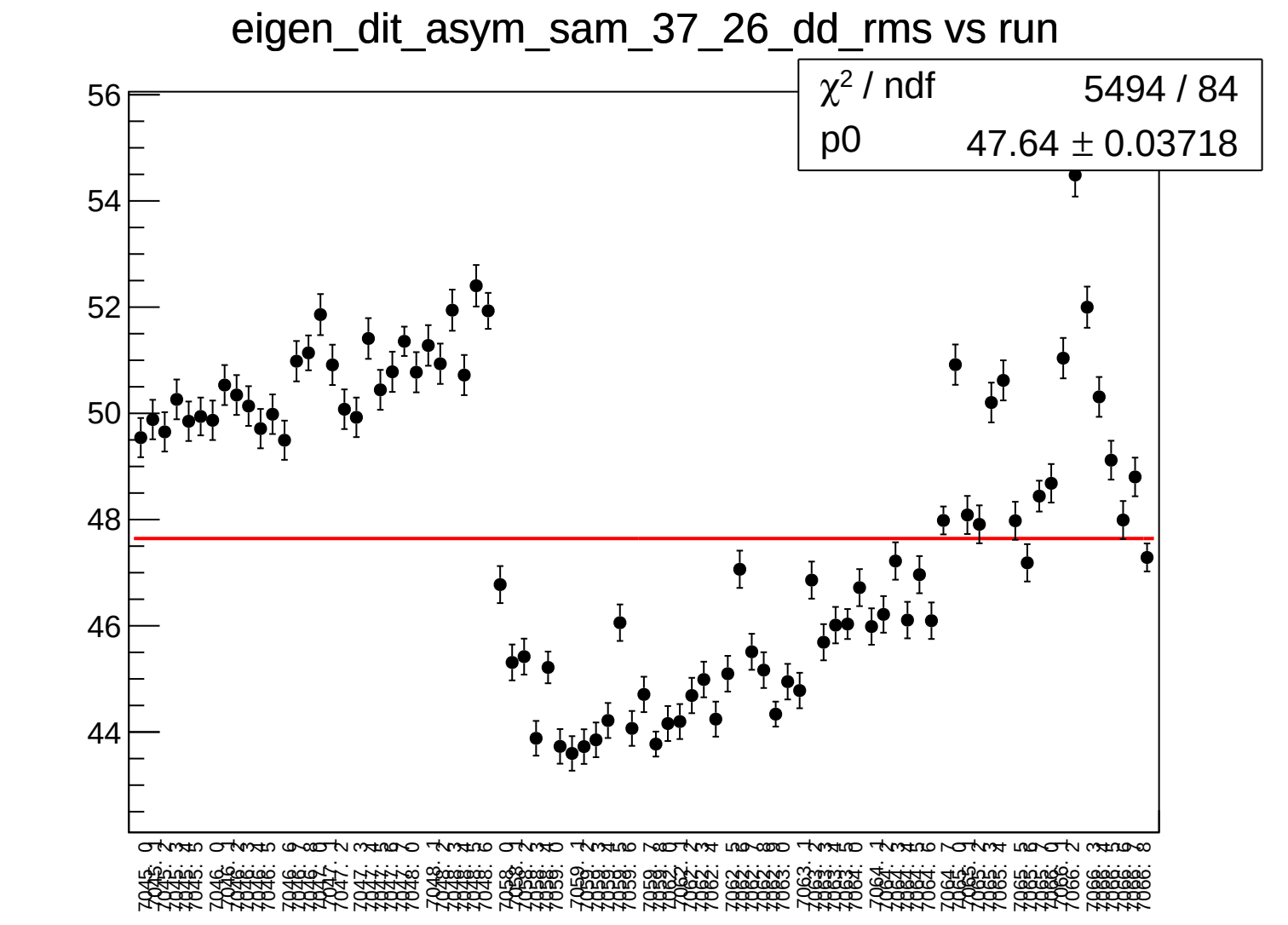

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 87.12 / 84
p0 −311.7 ± 200.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 288.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

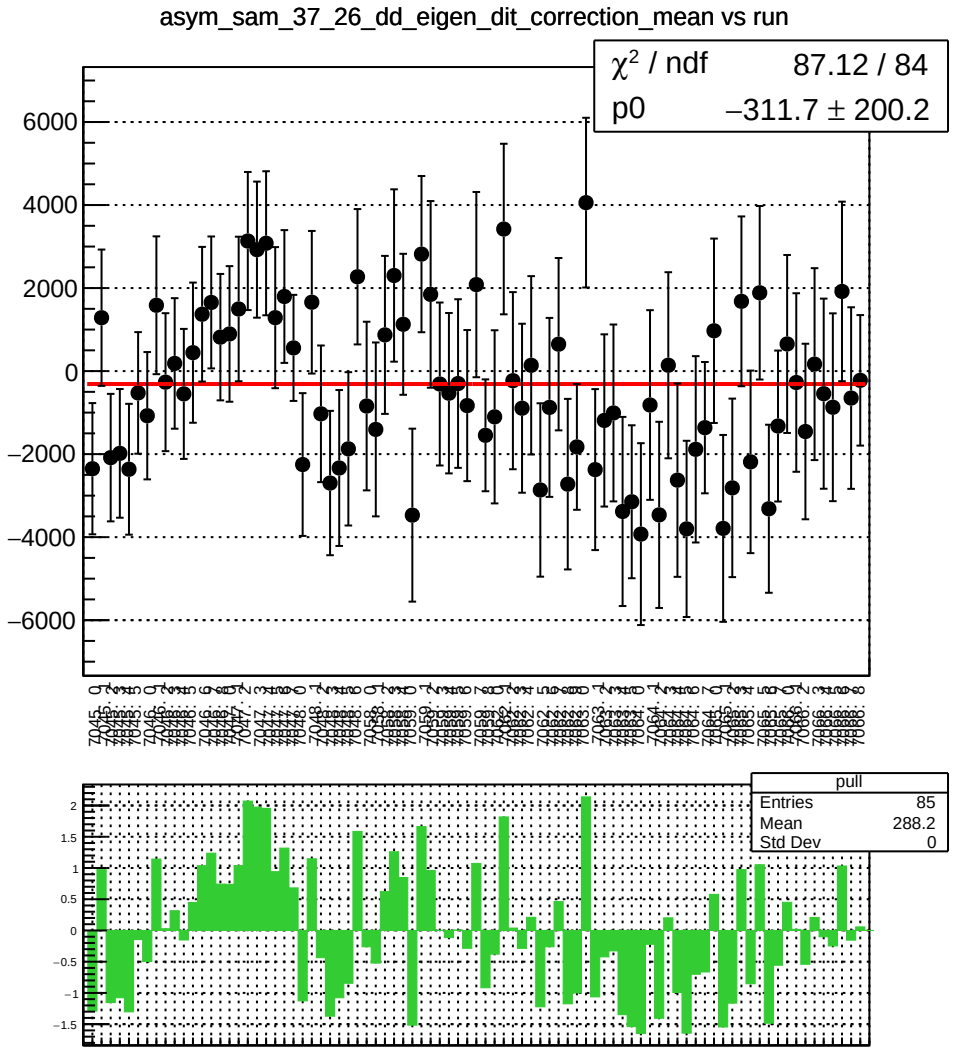

pull1D
Entries 85
Mean −0.02358
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

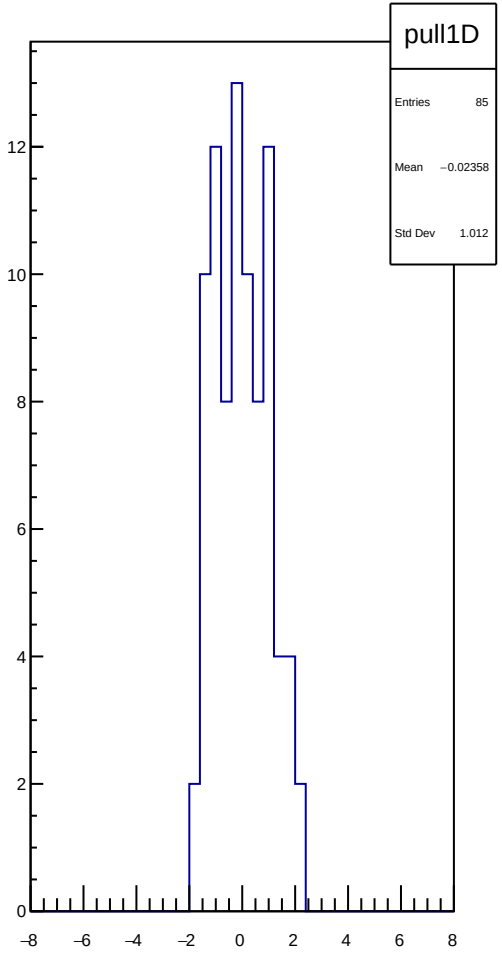

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2.739e+04 / 84
p0 180.2 ± 0.1416
230
220
210
200
190
180
170
160
150
140

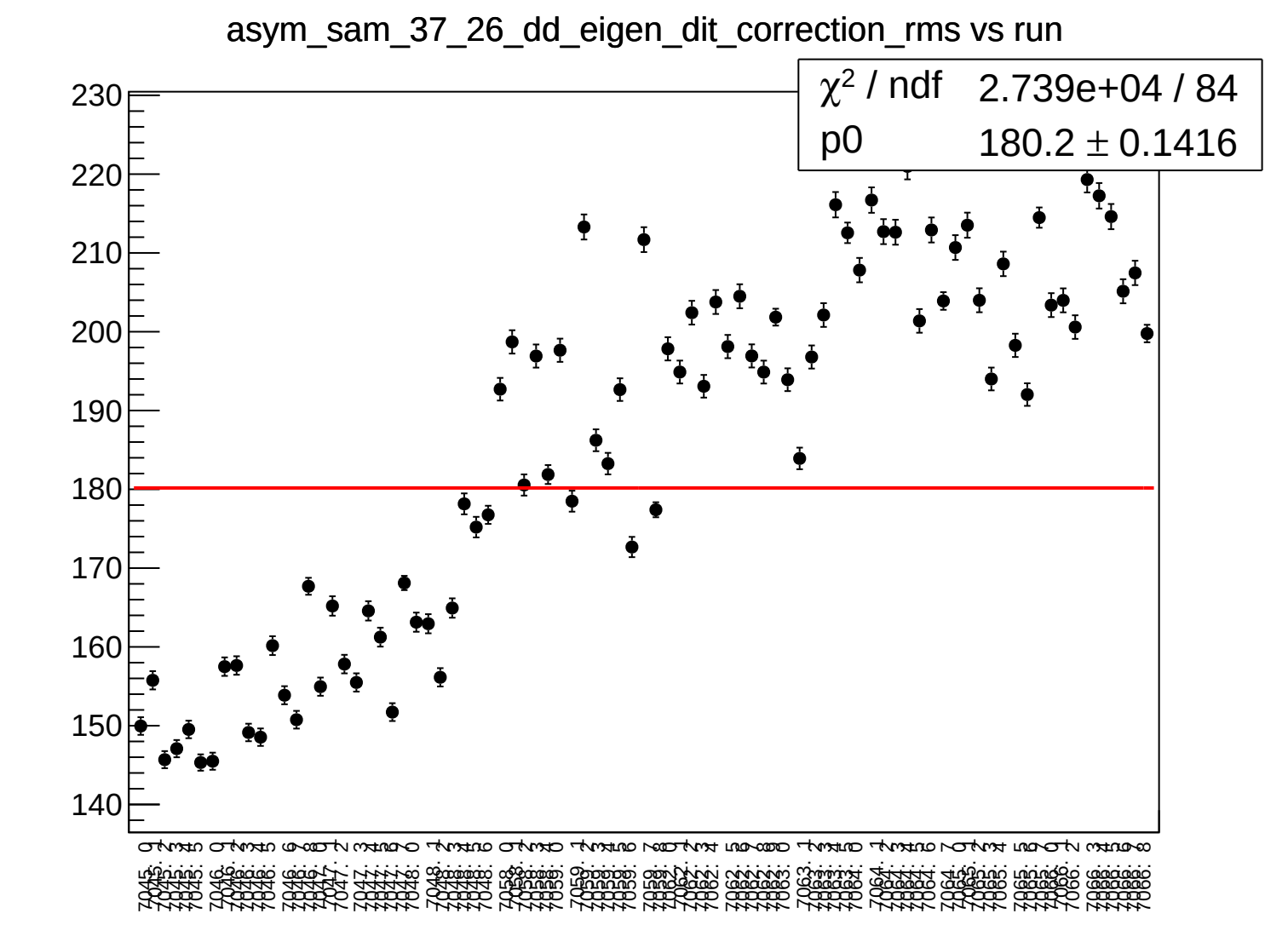

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 116.9 / 84
p0 19.22 ± 52.59
pull
Entries 85
Mean 159.5
Std Dev 0

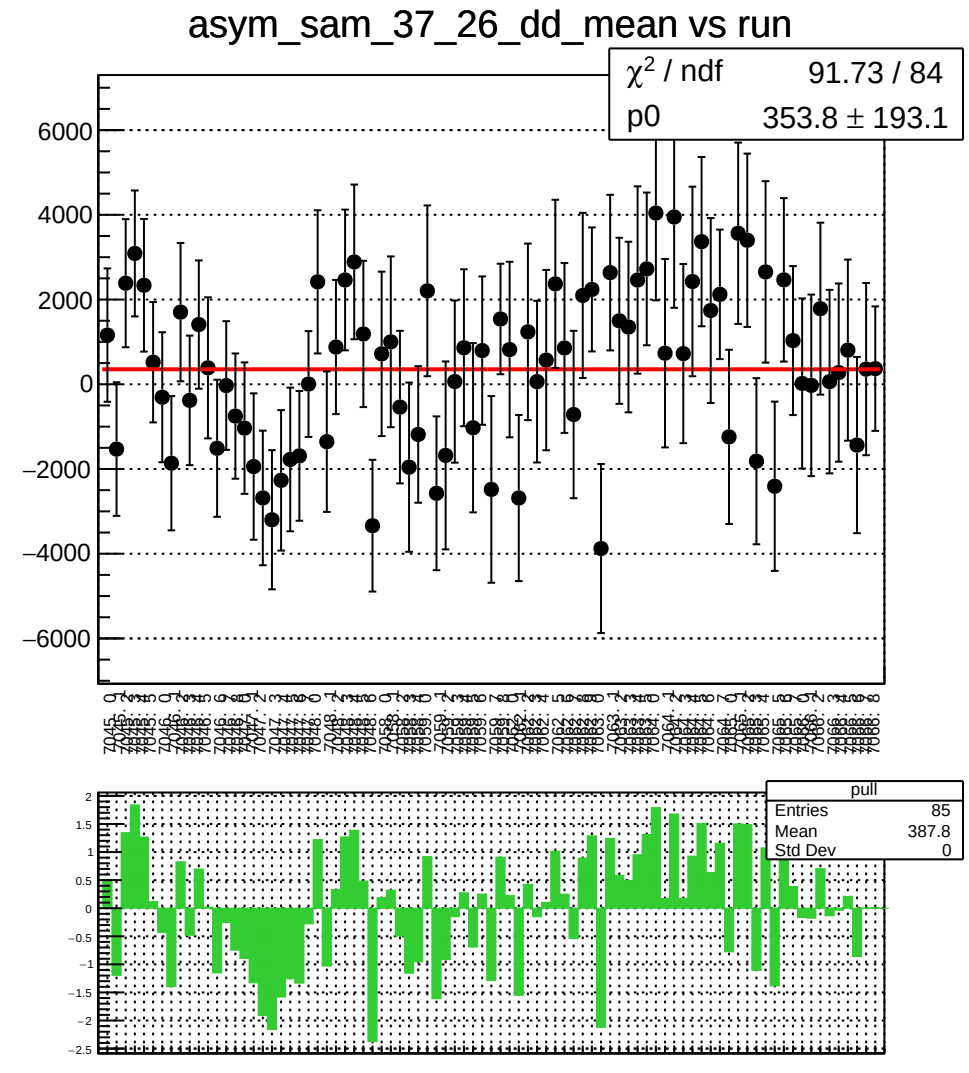

pull1D
Entries 85
Mean −0.008008
Std Dev 1.173

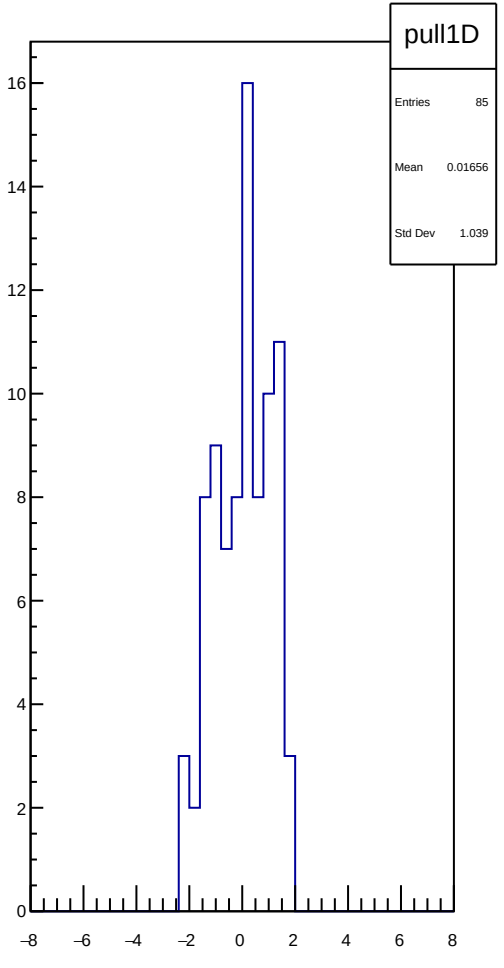

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5494 / 84
p0 47.64 ± 0.03718
56
54
52
50
48
46
44

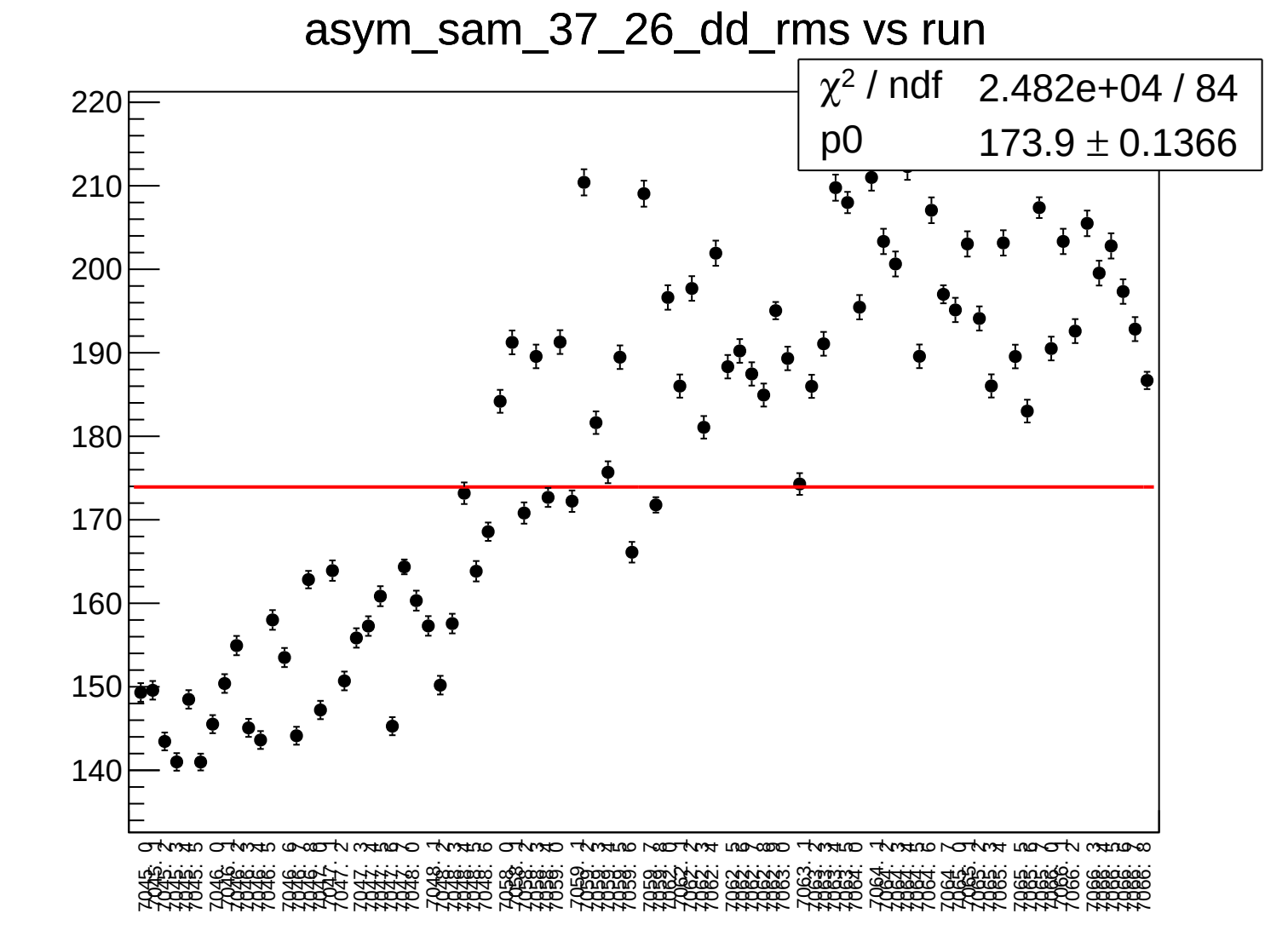

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.12 / 84
p0 −311.7 ± 200.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 288.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

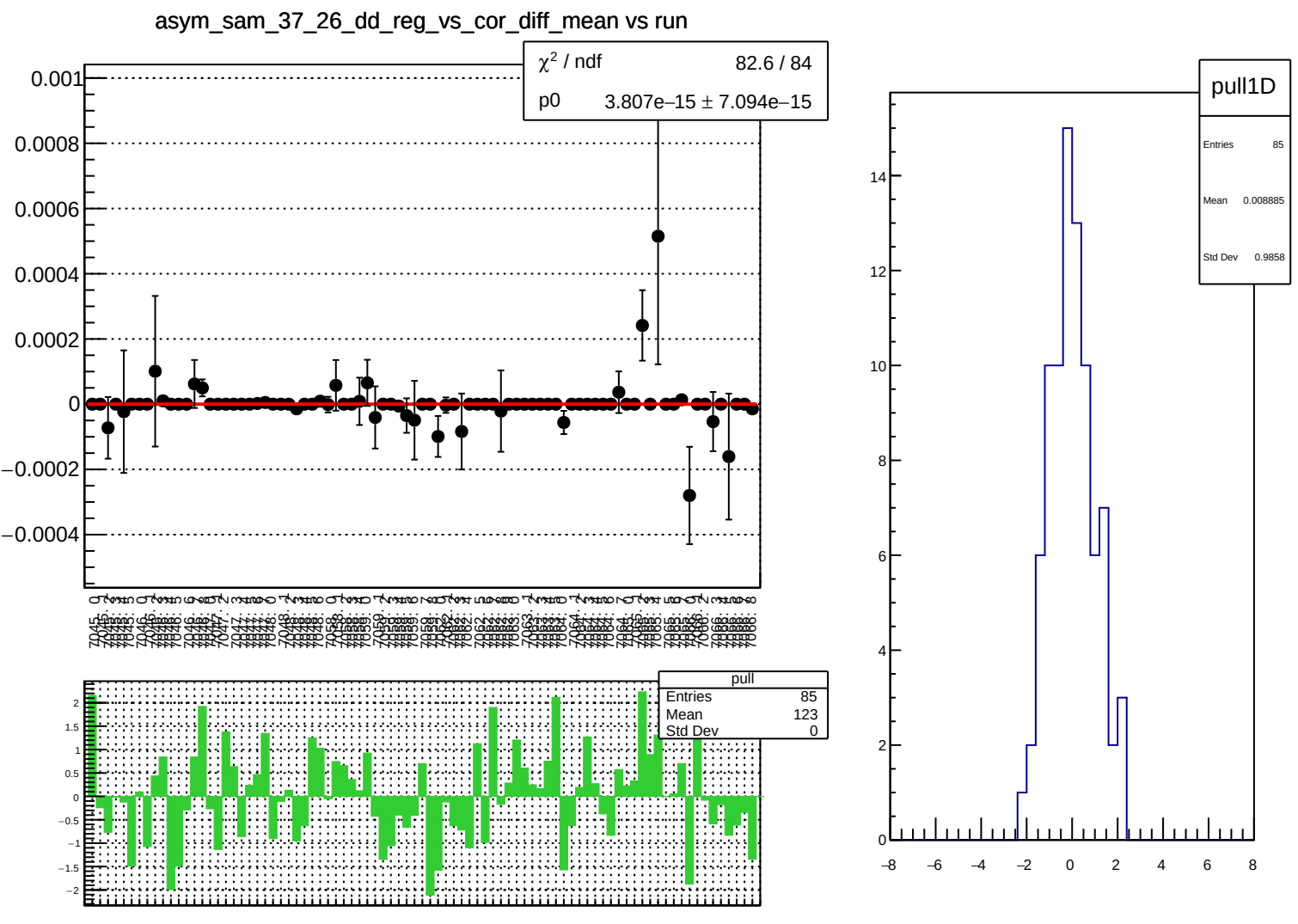

pull1D
Entries 85
Mean −0.02358
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

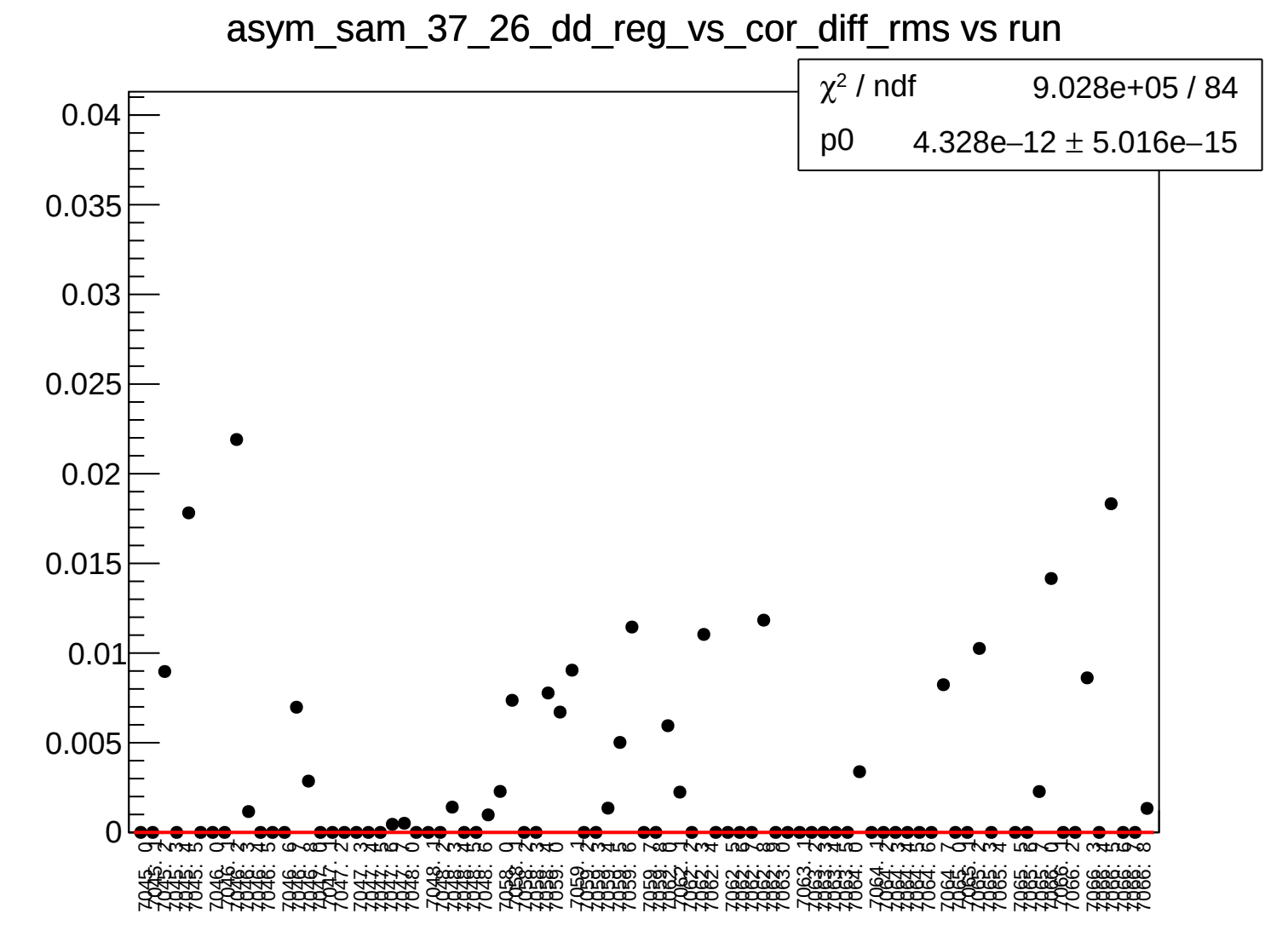

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.739e+04 / 84
p0 180.2 ± 0.1416
230
220
210
200
190
180
170
160
150
140

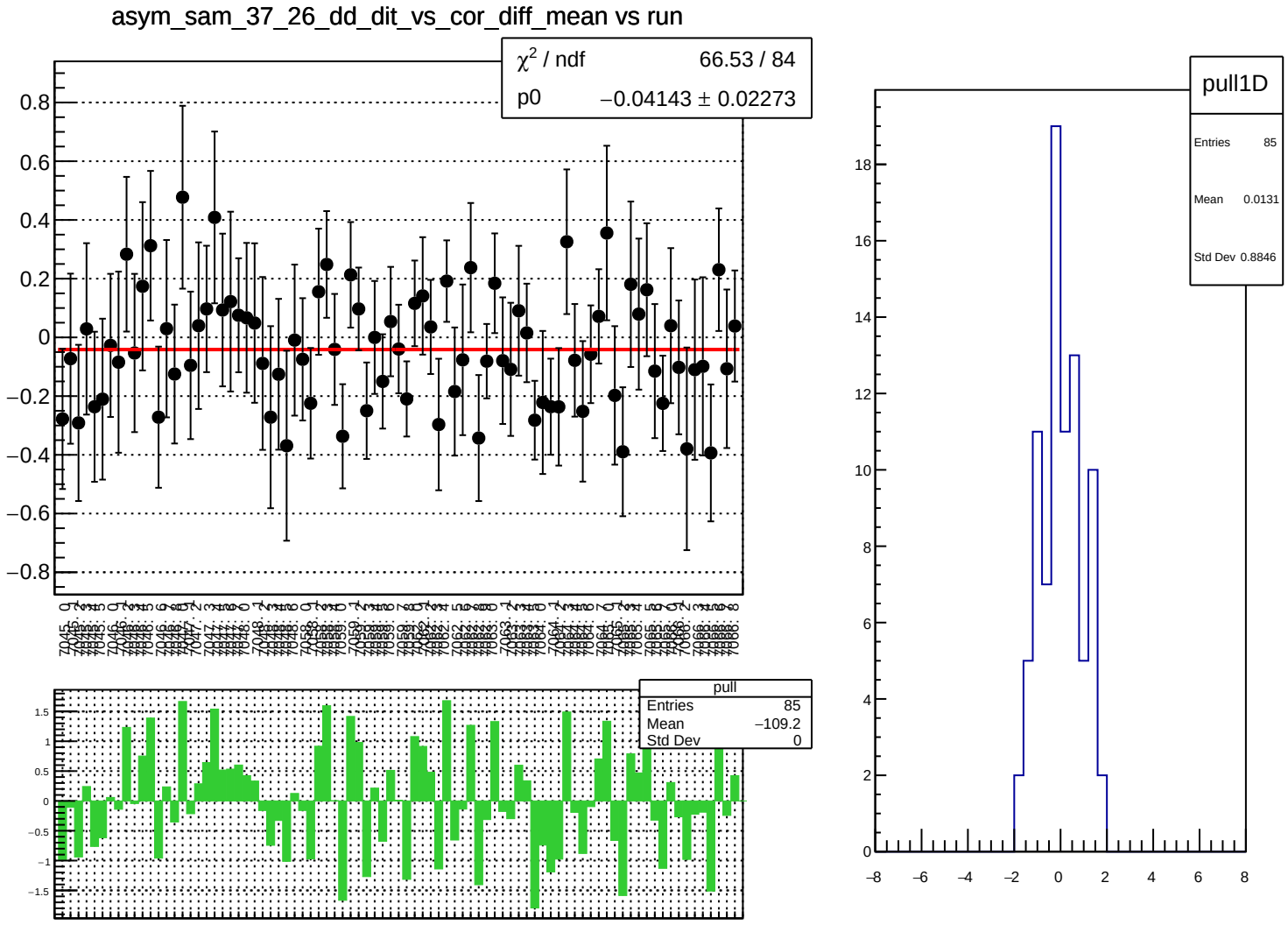

asym_sam_37_26_dd_mean vs run
χ² / ndf 91.73 / 84
p0 353.8 ± 193.1
pull
Entries 85
Mean 387.8
Std Dev 0

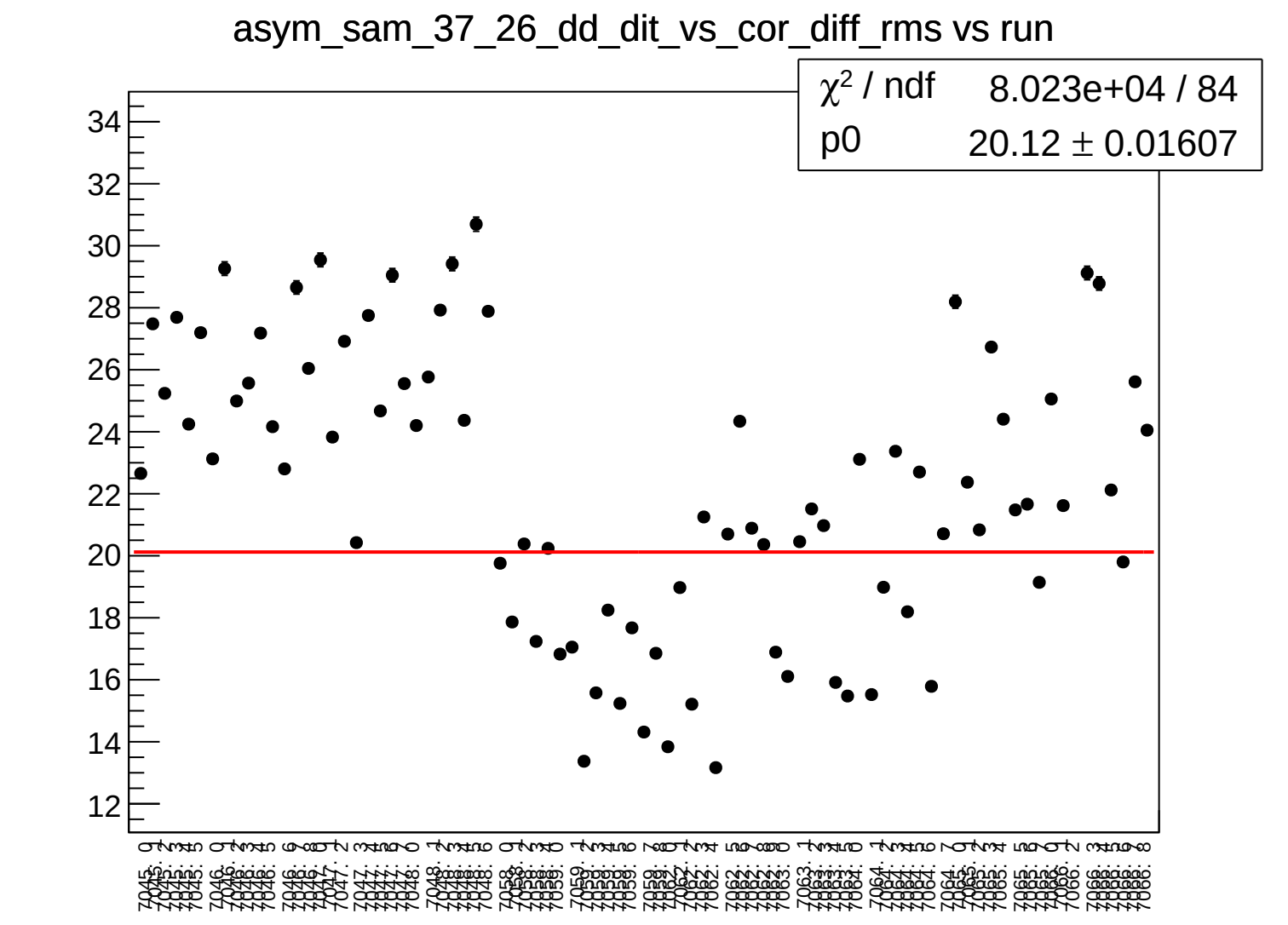

pull1D
Entries 85
Mean 0.01656
Std Dev 1.039

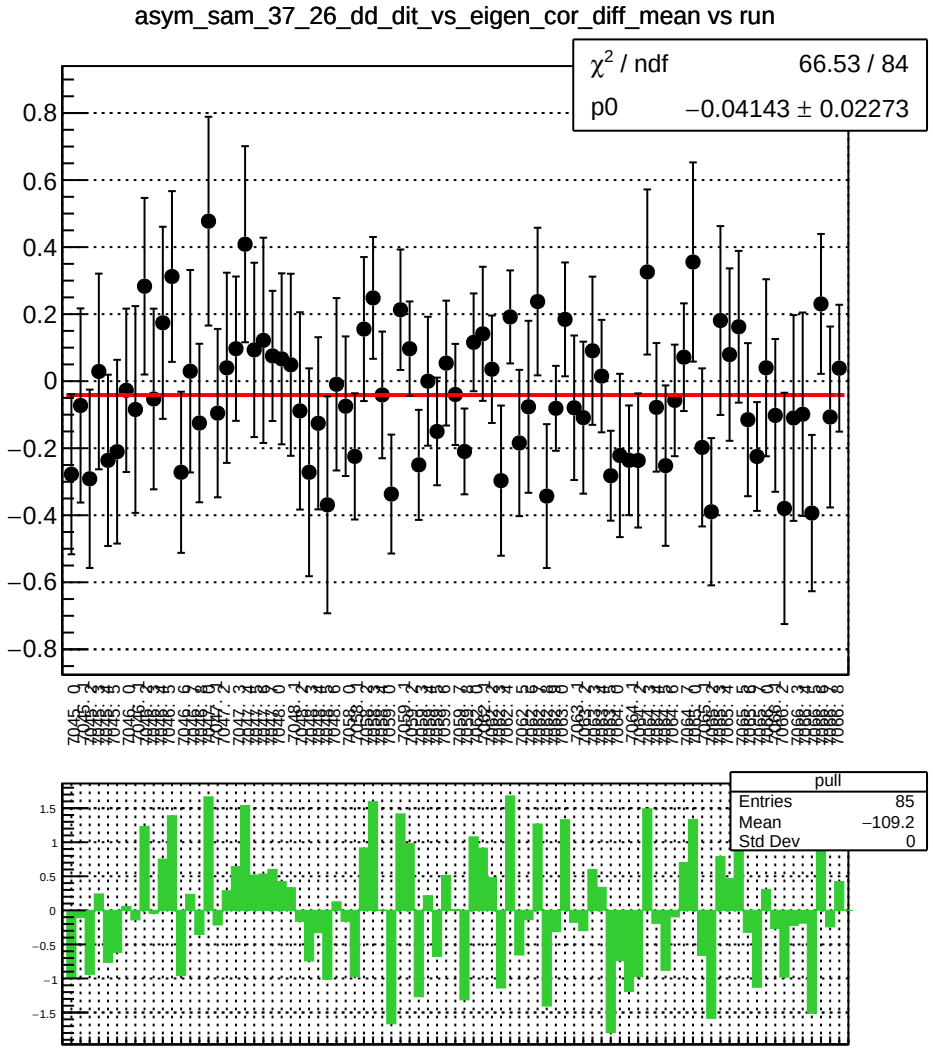

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.482e+04 / 84
p0 173.9 ± 0.1366
220
210
200
190
180
170
160
150
140

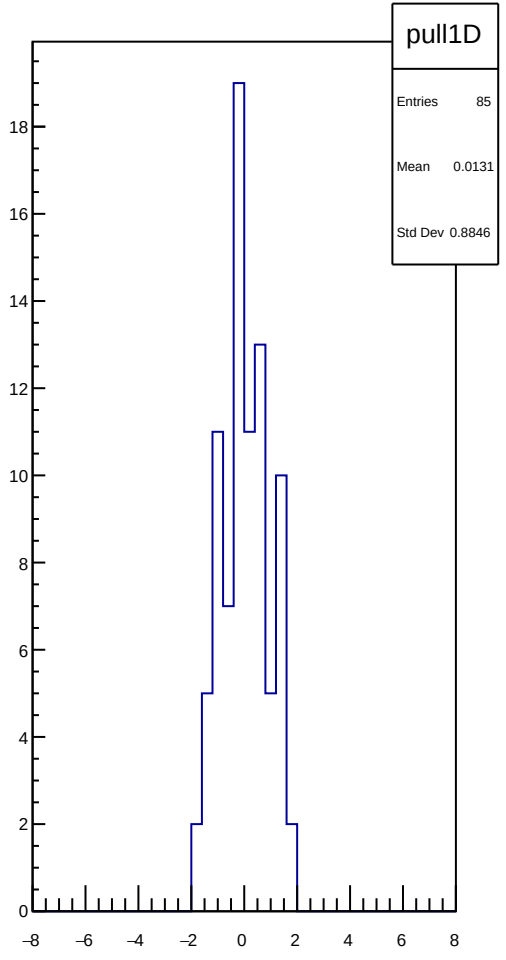

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.6 / 84
p0 3.807e−15 ± 7.094e−15
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 85
Mean 123
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.008885
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

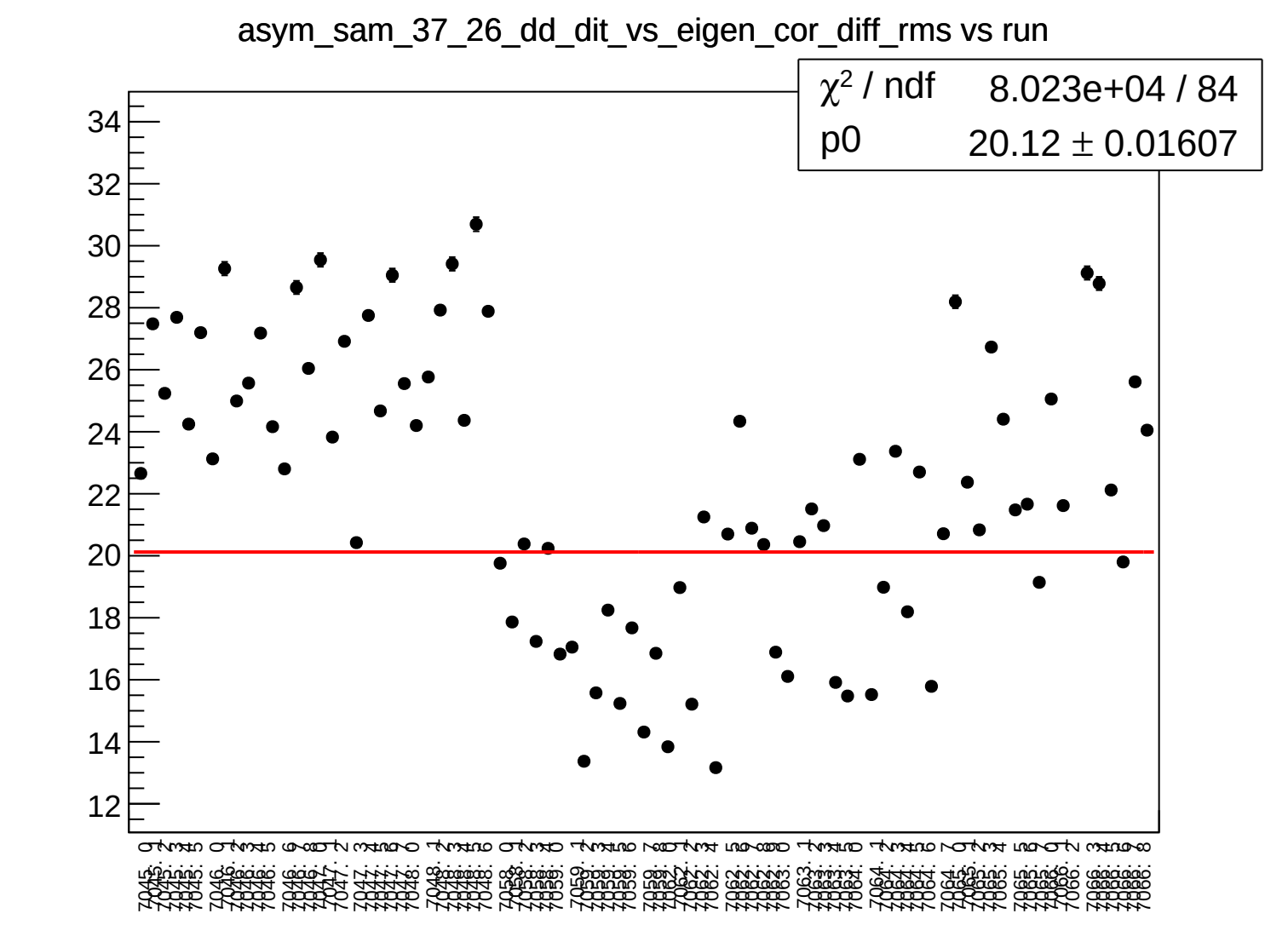

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.028e+05 / 84
p0 4.328e−12 ± 5.016e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

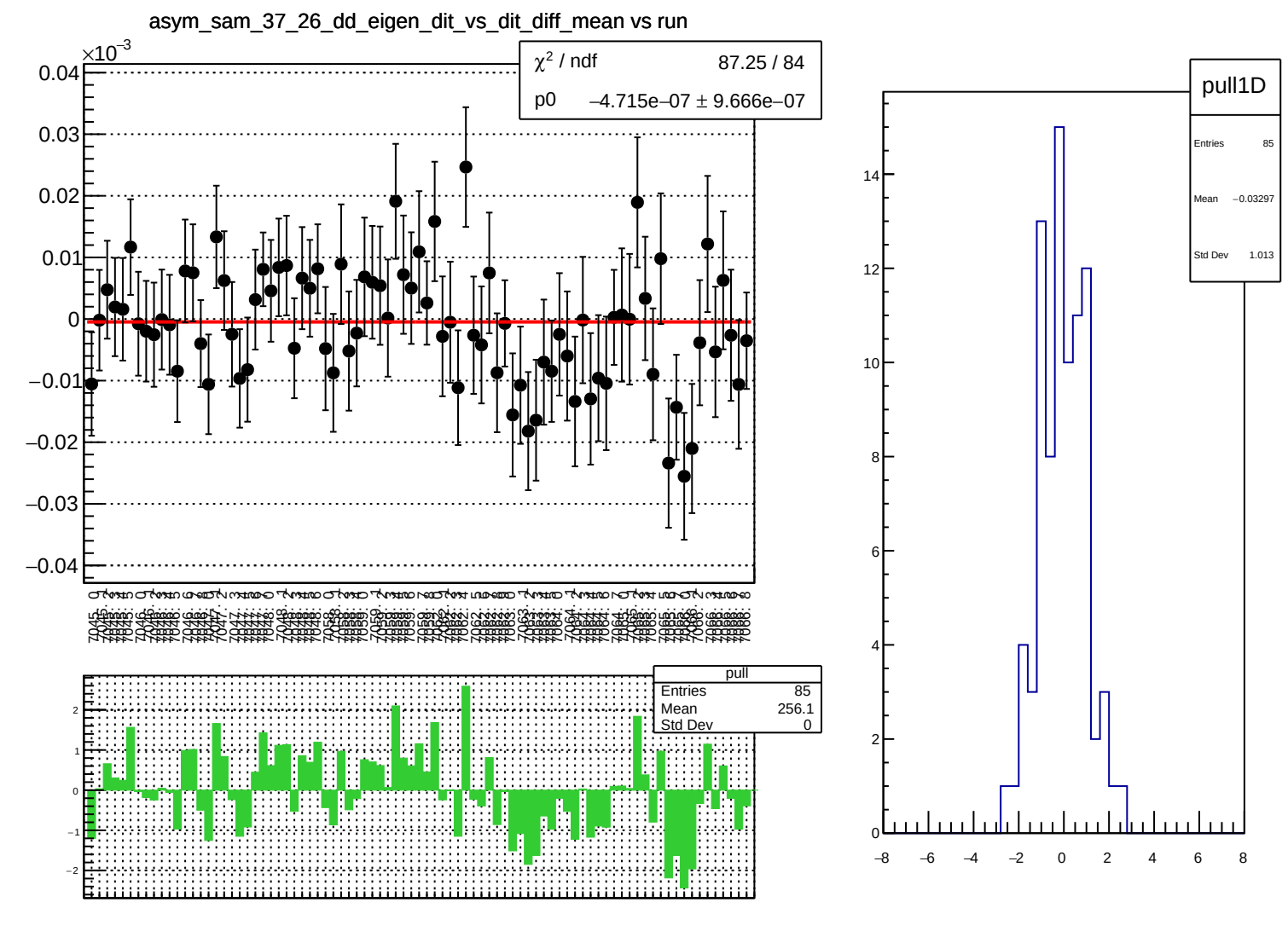

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.53 / 84
p0 −0.04143 ± 0.02273
pull
Entries 85
Mean −109.2
Std Dev 0
pull1D
Entries 85
Mean 0.0131
Std Dev 0.8846

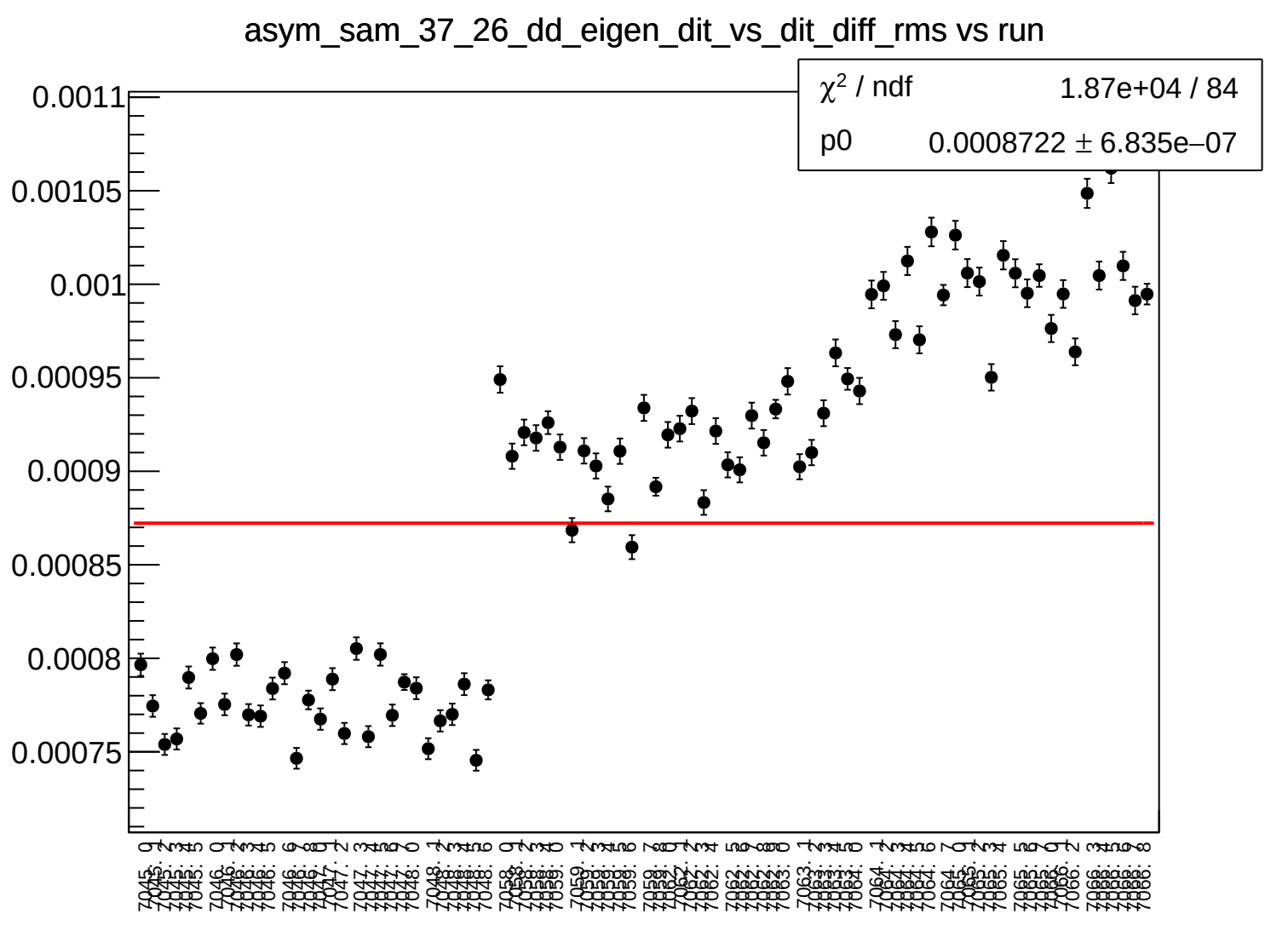

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.023e+04 / 84
p0 20.12 ± 0.01607
34
32
30
28
26
24
22
20
18
16
14
12

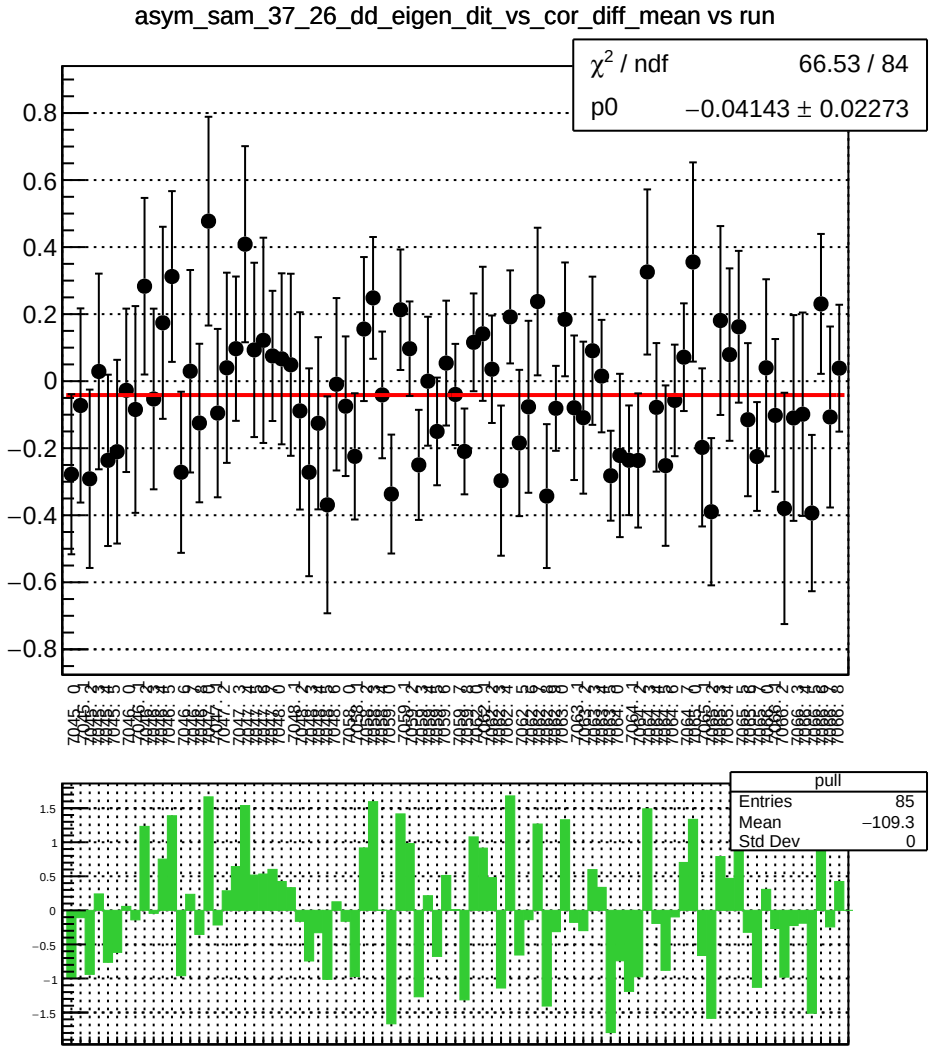

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.53 / 84
p0 −0.04143 ± 0.02273
pull
Entries 85
Mean −109.2
Std Dev 0

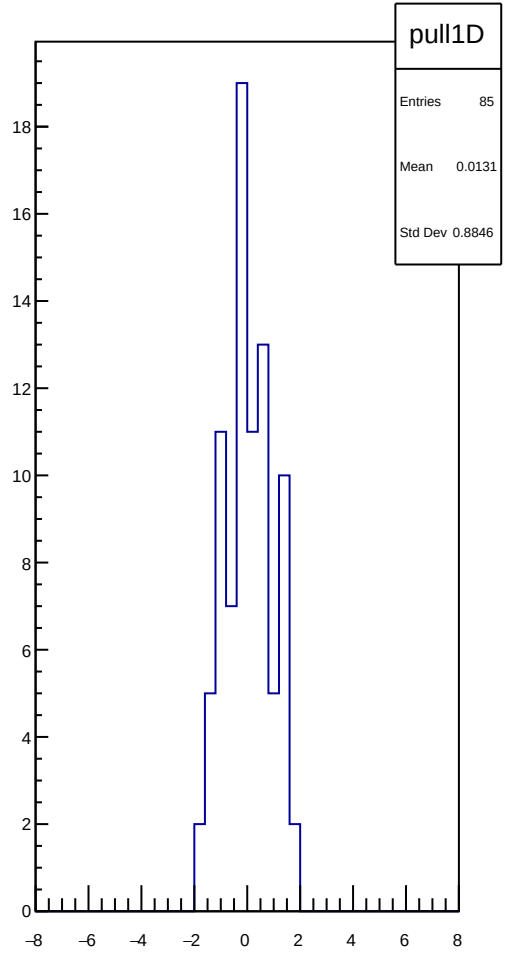

pull1D
Entries 85
Mean 0.0131
Std Dev 0.8846

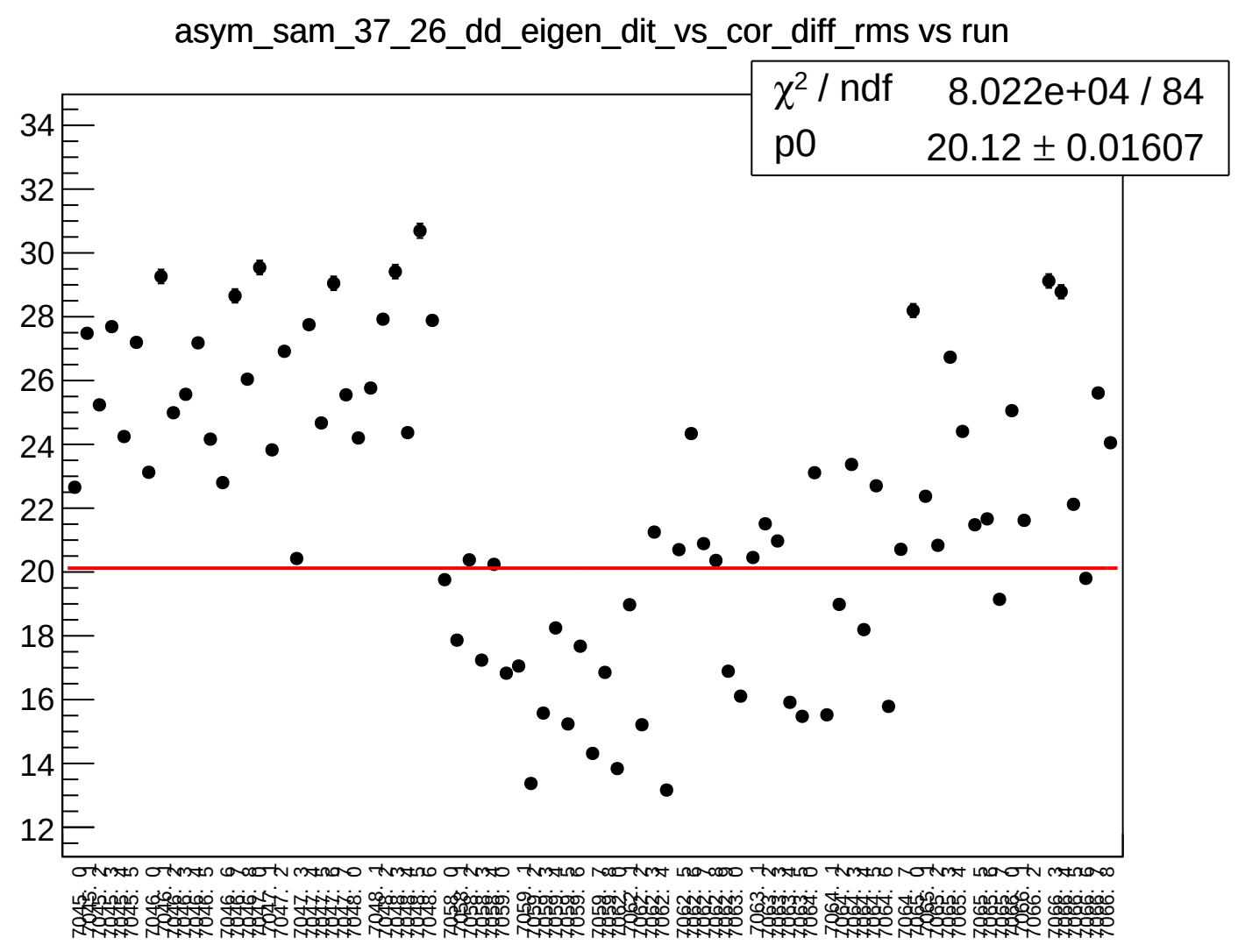

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.023e+04 / 84
p0 20.12 ± 0.01607
34
32
30
28
26
24
22
20
18
16
14
12

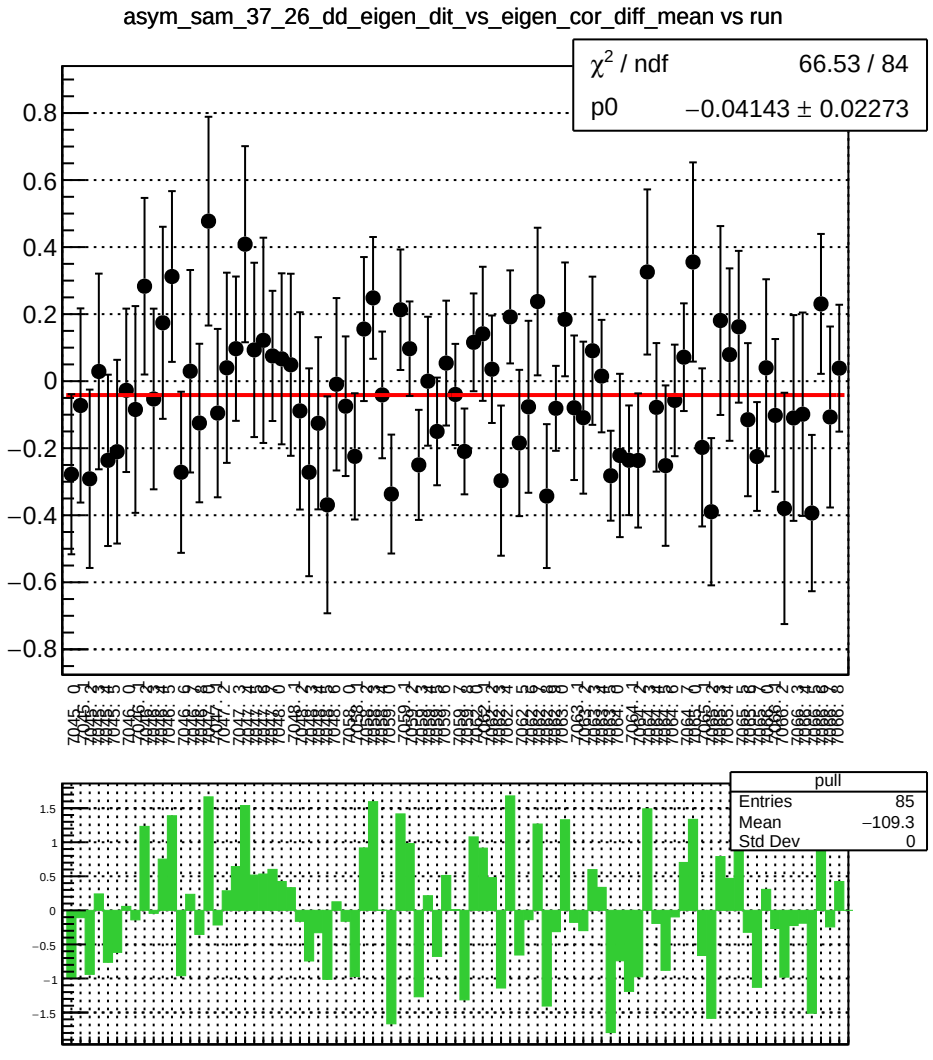

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.25 / 84
p0 −4.715e−07 ± 9.666e−07
pull
Entries 85
Mean 256.1
Std Dev 0
pull1D
Entries 85
Mean −0.03297
Std Dev 1.013

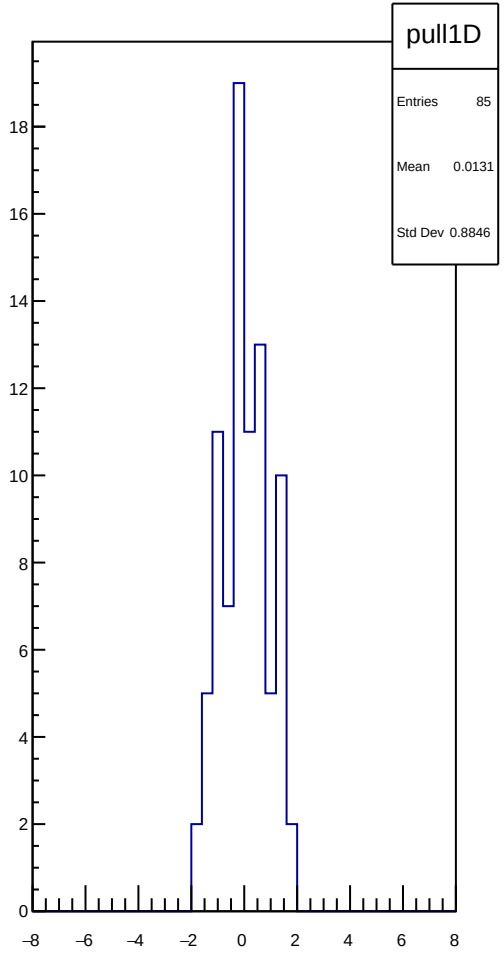

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.87e+04 / 84
p0 0.0008722 ± 6.835e−07
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

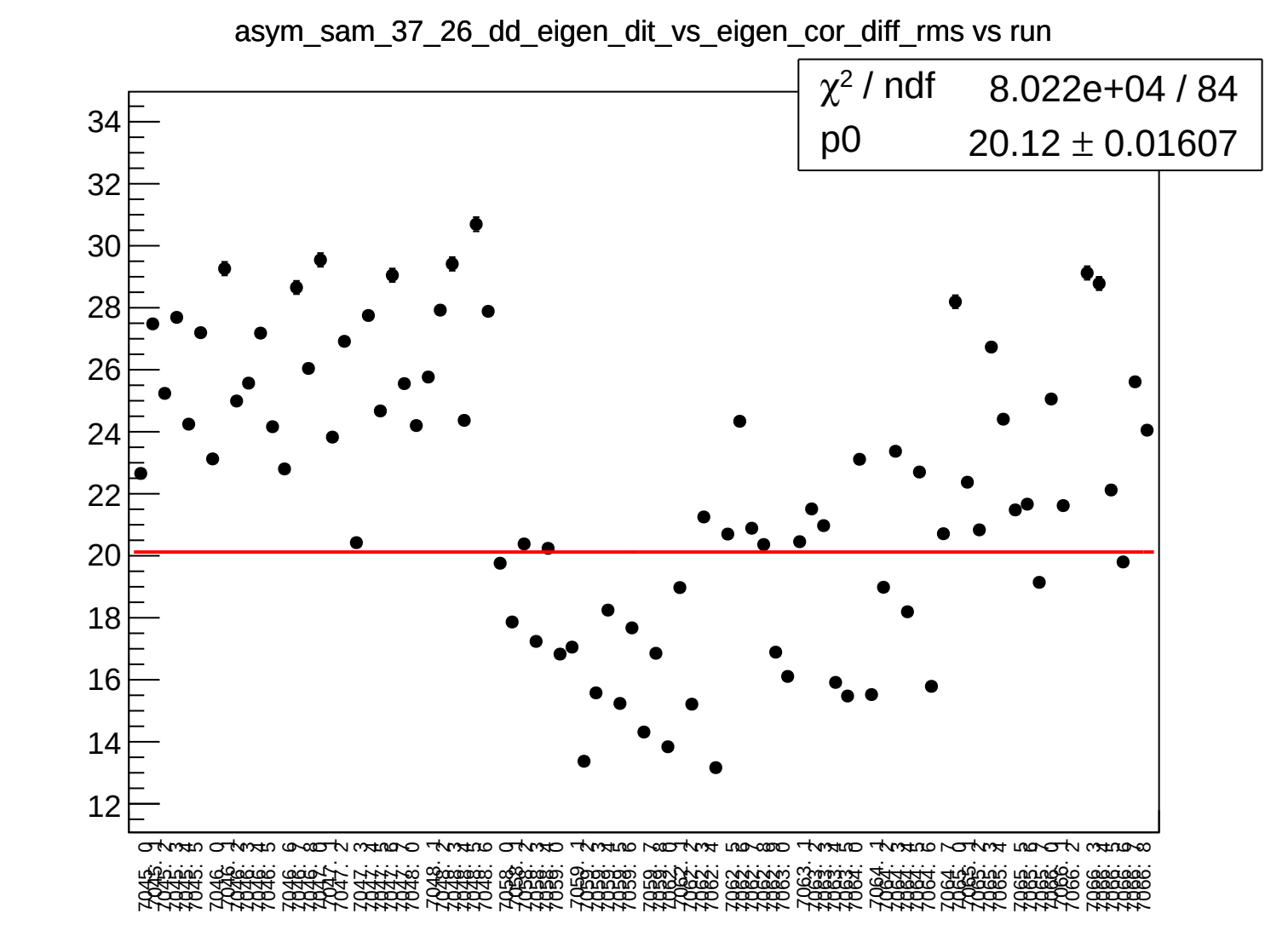

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.53 / 84
p0 −0.04143 ± 0.02273
pull
Entries 85
Mean −109.3
Std Dev 0

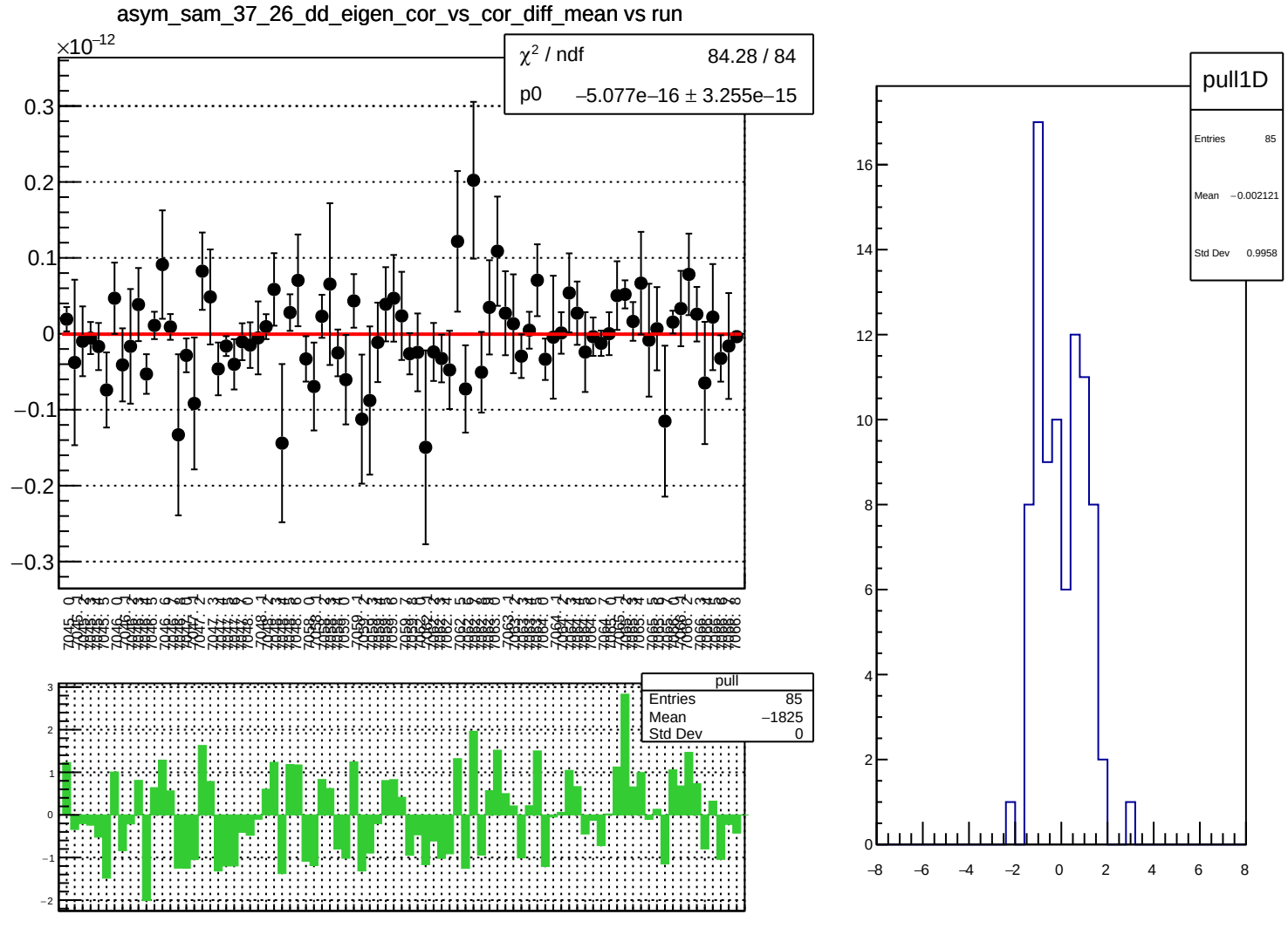

pull1D
Entries 85
Mean 0.0131
Std Dev 0.8846

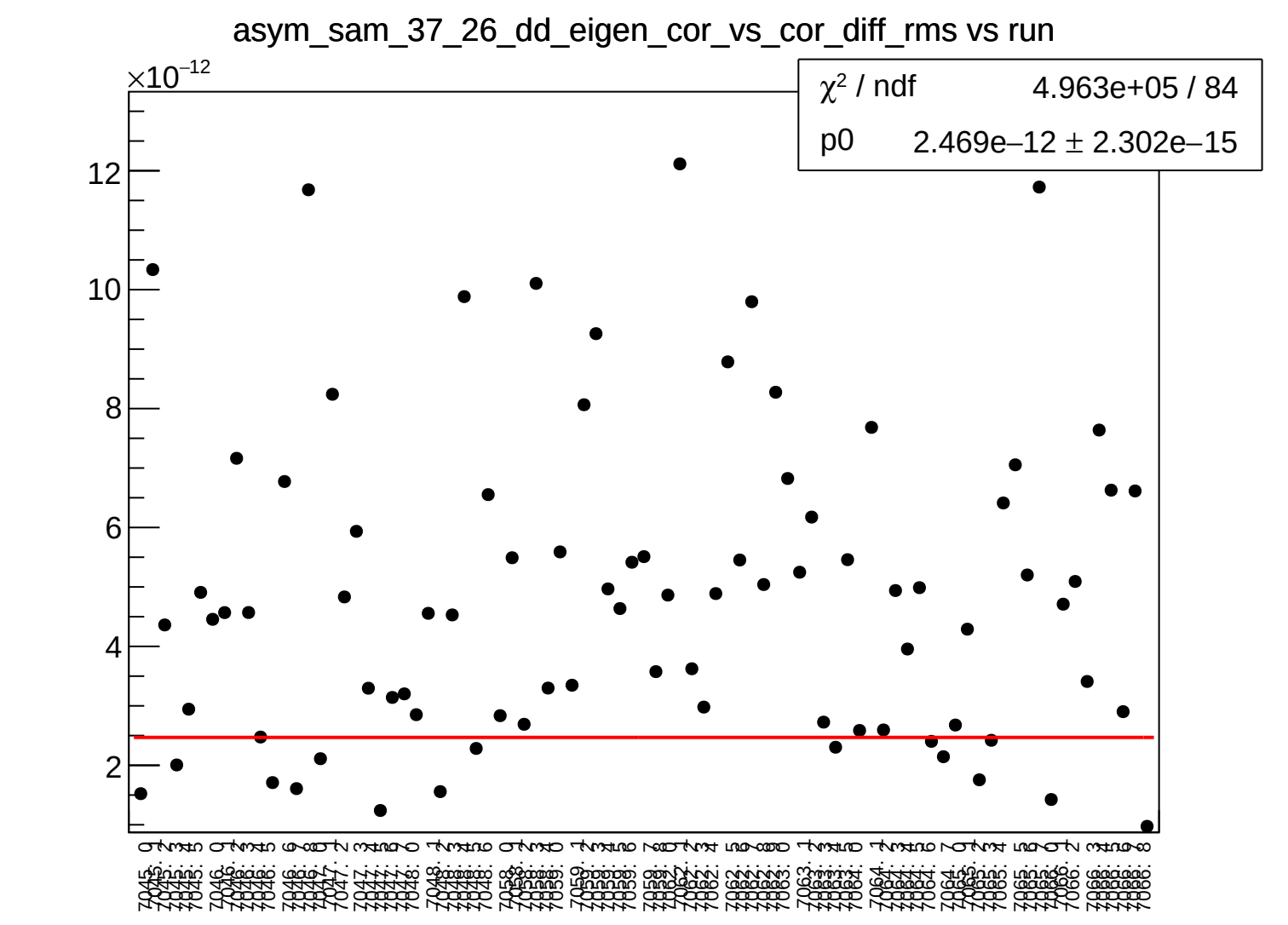

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.022e+04 / 84
p0 20.12 ± 0.01607
34
32
30
28
26
24
22
20
18
16
14
12

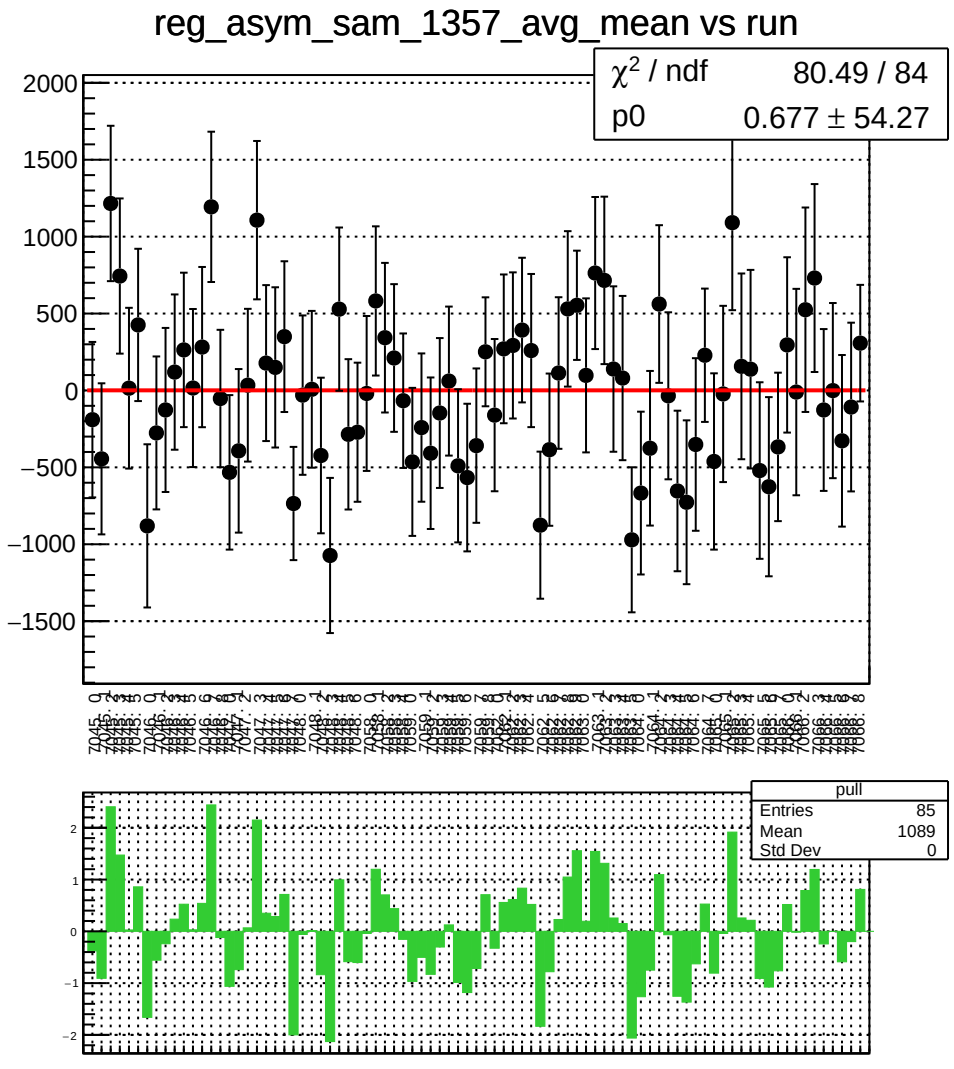

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.53 / 84
p0 −0.04143 ± 0.02273
pull
Entries 85
Mean −109.3
Std Dev 0

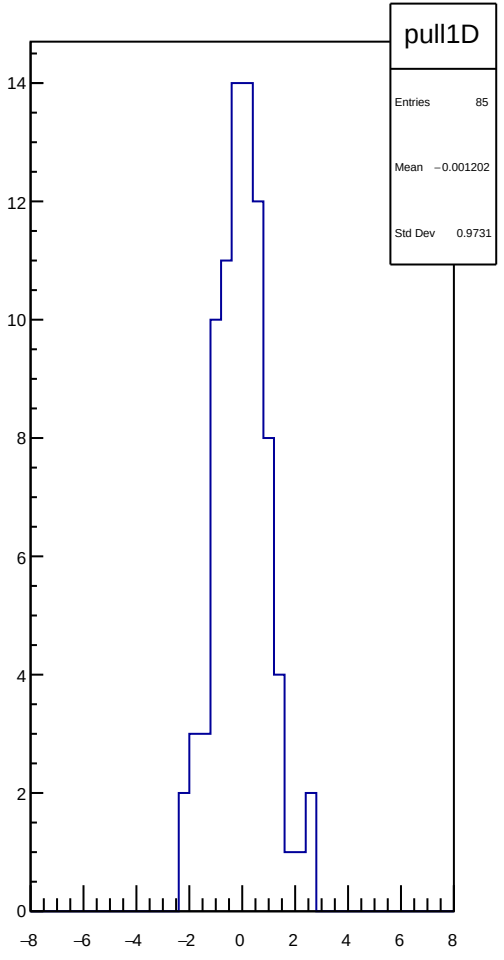

pull1D
Entries 85
Mean 0.0131
Std Dev 0.8846

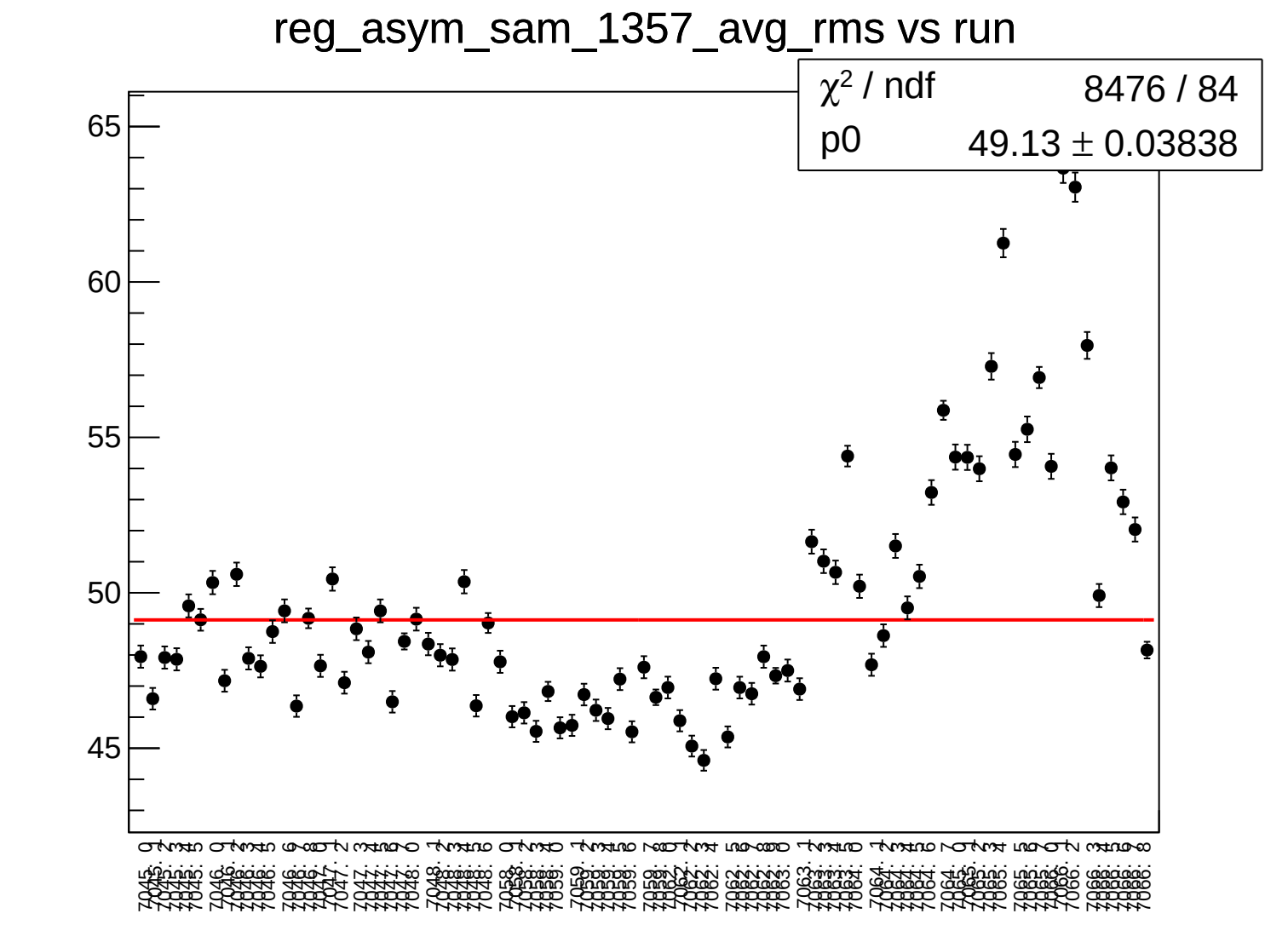

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.022e+04 / 84
p0 20.12 ± 0.01607
34
32
30
28
26
24
22
20
18
16
14
12

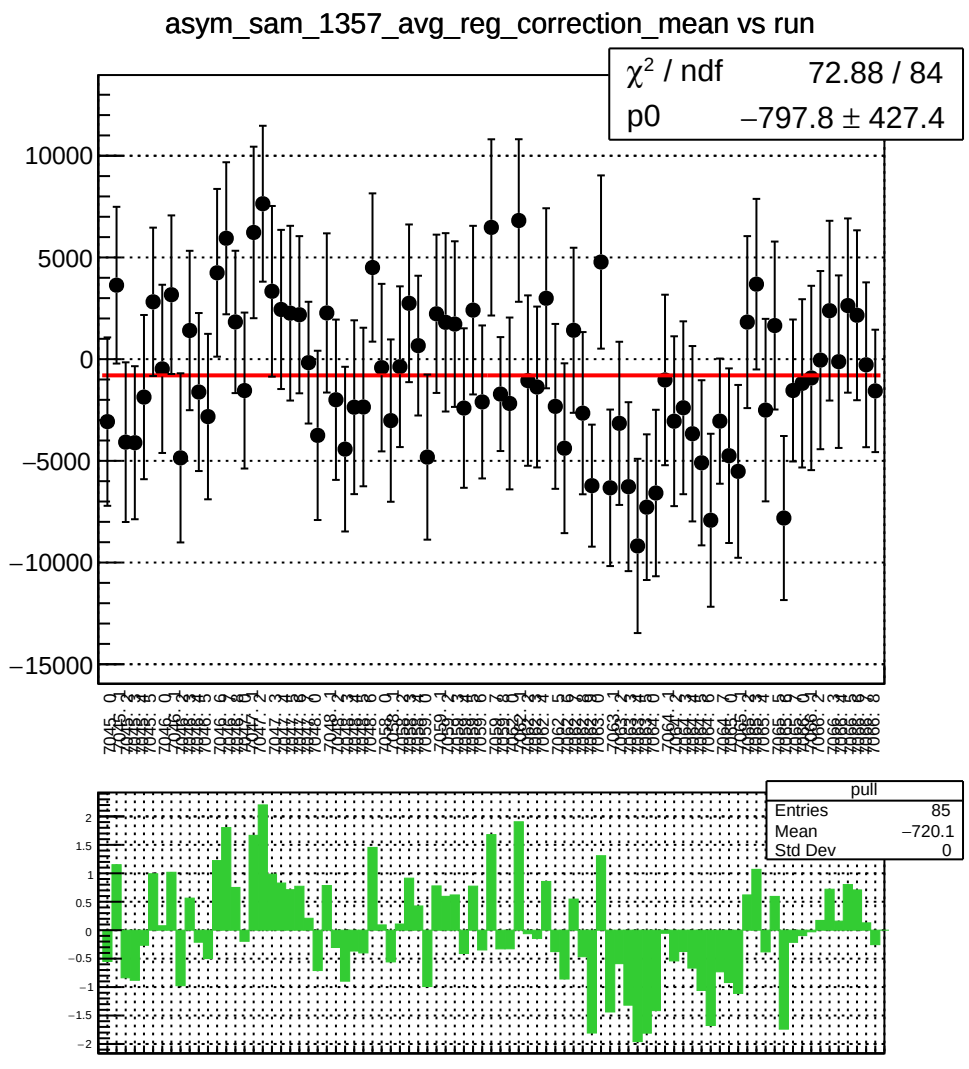

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.28 / 84
p0 −5.077e−16 ± 3.255e−15
pull
Entries 85
Mean −1825
Std Dev 0
pull1D
Entries 85
Mean −0.002121
Std Dev 0.9958

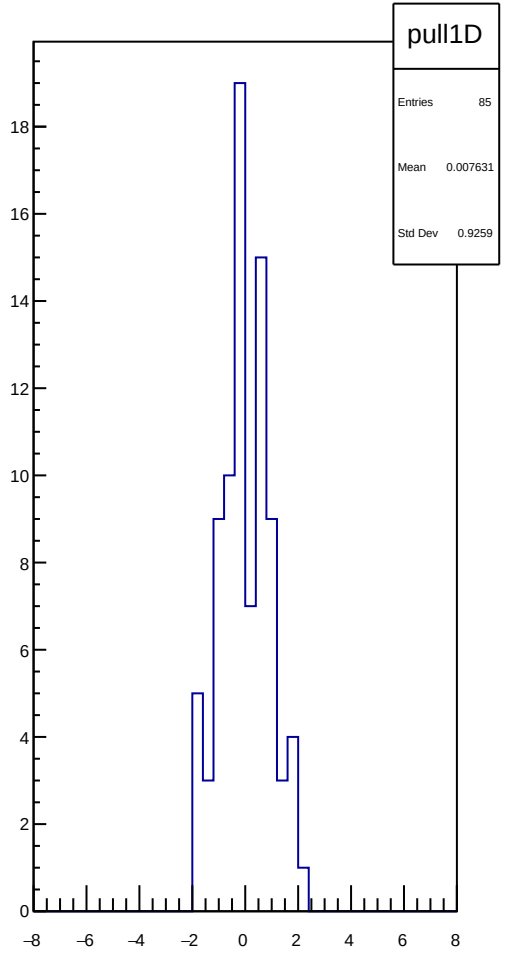

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.963e+05 / 84
p0 2.469e−12 ± 2.302e−15
12
10
8
6
4
2

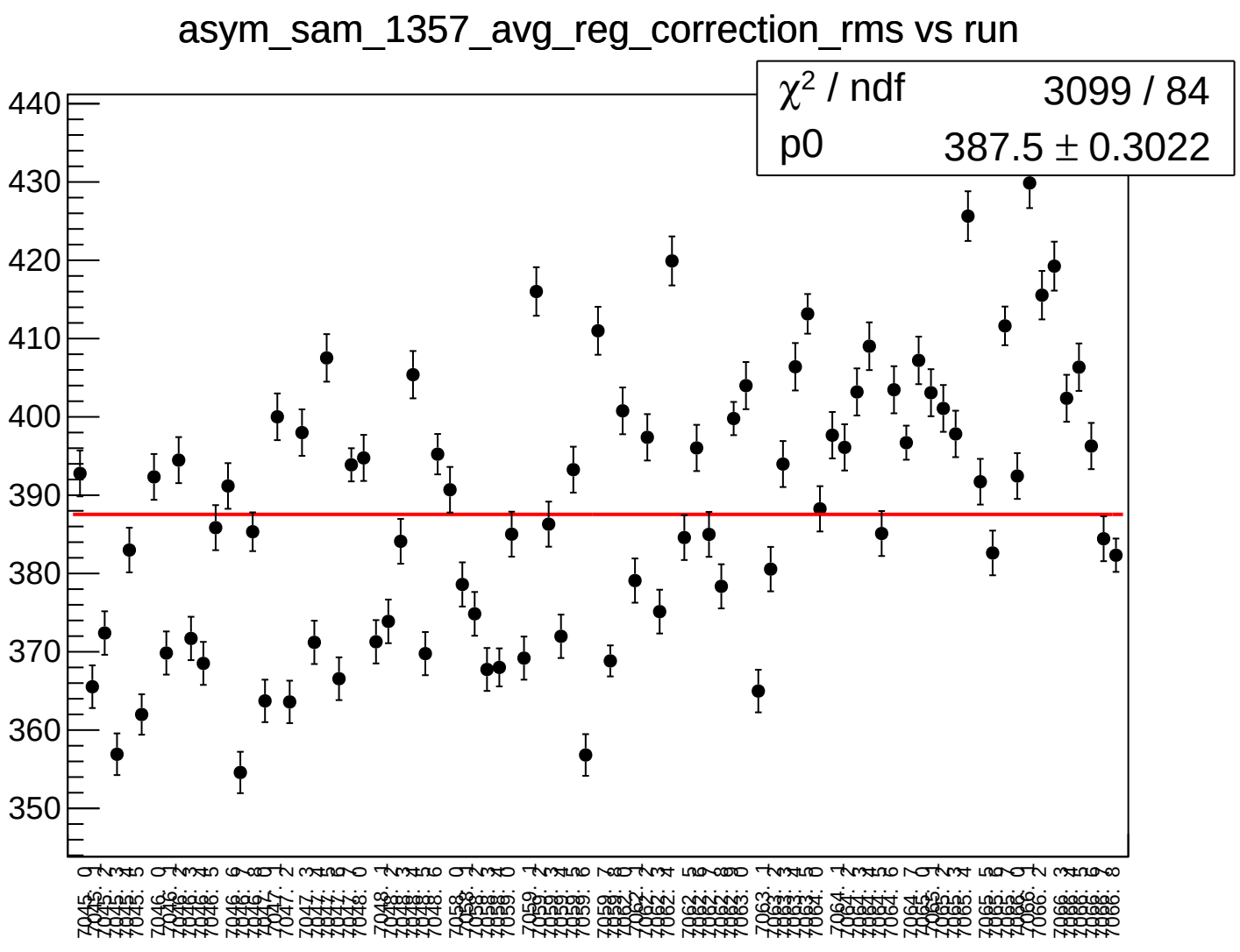

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 80.49 / 84
p0 0.677 ± 54.27
pull
Entries 85
Mean 1089
Std Dev 0

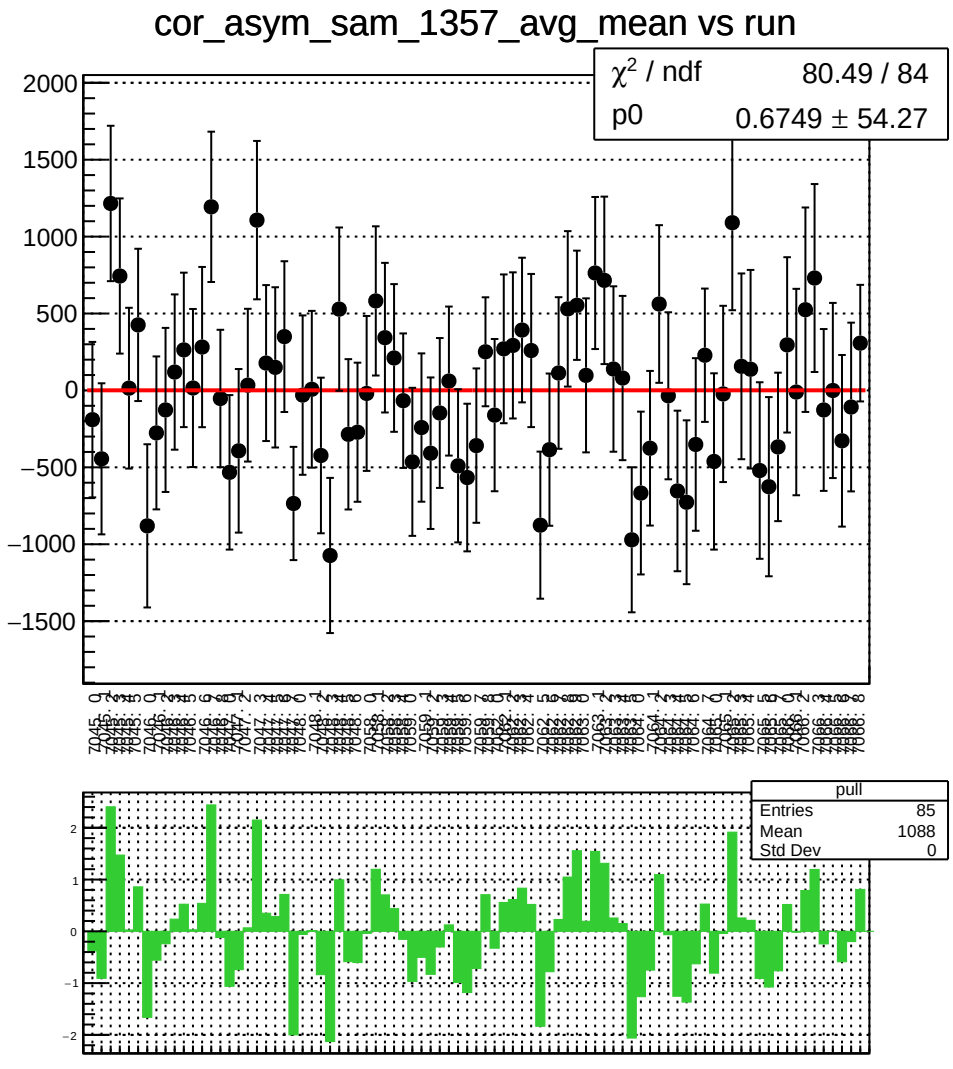

pull1D
Entries 85
Mean −0.001202
Std Dev 0.9731

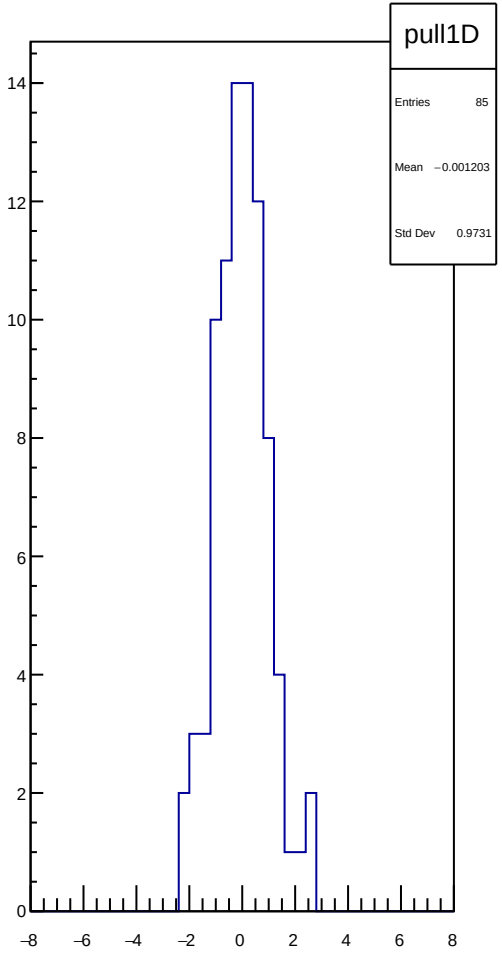

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 8476 / 84
p0 49.13 ± 0.03838
65
60
55
50
45

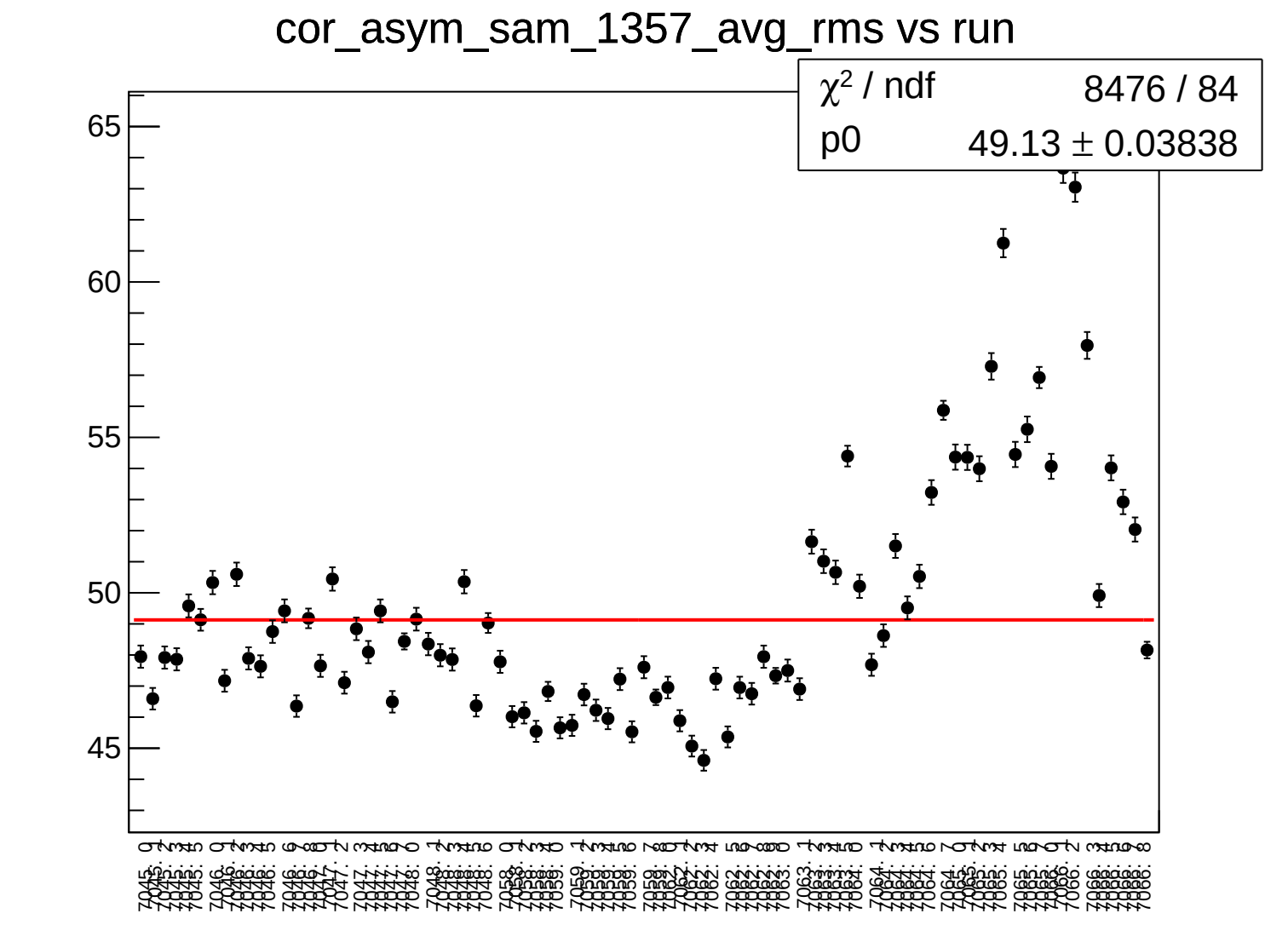

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 72.88 / 84
p0 −797.8 ± 427.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −720.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

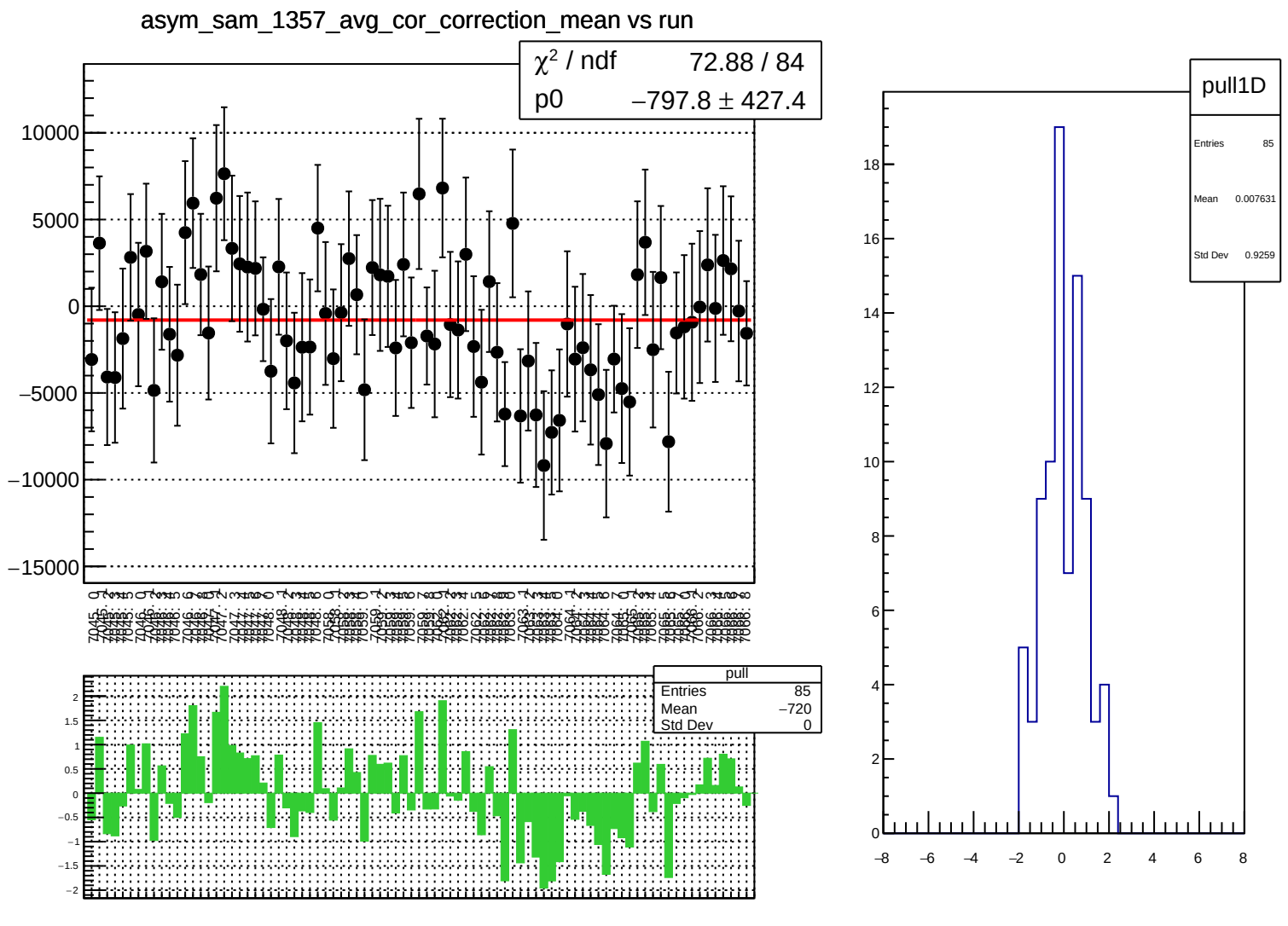

pull1D
Entries 85
Mean 0.007631
Std Dev 0.9259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

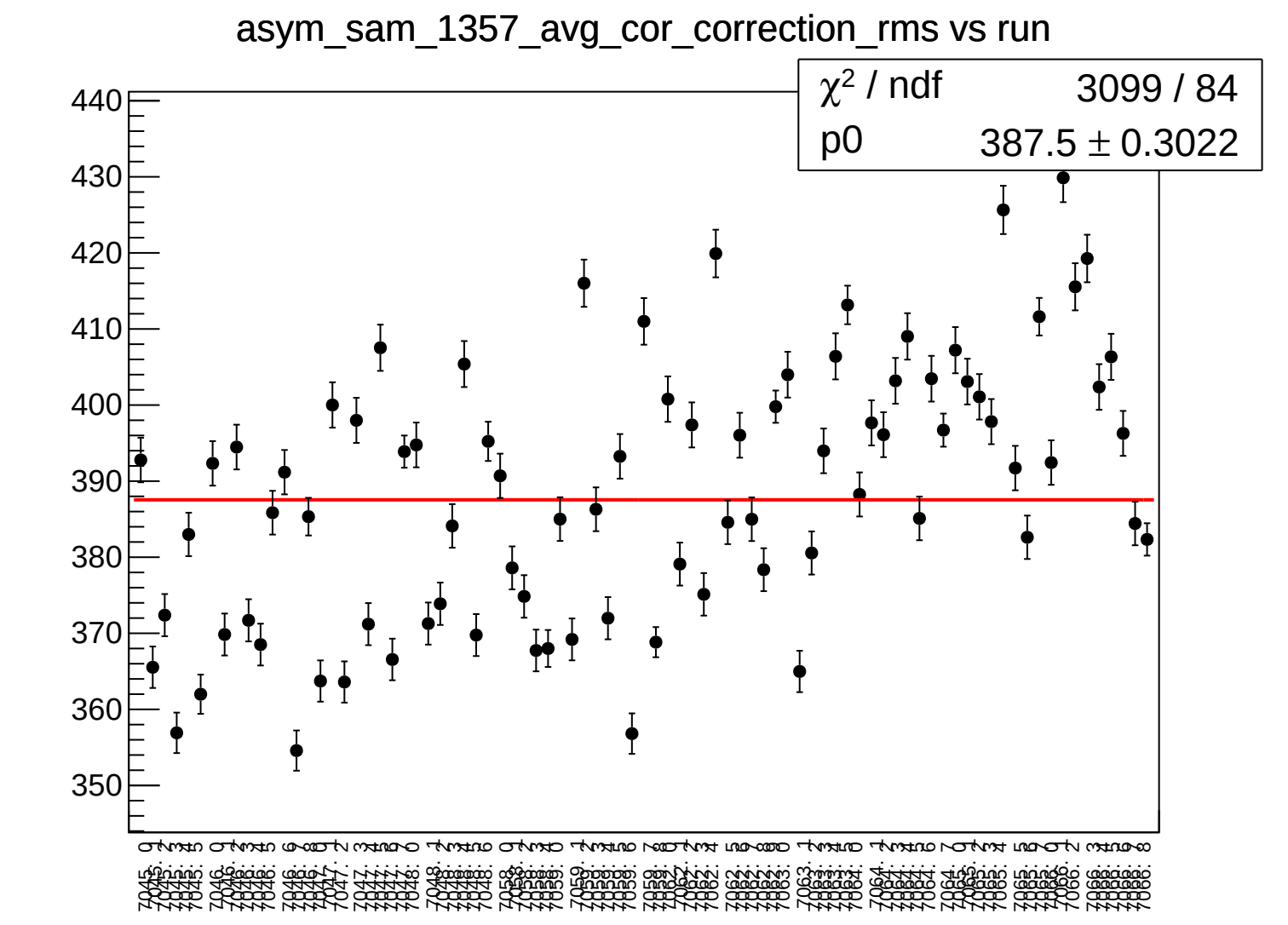

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3099 / 84
p0 387.5 ± 0.3022
440
430
420
410
400
390
380
370
360
350

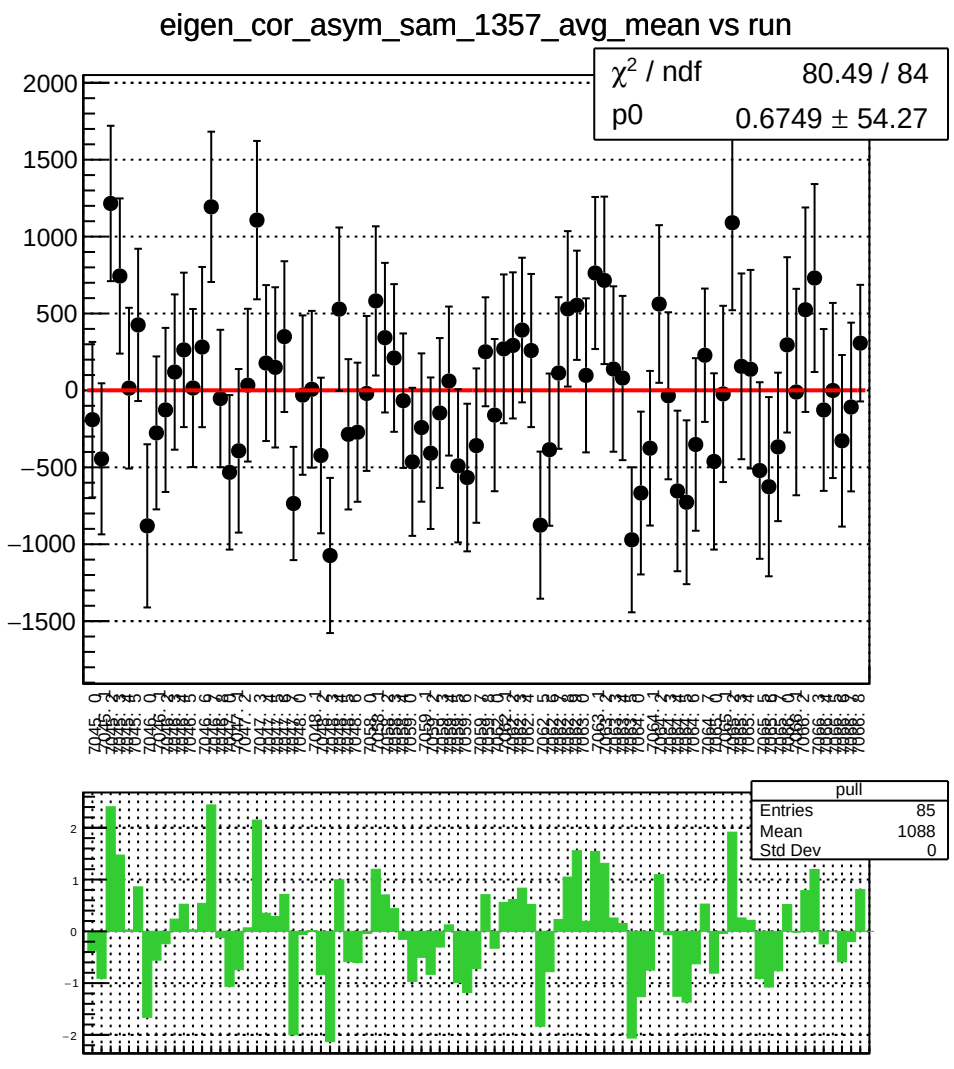

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 80.49 / 84
p0 0.6749 ± 54.27
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 1088
Std Dev 0
2
1
0
−1
−2

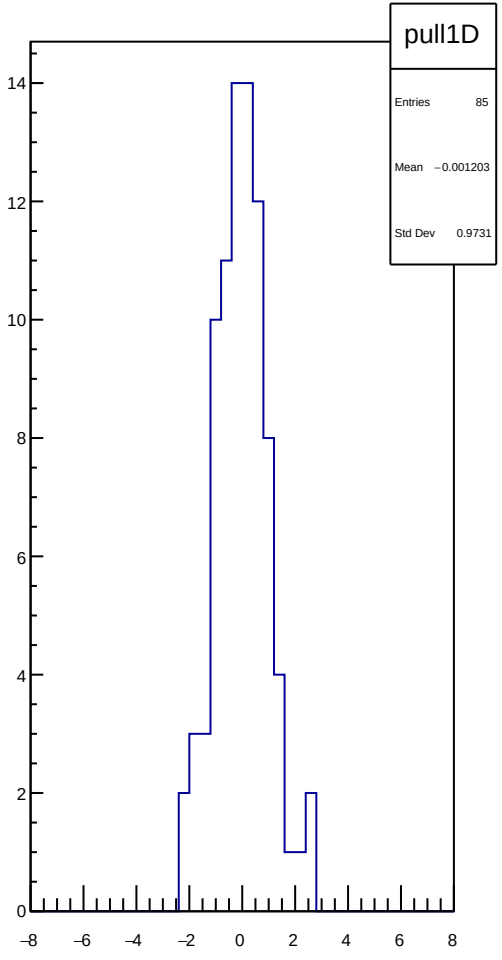

pull1D
Entries 85
Mean −0.001203
Std Dev 0.9731
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

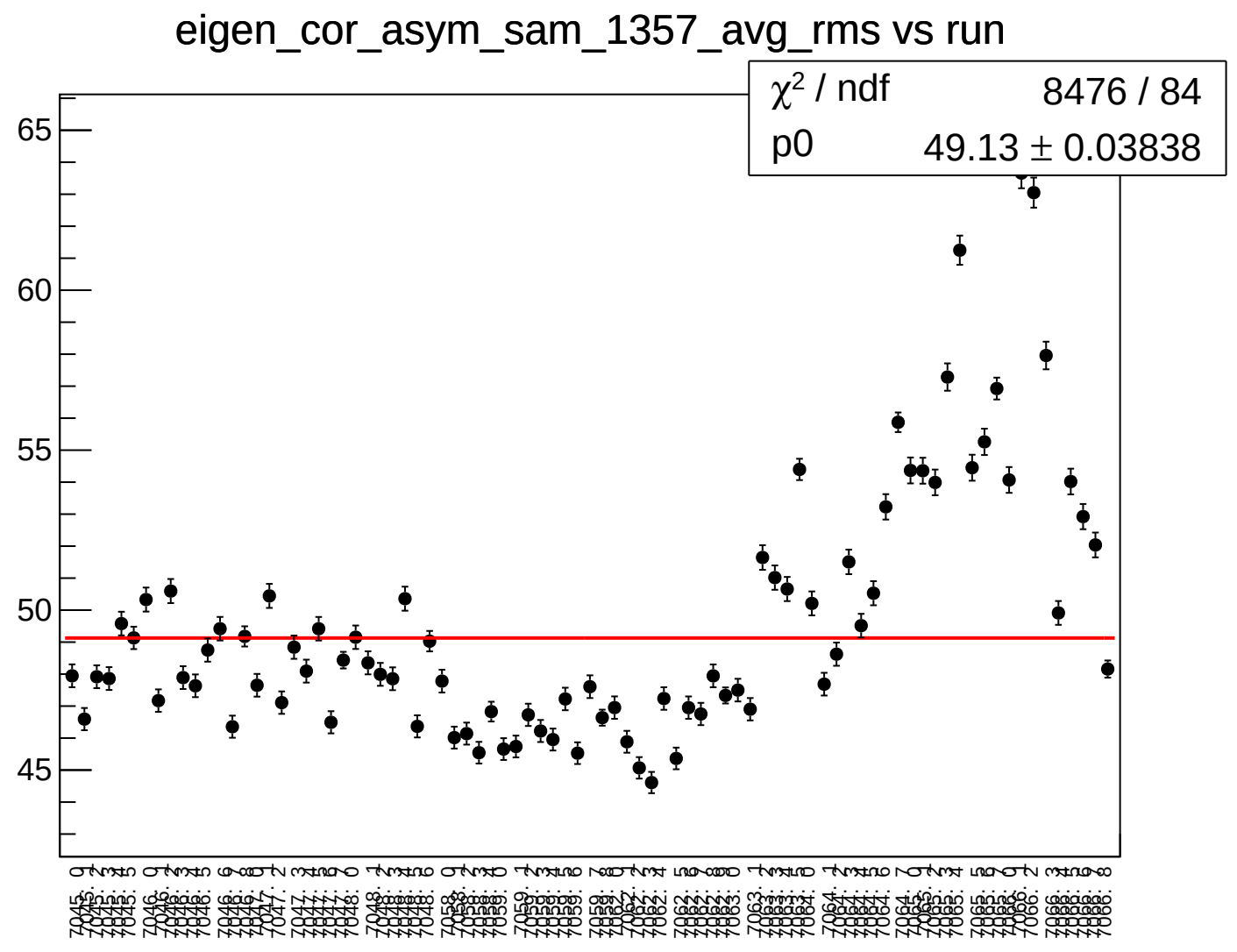

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 8476 / 84
p0 49.13 ± 0.03838
65
60
55
50
45

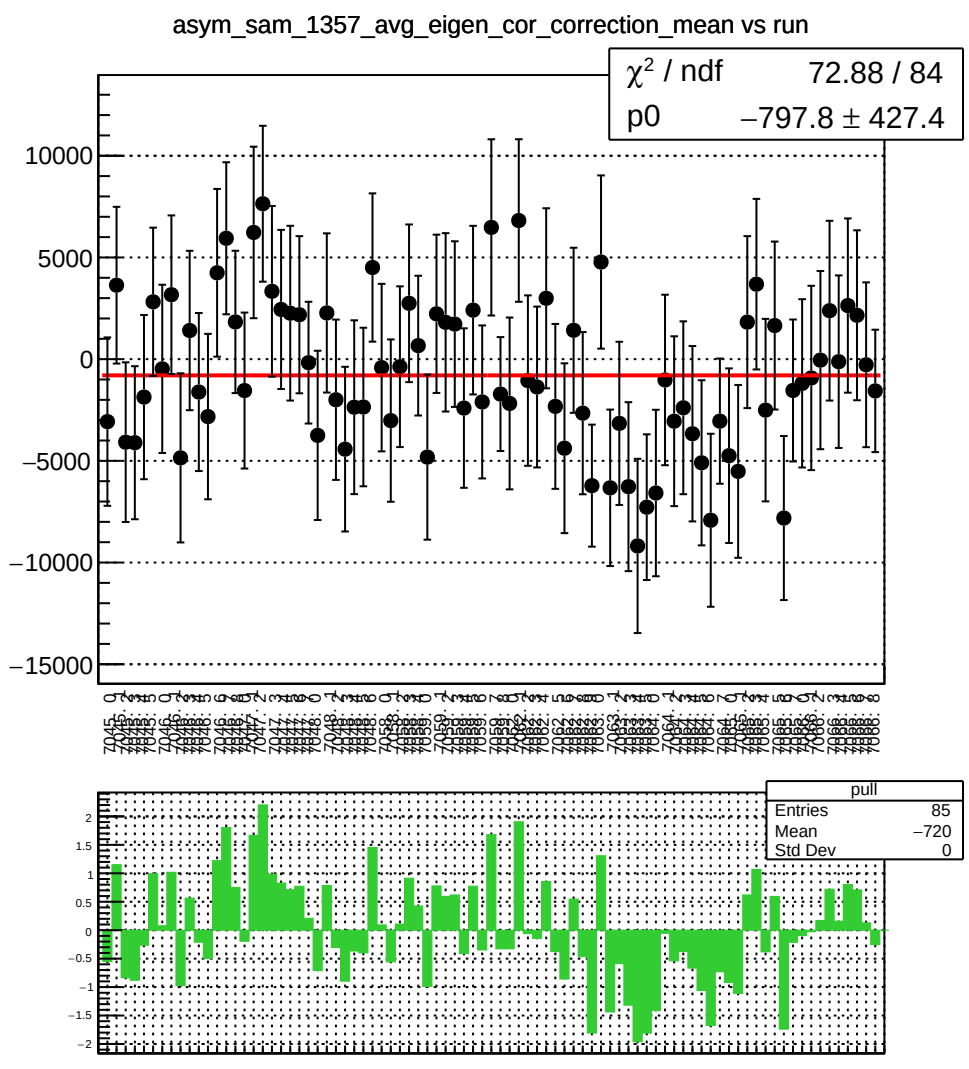

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 72.88 / 84
p0 −797.8 ± 427.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −720
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.007631
Std Dev 0.9259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

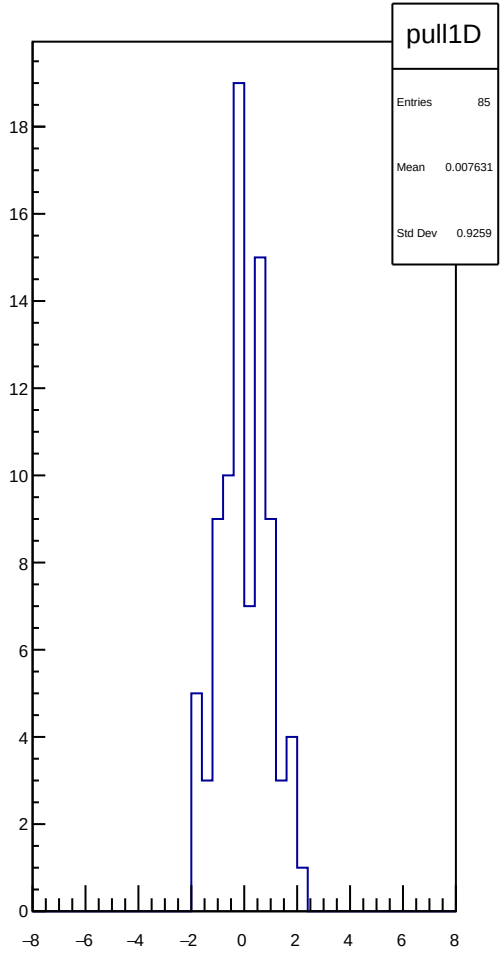

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3099 / 84
p0 387.5 ± 0.3022
440
430
420
410
400
390
380
370
360
350

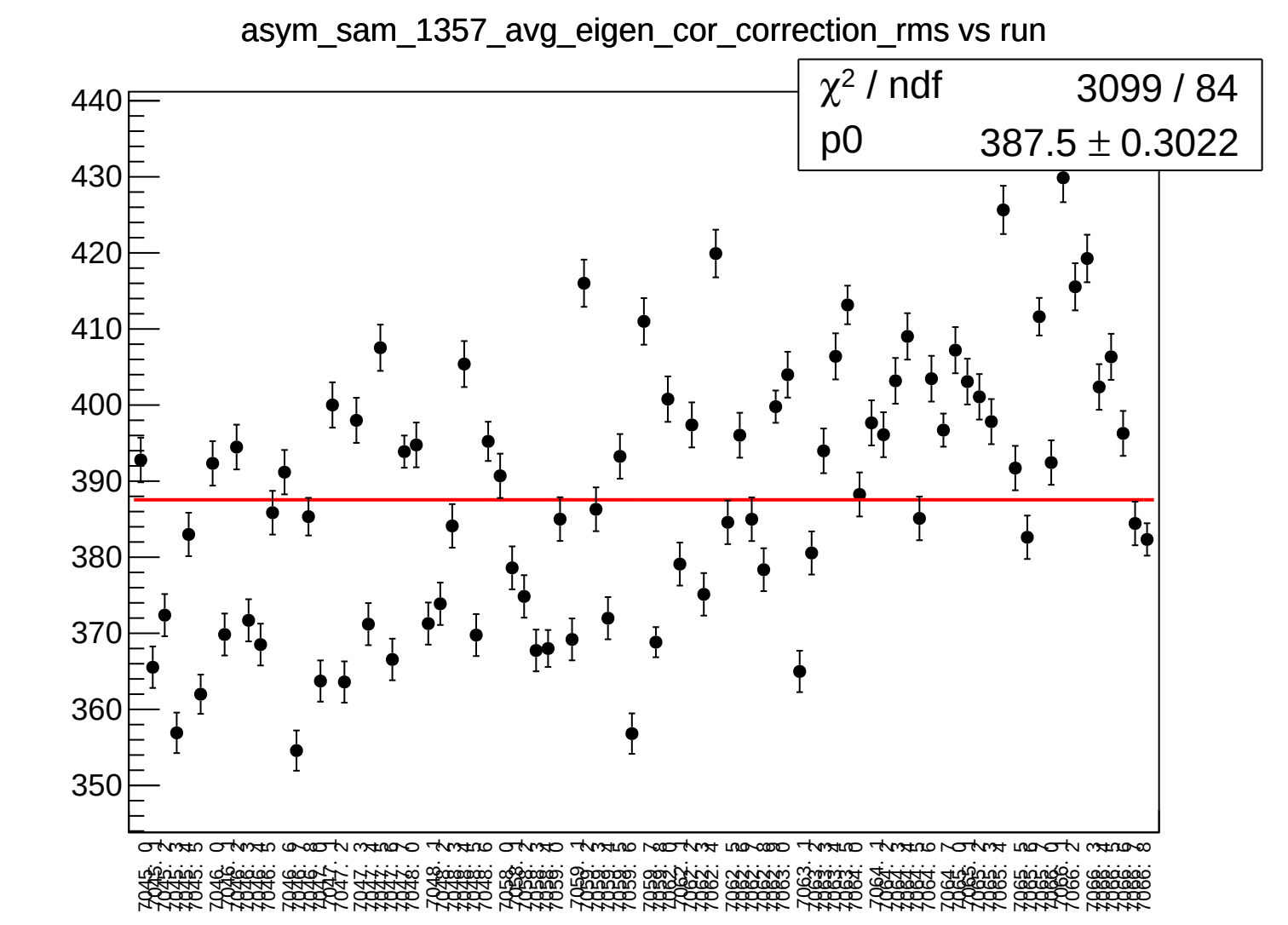

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 80.49 / 84
p0 0.6749 ± 54.27
pull
Entries 85
Mean 1088
Std Dev 0

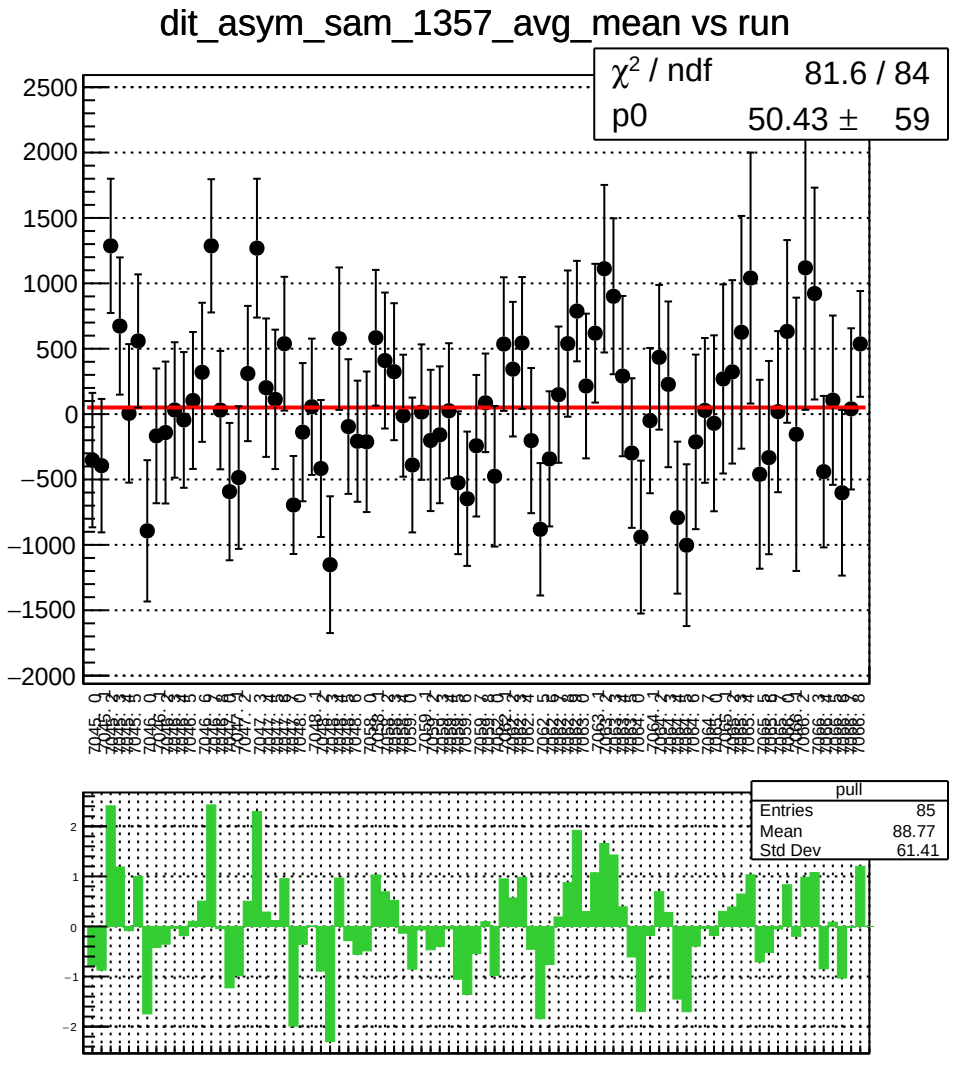

pull1D
Entries 85
Mean −0.001203
Std Dev 0.9731

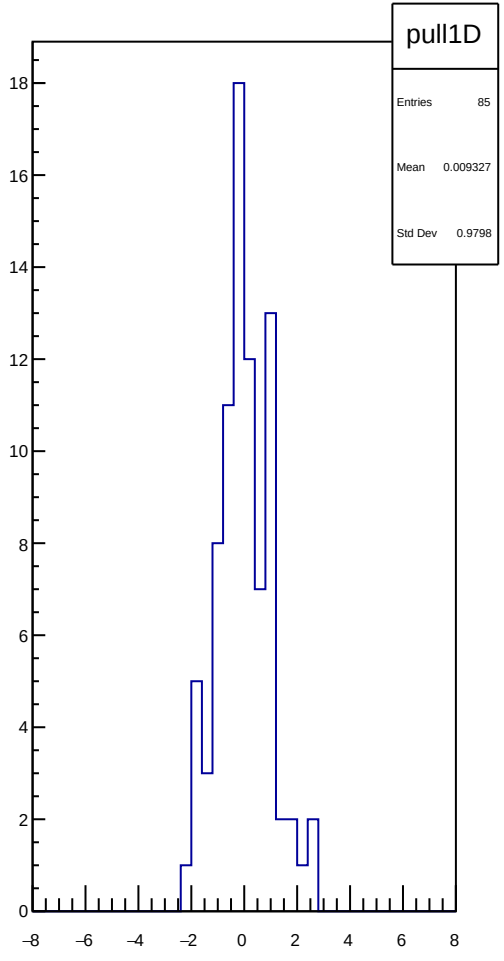

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 8476 / 84
p0 49.13 ± 0.03838
65
60
55
50
45

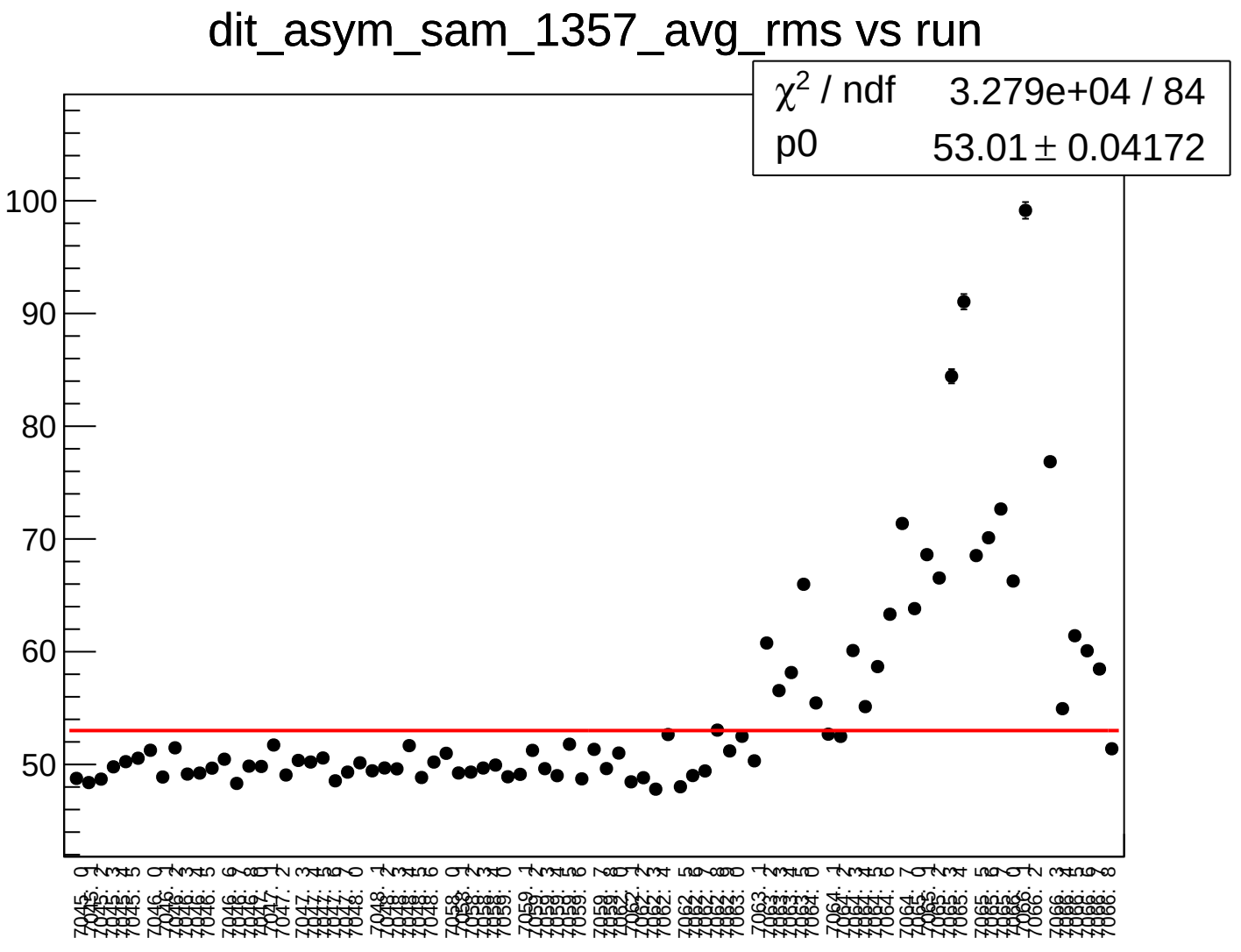

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.88 / 84
p0 −797.8 ± 427.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −720
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

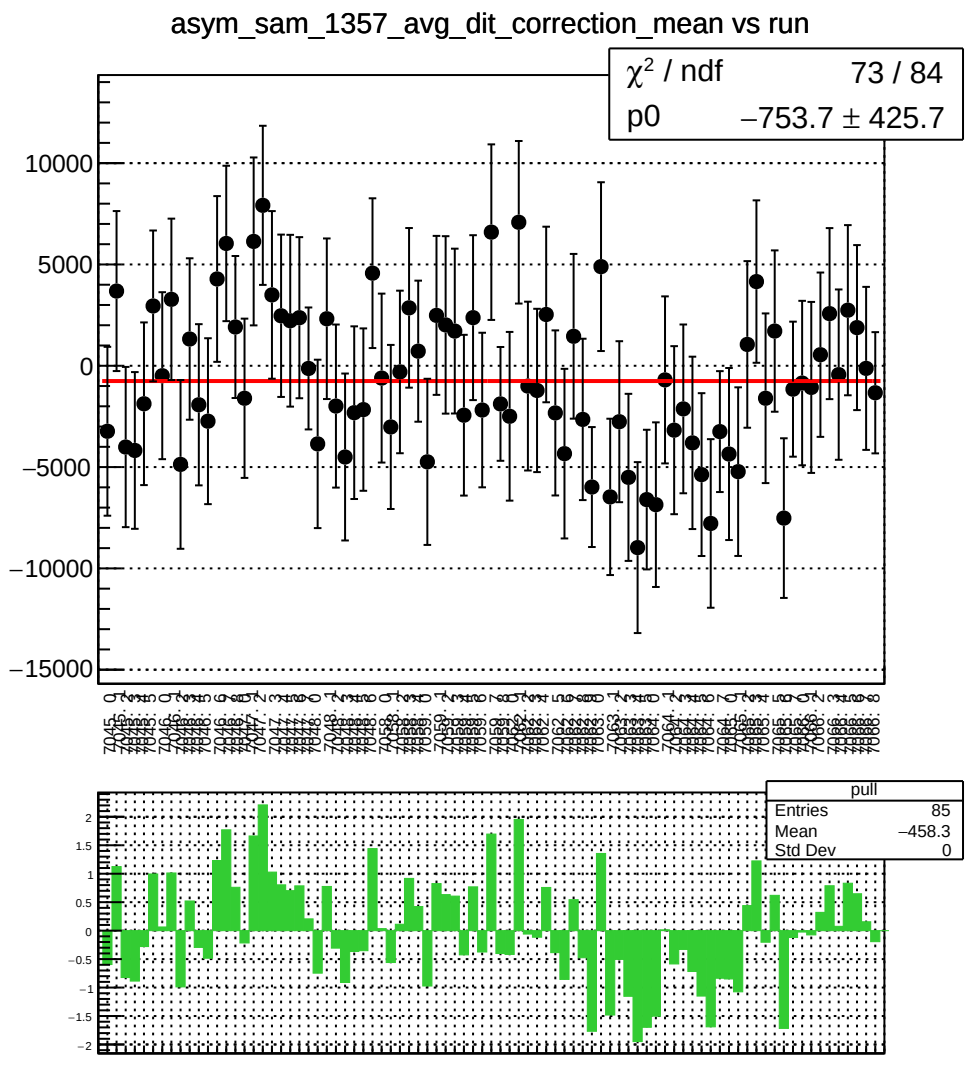

pull1D
Entries 85
Mean 0.007631
Std Dev 0.9259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

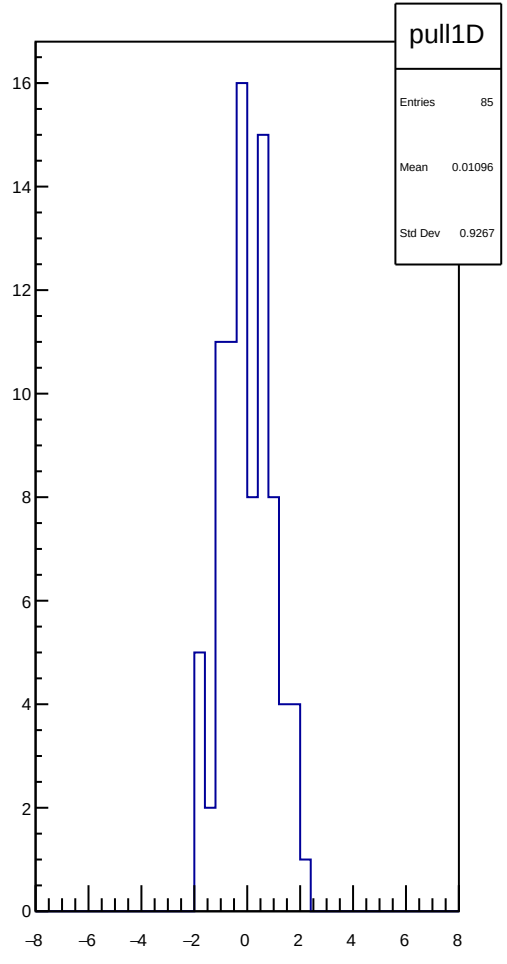

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3099 / 84
p0 387.5 ± 0.3022
440
430
420
410
400
390
380
370
360
350

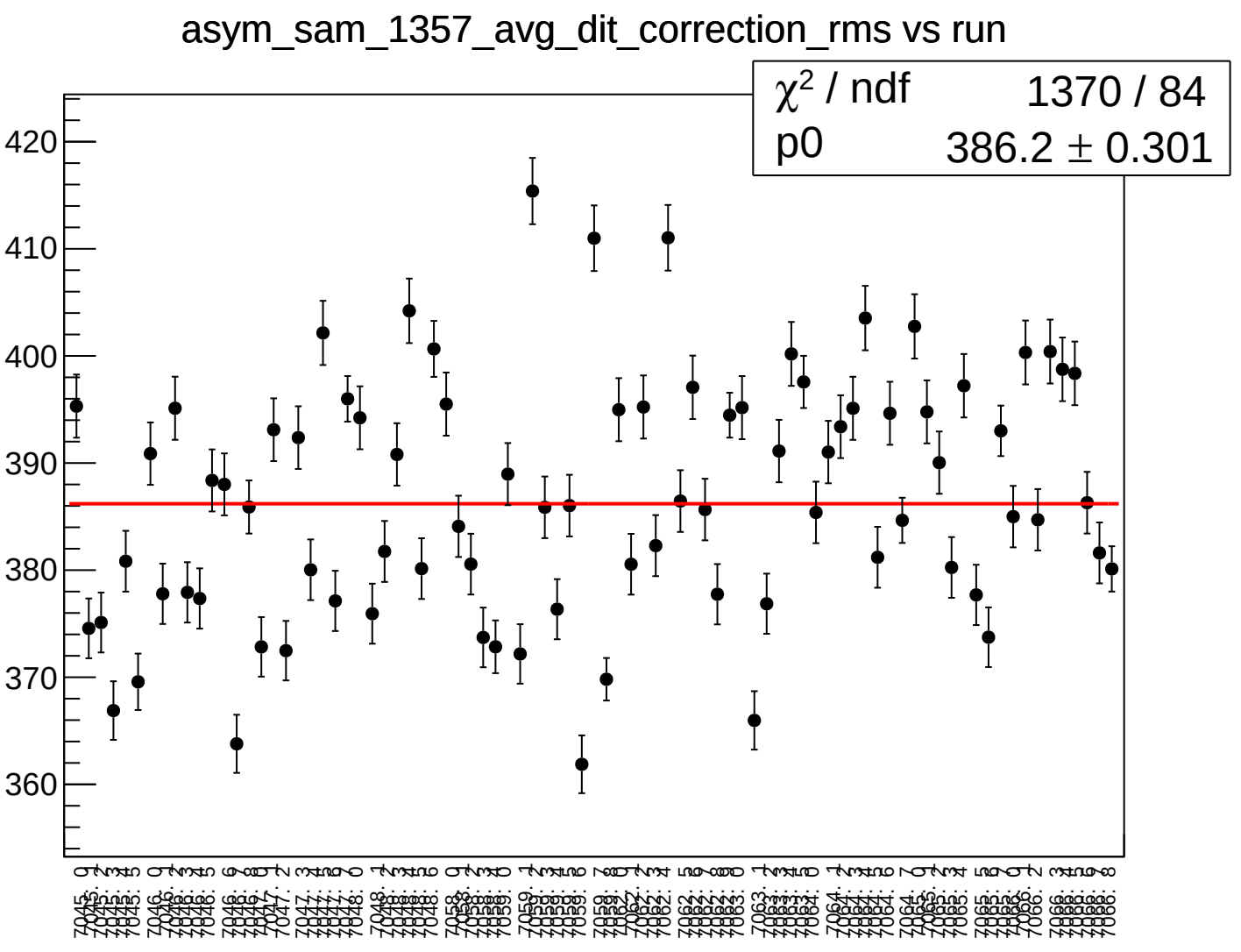

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.6 / 84
p0 50.43 ± 59
pull
Entries 85
Mean 88.77
Std Dev 61.41

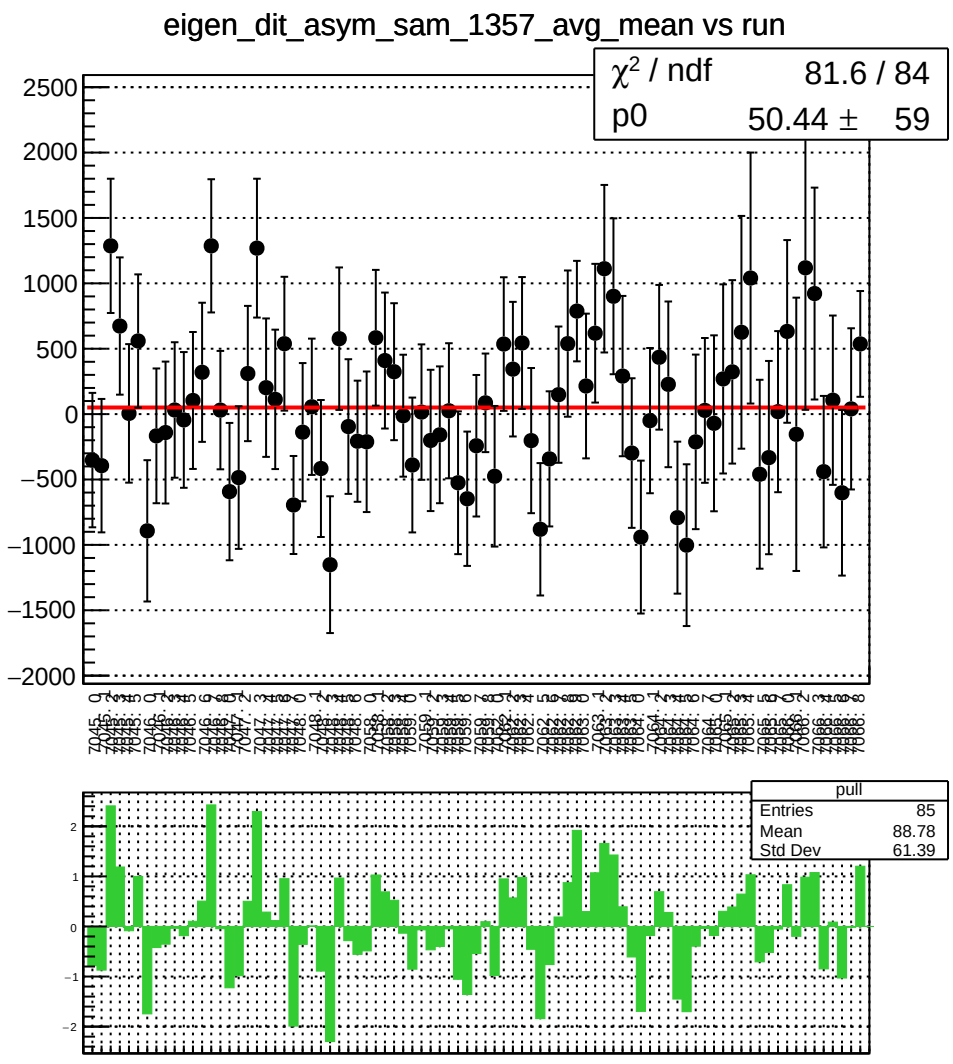

pull1D
Entries 85
Mean 0.009327
Std Dev 0.9798

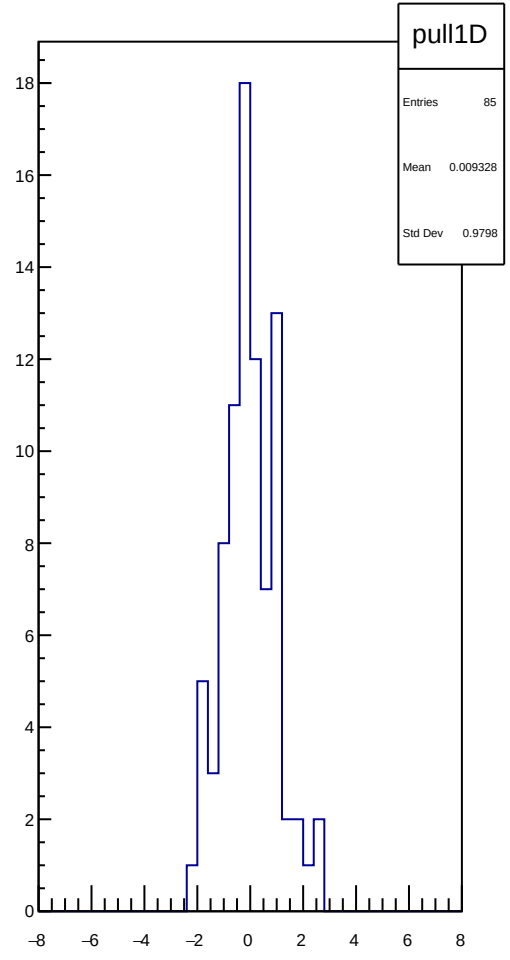

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.279e+04 / 84
p0 53.01 ± 0.04172
100
90
80
70
60
50

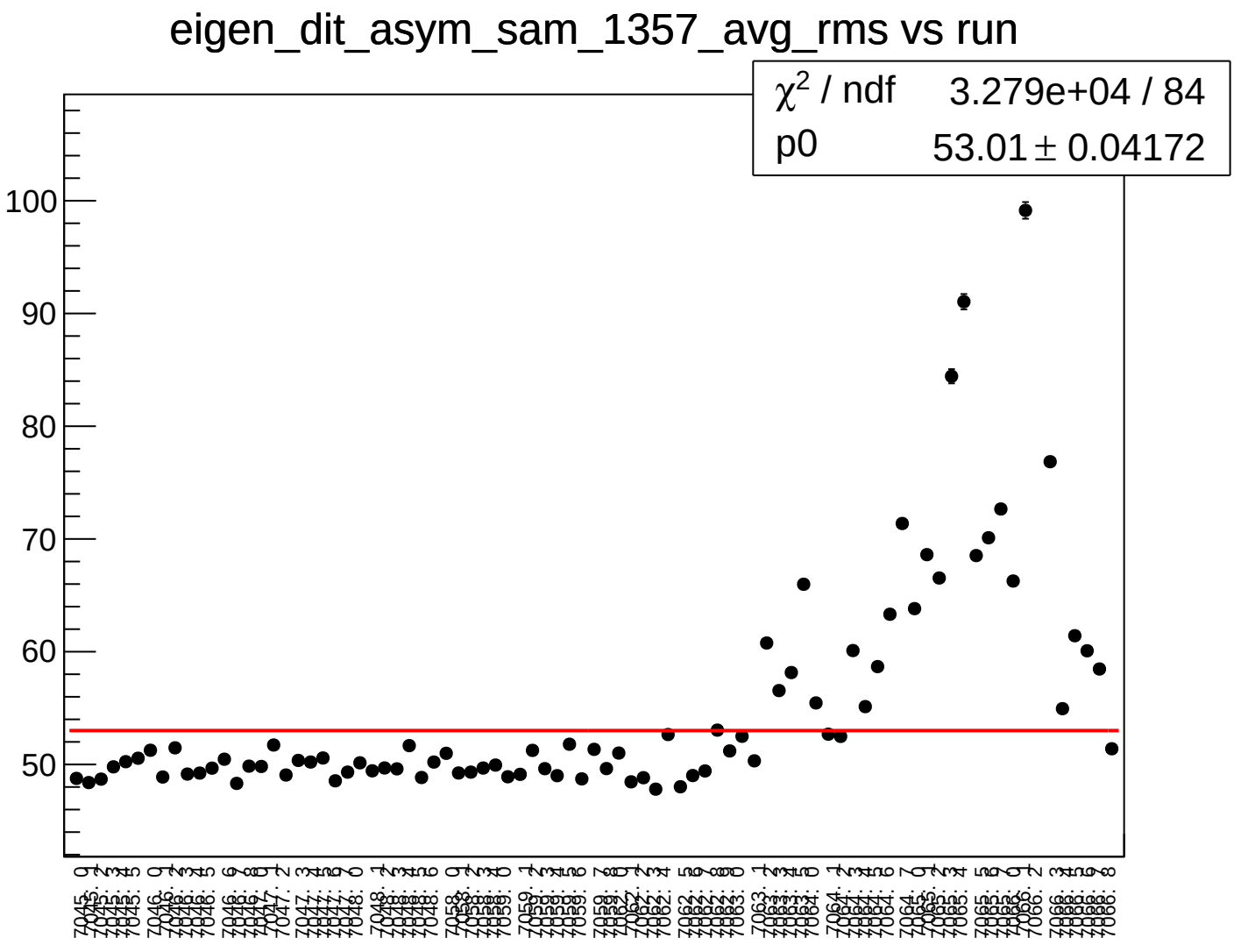

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 73 / 84
p0 −753.7 ± 425.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −458.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

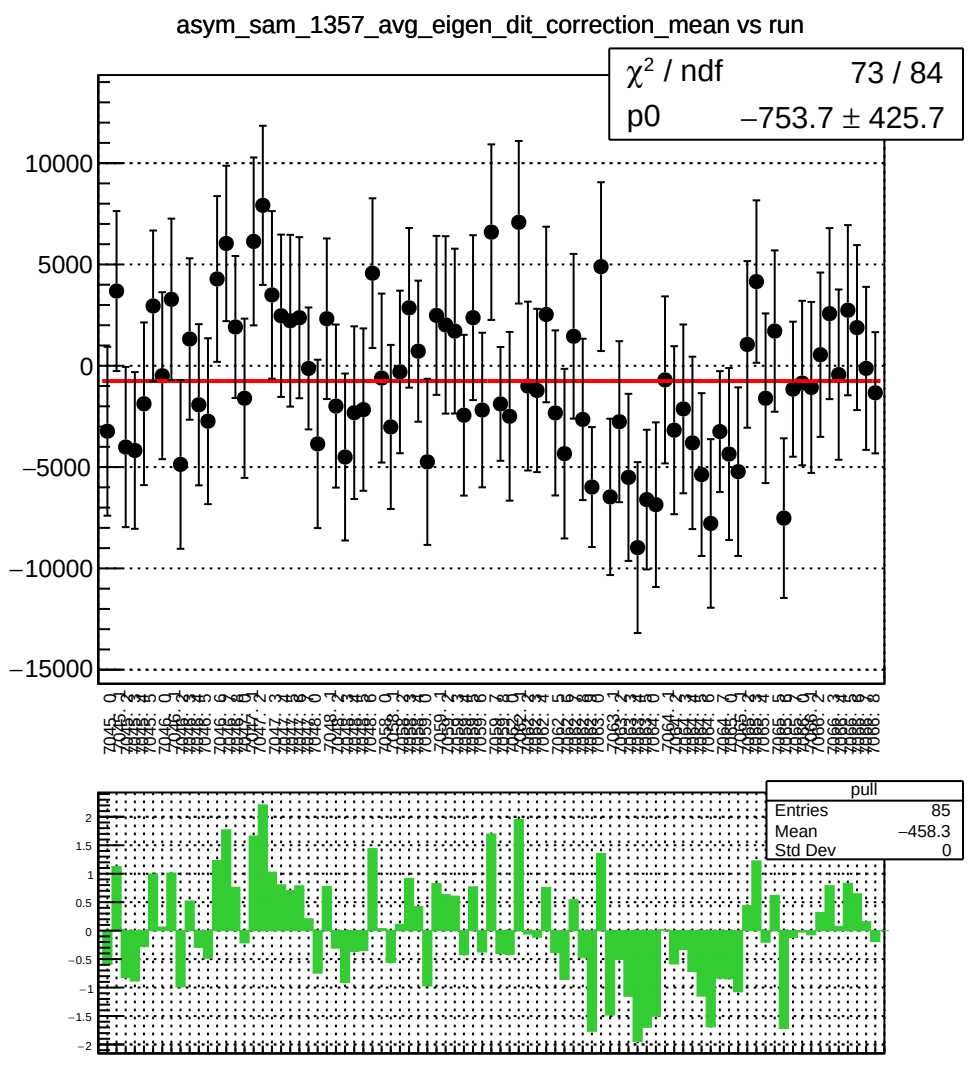

pull1D
Entries 85
Mean 0.01096
Std Dev 0.9267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

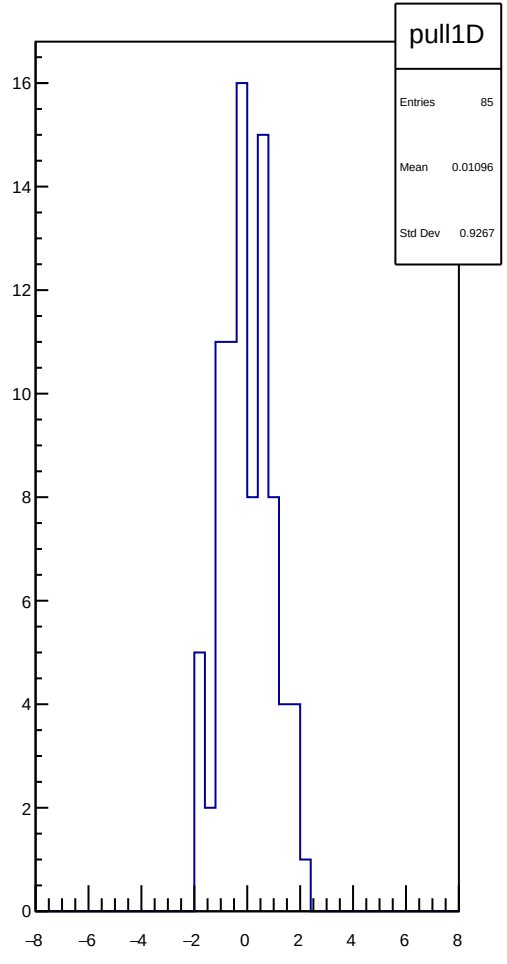

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1370 / 84
p0 386.2 ± 0.301
420
410
400
390
380
370
360

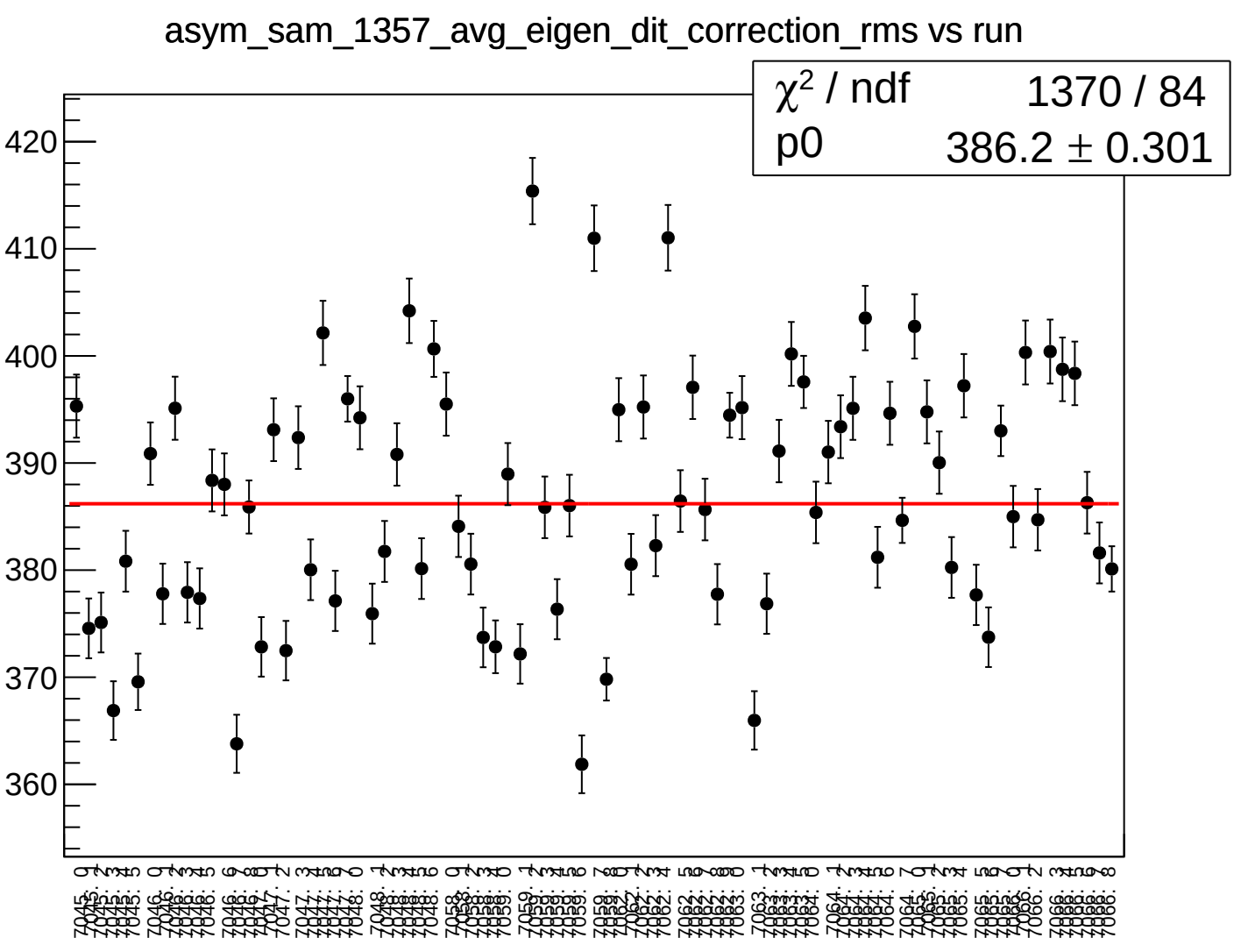

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.6 / 84
p0 50.44 ± 59
pull
Entries 85
Mean 88.78
Std Dev 61.39

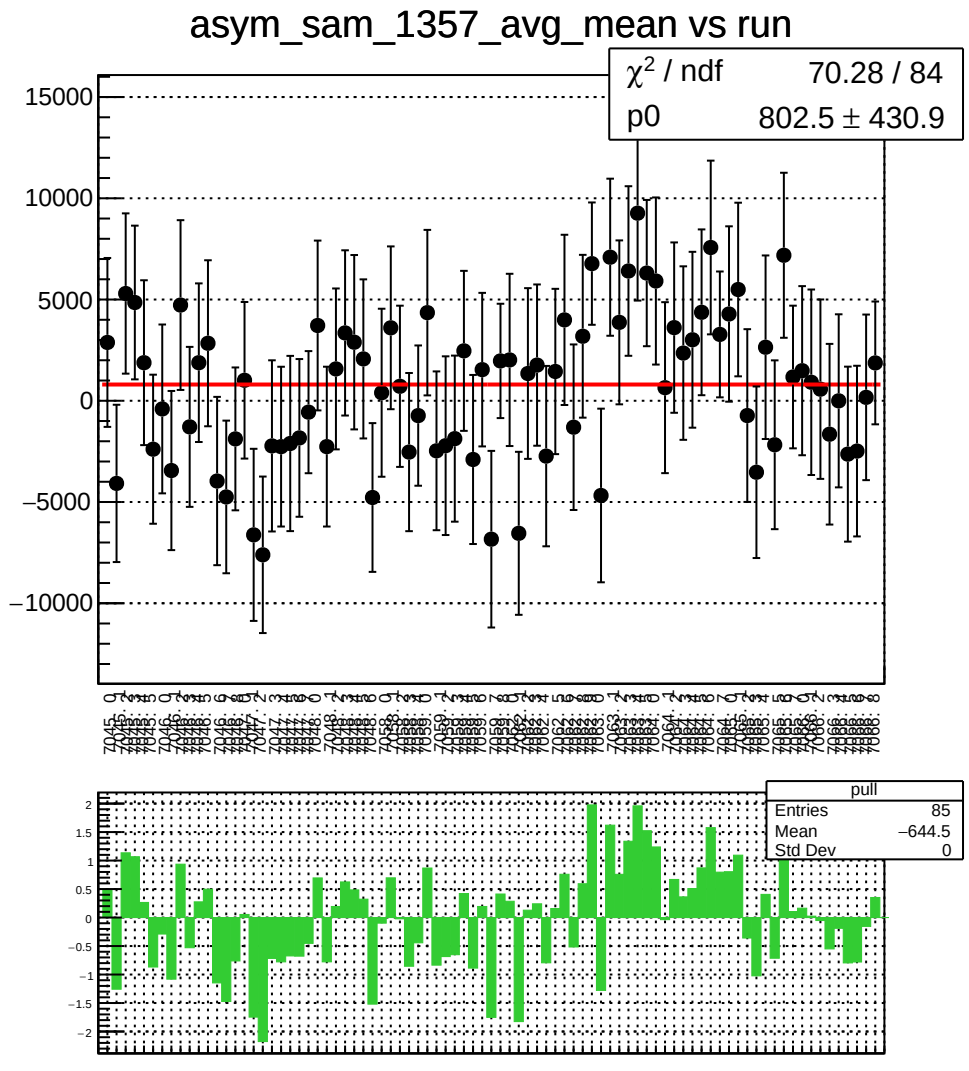

pull1D
Entries 85
Mean 0.009328
Std Dev 0.9798

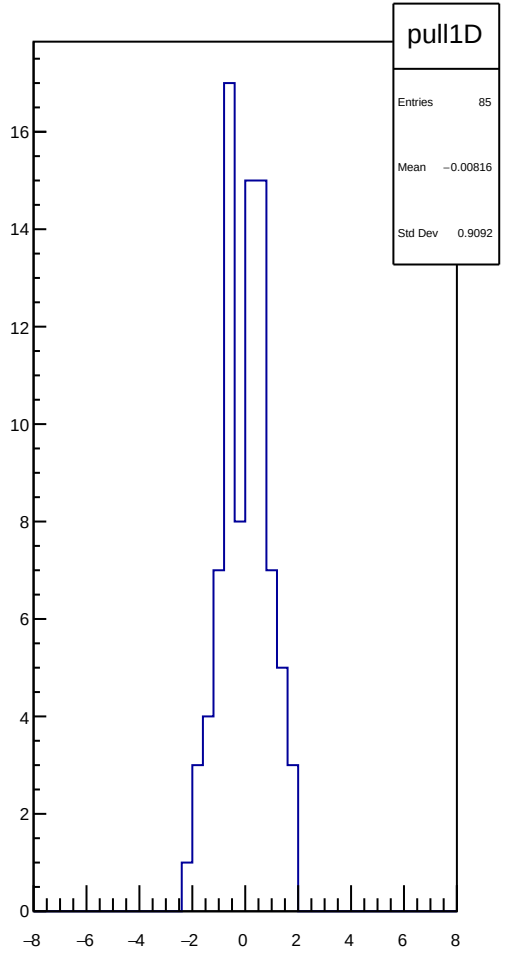

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.279e+04 / 84
p0 53.01 ± 0.04172
100
90
80
70
60
50

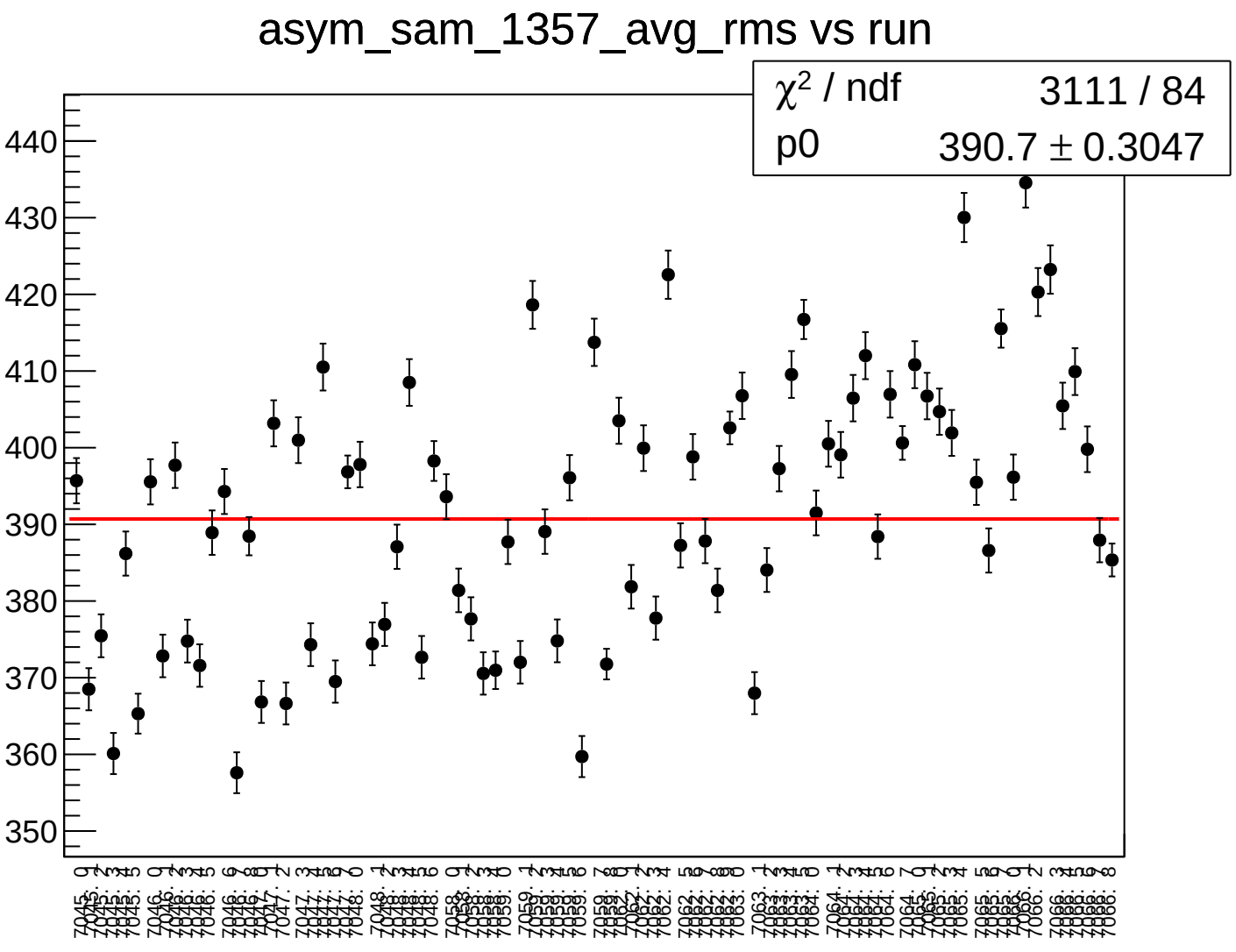

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 73 / 84
p0 −753.7 ± 425.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −458.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

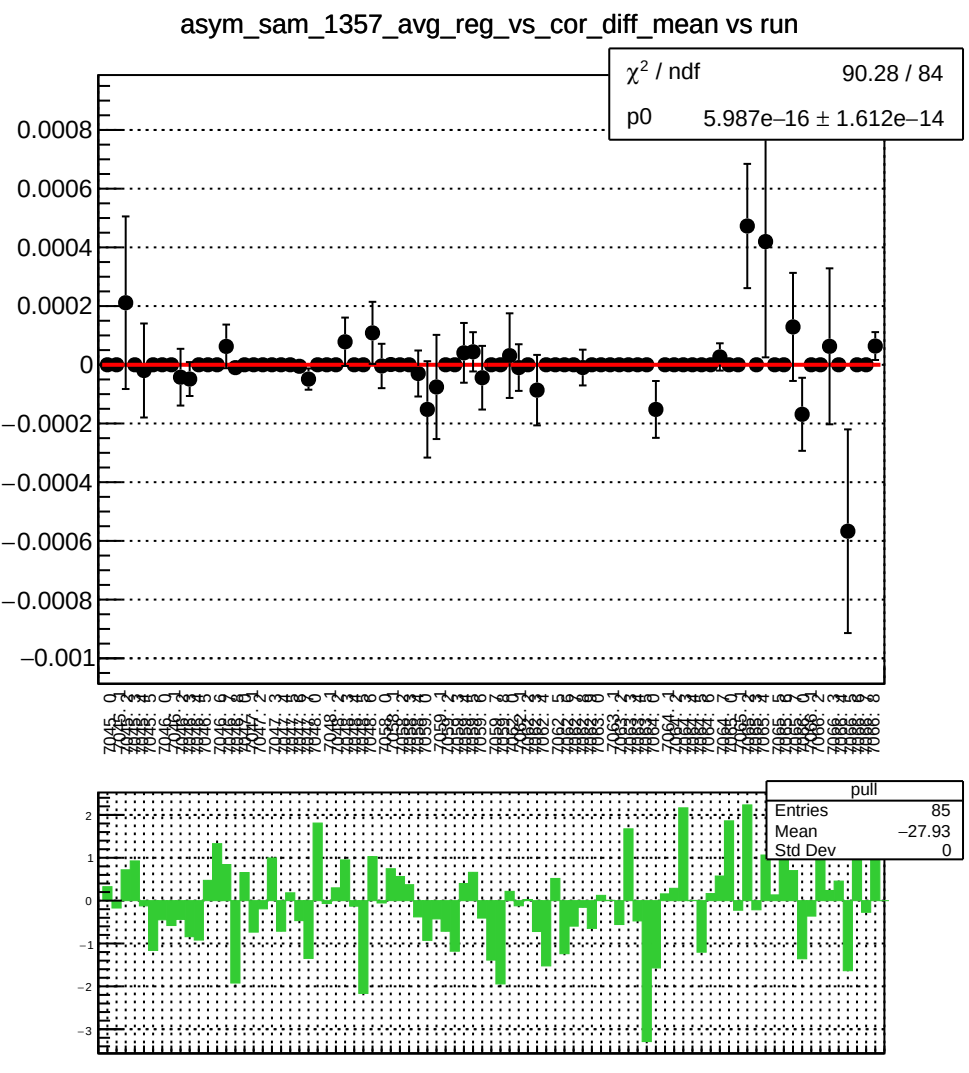

pull1D
Entries 85
Mean 0.01096
Std Dev 0.9267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

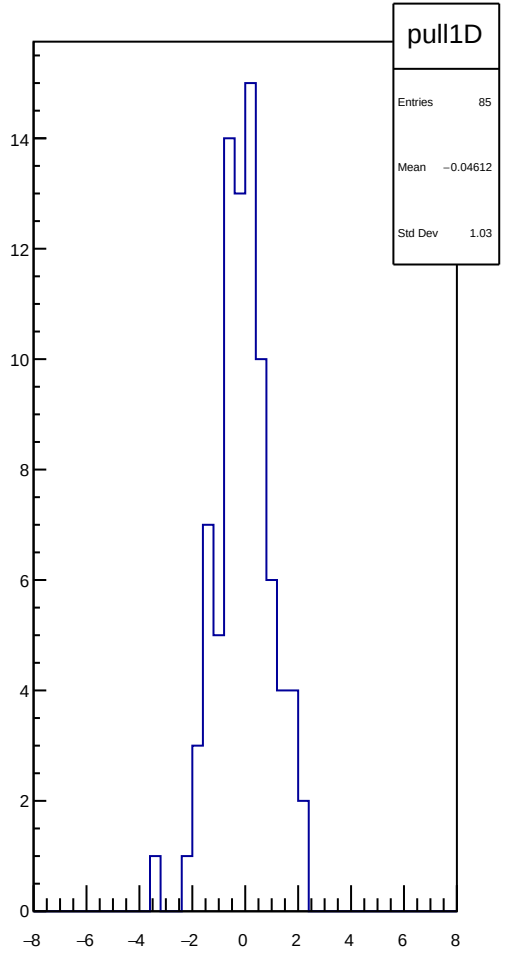

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1370 / 84
p0 386.2 ± 0.301
420
410
400
390
380
370
360

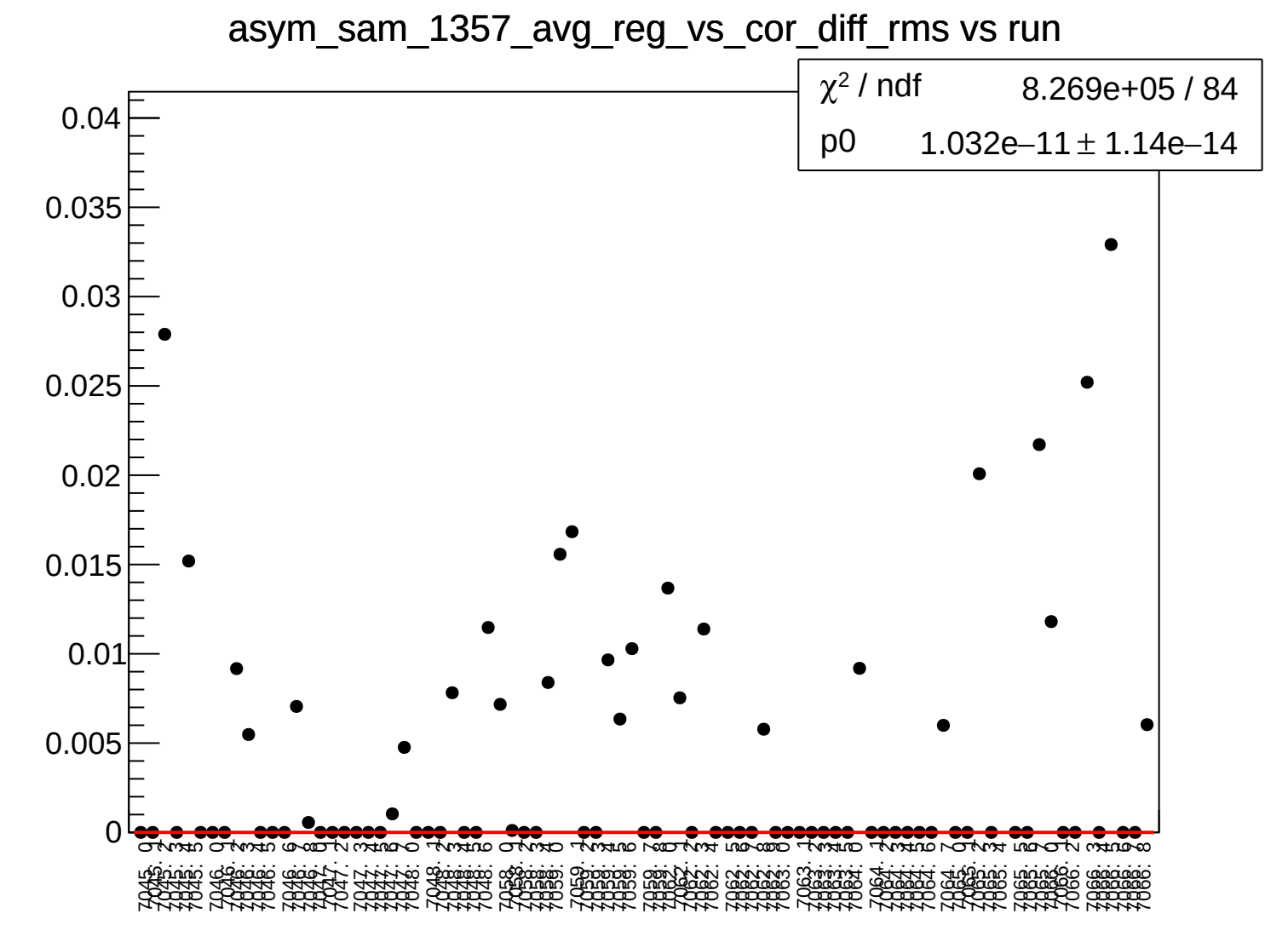

asym_sam_1357_avg_mean vs run
χ² / ndf 70.28 / 84
p0 802.5 ± 430.9
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −644.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

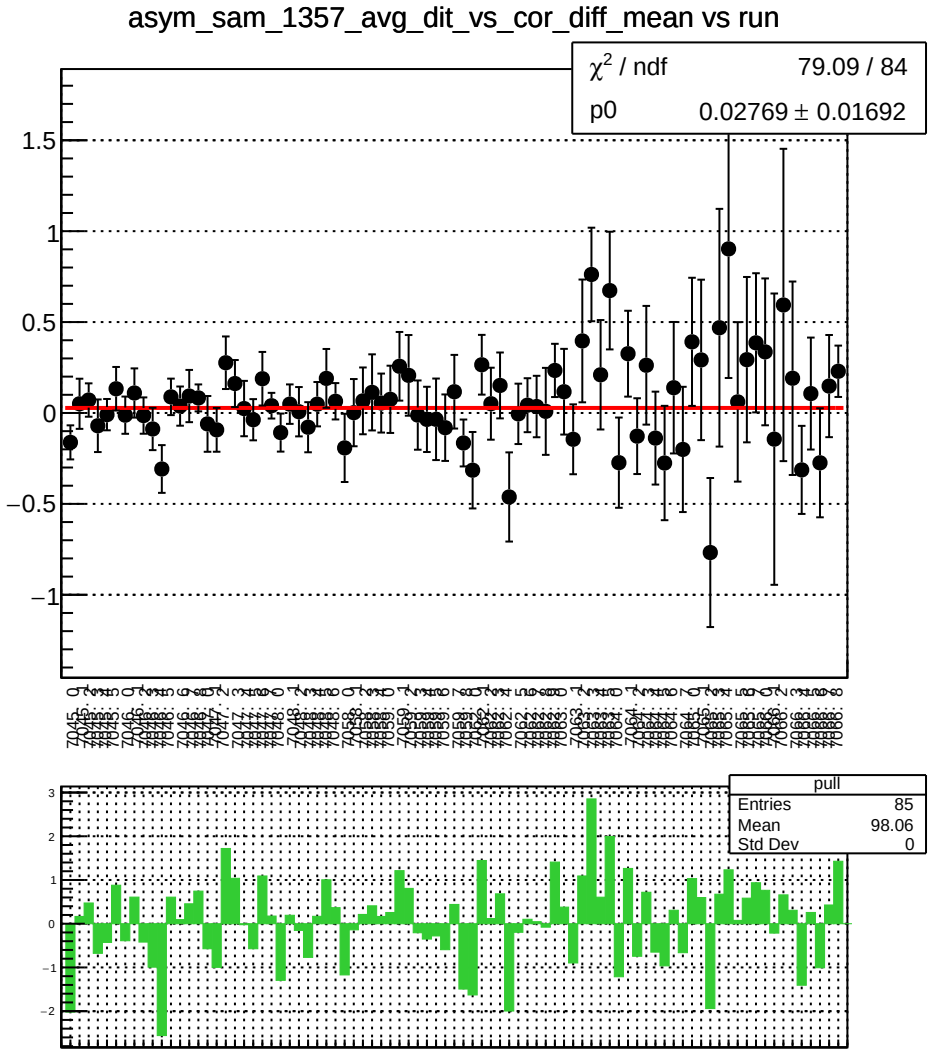

pull1D
Entries 85
Mean −0.00816
Std Dev 0.9092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

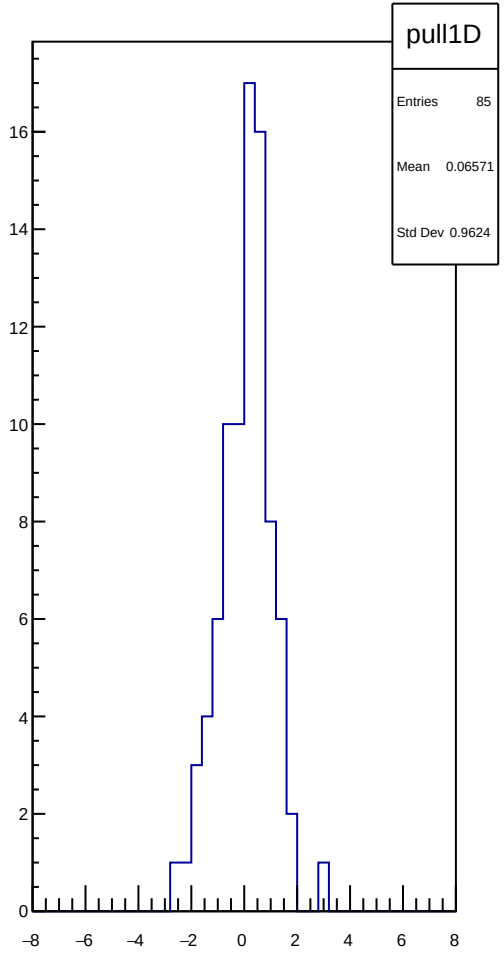

asym_sam_1357_avg_rms vs run
χ² / ndf 3111 / 84
p0 390.7 ± 0.3047
440
430
420
410
400
390
380
370
360
350

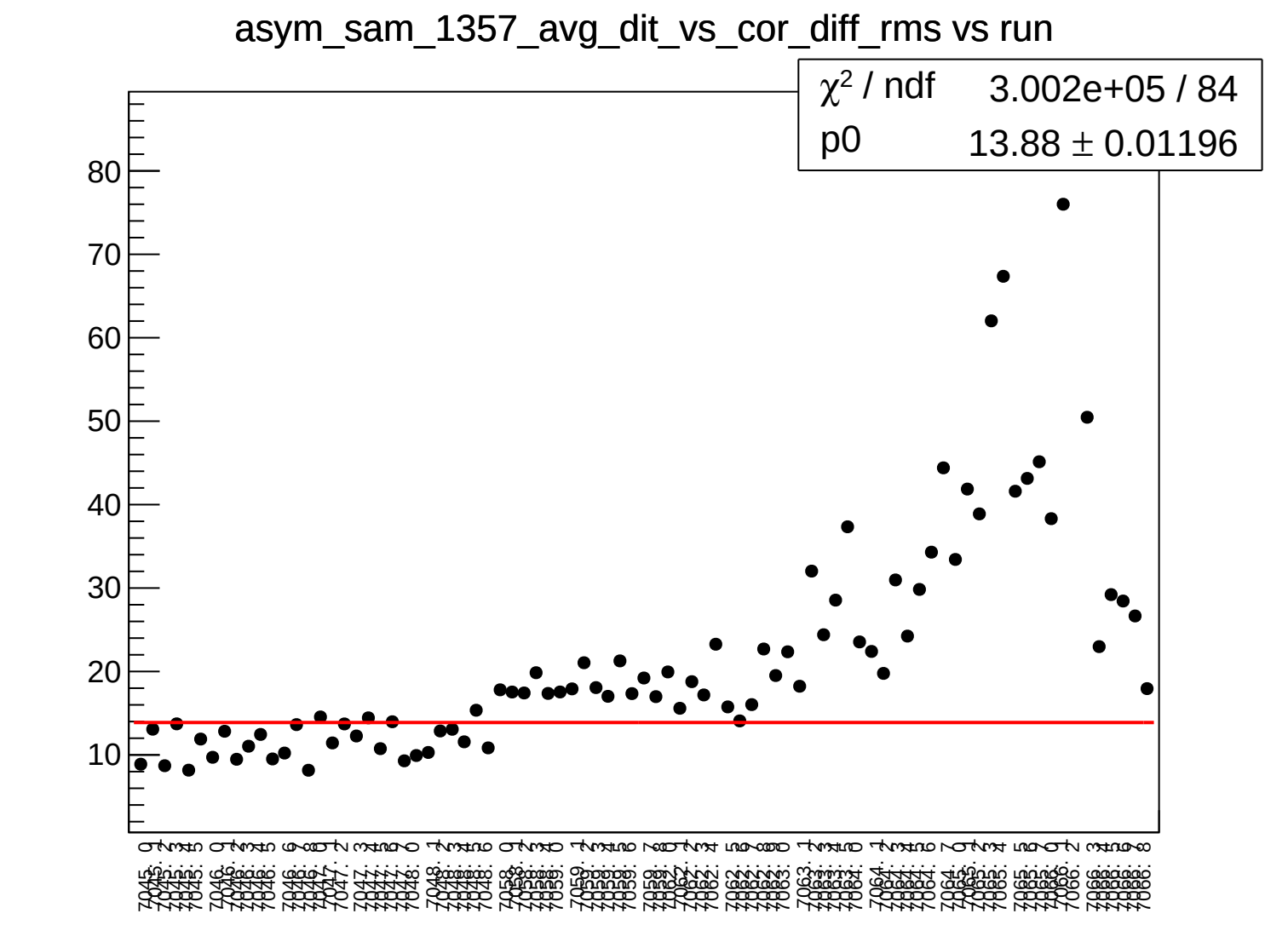

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 84
p0 5.987e−16 ± 1.612e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 85
Mean −27.93
Std Dev 0
2
1
0
−1
−2
−3

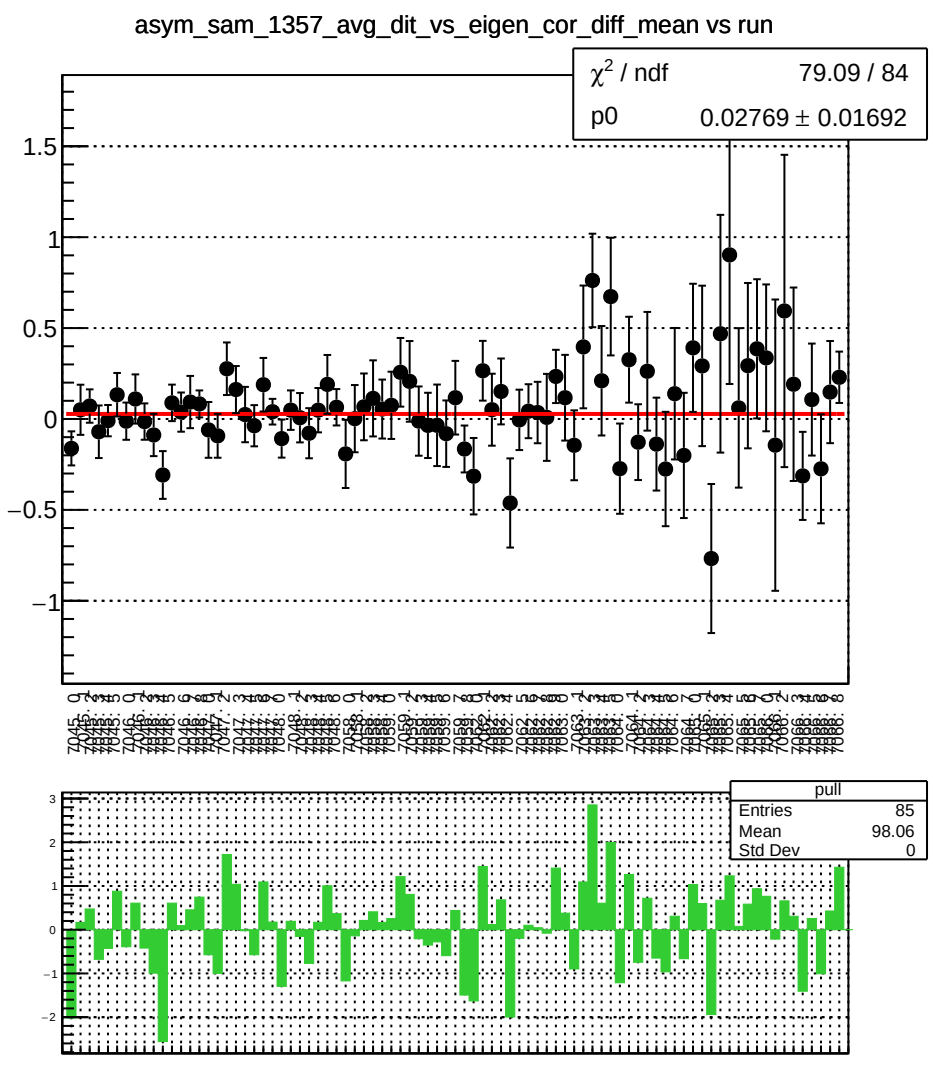

pull1D
Entries 85
Mean −0.04612
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

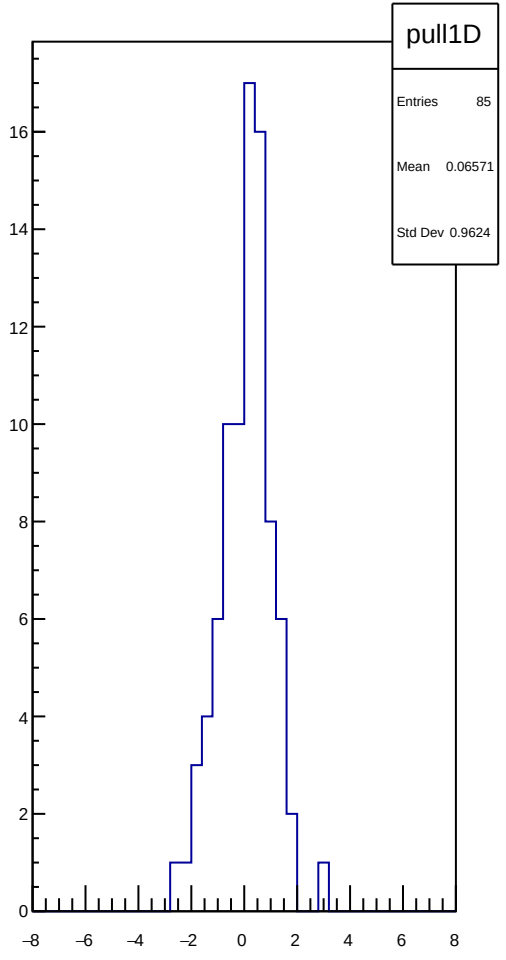

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.269e+05 / 84
p0 1.032e−11 ± 1.14e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

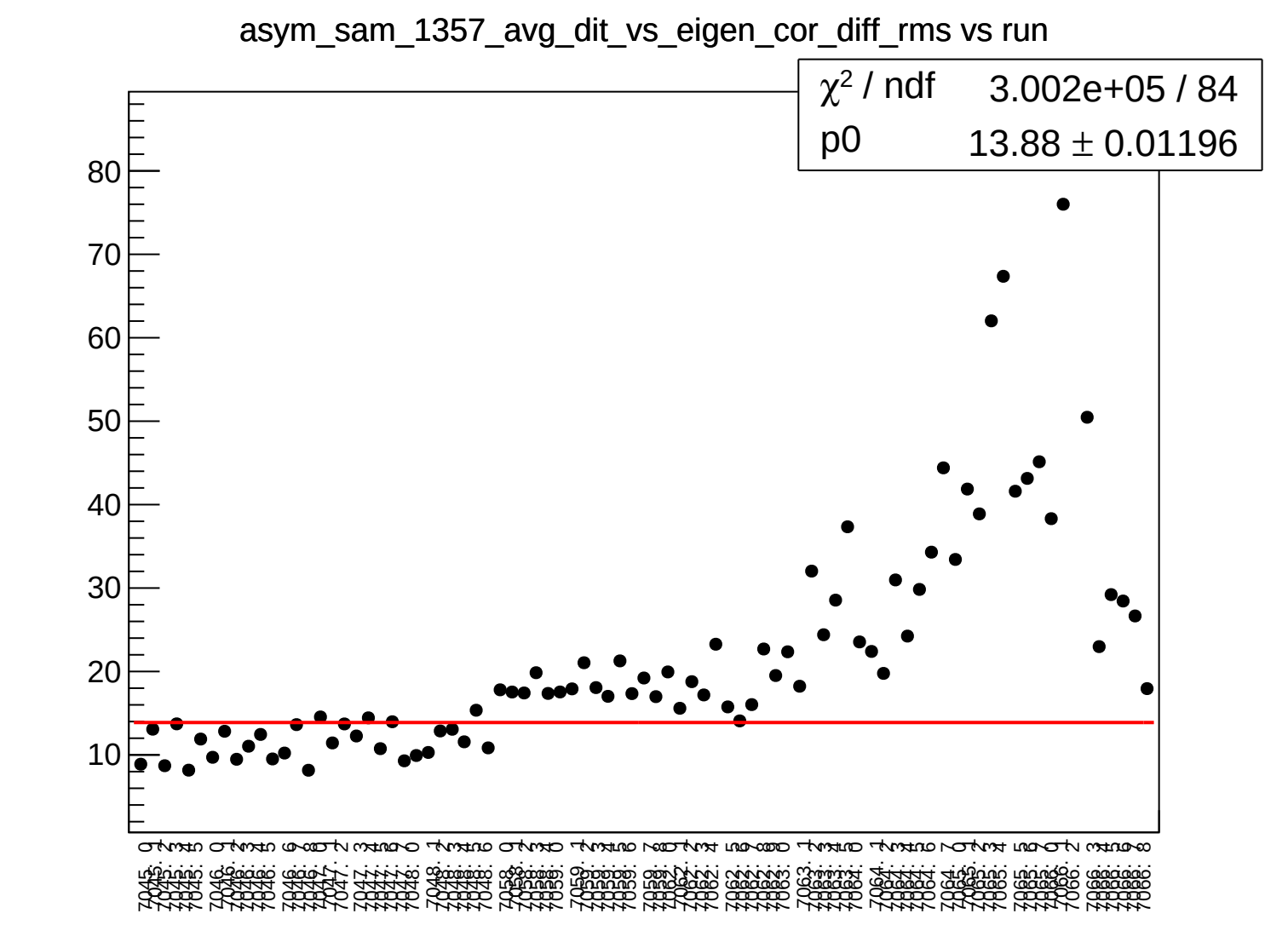

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.09 / 84
p0 0.02769 ± 0.01692
pull
Entries 85
Mean 98.06
Std Dev 0

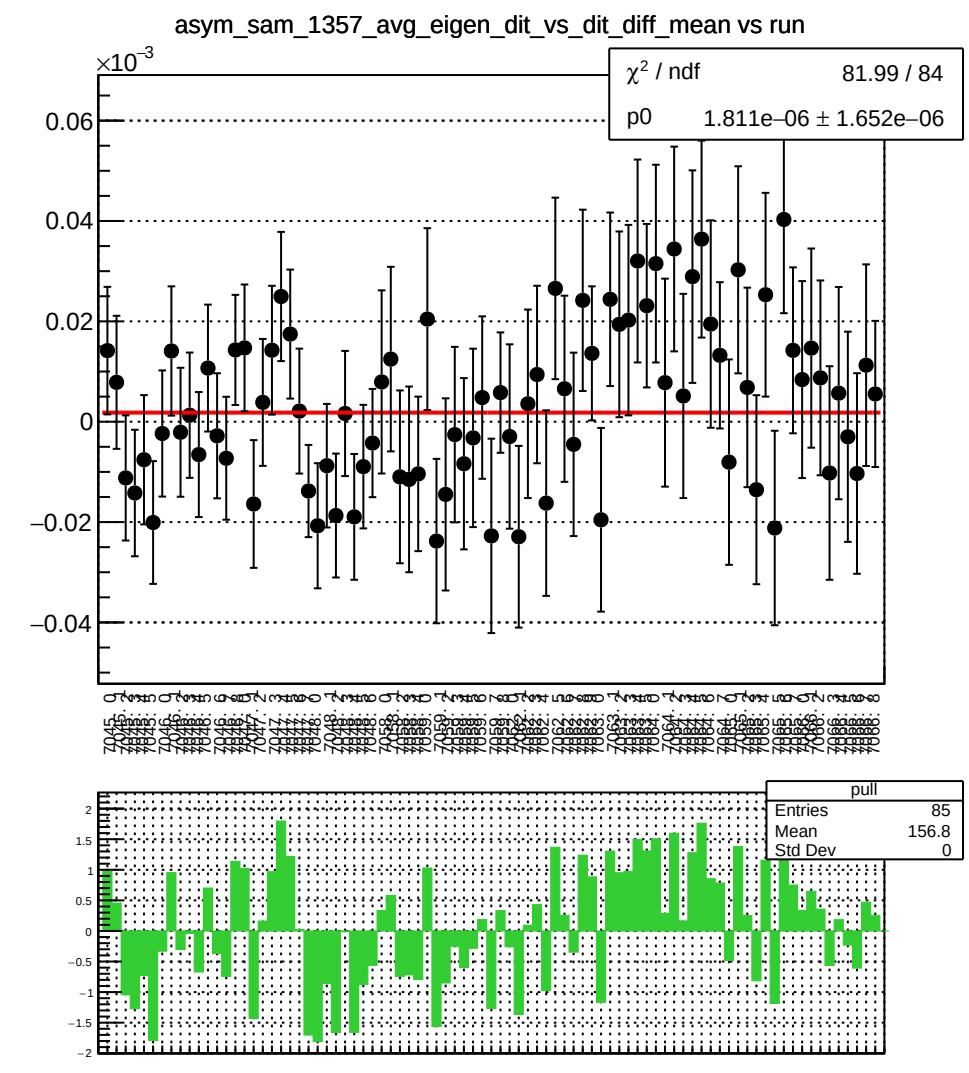

pull1D
Entries 85
Mean 0.06571
Std Dev 0.9624

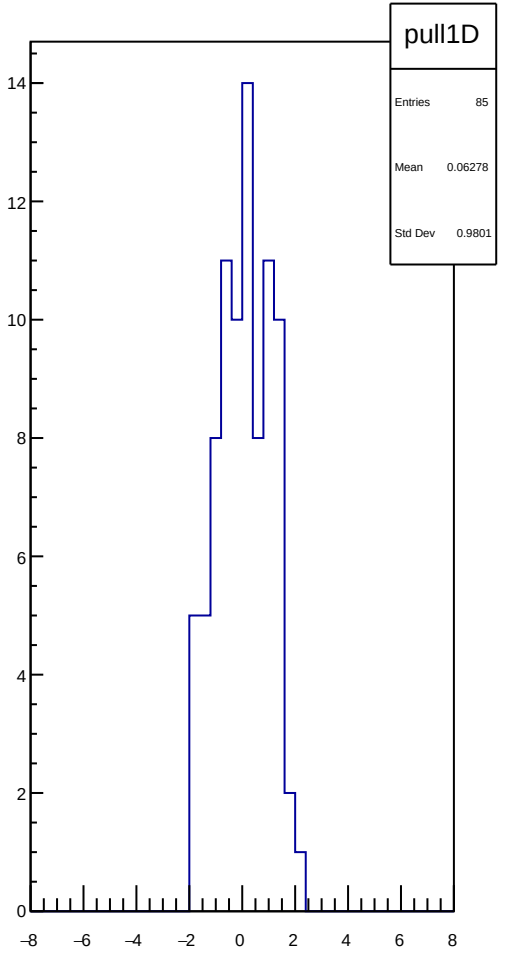

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.002e+05 / 84
p0 13.88 ± 0.01196
80
70
60
50
40
30
20
10

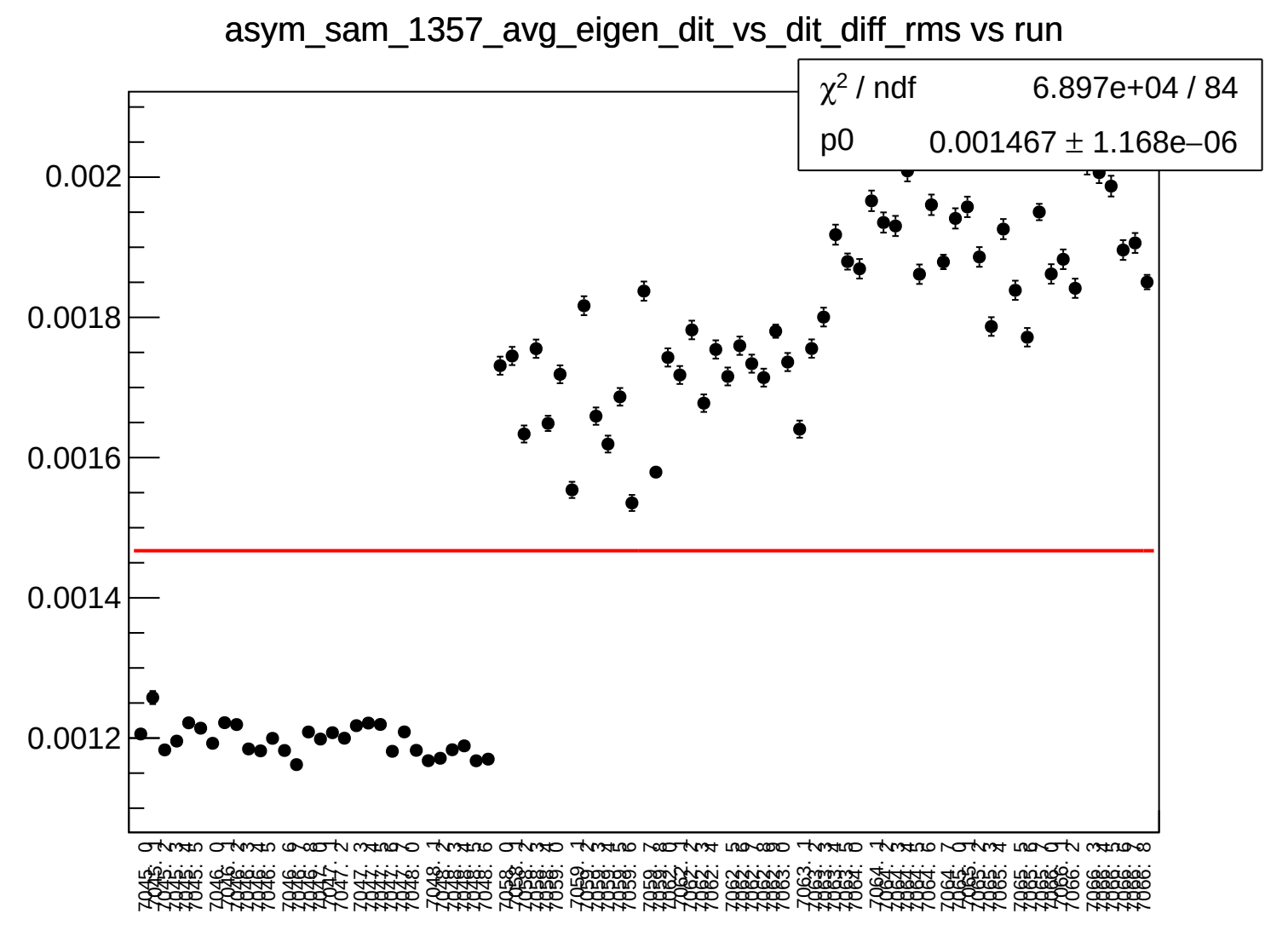

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.09 / 84
p0 0.02769 ± 0.01692
pull
Entries 85
Mean 98.06
Std Dev 0

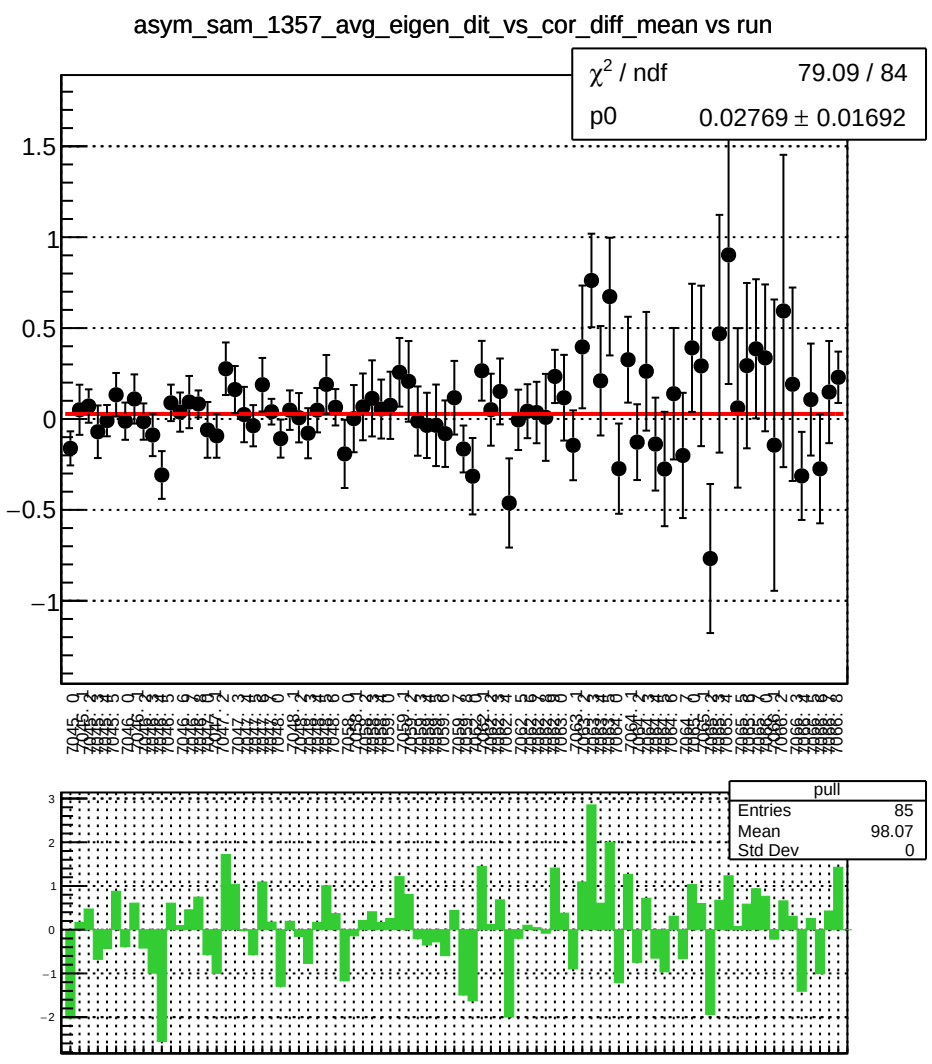

pull1D
Entries 85
Mean 0.06571
Std Dev 0.9624

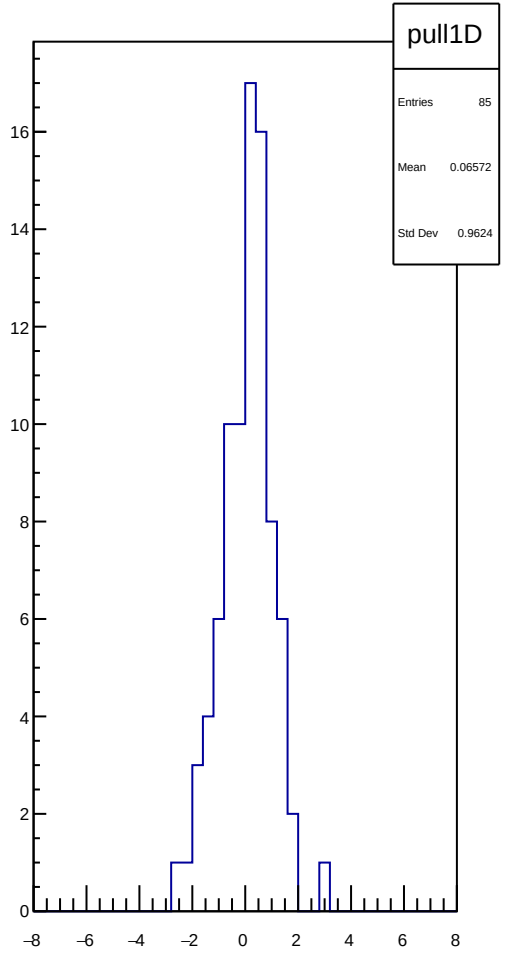

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.002e+05 / 84
p0 13.88 ± 0.01196
80
70
60
50
40
30
20
10

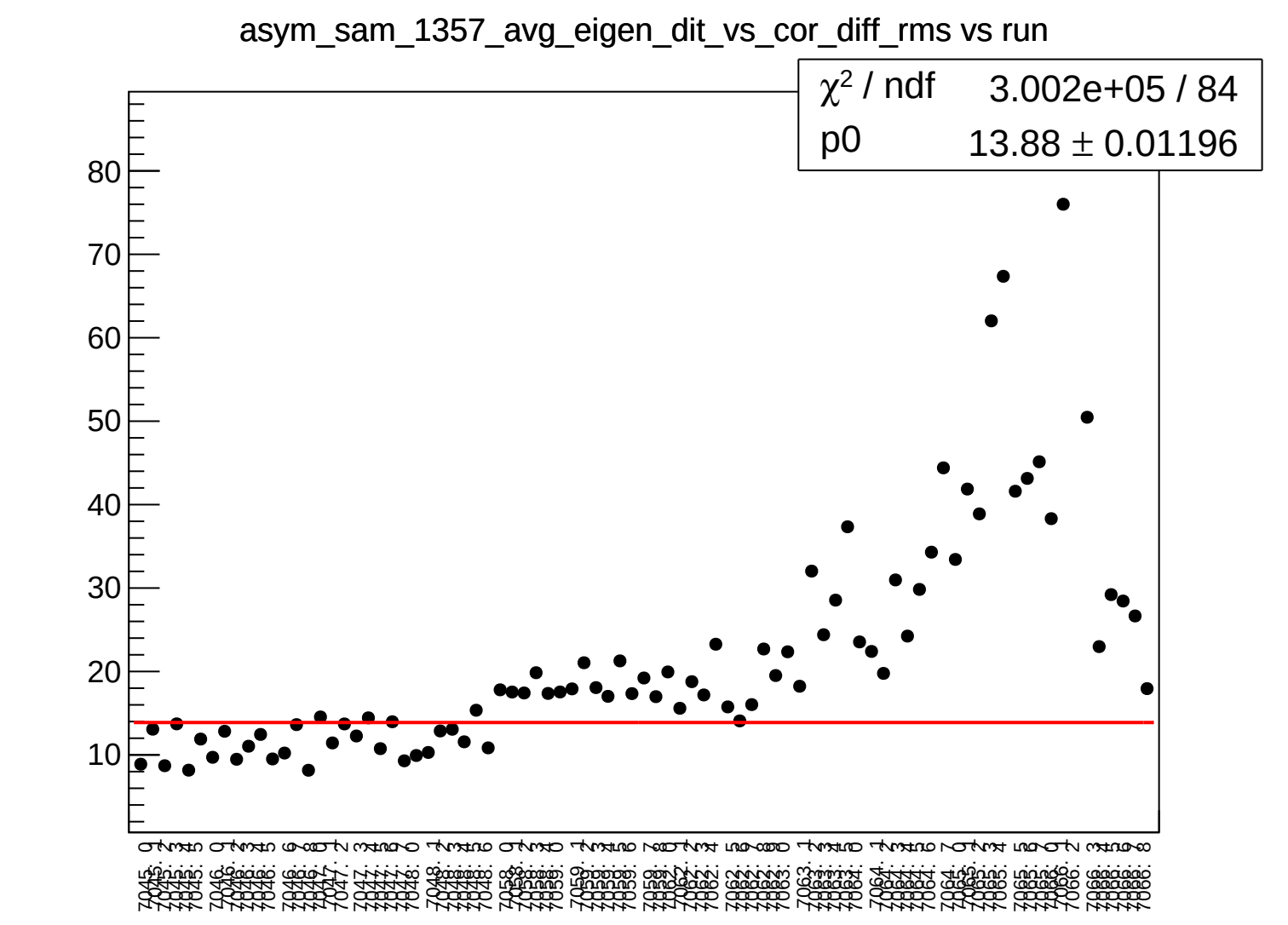

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.99 / 84
p0 1.811e−06 ± 1.652e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 85
Mean 156.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

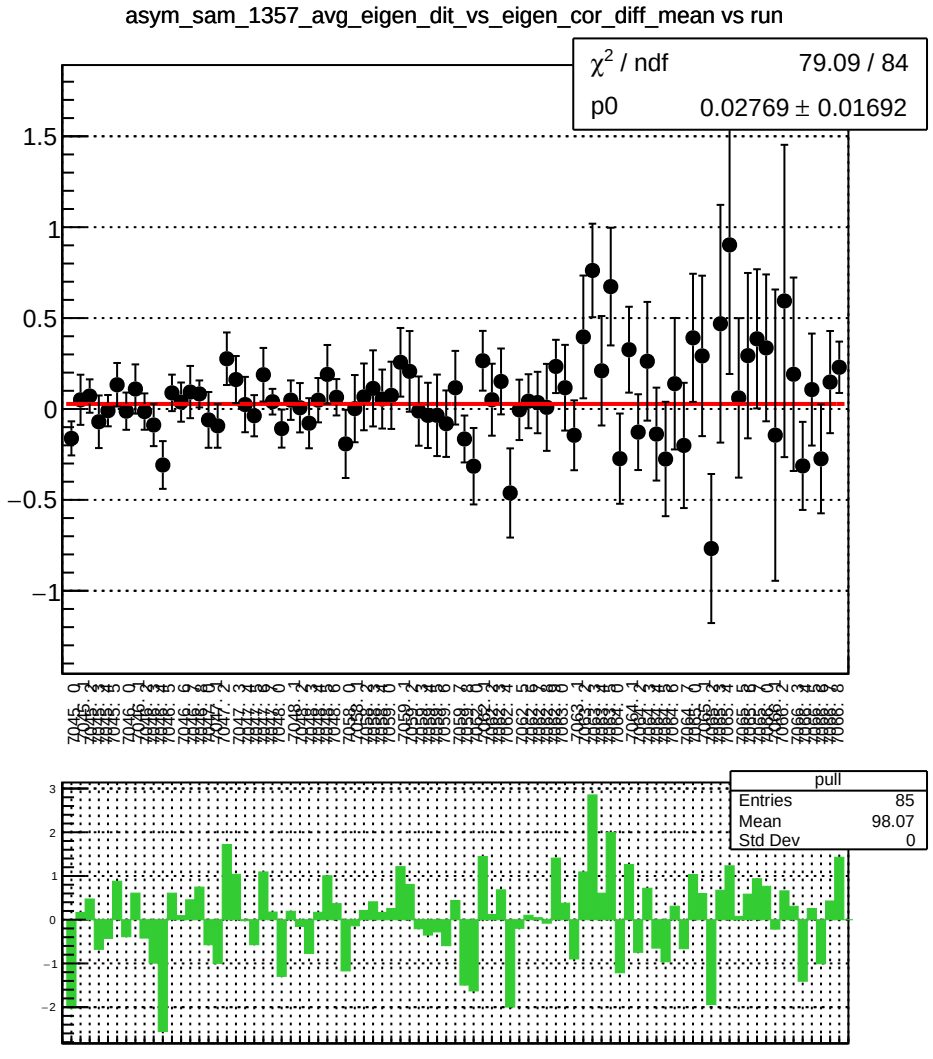

pull1D
Entries 85
Mean 0.06278
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

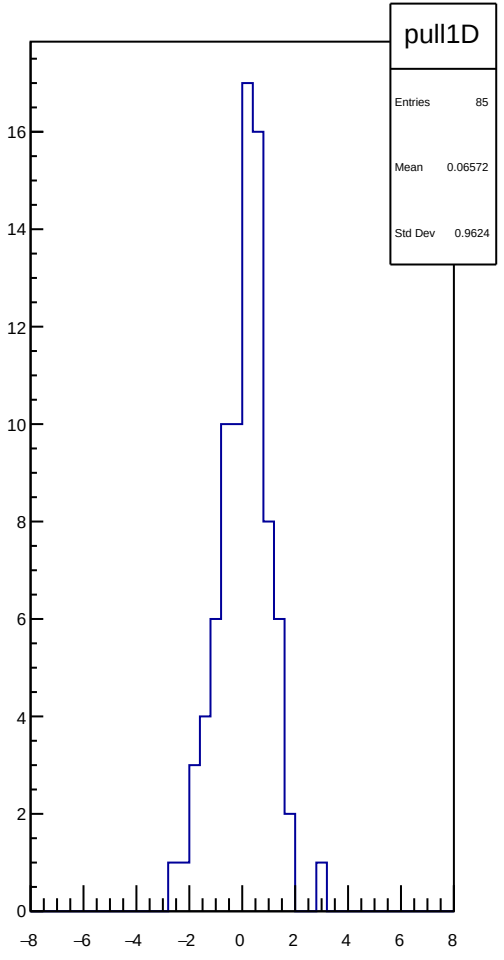

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.897e+04 / 84
p0 0.001467 ± 1.168e−06
0.002
0.0018
0.0016
0.0014
0.0012

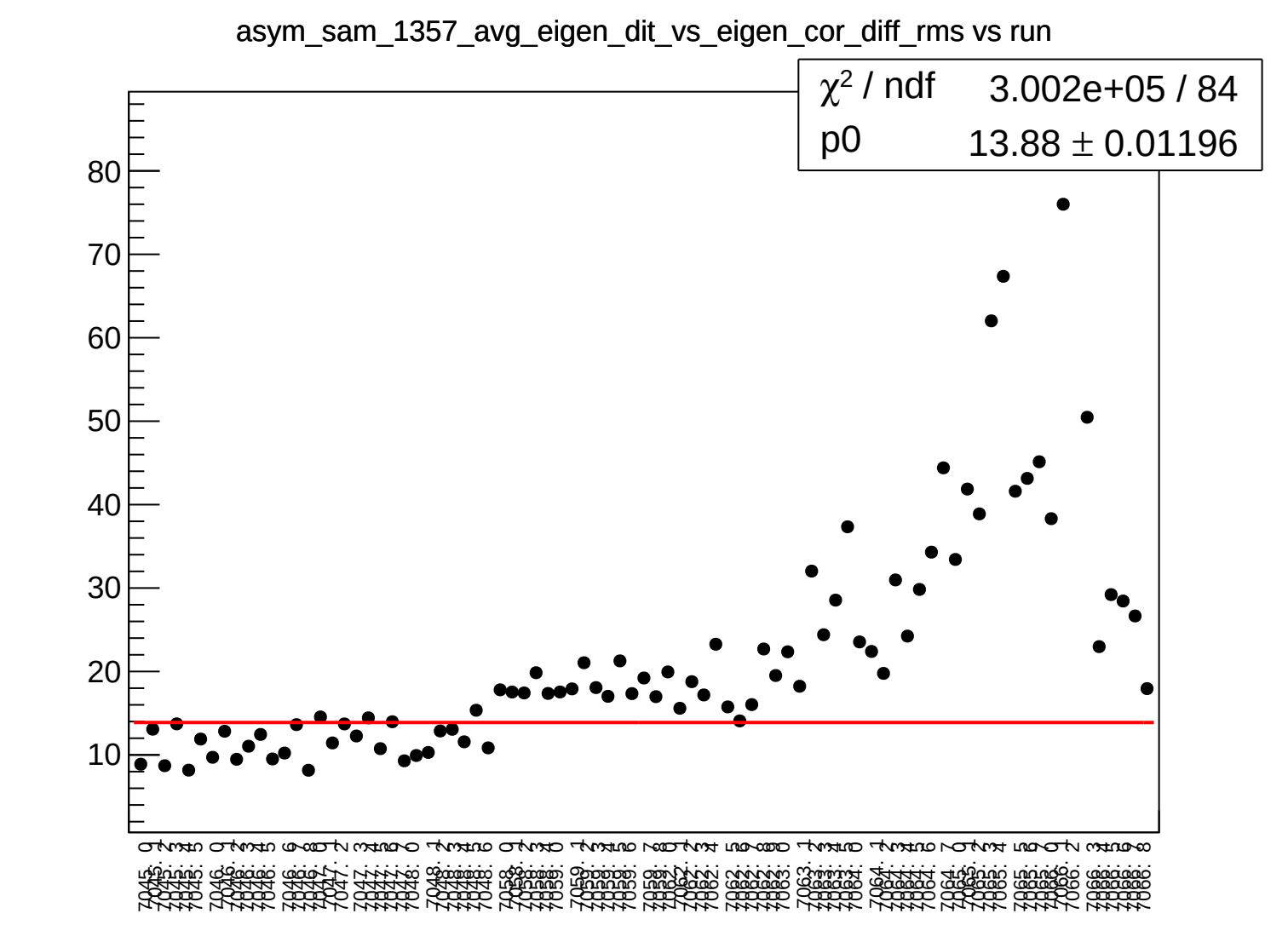

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.09 / 84
p0 0.02769 ± 0.01692
pull
Entries 85
Mean 98.07
Std Dev 0

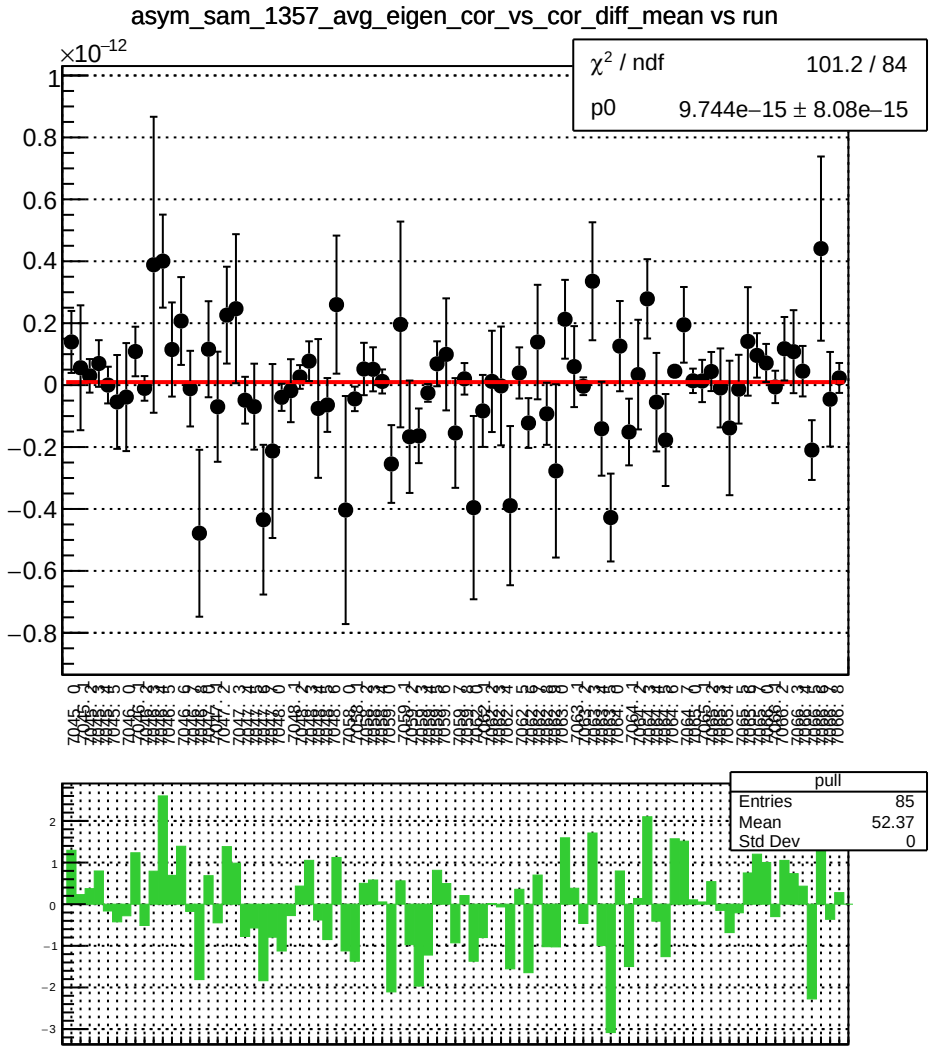

pull1D
Entries 85
Mean 0.06572
Std Dev 0.9624

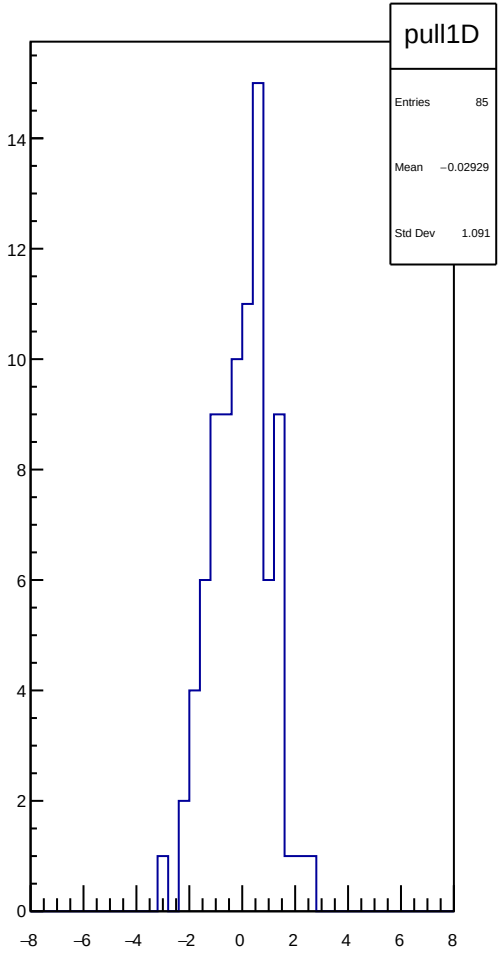

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.002e+05 / 84
p0 13.88 ± 0.01196
80
70
60
50
40
30
20
10

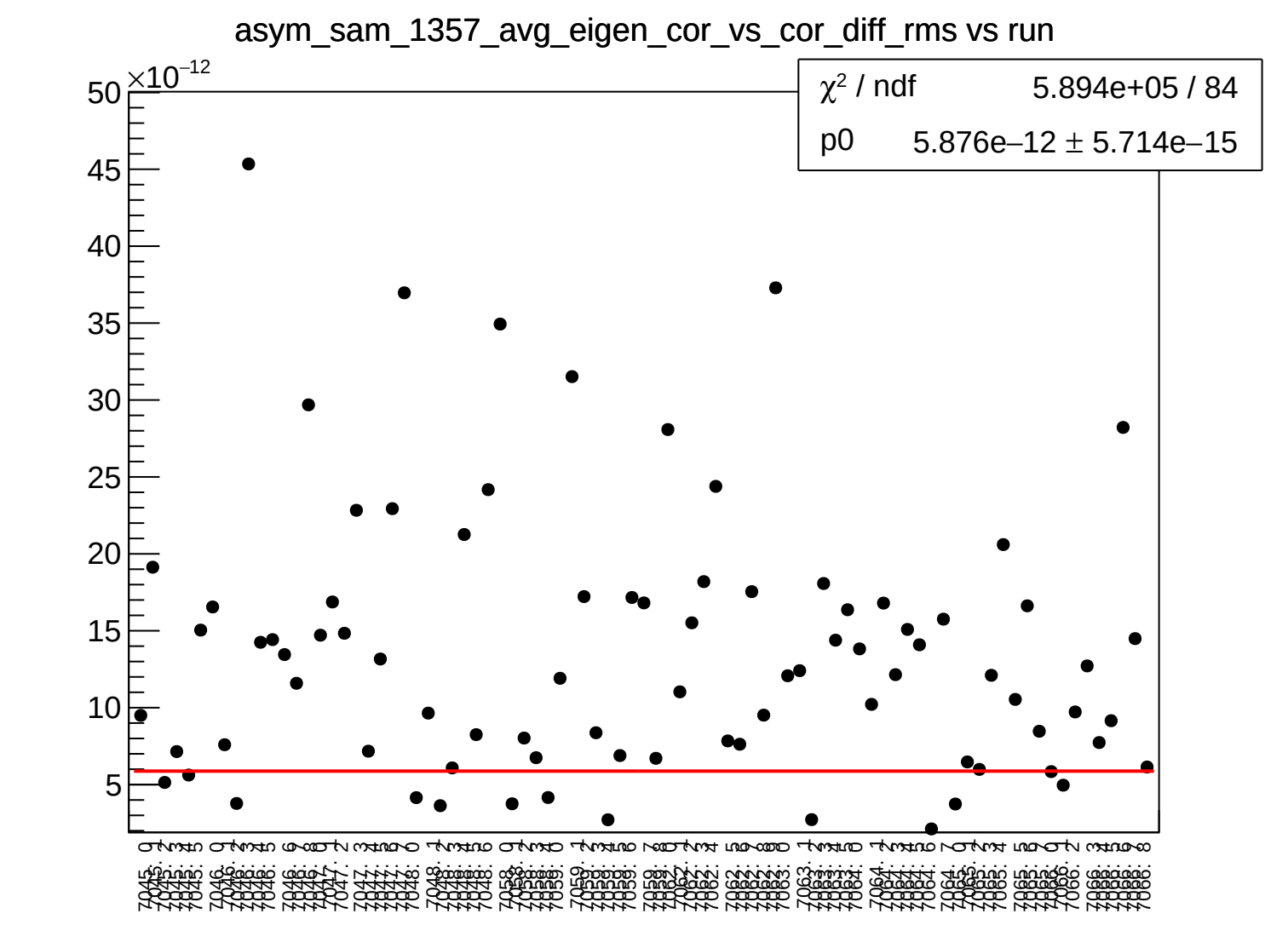

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.09 / 84
p0 0.02769 ± 0.01692
pull
Entries 85
Mean 98.07
Std Dev 0

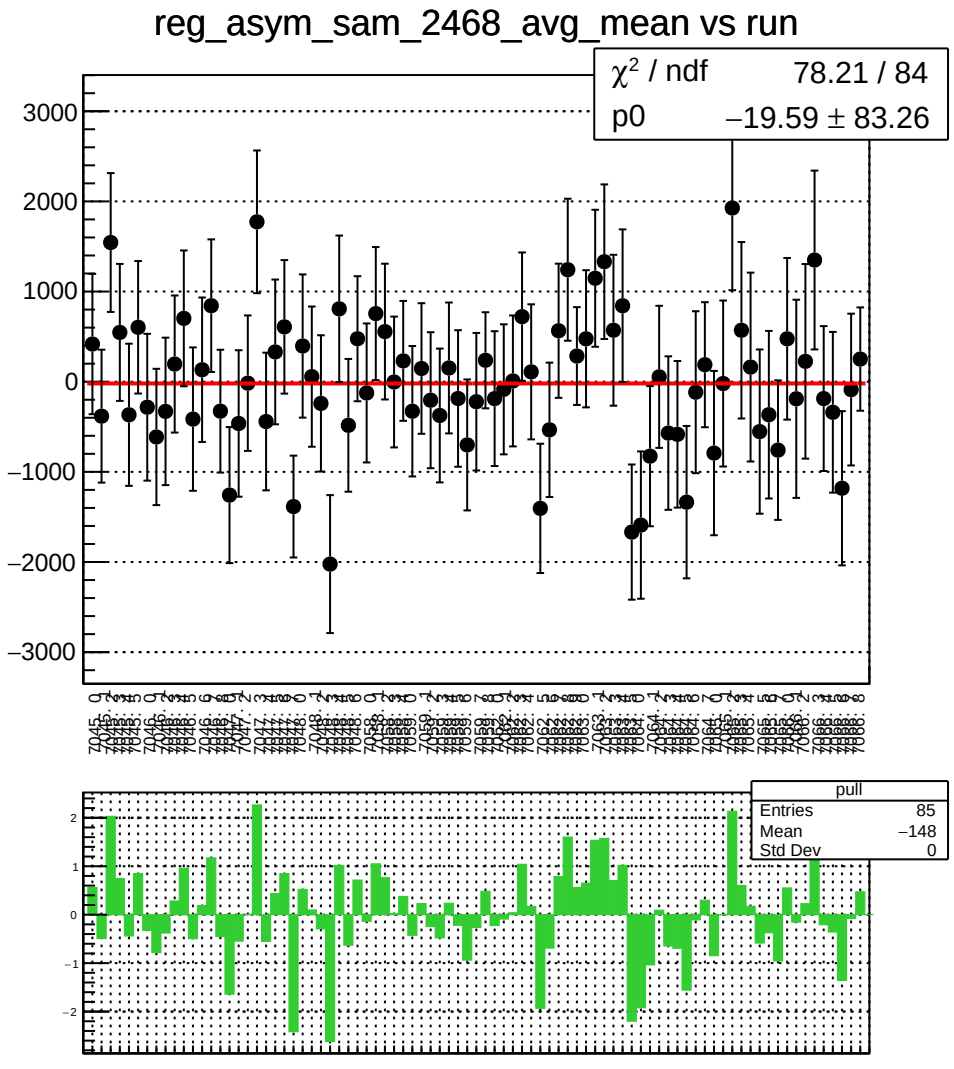

pull1D
Entries 85
Mean 0.06572
Std Dev 0.9624

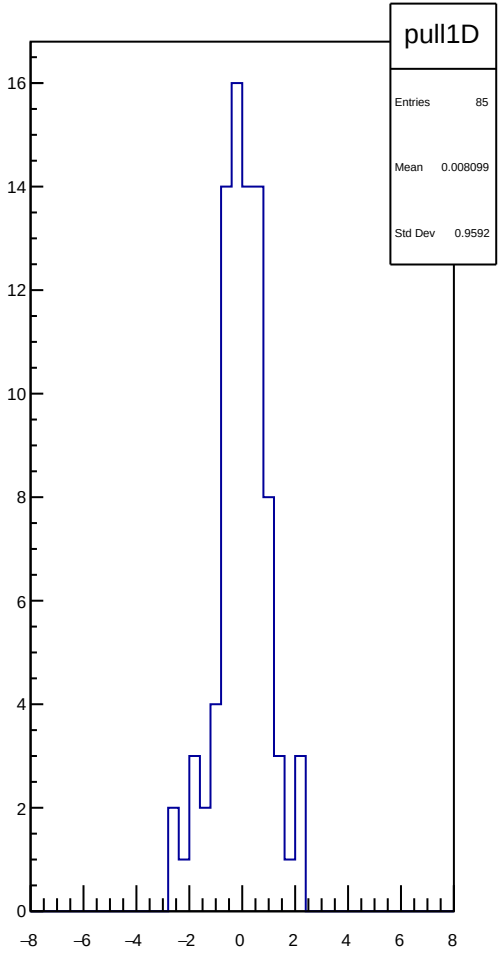

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.002e+05 / 84
p0 13.88 ± 0.01196
80
70
60
50
40
30
20
10

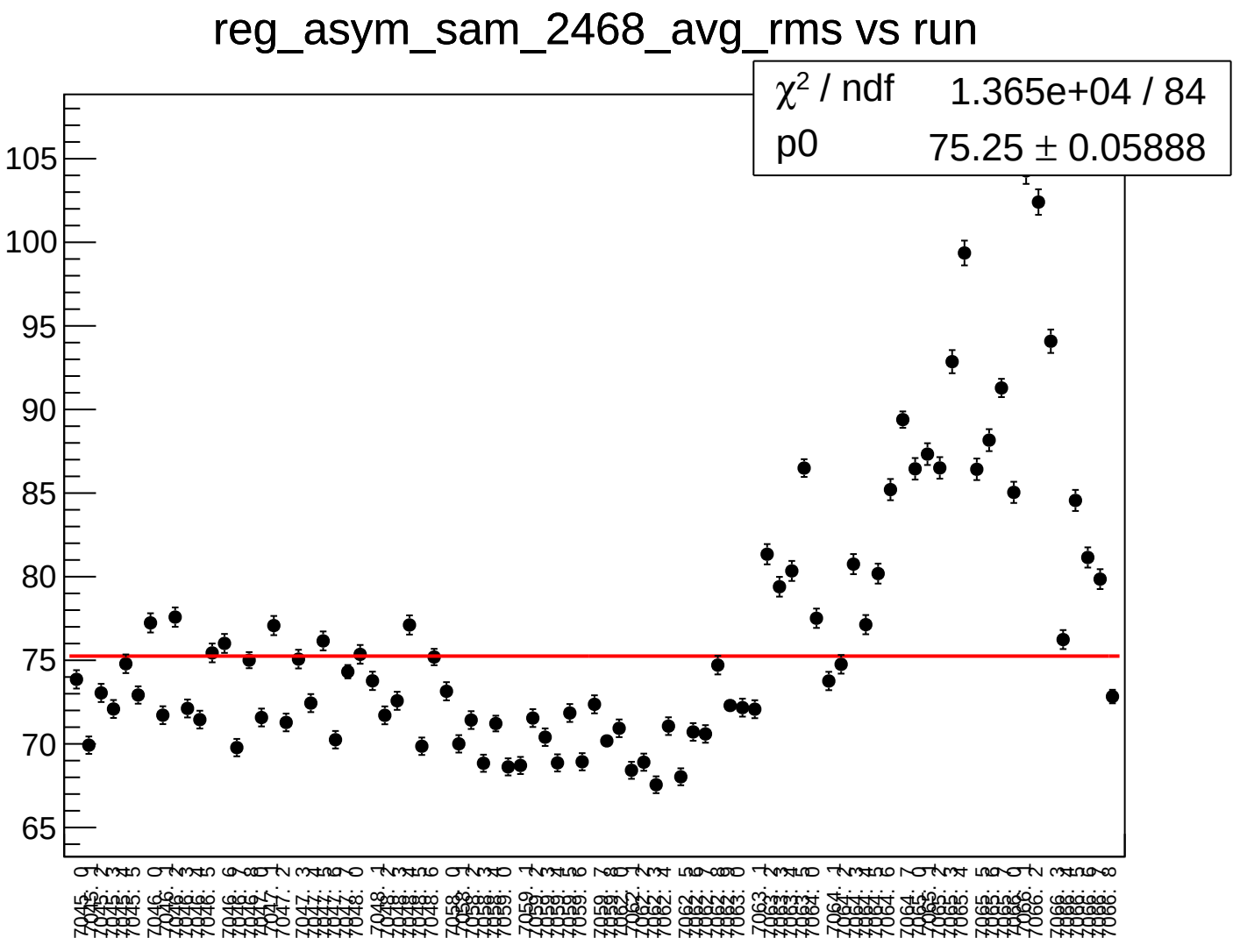

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.2 / 84
p0 9.744e−15 ± 8.08e−15
pull
Entries 85
Mean 52.37
Std Dev 0

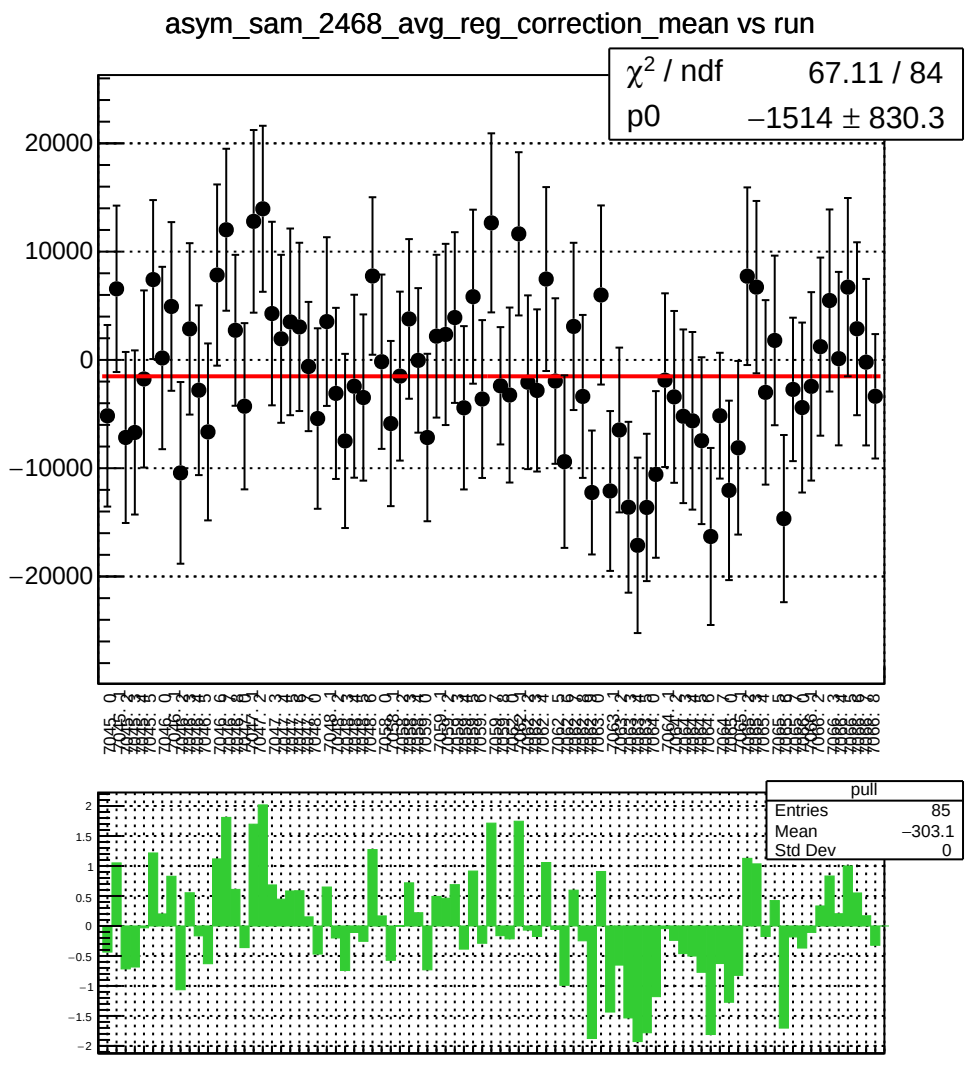

pull1D
Entries 85
Mean −0.02929
Std Dev 1.091

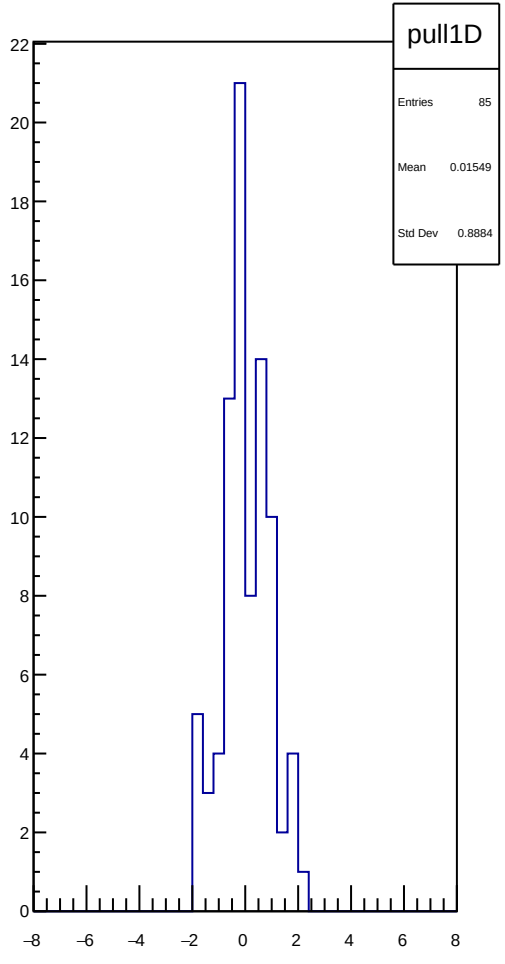

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.894e+05 / 84
p0 5.876e−12 ± 5.714e−15
50
45
40
35
30
25
20
15
10
5

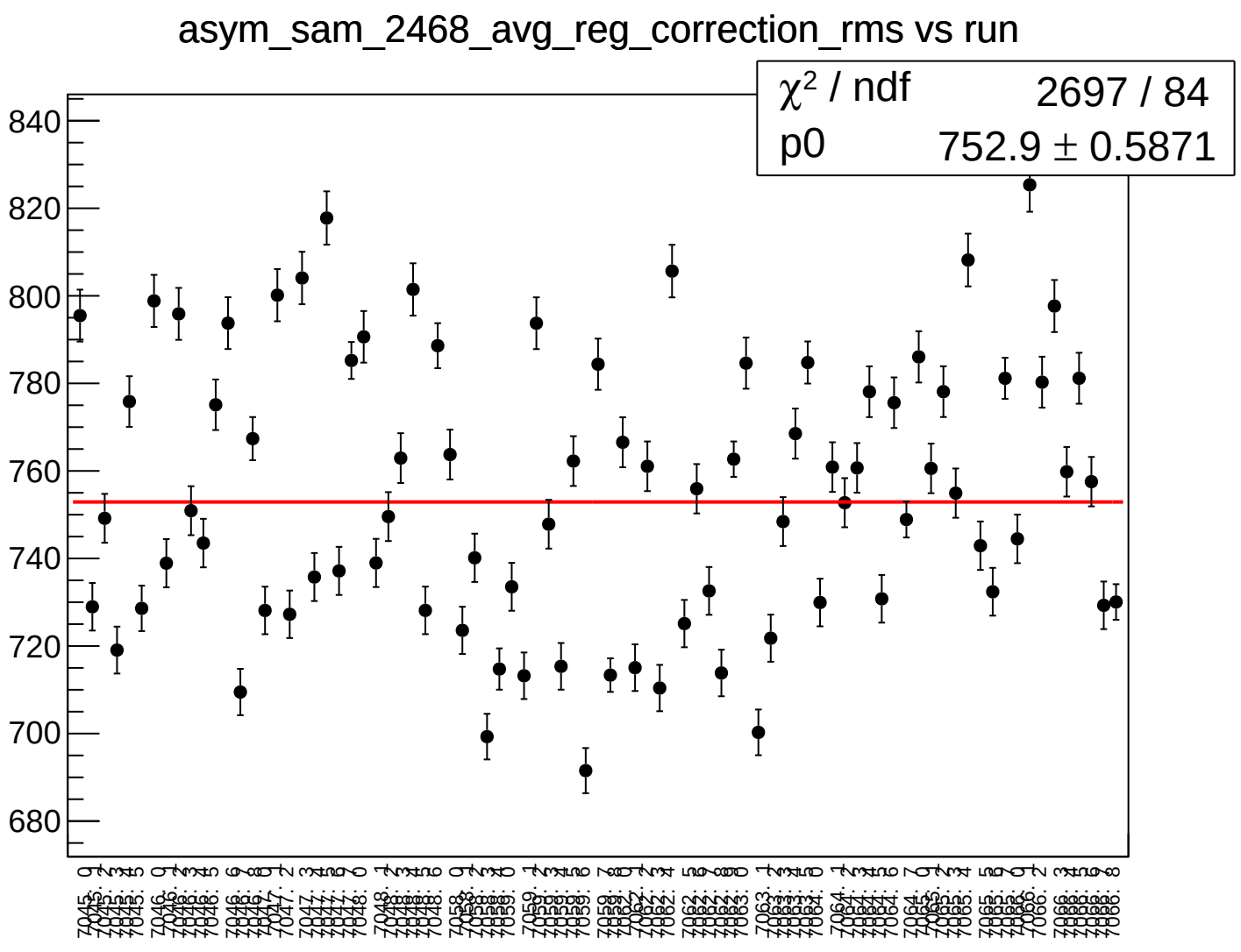

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 78.21 / 84
p0 −19.59 ± 83.26
pull
Entries 85
Mean −148
Std Dev 0

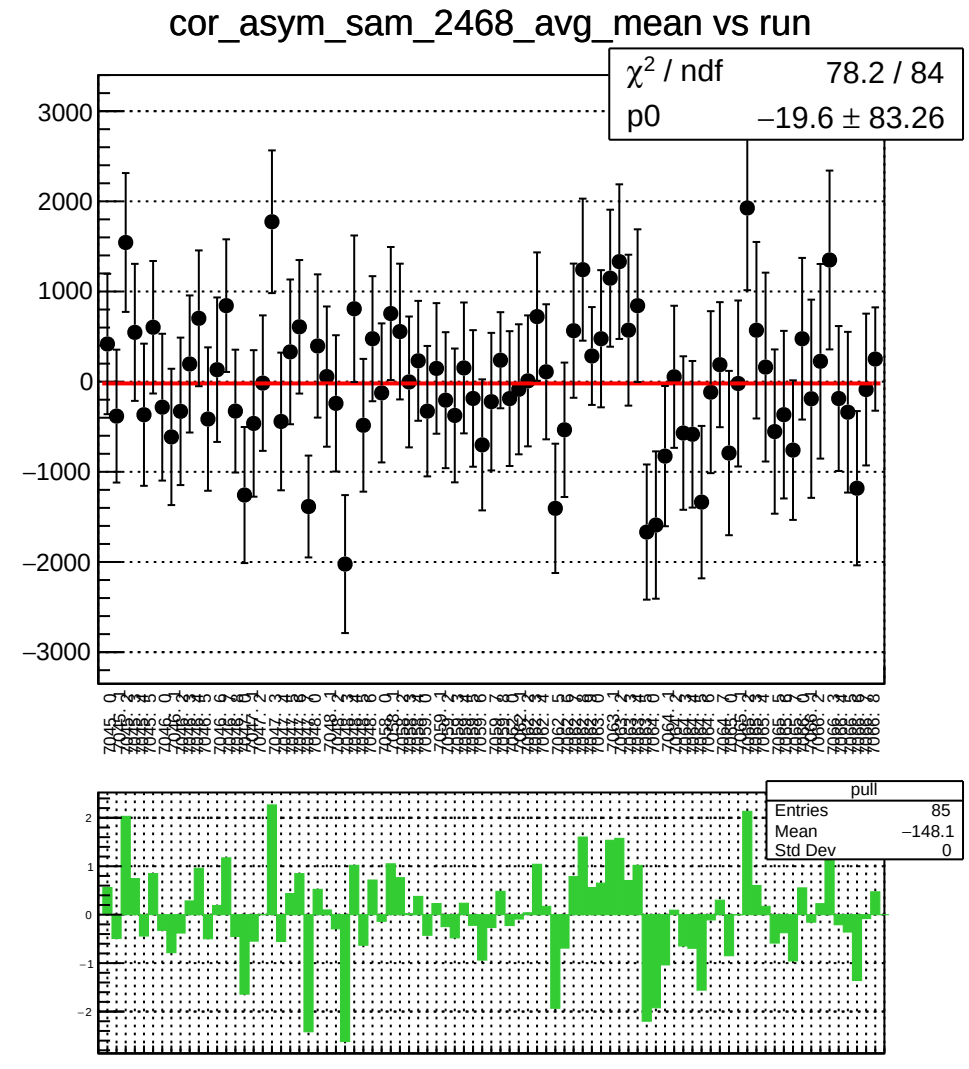

pull1D
Entries 85
Mean 0.008099
Std Dev 0.9592

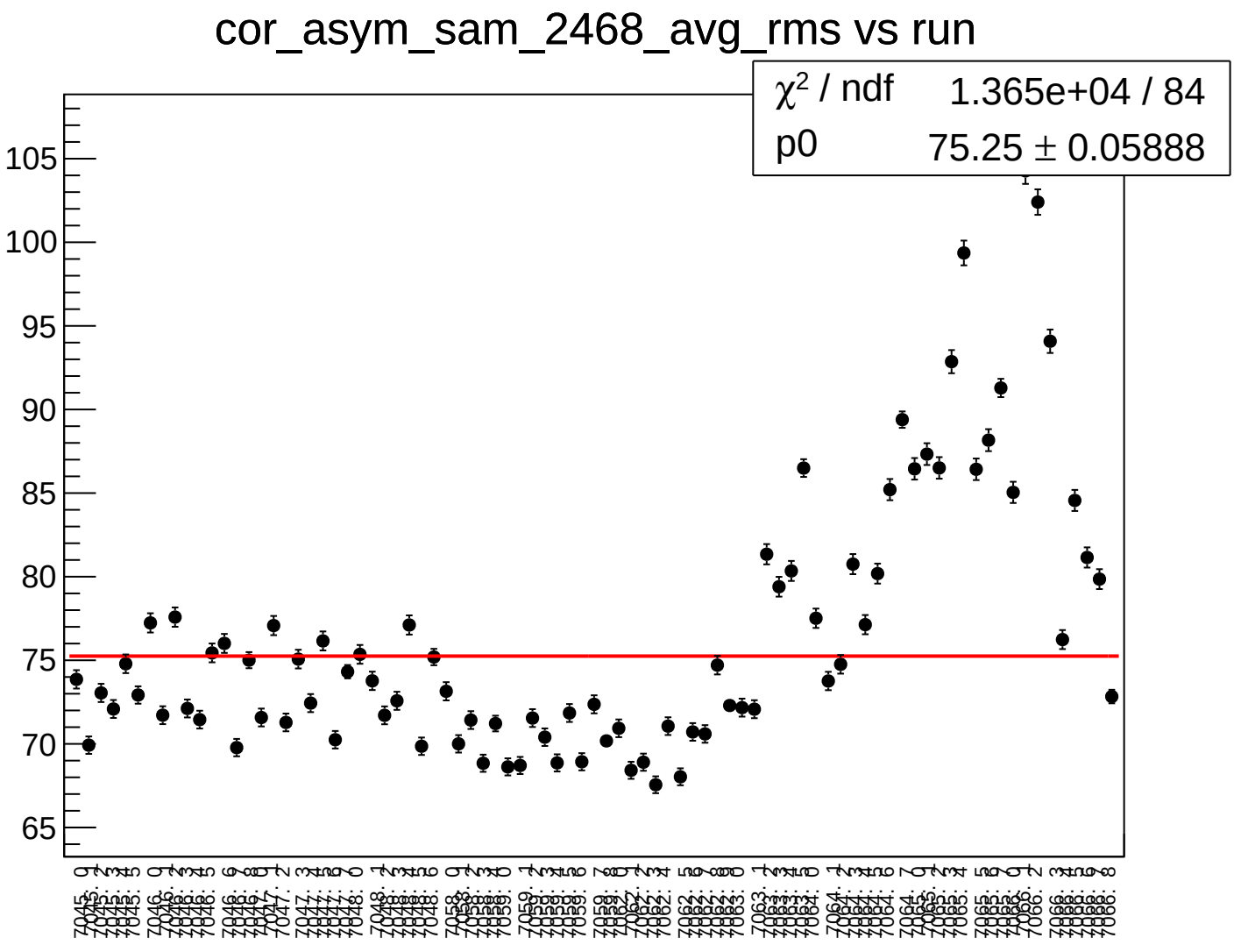

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.365e+04 / 84
p0 75.25 ± 0.05888
105
100
95
90
85
80
75
70
65

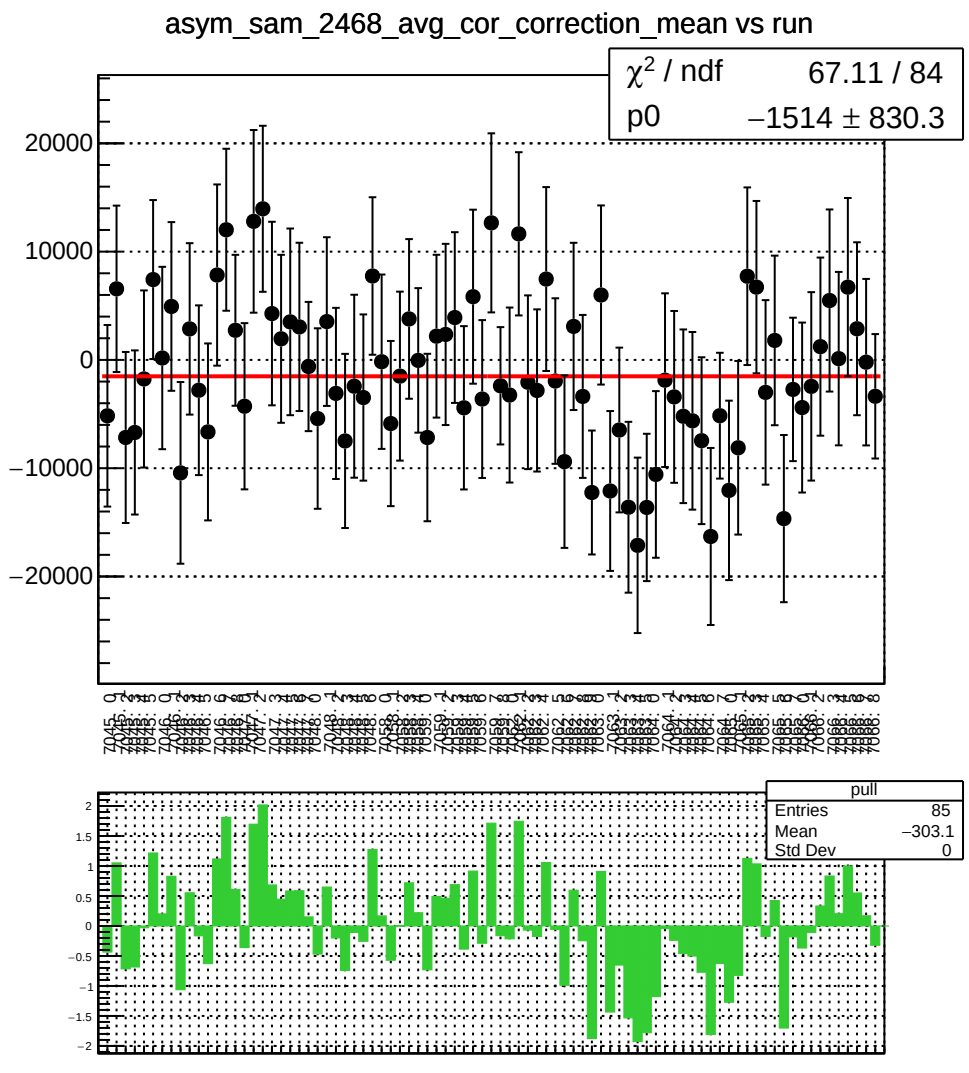

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 67.11 / 84
p0 −1514 ± 830.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −303.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

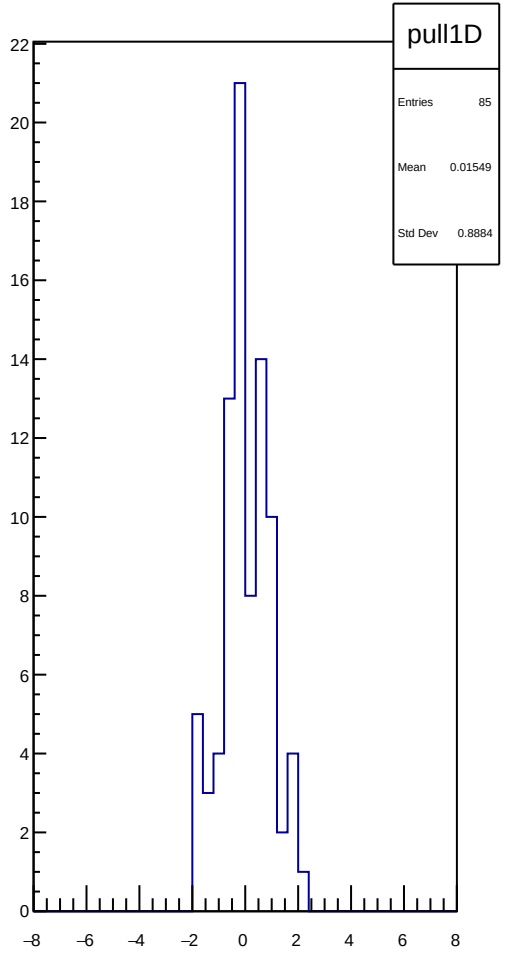

pull1D
Entries 85
Mean 0.01549
Std Dev 0.8884
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

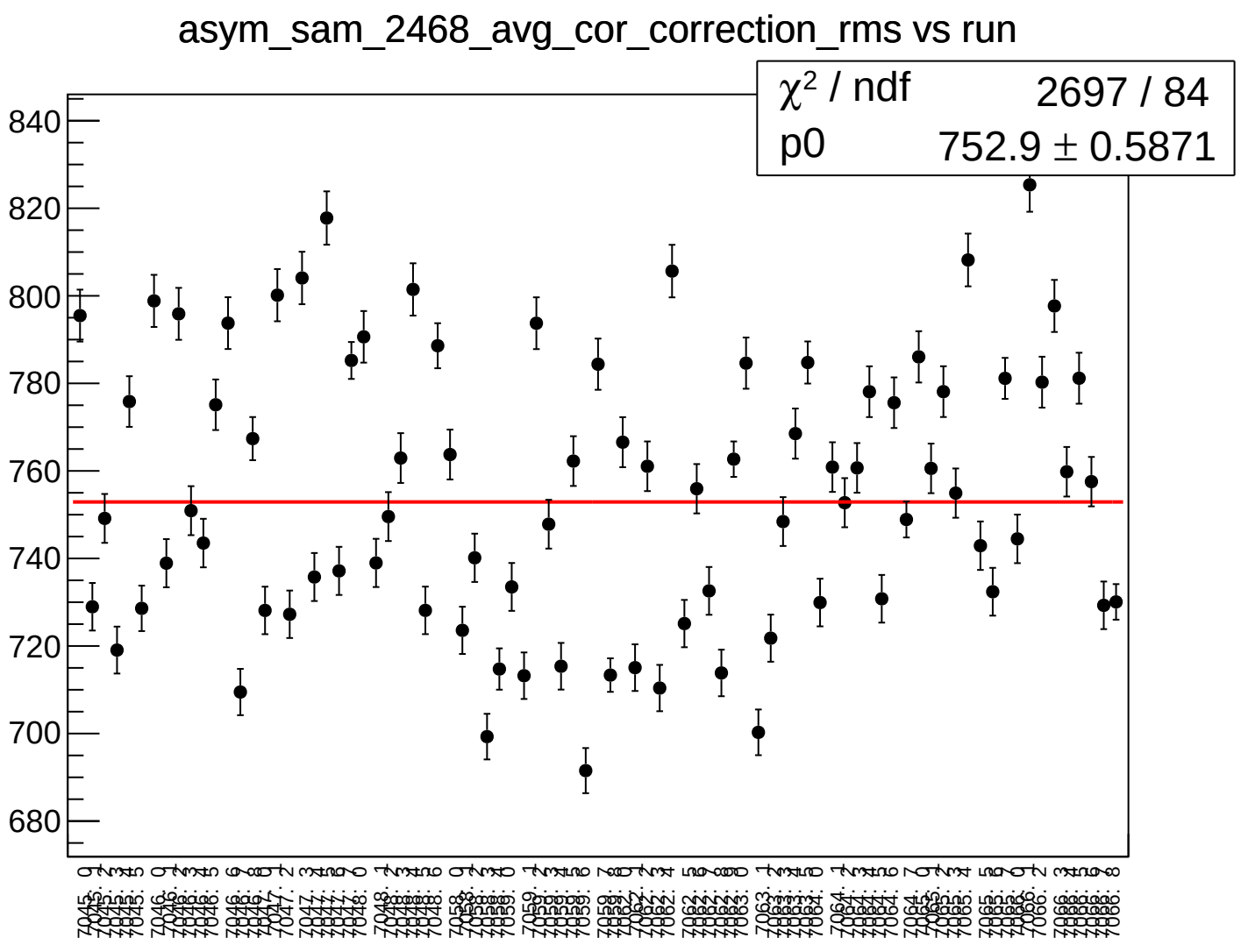

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2697 / 84
p0 752.9 ± 0.5871
840
820
800
780
760
740
720
700
680

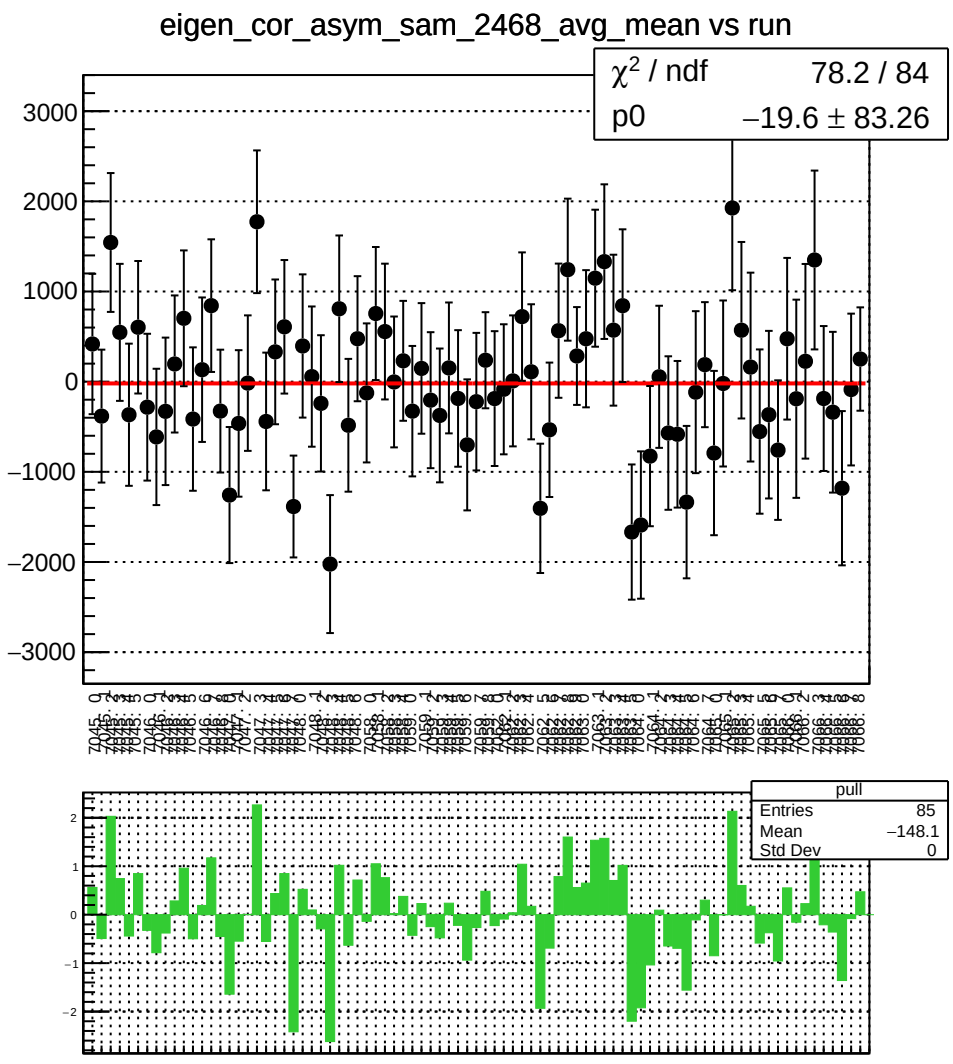

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 78.2 / 84
p0 −19.6 ± 83.26
pull
Entries 85
Mean −148.1
Std Dev 0
pull1D
Entries 85
Mean 0.008096
Std Dev 0.9591

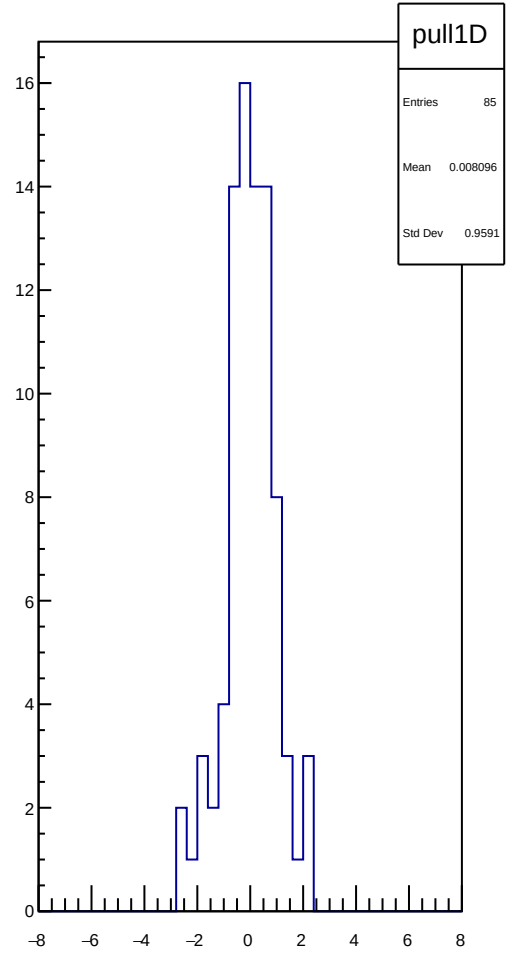

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.365e+04 / 84
p0 75.25 ± 0.05888
105
100
95
90
85
80
75
70
65

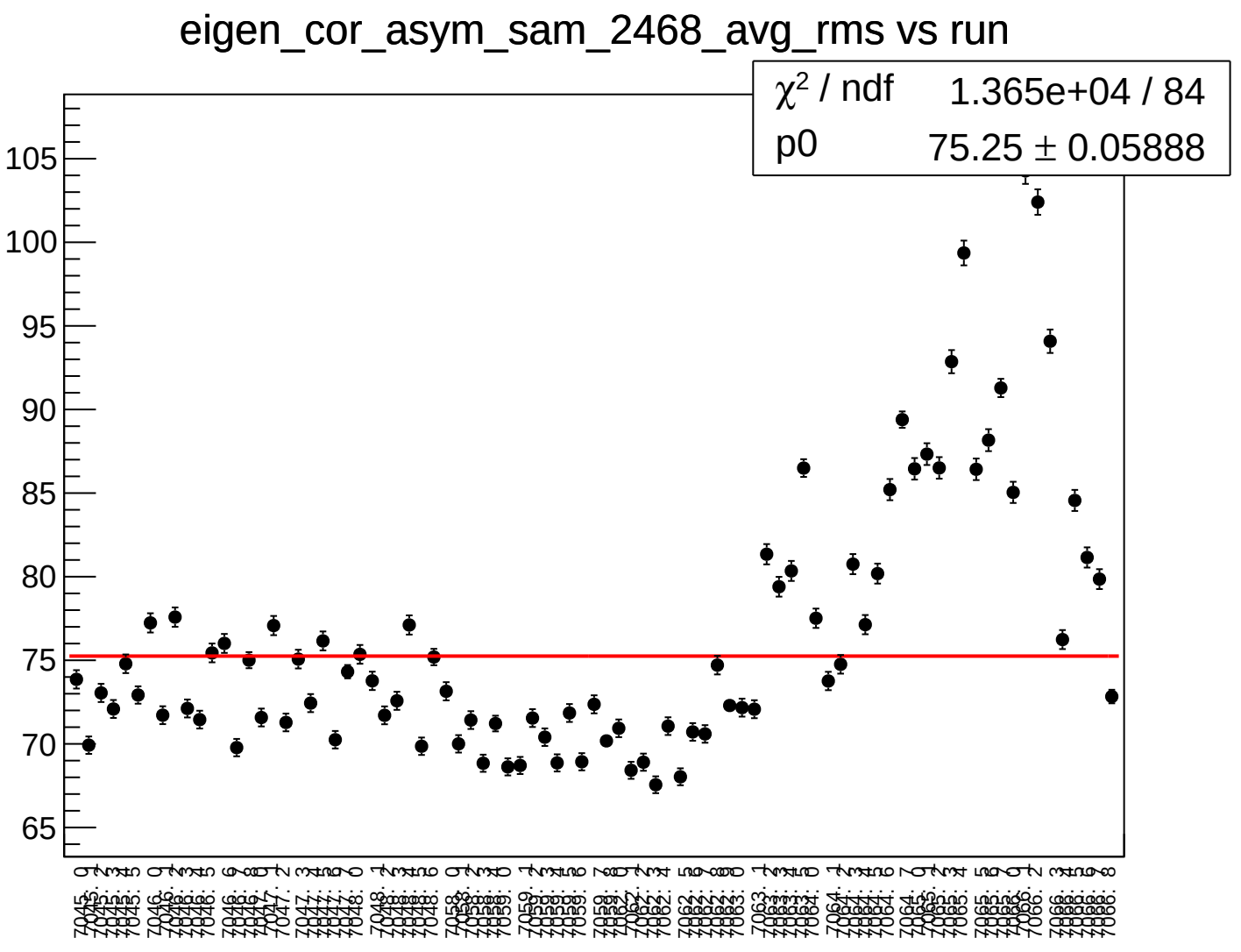

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 67.11 / 84
p0 −1514 ± 830.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −303.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

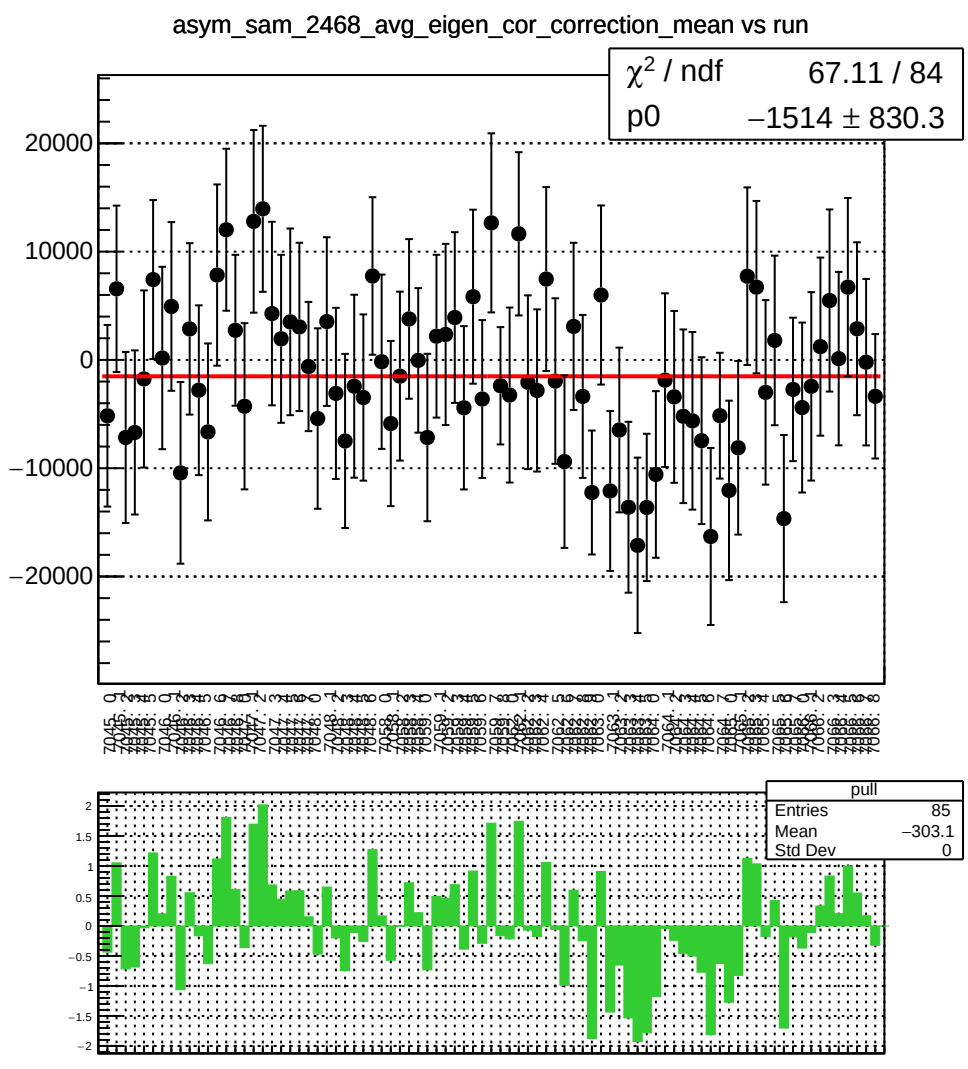

pull1D
Entries 85
Mean 0.01549
Std Dev 0.8884
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

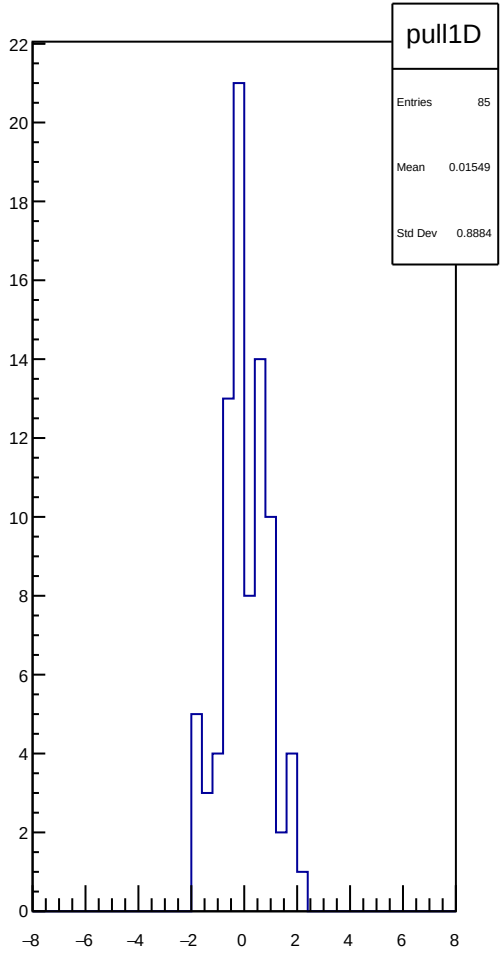

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2697 / 84
p0 752.9 ± 0.5871
840
820
800
780
760
740
720
700
680

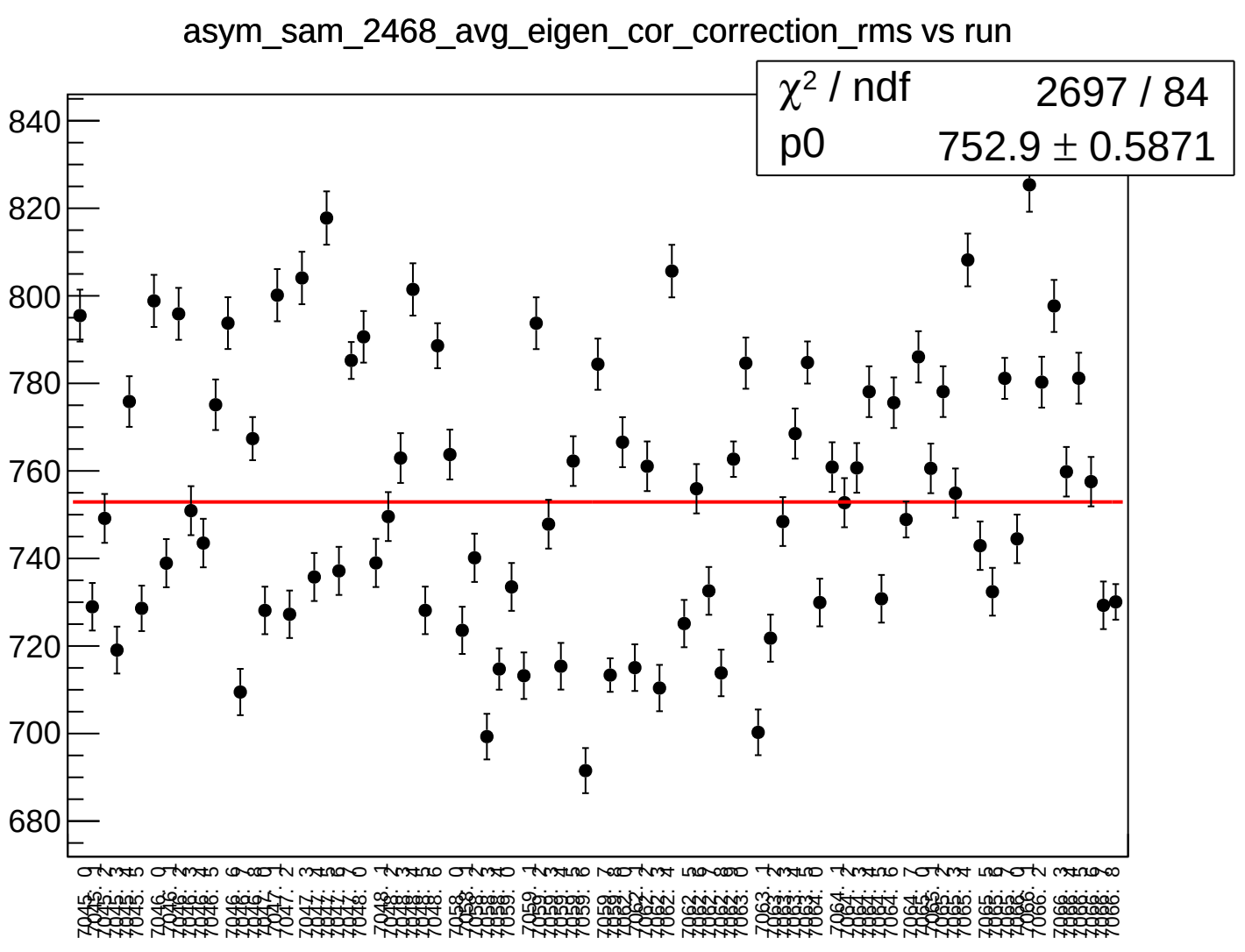

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 78.2 / 84
p0 −19.6 ± 83.26
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −148.1
Std Dev 0
2
1
0
−1
−2

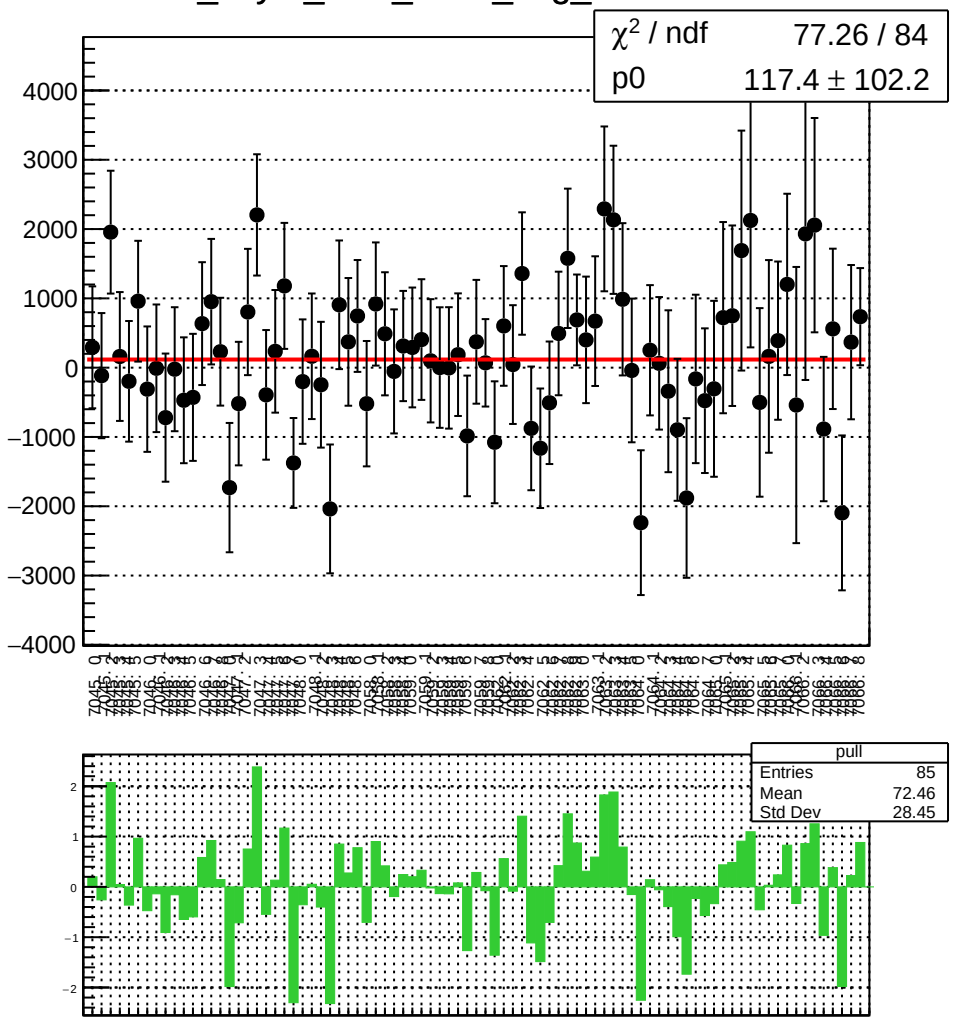

pull1D
Entries 85
Mean 0.008096
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

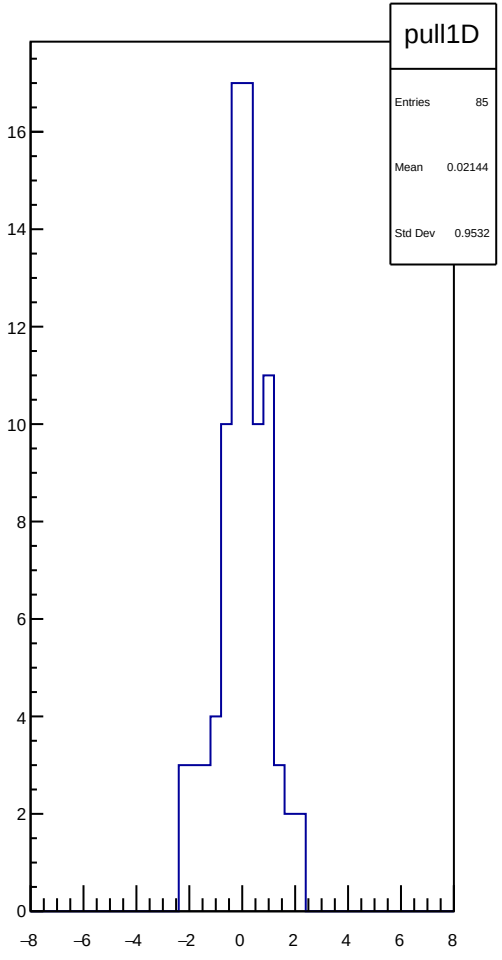

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.365e+04 / 84
p0 75.25 ± 0.05888
105
100
95
90
85
80
75
70
65

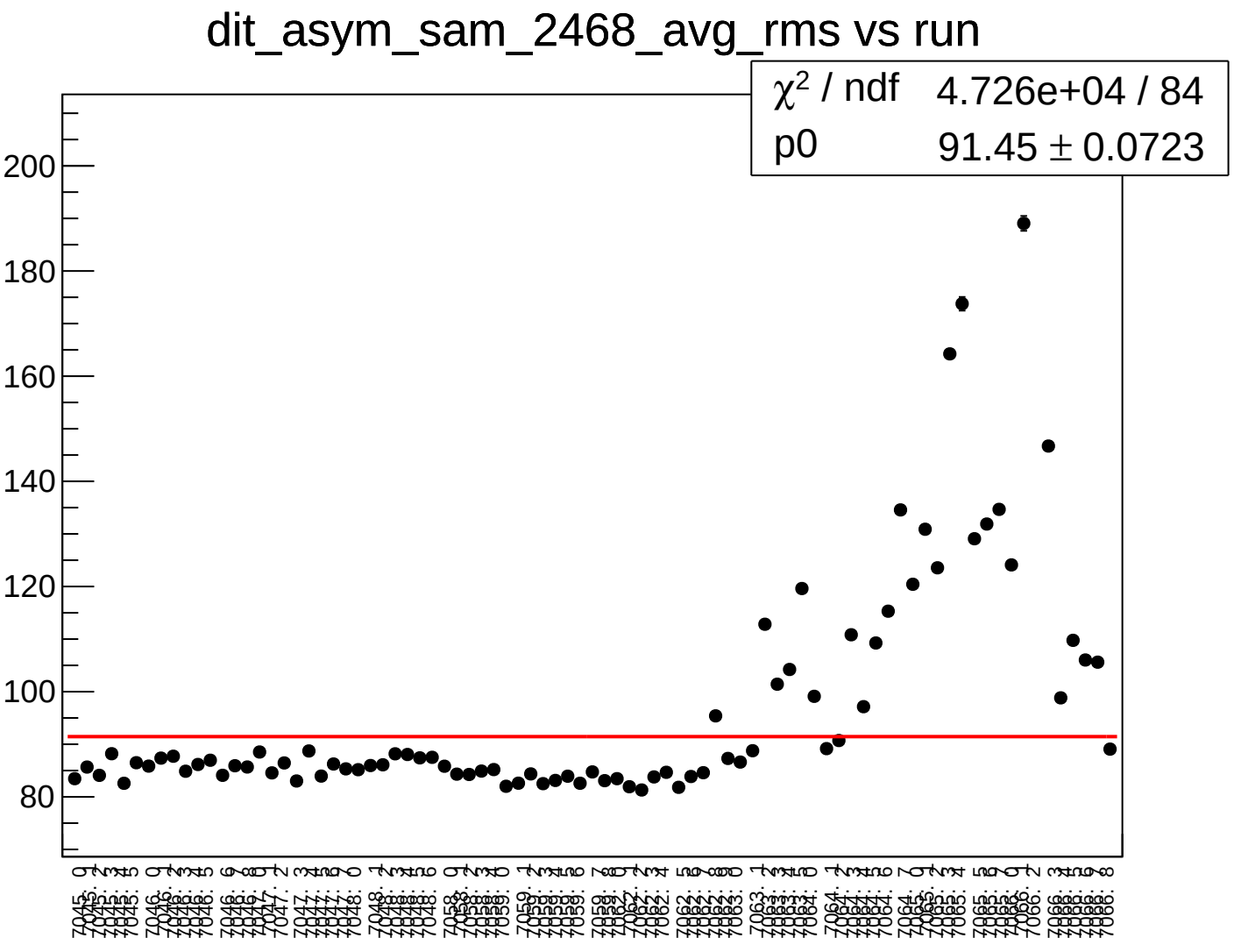

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.11 / 84
p0 −1514 ± 830.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −303.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

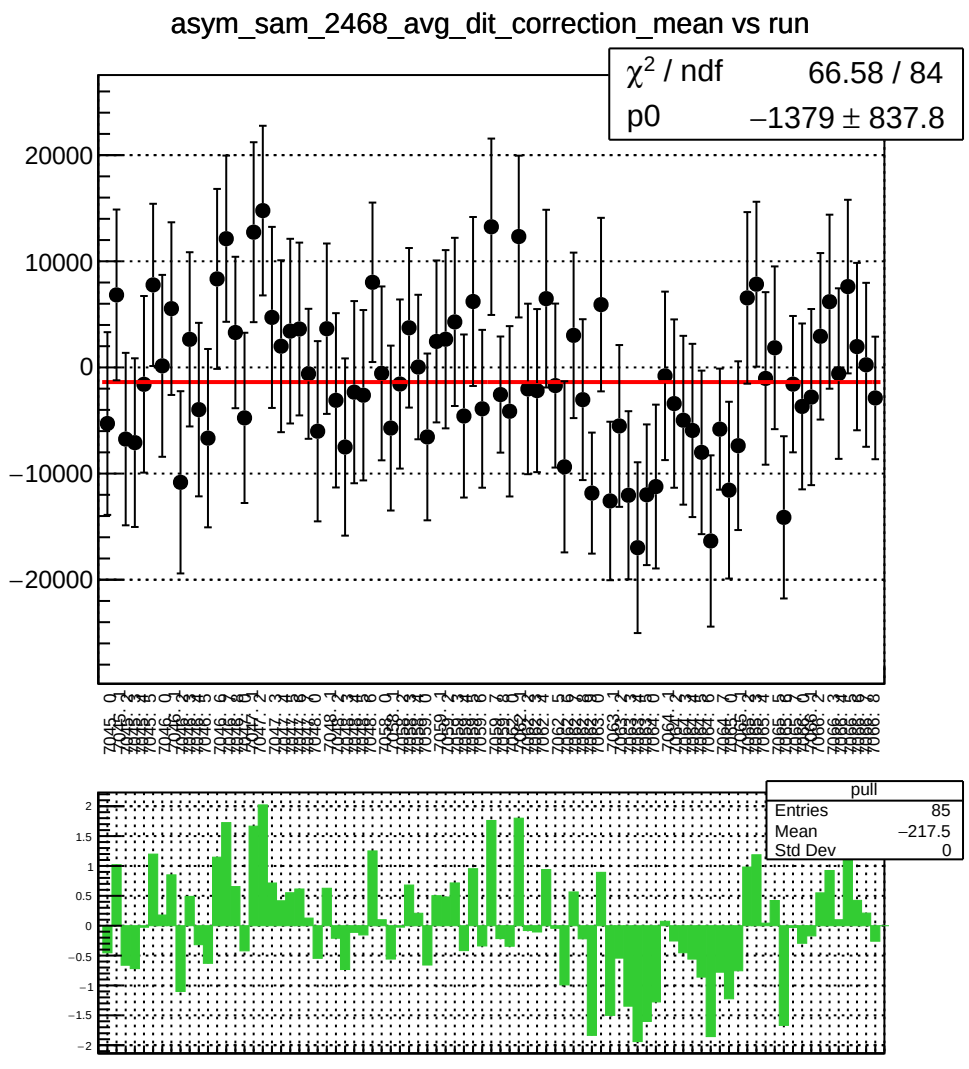

pull1D
Entries 85
Mean 0.01549
Std Dev 0.8884
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

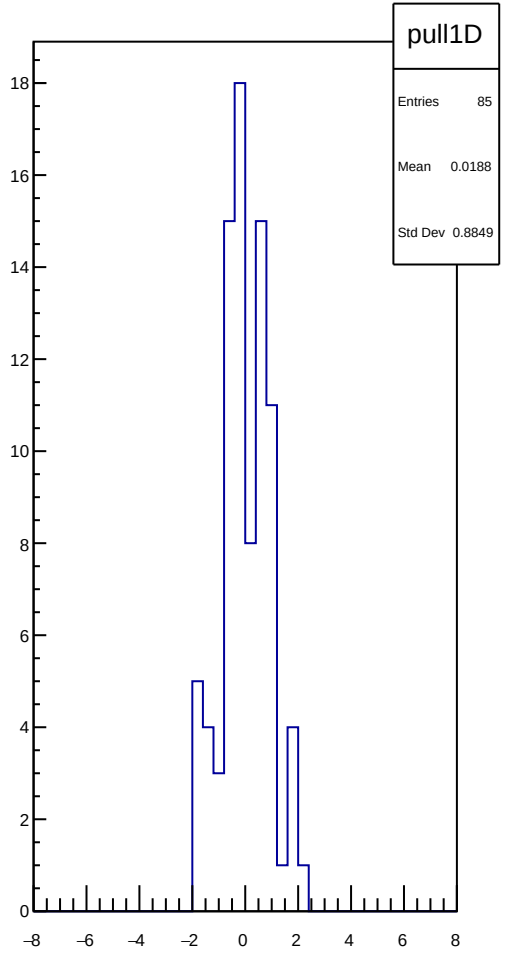

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2697 / 84
p0 752.9 ± 0.5871
840
820
800
780
760
740
720
700
680

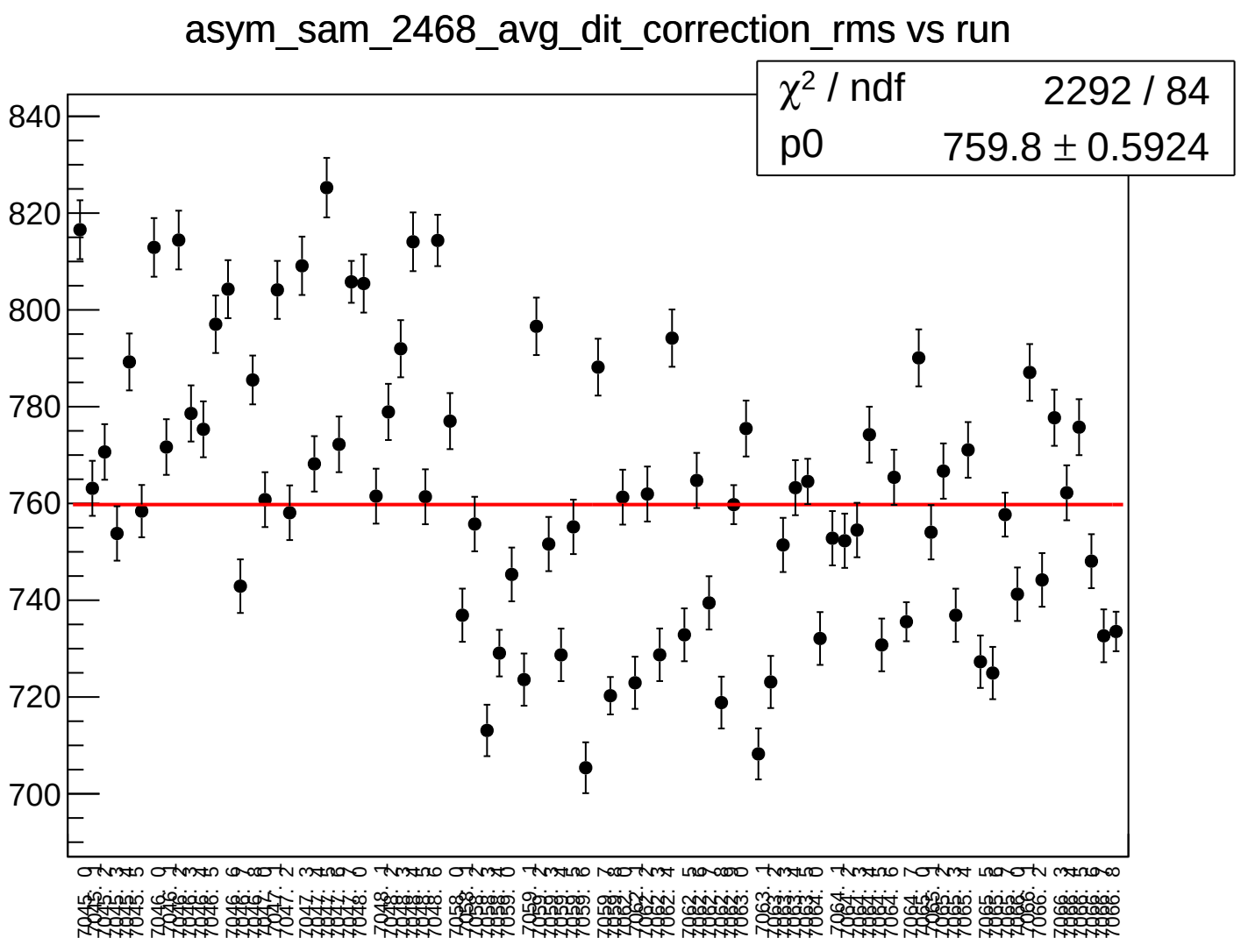

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 77.26 / 84
p0 117.4 ± 102.2
pull
Entries 85
Mean 72.46
Std Dev 28.45

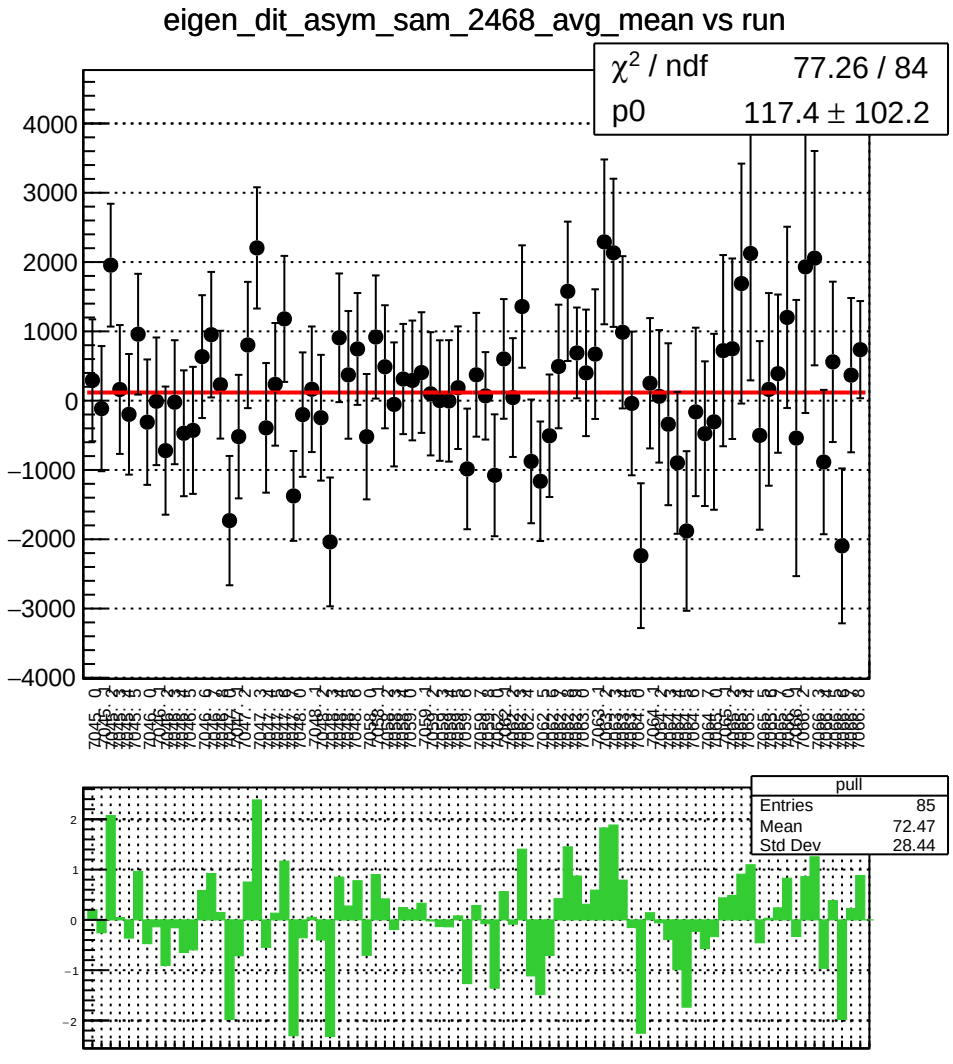

pull1D
Entries 85
Mean 0.02144
Std Dev 0.9532

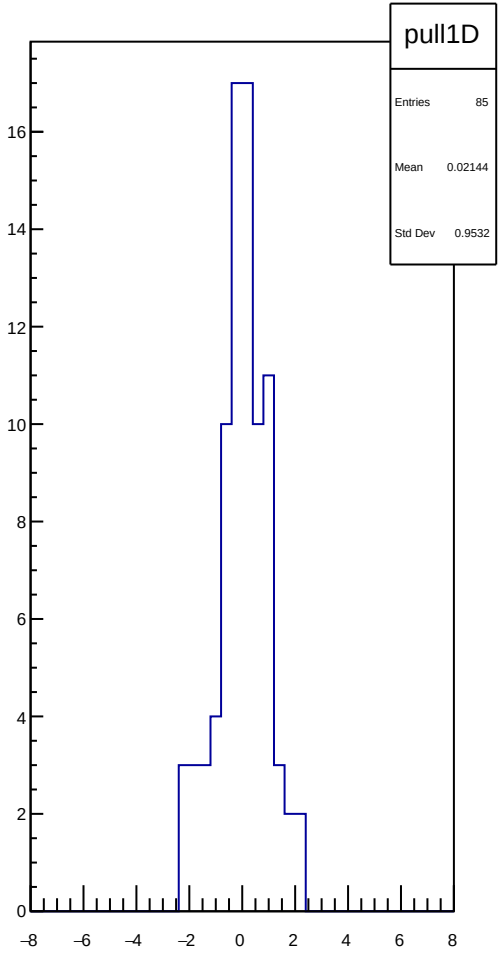

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.726e+04 / 84
p0 91.45 ± 0.0723
200
180
160
140
120
100
80

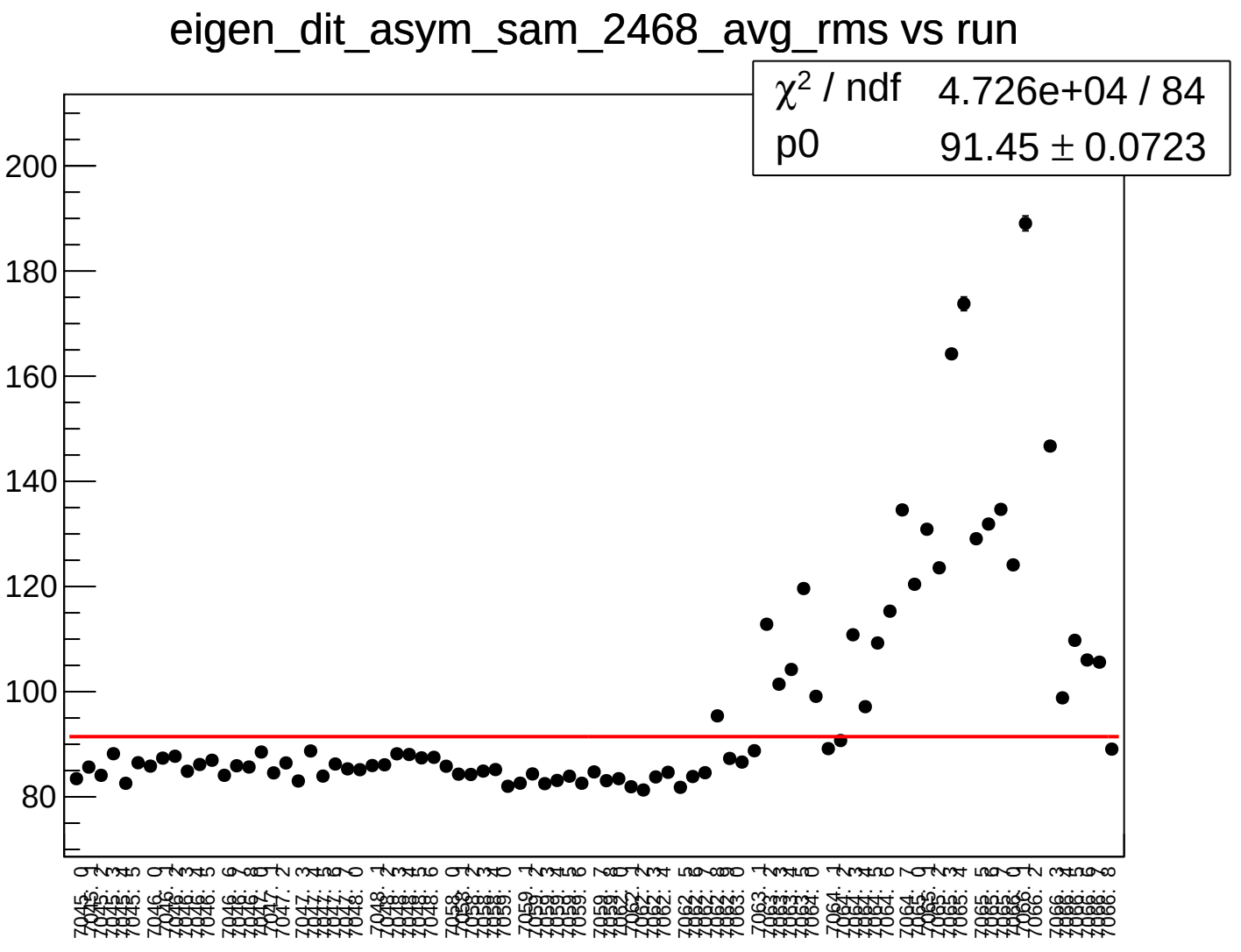

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 66.58 / 84
p0 −1379 ± 837.8
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −217.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

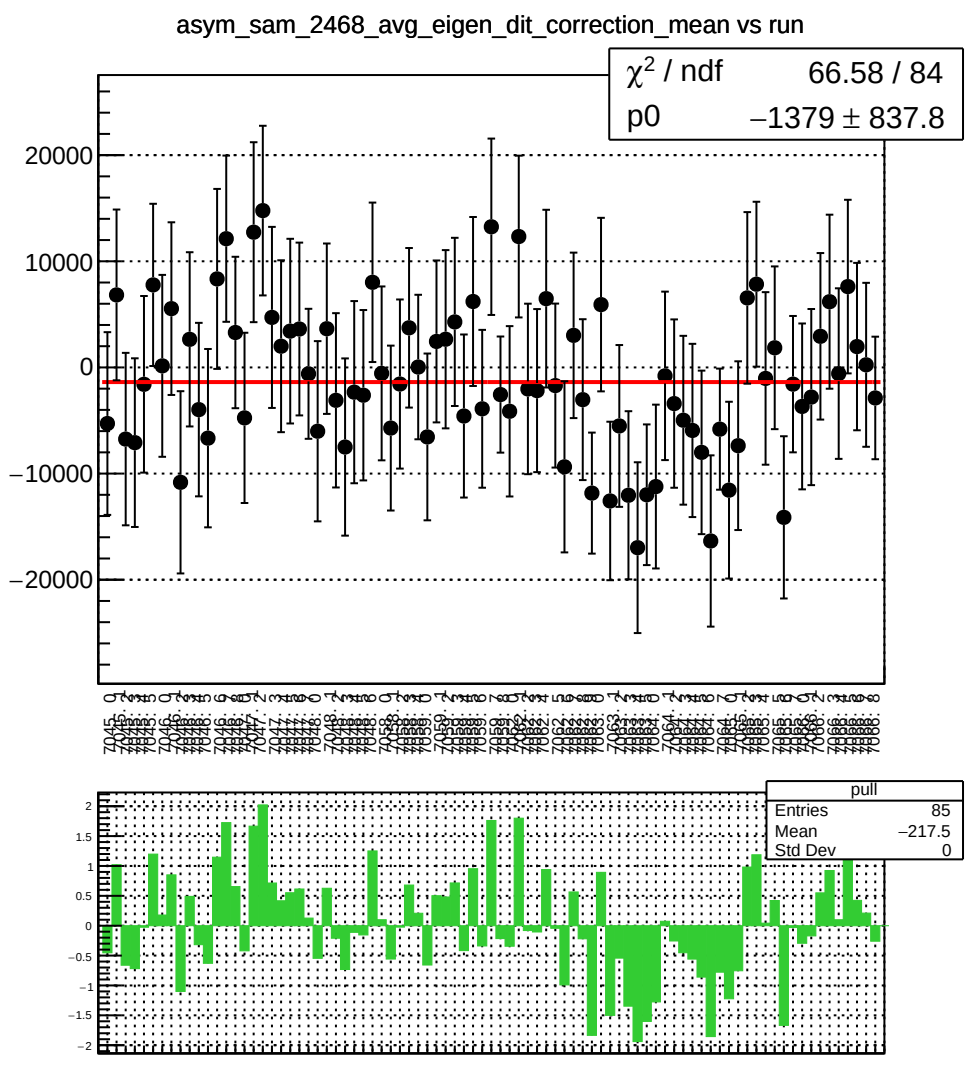

pull1D
Entries 85
Mean 0.0188
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

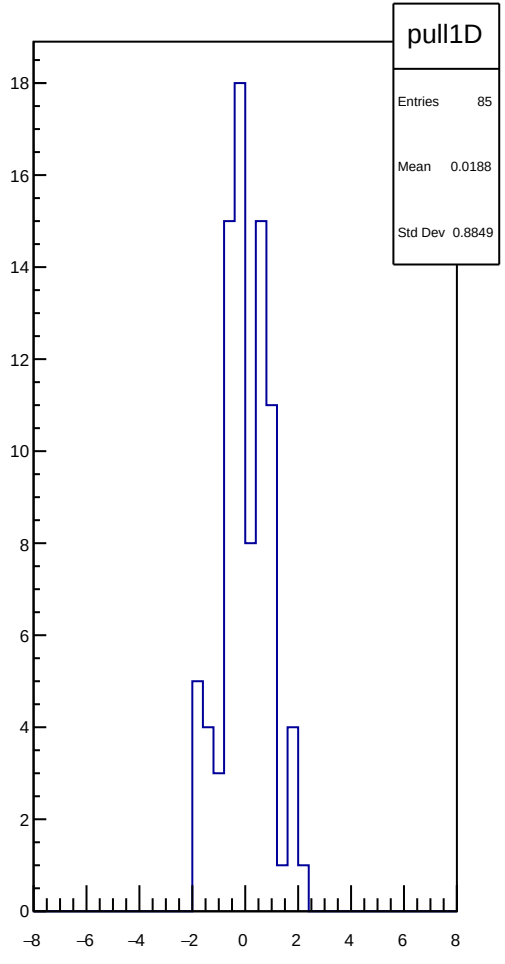

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2292 / 84
p0 759.8 ± 0.5924
840
820
800
780
760
740
720
700

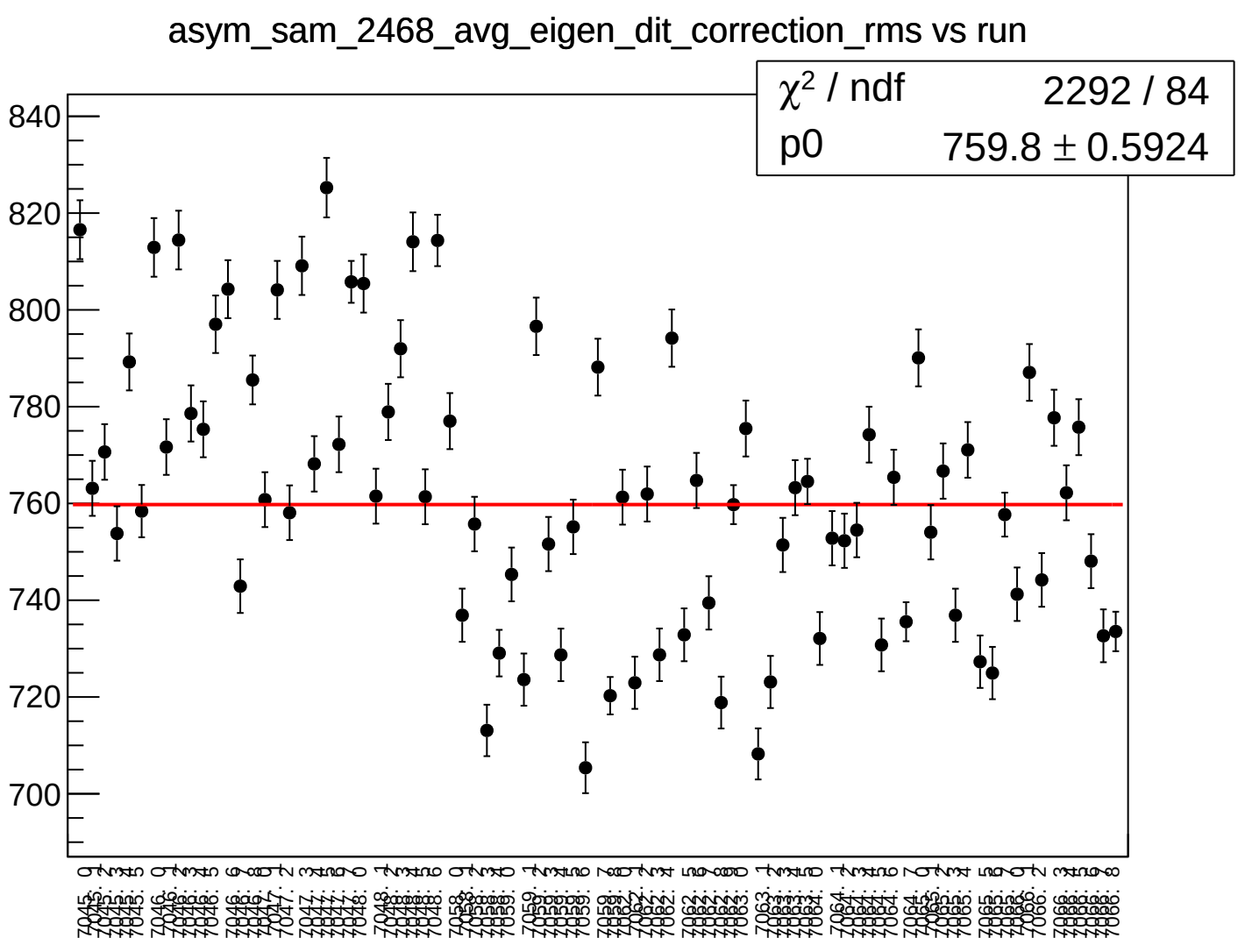

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 77.26 / 84
p0 117.4 ± 102.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean 72.47
Std Dev 28.44
2
1
0
−1
−2

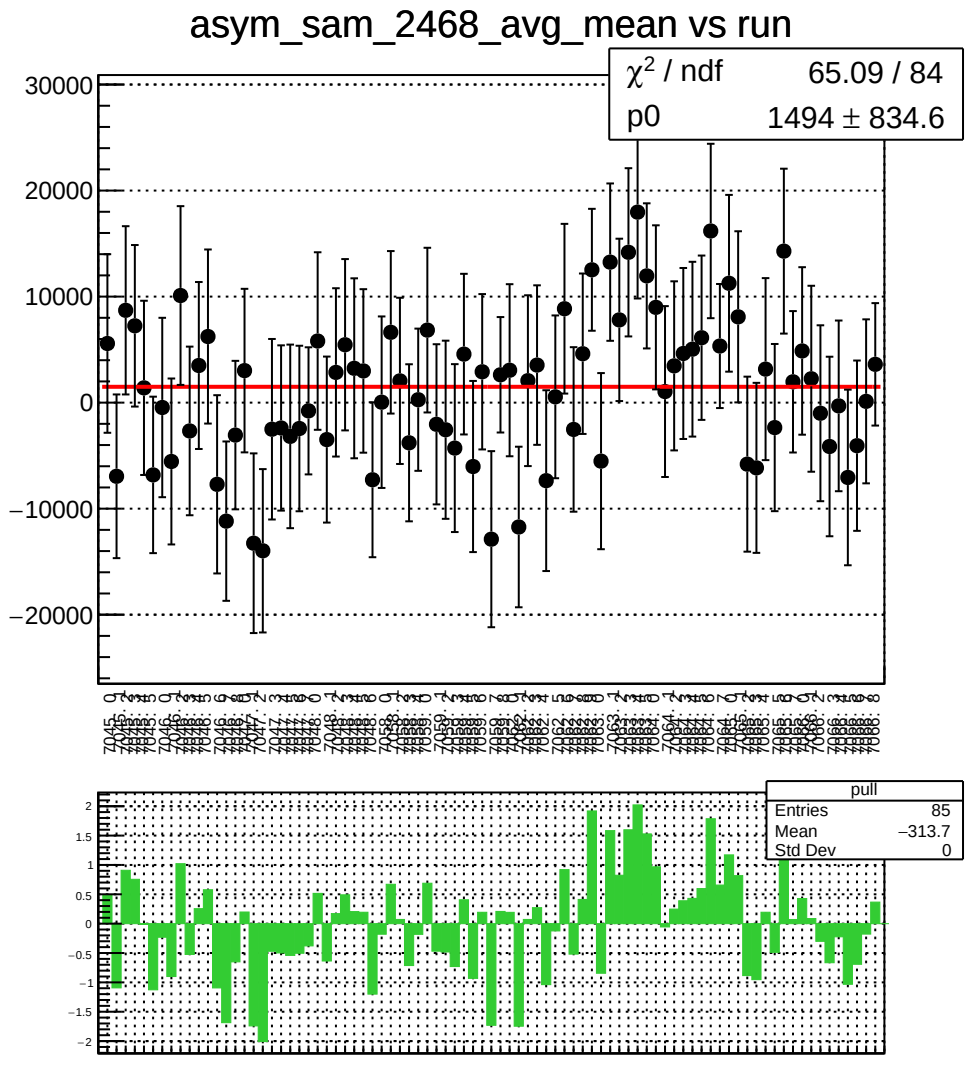

pull1D
Entries 85
Mean 0.02144
Std Dev 0.9532
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

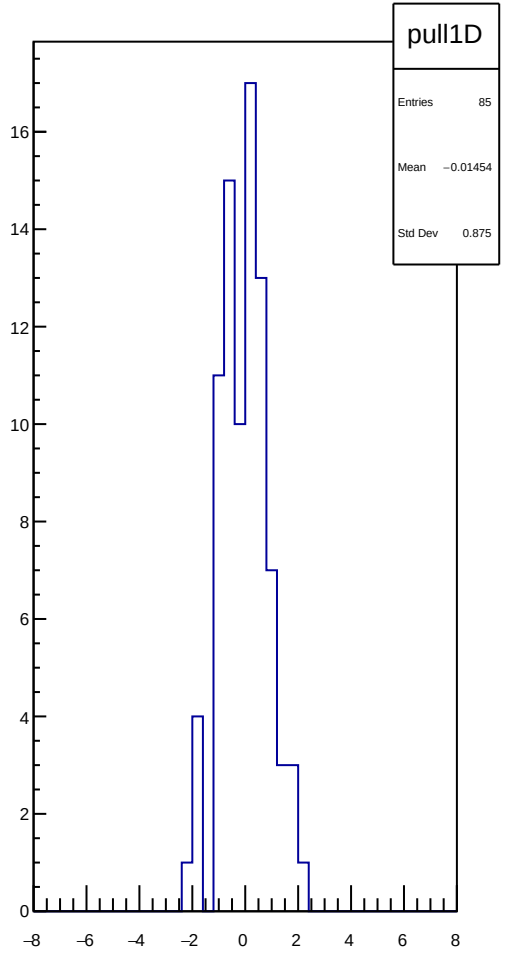

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.726e+04 / 84
p0 91.45 ± 0.0723
200
180
160
140
120
100
80

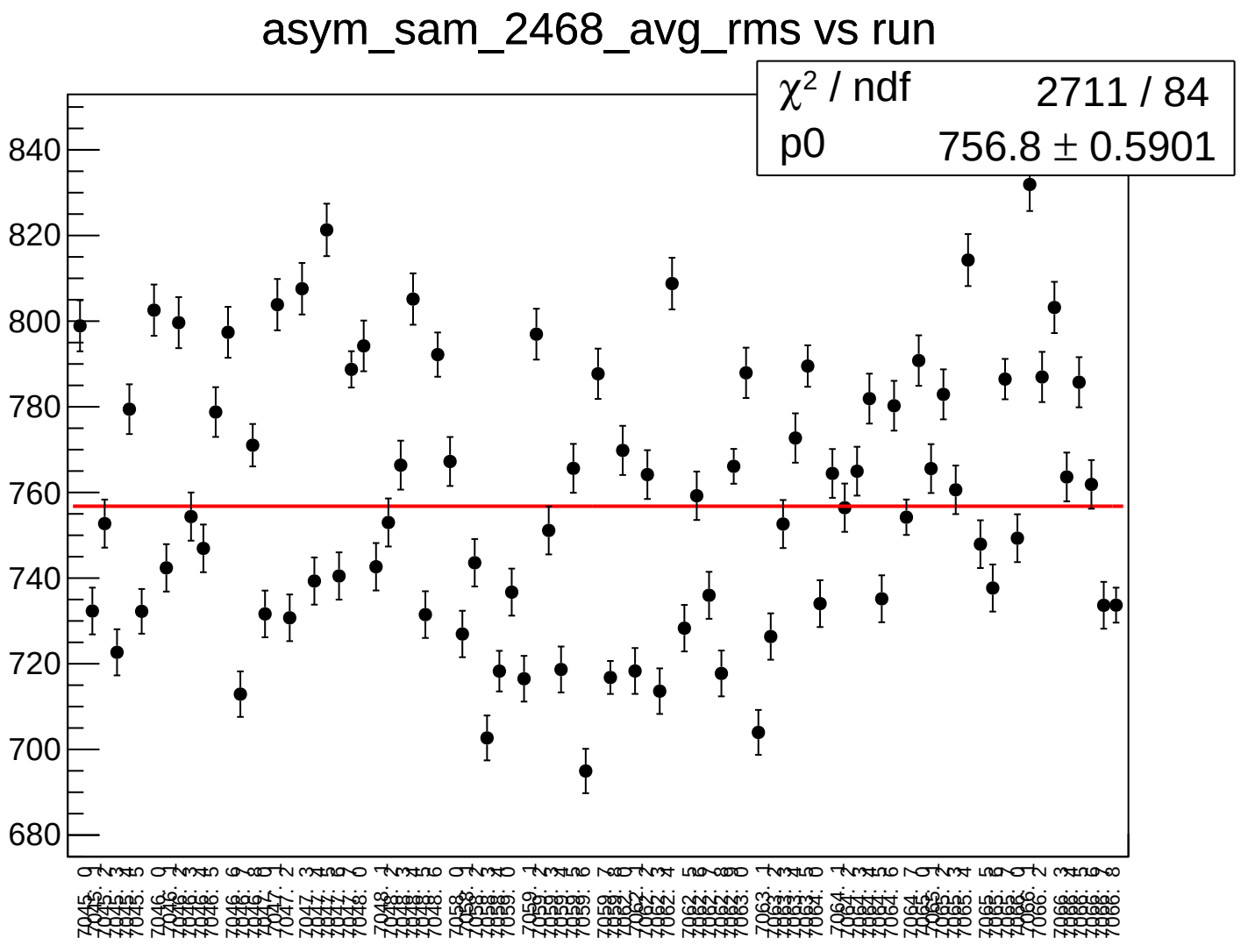

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.58 / 84
p0 −1379 ± 837.8
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −217.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

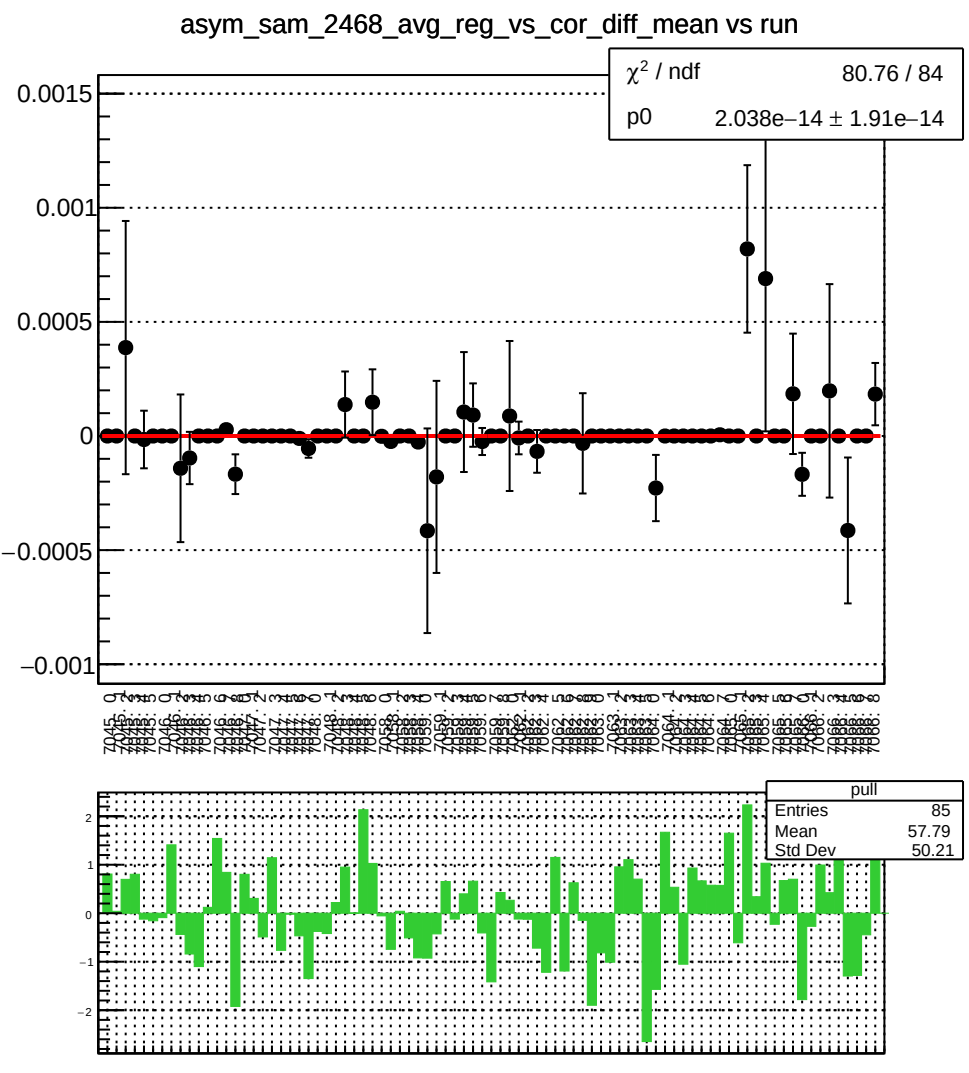

pull1D
Entries 85
Mean 0.0188
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

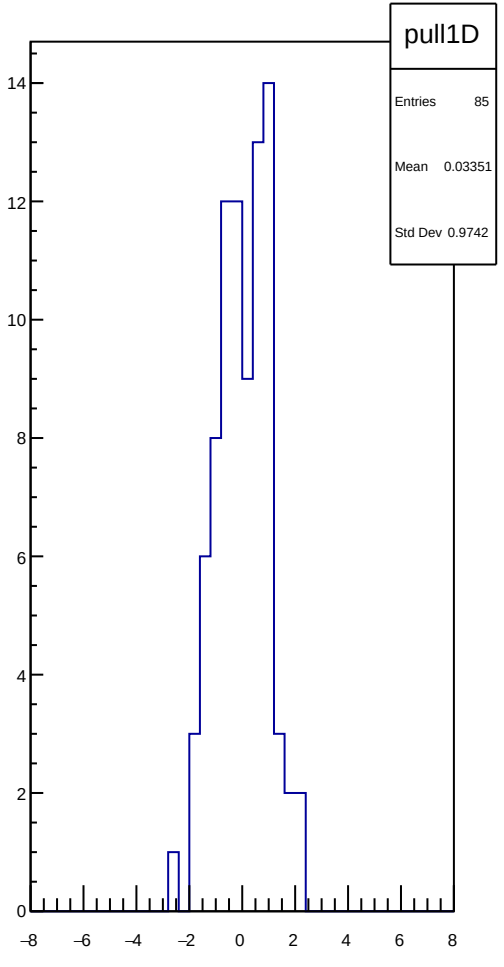

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2292 / 84
p0 759.8 ± 0.5924
840
820
800
780
760
740
720
700

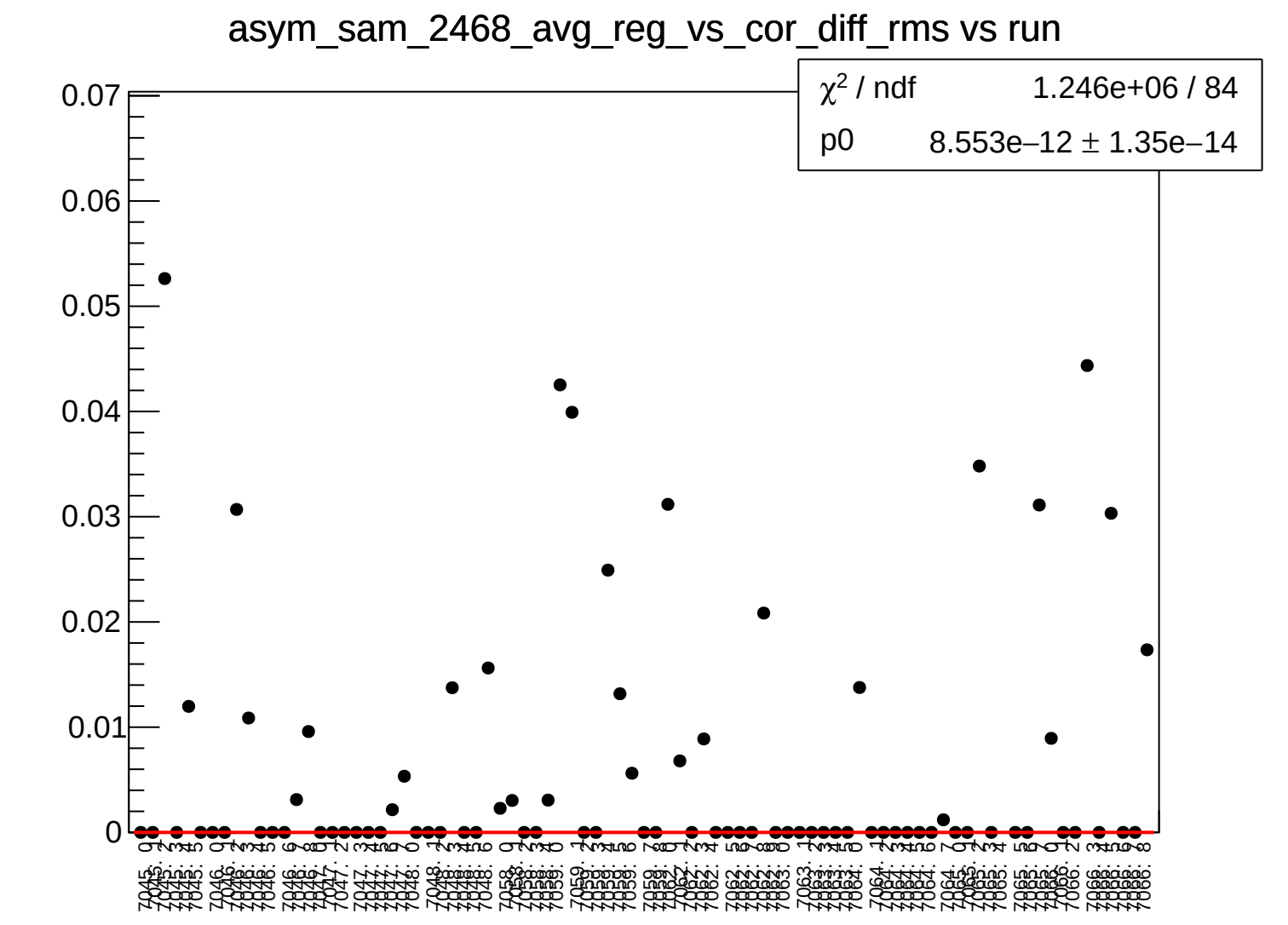

asym_sam_2468_avg_mean vs run
χ² / ndf 65.09 / 84
p0 1494 ± 834.6
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −313.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

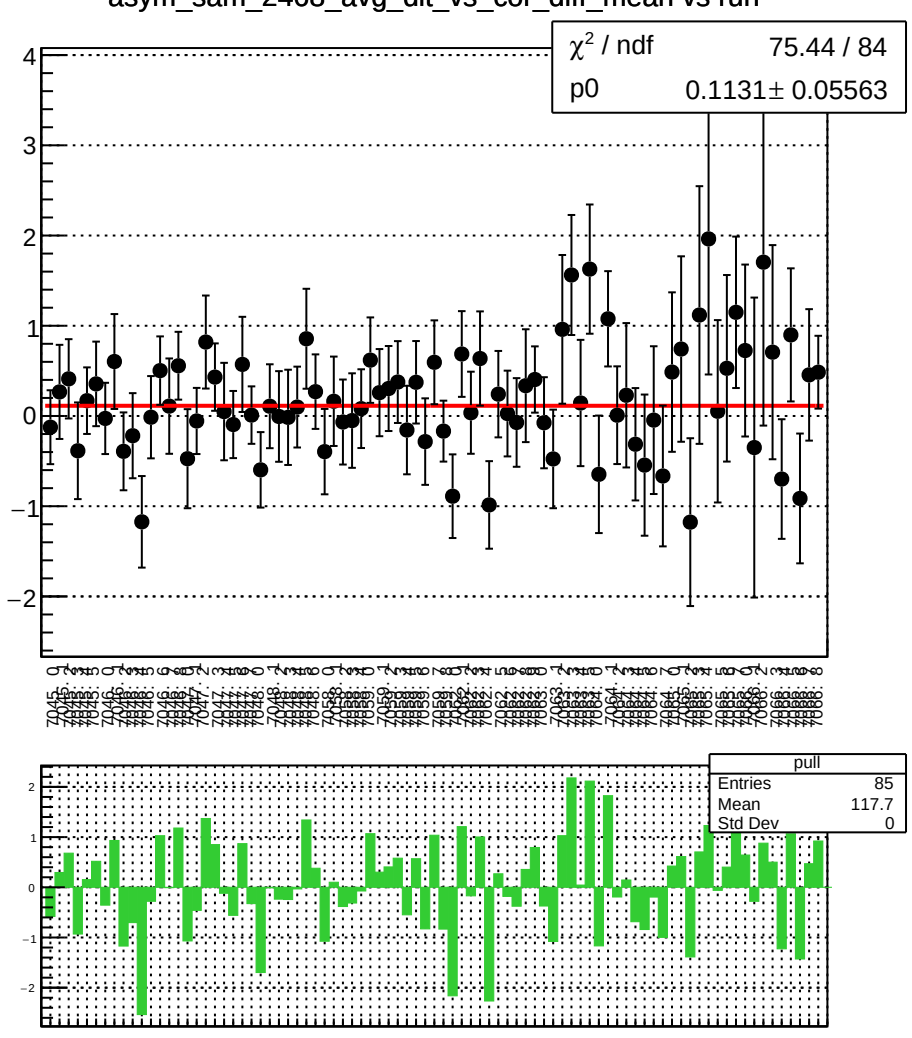

pull1D
Entries 85
Mean −0.01454
Std Dev 0.875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

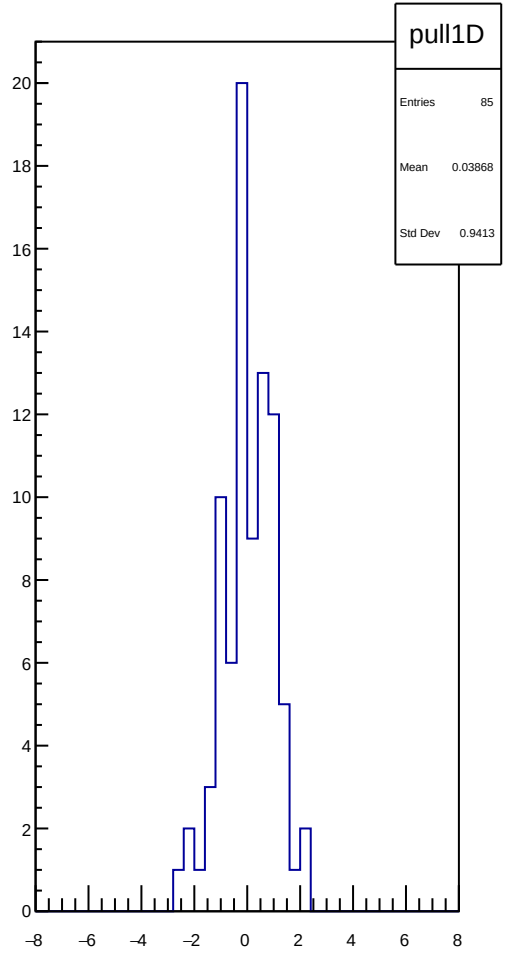

asym_sam_2468_avg_rms vs run
χ² / ndf 2711 / 84
p0 756.8 ± 0.5901
840
820
800
780
760
740
720
700
680

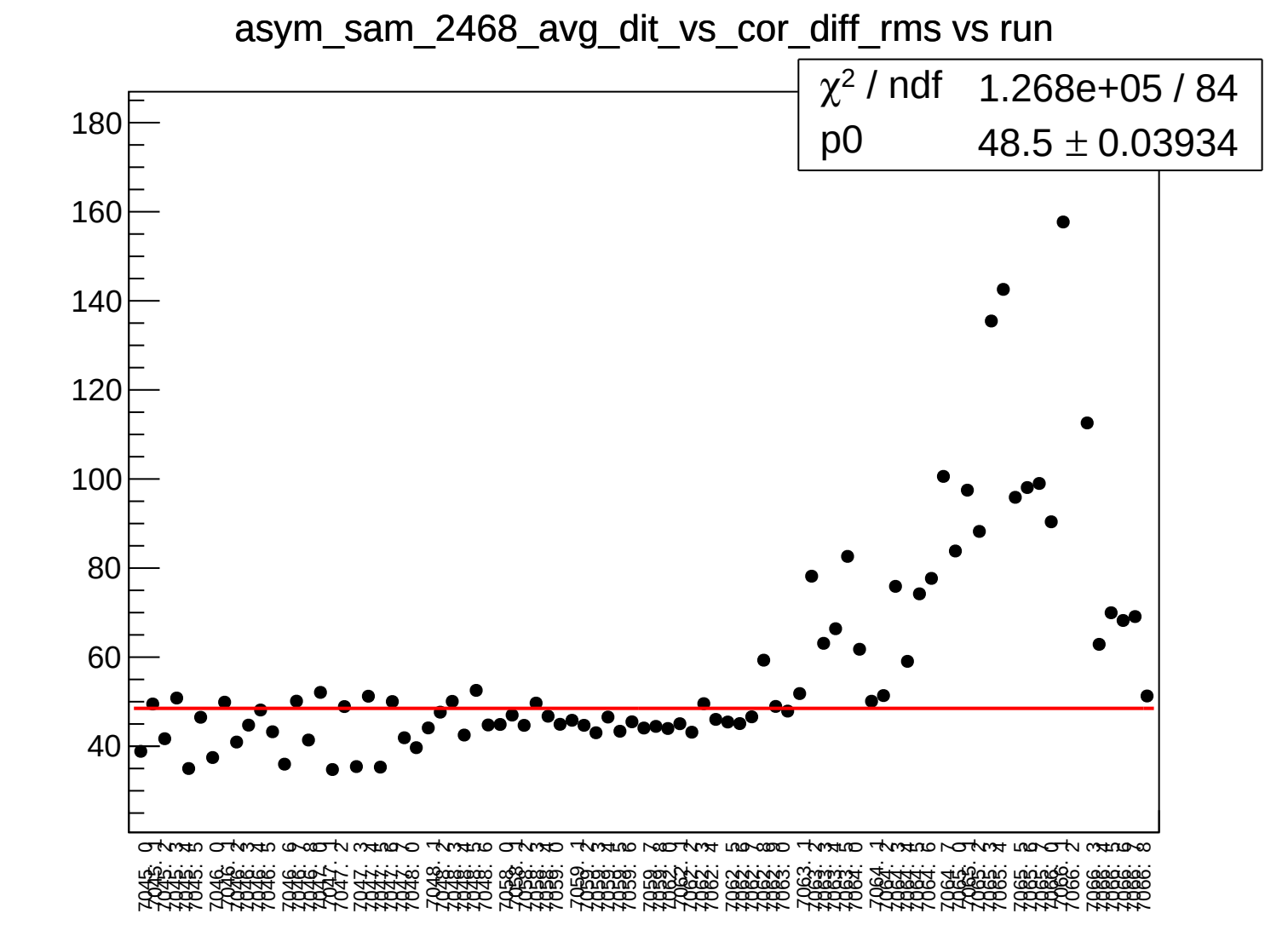

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.76 / 84
p0 2.038e−14 ± 1.91e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 57.79
Std Dev 50.21
2
1
0
−1
−2

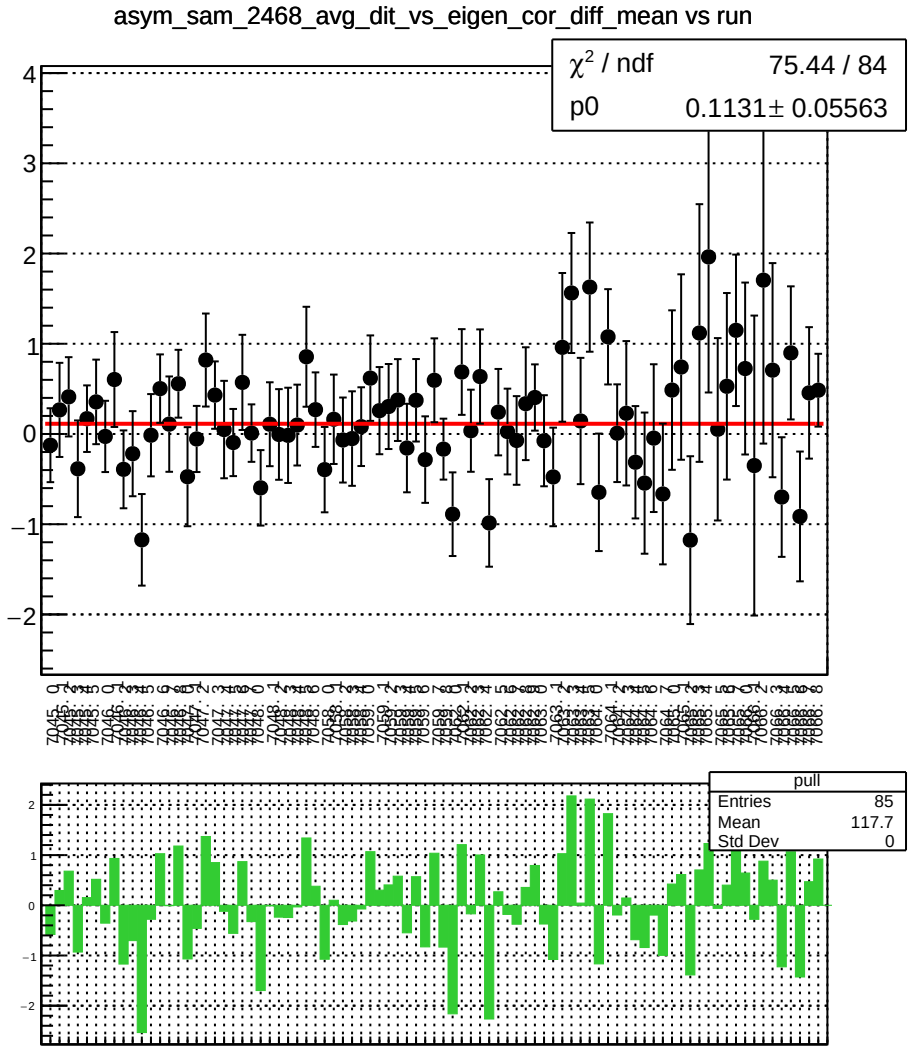

pull1D
Entries 85
Mean 0.03351
Std Dev 0.9742
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

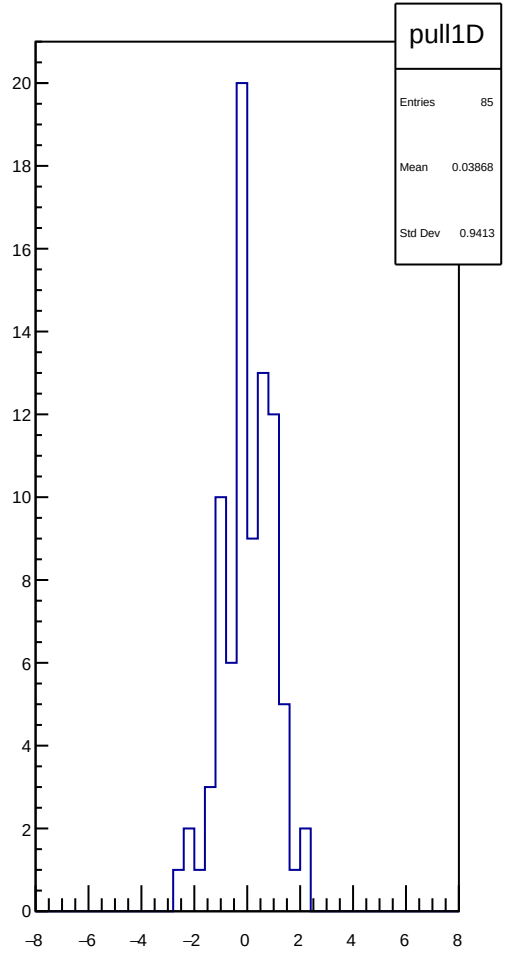

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.246e+06 / 84
p0 8.553e−12 ± 1.35e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

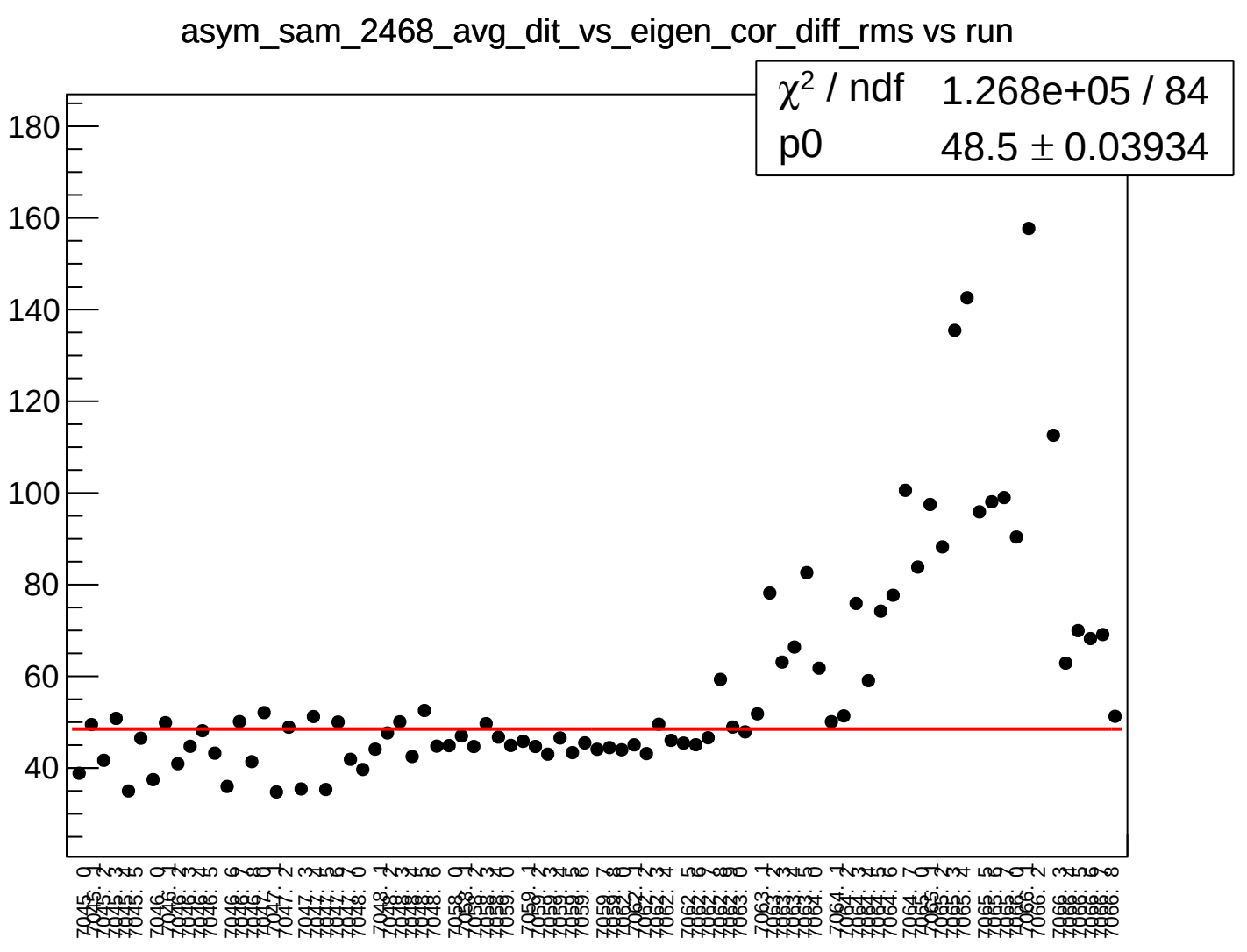

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.44 / 84
p0 0.1131± 0.05563
pull
Entries 85
Mean 117.7
Std Dev 0

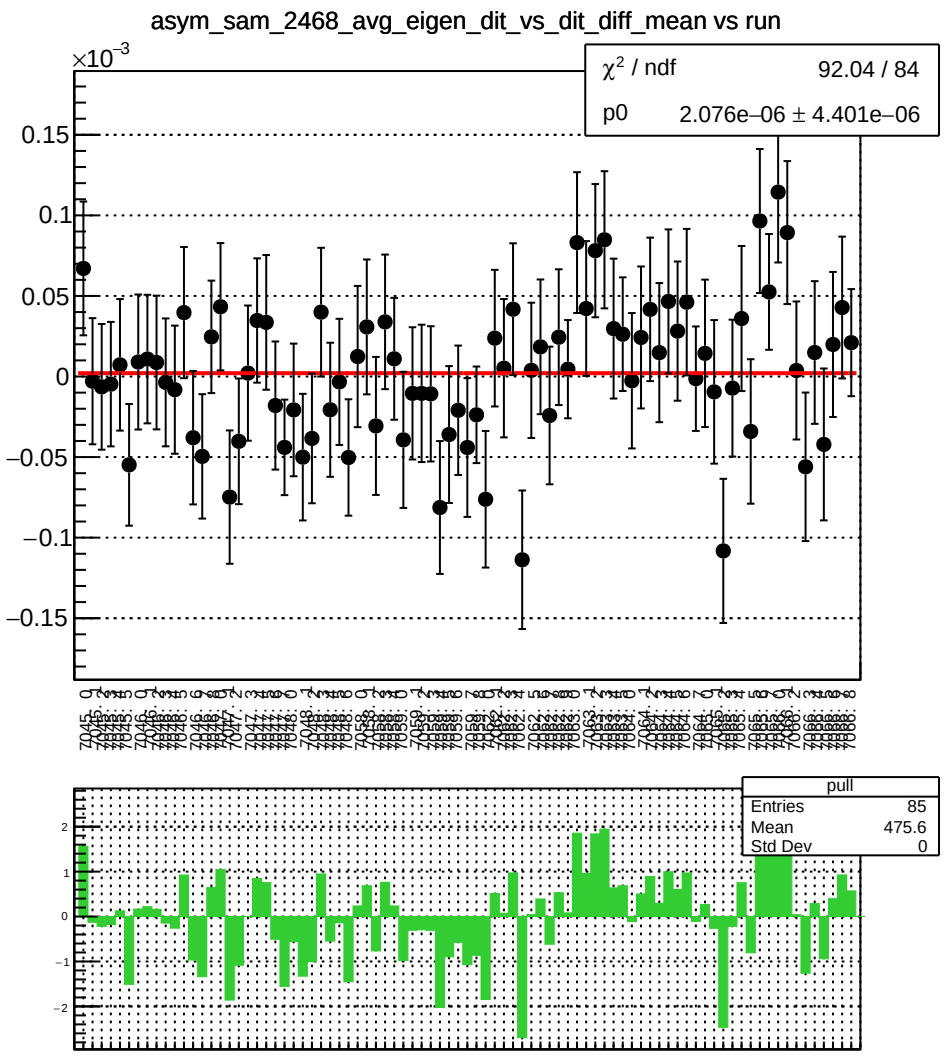

pull1D
Entries 85
Mean 0.03868
Std Dev 0.9413

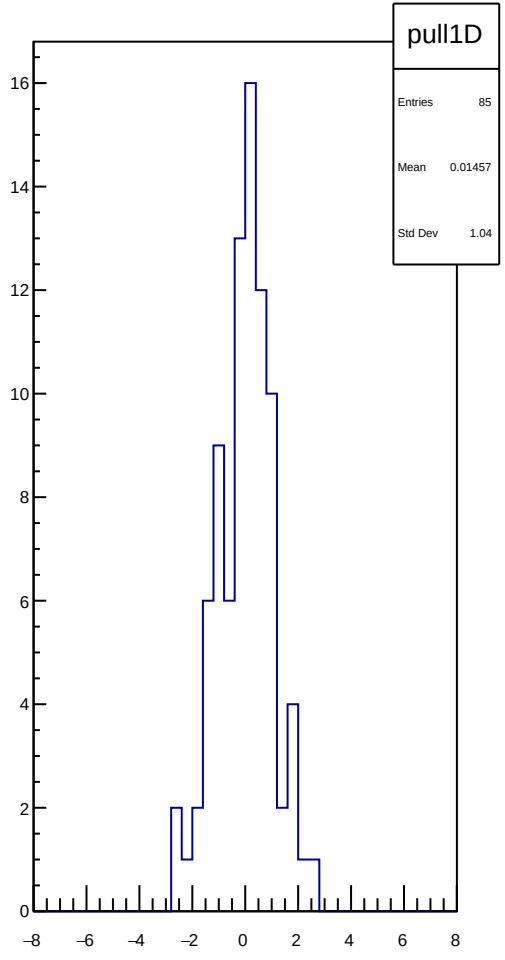

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 84
p0 48.5 ± 0.03934
180
160
140
120
100
80
60
40

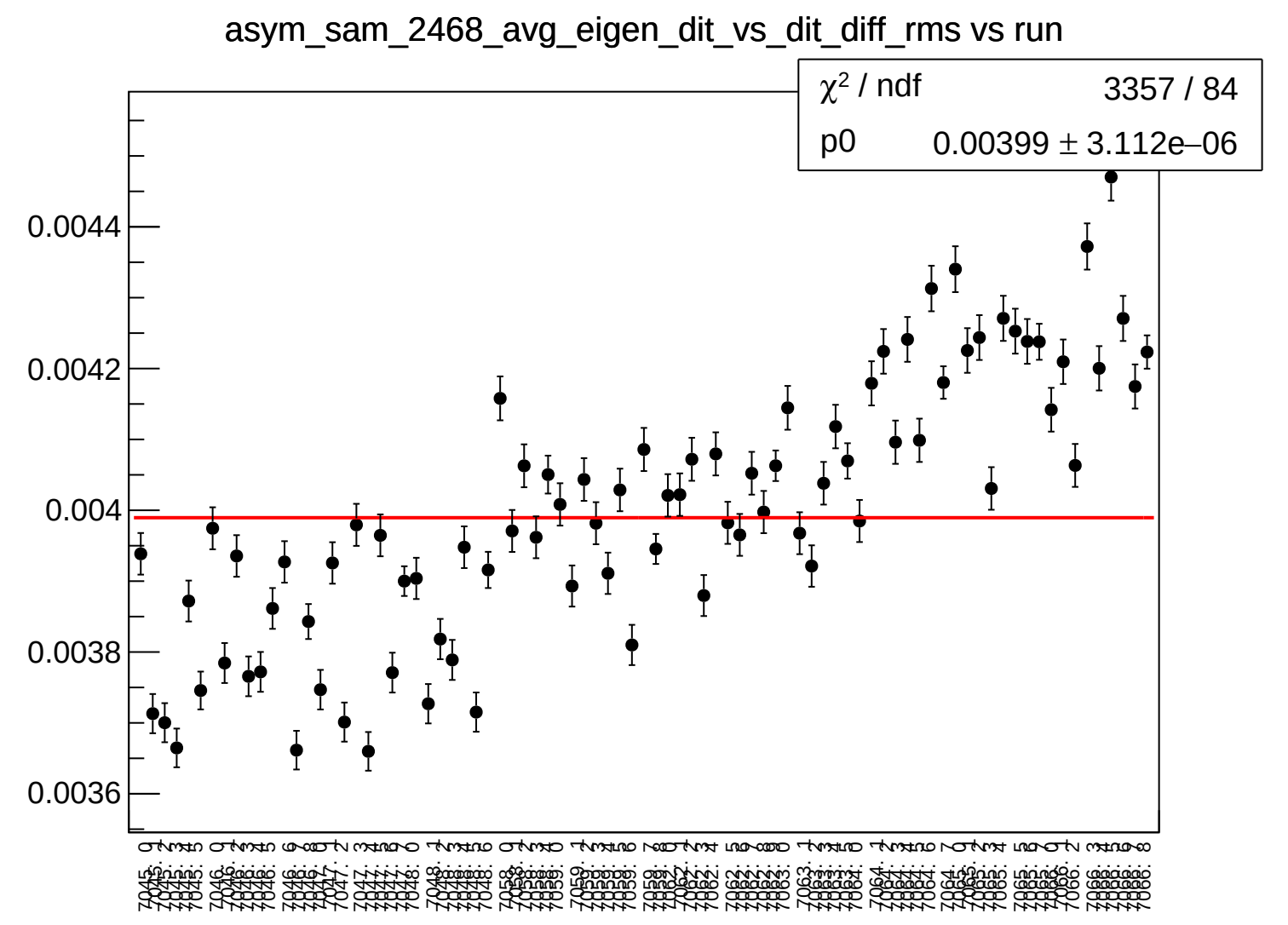

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.44 / 84
p0 0.1131± 0.05563
pull
Entries 85
Mean 117.7
Std Dev 0

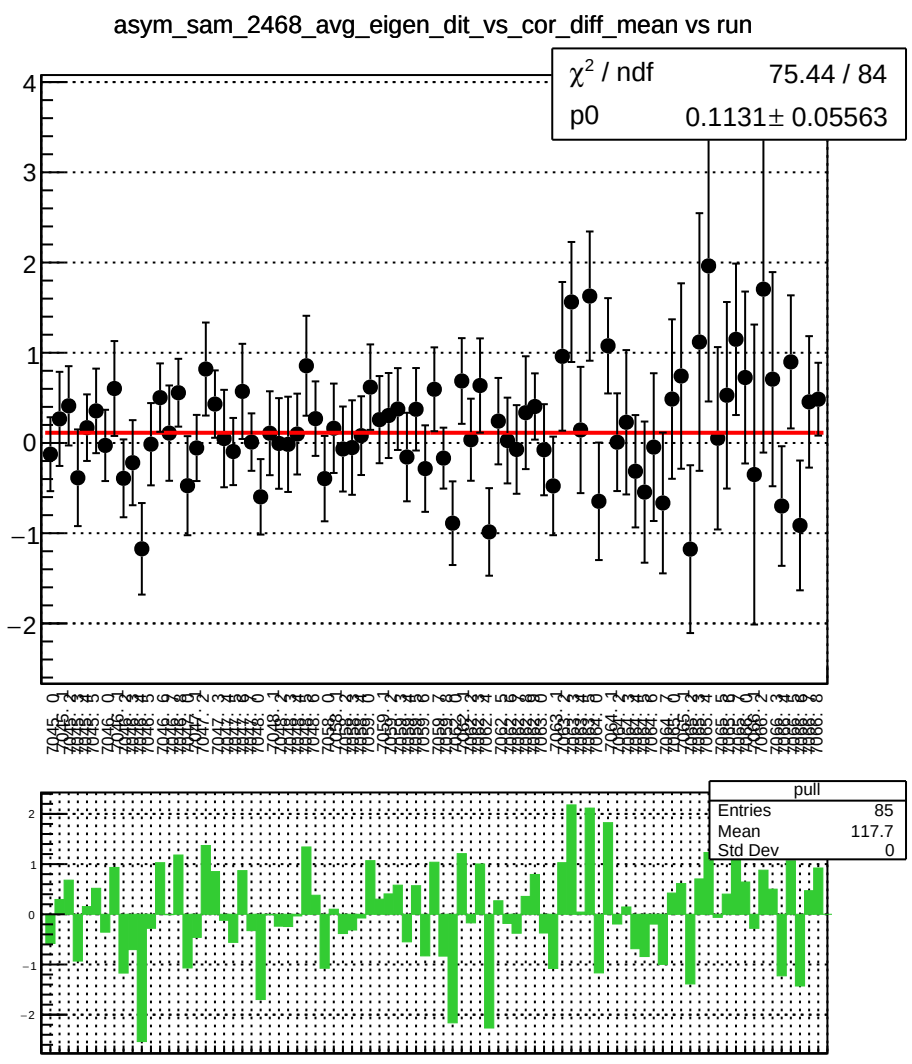

pull1D
Entries 85
Mean 0.03868
Std Dev 0.9413

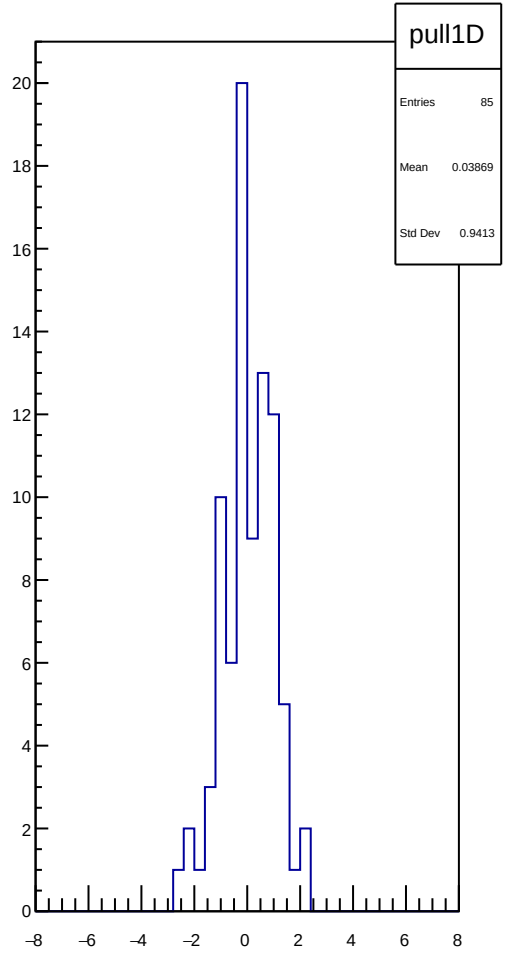

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 84
p0 48.5 ± 0.03934
180
160
140
120
100
80
60
40

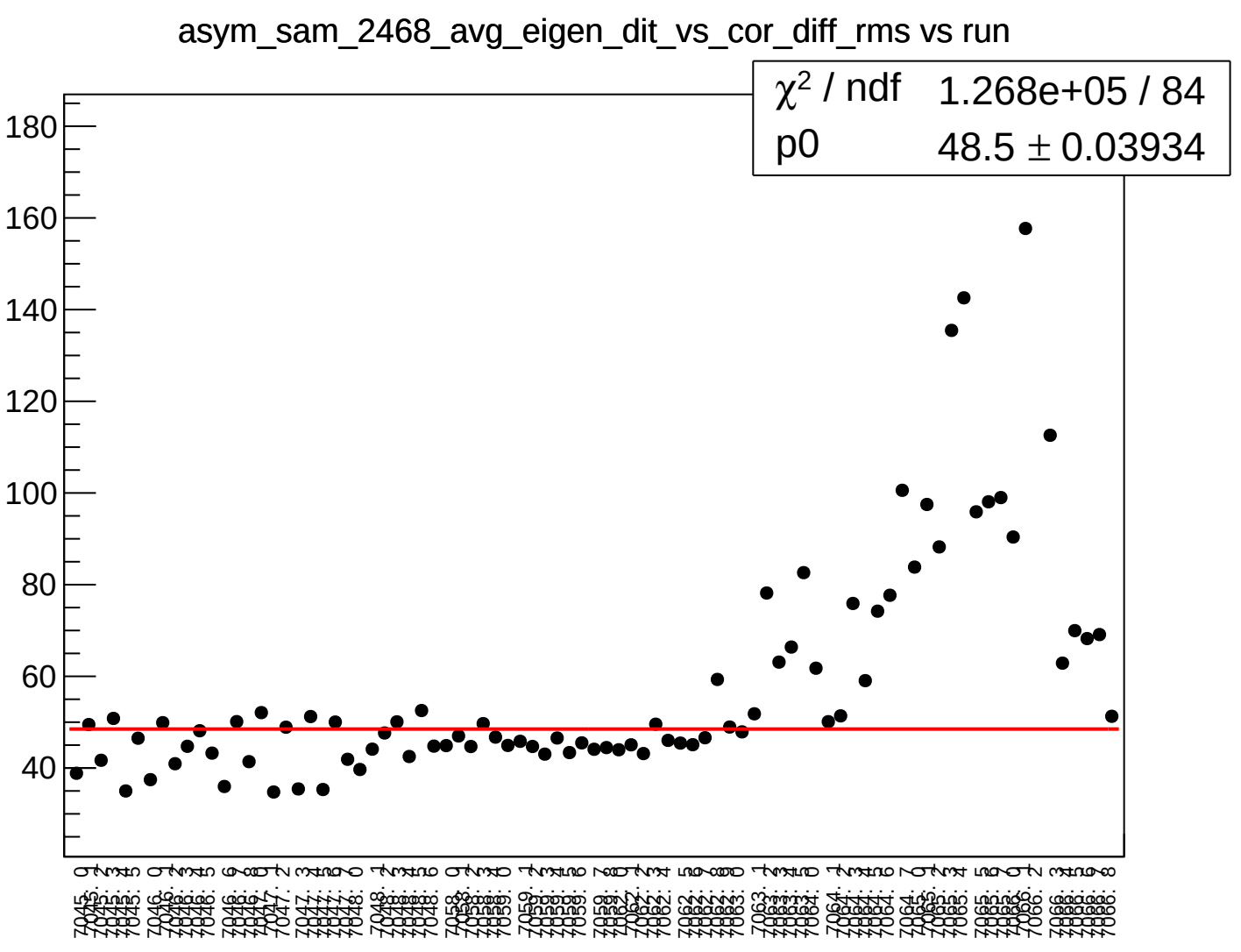

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.04 / 84
p0 2.076e−06 ± 4.401e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 475.6
Std Dev 0
2
1
0
−1
−2

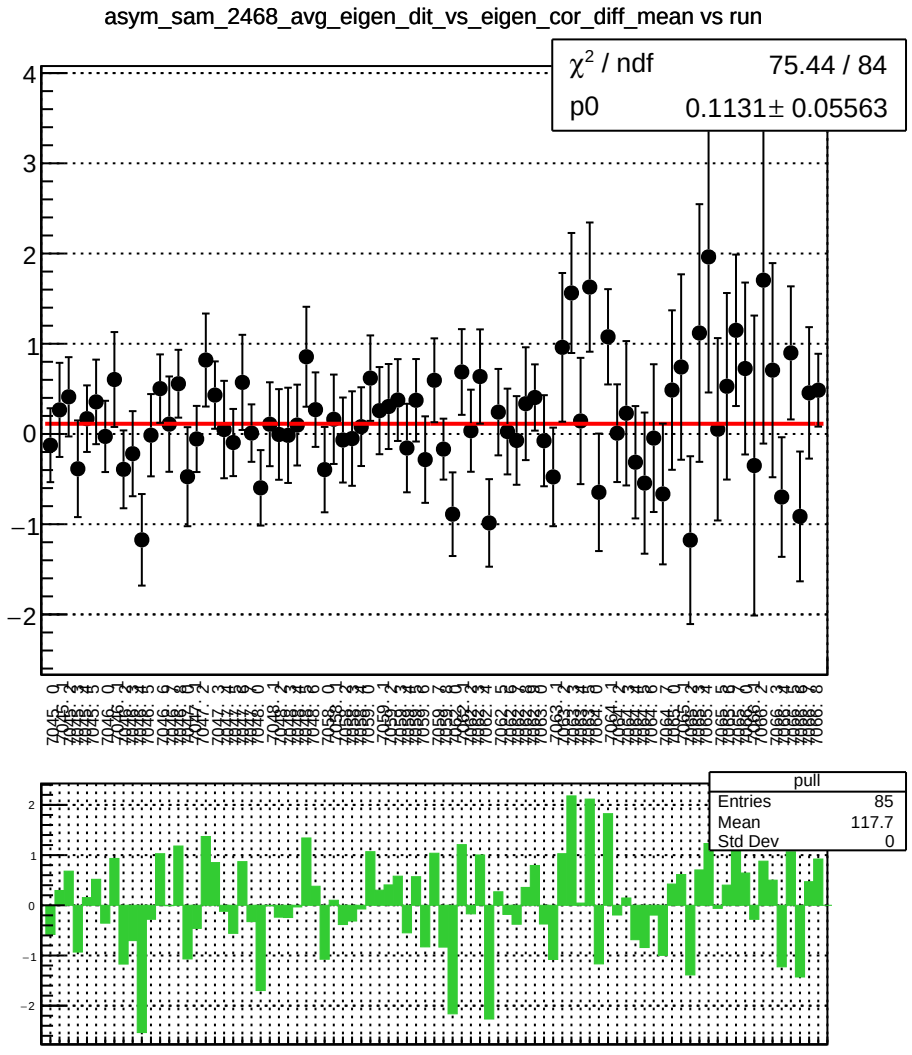

pull1D
Entries 85
Mean 0.01457
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

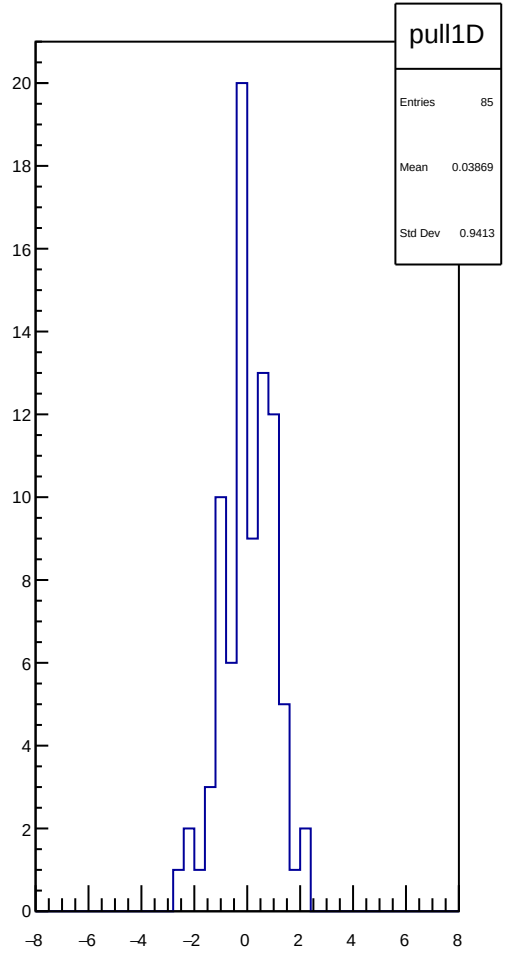

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3357 / 84
p0 0.00399 ± 3.112e−06
0.0044
0.0042
0.004
0.0038
0.0036

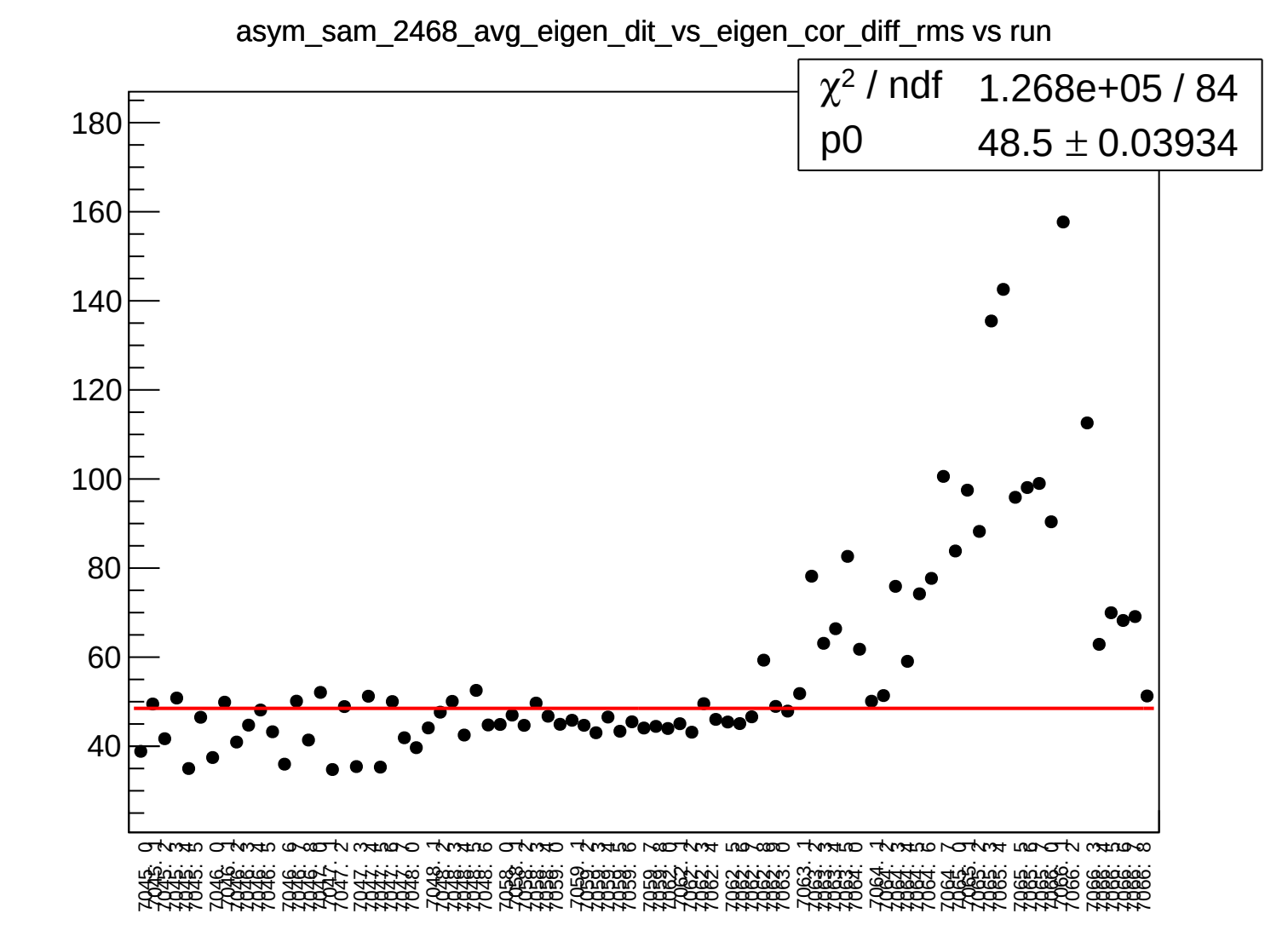

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.44 / 84
p0 0.1131± 0.05563
pull
Entries 85
Mean 117.7
Std Dev 0

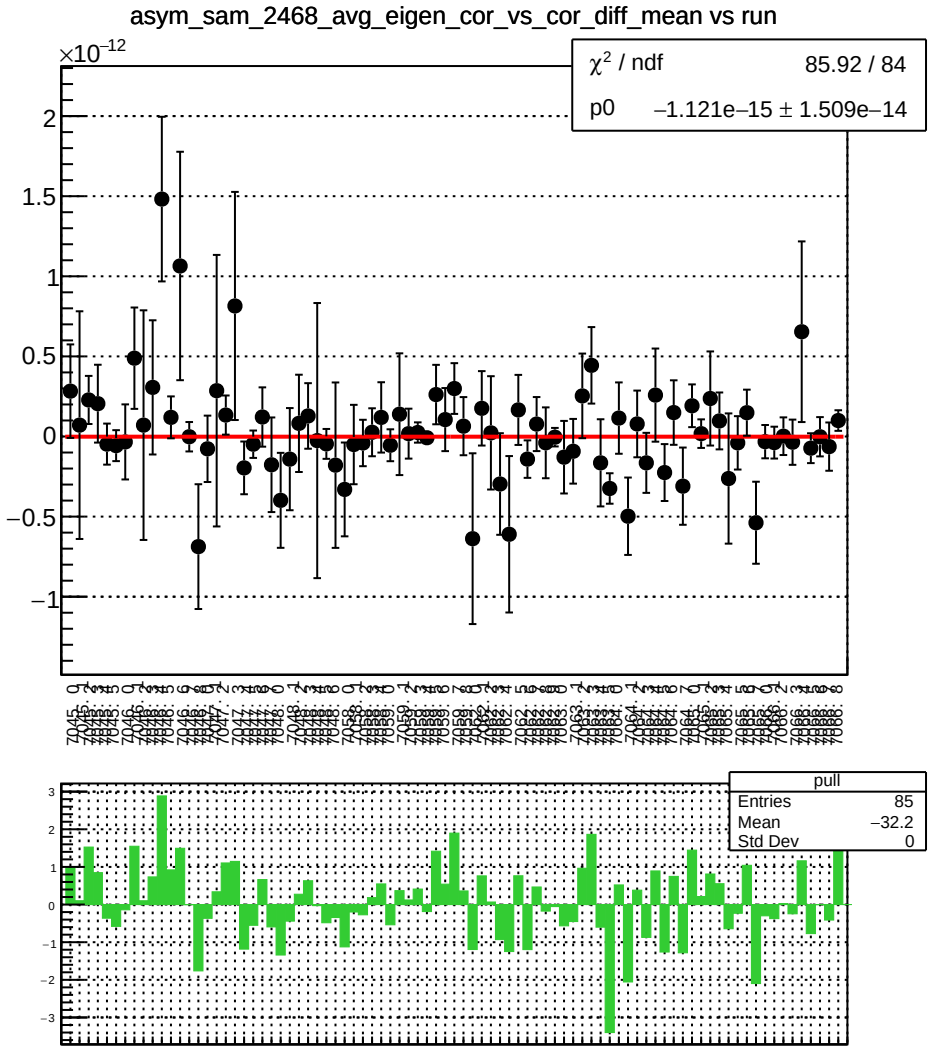

pull1D
Entries 85
Mean 0.03869
Std Dev 0.9413

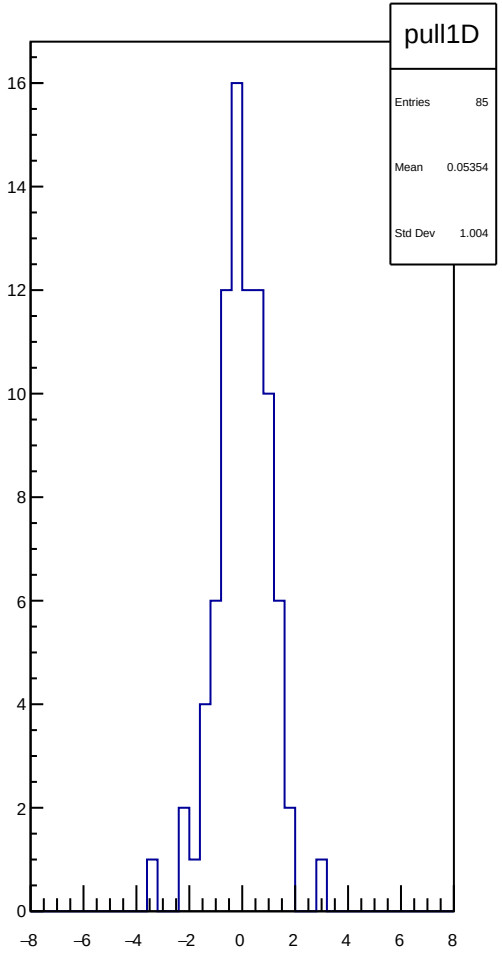

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 84
p0 48.5 ± 0.03934
180
160
140
120
100
80
60
40

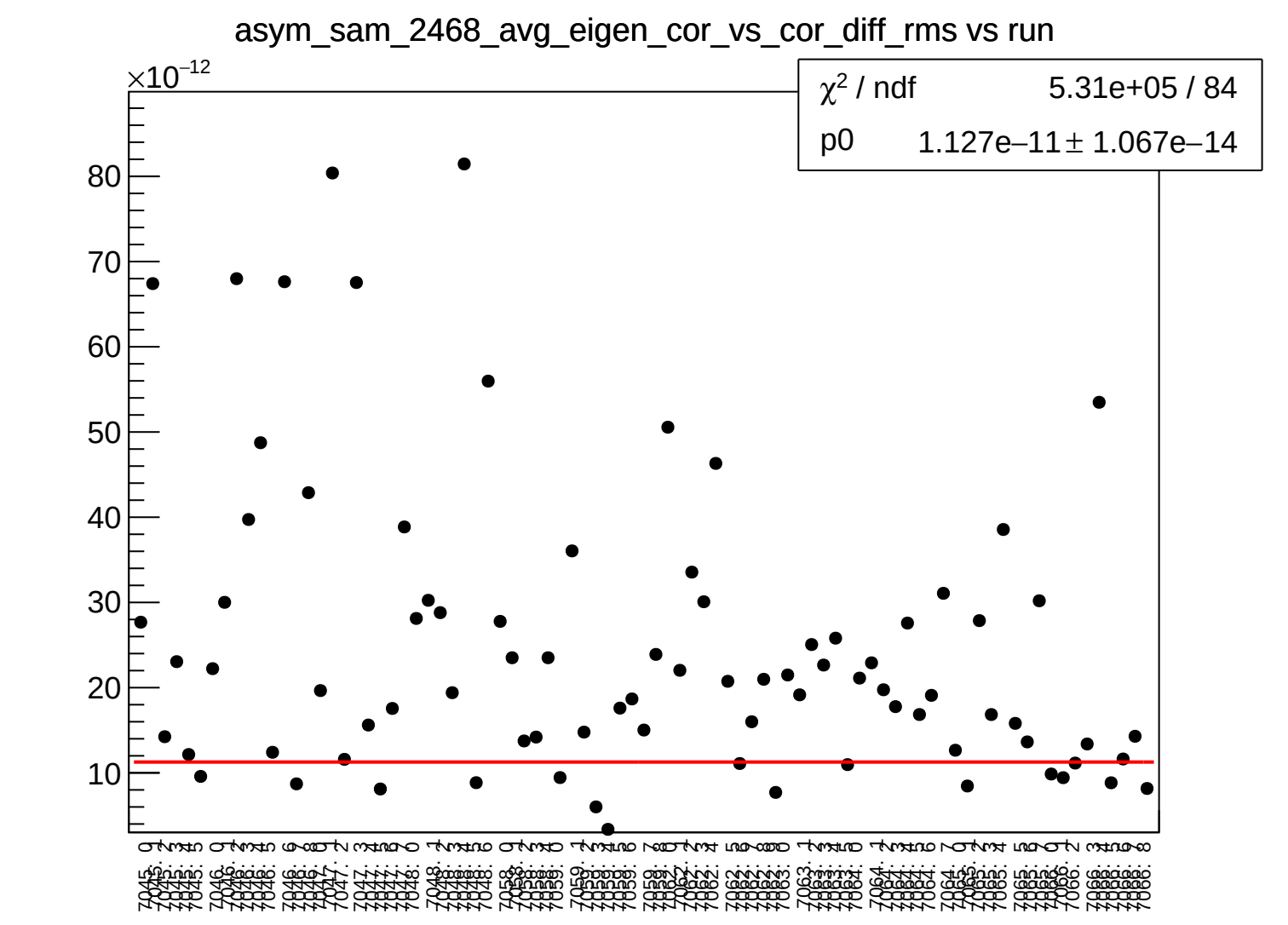

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.44 / 84
p0 0.1131± 0.05563
pull
Entries 85
Mean 117.7
Std Dev 0

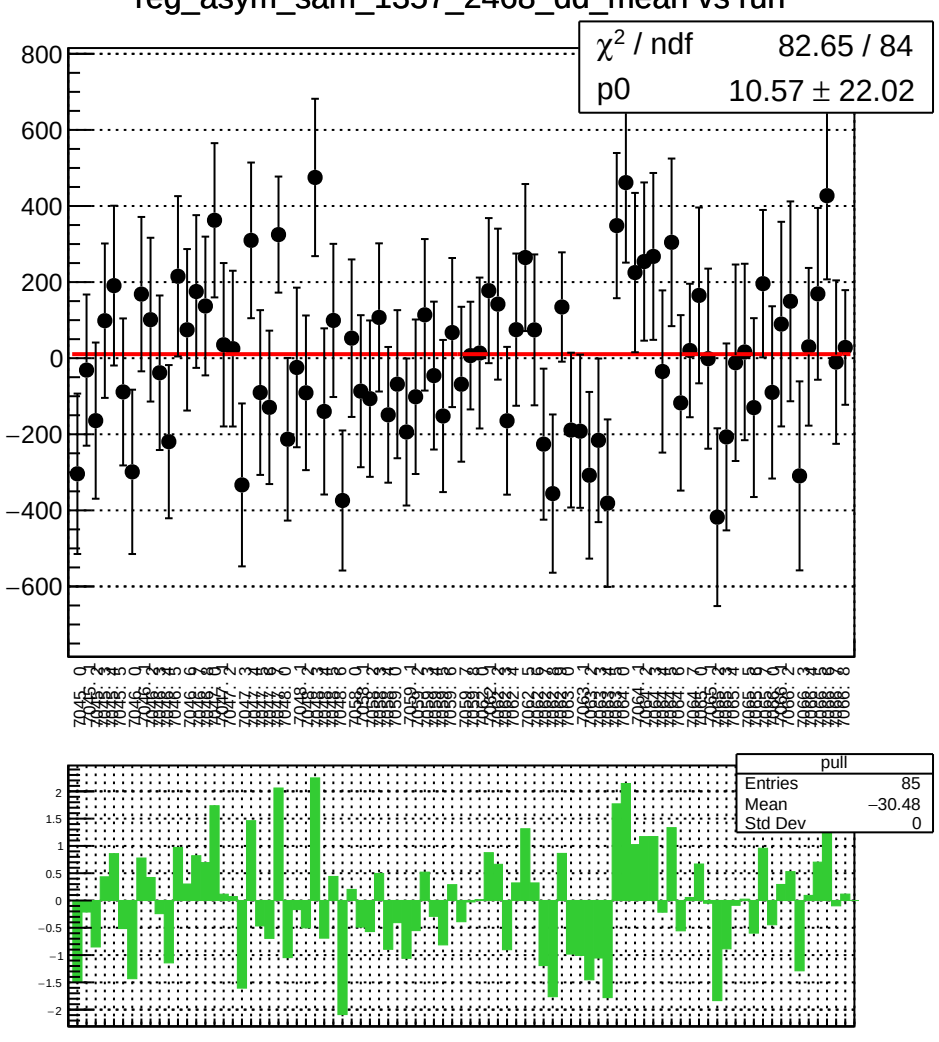

pull1D
Entries 85
Mean 0.03869
Std Dev 0.9413

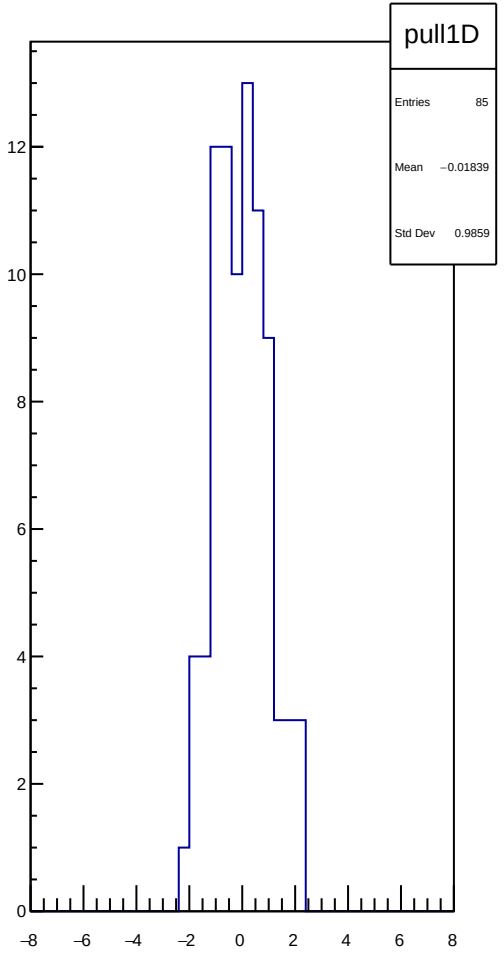

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 84
p0 48.5 ± 0.03934
180
160
140
120
100
80
60
40

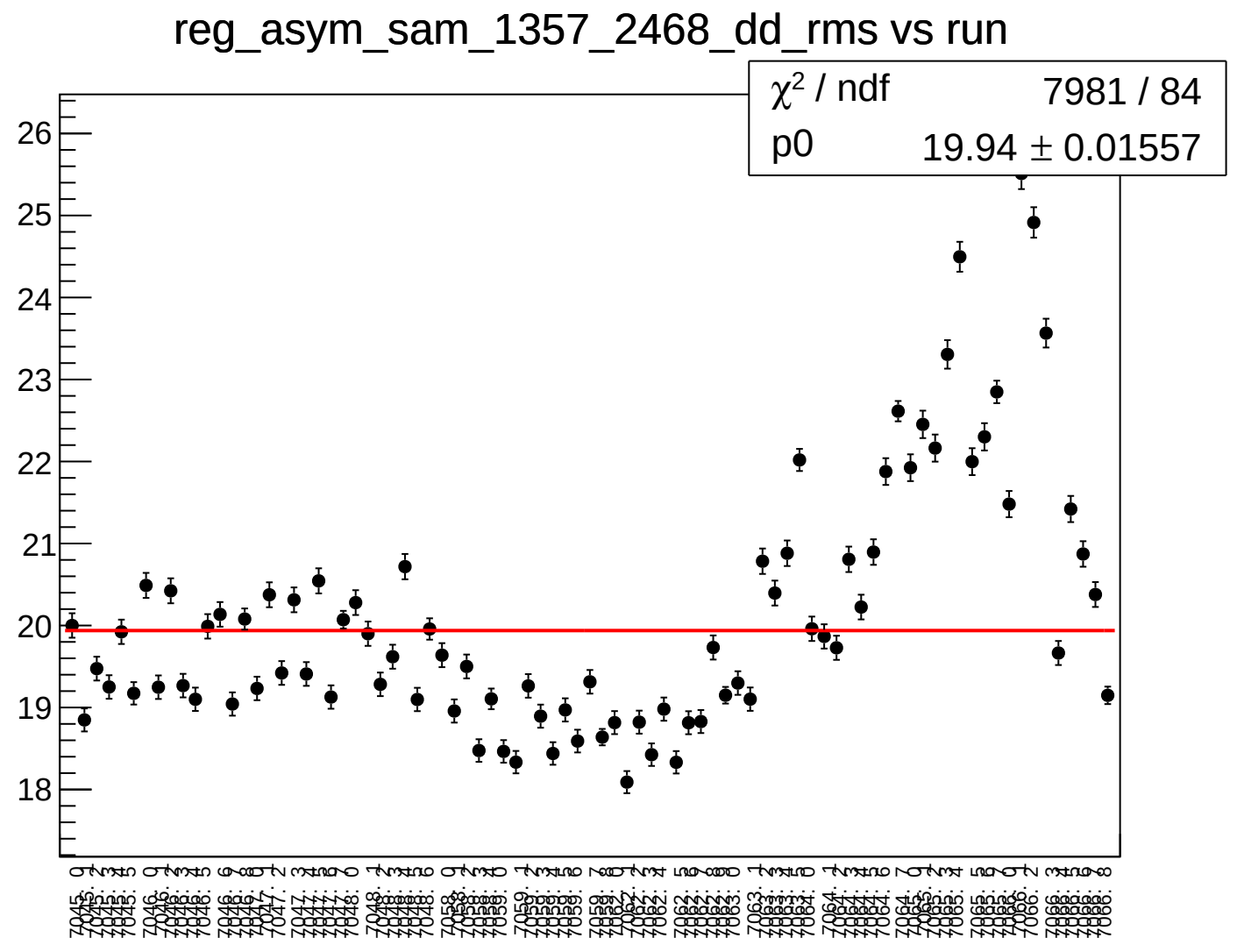

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.92 / 84
p0 −1.121e−15 ± 1.509e−14
pull
Entries 85
Mean −32.2
Std Dev 0

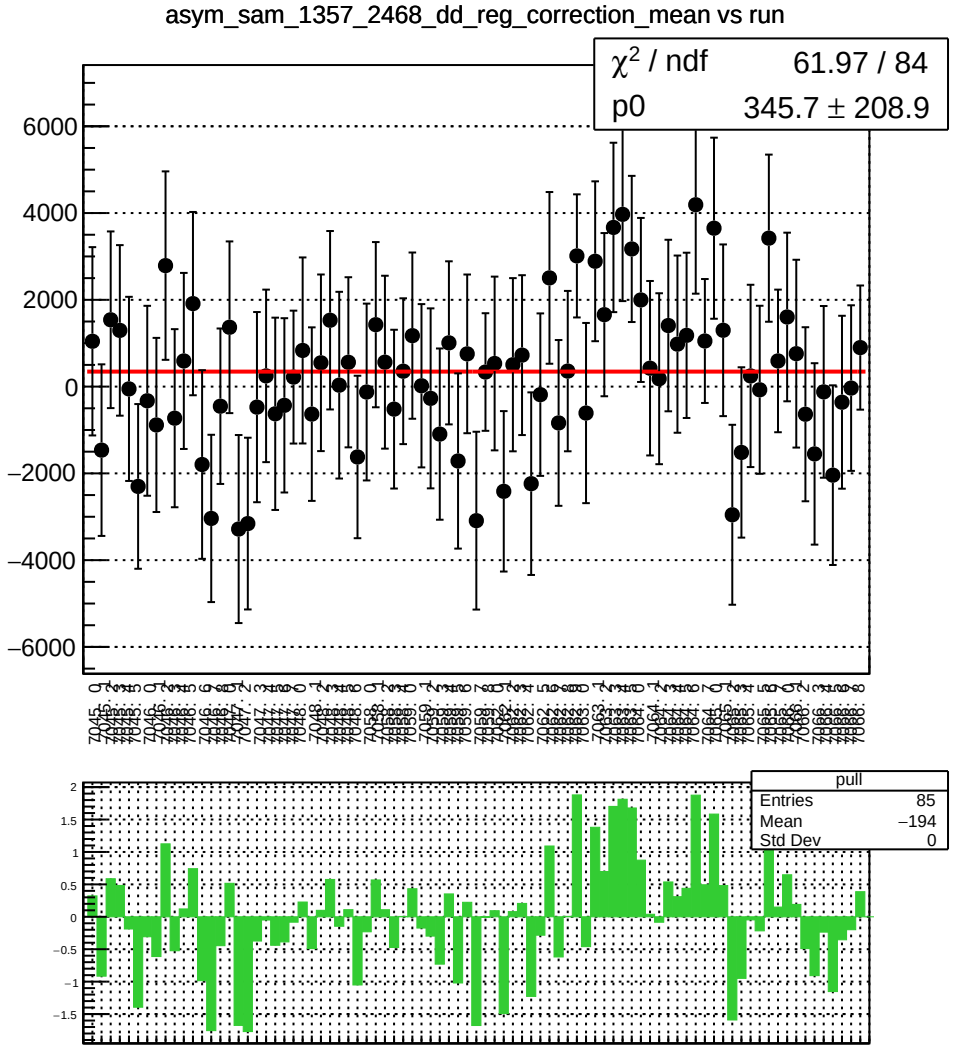

pull1D
Entries 85
Mean 0.05354
Std Dev 1.004

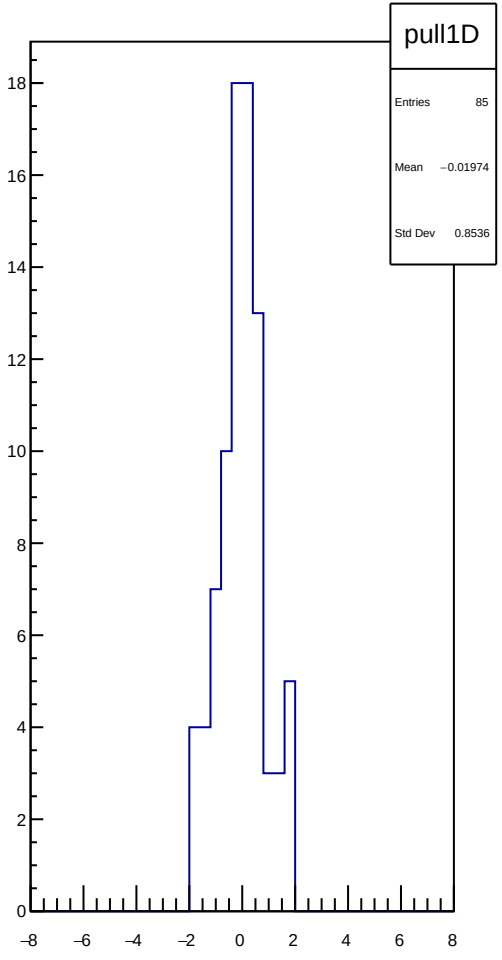

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.31e+05 / 84
p0 1.127e−11 ± 1.067e−14
80
70
60
50
40
30
20
10

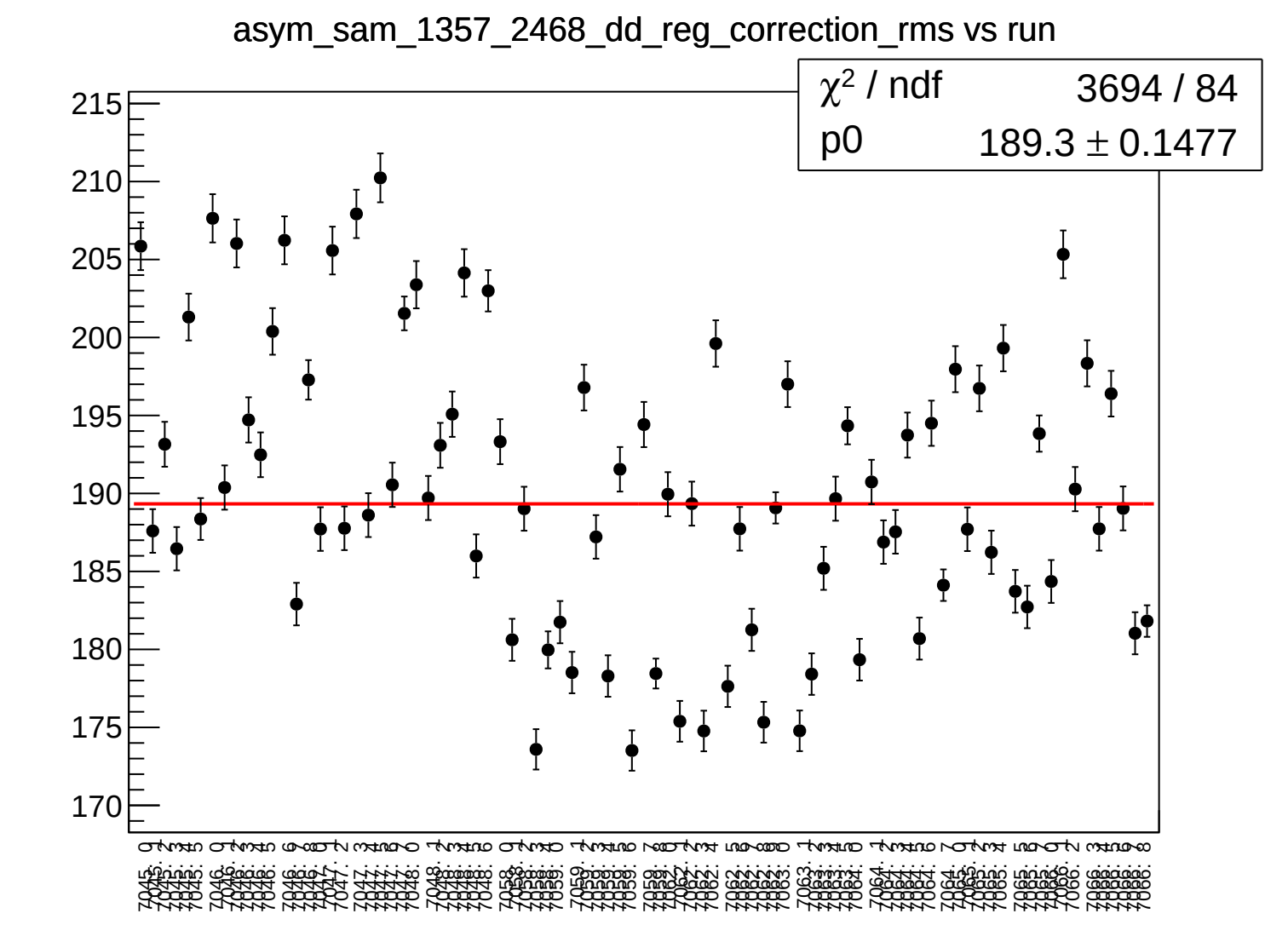

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.65 / 84
p0 10.57 ± 22.02
pull
Entries 85
Mean −30.48
Std Dev 0

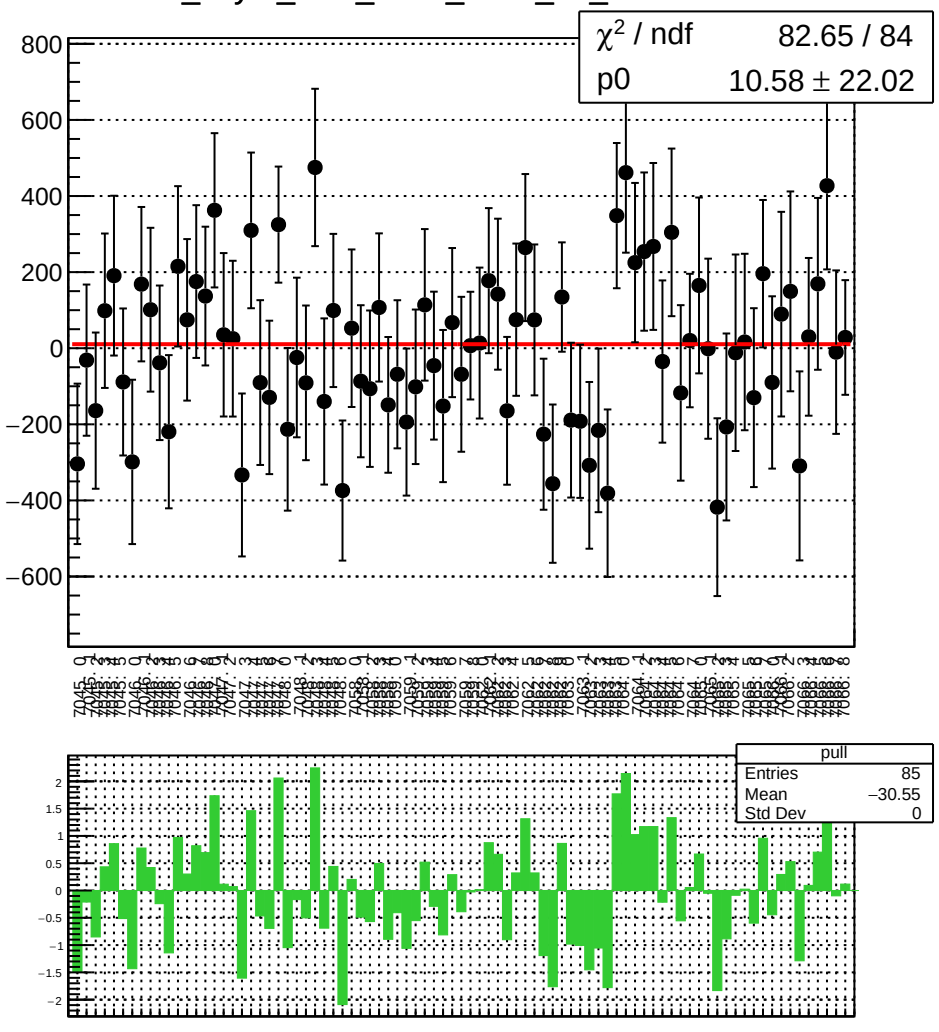

pull1D
Entries 85
Mean −0.01839
Std Dev 0.9859

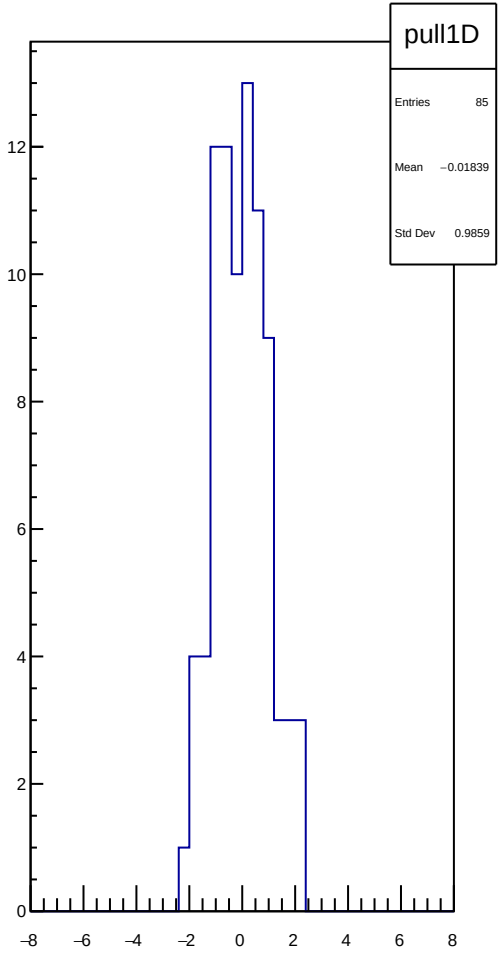

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7981 / 84
p0 19.94 ± 0.01557
26
25
24
23
22
21
20
19
18

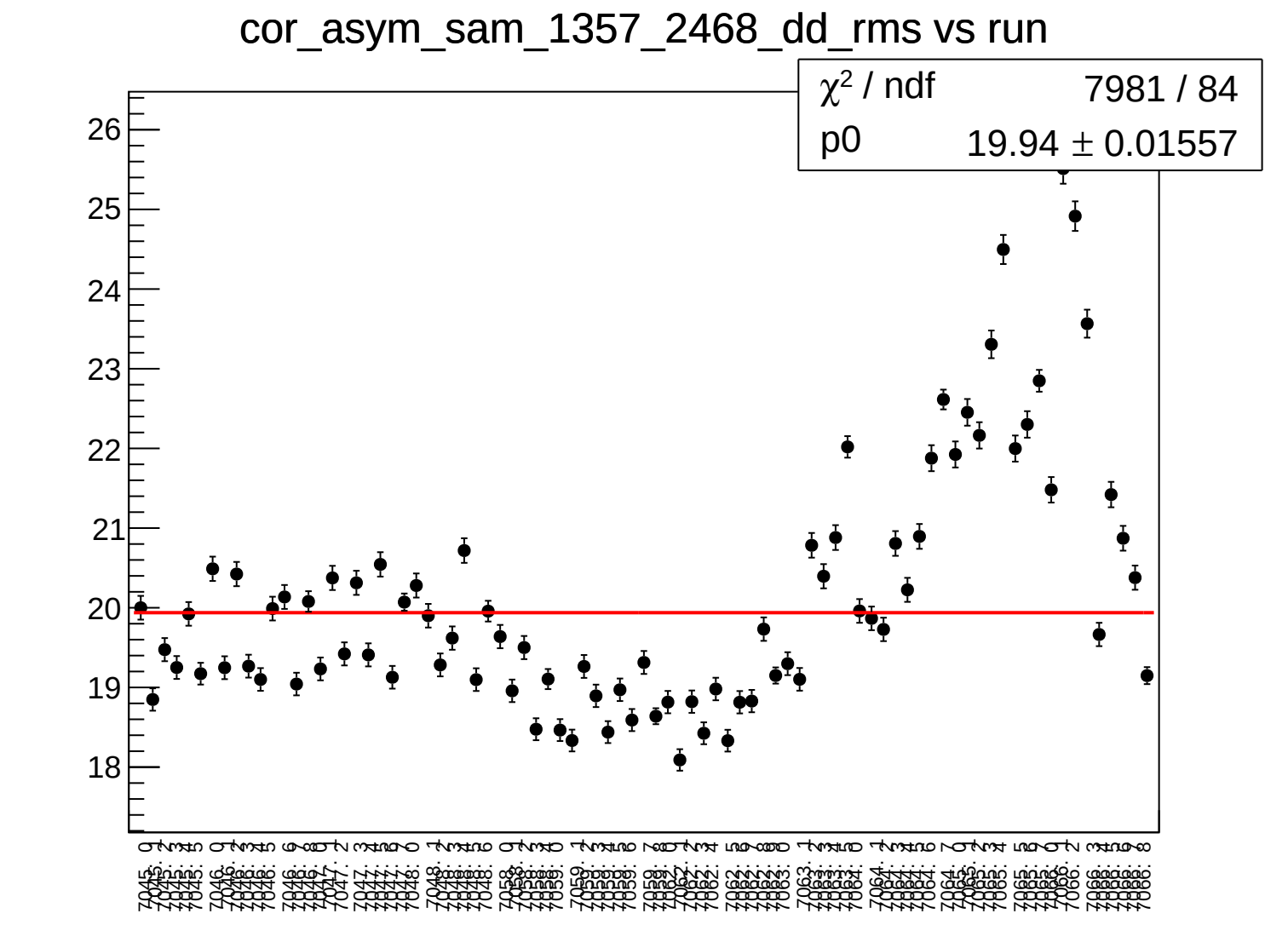

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 61.97 / 84
p0 345.7 ± 208.9
pull
Entries 85
Mean −194
Std Dev 0

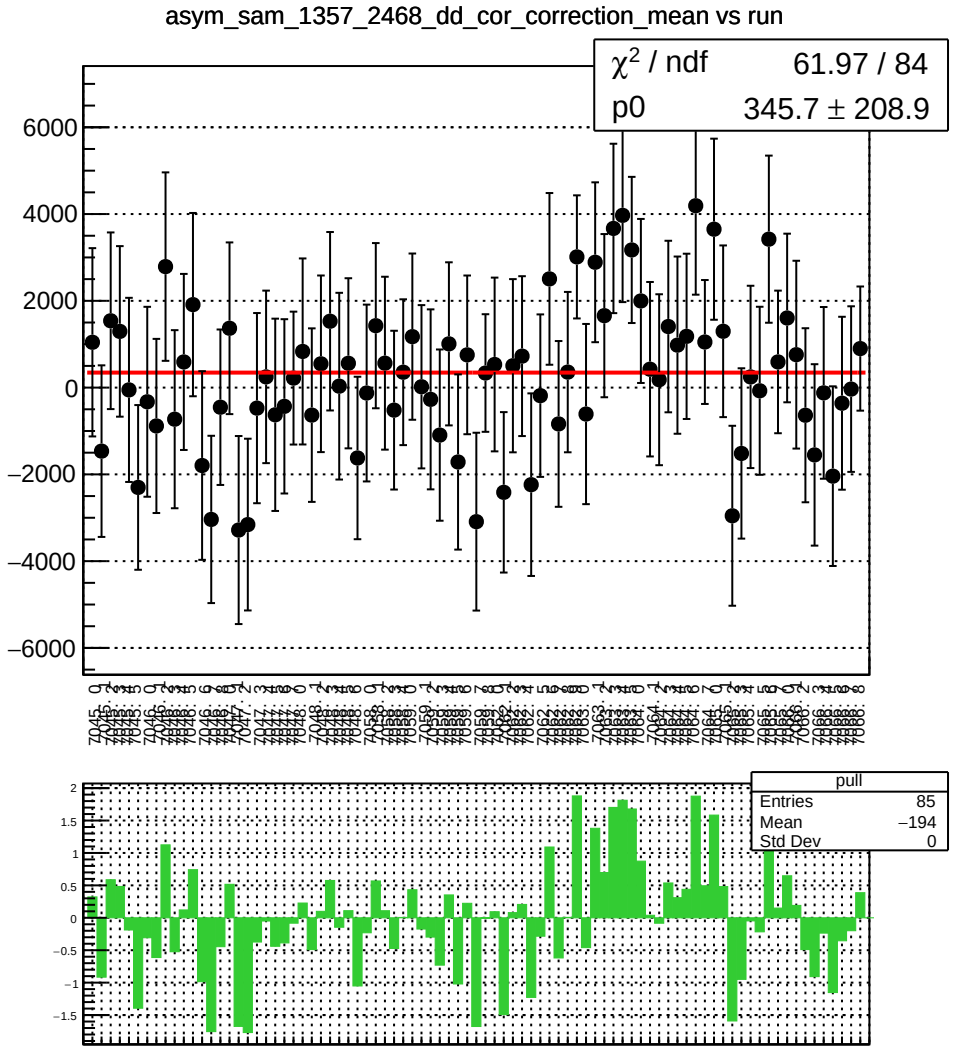

pull1D
Entries 85
Mean −0.01974
Std Dev 0.8536

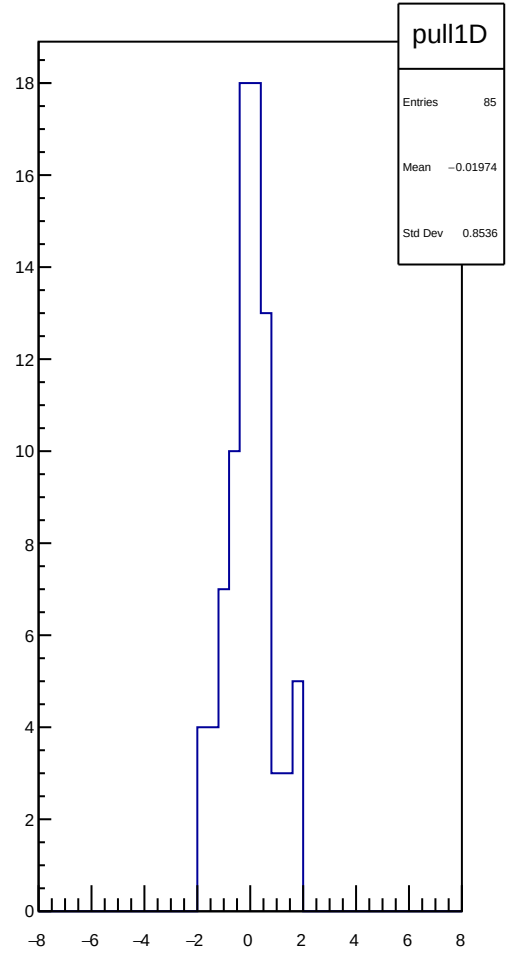

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3694 / 84
p0 189.3 ± 0.1477
215
210
205
200
195
190
185
180
175
170

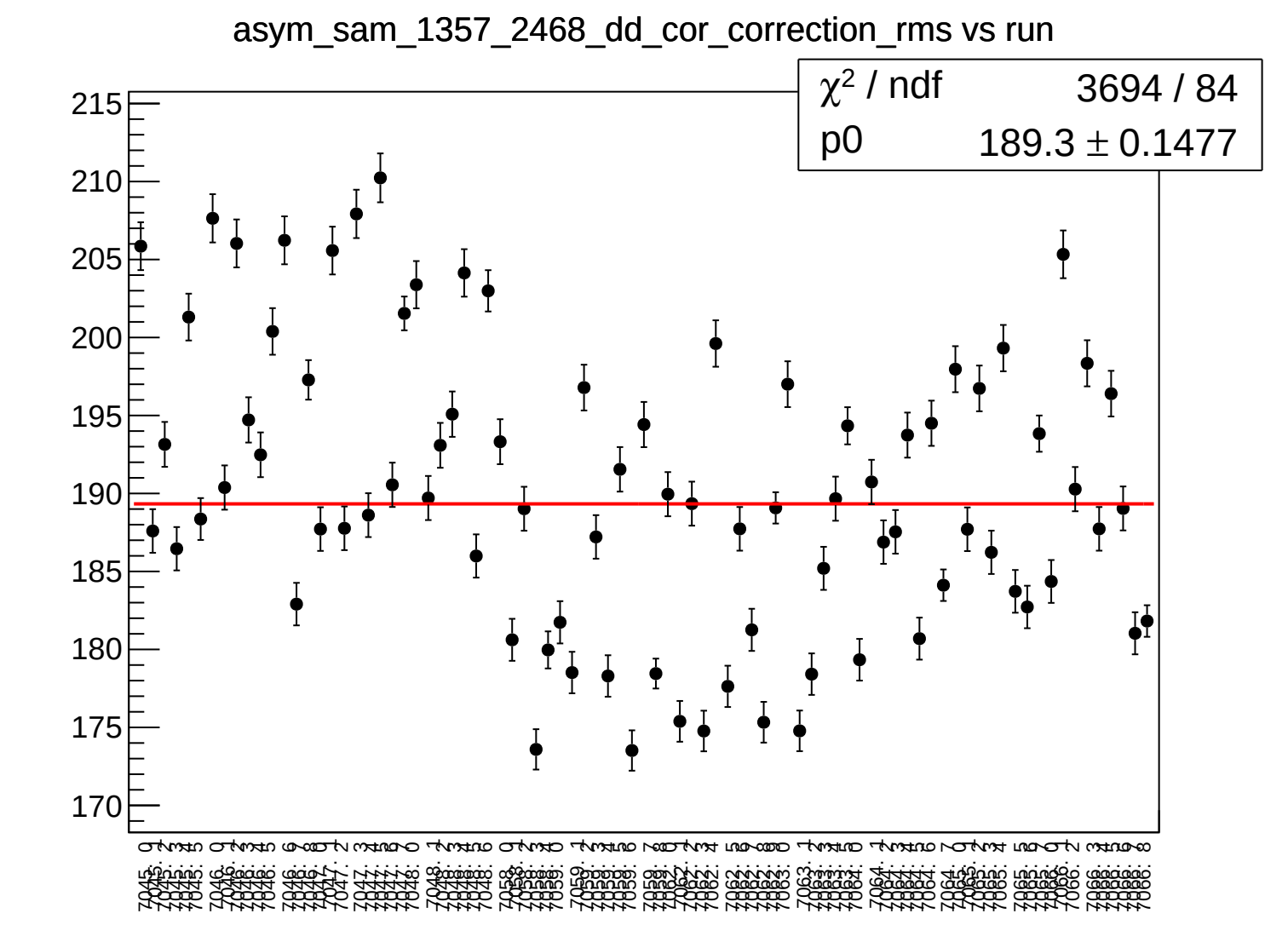

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.65 / 84
p0 10.58 ± 22.02
pull
Entries 85
Mean −30.55
Std Dev 0

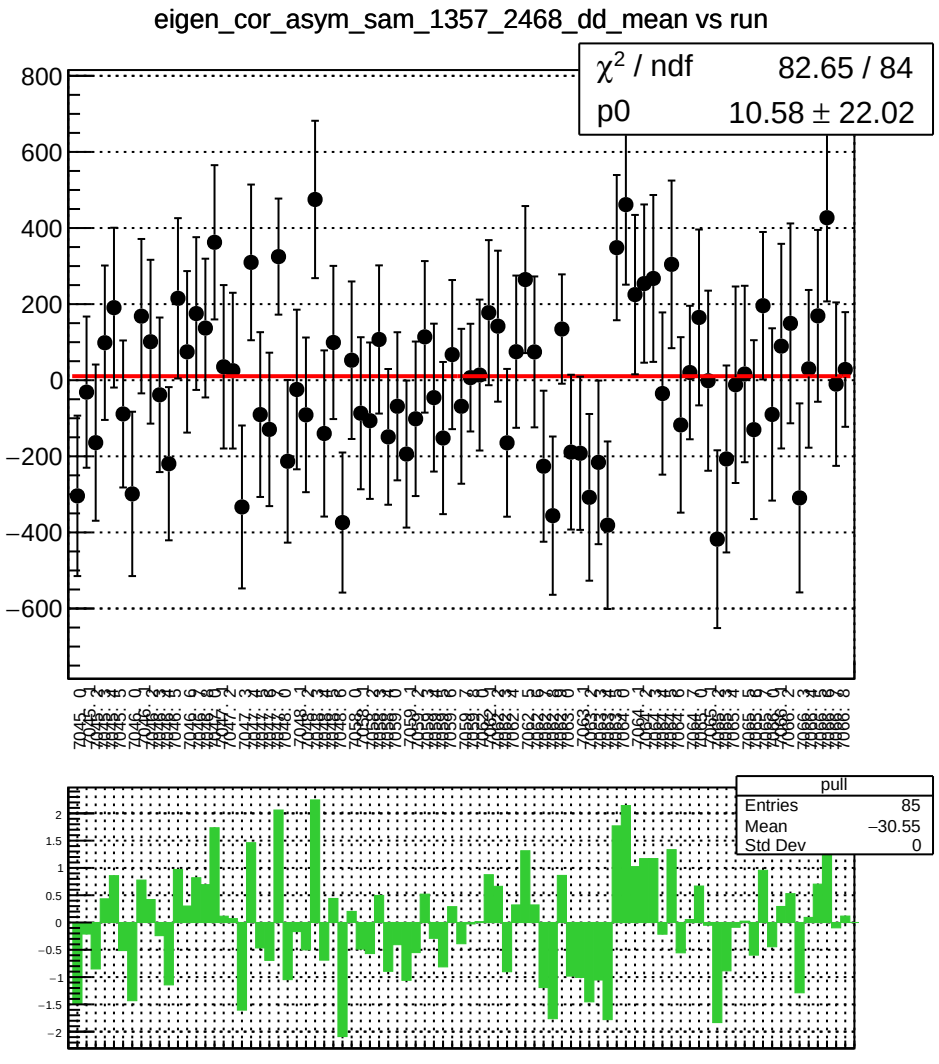

pull1D
Entries 85
Mean −0.01839
Std Dev 0.9859

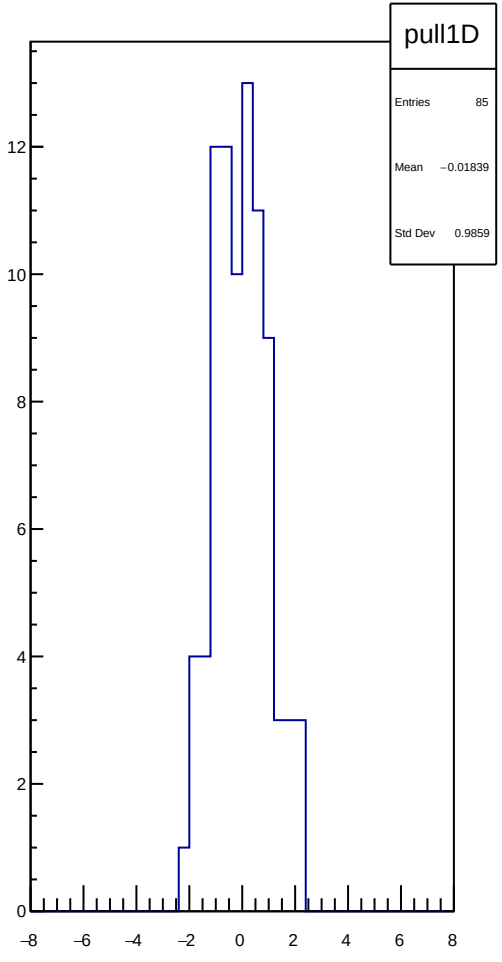

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7981 / 84
p0 19.94 ± 0.01557
26
25
24
23
22
21
20
19
18

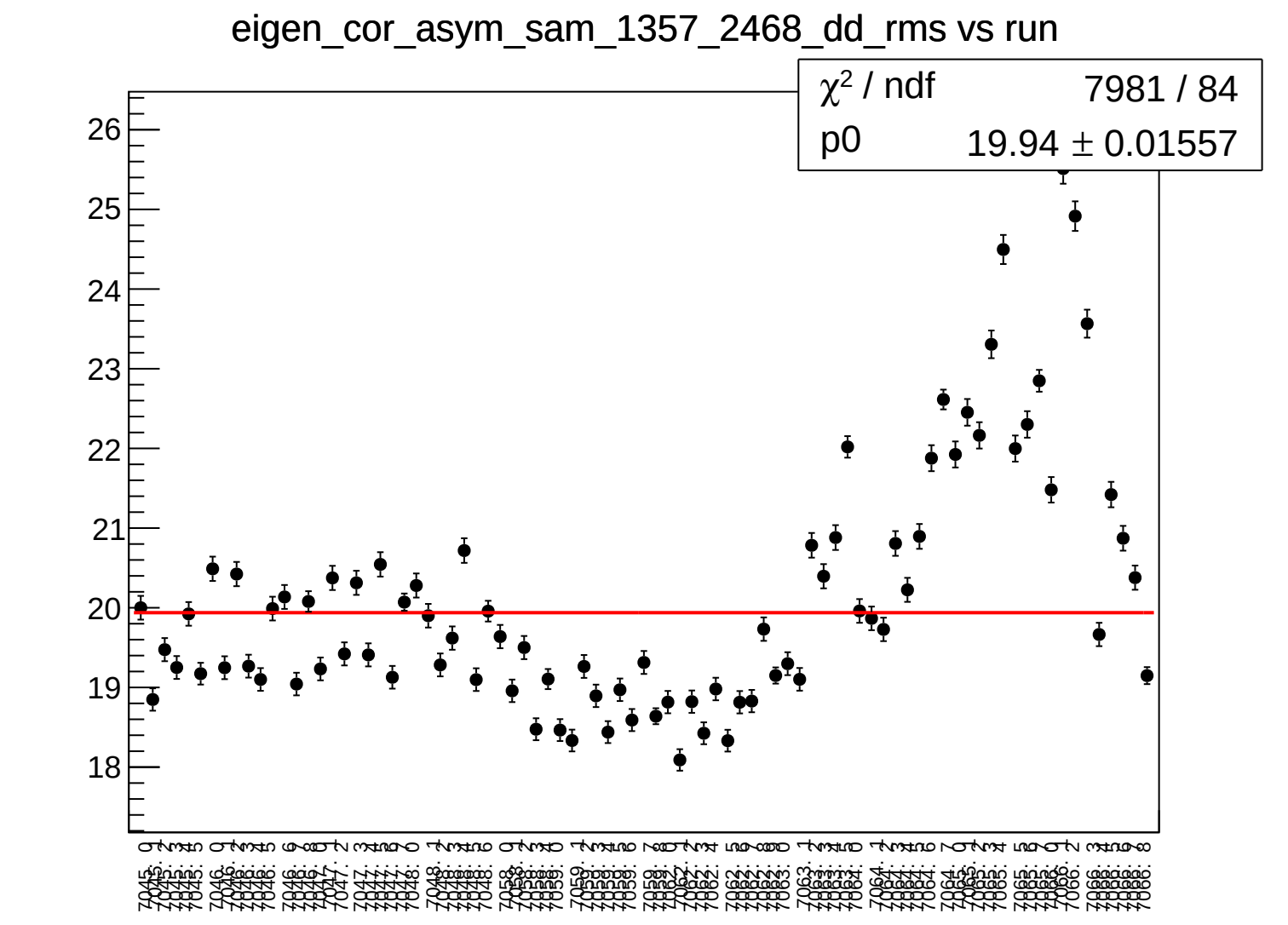

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 61.97 / 84
p0 345.7 ± 208.9
pull
Entries 85
Mean −194
Std Dev 0

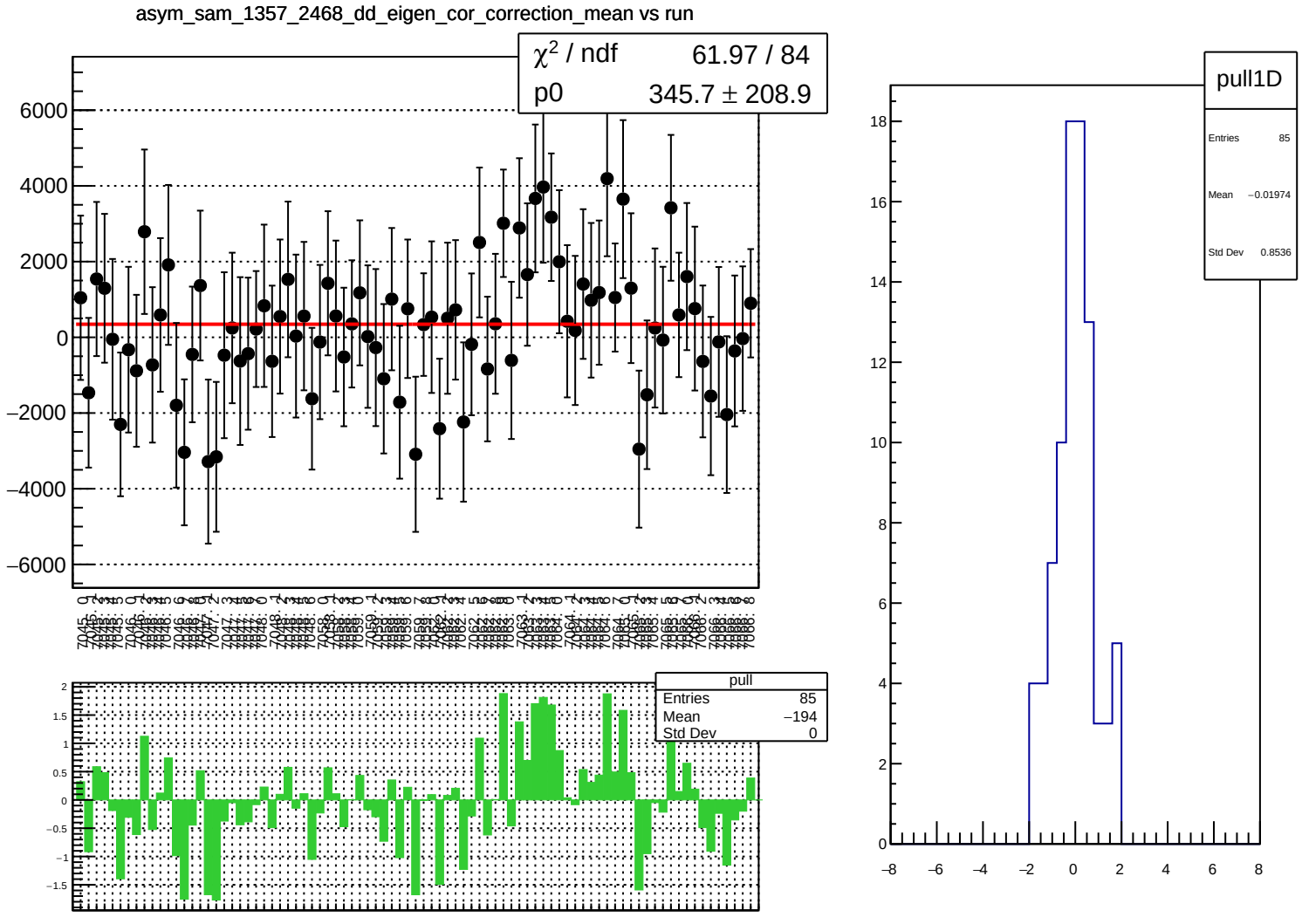

pull1D
Entries 85
Mean −0.01974
Std Dev 0.8536

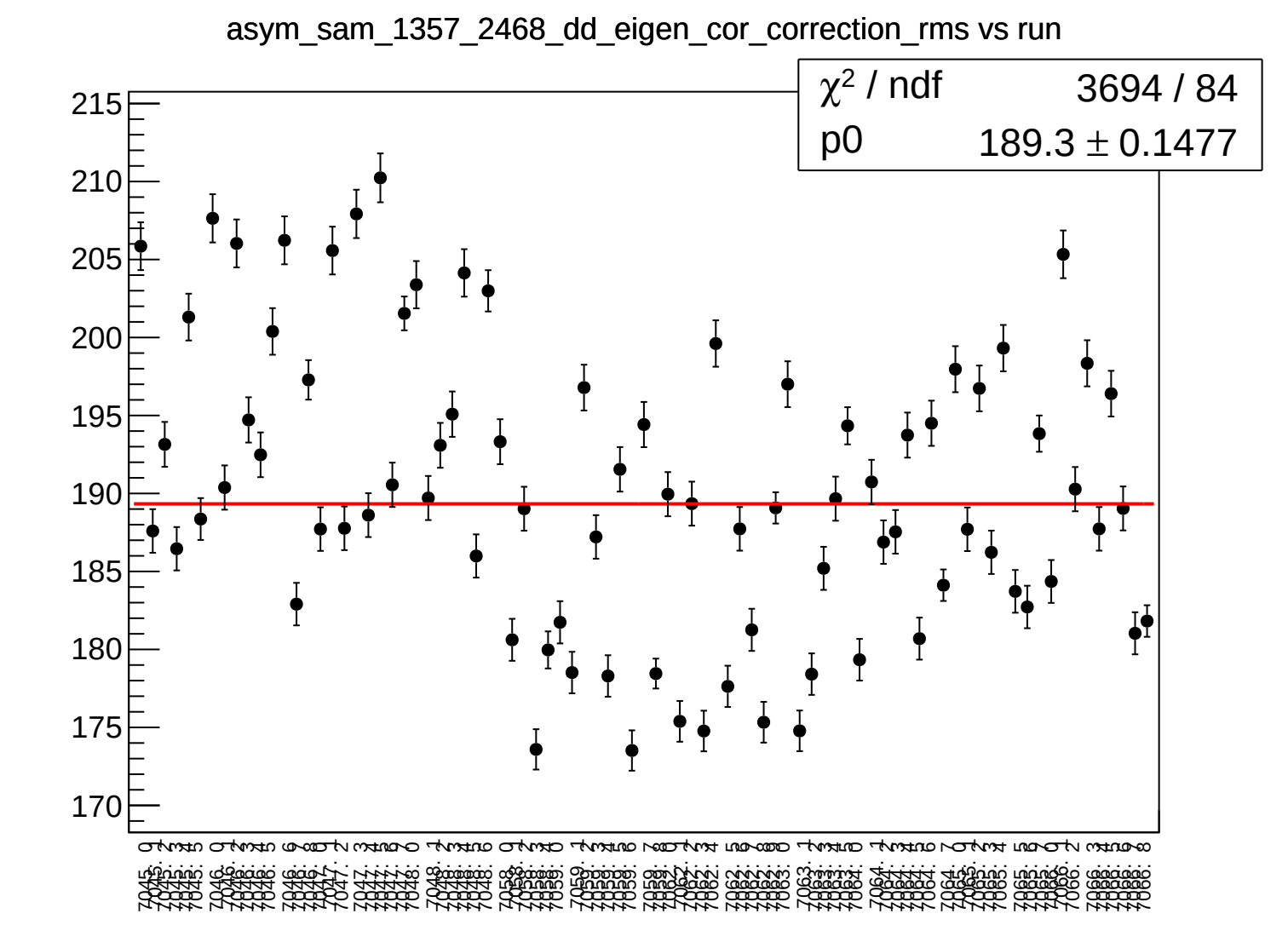

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3694 / 84
p0 189.3 ± 0.1477
215
210
205
200
195
190
185
180
175
170

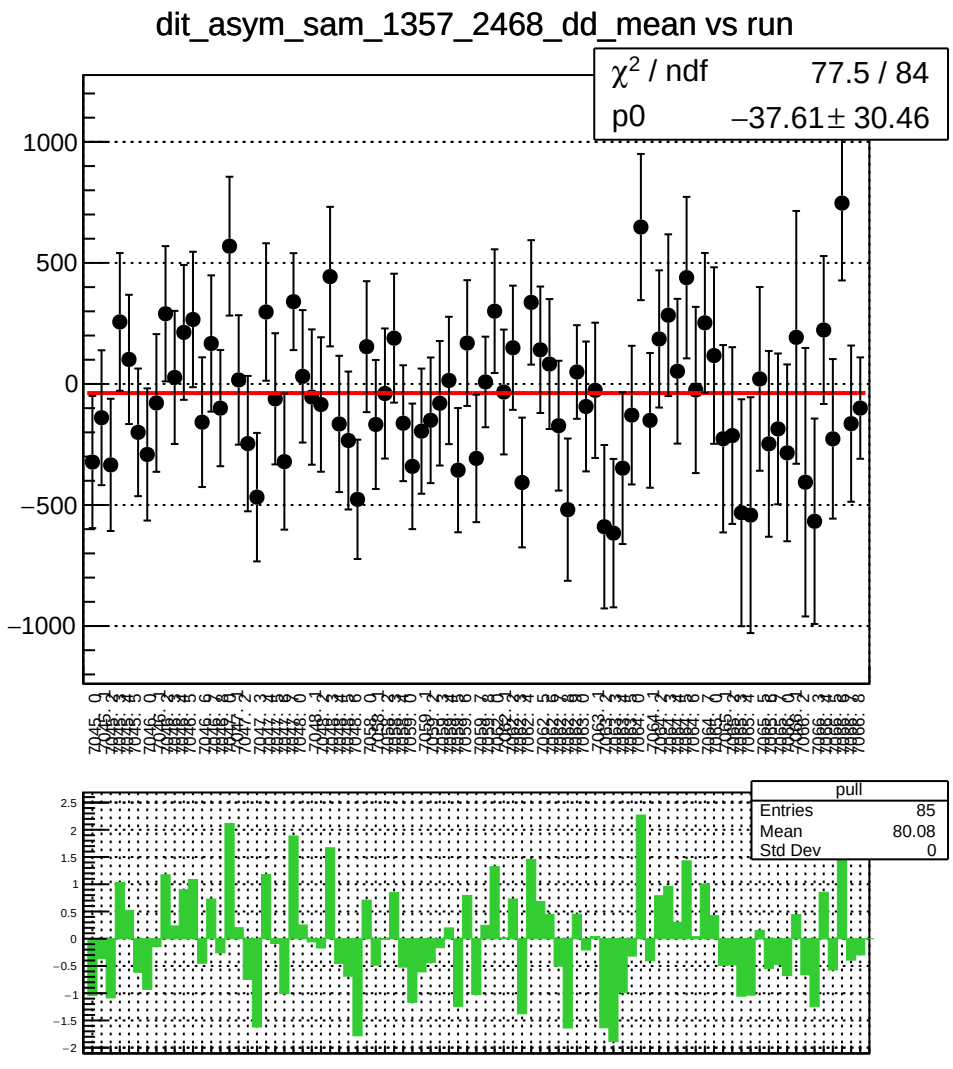

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.65 / 84
p0 10.58 ± 22.02
pull
Entries 85
Mean −30.55
Std Dev 0

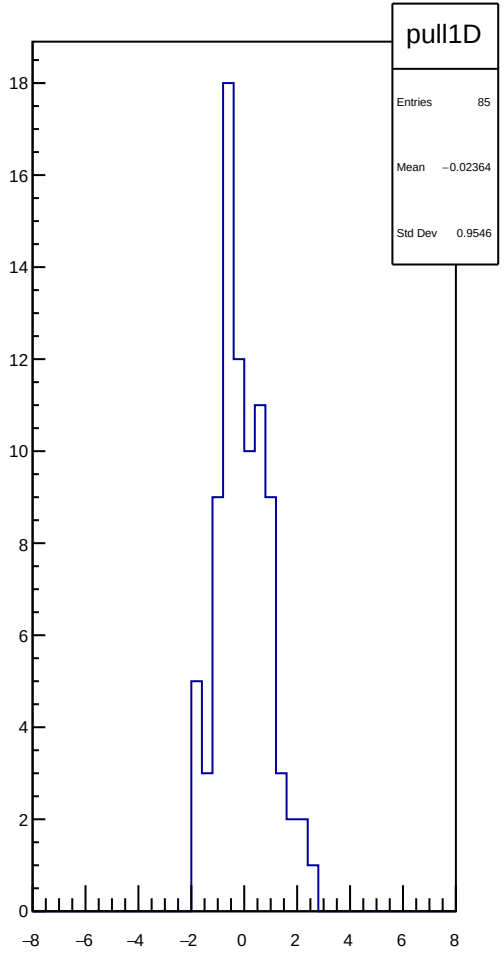

pull1D
Entries 85
Mean −0.01839
Std Dev 0.9859

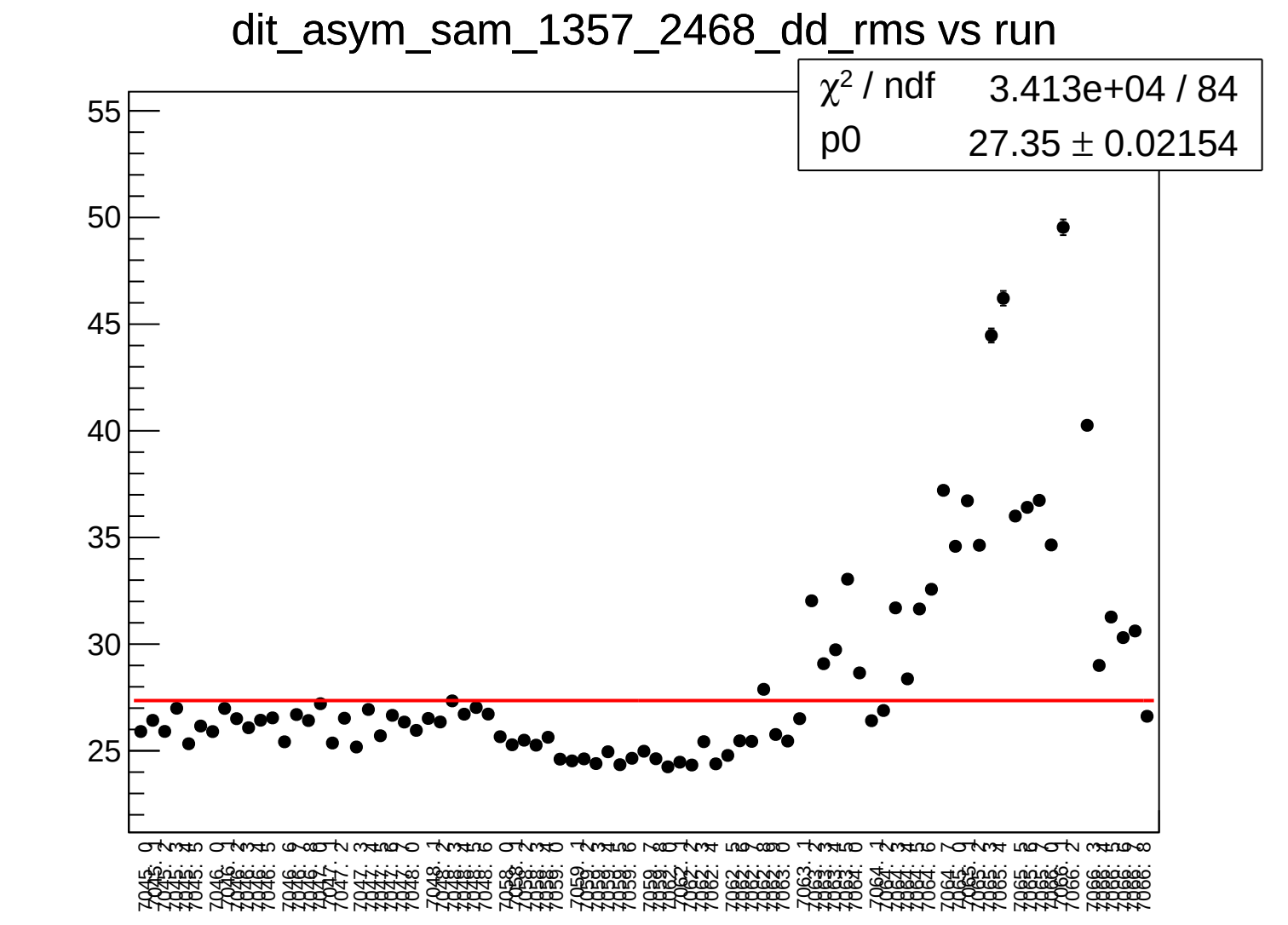

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7981 / 84
p0 19.94 ± 0.01557
26
25
24
23
22
21
20
19
18

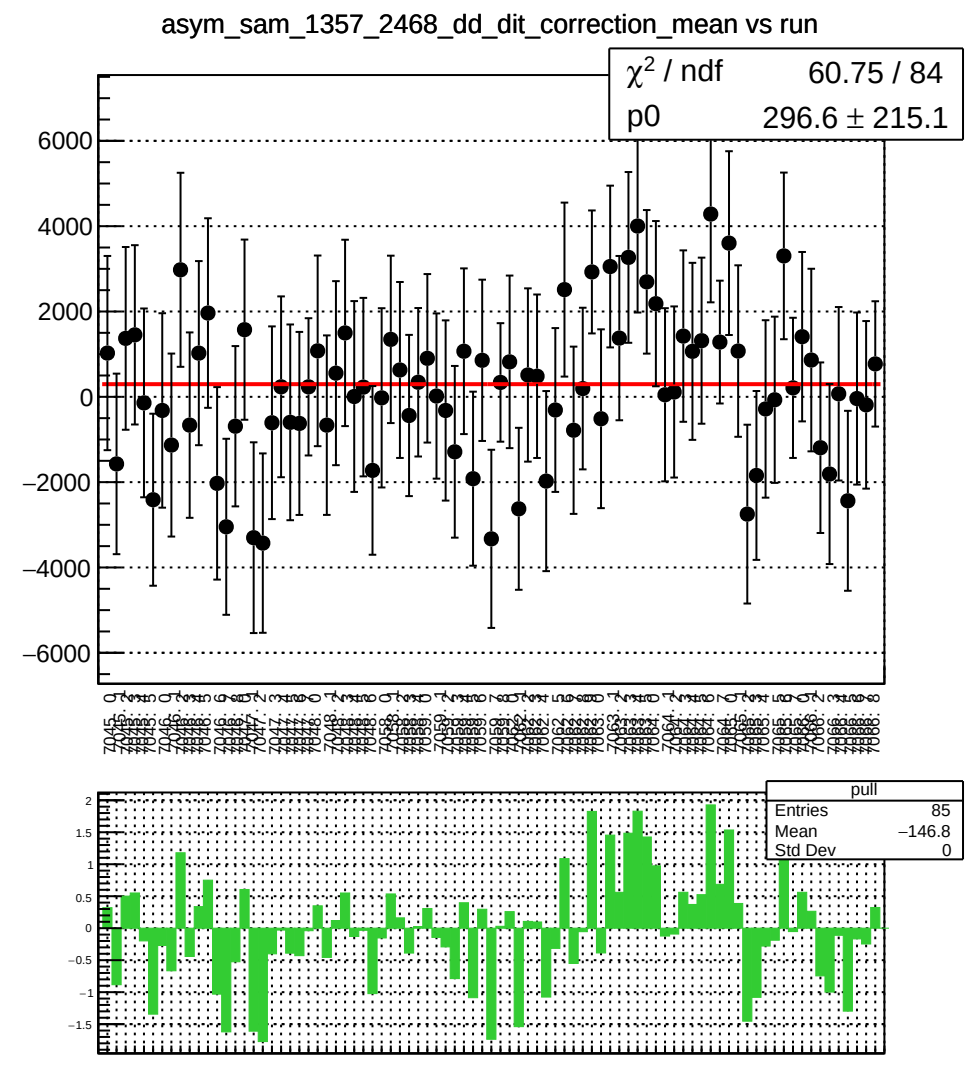

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.97 / 84
p0 345.7 ± 208.9
pull
Entries 85
Mean −194
Std Dev 0
pull1D
Entries 85
Mean −0.01974
Std Dev 0.8536

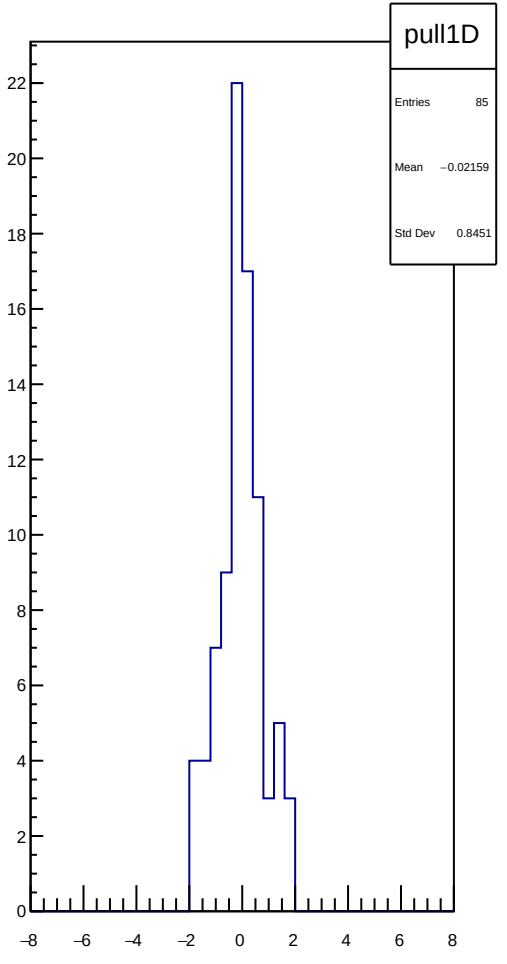

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3694 / 84
p0 189.3 ± 0.1477
215
210
205
200
195
190
185
180
175
170

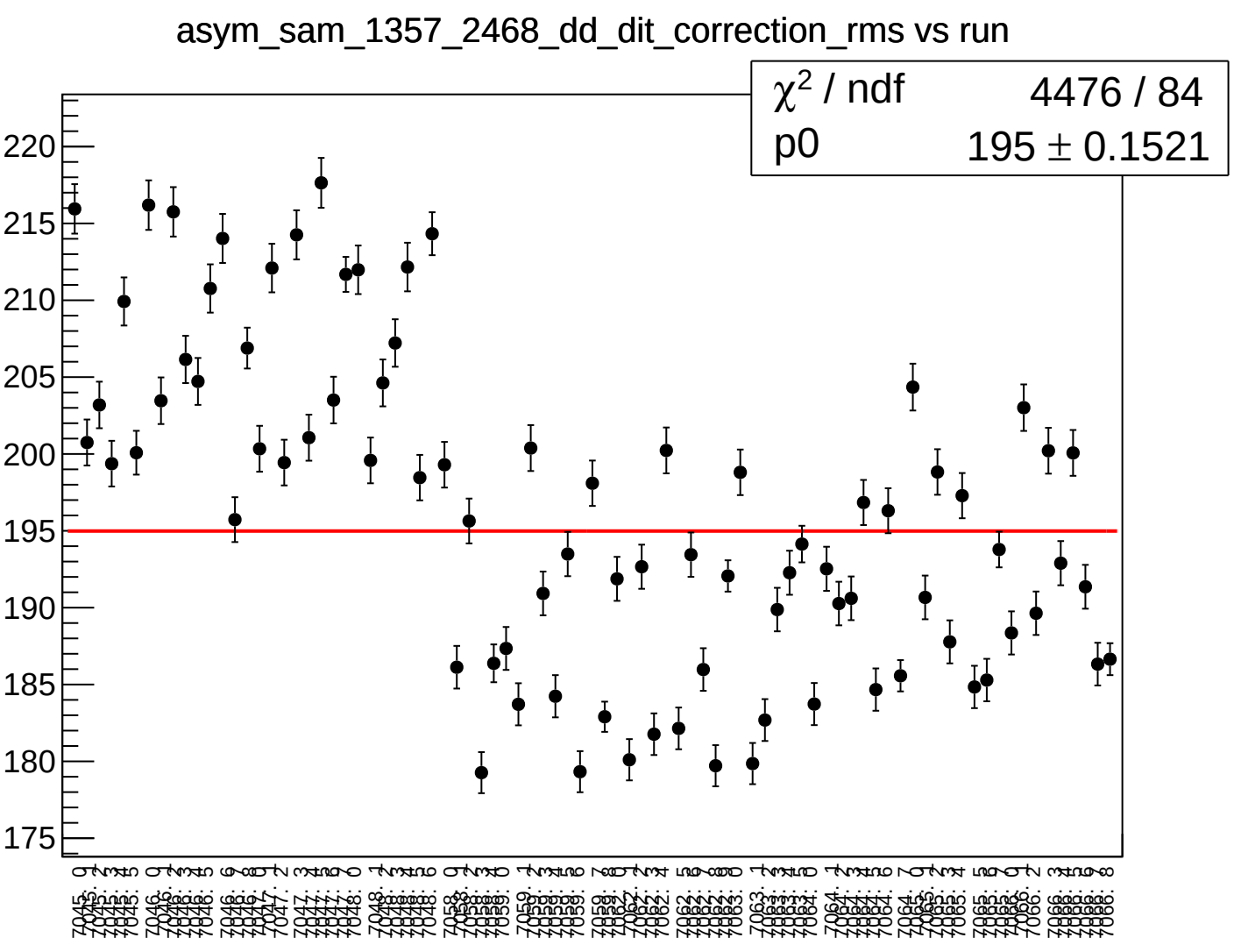

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.5 / 84
p0 −37.61 ± 30.46
1000
500
0
−500
−1000
pull
Entries 85
Mean 80.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

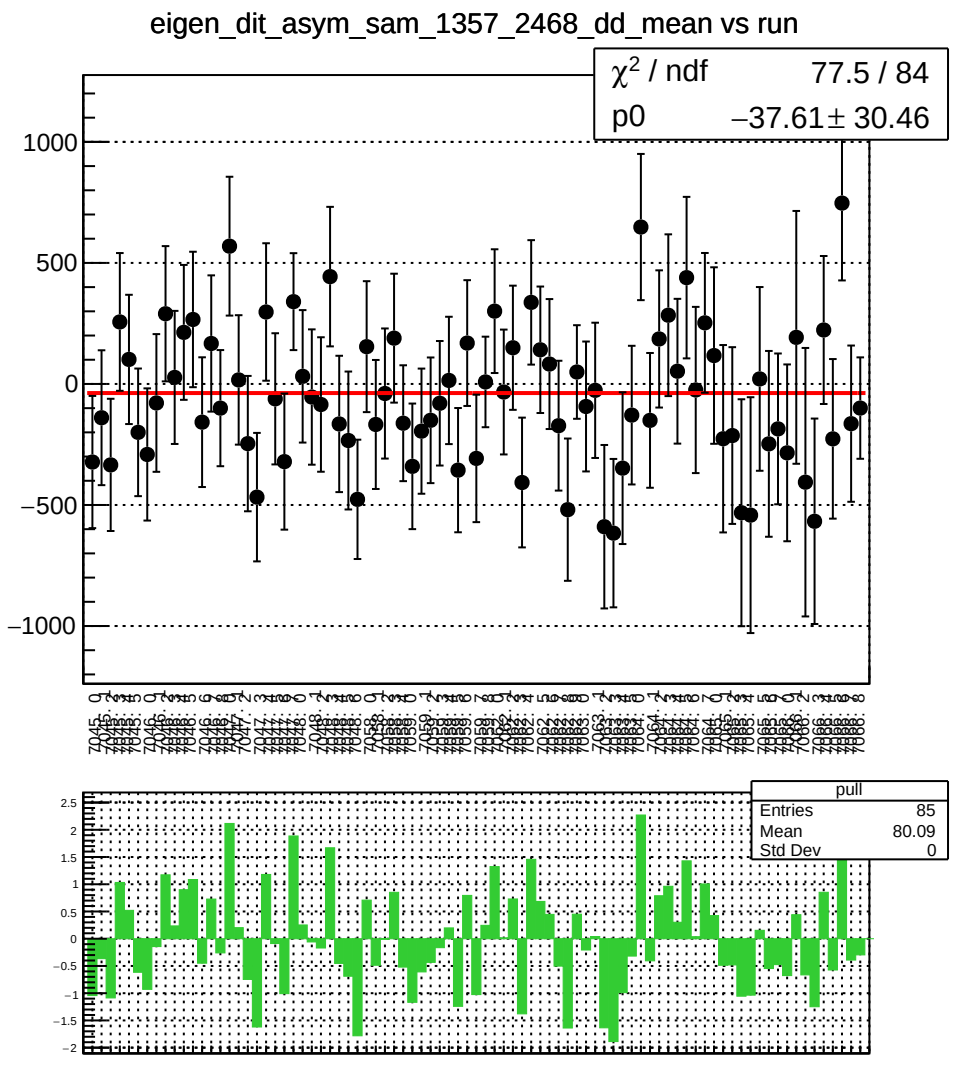

pull1D
Entries 85
Mean −0.02364
Std Dev 0.9546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

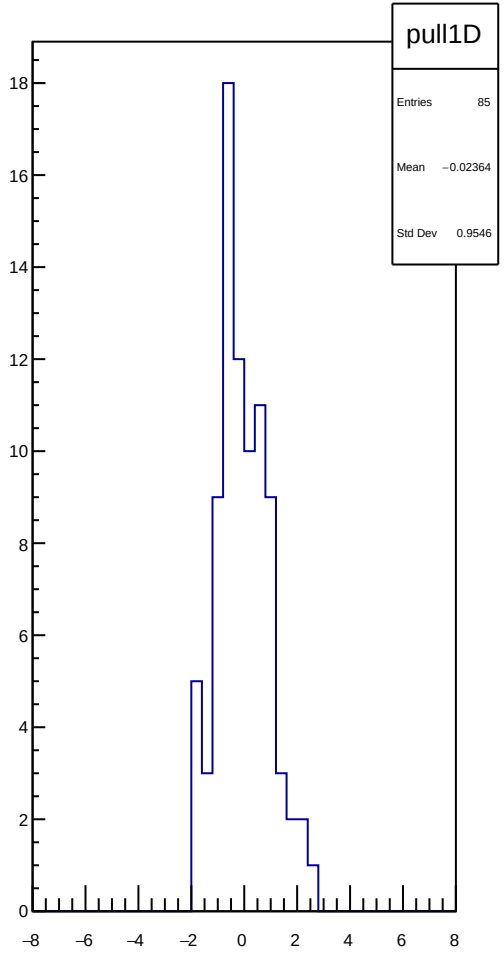

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.413e+04 / 84
p0 27.35 ± 0.02154
55
50
45
40
35
30
25

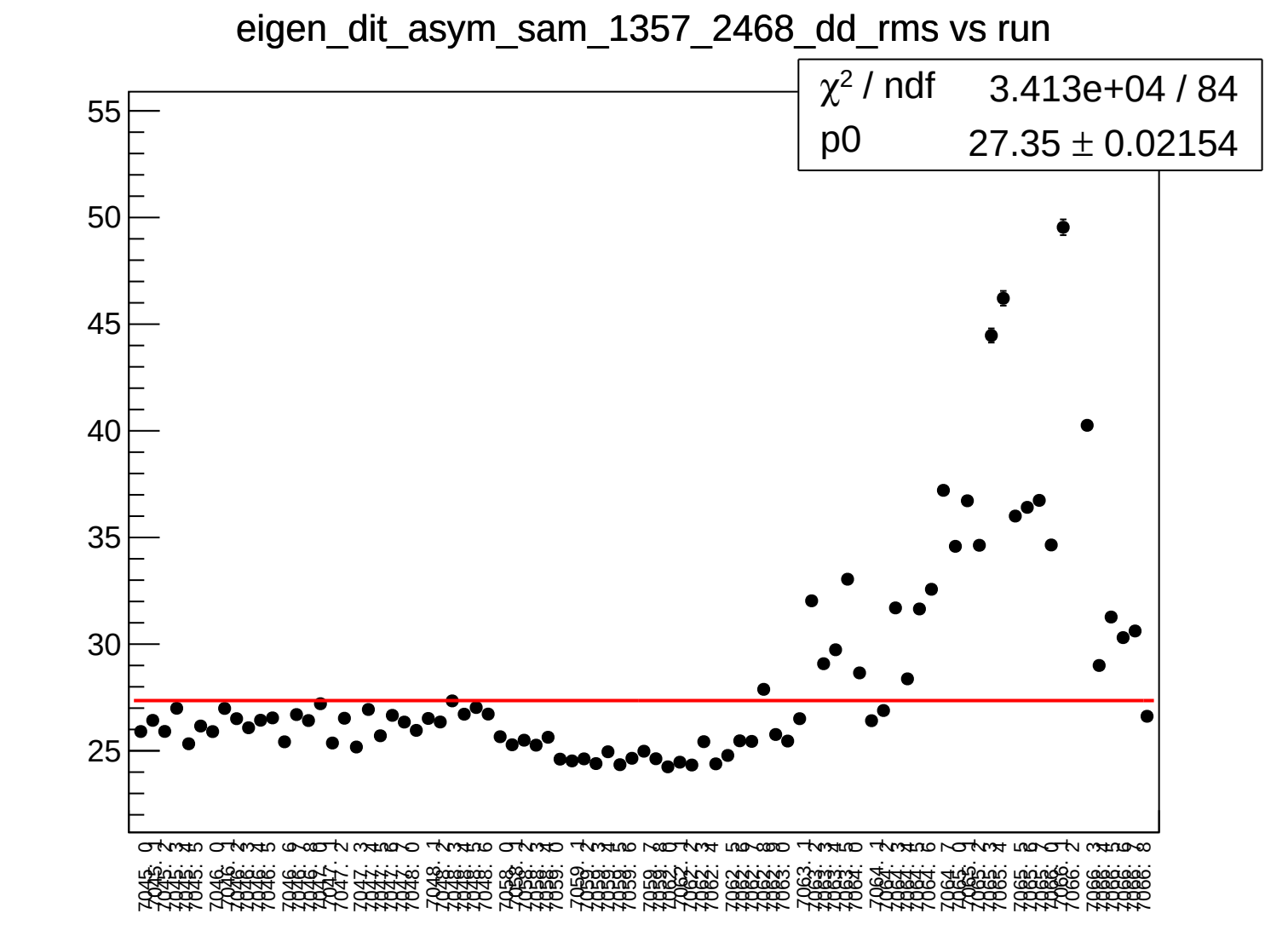

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 60.75 / 84
p0 296.6 ± 215.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −146.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

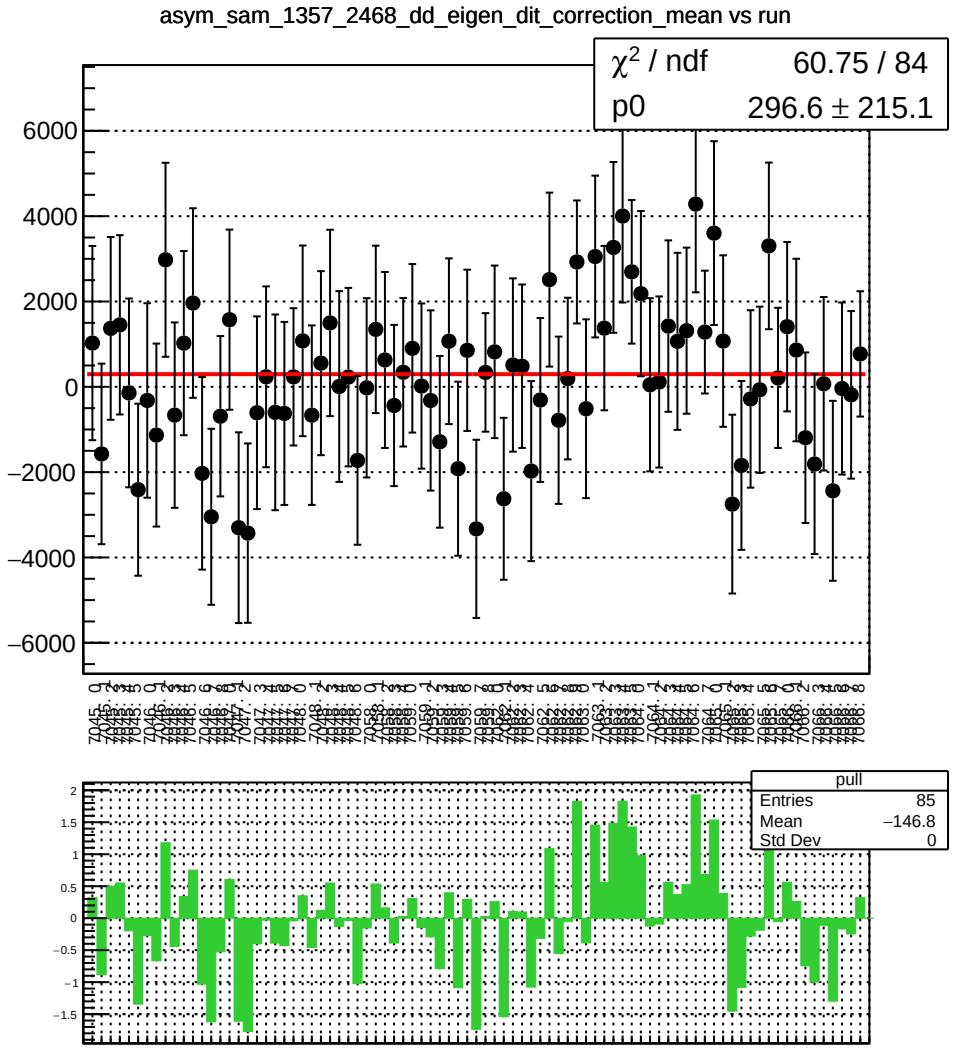

pull1D
Entries 85
Mean −0.02159
Std Dev 0.8451
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

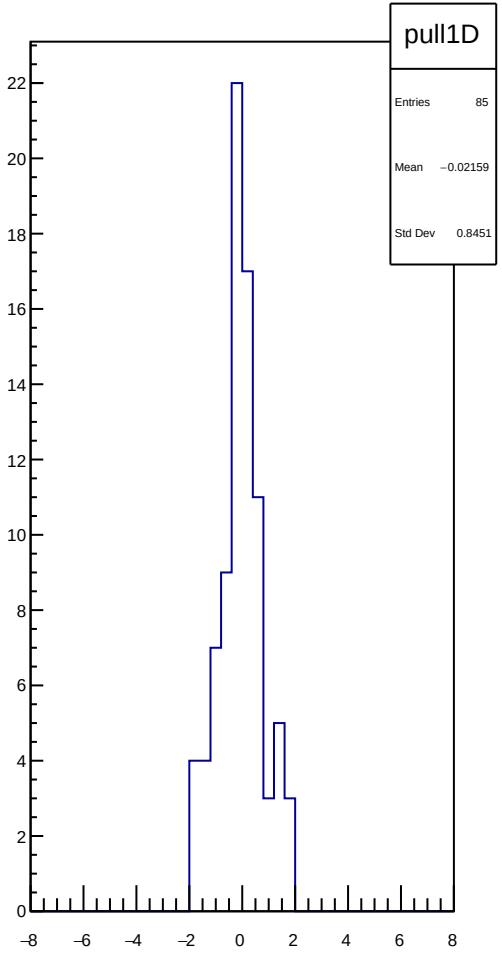

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ^2 / ndf 4476 / 84
p0 195 ± 0.1521
220
215
210
205
200
195
190
185
180
175

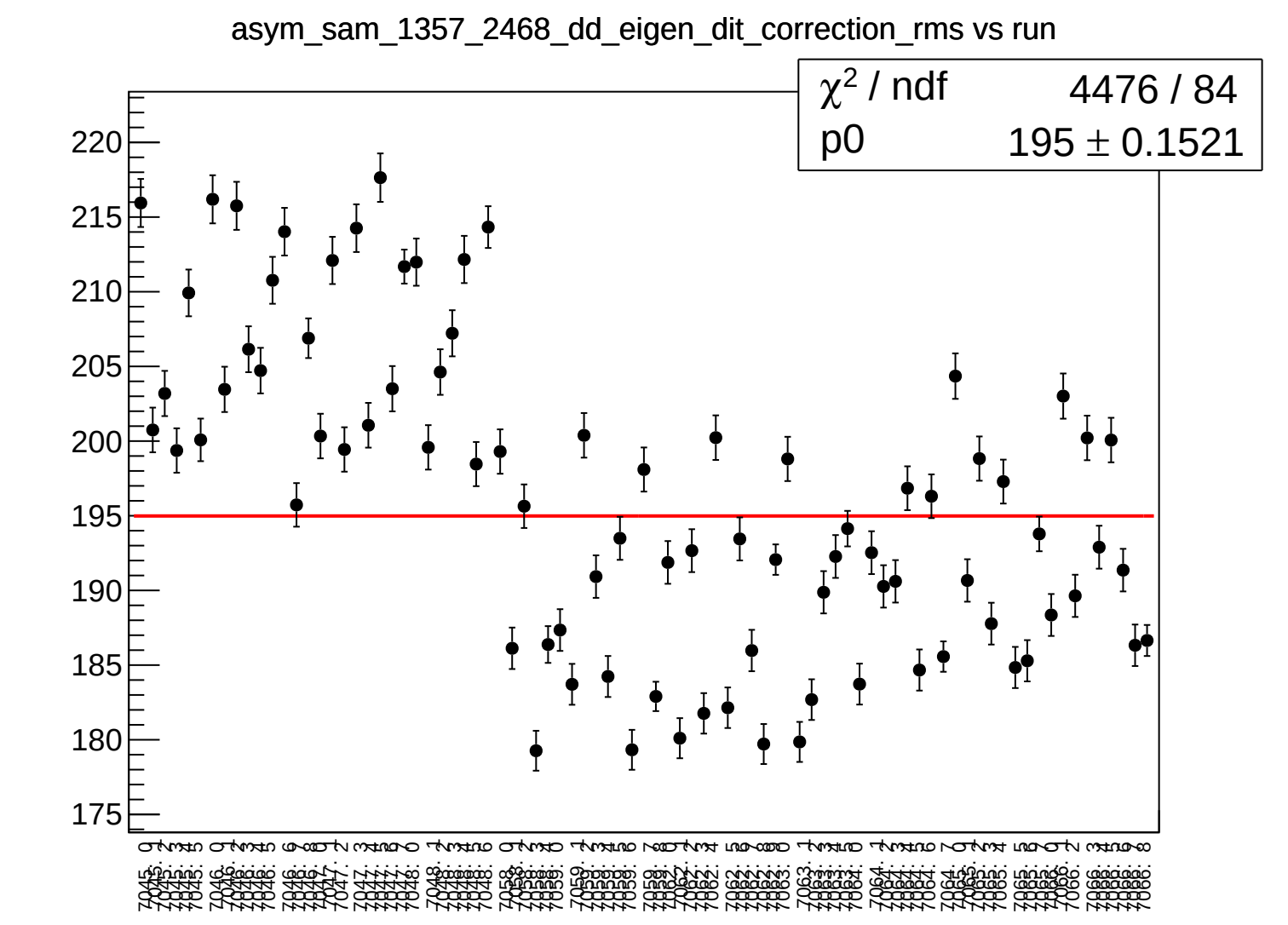

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.5 / 84
p0 −37.61 ± 30.46
1000
500
0
−500
−1000
pull
Entries 85
Mean 80.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

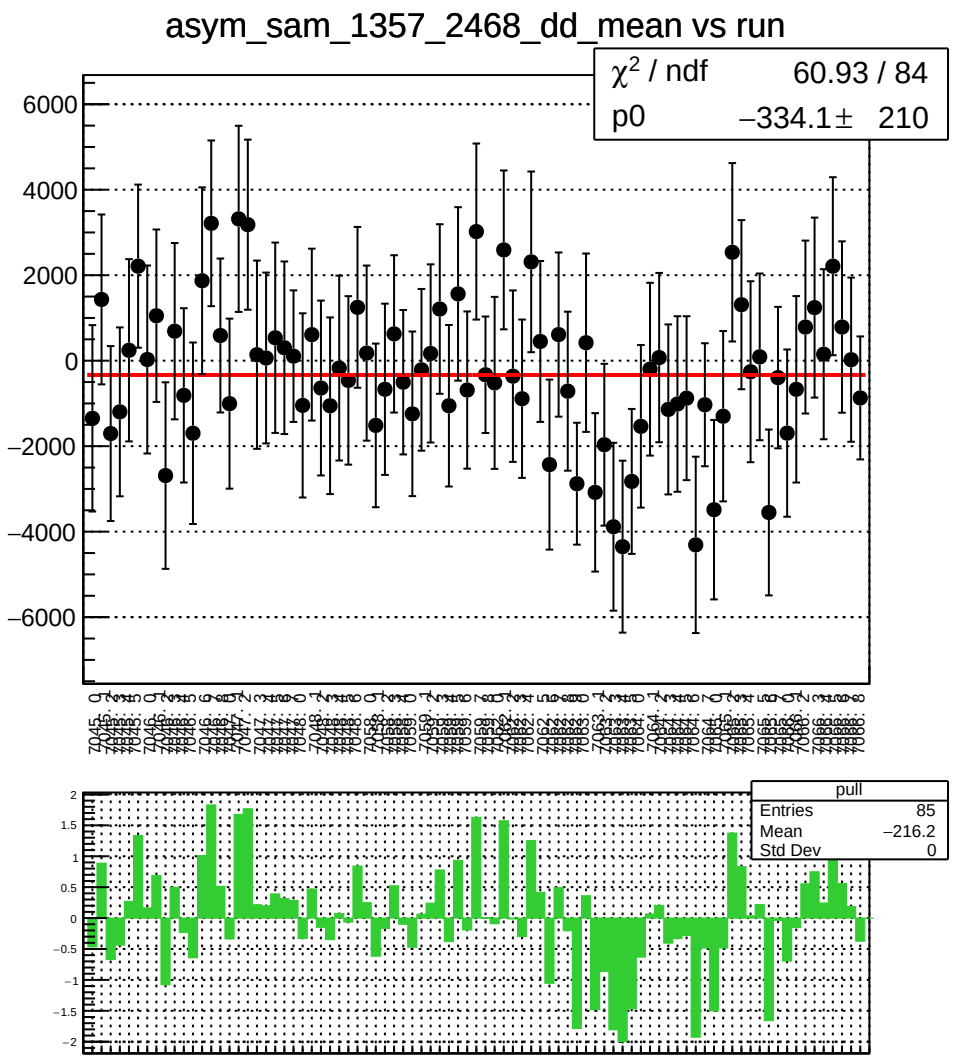

pull1D
Entries 85
Mean −0.02364
Std Dev 0.9546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

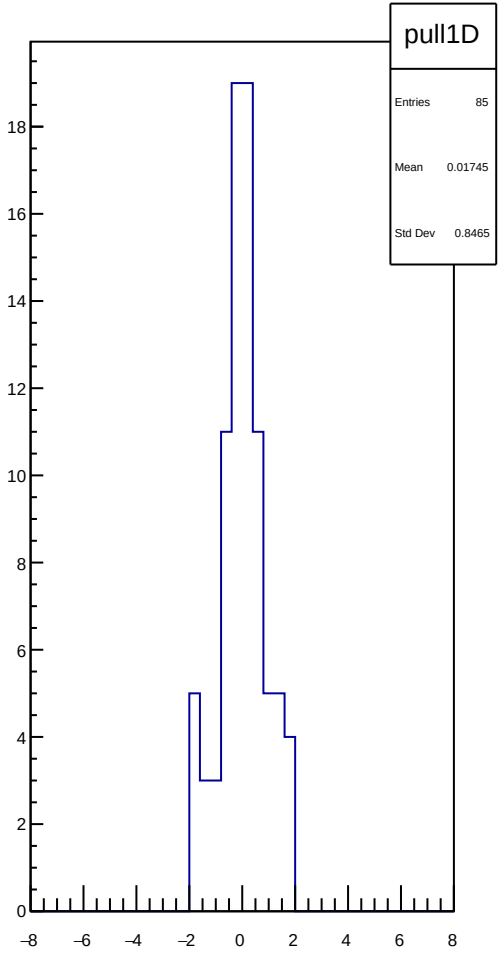

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.413e+04 / 84
p0 27.35 ± 0.02154
55
50
45
40
35
30
25

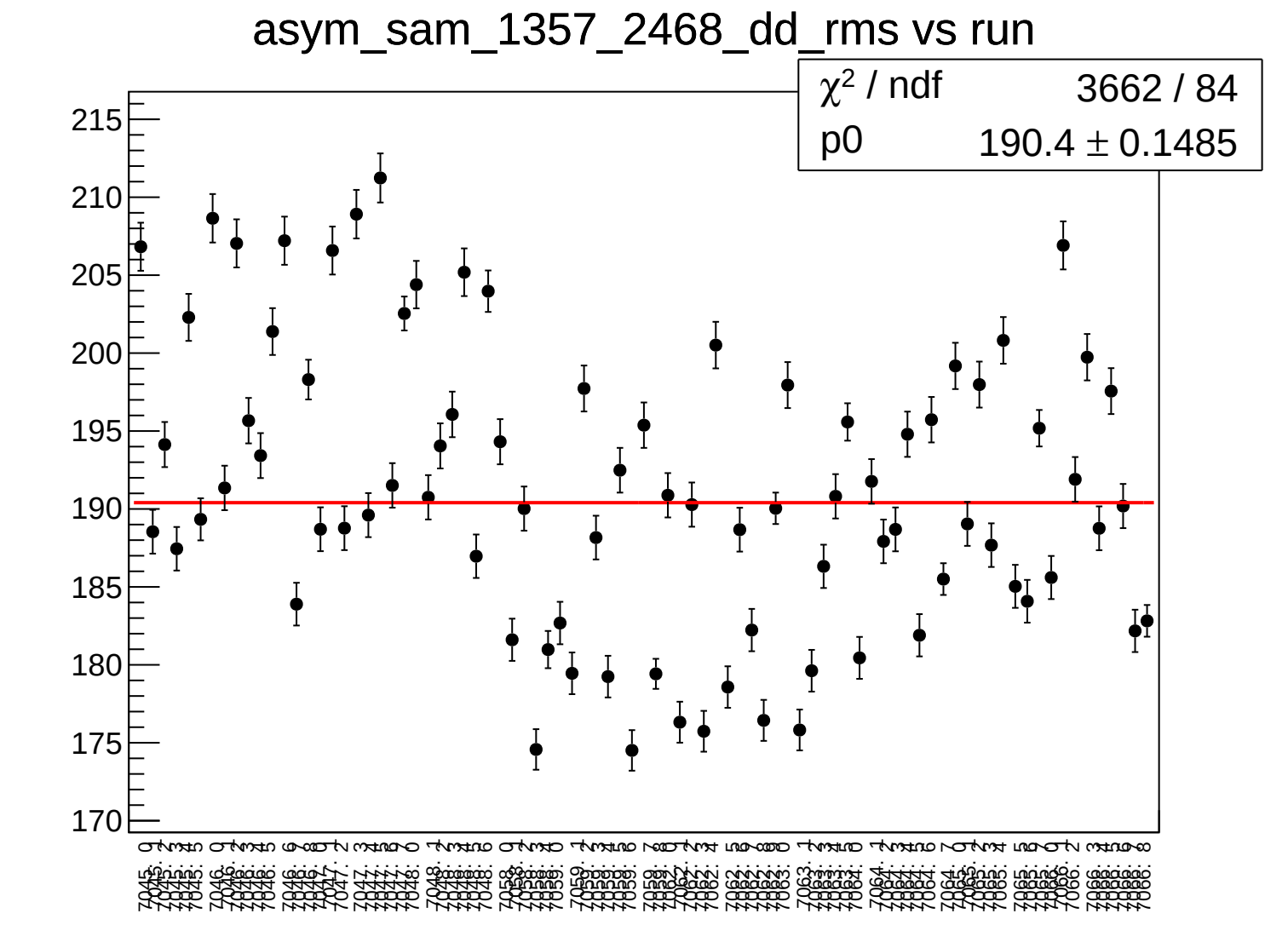

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 60.75 / 84
p0 296.6 ± 215.1
pull
Entries 85
Mean −146.8
Std Dev 0

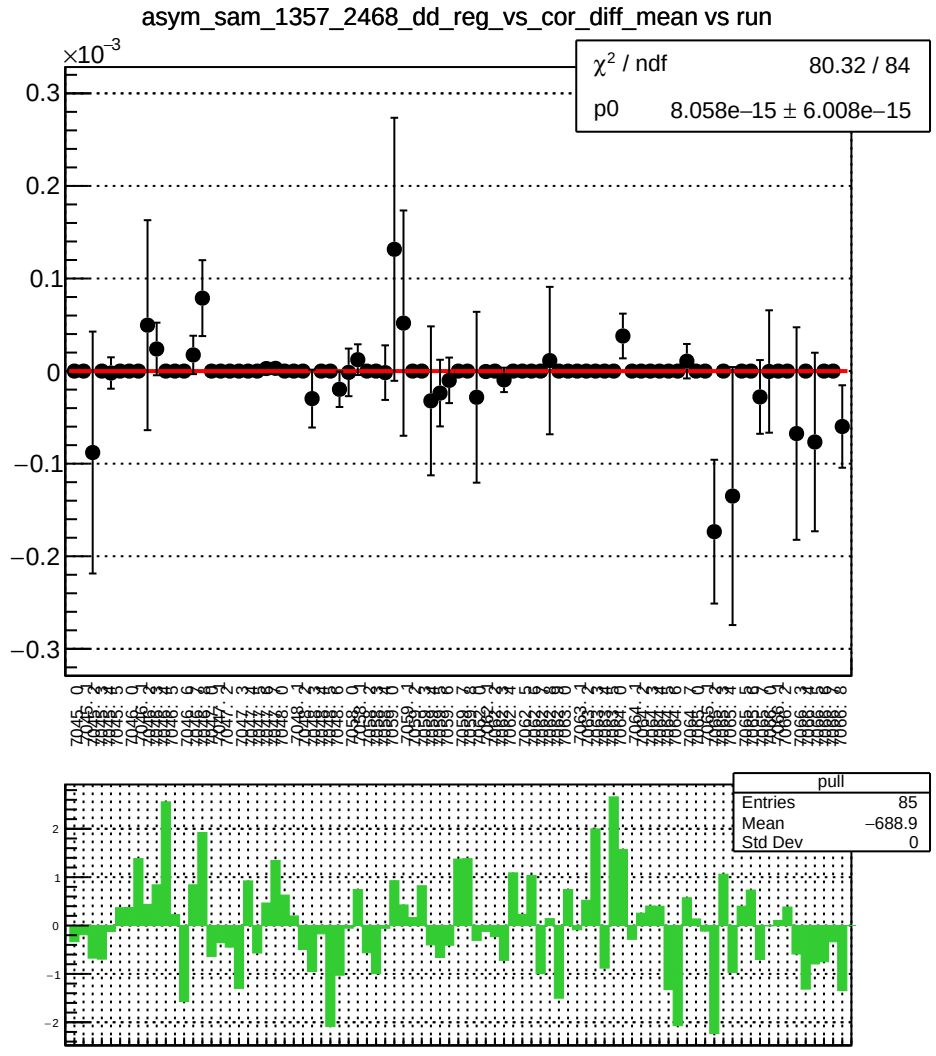

pull1D
Entries 85
Mean −0.02159
Std Dev 0.8451

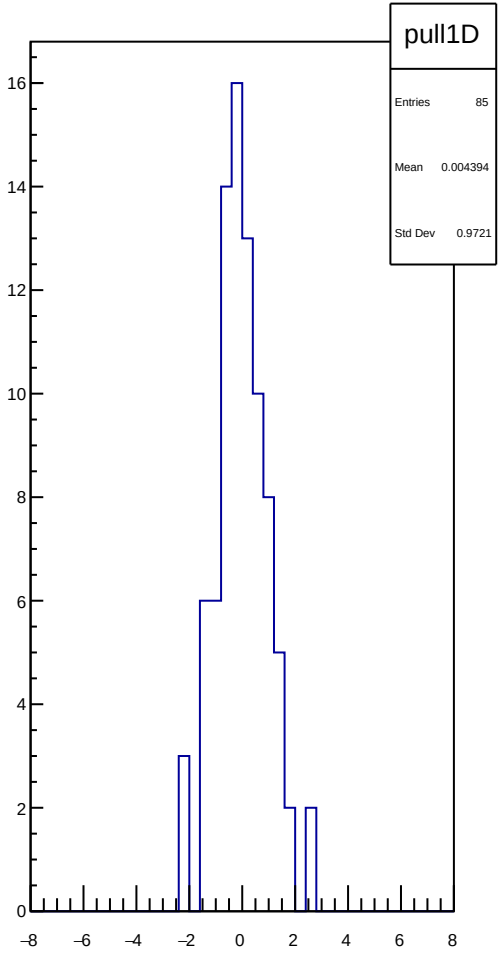

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4476 / 84
p0 195 ± 0.1521
220
215
210
205
200
195
190
185
180
175

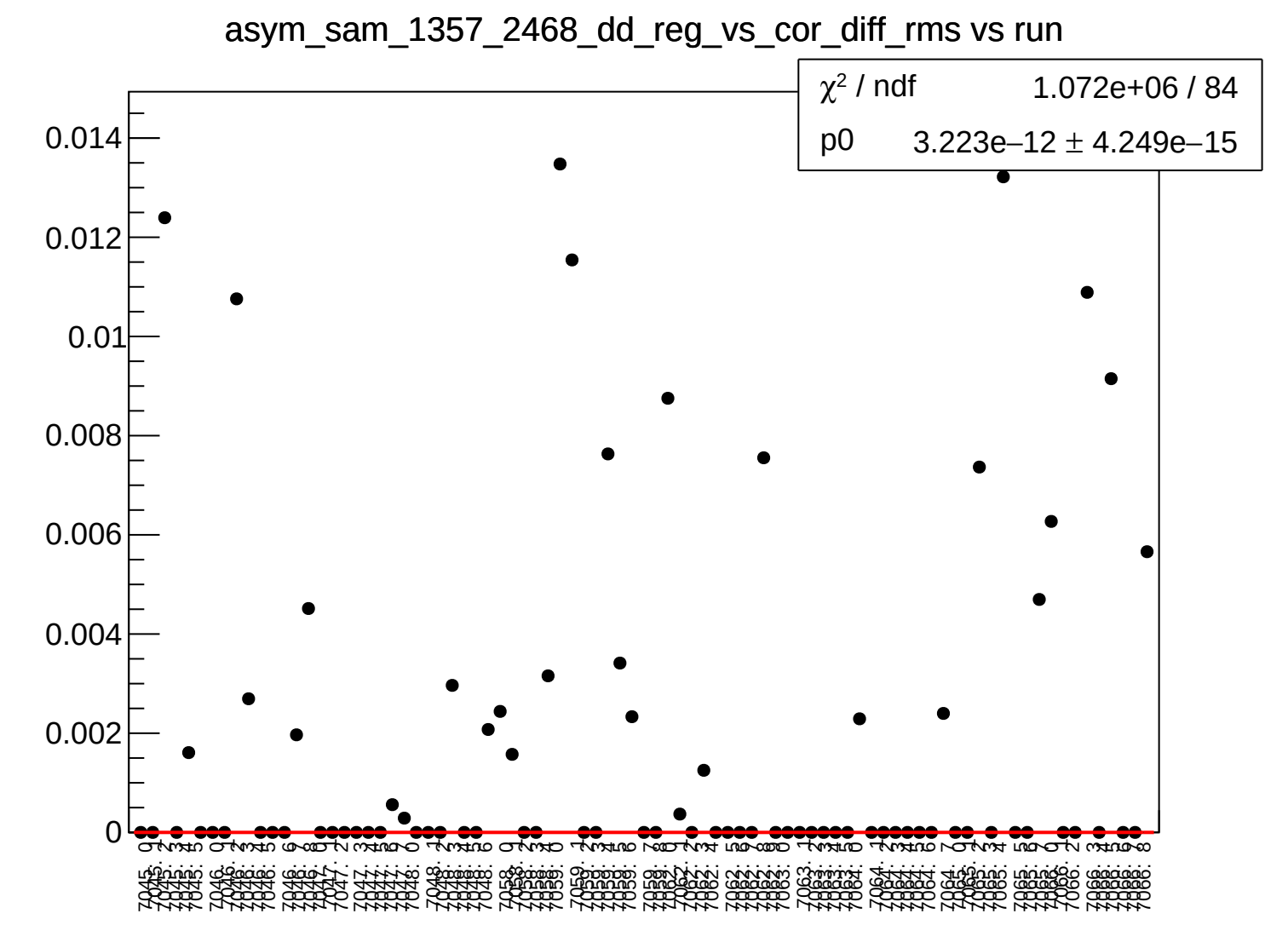

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 60.93 / 84
p0 −334.1± 210
pull
Entries 85
Mean −216.2
Std Dev 0

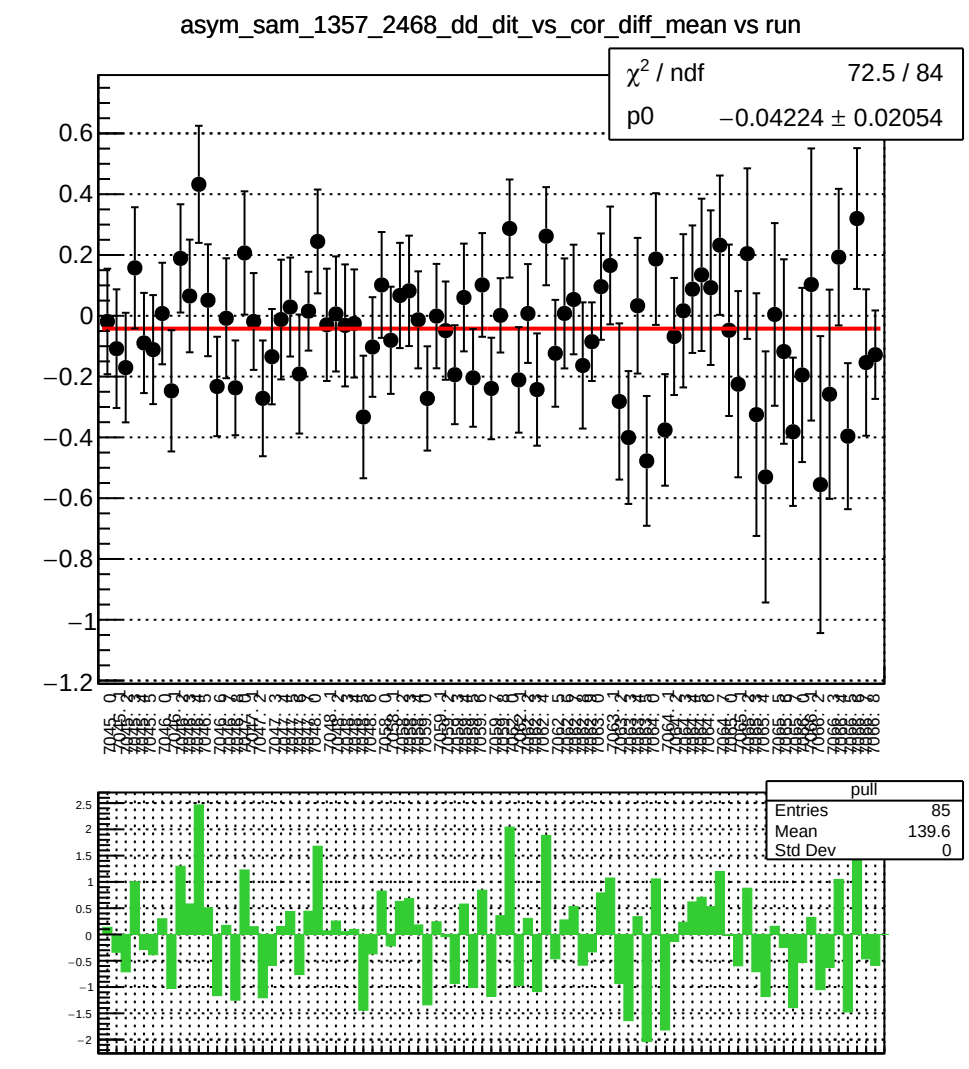

pull1D
Entries 85
Mean 0.01745
Std Dev 0.8465

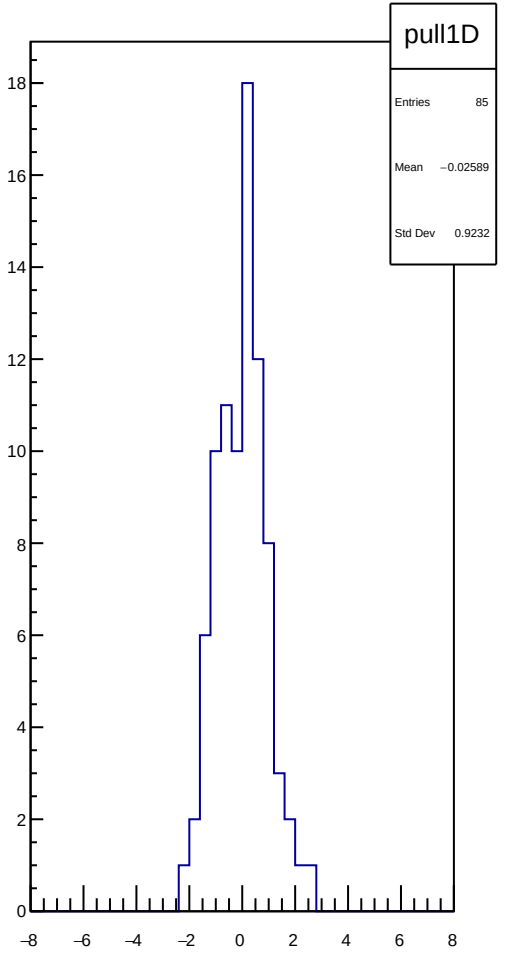

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3662 / 84
p0 190.4 ± 0.1485
215
210
205
200
195
190
185
180
175
170

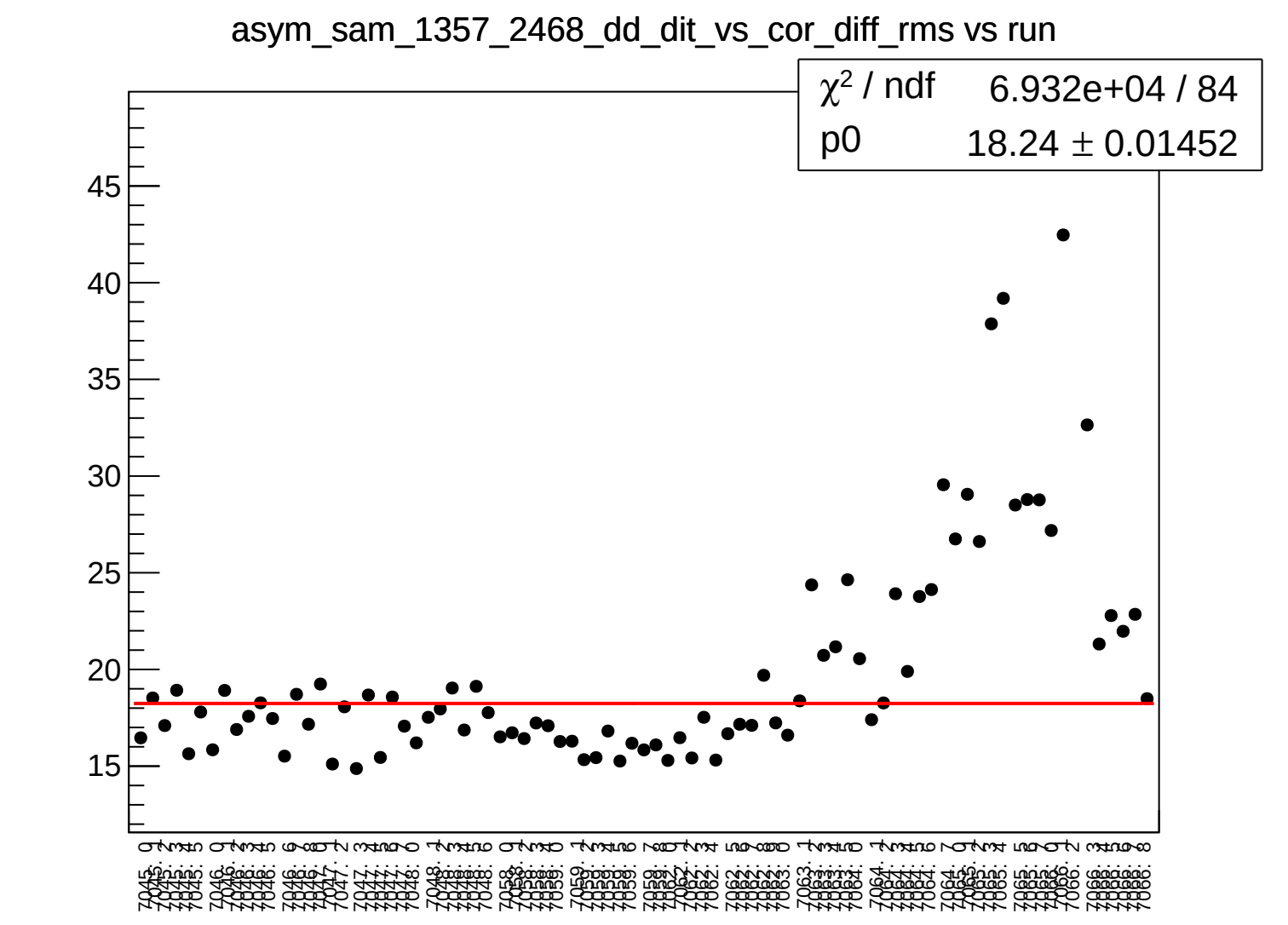

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.32 / 84
p0 8.058e−15 ± 6.008e−15
pull
Entries 85
Mean −688.9
Std Dev 0

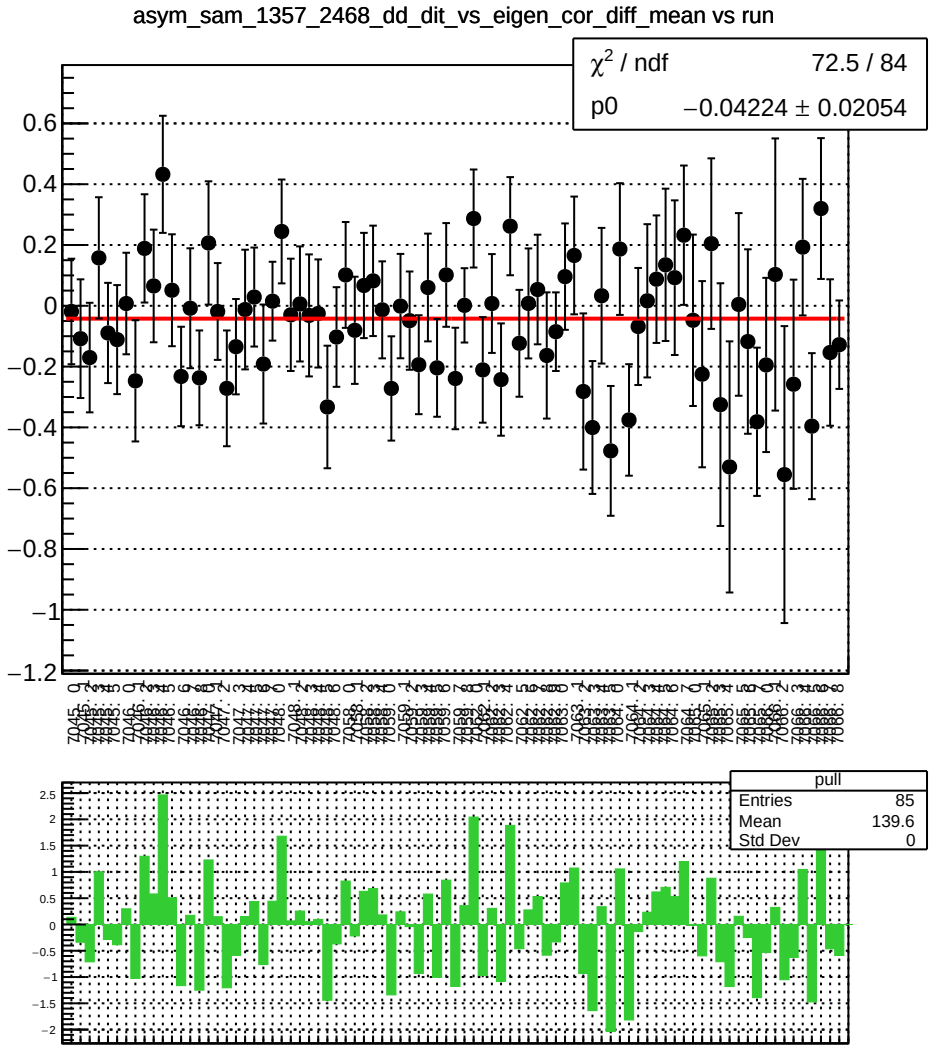

pull1D
Entries 85
Mean 0.004394
Std Dev 0.9721

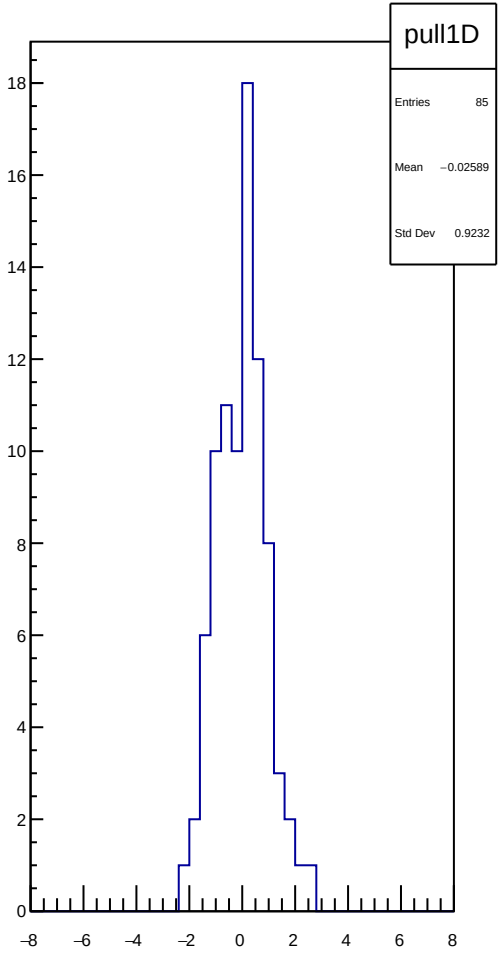

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 84
p0 3.223e−12 ± 4.249e−15
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

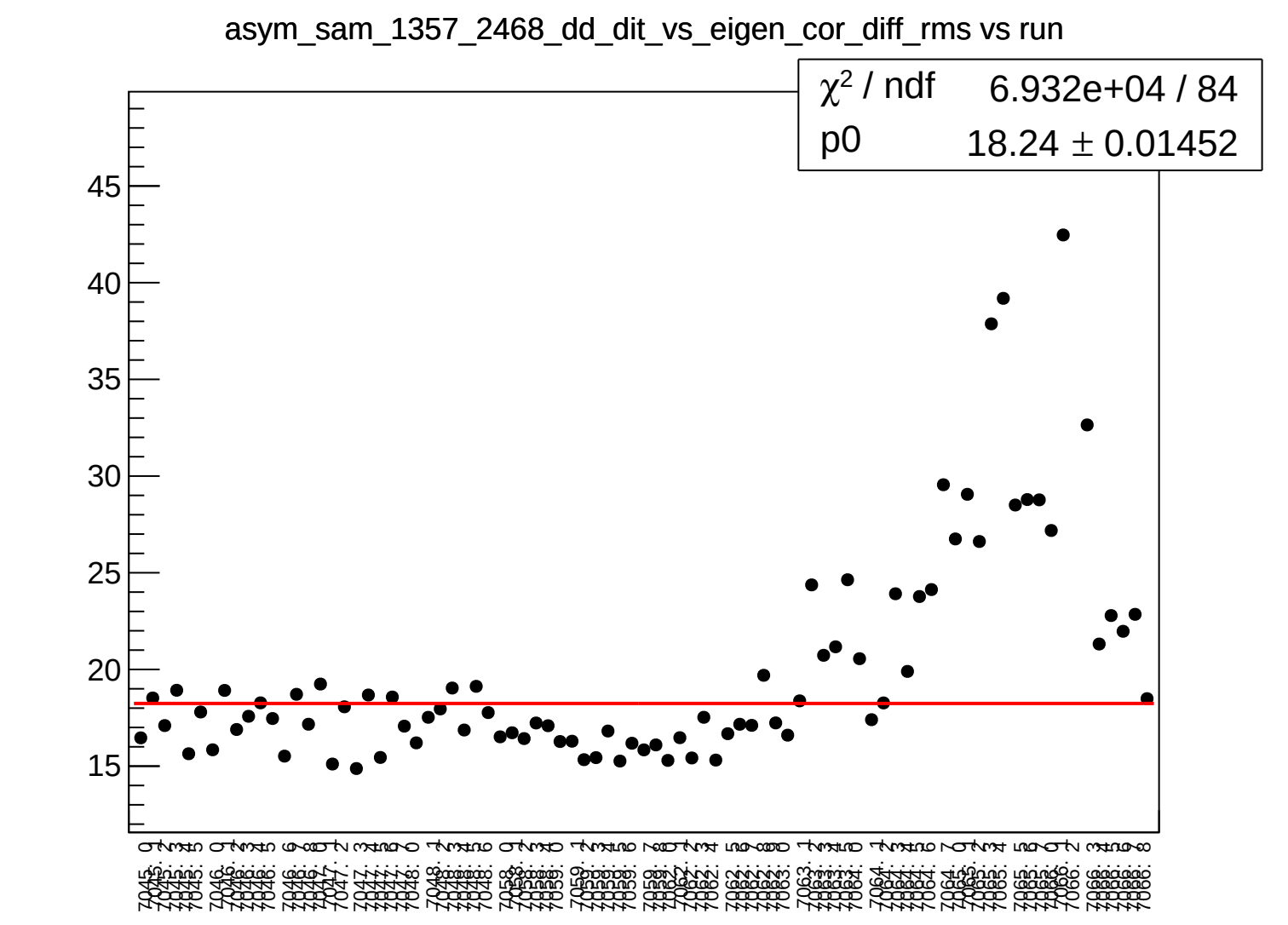

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.5 / 84
p0 −0.04224 ± 0.02054
pull
Entries 85
Mean 139.6
Std Dev 0

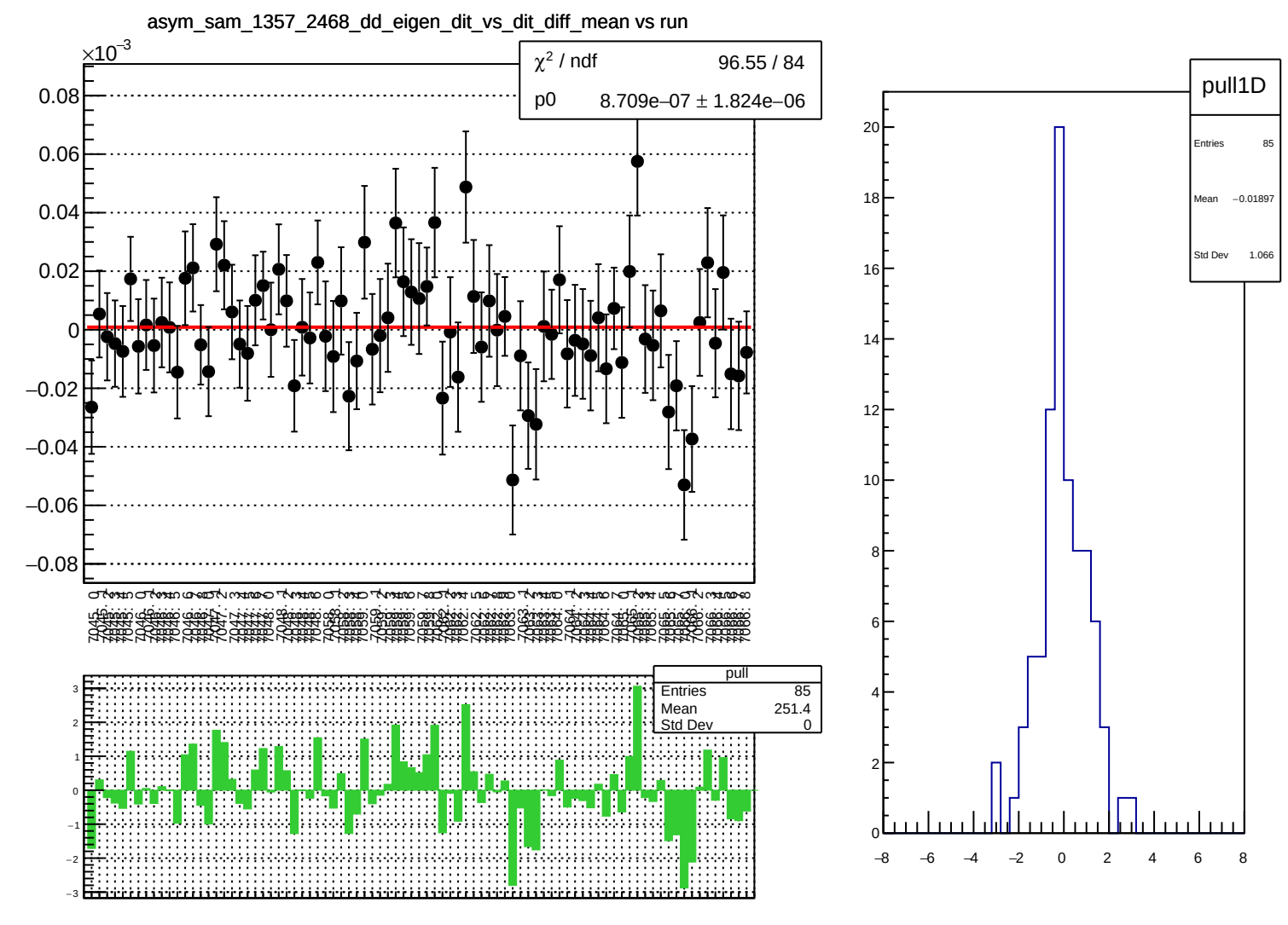

pull1D
Entries 85
Mean −0.02589
Std Dev 0.9232

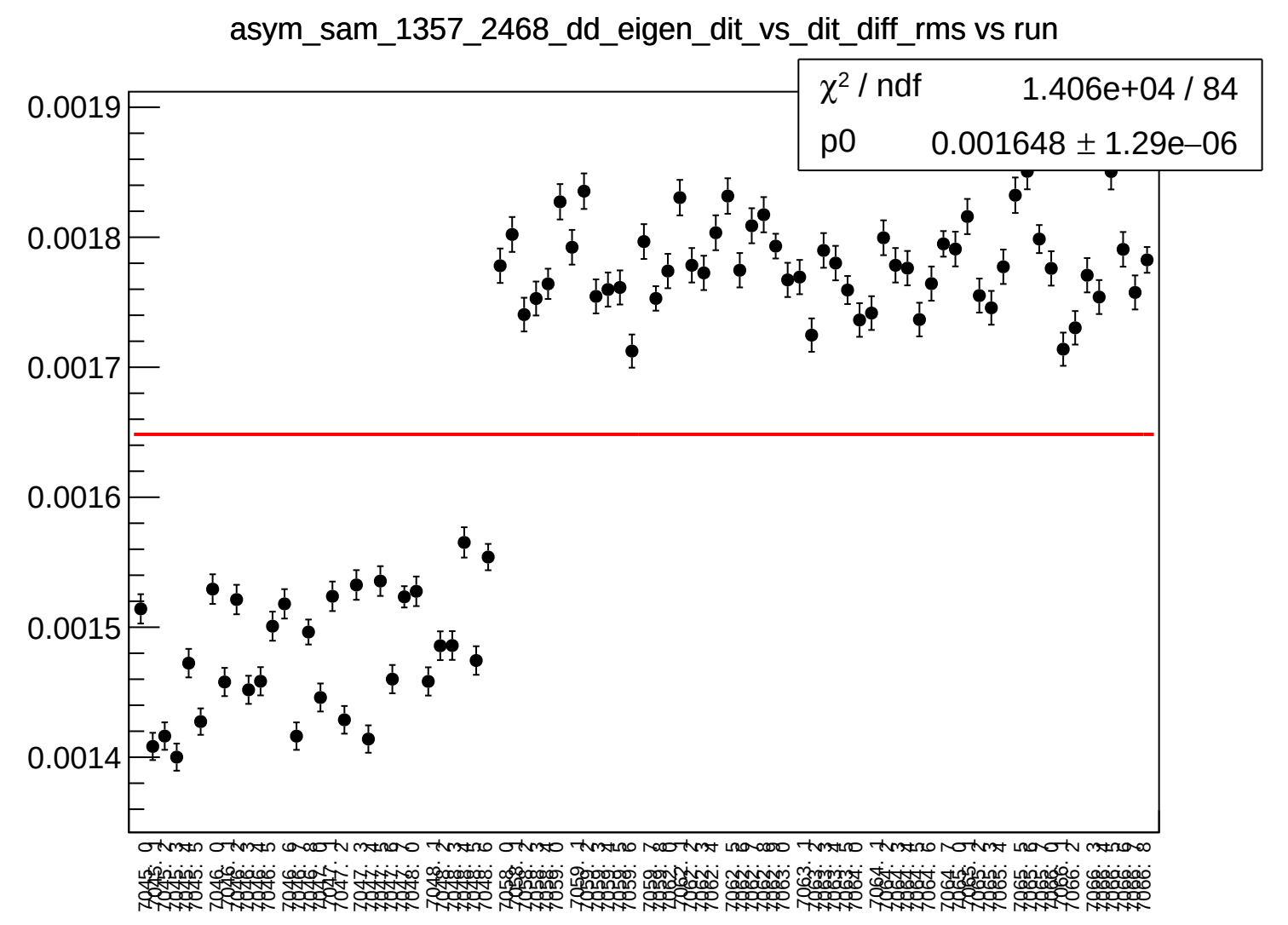

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.932e+04 / 84
p0 18.24 ± 0.01452
45
40
35
30
25
20
15

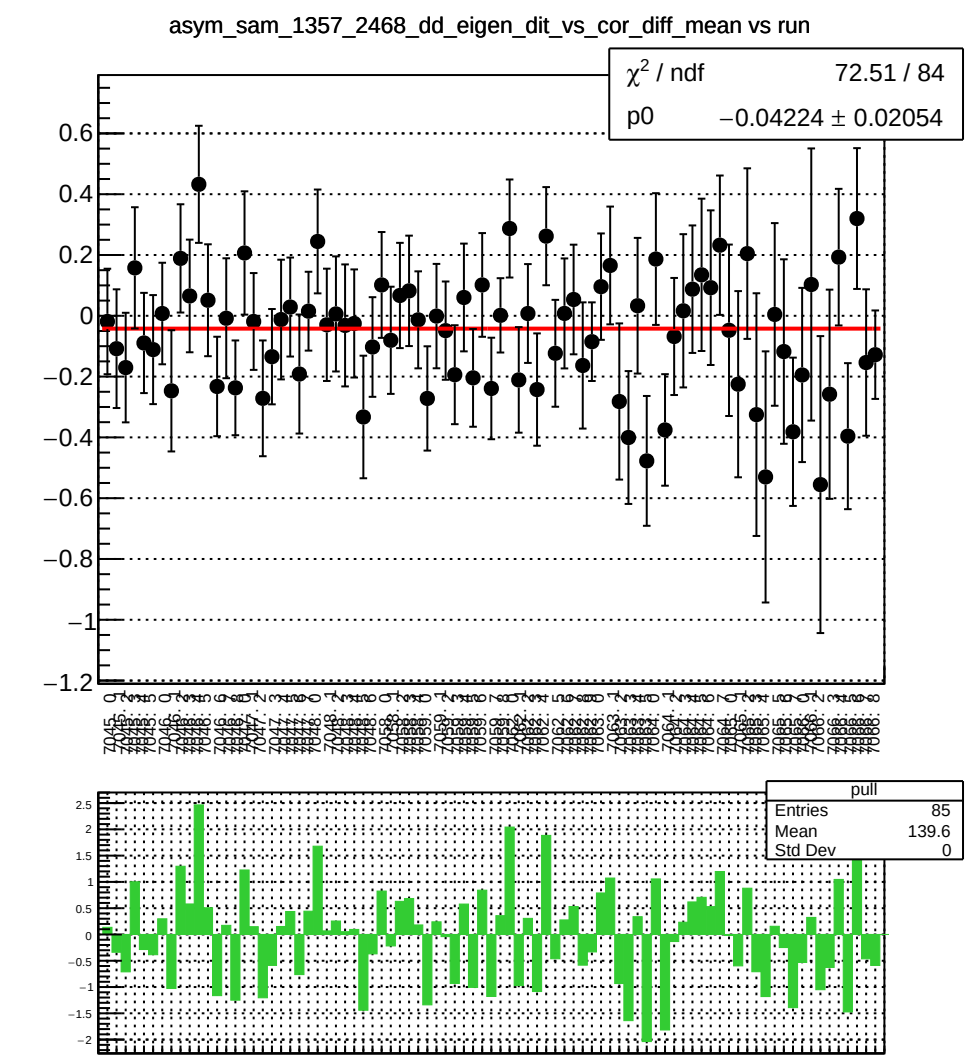

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.5 / 84
p0 −0.04224 ± 0.02054
pull
Entries 85
Mean 139.6
Std Dev 0

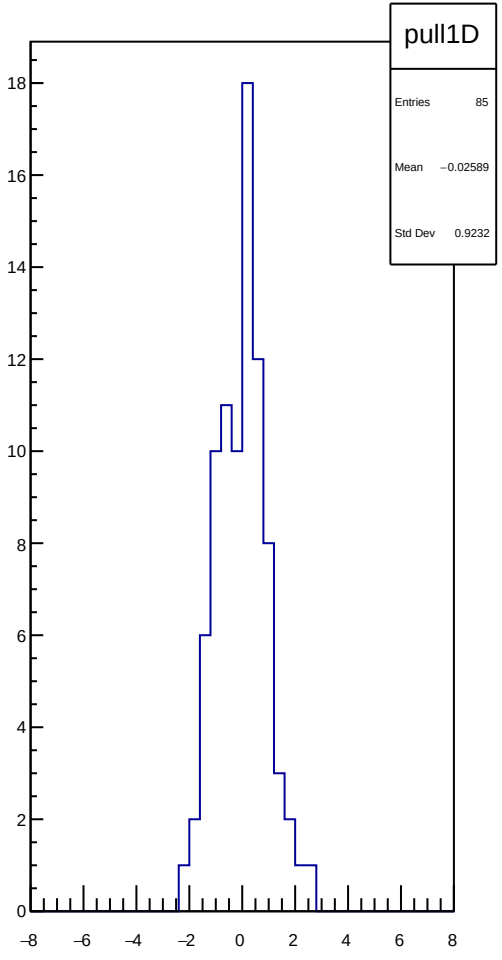

pull1D
Entries 85
Mean −0.02589
Std Dev 0.9232

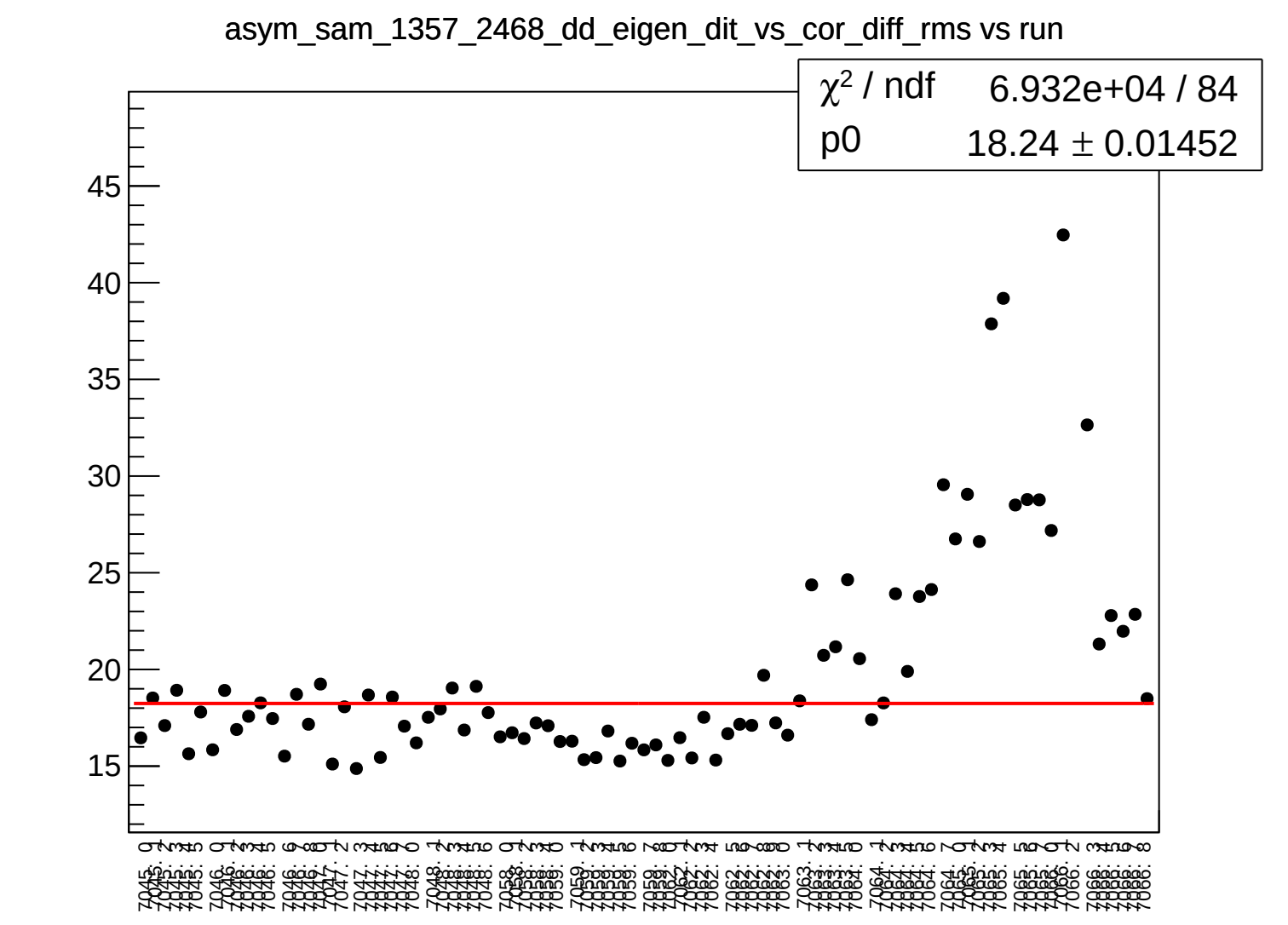

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.932e+04 / 84
p0 18.24 ± 0.01452
45
40
35
30
25
20
15

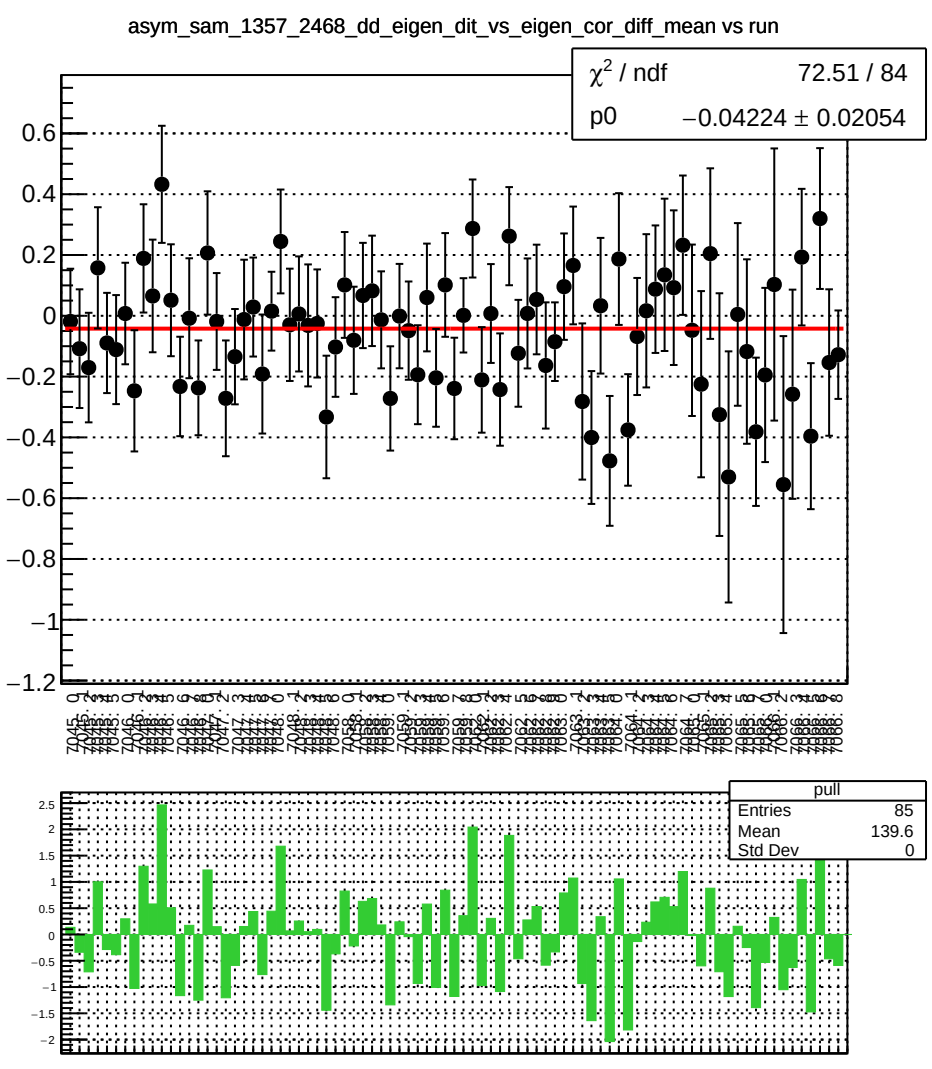

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.55 / 84
p0 8.709e−07 ± 1.824e−06
pull
Entries 85
Mean 251.4
Std Dev 0
pull1D
Entries 85
Mean −0.01897
Std Dev 1.066

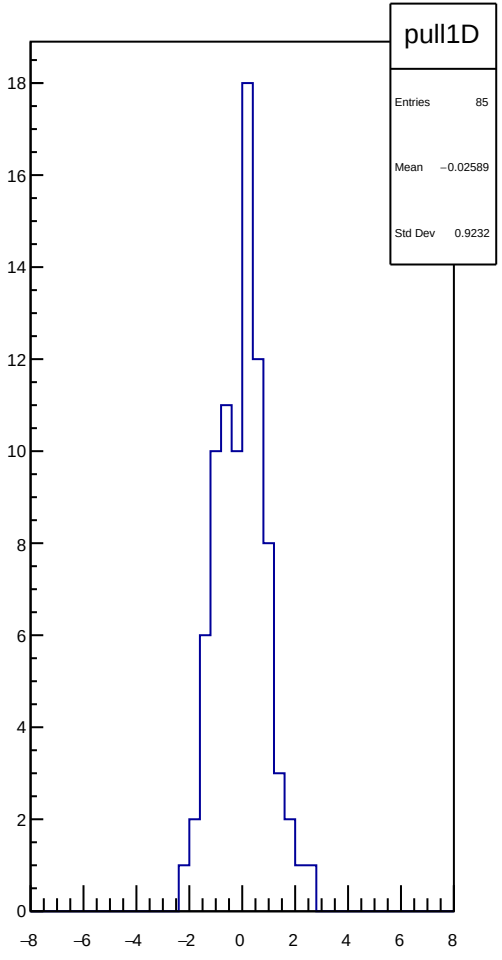

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.406e+04 / 84
p0 0.001648 ± 1.29e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

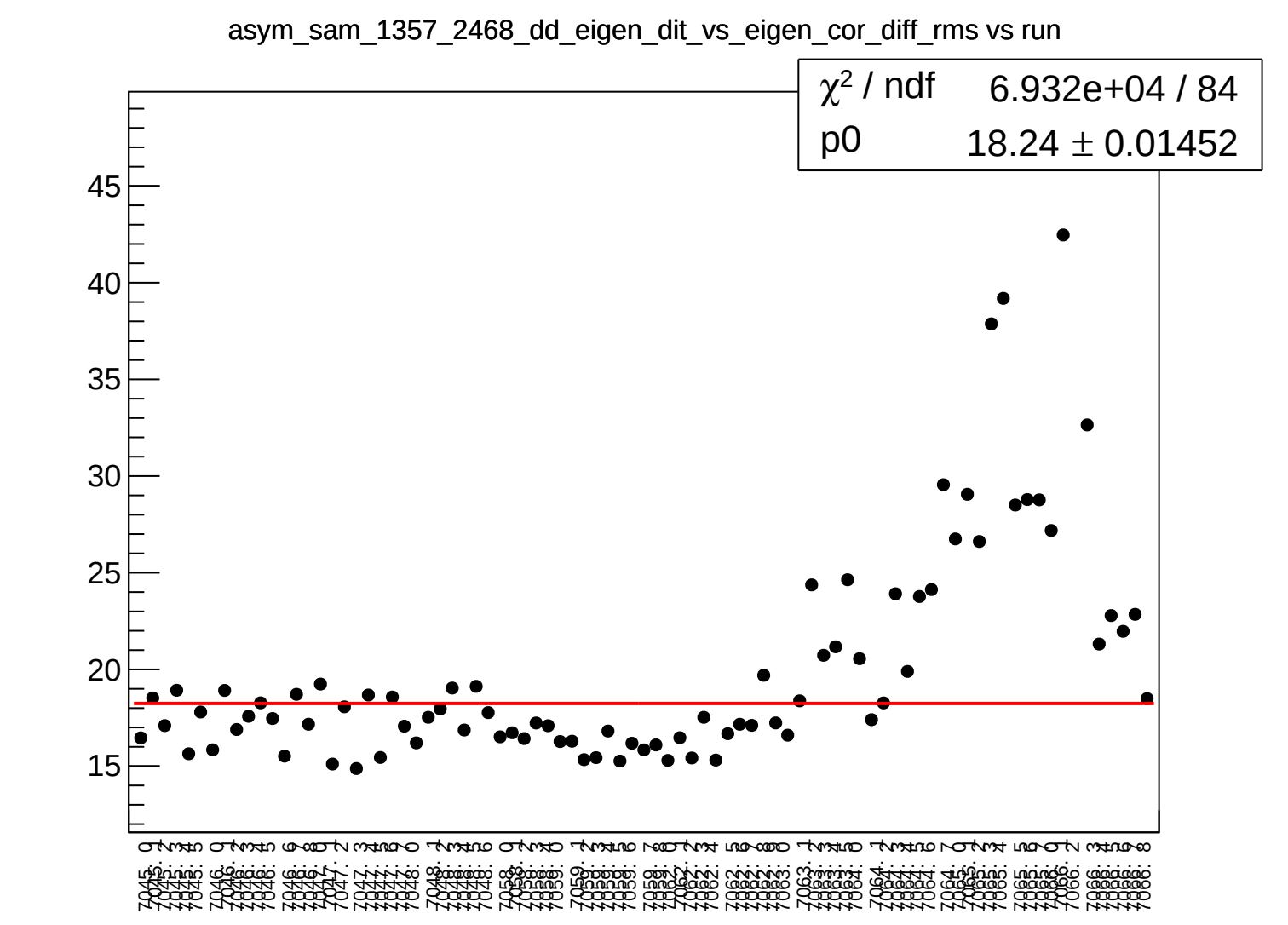

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.51 / 84
p0 −0.04224 ± 0.02054
pull
Entries 85
Mean 139.6
Std Dev 0

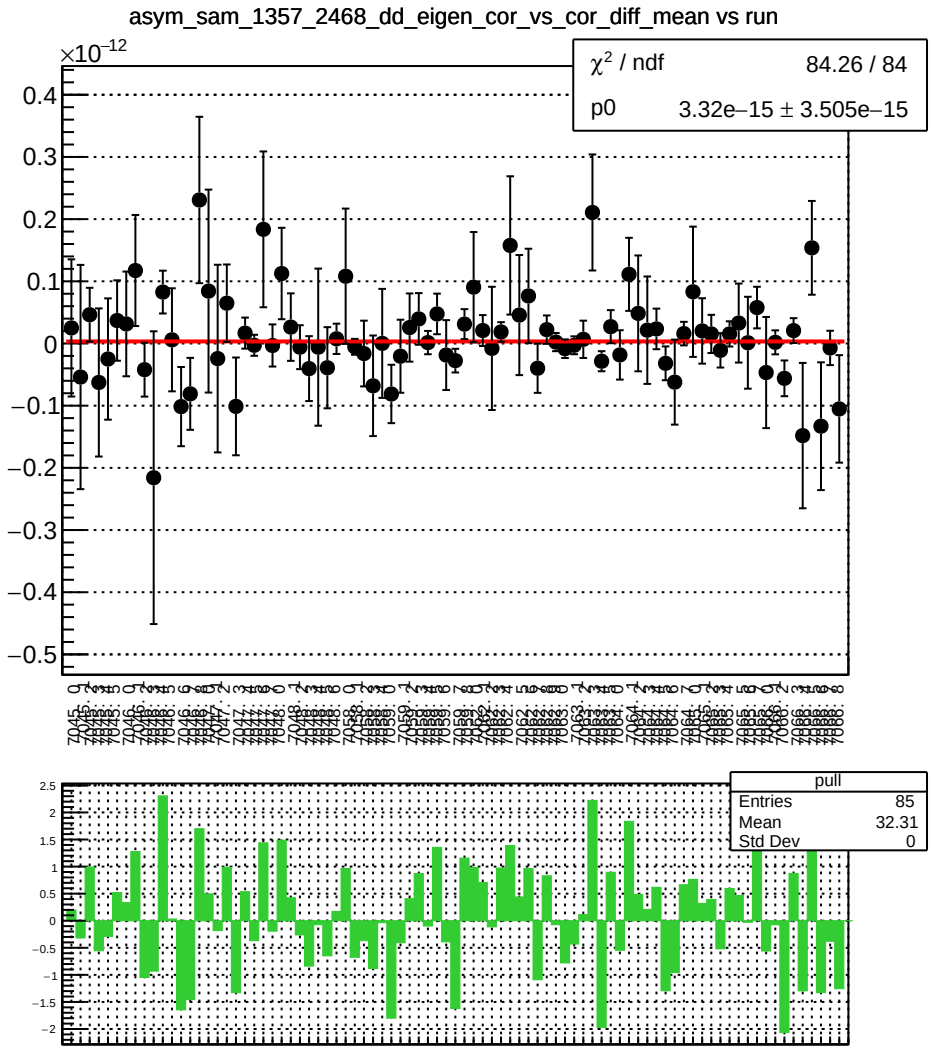

pull1D
Entries 85
Mean −0.02589
Std Dev 0.9232

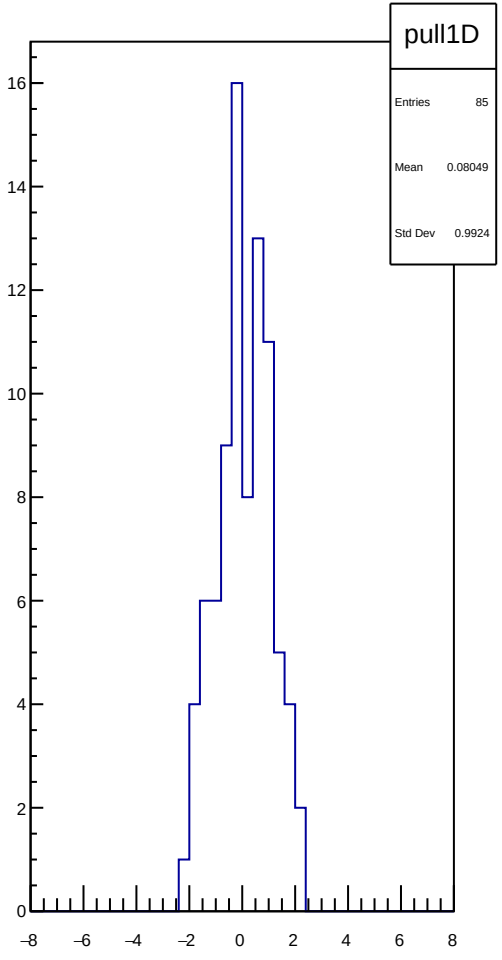

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.932e+04 / 84
p0 18.24 ± 0.01452
45
40
35
30
25
20
15

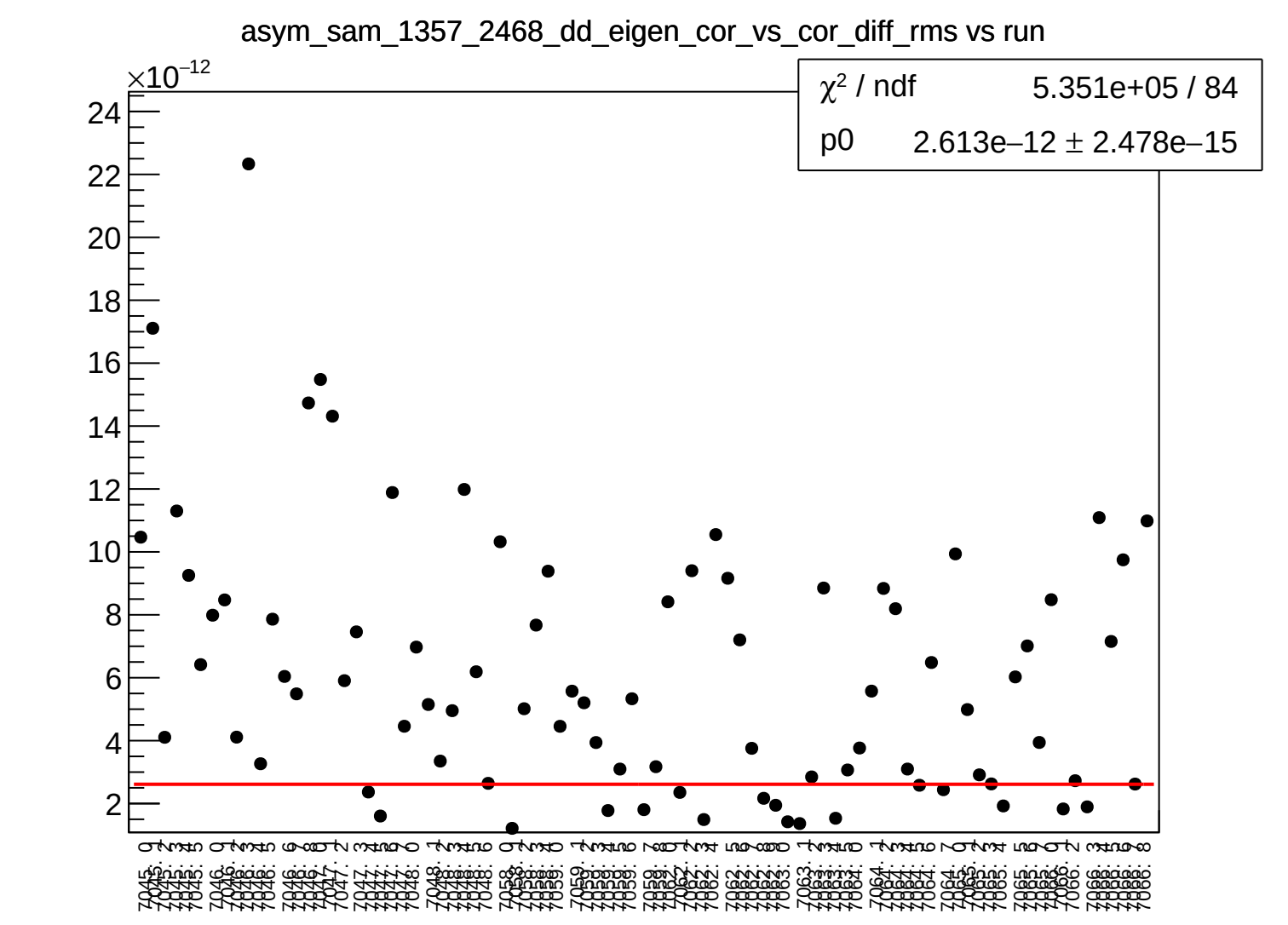

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.51 / 84
p0 −0.04224 ± 0.02054
pull
Entries 85
Mean 139.6
Std Dev 0

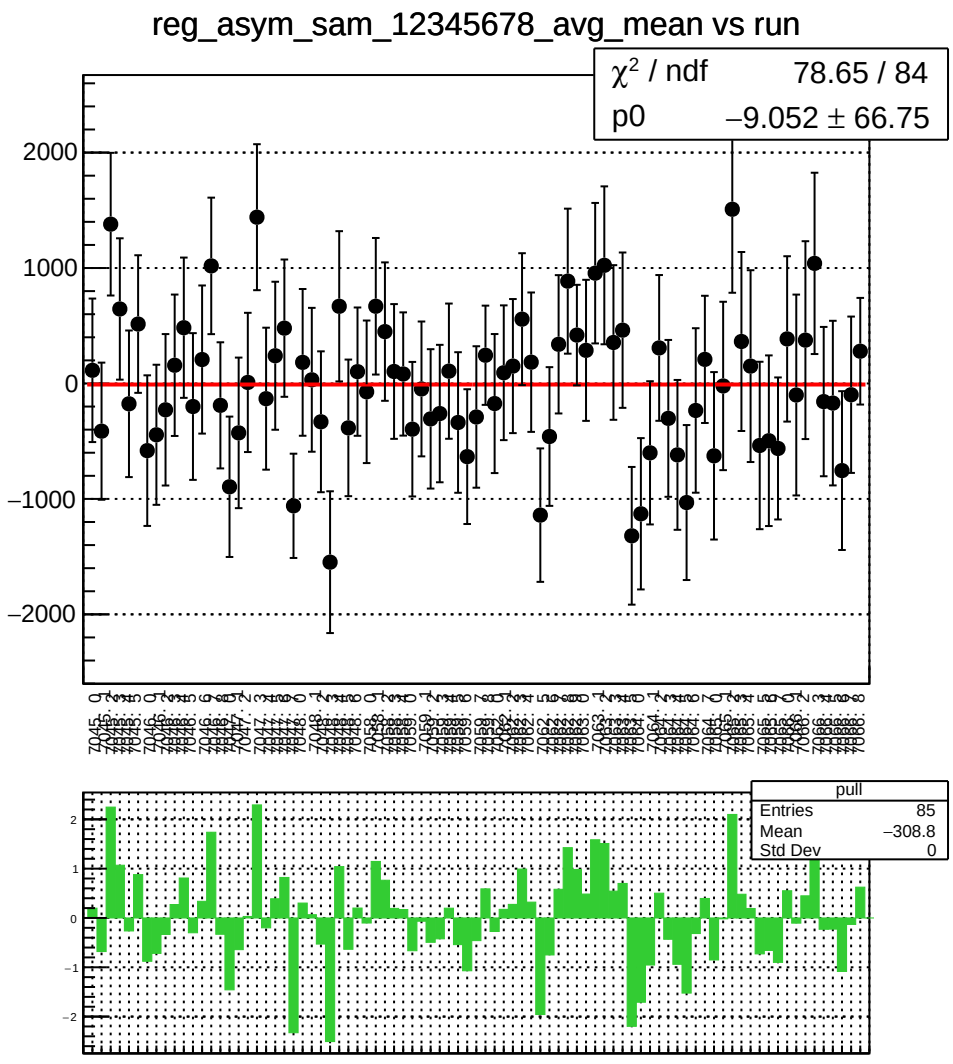

pull1D
Entries 85
Mean −0.02589
Std Dev 0.9232

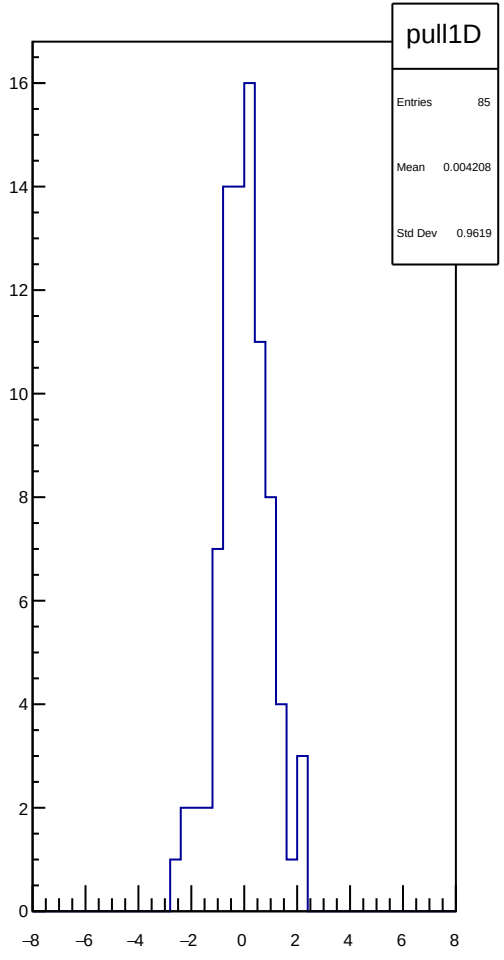

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.932e+04 / 84
p0 18.24 ± 0.01452
45
40
35
30
25
20
15

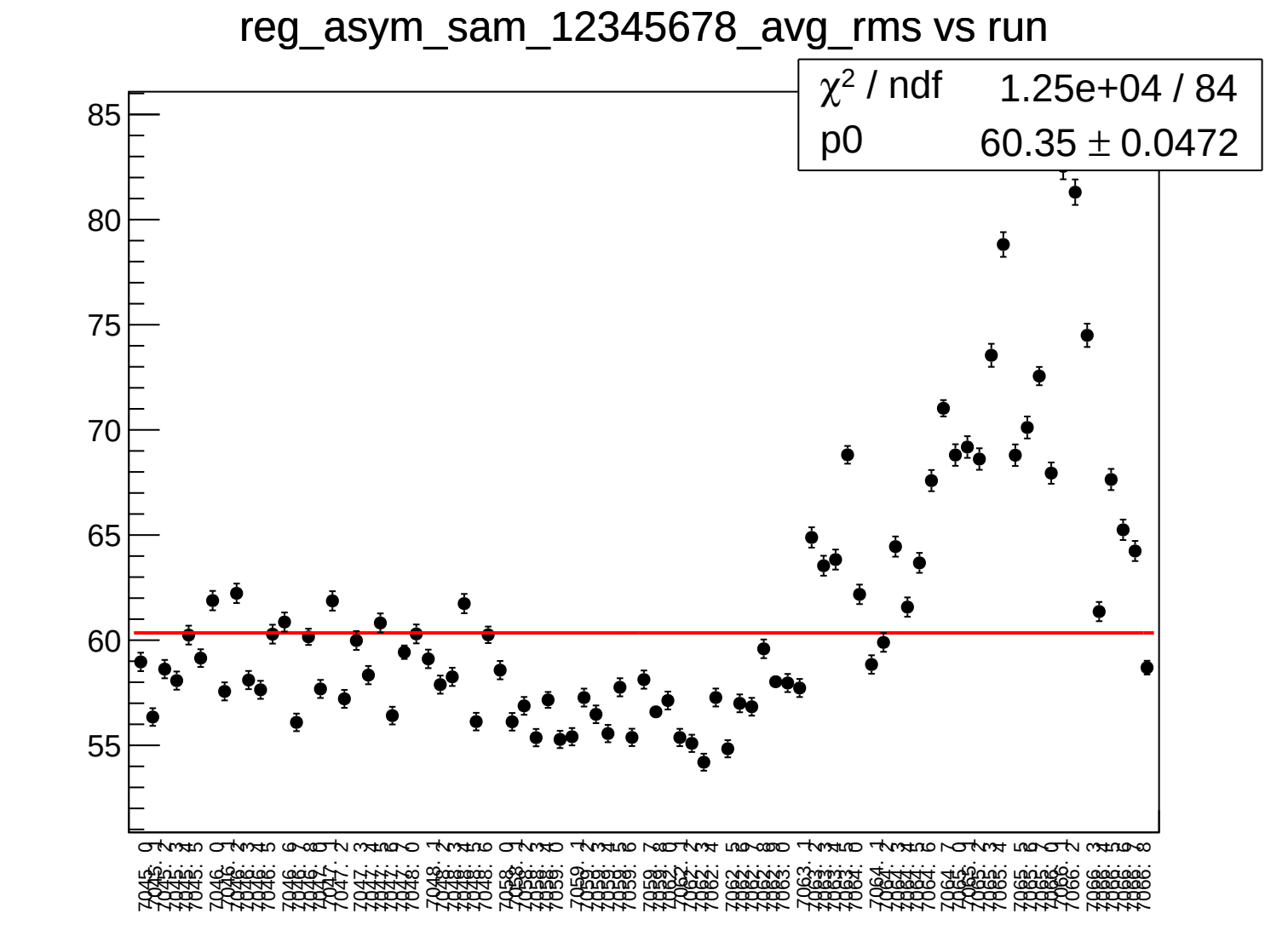

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.26 / 84
p0 3.32e−15 ± 3.505e−15
pull
Entries 85
Mean 32.31
Std Dev 0

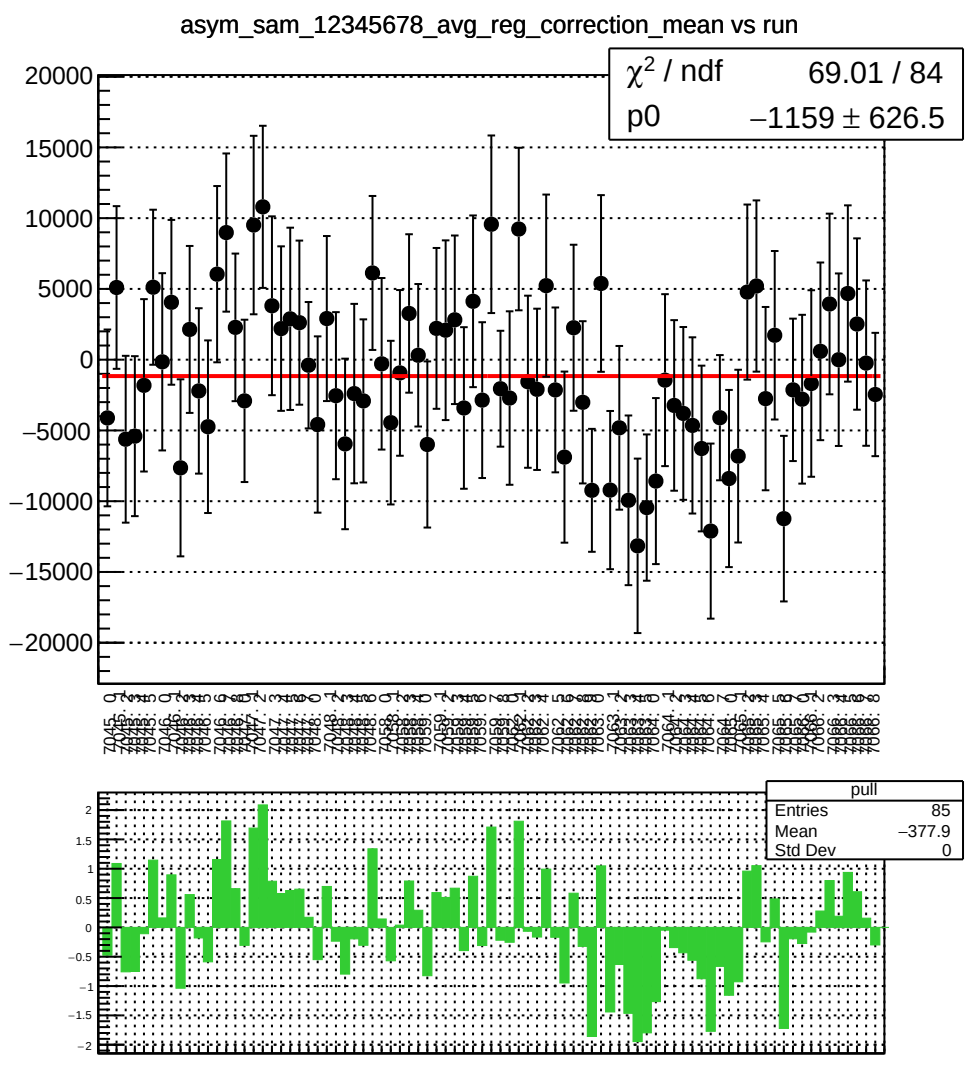

pull1D
Entries 85
Mean 0.08049
Std Dev 0.9924

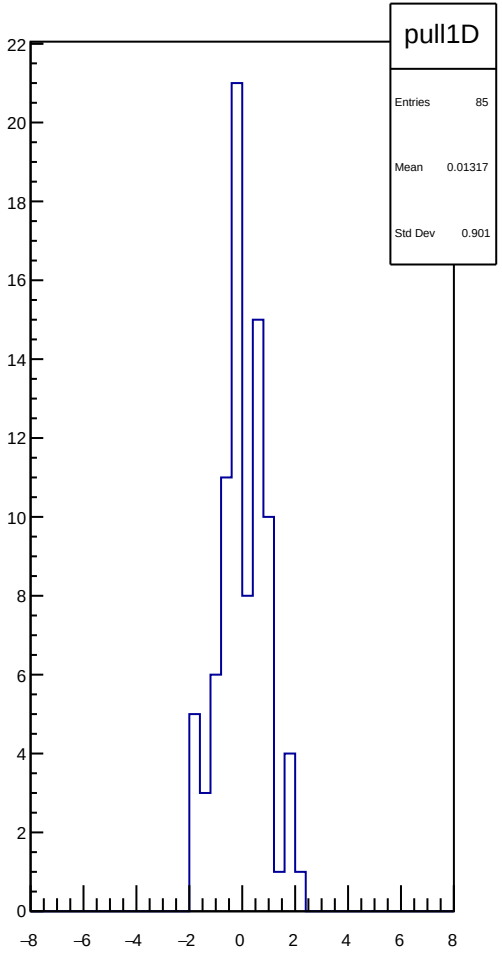

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.351e+05 / 84
p0 2.613e−12 ± 2.478e−15
24
22
20
18
16
14
12
10
8
6
4
2

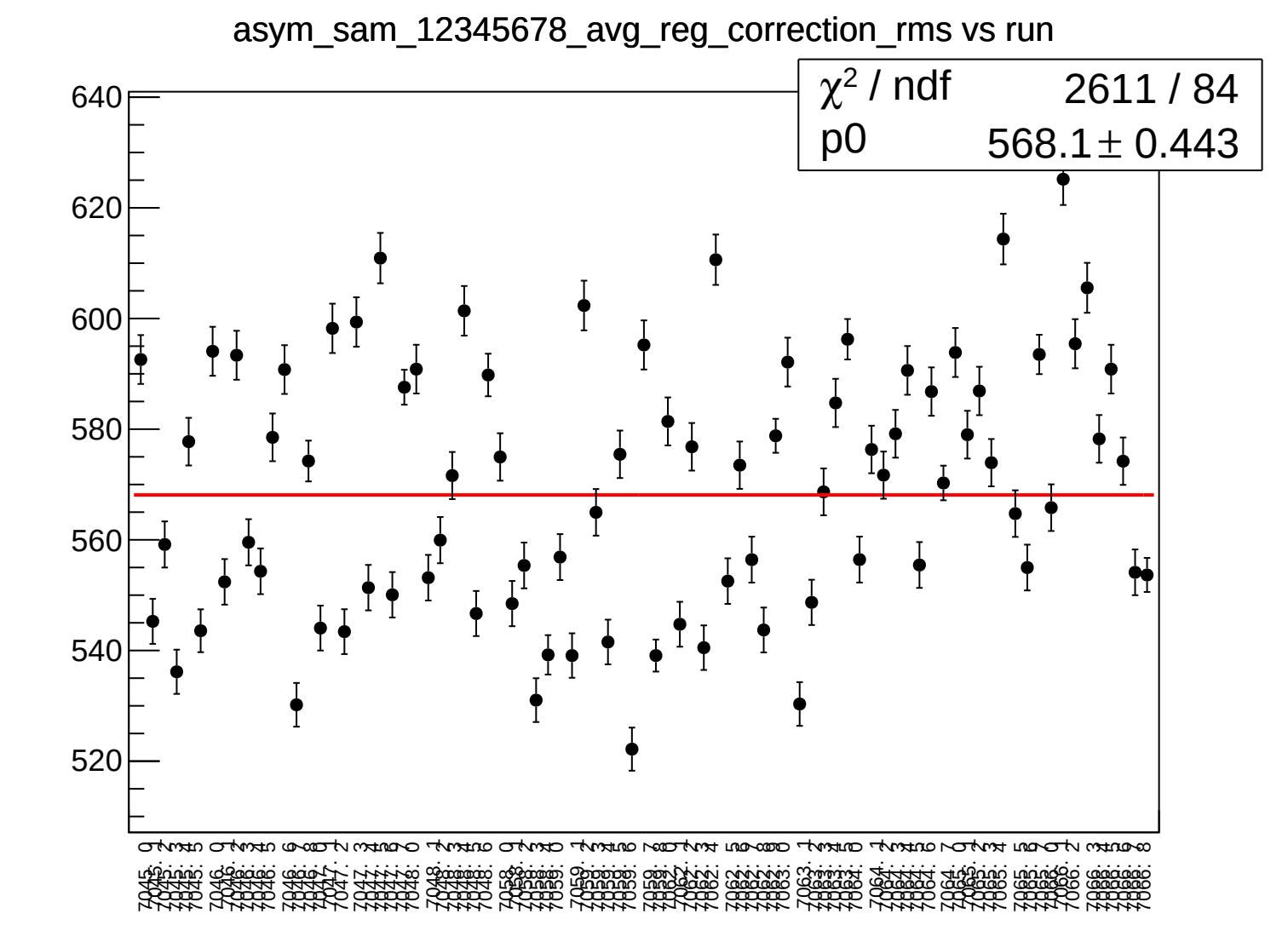

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.65 / 84
p0 −9.052 ± 66.75
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −308.8
Std Dev 0
2
1
0
−1
−2

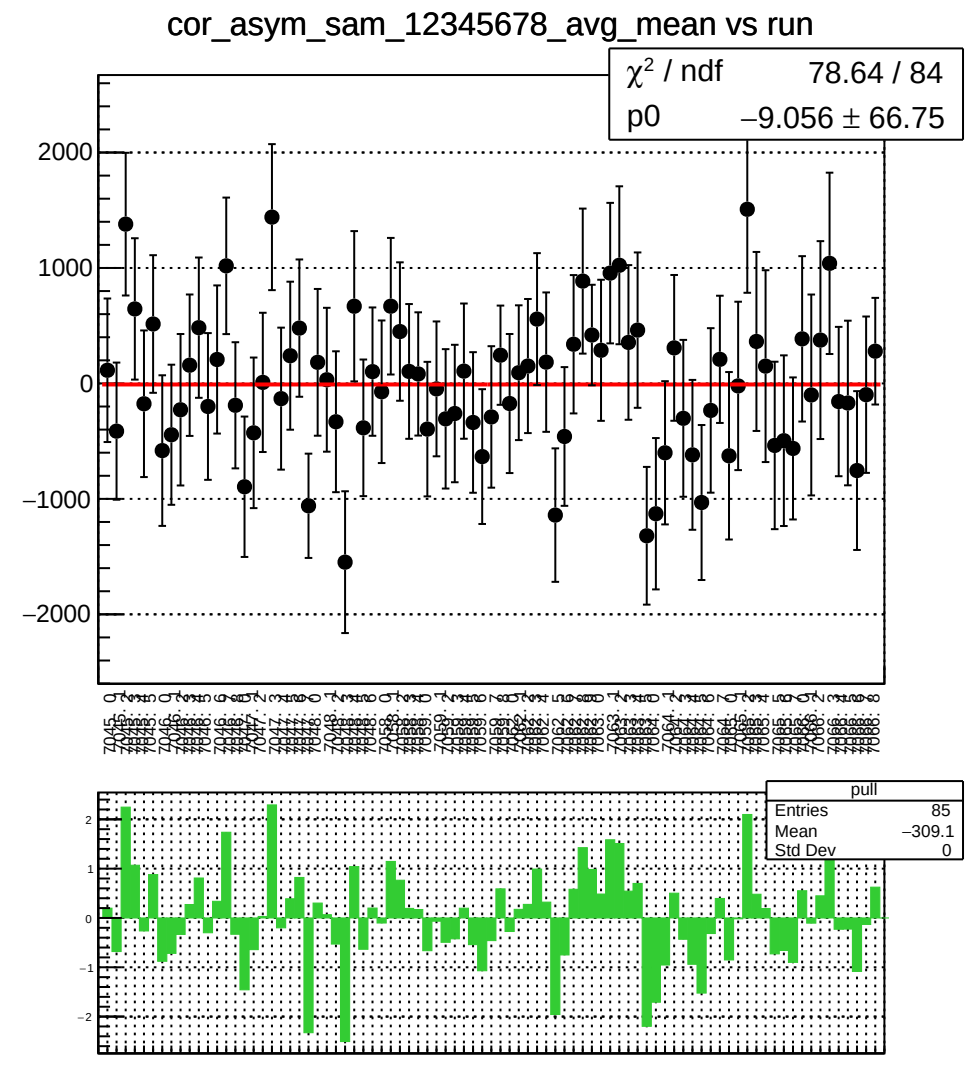

pull1D
Entries 85
Mean 0.004208
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

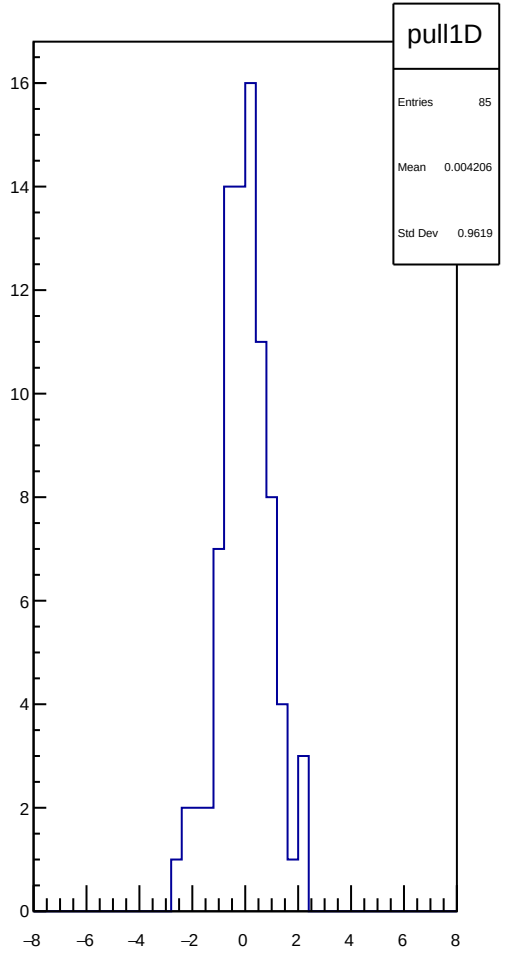

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.25e+04 / 84
p0 60.35 ± 0.0472
85
80
75
70
65
60
55

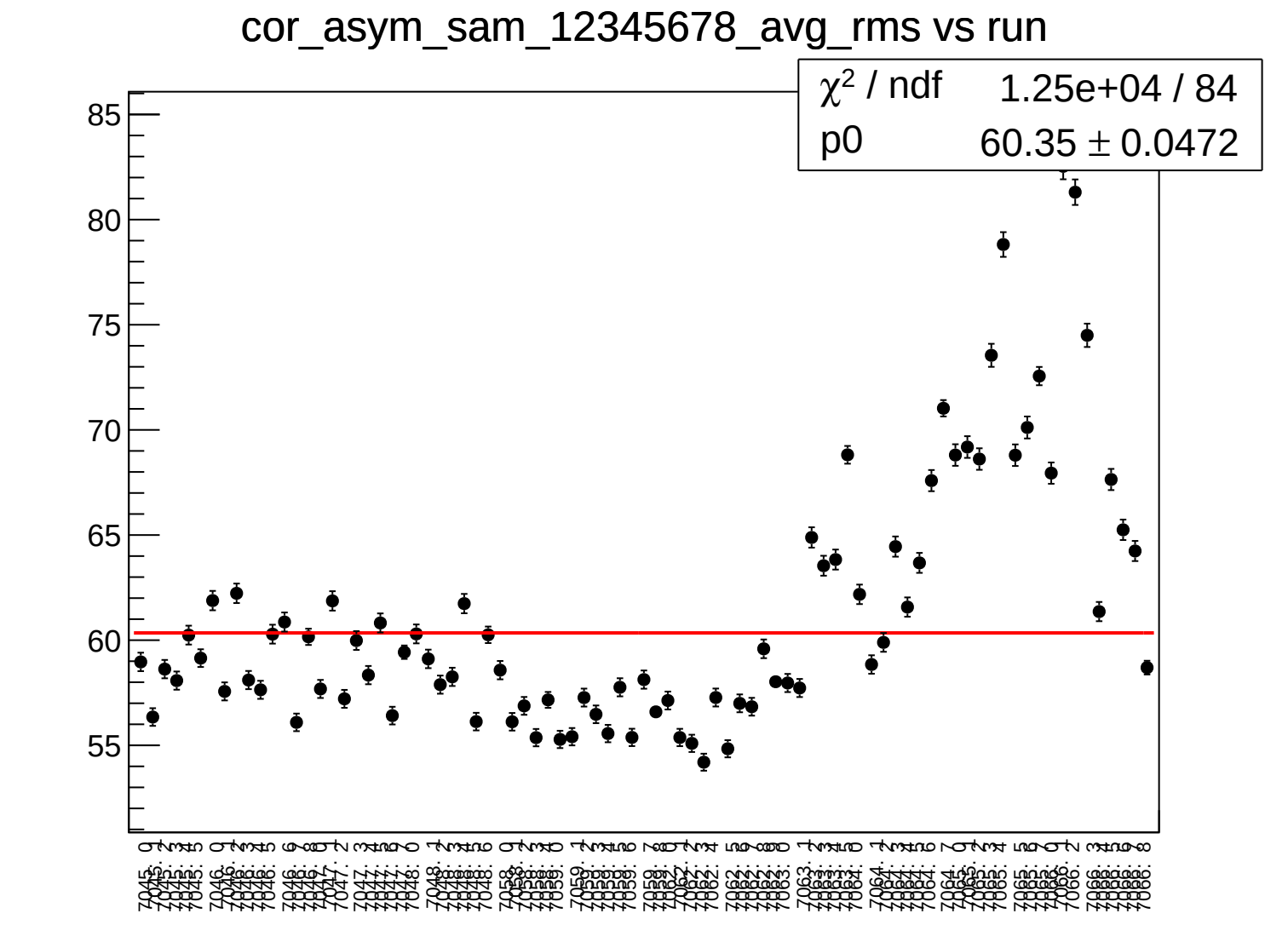

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 69.01 / 84
p0 −1159 ± 626.5
pull
Entries 85
Mean −377.9
Std Dev 0

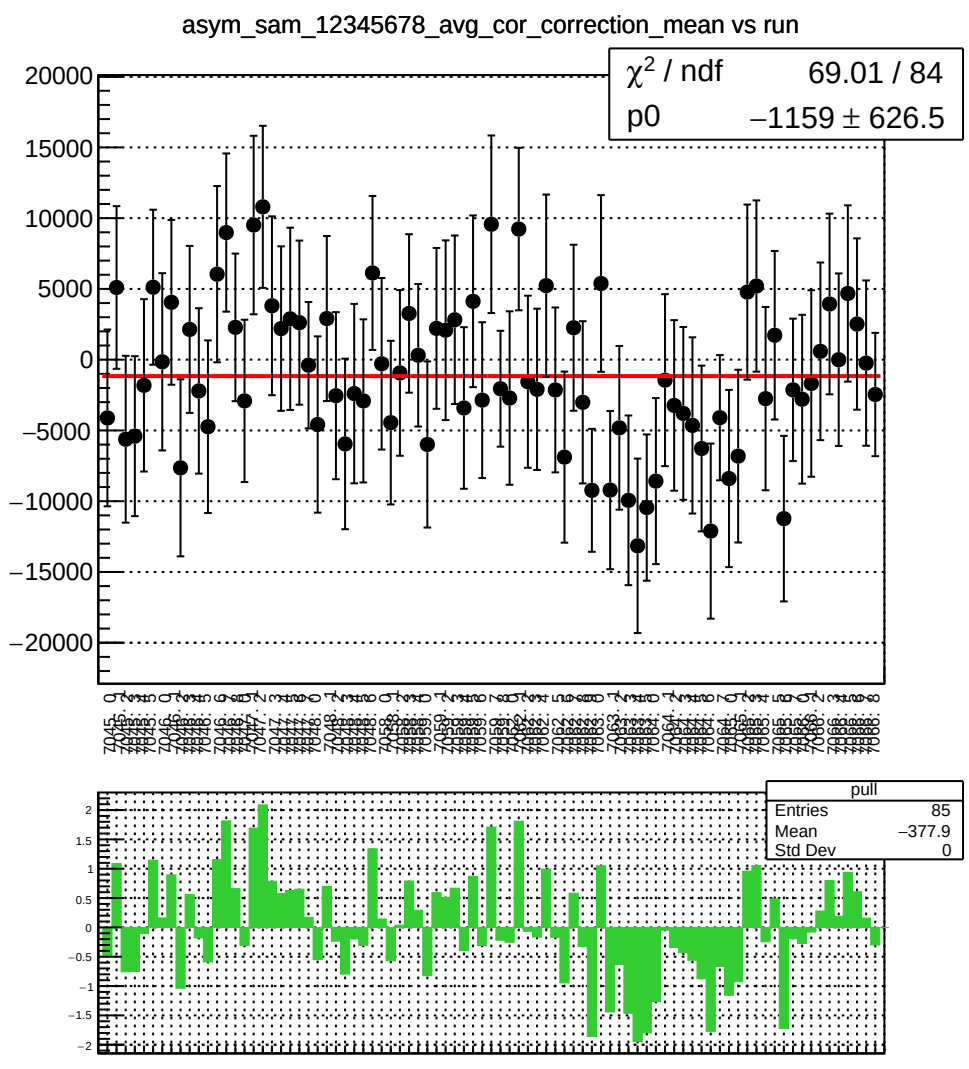

pull1D
Entries 85
Mean 0.01317
Std Dev 0.901

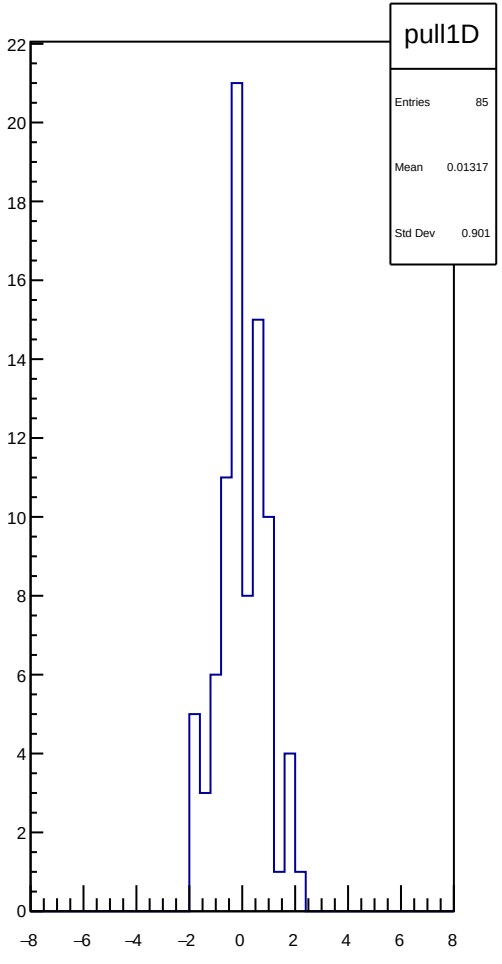

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2611 / 84
p0 568.1 ± 0.443
640
620
600
580
560
540
520

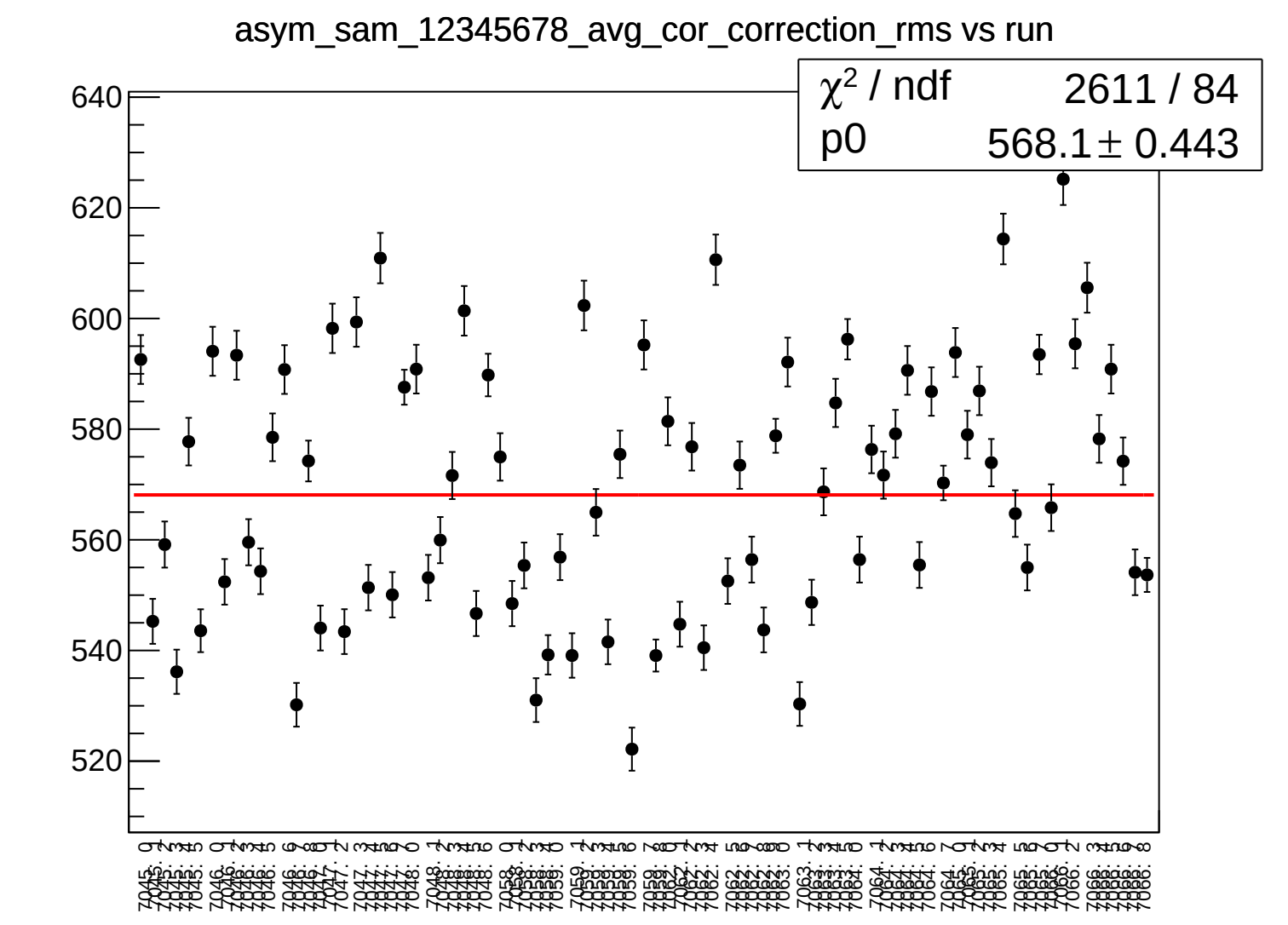

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.64 / 84
p0 −9.056 ± 66.75
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −309.1
Std Dev 0
2
1
0
−1
−2

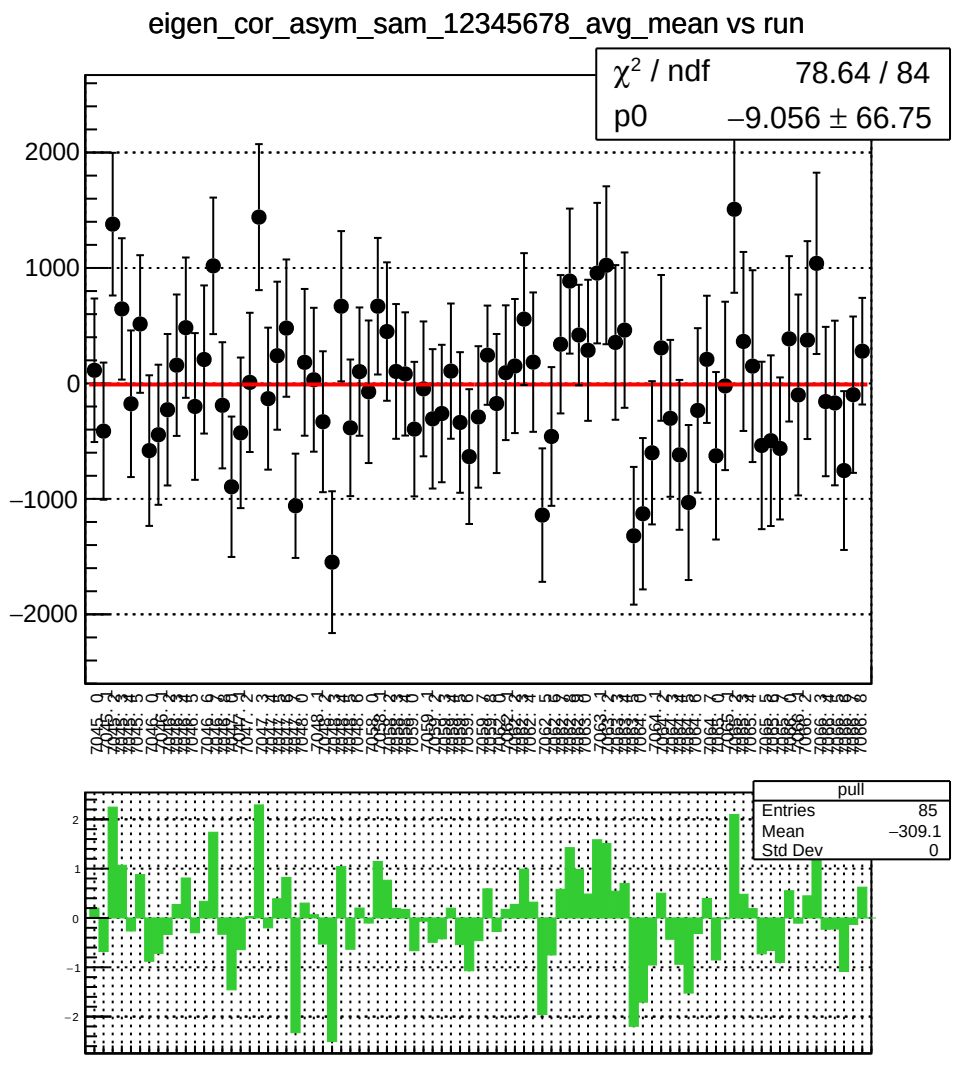

pull1D
Entries 85
Mean 0.004206
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

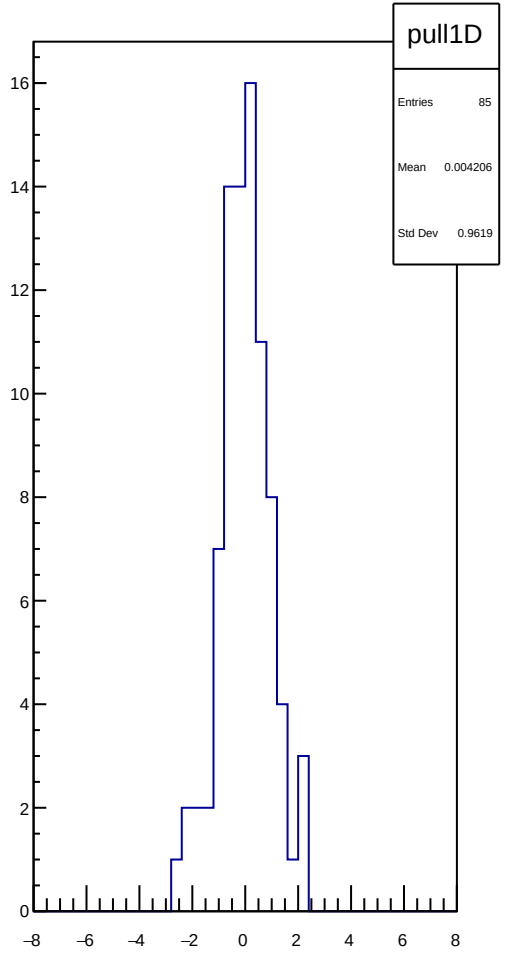

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.25e+04 / 84
p0 60.35 ± 0.0472
85
80
75
70
65
60
55

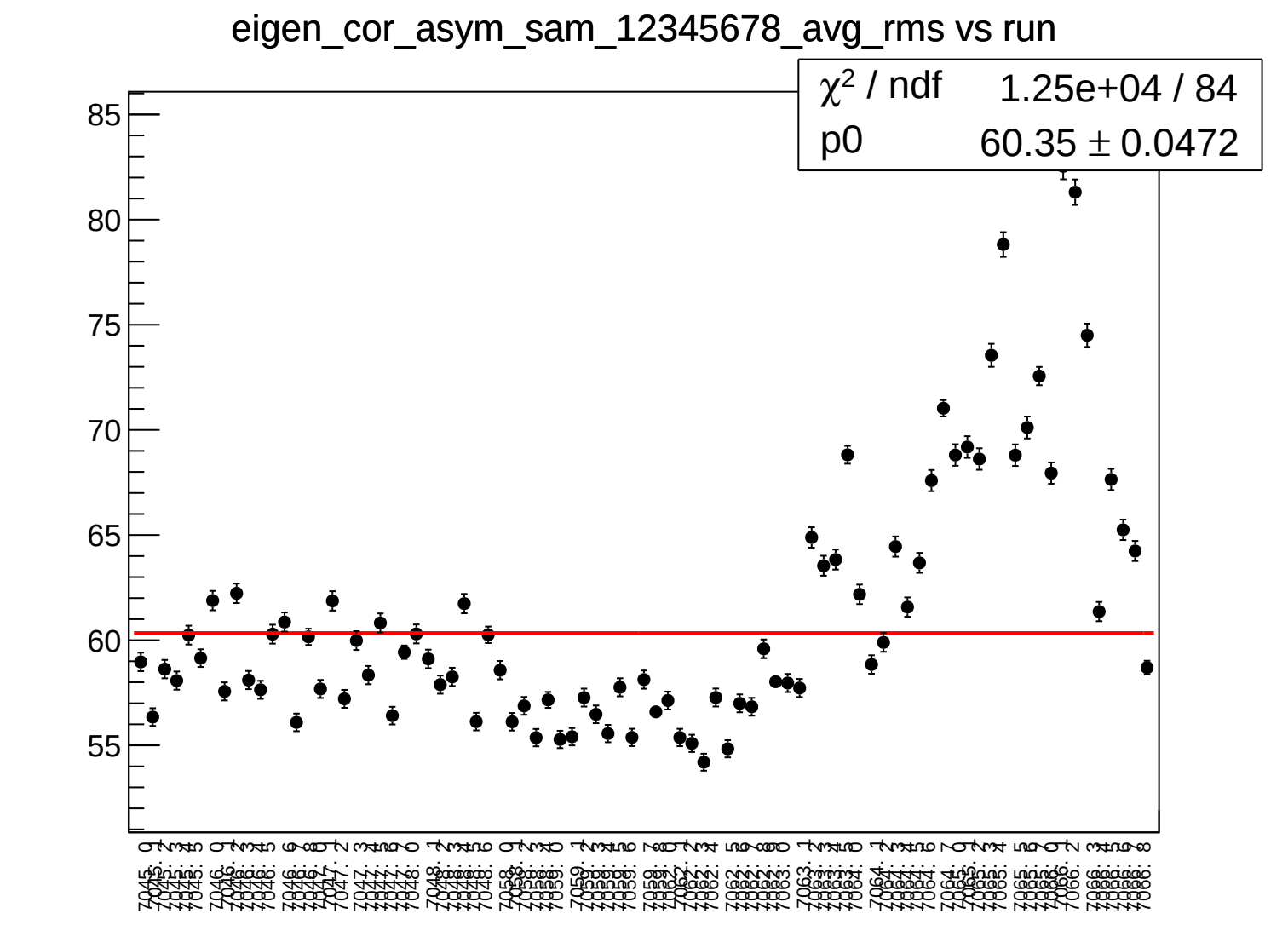

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 69.01 / 84
p0 −1159 ± 626.5
pull
Entries 85
Mean −377.9
Std Dev 0

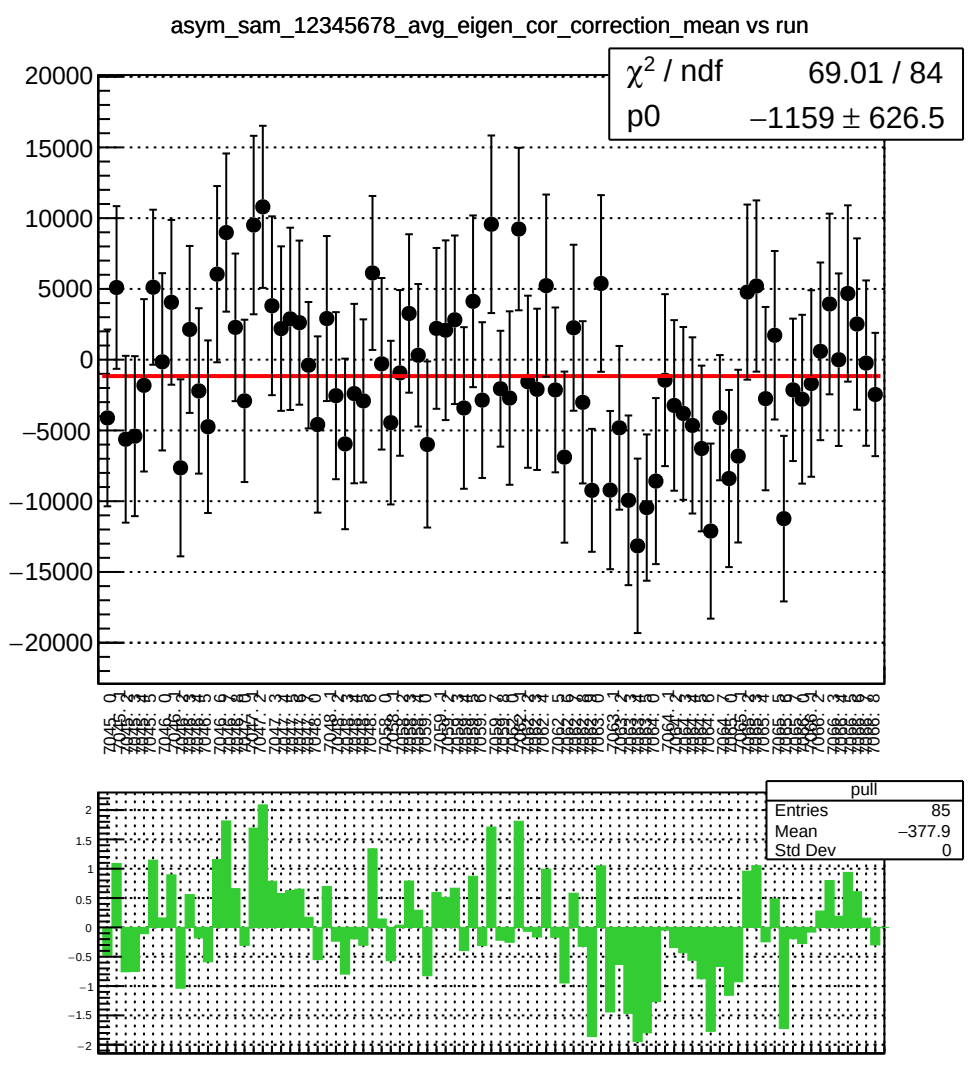

pull1D
Entries 85
Mean 0.01317
Std Dev 0.901

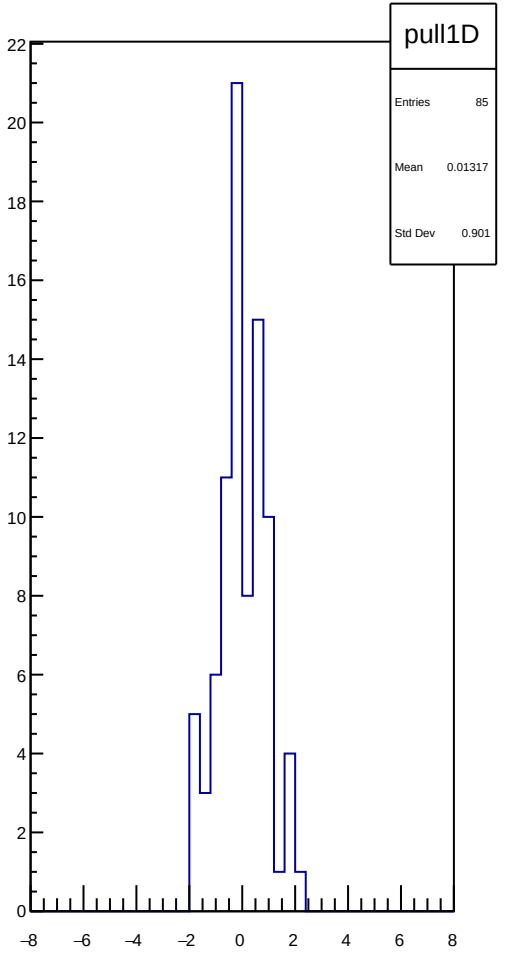

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 2611 / 84
p0 568.1 ± 0.443
640
620
600
580
560
540
520

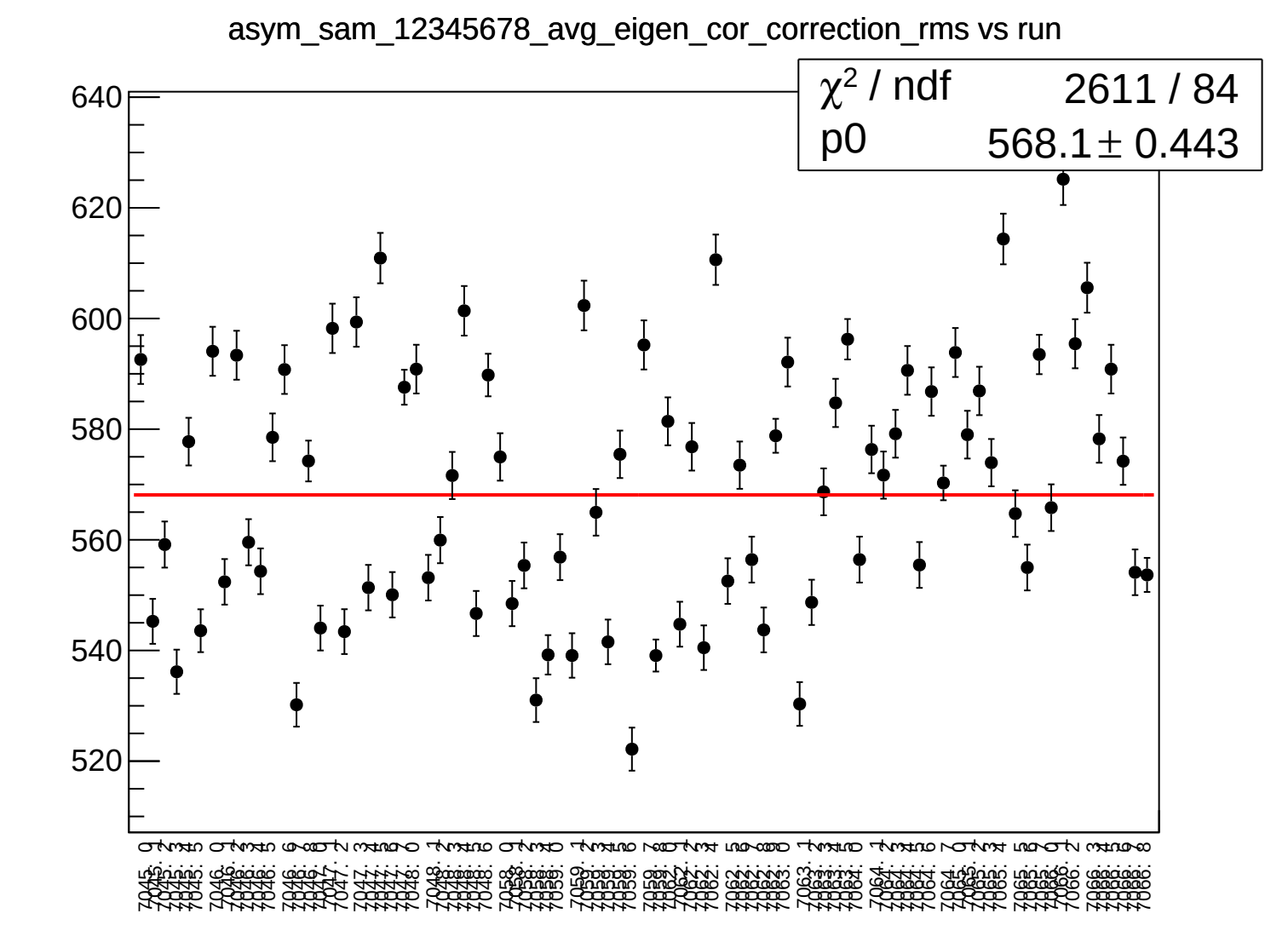

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.64 / 84
p0 −9.056 ± 66.75
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −309.1
Std Dev 0
2
1
0
−1
−2

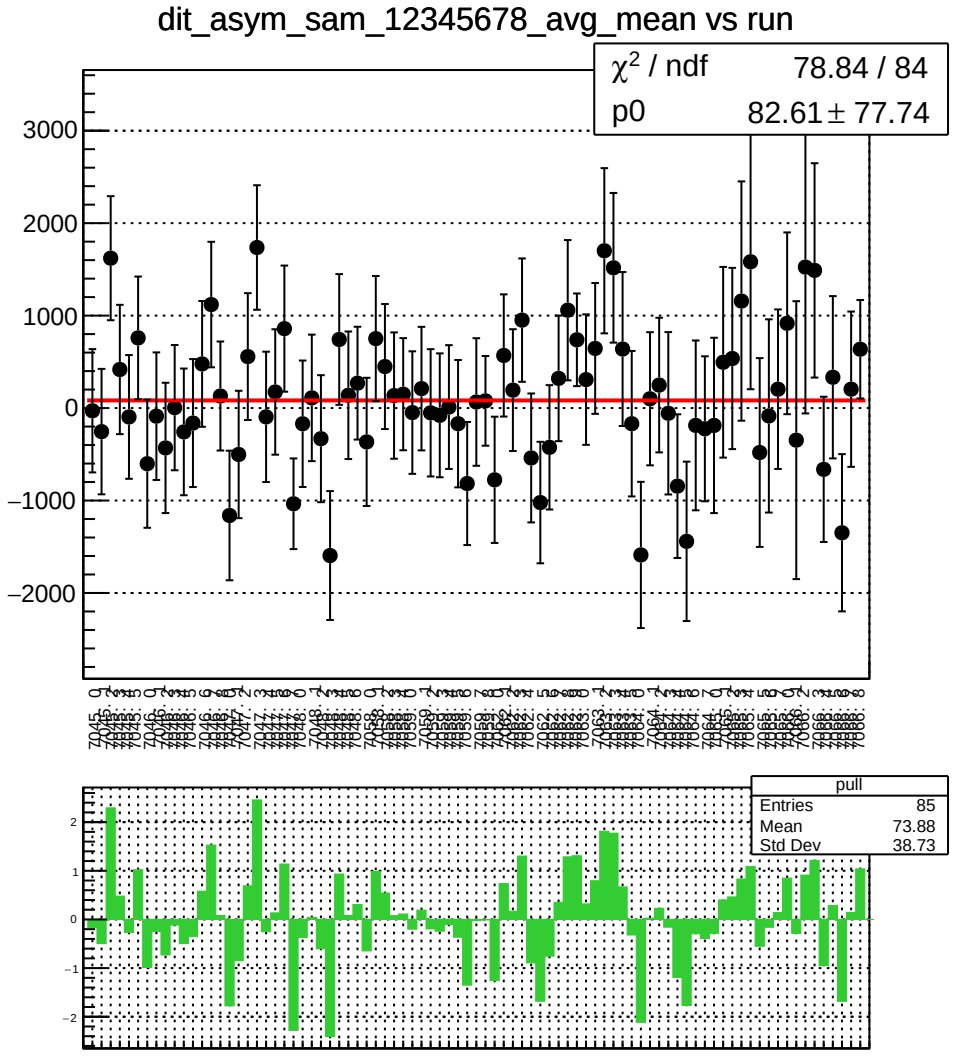

pull1D
Entries 85
Mean 0.004206
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

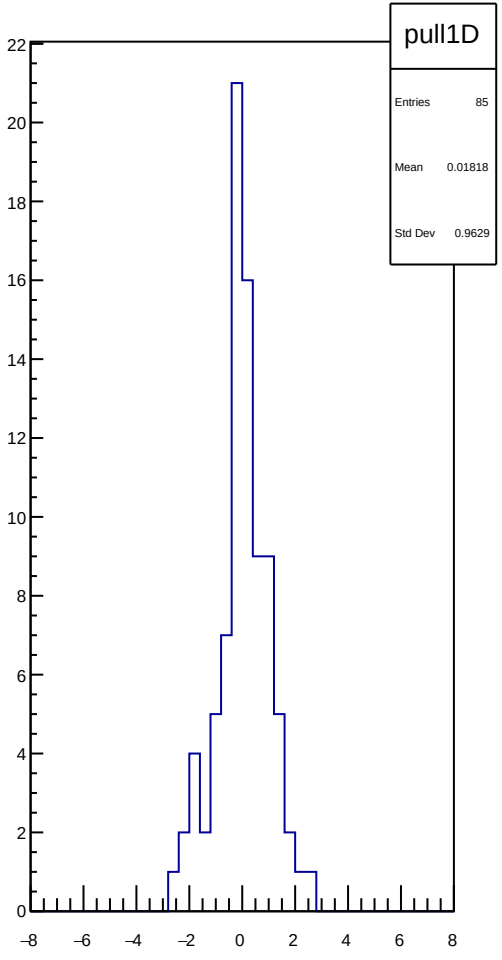

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.25e+04 / 84
p0 60.35 ± 0.0472
85
80
75
70
65
60
55

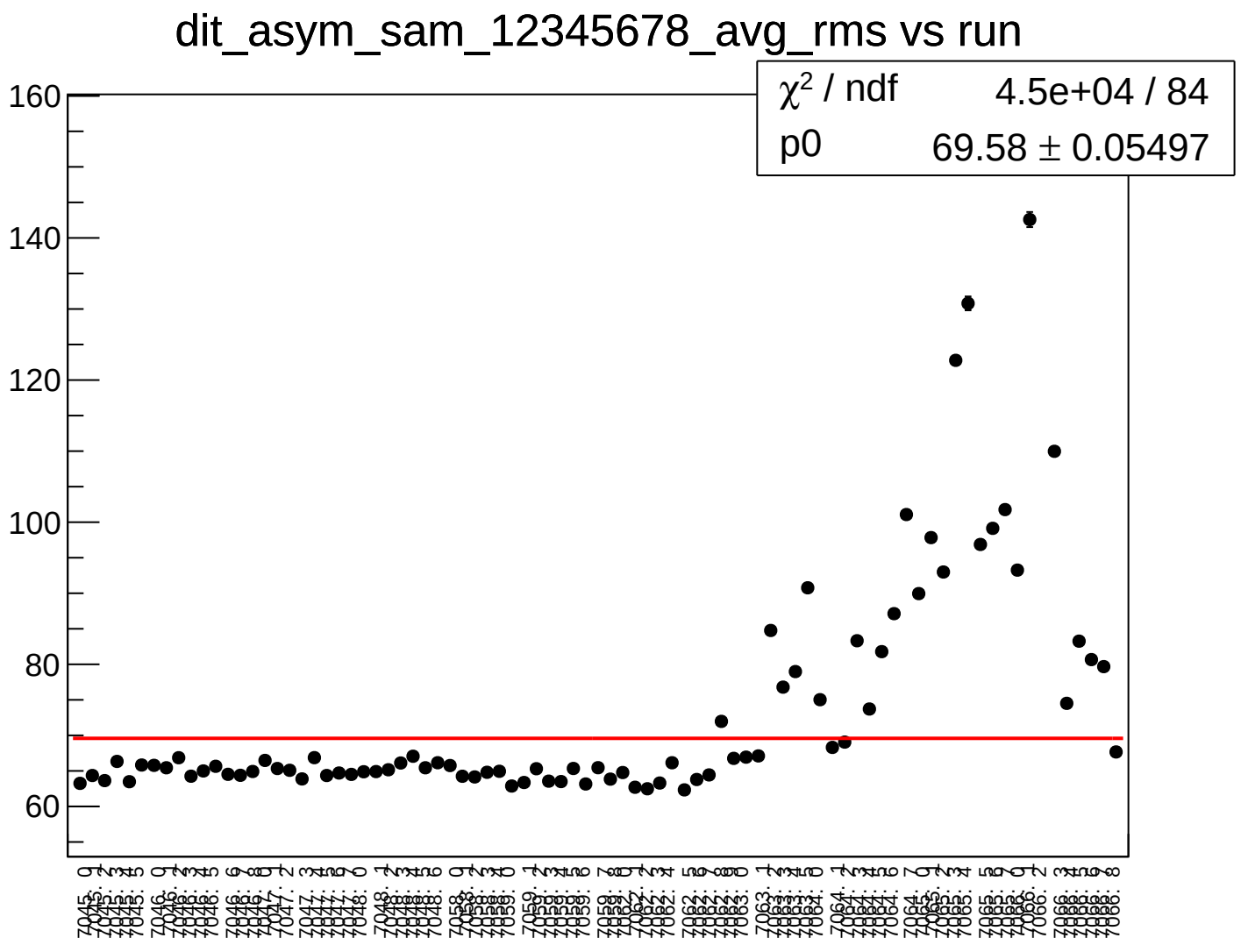

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.01 / 84
p0 −1159 ± 626.5
pull
Entries 85
Mean −377.9
Std Dev 0

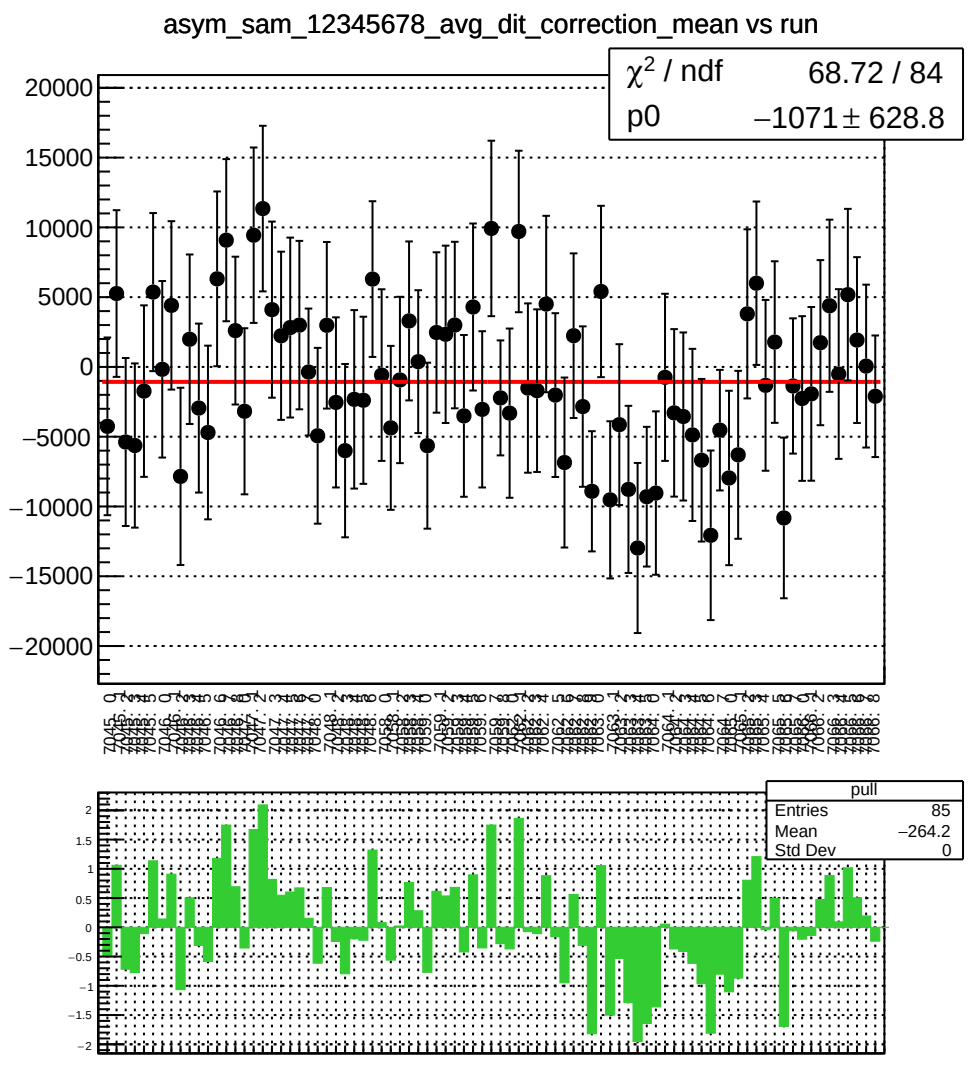

pull1D
Entries 85
Mean 0.01317
Std Dev 0.901

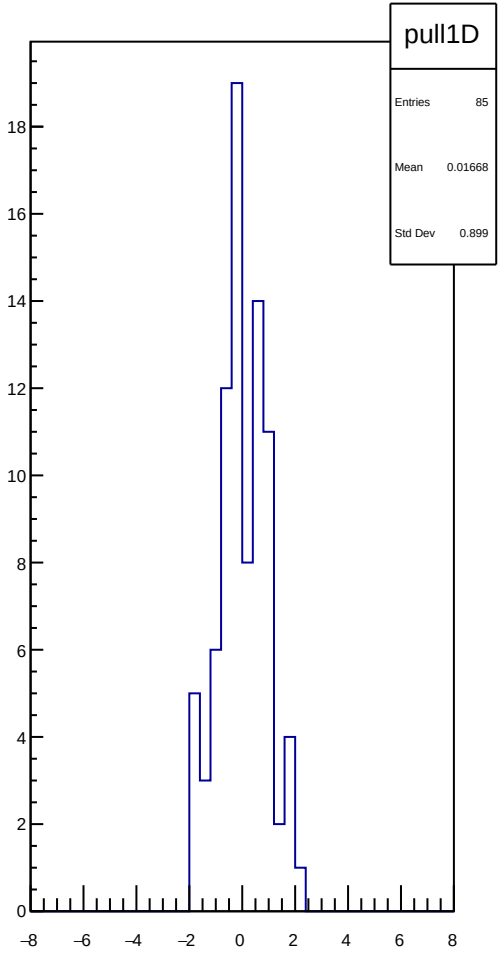

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2611 / 84
p0 568.1 ± 0.443
640
620
600
580
560
540
520

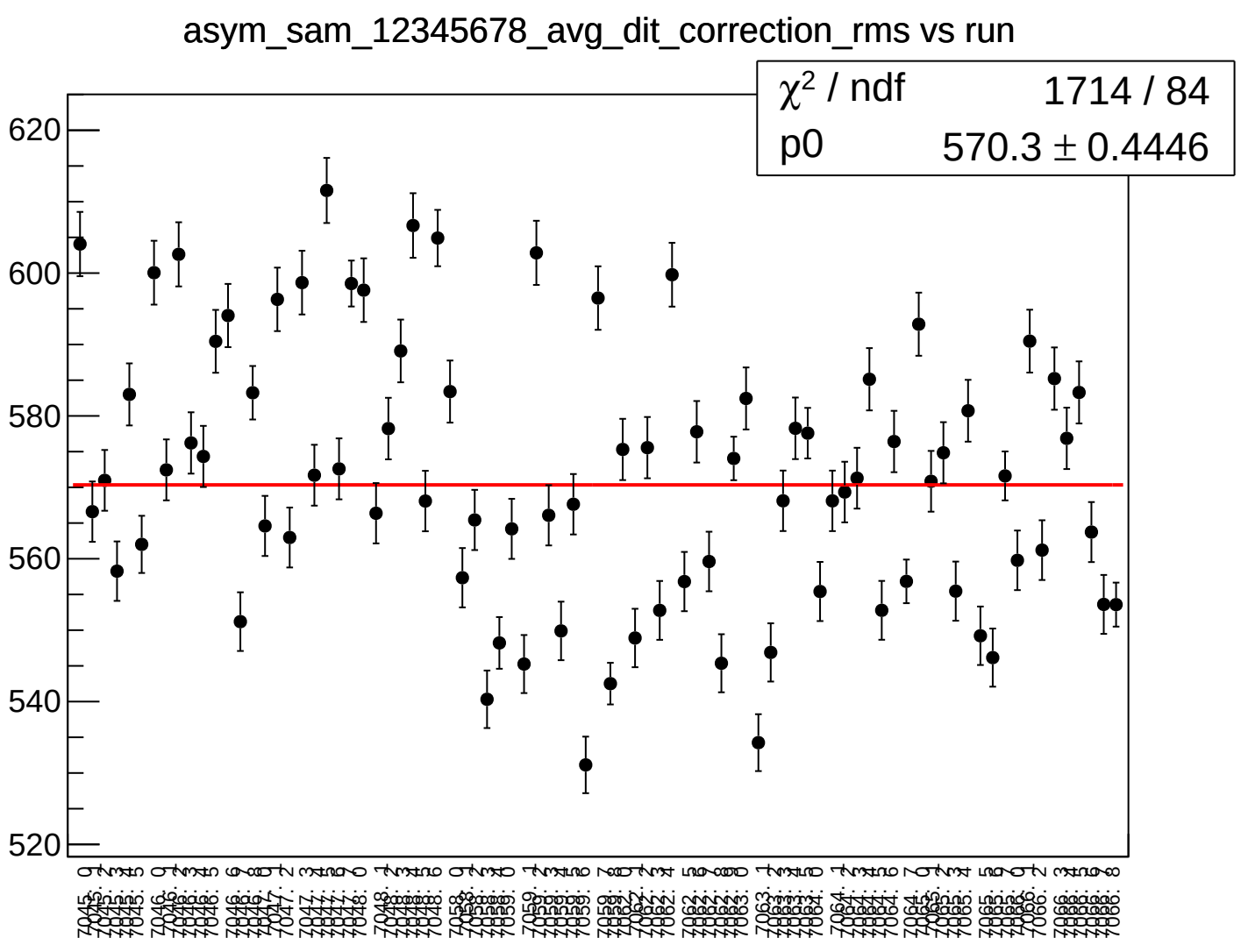

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.84 / 84
p0 82.61 ± 77.74
pull
Entries 85
Mean 73.88
Std Dev 38.73

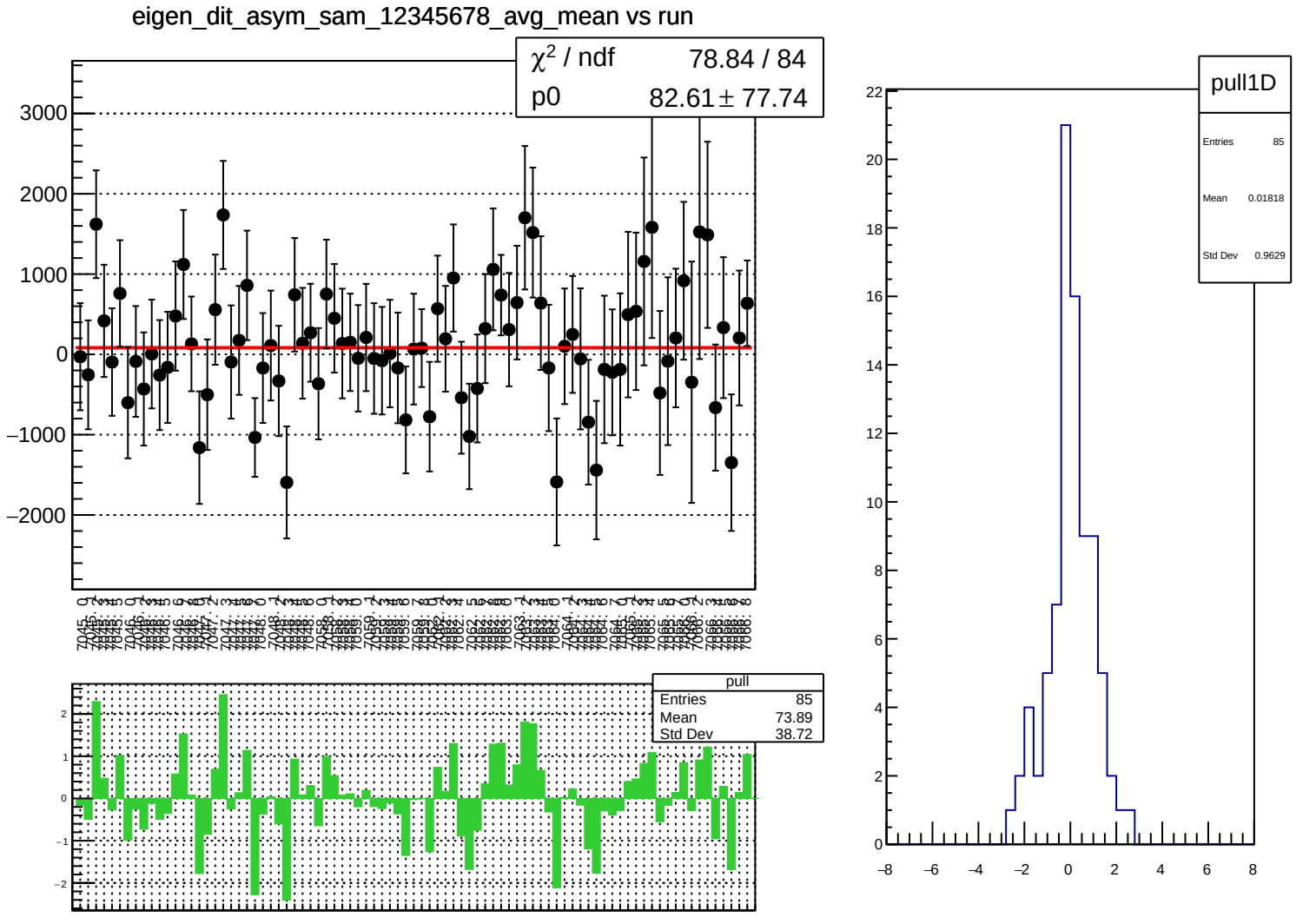

pull1D
Entries 85
Mean 0.01818
Std Dev 0.9629

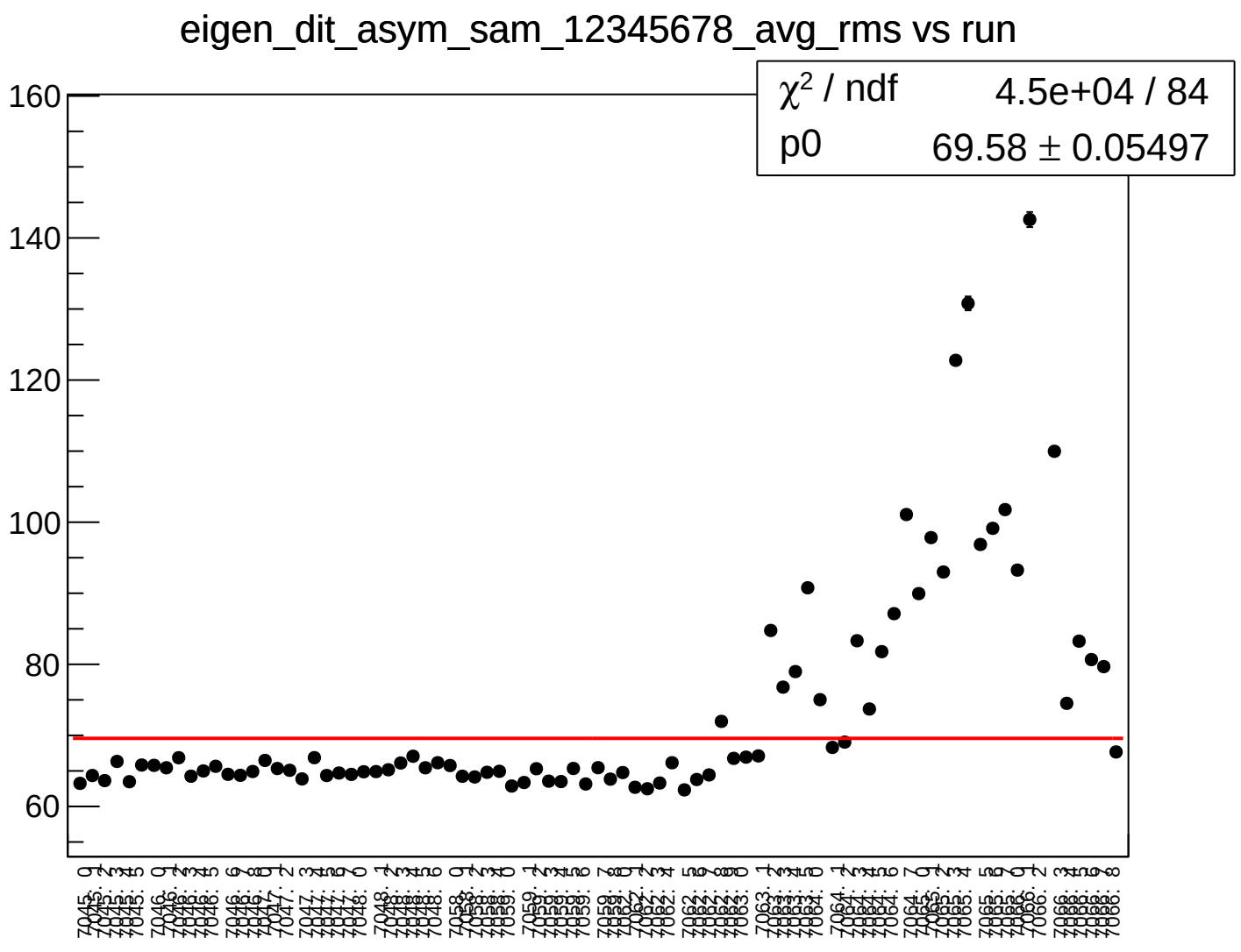

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.5e+04 / 84
p0 69.58 ± 0.05497
160
140
120
100
80
60

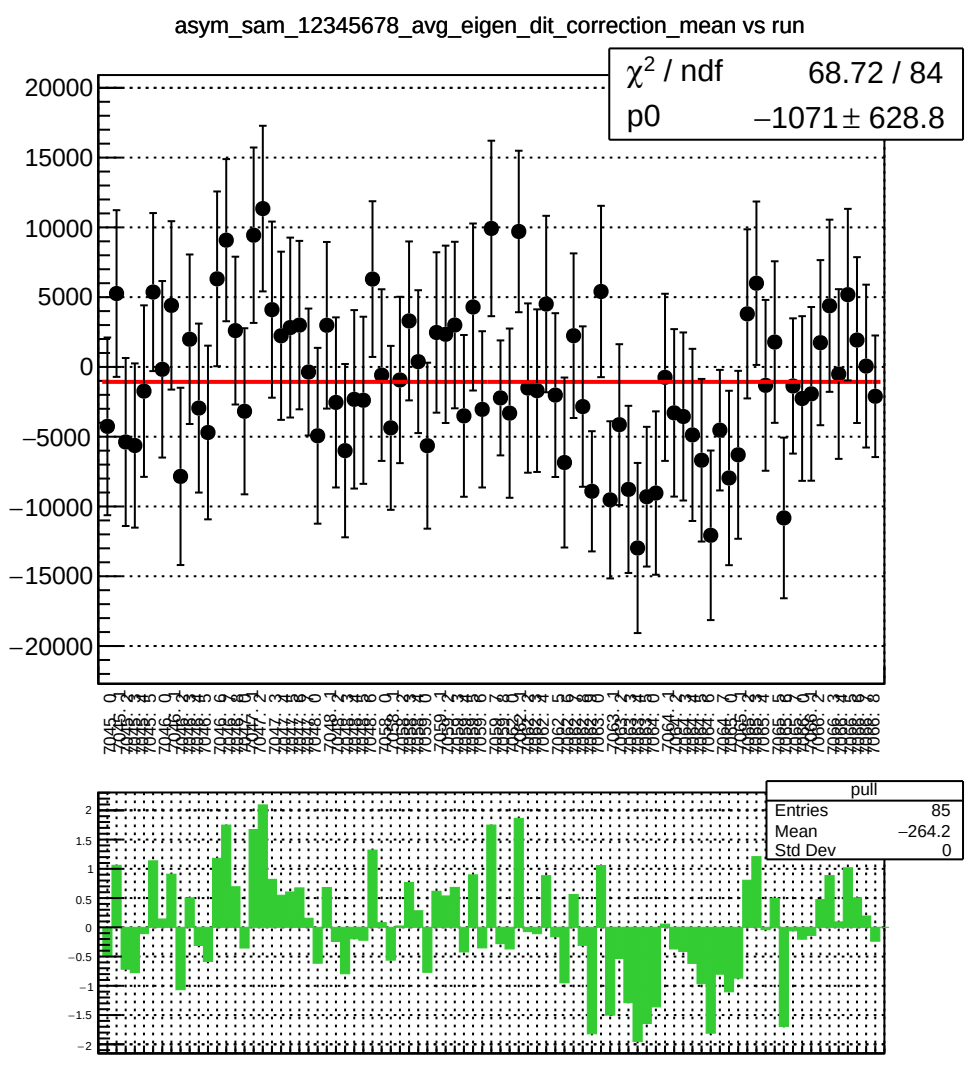

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 68.72 / 84
p0 −1071 ± 628.8
pull
Entries 85
Mean −264.2
Std Dev 0

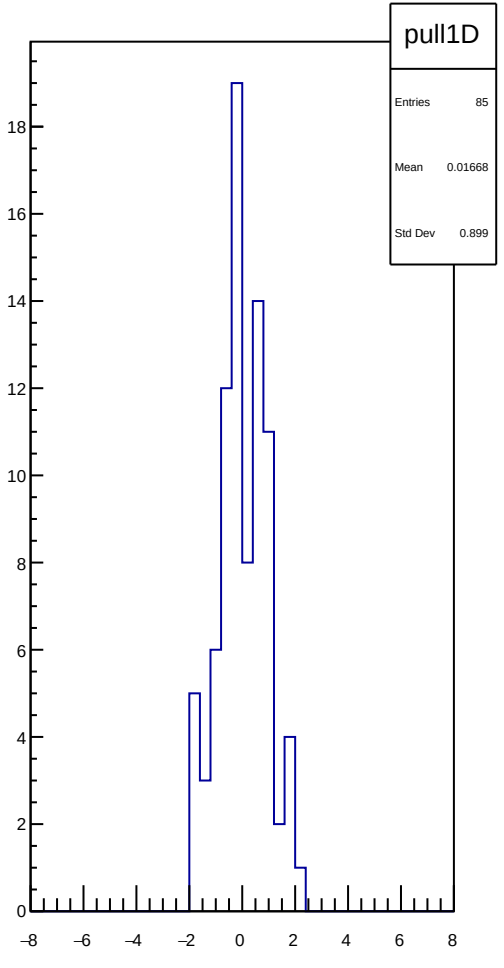

pull1D
Entries 85
Mean 0.01668
Std Dev 0.899

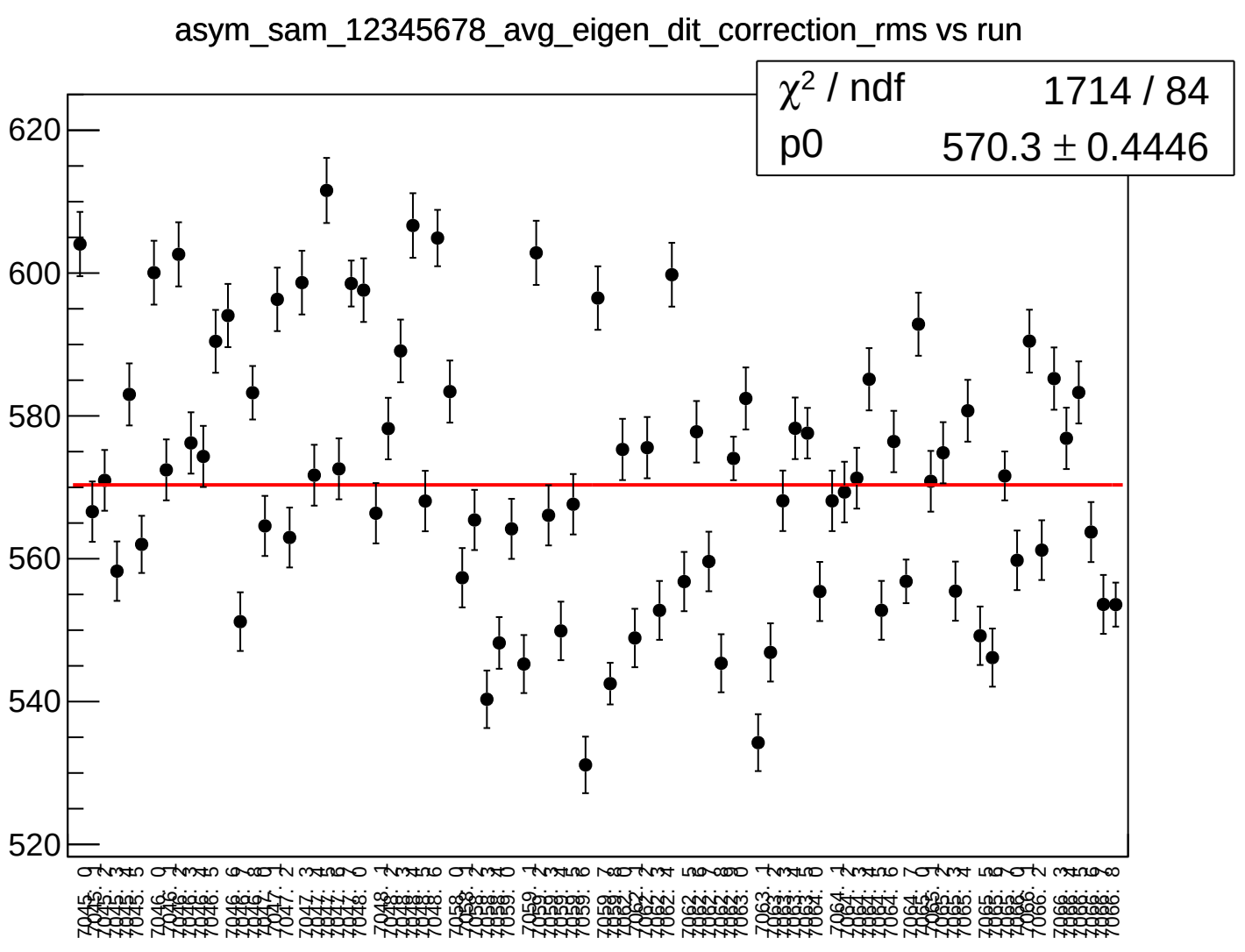

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1714 / 84
p0 570.3 ± 0.4446
620
600
580
560
540
520

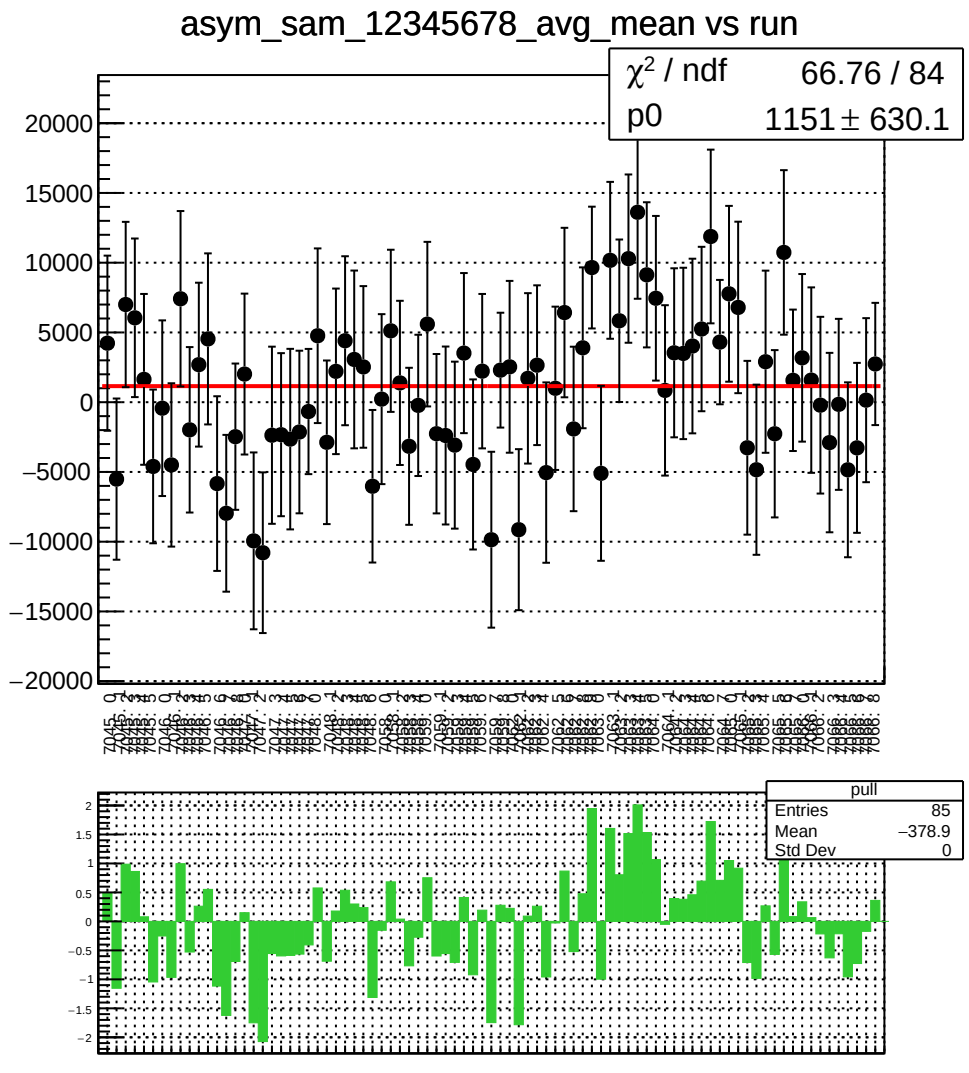

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.84 / 84
p0 82.61 ± 77.74
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 73.89
Std Dev 38.72
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01818
Std Dev 0.9629
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

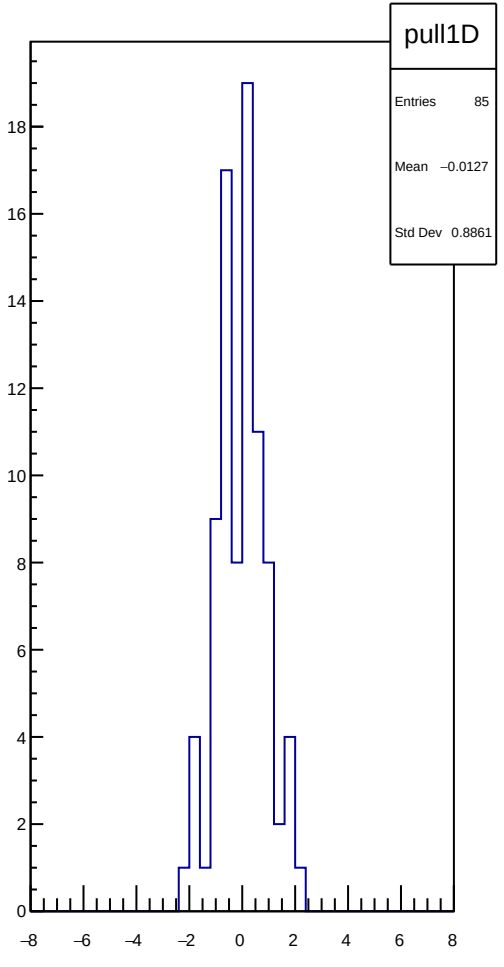

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.5e+04 / 84
p0 69.58 ± 0.05497
160
140
120
100
80
60

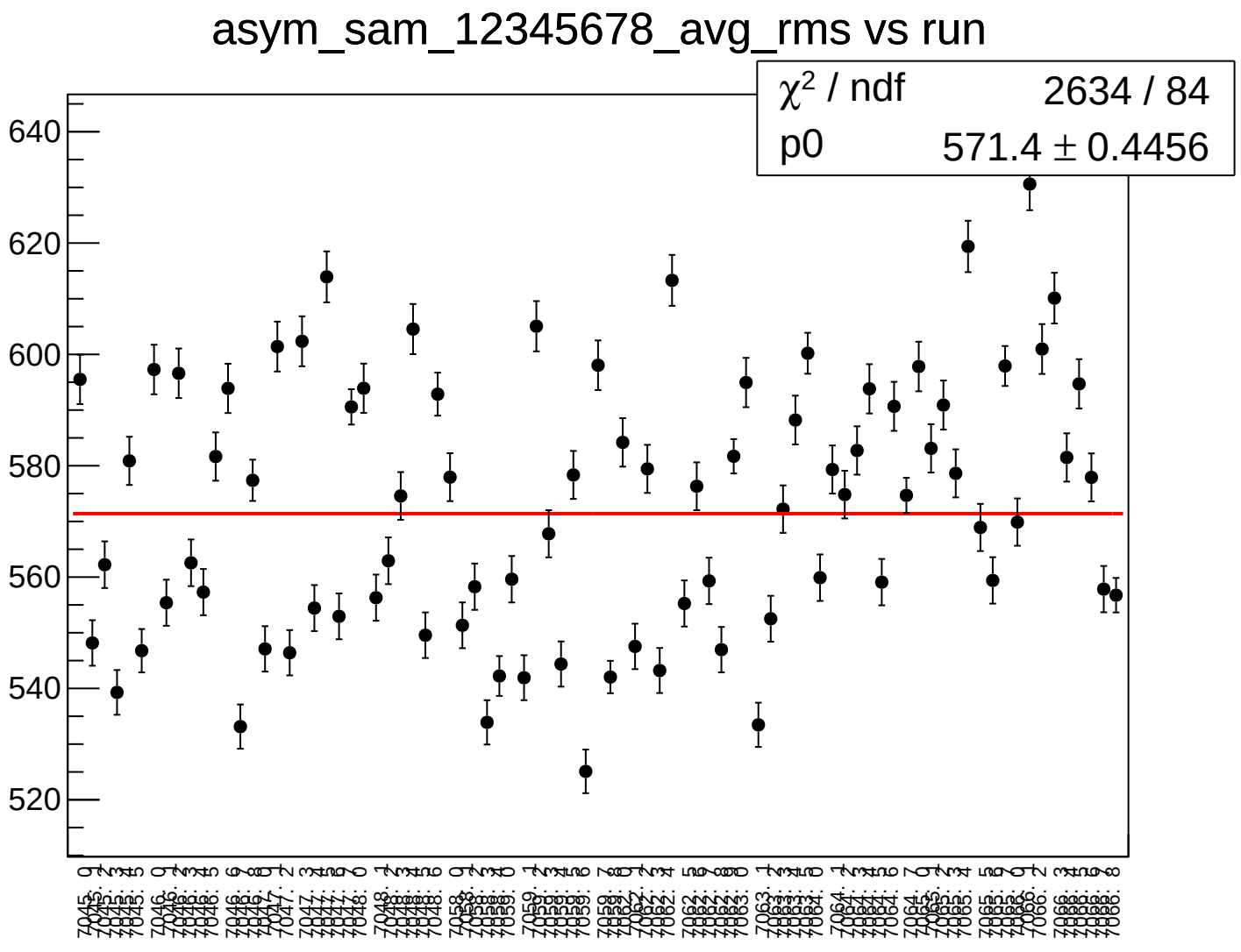

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.72 / 84
p0 −1071 ± 628.8
pull
Entries 85
Mean −264.2
Std Dev 0

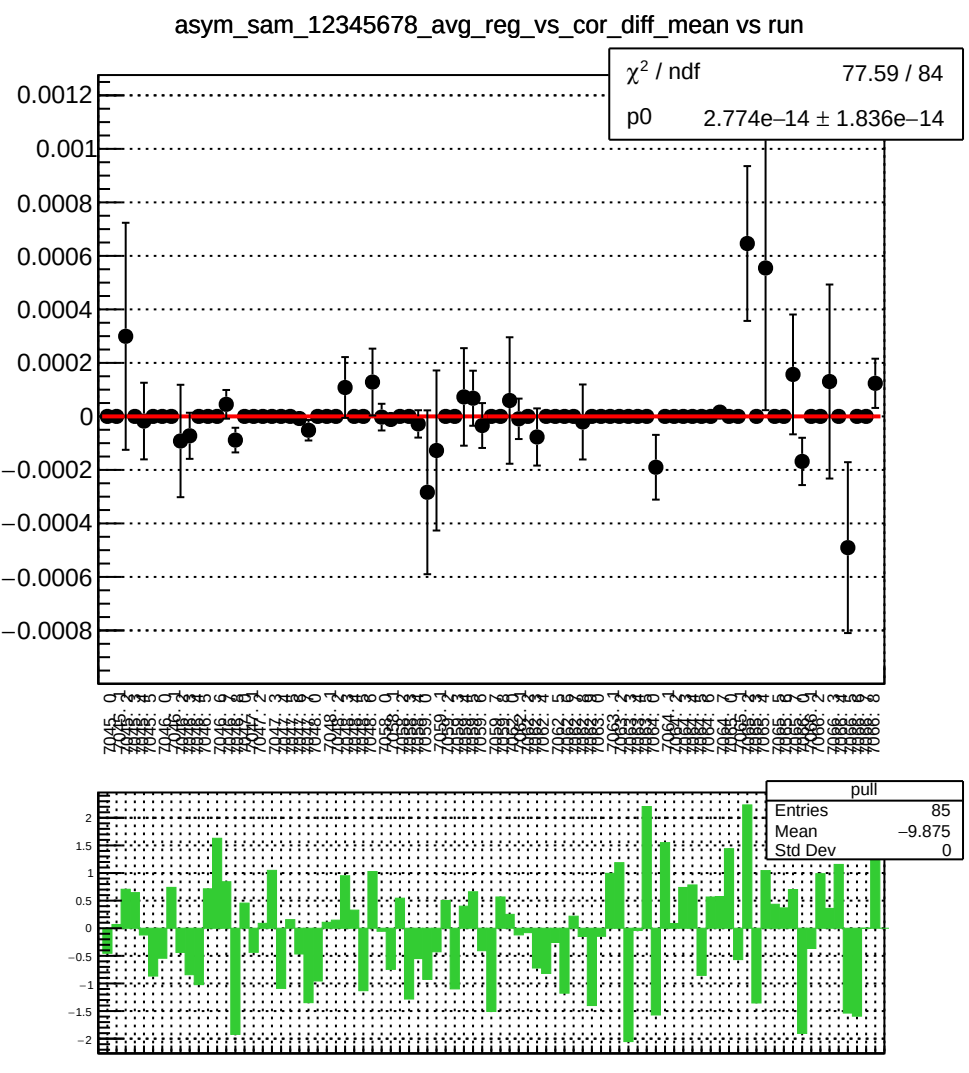

pull1D
Entries 85
Mean 0.01668
Std Dev 0.899

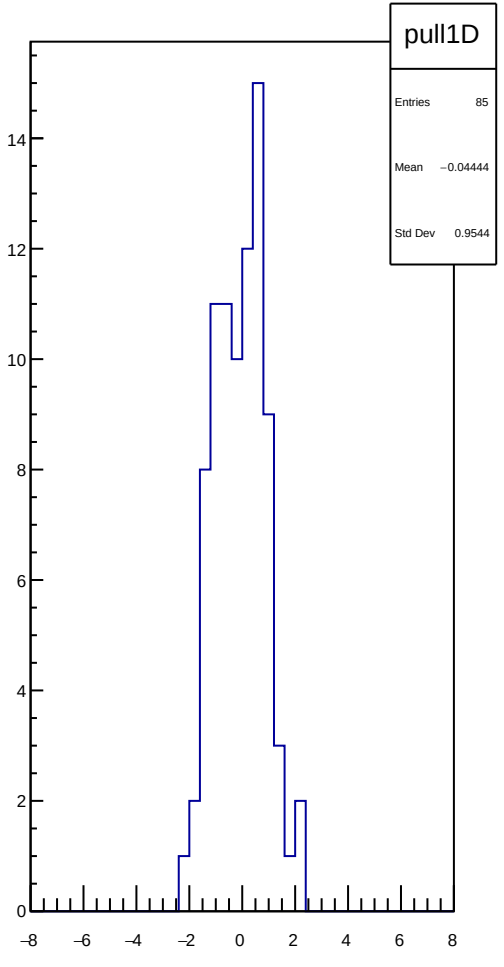

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1714 / 84
p0 570.3 ± 0.4446
620
600
580
560
540
520

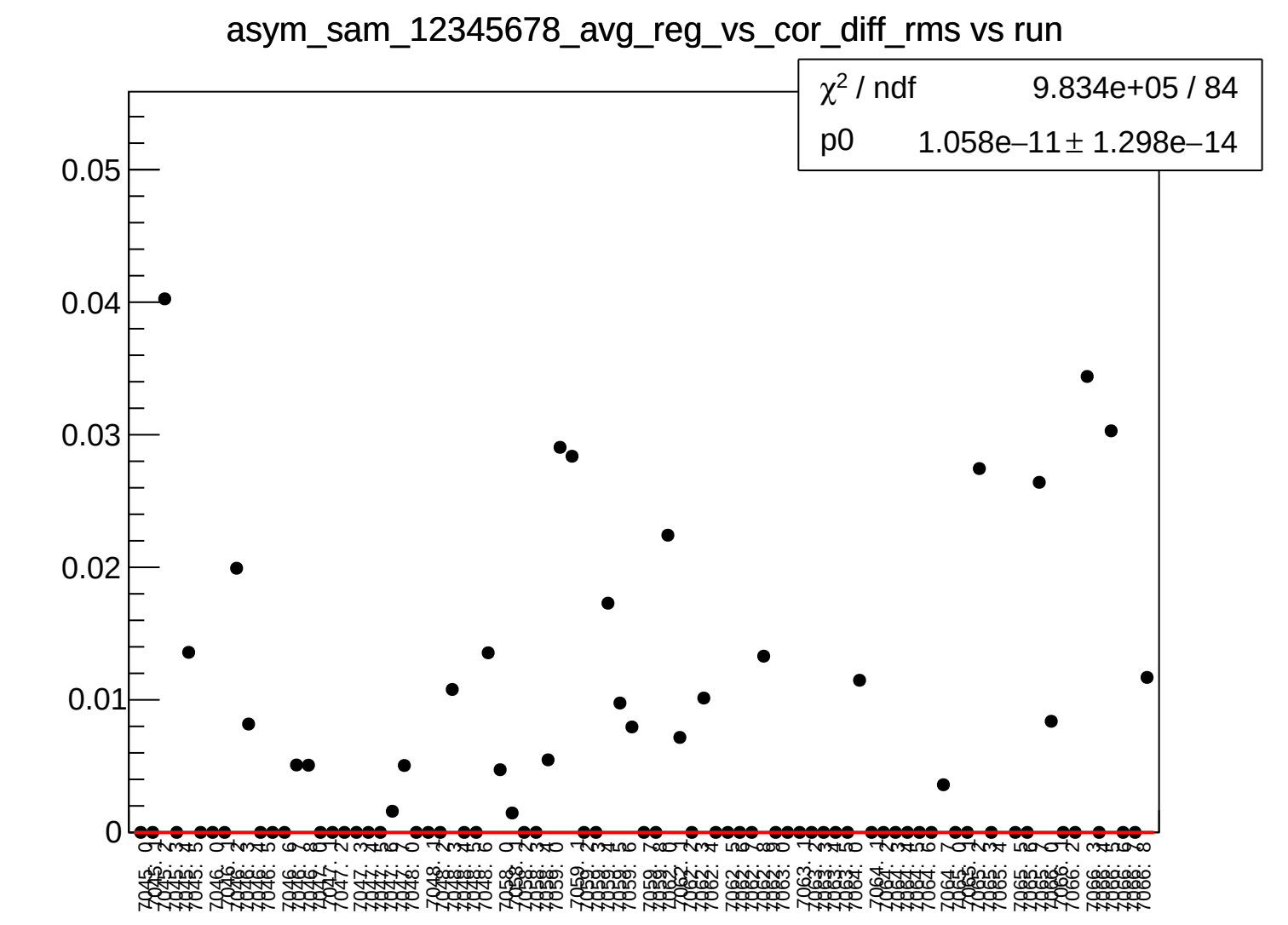

asym_sam_12345678_avg_mean vs run
χ² / ndf 66.76 / 84
p0 1151 ± 630.1
pull
Entries 85
Mean −378.9
Std Dev 0

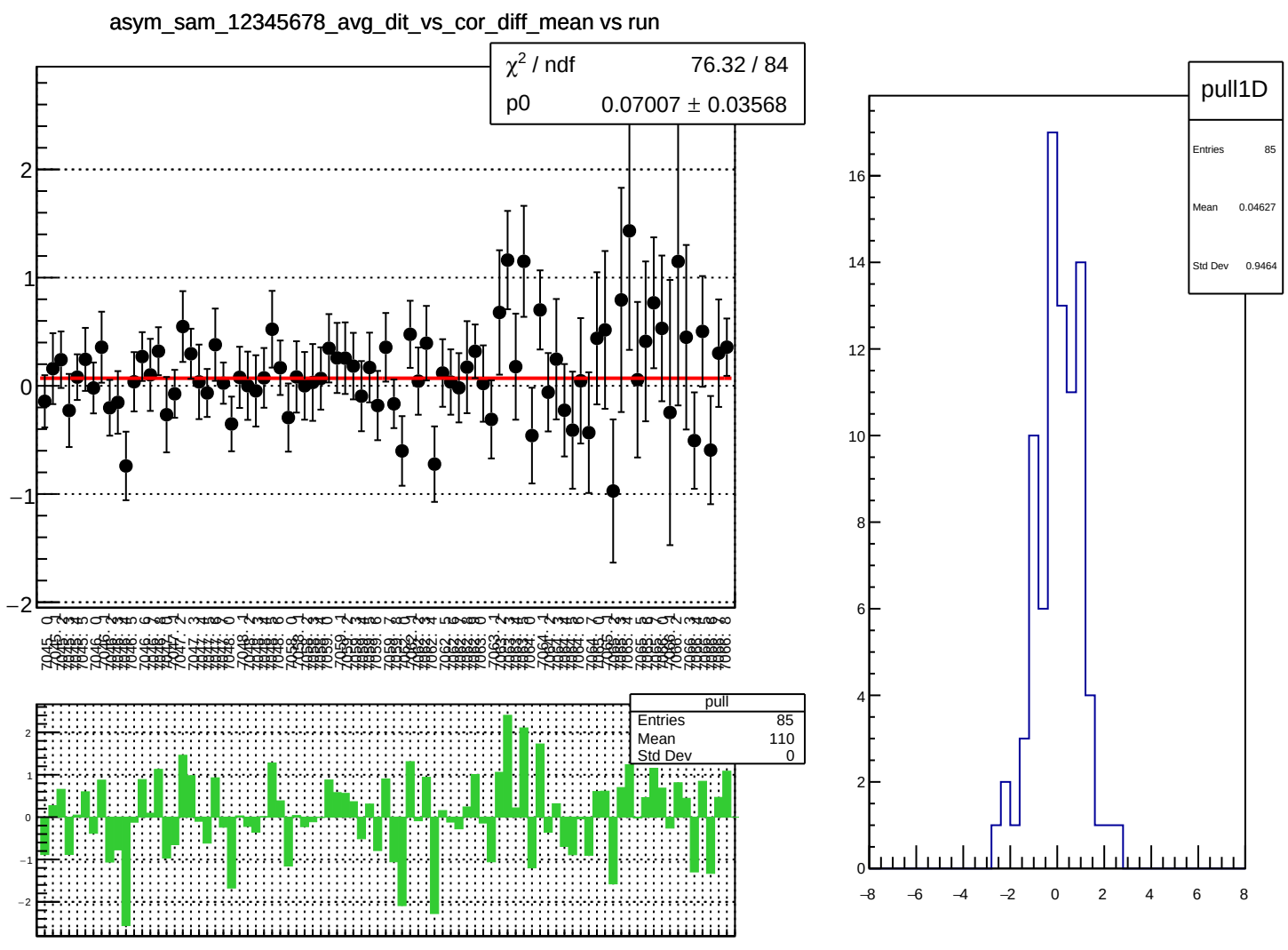

pull1D
Entries 85
Mean −0.0127
Std Dev 0.8861

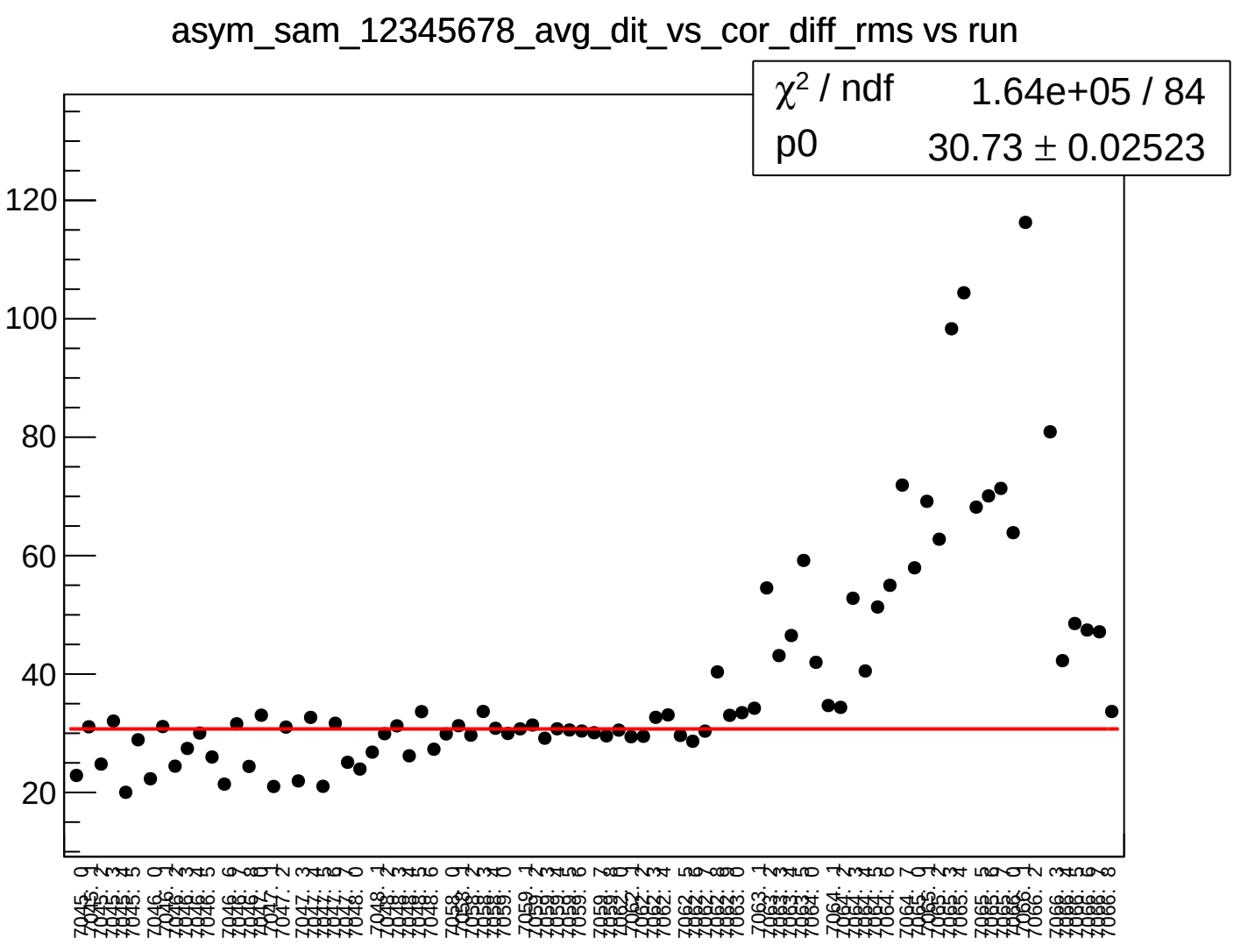

asym_sam_12345678_avg_rms vs run
χ² / ndf 2634 / 84
p0 571.4 ± 0.4456
640
620
600
580
560
540
520

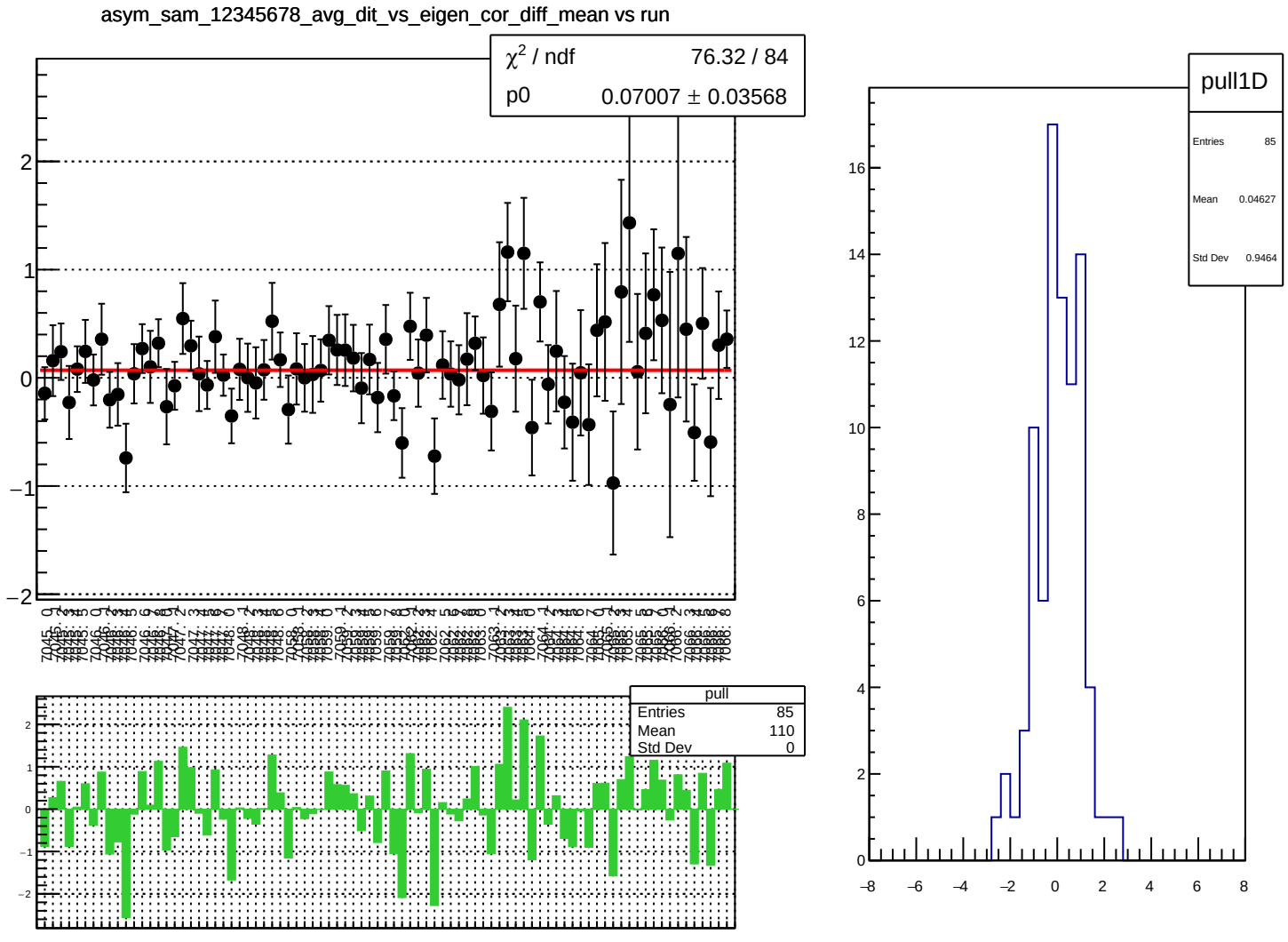

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.59 / 84
p0 2.774e−14 ± 1.836e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 85
Mean −9.875
Std Dev 0

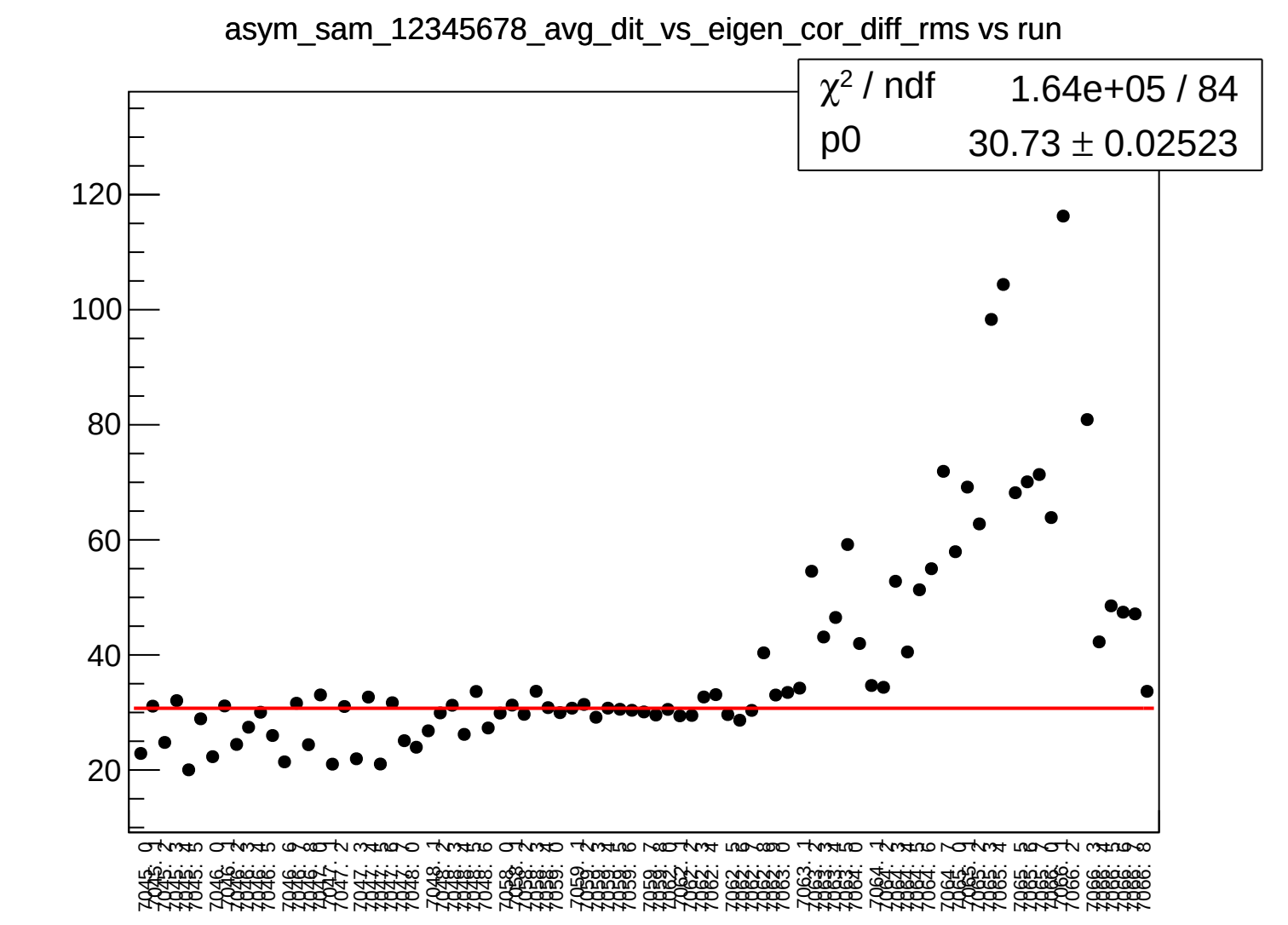

pull1D
Entries 85
Mean −0.04444
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

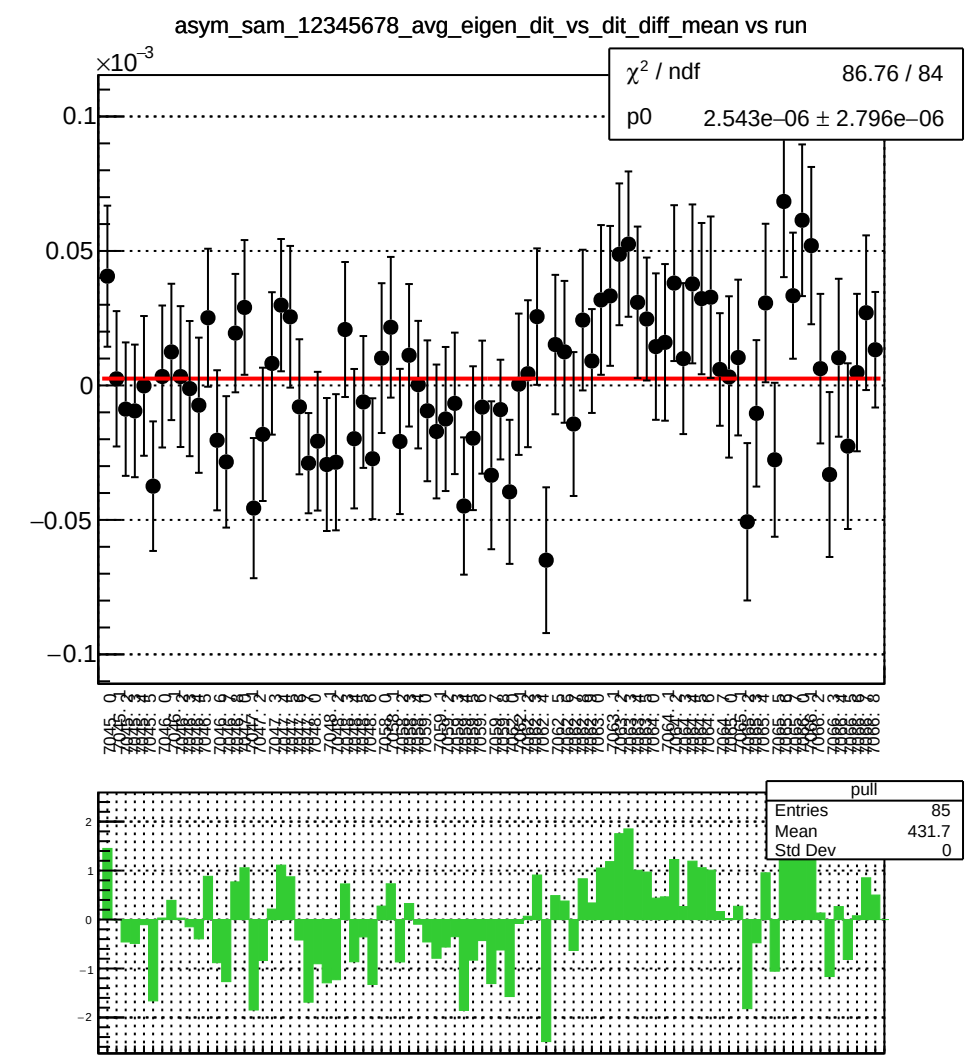

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.834e+05 / 84
p0 1.058e−11 ± 1.298e−14
0.05
0.04
0.03
0.02
0.01
0

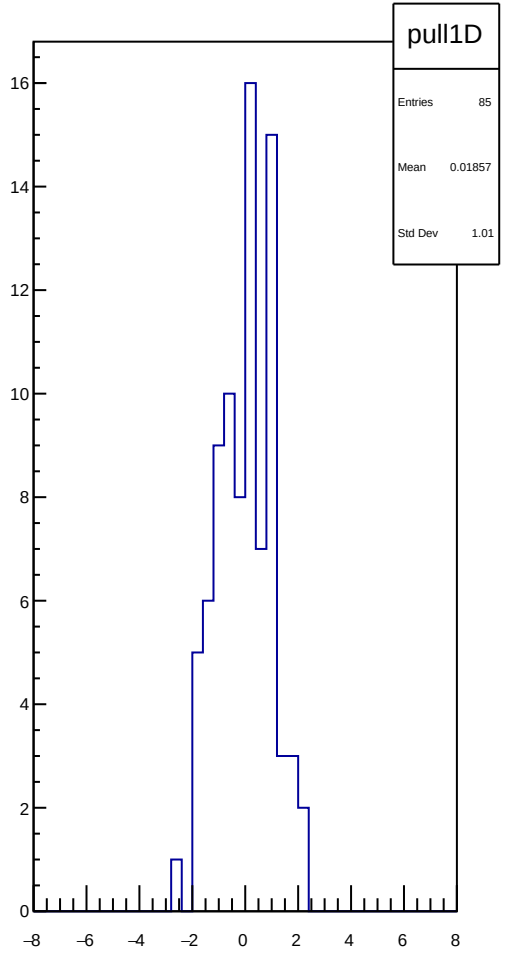

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 84
p0 0.07007 ± 0.03568
pull
Entries 85
Mean 110
Std Dev 0
pull1D
Entries 85
Mean 0.04627
Std Dev 0.9464

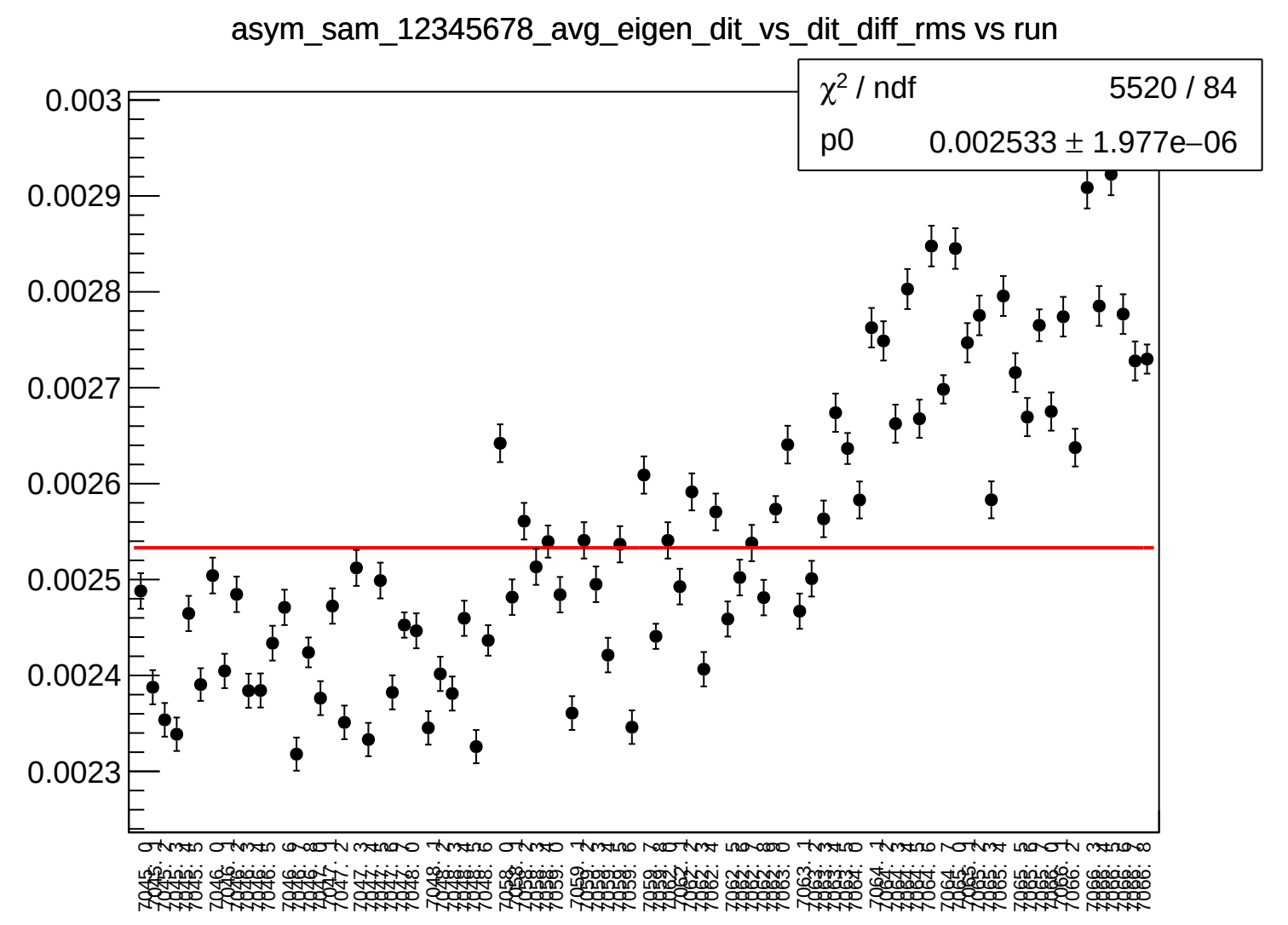

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.64e+05 / 84
p0 30.73 ± 0.02523
120
100
80
60
40
20

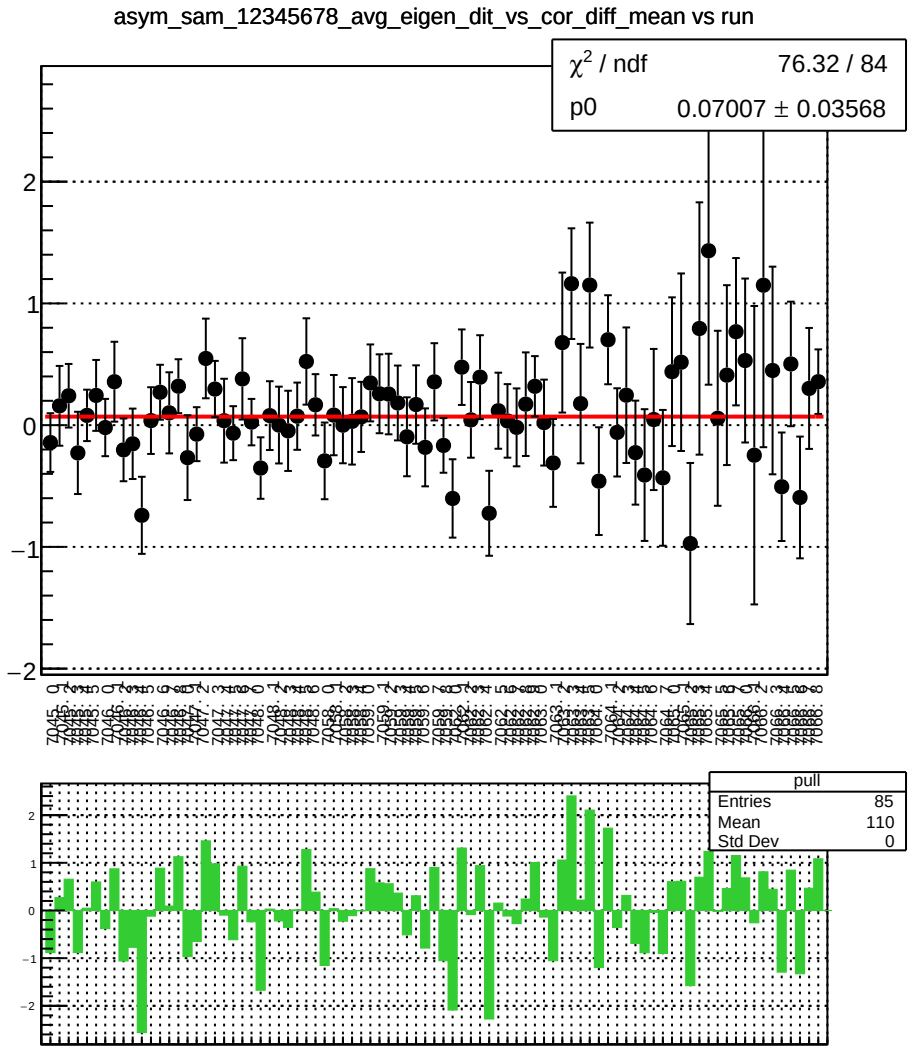

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.32 / 84
p0 0.07007 ± 0.03568
pull
Entries 85
Mean 110
Std Dev 0
pull1D
Entries 85
Mean 0.04627
Std Dev 0.9464

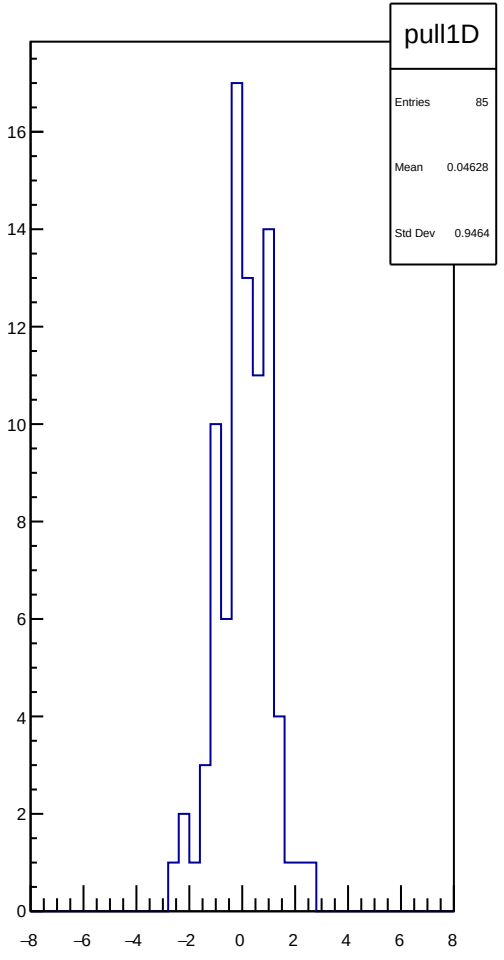

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.64e+05 / 84
p0 30.73 ± 0.02523
120
100
80
60
40
20

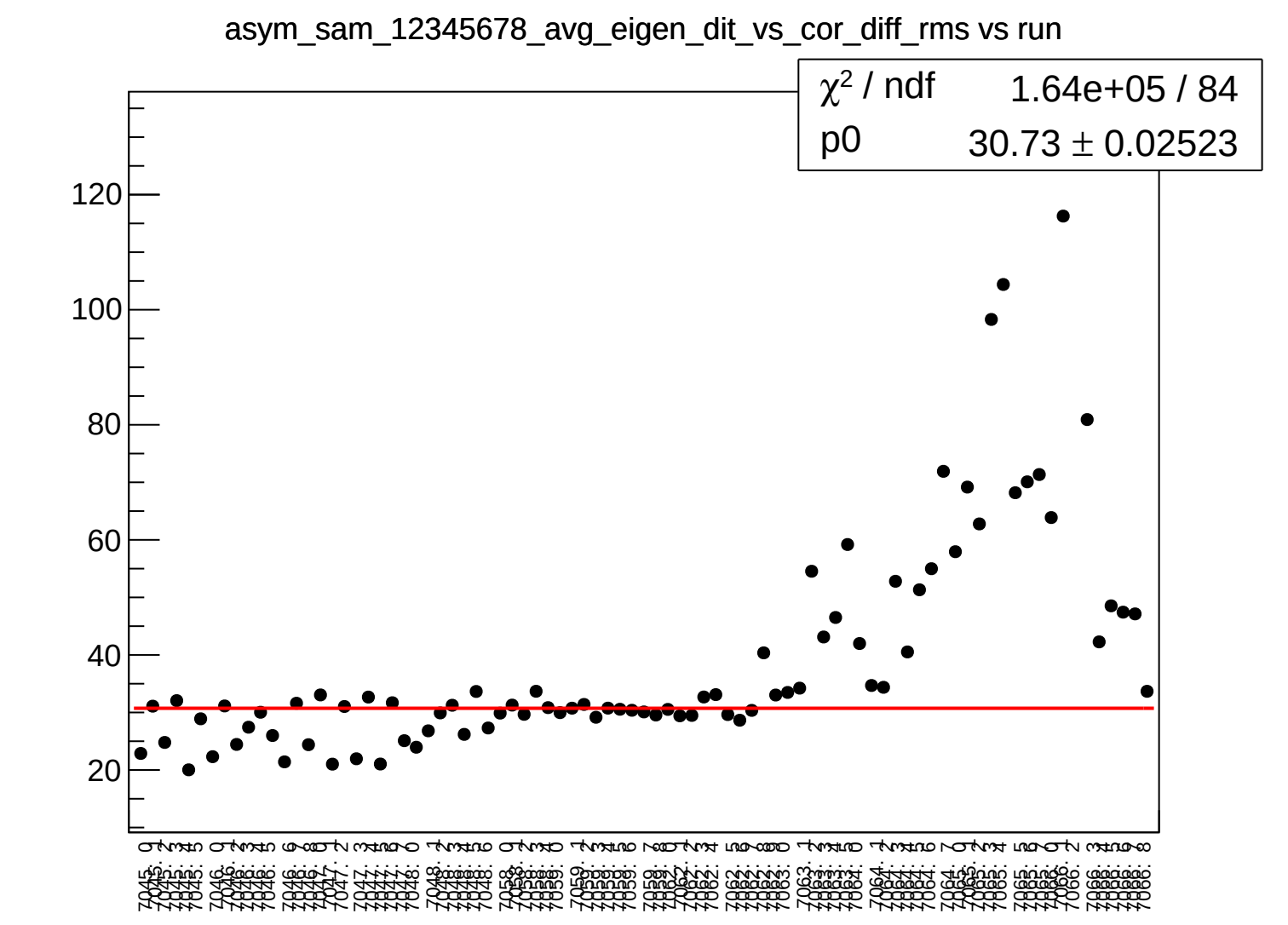

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.76 / 84
p0 2.543e−06 ± 2.796e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 431.7
Std Dev 0
2
1
0
−1
−2

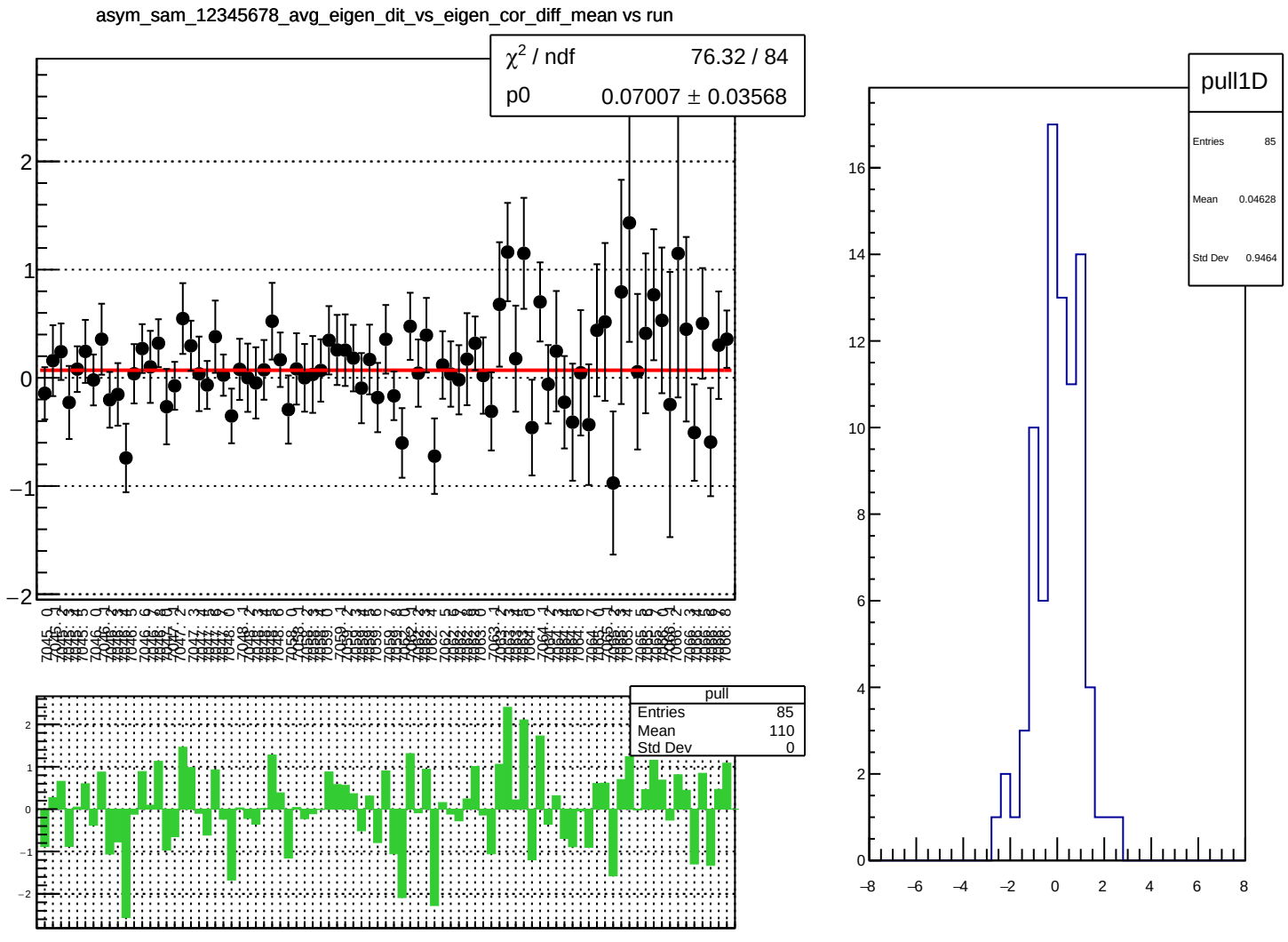

pull1D
Entries 85
Mean 0.01857
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

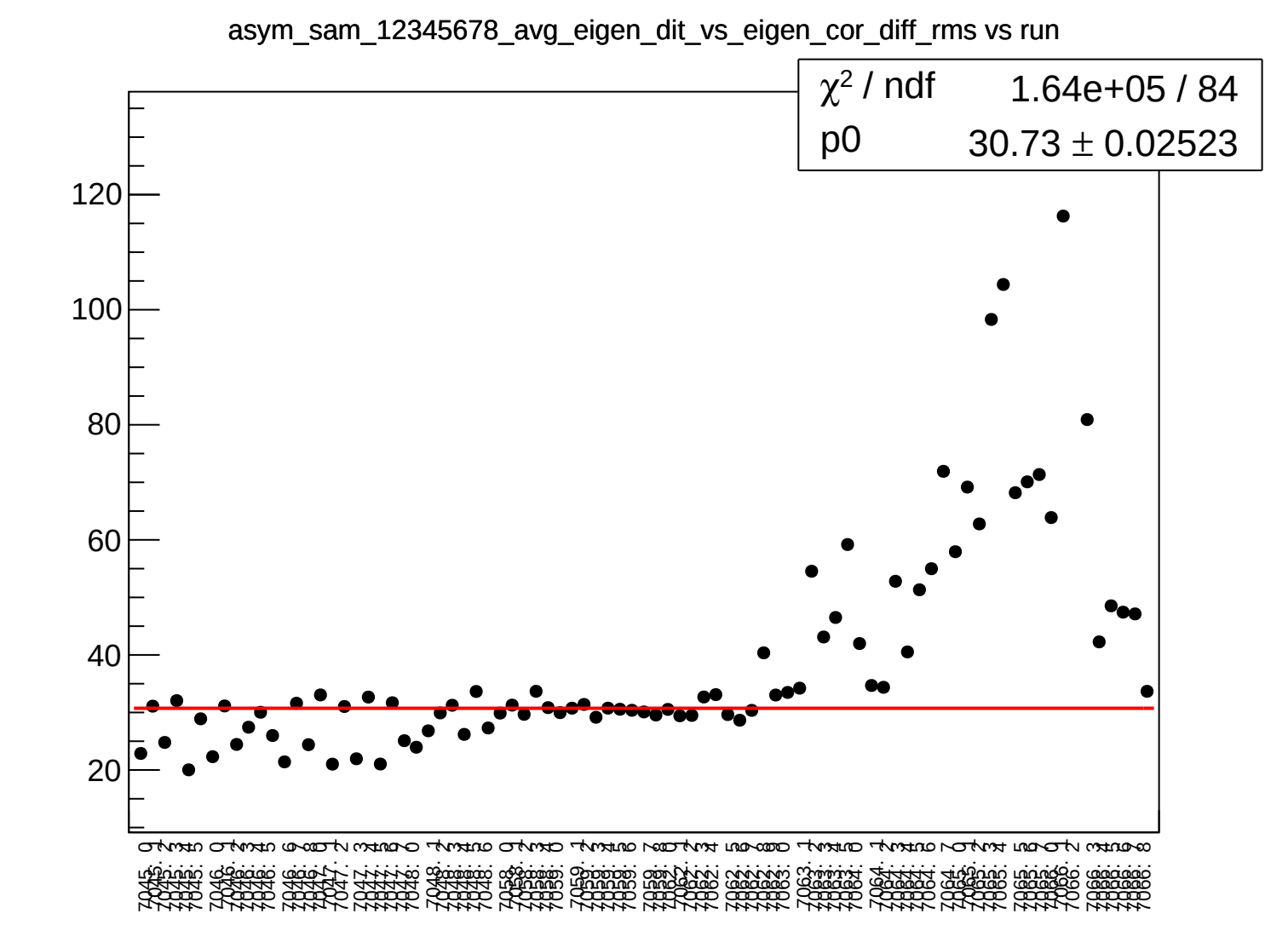

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5520 / 84
p0 0.002533 ± 1.977e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

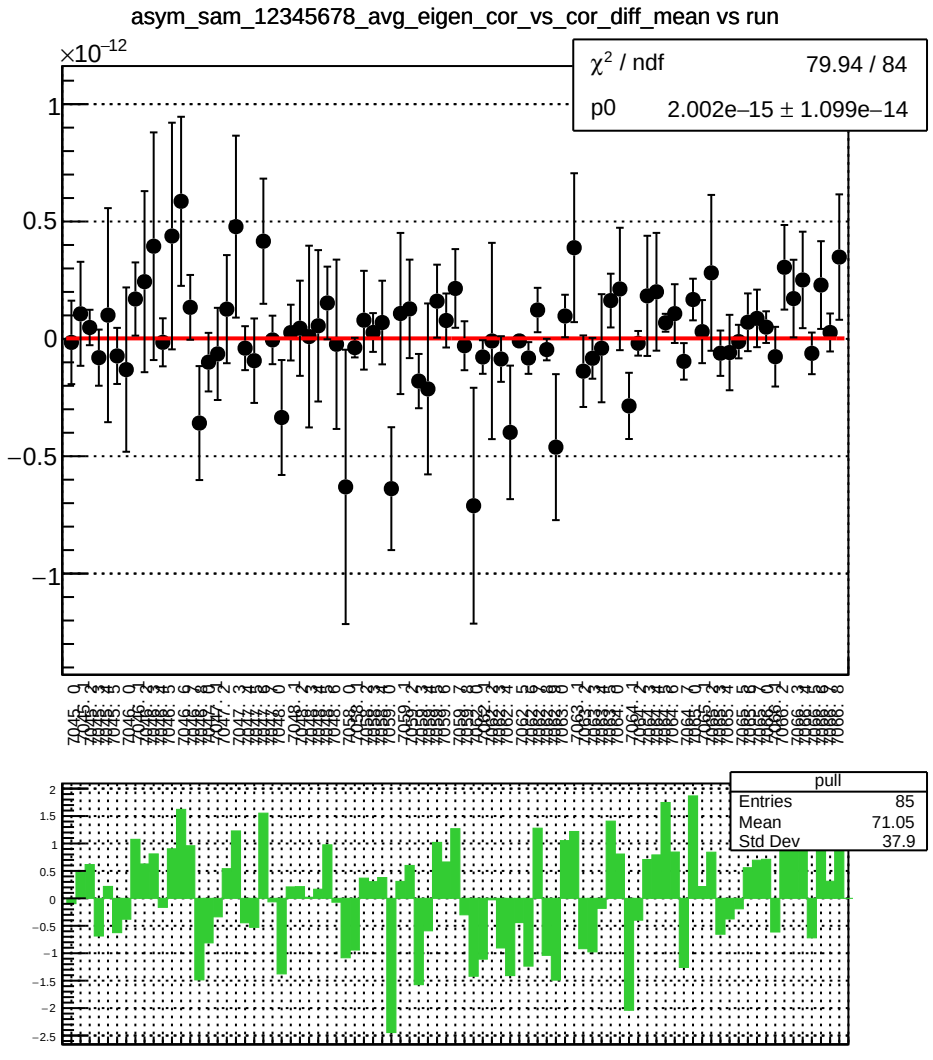

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 84
p0 0.07007 ± 0.03568
pull
Entries 85
Mean 110
Std Dev 0

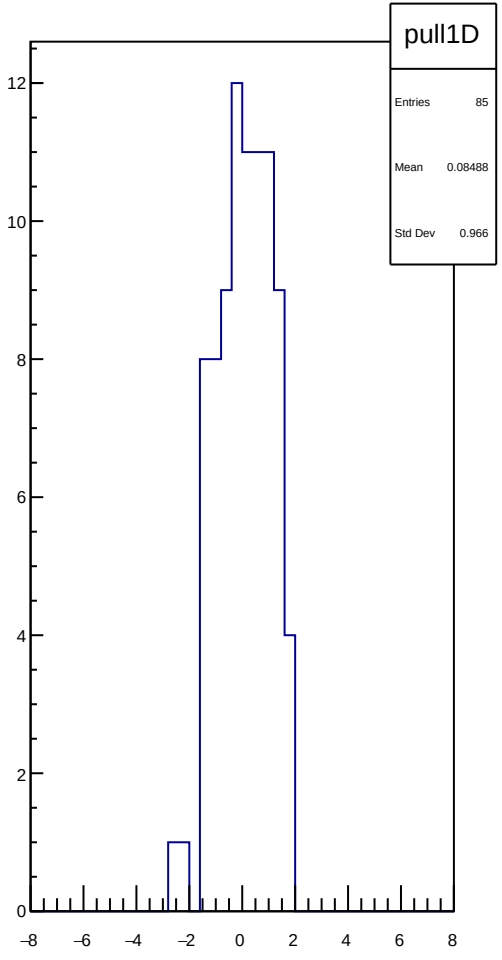

pull1D
Entries 85
Mean 0.04628
Std Dev 0.9464

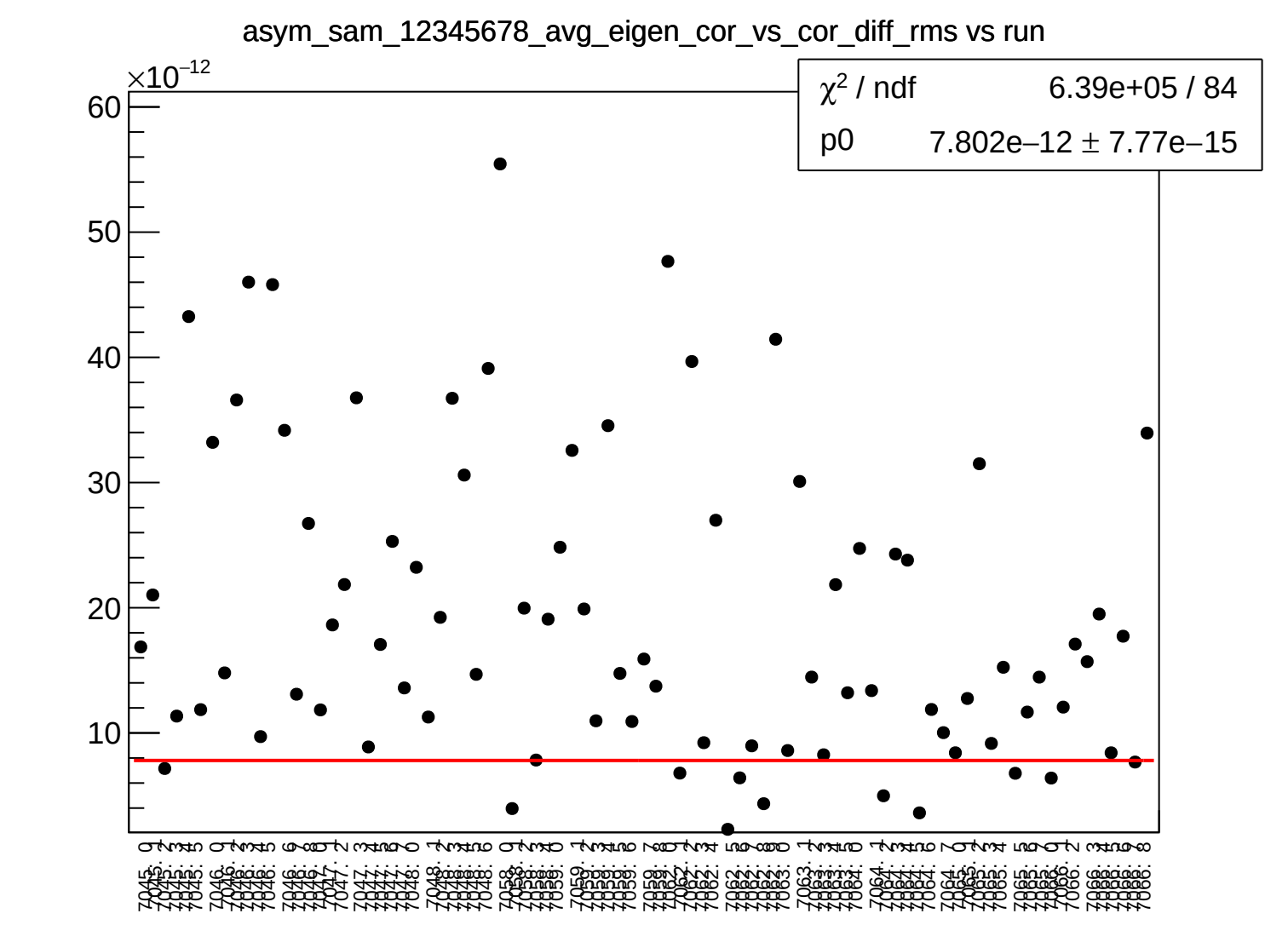

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.64e+05 / 84
p0 30.73 ± 0.02523
120
100
80
60
40
20

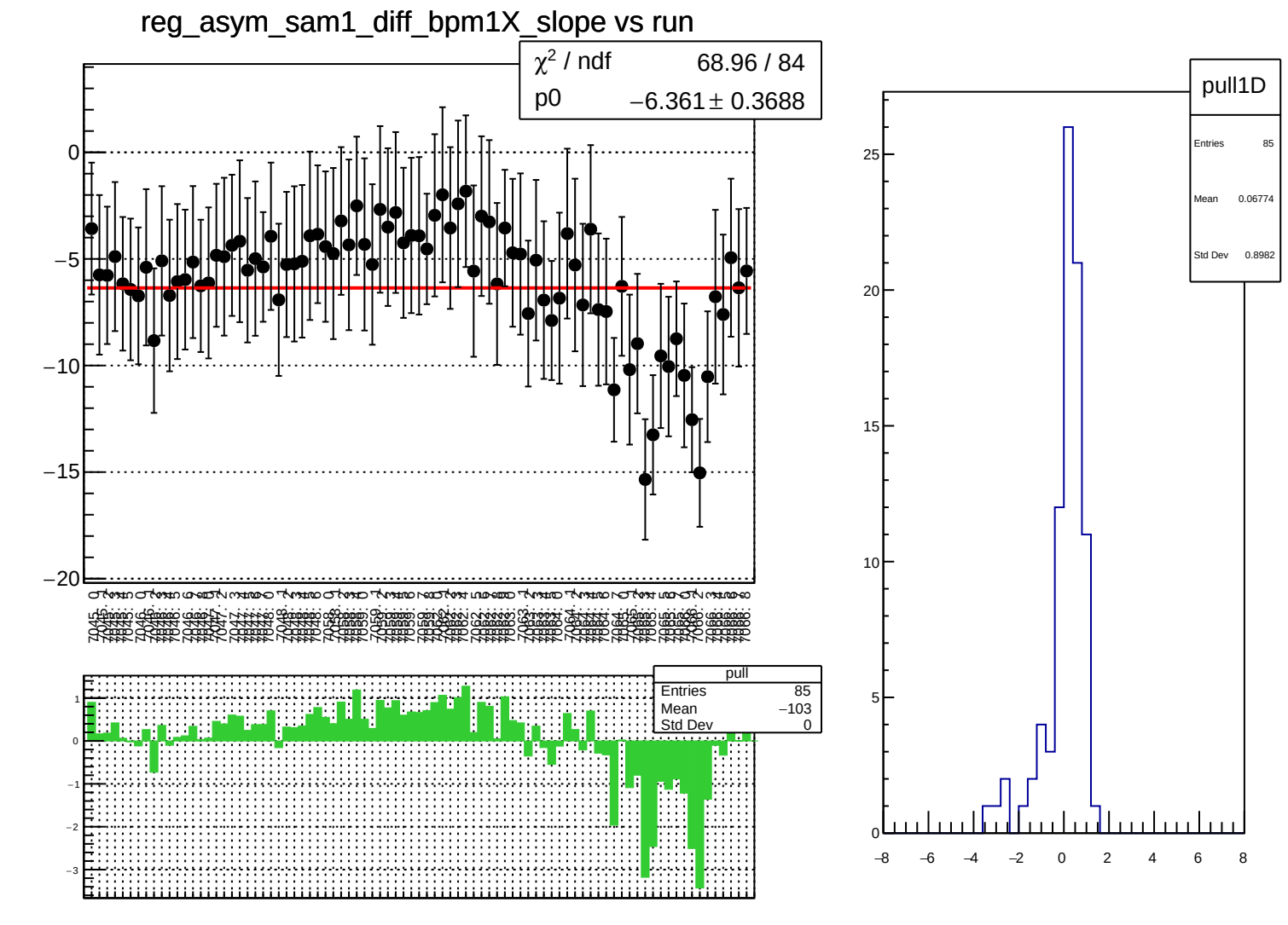

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.32 / 84
p0 0.07007 ± 0.03568
pull
Entries 85
Mean 110
Std Dev 0
pull1D
Entries 85
Mean 0.04628
Std Dev 0.9464

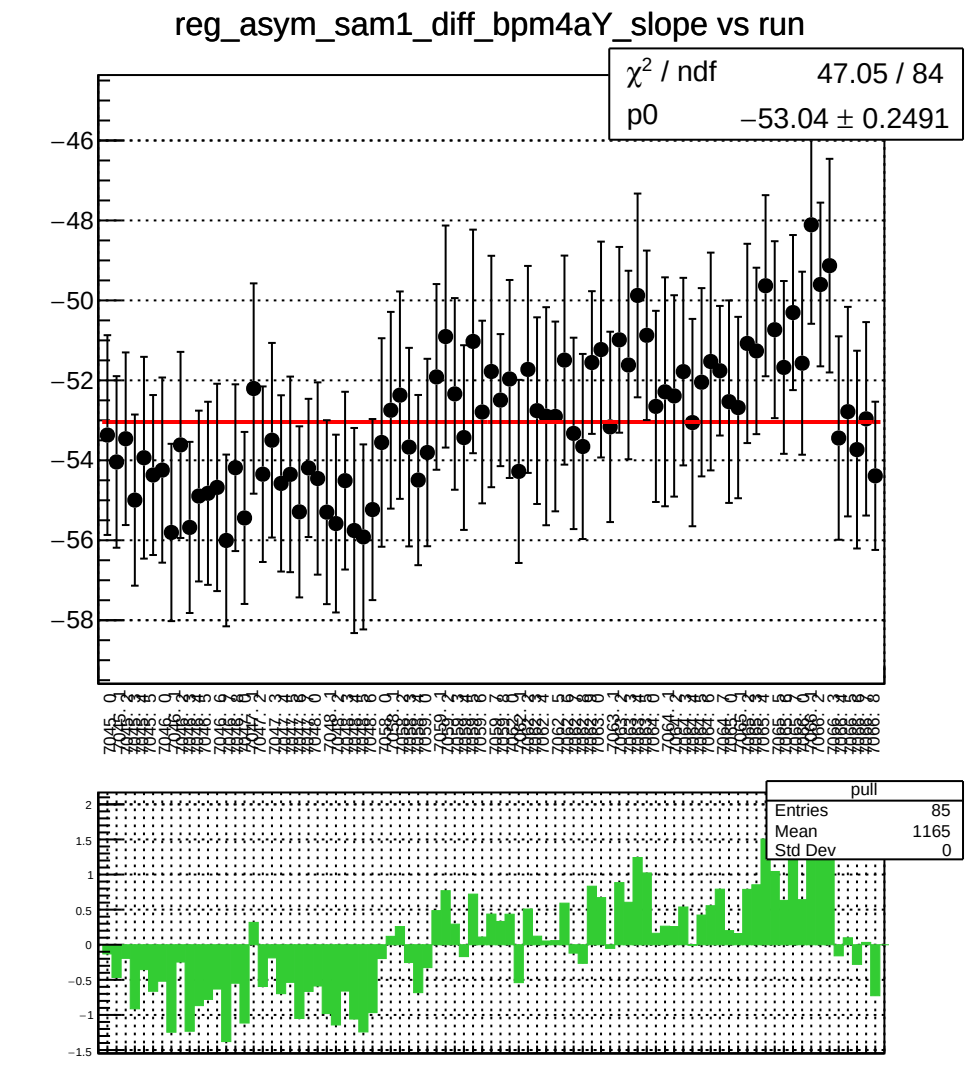

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.64e+05 / 84
p0 30.73 ± 0.02523
120
100
80
60
40
20

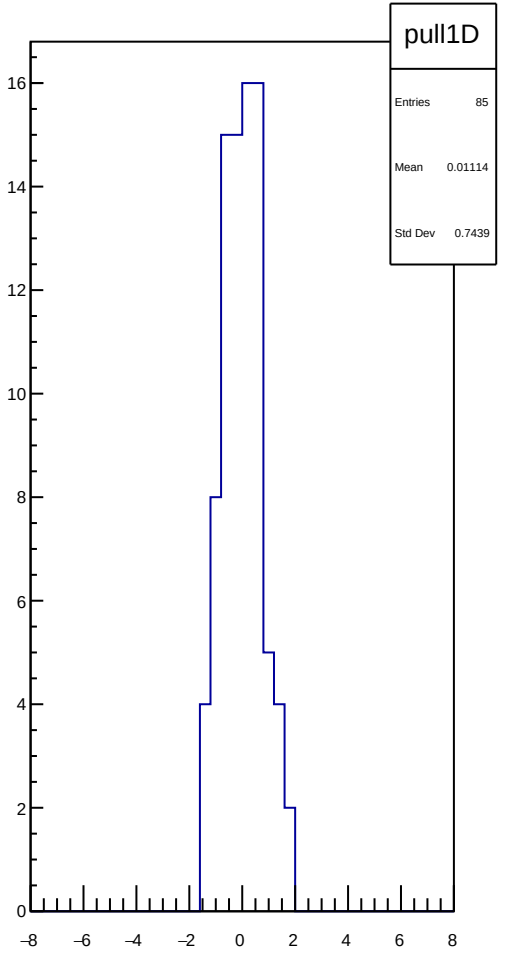

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.94 / 84
p0 2.002e−15 ± 1.099e−14
pull
Entries 85
Mean 71.05
Std Dev 37.9

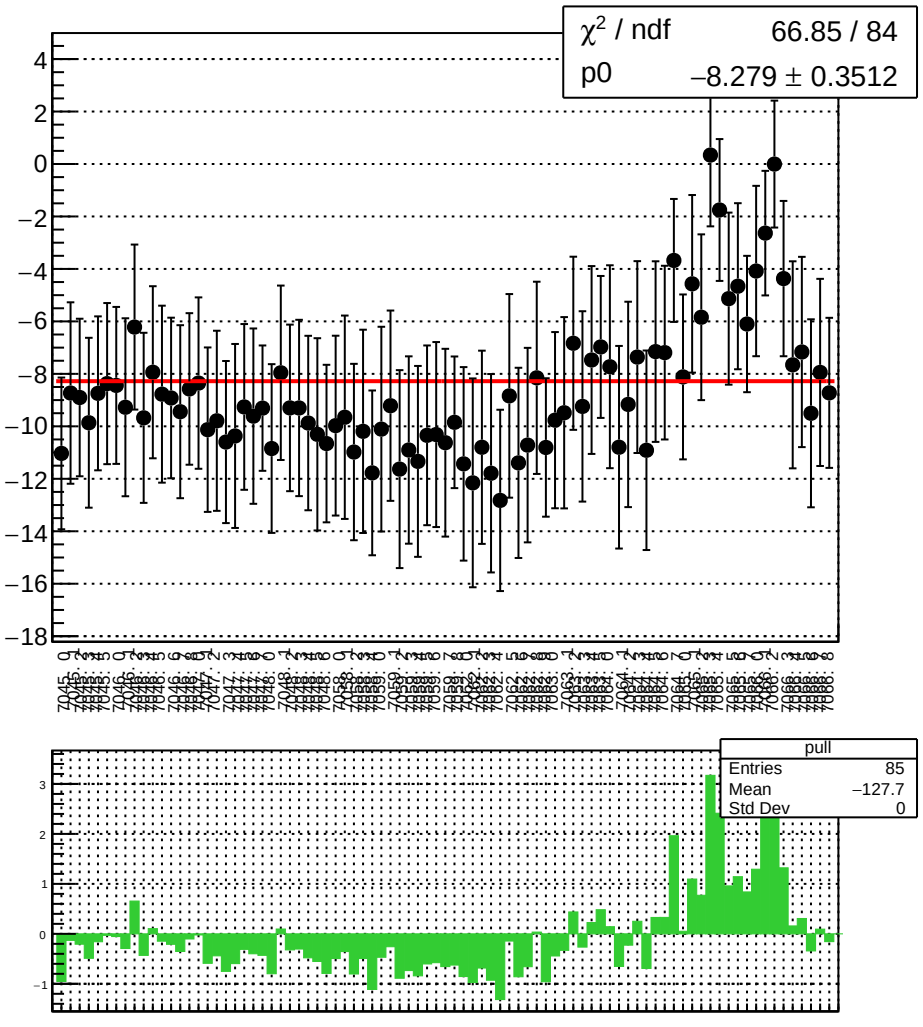

pull1D
Entries 85
Mean 0.08488
Std Dev 0.966

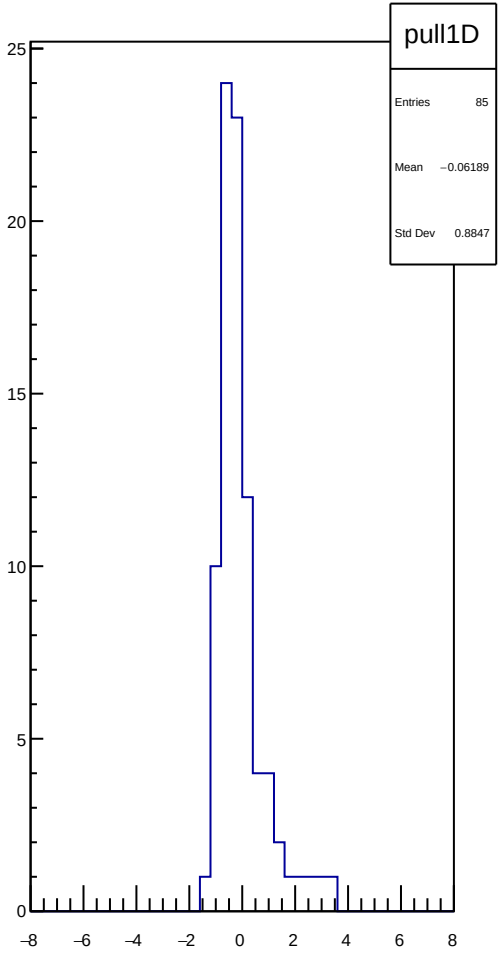

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 6.39e+05 / 84
p0 7.802e−12 ± 7.77e−15

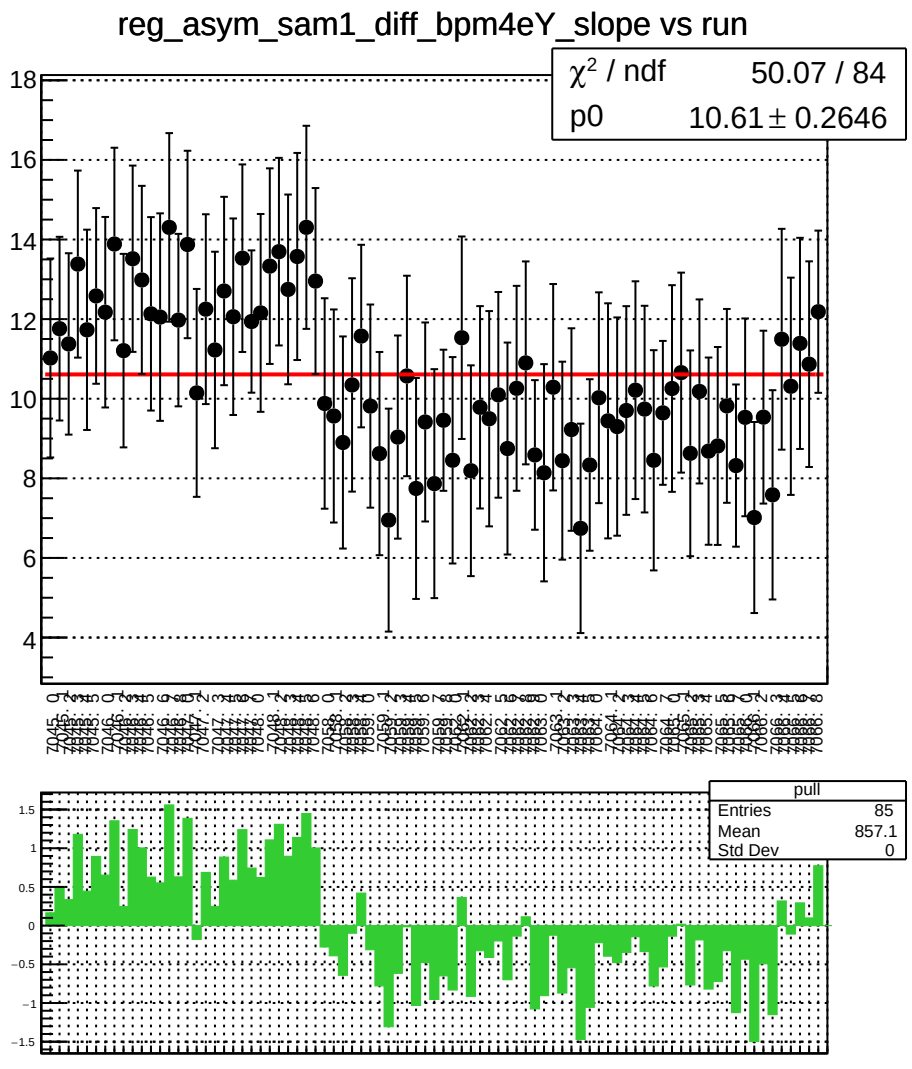

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 68.96 / 84
p0 −6.361 ± 0.3688
pull
Entries 85
Mean −103
Std Dev 0
pull1D
Entries 85
Mean 0.06774
Std Dev 0.8982

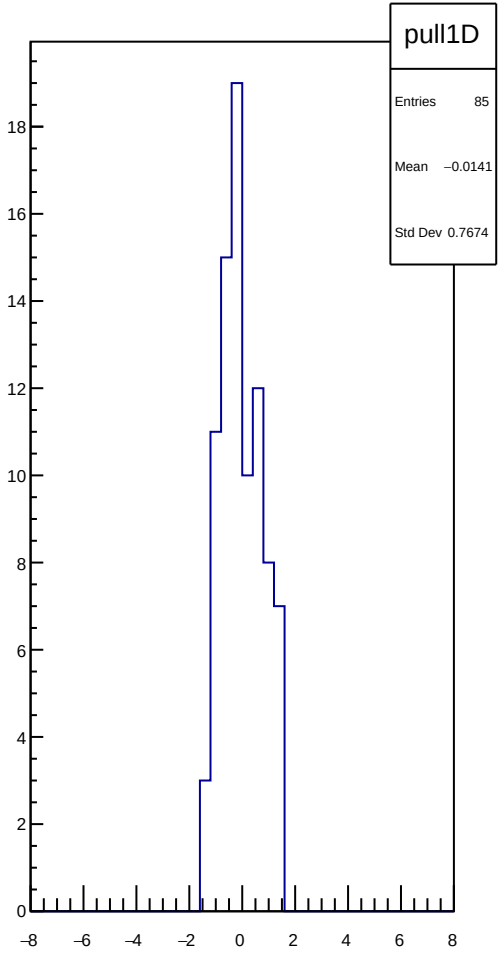

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 47.05 / 84
p0 −53.04 ± 0.2491
−46
−48
−50
−52
−54
−56
−58
pull
Entries 85
Mean 1165
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

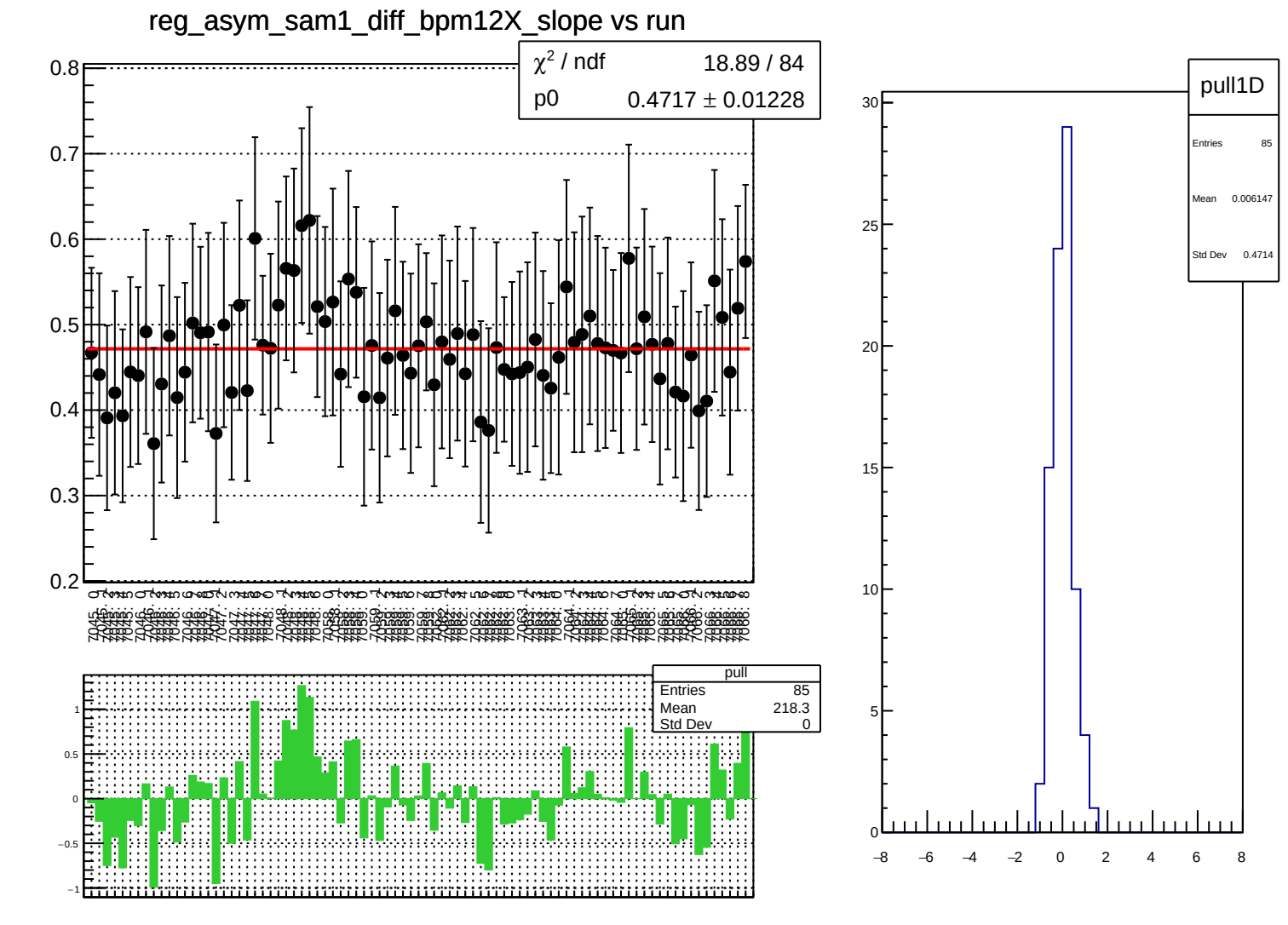

pull1D
Entries 85
Mean 0.01114
Std Dev 0.7439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

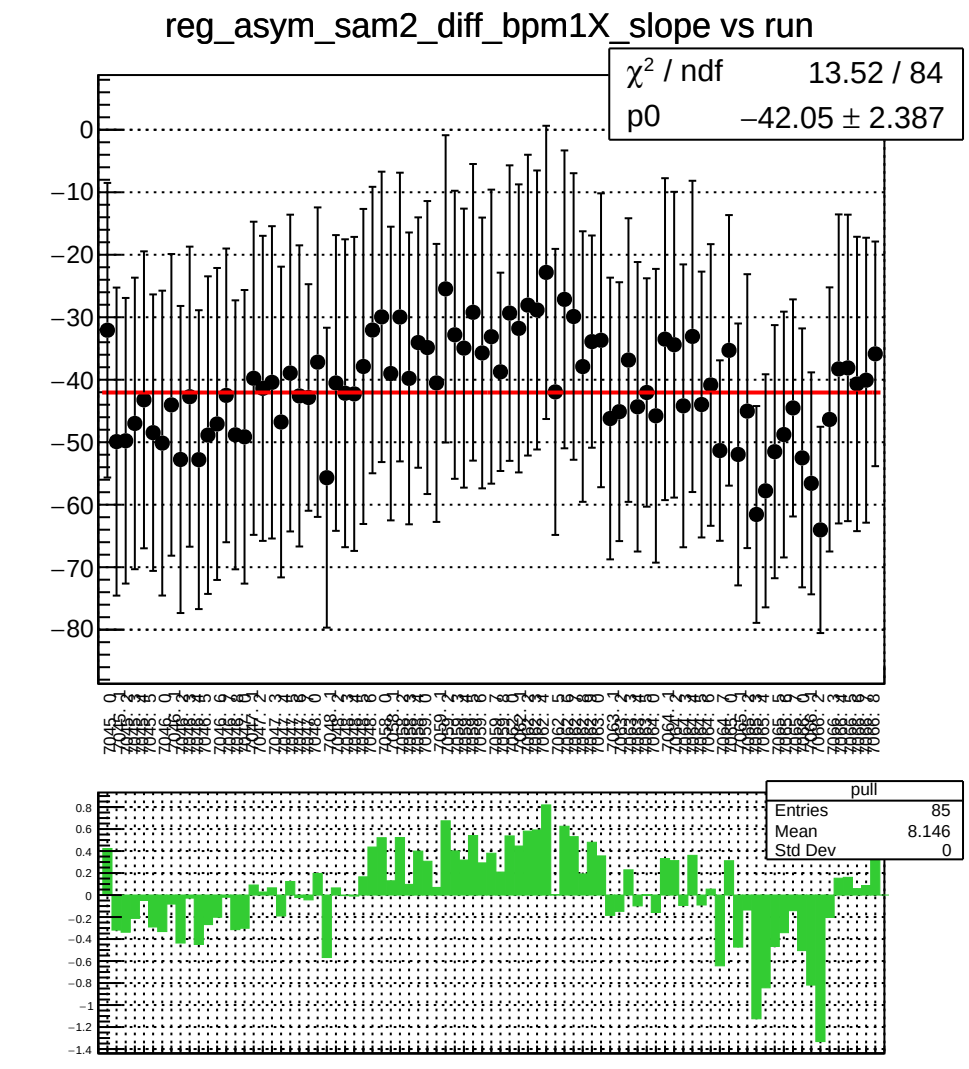

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 66.85 / 84
p0 −8.279 ± 0.3512
pull
Entries 85
Mean −127.7
Std Dev 0

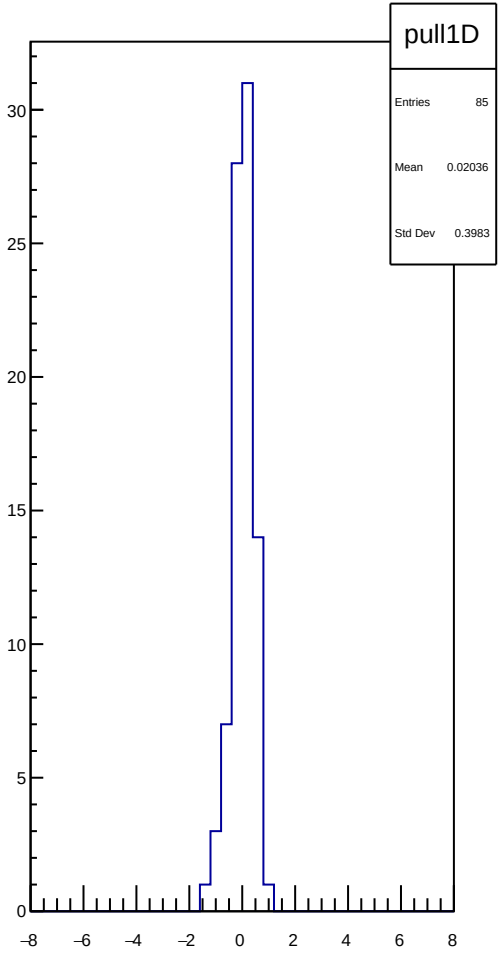

pull1D
Entries 85
Mean −0.06189
Std Dev 0.8847

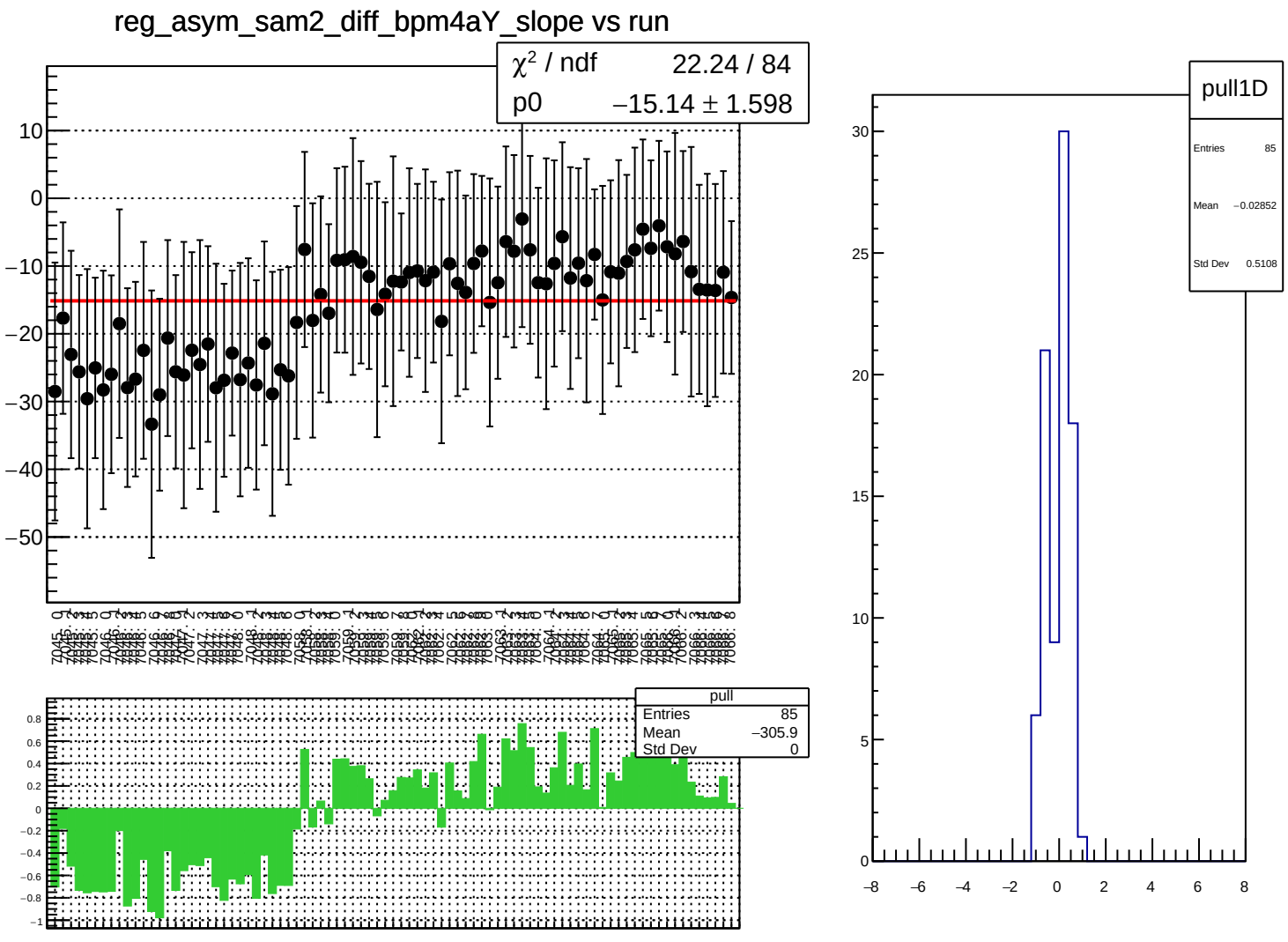

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 50.07 / 84
p0 10.61 ± 0.2646
pull
Entries 85
Mean 857.1
Std Dev 0

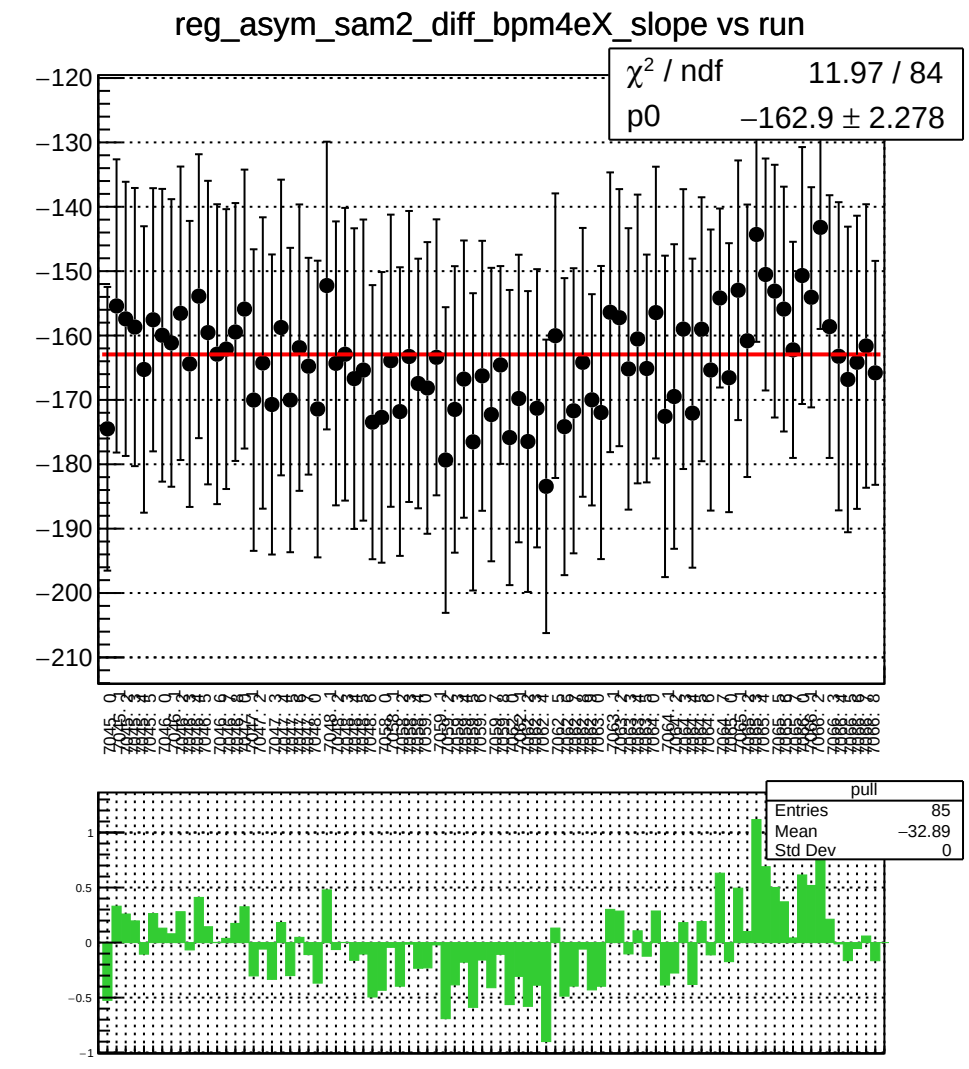

pull1D
Entries 85
Mean −0.0141
Std Dev 0.7674

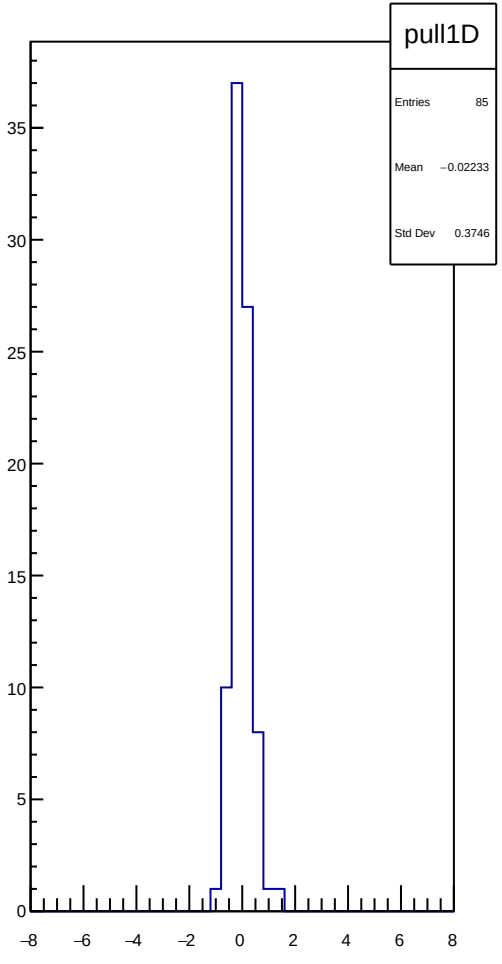

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 18.89 / 84
p0 0.4717 ± 0.01228
pull
Entries 85
Mean 218.3
Std Dev 0
pull1D
Entries 85
Mean 0.006147
Std Dev 0.4714

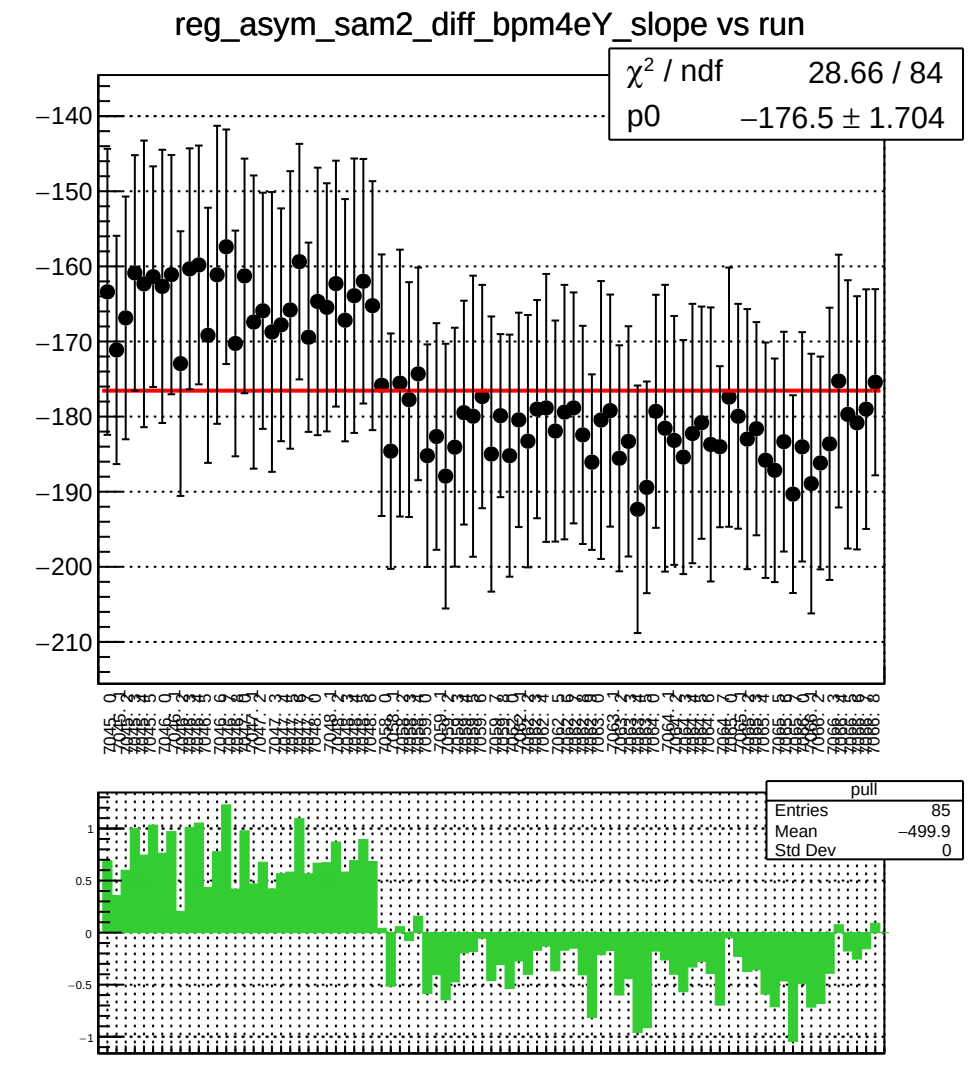

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 13.52 / 84
p0 −42.05 ± 2.387
pull
Entries 85
Mean 8.146
Std Dev 0

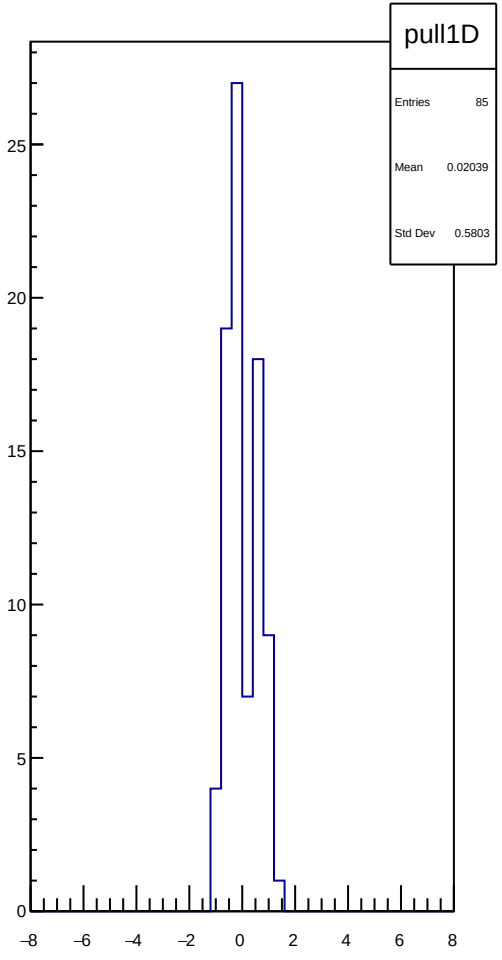

pull1D
Entries 85
Mean 0.02036
Std Dev 0.3983

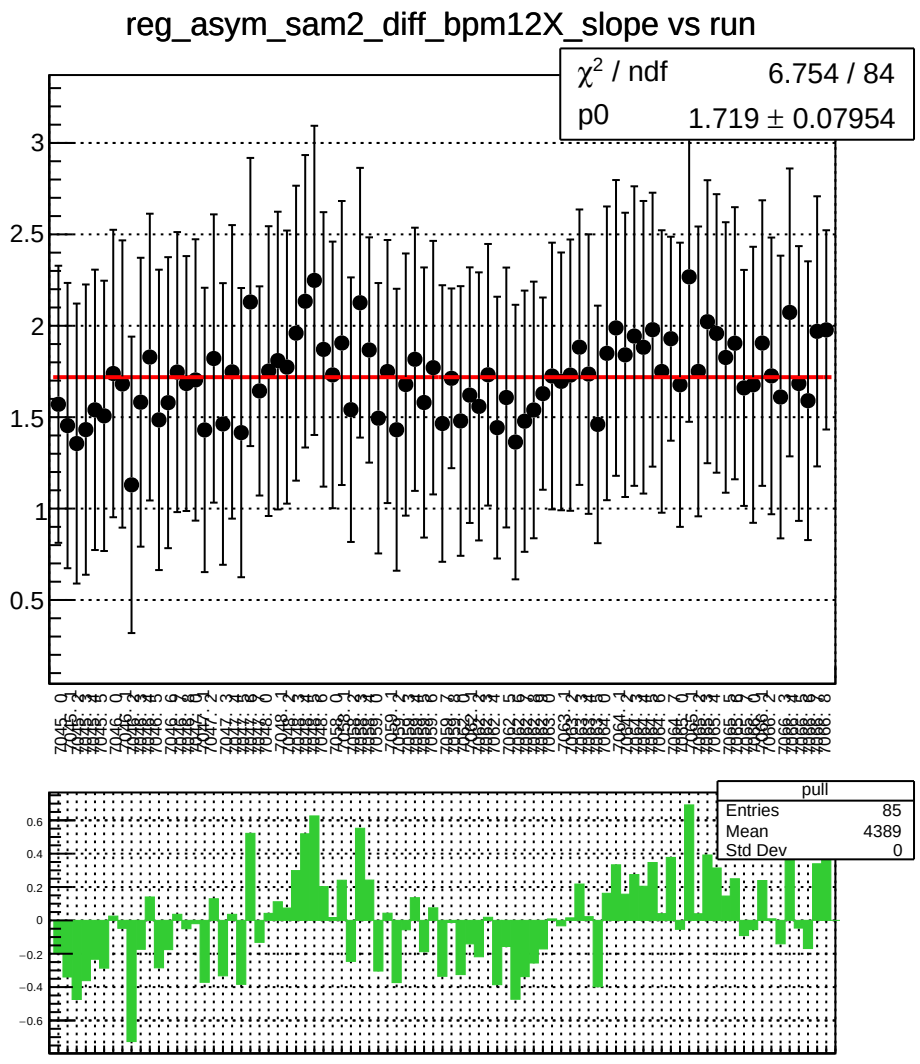

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 22.24 / 84
p0 −15.14 ± 1.598
pull
Entries 85
Mean −305.9
Std Dev 0
pull1D
Entries 85
Mean −0.02852
Std Dev 0.5108

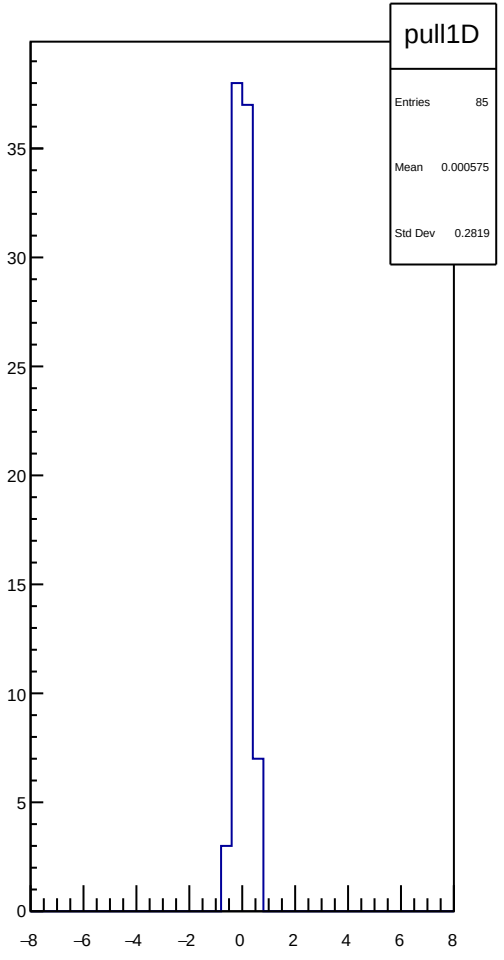

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 11.97 / 84
p0 −162.9 ± 2.278
pull
Entries 85
Mean −32.89
Std Dev 0

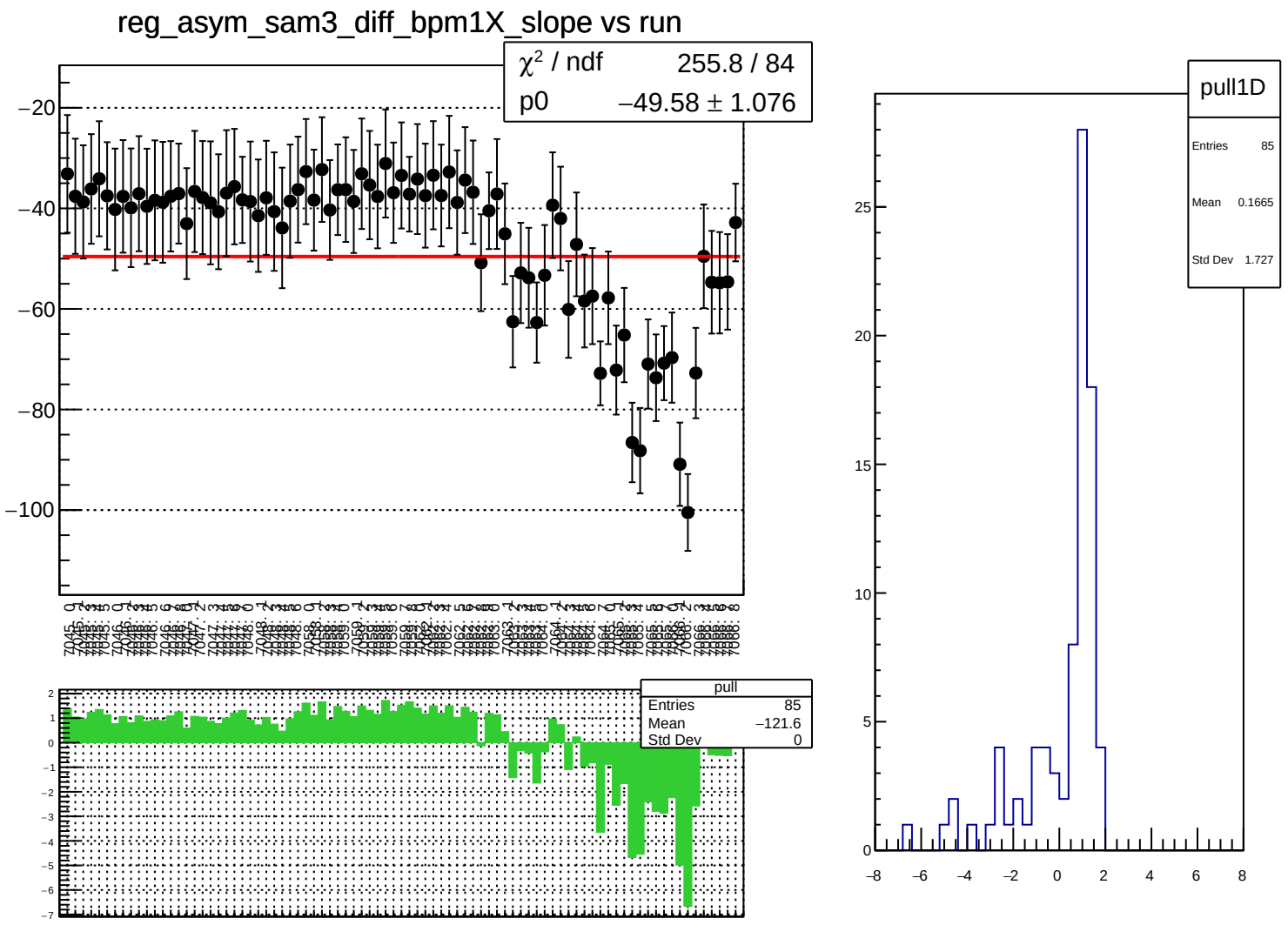

pull1D
Entries 85
Mean −0.02233
Std Dev 0.3746

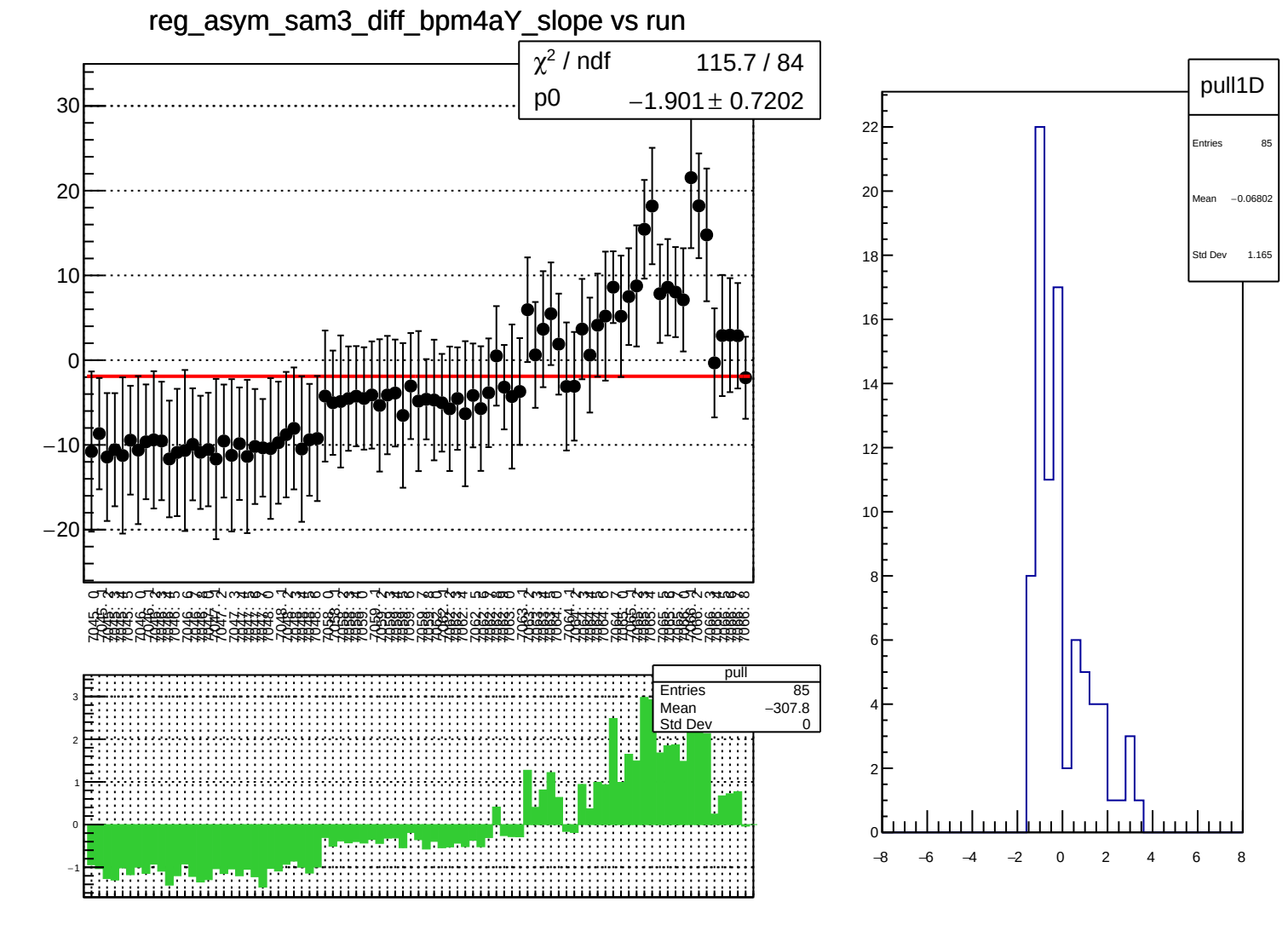

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 28.66 / 84
p0 −176.5 ± 1.704
pull
Entries 85
Mean −499.9
Std Dev 0

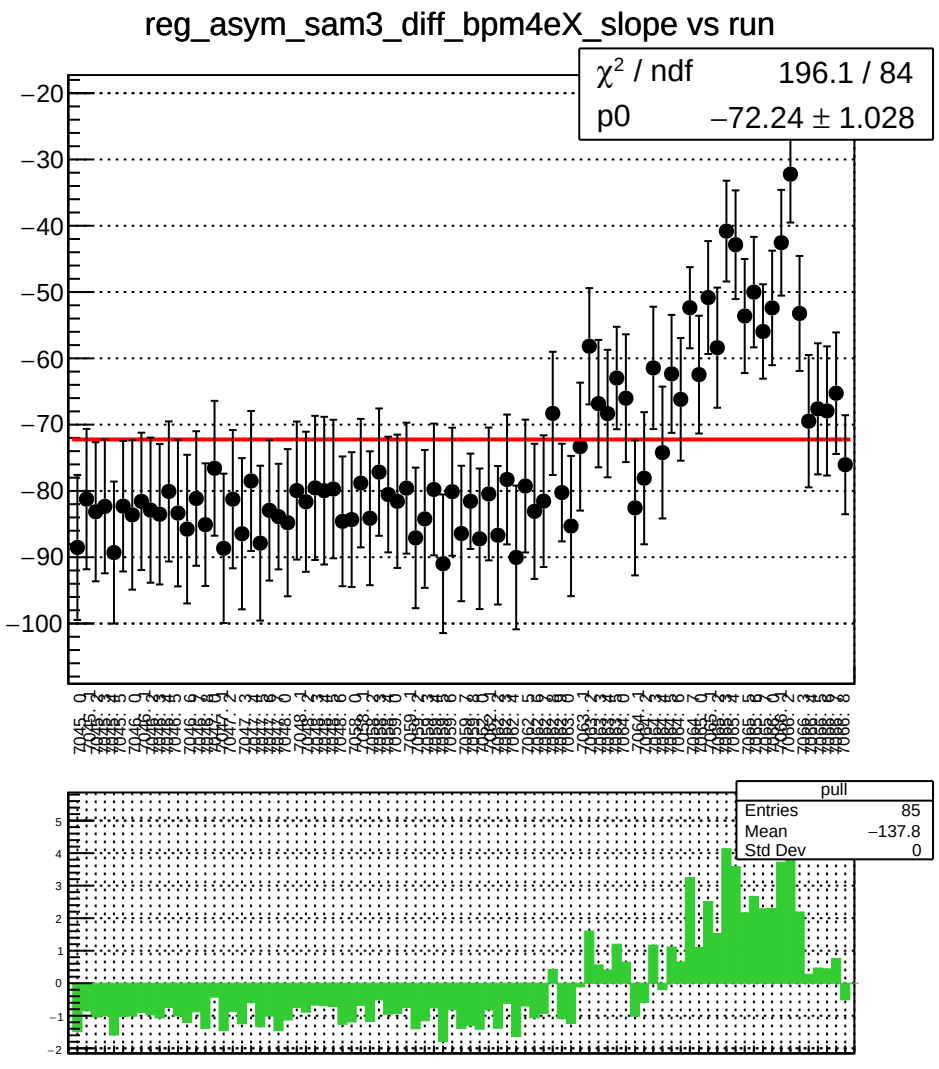

pull1D
Entries 85
Mean 0.02039
Std Dev 0.5803

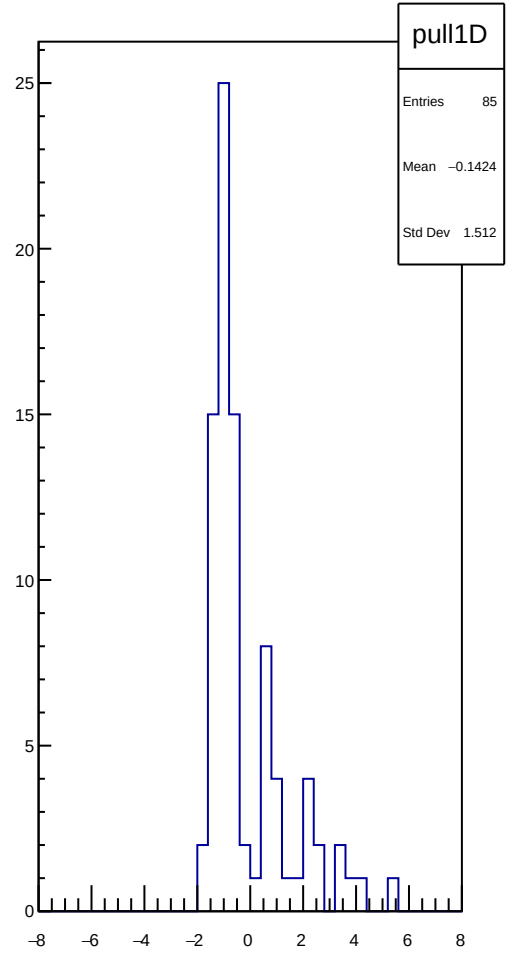

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.754 / 84
p0 1.719 ± 0.07954
pull
Entries 85
Mean 4389
Std Dev 0

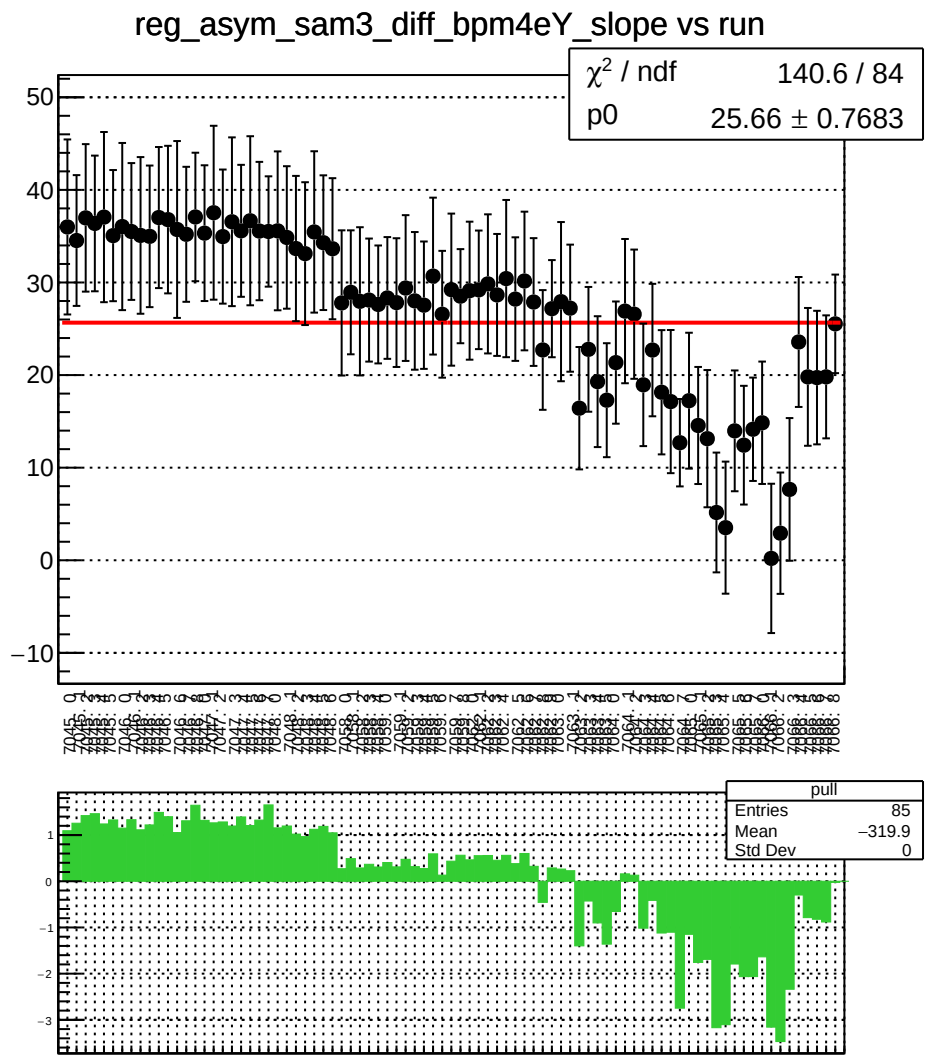

pull1D
Entries 85
Mean 0.000575
Std Dev 0.2819

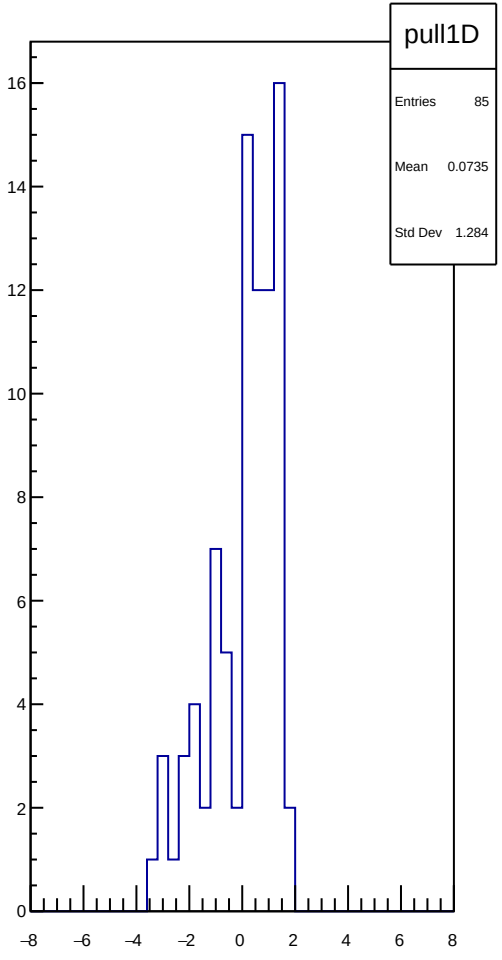

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 255.8 / 84
p0 −49.58 ± 1.076
pull
Entries 85
Mean −121.6
Std Dev 0
pull1D
Entries 85
Mean 0.1665
Std Dev 1.727

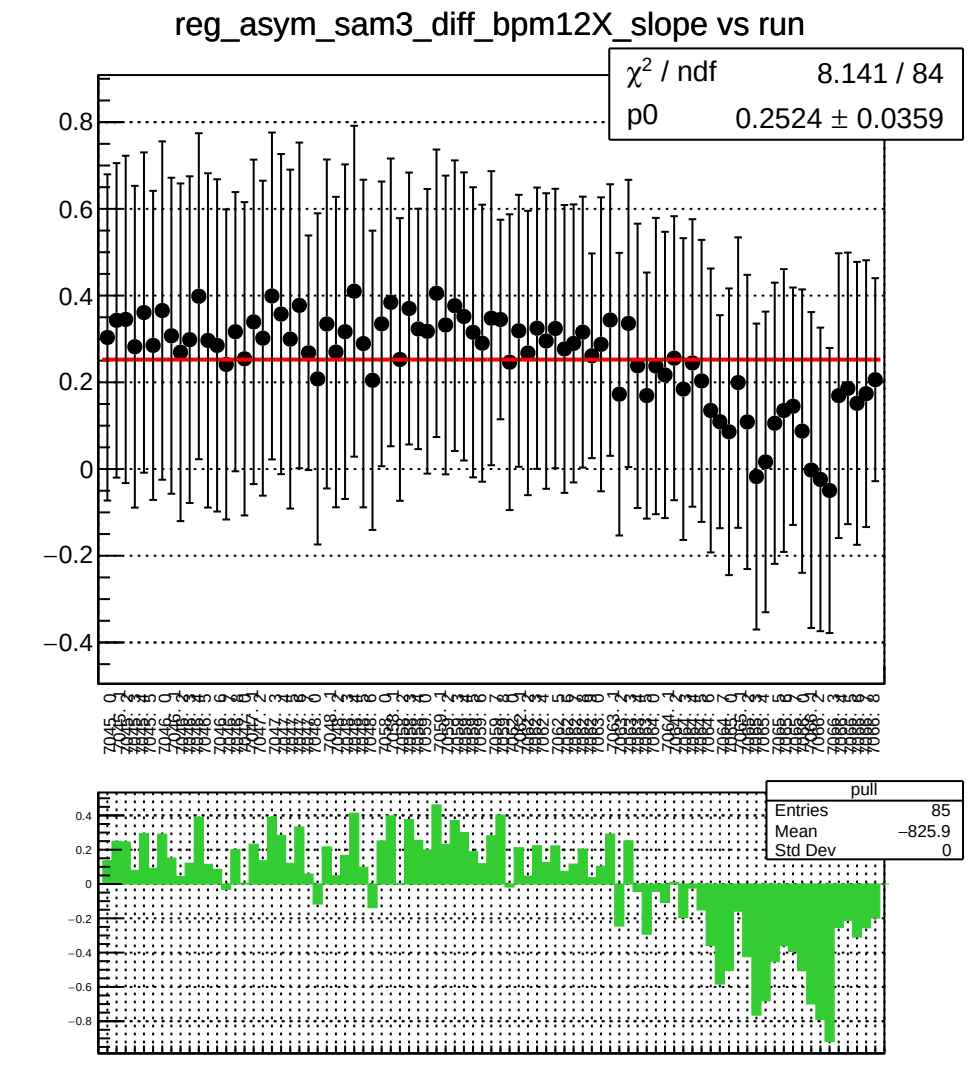

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 115.7 / 84
p0 −1.901 ± 0.7202
pull
Entries 85
Mean −307.8
Std Dev 0
pull1D
Entries 85
Mean −0.06802
Std Dev 1.165

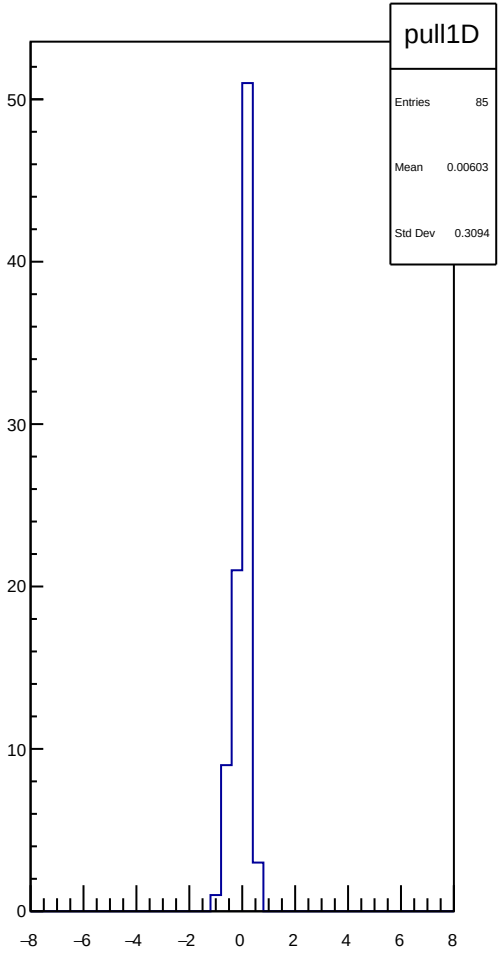

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 196.1 / 84
p0 −72.24 ± 1.028
pull
Entries 85
Mean −137.8
Std Dev 0

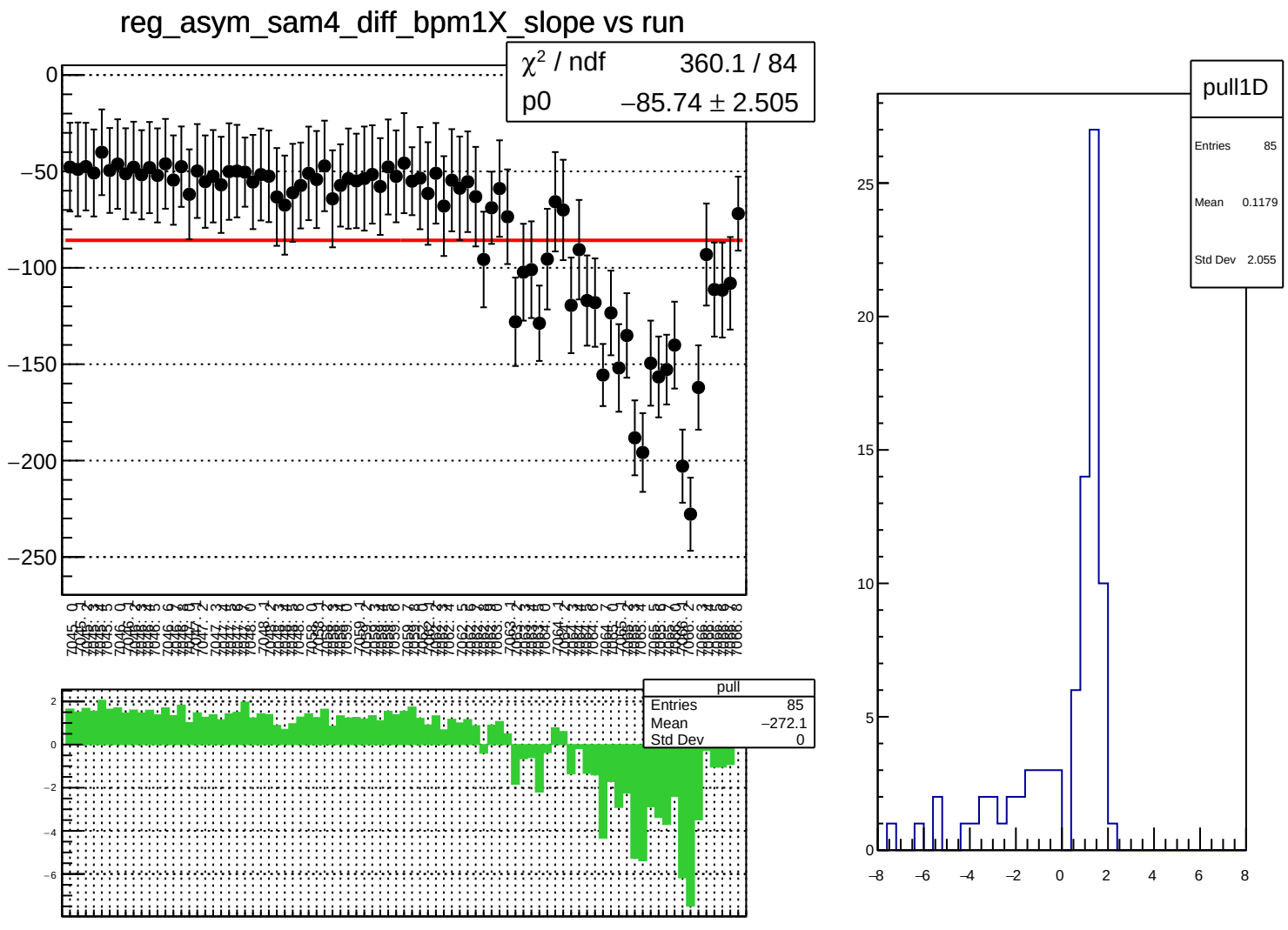

pull1D
Entries 85
Mean −0.1424
Std Dev 1.512

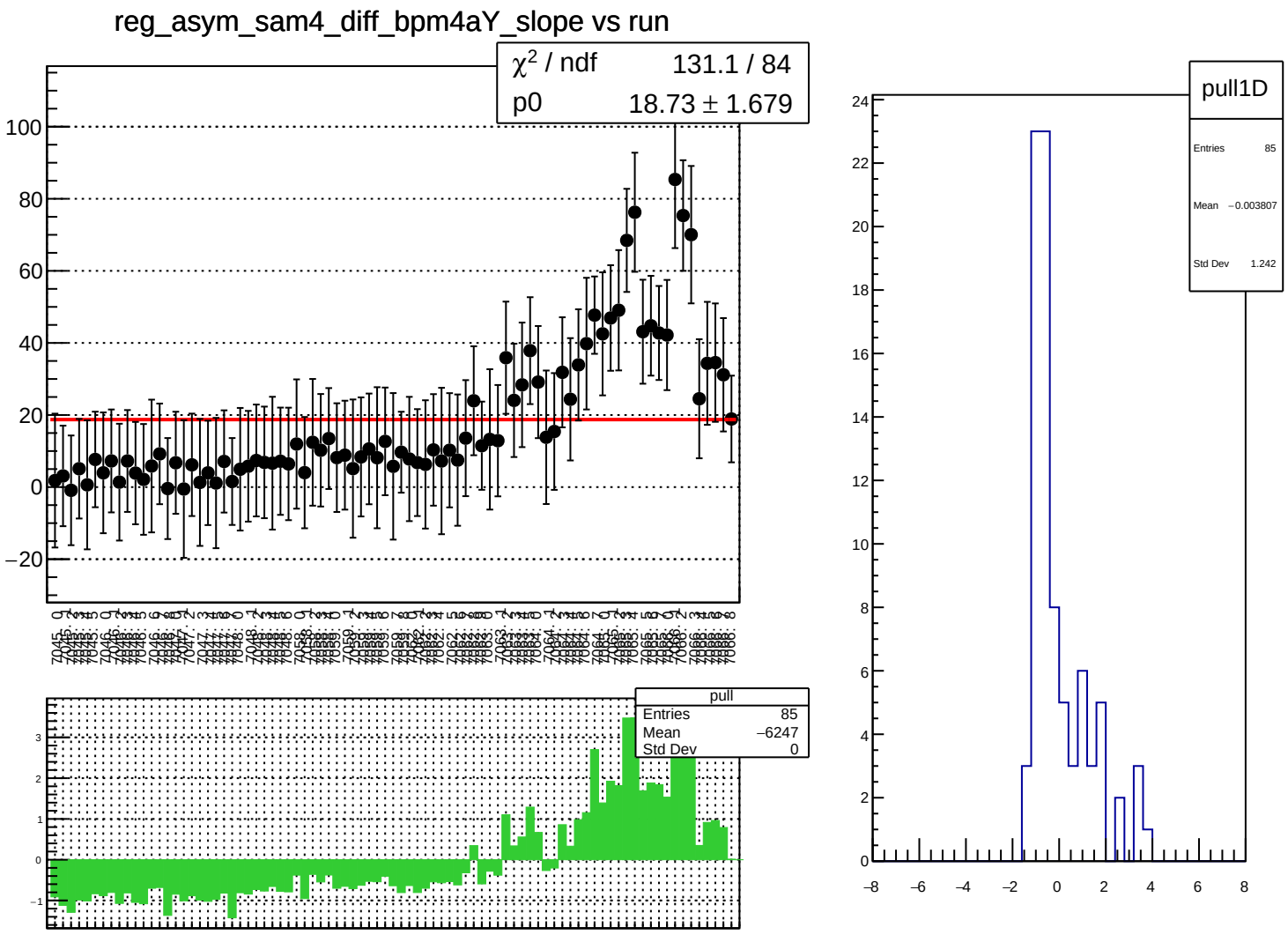

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 140.6 / 84
p0 25.66 ± 0.7683
pull
Entries 85
Mean −319.9
Std Dev 0

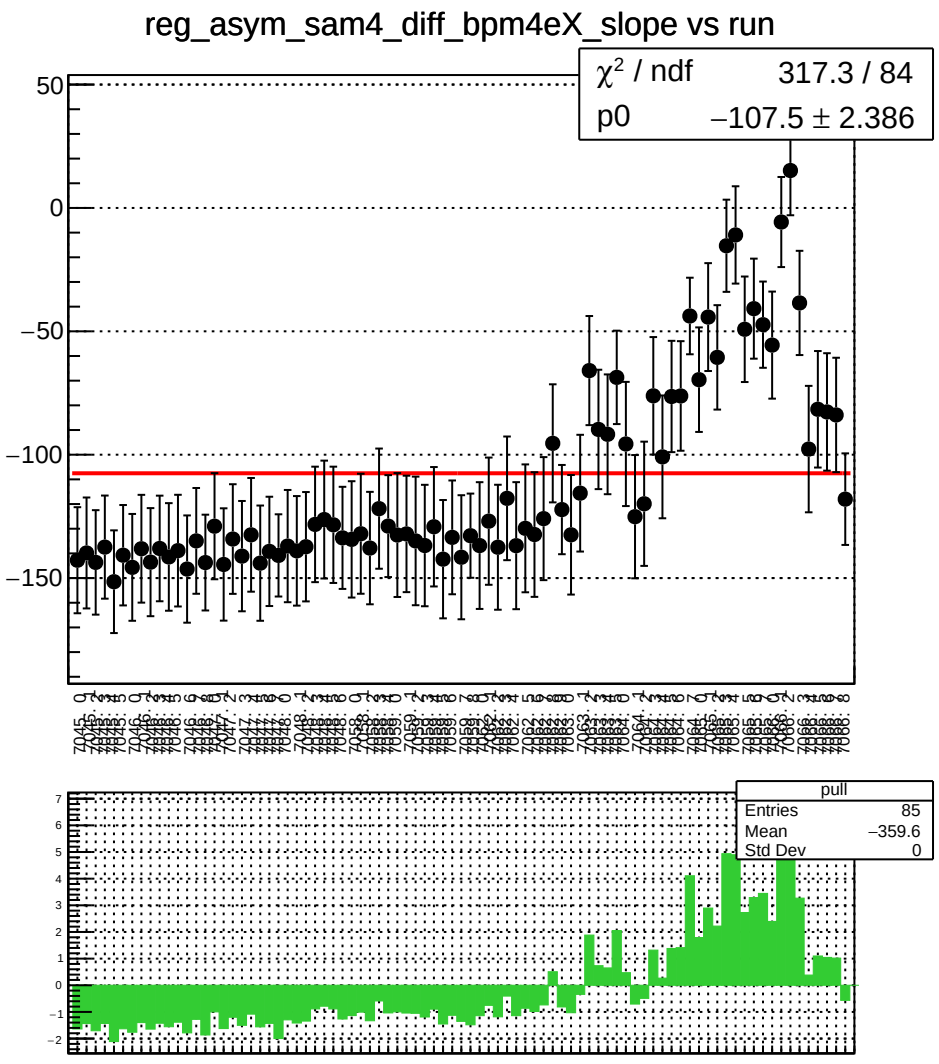

pull1D
Entries 85
Mean 0.0735
Std Dev 1.284

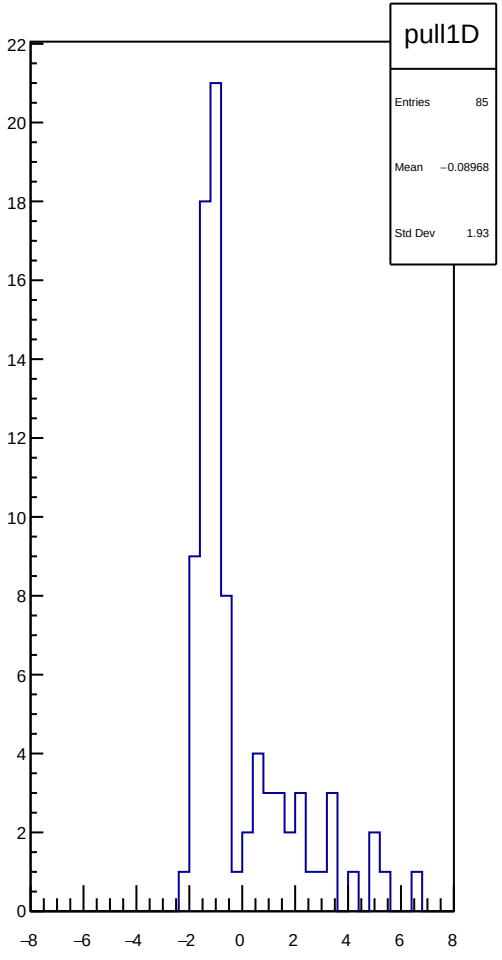

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 8.141 / 84
p0 0.2524 ± 0.0359
pull
Entries 85
Mean −825.9
Std Dev 0

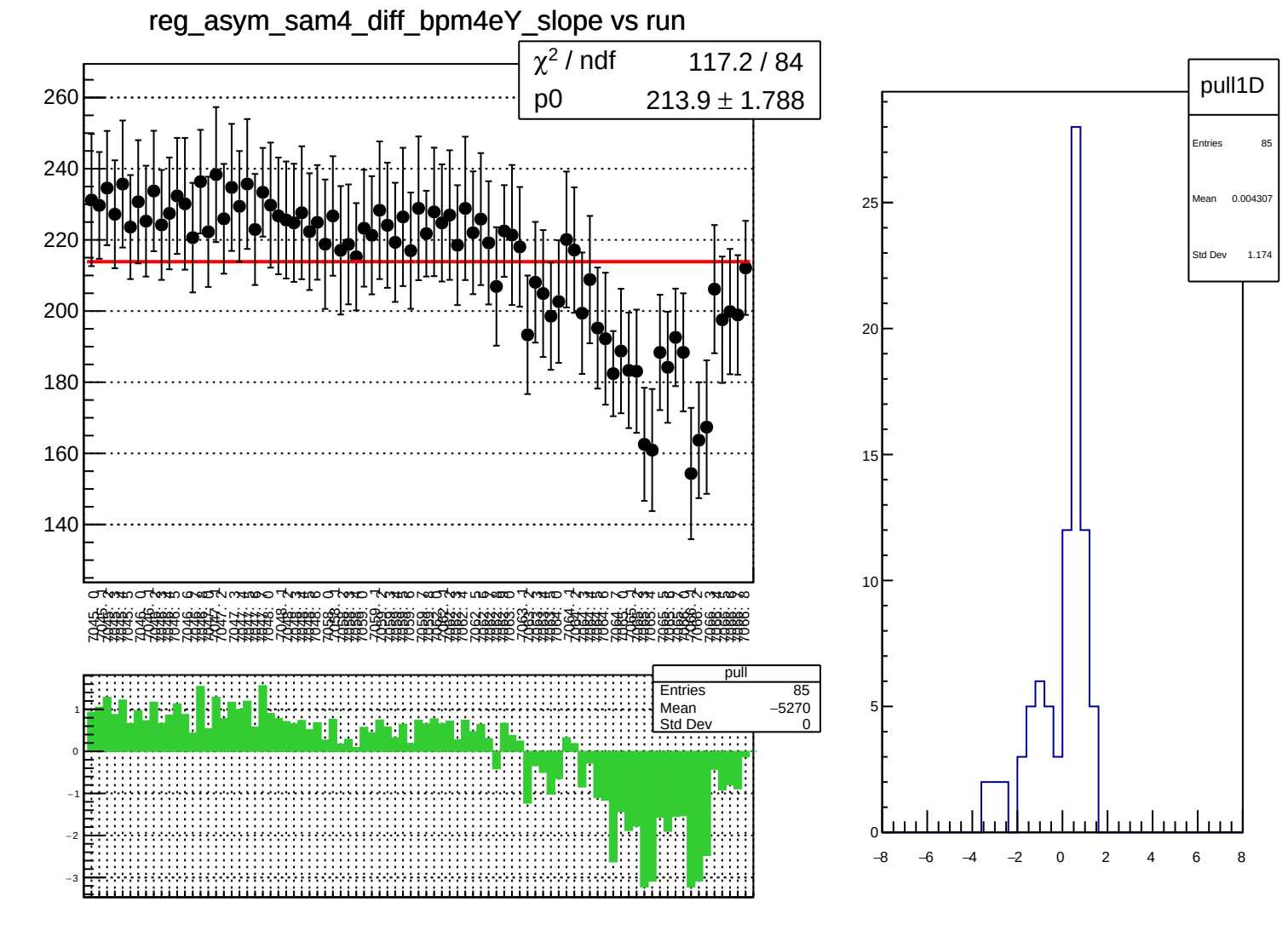

pull1D
Entries 85
Mean 0.00603
Std Dev 0.3094

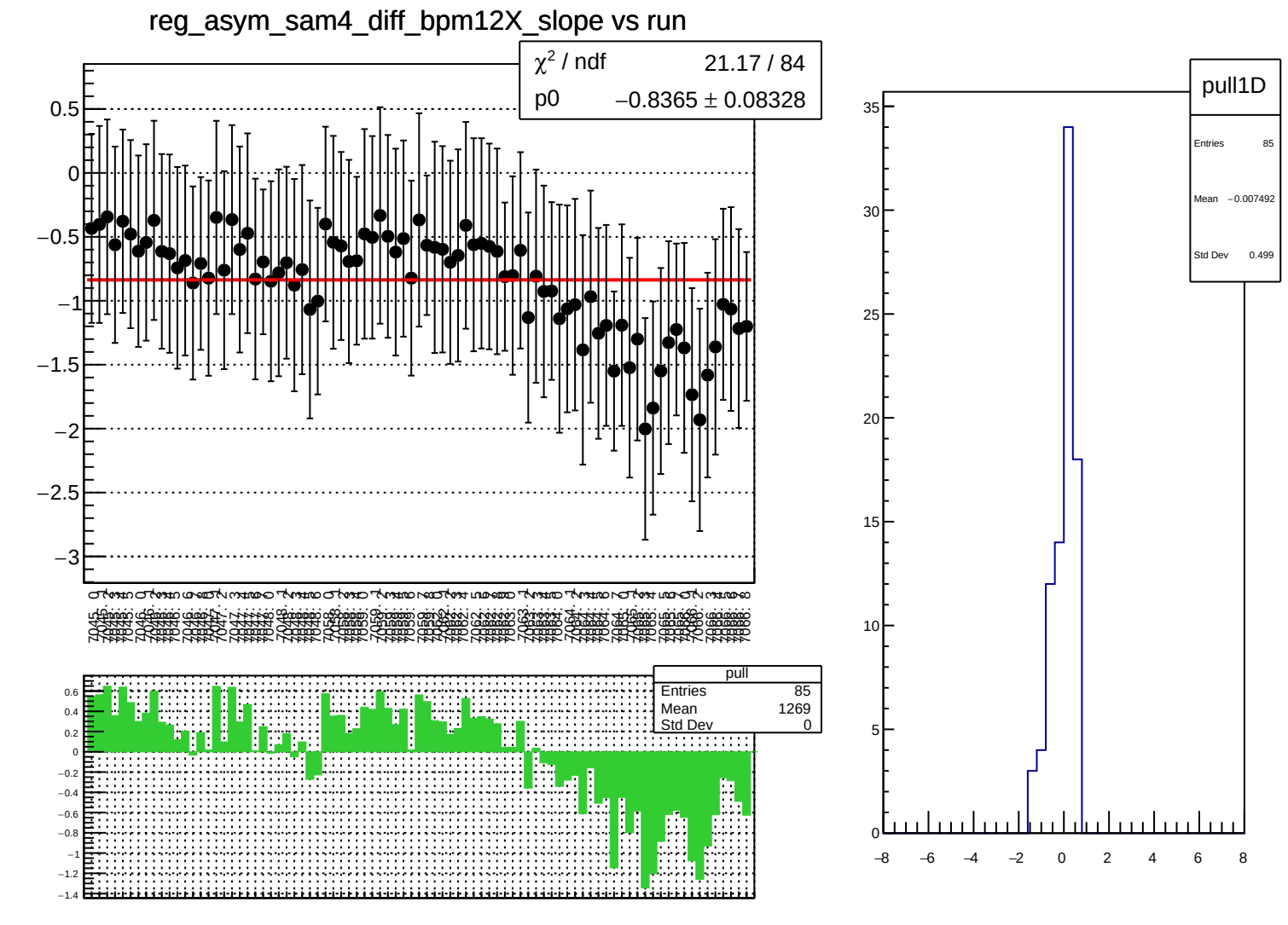

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 360.1 / 84
p0 −85.74 ± 2.505
pull
Entries 85
Mean −272.1
Std Dev 0
pull1D
Entries 85
Mean 0.1179
Std Dev 2.055

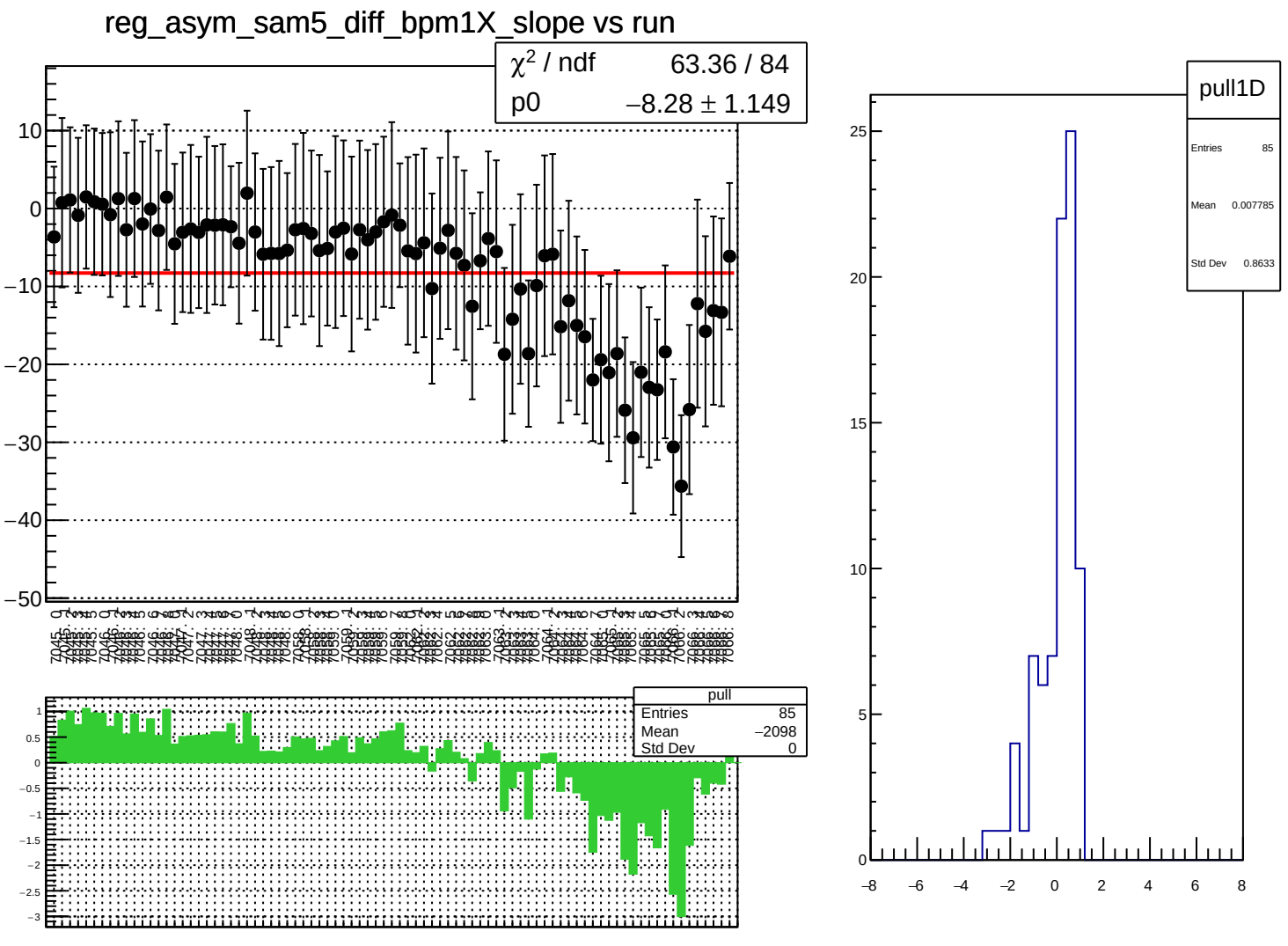

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 131.1 / 84
p0 18.73 ± 1.679
pull
Entries 85
Mean −6247
Std Dev 0
pull1D
Entries 85
Mean −0.003807
Std Dev 1.242

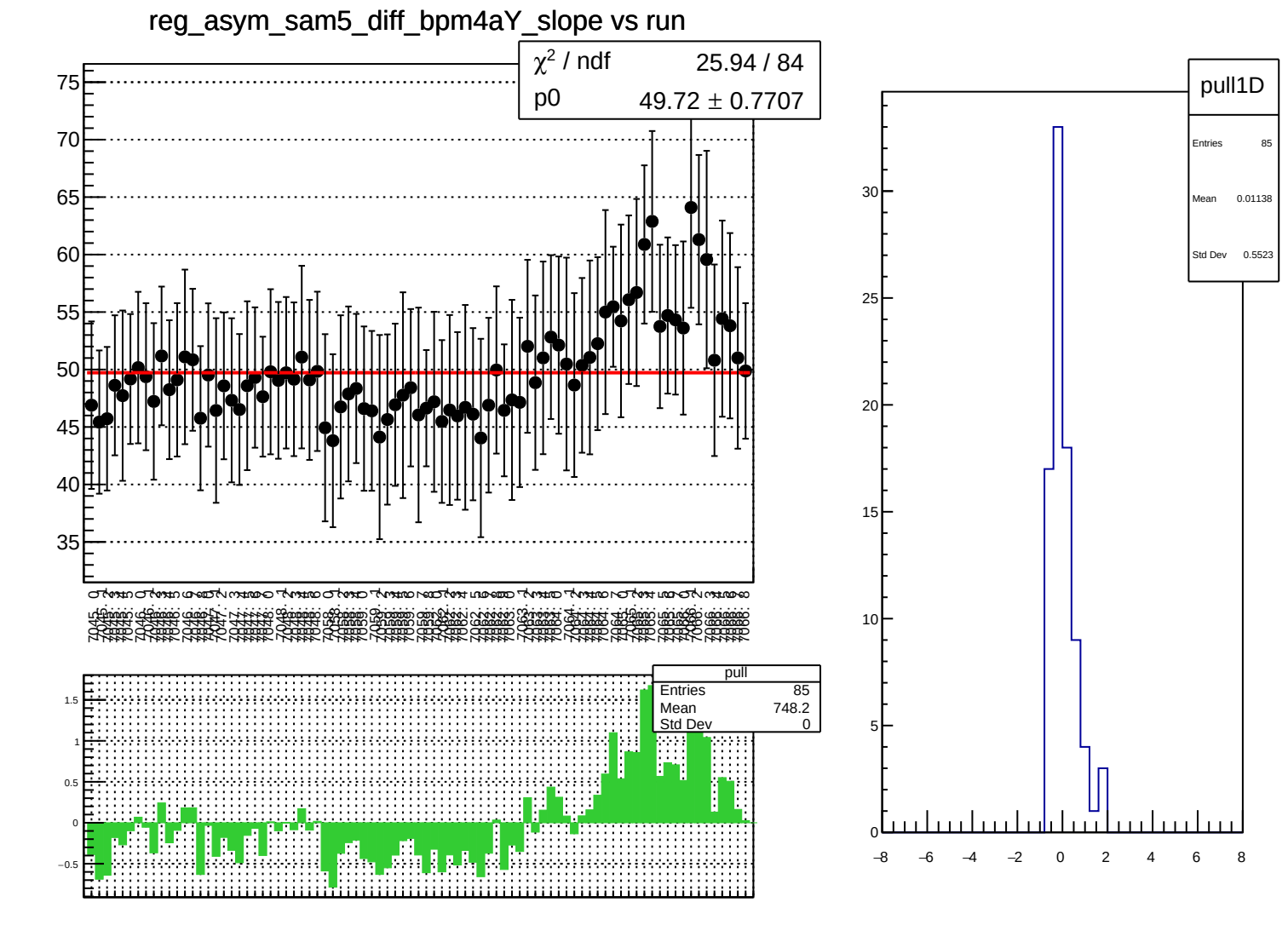

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 317.3 / 84
p0 −107.5 ± 2.386
pull
Entries 85
Mean −359.6
Std Dev 0

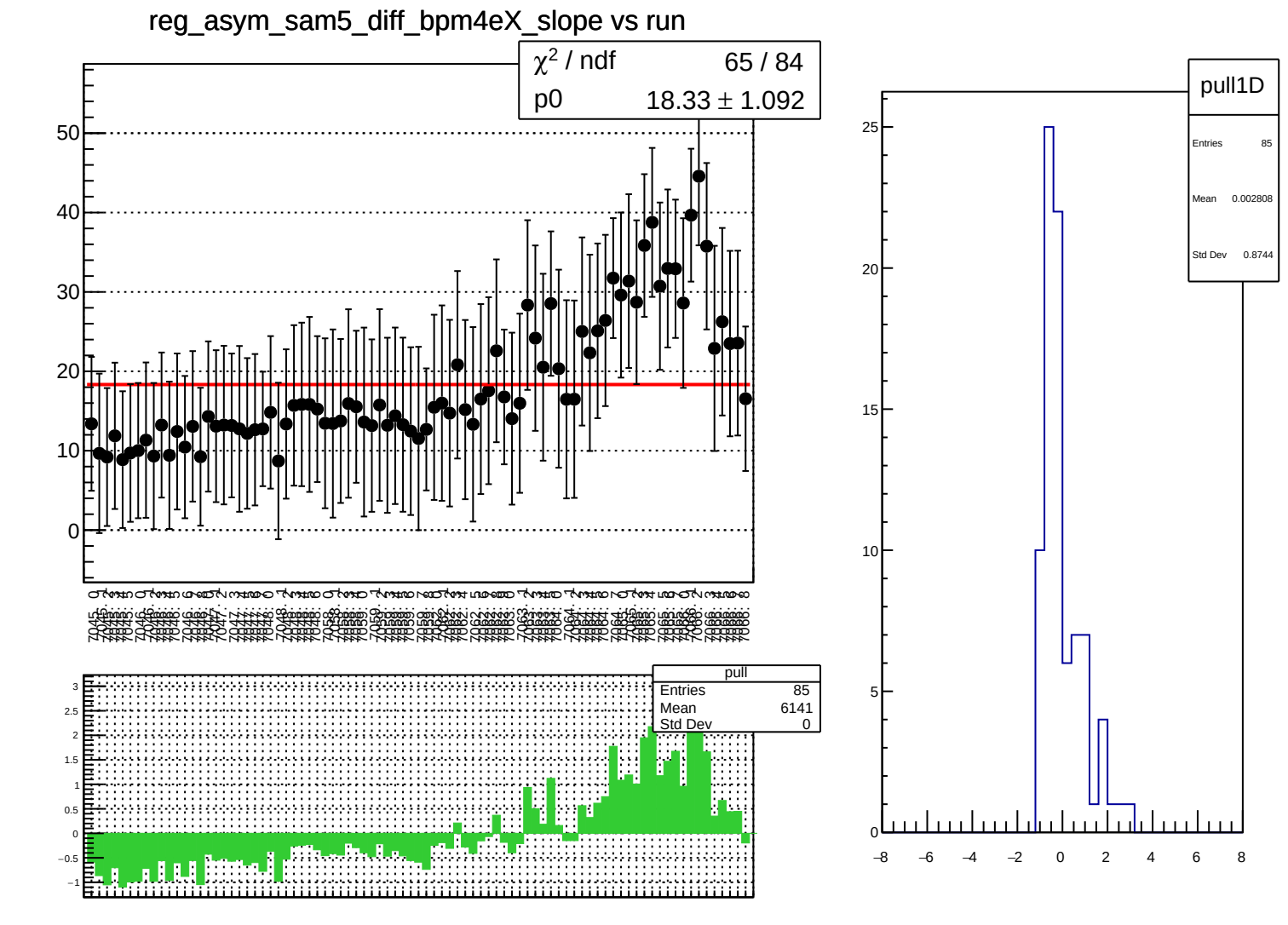

pull1D
Entries 85
Mean −0.08968
Std Dev 1.93

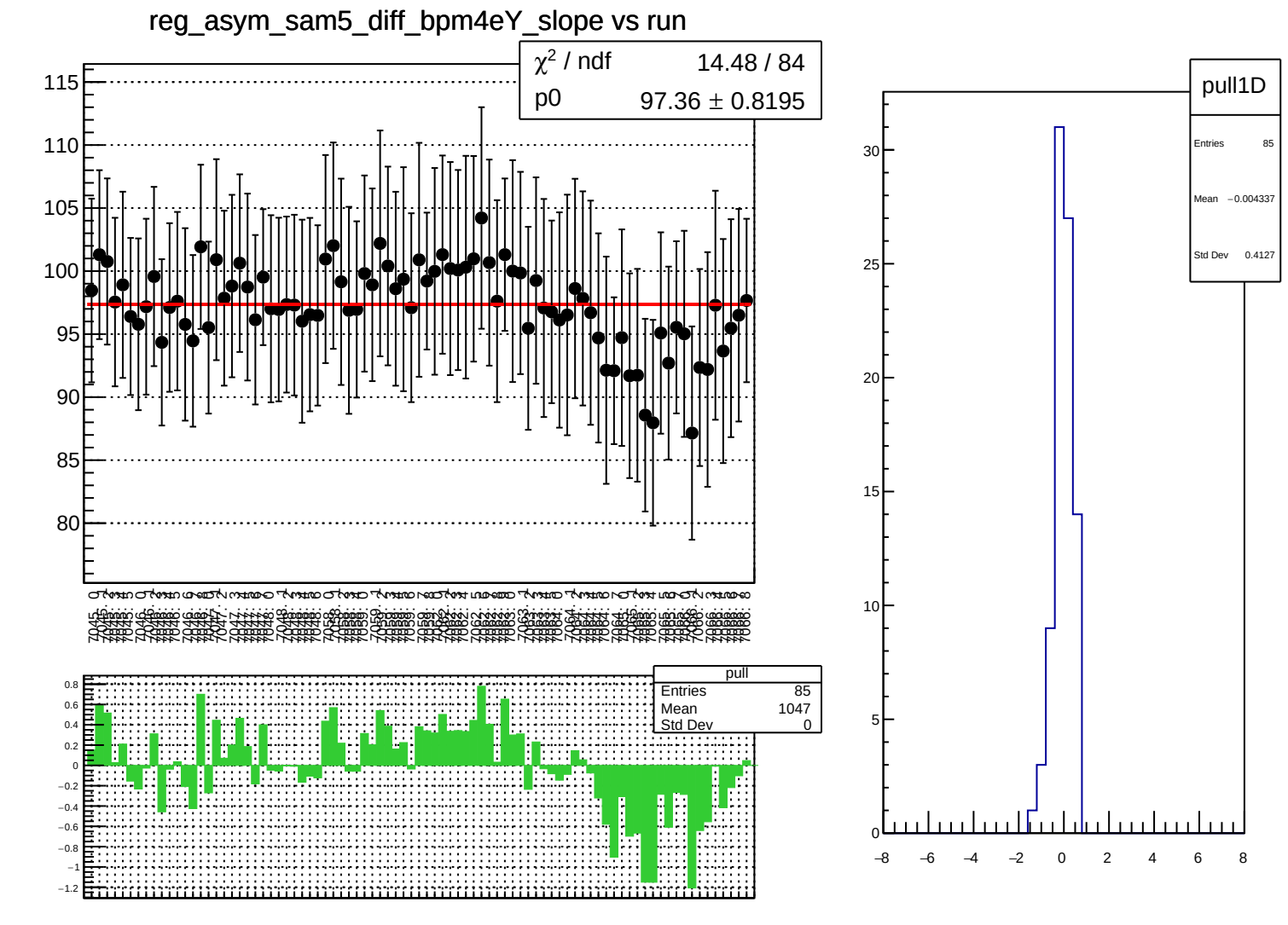

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 117.2 / 84
p0 213.9 ± 1.788
260
240
220
200
180
160
140
pull
Entries 85
Mean −5270
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.004307
Std Dev 1.174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

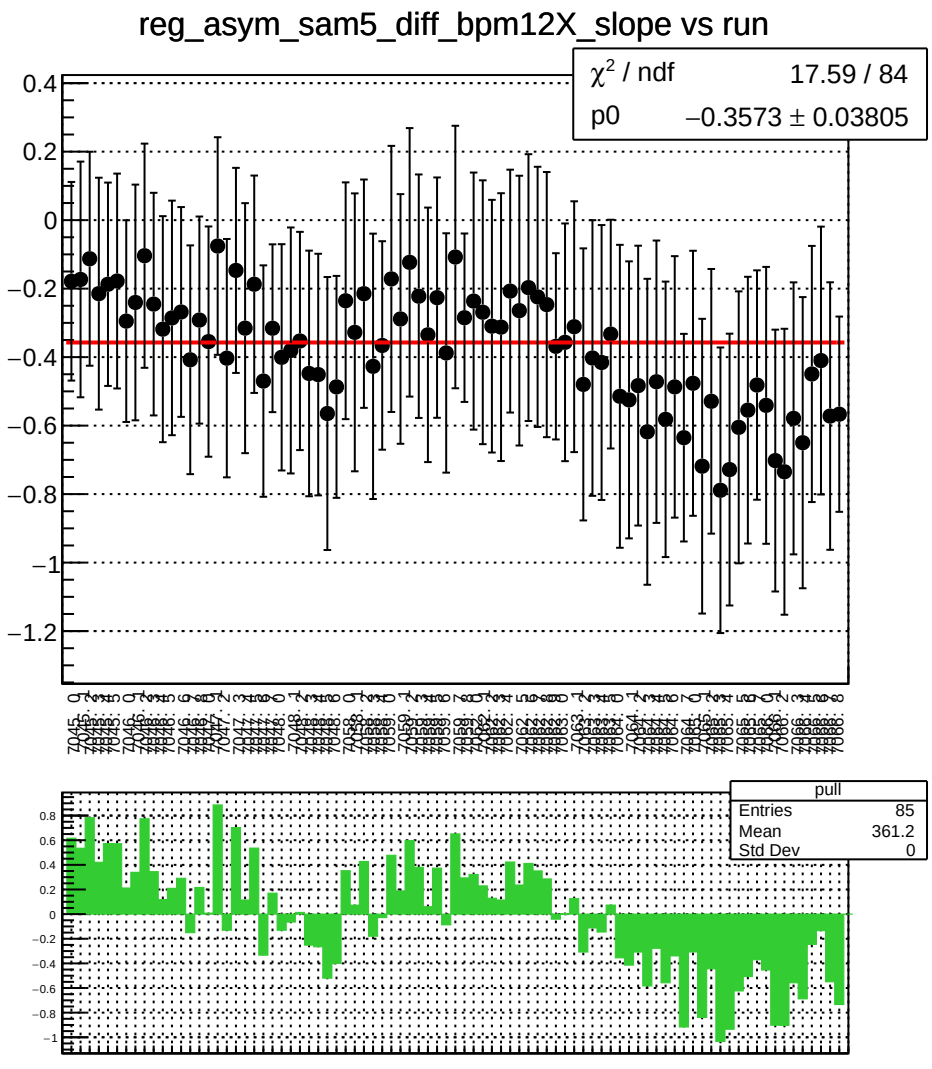

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 21.17 / 84
p0 −0.8365 ± 0.08328
pull
Entries 85
Mean 1269
Std Dev 0
pull1D
Entries 85
Mean −0.007492
Std Dev 0.499

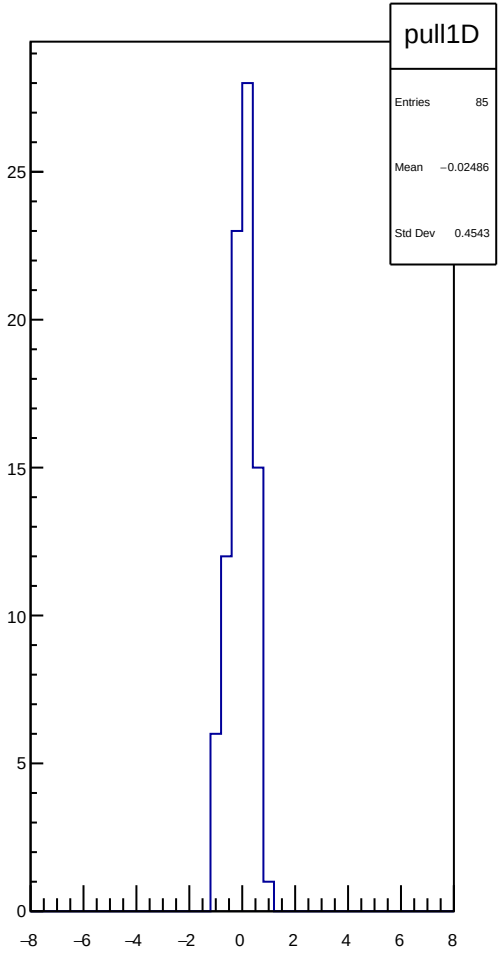

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 63.36 / 84
p0 −8.28 ± 1.149
pull
Entries 85
Mean −2098
Std Dev 0
pull1D
Entries 85
Mean 0.007785
Std Dev 0.8633

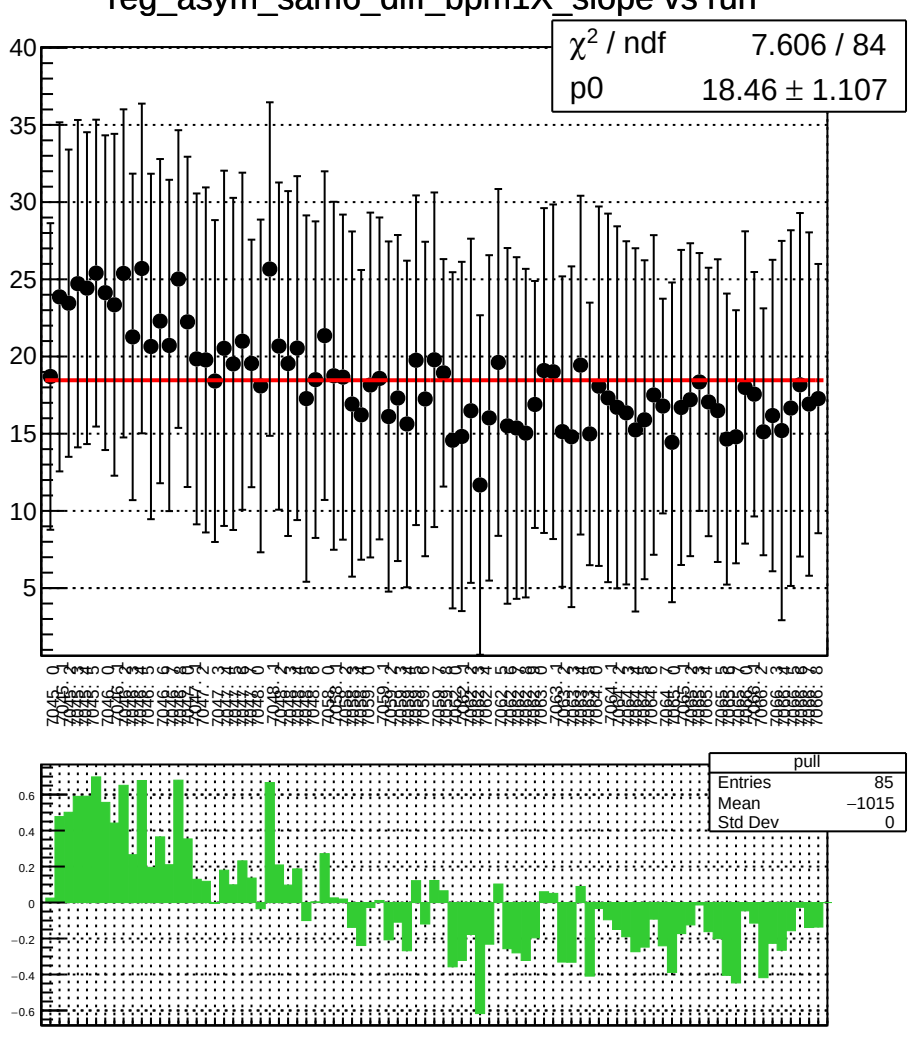

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 25.94 / 84
p0 49.72 ± 0.7707
pull
Entries 85
Mean 748.2
Std Dev 0
pull1D
Entries 85
Mean 0.01138
Std Dev 0.5523

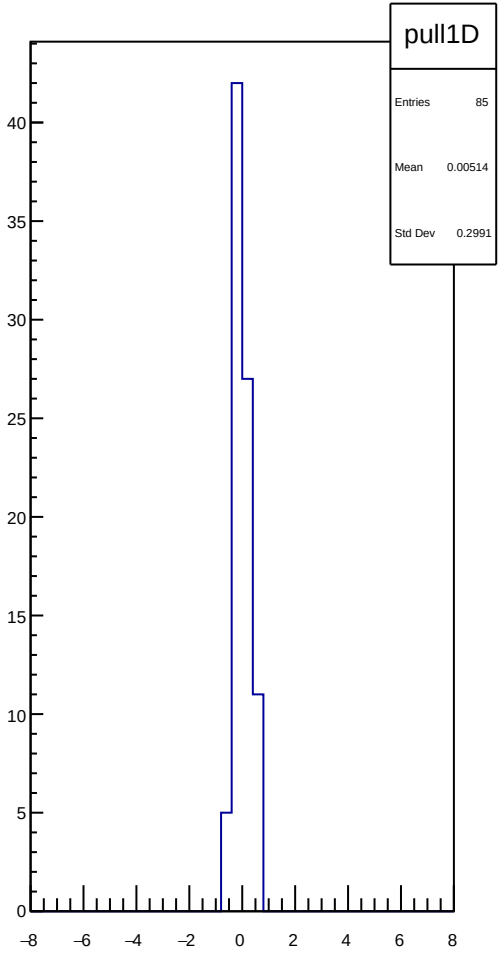

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 65 / 84
p0 18.33 ± 1.092
pull
Entries 85
Mean 6141
Std Dev 0
pull1D
Entries 85
Mean 0.002808
Std Dev 0.8744

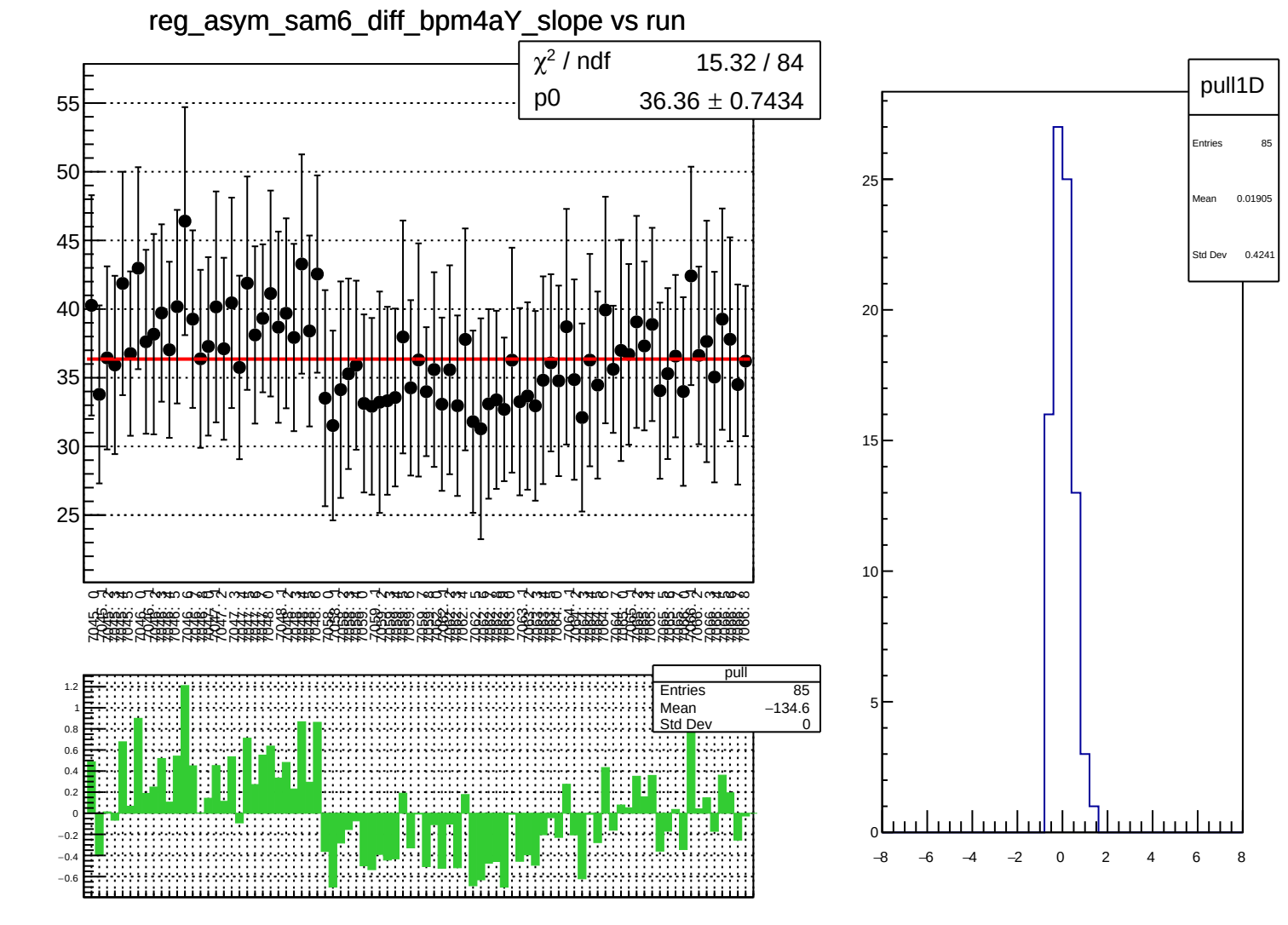

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 14.48 / 84
p0 97.36 ± 0.8195
pull
Entries 85
Mean 1047
Std Dev 0
pull1D
Entries 85
Mean −0.004337
Std Dev 0.4127

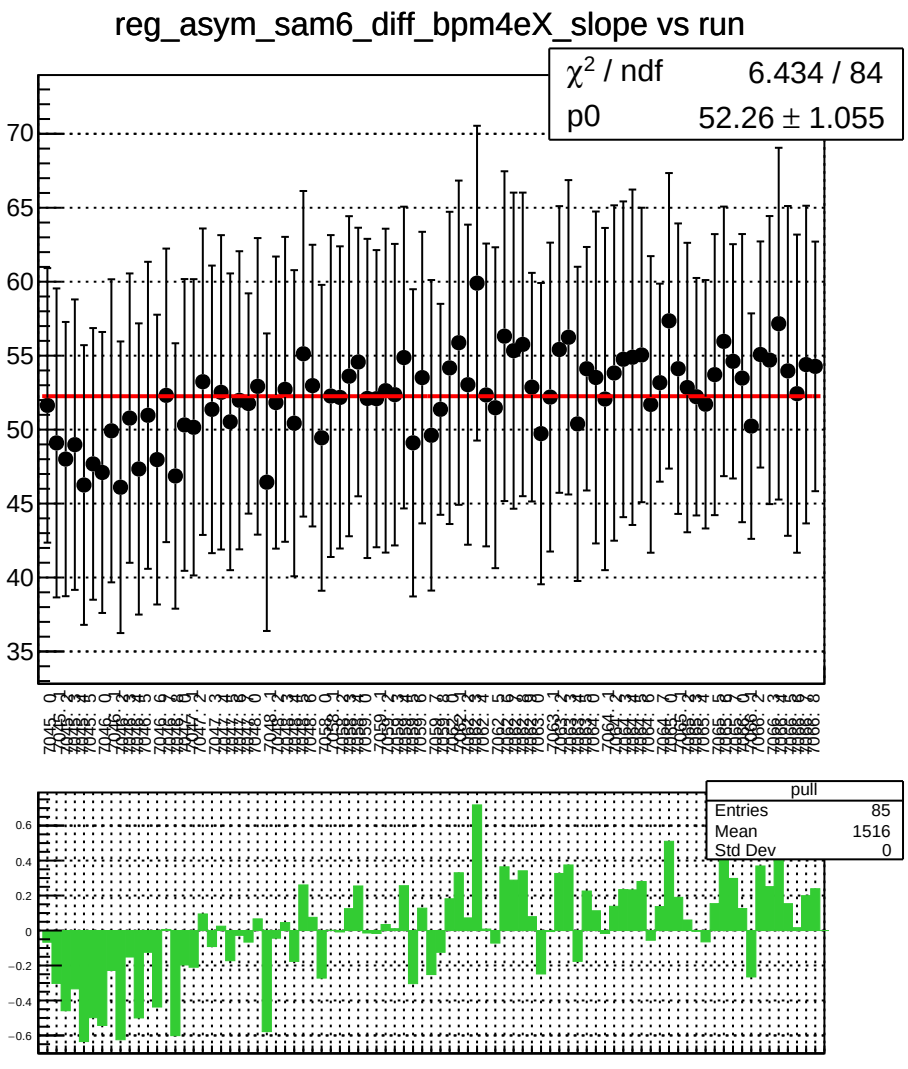

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 17.59 / 84
p0 −0.3573 ± 0.03805
pull
Entries 85
Mean 361.2
Std Dev 0

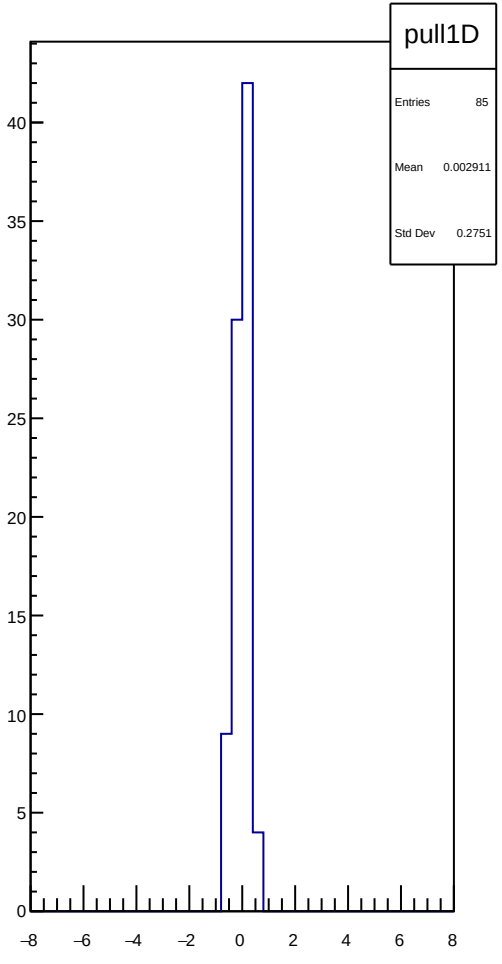

pull1D
Entries 85
Mean −0.02486
Std Dev 0.4543

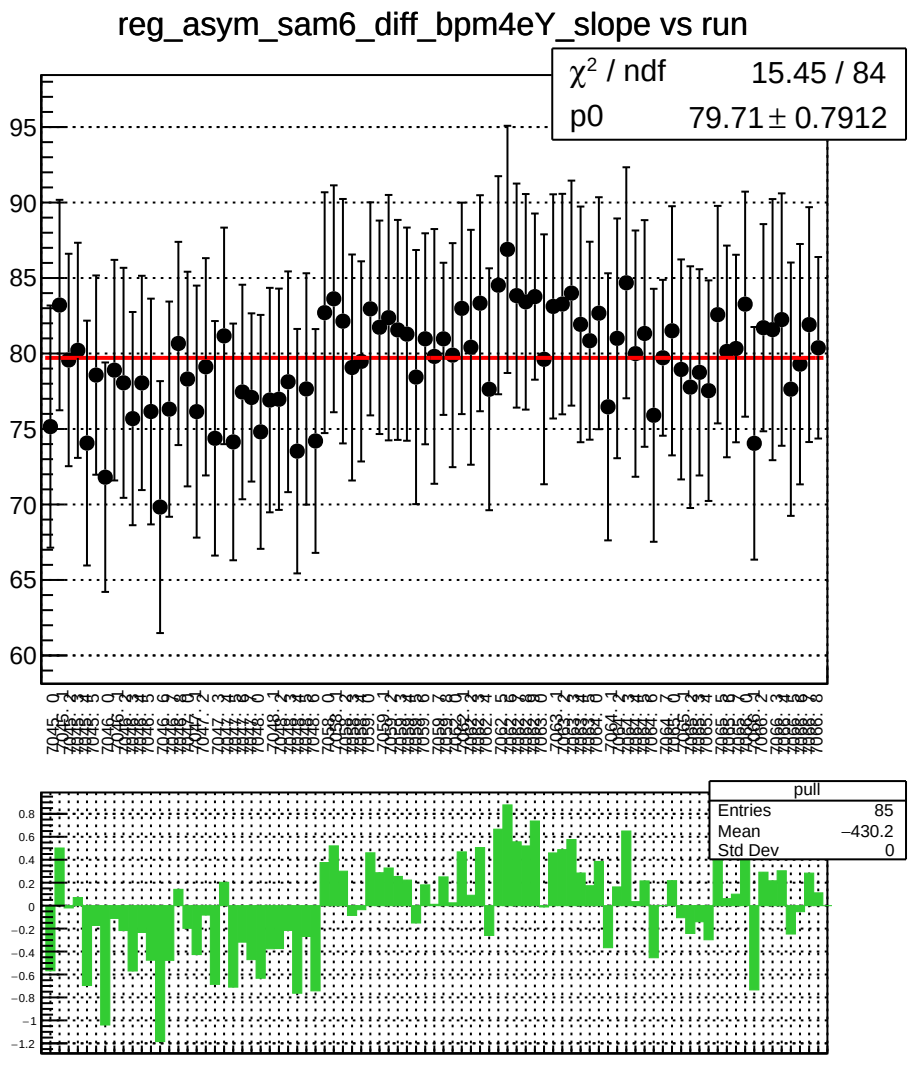

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.606 / 84
p0 18.46 ± 1.107
pull
Entries 85
Mean −1015
Std Dev 0

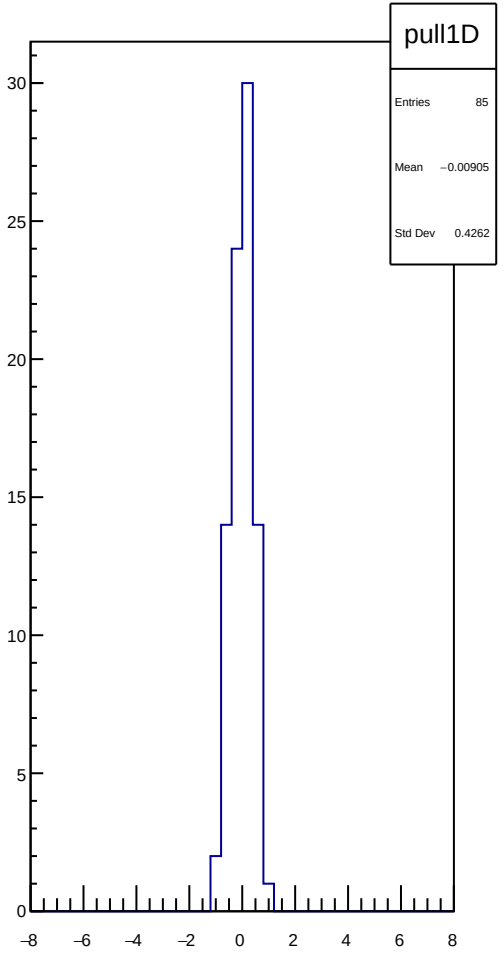

pull1D
Entries 85
Mean 0.00514
Std Dev 0.2991

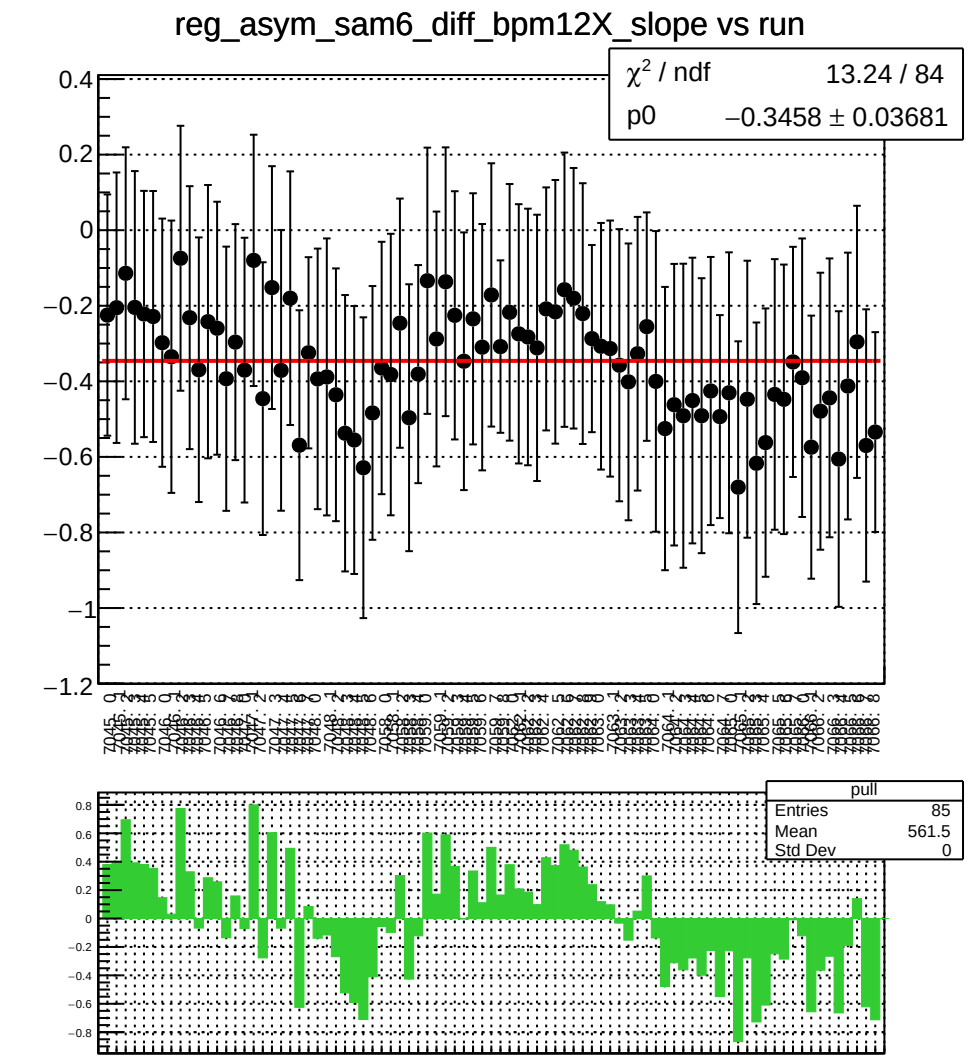

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 15.32 / 84
p0 36.36 ± 0.7434
pull
Entries 85
Mean −134.6
Std Dev 0
pull1D
Entries 85
Mean 0.01905
Std Dev 0.4241

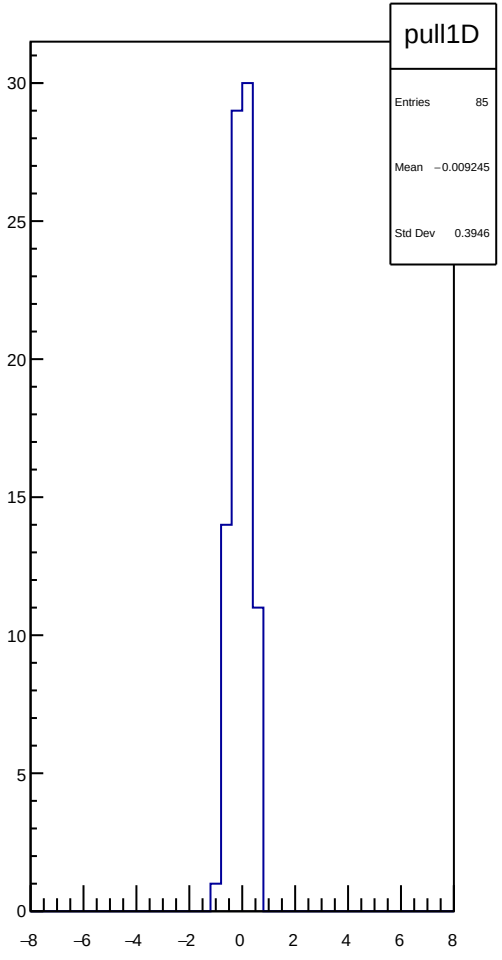

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.434 / 84
p0 52.26 ± 1.055
pull
Entries 85
Mean 1516
Std Dev 0

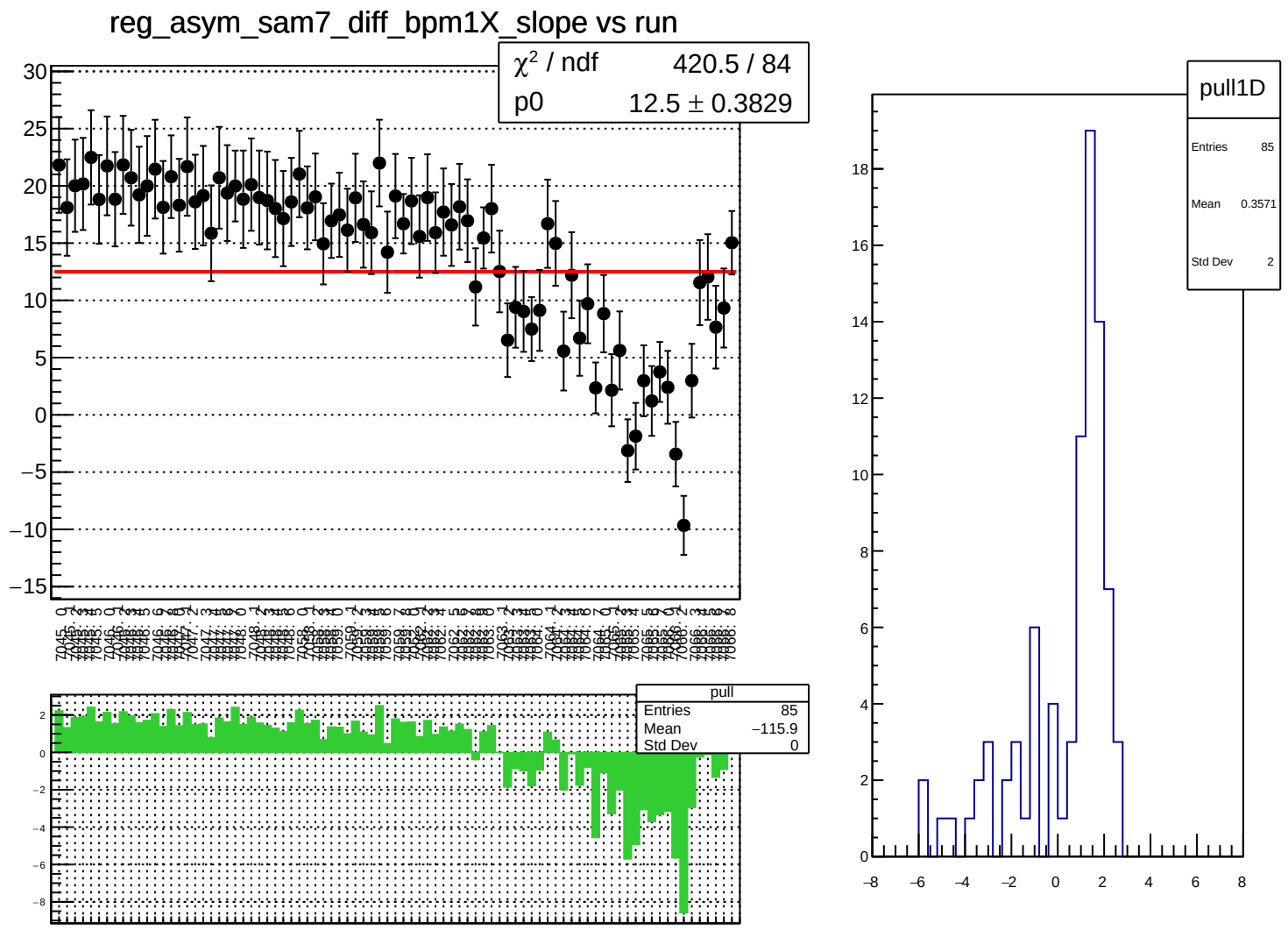

pull1D
Entries 85
Mean 0.002911
Std Dev 0.2751

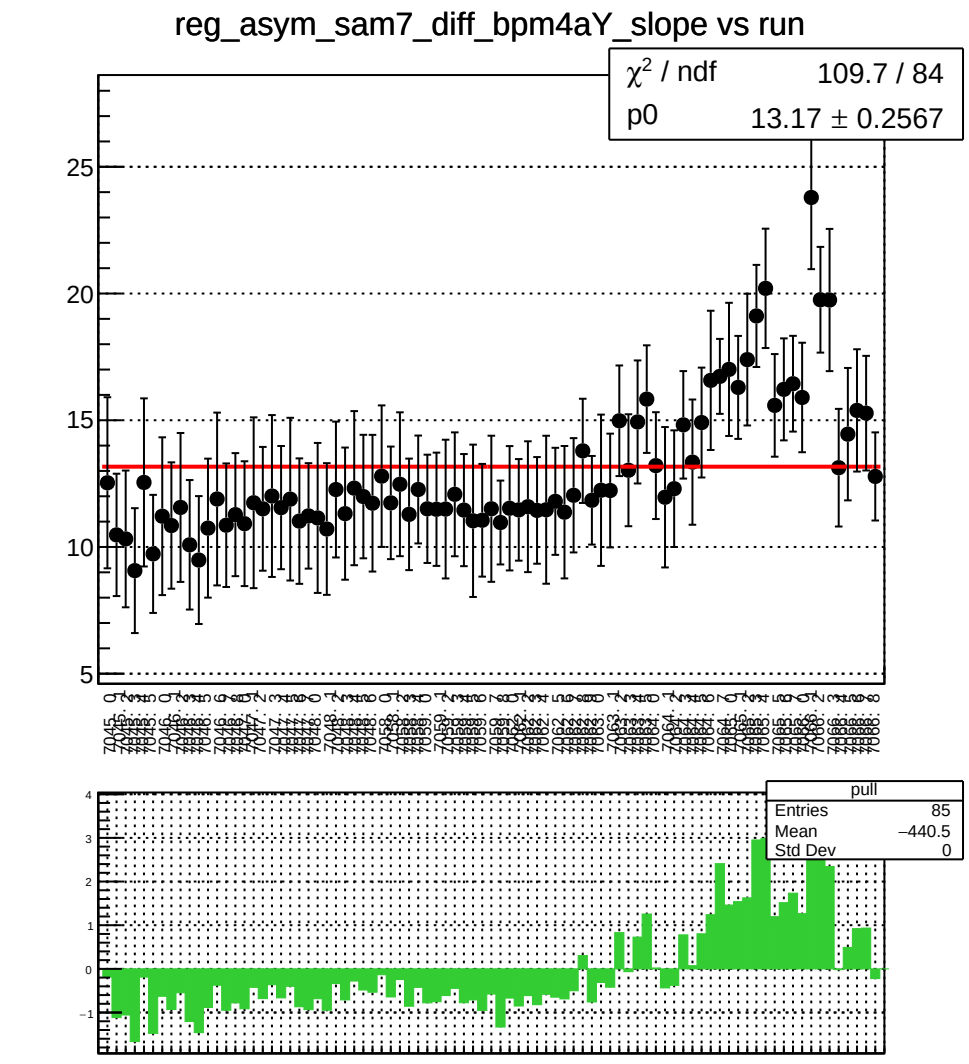

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 15.45 / 84
p0 79.71 ± 0.7912
pull
Entries 85
Mean −430.2
Std Dev 0

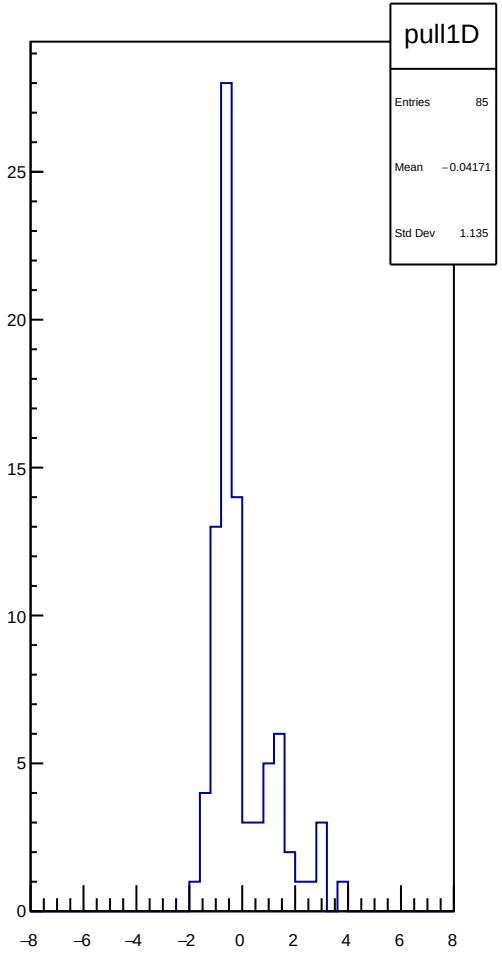

pull1D
Entries 85
Mean −0.00905
Std Dev 0.4262

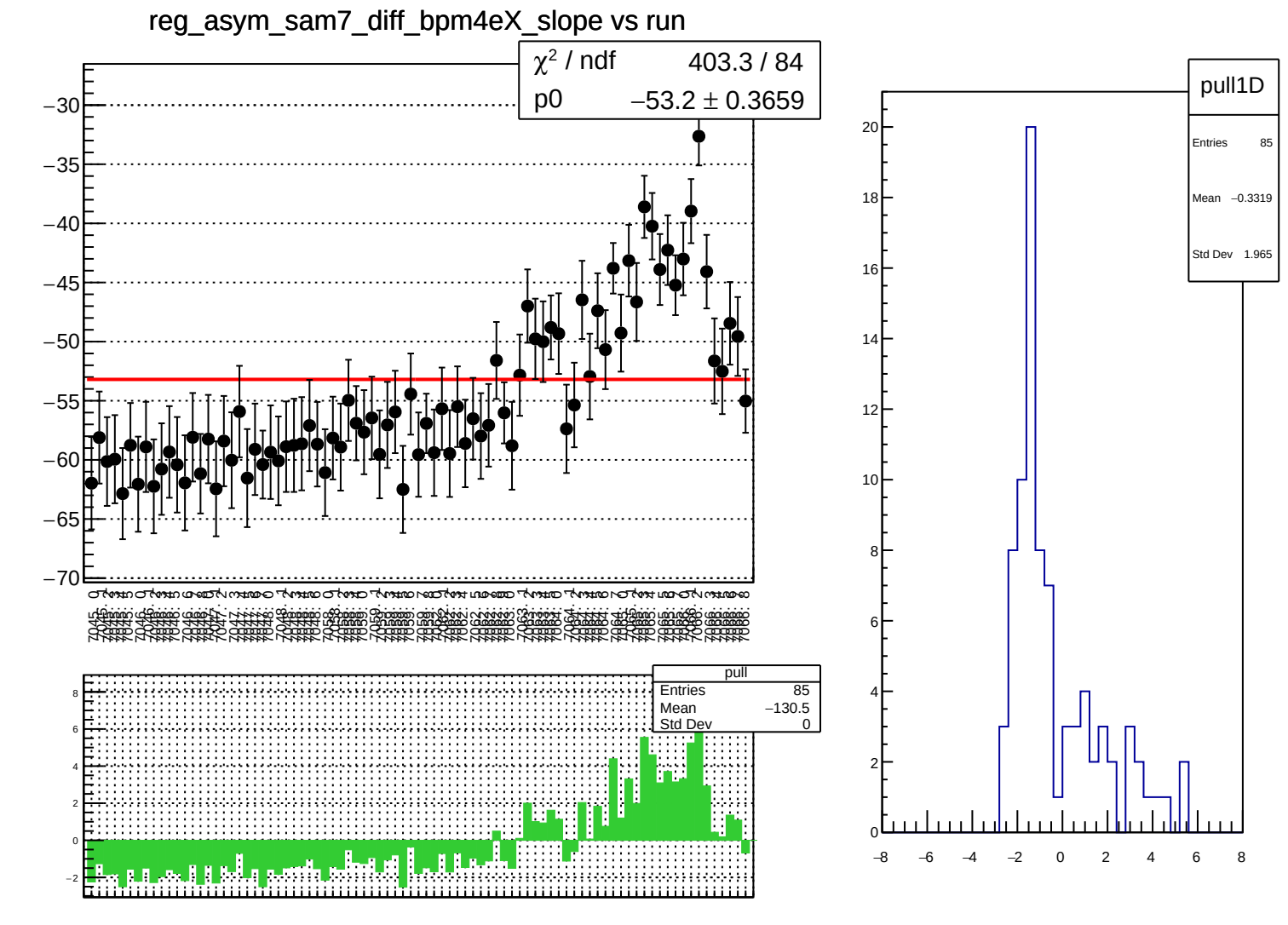

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 13.24 / 84
p0 −0.3458 ± 0.03681
pull
Entries 85
Mean 561.5
Std Dev 0

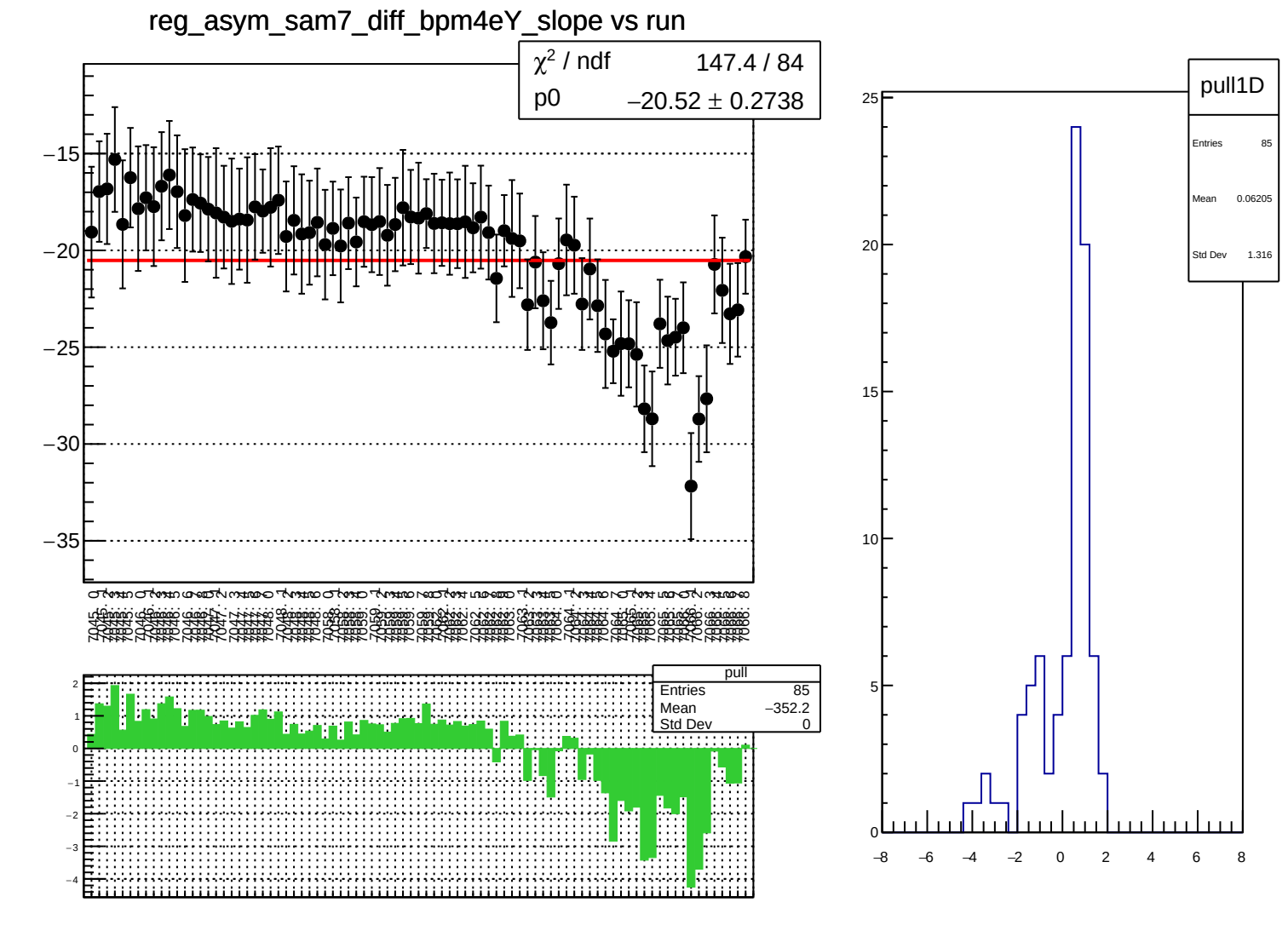

pull1D
Entries 85
Mean −0.009245
Std Dev 0.3946

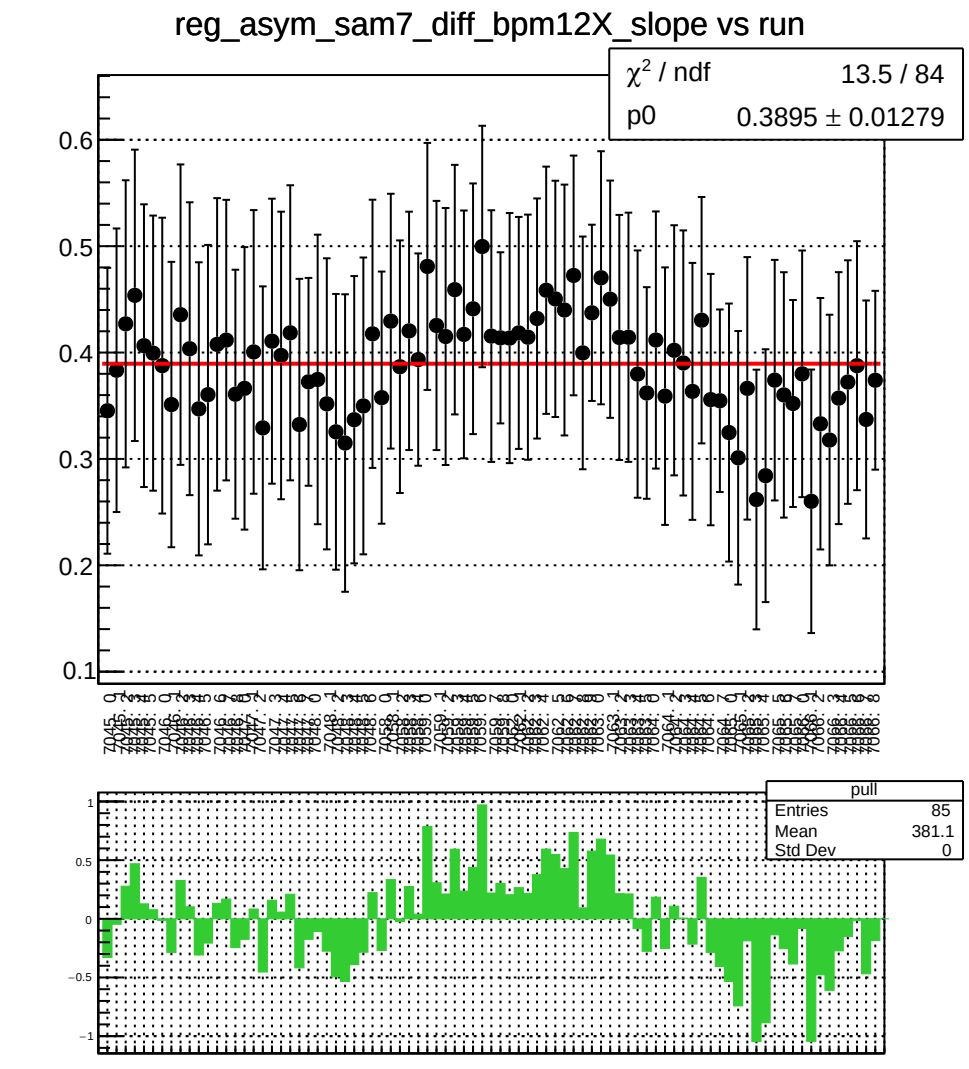

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 420.5 / 84
p0 12.5 ± 0.3829
pull
Entries 85
Mean −115.9
Std Dev 0
pull1D
Entries 85
Mean 0.3571
Std Dev 2

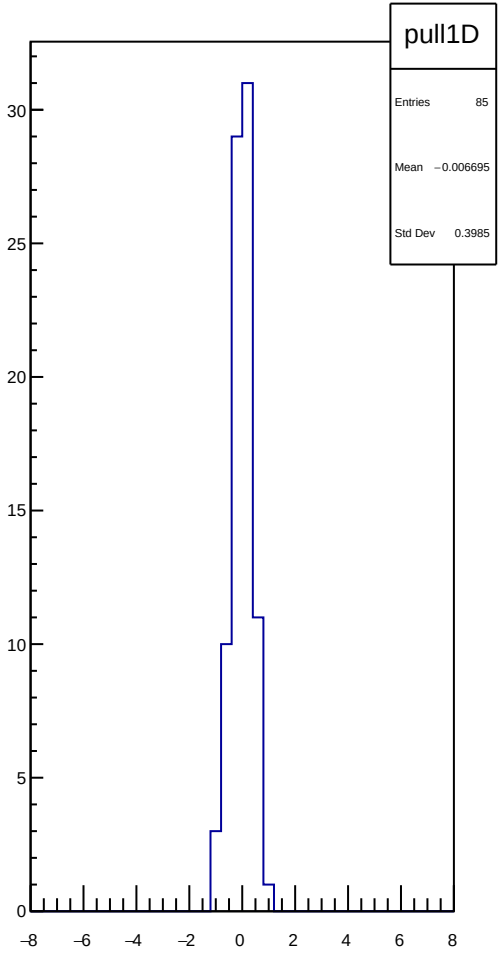

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 109.7 / 84
p0 13.17 ± 0.2567
pull
Entries 85
Mean −440.5
Std Dev 0

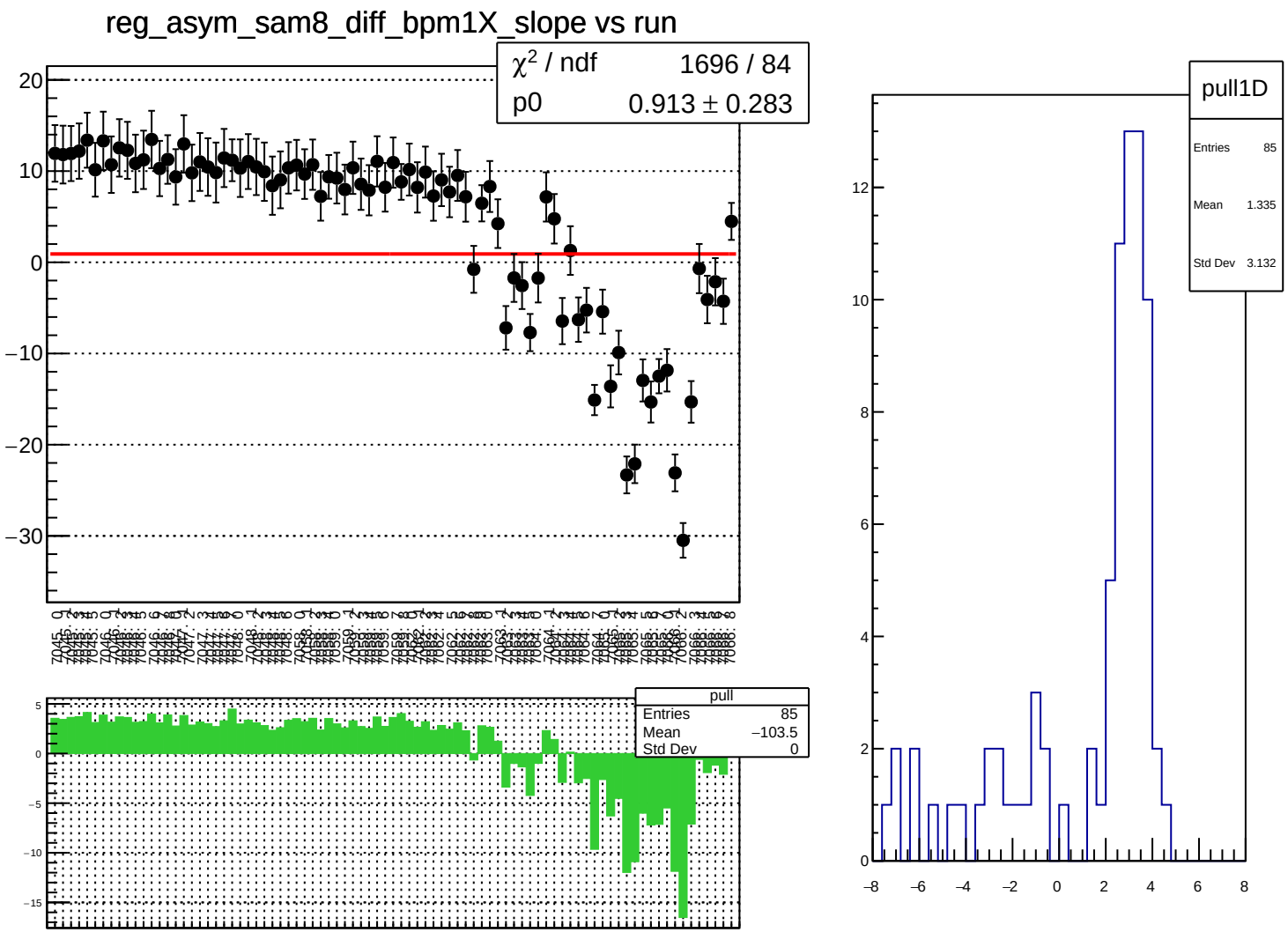

pull1D
Entries 85
Mean −0.04171
Std Dev 1.135

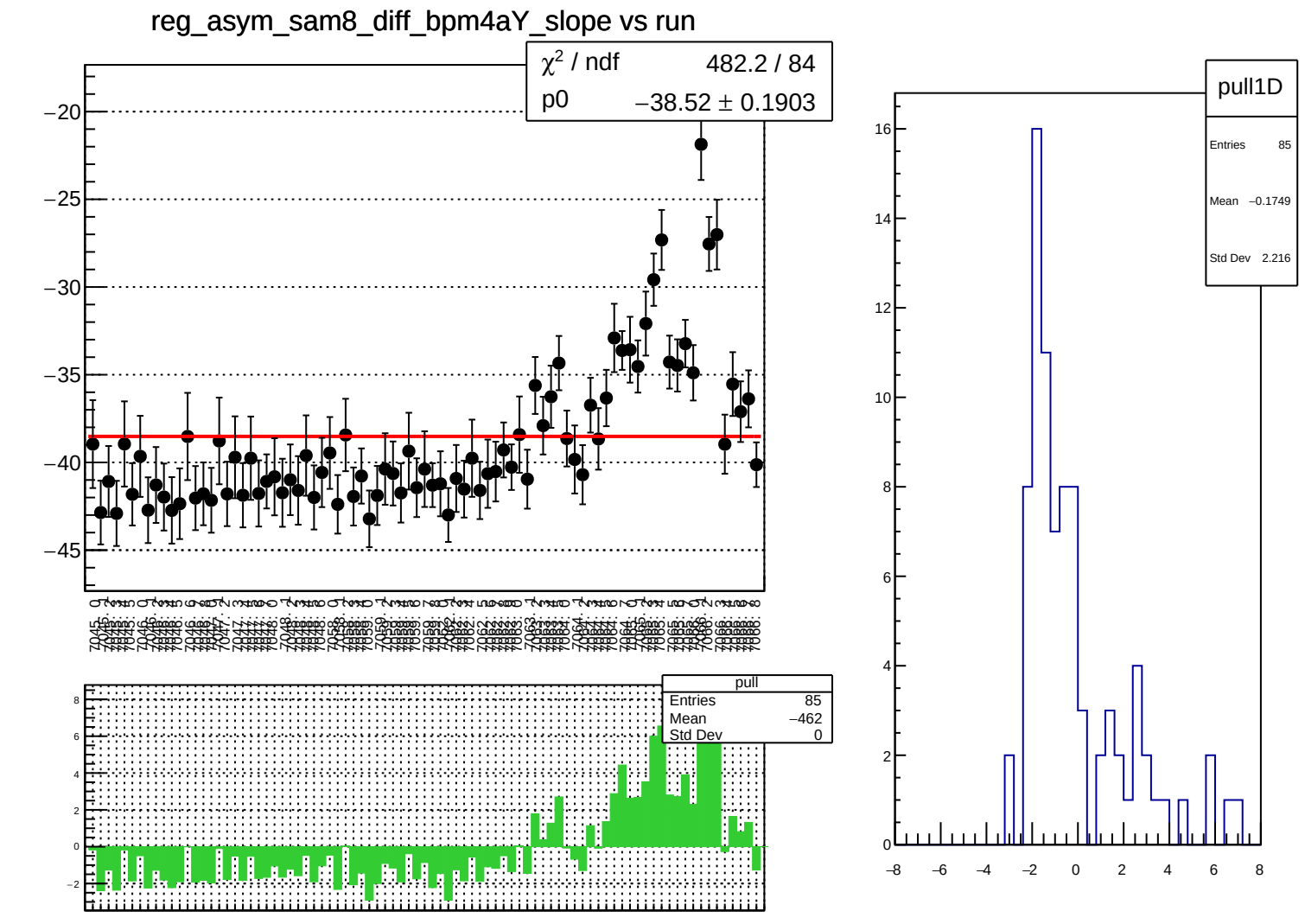

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 403.3 / 84
p0 −53.2 ± 0.3659
pull
Entries 85
Mean −130.5
Std Dev 0
pull1D
Entries 85
Mean −0.3319
Std Dev 1.965

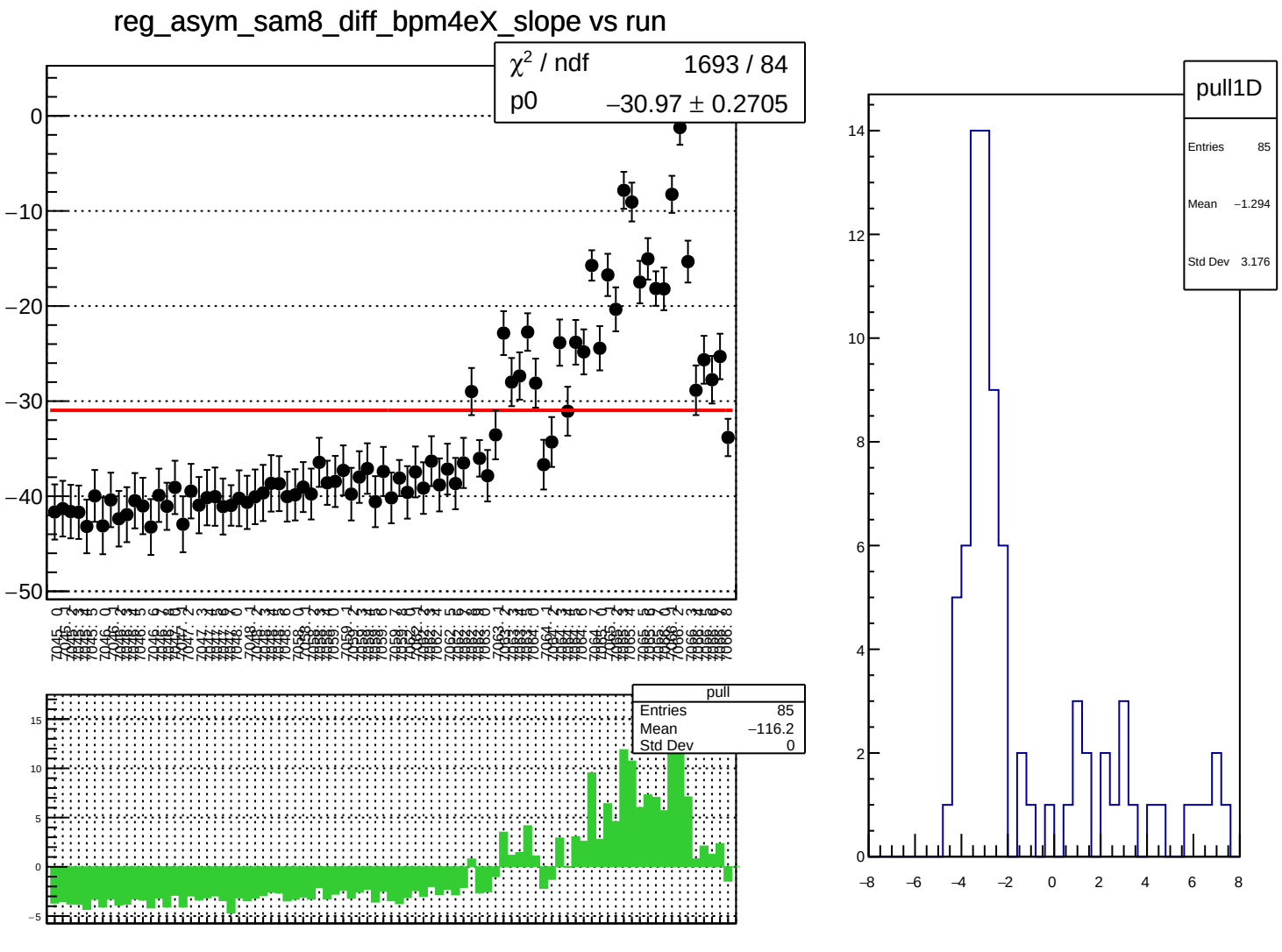

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 147.4 / 84
p0 −20.52 ± 0.2738
−15
−20
−25
−30
−35
pull
Entries 85
Mean −352.2
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 85
Mean 0.06205
Std Dev 1.316
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

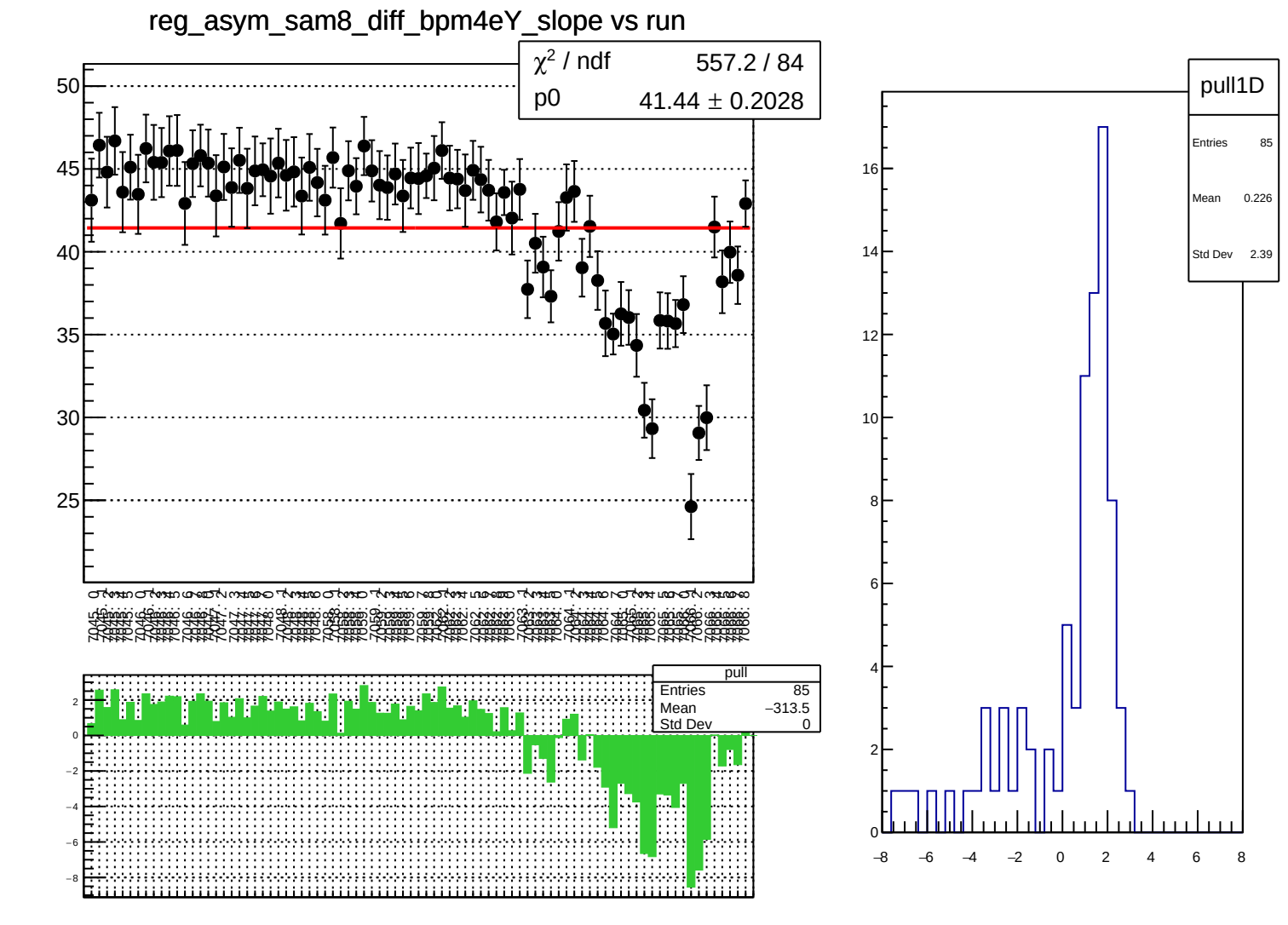

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 13.5 / 84
p0 0.3895 ± 0.01279
pull
Entries 85
Mean 381.1
Std Dev 0

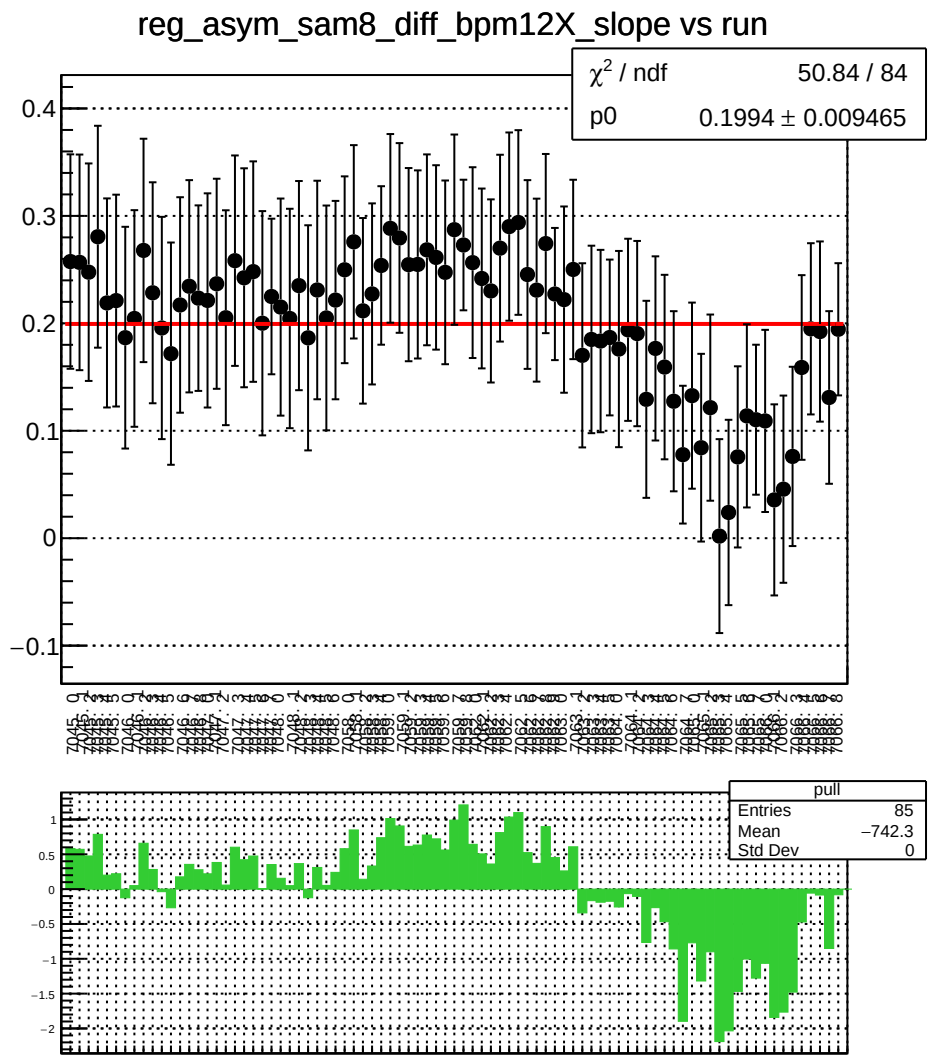

pull1D
Entries 85
Mean −0.006695
Std Dev 0.3985

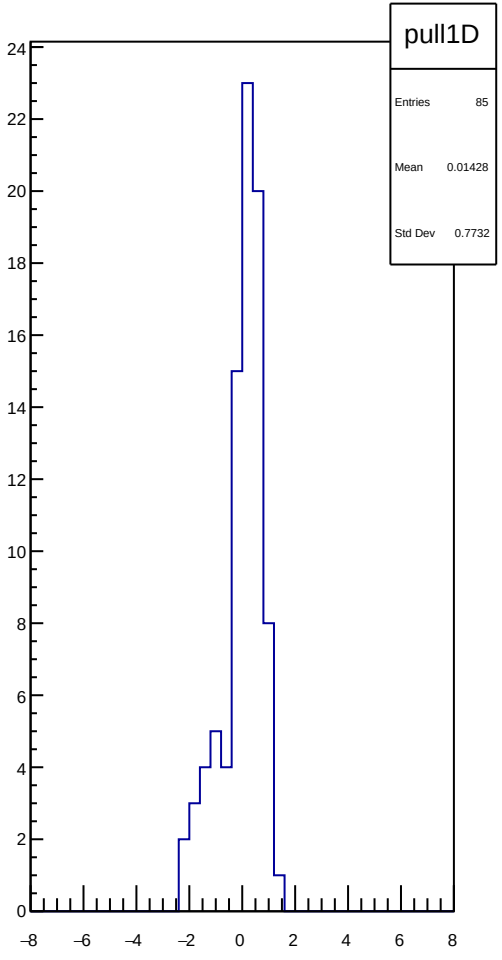

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1696 / 84
p0 0.913 ± 0.283
pull
Entries 85
Mean −103.5
Std Dev 0
pull1D
Entries 85
Mean 1.335
Std Dev 3.132

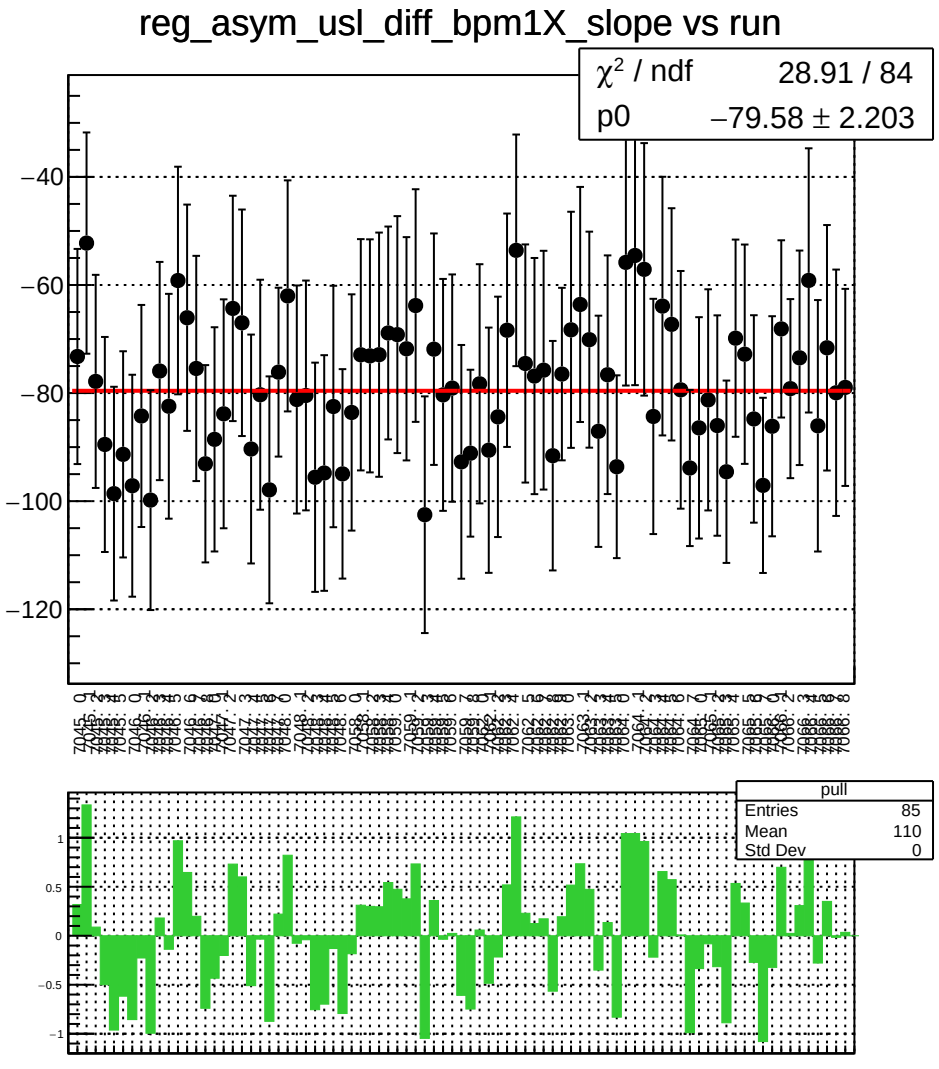

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 482.2 / 84
p0 −38.52 ± 0.1903
pull
Entries 85
Mean −462
Std Dev 0
pull1D
Entries 85
Mean −0.1749
Std Dev 2.216

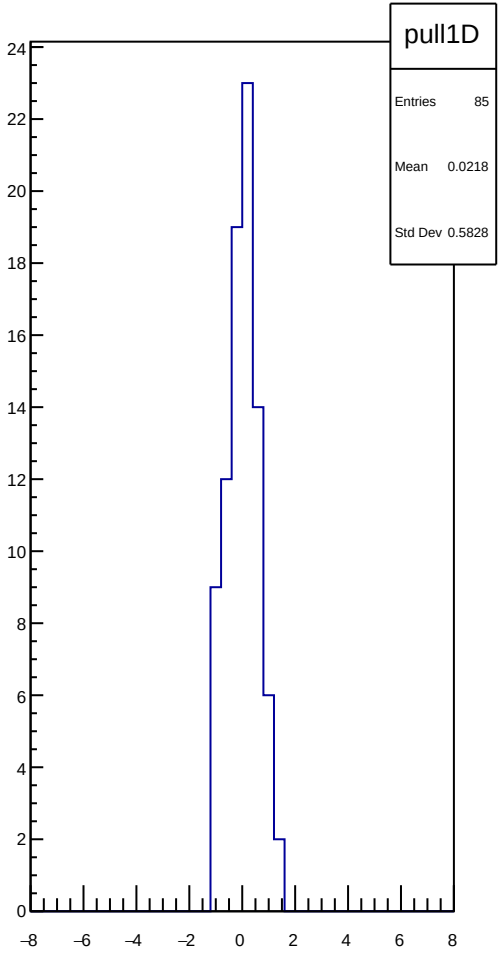

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1693 / 84
p0 −30.97 ± 0.2705
pull
Entries 85
Mean −116.2
Std Dev 0
pull1D
Entries 85
Mean −1.294
Std Dev 3.176

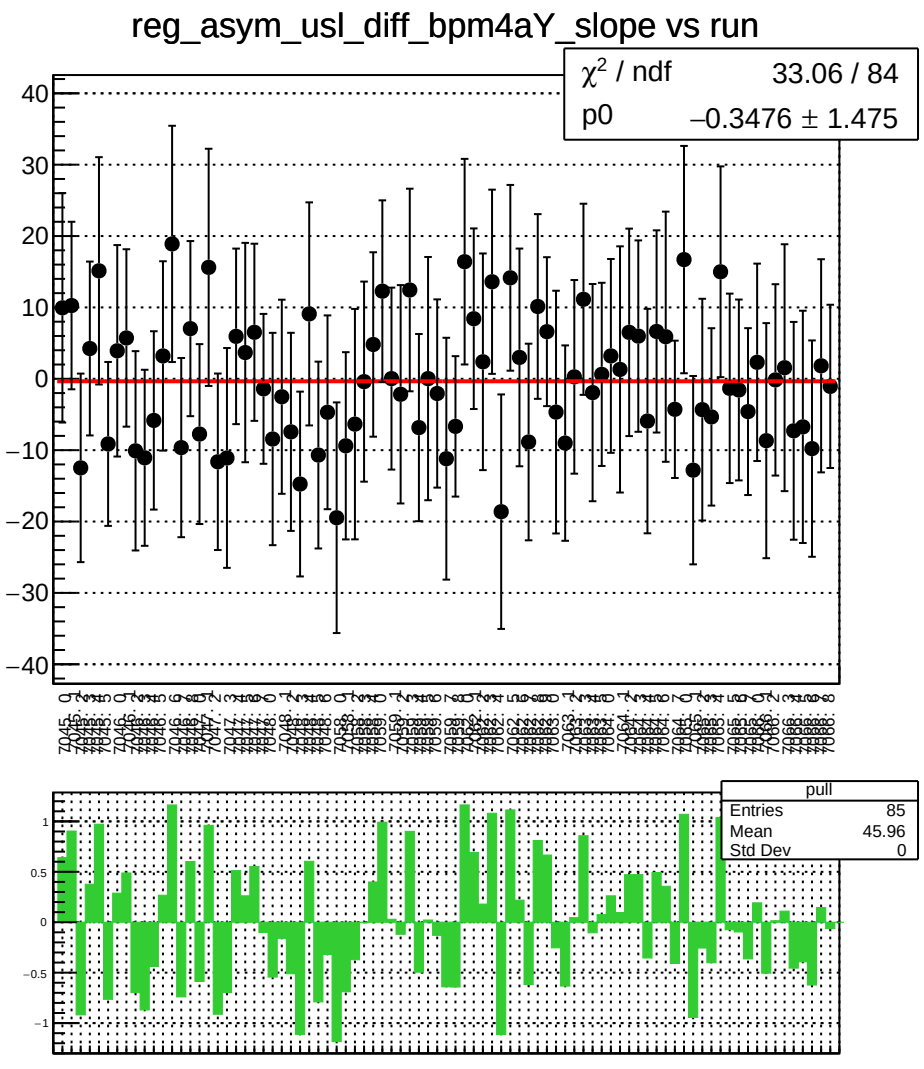

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 557.2 / 84
p0 41.44 ± 0.2028
pull
Entries 85
Mean −313.5
Std Dev 0
pull1D
Entries 85
Mean 0.226
Std Dev 2.39

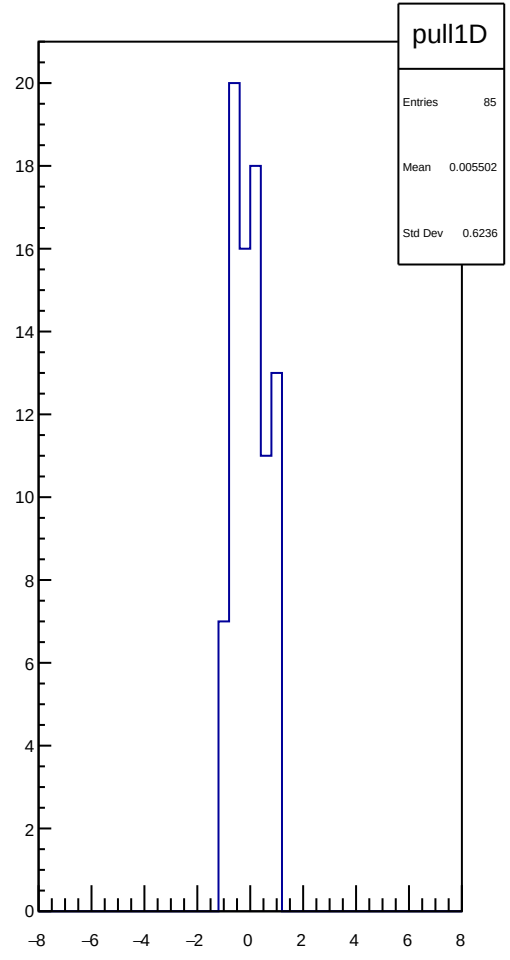

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 50.84 / 84
p0 0.1994 ± 0.009465
pull
Entries 85
Mean −742.3
Std Dev 0

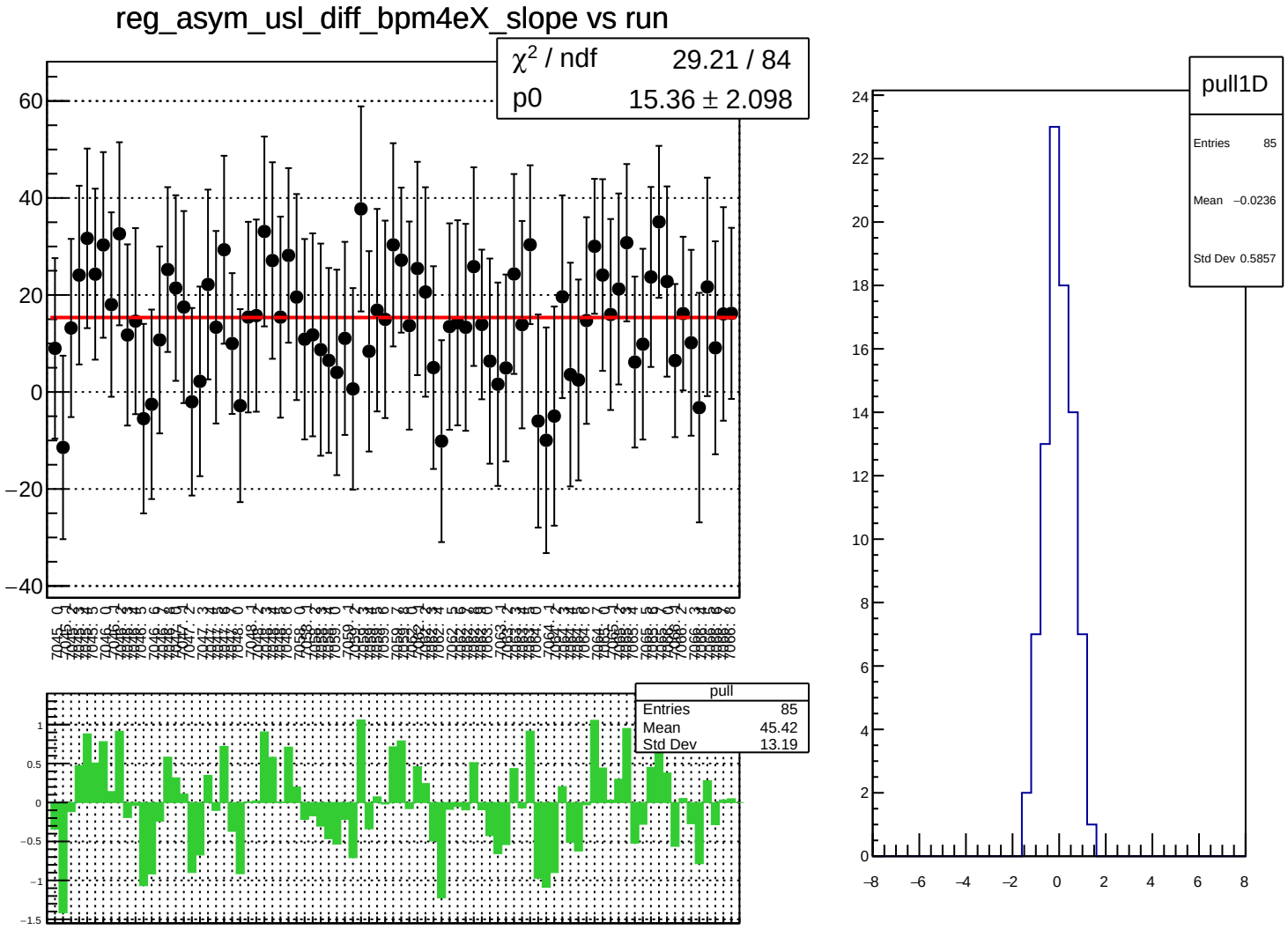

pull1D
Entries 85
Mean 0.01428
Std Dev 0.7732

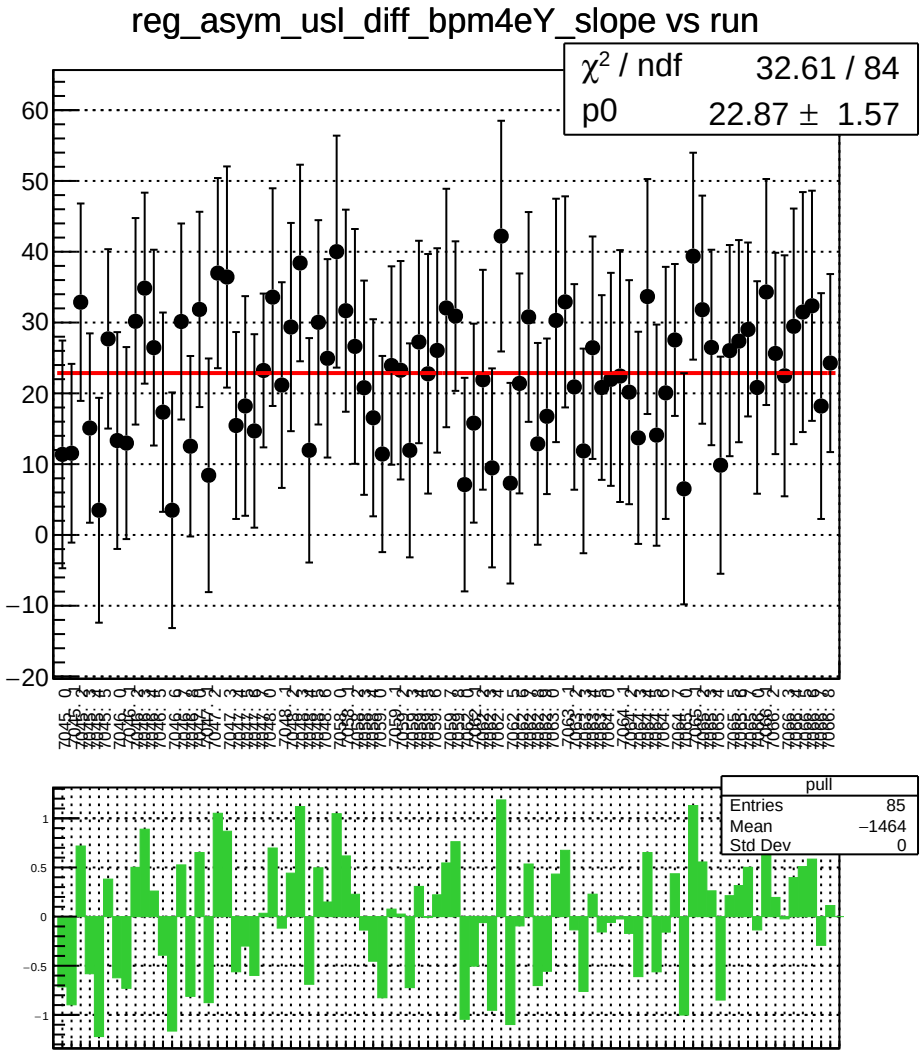

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 28.91 / 84
p0 −79.58 ± 2.203
−40
−60
−80
−100
−120
pull
Entries 85
Mean 110
Std Dev 0
1
0.5
0
−0.5
−1

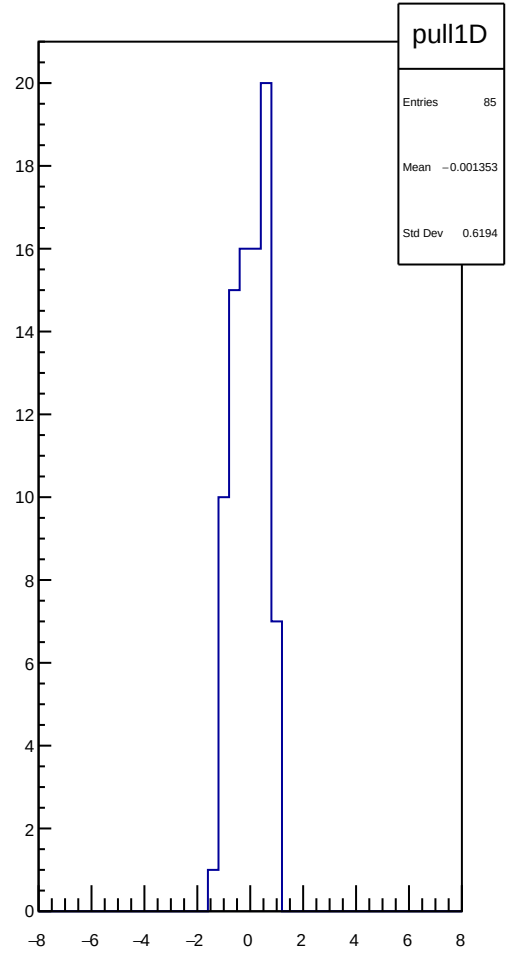

pull1D
Entries 85
Mean 0.0218
Std Dev 0.5828
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

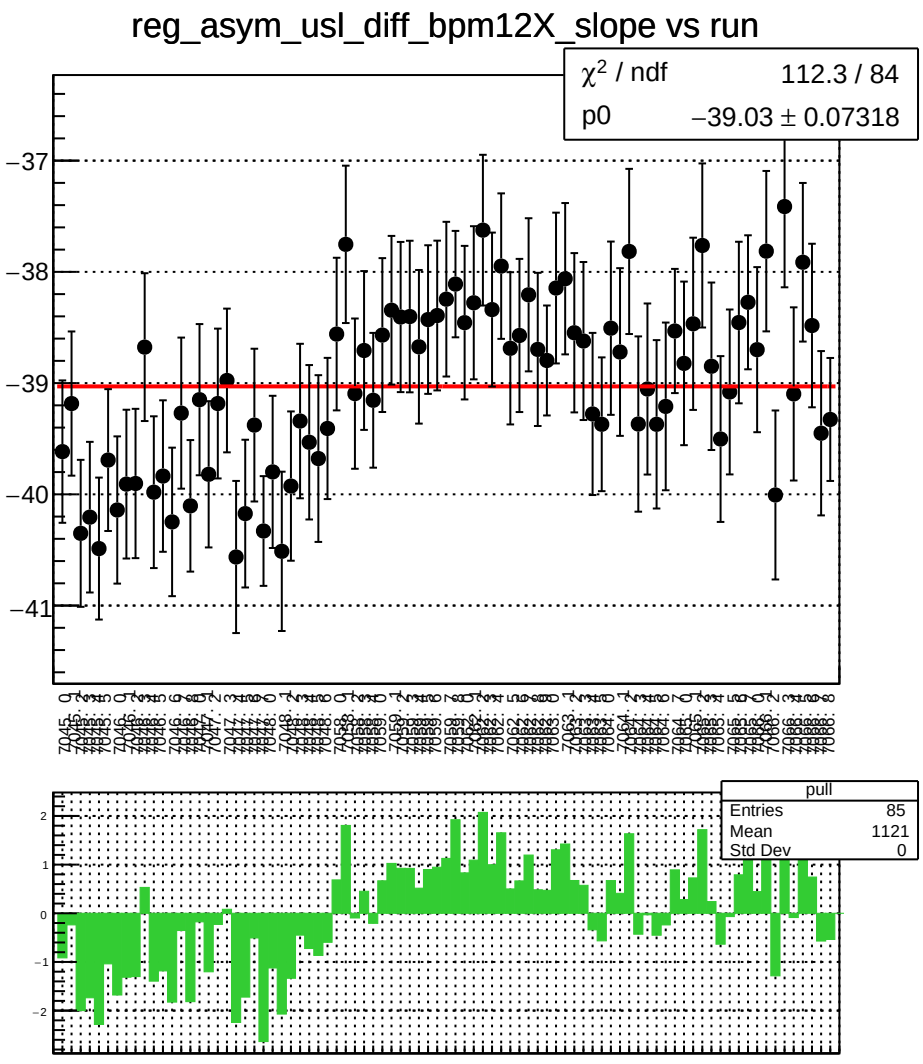

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 33.06 / 84
p0 −0.3476 ± 1.475
pull
Entries 85
Mean 45.96
Std Dev 0

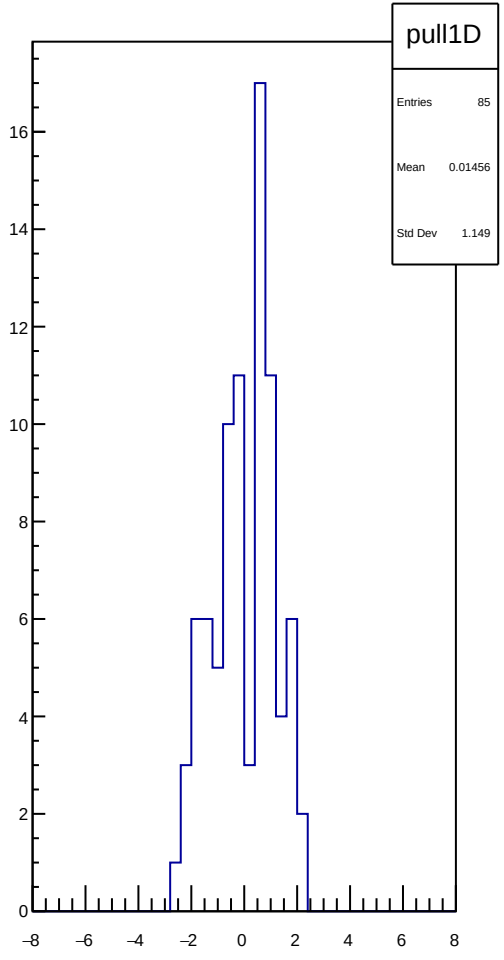

pull1D
Entries 85
Mean 0.005502
Std Dev 0.6236

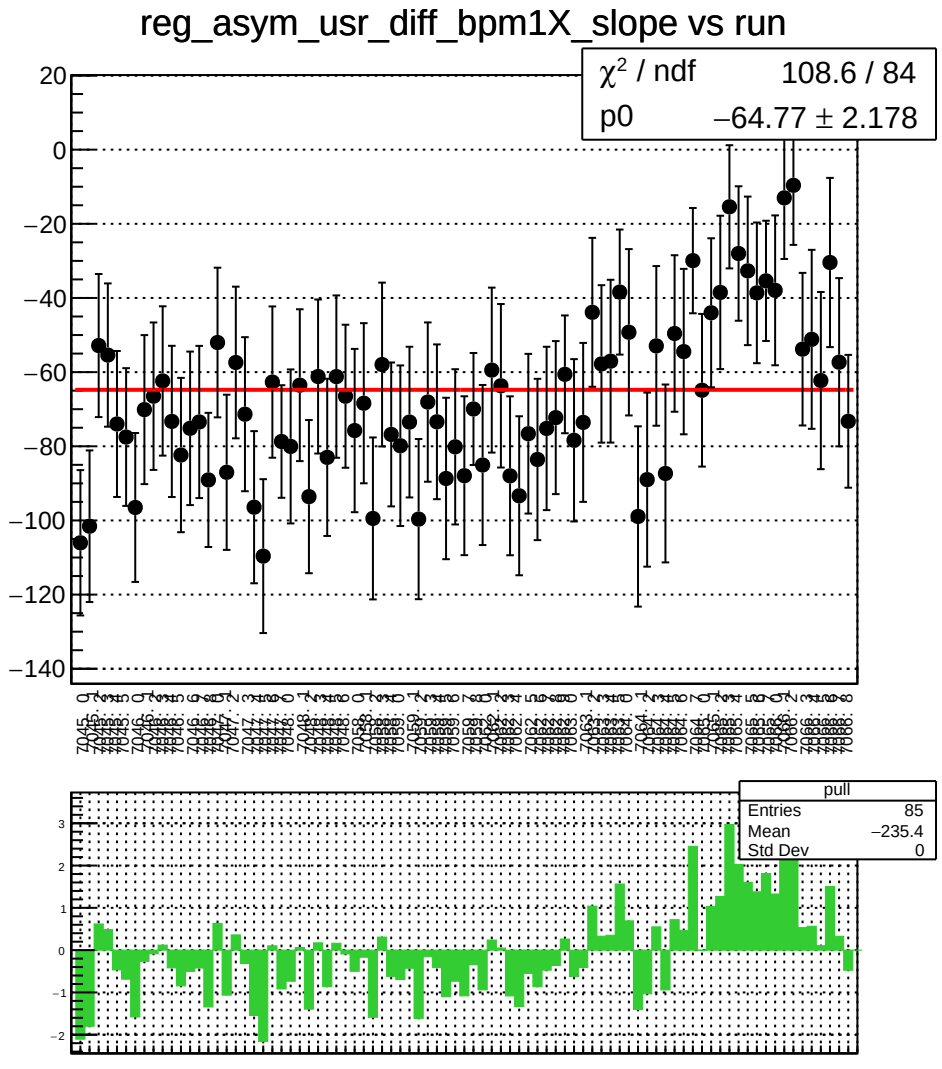

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 29.21 / 84
p0 15.36 ± 2.098
pull
Entries 85
Mean 45.42
Std Dev 13.19
pull1D
Entries 85
Mean −0.0236
Std Dev 0.5857

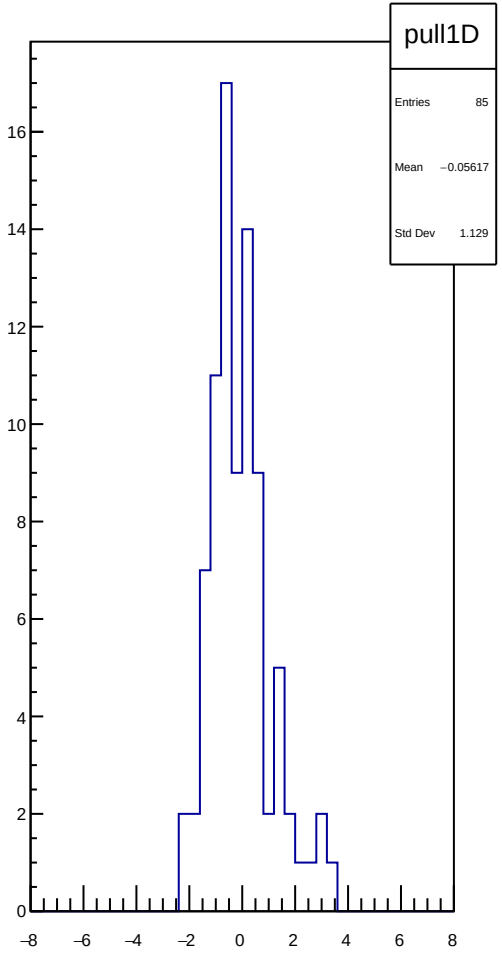

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 32.61 / 84
p0 22.87 ± 1.57
pull
Entries 85
Mean −1464
Std Dev 0

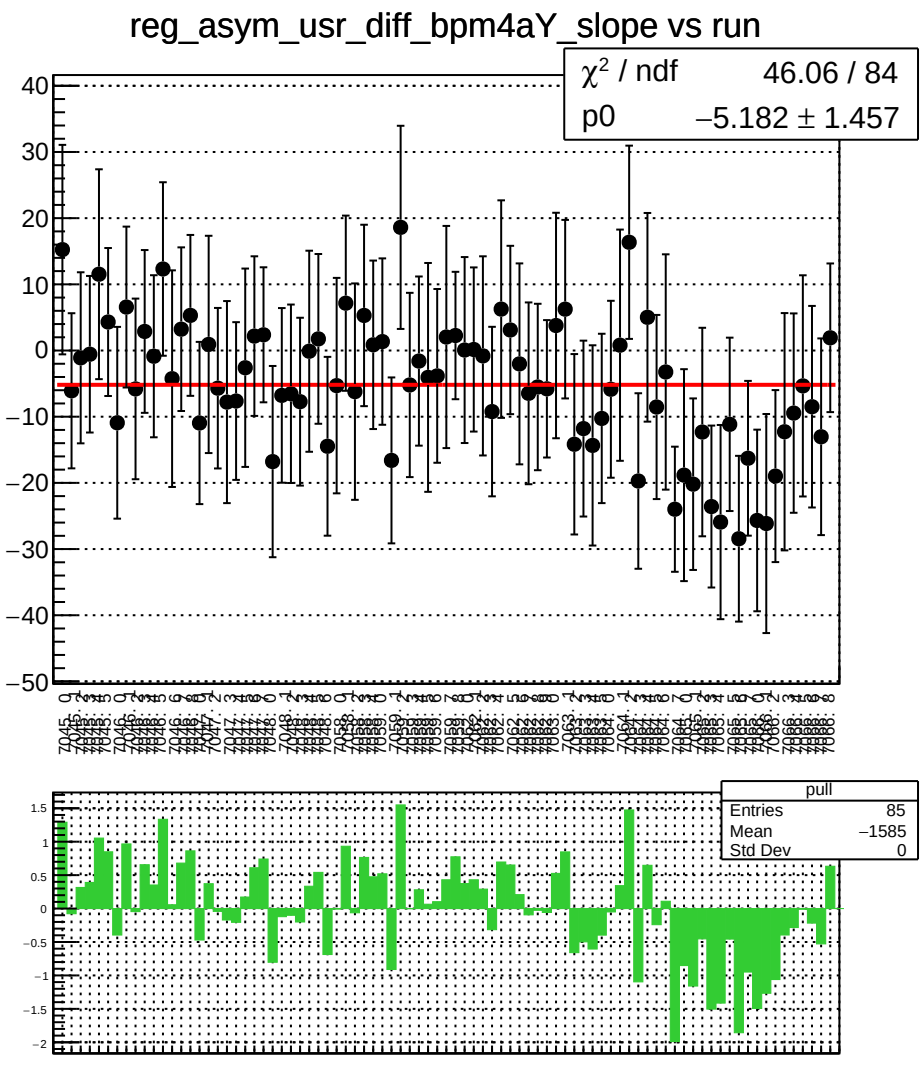

pull1D
Entries 85
Mean −0.001353
Std Dev 0.6194

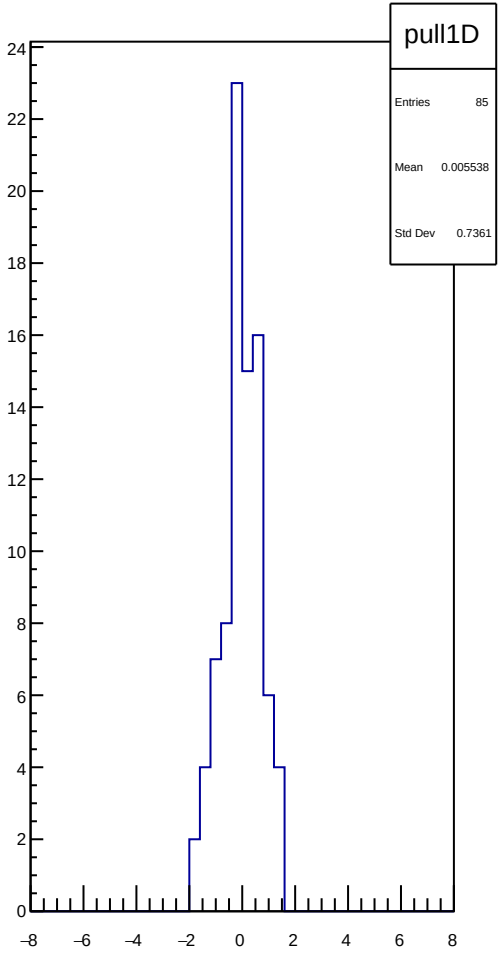

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 112.3 / 84
p0 −39.03 ± 0.07318
−37
−38
−39
−40
−41
pull
Entries 85
Mean 1121
Std Dev 0
2
1
0
−1
−2

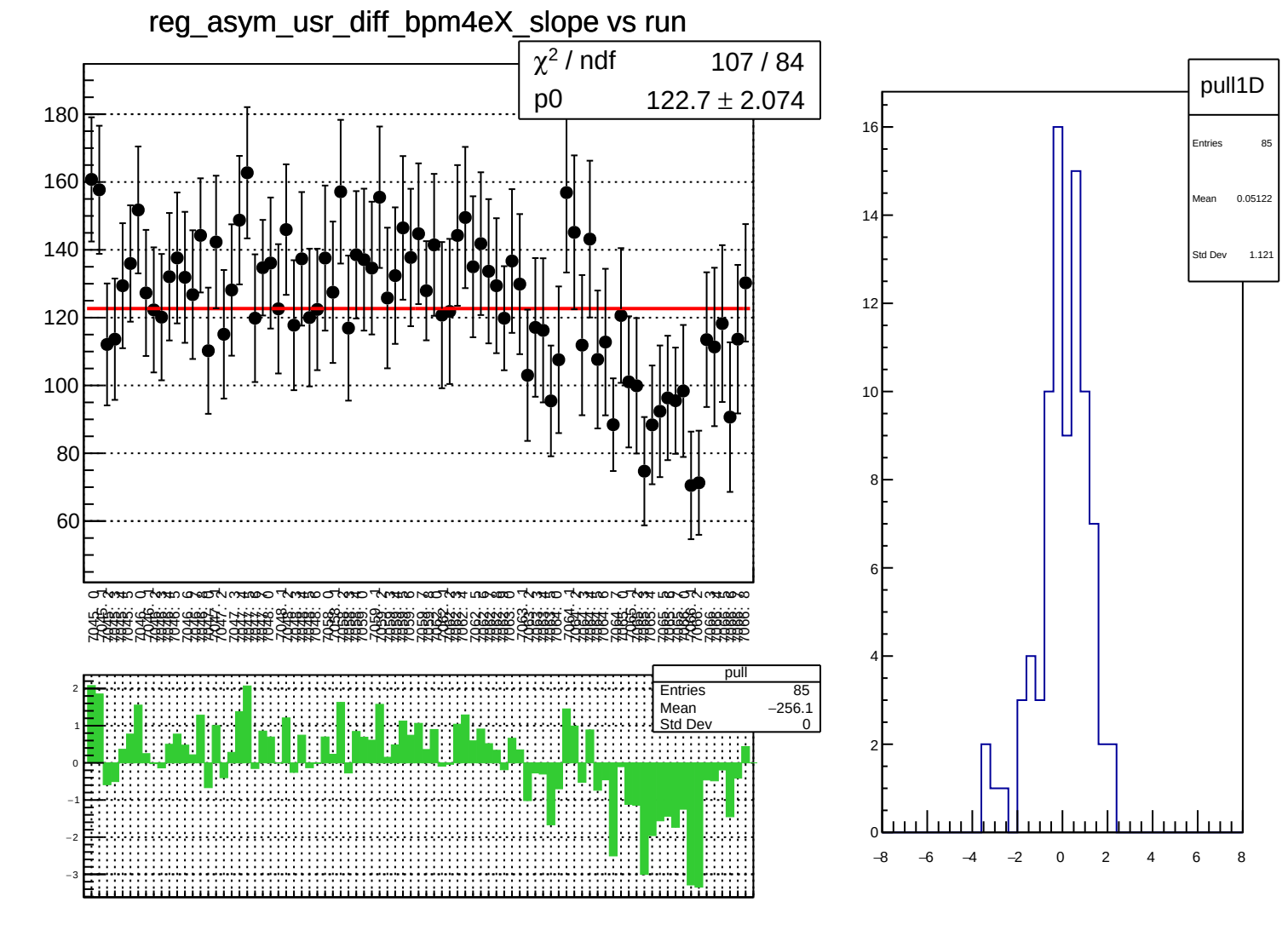

pull1D
Entries 85
Mean 0.01456
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

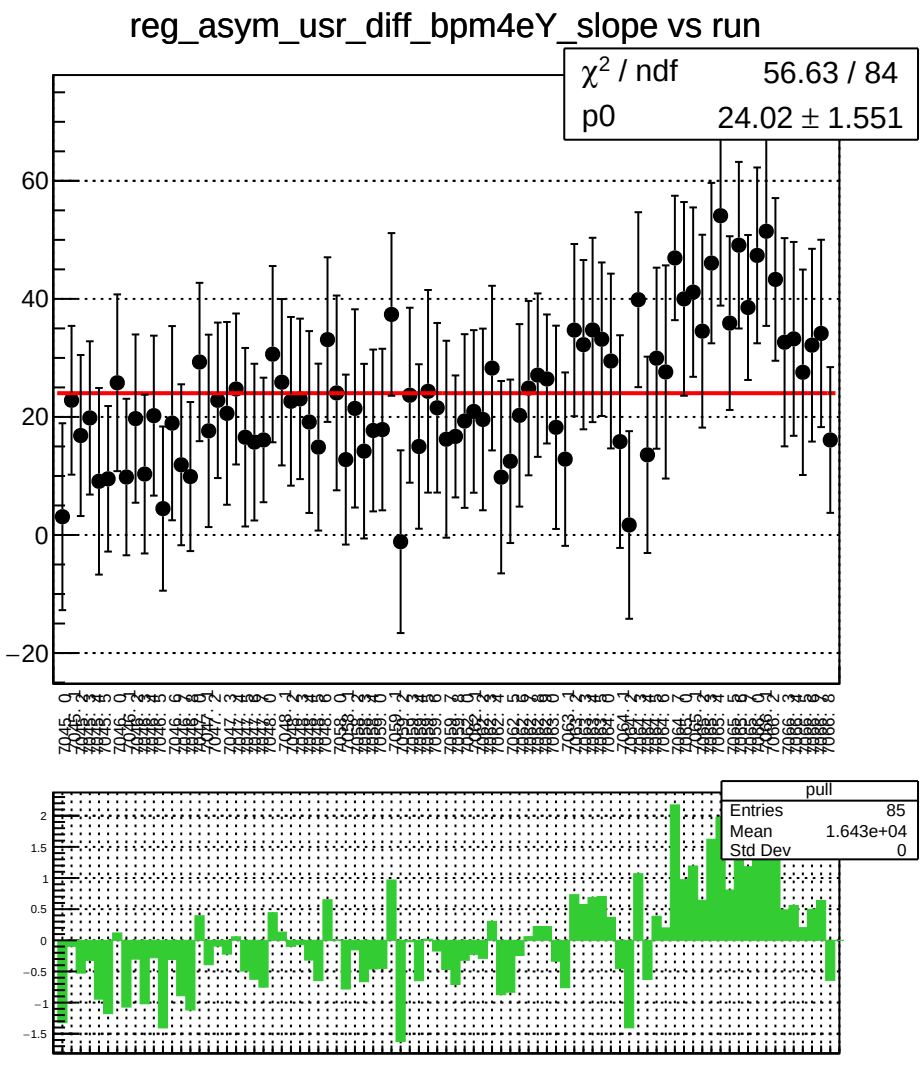

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 108.6 / 84
p0 −64.77 ± 2.178
pull
Entries 85
Mean −235.4
Std Dev 0

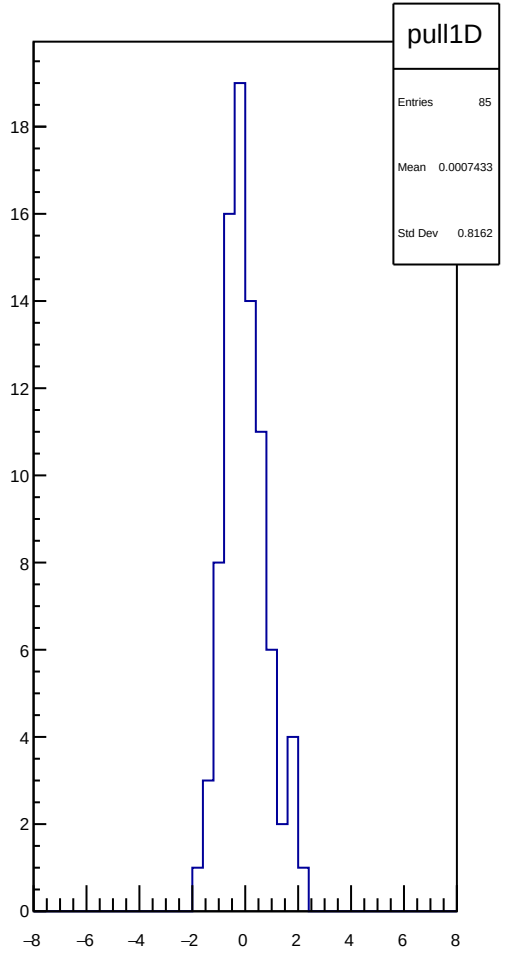

pull1D
Entries 85
Mean −0.05617
Std Dev 1.129

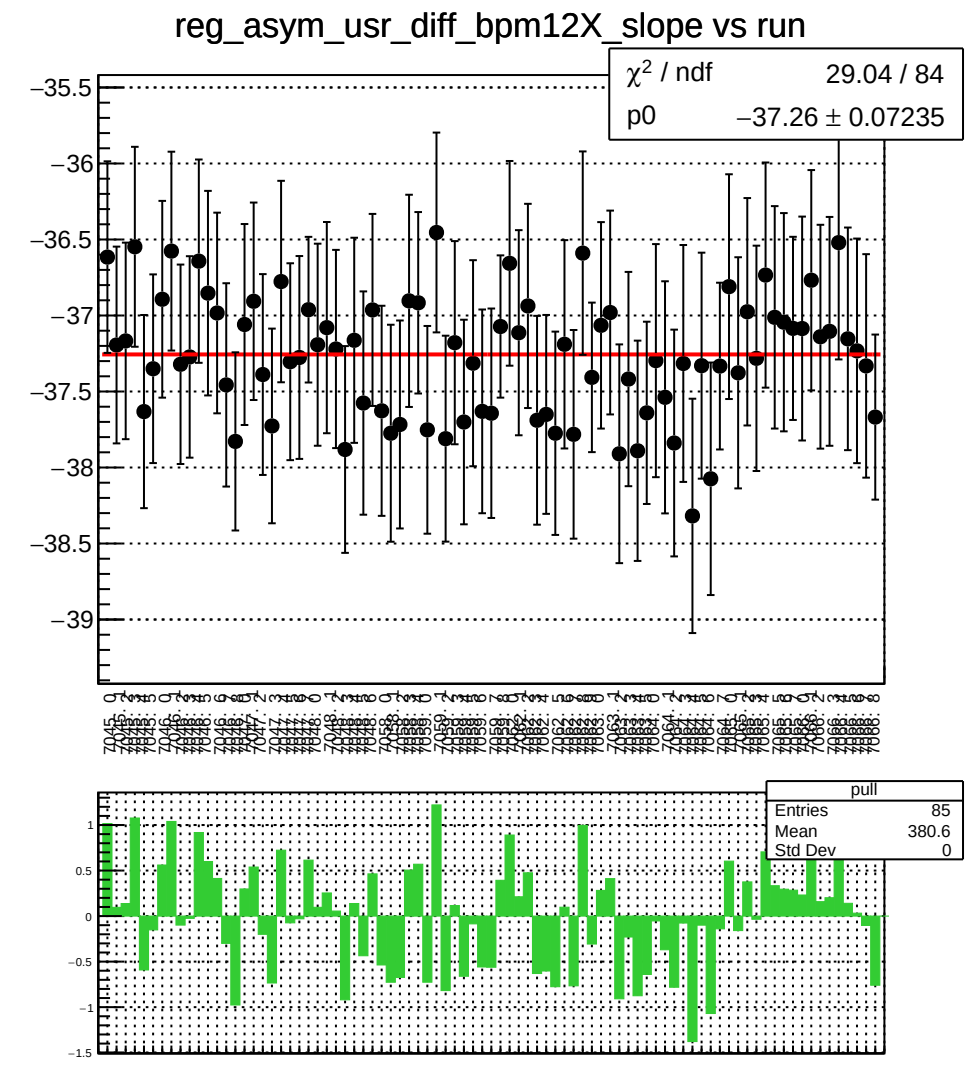

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 46.06 / 84
p0 −5.182 ± 1.457
pull
Entries 85
Mean −1585
Std Dev 0

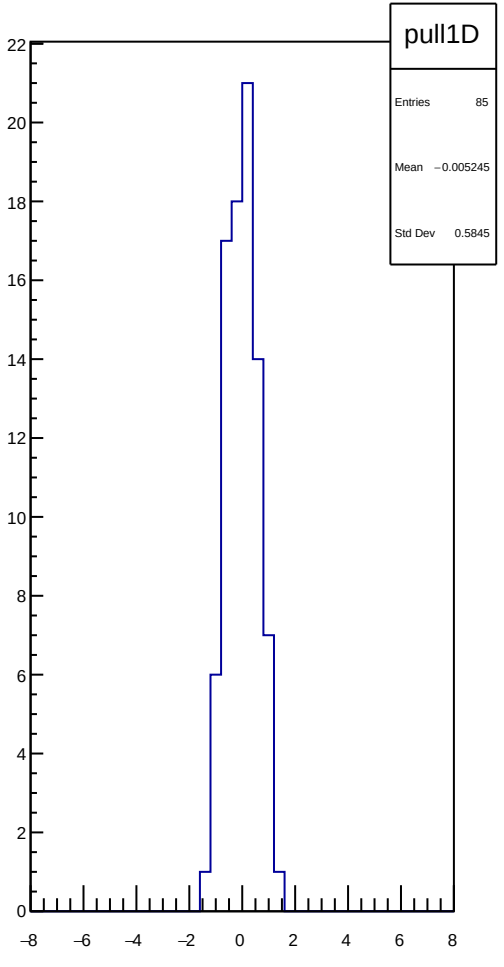

pull1D
Entries 85
Mean 0.005538
Std Dev 0.7361

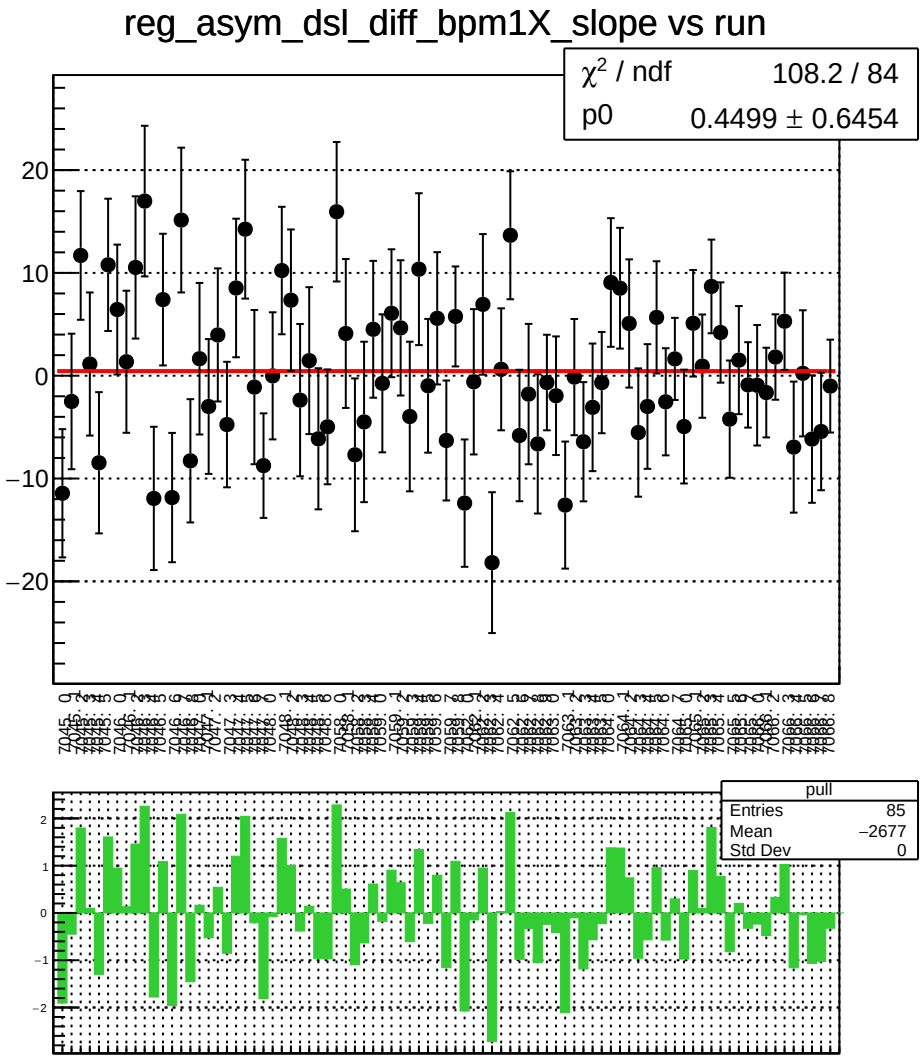

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 107 / 84
p0 122.7 ± 2.074
pull
Entries 85
Mean −256.1
Std Dev 0
pull1D
Entries 85
Mean 0.05122
Std Dev 1.121

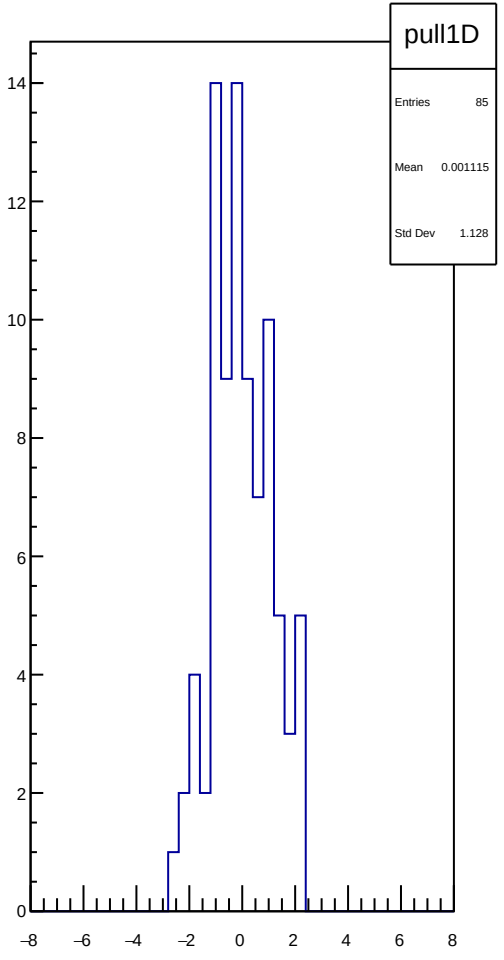

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 56.63 / 84
p0 24.02 ± 1.551
pull
Entries 85
Mean 1.643e+04
Std Dev 0

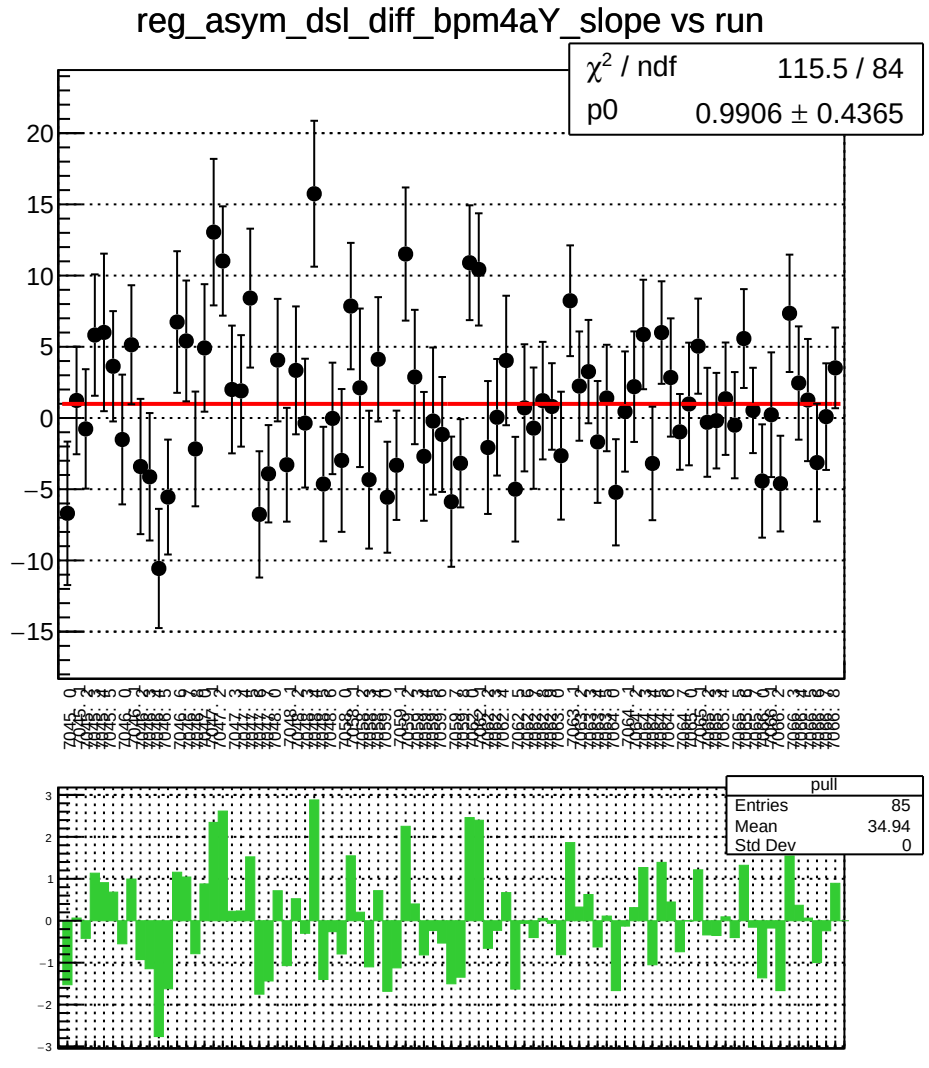

pull1D
Entries 85
Mean 0.0007433
Std Dev 0.8162

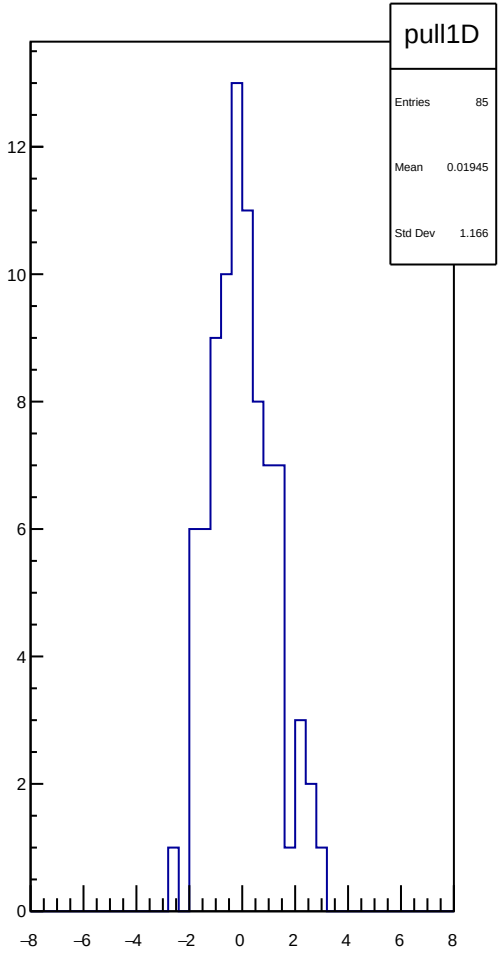

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 29.04 / 84
p0 −37.26 ± 0.07235
−35.5
−36
−36.5
−37
−37.5
−38
−38.5
−39
pull
Entries 85
Mean 380.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

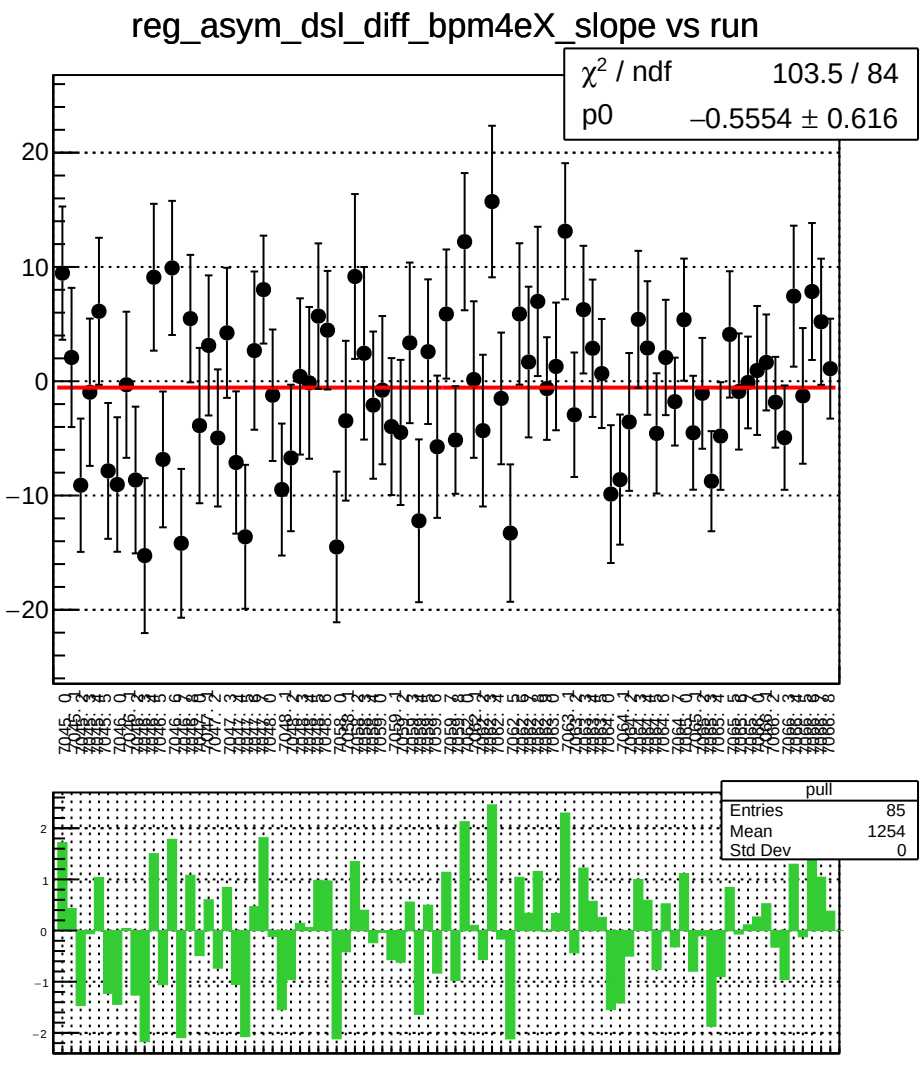

pull1D
Entries 85
Mean −0.005245
Std Dev 0.5845
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

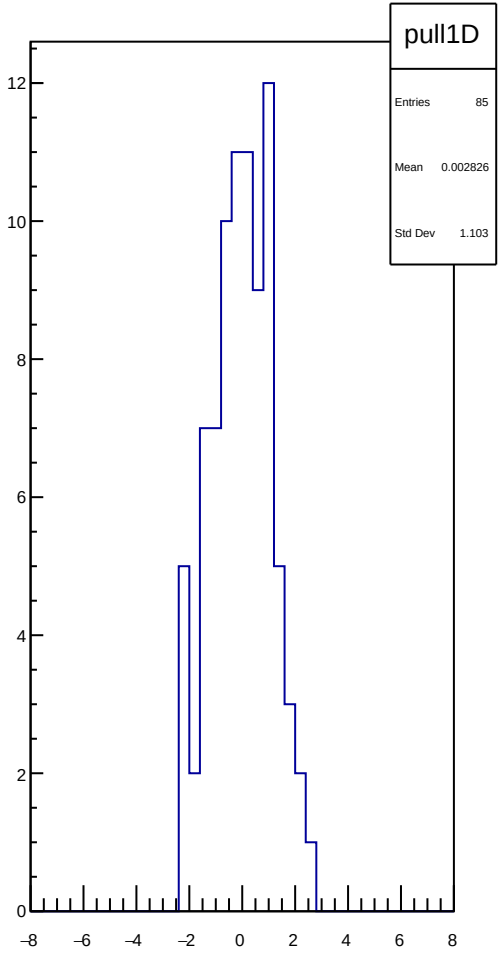

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 108.2 / 84
p0 0.4499 ± 0.6454
pull
Entries 85
Mean −2677
Std Dev 0

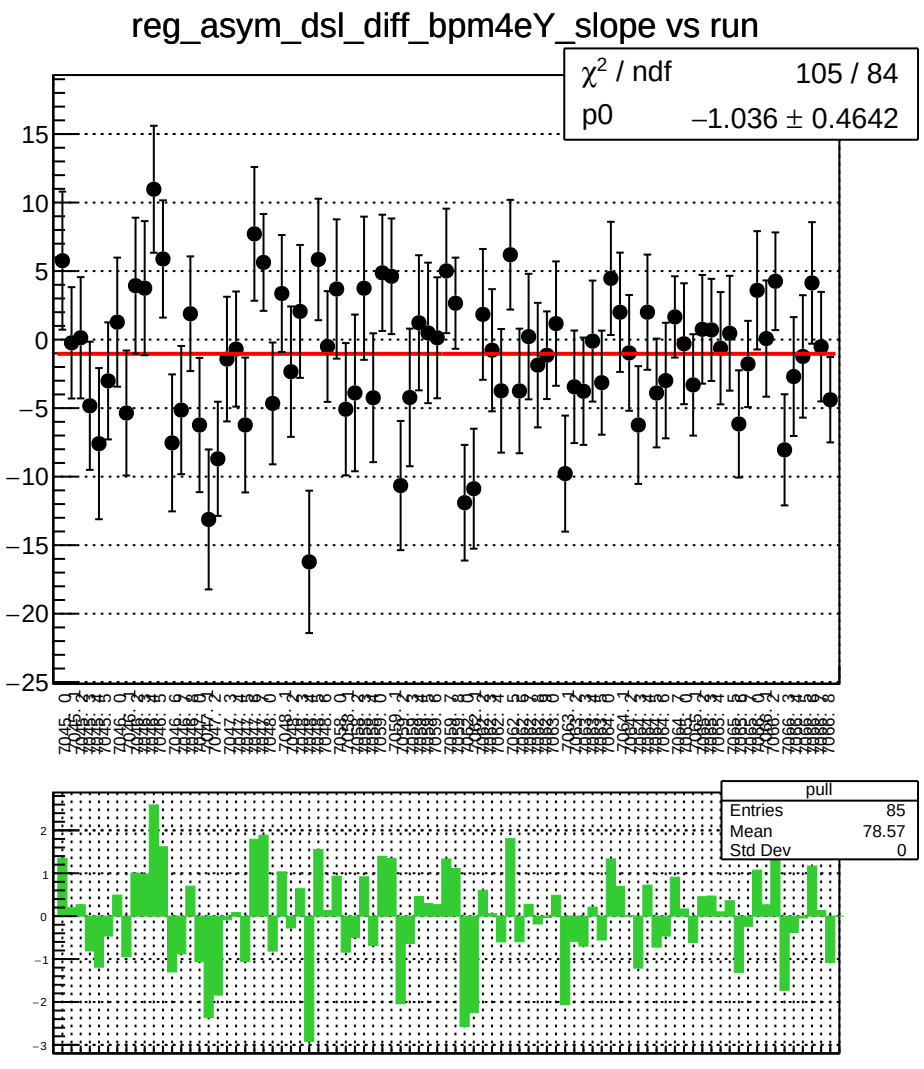

pull1D
Entries 85
Mean 0.001115
Std Dev 1.128

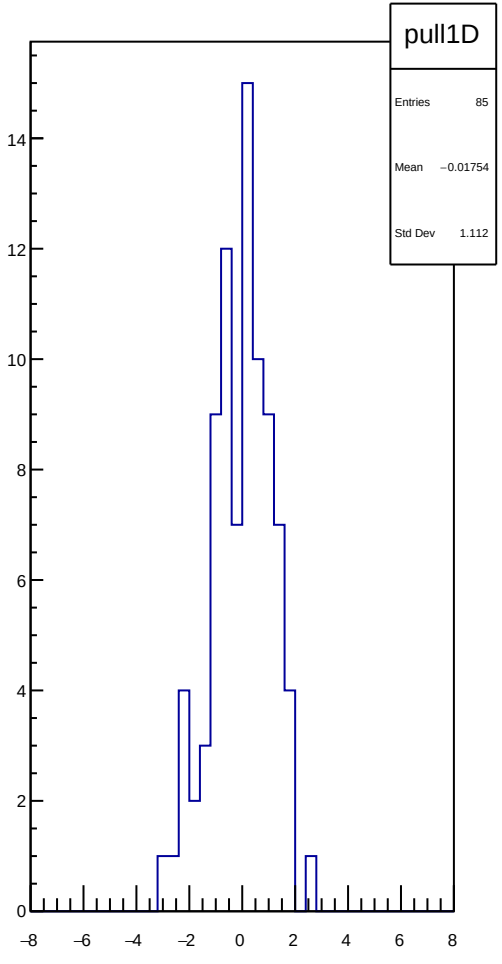

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 115.5 / 84
p0 0.9906 ± 0.4365
pull
Entries 85
Mean 34.94
Std Dev 0

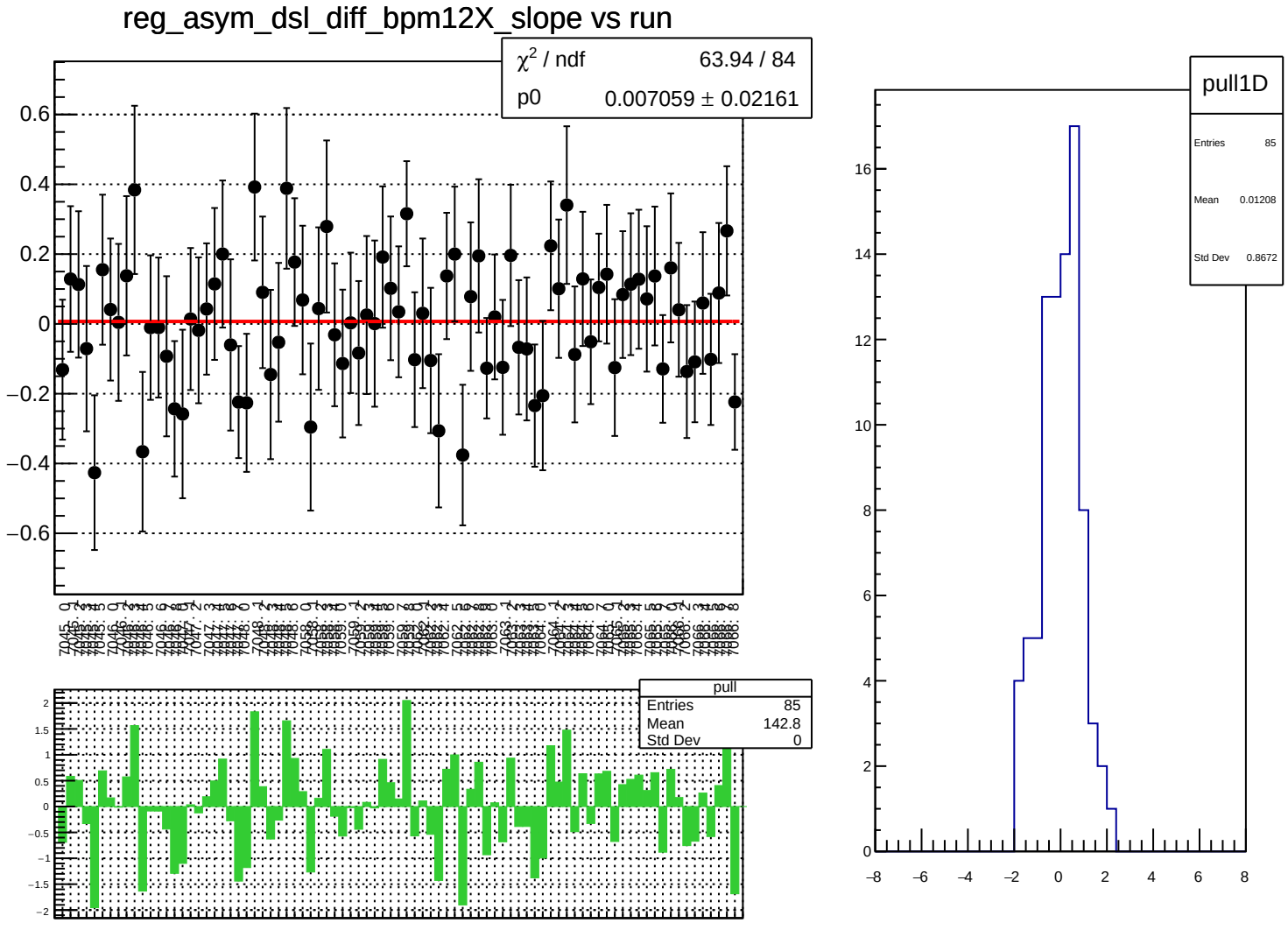

pull1D
Entries 85
Mean 0.01945
Std Dev 1.166

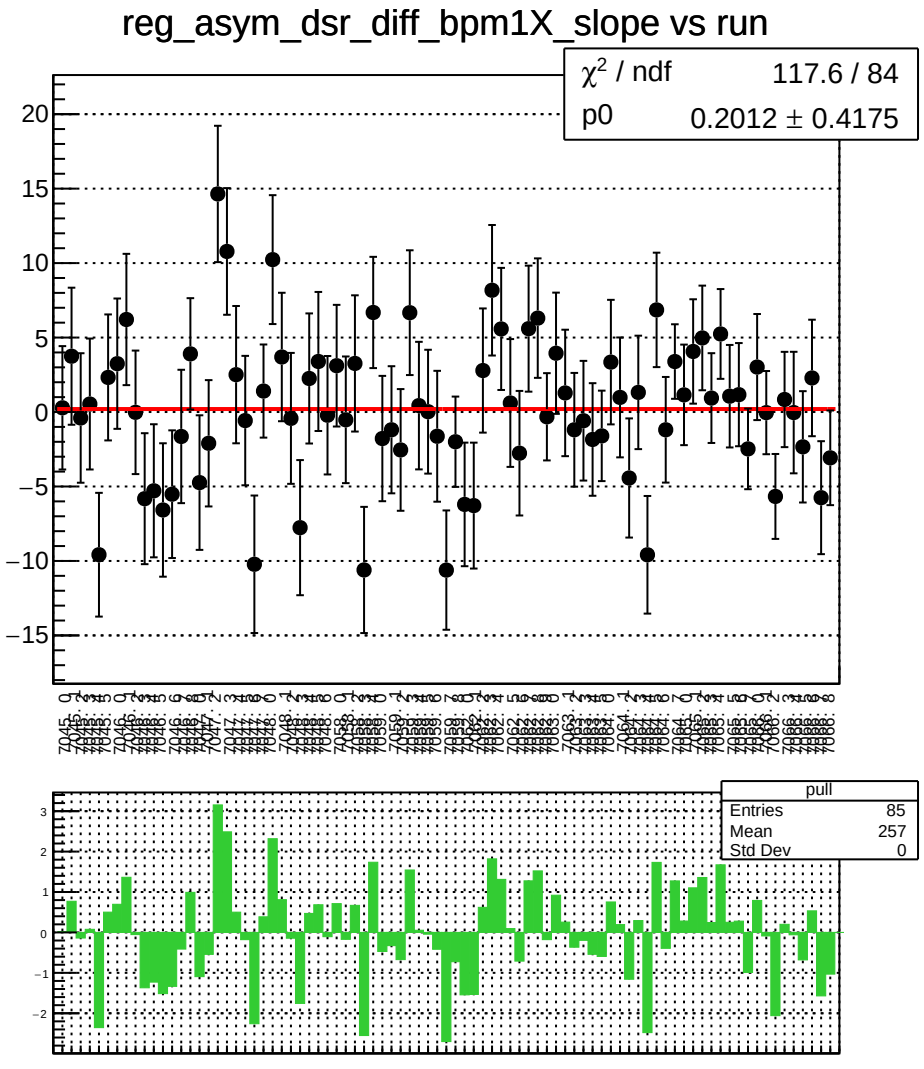

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 103.5 / 84
p0 −0.5554 ± 0.616
pull
Entries 85
Mean 1254
Std Dev 0

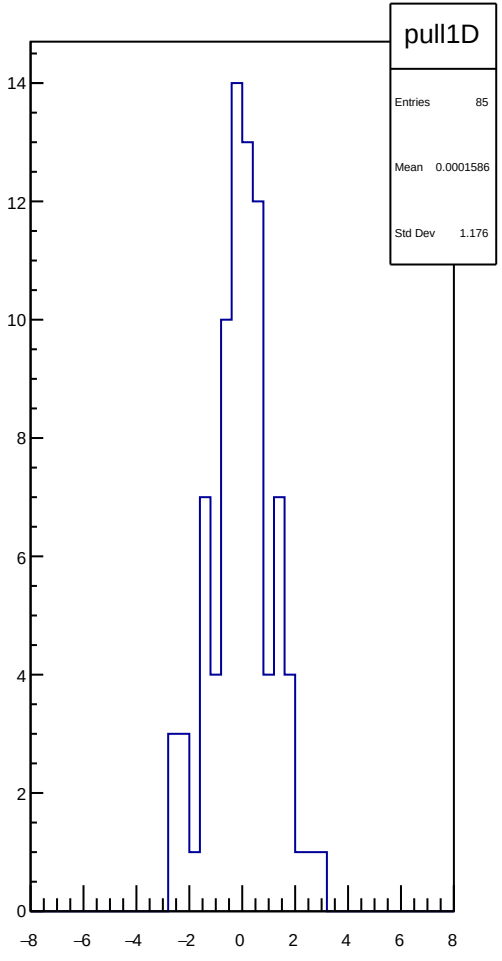

pull1D
Entries 85
Mean 0.002826
Std Dev 1.103

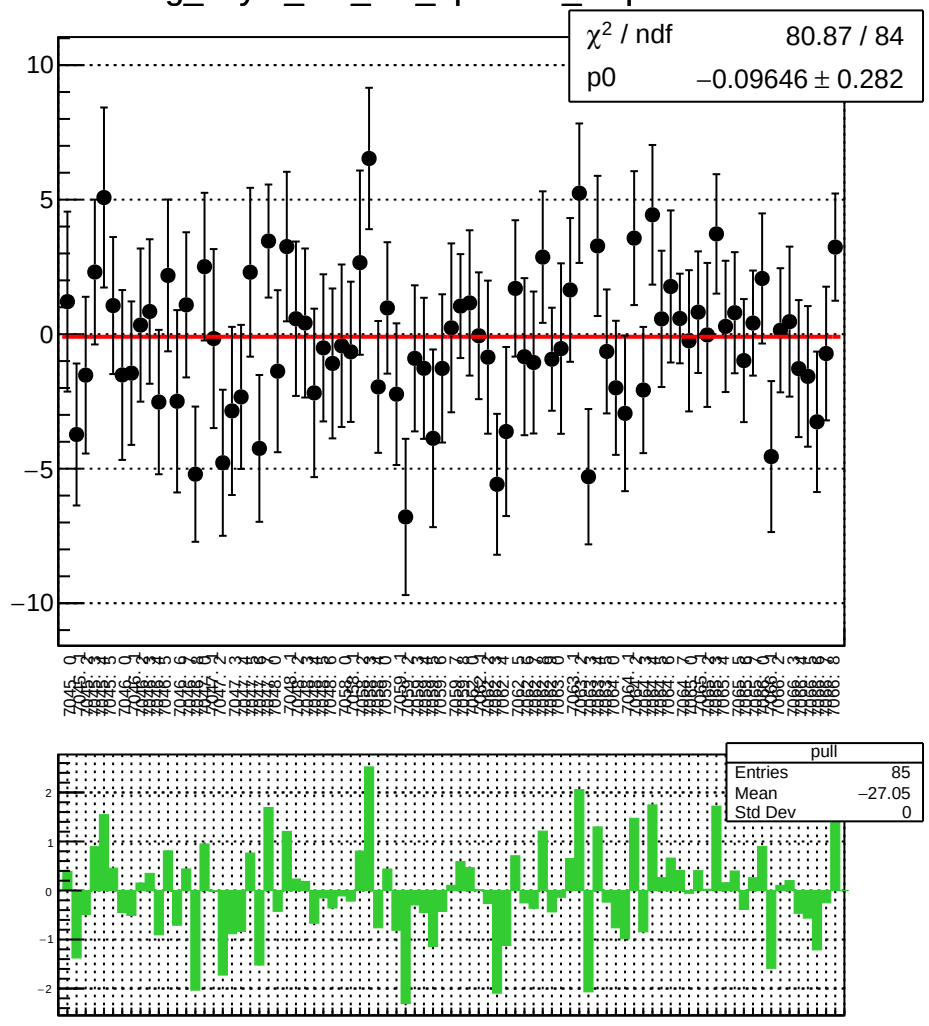

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 105 / 84
p0 −1.036 ± 0.4642
pull
Entries 85
Mean 78.57
Std Dev 0

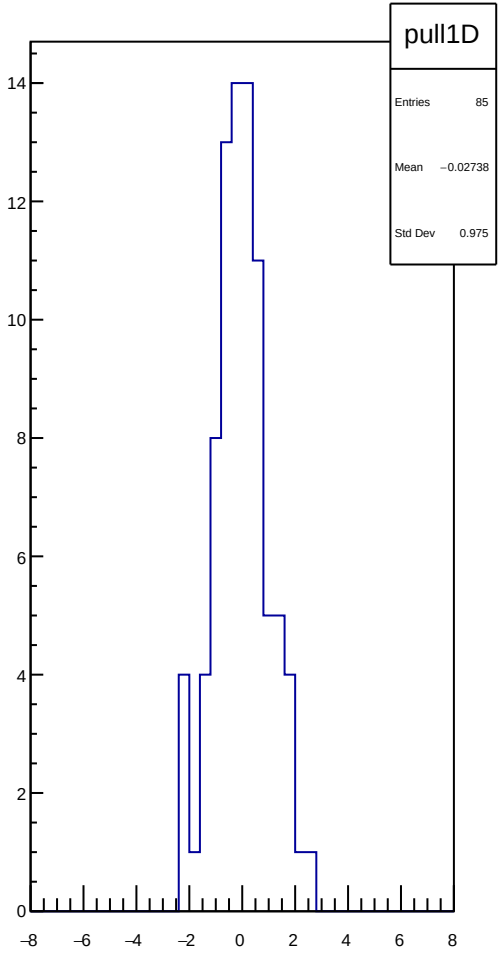

pull1D
Entries 85
Mean −0.01754
Std Dev 1.112

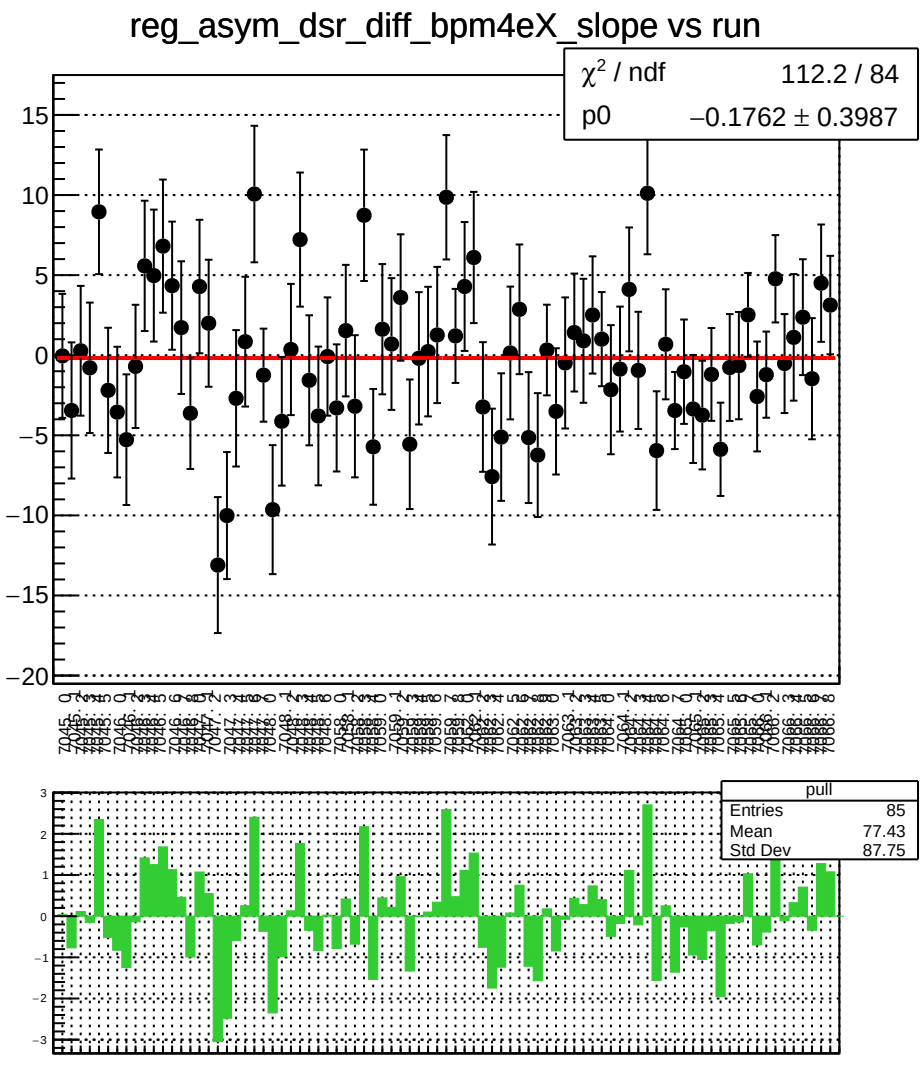

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 63.94 / 84
p0 0.007059 ± 0.02161
pull
Entries 85
Mean 142.8
Std Dev 0
pull1D
Entries 85
Mean 0.01208
Std Dev 0.8672

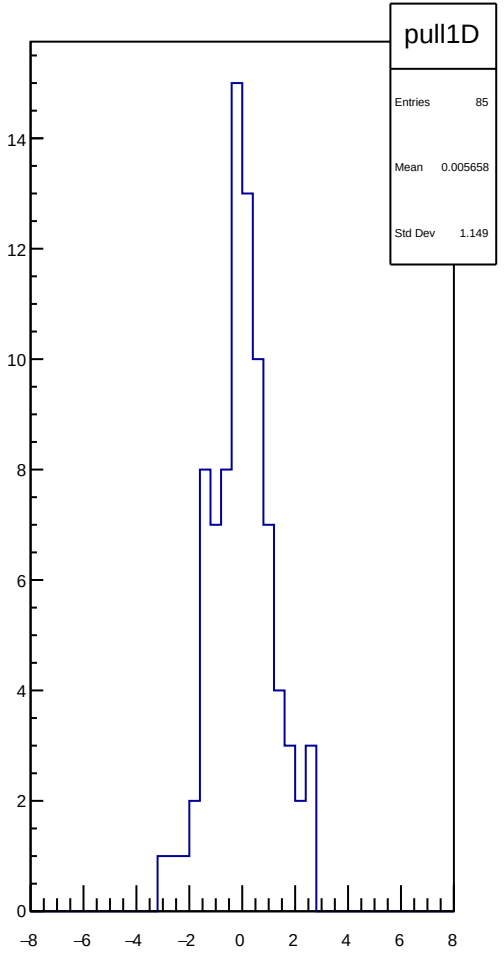

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 117.6 / 84
p0 0.2012 ± 0.4175
pull
Entries 85
Mean 257
Std Dev 0

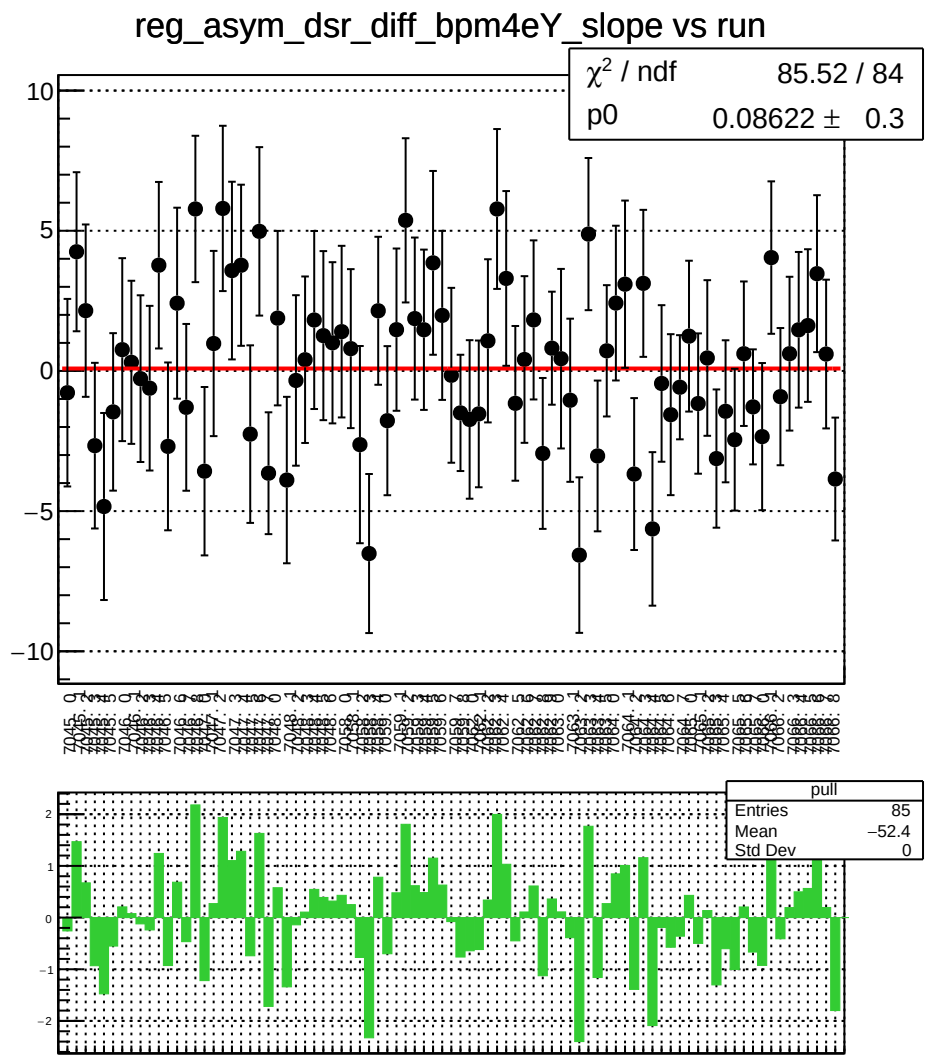

pull1D
Entries 85
Mean 0.0001586
Std Dev 1.176

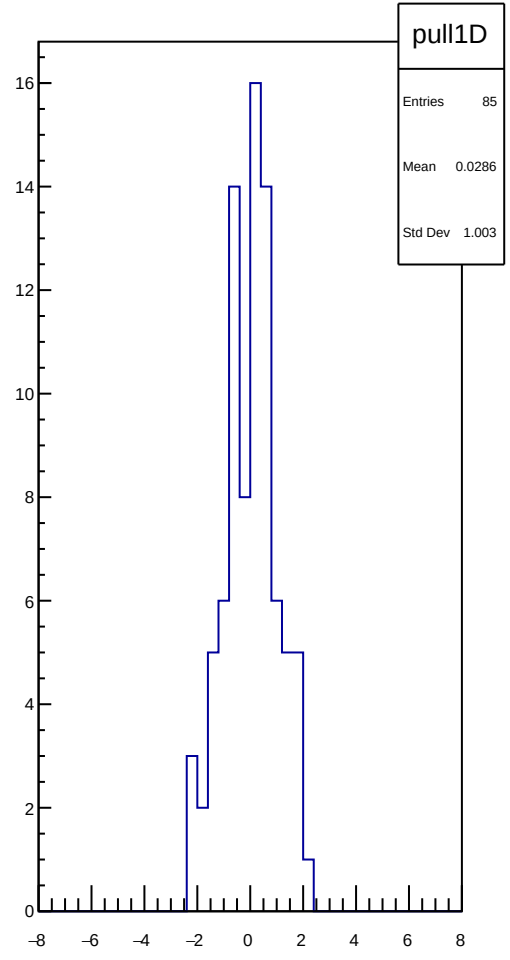

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 80.87 / 84
p0 −0.09646 ± 0.282
pull
Entries 85
Mean −27.05
Std Dev 0

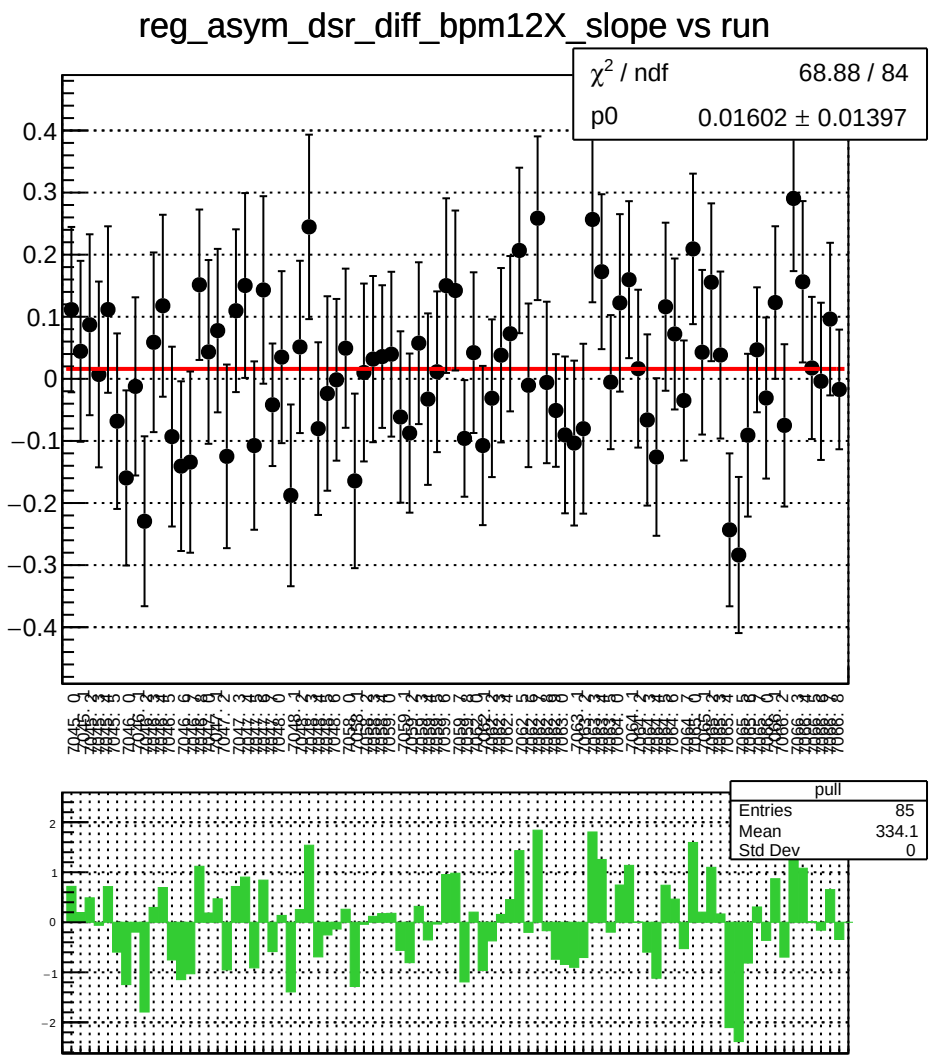

pull1D
Entries 85
Mean −0.02738
Std Dev 0.975

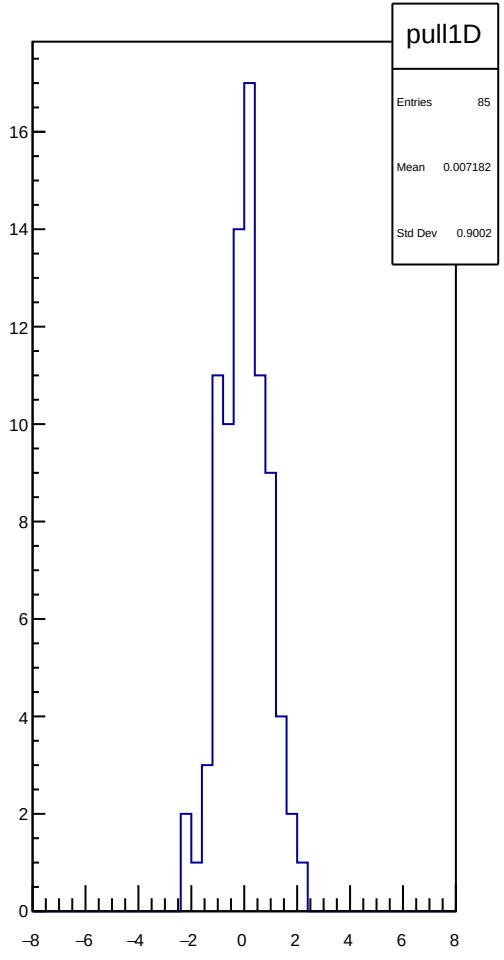

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 112.2 / 84
p0 −0.1762 ± 0.3987
pull
Entries 85
Mean 77.43
Std Dev 87.75

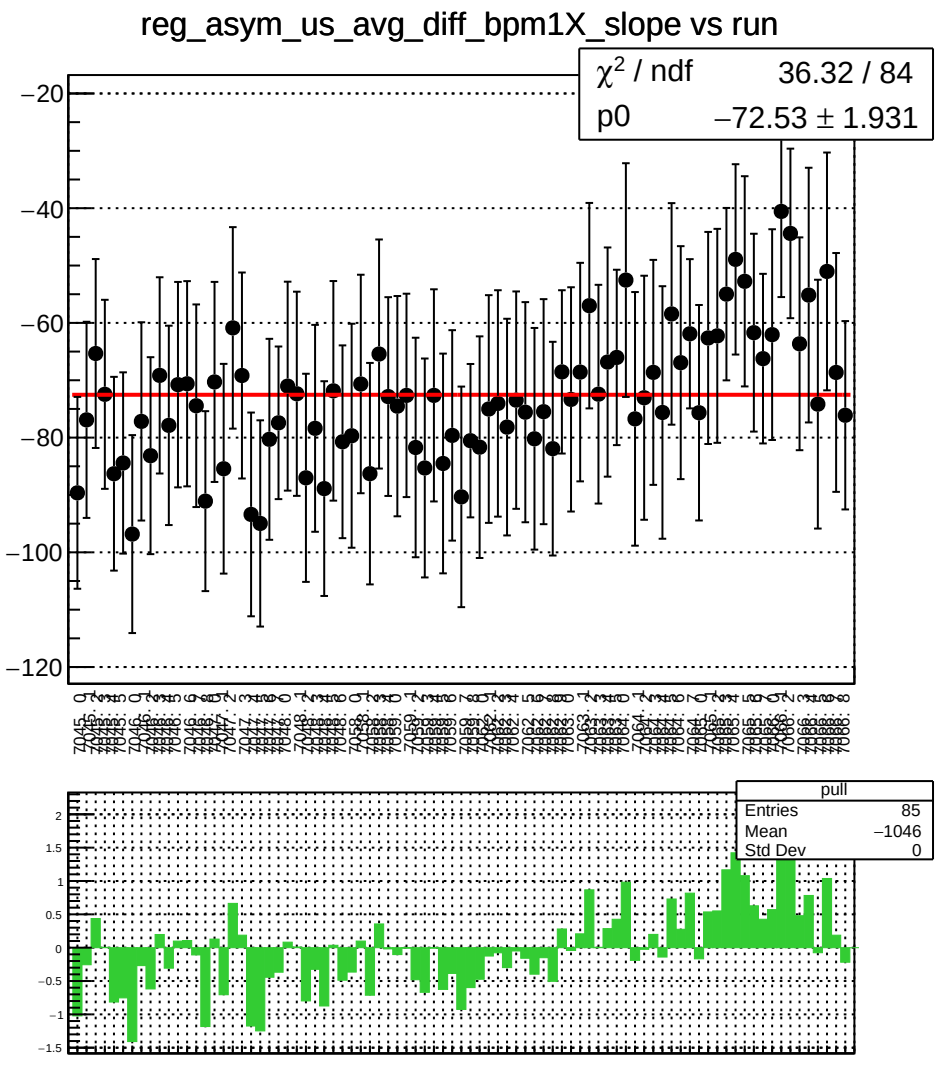

pull1D
Entries 85
Mean 0.005658
Std Dev 1.149

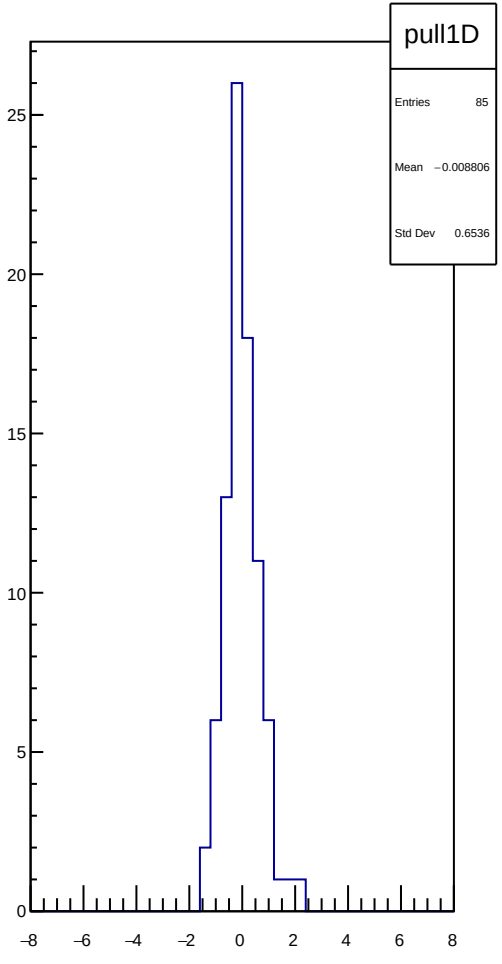

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 85.52 / 84
p0 0.08622 ± 0.3
pull
Entries 85
Mean −52.4
Std Dev 0

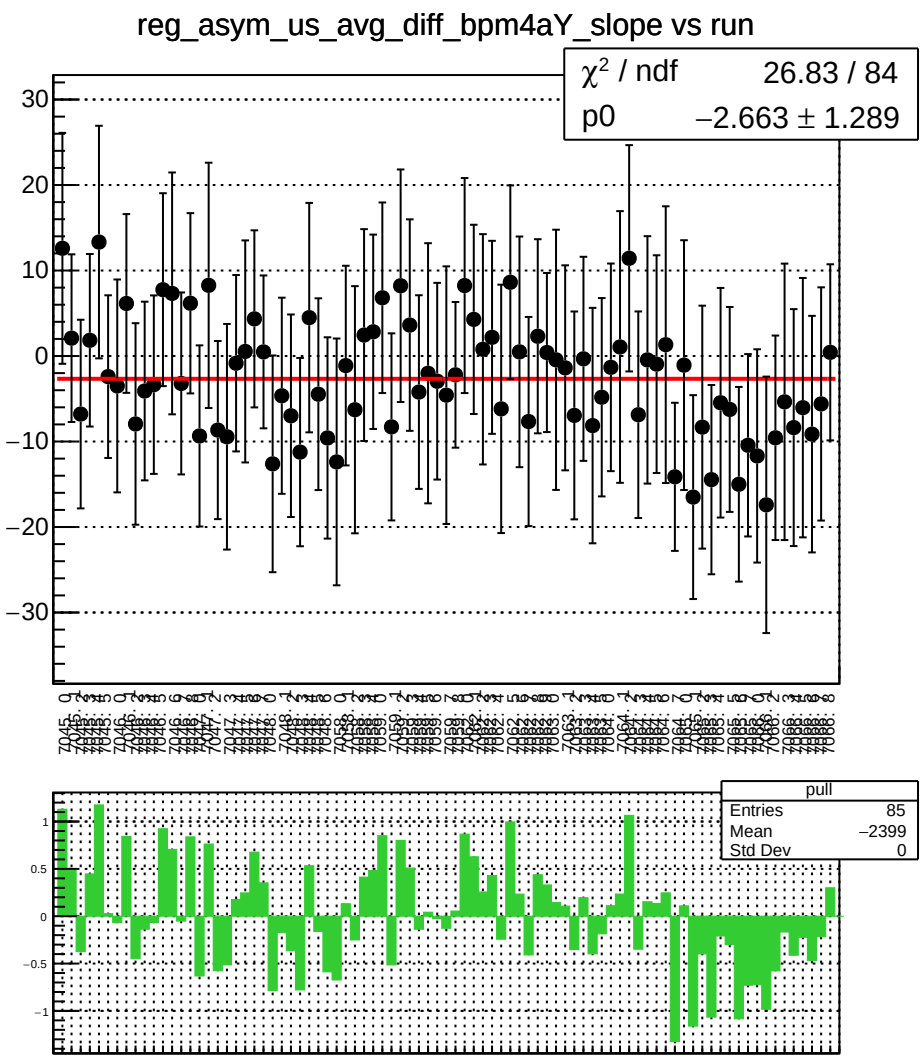

pull1D
Entries 85
Mean 0.0286
Std Dev 1.003

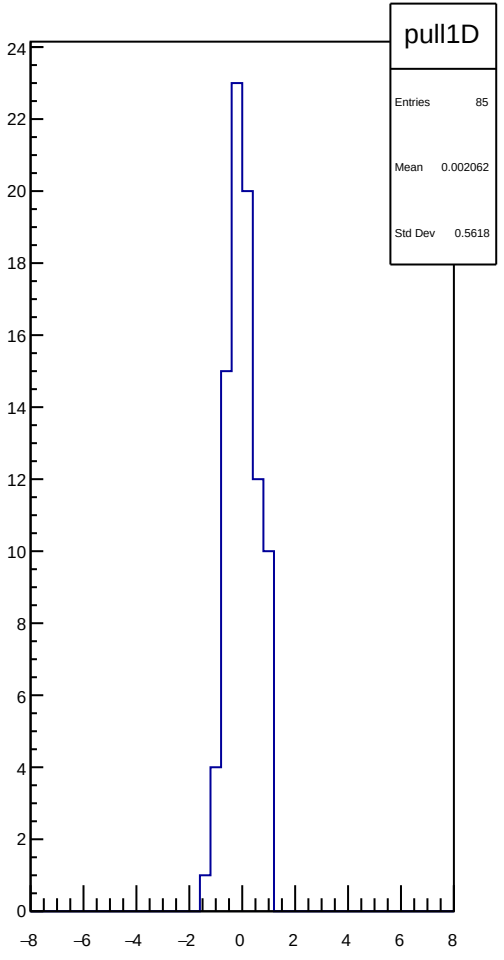

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 68.88 / 84
p0 0.01602 ± 0.01397
pull
Entries 85
Mean 334.1
Std Dev 0

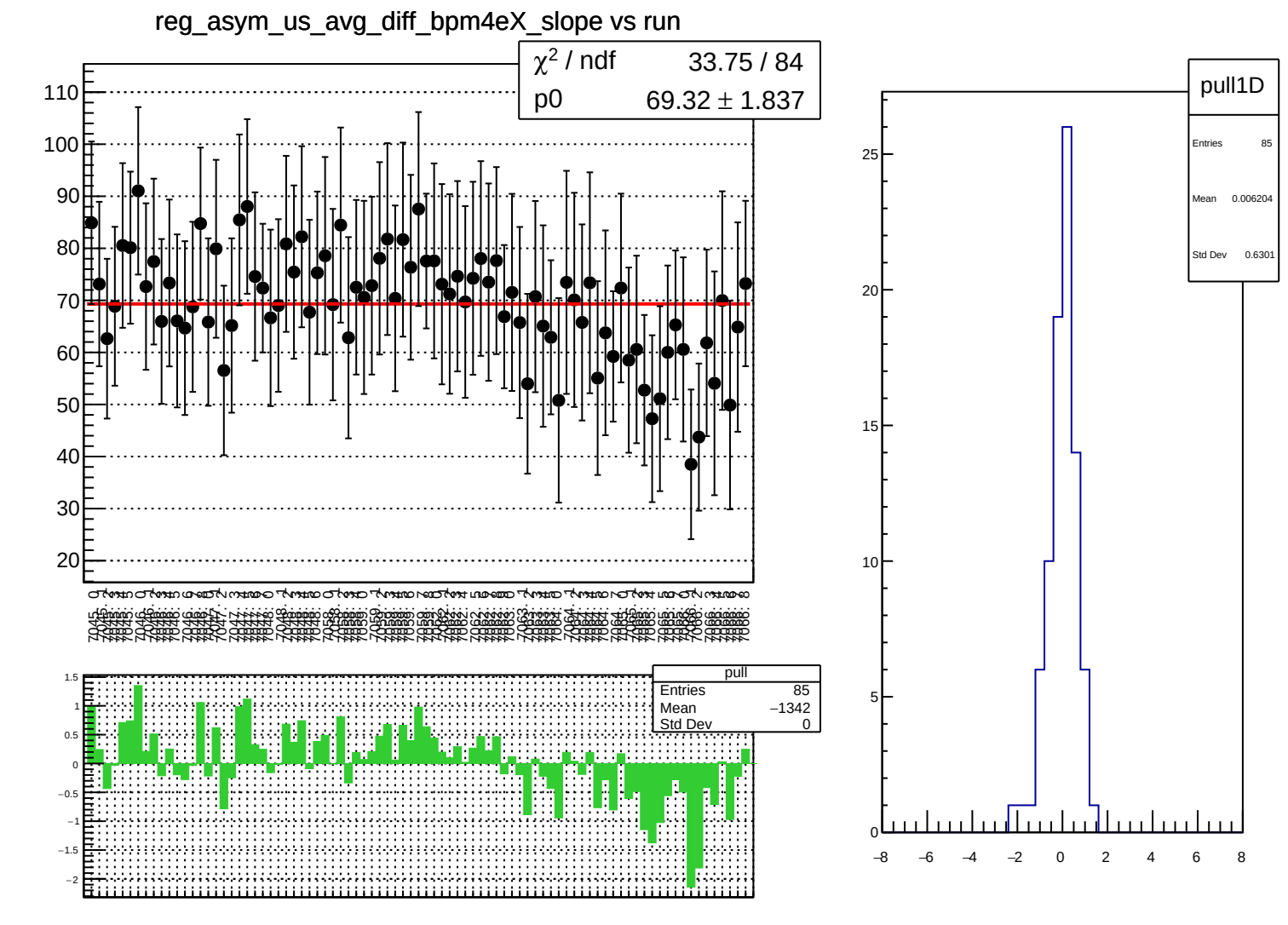

pull1D
Entries 85
Mean 0.007182
Std Dev 0.9002

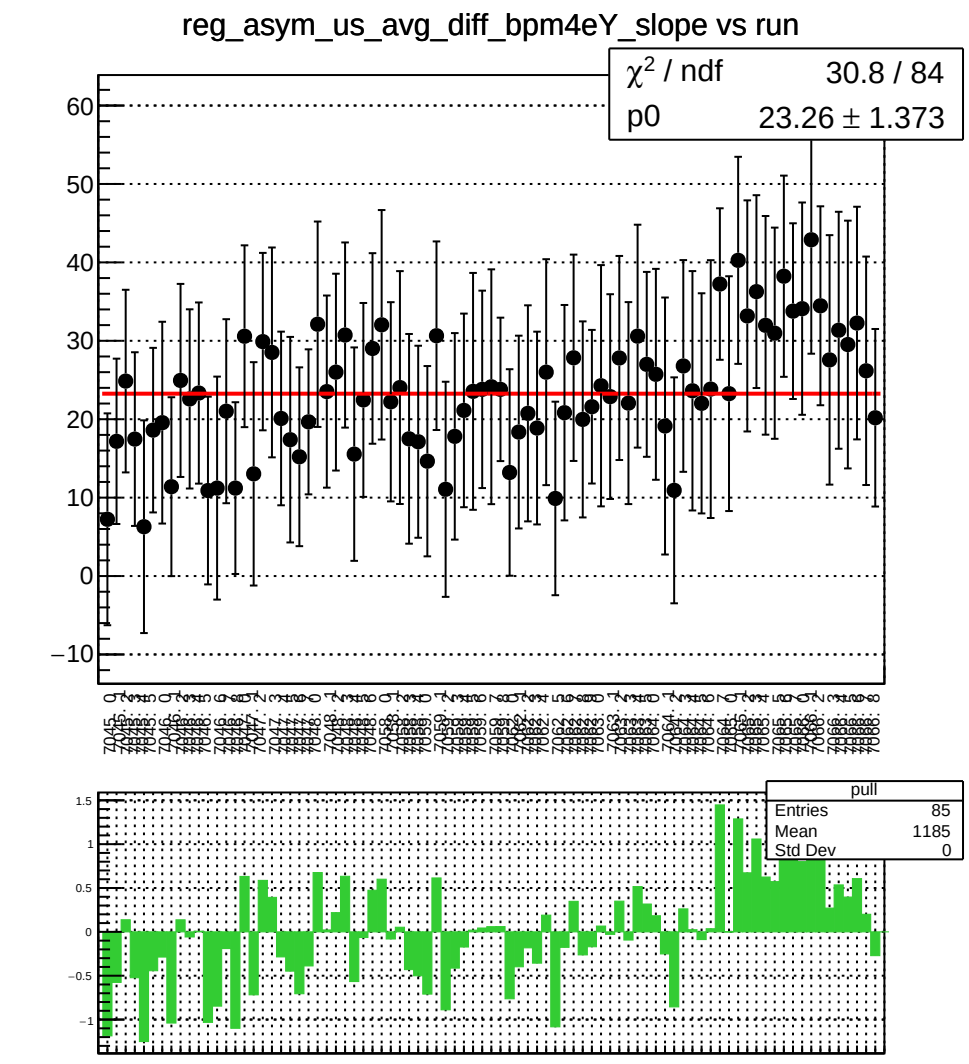

reg_asym_us_avg_diff_bpm1X_slope vs run
χ^2 / ndf 36.32 / 84
p0 −72.53 ± 1.931
pull
Entries 85
Mean −1046
Std Dev 0

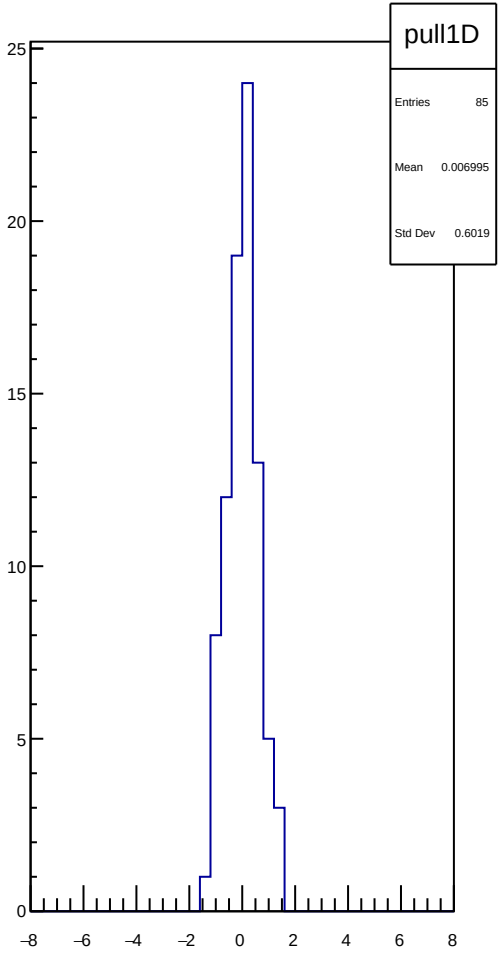

pull1D
Entries 85
Mean −0.008806
Std Dev 0.6536

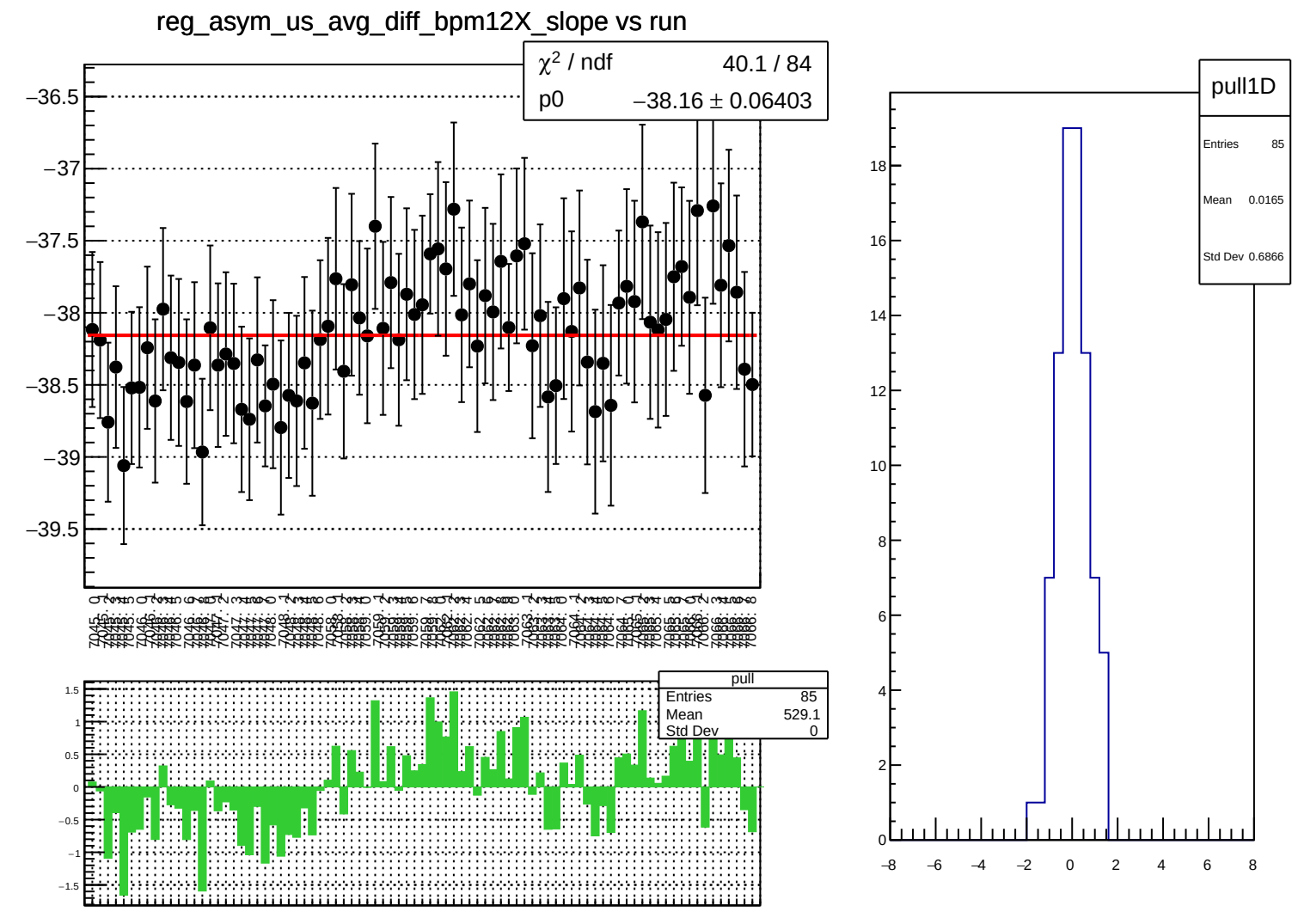

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.83 / 84
p0 −2.663 ± 1.289
pull
Entries 85
Mean −2399
Std Dev 0

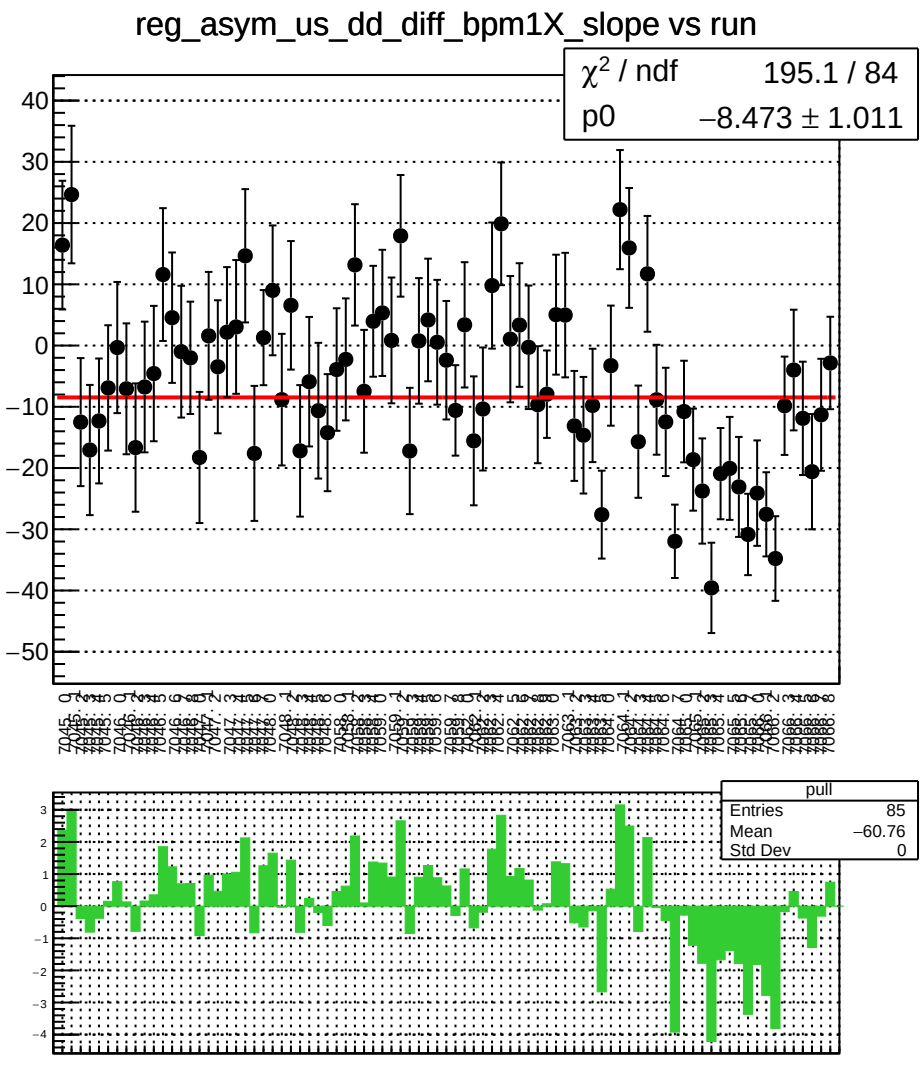

pull1D
Entries 85
Mean 0.002062
Std Dev 0.5618

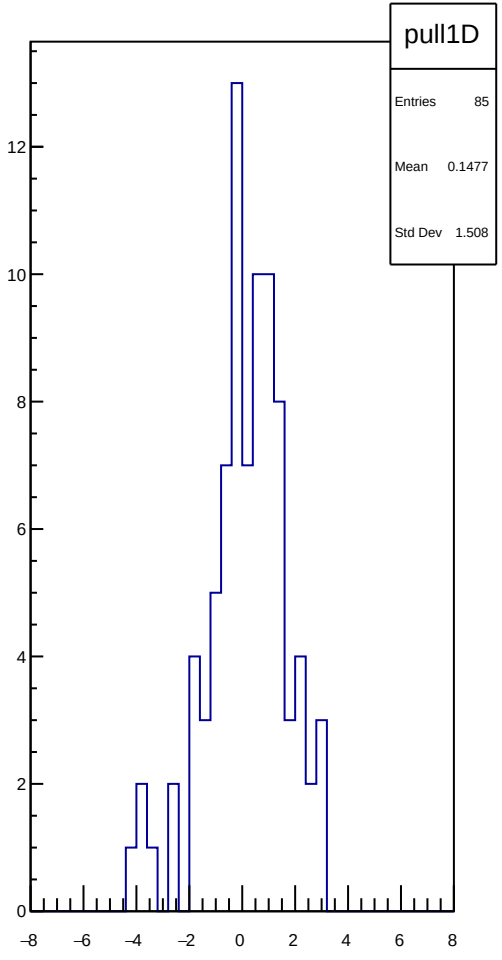

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.75 / 84
p0 69.32 ± 1.837
pull
Entries 85
Mean −1342
Std Dev 0
pull1D
Entries 85
Mean 0.006204
Std Dev 0.6301

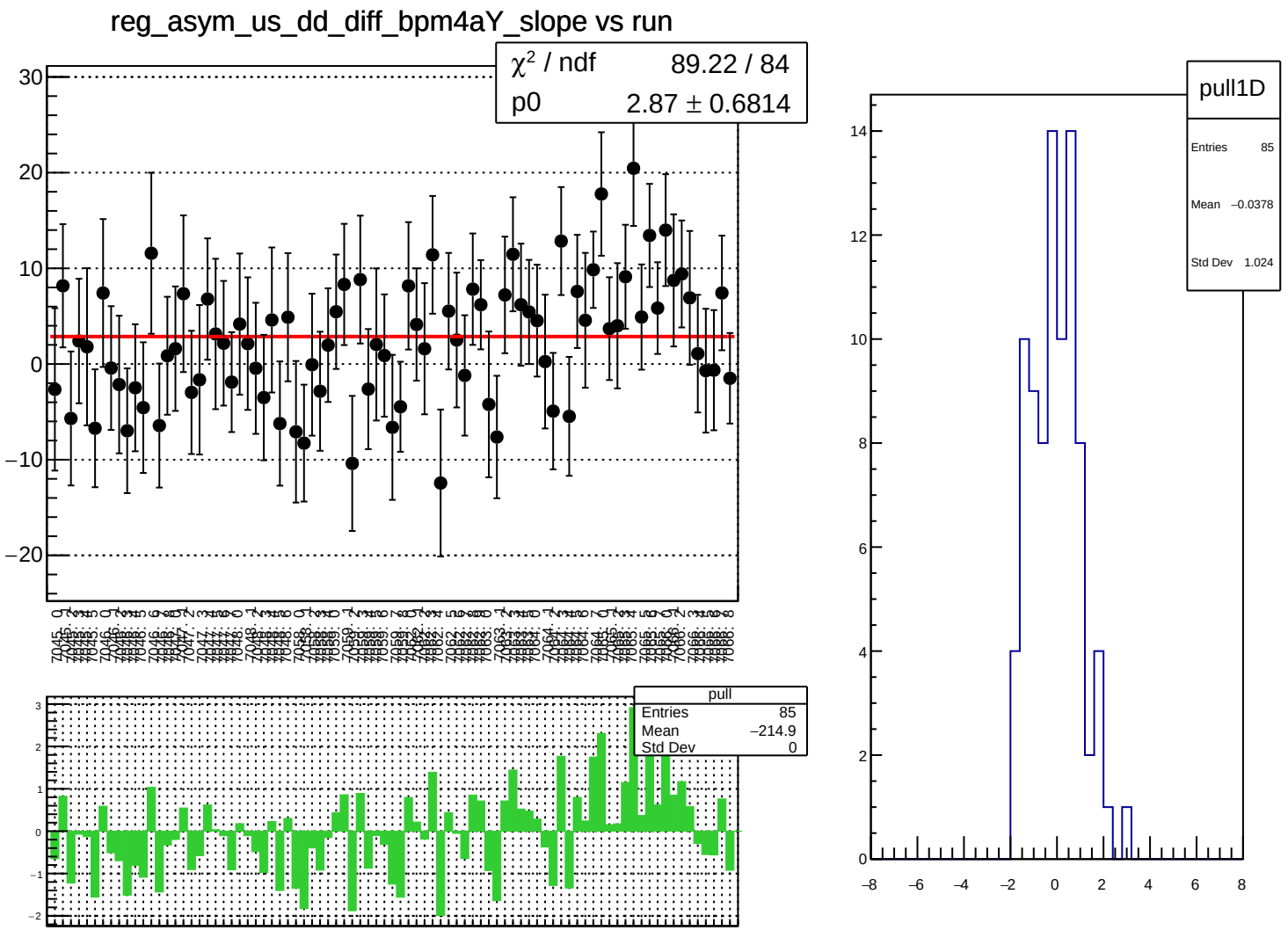

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.8 / 84
p0 23.26 ± 1.373
pull
Entries 85
Mean 1185
Std Dev 0

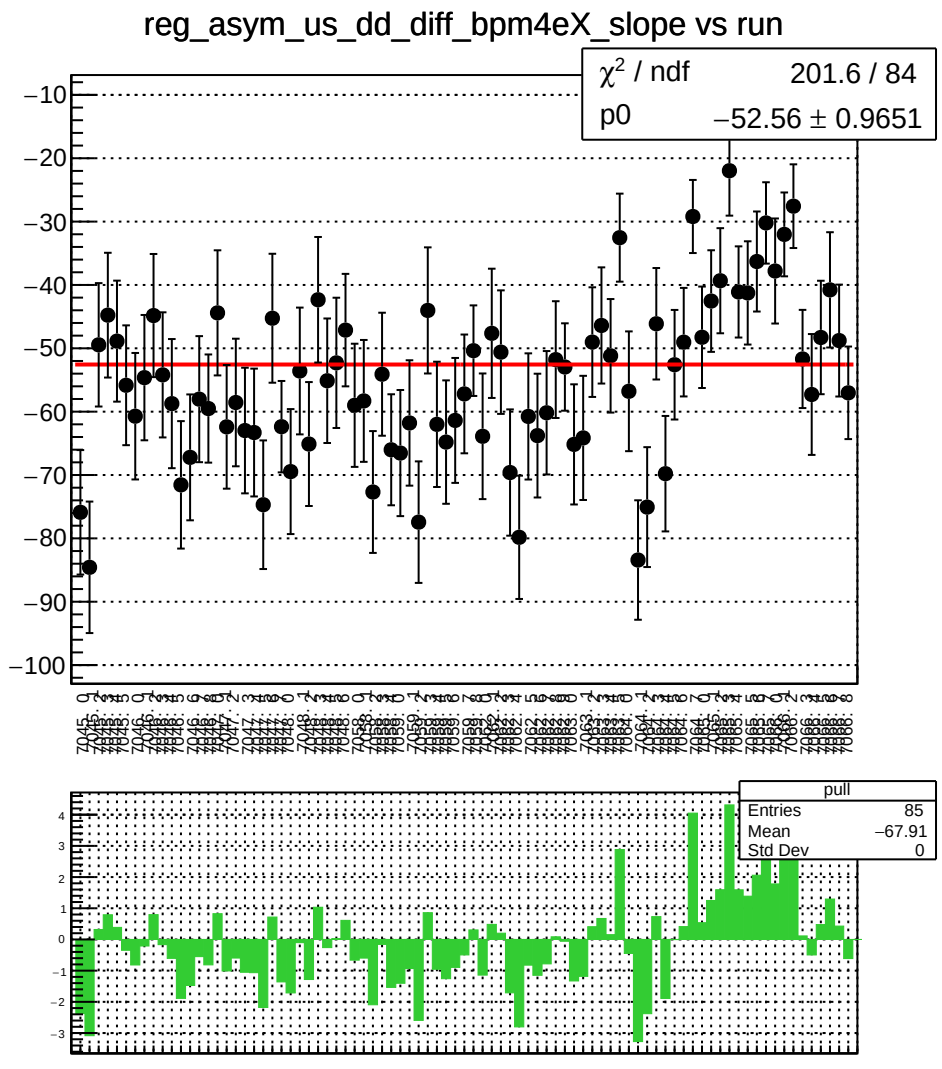

pull1D
Entries 85
Mean 0.006995
Std Dev 0.6019

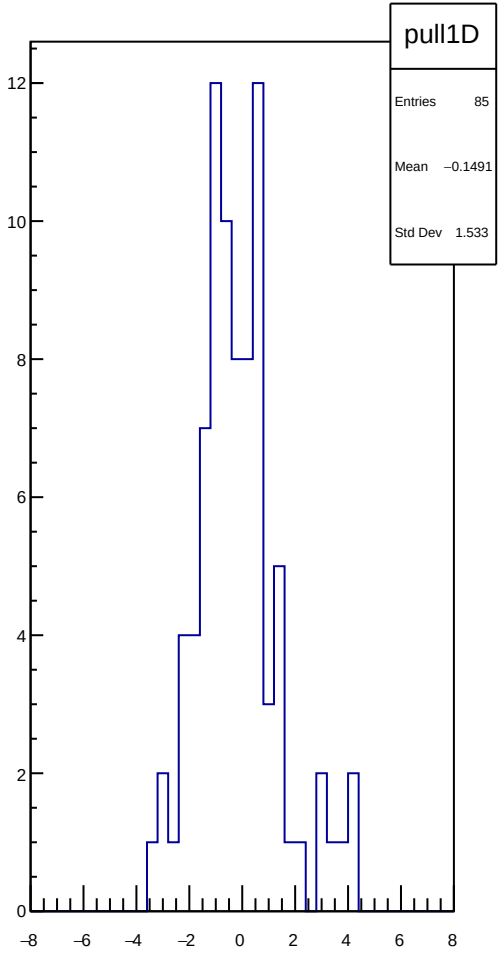

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 40.1 / 84
p0 −38.16 ± 0.06403
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
pull
Entries 85
Mean 529.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean 0.0165
Std Dev 0.6866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

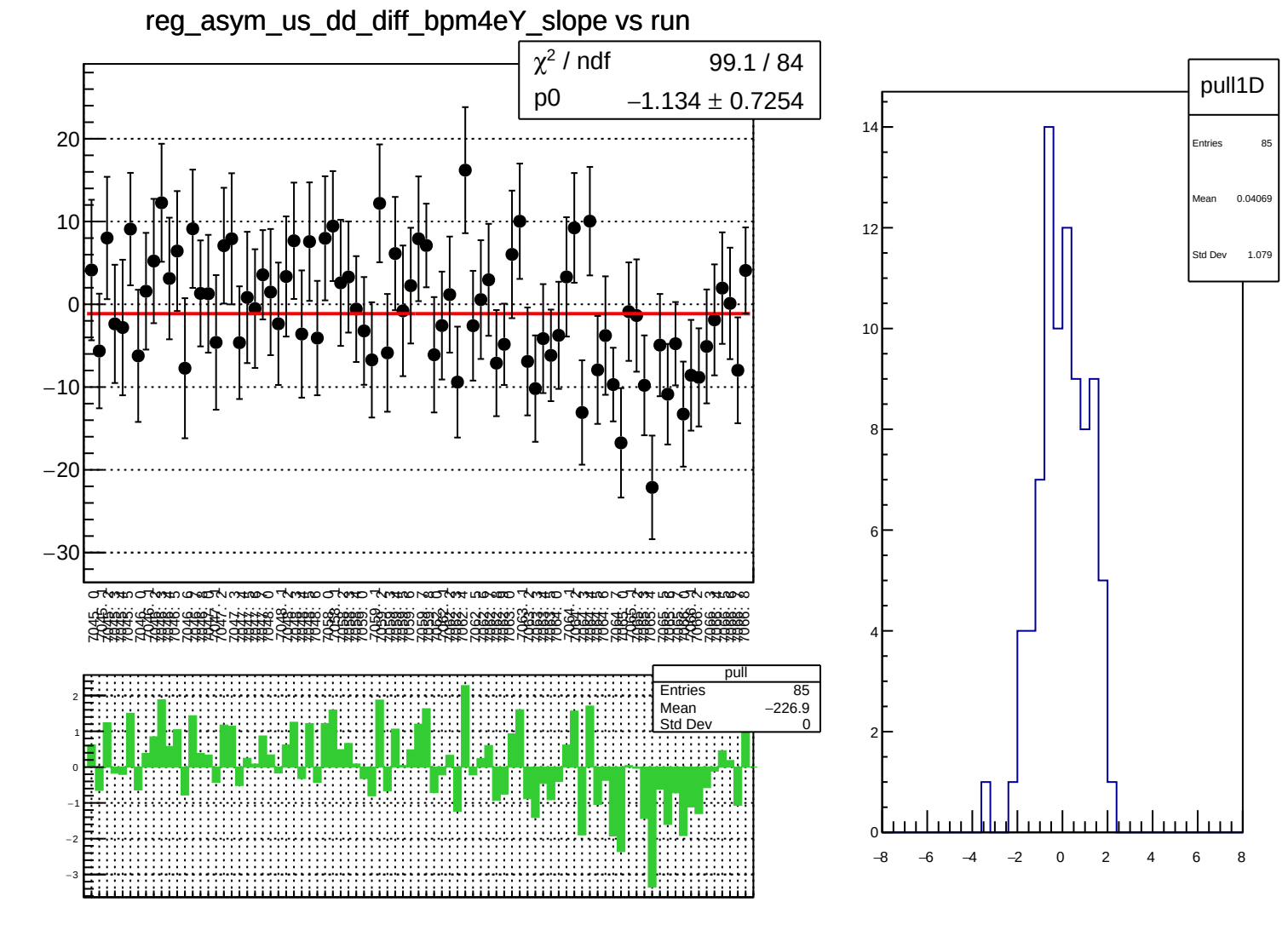

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 195.1 / 84
p0 −8.473 ± 1.011
pull
Entries 85
Mean −60.76
Std Dev 0

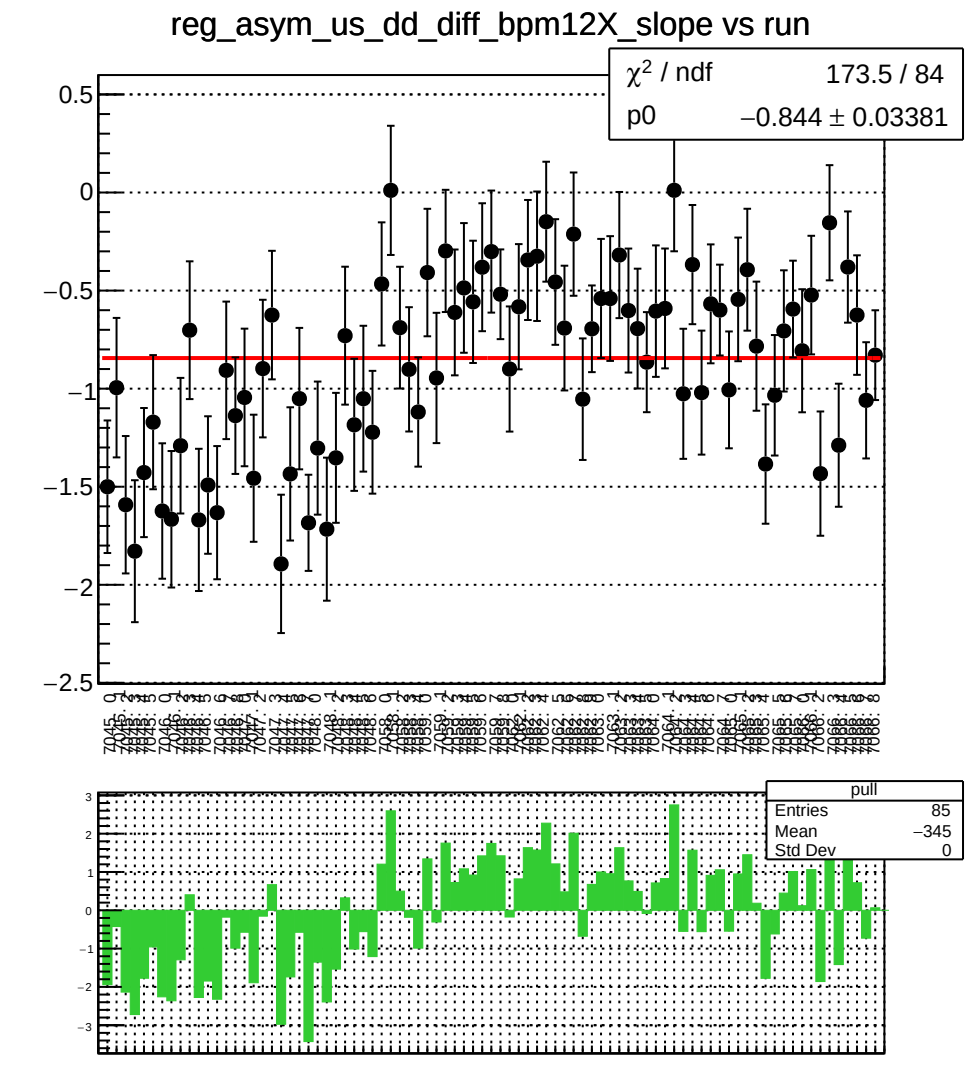

pull1D
Entries 85
Mean 0.1477
Std Dev 1.508

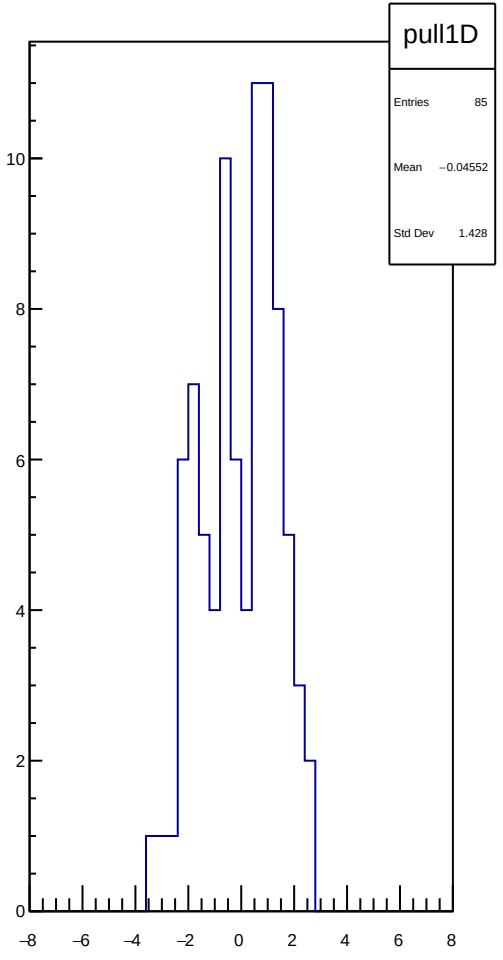

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.22 / 84
p0 2.87 ± 0.6814
pull
Entries 85
Mean −214.9
Std Dev 0
pull1D
Entries 85
Mean −0.0378
Std Dev 1.024

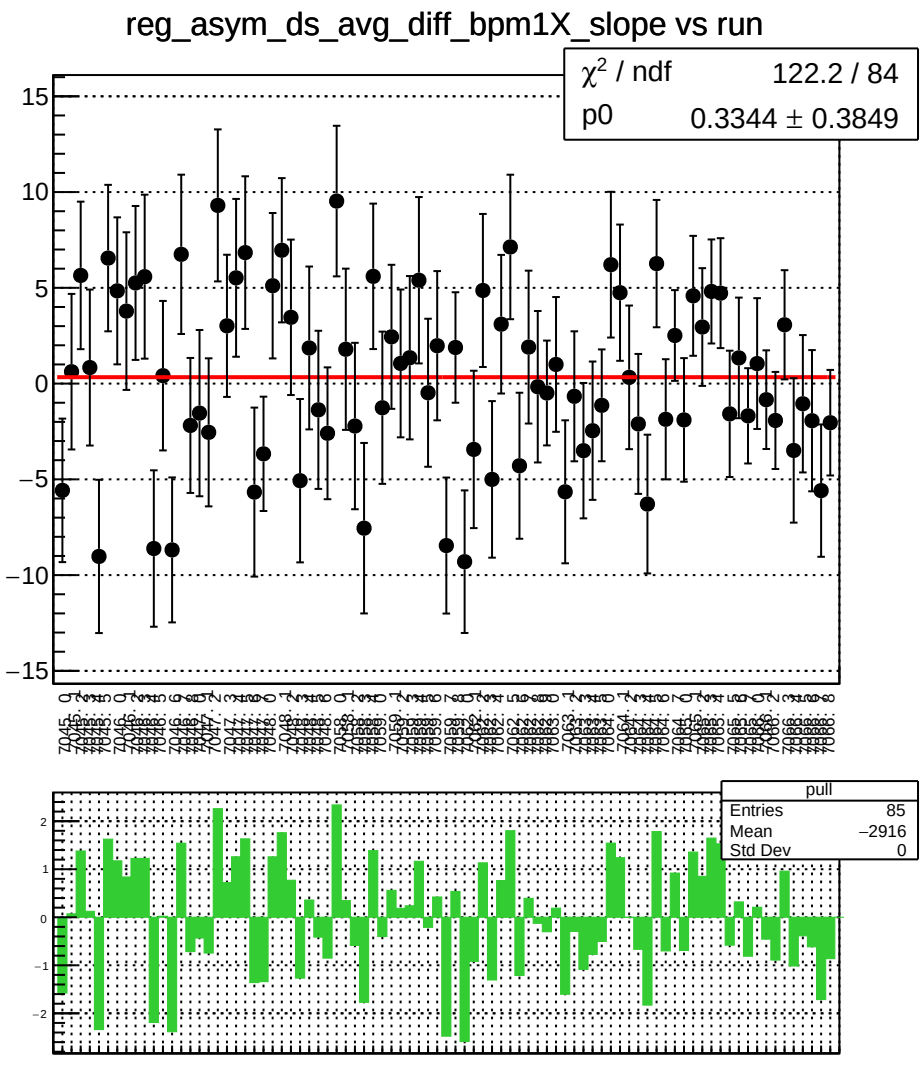

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 201.6 / 84
p0 −52.56 ± 0.9651
pull
Entries 85
Mean −67.91
Std Dev 0

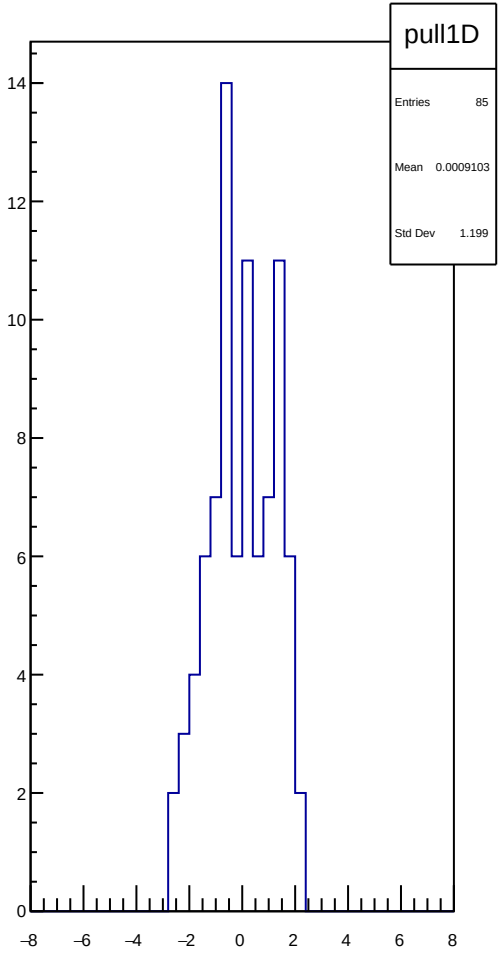

pull1D
Entries 85
Mean −0.1491
Std Dev 1.533

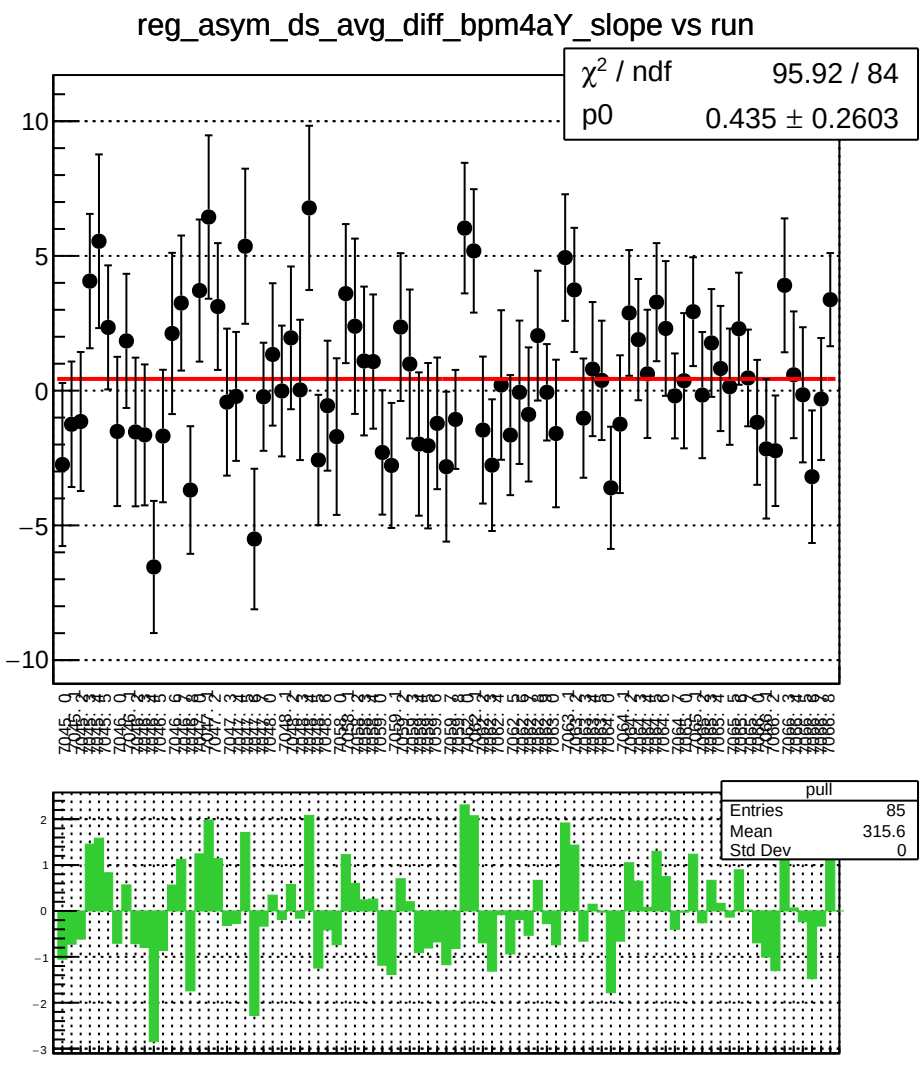

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.1 / 84
p0 −1.134 ± 0.7254
pull
Entries 85
Mean −226.9
Std Dev 0
pull1D
Entries 85
Mean 0.04069
Std Dev 1.079

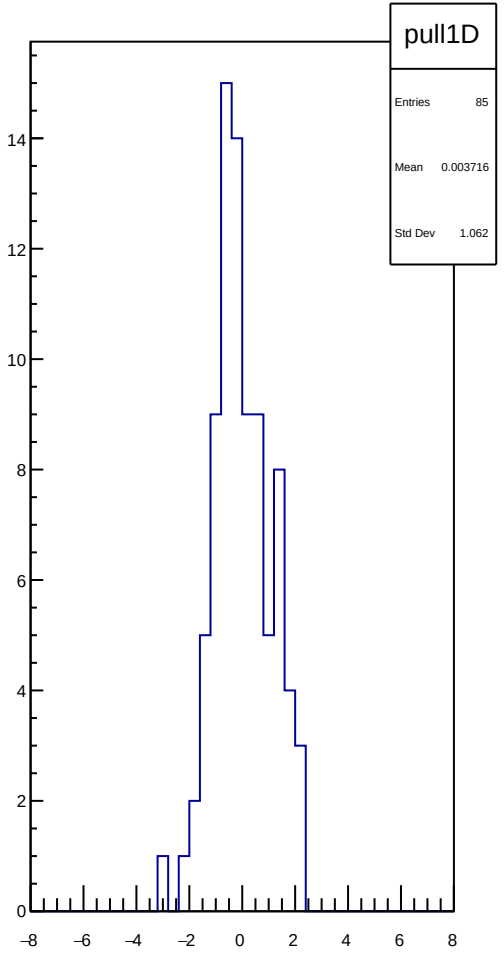

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 173.5 / 84
p0 −0.844 ± 0.03381
pull
Entries 85
Mean −345
Std Dev 0

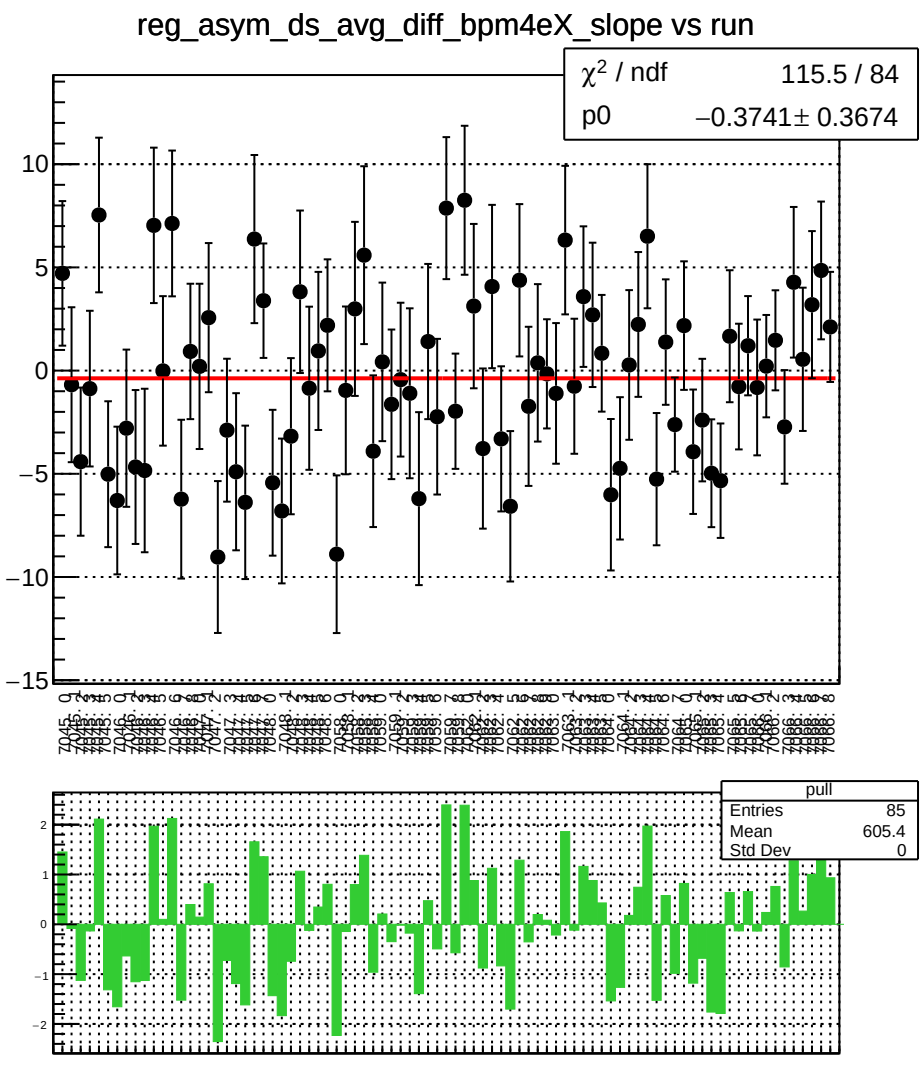

pull1D
Entries 85
Mean −0.04552
Std Dev 1.428

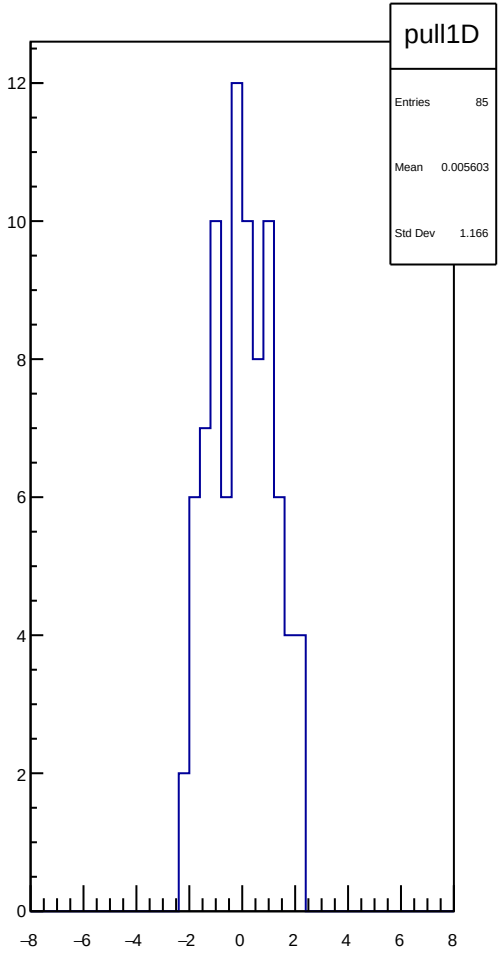

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 122.2 / 84
p0 0.3344 ± 0.3849
pull
Entries 85
Mean −2916
Std Dev 0

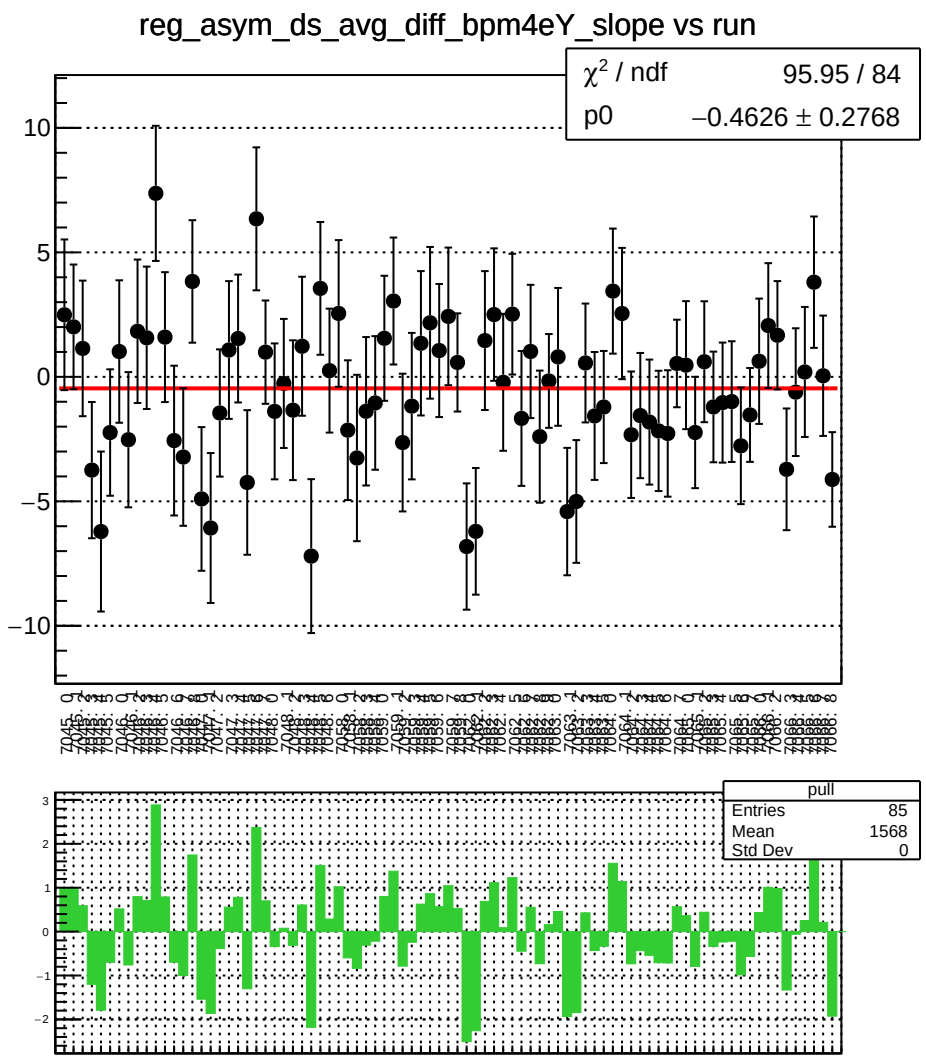

pull1D
Entries 85
Mean 0.0009103
Std Dev 1.199

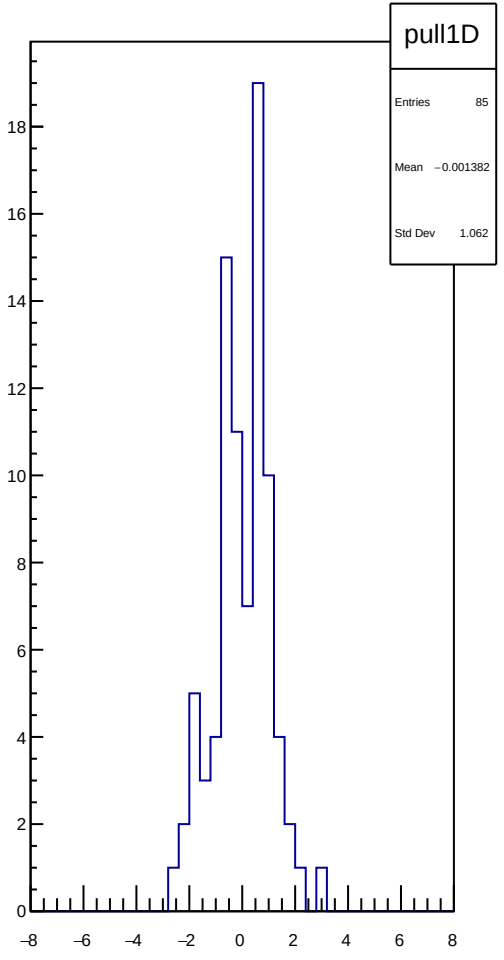

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.92 / 84
p0 0.435 ± 0.2603
pull
Entries 85
Mean 315.6
Std Dev 0

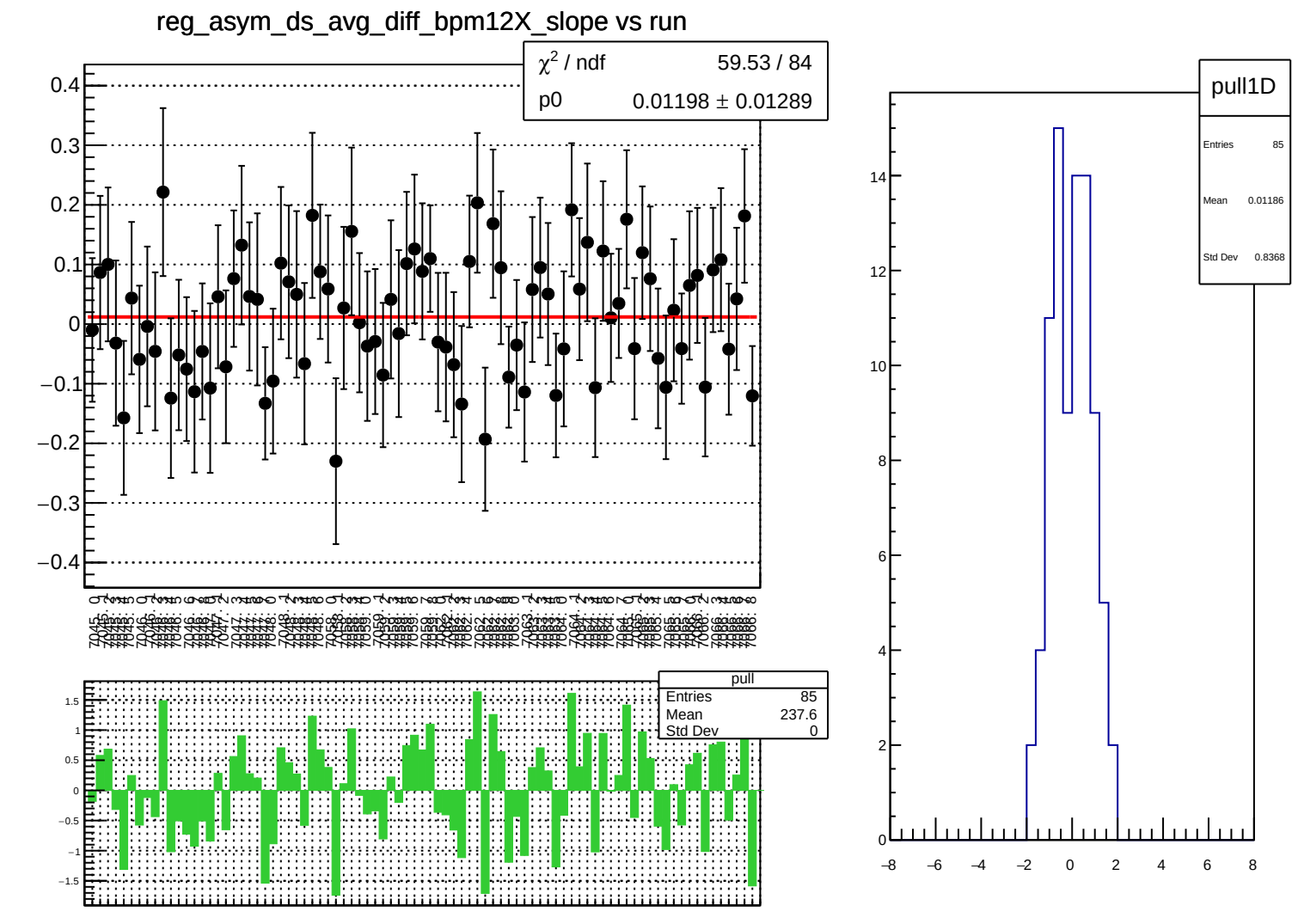

pull1D
Entries 85
Mean 0.003716
Std Dev 1.062

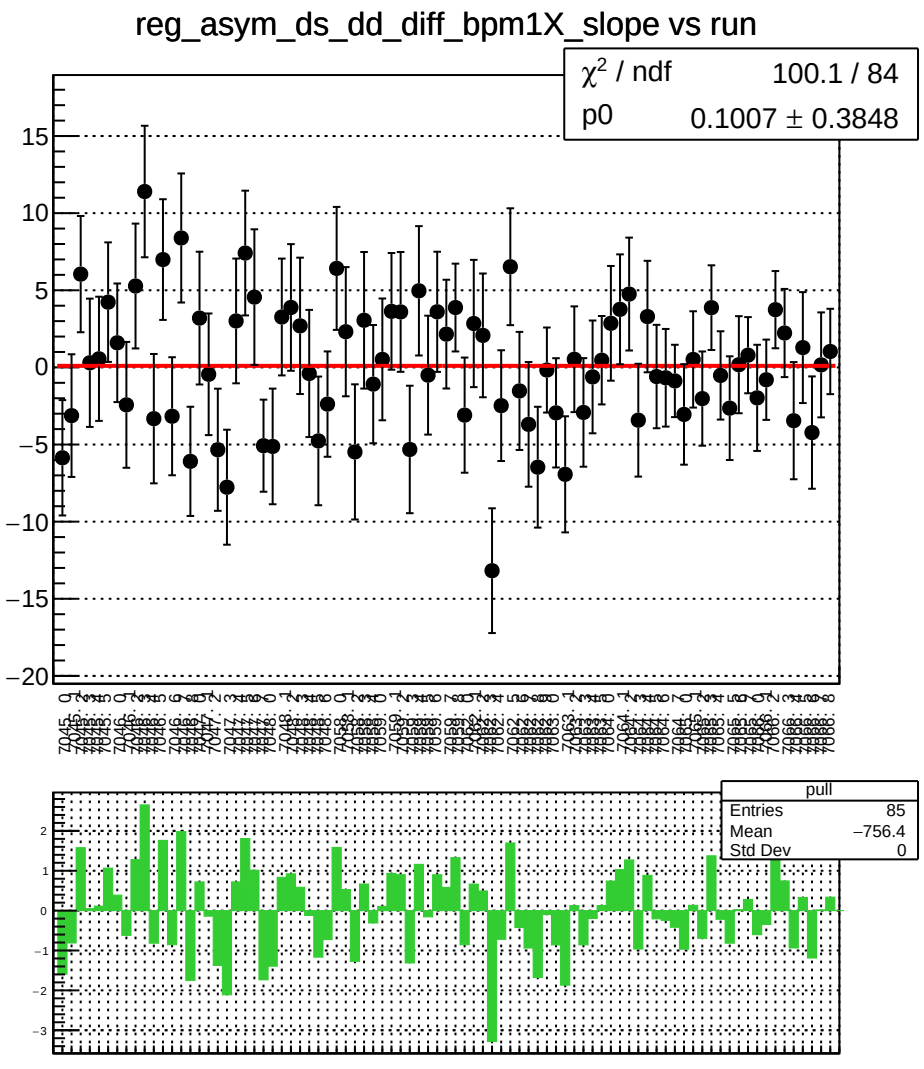

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 115.5 / 84
p0 −0.3741± 0.3674
pull
Entries 85
Mean 605.4
Std Dev 0

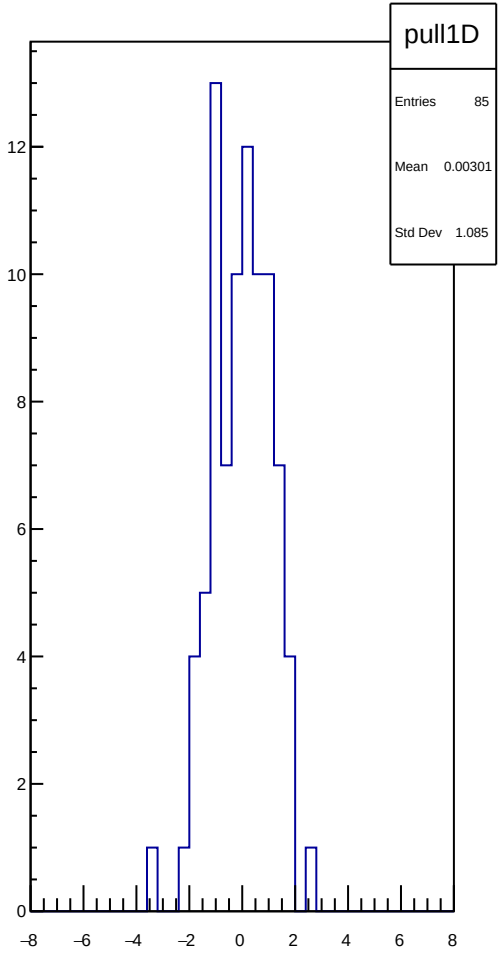

pull1D
Entries 85
Mean 0.005603
Std Dev 1.166

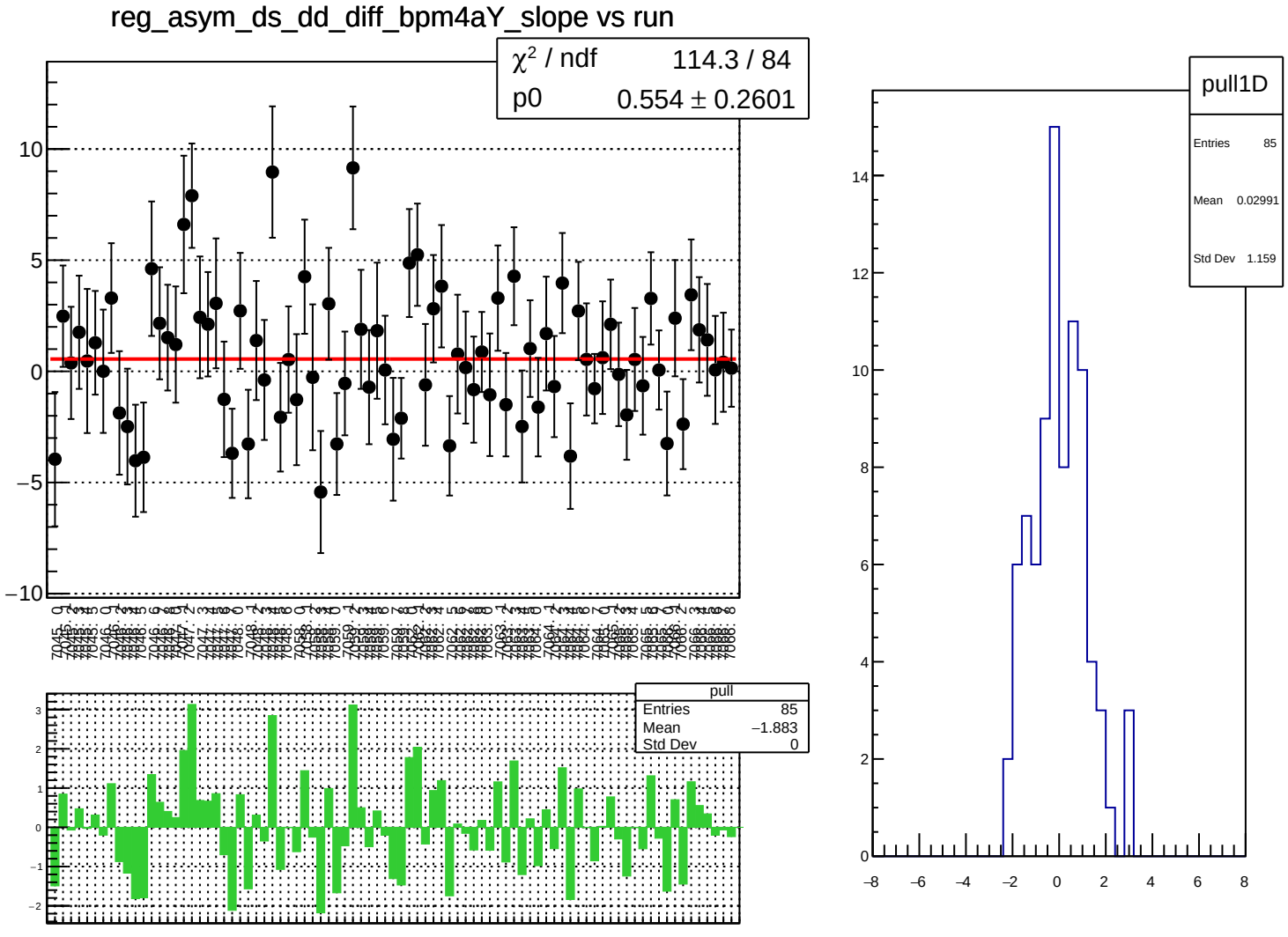

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.95 / 84
p0 −0.4626 ± 0.2768
pull
Entries 85
Mean 1568
Std Dev 0

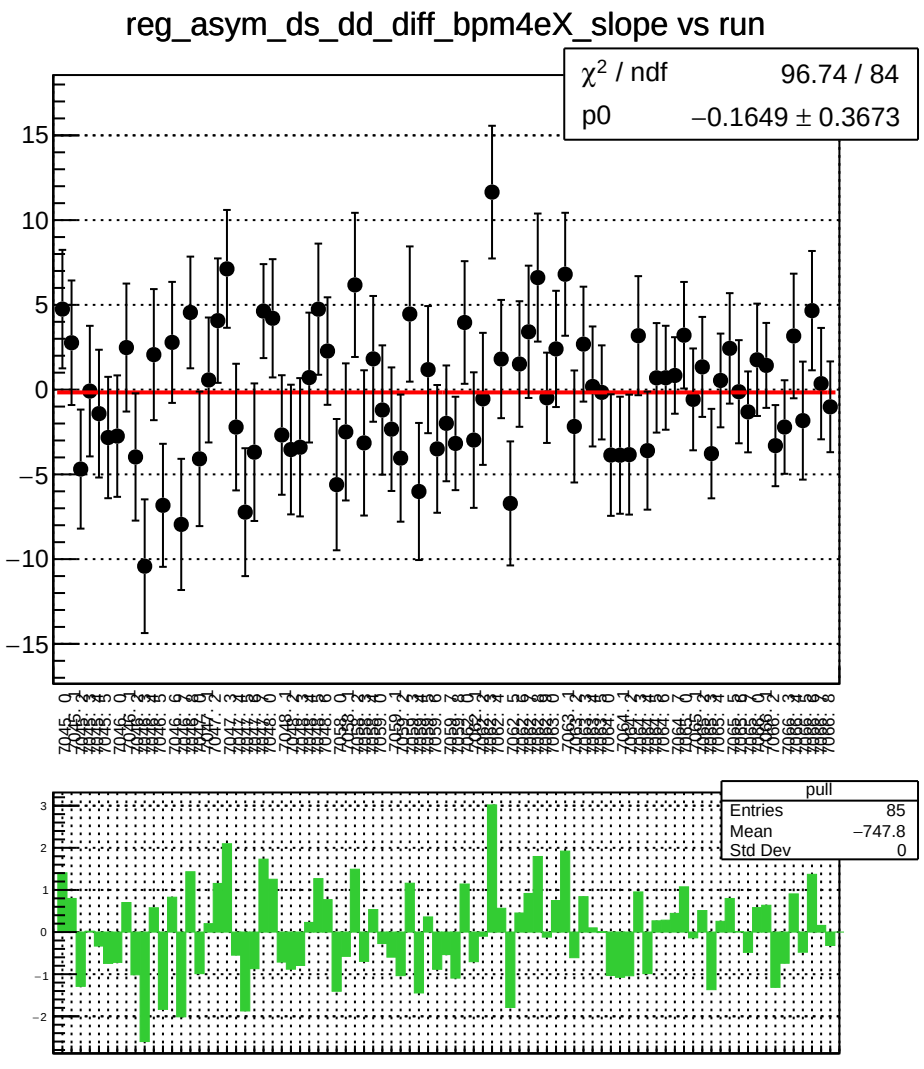

pull1D
Entries 85
Mean −0.001382
Std Dev 1.062

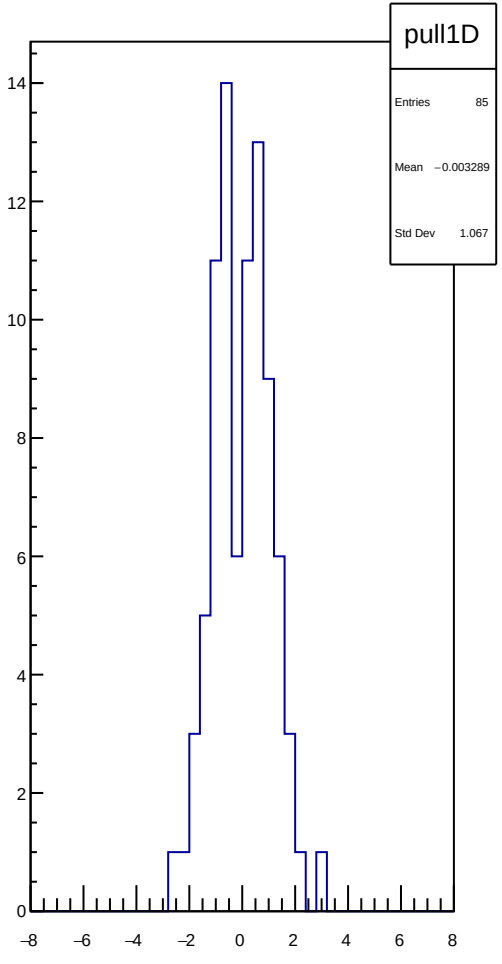

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 59.53 / 84
p0 0.01198 ± 0.01289
pull
Entries 85
Mean 237.6
Std Dev 0
pull1D
Entries 85
Mean 0.01186
Std Dev 0.8368

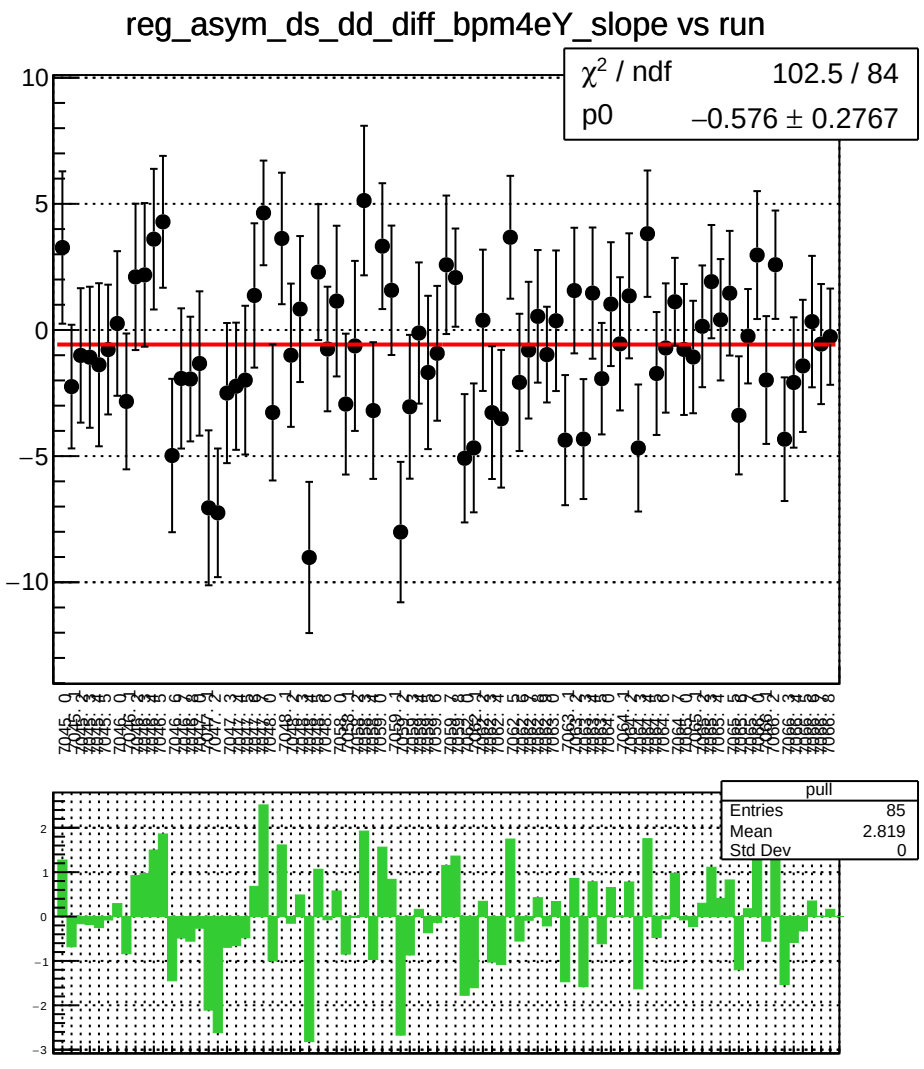

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 84
p0 0.1007 ± 0.3848
pull
Entries 85
Mean −756.4
Std Dev 0

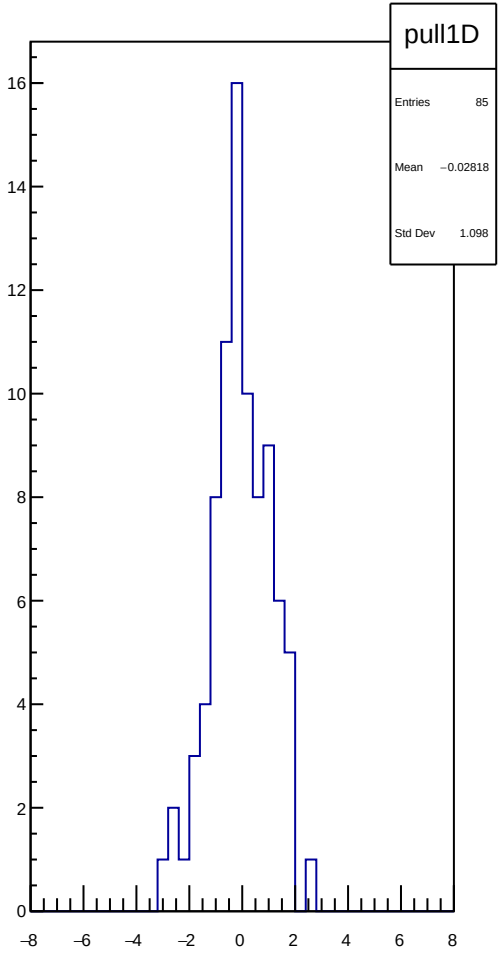

pull1D
Entries 85
Mean 0.00301
Std Dev 1.085

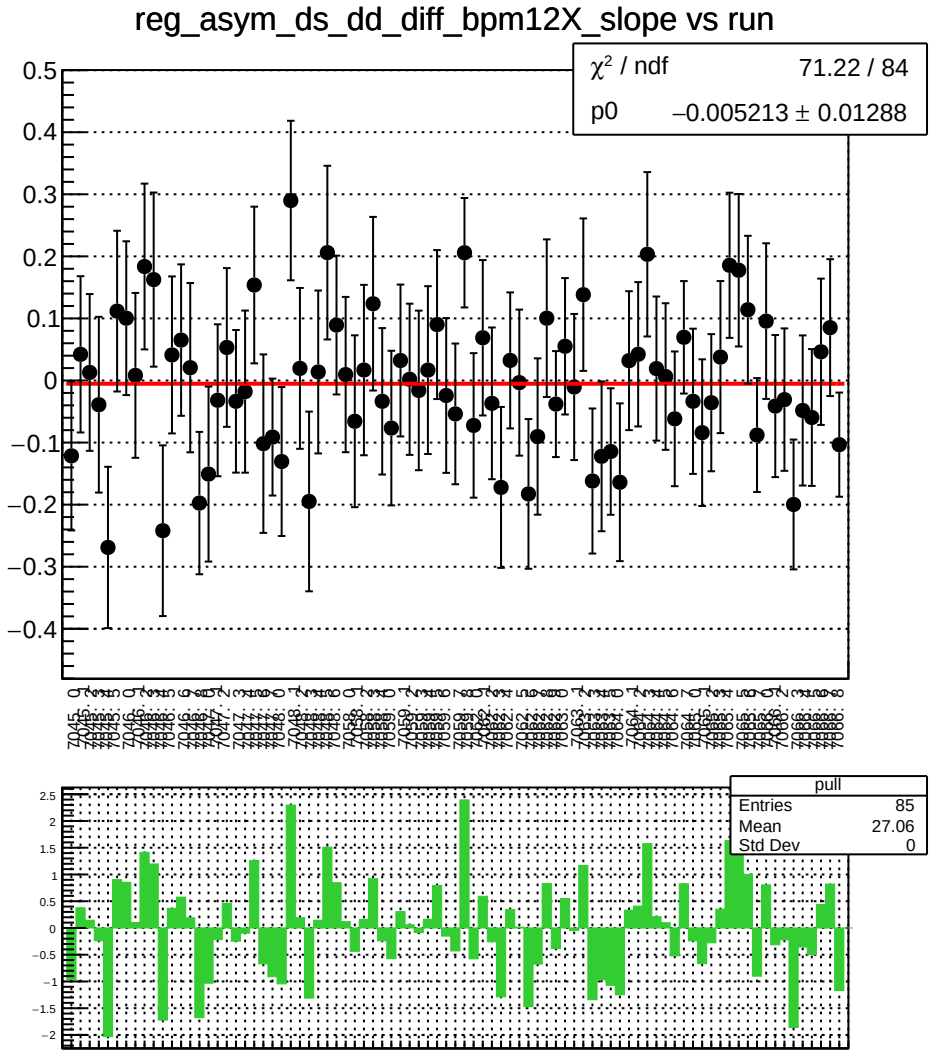

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 114.3 / 84
p0 0.554 ± 0.2601
pull
Entries 85
Mean −1.883
Std Dev 0
pull1D
Entries 85
Mean 0.02991
Std Dev 1.159

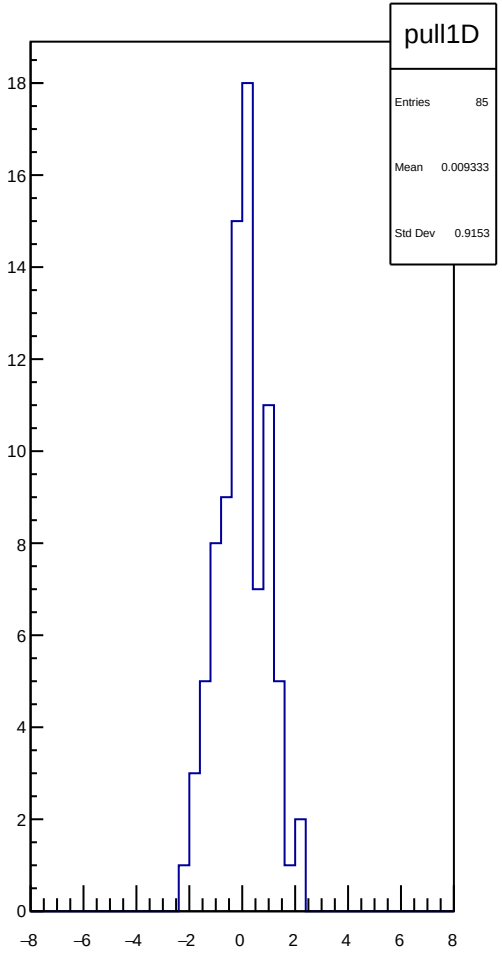

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.74 / 84
p0 −0.1649 ± 0.3673
pull
Entries 85
Mean −747.8
Std Dev 0

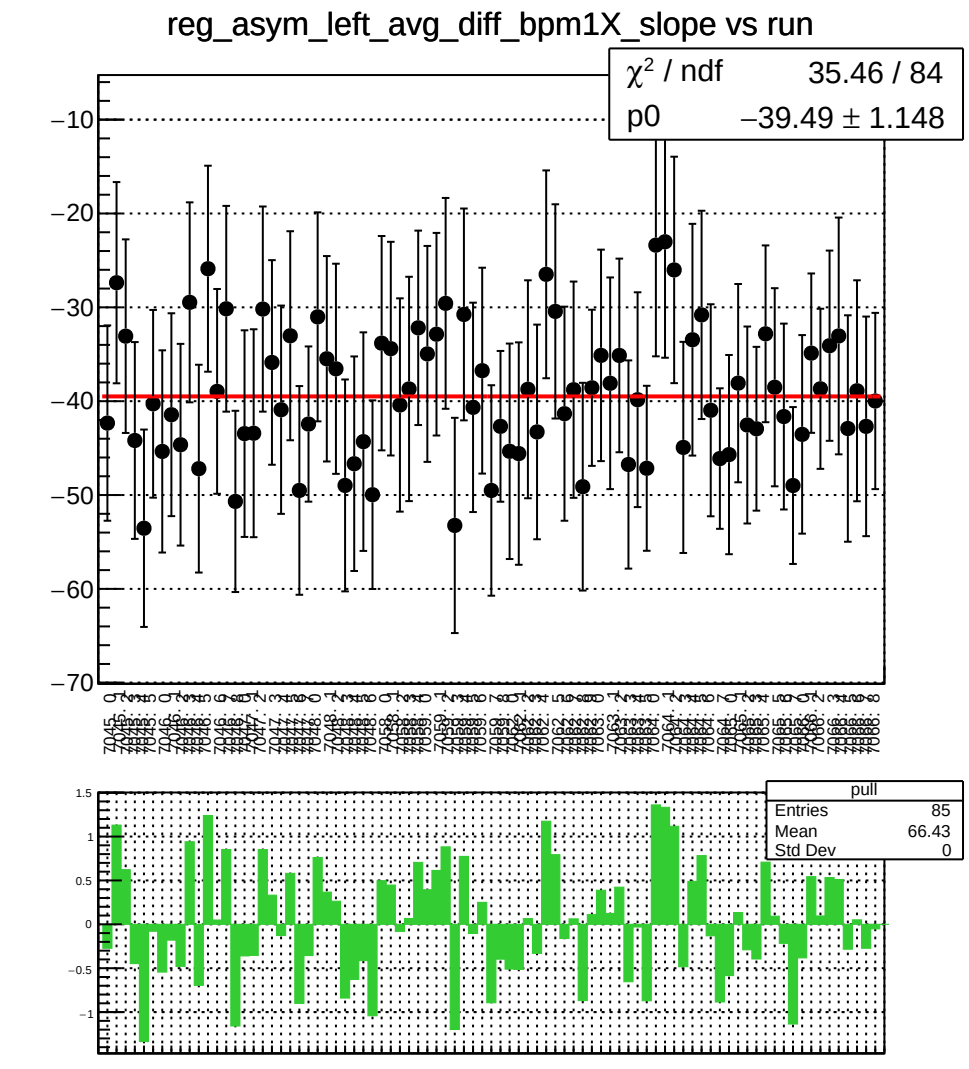

pull1D
Entries 85
Mean −0.003289
Std Dev 1.067

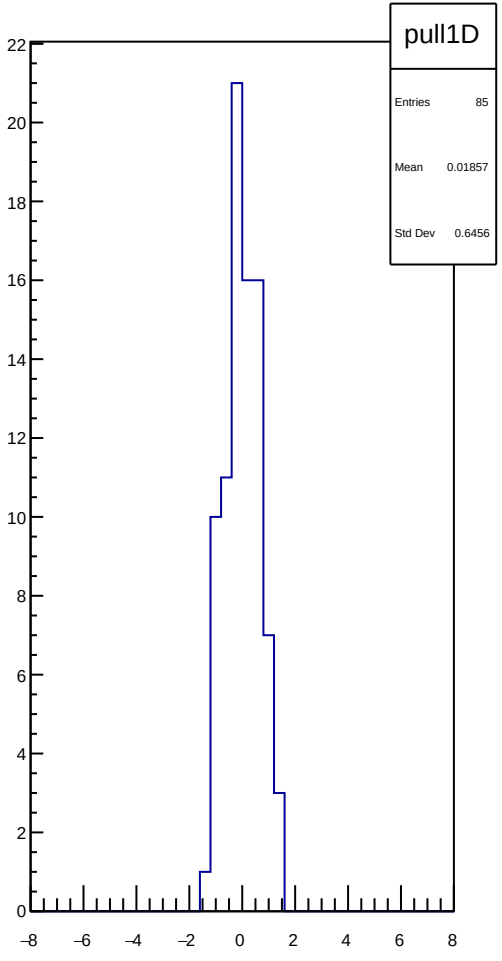

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.5 / 84
p0 −0.576 ± 0.2767
pull
Entries 85
Mean 2.819
Std Dev 0

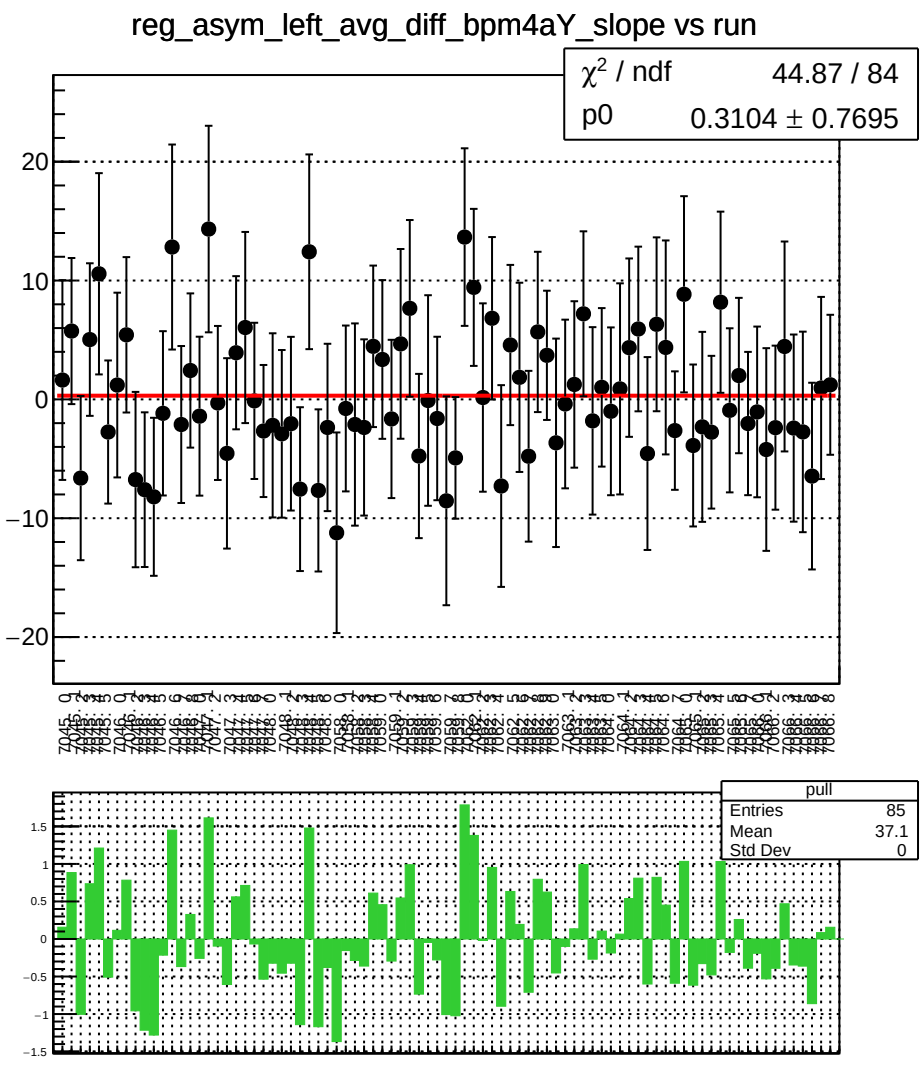

pull1D
Entries 85
Mean −0.02818
Std Dev 1.098

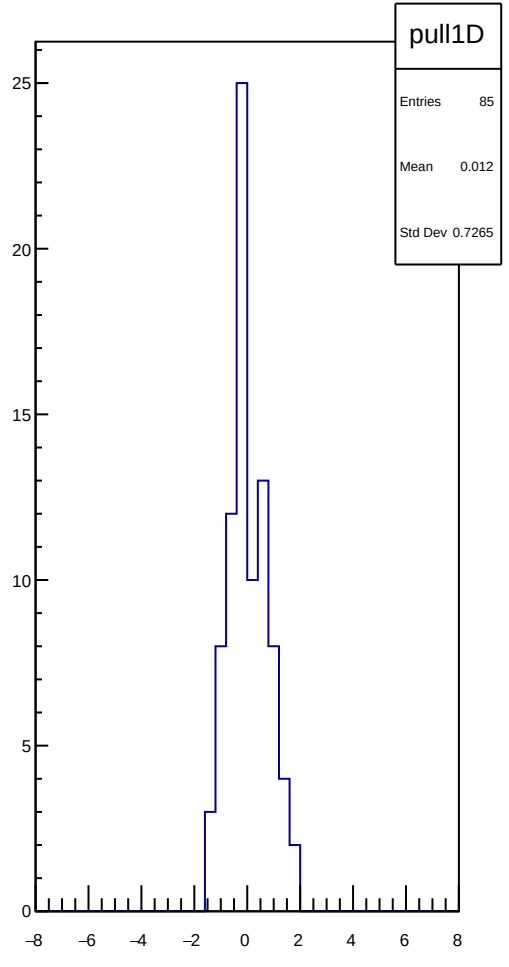

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 71.22 / 84
p0 −0.005213 ± 0.01288
pull
Entries 85
Mean 27.06
Std Dev 0

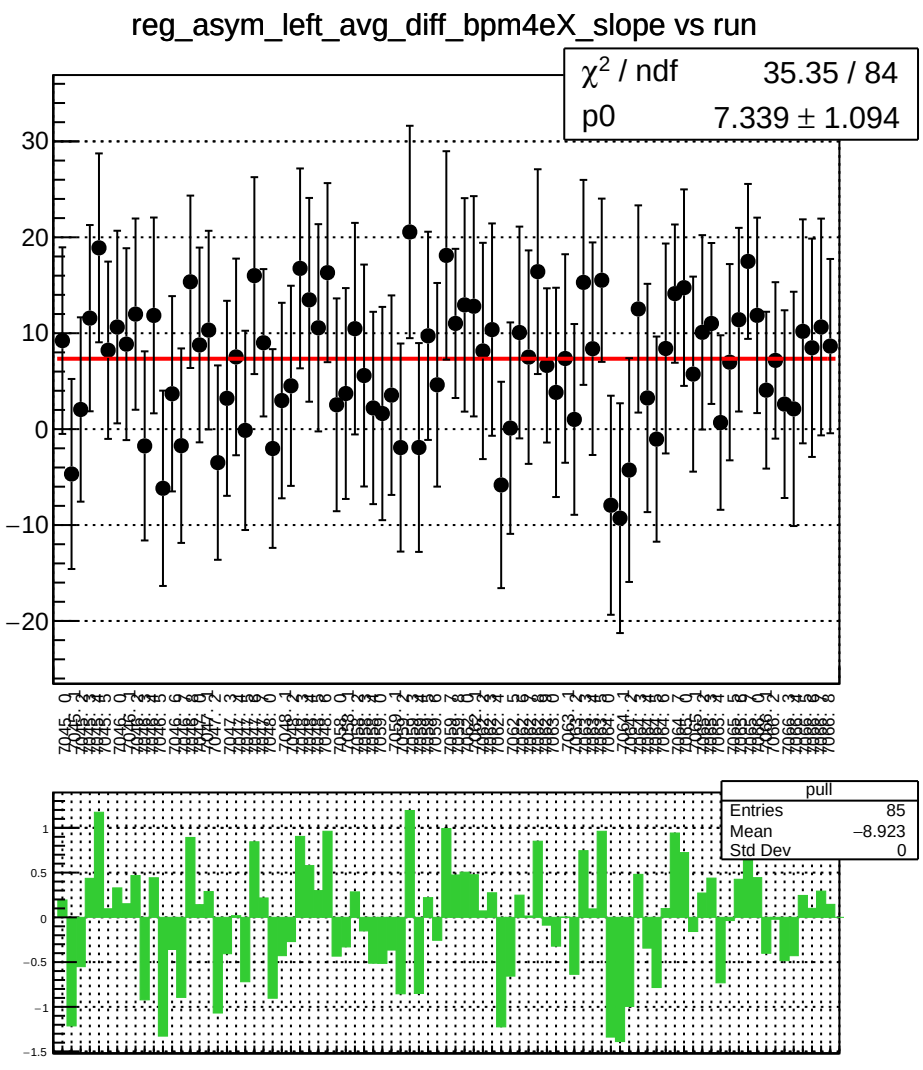

pull1D
Entries 85
Mean 0.009333
Std Dev 0.9153

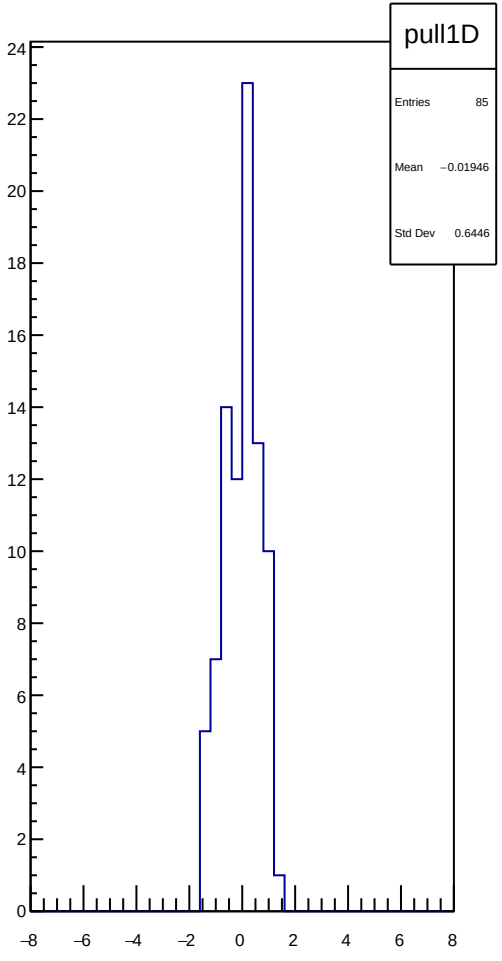

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 35.46 / 84
p0 −39.49 ± 1.148
pull
Entries 85
Mean 66.43
Std Dev 0

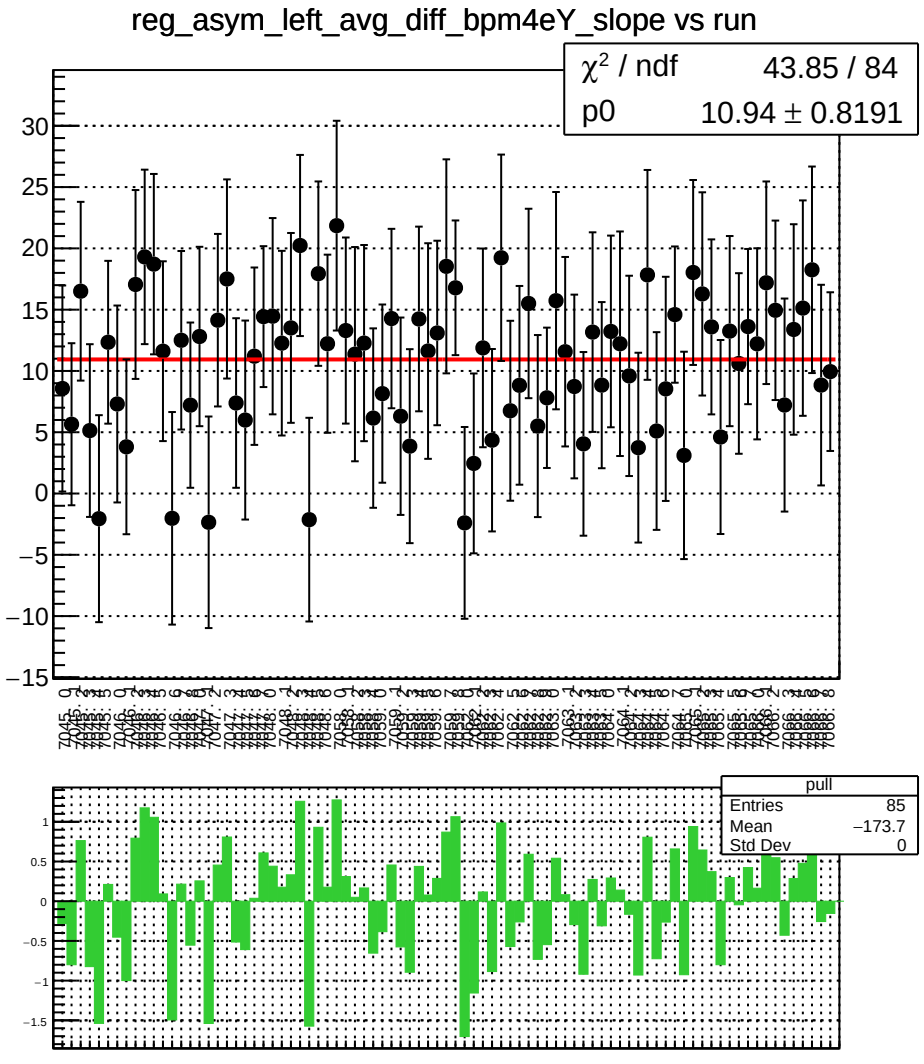

pull1D
Entries 85
Mean 0.01857
Std Dev 0.6456

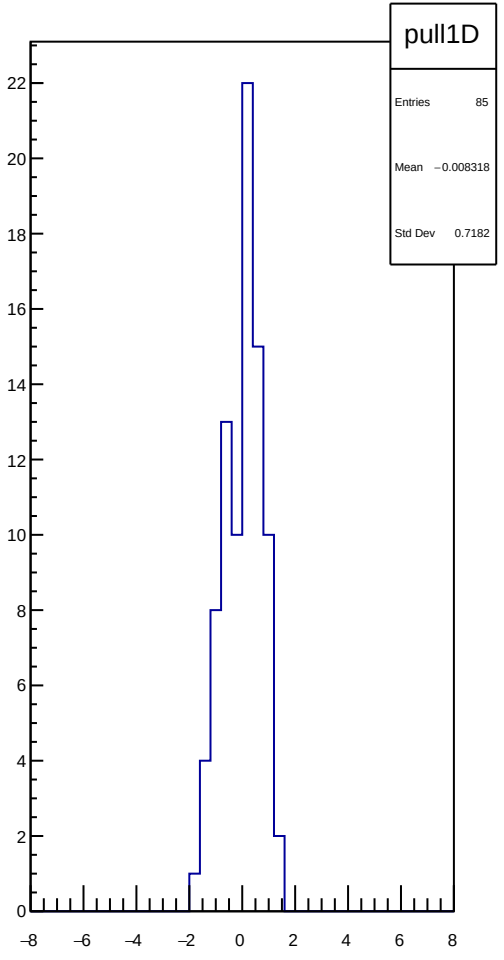

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.87 / 84
p0 0.3104 ± 0.7695
pull
Entries 85
Mean 37.1
Std Dev 0

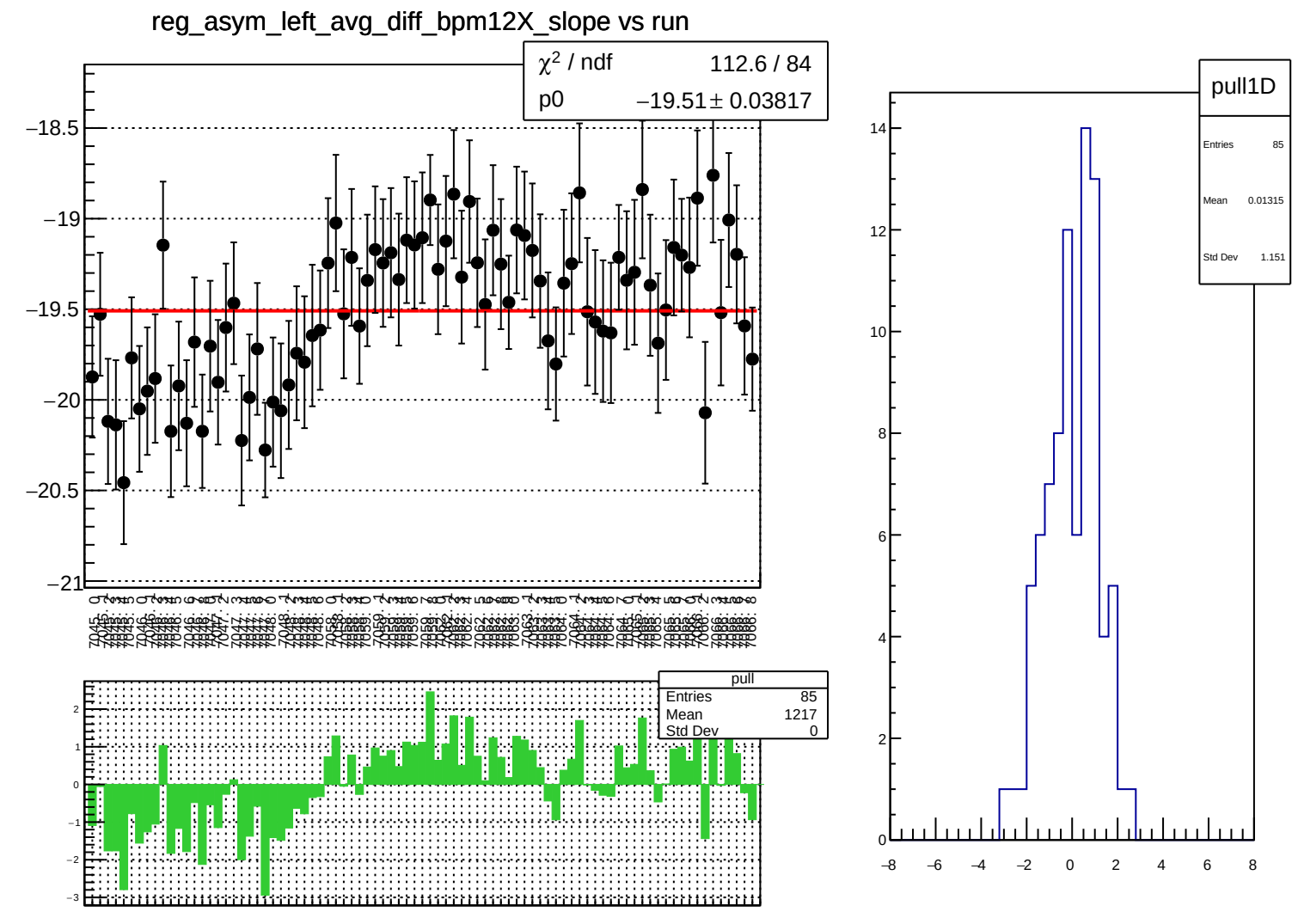

pull1D
Entries 85
Mean 0.012
Std Dev 0.7265

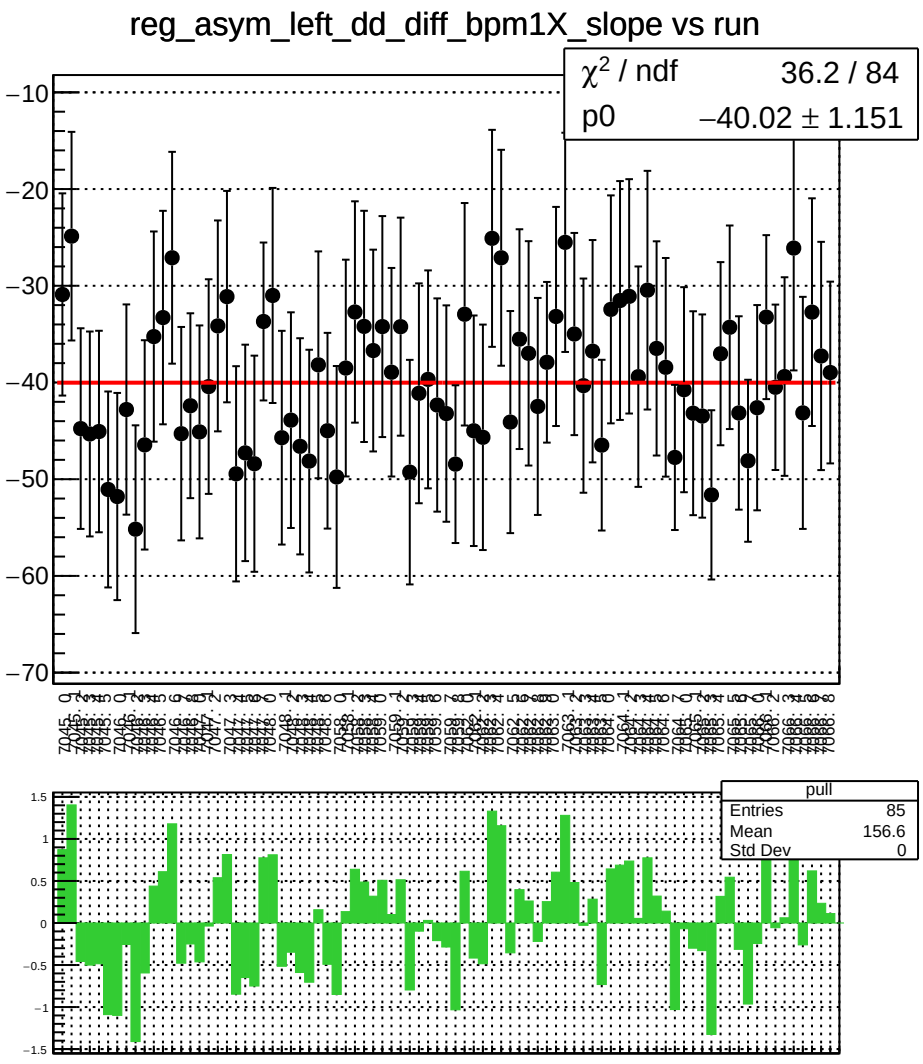

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.35 / 84
p0 7.339 ± 1.094
pull
Entries 85
Mean −8.923
Std Dev 0

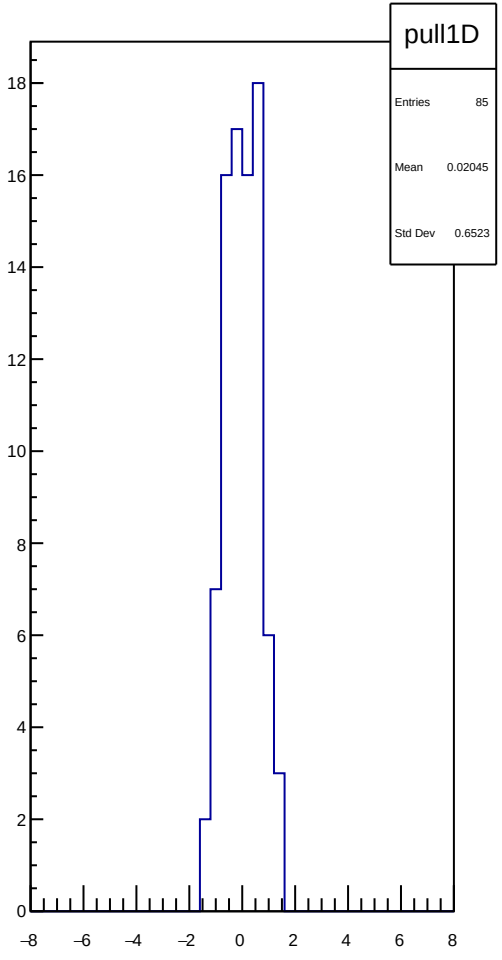

pull1D
Entries 85
Mean −0.01946
Std Dev 0.6446

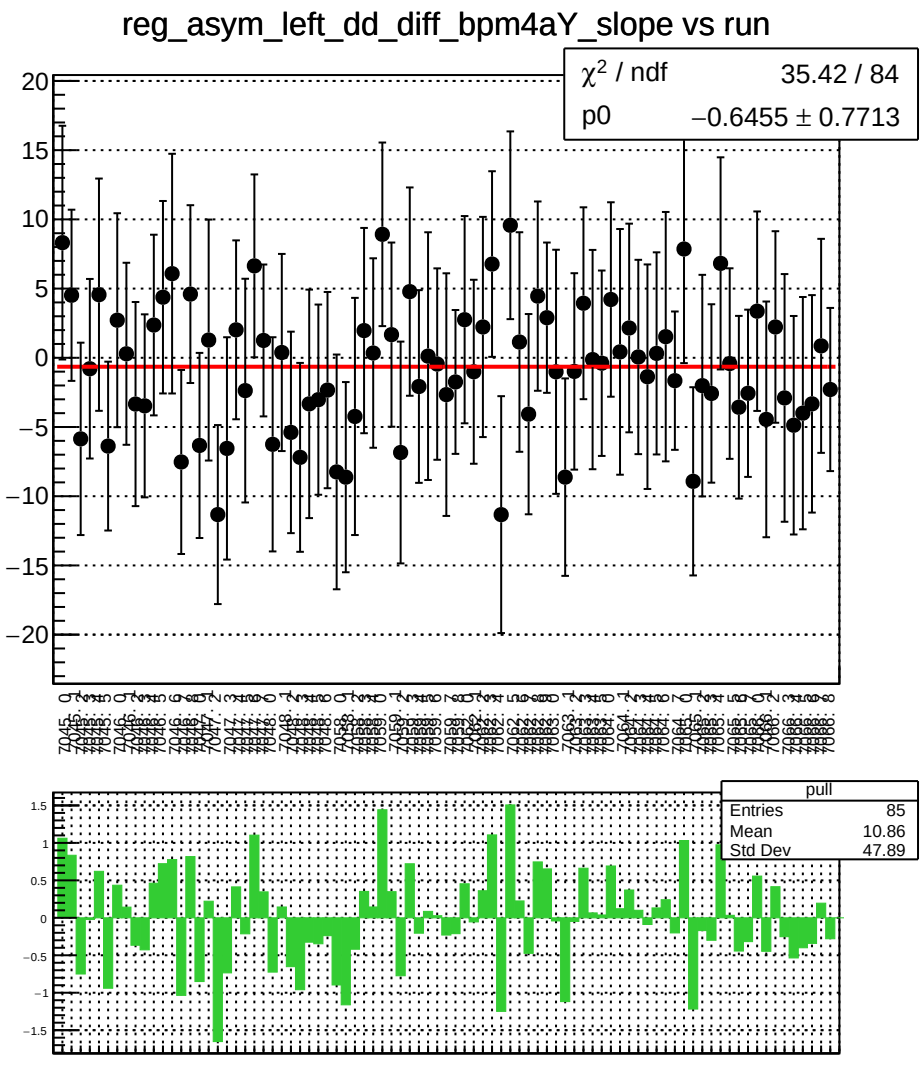

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.85 / 84
p0 10.94 ± 0.8191
pull
Entries 85
Mean −173.7
Std Dev 0

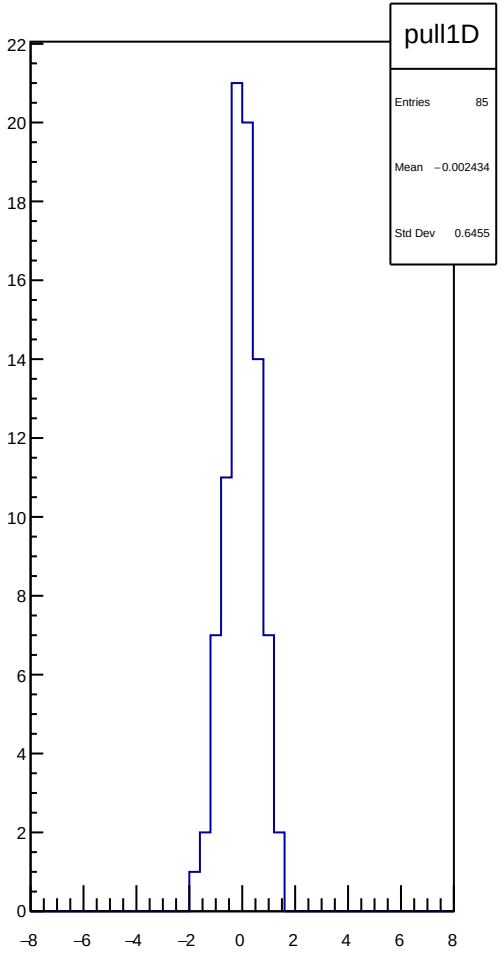

pull1D
Entries 85
Mean −0.008318
Std Dev 0.7182

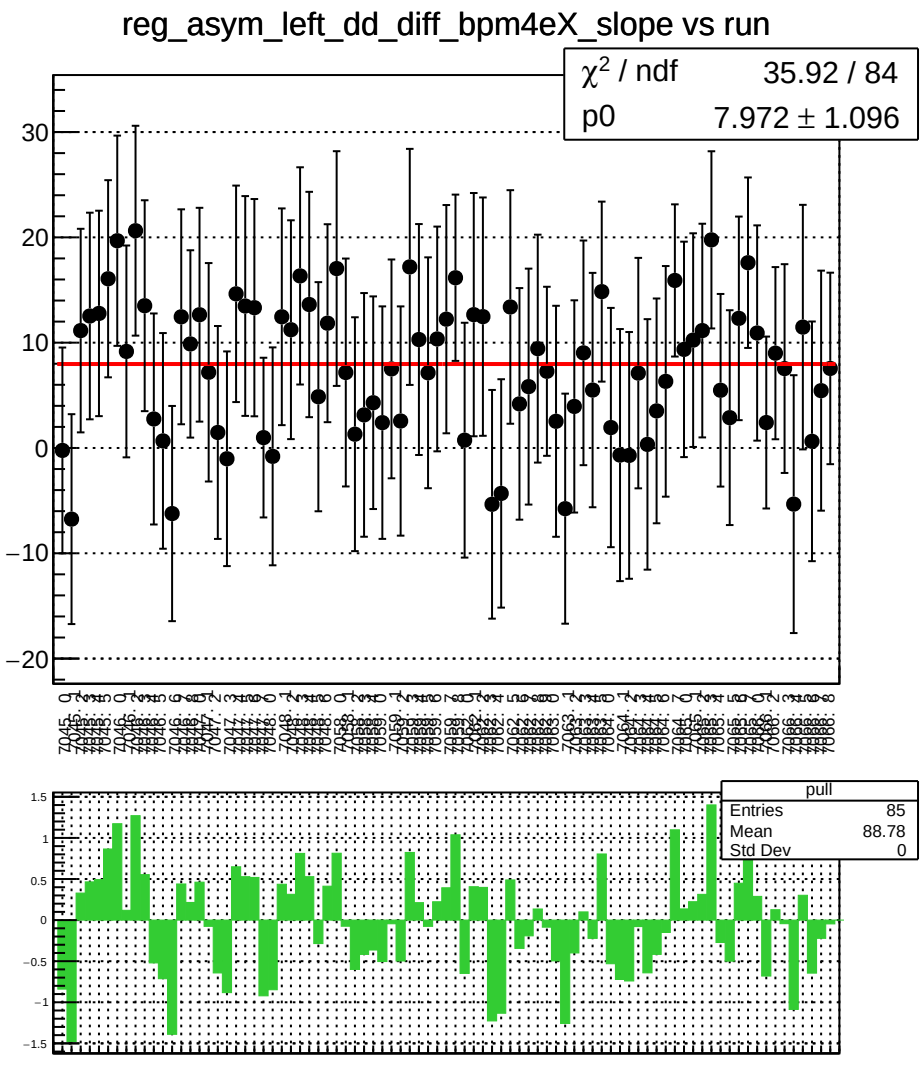

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 112.6 / 84
p0 −19.51 ± 0.03817
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 85
Mean 1217
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01315
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

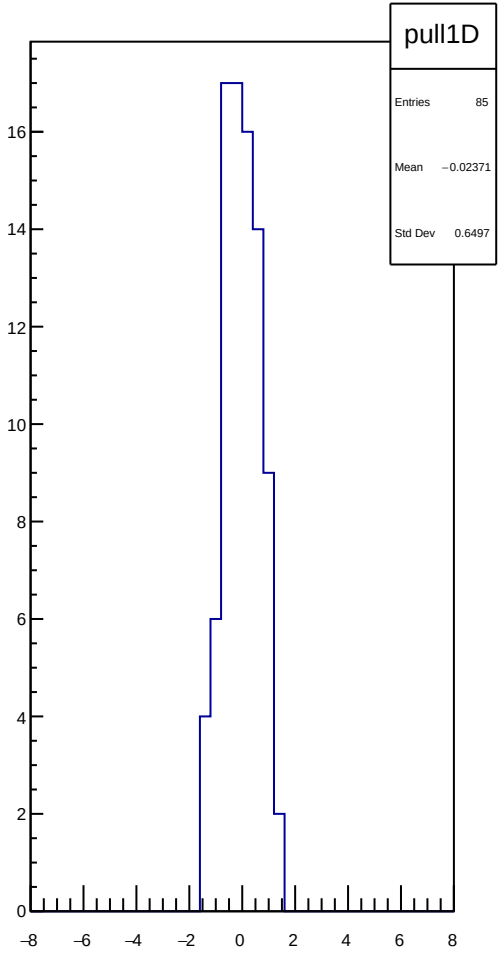

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 36.2 / 84
p0 −40.02 ± 1.151
pull
Entries 85
Mean 156.6
Std Dev 0

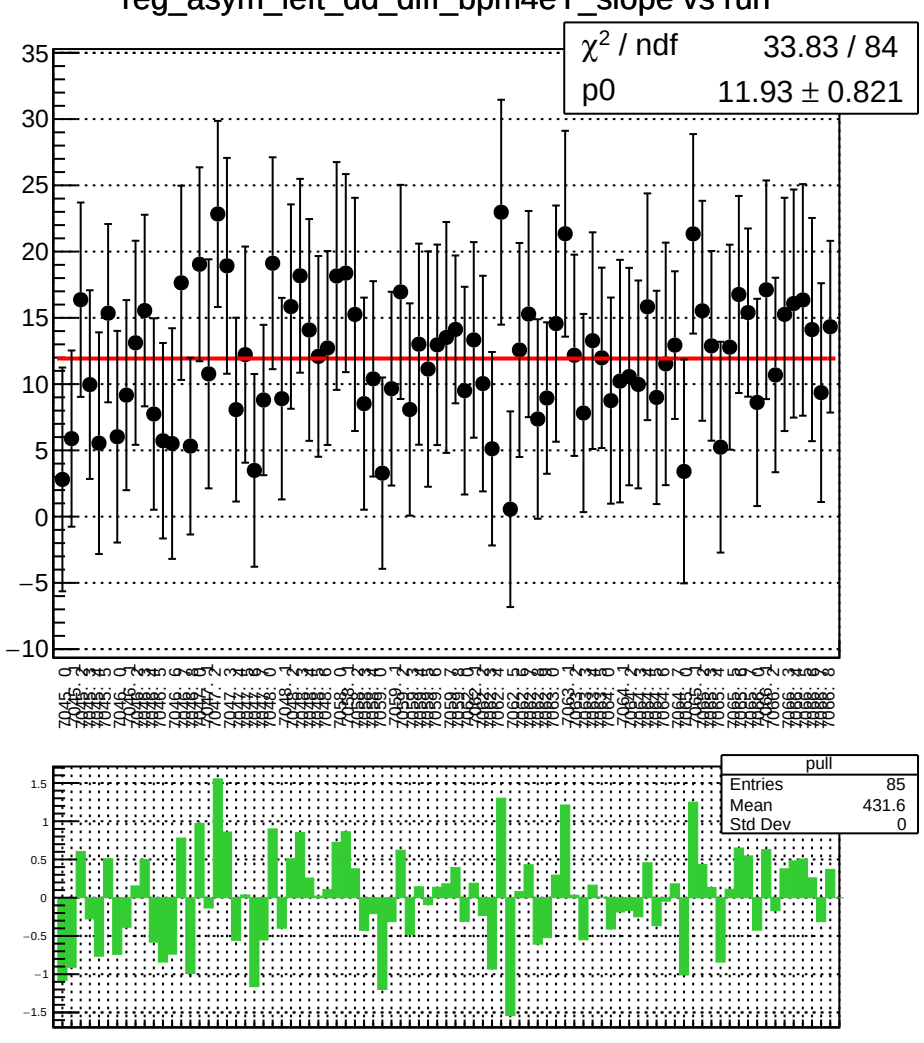

pull1D
Entries 85
Mean 0.02045
Std Dev 0.6523

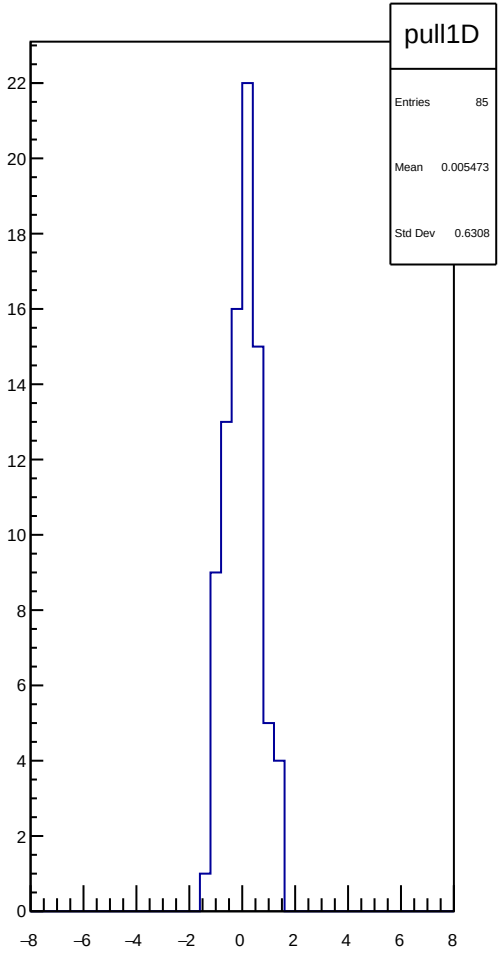

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.42 / 84
p0 −0.6455 ± 0.7713
pull
Entries 85
Mean 10.86
Std Dev 47.89

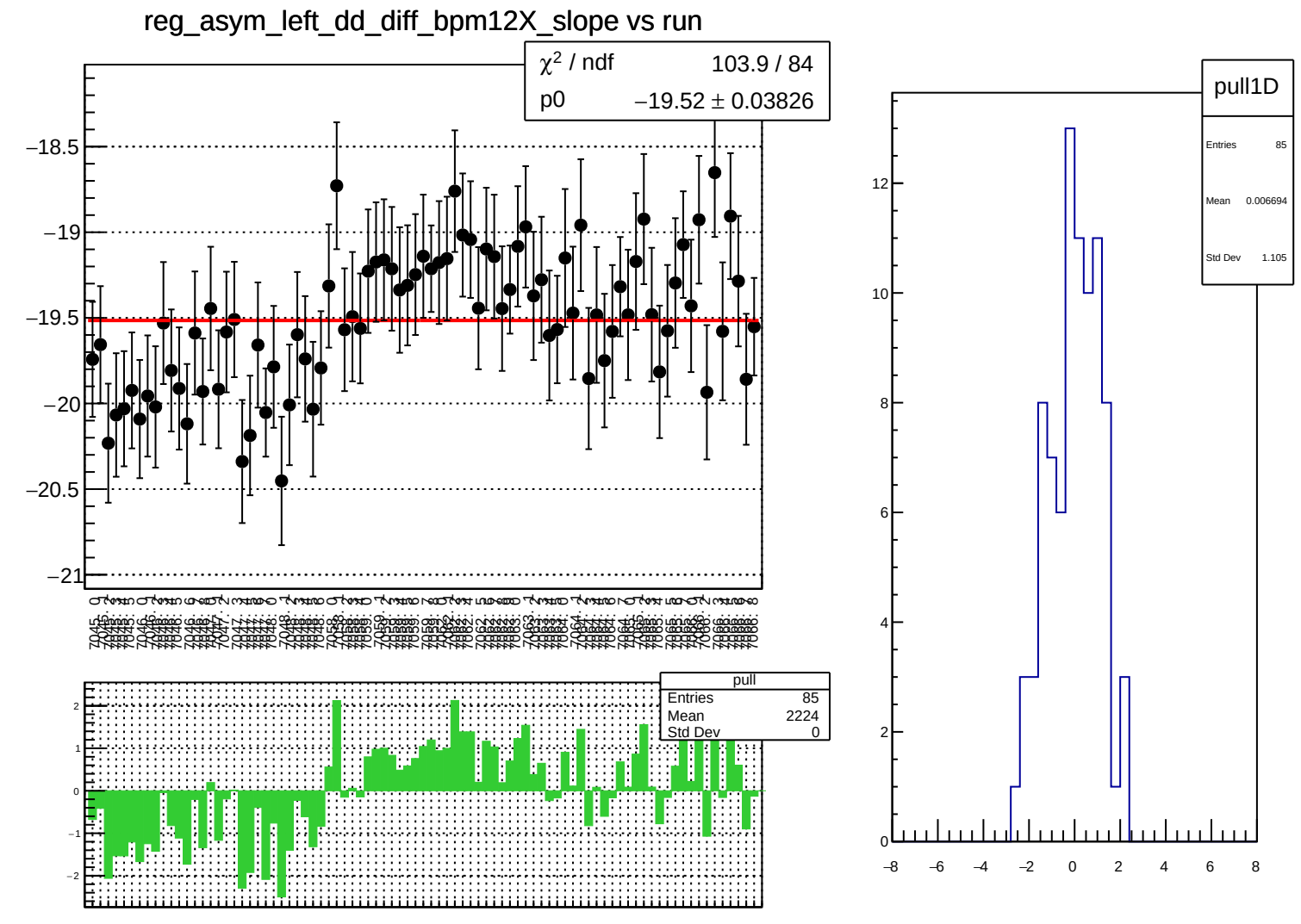

pull1D
Entries 85
Mean −0.002434
Std Dev 0.6455

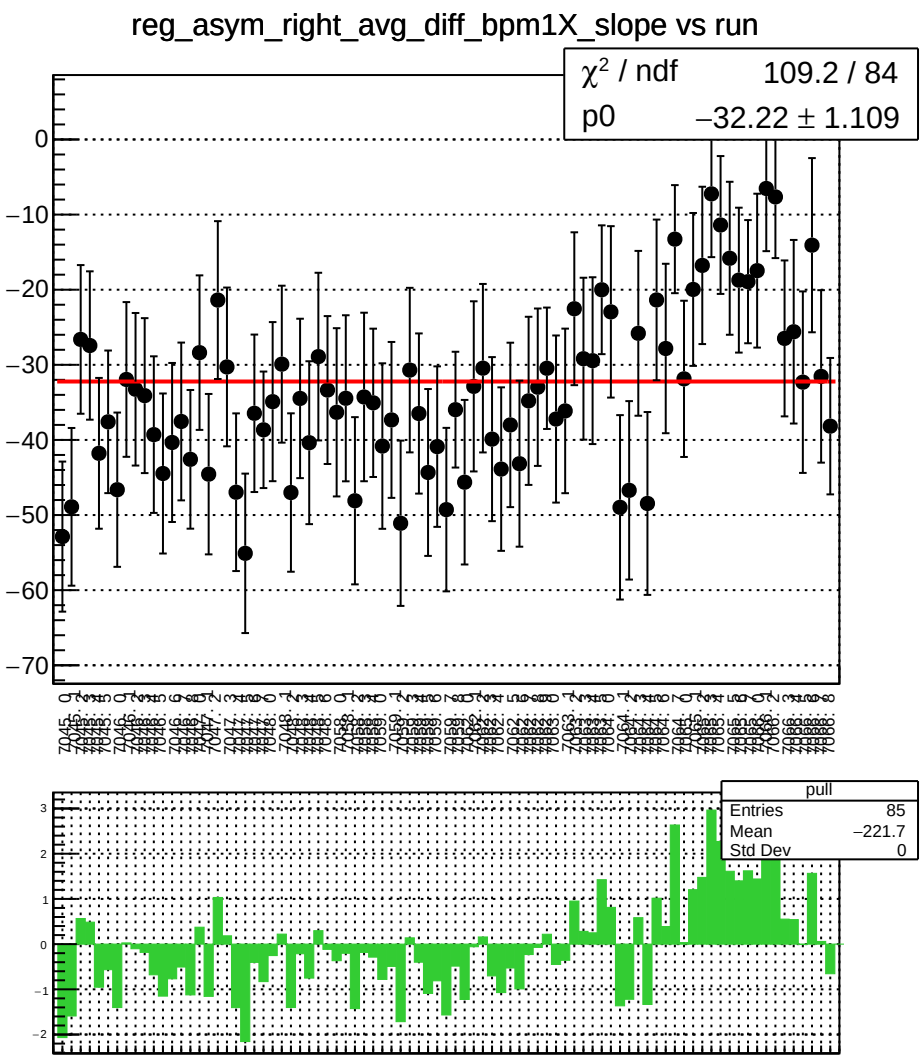

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.92 / 84
p0 7.972 ± 1.096
pull
Entries 85
Mean 88.78
Std Dev 0

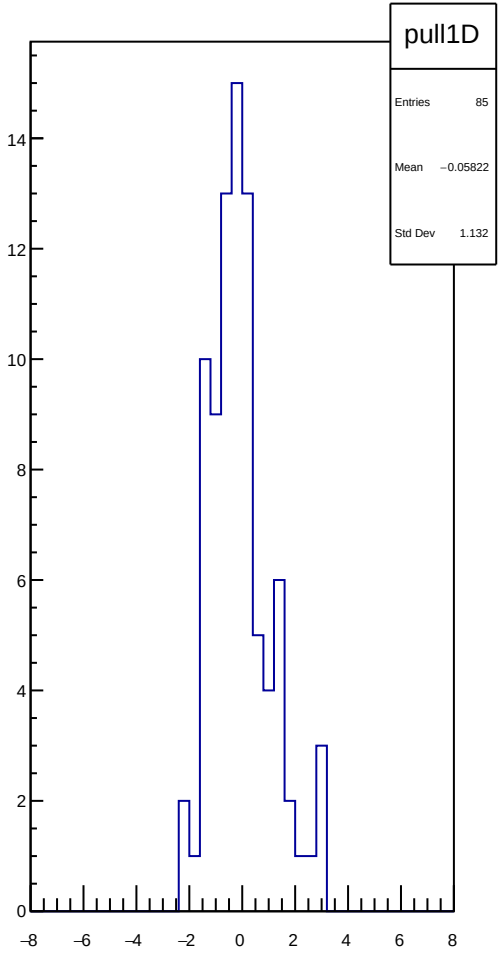

pull1D
Entries 85
Mean −0.02371
Std Dev 0.6497

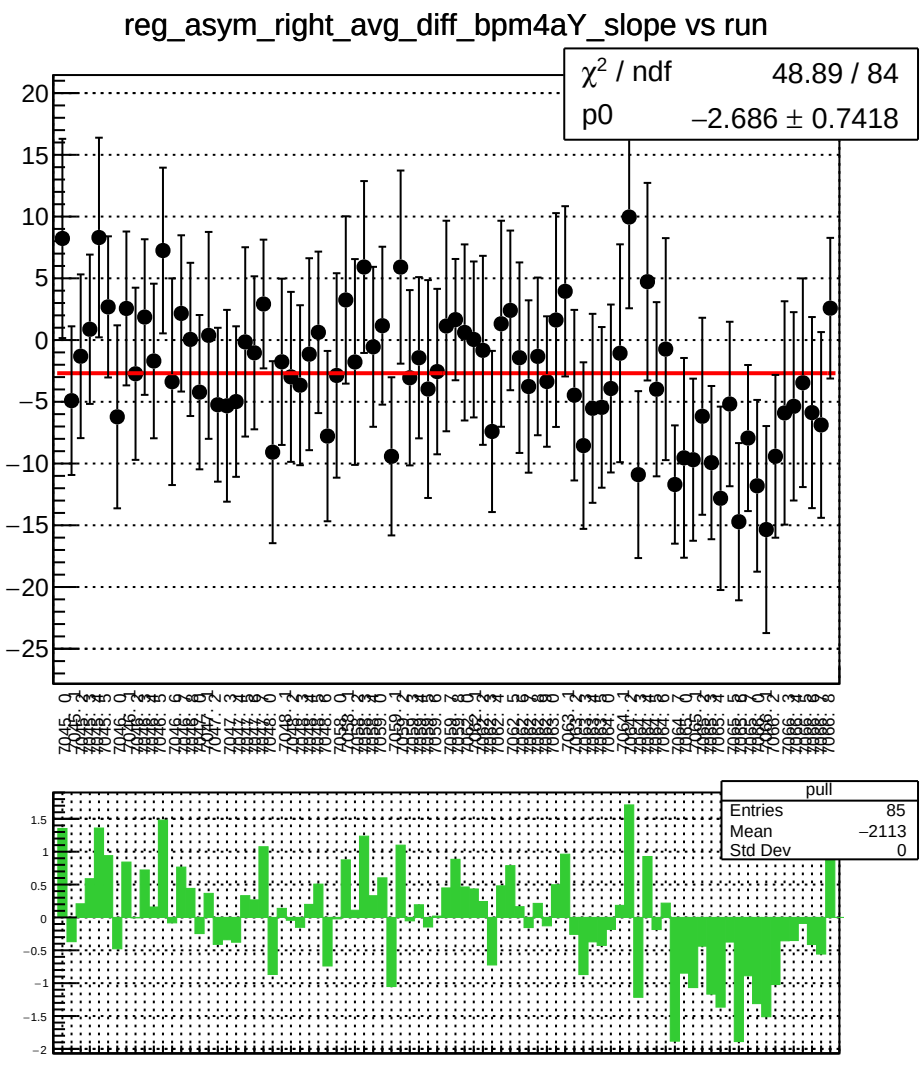

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.83 / 84
p0 11.93 ± 0.821
pull
Entries 85
Mean 431.6
Std Dev 0

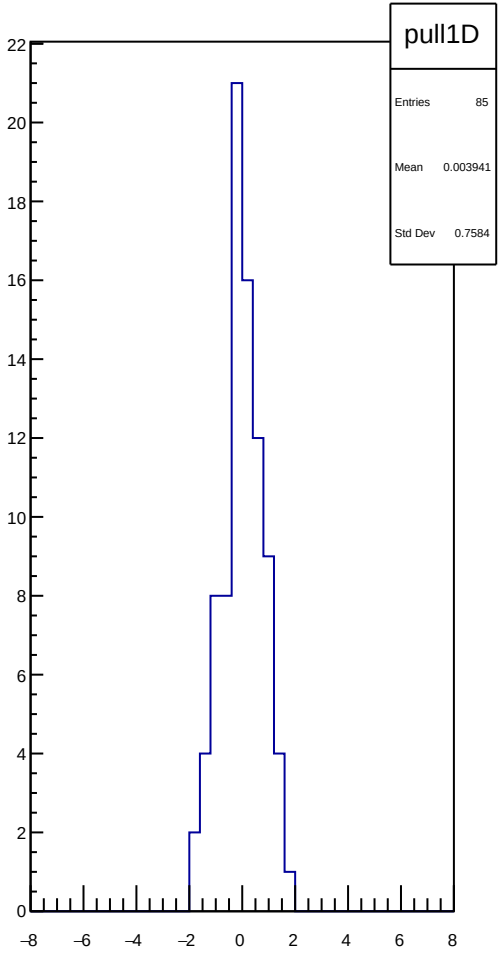

pull1D
Entries 85
Mean 0.005473
Std Dev 0.6308

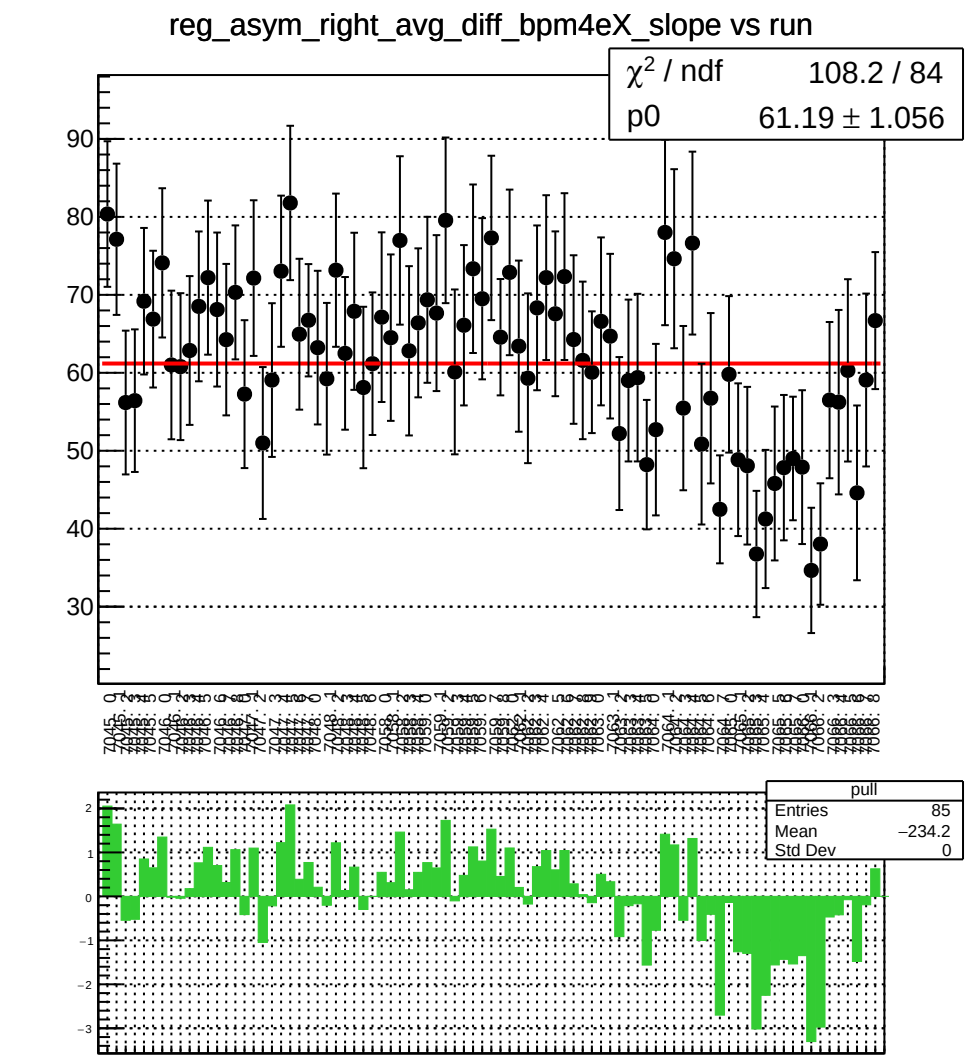

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 103.9 / 84
p0 −19.52 ± 0.03826
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 85
Mean 2224
Std Dev 0
pull1D
Entries 85
Mean 0.006694
Std Dev 1.105

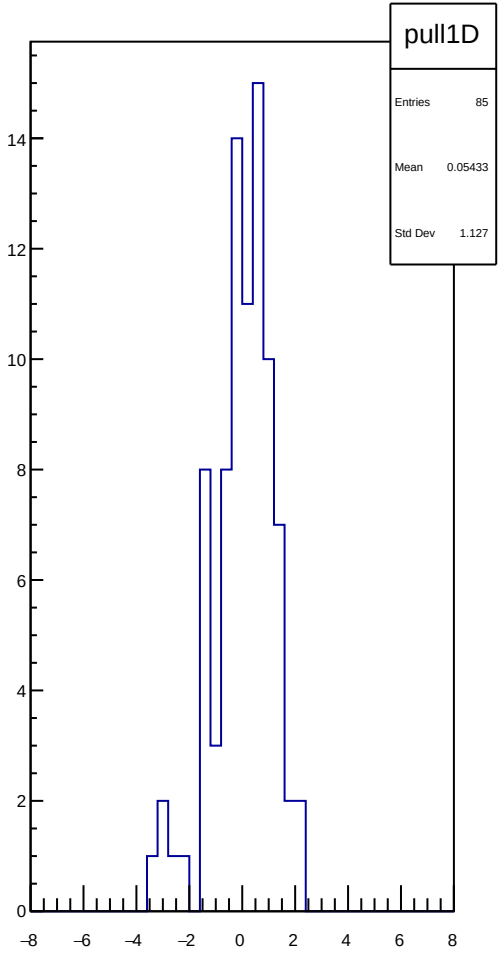

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 109.2 / 84
p0 −32.22 ± 1.109
pull
Entries 85
Mean −221.7
Std Dev 0

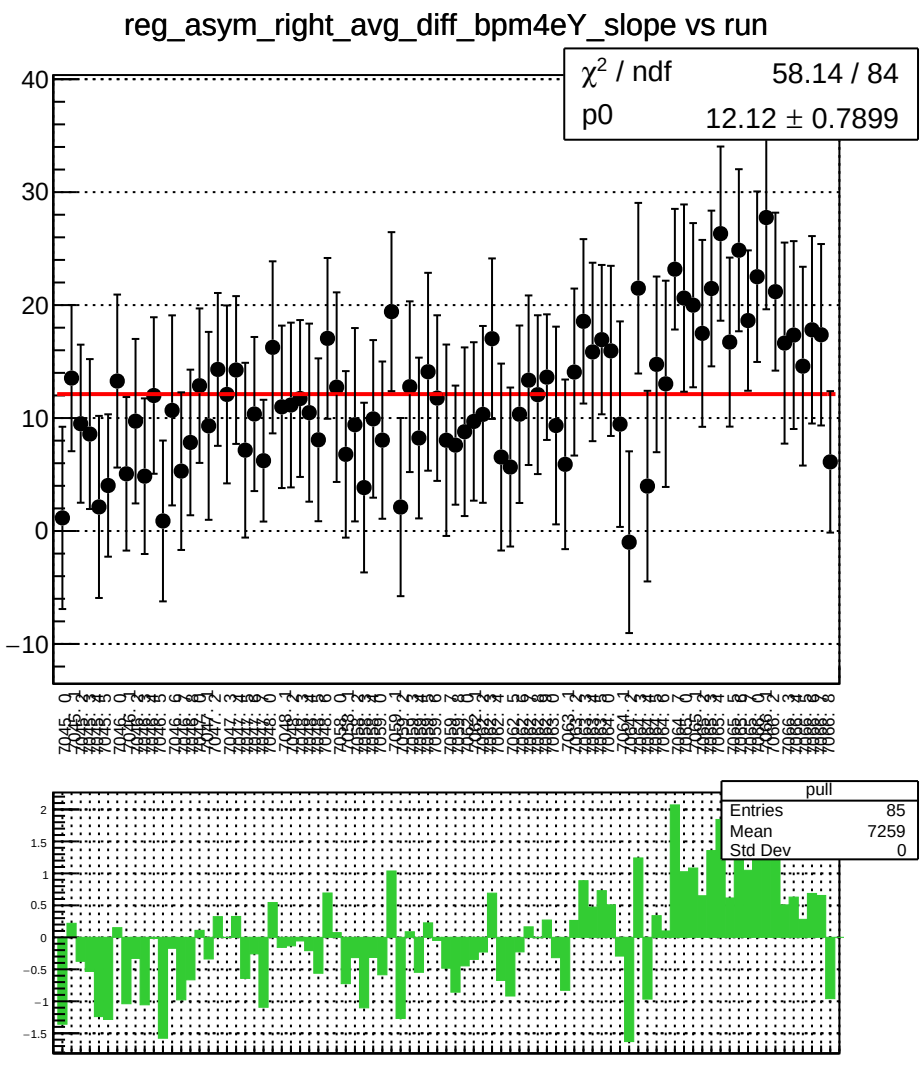

pull1D
Entries 85
Mean −0.05822
Std Dev 1.132

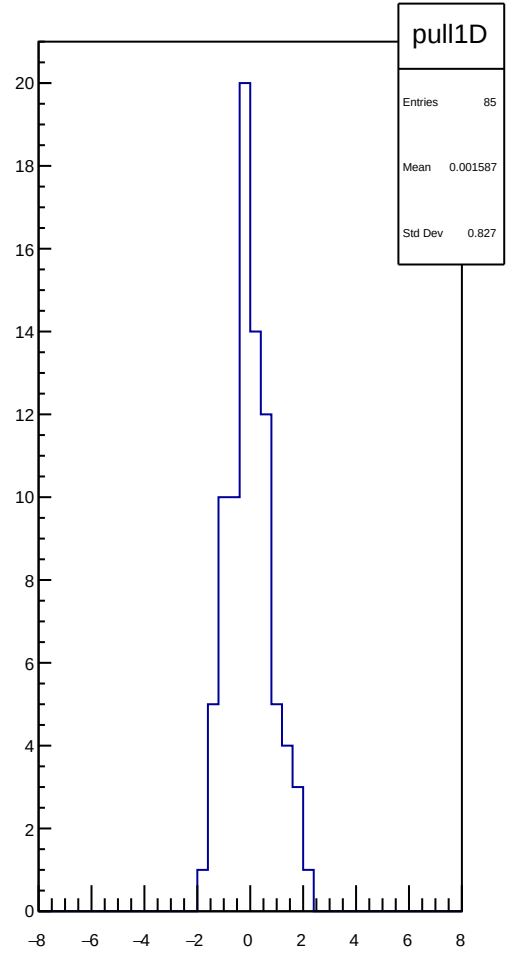

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.89 / 84
p0 −2.686 ± 0.7418
pull
Entries 85
Mean −2113
Std Dev 0

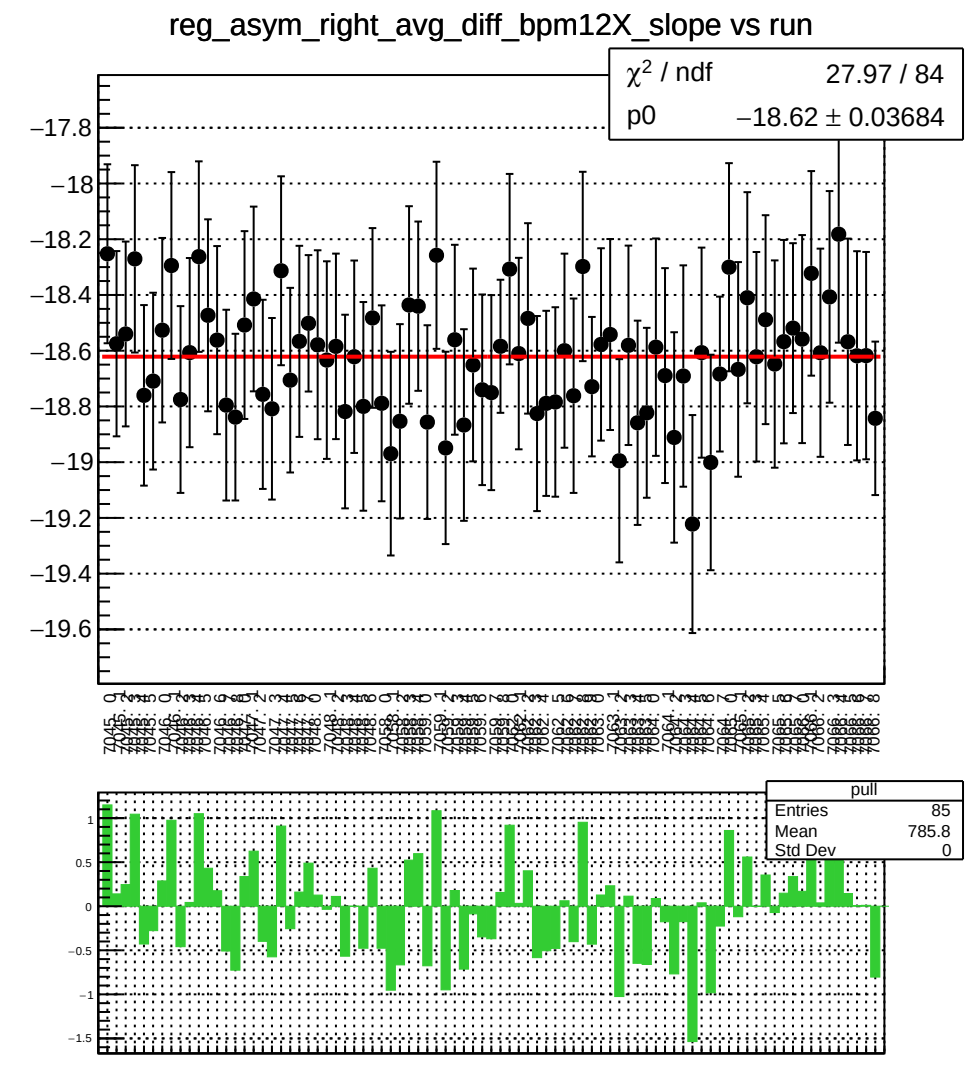

pull1D
Entries 85
Mean 0.003941
Std Dev 0.7584

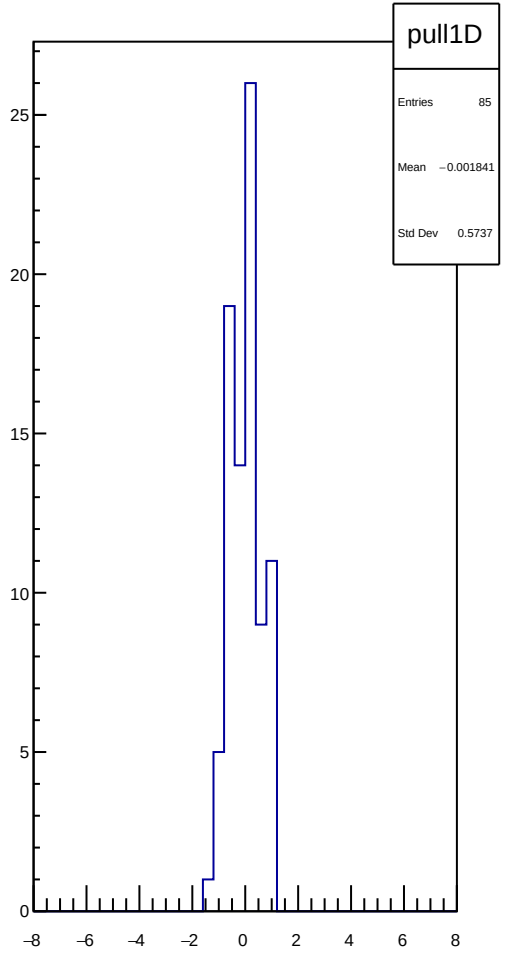

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 108.2 / 84
p0 61.19 ± 1.056
pull
Entries 85
Mean −234.2
Std Dev 0

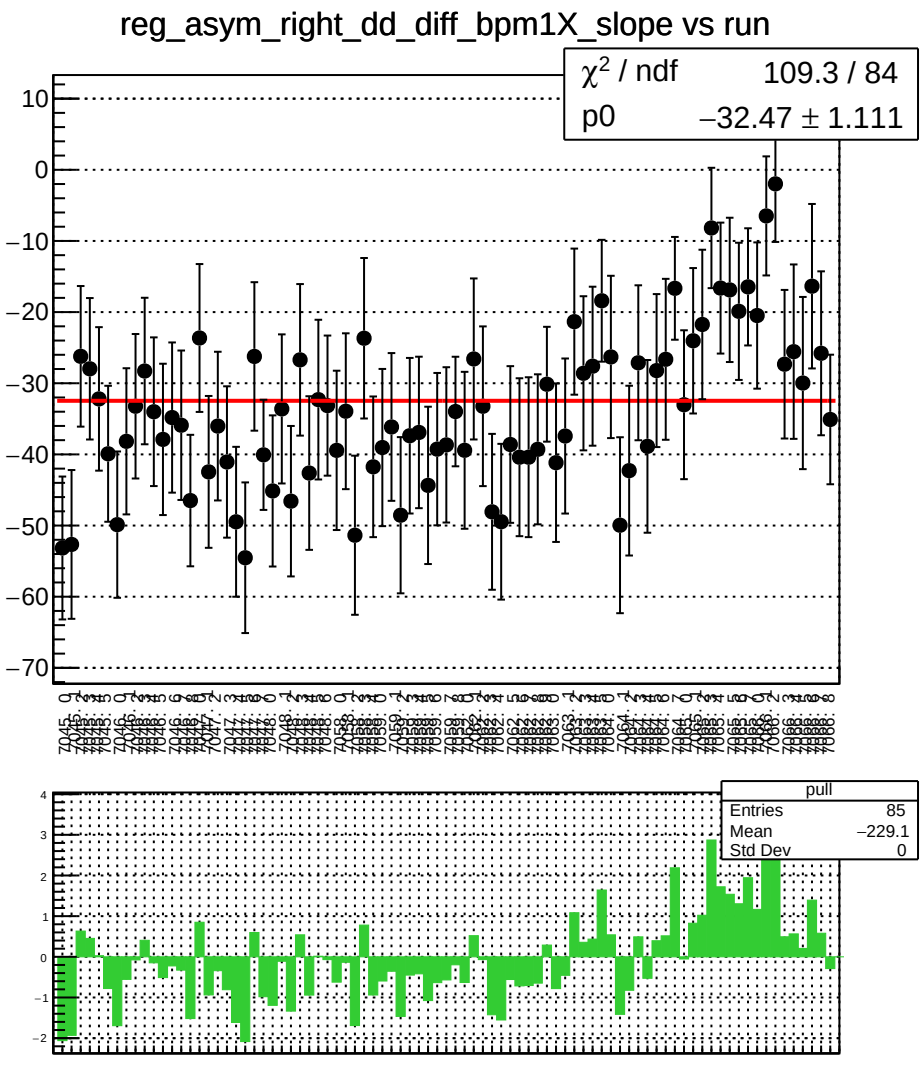

pull1D
Entries 85
Mean 0.05433
Std Dev 1.127

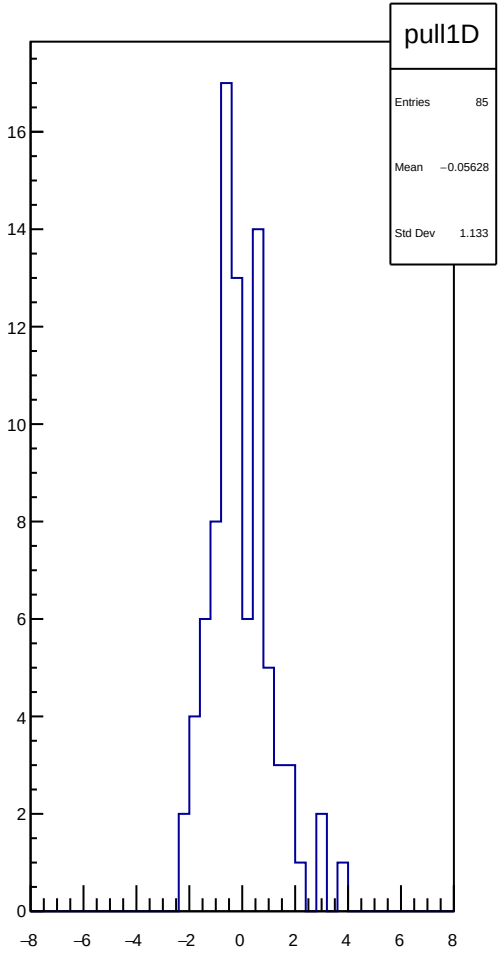

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.14 / 84
p0 12.12 ± 0.7899
pull
Entries 85
Mean 7259
Std Dev 0

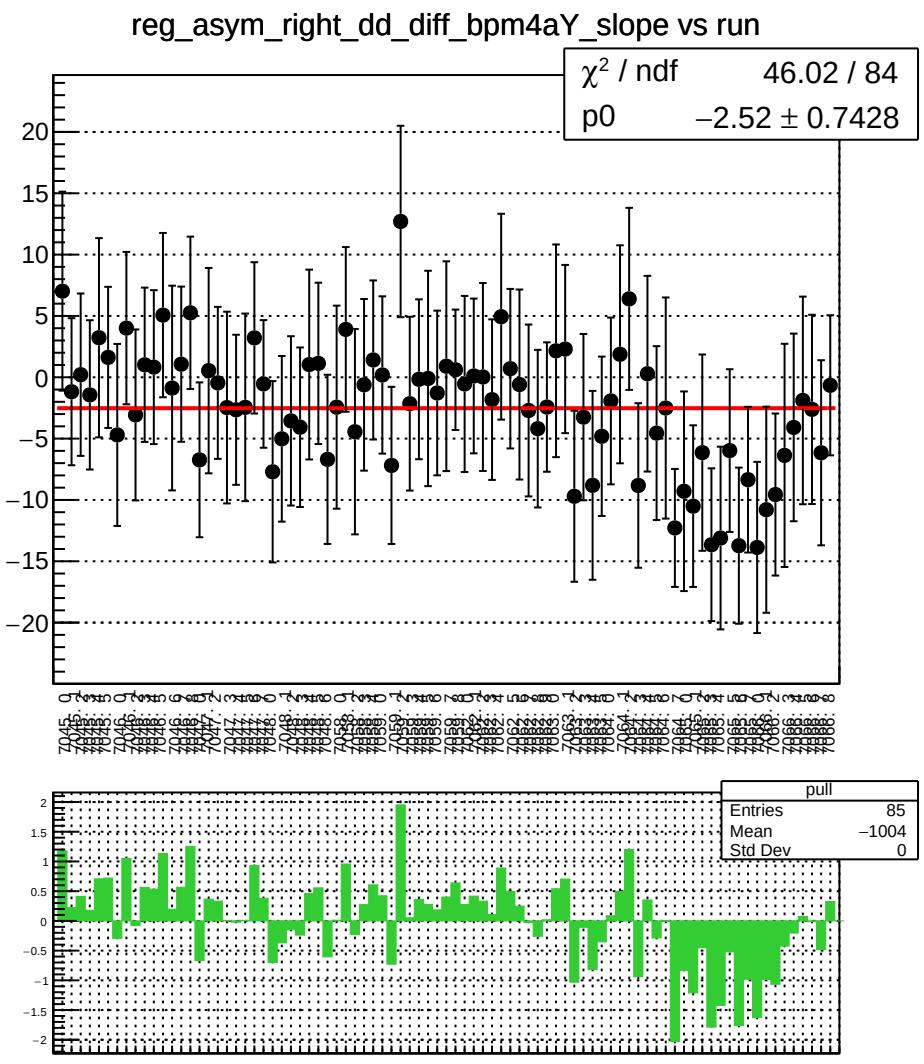

pull1D
Entries 85
Mean 0.001587
Std Dev 0.827

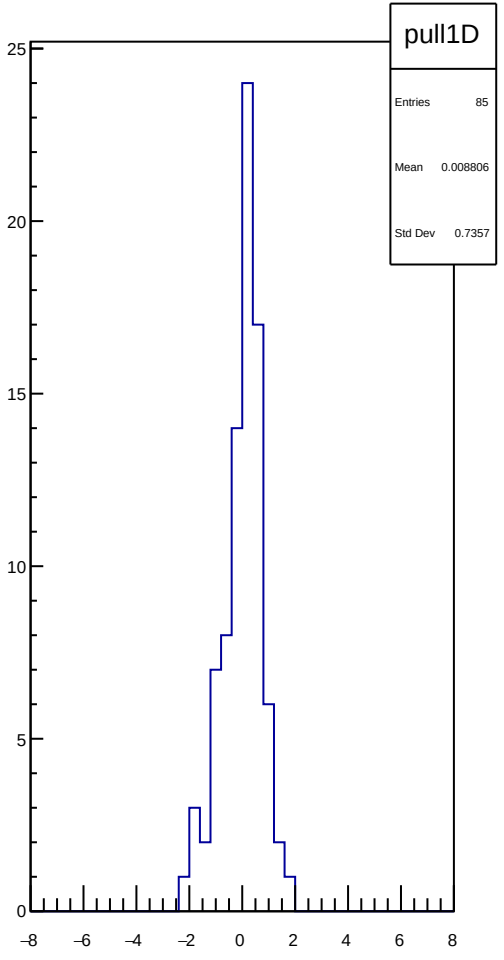

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 27.97 / 84
p0 −18.62 ± 0.03684
pull
Entries 85
Mean 785.8
Std Dev 0

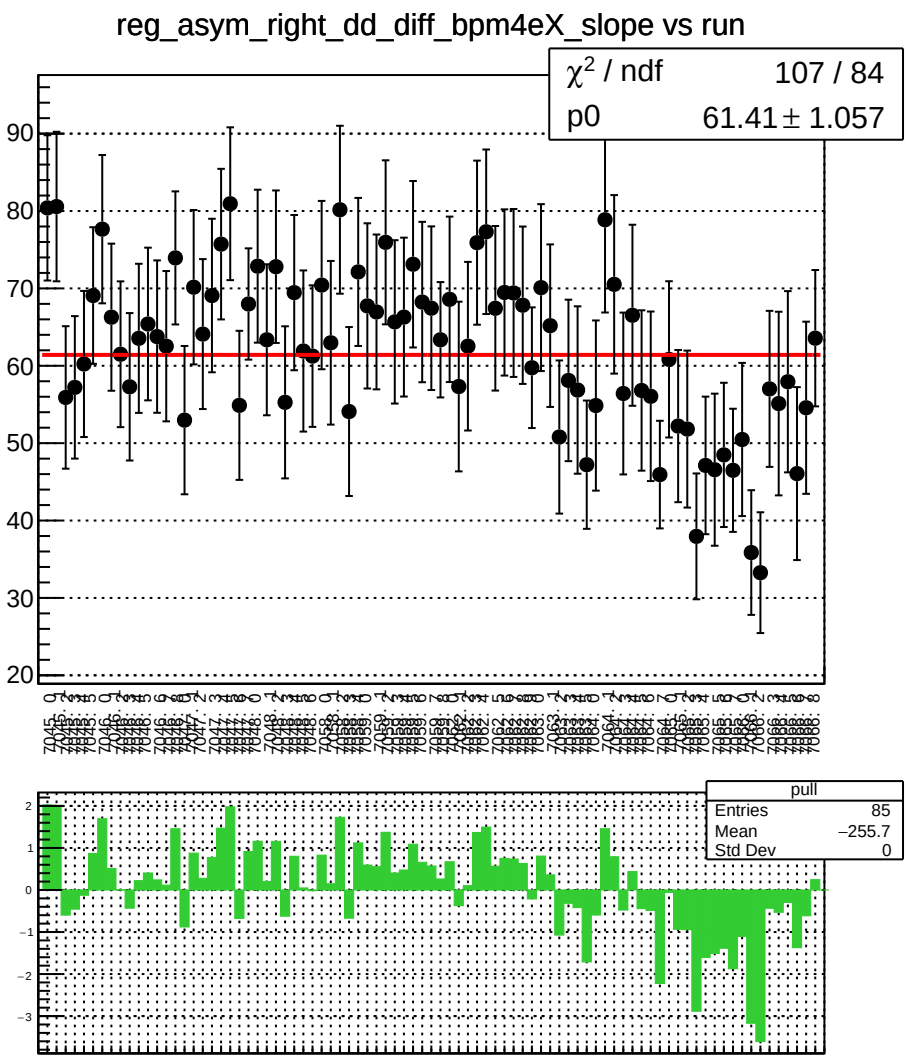

pull1D
Entries 85
Mean −0.001841
Std Dev 0.5737

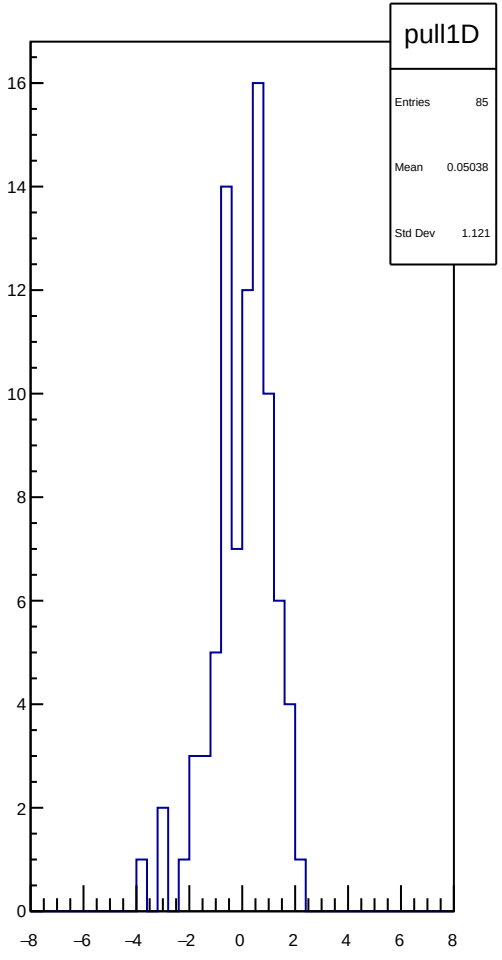

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 109.3 / 84
p0 −32.47 ± 1.111
pull
Entries 85
Mean −229.1
Std Dev 0

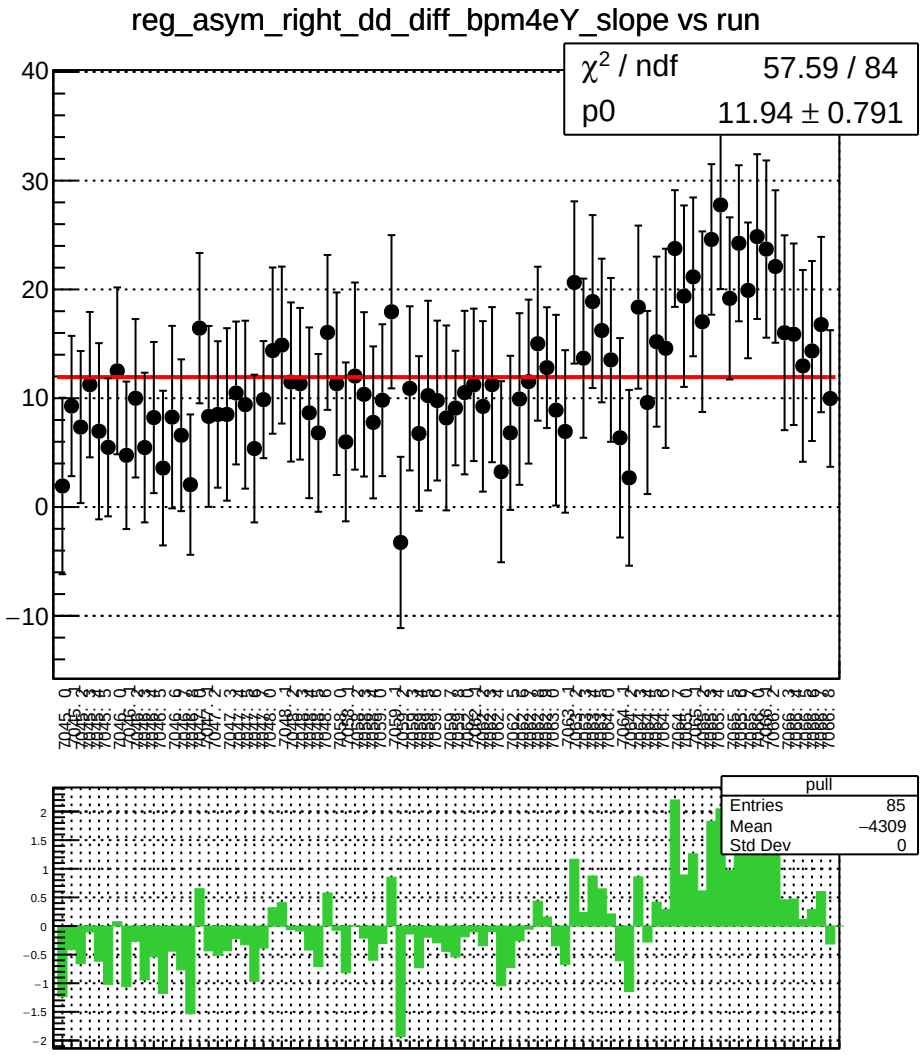

pull1D
Entries 85
Mean −0.05628
Std Dev 1.133

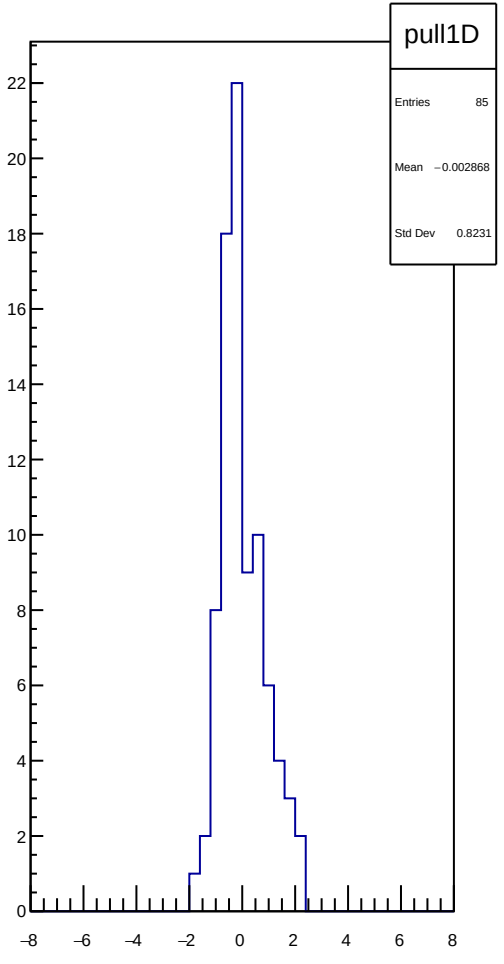

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.02 / 84
p0 −2.52 ± 0.7428
pull
Entries 85
Mean −1004
Std Dev 0

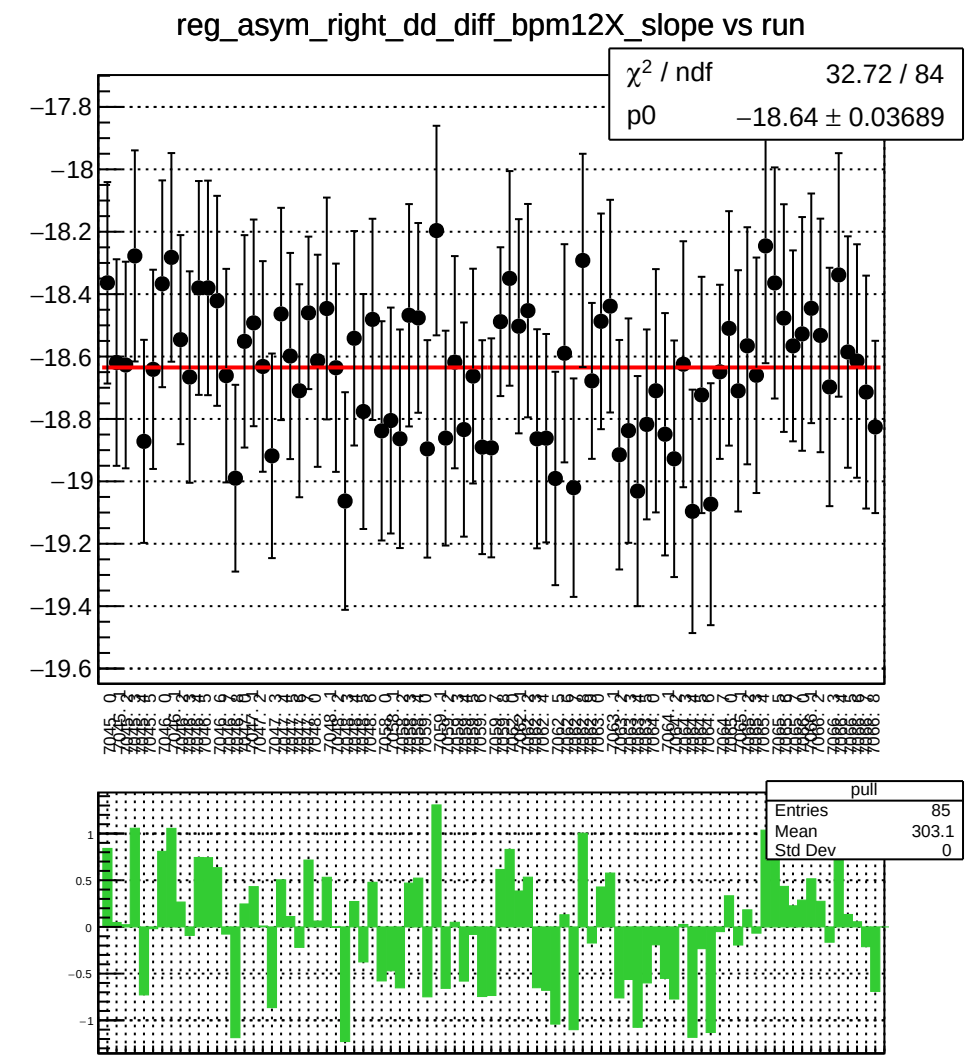

pull1D
Entries 85
Mean 0.008806
Std Dev 0.7357

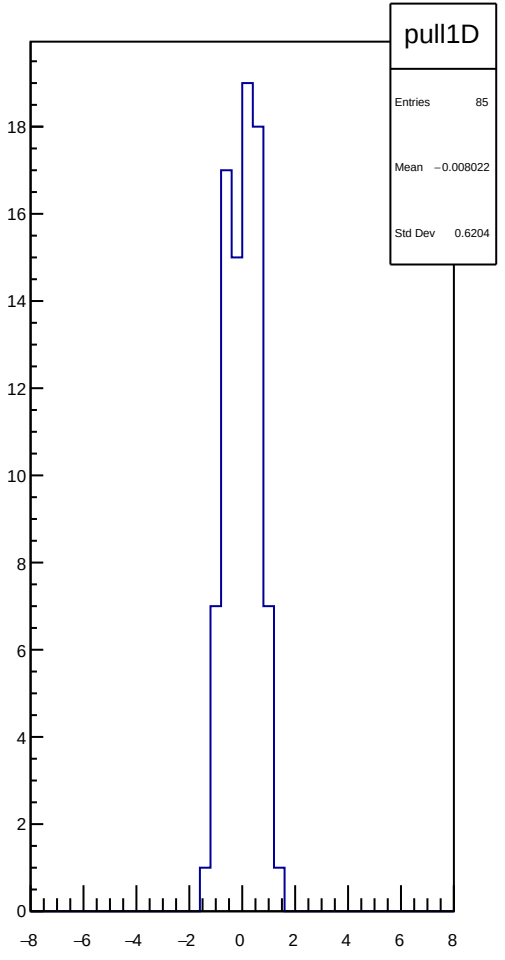

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 107 / 84
p0 61.41 ± 1.057
pull
Entries 85
Mean −255.7
Std Dev 0

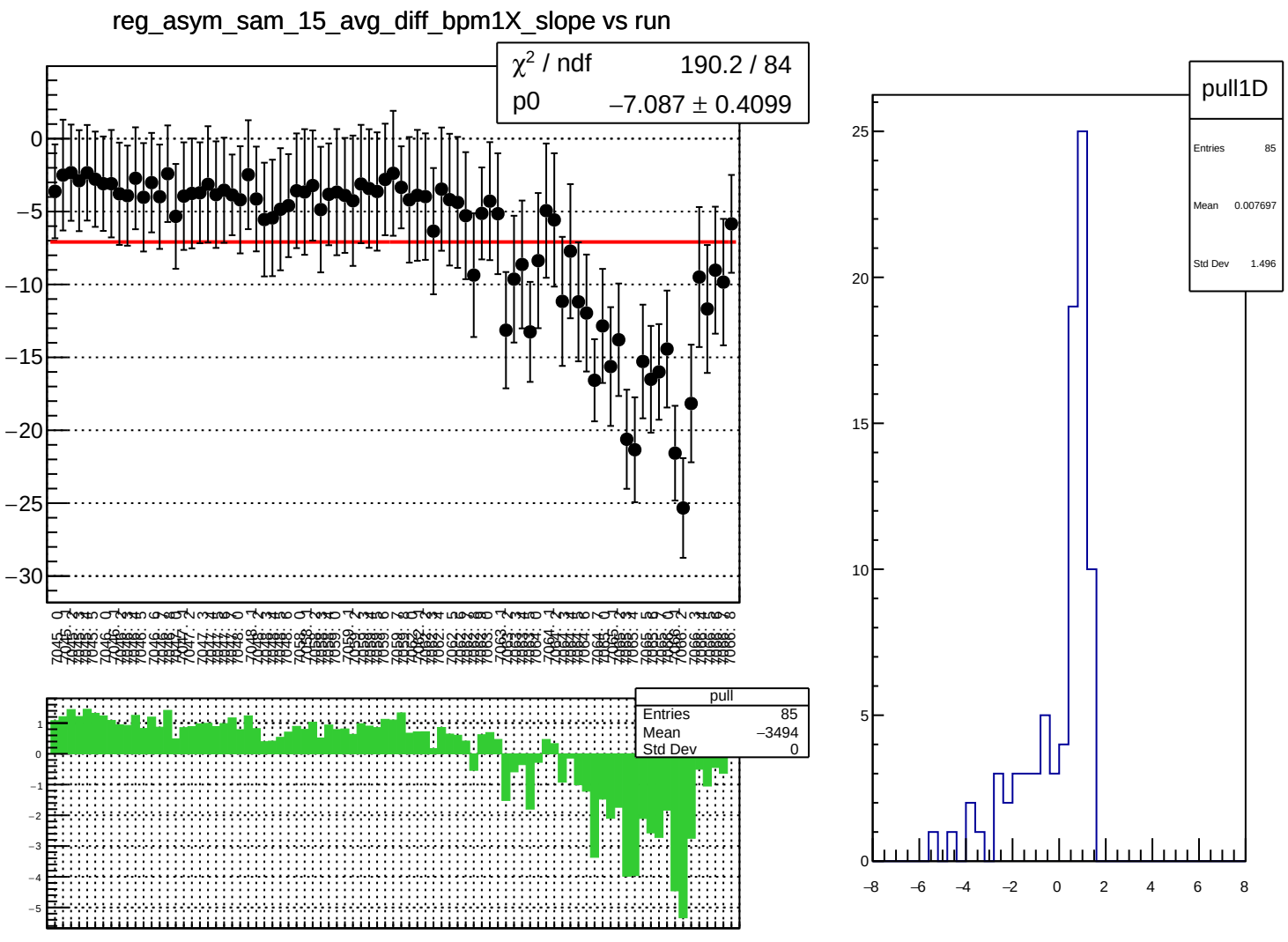

pull1D
Entries 85
Mean 0.05038
Std Dev 1.121

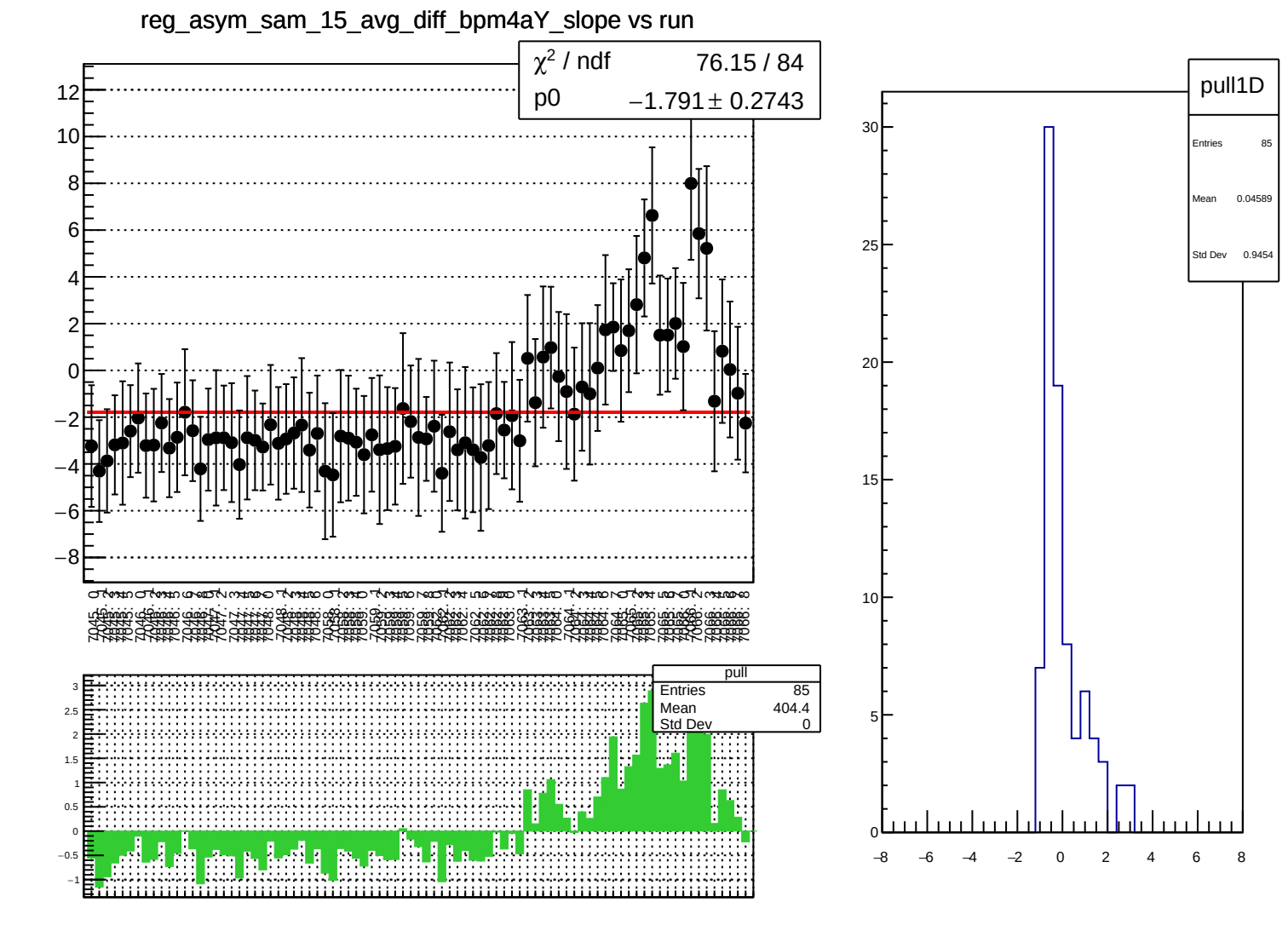

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.59 / 84
p0 11.94 ± 0.791
pull
Entries 85
Mean −4309
Std Dev 0

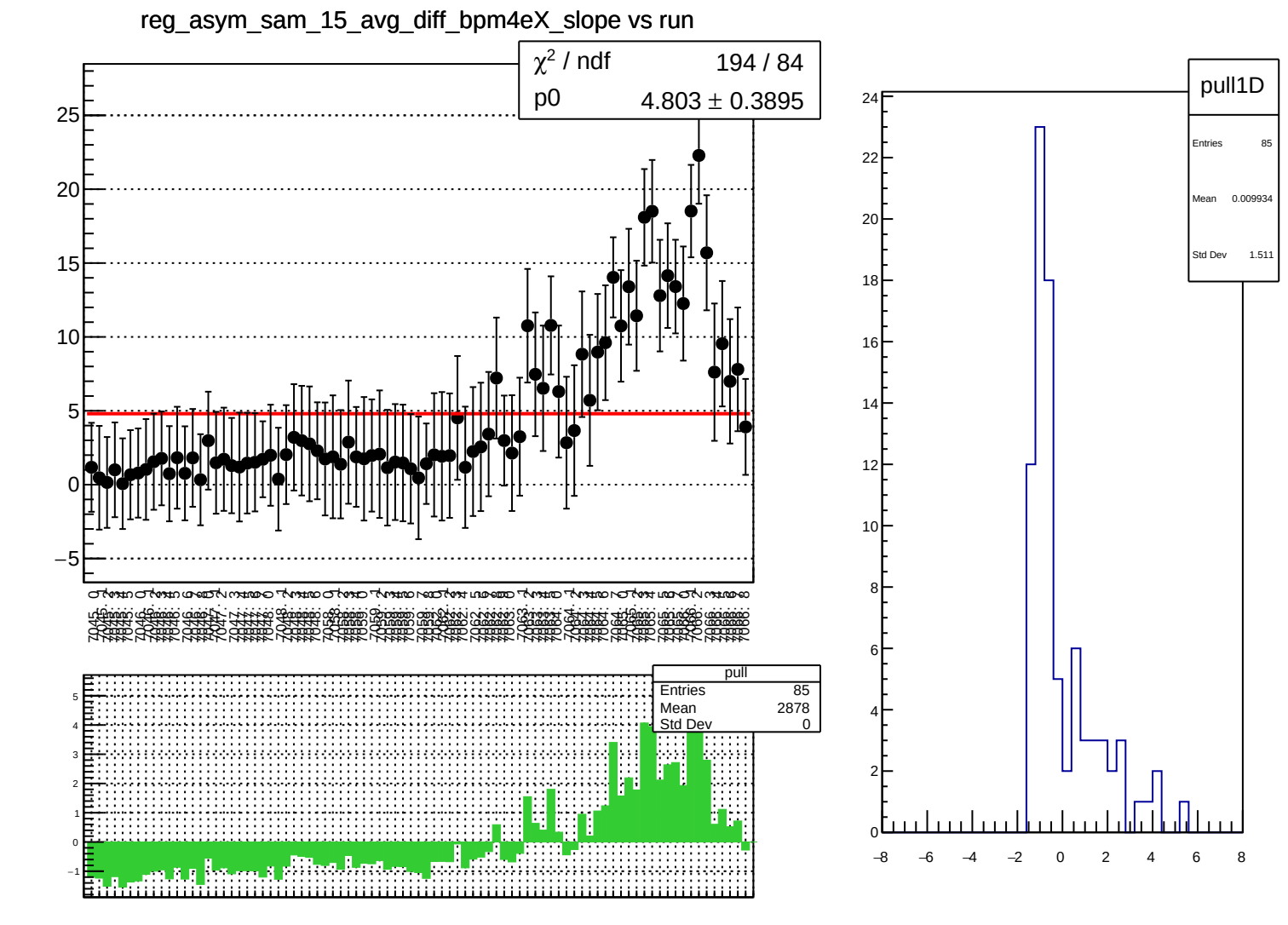

pull1D
Entries 85
Mean −0.002868
Std Dev 0.8231

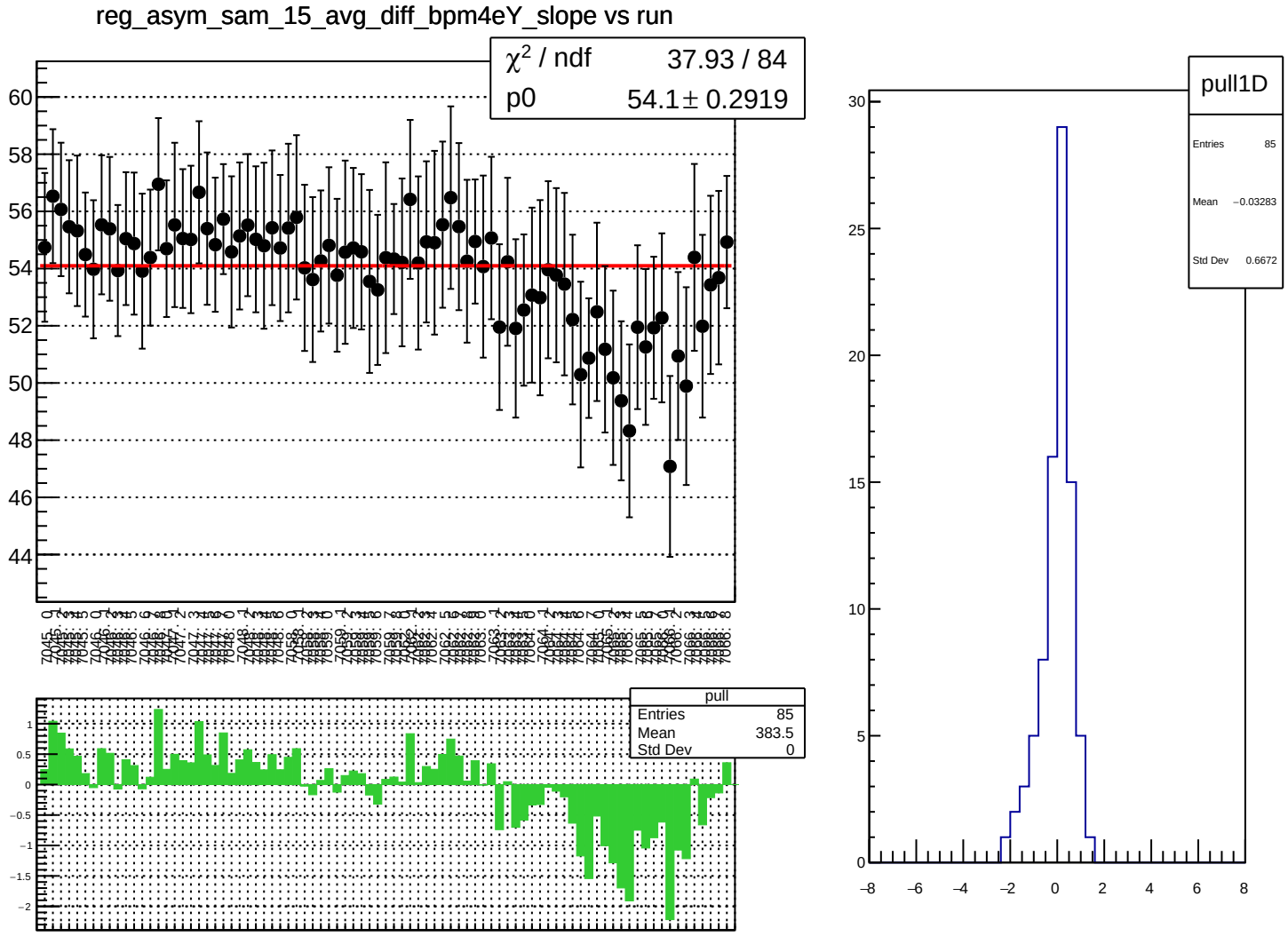

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 32.72 / 84
p0 −18.64 ± 0.03689
pull
Entries 85
Mean 303.1
Std Dev 0

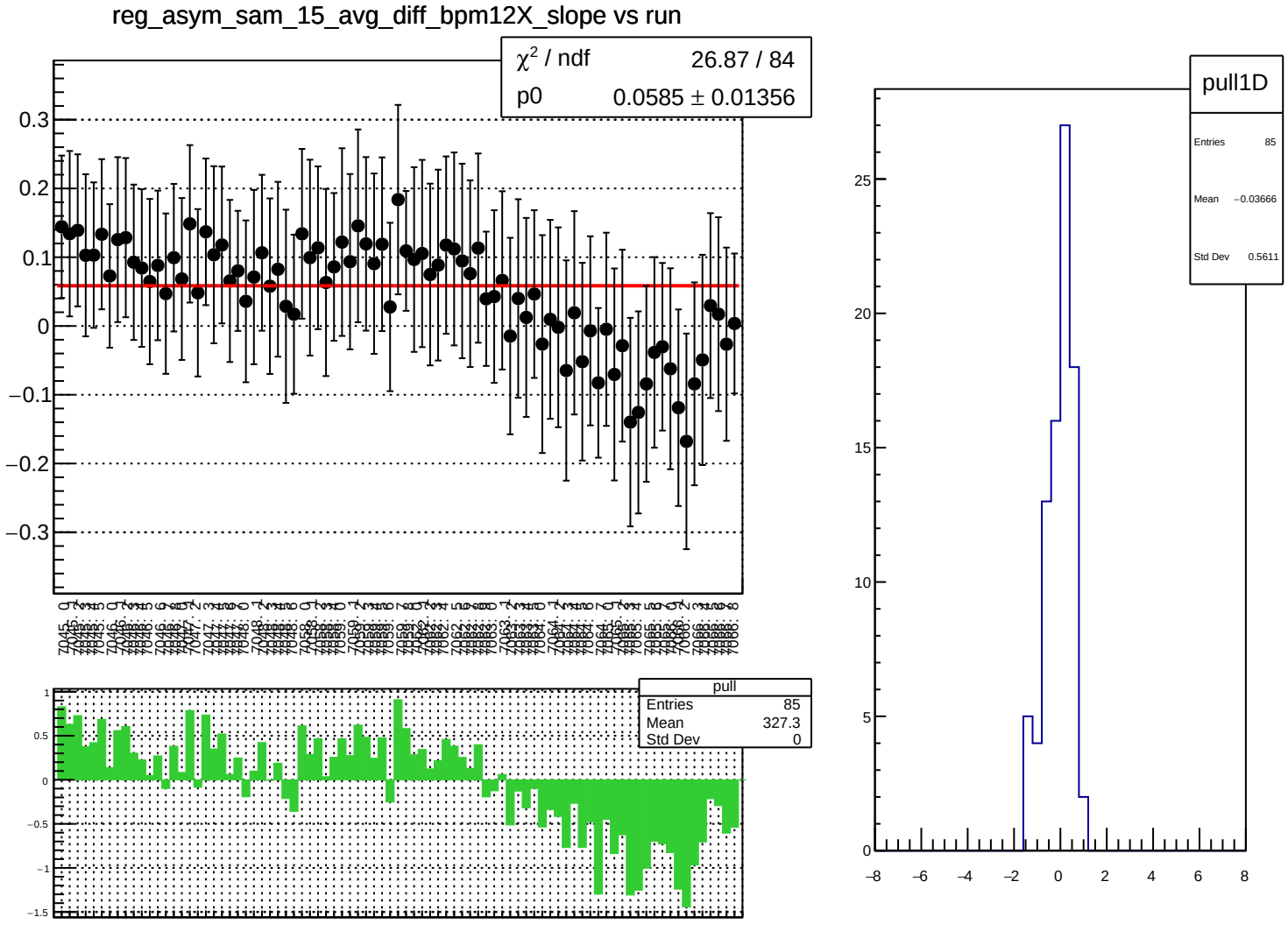

pull1D
Entries 85
Mean −0.008022
Std Dev 0.6204

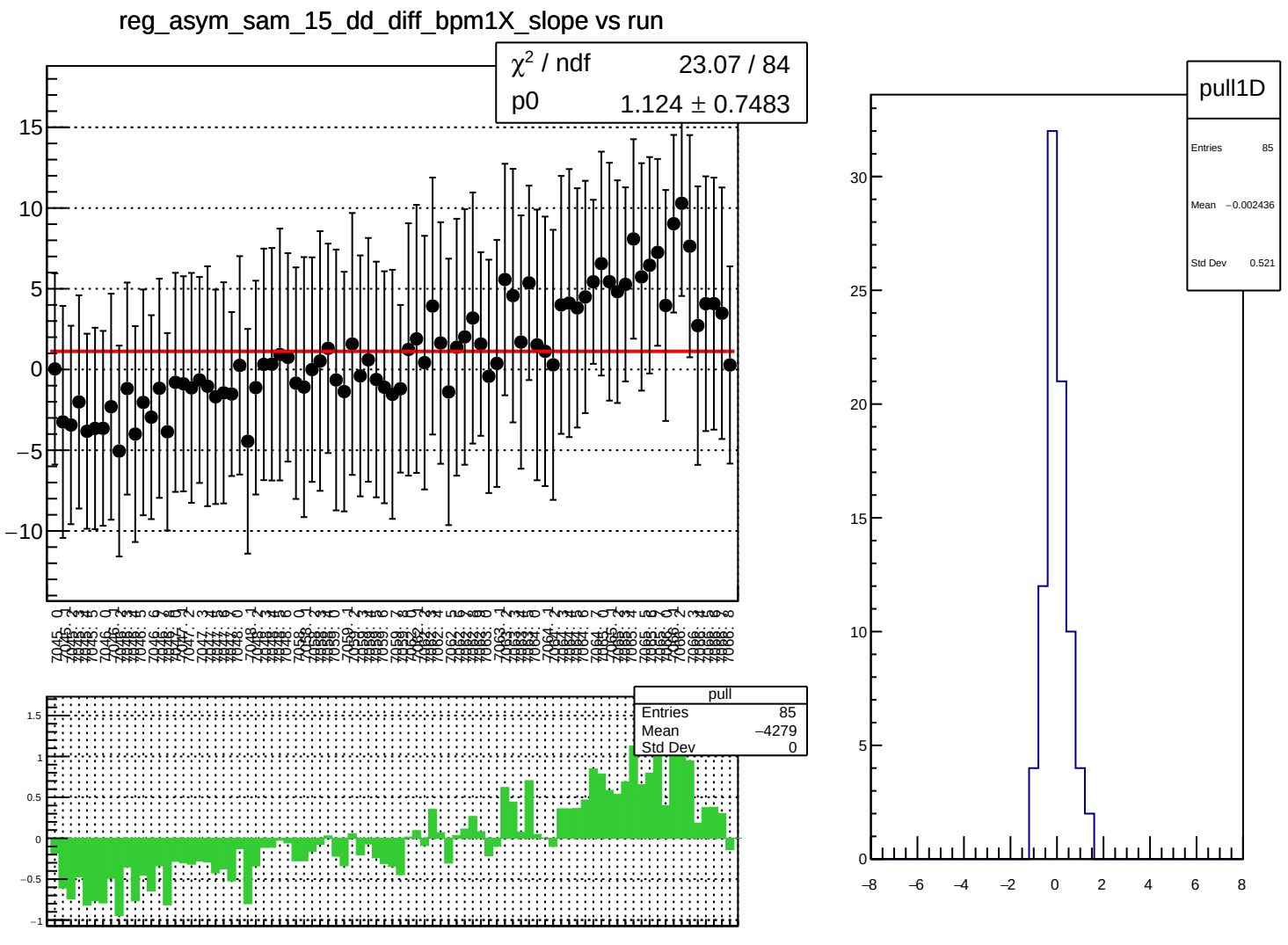

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 190.2 / 84
p0 −7.087 ± 0.4099
pull
Entries 85
Mean −3494
Std Dev 0
pull1D
Entries 85
Mean 0.007697
Std Dev 1.496

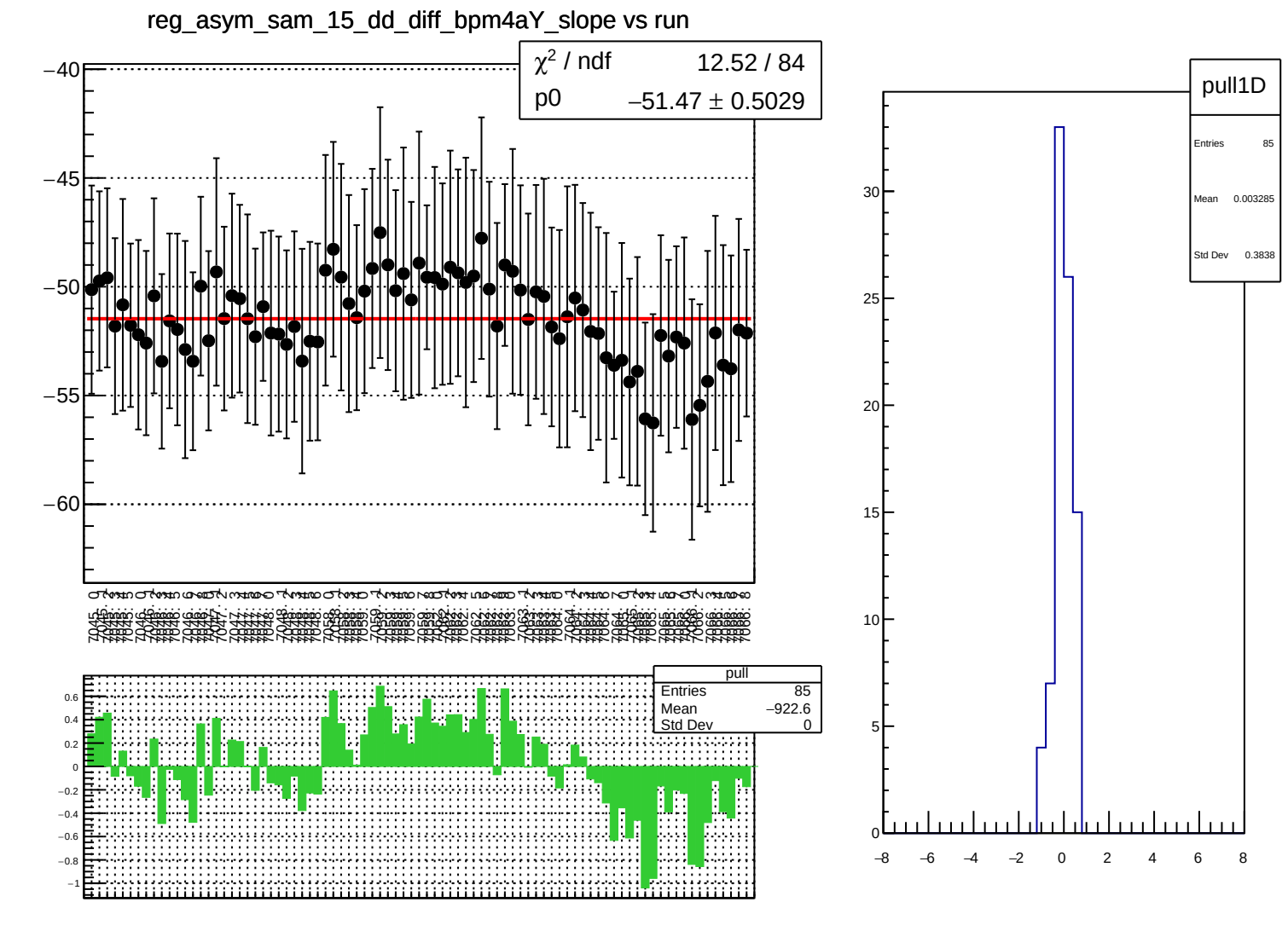

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.15 / 84
p0 −1.791 ± 0.2743
pull
Entries 85
Mean 404.4
Std Dev 0
pull1D
Entries 85
Mean 0.04589
Std Dev 0.9454

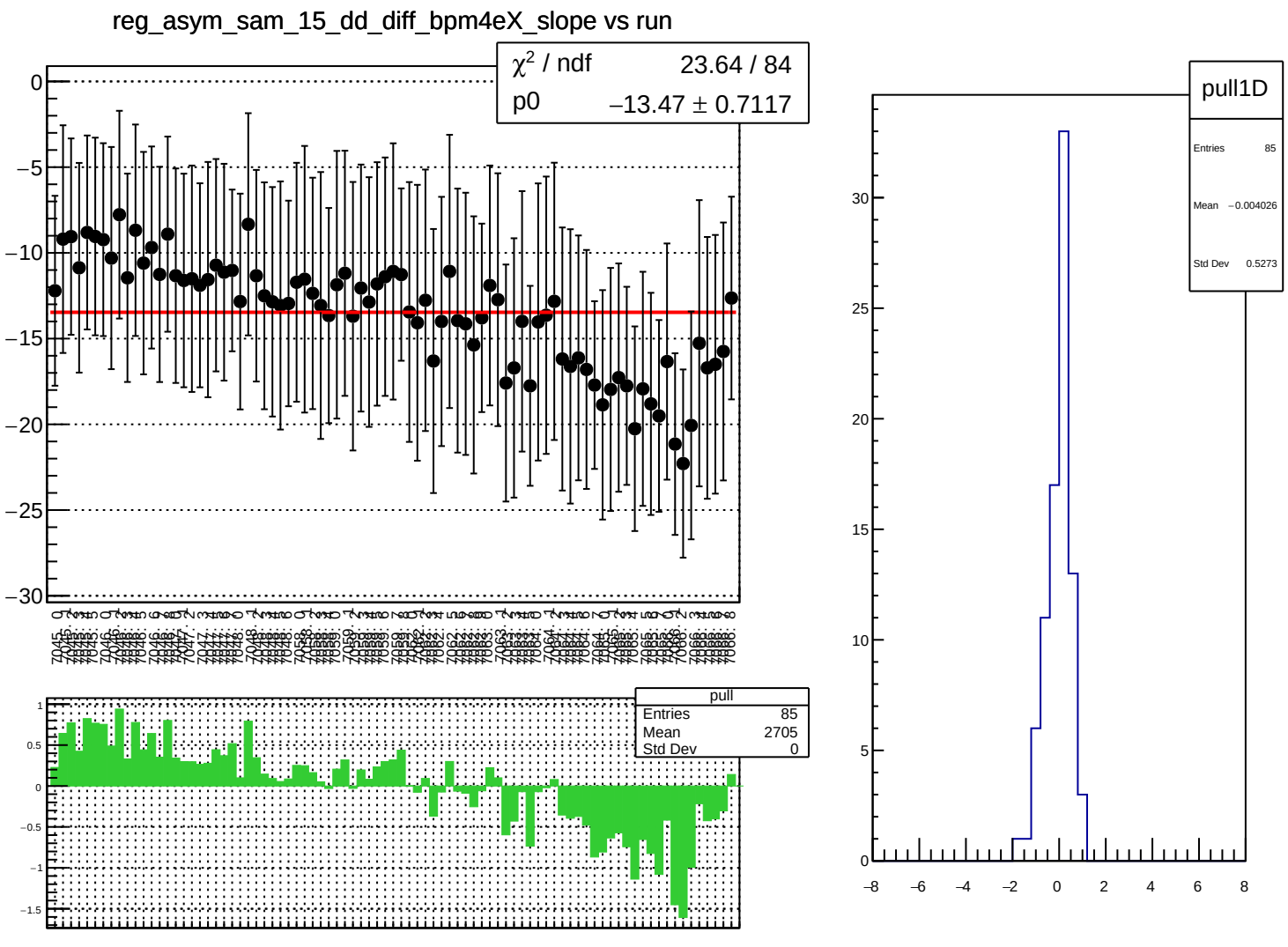

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 194 / 84
p0 4.803 ± 0.3895
pull
Entries 85
Mean 2878
Std Dev 0
pull1D
Entries 85
Mean 0.009934
Std Dev 1.511

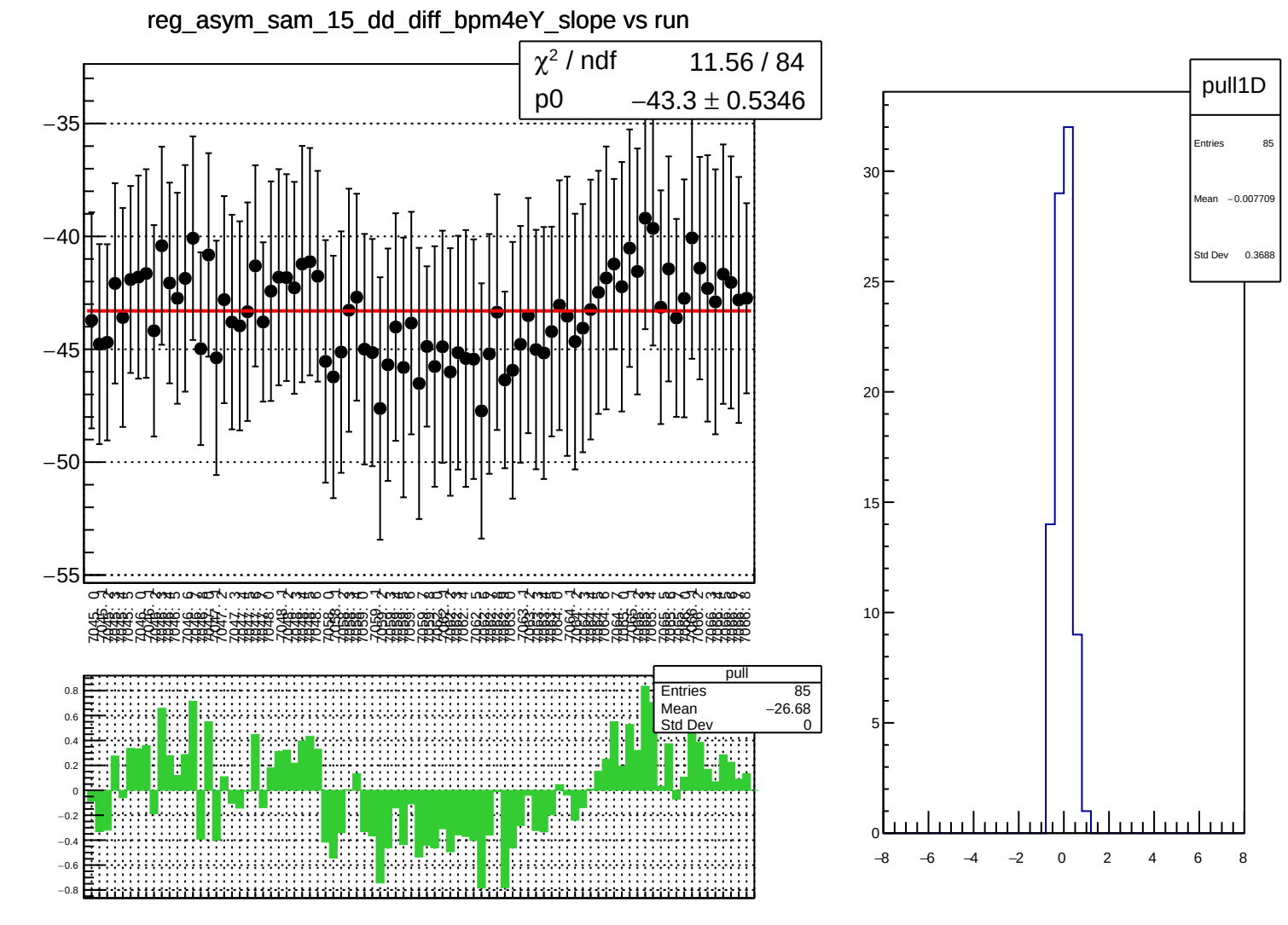

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.93 / 84
p0 54.1 ± 0.2919
pull
Entries 85
Mean 383.5
Std Dev 0
pull1D
Entries 85
Mean −0.03283
Std Dev 0.6672

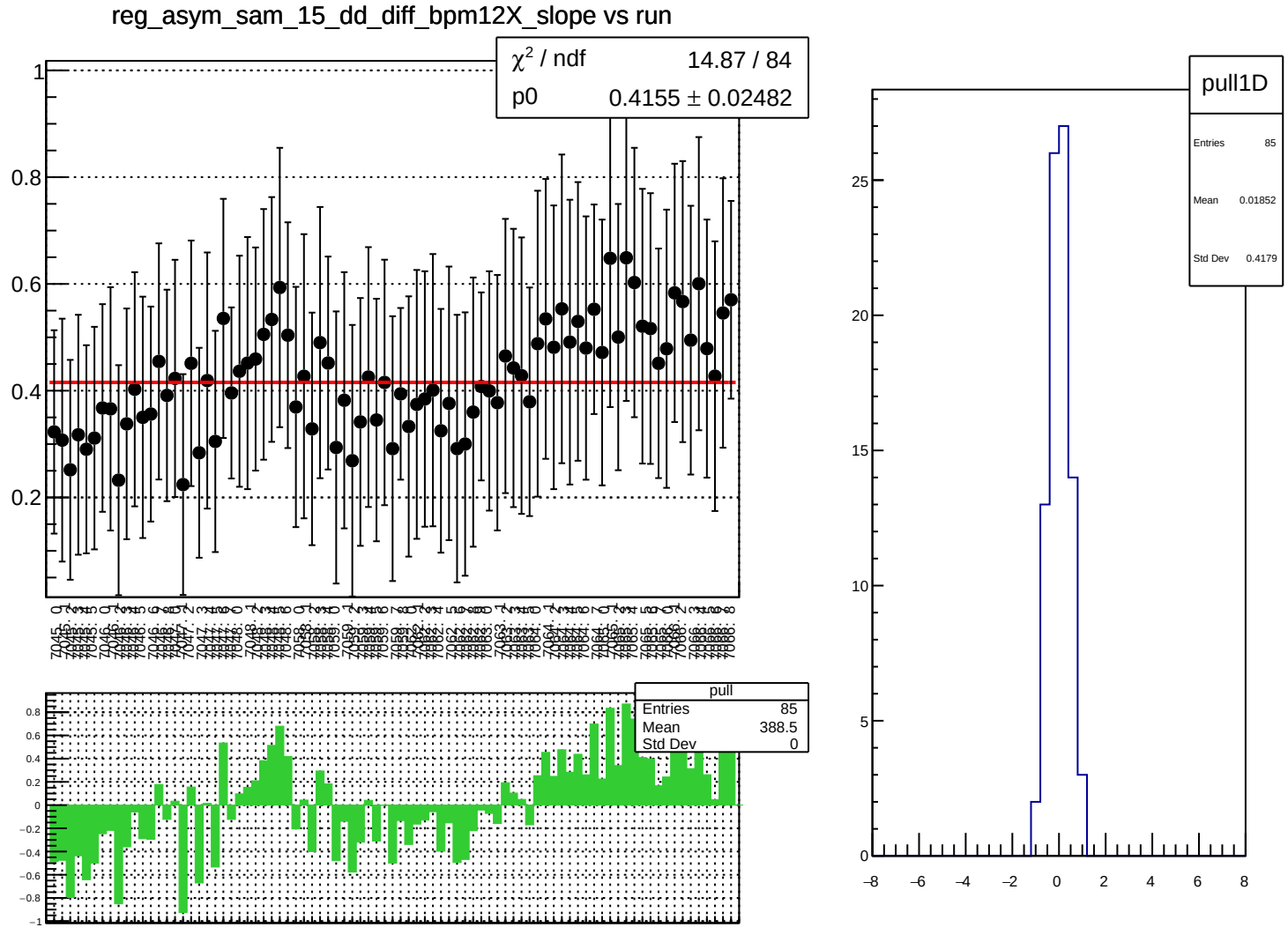

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 26.87 / 84
p0 0.0585 ± 0.01356
pull
Entries 85
Mean 327.3
Std Dev 0
pull1D
Entries 85
Mean −0.03666
Std Dev 0.5611

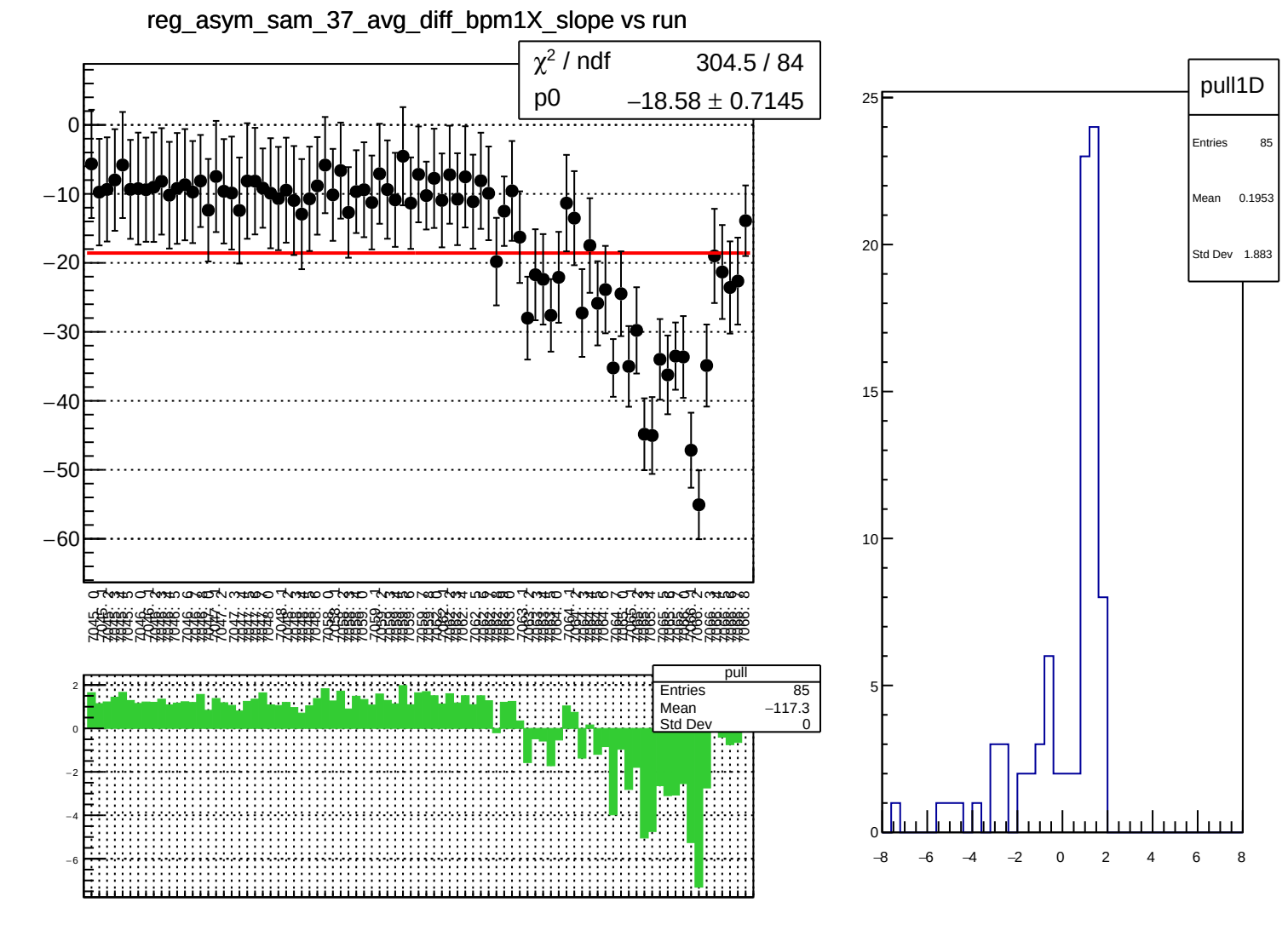

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 23.07 / 84
p0 1.124 ± 0.7483
pull
Entries 85
Mean −4279
Std Dev 0
pull1D
Entries 85
Mean −0.002436
Std Dev 0.521

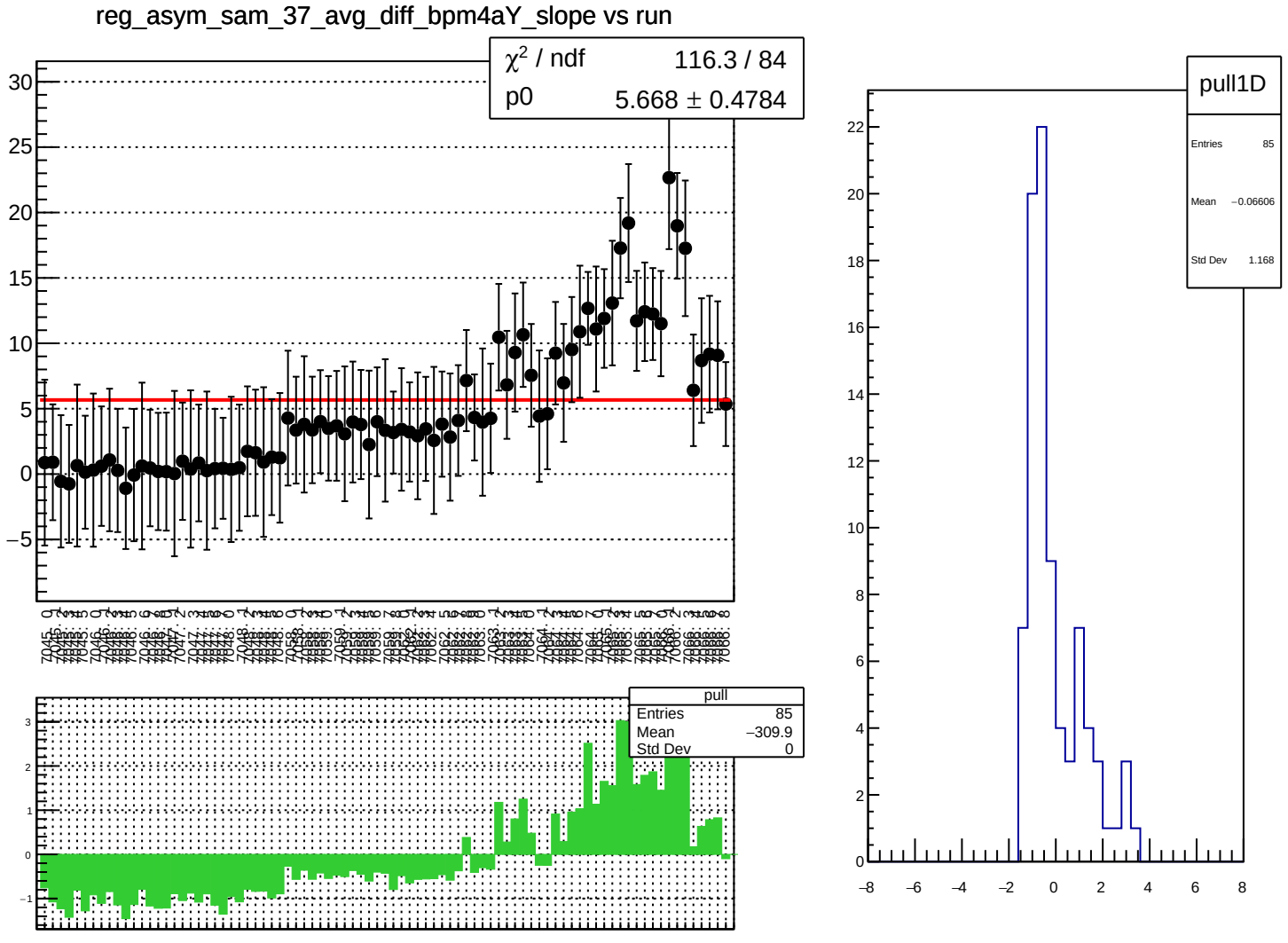

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.52 / 84
p0 −51.47 ± 0.5029
−40
−45
−50
−55
−60
pull
Entries 85
Mean −922.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 85
Mean 0.003285
Std Dev 0.3838
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

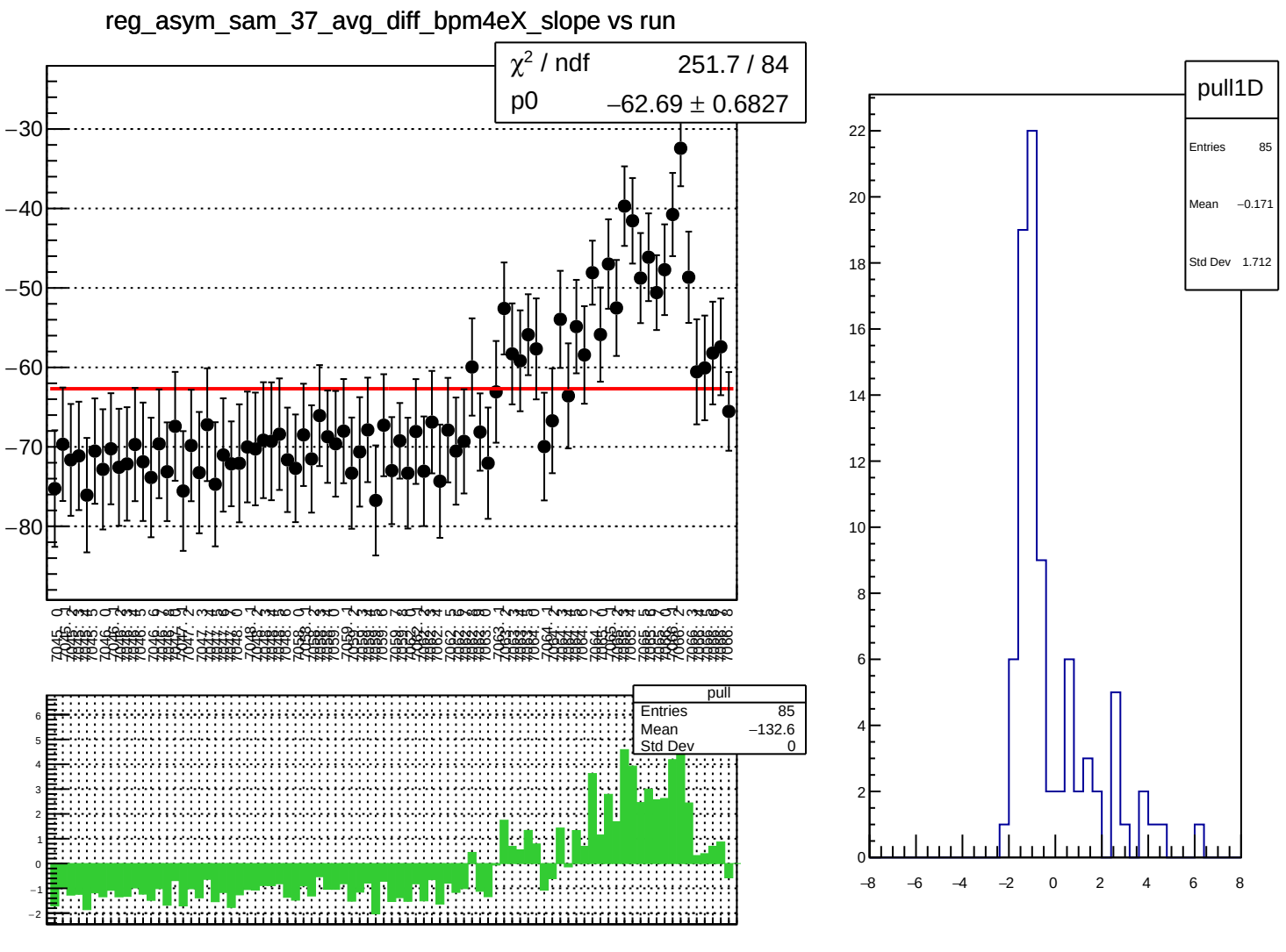

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.64 / 84
p0 −13.47 ± 0.7117
pull
Entries 85
Mean 2705
Std Dev 0
pull1D
Entries 85
Mean −0.004026
Std Dev 0.5273

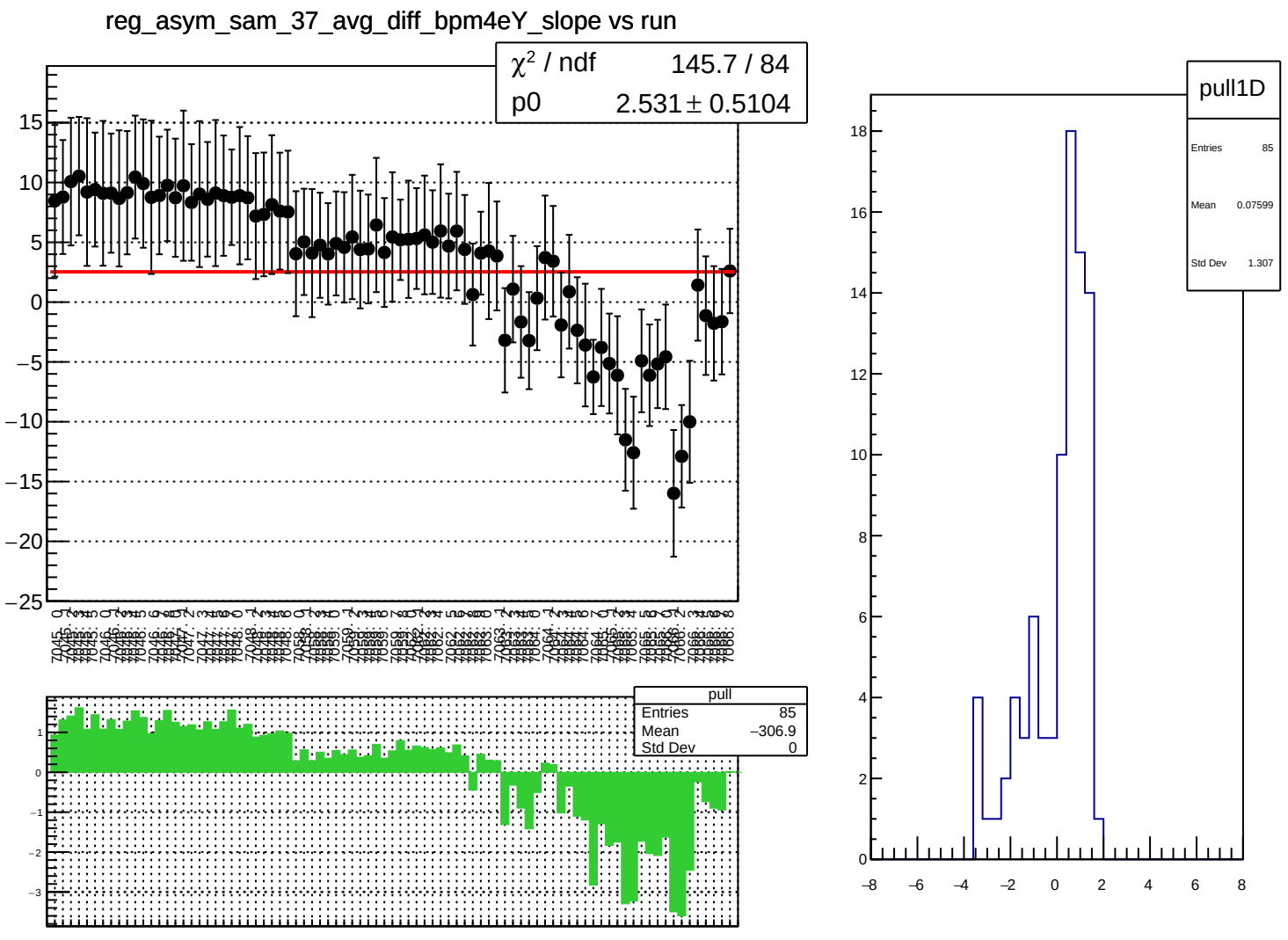

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.56 / 84
p0 −43.3 ± 0.5346
pull
Entries 85
Mean −26.68
Std Dev 0
pull1D
Entries 85
Mean −0.007709
Std Dev 0.3688

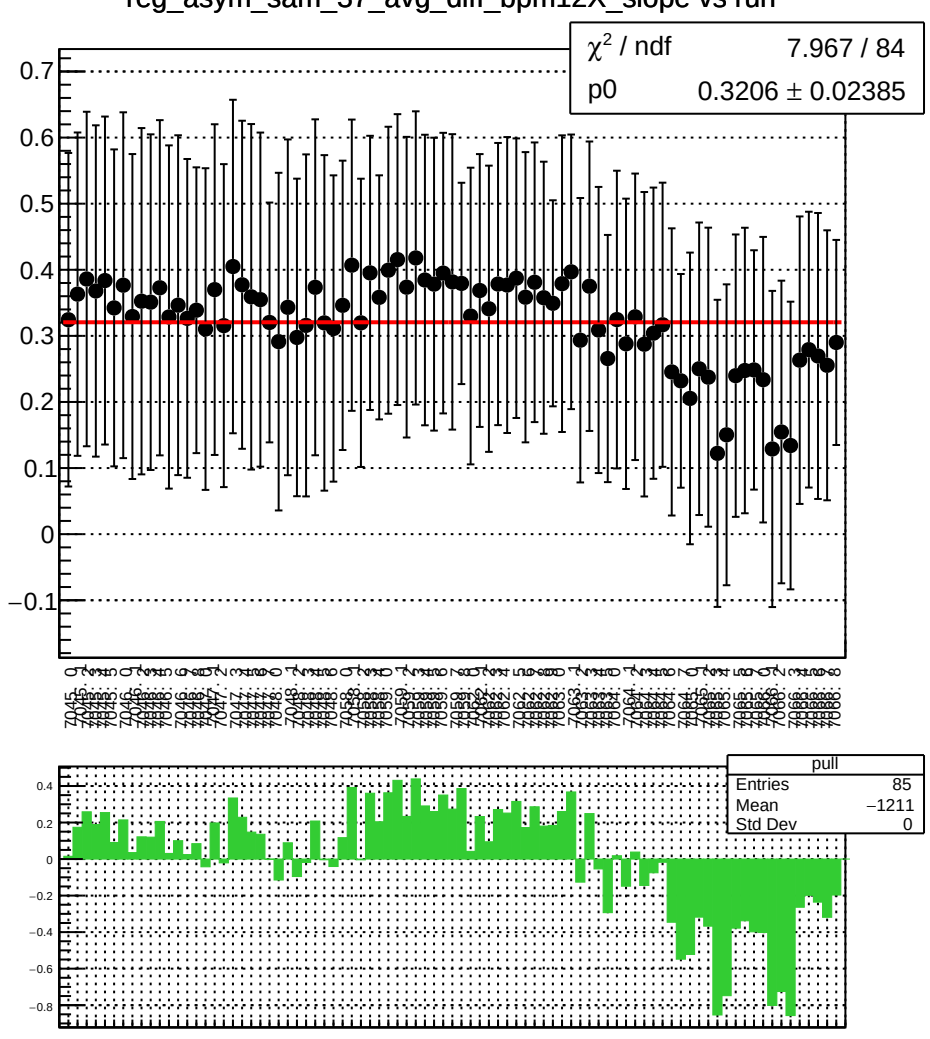

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 14.87 / 84
p0 0.4155 ± 0.02482
pull
Entries 85
Mean 388.5
Std Dev 0
pull1D
Entries 85
Mean 0.01852
Std Dev 0.4179

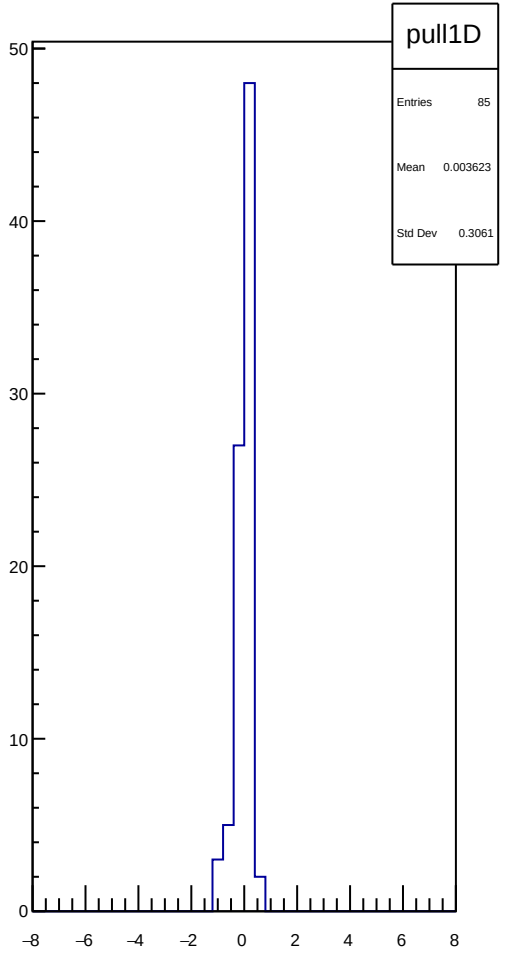

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 304.5 / 84
p0 −18.58 ± 0.7145
pull
Entries 85
Mean −117.3
Std Dev 0
pull1D
Entries 85
Mean 0.1953
Std Dev 1.883

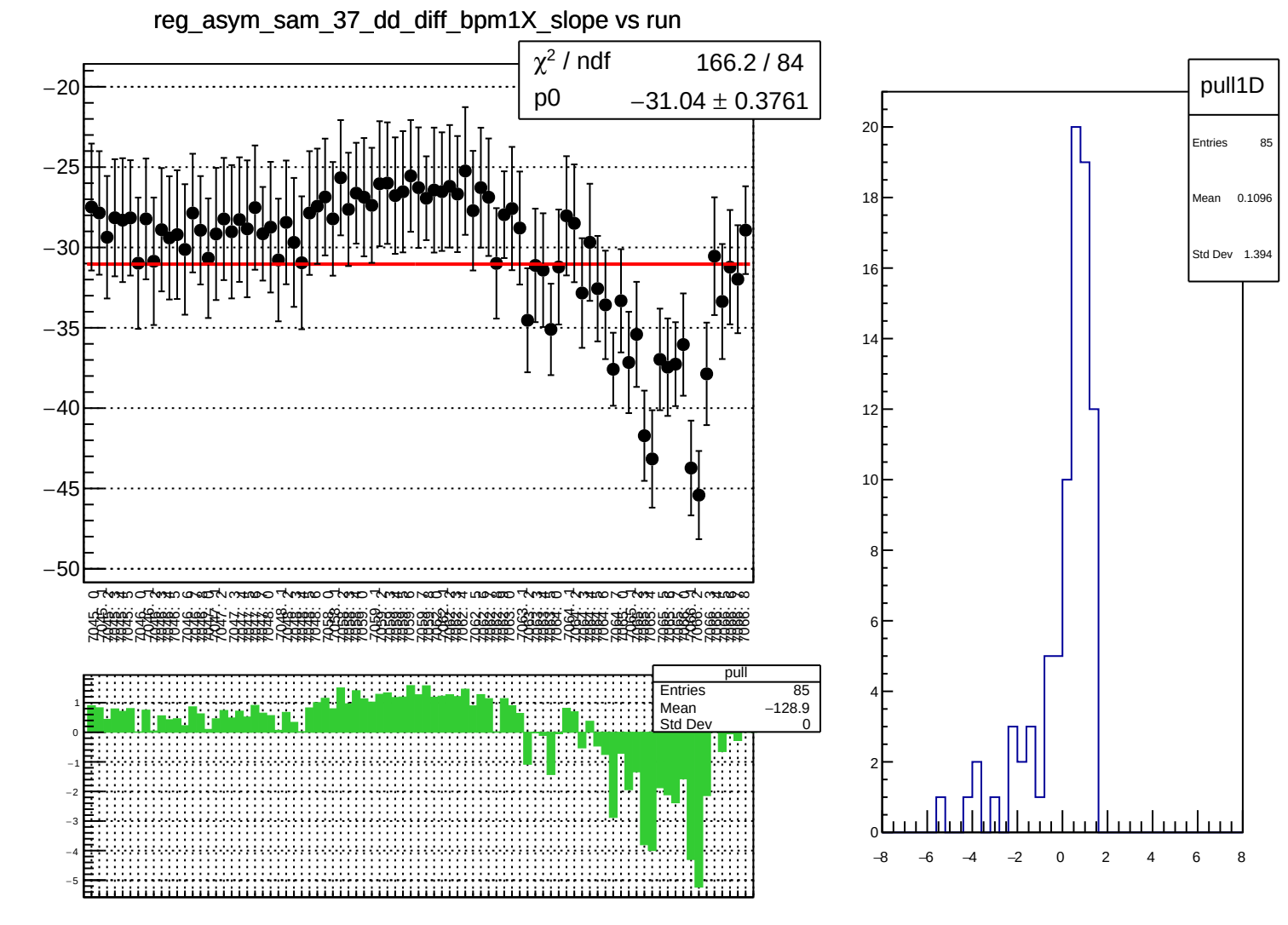

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.3 / 84
p0 5.668 ± 0.4784
pull
Entries 85
Mean −309.9
Std Dev 0
pull1D
Entries 85
Mean −0.06606
Std Dev 1.168

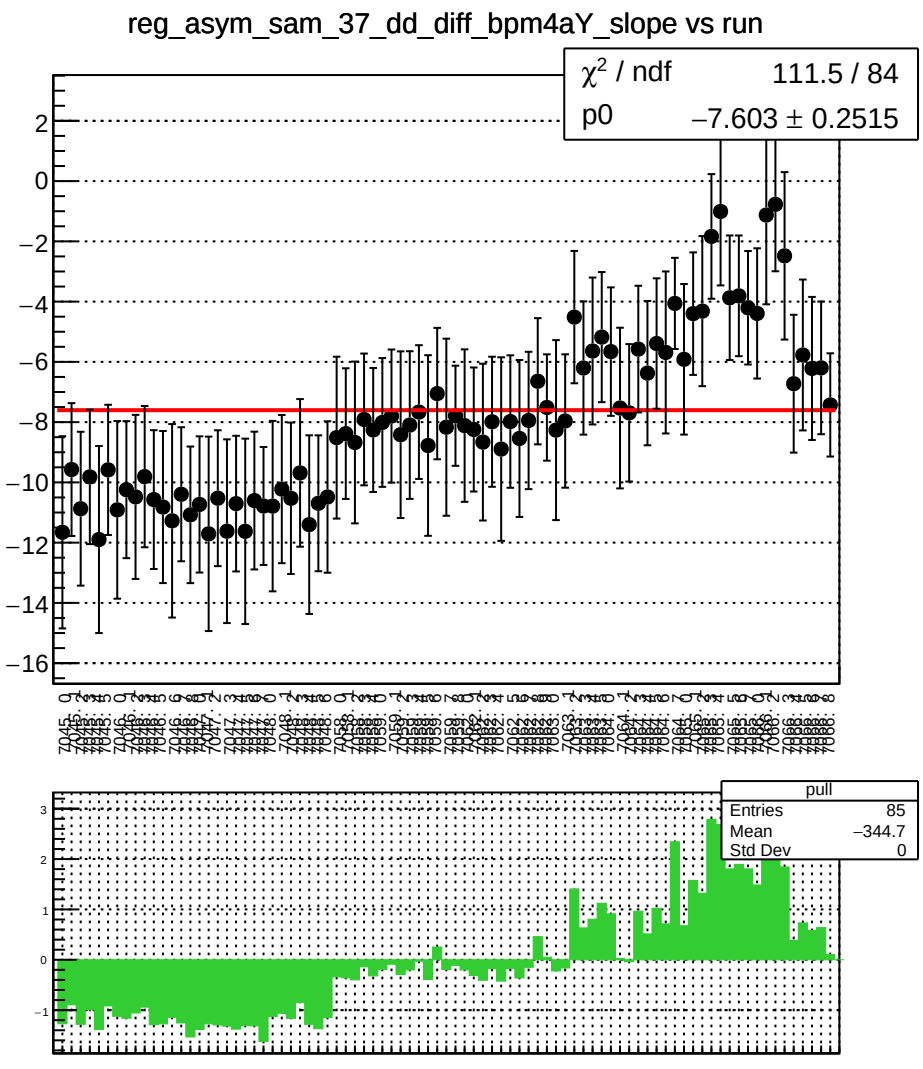

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 251.7 / 84
p0 −62.69 ± 0.6827
pull
Entries 85
Mean −132.6
Std Dev 0
pull1D
Entries 85
Mean −0.171
Std Dev 1.712

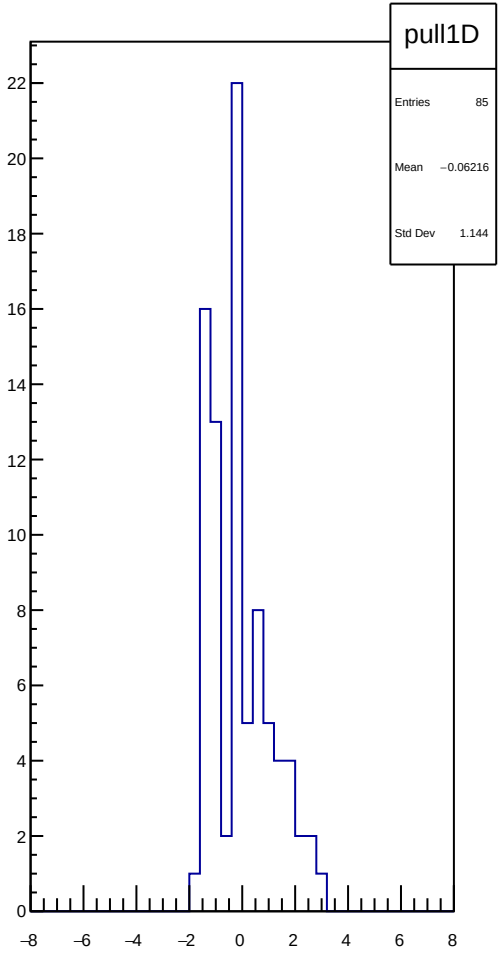

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 145.7 / 84
p0 2.531 ± 0.5104
pull
Entries 85
Mean −306.9
Std Dev 0
pull1D
Entries 85
Mean 0.07599
Std Dev 1.307

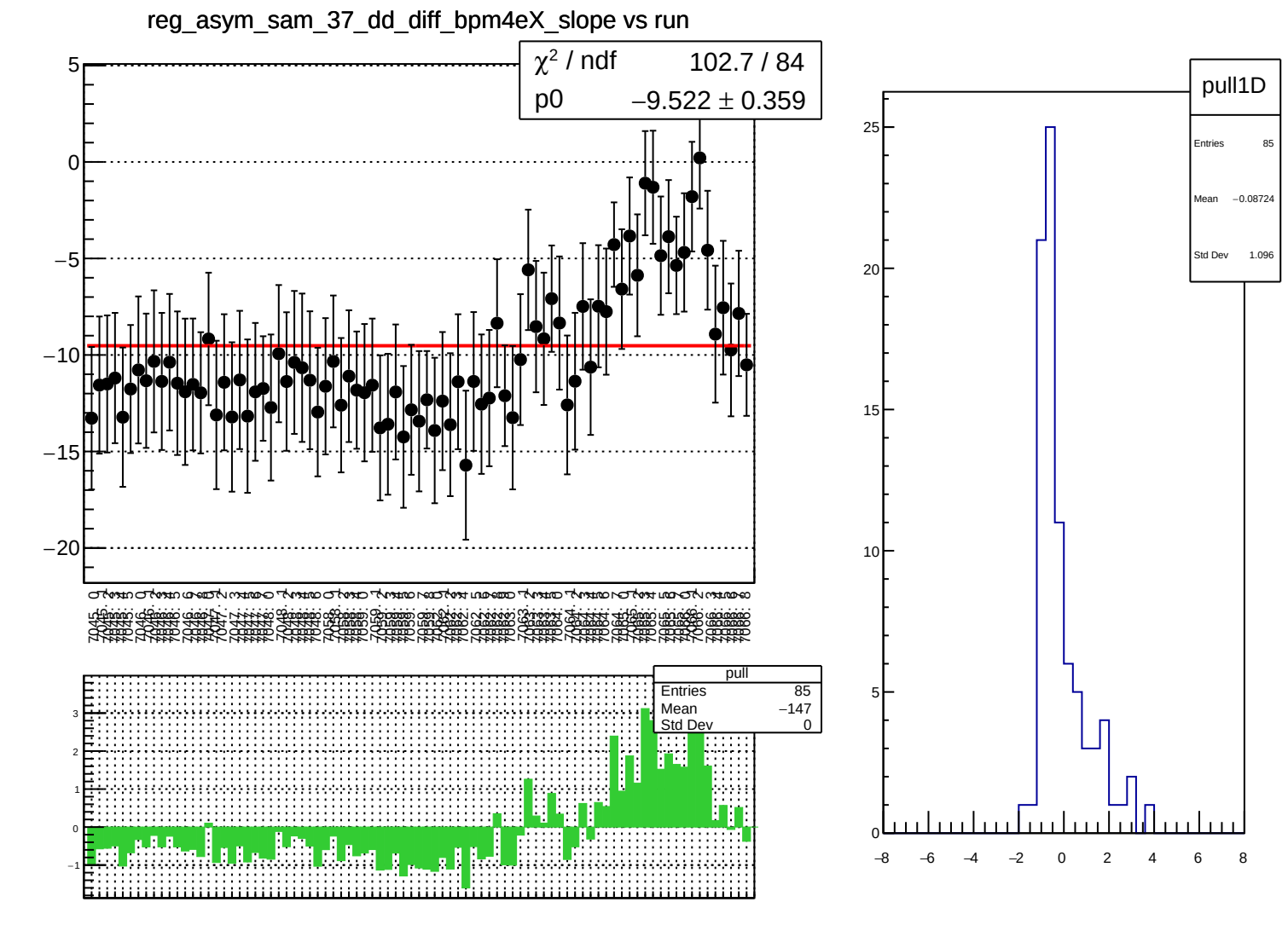

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 7.967 / 84
p0 0.3206 ± 0.02385
pull
Entries 85
Mean −1211
Std Dev 0

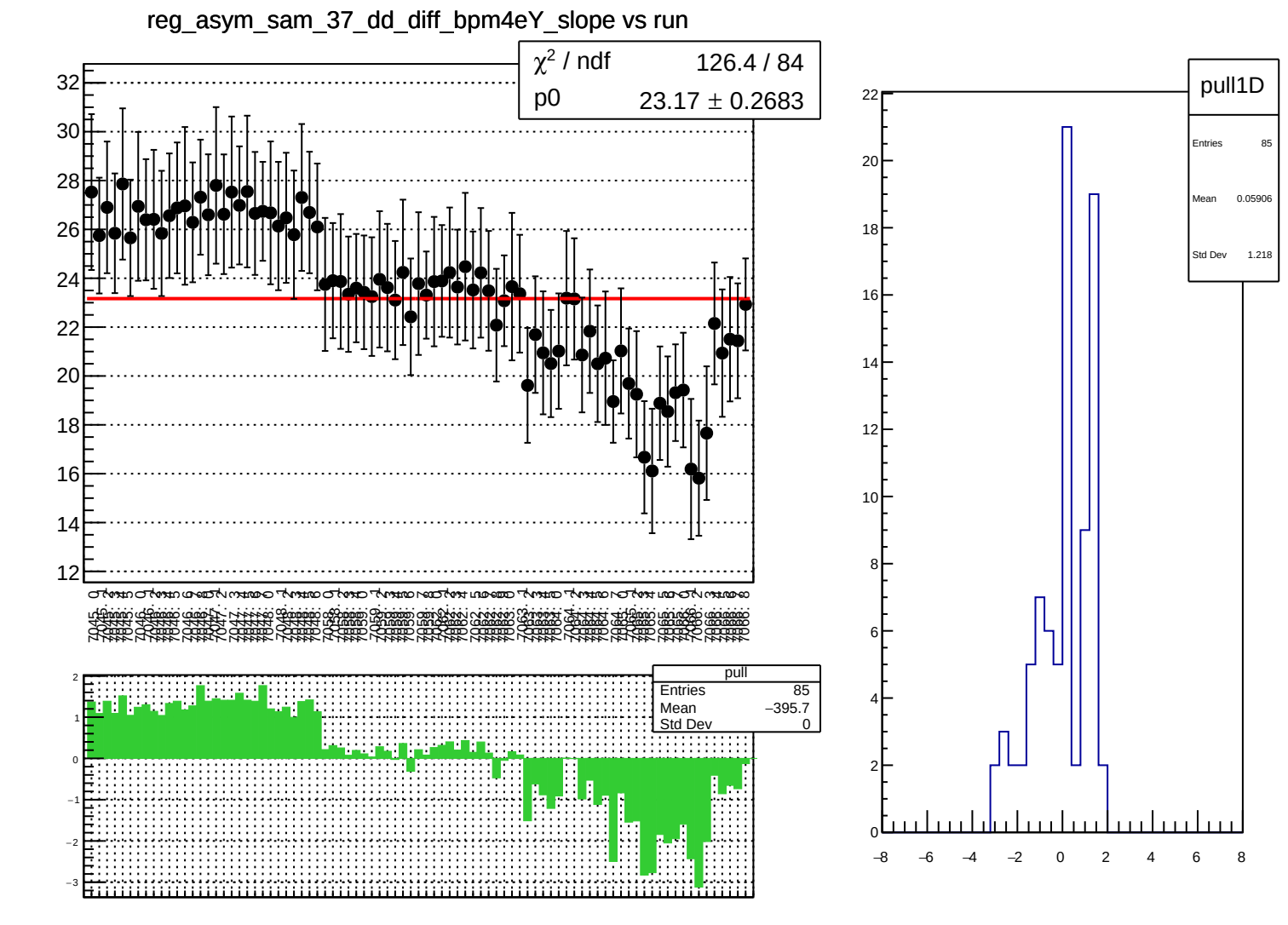

pull1D
Entries 85
Mean 0.003623
Std Dev 0.3061

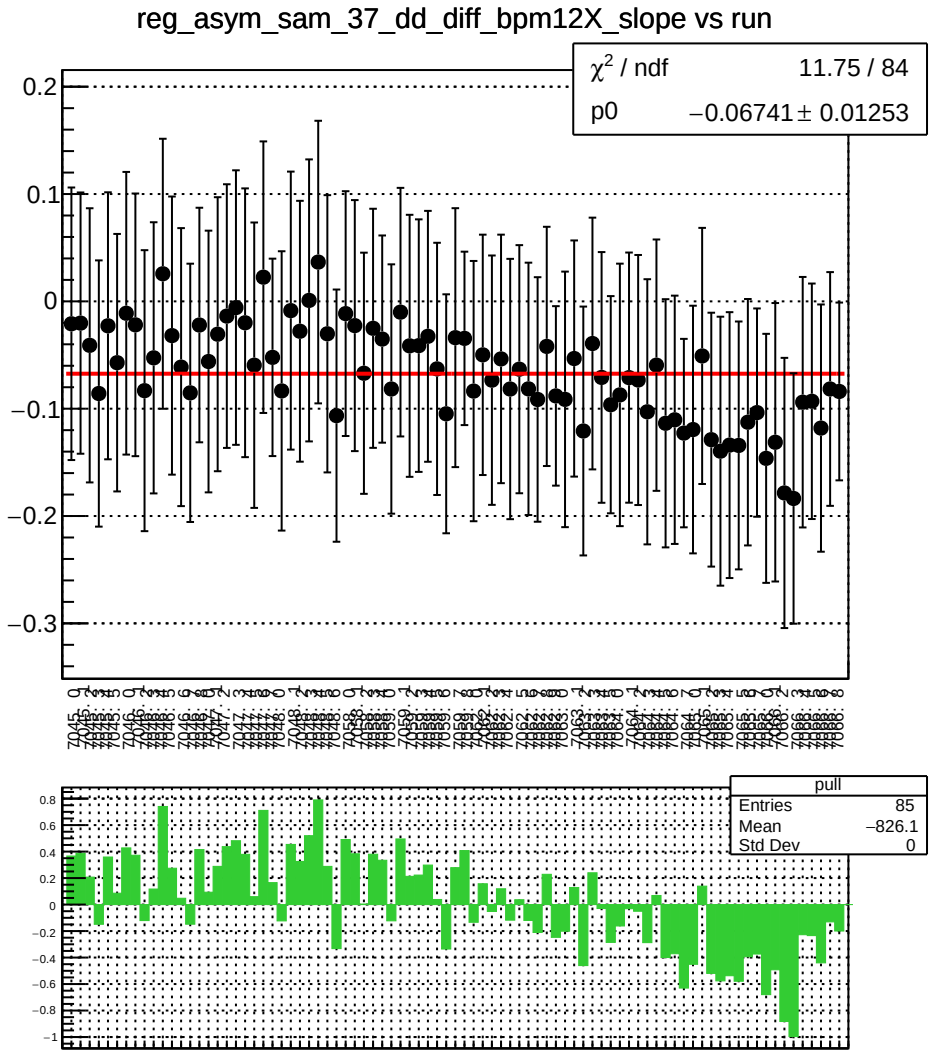

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 166.2 / 84
p0 −31.04 ± 0.3761
pull
Entries 85
Mean −128.9
Std Dev 0
pull1D
Entries 85
Mean 0.1096
Std Dev 1.394

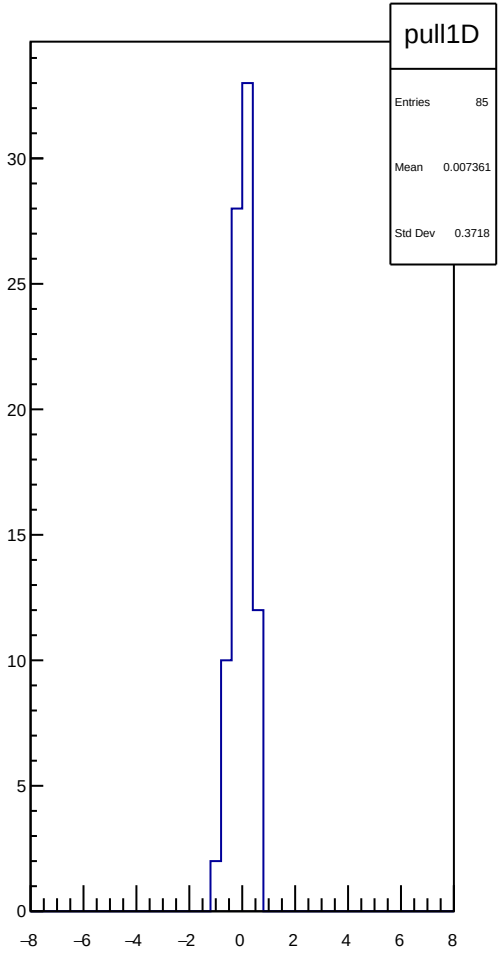

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 111.5 / 84
p0 −7.603 ± 0.2515
pull
Entries 85
Mean −344.7
Std Dev 0

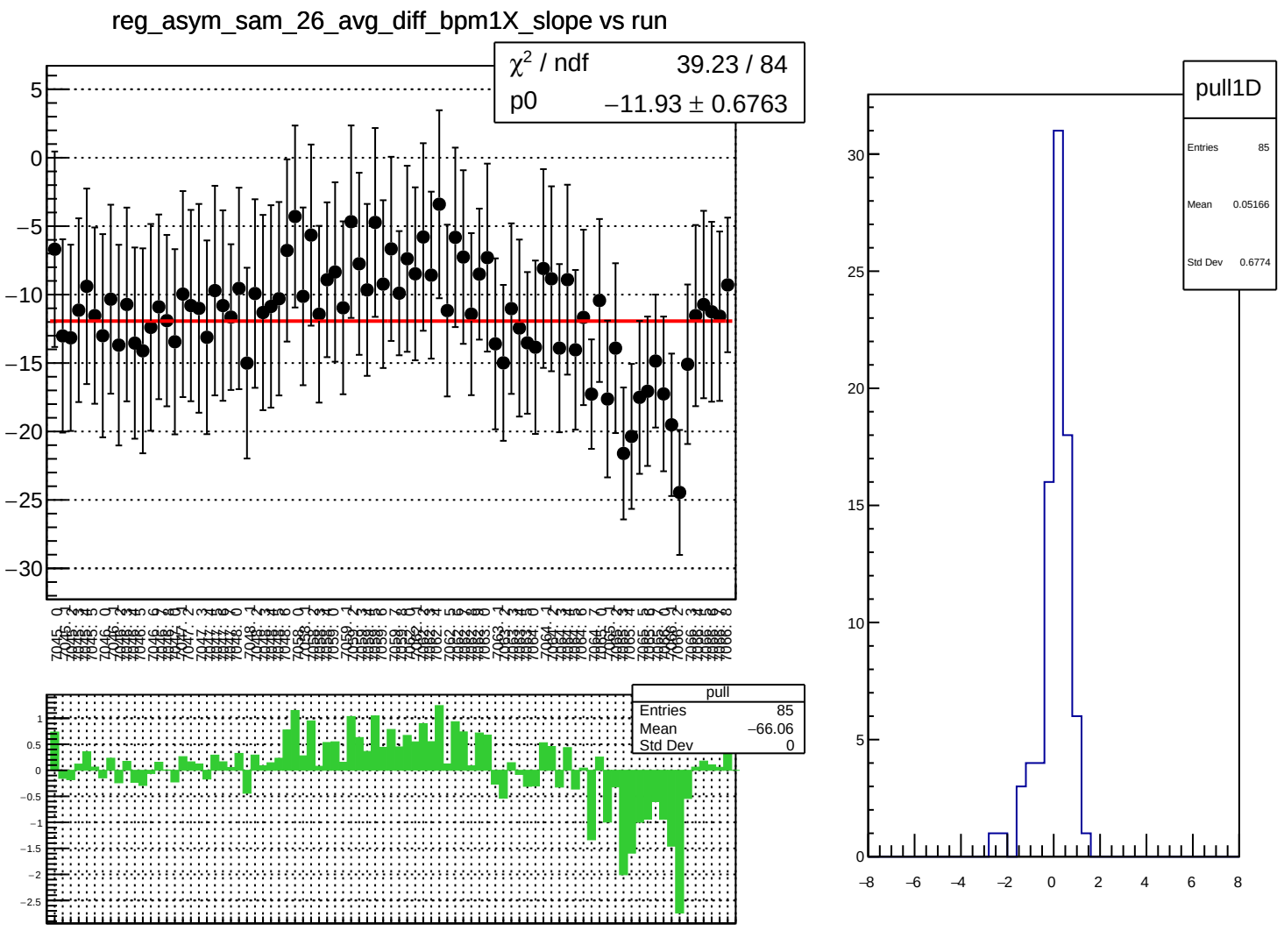

pull1D
Entries 85
Mean −0.06216
Std Dev 1.144

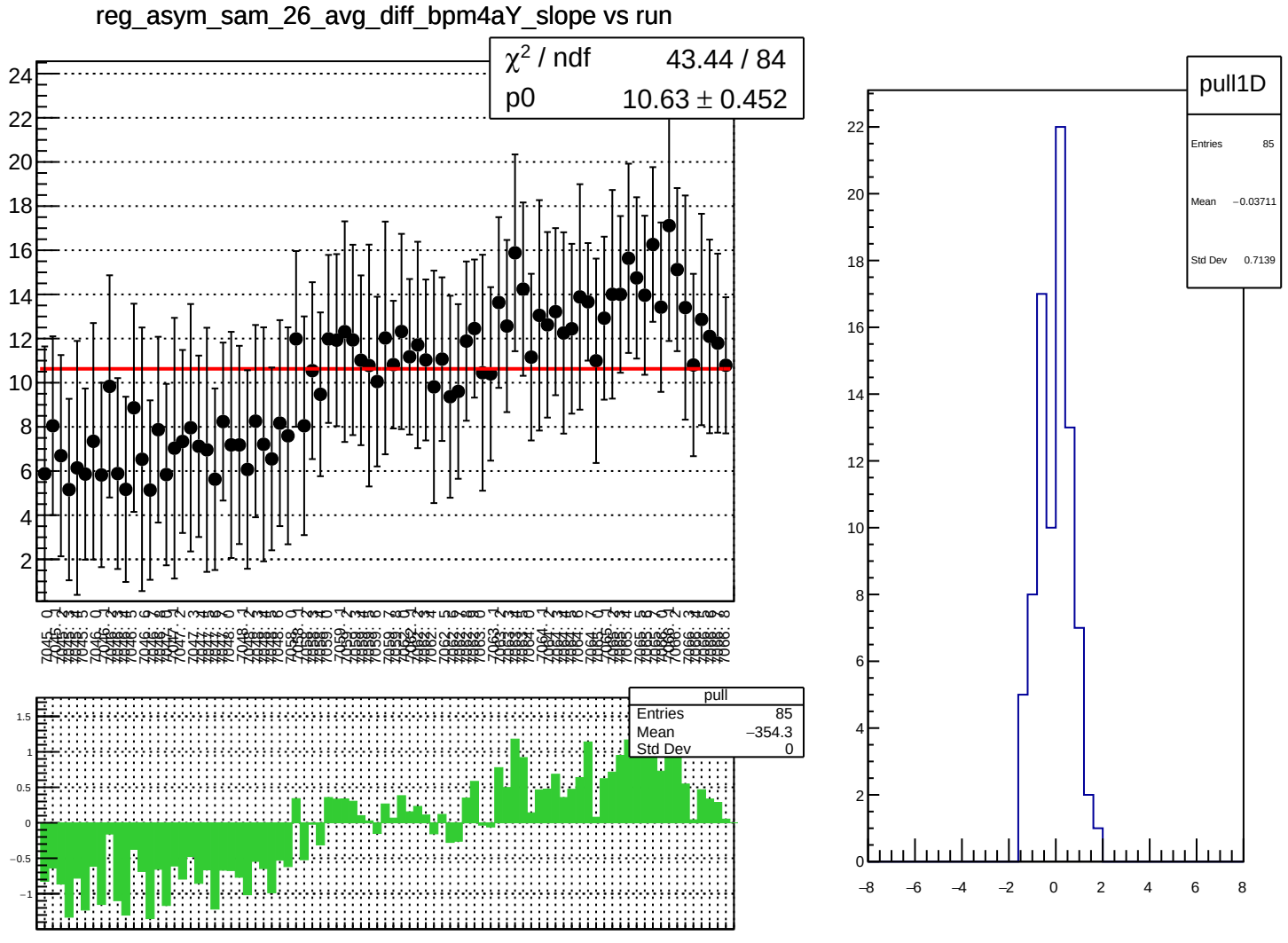

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.7 / 84
p0 −9.522 ± 0.359
pull
Entries 85
Mean −147
Std Dev 0
pull1D
Entries 85
Mean −0.08724
Std Dev 1.096

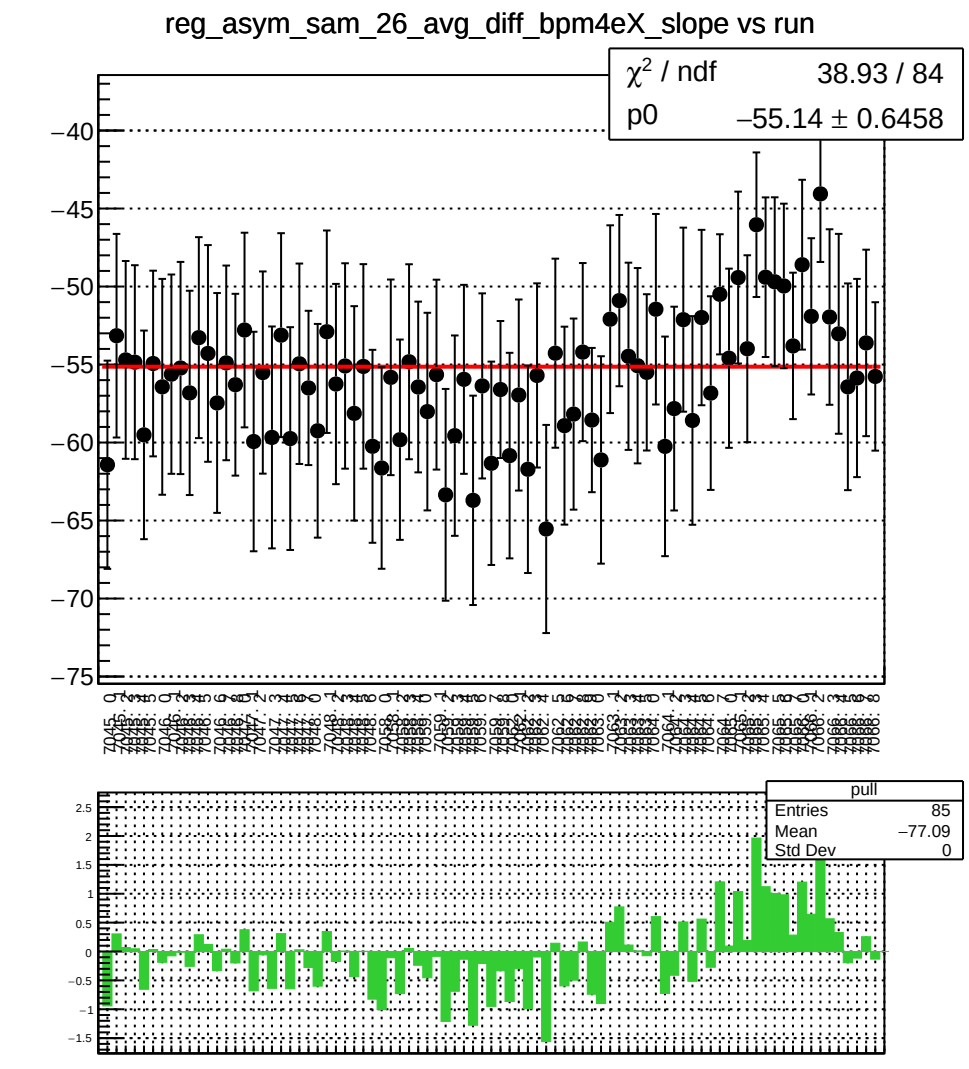

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 126.4 / 84
p0 23.17 ± 0.2683
pull
Entries 85
Mean −395.7
Std Dev 0
pull1D
Entries 85
Mean 0.05906
Std Dev 1.218

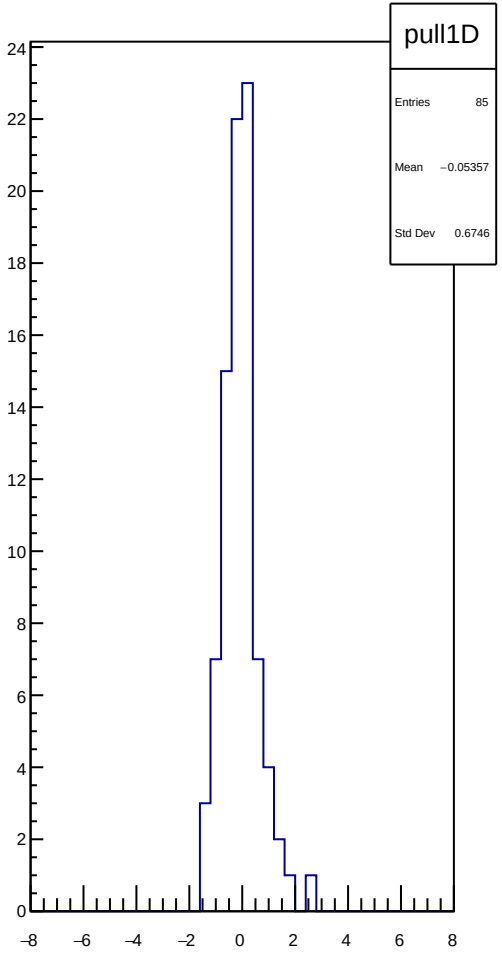

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.75 / 84
p0 −0.06741 ± 0.01253
pull
Entries 85
Mean −826.1
Std Dev 0

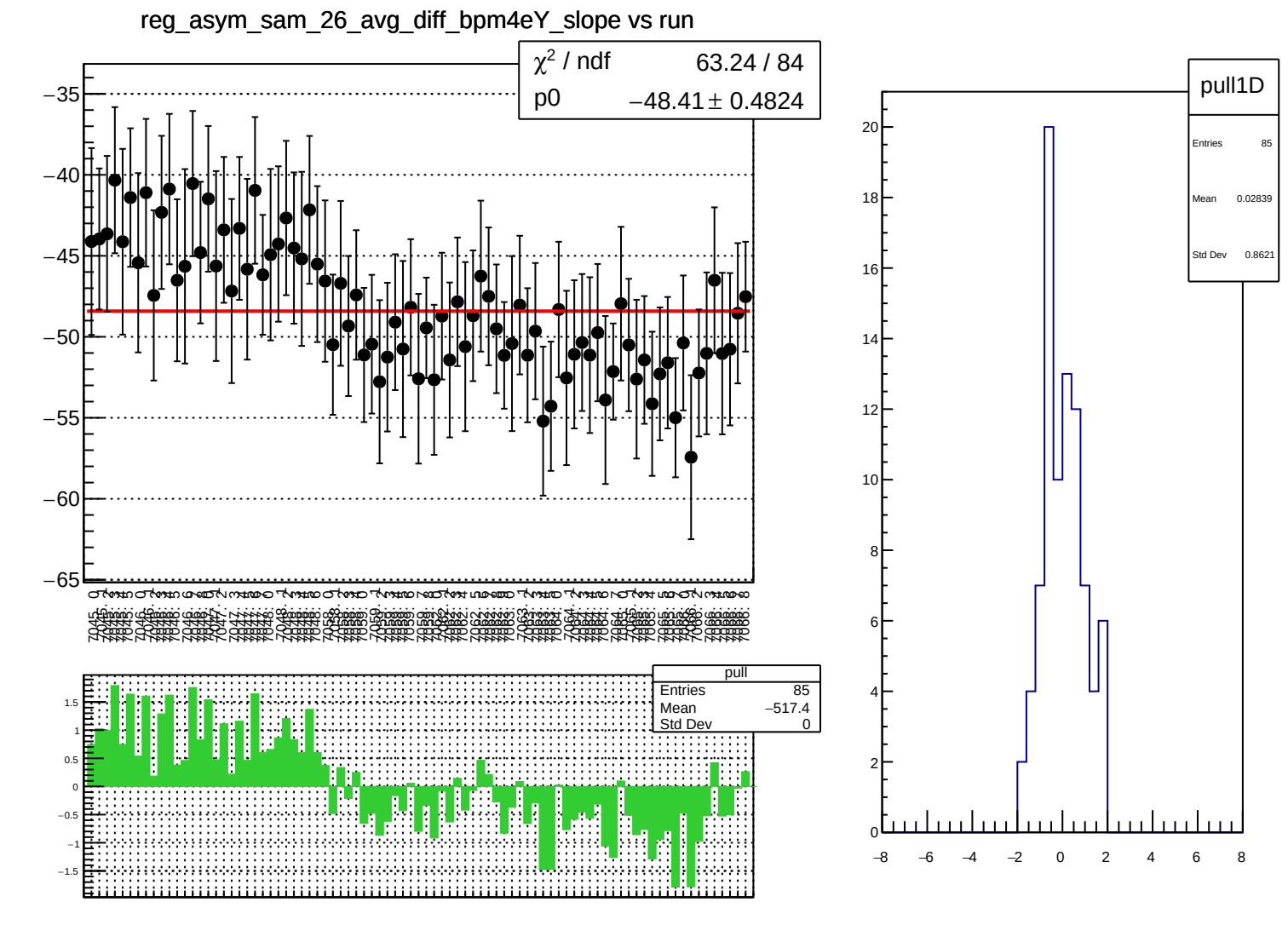

pull1D
Entries 85
Mean 0.007361
Std Dev 0.3718

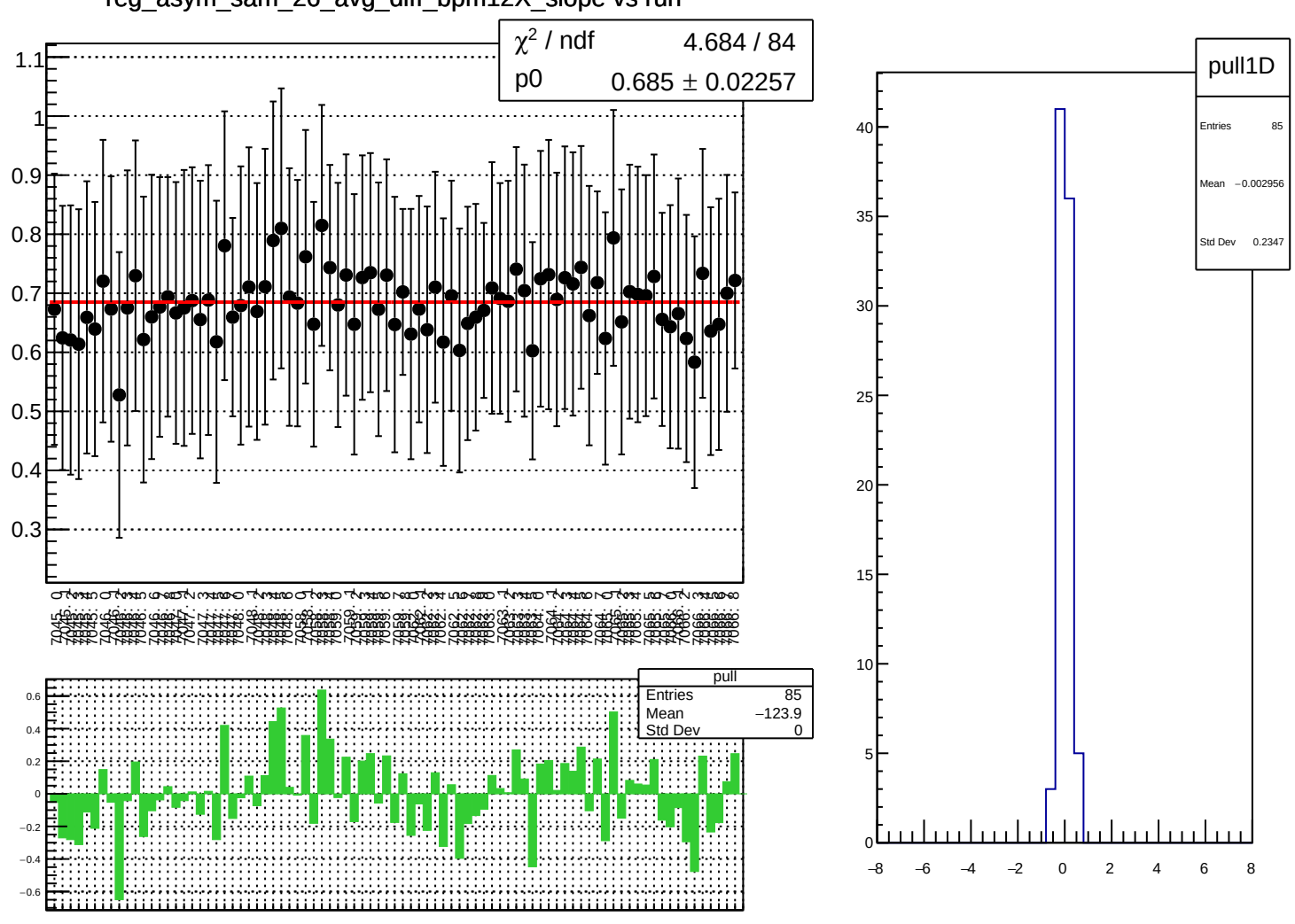

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 39.23 / 84
p0 −11.93 ± 0.6763
pull
Entries 85
Mean −66.06
Std Dev 0
pull1D
Entries 85
Mean 0.05166
Std Dev 0.6774

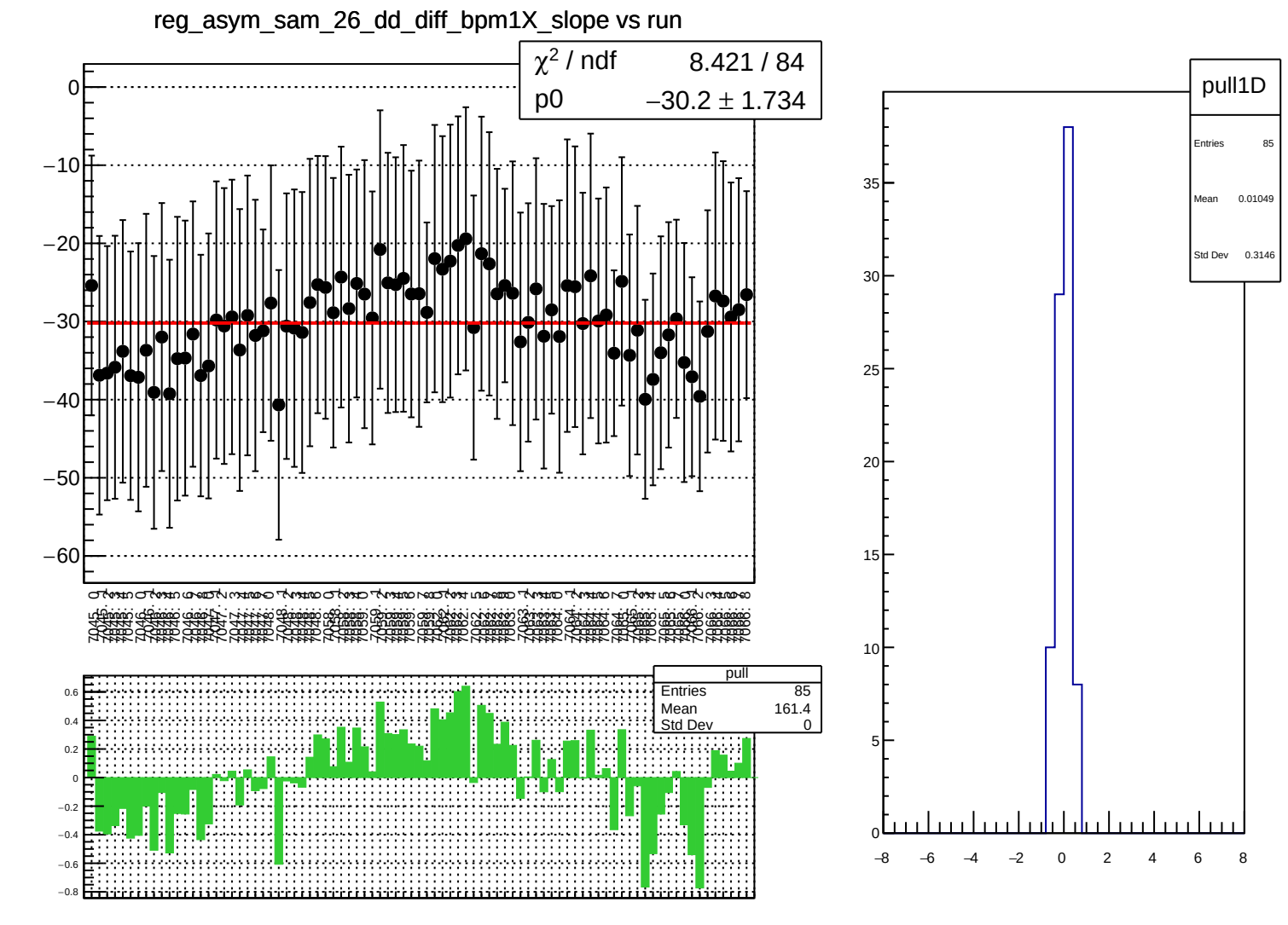

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.44 / 84
p0 10.63 ± 0.452
pull
Entries 85
Mean −354.3
Std Dev 0
pull1D
Entries 85
Mean −0.03711
Std Dev 0.7139

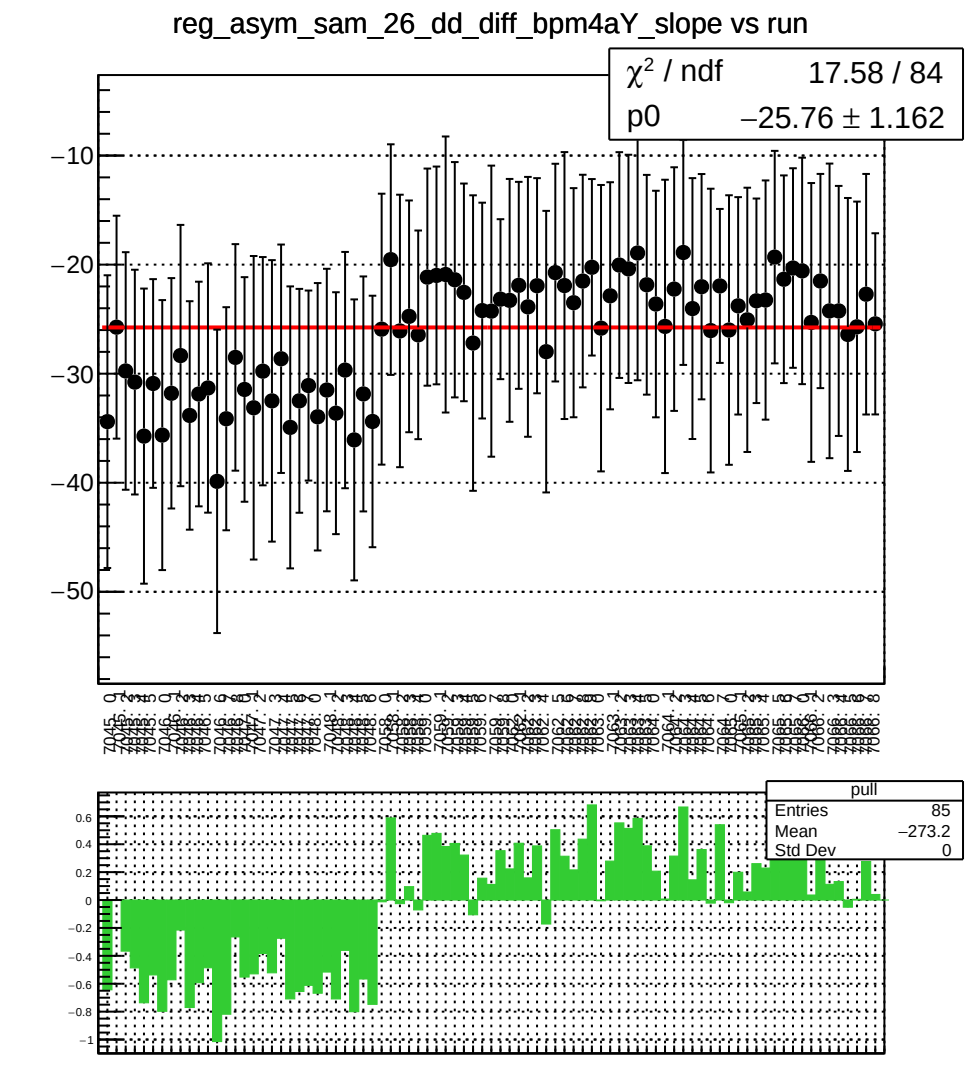

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.93 / 84
p0 −55.14 ± 0.6458
pull
Entries 85
Mean −77.09
Std Dev 0

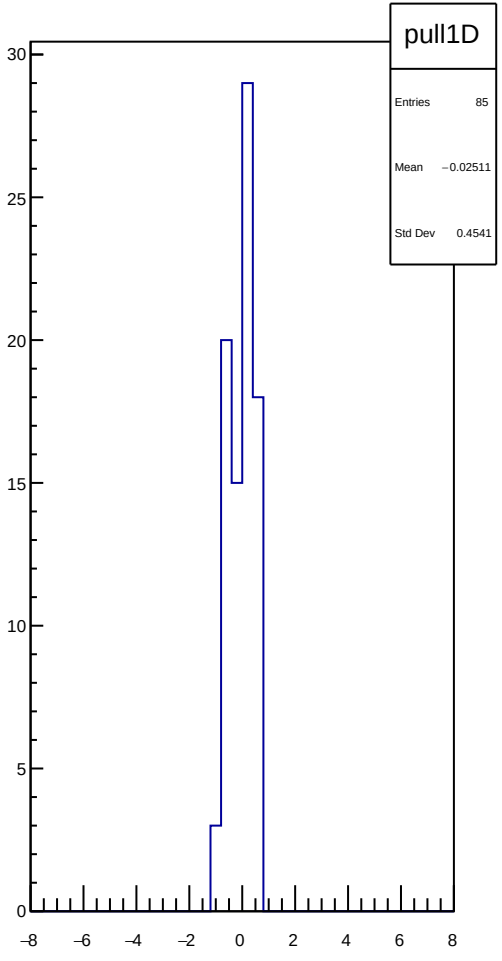

pull1D
Entries 85
Mean −0.05357
Std Dev 0.6746

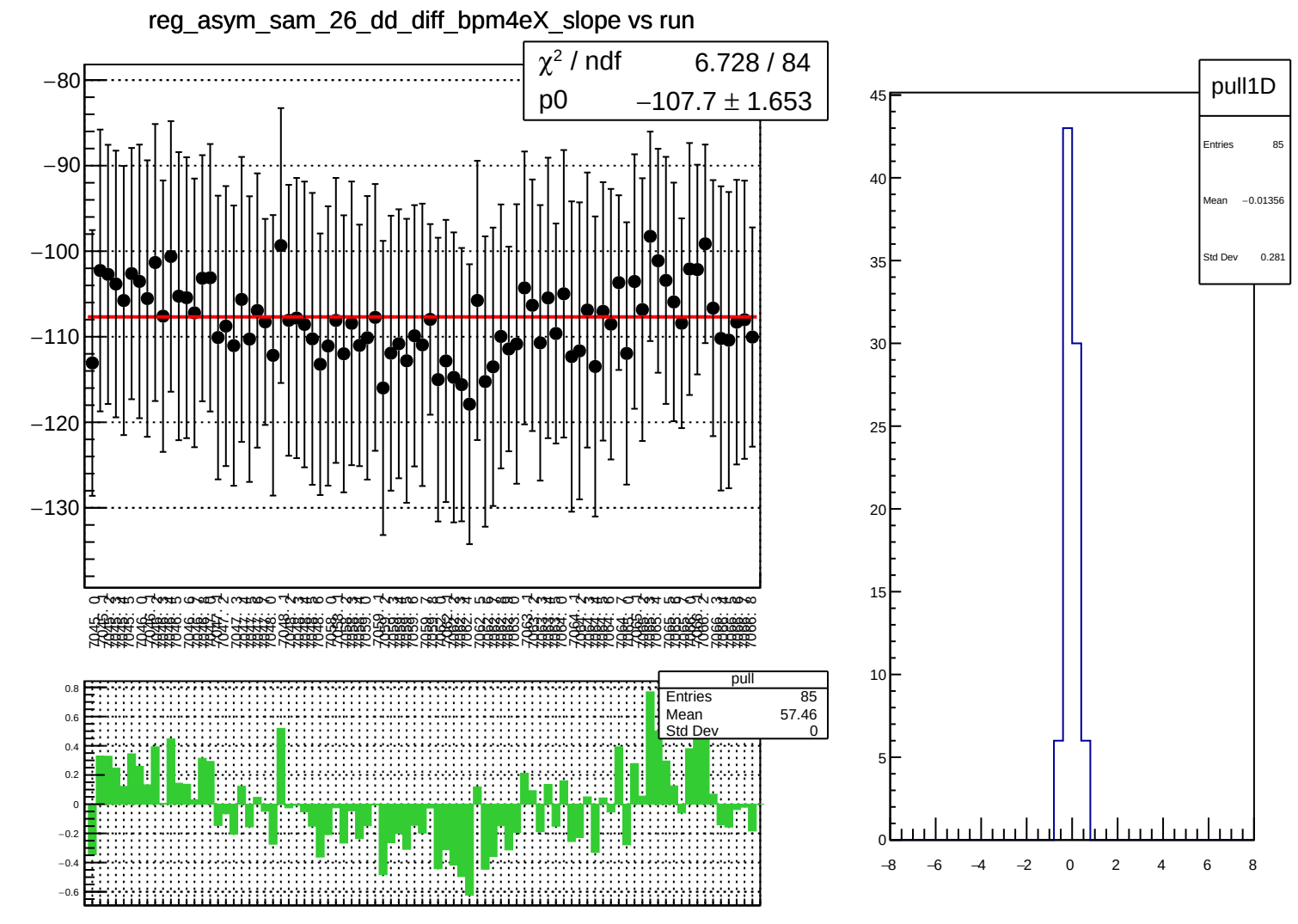

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.24 / 84
p0 −48.41 ± 0.4824
pull
Entries 85
Mean −517.4
Std Dev 0
pull1D
Entries 85
Mean 0.02839
Std Dev 0.8621

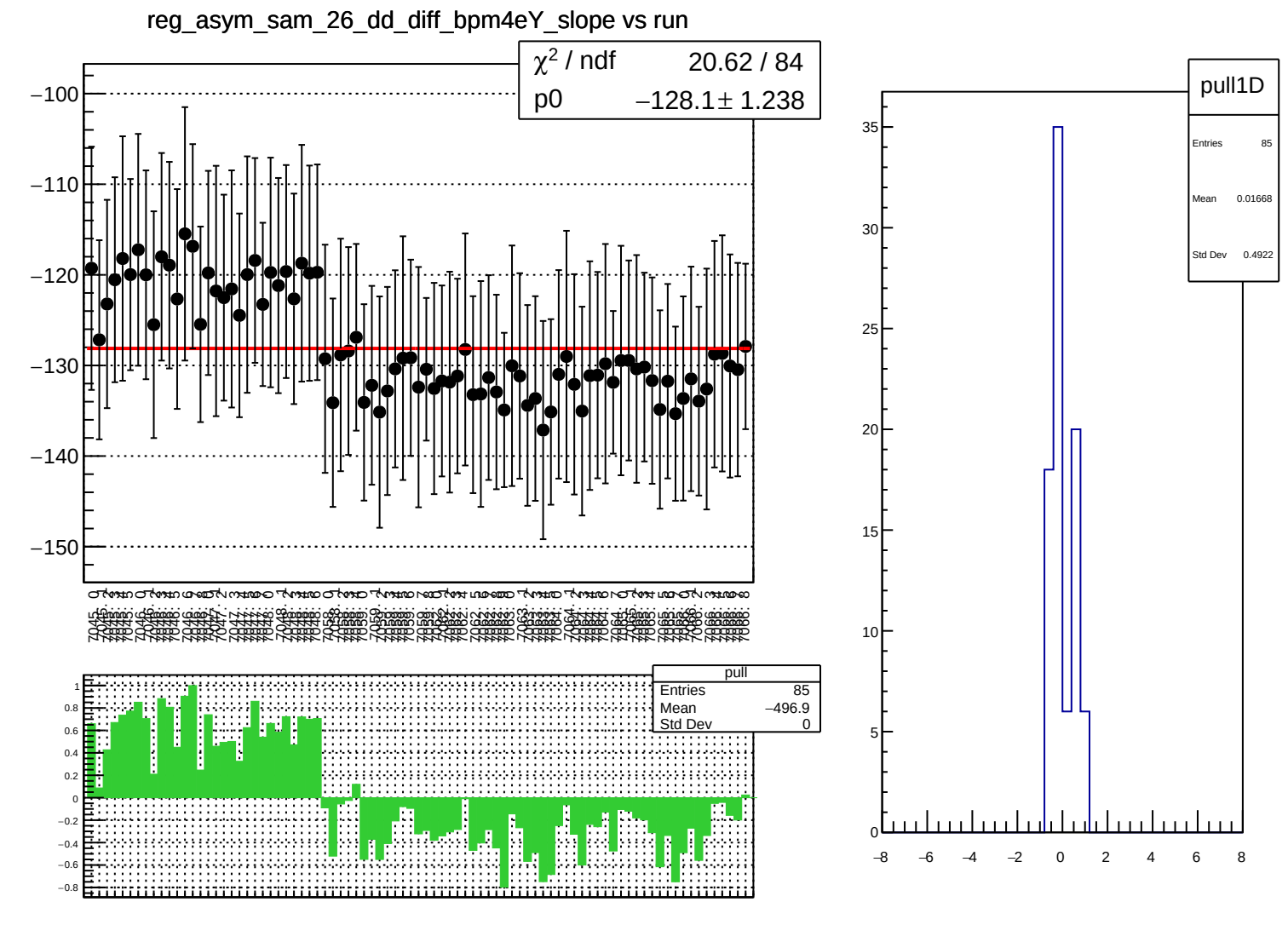

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.684 / 84
p0 0.685 ± 0.02257
pull
Entries 85
Mean −123.9
Std Dev 0
pull1D
Entries 85
Mean −0.002956
Std Dev 0.2347

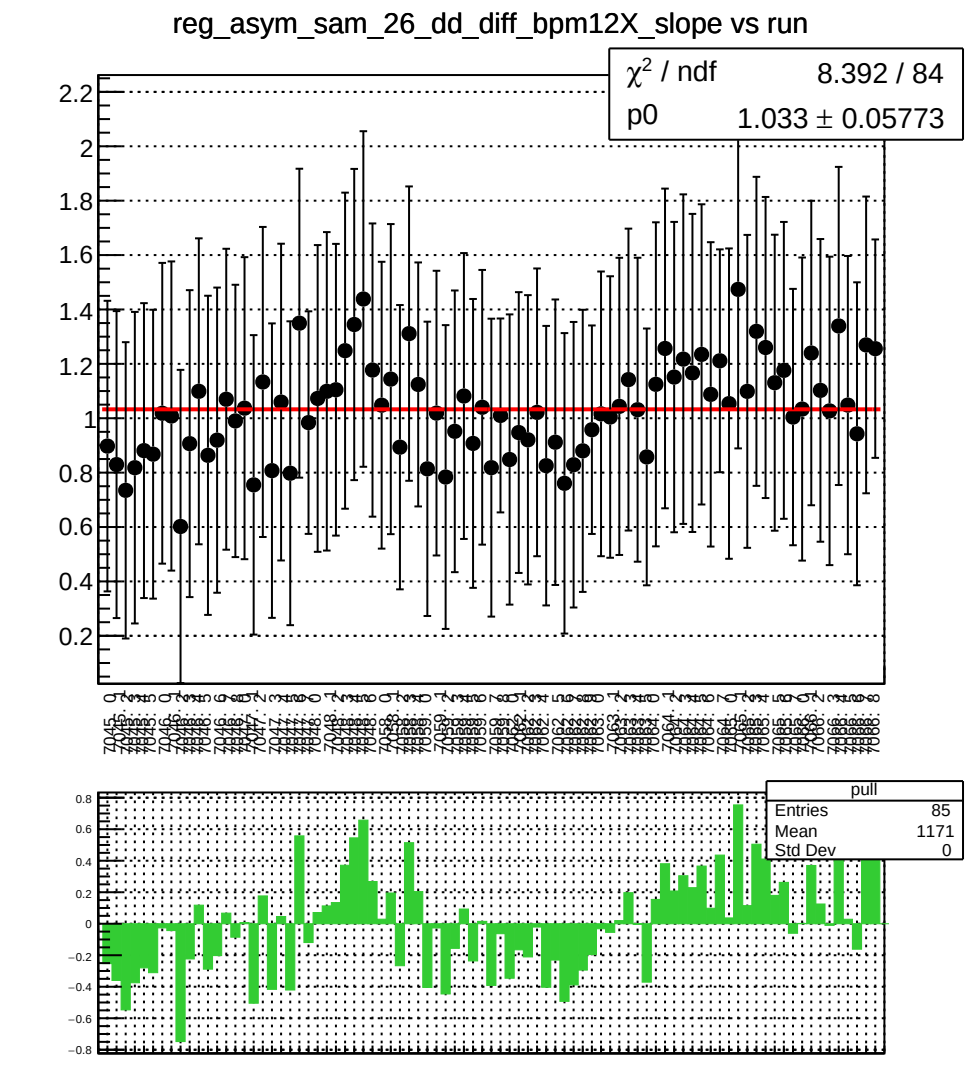

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 8.421 / 84
p0 −30.2 ± 1.734
pull
Entries 85
Mean 161.4
Std Dev 0
pull1D
Entries 85
Mean 0.01049
Std Dev 0.3146

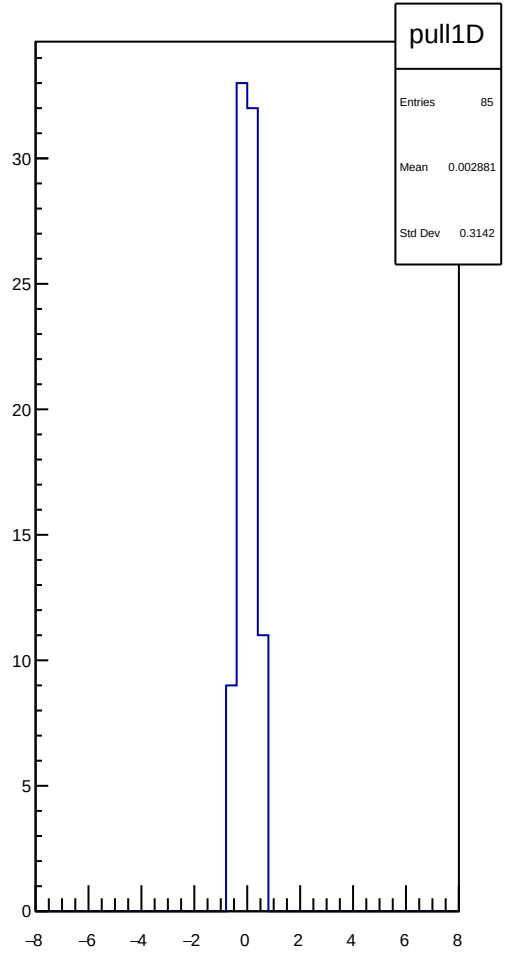

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.58 / 84
p0 −25.76 ± 1.162
pull
Entries 85
Mean −273.2
Std Dev 0

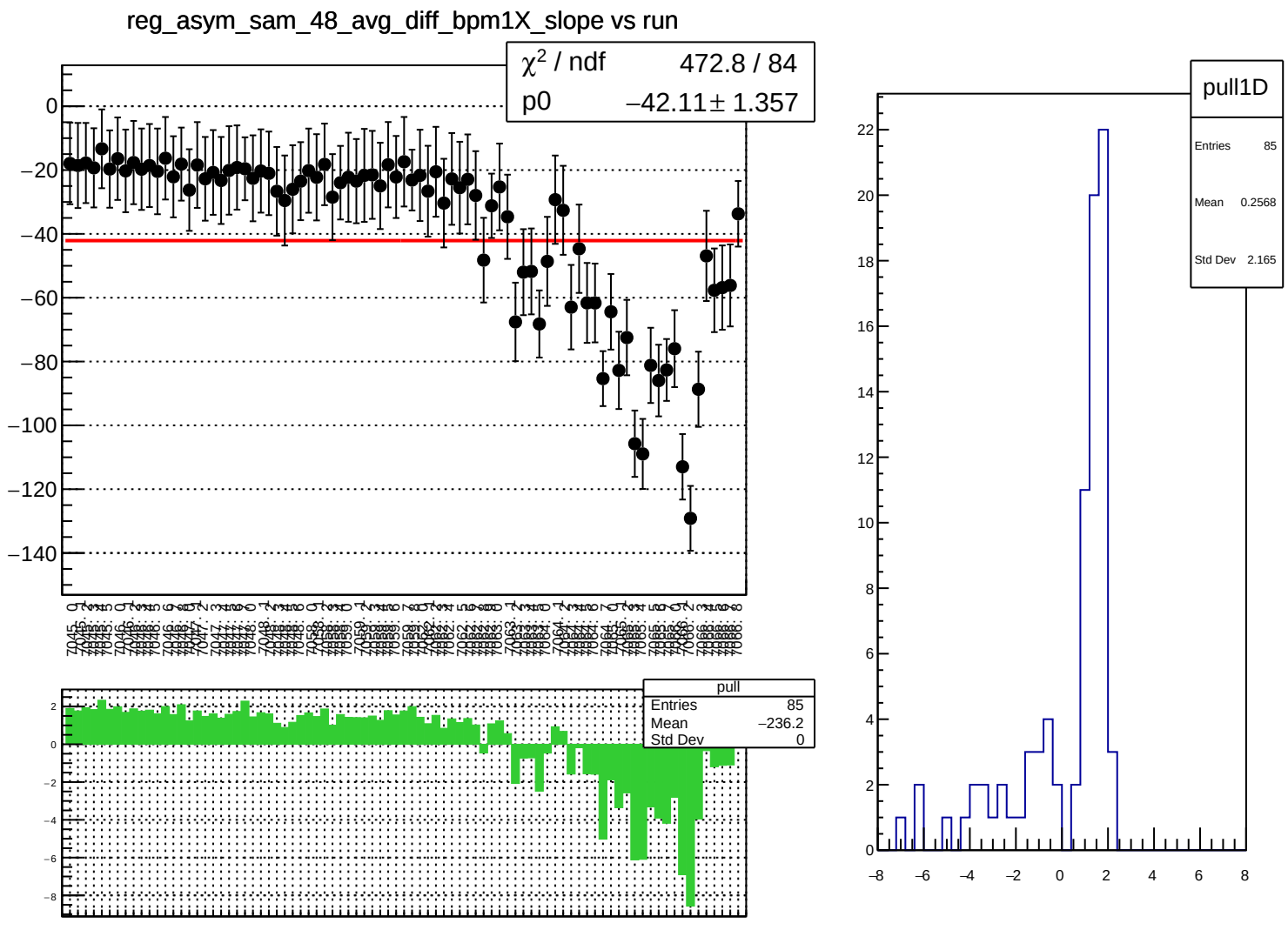

pull1D
Entries 85
Mean −0.02511
Std Dev 0.4541

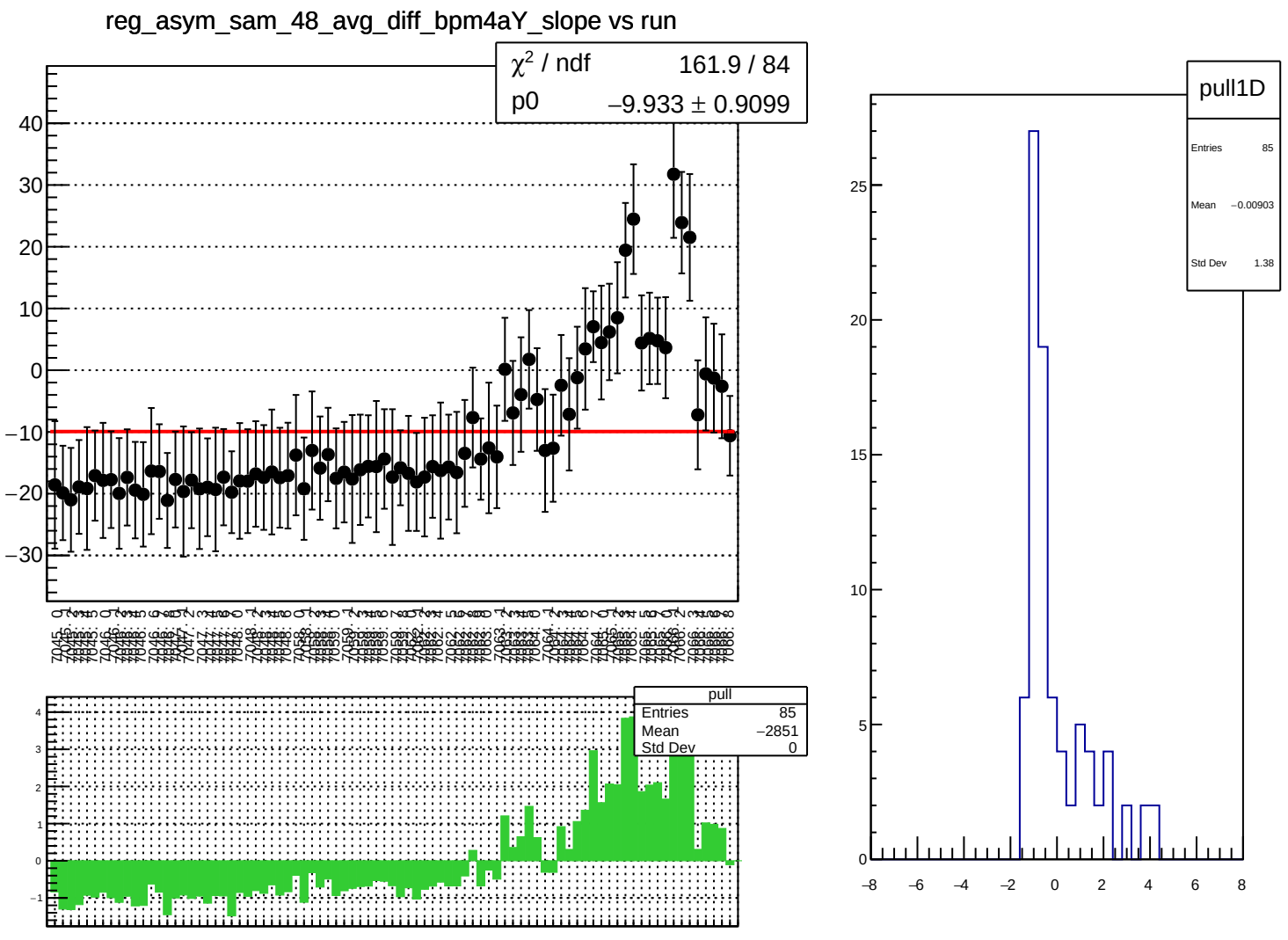

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.728 / 84
p0 −107.7 ± 1.653
−80
−90
−100
−110
−120
−130
pull
Entries 85
Mean 57.46
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.01356
Std Dev 0.281
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

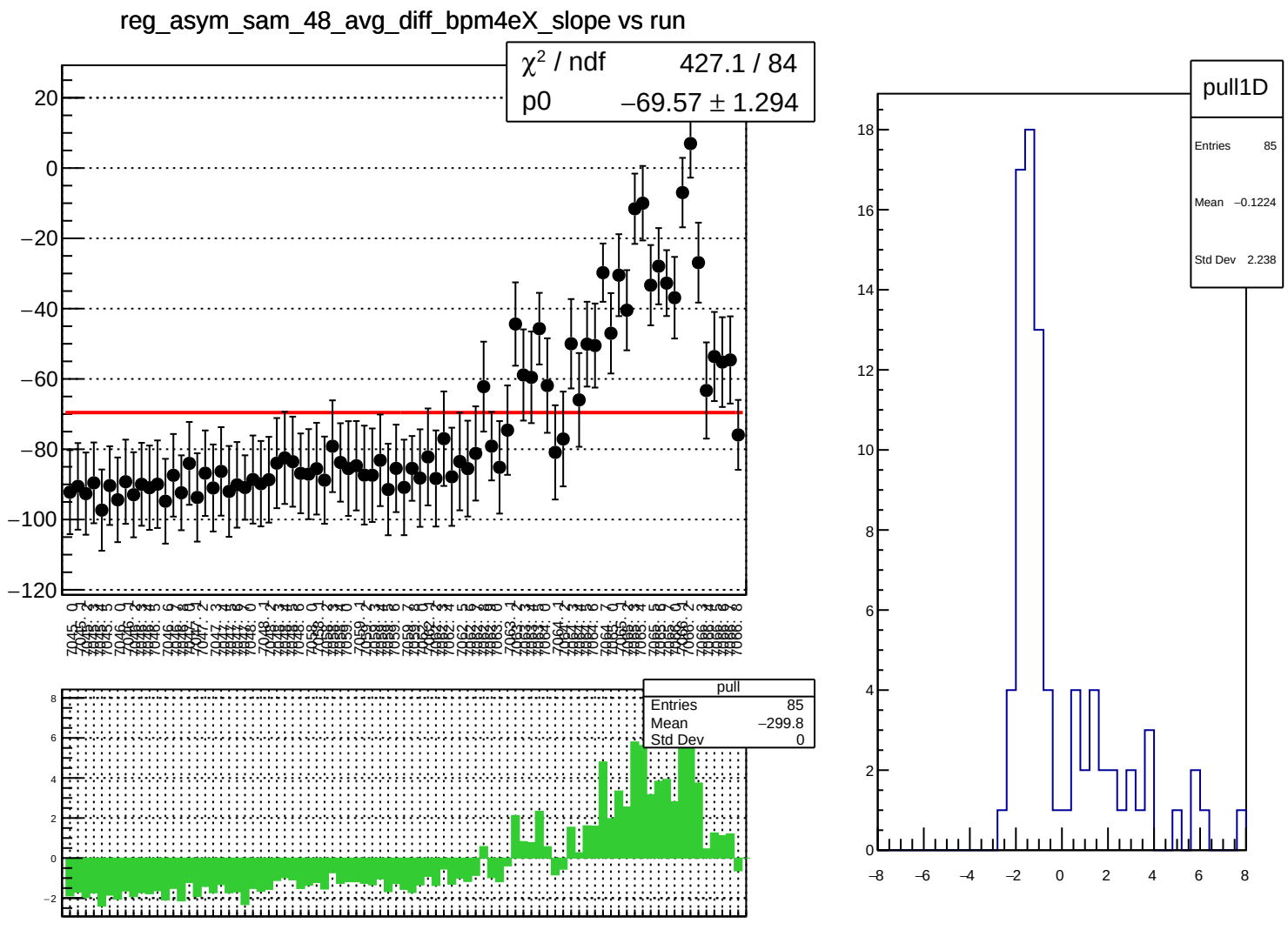

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.62 / 84
p0 −128.1± 1.238
pull
Entries 85
Mean −496.9
Std Dev 0
pull1D
Entries 85
Mean 0.01668
Std Dev 0.4922

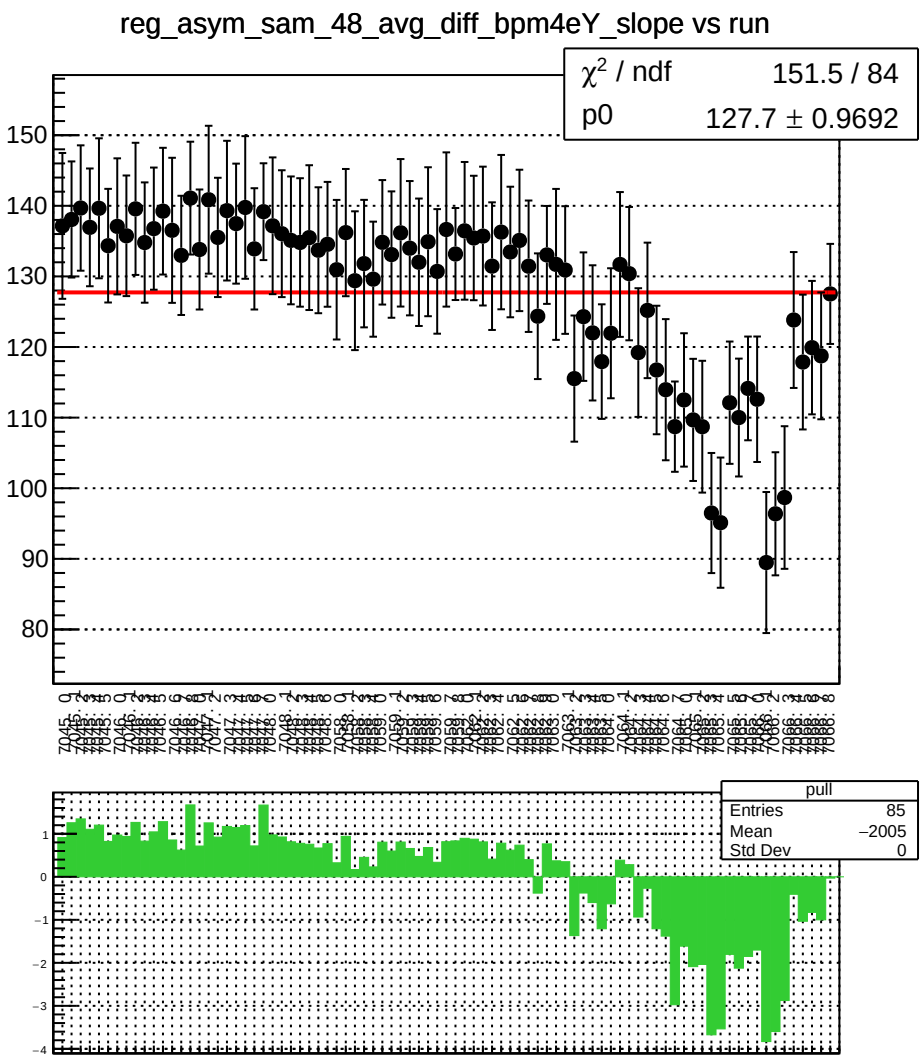

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.392 / 84
p0 1.033 ± 0.05773
pull
Entries 85
Mean 1171
Std Dev 0

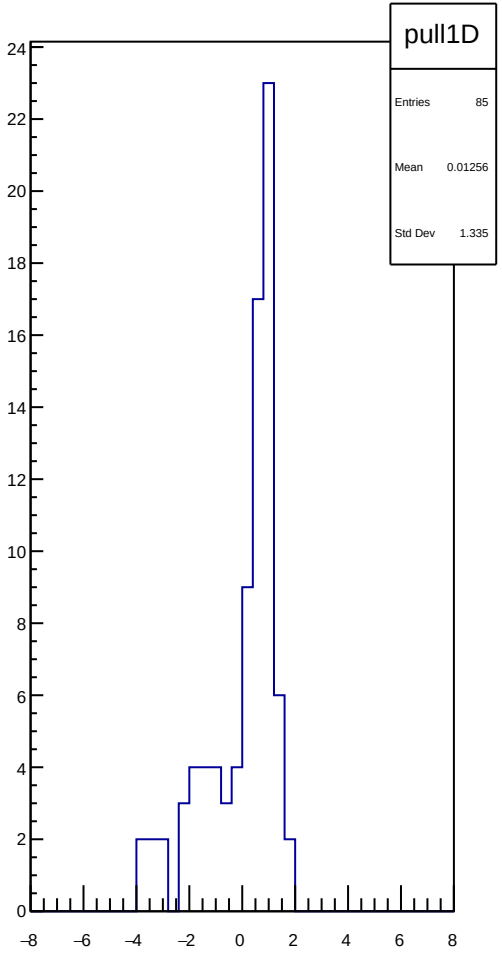

pull1D
Entries 85
Mean 0.002881
Std Dev 0.3142

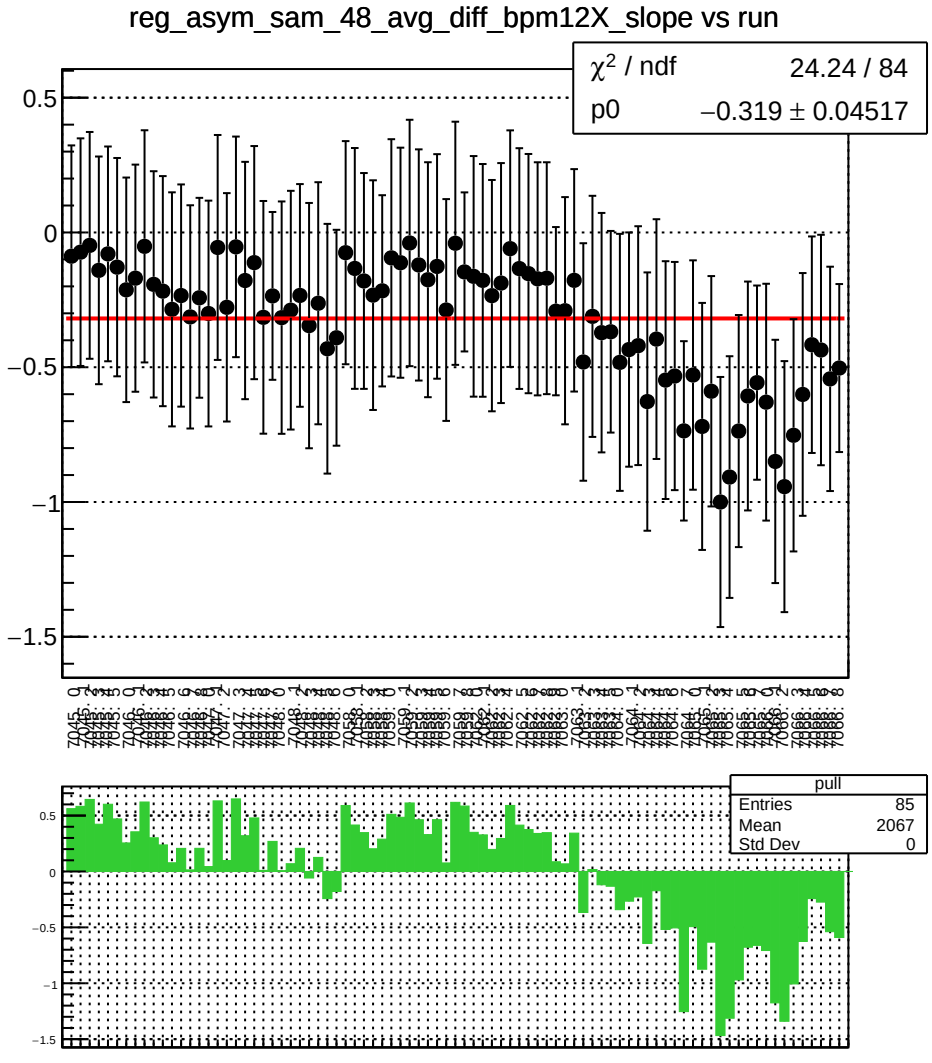

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 472.8 / 84
p0 −42.11 ± 1.357
pull
Entries 85
Mean −236.2
Std Dev 0
pull1D
Entries 85
Mean 0.2568
Std Dev 2.165

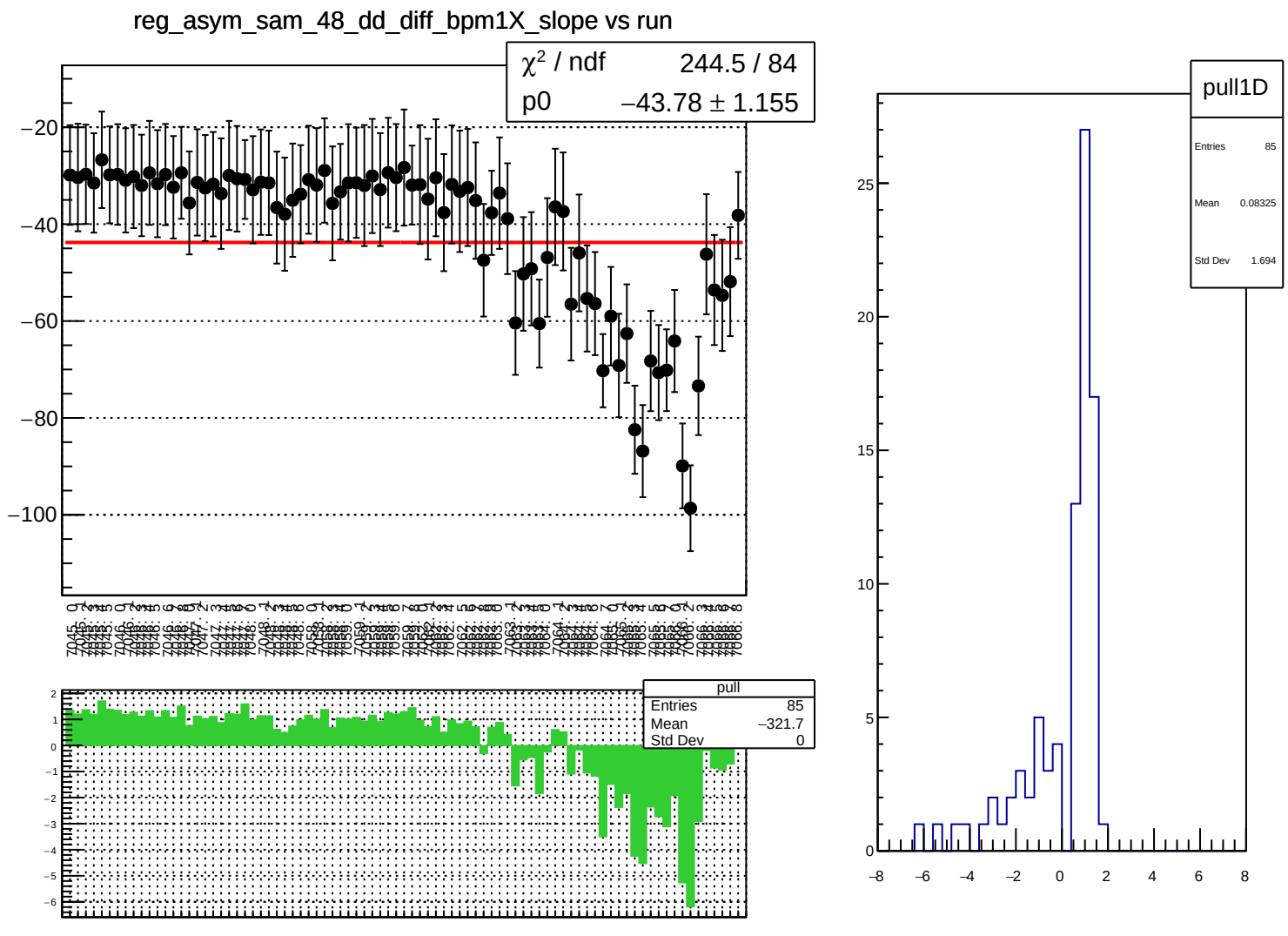

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 161.9 / 84
p0 −9.933 ± 0.9099
pull
Entries 85
Mean −2851
Std Dev 0
pull1D
Entries 85
Mean −0.00903
Std Dev 1.38

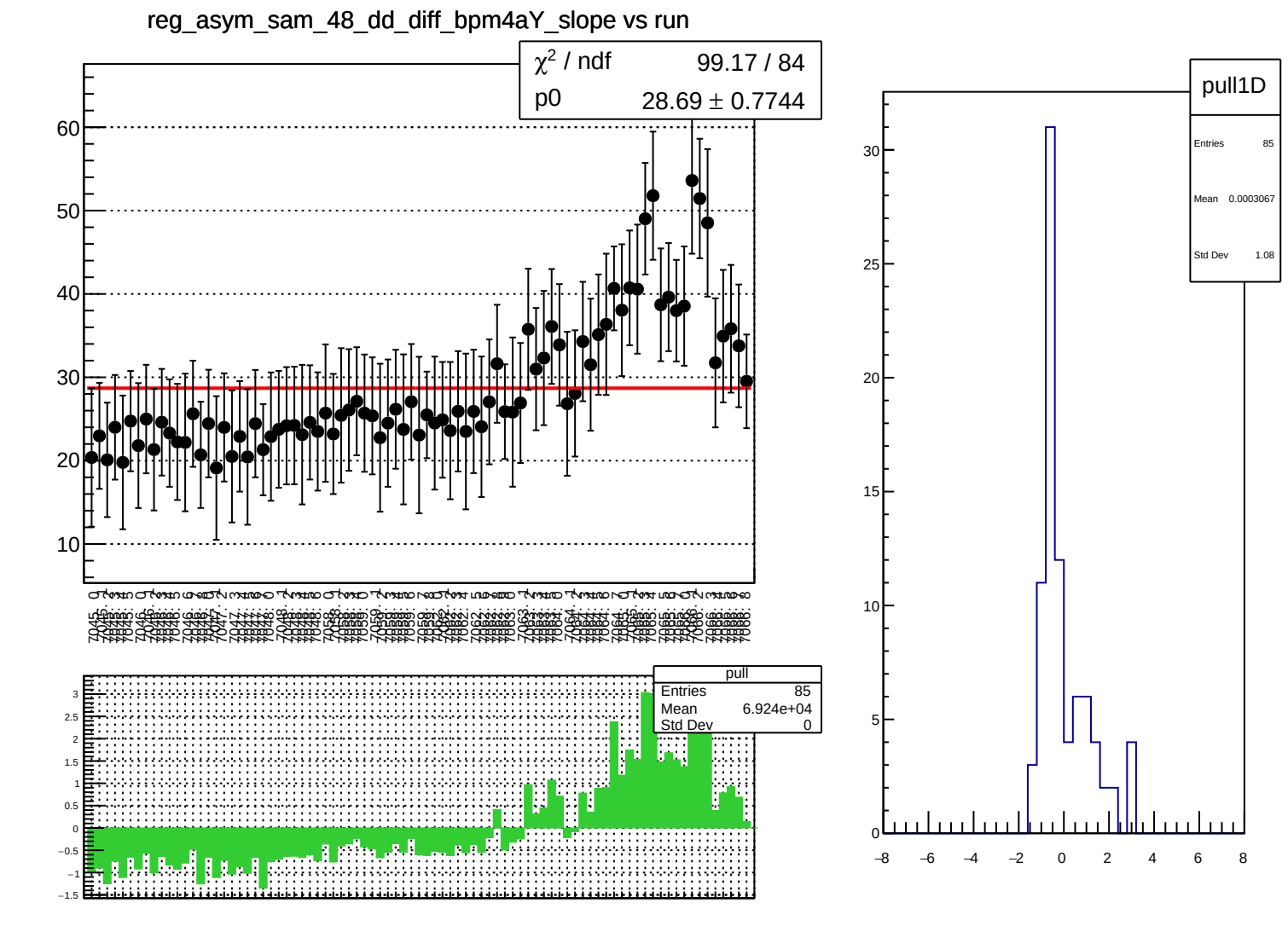

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 427.1 / 84
p0 −69.57 ± 1.294
pull
Entries 85
Mean −299.8
Std Dev 0
pull1D
Entries 85
Mean −0.1224
Std Dev 2.238

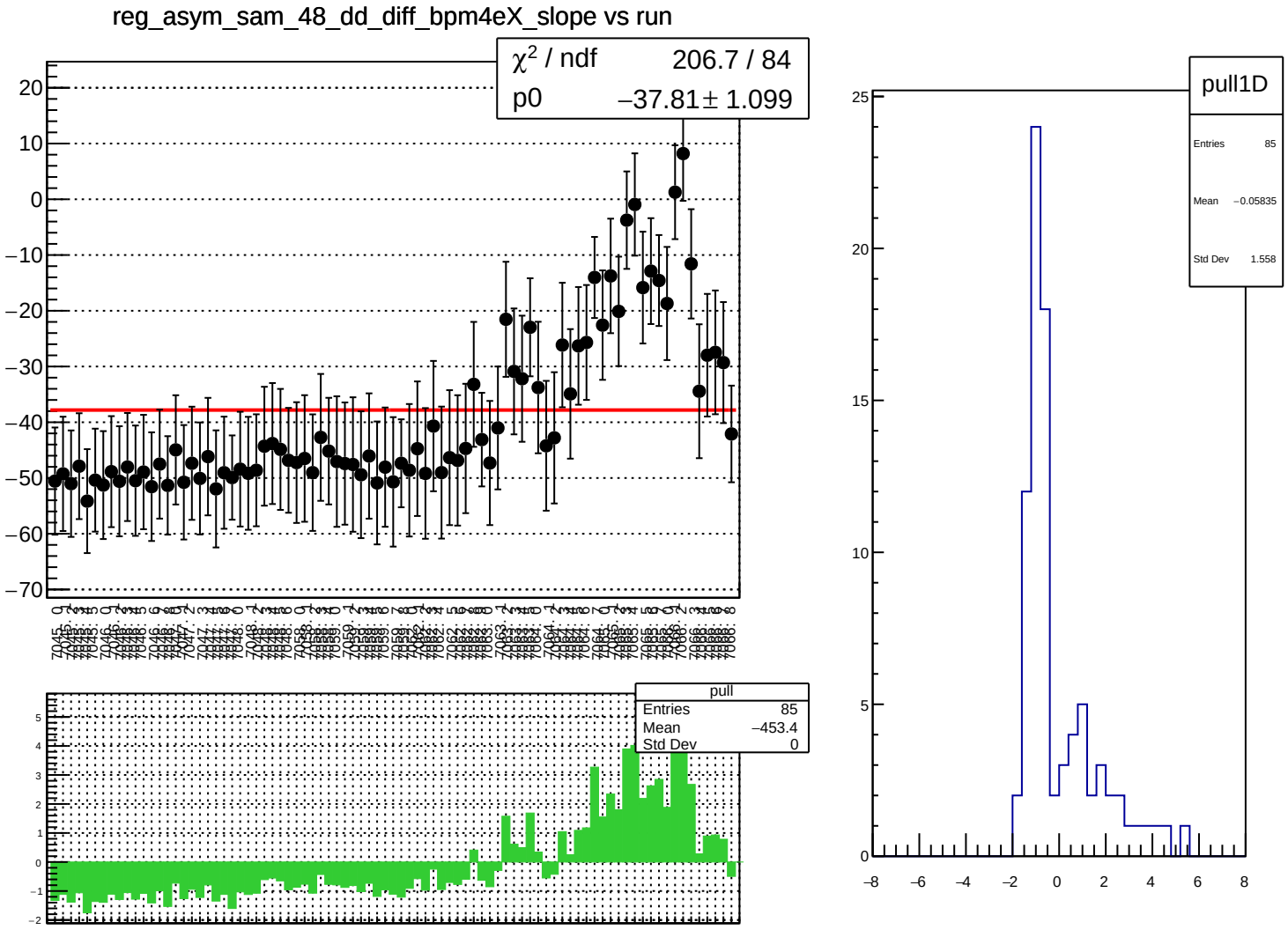

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 151.5 / 84
p0 127.7 ± 0.9692
150
140
130
120
110
100
90
80
pull
Entries 85
Mean −2005
Std Dev 0
1
0
−1
−2
−3
−4

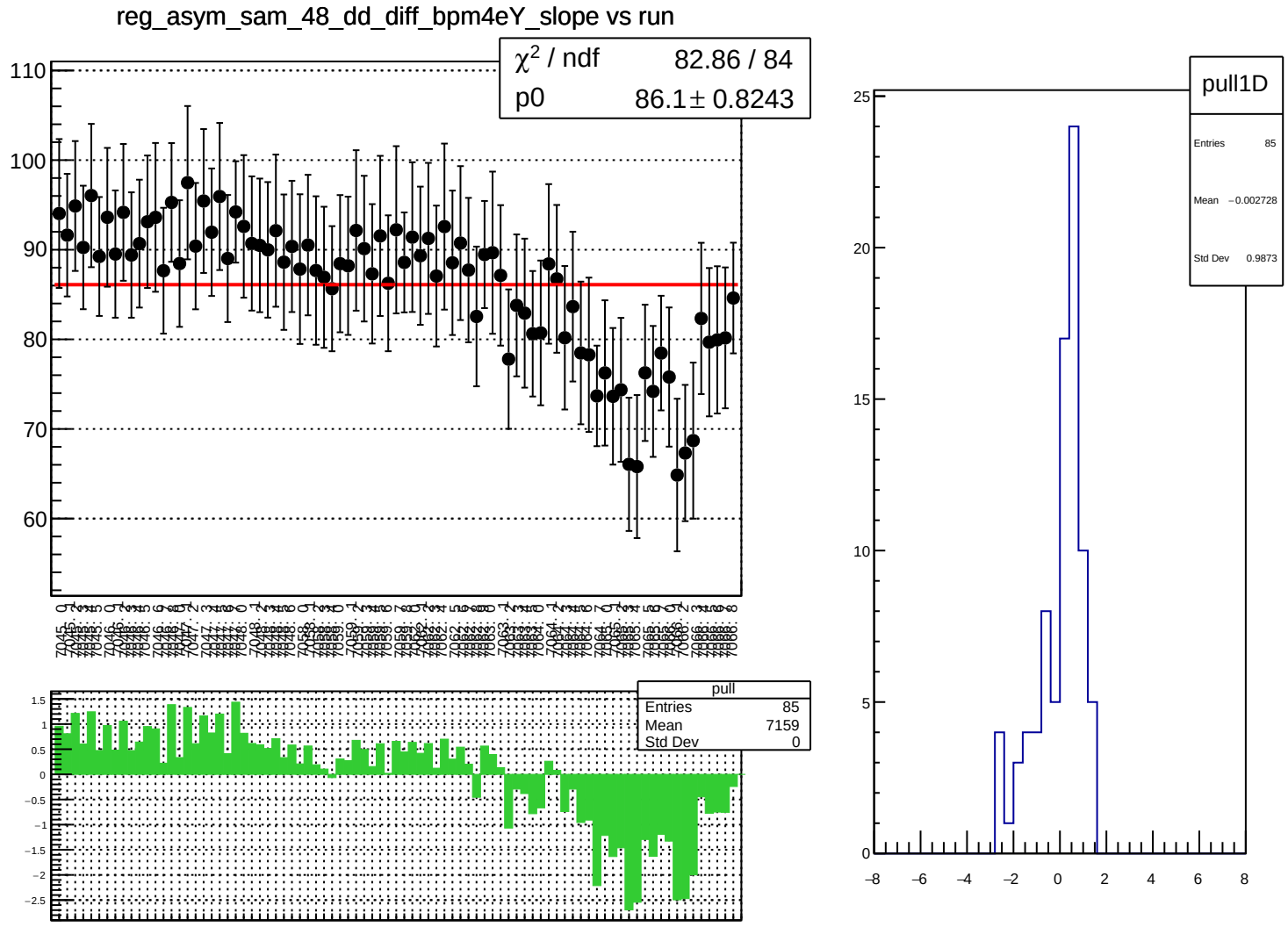

pull1D
Entries 85
Mean 0.01256
Std Dev 1.335
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

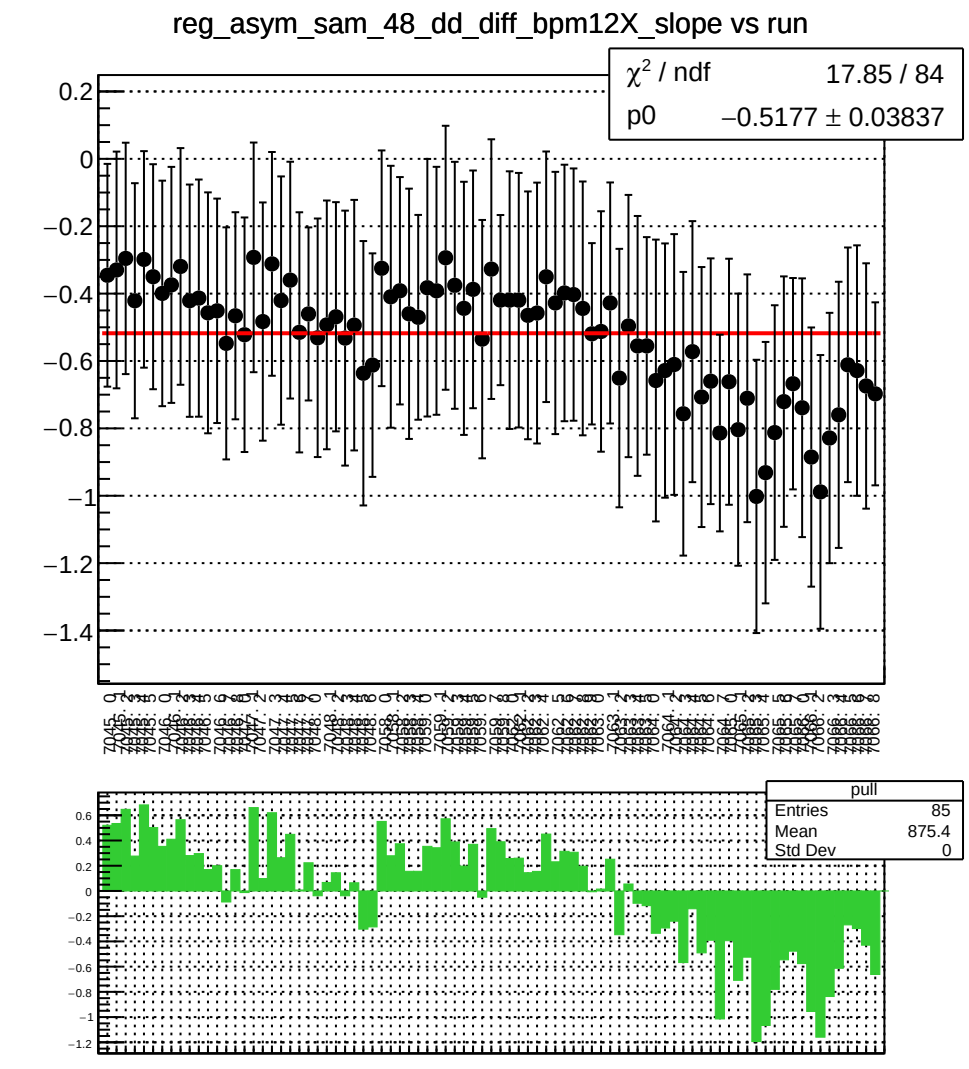

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 24.24 / 84
p0 −0.319 ± 0.04517
pull
Entries 85
Mean 2067
Std Dev 0
pull1D
Entries 85
Mean −0.004759
Std Dev 0.534

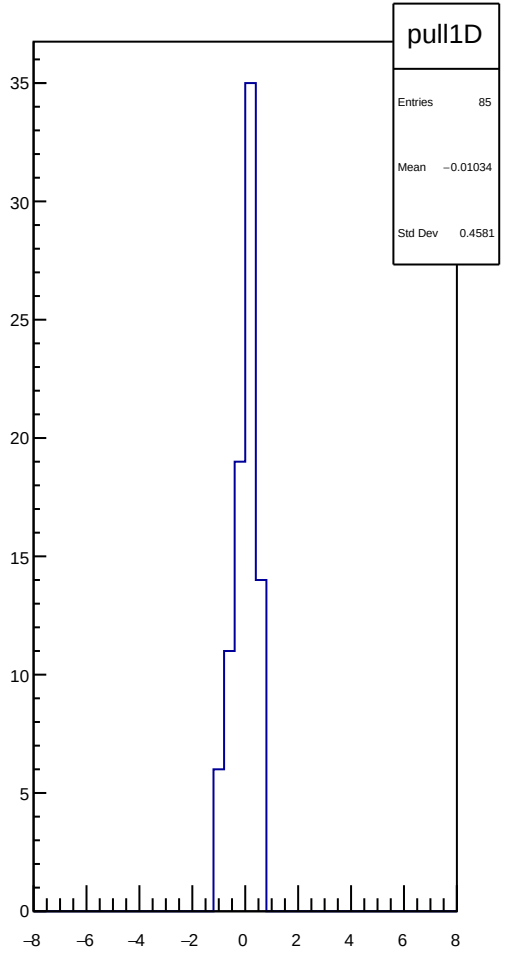

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 244.5 / 84
p0 −43.78 ± 1.155
−20
−40
−60
−80
−100
pull
Entries 85
Mean −321.7
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 85
Mean 0.08325
Std Dev 1.694
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

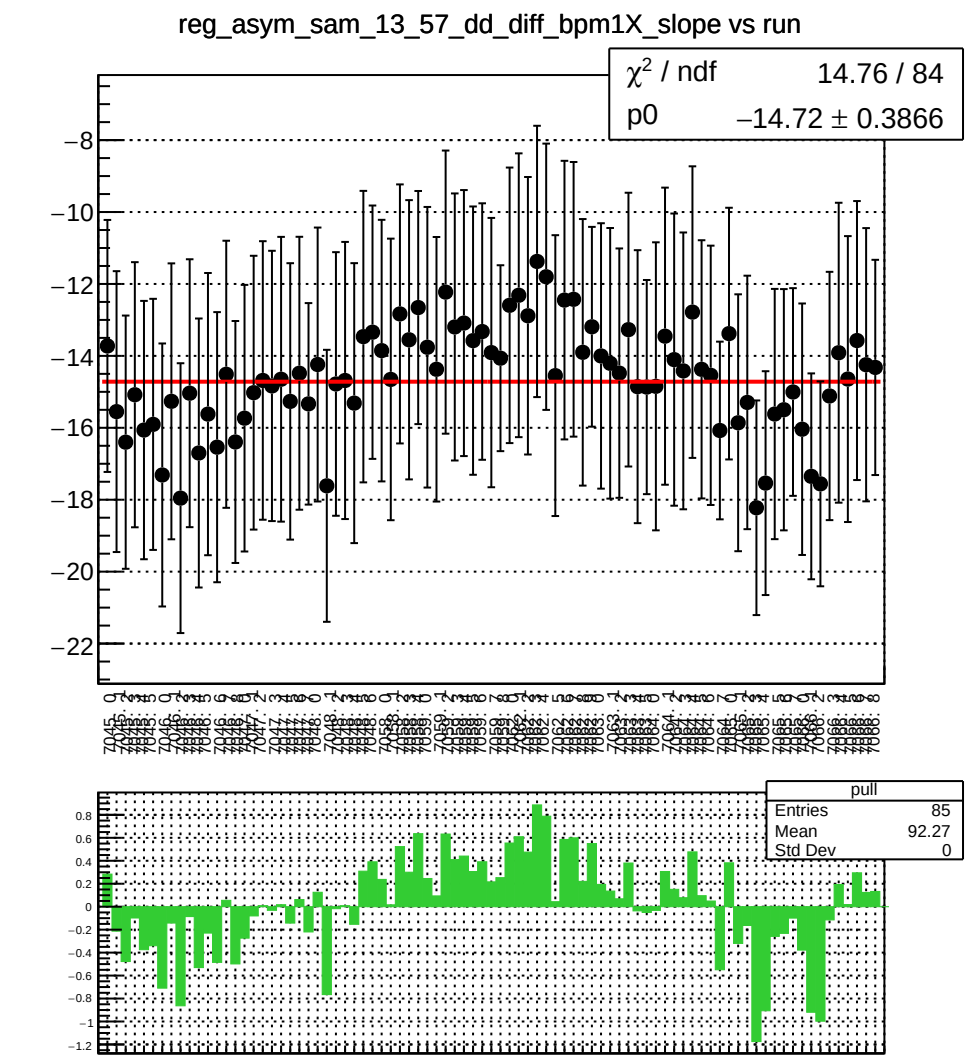

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.17 / 84
p0 28.69 ± 0.7744
pull
Entries 85
Mean 6.924e+04
Std Dev 0
pull1D
Entries 85
Mean 0.0003067
Std Dev 1.08

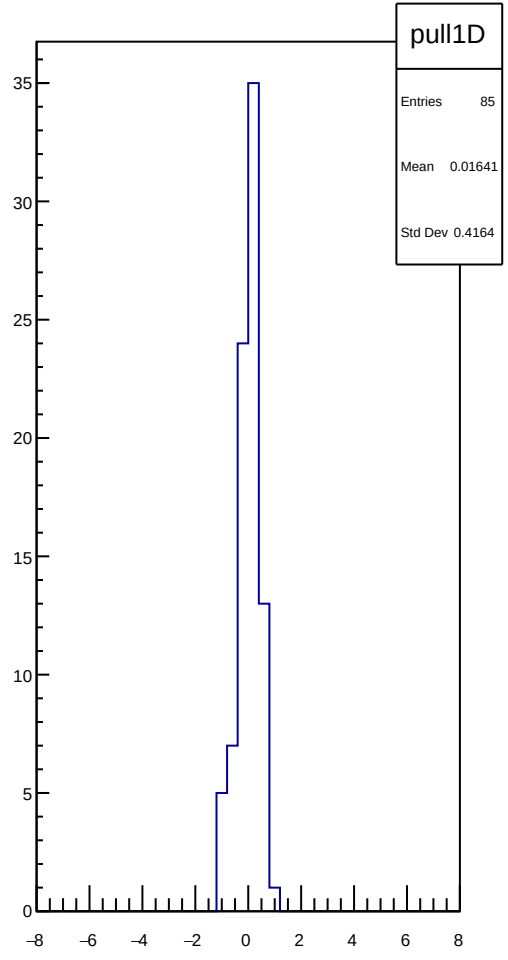

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 206.7 / 84
p0 −37.81 ± 1.099
pull
Entries 85
Mean −453.4
Std Dev 0
pull1D
Entries 85
Mean −0.05835
Std Dev 1.558

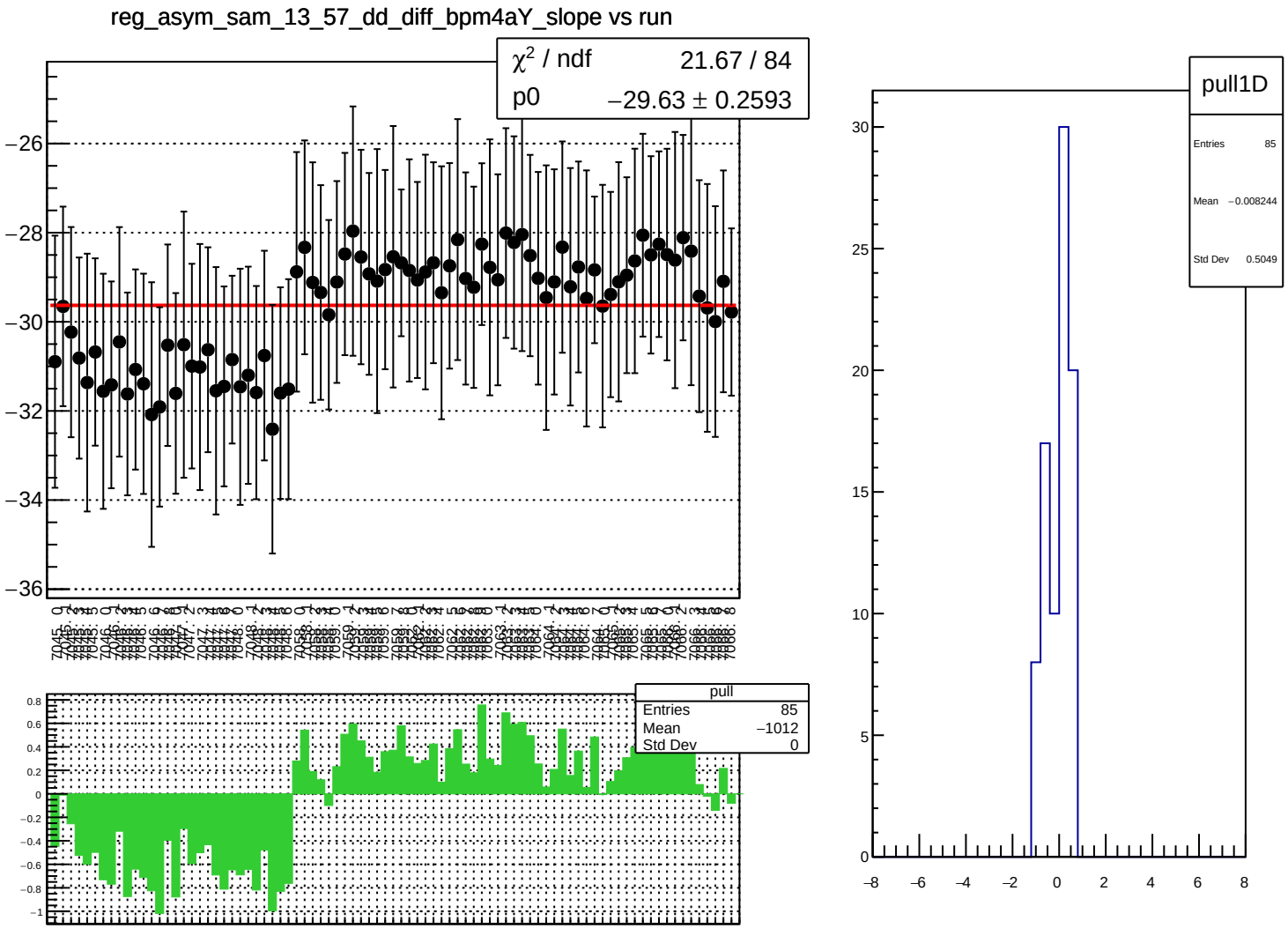

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.86 / 84
p0 86.1 ± 0.8243
pull
Entries 85
Mean 7159
Std Dev 0
pull1D
Entries 85
Mean −0.002728
Std Dev 0.9873

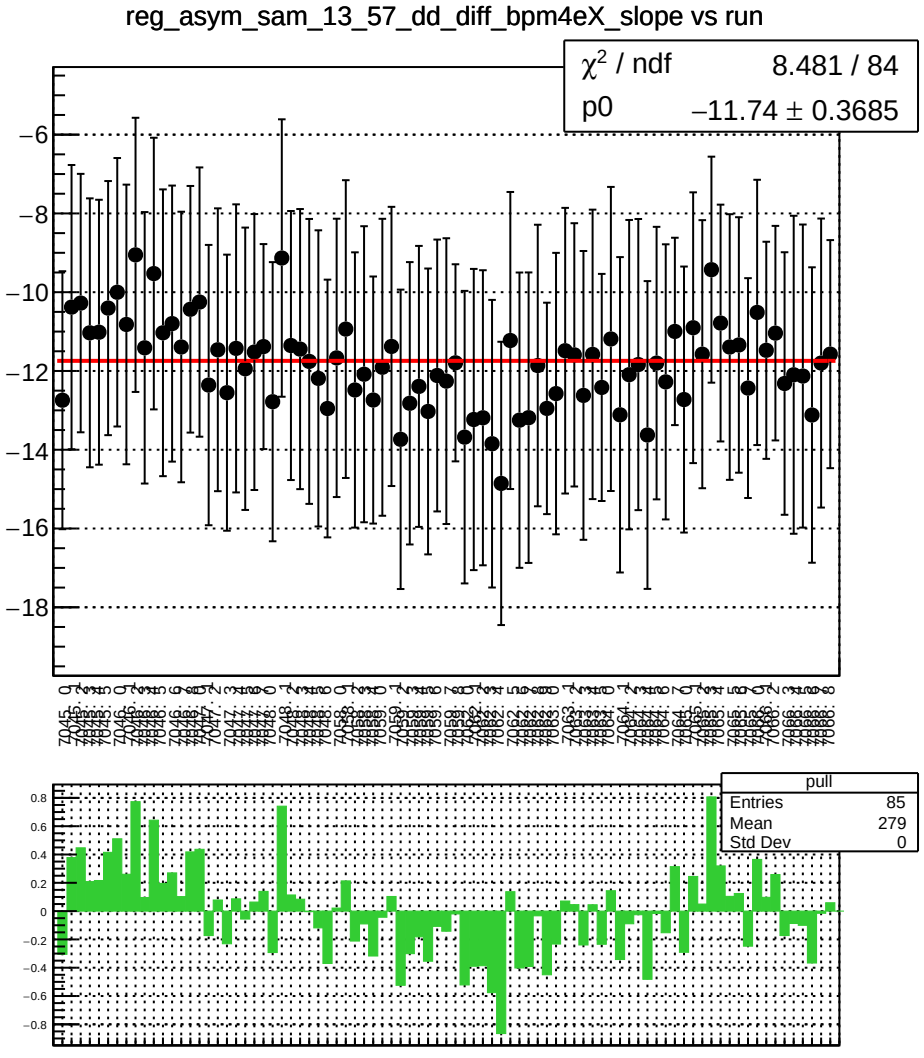

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.85 / 84
p0 −0.5177 ± 0.03837
pull
Entries 85
Mean 875.4
Std Dev 0

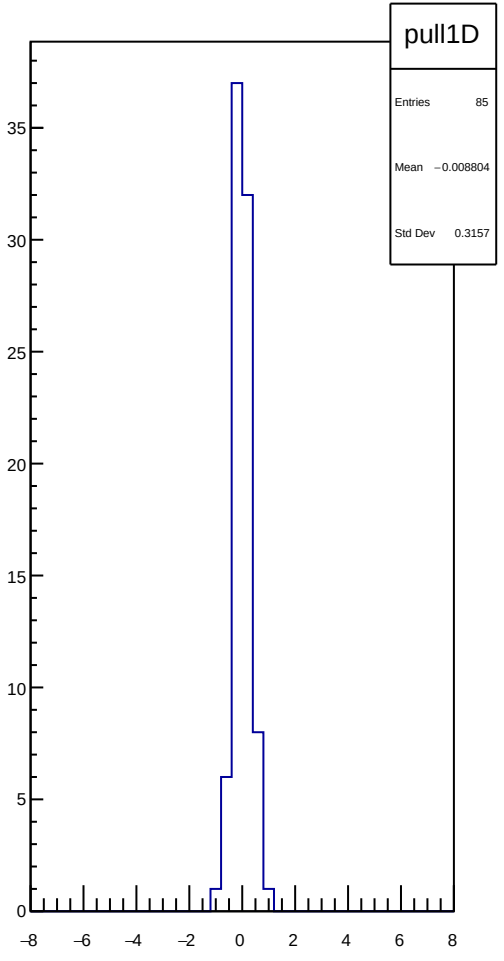

pull1D
Entries 85
Mean −0.01034
Std Dev 0.4581

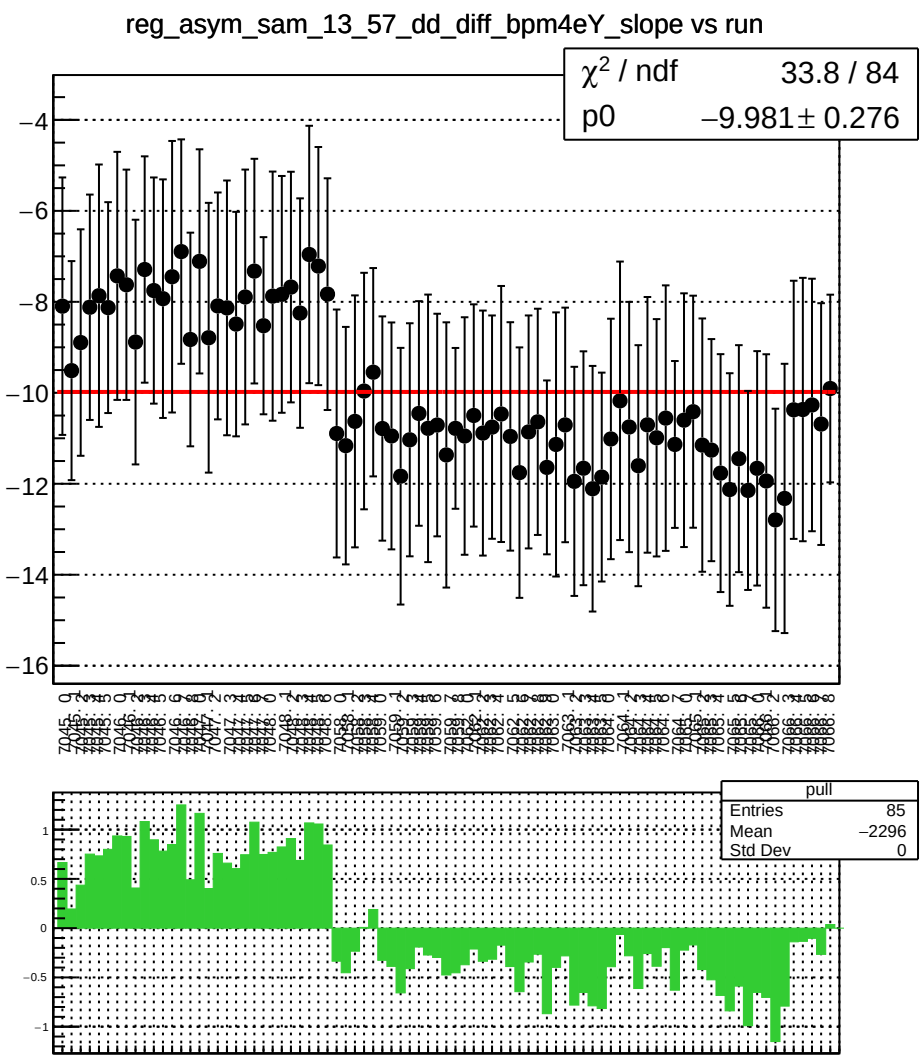

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 14.76 / 84
p0 −14.72 ± 0.3866
pull
Entries 85
Mean 92.27
Std Dev 0

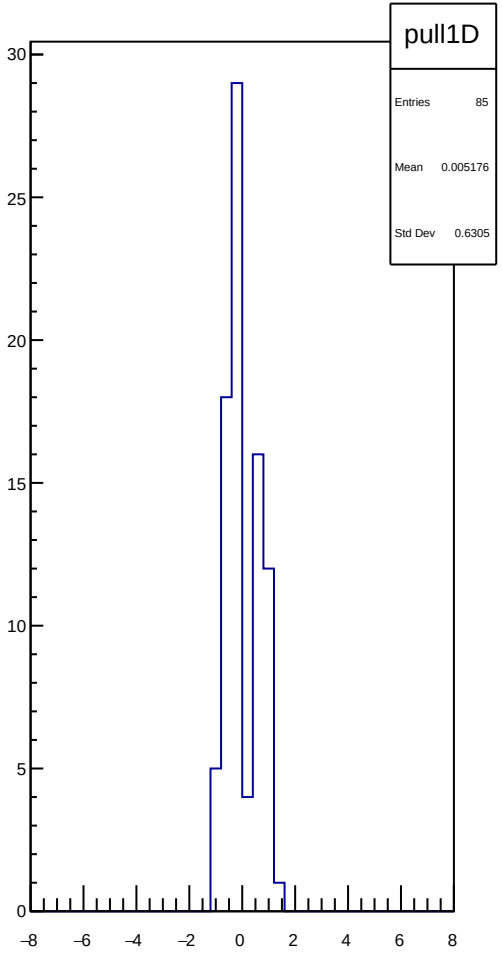

pull1D
Entries 85
Mean 0.01641
Std Dev 0.4164

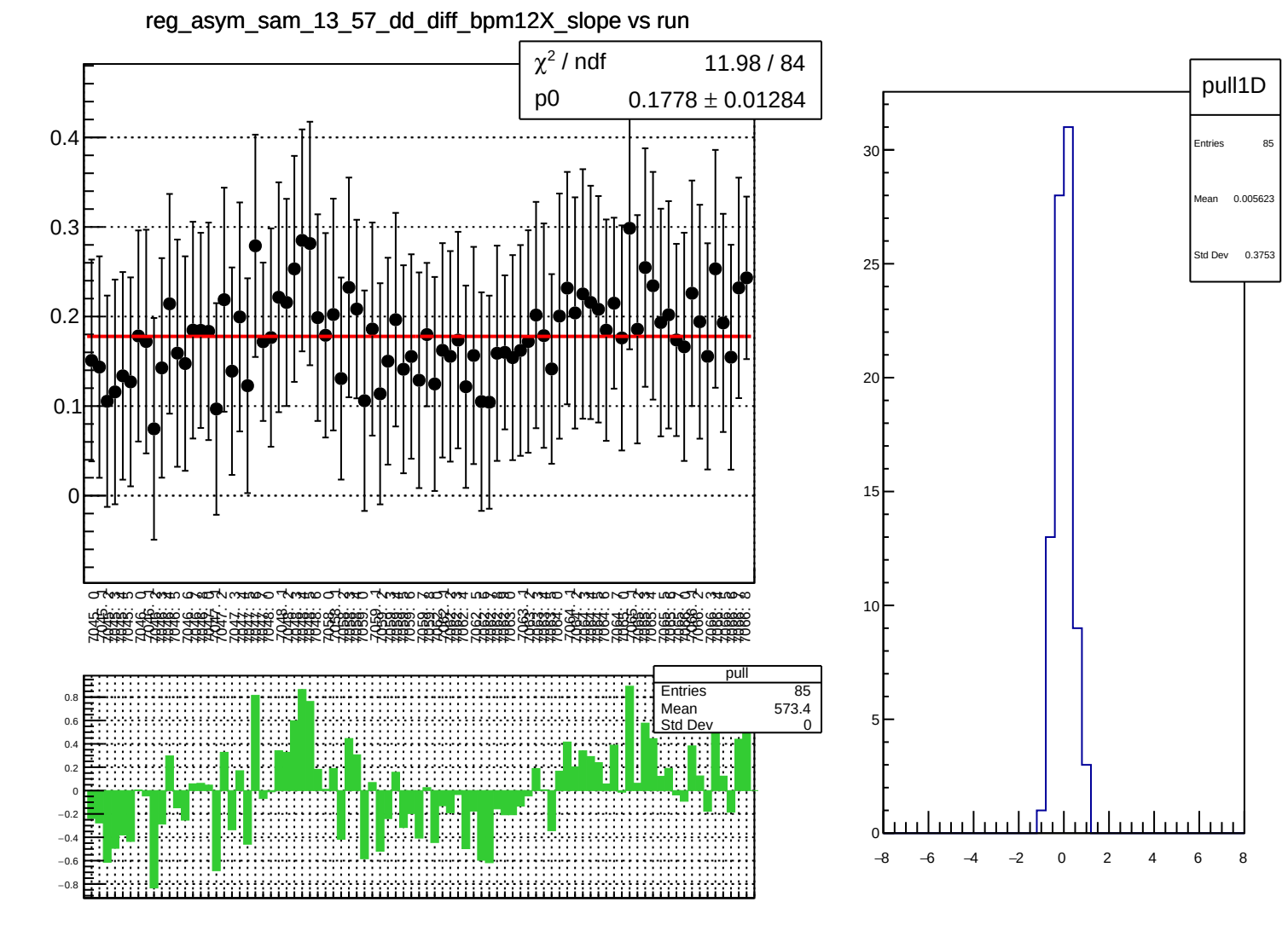

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.67 / 84
p0 −29.63 ± 0.2593
pull
Entries 85
Mean −1012
Std Dev 0
pull1D
Entries 85
Mean −0.008244
Std Dev 0.5049

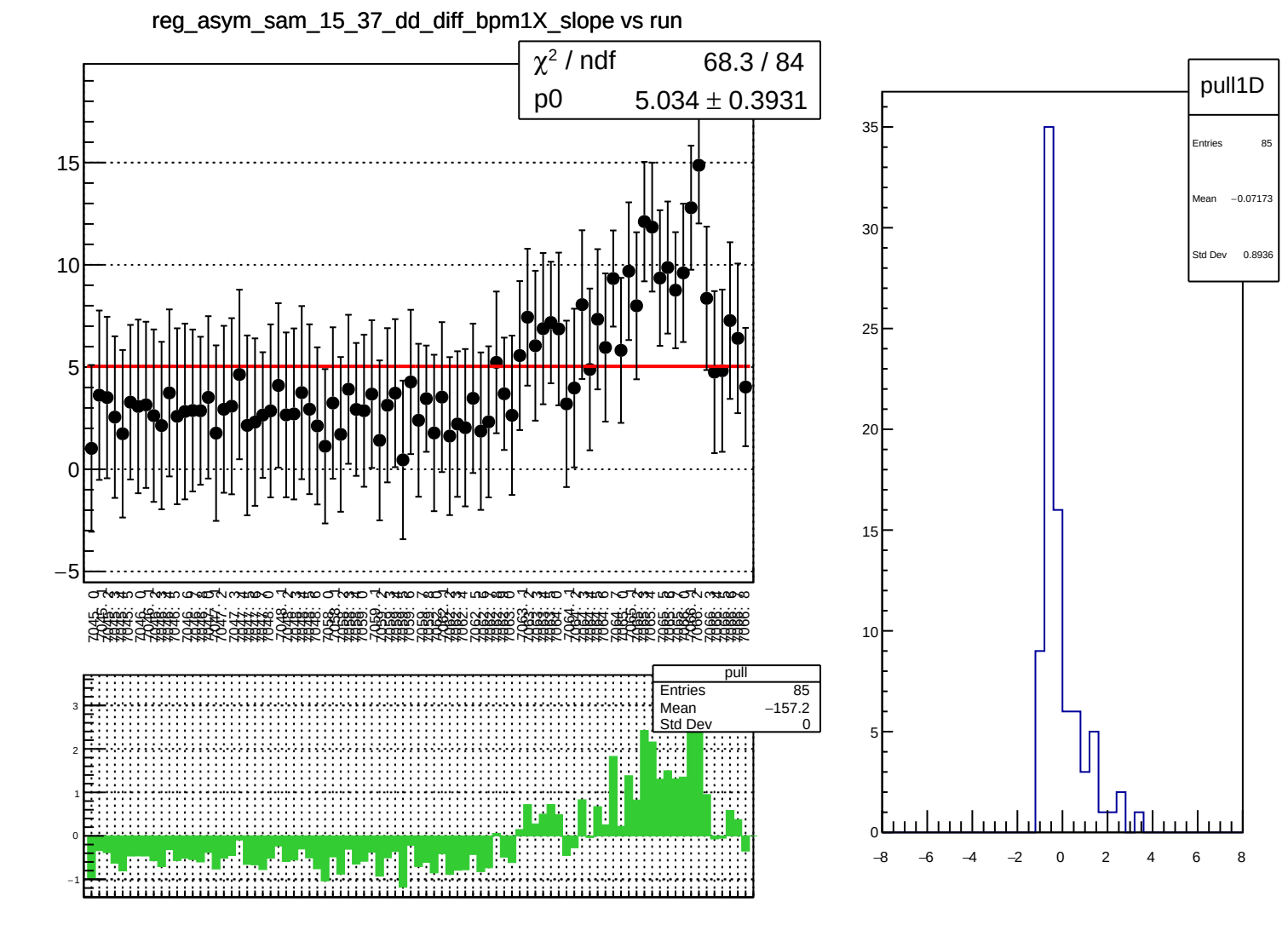

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.481 / 84
p0 −11.74 ± 0.3685
pull
Entries 85
Mean 279
Std Dev 0

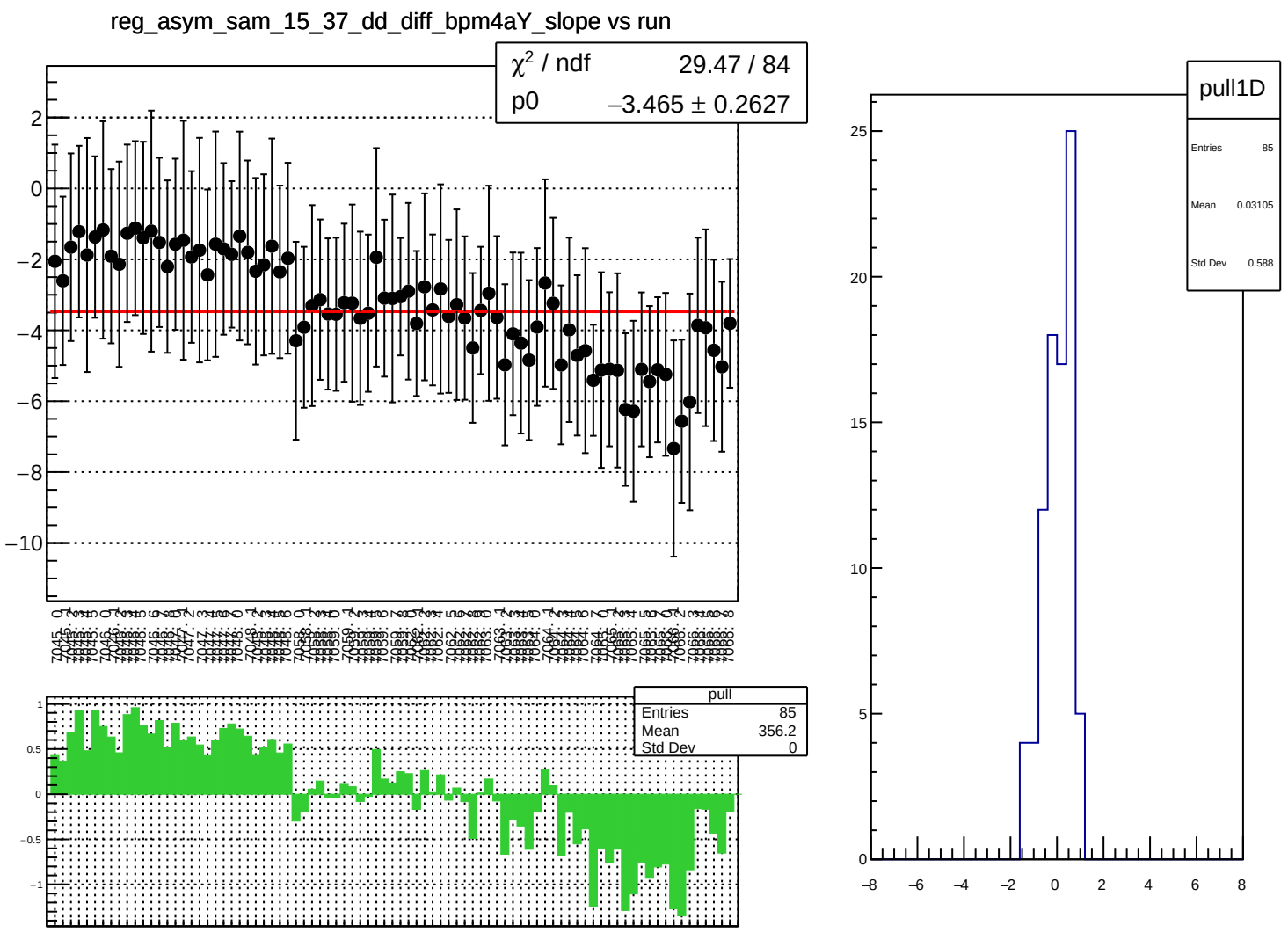

pull1D
Entries 85
Mean −0.008804
Std Dev 0.3157

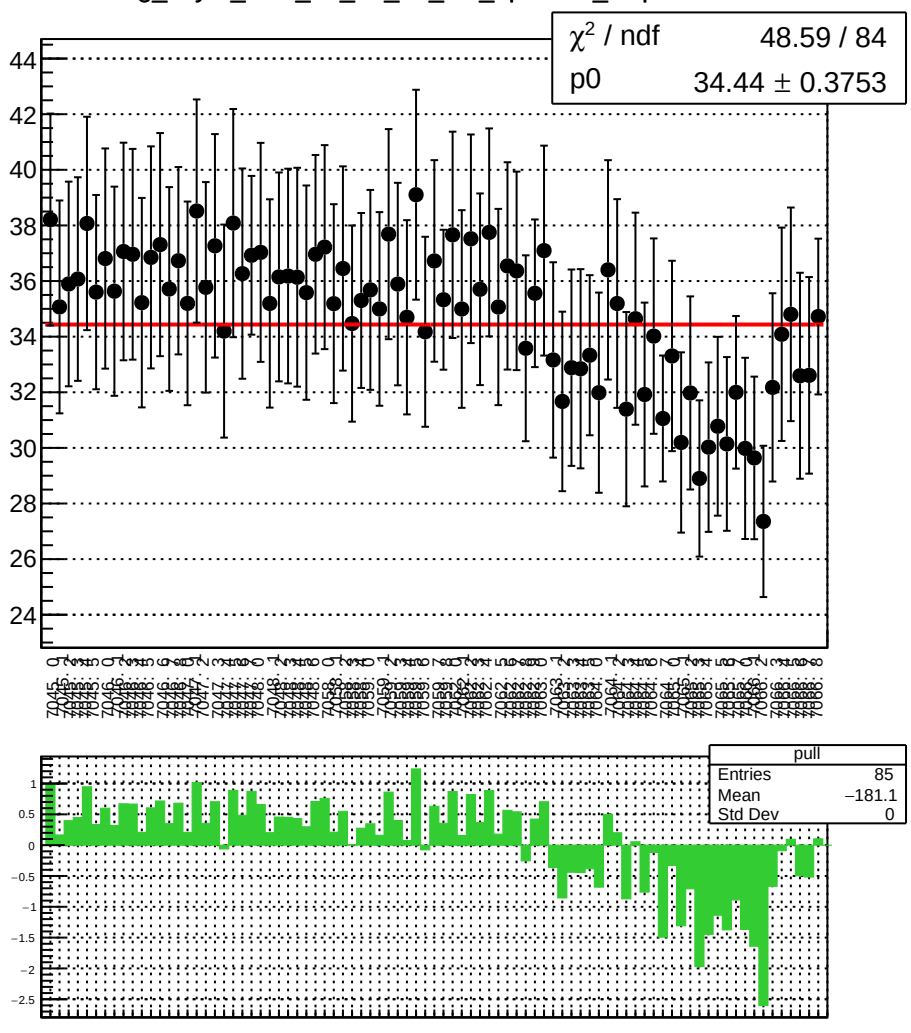

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.8 / 84
p0 −9.981 ± 0.276
pull
Entries 85
Mean −2296
Std Dev 0

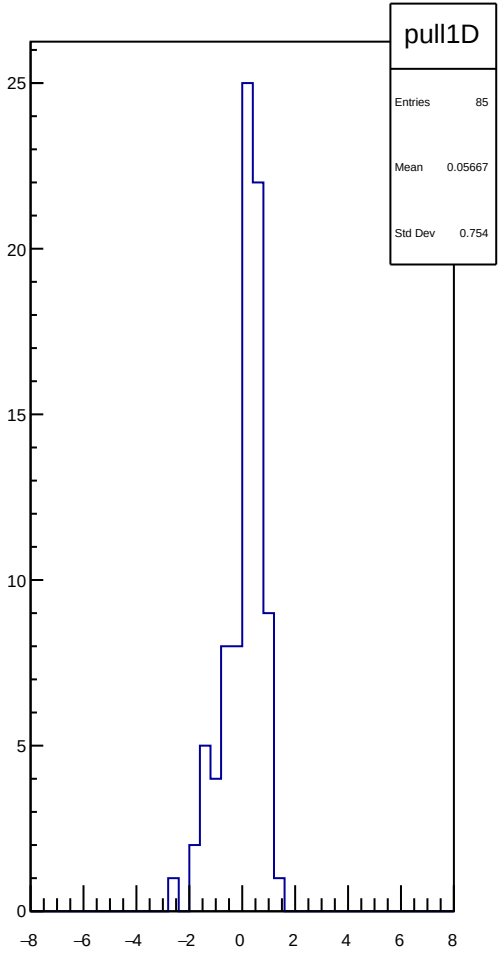

pull1D
Entries 85
Mean 0.005176
Std Dev 0.6305

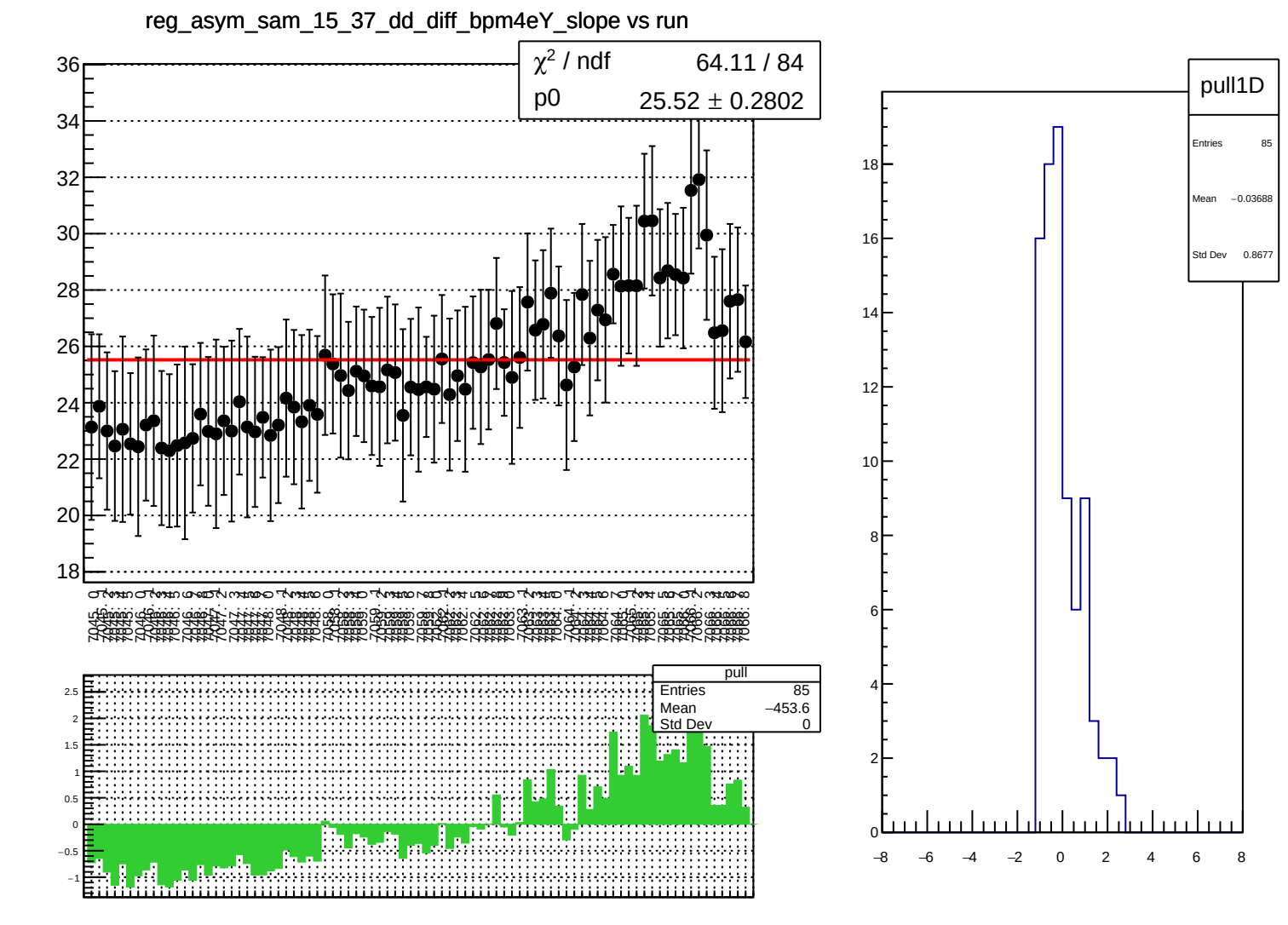

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 11.98 / 84
p0 0.1778 ± 0.01284
0.4
0.3
0.2
0.1
0
pull
Entries 85
Mean 573.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean 0.005623
Std Dev 0.3753
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

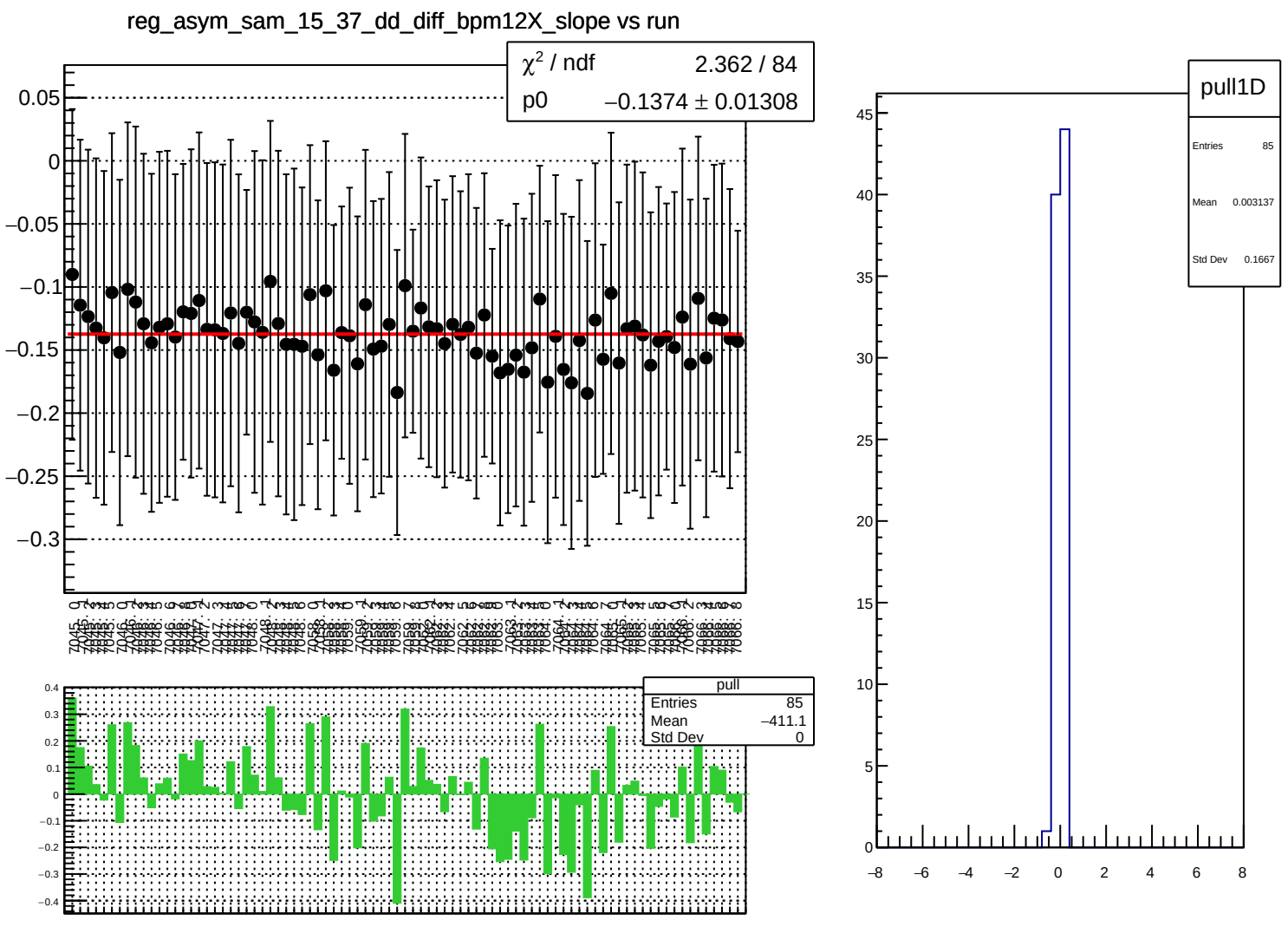

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 68.3 / 84
p0 5.034 ± 0.3931
pull
Entries 85
Mean −157.2
Std Dev 0
pull1D
Entries 85
Mean −0.07173
Std Dev 0.8936

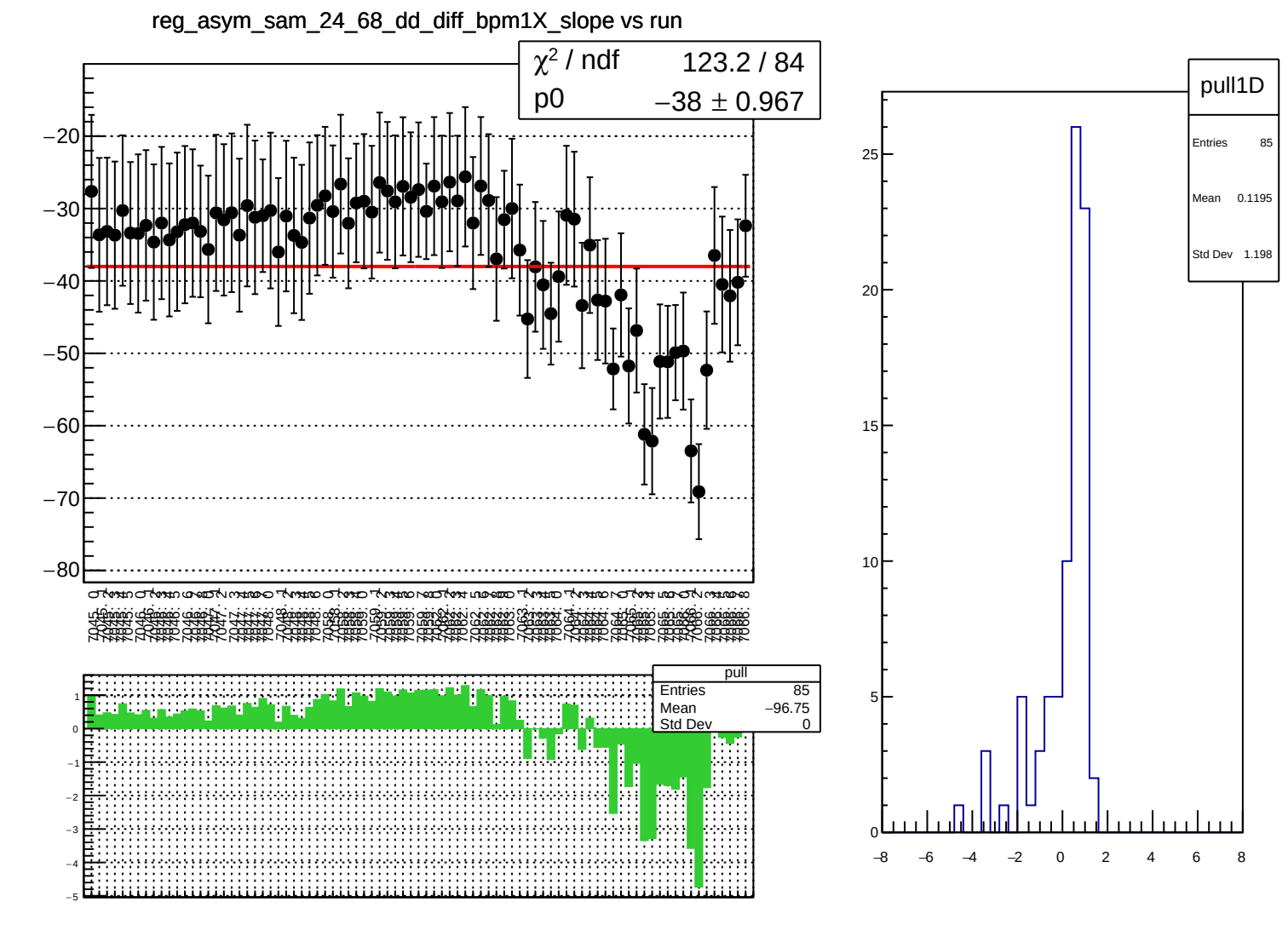

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.47 / 84
p0 −3.465 ± 0.2627
pull
Entries 85
Mean −356.2
Std Dev 0
pull1D
Entries 85
Mean 0.03105
Std Dev 0.588

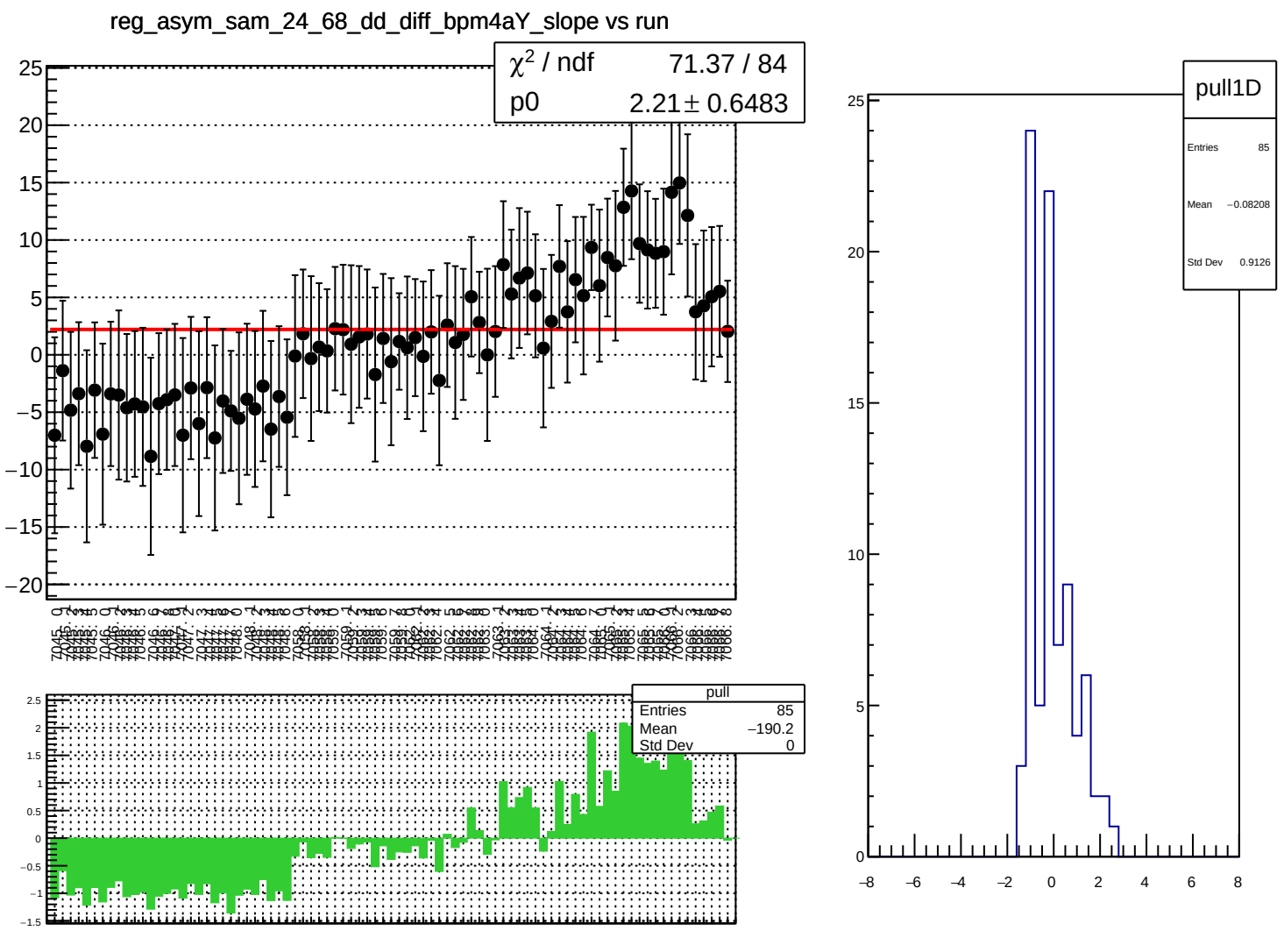

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.59 / 84
p0 34.44 ± 0.3753
pull
Entries 85
Mean −181.1
Std Dev 0

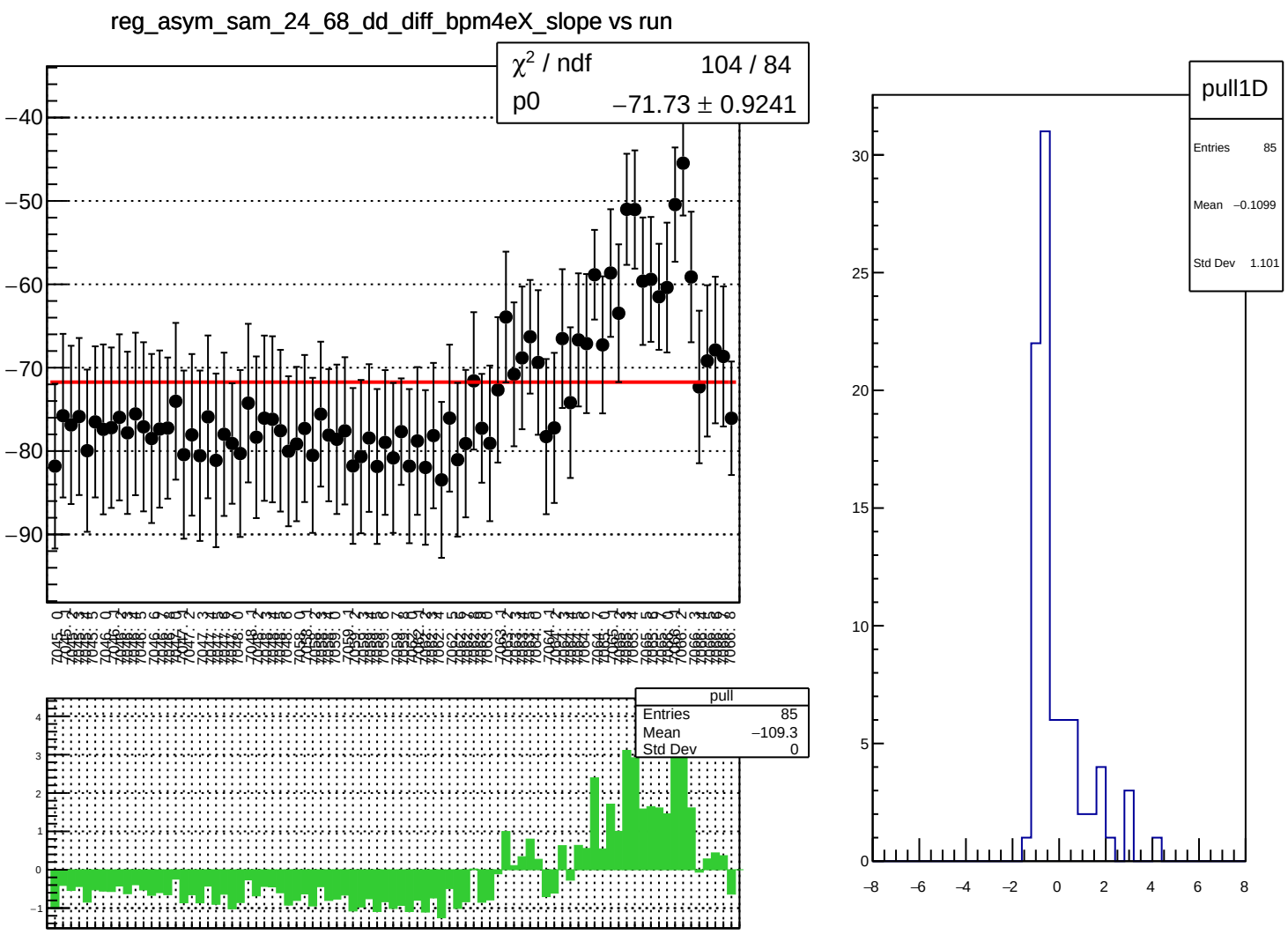

pull1D
Entries 85
Mean 0.05667
Std Dev 0.754

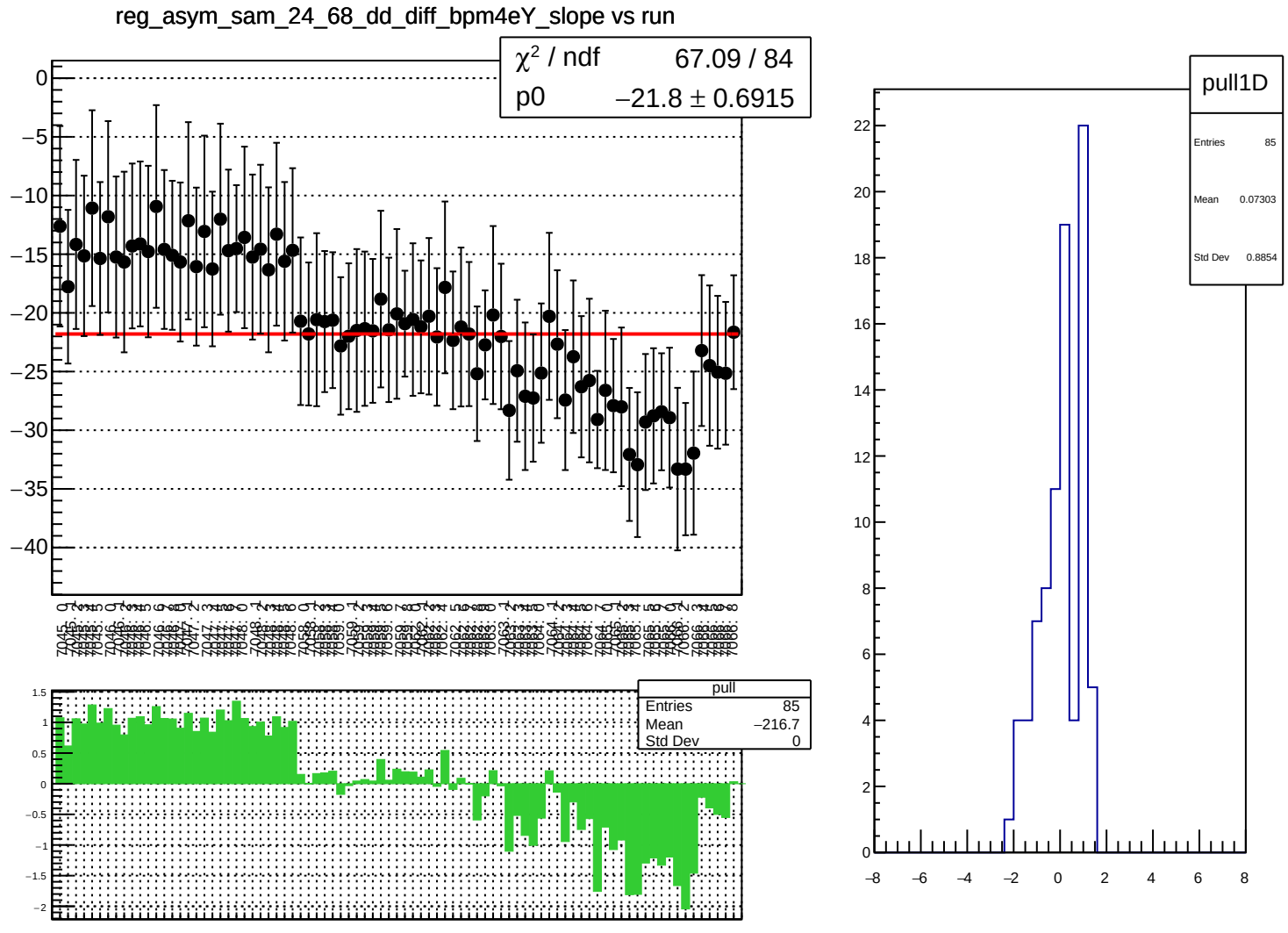

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.11 / 84
p0 25.52 ± 0.2802
pull
Entries 85
Mean −453.6
Std Dev 0
pull1D
Entries 85
Mean −0.03688
Std Dev 0.8677

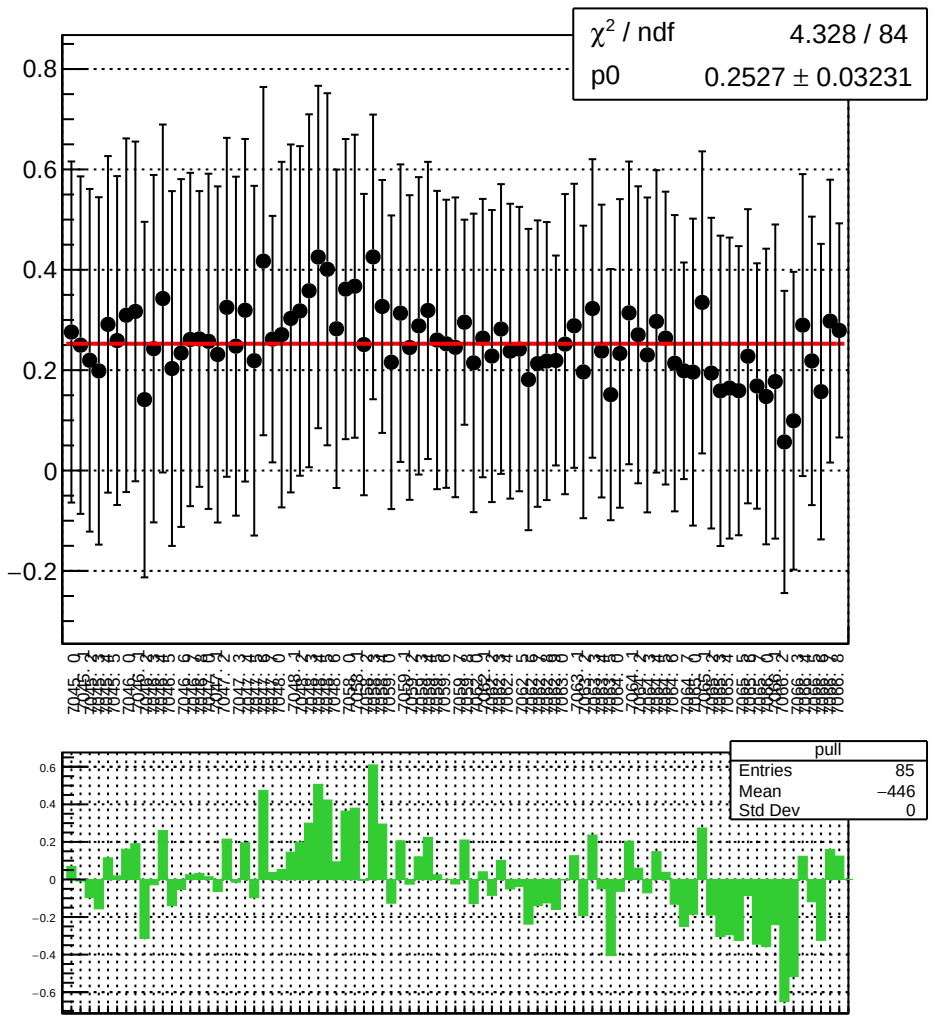

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.362 / 84
p0 −0.1374 ± 0.01308
pull
Entries 85
Mean −411.1
Std Dev 0
pull1D
Entries 85
Mean 0.003137
Std Dev 0.1667

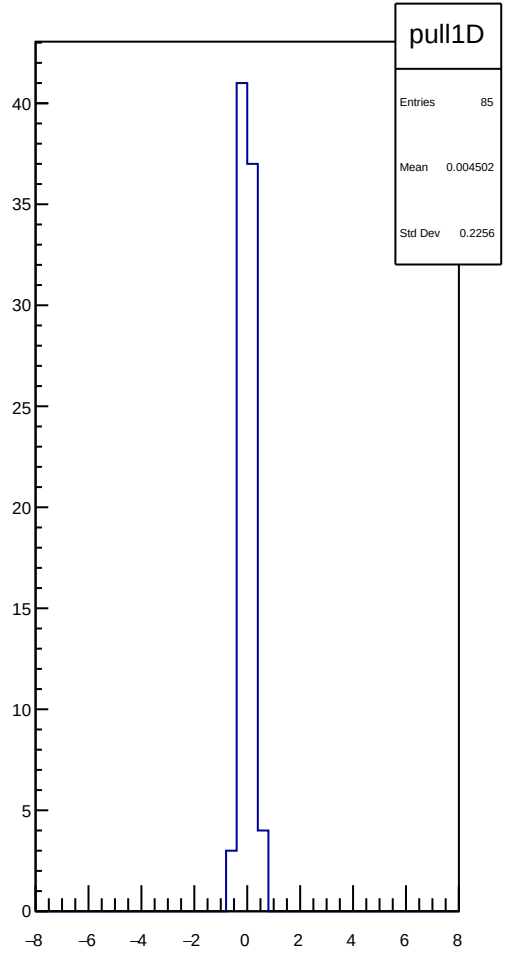

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 123.2 / 84
p0 −38 ± 0.967
pull
Entries 85
Mean −96.75
Std Dev 0
pull1D
Entries 85
Mean 0.1195
Std Dev 1.198

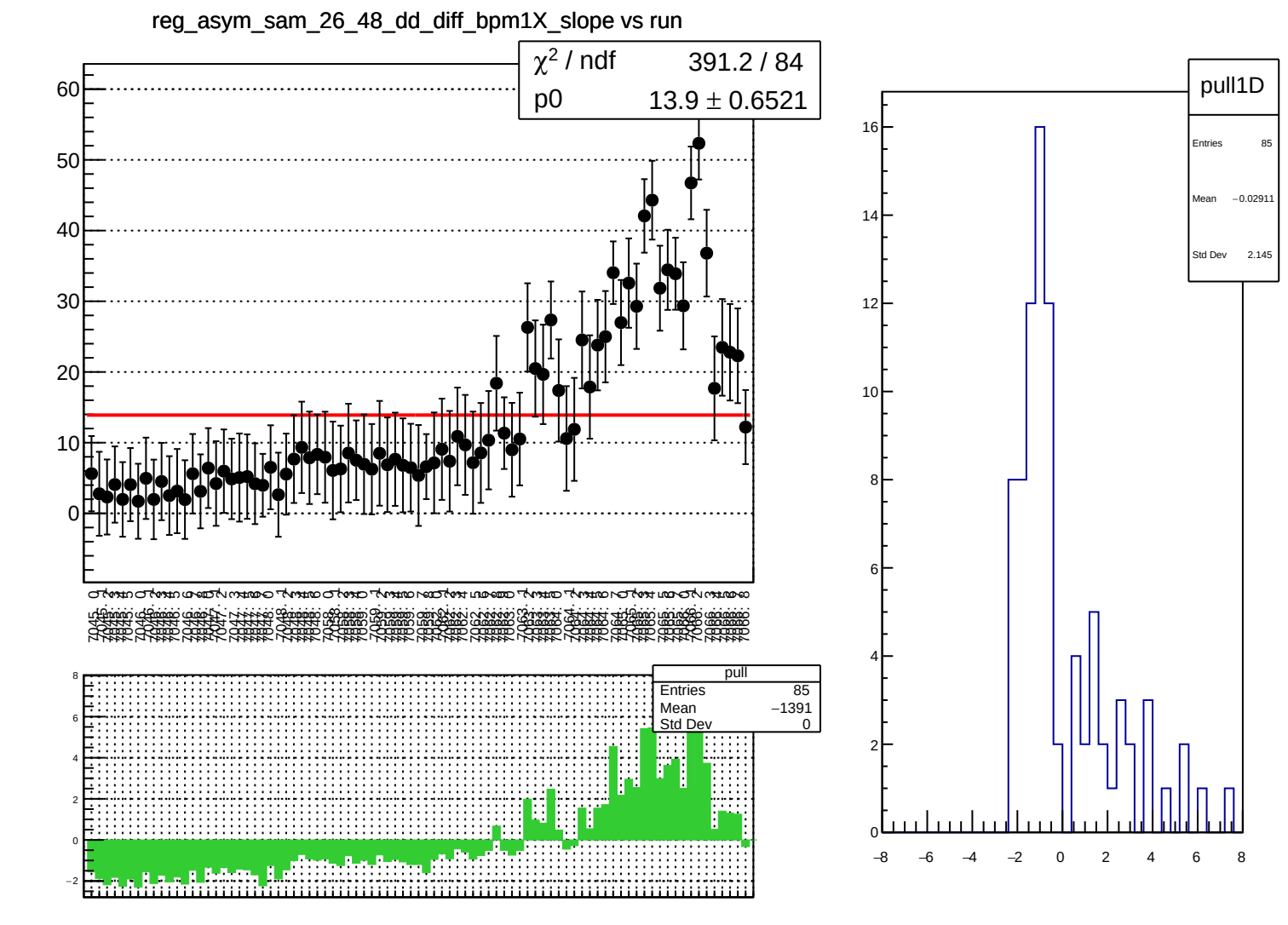

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.37 / 84
p0 2.21 ± 0.6483
pull
Entries 85
Mean −190.2
Std Dev 0
pull1D
Entries 85
Mean −0.08208
Std Dev 0.9126

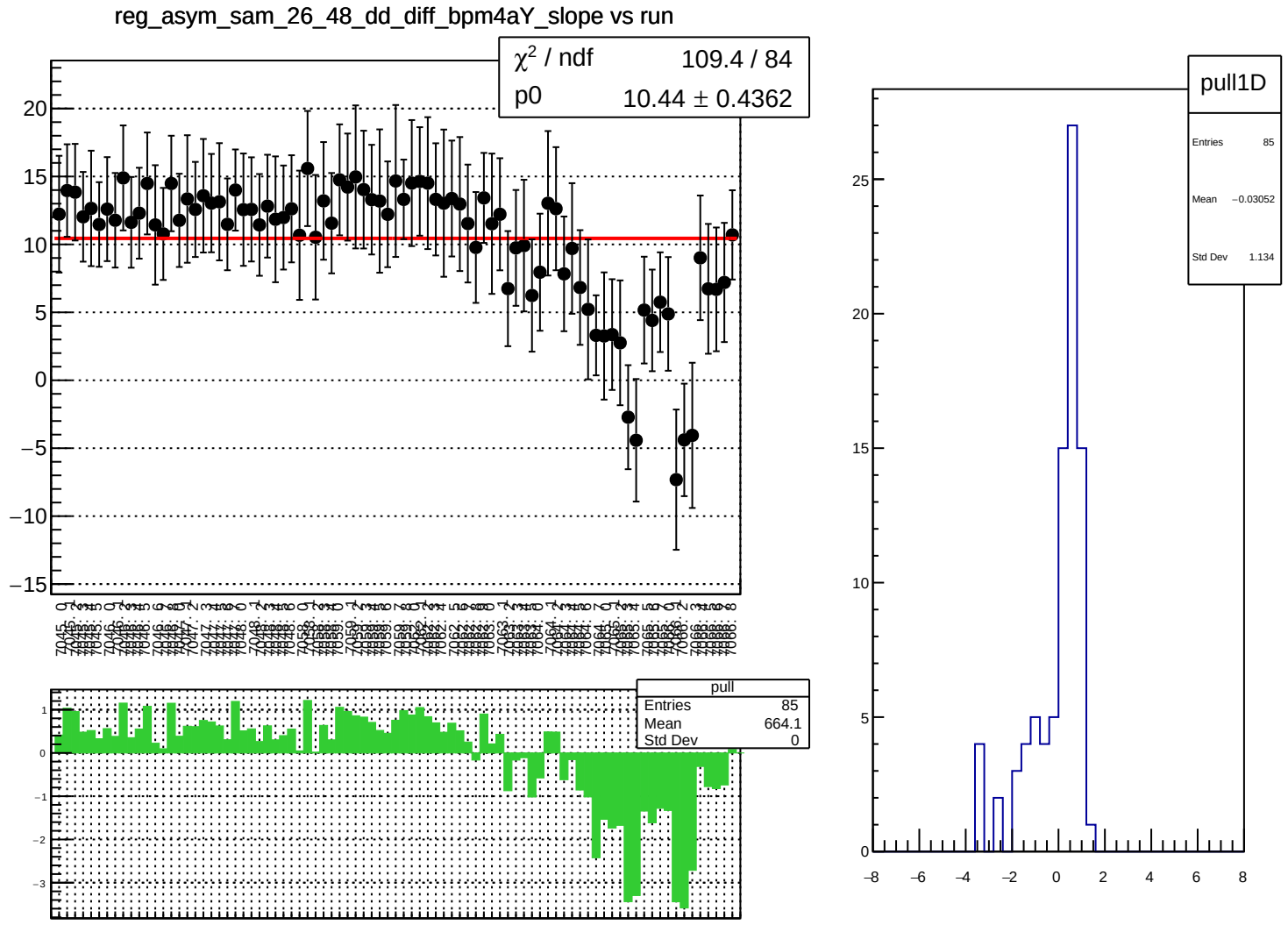

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 104 / 84
p0 −71.73 ± 0.9241
−40
−50
−60
−70
−80
−90
pull
Entries 85
Mean −109.3
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 85
Mean −0.1099
Std Dev 1.101
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

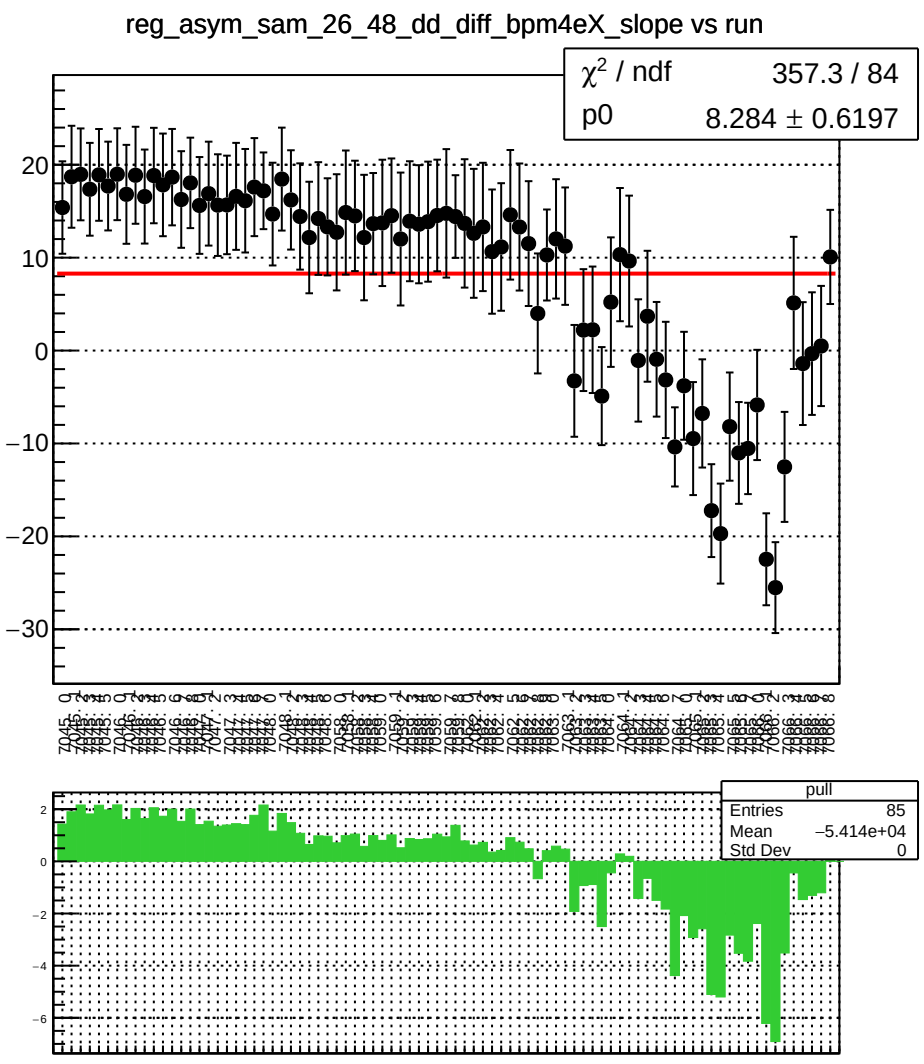

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.09 / 84
p0 −21.8 ± 0.6915
pull
Entries 85
Mean −216.7
Std Dev 0
pull1D
Entries 85
Mean 0.07303
Std Dev 0.8854

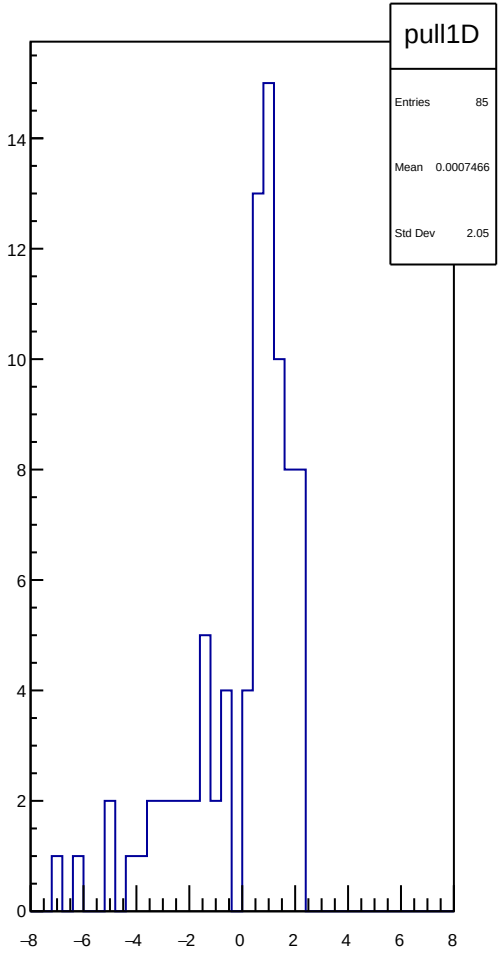

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 4.328 / 84
p0 0.2527 ± 0.03231
pull
Entries 85
Mean −446
Std Dev 0

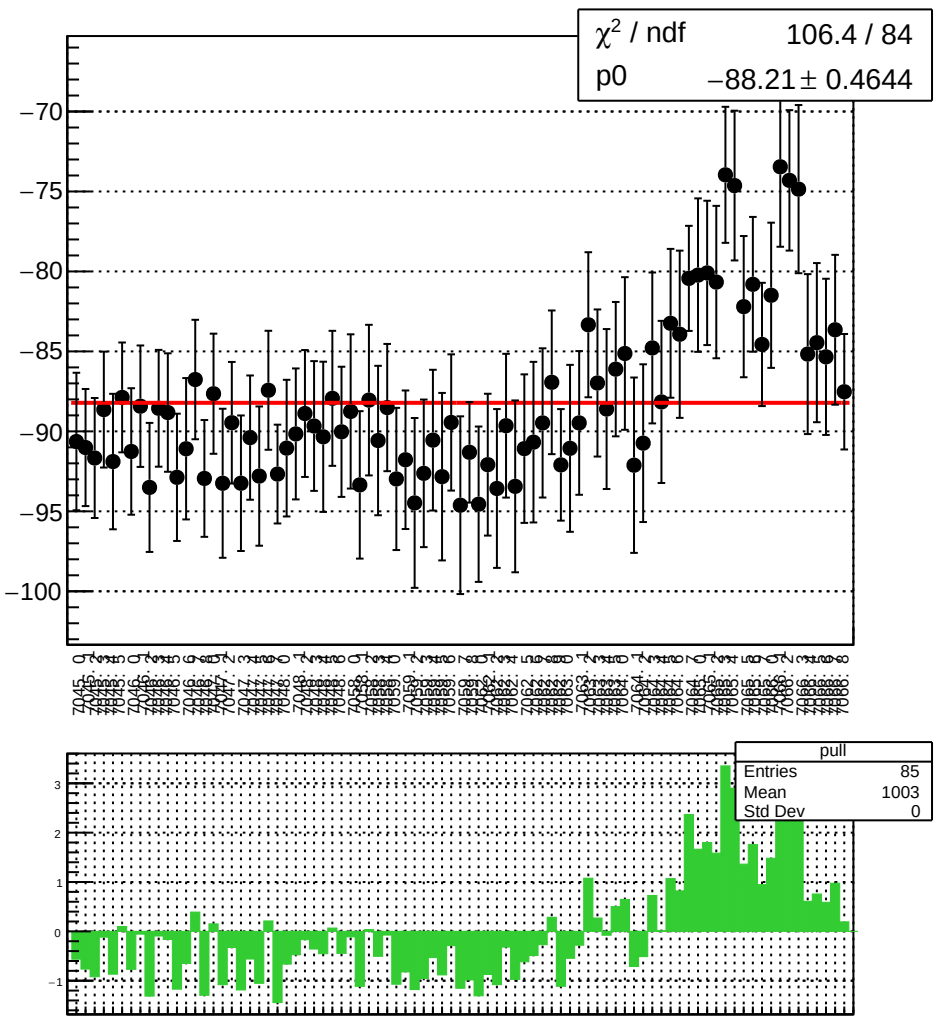

pull1D
Entries 85
Mean 0.004502
Std Dev 0.2256

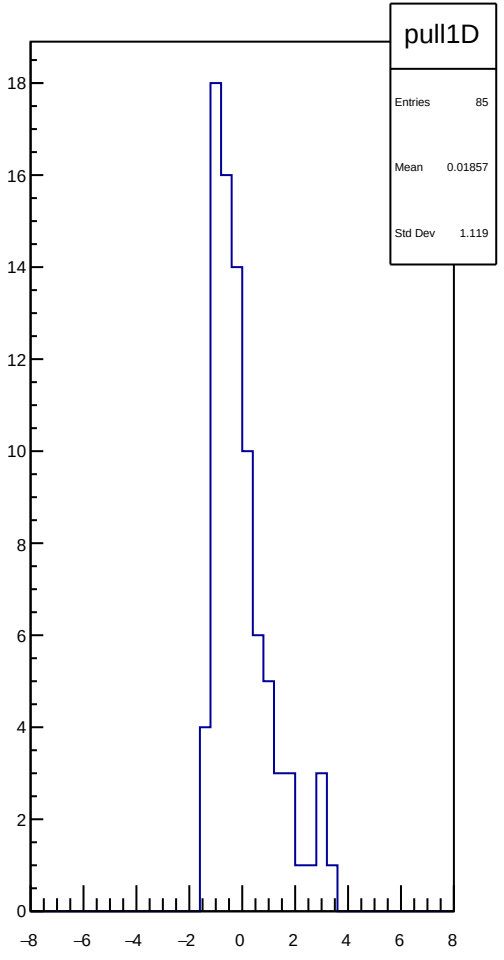

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 391.2 / 84
p0 13.9 ± 0.6521
pull
Entries 85
Mean −1391
Std Dev 0
pull1D
Entries 85
Mean −0.02911
Std Dev 2.145

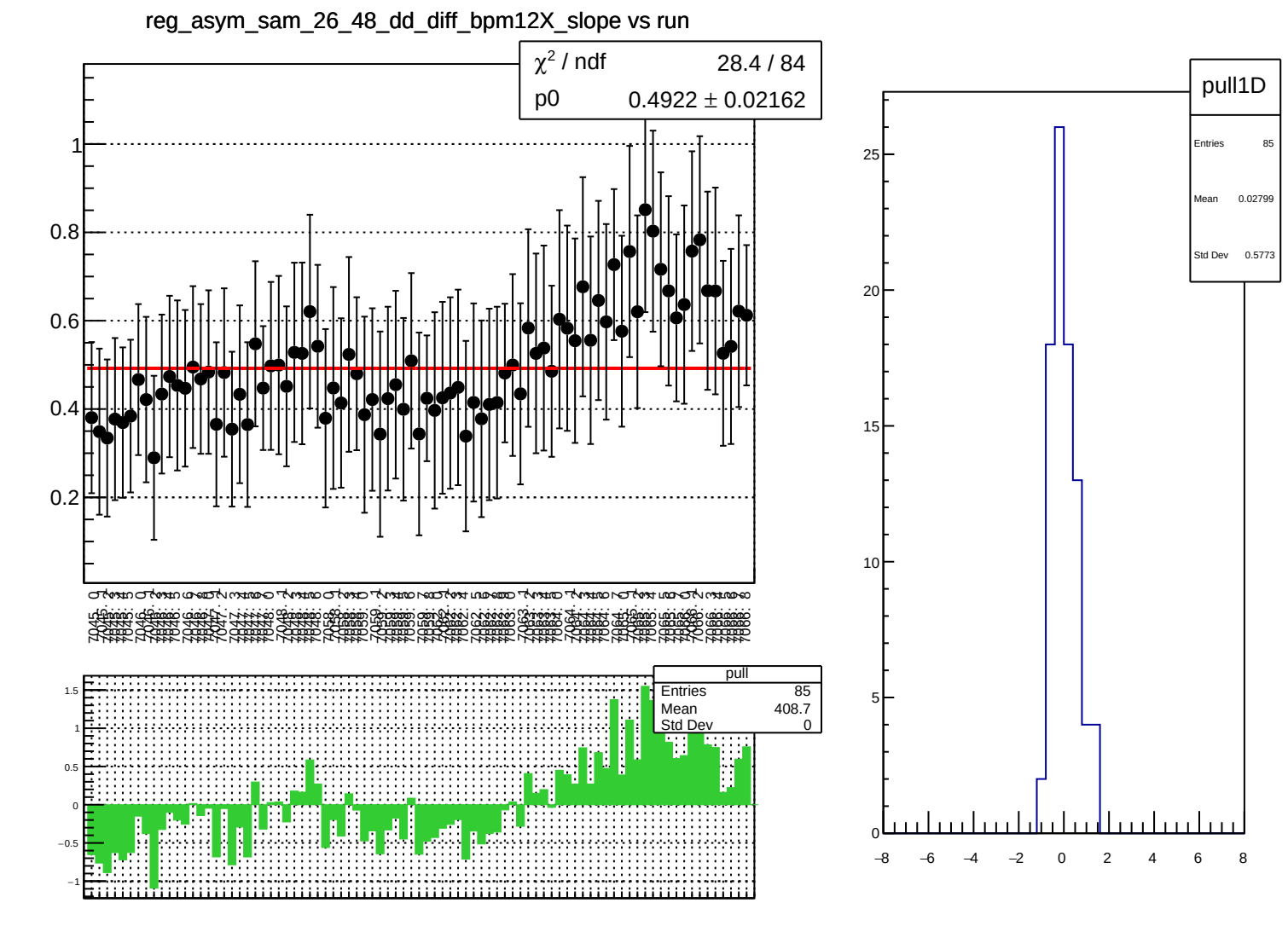

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.4 / 84
p0 10.44 ± 0.4362
pull
Entries 85
Mean 664.1
Std Dev 0
pull1D
Entries 85
Mean −0.03052
Std Dev 1.134

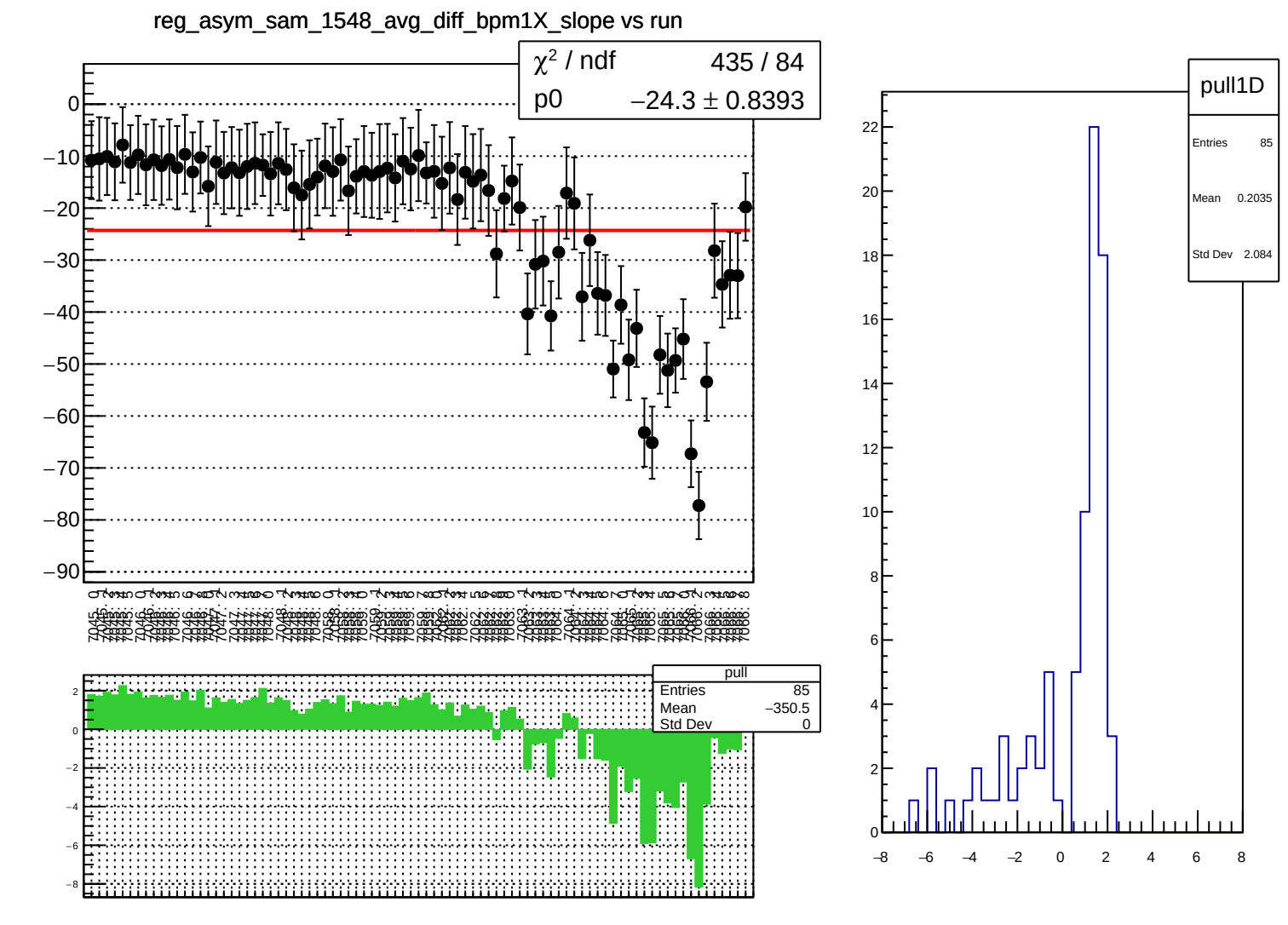

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 357.3 / 84
p0 8.284 ± 0.6197
pull
Entries 85
Mean −5.414e+04
Std Dev 0

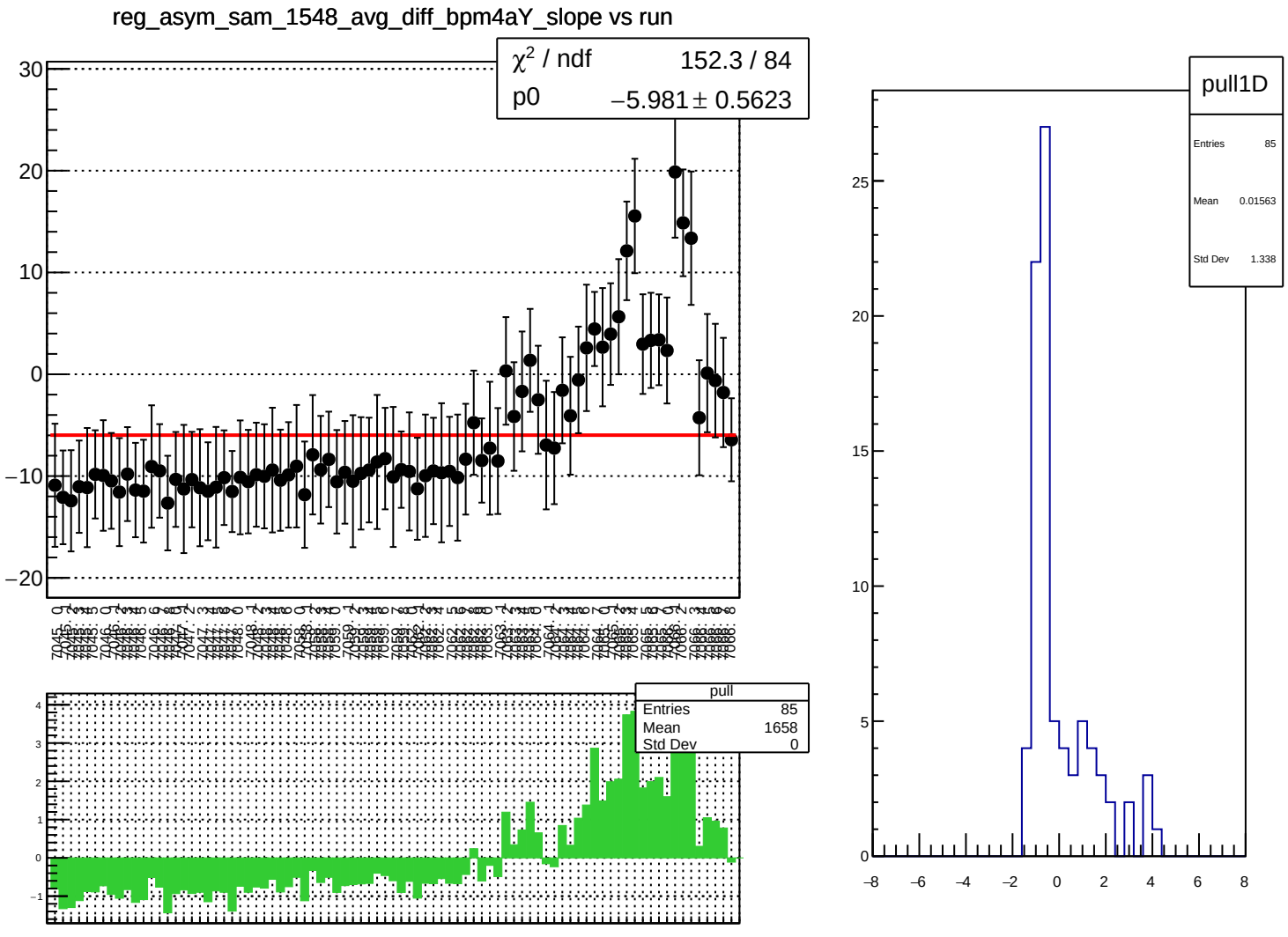

pull1D
Entries 85
Mean 0.0007466
Std Dev 2.05

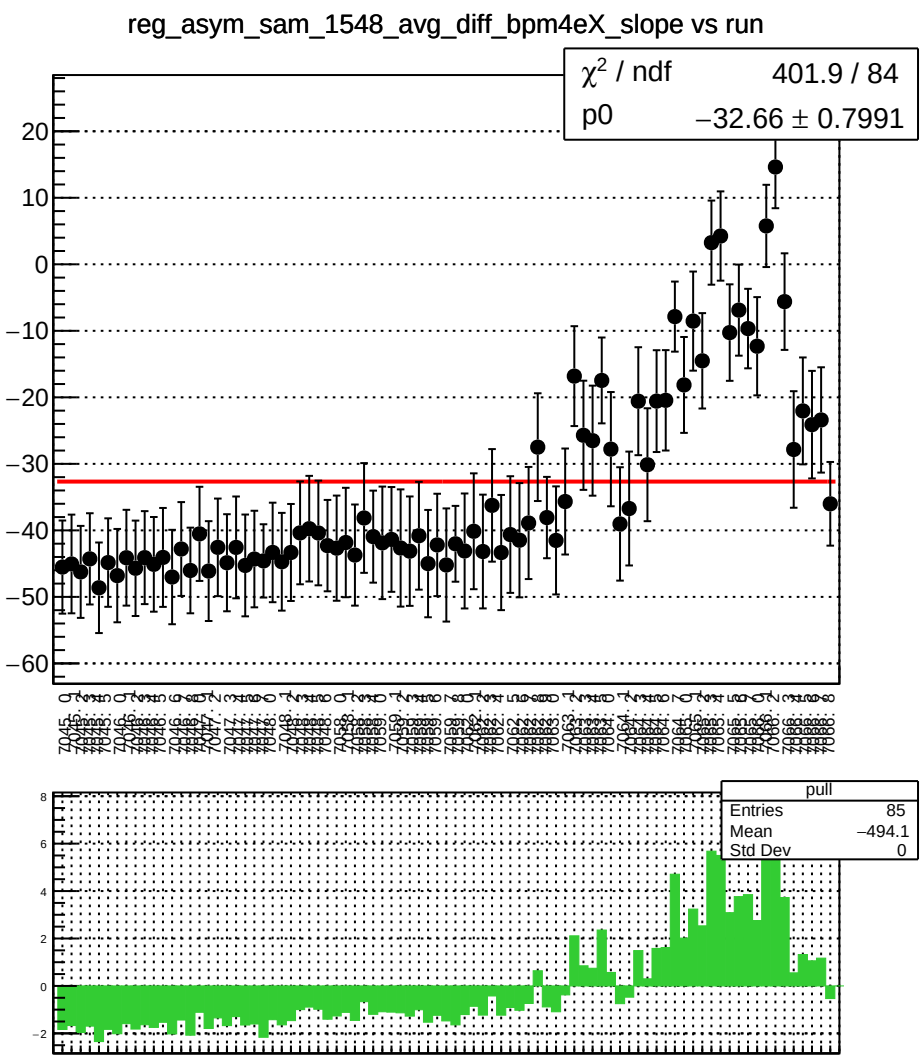

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.4 / 84
p0 −88.21 ± 0.4644
pull
Entries 85
Mean 1003
Std Dev 0

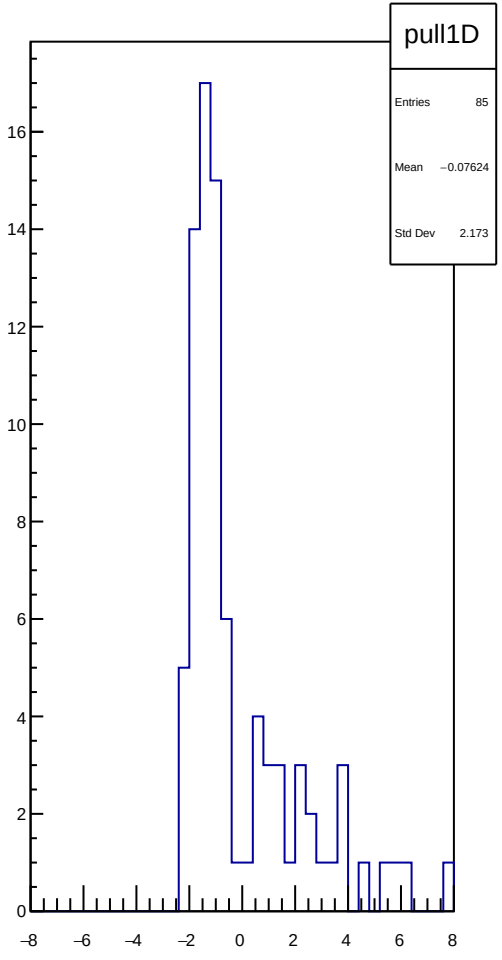

pull1D
Entries 85
Mean 0.01857
Std Dev 1.119

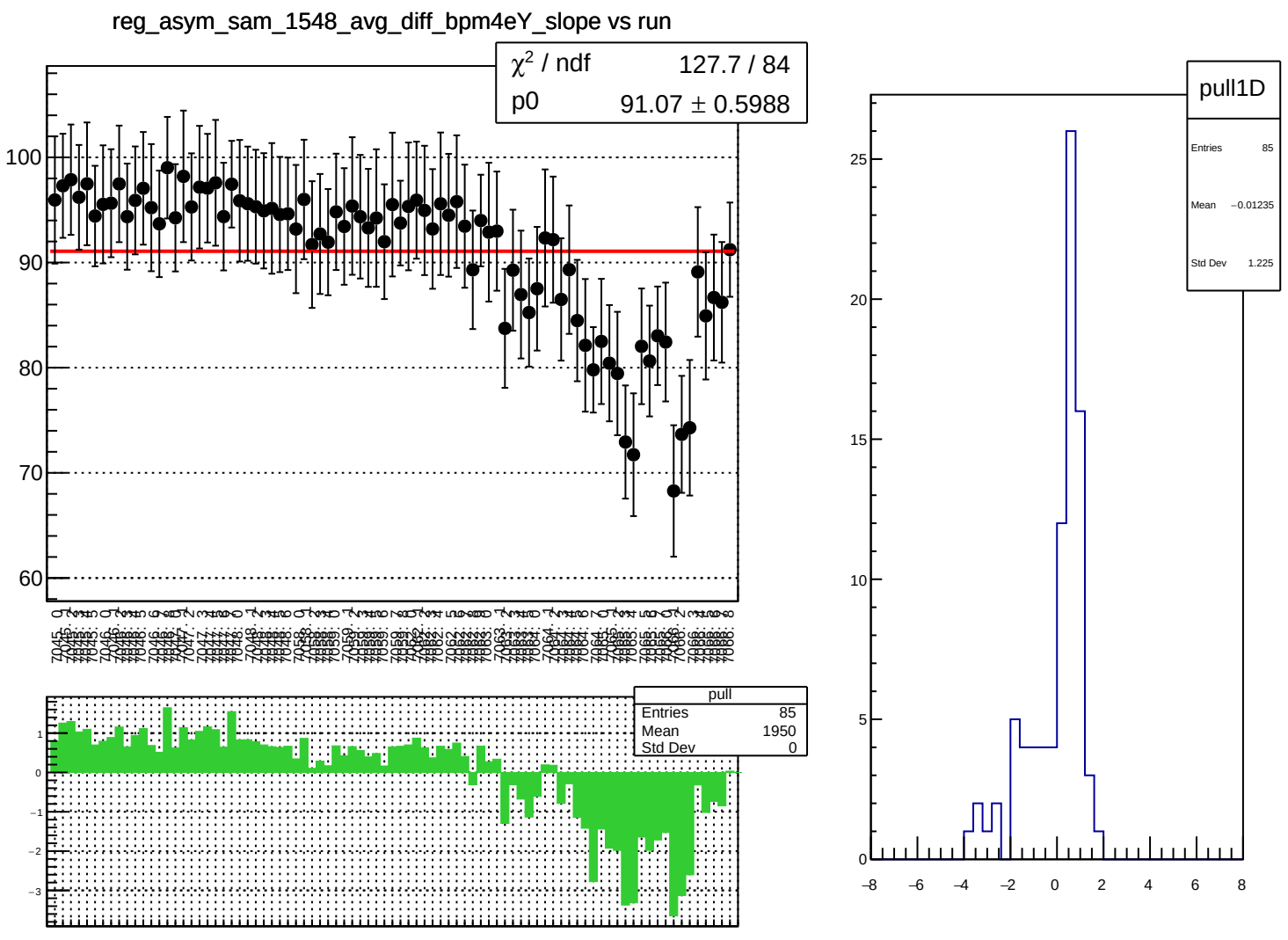

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 28.4 / 84
p0 0.4922 ± 0.02162
pull
Entries 85
Mean 408.7
Std Dev 0
pull1D
Entries 85
Mean 0.02799
Std Dev 0.5773

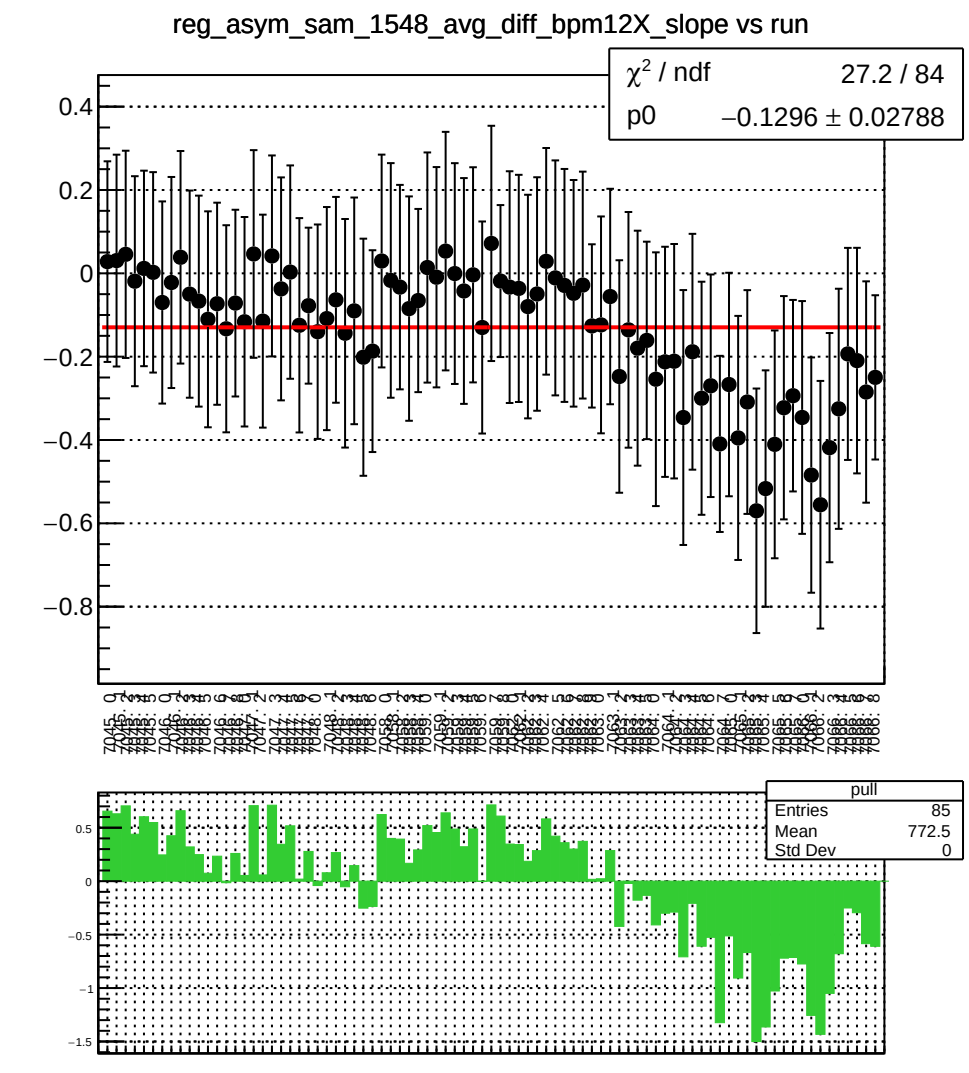

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 435 / 84
p0 −24.3 ± 0.8393
pull
Entries 85
Mean −350.5
Std Dev 0
pull1D
Entries 85
Mean 0.2035
Std Dev 2.084

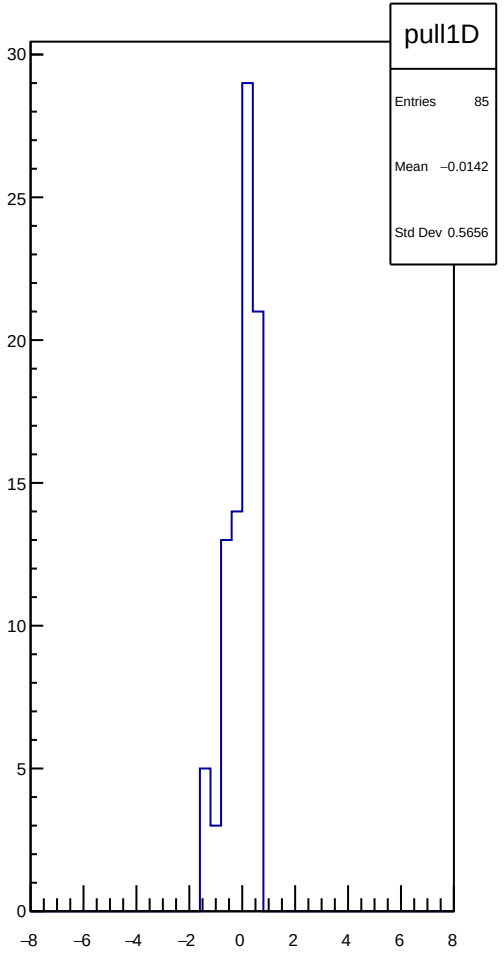

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 152.3 / 84
p0 −5.981 ± 0.5623
pull
Entries 85
Mean 1658
Std Dev 0
pull1D
Entries 85
Mean 0.01563
Std Dev 1.338

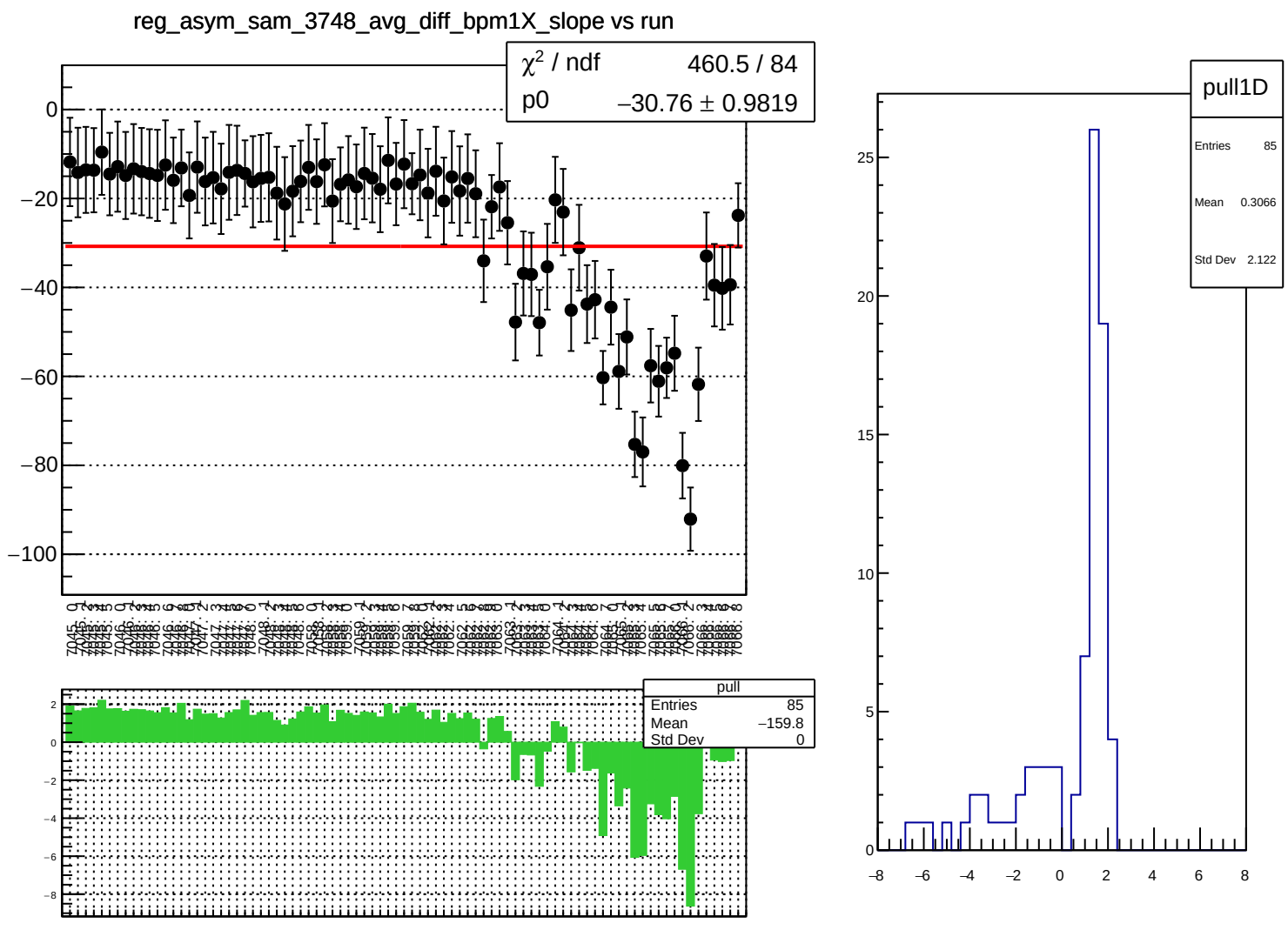

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 401.9 / 84
p0 −32.66 ± 0.7991
pull
Entries 85
Mean −494.1
Std Dev 0

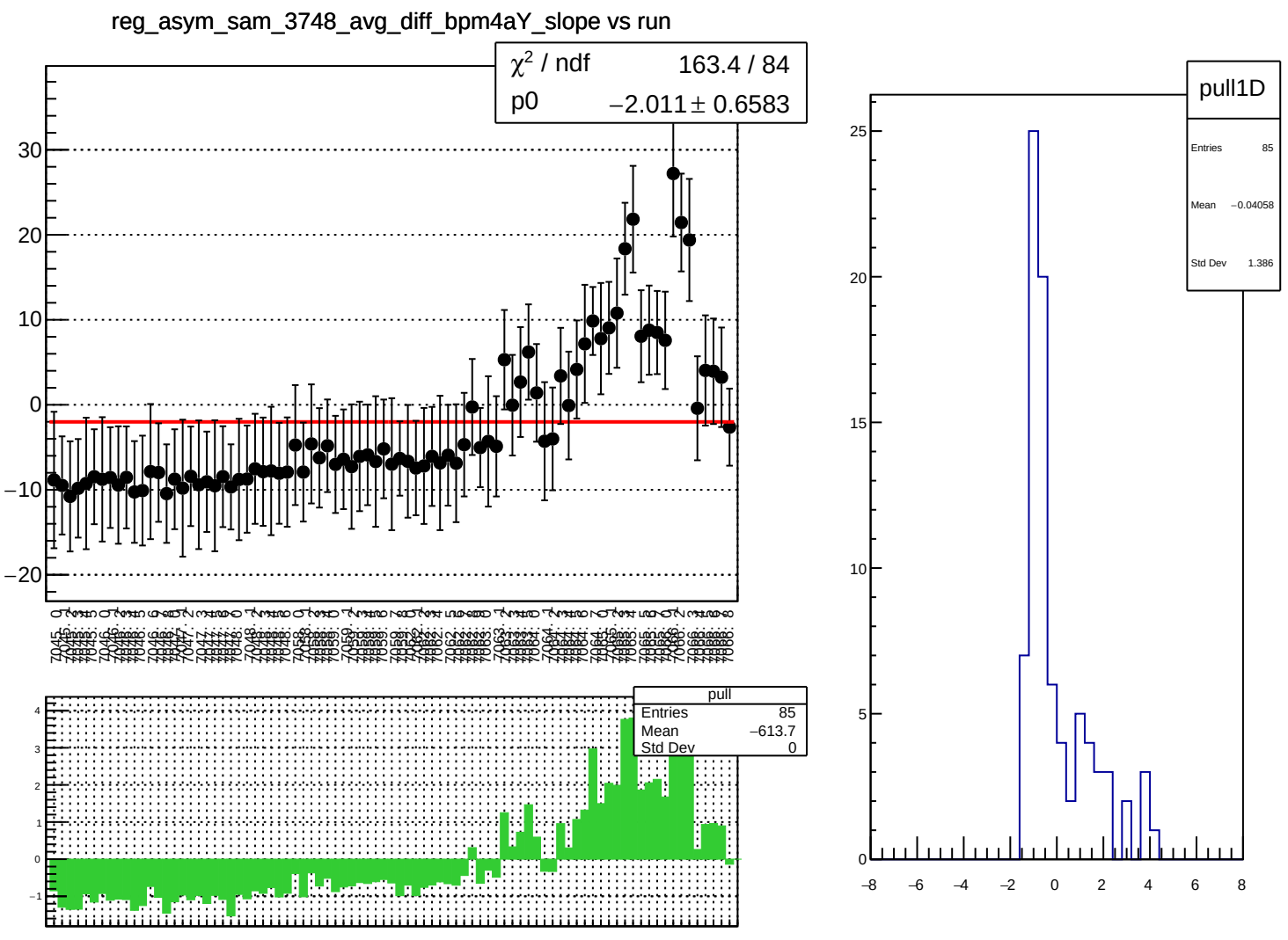

pull1D
Entries 85
Mean −0.07624
Std Dev 2.173

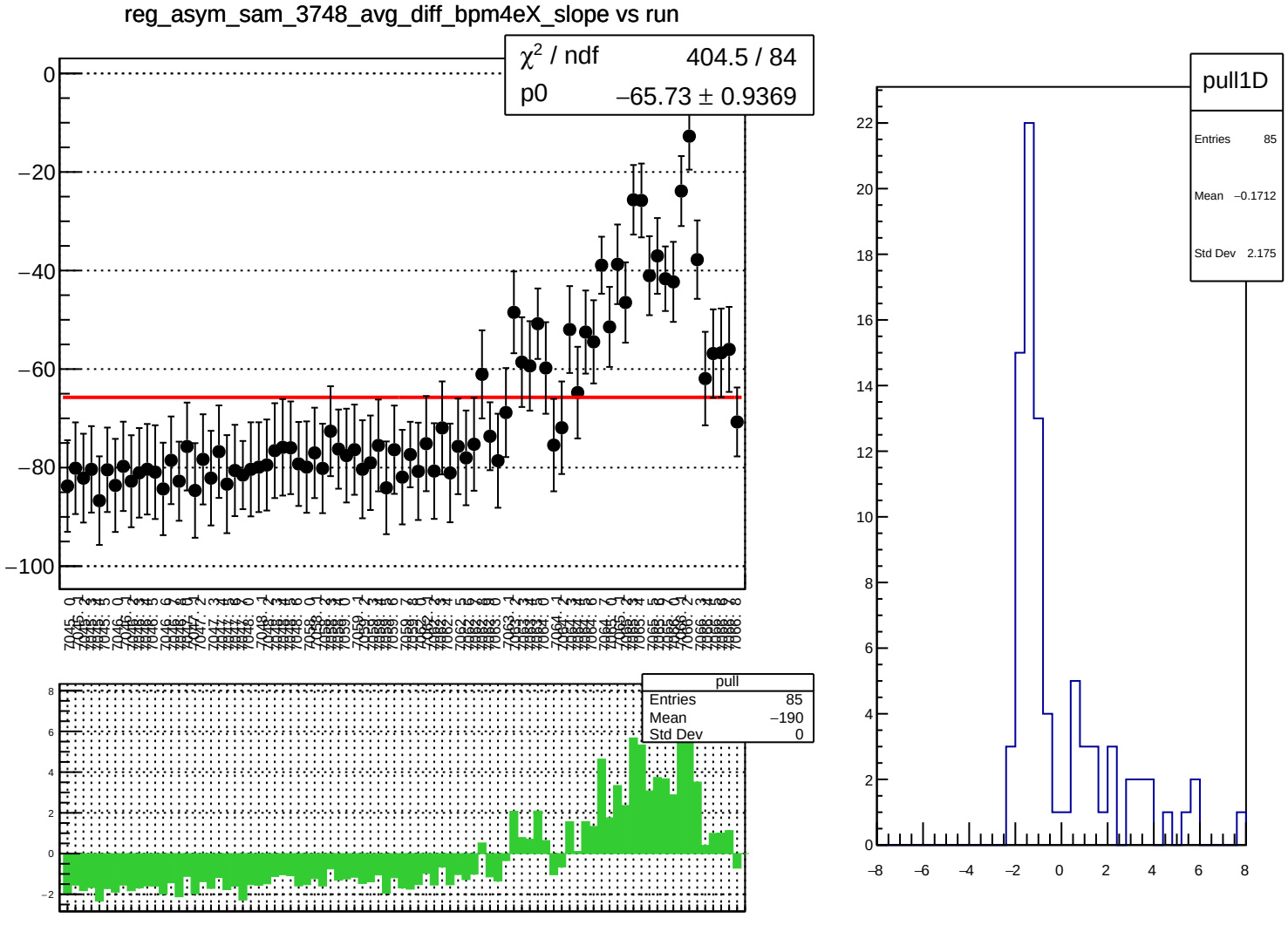

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 127.7 / 84
p0 91.07 ± 0.5988
pull
Entries 85
Mean 1950
Std Dev 0
pull1D
Entries 85
Mean −0.01235
Std Dev 1.225

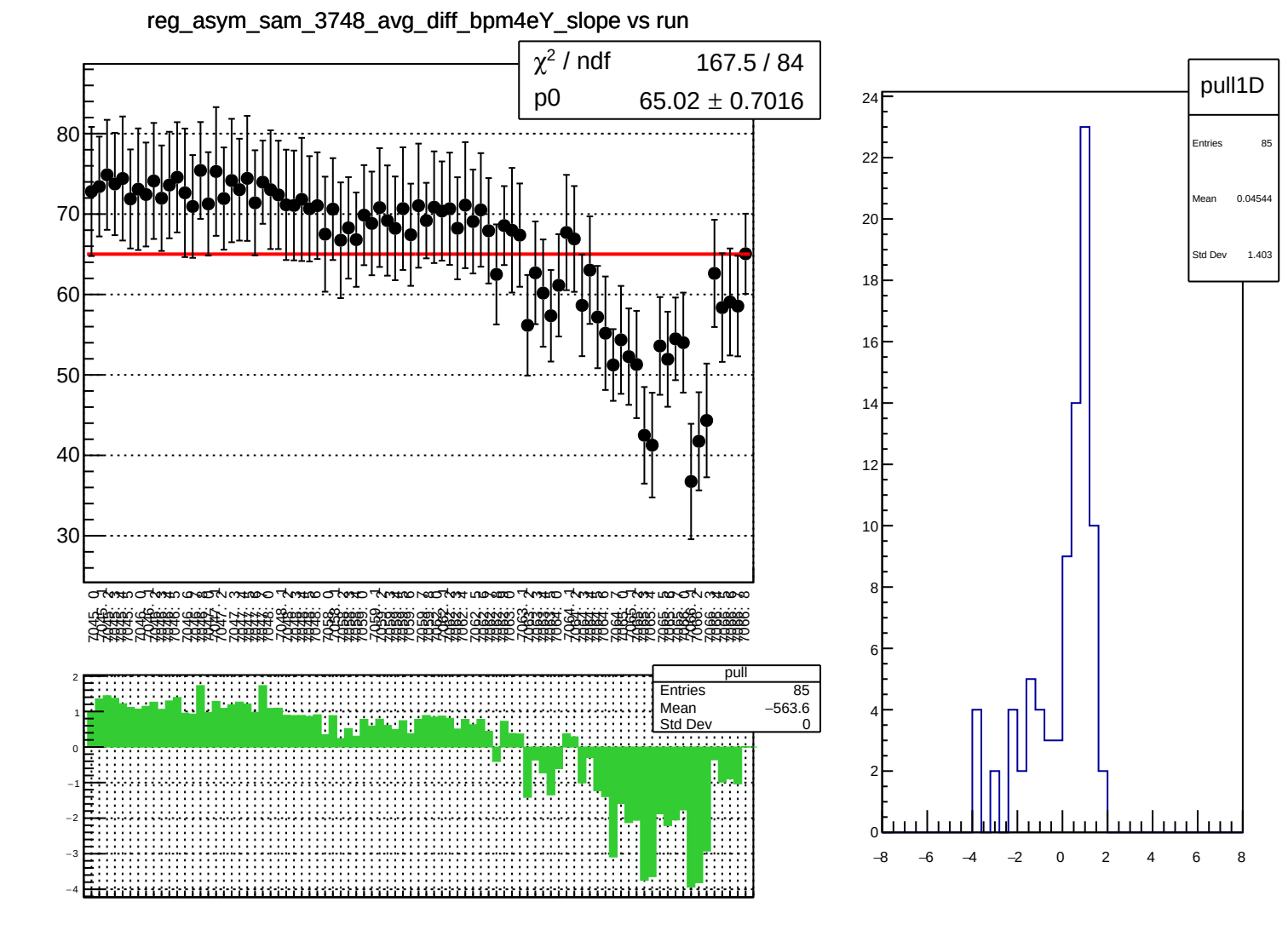

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 27.2 / 84
p0 −0.1296 ± 0.02788
pull
Entries 85
Mean 772.5
Std Dev 0

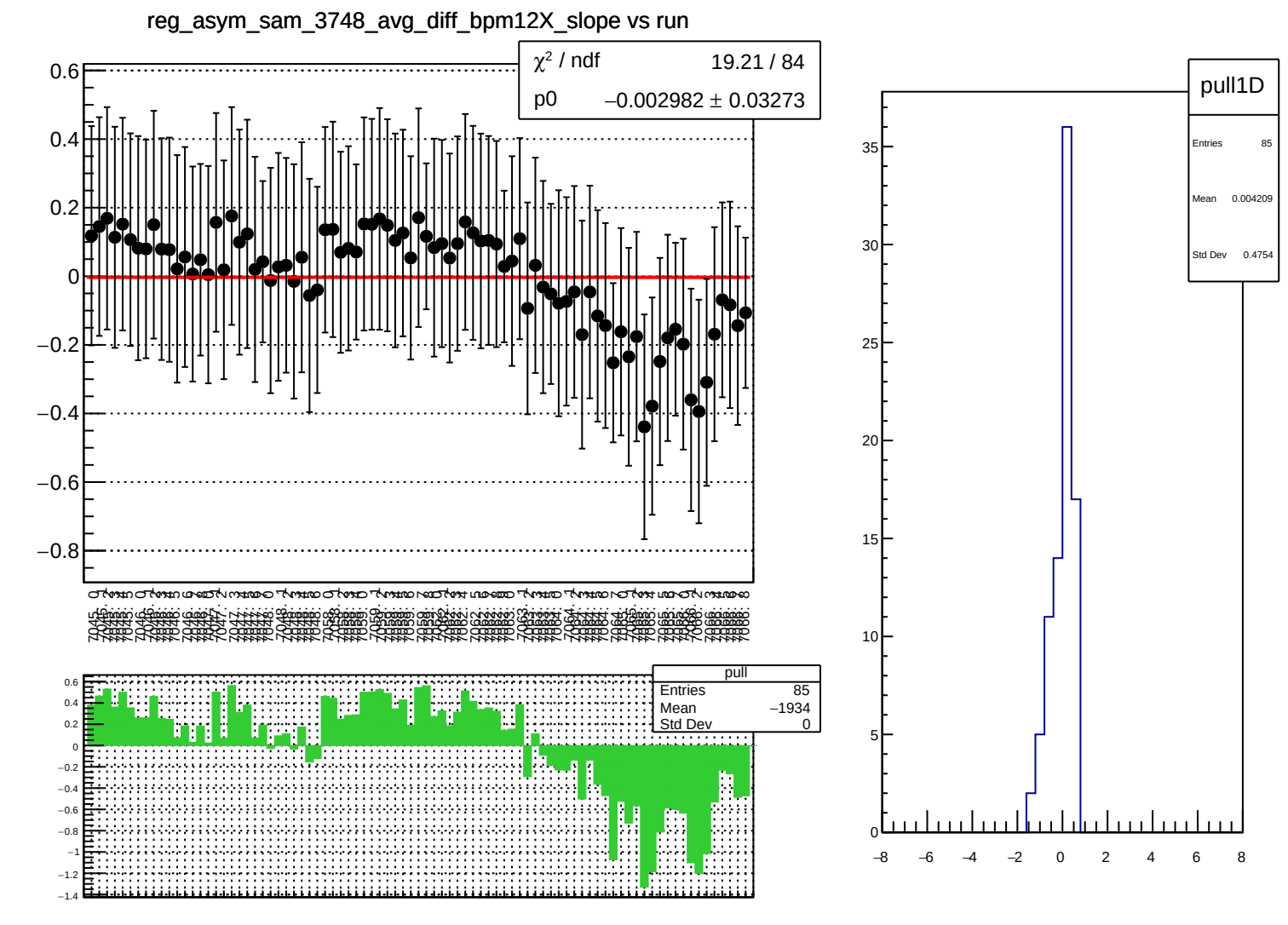

pull1D
Entries 85
Mean −0.0142
Std Dev 0.5656

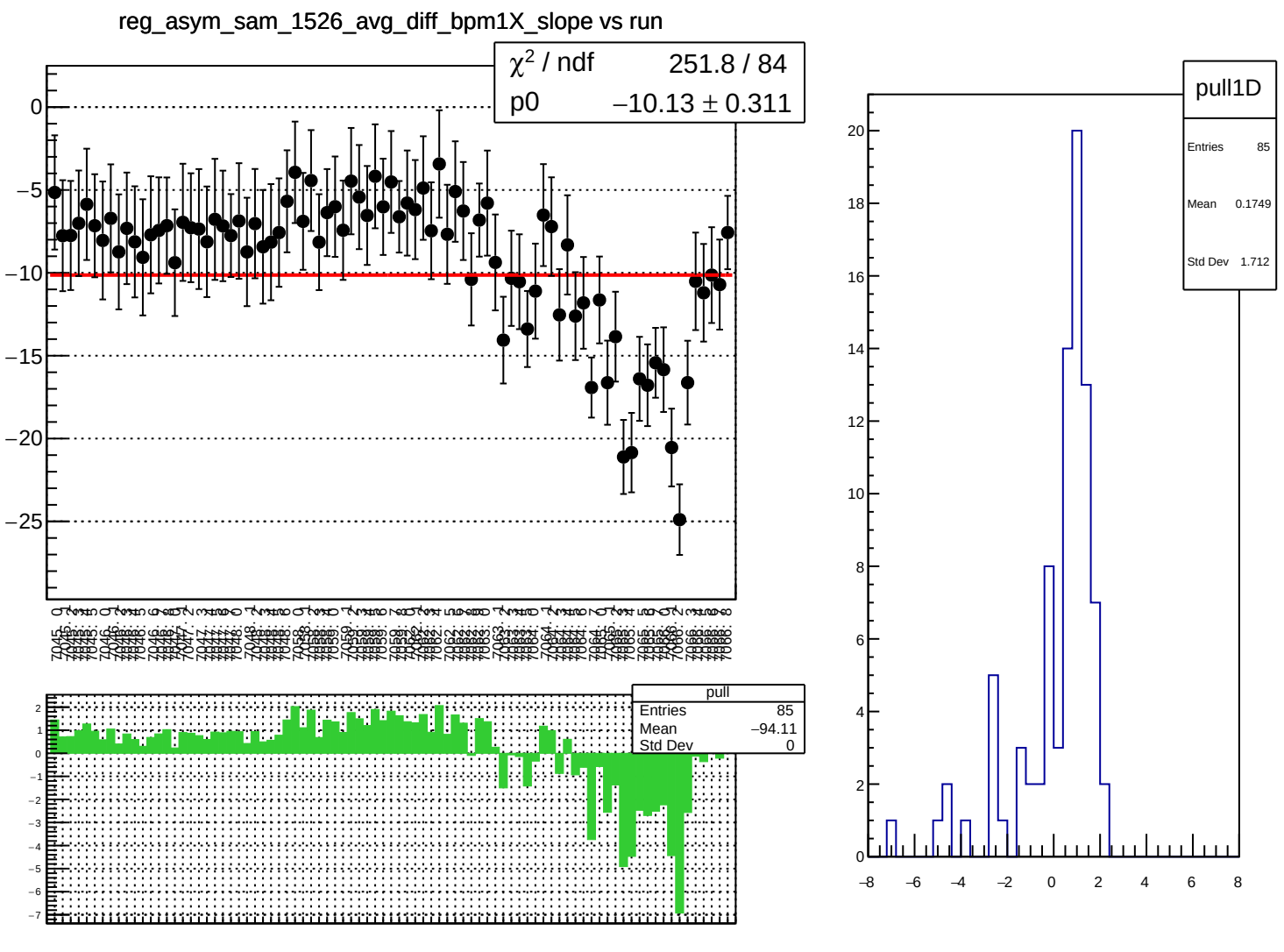

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 460.5 / 84
p0 −30.76 ± 0.9819
pull
Entries 85
Mean −159.8
Std Dev 0
pull1D
Entries 85
Mean 0.3066
Std Dev 2.122

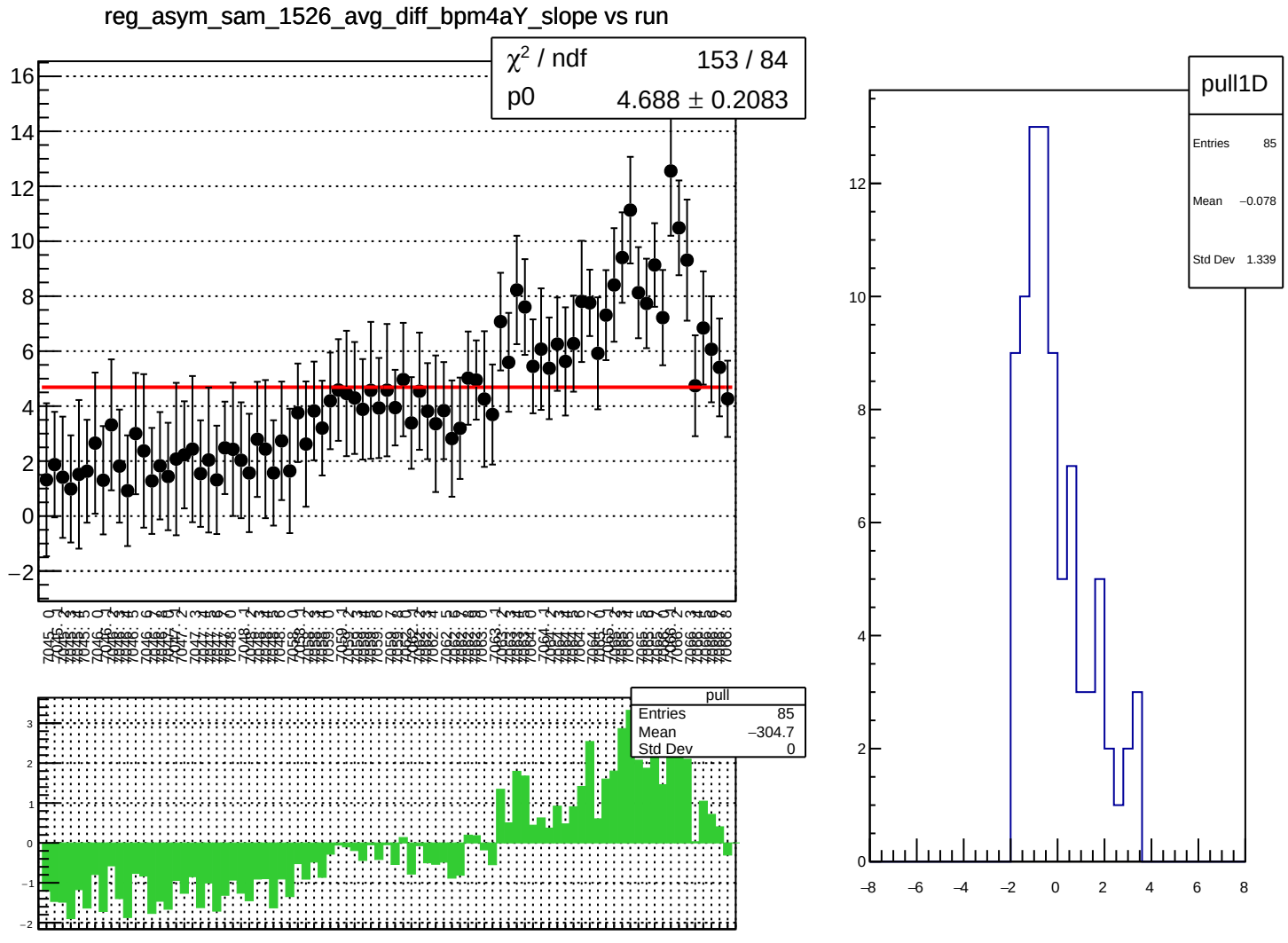

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 163.4 / 84
p0 −2.011 ± 0.6583
pull
Entries 85
Mean −613.7
Std Dev 0
pull1D
Entries 85
Mean −0.04058
Std Dev 1.386

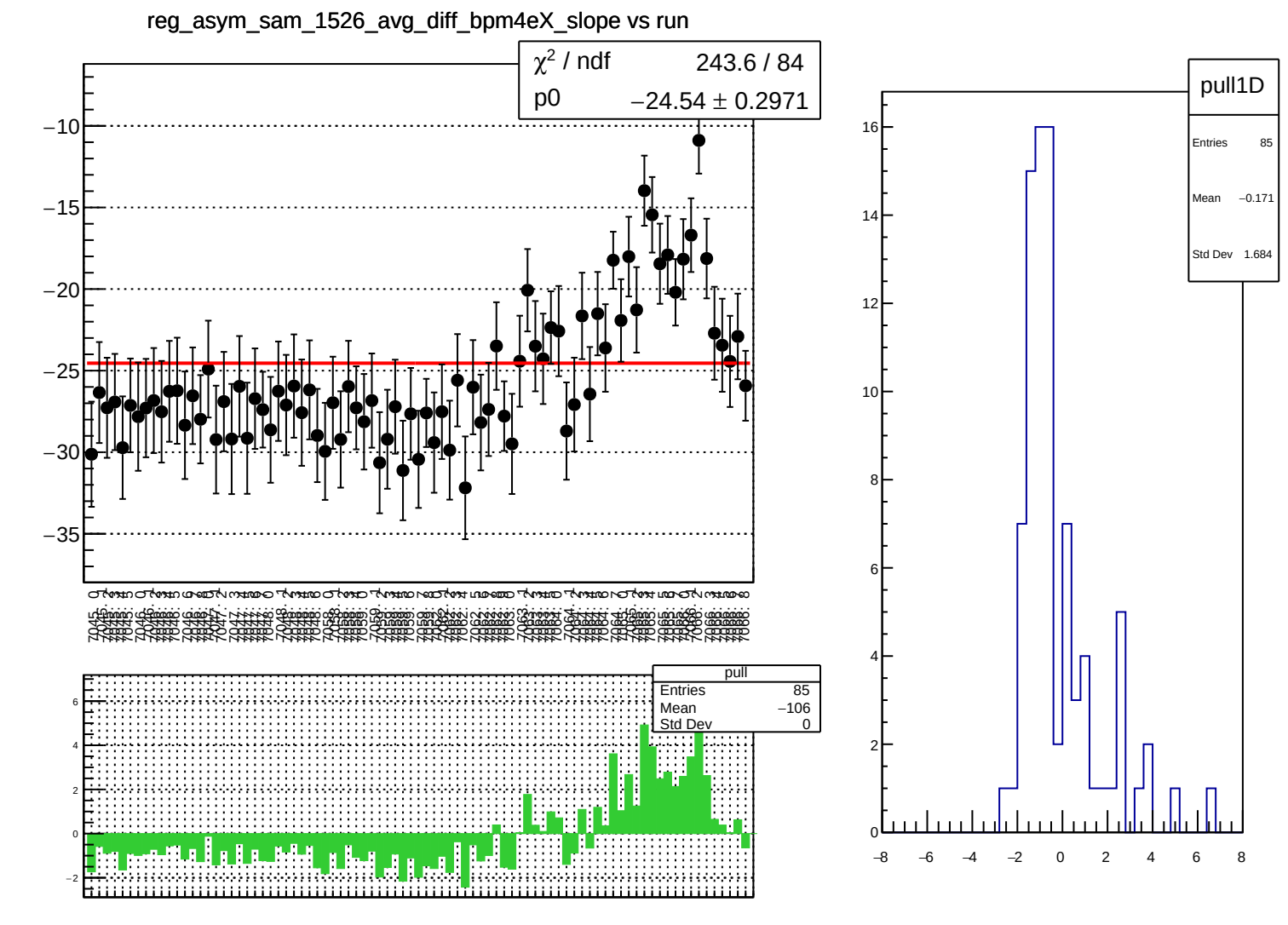

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 404.5 / 84
p0 −65.73 ± 0.9369
pull
Entries 85
Mean −190
Std Dev 0
pull1D
Entries 85
Mean −0.1712
Std Dev 2.175

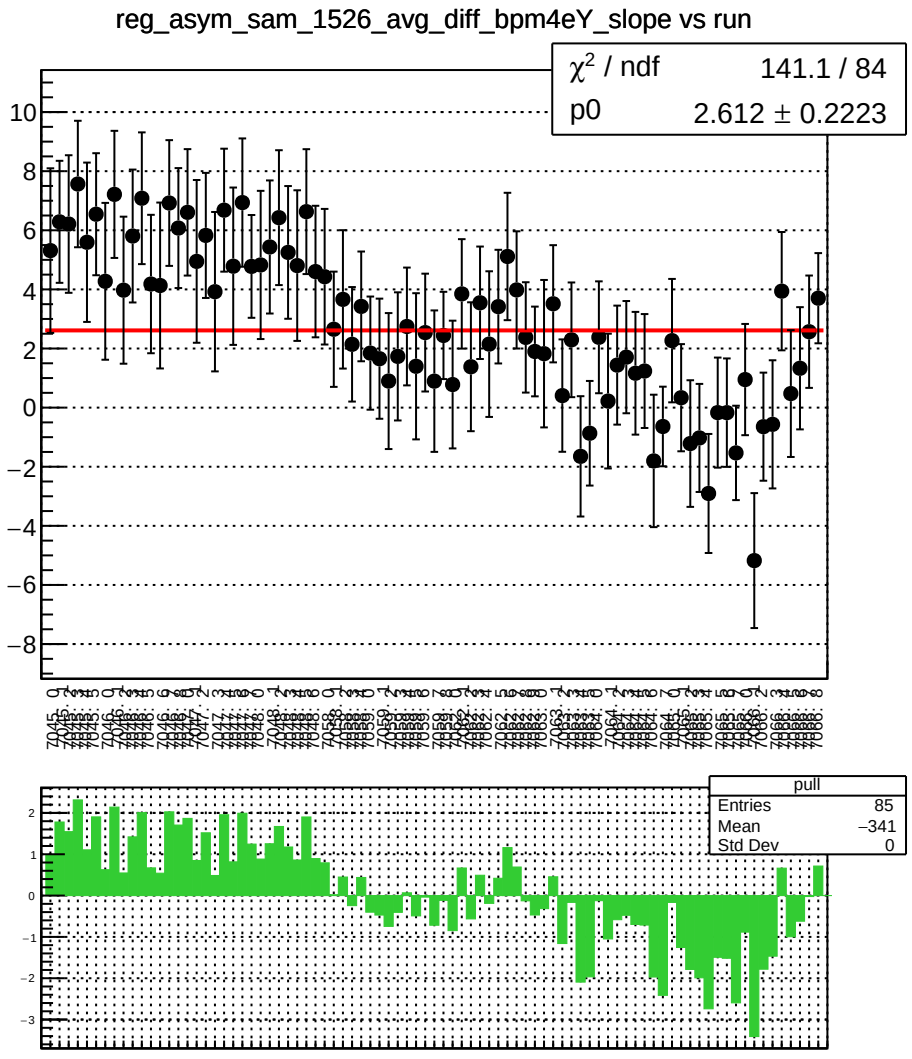

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 167.5 / 84
p0 65.02 ± 0.7016
pull
Entries 85
Mean −563.6
Std Dev 0
pull1D
Entries 85
Mean 0.04544
Std Dev 1.403

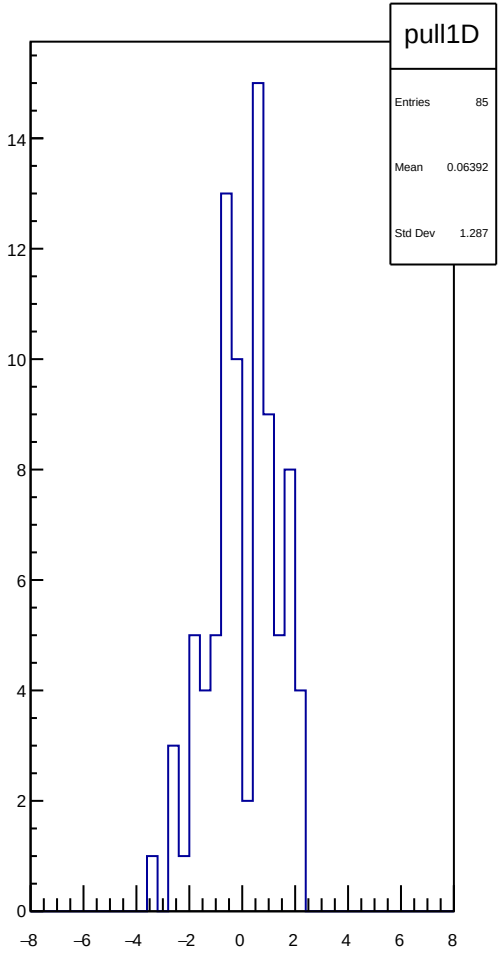

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 19.21 / 84
p0 −0.002982 ± 0.03273
pull
Entries 85
Mean −1934
Std Dev 0
pull1D
Entries 85
Mean 0.004209
Std Dev 0.4754

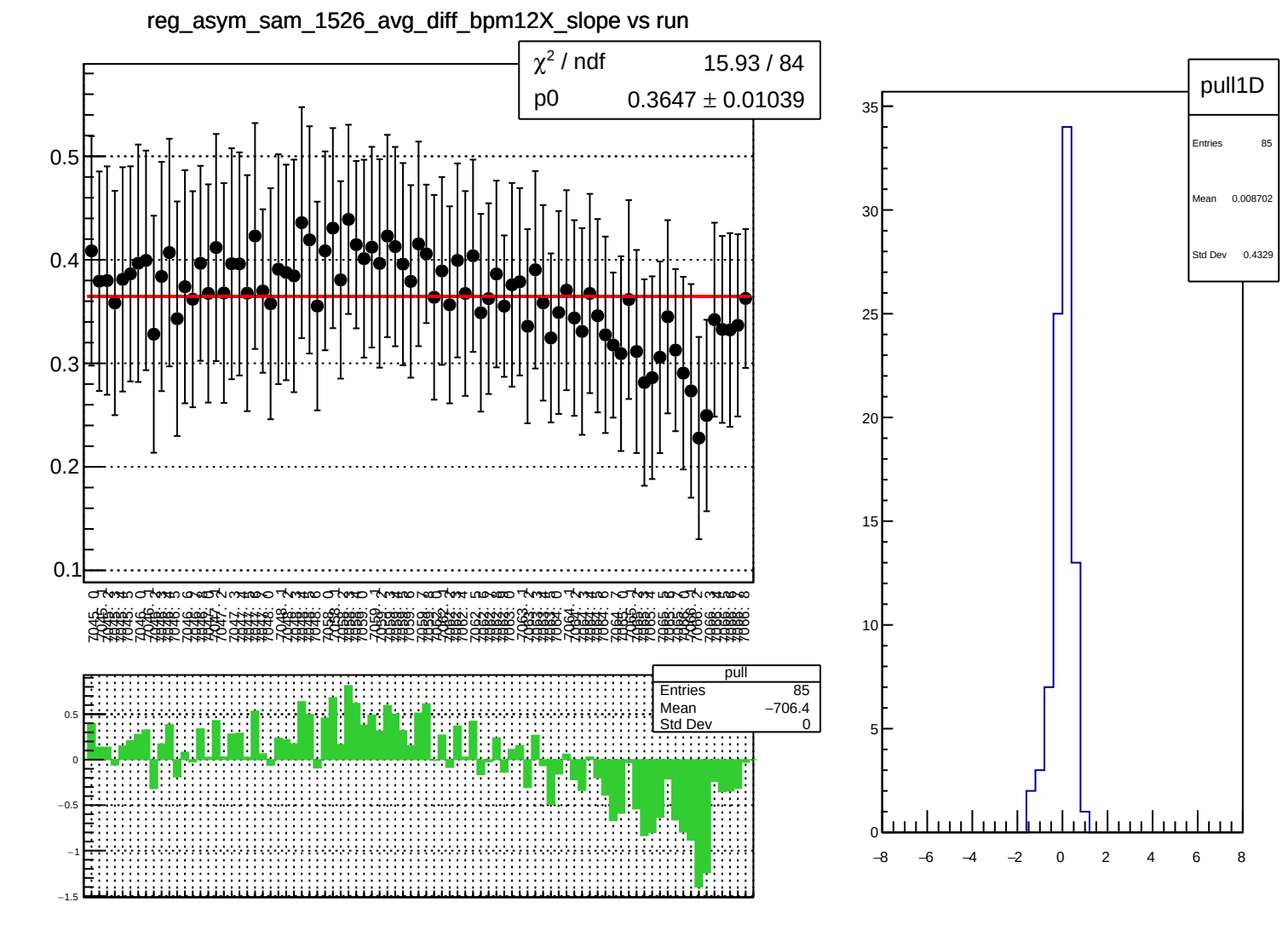

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 251.8 / 84
p0 −10.13 ± 0.311
pull
Entries 85
Mean −94.11
Std Dev 0
pull1D
Entries 85
Mean 0.1749
Std Dev 1.712

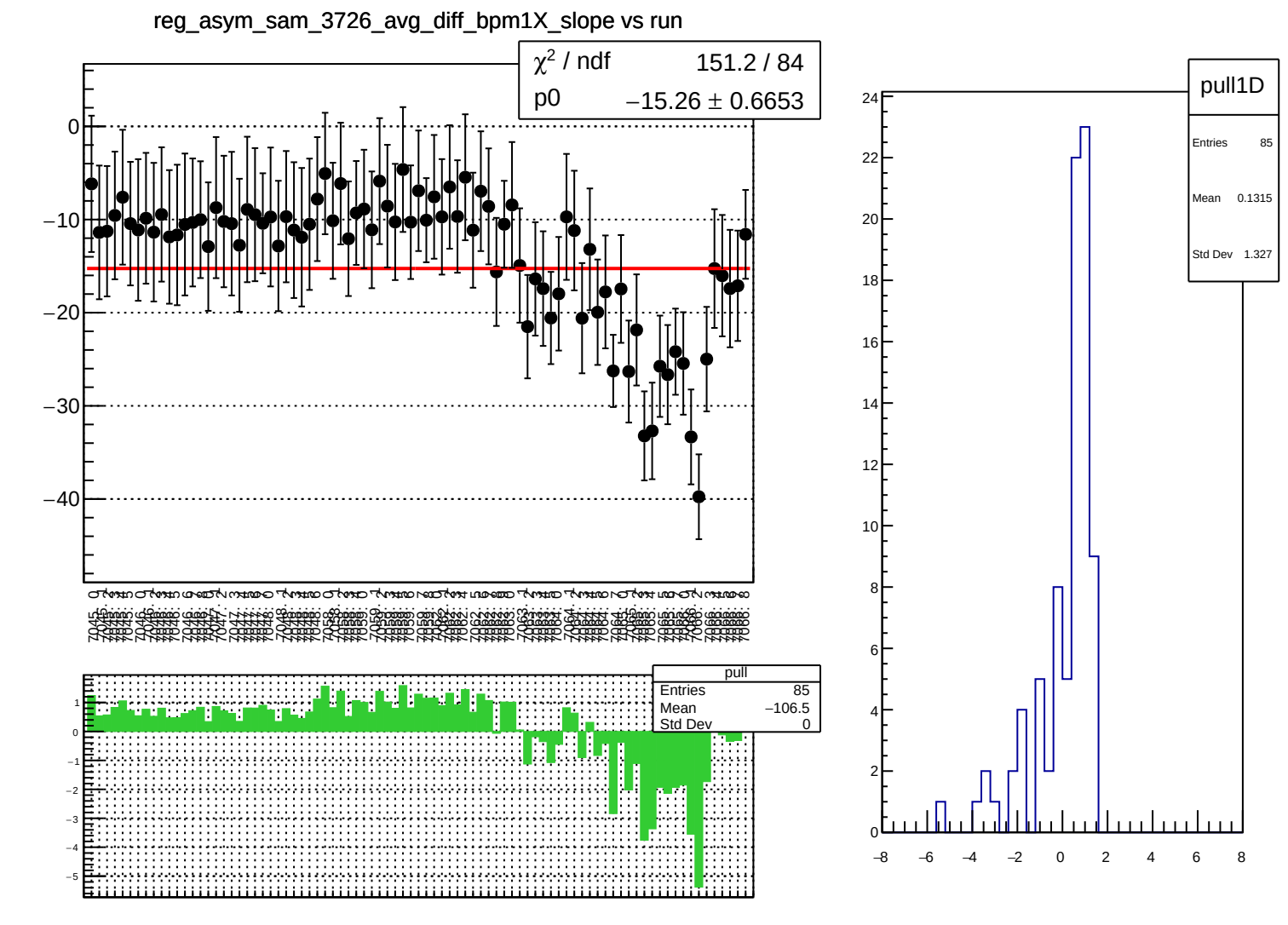

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 153 / 84
p0 4.688 ± 0.2083
pull
Entries 85
Mean −304.7
Std Dev 0
pull1D
Entries 85
Mean −0.078
Std Dev 1.339

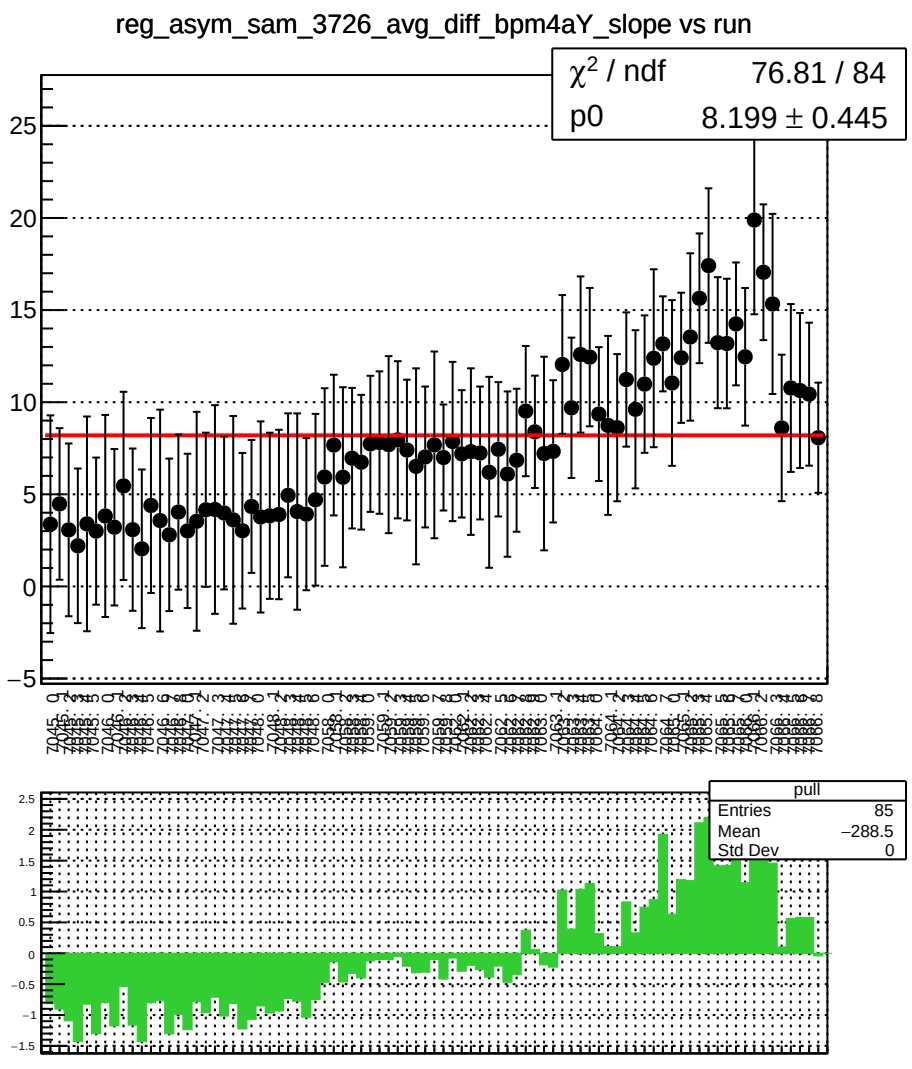

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 243.6 / 84
p0 −24.54 ± 0.2971
pull
Entries 85
Mean −106
Std Dev 0
pull1D
Entries 85
Mean −0.171
Std Dev 1.684

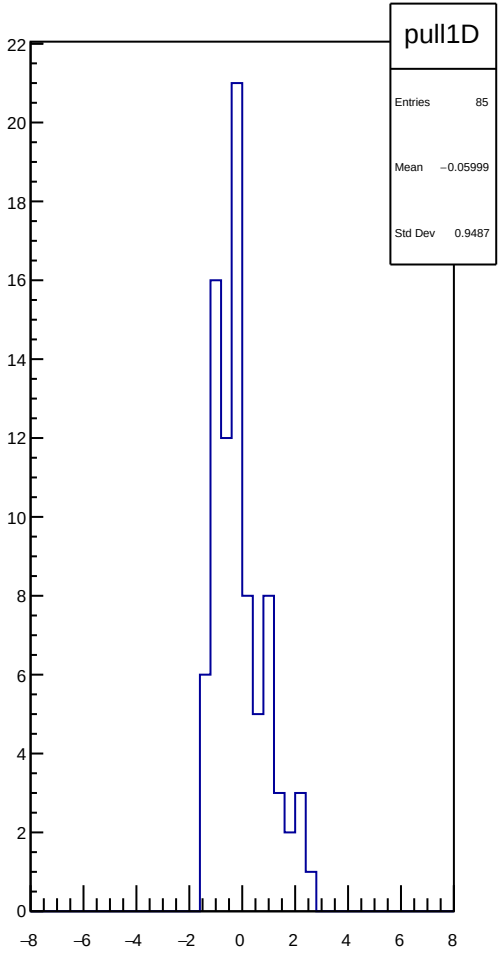

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 141.1 / 84
p0 2.612 ± 0.2223
pull
Entries 85
Mean −341
Std Dev 0

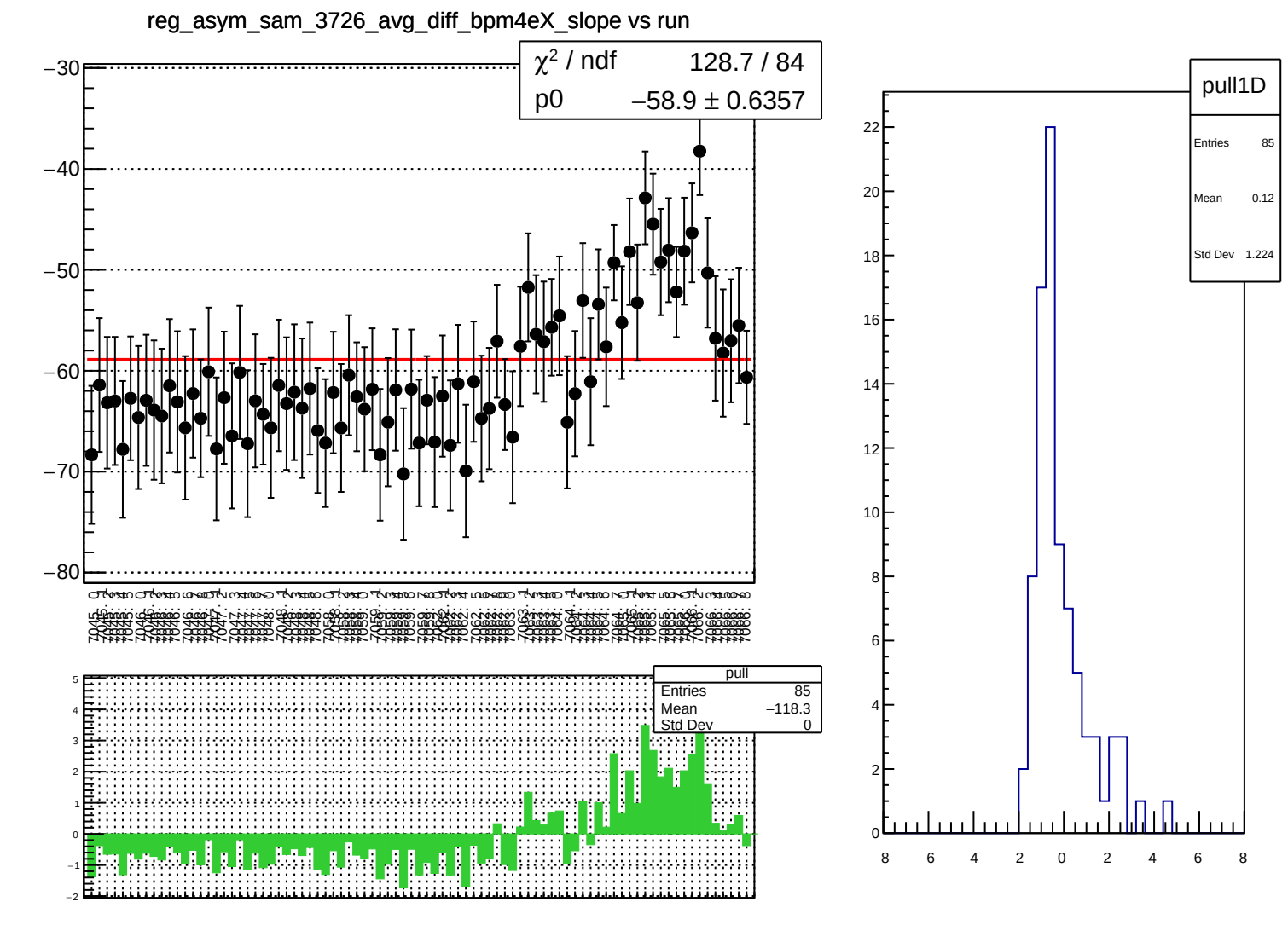

pull1D
Entries 85
Mean 0.06392
Std Dev 1.287

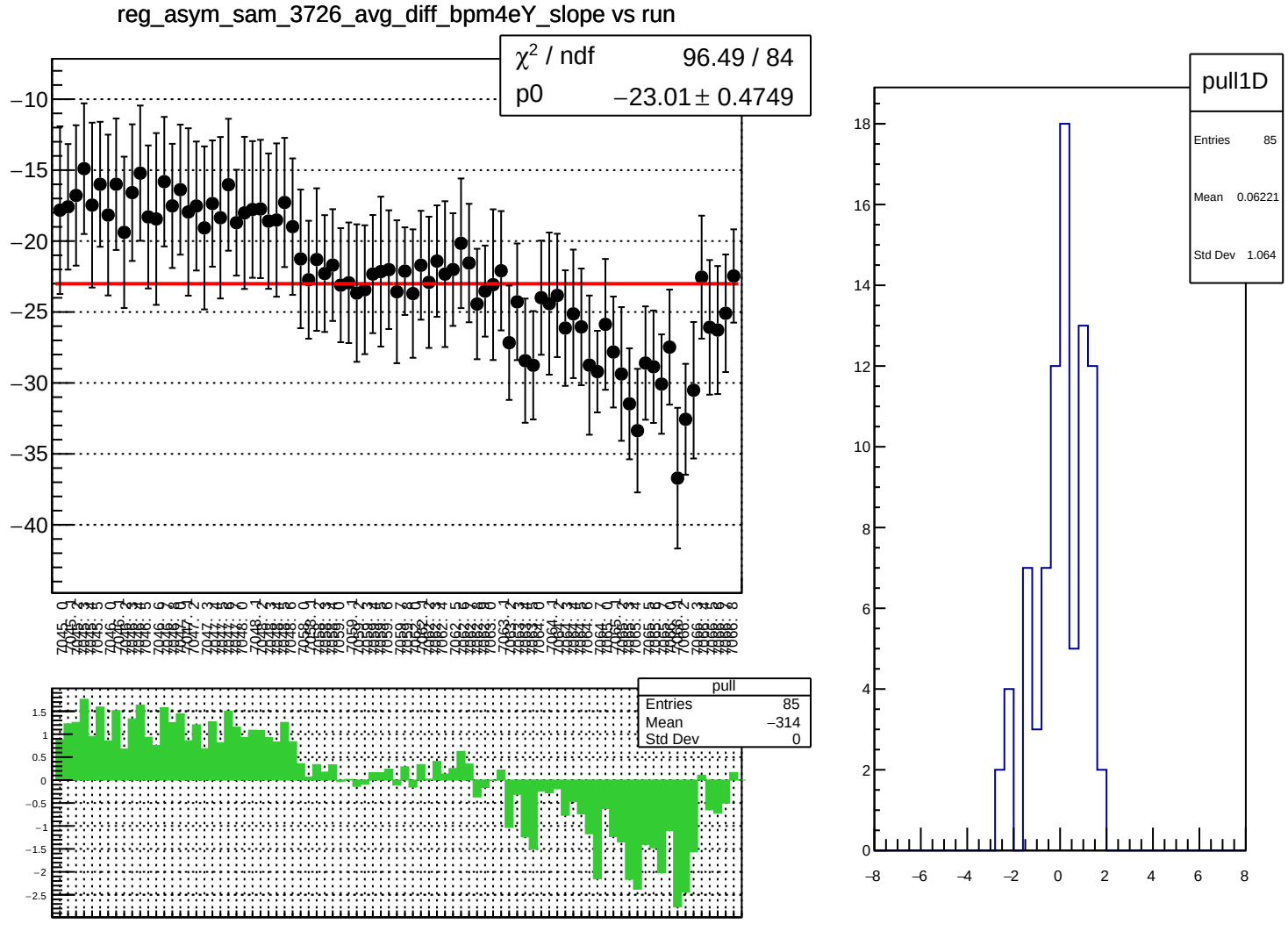

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 15.93 / 84
p0 0.3647 ± 0.01039
pull
Entries 85
Mean −706.4
Std Dev 0
pull1D
Entries 85
Mean 0.008702
Std Dev 0.4329

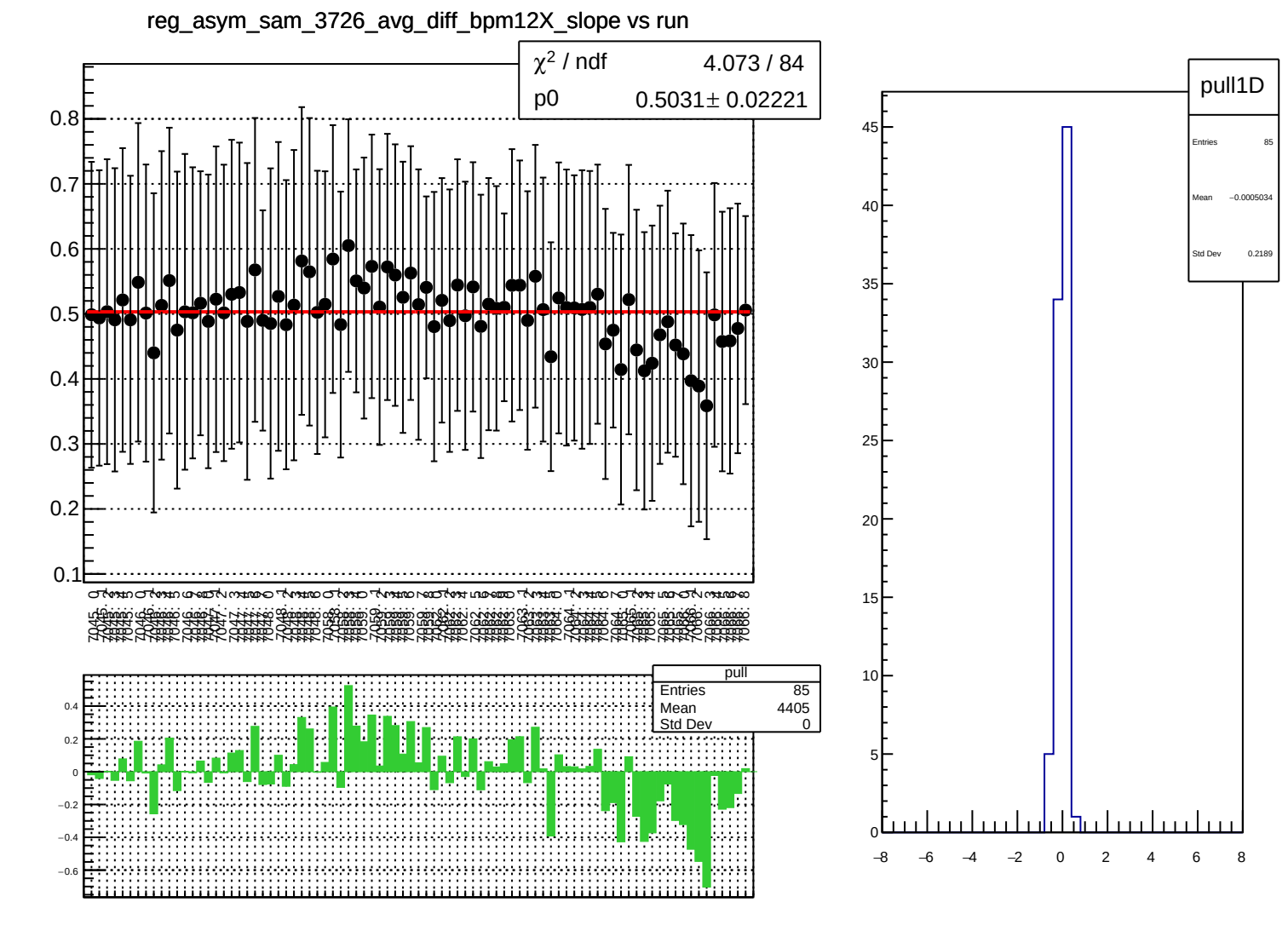

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 151.2 / 84
p0 −15.26 ± 0.6653
pull
Entries 85
Mean −106.5
Std Dev 0
pull1D
Entries 85
Mean 0.1315
Std Dev 1.327

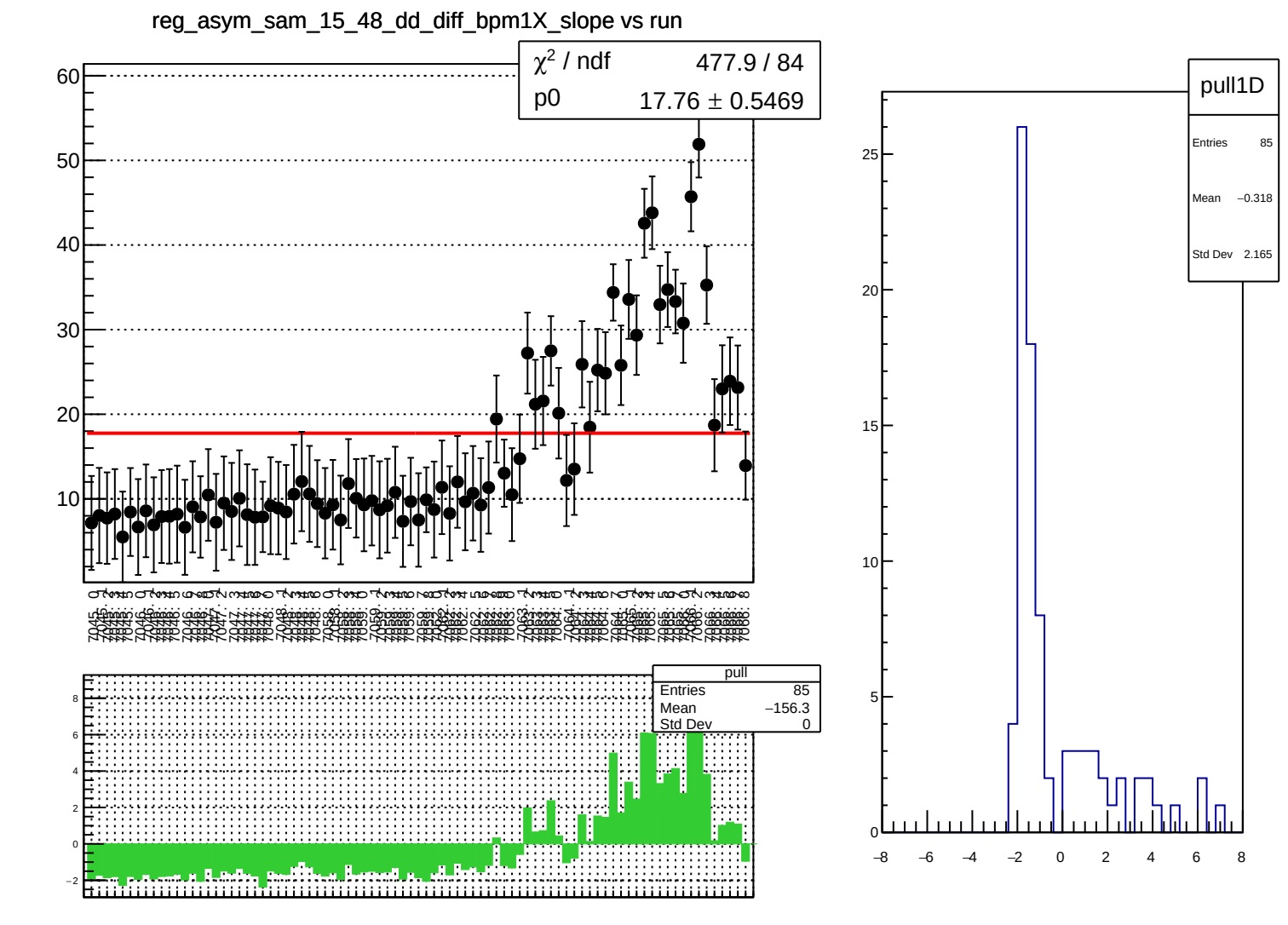

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.81 / 84
p0 8.199 ± 0.445
pull
Entries 85
Mean −288.5
Std Dev 0

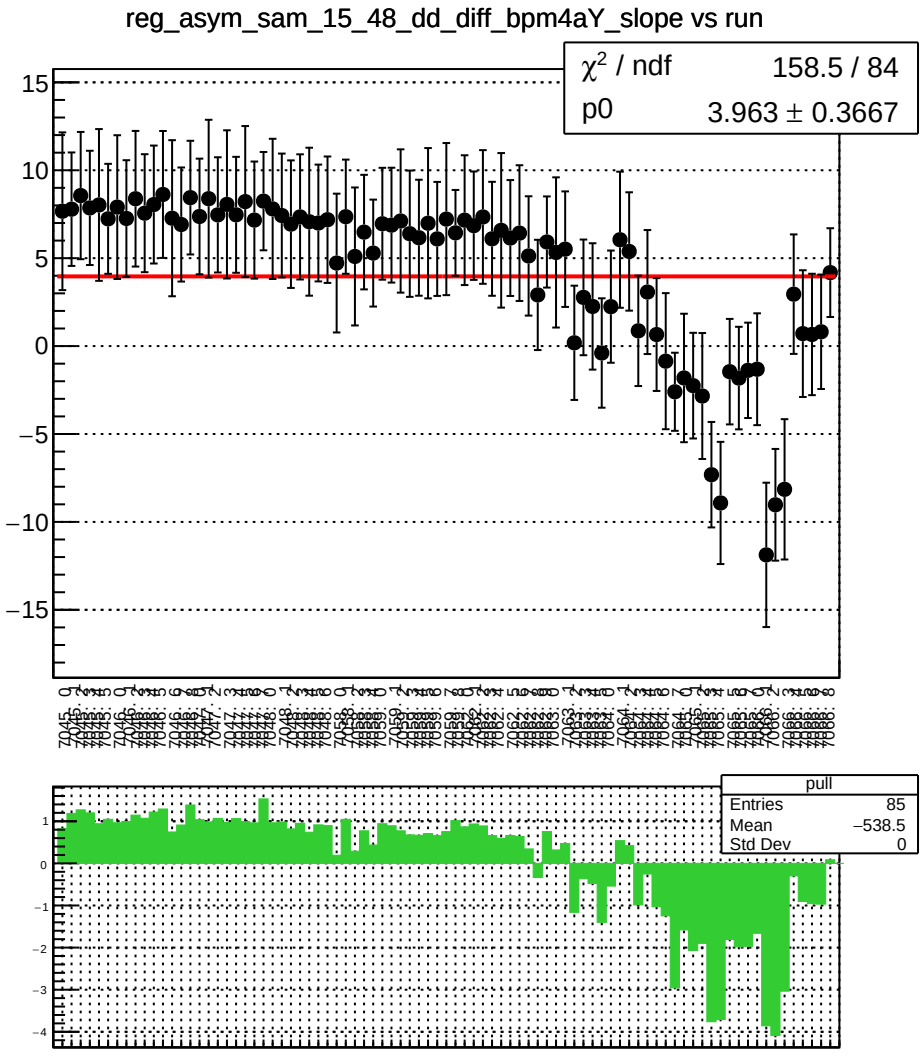

pull1D
Entries 85
Mean −0.05999
Std Dev 0.9487

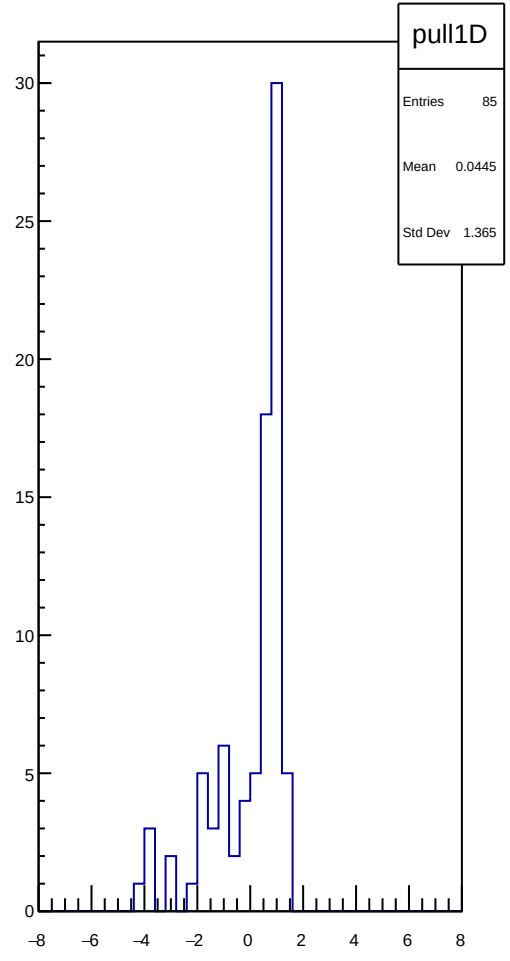

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 128.7 / 84
p0 −58.9 ± 0.6357
pull
Entries 85
Mean −118.3
Std Dev 0
pull1D
Entries 85
Mean −0.12
Std Dev 1.224

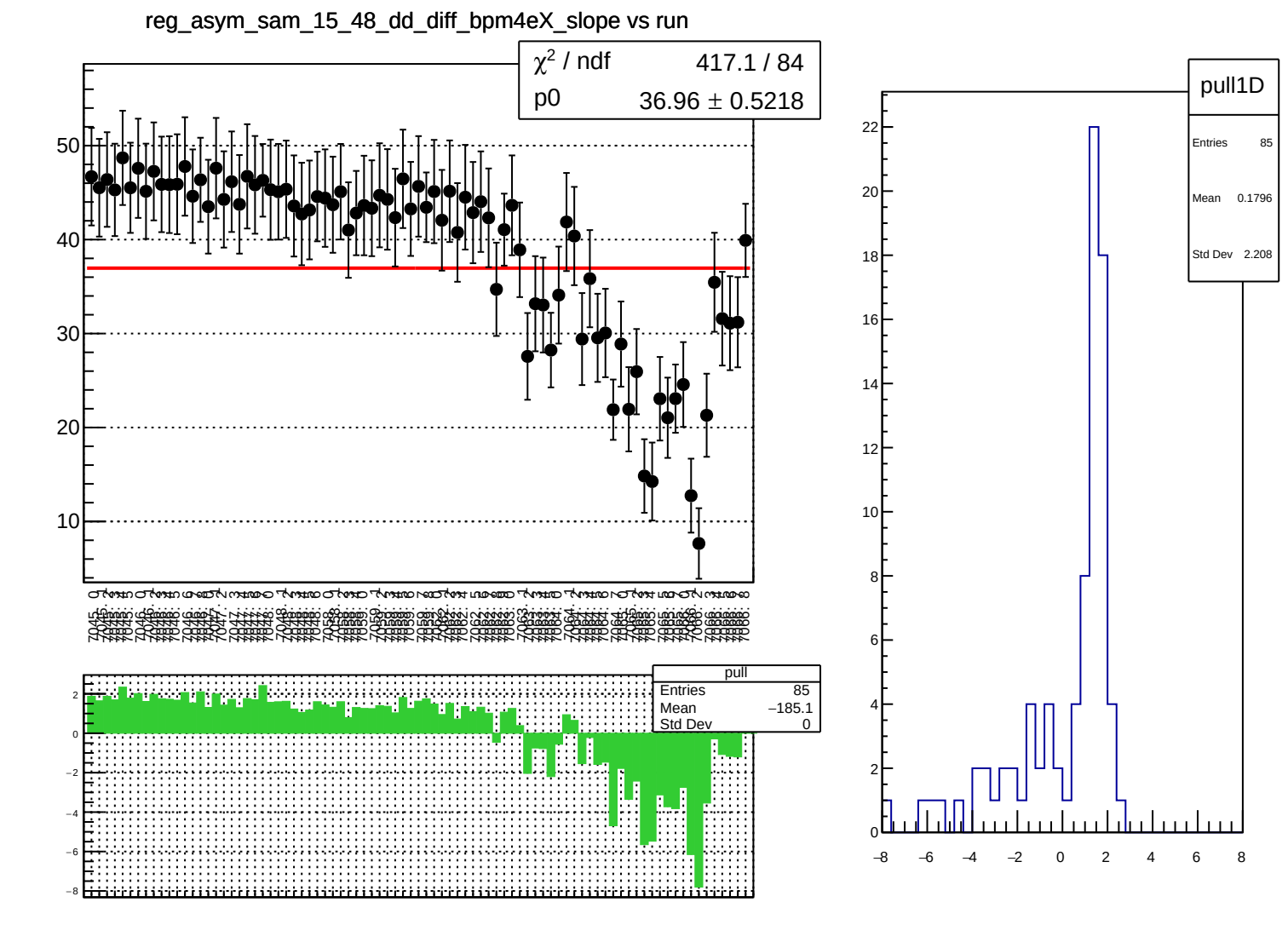

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.49 / 84
p0 −23.01 ± 0.4749
pull
Entries 85
Mean −314
Std Dev 0
pull1D
Entries 85
Mean 0.06221
Std Dev 1.064

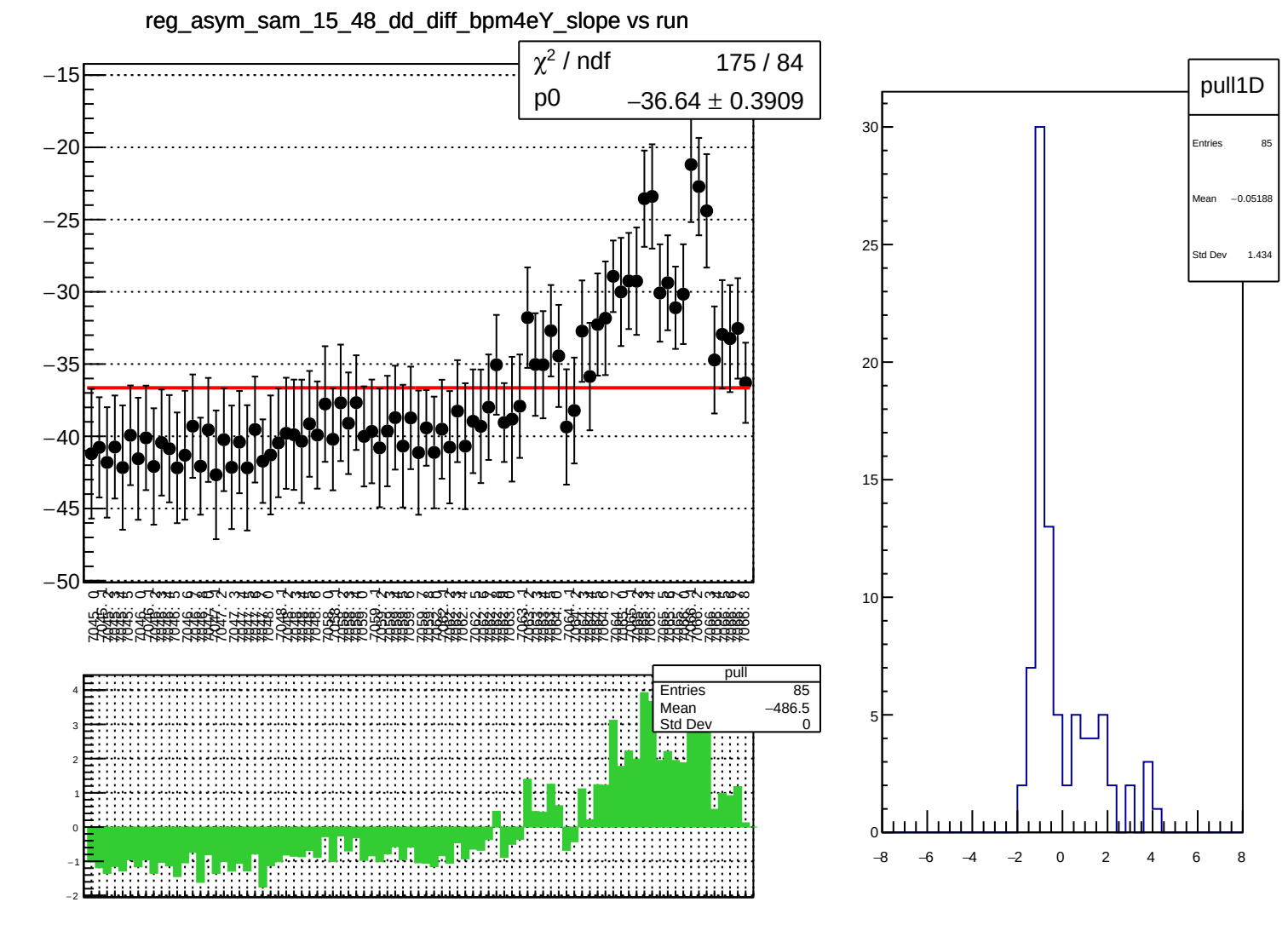

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.073 / 84
p0 0.5031± 0.02221
pull
Entries 85
Mean 4405
Std Dev 0
pull1D
Entries 85
Mean −0.0005034
Std Dev 0.2189

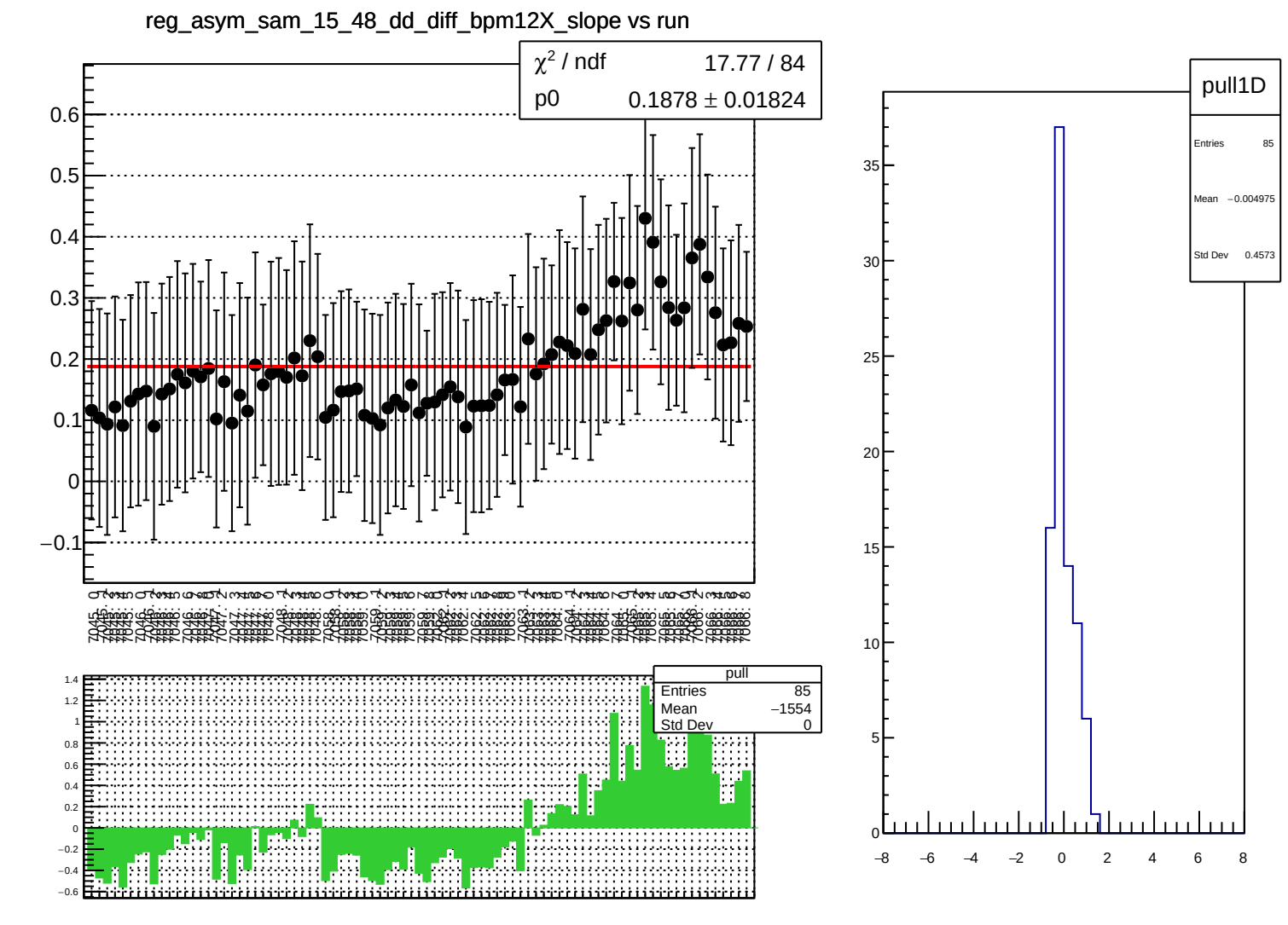

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 477.9 / 84
p0 17.76 ± 0.5469
pull
Entries 85
Mean −156.3
Std Dev 0
pull1D
Entries 85
Mean −0.318
Std Dev 2.165

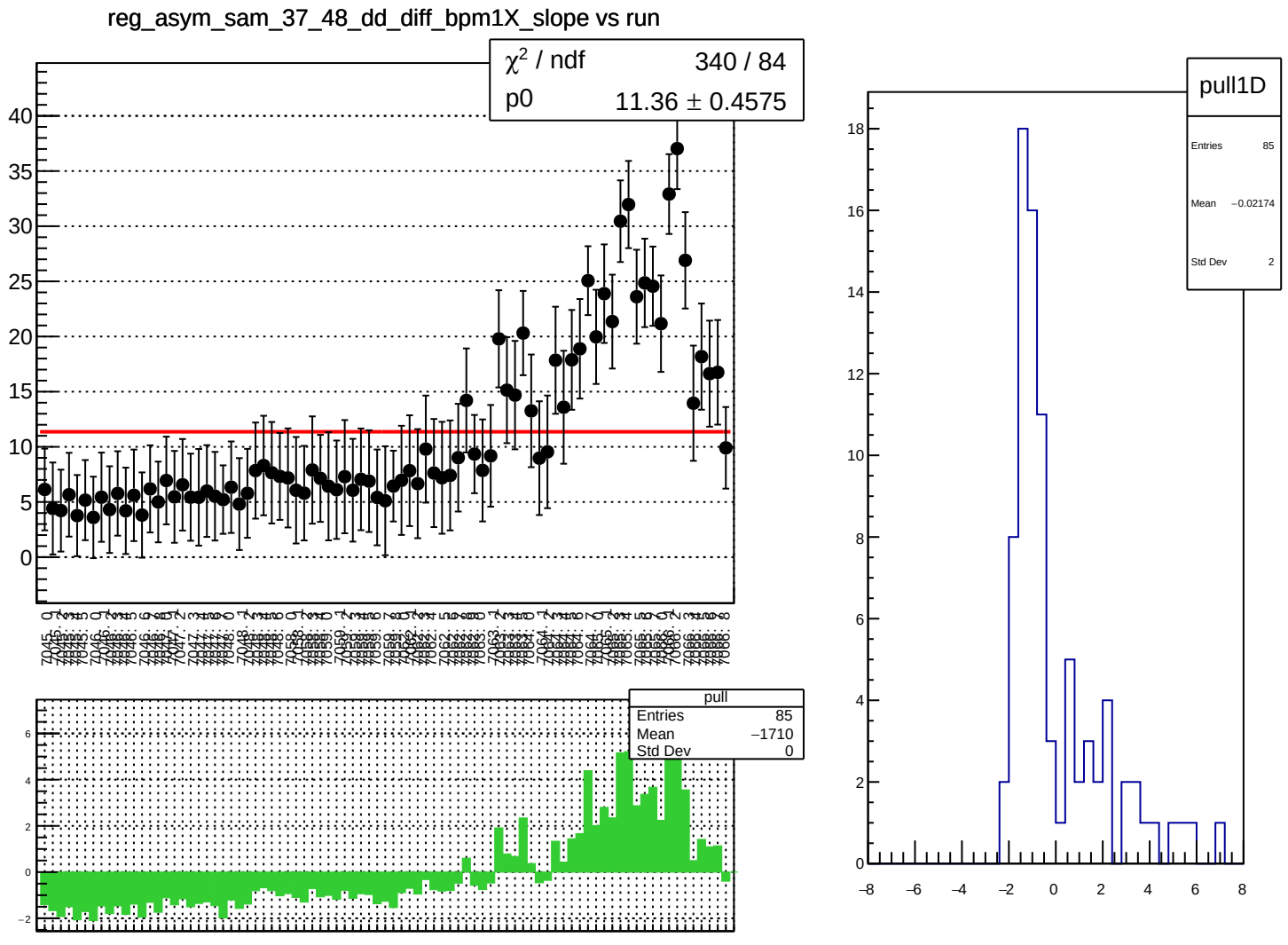

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 158.5 / 84
p0 3.963 ± 0.3667
pull
Entries 85
Mean −538.5
Std Dev 0

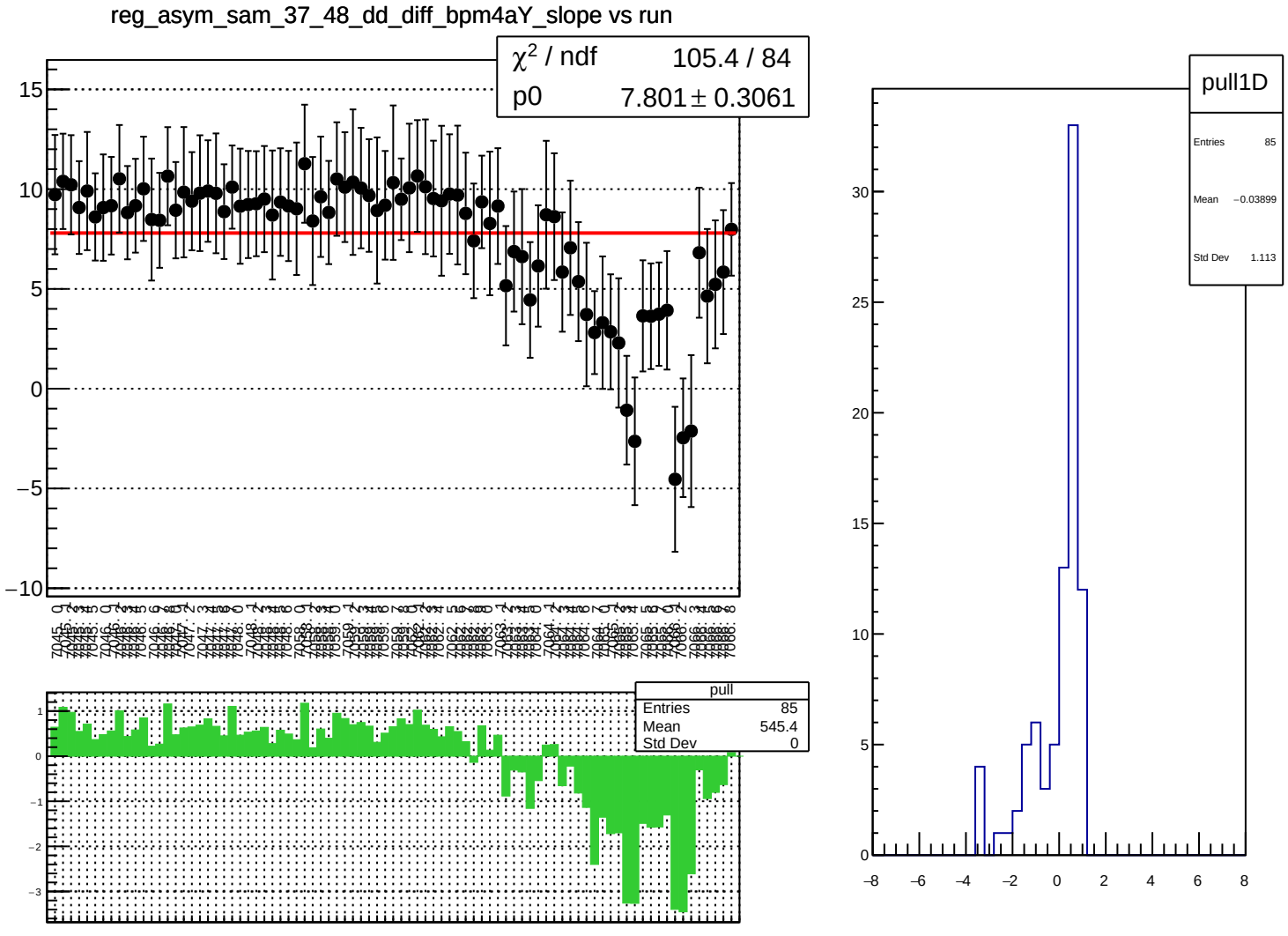

pull1D
Entries 85
Mean 0.0445
Std Dev 1.365

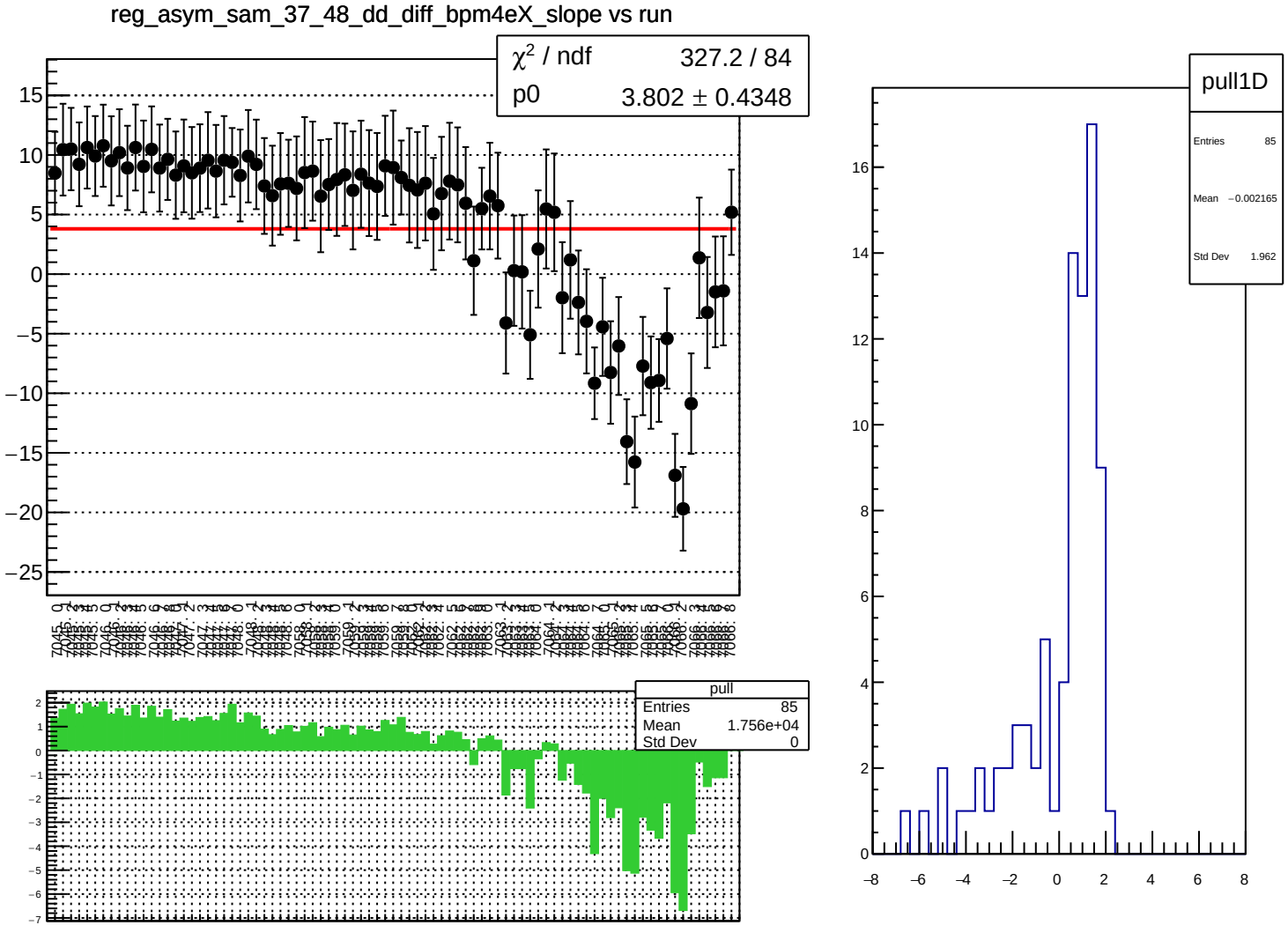

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 417.1 / 84
p0 36.96 ± 0.5218
pull
Entries 85
Mean −185.1
Std Dev 0
pull1D
Entries 85
Mean 0.1796
Std Dev 2.208

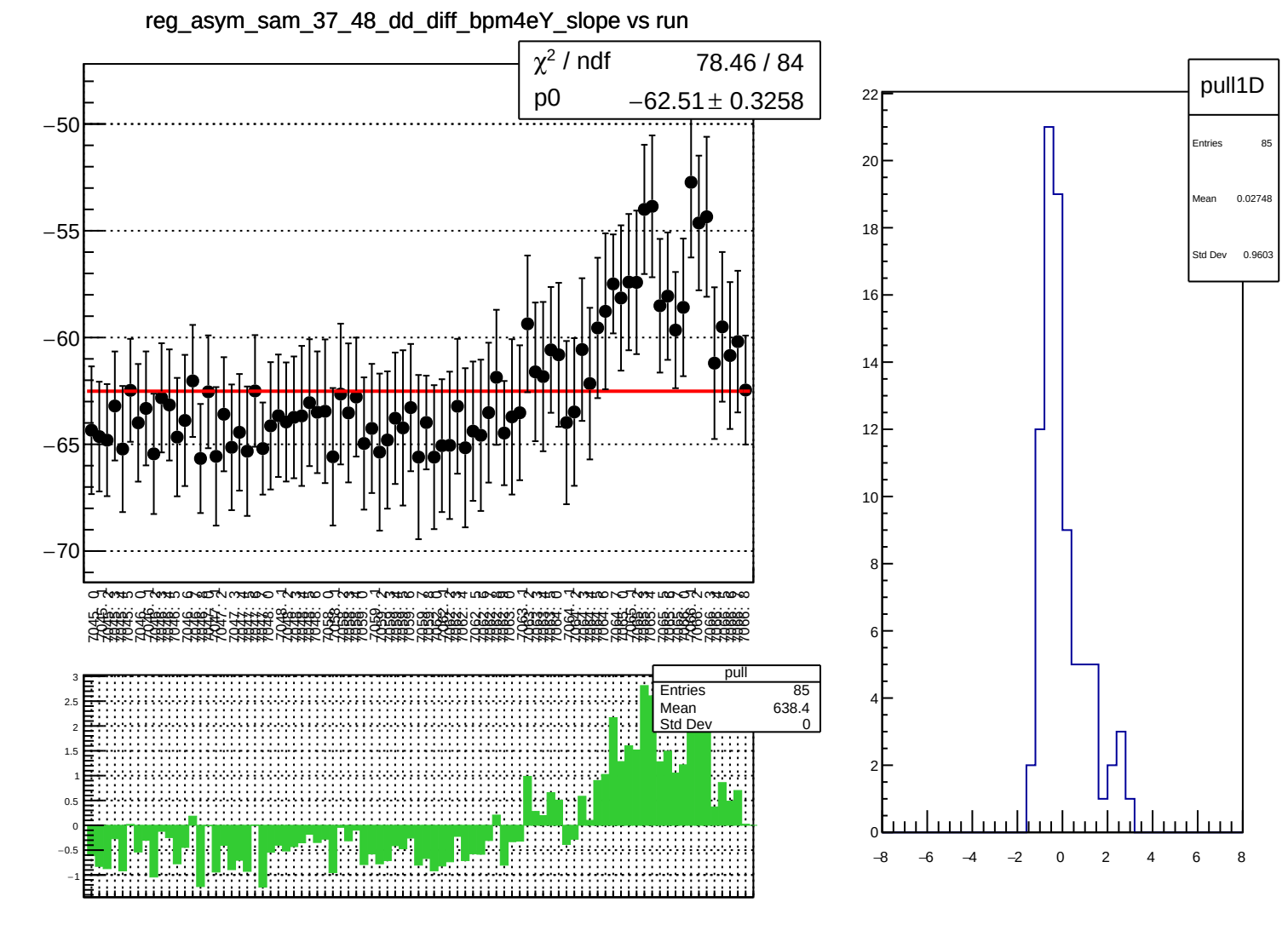

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 175 / 84
p0 −36.64 ± 0.3909
pull
Entries 85
Mean −486.5
Std Dev 0
pull1D
Entries 85
Mean −0.05188
Std Dev 1.434

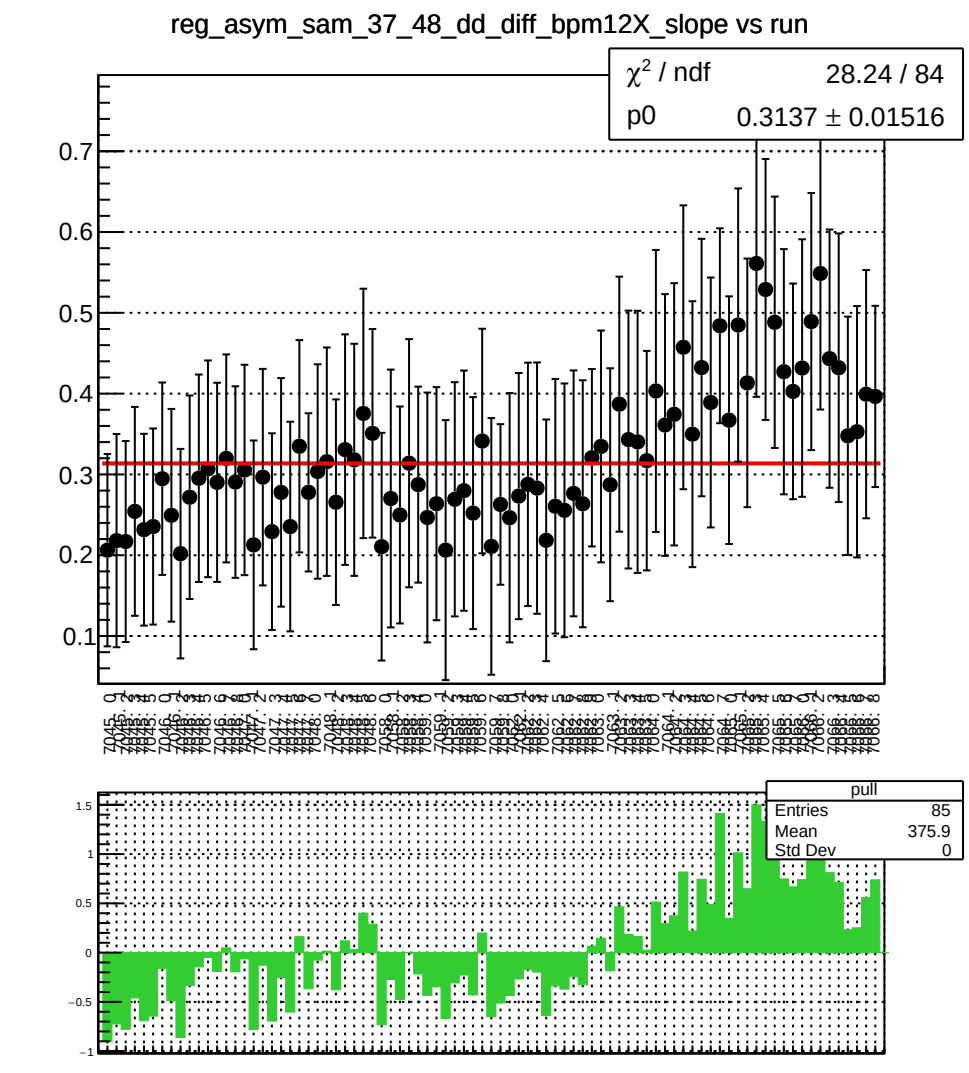

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.77 / 84
p0 0.1878 ± 0.01824
pull
Entries 85
Mean −1554
Std Dev 0
pull1D
Entries 85
Mean −0.004975
Std Dev 0.4573

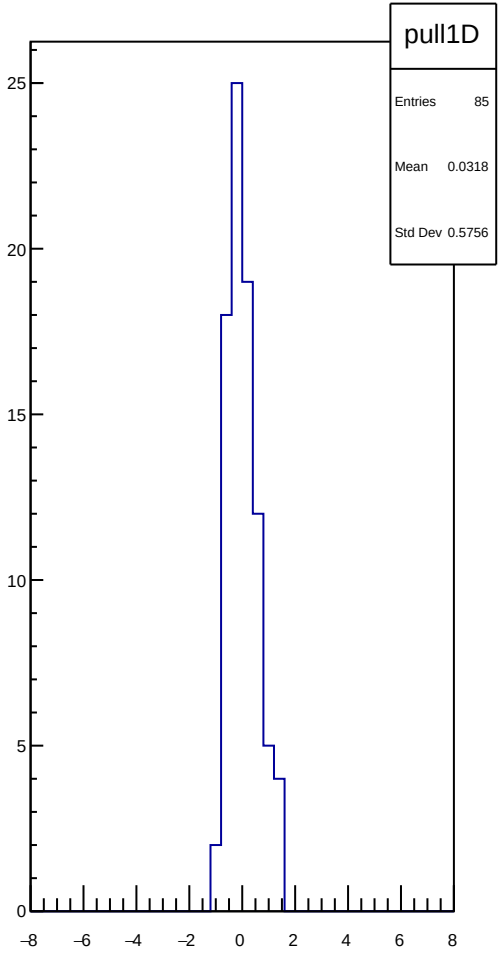

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 340 / 84
p0 11.36 ± 0.4575
pull
Entries 85
Mean −1710
Std Dev 0
pull1D
Entries 85
Mean −0.02174
Std Dev 2

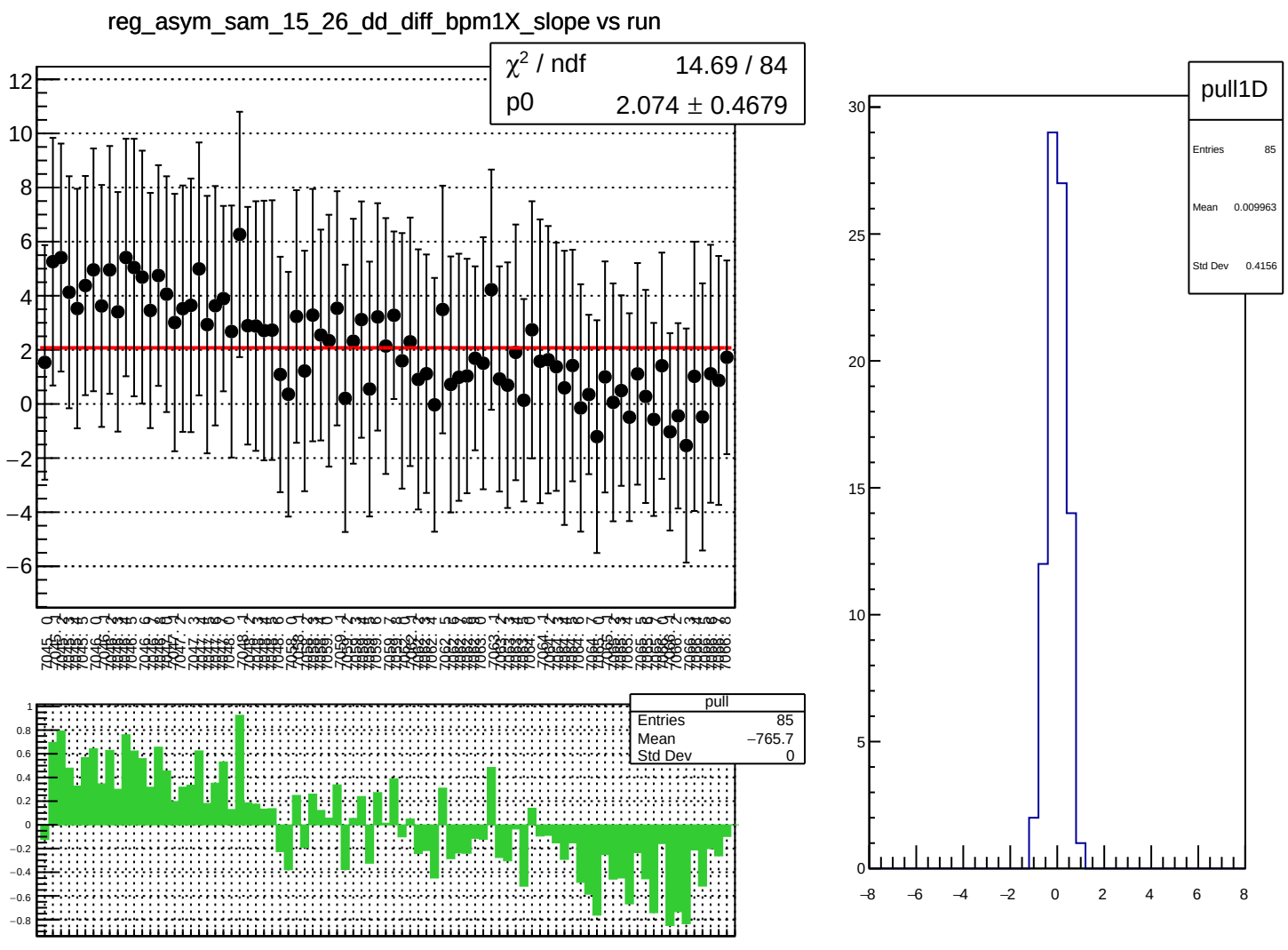

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 105.4 / 84
p0 7.801 ± 0.3061
pull
Entries 85
Mean 545.4
Std Dev 0
pull1D
Entries 85
Mean −0.03899
Std Dev 1.113

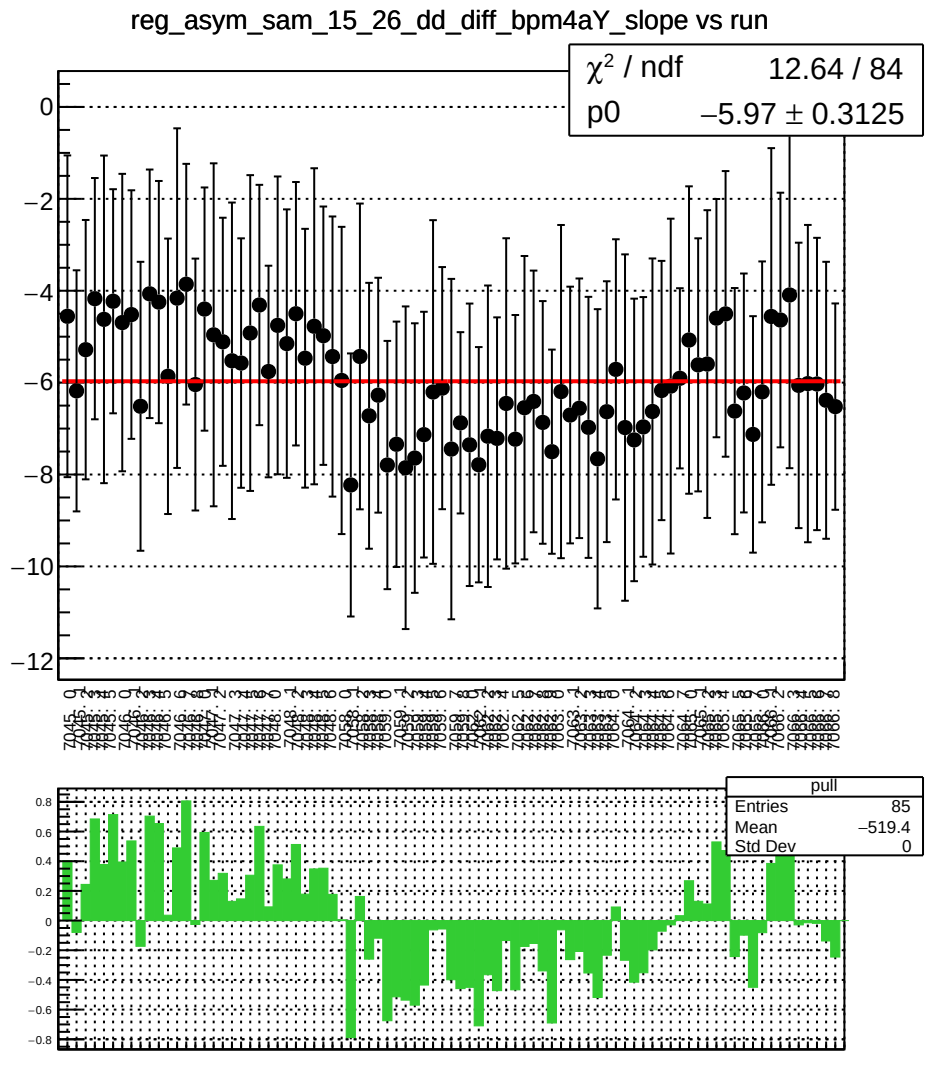

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 327.2 / 84
p0 3.802 ± 0.4348
pull
Entries 85
Mean 1.756e+04
Std Dev 0
pull1D
Entries 85
Mean −0.002165
Std Dev 1.962

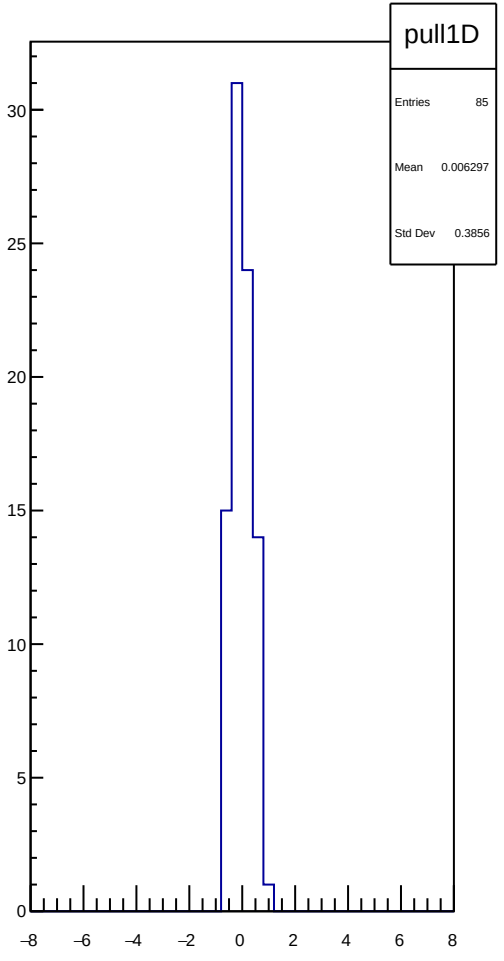

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.46 / 84
p0 −62.51 ± 0.3258
pull
Entries 85
Mean 638.4
Std Dev 0
pull1D
Entries 85
Mean 0.02748
Std Dev 0.9603

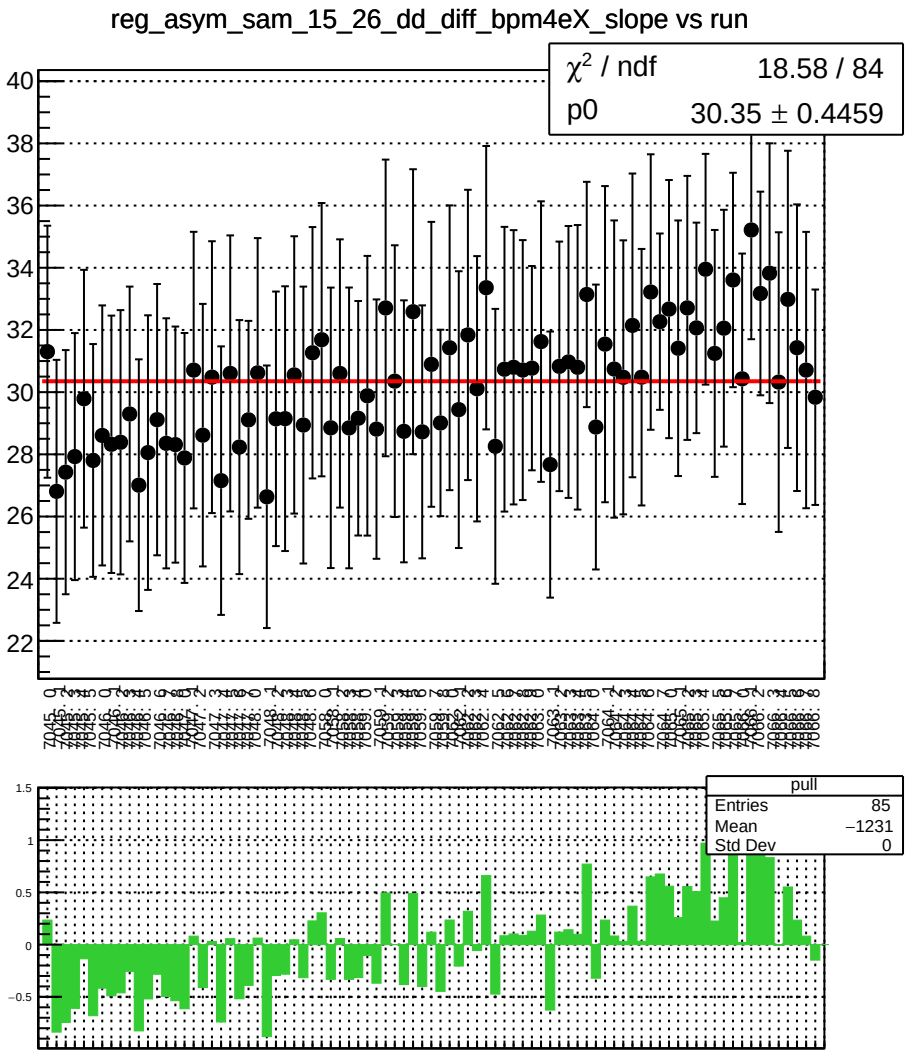

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 28.24 / 84
p0 0.3137 ± 0.01516
pull
Entries 85
Mean 375.9
Std Dev 0

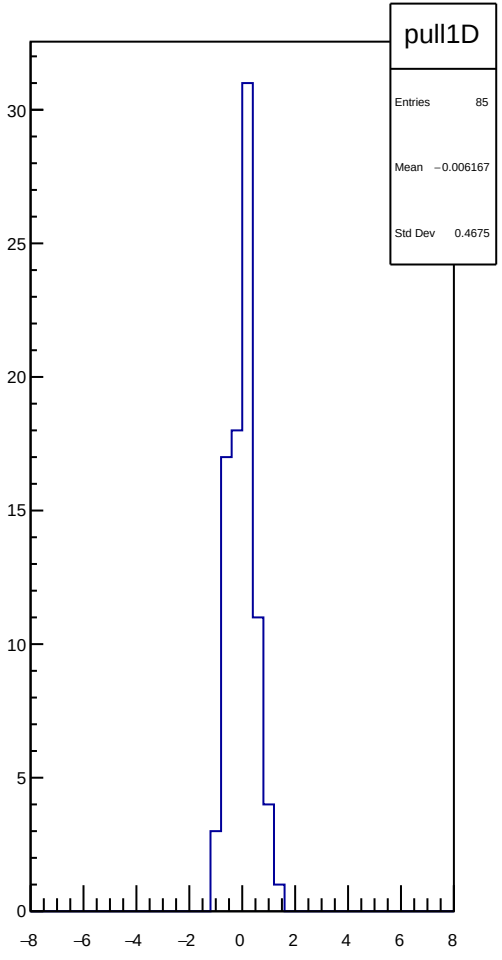

pull1D
Entries 85
Mean 0.0318
Std Dev 0.5756

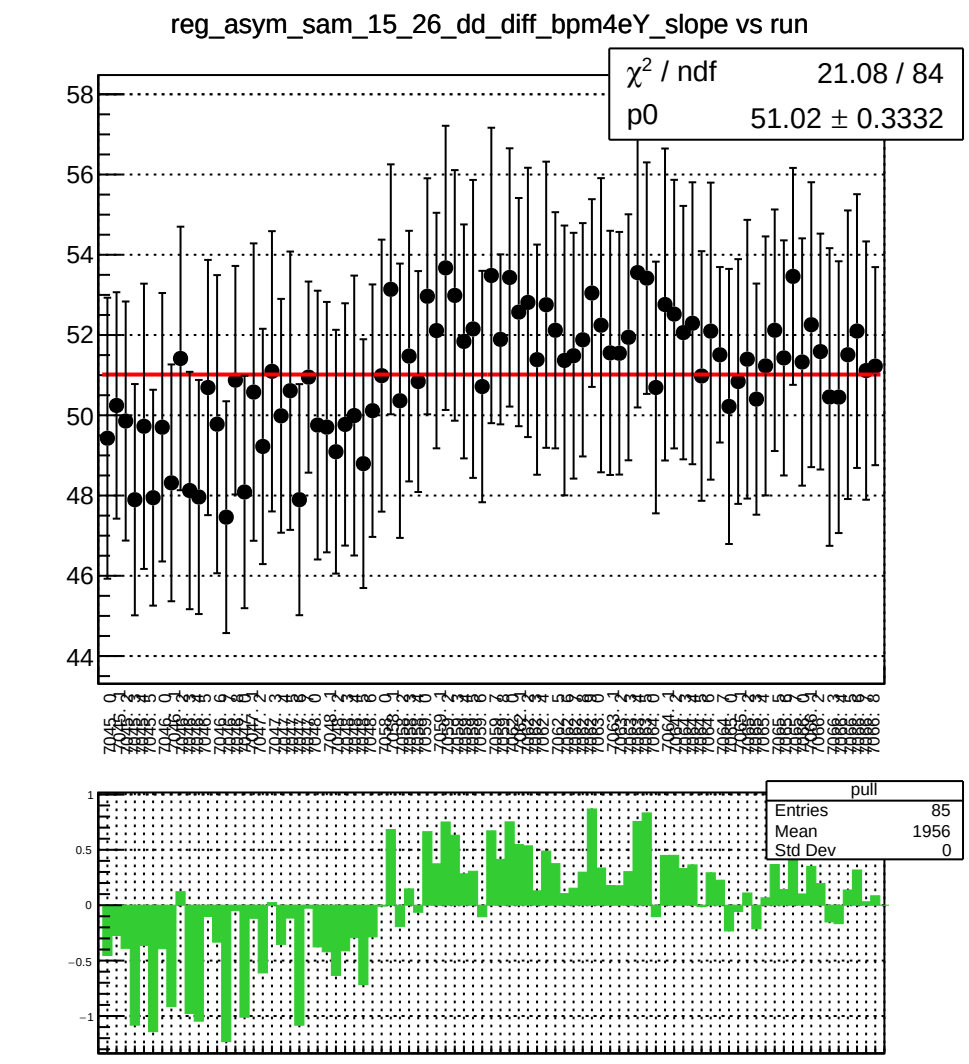

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.69 / 84
p0 2.074 ± 0.4679
pull
Entries 85
Mean −765.7
Std Dev 0
pull1D
Entries 85
Mean 0.009963
Std Dev 0.4156

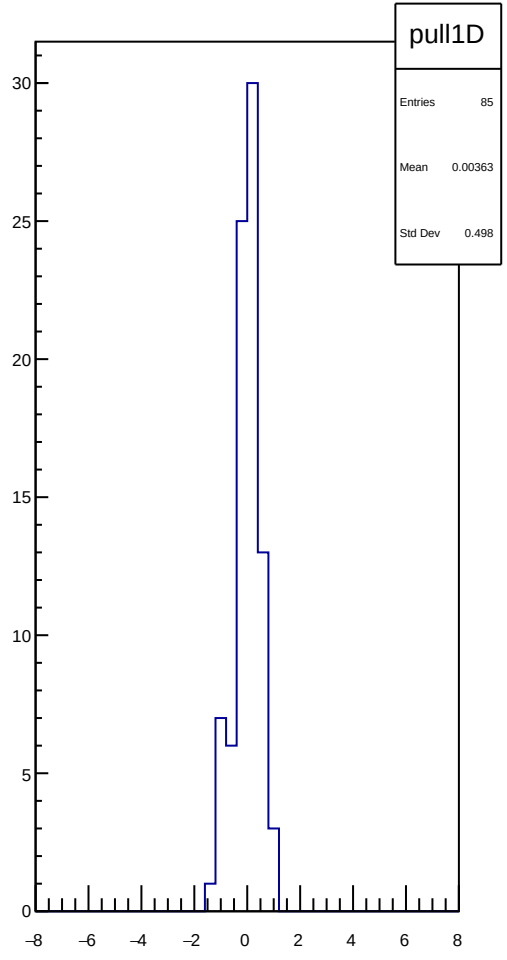

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.64 / 84
p0 −5.97 ± 0.3125
pull
Entries 85
Mean −519.4
Std Dev 0

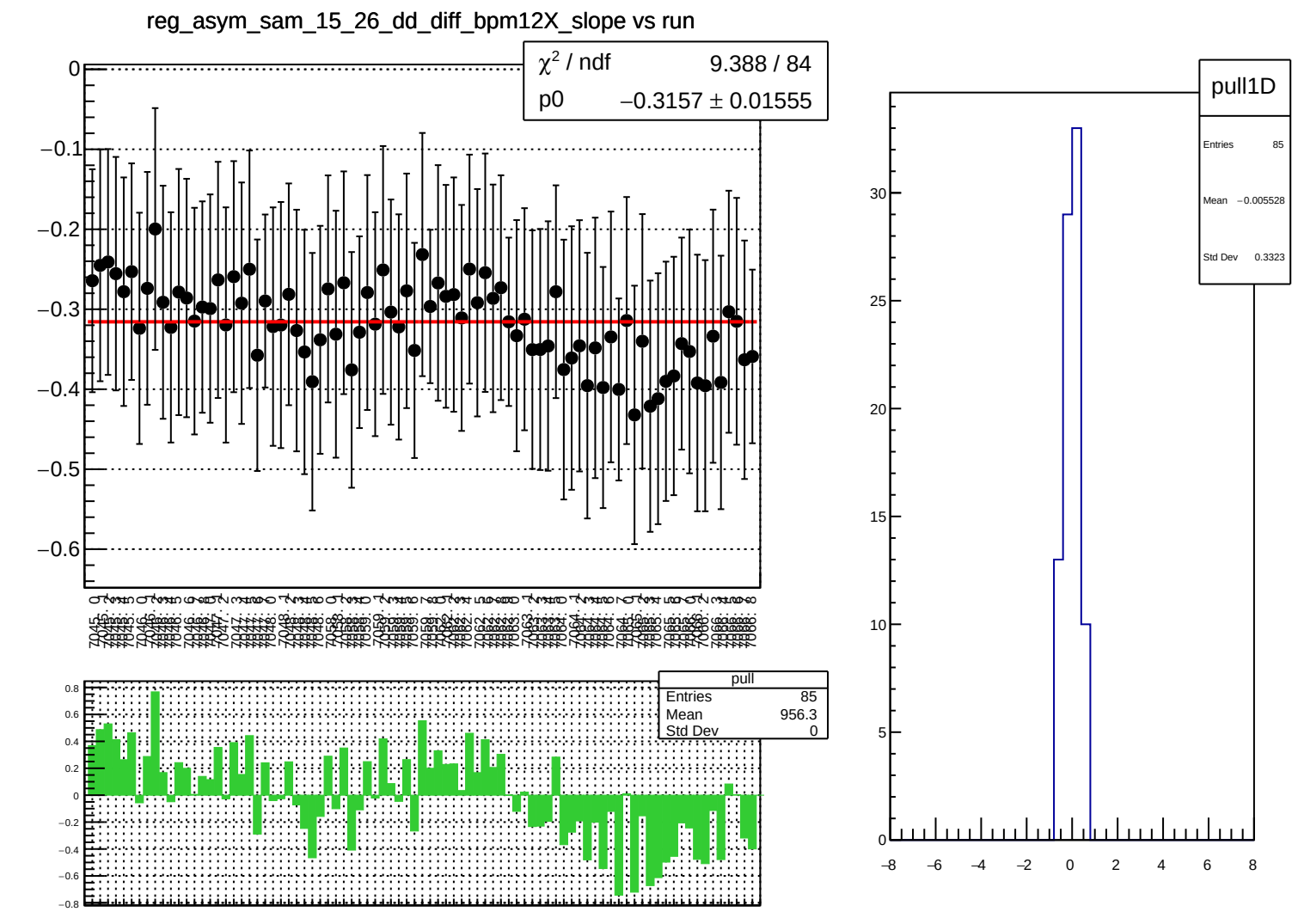

pull1D
Entries 85
Mean 0.006297
Std Dev 0.3856

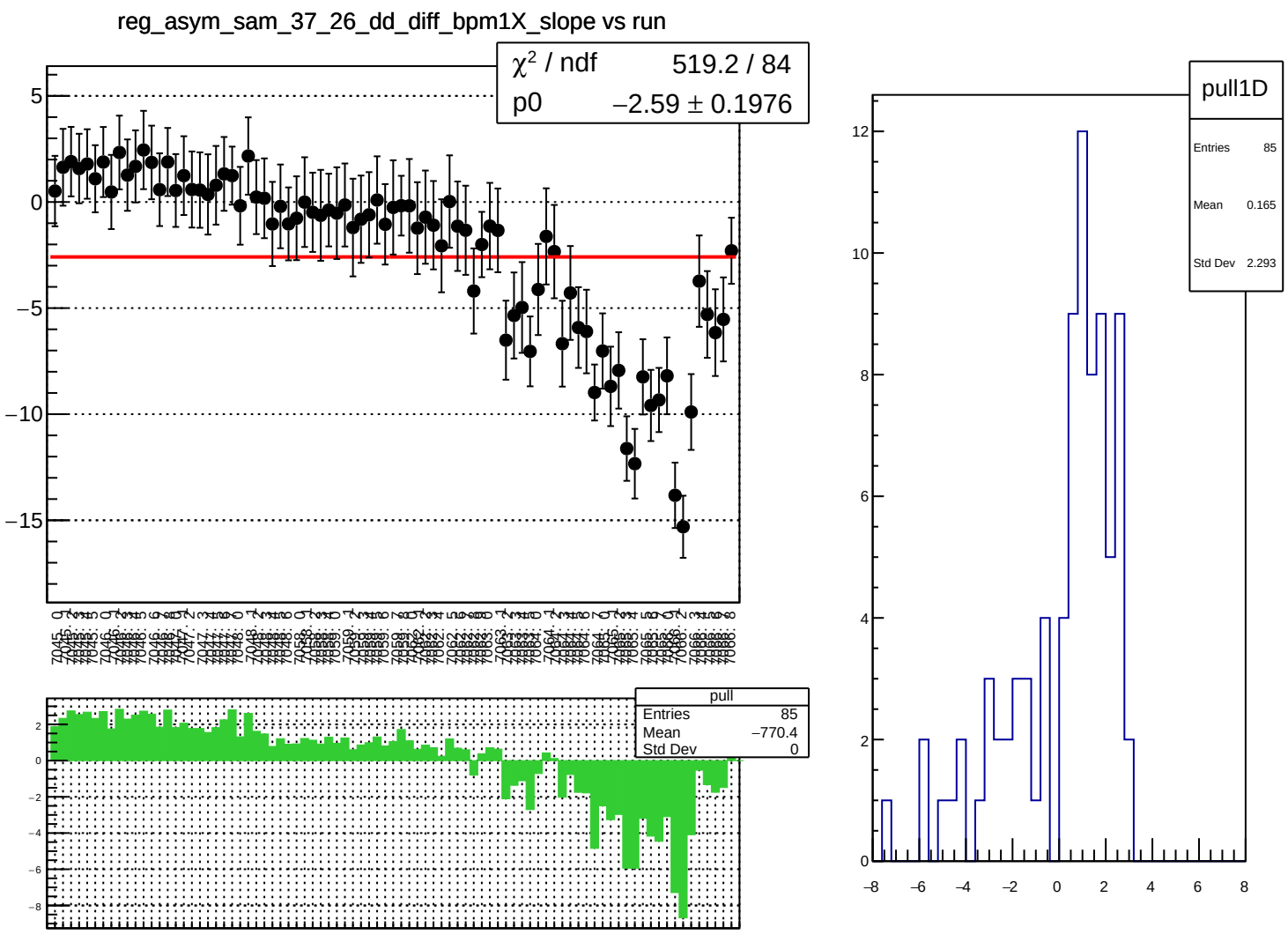

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.58 / 84
p0 30.35 ± 0.4459
pull
Entries 85
Mean −1231
Std Dev 0

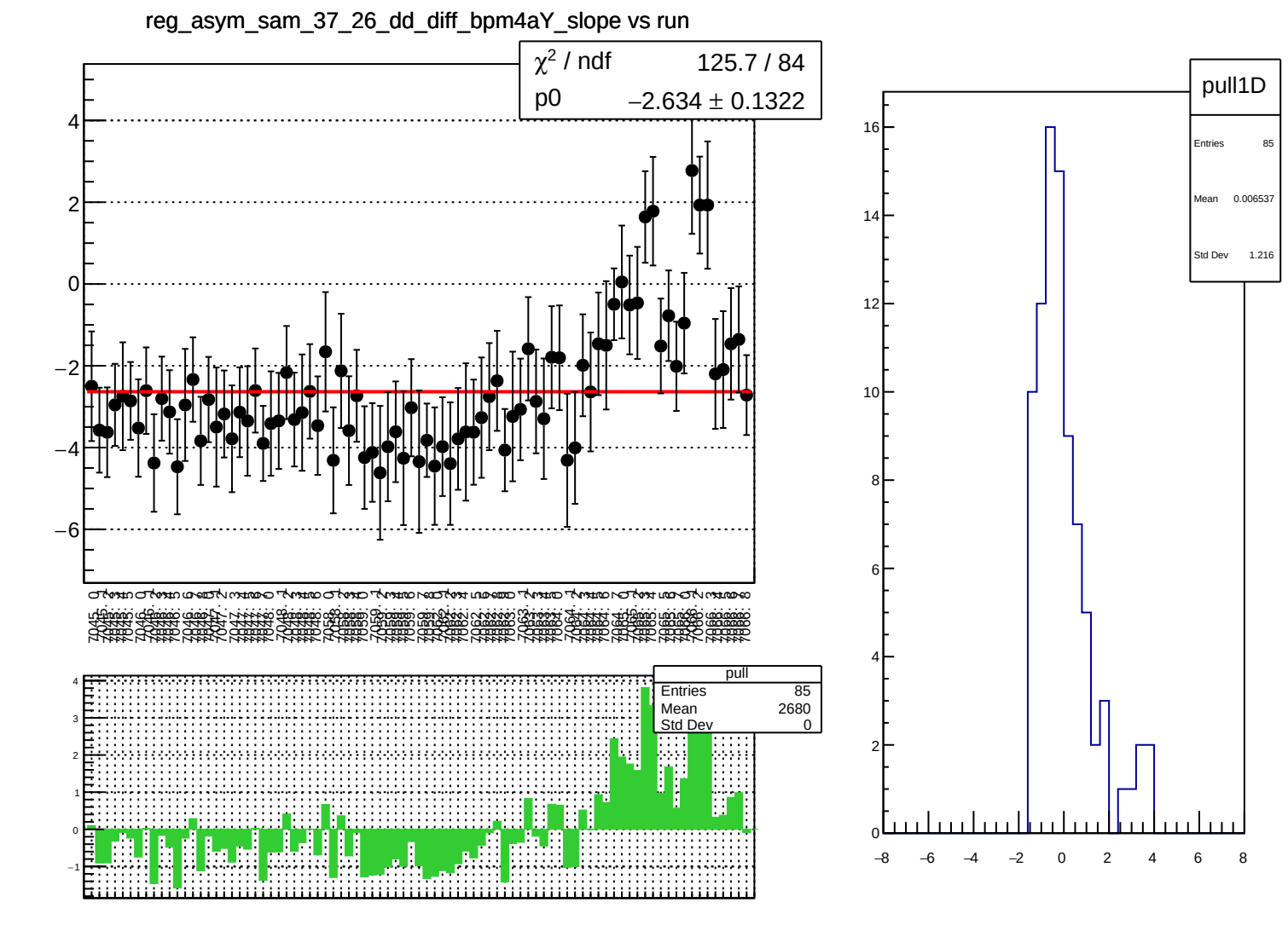

pull1D
Entries 85
Mean −0.006167
Std Dev 0.4675

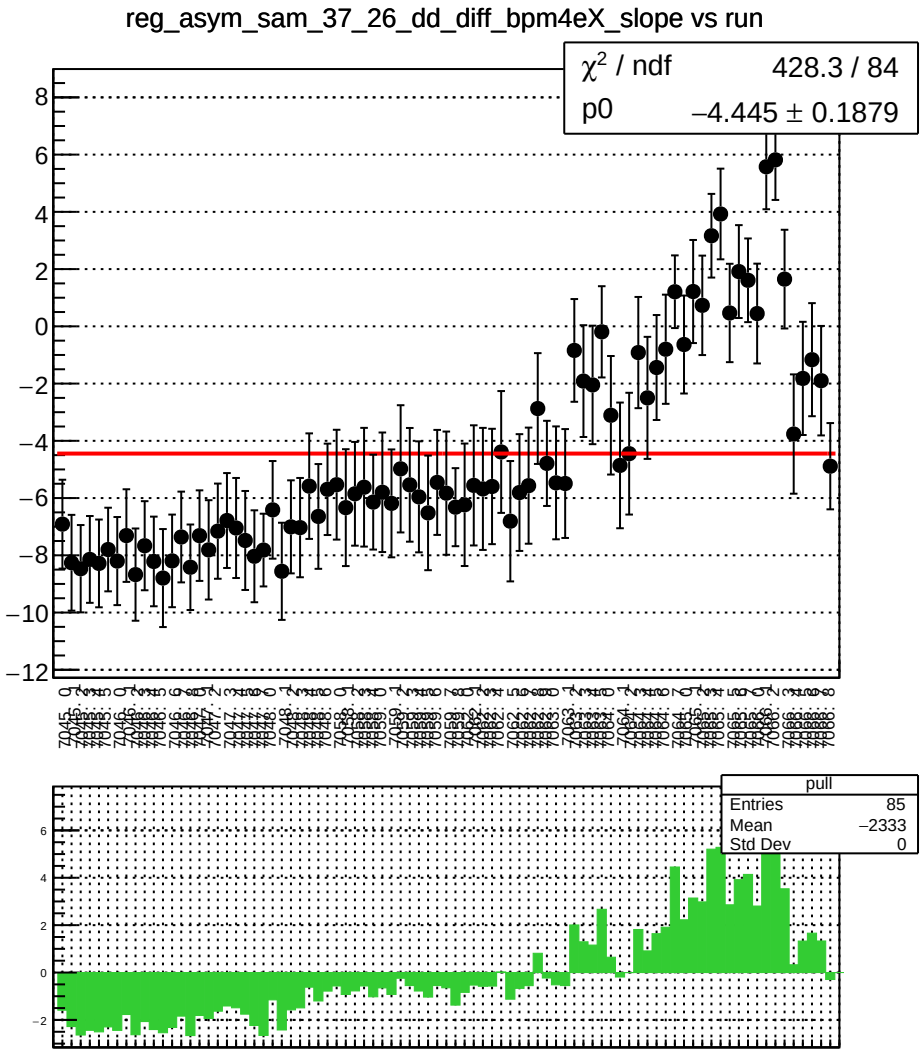

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.08 / 84
p0 51.02 ± 0.3332
pull
Entries 85
Mean 1956
Std Dev 0

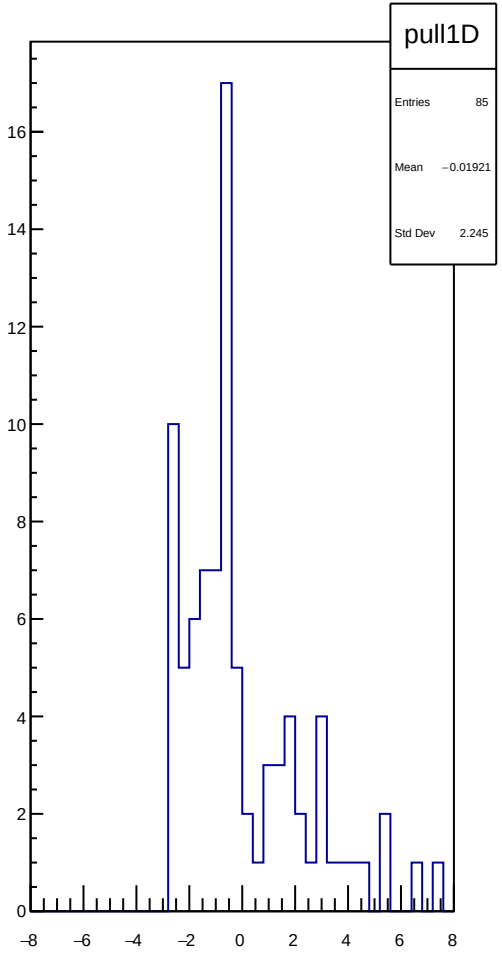

pull1D
Entries 85
Mean 0.00363
Std Dev 0.498

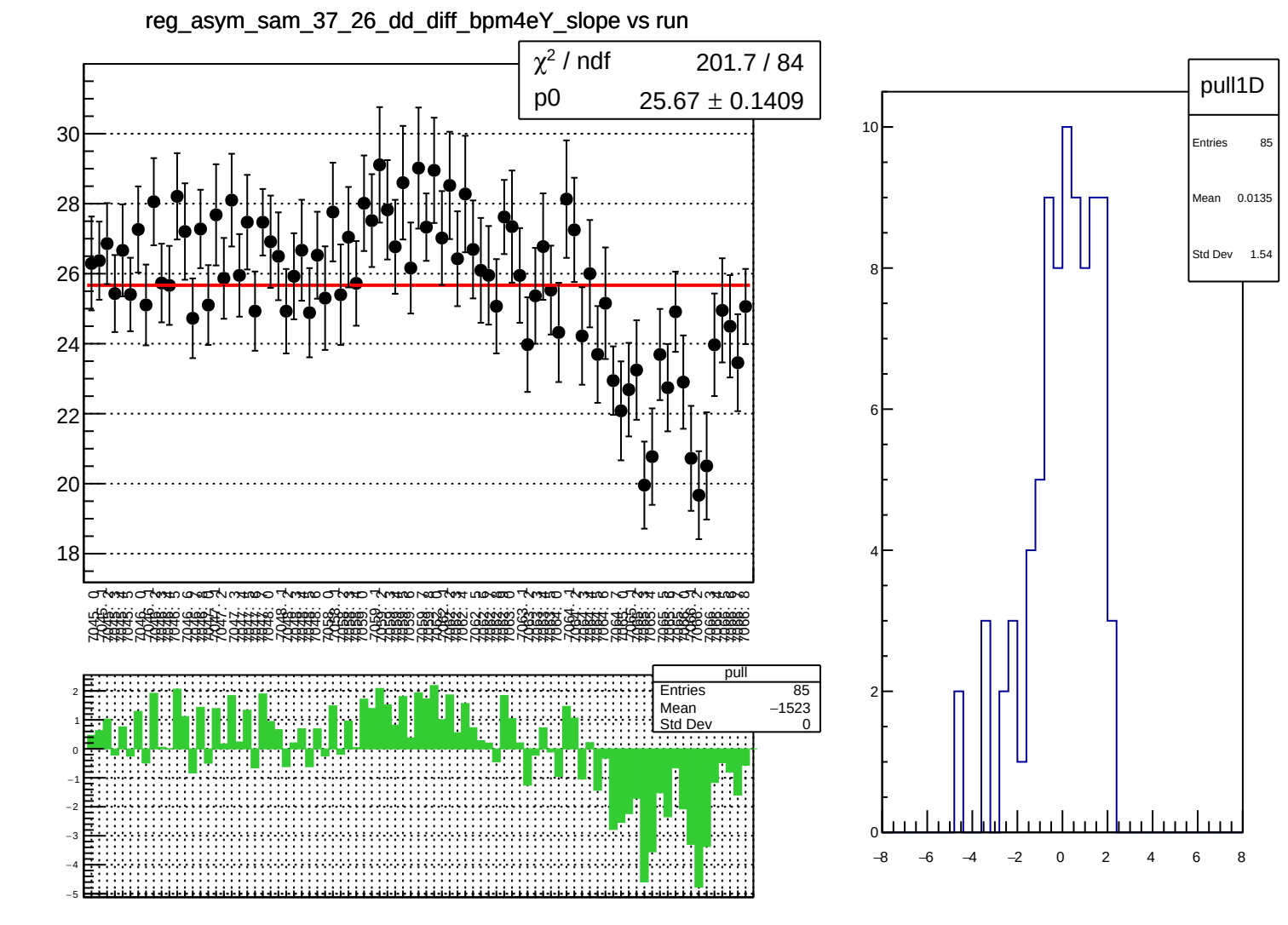

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.388 / 84
p0 −0.3157 ± 0.01555
pull
Entries 85
Mean 956.3
Std Dev 0
pull1D
Entries 85
Mean −0.005528
Std Dev 0.3323

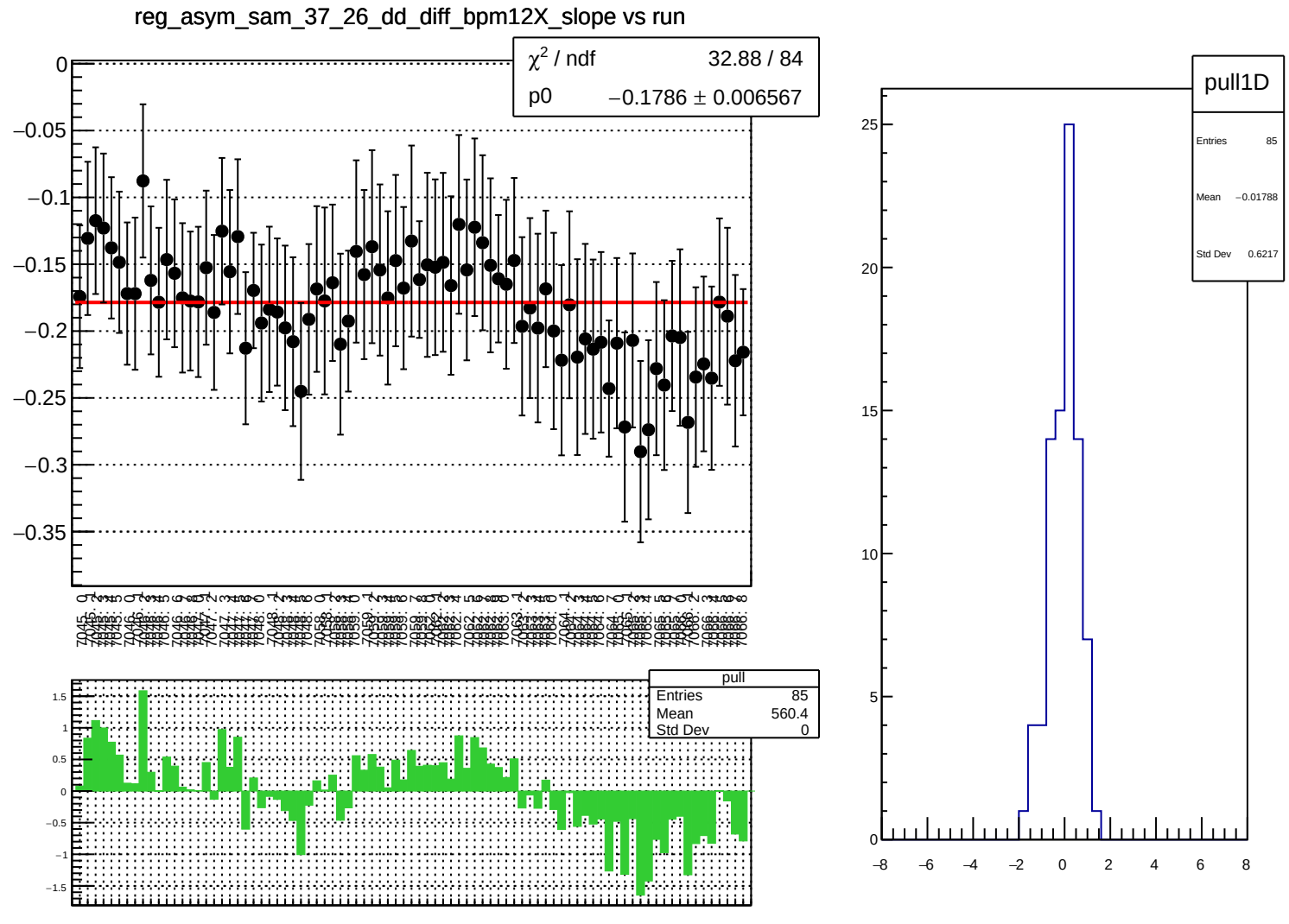

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 519.2 / 84
p0 −2.59 ± 0.1976
pull
Entries 85
Mean −770.4
Std Dev 0
pull1D
Entries 85
Mean 0.165
Std Dev 2.293

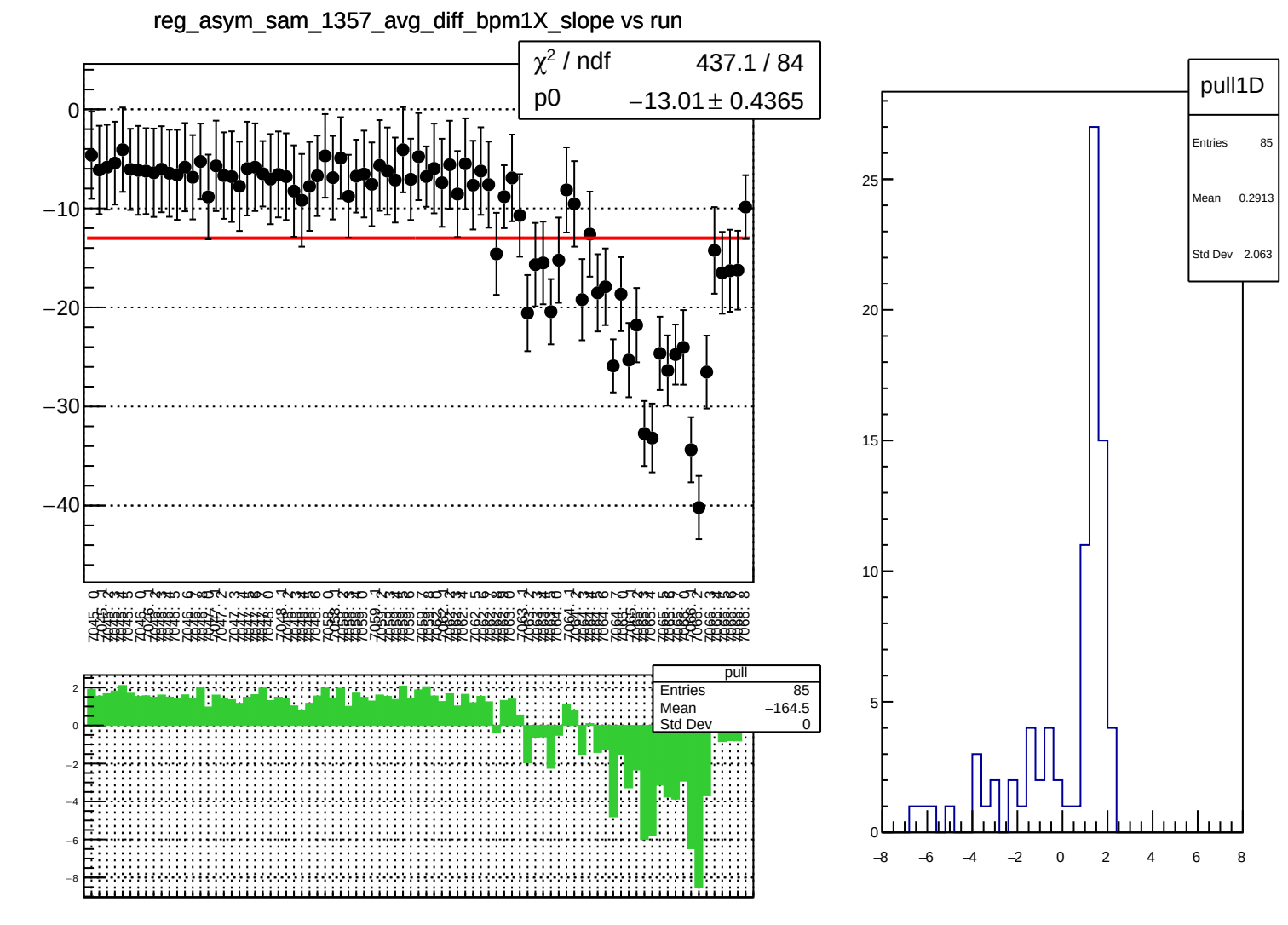

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 125.7 / 84
p0 −2.634 ± 0.1322
pull
Entries 85
Mean 2680
Std Dev 0
pull1D
Entries 85
Mean 0.006537
Std Dev 1.216

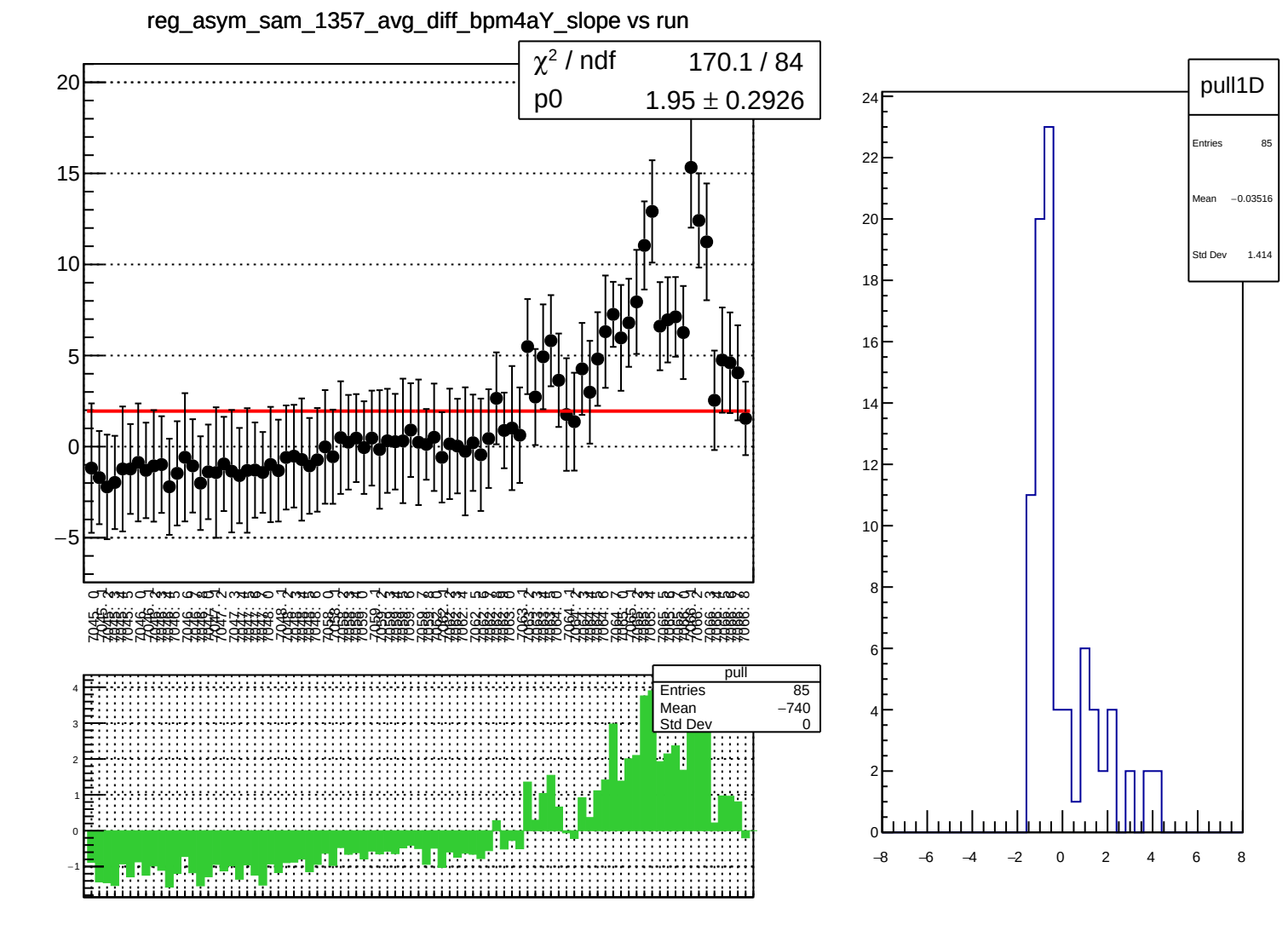

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 428.3 / 84
p0 −4.445 ± 0.1879
pull
Entries 85
Mean −2333
Std Dev 0

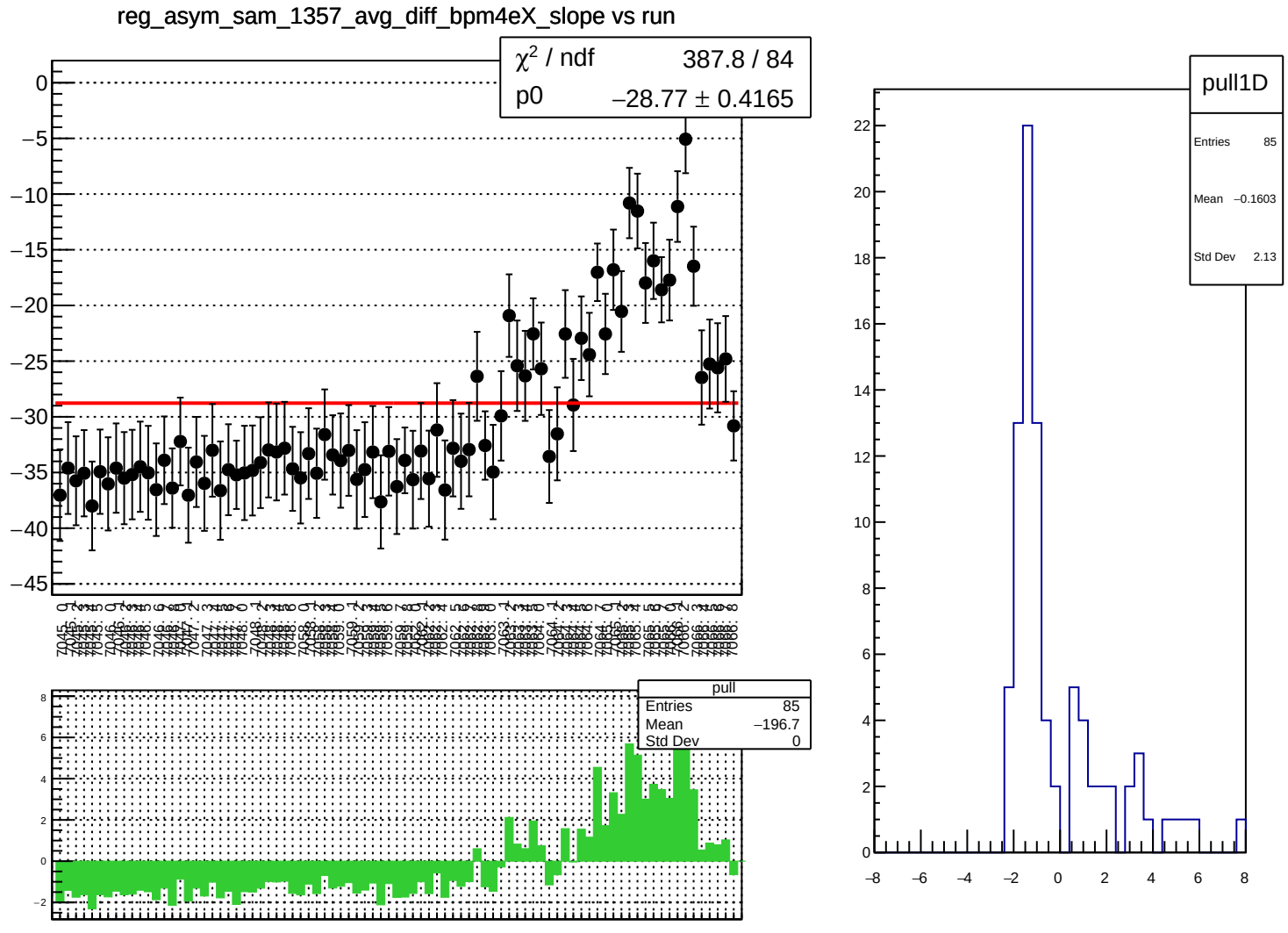

pull1D
Entries 85
Mean −0.01921
Std Dev 2.245

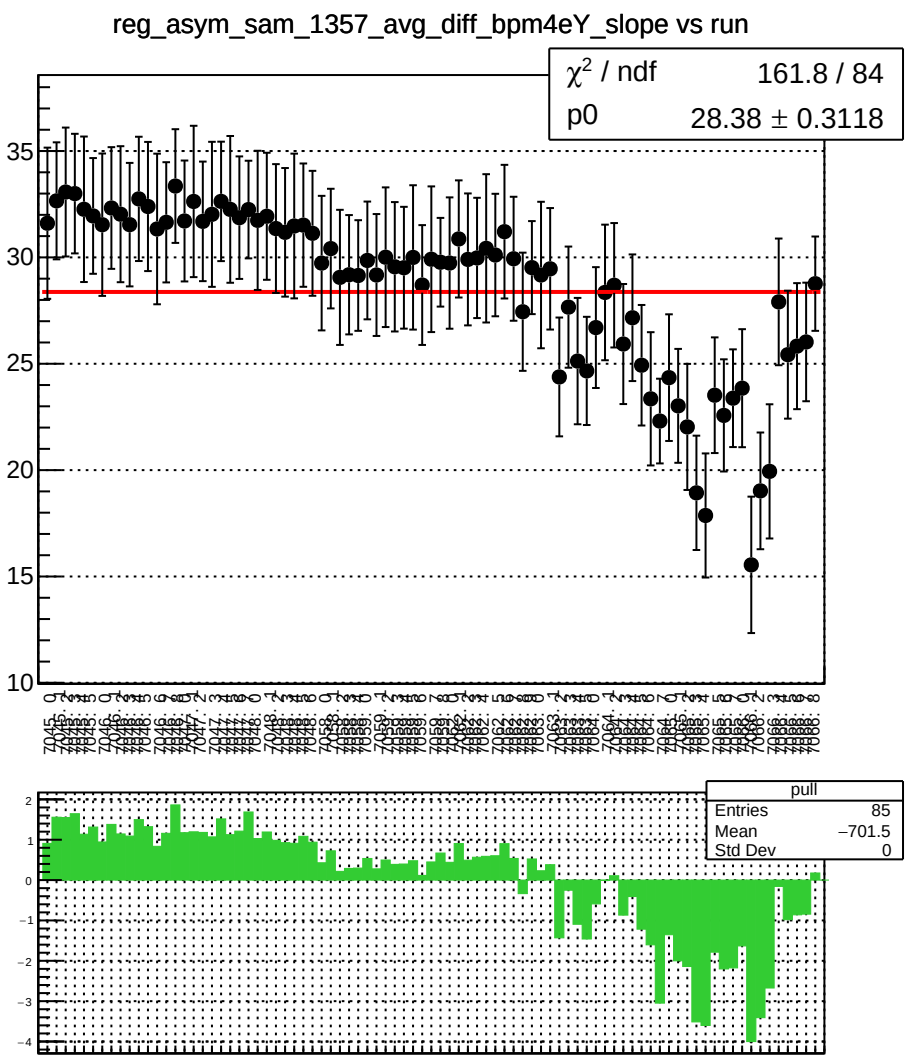

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 201.7 / 84
p0 25.67 ± 0.1409
pull
Entries 85
Mean −1523
Std Dev 0
pull1D
Entries 85
Mean 0.0135
Std Dev 1.54

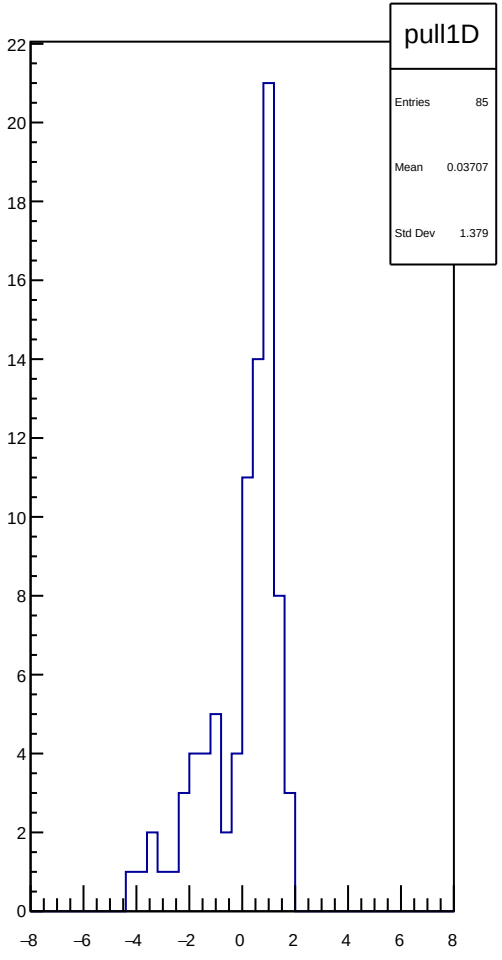

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 32.88 / 84
p0 −0.1786 ± 0.006567
pull
Entries 85
Mean 560.4
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.6217

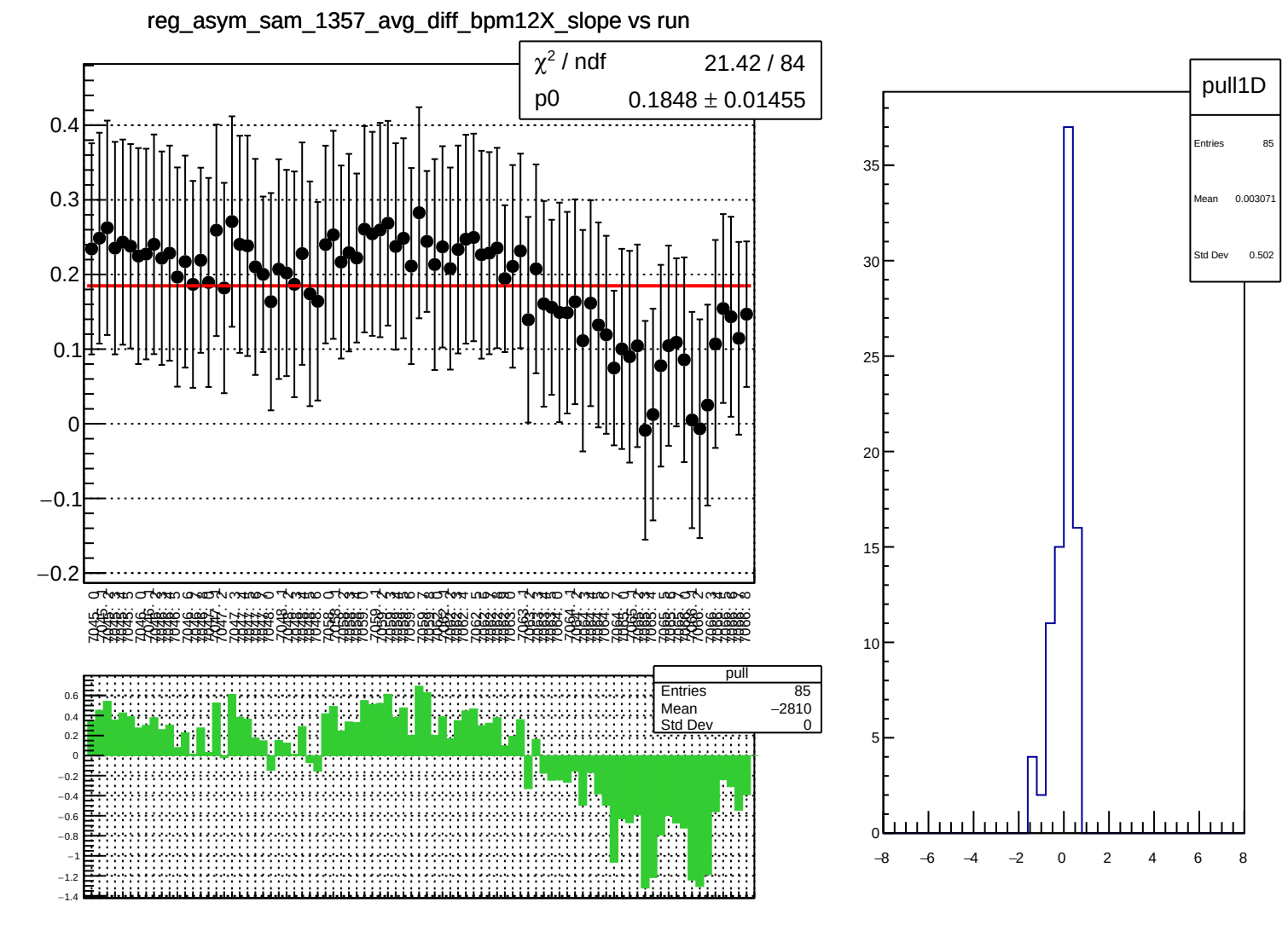

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 437.1 / 84
p0 −13.01 ± 0.4365
0
−10
−20
−30
−40
pull
Entries 85
Mean −164.5
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 85
Mean 0.2913
Std Dev 2.063
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

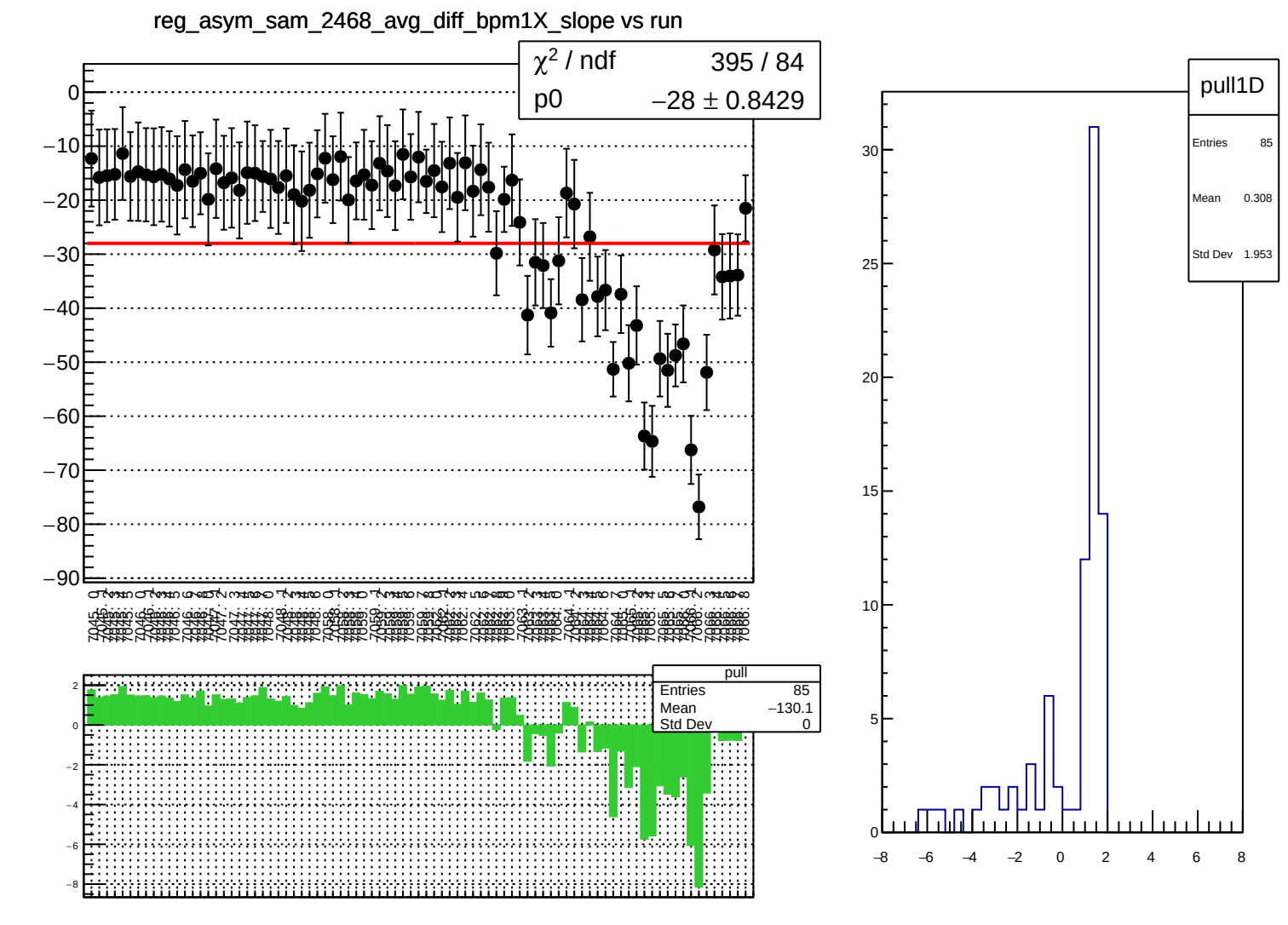

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 170.1 / 84
p0 1.95 ± 0.2926
pull
Entries 85
Mean −740
Std Dev 0
pull1D
Entries 85
Mean −0.03516
Std Dev 1.414

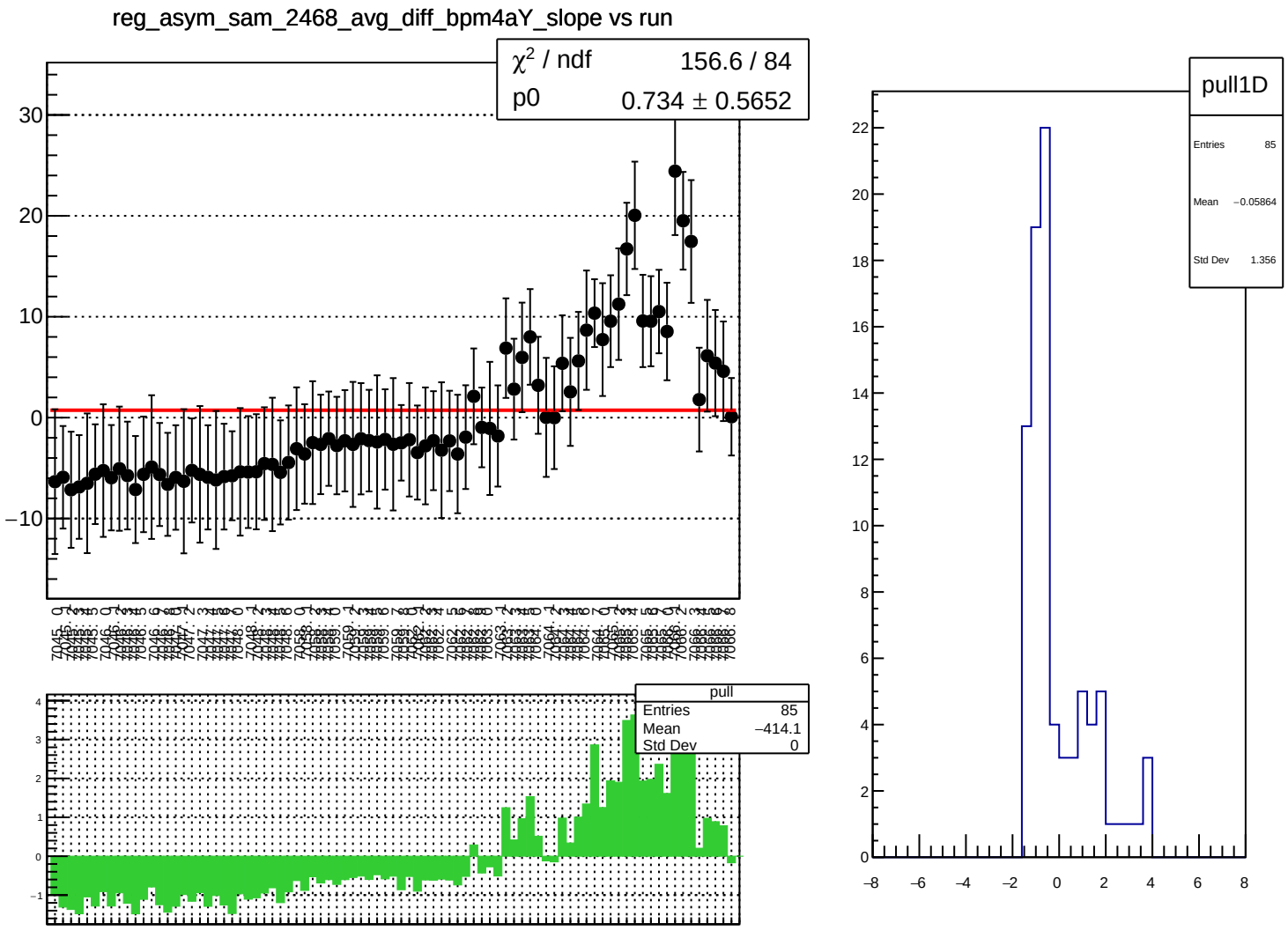

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 387.8 / 84
p0 −28.77 ± 0.4165
pull
Entries 85
Mean −196.7
Std Dev 0
pull1D
Entries 85
Mean −0.1603
Std Dev 2.13

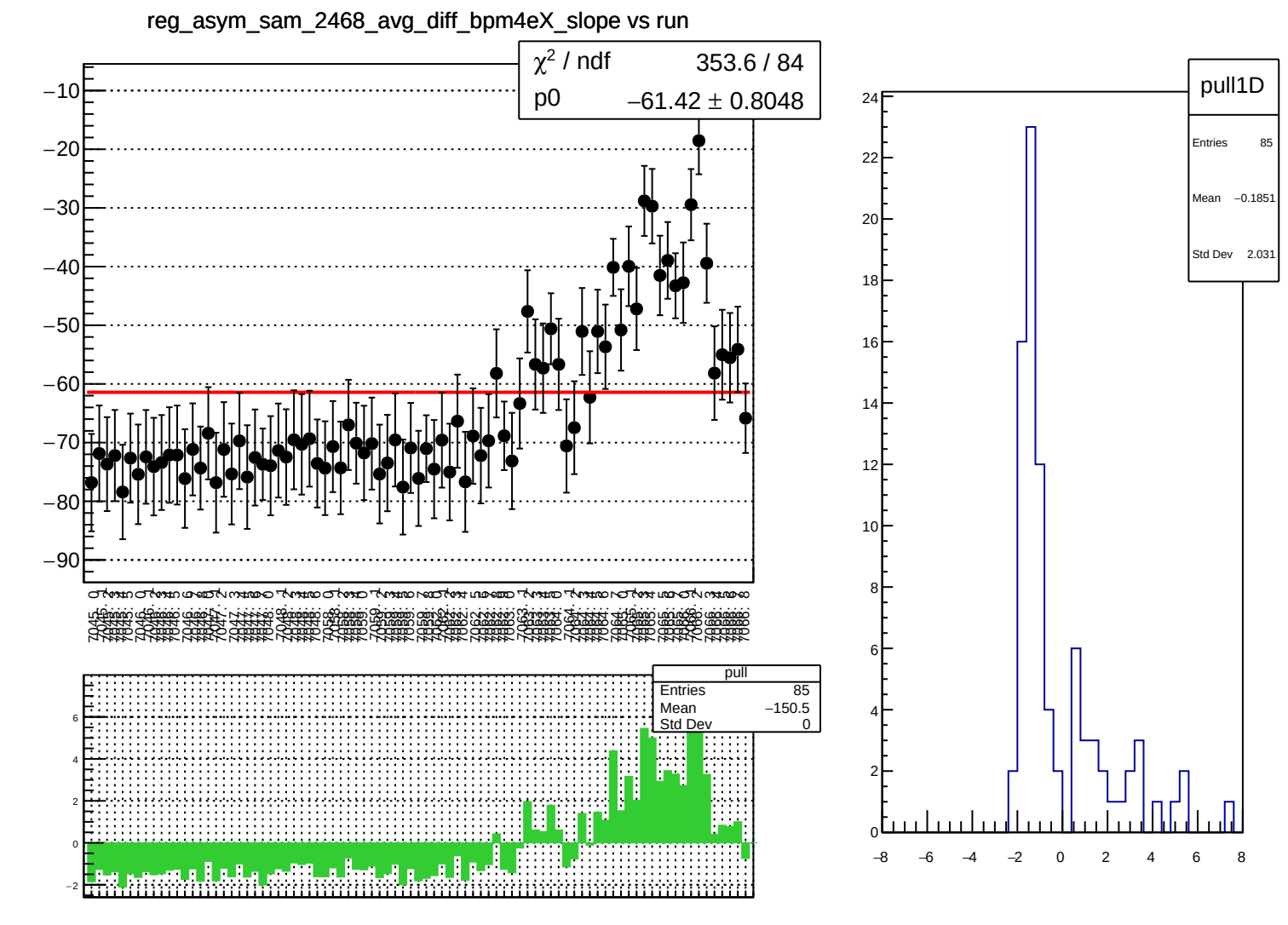

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 161.8 / 84
p0 28.38 ± 0.3118
pull
Entries 85
Mean −701.5
Std Dev 0

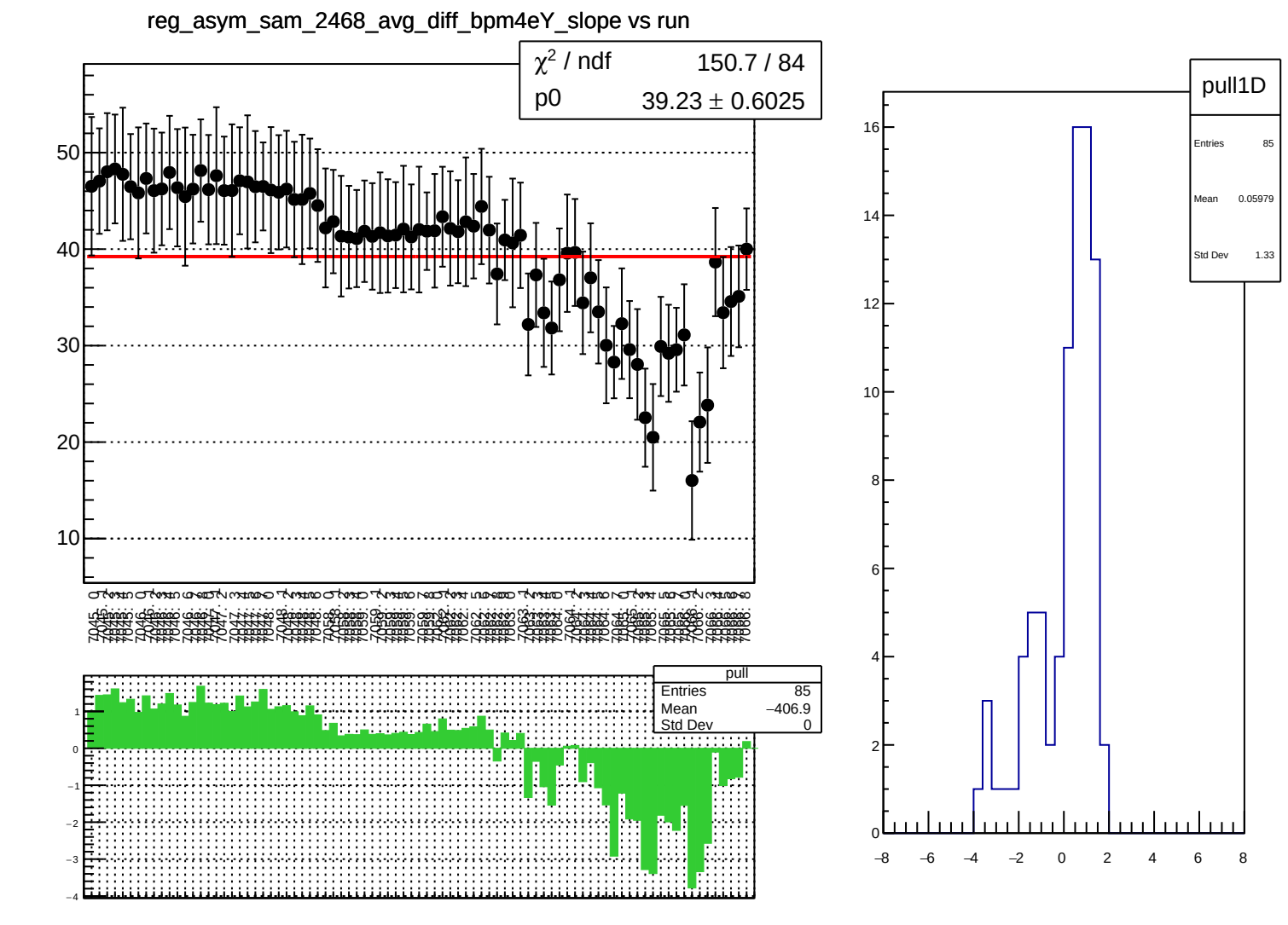

pull1D
Entries 85
Mean 0.03707
Std Dev 1.379

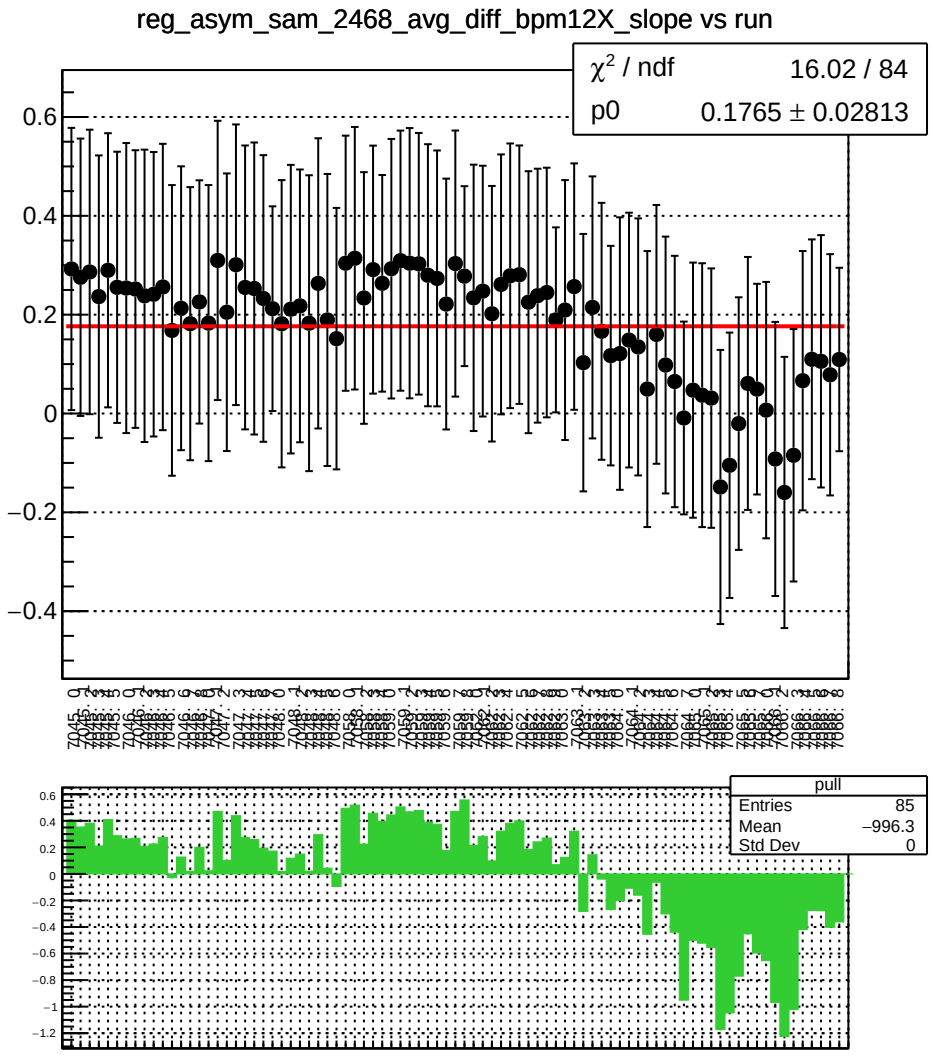

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 21.42 / 84
p0 0.1848 ± 0.01455
pull
Entries 85
Mean −2810
Std Dev 0
pull1D
Entries 85
Mean 0.003071
Std Dev 0.502

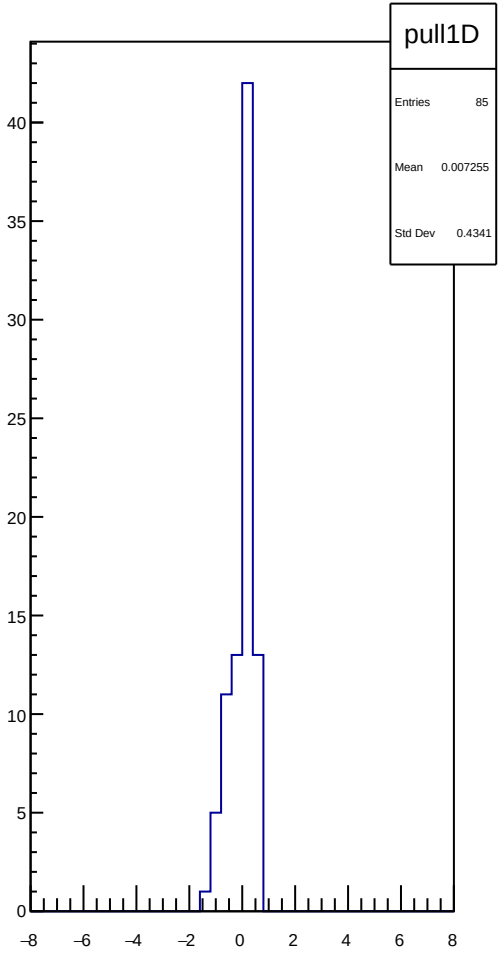

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 395 / 84
p0 −28 ± 0.8429
pull
Entries 85
Mean −130.1
Std Dev 0
pull1D
Entries 85
Mean 0.308
Std Dev 1.953

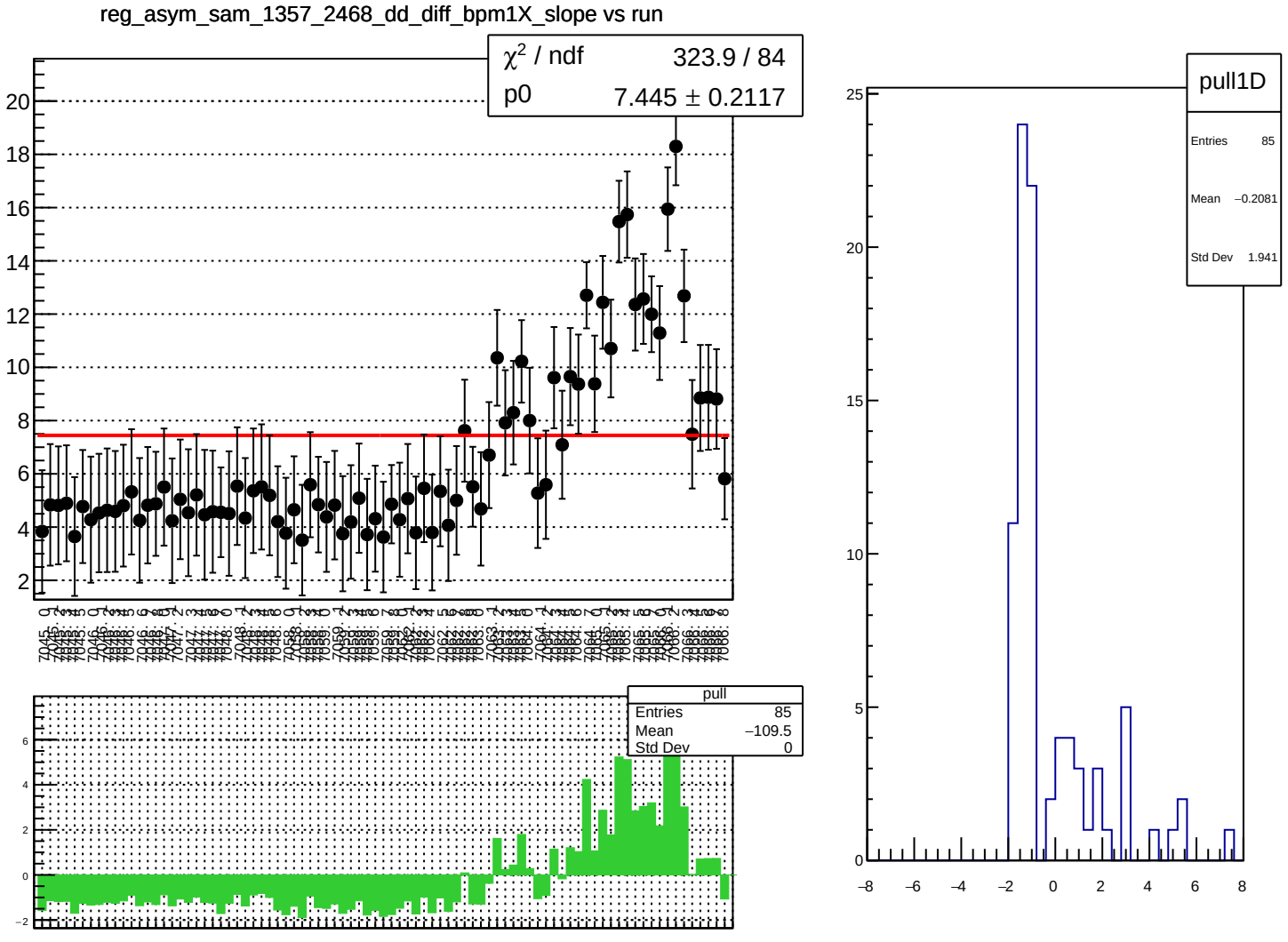

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 156.6 / 84
p0 0.734 ± 0.5652
pull
Entries 85
Mean −414.1
Std Dev 0
pull1D
Entries 85
Mean −0.05864
Std Dev 1.356

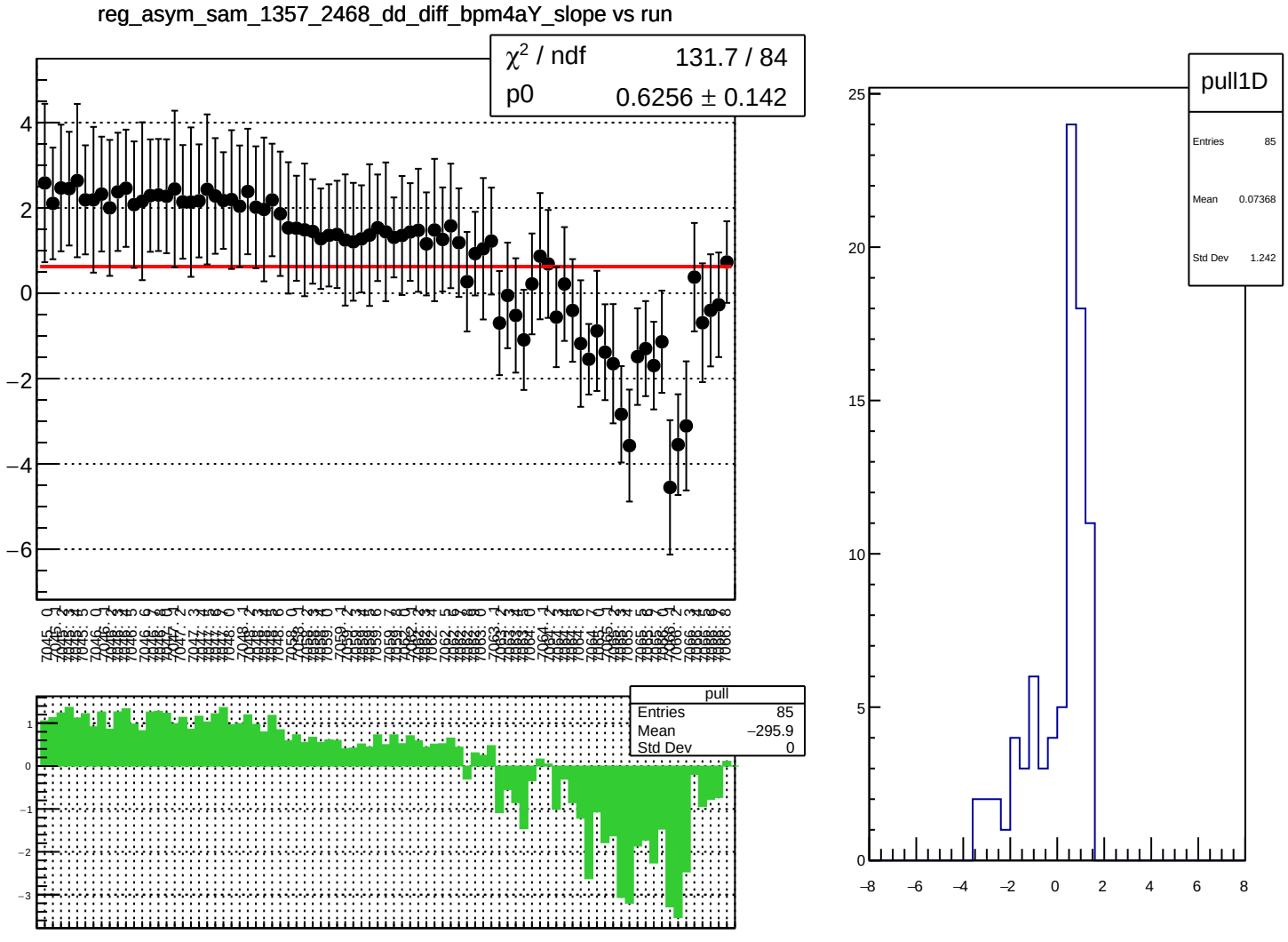

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 353.6 / 84
p0 −61.42 ± 0.8048
pull
Entries 85
Mean −150.5
Std Dev 0
pull1D
Entries 85
Mean −0.1851
Std Dev 2.031

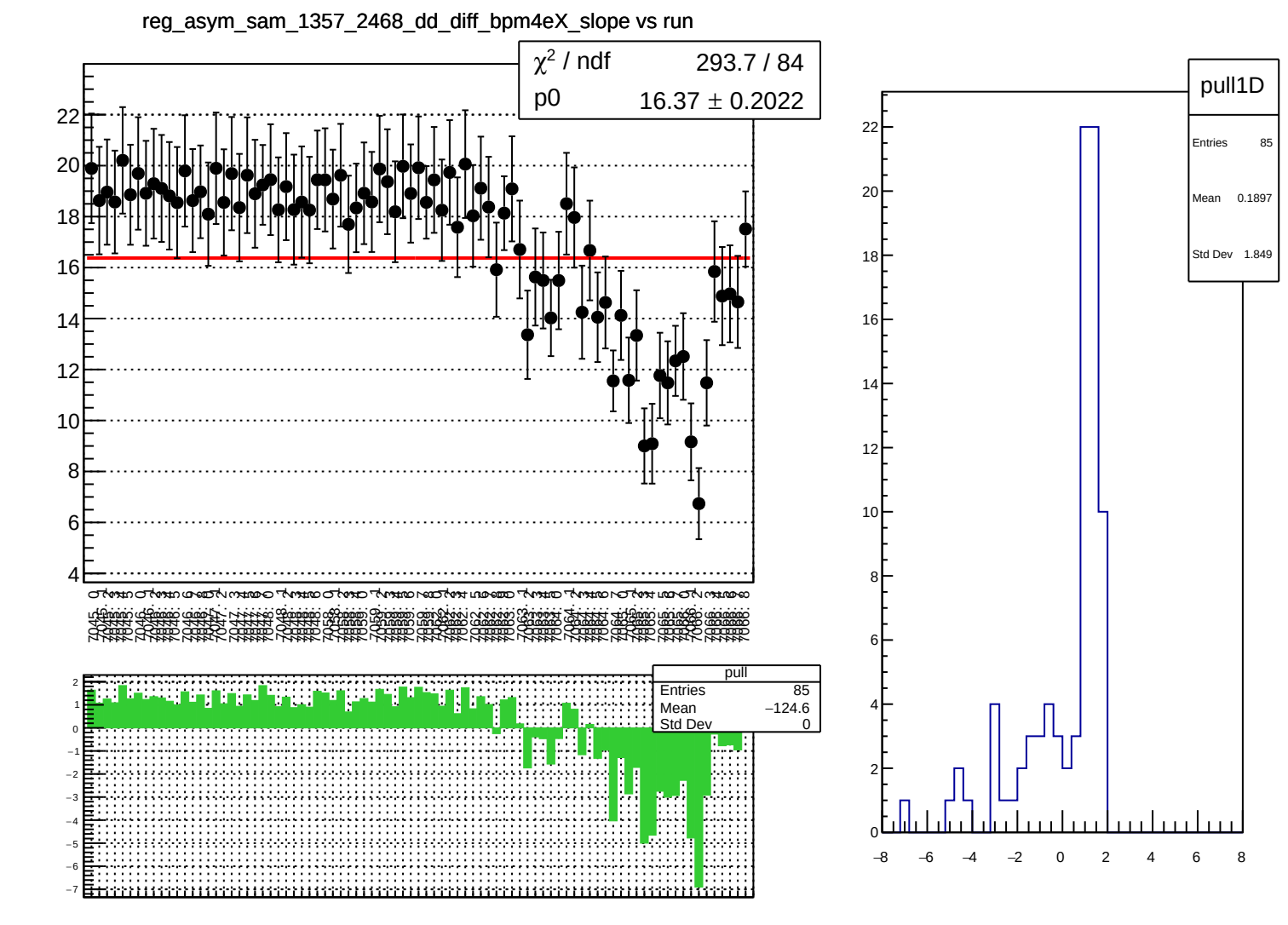

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 150.7 / 84
p0 39.23 ± 0.6025
pull
Entries 85
Mean −406.9
Std Dev 0
pull1D
Entries 85
Mean 0.05979
Std Dev 1.33

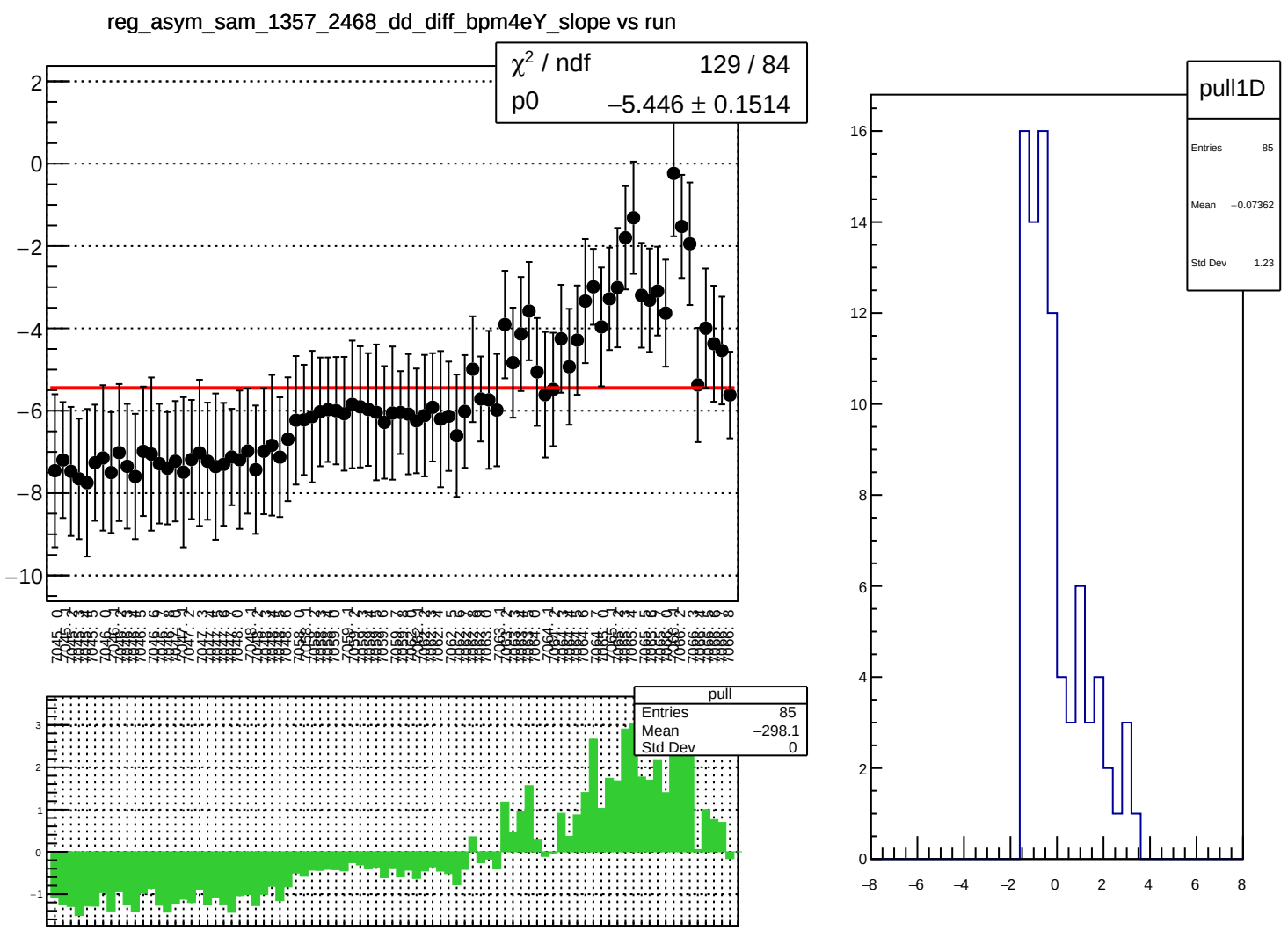

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 16.02 / 84
p0 0.1765 ± 0.02813
pull
Entries 85
Mean −996.3
Std Dev 0

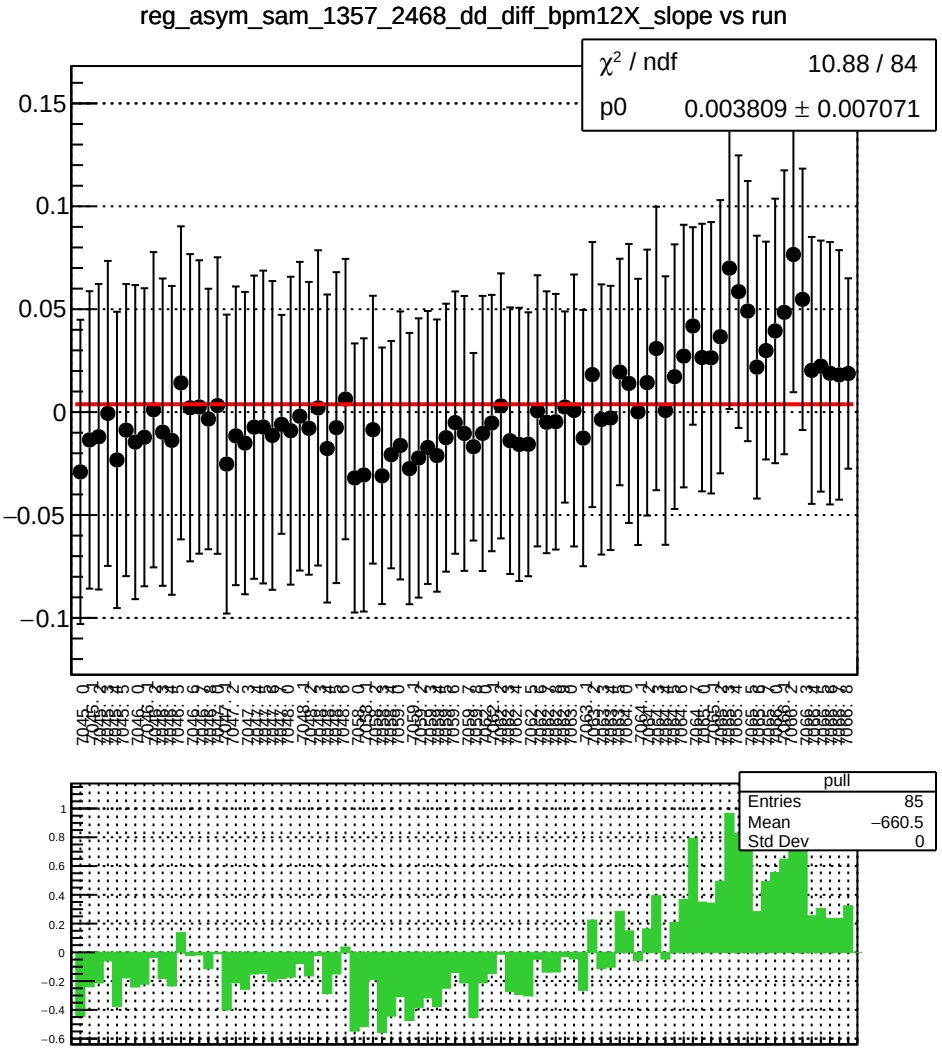

pull1D
Entries 85
Mean 0.007255
Std Dev 0.4341

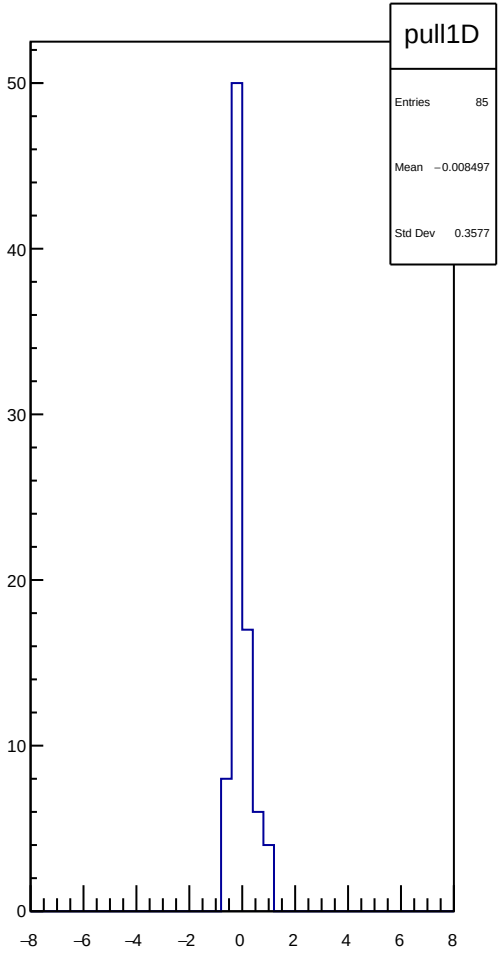

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 323.9 / 84
p0 7.445 ± 0.2117
pull
Entries 85
Mean −109.5
Std Dev 0
pull1D
Entries 85
Mean −0.2081
Std Dev 1.941

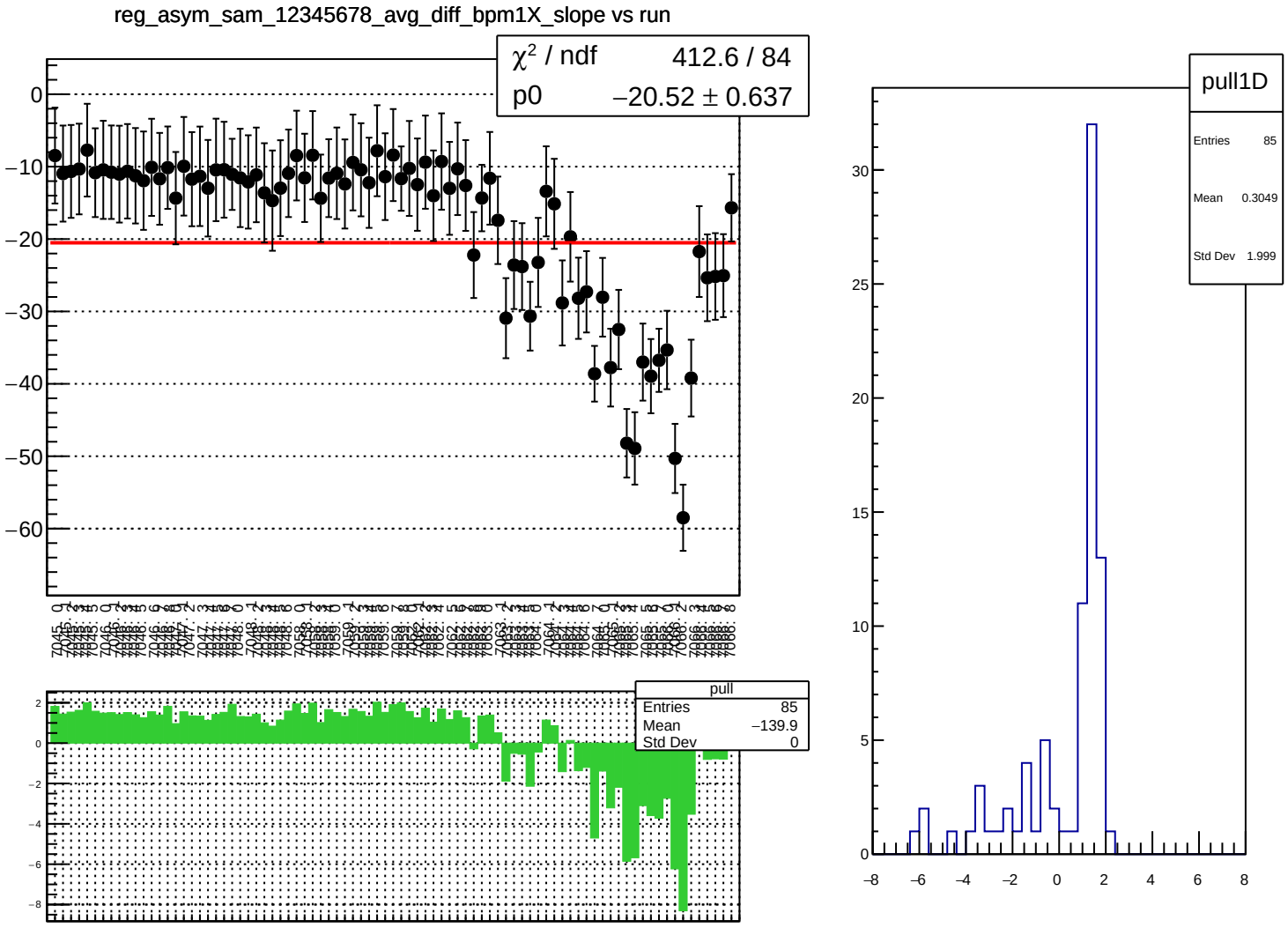

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 131.7 / 84
p0 0.6256 ± 0.142
pull
Entries 85
Mean −295.9
Std Dev 0
pull1D
Entries 85
Mean 0.07368
Std Dev 1.242

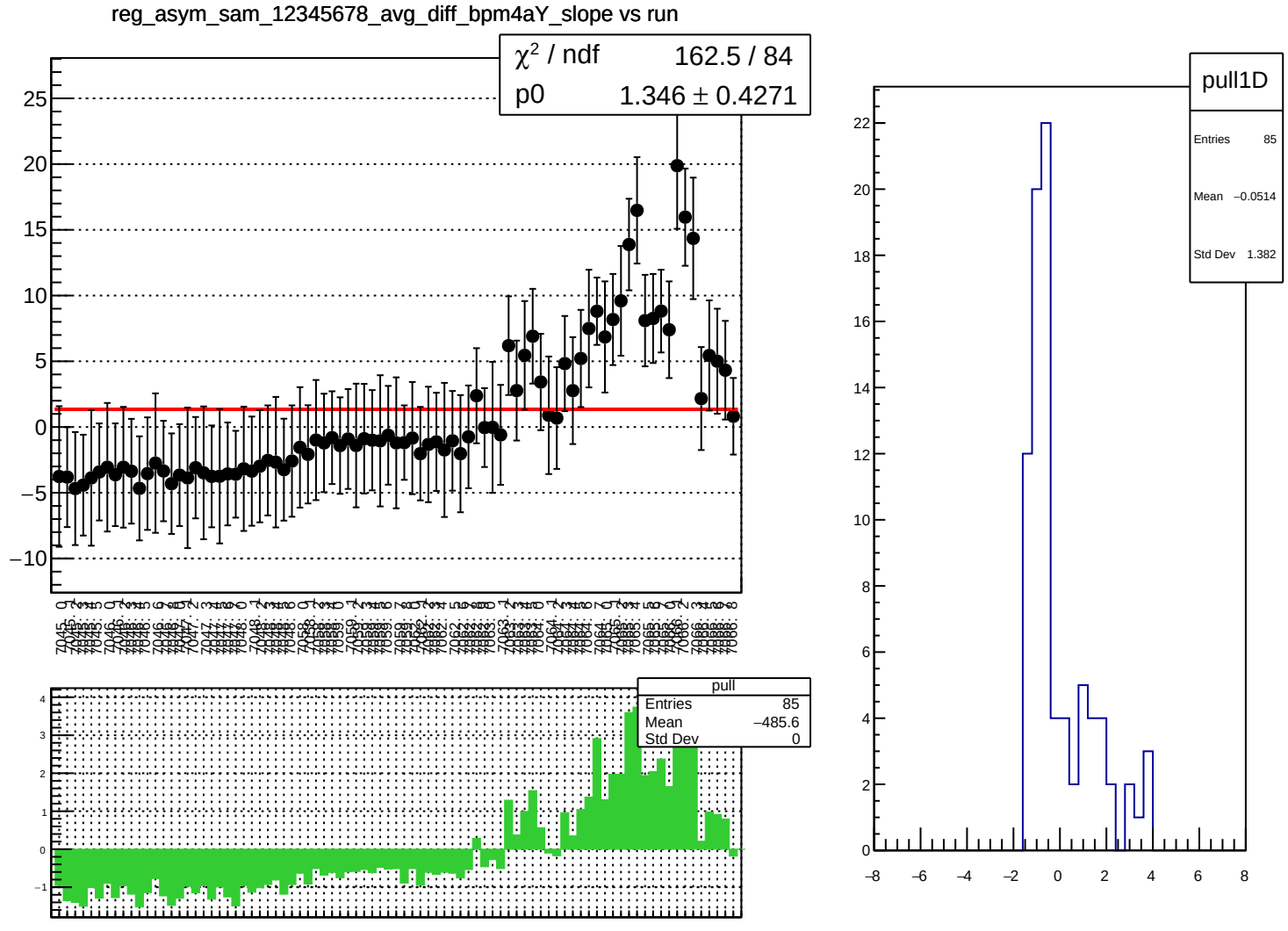

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 293.7 / 84
p0 16.37 ± 0.2022
pull
Entries 85
Mean −124.6
Std Dev 0
pull1D
Entries 85
Mean 0.1897
Std Dev 1.849

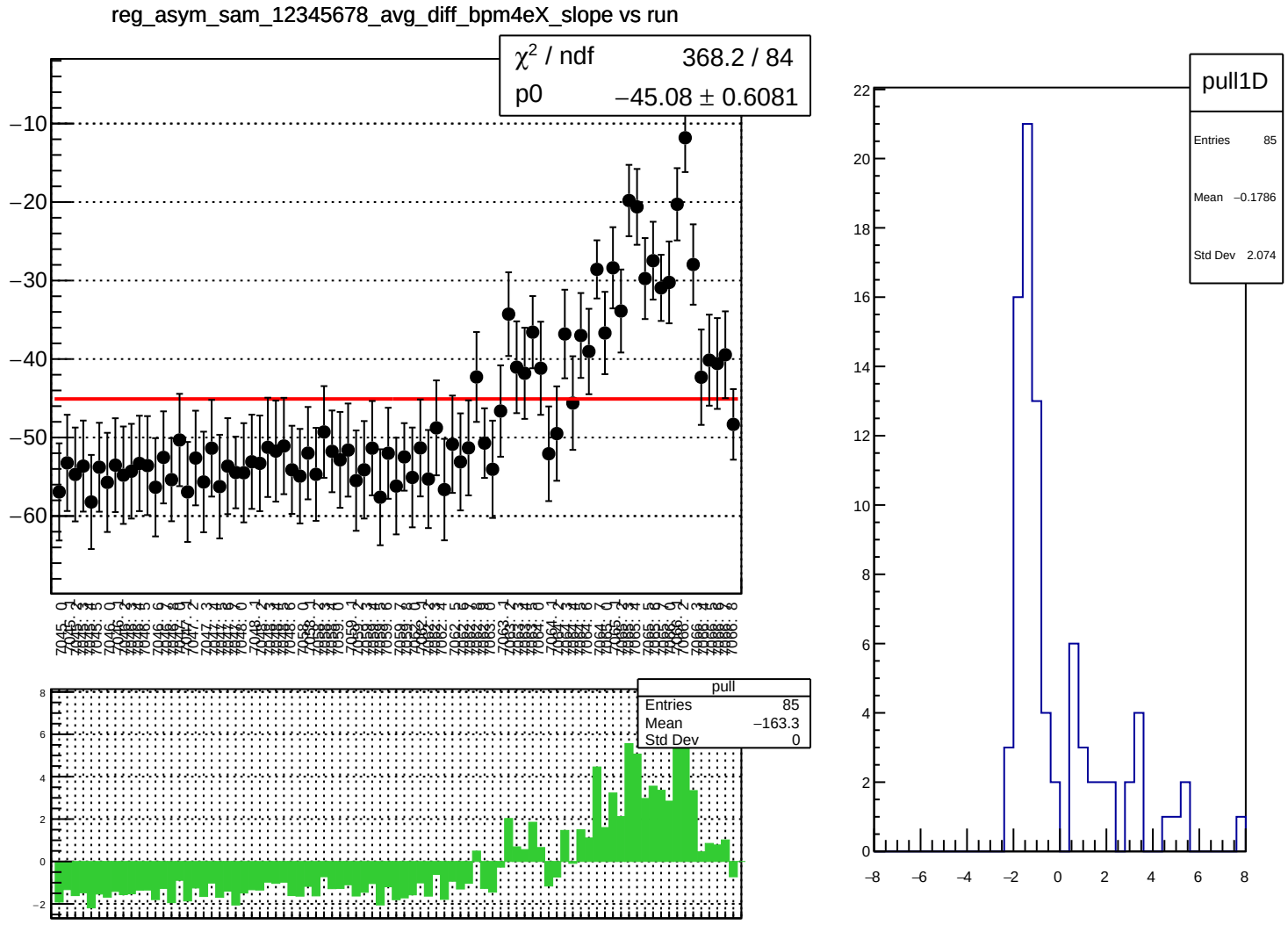

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 129 / 84
p0 −5.446 ± 0.1514
pull
Entries 85
Mean −298.1
Std Dev 0
pull1D
Entries 85
Mean −0.07362
Std Dev 1.23

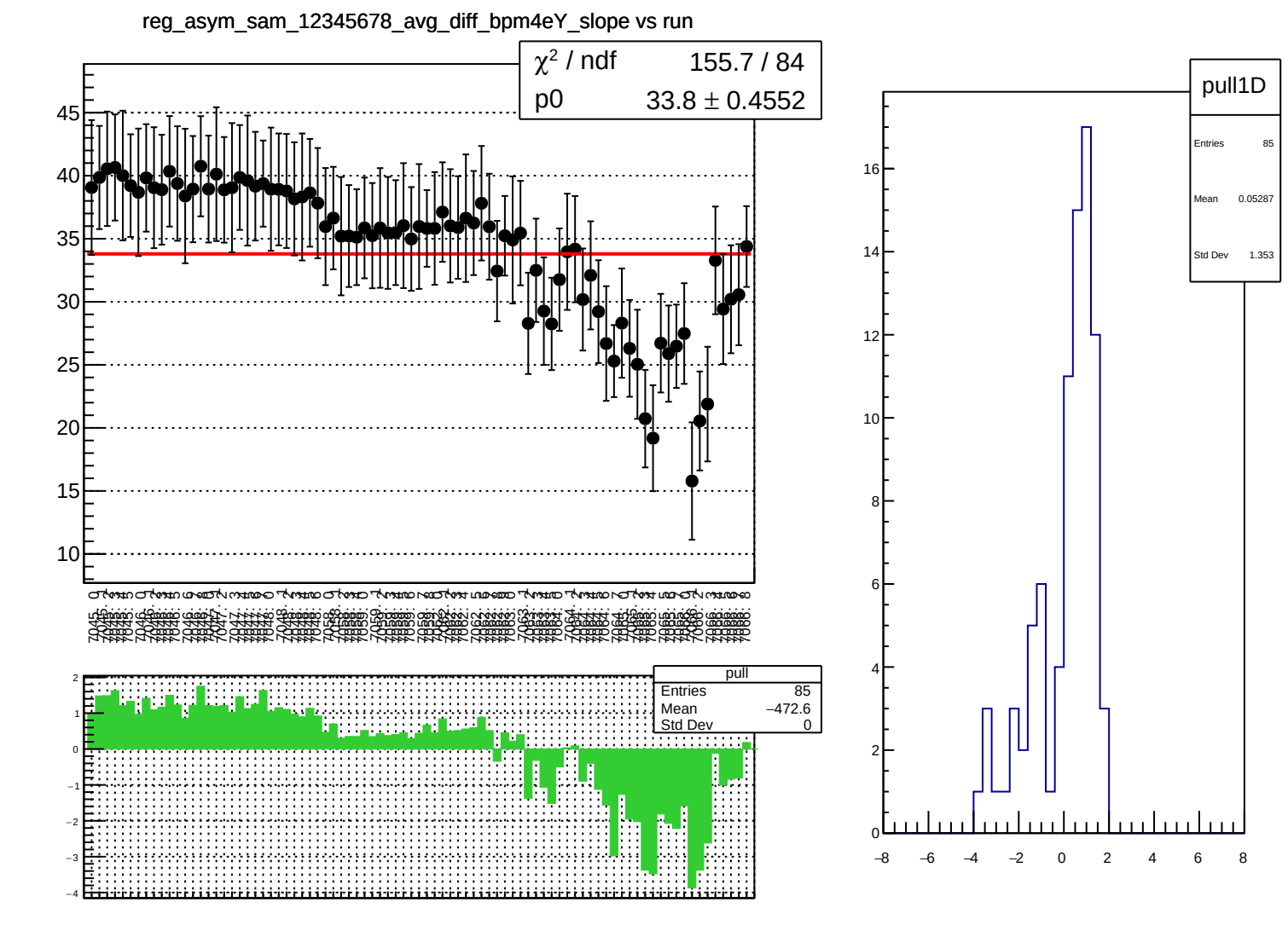

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 10.88 / 84
p0 0.003809 ± 0.007071
pull
Entries 85
Mean −660.5
Std Dev 0

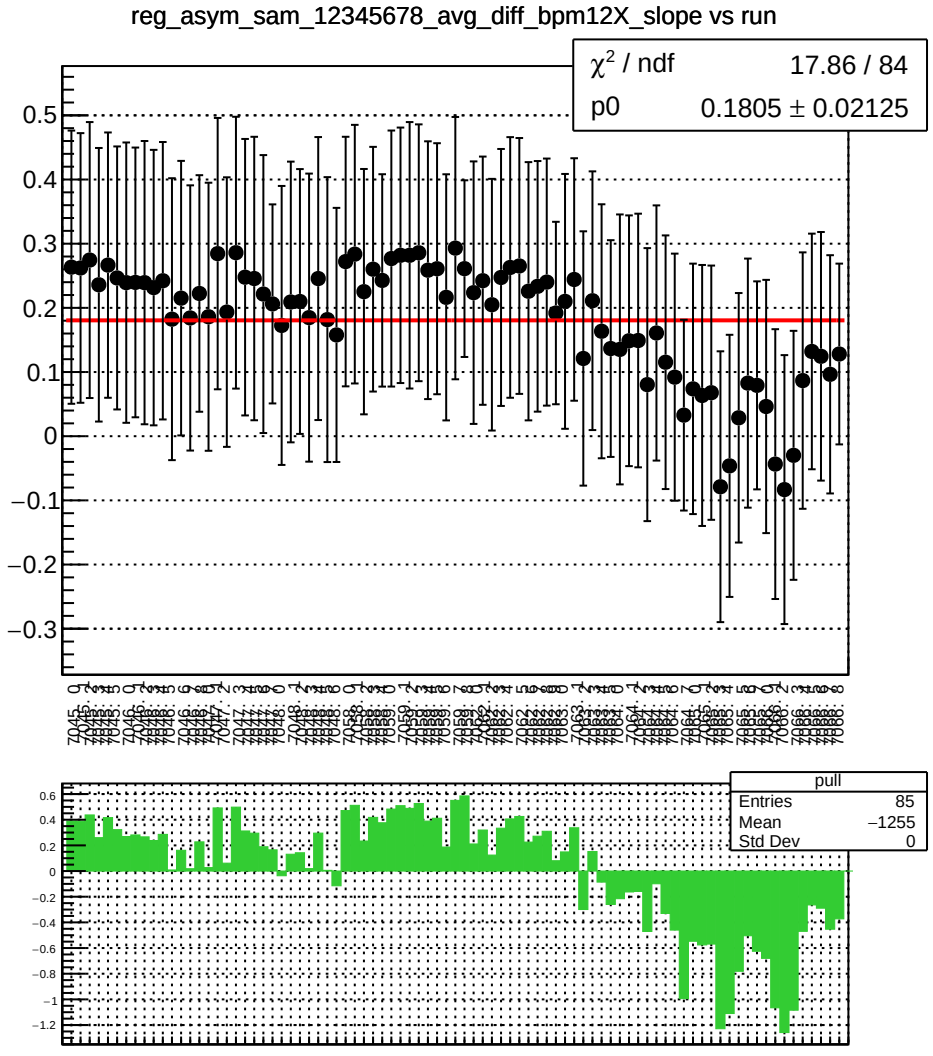

pull1D
Entries 85
Mean −0.008497
Std Dev 0.3577

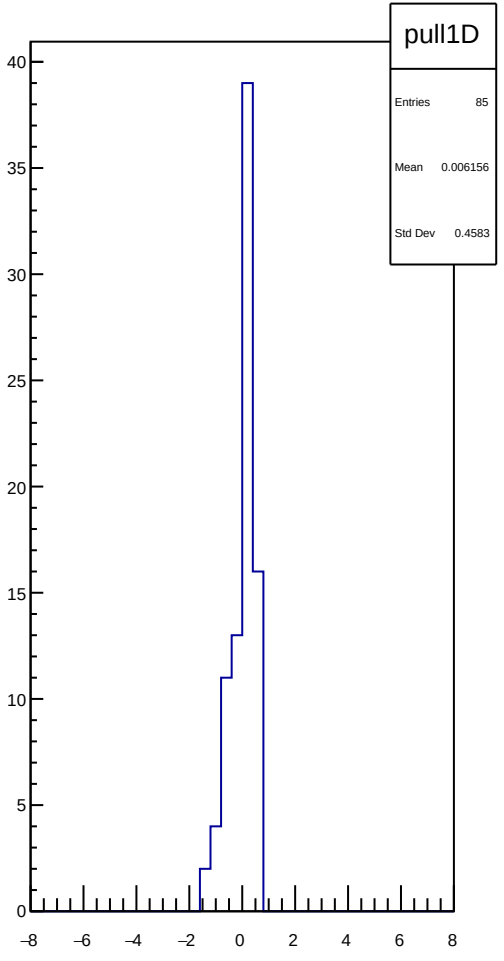

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 412.6 / 84
p0 −20.52 ± 0.637
pull
Entries 85
Mean −139.9
Std Dev 0
pull1D
Entries 85
Mean 0.3049
Std Dev 1.999

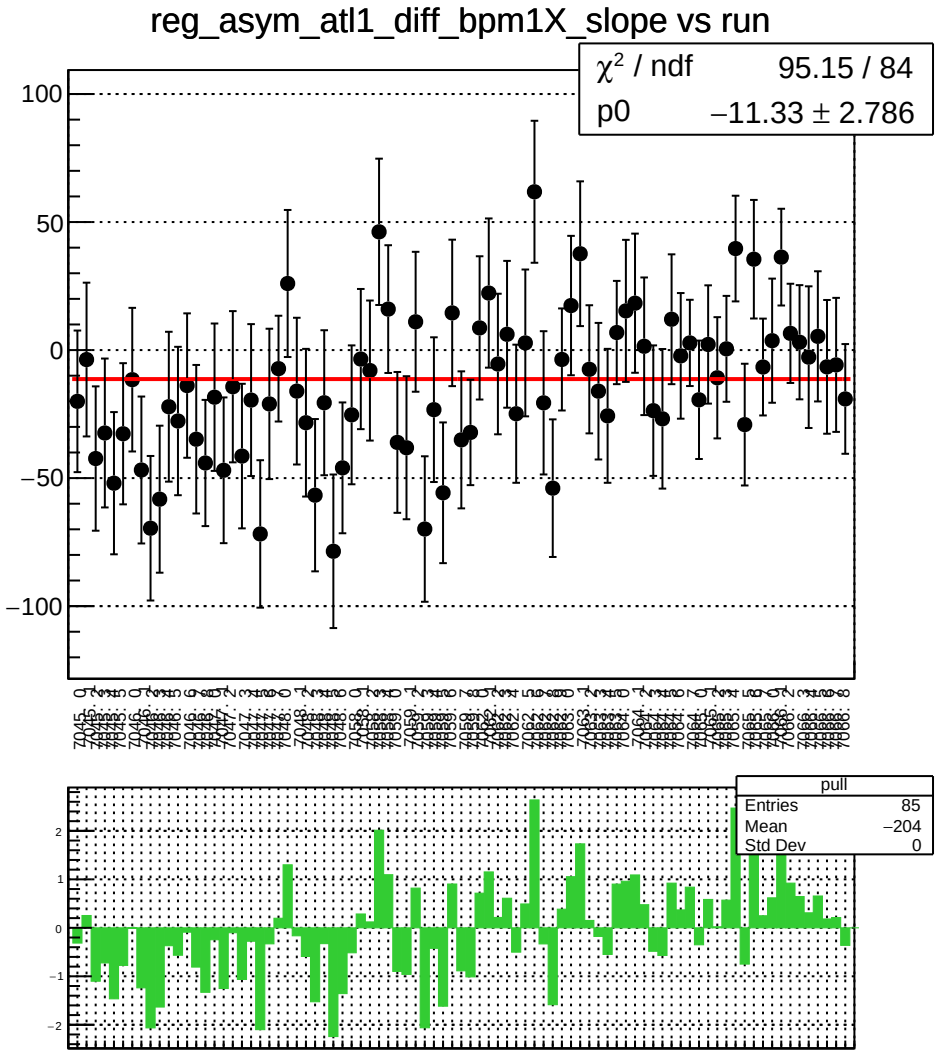

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 162.5 / 84
p0 1.346 ± 0.4271
pull
Entries 85
Mean −485.6
Std Dev 0
pull1D
Entries 85
Mean −0.0514
Std Dev 1.382

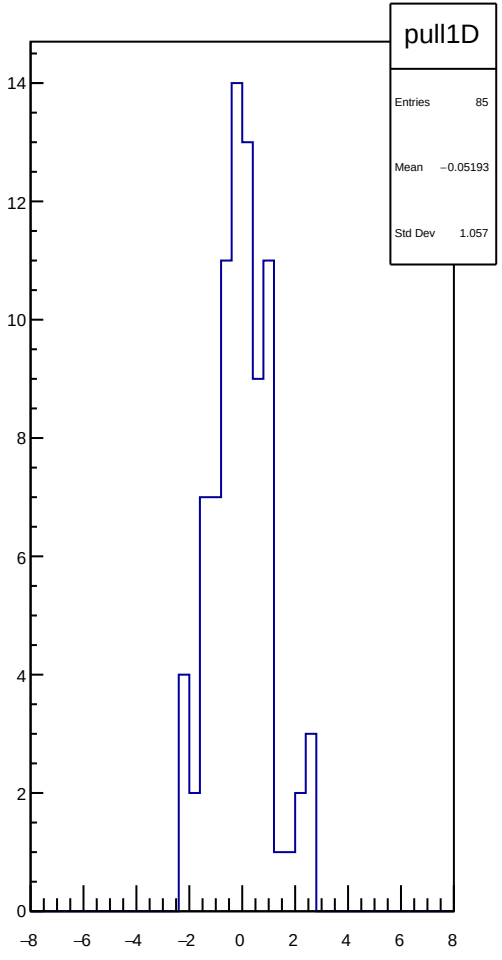

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 368.2 / 84
p0 −45.08 ± 0.6081
pull
Entries 85
Mean −163.3
Std Dev 0
pull1D
Entries 85
Mean −0.1786
Std Dev 2.074

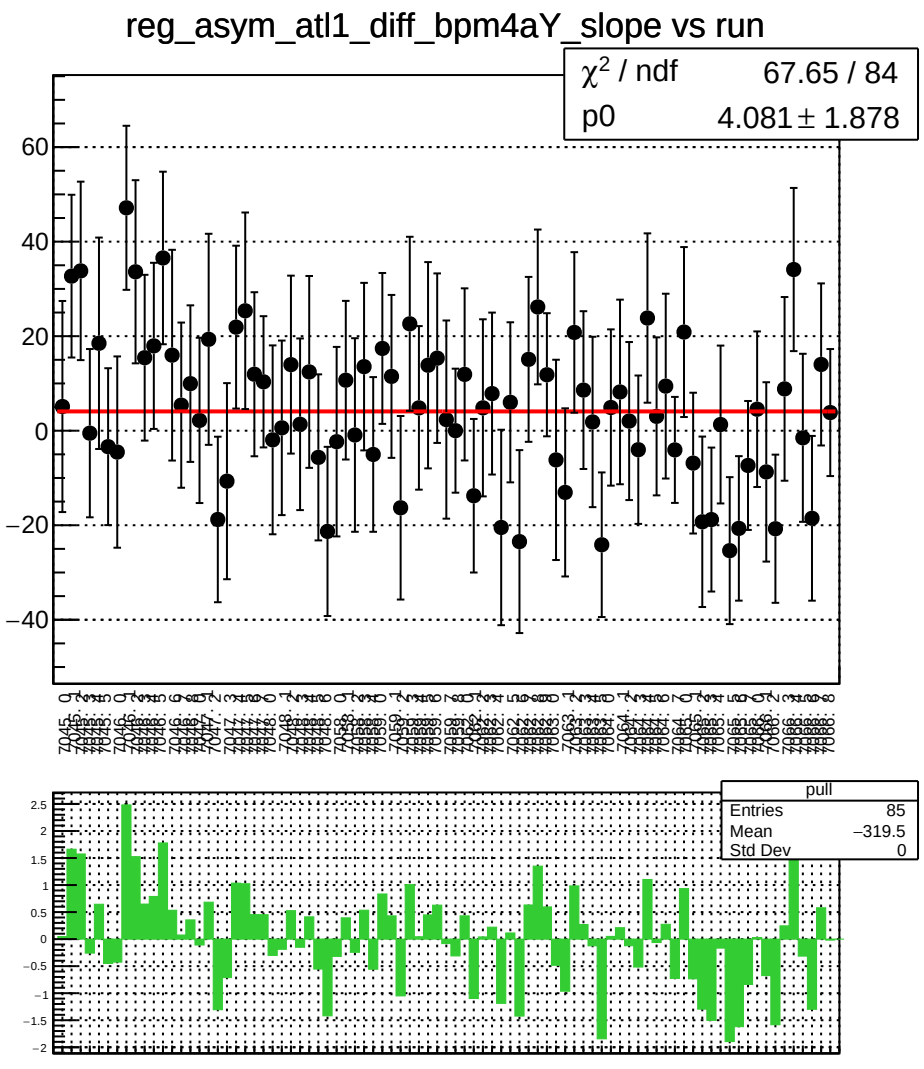

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 155.7 / 84
p0 33.8 ± 0.4552
pull
Entries 85
Mean −472.6
Std Dev 0
pull1D
Entries 85
Mean 0.05287
Std Dev 1.353

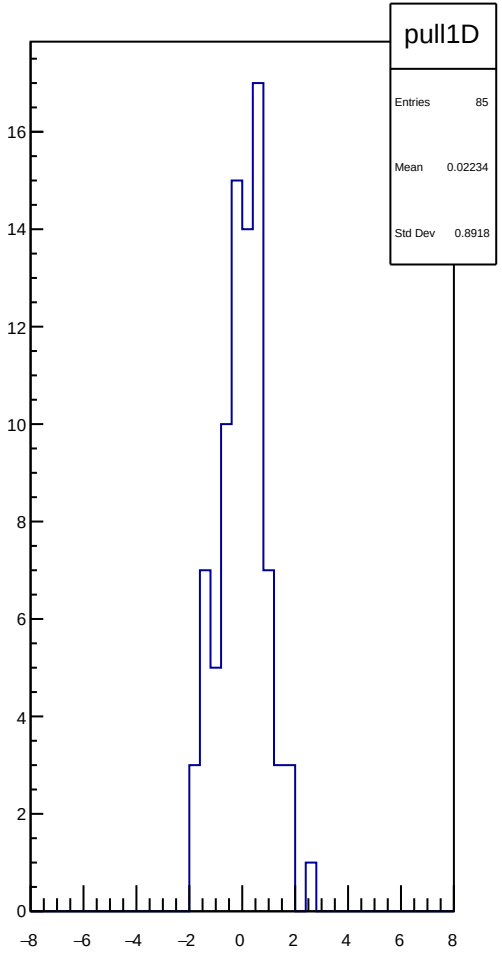

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 17.86 / 84
p0 0.1805 ± 0.02125
pull
Entries 85
Mean −1255
Std Dev 0

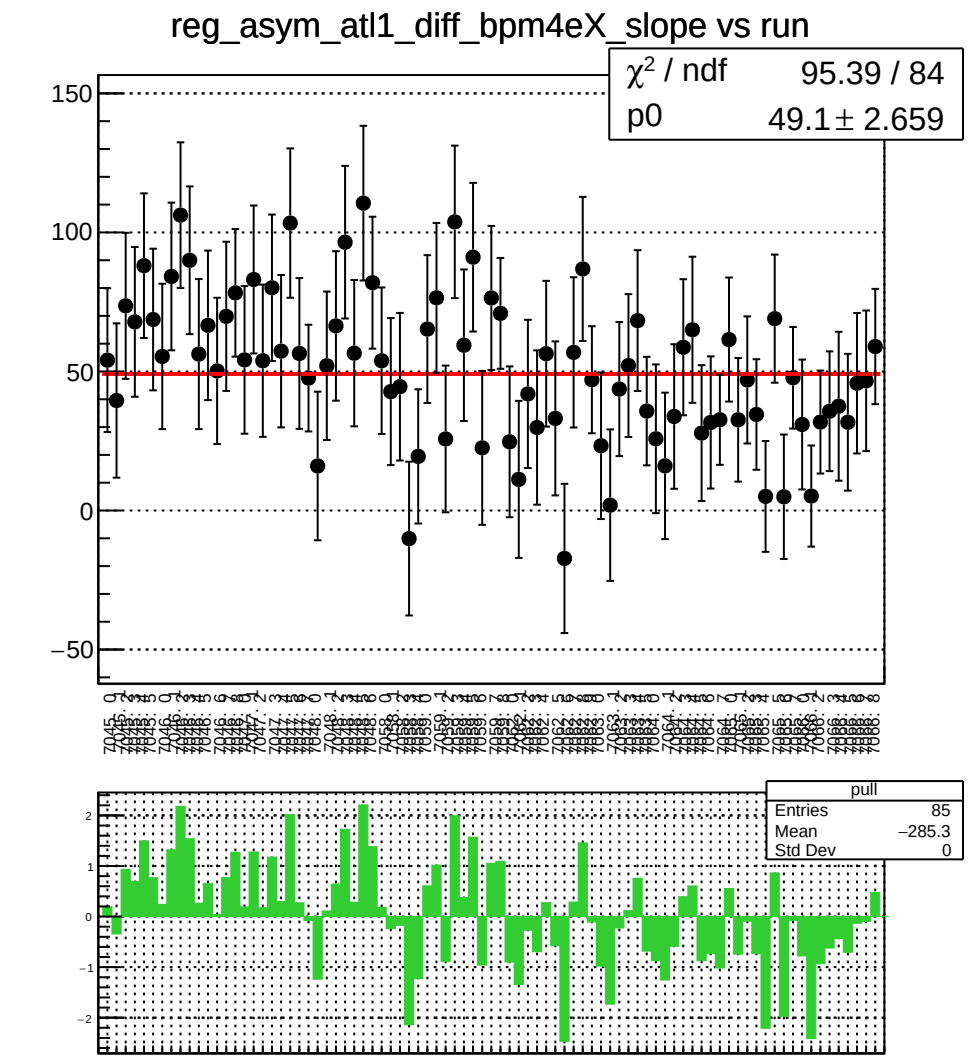

pull1D
Entries 85
Mean 0.006156
Std Dev 0.4583

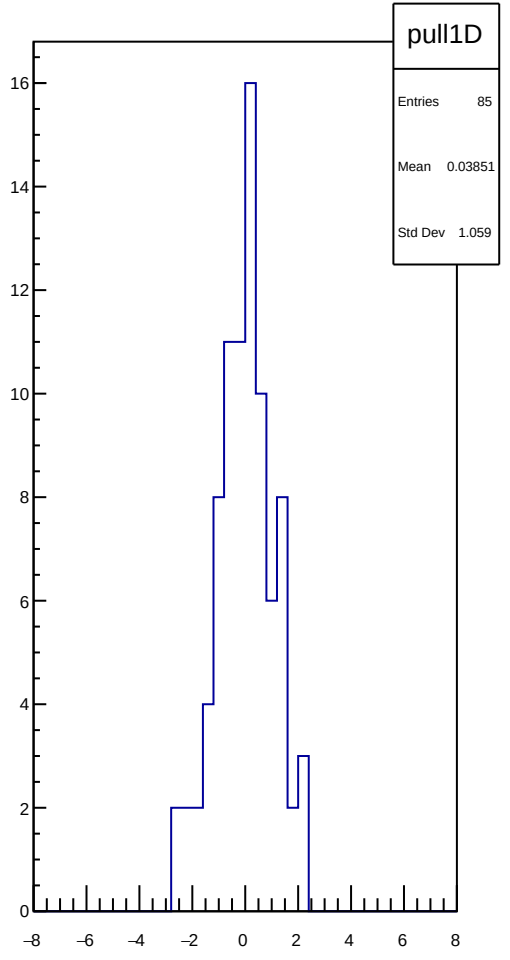

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 95.15 / 84
p0 −11.33 ± 2.786
100
50
0
−50
−100
pull
Entries 85
Mean −204
Std Dev 0
2
1
0
−1
−2

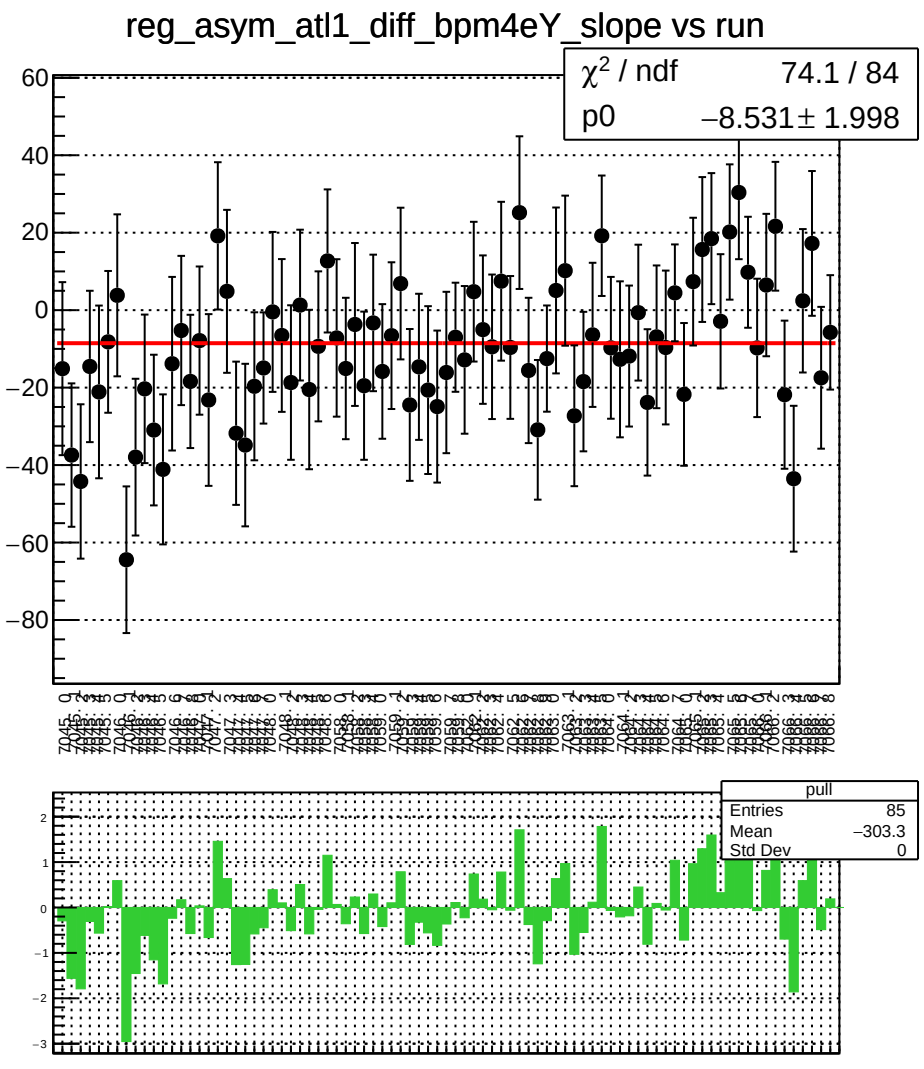

pull1D
Entries 85
Mean −0.05193
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

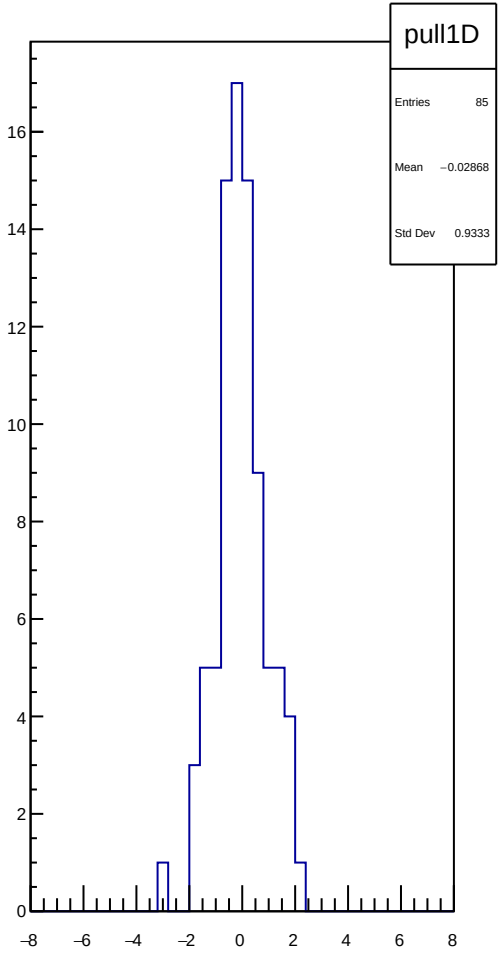

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 67.65 / 84
p0 4.081 ± 1.878
pull
Entries 85
Mean −319.5
Std Dev 0

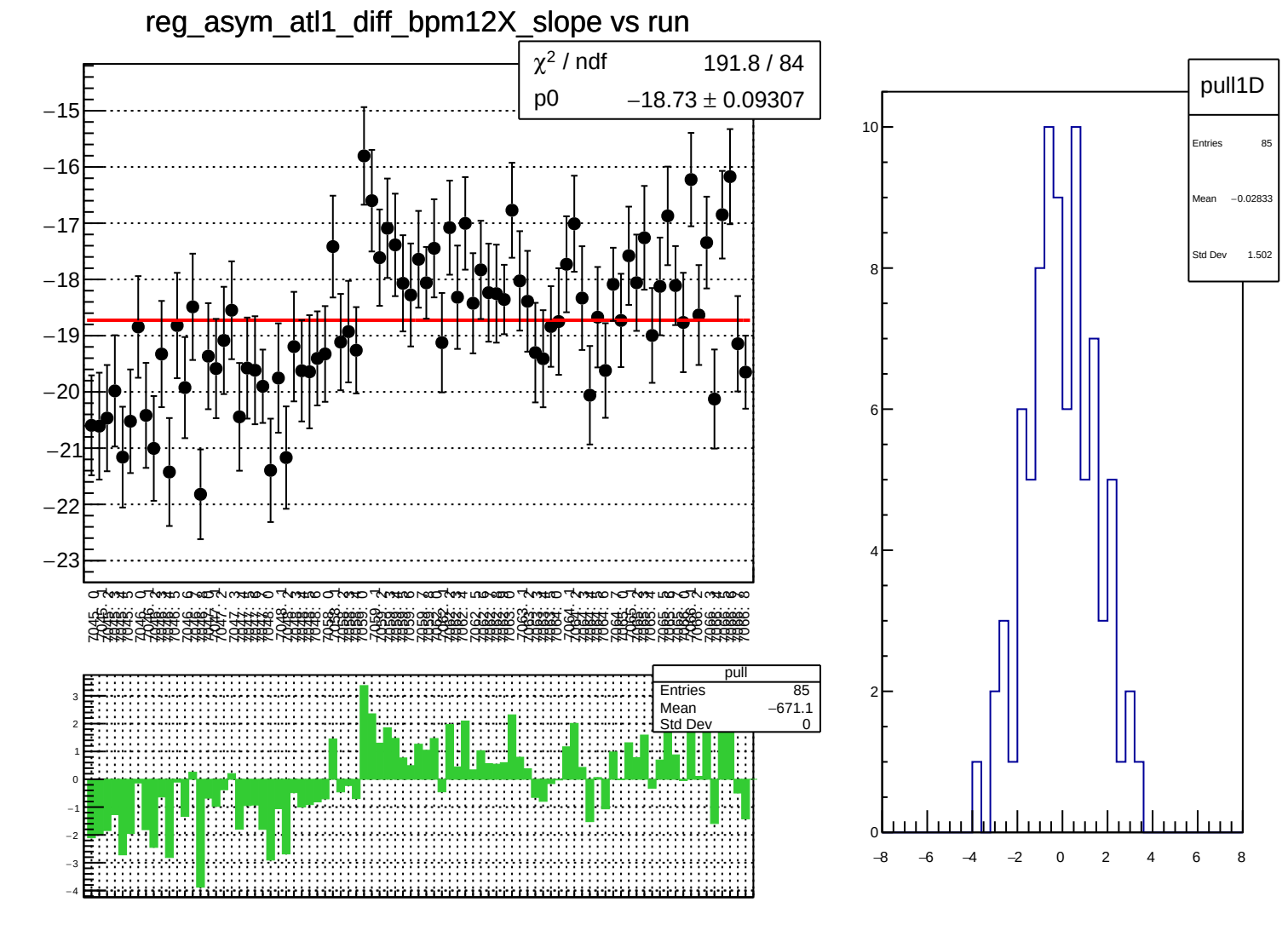

pull1D
Entries 85
Mean 0.02234
Std Dev 0.8918

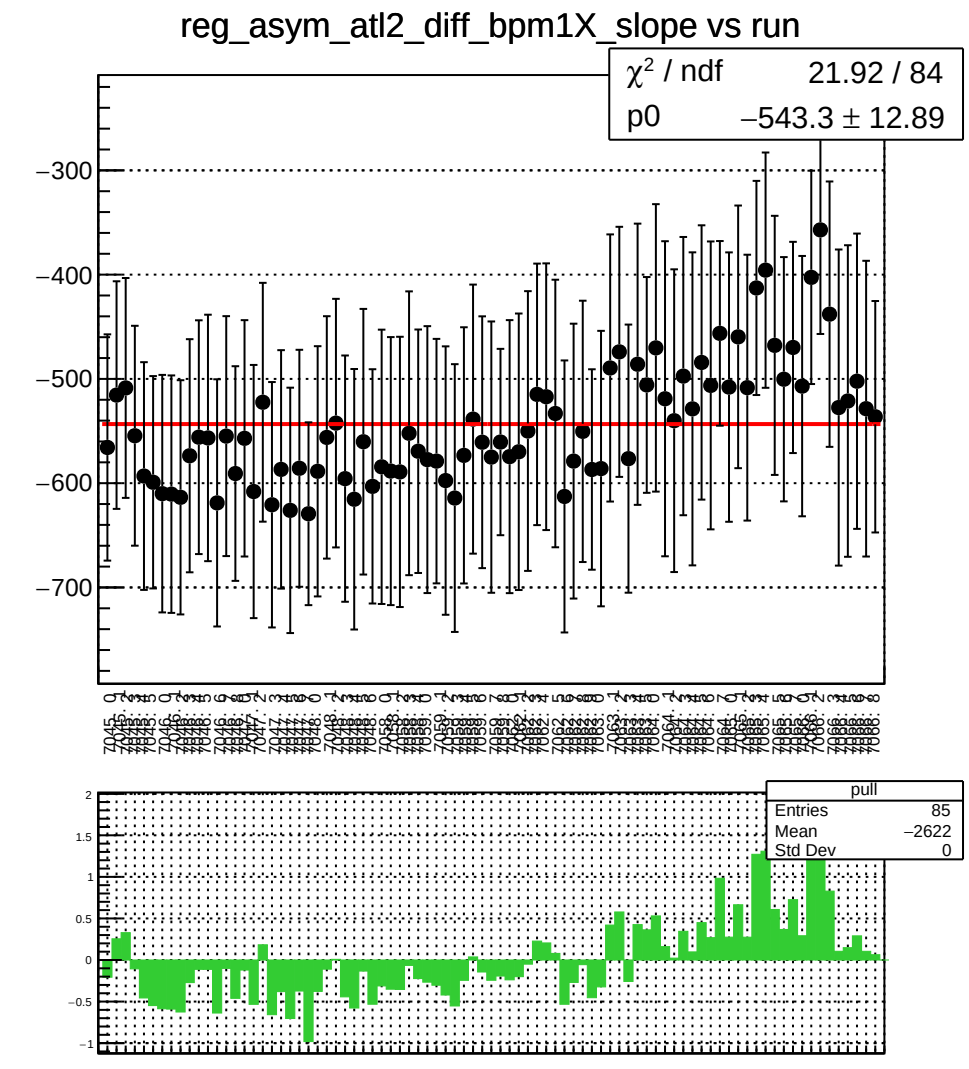

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 95.39 / 84
p0 49.1 ± 2.659
150
100
50
0
−50
pull
Entries 85
Mean −285.3
Std Dev 0
2
1
0
−1
−2

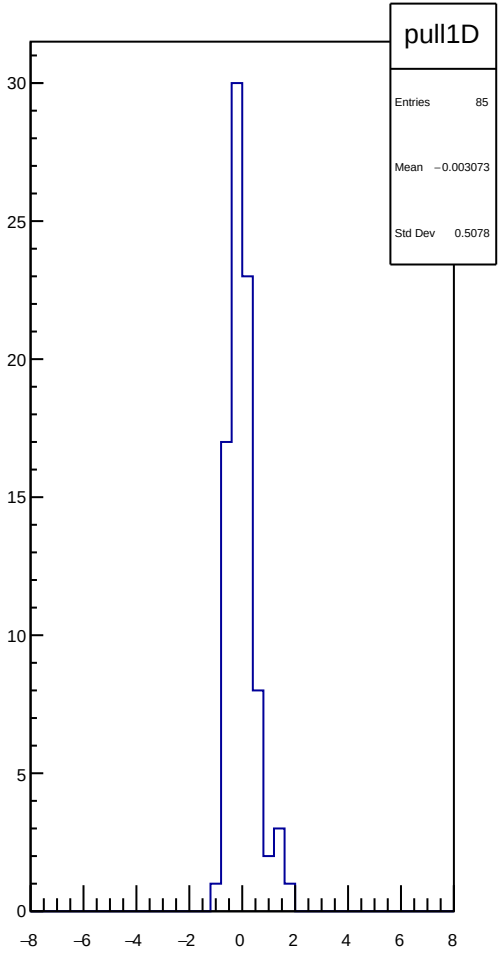

pull1D
Entries 85
Mean 0.03851
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

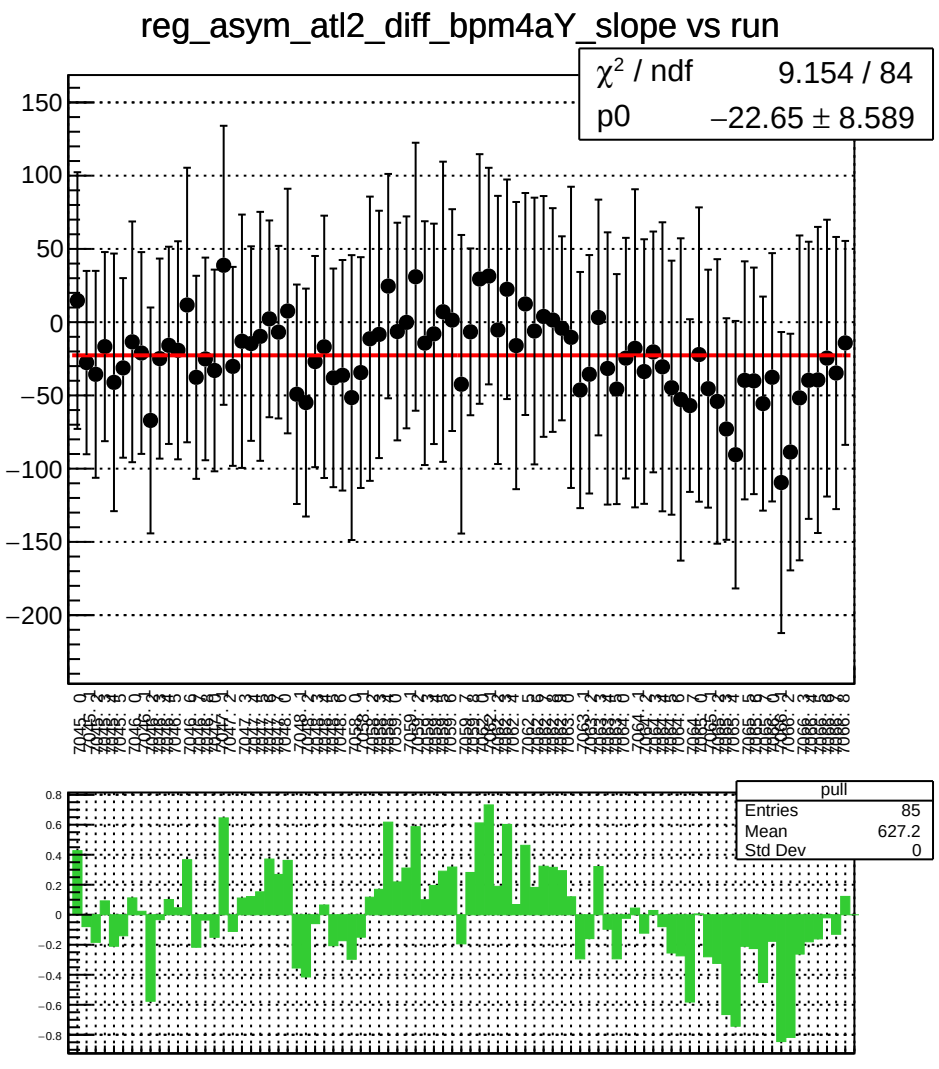

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 74.1 / 84
p0 −8.531 ± 1.998
pull
Entries 85
Mean −303.3
Std Dev 0

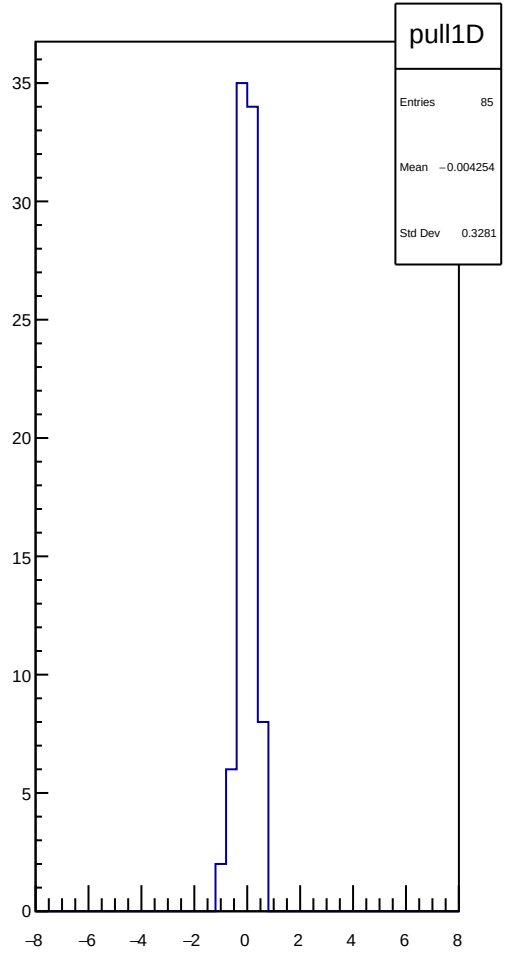

pull1D
Entries 85
Mean −0.02868
Std Dev 0.9333

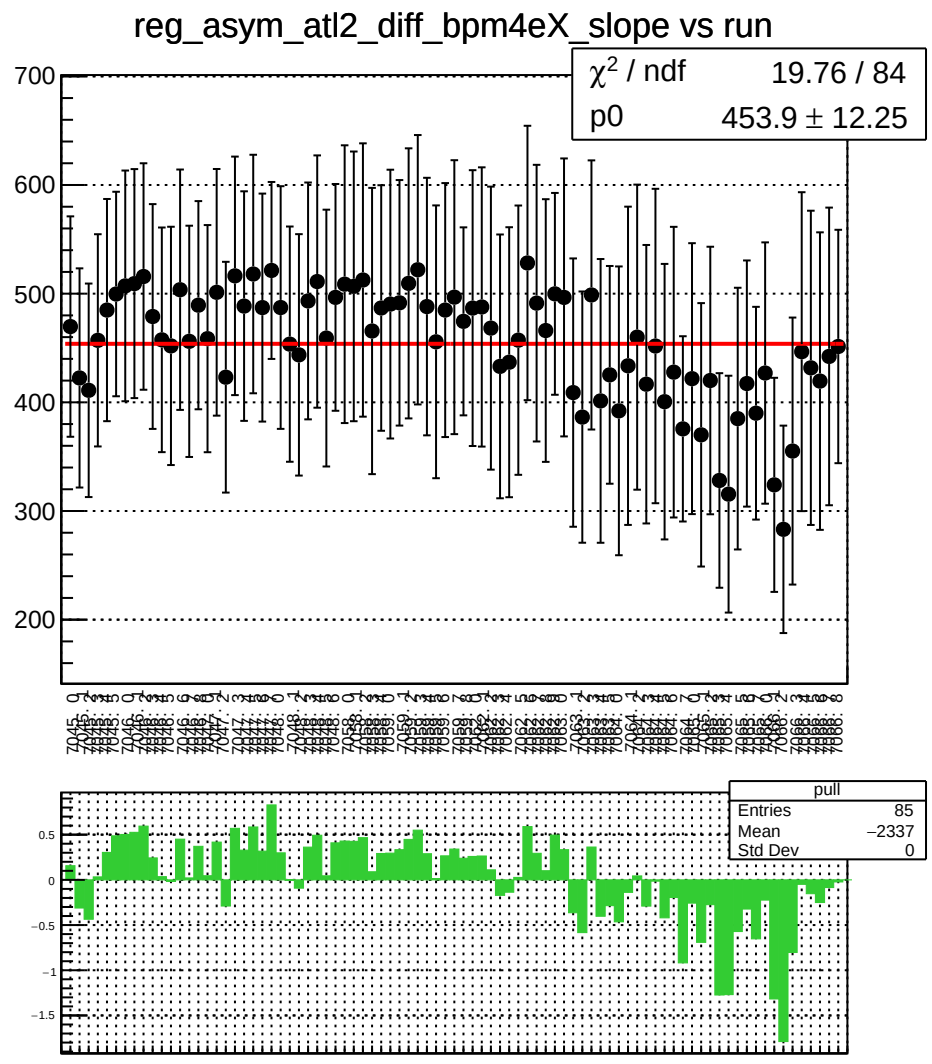

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 191.8 / 84
p0 −18.73 ± 0.09307
pull
Entries 85
Mean −671.1
Std Dev 0
pull1D
Entries 85
Mean −0.02833
Std Dev 1.502

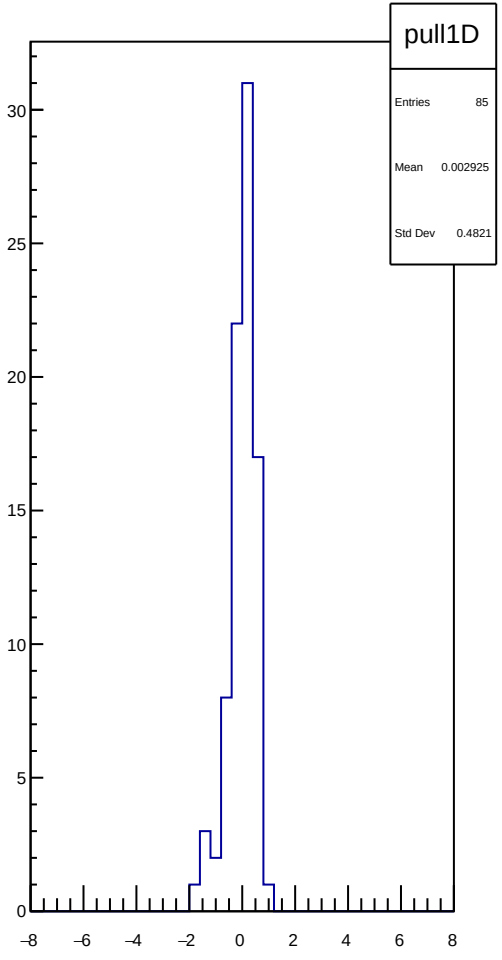

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 21.92 / 84
p0 −543.3 ± 12.89
−300
−400
−500
−600
−700
pull
Entries 85
Mean −2622
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

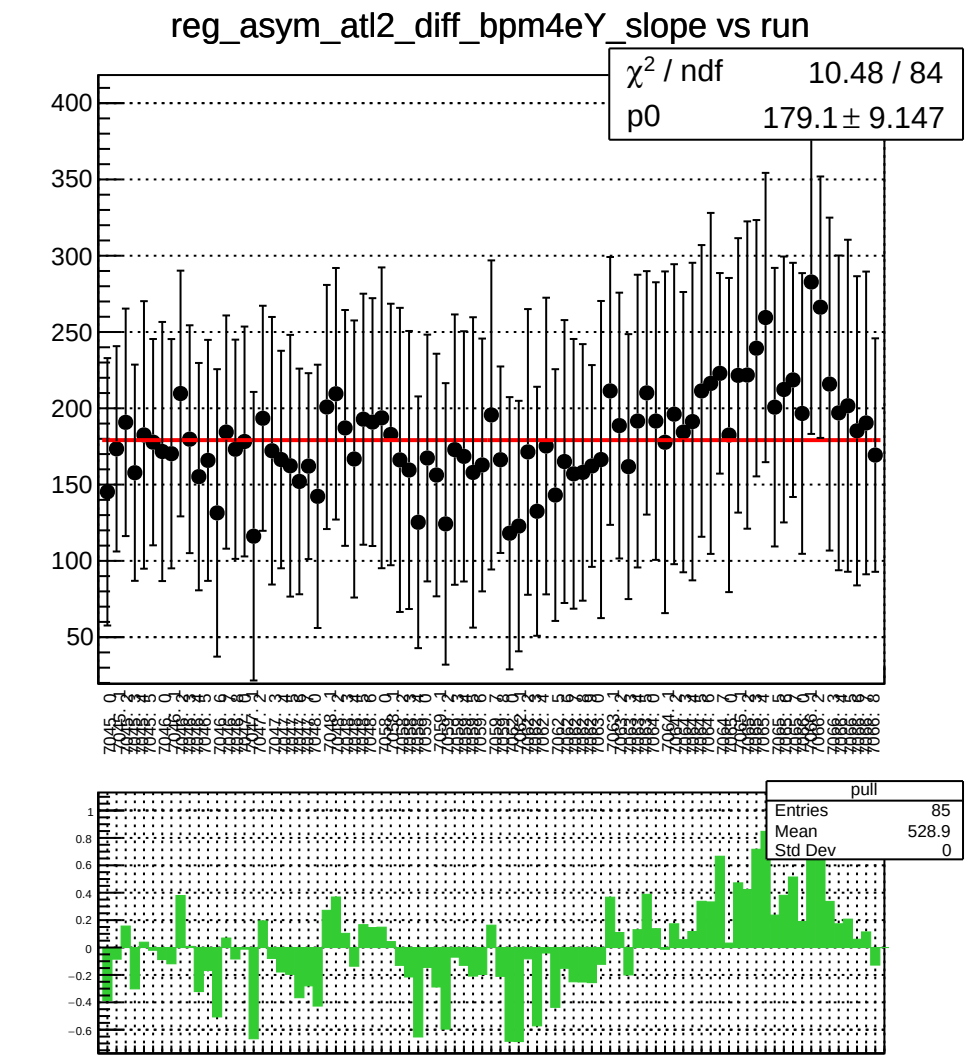

pull1D
Entries 85
Mean −0.003073
Std Dev 0.5078
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

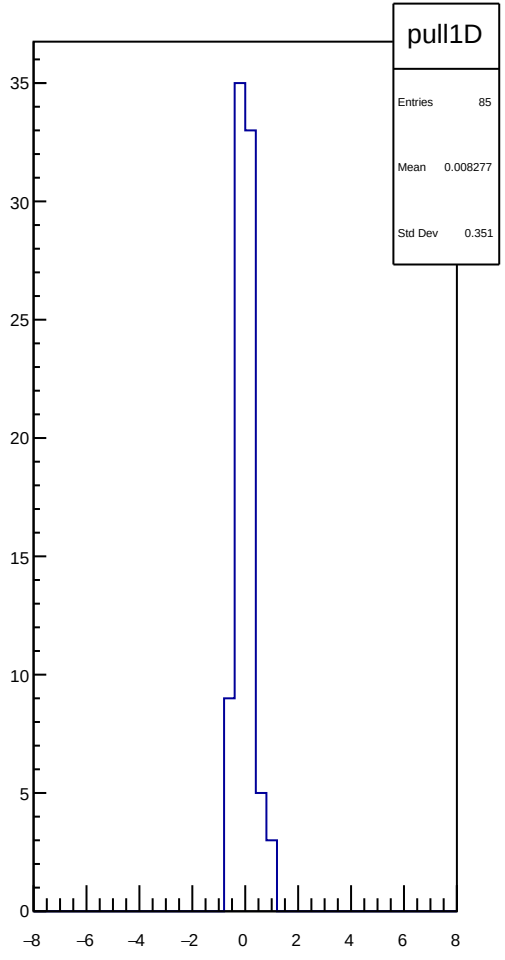

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.154 / 84
p0 −22.65 ± 8.589
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 627.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

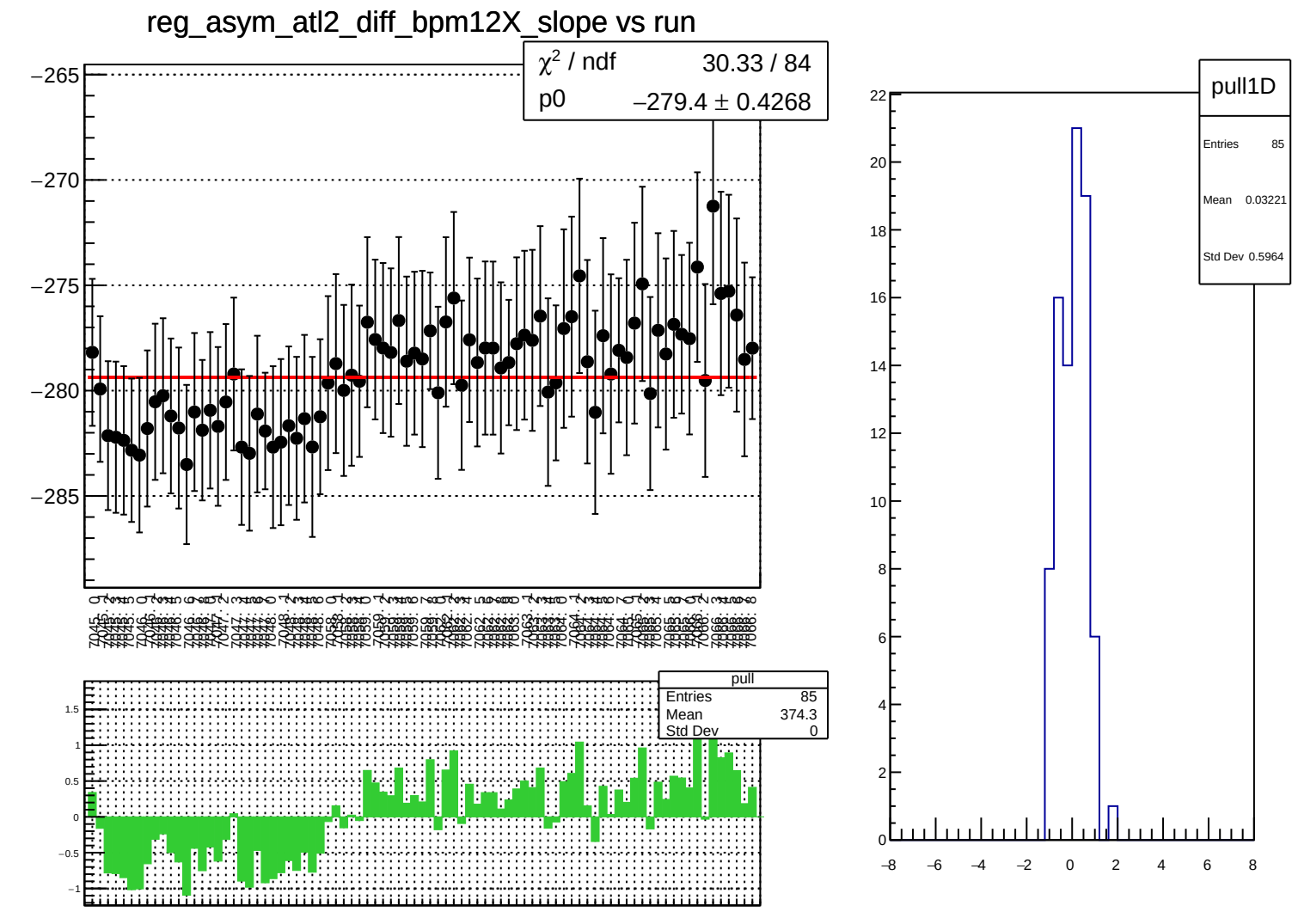

pull1D
Entries 85
Mean −0.004254
Std Dev 0.3281
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

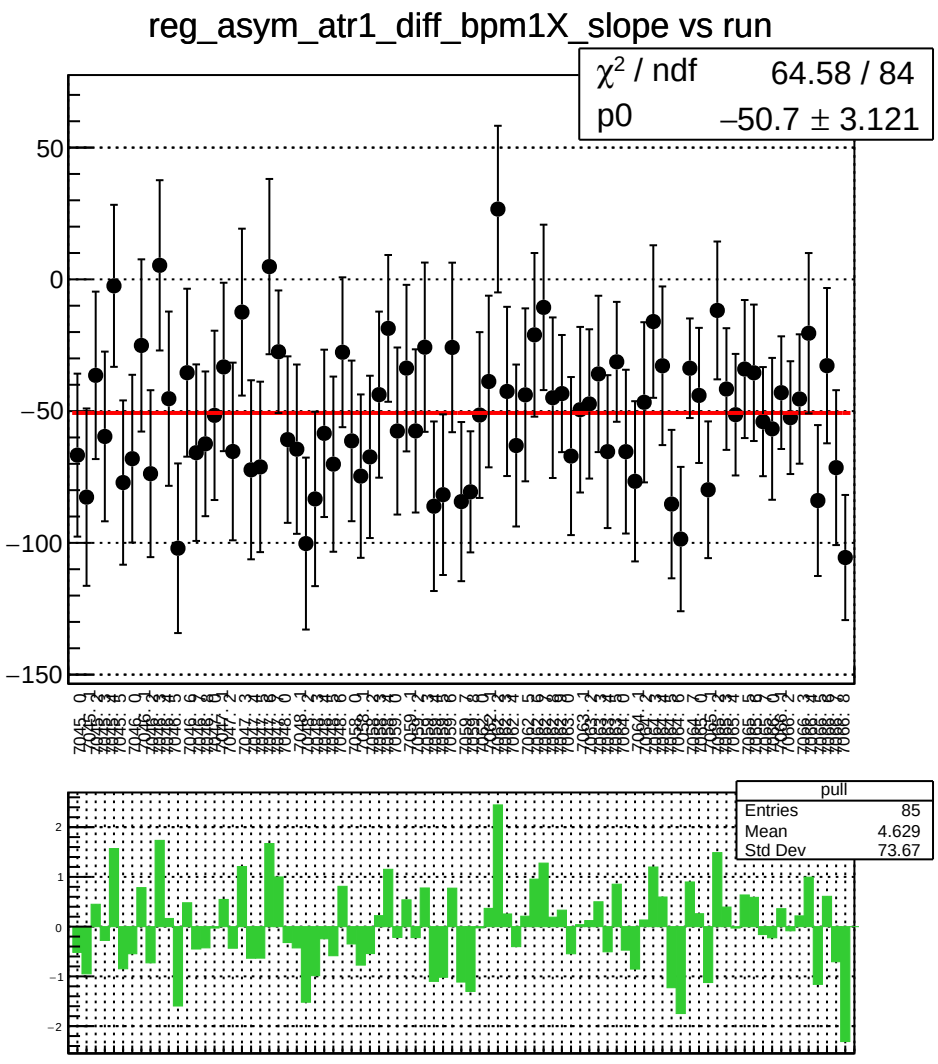

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 19.76 / 84
p0 453.9 ± 12.25
pull
Entries 85
Mean −2337
Std Dev 0

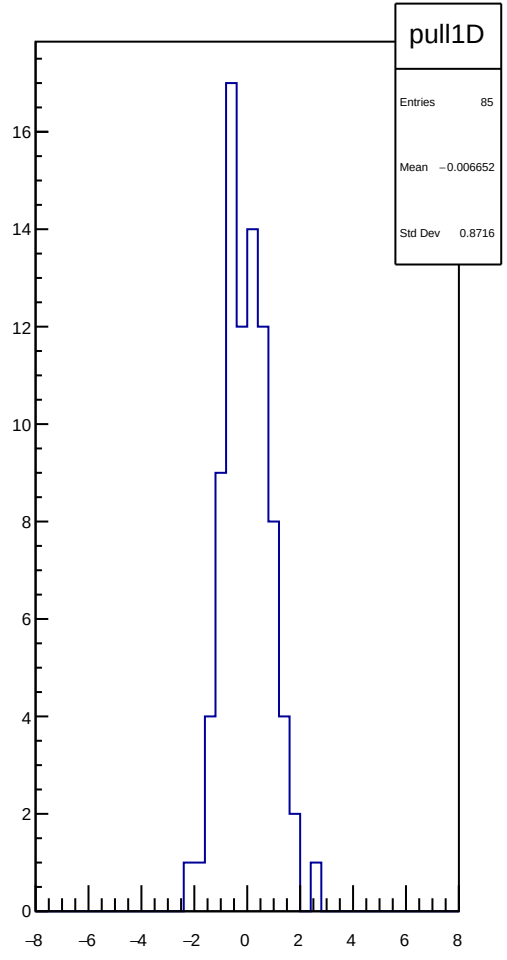

pull1D
Entries 85
Mean 0.002925
Std Dev 0.4821

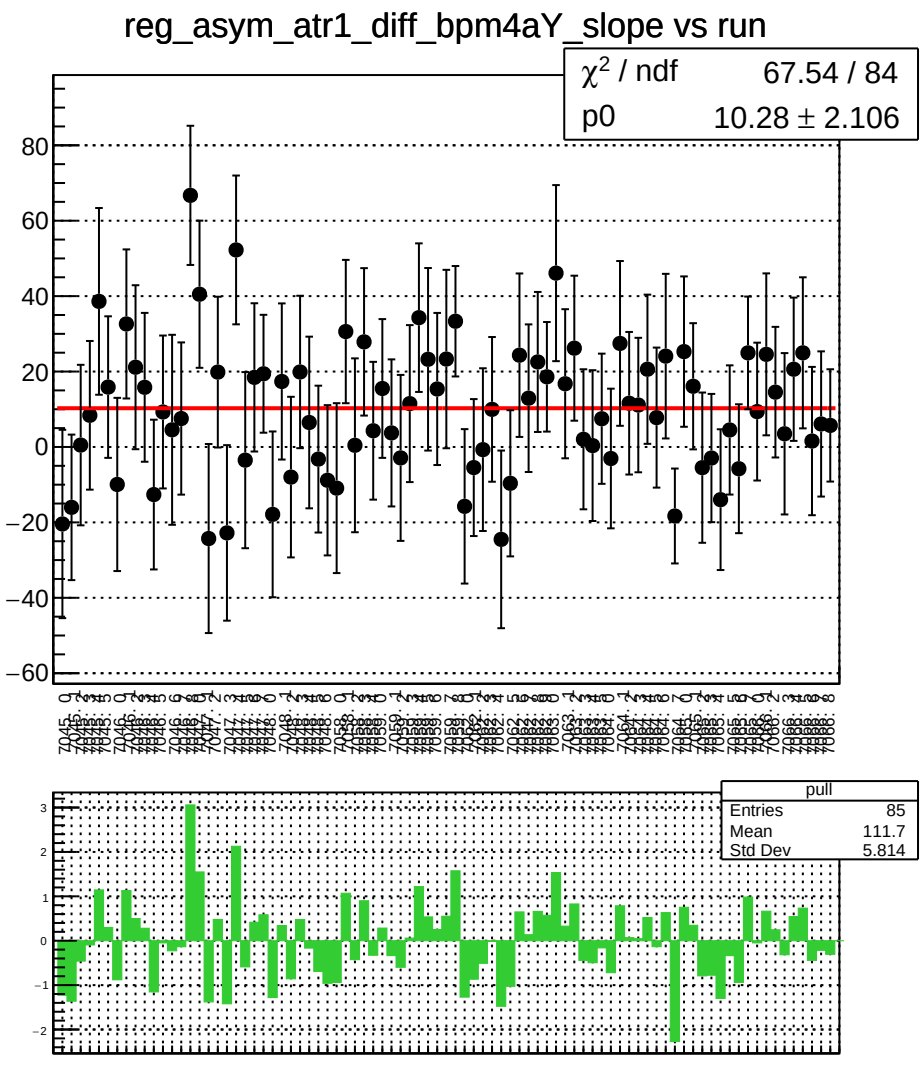

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.48 / 84
p0 179.1 ± 9.147
pull
Entries 85
Mean 528.9
Std Dev 0

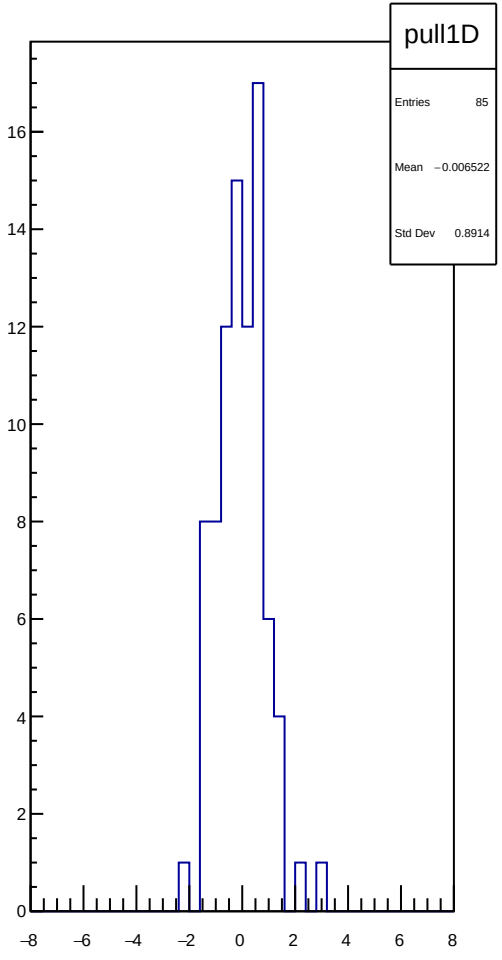

pull1D
Entries 85
Mean 0.008277
Std Dev 0.351

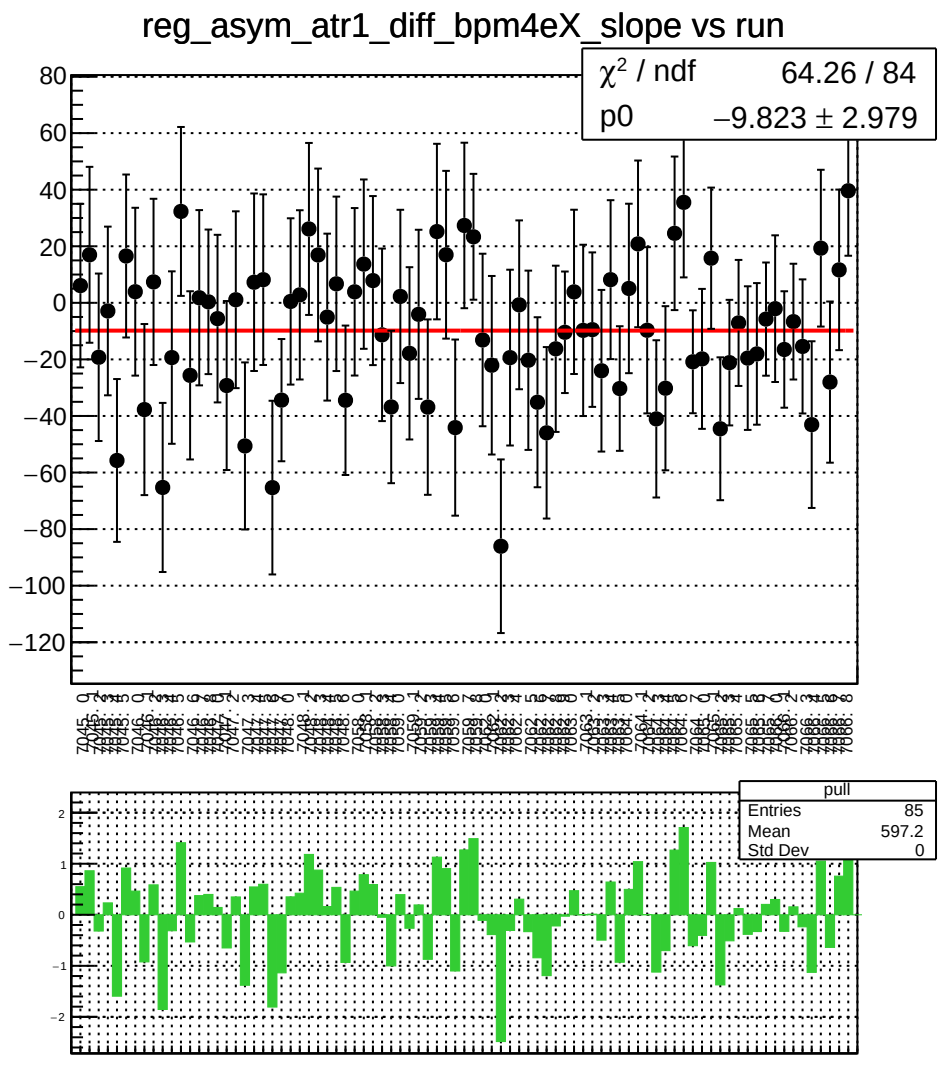

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 30.33 / 84
p0 −279.4 ± 0.4268
pull
Entries 85
Mean 374.3
Std Dev 0
pull1D
Entries 85
Mean 0.03221
Std Dev 0.5964

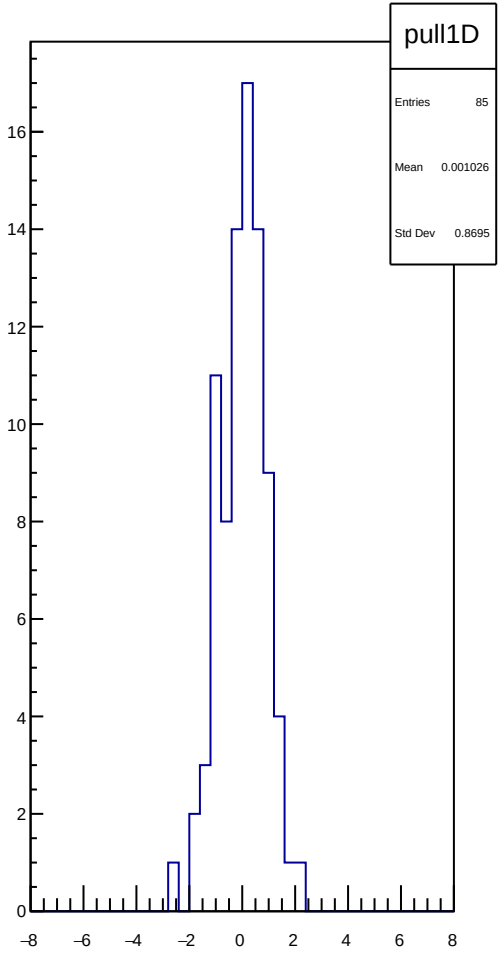

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 64.58 / 84
p0 −50.7 ± 3.121
50
0
−50
−100
−150
pull
Entries 85
Mean 4.629
Std Dev 73.67
2
1
0
−1
−2

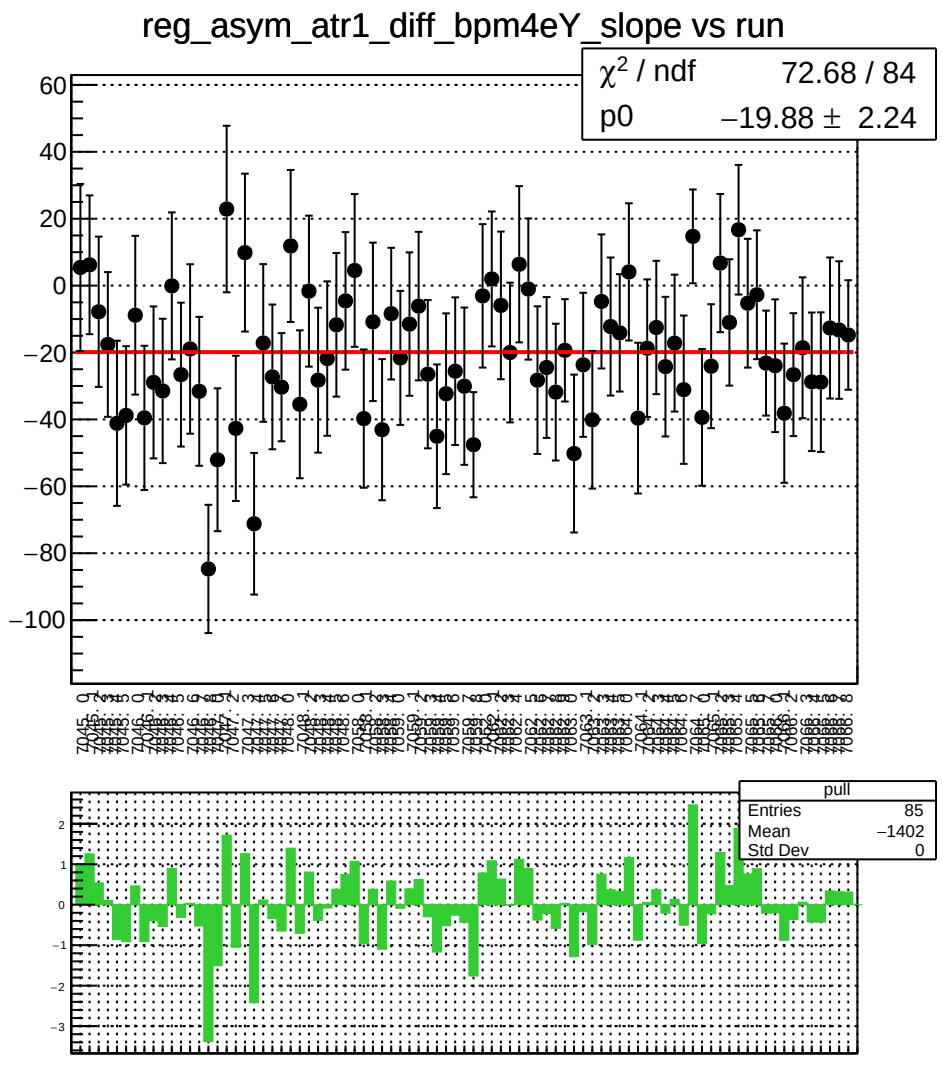

pull1D
Entries 85
Mean −0.006652
Std Dev 0.8716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

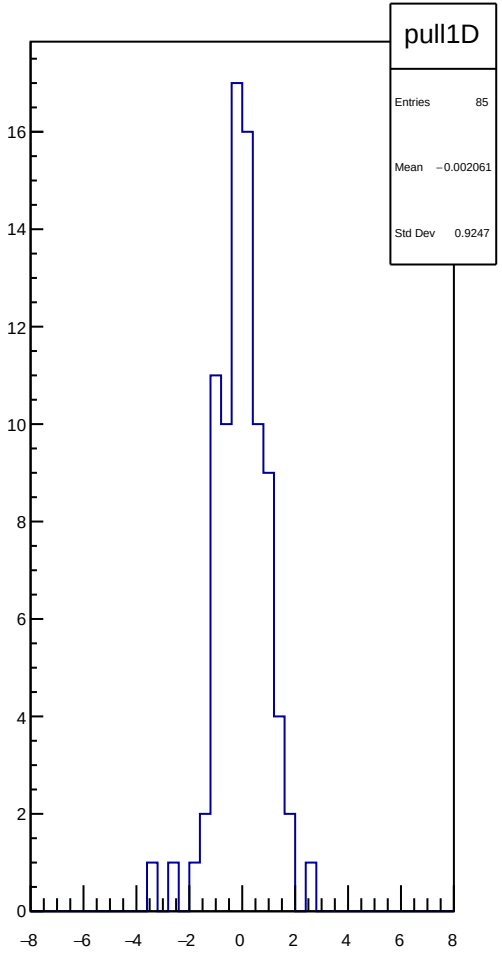

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 67.54 / 84
p0 10.28 ± 2.106
pull
Entries 85
Mean 111.7
Std Dev 5.814

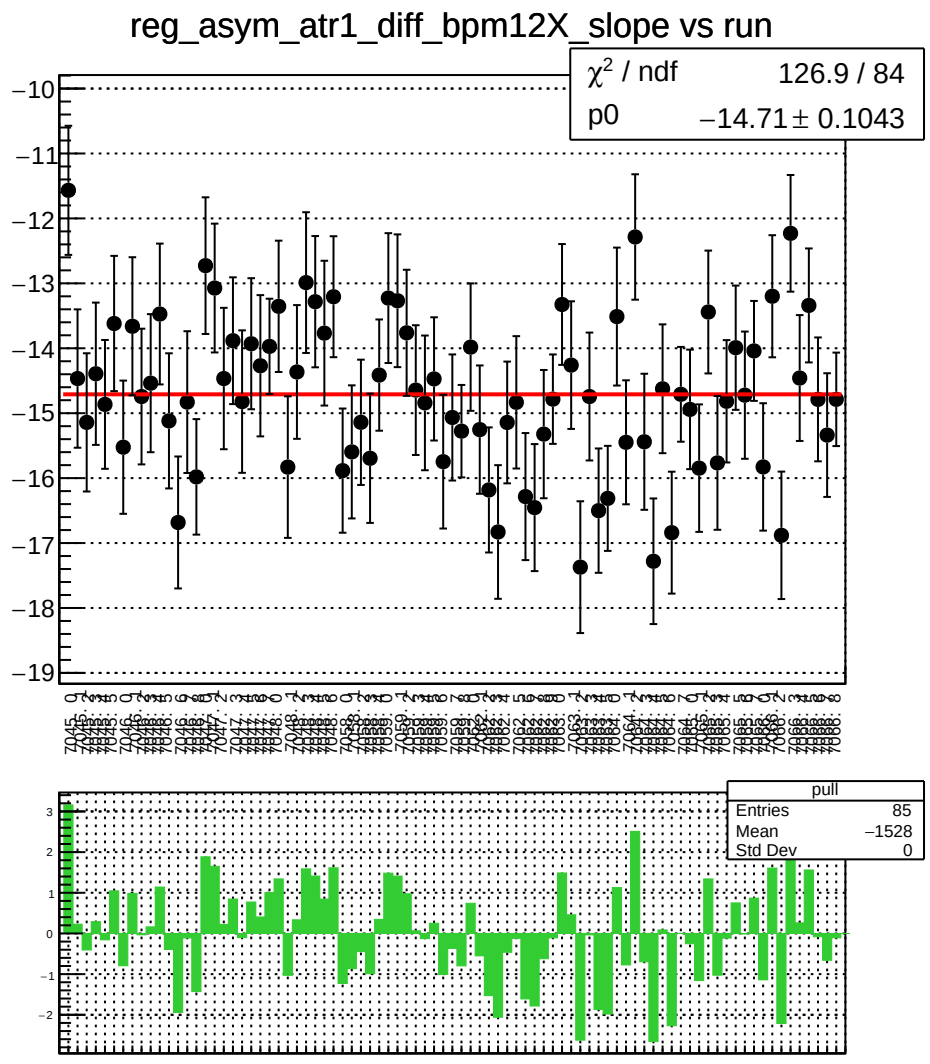

pull1D
Entries 85
Mean −0.006522
Std Dev 0.8914

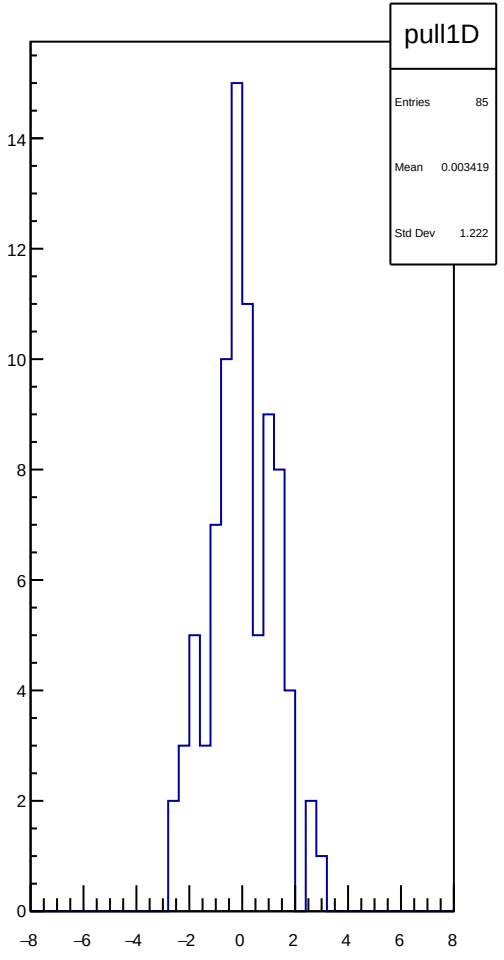

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 64.26 / 84
p0 −9.823 ± 2.979
pull
Entries 85
Mean 597.2
Std Dev 0

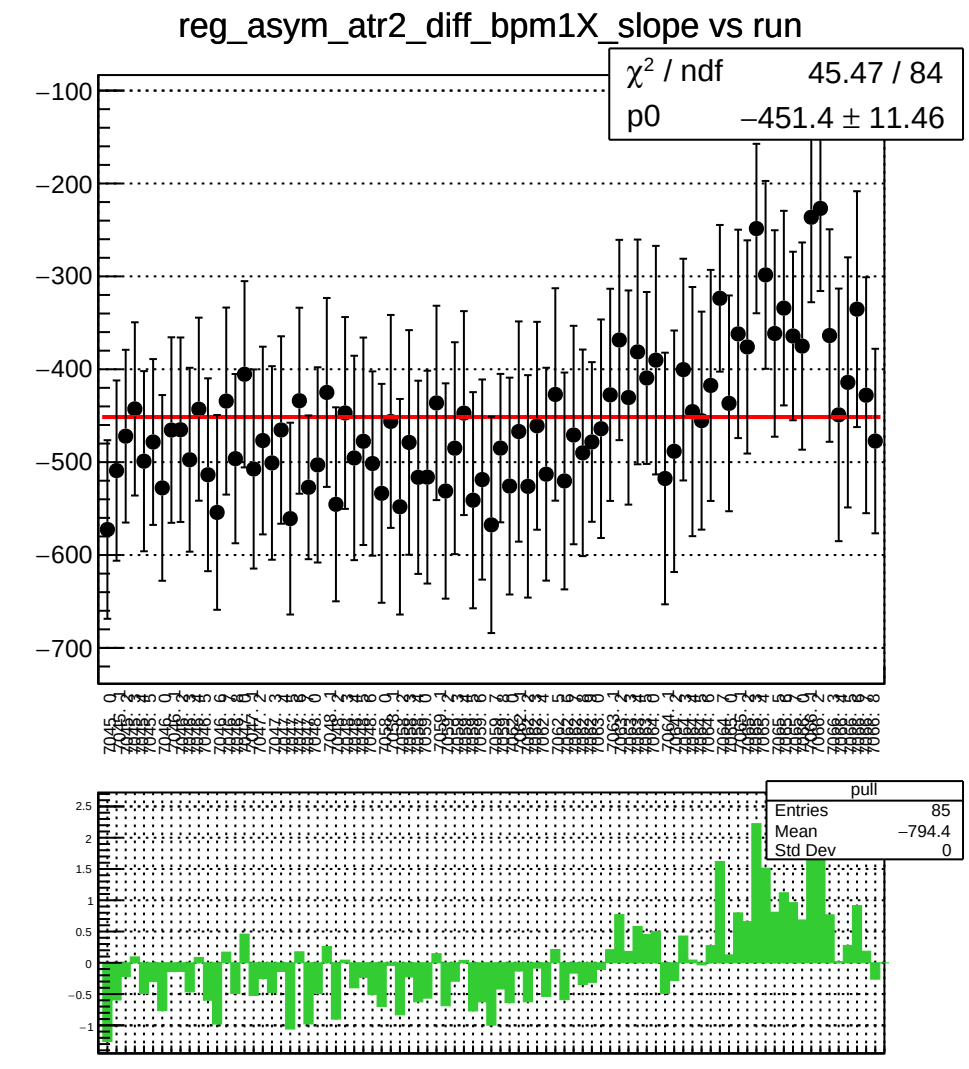

pull1D
Entries 85
Mean 0.001026
Std Dev 0.8695

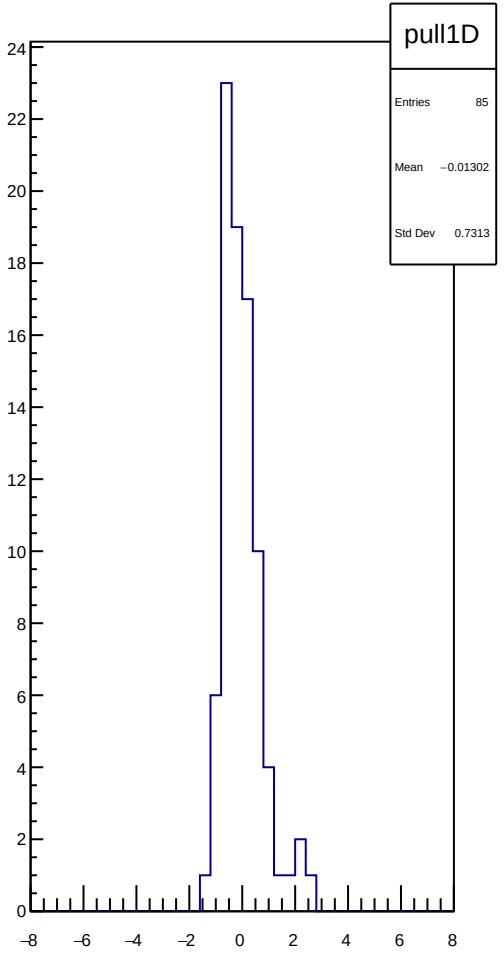

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 72.68 / 84
p0 −19.88 ± 2.24
pull
Entries 85
Mean −1402
Std Dev 0

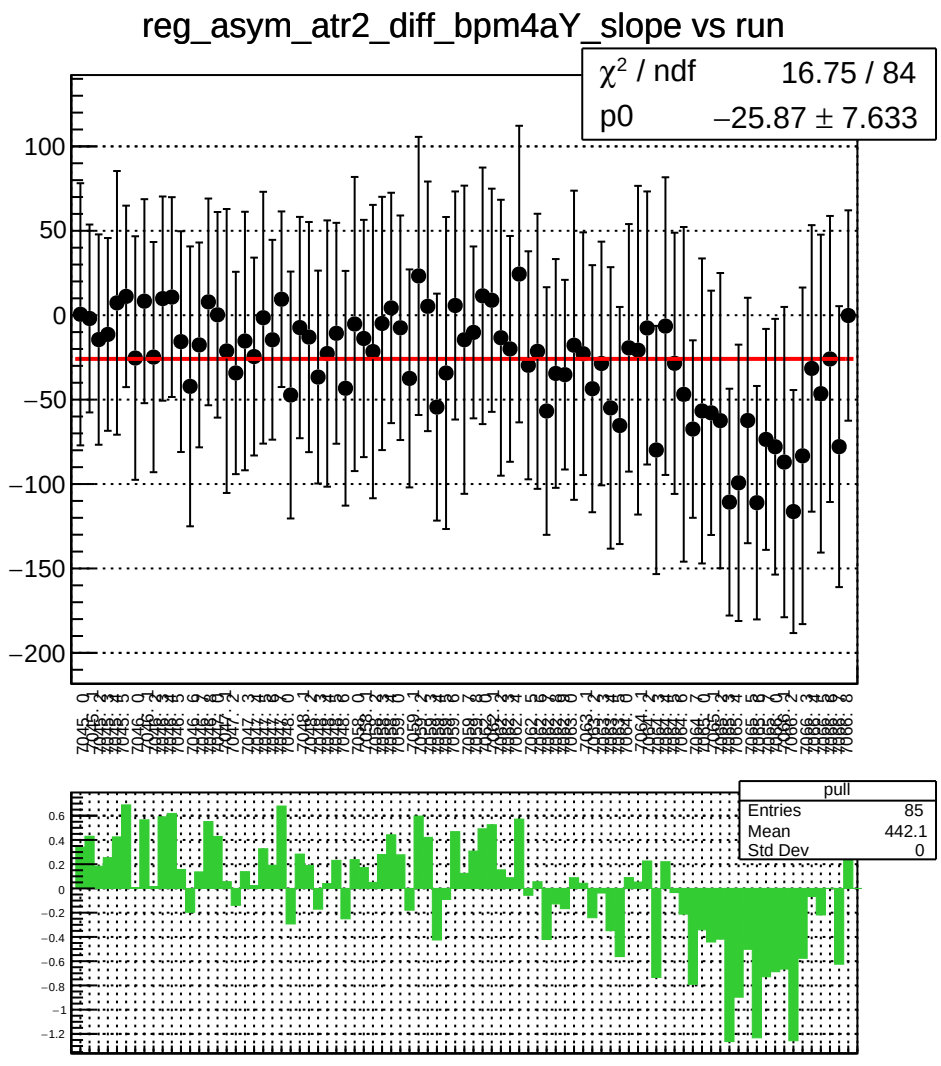

pull1D
Entries 85
Mean −0.002061
Std Dev 0.9247

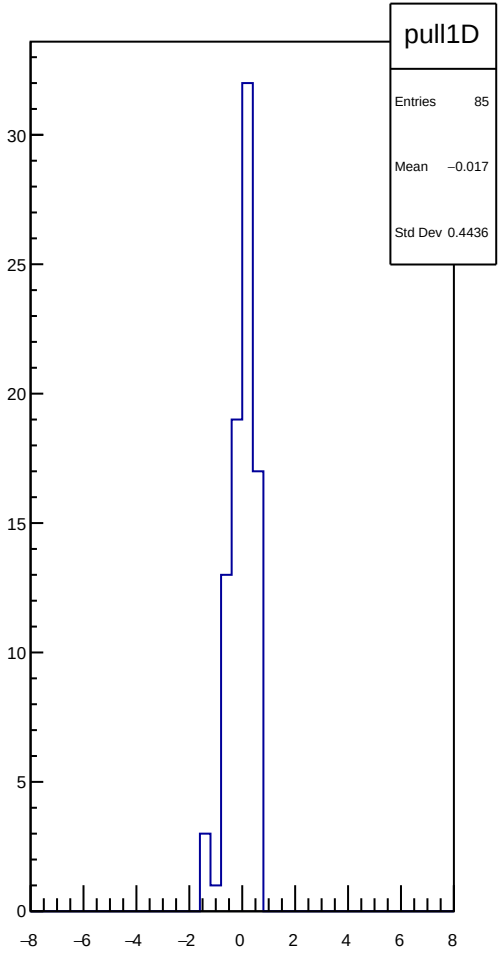

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 126.9 / 84
p0 −14.71 ± 0.1043
pull
Entries 85
Mean −1528
Std Dev 0

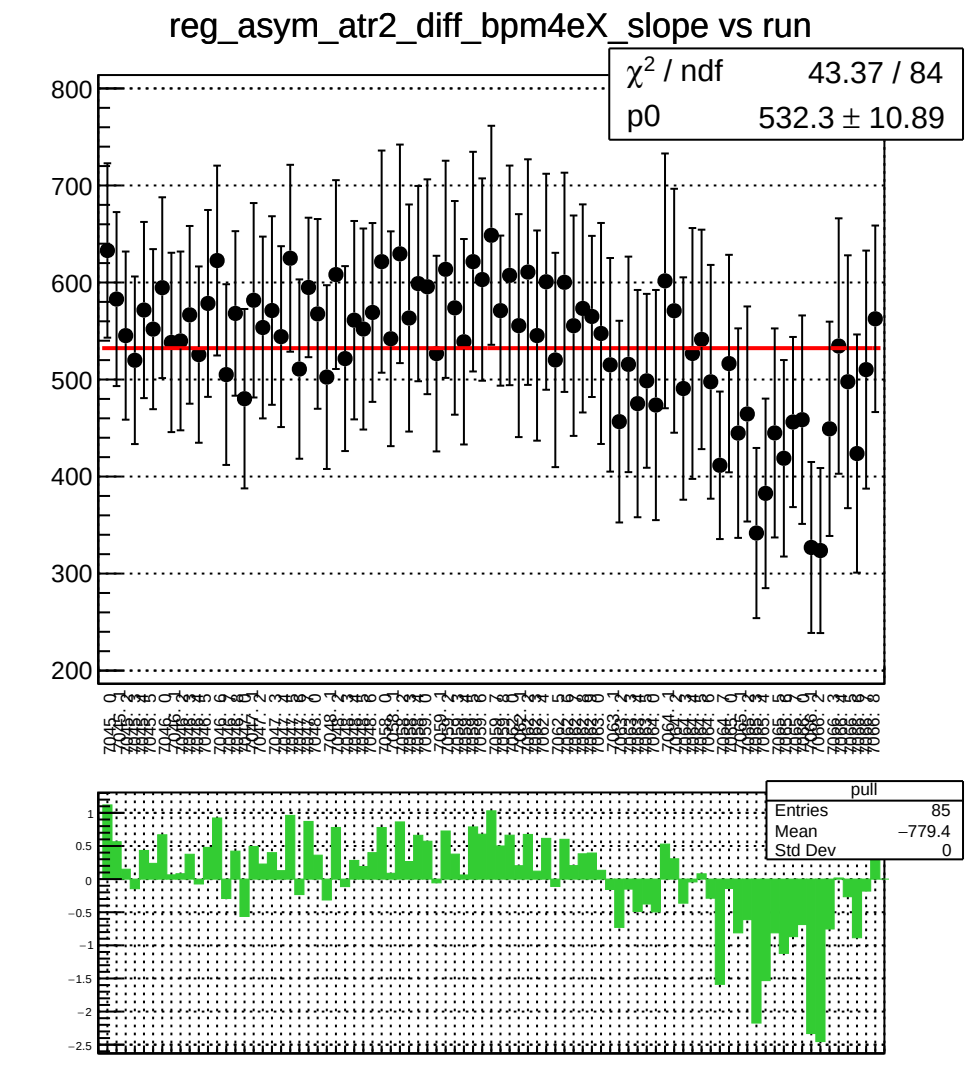

pull1D
Entries 85
Mean 0.003419
Std Dev 1.222

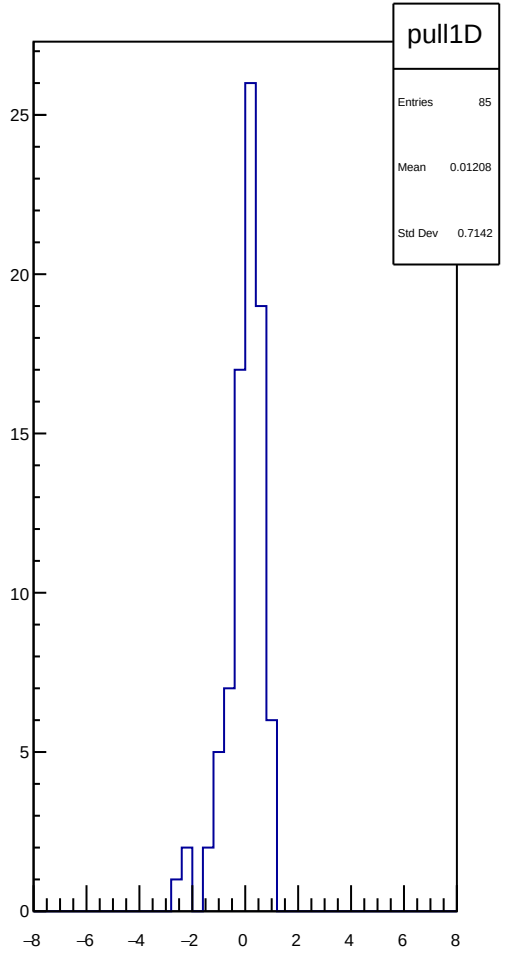

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 45.47 / 84
p0 −451.4 ± 11.46
pull
Entries 85
Mean −794.4
Std Dev 0

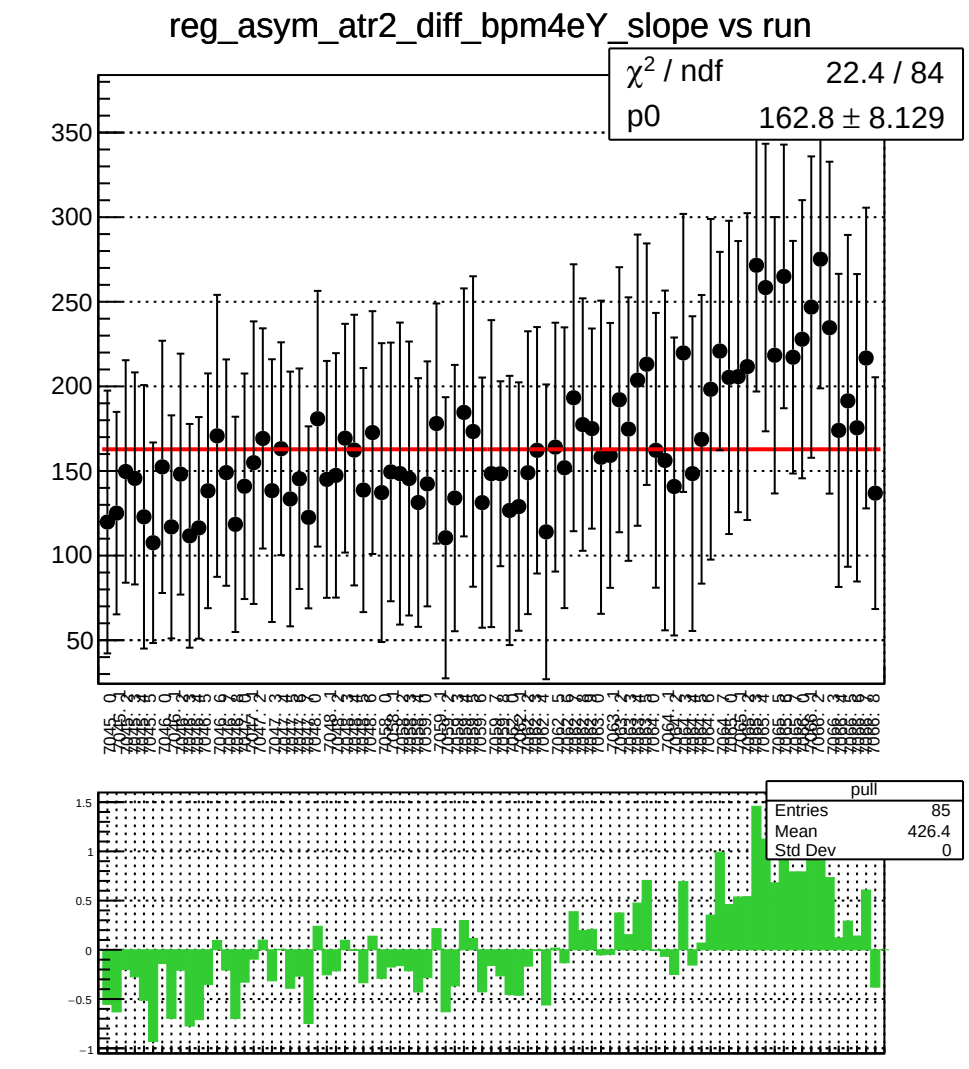

pull1D
Entries 85
Mean −0.01302
Std Dev 0.7313

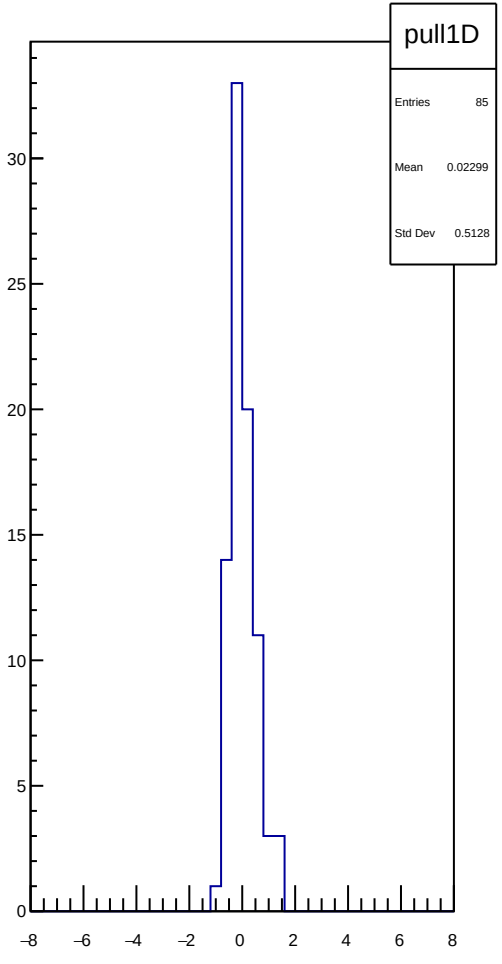

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 16.75 / 84
p0 −25.87 ± 7.633
pull
Entries 85
Mean 442.1
Std Dev 0

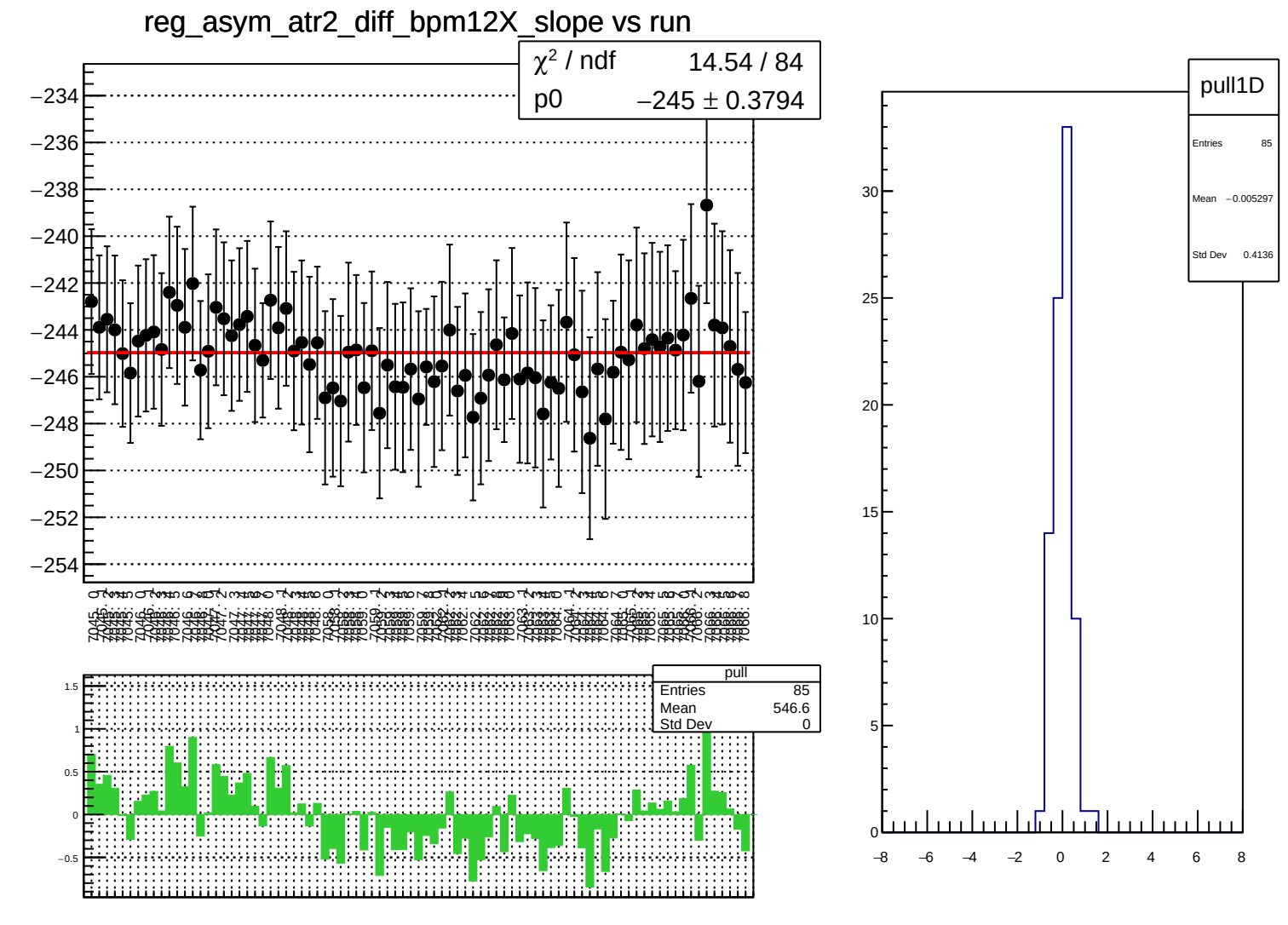

pull1D
Entries 85
Mean −0.017
Std Dev 0.4436

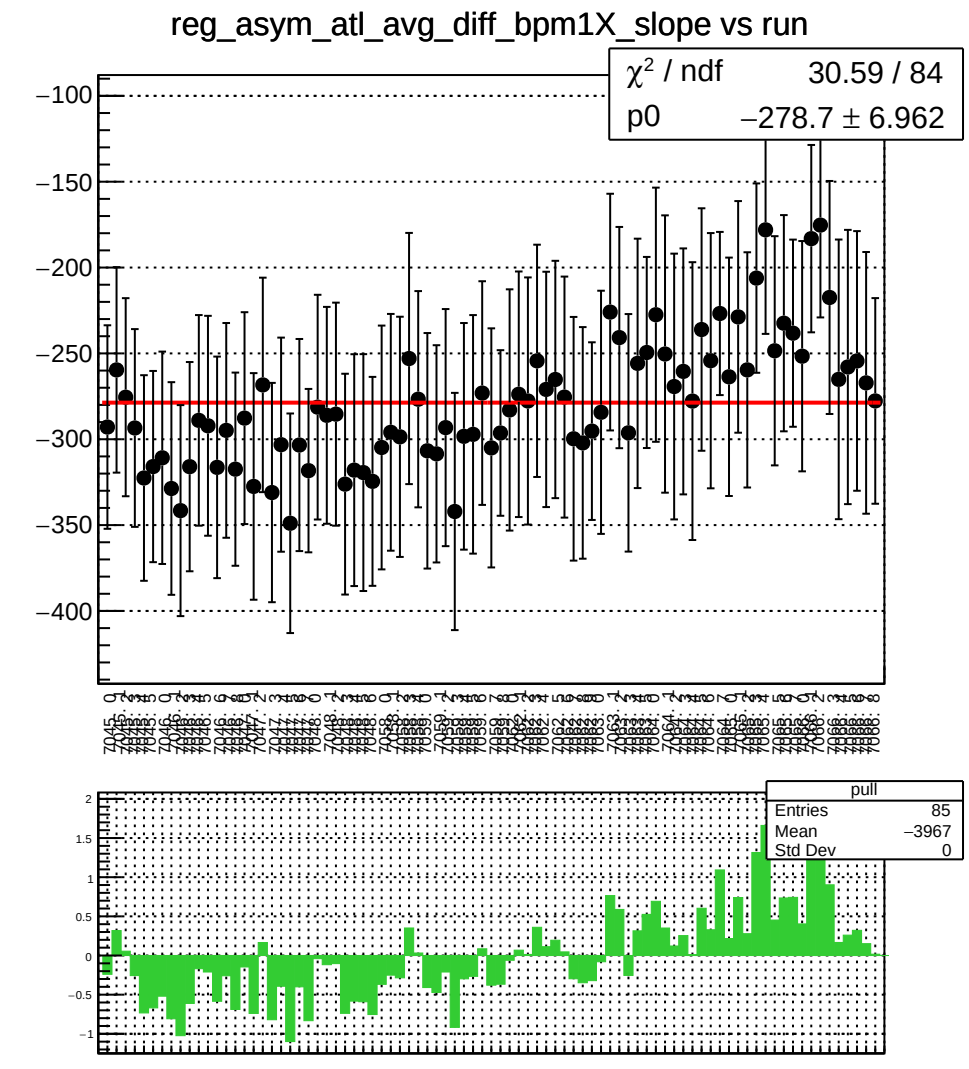

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 43.37 / 84
p0 532.3 ± 10.89
800
700
600
500
400
300
200
pull
Entries 85
Mean −779.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

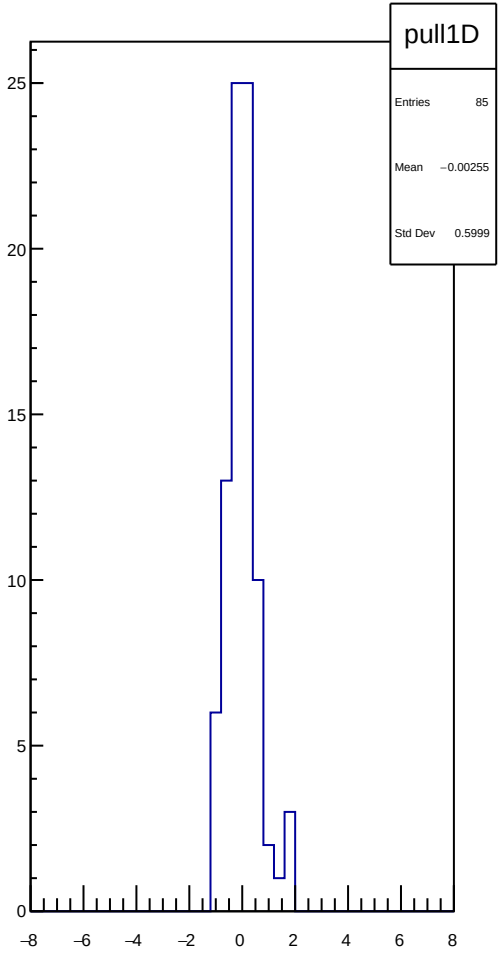

pull1D
Entries 85
Mean 0.01208
Std Dev 0.7142
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

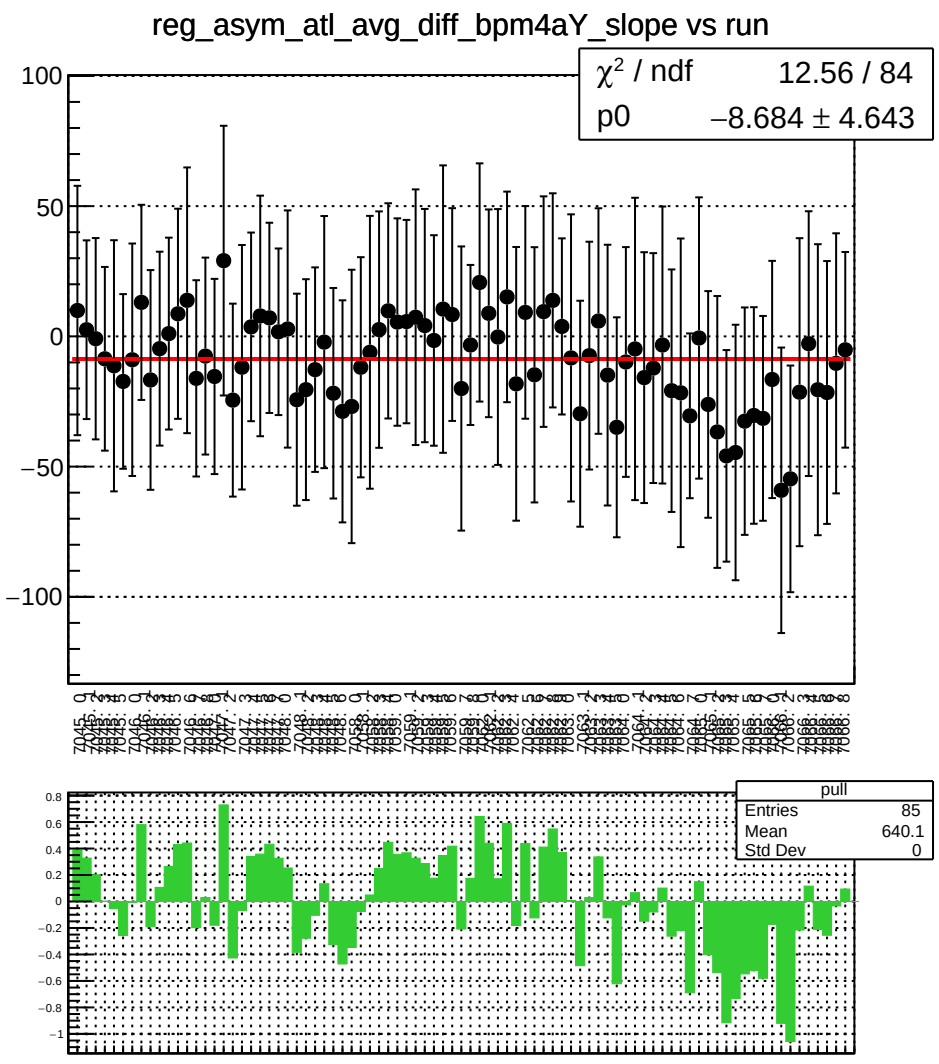

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 22.4 / 84
p0 162.8 ± 8.129
pull
Entries 85
Mean 426.4
Std Dev 0

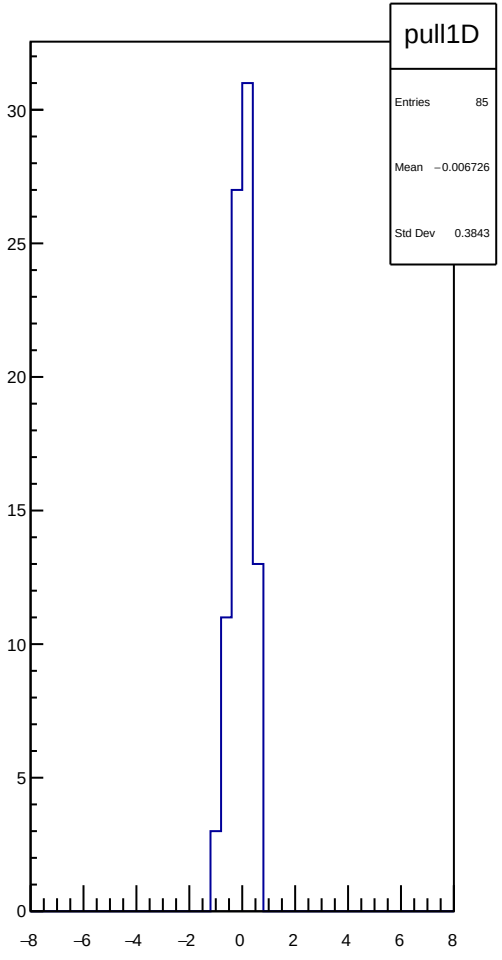

pull1D
Entries 85
Mean 0.02299
Std Dev 0.5128

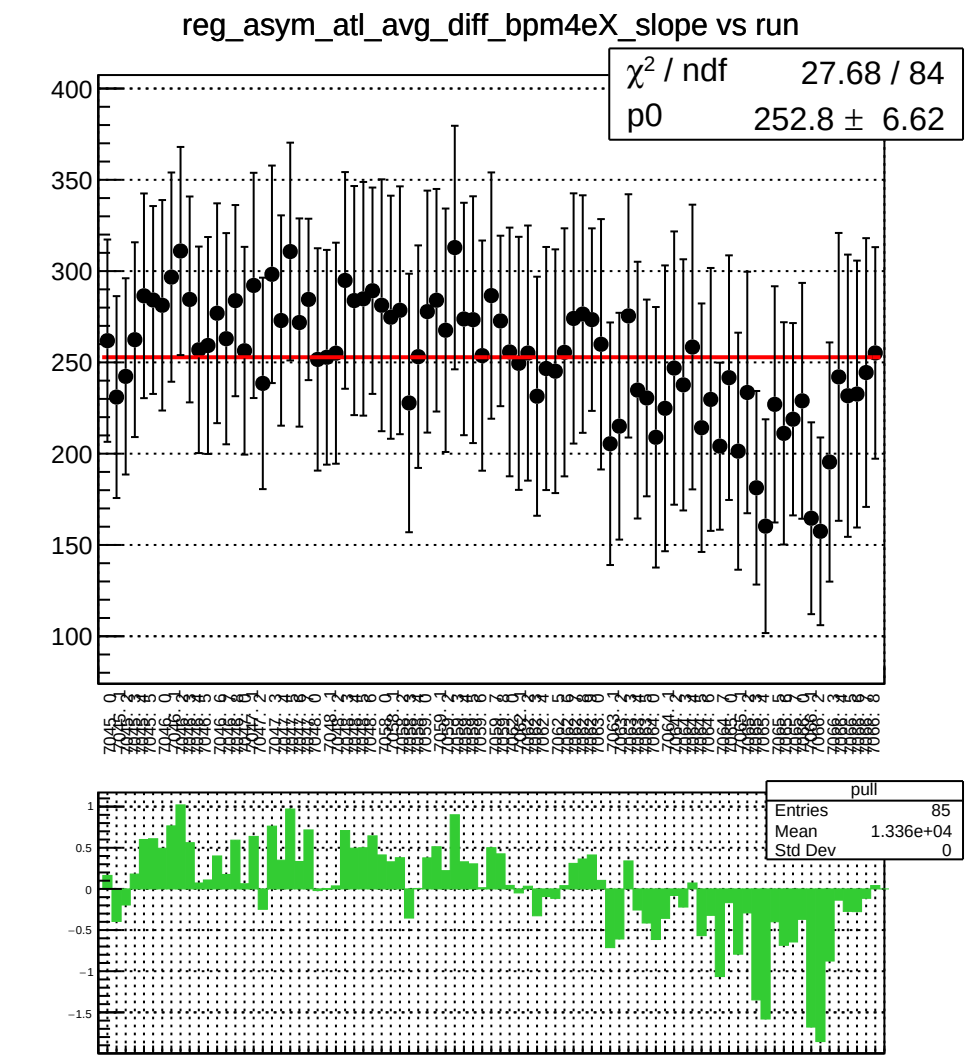

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 14.54 / 84
p0 −245 ± 0.3794
−234
−236
−238
−240
−242
−244
−246
−248
−250
−252
−254
pull
Entries 85
Mean 546.6
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 85
Mean −0.005297
Std Dev 0.4136
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

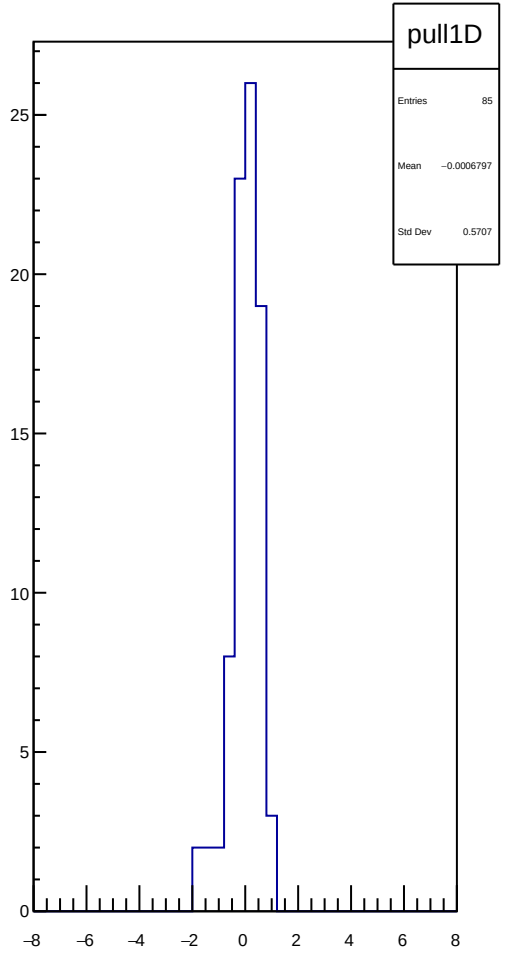

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 30.59 / 84
p0 −278.7 ± 6.962
pull
Entries 85
Mean −3967
Std Dev 0

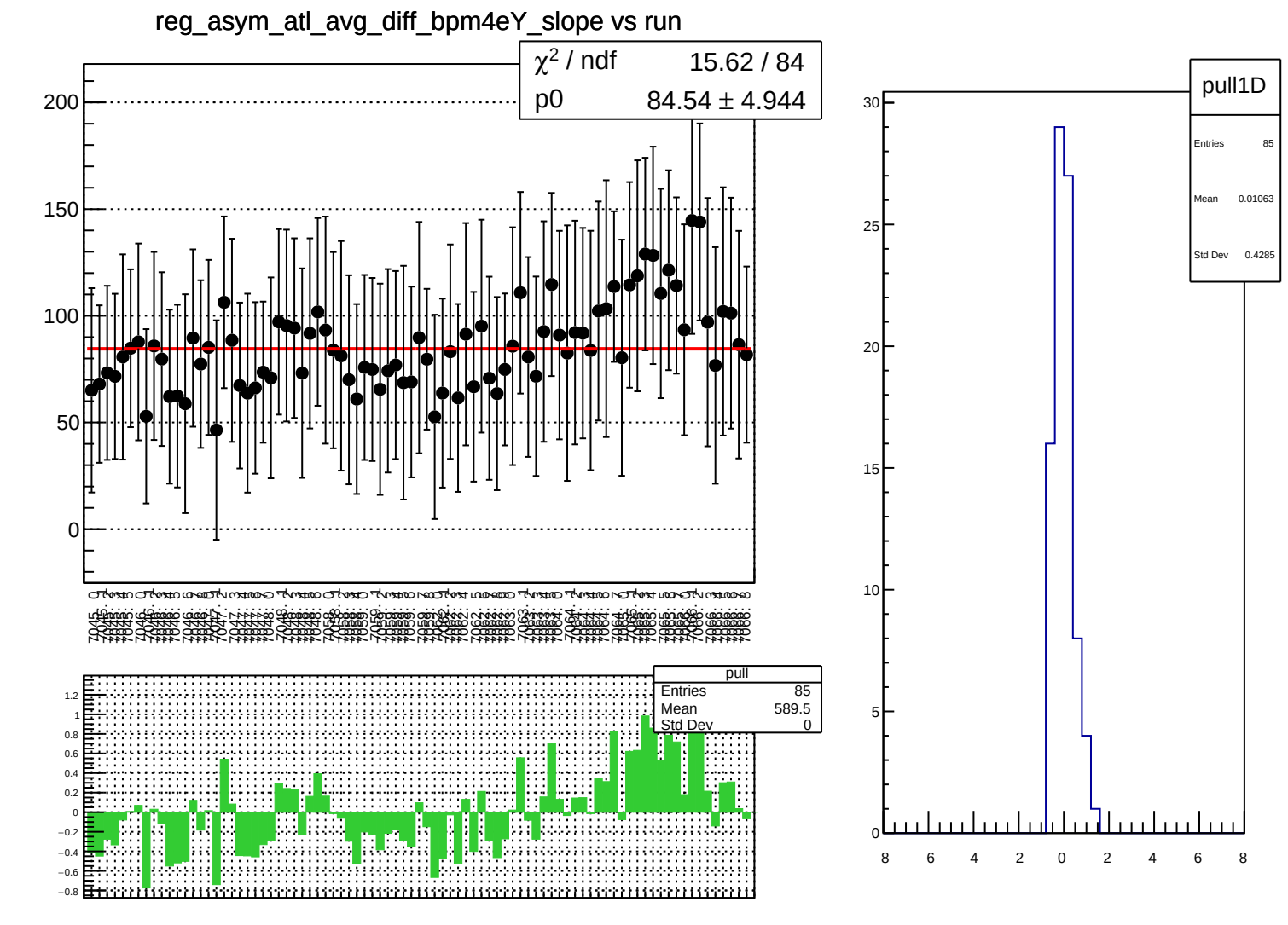

pull1D
Entries 85
Mean −0.00255
Std Dev 0.5999

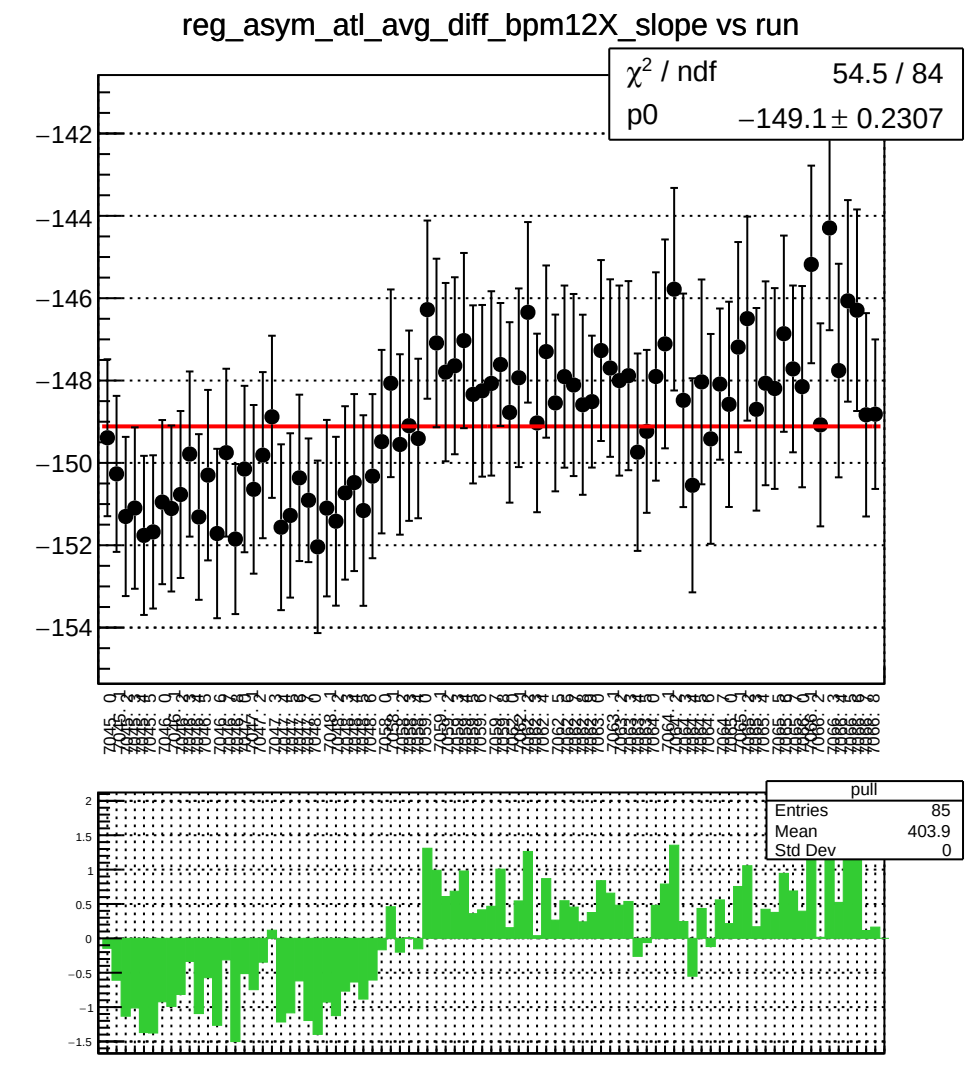

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.56 / 84
p0 −8.684 ± 4.643
pull
Entries 85
Mean 640.1
Std Dev 0

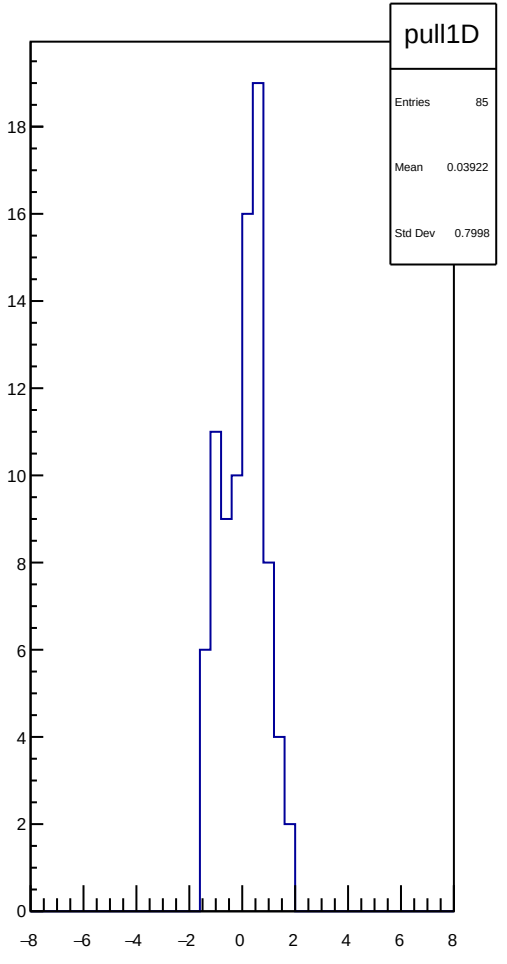

pull1D
Entries 85
Mean −0.006726
Std Dev 0.3843

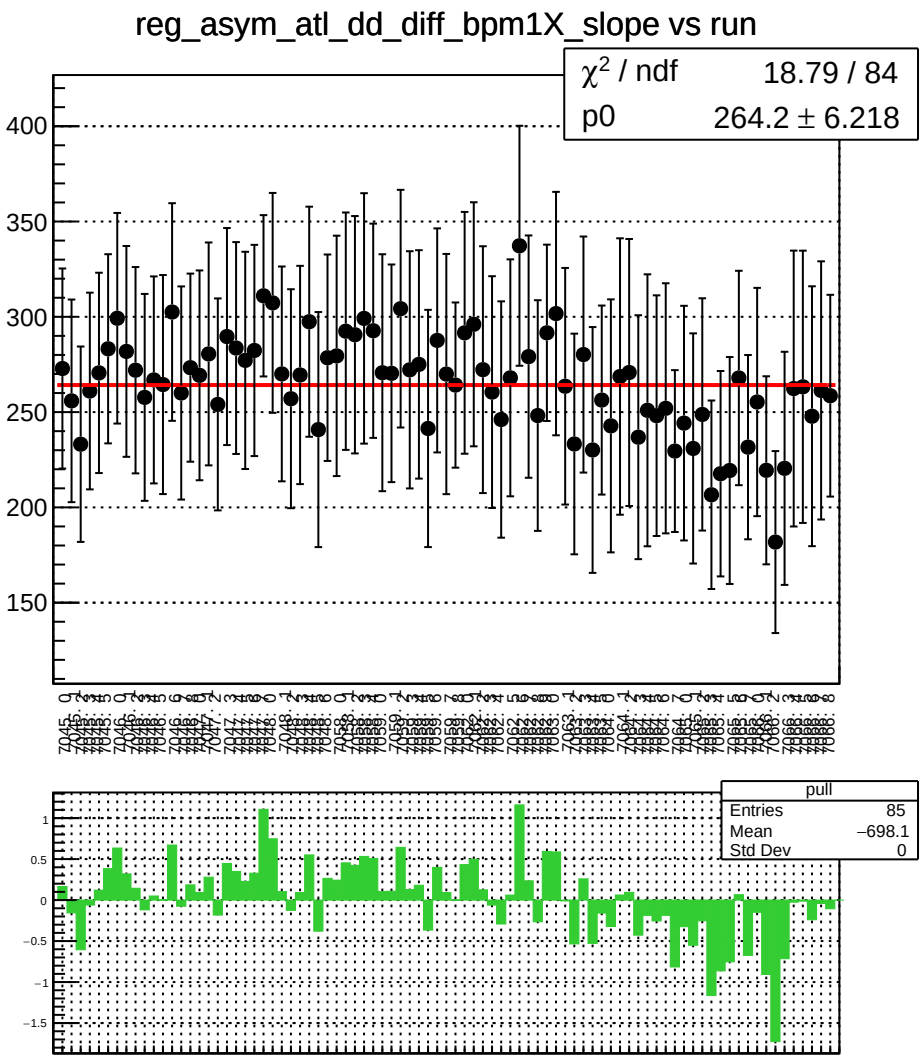

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.68 / 84
p0 252.8 ± 6.62
pull
Entries 85
Mean 1.336e+04
Std Dev 0

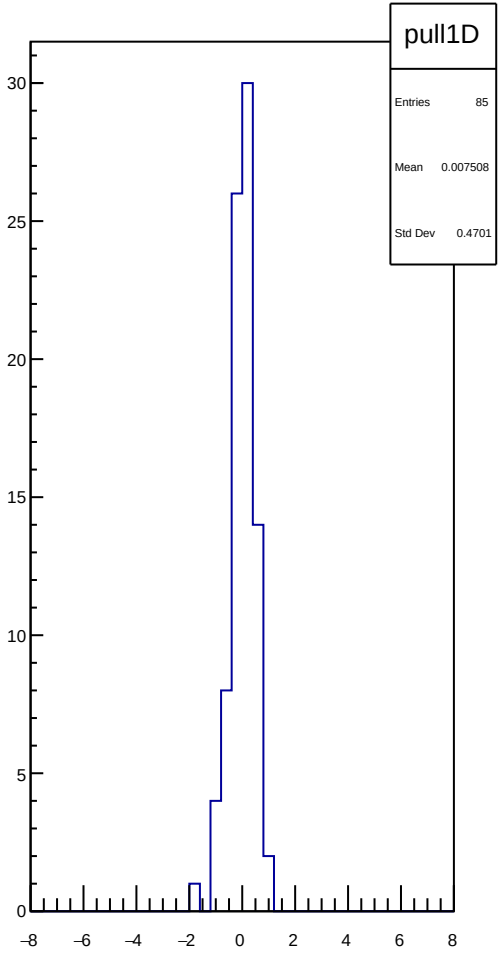

pull1D
Entries 85
Mean −0.0006797
Std Dev 0.5707

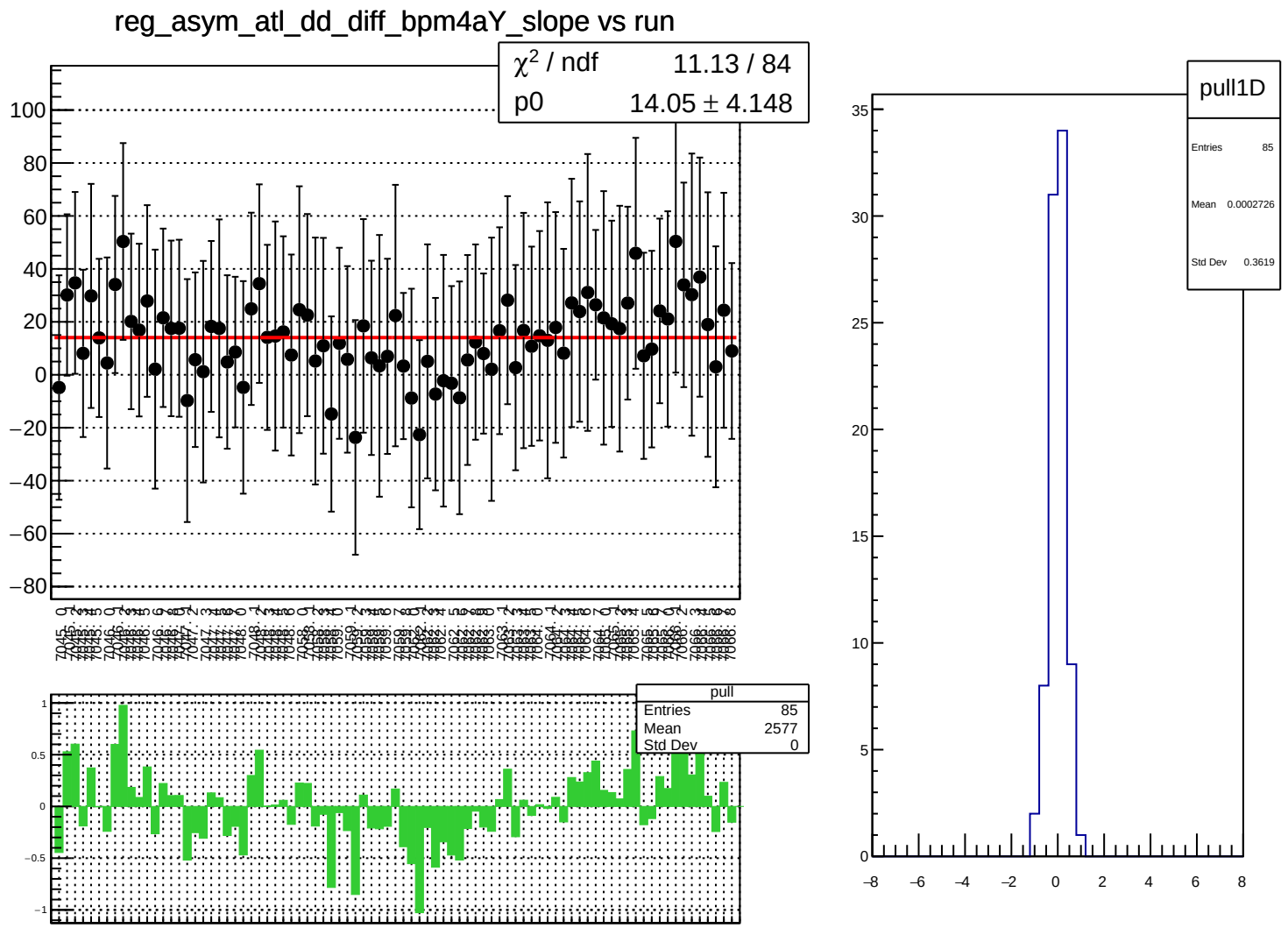

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.62 / 84
p0 84.54 ± 4.944
pull
Entries 85
Mean 589.5
Std Dev 0
pull1D
Entries 85
Mean 0.01063
Std Dev 0.4285

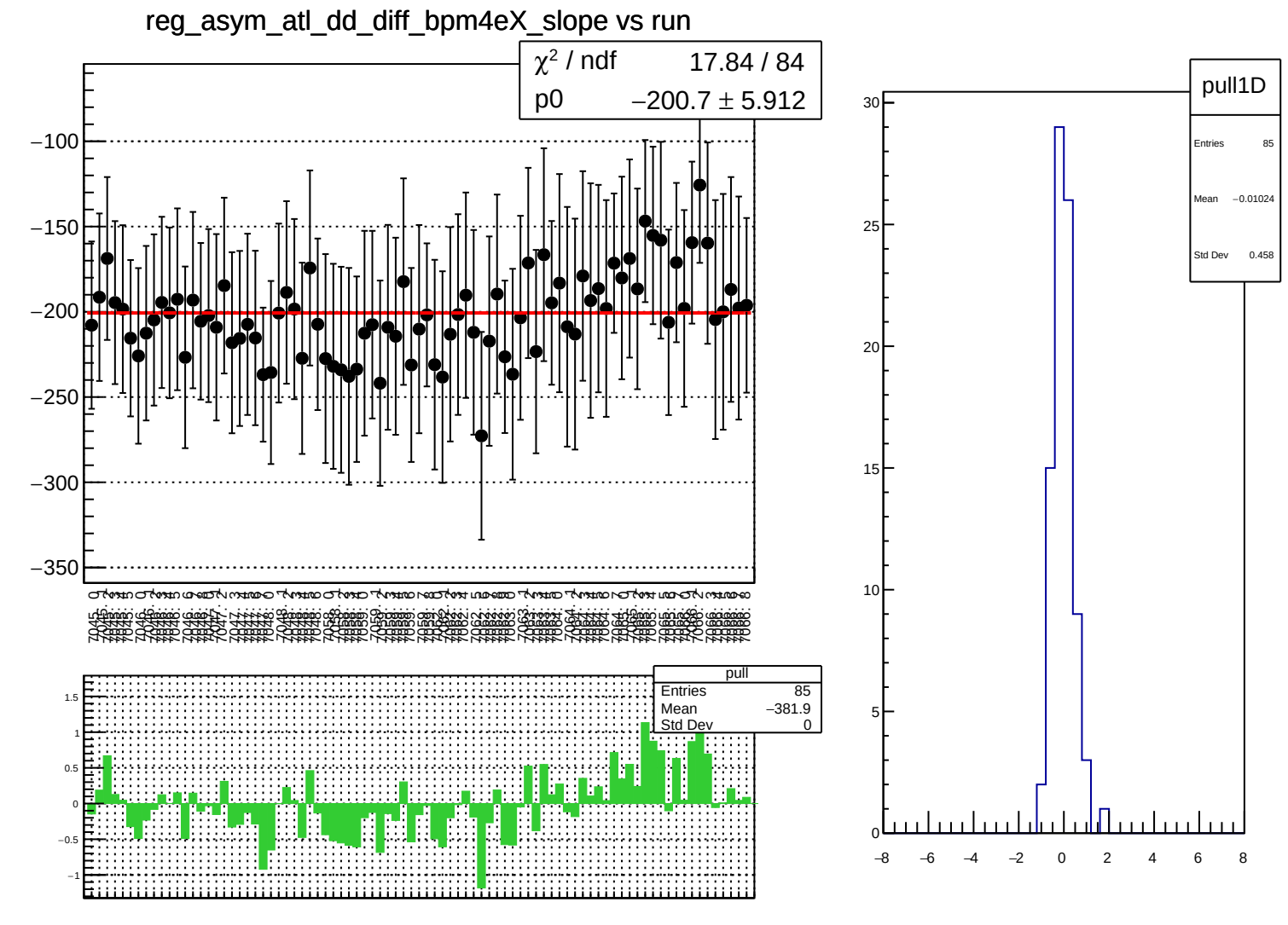

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 54.5 / 84
p0 −149.1 ± 0.2307
−142
−144
−146
−148
−150
−152
−154
pull
Entries 85
Mean 403.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

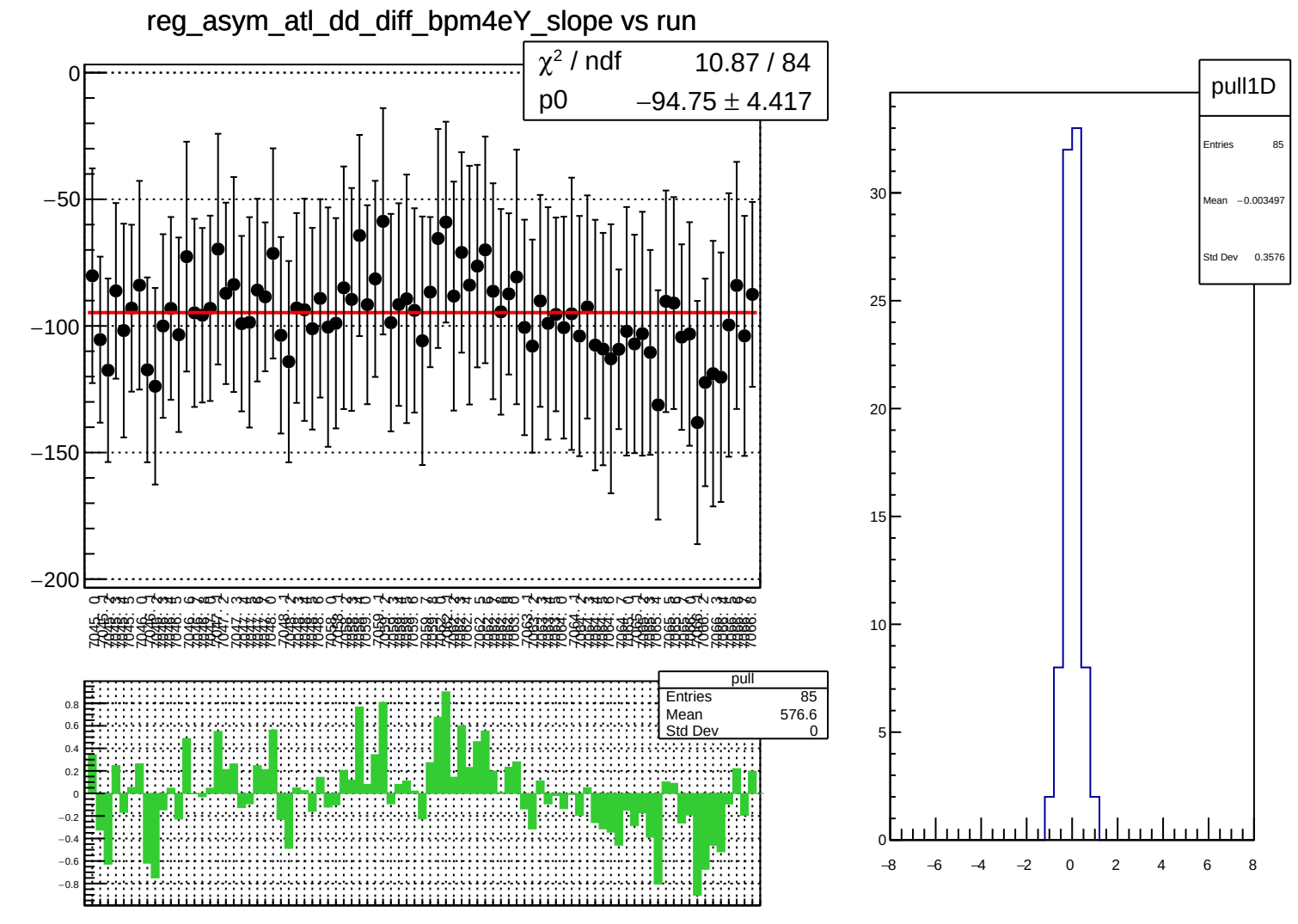

pull1D
Entries 85
Mean 0.03922
Std Dev 0.7998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

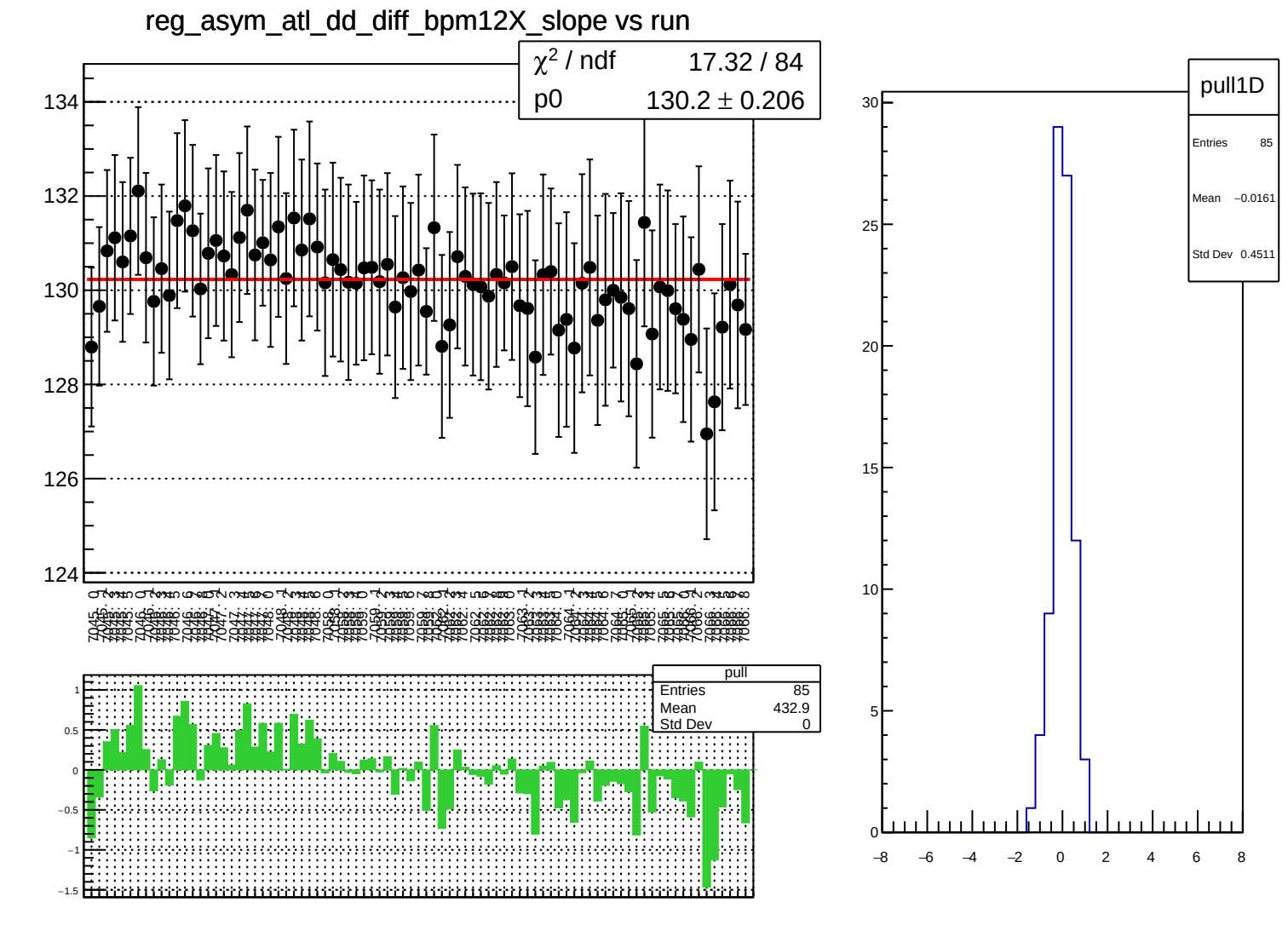

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 18.79 / 84
p0 264.2 ± 6.218
pull
Entries 85
Mean −698.1
Std Dev 0

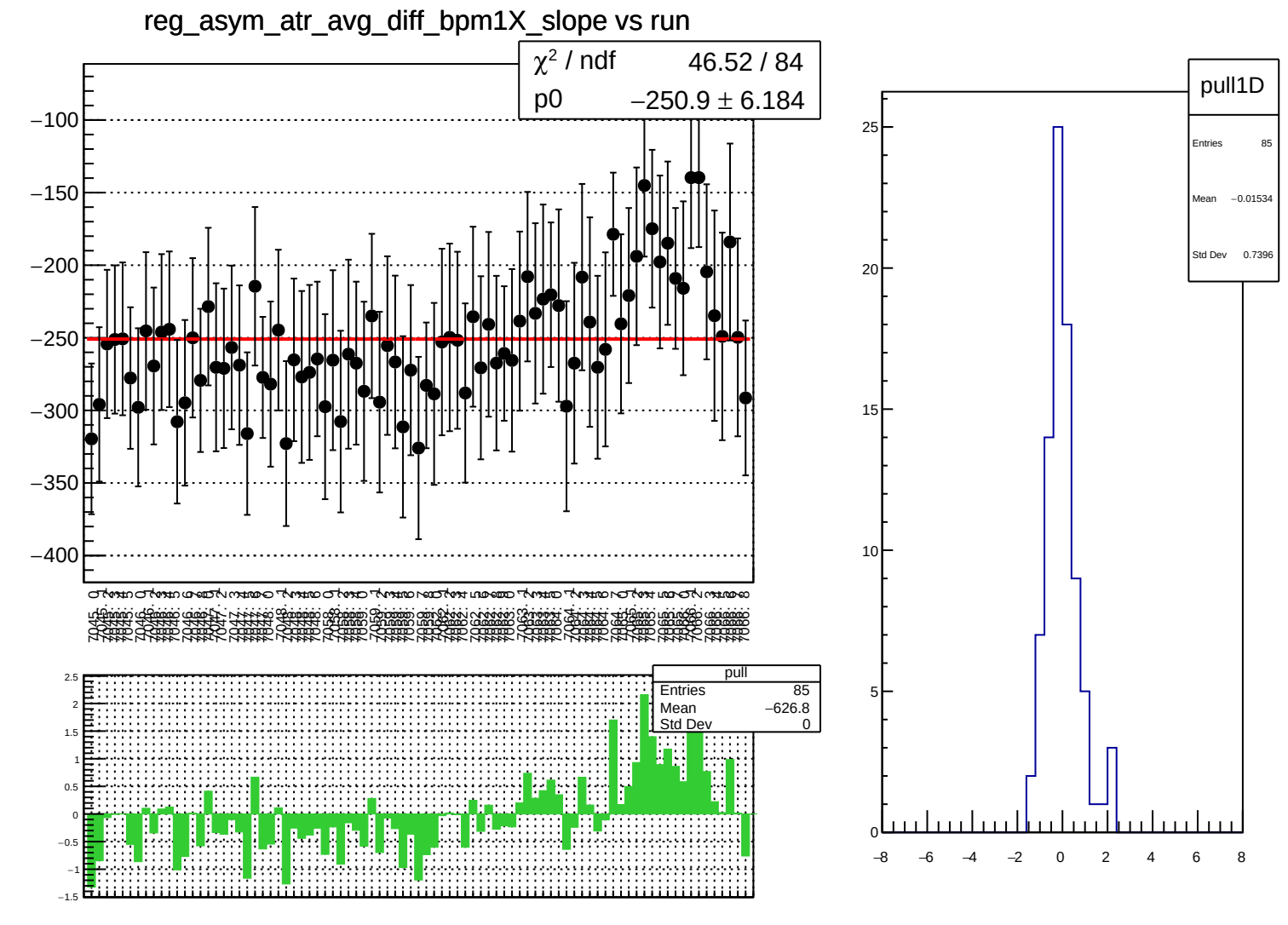

pull1D
Entries 85
Mean 0.007508
Std Dev 0.4701

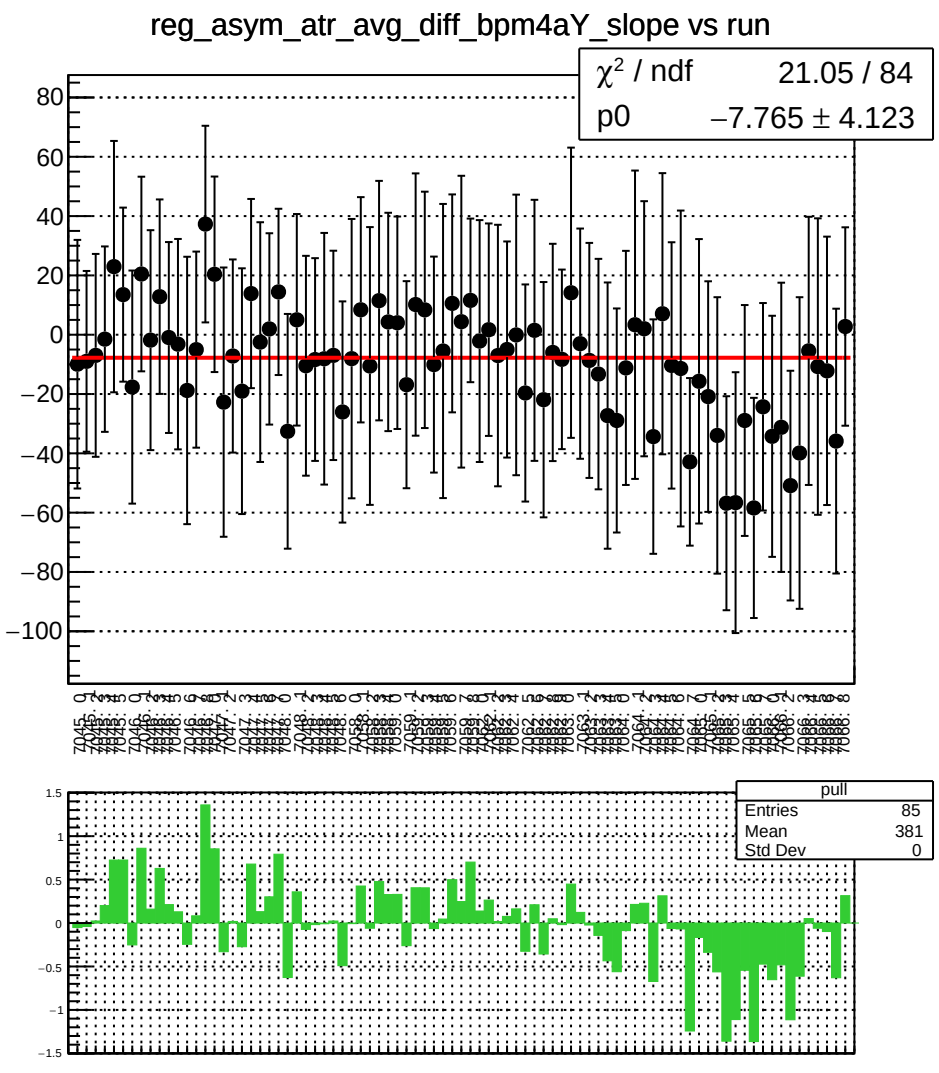

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.13 / 84
p0 14.05 ± 4.148
pull
Entries 85
Mean 2577
Std Dev 0
pull1D
Entries 85
Mean 0.0002726
Std Dev 0.3619

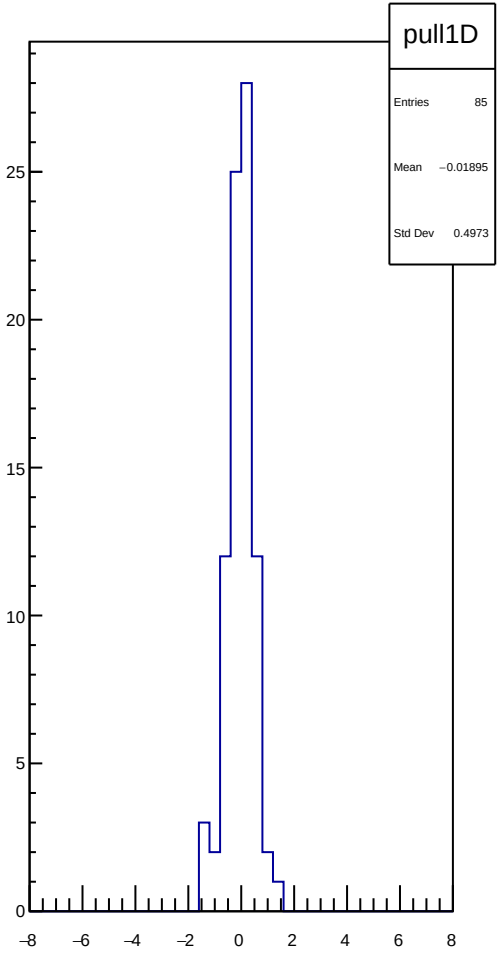

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.84 / 84
p0 −200.7 ± 5.912
−100
−150
−200
−250
−300
−350
pull
Entries 85
Mean −381.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.01024
Std Dev 0.458
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

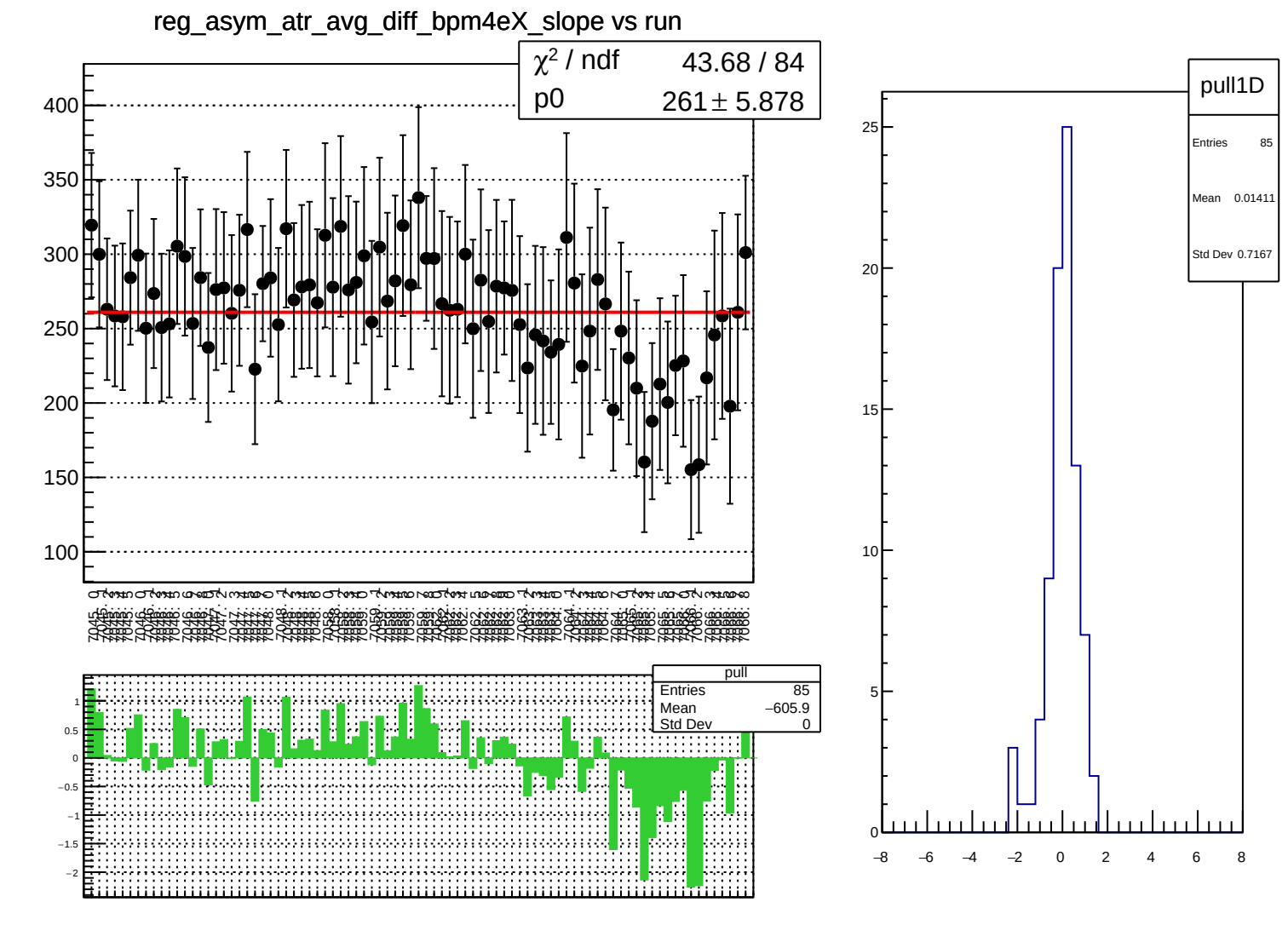

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.87 / 84
p0 −94.75 ± 4.417
pull
Entries 85
Mean 576.6
Std Dev 0
pull1D
Entries 85
Mean −0.003497
Std Dev 0.3576

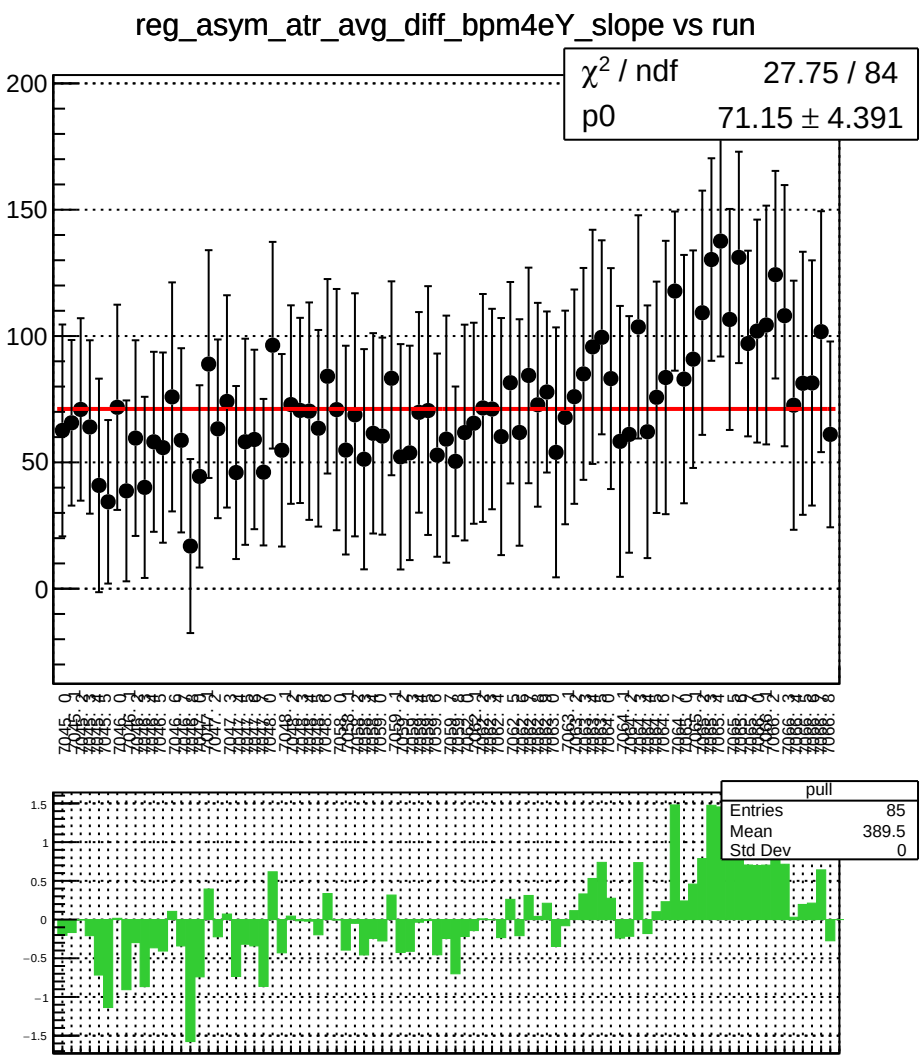

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.32 / 84
p0 130.2 ± 0.206
134
132
130
128
126
124
pull
Entries 85
Mean 432.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.0161
Std Dev 0.4511
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

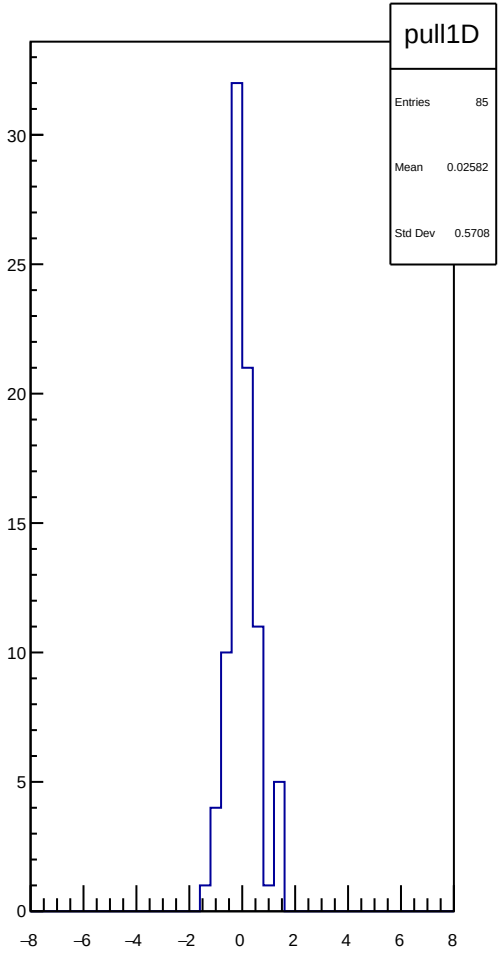

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 46.52 / 84
p0 −250.9 ± 6.184
pull
Entries 85
Mean −626.8
Std Dev 0
pull1D
Entries 85
Mean −0.01534
Std Dev 0.7396

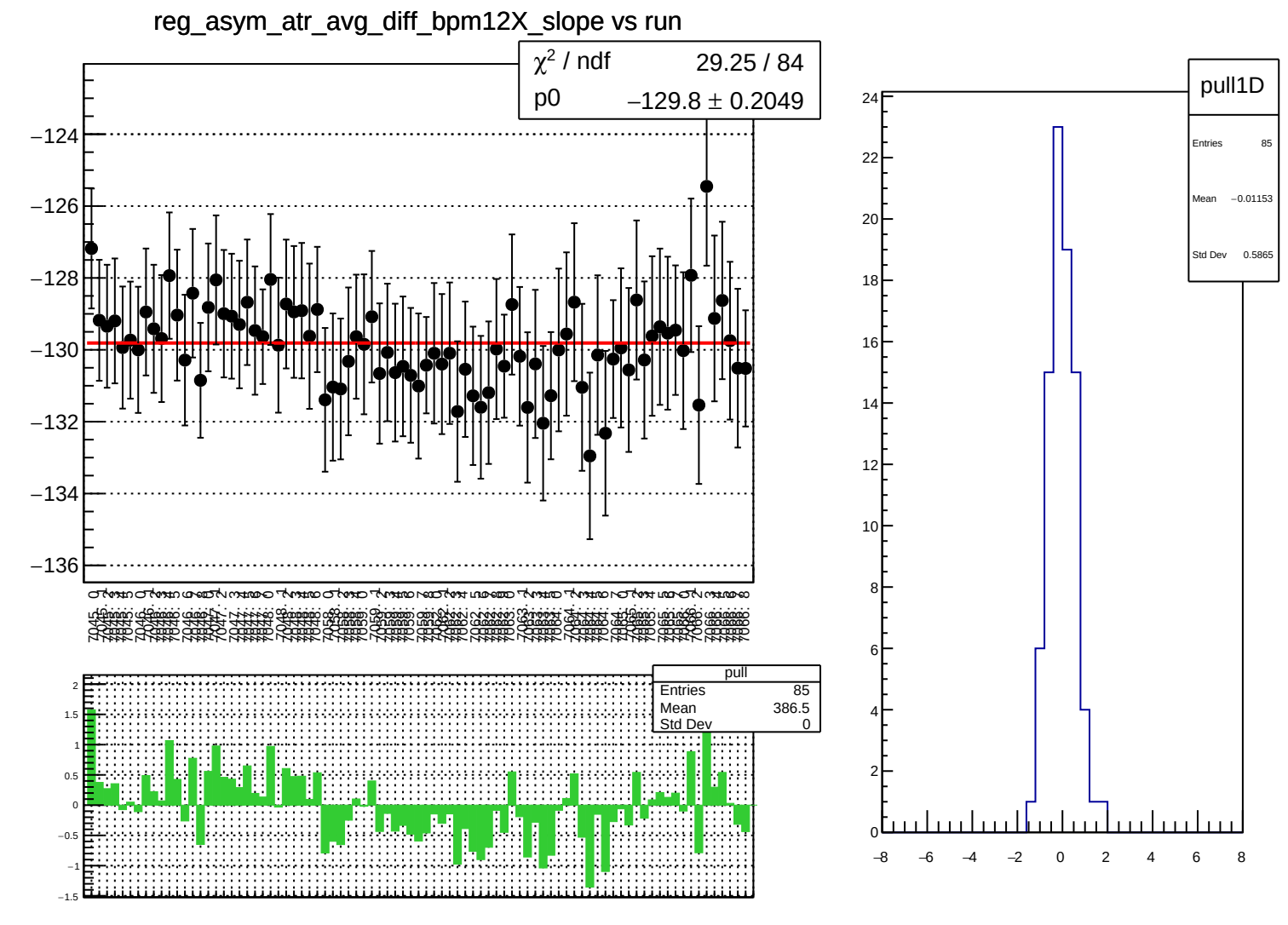

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.05 / 84
p0 −7.765 ± 4.123
pull
Entries 85
Mean 381
Std Dev 0

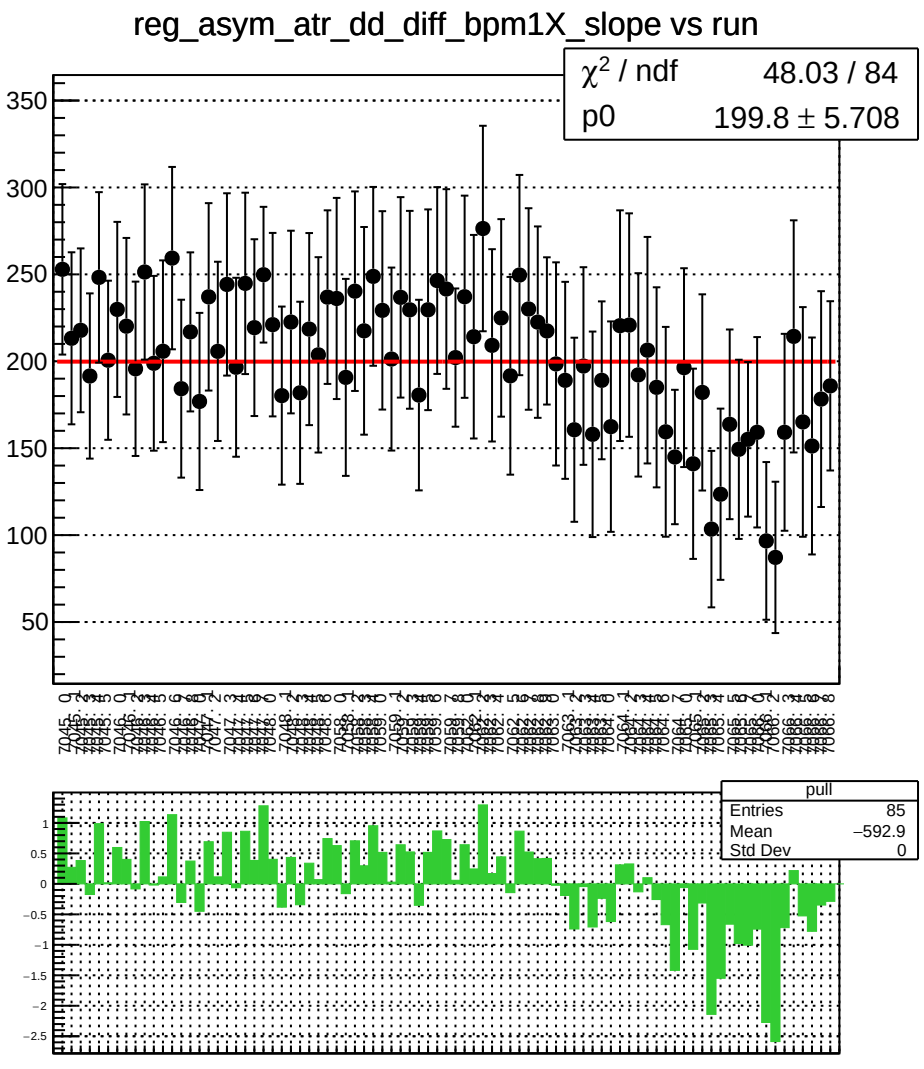

pull1D
Entries 85
Mean −0.01895
Std Dev 0.4973

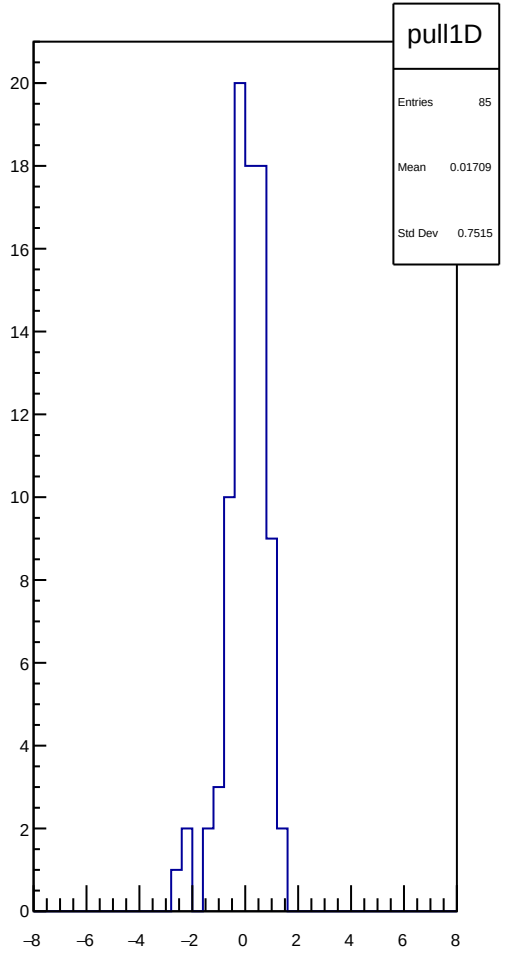

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.68 / 84
p0 261 ± 5.878
pull
Entries 85
Mean −605.9
Std Dev 0
pull1D
Entries 85
Mean 0.01411
Std Dev 0.7167

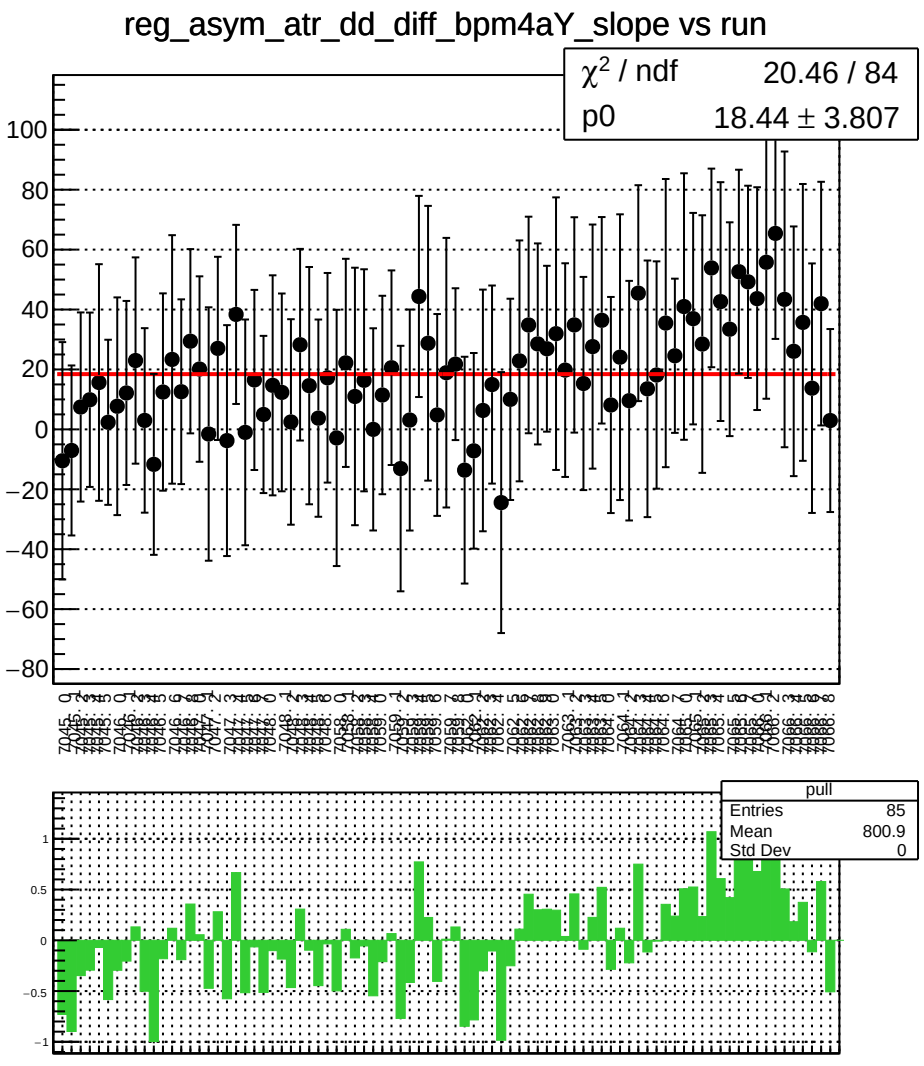

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.75 / 84
p0 71.15 ± 4.391
pull
Entries 85
Mean 389.5
Std Dev 0

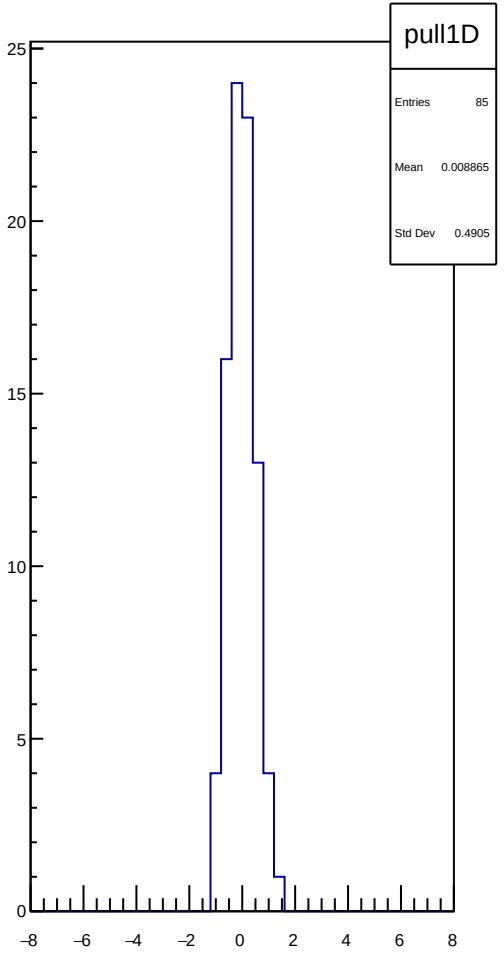

pull1D
Entries 85
Mean 0.02582
Std Dev 0.5708

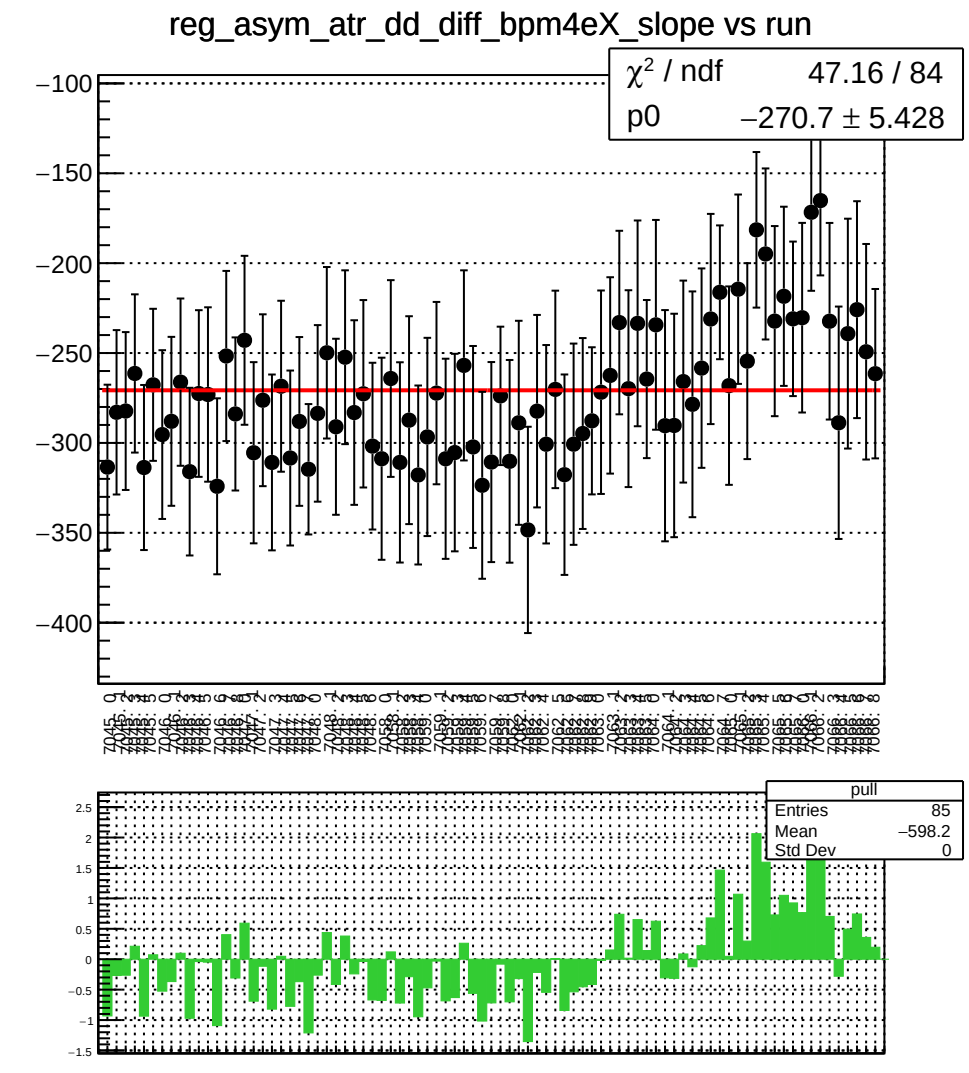

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 29.25 / 84
p0 −129.8 ± 0.2049
pull
Entries 85
Mean 386.5
Std Dev 0
pull1D
Entries 85
Mean −0.01153
Std Dev 0.5865

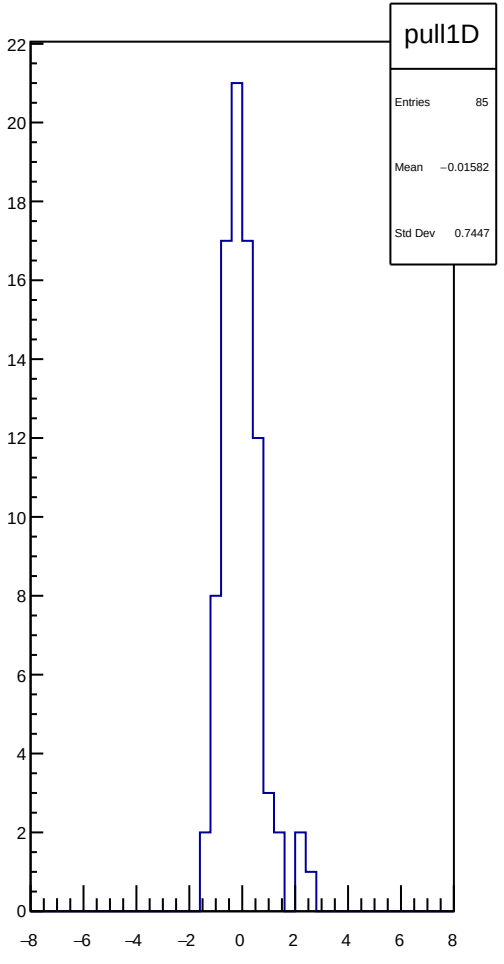

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 48.03 / 84
p0 199.8 ± 5.708
pull
Entries 85
Mean −592.9
Std Dev 0

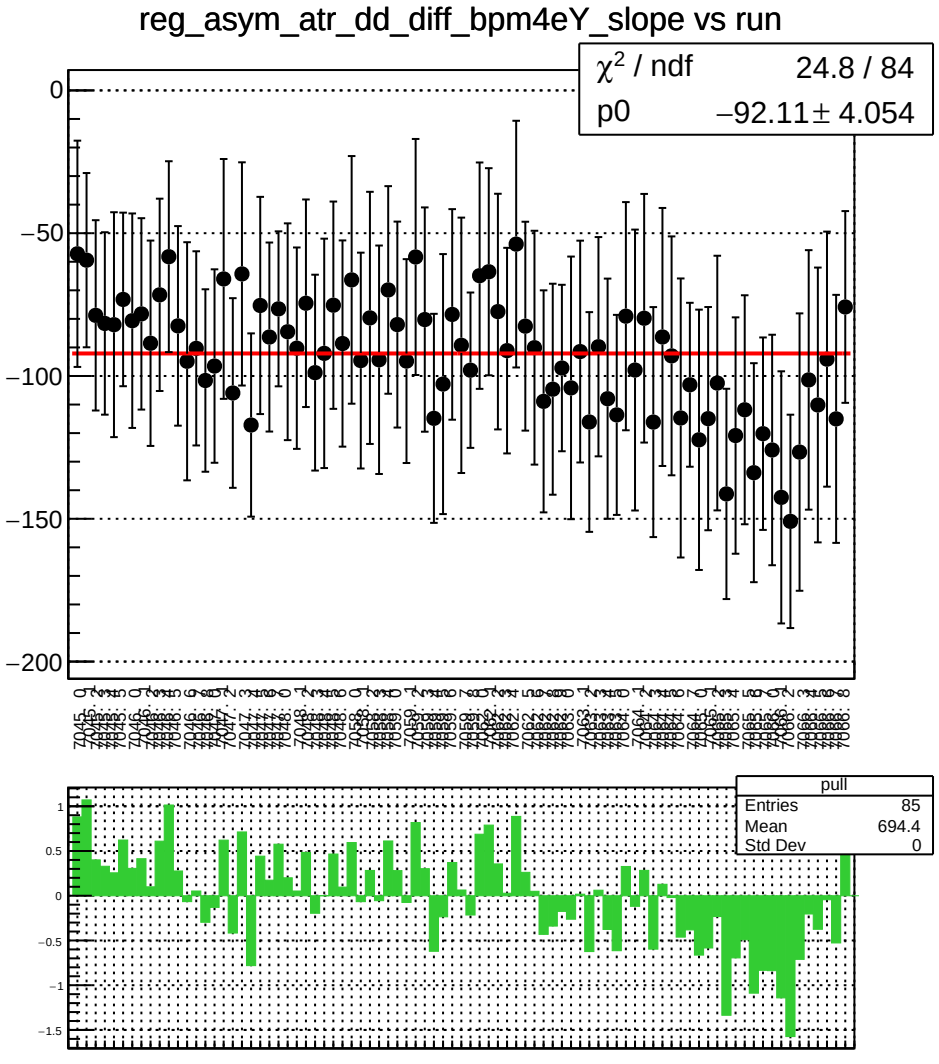

pull1D
Entries 85
Mean 0.01709
Std Dev 0.7515

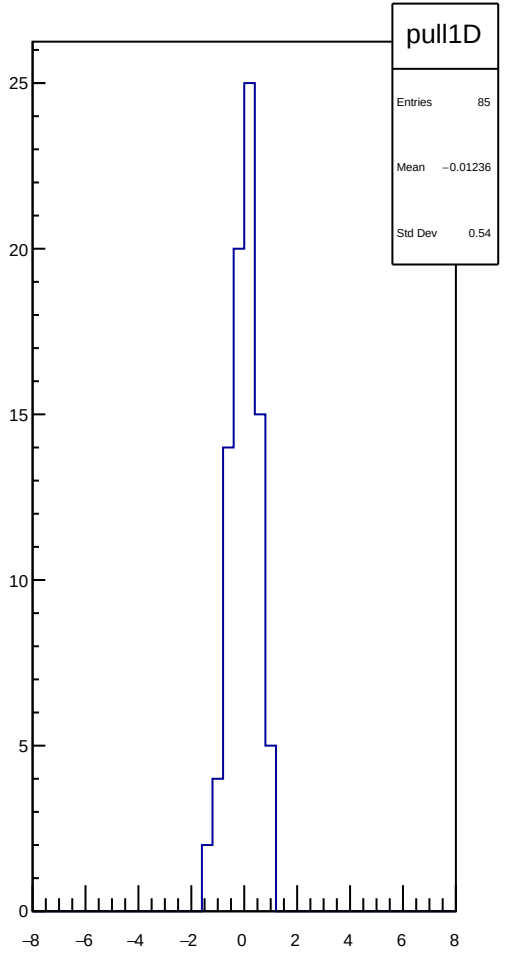

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.46 / 84
p0 18.44 ± 3.807
pull
Entries 85
Mean 800.9
Std Dev 0

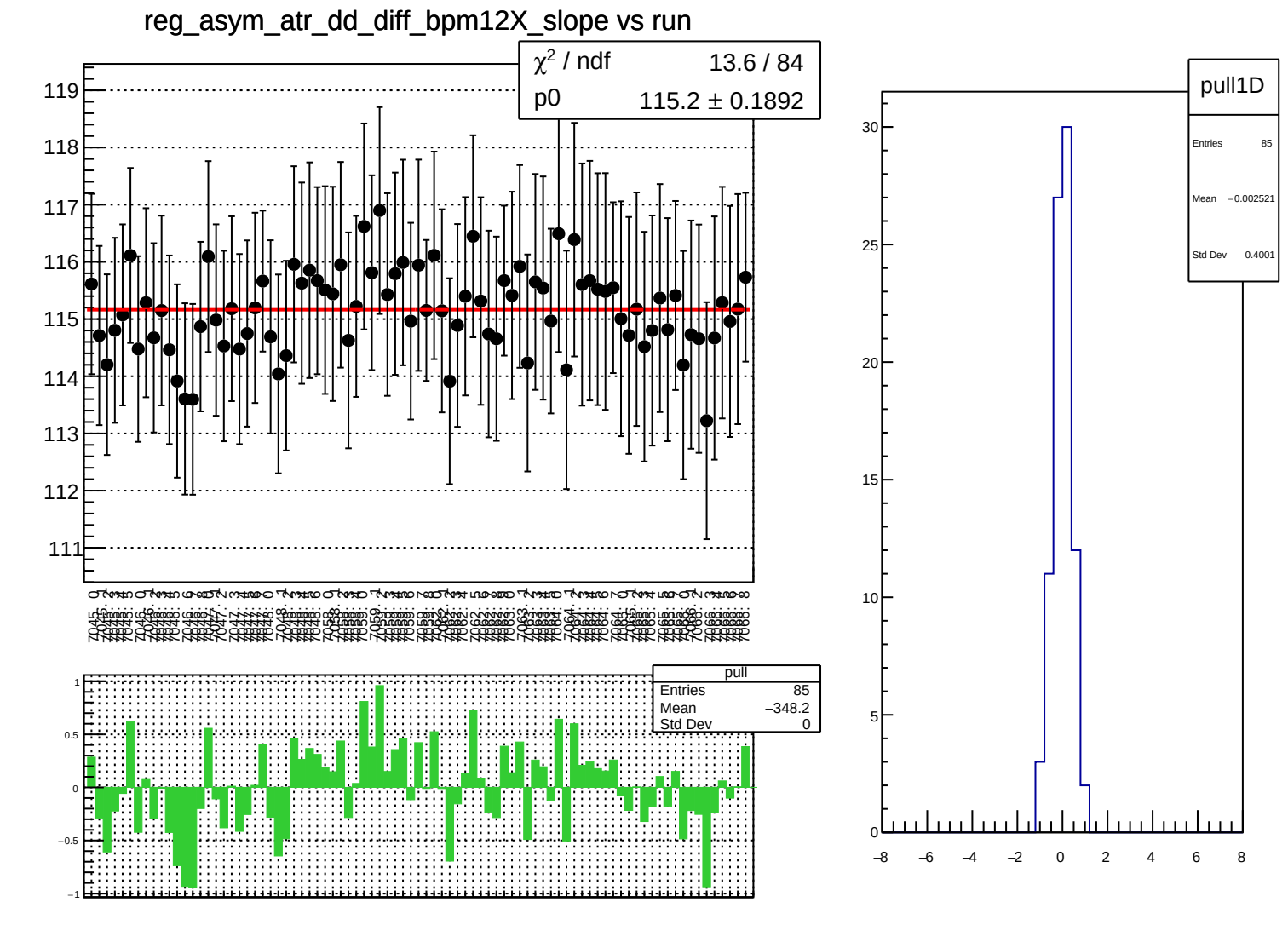

pull1D
Entries 85
Mean 0.008865
Std Dev 0.4905

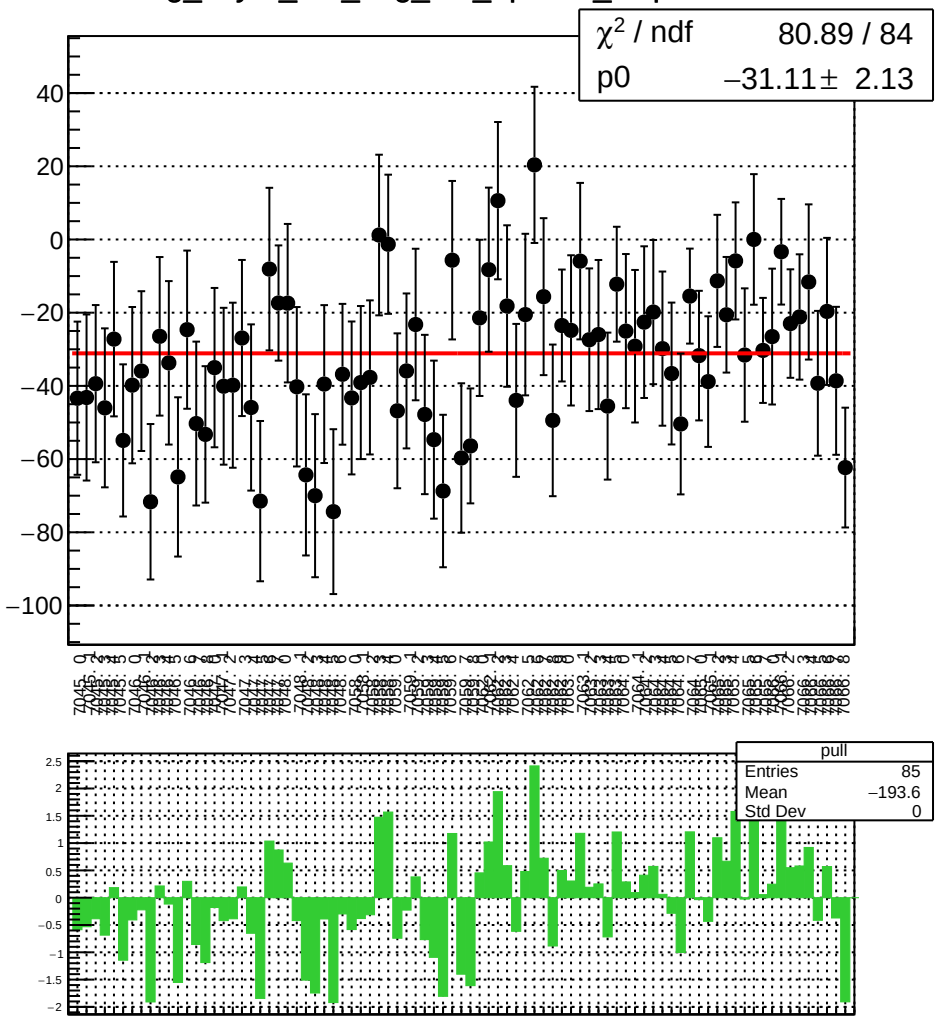

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.16 / 84
p0 −270.7 ± 5.428
pull
Entries 85
Mean −598.2
Std Dev 0

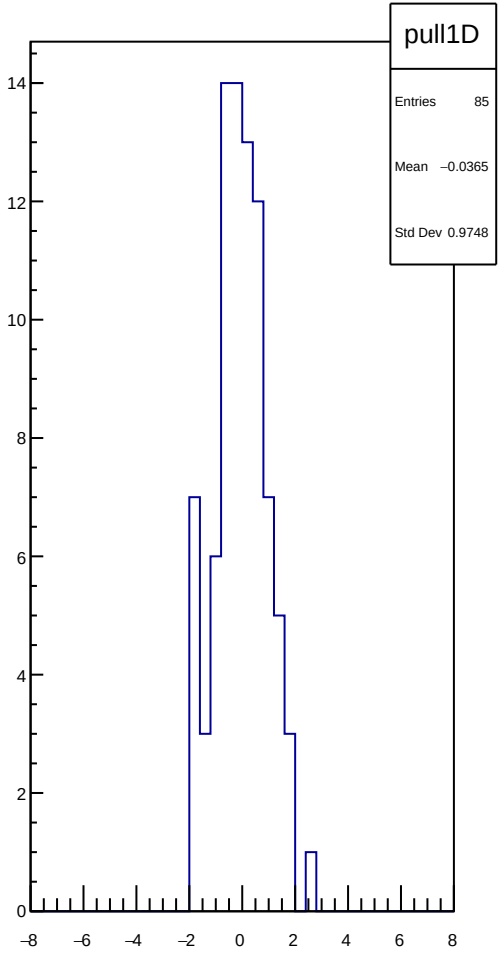

pull1D
Entries 85
Mean −0.01582
Std Dev 0.7447

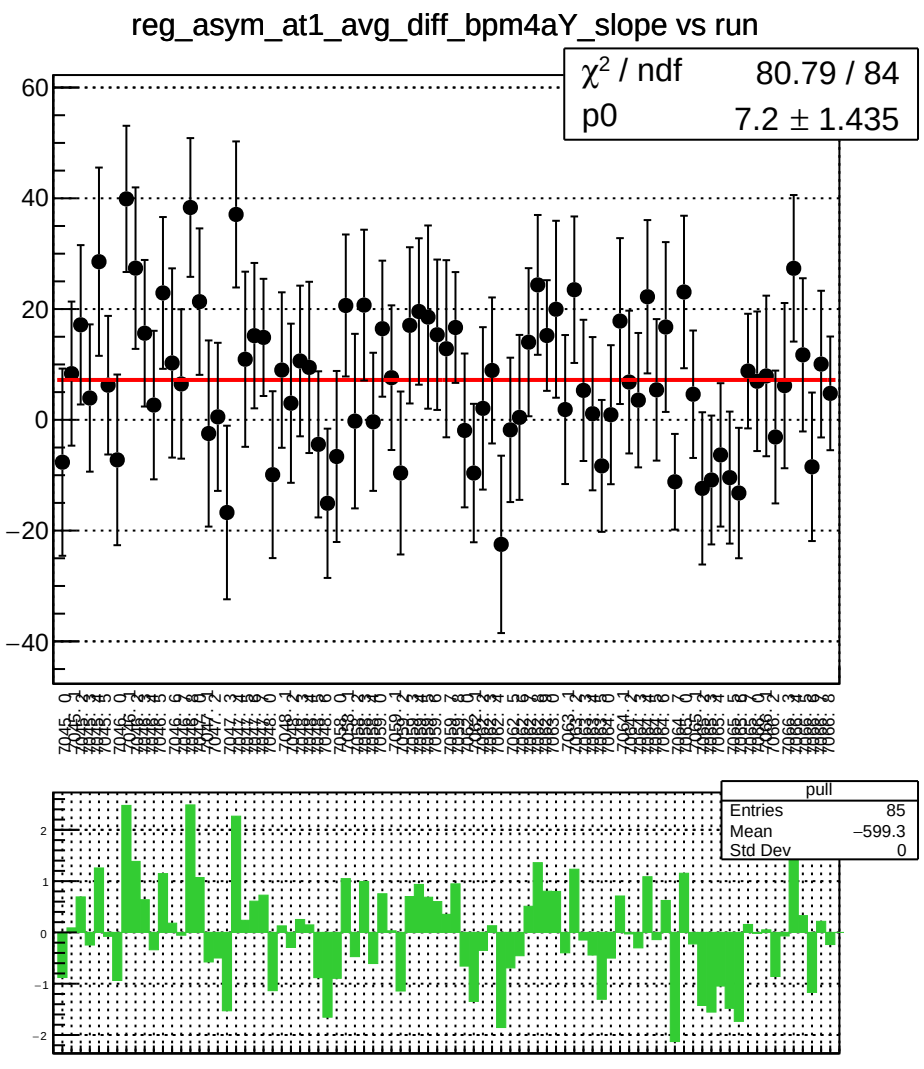

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.8 / 84
p0 −92.11 ± 4.054
0
−50
−100
−150
−200
pull
Entries 85
Mean 694.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

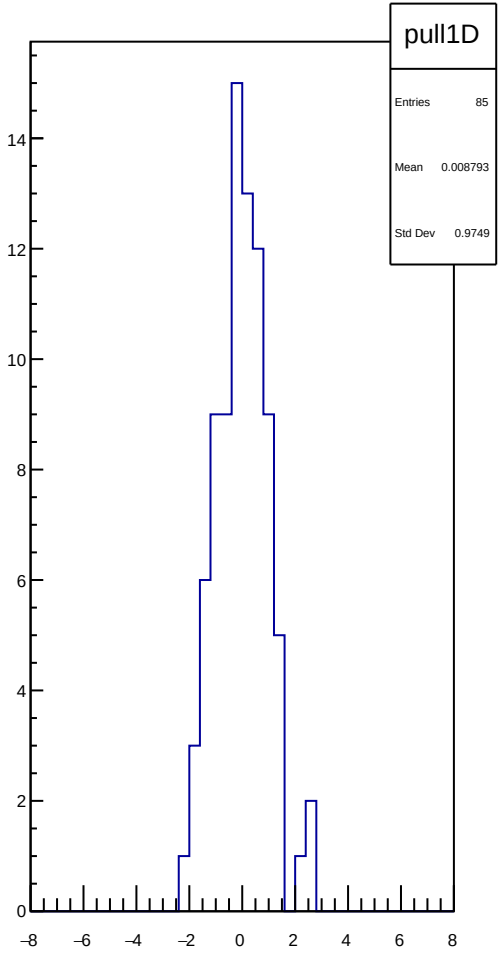

pull1D
Entries 85
Mean −0.01236
Std Dev 0.54
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

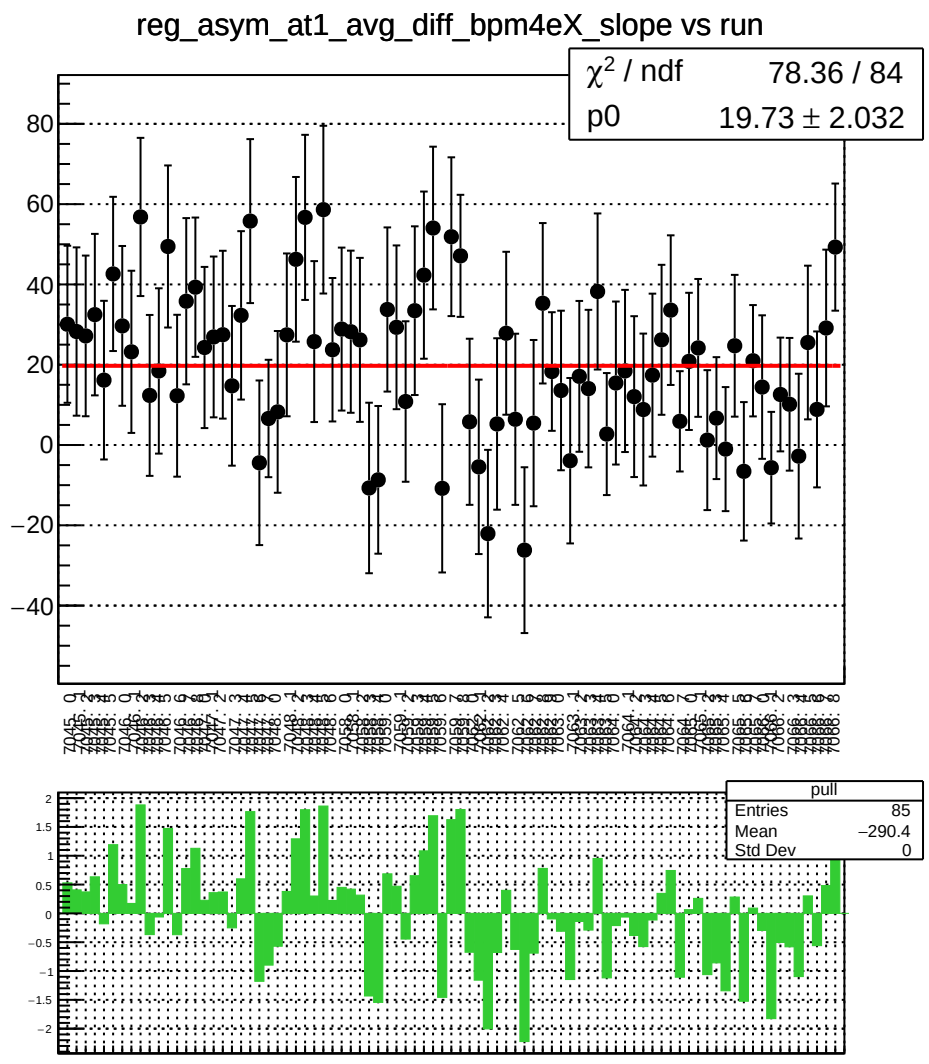

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 13.6 / 84
p0 115.2 ± 0.1892
pull
Entries 85
Mean −348.2
Std Dev 0
pull1D
Entries 85
Mean −0.002521
Std Dev 0.4001

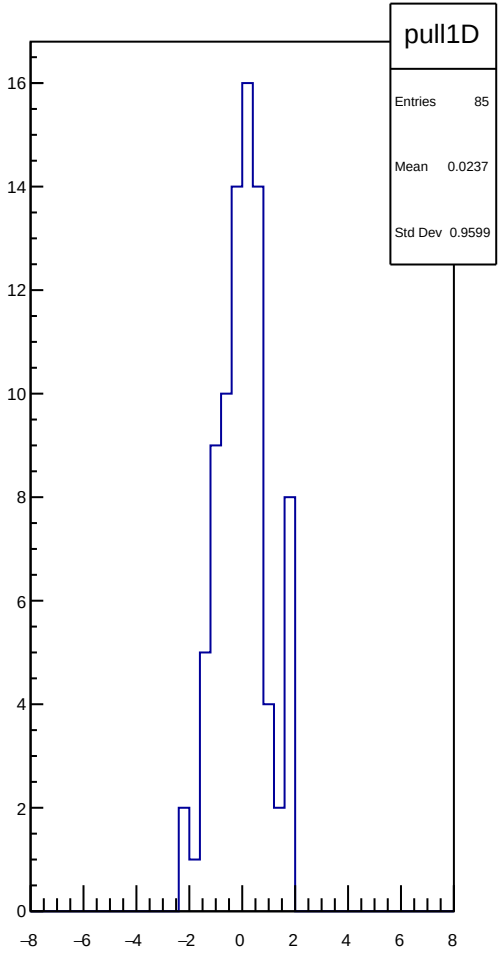

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 80.89 / 84
p0 −31.11 ± 2.13
pull
Entries 85
Mean −193.6
Std Dev 0

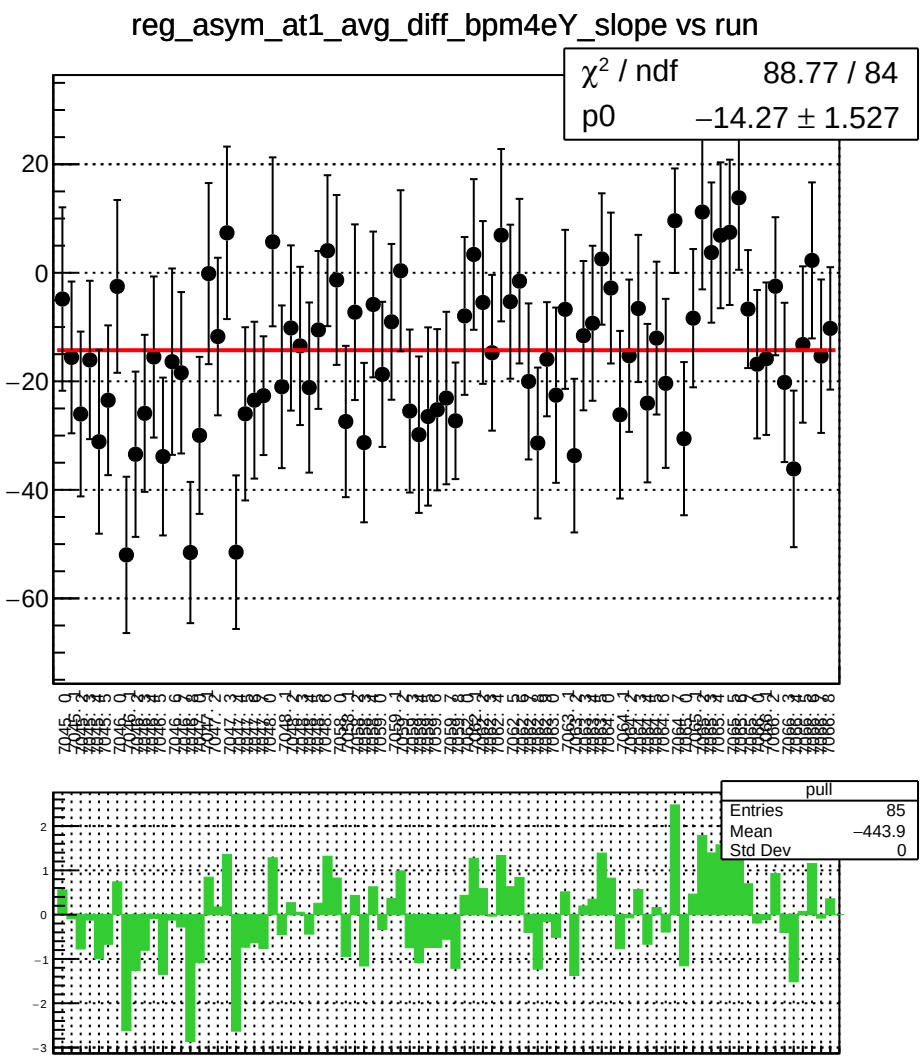

pull1D
Entries 85
Mean −0.0365
Std Dev 0.9748

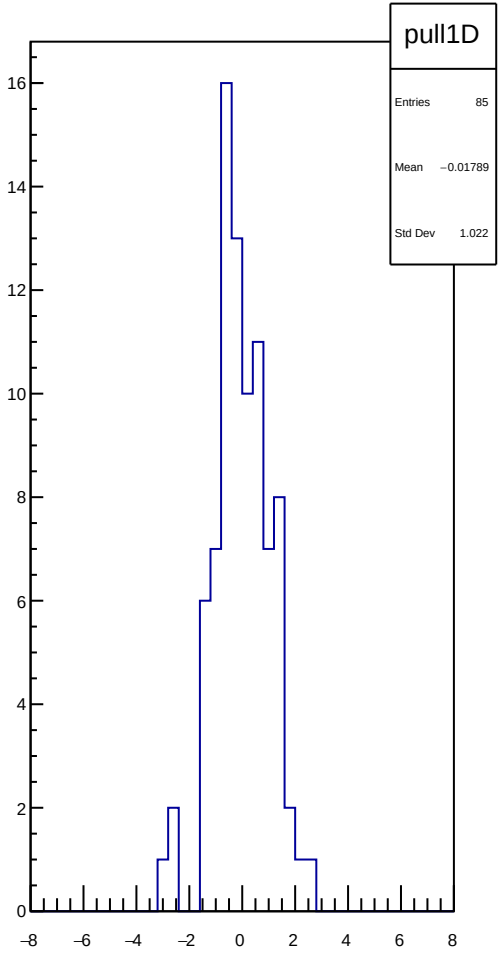

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.79 / 84
p0 7.2 ± 1.435
pull
Entries 85
Mean −599.3
Std Dev 0

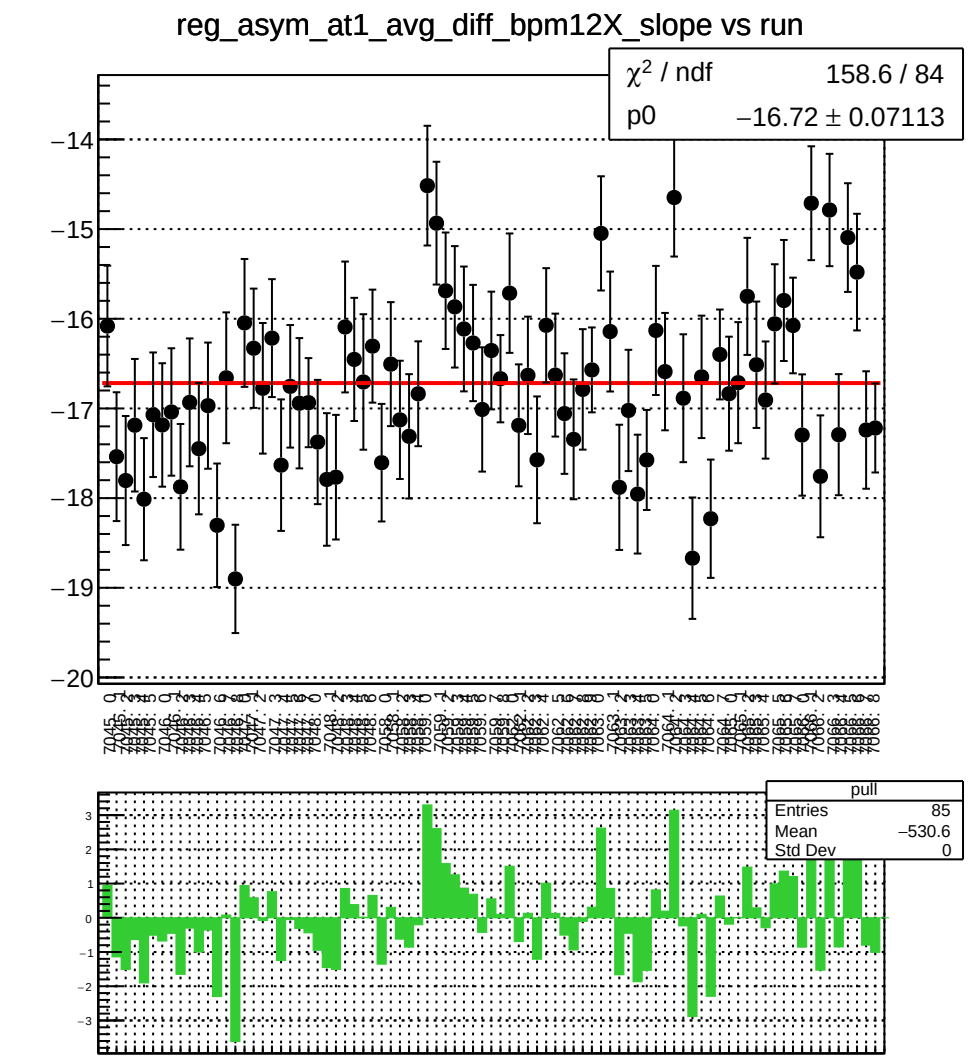

pull1D
Entries 85
Mean 0.008793
Std Dev 0.9749

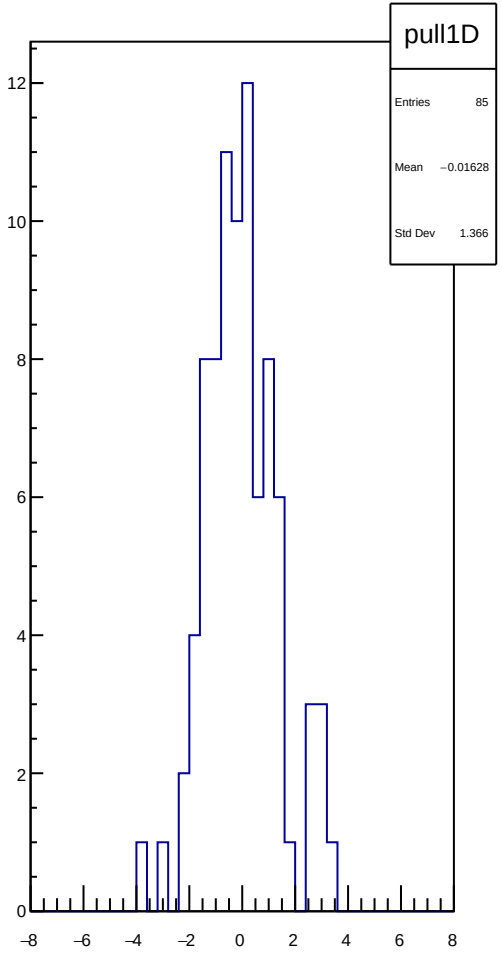

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.36 / 84
p0 19.73 ± 2.032
pull
Entries 85
Mean −290.4
Std Dev 0

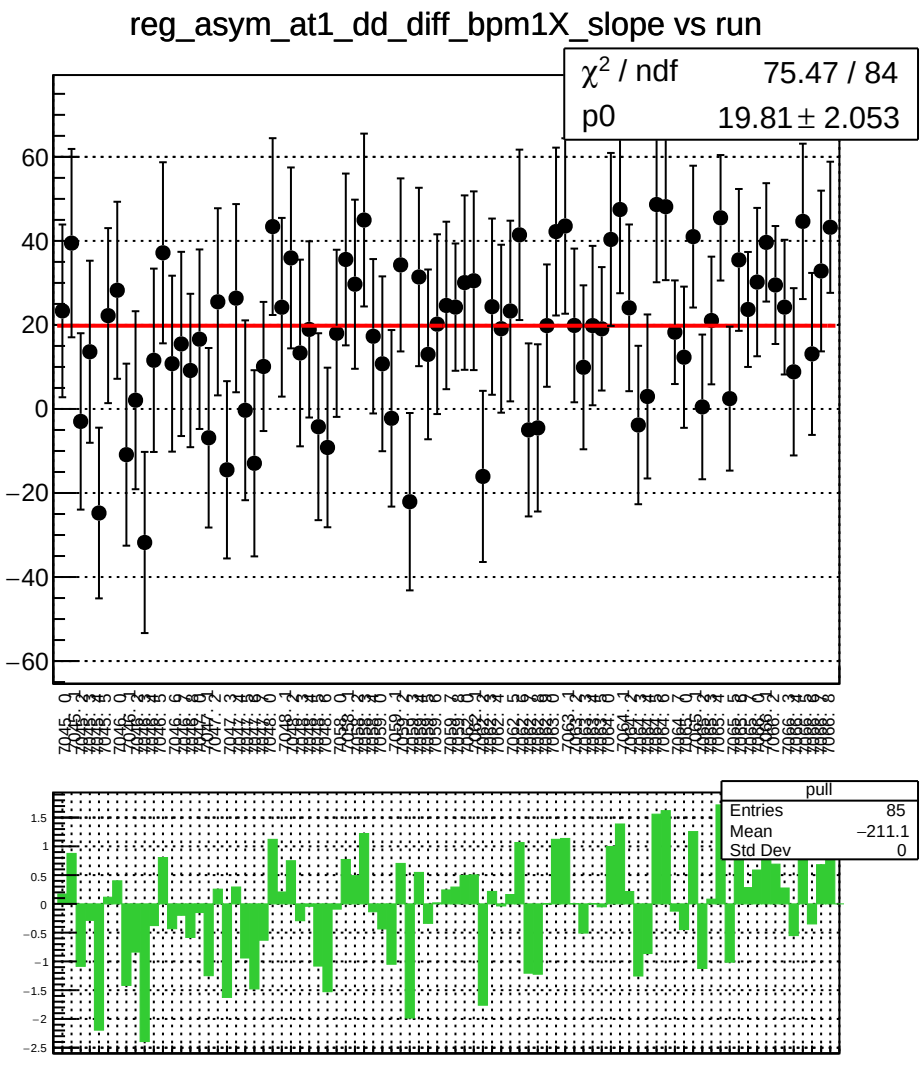

pull1D
Entries 85
Mean 0.0237
Std Dev 0.9599

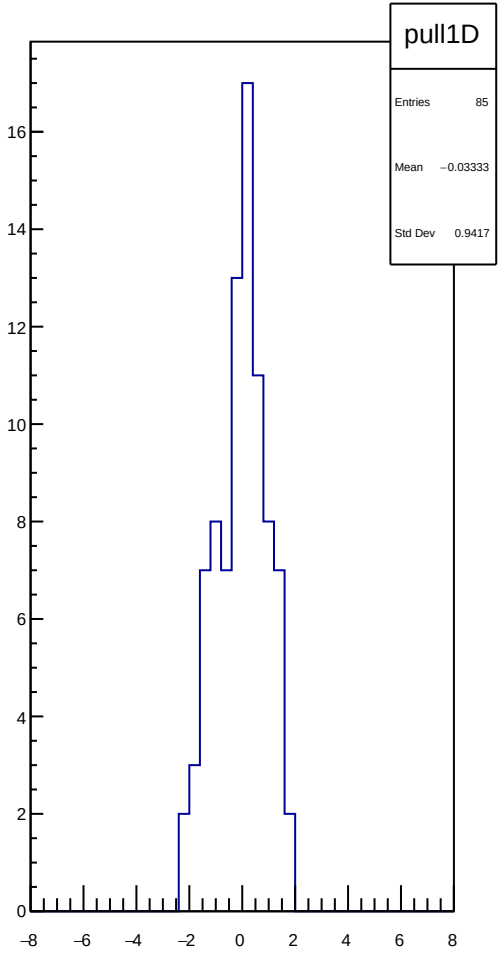

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.77 / 84
p0 −14.27 ± 1.527
pull
Entries 85
Mean −443.9
Std Dev 0

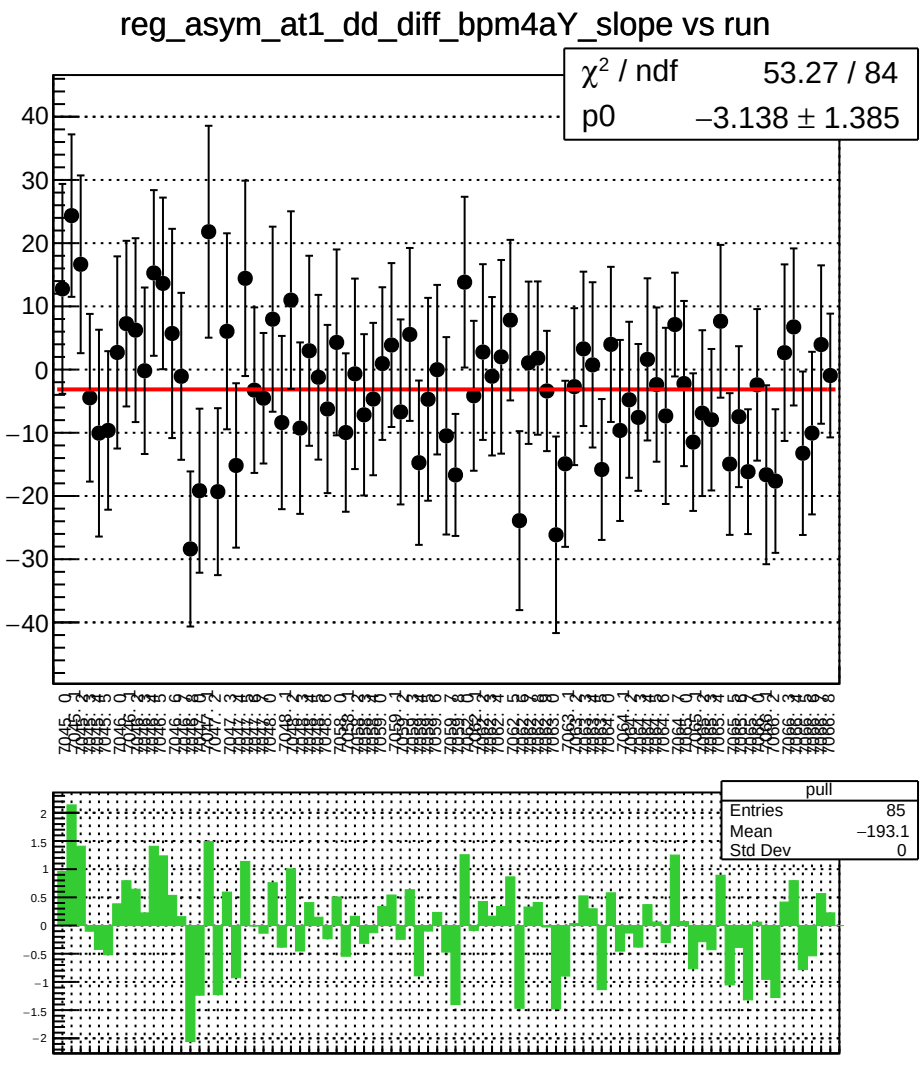

pull1D
Entries 85
Mean −0.01789
Std Dev 1.022

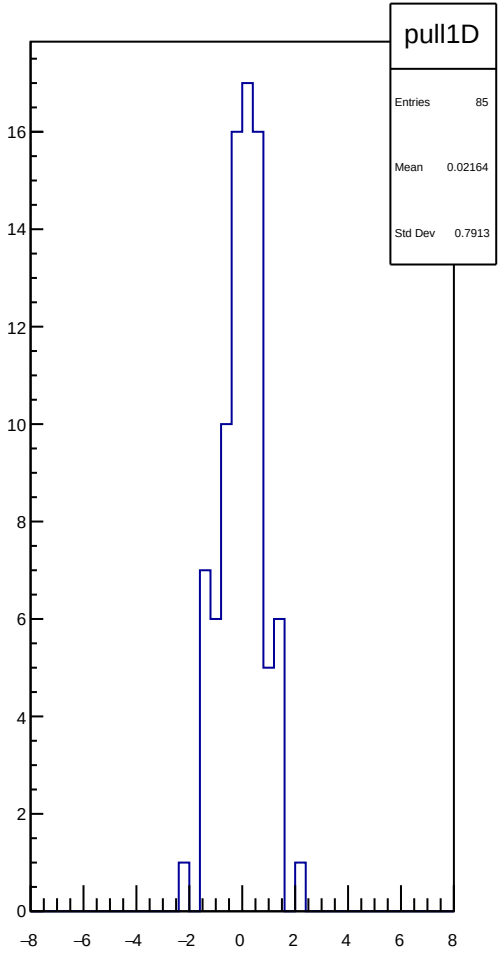

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 158.6 / 84
p0 −16.72 ± 0.07113
pull
Entries 85
Mean −530.6
Std Dev 0

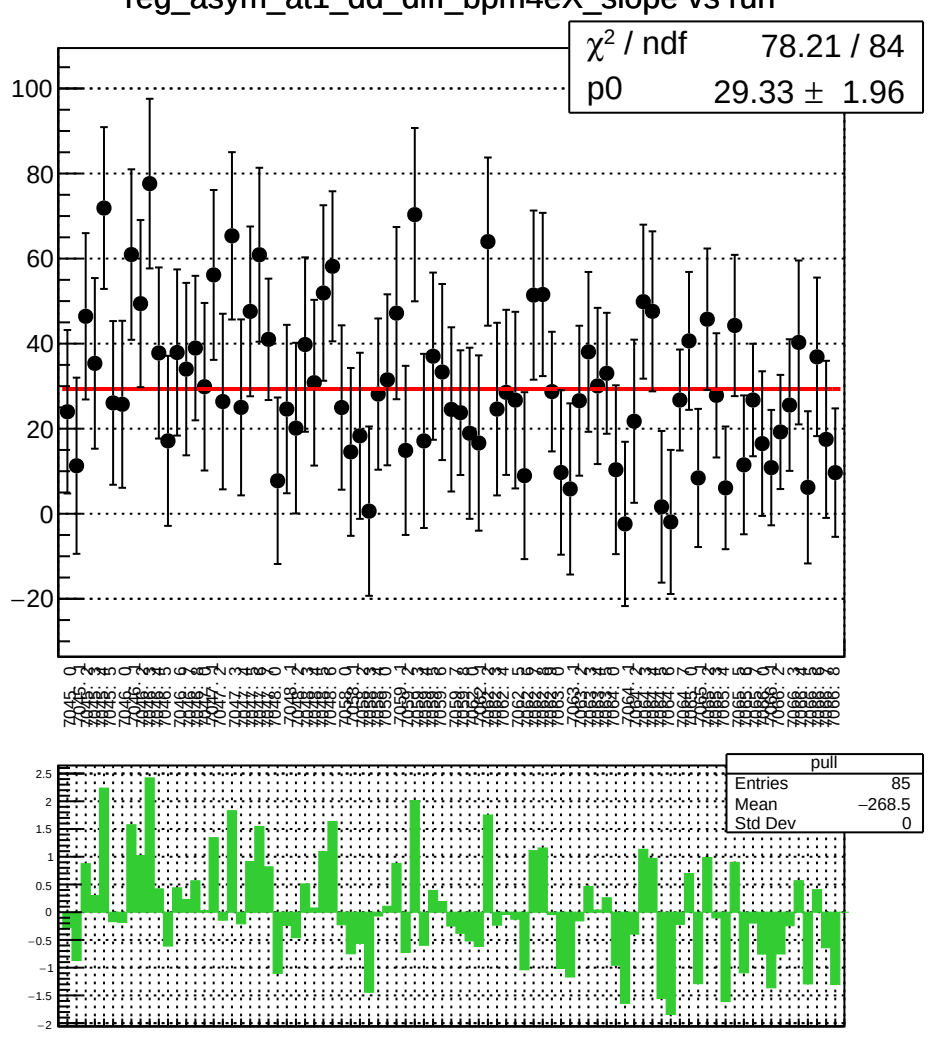

pull1D
Entries 85
Mean −0.01628
Std Dev 1.366

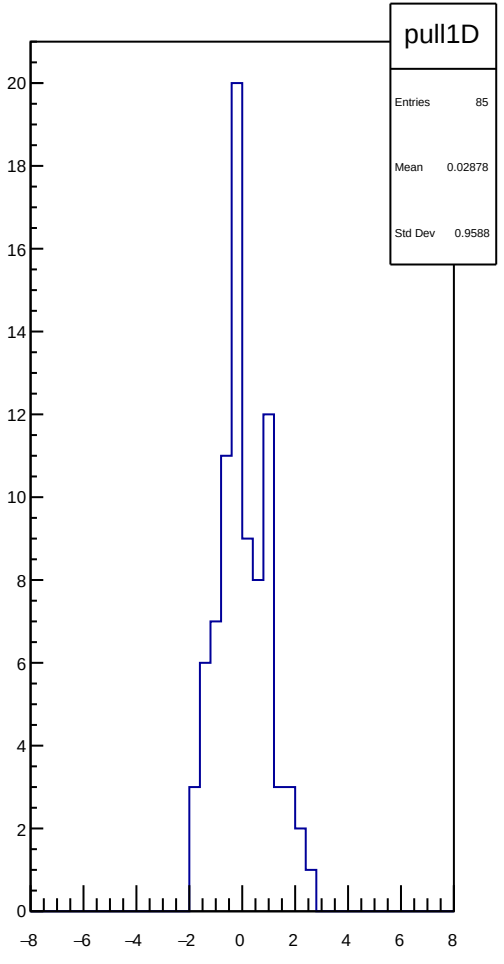

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 75.47 / 84
p0 19.81 ± 2.053
pull
Entries 85
Mean −211.1
Std Dev 0

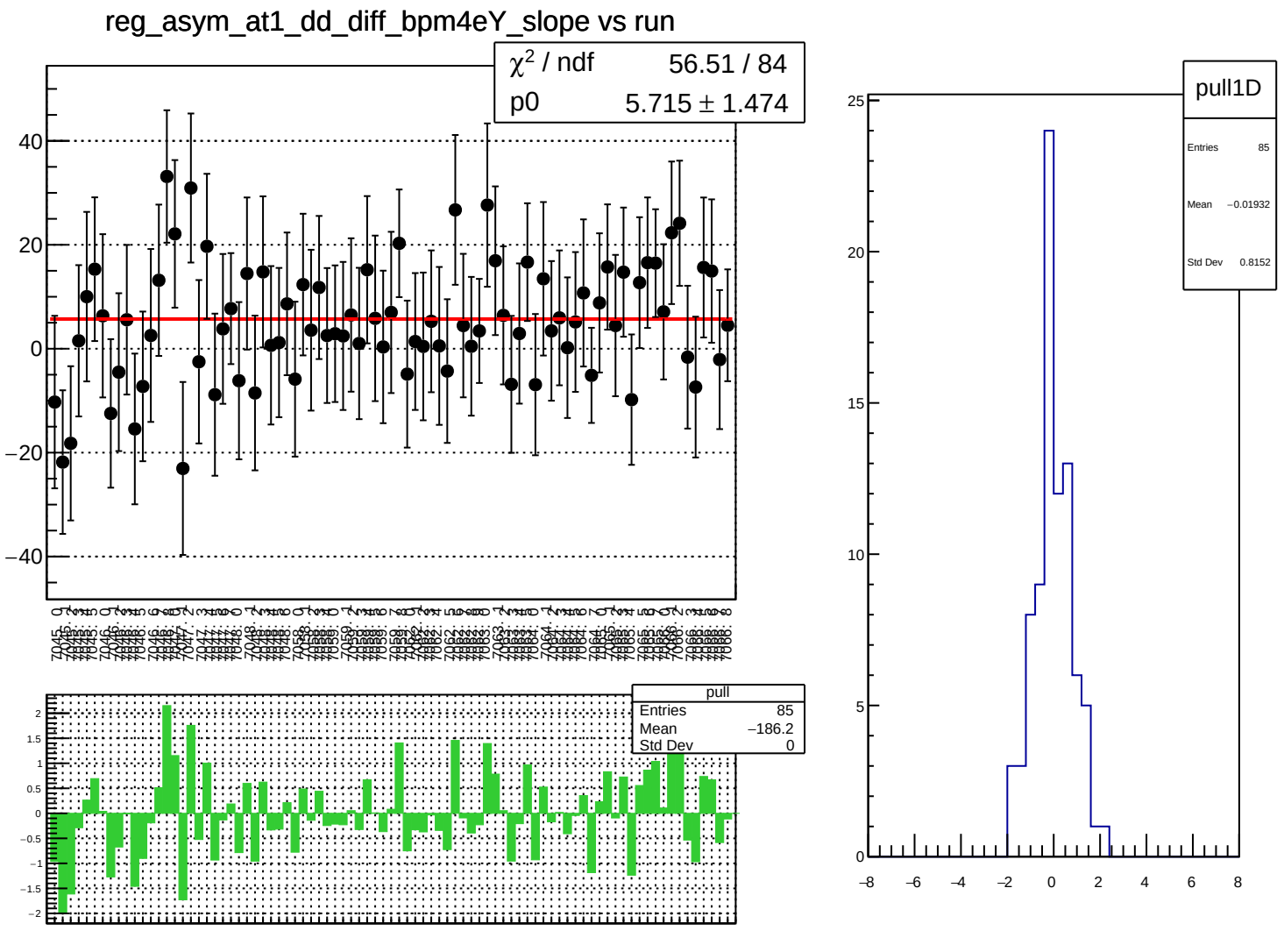

pull1D
Entries 85
Mean −0.03333
Std Dev 0.9417

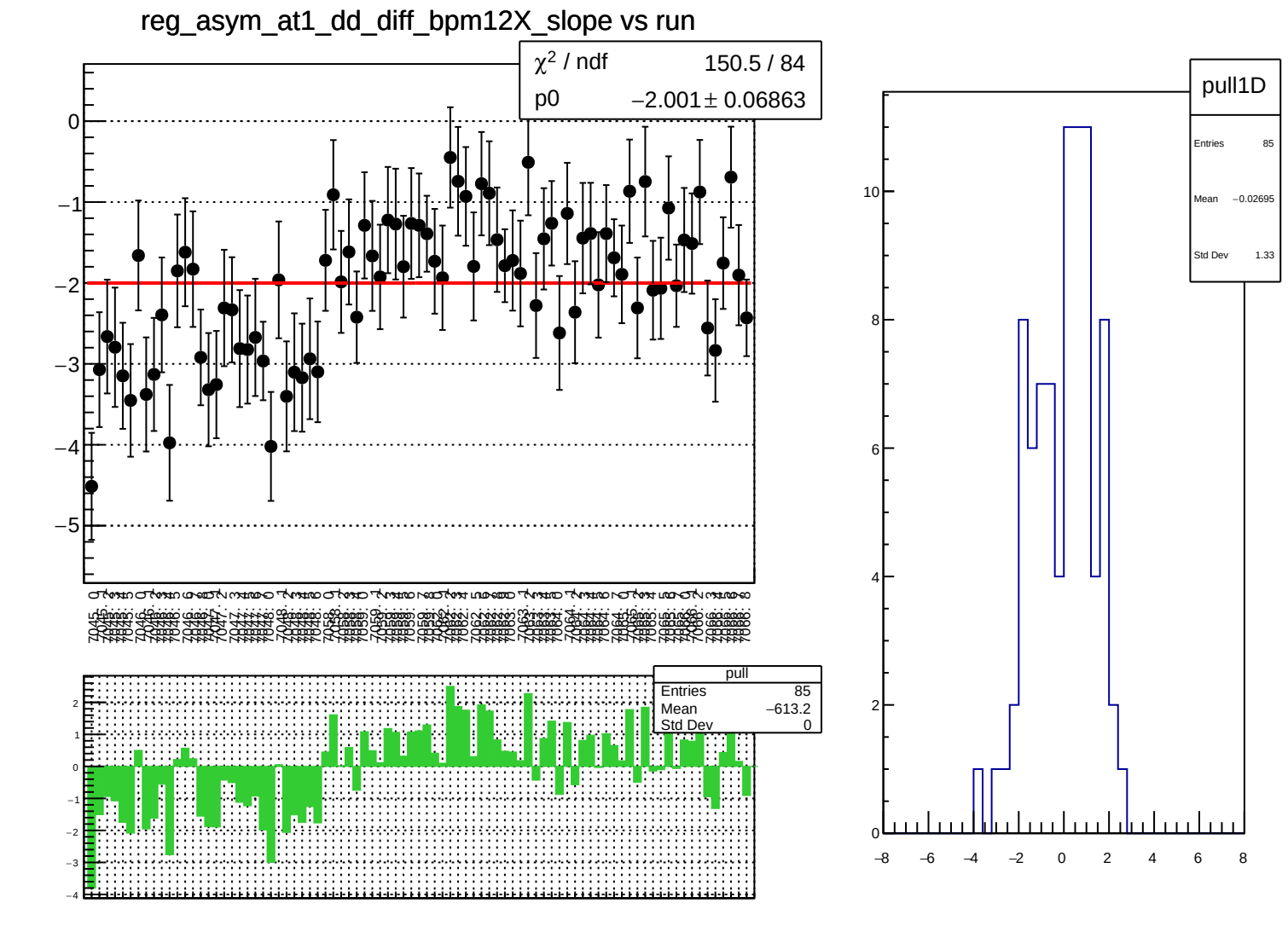

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.27 / 84
p0 −3.138 ± 1.385
pull
Entries 85
Mean −193.1
Std Dev 0

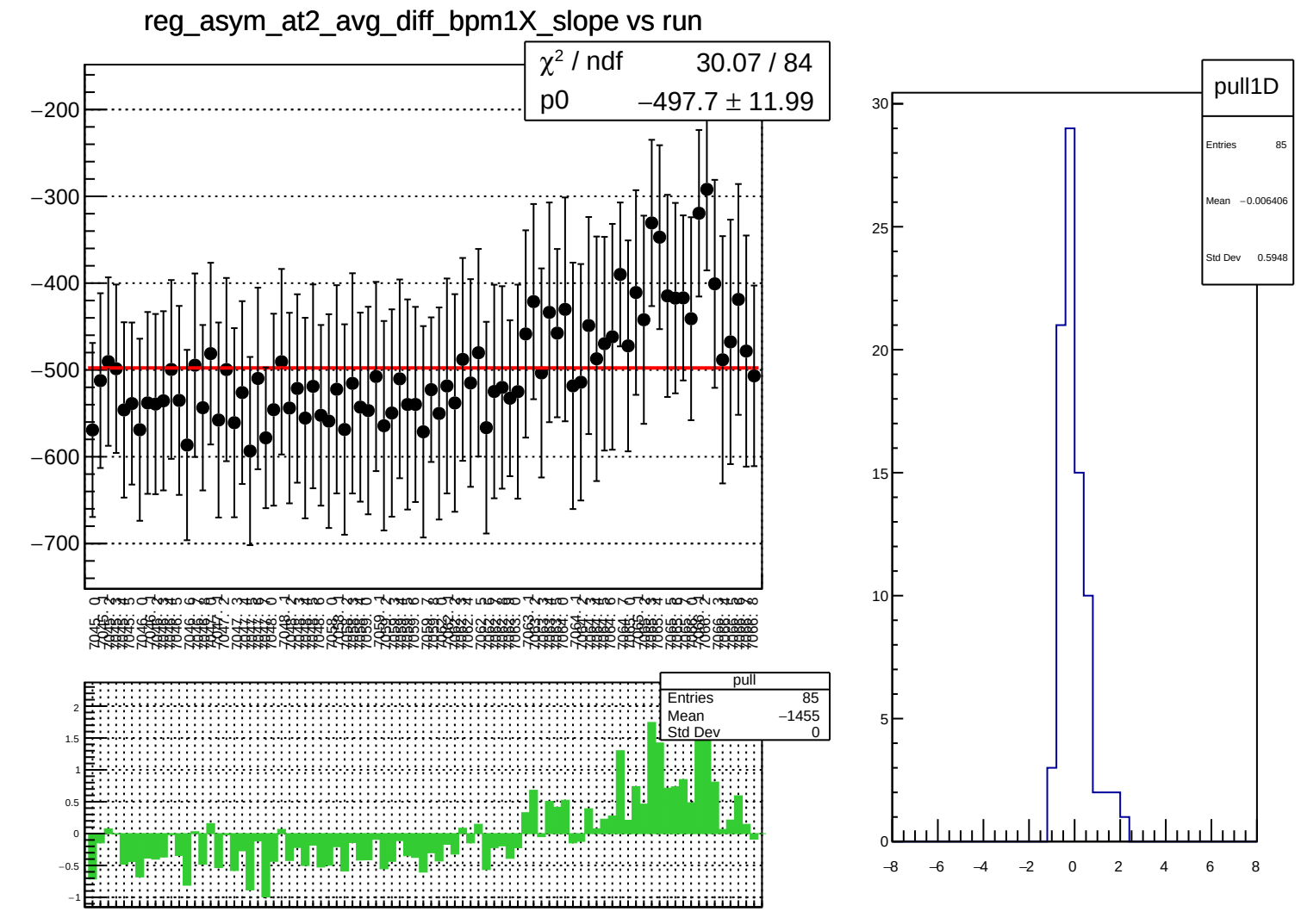

pull1D
Entries 85
Mean 0.02164
Std Dev 0.7913

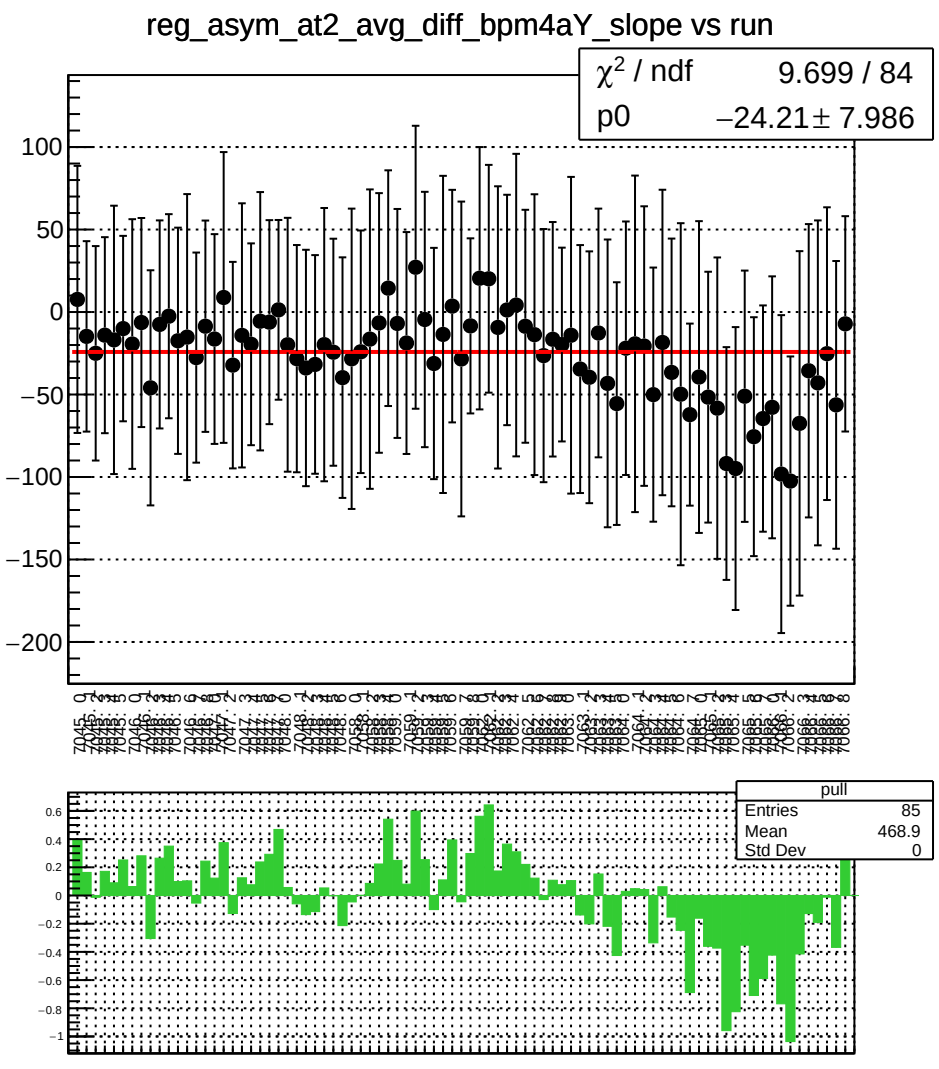

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.21 / 84
p0 29.33 ± 1.96
pull
Entries 85
Mean −268.5
Std Dev 0

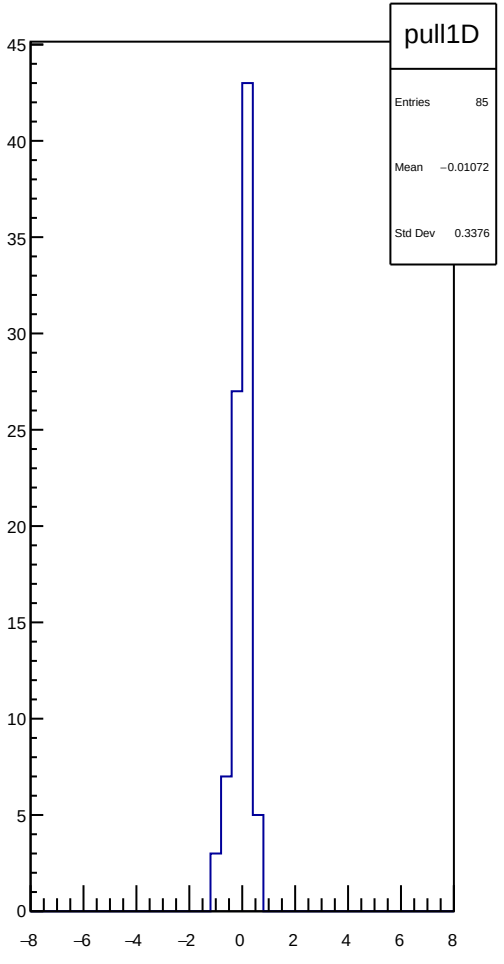

pull1D
Entries 85
Mean 0.02878
Std Dev 0.9588

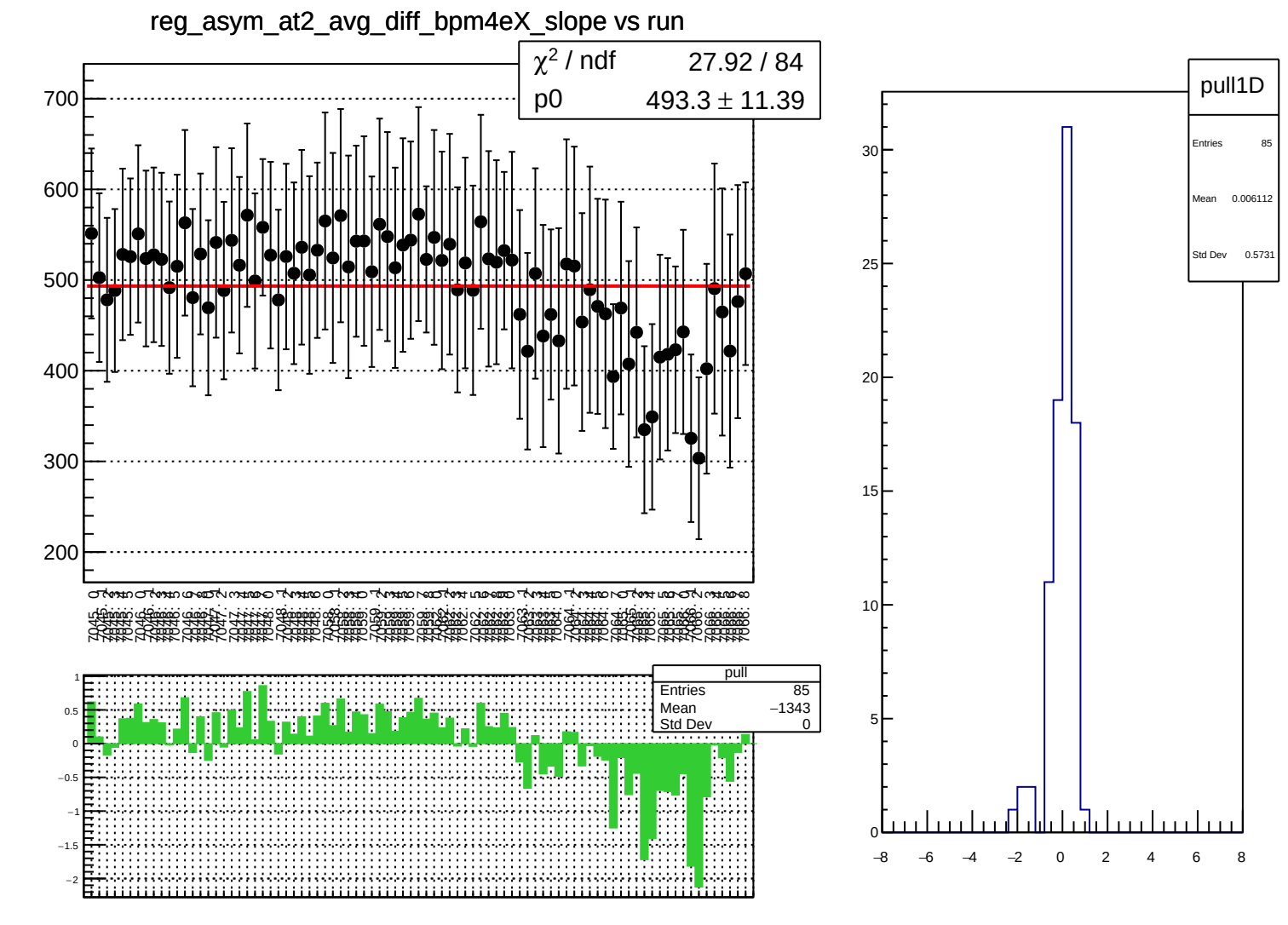

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.51 / 84
p0 5.715 ± 1.474
pull
Entries 85
Mean −186.2
Std Dev 0
pull1D
Entries 85
Mean −0.01932
Std Dev 0.8152

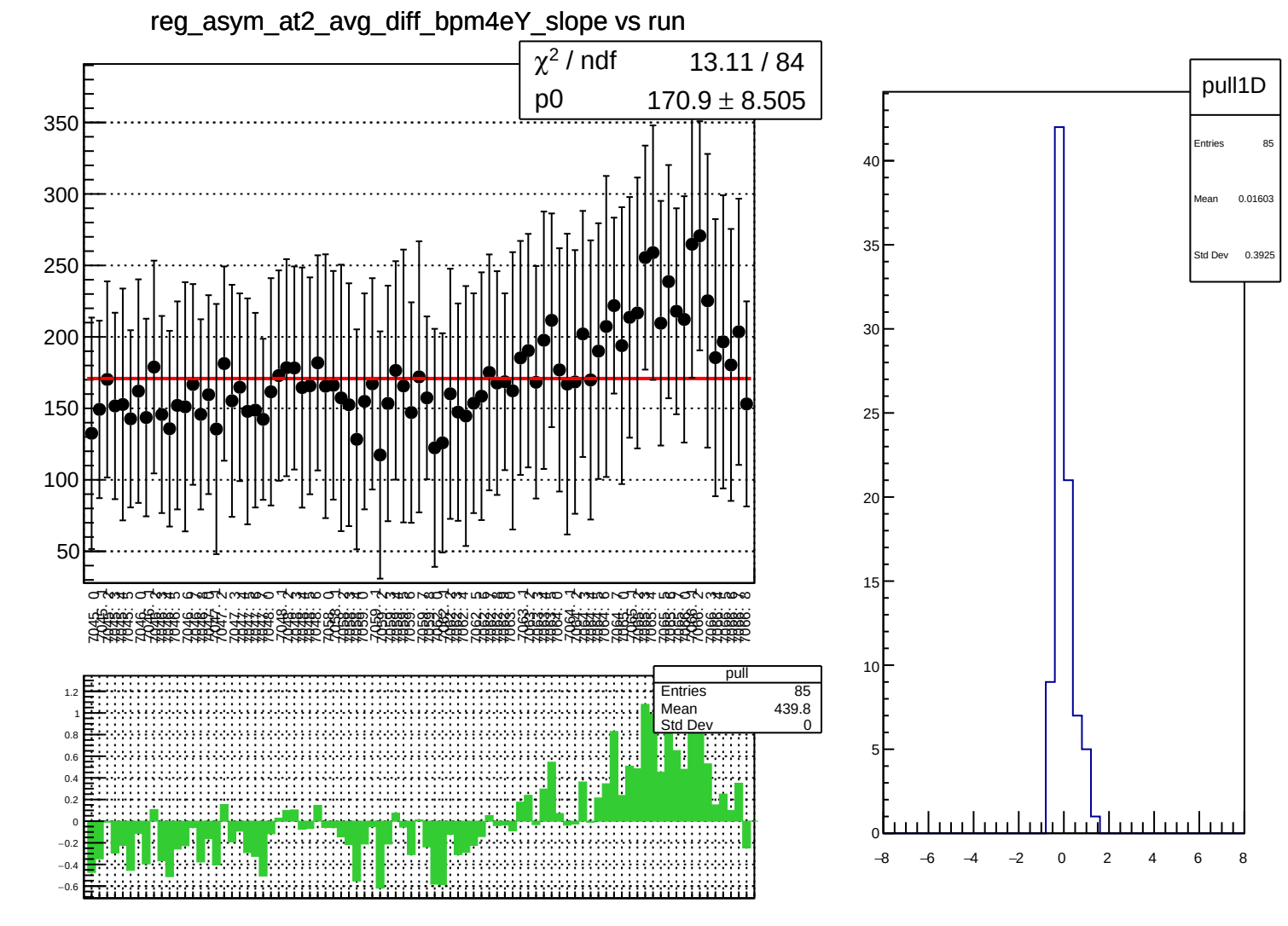

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 150.5 / 84
p0 −2.001 ± 0.06863
pull
Entries 85
Mean −613.2
Std Dev 0
pull1D
Entries 85
Mean −0.02695
Std Dev 1.33

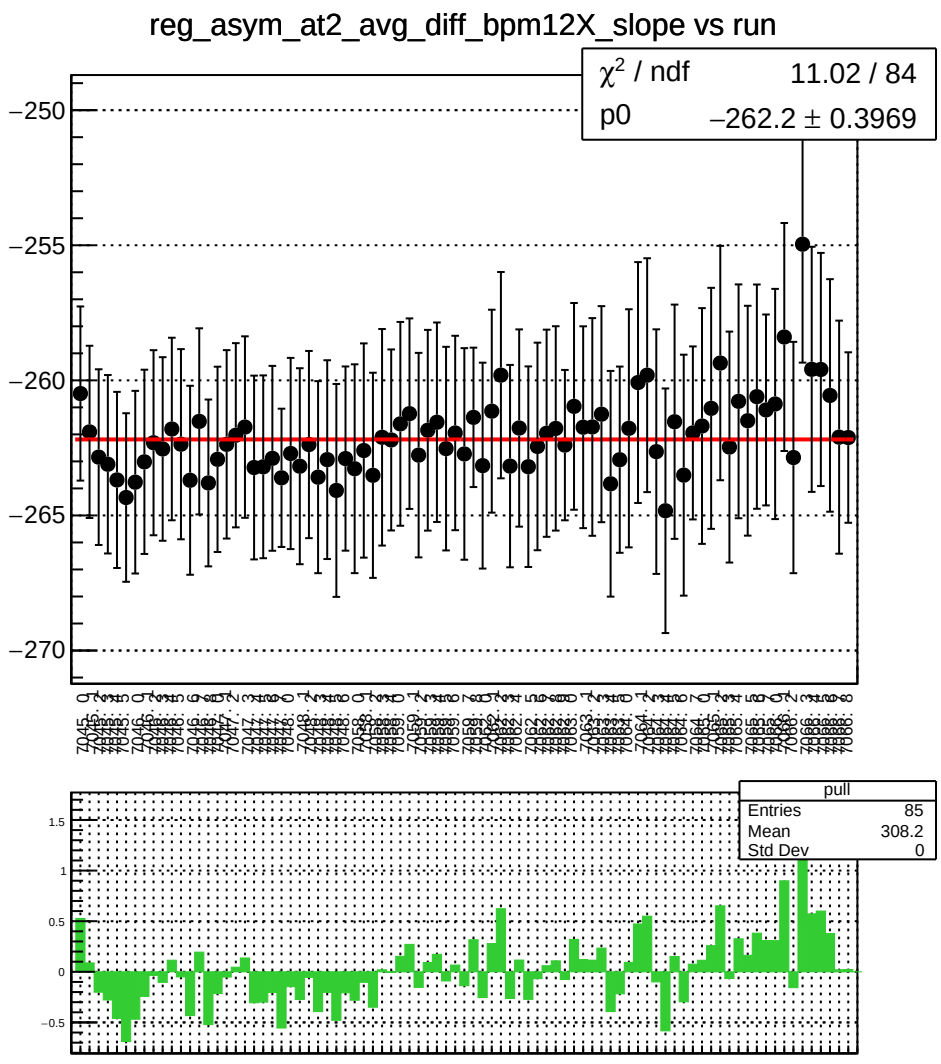

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 30.07 / 84
p0 −497.7 ± 11.99
−200
−300
−400
−500
−600
−700
pull
Entries 85
Mean −1455
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.006406
Std Dev 0.5948
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

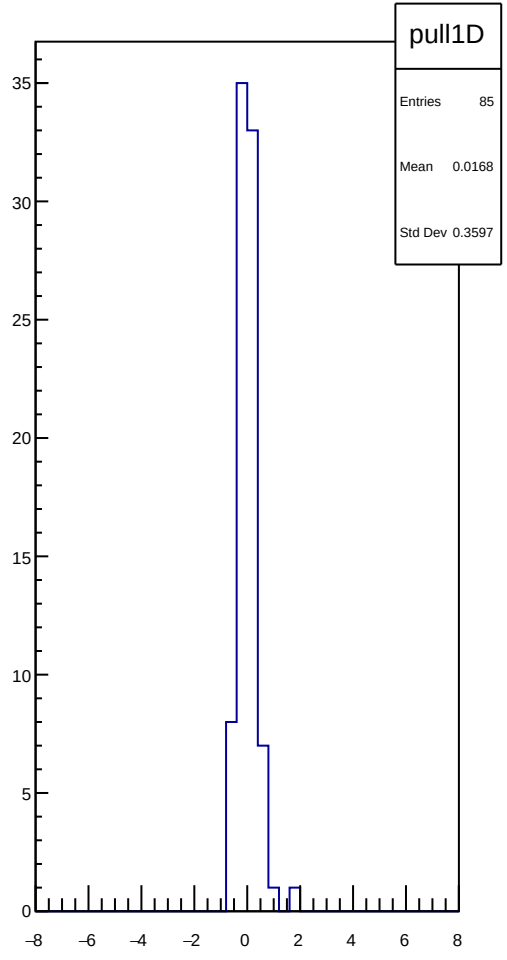

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.699 / 84
p0 −24.21 ± 7.986
pull
Entries 85
Mean 468.9
Std Dev 0

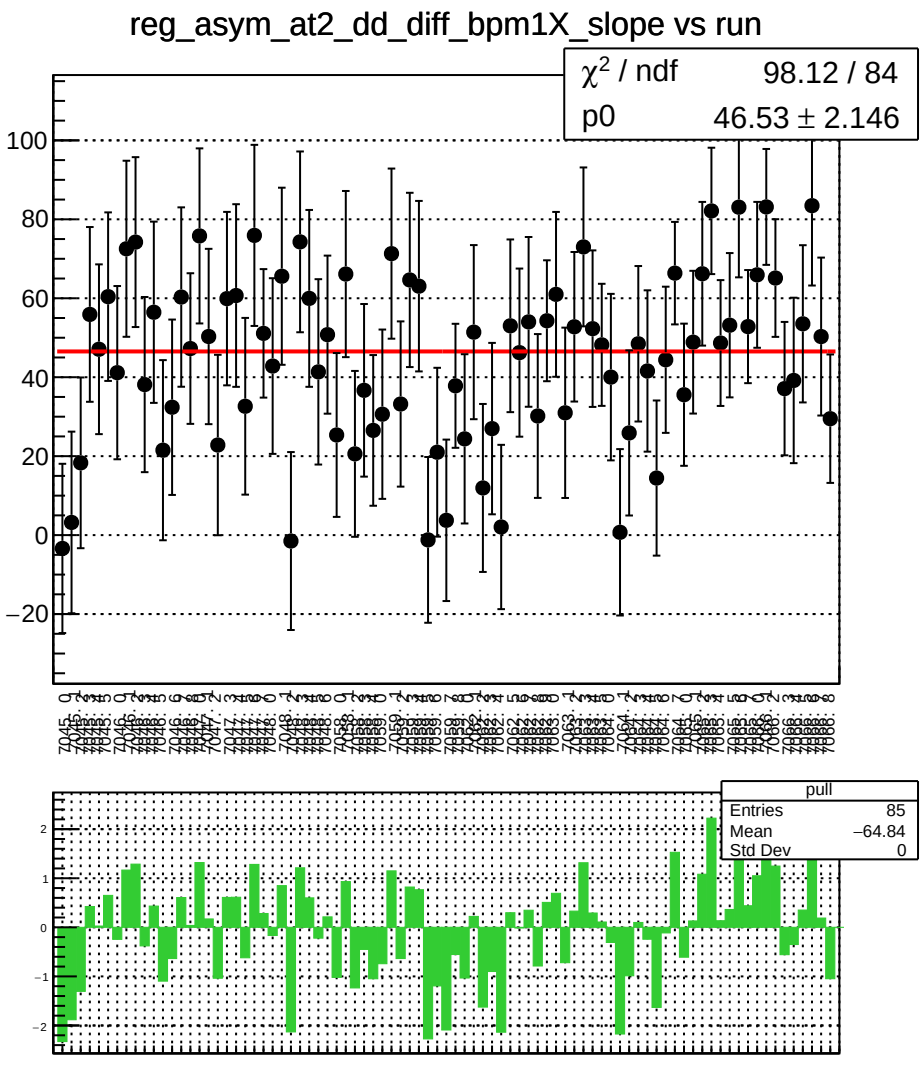

pull1D
Entries 85
Mean −0.01072
Std Dev 0.3376

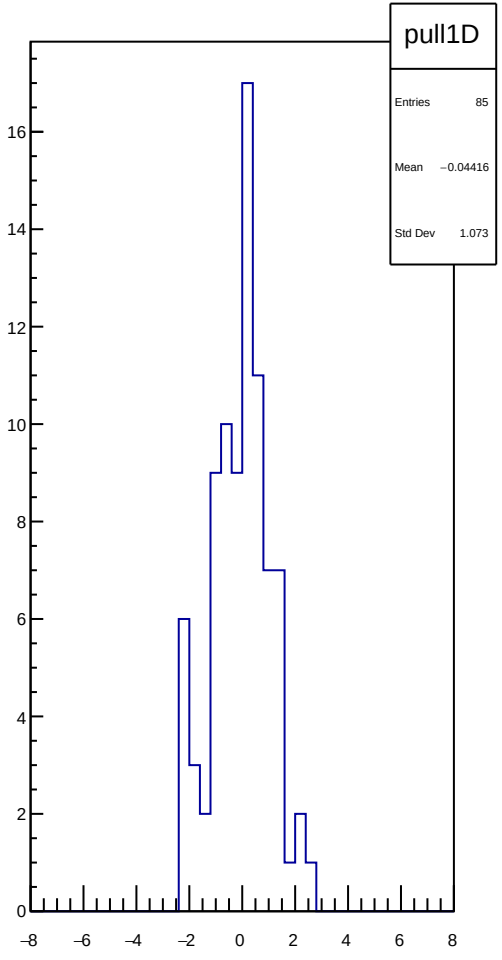

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.92 / 84
p0 493.3 ± 11.39
700
600
500
400
300
200
pull
Entries 85
Mean −1343
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.006112
Std Dev 0.5731
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

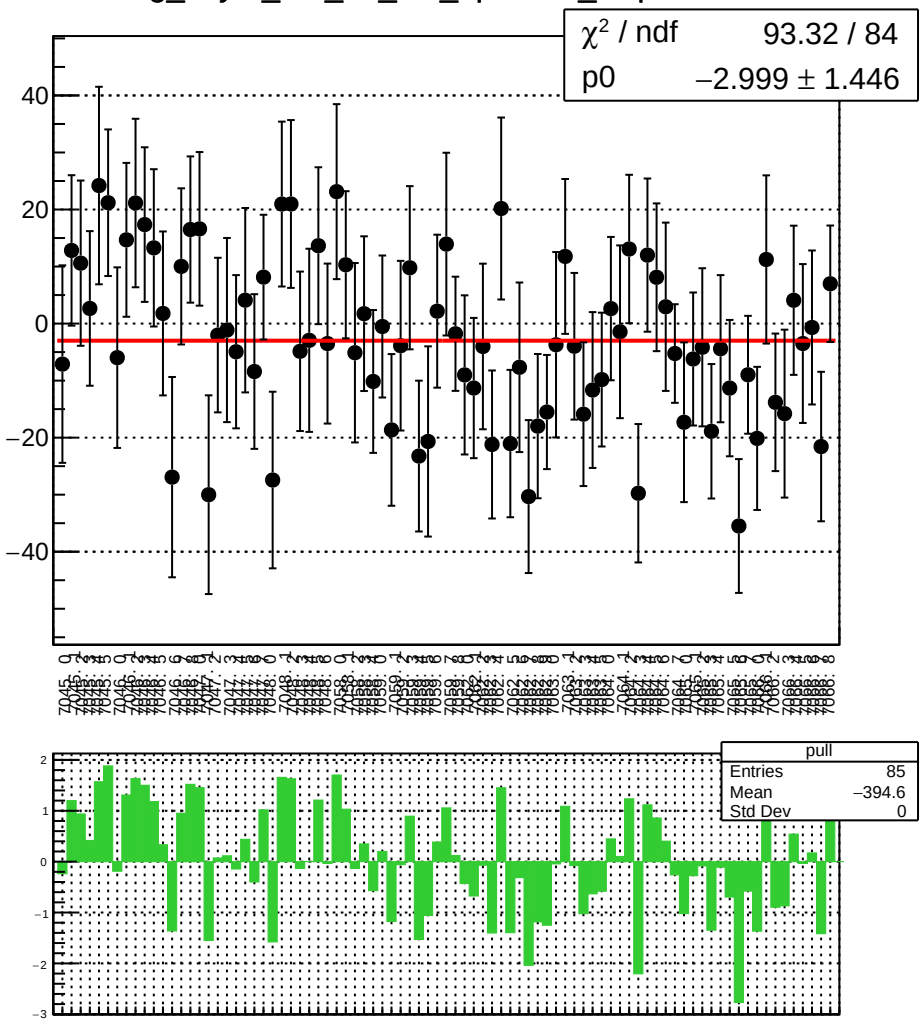

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.11 / 84
p0 170.9 ± 8.505
pull
Entries 85
Mean 439.8
Std Dev 0
pull1D
Entries 85
Mean 0.01603
Std Dev 0.3925

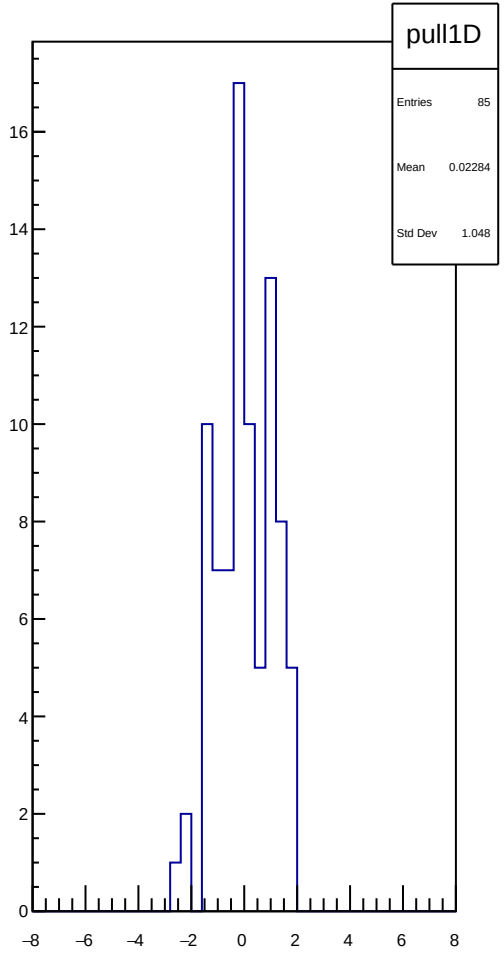

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.02 / 84
p0 −262.2 ± 0.3969
−250
−255
−260
−265
−270
pull
Entries 85
Mean 308.2
Std Dev 0
1.5
1
0.5
0
−0.5

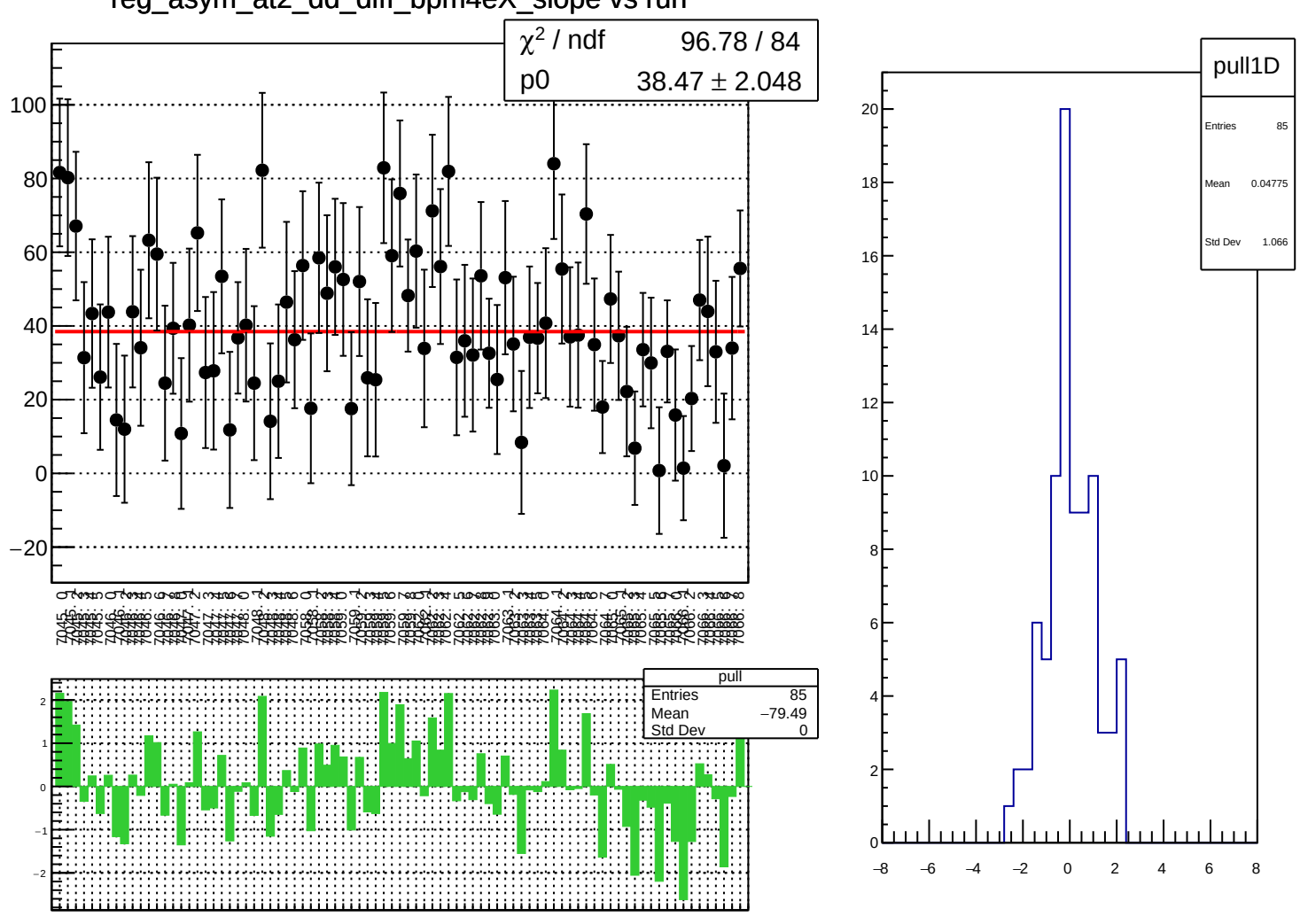

pull1D
Entries 85
Mean 0.0168
Std Dev 0.3597
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

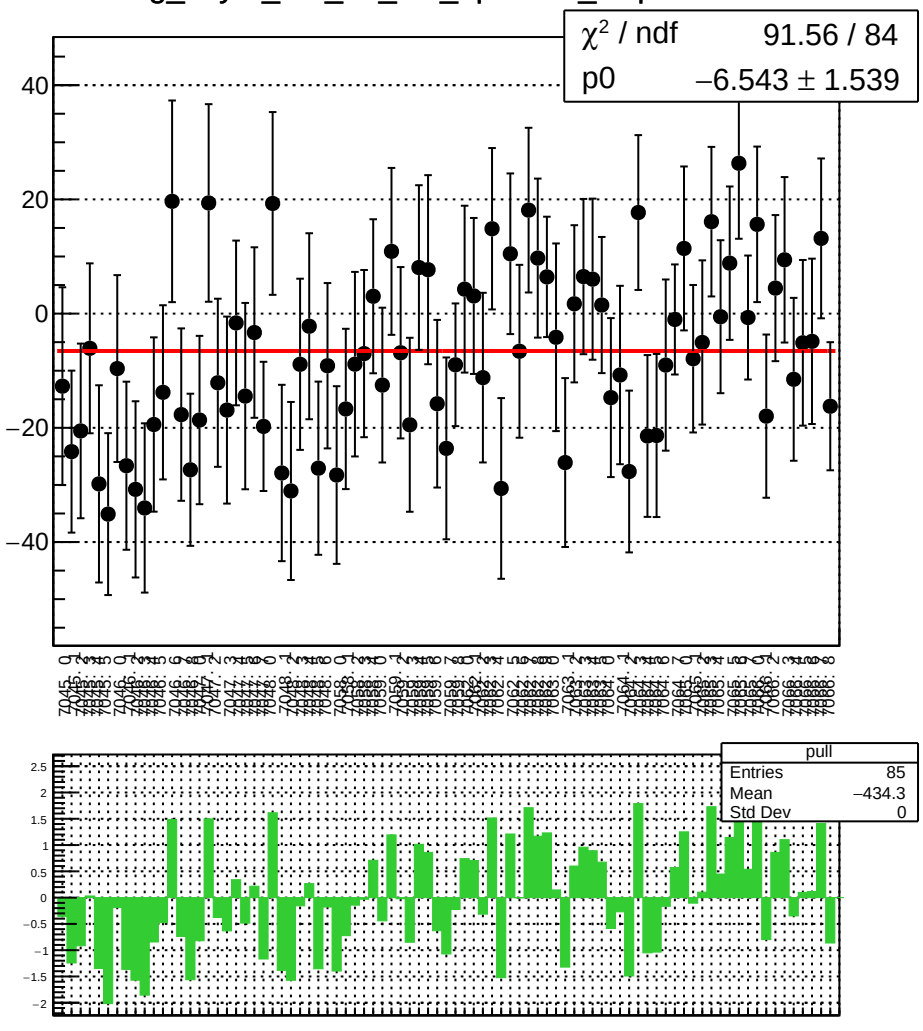

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 98.12 / 84
p0 46.53 ± 2.146
pull
Entries 85
Mean −64.84
Std Dev 0

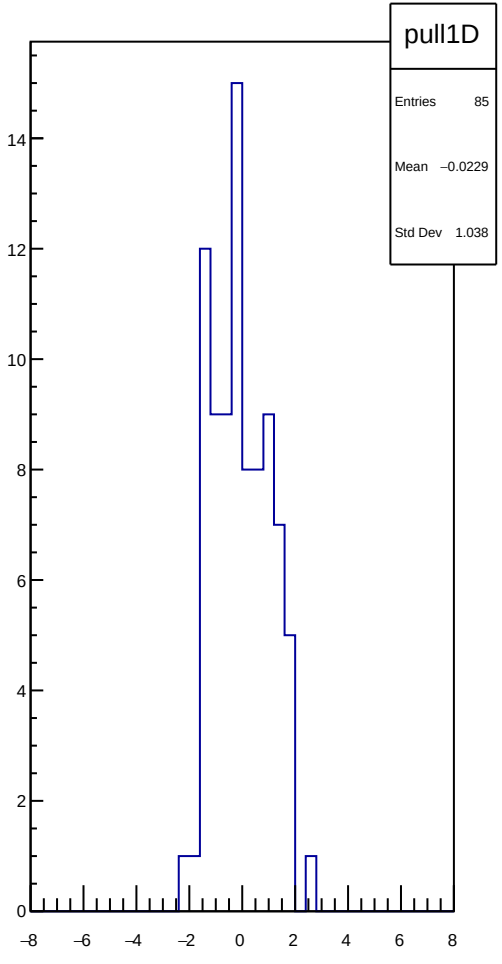

pull1D
Entries 85
Mean −0.04416
Std Dev 1.073

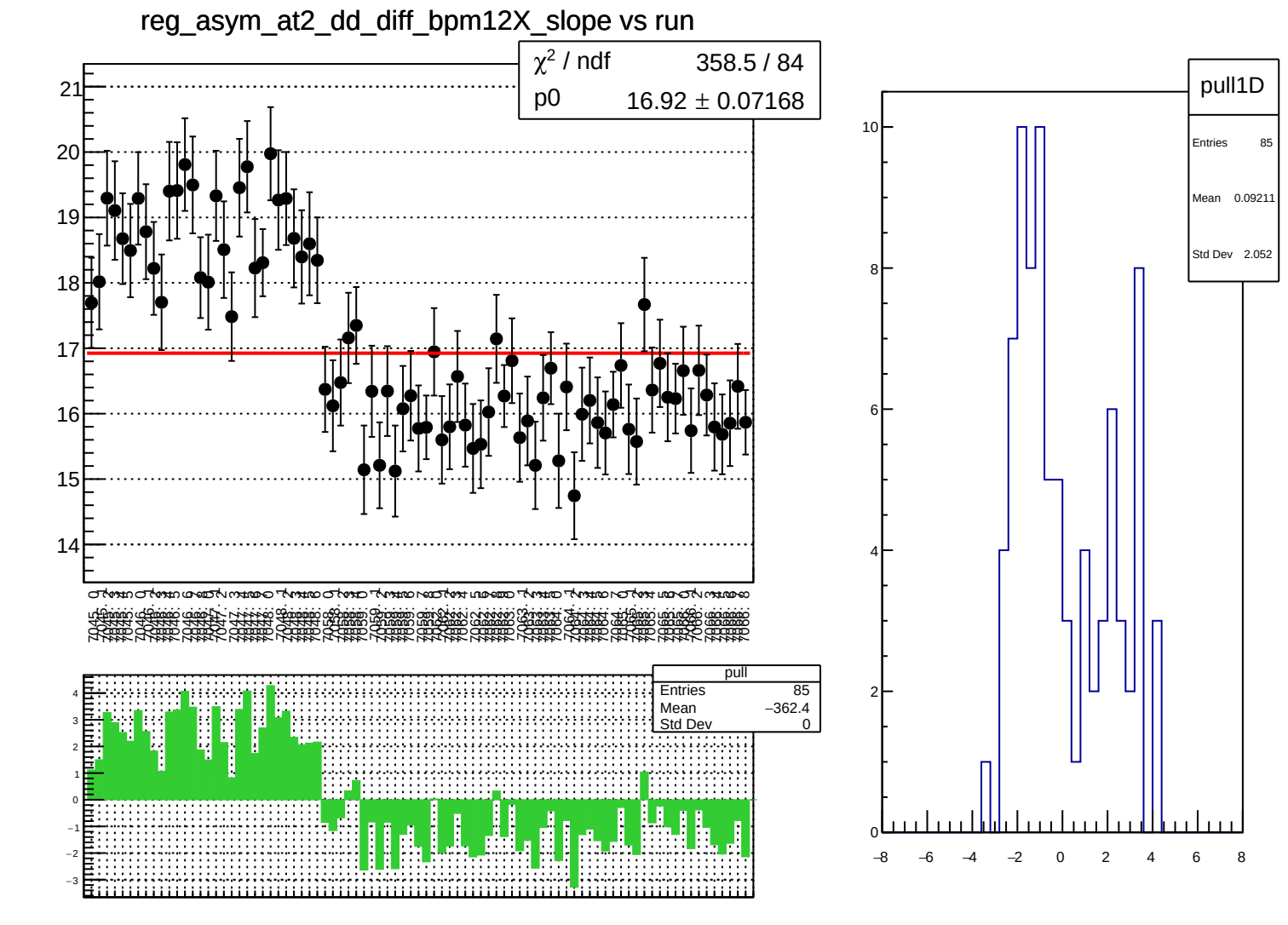

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.32 / 84
p0 −2.999 ± 1.446
pull
Entries 85
Mean −394.6
Std Dev 0

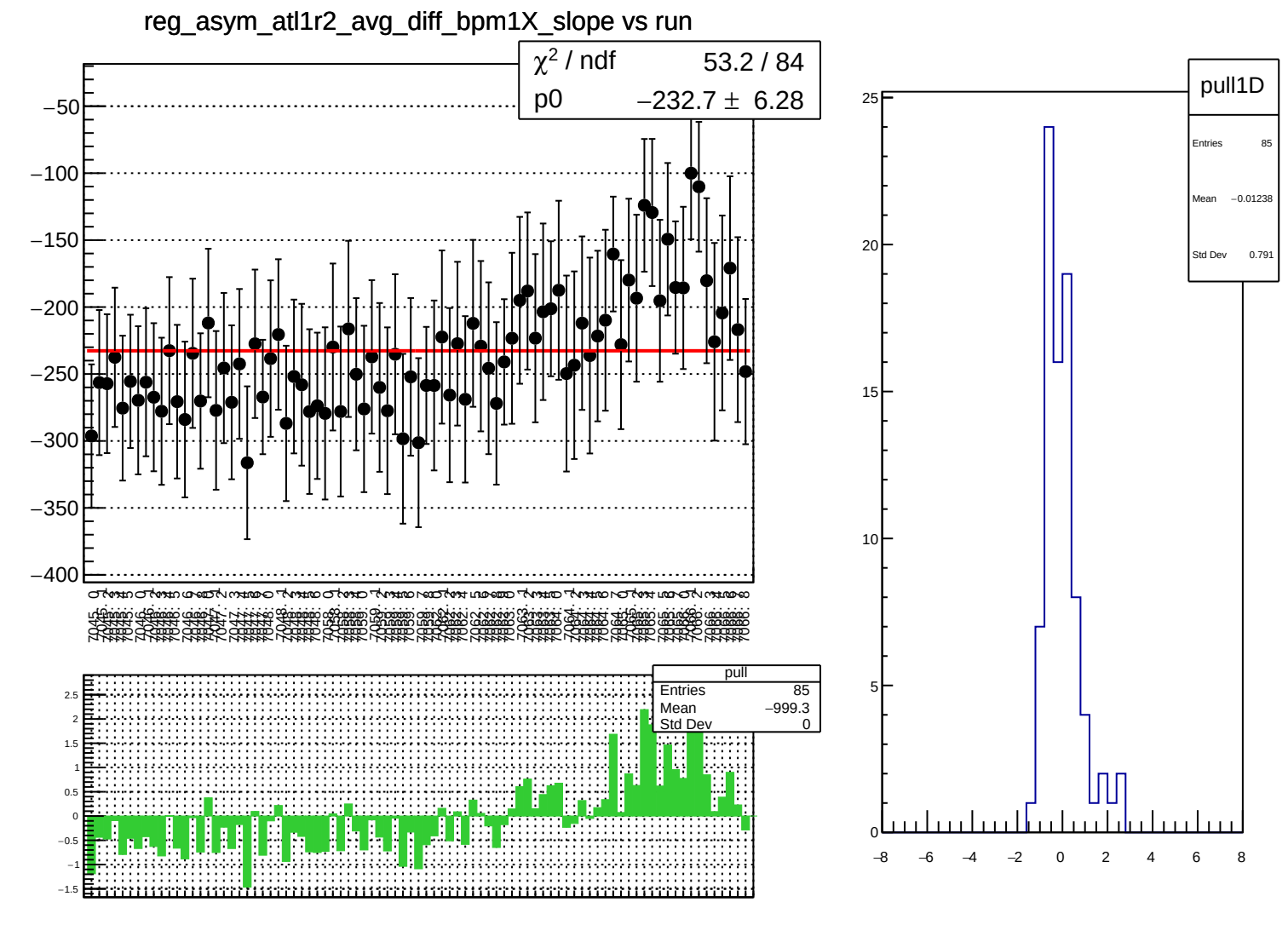

pull1D
Entries 85
Mean 0.02284
Std Dev 1.048

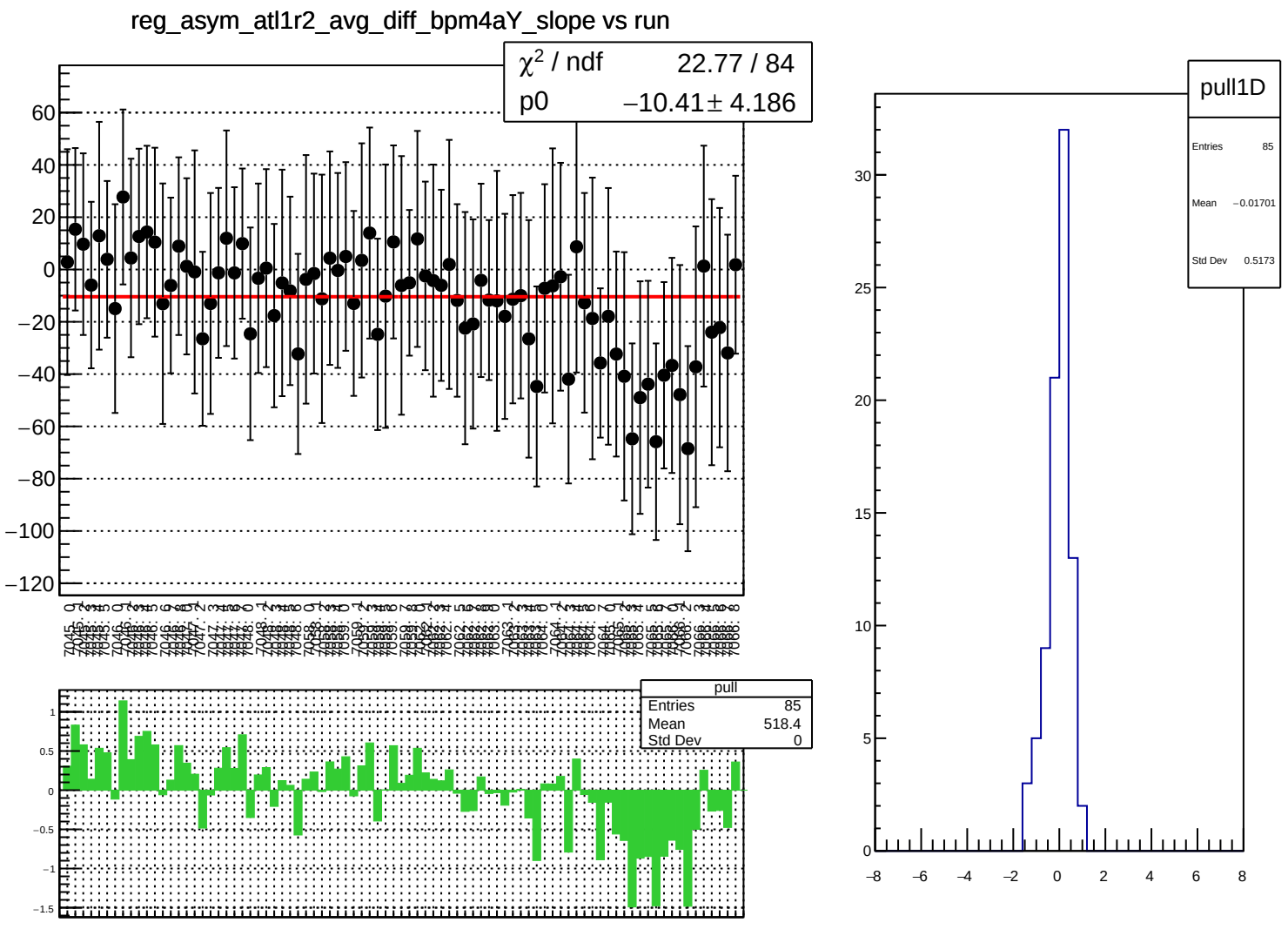

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.78 / 84
p0 38.47 ± 2.048
pull
Entries 85
Mean −79.49
Std Dev 0
pull1D
Entries 85
Mean 0.04775
Std Dev 1.066

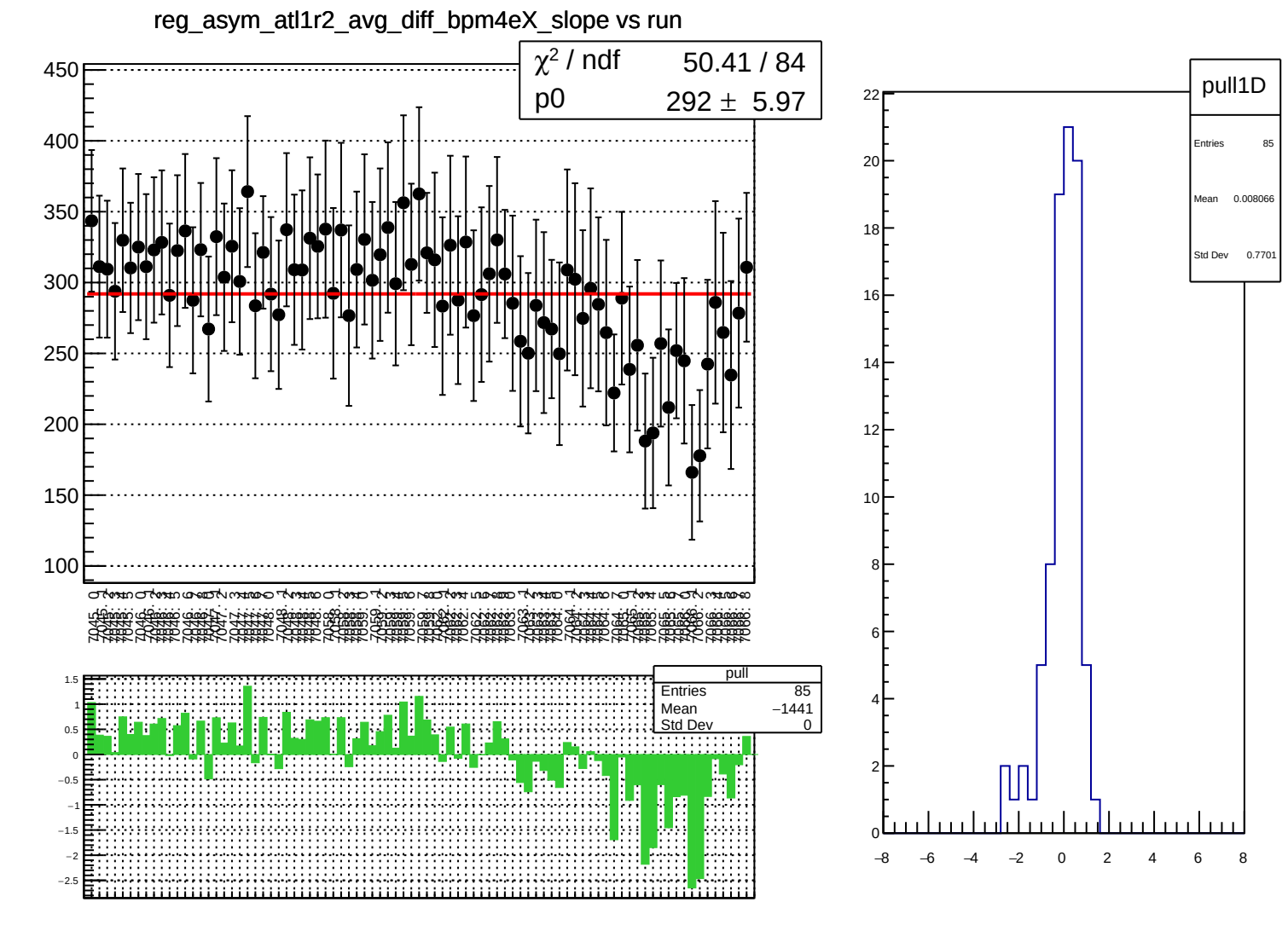

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.56 / 84
p0 −6.543 ± 1.539
pull
Entries 85
Mean −434.3
Std Dev 0

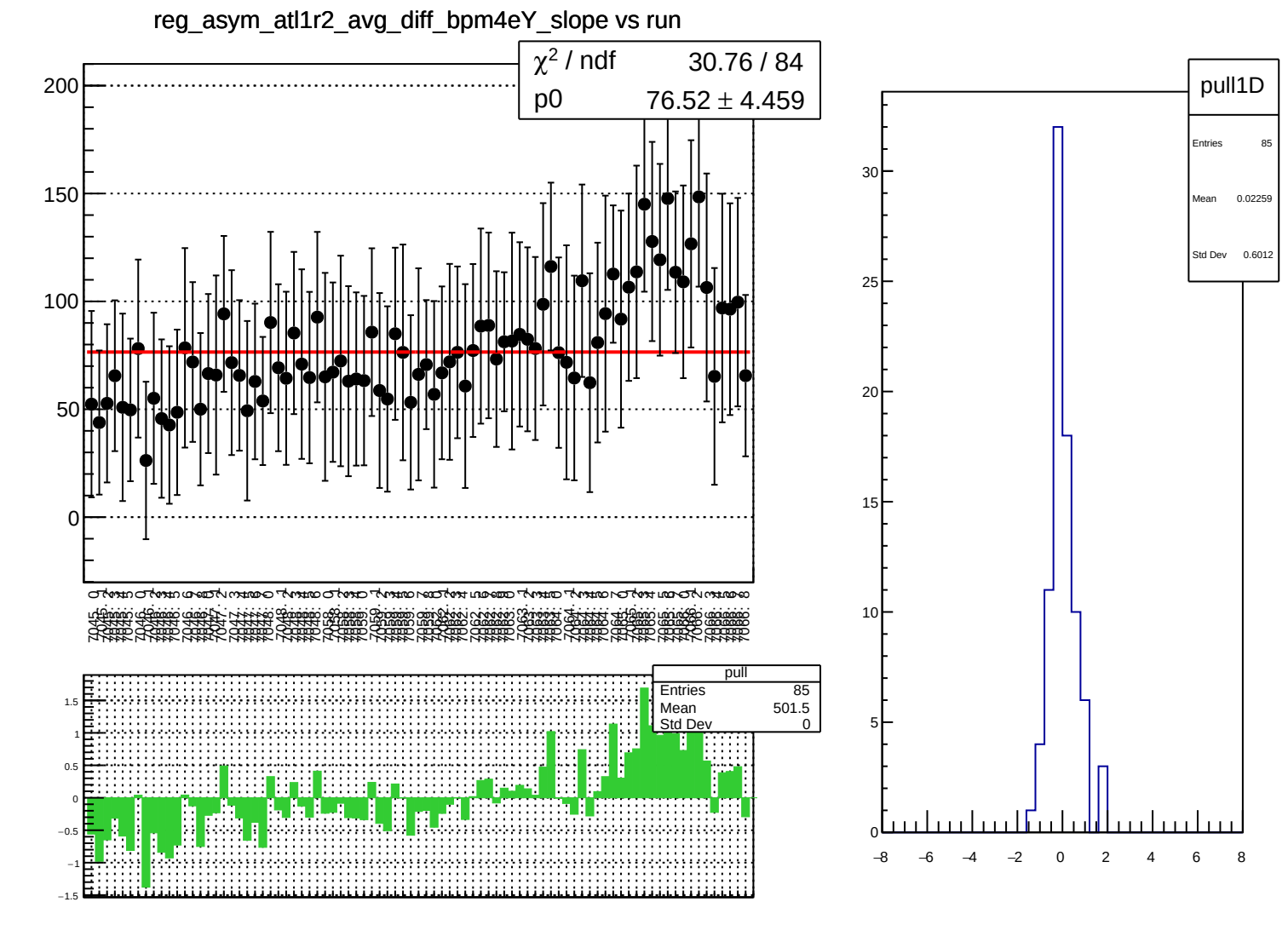

pull1D
Entries 85
Mean −0.0229
Std Dev 1.038

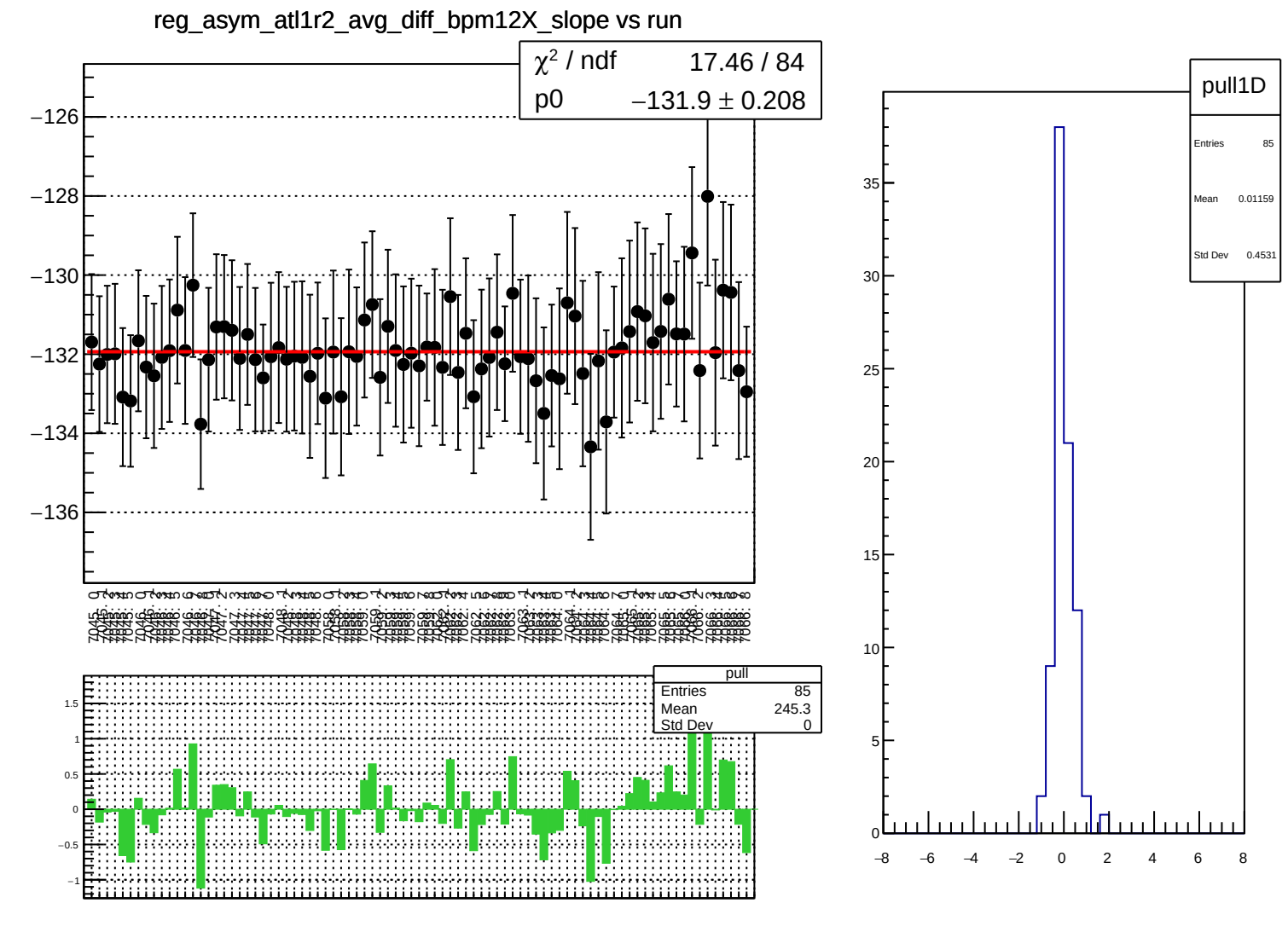

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 358.5 / 84
p0 16.92 ± 0.07168
pull
Entries 85
Mean −362.4
Std Dev 0
pull1D
Entries 85
Mean 0.09211
Std Dev 2.052

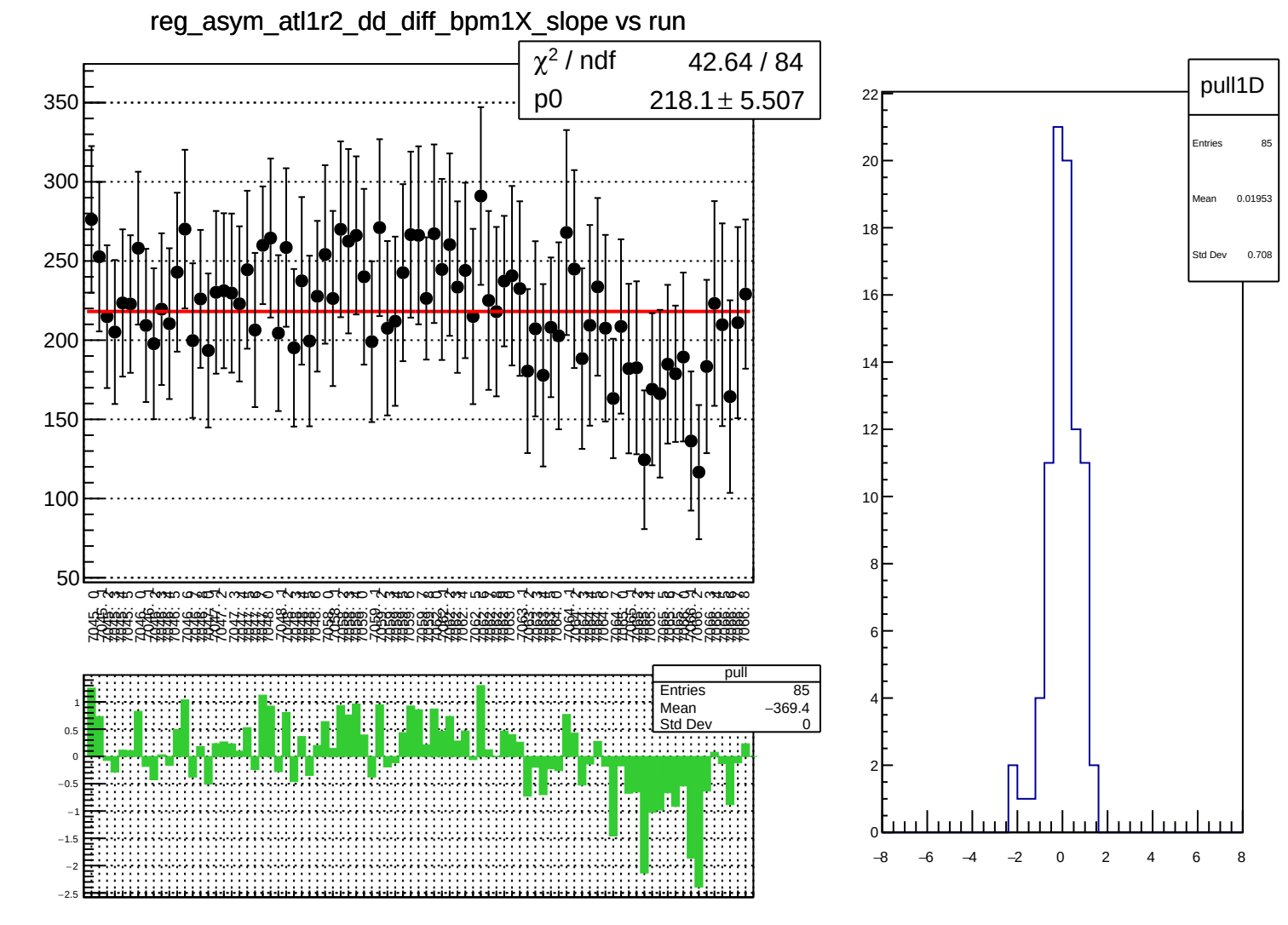

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 53.2 / 84
p0 −232.7 ± 6.28
pull
Entries 85
Mean −999.3
Std Dev 0
pull1D
Entries 85
Mean −0.01238
Std Dev 0.791

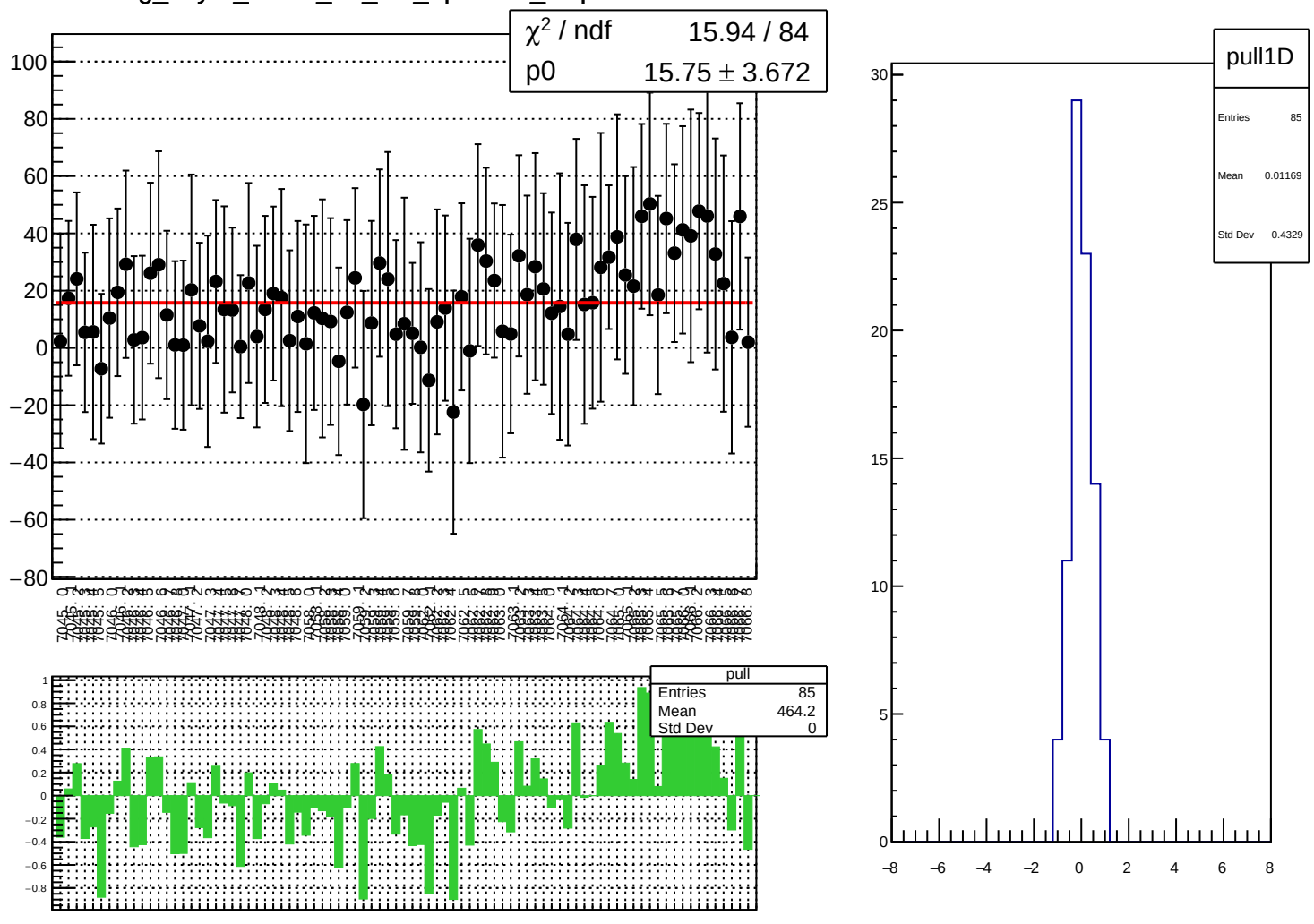

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.77 / 84
p0 −10.41 ± 4.186
pull
Entries 85
Mean 518.4
Std Dev 0
pull1D
Entries 85
Mean −0.01701
Std Dev 0.5173

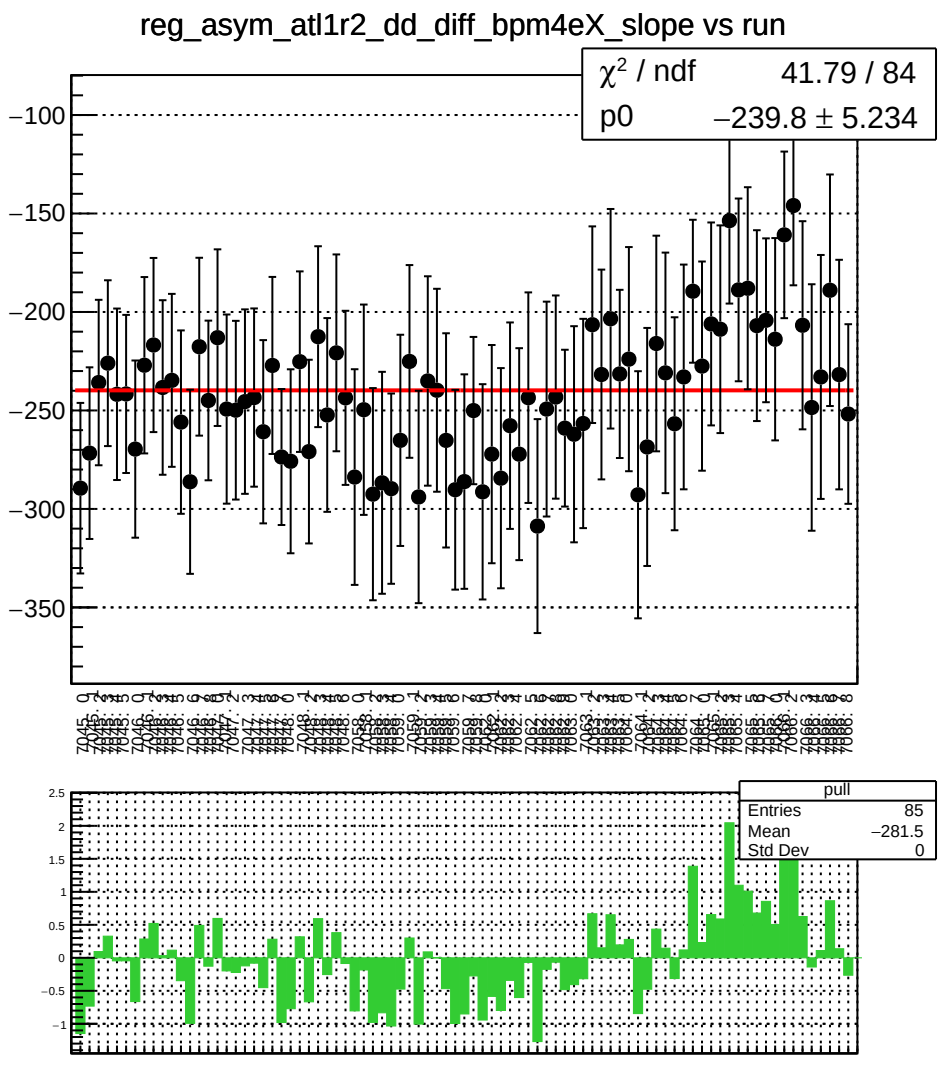

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.41 / 84
p0 292 ± 5.97
pull
Entries 85
Mean −1441
Std Dev 0
pull1D
Entries 85
Mean 0.008066
Std Dev 0.7701

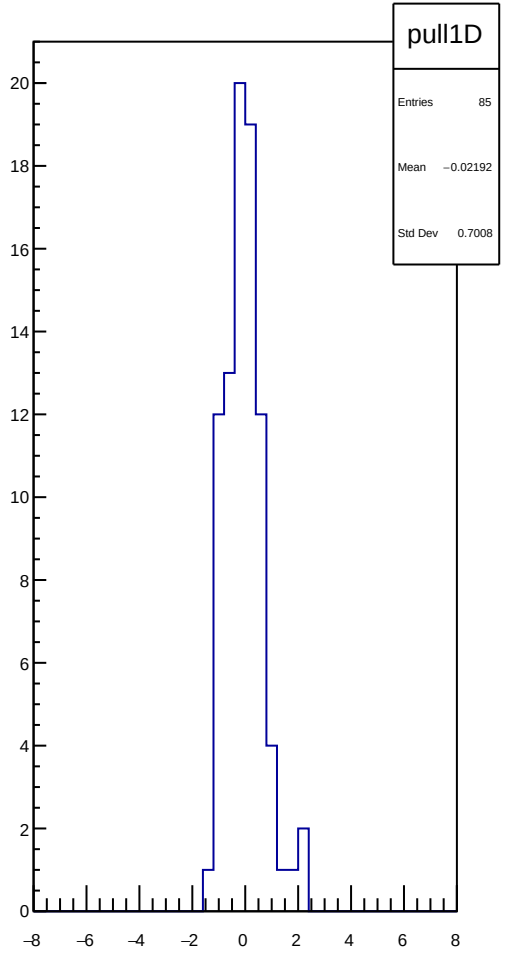

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.76 / 84
p0 76.52 ± 4.459
pull
Entries 85
Mean 501.5
Std Dev 0
pull1D
Entries 85
Mean 0.02259
Std Dev 0.6012

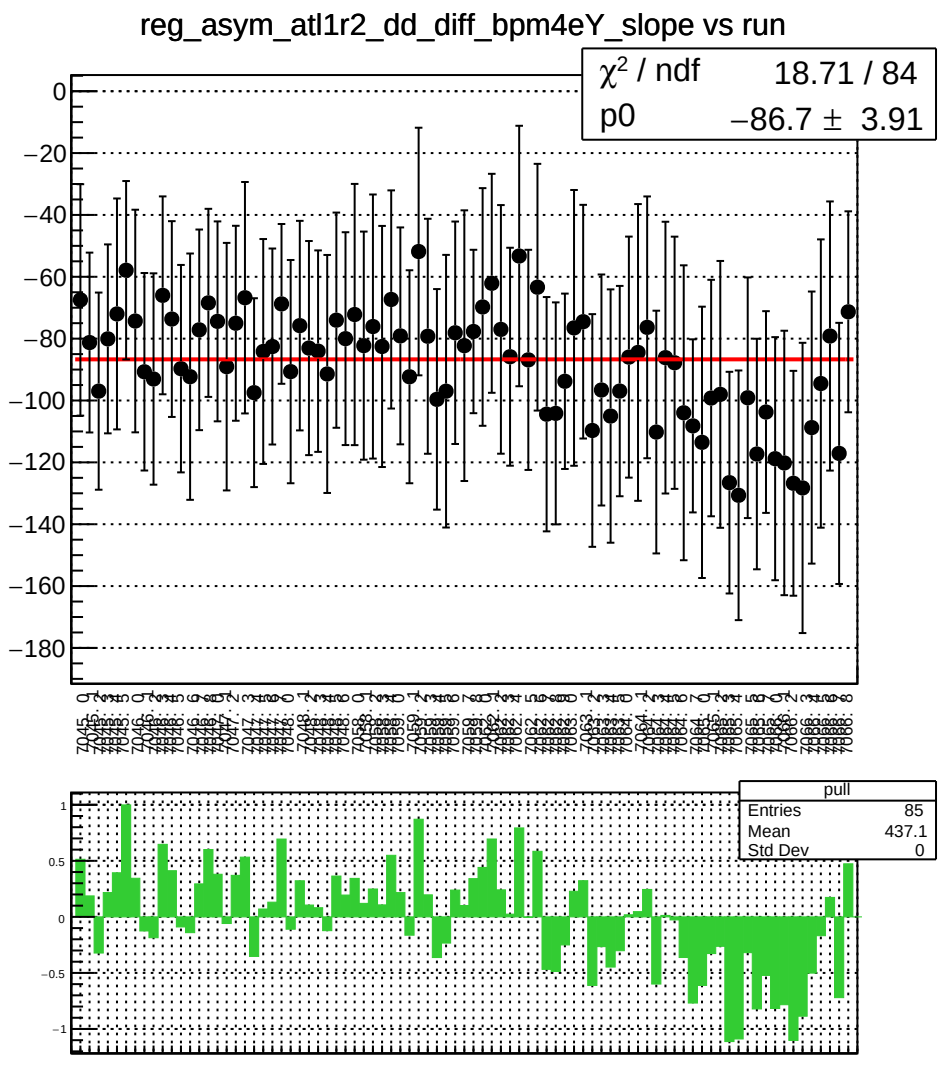

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.46 / 84
p0 −131.9 ± 0.208
−126
−128
−130
−132
−134
−136
pull
Entries 85
Mean 245.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean 0.01159
Std Dev 0.4531
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

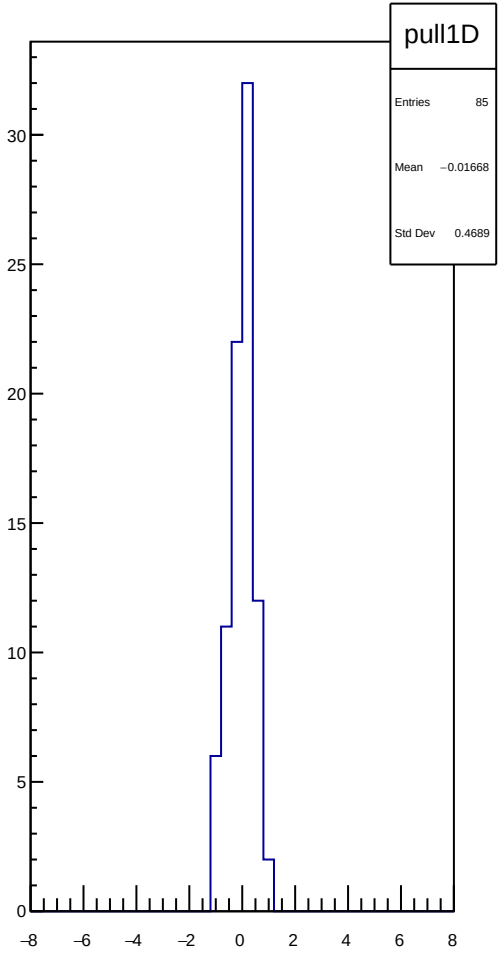

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 42.64 / 84
p0 218.1 ± 5.507
pull
Entries 85
Mean −369.4
Std Dev 0
pull1D
Entries 85
Mean 0.01953
Std Dev 0.708

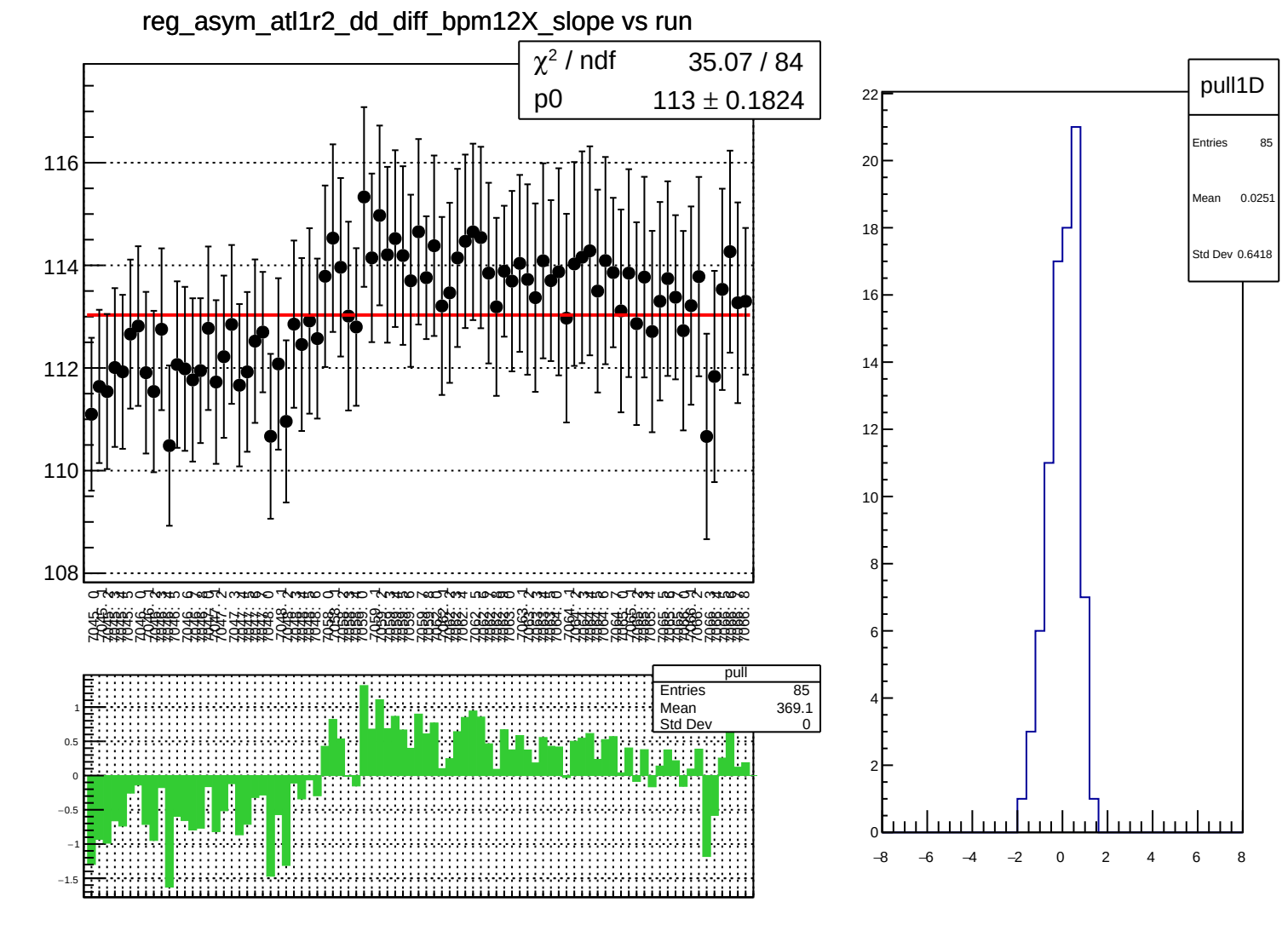

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.94 / 84
p0 15.75 ± 3.672
pull
Entries 85
Mean 464.2
Std Dev 0
pull1D
Entries 85
Mean 0.01169
Std Dev 0.4329

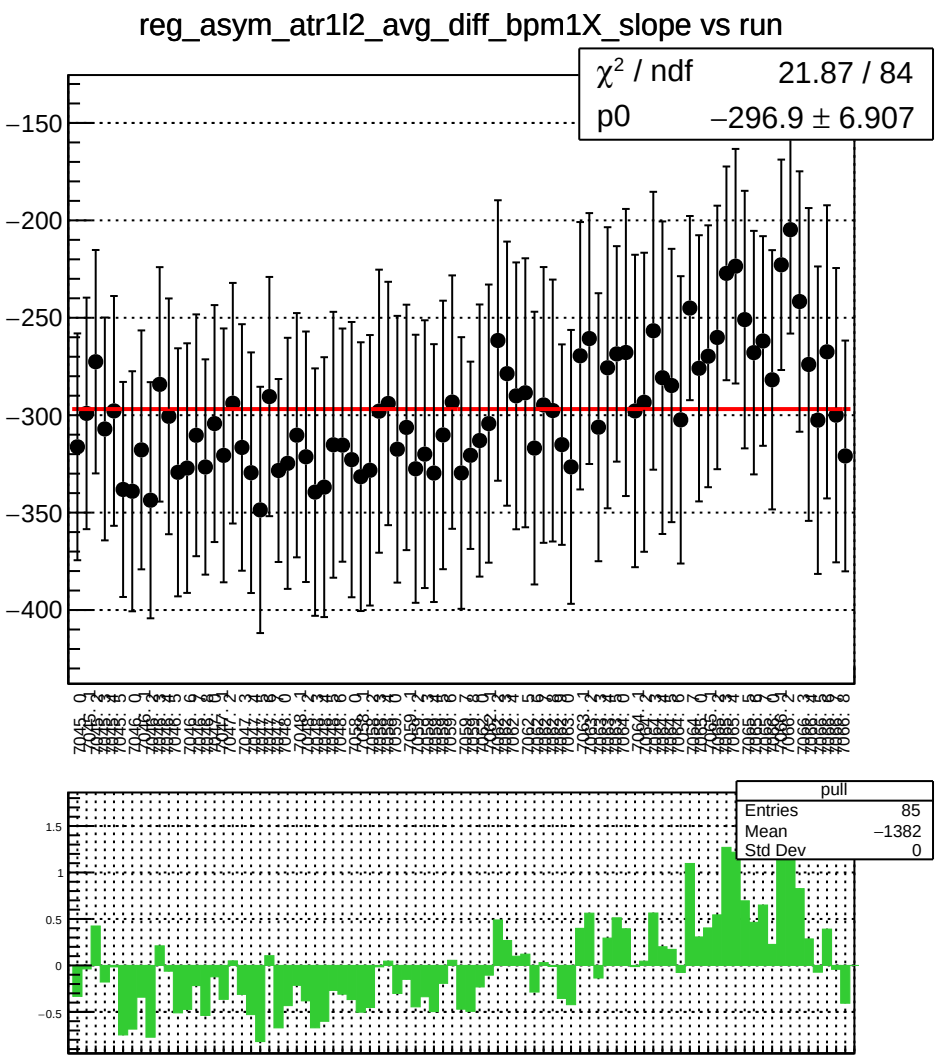

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.79 / 84
p0 −239.8 ± 5.234
−100
−150
−200
−250
−300
−350
pull
Entries 85
Mean −281.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

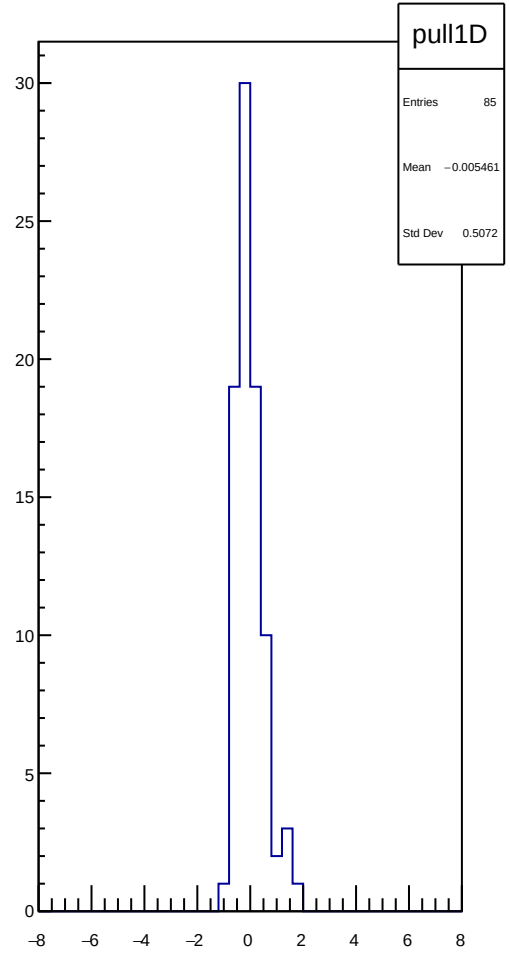

pull1D
Entries 85
Mean −0.02192
Std Dev 0.7008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

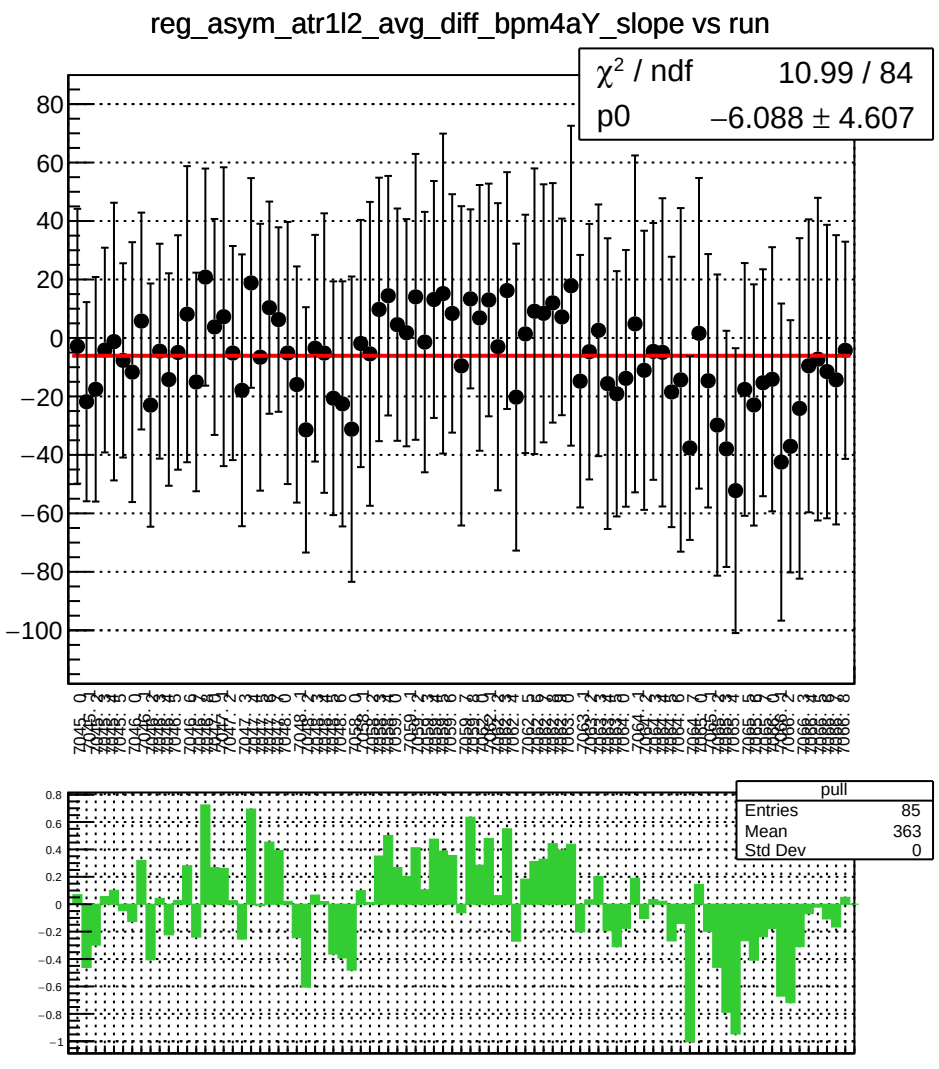

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.71 / 84
p0 −86.7 ± 3.91
pull
Entries 85
Mean 437.1
Std Dev 0

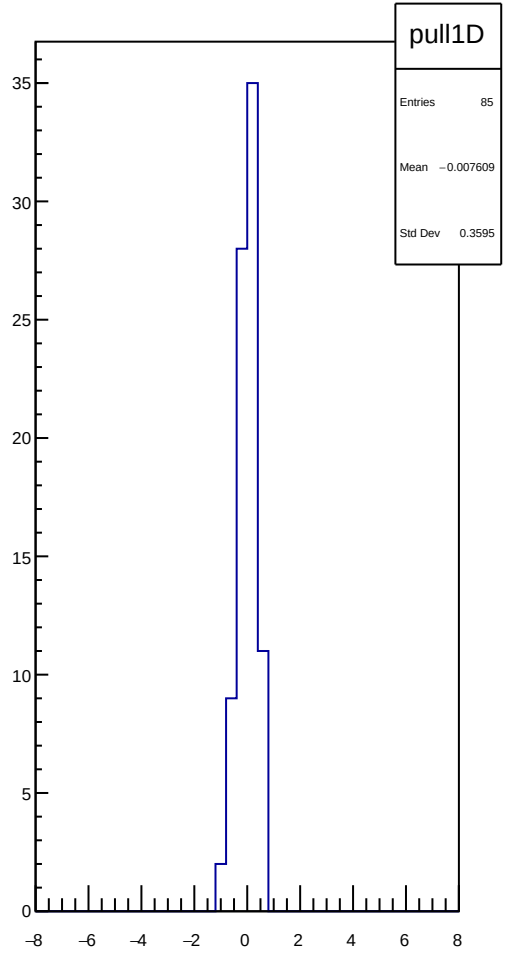

pull1D
Entries 85
Mean −0.01668
Std Dev 0.4689

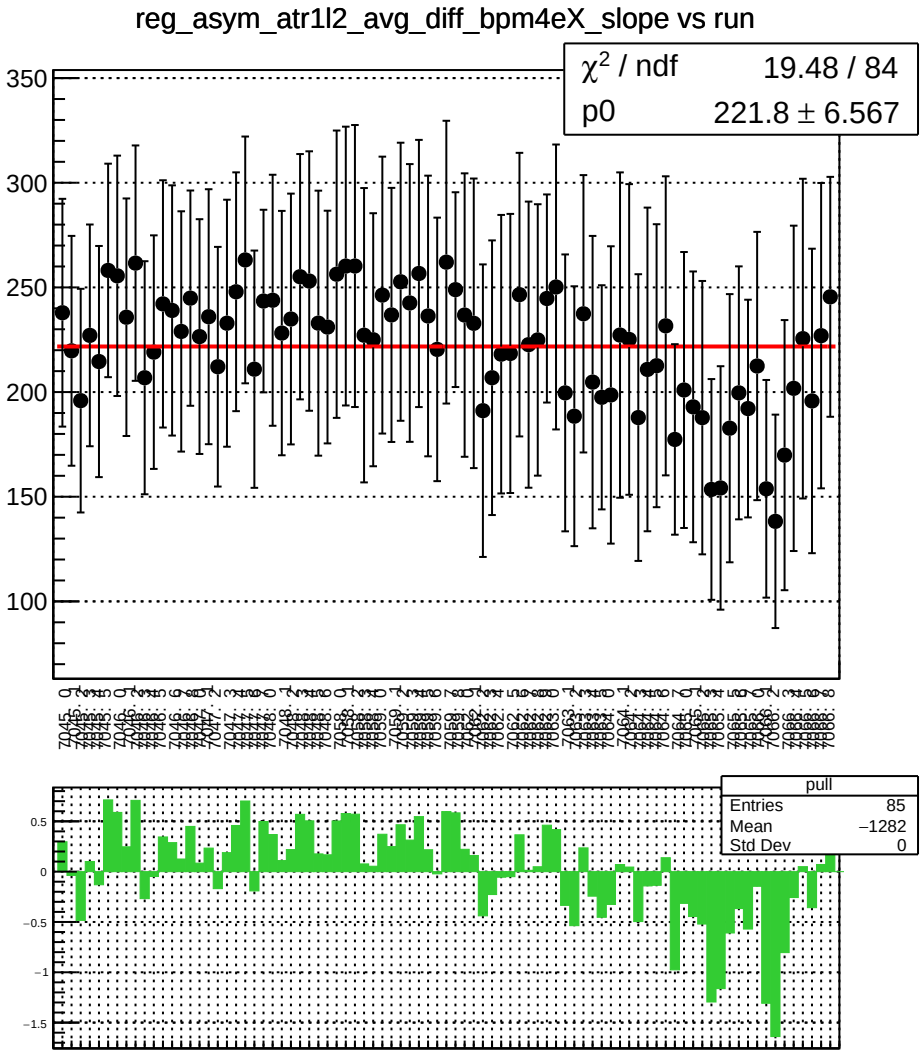

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 35.07 / 84
p0 113 ± 0.1824
116
114
112
110
108
pull
Entries 85
Mean 369.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean 0.0251
Std Dev 0.6418
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

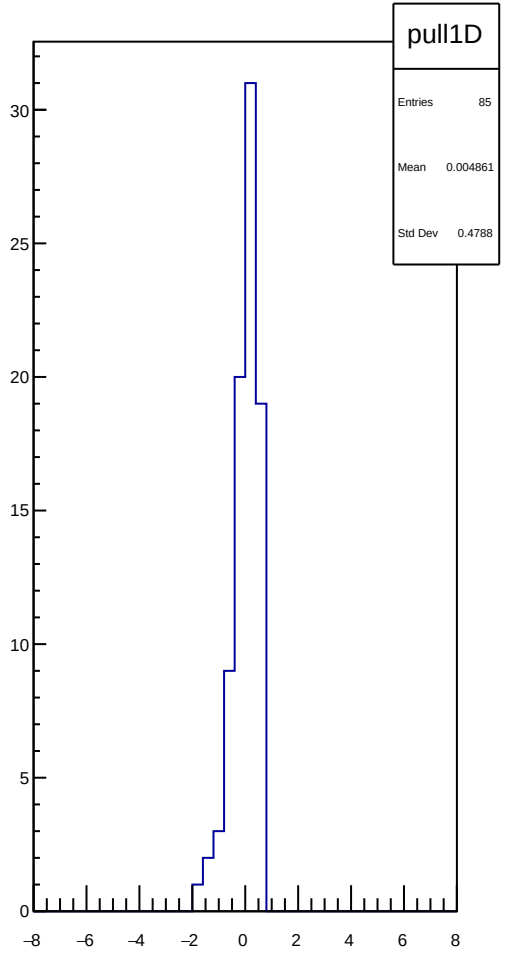

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.87 / 84
p0 −296.9 ± 6.907
pull
Entries 85
Mean −1382
Std Dev 0

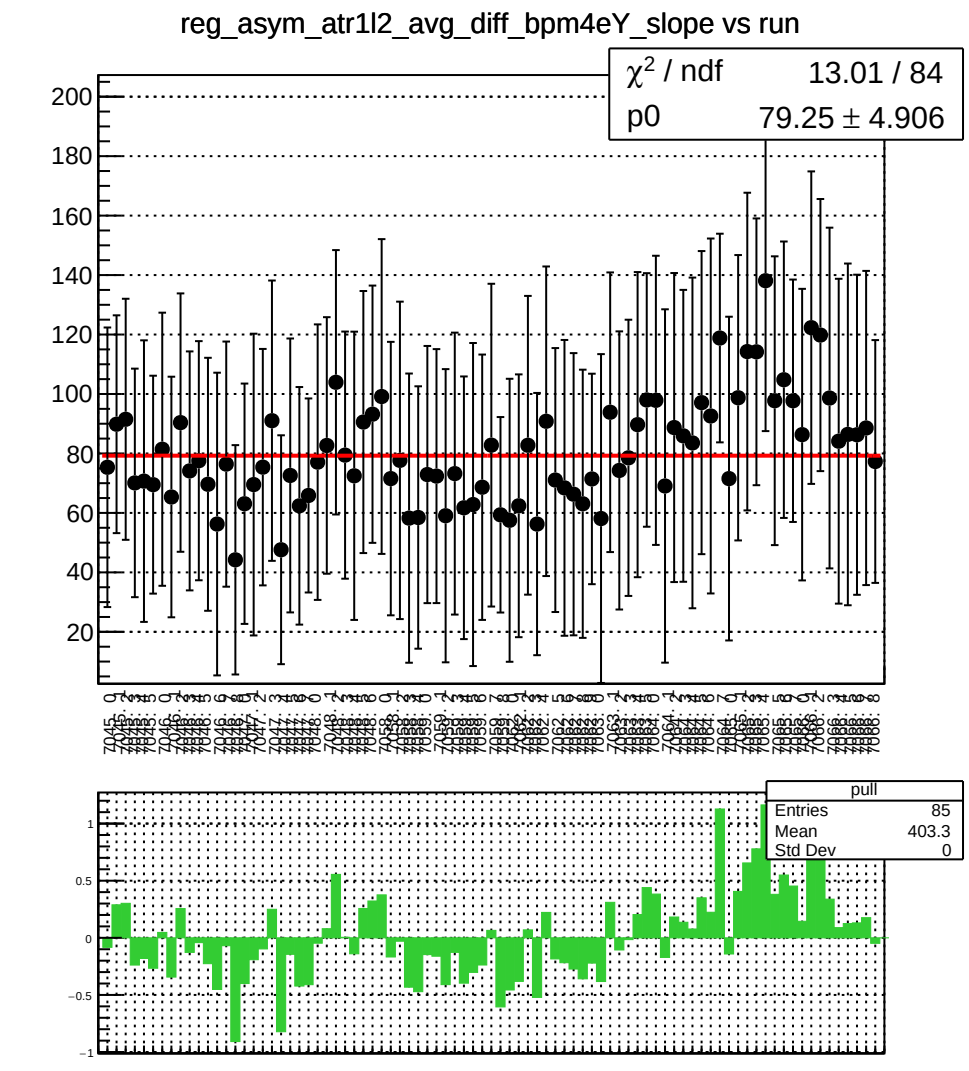

pull1D
Entries 85
Mean −0.005461
Std Dev 0.5072

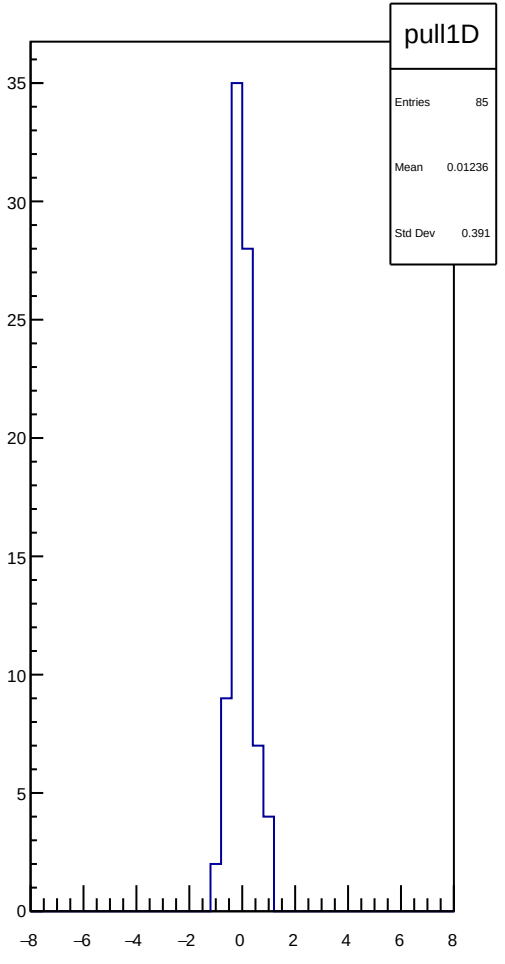

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.99 / 84
p0 −6.088 ± 4.607
pull
Entries 85
Mean 363
Std Dev 0

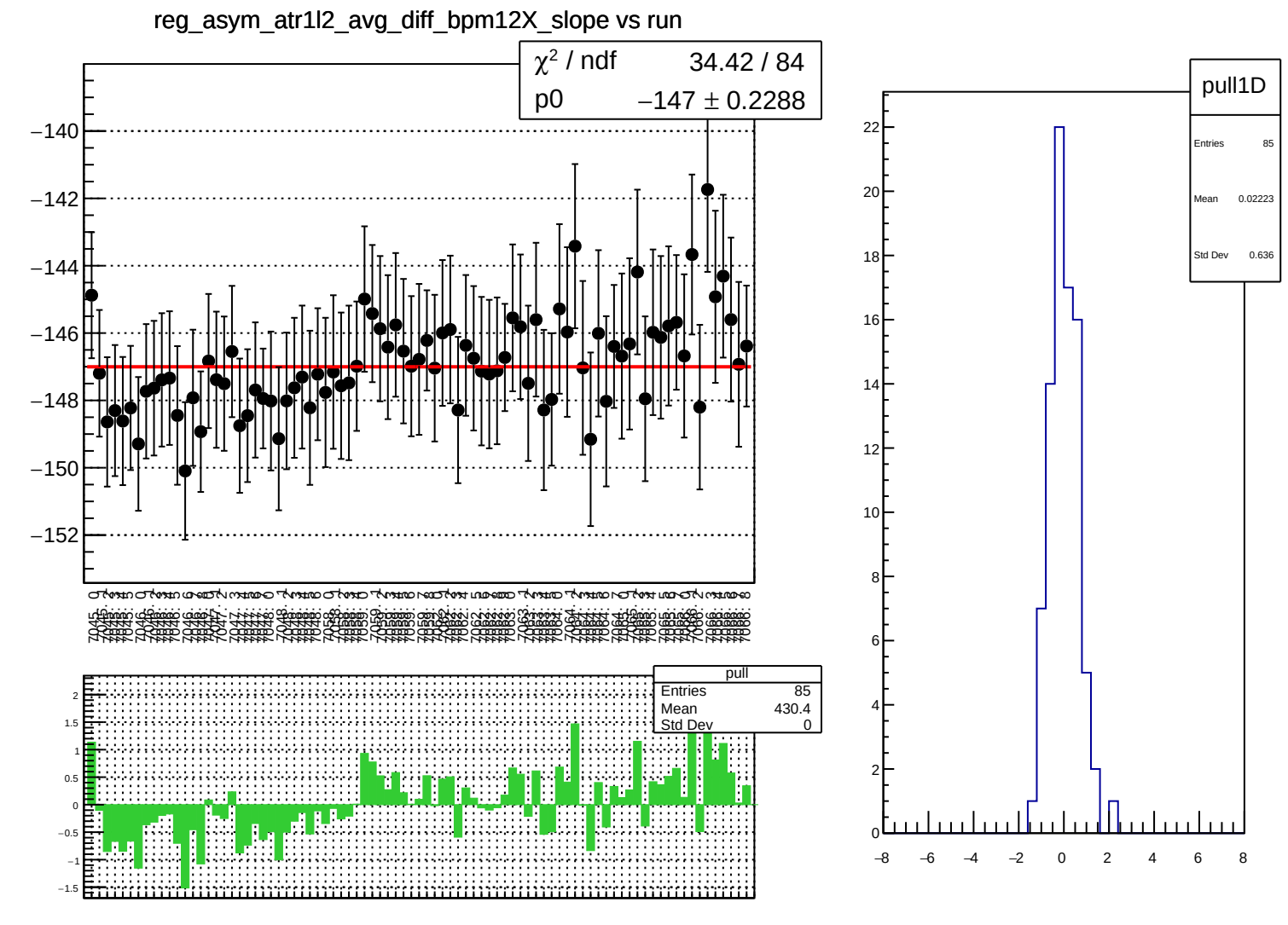

pull1D
Entries 85
Mean −0.007609
Std Dev 0.3595

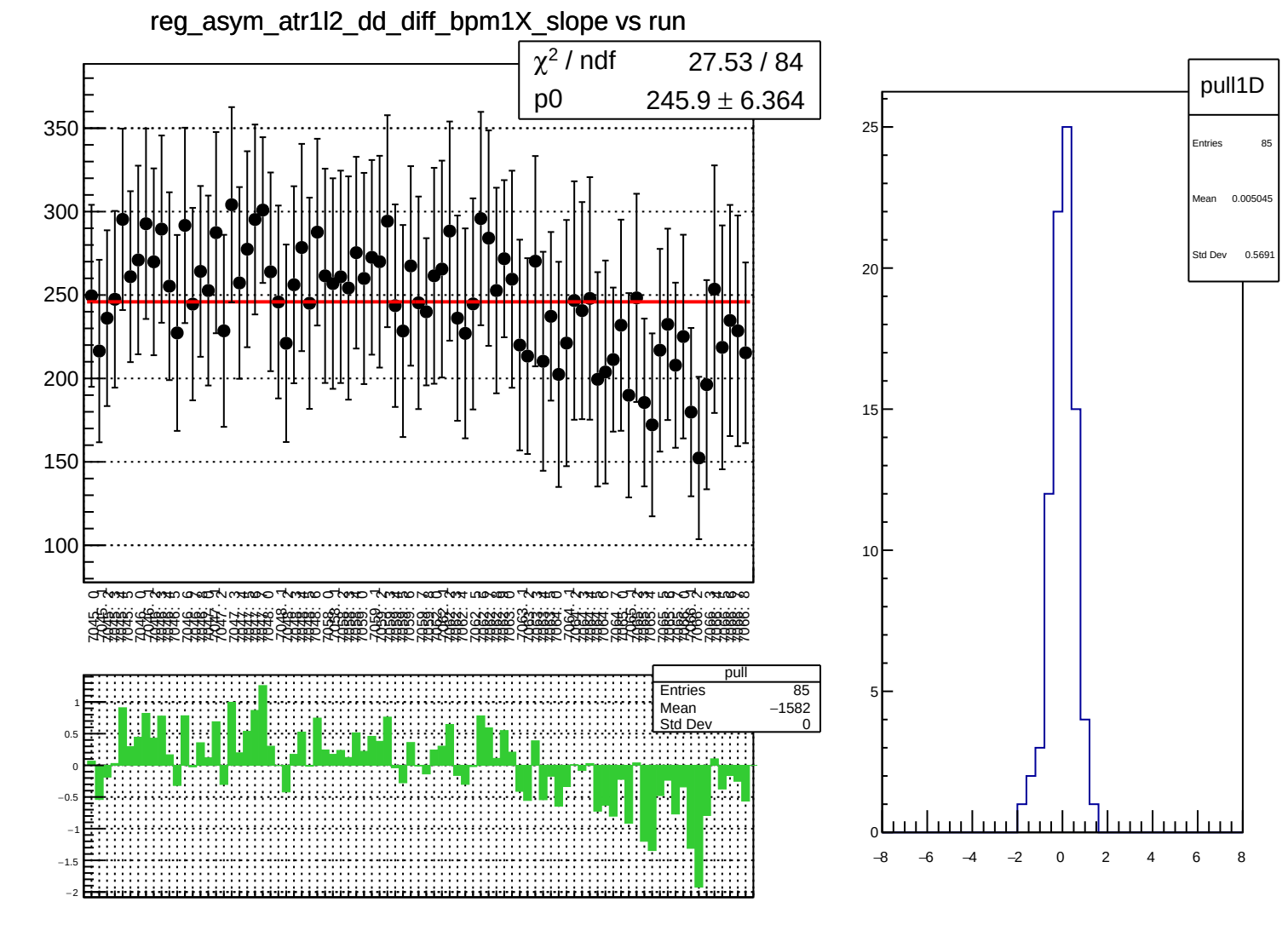

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.48 / 84
p0 221.8 ± 6.567
350
300
250
200
150
100
pull
Entries 85
Mean −1282
Std Dev 0
0.5
0
−0.5
−1
−1.5

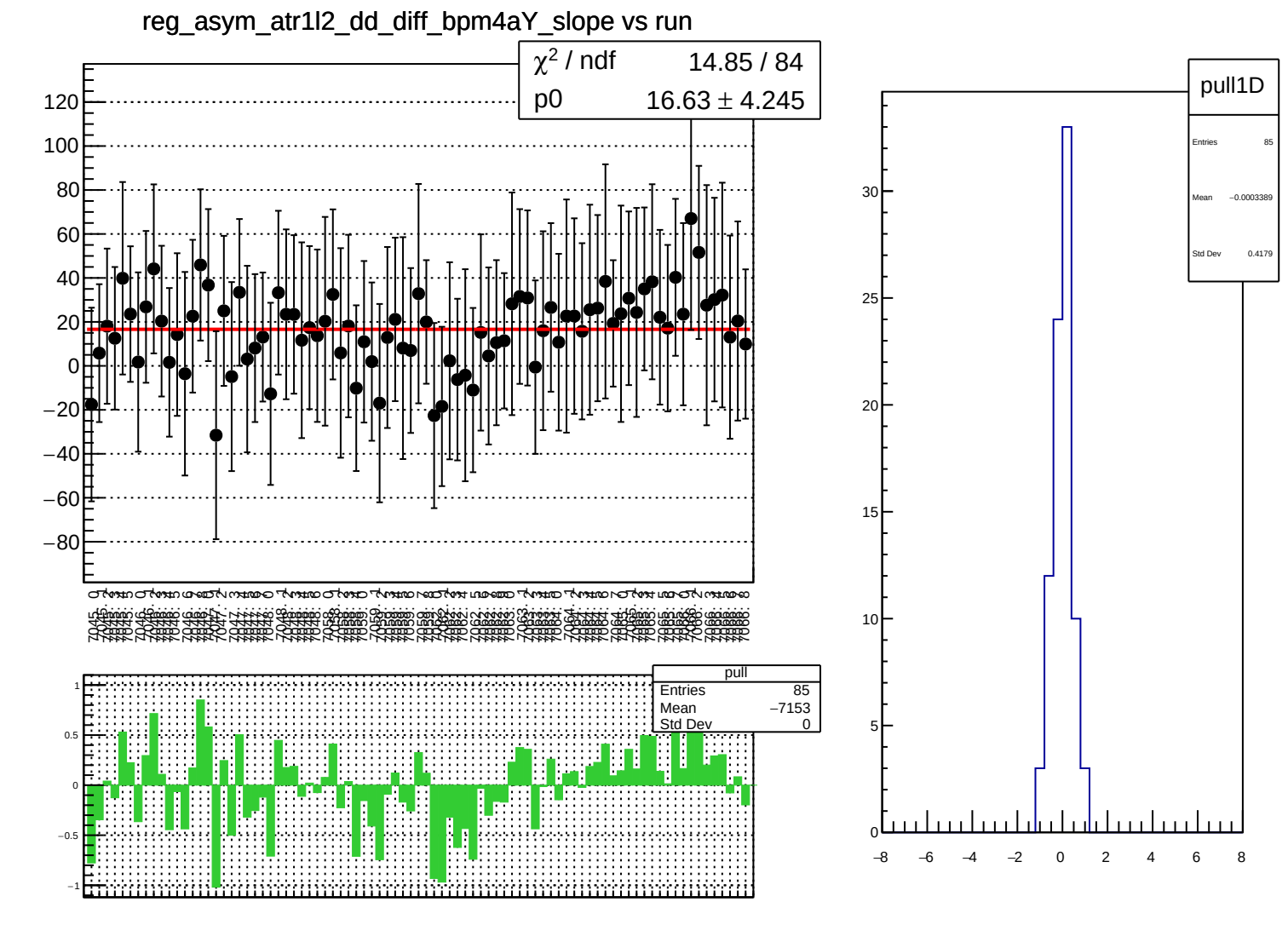

pull1D
Entries 85
Mean 0.004861
Std Dev 0.4788
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

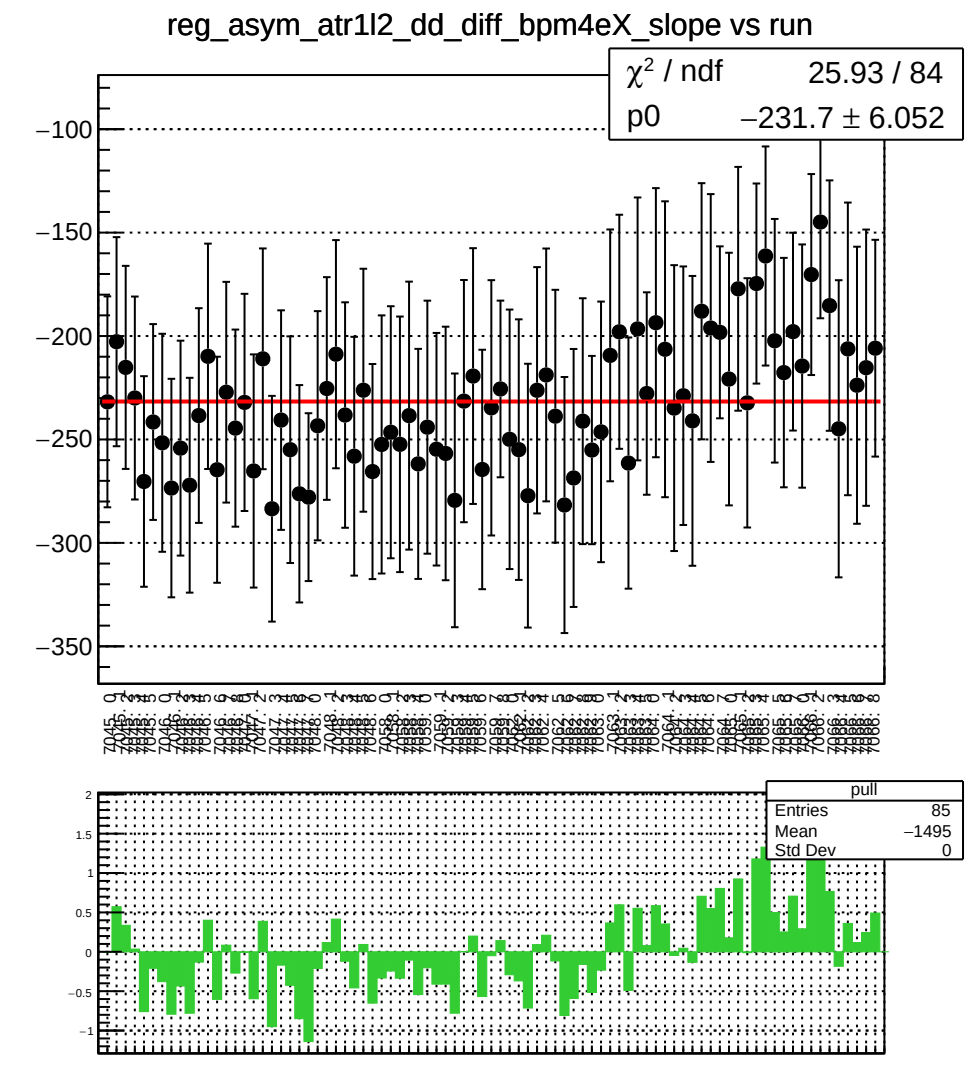

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.01 / 84
p0 79.25 ± 4.906
pull
Entries 85
Mean 403.3
Std Dev 0

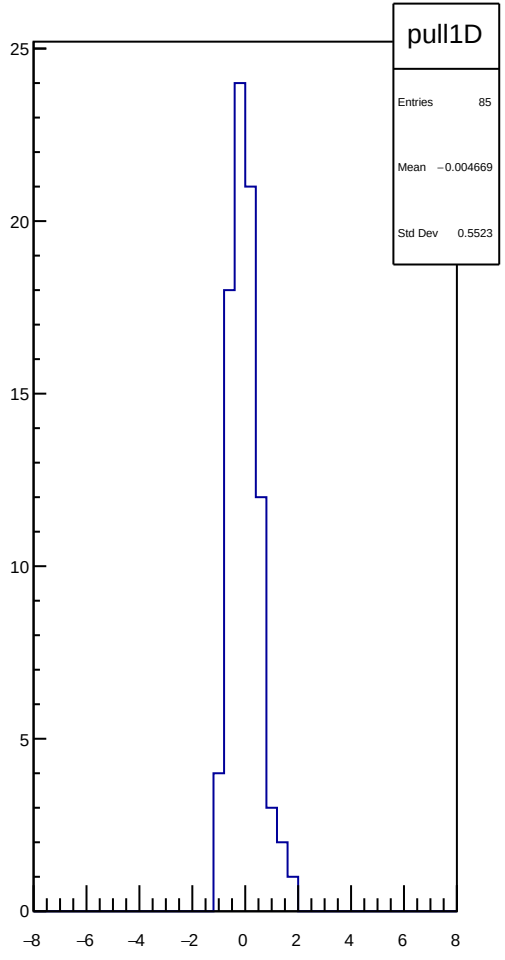

pull1D
Entries 85
Mean 0.01236
Std Dev 0.391

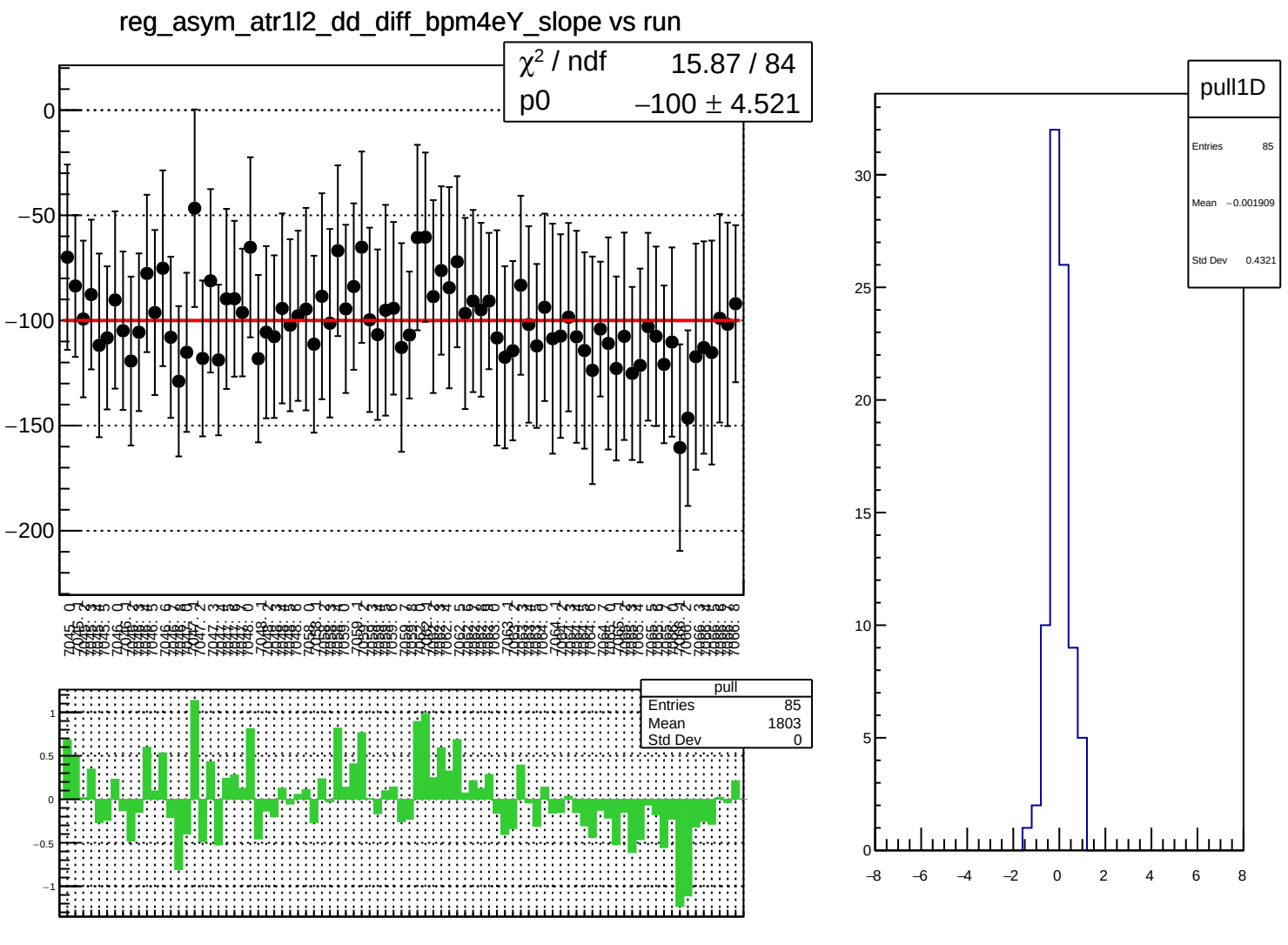

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 34.42 / 84
p0 −147 ± 0.2288
−140
−142
−144
−146
−148
−150
−152
pull
Entries 85
Mean 430.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean 0.02223
Std Dev 0.636
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

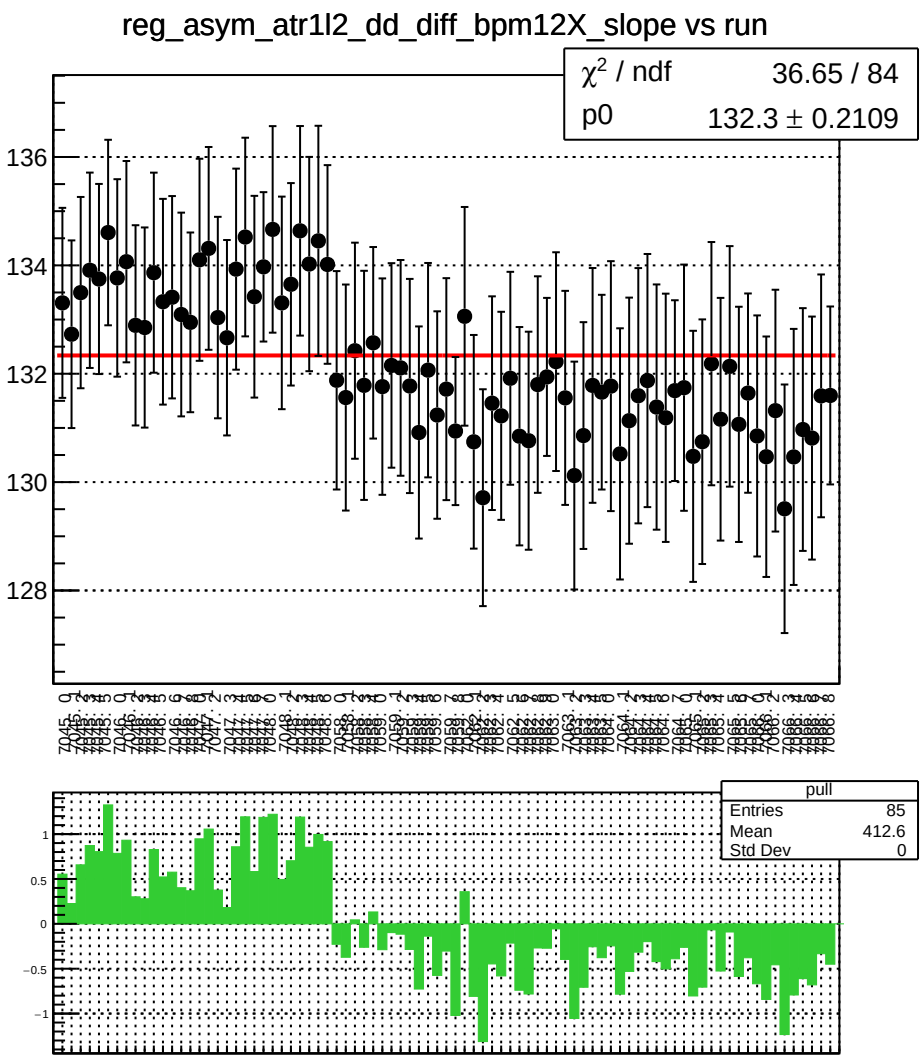

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.53 / 84
p0 245.9 ± 6.364
pull
Entries 85
Mean −1582
Std Dev 0
pull1D
Entries 85
Mean 0.005045
Std Dev 0.5691

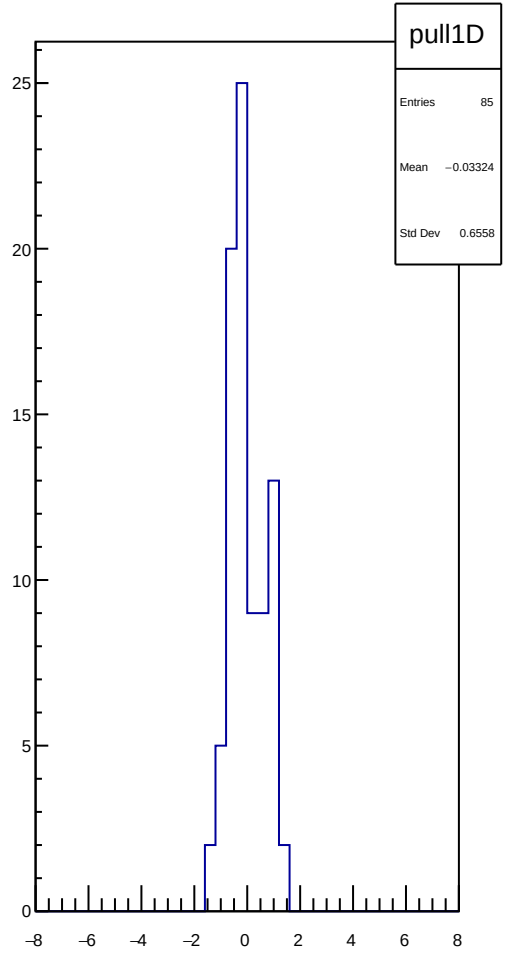

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.85 / 84
p0 16.63 ± 4.245
pull
Entries 85
Mean −7153
Std Dev 0
pull1D
Entries 85
Mean −0.0003389
Std Dev 0.4179

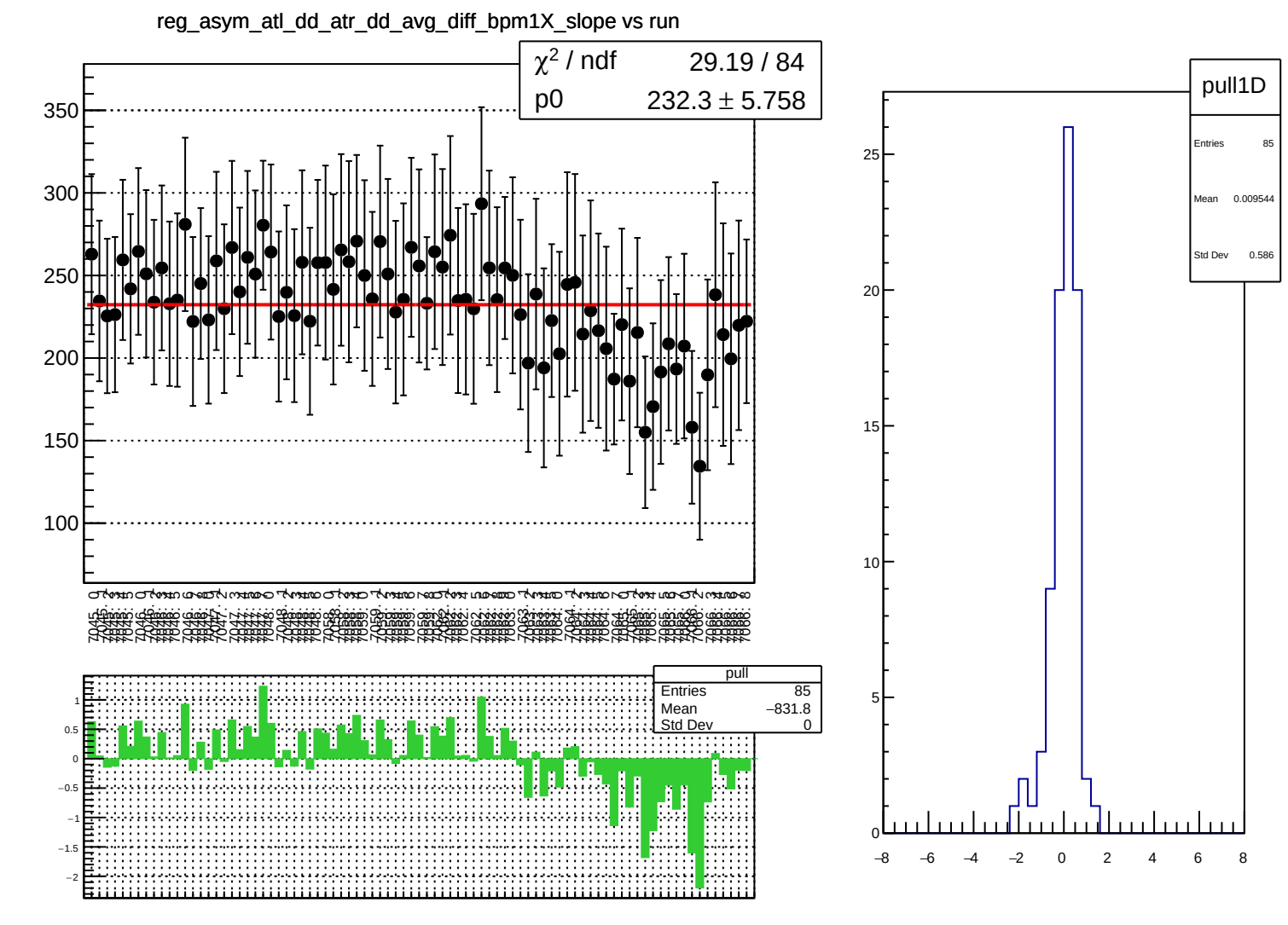

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.93 / 84
p0 −231.7 ± 6.052
−100
−150
−200
−250
−300
−350
pull
Entries 85
Mean −1495
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

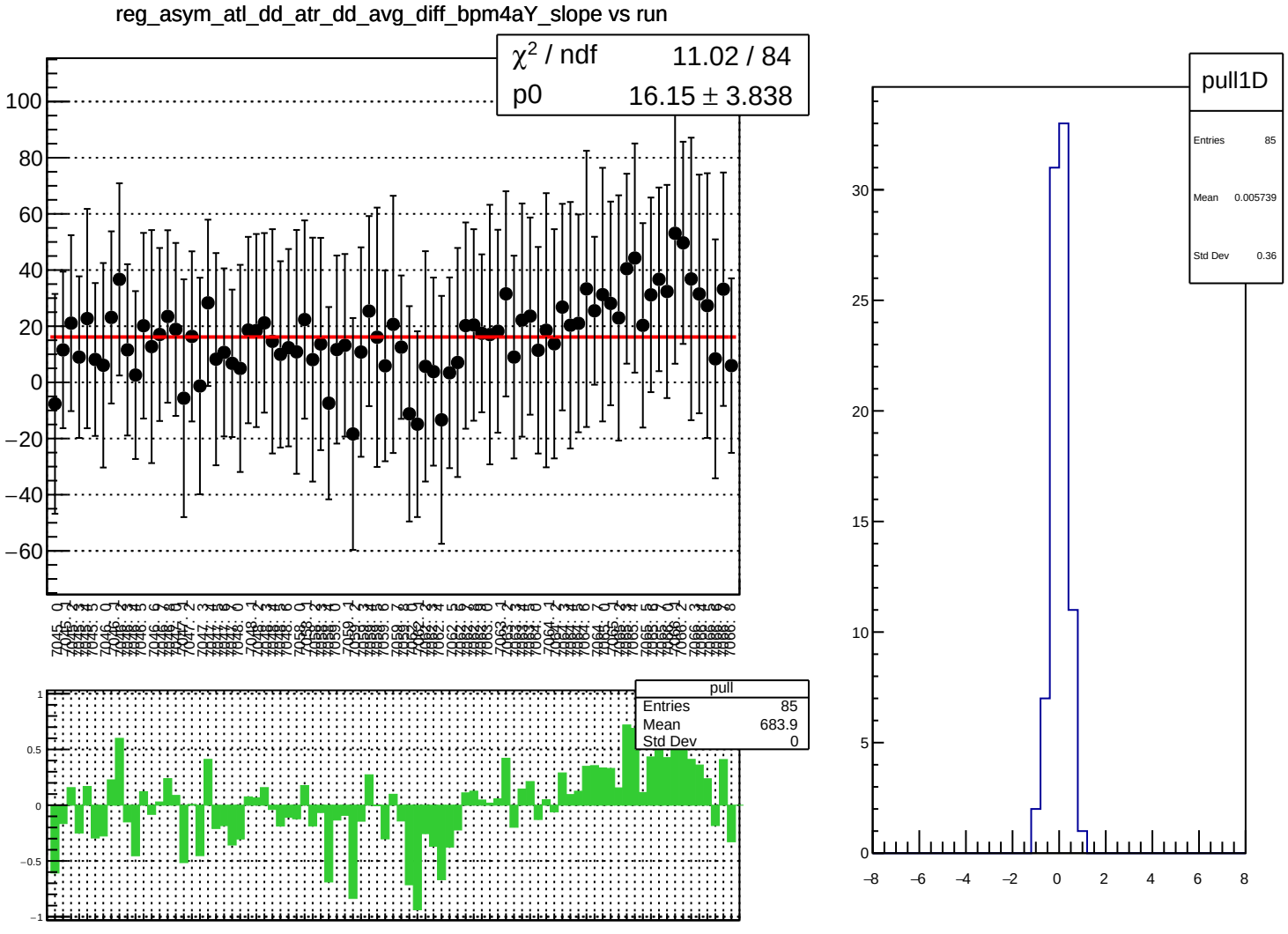

pull1D
Entries 85
Mean −0.004669
Std Dev 0.5523
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

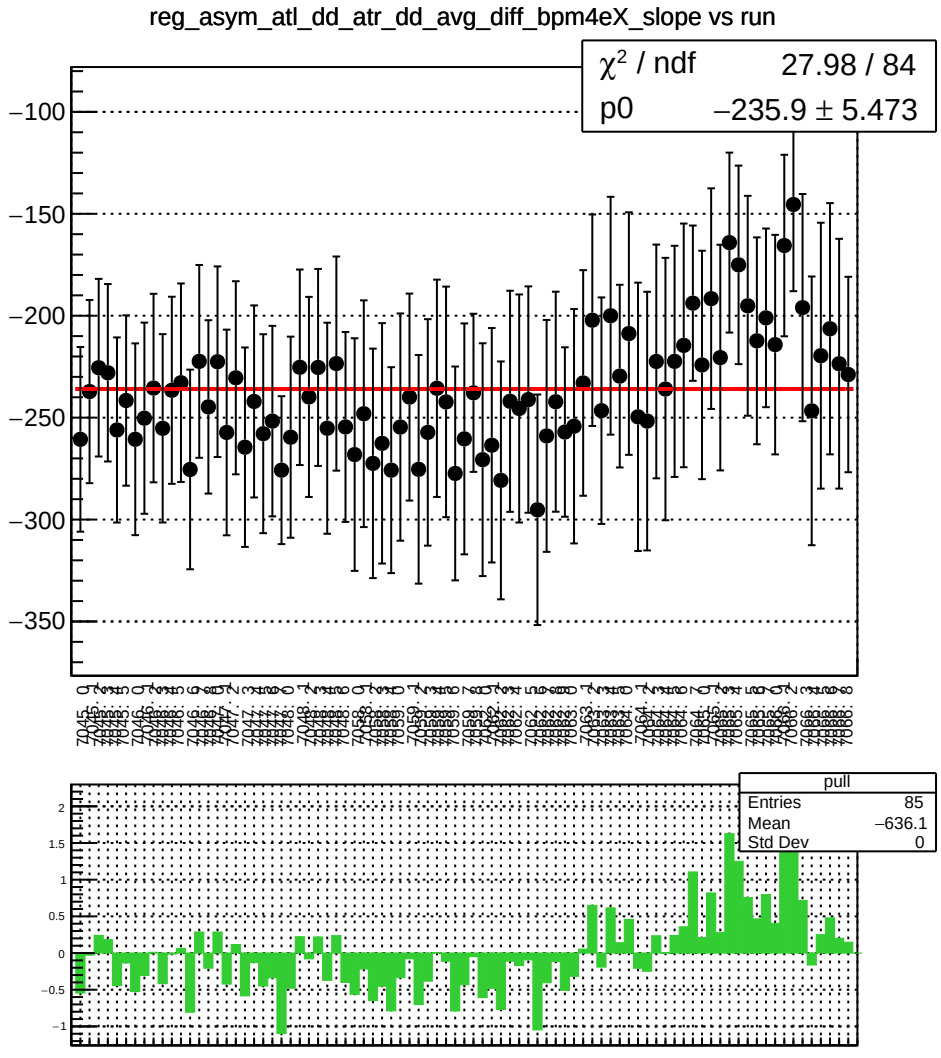

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.87 / 84
p0 −100 ± 4.521
0
−50
−100
−150
−200
pull
Entries 85
Mean 1803
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.001909
Std Dev 0.4321
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

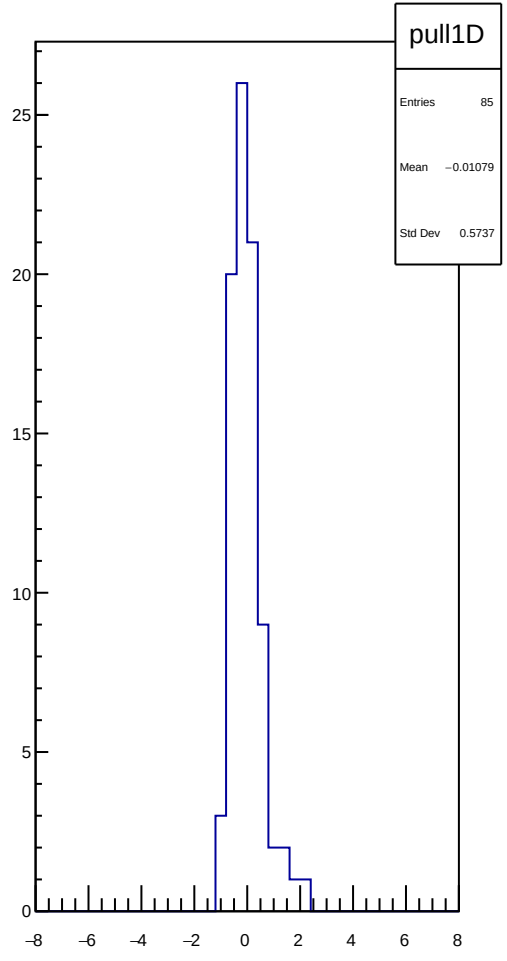

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.65 / 84
p0 132.3 ± 0.2109
136
134
132
130
128
pull
Entries 85
Mean 412.6
Std Dev 0
1
0.5
0
−0.5
−1

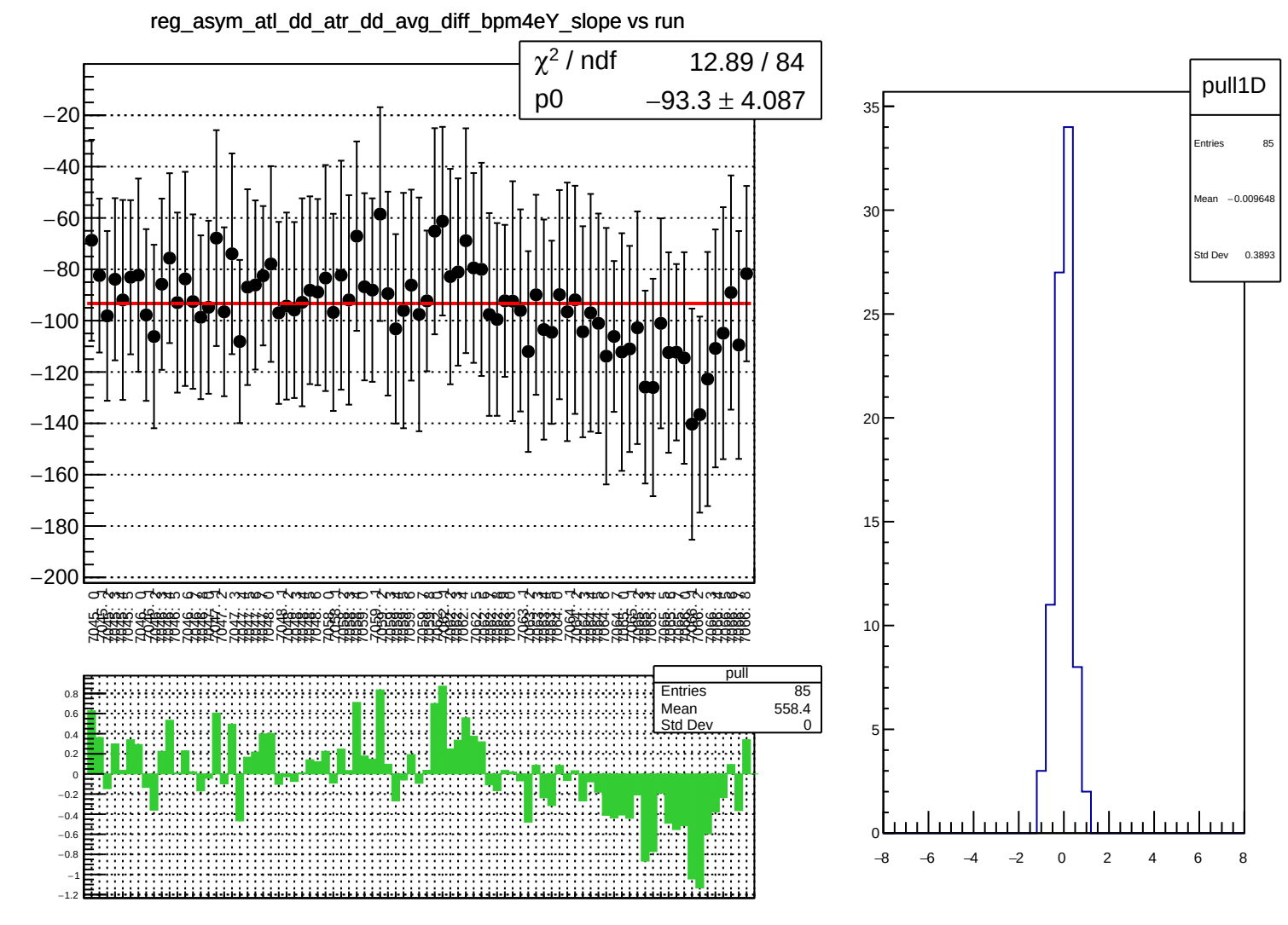

pull1D
Entries 85
Mean −0.03324
Std Dev 0.6558
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

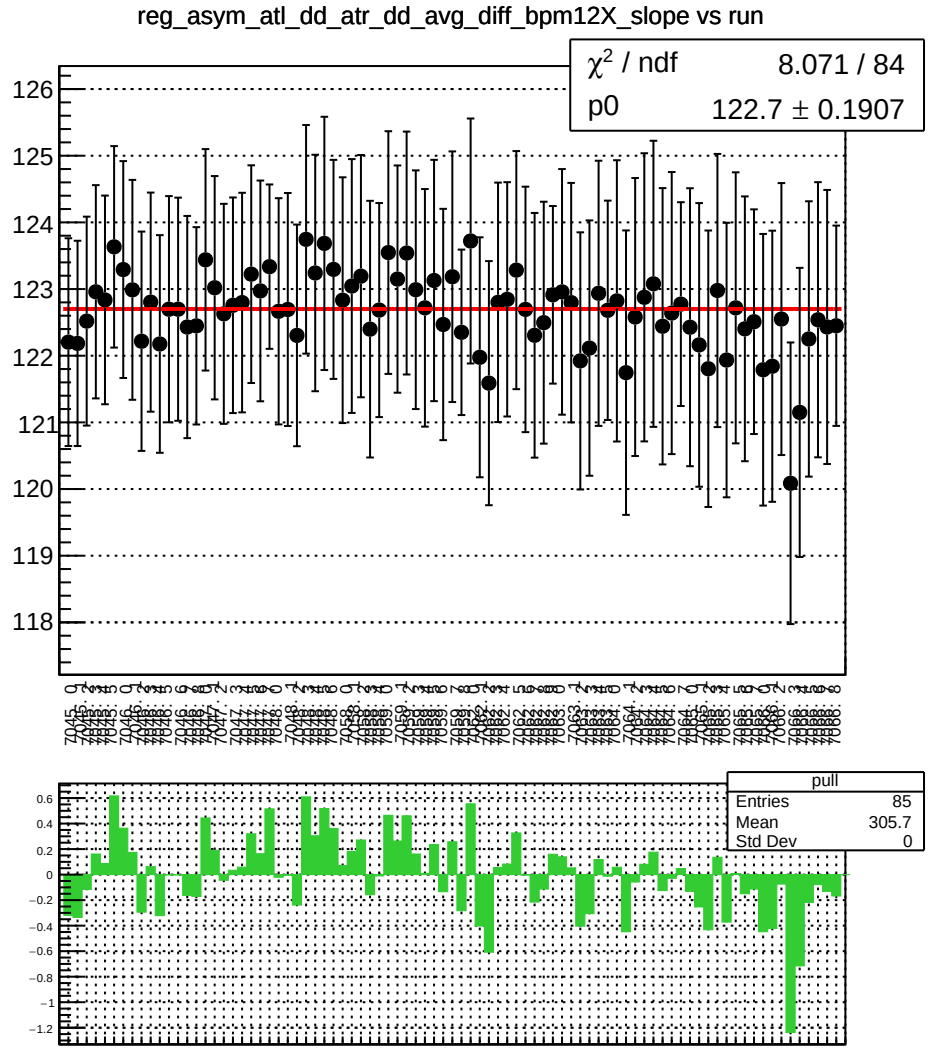

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 29.19 / 84
p0 232.3 ± 5.758
350
300
250
200
150
100
pull
Entries 85
Mean −831.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.009544
Std Dev 0.586
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

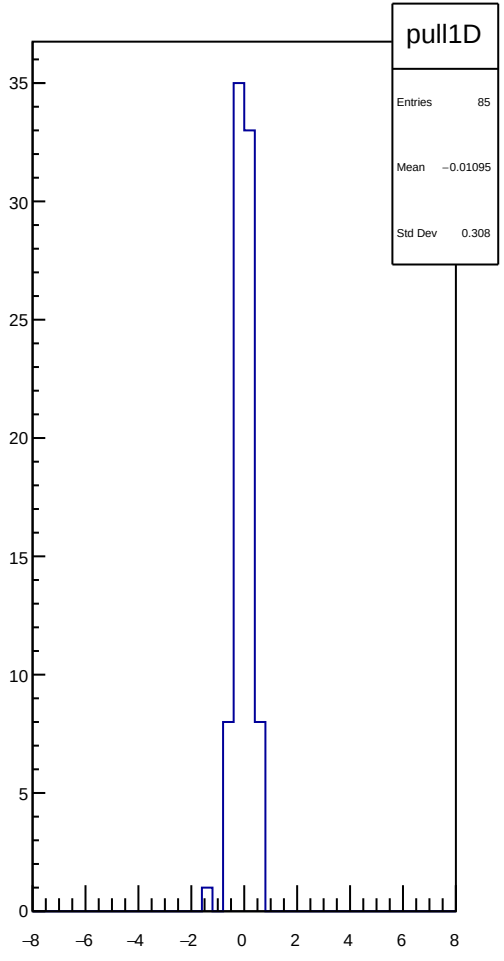

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 84
p0 16.15 ± 3.838
pull
Entries 85
Mean 683.9
Std Dev 0
pull1D
Entries 85
Mean 0.005739
Std Dev 0.36

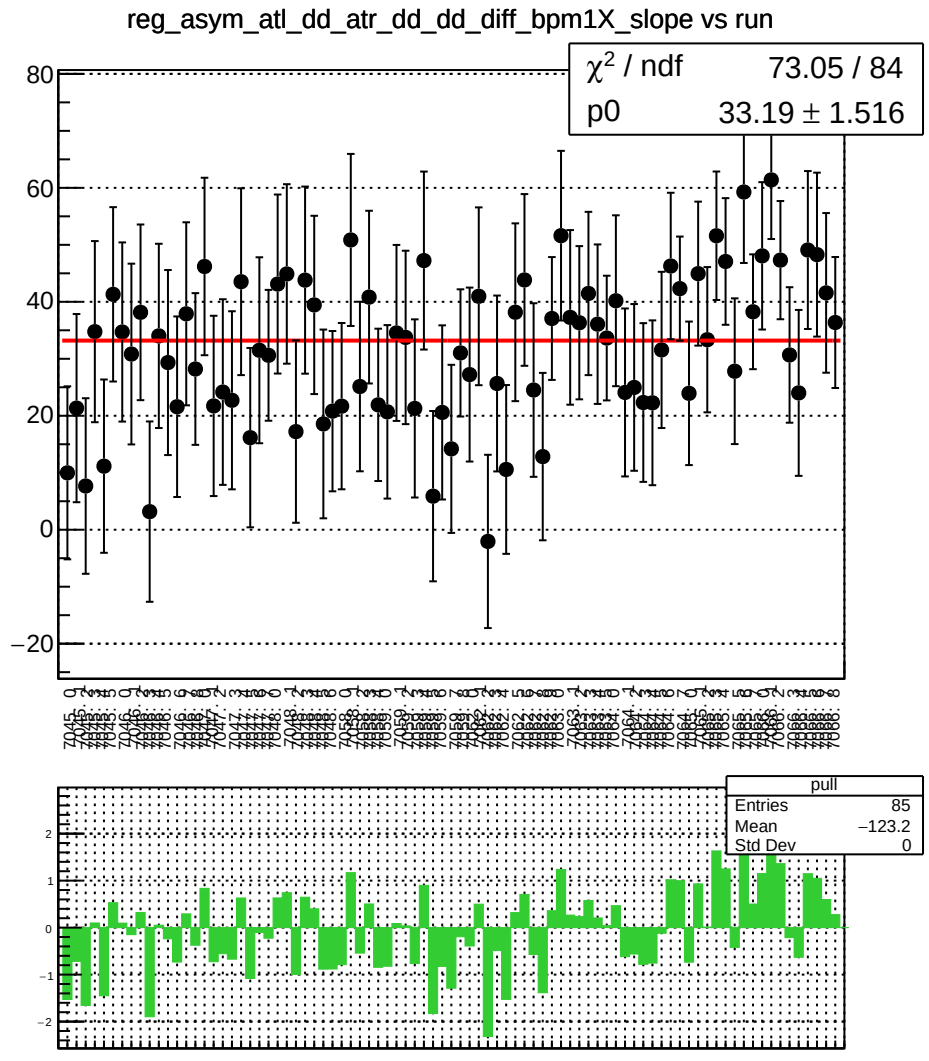

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.98 / 84
p0 −235.9 ± 5.473
pull
Entries 85
Mean −636.1
Std Dev 0

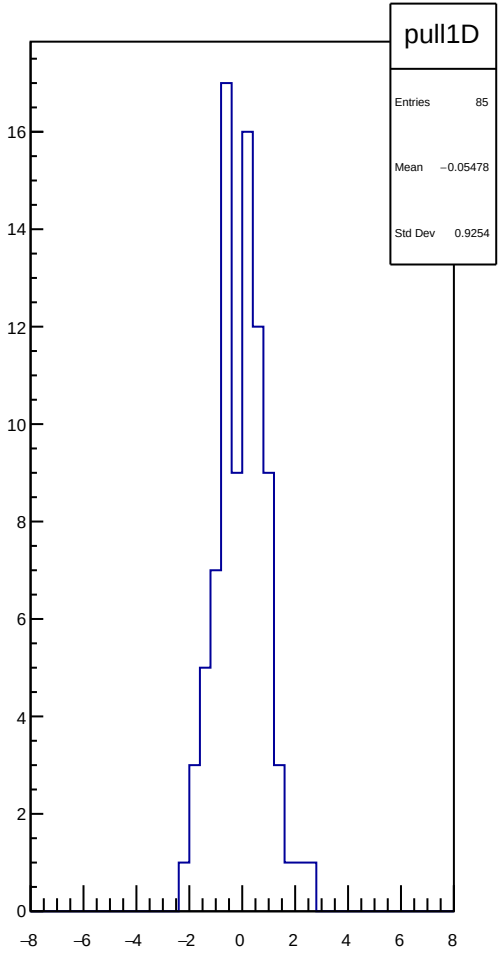

pull1D
Entries 85
Mean −0.01079
Std Dev 0.5737

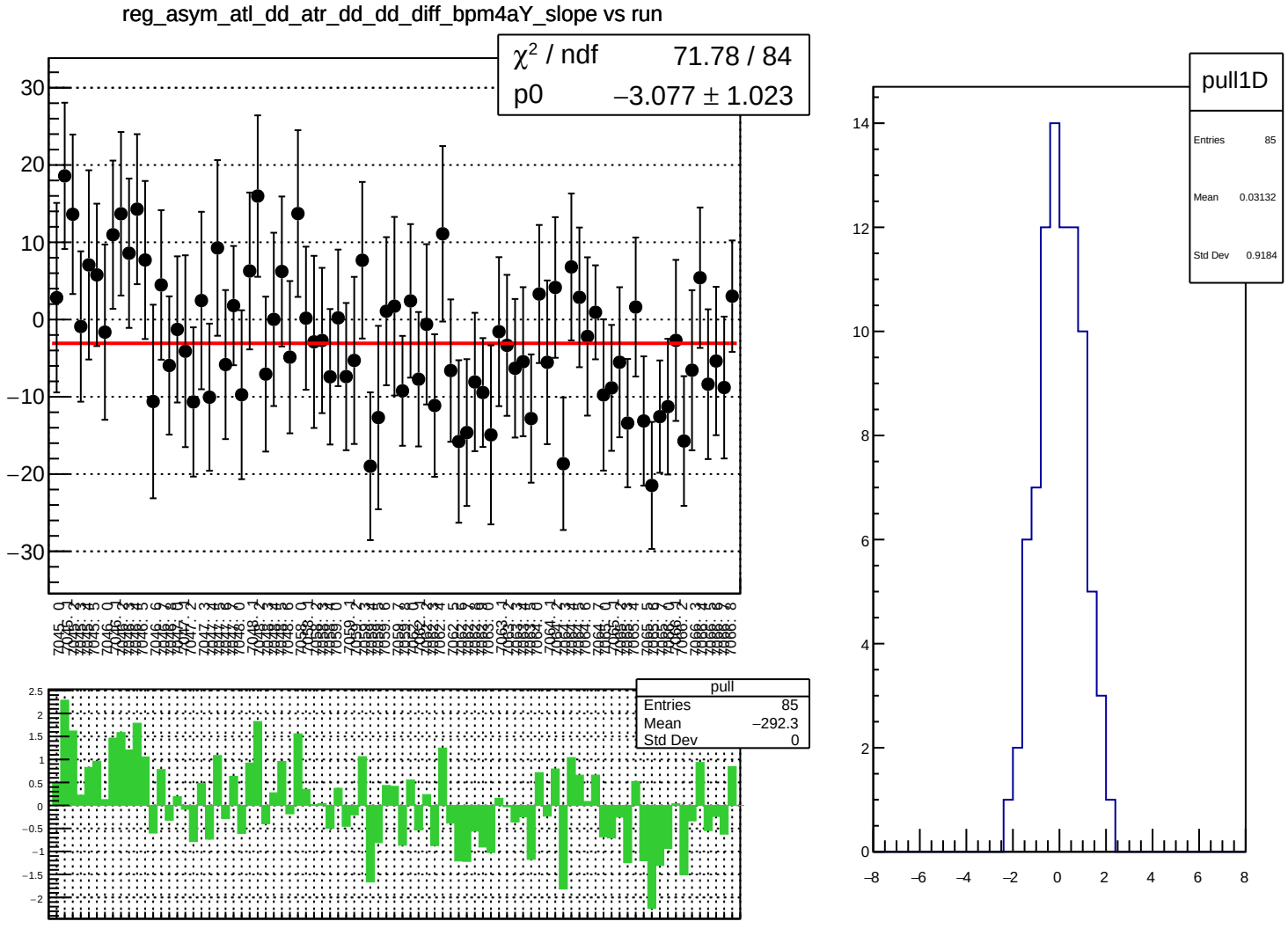

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.89 / 84
p0 −93.3 ± 4.087
pull
Entries 85
Mean 558.4
Std Dev 0
pull1D
Entries 85
Mean −0.009648
Std Dev 0.3893

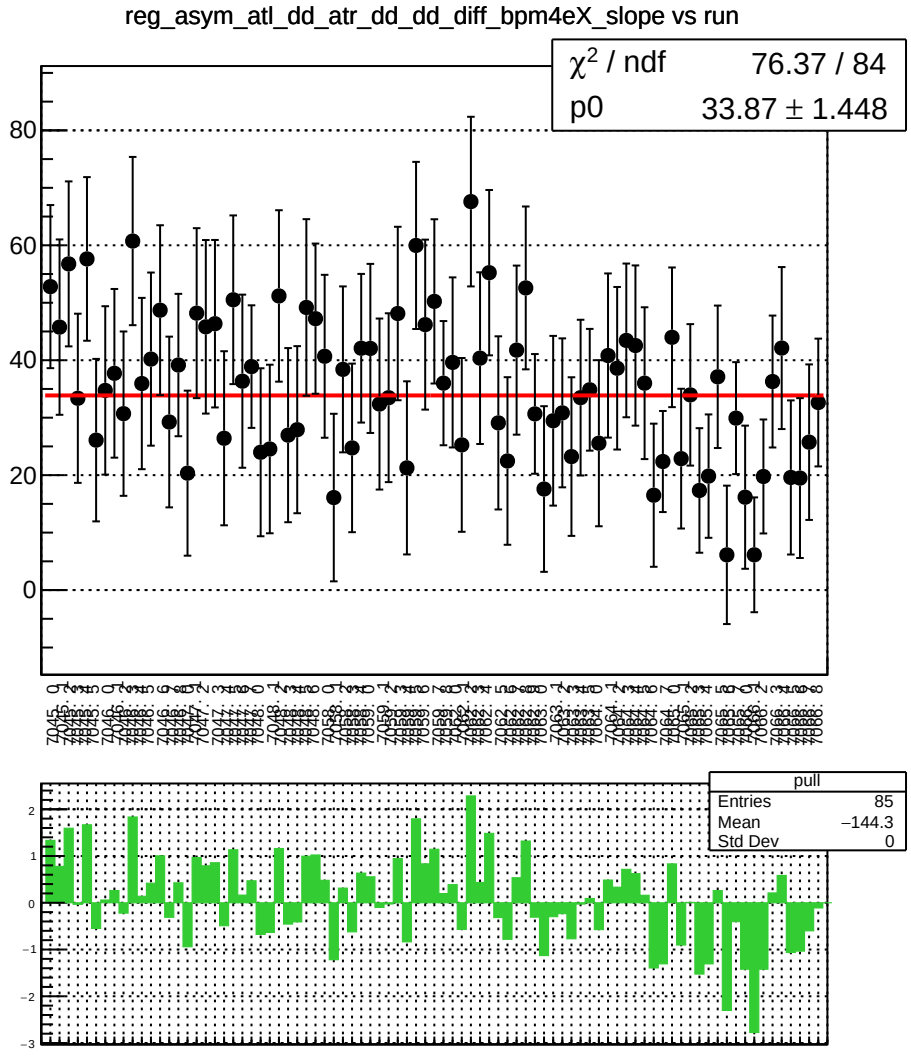

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 8.071 / 84
p0 122.7 ± 0.1907
pull
Entries 85
Mean 305.7
Std Dev 0

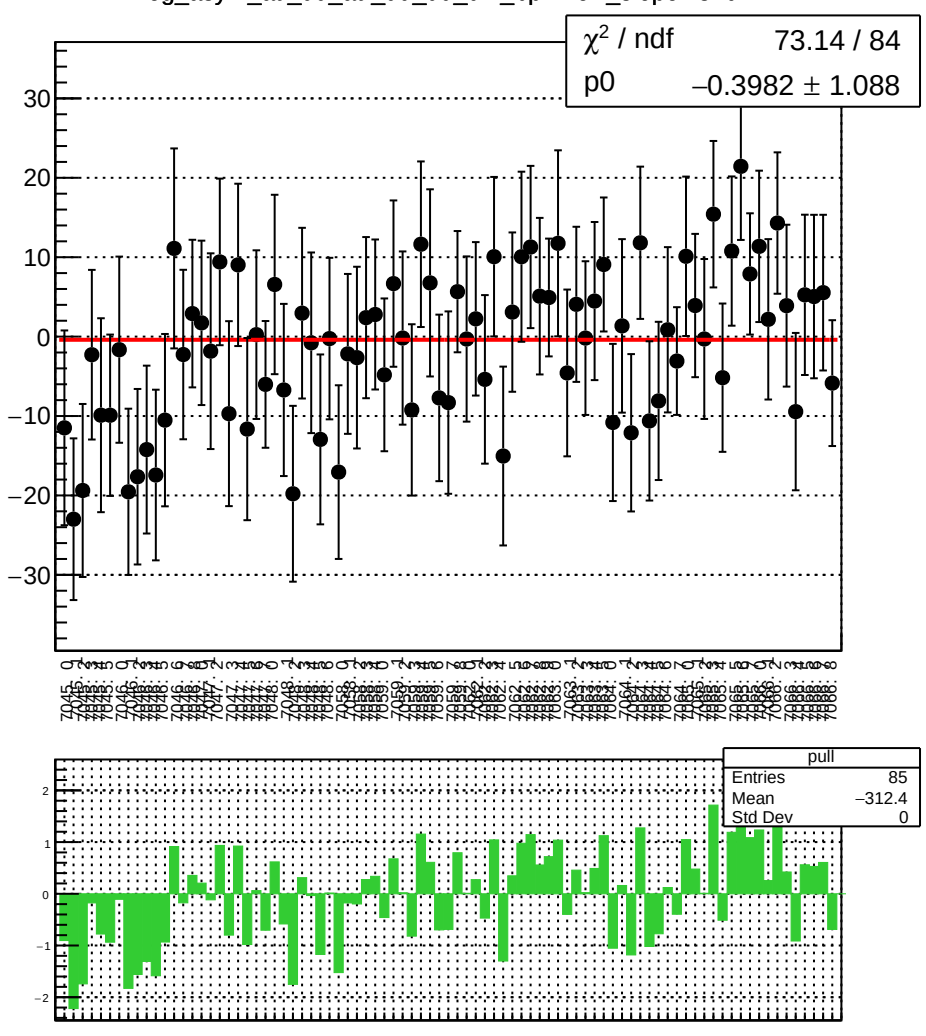

pull1D
Entries 85
Mean −0.01095
Std Dev 0.308

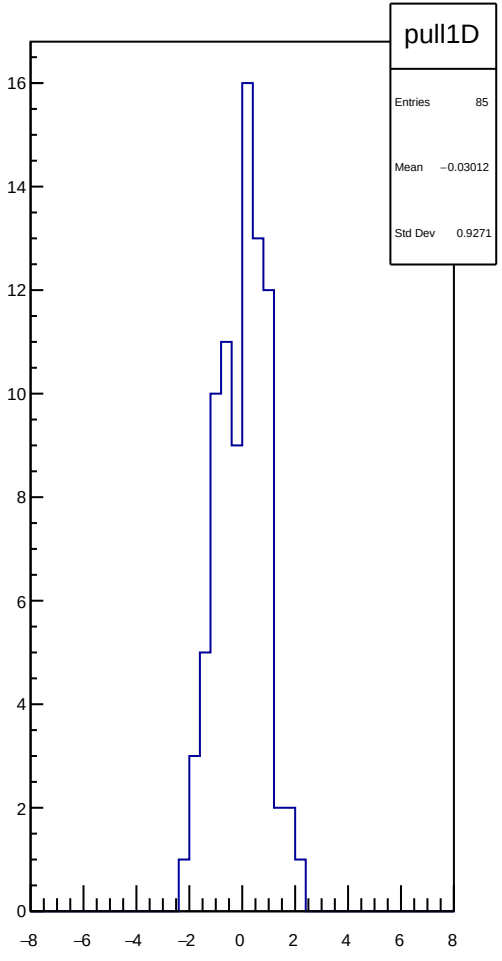

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.05 / 84
p0 33.19 ± 1.516
pull
Entries 85
Mean −123.2
Std Dev 0

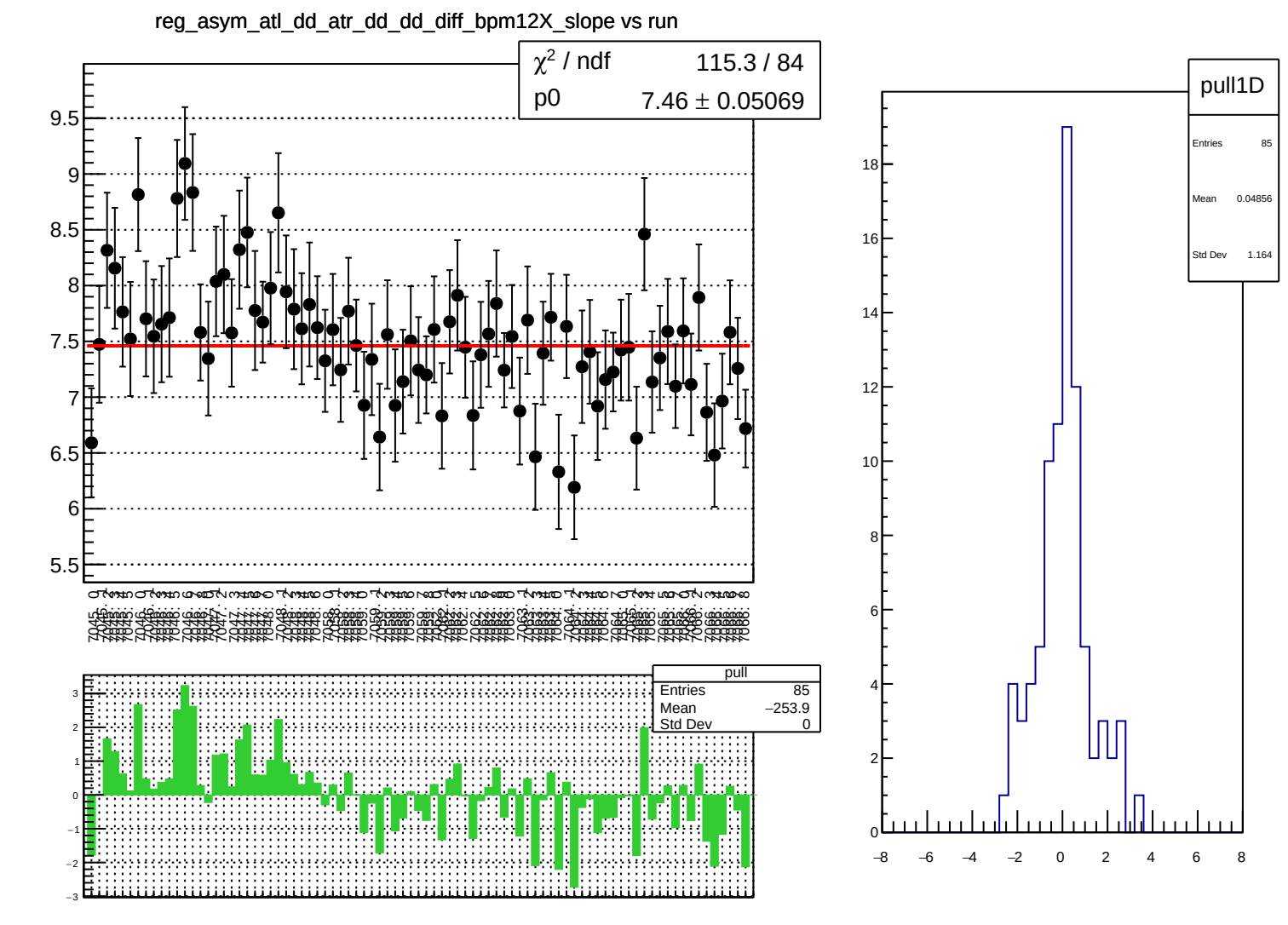

pull1D
Entries 85
Mean −0.05478
Std Dev 0.9254

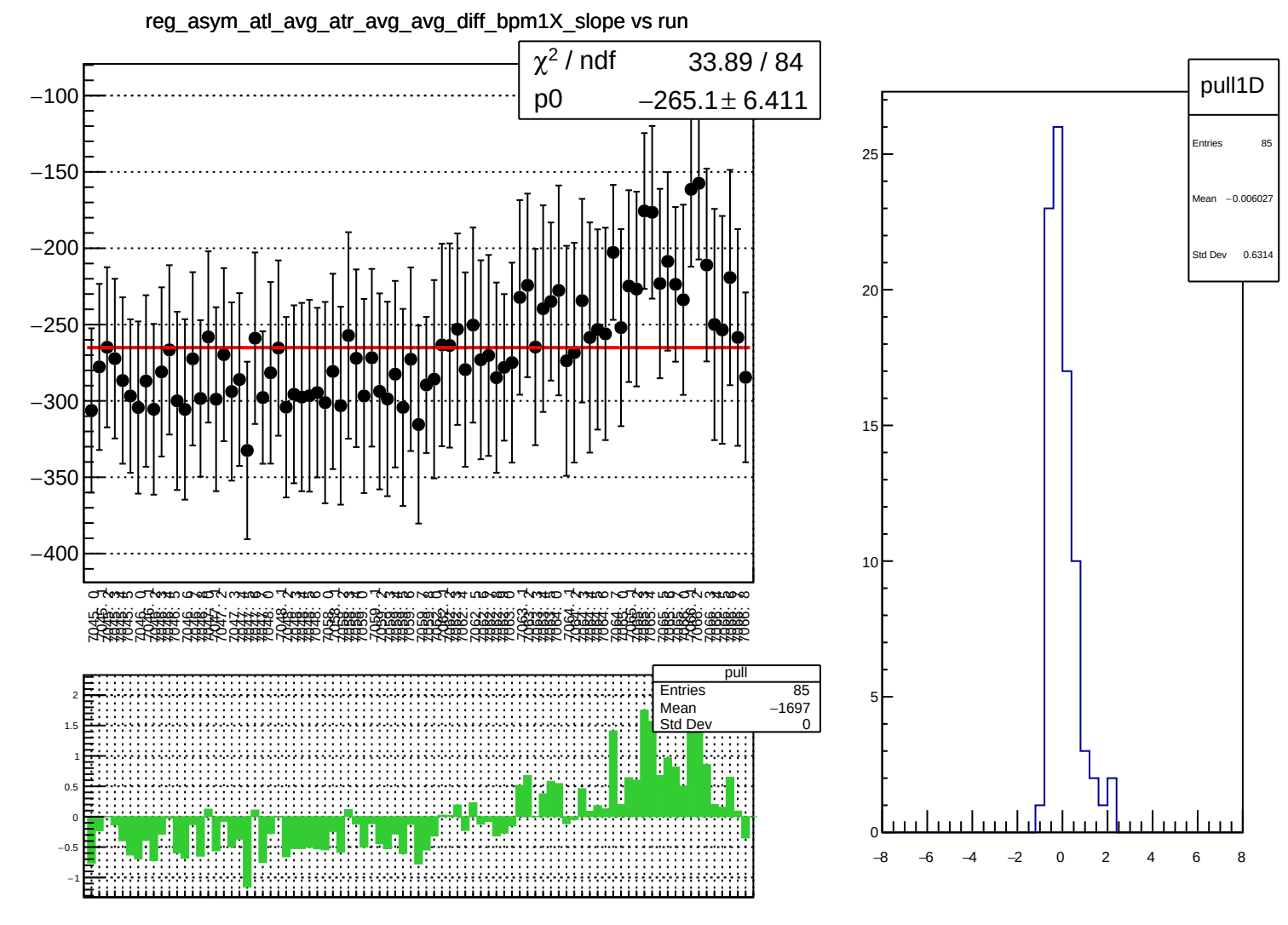

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.78 / 84
p0 −3.077 ± 1.023
pull
Entries 85
Mean −292.3
Std Dev 0
pull1D
Entries 85
Mean 0.03132
Std Dev 0.9184

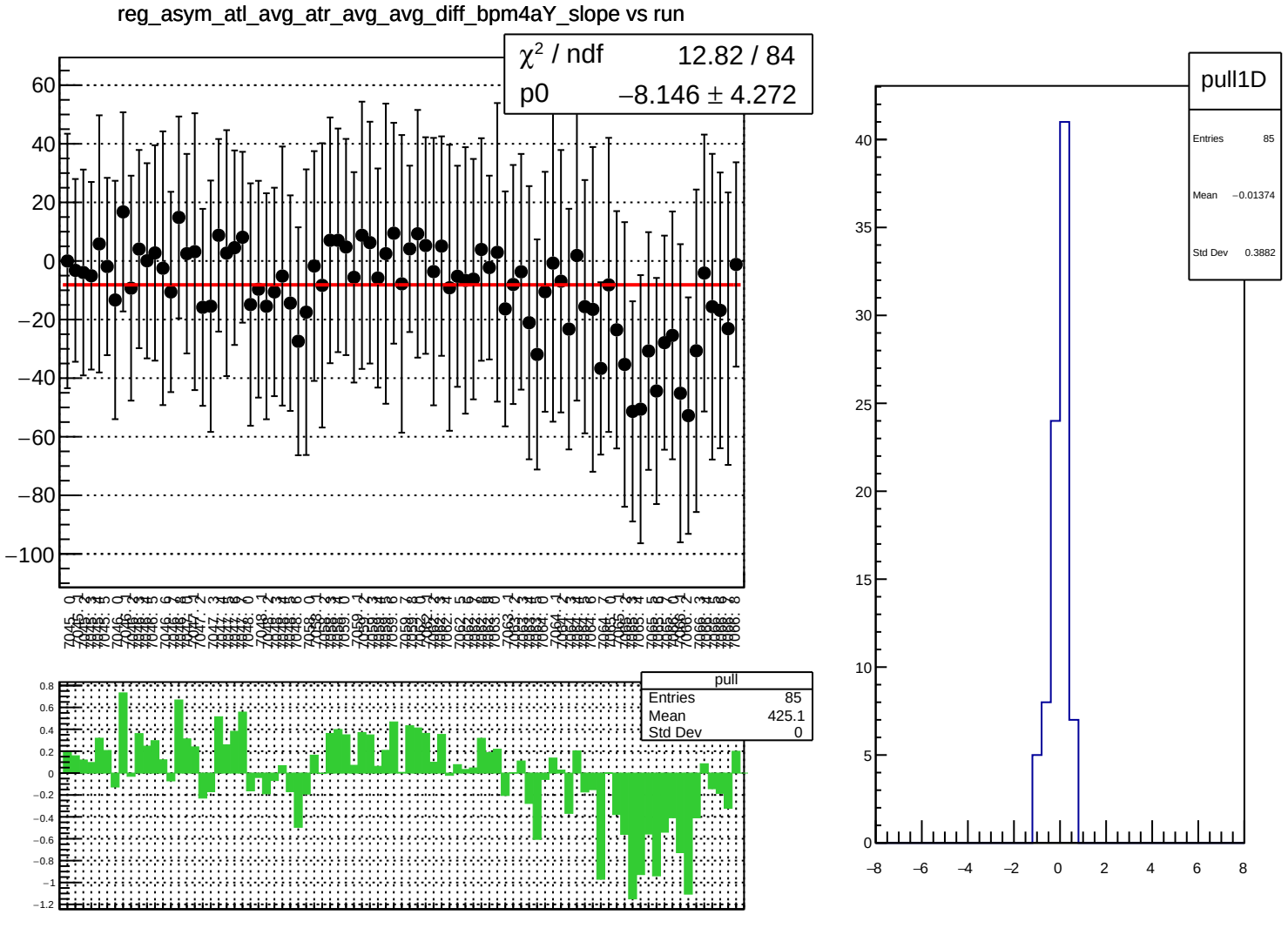

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.37 / 84
p0 33.87 ± 1.448
pull
Entries 85
Mean −144.3
Std Dev 0
pull1D
Entries 85
Mean 0.0545
Std Dev 0.9463

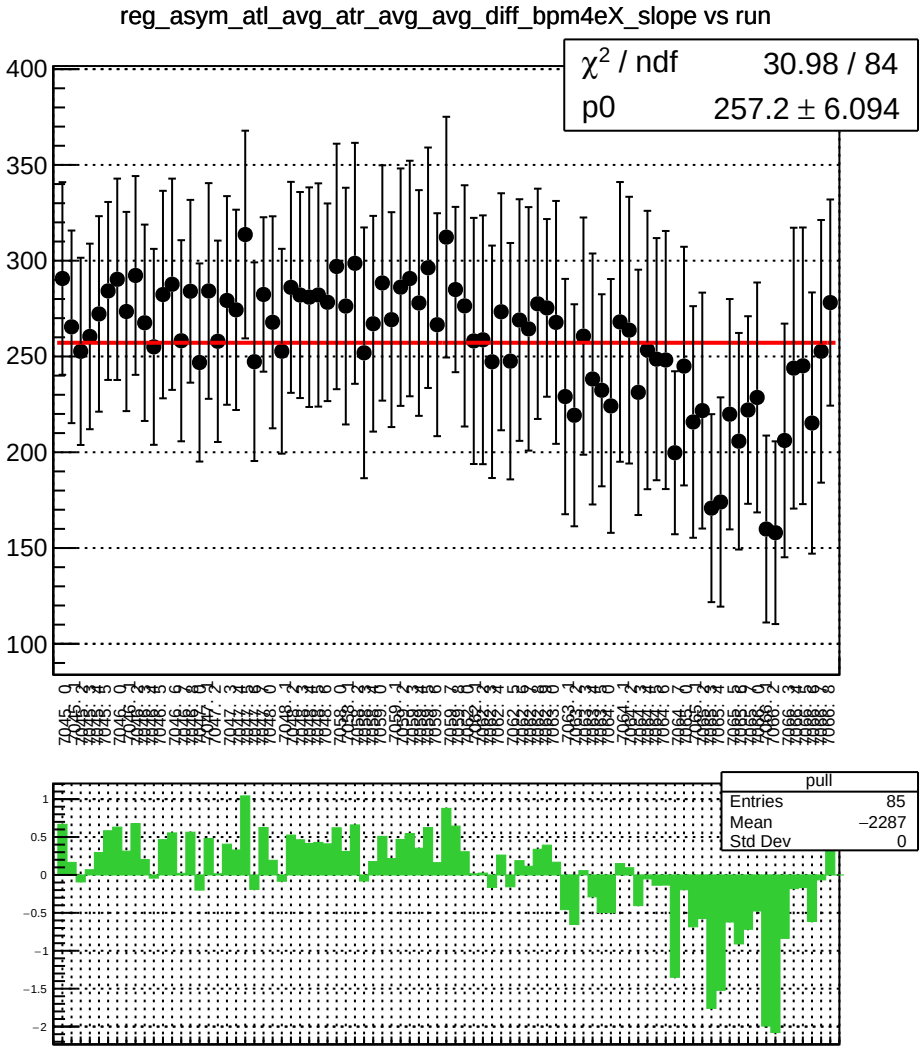

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.14 / 84
p0 −0.3982 ± 1.088
pull
Entries 85
Mean −312.4
Std Dev 0

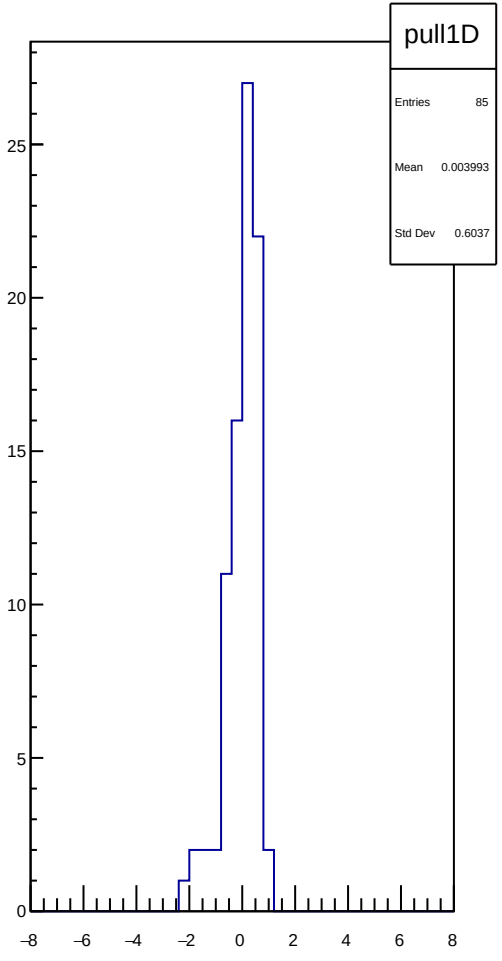

pull1D
Entries 85
Mean −0.03012
Std Dev 0.9271

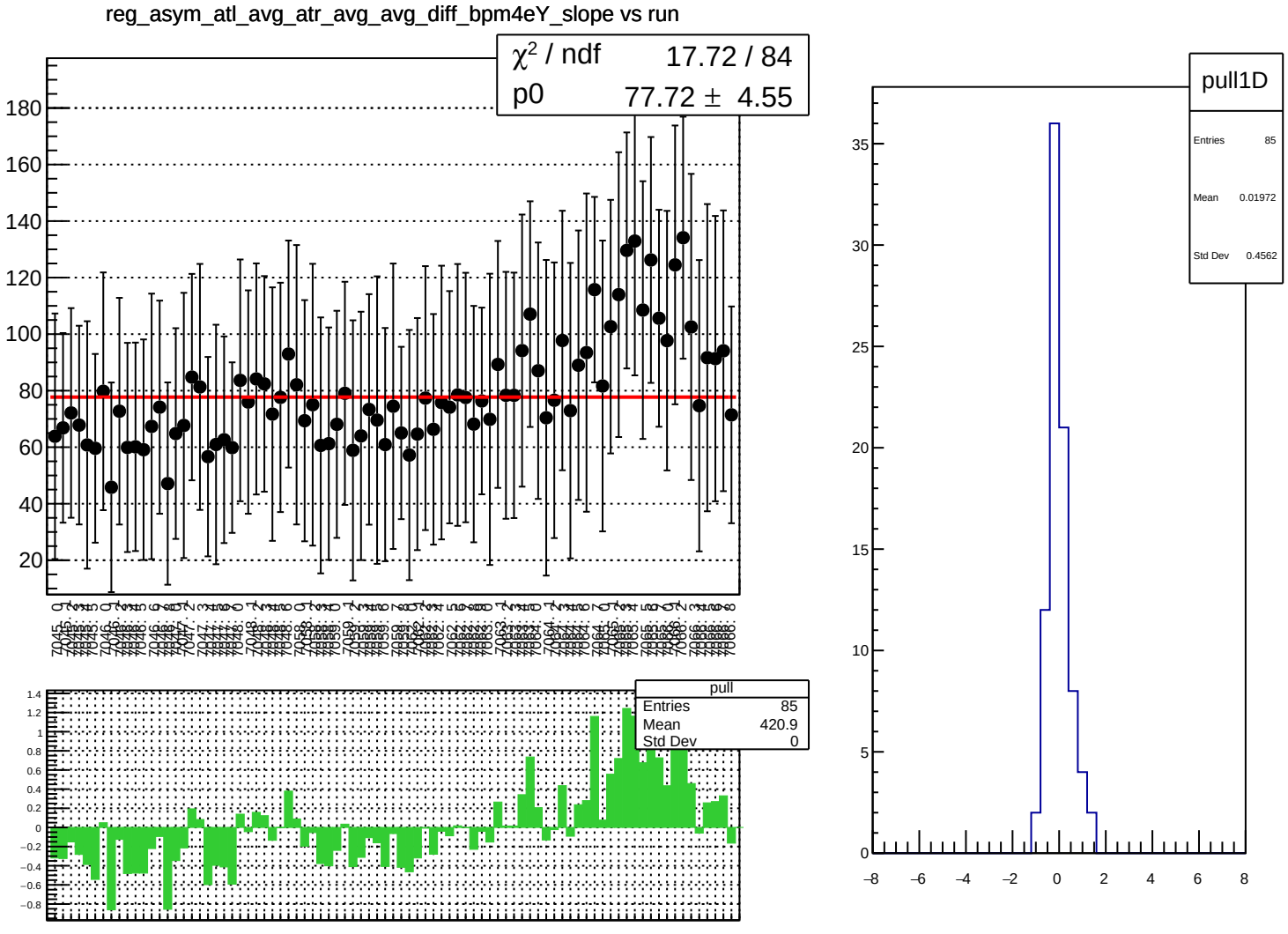

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 115.3 / 84
p0 7.46 ± 0.05069
pull
Entries 85
Mean −253.9
Std Dev 0
pull1D
Entries 85
Mean 0.04856
Std Dev 1.164

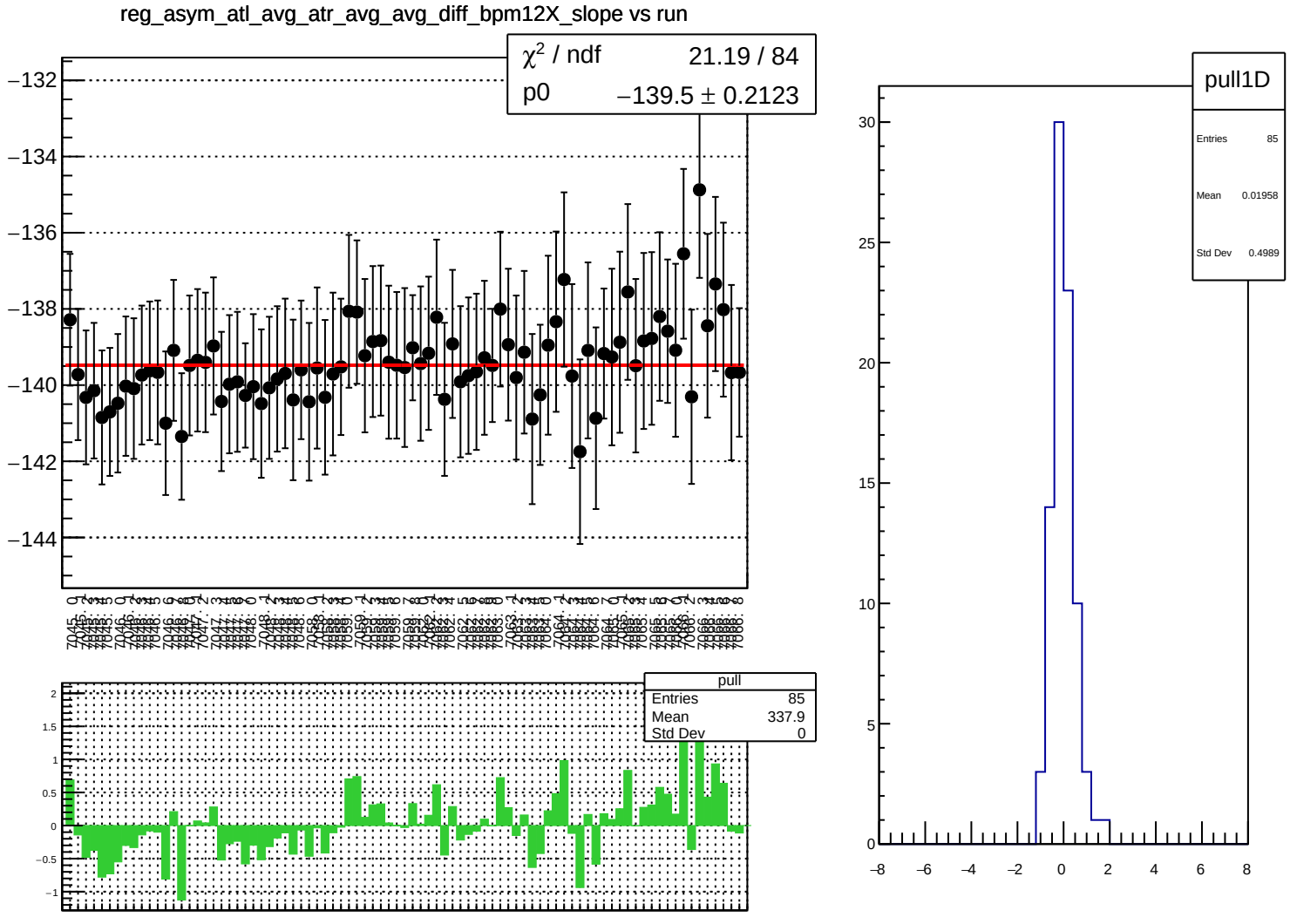

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.89 / 84
p0 −265.1 ± 6.411
pull
Entries 85
Mean −1697
Std Dev 0
pull1D
Entries 85
Mean −0.006027
Std Dev 0.6314

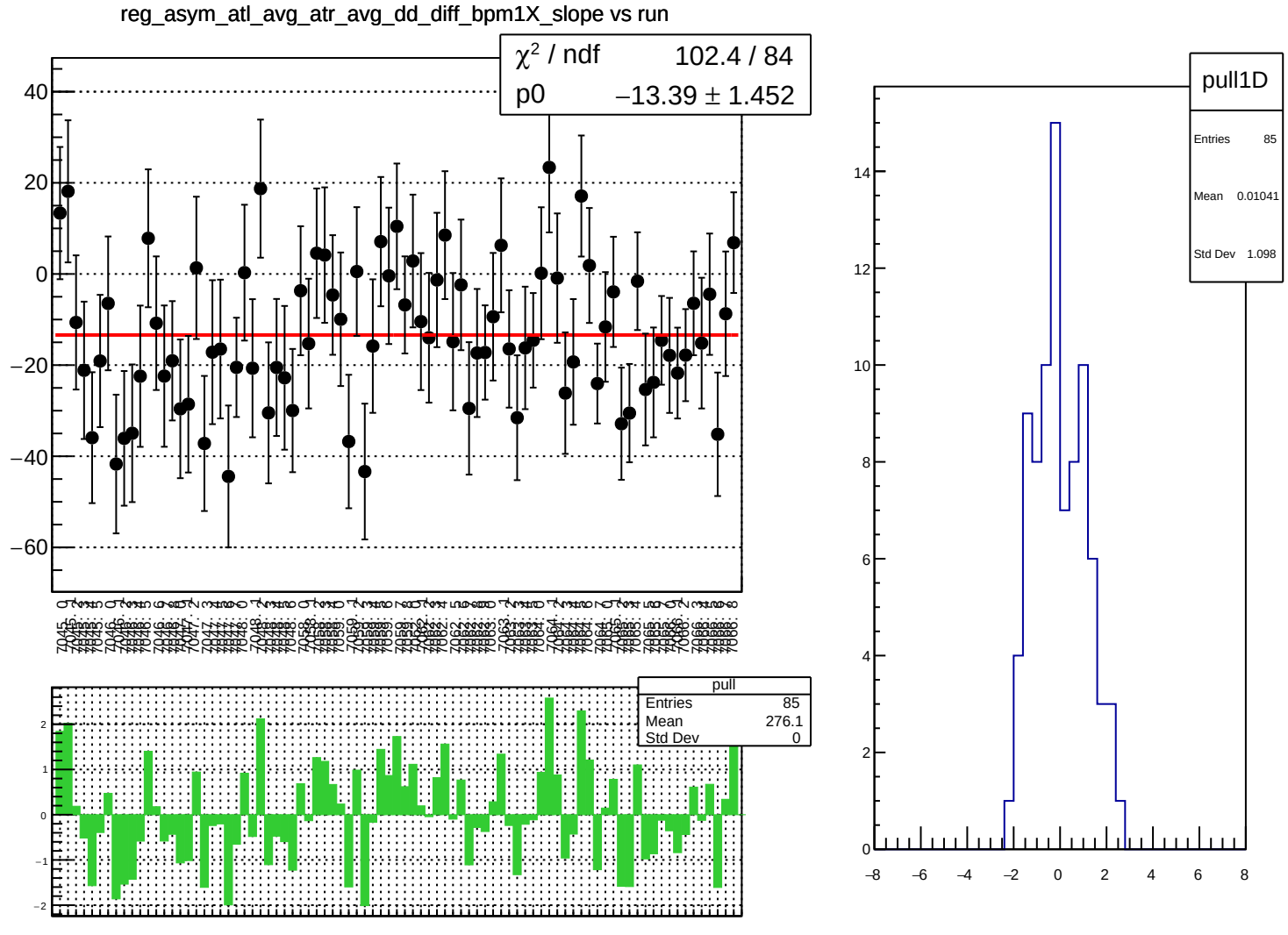

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.82 / 84
p0 −8.146 ± 4.272
pull
Entries 85
Mean 425.1
Std Dev 0
pull1D
Entries 85
Mean −0.01374
Std Dev 0.3882

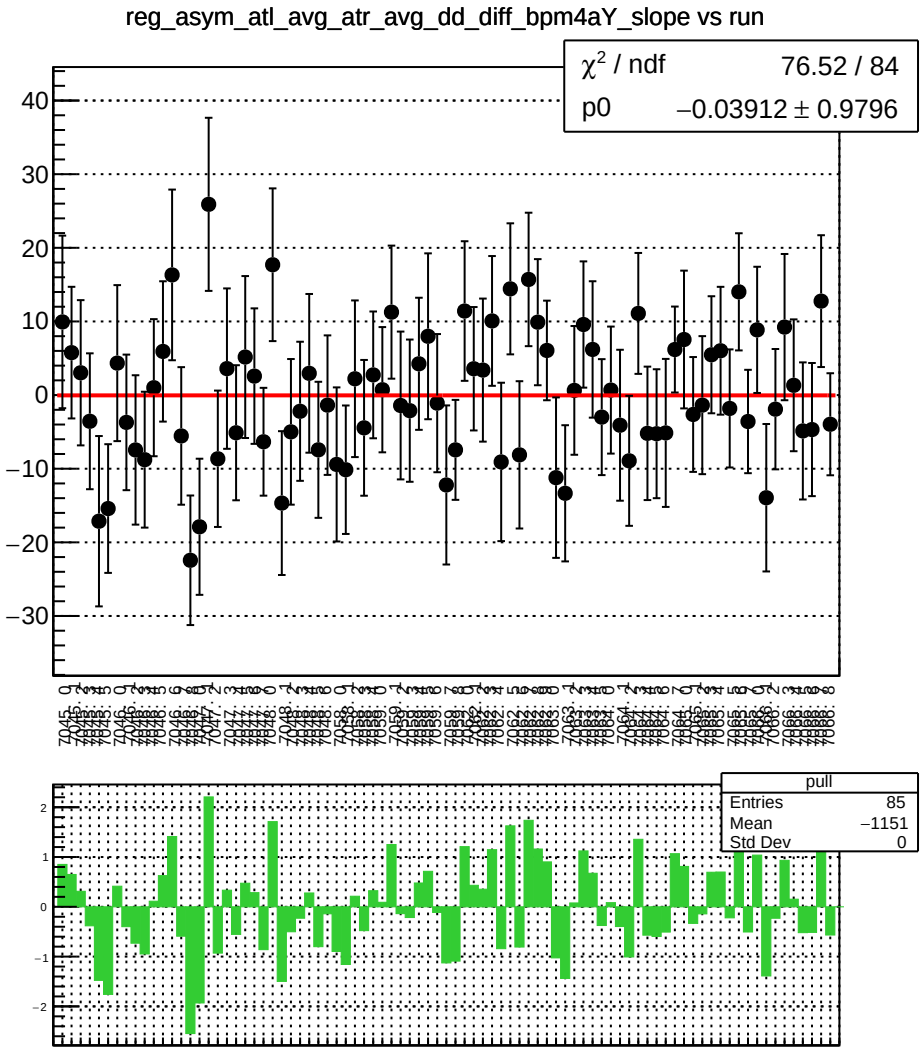

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.98 / 84
p0 257.2 ± 6.094
pull
Entries 85
Mean −2287
Std Dev 0

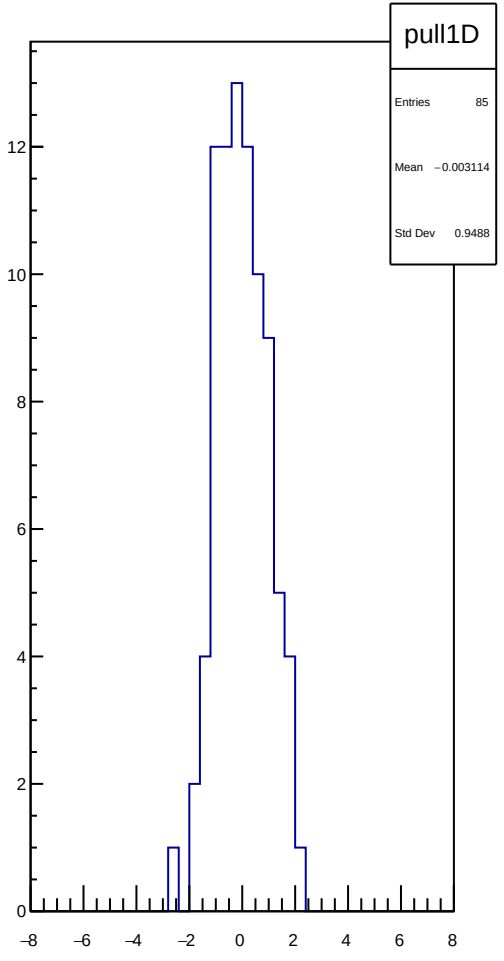

pull1D
Entries 85
Mean 0.003993
Std Dev 0.6037

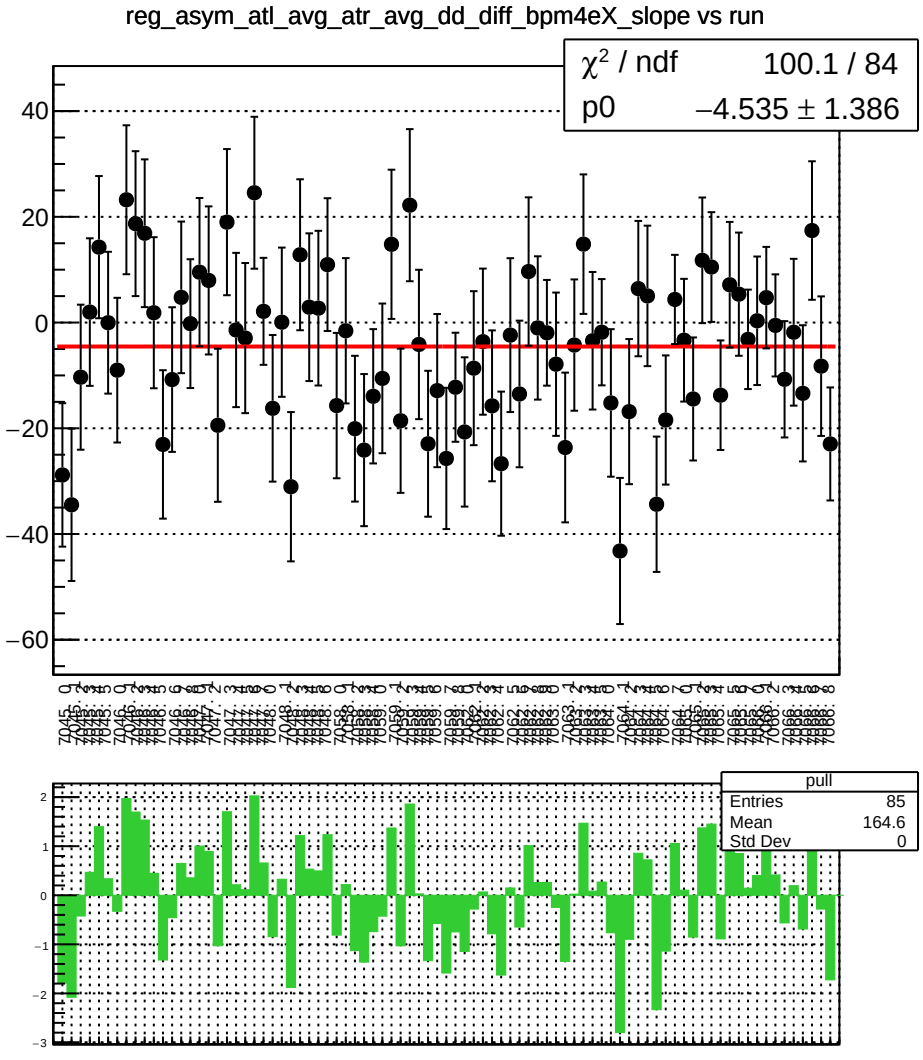

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.72 / 84
p0 77.72 ± 4.55
pull
Entries 85
Mean 420.9
Std Dev 0
pull1D
Entries 85
Mean 0.01972
Std Dev 0.4562

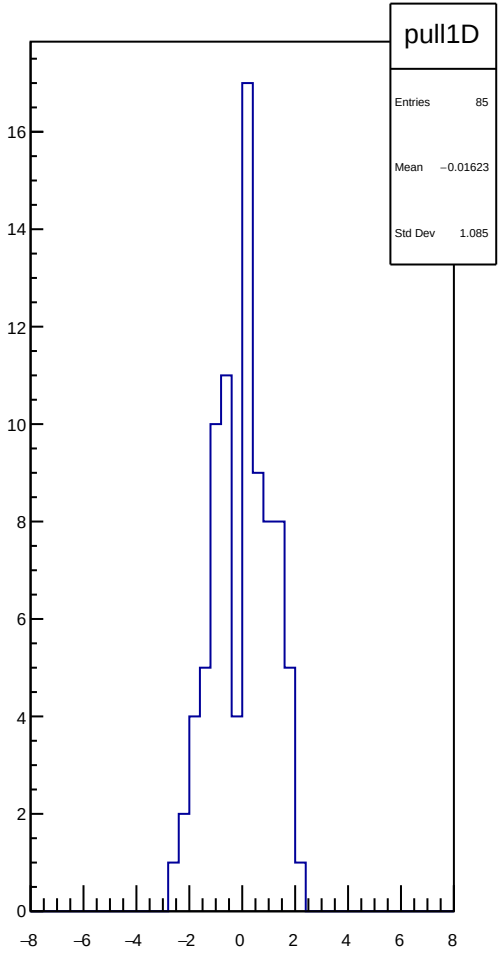

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 21.19 / 84
p0 −139.5 ± 0.2123
−132
−134
−136
−138
−140
−142
−144
pull
Entries 85
Mean 337.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean 0.01958
Std Dev 0.4989
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

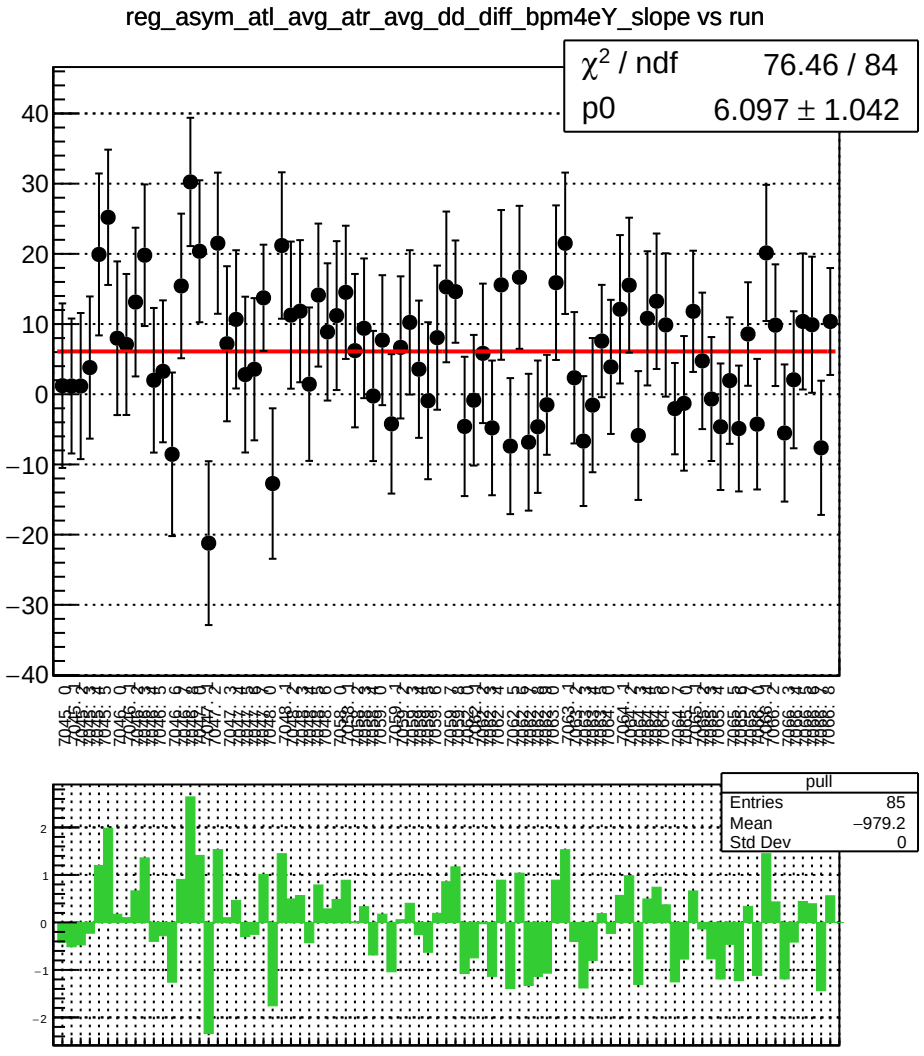

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 102.4 / 84
p0 −13.39 ± 1.452
pull
Entries 85
Mean 276.1
Std Dev 0
pull1D
Entries 85
Mean 0.01041
Std Dev 1.098

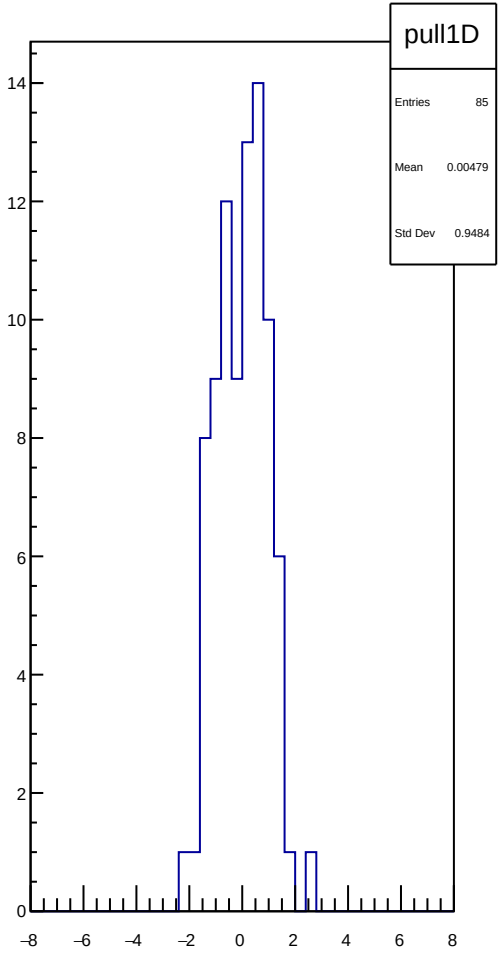

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.52 / 84
p0 −0.03912 ± 0.9796
pull
Entries 85
Mean −1151
Std Dev 0

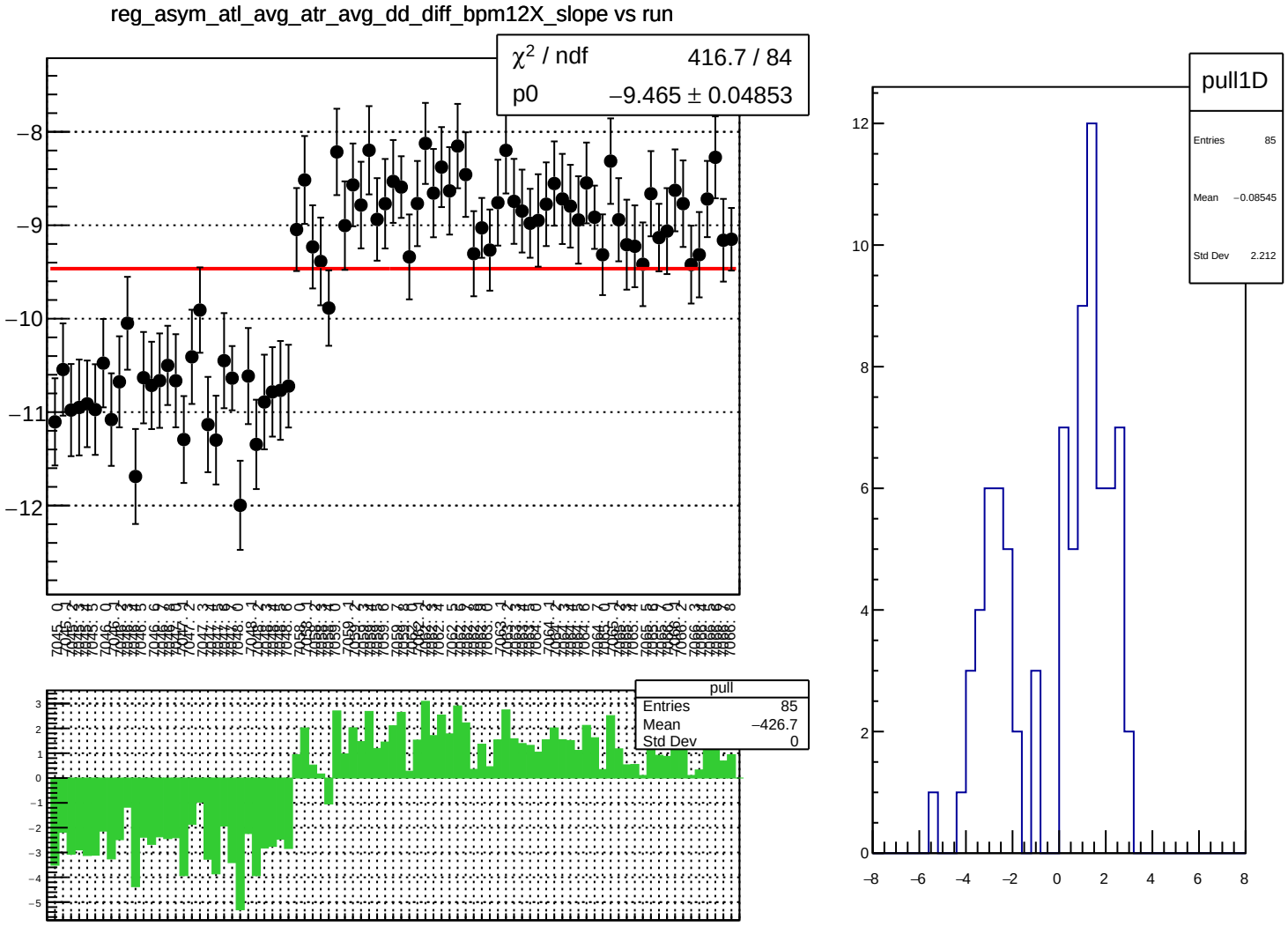

pull1D
Entries 85
Mean −0.003114
Std Dev 0.9488

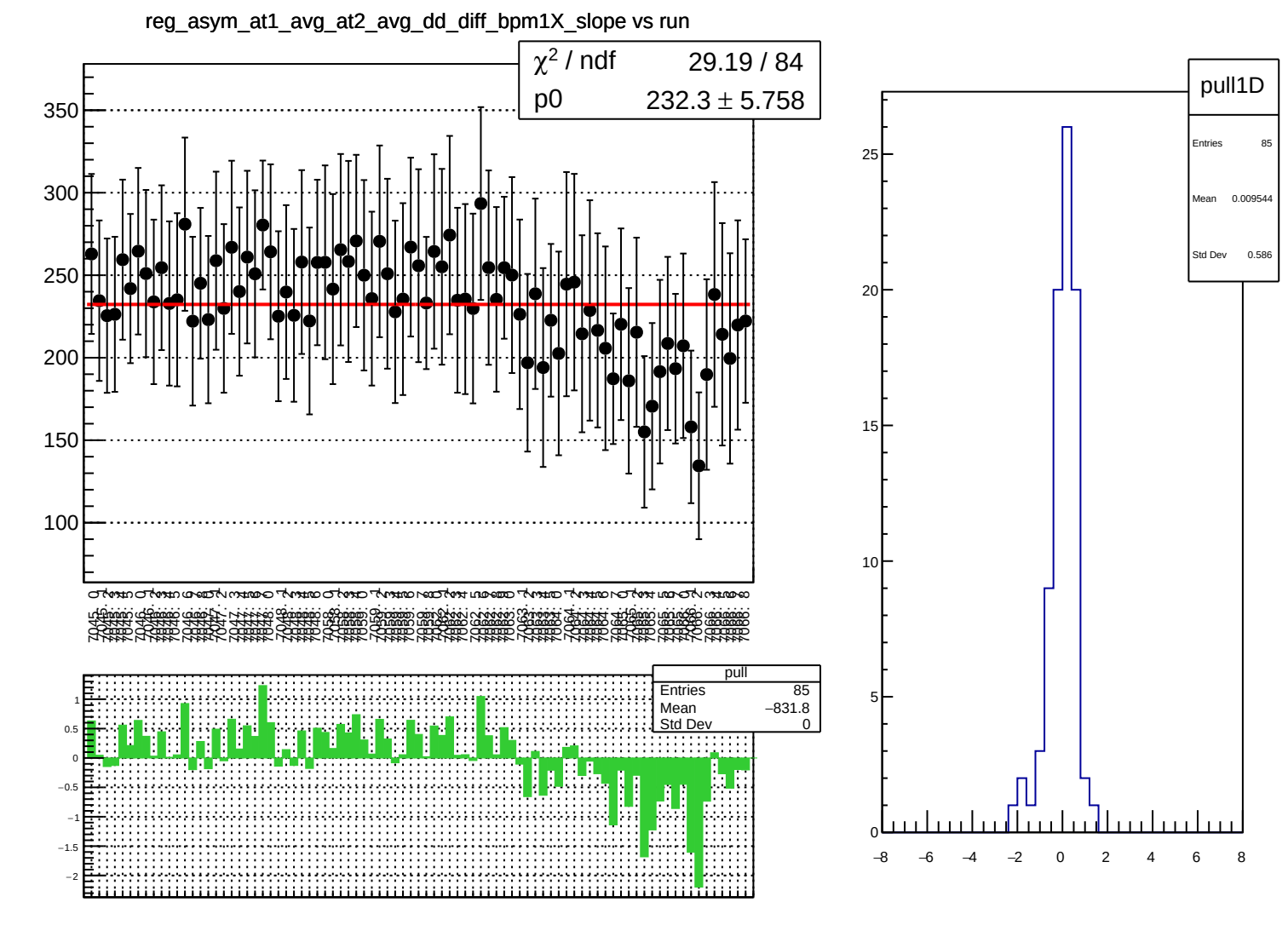

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.1 / 84
p0 −4.535 ± 1.386
pull
Entries 85
Mean 164.6
Std Dev 0

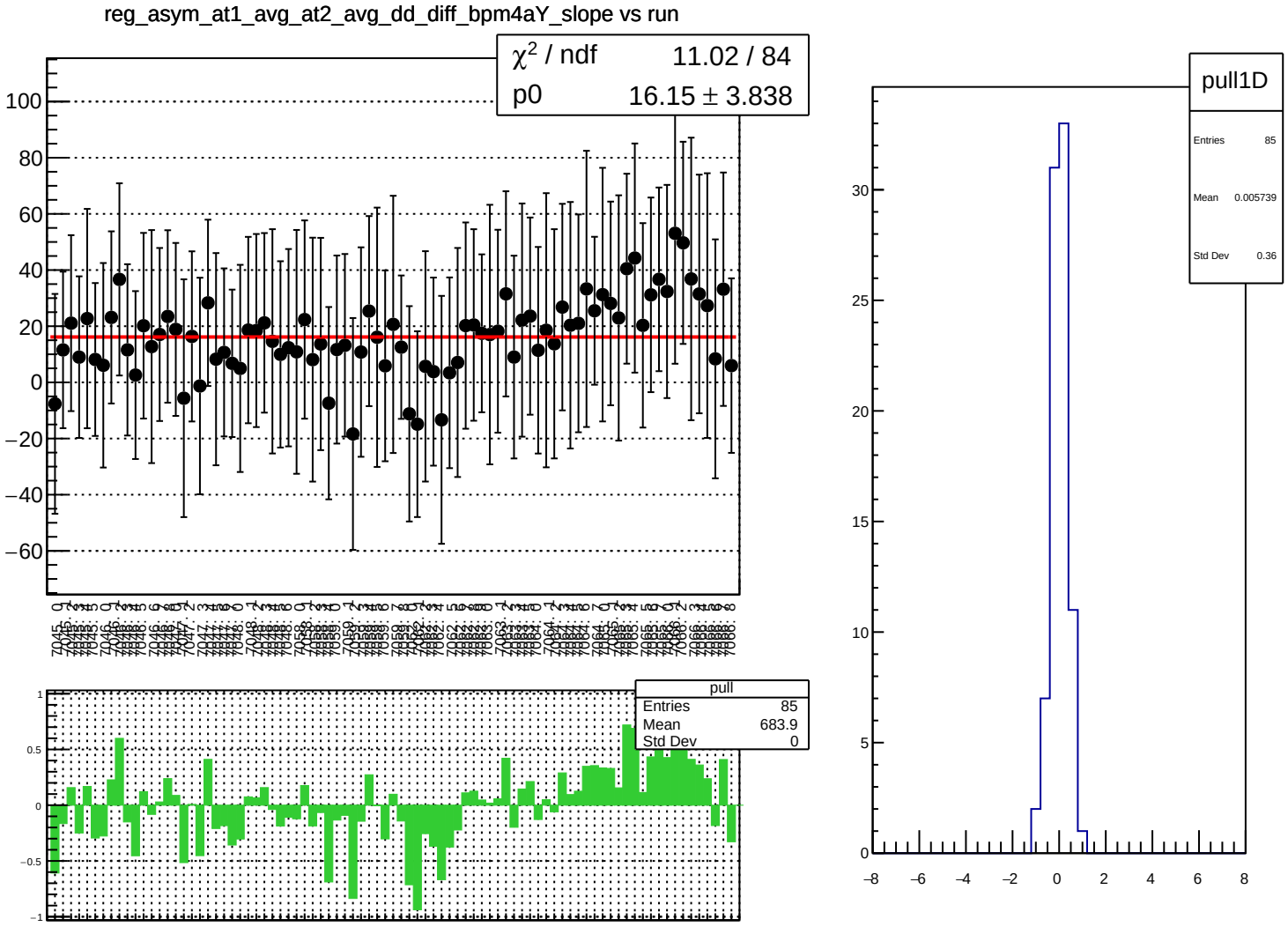

pull1D
Entries 85
Mean −0.01623
Std Dev 1.085

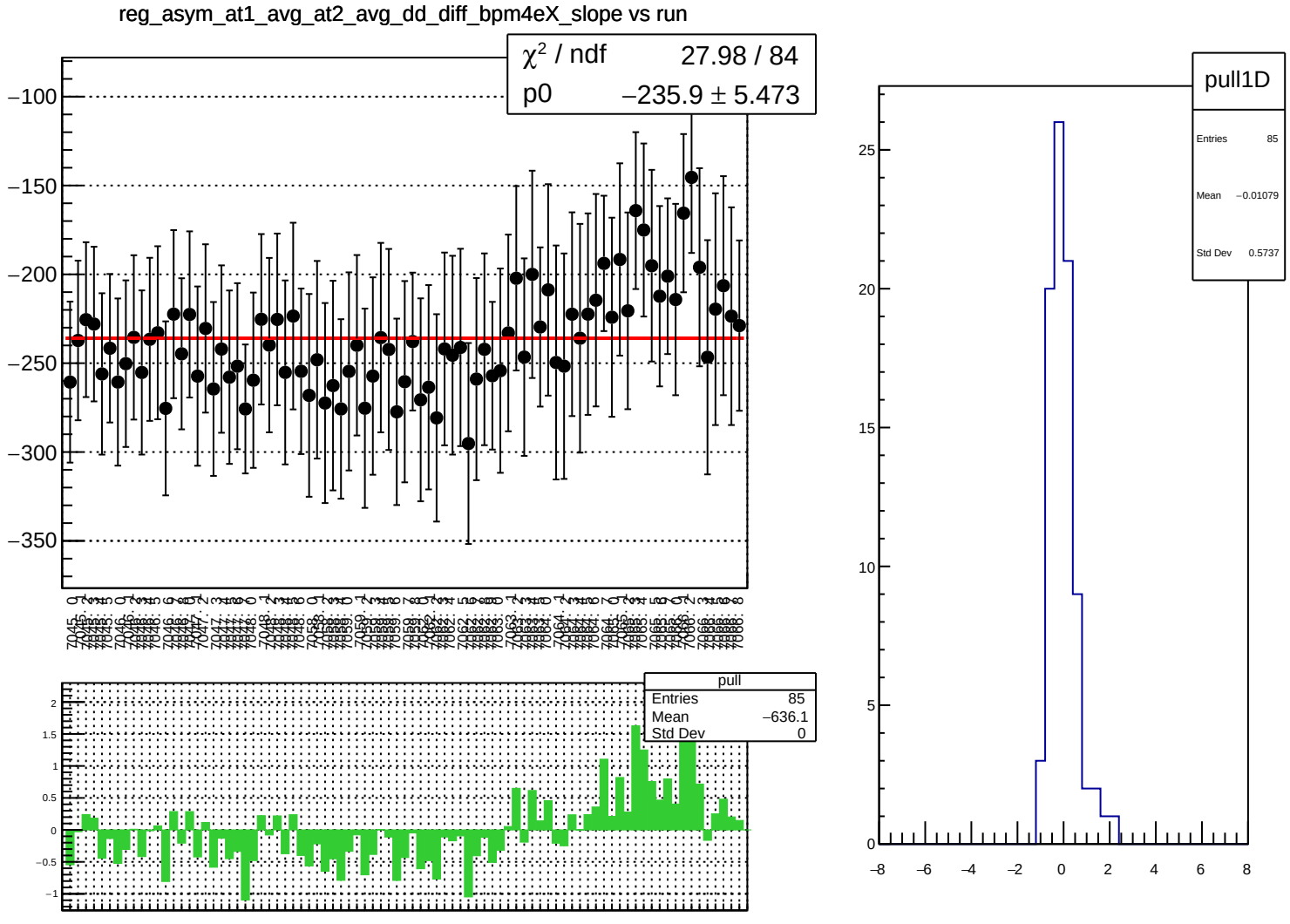

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.46 / 84
p0 6.097 ± 1.042
pull
Entries 85
Mean −979.2
Std Dev 0

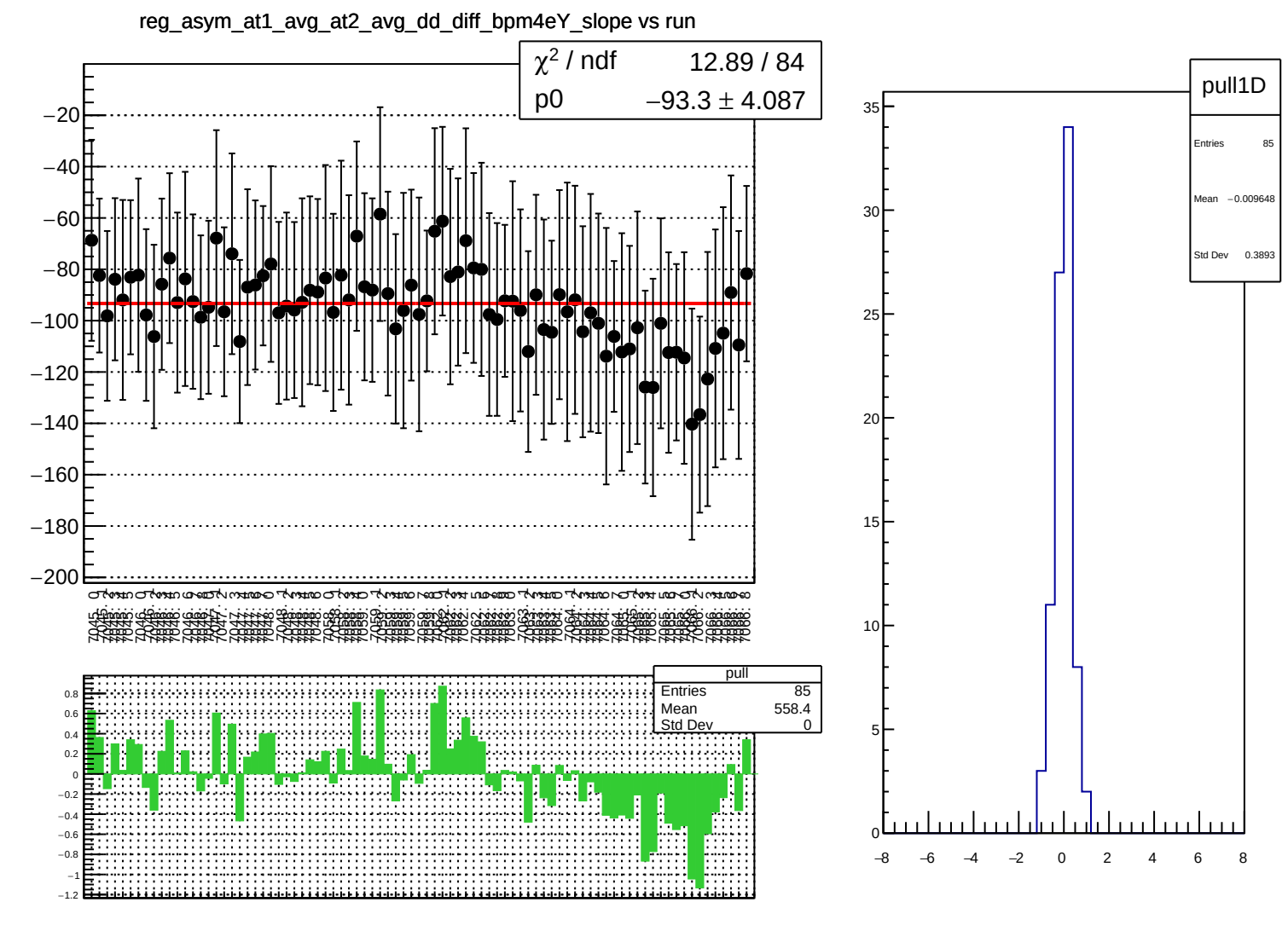

pull1D
Entries 85
Mean 0.00479
Std Dev 0.9484

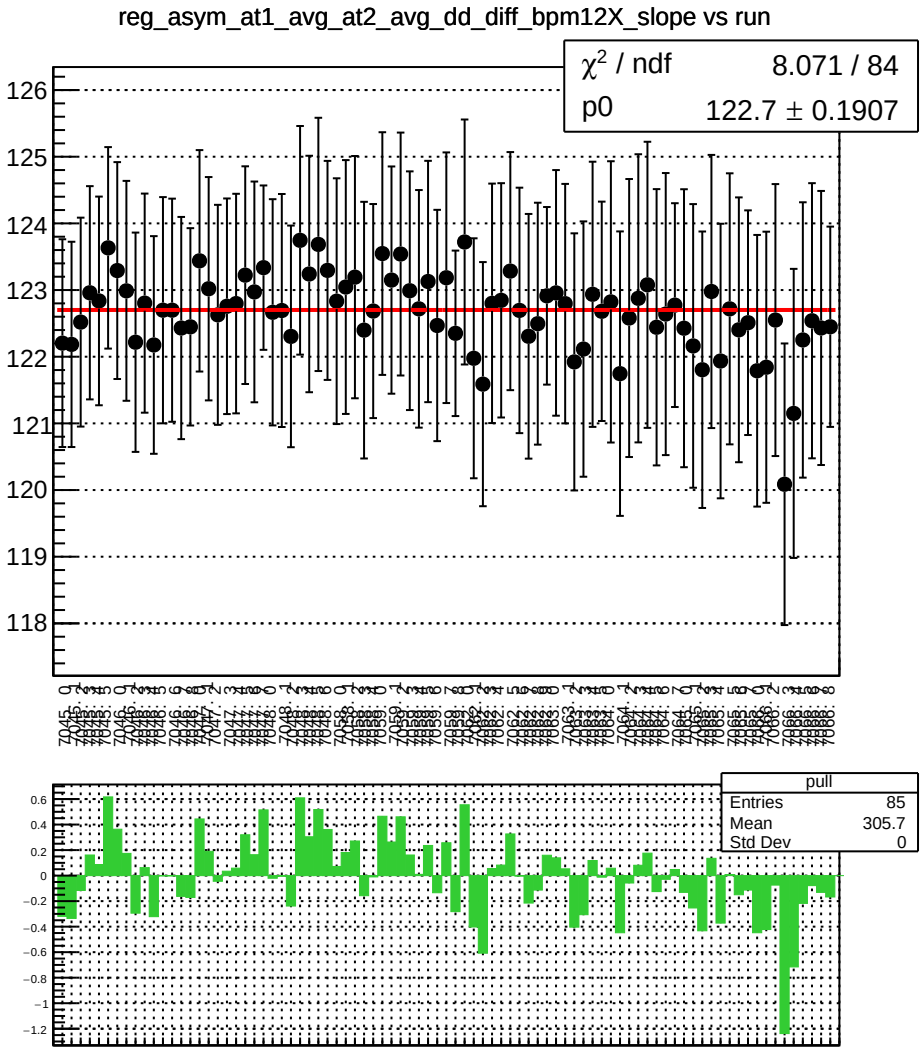

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 416.7 / 84
p0 −9.465 ± 0.04853
pull
Entries 85
Mean −426.7
Std Dev 0
pull1D
Entries 85
Mean −0.08545
Std Dev 2.212

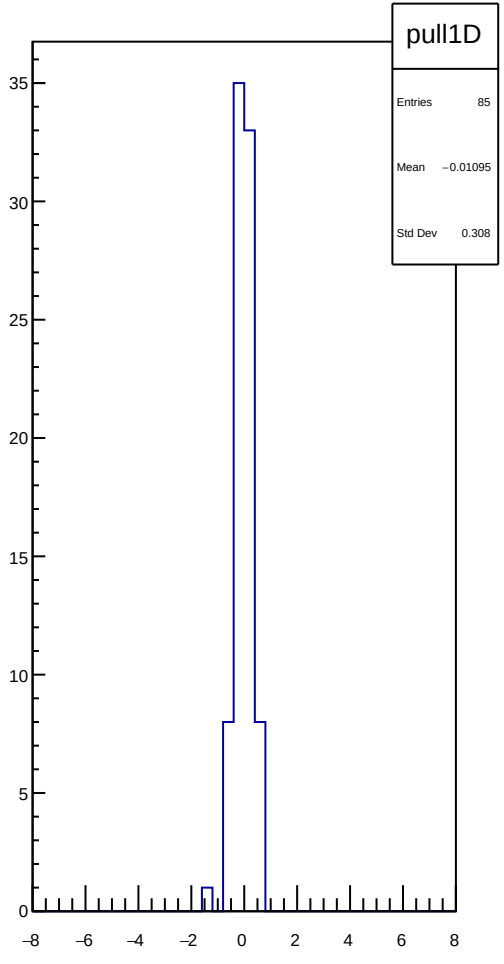

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 29.19 / 84
p0 232.3 ± 5.758
350
300
250
200
150
100
pull
Entries 85
Mean −831.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.009544
Std Dev 0.586
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

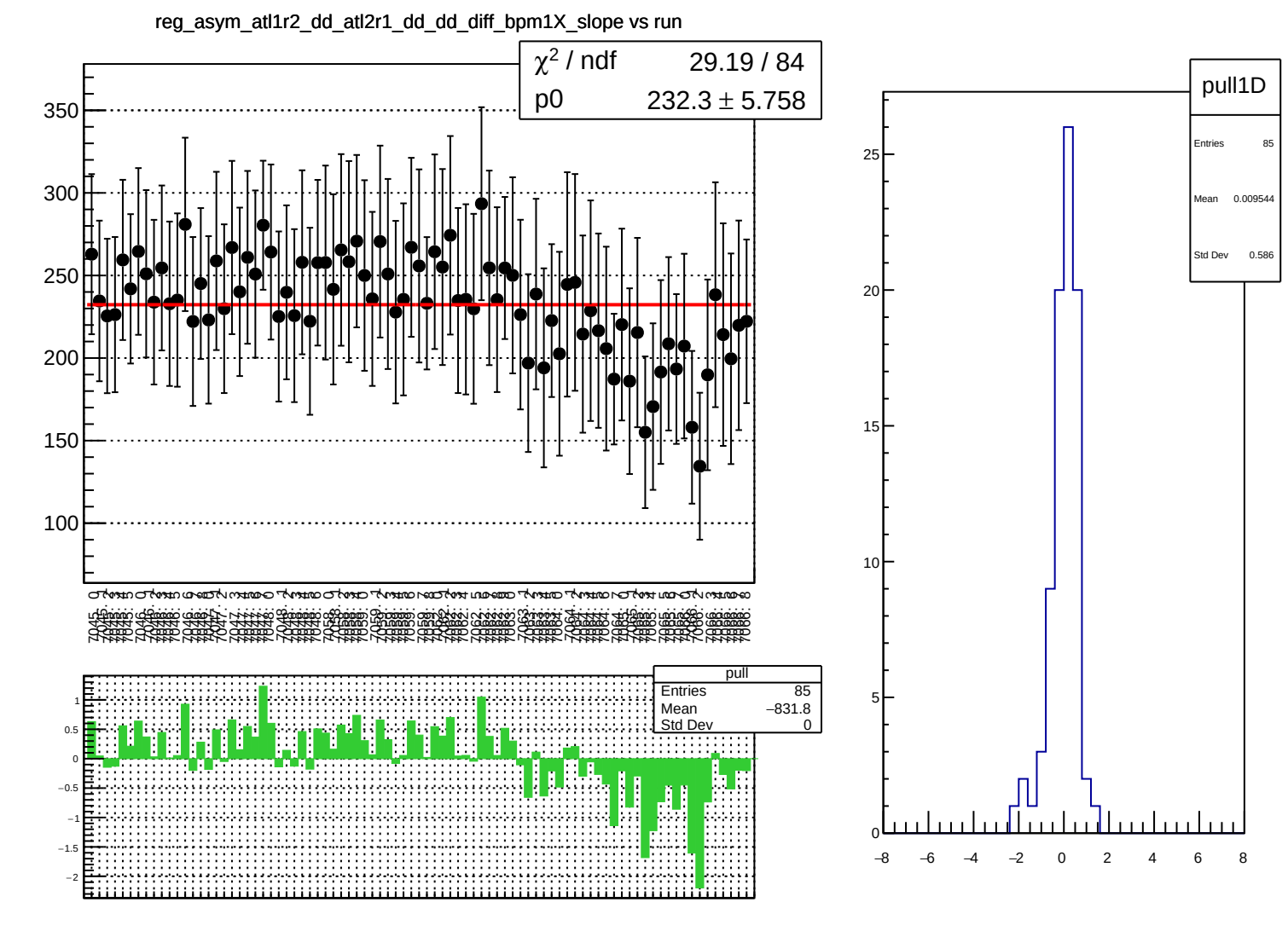

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 84
p0 16.15 ± 3.838
pull
Entries 85
Mean 683.9
Std Dev 0
pull1D
Entries 85
Mean 0.005739
Std Dev 0.36

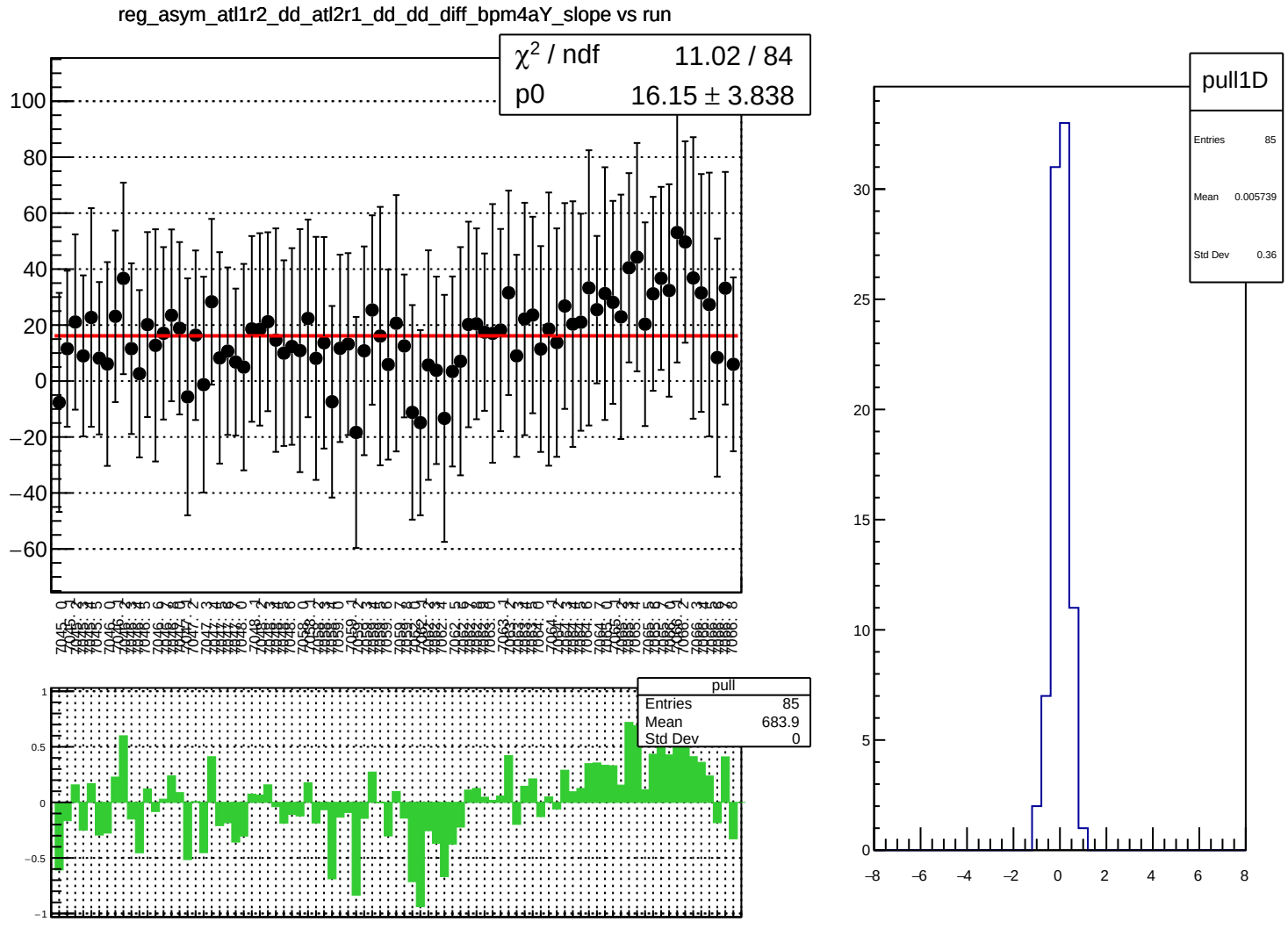

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.98 / 84
p0 −235.9 ± 5.473
−100
−150
−200
−250
−300
−350
pull
Entries 85
Mean −636.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.01079
Std Dev 0.5737
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

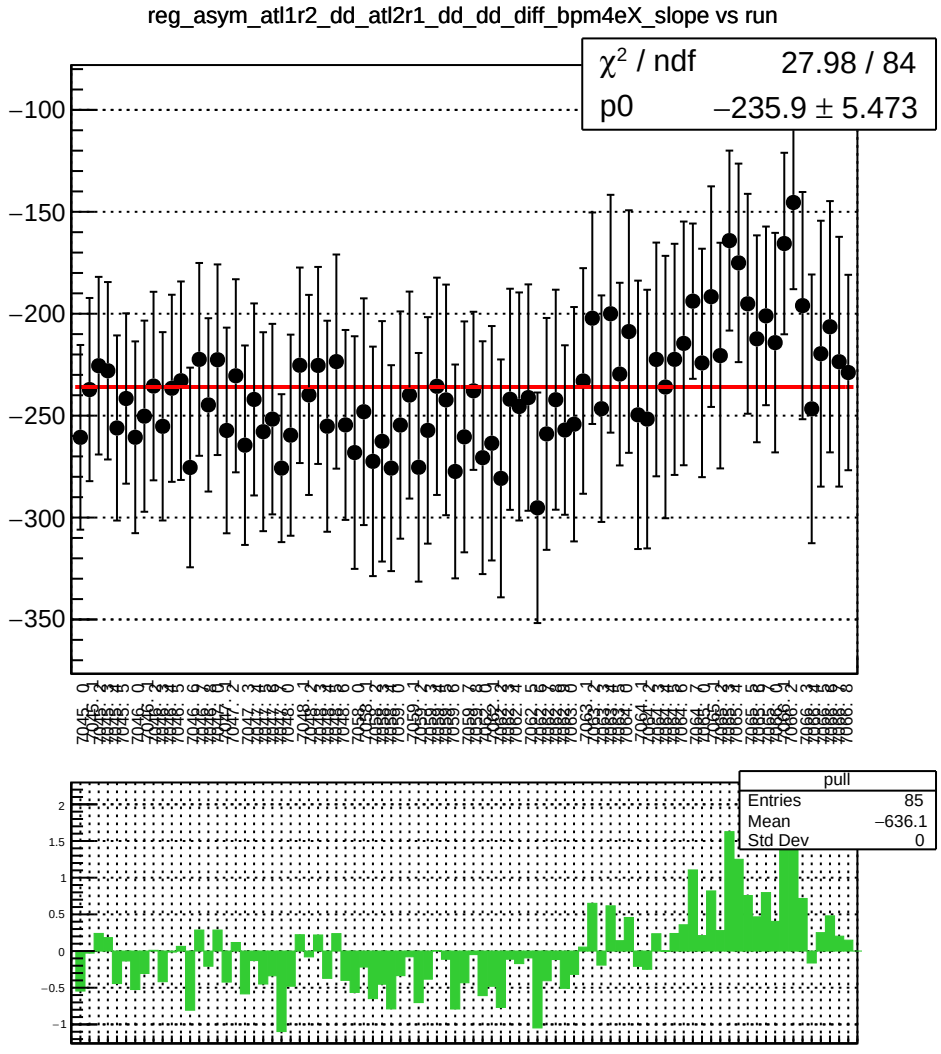

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.89 / 84
p0 −93.3 ± 4.087
pull
Entries 85
Mean 558.4
Std Dev 0
pull1D
Entries 85
Mean −0.009648
Std Dev 0.3893

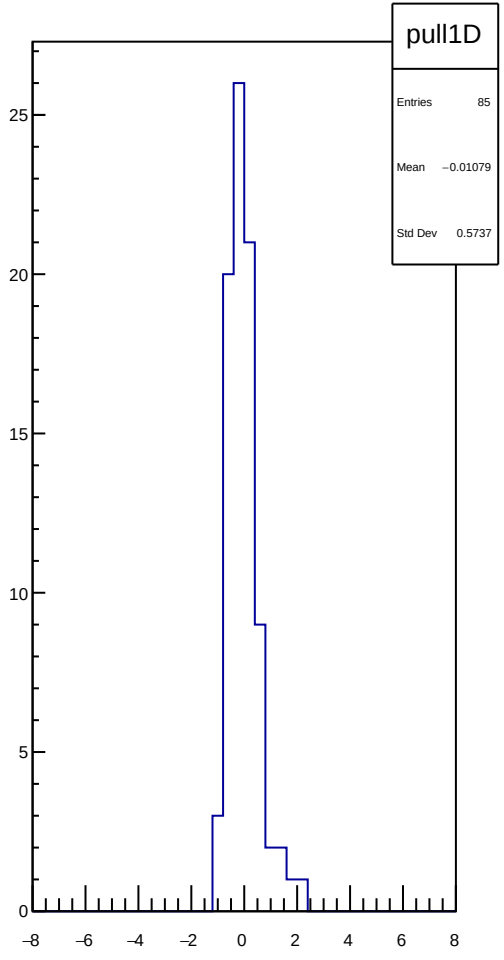

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.071 / 84
p0 122.7 ± 0.1907
pull
Entries 85
Mean 305.7
Std Dev 0

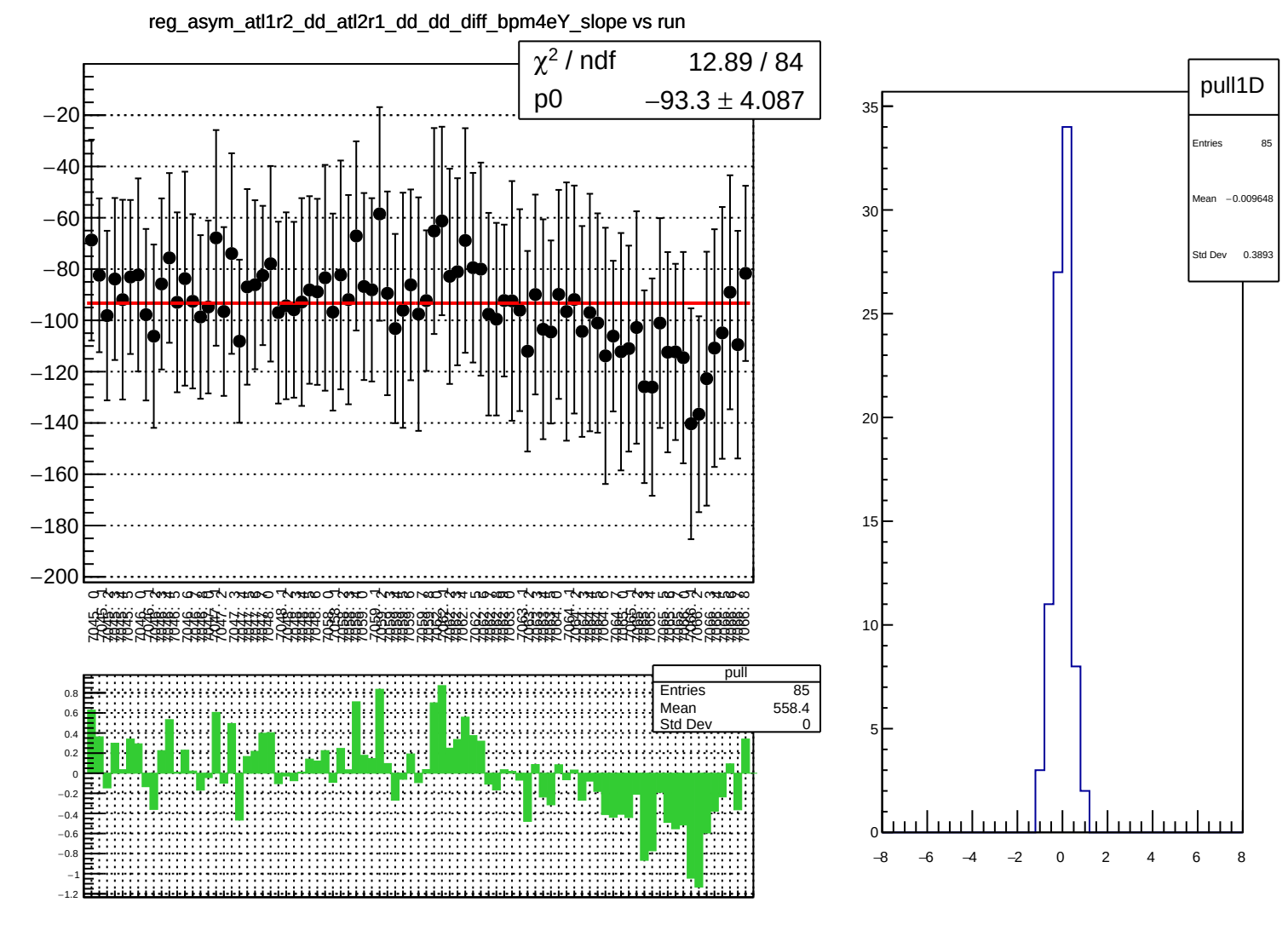

pull1D
Entries 85
Mean −0.01095
Std Dev 0.308

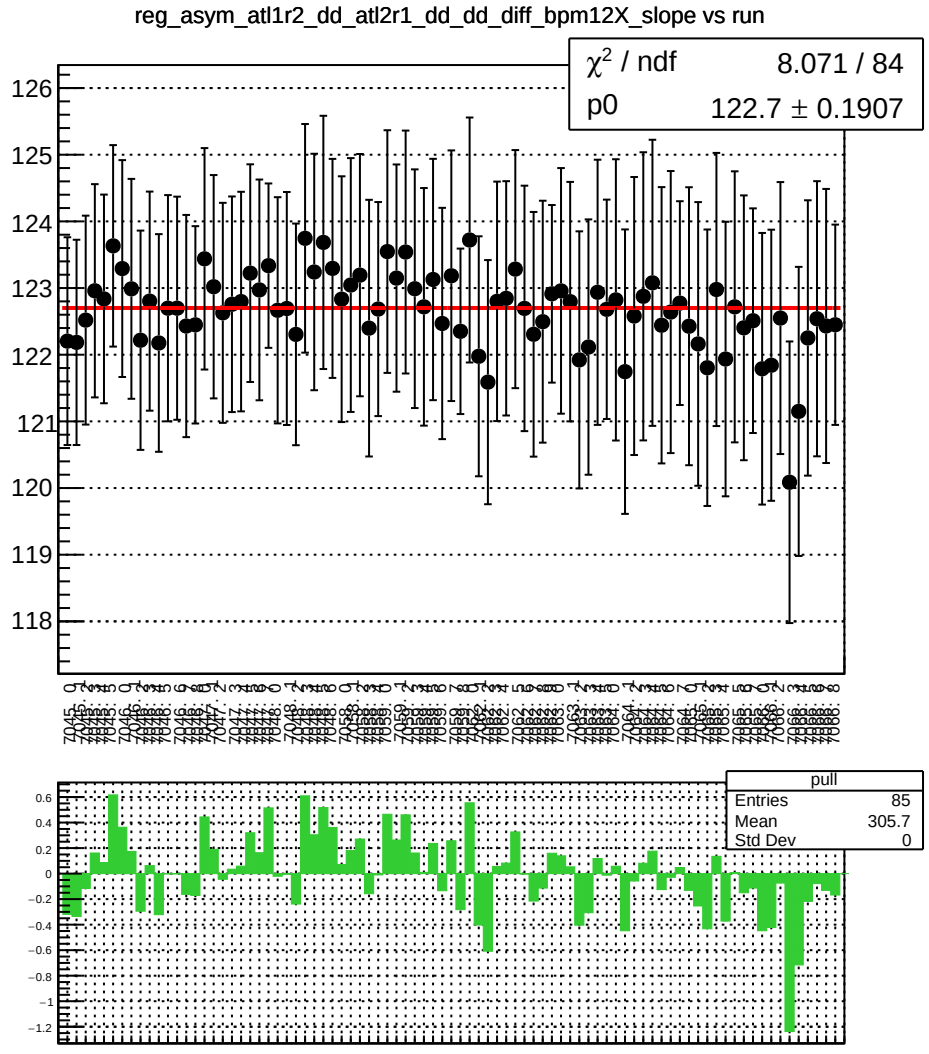

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 29.19 / 84
p0 232.3 ± 5.758
350
300
250
200
150
100
pull
Entries 85
Mean −831.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.009544
Std Dev 0.586
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

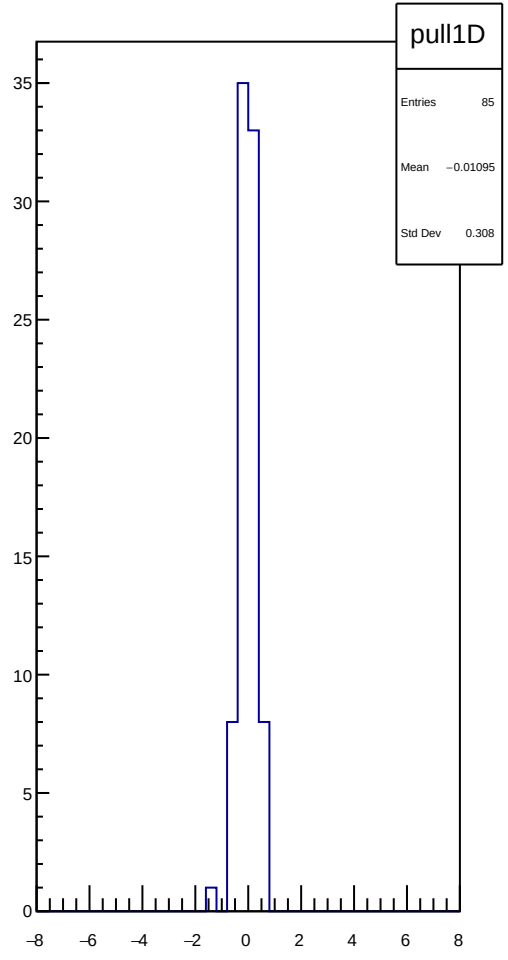

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 84
p0 16.15 ± 3.838
pull
Entries 85
Mean 683.9
Std Dev 0
pull1D
Entries 85
Mean 0.005739
Std Dev 0.36

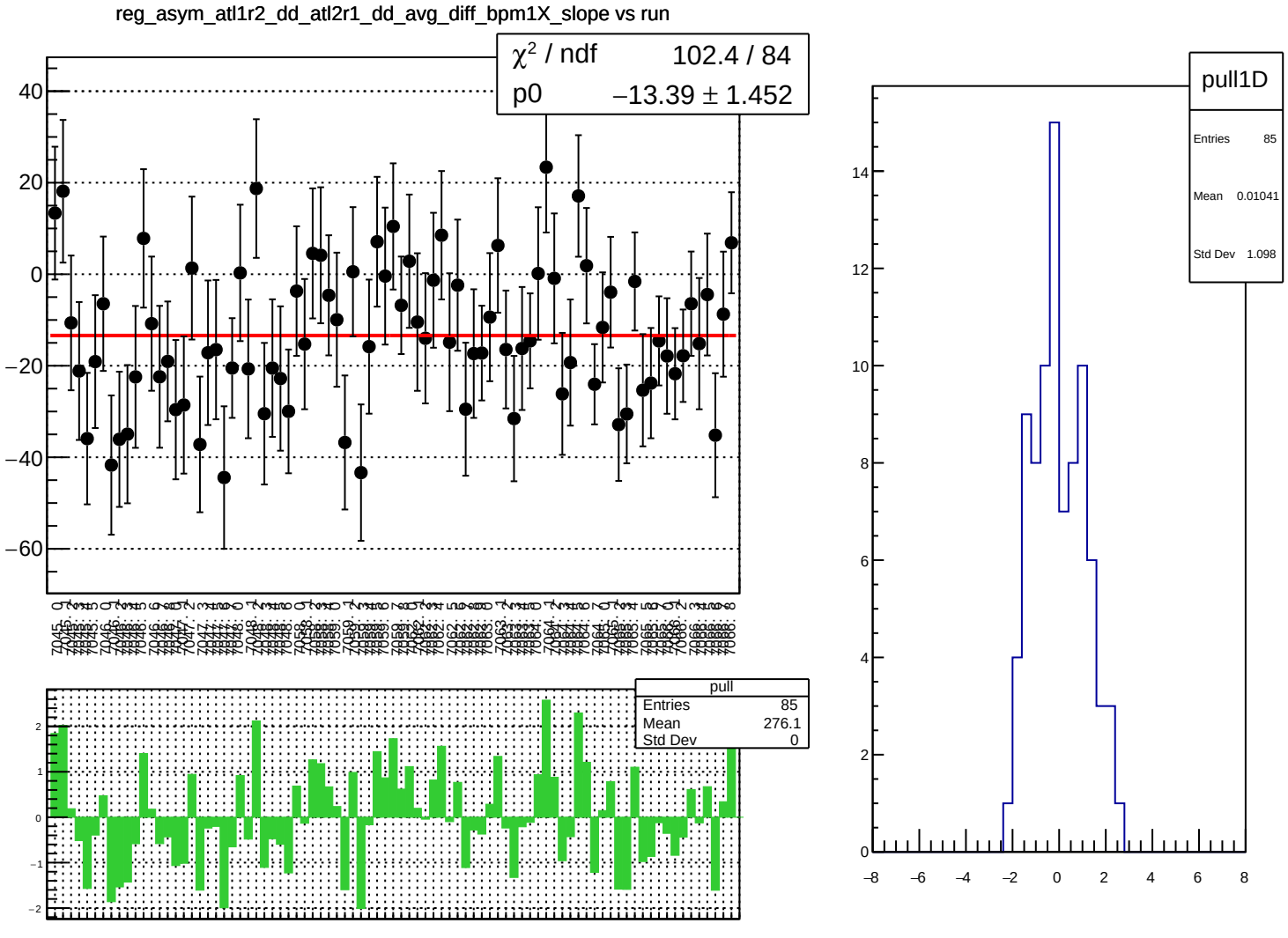

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.98 / 84
p0 −235.9 ± 5.473
pull
Entries 85
Mean −636.1
Std Dev 0

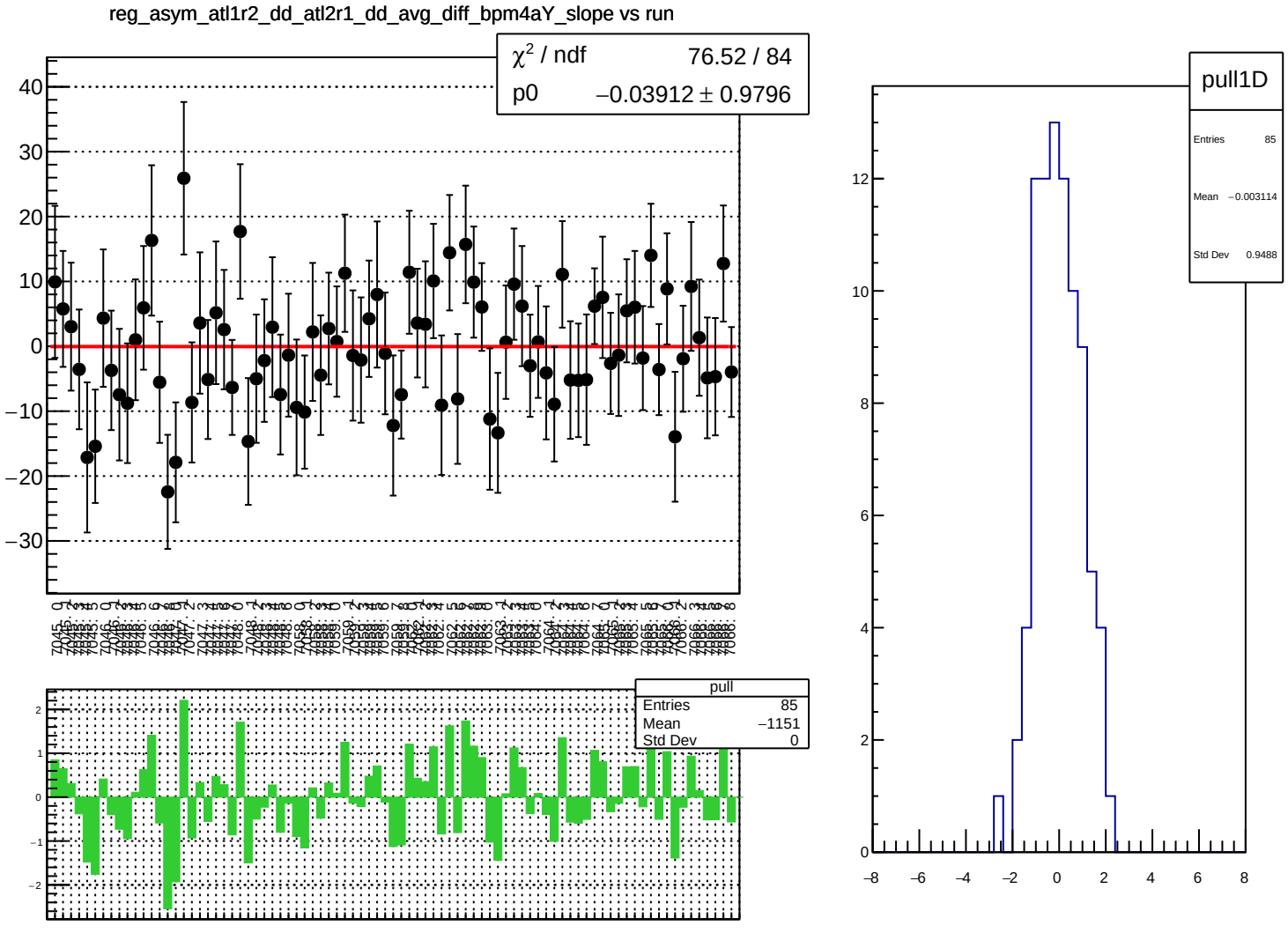

pull1D
Entries 85
Mean −0.01079
Std Dev 0.5737

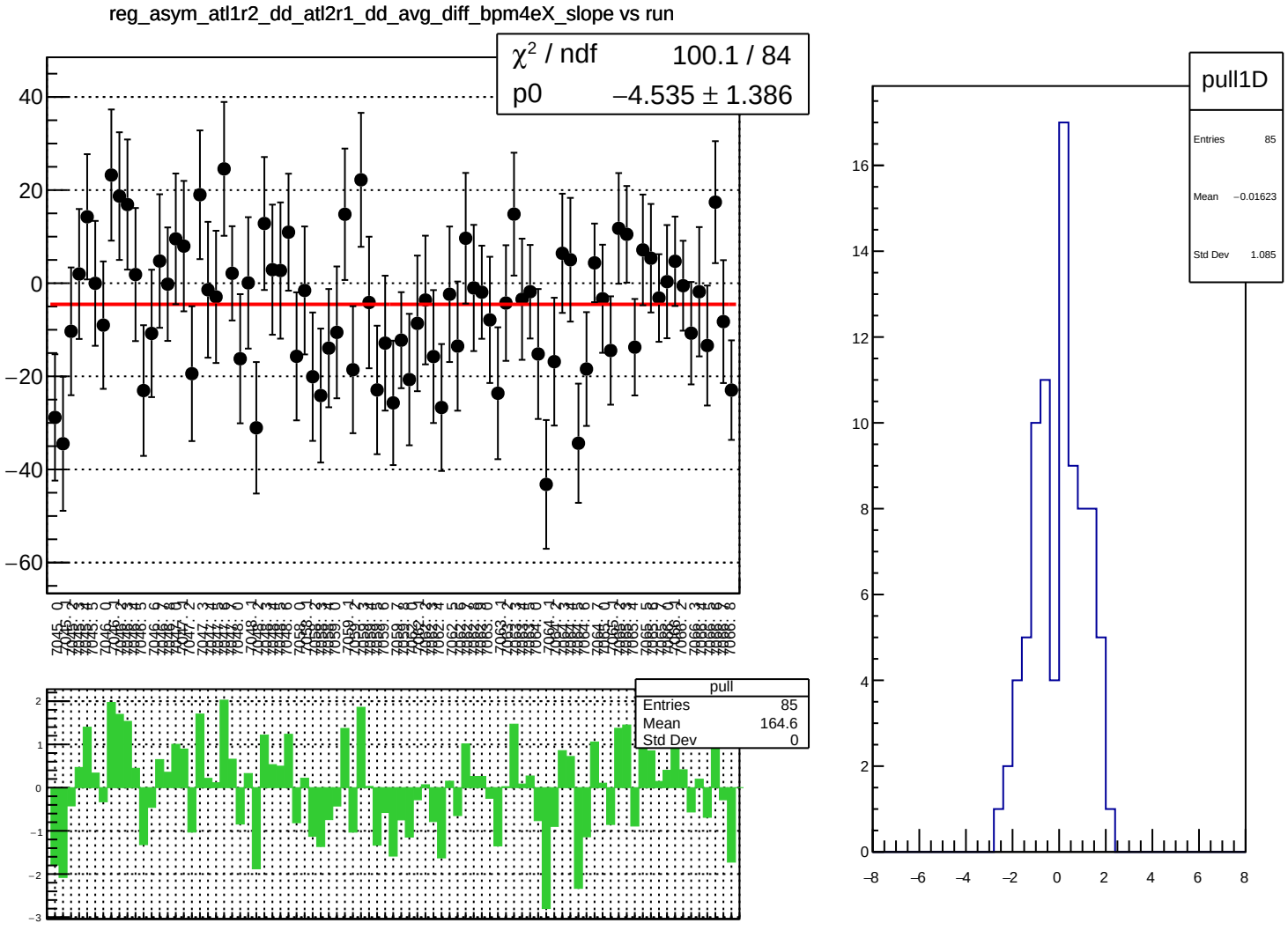

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.89 / 84
p0 −93.3 ± 4.087
pull
Entries 85
Mean 558.4
Std Dev 0
pull1D
Entries 85
Mean −0.009648
Std Dev 0.3893

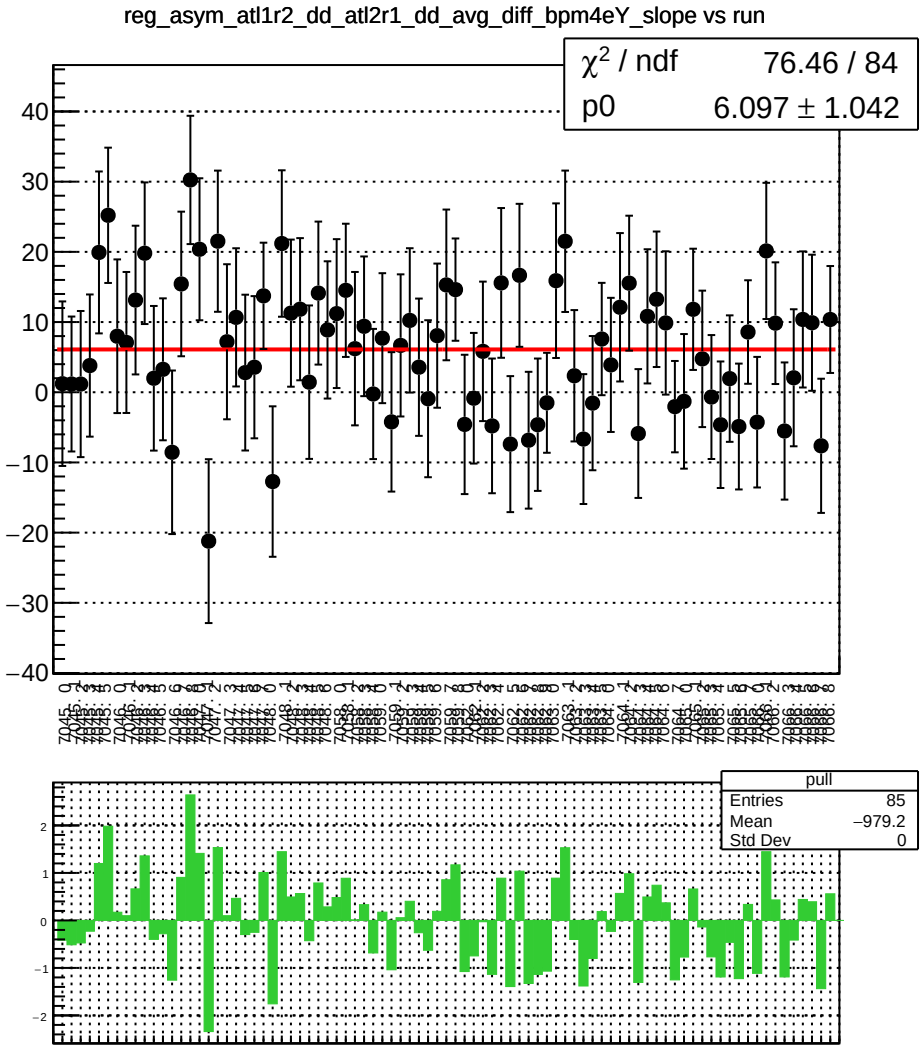

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 8.071 / 84
p0 122.7 ± 0.1907
pull
Entries 85
Mean 305.7
Std Dev 0

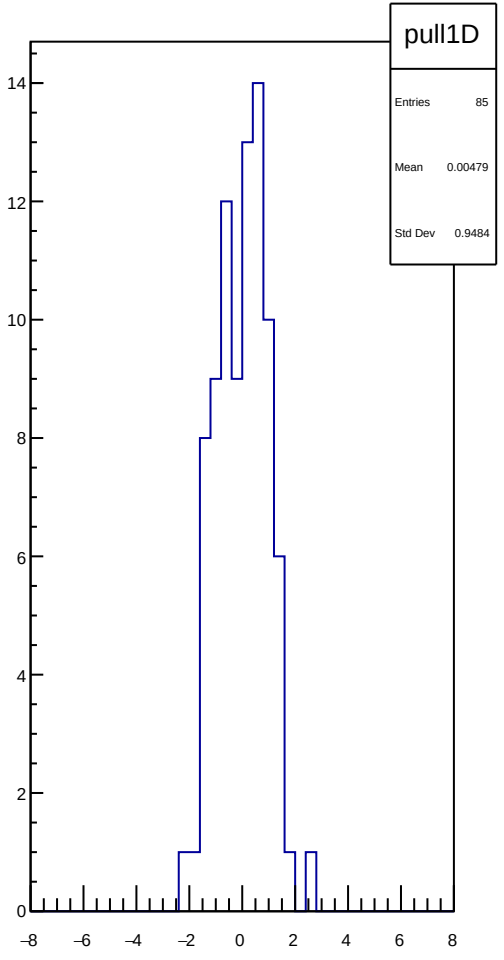

pull1D
Entries 85
Mean −0.01095
Std Dev 0.308

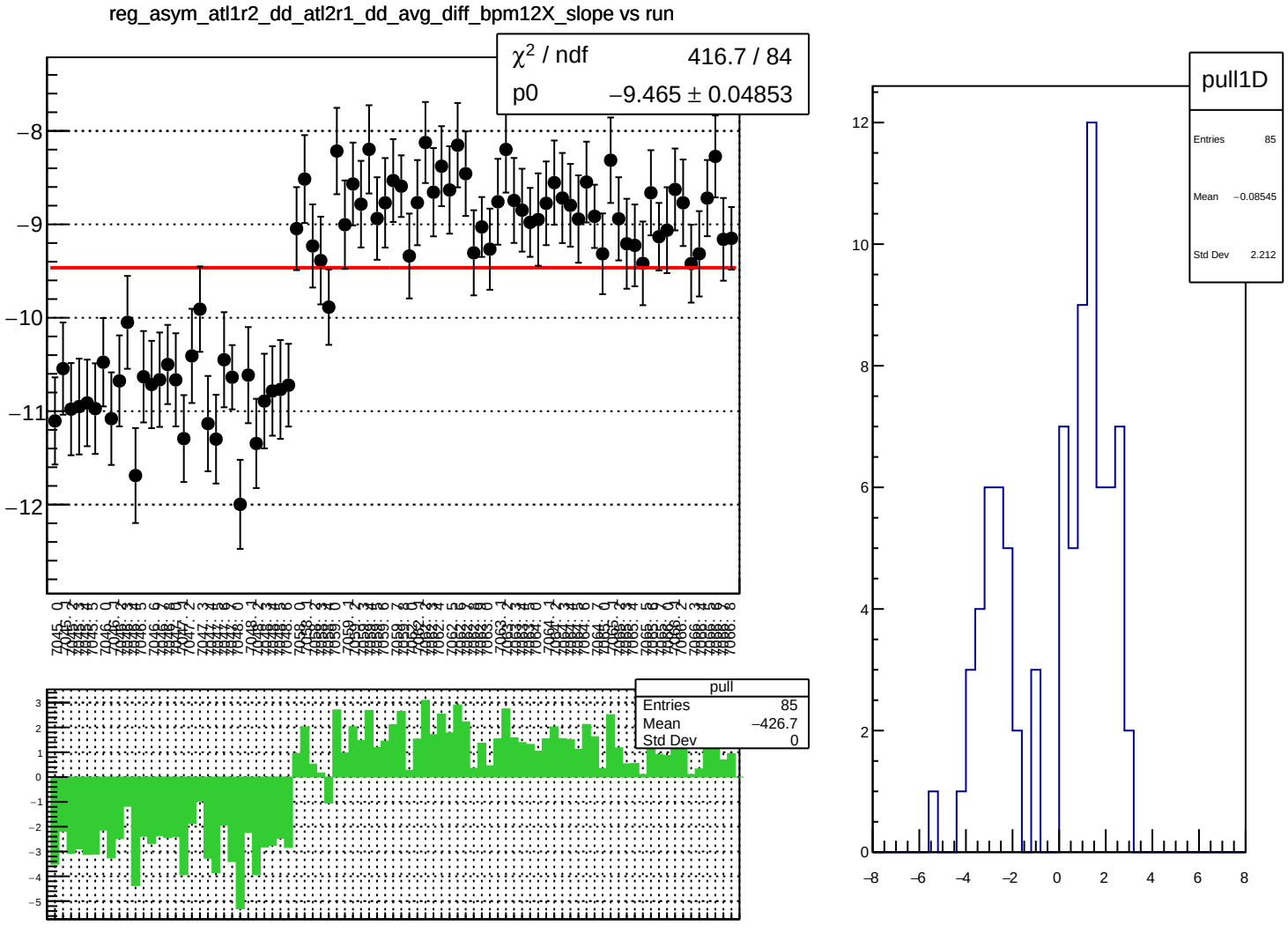

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 102.4 / 84
p0 −13.39 ± 1.452
pull
Entries 85
Mean 276.1
Std Dev 0
pull1D
Entries 85
Mean 0.01041
Std Dev 1.098

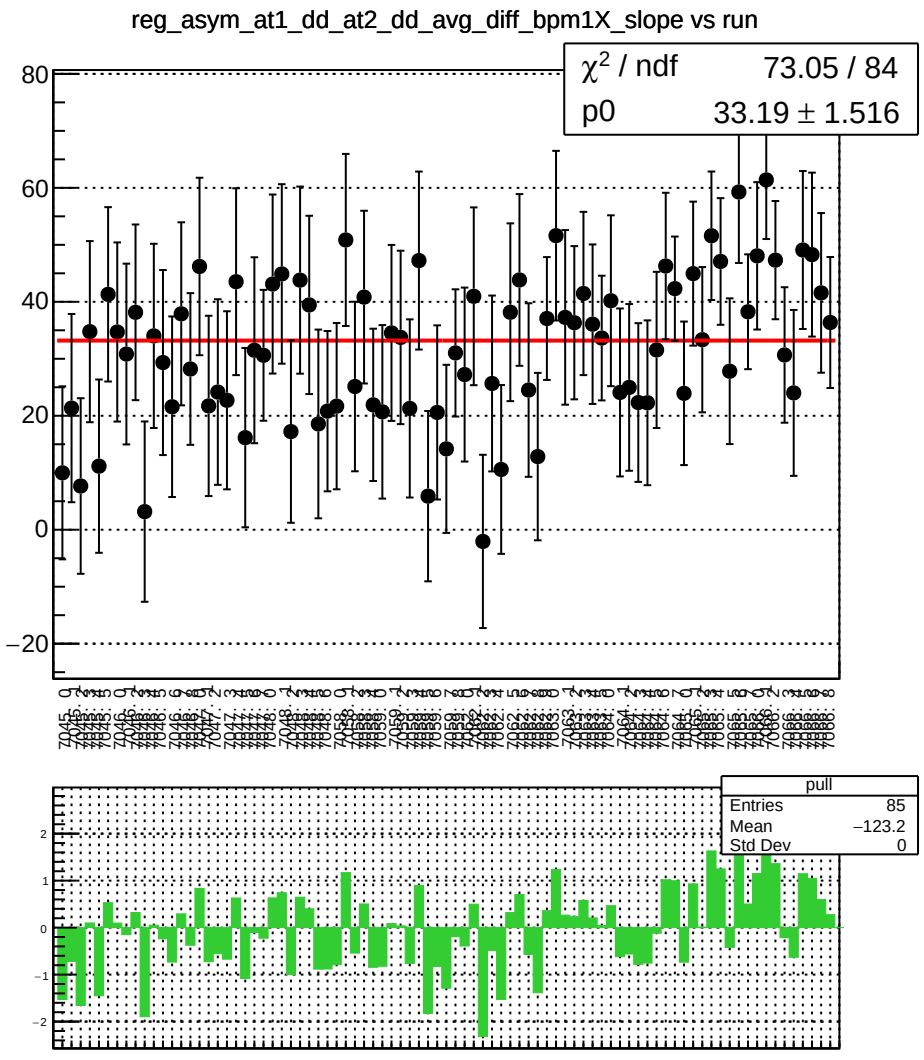

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.52 / 84
p0 −0.03912 ± 0.9796
pull
Entries 85
Mean −1151
Std Dev 0
pull1D
Entries 85
Mean −0.003114
Std Dev 0.9488

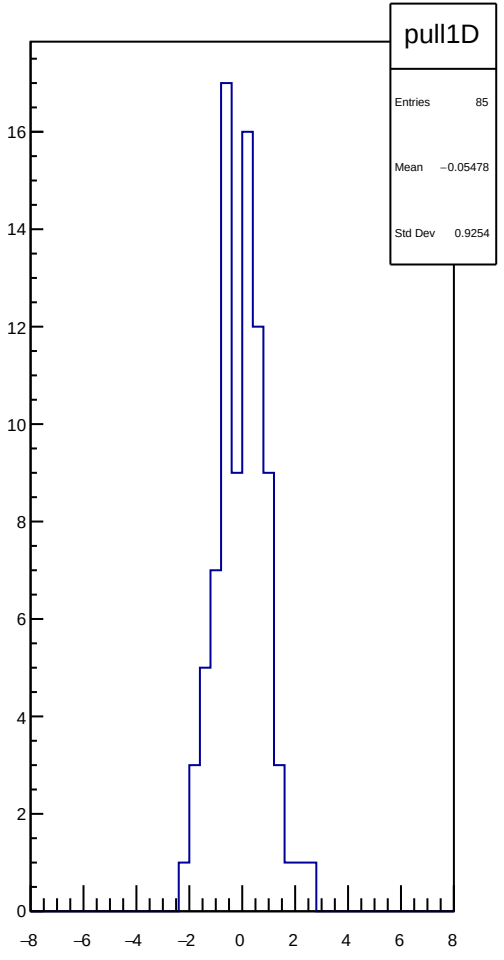

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.1 / 84
p0 −4.535 ± 1.386
pull
Entries 85
Mean 164.6
Std Dev 0
pull1D
Entries 85
Mean −0.01623
Std Dev 1.085

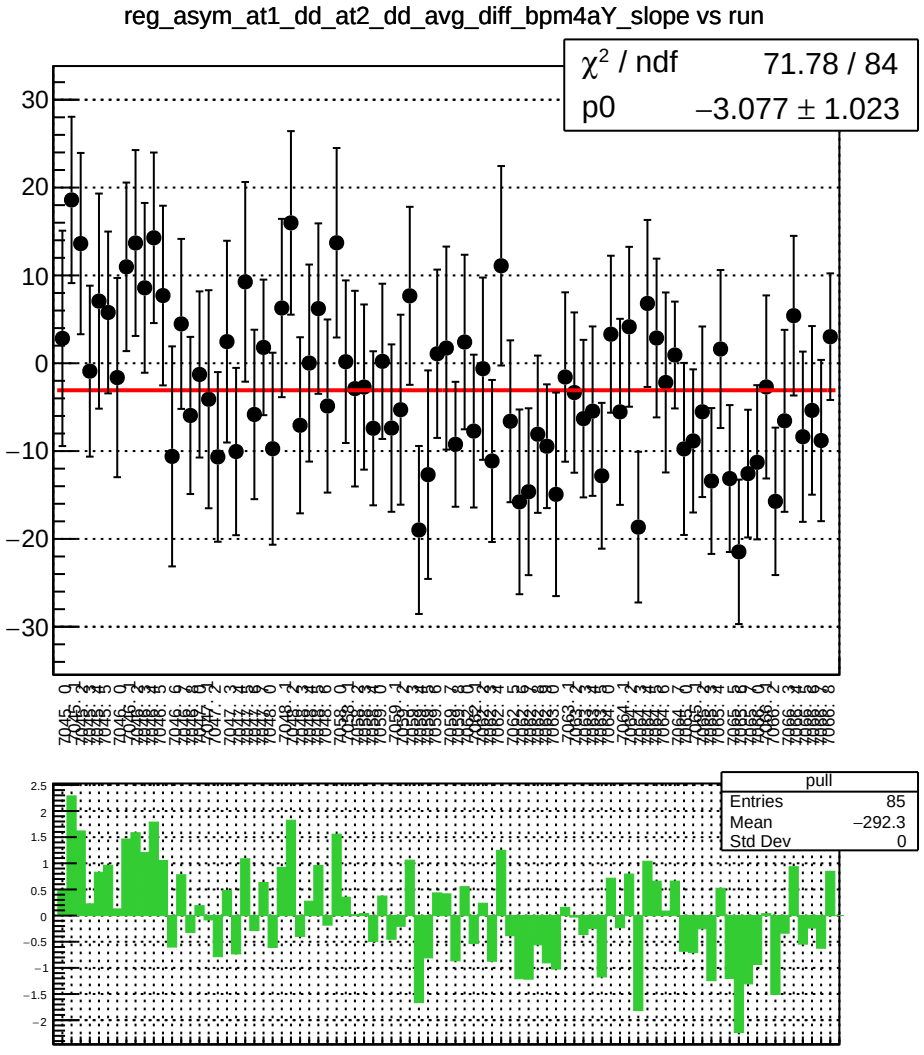

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.46 / 84
p0 6.097 ± 1.042
pull
Entries 85
Mean −979.2
Std Dev 0

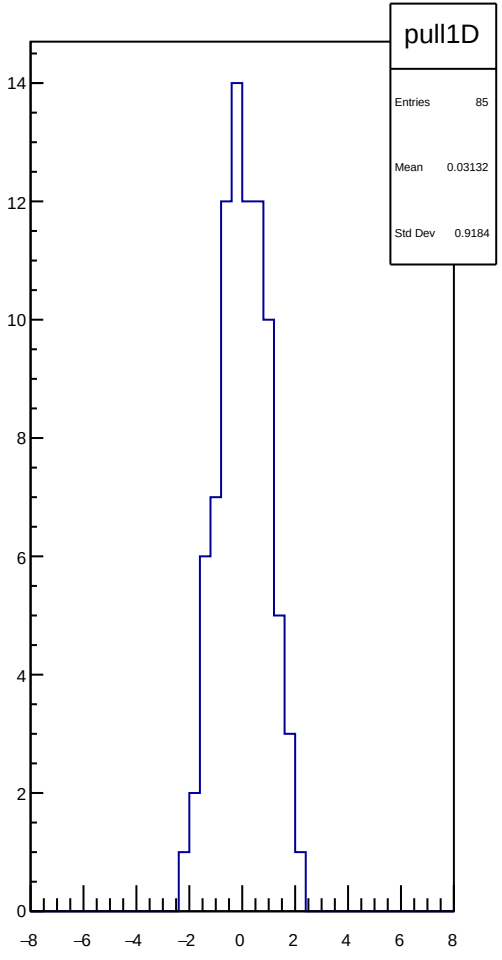

pull1D
Entries 85
Mean 0.00479
Std Dev 0.9484

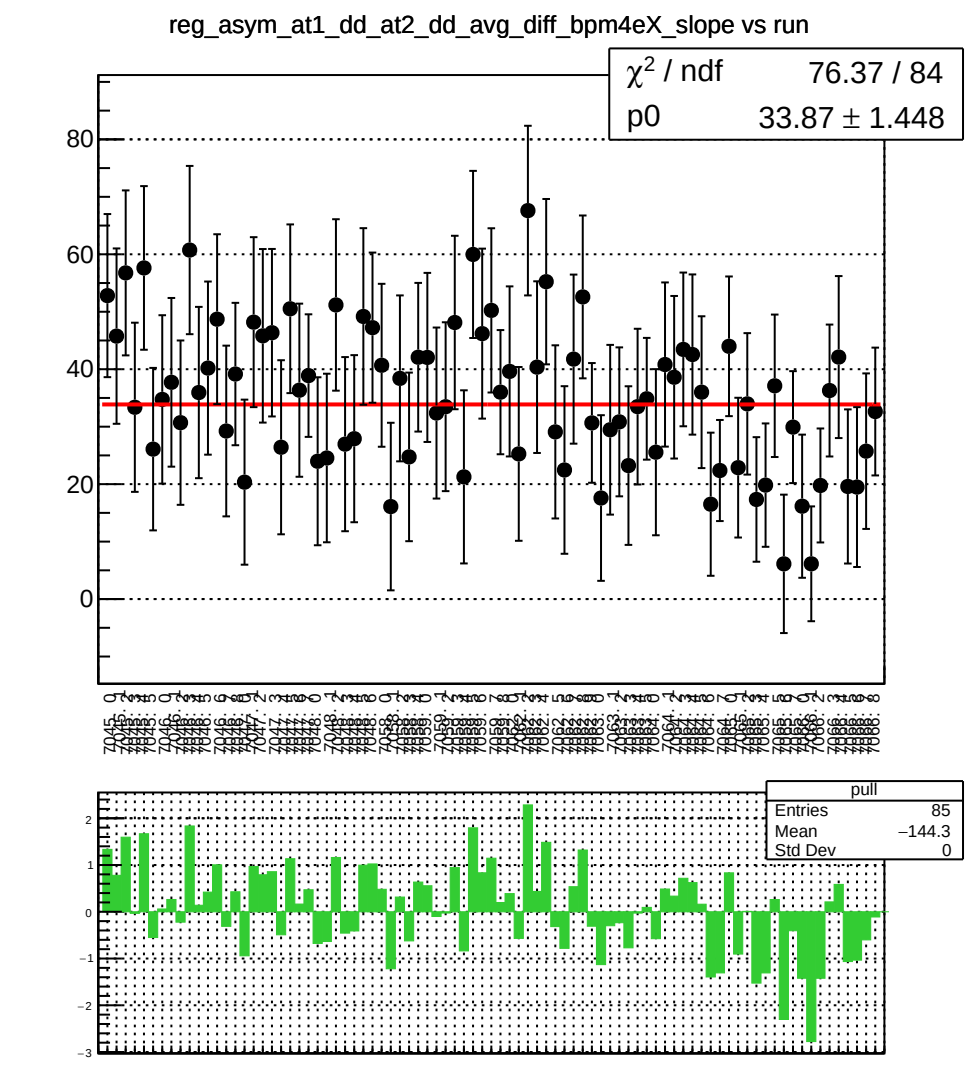

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 416.7 / 84
p0 −9.465 ± 0.04853
pull
Entries 85
Mean −426.7
Std Dev 0
pull1D
Entries 85
Mean −0.08545
Std Dev 2.212

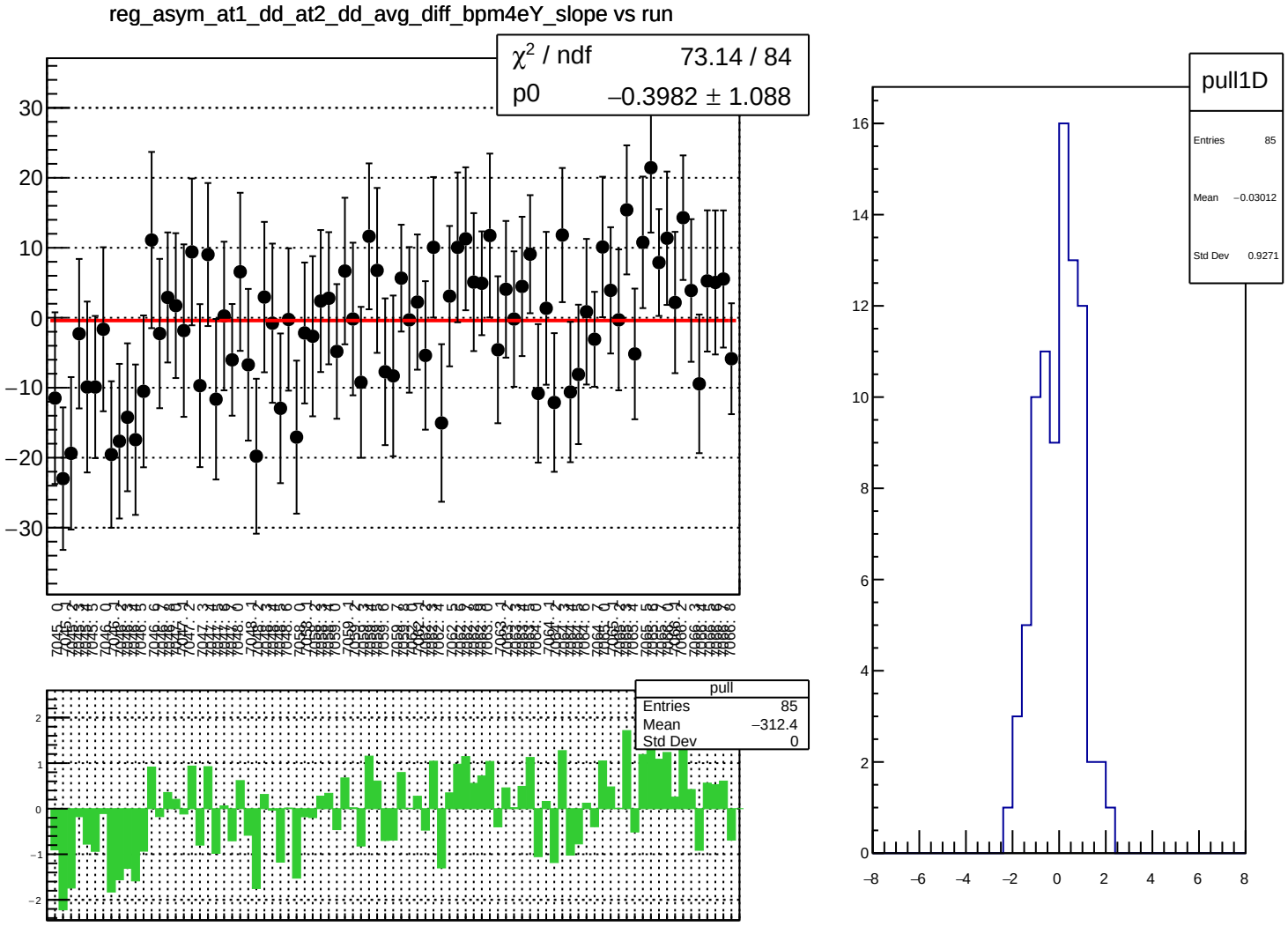

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 73.05 / 84
p0 33.19 ± 1.516
pull
Entries 85
Mean −123.2
Std Dev 0

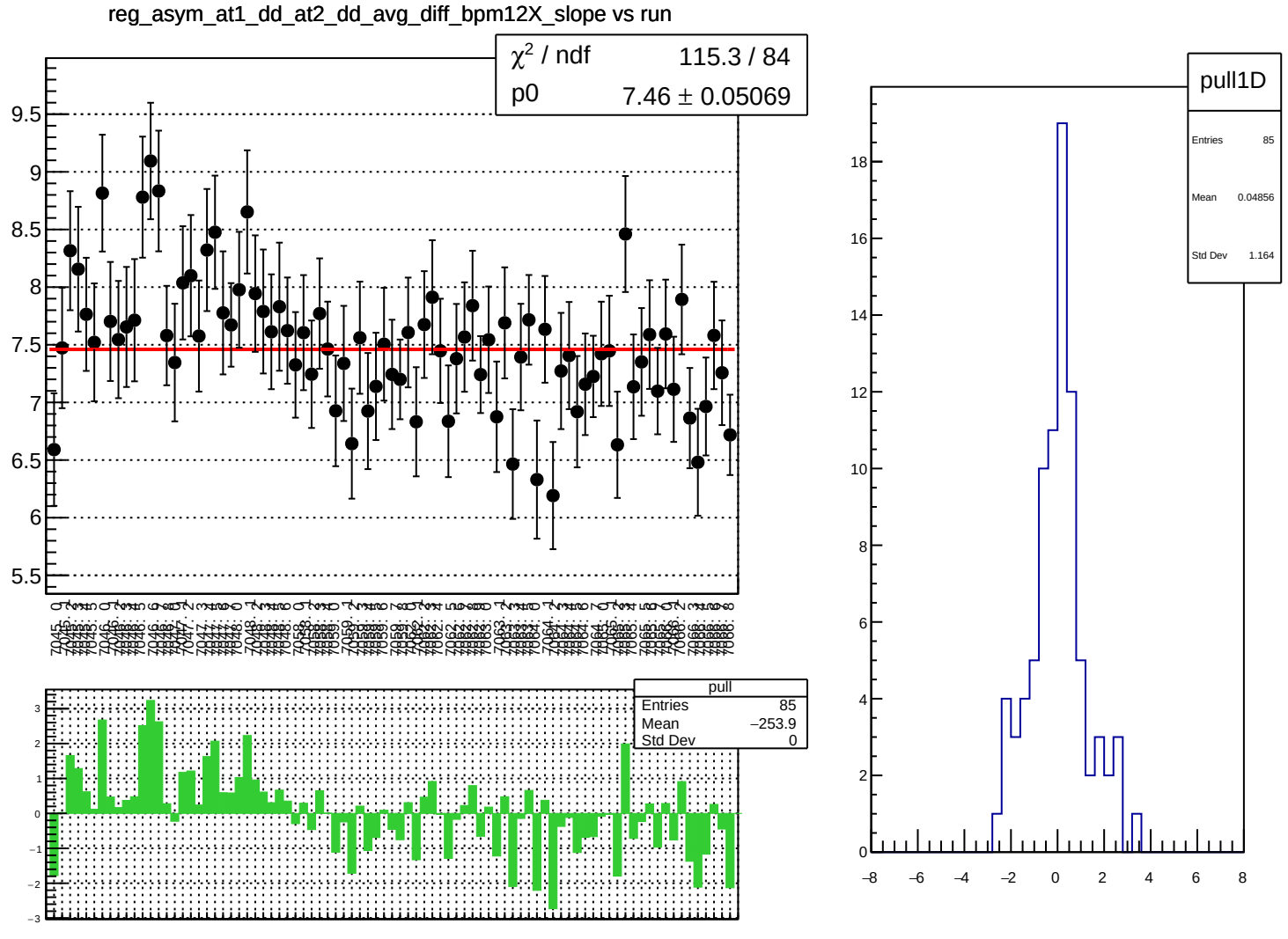

pull1D
Entries 85
Mean −0.05478
Std Dev 0.9254

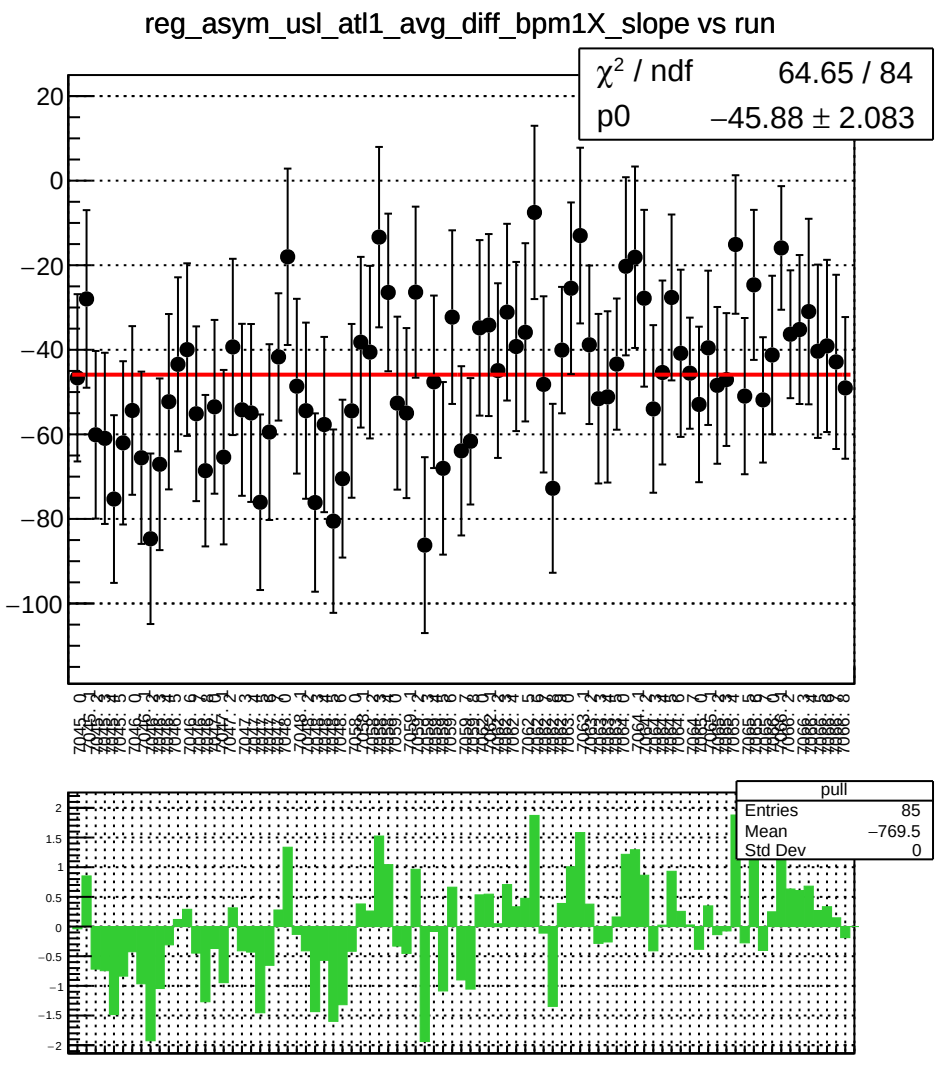

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.78 / 84
p0 −3.077 ± 1.023
pull
Entries 85
Mean −292.3
Std Dev 0

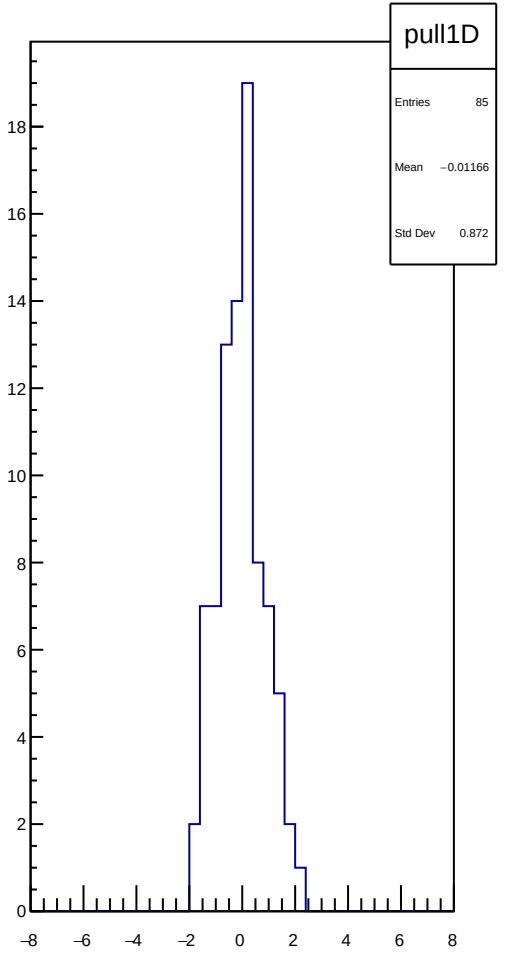

pull1D
Entries 85
Mean 0.03132
Std Dev 0.9184

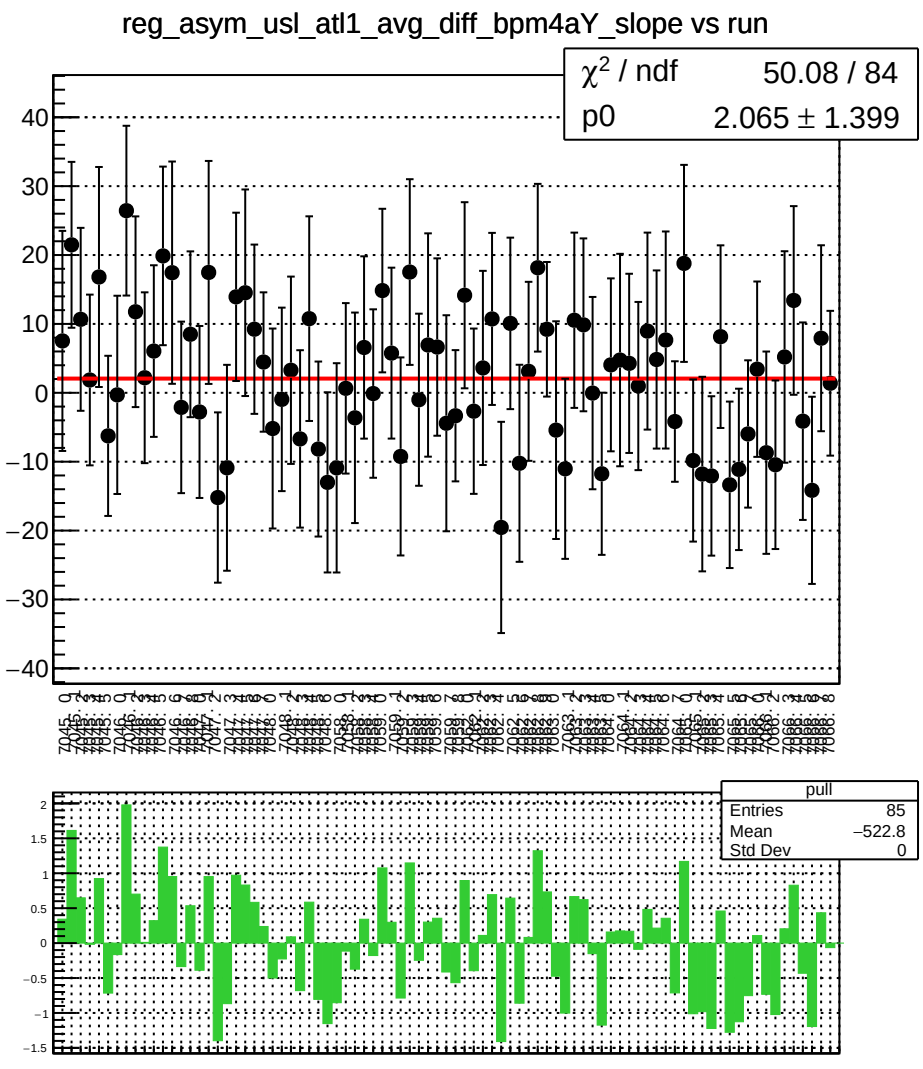

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.37 / 84
p0 33.87 ± 1.448
pull
Entries 85
Mean −144.3
Std Dev 0
pull1D
Entries 85
Mean 0.0545
Std Dev 0.9463

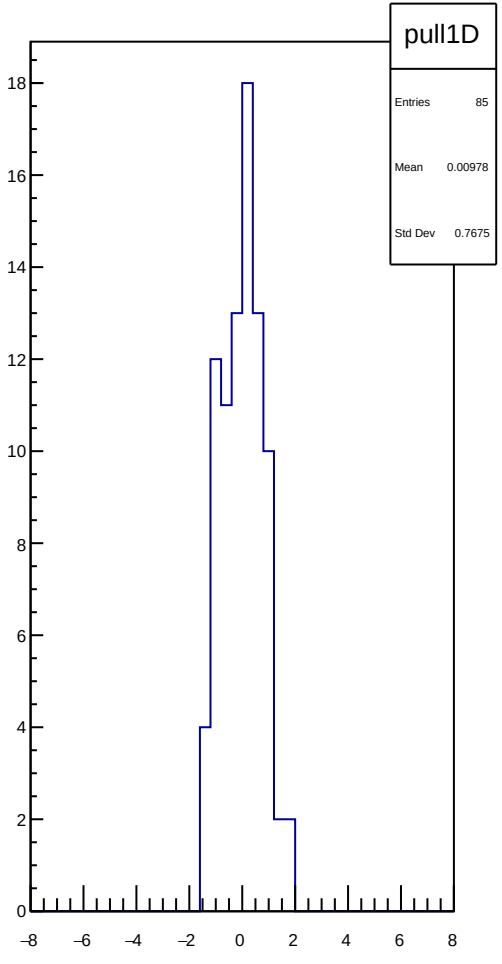

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.14 / 84
p0 −0.3982 ± 1.088
pull
Entries 85
Mean −312.4
Std Dev 0
pull1D
Entries 85
Mean −0.03012
Std Dev 0.9271

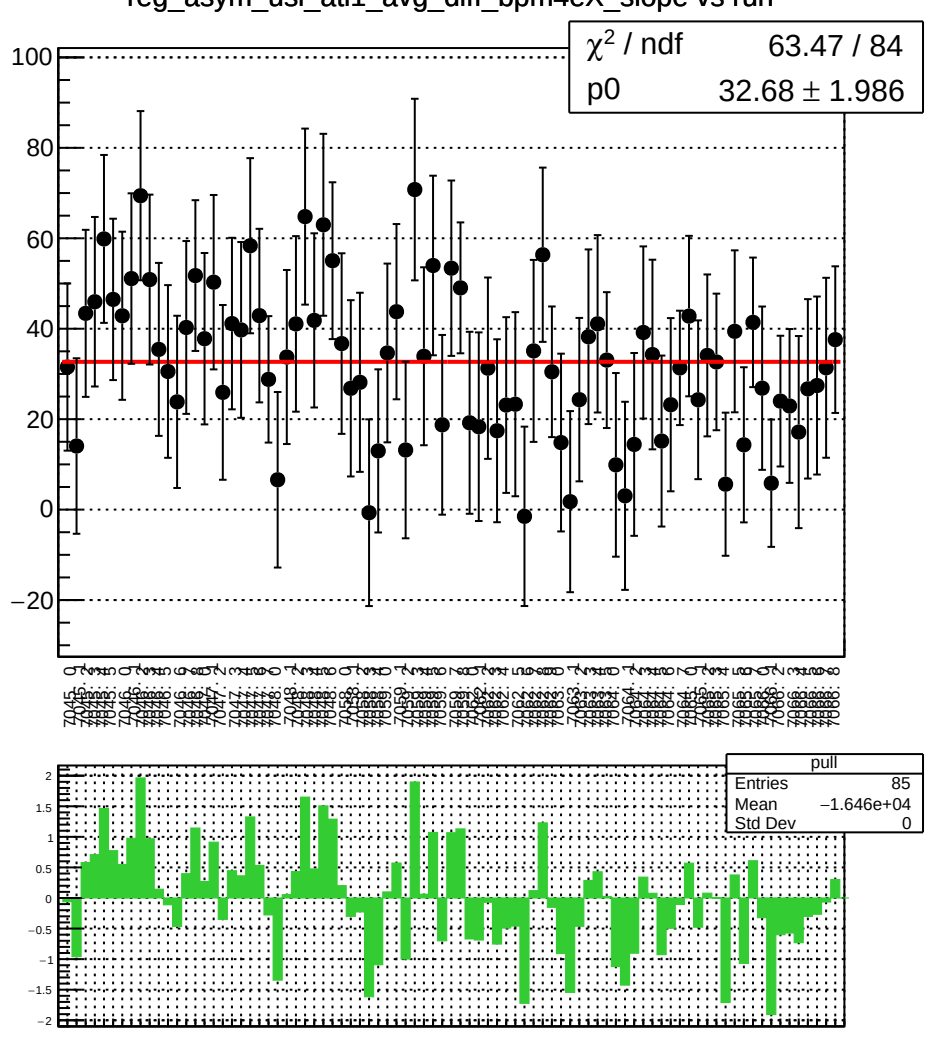

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 115.3 / 84
p0 7.46 ± 0.05069
pull
Entries 85
Mean −253.9
Std Dev 0
pull1D
Entries 85
Mean 0.04856
Std Dev 1.164

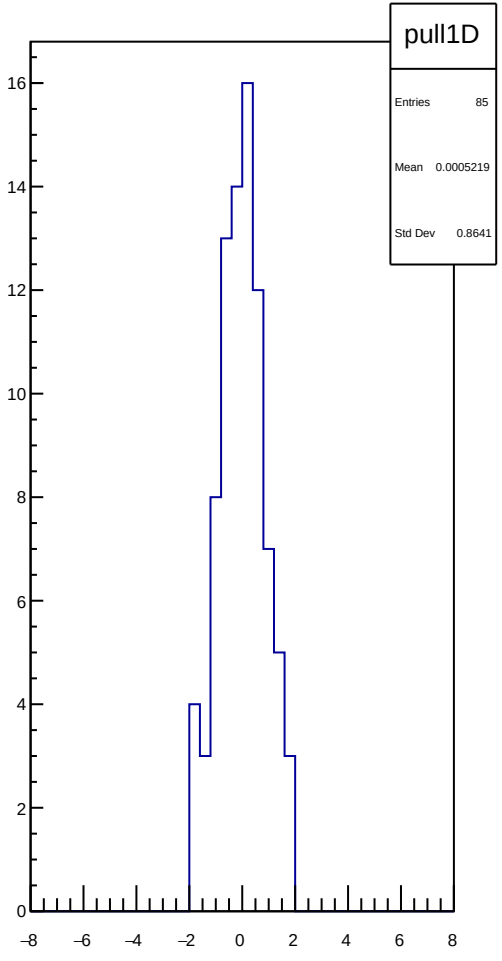

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 64.65 / 84
p0 −45.88 ± 2.083
pull
Entries 85
Mean −769.5
Std Dev 0

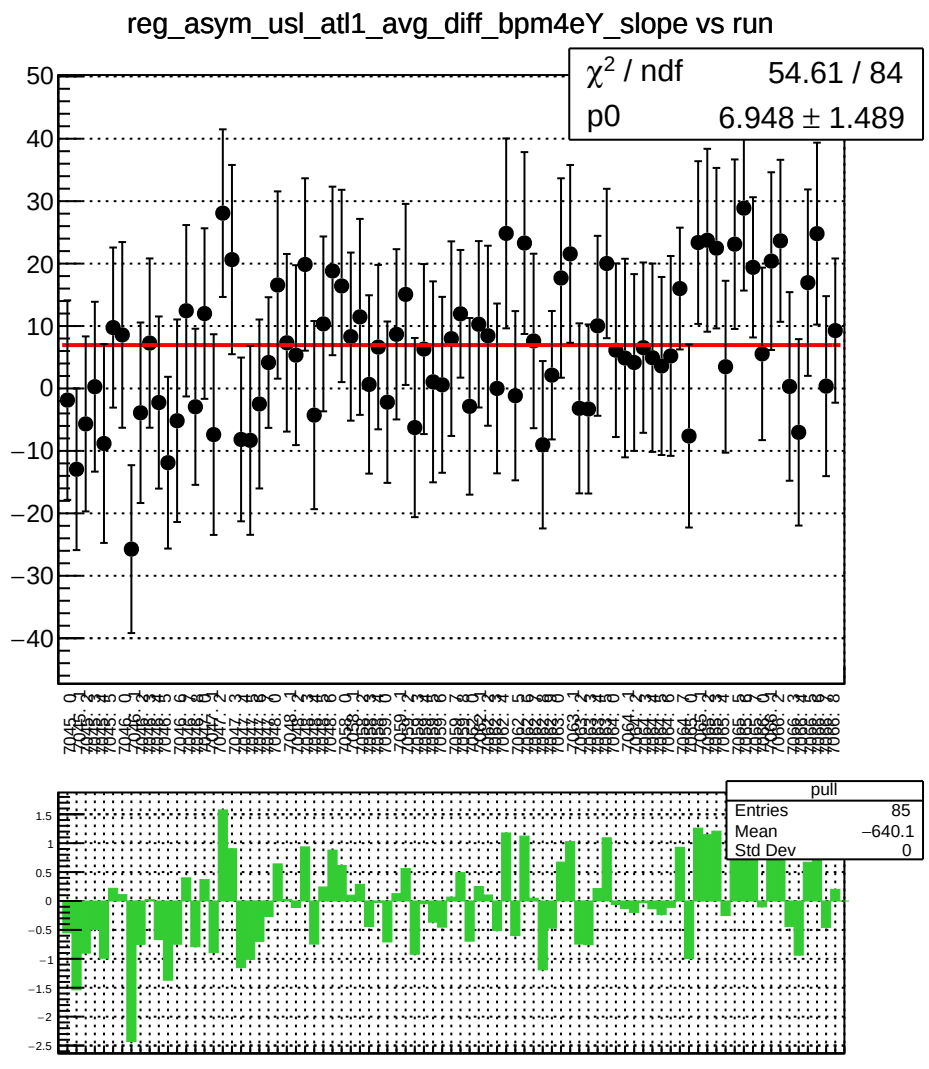

pull1D
Entries 85
Mean −0.01166
Std Dev 0.872

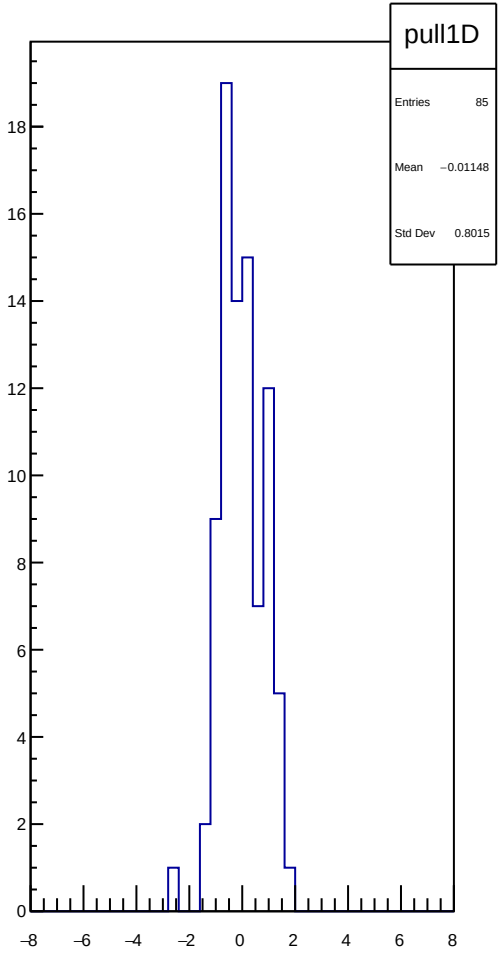

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.08 / 84
p0 2.065 ± 1.399
pull
Entries 85
Mean −522.8
Std Dev 0

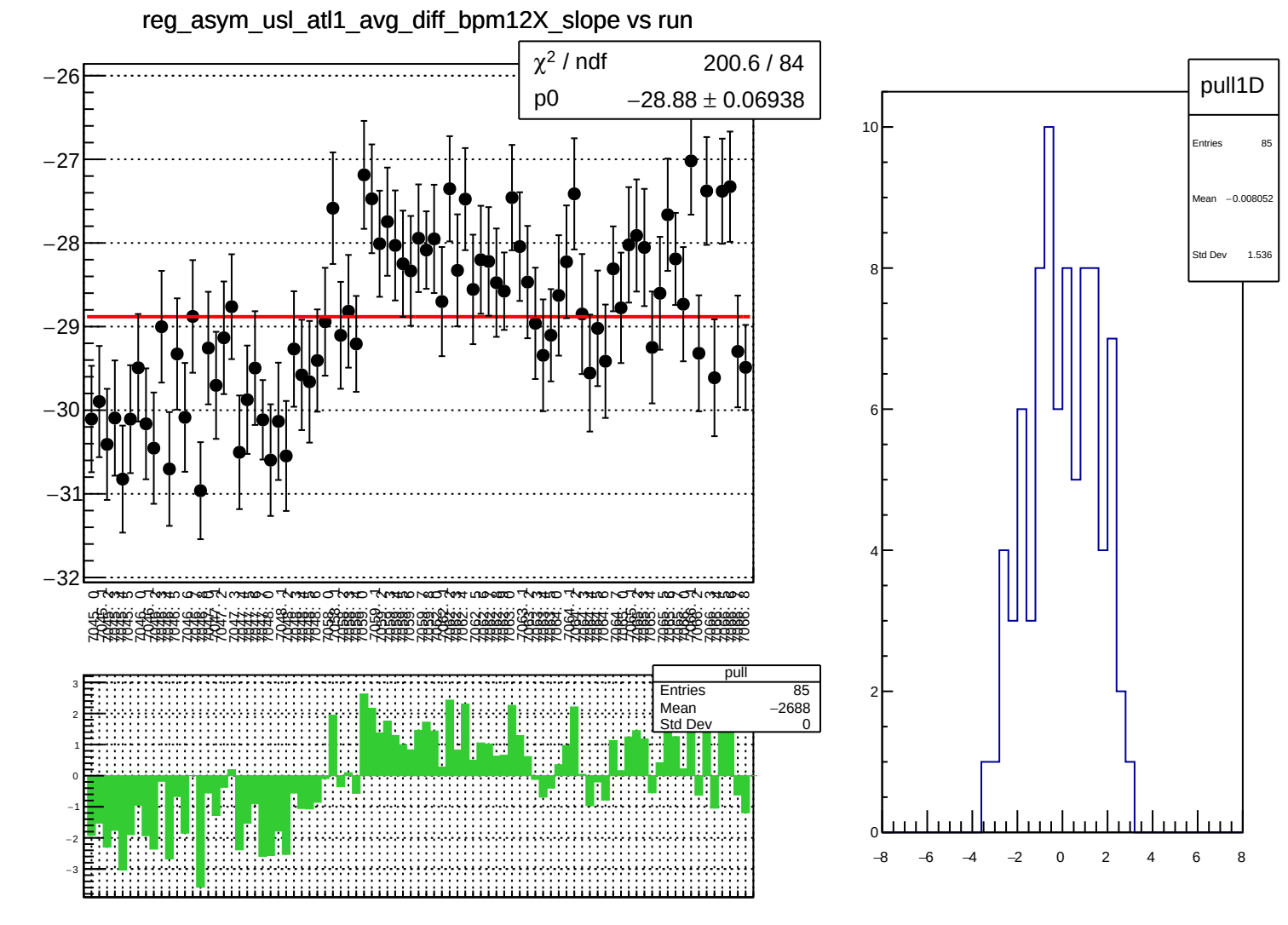

pull1D
Entries 85
Mean 0.00978
Std Dev 0.7675

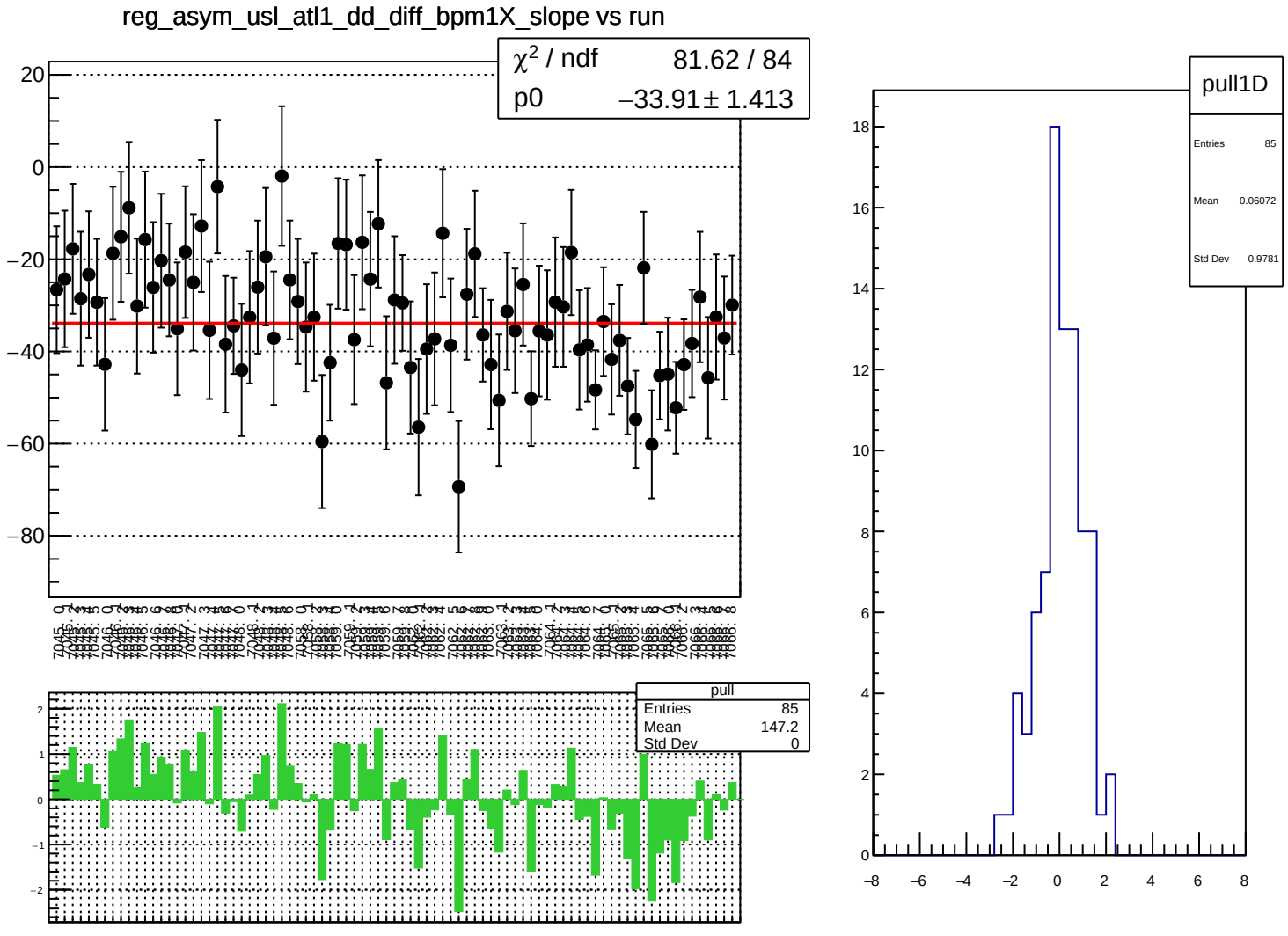

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.47 / 84
p0 32.68 ± 1.986
pull
Entries 85
Mean −1.646e+04
Std Dev 0

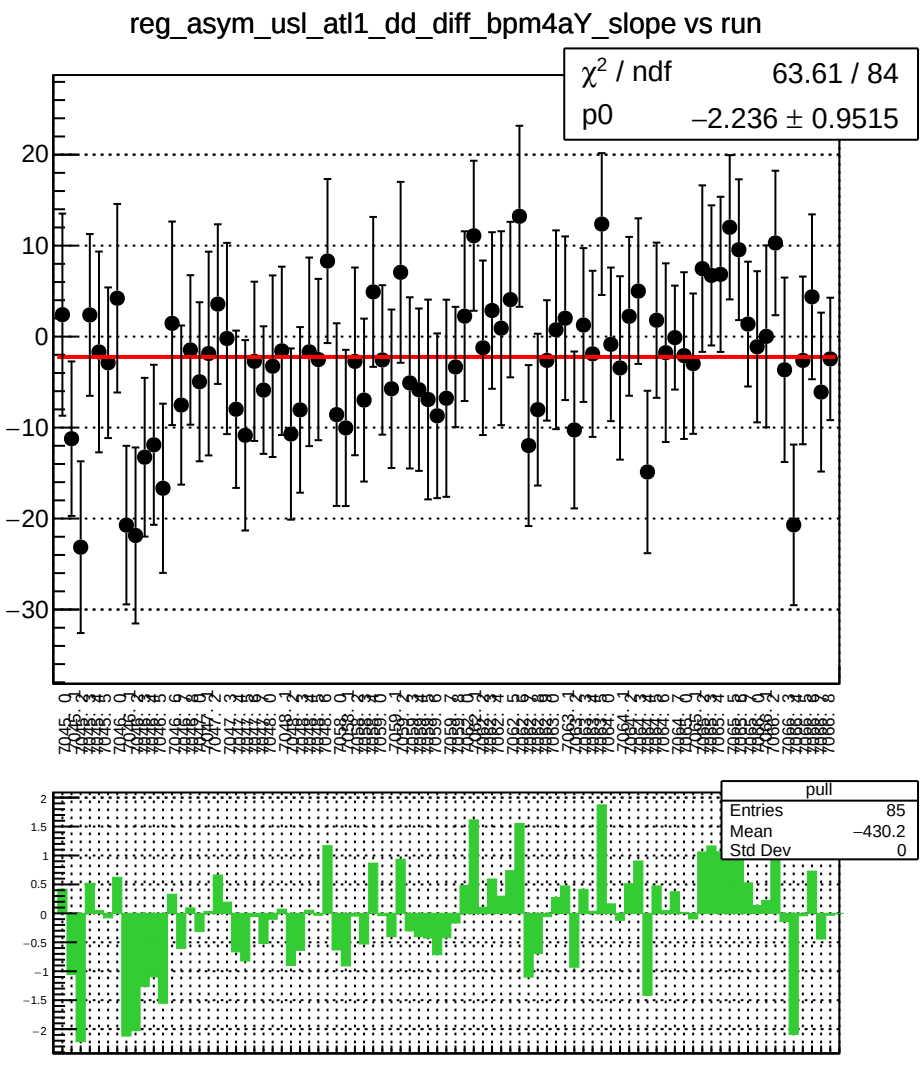

pull1D
Entries 85
Mean 0.0005219
Std Dev 0.8641

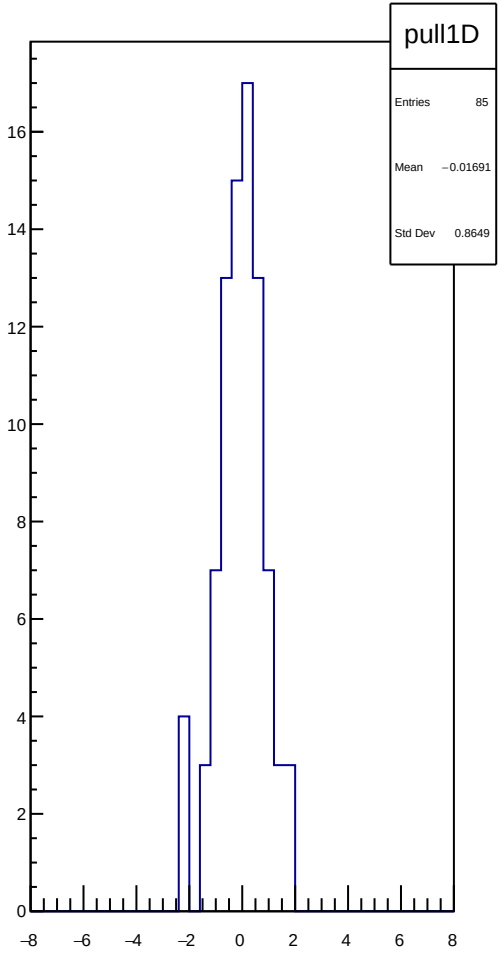

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.61 / 84
p0 6.948 ± 1.489
pull
Entries 85
Mean −640.1
Std Dev 0

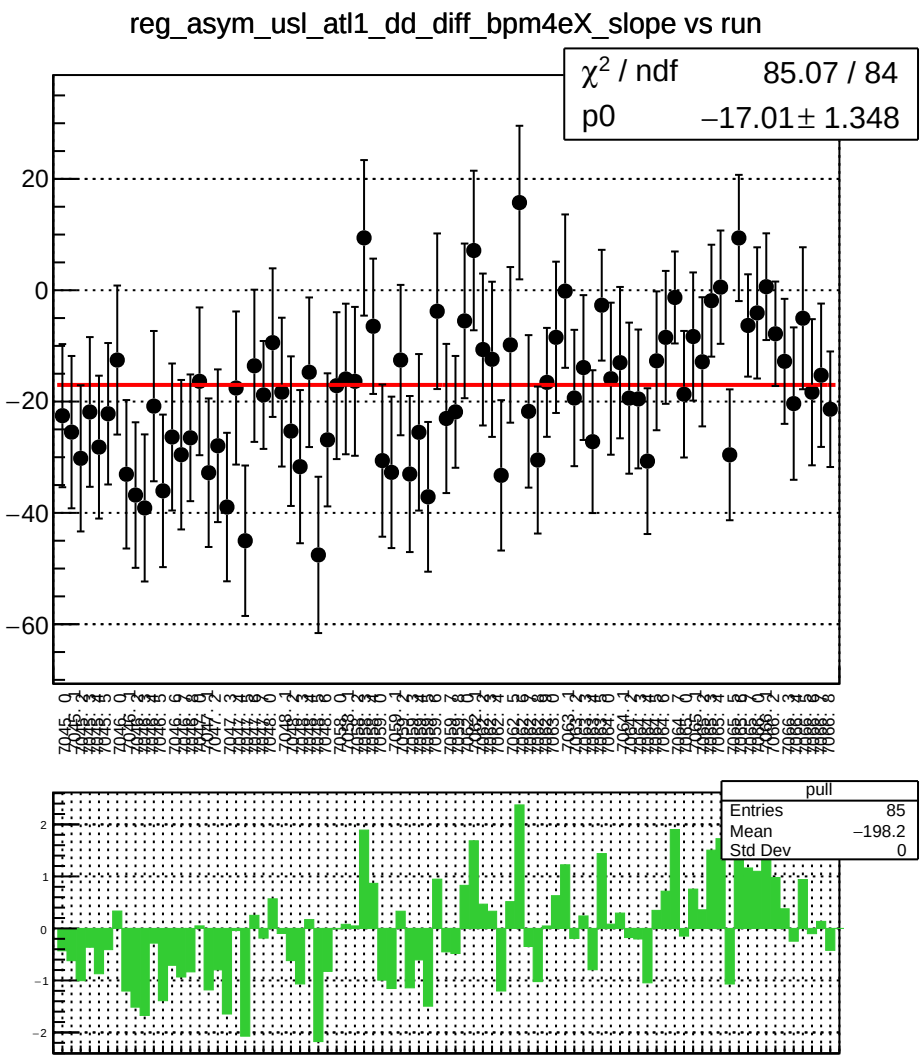

pull1D
Entries 85
Mean −0.01148
Std Dev 0.8015

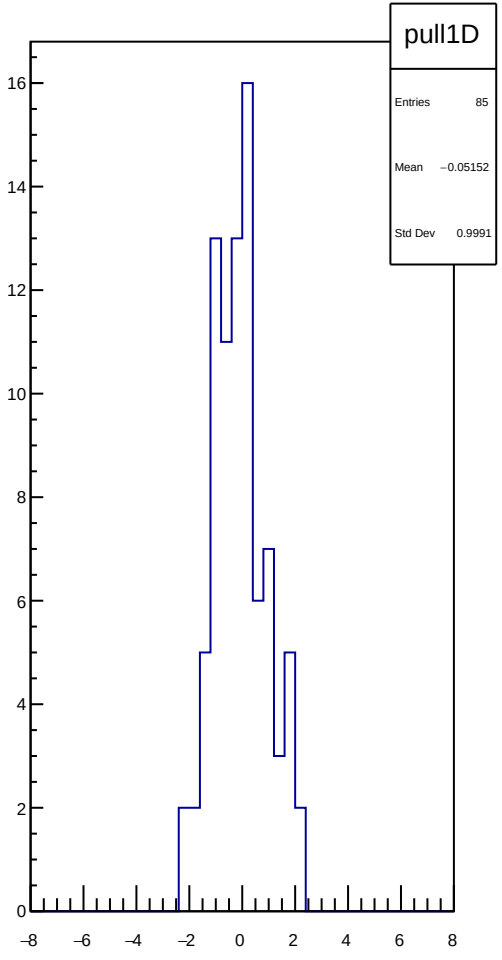

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 200.6 / 84
p0 −28.88 ± 0.06938
pull
Entries 85
Mean −2688
Std Dev 0
pull1D
Entries 85
Mean −0.008052
Std Dev 1.536

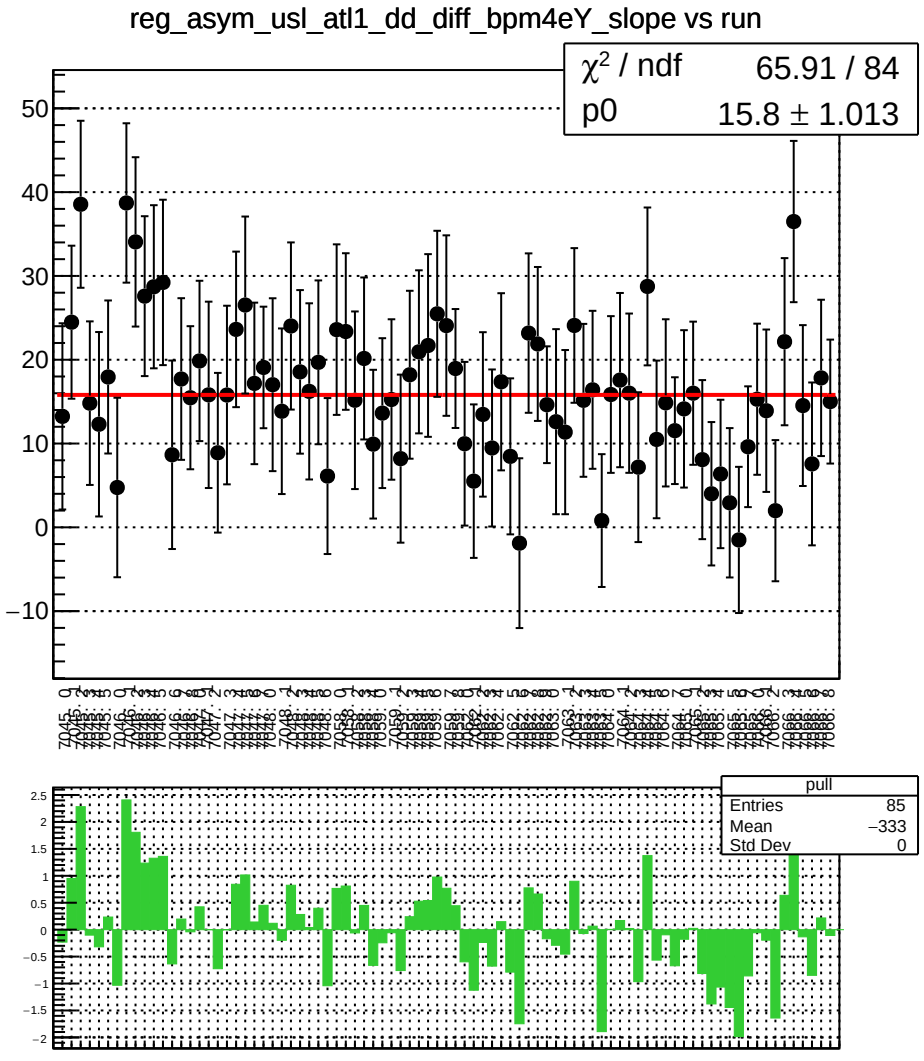

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 81.62 / 84
p0 −33.91 ± 1.413
pull
Entries 85
Mean −147.2
Std Dev 0
pull1D
Entries 85
Mean 0.06072
Std Dev 0.9781

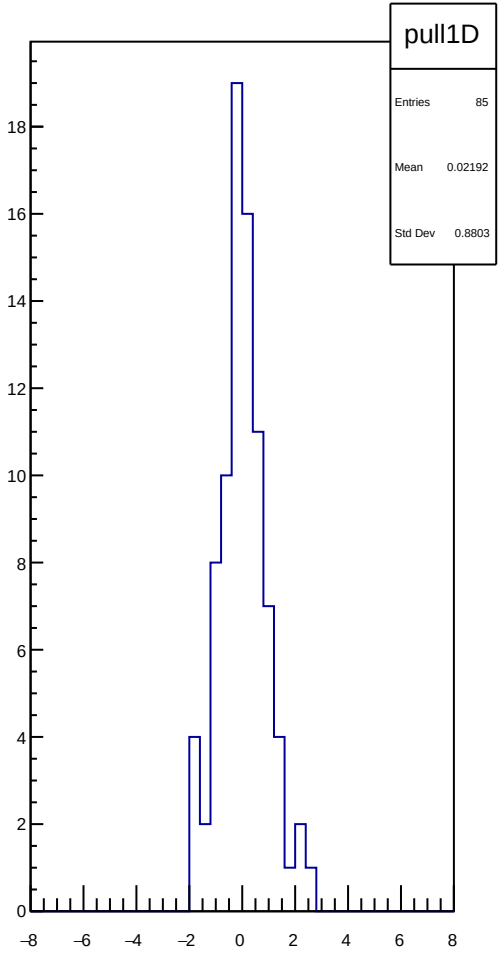

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.61 / 84
p0 −2.236 ± 0.9515
pull
Entries 85
Mean −430.2
Std Dev 0

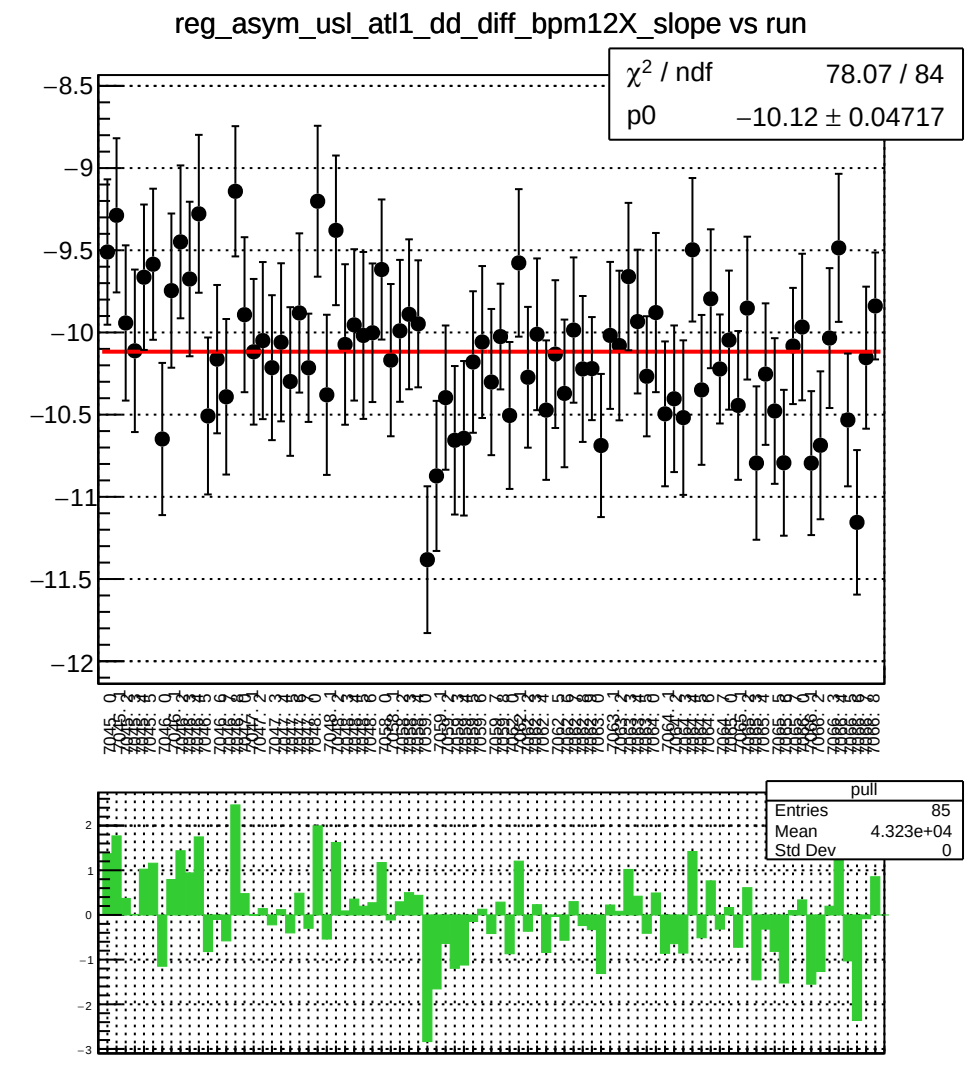

pull1D
Entries 85
Mean −0.01691
Std Dev 0.8649

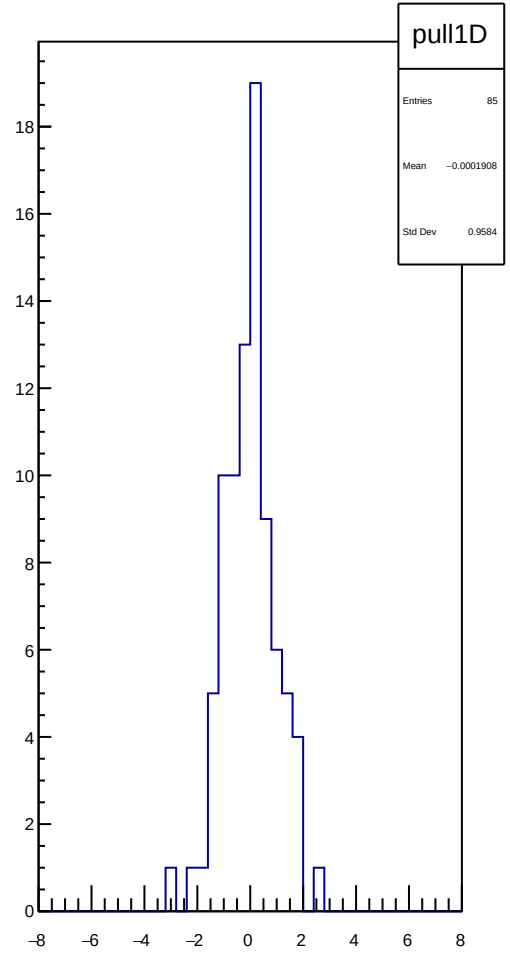

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.07 / 84
p0 −17.01± 1.348
20
0
−20
−40
−60
pull
Entries 85
Mean −198.2
Std Dev 0
2
1
0
−1
−2

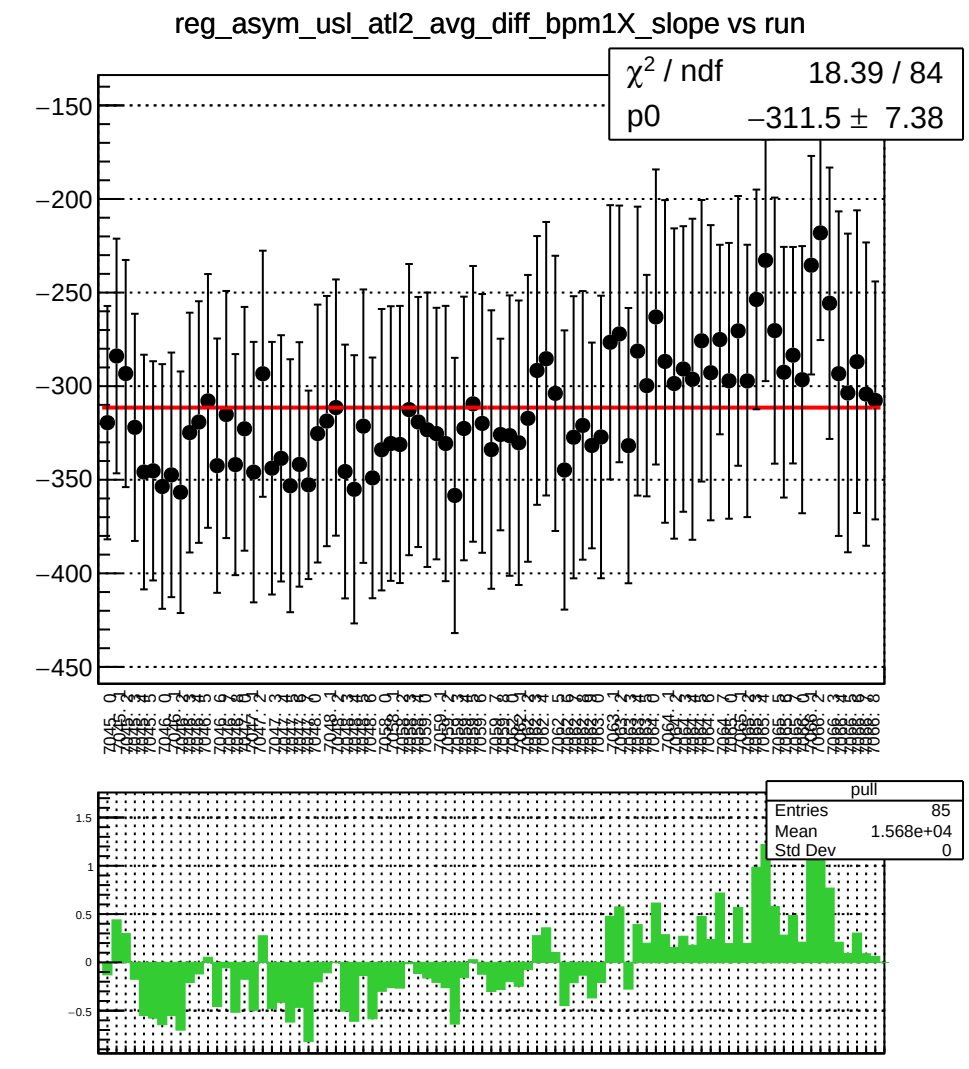

pull1D
Entries 85
Mean −0.05152
Std Dev 0.9991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

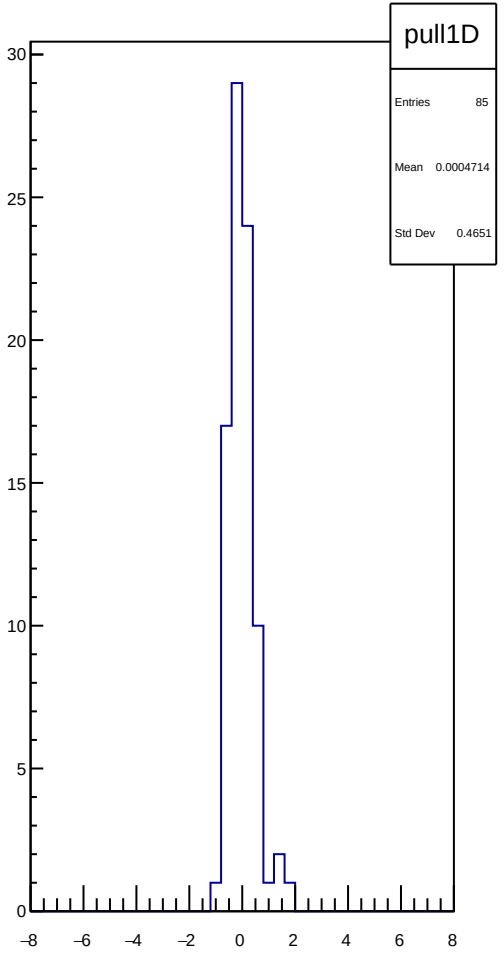

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.91 / 84
p0 15.8 ± 1.013
pull
Entries 85
Mean −333
Std Dev 0

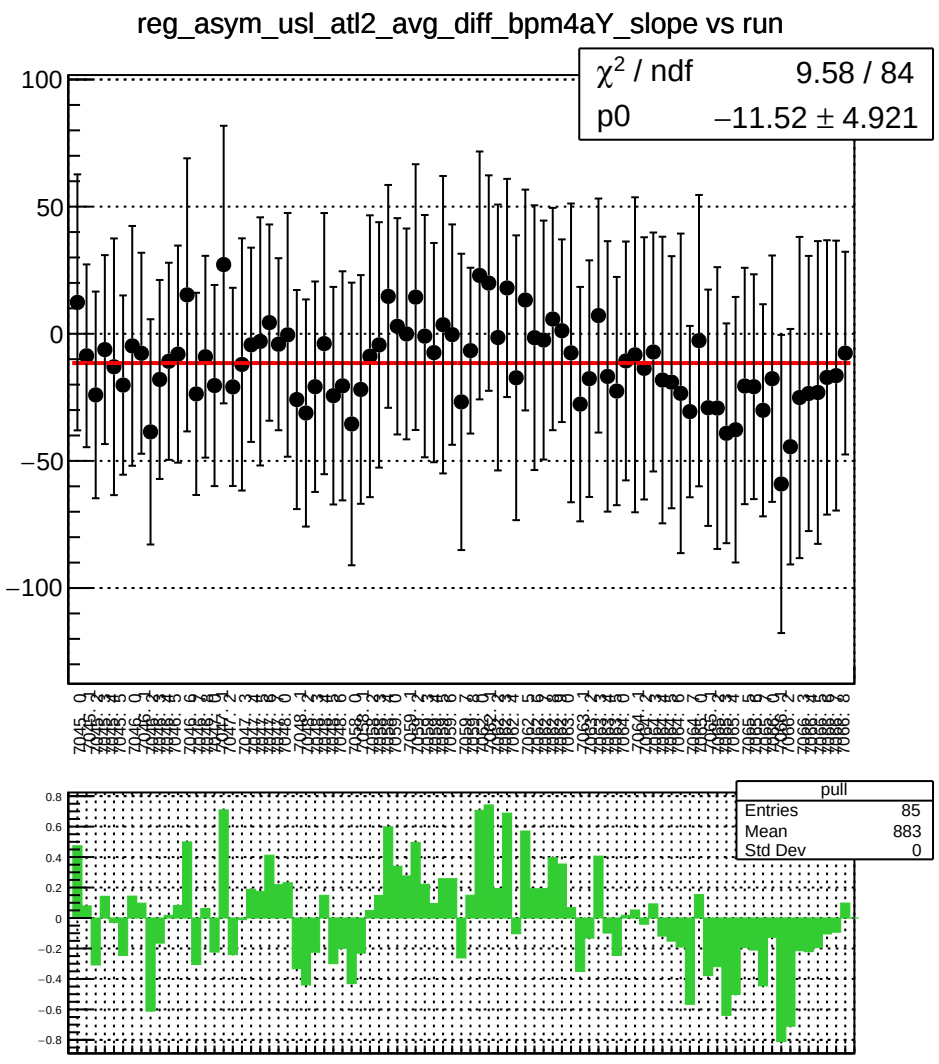

pull1D
Entries 85
Mean 0.02192
Std Dev 0.8803

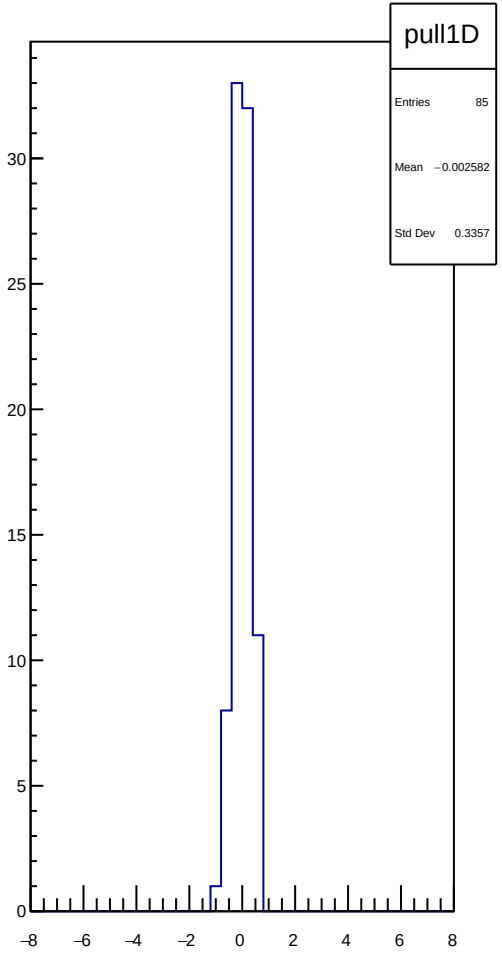

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 78.07 / 84
p0 −10.12 ± 0.04717
pull
Entries 85
Mean 4.323e+04
Std Dev 0

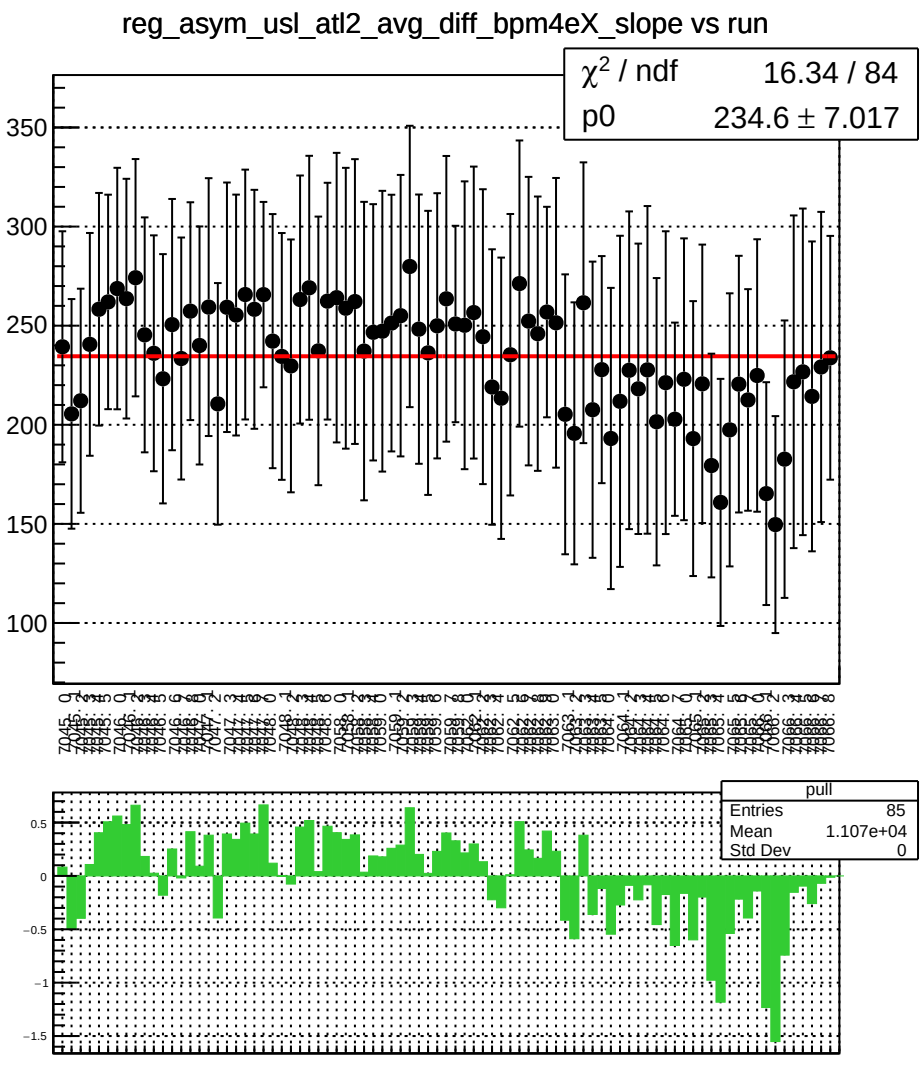

pull1D
Entries 85
Mean −0.0001908
Std Dev 0.9584

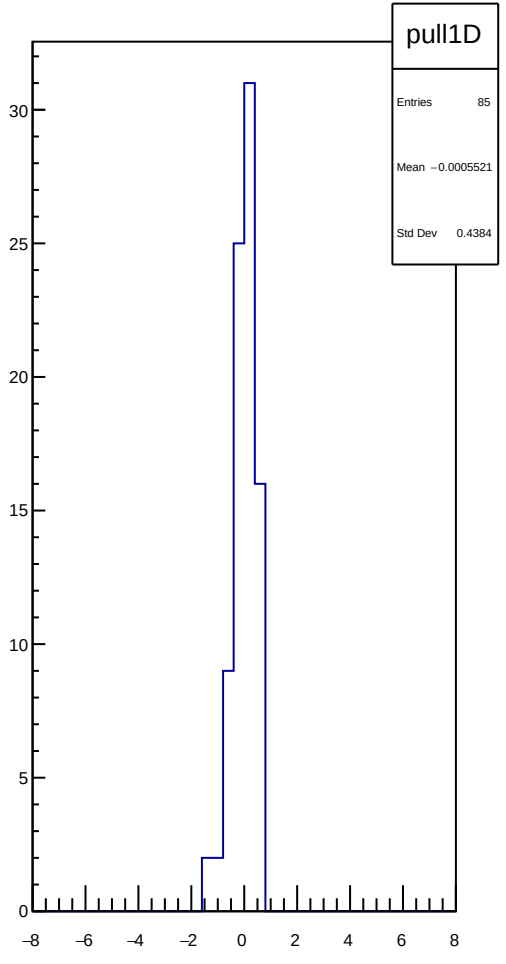

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.39 / 84
p0 −311.5 ± 7.38
pull
Entries 85
Mean 1.568e+04
Std Dev 0

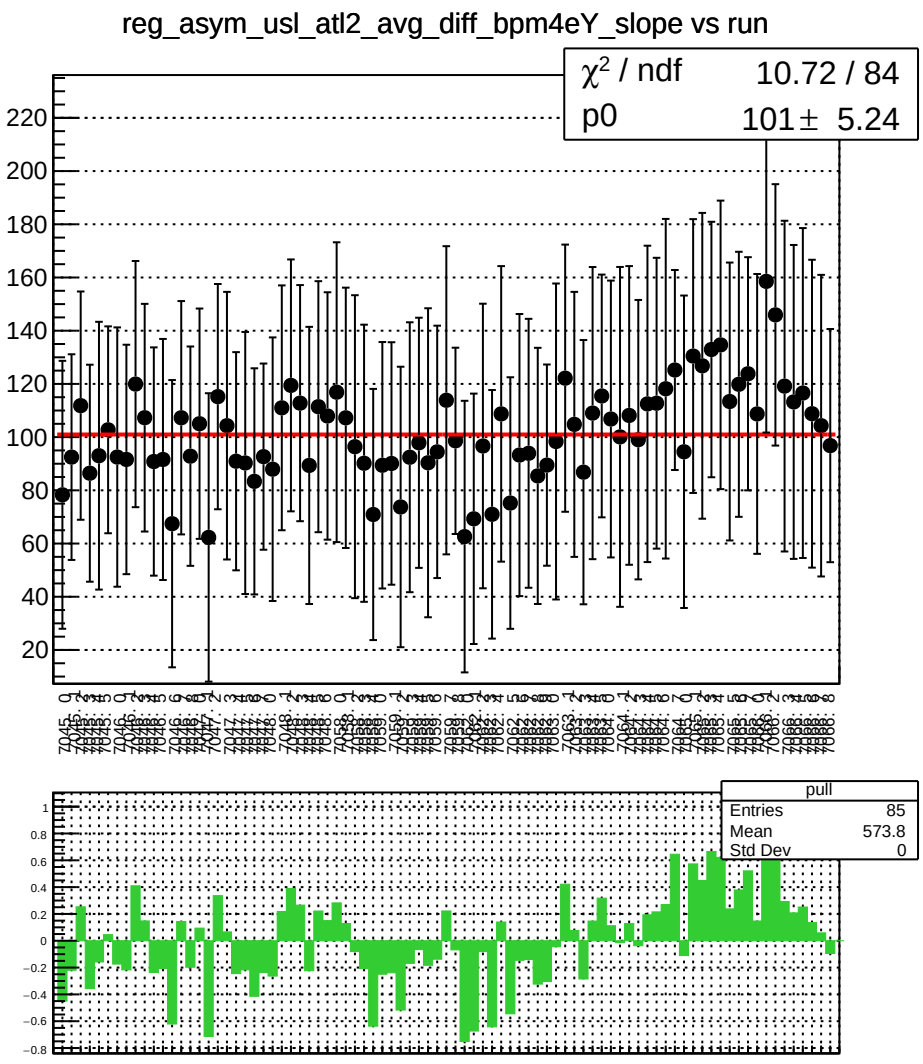

pull1D
Entries 85
Mean 0.0004714
Std Dev 0.4651

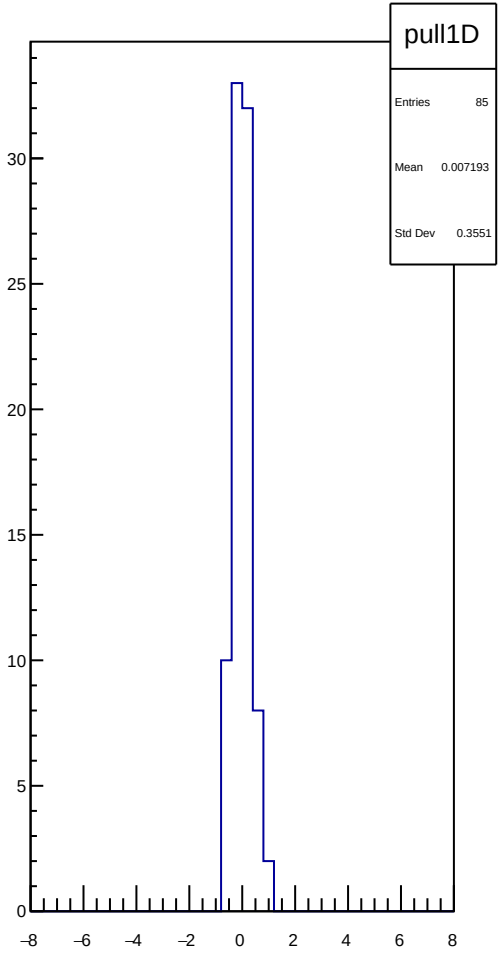

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.58 / 84
p0 −11.52 ± 4.921
pull
Entries 85
Mean 883
Std Dev 0

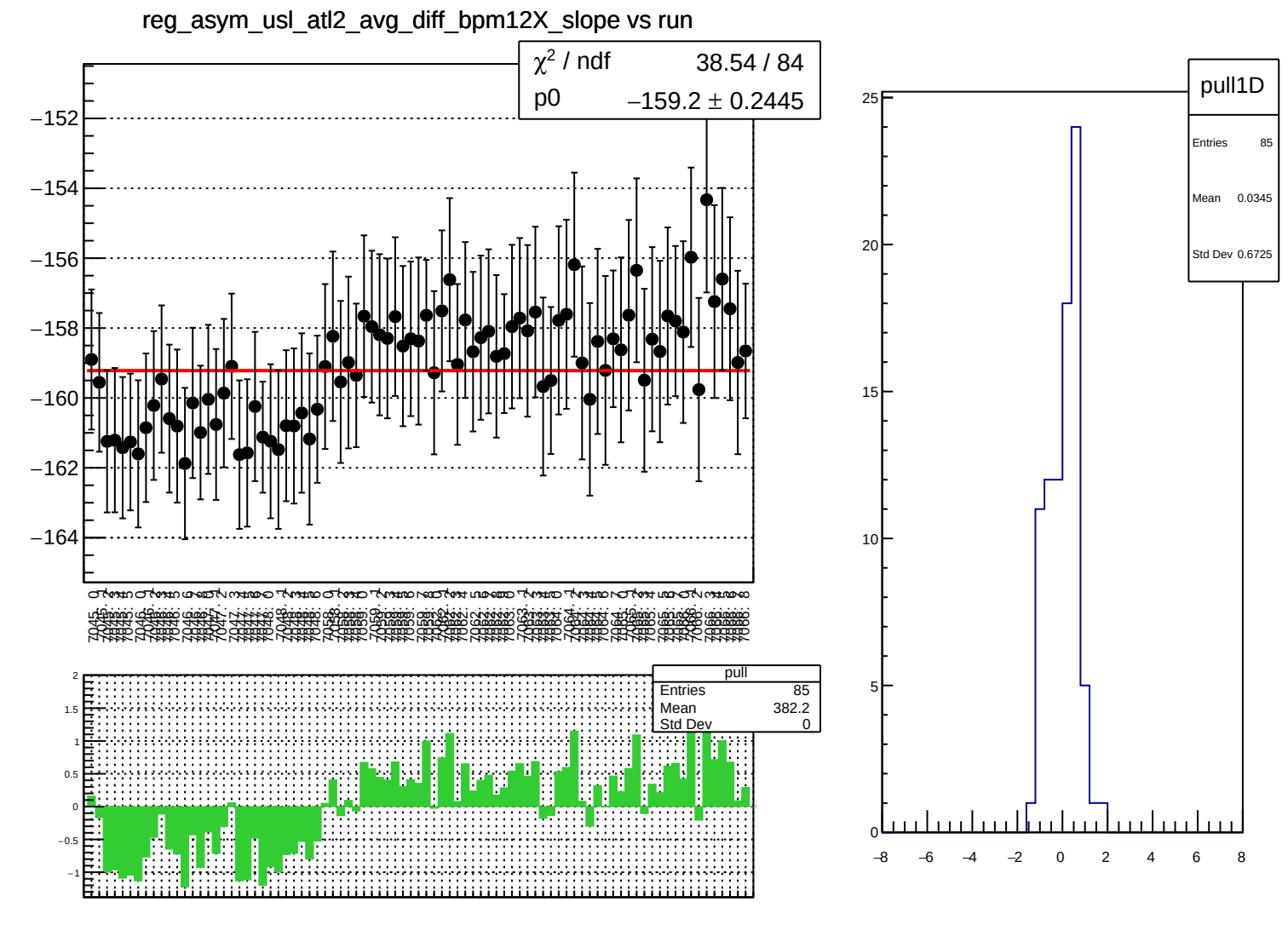

pull1D
Entries 85
Mean −0.002582
Std Dev 0.3357

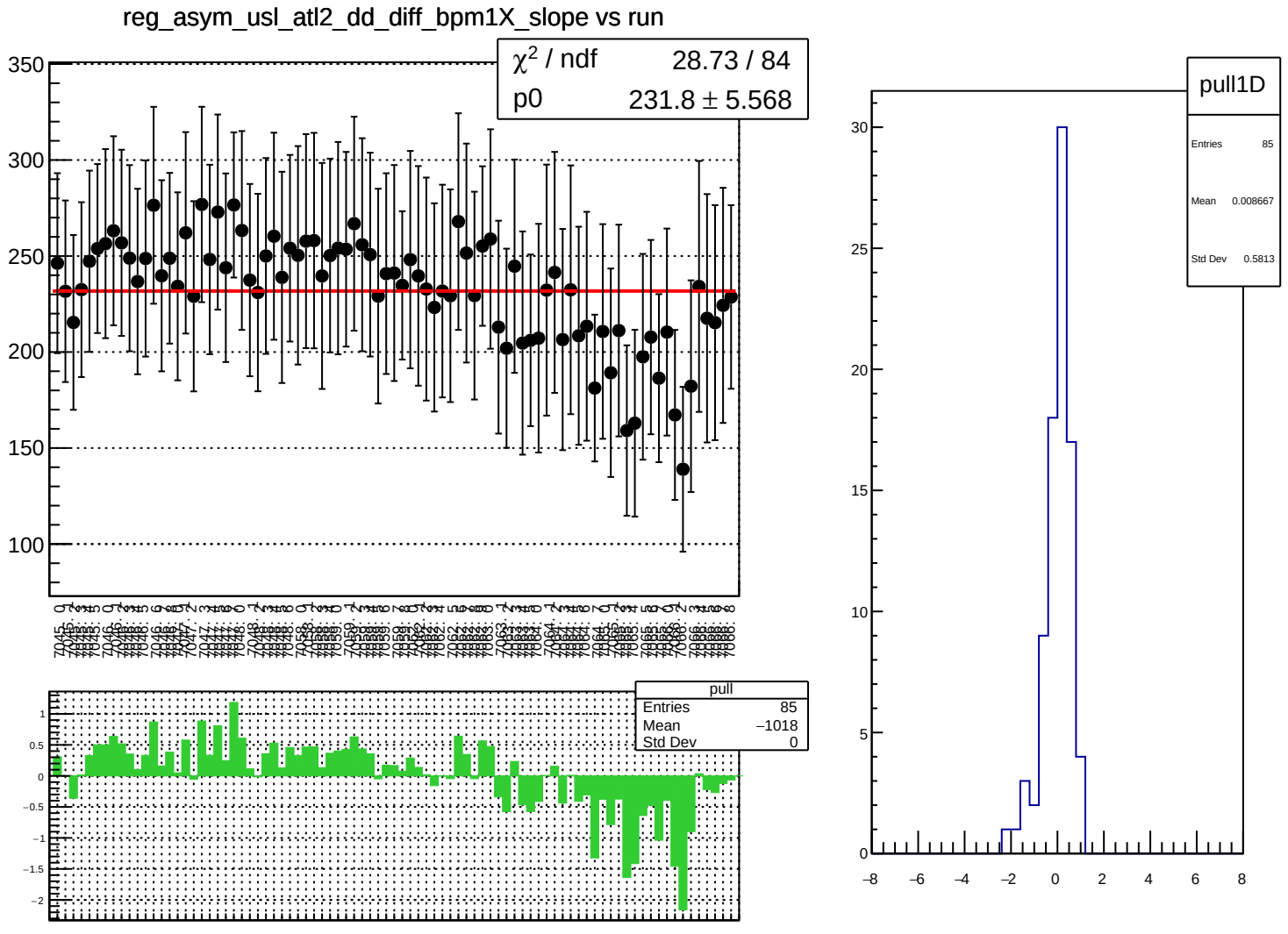

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.34 / 84
p0 234.6 ± 7.017
350
300
250
200
150
100
pull
Entries 85
Mean 1.107e+04
Std Dev 0
0.5
0
−0.5
−1
−1.5

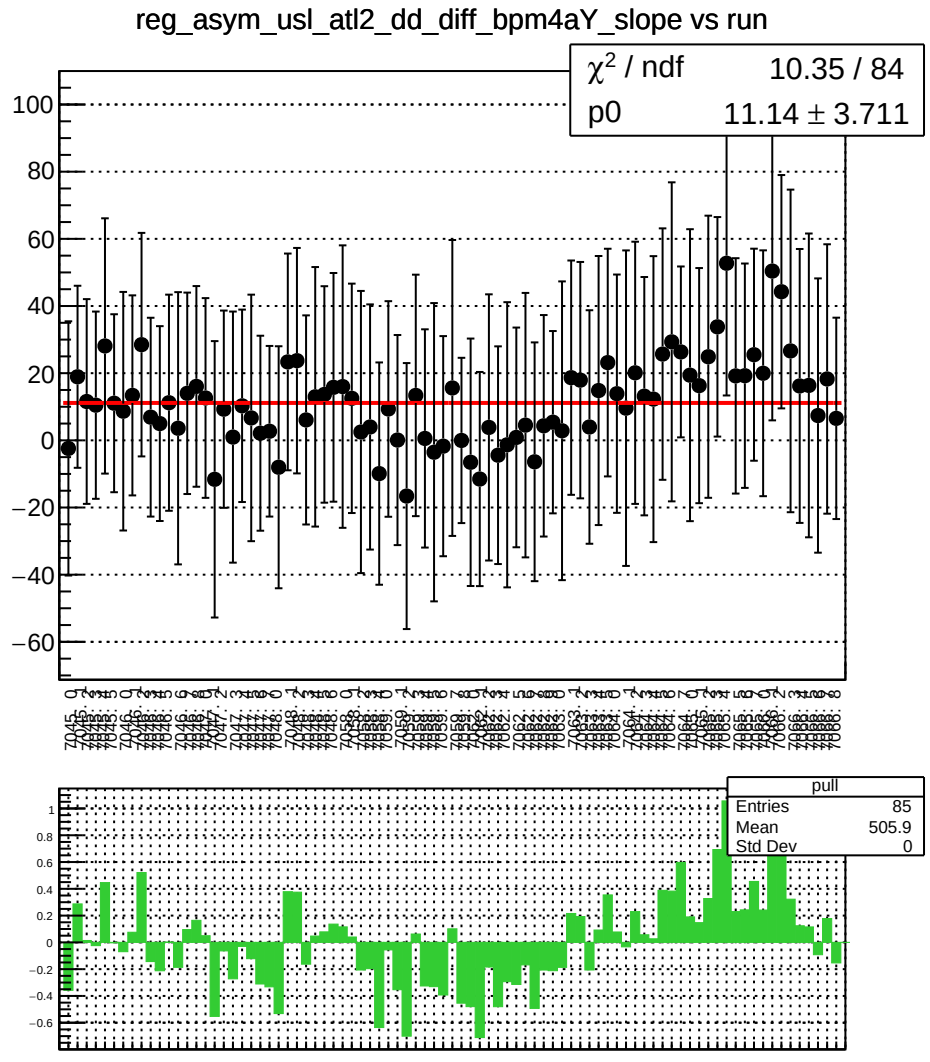

pull1D
Entries 85
Mean −0.0005521
Std Dev 0.4384
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

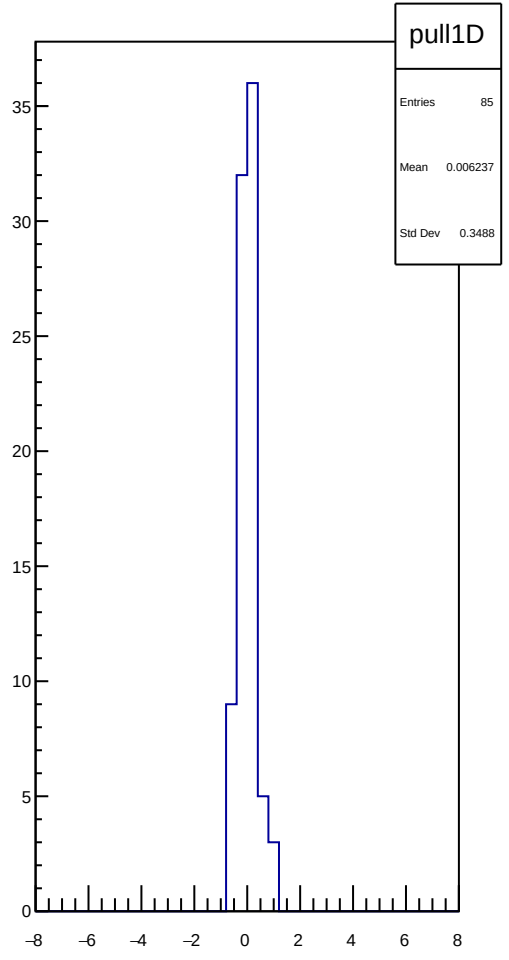

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.72 / 84
p0 101 ± 5.24
pull
Entries 85
Mean 573.8
Std Dev 0

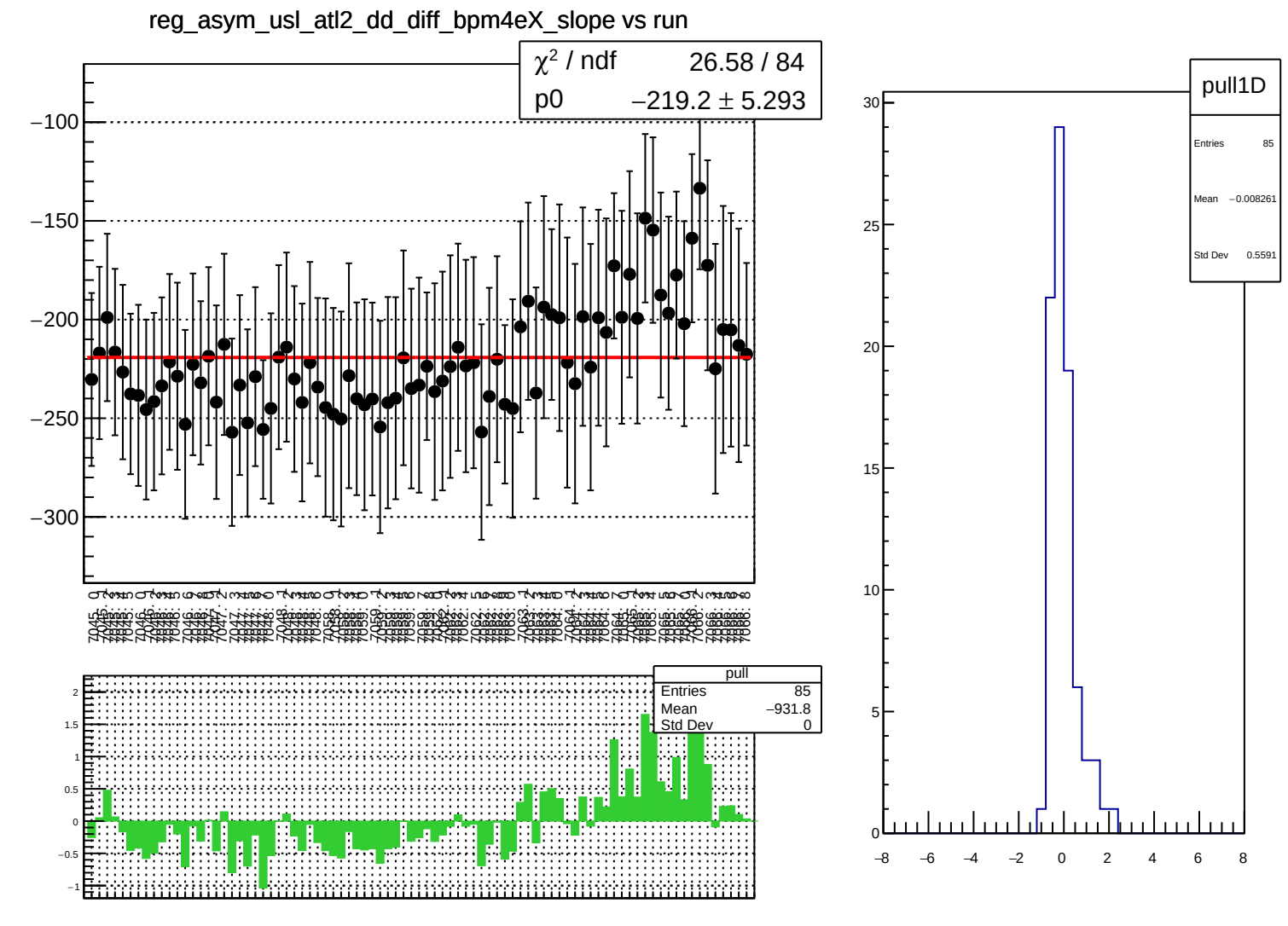

pull1D
Entries 85
Mean 0.007193
Std Dev 0.3551

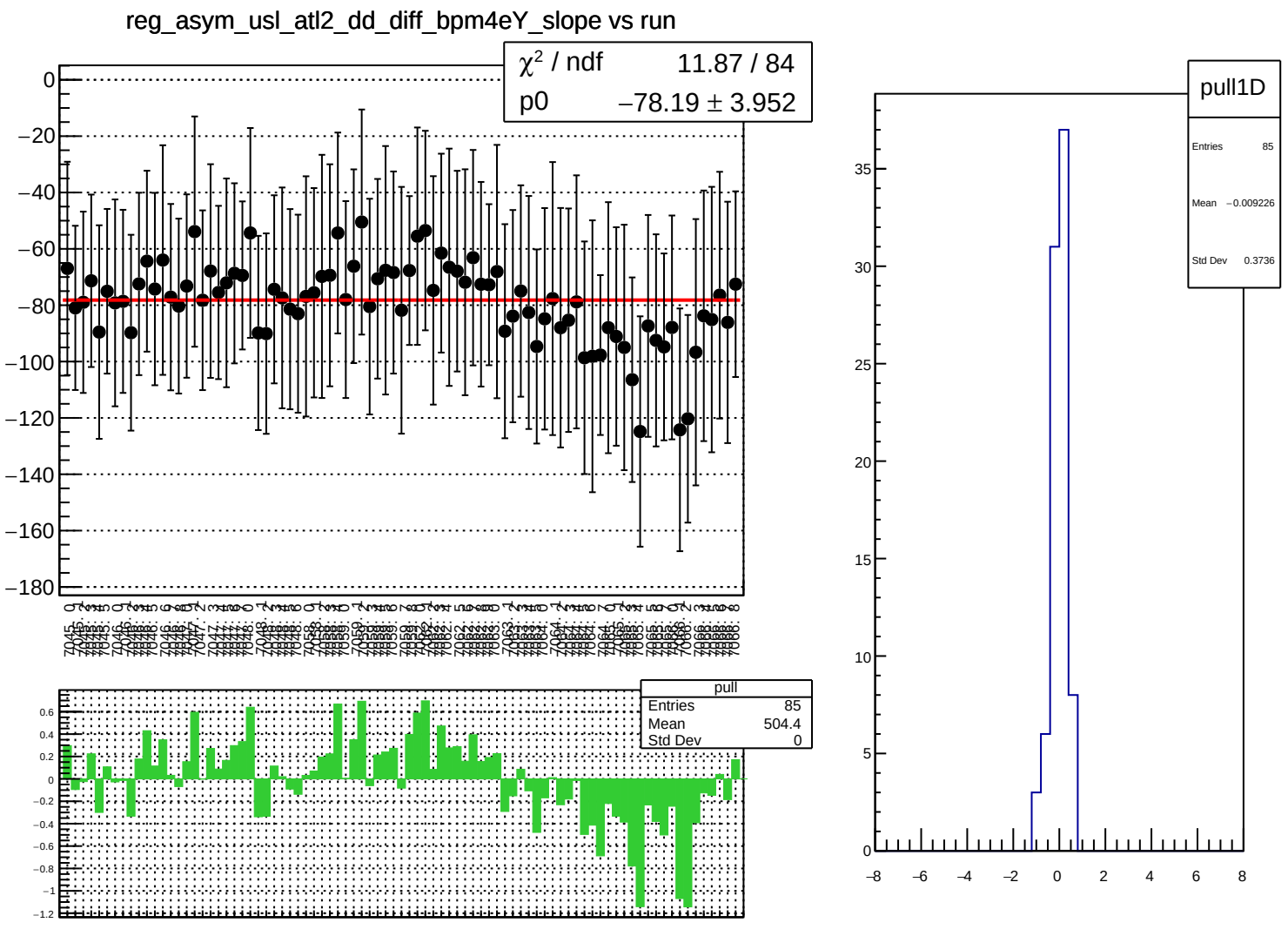

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 38.54 / 84
p0 −159.2 ± 0.2445
−152
−154
−156
−158
−160
−162
−164
pull
Entries 85
Mean 382.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean 0.0345
Std Dev 0.6725
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

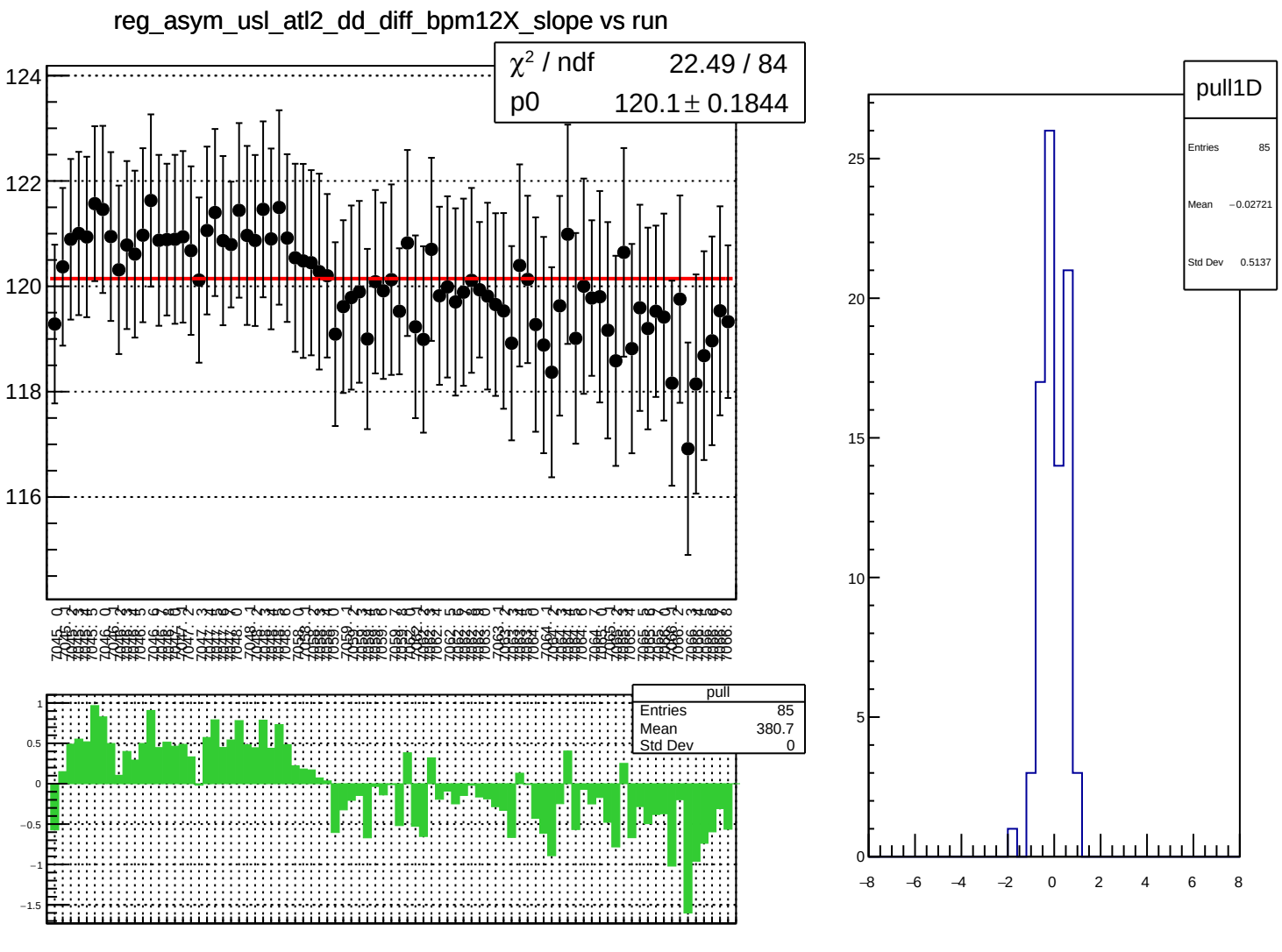

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.73 / 84
p0 231.8 ± 5.568
350
300
250
200
150
100
pull
Entries 85
Mean −1018
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.008667
Std Dev 0.5813
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

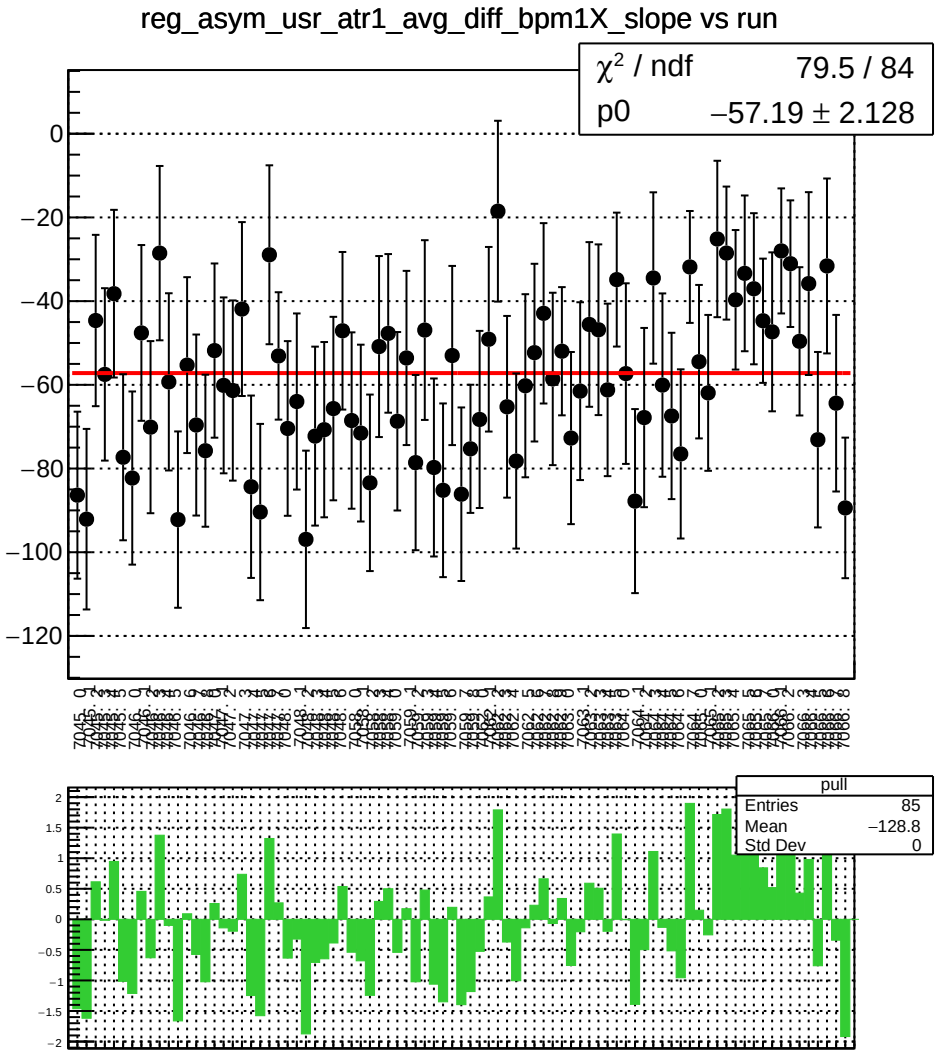

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.35 / 84
p0 11.14 ± 3.711
pull
Entries 85
Mean 505.9
Std Dev 0

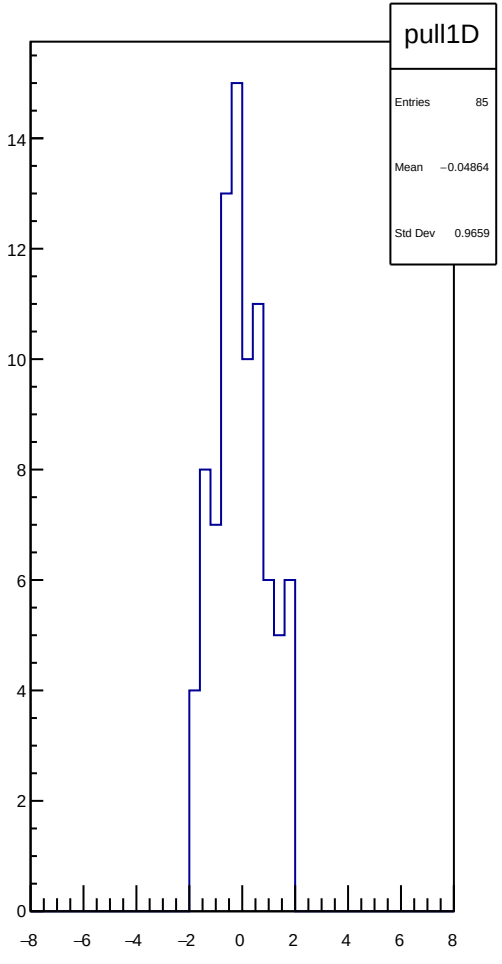

pull1D
Entries 85
Mean 0.006237
Std Dev 0.3488

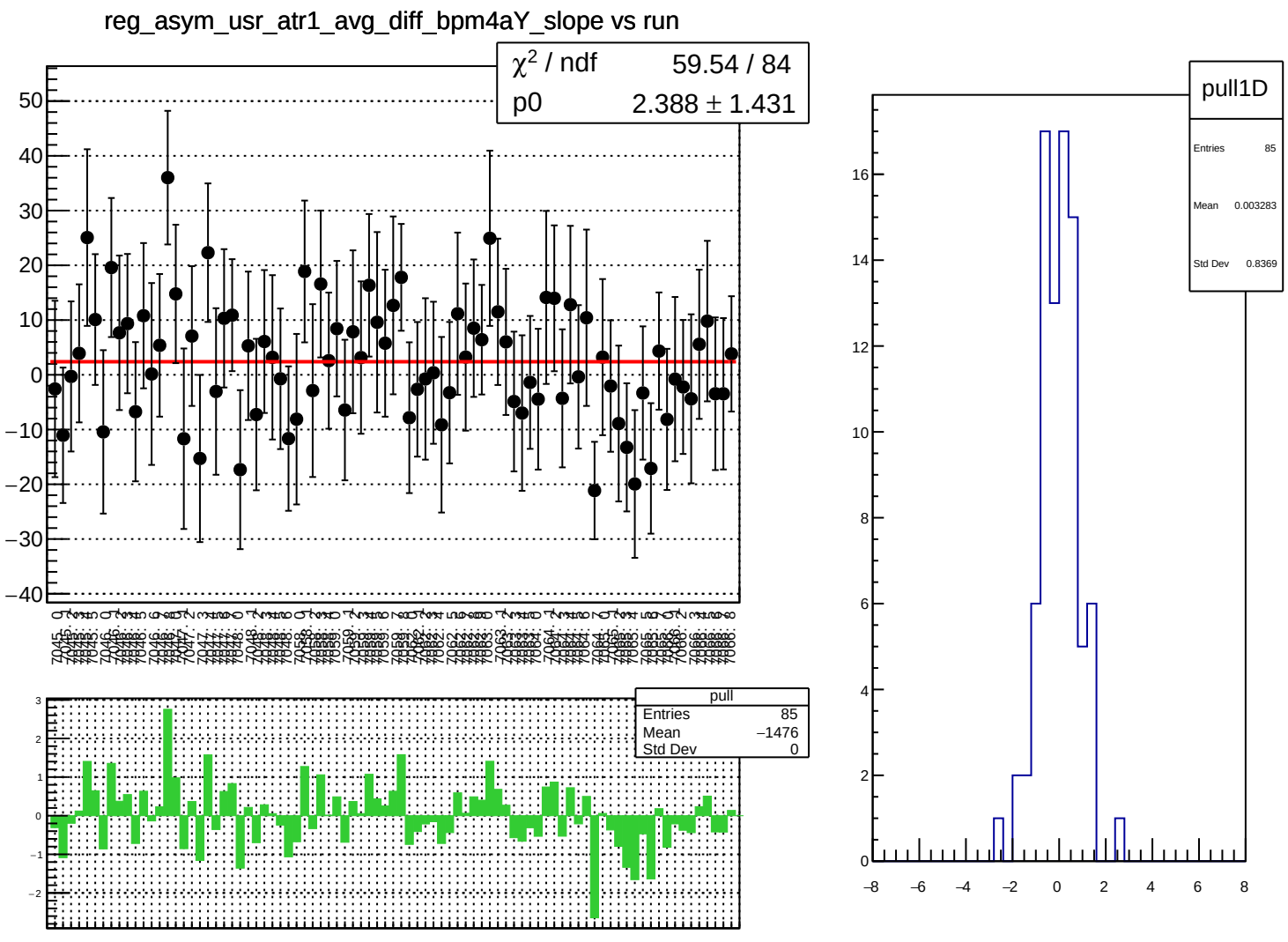

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.58 / 84
p0 −219.2 ± 5.293
−100
−150
−200
−250
−300
pull
Entries 85
Mean −931.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.008261
Std Dev 0.5591
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

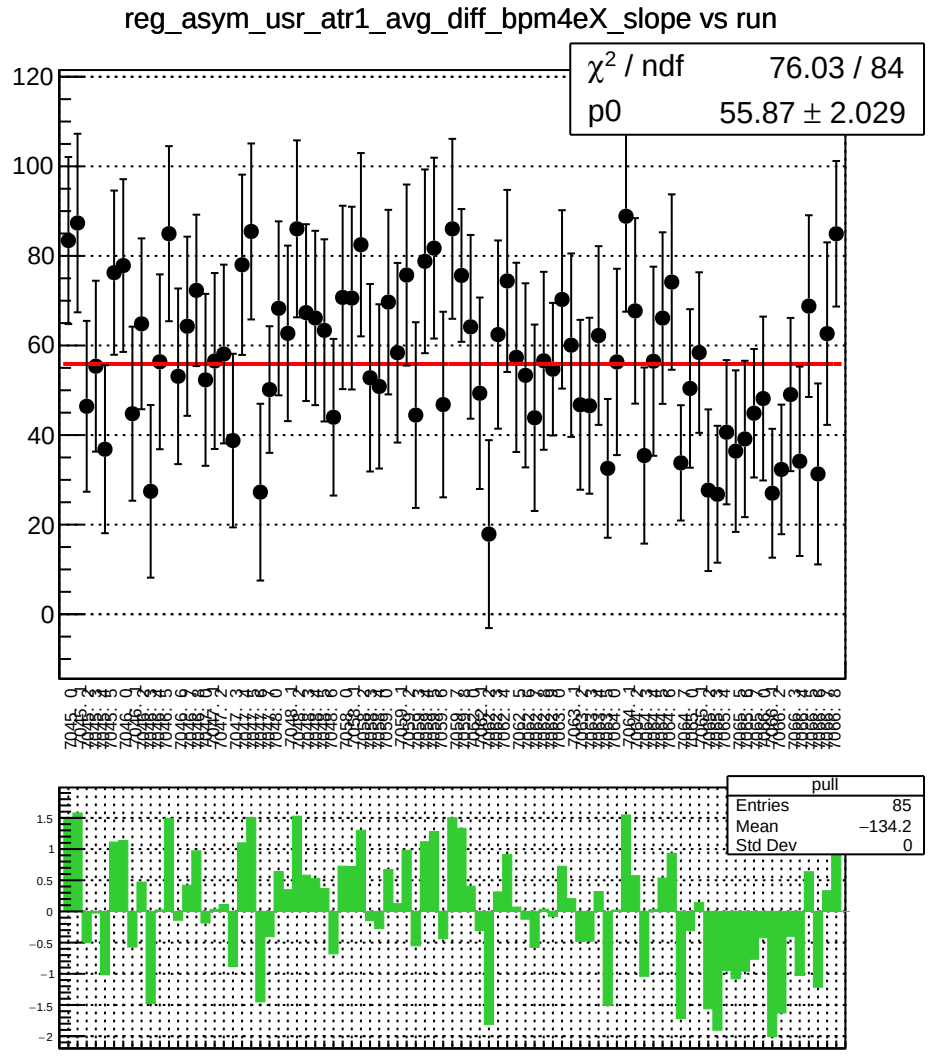

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.87 / 84
p0 −78.19 ± 3.952
pull
Entries 85
Mean 504.4
Std Dev 0
pull1D
Entries 85
Mean −0.009226
Std Dev 0.3736

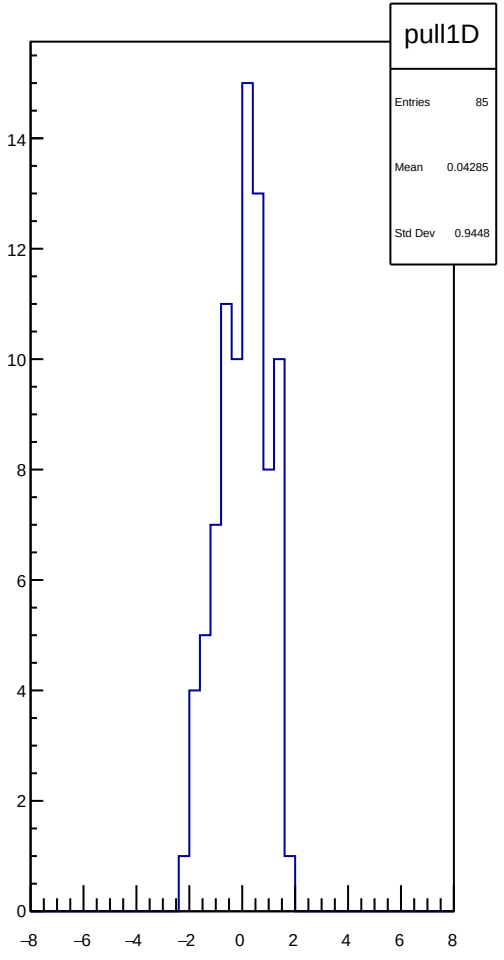

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.49 / 84
p0 120.1 ± 0.1844
124
122
120
118
116
pull
Entries 85
Mean 380.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.02721
Std Dev 0.5137
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

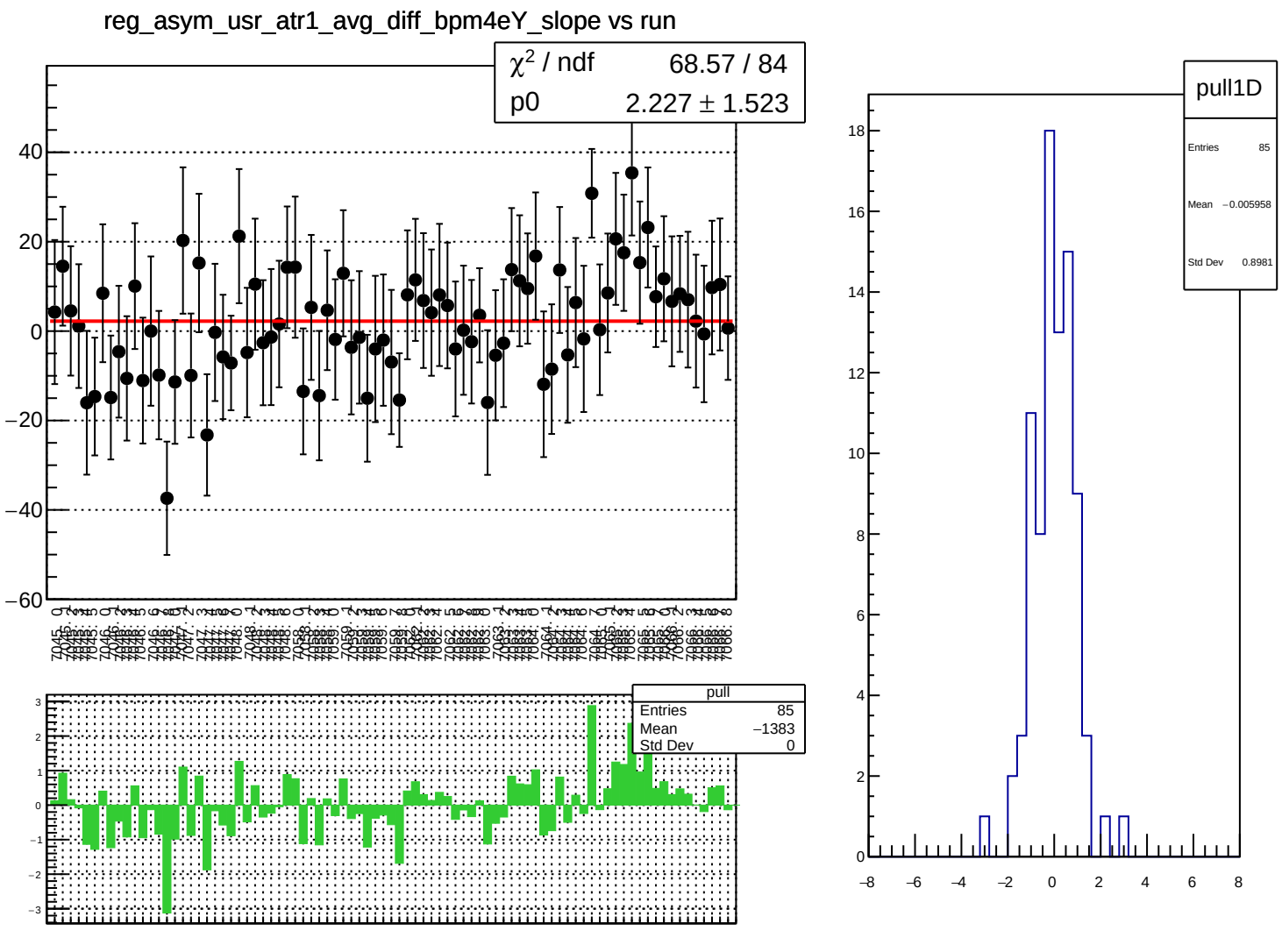

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 79.5 / 84
p0 −57.19 ± 2.128
pull
Entries 85
Mean −128.8
Std Dev 0

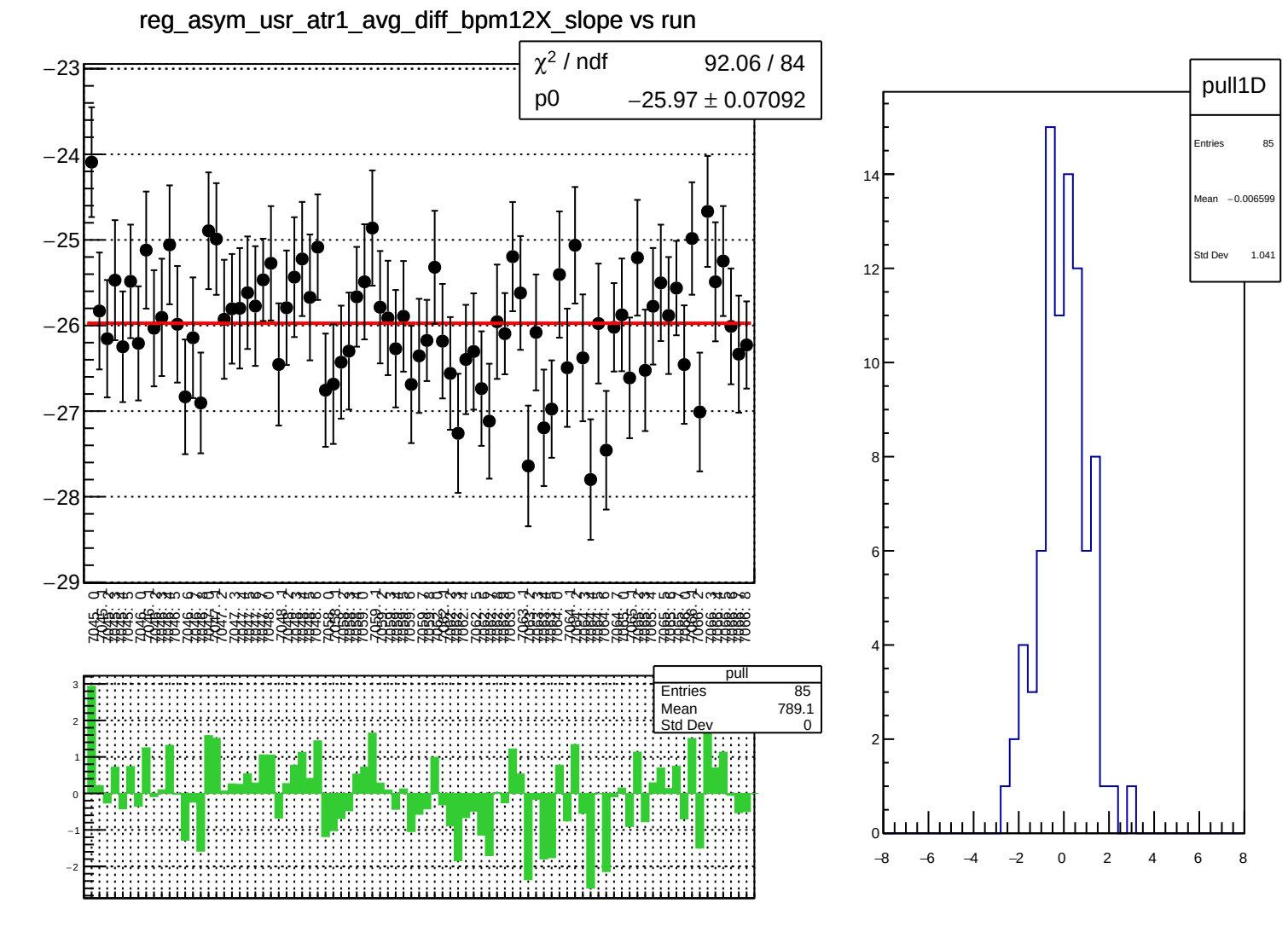

pull1D
Entries 85
Mean −0.04864
Std Dev 0.9659

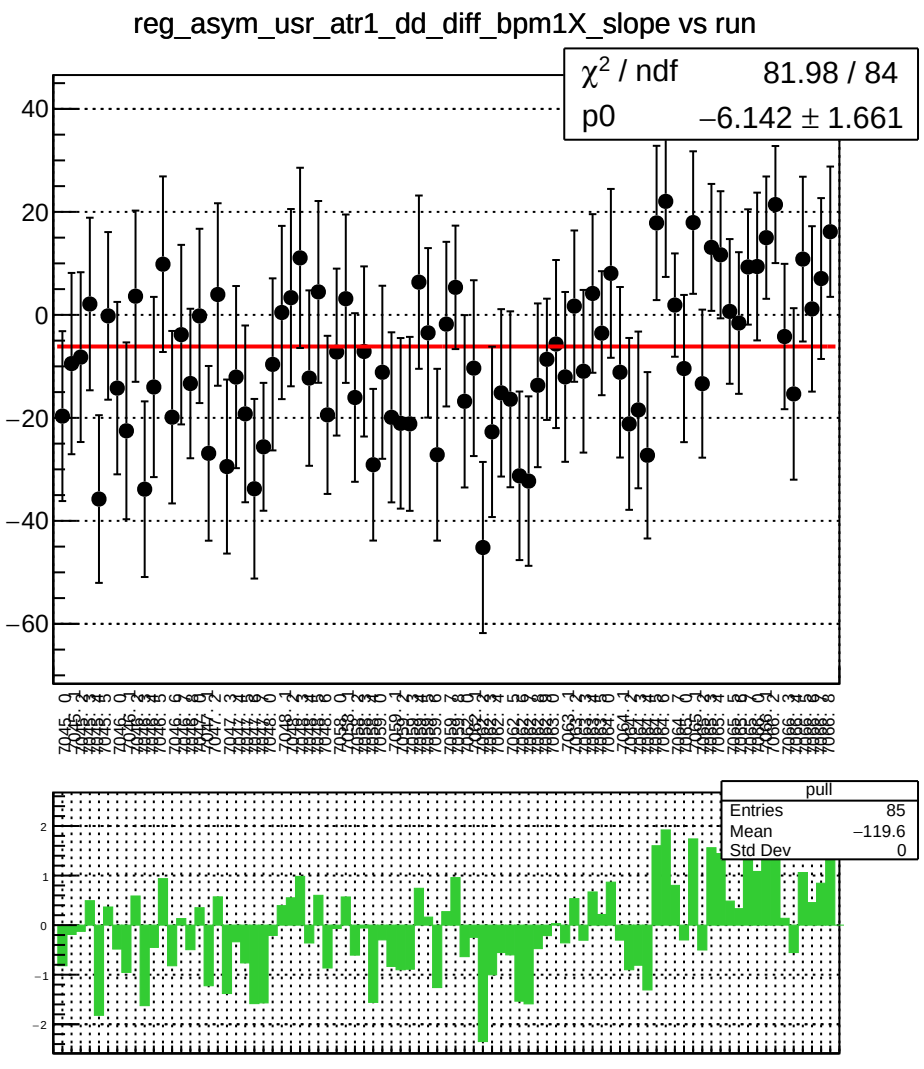

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.54 / 84
p0 2.388 ± 1.431
pull
Entries 85
Mean −1476
Std Dev 0
pull1D
Entries 85
Mean 0.003283
Std Dev 0.8369

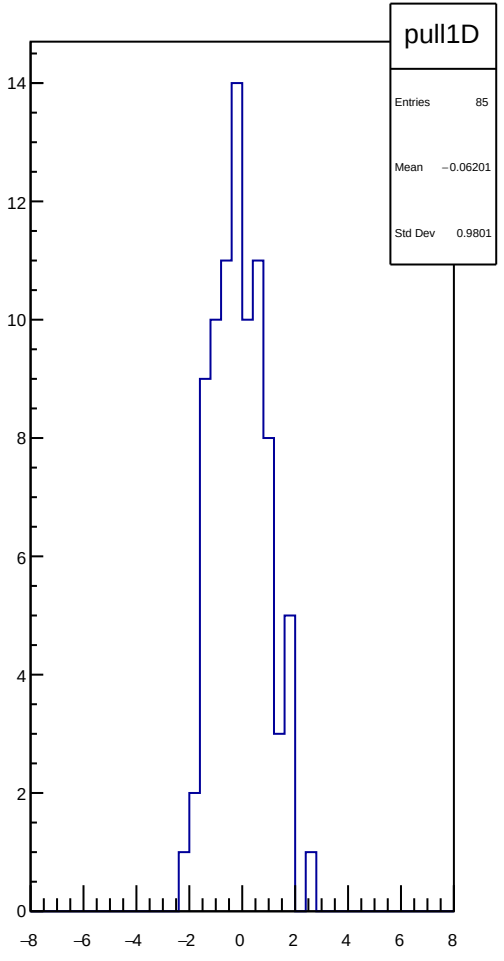

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.03 / 84
p0 55.87 ± 2.029
pull
Entries 85
Mean −134.2
Std Dev 0

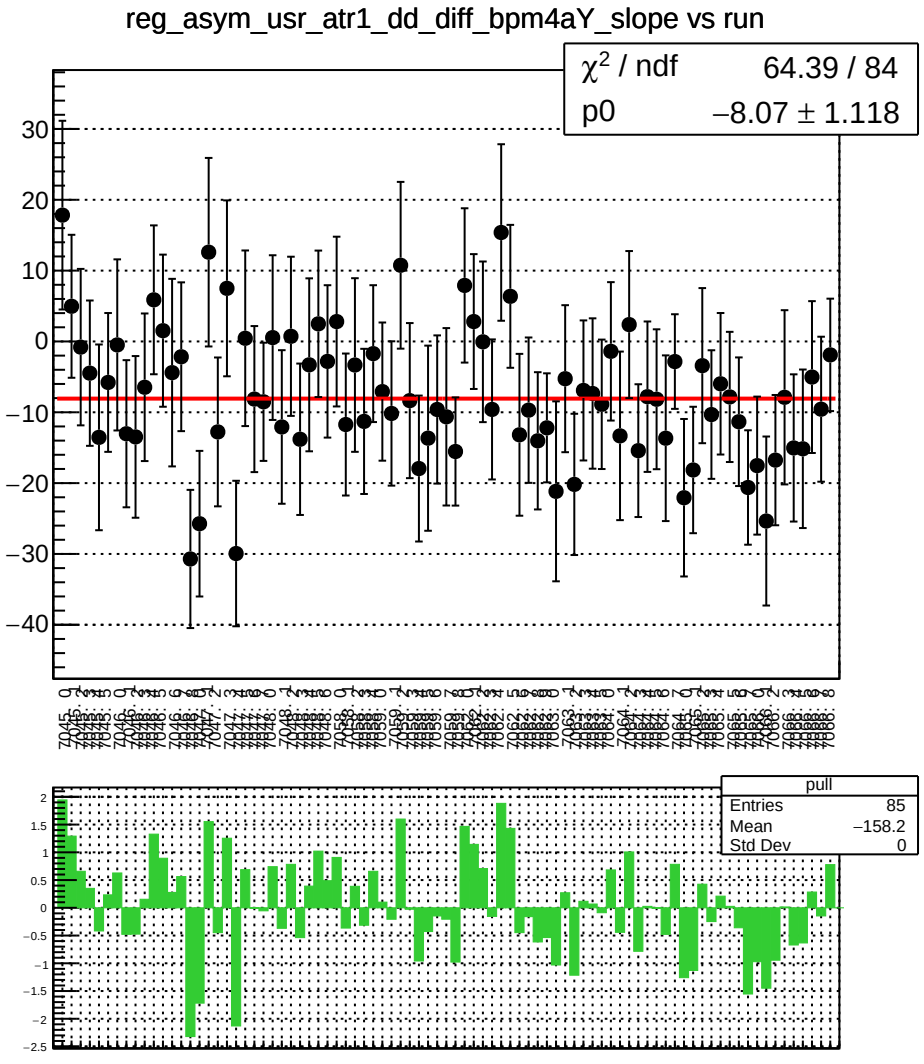

pull1D
Entries 85
Mean 0.04285
Std Dev 0.9448

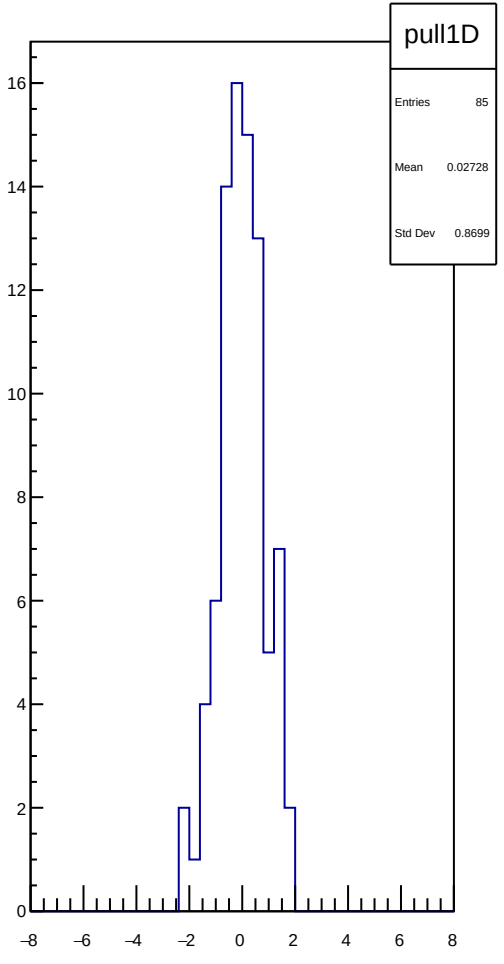

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.57 / 84
p0 2.227 ± 1.523
pull
Entries 85
Mean −1383
Std Dev 0
pull1D
Entries 85
Mean −0.005958
Std Dev 0.8981

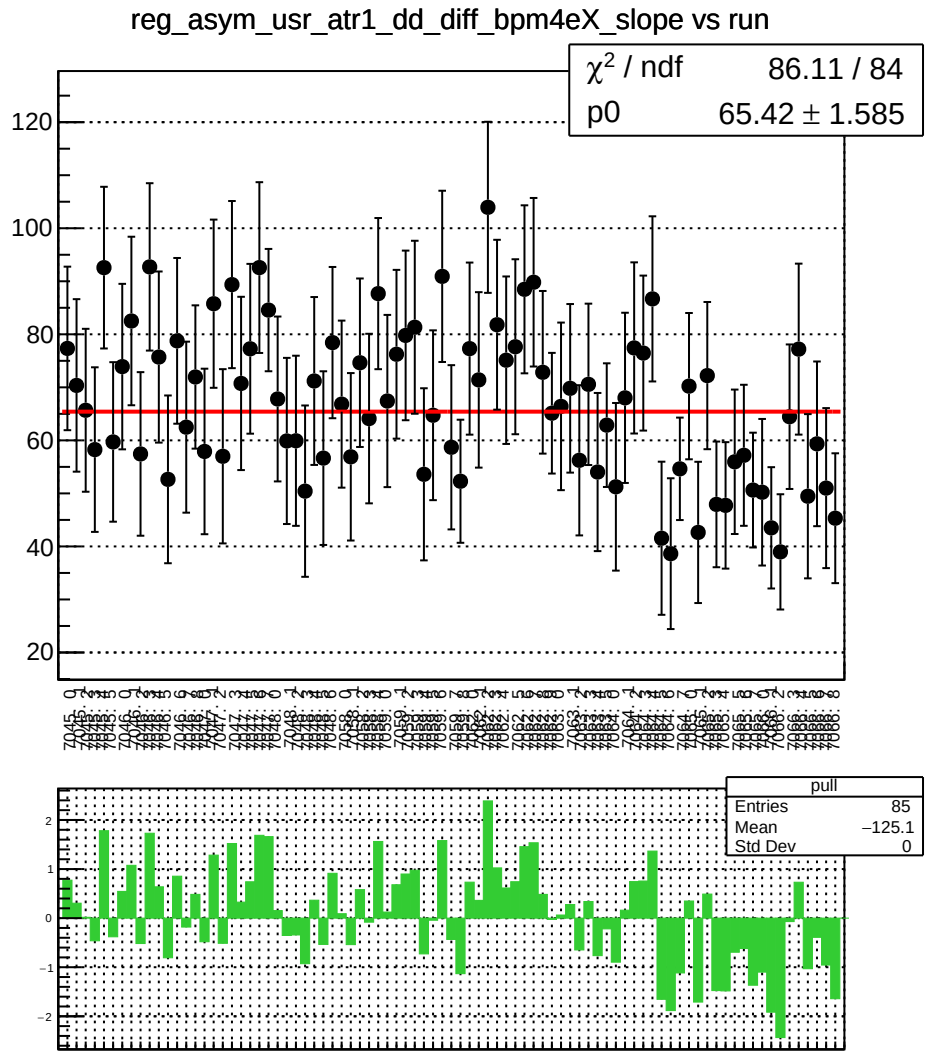

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 92.06 / 84
p0 −25.97 ± 0.07092
pull
Entries 85
Mean 789.1
Std Dev 0
pull1D
Entries 85
Mean −0.006599
Std Dev 1.041

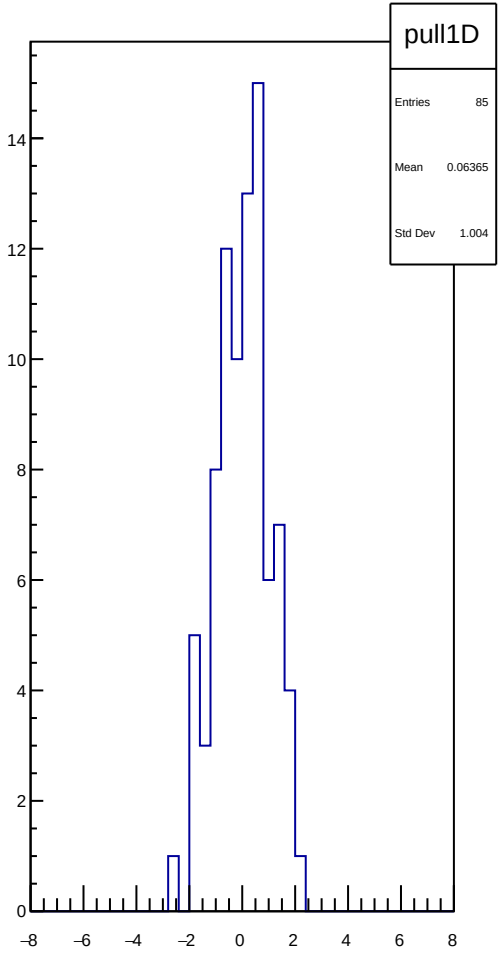

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 81.98 / 84
p0 −6.142 ± 1.661
pull
Entries 85
Mean −119.6
Std Dev 0

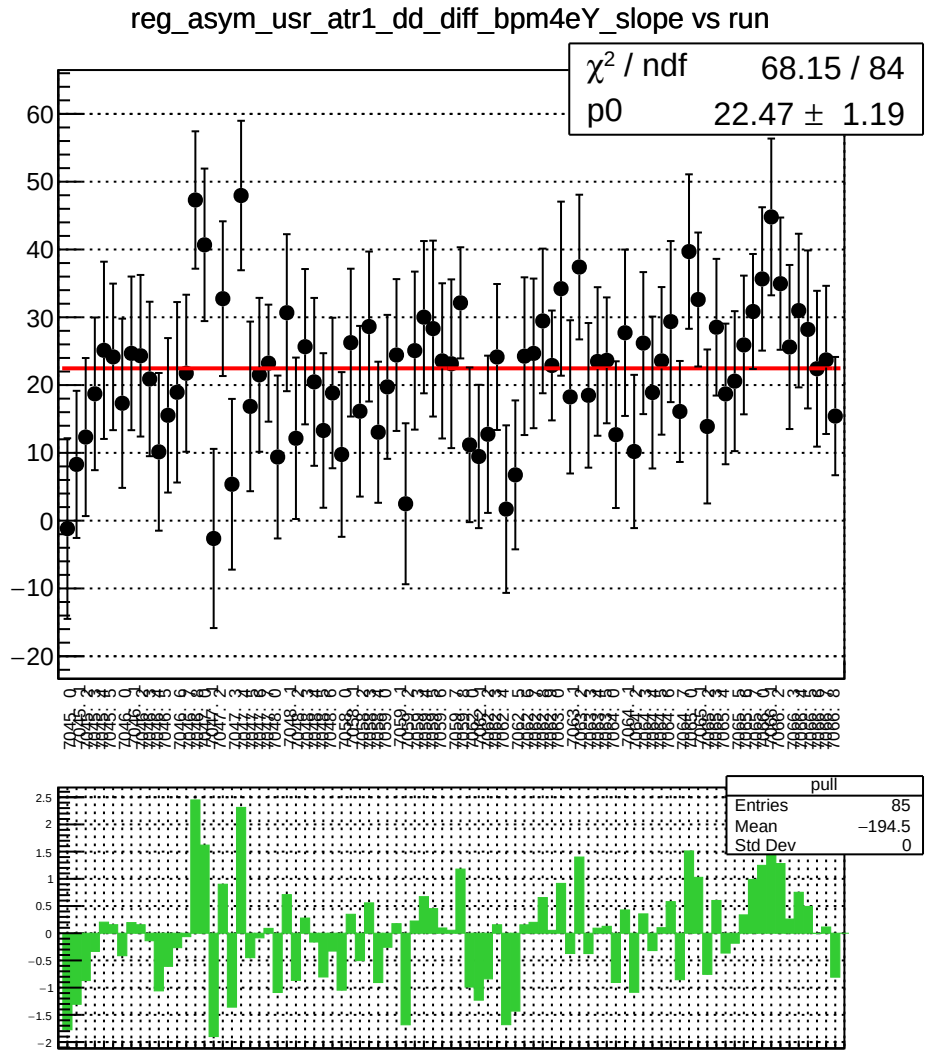

pull1D
Entries 85
Mean −0.06201
Std Dev 0.9801

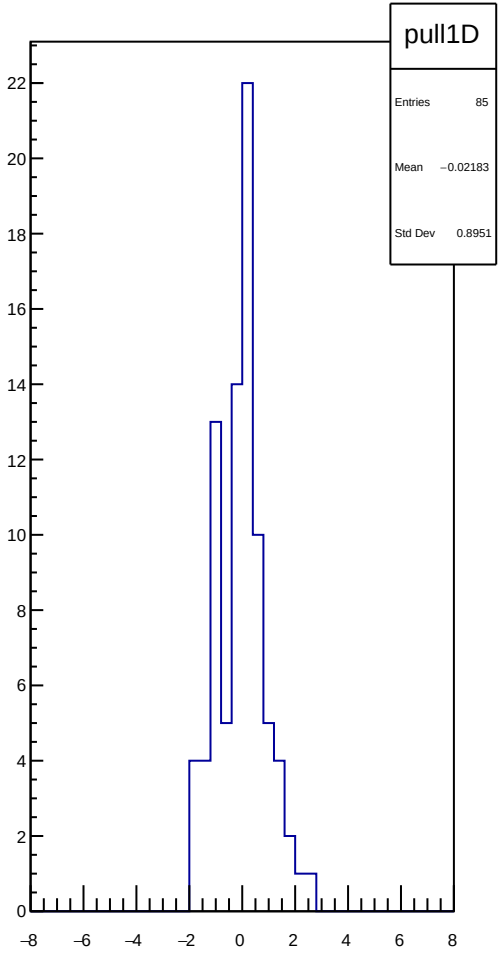

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 64.39 / 84
p0 −8.07 ± 1.118
pull
Entries 85
Mean −158.2
Std Dev 0

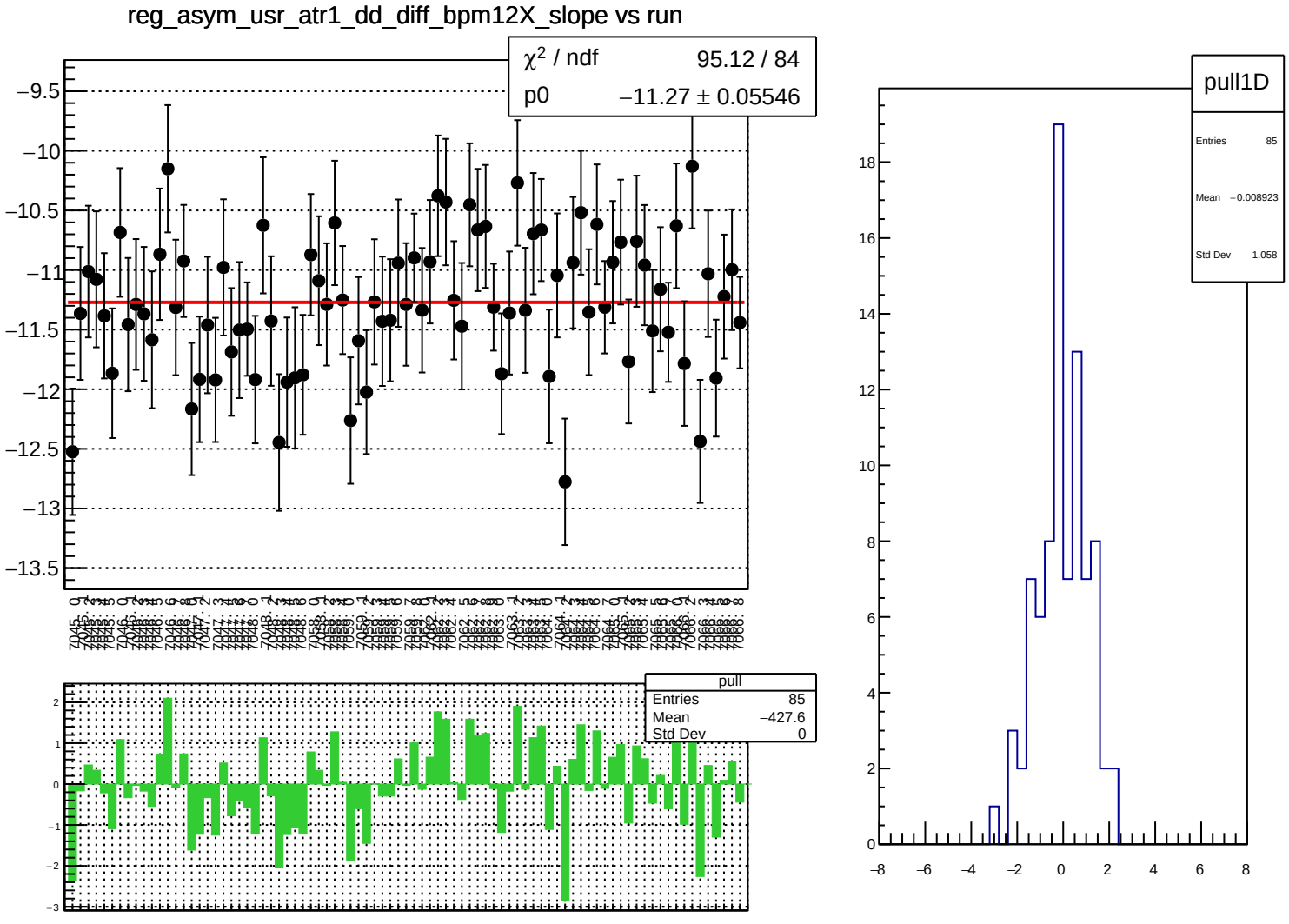

pull1D
Entries 85
Mean 0.02728
Std Dev 0.8699

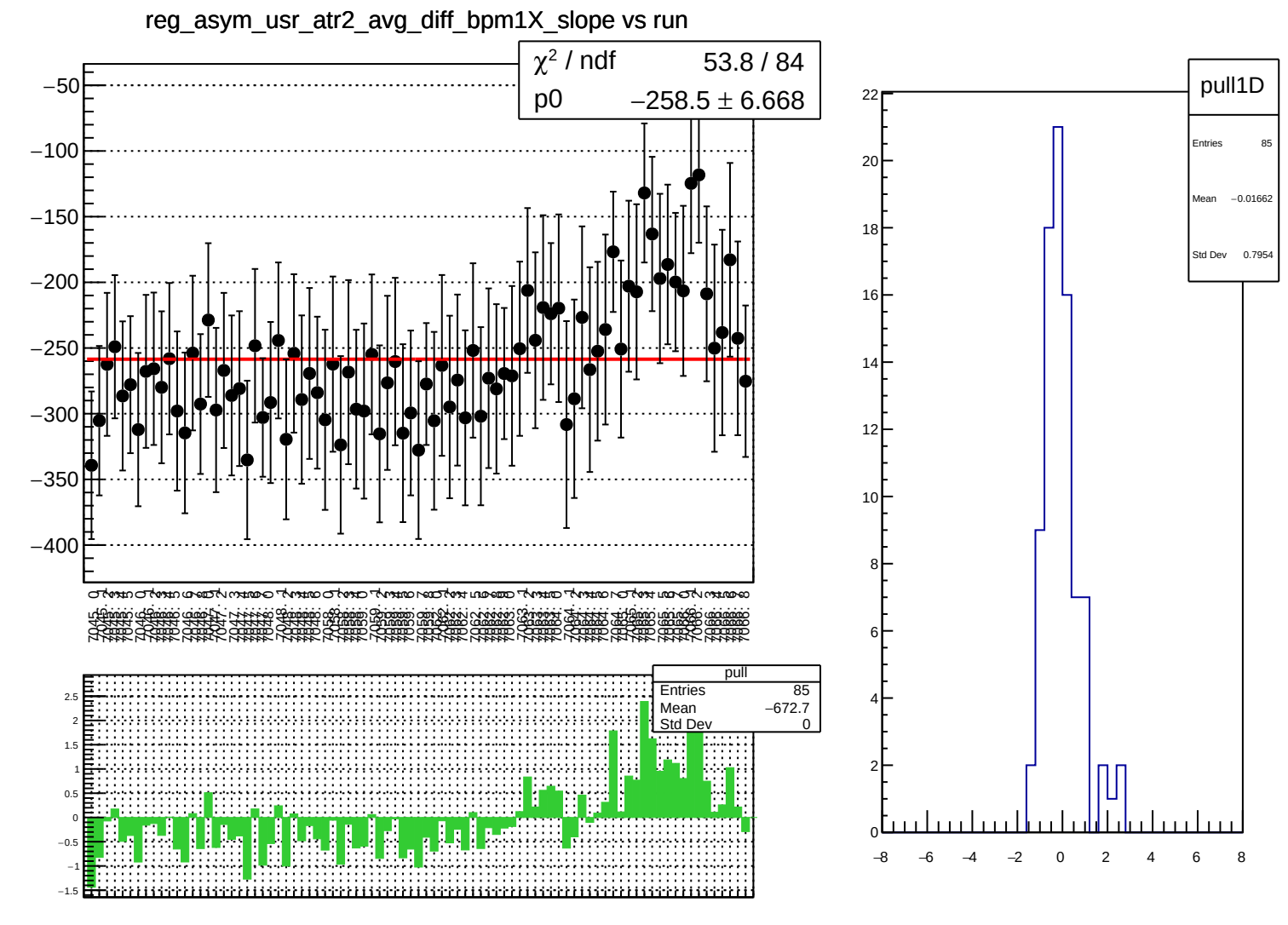

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.11 / 84
p0 65.42 ± 1.585
pull
Entries 85
Mean −125.1
Std Dev 0

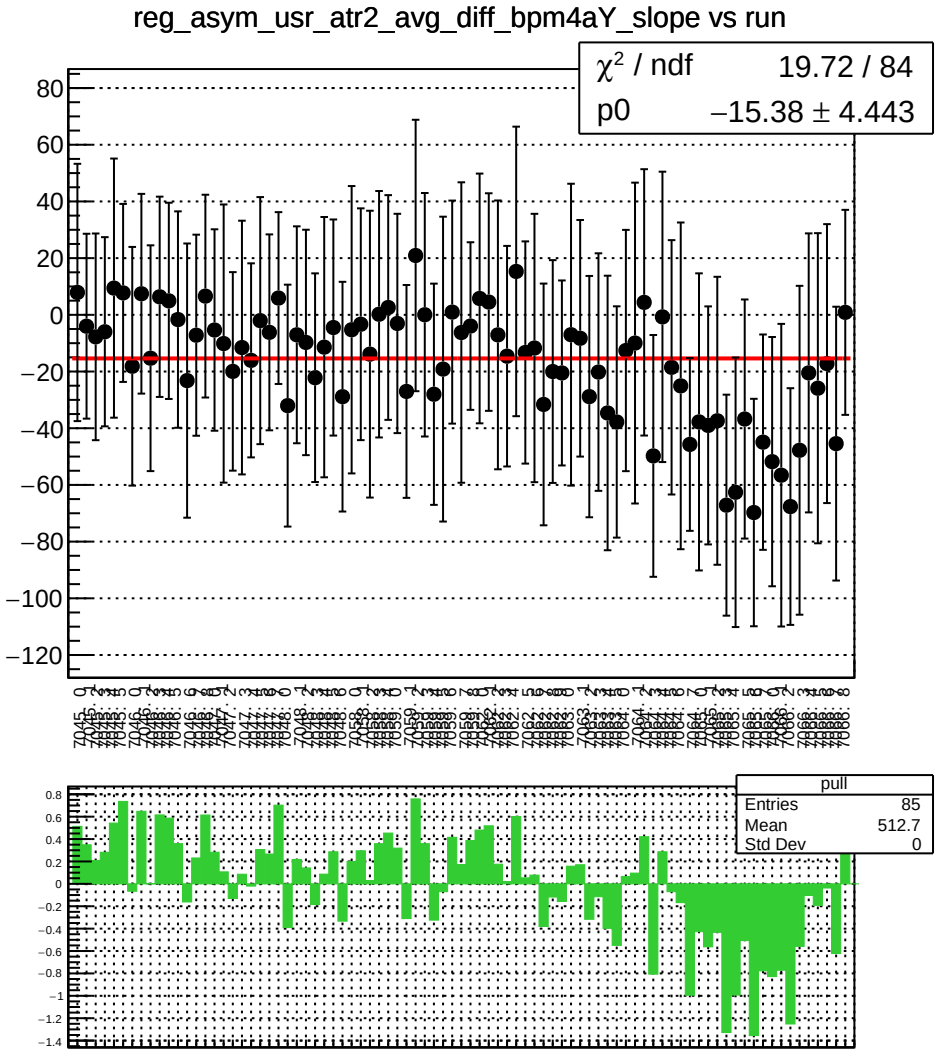

pull1D
Entries 85
Mean 0.06365
Std Dev 1.004

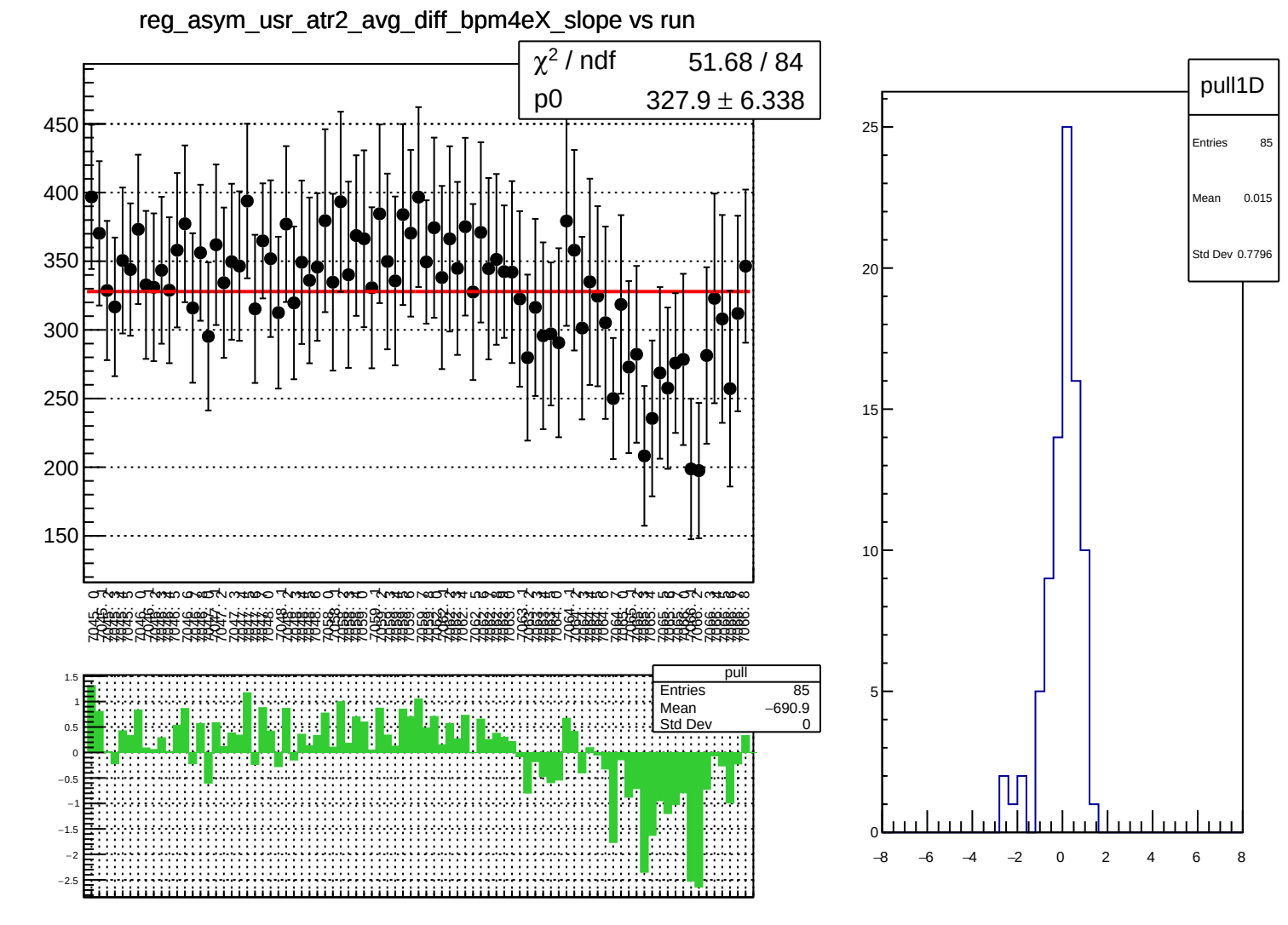

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.15 / 84
p0 22.47 ± 1.19
pull
Entries 85
Mean −194.5
Std Dev 0

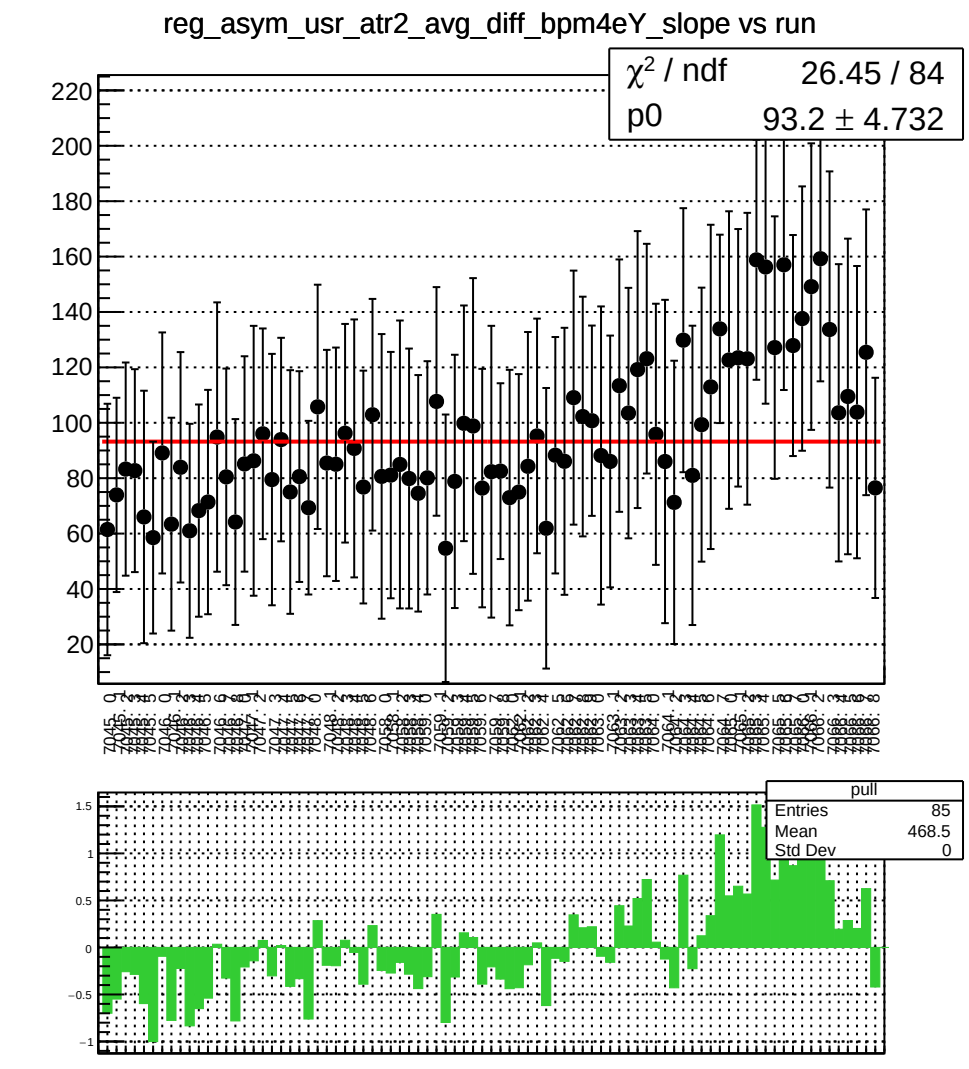

pull1D
Entries 85
Mean −0.02183
Std Dev 0.8951

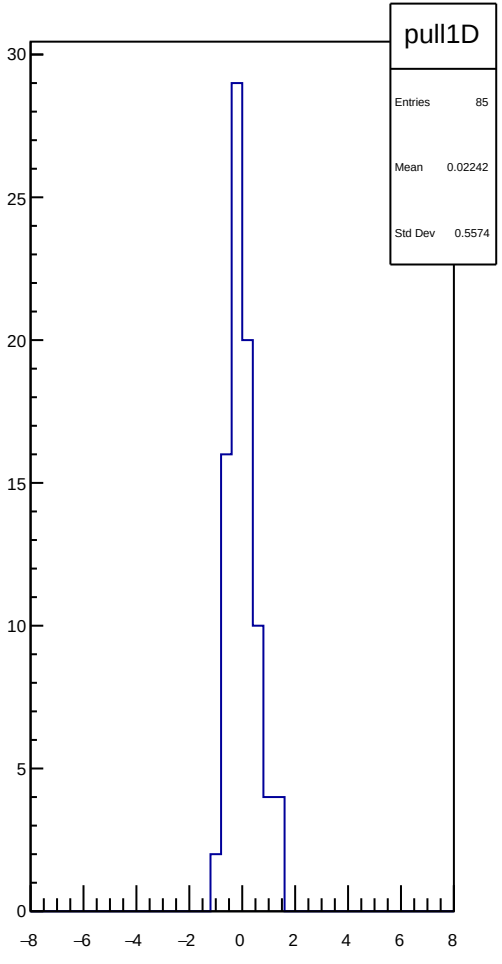

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 95.12 / 84
p0 −11.27 ± 0.05546
pull
Entries 85
Mean −427.6
Std Dev 0
pull1D
Entries 85
Mean −0.008923
Std Dev 1.058

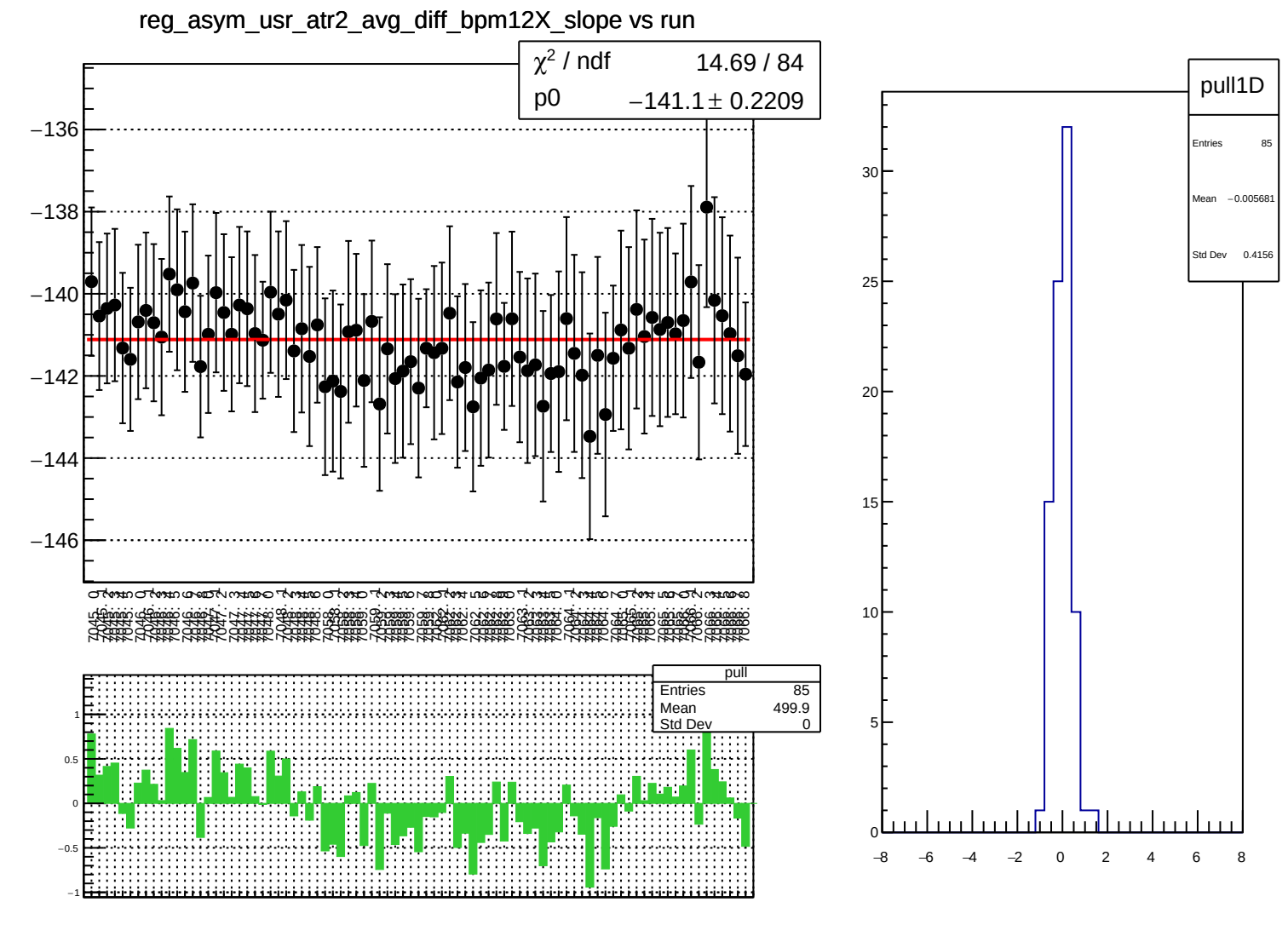

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 53.8 / 84
p0 −258.5 ± 6.668
pull
Entries 85
Mean −672.7
Std Dev 0
pull1D
Entries 85
Mean −0.01662
Std Dev 0.7954

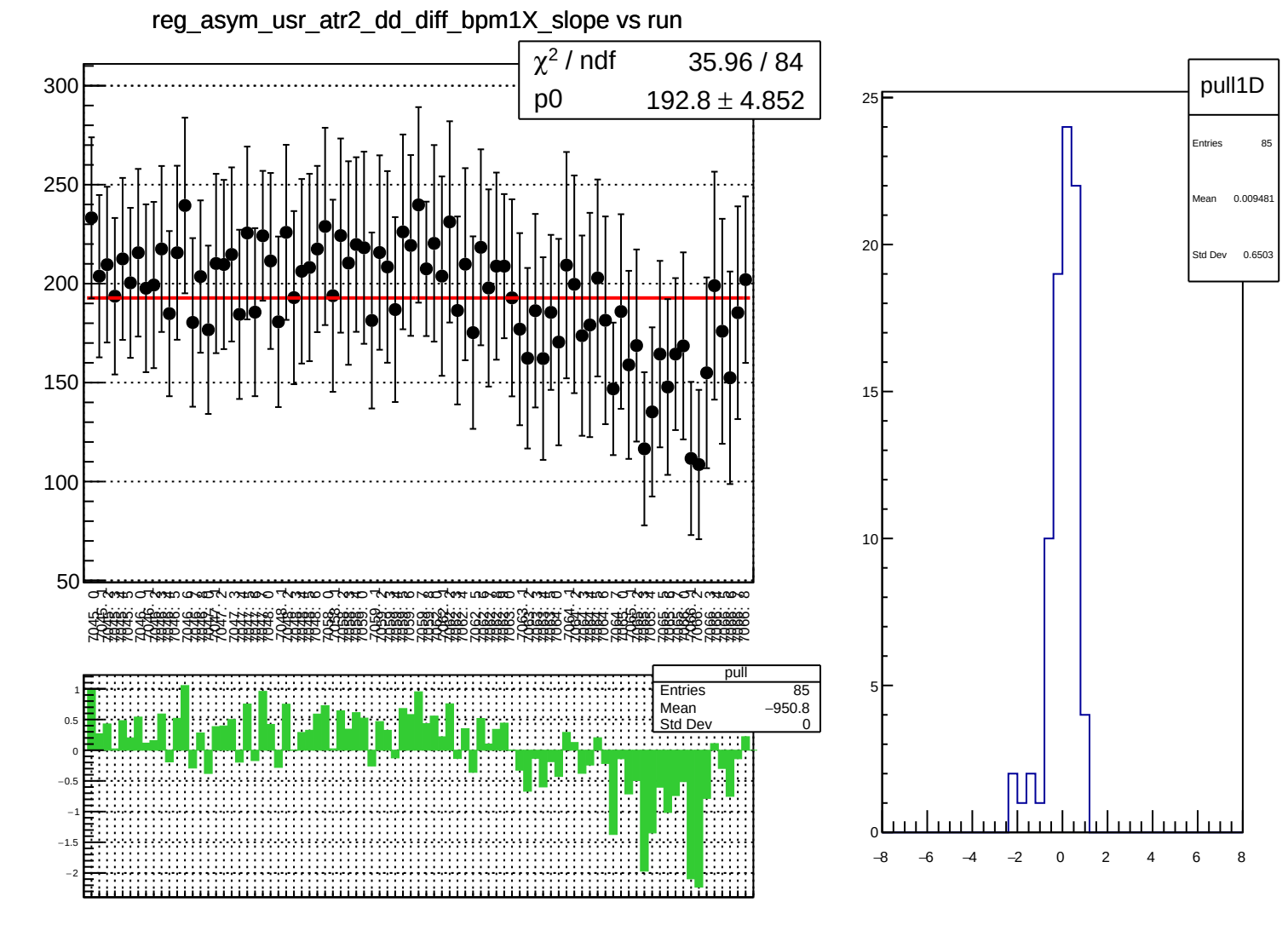

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.72 / 84
p0 −15.38 ± 4.443
pull
Entries 85
Mean 512.7
Std Dev 0
pull1D
Entries 85
Mean −0.01551
Std Dev 0.4814

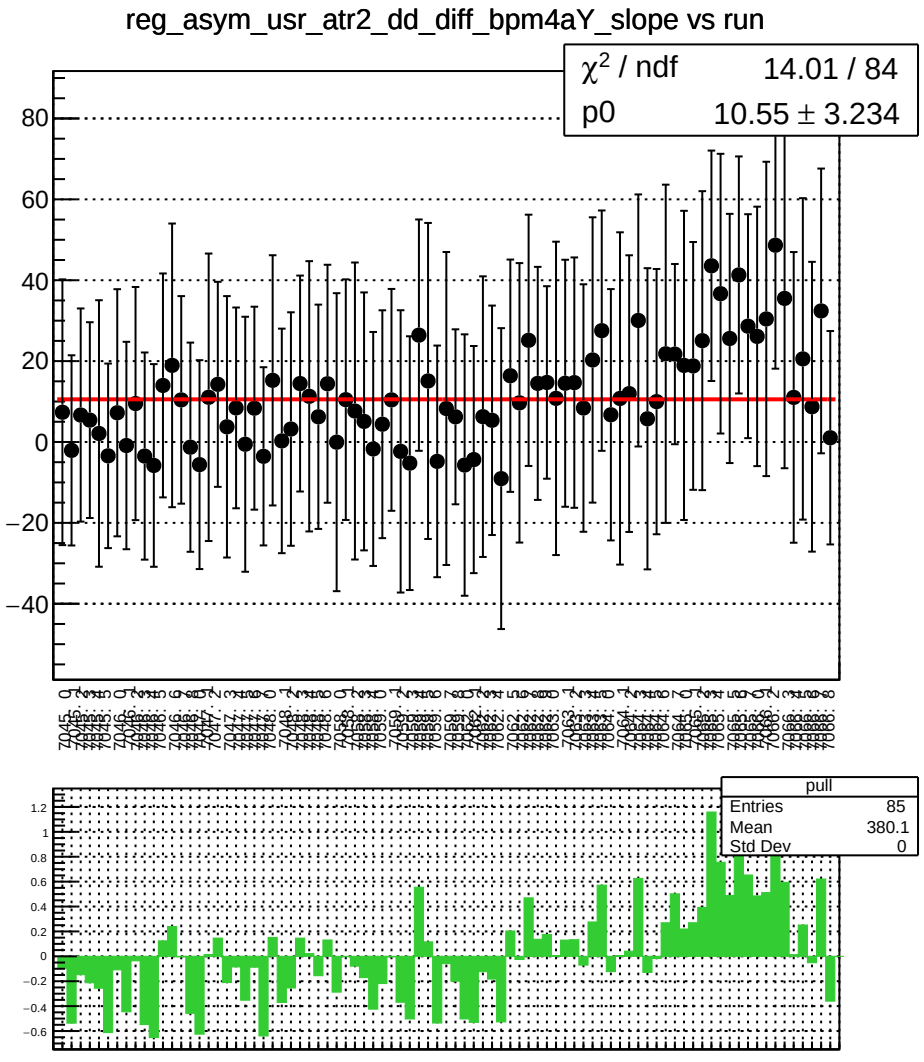

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.68 / 84
p0 327.9 ± 6.338
pull
Entries 85
Mean −690.9
Std Dev 0
pull1D
Entries 85
Mean 0.015
Std Dev 0.7796

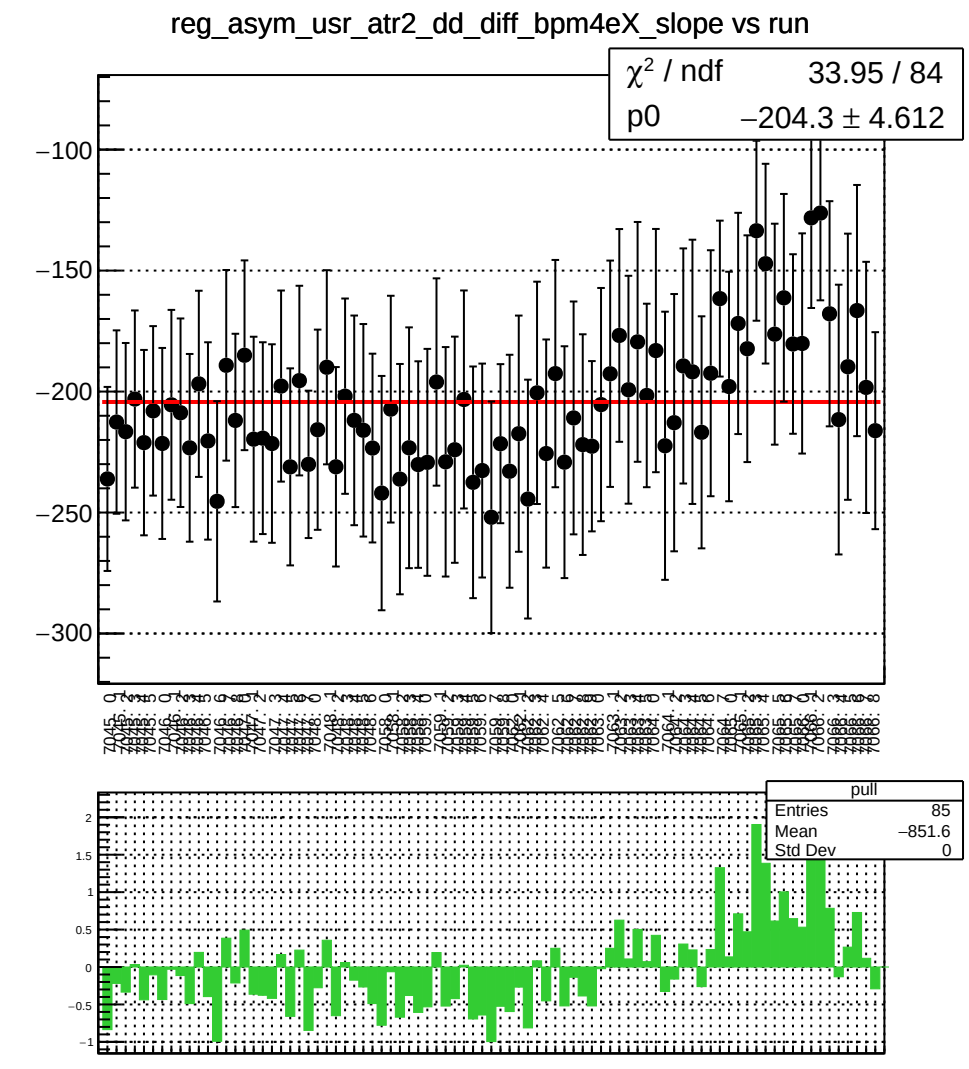

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.45 / 84
p0 93.2 ± 4.732
pull
Entries 85
Mean 468.5
Std Dev 0

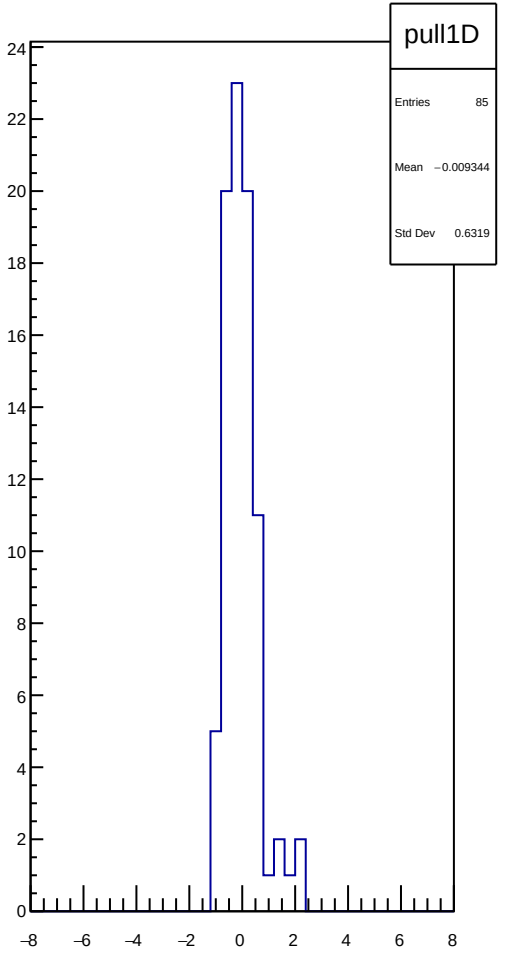

pull1D
Entries 85
Mean 0.02242
Std Dev 0.5574

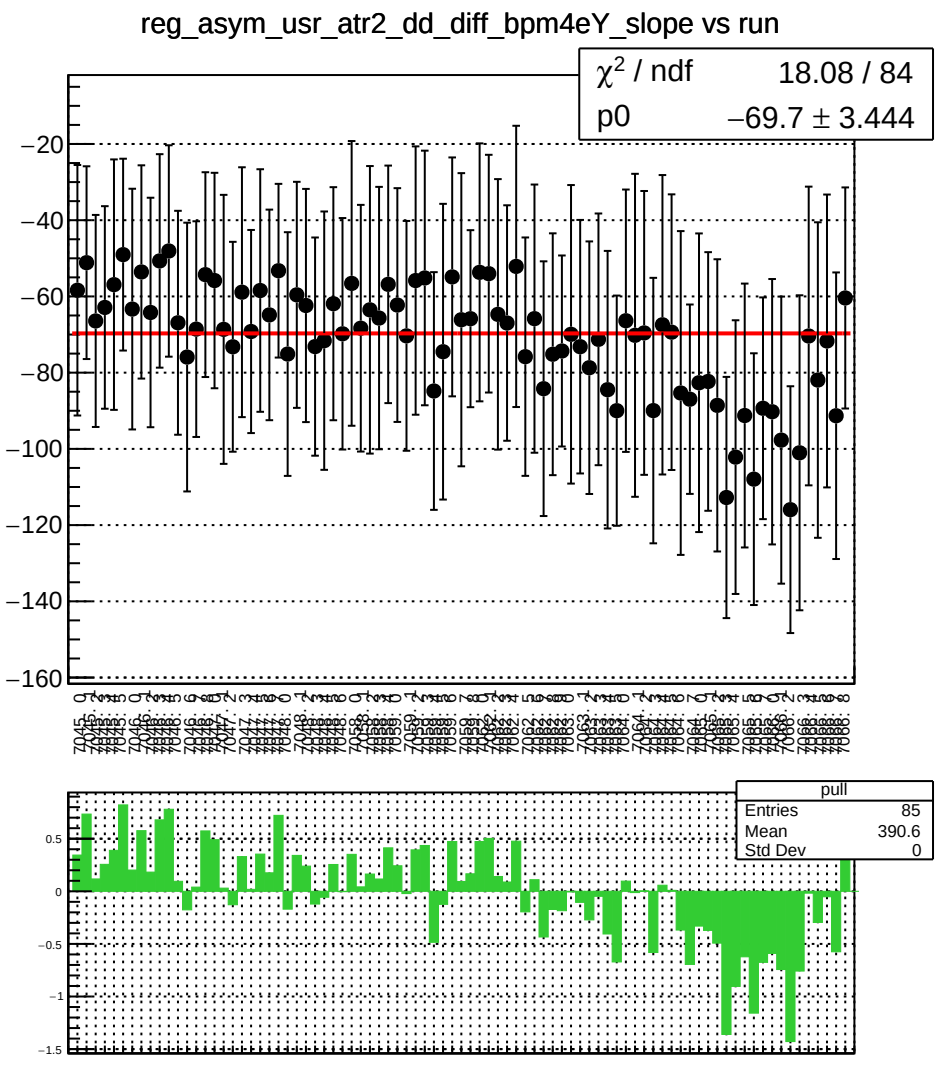

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.69 / 84
p0 −141.1 ± 0.2209
−136
−138
−140
−142
−144
−146
pull
Entries 85
Mean 499.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.005681
Std Dev 0.4156
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

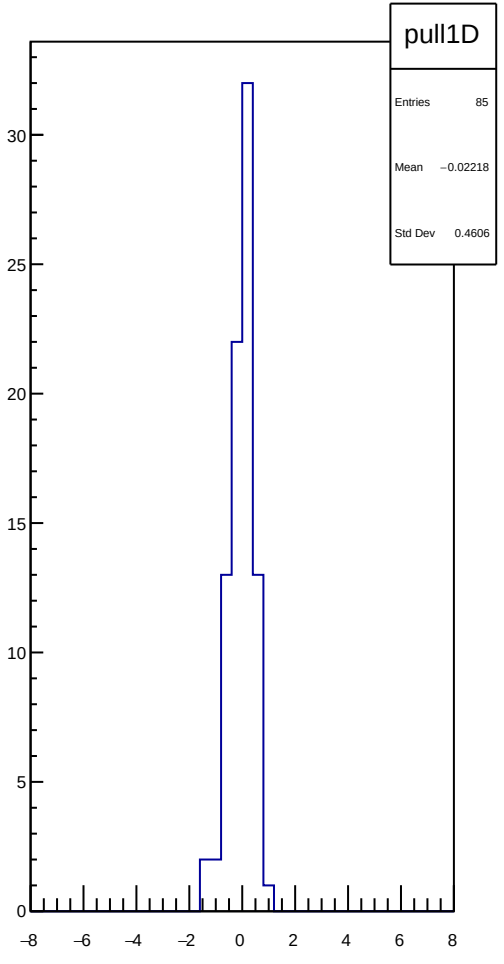

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 35.96 / 84
p0 192.8 ± 4.852
300
250
200
150
100
50
pull
Entries 85
Mean −950.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.009481
Std Dev 0.6503
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

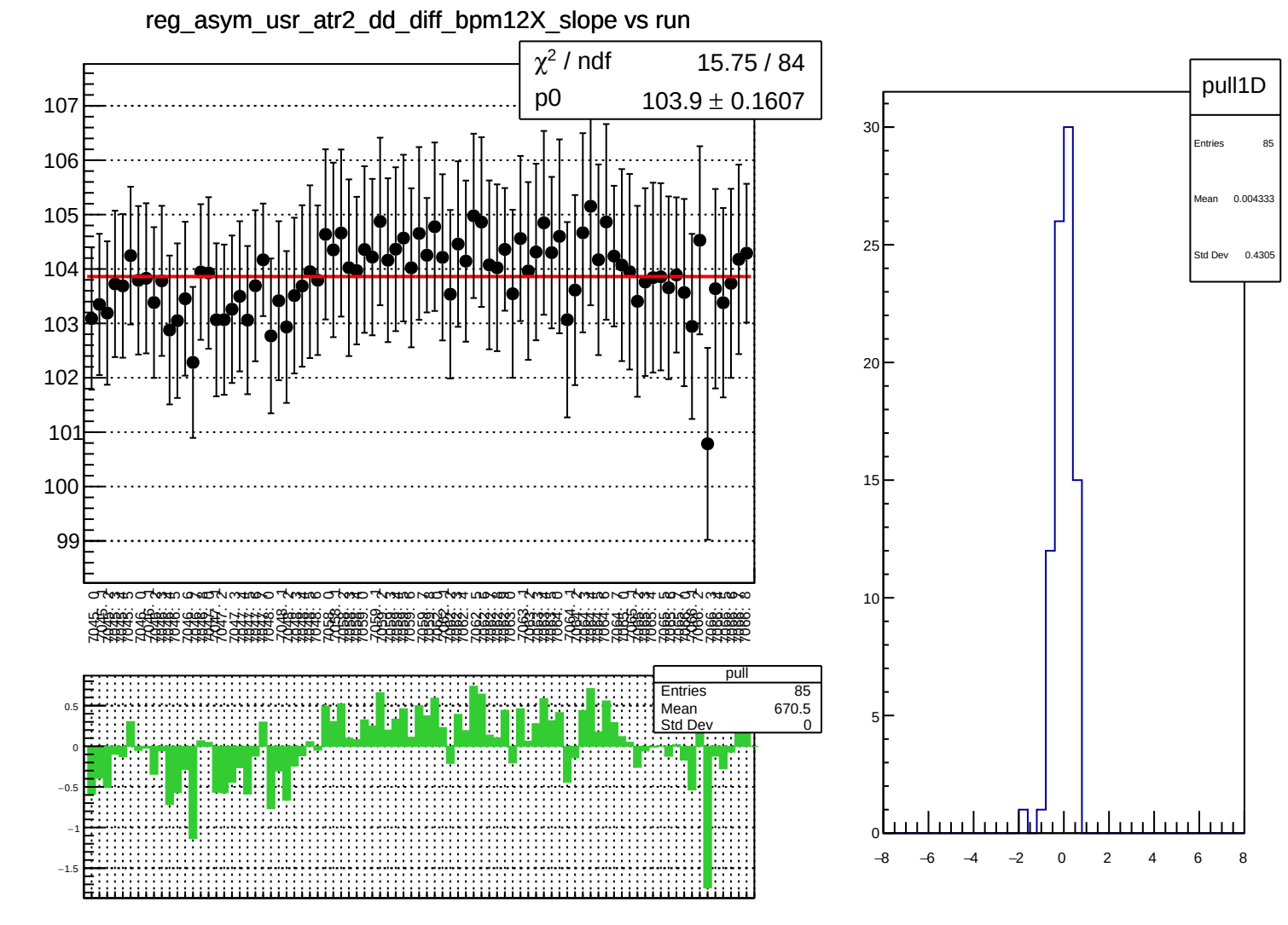

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.01 / 84
p0 10.55 ± 3.234
pull
Entries 85
Mean 380.1
Std Dev 0
pull1D
Entries 85
Mean 0.01784
Std Dev 0.4057

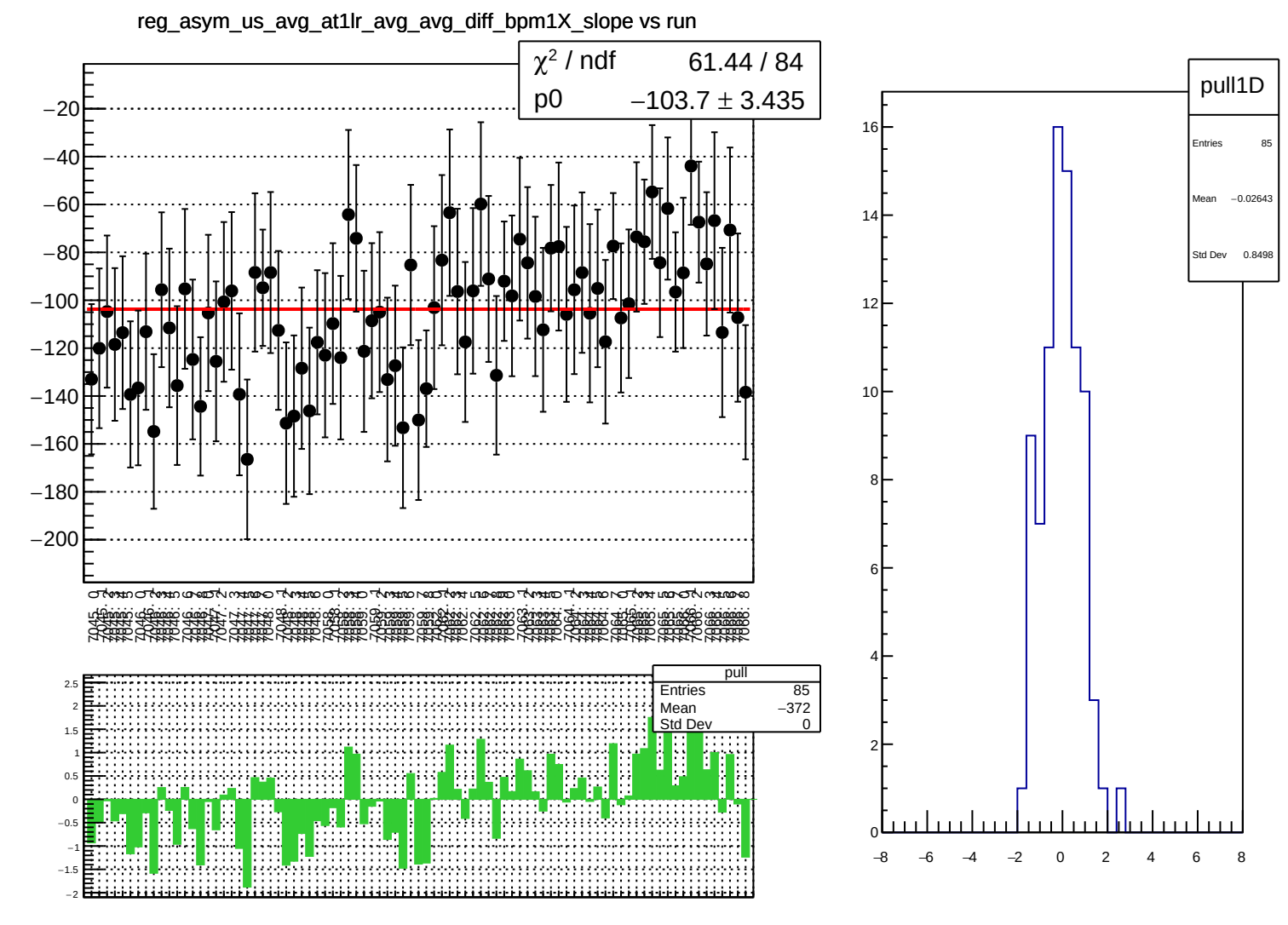

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.95 / 84
p0 −204.3 ± 4.612
−100
−150
−200
−250
−300
pull
Entries 85
Mean −851.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

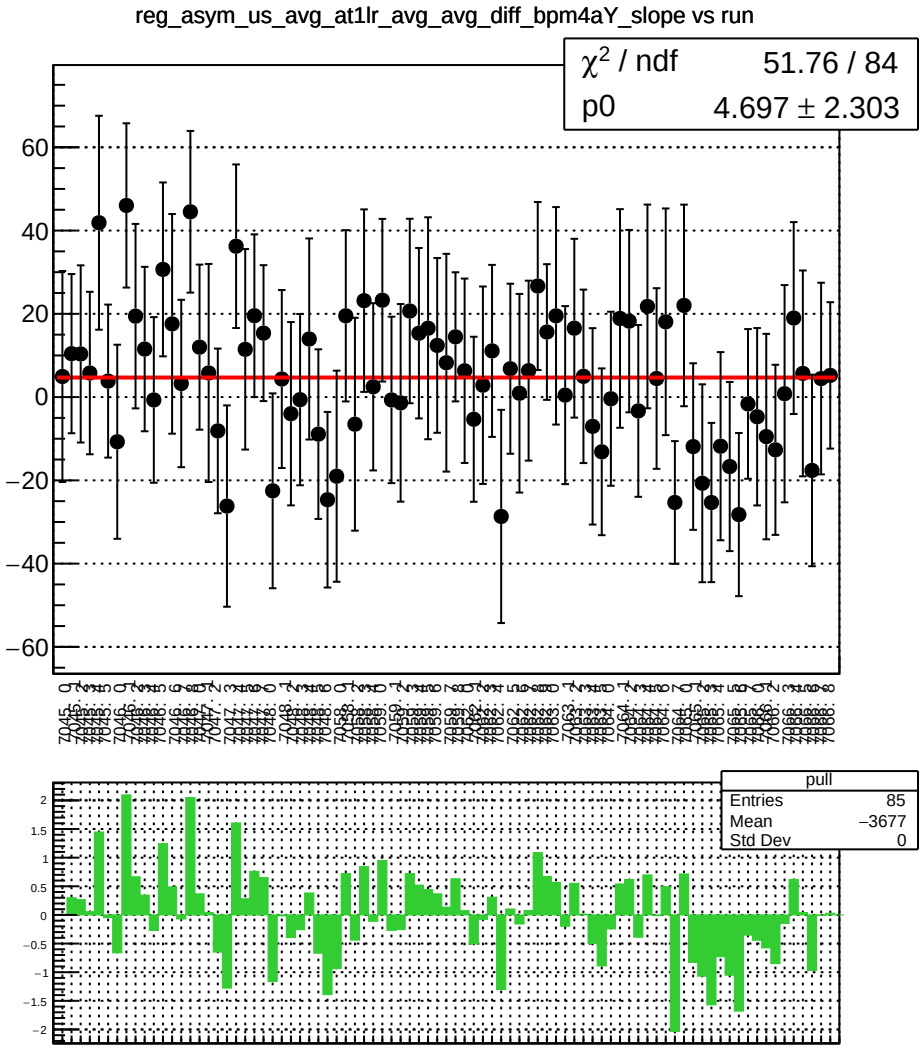

pull1D
Entries 85
Mean −0.009344
Std Dev 0.6319
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

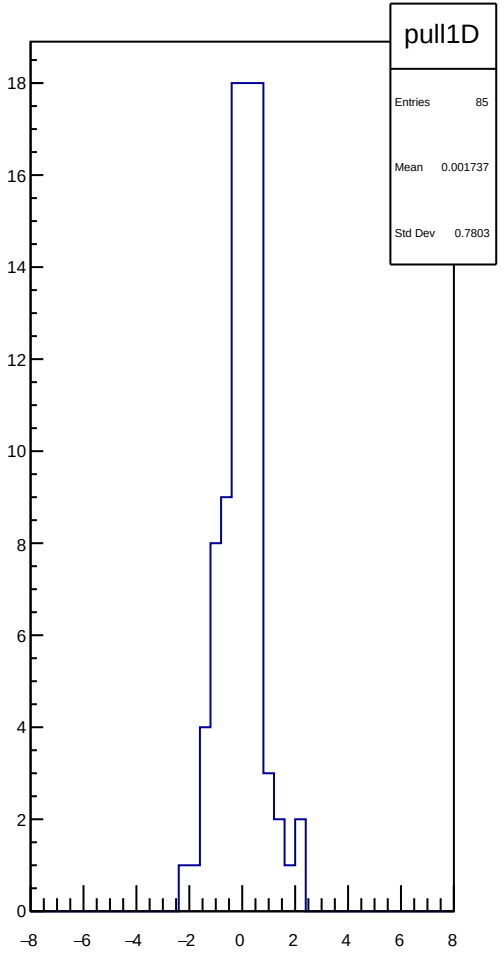

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.08 / 84
p0 −69.7 ± 3.444
pull
Entries 85
Mean 390.6
Std Dev 0

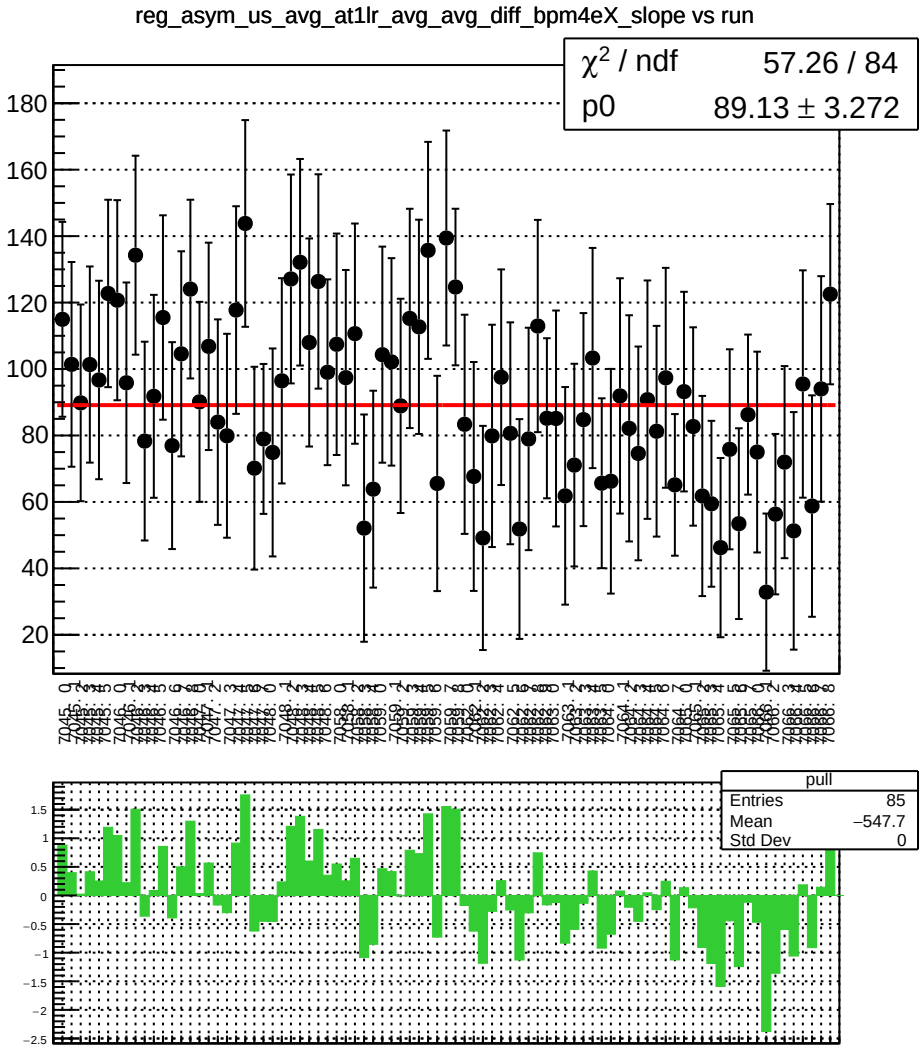

pull1D
Entries 85
Mean −0.02218
Std Dev 0.4606

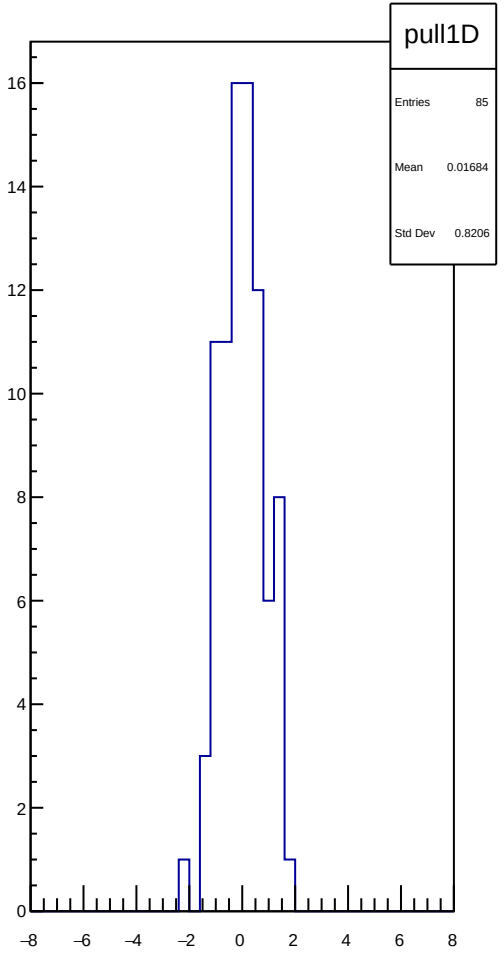

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.75 / 84
p0 103.9 ± 0.1607
pull
Entries 85
Mean 670.5
Std Dev 0
pull1D
Entries 85
Mean 0.004333
Std Dev 0.4305

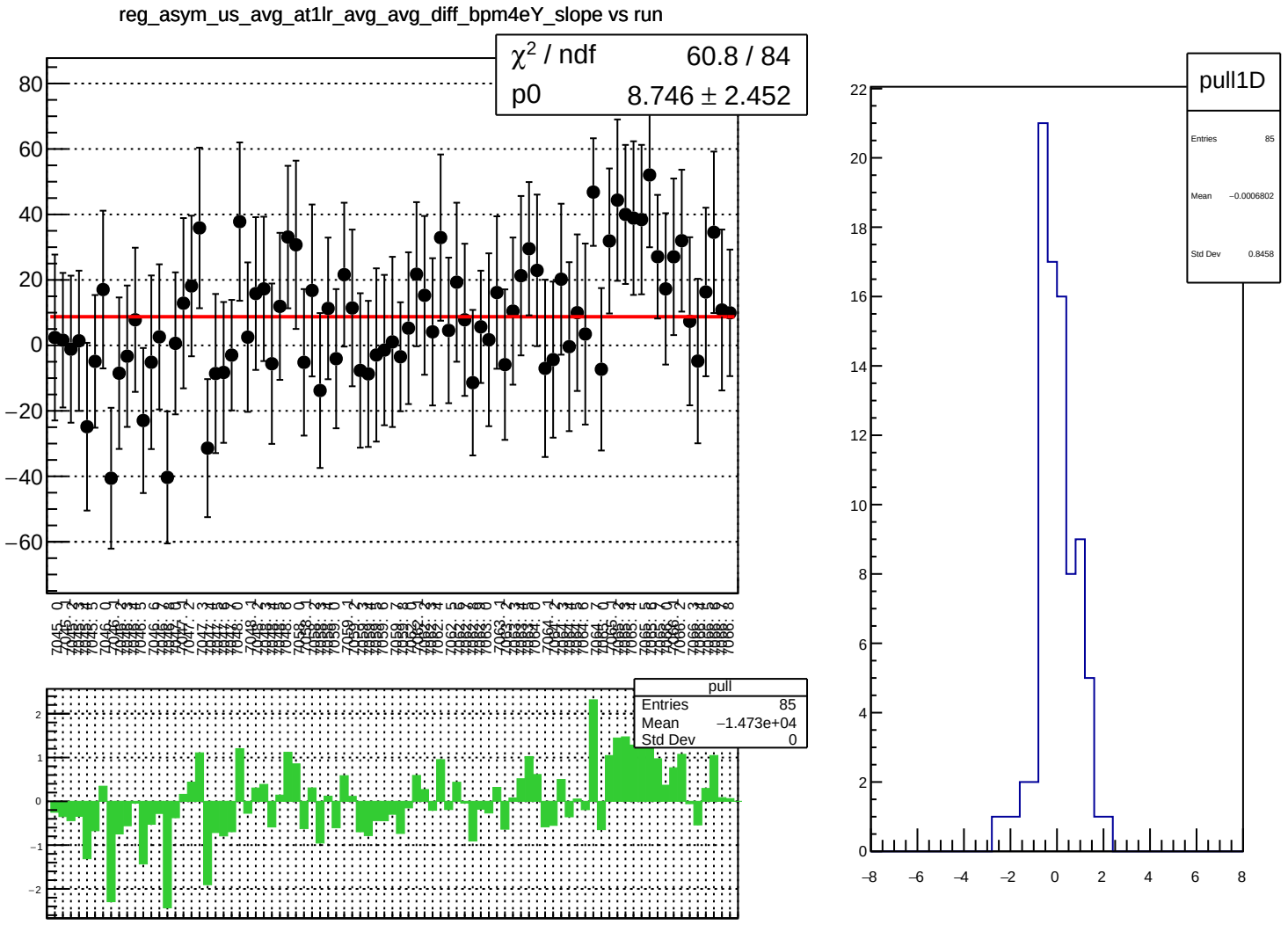

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 61.44 / 84
p0 −103.7 ± 3.435
pull
Entries 85
Mean −372
Std Dev 0
pull1D
Entries 85
Mean −0.02643
Std Dev 0.8498

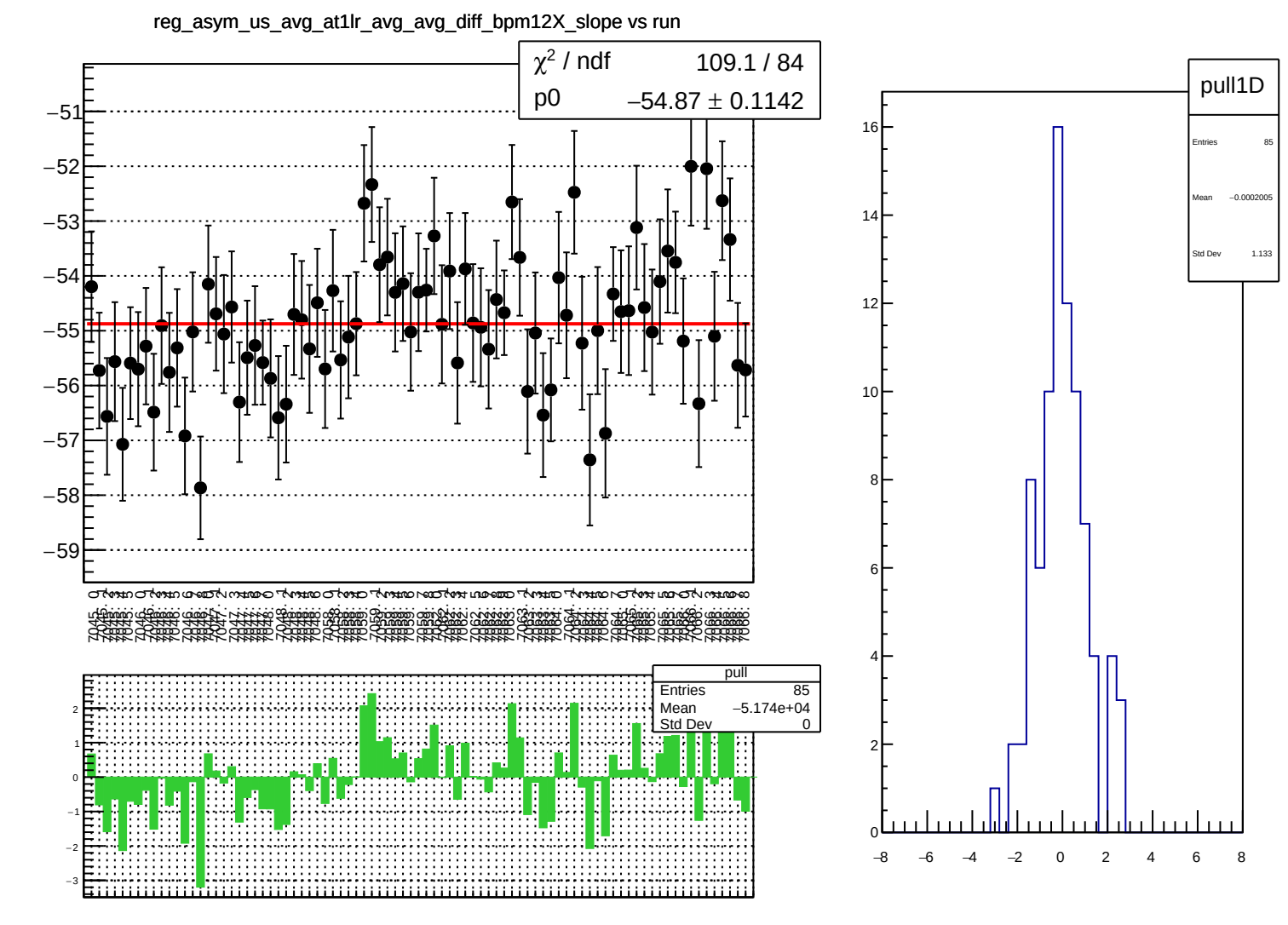

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.76 / 84
p0 4.697 ± 2.303
pull
Entries 85
Mean −3677
Std Dev 0

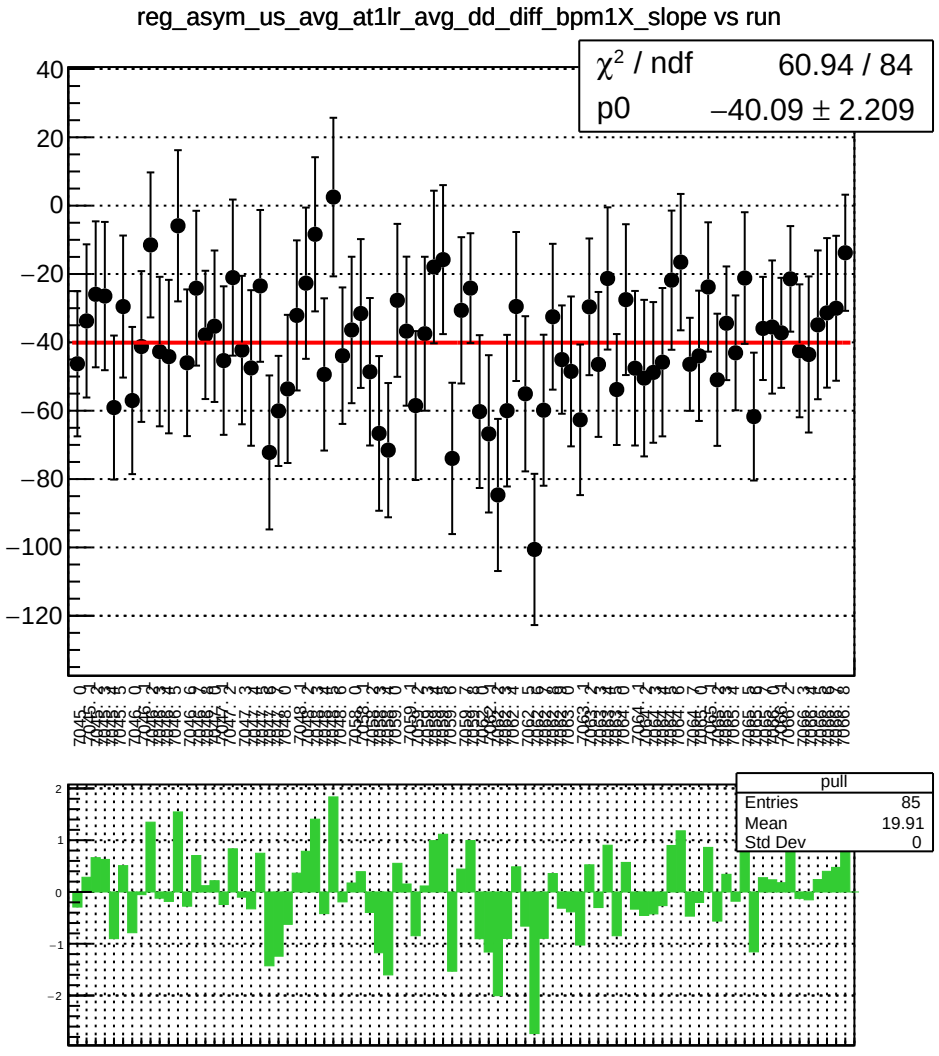

pull1D
Entries 85
Mean 0.001737
Std Dev 0.7803

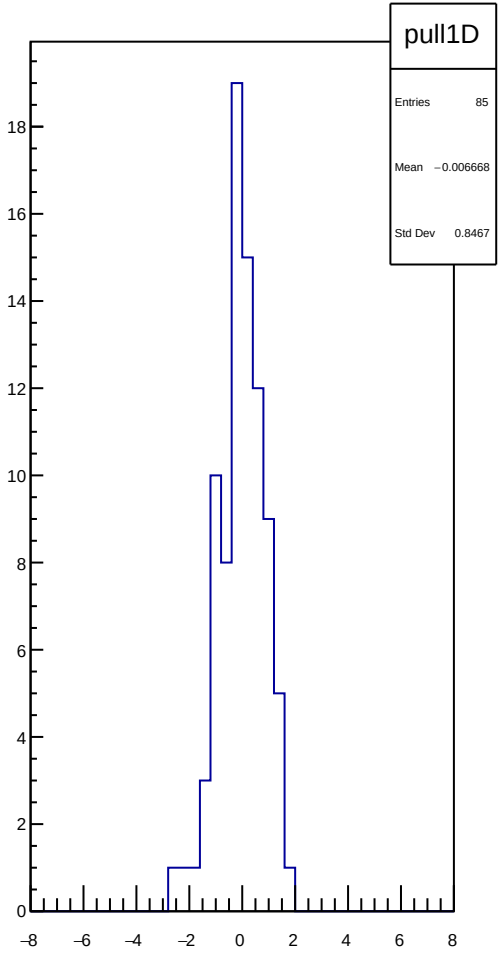

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.26 / 84
p0 89.13 ± 3.272
pull
Entries 85
Mean −547.7
Std Dev 0

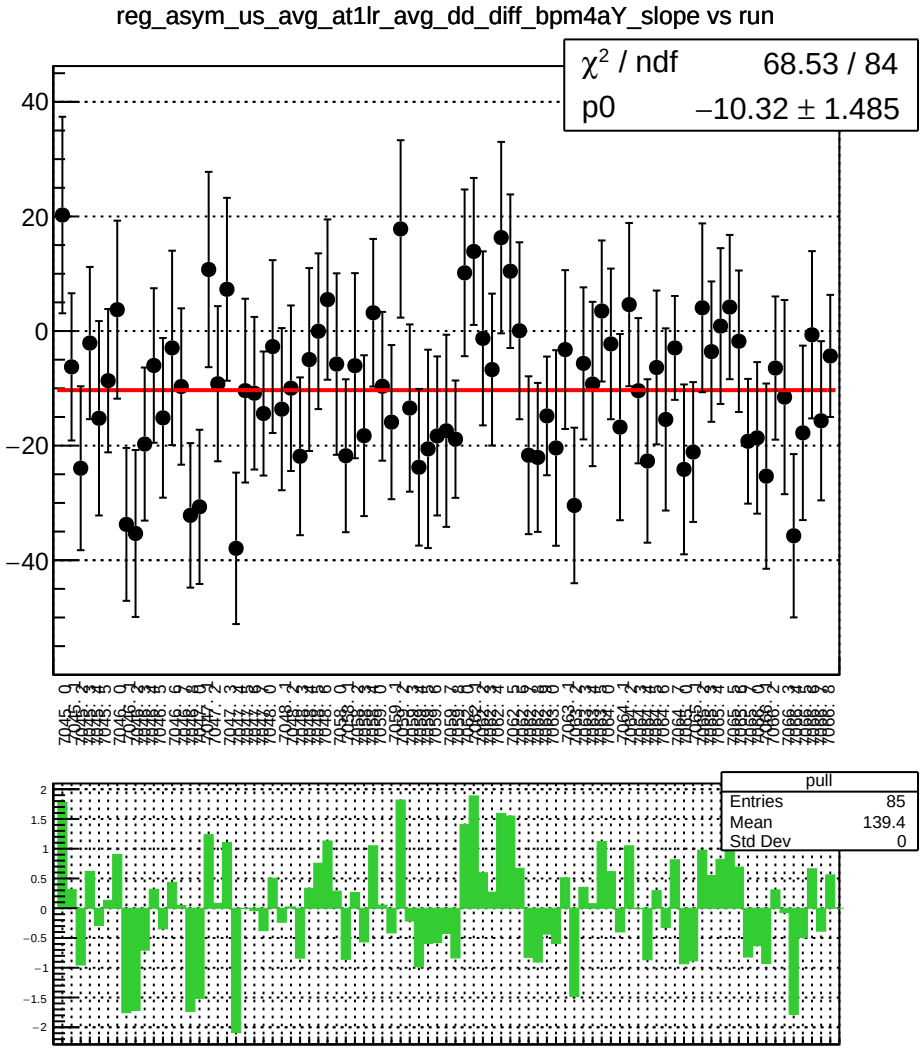

pull1D
Entries 85
Mean 0.01684
Std Dev 0.8206

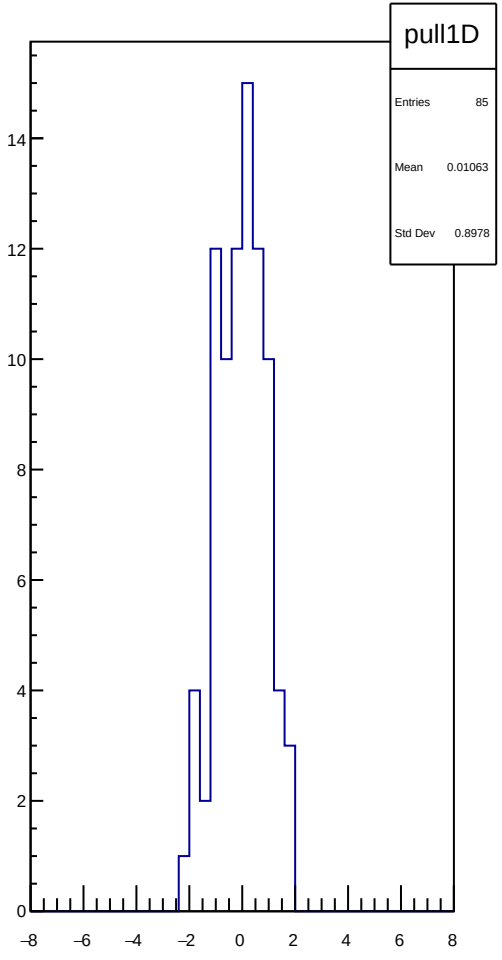

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.8 / 84
p0 8.746 ± 2.452
pull
Entries 85
Mean −1.473e+04
Std Dev 0
pull1D
Entries 85
Mean −0.0006802
Std Dev 0.8458

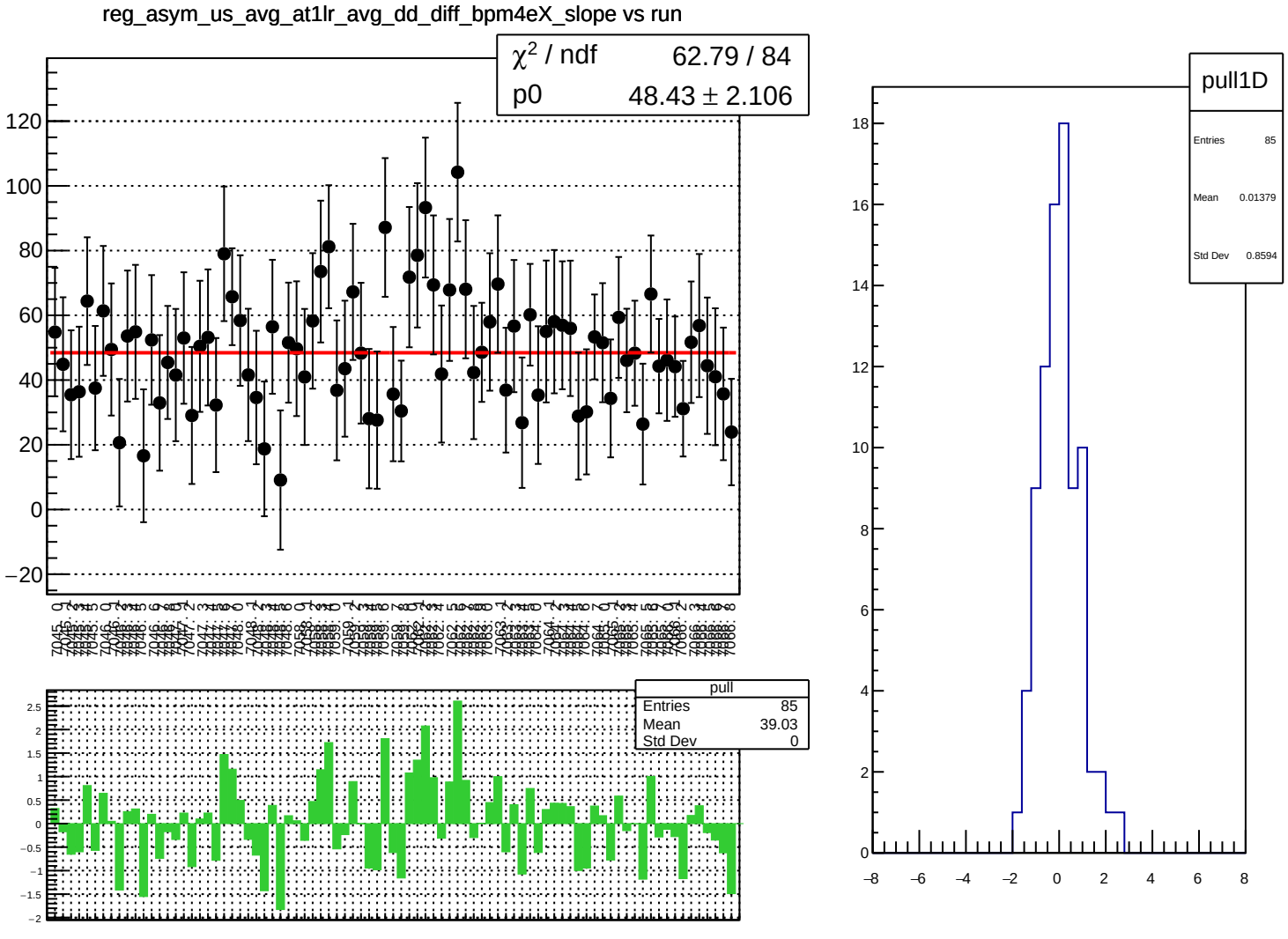

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 109.1 / 84
p0 −54.87 ± 0.1142
pull
Entries 85
Mean −5.174e+04
Std Dev 0
pull1D
Entries 85
Mean −0.0002005
Std Dev 1.133

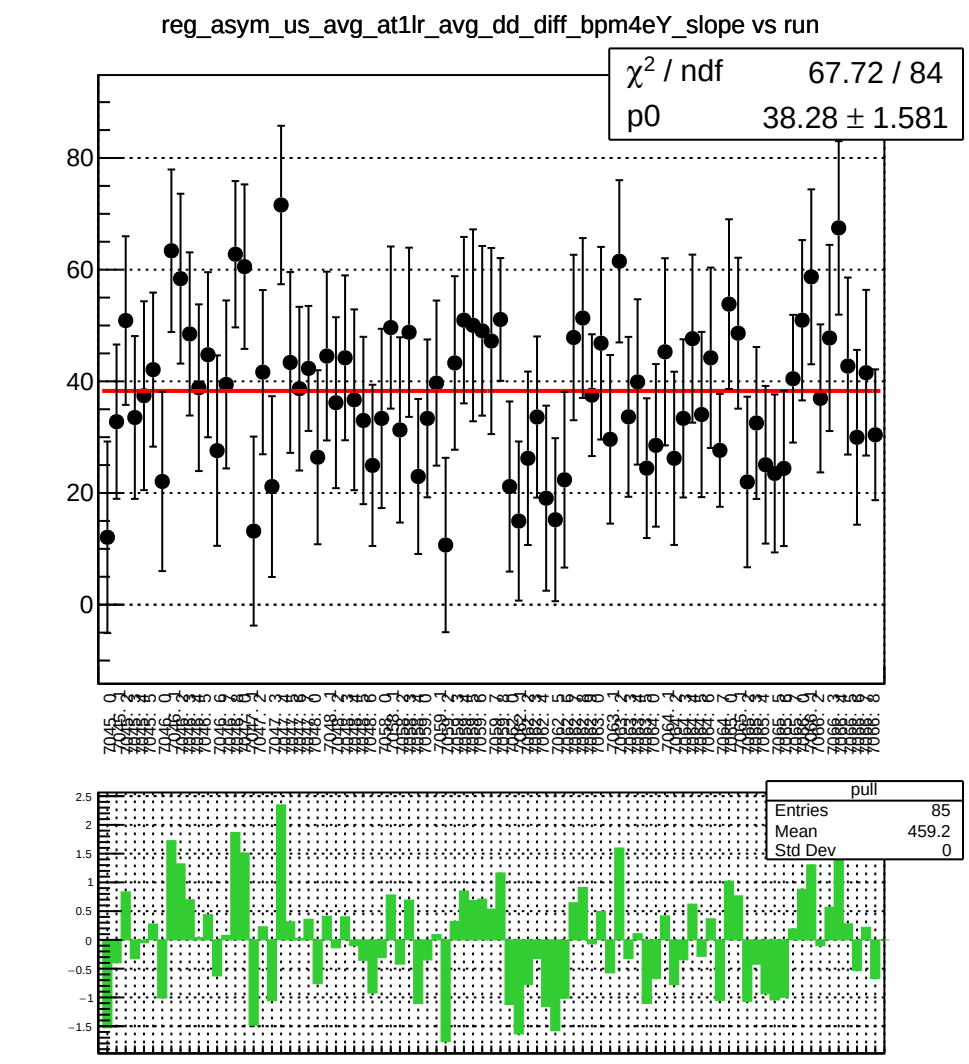

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 60.94 / 84
p0 −40.09 ± 2.209
pull
Entries 85
Mean 19.91
Std Dev 0

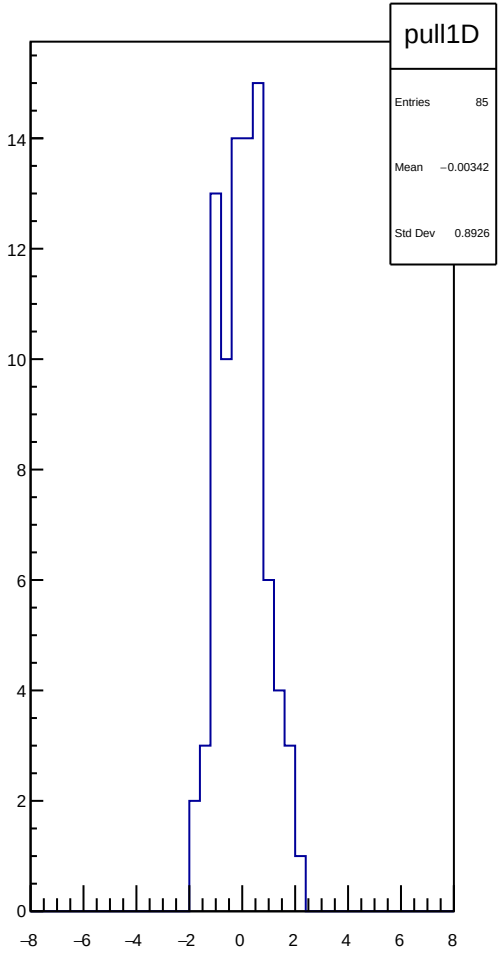

pull1D
Entries 85
Mean −0.006668
Std Dev 0.8467

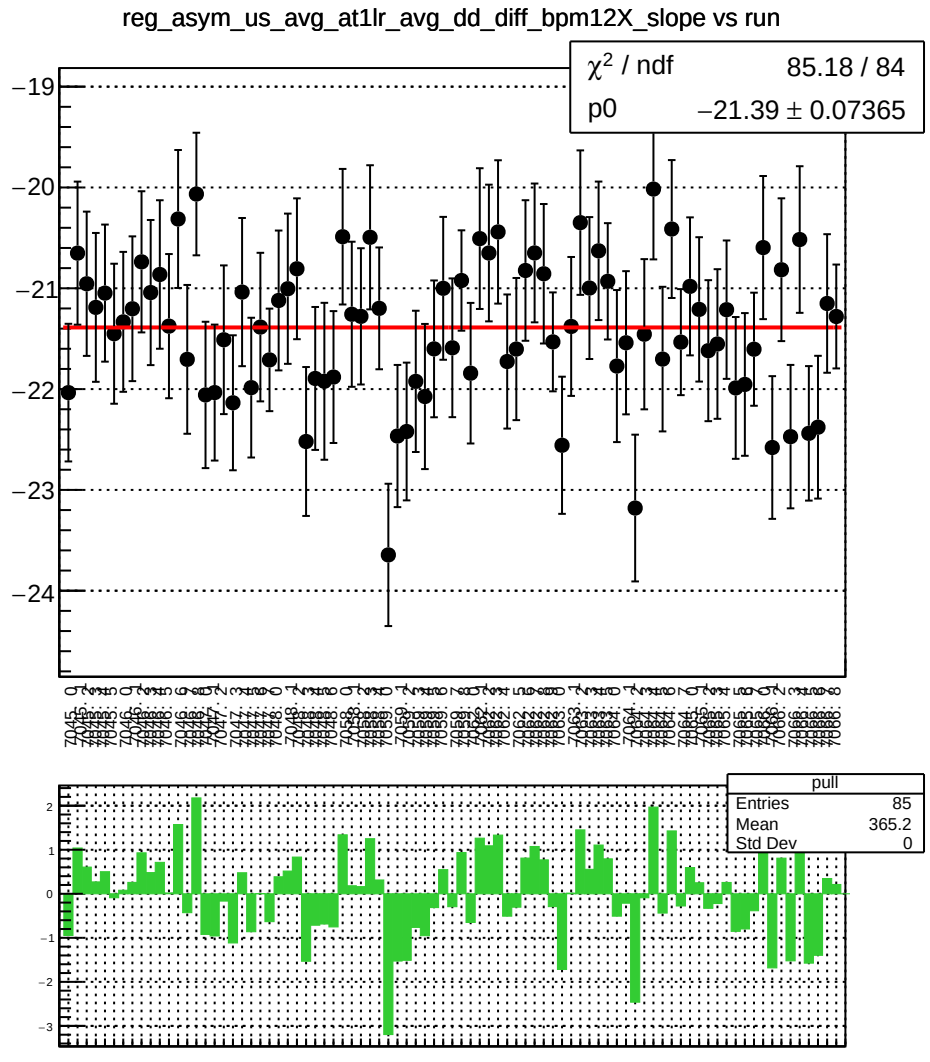

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.53 / 84
p0 −10.32 ± 1.485
pull
Entries 85
Mean 139.4
Std Dev 0

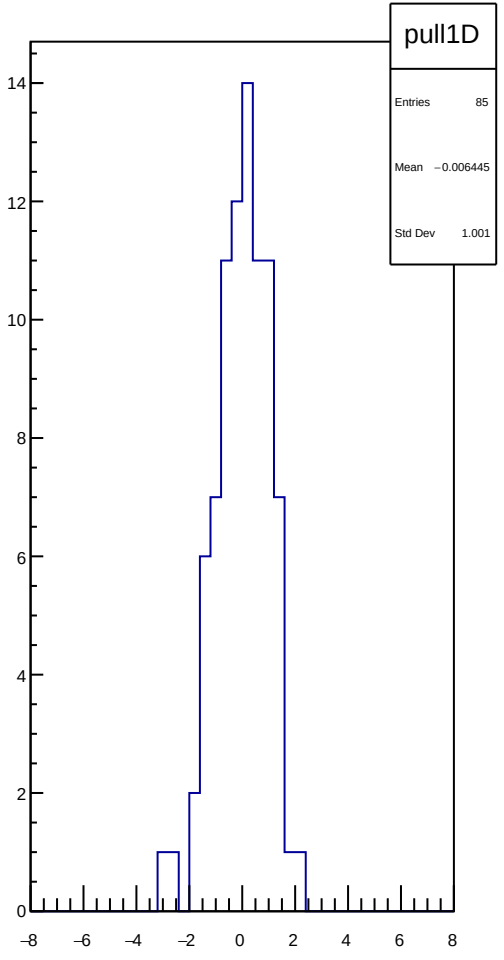

pull1D
Entries 85
Mean 0.01063
Std Dev 0.8978

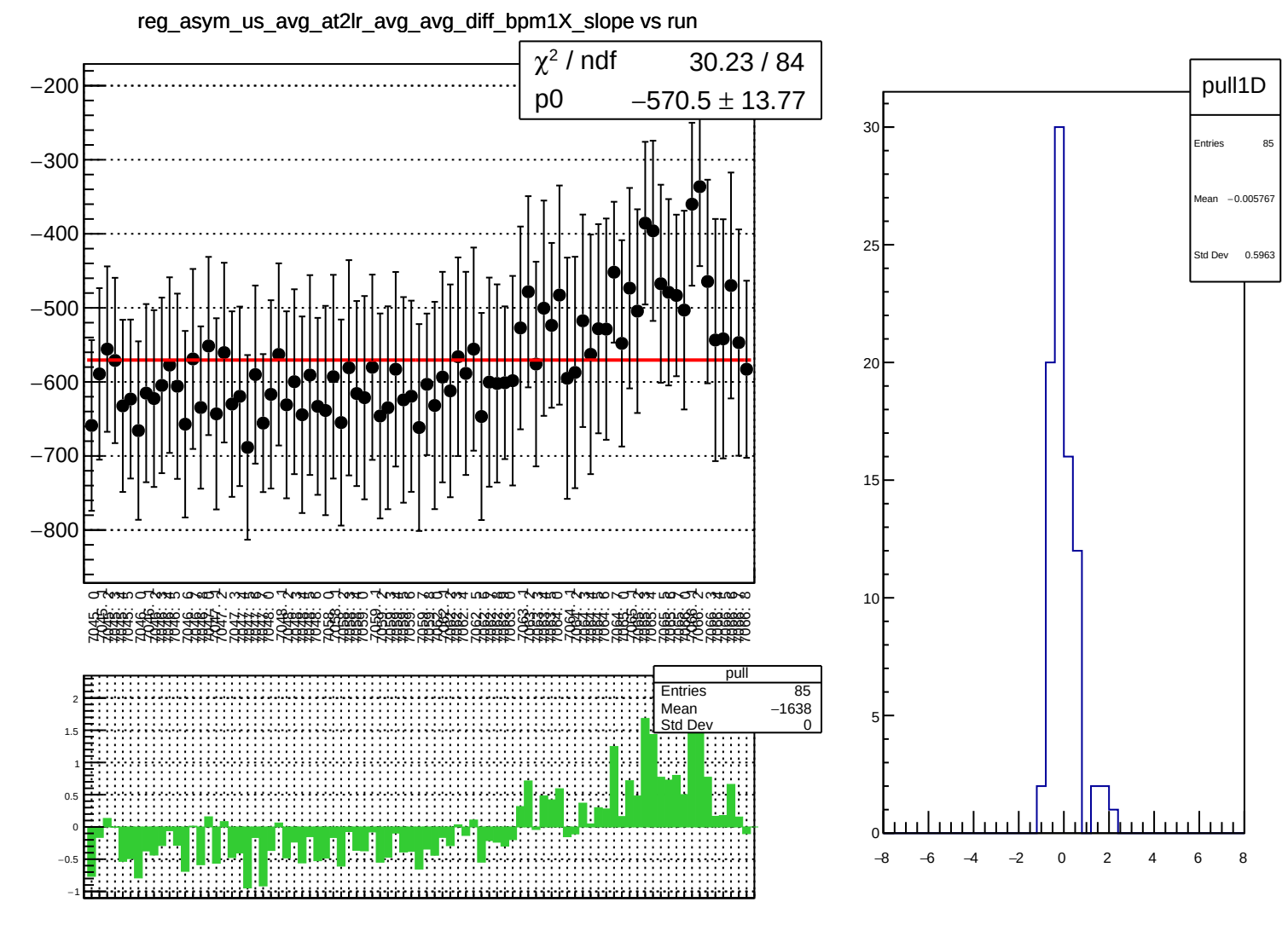

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.79 / 84
p0 48.43 ± 2.106
pull
Entries 85
Mean 39.03
Std Dev 0
pull1D
Entries 85
Mean 0.01379
Std Dev 0.8594

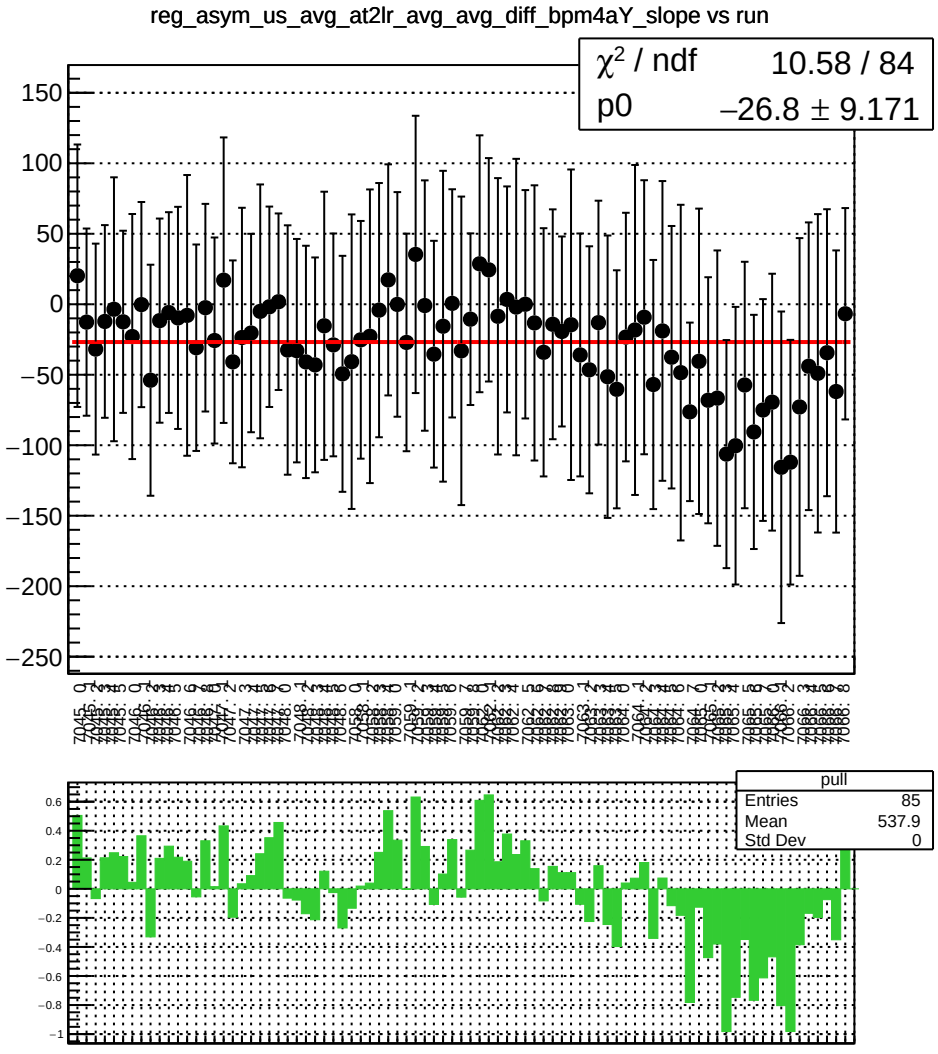

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.72 / 84
p0 38.28 ± 1.581
pull
Entries 85
Mean 459.2
Std Dev 0

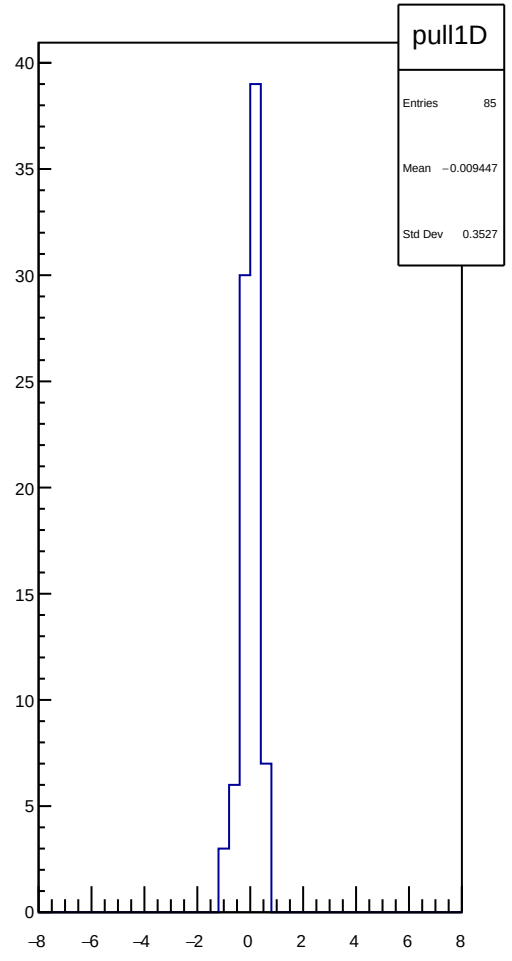

pull1D
Entries 85
Mean −0.00342
Std Dev 0.8926

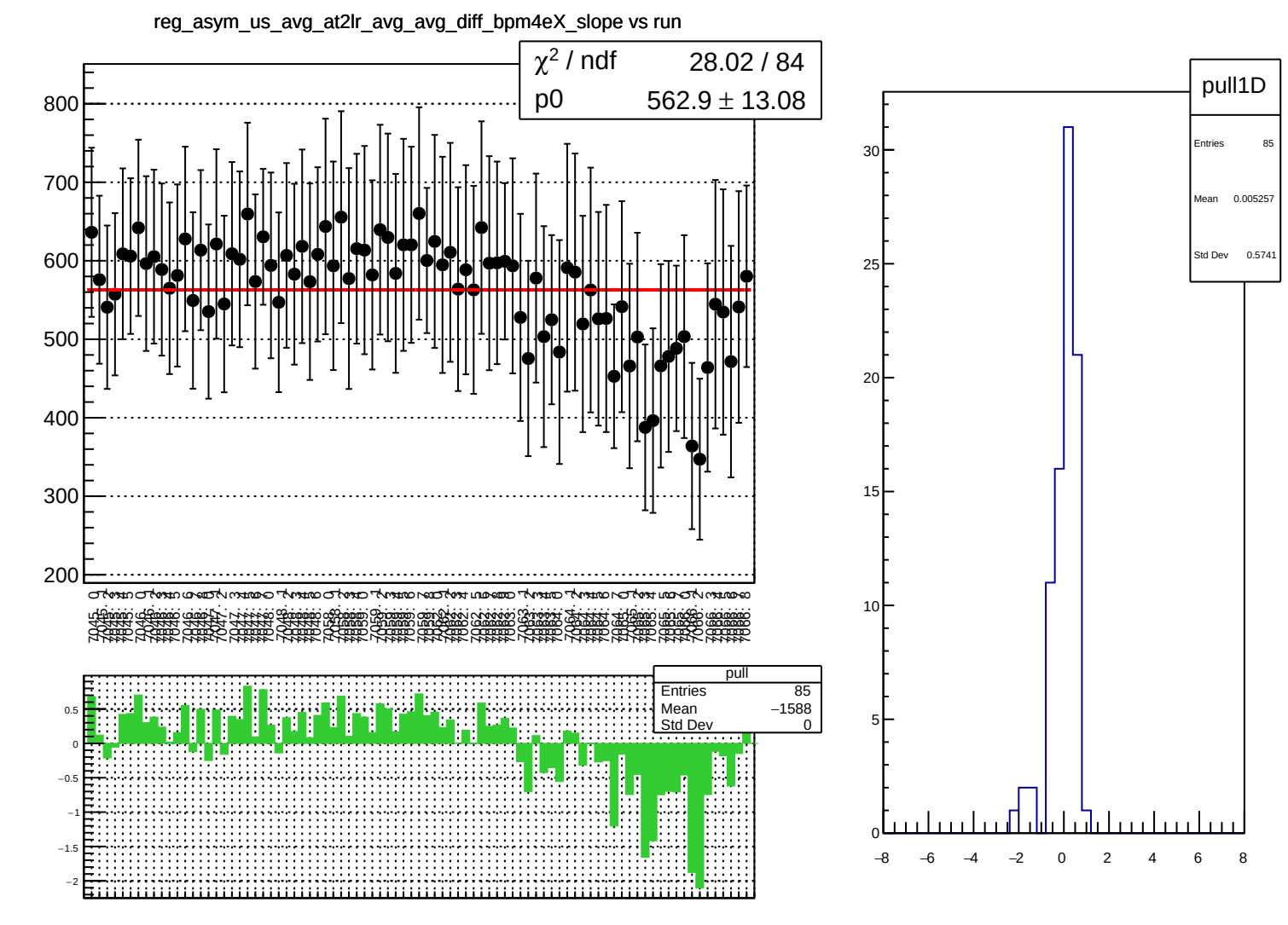

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 85.18 / 84
p0 −21.39 ± 0.07365
pull
Entries 85
Mean 365.2
Std Dev 0

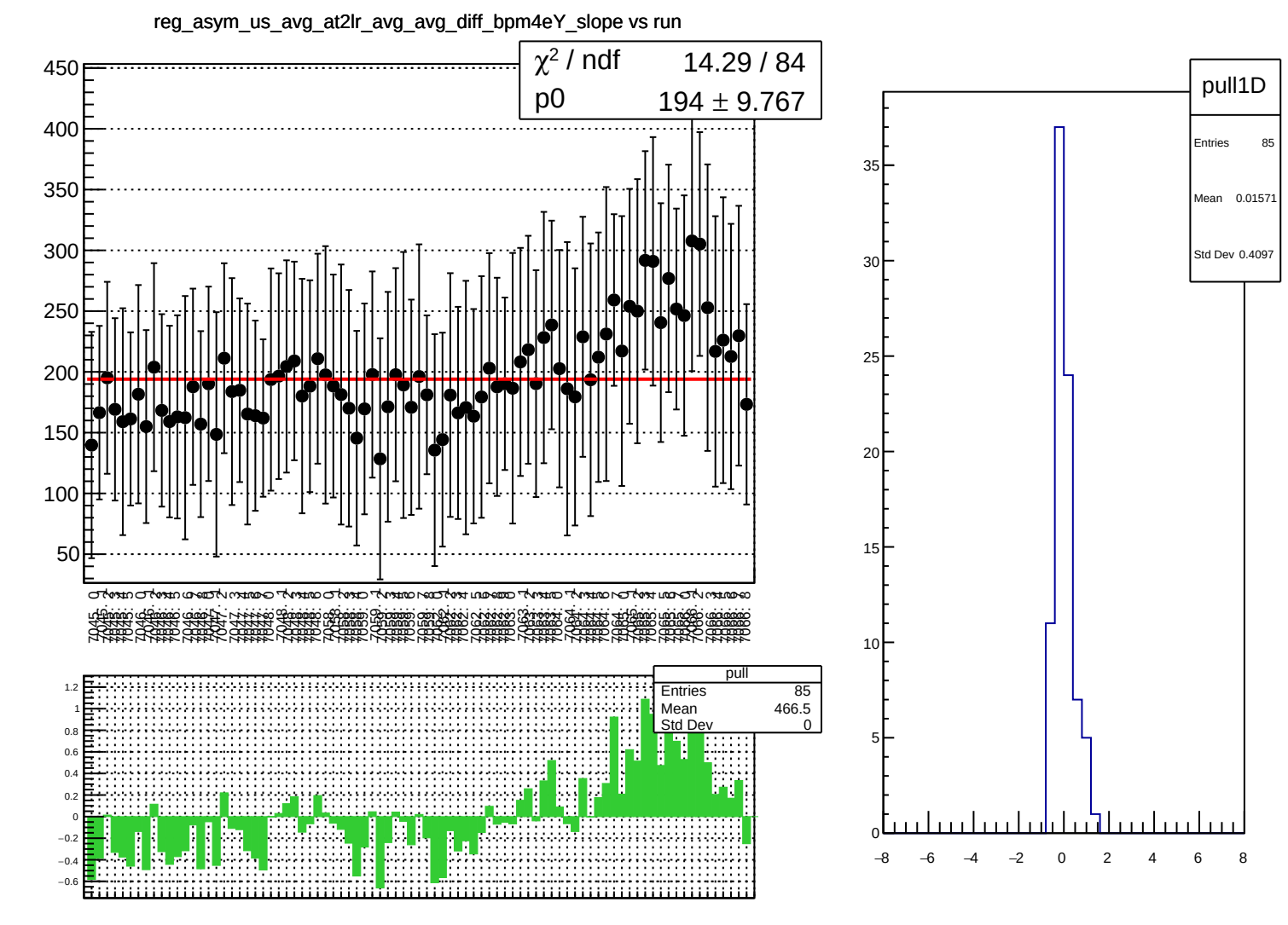

pull1D
Entries 85
Mean −0.006445
Std Dev 1.001

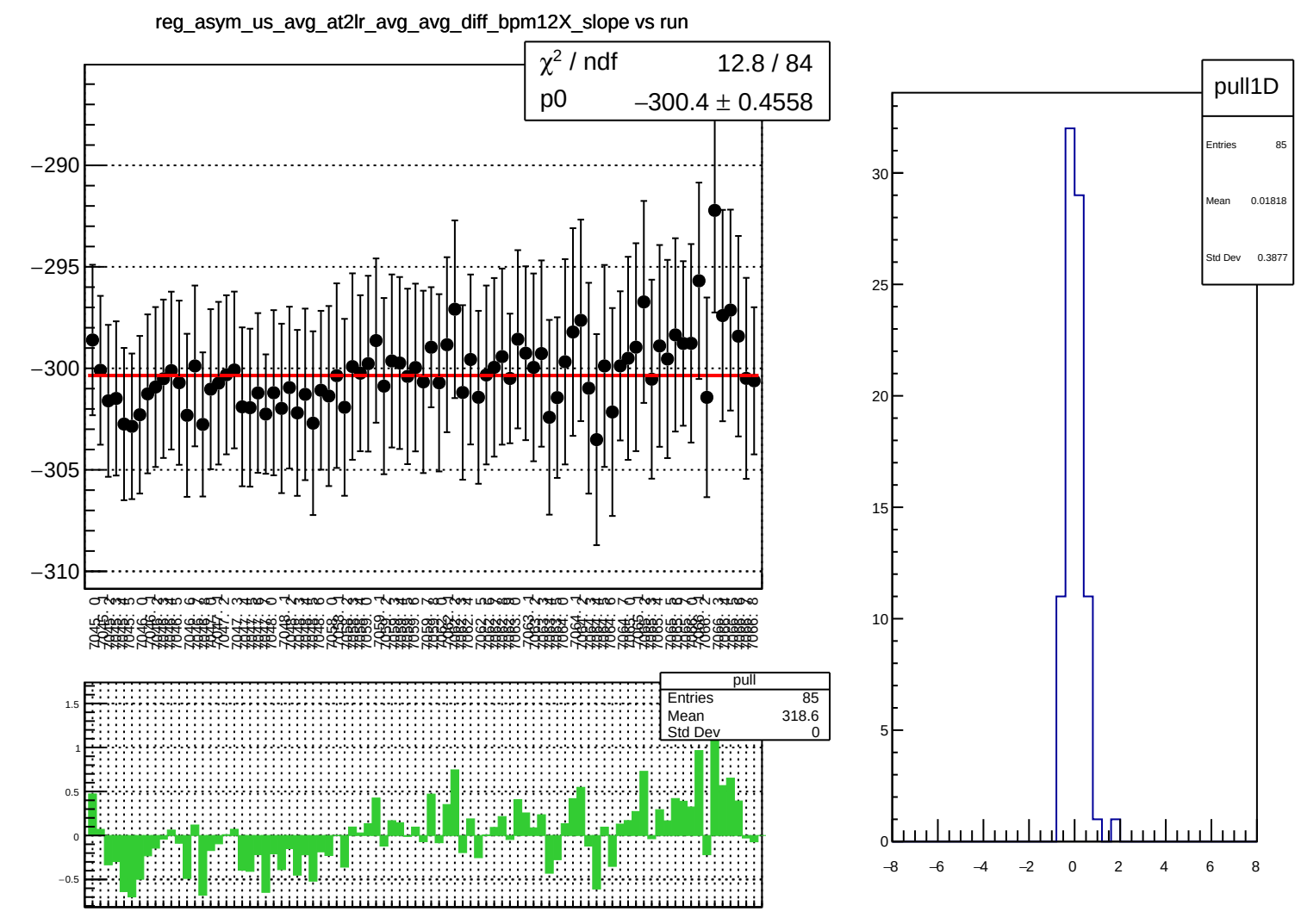

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 30.23 / 84
p0 −570.5 ± 13.77
pull
Entries 85
Mean −1638
Std Dev 0
pull1D
Entries 85
Mean −0.005767
Std Dev 0.5963

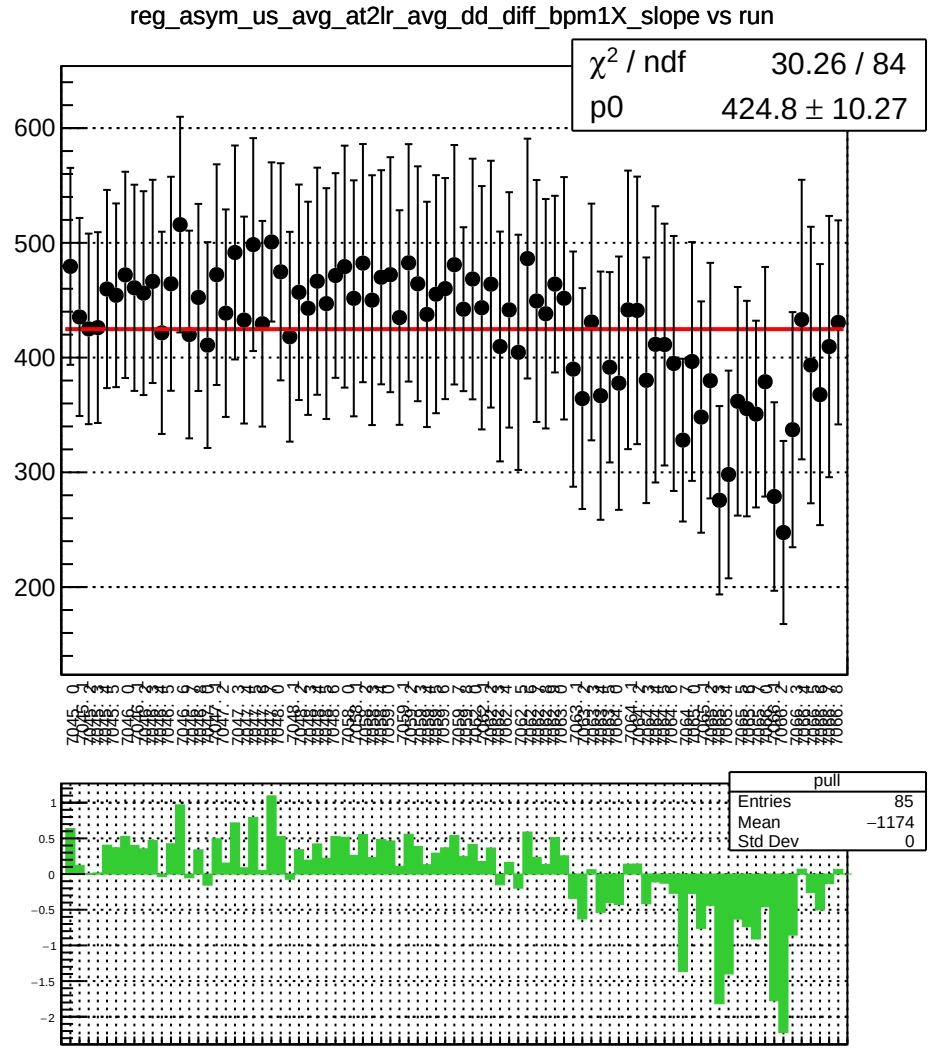

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.58 / 84
p0 −26.8 ± 9.171
pull
Entries 85
Mean 537.9
Std Dev 0

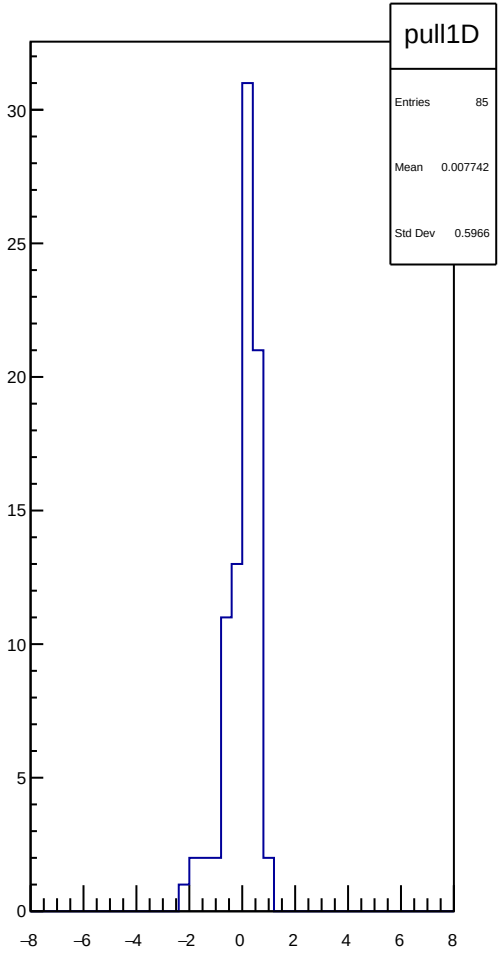

pull1D
Entries 85
Mean −0.009447
Std Dev 0.3527

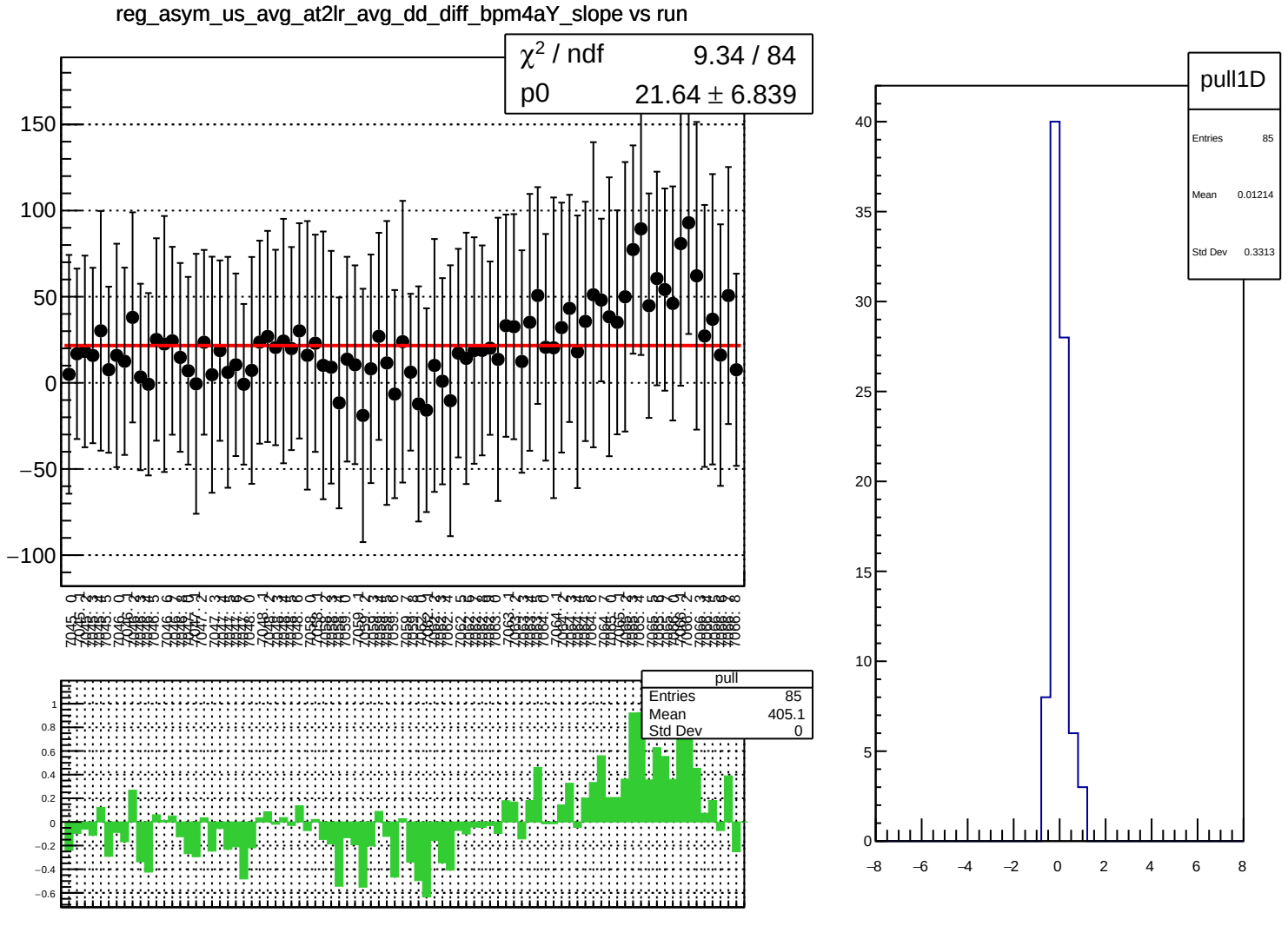

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.02 / 84
p0 562.9 ± 13.08
800
700
600
500
400
300
200
pull
Entries 85
Mean −1588
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.005257
Std Dev 0.5741
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

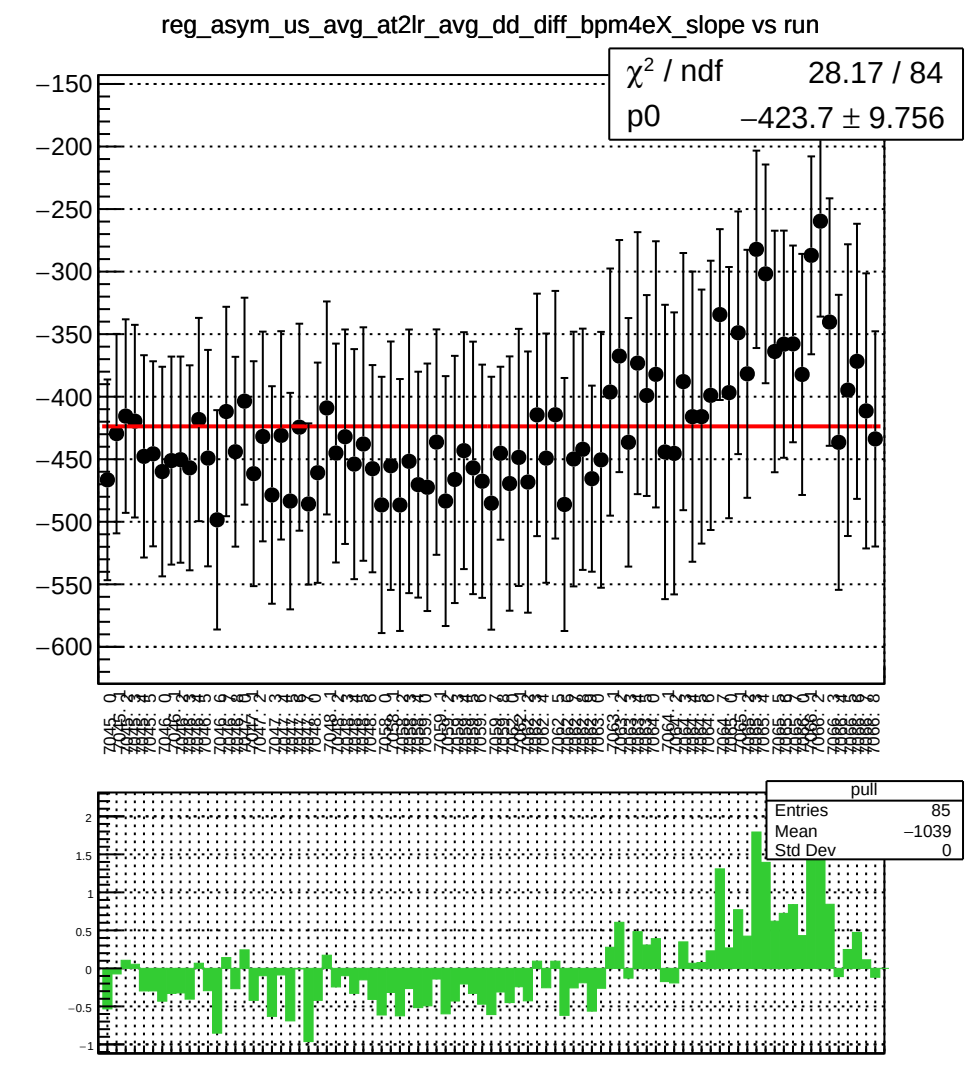

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.29 / 84
p0 194 ± 9.767
pull
Entries 85
Mean 466.5
Std Dev 0
pull1D
Entries 85
Mean 0.01571
Std Dev 0.4097

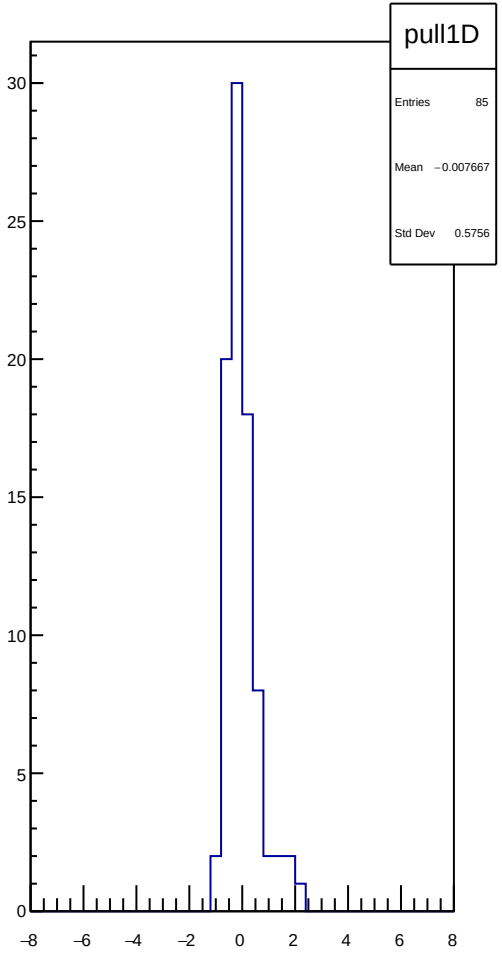

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 12.8 / 84
p0 −300.4 ± 0.4558
−290
−295
−300
−305
−310
pull
Entries 85
Mean 318.6
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 85
Mean 0.01818
Std Dev 0.3877
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

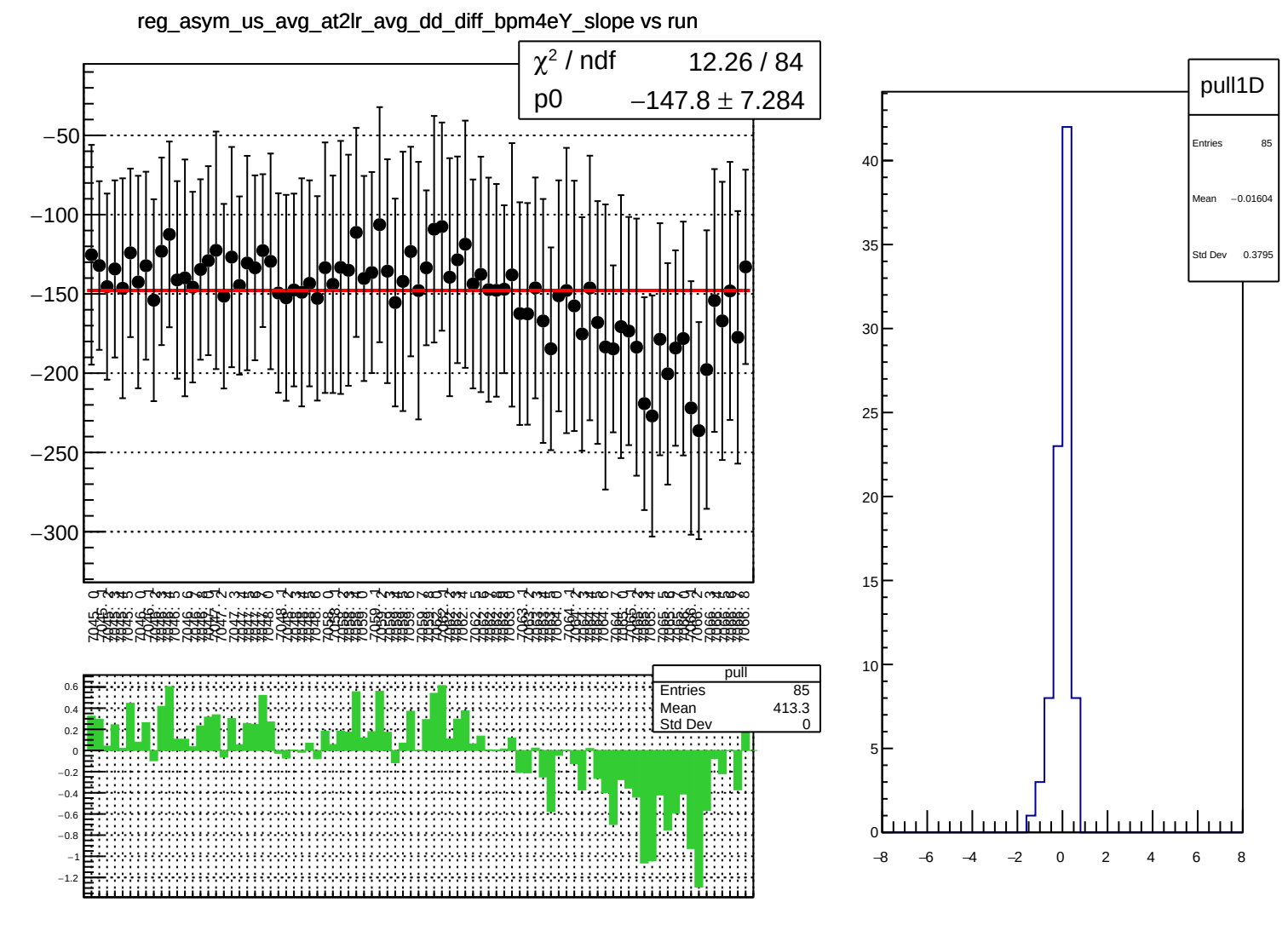

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 30.26 / 84
p0 424.8 ± 10.27
600
500
400
300
200
pull
Entries 85
Mean −1174
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

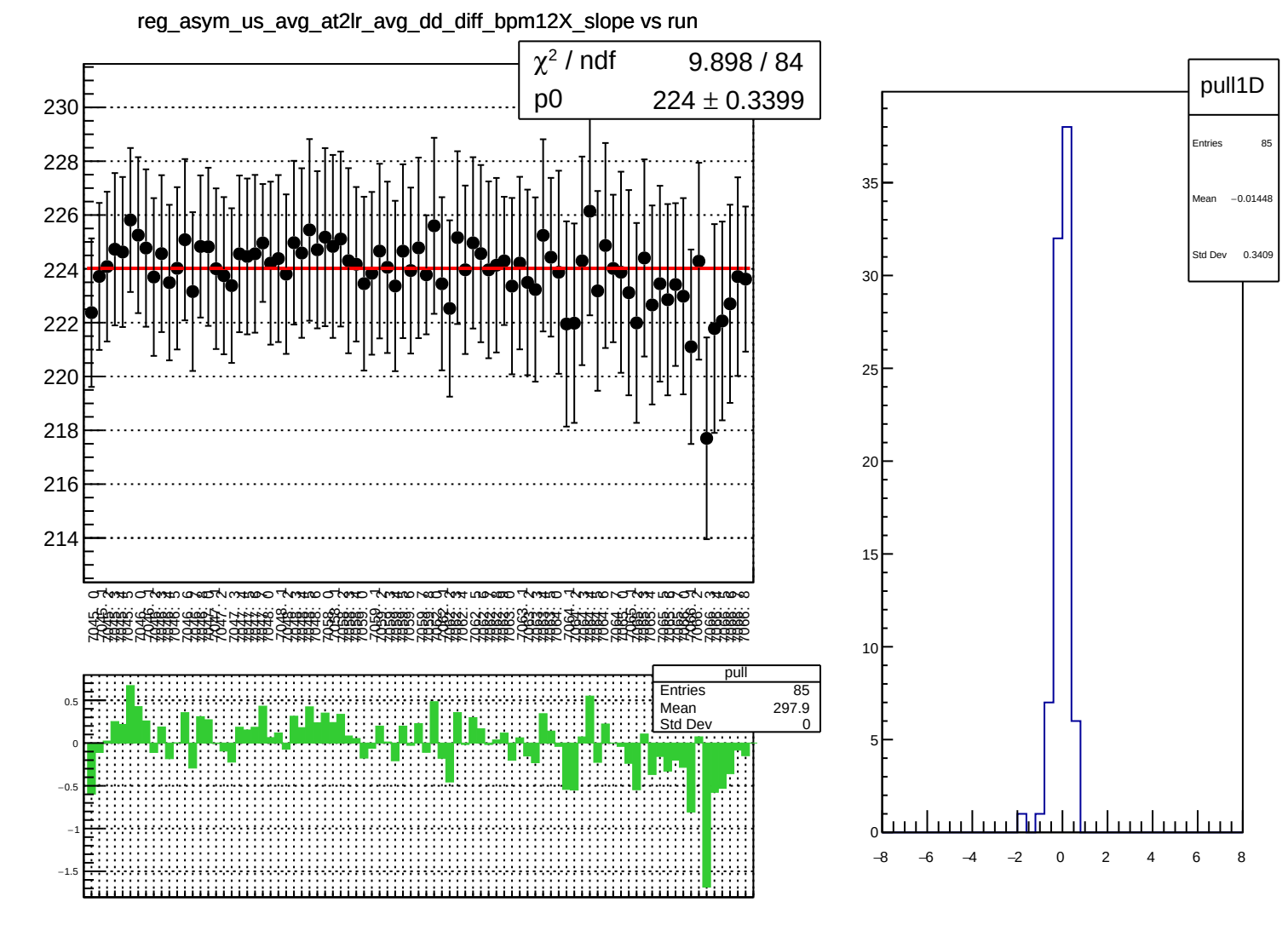

pull1D
Entries 85
Mean 0.007742
Std Dev 0.5966
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

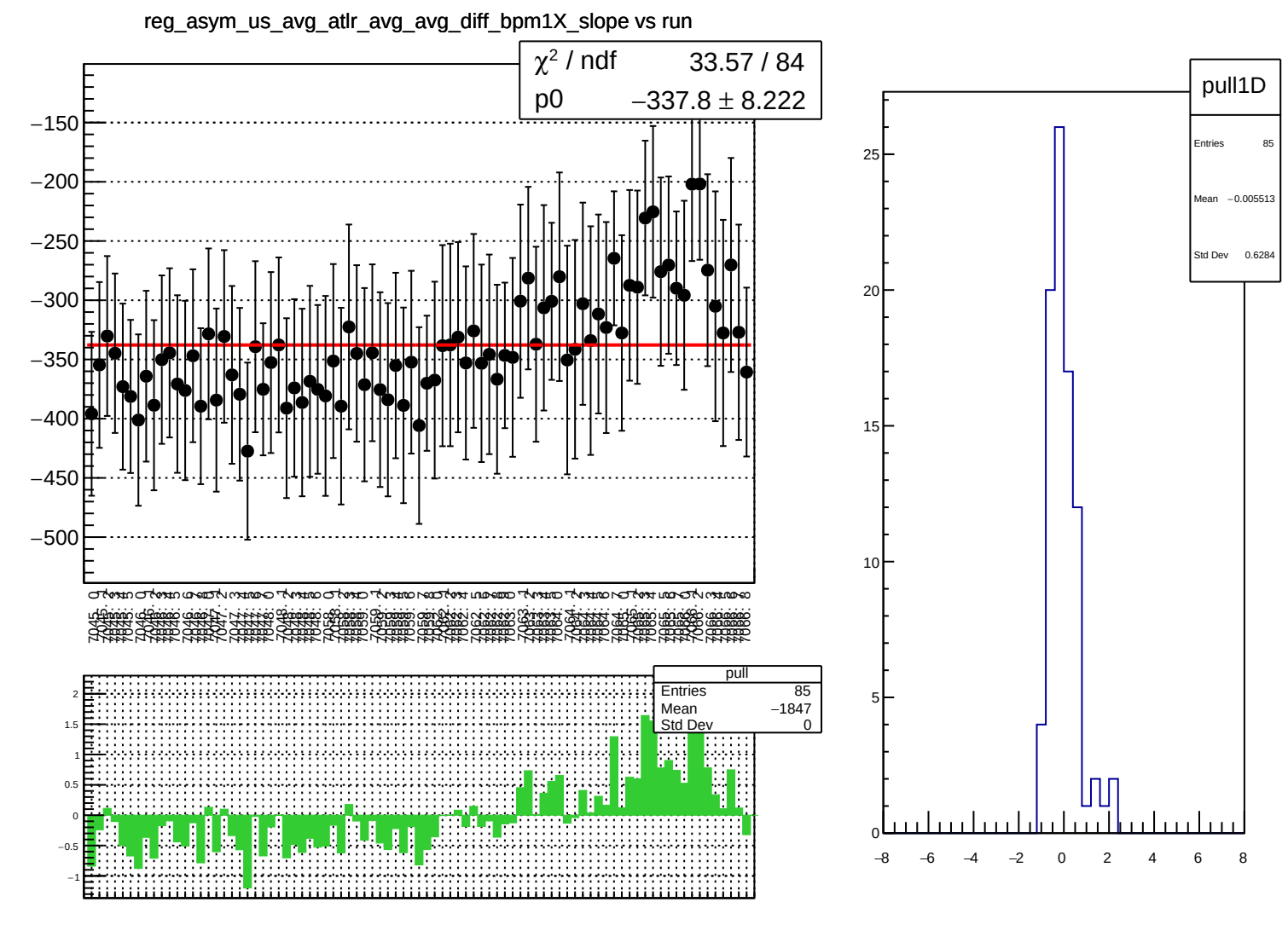

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.34 / 84
p0 21.64 ± 6.839
150
100
50
0
−50
−100
pull
Entries 85
Mean 405.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.01214
Std Dev 0.3313
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

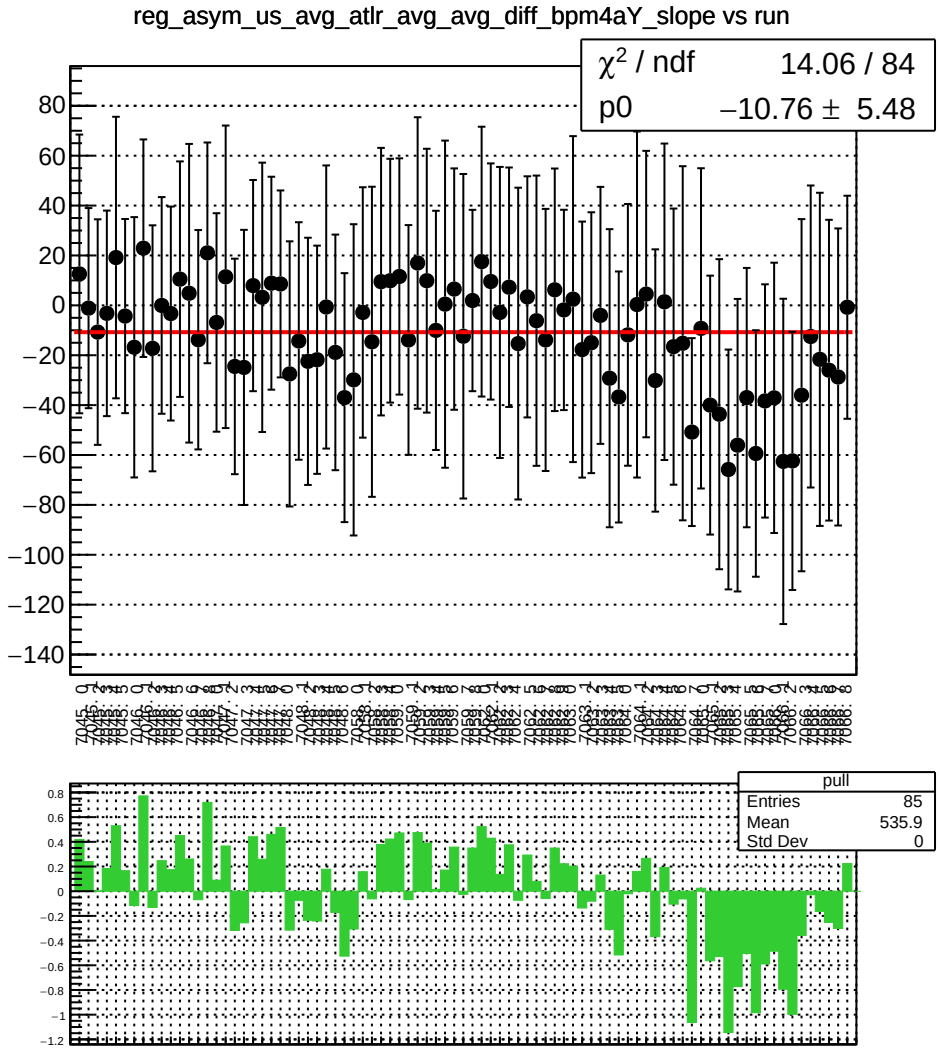

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.17 / 84
p0 −423.7 ± 9.756
pull
Entries 85
Mean −1039
Std Dev 0

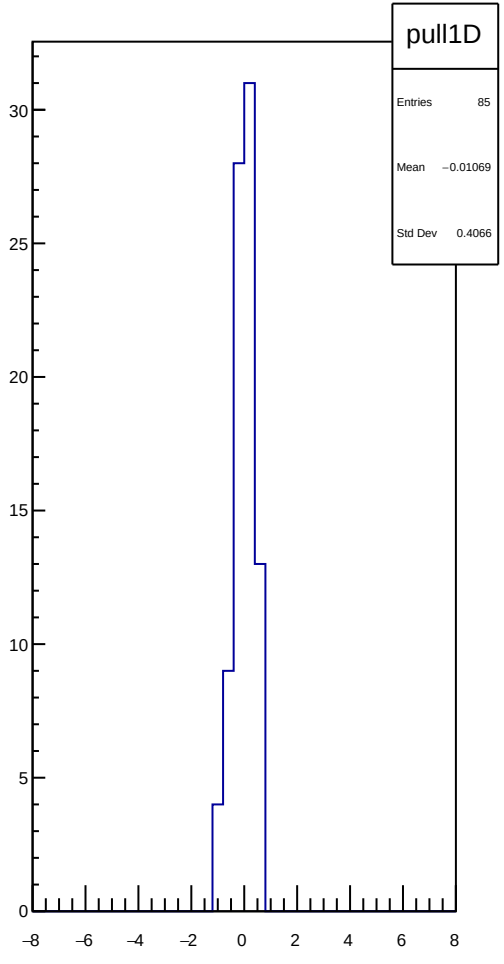

pull1D
Entries 85
Mean −0.007667
Std Dev 0.5756

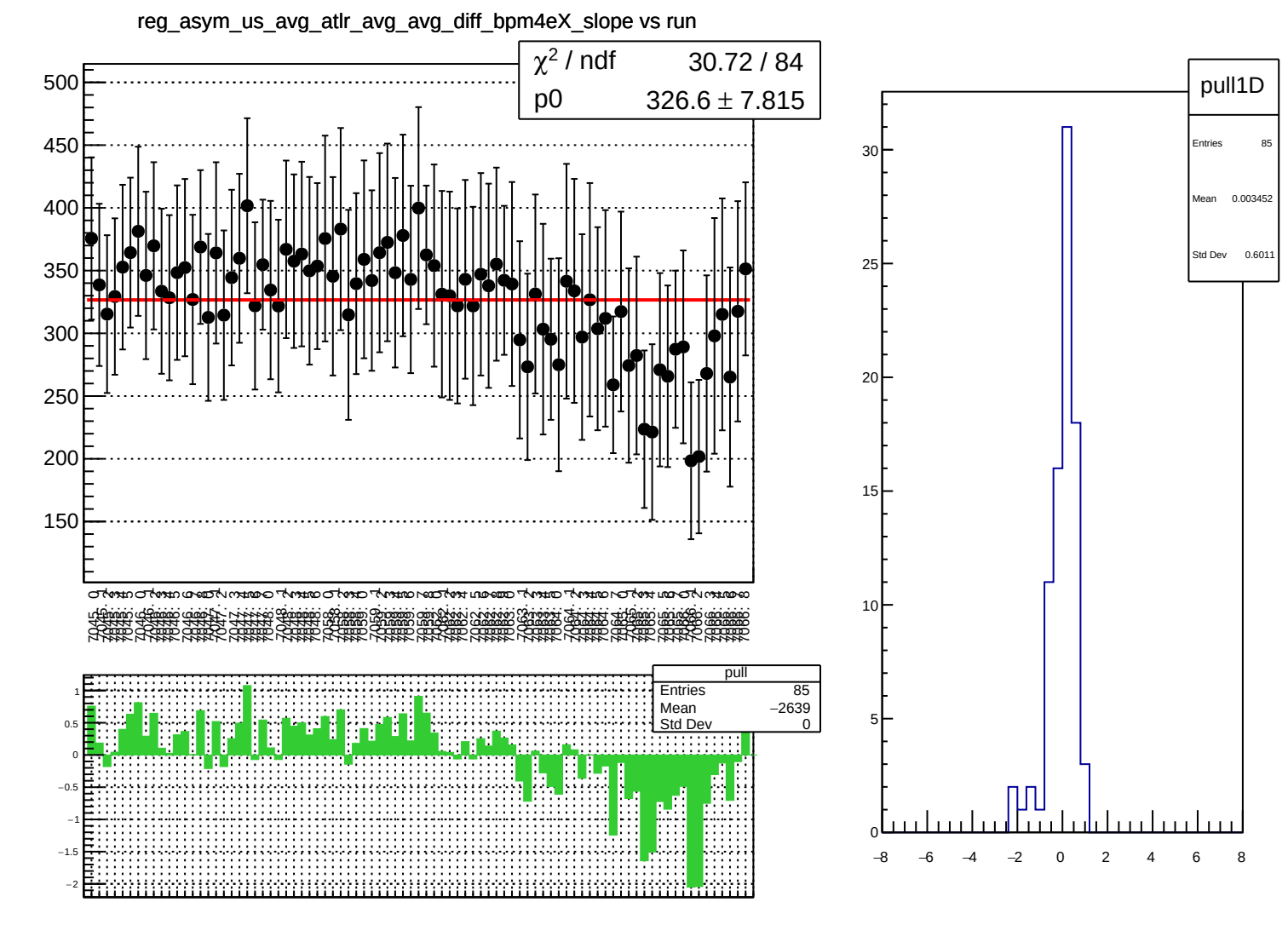

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.26 / 84
p0 −147.8 ± 7.284
pull
Entries 85
Mean 413.3
Std Dev 0
pull1D
Entries 85
Mean −0.01604
Std Dev 0.3795

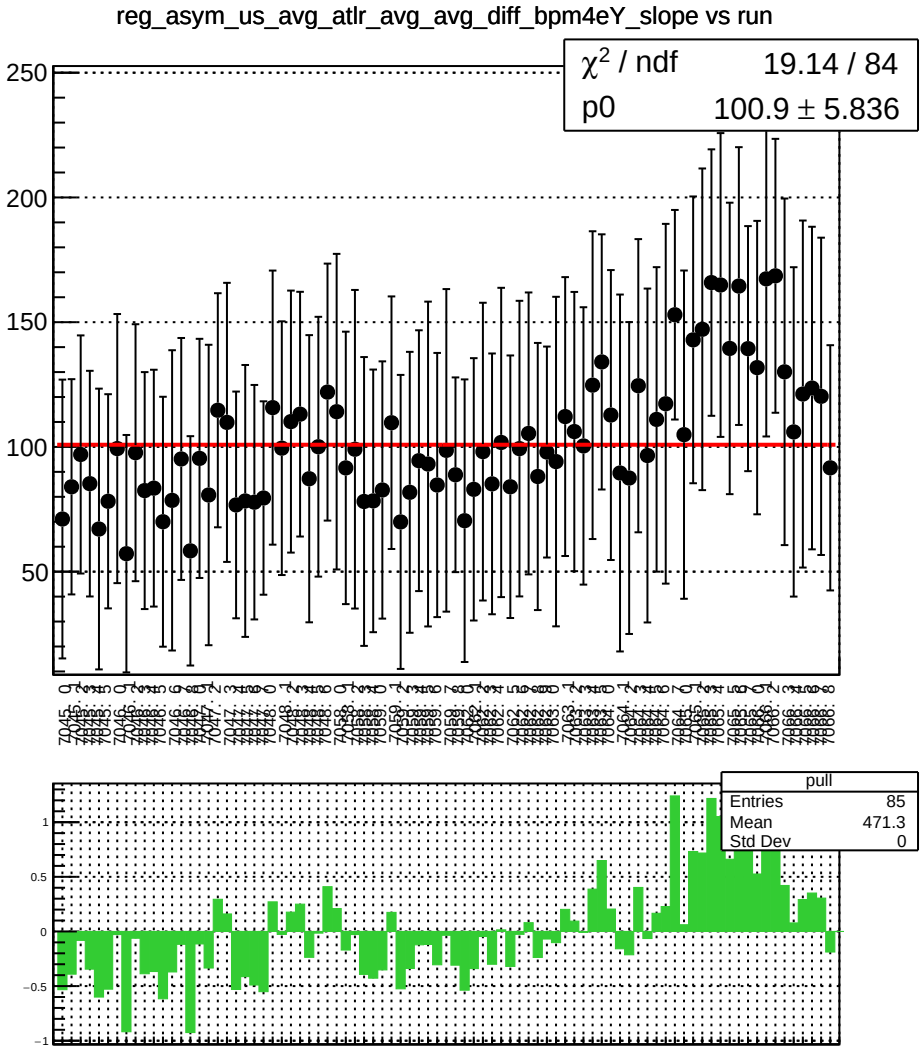

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 9.898 / 84
p0 224 ± 0.3399
230
228
226
224
222
220
218
216
214
pull
Entries 85
Mean 297.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.01448
Std Dev 0.3409
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

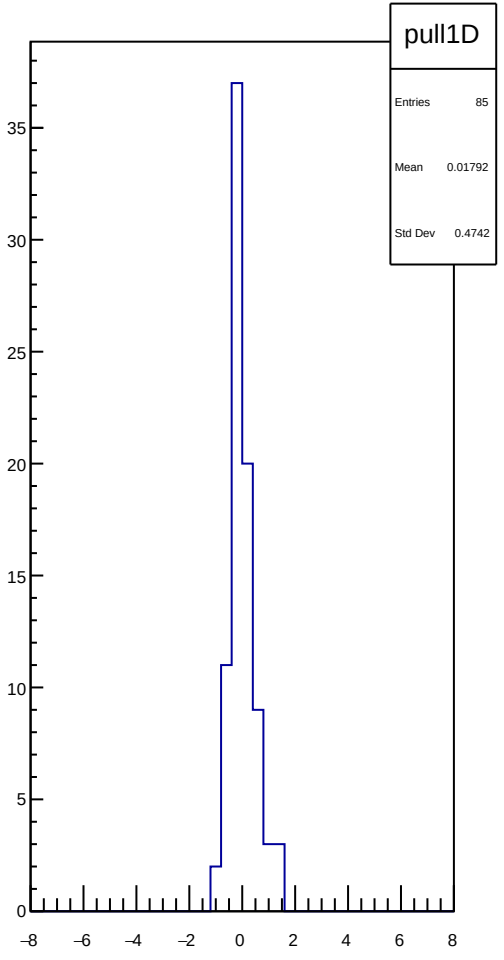

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.57 / 84
p0 −337.8 ± 8.222
pull
Entries 85
Mean −1847
Std Dev 0
pull1D
Entries 85
Mean −0.005513
Std Dev 0.6284

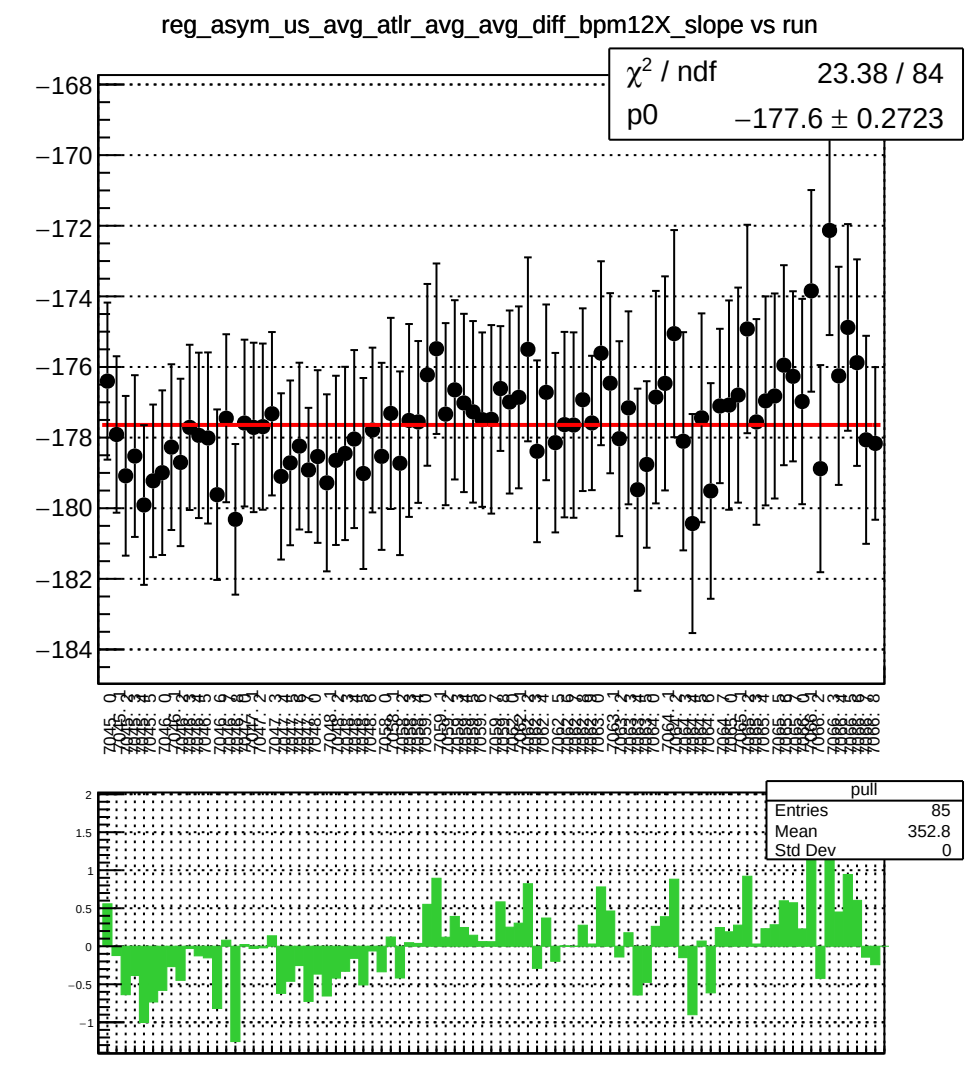

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.06 / 84
p0 −10.76 ± 5.48
pull
Entries 85
Mean 535.9
Std Dev 0

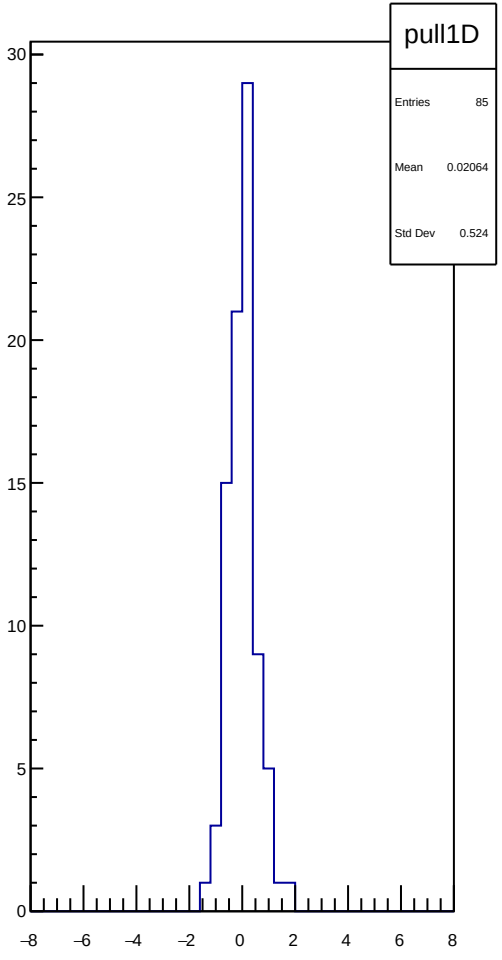

pull1D
Entries 85
Mean −0.01069
Std Dev 0.4066

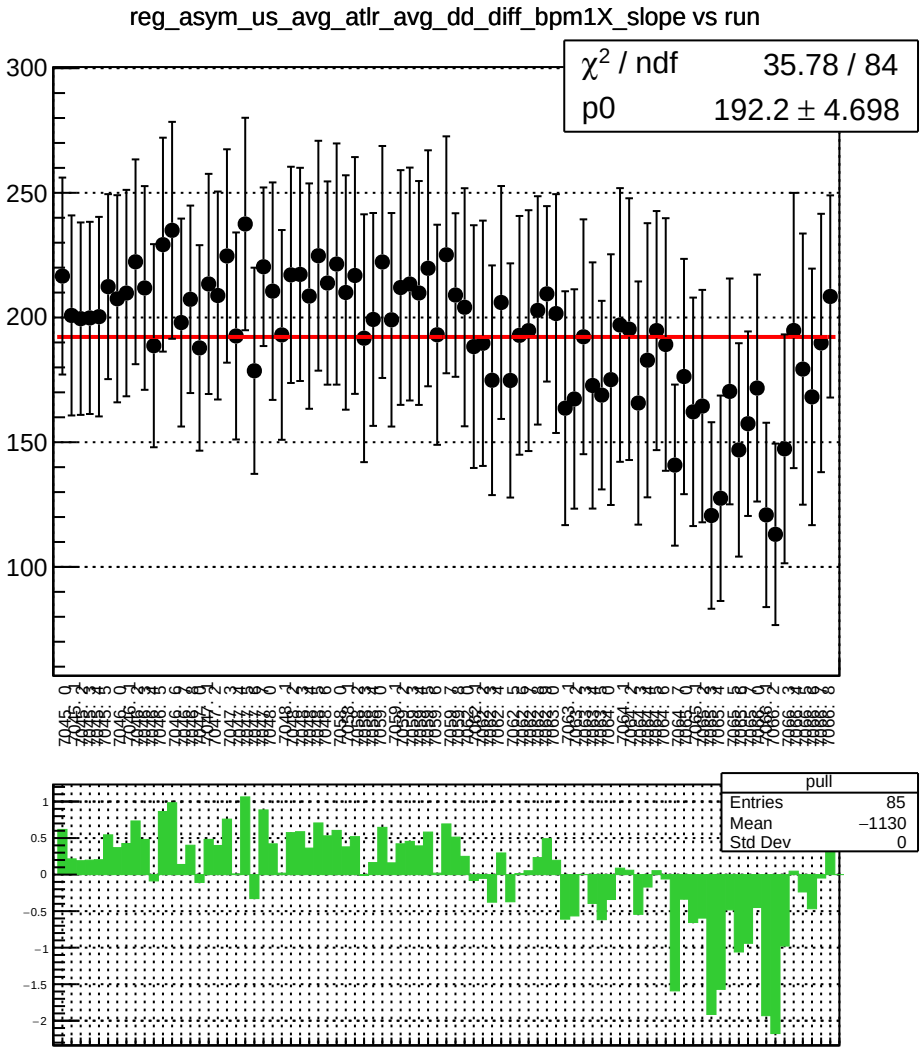

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.72 / 84
p0 326.6 ± 7.815
pull
Entries 85
Mean −2639
Std Dev 0
pull1D
Entries 85
Mean 0.003452
Std Dev 0.6011

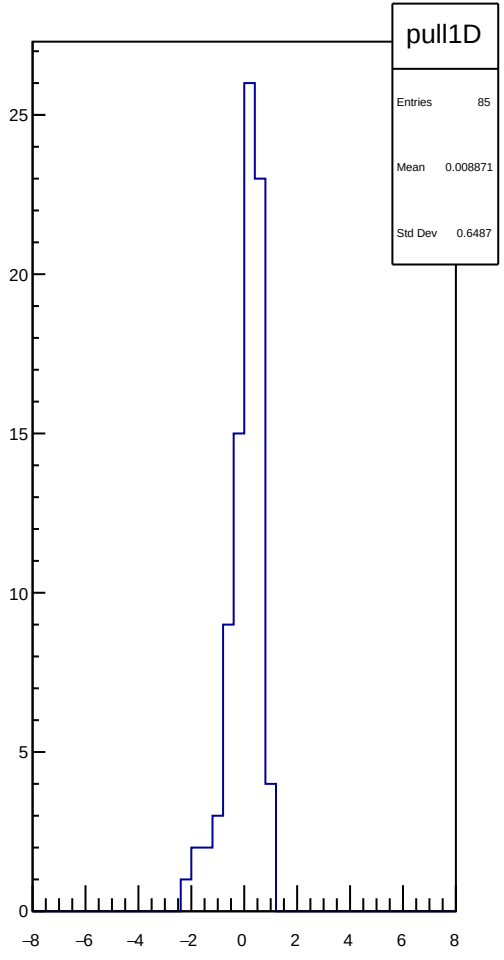

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.14 / 84
p0 100.9 ± 5.836
250
200
150
100
50
pull
Entries 85
Mean 471.3
Std Dev 0
1
0.5
0
−0.5
−1

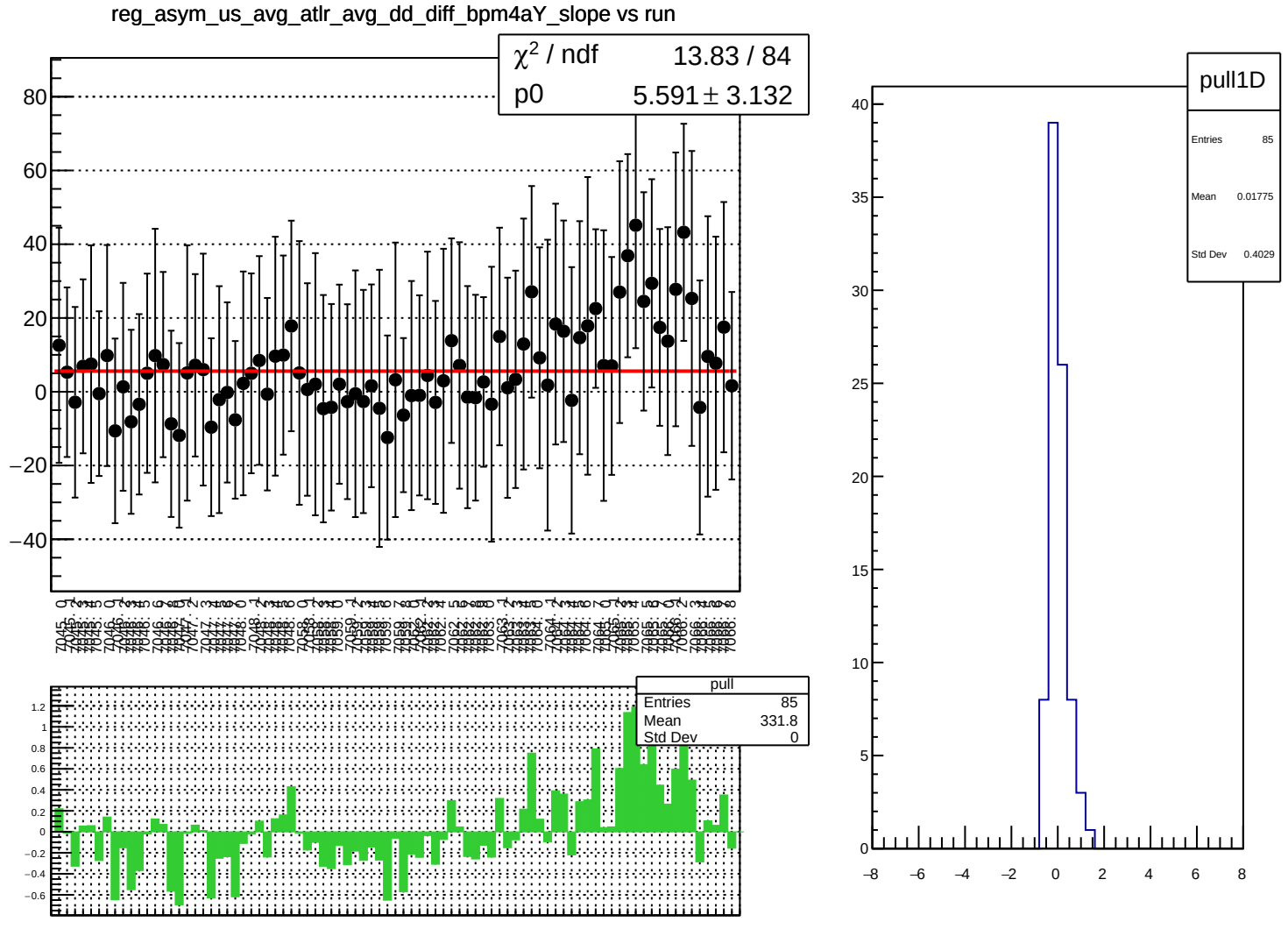

pull1D
Entries 85
Mean 0.01792
Std Dev 0.4742
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

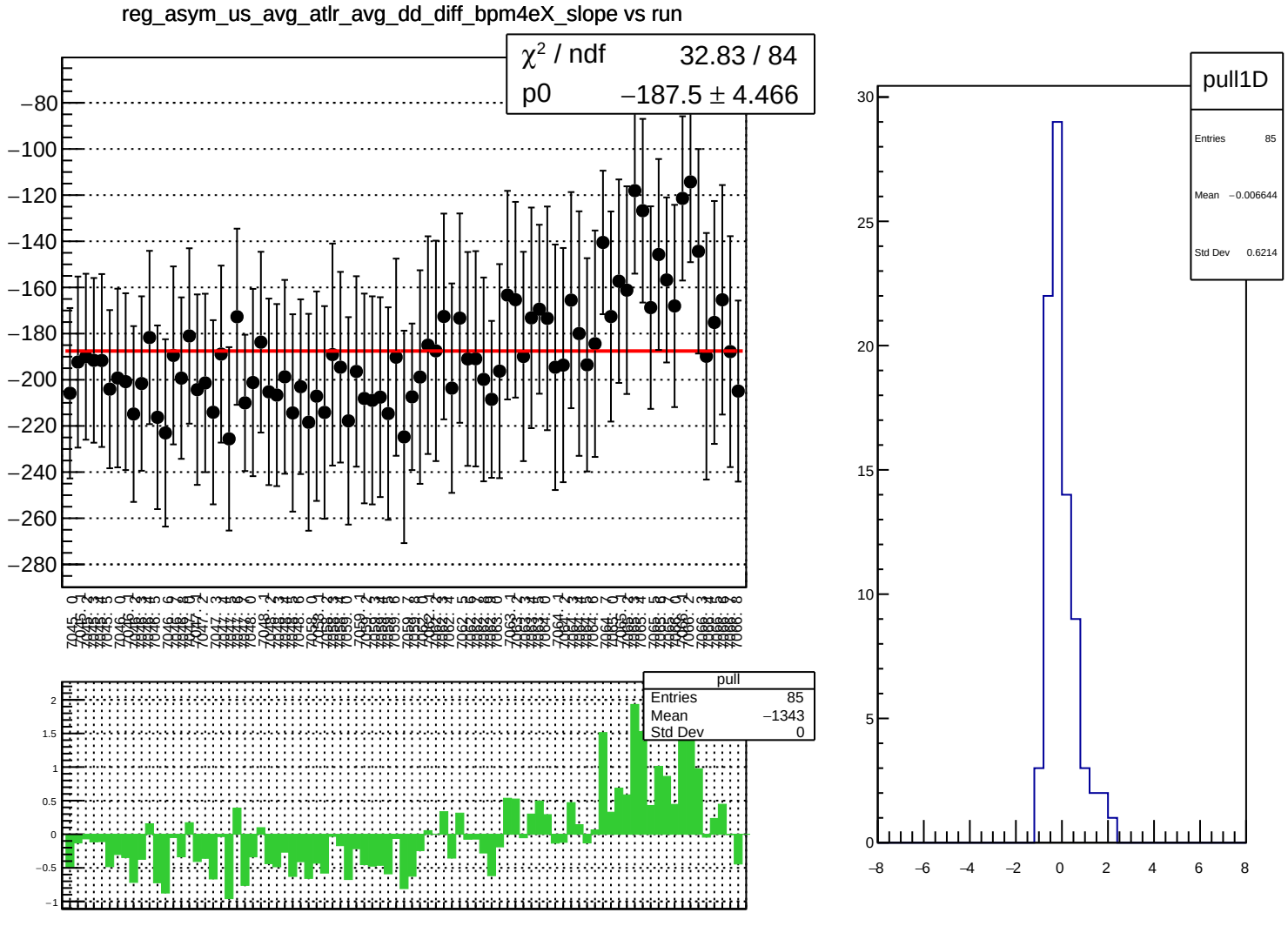

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 23.38 / 84
p0 −177.6 ± 0.2723
pull
Entries 85
Mean 352.8
Std Dev 0

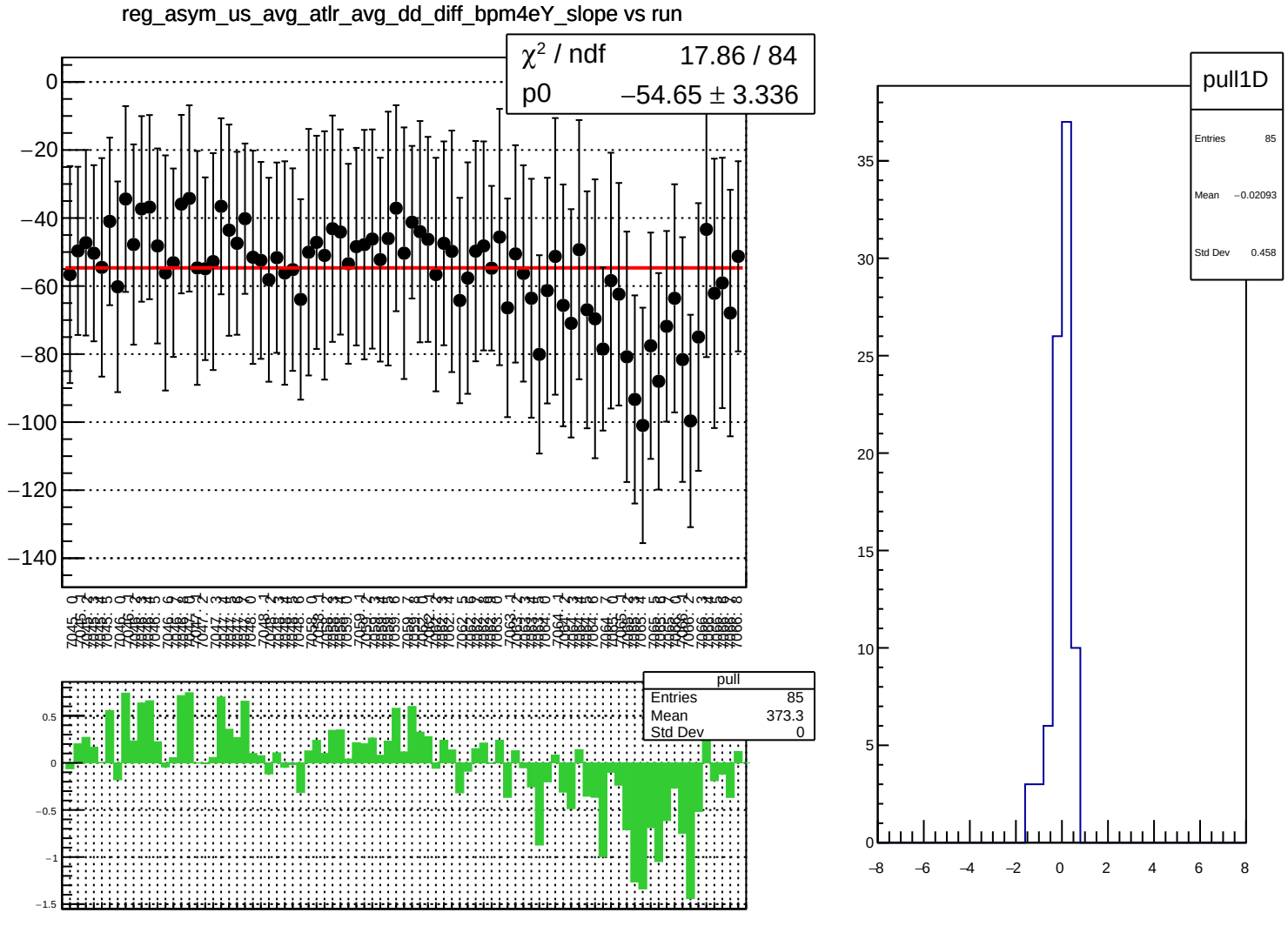

pull1D
Entries 85
Mean 0.02064
Std Dev 0.524

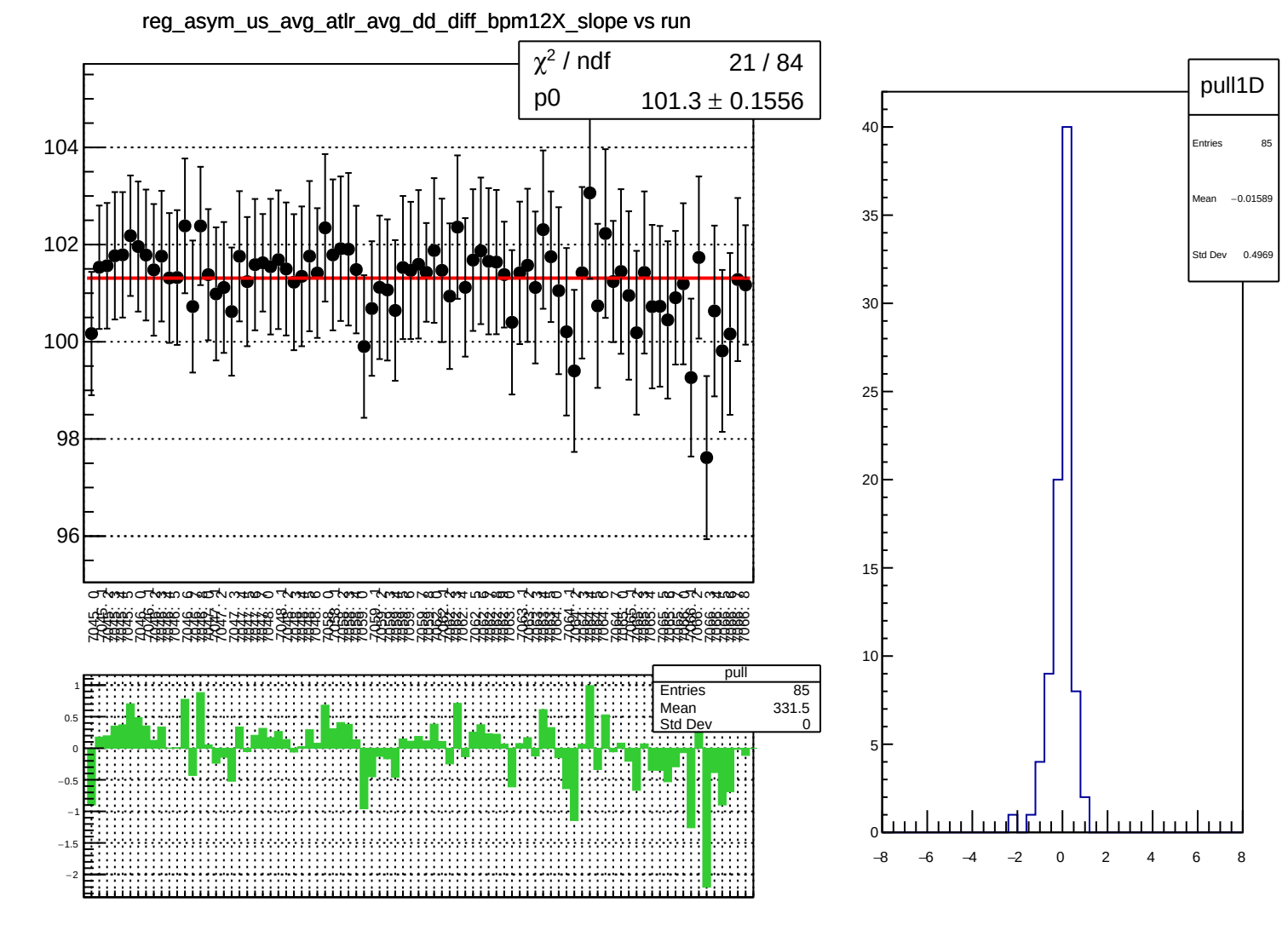

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 35.78 / 84
p0 192.2 ± 4.698
300
250
200
150
100
pull
Entries 85
Mean −1130
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

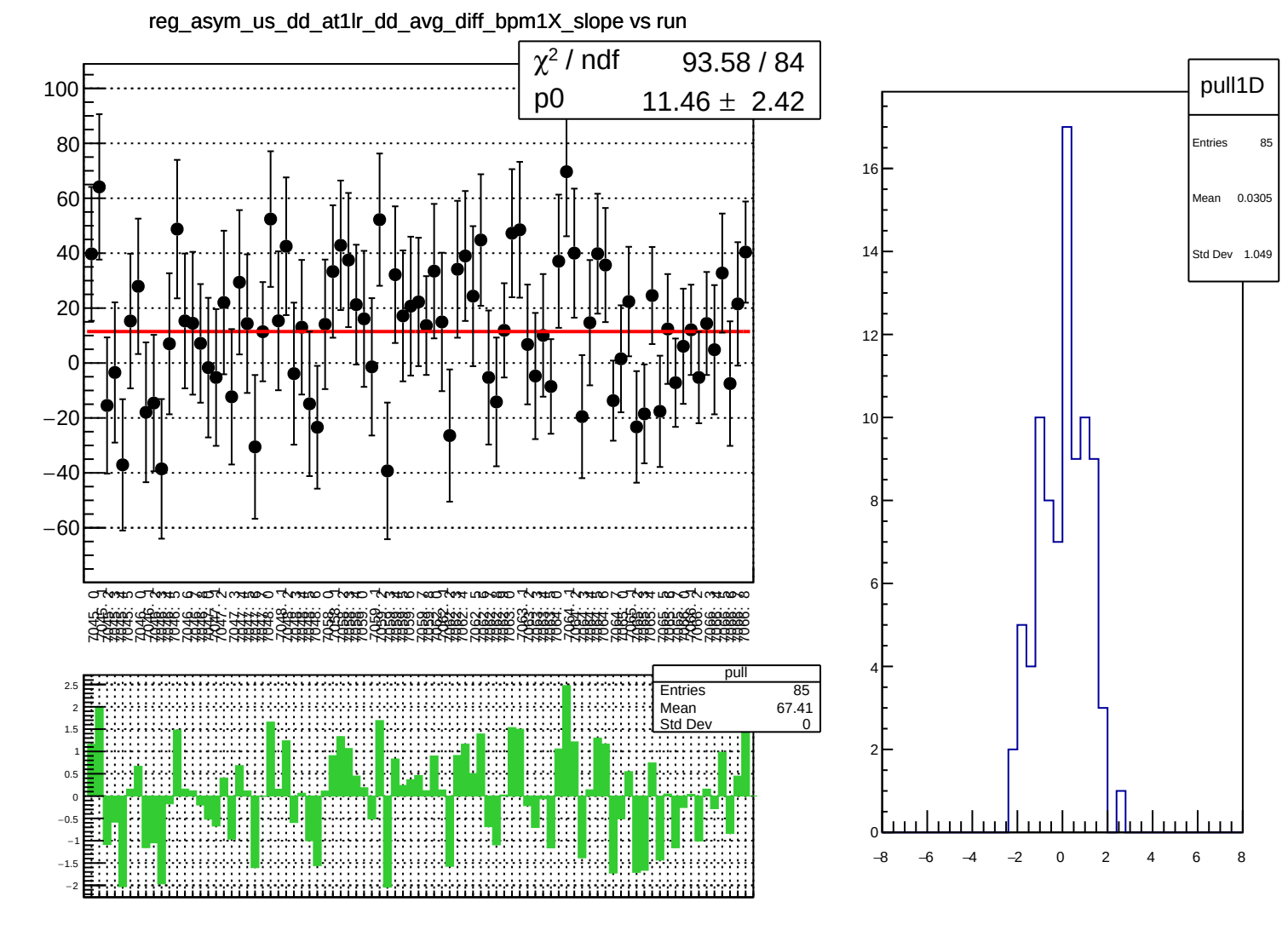

pull1D
Entries 85
Mean 0.008871
Std Dev 0.6487
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

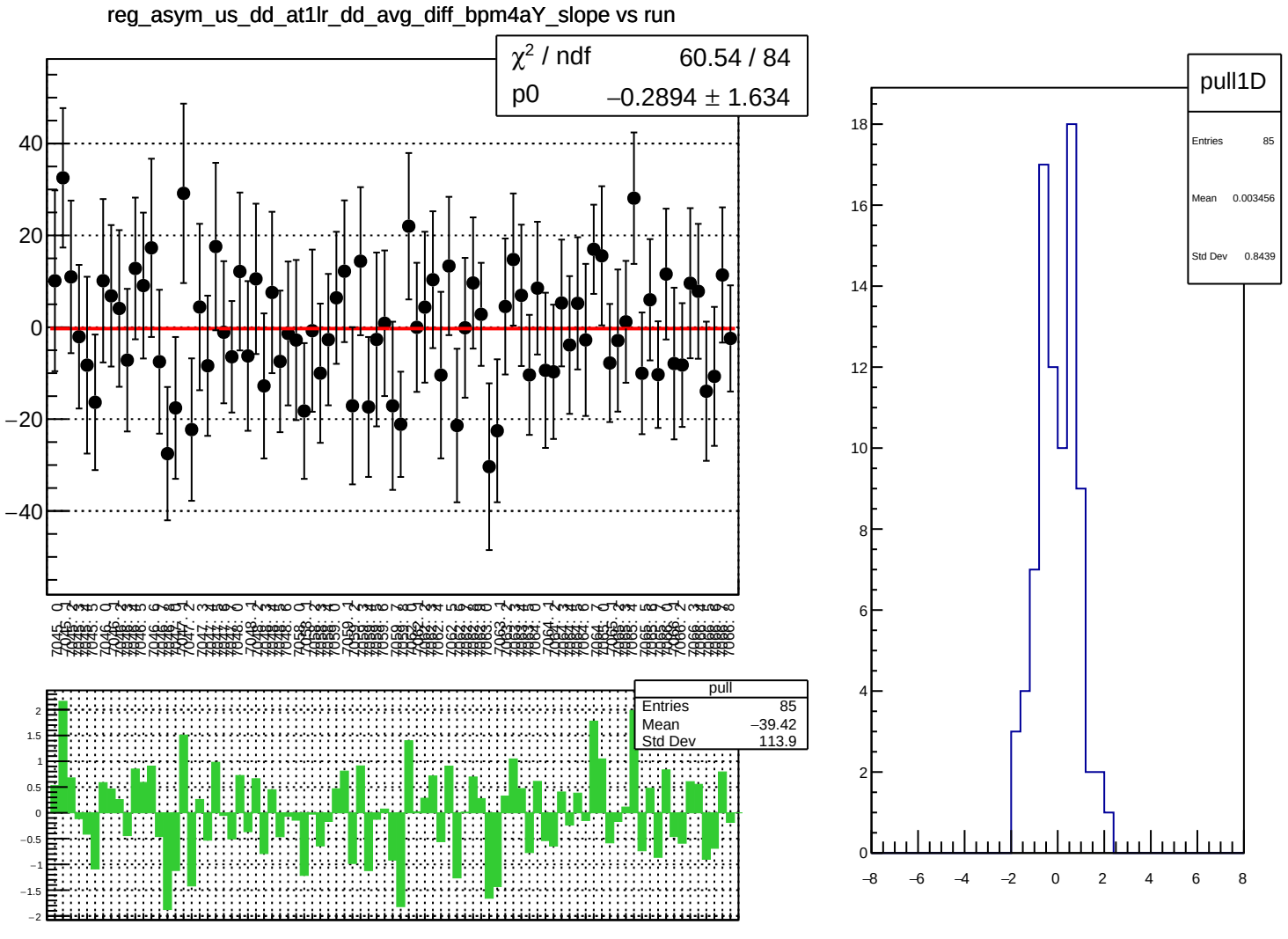

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.83 / 84
p0 5.591 ± 3.132
pull
Entries 85
Mean 331.8
Std Dev 0
pull1D
Entries 85
Mean 0.01775
Std Dev 0.4029

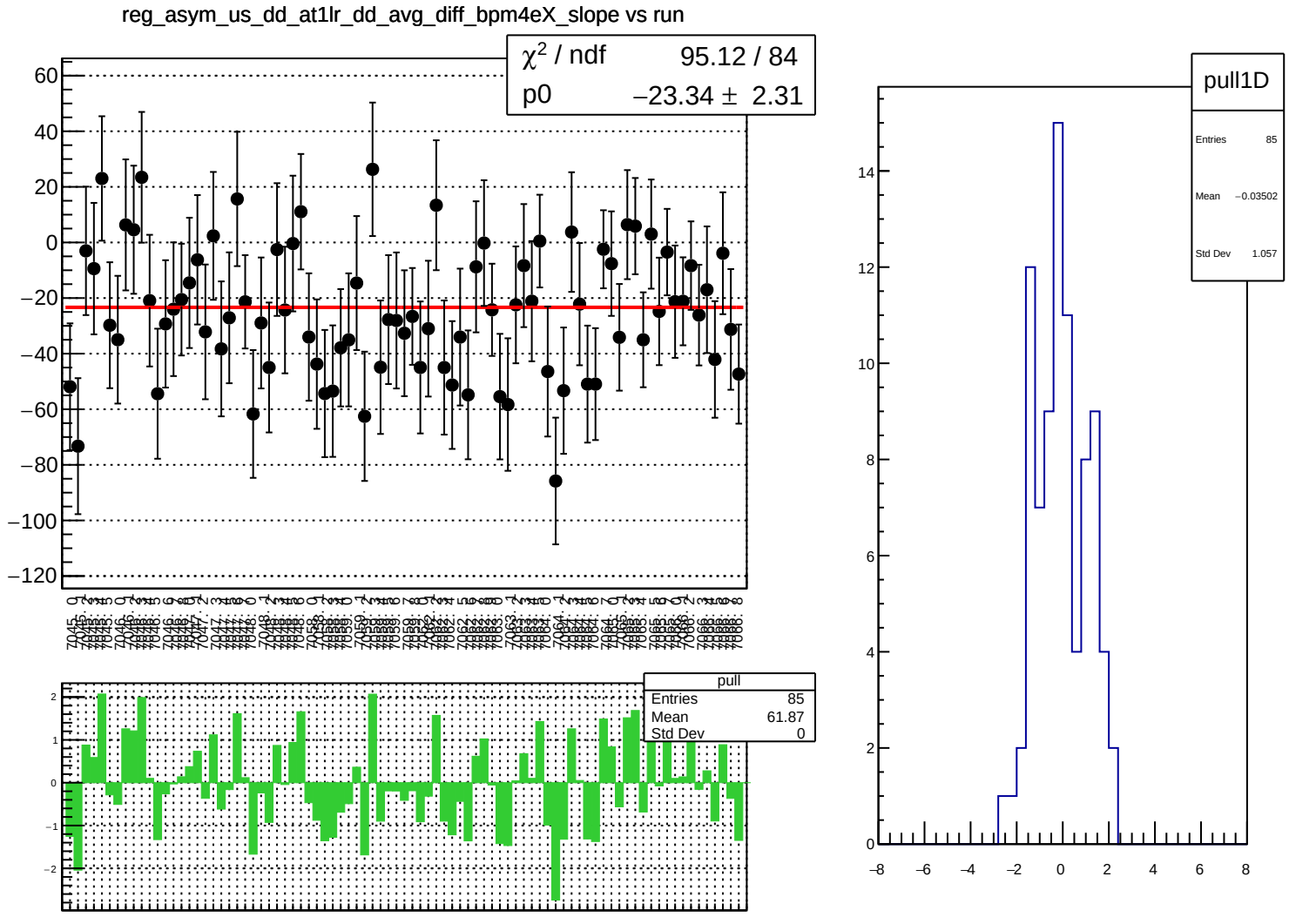

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.83 / 84
p0 −187.5 ± 4.466
pull
Entries 85
Mean −1343
Std Dev 0
pull1D
Entries 85
Mean −0.006644
Std Dev 0.6214

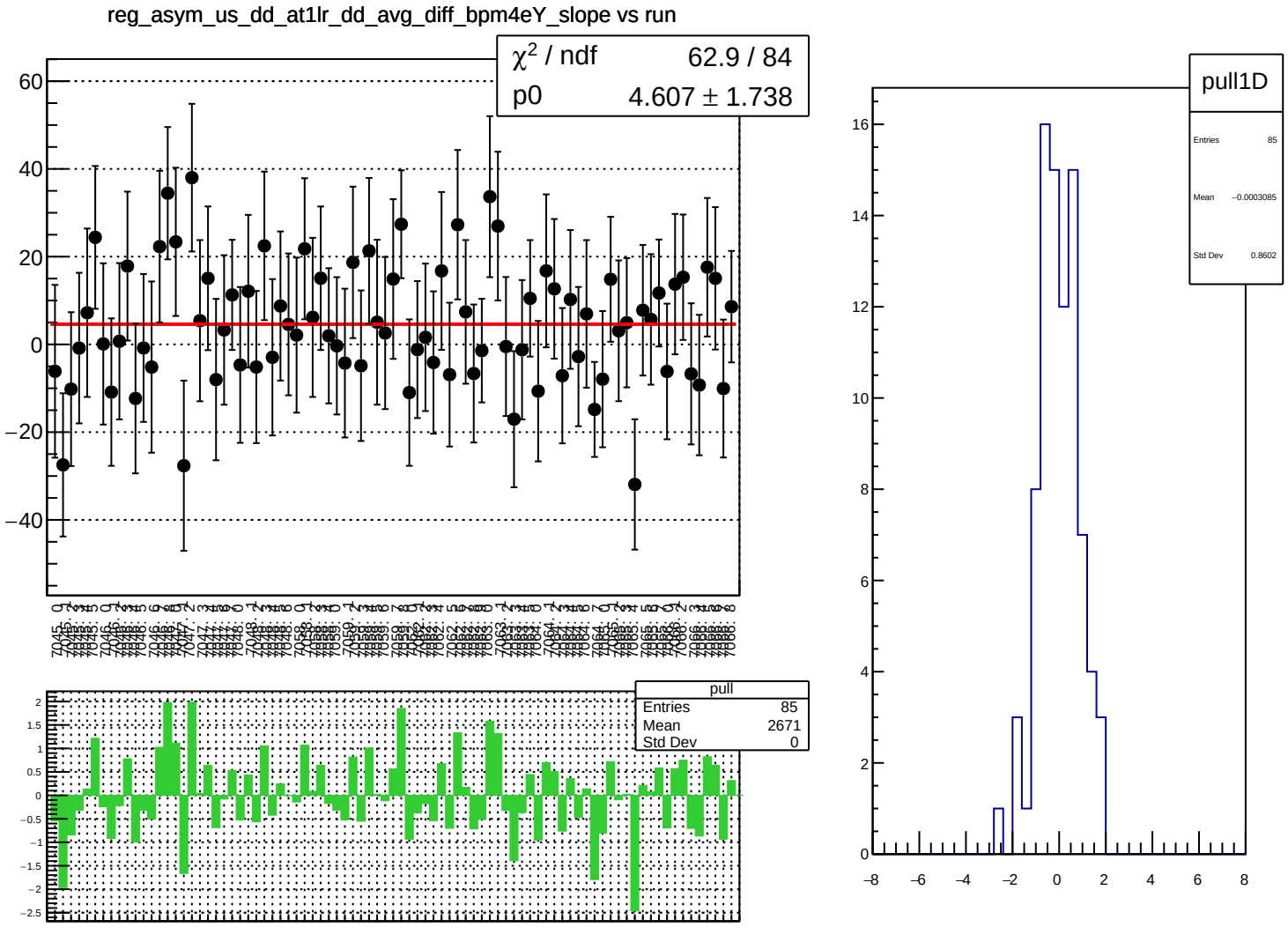

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.86 / 84
p0 −54.65 ± 3.336
pull
Entries 85
Mean 373.3
Std Dev 0
pull1D
Entries 85
Mean −0.02093
Std Dev 0.458

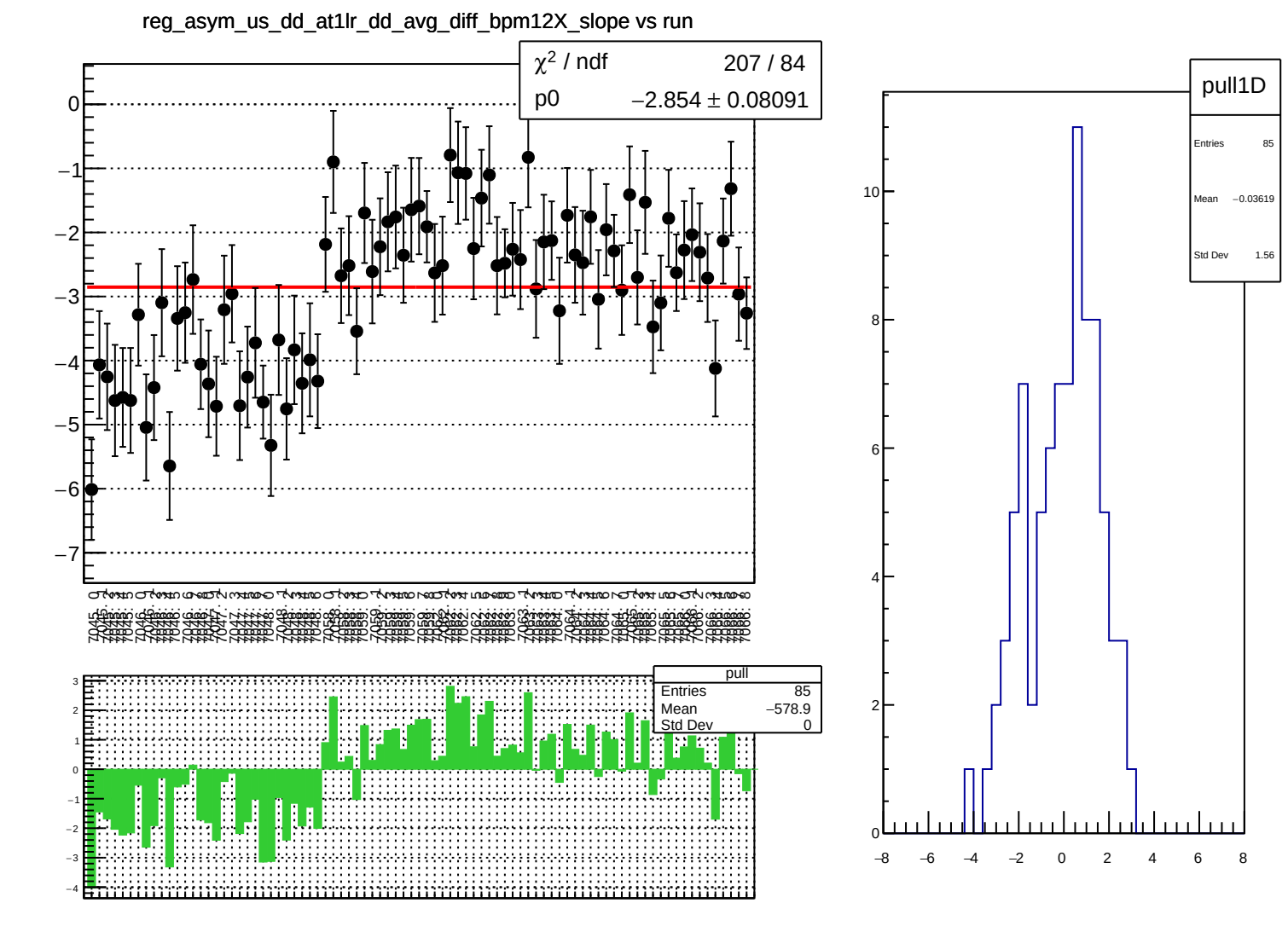

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 21 / 84
p0 101.3 ± 0.1556
104
102
100
98
96
pull
Entries 85
Mean 331.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.01589
Std Dev 0.4969
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

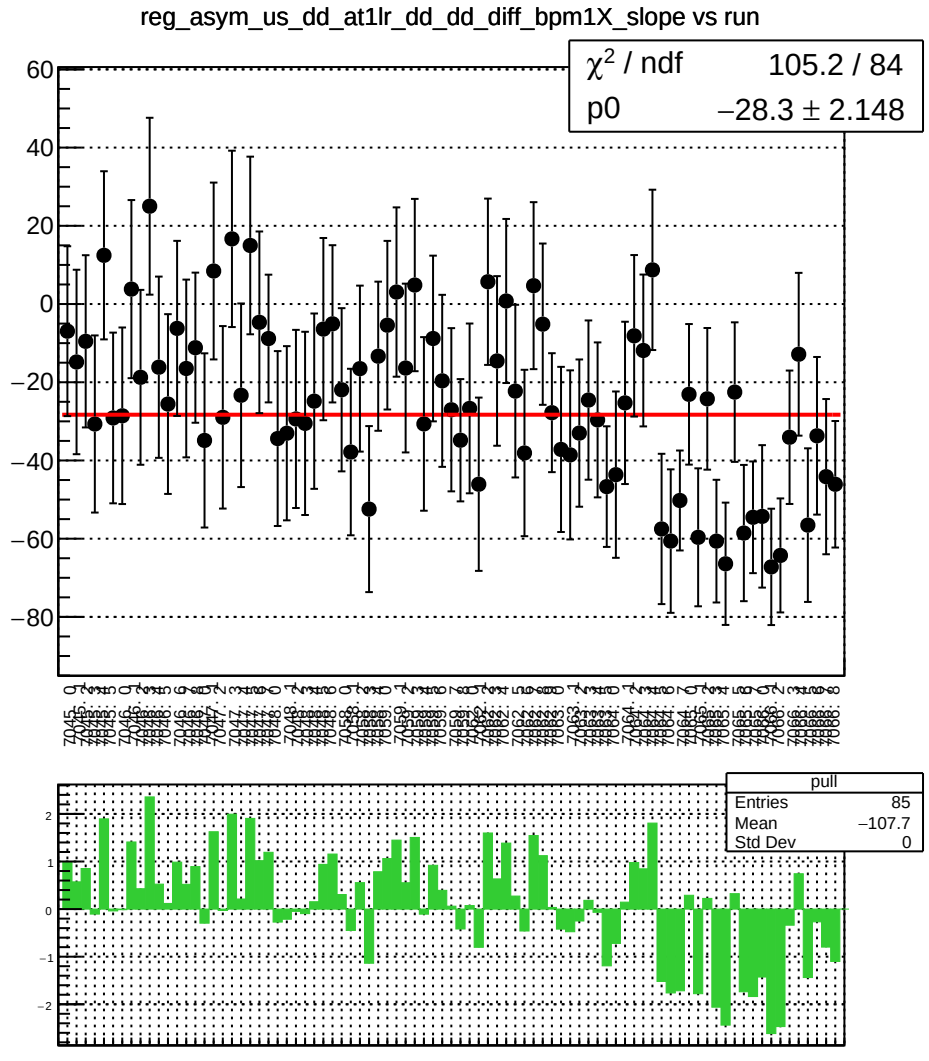

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 93.58 / 84
p0 11.46 ± 2.42
pull
Entries 85
Mean 67.41
Std Dev 0
pull1D
Entries 85
Mean 0.0305
Std Dev 1.049

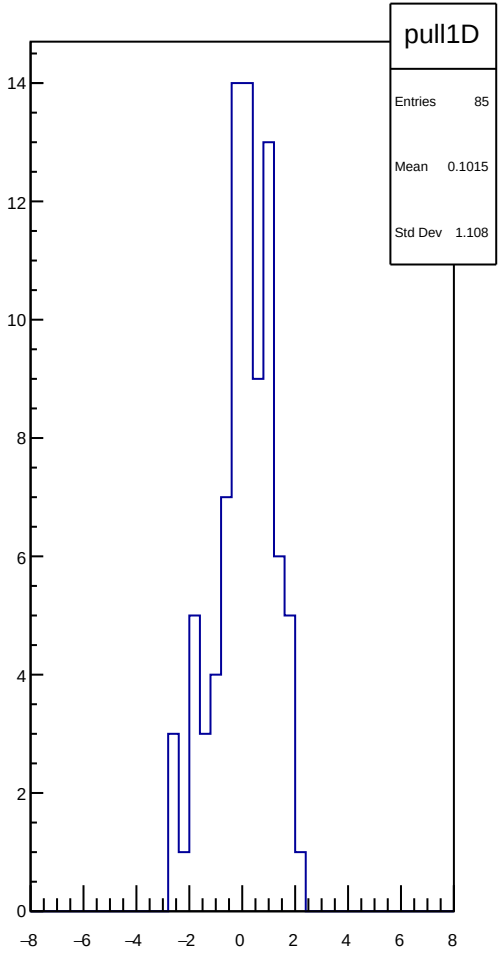

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.54 / 84
p0 −0.2894 ± 1.634
pull
Entries 85
Mean −39.42
Std Dev 113.9
pull1D
Entries 85
Mean 0.003456
Std Dev 0.8439

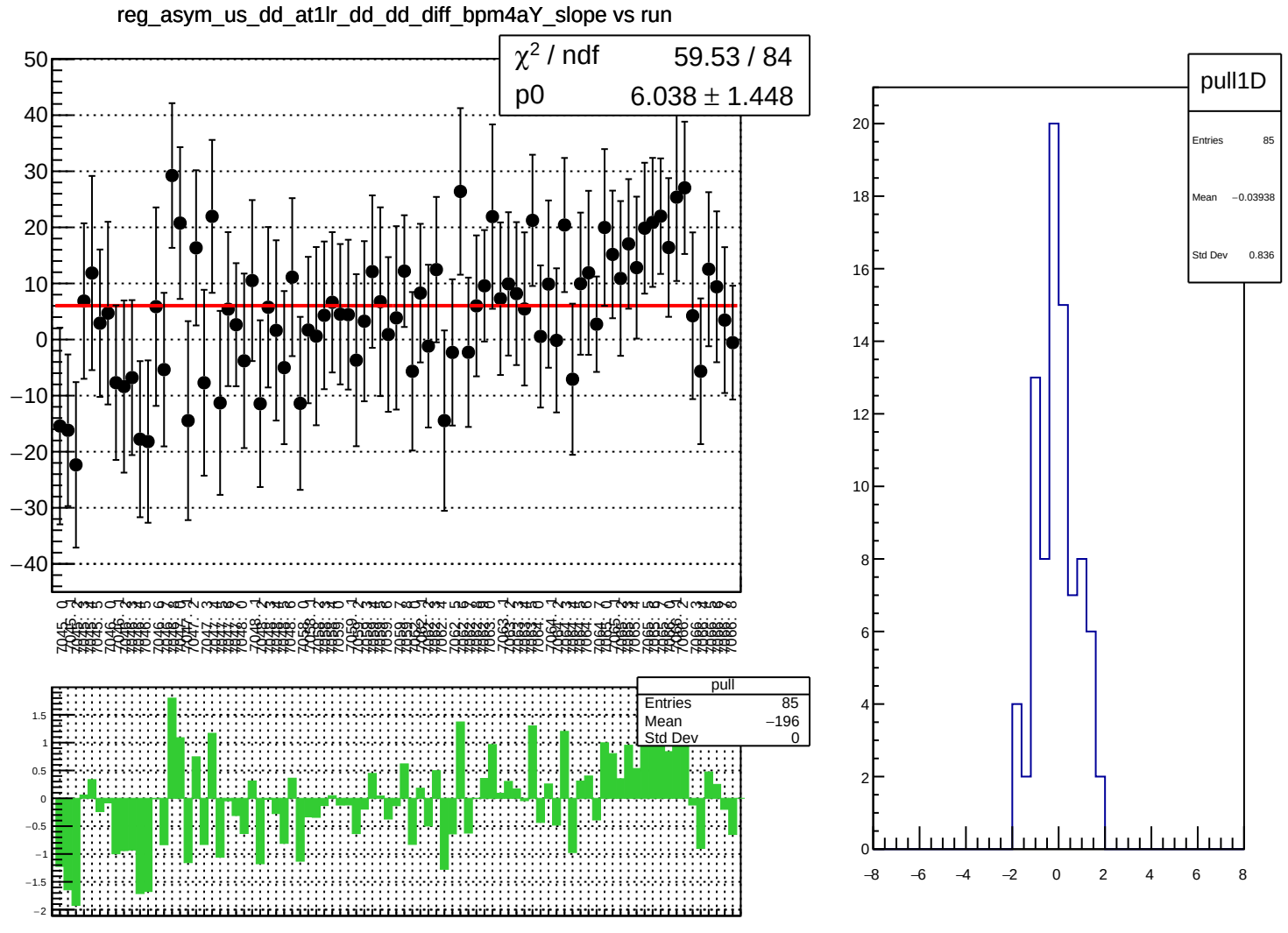

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.12 / 84
p0 −23.34 ± 2.31
pull
Entries 85
Mean 61.87
Std Dev 0
pull1D
Entries 85
Mean −0.03502
Std Dev 1.057

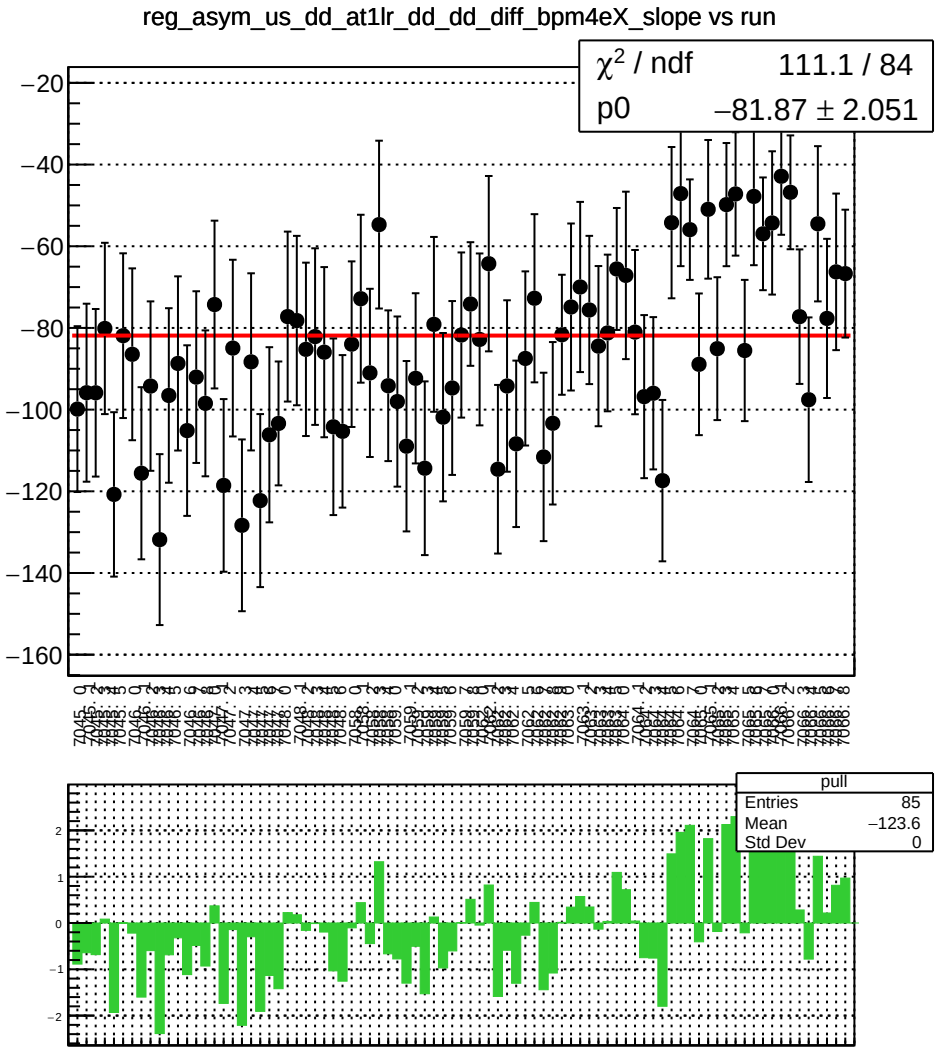

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.9 / 84
p0 4.607 ± 1.738
pull
Entries 85
Mean 2671
Std Dev 0
pull1D
Entries 85
Mean −0.0003085
Std Dev 0.8602

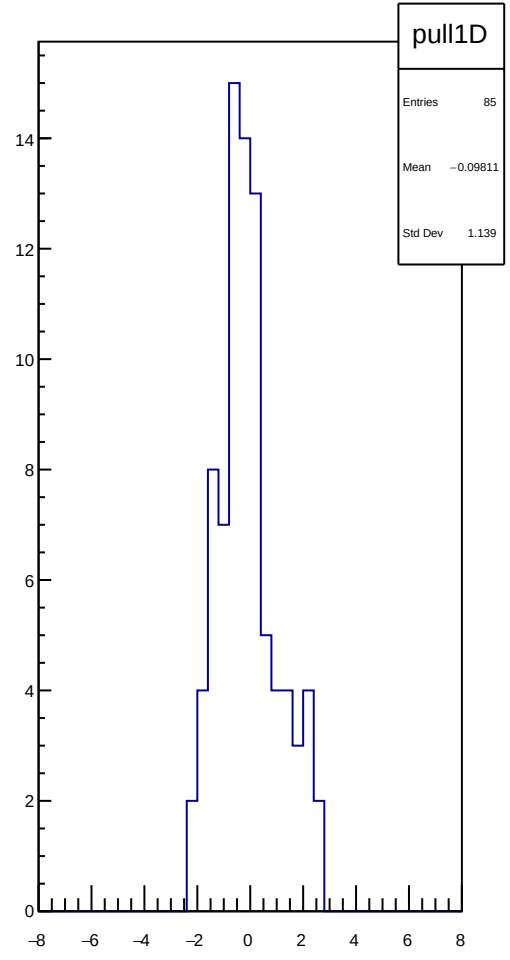

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 207 / 84
p0 −2.854 ± 0.08091
pull
Entries 85
Mean −578.9
Std Dev 0
pull1D
Entries 85
Mean −0.03619
Std Dev 1.56

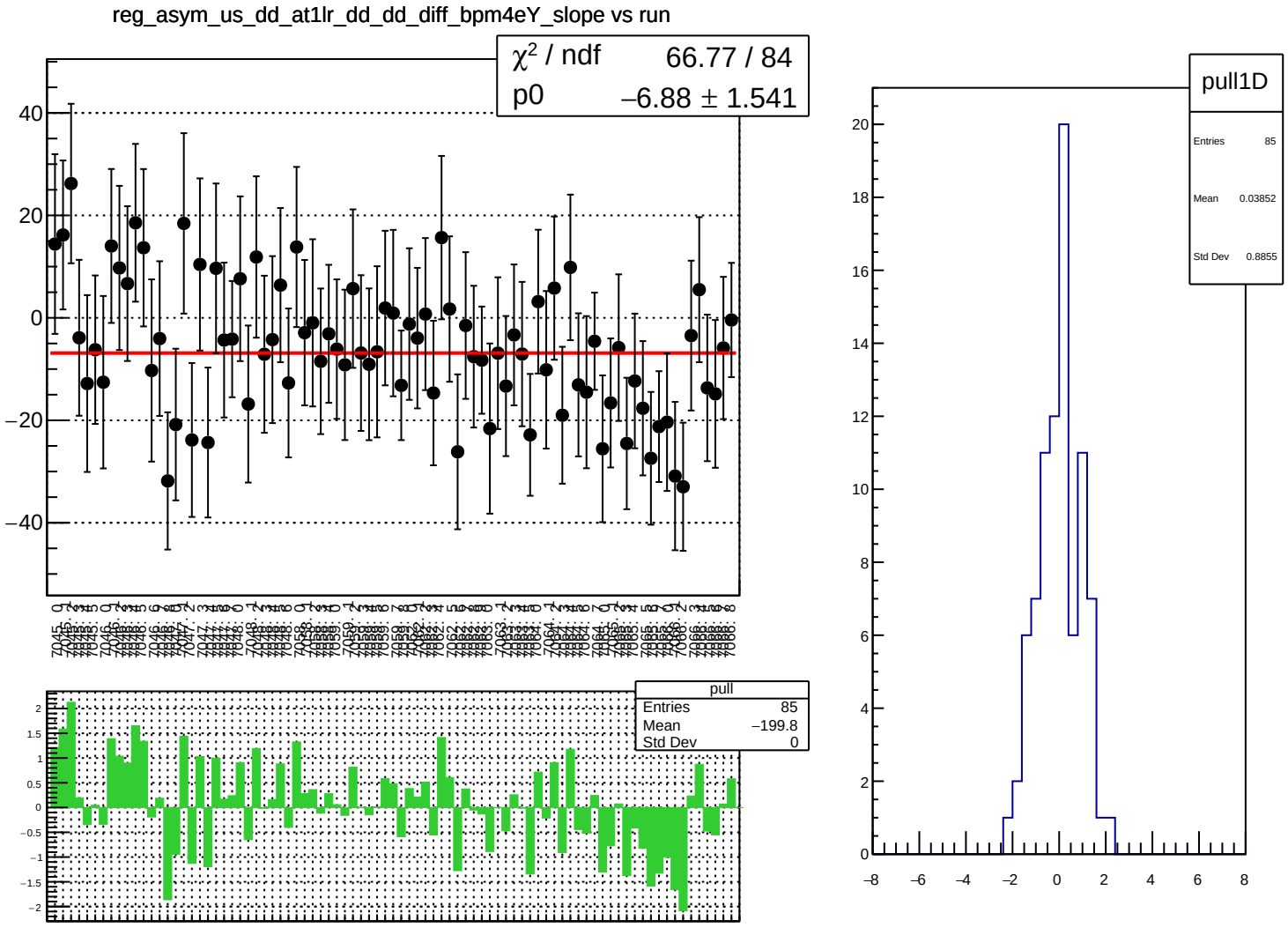

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 105.2 / 84
p0 −28.3 ± 2.148
pull
Entries 85
Mean −107.7
Std Dev 0

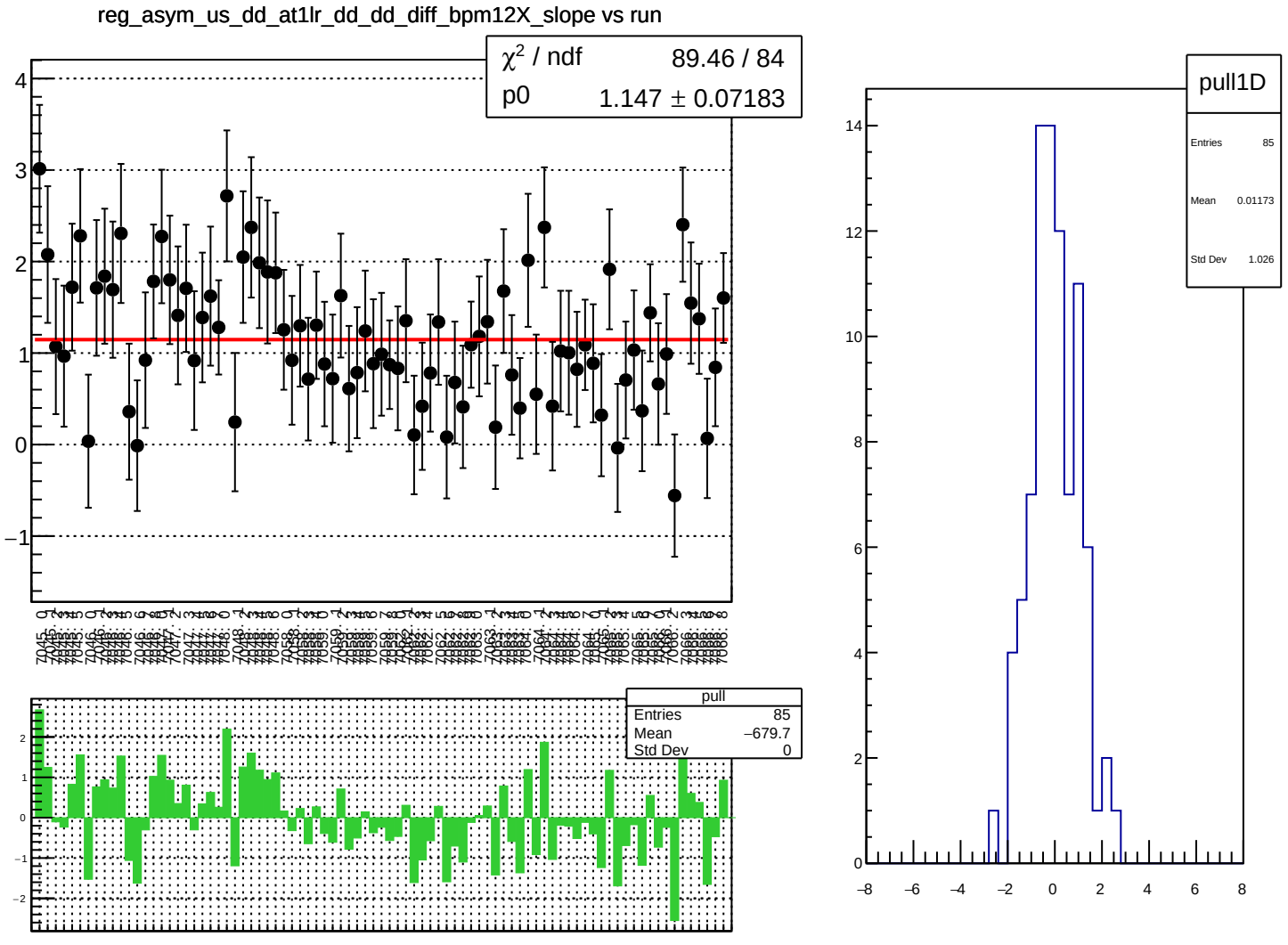

pull1D
Entries 85
Mean 0.1015
Std Dev 1.108

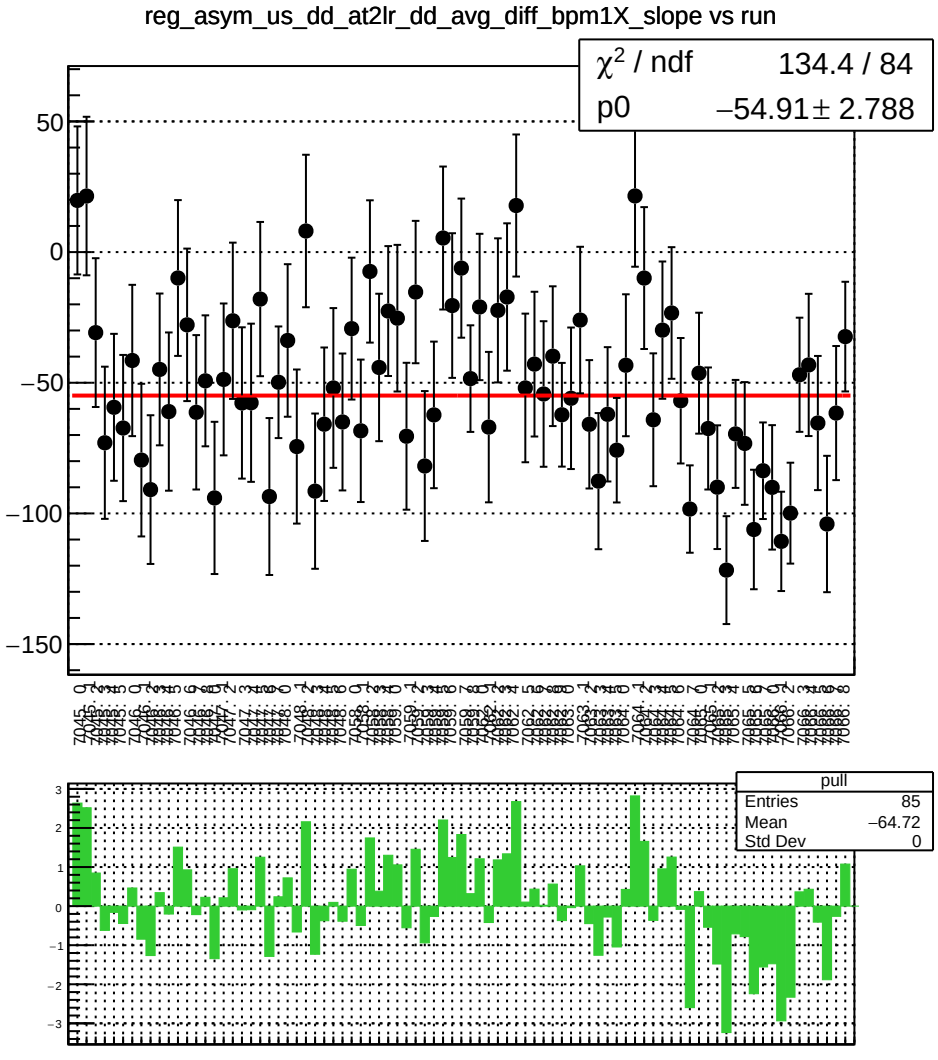

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.53 / 84
p0 6.038 ± 1.448
pull
Entries 85
Mean −196
Std Dev 0
pull1D
Entries 85
Mean −0.03938
Std Dev 0.836

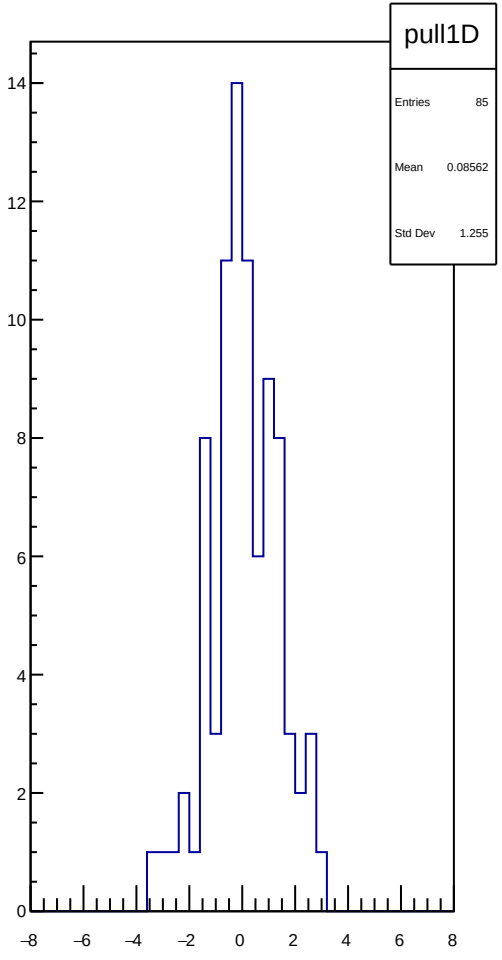

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.1 / 84
p0 −81.87 ± 2.051
pull
Entries 85
Mean −123.6
Std Dev 0

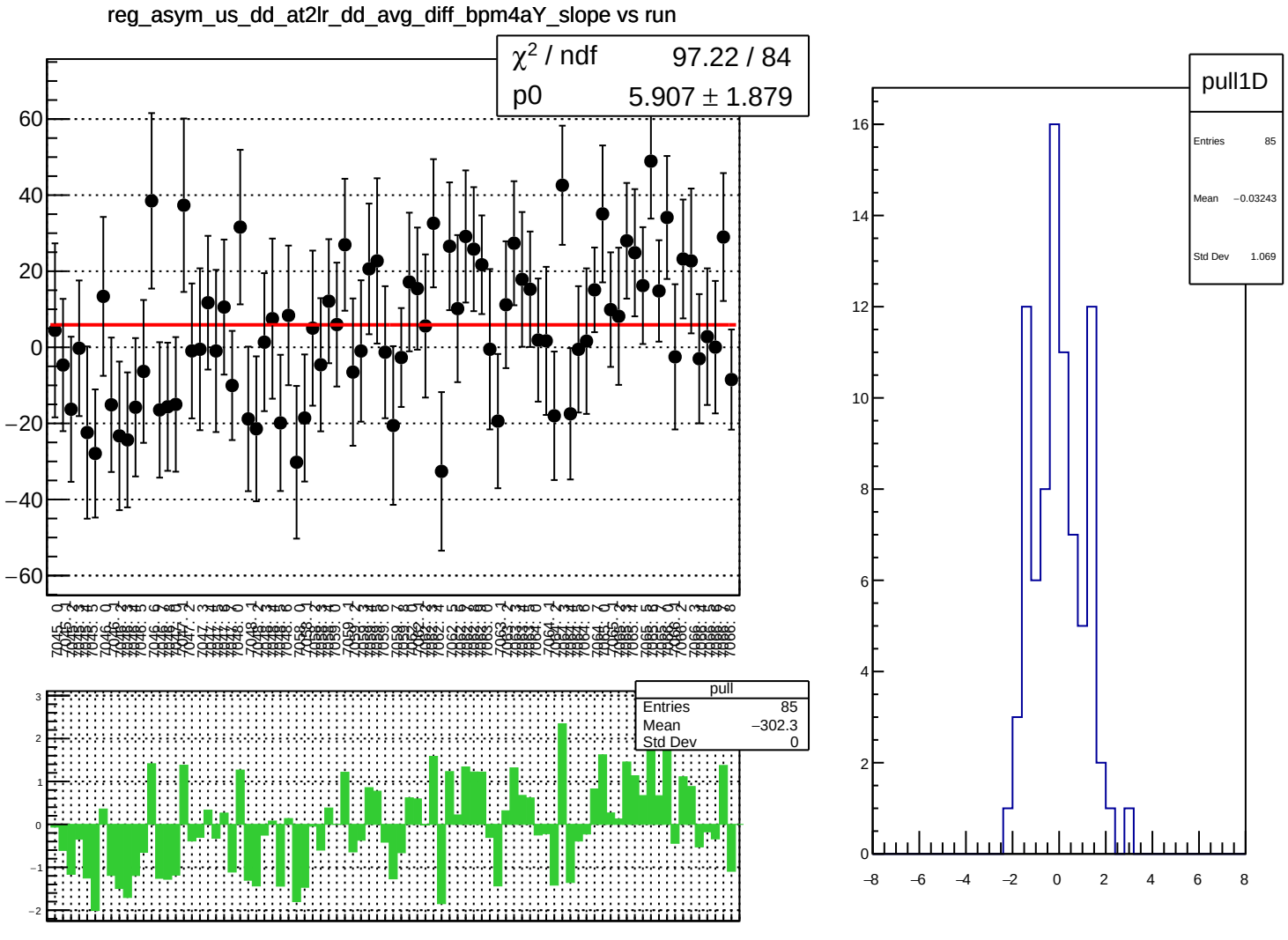

pull1D
Entries 85
Mean −0.09811
Std Dev 1.139

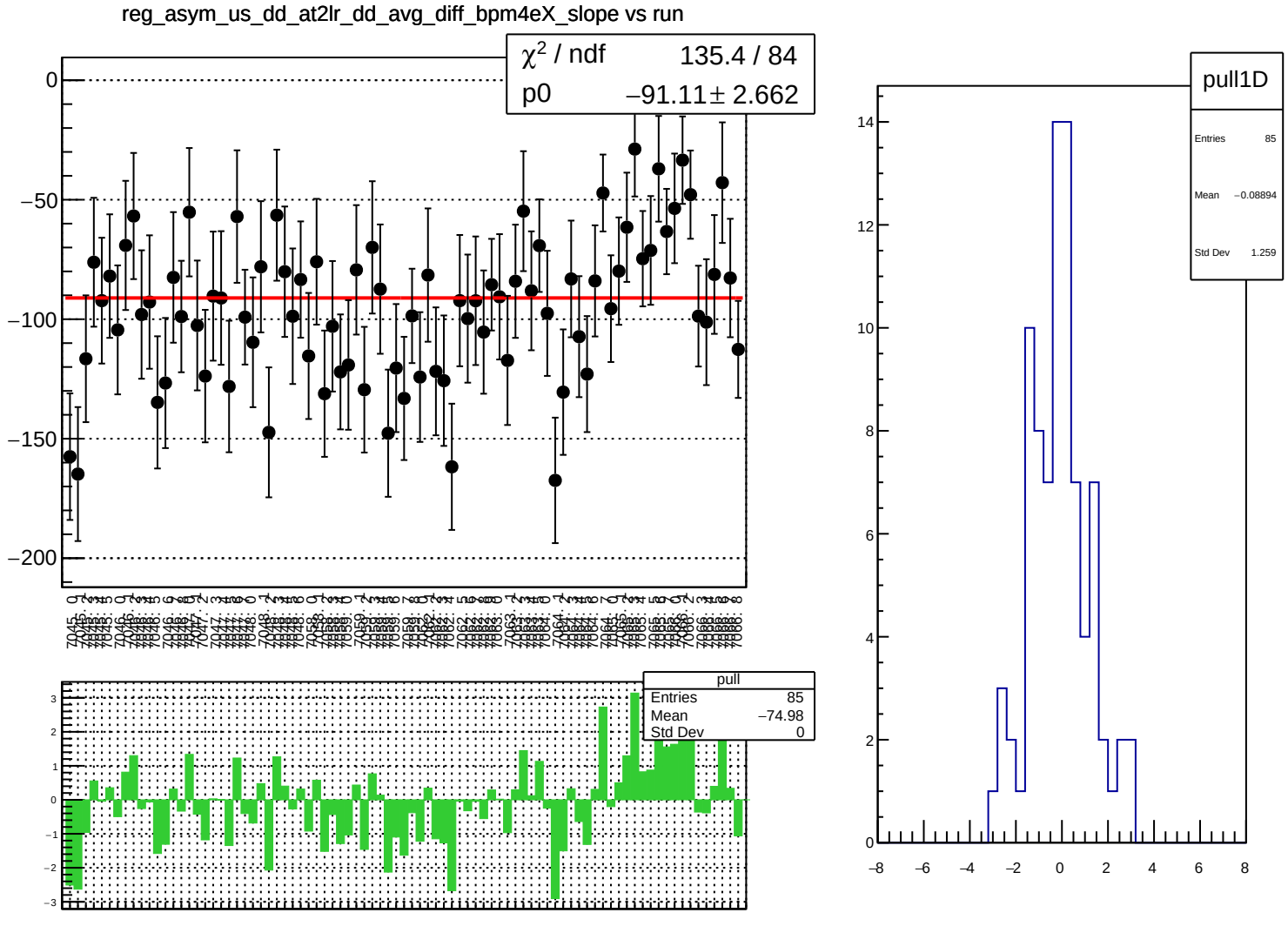

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.77 / 84
p0 −6.88 ± 1.541
pull
Entries 85
Mean −199.8
Std Dev 0
pull1D
Entries 85
Mean 0.03852
Std Dev 0.8855

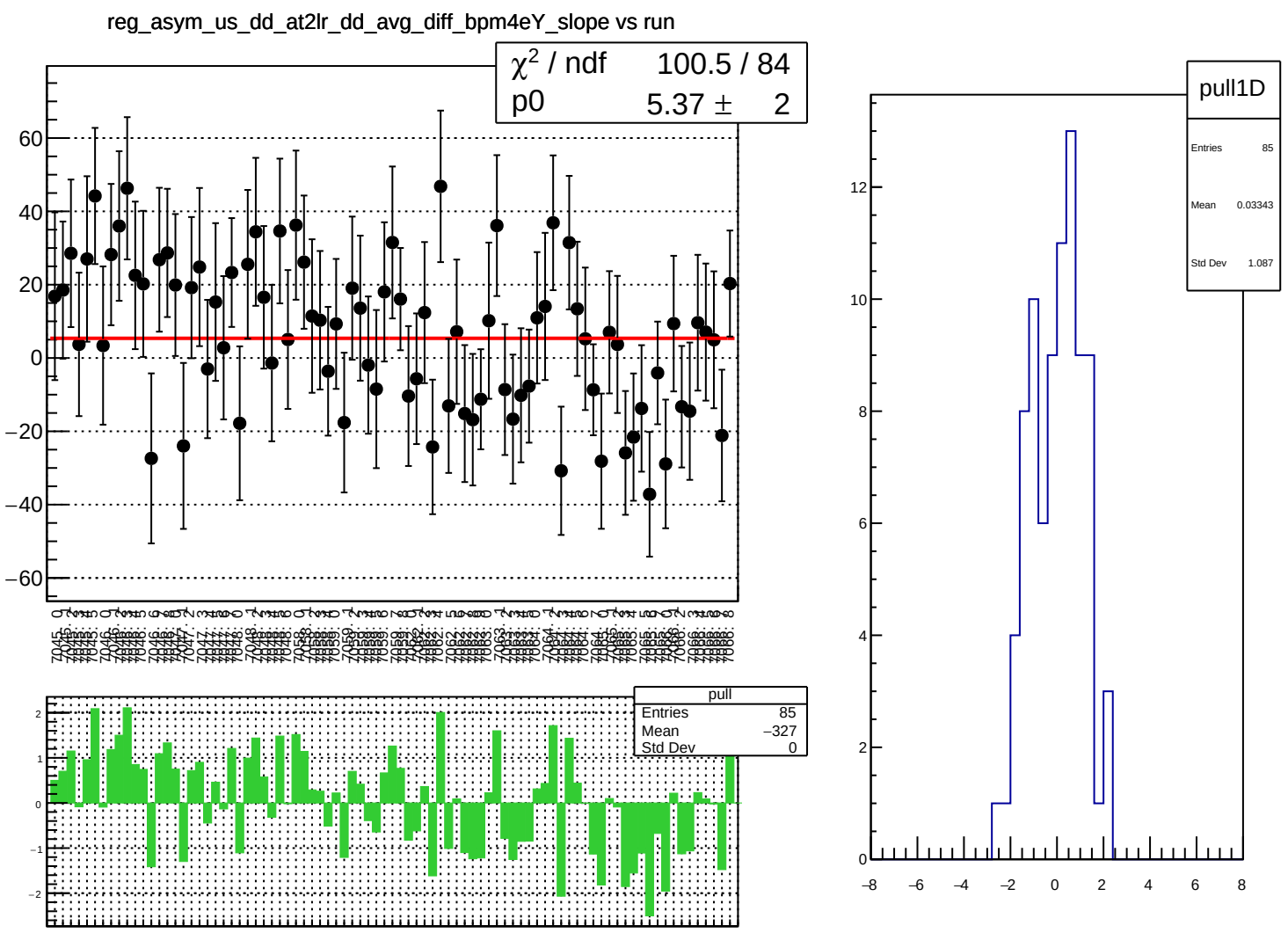

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 89.46 / 84
p0 1.147 ± 0.07183
pull
Entries 85
Mean −679.7
Std Dev 0
pull1D
Entries 85
Mean 0.01173
Std Dev 1.026

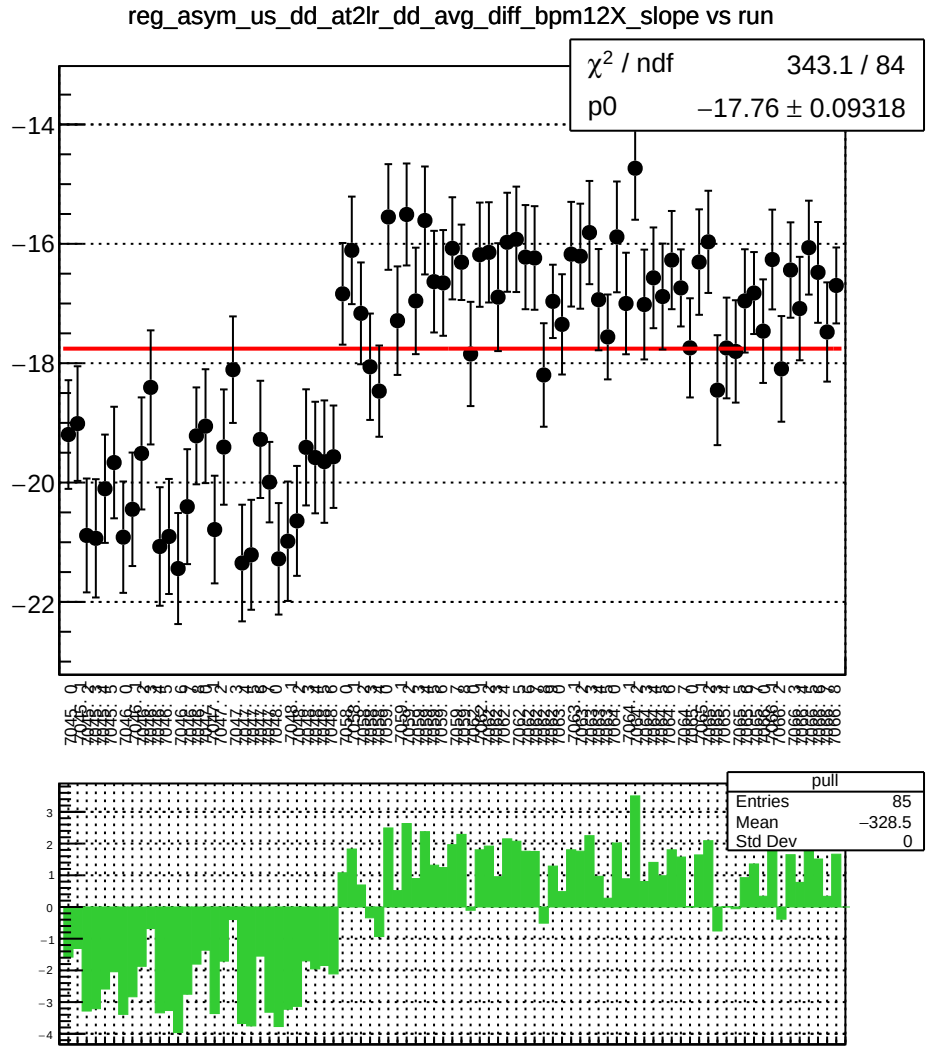

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 134.4 / 84
p0 −54.91 ± 2.788
pull
Entries 85
Mean −64.72
Std Dev 0

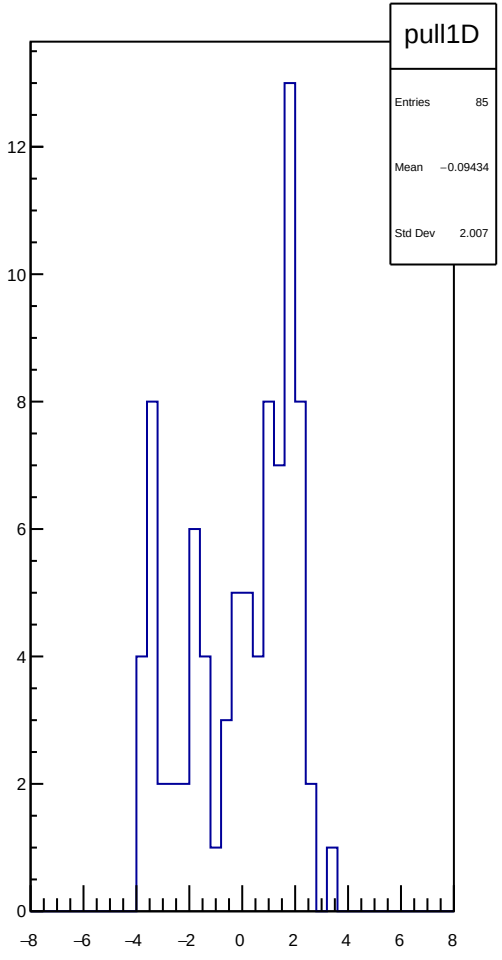

pull1D
Entries 85
Mean 0.08562
Std Dev 1.255

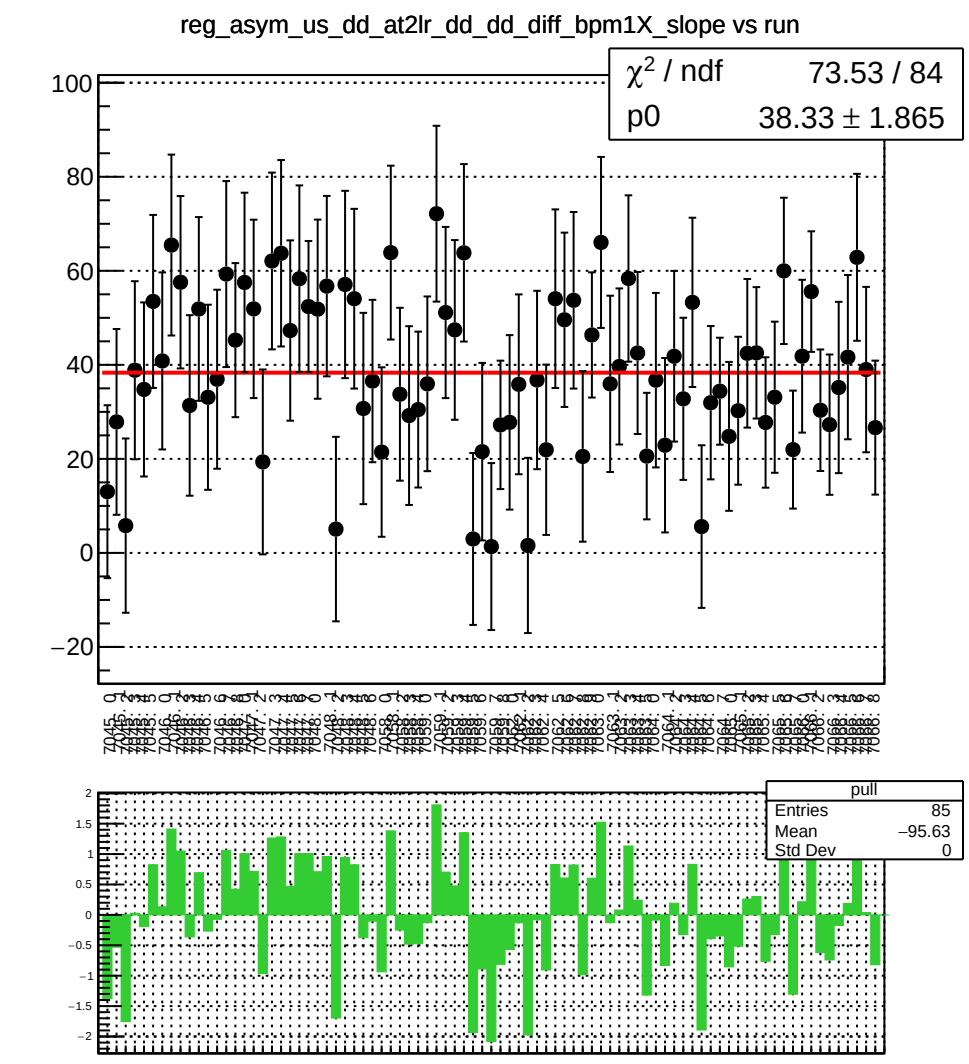

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.22 / 84
p0 5.907 ± 1.879
pull
Entries 85
Mean −302.3
Std Dev 0
pull1D
Entries 85
Mean −0.03243
Std Dev 1.069

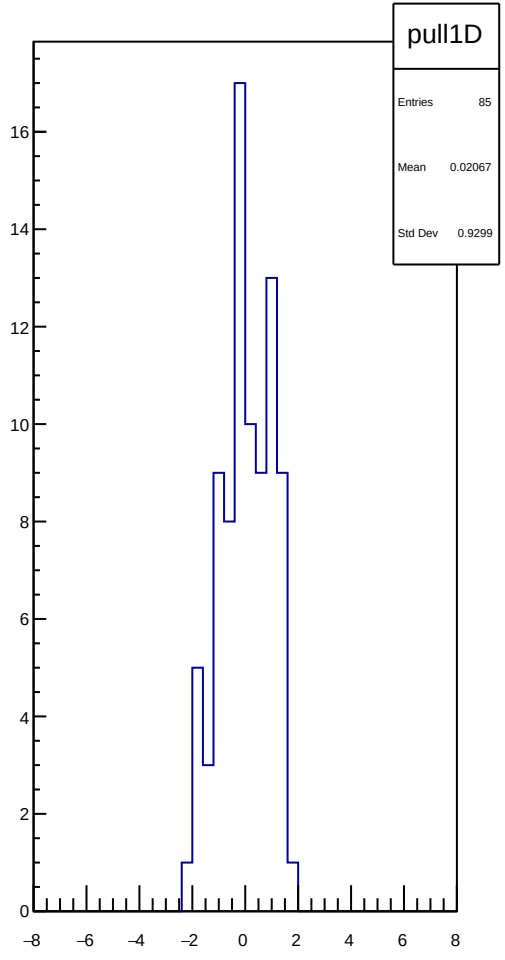

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 135.4 / 84
p0 −91.11 ± 2.662
pull
Entries 85
Mean −74.98
Std Dev 0
pull1D
Entries 85
Mean −0.08894
Std Dev 1.259

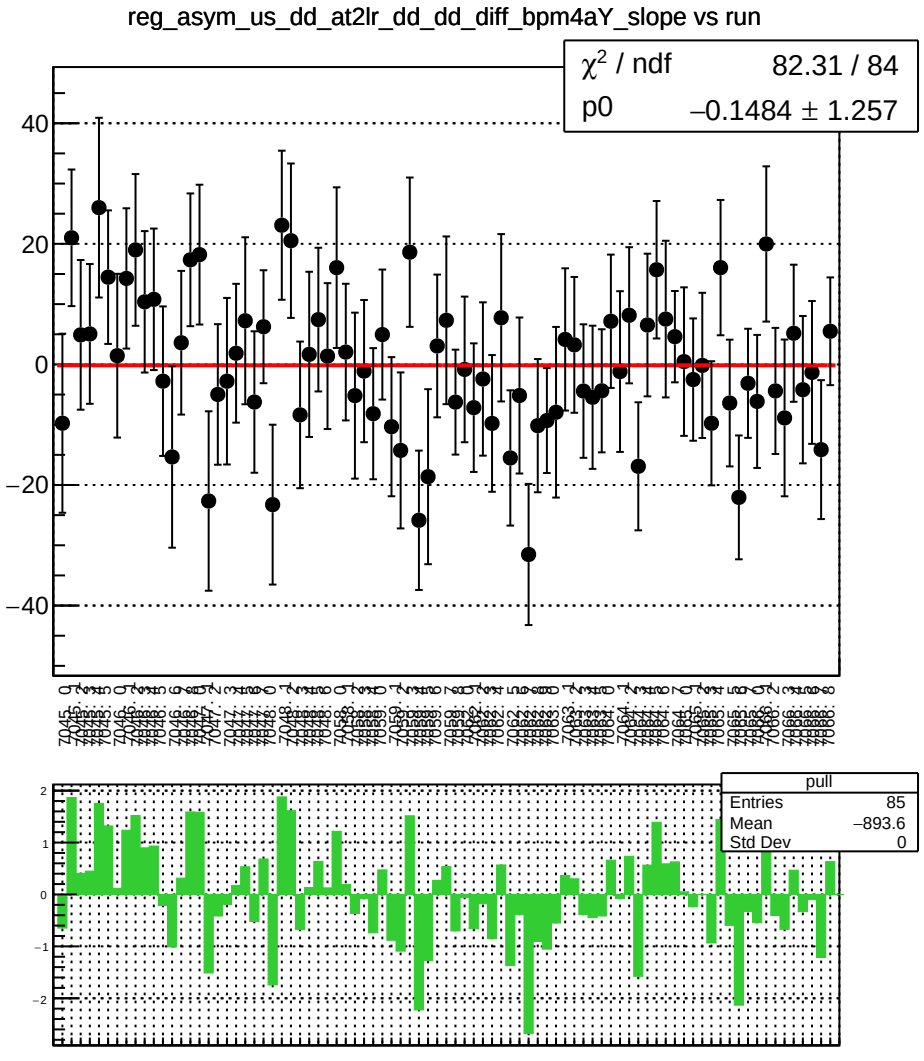

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.5 / 84
p0 5.37 ± 2
pull
Entries 85
Mean −327
Std Dev 0
pull1D
Entries 85
Mean 0.03343
Std Dev 1.087

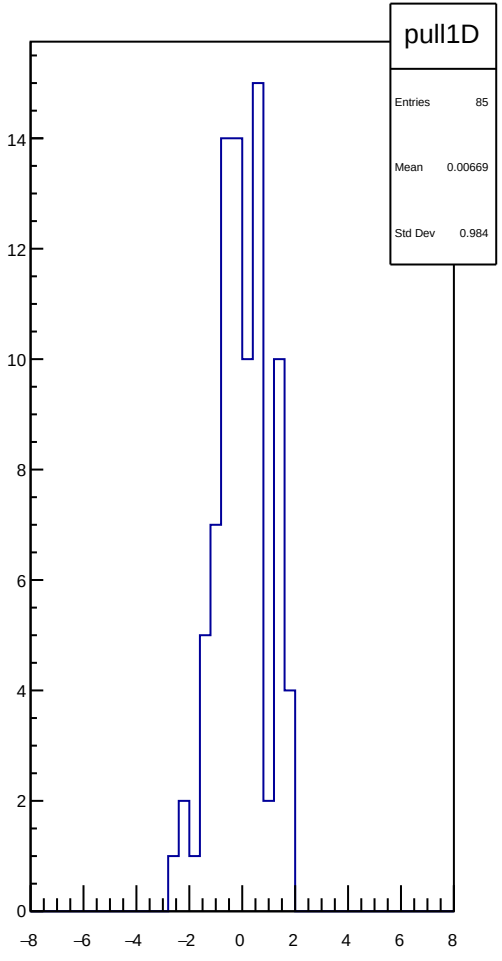

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 343.1 / 84
p0 −17.76 ± 0.09318
pull
Entries 85
Mean −328.5
Std Dev 0

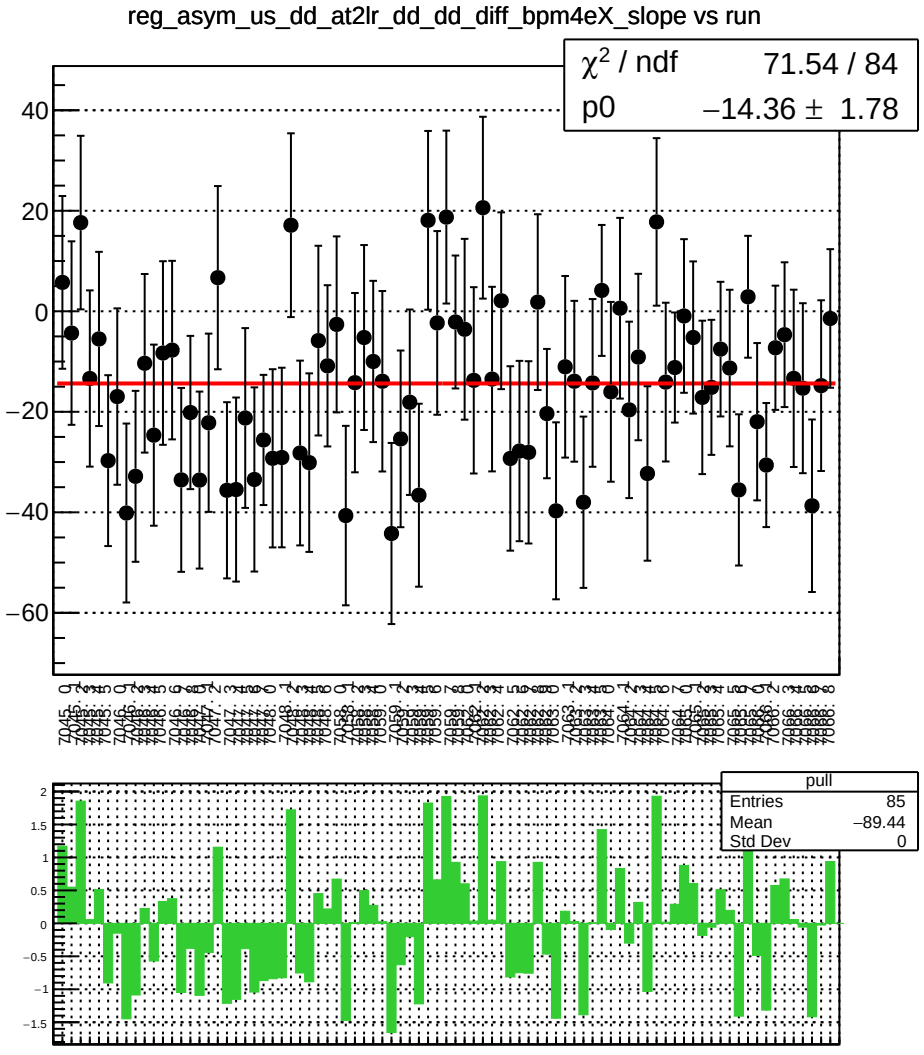

pull1D
Entries 85
Mean −0.09434
Std Dev 2.007

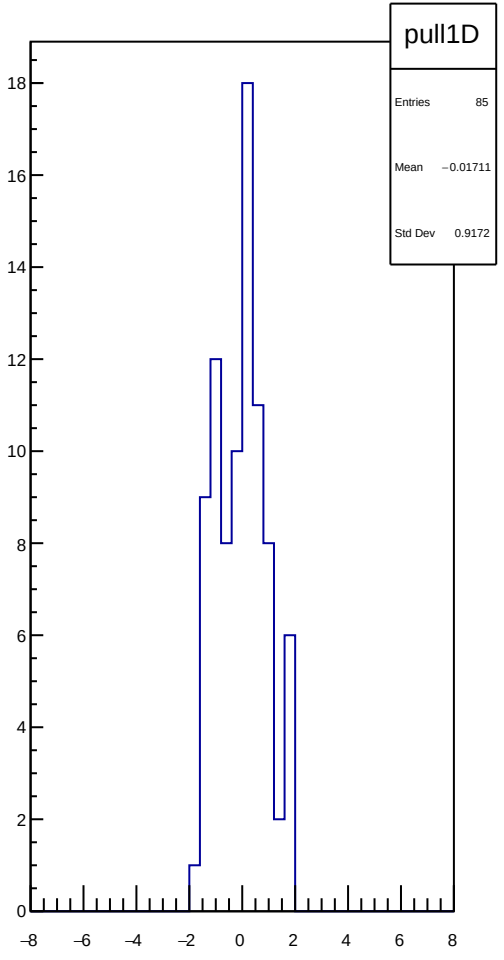

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.53 / 84
p0 38.33 ± 1.865
pull
Entries 85
Mean −95.63
Std Dev 0

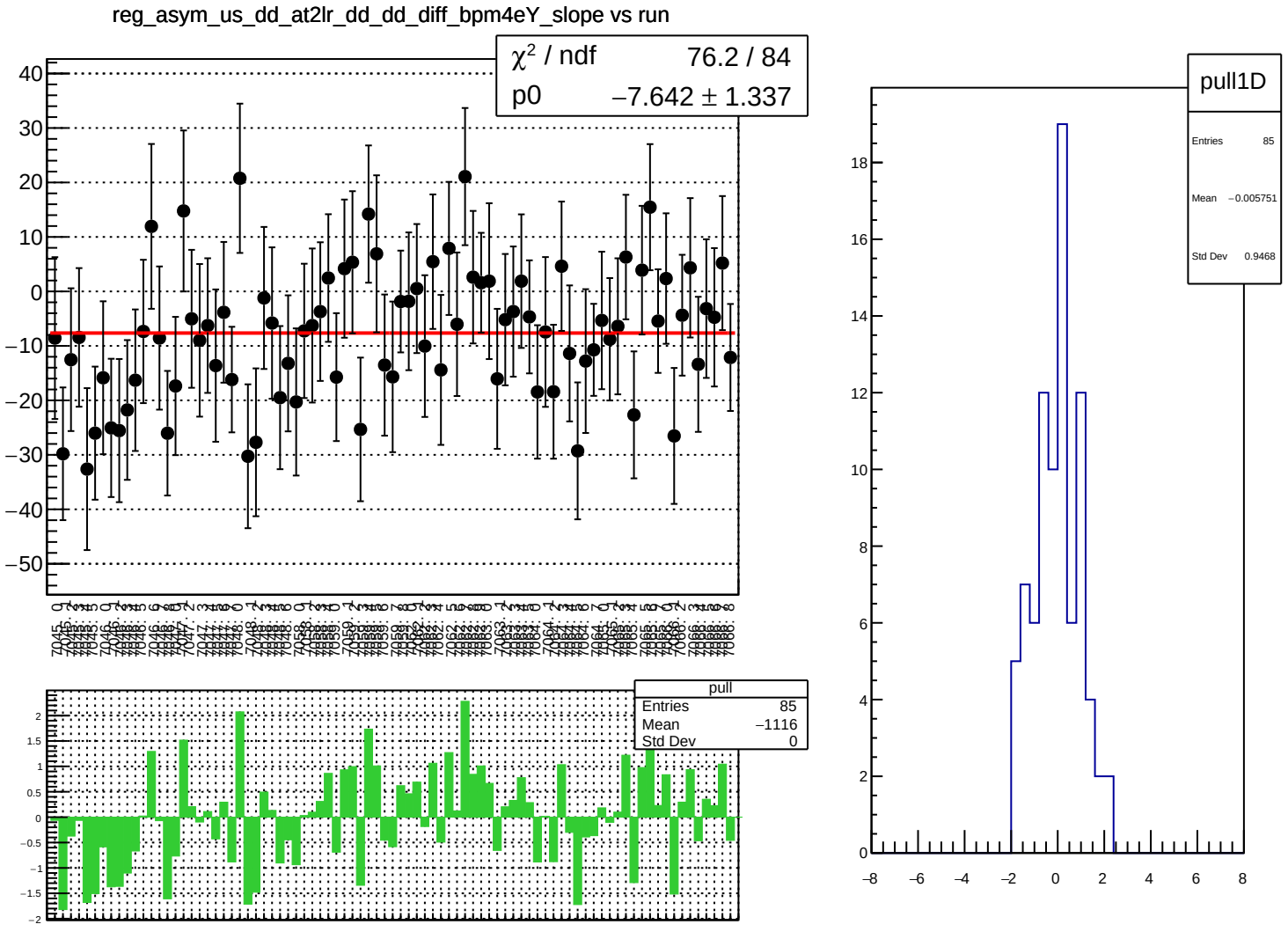

pull1D
Entries 85
Mean 0.02067
Std Dev 0.9299

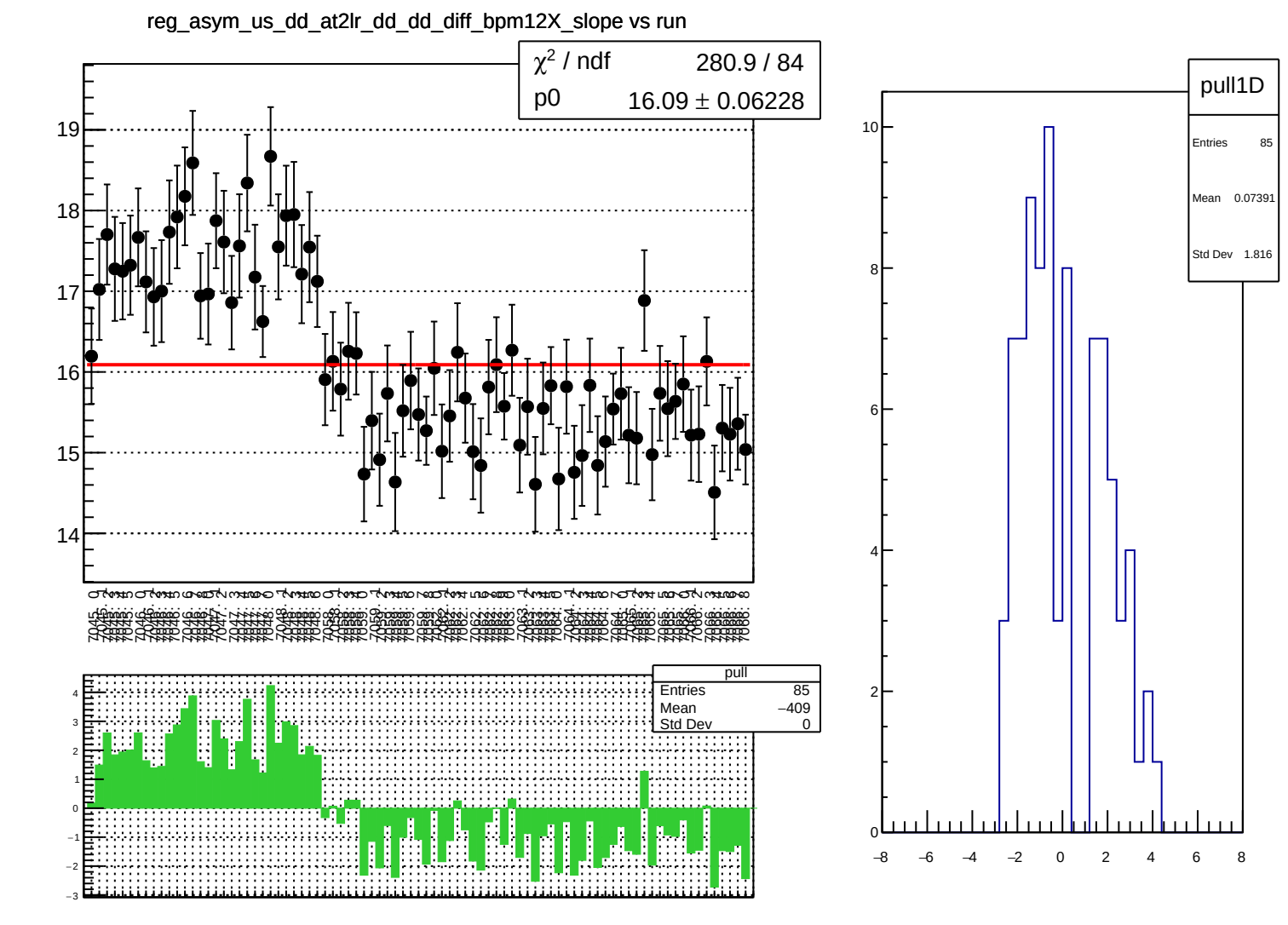

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.31 / 84
p0 −0.1484 ± 1.257
pull
Entries 85
Mean −893.6
Std Dev 0

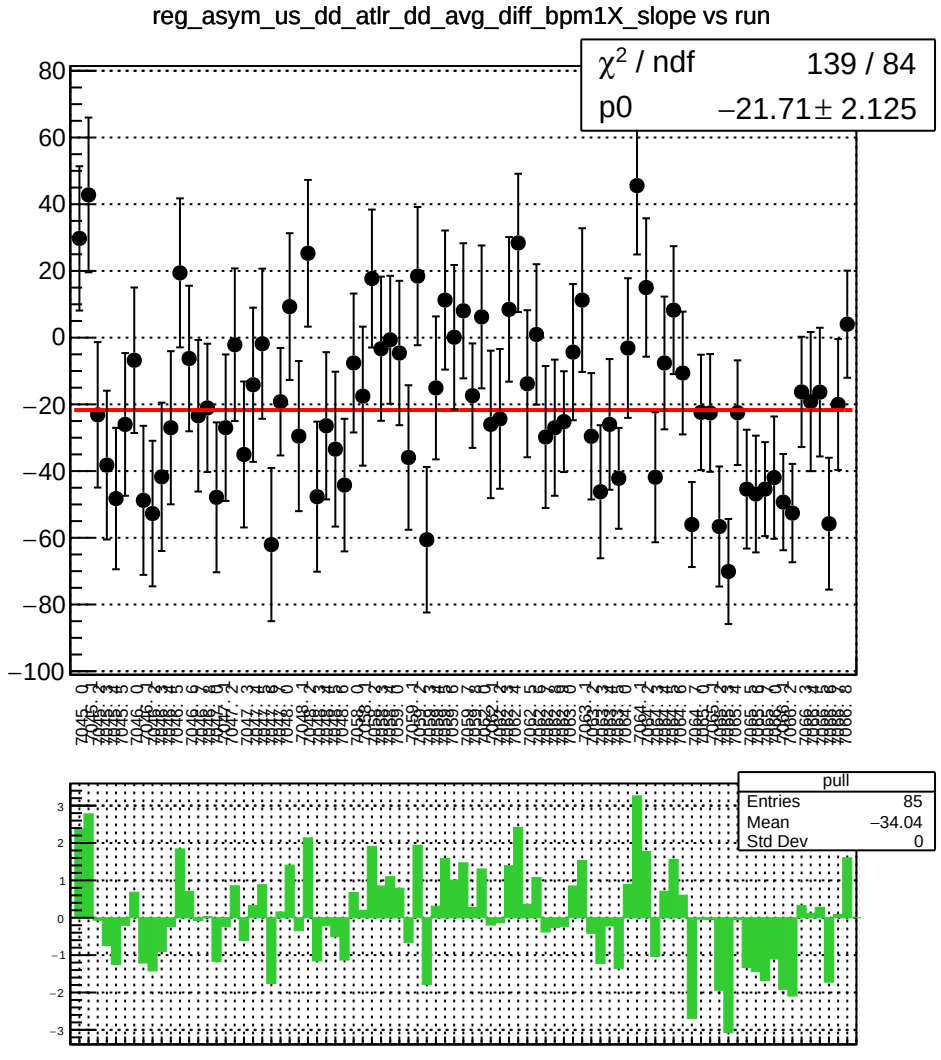

pull1D
Entries 85
Mean 0.00669
Std Dev 0.984

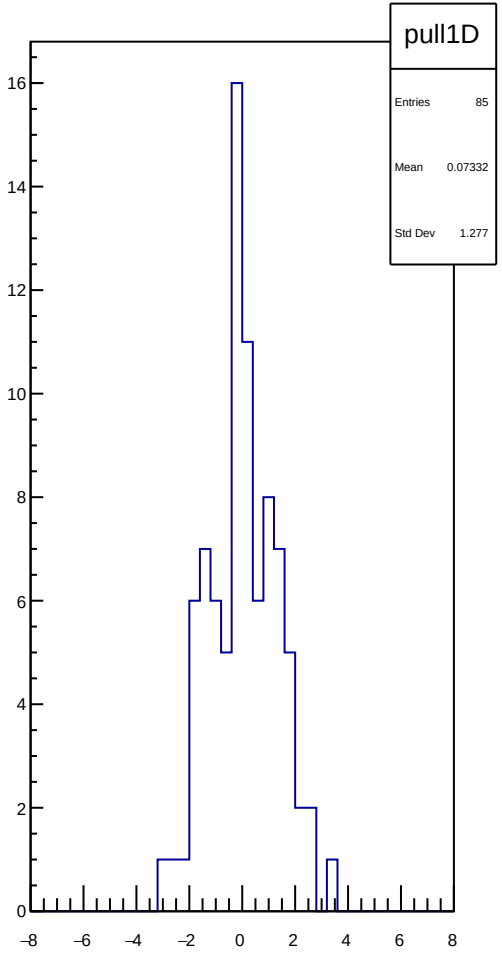

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.54 / 84
p0 −14.36 ± 1.78
pull
Entries 85
Mean −89.44
Std Dev 0

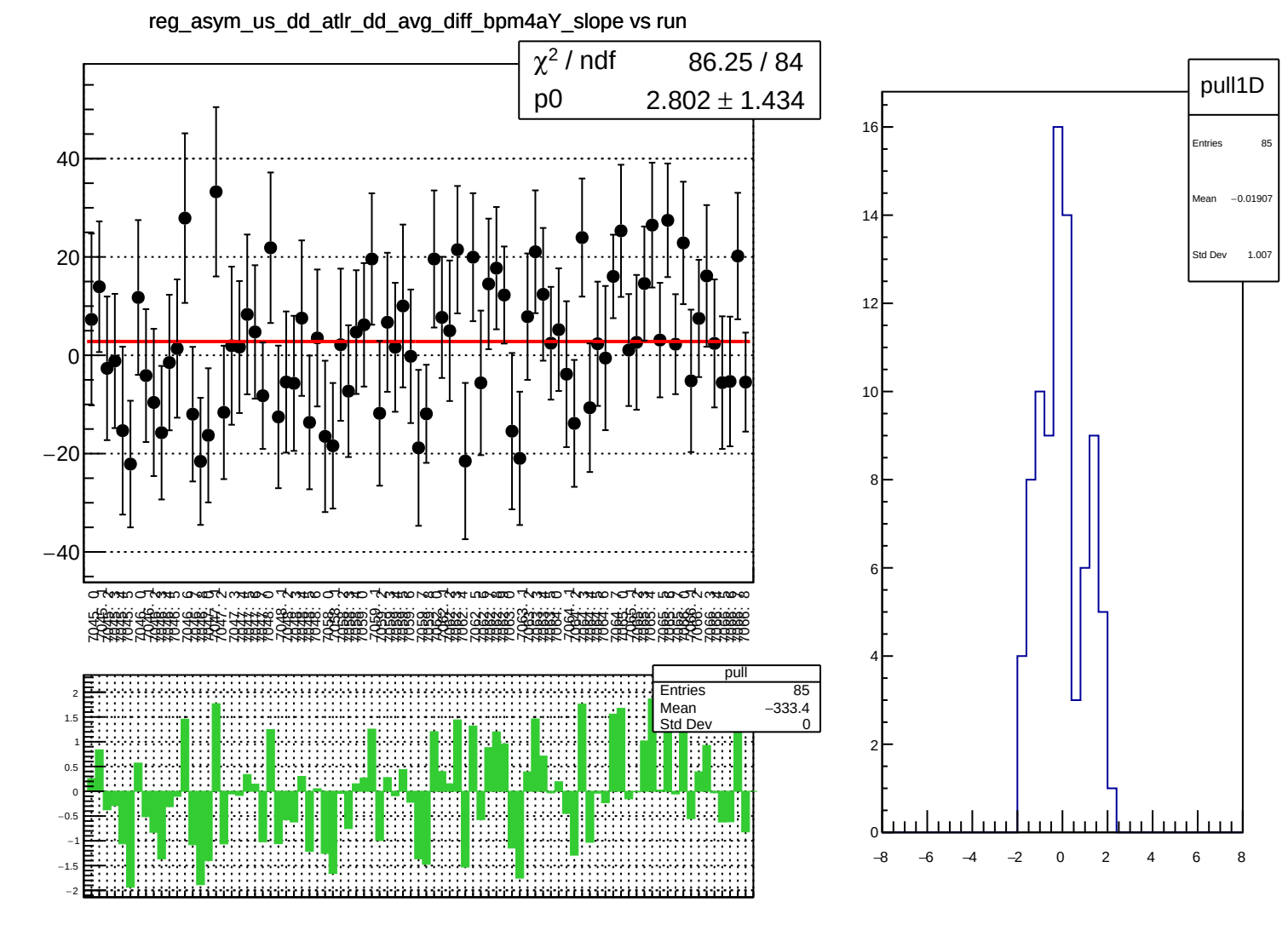

pull1D
Entries 85
Mean −0.01711
Std Dev 0.9172

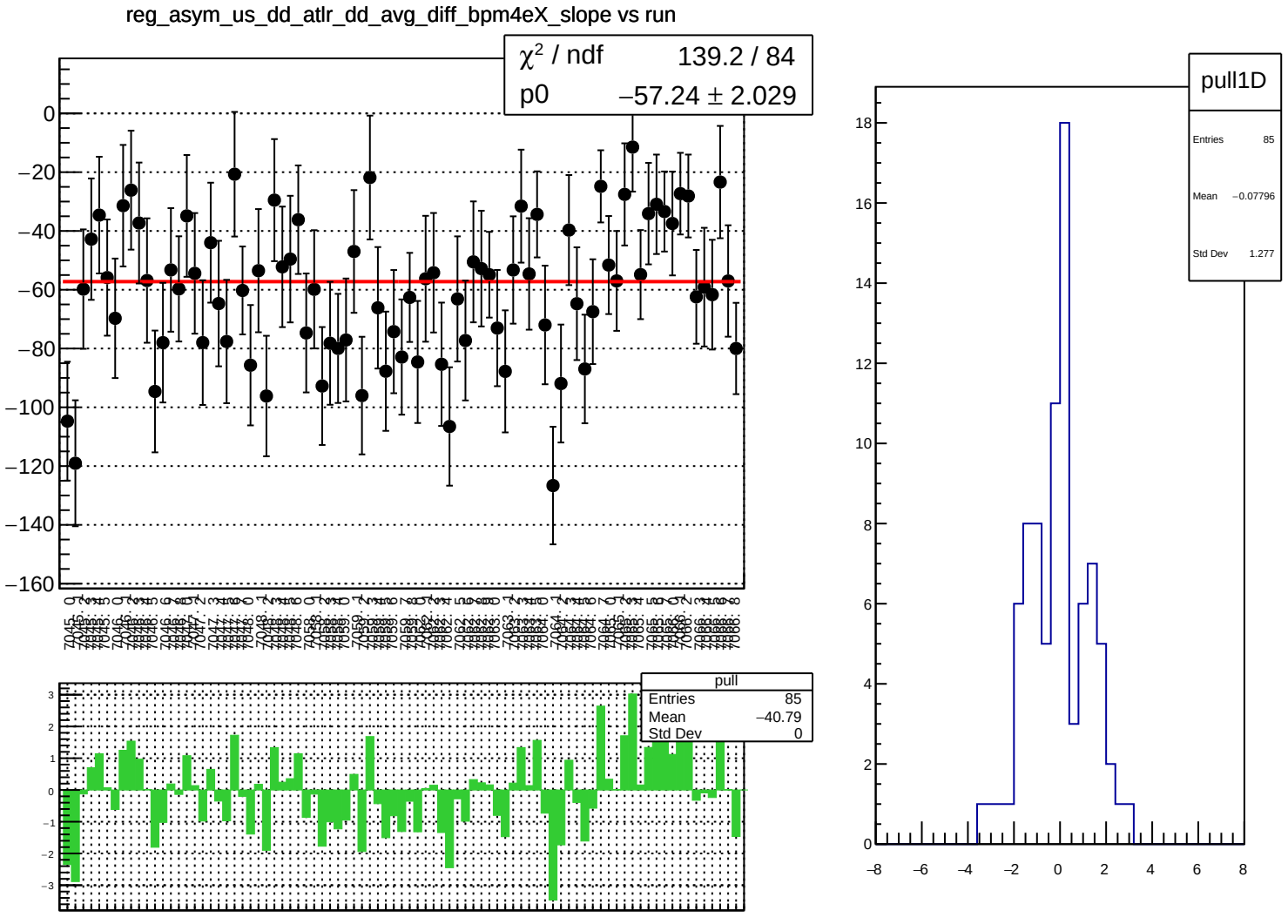

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.2 / 84
p0 −7.642 ± 1.337
pull
Entries 85
Mean −1116
Std Dev 0
pull1D
Entries 85
Mean −0.005751
Std Dev 0.9468

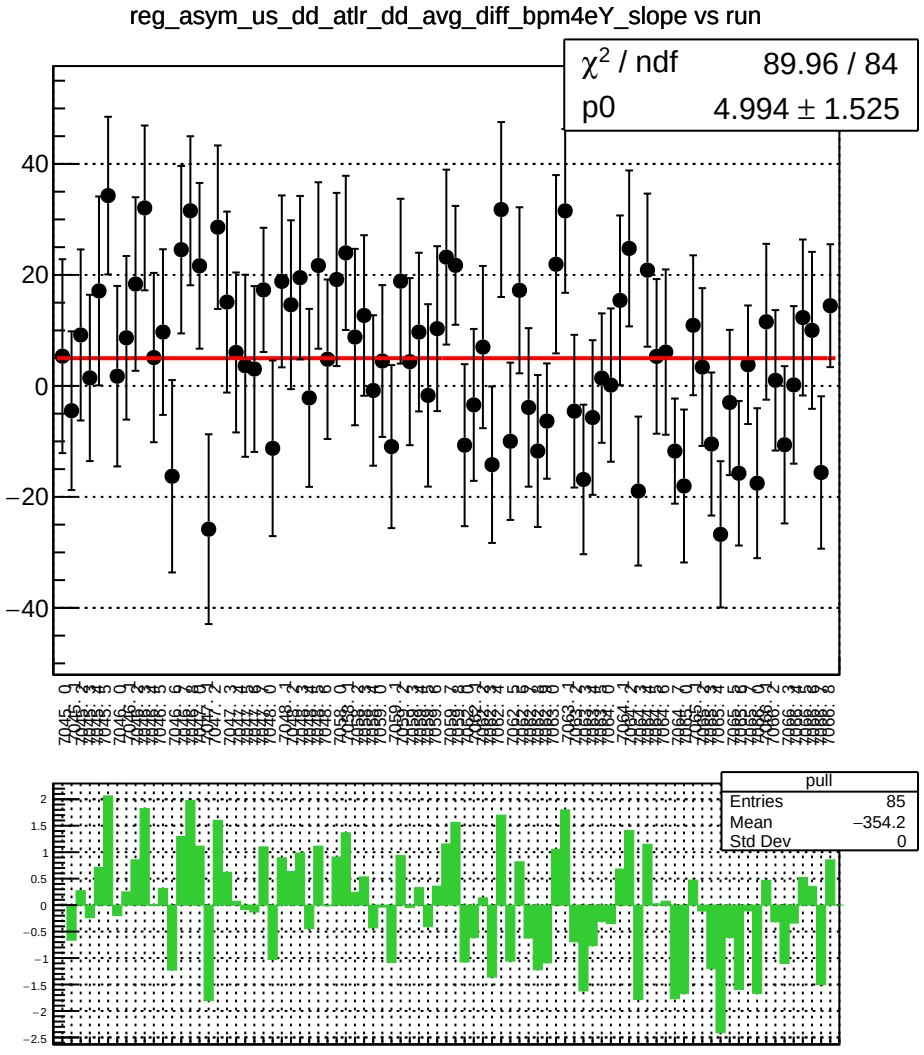

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 280.9 / 84
p0 16.09 ± 0.06228
pull
Entries 85
Mean −409
Std Dev 0
pull1D
Entries 85
Mean 0.07391
Std Dev 1.816

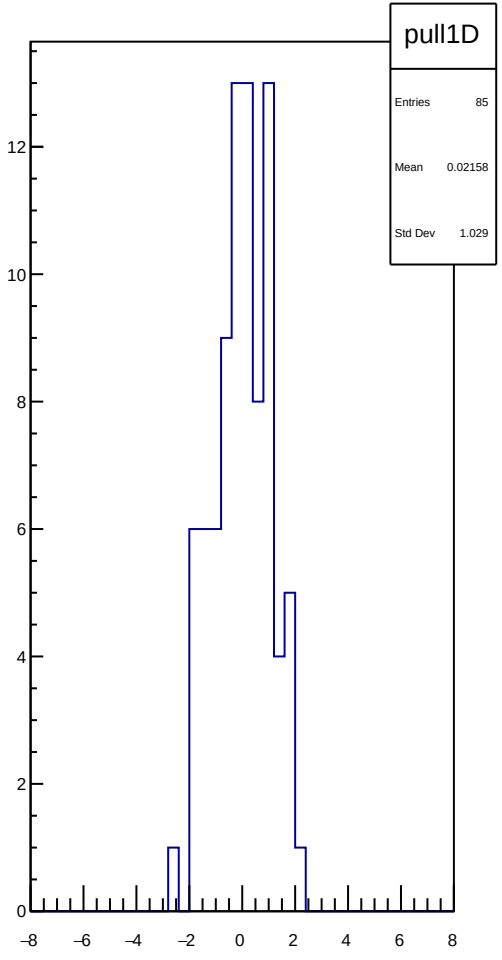

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 139 / 84
p0 −21.71± 2.125
pull
Entries 85
Mean −34.04
Std Dev 0

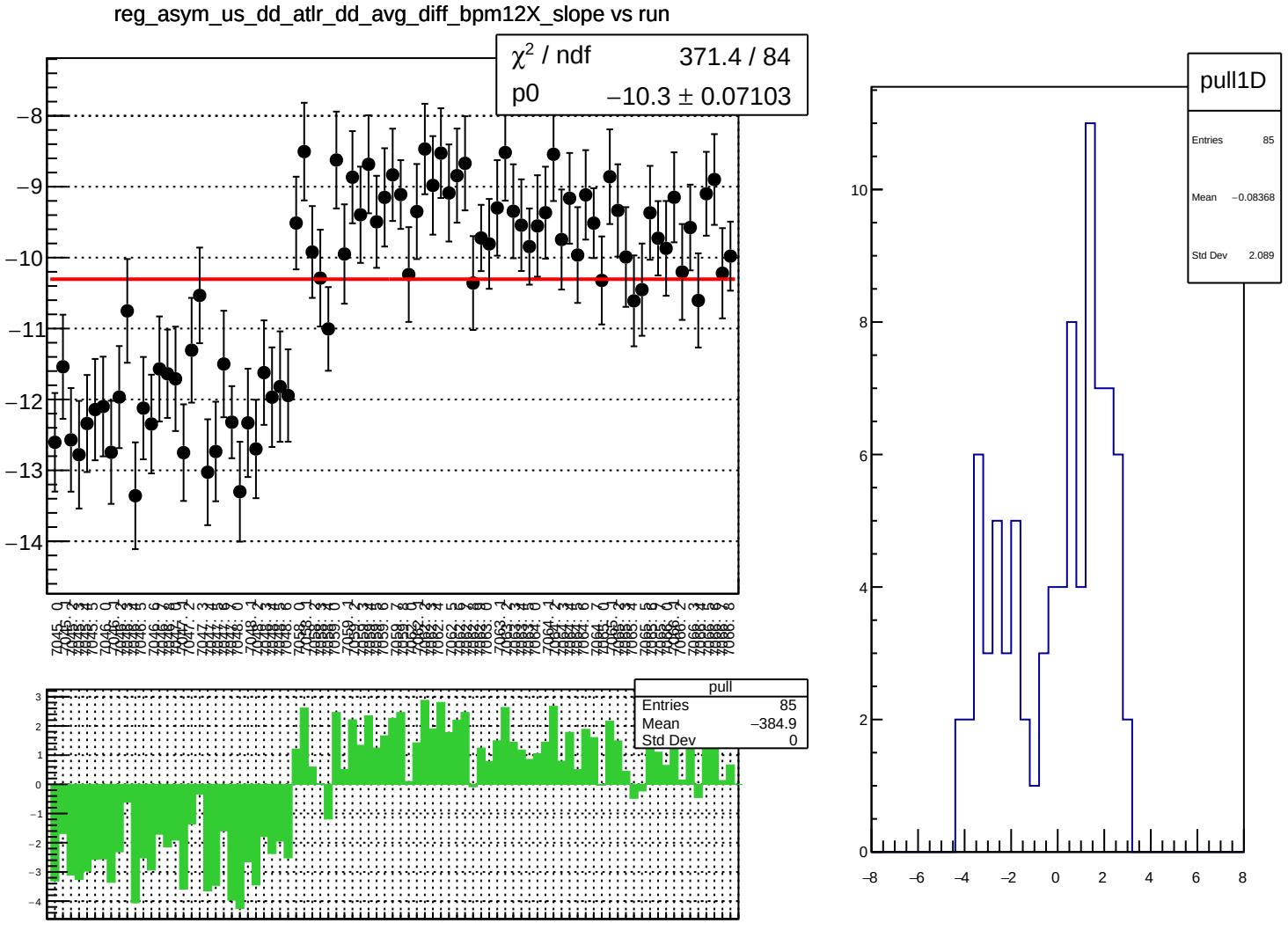

pull1D
Entries 85
Mean 0.07332
Std Dev 1.277

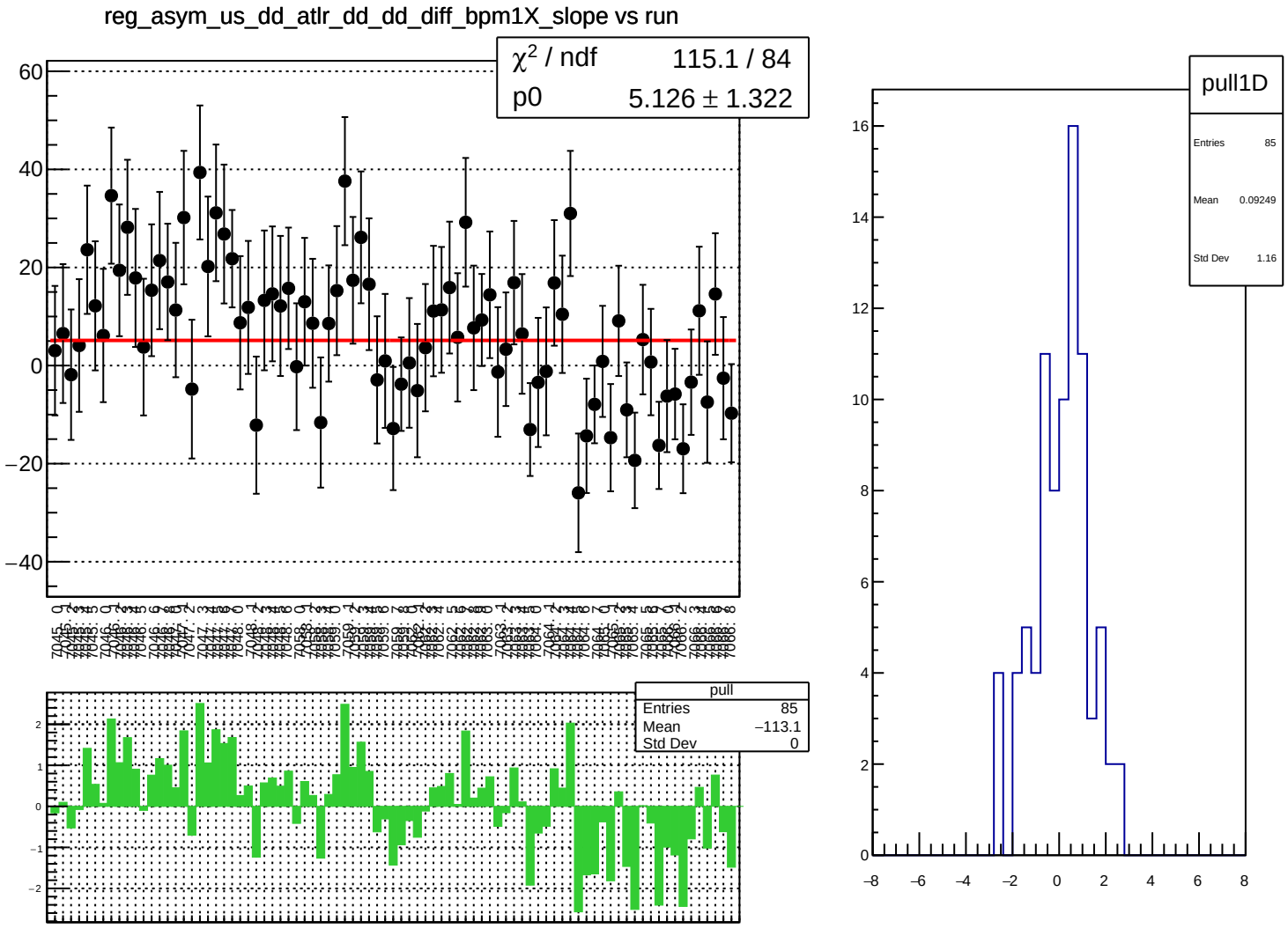

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.25 / 84
p0 2.802 ± 1.434
pull
Entries 85
Mean −333.4
Std Dev 0
pull1D
Entries 85
Mean −0.01907
Std Dev 1.007

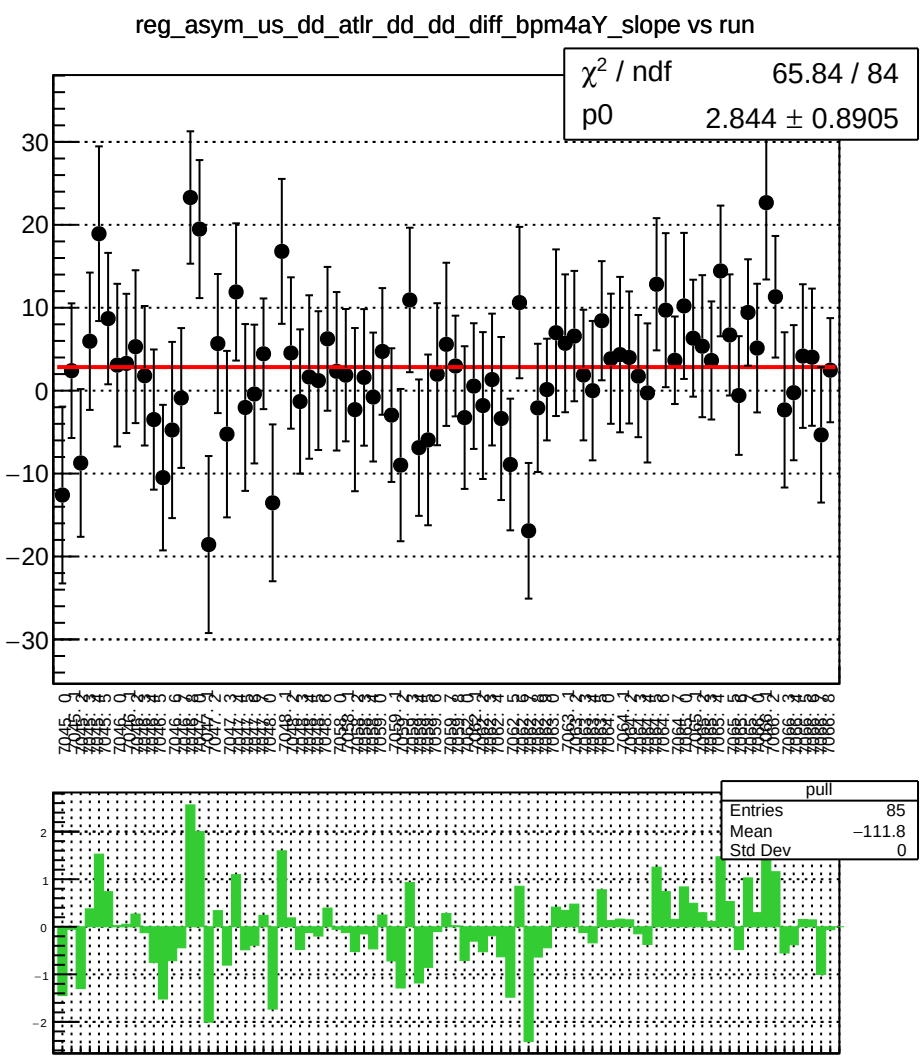

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 139.2 / 84
p0 −57.24 ± 2.029
pull
Entries 85
Mean −40.79
Std Dev 0
pull1D
Entries 85
Mean −0.07796
Std Dev 1.277

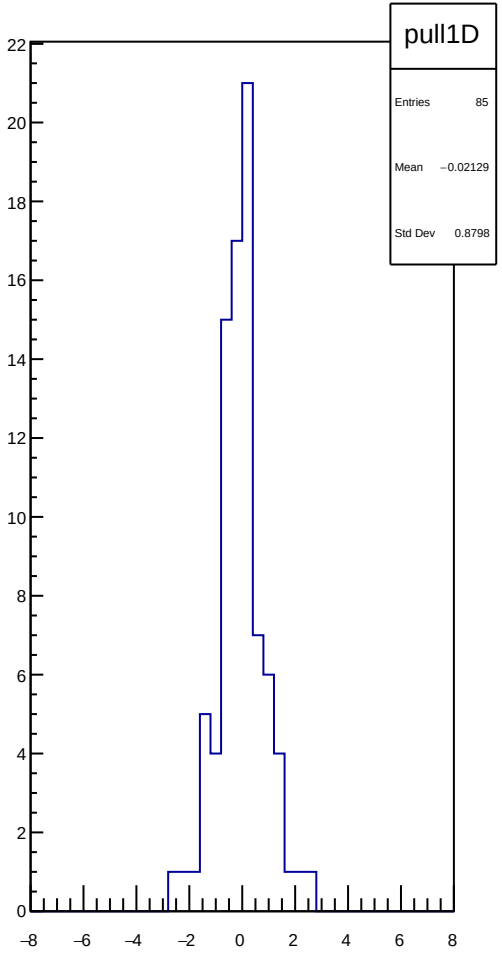

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.96 / 84
p0 4.994 ± 1.525
pull
Entries 85
Mean −354.2
Std Dev 0

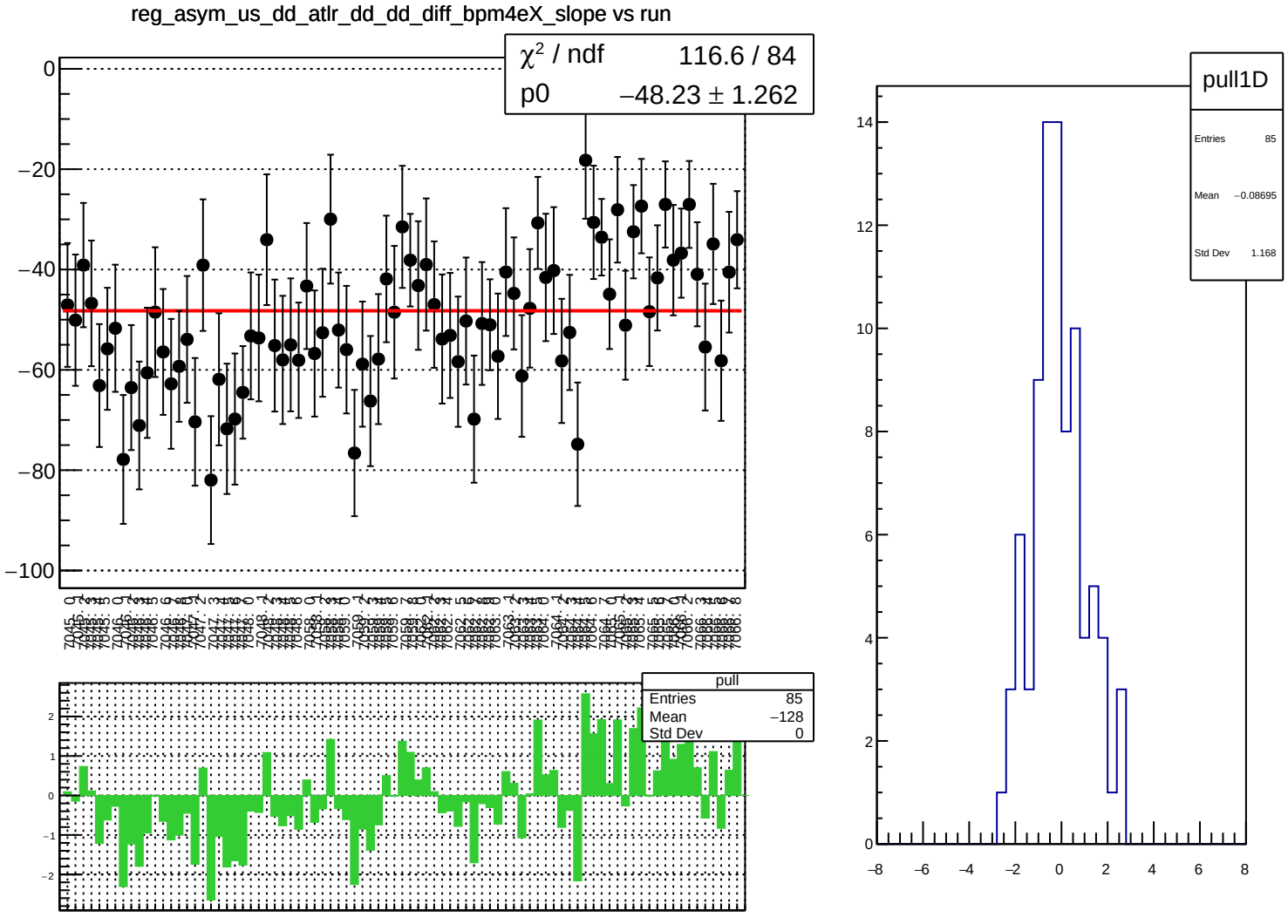

pull1D
Entries 85
Mean 0.02158
Std Dev 1.029

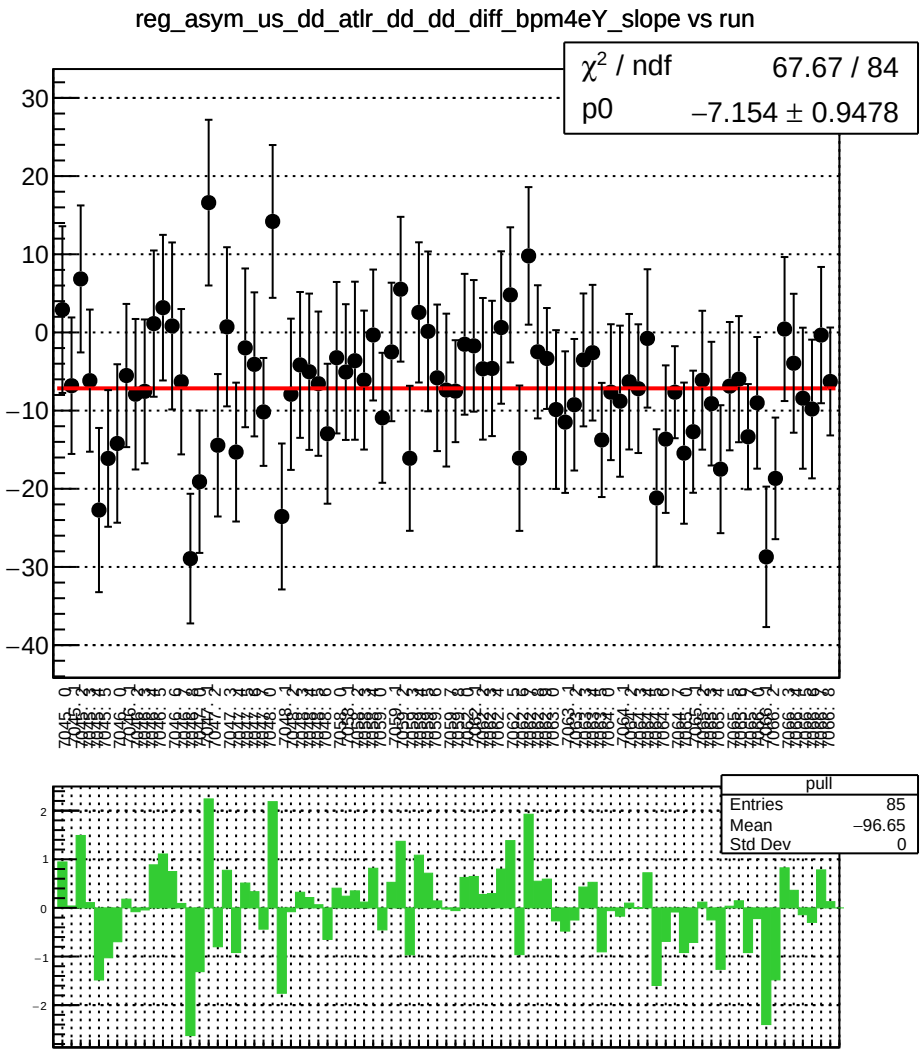

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 371.4 / 84
p0 −10.3 ± 0.07103
pull
Entries 85
Mean −384.9
Std Dev 0
pull1D
Entries 85
Mean −0.08368
Std Dev 2.089

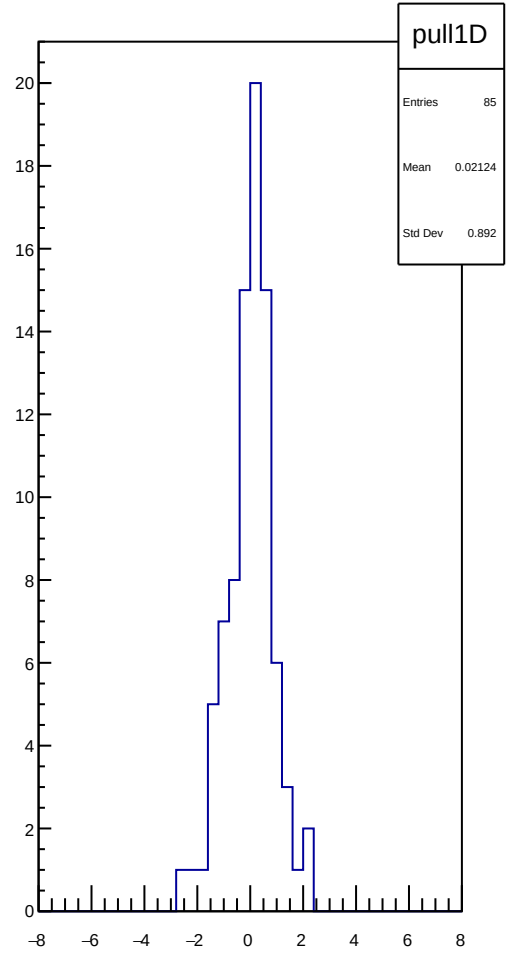

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 115.1 / 84
p0 5.126 ± 1.322
pull
Entries 85
Mean −113.1
Std Dev 0
pull1D
Entries 85
Mean 0.09249
Std Dev 1.16

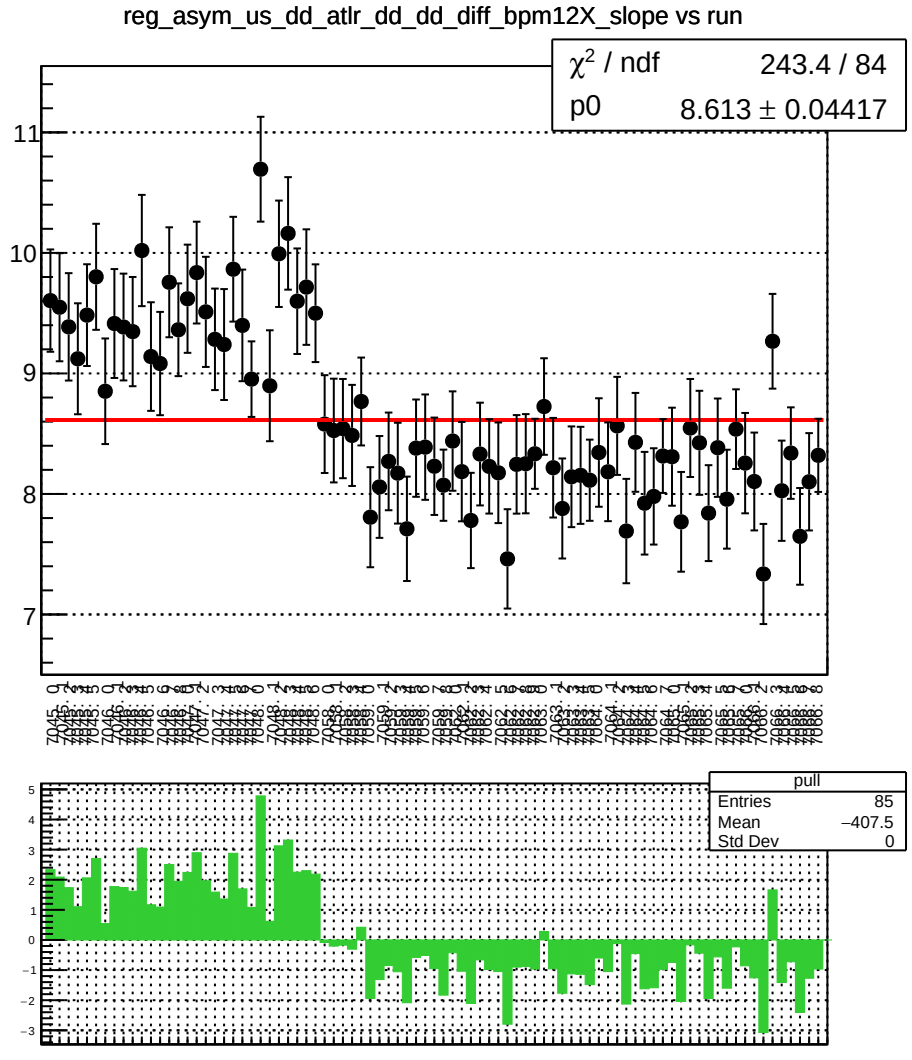

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.84 / 84
p0 2.844 ± 0.8905
pull
Entries 85
Mean −111.8
Std Dev 0

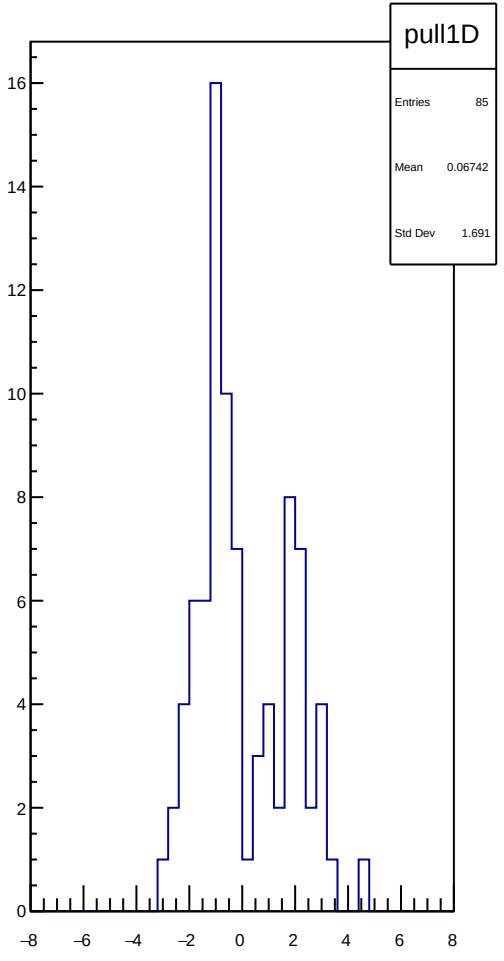

pull1D
Entries 85
Mean −0.02129
Std Dev 0.8798

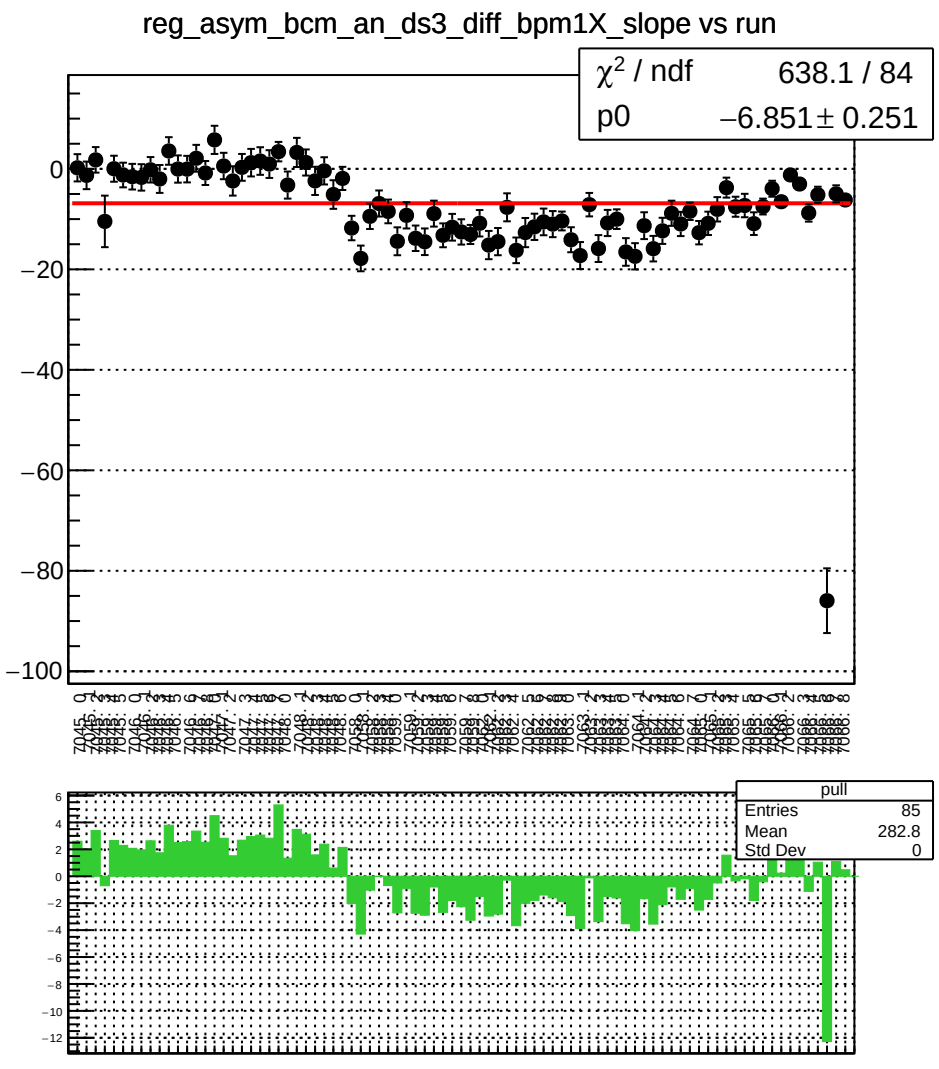

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 116.6 / 84
p0 −48.23 ± 1.262
pull
Entries 85
Mean −128
Std Dev 0
pull1D
Entries 85
Mean −0.08695
Std Dev 1.168

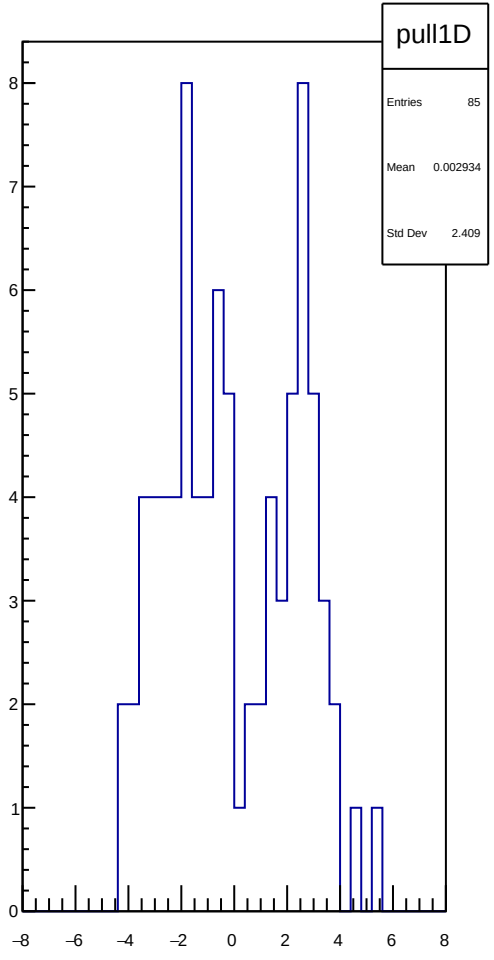

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.67 / 84
p0 −7.154 ± 0.9478
pull
Entries 85
Mean −96.65
Std Dev 0

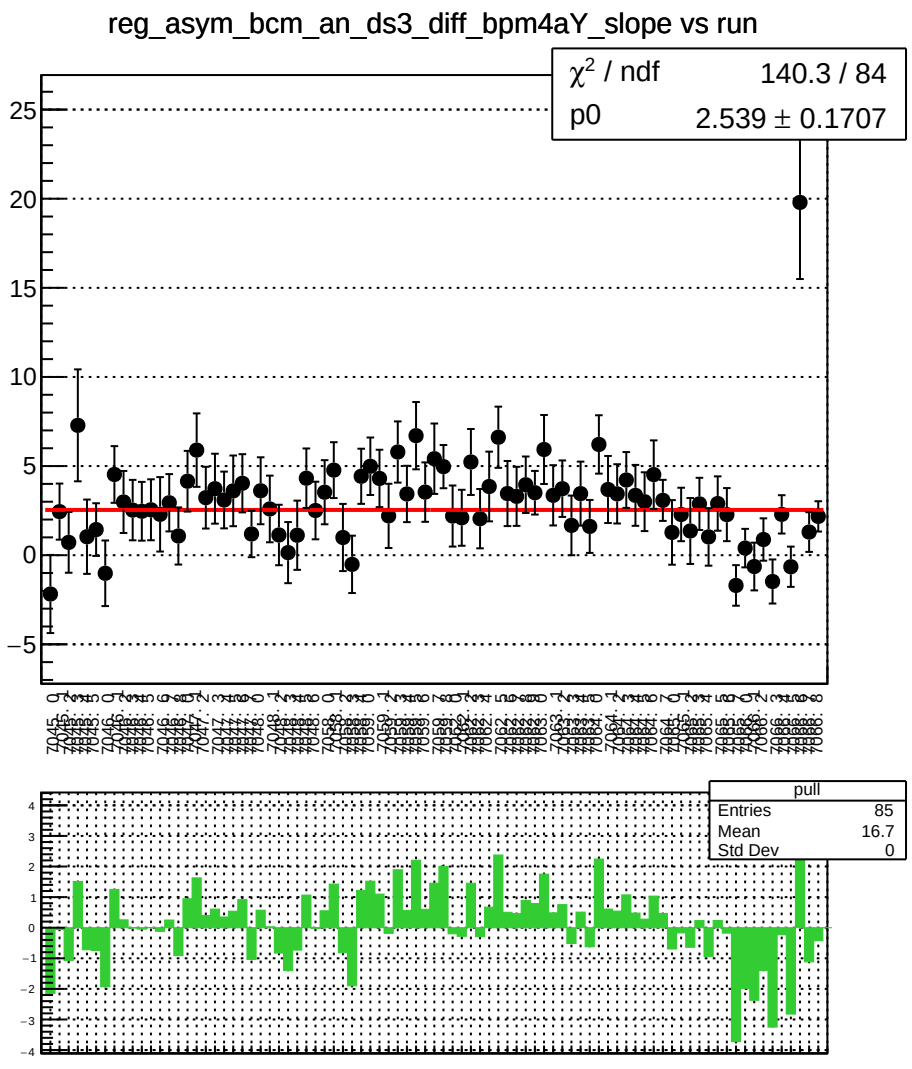

pull1D
Entries 85
Mean 0.02124
Std Dev 0.892

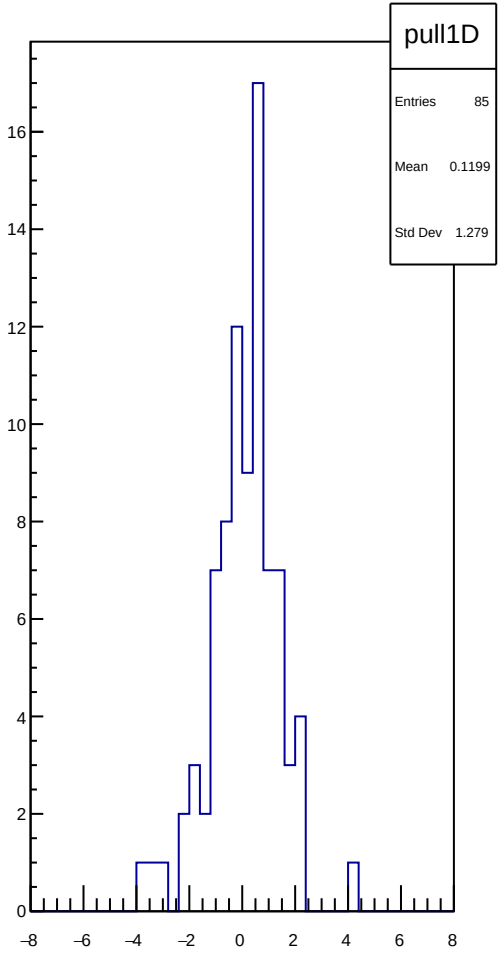

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 243.4 / 84
p0 8.613 ± 0.04417
pull
Entries 85
Mean −407.5
Std Dev 0

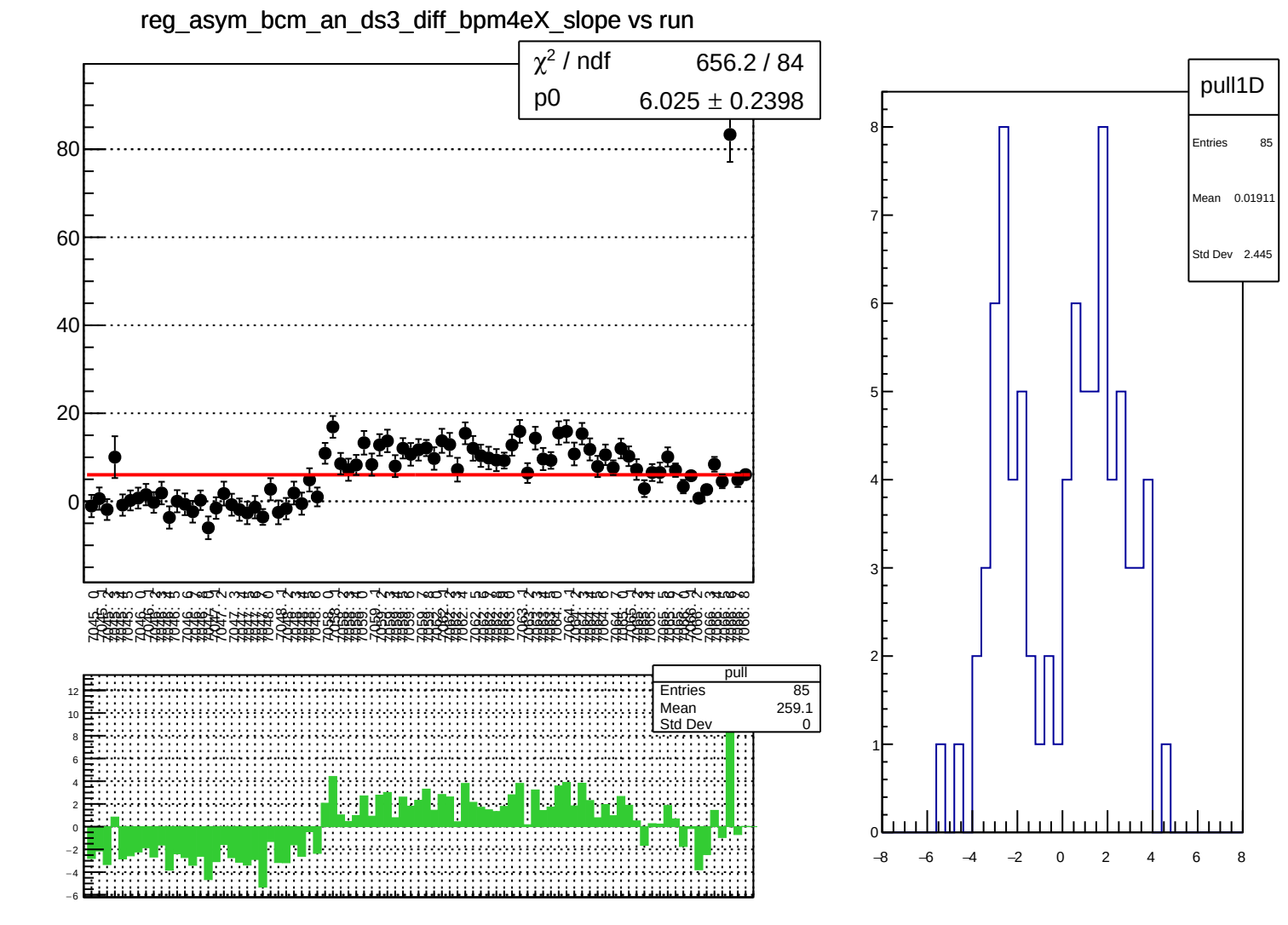

pull1D
Entries 85
Mean 0.06742
Std Dev 1.691

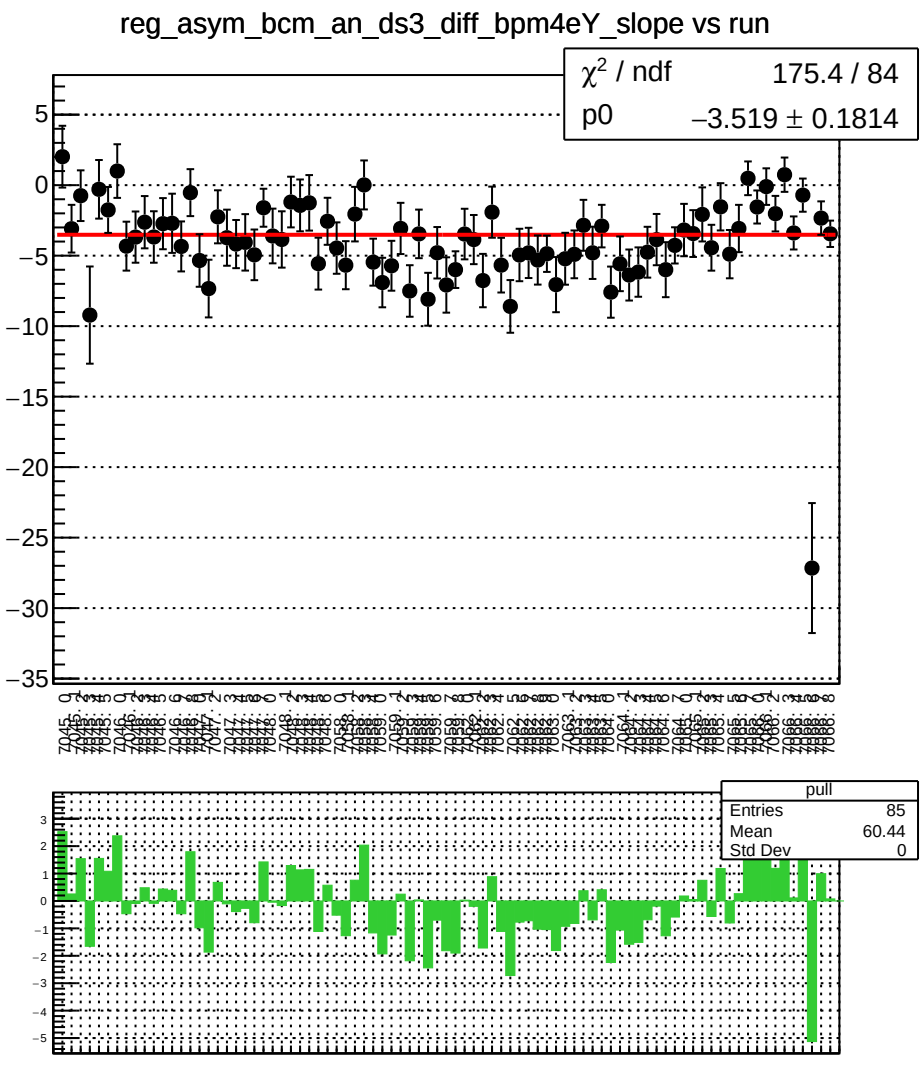

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 638.1 / 84
p0 −6.851 ± 0.251
pull
Entries 85
Mean 282.8
Std Dev 0

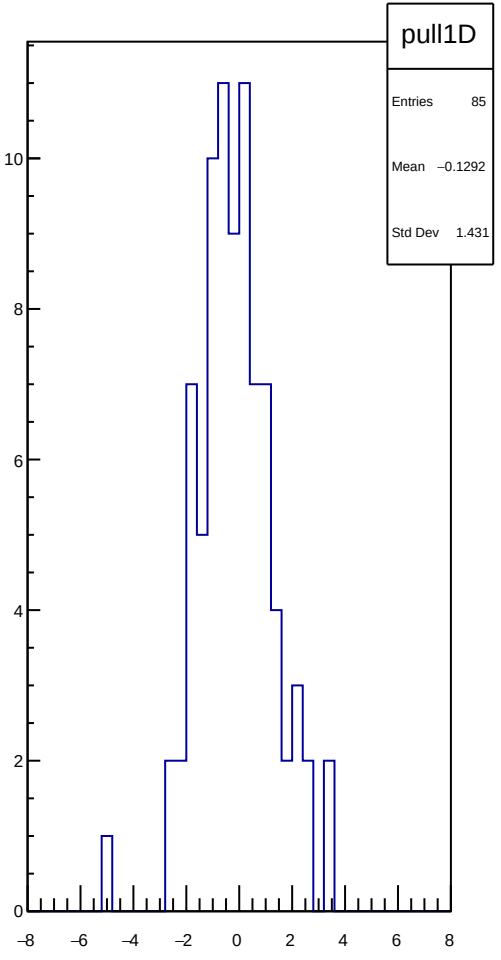

pull1D
Entries 85
Mean 0.002934
Std Dev 2.409

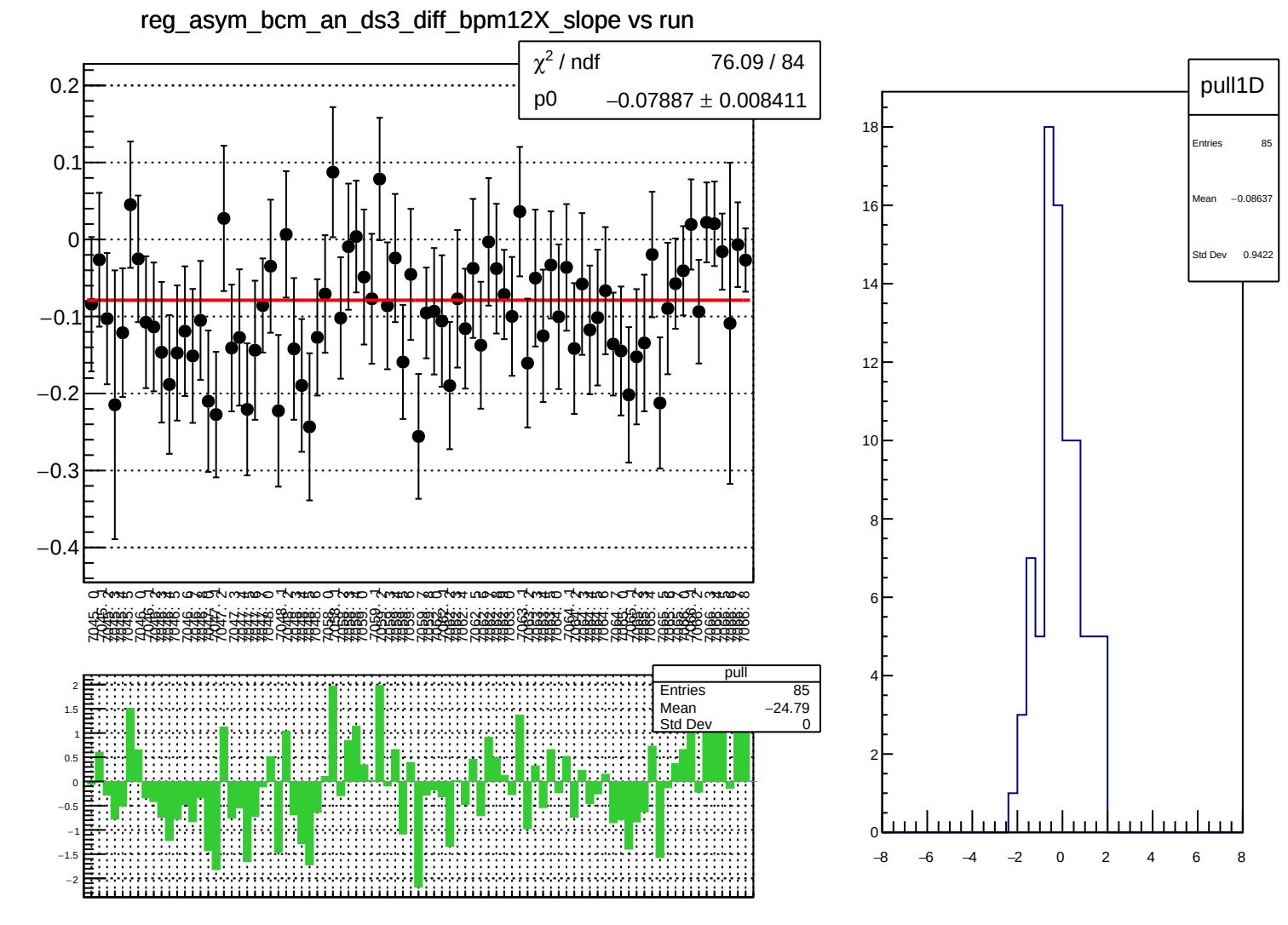

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 140.3 / 84
p0 2.539 ± 0.1707
pull
Entries 85
Mean 16.7
Std Dev 0

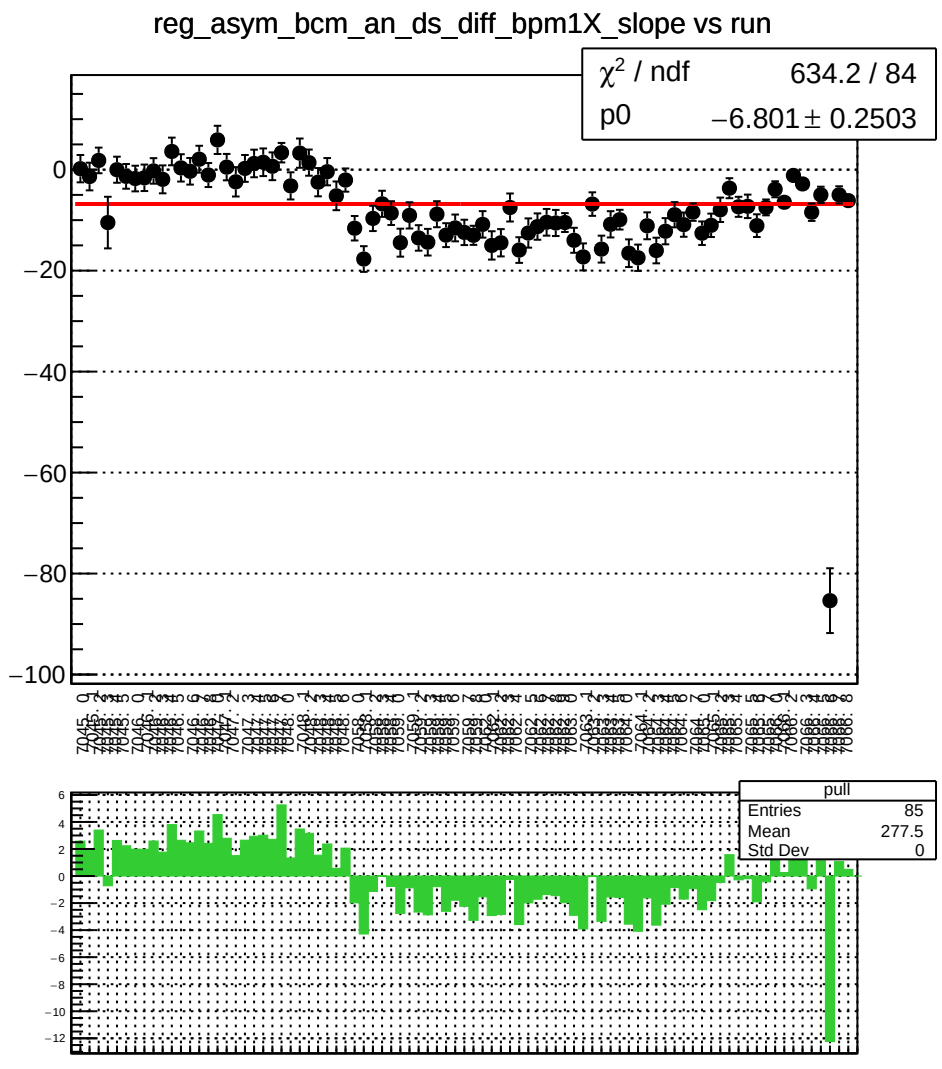

pull1D
Entries 85
Mean 0.1199
Std Dev 1.279

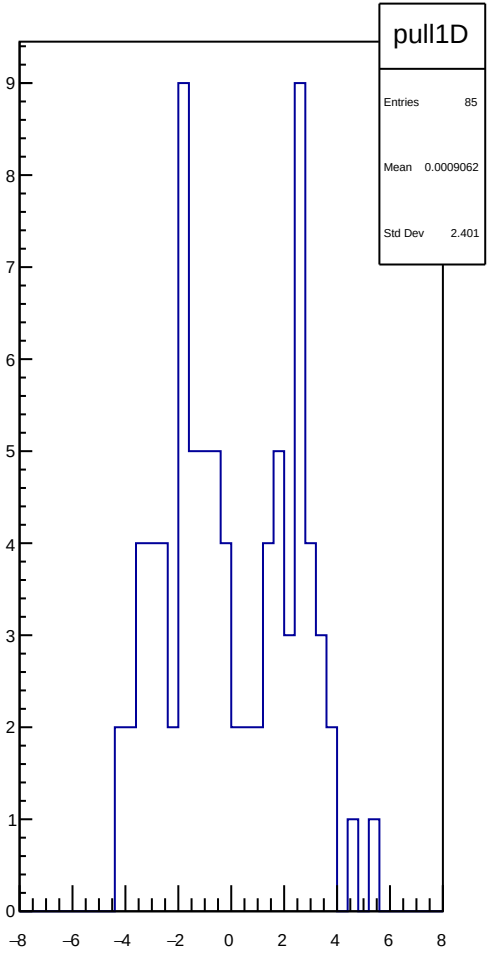

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 656.2 / 84
p0 6.025 ± 0.2398
pull
Entries 85
Mean 259.1
Std Dev 0
pull1D
Entries 85
Mean 0.01911
Std Dev 2.445

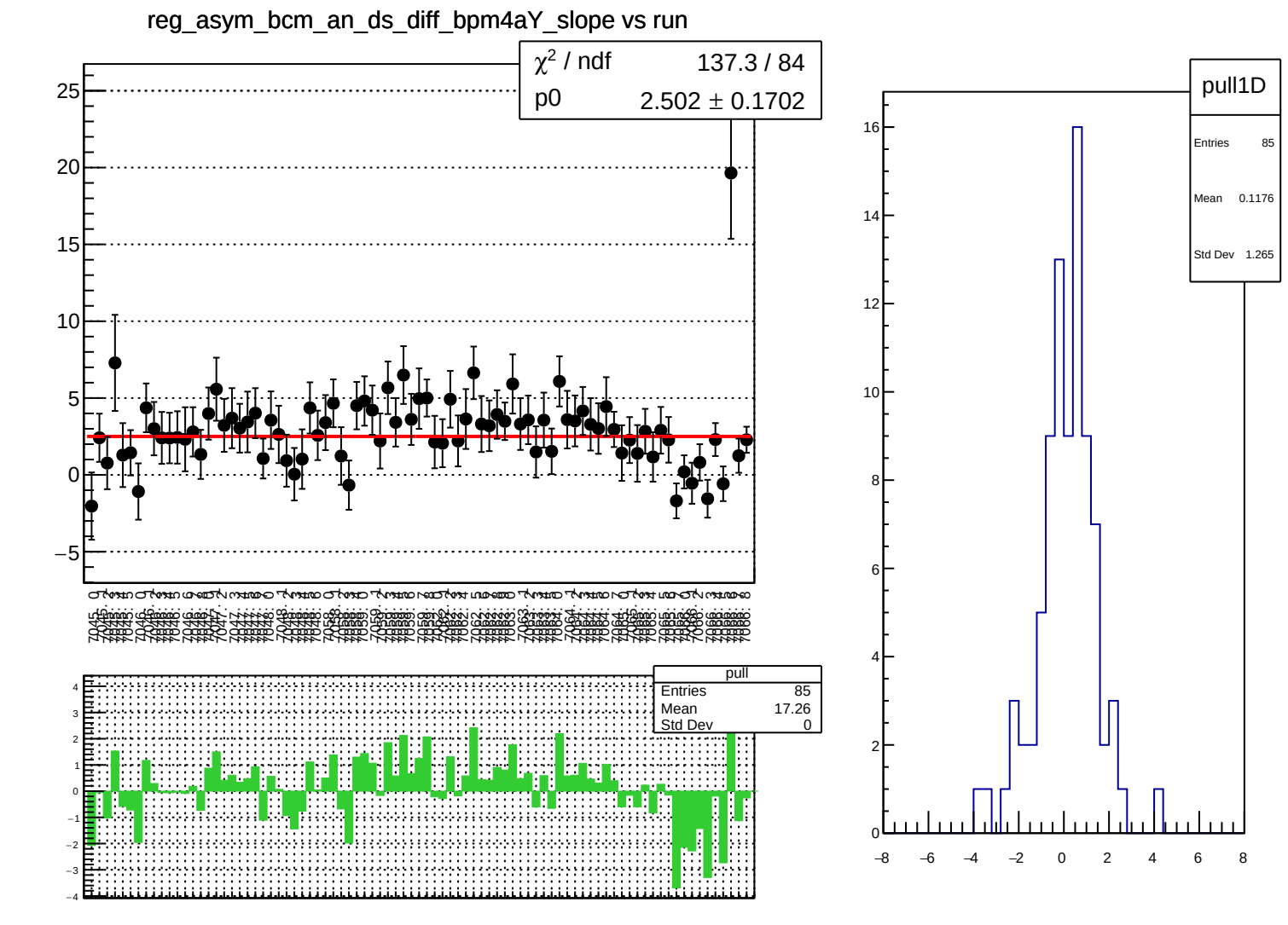

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 175.4 / 84
p0 −3.519 ± 0.1814
pull
Entries 85
Mean 60.44
Std Dev 0

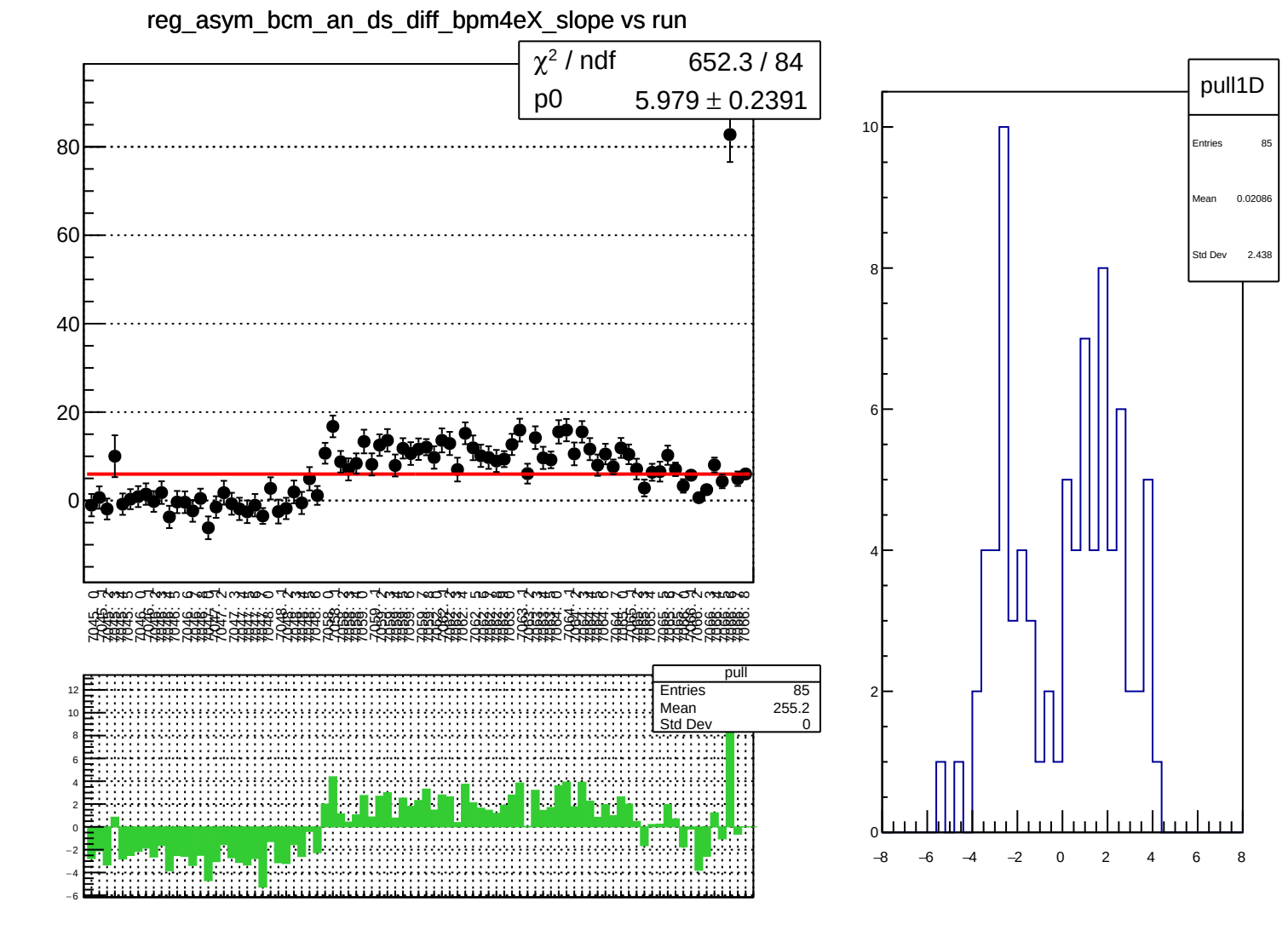

pull1D
Entries 85
Mean −0.1292
Std Dev 1.431

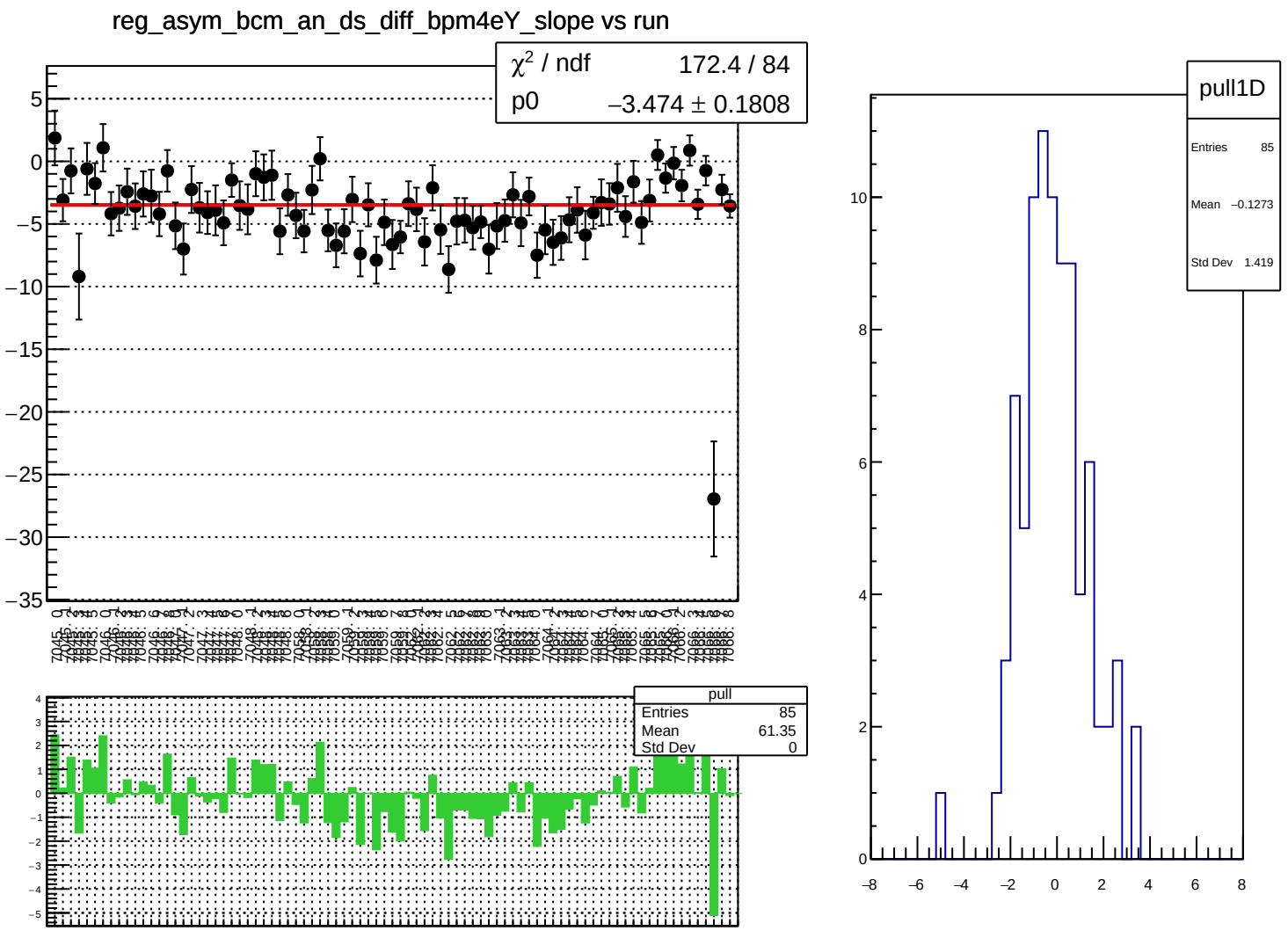

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 76.09 / 84
p0 −0.07887 ± 0.008411
pull
Entries 85
Mean −24.79
Std Dev 0
pull1D
Entries 85
Mean −0.08637
Std Dev 0.9422

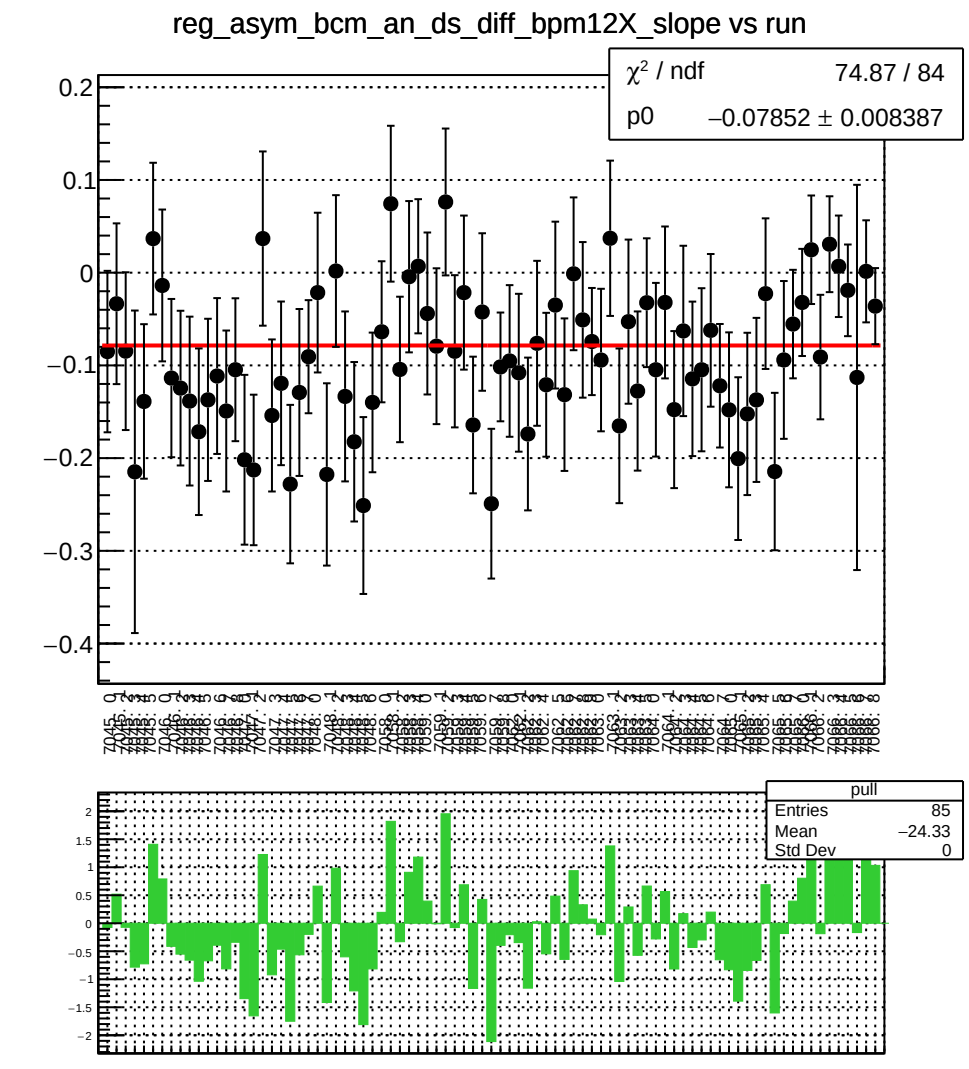

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 634.2 / 84
p0 −6.801 ± 0.2503
pull
Entries 85
Mean 277.5
Std Dev 0

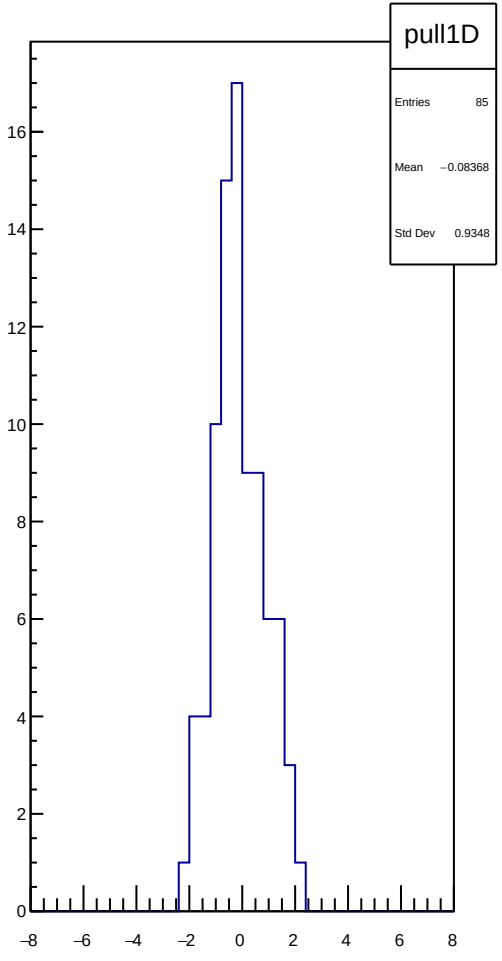

pull1D
Entries 85
Mean 0.0009062
Std Dev 2.401

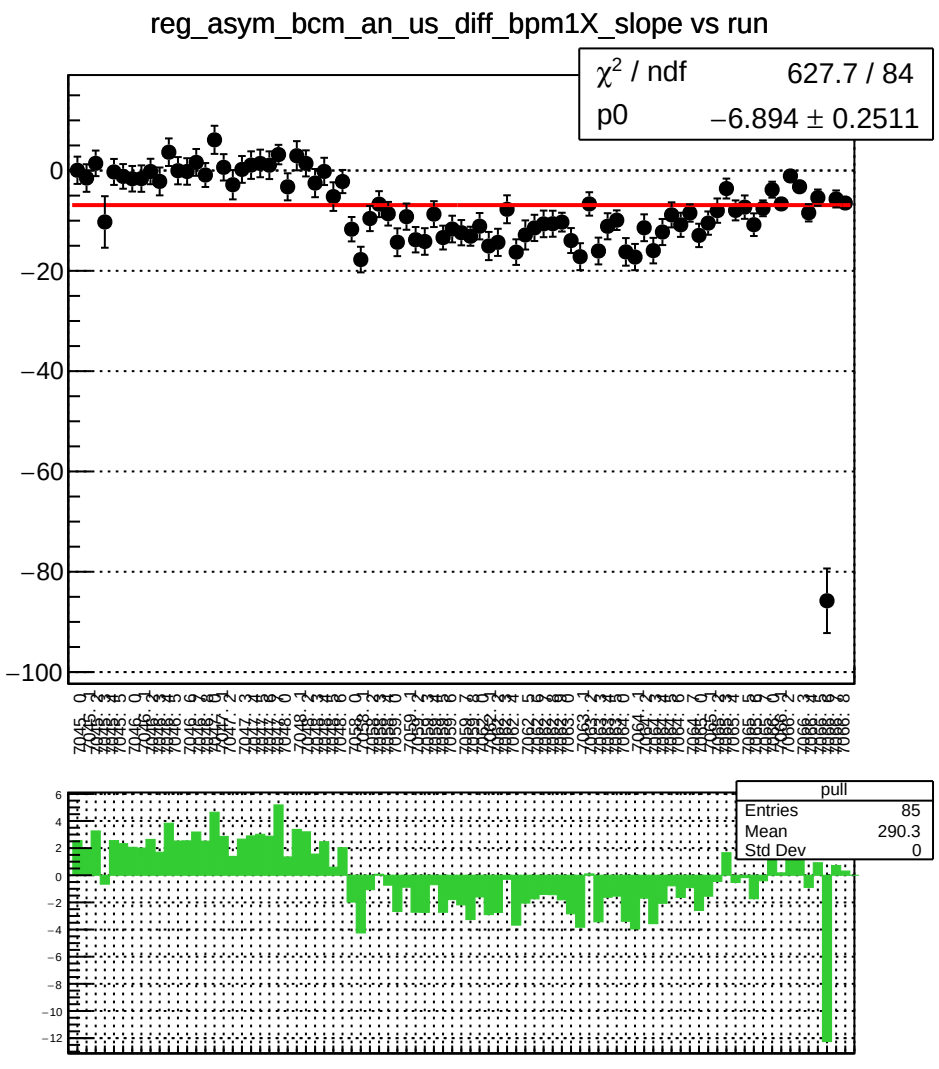

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 137.3 / 84
p0 2.502 ± 0.1702
pull
Entries 85
Mean 17.26
Std Dev 0
pull1D
Entries 85
Mean 0.1176
Std Dev 1.265

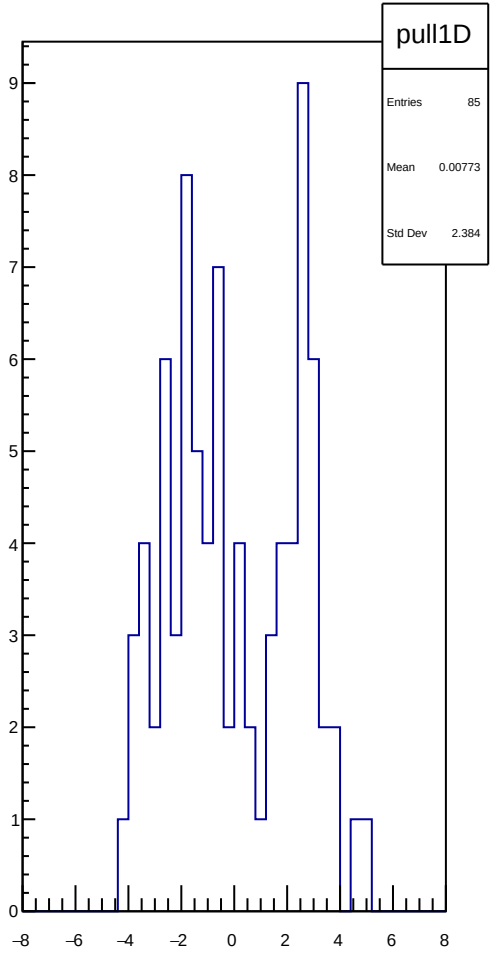

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 652.3 / 84
p0 5.979 ± 0.2391
pull
Entries 85
Mean 255.2
Std Dev 0
pull1D
Entries 85
Mean 0.02086
Std Dev 2.438

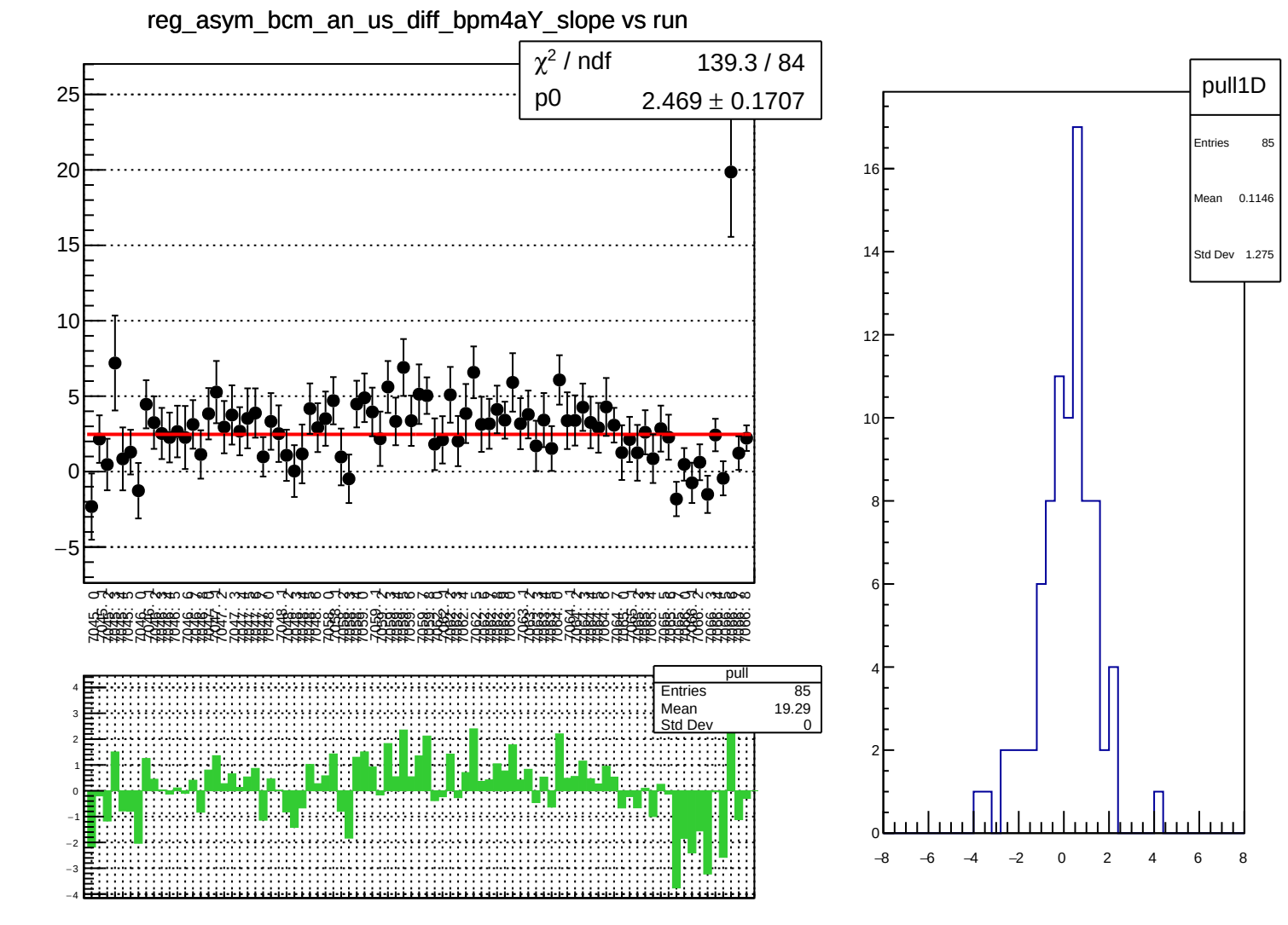

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 172.4 / 84
p0 −3.474 ± 0.1808
pull
Entries 85
Mean 61.35
Std Dev 0
pull1D
Entries 85
Mean −0.1273
Std Dev 1.419

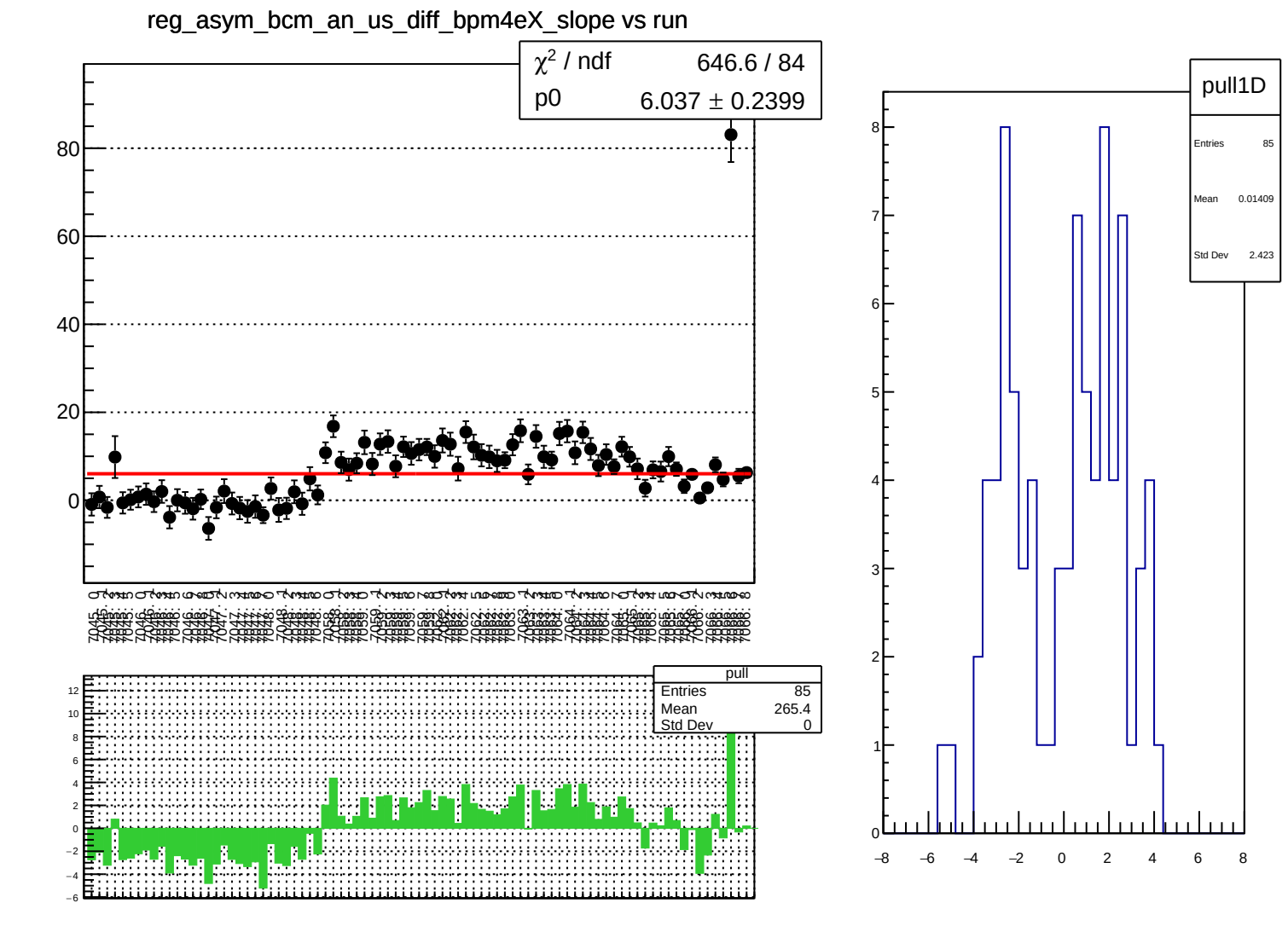

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 74.87 / 84
p0 −0.07852 ± 0.008387
pull
Entries 85
Mean −24.33
Std Dev 0

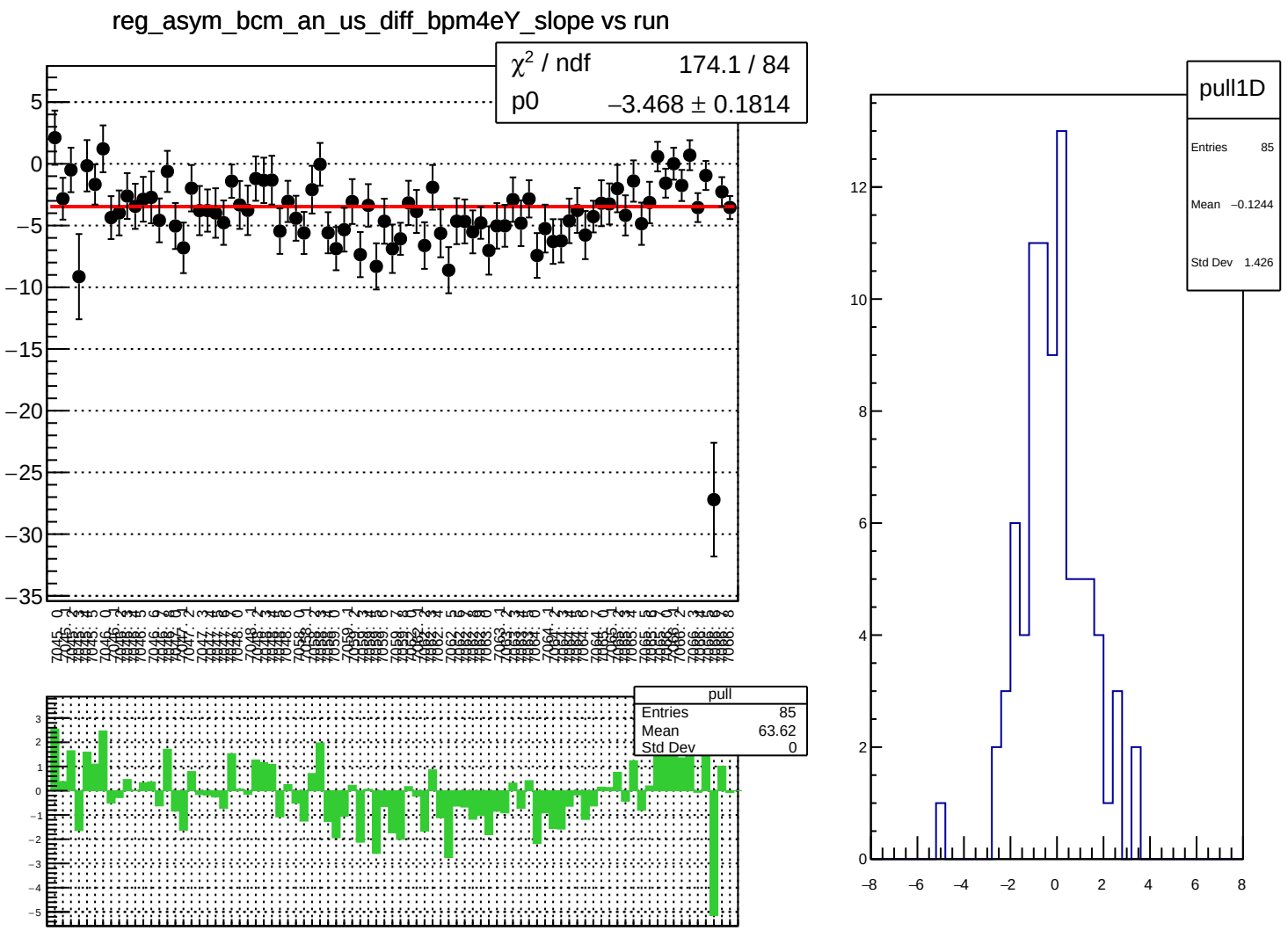

pull1D
Entries 85
Mean −0.08368
Std Dev 0.9348

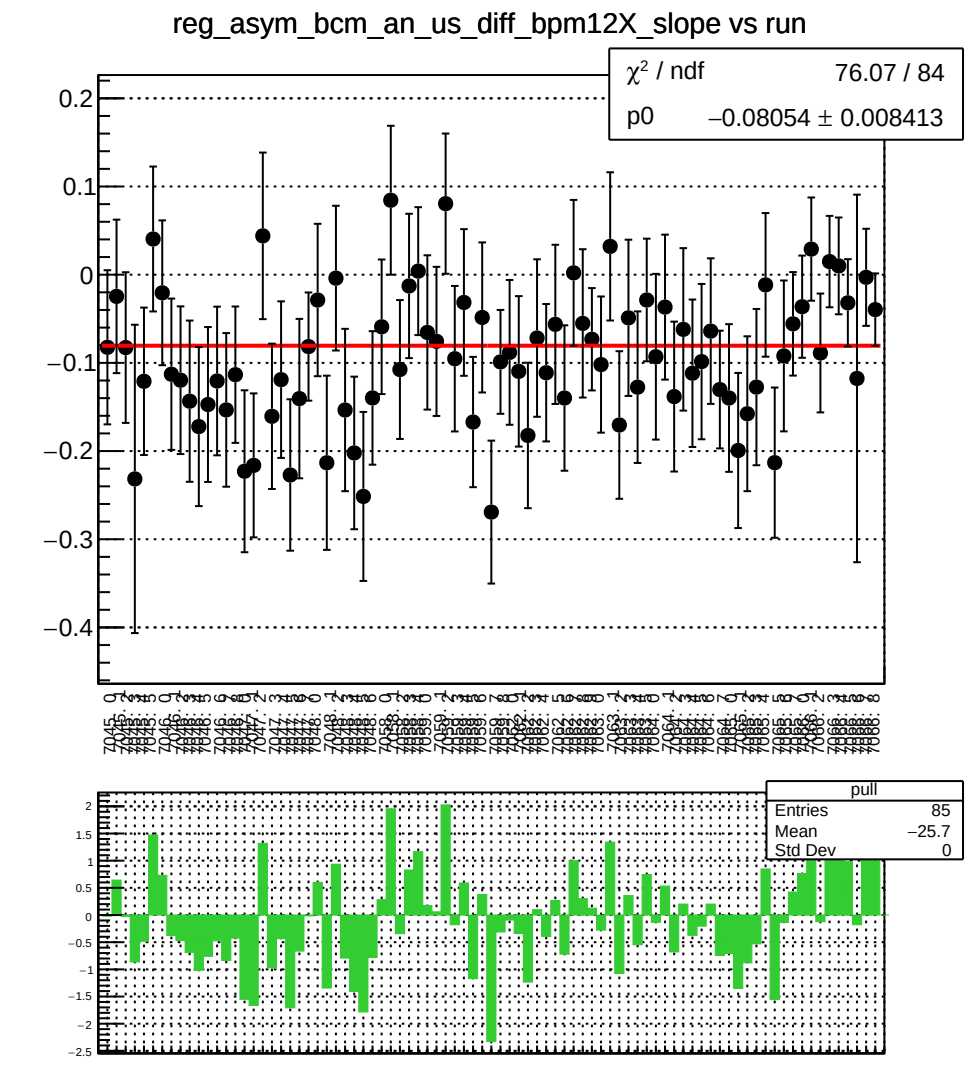

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 627.7 / 84
p0 −6.894 ± 0.2511
pull
Entries 85
Mean 290.3
Std Dev 0

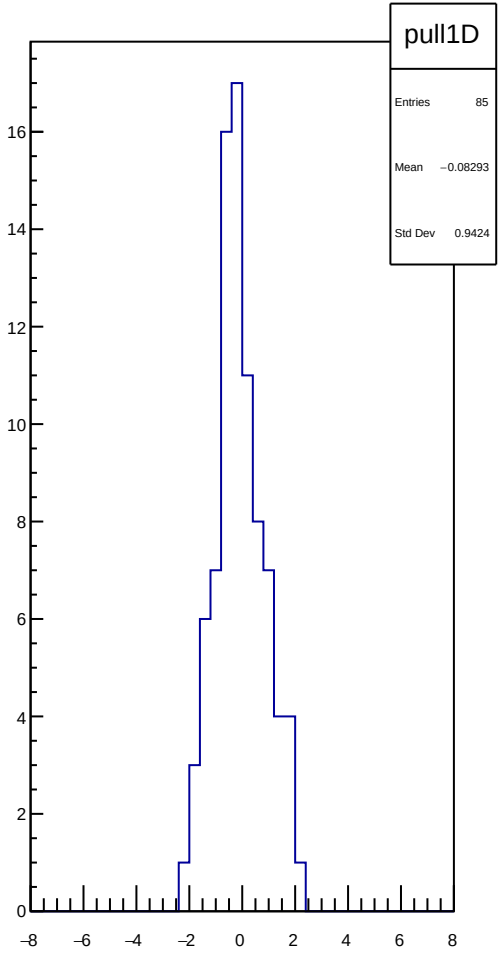

pull1D
Entries 85
Mean 0.00773
Std Dev 2.384

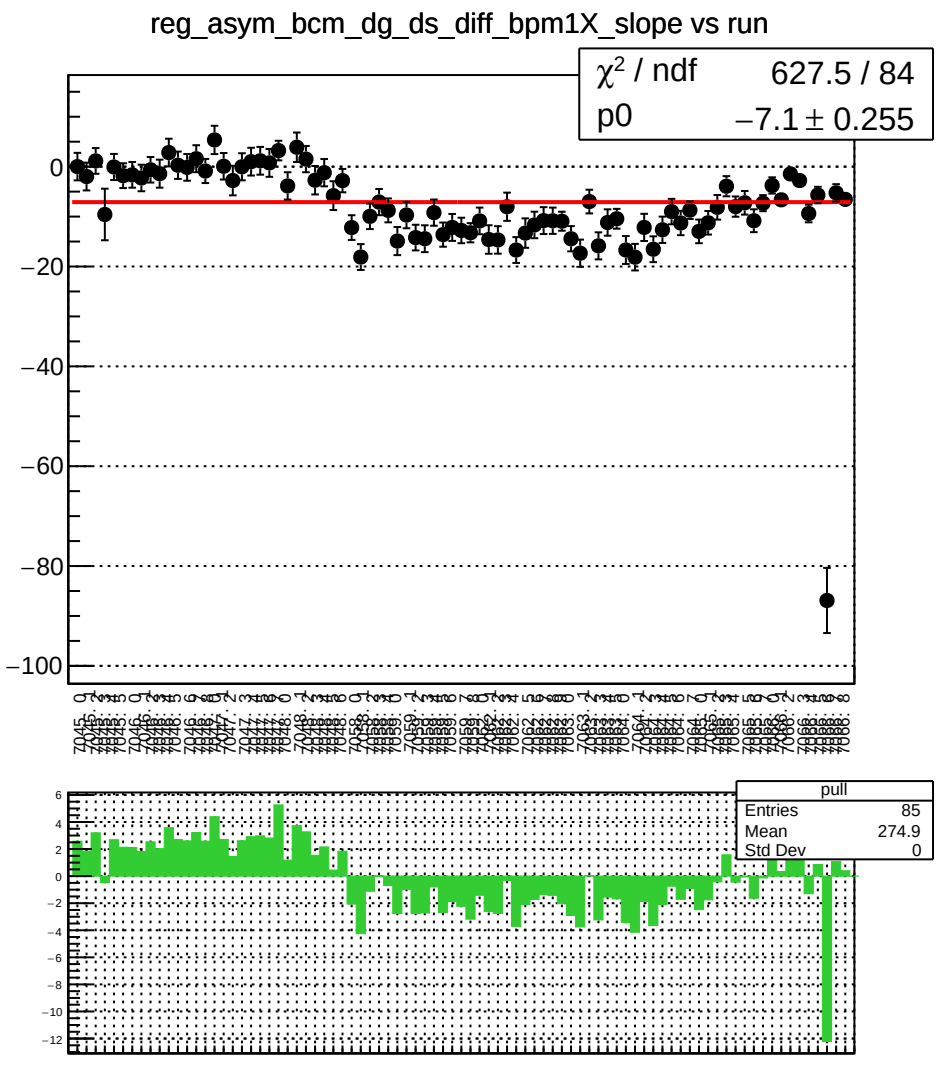

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 139.3 / 84
p0 2.469 ± 0.1707
pull
Entries 85
Mean 19.29
Std Dev 0
pull1D
Entries 85
Mean 0.1146
Std Dev 1.275

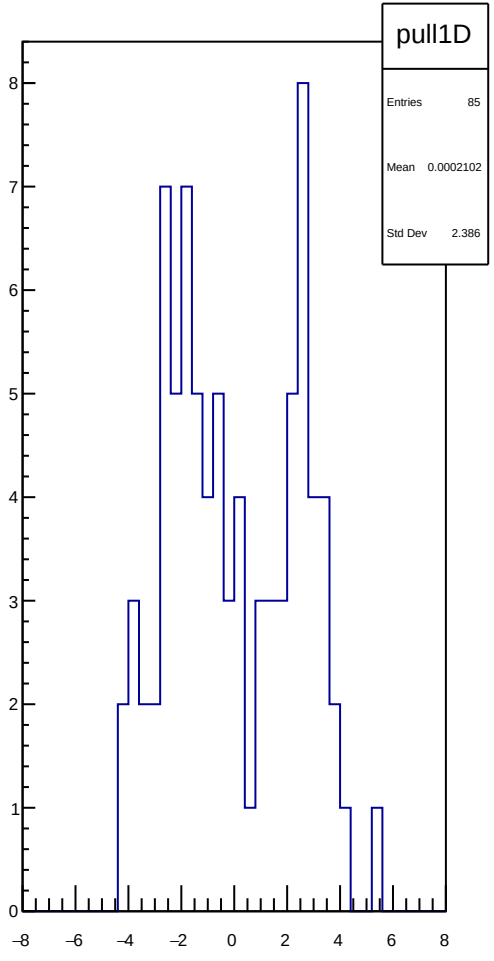

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 646.6 / 84
p0 6.037 ± 0.2399
pull
Entries 85
Mean 265.4
Std Dev 0
pull1D
Entries 85
Mean 0.01409
Std Dev 2.423

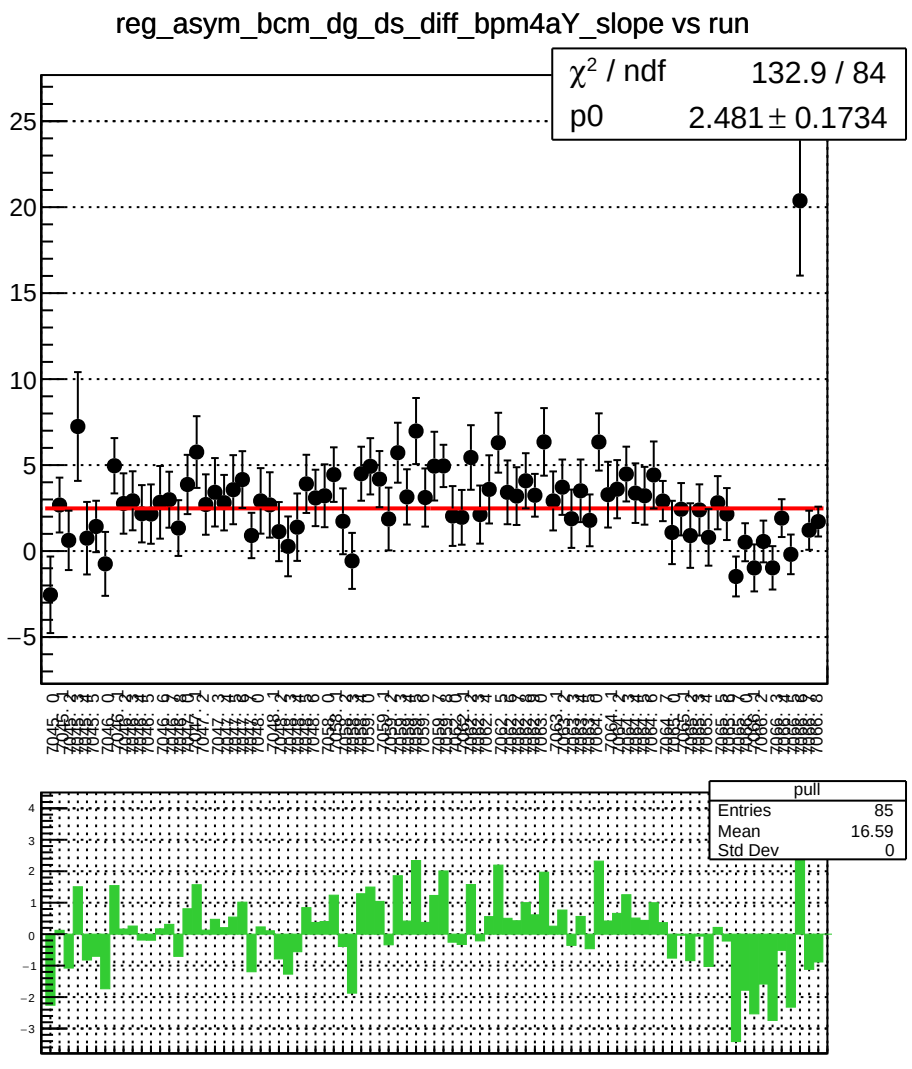

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 174.1 / 84
p0 −3.468 ± 0.1814
pull
Entries 85
Mean 63.62
Std Dev 0
pull1D
Entries 85
Mean −0.1244
Std Dev 1.426

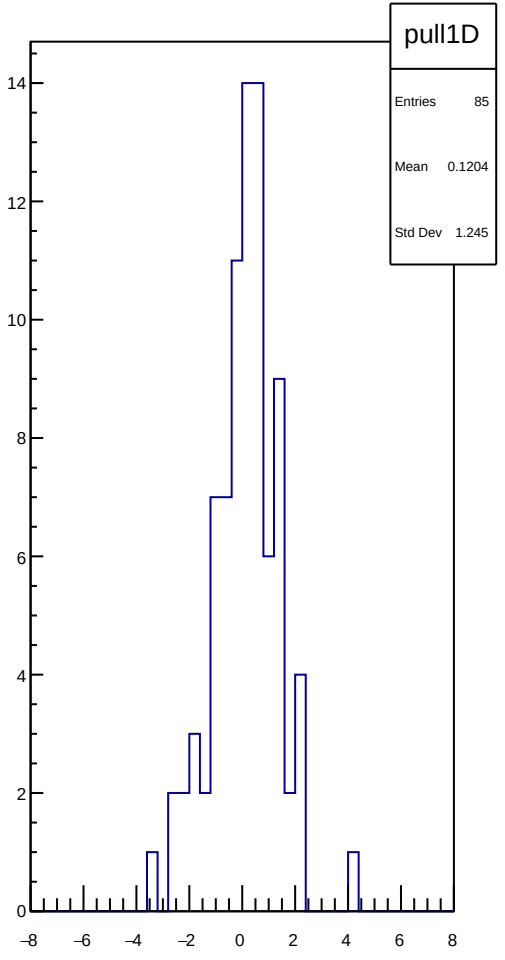

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 76.07 / 84
p0 −0.08054 ± 0.008413
pull
Entries 85
Mean −25.7
Std Dev 0

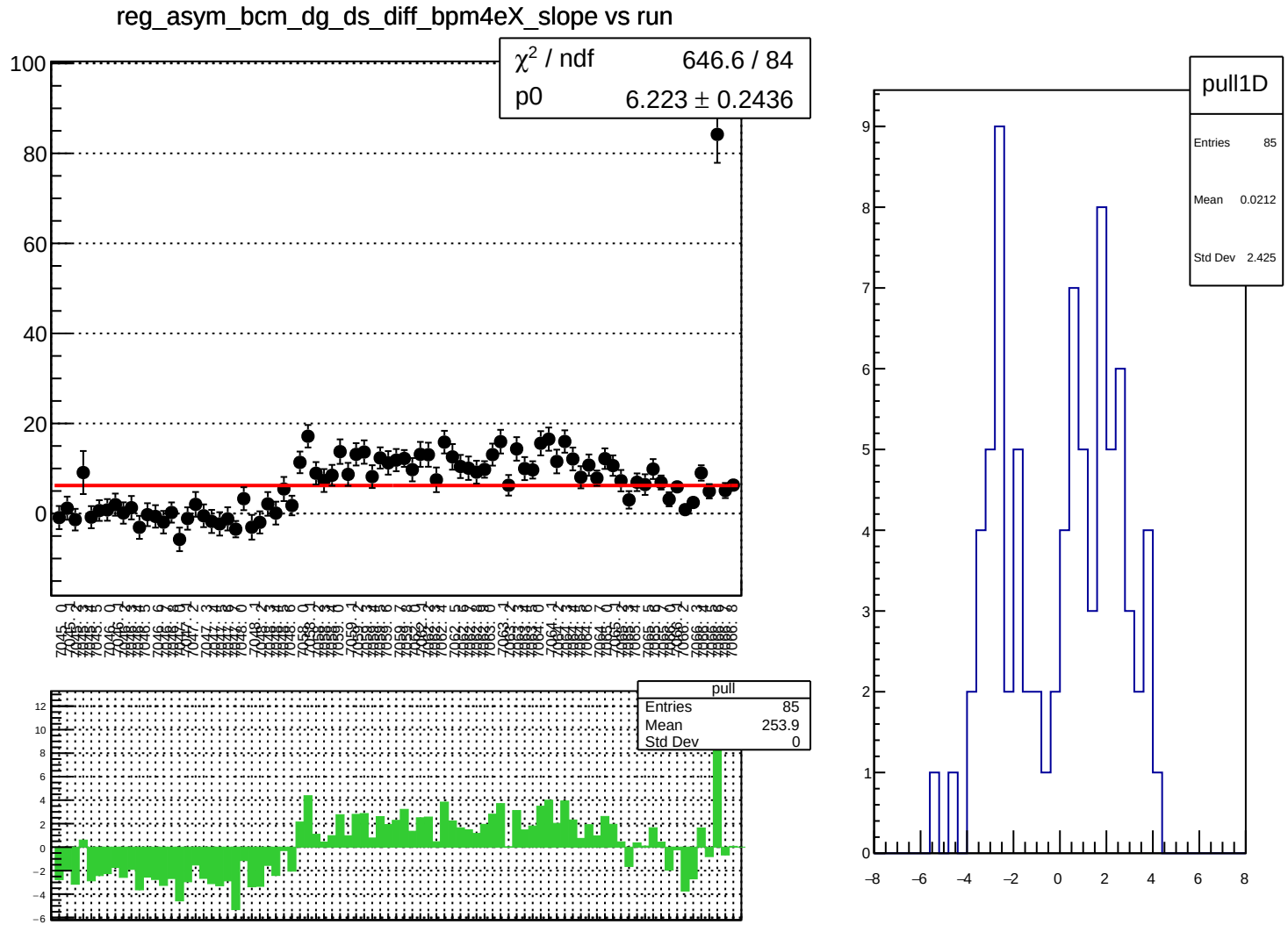

pull1D
Entries 85
Mean −0.08293
Std Dev 0.9424

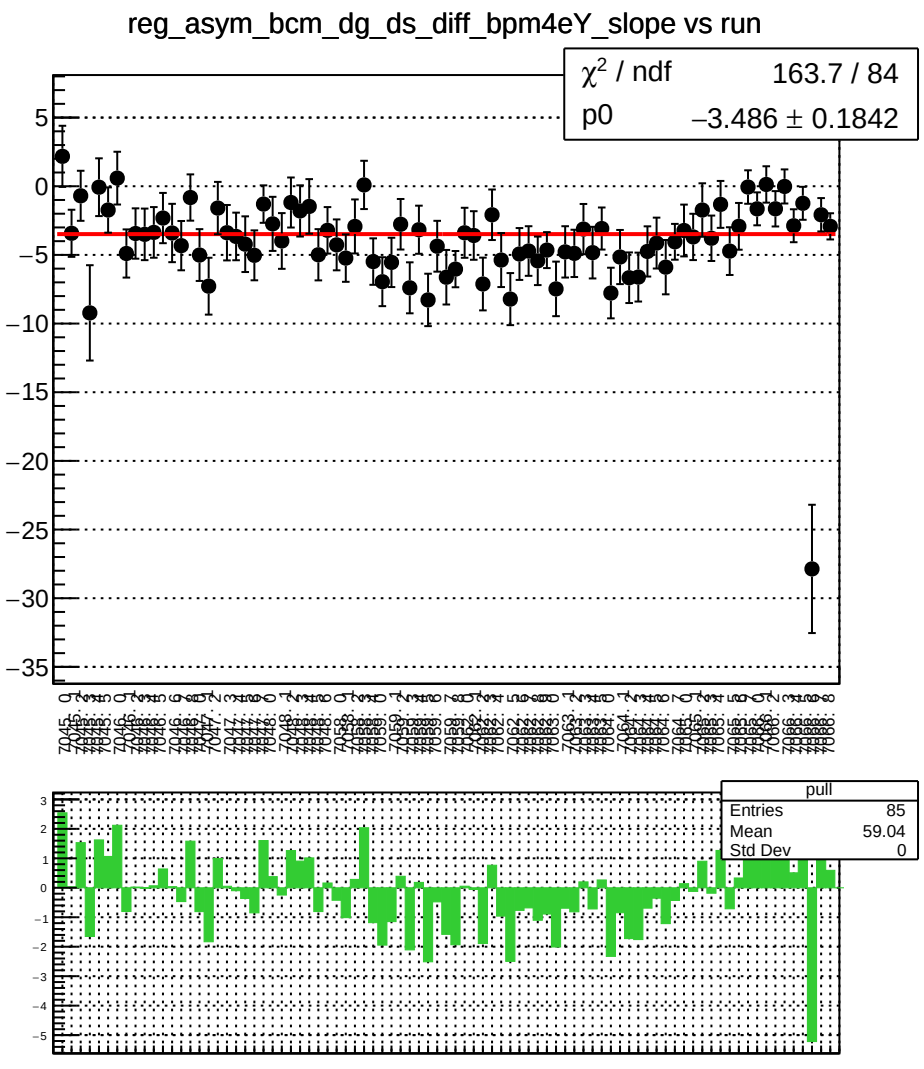

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 627.5 / 84
p0 −7.1 ± 0.255
pull
Entries 85
Mean 274.9
Std Dev 0

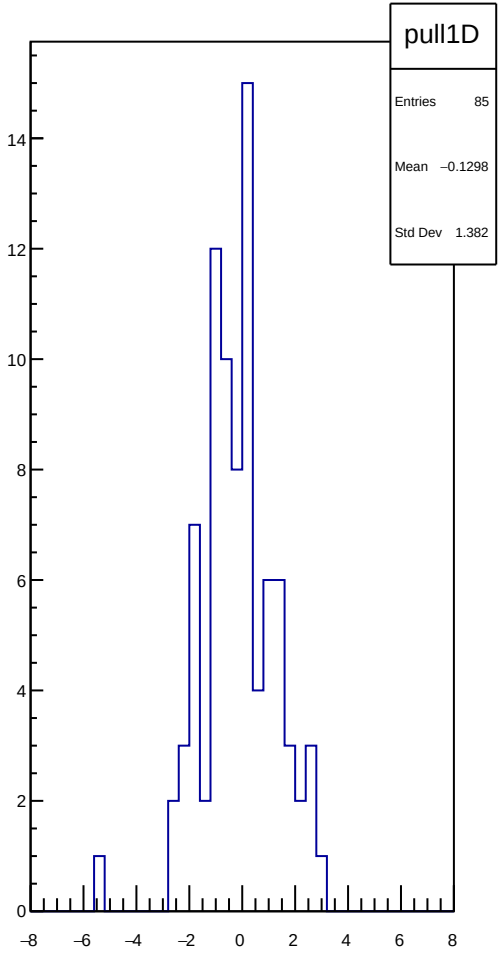

pull1D
Entries 85
Mean 0.0002102
Std Dev 2.386

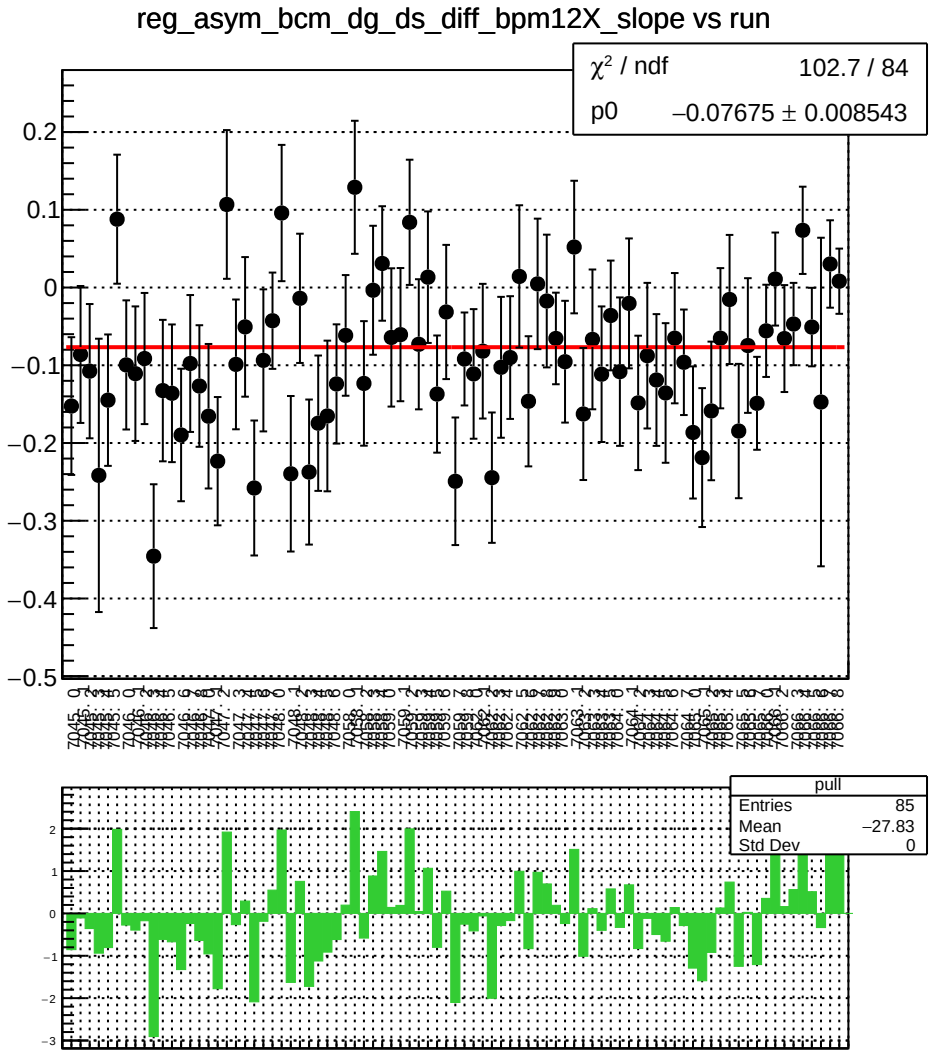

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 132.9 / 84
p0 2.481 ± 0.1734
pull
Entries 85
Mean 16.59
Std Dev 0

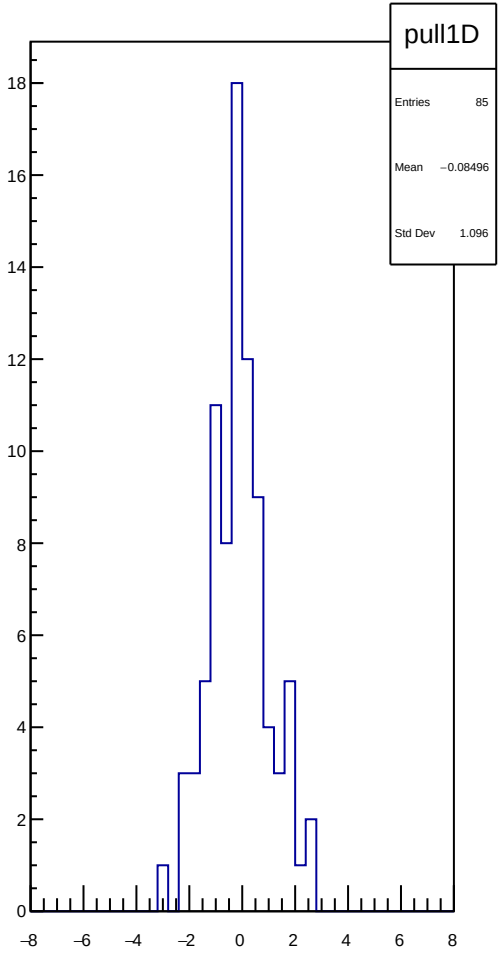

pull1D
Entries 85
Mean 0.1204
Std Dev 1.245

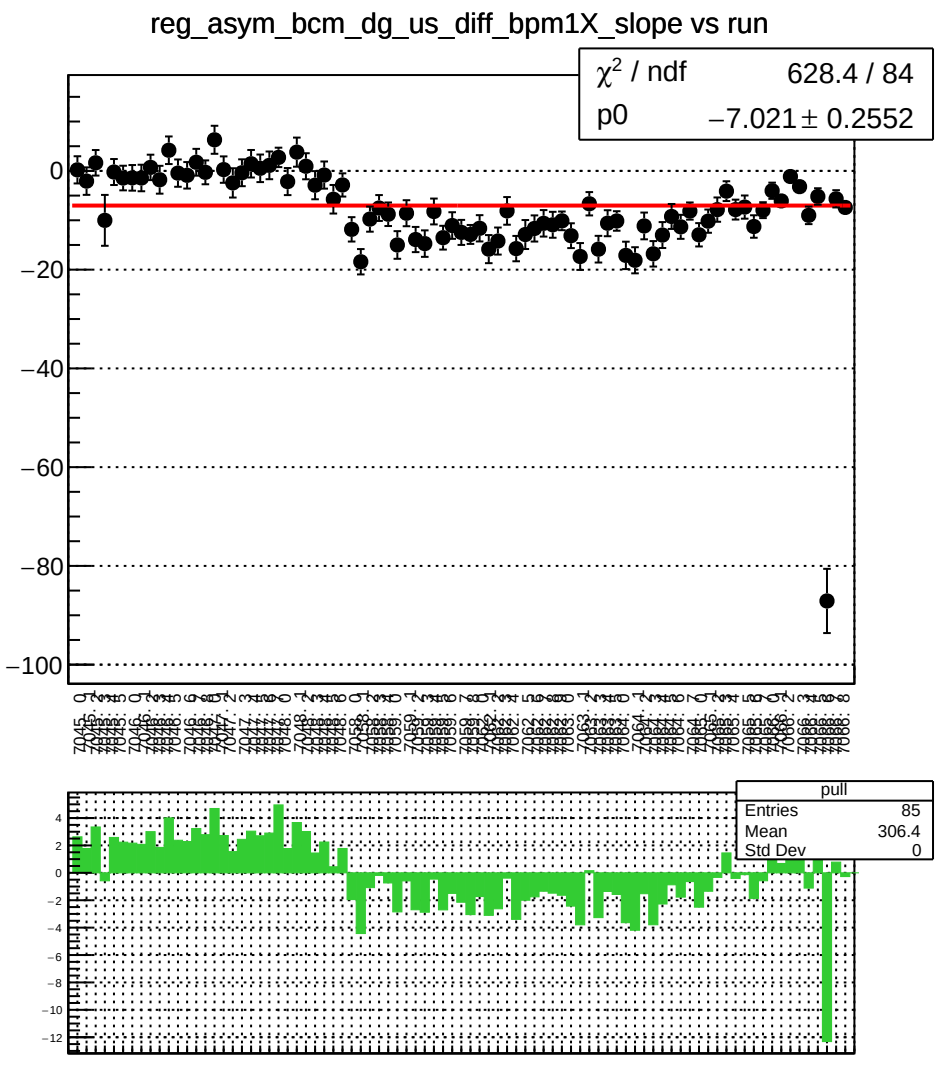

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 646.6 / 84
p0 6.223 ± 0.2436
pull
Entries 85
Mean 253.9
Std Dev 0
pull1D
Entries 85
Mean 0.0212
Std Dev 2.425

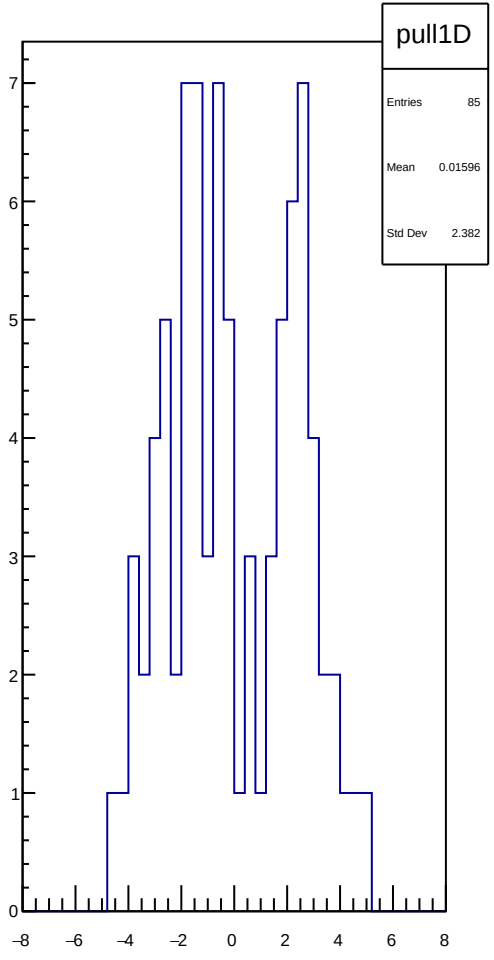

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 163.7 / 84
p0 −3.486 ± 0.1842
pull
Entries 85
Mean 59.04
Std Dev 0

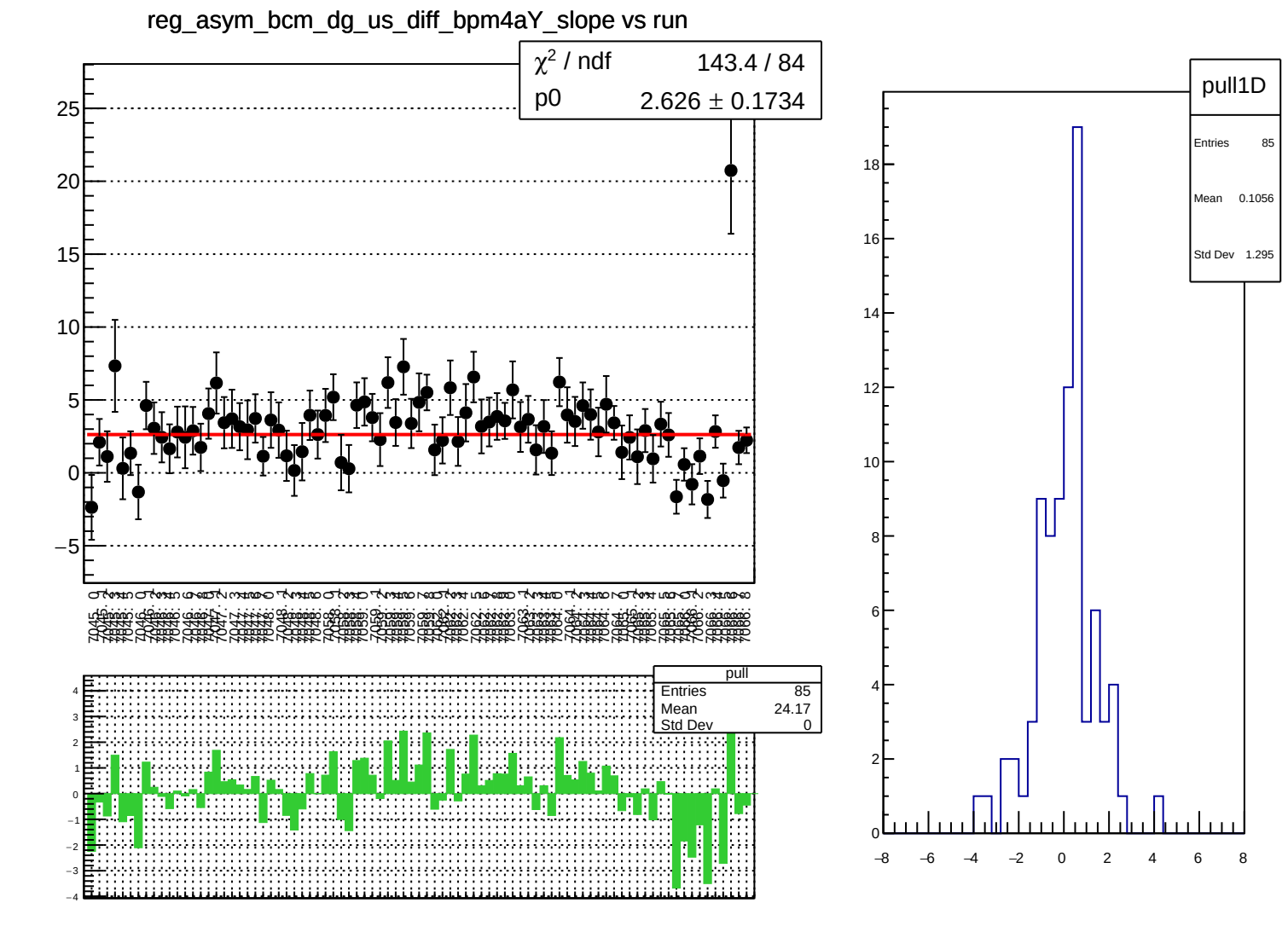

pull1D
Entries 85
Mean −0.1298
Std Dev 1.382

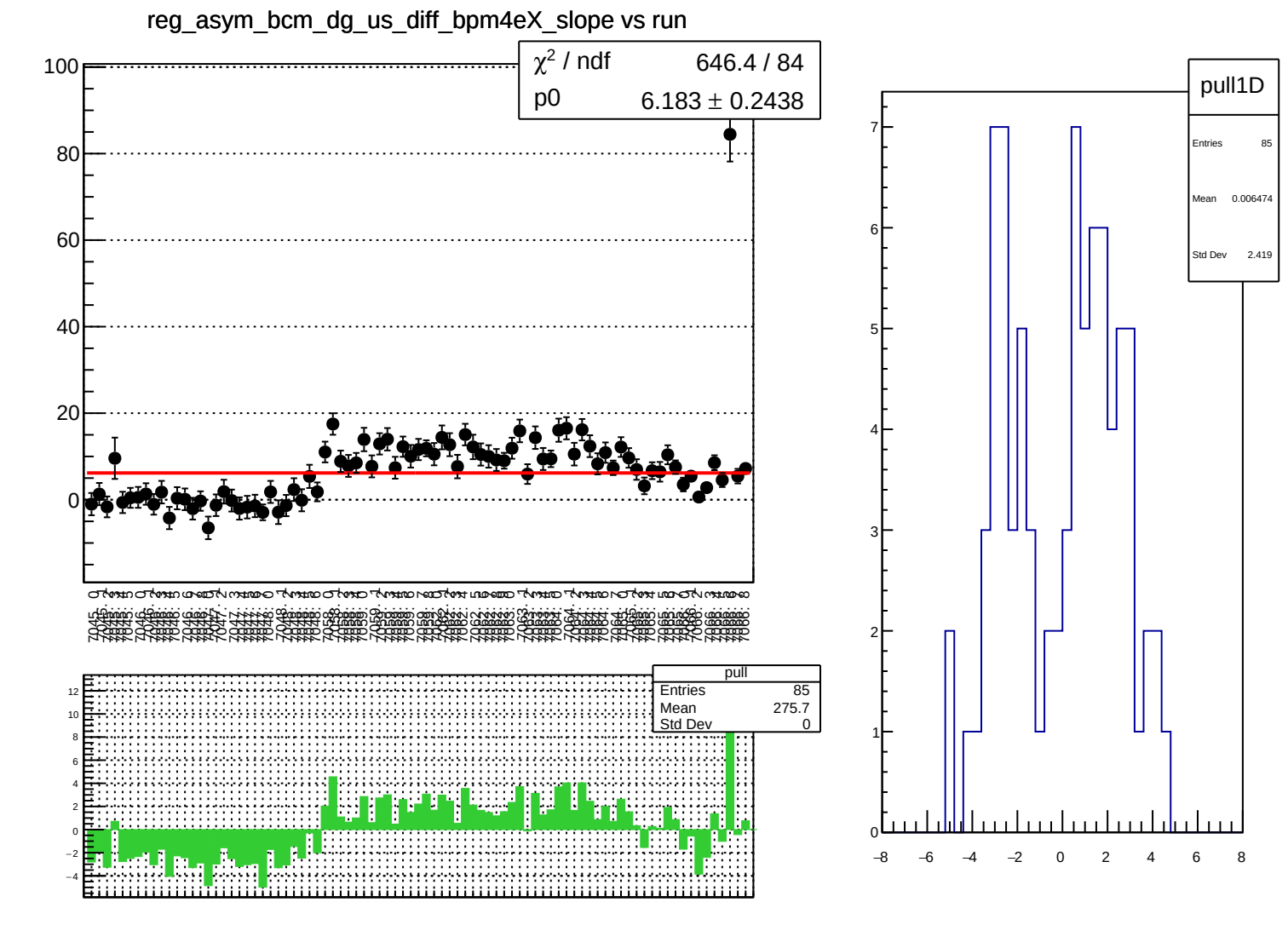

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 102.7 / 84
p0 −0.07675 ± 0.008543
pull
Entries 85
Mean −27.83
Std Dev 0

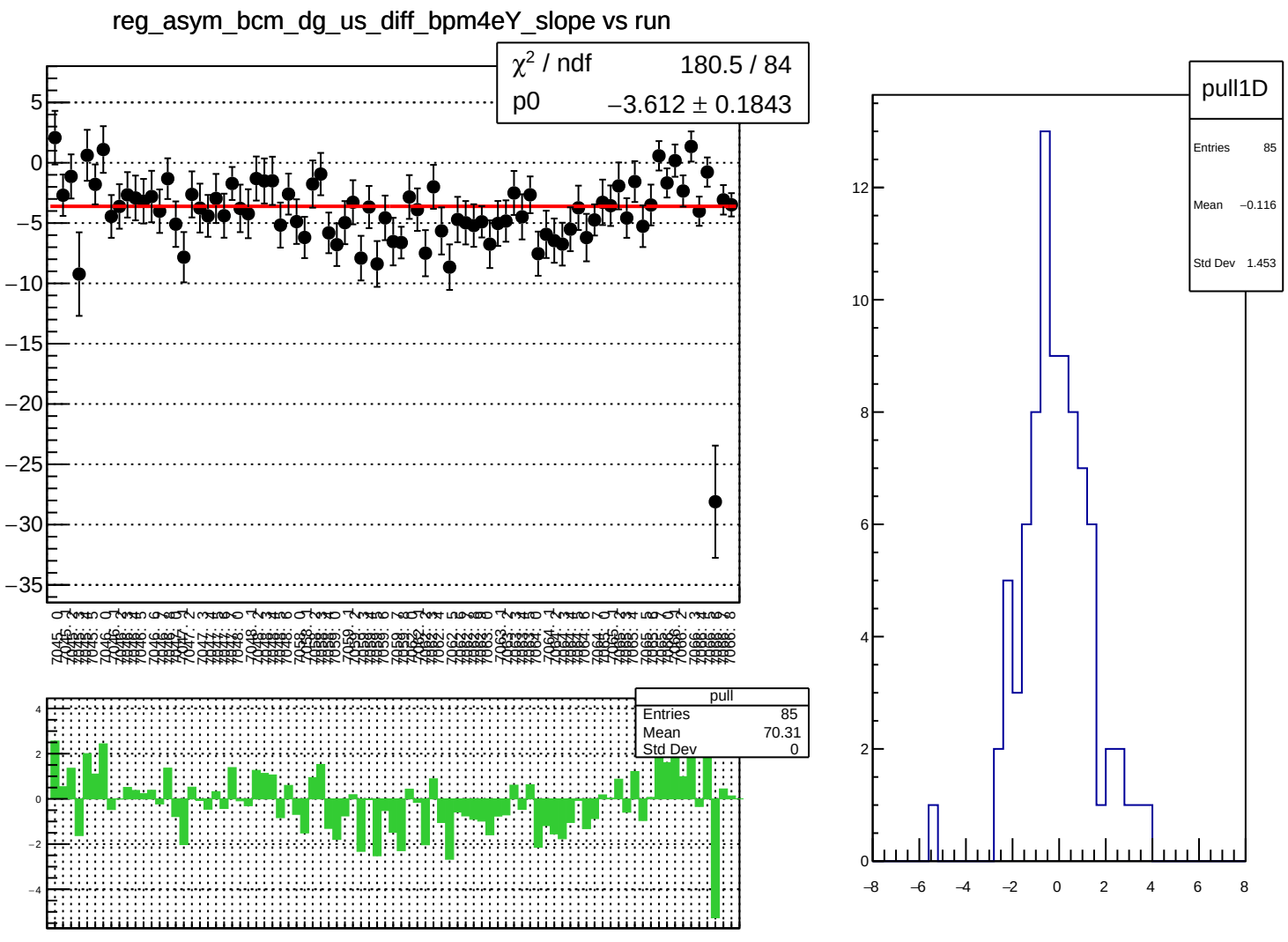

pull1D
Entries 85
Mean −0.08496
Std Dev 1.096

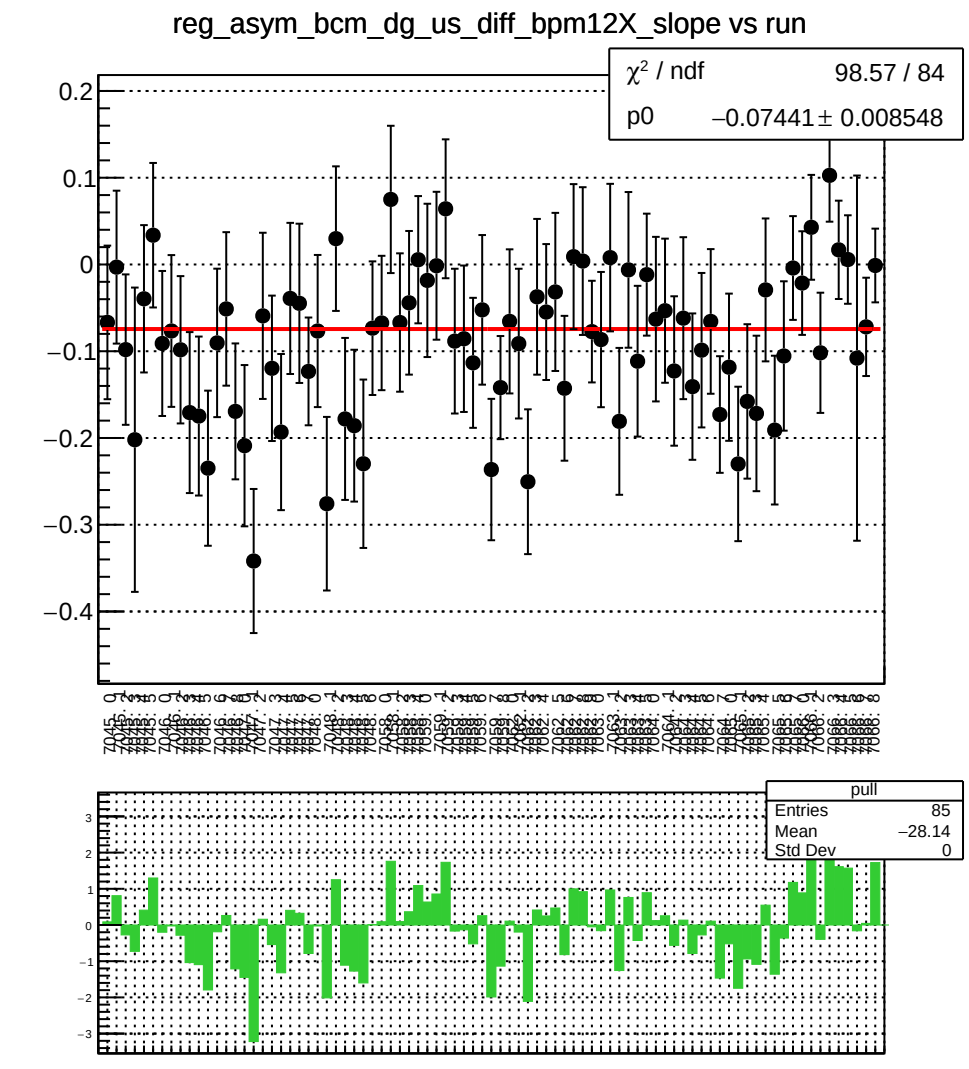

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 628.4 / 84
p0 −7.021 ± 0.2552
pull
Entries 85
Mean 306.4
Std Dev 0

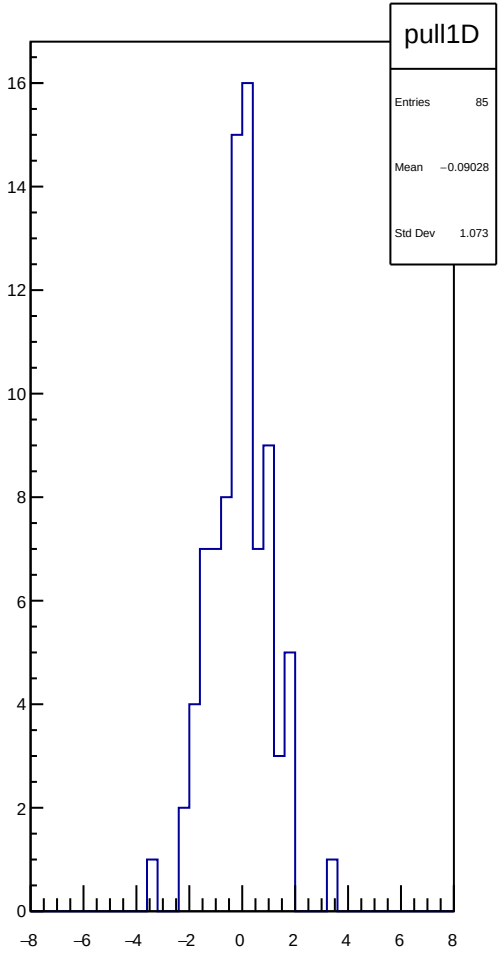

pull1D
Entries 85
Mean 0.01596
Std Dev 2.382

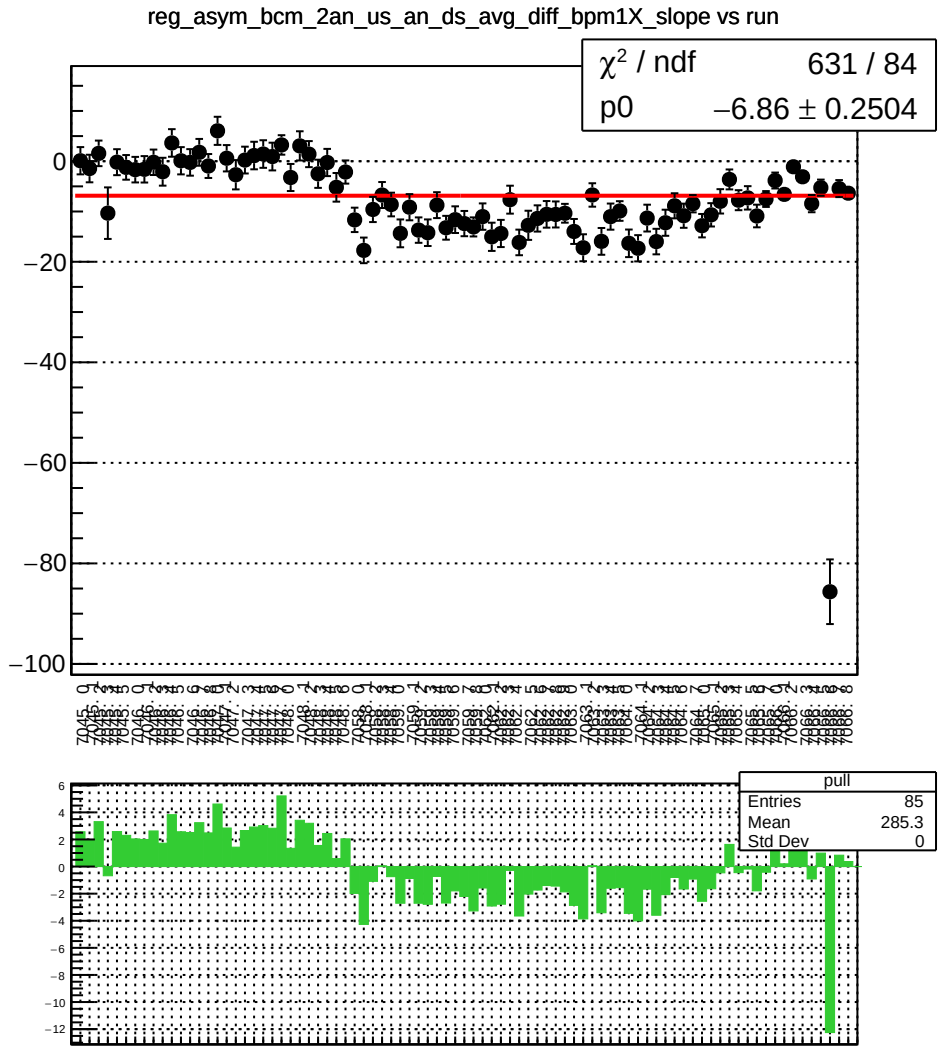

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 143.4 / 84
p0 2.626 ± 0.1734
pull
Entries 85
Mean 24.17
Std Dev 0
pull1D
Entries 85
Mean 0.1056
Std Dev 1.295

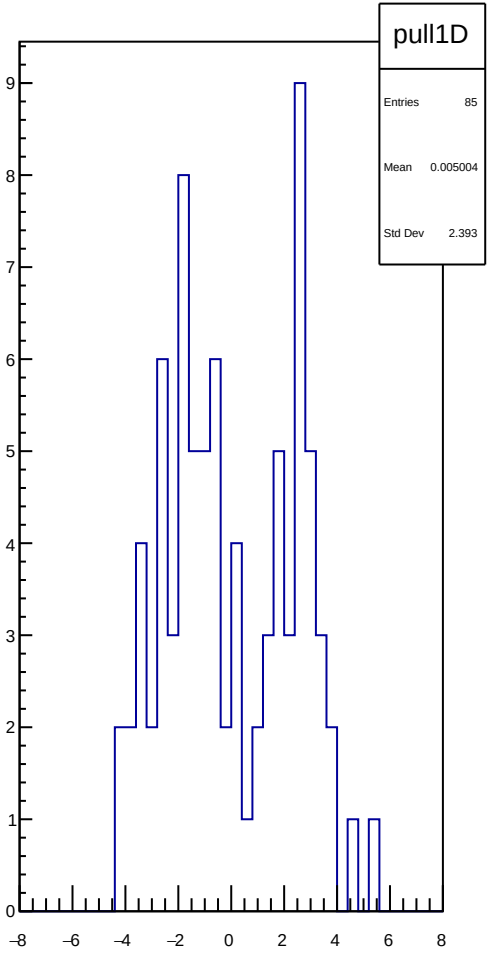

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 646.4 / 84
p0 6.183 ± 0.2438
pull
Entries 85
Mean 275.7
Std Dev 0
pull1D
Entries 85
Mean 0.006474
Std Dev 2.419

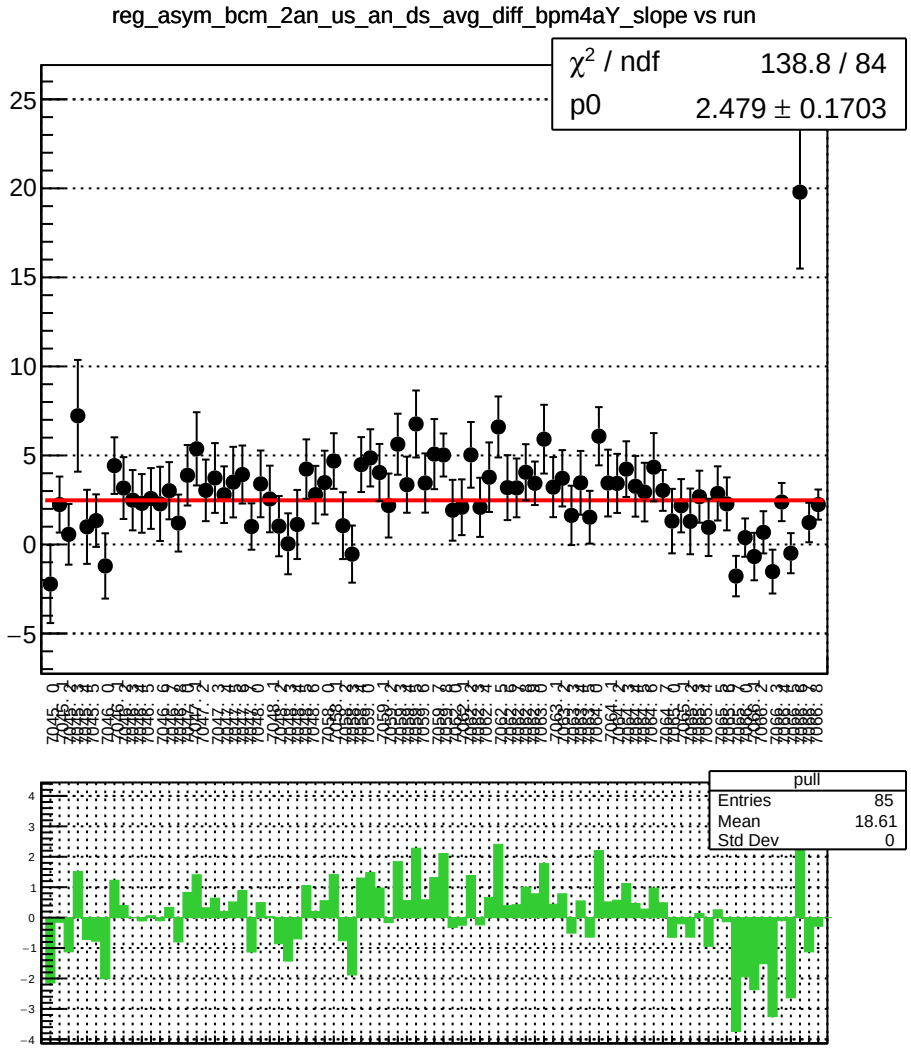

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 180.5 / 84
p0 −3.612 ± 0.1843
pull
Entries 85
Mean 70.31
Std Dev 0
pull1D
Entries 85
Mean −0.116
Std Dev 1.453

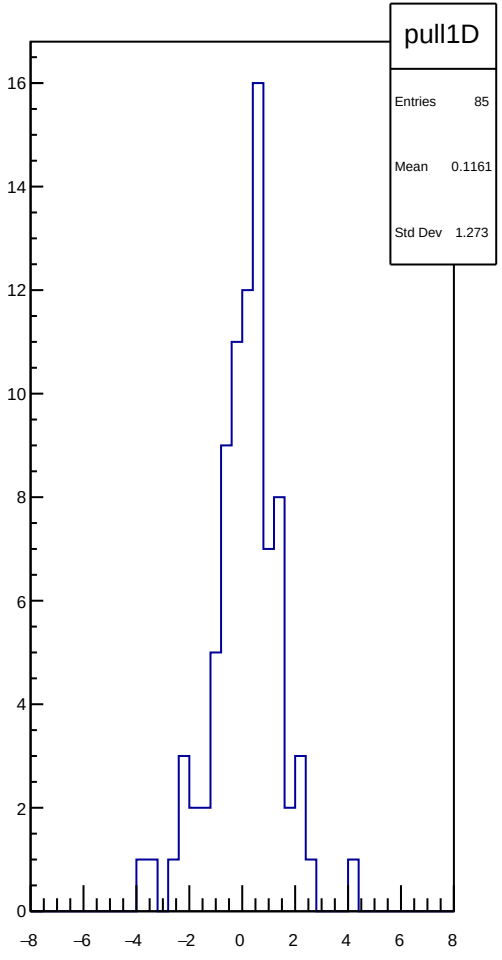

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 98.57 / 84
p0 −0.07441 ± 0.008548
pull
Entries 85
Mean −28.14
Std Dev 0

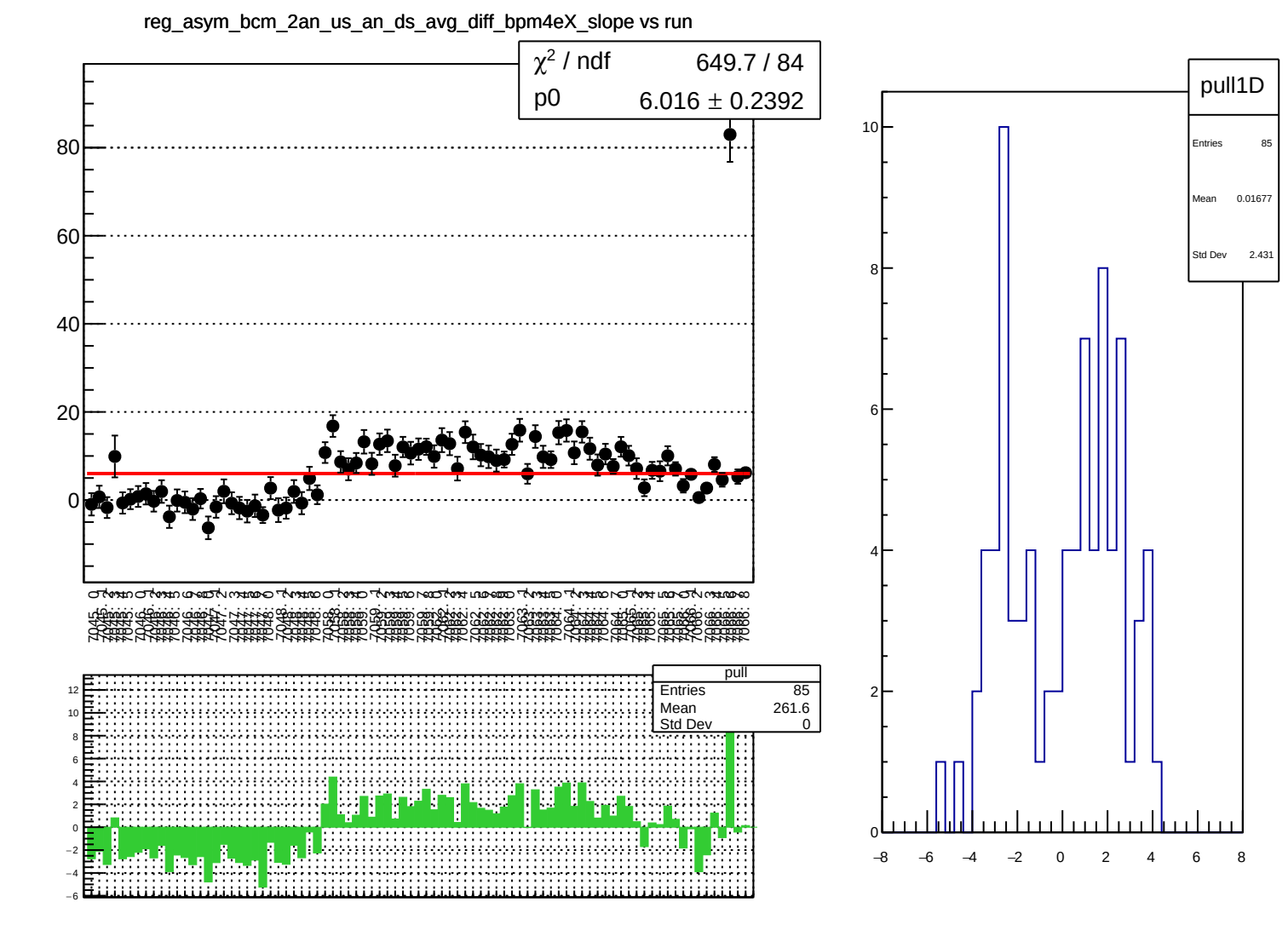

pull1D
Entries 85
Mean −0.09028
Std Dev 1.073

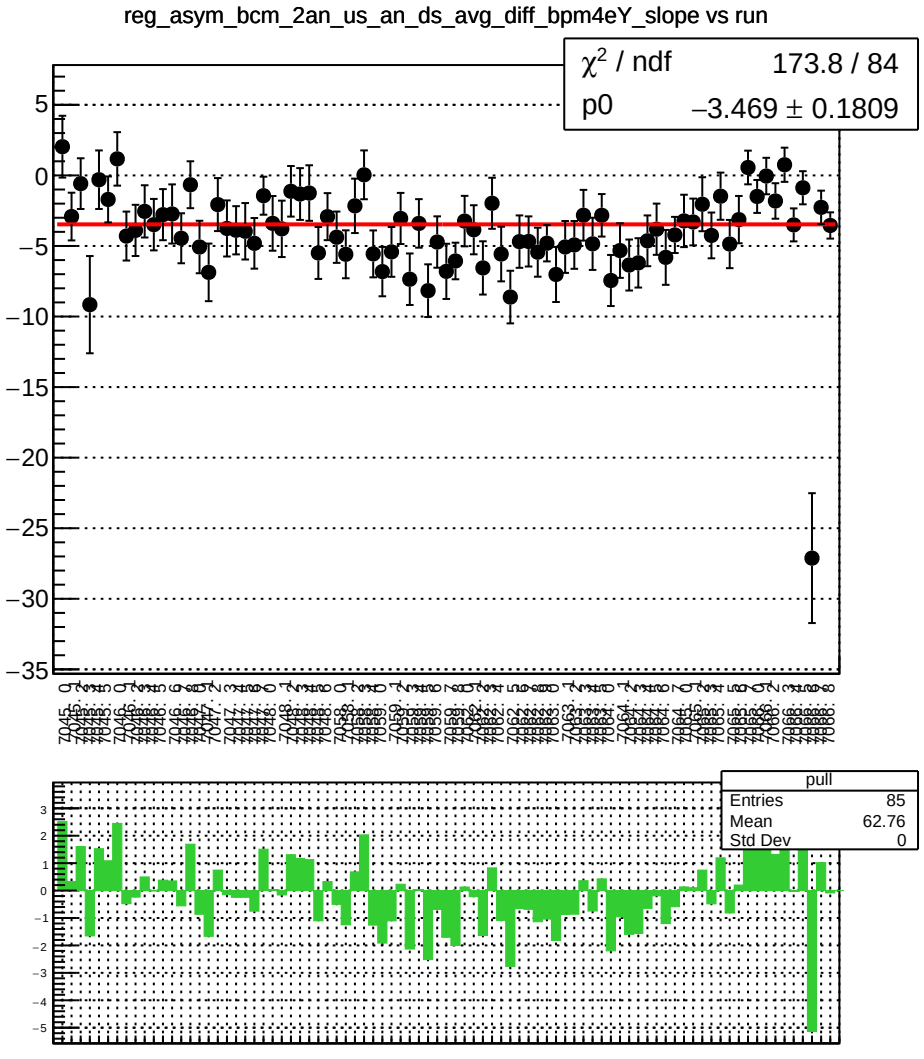

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 631 / 84
p0 −6.86 ± 0.2504
pull
Entries 85
Mean 285.3
Std Dev 0

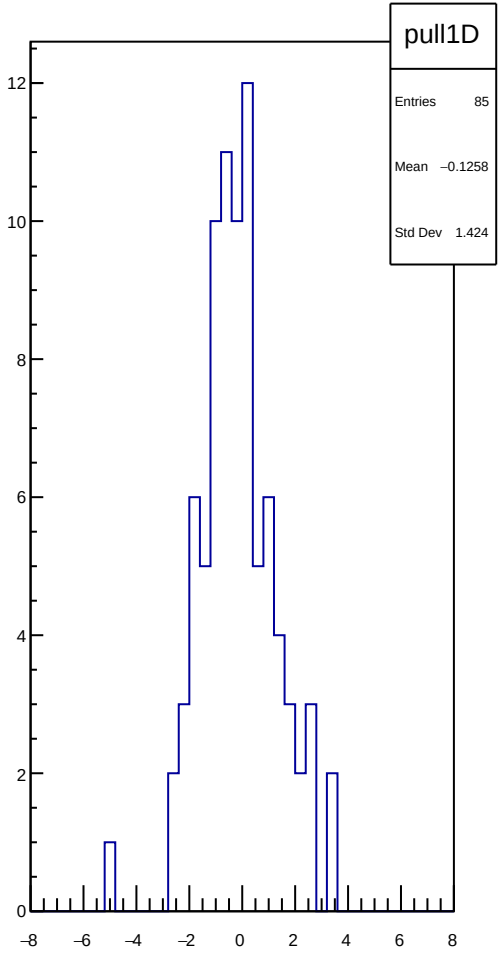

pull1D
Entries 85
Mean 0.005004
Std Dev 2.393

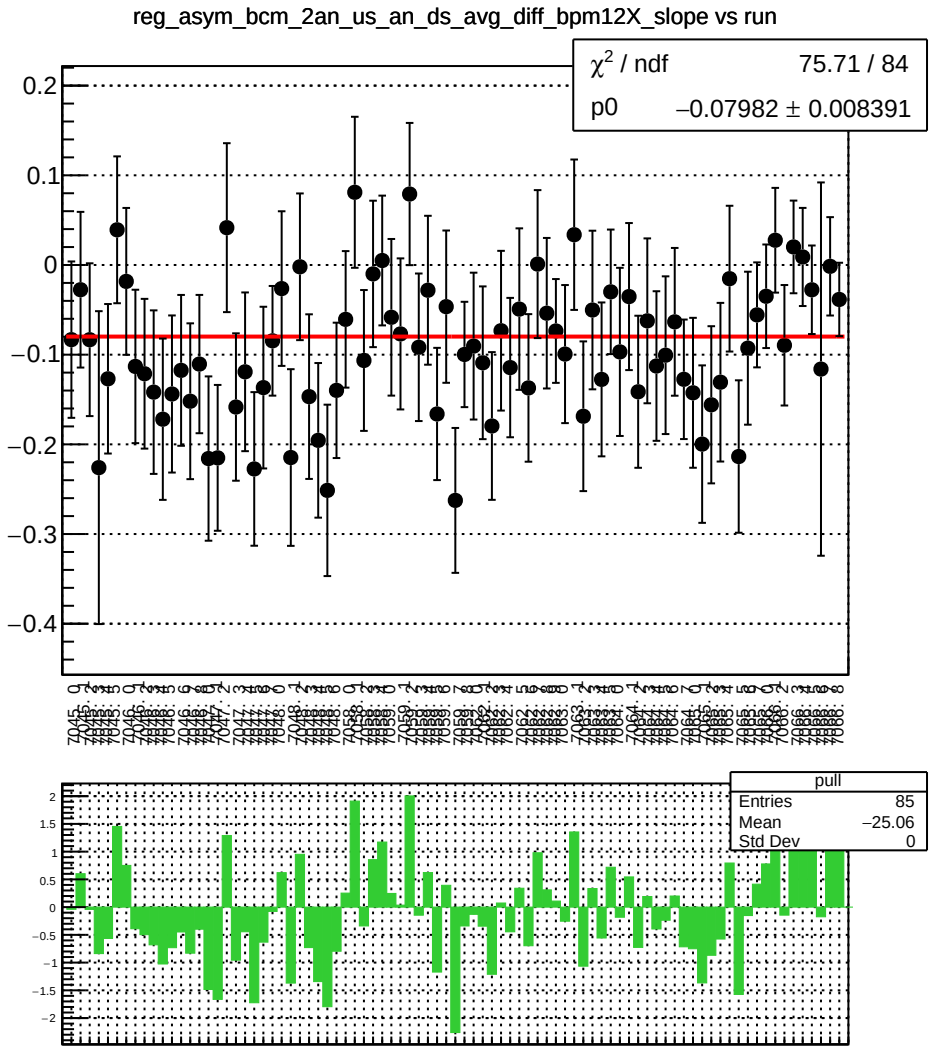

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 138.8 / 84
p0 2.479 ± 0.1703
pull
Entries 85
Mean 18.61
Std Dev 0

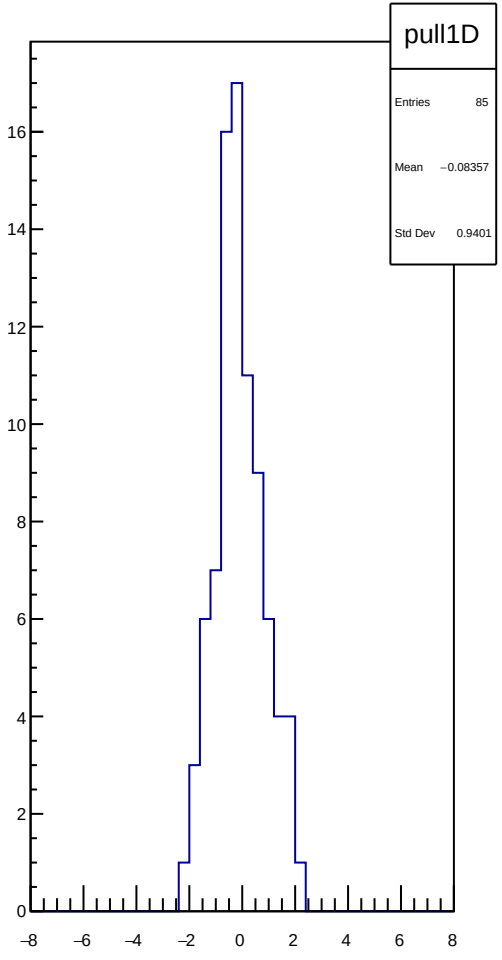

pull1D
Entries 85
Mean 0.1161
Std Dev 1.273

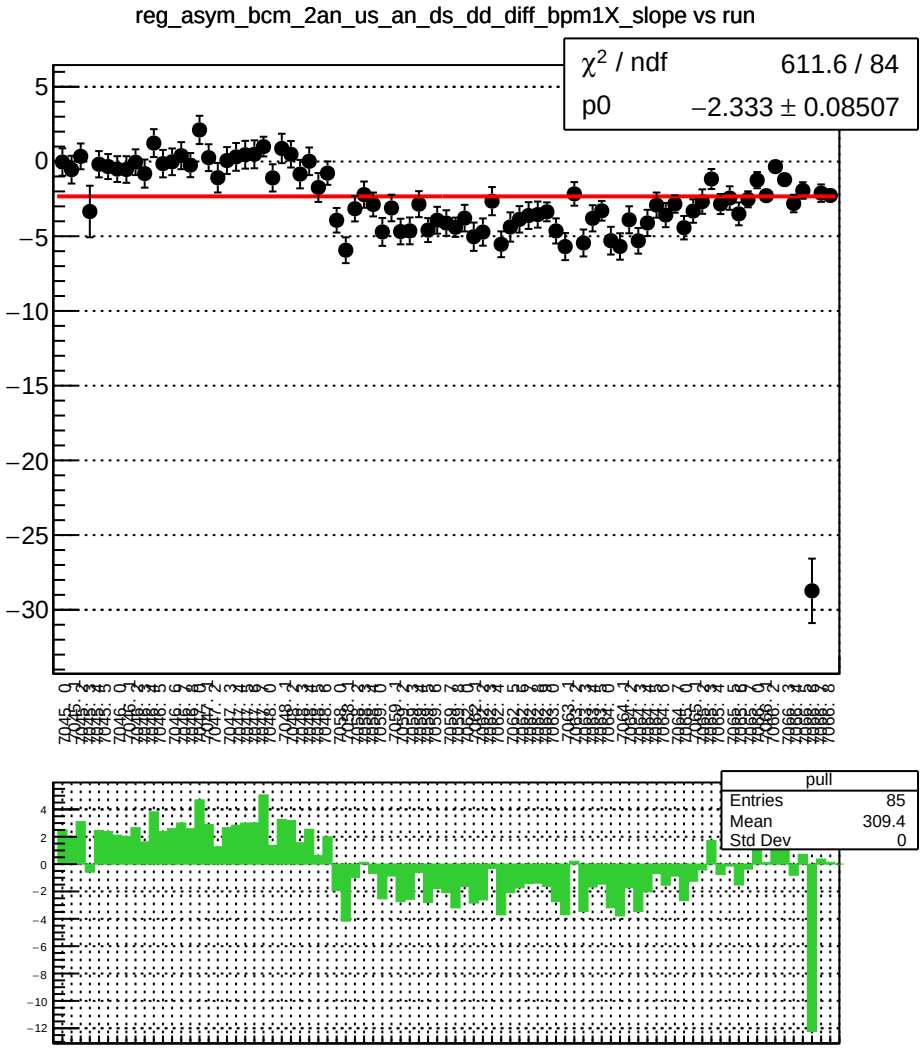

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 649.7 / 84
p0 6.016 ± 0.2392
pull
Entries 85
Mean 261.6
Std Dev 0
pull1D
Entries 85
Mean 0.01677
Std Dev 2.431

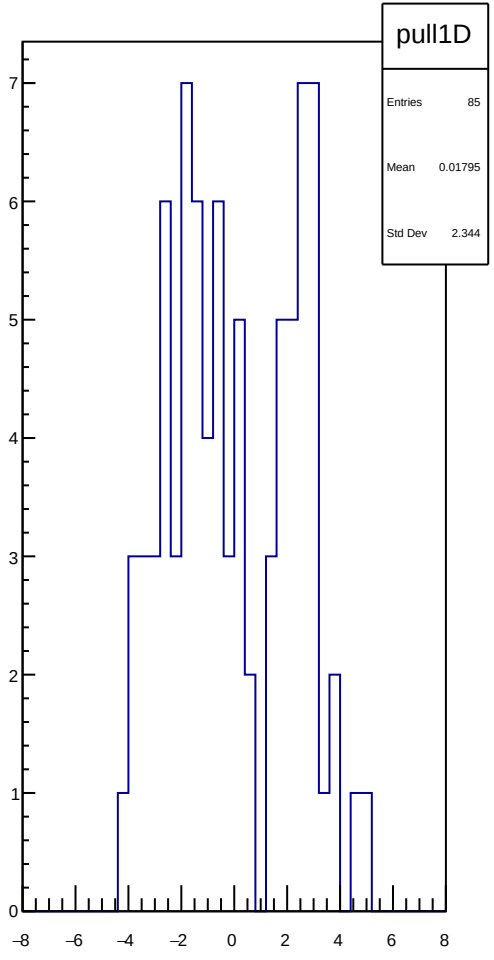

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 173.8 / 84
p0 −3.469 ± 0.1809
pull
Entries 85
Mean 62.76
Std Dev 0

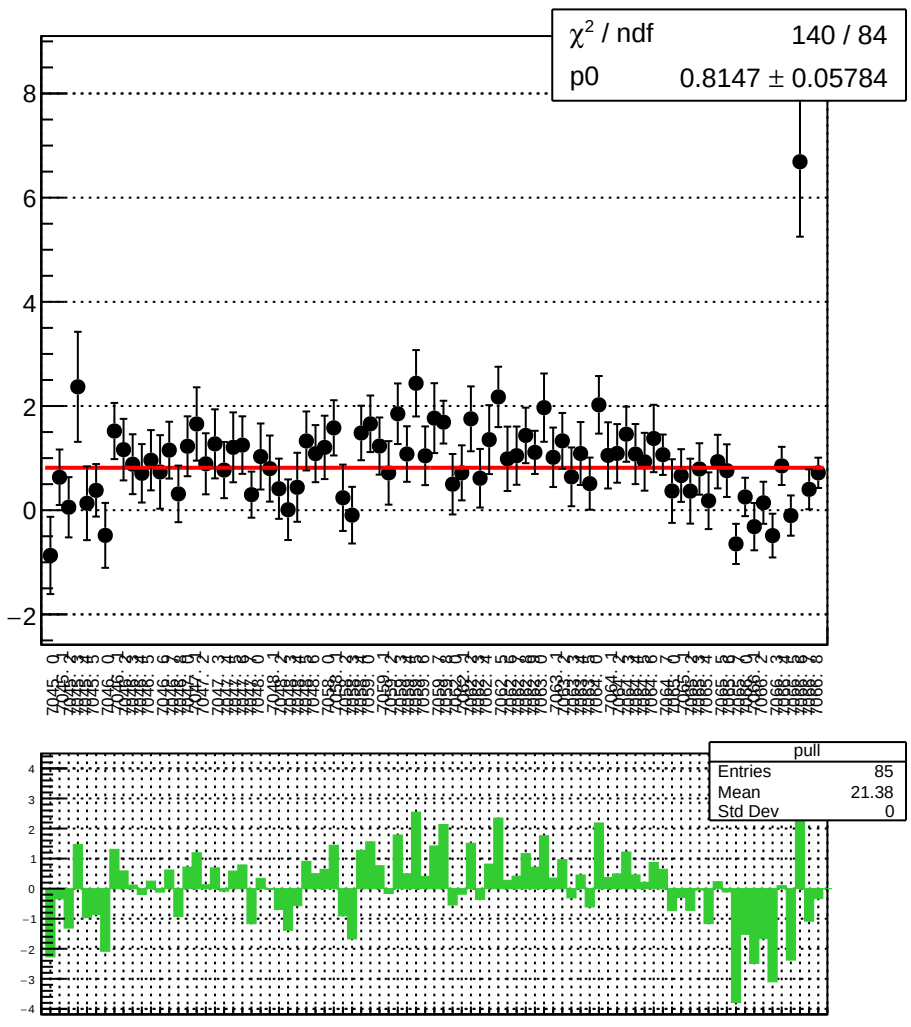

pull1D
Entries 85
Mean −0.1258
Std Dev 1.424

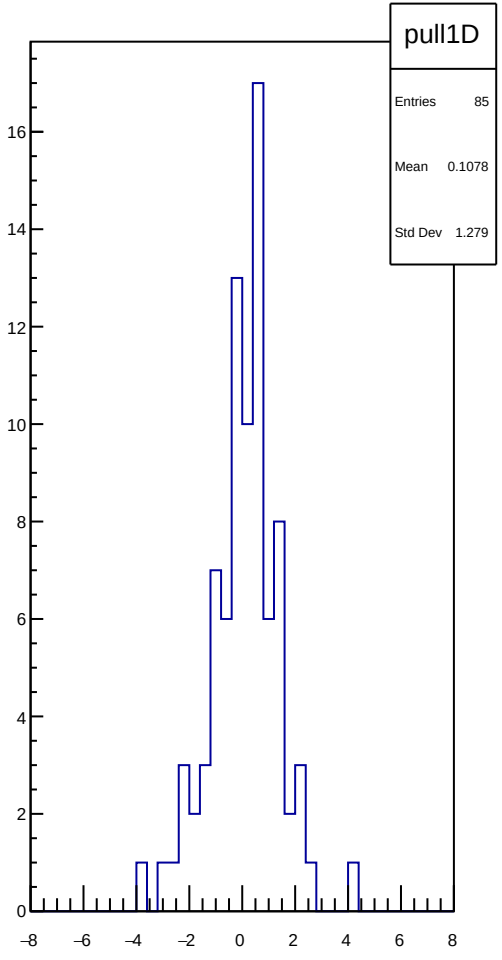

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 75.71 / 84
p0 −0.07982 ± 0.008391
pull
Entries 85
Mean −25.06
Std Dev 0

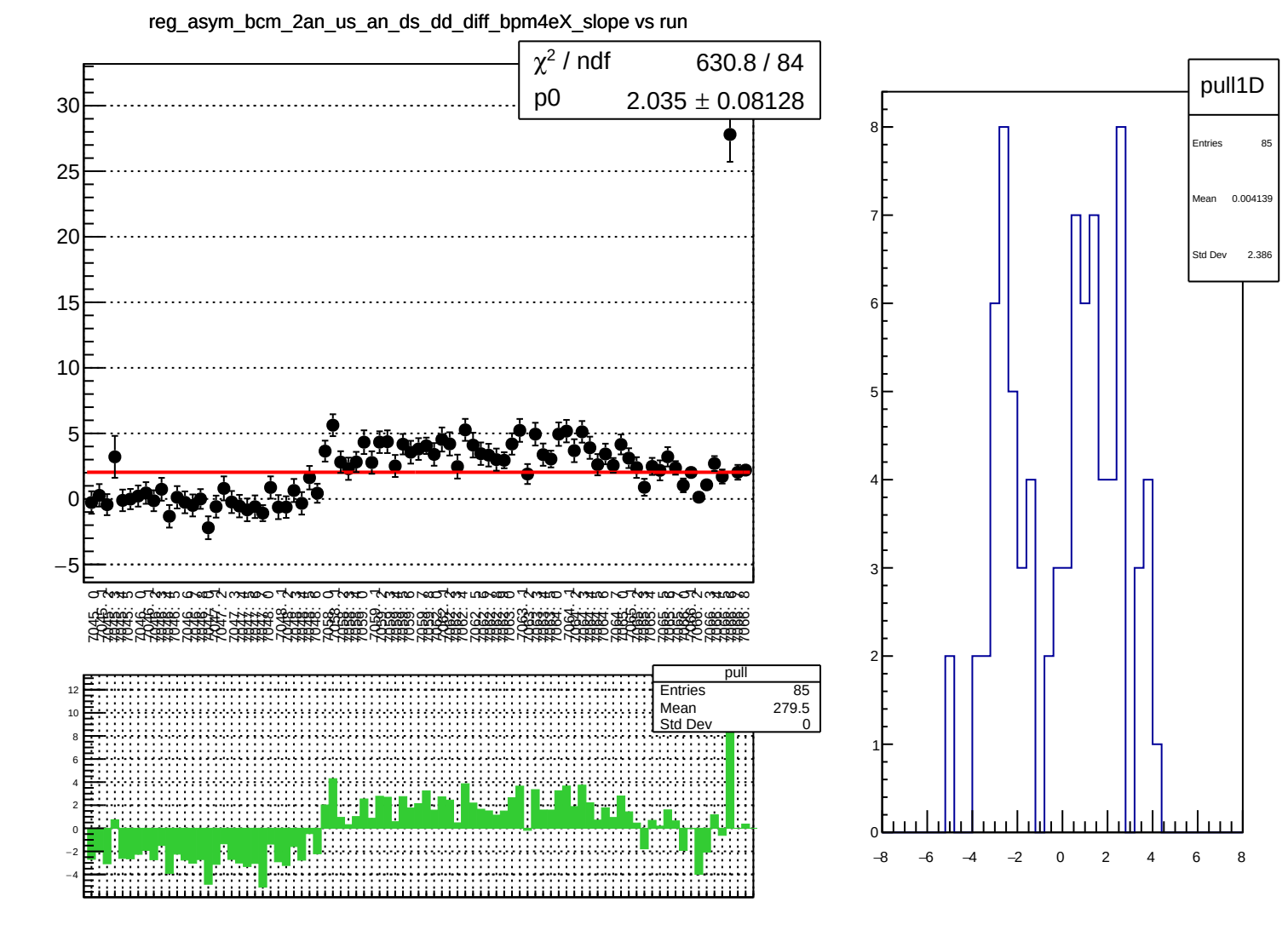

pull1D
Entries 85
Mean −0.08357
Std Dev 0.9401

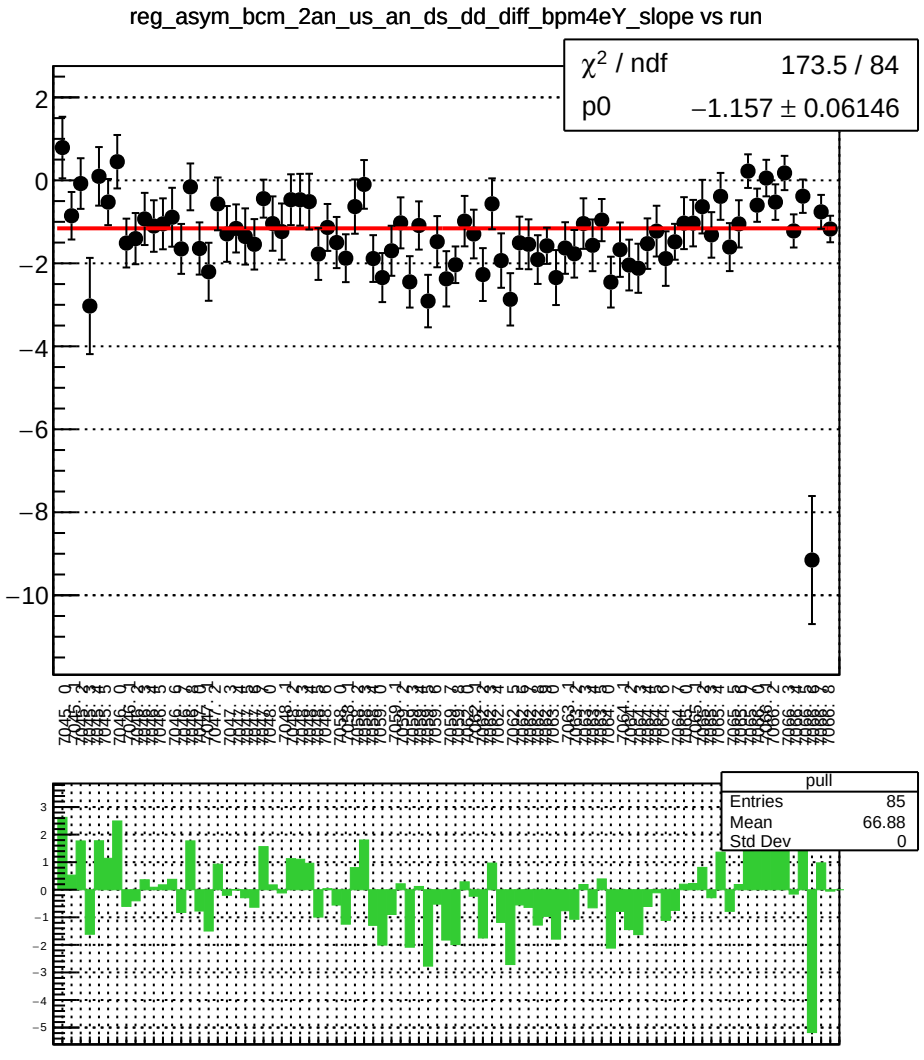

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 611.6 / 84
p0 −2.333 ± 0.08507
pull
Entries 85
Mean 309.4
Std Dev 0

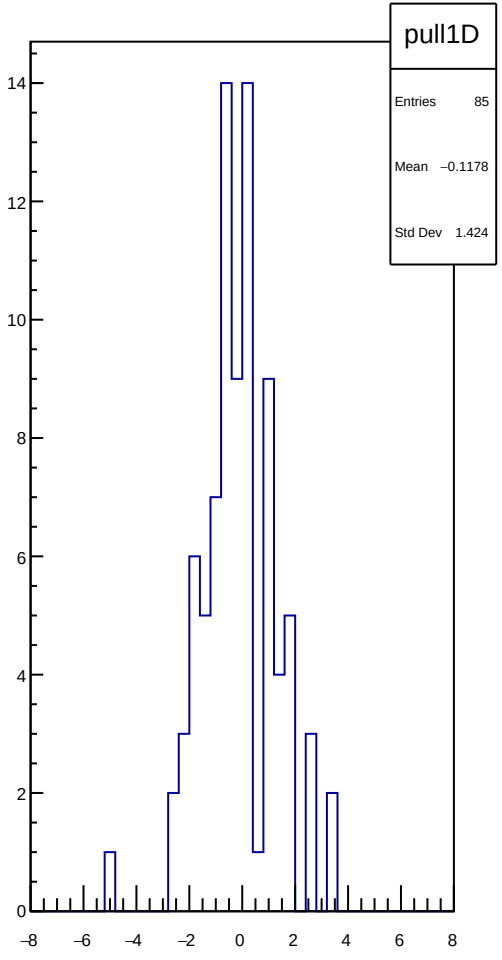

pull1D
Entries 85
Mean 0.01795
Std Dev 2.344

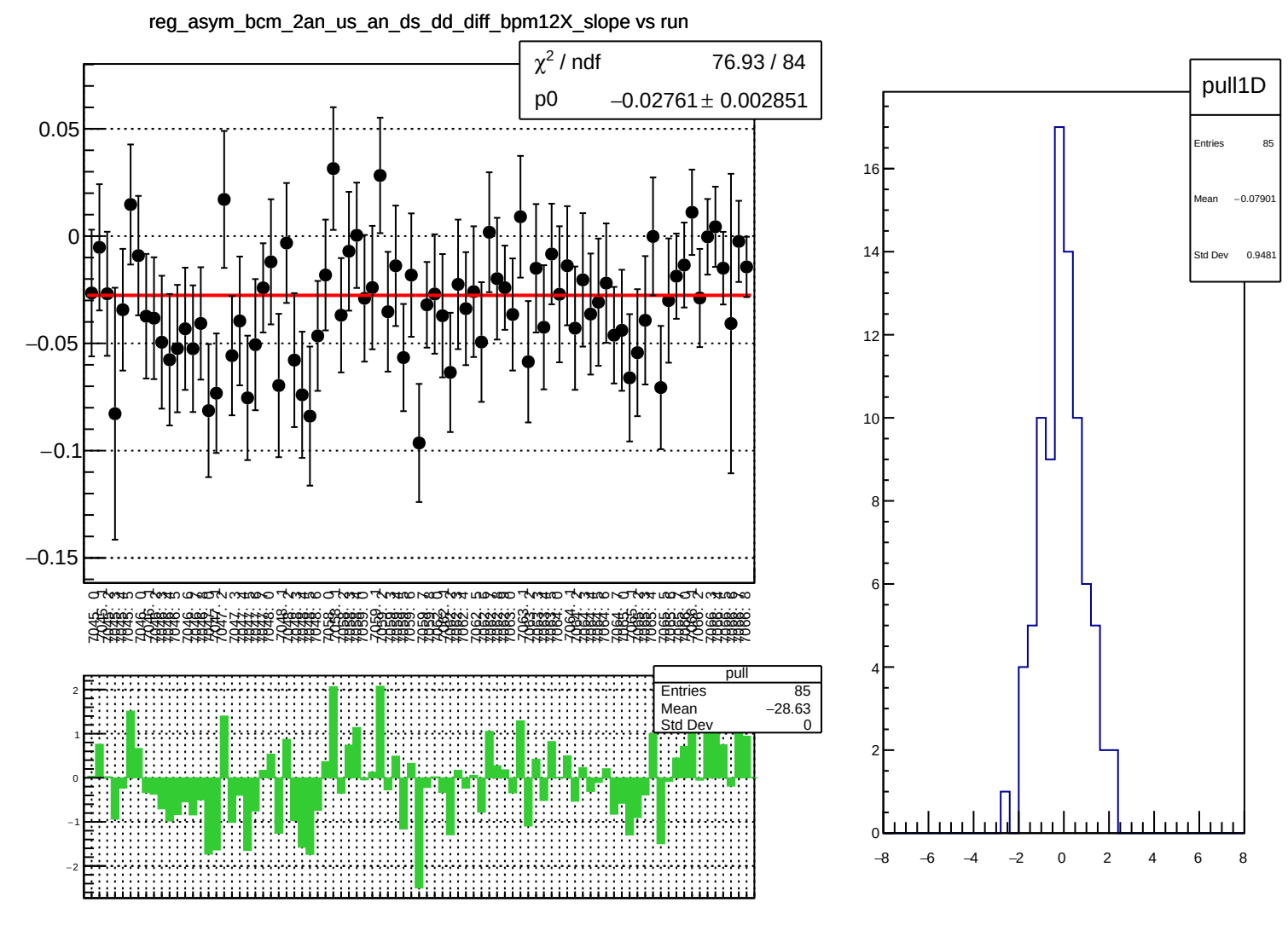

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 140 / 84
p0 0.8147 ± 0.05784
pull
Entries 85
Mean 21.38
Std Dev 0

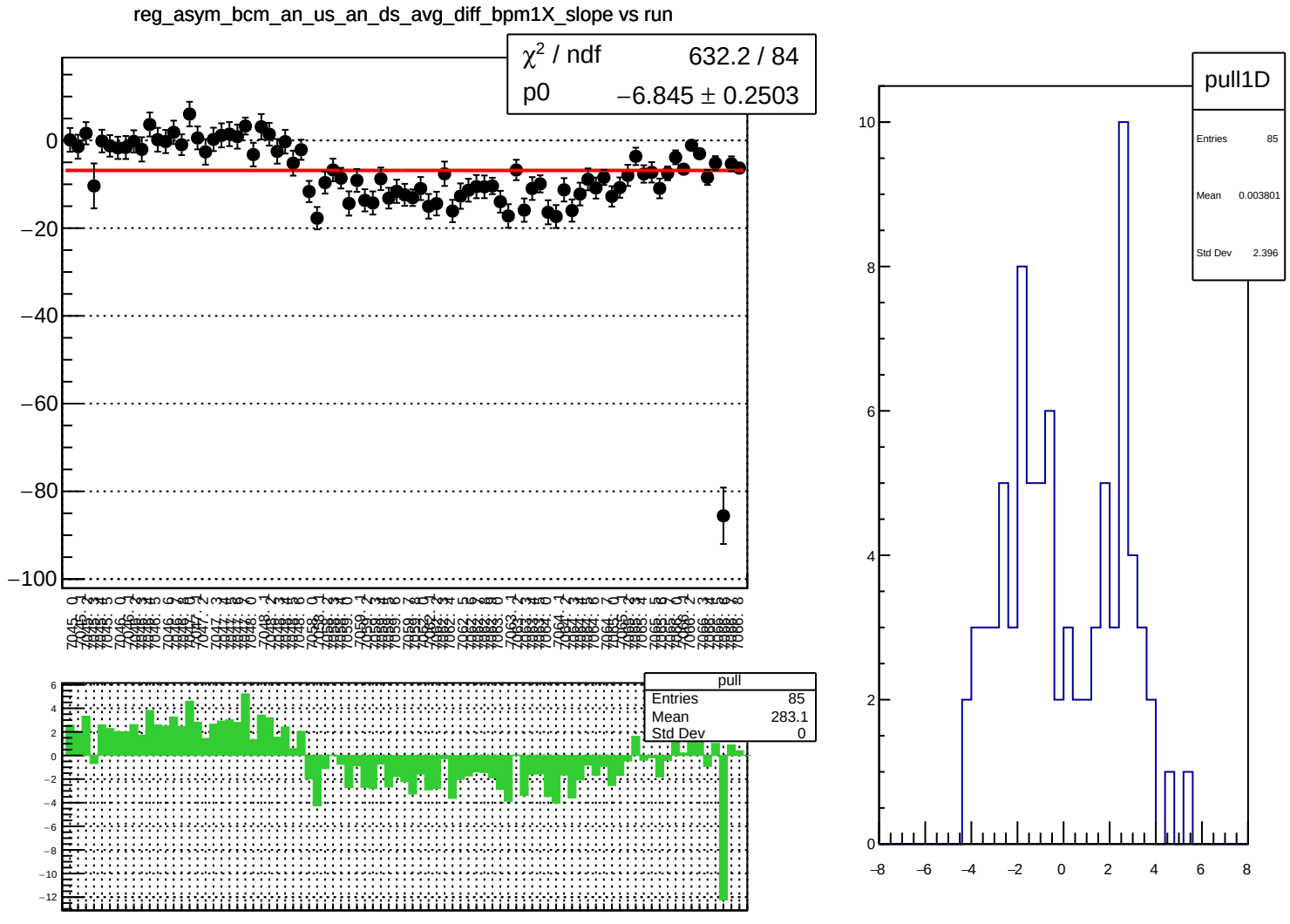

pull1D
Entries 85
Mean 0.1078
Std Dev 1.279

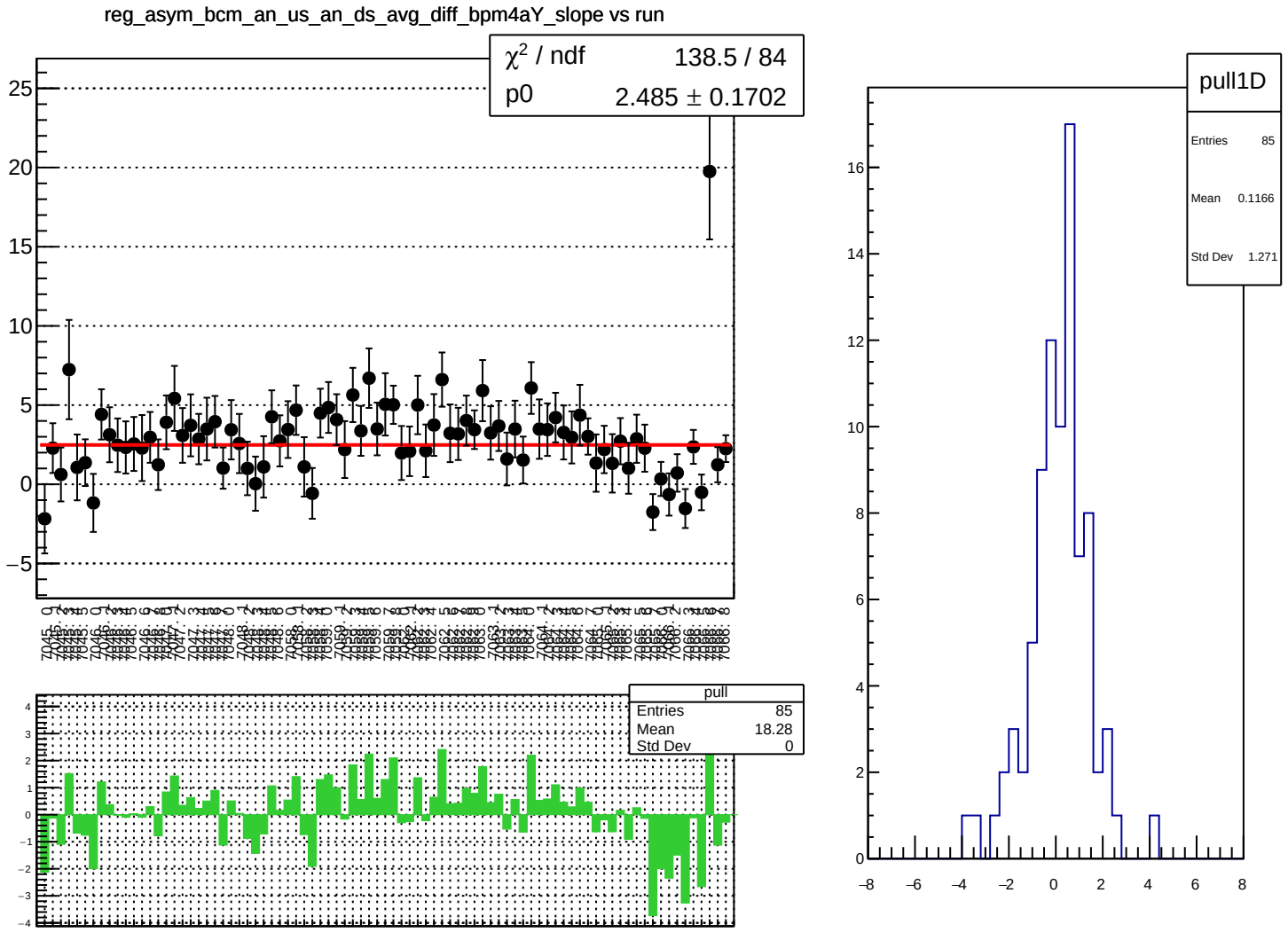

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 630.8 / 84
p0 2.035 ± 0.08128
pull
Entries 85
Mean 279.5
Std Dev 0
pull1D
Entries 85
Mean 0.004139
Std Dev 2.386

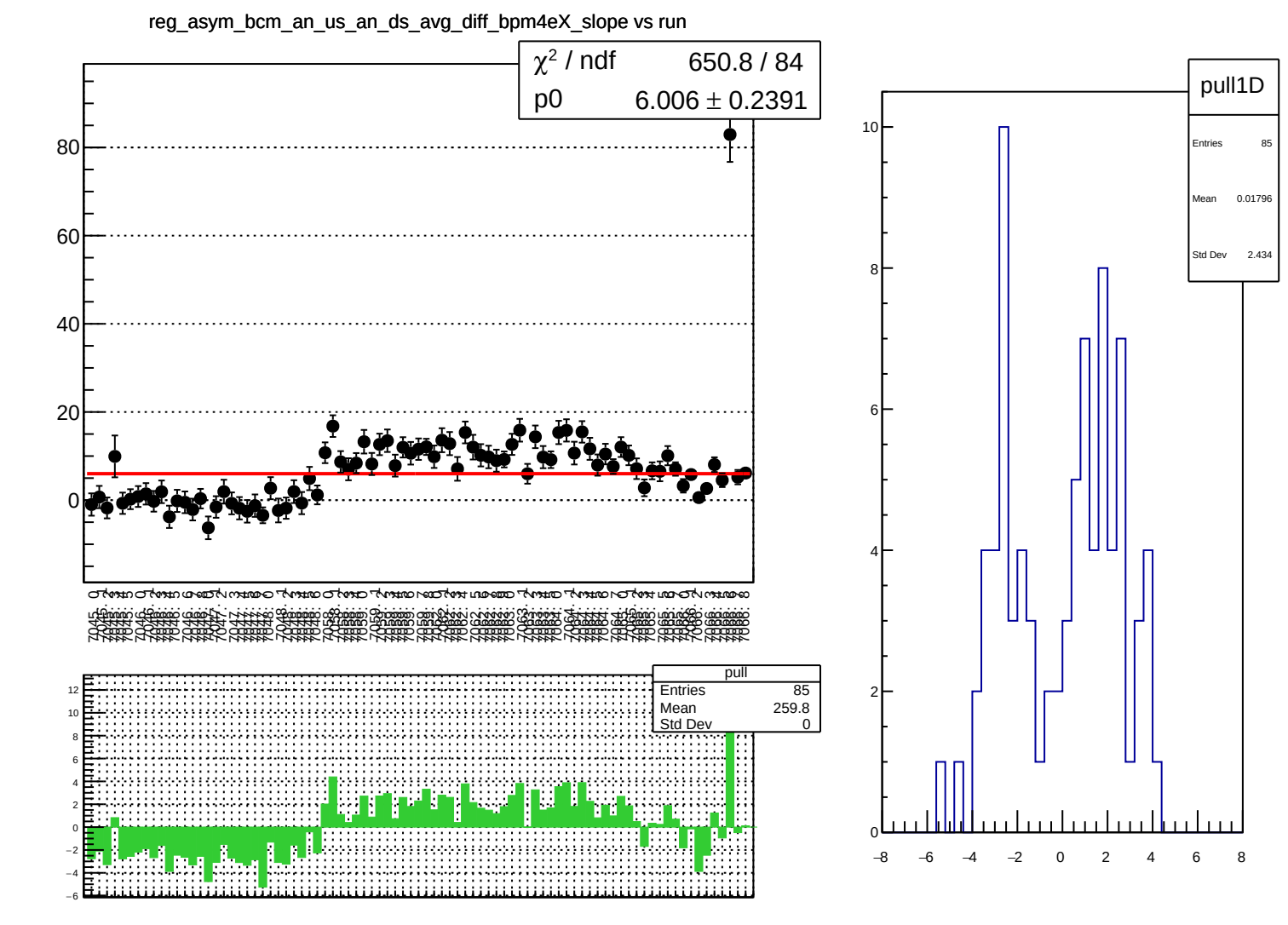

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 173.5 / 84
p0 −1.157 ± 0.06146
pull
Entries 85
Mean 66.88
Std Dev 0

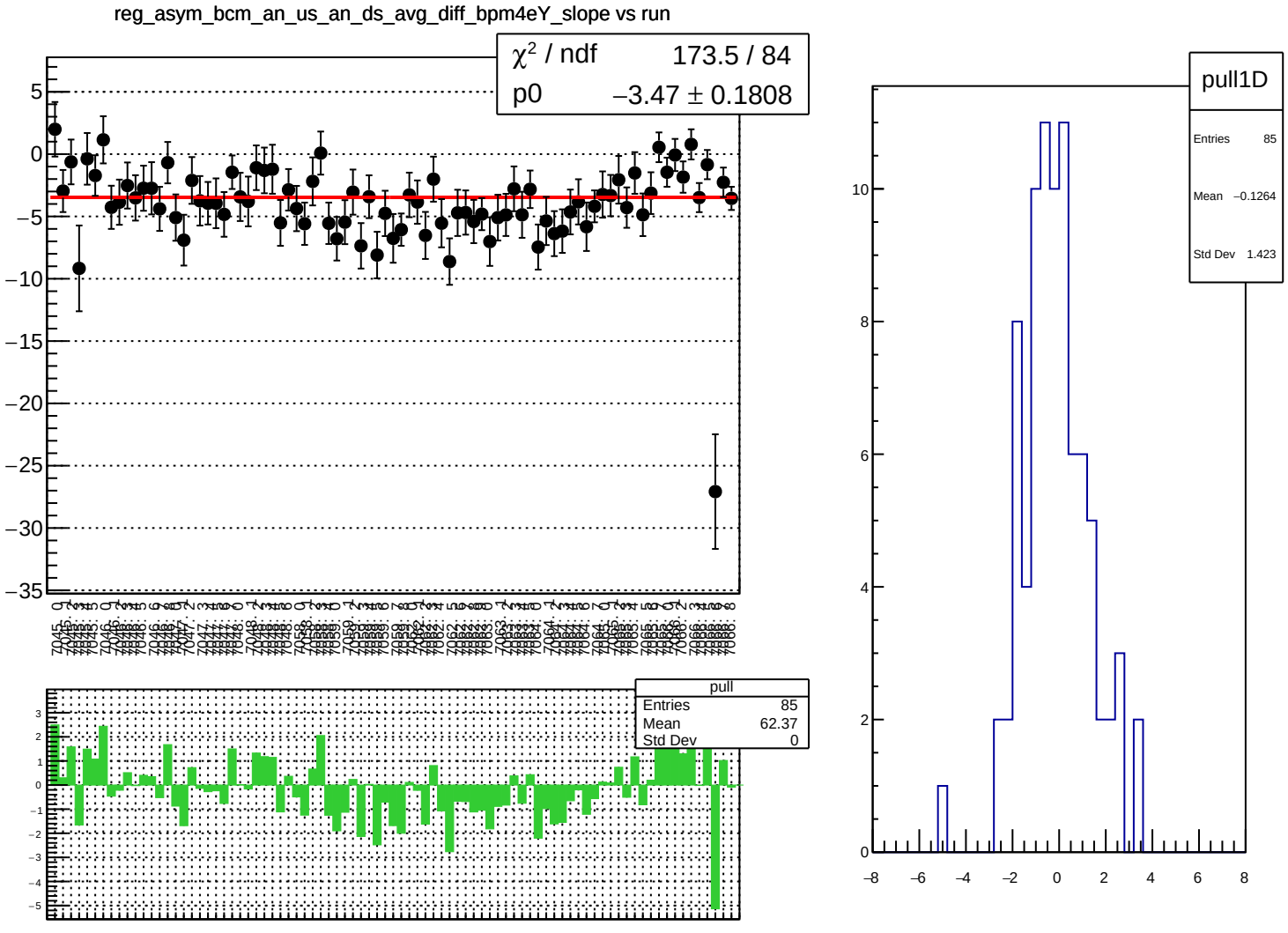

pull1D
Entries 85
Mean −0.1178
Std Dev 1.424

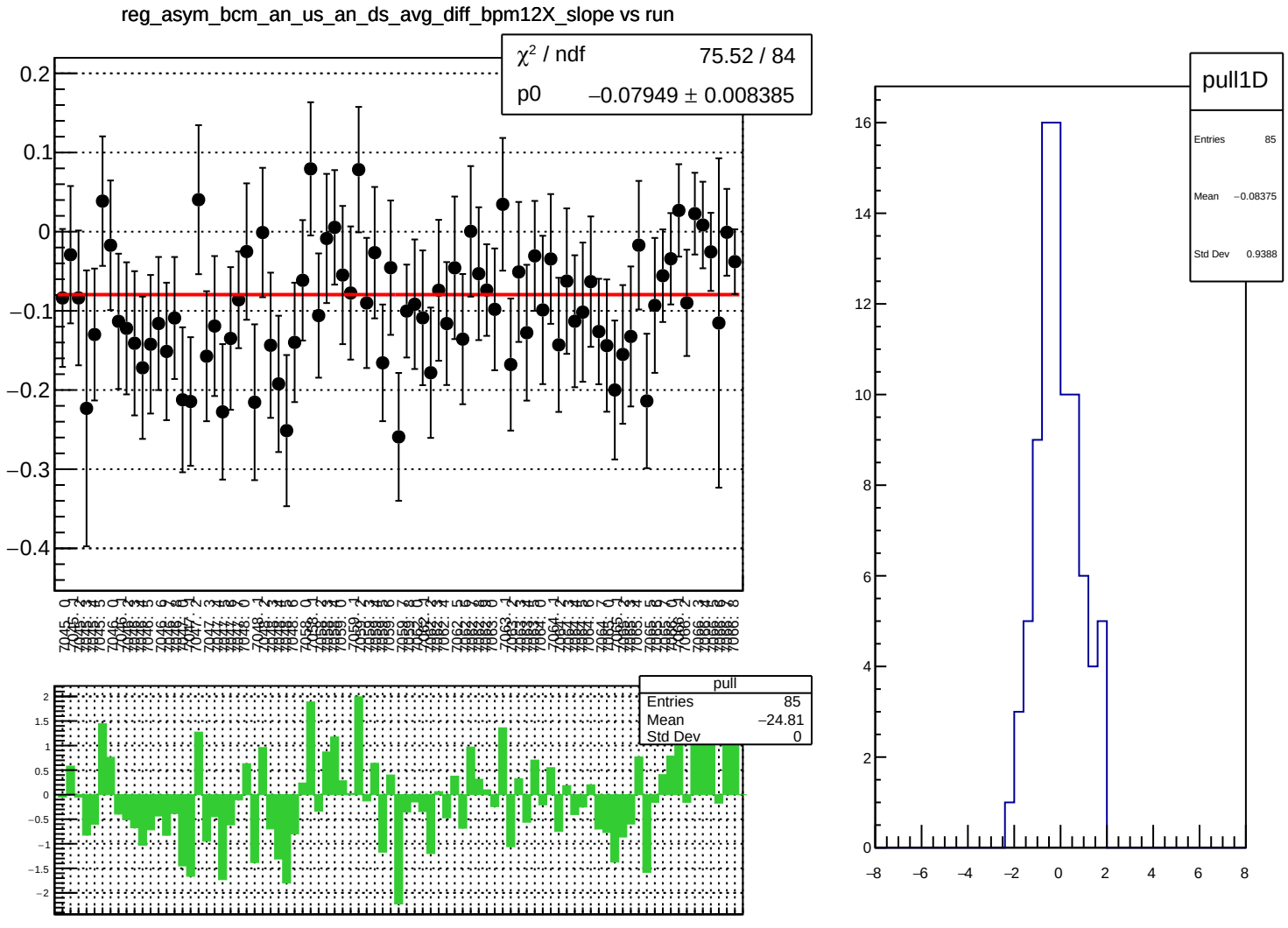

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 76.93 / 84
p0 −0.02761 ± 0.002851
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −28.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.07901
Std Dev 0.9481
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

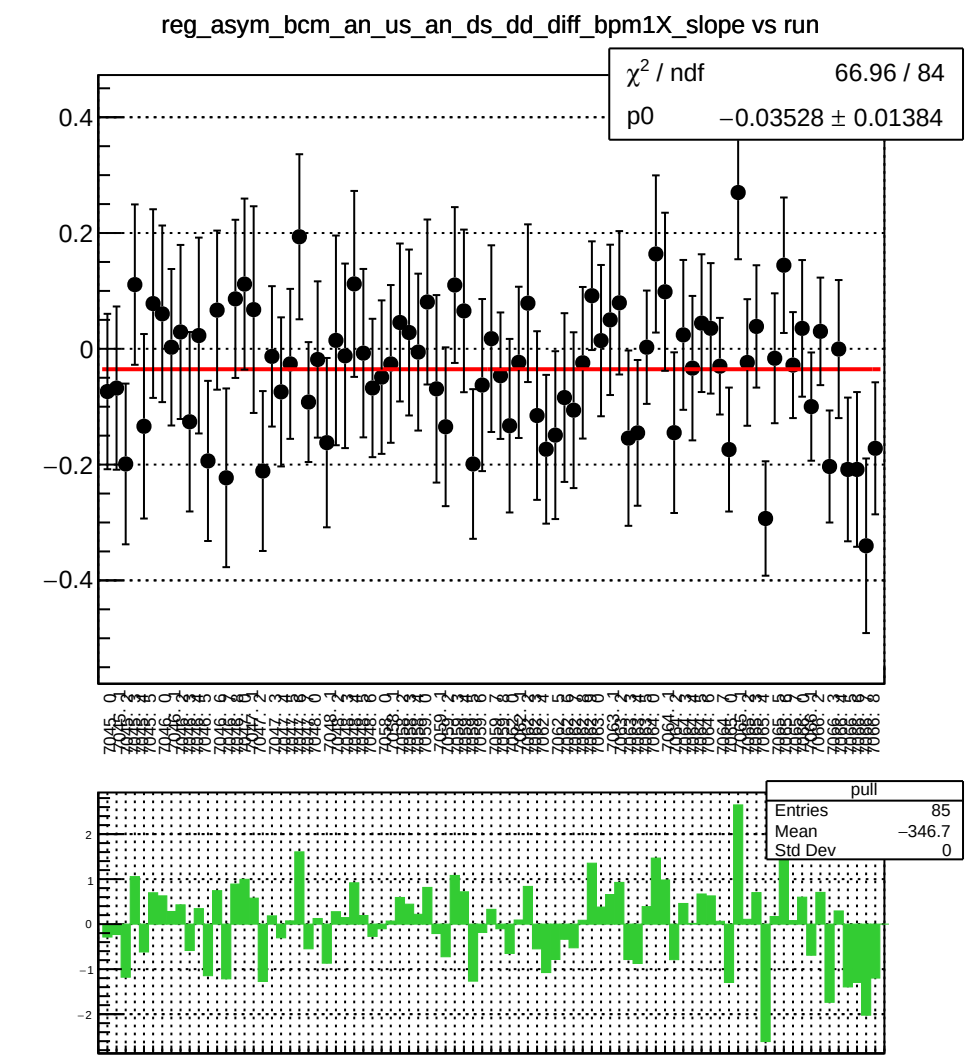

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 632.2 / 84
p0 −6.845 ± 0.2503
pull
Entries 85
Mean 283.1
Std Dev 0
pull1D
Entries 85
Mean 0.003801
Std Dev 2.396

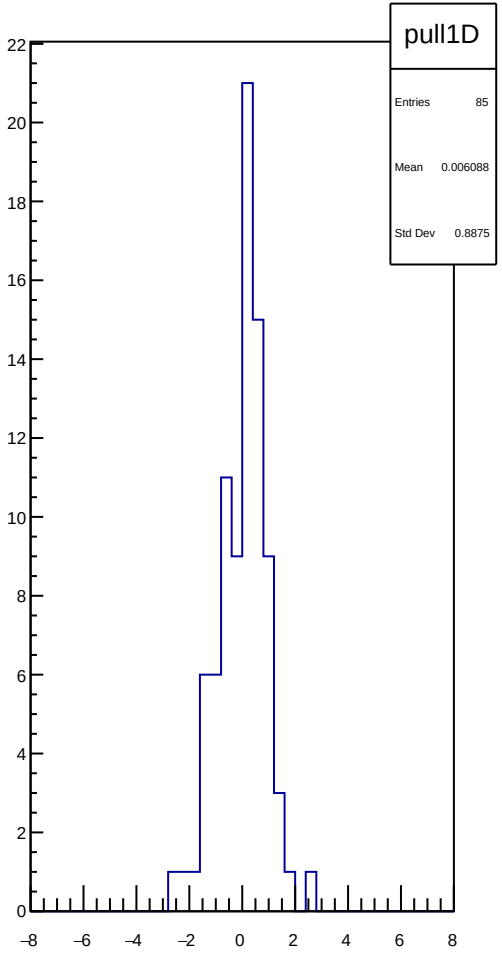

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 138.5 / 84
p0 2.485 ± 0.1702
pull
Entries 85
Mean 18.28
Std Dev 0
pull1D
Entries 85
Mean 0.1166
Std Dev 1.271

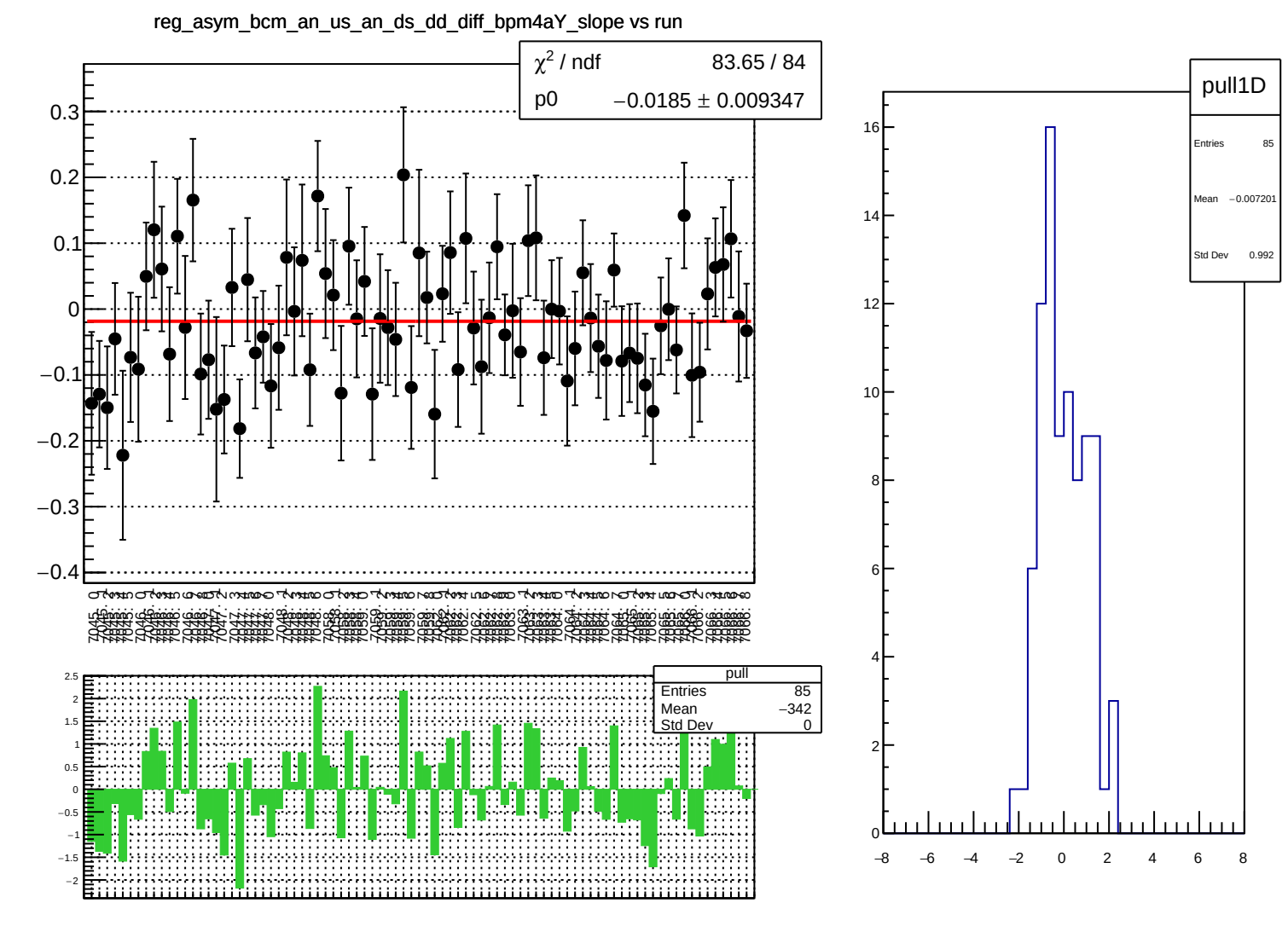

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 650.8 / 84
p0 6.006 ± 0.2391
pull
Entries 85
Mean 259.8
Std Dev 0
pull1D
Entries 85
Mean 0.01796
Std Dev 2.434

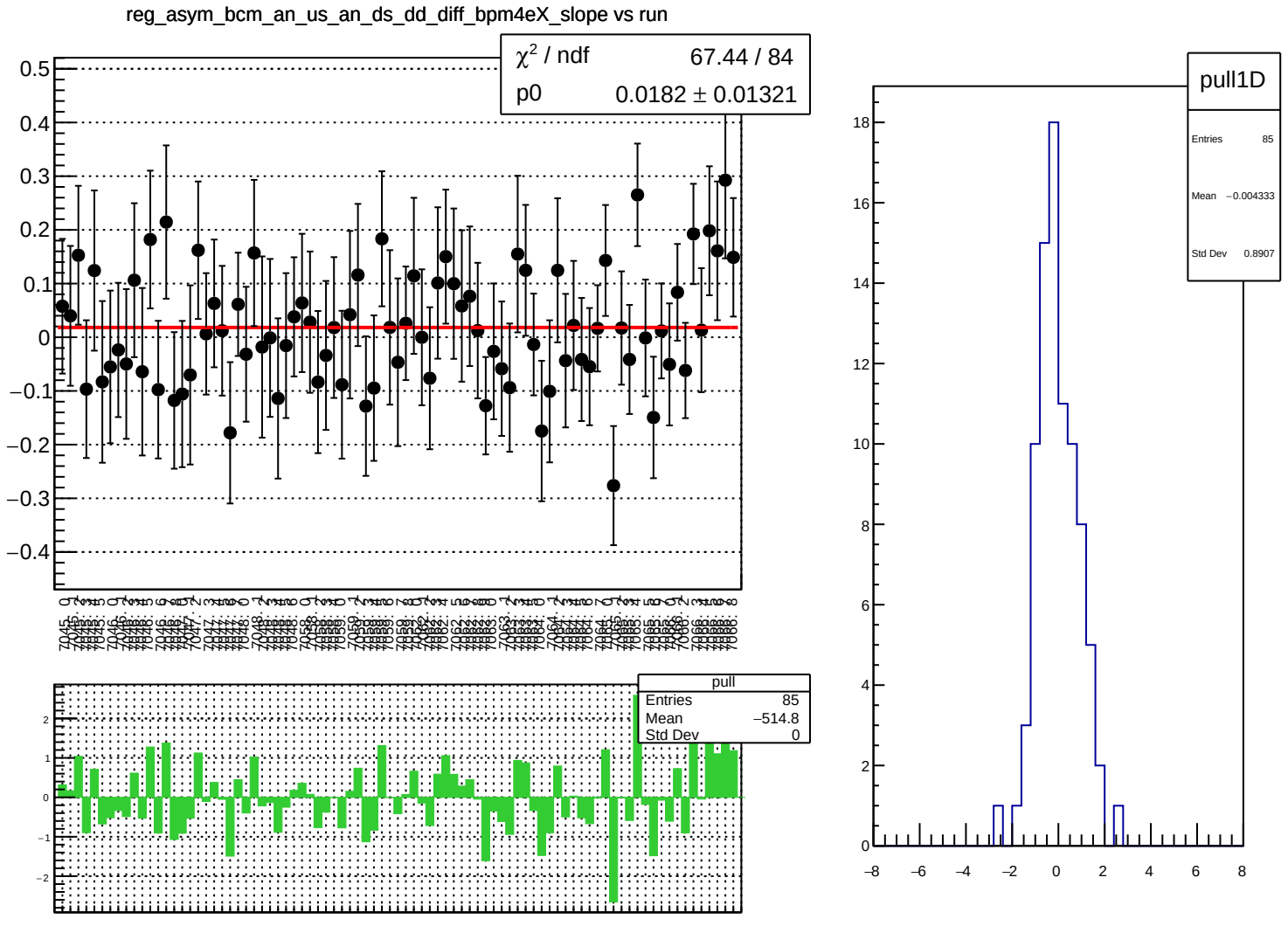

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 173.5 / 84
p0 −3.47 ± 0.1808
pull
Entries 85
Mean 62.37
Std Dev 0
pull1D
Entries 85
Mean −0.1264
Std Dev 1.423

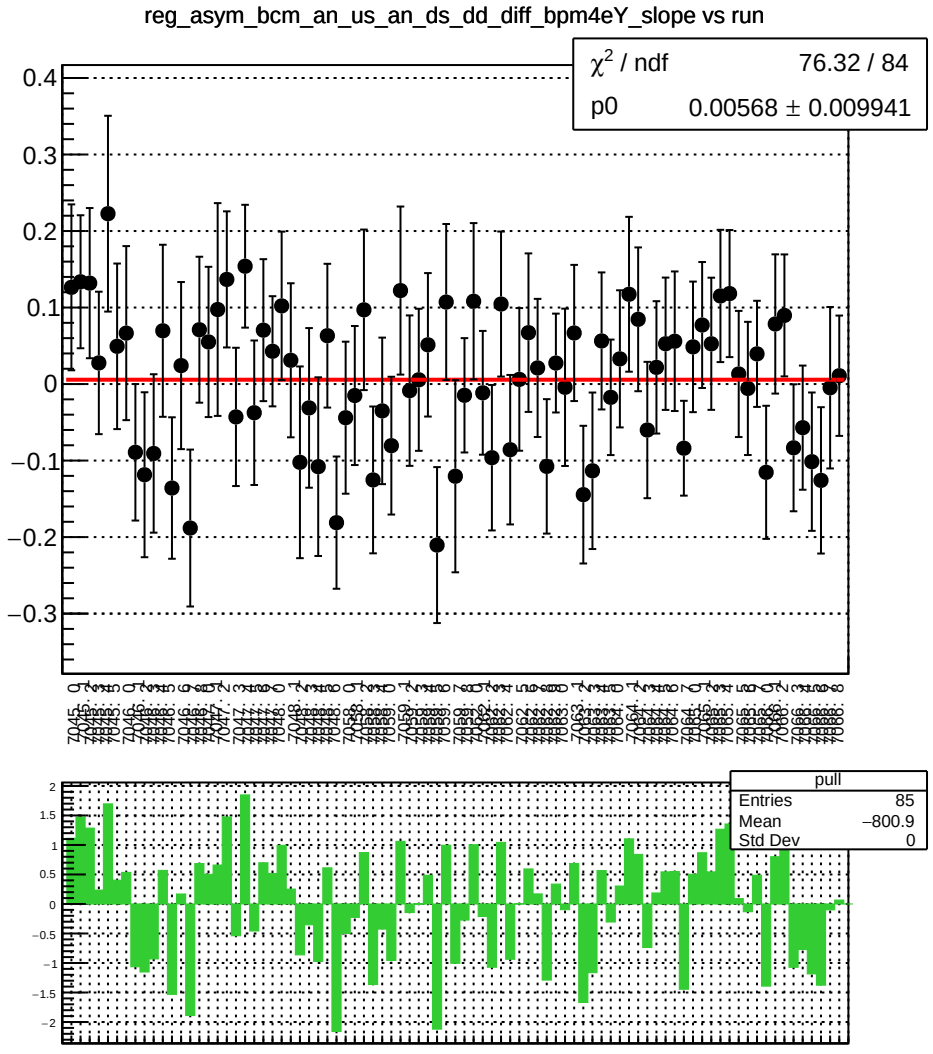

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 75.52 / 84
p0 −0.07949 ± 0.008385
pull
Entries 85
Mean −24.81
Std Dev 0
pull1D
Entries 85
Mean −0.08375
Std Dev 0.9388

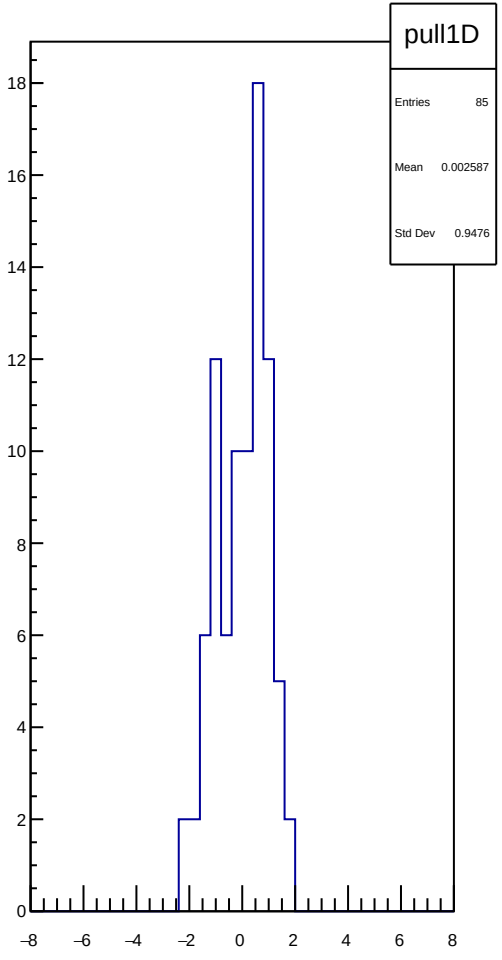

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 66.96 / 84
p0 −0.03528 ± 0.01384
pull
Entries 85
Mean −346.7
Std Dev 0

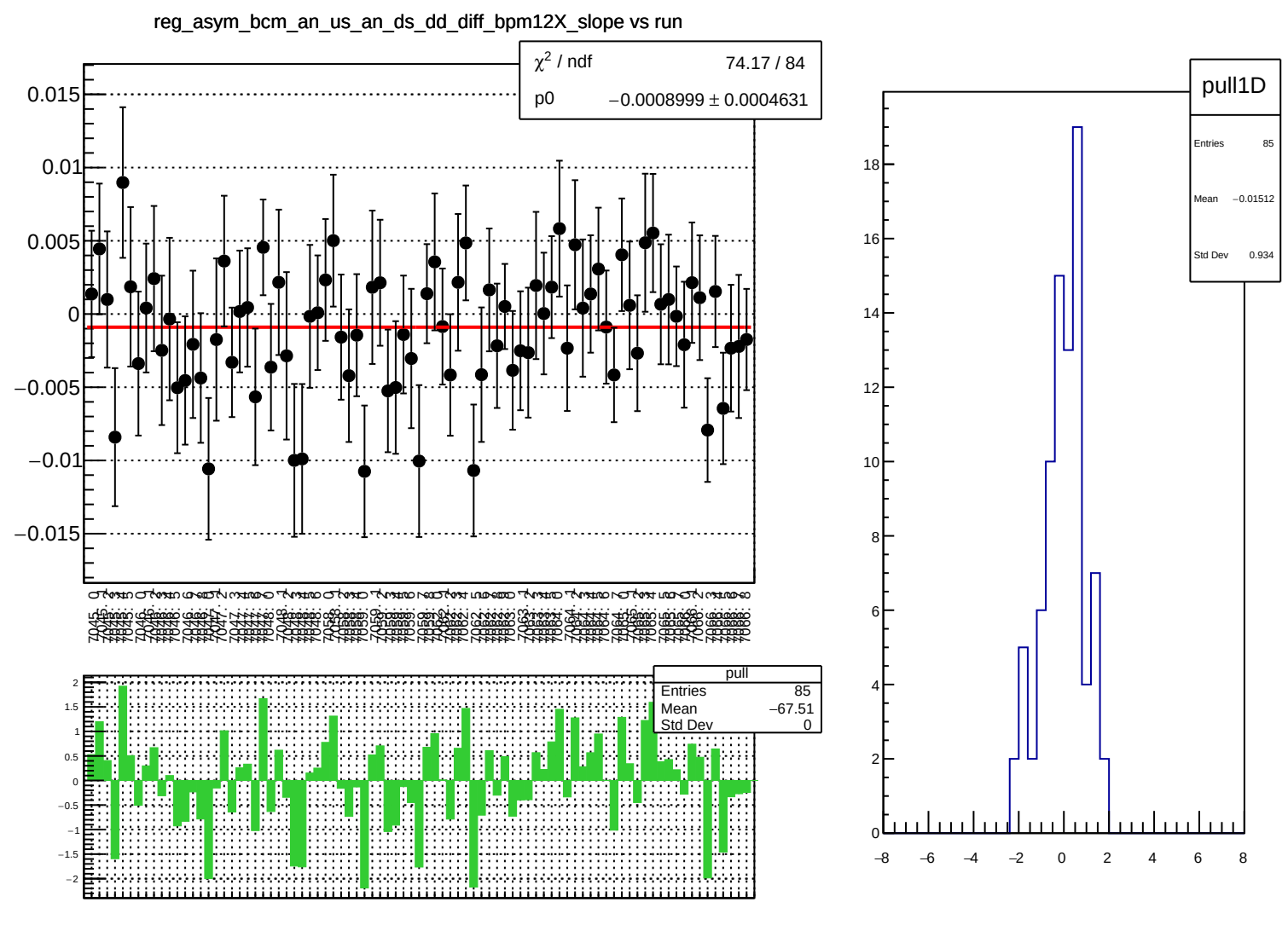

pull1D
Entries 85
Mean 0.006088
Std Dev 0.8875

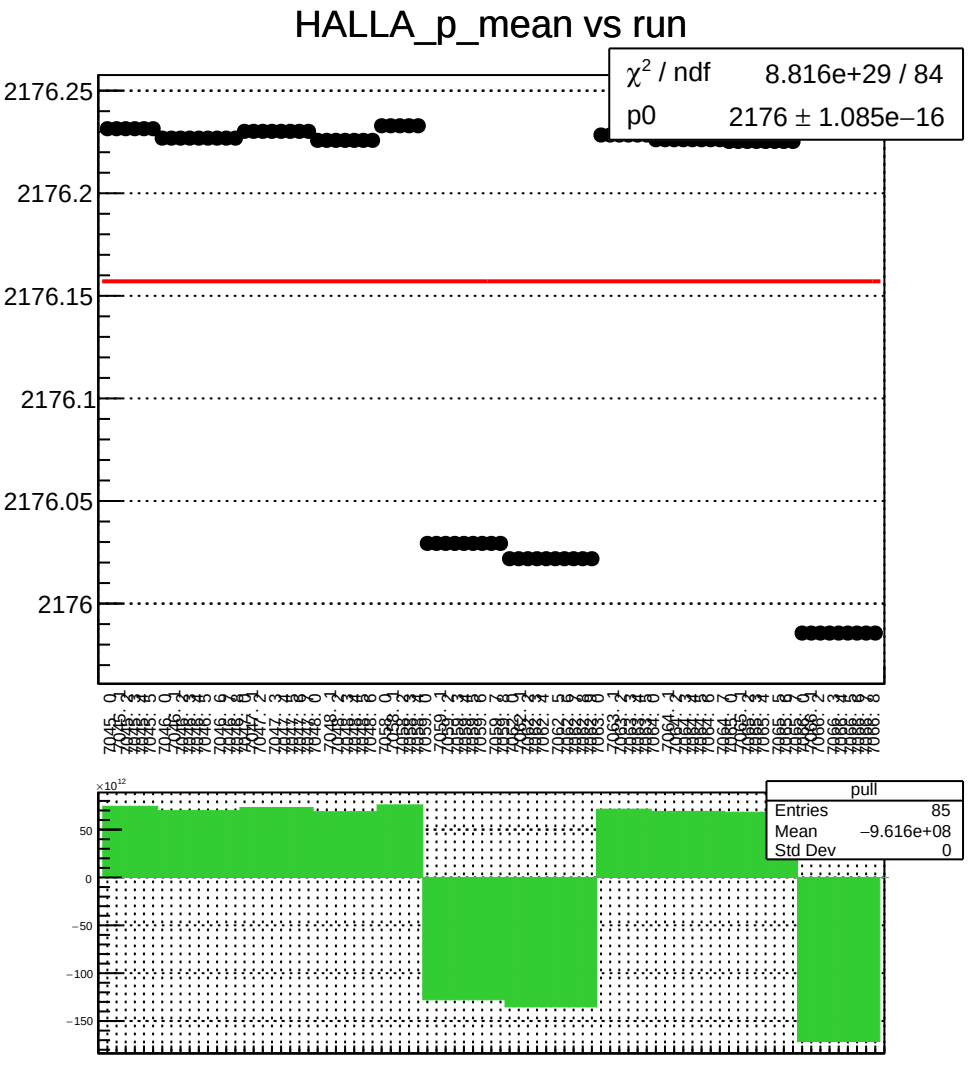

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.65 / 84
p0 −0.0185 ± 0.009347
pull
Entries 85
Mean −342
Std Dev 0
pull1D
Entries 85
Mean −0.007201
Std Dev 0.992

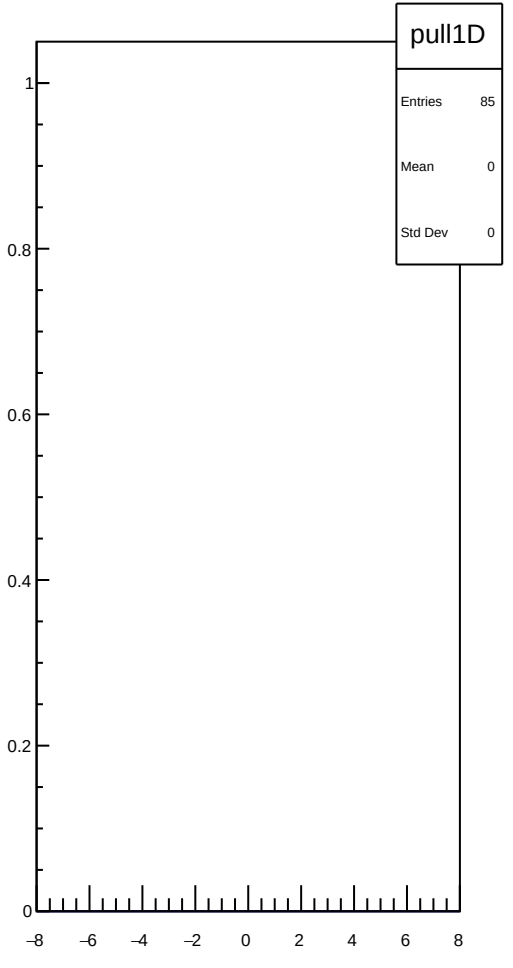

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.44 / 84
p0 0.0182 ± 0.01321
pull
Entries 85
Mean −514.8
Std Dev 0
pull1D
Entries 85
Mean −0.004333
Std Dev 0.8907

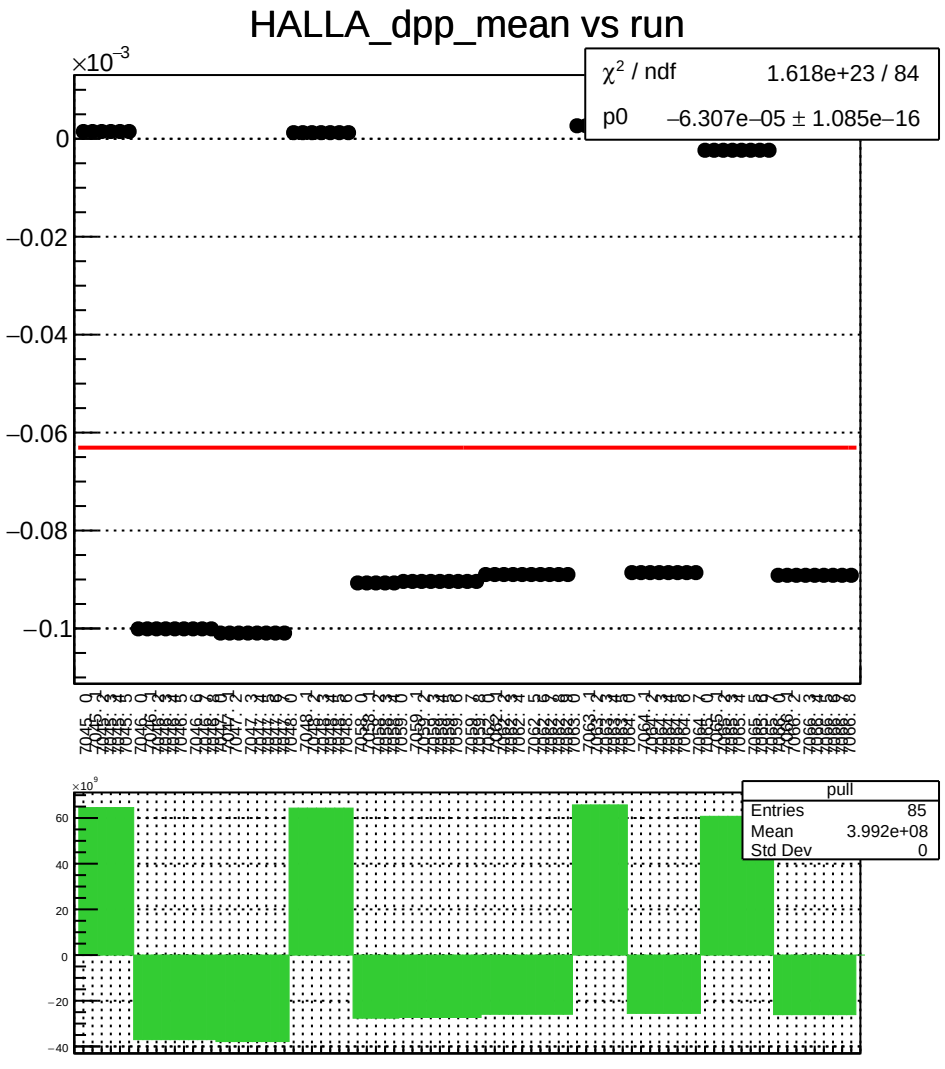

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.32 / 84
p0 0.00568 ± 0.009941
pull
Entries 85
Mean −800.9
Std Dev 0

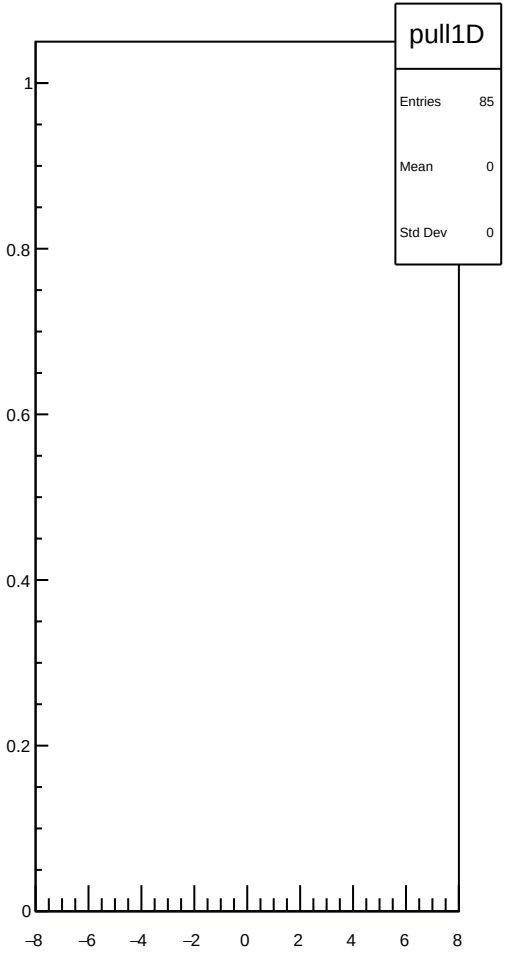

pull1D
Entries 85
Mean 0.002587
Std Dev 0.9476

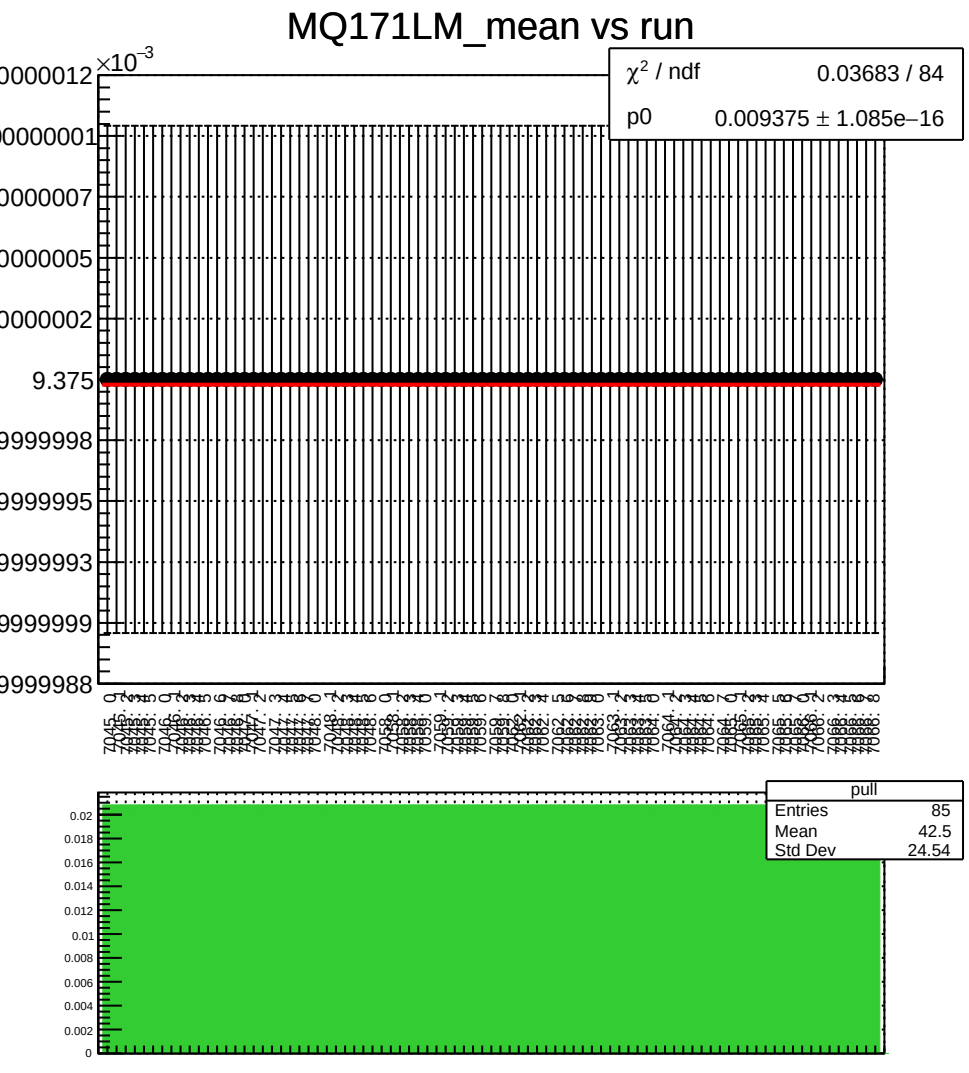

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 74.17 / 84
p0 −0.0008999 ± 0.0004631
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean −67.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.01512
Std Dev 0.934
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

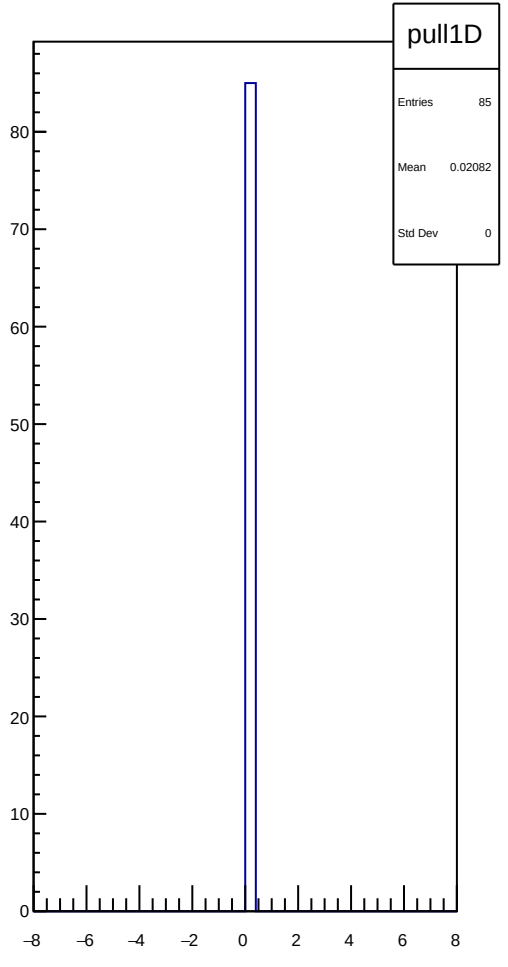

HALLA_p_mean vs run
χ² / ndf 8.816e+29 / 84
p0 2176 ± 1.085e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 85
Mean −9.616e+08
Std Dev 0
×10¹²
50
0
−50
−100
−150

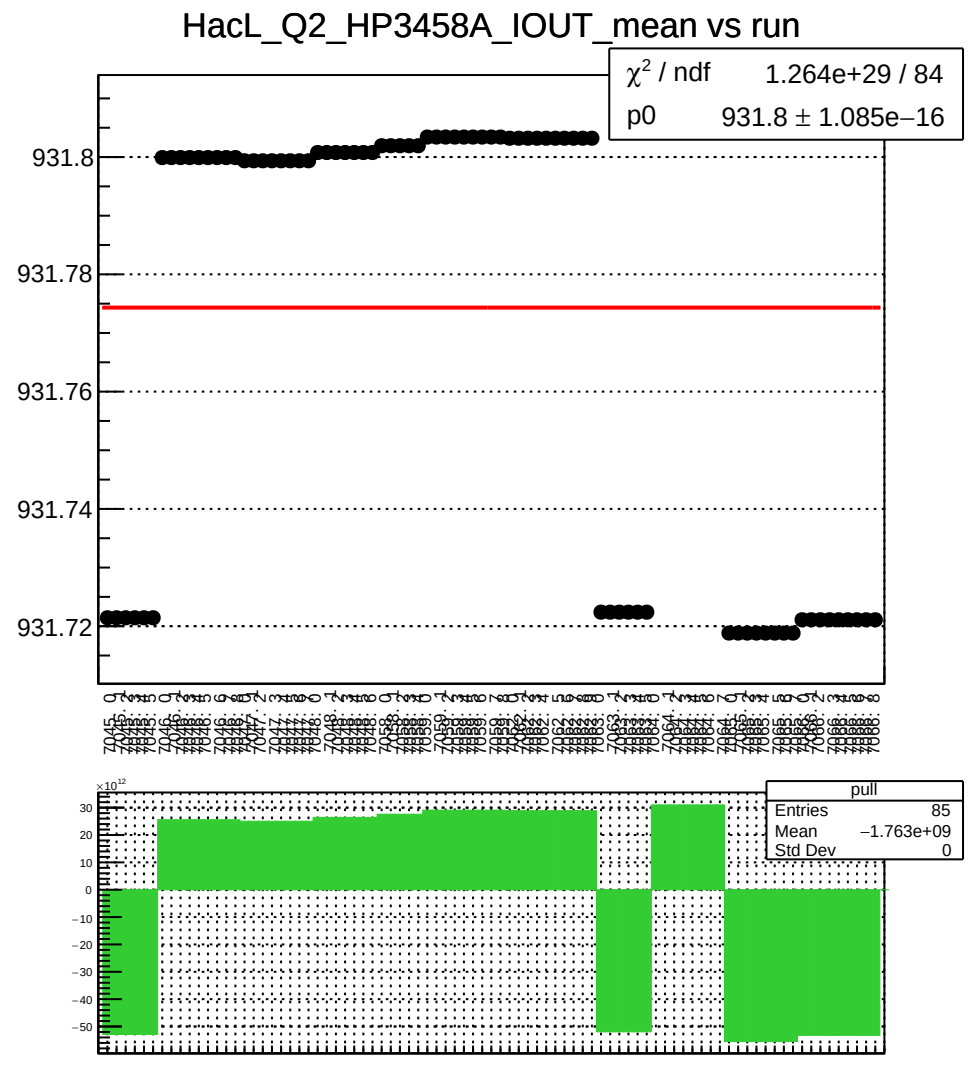

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

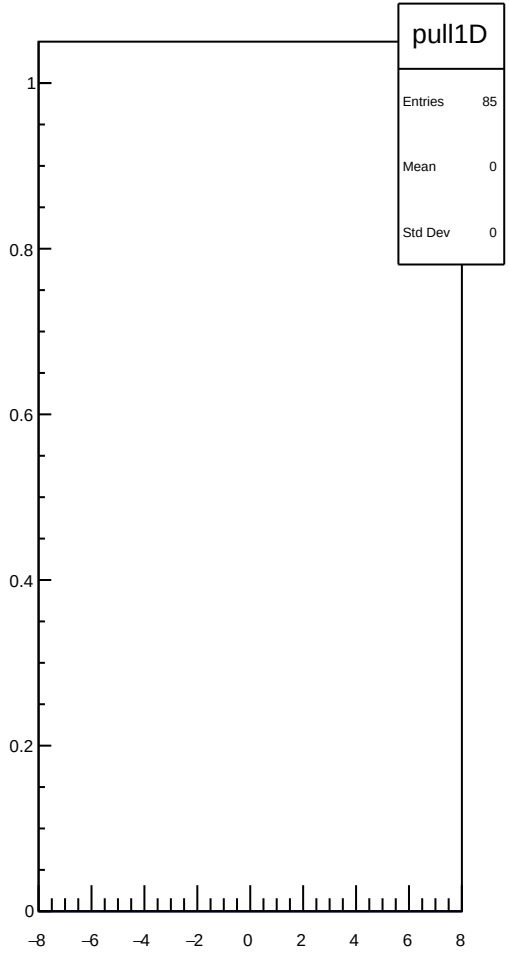

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.618e+23 / 84
p0 −6.307e−05 ± 1.085e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 85
Mean 3.992e+08
Std Dev 0
60
40
20
0
−20
−40

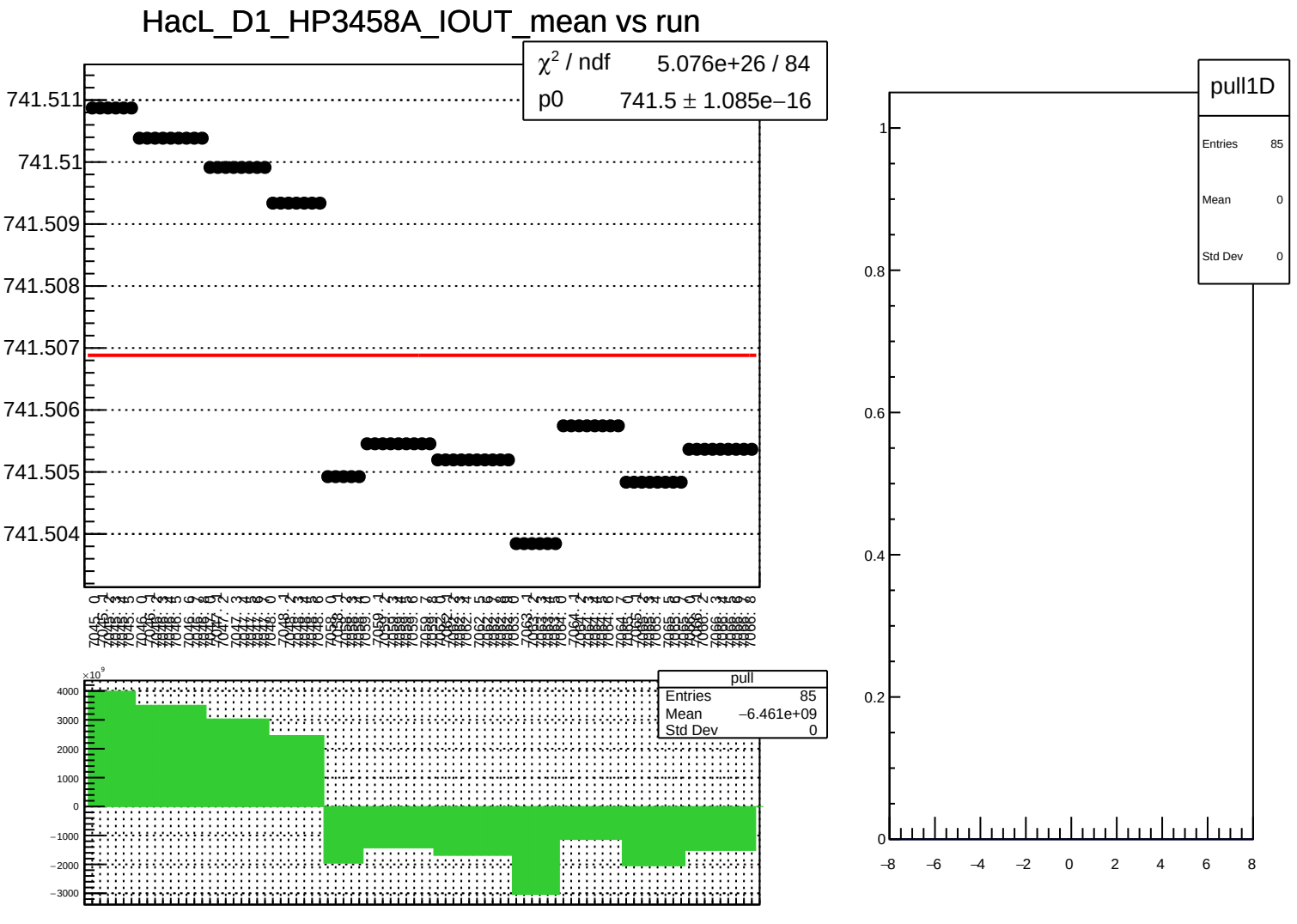

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

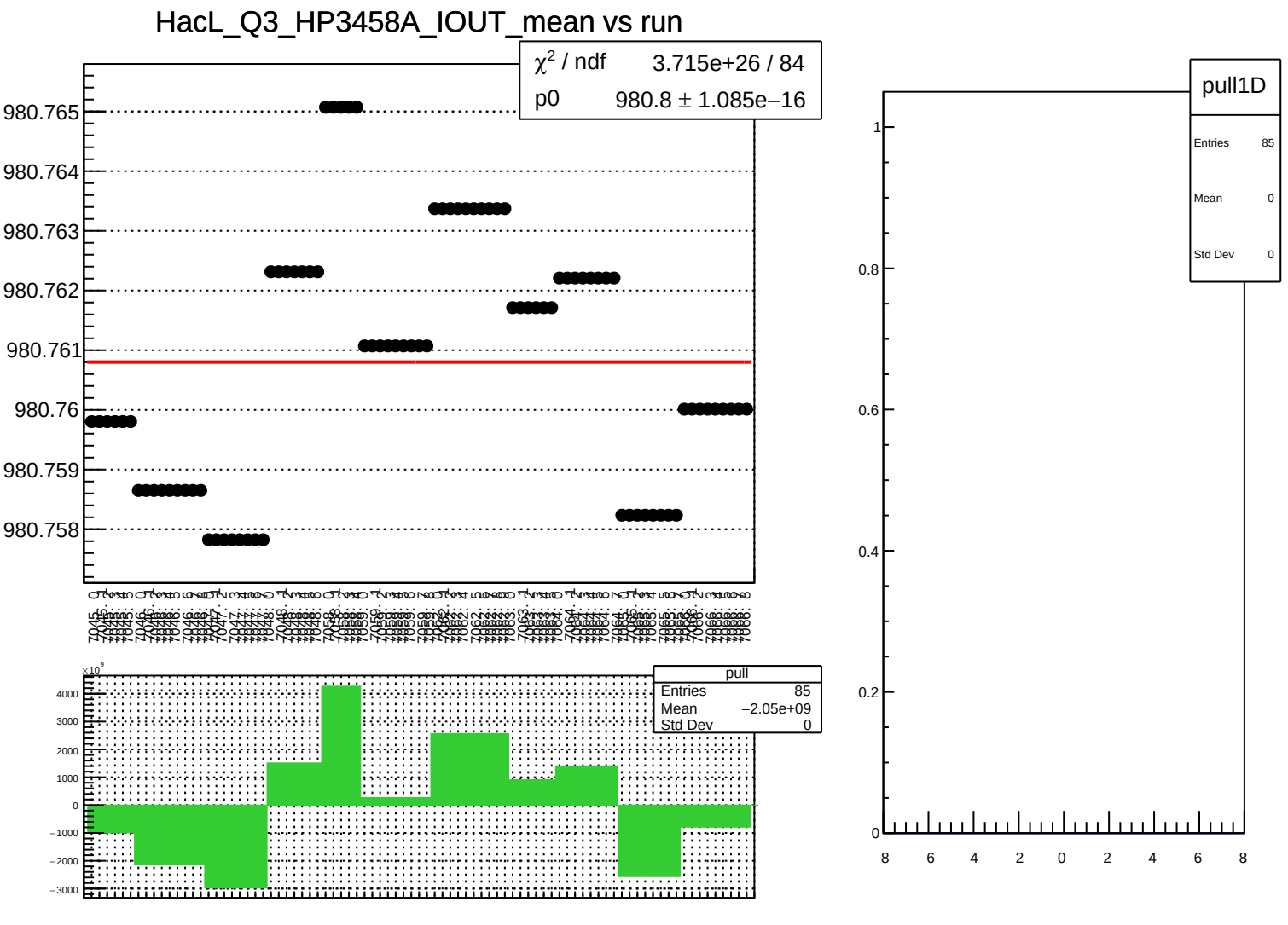

MQ171LM_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54


pull1D
Entries 85
Mean 0.02082
Std Dev 0

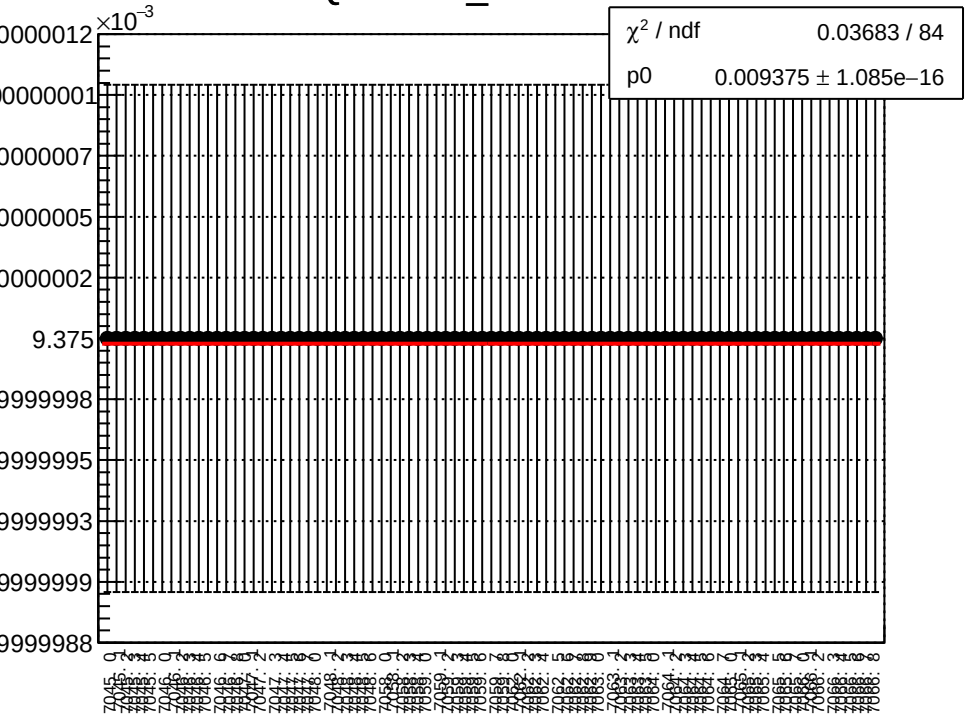

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.264e+29 / 84
p0 931.8 ± 1.085e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 85
Mean −1.763e+09
Std Dev 0
×10¹²
30
20
10
0
−10
−20
−30
−40
−50

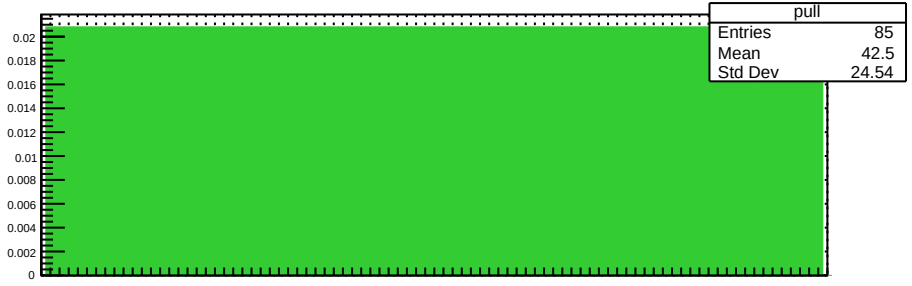

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

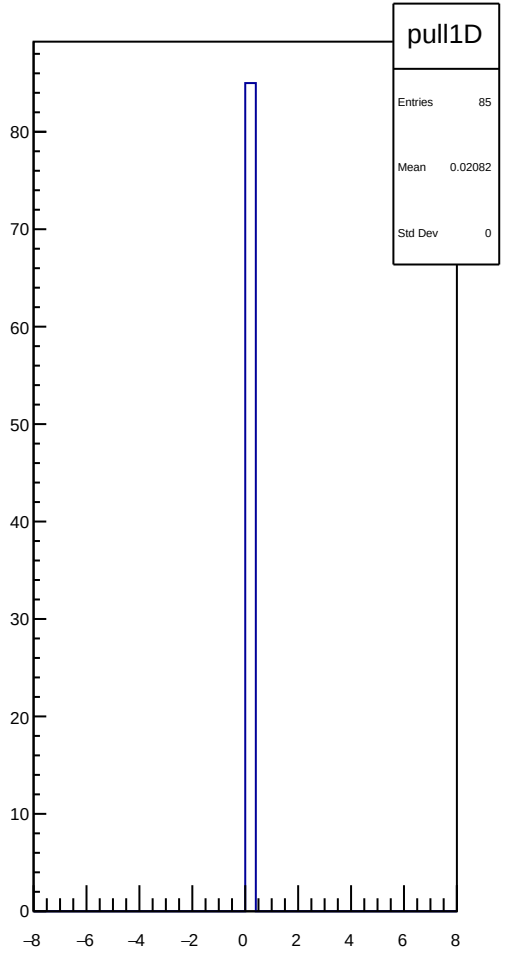

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.076e+26 / 84
p0 741.5 ± 1.085e−16
741.511
741.51
741.509
741.508
741.507
741.506
741.505
741.504
pull
Entries 85
Mean −6.461e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

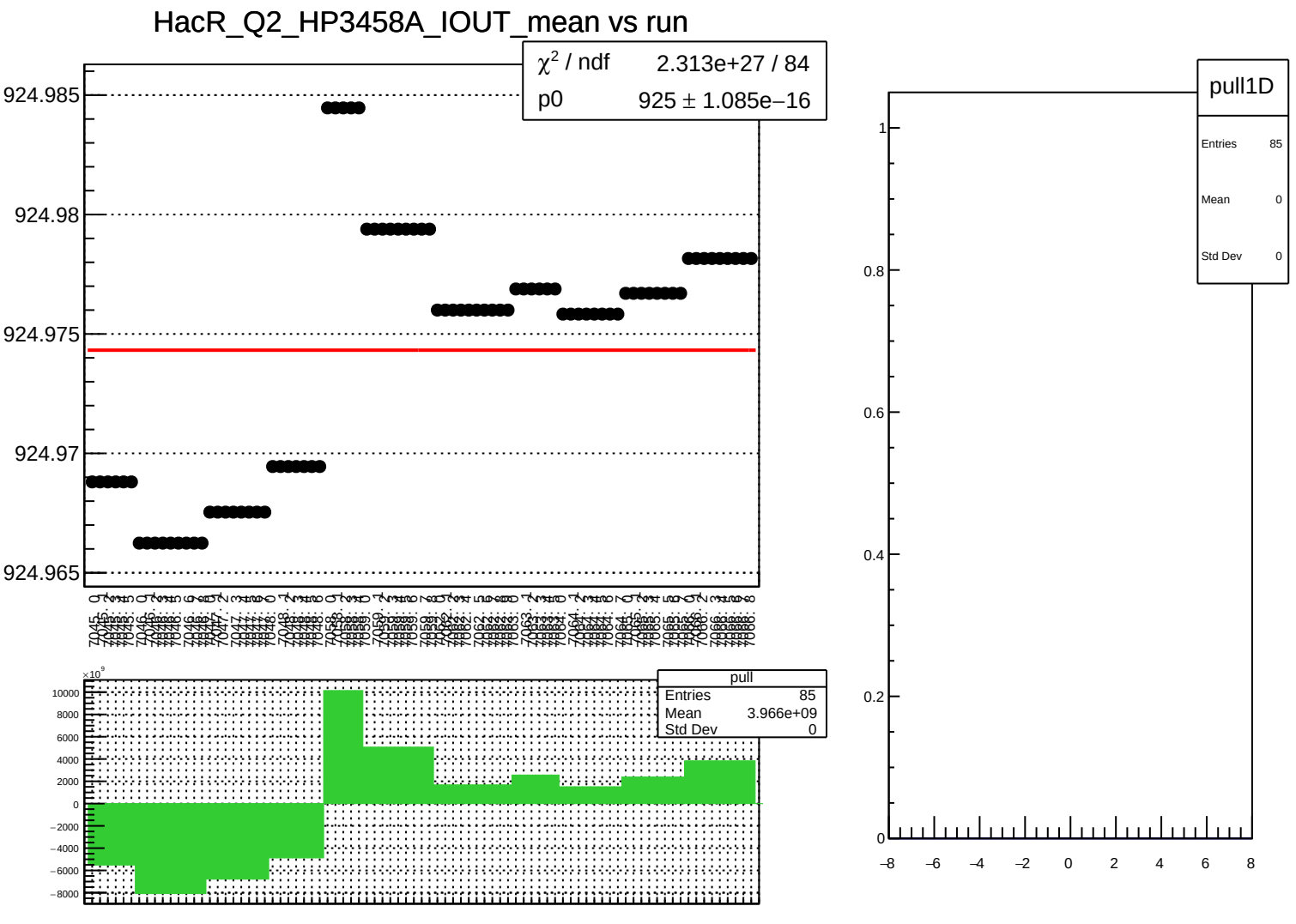

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.715e+26 / 84
p0 980.8 ± 1.085e−16
980.765
980.764
980.763
980.762
980.761
980.76
980.759
980.758
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −2.05e+09
Std Dev 0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

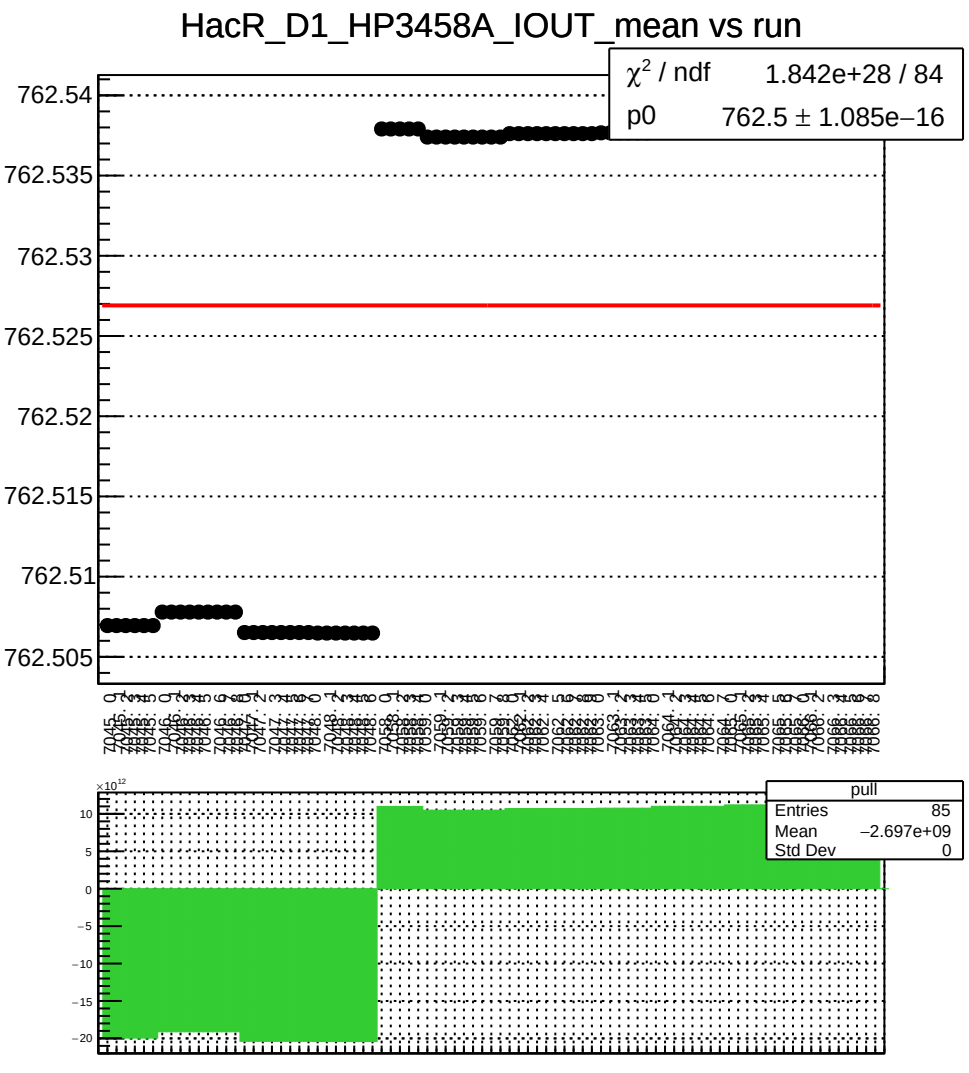
MQ172RM_mean vs run

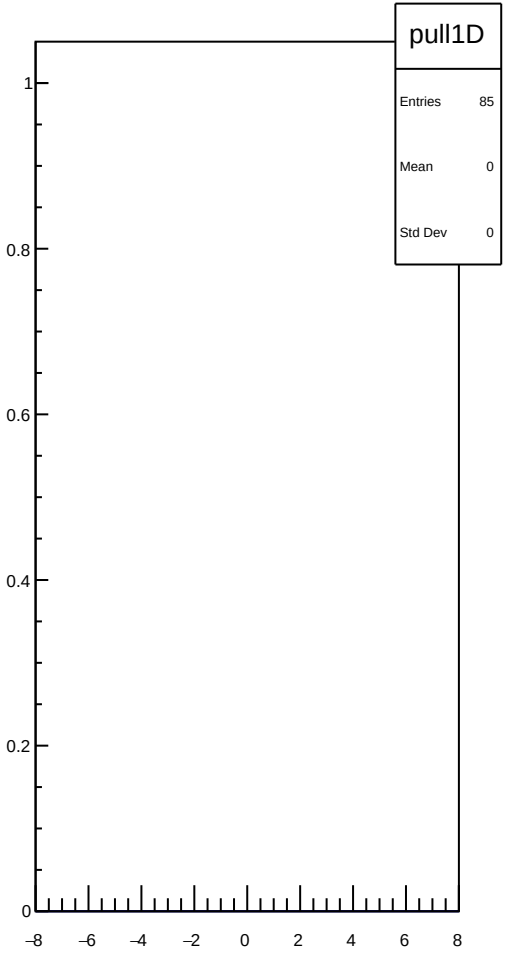


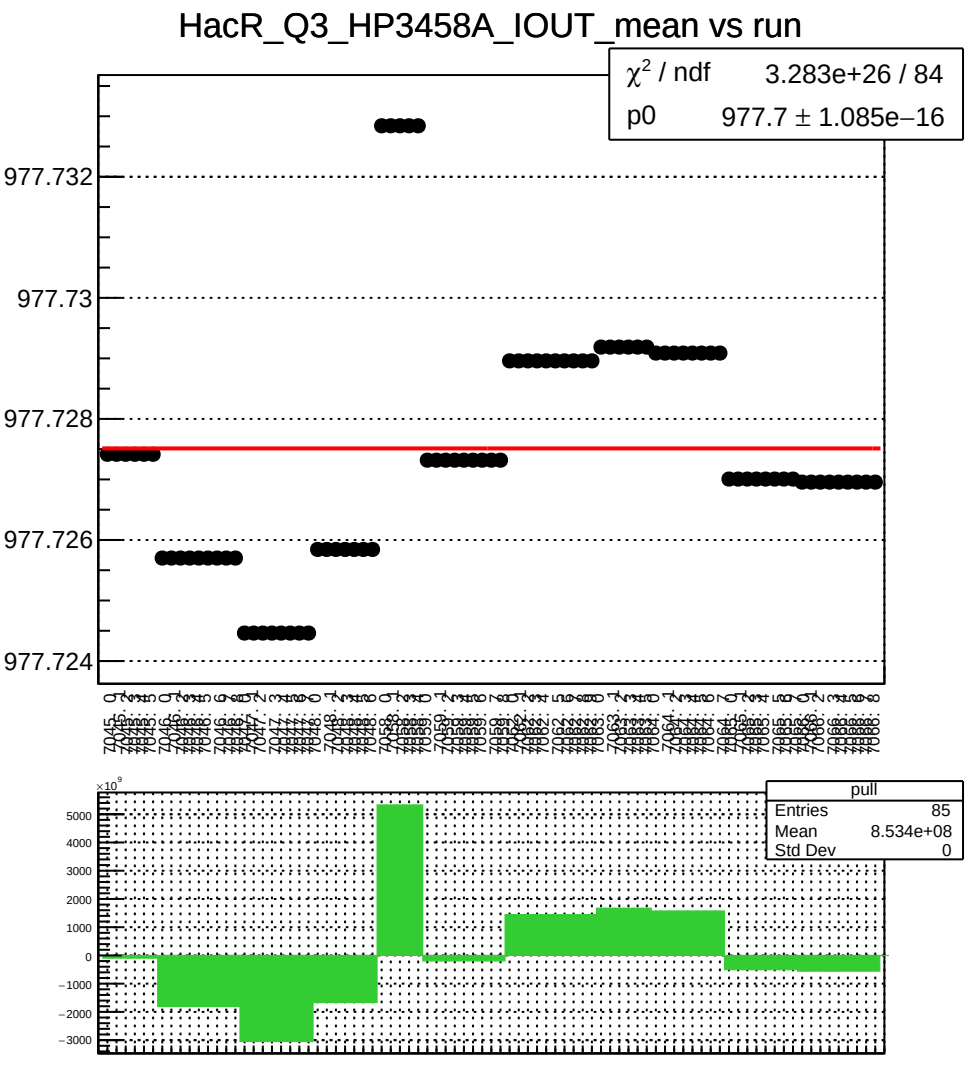


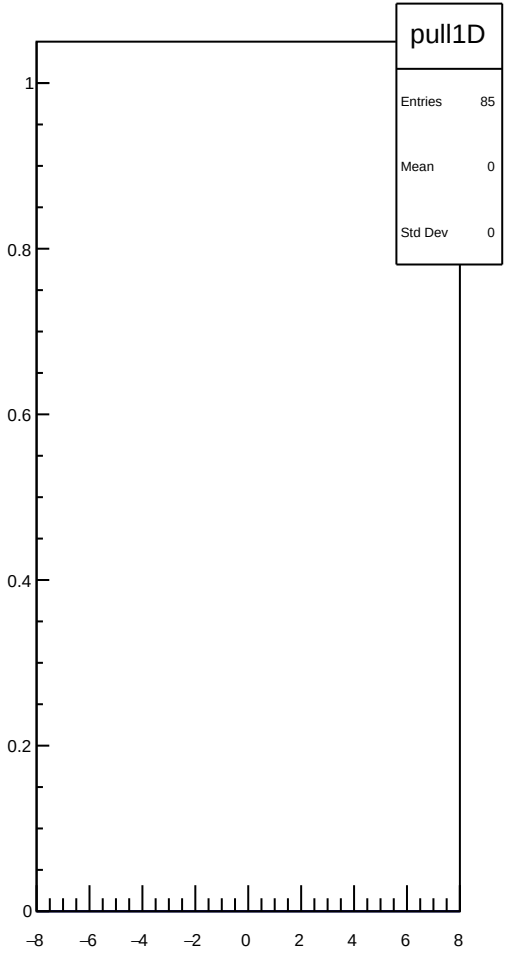


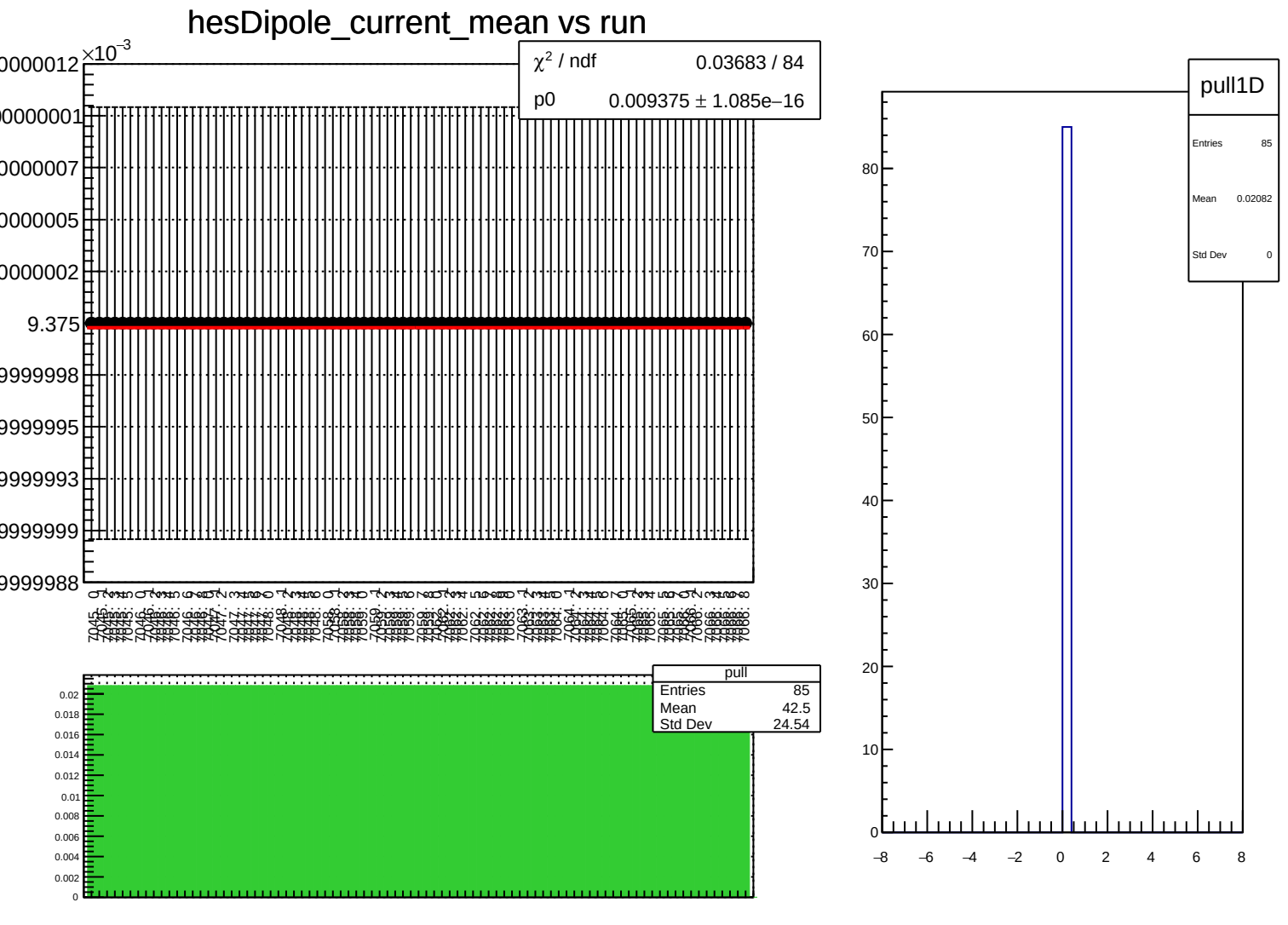

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.313e+27 / 84
p0 925 ± 1.085e−16
924.985
924.98
924.975
924.97
924.965
pull
Entries 85
Mean 3.966e+09
Std Dev 0
×10⁹
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

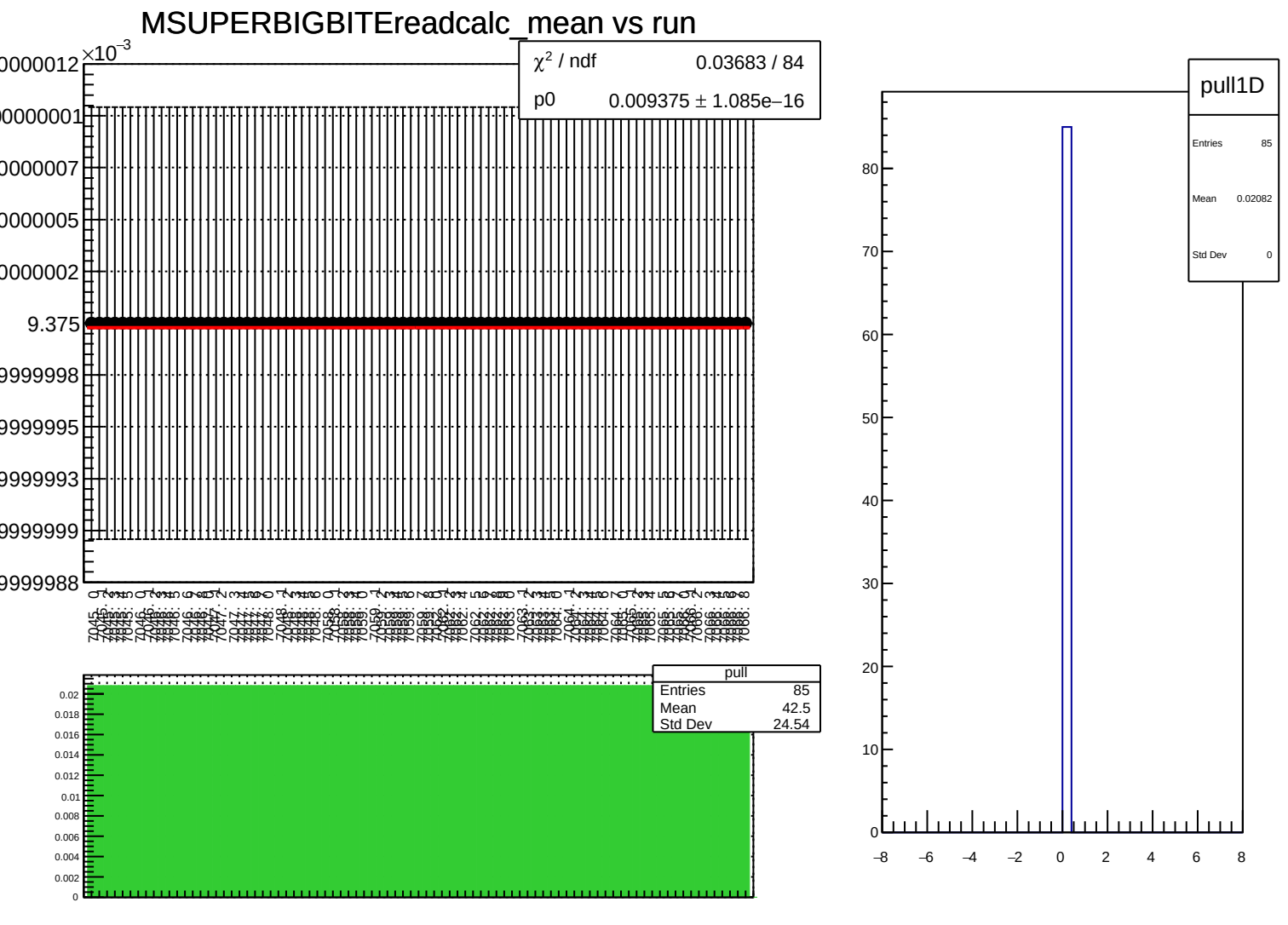

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.842e+28 / 84
p0 762.5 ± 1.085e−16
762.54
762.535
762.53
762.525
762.52
762.515
762.51
762.505
pull
Entries 85
Mean −2.697e+09
Std Dev 0
×10¹²
10
5
0
−5
−10
−15
−20

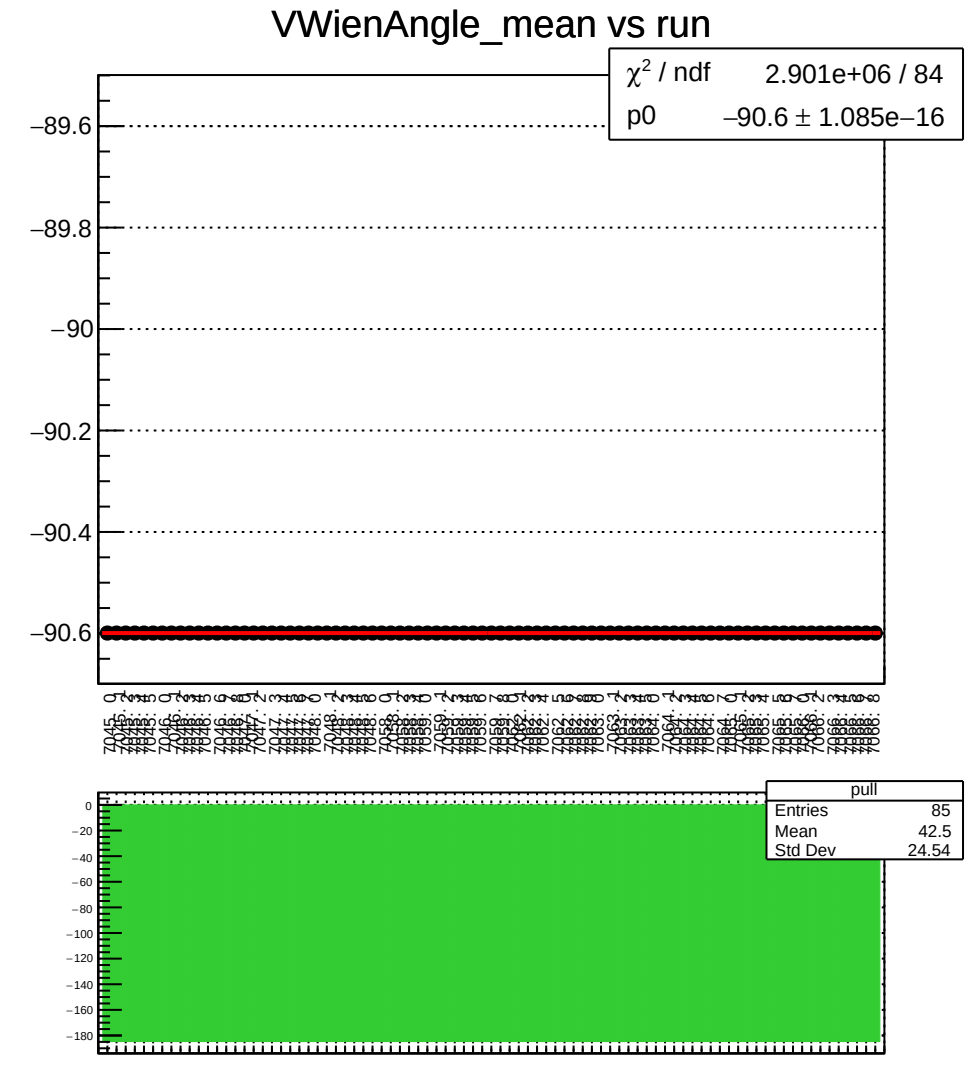

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

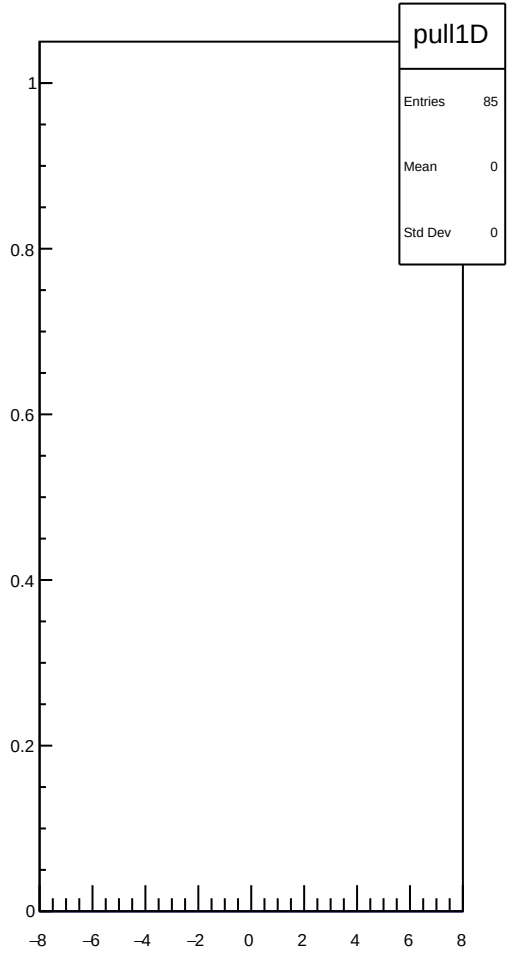

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.283e+26 / 84
p0 977.7 ± 1.085e−16
977.732
977.73
977.728
977.726
977.724
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 8.534e+08
Std Dev 0

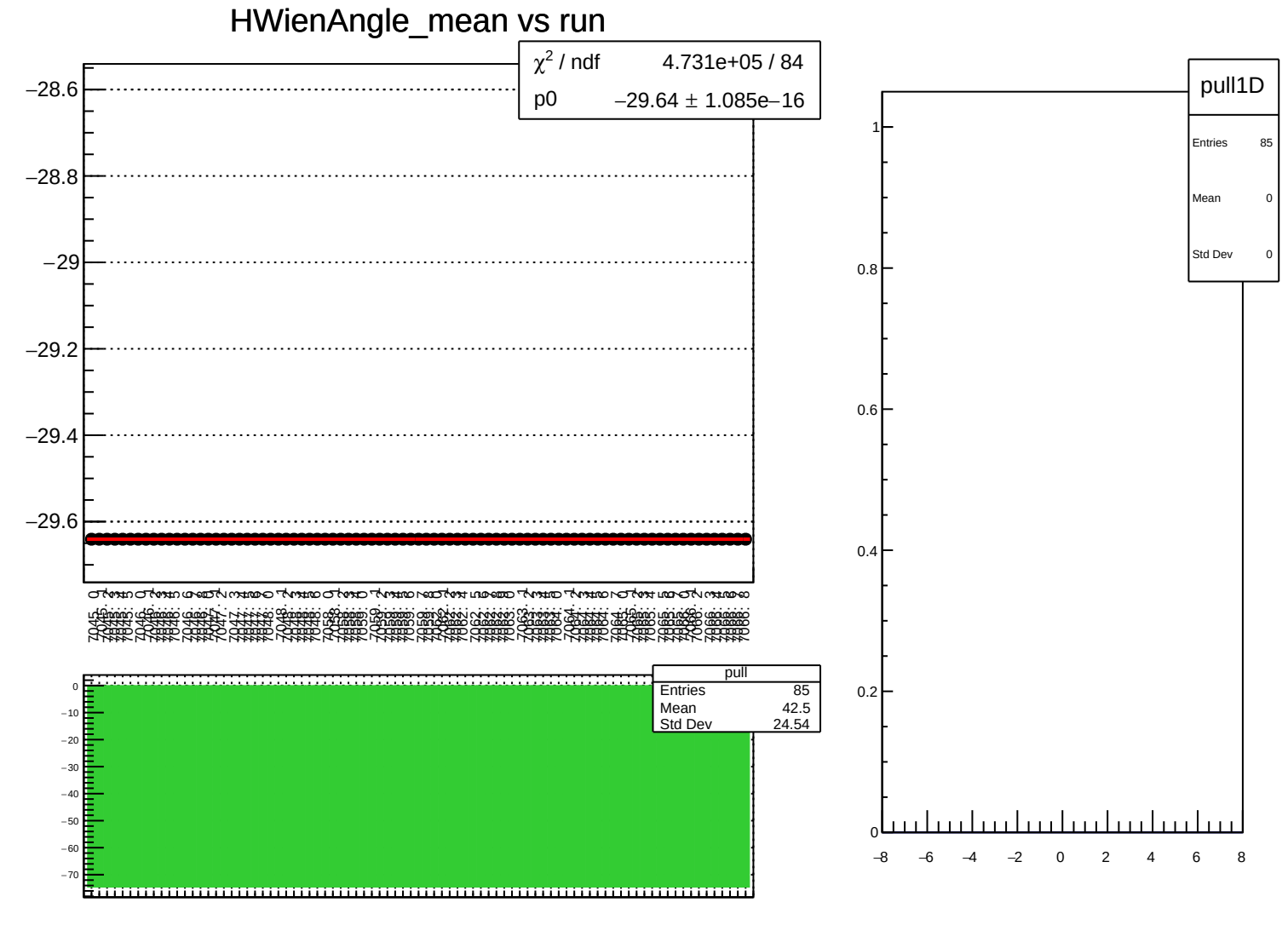

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

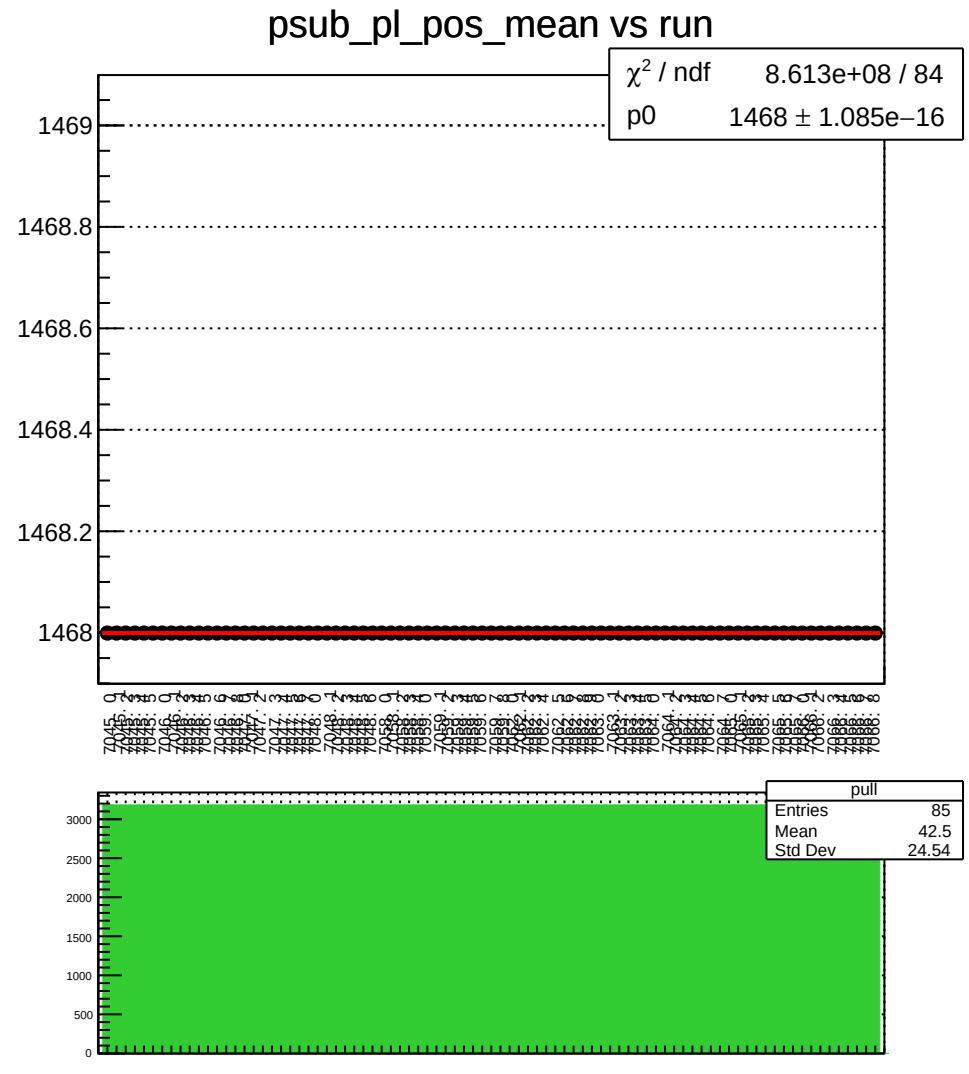

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0

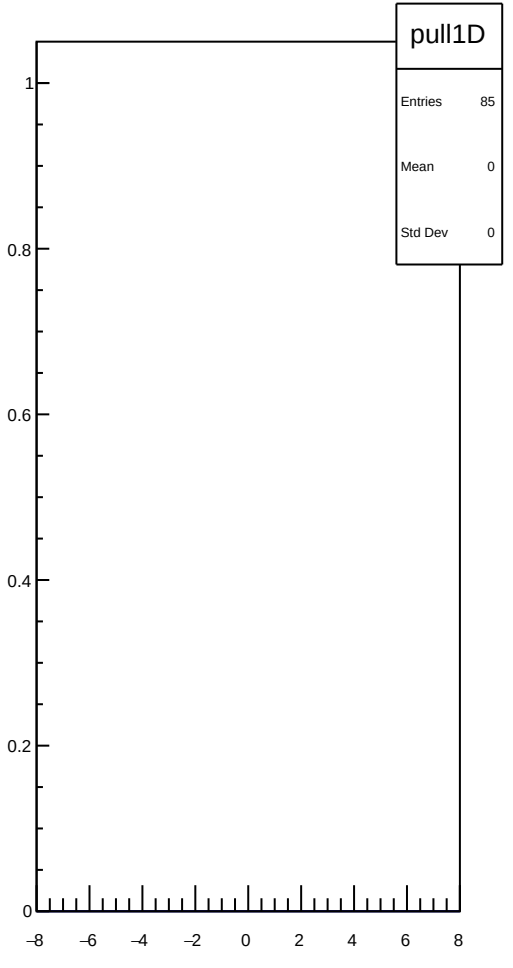

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0

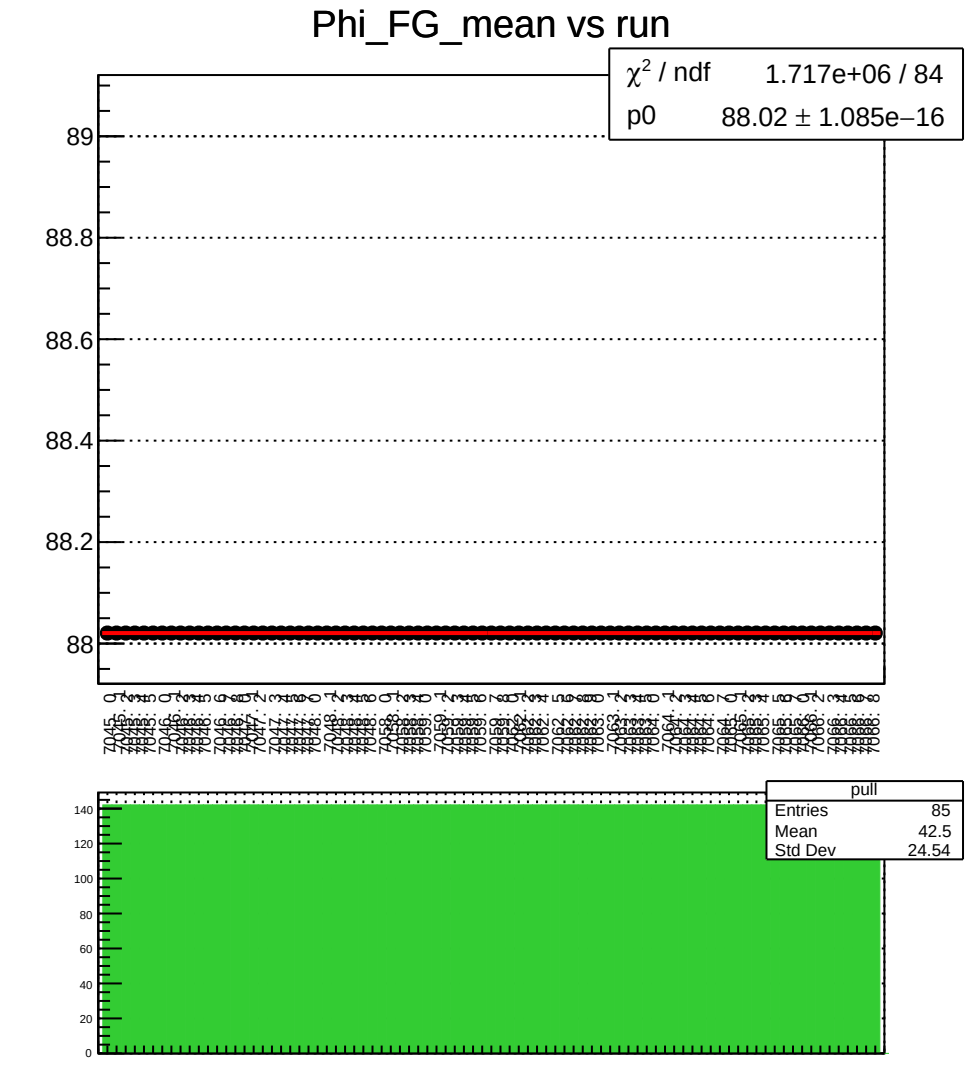

VWienAngle_mean vs run
χ² / ndf 2.901e+06 / 84
p0 −90.6 ± 1.085e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

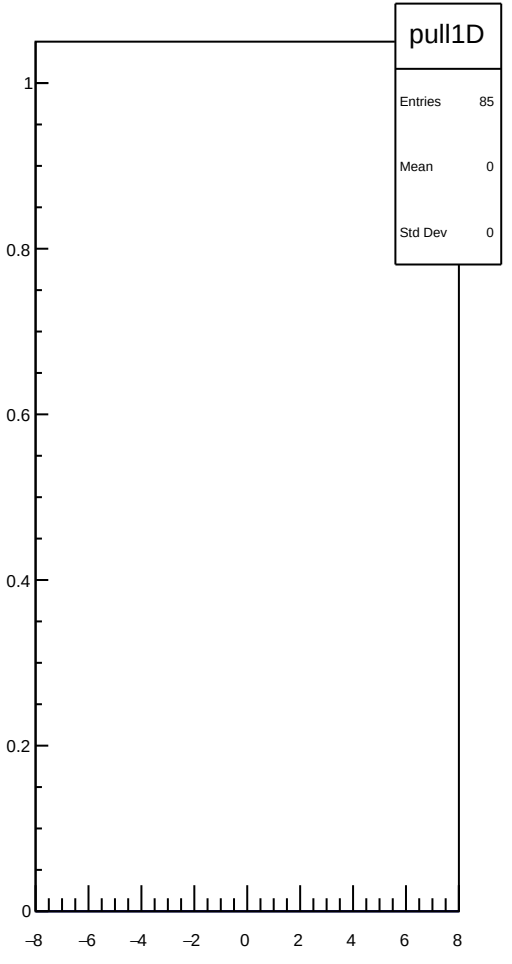

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

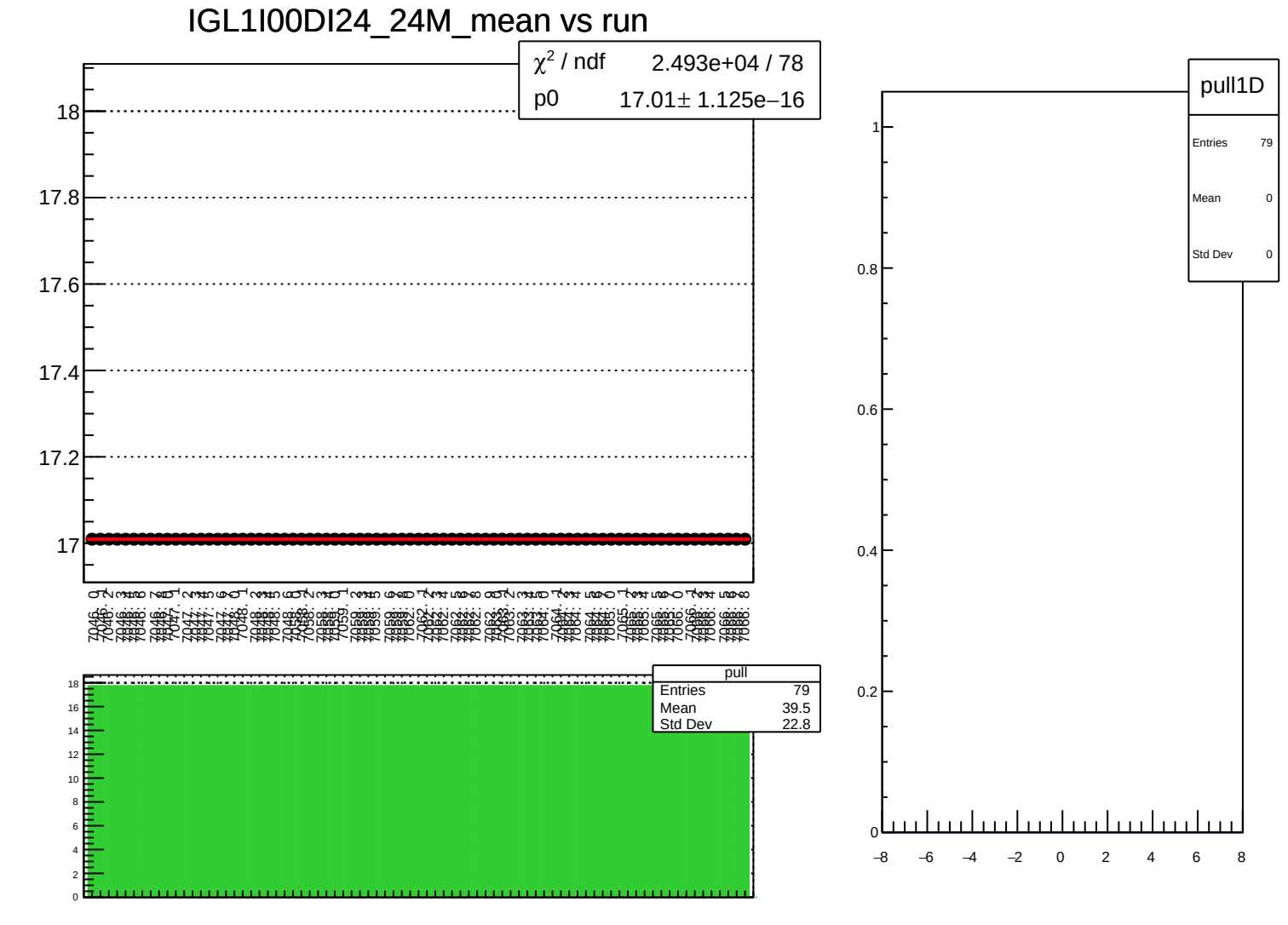

HWienAngle_mean vs run
χ² / ndf 4.731e+05 / 84
p0 −29.64 ± 1.085e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

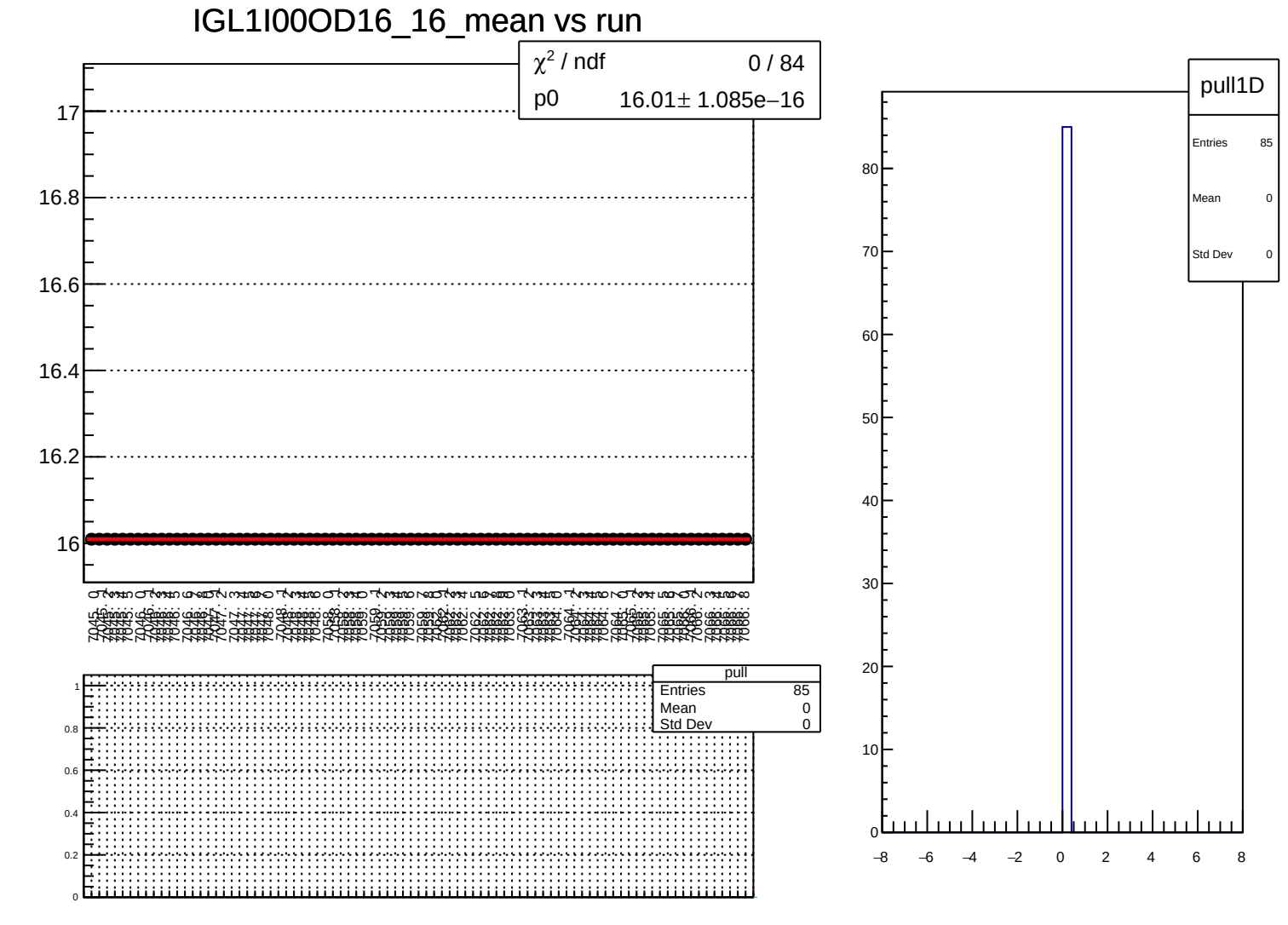

psub_pl_pos_mean vs run
χ² / ndf 8.613e+08 / 84
p0 1468 ± 1.085e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 85
Mean 42.5
Std Dev 24.54
3000
2500
2000
1500
1000
500
0

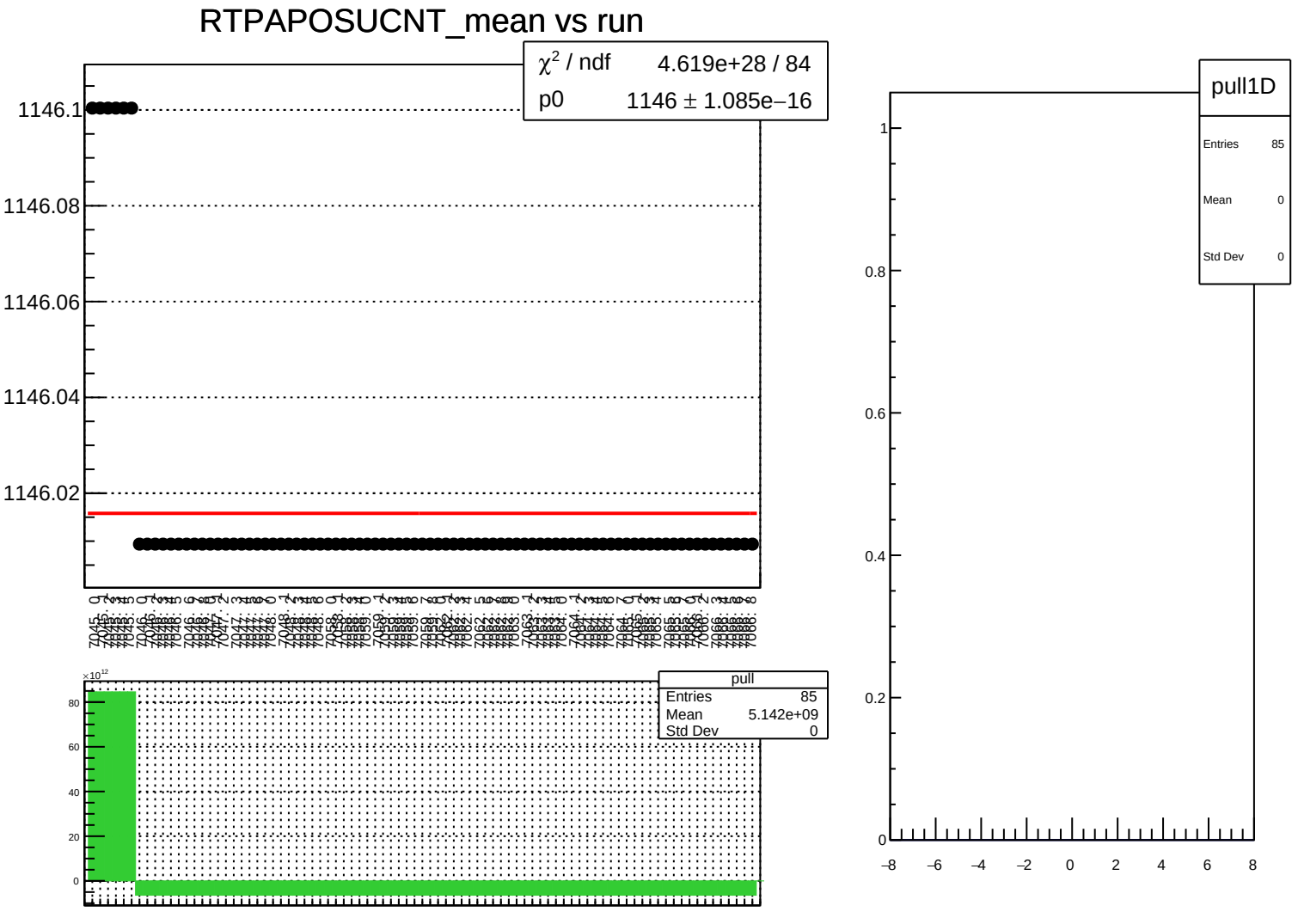

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

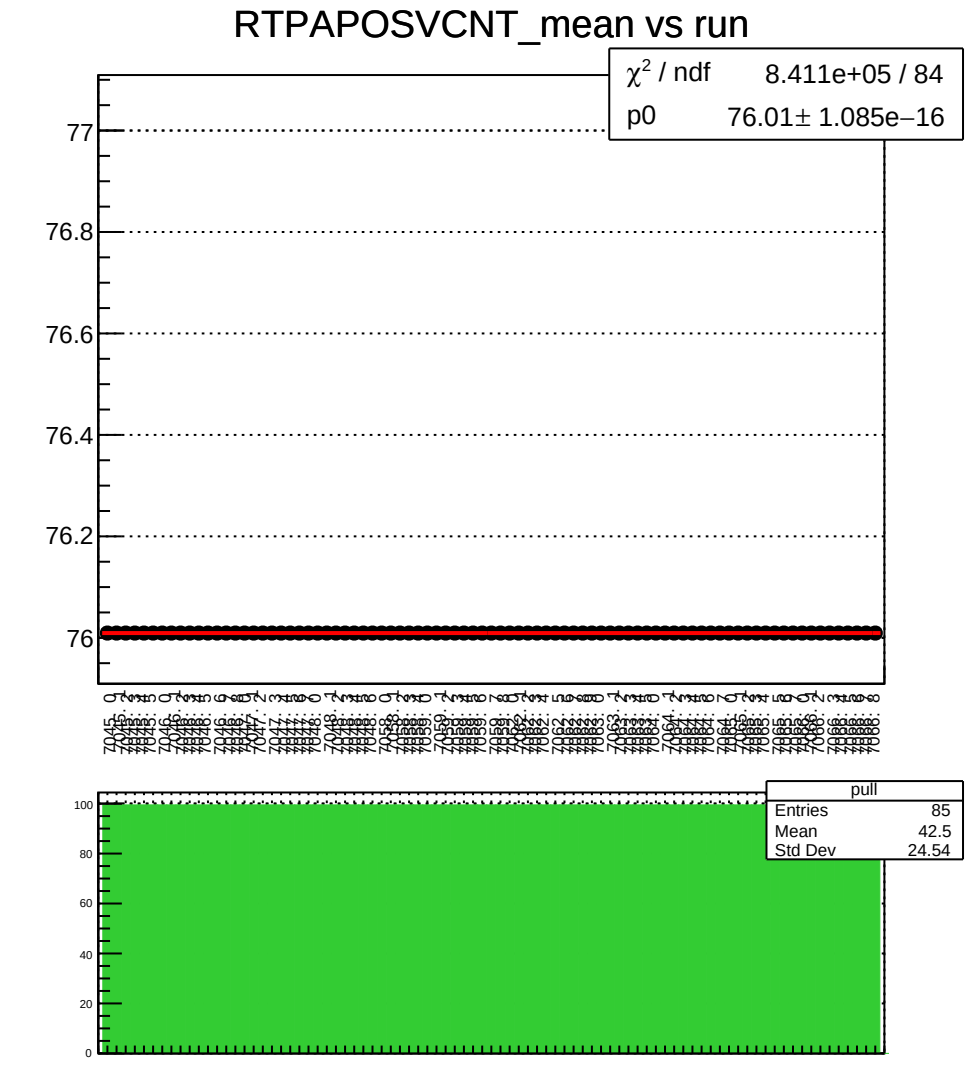

Phi_FG_mean vs run
χ² / ndf 1.717e+06 / 84
p0 88.02 ± 1.085e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 85
Mean 42.5
Std Dev 24.54
140
120
100
80
60
40
20
0

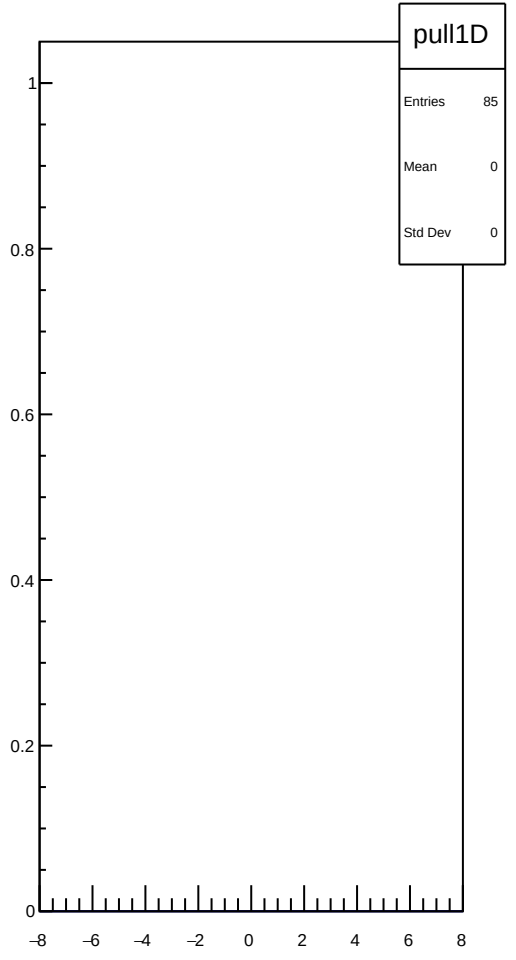

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

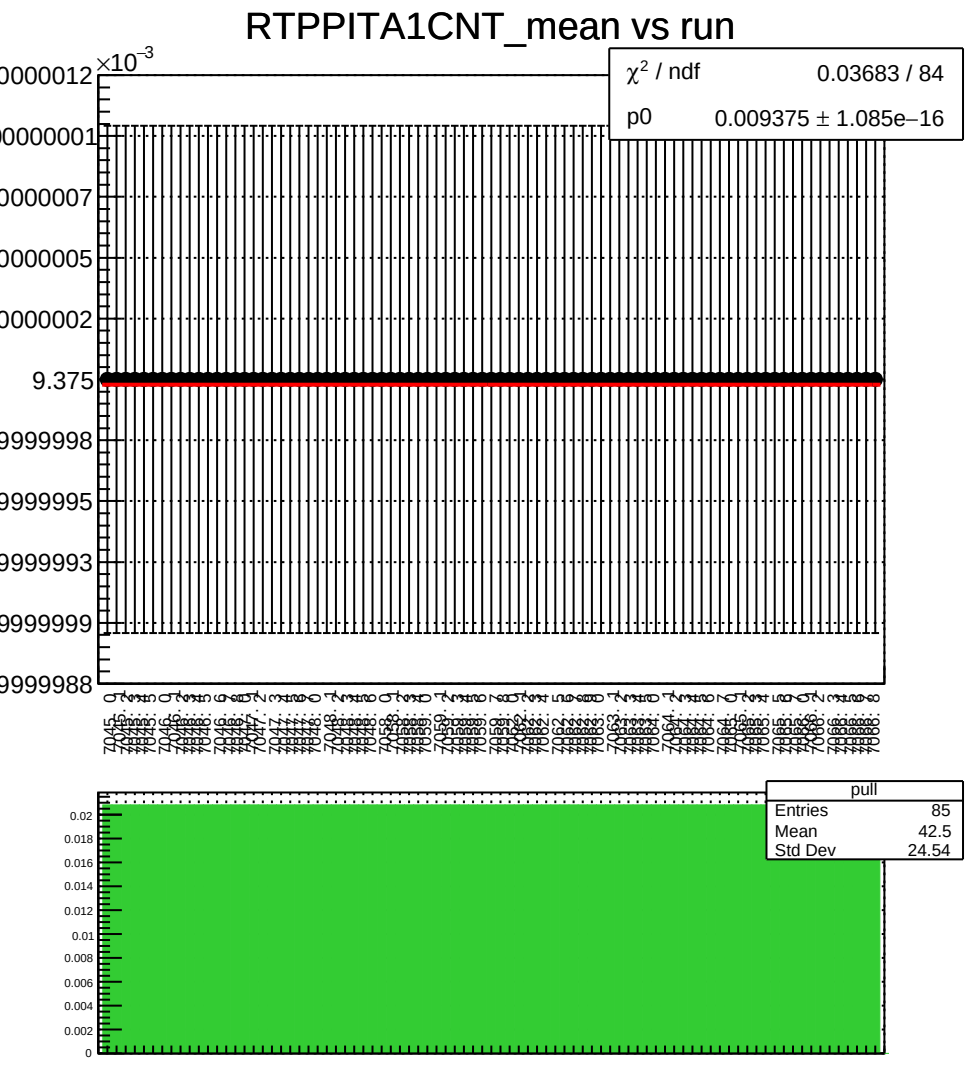

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.493e+04 / 78
p0 17.01± 1.125e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 79
Mean 39.5
Std Dev 22.8
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

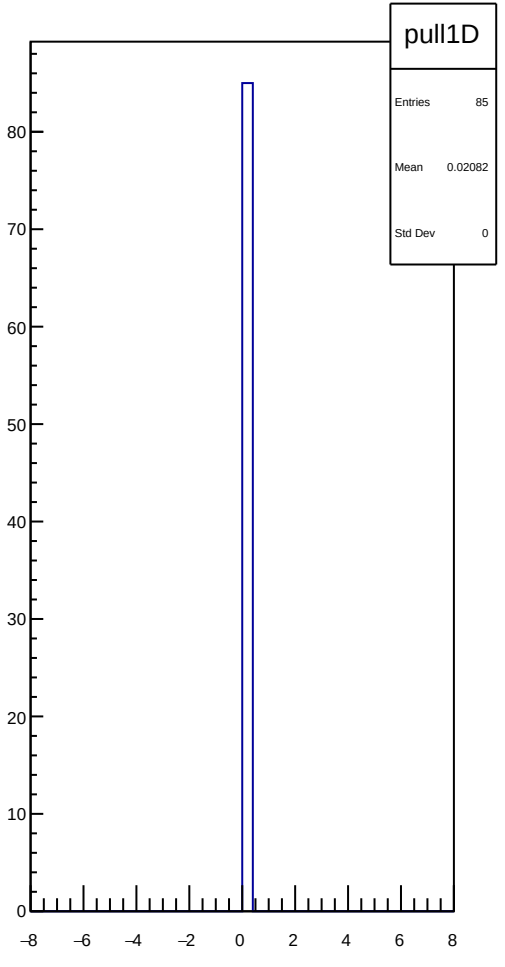

IGL1I00OD16_16_mean vs run
χ² / ndf 0 / 84
p0 16.01± 1.085e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 85
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

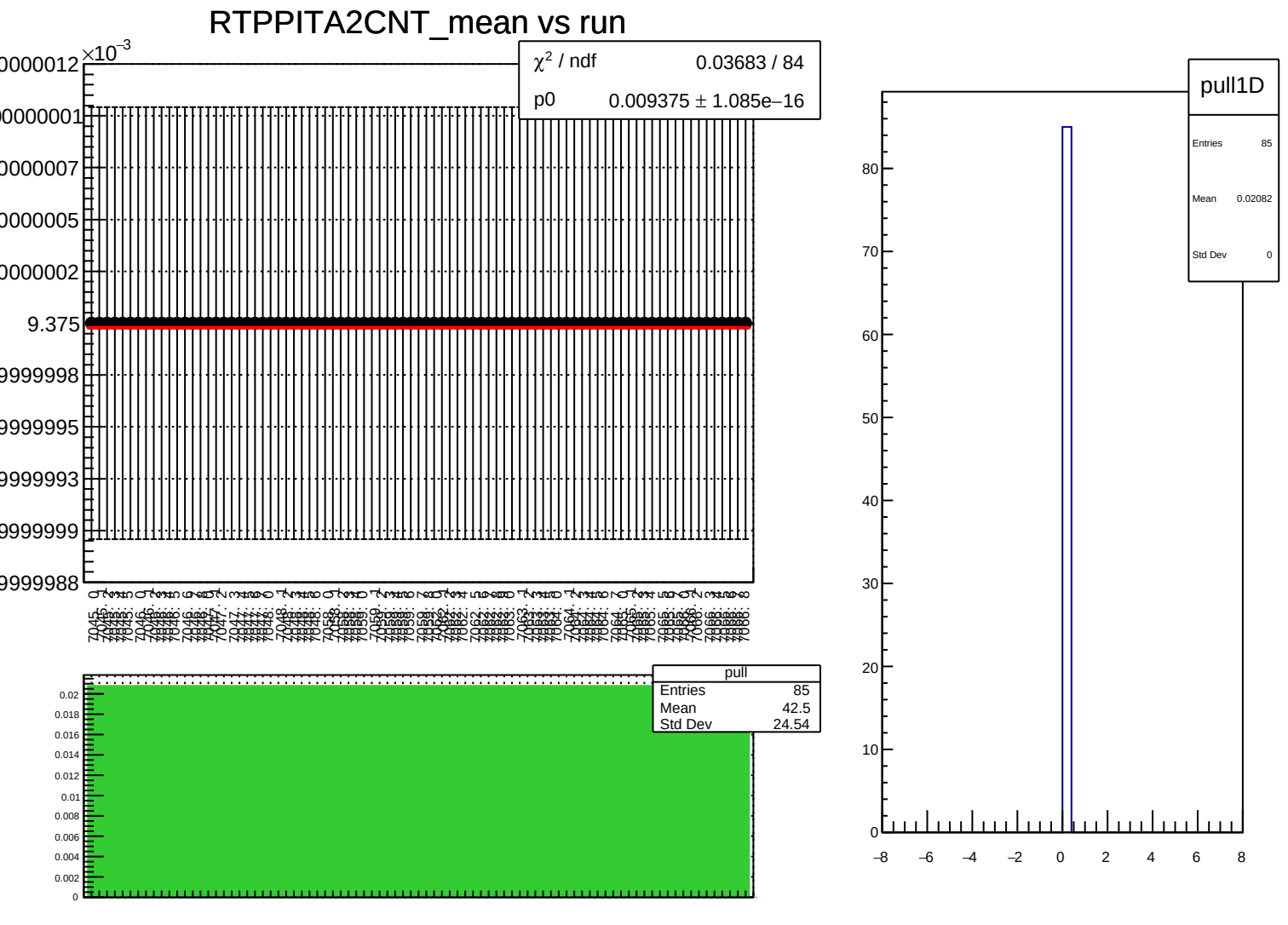

RTPAPOSUCNT_mean vs run
χ² / ndf 4.619e+28 / 84
p0 1146 ± 1.085e−16
1146.1
1146.08
1146.06
1146.04
1146.02
pull
Entries 85
Mean 5.142e+09
Std Dev 0
×10¹²
80
60
40
20
0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 8.411e+05 / 84
p0 76.01± 1.085e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 85
Mean 42.5
Std Dev 24.54
100
80
60
40
20
0


pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54


pull1D
Entries 85
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0